

# RECORD OF EVENTS

## School of Historical Studies

### ANCIENT STUDIES ACTIVITIES

October 6

Ancient Studies Seminar + *From the social and cultural construction of emotion to the emotional construction of society and culture: Angry generals, hopeful cities, affectionate slaves, and more* + **Angelos Chaniotis**, Professor, School of Historical Studies

October 20

Ancient Studies Seminar + *The Athenian democratic revolution and the politics of memory* + **Alex Gottesman**, Temple University

November 3

Ancient Studies Seminar + *Realism of the humble and of the grand in Euripides' Electra* + **Marco Fantuzzi**, University of Roehampton

November 10

Ancient Studies Seminar + *Making law in the Early Empire* + **Michael Peachin**, New York University; Member, School of Historical Studies

December 1

Ancient Studies Seminar + *Dance as history in the Roman provinces* + **Felipe Rojas**, Brown University

December 8

Ancient Studies Seminar + *Painting and sculpture on the expedition of Alexander the Great* + **Dee Clayman**, The City University of New York; Member, School of Historical Studies

February 2

Ancient Studies Seminar + *Seven-gated Thebes, the Seven against Thebes, and Mesopotamian Myth and Ritual* + **Vaios Liappis**, Open University of Cyprus

February 16

Ancient Studies Seminar + *Prometheus Bound and emotional narratology: tyranny, violence, and fear at display* + **Anton Bierl**, University of Basel

February 23

Ancient Studies Seminar + *Constitutional innovation during the Second Punic War (218–201 B.C.E.): some unintended consequences* + **Frederik Vervaet**, The University of Melbourne

March 5

Epigraphic Friday, Day 1 + *IG II/III<sup>2</sup> 1498 and the amalgamation of the two boards of ταμίαι 406 B.C.* + **Sebastian Prignitz**, Austrian Academy of Sciences, Vienna + *Inscription from the theater of Dionysos* + **Paraskevi Martzavou**, Columbia University + *Status and property in*

*third-century Athens* + **Ilias Arnaoutoglou**, Academy of Athens + *The lease inscription of the Klytidai, Chios, SEG XXII 508* + **Georgia Malouchou**, Archaeological Society at Athens; Member, School of Historical Studies + *The reuse of Classical monuments and inscriptions in Roman Athens* + **Muriel Moser-Gerber**, Goethe-University Frankfurt + *Was Decius (249–251 A.D.) a persecutor of the Christians?* + **Hartwin Brandt**, University of Bamberg + *Further Light on the urban prefecture: new and rediscovered tesserae* + **Michael Kulikowski**, Pennsylvania State University + *Sabaean inscriptions from Northern Somalia* + **Christian Robin**, French National Centre for Scientific Research + *Epigrams from Kos and Prousius ad Hypium* + **Angelos Chaniotis**, Professor, School of Historical Studies

March 6

Epigraphic Friday, Day 2 + *An economic scandal and other affairs in Orchomenos at the end of the 3rd century B.C.* + **Yannis Kalliontzis**, Inscriptiones Graecae, Berlin-Brandenburgische Akademie der Wissenschaften; Member, School of Historical Studies + *A new inscription from Mt. Lykaion* + **David Romano**, The University of Arizona + *New inscriptions from Euromos* + **Anne-Valérie Pont**, Paris-Sorbonne University + *A puzzling epistolary exchange from Euromos* + **Marc Domingo Gyax**, Princeton University + *Water for the city again. An update on the edict of the proconsul of Asia to Laodikeia on the Lykos (114/115 CE)* + **Francesco Guizzi**, Sapienza University of Rome + *A re-edition of the so-called Pitane-Mytilene Dossier from Pergamon (I.Pergamon I 245)* + **Julian Schneider**, University of Vienna

March 2

Ancient Studies Seminar + *Πάνθειος, Deus Pantheus, πάνθειον, signum pantheum: a contribution to the religious vocabulary of the Imperial period* + **Angelos Chaniotis**, Professor, School of Historical Studies

March 23

Ancient Studies Seminar + *Society and economy in Roman Boeotia: an unpublished Inscription from Coronea* + **Yannis Kalliontzis**, Inscriptiones Graecae, Berlin-Brandenburgische Akademie der Wissenschaften; Member, School of Historical Studies and **Nikos Papazarkadas**, University of California, Berkeley

April 13

Ancient Studies Seminar + *What did the Romans want from their law?* + **Michael Peachin**, New York University; Member, School of Historical Studies

## ART HISTORY ACTIVITIES

October 14

Art History Seminar + *Vkhutemas and the Pedagogy of Space* + **Anna Bokov**, Cooper Union; Member, School of Historical Studies

October 21

Art History Seminar + *Concerning the Spiritual, and the Concrete, in Kandinsky's Art* + **Lisa Florman**, Ohio State University; Past Member, School of Historical Studies

October 28

Art History Seminar + *On Treaties of Modern Architecture in Soviet Russia: Survival of Constructivist Principles under Stalin* + **Anna Bokov**, Cooper Union; Member, School of Historical Studies

November 11

Art History Seminar + *Gendering Artistic Culture in the Tuscan Grand Duchy* + **Morten Hansen**, Accademia di Danimarca; Member, School of Historical Studies

November 18

Art History Seminar + Group discussion of Panovsky's Habilitationschrift

December 9

Art History Seminar + *Leonardo da Vinci's Observational Mechanics* + **Pamela Long**, Independent Scholar; Member, School of Historical Studies

December 16

Art History Seminar + *Unmaking Roman Architecture* + **John Hopkins**, New York University; Member, School of Historical Studies

January 14

Art History Seminar + *Arriving by Rail: Mudéjar Revival in the Public Architecture of early 20th Century Spain* + **Olga Bush**, Vassar College; Member, School of Historical Studies

February 10

Art History Seminar + *On Robert Klein and Scholarly Vitae* + **Yve-Alain Bois**, Professor, School of Historical Studies

February 17

Art History Seminar + *Presentation on the book Object Biographies (Menil Collection)* + **John Hopkins**, New York University; Member, School of Historical Studies

February 24

Art History Seminar + *Mobilizing the Cult Image: Andrea del Sarto's Vallombrosa Altarpiece* + **Morten Hansen**, Accademia di Danimarca; Member, School of Historical Studies

March 10

Art History Seminar + Group discussion led by **John Hopkins** on the issue of race in art history (and in classical studies in particular)

March 17

Art History Seminar + *Counter-monuments in the Early Modern Netherlands* + **Marisa Bass**, Yale University; Past Member, School of Historical Studies

March 24

Art History Seminar + *Painting as process in the early medieval Islamic world* + **Margaret Graves**, Indiana University; Past Member, School of Historical Studies)

March 31

Art History Seminar + *Elements of Spatial Composition: Modernism and Socialist Realism at Vkhutemas and Academy of Architecture, 1927–1937* + **Anna Bokov**, Cooper Union; Member, School of Historical Studies

April 5

Art History Seminar + *On the issue of forgery (in Chinese art in particular)* + **Julia Orell**, University of British Columbia; Member, School of Historical Studies

April 28

Art History Seminar + *Zlotnikov's Doubt* + **Jane Sharp**, Rutgers, The State University of New Jersey

## EARLY MODERN EUROPE ACTIVITIES

October 13

Early Modern Europe Seminar + *On Knowledge-Gathering, Language, and History Writing in the Spanish Empire* + **Valeria López-Fadul**, Wesleyan University; Member, School of Historical Studies

October 27

Early Modern Europe Seminar + *Englishmen at Sea: Labor and the Nation at the Dawn of Empire, 1570–1630 (Chapter: A Plundering People)* + **Eleanor Hubbard**, Princeton University; Member, School of Historical Studies

November 10

Early Modern Europe Seminar + *Tiber River Flooding in Rome: Responses to a Recurring Disaster, 1476–1598* + **Pamela O. Long**, Member, School of Historical Studies

November 24

Early Modern Europe Seminar + *Gods of Paste: Sacrifice and the Anthropology of Error* + **Jonathan Sheehan**, University of California, Berkeley; Member, School of Historical Studies

December 1

Early Modern Europe Seminar + *Hajj between Empires: Muslim Pilgrimage and Political Culture after the Mughals (Chapter 1: Pilgrim Passages)* + **Rishad Choudhury**, Oberlin College; Member, School of Historical Studies

January 19

Early Modern Europe Seminar + *Translating Ethiopian Sanctity: Two Pilgrims in Pisa, 1516* + **Samantha Kelly**, Rutgers, The State University of New Jersey; Member, School of Historical Studies

February 2

Early Modern Europe Seminar + *Reawakening the Ammonites: A Biography of an Extinct Lineage* + **Jeremy R. Schneider**, Princeton University

February 16

Early Modern Europe Seminar + *Ethnography of the Commons* + **Angelo Torre**, Università del Piemonte Orientale

March 2

Early Modern Europe Seminar + *The Etymologies of Phillip II* + **Valeria López-Fadul**, Wesleyan University; Member, School of Historical Studies

March 16

Early Modern Europe Seminar + *Corcos and Boncompagni: The Costs and Benefits of Religious Conversion in Sixteenth-Century Rome* + **Isabelle Poutrin**, Université de Reims Champagne-Ardenne; Member, School of Historical Studies

March 30

Early Modern Europe Seminar + *French Merchant Capitalism, State Reform, and Science of Commerce in the Age of Enlightenment* + **Arnaud Orain**, Université Paris 8 Vincennes-Saint-Denis; Member, School of Historical Studies

April 13

Early Modern Europe Seminar + *What Differences Make a Difference? Global History and Microanalysis Revisited* + **Francesca Trivellato**, Professor, School of Historical Studies

April 27

Early Modern Europe Seminar + *The Loving Attention Towards the Poor: Jurisdiction and Market Rules (the Savoyard State in the 18th Century)* + **Simona Cerutti**, École des Hautes Études en Sciences Sociales, Paris; Member, School of Historical Studies

May 11

Early Modern Europe Seminar + *Curiosity and Compulsion: The Reformations of an Elizabethan Seaman* + **Eleanor Hubbard**, Princeton University; Member, School of Historical Studies

## EAST ASIAN STUDIES ACTIVITIES

October 5

East Asian Seminar + *Growing Empire in the Age of the Nation-State: From the American West to the Chinese Borderlands* + **Shellen Wu**, University of Tennessee; Member, School of Historical Studies

October 19

East Asian Seminar + *Indian Ascetics in a Chinese Manichaean Painting* + **Gabor Kosa**, Eötvös Loránd University; Member, School of Historical Studies

November 2

East Asian Seminar + *Animal Style and Its Visual Tropes: New Perspectives on Iron-Age Portable Ornament from the Eurasian Steppes* + **Petya Andreeva**, Parsons School of Design, The New School

November 16

East Asian Seminar + *Preserve to Erase: Architectural Heritage in Shanghai, 1949–2015* + **Lena Maria Scheen**, NYU-Shanghai

November 30

East Asian Seminar + *Instrument of Flesh: The Operatic Voice in Late Ming and Early Qing Musical Culture* + **Judith Zeitlin**, University of Chicago

December 7

East Asian Seminar + *Transitional Justice in Post-Mao China and Its Aftereffects: A Case from Shanghai* + **Qin Shao**, The College of New Jersey

December 14

East Asian Seminar + *The Liao Dynasty in Light of Recent Archaeological Finds* + **François Louis**, Bard Graduate Center

January 25

East Asian Seminar + *The Beginning of a Reading Tradition: Encyclopedic Learning in 1499 Hongzhi “Xixiang ji”* + **Xiaoqiao Ling**, Arizona State University; Member, School of Historical Studies

February 8

East Asian Seminar + *Cartographic Perspectives in Song Dynasty Painting* + **Julia Orell**, University of British Columbia; Member, School of Historical Studies

February 22

East Asian Seminar + *Samurai and the World of Painting, East and West—The Life Experiences of Odano Naotake (1750–80) and Kakizaki Hakyō (1764–1826)* + **Constantine Vaporis**, University of Maryland-Baltimore County; Member, School of Historical Studies

### March 1

East Asian Seminar + *Japanese Peripheries and Cultural Centers—The Samurai Kakizaki Hakyō (1764–1826) and his Ainu Chieftain Paintings* + **Constantine Vaporis**, University of Maryland–Baltimore County; Member, School of Historical Studies

### March 15

East Asian Seminar + *Philology of the Strange: Evidential Learning and Commentary on Liaozhai zhiyi in the Nineteenth Century* + **Nathan Vedal**, Washington University in St. Louis; Member, School of Historical Studies

### March 22

East Asian Seminar + *Transmission and Transitions of Tang Literature* + **Anna Shields**, Princeton University

### March 29

East Asian Seminar + *Knowing Exotica: Edible Birds' Nests in Early Modern China* + **Meng Zhang**, Loyola Marymount University; Member, School of Historical Studies

### April 5

East Asian Seminar + *The Disquieting History of Foreign Enslavement in Medieval China* + **Don Wyatt**, Middlebury College

## MEDIEVAL STUDIES ACTIVITIES

### October 1

Medieval Studies Seminar + *The Global Turn in Medieval Studies* + **Suzanne Conklin Akbari**, Professor, School of Historical Studies

### October 15

Medieval Studies Seminar + *Byzantine Studies in the Global Turn* + **Andrea Achi**, Metropolitan Museum of Art

### October 22

Medieval Studies Seminar + *Iberian Mediterranean Studies* + **Nahir Otaño Gracia**, Member, School of Historical Studies

### November 12

Medieval Studies Seminar + *The Historiography of Premodern Sign Languages* + **Jonathan Hsy**, Member, School of Historical Studies

### December 3

Medieval Studies Seminar + *Indigenous Studies and Medieval Studies (Andrews and Beechy, Indigenous Futures and Medieval Past)* + **Suzanne Conklin Akbari**, Professor, School of Historical Studies

### December 4

Digital Scholarship Conversations + *The Book and the Silk Roads: Corraling Data in the Digital Workspace* (<https://www.ias.edu/video/book-and-silk-roads-corralling-data-digital-workspace>) + **Suzanne Conklin Akbari**,

Professor, School of Historical Studies, with **Rachel Di Cresce**, **Jessica Lockhart**, and **James Sargan** (University of Toronto, “Old Books, New Science” lab)

### December 10

Medieval Studies Seminar + *Global History* + **Celia Chazelle**, The College of New Jersey

### January 19

Medieval Studies Seminar + *Translating Ethiopian Sanctity: Two Pilgrims in Pisa, 1516* + **Samantha Kelly**, Member, School of Historical Studies, jointly with Early Modern Studies

### February 11

Medieval Studies Seminar + *Balaam's Ass: Vernacular Theology Before the English Reformation* + **Nicholas Watson**, Member, School of Historical Studies

### February 25

Medieval Studies Seminar + *The Other Faces of Arthur: Medieval Arthurian Texts from the Global North Atlantic* + **Nahir Otaño Gracia**, Member, School of Historical Studies

### March 18

Medieval Studies Seminar + *In Place of the Self: Ascetic Cultures in Medieval England* + **Amy Appleford**, Visitor, School of Historical Studies

### April 1

Medieval Studies Seminar + *Objects, Matter, and Assemblage: Orientalism and Awe in Clari's Constantinople* + **Joseph Derosier**, Beloit College

### April 22

Medieval Studies Seminar + *Marked Change: Disability and Life Writing, Past and Present* + **Jonathan Hsy**, Member, School of Historical Studies

### April 29

Medieval Studies Seminar + *The Poetics of Rage: Women's Anger, Misogyny, and Political Power in Premodern Britain* + **Carissa Harris**, Member, School of Historical Studies

### May 6

Medieval Studies Seminar + *What Ground Do We Read On? Reading Canonical Authors in Unsettling Times* + **Suzanne Conklin Akbari**, Professor, School of Historical Studies

### June 2–3

International workshop on *Textiles in Manuscripts: Cross-cultural Trade, Craft Production, and Influence in the Art of the Premodern Book* (<https://booksilkroadstextiles.artsci.utoronto.ca/>) + **Suzanne Conklin Akbari**, Professor, School of Historical Studies, with **Melissa Moreton**, Research Associate, School of Historical Studies

## NEAR/MIDDLE EASTERN AND ISLAMIC STUDIES ACTIVITIES

### October 21

Near Eastern Studies Lecture + *Maghribi Theology in Manuscript: Reason, Belief, and the Common Folk* + **Caitlyn Olson**, Harvard University and **Jan Thiele**, Consejo Superior de Investigaciones Científicas [CCHS-CSIC], Madrid

### October 28

Near Eastern Studies and Digital Scholarship Conversations @IAS Joint Lecture + *Hidden Gem of a Bygone Era: A Polythematic Work from a Rasulid Era* + **Kinga Dévényi**, Corvinus University of Budapest; The Oriental Collection of the Library of the Hungarian Academy of Sciences

### November 11

Near Eastern Studies Lecture + *The Egyptian Army in the Six-Day Arab-Israeli War* + **Khaled Fahmy**, University of Cambridge; Member, School of Historical Studies

### November 17

IAS Ethiopian Studies Series + *The Beta Israel and Ethiopian Christian Views of Jews and Judaism* + Panelists: **Steven Kaplan**, The Hebrew University of Jerusalem; **Sophia Dege-Müller**, Ruhr-Universität Bochum; **Marcia Kupfer**, Independent Scholar, Washington, DC; **Aaron Butts**, Catholic University of America; Visitor, School of Historical Studies + Moderator: **Samantha L. Kelly**, Rutgers, The State University of New Jersey; Member, School of Historical Studies + Conveners for this series are: **Suzanne Conklin Akbari**, Professor, School of Historical Studies; **Aaron Butts**; **Samantha L. Kelly**; **Sabine Schmidtke**, Professor, School of Historical Studies

