

# RECORD OF EVENTS

## School of Historical Studies

### September 26

East Asian Studies Seminar ♦ *Why Are You Sitting in That Tree? Two Intertwined Themes in Buddhist China, Seventeenth to Twentieth Centuries* ♦ **Raoul Birnbaum**, University of California, Santa Cruz; Member, School of Historical Studies

### September 27

Medieval Studies Seminar ♦ *First Term Introductions* ♦ **Patrick J. Geary**, Andrew W. Mellon Professor, School of Historical Studies

### September 29

Lunchtime Colloquia ♦ *First Term Introductions* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies

### October 4

Medieval Studies Seminar ♦ *Graphic Signs of Authority in Late Antiquity and the Early Middle Ages: A Cultural History* ♦ **Ildar Garipzanov**, University of Oslo; Member, School of Historical Studies

### October 5

Modern International Relations Seminar ♦ *Informal Group Discussion*

### October 6

Lunchtime Colloquia ♦ *When Emile Went to War: Becoming a Citizen-Soldier* ♦ **Thomas Dodman**, Boston College; Member, School of Historical Studies

### October 11

Medieval Studies Seminar ♦ *Before Abelard: The Intellectual Tradition and the Emergence of the "New" Schools, ca. 1050–1100* ♦ **Frank Rexroth**, Georg-August-Universität Göttingen; Member, School of Historical Studies

### October 12

Modern International Relations Seminar ♦ *Informal Group Discussion*

Digital Scholarship Conversations: *Digitization and the Law: Copyright, Fair Use, and Open Access* ♦ **Kyle K. Courtney**, Harvard University

### October 13

Lunchtime Colloquia ♦ *Spiral Letters: Material Texts and Power in Early Modern Korea* ♦ **Hwisang Cho**, Xavier University; Member, School of Historical Studies

Public Lecture ♦ *Mahatma Gandhi and Islam* ♦ **Gita Dharampal-Frick**, Universität Heidelberg

### October 17

East Asian Studies Seminar ♦ *Building Communism: Soviet Advisors in China, 1949–59* ♦ **Deborah Kaple**, Princeton University

### October 18

Ancient Studies Seminar ♦ *Transformations in Egyptian Scribal Culture in the Hellenistic and Roman Periods* ♦ **Jacco Dieleman**, University of California, Los Angeles; Member, School of Historical Studies

Medieval Studies Seminar ♦ *Astrologers, the Future, and the Fascination with Time—Approaches to a Transdisciplinary Discussion* ♦ **Klaus Oschema**, Universität Heidelberg; Member, School of Historical Studies

### October 19

Modern International Relations Seminar ♦ *Informal Group Discussion*

### October 20

Lunchtime Colloquia ♦ *From Left to Right: Lucy S. Dawidowicz, the New York Intellectuals, and the Politics of Jewish History* ♦ **Nancy Sinkoff**, Rutgers, The State University of New Jersey; Member, School of Historical Studies

### October 21

Near Easterner's Lunch ♦ *Informal Group Discussion*

### October 26

Modern International Relations Seminar ♦ *Informal Group Discussion*

### October 27

Lunchtime Colloquia ♦ *Intimate Relations: Students, Masters, and Truth at the "New" Schools of the Twelfth Century* ♦ **Frank Rexroth**, Georg-August-Universität Göttingen; Member, School of Historical Studies

### October 31

Medieval Studies Seminar ♦ *Relationships between Nomadic-Pastoralist Incomers and the Settled Population of Fifth-Century Hungary* ♦ **Susanne Hakenbeck**, University of Cambridge; Member, School of Historical Studies

### November 2

Modern International Relations Seminar ♦ *Informal Group Discussion*

Book Talk ♦ *Patricia Crone's Collected Studies in Three Volumes* ♦ Commentary by **Sabine Schmidtke**, Professor, School of Historical Studies ♦ **Kathy van Vliet-Leigh**, Brill Academic Publishers ♦ **Michael A. Cook**, Princeton University ♦ **Hanna Siurua**, Editor of Patricia Crone's *Collected Studies*

### November 3

Lunchtime Colloquia ♦ *Domesticating the Global and Materializing the Unknown: A Study of Album of Beasts at the Qianlong Court* ♦ **Yu-chih Lai**, Academia Sinica; Member, School of Historical Studies

### November 7

East Asian Studies Seminar ♦ *Identities and Boundaries in Early Medieval China* ♦ **Andrew Chittick**, Eckerd College; Member, School of Historical Studies

### November 8

Medieval Studies Seminar ♦ *Byzantine Intersectionality: Some Minuscule Histories on Premodern Oppression* ♦ **Roland Betancourt**, University of California, Irvine; Member, School of Historical Studies

### November 9

Modern International Relations Seminar ♦ *Informal Group Discussion*

### November 10

Lunchtime Colloquia ♦ *Libiamo ne' lieti calici: Symposiastic Life in an Egyptian Village: New Ostraca from the French-Italian Excavations in Tebtynis* ♦ **Fabian Reiter**, Universität Trier; Member, School of Historical Studies

### November 14

East Asian Studies Seminar ♦ *Privilege vs. Market: Conceiving Government Bonds in Qing China and Meiji Japan* ♦ **Elisabeth Kaske**, Carnegie Mellon University; Member, School of Historical Studies

### November 15

Ancient Studies Seminar ♦ *Conversations with the Gods: Q&A in the Oracular Tablets of Dodona* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies

Medieval Studies Seminar ♦ *Illusion in Theory and Practice* ♦ **Robert Goulding**, University of Notre Dame; Member, School of Historical Studies

### November 16

Modern International Relations Seminar ♦ *Informal Group Discussion*

Art History Seminar ♦ *Thinks I, Shooting Stars?* ♦ **Yve-Alain Bois**, Professor, School of Historical Studies

### November 17

Lunchtime Colloquia ♦ *The View from the Tigris: Recentring the Origins of Christian Monasticism* ♦ **Columba Stewart**, St. John's University; Member, School of Historical Studies

### November 22

Medieval Studies Seminar ♦ *Ascetic Taxonomy of Antioch and Edessa* ♦ **Columba Stewart**, St. John's University; Member, School of Historical Studies

### November 23

Modern International Relations Seminar ♦ *Informal Group Discussion*

### November 30

Modern International Relations Seminar ♦ *Informal Group Discussion*

### December 1

Lunchtime Colloquia ♦ *Coacoochee's Borderlands: A Native American Explorer in Nineteenth-Century North America* ♦ **Cameron B. Strang**, University of Nevada, Reno; Member, School of Historical Studies

### December 5

East Asian Studies Seminar ♦ *Taboos, Rituals, and Magic on Travel in Medieval China* ♦ **Xin Yu**, Fudan University; Member, School of Historical Studies

### December 6

Ancient Studies Seminar ♦ *Booze and Weeds in an Egyptian Village? Problematic Issues in the New Ostraca from Tebtynis* ♦ **Fabian Reiter**, Universität Trier; Member, School of Historical Studies

Medieval Studies Seminar ♦ *Old Hispanic Chant and the Textual Culture of Visigothic Iberia* ♦ **Rebecca Maloy**, University of Colorado; Member, School of Historical Studies

### December 7

Modern International Relations Seminar ♦ *Informal Group Discussion*

### December 8

Lunchtime Colloquia ♦ *The Album of Ahmed I: Cross-Cultural Collecting and the Art of Album-Making in Seventeenth-Century Istanbul* ♦ **Emine Fetvacı**, Boston University; Member, School of Historical Studies

### December 12

East Asian Studies Seminar ♦ *Research Notes on Climate Change and Steppe Empires* ♦ **Nicola Di Cosmo**, Luce Foundation Professor in East Asian Studies, School of Historical Studies

### December 14

Public Lecture ♦ *Jewish and Islamic Philosophical Thought in al-Andalus: New Perspectives* ♦ **Sarah Stroumsa**, The Hebrew University of Jerusalem.

Art History Seminar ♦ *Looking at Byzantine Manuscripts Relating to Siege Warfare and Other Diagrammatic Depictions of Space in Order to Consider the Ontology of the Secular Image as a Distributed Network of Objects, Images, and*

*Things* ♦ **Roland Betancourt**, University of California, Irvine; Member, School of Historical Studies

### December 15

Lunchtime Colloquia ♦ *Two Philosophies of Money in Early Eighteenth-Century Japan* ♦ **Federico Marcon**, Princeton University; Member, School of Historical Studies

### January 16

East Asian Studies Seminar ♦ *Making "The Forgotten Emperor": Documentaries and Academic Research in a Digital Age* ♦ **Chao-Hui Jenny Liu**, Princeton University, and **Virginia Bower**, University of the Arts, Philadelphia

### January 17

Medieval Studies Seminar ♦ *Second Term Introductions* ♦ **Patrick J. Geary**, Andrew W. Mellon Professor, School of Historical Studies

### January 19

Lunchtime Colloquia ♦ *Second Term Introductions* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies

### January 23

East Asian Studies Seminar ♦ *Epistolary Revolution in Early Modern Korea* ♦ **Hwisang Cho**, Xavier University; Member, School of Historical Studies

### January 24

Ancient Studies Seminar ♦ *Roman Emperors and the Acceptance of Divine Honors* ♦ **Christopher Jones**, Harvard University

Medieval Studies Seminar ♦ *The Spectre in the Garden* ♦ **Robert Goulding**, University of Notre Dame; Member, School of Historical Studies

### January 25

Modern International Relations Seminar ♦ *Informal Group Discussion*

### January 26

Lunchtime Colloquia ♦ *The Political Economy of Office Selling in Nineteenth Century China* ♦ **Elisabeth Kaske**, Carnegie Mellon University; Member, School of Historical Studies

### February 1

Modern International Relations Seminar ♦ *Informal Group Discussion*

### February 2

Lunchtime Colloquia ♦ *Early Modern Iberian Bibliopolitics* ♦ **Fabien Montcher**, Saint Louis University; Member, School of Historical Studies

### February 6

East Asian Studies Seminar ♦ *How Did Money Think in Tokugawa Japan?* ♦ **Federico Marcon**, Princeton University; Member, School of Historical Studies