### November 18

Near Eastern Studies Seminar + *Early Modern Pilgrimage: Literature and Practice in the Arab East* + **Björn Bentlage**, Orientalisches Institut, Martin-Luther-Universität Halle-Wittenberg; Member, School of Historical Studies

### December 2

Near Eastern Studies Seminar + *Understanding Sect and Sectarianism in the Early Modern Middle East: Ottomans, Safavids, and the Qizilbash* + **Ayşe Baltacıoğlu-Brammer**, New York University; Member, School of Historical Studies

### December 9

Near Eastern Studies Seminar + *Compendium of Pleasure: a 10th Century (?) Arabic Erotic Manual and its Sources* + **Pernilla Myrne**, University of Gothenburg; Member, School of Historical Studies

## December 16

Near Eastern Studies Seminar + *Beyond and Beside Text: What Objects Can Tell Us* + **Amanda Phillips**, University of Virginia; Member, School of Historical Studies

## January 27

Near Eastern Studies Seminar + *Historical Consciousness and the Rise of the Ottoman Empire in the Fifteenth Century* + **Dimitri J. Kastritsis**, University of St Andrews; Member, School of Historical Studies

## February 3

Near Eastern Studies and Digital Scholarship Conversations @IAS Joint Lecture + *The History of the Arabic Book: A New Chapter* + **Mathew Barber**, The Aga Khan University, KITAB; **Lorenz Nigst**, The Aga Khan University, KITAB; **Sarah Bowen Savant**, The Aga Khan University-ISM; **Peter Verkinderen**, The Aga Khan University, KITAB

## February 10

Near Eastern Studies Lecture + *The European Qur'an: The Qur'an in European Religions and Cultural History* + **Mercedes García-Arenal**, Consejo Superior de Investigaciones Científicas [CCHS-CSIC], Madrid; **Jan Loop**, Københavns Universitet; **John Tolan**, Université de Nantes; **Roberto Tottoli**, Università degli Studi di Napoli L'Orientale

## February 19

IAS Ethiopian Studies Series + *The Turn to the Medieval in Ethiopian Studies—The Turn to Ethiopia in Medieval Studies I* + Panelists: **Andrea Achi**, Department of Medieval Art and The Cloisters at the Metropolitan Museum; **Marie-Laure Derat**, Centre National de la Recherche Scientifique; **Kristen Windmuller-Luna**, Cleveland Museum of Art; **Felege-Selam Yirga**, The University of Tennessee Knoxville

## February 24

Near Eastern Studies Lecture + *Early Modern European Humanism and the Syriac New Testament* + **George A. Kiraz**, Research Associate, School of Historical Studies; Beth Mardutho: The Syriac

## March 10

Near Eastern Studies Seminar + *Preserving a Medieval Syriac 'Treasure' of 'Vocalized Words and Readings' from the Bible and Related Literature* + **Jonathan Loopstra**, University of Northwestern—St. Paul; Member, School of Historical Studies

## March 17

Near Eastern Studies and Digital Scholarship Conversations @IAS Joint Lecture + *An Egyptian Sheikh's Literary World* + **Adam Mestyan**, Duke University and **Kathryn Schwarz**, University of Massachusetts Amherst

## March 19

IAS Ethiopian Studies Series + *The Turn to the Medieval in Ethiopian Studies—The Turn to Ethiopia in Medieval Studies II* + Panelists: **Alessandro Bausi**, Universität Hamburg; **Verena B. Krebs**, Ruhr-Universität Bochum; **Eyob Derillo**, The British Library; **Samantha L. Kelly**, Rutgers, The State University of New Jersey; Member, School of Historical Studies

## March 25

The Author's Voice Inaugural Talk + *The Road to the Quran Keyword Database* + **Elie Wardini**, Department of Asia, Middle Eastern and Turkish Studies, Stockholm University + Hosted by **Sabine Schmidtke**, Professor, School of Historical Studies, and **George A. Kiraz**, Research Associate, School of Historical Studies; Editor-in-Chief, Gorgias Press, in cooperation with **Angelos Chaniotis**, Professor, School of Historical Studies

## March 31

Near Eastern Studies Lecture + *Castle to Castle: The Saadian Library in the El Escorial Collection* + **François Déroche**, Collège de France, PSL, Paris and **Nuria de Castilla**, École Pratique des Hautes Études, PSL, Paris

## April 14

Near Eastern Studies and Digital Scholarship Conversations @IAS Joint Lecture + *Bibliotheca Arabica—A Digital Home for the Arabic Manuscript Tradition* + **Verena Klemm**, Institute of Arabic Studies, University of Leipzig and **Stefanie Brinkmann**; **Boris Liebrecht**; **Thomas Efer**, Sächsische Akademie der Wissenschaften zu Leipzig

## April 23

Near Eastern Studies and Digital Scholarship Conversations @IAS Joint Lecture + *Simtho: The Syriac Thesaurus* + Launch of a Syriac textual corpus portal hosted by **Sabine Schmidtke**, Professor, School of Historical Studies, and **George A. Kiraz**, Research Associate, School of Historical Studies; Simtho [simtho.bethmardutho.org]

## May 20

IAS Ethiopian Studies Series + *Beyond Ethiopia: The Islamic Intellectual History of the Horn of Africa* + This is the fourth and final event of a webinar series IAS Ethiopian Studies + Panelists: **Maria Bulakh**, Institute for Oriental and Classical Studies, National Research University Higher School of Economics, Moscow; **Alessandro Gori**, University of Copenhagen; **Hassen Muhammad Kawo**, University of Cape Town, South Africa; **Paul M. Love**, Al Akhawayn University; **Anne Regourd**, Centre National de la Recherche Scientifique, Paris

## June 17

The Author's Voice + *The Goddess Isis and the Kingdom of Meroe* + **Solange Ashby**, Adjunct Assistant Professor, Barnard College + Hosted by **Sabine Schmidtke**, Professor, School of Historical Studies, and **George A. Kiraz**,

Beth Mardutho: The Syriac Institute; Research Associate, School of Historical Studies and Editor-in-Chief, Gorgias Press, in cooperation with **Angelos Chaniotis**, Professor, School of Historical Studies

## School of Mathematics

### July 1

Mathematical Conversations + *The Reversibility Paradox: 130 Years after Loschmidt and Zermelo* + **Laure Saint Raymond**, École normale supérieure de Lyon

### July 3

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Infinite Staircases and Reflexive Polygons* + **Ana Rita Pires**, University of Edinburgh

### July 7

Theoretical Machine Learning Seminar + *Machine Learning-Based Design (of Proteins, Small Molecules and Beyond)* + **Jennifer Listgarten**, University of California, Berkeley

### July 8

Mathematical Conversations + *Weyl Laws and Dense Periodic Orbits* + **Michael Hutchings**, University of California, Berkeley

### July 9

Theoretical Machine Learning Seminar + *Role of Interaction in Competitive Optimization* + **Anima Anandkumar**, California Institute of Technology

### July 10

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Knot Floer Homology and Bordered Algebras* + **Peter Ozsváth**, Princeton University

### July 14

Theoretical Machine Learning Seminar + *Relaxing the I.I.D. Assumption: Adaptive Minimax Optimal Sequential Prediction with Expert Advice* + **Jeffrey Negrea**, University of Toronto

### July 15

Mathematical Conversations + *On the Cap-Set Problem and the Slice Rank Polynomial Method* + **Lisa Sauermann**, Stanford University

### July 17

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Yusuke Kawamoto**, École normale supérieure; **Shira Tanny**, Tel Aviv University; **Javier Martinez Aguinaga**, Complutense University of Madrid

### July 21

Theoretical Machine Learning Seminar + *Graph Nets: The Next Generation* + **Max Welling**, University of Amsterdam



### July 22

Mathematical Conversations + *Singularities of Solutions of the Hamilton-Jacobi Equation. A Toy Model: Distance to a Closed Subset* + **Albert Fathi**, Georgia Institute of Technology

### July 23

Theoretical Machine Learning Seminar + *Priors for Semantic Variables* + **Yoshua Bengio**, Université de Montréal

### July 24

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Pontryagin-Thom for Orbifold Bordism* + **John Pardon**, Princeton University

### July 28

Theoretical Machine Learning Seminar + *Generalized Energy-Based Models* + **Arthur Gretton**, University College London

### July 30

Theoretical Machine Learning Seminar + *Efficient Robot Skill Learning via Grounded Simulation Learning, Imitation Learning from Observation, and Off-Policy Reinforcement Learning* + **Peter Stone**, The University of Texas at Austin

### August 4

Theoretical Machine Learning Seminar + *Nonlinear Independent Component Analysis* + **Aapo Hyvarinen**, University of Helsinki

### August 6

Theoretical Machine Learning Seminar + *A Blueprint of Standardized and Composable Machine Learning* + **Eric Xing**, Carnegie Mellon University

### August 11

Theoretical Machine Learning Seminar + *Statistical Learning Theory for Modern Machine Learning* + **John Shawe Taylor**, University College London

### August 13

Theoretical Machine Learning Seminar + *Latent State Discovery in Reinforcement Learning* + **John Langford**, Microsoft Research

### August 18

Theoretical Machine Learning Seminar + *From Speech AI to Finance AI and Back* + **Li Deng**, Citidel

### August 20

Theoretical Machine Learning Seminar + *Event Sequence Modeling with the Neural Hawkes Process* + **Jason Eisner**, Johns Hopkins University

### August 25

Theoretical Machine Learning Seminar + *Learning-Based Sketching Algorithms* + **Piotr Indyk**, Massachusetts Institute of Technology

### August 27

Theoretical Machine Learning Seminar + *Multi-Output Prediction: Theory and Practice* + **Inderjit Dhillon**, University of Texas at Austin

### September 4

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Hamiltonian Classification and Unlinkedness of Fibrations in Cotangent Bundles of Riemann Surfaces* + **Georgios Dimitroglou Rizell**, Uppsala University

### September 8

Virtual Workshop on Missing Data Challenges in Computation, Statistics and Applications + *Statistical Modeling and Missing Data* + **Rod Little**, University of Michigan + *Supervised Learning with Missing Values* + **Julie Josse**, L'Institut Polytechnique de Paris + *Missing Data in Single Cell Studies: Augmentation, Integration, and Discovery* + **Barbara Engelhardt**, Princeton University + *Experimental Evaluation of Computer-Assisted Human Decision Making: A Missing Data Approach* + **Kosuke Imai**, Harvard University

### September 9

Geometric and Modular Representation Theory Seminar + *Broué's Abelian Defect Group Conjecture I* + **Jay Taylor**, University of Southern California; Member, School of Mathematics

Virtual Workshop on Missing Data Challenges in Computation, Statistics and Applications + *Model-Based Clustering of High-Dimensional Data: Pitfalls & Solutions* + **David Dunson**, Duke University + *Causal Inference with Binary Outcomes Subject to Both Missingness and Misclassification* + **Grace Yi**, University of Wisconsin-Oshkosh + *Co-Manifold Learning with Missing Data* + **Eric Chi**, North Carolina State University + *Regularization and Spurious Correlations in Sparse Single-Cell Transcriptomes* + **Mickey Atwal**, Cold Spring Harbor Laboratory

### September 10

Joint IAS/Princeton University Number Theory Seminar + *An Asymptotic Version of the Prime Power Conjecture for Perfect Difference Sets* + **Sarah Peluse**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics

Virtual Workshop on Missing Data Challenges in Computation, Statistics and Applications + *Statistical Challenges with Single Cell RNA-Seq Technologies* + **Rafael Irizarry**, Harvard University + *Gene Expression Recovery in Single Cell Transcriptomic Data* + **Nancy Zhang**, University of Pennsylvania + *Synthesizing Medical Images Using Generative Adversarial Networks; Applications, Promises, and Pitfalls* + **Sanmi Koyejo**, University of Illinois at Urbana-

Champaign + *High-Dimensional Omics Data Analysis with Missing Values* + **Anru Zhang**, University of Wisconsin-Madison

### September 11

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Reeb Dynamics in Dimension 3 and Broken Book Decompositions* + **Vincent Colin**, Université de Nantes

Virtual Workshop on Missing Data Challenges in Computation, Statistics and Applications + *Metric and Manifold Repair for Missing Data* + **Anna Gilbert**, Yale University + *Low-Rank Matrix Recovery from Quantized or Count Observations* + **Mark Davenport**, Georgia Institute of Technology + *Low Algebraic Dimension Matrix Completion* + **Laura Balzano**, Member, School of Mathematics

### September 16

Geometric and Modular Representation Theory Seminar + *Broué's Abelian Defect Group Conjecture II* + **Daniel Juteau**, Centre National de la Recherche Scientifique/Université Paris Diderot; Member, School of Mathematics

### September 17

Joint IAS/Princeton University Number Theory Seminar + *Equivariant Localization, Parity Sheaves, and Cyclic Base Change* + **Tony Feng**, Member, School of Mathematics

### September 18

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Fukaya Category for Landau-Ginzburg Orbifolds and Berglund-Hübsch Homological Mirror Symmetry for Curve Singularities* + **Cheol Hyun Cho**, Seoul National University

### September 22

Short Talks by Postdoctoral Members + *Spectral Geometry on Metric Graphs* + **Lior Alon**, Member, School of Mathematics + *On the (Computational) Approximability of Quadratic Maximization over Convex Sets* + **Vijay Bhattiprolu**, Member, School of Mathematics + *Affine Springer Fibers and the Small Quantum Group* + **Pablo Boixeda Alvarez**, Member, School of Mathematics + *Non Smooth Spaces with Ricci Curvature Bounded from Below* + **Elia Brué**, Member, School of Mathematics + *Symplectic Topology of Open Manifolds* + **Laurent Côté**, Member, School of Mathematics + *Modular Representation Theory of  $p$ -adic Groups* + **Andrea Dotto**, Member, School of Mathematics

### September 23

Short Talks by Postdoctoral Members + *A Tale of Two Bases* + **Anne Dranowski**, Member, School of Mathematics + *Open Problem(s) in  $p$ -Cell Theory* + **Lars Jensen**, Member, School of Mathematics + *Quasi-Modular Forms from Elliptic Noether-Lefschetz Theory* + **Francois**

**Greer**, Member, School of Mathematics + *Some Representations of Special Linear Groups* + **Nate Harman**, Member, School of Mathematics + *Noncommutative Resolutions and Intersection Cohomology for Quotient Singularities* + **Tudor Padurariu**, Member, School of Mathematics + *On Globally Dissipative Euler Flows* + **Hyunju Kwon**, Member, School of Mathematics

### September 24

Joint IAS/Princeton University Number Theory Seminar + *A Non-Archimedean Definable Chow Theorem* + **Abhishek Oswal**, Member, School of Mathematics

### September 25

Short Talks by Postdoctoral Members + *Eisenstein Ideals: A Link between Geometry and Arithmetic* + **Emmanuel Lecouturier**, Member, School of Mathematics + *Koszul Duality Phenomenon for the Hecke Category* + **Shotaro Makisumi**, Member, School of Mathematics + *Lévy Matrices* + **Patrick Lopatto**, Member, School of Mathematics + *Cohomology of Line Bundles on Flag Varieties* + **Linyuan Liu**, Member, School of Mathematics + *Tame Topologies in Non-Archimedean Geometry* + **Abhishek Oswal**, Member, School of Mathematics + *Applications of the Trace of Frobenius: Past, Present, and Future* + **Tony Feng**, Member, School of Mathematics

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Triangulated Persistence Categories* + **Jun Zhang**, Université de Montréal

### September 29

Short Talks by Postdoctoral Members + *Asymptotic Enumeration Problems on the Hamming Cube* + **Jinyoung Park**, Member, School of Mathematics + *1% Cocycles and Finding Vertices of Squares* + **Sarah Peluse**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics + *Whittaker Functions and Lattice Models* + **Henrik Gustafsson**, Member, School of Mathematics + *Extension Complexity of (Low-Dimensional) Polytopes* + **Lisa Sauermann**, Stanford University; Member, School of Mathematics + *Spectral Numbers of Quantum Cohomologies* + **Sara Tukachinsky**, Member, School of Mathematics + *Falconer Distance Set Problem* + **Hong Wang**, Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *An Introductory Survey on Expanders and Their Applications* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

### September 30

Geometric and Modular Representation Theory Seminar + *Finite Groups as Algebraic Groups in Defining Characteristic* + **Raphaël Rouquier**, University of California, Los Angeles; Member, School of Mathematics

### October 1

Moonshine Seminar + *Introduction and Organizational Meeting* + **Akshay Venkatesh**, Robert and Luisa Fernholz Professor, School of Mathematics

Short Talks by Postdoctoral Members + *Automorphic Periods and Relative Trace Formula* + **Jingwei Xiao**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics + *The Geometric Satake Equivalence* + **Jize Yu**, Member, School of Mathematics + *Representations of  $p$ -adic Groups for Non-Experts* + **Jessica Fintzen**, University of Cambridge and Duke University; Member, School of Mathematics + *Hierarchies of Contact Manifolds* + **Zhengyi Zhou**, Member, School of Mathematics + *On Unimodular Groups Allowing Small Measure Growth* + **Ruixiang Zhang**, University of Wisconsin-Madison; Member, School of Mathematics + *Cohomological Vanishing for Moduli of Curves* + **Emanuel Reinecke**, Member, School of Mathematics

### October 2

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Embedding Ellipsoids into the One-Point Blowup of  $CP^2$*  + **Dusa McDuff**, Columbia University

### October 5

Computer Science/Discrete Mathematics Seminar I + *Splitting Necklaces: Existence, Hardness and Approximation* + **Noga Alon**, Princeton University

Analysis Seminar + *Quantifying Nonorientability and Filling Multiples of Embedded Curves* + **Robert Young**, New York University; von Neumann Fellow, School of Mathematics

Members' Seminar + *How to Diagonalize a Functor* + **Benjamin Elias**, University of Oregon; von Neumann Fellow, School of Mathematics

### October 6

Working Group on Stratified Homotopy Theory + *Introduction and Overview* + **Peter Haïne**, Massachusetts Institute of Technology

Computer Science/Discrete Mathematics Seminar II + *Simplified Lifting Theorems in Communication Complexity via Sunflowers* + **Toniann Pitassi**, University of Toronto; Visiting Professor, School of Mathematics

### October 7

Mathematical Conversations + *Robustness, Verifiability and Privacy in ML* + **Shafi Goldwasser**, Simons Institute and University of California, Berkeley

Geometric and Modular Representation Theory Seminar + *Finite Groups as Algebraic Groups in Non-Defining Characteristic* + **Raphaël Rouquier**, University of California, Los Angeles; Member, School of Mathematics

### October 8

Joint IAS/Princeton University Number Theory Seminar + *Representations of  $p$ -adic Groups and Applications* + **Jessica Fintzen**, University of Cambridge and Duke University; Member, School of Mathematics

Moonshine Seminar + *Factorization Algebras* + **Jacob Lurie**, Professor, School of Mathematics

### October 9

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *The Arnold Conjecture, Spectral Invariants and  $C^0$  Symplectic Topology* + **Lev Buhovsky**, Tel Aviv University

Workshop on Topology: Identifying Order in Complex Systems + *Parameters in Indexed Homology* + **Simon Cho**, University of Michigan

### October 12

Computer Science/Discrete Mathematics Seminar I + *Explicit Near-Fully  $X$ -Ramanujan Graphs* + **Xinyu Wu**, Carnegie Mellon University

Analysis Seminar + *Towards Universality of the Nodal Statistics on Metric Graphs* + **Lior Alon**, Member, School of Mathematics

Members' Seminar + *Stability, Non-Approximated Groups and High-Dimensional Expanders* + **Alexander Lubotzky**, Hebrew University of Jerusalem; Visiting Professor, School of Mathematics

### October 13

Working Group on Stratified Homotopy Theory + *Exodromy for Stratified Topological Spaces (after MacPherson)* + **Remy van Dobben De Bruyn**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Arithmetic Progressions and Spectral Structure* + **Thomas Bloom**, University of Cambridge

### October 14

Mathematical Conversations + *Peg Problems* + **Joshua Greene**, Boston College

Stability and Testability + *Introduction to Stability and Testability* + **Alexander Lubotzky**, Hebrew University of Jerusalem; Visiting Professor, School of Mathematics

Geometric and Modular Representation Theory Seminar + *An Introduction to Affine Grassmannians and the Geometric Satake Equivalence* + **Jize Yu**, Member, School of Mathematics

### October 15

Joint IAS/Princeton University Number Theory Seminar + *Heights and Dynamics over Arbitrary Fields* + **Carney Alexander**, University of Rochester

Moonshine Seminar

### October 16

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Mirror Symmetry for Chain Type Polynomials* + **Umut Varolgunes**, Stanford University

### October 19

Computer Science/Discrete Mathematics Seminar I + *A Parallel Repetition Theorem for the GHZ Game* + **Justin Holmgren**, Massachusetts Institute of Technology

Analysis Seminar + *Spectral Statistics of Lévy Matrices* + **Patrick Lopatto**, Member, School of Mathematics

Members' Seminar + *Log-Concavity, Matroids and Expanders* + **Cynthia Vinzant**, North Carolina State University; von Neumann Fellow, School of Mathematics

### October 20

SL2 Seminar + *Representations of  $GL_2(\mathbb{F}_q)$  in Defining Characteristic: A Number-Theorist's Perspective* + **Matthew Emerton**, University of Chicago

Working Group on Stratified Homotopy Theory + *Model Categories and Simplicial Homotopy Theory* + **Charles Weibel**, Rutgers, The State University of New Jersey; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *The Threshold for the Square of a Hamilton Cycle* + **Jinyoung Park**, Member, School of Mathematics

### October 21

Mathematical Conversations + *The Mumford-Shah Conjecture* + **Silvia Ghinassi**, University of Washington; Visitor, School of Mathematics

Stability and Testability + *Stability and Testability — A Computational Perspective* + **Jonathan Mosheiff**, Carnegie Mellon University

Geometric and Modular Representation Theory Seminar + *(Equivariant) Cohomology of the Affine Grassmannian and Ginzburg's Picture* + **Linyuan Liu**, University of Sydney; Member, School of Mathematics

### October 22

Joint IAS/Princeton University Number Theory Seminar + *On the Locally Analytic Vectors of the Completed Cohomology of Modular Curves* + **Lue Pan**, University of Chicago

Moonshine Seminar

### October 23

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Examples Related to Viterbo's Conjectures* + **Michael Hutchings**, University of California, Berkeley

Workshop on Topology: Identifying Order in Complex Systems + *How to Describe, Analyze and Interrogate Dynamics of Gene Regulatory Networks* + **Tomas Gedeon**, Montana State University

### October 26

Computer Science/Discrete Mathematics Seminar I + *Fractionally Log-Concave and Sector-Stable Polynomials: Counting Planar Matchings and More* + **Nima Anari**, Stanford University

Analysis Seminar + *Kolmogorov, Onsager and a Stochastic Model for Turbulence* + **Susan Friedlander**, University of Southern California; Member, School of Mathematics

Members' Seminar + *Paper Moebius Bands* + **Richard Schwartz**, Brown University; Member, School of Mathematics

### October 27

SL2 Seminar + *Simple Modules for  $SL_2$  via BN-Pairs* + **Lars Thorge Jensen**, Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *Quick Introduction to Quascategories* + **Allen Yuan**, Columbia University and the Massachusetts Institute of Technology

Computer Science/Discrete Mathematics Seminar II + *On the Extension Complexity of Random Polytopes* + **Lisa Sauermann**, Stanford University; Member, School of Mathematics

### October 28

Mathematical Conversations + *Wild Low-Rank Maps* + **Robert Young**, New York University; von Neumann Fellow, School of Mathematics

Stability and Testability + *Stability, Testability and Property (T)* + **Oren Beker**, University of Cambridge

Geometric and Modular Representation Theory Seminar + *Derived Equivariant Cohomology of the Affine Grassmannian and Bezrukavnikov and Finkelberg's Equivalences* + **Anne Dranowski**, Member, School of Mathematics

### October 29

Joint IAS/Princeton University Number Theory Seminar + *An Explicit Supercuspidal Local Langlands Correspondence* + **Tasho Kaletha**, University of Michigan; von Neumann Fellow, School of Mathematics

Moonshine Seminar

### October 30

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Simon Allais**, École normale supérieure de Lyon; **Orsola Capovilla-Searle**, Duke University; **Julian Chaidez**, University of California, Berkeley

### November 2

Computer Science/Discrete Mathematics Seminar I + *Anti-Concentration and the Gap-Hamming Problem* + **Anup Rao**, University of Washington

Analysis Seminar + *Falconer Distance Set Problem Using Fourier Analysis* + **Hong Wang**, Member, School of Mathematics

Members' Seminar + *Metric Embeddings, Uniform Rectifiability, and the Sparsest Cut Problem* + **Robert Young**, New York University; von Neumann Fellow, School of Mathematics

### November 3

SL2 Seminar + *Decomposition Numbers in Defining Characteristic* + **Andrea Dotto**, Member, School of Mathematics

### November 4

Mathematical Conversations + *Three-Term Arithmetic Progressions in Sets of Integers* + **Olof Sisask**, Stockholm University

Stability and Testability + *Stability and Sofic Approximations for Product Groups and Property (Tau)* + **Adrian Ioana**, University of California, San Diego

Geometric and Modular Representation Theory Seminar + *The Derived Geometric Satake Equivalence of Bezrukavnikov and Finkelberg* + **Jize Yu**, Member, School of Mathematics

### November 5

Joint IAS/Princeton University Number Theory Seminar + *Strong Approximation for the Markoff Equation via Nonabelian Level Structures on Elliptic Curves* + **William Chen**, Columbia University

Moonshine Seminar

### November 6

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Secondary Coproducts in Morse and Floer Homology* + **Kai Cieliebak**, University of Augsburg

Workshop on Topology: Identifying Order in Complex Systems + *Algebraic and Topological Models for DNA Recombination* + **Natasa Jonoska**, University of South Florida

### November 9

Computer Science/Discrete Mathematics Seminar I + *Associativity Testing* + **Ben Green**, University of Oxford

Analysis Seminar + *Transverse Measures and Best Lipschitz and Least Gradient Maps* + **Karen Uhlenbeck**, University of Texas at Austin; Distinguished Visiting Professor, School of Mathematics

Members' Seminar + *Some Analogies between Arithmetic and Topology* + **Tony Feng**, Member, School of Mathematics

### November 10

SL2 Seminar + *Blocks and Defect Groups of  $SL_n$*  + **Nate Harman**, Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *Part II of Talks* + **Charles Weibel**, **Allen Yuan**, Rutgers, The State University of New Jersey; Member, School of Mathematics and Visitor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Modular Zeros in the Character Table of the Symmetric Group* + **Sarah Peluse**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics

### November 11

Mathematical Conversations + *Deep Learning for the Working Mathematician* + **Carlos Tschudi Simpson**, CNRS, Université de Nice Sophia Antipolis; Visiting Professor, School of Mathematics

Stability and Testability + *Flexible Stability and Nonsoficity* + **Peter Burton**, University of Texas at Austin

Geometric and Modular Representation Theory Seminar + *Iwahori-Whittaker Category and Geometric Casselman-Shalika* + **Tony Feng**, Member, School of Mathematics

### November 12

Joint IAS/Princeton University Number Theory Seminar + *Effective Height Bounds for Odd-Degree Totally Real Points on Some Curves* + **Levent Alpoge**, Columbia University

Moonshine Seminar

### November 13

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Quantum Cohomology as a Deformation of Symplectic Cohomology* + **Nicolas Sheridan**, University of Edinburgh

### November 16

Computer Science/Discrete Mathematics Seminar I + *Indistinguishability Obfuscation from Well-Founded Assumptions* + **Huijia Rachel Lin**, University of Washington

Analysis Seminar + *On Hölder Continuous Globally Dissipative Euler Flows* + **Hyunju Kwon**, Member, School of Mathematics

Virtual Workshop on Recent Developments in Geometric Representation Theory + *Theta Intertwining Sheaves* + **Zhiwei Yun**, Massachusetts Institute of Technology + *Modular Perverse Sheaves on the Affine Flag Variety* + **Laura Rider**, University of Georgia + *The Integral Coefficient Geometric Satake Equivalence in Mixed Characteristic* + **Jize Yu**, Member, School of Mathematics

### November 17

Working Group on Stratified Homotopy Theory + *The Covariant Model Structure and Straightening/Unstraightening* + **John Pardon**, Princeton University

Computer Science/Discrete Mathematics Seminar II + *Factorization through  $L_2$ , Rounding and Duality* + **Vijay Bhattiprolu**, Member, School of Mathematics

Virtual Workshop on Recent Developments in Geometric Representation Theory + *Coherent Categorification of Quantum Loop  $sl(2)$*  + **Peng Shan**, Tsinghua University; Member, School of Mathematics + *The Picard Group of the Stable Module Category of a Finite Group* + **Jesper Grodal**, University of Copenhagen; Member, School of Mathematics + *Path Isomorphisms between Quiver Hecke and Diagrammatic Bott-Samelson Endomorphism Algebras* + **Amit Hazi**, University of London + *The Center of the Small Quantum Group* + **Pablo Boixeda Alvarez**, Member, School of Mathematics

### November 18

Mathematical Conversations + *Higher Order Fourier Analysis and Generalizations of Szemerédi's Theorem* + **Sarah Peluse**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics

Virtual Workshop on Recent Developments in Geometric Representation Theory + *2-Verma Modules* + **Gregoire Naisse**, **Pedro Vaz**, University College London + *Representations on  $KU$ -Modules* + **David Treumann**, Boston College + *Stability and Periodicity in Modular Representation Theory* + **Nate Harman**, Member, School of Mathematics + *Cohomology of Line Bundles on Flag Varieties in Positive Characteristic* + **Linyuan Liu**, University of Sydney; Member, School of Mathematics

Stability and Testability + *Surface Groups Are Flexibly Stable* + **Nir Lazarovich**, Technion – Israel Institute of Technology

### November 19

Joint IAS/Princeton University Number Theory Seminar + *Ramanujan Conjecture and the Density Hypothesis* + **Shai Evra**, Princeton University

Virtual Workshop on Recent Developments in Geometric Representation Theory + *Induction of  $p$ -Cells and Localization* + **Lars Thorge Jensen**, Member, School of Mathematics + *Reverse Plane Partitions and Modules for the Preprojective Algebra* + **Anne Dranowski**, Member, School of Mathematics + *Unitriangularity and Decomposition Matrices of Unipotent Blocks* + **Jay Taylor**, University of Southern California; Member, School of Mathematics + *Generalized Affine Grassmannian Slices, Truncated Shifted Yangians, and Hamiltonian Reduction* + **Joel Kamnitzer**, University of Toronto

### November 20

Moonshine Seminar

Virtual Workshop on Recent Developments in Geometric Representation Theory + *Macdonald Polynomials and Decomposition Numbers for Finite Unitary Groups* + **Olivier Dudas**, Institut de mathématiques de Jussieu–Paris Rive Gauche + *Real and Symmetric Springer Theory* + **David Nadler**, University of California, Berkeley + *Curved Hecke Categories* + **Shotaro Makusumi**, Columbia University; Member, School of Mathematics + *Perverse Sheaves on Configuration Spaces, Hopf Algebras and Parabolic Induction* + **Mikhail Kapranov**, Kavli Institute for the Physics and Mathematics of the Universe, University of Tokyo

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Persistence and Triangulation in Lagrangian Topology* + **Paul Biran**, Eidgenössische Technische Hochschule Zürich

Workshop on Topology: Identifying Order in Complex Systems + *Topological Methods for Characterizing the Relationship between Polymer Entanglement and Viscoelasticity* + **Eleni Panagiotou**, University of Tennessee, Chattanooga

### November 23

Computer Science/Discrete Mathematics Seminar I + *New Isoperimetric Inequalities for Convex Bodies* + **Amir Yehudayoff**, Technion – Israel Institute of Technology

Analysis Seminar + *Boundary Regularity and Stability for Spaces with Ricci Curvature Bounded Below* + **Elia Bruè**, Member, School of Mathematics

Members' Seminar + *Growth, Isoperimetry and Liouville Property for Random Walks on Groups* + **Anna Erschler**, École normale supérieure; Member, School of Mathematics

### November 24

SL2 Seminar + *Derived Equivalences for Blocks of Cyclic Defect* + **Jay Taylor**, University of Southern California; Member, School of Mathematics



Working Group on Stratified Homotopy Theory + *The Joyal Model Structure on Simplicial Sets and Equivalence with Simplicial Categories* + **Linus Hamann**, Princeton University

Computer Science/Discrete Mathematics Seminar II + *Factorization through L2, Rounding and Duality Part 2* + **Vijay Bhattiprolu**, Member, School of Mathematics

### November 25

Stability and Testability + *Approximations of Groups, Subquotients of Infinite Direct Products and Equations over Groups* + **Lev Glebsky**, Universidad Autónoma de San Luis Potosí

### November 27

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Yu Wei Fan**, University of California, Berkeley; **Surena Hozaori**, Georgia Institute of Technology; **Marcelo Atallah**, University of Montreal

### November 30

Computer Science/Discrete Mathematics Seminar I + *Thresholds for Random Subspaces, aka, LDPC Codes Achieve List-Decoding Capacity* + **Mary Wootters**, Stanford University

Analysis Seminar + *Sharp Nonuniqueness for the Navier-Stokes Equations* + **Xiaoyu Luo**, Duke University

Members' Seminar + *Support Varieties for Modular Representations* + **Eric M. Friedlander**, University of Southern California; Member, School of Mathematics

### December 1

SL2 Seminar + *The ABG Equivalence* + **Pablo Boixeda Alvarez**, Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *Cartesian Fibrations* + **Arpon Raksit**, Stanford University

Computer Science/Discrete Mathematics Seminar II + *Getting the Most from Our Data* + **Paul Valiant**, Brown University; Member, School of Mathematics

### December 2

Mathematical Conversations + *Isolated Points on Curves* + **Bianca Viray**, University of Washington

Stability and Testability + *Stability, Cohomology Vanishing, and Non-Approximable Groups* + **Andreas Thom**, University of Dresden

Geometric and Modular Representation Theory Seminar + *Geometric Satake Equivalence: A Historical Survey* + **George Lusztig**, Massachusetts Institute of Technology; Member, School of Mathematics