### February 7

Ancient Studies Seminar ♦ *Ideological Expression in Achaemenid Persia: The Glorification of the King and the Conjunction with the Divine* ♦ **Matthew Waters**, University of Wisconsin–Eau Claire; Member, School of Historical Studies

### February 8

Art History Seminar ♦ *The Visual Field of Moscow Conceptualism: Reflections on "Thinking Pictures"* (Zimmerli Art Museum, September–December 2016) ♦ **Jane Sharp**, Rutgers, The State University of New Jersey

### February 9

Lunchtime Colloquia ♦ *Consolidating Ecclesiastical Authority: The Case of the Patriarchate of Constantinople in the Early Modern Ottoman Empire* ♦ **Anastasios (Tom) Papademetriou**, Stockton University; Member, School of Historical Studies

### February 14

Medieval Studies Seminar ♦ *The Vocabulary of Power in Charlemagne's Capitularies* ♦ **Jennifer Davis**, The Catholic University of America; Member, School of Historical Studies

### February 15

Modern International Relations Seminar ♦ *Informal Group Discussion*

### February 16

Lunchtime Colloquia ♦ *Labors of Vietnamese Territory: The Crucible of Dien Bien Phu (1953–54)* ♦ **Christian Lentz**, The University of North Carolina at Chapel Hill; Member, School of Historical Studies

### February 21

Medieval Studies Seminar ♦ *Wretched Experts—Astrologers and the Reciprocal Elucidation of Modern and Medieval Expertise* ♦ **Klaus Oschema**, Universität Heidelberg; Member, School of Historical Studies

### February 22

Modern International Relations Seminar ♦ *Informal Group Discussion*

### February 23

Lunchtime Colloquia ♦ *The Life and Afterlife of Román Ramírez, Morisco of Deza* ♦ **Patrick O'Banion**, Lindenwood University; Member, School of Historical Studies

### February 24

Workshop: *Why Syriac Matters* ♦ **Muriel Debié**, École Pratique des Hautes Études; Member, School of Historical Studies

## February 27

East Asian Studies Seminar ♦ *Imaginary Histories: Ezra Pound's China and Japan* ♦ **Michael Davis**, Princeton Theological Seminary

## February 28

Ancient Studies Seminar ♦ *Hermupolis Magna and the Nomarchy of Antinoopolis: The Foundation of a New City and Its Administrative Challenges* ♦ **Alexander Free**, Ludwig-Maximilians-Universität München

Medieval Studies Seminar ♦ *Faltering Images: Failure and Error in Byzantine Manuscript Illumination* ♦ **Roland Betancourt**, University of California, Irvine; Member, School of Historical Studies

## March 1

Modern International Relations Seminar ♦ *Informal Group Discussion*

Book Talk ♦ *The Invention of Humanity* ♦ **Siep Stuurman**, Author; Member (2005) in the School of Historical Studies ♦ Panelists: **Jonathan Israel**, Professor Emeritus, School of Historical Studies; **Nicola Di Cosmo**, Luce Foundation Professor in East Asian Studies, School of Historical Studies; **Michael Walzer**, Professor Emeritus, School of Social Science

## March 2

Lunchtime Colloquia ♦ *Building the Greater Nazi Reich: Lessons from "The Man in The High Castle" and Occupied Norway* ♦ **Despina Stratigakos**, University at Buffalo, The State University of New York; Member, School of Historical Studies

## March 3

Epigraphic Friday ♦ *Posthumous Honors for Philopoemen (IG V 432)* ♦ **Christopher Jones**, Harvard University ♦ *LSCG 139 and Its Contexts* ♦ **Andrej Petrovic**, University of Virginia ♦ *The Two Faces of Marmarini (Kernos 2015: 13–51; 2016: 185–268)* ♦ **Mat Carbon**, Center for Hellenic Studies, Harvard University, Washington, D.C. ♦ *Honoring the Official: Honorific Monuments from Ptolemaic Cyprus as Mirror of the Relationship Between Polis, Official, and King* ♦ **Benjamin Wieland**, Albert-Ludwigs-Universität Freiburg ♦ *The Memory of Salmakis: A Historical and Cultural Approach to the "Pride of Halikarnassos"* ♦ **Marco Santini**, Princeton University ♦ *New Inscriptions from Hierapolis* ♦ **Francesco Guizzi**, Università degli Studi di Roma, La Sapienza; Member, School of Historical Studies ♦ *Hadrian's Epigram from Thespiai* ♦ **Paraskevi Martzavou**, Columbia University ♦ *Modeling the Future of the Past: 3D Imaging and Epigraphy* ♦ **Aaron Hershkowitz**, Rutgers, The State University of New Jersey ♦ *A New Encomium from Aphrodisias* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies ♦ *Aphrodisias in Late Antiquity, no. 154 and Rome* ♦ **Glen W. Bowersock**, Professor Emeritus, School of Historical Studies

## March 6

East Asian Studies Seminar ♦ *Postcolonial Territory in Asia's Borderlands* ♦ **Christian Lentz**, The University of North Carolina at Chapel Hill; Member, School of Historical Studies

## March 7

Medieval Studies Seminar ♦ *Evagrius Ponticus, The Gnostikos, or, To the One Who Has Become Worthy of Knowledge: A New Translation from the Greek and Syriac* ♦ **Columba Stewart**, St. John's University; Member, School of Historical Studies

## March 8

Modern International Relations Seminar ♦ *Informal Group Discussion*

Public Lecture ♦ *Ramon Marti: Engaging Islam and Judaism on the Edge of Scholastic Christendom* ♦ **Thomas Burman**, University of Notre Dame

## March 9

Lunchtime Colloquia ♦ *Roll Over, Darwin: Structuralist Evolution Theory, 1750s till 1950s* ♦ **Nicolaas Rupke**, Washington and Lee University; Member, School of Historical Studies

## March 13

East Asian Studies Seminar ♦ *Truth Contested: Imperial Politics, Image Discourse, and European Botanical Studies at the Qianlong Court* ♦ **Yu-chih Lai**, Academia Sinica; Member, School of Historical Studies

## March 15

Art History Seminar ♦ *The Artist and xyr Model: Or, What Counts as Convention?* ♦ **Beatrice Kitzinger**, Princeton University

## March 16

Lunchtime Colloquia ♦ *Jerusalem in the Seventh Century: A Case of Divided Memories* ♦ **Muriel Debié**, École Pratique des Hautes Études; Member, School of Historical Studies

## March 21

Medieval Studies Seminar ♦ *From Scripture to Chant: The Sacrificia as Biblical Exegesis* ♦ **Rebecca Maloy**, University of Colorado; Member, School of Historical Studies

## March 23

Lunchtime Colloquia ♦ *Carolingian Legal Culture and the Wandalgarius Codex* ♦ **Jennifer Davis**, The Catholic University of America; Member, School of Historical Studies

## March 27–28

Climate Change in Eurasian Late Antiquity: A Dialogue between Science, History, and Archaeology ♦ *Environment, Climate, and Society in the Late Antique Eastern Mediterranean: An Analysis of Adaptation, Vulnerability, and Regionality* ♦ **Adam Izdebski**, Jagiellonian University, Krakow, Poland ♦ *Short-Term*

*Environmental Shocks and Socio-Political Change in Sixth-Century Antioch* ♦ **Lee Mordechai**, Princeton University ♦ *Dust Storms and Urban Greening in China's Medieval Capital Kaifeng, 900–1150* ♦ **Yuan Chen**, Yale University ♦ *Short-Term Climate Change, Mass Migration, and Political Upheaval in the Late Medieval World, ca. 1160–1220* ♦ **William Atwell**, Hobart and William Smith Colleges ♦ *Climate Variability and Early Nomadic Empires* ♦ **Nicola Di Cosmo**, Luce Foundation Professor in East Asian Studies, School of Historical Studies ♦ *Eurasian Megadroughts and the Hun-Avar Migrations* ♦ **Edward Cook**, Lamont-Doherty Earth Observatory, Columbia University ♦ *Tree-Ring Evidence for the Late Antique Little Ice Age* ♦ **Ulf Büntgen**, Cambridge University ♦ *Mystery Eruptions and Forensic Volcanology in the Late Antique Period* ♦ **Clive Oppenheimer**, Cambridge University ♦ *Environmental History and Historical Climatology* ♦ **John McNeill**, Georgetown University ♦ *Rise and Collapse of the Xiongnu and Xianbei Empires in Inner Asia: Was Climate Involved?* ♦ **Ursula Brosseder**, Universität Bonn ♦ *The Turkic Empires in Inner Asia: Climate Change, Collapse, and Resilience* ♦ **Jan Bemann**, Universität Bonn ♦ *Political and Social Factors in the Shaping of an Archaeological Landscape: The Case of the Bukhara Oasis (Uzbekistan) between the third/fourth and the ninth/tenth centuries C.E.* ♦ **Sören Stark**, Institute for the Study of the Ancient World, New York University ♦ *Morbifera Nubes: Climate and Infectious Disease in Late Antiquity* ♦ **Timothy Newfield**, Georgetown University ♦ *Using Stable Isotope Analysis to Investigate Climate Change in Historic Periods: What Can the Method Tell Us?* ♦ **Susanne Hakenbeck**, University of Cambridge

## March 28

Ancient Studies Seminar ♦ *Water for the City: New Epigraphic Evidence from the Lycos Valley (Turkey)* ♦ **Francesco Guizzi**, Università degli Studi di Roma, La Sapienza; Member, School of Historical Studies

Medieval Studies Seminar ♦ *War and Religions in Late Antique Northern Mesopotamia: An Unedited Syriac Text on the Transformation of a Church into a Fire Temple in Amida (Diyarbakir)* ♦ **Muriel Debié**, École Pratique des Hautes Études; Member, School of Historical Studies

## March 29

Modern International Relations Seminar ♦ *Informal Group Discussion*

## March 30

Lunchtime Colloquia ♦ *Heaven Can Tell: Late Medieval Astrologers as Experts and Scientific Political Advisers* ♦ **Klaus Oschema**, Universität Heidelberg; Member, School of Historical Studies