### December 3

Joint IAS/Princeton University Number Theory Seminar + *A Unitary Analogy of Friedberg-Jacquet and Guo-Jacquet Periods and Central Values of Standard L Functions on  $GL(2n)$*  + **Jingwei Xiao**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics

Moonshine Seminar

### December 4

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *The Singular Weinstein Conjecture and the Contact/Beltrami Mirror* + **Eva Miranda**, Universitat Politècnica de Catalunya

Workshop on Topology: Identifying Order in Complex Systems + *Raytracing and Raymarching Simulations of Non-Euclidean Geometries* + **Henry Segerman**, Oklahoma State University

### December 7

Computer Science/Discrete Mathematics Seminar I + *Extractor-Based Approach to Proving Memory-Sample Lower Bounds for Learning* + **Sumegha Garg**, Harvard University

Analysis Seminar + *Stability of Discontinuous Solutions for Inviscid Compressible Flows* + **Alexis Vasseur**, University of Texas at Austin

Members' Seminar + *NP-Hard Problems Naturally Arising in Knot Theory* + **Anastasiia Tsvietkova**, Rutgers, The State University of New Jersey

### December 8

Working Group on Stratified Homotopy Theory + *Cartesian Model Structure and Marked Simplicial Sets* + **Carlos Tschudi Simpson**, CNRS, Université de Nice Sophia Antipolis; Visiting Professor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *High Dimensional Expanders and Ramanujan Complexes* + **Alexander Lubotzky**, Hebrew University of Jerusalem; Visiting Professor, School of Mathematics

### December 9

Mathematical Conversations + *Determinants, Hyperbolicity, and Interlacing* + **Cynthia Vinzant**, North Carolina State University; von Neumann Fellow, School of Mathematics

Stability and Testability + *Vanishing of Cohomology for Groups Acting on Buildings* + **Izhar Oppenheim**, Ben Gurion University

Geometric and Modular Representation Theory Seminar + *Lefschetz Operators, Hodge-Riemann Forms, and Representations* + **Peter Fiebig**, Friedrich-Alexander-Universität Erlangen-Nürnberg; Member, School of Mathematics

### December 10

Joint IAS/Princeton University Number Theory Seminar + *On the Liouville Function at Polynomial Arguments* + **Joni Teräväinen**, University of Oxford

Moonshine Seminar

### December 11

Workshop on Turbulence + *Status of Experiments and Simulations on Scaling Problems in Turbulence* + **Katepalli Sreenivasan**, New York University + *Fluid Turbulence, Thermal Noise and Spontaneous Stochasticity* + **Gregory Eyink**, Johns Hopkins University + *Turbulence as Gibbs Statistics of Vortex Sheets* + **Alexander Migdal**, New York University

Moonshine Seminar

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Hierarchies of Contact Manifolds via Rational SFT* + **Zhengyi Zhou**, Member, School of Mathematics

### December 14

Analysis Seminar + *The Singular Set in the Stefan Problem* + **Joaquim Serra**, Eidgenössische Technische Hochschule Zürich

Members' Seminar + *A Feynman Approach to Dynamic Rate Markov Processes* + **William Massey**, Princeton University; Member, School of Mathematics

### December 15

SL2 Seminar + *Cohomology: Qualitative and Stable Results* + **Eric M. Friedlander**, University of Southern California; Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *(Homotopy) Limits and Colimits* + **Tony Feng**, Member, School of Mathematics

### December 16

Mathematical Conversations + *The Perceptron Problem* + **Nike Sun**, Massachusetts Institute of Technology

Stability and Testability + *Hilbert-Schmidt Stability of Groups via  $C^*$ -Algebras* + **Tatiana Shulman**, Polish Academy of Science

Geometric and Modular Representation Theory Seminar + *Hecke Category via Derived Convolution Formalism* + **Dima Arinkin**, University of Wisconsin-Madison

### December 17

Moonshine Seminar

### January 11

Analysis Seminar + *The Ground State Energy of Dilute Bose Gases* + **Soeren Fournais**, Aarhus University; Member, School of Mathematics

## January 12

Working Group on Stratified Homotopy Theory + *Presheaves and the Yoneda Lemma* + **Robin Carlier**, École normale supérieure de Lyon

## January 13

Stability and Testability + *The PCP Theorem, Locally Testable Codes, and Property Testing* + **Irit Dinur**, Weizmann Institute of Science

Geometric and Modular Representation Theory Seminar + *Introduction to Smith Theory* + **Tony Feng**, Member, School of Mathematics

## January 14

Moonshine Seminar

## January 15

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Symplectic Implosion* + **Lisa Jeffrey**, University of Toronto

## January 19

SL2 Seminar + *A Categorical Approach to Representations in Defining Characteristic* + **Nate Harman**, Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *Adjoint Functors* + **Emanuel Reinecke**, Member, School of Mathematics

## January 20

Stability and Testability + *Stability and Invariant Random Subgroups* + **Henry Bradford**, University of Cambridge

Geometric and Modular Representation Theory Seminar + *The Linkage Principle and the Tilting Character Formula via Smith-Treumann Theory* + **Daniel Juteau**, CNRS, Université Paris Diderot; Member, School of Mathematics

## January 21

Joint IAS/Princeton University Number Theory Seminar + *Ax-Lindemann-Weierstrass Theorem (ALW) for Fuchsian Automorphic Functions* + **Joel Nagloo**, The City University of New York

Moonshine Seminar

Quantum Groups Seminar + *Introduction to Quantized Enveloping Algebras* + **Leonardo Maltoni**, Sorbonne University

## January 22

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Pseudo-Rotations vs. Rotations* + **Basak Gurel**, University of Central Florida

## January 25

Computer Science/Discrete Mathematics Seminar I + *An Improved Exponential-Time Approximation Algorithm for Fully-Alternating Games against Nature* + **Andrew Drucker**, University of Chicago

Analysis Seminar + *Bogoliubov Theory for Trapped Bose-Einstein Condensates* + **Benjamin Schlein**, University of Zurich

Members' Seminar + *A Nonabelian Brunn-Minkowski Inequality* + **Ruixiang Zhang**, University of Wisconsin-Madison; Member, School of Mathematics

## January 26

SL2 Seminar + *Why Do We Care about Characters of Tilting Modules?* + **Shotaro Makisumi**, Columbia University; Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *Accessible and Presentable  $\infty$ -Categories* + **Sophie Morel**, École normale supérieure de Lyon

Computer Science/Discrete Mathematics Seminar II + *Log-Concave Polynomials in Theory and Applications* + **Cynthia Vinzant**, North Carolina State University; von Neumann Fellow, School of Mathematics

## January 27

Mathematical Conversations + *Möbius Disjointness* + **Peter Sarnak**, Professor, School of Mathematics

Stability and Testability + *Stability of Amenable Groups via Ergodic Theory* + **Arie Levit**, Yale University

Geometric and Modular Representation Theory Seminar + *The Hecke Category Action on the Principal Block via Smith Theory* + **Geordie Williamson**, University of Sydney; Distinguished Visiting Professor, School of Mathematics

## January 28

Moonshine Seminar

Quantum Groups Seminar + *Introduction to Quantized Enveloping Algebras* + **Leonardo Maltoni**, Sorbonne University

Short Talks by Postdoctoral Members + *Exponential Exact Algorithms for NP Complete Problems* + **Or Zamir**, Member, School of Mathematics + *Distribution Properties of Hodge and Tate Loci* + **Salim Tayou**, Member, School of Mathematics + *Cohomology of Arithmetic Groups and Endoscopy* + **Mathilde Gerbelli-Gauthier**, Member, School of Mathematics

## January 29

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Alexandre Jannaud**, Sorbonne University; **Tim Large**, Massachusetts Institute of Technology; **Oliver Edtmair**, University of California, Berkeley

## February 1

Computer Science/Discrete Mathematics Seminar I + *Graph Density Inequalities, Sums of Squares and Tropicalization* + **Annie Raymond**, University of Massachusetts Amherst

Analysis Seminar + *Index Theorems for Nodal Count and a Lateral Variation Principle* + **Gregory Berkolaiko**, Texas A&M University

## February 2

SL2 Seminar + *User's Guide to Computing with Tilting Modules* + **Benjamin Elias**, University of Oregon; von Neumann Fellow, School of Mathematics

Working Group on Stratified Homotopy Theory +  *$\infty$ -Topoi* + **Ian Coley**, Rutgers, The State University of New Jersey

Computer Science/Discrete Mathematics Seminar II + *Log-Concave Polynomials in Theory and Applications—Part 2* + **Cynthia Vinzant**, North Carolina State University; von Neumann Fellow, School of Mathematics

## February 3

Mathematical Conversations + *How Hard Is It to Tell Two Knots Apart?* + **Anastasiia Tsvietkova**, Rutgers, The State University of New Jersey; von Neumann Fellow, School of Mathematics

Stability and Testability + *Permutation Stability of Grigorchuk Groups* + **Tianyi Zheng**, University of California, San Diego

Geometric and Modular Representation Theory Seminar + *The K-Ring of Steinberg Varieties* + **Pablo Boixeda Alvarez**, Member, School of Mathematics

## February 4

Moonshine Seminar

Quantum Groups Seminar + *Center of Quantum Group* + **Arun Kannan**, Massachusetts Institute of Technology

## February 5

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Algebraic Torus Actions on Fukaya Categories and Tameness of Change in Floer Homology under Symplectic Isotopies* + **Yusuf Baris Kartal**, Princeton University

## February 8

Computer Science/Discrete Mathematics Seminar I + *Total Functions in the Polynomial Hierarchy* + **Robert Kleinberg**, Cornell University

Analysis Seminar + *Planarity in Higher Codimension Mean Curvature Flow* + **Keaton Naff**, Columbia University

Members' Seminar + *The Top-Heavy Conjecture for Vectors and Matroids* + **Tom Braden**, University of Massachusetts Amherst; Member, School of Mathematics

### February 9

SL2 Seminar + *Tilting Character Computations* + **Geordie Williamson**, University of Sydney; Distinguished Visiting Professor, School of Mathematics

Working Group on Stratified Homotopy Theory + *Overview and Homotopy Theory of Stratified Spaces* + **Remy Van Dobben De Bruyn**, Institute for Advanced Study and Princeton University; Veblen Research Instructor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *High Dimensional Expanders* + **Shai Evra**, Princeton University

### February 10

Mathematical Conversations + *Quantum Integer Valued Polynomials* + **Nate Harman**, Member, School of Mathematics

Stability and Testability + *Non-Amenable Groups Admitting No Sofic Approximation by Expander Graphs* + **Gabor Kun**, Alfréd Rényi Institute of Mathematics

Geometric and Modular Representation Theory Seminar + *Equivariantization and De-Equivariantization* + **Shotaro Makisumi**, Columbia University; Member, School of Mathematics

### February 11

Joint IAS/Princeton University Number Theory Seminar + *Cohomology of Arithmetic Groups and Endoscopy* + **Mathilde Gerbelli-Gauthier**, Member, School of Mathematics

Moonshine Seminar

Quantum Groups Seminar + *Center of Quantum Group* + **Arun Kannan**, Massachusetts Institute of Technology

### February 12

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Non-Displaceable Lagrangian Links in Four-Manifolds* + **Cheuk Yu Mak**, University of Edinburgh

### February 15

Computer Science/Discrete Mathematics Seminar I + *Monotone Arithmetic Circuit Lower Bounds via Communication Complexity* + **Arkadev Chattopadhyay**, Tata Institute of Fundamental Research

### February 16

SL2 Seminar + *Tilting Character Computations II* + **Lars Thorge Jensen**, Member, School of Mathematics

Working Group on Stratified Homotopy Theory + *Complete Segal Spaces and Spatial Décollage* + **Ian Coley**, Rutgers, The State University of New Jersey

Computer Science/Discrete Mathematics Seminar II + *High Dimensional Expanders—Part 2* + **Shai Evra**, Princeton University

### February 17

Mathematical Conversations + *Why Is  $N_{\mathbb{F}_q(12)}^{\text{new}}(\lambda)$  of Cocompact Type?* + **Terrence Blackman**, Medgar Evers College, The City University of New York; Visitor, School of Mathematics

Stability and Testability + *Matrix Stability of Crystallographic Groups* + **Soren Eilers**, University of Copenhagen

Geometric and Modular Representation Theory Seminar + *Gaitsgory's Central Sheaves* + **Tom Braden**, University of Massachusetts Amherst; Member, School of Mathematics

### February 18

Joint IAS/Princeton University Number Theory Seminar + *Exceptional Jumps of Picard Rank of K3 Surfaces over Number Fields* + **Salim Tayou**, Member, School of Mathematics

Moonshine Seminar

Quantum Groups Seminar + *R-Matrices* + **Elijah Bodish**, University of Oregon

### February 19

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Intrinsic Mirror Symmetry and Categorical Crepant Resolutions* + **Daniel Pomerleano**, University of Massachusetts Boston

### February 22

Computer Science/Discrete Mathematics Seminar I + *Optimal Mixing of Glauber Dynamics: Entropy Factorization via High-Dimensional Expansion* + **Zongchen Chen**, Georgia Institute of Technology

Analysis Seminar + *Spread of Infections in Random Walkers* + **Allan Sly**, Princeton University

Members' Seminar + *Astrophysical Fluid Dynamics* + **James Stone**, Professor, School of Natural Sciences

### February 23

SL2 Seminar + *Billiards and Boats* + **Lars Thorge Jensen**, Member, School of Mathematics

Working Group on Stratified Homotopy Theory +  *$\infty$ -Topoi in Topology and Geometry* + **Emanuel Reinecke**, Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Introduction to Laplacian Linear Systems for Undirected Graphs* + **John Peebles**, Member, School of Mathematics

### February 24

Mathematical Conversations + *Space Vectors Forming Rational Angles* + **Bjorn Poonen**, Massachusetts Institute of Technology

Stability and Testability + *Norm Stability in the Unitary Case from Voiculescu to Gromov-Lawson* + **Shmuel Weinberger**, University of Chicago

Geometric and Modular Representation Theory Seminar + *The Affine Hecke Category Is a Monoidal Colimit* + **James Tao**, Massachusetts Institute of Technology

### February 25

Joint IAS/Princeton University Number Theory Seminar + *Selmer Groups and a Cassels-Tate Pairing for Finite Galois Modules* + **Alexander Smith**, Massachusetts Institute of Technology

Moonshine Seminar

Quantum Groups Seminar + *R-Matrices* + **Elijah Bodish**, University of Oregon

### February 26

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Twisted Generating Functions and the Nearby Lagrangian Conjecture* + **Sylvain Courte**, Université Grenoble Alpes

### March 1

Computer Science/Discrete Mathematics Seminar I + *Rainbow Structures, Latin Squares & Graph Decompositions* + **Benny Sudakov**, Eidgenössische Technische Hochschule Zürich

Analysis Seminar + *Graph Comparison* + **Anton Petrunin**, Pennsylvania State University  
Members' Seminar + *The Value of Errors in Proofs* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

### March 2

Working Group on Stratified Homotopy Theory + *Shape Theory and Stone  $\infty$ -Topoi* + **Jacob Lurie**, Professor, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Solving Laplacian Systems of Directed Graphs* + **John Peebles**, Member, School of Mathematics

### March 3

Mathematical Conversations + *Newton, Euler, Navier, and Green* + **Susan Friedlander**, University of Southern California; Member, School of Mathematics

Stability and Testability + *Topological Obstructions to Matrix Stability of Discrete Groups* + **Marius Dadarlat**, Purdue University

Geometric and Modular Representation Theory Seminar + *On Two Geometric Realizations of the Anti-Spherical Module* + **Tsao Hsien Chen**, University of Minnesota Twin Cities; Member, School of Mathematics

#### March 4

Joint IAS/Princeton University Number Theory Seminar + *Monoideal Structures on  $GL(2)$ -Modules and Abstractly Automorphic Representations* + **Gal Dor**, Tel Aviv University

Moonshine Seminar

Quantum Groups Seminar + *Braid Group Actions and PBW Type Basis* + **Calder Morton Ferguson**, Massachusetts Institute of Technology

#### March 5

Ruth and Irving Adler Expository Lecture in Mathematics + *From Superconductors to Coulomb Gases: Crystallization Questions* + **Sylvia Serfaty**, New York University

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Periodic Floer Homology and the Large-Scale Geometry of Hofer's Metric on the Sphere* + **Sobhan Seyfaddini**, Institut de Mathématiques de Jussieu-Paris Rive Gauche

Workshop on Topology: Identifying Order in Complex Systems + *Persistent Matchmaking* + **Uli Bauer**, Technical University of Munich

#### March 8

Computer Science/Discrete Mathematics Seminar I + *Strong Refutation of Semi-Random Boolean CSPs* + **Venkatesan Guruswami**, Carnegie Mellon University

Members' Seminar + *Higher Representation Theory* + **Raphaël Rouquier**, University of California, Los Angeles; Member, School of Mathematics

#### March 9

SL2 Seminar + *A Friendly Introduction to Microlocal Sheaves* + **Michael McBreen**, Chinese University of Hong Kong

Working Group on Stratified Homotopy Theory + *Oriented Pushouts and Oriented Fibre Products* + **Keyao Peng**, Institut Fourier Grenoble Alpes

Computer Science/Discrete Mathematics Seminar II + *Random  $k$ -out Subgraphs* + **Or Zamir**, Member, School of Mathematics

#### March 10

Mathematical Conversations + *Many Interacting Quantum Particles: Open Problems, and a New Point of View on an Old Problem* + **Ian Jauslin**, Princeton University