#### April 4

Medieval Studies Seminar ♦ *Byzantine Liturgical Rites at a Lost Pregnancy: Orthodox Christianity, Women, Miscarriage, and Abortion in the Late Middle Ages* ♦ **Nina Glibetic**, The Hebrew University of Jerusalem; Member, School of Historical Studies

#### April 5

Modern International Relations Seminar ♦ *Informal Group Discussion*

Public Lecture ♦ *Qur'anists in al-Andalus?* ♦ **Maribel Fierro**, Instituto de Lenguas y Culturas del Mediterráneo y Oriente Próximo, Consejo Superior de Investigaciones Científicas

#### April 6

Lunchtime Colloquia ♦ *Heaven and History: Astrology and Regimes of Historicity in Early Islam* ♦ **Antoine Borrut**, University of Maryland, College Park; Member, School of Historical Studies

#### April 11

Ancient Studies Seminar ♦ *Assessing Deception and Truthfulness in Forensic Narratives from Classical Athens* ♦ **Christos Kremmydas**, Royal Holloway, University of London; Member, School of Historical Studies

Medieval Studies Seminar ♦ *The Schools of Peter Abelard and the Boundaries of Scholarly Communication in the Twelfth Century* ♦ **Frank Rexroth**, Georg-August-Universität Göttingen; Member, School of Historical Studies

#### April 12

Modern International Relations Seminar ♦ *Informal Group Discussion*

#### April 13

Lunchtime Colloquia ♦ *U.S.-Germany-China: The Search for Order and National Advantage* ♦ **Klaus Larres**, The University of North Carolina, Chapel Hill; Member, School of Historical Studies

#### April 18

Medieval Studies Seminar ♦ *The Ritual Performance of Female Identity in Byzantium: A Liturgical Rite of Passage for Binding Up an Adolescent's Hair* ♦ **Gabriel Radle**, Seeger Center for Hellenic Studies, Princeton University

#### April 20–21

Patricia Crone Memorial Conference: The Arabic Literary Genizot Beyond Denominational Borders ♦ *Opening Remarks* ♦ **Sabine Schmidtke**, Professor, School of Historical Studies ♦ *The Literary Genizot: A Window to a Mediterranean Republic of Letters* ♦ **Sarah Stroumsa**, The Hebrew University of Jerusalem ♦ *Meanderings in the Arabic Literary Geniza* ♦ **Oded Zinger**, Duke University ♦ *The Afghan Genizah* ♦ **Shaul Shaked**, The

Hebrew University of Jerusalem ♦ *Ninth-Century Judeo-Arabic Biblical Exegesis in a Christian Context* ♦ **David Sklare**, Ben-Zvi Institute, Jerusalem ♦ *Sirat 'Antar in the Genizot of Cairo* ♦ **Krisztina Szilágyi**, University of Cambridge ♦ *Judaic-Arabic Dream Books from the Cairo Genizah* ♦ **Blanca Villuendas**, CSIC, Madrid ♦ *The Hebrew Bible in the Judaeo-Islamic milieu* ♦ **Ben Outhwaite**, University of Cambridge ♦ *al-Uṣūl al-Muhadhdhabyyya: A Joint Theological Project of a Karaite Scholar and a Sunni Judge in Mid-Twelfth Century Fāṭimid Egypt* ♦ **Haggai Ben-Shammai**, The Hebrew University of Jerusalem ♦ *Abd al-Jabbār al-Hamaḡānī's K. al-Muḡḡ bi-l-taklīf and Its Satellite Literature in Jewish Genizot (Reconstruction of the Relevant Texts and Their Reception among Jewish Readers)* ♦ **Gregor Schwarb**, School of Oriental and African Studies, London ♦ *Arabic (Theological/Philosophical) Literature in the Judaeo-Arabic Judicial Works from the Cairo Genizah* ♦ **Zvi Stampfer**, The Hebrew University of Jerusalem ♦ *The Reception of Qāḏī Ibn Labbād among the Muslims and Jews* ♦ **Sabine Schmidtke**, Professor, School of Historical Studies ♦ *Karaite Material in Arabic Script* ♦ **Geoffrey Khan**, University of Cambridge ♦ *Abd al-Jabbār and His Kitāb al-Man' wa-l-tamānu* ♦ **Hassan Farhang Ansari**, Member, School of Historical Studies ♦ *Syriac Scribbles in the Cairo Genizah and the Syriac Presence in Fustāt* ♦ **George A. Kiraz**, Beth Mardutho: The Syriac Institute ♦ *Linguistic Variation in Egyptian Judaeo-Arabic and Arabic Folk Narratives from the Ottoman Period* ♦ **Magdalen Connolly**, University of Cambridge ♦ *Muslim Arabic Literature in Hebrew Letters: A Neglected Genizah* ♦ **María Ángeles Gallego**, Instituto de Lenguas y Culturas del Mediterráneo y Oriente Próximo, CSIC, Madrid ♦ *The Sephardic Manuscripts in the Firkovitch Collection* ♦ **Alla Markova**, Brooklyn Public Library ♦ *Judeo-Arabic Preaching 800–1200: Uncovering a Lost Genre* ♦ **Moshe Lavee**, University of Haifa ♦ *Sufi Literature of Genizot from the Abraham Firkovich Collection of the National Library of Russia in St. Petersburg* ♦ **Pavel Basharin**, Russian State University for the Humanities, Moscow ♦ *Alchemical Texts in the Genizot* ♦ **Y. Tzvi Langerman**, Bar-Ilan University ♦ *Biblical Versions in Arabic: Recent Explorations in the Genizot* ♦ **Ronny Vollandt**, Ludwig-Maximilians-Universität München ♦ *Yeḡet Ben Eli's Translation and Commentary on the Book of Job in Judeo-Arabic: Differences between the Only Available Manuscript in Arabic Letters and the 24 Available Manuscripts in Hebrew Letters and Their Possible Sources and Explanations* ♦ **Arik Sadan**, Tel Aviv University ♦ *The Early Judeo-Persian Bible Exegesis: The Manuscripts in the British Library and in the National Library of Russia* ♦ **Ofir Haim**, The Hebrew University of Jerusalem ♦ *Bruno Chiesa's Scholarly Work on Paul Kahle* ♦ **Francesca Bellino**, Università degli Studi di Torino and Princeton University ♦ *Closing Remarks* ♦ **Sabine Schmidtke**, Professor, School of Historical Studies, and **Geoffrey Khan**, University of Cambridge

#### April 21

RBS-Mellon Symposium: Eccentric Readings in East Asia ♦ *Unconventional Ways of Writing Chinese in Dunhuang* ♦ **Imre Galambos**, University of Cambridge ♦ *Jumping and Twisting: Reading Buddhist Doxis through the Praxis of Popular Board Games* ♦ **Charlotte Eubanks**, The Pennsylvania State University ♦ *Responses* ♦ **Brinkley Messick**, Columbia University; **David Lurie**, Columbia University; **Paize Keulemans**, Princeton University ♦ *Convened by Hwisang Cho*, Xavier University; Member, School of Historical Studies; **Nicola Di Cosmo**, Luce Foundation Professor in East Asian Studies, School of Historical Studies

#### June 12–14

Advanced School in the Humanities: Judaism, Christianity, and Islam: Religious Communities and Communities of Knowledge ♦ *Opening Remarks* ♦ **Sabine Schmidtke**, Professor, School of Historical Studies, and **Guy Stroumsa**, The Hebrew University of Jerusalem ♦ *Parting Ways of Knowing: Rereading the "Two Powers" Statement in TB Hagigah 15a* ♦ **Emanuel Fiano**, Fordham University ♦ *To Divide and Construct—Ancient Christian Heresiology, Its Rise and Impact* ♦ **Winrich Löhr**, Universität Heidelberg ♦ *Intercommunal Oaths from Antiquity to Late Antiquity* ♦ **Moshe Blidstein**, The Hebrew University of Jerusalem ♦ *Simple Believers: The Layering of Knowledge in Christian Communities* ♦ **Jack Tannous**, Princeton University ♦ *The Greek-Syriac-Arabic Intellectual Interface Before Bayt al-Hikmah: The Case of George of the Arabs* ♦ **George A. Kiraz**, Beth Mardutho: The Syriac Institute ♦ *Science in the Service of Biblical History: A Ninth-Century Northern-Mesopotamian Account of the Longevity of the Patriarchs* ♦ **Yonatan Moss**, The Hebrew University of Jerusalem ♦ *Narrating Translation into Arabic in al-Andalus* ♦ **Maribel Fierro**, Instituto de Lenguas y Culturas del Mediterráneo y Oriente Próximo, Consejo Superior de Investigaciones Científicas ♦ *The Chosen Place as Point of Content and Contention: Samaritan Traditions About Mount Garizim* ♦ **Stefan Schorch**, Martin-Luther-Universität Halle-Wittenberg ♦ *The Significance of Silence: Single-Source Evidence on Intercommunal Events in al-Andalus* ♦ **Sarah Stroumsa**, The Hebrew University of Jerusalem ♦ *Between Hebraica Veritas, Graeca Veritas and Tahrif: Exegetical Strategies in Early Rūm Orthodox (Melkite) Polemic Tracts* ♦ **Miriam Hjälml**, Ludwig-Maximilians-Universität München ♦ *Copts in Coexistence with Their Muslim Rulers in Eleventh-Century Egypt* ♦ **Juan Pedro Monferrer-Sala**, Universidad de Córdoba ♦ *The Concept of Adab among Muslims and Jews in Eleventh and Twelfth-Century Andalusia* ♦ **Reimund Leicht**, The Hebrew University of Jerusalem ♦ *Lost in Translation: Obstacles Endangering the Safe Journey of Philosophical Texts across Religious, Cultural, and Linguistic Boundaries* ♦ **Steven Harvey**, Bar-Ilan University ♦ *Selecting, Transforming, Integrating:*

*The Mechanics of Appropriating Arabic 'Ilm among Thirteenth-Century Dominicans* ♦ **Katja Krause**, Durham University ♦ *Learned Magic and Popular Beliefs: New Evidence for the Origins of the "Witches-Sabbat"* ♦ **Ayelet Even Ezra**, The Hebrew University of Jerusalem ♦ *The Other "Great Eagle": Interreligious Panegyrics and the Limits of Interpretation* ♦ **Jonathan Decter**, Brandeis University ♦ *Astrology Serving Judaism: Moses Ashkenazi Cohen's Urim ve-Tummim and Jewish Thought in the Fifteenth-Century Eastern Mediterranean* ♦ **Robert G. Morrison**, Bowdoin College ♦ *Closing Remarks* ♦ **Michael A. Cook**, Princeton University

## School of Mathematics

### September 15

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Modular Forms and Optimization in Euclidean Space* ♦ **Maryna Viazovska**, Humboldt-Universität zu Berlin

### September 20

Princeton/IAS Symplectic Geometry Seminar ♦ *Lagrangian Cell Complexes and Markov Numbers* ♦ **Jonny Evans**, University College London

Computer Science/Discrete Mathematics Seminar II ♦ *Algebraic Geometric Codes and Their Applications* ♦ **Gil Cohen**, Visitor, School of Mathematics

Short Talks by Postdoctoral Members ♦ *Effective Quantum Dynamics* ♦ **Sören Petrat**, Member, School of Mathematics ♦ *Log Geometric Techniques for Open Invariants in Mirror Symmetry* ♦ **Nurömür Hülya Argüz**, Member, School of Mathematics ♦ *Canonical Bases Arising from Quantum Symmetric Pairs* ♦ **Huanchen Bao**, Member, School of Mathematics ♦ *With Trees and the Kontsevich Operad* ♦ **Nathaniel Bottman**, Member, School of Mathematics ♦ *Resilient Functions* ♦ **Eshan Chattopadhyay**, Member, School of Mathematics ♦ *The Sum-of-squares Meta-algorithm for Computational Problems* ♦ **Pravesh Kothari**, Princeton University; Member, School of Mathematics

Auroux Watching Seminar

### September 21

Homological Mirror Symmetry (minicourse) ♦ *Non-Archimedean Geometry for Symplectic Geometers* ♦ **Mohammed Abouzaid**, Columbia University; Member, School of Mathematics

Short Talks by Postdoctoral Members ♦ *Moduli Interpretations for Noncongruence Modular Curves* ♦ **William Yun Chen**, Member, School of Mathematics ♦ *Interaction between Wall Crossing and Quiver Representations* ♦ **Man Wai**

**Cheung**, Member, School of Mathematics ♦ *Symplectic Topology and Critical Points of Complex-Valued Functions* ♦ **Sheel Ganatra**, Member, School of Mathematics ♦ *Points, Lines, Planes, Etc.* ♦ **June Huh**, Princeton University; Veblen Fellow, School of Mathematics ♦ *Strong-Coupling Renormalization Group in the Hierarchical Kondo Model* ♦ **Ian Jauslin**, Member, School of Mathematics ♦ *Long Time Behavior of Nonlinear Wave Equations and the Soliton Resolution Conjecture* ♦ **Hao Jia**, Member, School of Mathematics

### September 22

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Recent Progress on Serre Weight Conjectures* ♦ **Bao Le Hung**, The University of Chicago

### September 23

Homological Mirror Symmetry (minicourse) ♦ *Non-Archimedean Geometry for Symplectic Geometers* ♦ **Mohammed Abouzaid**, Columbia University; Member, School of Mathematics

Short Talks by Postdoctoral Members ♦ *Almost Commuting Matrices* ♦ **Ilya Kachkovskiy**, Member, School of Mathematics ♦ *Twists of Elliptic Curves* ♦ **Nayoung Kim**, Member, School of Mathematics ♦ *Lifting Galois Representations* ♦ **Daniel Le**, Member, School of Mathematics ♦ *Mirror Symmetry for Open Surfaces* ♦ **Heather Lee**, Member, School of Mathematics ♦ *Which Homology Spheres Bound Homology Balls?* ♦ **Francesco Lin**, Princeton University; Veblen Research Instructor, School of Mathematics ♦ *Projective Dehn Twist* ♦ **Cheuk Yu Mak**, Member, School of Mathematics

### September 26

Computer Science/Discrete Mathematics Seminar I ♦ *Counting Solutions to Random Constraint Satisfaction Problems* ♦ **Allan Sly**, Princeton University

NSF Information Session

Short Talks by Postdoctoral Members ♦ *On the 16-Rank of Class Groups of Quadratic Number Fields* ♦ **Djordjo Zeljko Milovic**, Member, School of Mathematics ♦ *Trivial and Interesting Relations from Fixed-Point Localization* ♦ **Amitai Netser Zernik**, Member, School of Mathematics ♦ *Accelerated Stochastic Gradient Descent via New Model for First-Order Optimization* ♦ **Zeyuan Allen-Zhu**, Member, School of Mathematics ♦ *Pseudo-calibration, Sum of Squares, and Planted Clique* ♦ **Aaron Potechin**, Member, School of Mathematics ♦ *Zeros of Polynomials on Cartesian Products* ♦ **Orit Esther Raz**, Member, School of Mathematics

### September 27

Reading Group on Legendrian Knots and Associated Categories

Princeton/IAS Symplectic Geometry Seminar ♦ *Cost of Splitting Lagrangians* ♦ **Octav Cornea**, Université de Montréal

Short Talks by Postdoctoral Members ♦ *A Brief Introduction to Continuous Symplectic Geometry* ♦ **Sobhan Seyfaddini**, Member, School of Mathematics ♦ *Points* ♦ **Yiwei She**, Member, School of Mathematics ♦ *Floer Theory and Metrics in Contact and Symplectic Topology* ♦ **Egor Shelukhin**, Member, School of Mathematics ♦ *Symplectic Mapping Class Groups and Mirror Symmetry* ♦ **Nicholas Sheridan**, Princeton University; Member, School of Mathematics ♦ *Motives of Projective Pseudo-homogeneous Varieties* ♦ **Srimathy Srinivasan**, Member, School of Mathematics ♦ *Lagrangian and Legendrian Skeleta* ♦ **Zachary Sylvan**, Member, School of Mathematics

Auroux Watching Seminar

### September 28

Short Talks by Postdoctoral Members ♦ *On the Sensitivity Conjecture* ♦ **Avishay Tal**, Member, School of Mathematics ♦ *Cycles in the de Rham Cohomology of Abelian Varieties* ♦ **Yunqing Tang**, Member, School of Mathematics ♦ *Geometric Langlands Correspondence via Quantization in Positive Characteristic* ♦ **Roman Travkin**, Member, School of Mathematics ♦ *Invariant Homotopy Theory in the Univalent Foundations* ♦ **Guillaume Brunerie**, Member, School of Mathematics ♦ *Homological Generalizations of Trace* ♦ **Dmitry Vaintrob**, Member, School of Mathematics ♦ *Transversality for Coproduct and Cobracket* ♦ **Dingyu Yang**, Member, School of Mathematics ♦ *Symplectic Topology and the Loop Space* ♦ **Jingyu Zhao**, Member, School of Mathematics

Mathematical Conversations ♦ *Local-to-Global Approaches to Homological Mirror Symmetry* ♦ **Mohammed Abouzaid**, Columbia University; Member, School of Mathematics

### September 29

Working Group on Algebraic Number Theory

Analysis/Number Theory Seminar ♦ *Quantitative Distributional Aspects of Generic Diagonal Forms* ♦ **Jean Bourgain**, IBM von Neumann Professor, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar ♦ *Asymptotic Behavior of Supercuspidal Representations and Sato-Tate Equidistribution for Families* ♦ **Ju-Lee Kim**, Massachusetts Institute of Technology; Visiting Professor, School of Mathematics

### September 30

Beyond Endoscopy ♦ *Geometry of Arc Spaces and the Hankel Transform I* ♦ **Ngô Bảo Châu**, The University of Chicago ♦ *The Geometric Theory of Automorphic Forms over Riemann Surfaces as a Theory of Eigenfunctions of Hecke Operators and Its Possible Surprises I* ♦ **Robert P. Langlands**,

Professor Emeritus, School of Mathematics ♦ *Geometric Side of the Trace Formula and Related Problems* ♦ **Ali Altuğ**, Massachusetts Institute of Technology ♦ *Decomposing Symmetric Powers* ♦ **Bill Casselman**, The University of British Columbia ♦ *The Geometric Theory of Automorphic Forms over Riemann Surfaces as a Theory of Eigenfunctions of Hecke Operators and Its Possible Surprises II* ♦ **Robert P. Langlands**, Professor Emeritus, School of Mathematics

#### October 1

Beyond Endoscopy ♦ *Geometry of Arc Spaces and the Hankel Transform II* ♦ **Ngô Bảo Châu**, The University of Chicago ♦ *Regular Supercuspidal Representations* ♦ **Tasho Kaletha**, University of Michigan ♦ *L-Functions, Monoids, and Bessel Functions* ♦ **Freydoon Shahidi**, Purdue University ♦ *Asymptotics for Hecke Eigenvalues with Improved Error Term* ♦ **Jasmin Matz**, Universität Leipzig ♦ *Beyond Endoscopy and Geometric Terms* ♦ **James Arthur**, University of Toronto

#### October 4

Princeton/IAS Symplectic Geometry Seminar ♦ *Packaging the Construction of Kuranishi Structure on the Moduli Space of Pseudo-holomorphic Curve* ♦ **Kenji Fukaya**, Stony Brook University, The State University of New York ♦ *Projective Dehn Twist via Lagrangian Cobordism* ♦ **Cheuk Yu Mak**, Member, School of Mathematics

Special Math/Physics Seminar ♦ *Derivation of the Vlasov Equation* ♦ **Peter Pickl**, Ludwig-Maximilians-Universität München

Auroux Watching Seminar

#### October 5

Avi Is 60: A Celebration of Mathematics and Computer Science

Homological Mirror Symmetry (minicourse) ♦ *Liouville Sectors and Fukaya Categories of Stein Manifolds* ♦ **John Pardon**, Visitor, School of Mathematics

#### October 6

Avi Is 60: A Celebration of Mathematics and Computer Science

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *The Unpolarized Shafarevich Conjecture for K3 Surfaces* ♦ **Yiwei She**, Member, School of Mathematics