Stability and Testability + *Constraint Metric Approximation and Constraint Stability* + **Liviu Paunescu**, Romanian Academy

Geometric and Modular Representation Theory Seminar + *Two Geometric Realizations of the Affine Hecke Algebra I* + **Pablo Boixeda Alvarez**, Member, School of Mathematics

#### March 11

Joint IAS/Princeton University Number Theory Seminar + *Some Remarks on Landau-Siegel Zeros* + **Alexandru Zaharescu**, University of Illinois at Urbana-Champaign

Moonshine Seminar

Quantum Groups Seminar + *Continuation from Last Time* + **Calder Morton Ferguson**, Massachusetts Institute of Technology

#### March 12

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Inverting Primes in Weinstein Geometry* + **Oleg Lazarev**, Harvard University

#### March 15

Computer Science/Discrete Mathematics Seminar I + *Local Proofs with Arbitrarily Small Encoding Overhead* + **Noga Ron Zewi**, Haifa University

Analysis Seminar + *The Dissipation Properties of Transport Noise* + **Franco Flandoli**, Scuola Normale Superiore di Pisa

Members' Seminar + *Estimating the Mean of a Real Valued Distribution* + **Paul Valiant**, Brown University; von Neumann Fellow, School of Mathematics

#### March 16

SL2 Seminar + *Microlocal Sheaves II: Morphisms, Microperverse Sheaves and Regular Singularities* + **Michael McBreen**, Chinese University of Hong Kong

Working Group on Stratified Homotopy Theory + *Localisations and Base Change Theorems* + **Carlos Tschudi Simpson**, CNRS, Université de Nice Sophia Antipolis

Computer Science/Discrete Mathematics Seminar II + *Polynomial Systems and Mixed Volumes* + **Ricky I. Liu**, North Carolina State University; Member, School of Mathematics

#### March 17

Mathematical Conversations + *Embedded Contact Homology of Prequantization Bundles* + **Jo Nelson**, Rice University

Stability and Testability + *Approximate Representations of Symplectomorphisms via Quantization* + **Leonid Polterovich**, Tel Aviv University

Geometric and Modular Representation Theory Seminar + *Affine Hecke Category and Noncommutative Springer Resolution* + **Roman Bezrukavnikov**, Massachusetts Institute of Technology; Member, School of Mathematics

#### March 18

Joint IAS/Princeton University Number Theory Seminar + *The Shafarevich Conjecture for Hypersurfaces in Abelian Varieties* + **Will Sawin**, Columbia University

Moonshine Seminar

Quantum Groups Seminar + *Algebraic Groups and All in Characteristic  $p$*  + **Ivan Loseu**, Yale University; Member, School of Mathematics

#### March 19

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Lagrangian Configurations and Hamiltonian Maps* + **Egor Shelukhin**, University of Montreal

Workshop on Topology: Identifying Order in Complex Systems + *Physics of Functional Networks* + **Henrik Ronellenfitsch**, Williams College

#### March 22

Computer Science/Discrete Mathematics Seminar I + *The Abstract Chromatic Number* + **Leonardo Nagami Coregliano**, University of Chicago

Members' Colloquium + *String Topology and the Intersection Product* + **Nathalie Wahl**, University of Copenhagen; Member, School of Mathematics

Analysis Seminar + *A Stationary Set Method for Estimating Oscillatory Integrals* + **Ruixiang Zhang**, University of Wisconsin-Madison; Member, School of Mathematics

#### March 23

SL2 Seminar + *Microlocal Sheaves III: Regular Singularities and Riemann-Hilbert* + **Michael McBreen**, Chinese University of Hong Kong

Working Group on Stratified Homotopy Theory + *Stratified  $\infty$ -Topoi and Topotic Décollage* + **Clark Barwick**, University of Edinburgh

Computer Science/Discrete Mathematics Seminar II + *Amortized Circuit Complexity, Formal Complexity Measures, and Catalytic Algorithms* + **Jeroen Zuiddam**, New York University

#### March 24

Mathematical Conversations + *Surfaces and Point Processes* + **Jayadev Athreya**, University of Washington



Stability and Testability + *Why Was Connes' Embedding Conjecture Refuted and There Are Still No Known Non-Hyperlinear Groups?* + **Michael Chapman**, Hebrew University of Jerusalem

Geometric and Modular Representation Theory Seminar + *Parabolic Version of the Two Realizations Theorem and Applications to Modular Representation Theory* + **Ivan Loseu**, Yale University; Member, School of Mathematics

### March 25

Joint IAS/Princeton University Number Theory Seminar + *The Local Gan-Gross-Prasad Conjecture for Real Unitary Groups* + **Hang Xue**, The University of Arizona

Moonshine Seminar

Quantum Groups Seminar + *Quantum Groups at Roots of Unity* + **Jay Taylor**, University of Southern California; Member, School of Mathematics

### March 26

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 minute Research Talks* + **Jesse Huang**, University of Illinois at Urbana-Champaign; **Shaoyun Bai**, Princeton University; **Thomas Melistas**, University of Georgia

### March 29

Computer Science/Discrete Mathematics Seminar I + *Approximating Max Cut with Subexponential Linear Programs* + **Tselil Schramm**, Stanford University

Analysis Seminar + *Mean-Field Limits for Coulomb-Type Dynamics* + **Sylvia Serfaty**, New York University

Workshop on Representation Theory and Geometry + *Towards Canonical Bases in Homology of Symplectic Resolutions* + **Roman Bezrukavnikov**, Massachusetts Institute of Technology; Member, School of Mathematics + *Smith Theory and Langlands Functoriality* + **Tony Feng**, Member, School of Mathematics + *Modular Perverse Sheaves on Symplectic Singularities* + **Tom Braden**, University of Massachusetts Amherst; Member, School of Mathematics

### March 30

Working Group on Stratified Homotopy Theory + *Exodromy Correspondence for Stratified  $\infty$ -Topoi* + **Remy van Dobben De Bruyn**, Institute for Advanced Study and Princeton University; **Veblen Research Instructor**, School of Mathematics

Workshop on Representation Theory and Geometry + *From Weyl Modules to Simple Modules in Many Small Steps* + **George Lusztig**, Massachusetts Institute of Technology + *Flag Manifolds over Semifields I* + **Huanchen Bao**, National University of Singapore; Member,

School of Mathematics + *Springer, Process and Cherednik* + **Ivan Loseu**, Yale University; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *Computational-Statistical Gaps and the Group Testing Problem* + **Fotis Iliopoulos**, Member, School of Mathematics

### March 31

Workshop on Representation Theory and Geometry + *Webs in Type C* + **Benjamin Elias**, University of Oregon; von Neumann Fellow, School of Mathematics + *New Isolated Symplectic Singularities with Trivial Fundamental Group* + **Daniel Juteau**, CNRS, Université Paris Diderot; Member, School of Mathematics + *Rationality Properties of Complex Characters of Finite Groups* + **Pham Tiep**, Rutgers, The State University of New Jersey; Member, School of Mathematics

Stability and Testability + *Ultrametric Stability Problems* + **Francesco Fournier Facio**, Eidgenössische Technische Hochschule Zürich

### April 1

Joint IAS/Princeton University Number Theory Seminar + *Eisenstein Series,  $p$ -adic Deformations, Galois Representations, and the Group  $G_2$*  + **Sam Mundy**, Columbia University

Moonshine Seminar

Quantum Groups Seminar + *Quantum Groups at Roots of Unity* + **Jay Taylor**, University of Southern California; Member, School of Mathematics

Workshop on Representation Theory and Geometry + *A Hecke Action on the Principal Block of a Semisimple Algebraic Group* + **Simon Riche**, Université Paris 6; Member, School of Mathematics + *Approximating Tilting Modules* + **Peter Fiebig**, Friedrich-Alexander-Universität Erlangen-Nürnberg; Member, School of Mathematics + *Stokes Phenomena, Poisson-Lie Groups and Quantum Groups* + **Valerio Toledano Laredo**, Northeastern University; Member, School of Mathematics

### April 2

Workshop on Representation Theory and Geometry + *Representations of  $p$ -adic Groups* + **Jessica Fintzen**, University of Cambridge and Duke University; Member, School of Mathematics + *Lax 2-Tensor Constructions* + **Raphaël Rouquier**, University of California, Los Angeles; Member, School of Mathematics + *Double Covers of Tori and the Local Langlands Correspondence* + **Tasho Kaletha**, University of Michigan

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Categorical Non-Properness in Wrapped Floer Theory* + **Sheel Ganatra**, University of Southern California

Workshop on Topology: Identifying Order in Complex Systems + *The Missing Link* + **Vidit Nanda**, University of Oxford

### April 3

Workshop on Representation Theory and Geometry + *Towards Derived Satake Equivalence for Symmetric Varieties* + **Tsao Hsien Chen**, University of Minnesota Twin Cities; Member, School of Mathematics + *Flag Manifolds over Semifields II* + **Xuhua He**, Chinese University of Hong Kong; Member, School of Mathematics + *The Drinfeld-Sokolov Reduction of Admissible Representations of Affine Lie Algebras* + **Gurbir Dhillon**, Yale University

### April 5

Computer Science/Discrete Mathematics Seminar I + *Pandora's Box with Correlations: Learning and Approximation* + **Shuchi Chawla**, University of Wisconsin-Madison

Members' Colloquium + *The Earth's Dynamo: A Mathematical Model* + **Susan Friedlander**, University of Southern California; Member, School of Mathematics

Analysis Seminar + *Yang-Mills Instantons, Quivers and Bows* + **Sergey Cherkis**, University of Arizona; Member, School of Mathematics

### April 6

Working Group on Stratified Homotopy Theory + *Stratified Étale Homotopy Theory and Galois Categories* + **Zhiyu Zhang**, Massachusetts Institute of Technology

Computer Science/Discrete Mathematics Seminar II + *How Difficult Is It to Certify That a Random 3SAT Formula Is Unsatisfiable?* + **Toniann Pitassi**, University of Toronto; Visiting Professor, School of Mathematics

### April 7

Mathematical Conversations + *For a Given Finite Group  $G$ , Which Spaces Can Be the Fixed Point Set of a  $G$ -Action on a Given Compact Space?* + **Sylvain Cappell**, New York University

Stability and Testability + *Approximations of Infinite Groups* + **Goulnara Arzhantseva**, Universität Wien

Geometric and Modular Representation Theory Seminar + *K-Motives and Koszul Duality in Geometric Representation Theory* + **Jens Eberhardt**, Max Planck Institute

### April 8

Joint IAS/Princeton University Number Theory Seminar + *Low Moments of Character Sums* + **Adam Harper**, University of Warwick

Moonshine Seminar

Quantum Groups Seminar + *Representations of Quantum Groups at Roots of 1* + **Jize Yu**, Member, School of Mathematics

#### April 9

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Relative Quantum Cohomology and Other Stories* + **Sara Tukachinsky**, Member, School of Mathematics

#### April 12

Computer Science/Discrete Mathematics Seminar I + *Privacy as Stability, for Generalization* + **Katrina Legitt**, Hebrew University of Jerusalem

Members' Colloquium + *Character Bounds for Finite Simple Groups* + **Pham Tiep**, Rutgers, The State University of New Jersey; Member, School of Mathematics

Analysis Seminar + *Long Time Dynamics of 2D Euler and Nonlinear Inviscid Damping* + **Hao Jia**, University of Minnesota Twin Cities

#### April 13

SL2 Seminar + *Meldings and the Codimension-Three Conjecture* + **Kari Vilonen**, University of Melbourne

Working Group on Stratified Homotopy Theory + *Pyknotic/Condensed Mathematics and  $l$ -adic Exodromy Theorem* + **Linus Hamann**, Princeton University

#### April 14

Mathematical Conversations + *Embedding Symplectic Ellipsoids and Diophantine Equations* + **Dusa McDuff**, Barnard College, Columbia University

Geometric and Modular Representation Theory Seminar + *Microlocal Sheaves on Certain Affine Springer Fibers* + **Zhiwei Yun**, Massachusetts Institute of Technology

#### April 15

Joint IAS/Princeton University Number Theory Seminar + *Beilinson-Bloch Conjecture for Unitary Shimura Varieties* + **Chao Li**, Columbia University

Moonshine Seminar

Quantum Groups Seminar + *Representations of Quantum Groups at Roots of 1* + **Jize Yu**, Member, School of Mathematics

#### April 16

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Maxim Jeffs**, Harvard University; **Côme Dattin**, University of Nante; **Bingyu Zhang**, Université Grenoble Alpes

Workshop on Topology: Identifying Order in Complex Systems + *From Geometry to Topology: Inverse Theorems for Distributed Persistence* + **Paul Bendich**, Duke University

#### April 19

Analysis Seminar + *From Hyperbolic Billiards to Statistical Physics* + **Peter Nandori**, Yeshiva University; Member, School of Mathematics

Marston Morse Lectures + *Statistical Physics of Random CSPs* + **Nike Sun**, Massachusetts Institute of Technology

#### April 20

SL2 Seminar + *Perverse Sheaves on Grassmannians via Microlocal Geometry* + **Tom Braden**, University of Massachusetts Amherst; Member, School of Mathematics

Computer Science/Discrete Mathematics Seminar II + *On Chen's Recent Breakthrough on the Kannan-Lovasz-Simonovits Conjecture and Bourgain's Slicing Problem* + **Ronen Eldan**, Weizmann Institute of Science; Visitor, School of Mathematics

#### April 21

Mathematical Conversations + *Floer's Jungle: 35 Years of Floer Theory* + **Siobhan Roberts**, Independent Scholar; **Helmut Hofer**, Hermann Weyl Professor, School of Mathematics

Marston Morse Lectures + *Probabilistic Analysis of Random CSPs* + **Nike Sun**, Massachusetts Institute of Technology

#### April 22

Joint IAS/Princeton University Number Theory Seminar + *Kolyagin's Conjecture and Higher Congruences of Modular Forms* + **Naomi Sweeting**, Harvard University

Moonshine Seminar

Quantum Groups Seminar + *Kazhdan-Lusztig Category* + **Jin Cheng Guu**, Stony Brook University

#### April 23

Marston Morse Lectures + *On the Ising Perceptron Model* + **Nike Sun**, Massachusetts Institute of Technology

#### April 26

Analysis Seminar + *Mean Curvature Flow in High Co-Dimension* + **William Minicozzi**, Massachusetts Institute of Technology

Computer Science/Discrete Mathematics Seminar II + *On Chen's Recent Breakthrough on the Kannan-Lovasz-Simonovits Conjecture and Bourgain's Slicing Problem—Part II* + **Ronen Eldan**, Weizmann Institute of Science; Visitor, School of Mathematics

#### April 27

SL2 Seminar + *Invariance and Monodromy of Microlocal Sheaves* + **David Nadler**, University of California, Berkeley

#### April 28

Mathematical Conversations + *Math and Computation: Some Principles, Anecdotes and Questions* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

#### April 29

Joint IAS/Princeton University Number Theory Seminar + *On the Canonical,  $fpqc$  and Finite Topologies: Classical Questions, New Answers (And Conversely)* + **Yves Andre**, Institut de Mathématiques de Jussieu-Paris Rive Gauche

Moonshine Seminar

#### April 30

Workshop on Topology: Identifying Order in Complex Systems + *Twisted Topological Tangles or: The Knot Theory of Knitting* + **Elisabetta Matsumoto**, Georgia Institute of Technology

#### May 3

Members' Colloquium + *Addressing the Growing Distrust in Algorithms with Mathematics* + **Shafi Goldwasser**, University of California, Berkeley; Visiting Professor, School of Mathematics

Analysis Seminar + *Korevaar-Schoen Energy Revisited* + **Nicola Gigli**, International School for Advanced Studies (SISSA)

#### May 4

Computer Science/Discrete Mathematics Seminar II + *On Chen's Recent Breakthrough on the Kannan-Lovasz-Simonovits Conjecture and Bourgain's Slicing Problem—Part III* + **Ronen Eldan**, Weizmann Institute of Science; Visitor, School of Mathematics

#### May 5

Mathematical Conversations + *Discrete Random Surfaces* + **Amol Aggarwal**, Columbia University

Geometric and Modular Representation Theory Seminar + *Towards a Modular "2 Realizations" Equivalence* + **Simon Riche**, Université Clermont Auvergne; Member, School of Mathematics

#### May 6

Joint IAS/Princeton University Number Theory Seminar + *Groups with Bounded Generation: Old and New* + **Andrei S. Rapinchuk**, University of Virginia

Moonshine Seminar

Quantum Groups Seminar + *Kazhdan-Lusztig Category* + **Jin Cheng Guu**, Stony Brook University

May 7

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Unexpected Fillings, Singularities, and Plane Curve Arrangements* + **Laura Starkston**, University of California, Davis

May 10

Computer Science/Discrete Mathematics Seminar I + *A Complexity-Theoretic Perspective on Fairness* + **Michael P. Kim**, University of California, Berkeley; Visitor, School of Mathematics

May 11

SL2 Seminar + *Automorphic Gluing Functor in Betti Geometric Langlands* + **David Nadler**, University of California, Berkeley

May 12

Mathematical Conversations + *Symmetries in Symbolic Dynamics* + **Bryna Kra**, Northwestern University

Celebration of Women in Mathematics + *Interview with Dr. Monica Vazirani* + **Monica Vazirani**, University of California, Davis