#### October 7

Avi Is 60: A Celebration of Mathematics and Computer Science

Homological Mirror Symmetry (minicourse) ♦ *Liouville Sectors and Fukaya Categories of Stein Manifolds* ♦ **John Pardon**, Visitor, School of Mathematics

#### October 8

Avi Is 60: A Celebration of Mathematics and Computer Science

#### October 10

Members' Seminar ♦ *Gauss-Manin Connections from a TQFT Viewpoint* ♦ **Paul Seidel**, Massachusetts Institute of Technology; Distinguished Visiting Professor, School of Mathematics

#### October 11

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Princeton/IAS Symplectic Geometry Seminar ♦ *Monotone Lagrangians in Cotangent Bundles* ♦ **Luis Diogo**, Columbia University ♦ *Length and Width of Lagrangian Cobordisms* ♦ **Joshua Sabloff**, Haverford College; Member, School of Mathematics

Auroux Watching Seminar

#### October 12

Working Seminar on Representation Theory ♦ *Cocenters and Representations of  $p$ -adic Groups* ♦ **Xuhua He**, University of Maryland; von Neumann Fellow, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Mathematical Conversations ♦ *Going to Mars for Symplectic Geometers and Their Friends* ♦ **Edward Belbruno**, Princeton University

#### October 13

Reading Group on Punctured Log Gromov-Witten Theory ♦ *A Smooth Introduction to Log Geometry and Log Gromov-Witten Theory*

Analysis Math-Physics Seminar ♦ *Universality in Numerical Computations with Random Data: Case Studies* ♦ **Percy A. Deift**, Courant Institute of Mathematical Sciences, New York University; Member, School of Mathematics

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Local Points of Supersingular Elliptic Curves on  $Z_p$ -Extensions* ♦ **Mirela Ciperiani**, The University of Texas at Austin; von Neumann Fellow, School of Mathematics

#### October 17

Computer Science/Discrete Mathematics Seminar I ♦ *Matrix Invariants and Algebraic Complexity Theory* ♦ **Harm Derksen**, University of Michigan

Members' Seminar ♦ *Homological Mirror Symmetry and Symplectic Mapping Class Groups* ♦ **Nicholas Sheridan**, Princeton University; Member, School of Mathematics

#### October 18

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Computer Science/Discrete Mathematics Seminar II ♦ *Real Rooted Polynomials and Multivariate Extensions* ♦ **Adam Marcus**, Princeton University; von Neumann Fellow, School of Mathematics

Princeton/IAS Symplectic Geometry Seminar ♦ *From Lusternik-Schnirelmann Theory to Conley Conjecture* ♦ **Başak Gürel**, University of Central Florida

Auroux Watching Seminar

#### October 19

Working Seminar on Representation Theory ♦ *Categorification of the Positive Half of  $U_q(\mathfrak{sl}_2)$*  ♦ **Huanchen Bao**, Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math-Physics Seminar ♦ *Universality in Numerical Computations with Random Data: Analytical Results* ♦ **Percy A. Deift**, Courant Institute of Mathematical Sciences, New York University; Member, School of Mathematics

#### October 20

Reading Group on Punctured Log Gromov-Witten Theory

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *The Hasse-Weil Zeta Functions of the Intersection Cohomology of Minimally Compactified Orthogonal Shimura Varieties* ♦ **Yihang Zhu**, Harvard University

#### October 21

Reading Group on Cluster Algebras

Mathematical Conversations ♦ *Extractors and Ramsey Graphs* ♦ **Eshan Chattopadhyay**, Member, School of Mathematics

#### October 24

Computer Science/Discrete Mathematics Seminar I ♦ *On the Query Complexity of Boolean Monotonicity Testing* ♦ **Xi Chen**, Columbia University

Marston Morse Lectures ♦ *Regularity Methods in Combinatorics, Number Theory, and Computer Science* ♦ **Jacob Fox**, Stanford University

#### October 25

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Computer Science/Discrete Mathematics  
Seminar II ♦ *Sum of Squares, Quantum Entanglement, and Log Rank* ♦ **David Steurer**, Cornell University; Member, School of Mathematics

Princeton/IAS Symplectic Geometry  
Seminar ♦ *Towards a Theory of Singular Symplectic Varieties* ♦ **Aleksey Zinger**, Stony Brook University, The State University of New York

Marston Morse Lectures ♦ *Arithmetic Regularity, Removal, and Progressions* ♦ **Jacob Fox**, Stanford University

Auroux Watching Seminar

### October 26

Homological Mirror Symmetry (minicourse) ♦ *Logarithmic Gromov-Witten Invariants* ♦ **Helge Ruddat**, Johannes Gutenberg-Universität Mainz; Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math-Physics Seminar ♦ *The Sachdev-Ye-Kitaev Quantum Mechanics Model, Black Holes, and Random Matrices* ♦ **Douglas Stanford**, Member, School of Natural Sciences

Marston Morse Lectures ♦ *Dependent Random Choice* ♦ **Jacob Fox**, Stanford University

Mathematical Conversations ♦ *Phase Transitions and Symmetry Breaking* ♦ **Ian Jauslin**, Member, School of Mathematics

### October 27

Reading Group on Punctured Log Gromov-Witten Theory

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *The Arithmetic of Noncongruence Subgroups of  $SL(2, \mathbb{Z})$*  ♦ **William Yun Chen**, Member, School of Mathematics

### October 28

Homological Mirror Symmetry (minicourse) ♦ *Logarithmic Gromov-Witten Invariants* ♦ **Helge Ruddat**, Johannes Gutenberg-Universität Mainz; Member, School of Mathematics

### October 29

Workshop on Topology: Identifying Order in Complex Systems ♦ *Directed Co/Homology Sheaves for Pursuit/Evasion Games* ♦ **Robert Ghrist**, University of Pennsylvania ♦ *Minimizers of the Landau-de Gennes Energy Around a Spherical Colloid Particle* ♦ **Lia Bronsard**, McMaster University ♦ *Global Defect Topology in Nematic Liquid Crystals* ♦ **Thomas Machon**, University of Pennsylvania ♦ *Distance Functions, Data, and Comparison Geometry* ♦ **Steven Ferry**, Rutgers, The State University of New Jersey ♦ *No*

*Equations, No Parameters, No Variables: Data and the Reconstruction of Normal Forms by Learning Informed Observation Geometries* ♦ **Yannis Kevrekidis**, Princeton University

### October 31

Workshop on Emerging Topics

Computer Science/Discrete Mathematics  
Seminar I ♦ *Communication Complexity of Approximate Nash Equilibria* ♦ **Aviad Rubinstein**, University of California, Berkeley

Members' Seminar ♦ *Reciprocity Laws for Torsion Classes* ♦ **Ana Caraiani**, Universität Bonn

### November 1

Workshop on Emerging Topics

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Computer Science/Discrete Mathematics  
Seminar II ♦ *Settling the Complexity of Computing Approximate Two-Player Nash Equilibria* ♦ **Aviad Rubinstein**, University of California, Berkeley

Princeton/IAS Symplectic Geometry  
Seminar ♦ *Lagrangian Whitney Sphere Links* ♦ **Ivan Smith**, University of Cambridge

Auroux Watching Seminar

### November 2

Workshop on Emerging Topics

Homological Mirror Symmetry Seminar ♦ *Riemann-Hilbert Correspondence Revisited* ♦ **Yan Soibelman**, Kansas State University

Reading Group on Homological Mirror Symmetry and K3 Surfaces

### November 3

Workshop on Emerging Topics

### November 4

Workshop on Emerging Topics

Homological Mirror Symmetry Reading Group ♦ *A Proof of Gamma Conjecture in Some Cases via Mirror Symmetry* ♦ **Hiroshi Iritani**, Kyoto University

Members' Seminar ♦ *Counting Galois Representations* ♦ **Frank Calegari**, The University of Chicago

Mathematical Conversations ♦ *Asymptotic Representation Theory over  $\mathbb{Z}$*  ♦ **Thomas Church**, Stanford University; Member, School of Mathematics

### November 7

Workshop on Homological Mirror Symmetry: Methods and Structures

Computer Science/Discrete Mathematics  
Seminar I ♦ *Non-unique Games over Compact Groups and Orientation Estimation in Cryo-EM* ♦ **Amit Singer**, Princeton University

### November 8

Workshop on Homological Mirror Symmetry: Methods and Structures

Computer Science/Discrete Mathematics  
Seminar II ♦ *Exact Tensor Completion via Sum of Squares* ♦ **Aaron Potechin**, Member, School of Mathematics

### November 9

Workshop on Homological Mirror Symmetry: Methods and Structures

Working Seminar on Representation Theory ♦ *C-Representation Theory of  $p$ -adic Groups through the Glass of Types* ♦ **Ju-Lee Kim**, Massachusetts Institute of Technology; Visiting Professor, School of Mathematics

Analysis Math-Physics Seminar ♦ *Strong Ballistic Transport for Quasiperiodic Schrödinger Operators and Lieb-Robinson Bounds for XY Spin Chains* ♦ **Ilya Kachkovskiy**, Member, School of Mathematics

### November 10

Workshop on Homological Mirror Symmetry: Methods and Structures

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Albanese of Picard Modular Surfaces, and Rational Points* ♦ **Mladen Dimitrov**, Université Lille 1

### November 11

Workshop on Homological Mirror Symmetry: Methods and Structures

### November 12

Facets of Differential Privacy Symposium ♦ *Composition: The Key to Differential Privacy is Success* ♦ **Guy Rothblum**, Weizmann Institute ♦ *Differentially Private Algorithms: Some Primitives and Paradigms* ♦ **Kunal Talwar**, Google Brain ♦ *Dusting for Fingerprints in Private Data* ♦ **Jonathan Ullman**, Northeastern University ♦ *Differential Privacy in Context: Conceptual and Ethical Considerations* ♦ **Helen Nissenbaum**, Cornell Tech and New York University ♦ *Rigorous Data Dredging: Theory and Tools for Adaptive Data Analysis* ♦ **Aaron Roth**, University of Pennsylvania

### November 14

Computer Science/Discrete Mathematics  
Seminar I ♦ *The Mathematics of Natural Algorithms* ♦ **Bernard Chazelle**, Princeton University

Members' Seminar ♦ *Eigenvalue Bounds on Sums of Random Matrices* ♦ **Adam Marcus**, Princeton University; von Neumann Fellow, School of Mathematics

### November 15

Computer Science/Discrete Mathematics Seminar II ♦ *Non-malleable Extractors for Constant Depth Circuits, and Affine Functions* ♦ **Eshan Chattopadhyay**, Member, School of Mathematics

Homological Mirror Symmetry Reading Group ♦ *Gamma Class from Gauged Linear Sigma Models and B-Brane Transport* ♦ **Mauricio Romo**, Member, School of Natural Sciences

Princeton/IAS Symplectic Geometry Seminar ♦ *The Gauged Symplectic Sigma-Model* ♦ **Constantin Teleman**, University of California, Berkeley, and University of Oxford

Auroux Watching Seminar

### November 16

Working Seminar on Representation Theory ♦ *p-adic Representations of p-adic Groups* ♦ **Daniel Le**, Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math-Physics Seminar ♦ *Free Dynamics of a Tracer Particle in a Fermi Sea* ♦ **Sören Petrat**, Member, School of Mathematics

Mathematical Conversations ♦ *The Uncertainty Principle* ♦ **Charles Fefferman**, Princeton University

### November 17

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Nonabelian Cohen-Lenstra Heuristics and Function Field Theorems* ♦ **Melanie Wood**, University of Wisconsin–Madison

### November 21

Computer Science/Discrete Mathematics Seminar I ♦ *On the Effect of Randomness on Planted 3-Coloring Models* ♦ **Uri Feige**, Weizmann Institute of Science

Members' Seminar ♦ *Modular Forms with Small Fourier Coefficients* ♦ **Florian Sprung**, Princeton University; Visitor, School of Mathematics

### November 22

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Computer Science/Discrete Mathematics Seminar II ♦ *Theory of Accelerated Methods* ♦ **Zeyuan Allen-Zhu**, Member, School of Mathematics

Auroux Watching Seminar

### November 23

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Mathematical Conversations ♦ *Noncongruence Subgroups of  $SL(2, \mathbb{Z})$*  ♦ **William Yun Chen**, Member, School of Mathematics

### November 28

Computer Science/Discrete Mathematics Seminar I ♦ *Stochastic Block Models and Probabilistic Reductions* ♦ **Emmanuel Abbe**, Princeton University

Members' Seminar ♦ *Asymptotic Representation Theory over  $\mathbb{Z}$*  ♦ **Thomas Church**, Stanford University; Member, School of Mathematics

### November 29

Computer Science/Discrete Mathematics Seminar II ♦ *Combinatorial Rigidity of Graphs Embedded in  $\mathbb{R}^2$*  ♦ **Orit Esther Raz**, Member, School of Mathematics

Princeton/IAS Symplectic Geometry Seminar ♦ *Rectification and the Floer Complex: Quantizing Lagrangians in  $T^*N$*  ♦ **Claude Viterbo**, Ecole Normale Supérieure, Paris ♦  *$C^0$  Hamiltonian Dynamics and a Counterexample to the Arnold Conjecture* ♦ **Sobhan Seyfaddini**, Member, School of Mathematics

Auroux Watching Seminar

### November 30

Homological Mirror Symmetry (minicourse) ♦ *Noncommutative Geometry, Smoothness, and Fukaya Categories* ♦ **Sheel Ganatra**, Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math-Physics Seminar ♦ *A Spectral Gap in  $SL^2(\mathbb{R})$  and Applications: Expansion, Furstenberg Measures, and the Anderson-Bernoulli Model* ♦ **Jean Bourgain**, IBM von Neumann Professor, School of Mathematics

Special Seminar ♦ *Modulo  $p$  Representations of Reductive  $p$ -adic Groups: Functorial Properties* ♦ **Marie-France Vignéras**, Institut de Mathématiques de Jussieu

### December 1

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Integral Points on Moduli Schemes and Thue Equations* ♦ **Rafael von Känel**, Princeton University

### December 2

Homological Mirror Symmetry (minicourse) ♦ *Noncommutative Geometry, Smoothness, and Fukaya Categories* ♦ **Sheel Ganatra**, Member, School of Mathematics

Mathematical Conversations ♦ *Revisiting Isoperimetric Inequalities for Lagrangians* ♦ **Claude Viterbo**, Ecole Normale Supérieure, Paris

### December 5

Computer Science/Discrete Mathematics Seminar I ♦ *On the Number of Ordinary Lines Determined by Sets in Complex Space* ♦ **Shubhangi Saraf**, Rutgers, The State University of New Jersey

Members' Seminar ♦ *Types and Their Applications* ♦ **Ju-Lee Kim**, Massachusetts Institute of Technology; Visiting Professor, School of Mathematics

### December 6

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Computer Science/Discrete Mathematics Seminar II ♦ *Approximate Constraint Satisfaction Requires Subexponential Size Linear Programs* ♦ **Pravesh Kothari**, Princeton University; Member, School of Mathematics

Princeton/IAS Symplectic Geometry Seminar ♦ *Contact Manifolds with Flexible Fillings* ♦ **Oleg Lazarev**, Stanford University

Auroux Watching Seminar

### December 7

Working Seminar on Representation Theory ♦ *Mirror Symmetry on the Bruhat-Tits Building and Representations of  $p$ -adic Groups* ♦ **Dmitry Vaintrob**, Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math-Physics Seminar ♦ *Introduction to Many-Body Localization* ♦ **David Huse**, Princeton University

Mathematical Conversations ♦ *Negative Correlation and Hodge-Riemann Relations* ♦ **June Huh**, Princeton University; Veblen Fellow, School of Mathematics

### December 8

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Arithmetic and Geometry of Picard Modular Surfaces* ♦ **Dinakar Ramakrishnan**, California Institute of Technology; Visitor, School of Mathematics

## December 12

Computer Science/Discrete Mathematics Seminar I ♦ *On Gradient Complexity of Measures on the Discrete Cube* ♦ **Ronen Eldan**, Weizmann Institute of Science

Members' Seminar ♦ *Points and Lines* ♦ **Nathaniel Bottman**, Member, School of Mathematics

## December 13

Homological Mirror Symmetry Reading Group ♦ *Gamma-Integral Structures Reading Group*

Computer Science/Discrete Mathematics Seminar II ♦ *Sum of Squares Lower Bounds for Refuting Any CSP* ♦ **Pravesh Kothari**, Princeton University; Member, School of Mathematics

Princeton/IAS Symplectic Geometry Seminar ♦ *Positive Loops of Loose Legendrians and Applications* ♦ **Guogang Liu**, Université de Nantes ♦ *Log Geometric Techniques for Open Invariants in Mirror Symmetry* ♦ **Nurömür Hülya Argüz**, Member, School of Mathematics

Auroux Watching Seminar

## December 14

Homological Mirror Symmetry (minicourse) ♦ *Numerical Invariants from Bounding Chains* ♦ **Jake Solomon**, The Hebrew University of Jerusalem; Visitor, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

## December 15

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *On the Spectrum of Faltings Height* ♦ **Juan Rivera-Letelier**, University of Rochester

## December 16

Homological Mirror Symmetry (minicourse) ♦ *Numerical Invariants from Bounding Chains* ♦ **Jake Solomon**, The Hebrew University of Jerusalem; Visitor, School of Mathematics

## January 17

Computer Science/Discrete Mathematics Seminar I ♦ *The Polynomial Method and the Cap Set Problem* ♦ **Jordan Ellenberg**, University of Wisconsin–Madison

Computer Science/Discrete Mathematics Seminar II ♦ *The Polynomial Method: More Results and Open Questions* ♦ **Jordan Ellenberg**, University of Wisconsin–Madison

## January 18

Homological Mirror Symmetry (organizational meeting)

Homological Mirror Symmetry (minicourse) ♦ *Constructible Sheaves in Symplectic Topology* ♦ **David Treumann**, Boston College; von Neumann Fellow, School of Mathematics

## January 20

Homological Mirror Symmetry (minicourse) ♦ *Constructible Sheaves in Mirror Symmetry* ♦ **David Treumann**, Boston College; von Neumann Fellow, School of Mathematics

## January 23

Computer Science/Discrete Mathematics Seminar I ♦ *Active Learning with “Simple” Membership Queries* ♦ **Shachar Lovett**, University of California, San Diego

Members' Seminar ♦ *Combinatorics of the Amplituhedron* ♦ **Lauren Williams**, University of California, Berkeley; von Neumann Fellow, School of Mathematics

## January 24

Computer Science/Discrete Mathematics Seminar II ♦ *Robust Sensitivity* ♦ **Shachar Lovett**, University of California, San Diego

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Special Mathematical Physics Seminar ♦ *Reinforced Random Walks and Statistical Physics* ♦ **Pierre Tarres**, Université Paris-Dauphine

## January 25

Analysis Math–Physics Seminar ♦ *Large Coupling Asymptotics for the Lyapunov Exponent of Quasi-periodic Schrödinger Operators with Analytic Potentials* ♦ **Christoph Marx**, Oberlin College

Mathematical Conversations ♦ *Voevodsky's Univalent Foundations for Mathematics* ♦ **Daniel Grayson**, University of Illinois at Urbana-Champaign; Visitor, School of Mathematics

## January 27

Working Seminar on Representation Theory ♦ *A Gelfand–Graev Formula and Stable Transfer Factors for  $SL_n$*  ♦ **Daniel Johnstone**, The University of Chicago

## January 30

Computer Science/Discrete Mathematics Seminar I ♦ *Quantifying Tradeoffs between Fairness and Accuracy in Online Learning* ♦ **Aaron Roth**, University of Pennsylvania

Members' Seminar ♦ *Homological versus Hodge-Theoretic Mirror Symmetry* ♦ **Timothy Perutz**, The University of Texas at Austin; von Neumann Fellow, School of Mathematics