Geometric and Modular Representation Theory Seminar + *Frobenius Exact Symmetric Tensor Categories* + **Pavel Etingof**, Massachusetts Institute of Technology

May 13

Joint IAS/Princeton University Number Theory Seminar + *Expansion and Parity* + **Maksym Radziwill**, California Institute of Technology

Quantum Groups Seminar + *Kazhdan-Lusztig Equivalence* + **Pablo Boixeda Alvarez**, Member, School of Mathematics

May 14

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Caustics of Lagrangian Homotopy Spheres with Stably Trivial Gauss Map* + **Daniel Alvarez Gavela**, Massachusetts Institute of Technology

May 17

Analysis Seminar + *Eigenfunction Concentration via Geodesic Beams* + **Yaiza Canzani**, University of North Carolina

May 24

2021 Women and Mathematics + *Representation Theory & Combinatorics of the Symmetric Group and Related Structures* + **Monica Vazirani**, University of California, Davis + *Representation Theory & Categorification* + **Catharina Stroppel**, University of Bonn

Analysis Seminar + *The Schrödinger Equations as Inspiration of Beautiful Mathematics* + **Gigliola Staffilani**, Massachusetts Institute of Technology

May 25

2021 Women and Mathematics + *Representation Theory & Combinatorics of the Symmetric Group and Related Structures* + **Monica Vazirani**, University of California, Davis + *Representation Theory & Categorification* + **Catharina Stroppel**, University of Bonn

May 26

2021 Women and Mathematics + *Geometric Categorifications of the Hecke Algebra* + **Laura Rider**, University of Georgia + *Beyond Abstract Algebra* + **Chelsea Walton**, Rice University

May 27

Joint IAS/Princeton University Number Theory Seminar + *Character Estimates for Classical Finite Simple Groups* + **Michael Larsen**, Indiana University, Bloomington

2021 Women and Mathematics + *Representation Theory & Combinatorics of the Symmetric Group and Related Structures* + **Monica Vazirani**, University of California, Davis + *Representation Theory & Categorification* + **Catharina Stroppel**, University of Bonn

Quantum Groups Seminar + *Kazhdan-Lusztig Equivalence* + **Pablo Boixeda Alvarez**, Member, School of Mathematics

May 28

2021 Women and Mathematics + *Representation Theory & Combinatorics of the Symmetric Group and Related Structures* + **Monica Vazirani**, University of California, Davis + *Representation Theory & Categorification* + **Catharina Stroppel**, University of Bonn

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Oguz Savk**, Boğaziçi University; **Irene Seifert**, Heidelberg University; **Hang Yuan**, Stony Brook University

June 4

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Degenerations of Kähler Forms on K3 Surfaces, and Some Dynamics* + **Simion Filip**, University of Chicago

June 7

Analysis Seminar + *Geodesics and Laplace Spectrum on 3D Contact Sub-Riemannian Manifolds: The Reeb Flow* + **Yves Colin De Verdiere**, Institut Fourier

June 8

Computer Science/Discrete Mathematics Reading Seminar + *A Universal Law of Robustness via Isoperimetry—A Paper by Bubeck and Sellke* + **Ronen Eldan**, Weizmann Institute of Science; Visitor, School of Mathematics

June 11

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *The Homotopy Type of the Space of Tight Contact Structures and the Overtwisted Mirage* + **Francisco Presas**, Instituto de Ciencias Matemáticas (ICMAT)

June 14

Analysis Seminar + *Local Dissipation of Energy for Continuous Incompressible Euler Flows* + **Phillip Isett**, University of Texas at Austin, California Institute of Technology

June 18

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *On the Spatial Restricted Three-Body Problem* + **Agustin Moreno**, Uppsala University

June 22

Computer Science/Discrete Mathematics Reading Seminar + *Tensor Rank* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

June 25

Joint IAS/Princeton/Montreal/Paris/Tel Aviv Symplectic Geometry Zoominar + *Three 20 Minute Research Talks* + **Mohan Swaminathan**, Princeton University; **Ben Wormleighton**, Washington University; **Jonathan Zung**, Princeton University

## School of Natural Sciences

### ASTROPHYSICS EVENTS

November 2

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Robust Measurements of the Large-Scale Clustering of Galaxies and Quasars* + **Mehdi Rezaie**, Ohio University

November 3

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Galactic Archaeology with Gaia and Large Spectroscopic Surveys* + **Keith Hawkins**, University of Texas at Austin

November 5

Institute for Advanced Study Astrophysics Seminar + *Wave Dark Matter* + **Lam Hui**, Columbia University

November 9

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *A New Calibration Method of Sub-Halo Orbital Evolution for Semi-Analytic Models* + **Shengqi Yang**, New York University + *Iterative Optimal Filtering for CMB Maps* + **Adri Duivenvoorden**, Princeton University

### November 10

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *2020 Update on JWST: Time Domain, Cluster Lensing and Caustic Transit Searches for First Light Objects* + **Rogier Windhorst**, Arizona State University

### November 12

Institute for Advanced Study Astrophysics Seminar + *White Dwarfs in the HET Dark Energy Experiment* + **Barbara Castanheira-Endl**, Baylor University

### November 16

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Binning Is Sinning: Clustering Estimation Without Bins* + **Kate Storey-Fisher**, New York University + *A New Paradigm for Particle Cosmology* + **Azadeh Maleknejad**, CERN

### November 17

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *New Probes of Black Hole Variability* + **Daryl Haggard**, McGill University

### November 19

Institute for Advanced Study Astrophysics Seminar + *Venus: Moment of Inertia and Length of Day* + **Jean-Luc Margot**, University of California, Los Angeles

### November 23

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Tutorial on the EFT-Based Full-Shape Likelihood* + **Misha Ivanov**, New York University, and collaborators

### November 24

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Galaxy Clusters: The Largest Particle Accelerators in the Universe* + **Gianfranco Brunetti**, IRA-INAF

### November 30

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Galaxy Power Spectrum in General Relativity* + **Nastassia Grimm**, Zurich University + *Towards the Ultimate Cosmological Estimator* + **Francisco Villaescusa-Navarro**, Princeton University

### December 1

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *The NASA Parker Solar Probe Mission at the Edge of the Solar Streamer Belt* + **Stuart Bale**, University of California, Berkeley

### December 3

Institute for Advanced Study Astrophysics Seminar + *Characterizing the Architectures of Planetary Populations with Kepler and Next-Generation Doppler Surveys* + **Eric Ford**, Penn State University

### December 7

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Tutorial on ACT DR4* + **Zach Atkins**, Princeton University

### December 14

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *General Discussion* + **Giovanni Cabass**, Member, School of Natural Sciences

### January 25

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Measurements of the Kinetic Sunyaev Zel'dovich Effect Without Bias From Velocity Reconstruction: A Forward Modeling Approach* + **Minh Nguyen**, Max-Planck-Institut für Astrophysik

### February 1

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *KSZ Velocity Reconstruction: Properties From N-body Simulations and the Halo Model* + **Utkarsh Giri**, Perimeter Institute

### February 2

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *The Impact of Cosmic-Rays on Galaxy Formation* + **Eliot Quataert**, Princeton University

### February 4

Institute for Advanced Study Astrophysics Seminar + *Constraining the Neutron Star Equation of State with Gravitational Wave Events* + **Carolyn Raithel**, Member, School of Natural Sciences

### February 8

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *What is the Price of Abandoning Dark Matter? Cosmological Constraints on Alternative Gravity Theories* + **David Spergel**, Princeton University

### February 9

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Black Hole Physics at the Horizon Scale* + **Feryal Ozel**, University of Arizona

### February 11

Institute for Advanced Study Astrophysics Seminar + *Structure and Dynamics of the Galactic Stellar Halo* + **Helmer Koppelman**, Member, School of Natural Sciences

### February 16

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Cosmology with Gravitational Lens Time Delays* + **Sherry Suyu**, Max Planck Institute for Astrophysics

### February 18

Institute for Advanced Study Astrophysics Seminar + *Zoology of Graviton Non-Gaussianities During Inflation* + **Giovanni Cabass**, Member, School of Natural Sciences

### February 22

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *General Discussion* + **Giovanni Cabass**, Member, School of Natural Sciences

### February 23

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Probing Red Giants with Kepler* + **Jørgen Christensen-Dalsgaard**, Aarhus University

### February 25

Institute for Advanced Study Astrophysics Seminar + *Star Formation and Feedback in Low-Mass Molecular Clouds—a 3D View* + **Steffi Walch-Gassner**, University of Cologne

### March 1

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Information Content of Higher-Order Galaxy Correlation Functions* + **Lado Samushia**, Kansas State University; **Francisco Villaescusa-Navarro**, Princeton University

### March 2

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Making Sense of Stellar Rotation in Low Mass Stars: Gyrochronology, Magnetism, and a Sun in Transition* + **Jennifer van Saders**, University of Hawaii

### March 4

Institute for Advanced Study Astrophysics Seminar + *Cosmology and More, From ACT* + **Jo Dunkley**, Princeton University; Member, School of Natural Sciences

### March 8

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Constraining the Nature of Dark Matter with Stellar Streams in the Milky Way* + **Jo Bovy**, University of Toronto

### March 11

Institute for Advanced Study Astrophysics Seminar + *Stellar Clustering Connecting the Formation and Evolution of Galaxies to the Formation and Evolution of Us* + **Diederik Kruijssen**, University of Heidelberg



### March 15

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *From Locality and Unitarity to Cosmological Correlators* + **Sadra Jazayeri**, Institut d'Astrophysique de Paris

### March 16

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *From Galaxies to Faces: Recognizing the Implications of Artificial Intelligence in Astronomy and Society* + **Brian Nord**, University of Chicago and Fermilab

### March 18

Institute for Advanced Study Astrophysics Seminar + *Instabilities and Dissipation in Collisionless Magnetized Turbulence* + **Lev Arzamasskiy**, Member, School of Natural Sciences

### March 22

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Strong Lensing of Gravitational Waves* + **Macarena Lagos**, Columbia University + *Beyond Perturbation Theory in Inflation* + **Paolo Creminelli**, International Centre for Theoretical Physics (ICTP)

### March 23

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *The Nearby Universe—A Laboratory to Study the Cosmic Build-up of Dust and Metals in Galaxies* + **Julia Roman-Duval**, Space Telescope Science Institute

### March 25

Institute for Advanced Study Astrophysics Seminar + *Constraints on the Maximum Mass of Neutron Stars from Gravitational Wave Events and Prospects for Electromagnetic Precursor Emission from Inspiralling Neutron Star Binaries* + **Elias Most**, Member, School of Natural Sciences

### March 29

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Merging Deep Learning with Physical Models for the Analysis of Modern Cosmological Surveys* + **François Lanusse**, CosmoStat Laboratory at CEA Saclay + *Cosmology with Cluster Weak Lensing* + **David Weinberg**, Ohio State University; Member, School of Natural Sciences

### March 30

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *A NICER View of Neutron Stars* + **Anna Watts**, University of Amsterdam

### April 1

Institute for Advanced Study Astrophysics Seminar + *Tidal Deformation and Dissipation of Rotating Black Holes* + **Hong Sheng Chia**, Member, School of Natural Sciences

### April 5

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Self-Interacting Neutrinos, the Hubble Parameter Tension, and the Cosmic Microwave Background* + **Thejs Brinckmann**, Stony Brook University; **Adri Duivenvoorde**, Princeton University

### April 6

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Protoplanetary Disk Structure and Young Planet Population* + **Zhaohuan Zhu**, University of Nevada, Las Vegas

### April 8

Institute for Advanced Study Astrophysics Seminar + *Some Trends in Milky Way Research* + **Ken Freeman**, Australian National University

### April 12

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *How, and How Not, to Obtain the Redshift Distribution from Probabilistic Photometric Redshifts* + **Alex Malz**, German Centre of Cosmological Lensing

### April 13

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Unveiling the Secrets of Jupiter with the Juno Mission* + **Yamila Miguel**, Leiden Observatory

### April 15

Institute for Advanced Study Astrophysics Seminar + *Constraints to Ultralight Axion Dark Matter Particles Mass: the Effect of Self-Interactions* + **Alma González-Morales**, Universidad de Guanajuato

### April 19

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Exploring Fundamental Physics with Friends and Neighbors* + **Zachary Slepian**, Florida University

### April 20

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *Exoplanets and the Search for Extraterrestrial Life* + **Ignas Snellen**, Leiden Observatory

### April 26

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Topics in Inflationary Cosmology: Reheating, Gauge Fields and Gravitational Waves* + **Kaloian Lozanov**, University of Illinois at Urbana-Champaign

### April 27

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium + *The Inner Workings of Starbursts* + **Alberto Bolatto**, University of Maryland

### April 29

Institute for Advanced Study Astrophysics Seminar + *R-Process Transients* + **Jennifer Barnes**, Columbia University

### May 3

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Getting Ready for Euclid, Rubin and Roman* + **Adam Amara**, Institute of Cosmology and Gravitation, Portsmouth + *General Discussion* + **Kazuyuki Akitsu**, Member, School of Natural Sciences

### May 6

Institute for Advanced Study Astrophysics Seminar + *Powerful Activity in Galaxies—the Wonder Years (aka Generation Alpha)* + **Steffi Baum**, University of Manitoba

### May 10

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Narrowing the Mass Range of Ultra-light Dark Matter* + **Elisa Ferreira**, Max Planck Institute for Astrophysics, Garching + *Paper Presentation on CosmicRIM* + **Chirag Modi**, Flatiron Institute

### May 13

Institute for Advanced Study Astrophysics Seminar + *Physics of Enigmatic Fast Radio Bursts* + **Pawan Kumar**, University of Texas at Austin

### May 17

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Bootstrap Rules for Cosmological Correlators* + **Hayden Lee**, Harvard University + *Narrowing the Mass Range of Ultra-light Dark Matter* + **Elisa Ferreira**, Max Planck Institute for Astrophysics

### May 24

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion + *Unlocking the Nature of Dark Matter with Gravitational Lensing* + **Cora Dvorkin**, Harvard University + *Massive Galileons and Vainshtein Screening: A Numerical Perspective* + **Daniela Saadeh**, University of Portsmouth

## HIGH ENERGY THEORY ACTIVITIES

### September 14

High Energy Theory Seminar + *Non-Symmetries, Naturalness, and Two-Dimensional Adjoint QCD* + **Zohar Komargodski**, Simons Center for Geometry and Physics, Stony Brook University

### September 18

High Energy Theory Seminar + *Light-Rays and Detectors in Wilson-Fisher Theory* + **Petr Kravchuk**, Member, School of Natural Sciences

### September 23

Physics Group Meeting + *A Primer on Quantum Shannon Theory* + **Adam Levine**, Member, School of Natural Sciences

### September 28

High Energy Theory Seminar + *The Holographic Map as a Conditional Expectation* + **Thomas Faulkner**, University of Illinois at Urbana-Champaign

### September 30

Physics Group Meeting + *Introduction to Min and Max Entropies* + **Edward Witten**, Charles Simonyi Professor, School of Natural Sciences

### October 2

High Energy Theory Seminar + *Dispersive CFT Sum Rules* + **Dalimil Mazac**, Member, School of Natural Sciences

### October 12

High Energy Theory Seminar + *Compressible Quantum Matter: General Constraints, Emergent Symmetries, and Anomalies* + **Senthil Todadri**, Massachusetts Institute of Technology

### October 14

Physics Group Meeting + *Turbulence, CFT and Random Geometry* + **Yaron Oz**, Tel Aviv University; Member, School of Natural Sciences

### October 16

High Energy Theory Seminar + *Exact Models of Many-body Quantum Scars* + **Fiona Burnell**, University of Minnesota Twin Cities; Junior Visiting Professor, School of Natural Sciences

### October 21

Physics Group Meeting + *Discreteness and Integrality in 2D CFT* + **Sridip Pal**, Member, School of Natural Sciences

### October 26

High Energy Theory Seminar + *Leading Order Corrections to the Quantum Extremal Surface Prescription* + **Geoffrey Penington**, University of California, Berkeley

### October 28

Physics Group Meeting + *Open Quantum Field Theory and Holography* + **Felix Haehl**, Member, School of Natural Sciences

### October 30

High Energy Theory Seminar + *Some Comments on Wormholes and Factorization* + **Phil Saad**, Member, School of Natural Sciences

### November 9

High Energy Theory Seminar + *Adventures in Gapless Topological Phases* + **Ryan Thorngren**, Harvard University

### November 11

Physics Group Meeting + *Feynman Integrals and Intersection Theory* + **Sebastian Mizera**, Member, School of Natural Sciences

### November 13

High Energy Theory Seminar + *Universality in Asymptotic Bounds and their Saturation in 2D CFT* + **Sridip Pal**, Member, School of Natural Sciences

### November 23

High Energy Theory Seminar + *Progress on Celestial Holography* + **Andrew Strominger**, Harvard University

### December 2

Physics Group Meeting + *Signatures of Global Symmetry Violation in Relative Entropies and Replica Wormholes* + **Henry Lin**, Princeton University