Short Talks by Postdoctoral Members ♦ *Monotone Lagrangians in Euclidean Spaces* ♦ **Ailsa Keating**, Member, School of Mathematics ♦ *The Space of Equations for an Algebraic Curve* ♦ **Dhruv Ranganathan**, Member, School of

Mathematics ♦ *First Steps of Non-Archimedean Enumerative Geometry* ♦ **Tony Yue Yu**, Visitor, School of Mathematics

## January 31

Computer Science/Discrete Mathematics Seminar II ♦ *Sketching and Embedding Are Equivalent for Norms* ♦ **Alex Andoni**, Columbia University

Floer Homology and Khovanov Homology Reading Group

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Reading Group on Quantization of BCOV and the Higher–Genus B–Model

## February 1

Homological Mirror Symmetry (minicourse) ♦ *Noncommutative Algebraic Varieties, Their Properties and Geometric Realizations* ♦ **Dmitri Orlov**, Steklov Mathematical Institute, Russian Academy of Sciences; Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces ♦ *The Yau–Zaslow Conjecture/KMPS Theorem* ♦ **Amitai Netser Zernik**, Member, School of Mathematics

Mathematical Conversations ♦ *Lagrangian Tori, Mutations, and Toric Degenerations* ♦ **Denis Auroux**, University of California, Berkeley; Member, School of Mathematics

## February 2

Princeton/IAS Symplectic Geometry Seminar ♦ *Relative Quantum Product and Open WDVV Equations* ♦ **Sara Tukachinsky**, Université de Montréal

Joint IAS/Princeton University Number Theory Seminar ♦ *Superconnections and Special Cycles* ♦ **Luis Garcia**, University of Toronto

## February 3

Homological Mirror Symmetry (minicourse) ♦ *Noncommutative Algebraic Varieties, Their Properties and Geometric Realizations* ♦ **Dmitri Orlov**, Steklov Mathematical Institute, Russian Academy of Sciences; Member, School of Mathematics

## February 6

Computer Science/Discrete Mathematics Seminar I ♦ *Strongly Refuting Random CSPs below the Spectral Threshold* ♦ **Prasad Raghavendra**, University of California, Berkeley

Members' Seminar ♦ *Local Systems and the Hofer–Zehnder Capacity* ♦ **Alexandru Oancea**, Université Pierre et Marie Curie; Member, School of Mathematics

## February 7

Computer Science/Discrete Mathematics Seminar II ♦ *Optimization in Dynamical Systems* ♦ **Amir Ali Ahmadi**, Princeton University

Floer Homology and Khovanov Homology Reading Group

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

## February 8

Homological Mirror Symmetry (minicourse) ♦ *Noncommutative Algebraic Varieties, Their Properties and Geometric Realizations II* ♦ **Dmitri Orlov**, Steklov Mathematical Institute, Russian Academy of Sciences; Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math–Physics Seminar ♦ *Discrete Harmonic Analysis and Applications to Ergodic Theory* ♦ **Mariusz Mirek**, Universität Bonn; Member, School of Mathematics

## February 9

Princeton/IAS Symplectic Geometry Seminar ♦ *Gromov–Witten Theory of Locally Conformally Symplectic Manifolds and the Fuller Index* ♦ **Yakov Savelyev**, Universidad de Colima

Reading Group on Mirror Symmetry by Examples ♦ **Lev Borisov**, Rutgers, The State University of New Jersey; Member, School of Mathematics

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Diophantine Problems and the  $p$ -adic Torelli Map* ♦ **Brian Lawrence**, Stanford University

## February 10

Working Seminar on Representation Theory ♦ *Canonical Bases Arising from Quantum Symmetric Pairs* ♦ **Huanchen Bao**, Member, School of Mathematics

Mathematical Conversations ♦ *The Positive Grassmannian* ♦ **Lauren Williams**, University of California, Berkeley; von Neumann Fellow, School of Mathematics

## February 13

Emerging Topics Workshop on Nodal Sets of Eigenfunctions

Computer Science/Discrete Mathematics Seminar I ♦ *Nearest Neighbor Search for General Symmetric Norms via Embeddings into Product Spaces* ♦ **Ilya Razenshteyn**, Massachusetts Institute of Technology

Members’ Seminar ♦ *Mirror Symmetry via Berkovich Geometry I: Overview* ♦ **Tony Yue Yu**, Visitor, School of Mathematics

## February 14

Emerging Topics Workshop on Nodal Sets of Eigenfunctions

Computer Science/Discrete Mathematics Seminar II ♦ *A Unified Duality-Based Approach to Bayesian Mechanism Design* ♦ **Matt Weinberg**, Princeton University

Floer Homology and Khovanov Homology Reading Group

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Reading Group on Quantization of BCOV and the Higher–Genus B–Model ♦ *Perturbative Quantization and Master Equation* ♦ **James Pascaleff**, University of Illinois at Urbana–Champaign; Member, School of Mathematics

## February 15

Emerging Topics Workshop on Nodal Sets of Eigenfunctions

Homological Mirror Symmetry (minicourse) ♦ *Mirror Symmetry via Berkovich Geometry II: The Non–Archimedean SYZ Fibration* ♦ **Tony Yue Yu**, Visitor, School of Mathematics

Analysis Math–Physics Seminar ♦ *Functional Inequalities and Gradient Flow for Quantum Evolution* ♦ **Eric Carlen**, Rutgers, The State University of New Jersey

Mathematical Conversations ♦ *Random Permutations and Statistical Mechanics* ♦ **Thomas Spencer**, Professor, School of Mathematics

## February 16

Emerging Topics Workshop on Nodal Sets of Eigenfunctions

Princeton/IAS Symplectic Geometry Seminar ♦  *$C^\infty$  Closing Lemma for Three–Dimensional Reeb Flows via Embedded Contact Homology* ♦ **Kei Irie**, Kyoto University

Reading Group on Mirror Symmetry by Examples ♦ **Lev Borisov**, Rutgers, The State University of New Jersey; Member, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar ♦ *16–Rank of Class Groups of Quadratic Number Fields* ♦ **Djordjo Zeljko Milovic**, Member, School of Mathematics

## February 17

Emerging Topics Workshop on Nodal Sets of Eigenfunctions

Homological Mirror Symmetry (minicourse) ♦ *Mirror Symmetry via Berkovich Geometry III: Log Calabi–Yau Surfaces* ♦ **Tony Yue Yu**, Visitor, School of Mathematics

## February 21

Computer Science/Discrete Mathematics Seminar II ♦ *Program Obfuscation: Outside the Black Box* ♦ **Omer Paneth**, Massachusetts Institute of Technology

Floer Homology and Khovanov Homology Reading Group ♦ *Algebraic and Geometric Formality Results for Fukaya Categories* ♦ **Dingyu Yang**, Member, School of Mathematics

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Marston Morse Lectures ♦ *Folding Papers and Turbulent Flows* ♦ **Camillo De Lellis**, Universität Zürich

## February 22

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math–Physics Seminar ♦ *Singularity Formation in Incompressible Fluids* ♦ **Tarek Elgindi**, Princeton University

Mathematical Conversations ♦ *“Geometric Group Theory” for Homeomorphisms Groups?* ♦ **Frédéric Le Roux**, Institut de Mathématiques de Jussieu

## February 23

Princeton/IAS Symplectic Geometry Seminar ♦ *Symplectic Homology for Cobordisms* ♦ **Alexandru Oancea**, Université Pierre et Marie Curie; Member, School of Mathematics

Working Group on Algebraic Number Theory

Reading Group on Mirror Symmetry by Examples

Marston Morse Lectures ♦ *Folding Papers and Turbulent Flows* ♦ **Camillo De Lellis**, Universität Zürich

Joint IAS/Princeton University Number Theory Seminar ♦ *The Subconvexity Problem* ♦ **Ritabrata Munshi**, Tata Institute of Fundamental Research, Mumbai

## February 24

Working Seminar on Representation Theory ♦ *Cocenters and Representations of Affine Hecke Algebras* ♦ **Xuhua He**, University of Maryland; von Neumann Fellow, School of Mathematics

Marston Morse Lectures ♦ *Folding Papers and Turbulent Flows* ♦ **Camillo De Lellis**, Universität Zürich

### February 27

Computer Science/Discrete Mathematics Seminar I ♦ *New Insights on the (non)-Hardness of Circuit Minimization and Related Problems* ♦ **Eric Allender**, Rutgers, The State University of New Jersey

Members' Seminar ♦ *The Meta-Theory of Dependent Type Theories* ♦ **Vladimir Voevodsky**, Professor, School of Mathematics

### February 28

Computer Science/Discrete Mathematics Seminar II ♦ *Structural and Computational Aspects of Brascamp-Lieb Inequalities* ♦ **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

Floer Homology and Khovanov Homology Reading Group ♦ *Examples of Formality Results for Fukaya Categories* ♦ **John Pardon**, Visitor, School of Mathematics

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Reading Group on Quantization of BCOV and the Higher–Genus B–Model ♦ *Perturbative Quantization and Master Equation (cont'd)* ♦ **James Pascaleff**, University of Illinois at Urbana–Champaign; Member, School of Mathematics

### March 1

Homological Mirror Symmetry (minicourse) ♦ *Canonical Coordinates for Calabi-Yau Manifolds I* ♦ **Sean Keel**, The University of Texas at Austin; Member, School of Mathematics

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math–Physics Seminar ♦ *Hyperuniformity in Many-Particle Systems and Its Generalizations* ♦ **Salvatore Torquato**, Princeton University

Mathematical Conversations ♦ *Categories and Filtrations* ♦ **Ludmil Katzarkov**, Universität Wien; Member, School of Mathematics

### March 2

Princeton/IAS Symplectic Geometry Seminar ♦ *Liouville Sectors and Local Open–Closed Map* ♦ **John Pardon**, Visitor, School of Mathematics

Working Group on Algebraic Number Theory

Reading Group on Mirror Symmetry by Examples

Joint IAS/Princeton University Number Theory Seminar ♦ *Real Structures on Ordinary Abelian Varieties* ♦ **Mark Goresky**, Visitor, School of Mathematics

### March 3

Homological Mirror Symmetry (minicourse) ♦ *Canonical Coordinates for Calabi-Yau Manifolds II* ♦ **Sean Keel**, The University of Texas at Austin; Member, School of Mathematics