### December 7–9

Workshop on Qubits and Black Holes + *Free Energy from Replica Wormholes* + **Netta Engelhardt**, Massachusetts Institute of Technology + *Quantum Tasks in Holography* + **Alex May**, University of British Columbia + *Real-Time Gravitational Replicas* + **Mukund Rangamani**, University of California, Davis + *Pseudorandomness and the AdS/CFT Correspondence* + **Adam Boulund**, University of California, Berkeley + *Liouville and JT Quantum Gravity—Holography and Matrix Models* + **Thomas Mertens**, Ghent University + *Entropic Order Parameters for the Phases of QFT* + **Javier Magan**, Instituto Balseiro, Centro Atómico de Bariloche + *Programmable Non-Local Interactions: Towards Fast Scrambling with Cold Atoms* + **Monika Schleier-Smith**, Stanford University + *Comments about Wormholes and Quantum Noise* + **Douglas Stanford**, Stanford University + *Some Comments on Energy Inequalities* + **Edward Witten**, Charles Simonyi Professor, School of Natural Sciences + *Inside the Hologram: The Bulk Observer's Experience* + **Lampros Lamprou**, Massachusetts Institute of Technology + *Quantum Minimal Surfaces from Quantum Error Correction* + **Chris Akers**, Massachusetts Institute of Technology + *Life Without Pythons Would Be So Simple* + **Geoffrey Penington**, University of California, Berkeley

### December 11

High Energy Theory Seminar + *Twisted Holography and Koszul Duality* + **Natalie Paquette**, Member, School of Natural Sciences

### December 14

High Energy Theory Seminar + *Causality and Effective Field Theories* + **Simon Caron-Huot**, McGill University

### December 16

Physics Group Meeting + *Mathematical Challenges in Incompressible Hydrodynamics* + **Camillo De Lellis**, IBM von Neumann Professor, School of Mathematics

### January 25

High Energy Theory Seminar + *Classical Aspects of Black Hole Interiors* + **Jorrit Kruthoff**, Stanford University

### January 27

Physics Group Meeting + *Review of Neural Networks* + **Michail Tsodyks**, C. V. Starr Professor, Simons Center for Systems Biology

### January 29

High Energy Theory Seminar + *SQCD and Pairs of Pants* + **Shlomo Razamat**, Technion—Israel Institute of Technology; Junior Visiting Professor, School of Natural Sciences

### February 1

High Energy Theory Seminar + *A Categorical and Holographic View of Symmetry* + **Xiao-Gang Wen**, Massachusetts Institute of Technology

### February 15

High Energy Theory Seminar + *Fault-Tolerant Qubit from a Constant Number of Components* + **Patrick Hayden**, Stanford University

### February 17

Physics Group Meeting + *Probing Strings with Quantum Extremal Surfaces* + **Adam Levine**, Member, School of Natural Sciences

### February 19

High Energy Theory Seminar + *Comments on the Quantum Field Theory of the Coulomb Gas Formalism* + **Daniel Kapec**, Member, School of Natural Sciences

### February 24

Physics Group Meeting + *CFTs and Wightman Axioms in Higher Dimensions* + **Petr Kravchuk**, Member, School of Natural Sciences

### March 1

High Energy Theory Seminar + *Firewalls in General Relativity* + **Surjeet Rajendran**, Johns Hopkins University

### March 5

High Energy Theory Seminar + *4d Chern-Simons Theory and a Stringy Point of View on the Bethe/Gauge Correspondence for Superspin Chains* + **Nafiz Ishtiaque**, Member, School of Natural Sciences

March 15

High Energy Theory Seminar +  $N=2^*$   $SU(2)$  Supersymmetric Yang-Mills Theory and Four-Manifold Invariants + **Gregory Moore**, Rutgers, The State University of New Jersey

March 17

Physics Group Meeting + *Towards a String Dual of SYK: An Informal Discussion* + **Herman Verlinde**, Princeton University

March 19

High Energy Theory Seminar + *Size and Momentum of an Infalling Particle in the Black Hole Interior* + **Ying Zhao**, Member, School of Natural Sciences

March 25

Physics Group Meeting + *Tensor Networks and Phases of Matter: A Discussion* + **Fiona Burnell**, University of Minnesota Twin Cities; Junior Visiting Professor, School of Natural Sciences

March 29

High Energy Theory Seminar + *Some Half-Baked Thoughts about de Sitter Space* + **Leonard Susskind**, Stanford University

April 2

High Energy Theory Seminar + *Superconformal Initial Conditions of the Lightcone  $6d(2,0)$  Theory* + **Matthew Heydeman**, Member, School of Natural Sciences

April 7

Physics Group Meeting + *Chaotic Scattering of Highly Excited Strings* + **Vladimir Rosenhaus**, Member, School of Natural Sciences

April 12

High Energy Theory Seminar + *Causal Bulk Reconstruction and the Python's Lunch* + **Arvin Shahbazi-Moghaddam**, Stanford University

April 16

High Energy Theory Seminar + *Spontaneously Broken Boosts in CFTs* + **Sridip Pal**, Member, School of Natural Sciences

April 21

Physics Group Meeting + *Anomalies and Emergent Symmetries on the Lattice and in the Continuum* + **Shu-Heng Shao**, Member, School of Natural Sciences

April 26

High Energy Theory Seminar + *Khovanov Homology from Mirror Symmetry* + **Mina Aganagic**, University of California, Berkeley

April 30

High Energy Theory Seminar + *Worksheet Correlators in AdS3* + **Lorenz Eberhardt**, Member, School of Natural Sciences

May 3

High Energy Theory Seminar + *Conformal Colliders Meet the LHC* + **Ian Moutl**, Stanford University

May 5

Physics Group Meeting + *Review of Measurement-Induced Dynamic Quantum Phase Transitions* + **David Huse**, Princeton University

May 17

High Energy Theory Seminar + *Superstring Amplitudes in Genus 0 and Double Copy* + **Francis Brown**, University of Oxford

June 7

High Energy Theory Seminar + *Quantum Computing and the Difficulty of Simulating Quantum Many-Body Systems* + **Ignacio Cirac**, Max-Planck Institut für Quantenoptik

July 9

High Energy Theory Seminar + *Naturalness and Muon Anomalous Magnetic Moment* + **Keisuke Harigaya**, Member, School of Natural Sciences

July 23

High Energy Theory Seminar + *The p-spin Glass Model: A Holographer's Perspective* + **Felix Haehl**, Member, School of Natural Sciences

## SIMONS CENTER FOR SYSTEMS BIOLOGY EVENTS

July 16

Mathematical Physics Webinar Rutgers University + *Thermalized sheets, shells and cylinders: curvature matters* + **David Nelson**, Harvard University

August 6

Mathematical Physics Seminar Rutgers University + *Active processes for deriving observed deviations from equilibrium distributions* + **Christian Maes**, KU Leuven

August 20

Mathematical Physics Seminar Rutgers University + *Apparent action-at-a-distance in gene regulation* + **William Bialek**, Princeton University and The City University of New York Graduate Center

September 16

Mathematical Physics Seminar Rutgers University + *Duality and boundary-driven non-equilibrium systems* + **Cristian Giardinà**, Modena and Reggio Emilia University

October 13

Cancer Convergence Education Network Seminar + *Understanding cancer evasion of apoptosis and how to restore it to foster precision medicine* + **Joan Montero**, Institute for Bioengineering of Catalonia

October 20

Cancer Convergence Education Network Seminar + *On a "Hunt" for immunogenic neoantigens (Cancer-specific gene expression errors as*

*a novel source of shared neoantigens)* + **Vladimir Roudko**, Memorial Sloan Kettering Cancer Center

October 21

Mathematical Physics Seminar Rutgers University + *Sloppy models, differential geometry, and why science works* + **James P. Sethna**, Cornell University

November 3

Cancer Convergence Education Network Seminar + *Harnessing NK cells to the treatment of cancer* + **Michal Sheffer**, Dana Farber Cancer Institute

November 4

Mathematical Physics Seminar Rutgers University + *Dynamical Landscape and Multistability of the Earth's Climate* + **Valerio Lucarini**, University of Reading

November 10

Cancer Convergence Education Network Seminar + *Targeting Repeat RNAs in Cancer* + **Mihir Rajukar**, Harvard University

November 16

Cancer Convergence Education Network Seminar + *Mathematical modeling and control of cancer networks: applications to metastatic reprogramming and cancer drug resistance* + **Jorge Gómez Tejada Zañudo**, Dana Farber Cancer Institute

November 18

Cancer Convergence Education Network Seminar + *T cell response to SARS-COV-2* + **Harlan Robins**, Adaptive Biotechnologies

November 24

Cancer Convergence Education Network Seminar + *On HLA expression and immune escape* + **Ioan Filip**, Columbia University

November 25

Mathematical Physics Seminar Rutgers University + *Population extinction and growth on a fluctuating fitness seascape* + **Mehran Kardar**, Massachusetts Institute of Technology

December 7

Cancer Convergence Education Network Seminar + *Mobile repeat elements in cancer* + **Alexander Solovyov**, Memorial Sloan Kettering Cancer Center

December 9

Cancer Convergence Education Network Seminar + *Viruses Decoded* + **Raúl Rabadán**, Columbia University

December 15

Cancer Convergence Education Network Seminar + *The evolutionary dynamics and fitness landscape of Clonal Hematopoiesis and Acute Myeloid Leukemia* + **Caroline Watson**, University of Cambridge

## January 5

Cancer Convergence Education Network Seminar + *Ex-vivo stimulation of CAR T cell pre-infusion products predicts clinical response in pediatric ALL* + **Steven Woodhouse**, University of Pennsylvania

## January 20

Cancer Convergence Education Network Seminar + *Diversity and Similarity in the Adaptive Immune System* + **Yuval Elhanati**, Memorial Sloan Kettering Cancer Center

## February 10

Cancer Convergence Education Network Seminar + *COVID-19 genetic arms race: evolution and treatment* + **Mickey Atwal**, Cold Spring Harbor Laboratory/Regeneron

## February 10

Mathematical Physics Webinar Rutgers University + *Ecological Chaos and Microbial Diversity* + **Daniel Fisher**, Stanford University

## February 17

Mathematical Physics Seminar Rutgers University + *The life and death of turbulence* + **Nigel Goldenfeld**, University of Illinois at Urbana-Champaign

## February 24

Mathematical Physics Seminar Rutgers University + *Self-propelled Topological Defects* + **Julia M. Yeomans**, University of Oxford

## March 10

Mathematical Physics Seminar Rutgers University + *Modeling sea ice in a warming climate* + **Kenneth M. Golden**, University of Utah

## March 17

Mathematical Physics Seminar Rutgers University + *A dynamical model of the visual cortex* + **Lai-Sang Young**, New York University

## March 24

Mathematical Physics Seminar Rutgers University + *Active Topology* + **Cristina Marchetti**, University of California, Santa Barbara

## March 24

Cancer Convergence Education Network Seminar + *Is aging a genetically-transmitted viral disease?* + **Andrei Gudkov**, Roswell Park Comprehensive Cancer Center

## April 21

Mathematical Physics Seminar Rutgers University + *Multiple Equilibria and Resilience in Large Complex Systems: beyond May-Wigner model* + **Yan Fyodorov**, King's College London

## May 5

Mathematical Physics Webinar Rutgers University + *Geometry of Concept Manifolds* + **Haim Sompolinsky**, Hebrew University and Harvard University

## May 12

Mathematical Physics Seminar Rutgers University + *Statistical physics of learning in neural networks: the importance of data structure* + **Marc Mézard**, Laboratoire de Physique de l'École normale supérieure, PSL University, Paris

## May 19

Mathematical Physics Seminar Rutgers University + *Vector computations in the fly brain* + **Larry Abbott**, Columbia University

## June 7

Cancer Convergence Education Network Seminar + *Probing Metabolism with Imaging Mass Spectrometry* + **Shawn Davidson**, Princeton University

## June 16

Mathematical Physics Seminar Rutgers University + *Entropy and entropoids* + **Daan Frenkel**, University of Cambridge

## June 30

Mathematical Physics Seminar Rutgers University + *Analogies and differences between equilibrium and non-equilibrium thermodynamics of classical systems* + **Giovanni Jona-Lasinio**, Sapienza University of Rome

## July 12

Cancer Convergence Education Network Informal Talks from Convergence 3 + *Probing tumor-immune interactions using organoid-based cancer models* + **Tyler Jacks**, Massachusetts Institute of Technology + *Probing tumor metabolism using Iso-imaging* + **Shawn Davidson**, Princeton University + *The p53 proline domain: hot spot mutations, phenotypes and protein-protein interactions* + **Arnold J. Levine**, Professor Emeritus, School of Natural Sciences

## July 19–20

Cancer Convergence Education Network Workshop on Cancer Interception + *Understanding blood cancers through the lens of evolution* + **Jamie Blundell**, University of Cambridge + *Random Matrix Theory* + **Raúl Rabadán**, Columbia University + *Decoding the Tumor Immune Microenvironment of Human Lung Cancer* + **Kurt Schaller**, Yale University + *T cell Receptors, AI and Cancer* + **Harlan Robins**, Adaptive Biotechnologies + *Rethinking Cancer Diagnosis and Cure with AI* + **Regina Barzilay**, Massachusetts Institute of Technology + *AI Driven Molecular Design and Therapeutics* + **Tommi Jaakkola**, Massachusetts Institute of Technology + *Multomic Single Cell Sequencing Facilitates Accurate Deep Learning Prediction of TCR-Antigen Binding* + **Mickey Atwal**, CSHL/Regeneron + *Detect and treat: A Theranostic Approach* + **Julie**

**Sutcliffe**, University of California, Davis + *First and Next Generation KRAS Inhibitors* + **Kevan Shokat**, University of California, San Francisco + *Considerations for Health Disparities and Economic Outcomes* + **Cathy Bradley**, University of Colorado + *Improved Survival but Continued Disparities in Cancer: Planning the Future with Precision Oncology but Assessing the Past through the Rear-View Mirror* + **Edith Mitchell**, Sidney Kimmel Cancer Center, Thomas Jefferson University + *New Technologies; Geographies of Inequality* + **Barbara Harthorn**, University of California, Santa Barbara + *Towards a World without Disease* + **William Hait**, J&J Innovation + *Novel instrumentation for cancer research* + **Scott Manalis**, Massachusetts Institute of Technology + *Inducing Antigen-specific T cells with Engineered Commensals* + **Michael Fischbach**, Stanford University + *Single Cell Sequencing Uncovers the Immune System's Response to Tumors* + **Drew Pardoll**, Johns Hopkins Medical School

## July 26

Cancer Convergence Education Network Informal Talks from Convergence 3 + *Some recent organoids models for human diseases* + **Hans Clevers**, Hubrecht Institute, Utrecht + *The influence of the microbiota on tumor development* + **Kenya Honda**, Keio University + *Understanding human cancer biology using organoids* + **Toshiro Sato**, Keio University

## July 28

Cancer Convergence Education Network Informal Talks from Convergence 3 + *Modeling microbe-human interactions at the intestinal mucosa* + **Man-Wah Tan**, Genentech + *Novel instrumentation for cancer research* + **Scott Manalis**, Massachusetts Institute of Technology + *Organoid modeling of intra-tumoral and peripheral immune interactions* + **Calvin Kuo**, Stanford University + *Dissecting plasticity in advanced human cancer* + **Karuna Ganesh**, Memorial Sloan Kettering Cancer Center + *Inducing antigen-specific T cells with engineered commensals* + **Michael Fischbach**, Stanford University

## August 11

Mathematical Physics Seminar Rutgers University + *What can Maxwell's demon do? An experimental and theoretical study of the factors that limit the performance of information-fueled engines* + **John Bechhoefer**, Simon Fraser University

## August 25

Mathematical Physics Seminar Rutgers University + *Embedding of Low-Dimensional Attractor Manifolds by Neural Networks* + **Remi Monasson**, École normale supérieure, Paris

## September 1

Mathematical Physics Seminar Rutgers University + *Population Dynamics in Neural Systems* + **Sara A. Solla**, Northwestern University



Another seminar series which the Members in the Simons Center for Systems Biology group attended on regular basis were the seminars at the Center for Studies in Physics and Biology at the Rockefeller University. See these links for more information and a link to the two attached Rockefeller sites.

<https://www.rockefeller.edu/research/interdisciplinary-centers/center-studies-physics-biology/seminars/>

<https://www.rockefeller.edu/research/interdisciplinary-centers/center-studies-physics-biology/past-seminars/>

## School of Social Science

### September 8

Science and the State Theme Seminar  
Orientation Session

### September 17

Social Science Introductory Session  
Social Science Welcome Party

### September 21

Social Science Seminar + *The Scientist-in-Chief: Executive Authority and Technocratic Charisma in the Obama Administration* + **Alondra Nelson**, Harold F. Linder Professor, School of Social Science

### September 22

Science and the State Theme Seminar + *Science, Technology and the State: Inextricable and Co-Emergent* + Readings curated by **Alondra Nelson**, Harold F. Linder Professor, School of Social Science, and **Charis Thompson**, London School of Economics; Visiting Professor, School of Social Science

### September 28

Social Science Seminar + *Justification and Vindication in Ethics and Politics* + **David Owen**, University of Southampton; Visiting Professor, School of Social Science

### October 5

Social Science Seminar + *How Scientific Knowledge and Ignorance Build Non-issues. The Non-emergence of Environmental and Occupational Health Issues* + **Emmanuel Henry**, Université Paris-Dauphine; Member, School of Social Science

### October 6

Science and the State Theme Seminar + *Territory and Borders* + Readings curated by **Joshua Barkan**, University of Georgia; Member, School of Social Science, and **David Owen**, University of Southampton; Visiting Professor, School of Social Science

### October 12

Social Science Seminar + *Cyrus Eaton and the Battle over Pugwash Internationalism, 1957–1962* + **Waqar H. Zaidi**, Lahore University of Management Sciences; Member, School of Social Science

### October 19

Social Science Seminar + *Intimate Inscriptions: Race, Sex, Labor and the Survival of the Feudal* + **Anne Norton**, University of Pennsylvania; Member, School of Social Science

### October 20

Science and the State Theme Seminar + *State and Quantification* + Readings curated by **Florence Jany-Catrice**, Université de Lille, and **Joy Rohde**, University of Michigan, Ann Arbor; Members, School of Social Science

### October 23

Special Seminar + **Nicholas Lemann**, Columbia University

### October 26

Social Science Seminar + *High Rises. When “Social Integration” Makes “Violent Divisions”* + **Fabien Truong**, Université Paris 8; Member, School of Social Science

### October 30

On Violence Reading Group + Organized by **Nusrat Chowdhury**, Amherst College; Member, School of Social Science

### November 2

Social Science Seminar + *“Modern Life Begins with Slavery”: Toni Morrison and the Imagination of Freedom* + **Lawrie Balfour**, University of Virginia; Member, School of Social Science

### November 3

Science and the State Theme Seminar + *U.S. Election Day and the Future of the Political* + Readings curated by **Alondra Nelson**, Harold F. Linder Professor, School of Social Science, and **Charis Thompson**, London School of Economics; Visiting Professor, School of Social Science

### November 9

Social Science Seminar + *Master Peace: Violence, Expertise and Subject Formation in Lebanon* + **Nikolas Kosmatopoulos**, American University of Beirut; Member, School of Social Science

### November 13

On Violence Reading Group + Organized by **Nusrat Chowdhury**, Amherst College; Member, School of Social Science

### November 16

Social Science Seminar + *A Political Economy of Macroeconomic Indicators. Increasingly Discreet Conflicts around the Measurement of Inflation* + **Florence Jany-Catrice**, Université de Lille; Member, School of Social Science

### November 17

Science and the State Theme Seminar + *Corporations, States, and Technoscience* + Readings curated by **Emmanuel Henry**, Université Paris-Dauphine, and **Christo Sims**, University of California, San Diego; Members, School of Social Science

### November 23

Social Science Seminar + *Workers, the Fascist Allure, and the Transformation of the Left* + **David Ost**, Hobart and William Smith Colleges; Member, School of Social Science

### November 30

Social Science Seminar + *Knowledge, Behaviour, and Policy. Questioning the Epistemic Presuppositions of Behavioural Public Policymaking* + **Magdalena Malecka**, University of Helsinki; Member, School of Social Science

### December 1

Science and the State Theme Seminar + *Climate Change and the State* + Readings curated by **Alondra Nelson**, Harold F. Linder Professor, School of Social Science, **Ryo Morimoto**, Princeton University, and **Sarah E. Vaughn**, University of California, Berkeley; Members, School of Social Science

### December 7

Social Science Seminar + *Mekonsippi: The Politics and Poetics of Black Anti-Vietnam War Activism* + **Robyn C. Spencer**, Lehman College, The City University of New York; Member, School of Social Science

### December 8

Reading Group organized by **Alondra Nelson**, Harold F. Linder Professor, School of Social Science

### December 11

On Violence Reading Group + Organized by **Nusrat Chowdhury**, Amherst College; Member, School of Social Science

### December 14

Social Science Seminar + *Computation, Evolution, Construction: Three Tools for Re-Imagining the Social* + **Jacob Gates Foster**, University of California, Los Angeles; Member, School of Social Science

### December 15

Science and the State Theme Seminar + *Science and the State in Times of Covid-19* + Readings curated by **Diana Graizbord**, University of Georgia, and **Sonja van Wichelen**, University of Sydney; Members, School of Social Science

### January 25

Social Science Seminar + *We Are Become Life: From Existential Threat to Selecting Society* + **Charis Thompson**, London School of Economics; Visiting Professor, School of Social Science

## January 26

Science and the State Theme Seminar + *Debrief with the Newly-Appointed Deputy Director for Science and Society in the Biden-Harris Administration* + **Alondra Nelson**, Harold F. Linder Professor, School of Social Science

## February 1

Social Science Seminar + *Indications of Democracy: Evaluation Expertise and the Politics of Accountability in Mexico* + **Diana Graizbord**, University of Georgia; Member, School of Social Science

## February 8

Social Science Seminar + *Enlightenment Against Political Economy* + **Arnaud Orain**, Université Paris 8; Joint Member, School of Historical Studies and School of Social Science

## February 9

Science and the State Theme Seminar + *Extraction, Circulation, Capitalism* + Readings curated by **Nikolas Kosmatopoulos**, American University of Beirut, and **Waqar H. Zaidi**, Lahore University of Management Sciences; Members, School of Social Science

## February 16

Social Science Seminar + *Staying in Place: The Colored Methodist Episcopal Church and the Law of Property after the American Civil War* + **Sarah Barringer Gordon**, University of Pennsylvania; Member, School of Social Science

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Emmanuel Henry**, Université Paris-Dauphine; Member, School of Social Science

## February 22

Social Science Seminar + *Facing Authority: A Theory of Political Legitimacy* + **Thomas Fossen**, Leiden University; Member, School of Social Science

## February 23

Science and the State Theme Seminar + *Behavioral Sciences, Social Policy, and the State* + **Holger Straßheim**, Universität Bielefeld + Readings curated by **Diana Graizbord**, University of Georgia, and **Magdalena Malecka**, University of Helsinki; Members, School of Social Science

## March 1

Social Science Seminar + *The Garden in the Machine: Architectural Politics in an Age of Climate Catastrophe* + **Christo Sims**, University of California, San Diego; Member, School of Social Science

## March 2

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Diana Graizbord**, University of Georgia; Member, School of Social Science

## March 8

Social Science Seminar + *Mobs and Megaprojects: Rumor and the Political Life of Development in Bangladesh* + **Nusrat Chowdhury**, Amherst College; Member, School of Social Science

## March 9

Science and the State Theme Seminar + *Method, Scale and Responsibility: Between the Local and the Planetary* + **Anna L. Tsing**, University of California, Santa Cruz + Readings curated by **Joshua Barkan**, University of Georgia, **Joy Rohde**, University of Michigan, Ann Arbor, **Christo Sims**, University of California, San Diego, and **Sonja van Wichelen**, University of Sydney; Members, School of Social Science

## March 15

Social Science Seminar + *A Genealogy of International Concessions: Legal Framings of the Corporate Control of Land* + **Joshua Barkan**, University of Georgia; Member, School of Social Science

## March 16

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Christo Sims**, University of California, San Diego; Member, School of Social Science

## March 22

Social Science Seminar + *Machines of Government: Computers, Social Science, and American Democracy since 1945* + **Joy Rohde**, University of Michigan, Ann Arbor; Member, School of Social Science

## March 22–26

Summer Program in Social Science (Virtual Sessions)

## March 23

Science and the State Theme Seminar + *The Crisis of Expertise* + **Gil Eyal**, Columbia University + Readings curated by **Emmanuel Henry**, Université Paris-Dauphine and **Christo Sims**, University of California, San Diego; Members, School of Social Science, and **Alondra Nelson**, Harold F. Linder Professor, School of Social Science

## March 29

Social Science Seminar + *The Nuclear Ghost: Atomic Livelihood in Fukushima's Gray Zone* + **Ryo Morimoto**, Princeton University; Member, School of Social Science

## March 30

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Jacob Gates Foster**, University of California, Los Angeles; Member, School of Social Science

## April 2

Special Seminar + *Ecological New Deal and Sovereign Debts in the Euro Zone* + **Gaël Giraud**, Georgetown University

## April 5

Social Science Seminar + *The Limits to Computational Growth: Databases and Climate Change in the Caribbean* + **Sarah E. Vaughn**, University of California, Berkeley; Member, School of Social Science

## April 6

Science and the State Theme Seminar + *The Nuclear State and Non-“Western” Science* + **Abena Osseo-Asare**, University of Texas at Austin + Readings curated by **Ryo Morimoto**, Princeton University; Member, School of Social Science; **Charis Thompson**, London School of Economics; Visiting Professor, School of Social Science; and **Alondra Nelson**, Harold F. Linder Professor, School of Social Science

## April 8

Special Seminar + *Science on a Mission: How Military Funding Shaped What We Do and Don't Know about the Ocean* + **Naomi Oreskes**, Harvard University

## April 12

Social Science Seminar + *Injustice and Inequality in the Law: Legal Financial Obligations and Everyday Life* + **Leslie Paik**, City College, The City University of New York; Member, School of Social Science

## April 13

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Joy Rohde**, University of Michigan, Ann Arbor; Member, School of Social Science

## April 19

Social Science Seminar + *The Piety of Terrorists: Islamic Translations of Violence in Terrorism Trials* + **Aisha Ghani**, University of Minnesota Twin Cities; Member, School of Social Science

## April 20

Science and the State Theme Seminar + *Future States of Science and Capital* + **Timothy Mitchell**, Columbia University + Readings curated by **Nikolas Kosmatopoulos**, American University of Beirut; Member, School of Social Science, **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, and **Alondra Nelson**, Harold F. Linder Professor, School of Social Science

## April 26

Social Science Seminar + *Corporeal Contentions* + **Banu Bargu**, University of California, Santa Cruz; Member, School of Social Science

## May 3

Social Science Seminar + *Guiltlessly Guilty: Industrialized Animal Agriculture (and the Atomic Bomb) in an Age of Complicity* + **Timothy Pachirat**, University of Massachusetts Amherst; Member, School of Social Science

May 4

Science and the State Theme Seminar + Capstone Session + **Audra Wolfe**

May 10

Social Science Seminar + *After Biosovereignty: The Material Transfer Agreement in the Global South* + **Sonja van Wichelen**, University of Sydney; Member, School of Social Science

May 11

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Florence Jany-Catrice**, Université de Lille; Member, School of Social Science

May 18

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Leslie Paik**, City College, The City University of New York; Member, School of Social Science

May 25

Science and Expertise Reading/Writing Group + Discussion of paper submitted by **Sonja van Wichelen**, University of Sydney; Member, School of Social Science

## Director's Office Events

July 16

Friends Talk + *ATOMIC SPY: The Dark Lives of Klaus Fuchs* + **Nancy Greenspan**

September 21

Virtual Welcome Day

September 29

Friends Virtual Talk + *Virtuosity, Season 2* + **David Lang**, IAS Artist-in-Residence

October 1

Virtual Artist Salon + *An American Tragedy: How we Abandoned the Elderly during Covid-19* + **Frank Snowden**

October 16

Friends Lunch with a Member + *Giving the Past a Digital Squeeze* + **Aaron Hershkowitz**, Research Associate, School of Historical Studies

October 17

Edward T. Cone Concert Series + *Music for Multiple Cellos* + **Maya Beiser**

October 22

Public Policy Lecture + *The Financial Economy: Where It Came from and What Might Come Next* + **Nicholas Lemann**, Columbia University

October 24

Family Mathematics Talk + *Life on the Infinite Farm* + **Richard Schwartz**, Member, School of Mathematics

October 27

In Conversation with Labyrinth Books and IAS + *Dissimilar Similarities: Devotional Objects in Late Medieval Europe* + **Caroline Walker Bynum**, Professor Emerita, School of Historical Studies; and **Brook A. Holmes**, Member, School of Historical Studies

October 28

Friends Virtual Talk + *Testing Einstein's Theory of Gravity Using the First Image of a Black Hole* + **Lia Medeiros**, NSF Astronomy and Astrophysics Fellow, School of Natural Sciences

October 31

Public Lecture + *Risk and Credit 500 Years Before Modern France* + **Francesca Trivellato**, Andrew W. Mellon Professor, School of Historical Studies

November 5

Artist Salon featuring **Alex Ross**

November 9

In Conversation with Labyrinth Books and IAS + *On the Judgment of History* + **Yve-Alain Bois**, Professor, School of Historical Studies; **Hal Foster**, Princeton University

November 13

Friends Lunch with a Member + *Tantalizing Unsolved Problems* + **Richard Schwartz**, Member, School of Mathematics

November 21

Edward T. Cone Concert Series + *The Piano Equation* + **Matthew Shipp**

December 2

In Conversation with Labyrinth Books and IAS + *Brutal Aesthetics: Dubuffet, Bataille, Jorn, Paolozzi, Oldenburg* + **Yve-Alain Bois**, Professor, School of Historical Studies; **Hal Foster**, Princeton University

December 3

Artist Salon + *Readings from an In-Progress Verse Translation of The Iliad* + **Emily Wilson**

December 11

Friends Lunch with a Member + *Toni Morrison and the Revolutionary Work of Words* + **Lawrie Balfour**, Friends of the Institute Member, School of Social Science

January 11

Virtual Welcome Hour for Term 2 Members

January 11

Virtual Talk given by Friend of the Institute, **Richard Preston**

February 4

Artist Salon + *A Discussion with the Architects of Barack Obama's Presidential Center* + **Billie Tsien** and **Tod Williams**, Founding Partners, Tod Williams Billie Tsien Architects

February 6

Family Science Talk + *Black Holes* + **Robbert Dijkgraaf**, IAS Director and Leon Levy Professor

February 19

Friends Lunch with a Member + *Toward a Social Science of the Possible* + **Jacob Gates Foster**, Infosys Member, School of Social Science

March 4

Artist Salon + *Brutal Aesthetics—Dubuffet, Bataille, Jorn, Paolozzi, Oldenburg* + **Hal Foster**, Princeton University

March 12

Friends Lunch with a Member + *Sums of Four Squares and Beyond* + **Tony Feng**, Friends of the Institute Member, School of Mathematics

March 17

Abel Prize Ceremony + Community Celebration for Avi Wigderson + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

March 20

Edward T. Cone Concert Series + *Other Rooms* + **Pamela Z**

March 24

Friends Virtual Talk + *Using Galactic Clocks to Map Dark Matter* + **Sukanya Chakrabarti**, Member, School of Natural Sciences

April 7

Public Policy Lecture + *Can Science Be Saved?* + **Naomi Oreskes**, Henry Charles Lea Professor of the History of Science, Harvard University

April 13

*Usefulness of Useless Knowledge* + **Robbert Dijkgraaf**, IAS Director and Leon Levy Professor

April 16

Friends Lunch with a Member + *When Rome is not Rome* + **John North Hopkins**, Friends of the Institute Member, School of Historical Studies

April 24

Edward T. Cone Concert Series + *Middleground* + **Jasper String Quartet**

April 30

Friends Lunch with a Member + **Dalimil Mazac**, Founders' Circle Member, School of Natural Sciences

May 6

Public Lecture + *Imitation Games* + **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

May 13

Artist Salon + *Resist COVID/Take 6!* + **Carrie Mae Weems**

June 15

End of Term Party (in-person)

## Digital Scholarship @IAS

### September 10

Digital Scholarship Conversations + *HathiTrust Research Center Tools and Services* + **Ryan Dubnicek**, HathiTrust Research Center

### November 12

Digital Scholarship Conversations + *Workshop on using Overleaf* + **Overleaf** Technical Support Team.

### April 9

Digital Scholarship Conversation + *A Virtual Open House to Krateros* + **Aaron Hershkowitz**, Manager, Krateros Project, School of Historical Studies

## Program in Interdisciplinary Studies

### AFTER HOURS CONVERSATIONS

#### October 1

*How the Inside of a Black Hole Can Secretly Be on the Outside* + **Ahmed Almheiri**, Member, School of Natural Sciences

#### October 8

*Modernism and Mathematics* + **Remy van Dobben de Bruyn**, Veblen Research Instructor, School of Mathematics

#### October 15

*Conceiving the Global North Atlantic: Arthurian Literature and the Medieval Borders* + **Nahir Otaño Gracia**, Member, School of Historical Studies

#### October 29

*The Telescope with 48 Eyes: Unveiling New Phenomena in our Universe with Lenses You Can Buy on Amazon* + **Shany Danieli**, Member, School of Natural Sciences

#### November 5

*The Latinx Files: Race, Migration, and the Space Alien* + **Matthew Goodwin**, Visitor, School of Historical Studies

#### November 12

*What We Owe to Refugees* + **David Owen**, Visiting Professor, School of Social Science

#### November 19

*Bad Proofs of Good Theorems* + **Richard Schwartz**, Member, School of Mathematics

#### February 4

*The Rhetoric of Rage: Challenging Injustice in Medieval Lyrics and Black Women's Protest Movements* + **Carissa Harris**, Member, School of Historical Studies

#### February 11

*Flaring Heart of the Galaxy* + **Lena Murchikova**, Member, School of Natural Sciences

#### February 18

*"Growth and Beyond": Why Measuring Progress Remains a Challenge?* + **Florence Jany-Catrice**, Member, School of Social Science

#### February 25

*Multiplicity in Mathematical Literature from Bernhard Riemann to Italo Calvino* + **Philip Ording**, Visitor, Program in Interdisciplinary Studies

#### March 4

*Using Machine Learning to Find Hidden Patterns in Violent Deaths* + **Jacob Gates Foster**, Infosys Member, School of Social Science

#### March 11

*Building a Quantum Computer: A Mathematical Reflection* + **Terrence Blackman**, Visitor, School of Mathematics

#### March 18

*Corporeal Contentions: What Can We Learn from Self-Injury as Protest?* + **Banu Bargu**, Member, School of Social Science

#### March 25

*Human Memory Through the Prism of Mathematics* + **Misha Tsodyks**, C.V. Starr Professor, School of Natural Sciences