### March 6

Computer Science/Discrete Mathematics Seminar I ♦ *Interactive Coding with Nearly Optimal Round and Communication Blowup* ♦ **Yael Kalai**, Microsoft Research New England

Members' Seminar ♦ *Information Complexity and Applications* ♦ **Mark Braverman**, Princeton University; von Neumann Fellow, School of Mathematics

### March 7

Computer Science/Discrete Mathematics Seminar II ♦ *Some Basic Problems and Results from Invariant Theory* ♦ **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

Floer Homology and Khovanov Homology Reading Group ♦ *Gauge Theory and the Jones Polynomial* ♦ **Joel Clingempeel**, Rutgers, The State University of New Jersey

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Reading Group on Quantization of BCOV and the Higher–Genus B–Model ♦ *Perturbative Quantization and Master Equation (cont'd)* ♦ **James Pascaleff**, University of Illinois at Urbana–Champaign; Member, School of Mathematics

### March 8

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Special Representation Theory Seminar ♦ *“Small” Representations of Finite Classical Groups* ♦ **Shamgar Gurevich**, University of Wisconsin and Yale University

Special Representation Theory Seminar ♦ *On the Role of Rank in Representation Theory of the Classical Groups* ♦ **Roger Howe**, Yale University and Texas A&M University

Mathematical Conversations ♦ *Geometric Realizations of Algebraic Objects* ♦ **Dmitri Orlov**, Steklov Mathematical Institute, Russian Academy of Sciences; Member, School of Mathematics

### March 9

Princeton/IAS Symplectic Geometry Seminar ♦ *Fukaya Categories and Variation of Symplectic Form* ♦ **Chris Woodward**, Rutgers, The State University of New Jersey

Working Group on Algebraic Number Theory

Reading Group on Mirror Symmetry by Examples ♦ *HMS for  $CP^2$  and Its Toric Noncommutative Deformations* ♦ **Denis Auroux**, University of California, Berkeley; Member, School of Mathematics

Princeton Neuroscience Institute Seminar ♦ *The “P vs. NP” Problem: Efficient Computation, Internet Security, and the Limits to Human Knowledge* ♦ **Avi Wigderson**, Herbert H. Maass Professor, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar ♦ *On Small Sums of Roots of Unity* ♦ **Philipp Habegger**, Universität Basel

### March 13

Workshop on Homological Mirror Symmetry: Emerging Developments and Applications

Computer Science/Discrete Mathematics Seminar I ♦ *On the Cryptographic Hardness of Finding a Nash Equilibrium* ♦ **Nir Bitansky**, Massachusetts Institute of Technology

Computer Science/Discrete Mathematics Seminar II ♦ *Indistinguishability Obfuscation from 5-Linear Maps: A Reduction from Flying Pigs to Jumping Pigs* ♦ **Nir Bitansky**, Massachusetts Institute of Technology

### March 15

Workshop on Homological Mirror Symmetry: Emerging Developments and Applications

### March 16

Workshop on Homological Mirror Symmetry: Emerging Developments and Applications

Joint IAS/Princeton University Number Theory Seminar ♦ *Mirror Symmetry and Another Look at Kloosterman Sums* ♦ **Nicolas Templier**, Cornell University

### March 17

Workshop on Homological Mirror Symmetry: Emerging Developments and Applications

Joint BCOV/Hodge–de Rham Reading Group ♦ *Calabi-Yau Geometry and Quantum B-Model* ♦ **Si Li**, Tsinghua University

### March 20

Computer Science/Discrete Mathematics Seminar I ♦ *Approximate Counting and the Lovasz Local Lemma* ♦ **Ankur Moitra**, Massachusetts Institute of Technology

Members' Seminar ♦ *Efficient Non-convex Polynomial Optimization and the Sum-of-squares Hierarchy* ♦ **David Steurer**, Cornell University; Member, School of Mathematics

### March 21

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

### March 22

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Mathematical Conversations ♦ *Poincaré Duality in Loop Spaces* ♦ **Nancy Hingston**, The College of New Jersey

### March 23

Princeton/IAS Symplectic Geometry Seminar ♦ *The Simplification of Caustics* ♦ **Daniel Alvarez-Gavela**, Stanford University

### March 24

Princeton/IAS Symplectic Geometry Seminar ♦ *Continuous Covers on Symplectic Manifolds* ♦ **François Lalonde**, Université de Montréal

### March 27

Computer Science/Discrete Mathematics Seminar I ♦ *Applications of Monotone Constraint Satisfaction* ♦ **Robert Robere**, University of Toronto

Members' Seminar ♦ *Extremal Problems in Combinatorial Geometry* ♦ **Orit Esther Raz**, Member, School of Mathematics

Reading Group on Mirror Symmetry by Examples ♦ **Denis Auroux**, University of California, Berkeley; Member, School of Mathematics

### March 28

Computer Science/Discrete Mathematics Seminar II ♦ *Applications of Monotone Constraint Satisfaction* ♦ **Robert Robere**, University of Toronto

Floer Homology and Khovanov Homology Reading Group ♦ *Mirror Symmetry for  $T^*P^1$  and Conjectural Models for Khovanov Homology* ♦ **Mohammed Abouzaid**, Columbia University; Visitor, School of Mathematics

Working Group on Algebraic Number Theory

### March 29

Homological Mirror Symmetry (minicourse) ♦ *Homological Mirror Symmetry for the Pair of Pants* ♦ **Denis Auroux**, University of California, Berkeley; Member, School of Mathematics

Analysis Math–Physics Seminar ♦ *Applications of Twisted Technology* ♦ **Christoph Thiele**, University of California, Los Angeles ♦ *On Structure Results for Intertwining Operators* ♦ **Wilhelm Schlag**, The University of Chicago

### March 30

Princeton/IAS Symplectic Geometry Seminar ♦ *The Many Forms of Rigidity for Symplectic Embeddings* ♦ **Felix Schlenk**, Université de Neuchâtel ♦ *The Stabilized Symplectic Embedding Problem* ♦ **Dusa McDuff**, Columbia University

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Galois Representations for the General Symplectic Group* ♦ **Arno Kret**, University of Amsterdam

### March 31

Homological Mirror Symmetry (minicourse) ♦ *Speculations about Homological Mirror Symmetry for Affine Hypersurfaces* ♦ **Denis Auroux**, University of California, Berkeley; Member, School of Mathematics

Princeton/IAS Symplectic Geometry Seminar ♦ *Rigid Holomorphic Curves Are Generically Super-rigid* ♦ **Chris Wendt**, Humboldt-Universität zu Berlin

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Mathematical Conversations ♦ *String Topology from the Symplectic Viewpoint* ♦ **Alexandru Oancea**, Université Pierre et Marie Curie; Member, School of Mathematics

### April 1

Workshop on Topology: Identifying Order in Complex Systems ♦ *Complexity in Different Contexts* ♦ **Saugata Basu**, Purdue University ♦ *Auxetic Deformations and Elliptic Curves* ♦ **Ciprian Borcea**, Rider University ♦ *A Change in Stripes for Cholesteric Shells via Modulated Anchoring* ♦ **Lisa Tran**, University of Pennsylvania ♦ *Contact Invariants and Reeb Dynamics* ♦ **Jo Nelson**, Columbia University ♦ *Multiscale Methods for Dictionary Learning, Regression, and Optimal Transport for Data Near Low-Dimensional Sets* ♦ **Mauro Maggioni**, Johns Hopkins University

### April 3

Computer Science/Discrete Mathematics Seminar I ♦ *A Time-Space Lower Bound for a Large Class of Learning Problems* ♦ **Ran Raz**, Weizmann Institute of Science

Members' Seminar ♦ *Algebra and Geometry of the Scattering Equations* ♦ **Peter Goddard**, Professor Emeritus, School of Natural Sciences

Reading Group on Mirror Symmetry by Examples ♦ *Mirror Symmetry for a Toric Calabi-Yau 3-Fold* ♦ **Bohan Fang**, Peking University; Member, School of Mathematics

### April 4

Computer Science/Discrete Mathematics Seminar II ♦ *Computability and Complexity in Analysis and Dynamics* ♦ **Mark Braverman**, Princeton University; von Neumann Fellow, School of Mathematics

Floer Homology and Khovanov Homology Reading Group ♦ *A Khovanov Stable Homotopy Type* ♦ **Francesco Lin**, Princeton University; Veblen Research Instructor, School of Mathematics

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences

Informal Talk ♦ *On Zimmer's Conjecture* ♦ **Sebastian Hurtado-Salazar**, The University of Chicago

### April 5

Reading Group on Quantization of BCOV and the Higher-Genus B-Model ♦ **Mauricio Romo**, Member, School of Natural Sciences

Analysis Math–Physics Seminar ♦ *Unwinding the Amplituhedron* ♦ **Nima Arkani-Hamed**, Professor, School of Natural Sciences

Informal Talk ♦ *On Zimmer's Conjecture* ♦ **Sebastian Hurtado-Salazar**, The University of Chicago

Mathematical Conversations ♦ *Almost Commuting Matrices: Finite- and Infinite-Dimensional Proofs* ♦ **Ilya Kachkovskiy**, Member, School of Mathematics

### April 6

Princeton/IAS Symplectic Geometry Seminar ♦ *On Zimmer's Conjecture* ♦ **Sebastian Hurtado-Salazar**, The University of Chicago

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Basic Loci of Shimura Varieties* ♦ **Xuhua He**, University of Maryland; von Neumann Fellow, School of Mathematics

### April 7

Homological Mirror Symmetry Mini-Workshop ♦ *Two Rigid Algebras and a Heat Kernel* ♦ **Amitai Netser Zernik**, Member, School of Mathematics

Homological Mirror Symmetry Mini-Workshop ♦ *Theta Functions and Quiver Representations* ♦ **Man Wai Cheung**, Member, School of Mathematics

Homological Mirror Symmetry Mini-Workshop ♦ *Symplectic Dehn Twists from Spherical Manifolds* ♦ **Cheuk Yu Mak**, Member, School of Mathematics

### April 10

Computer Science/Discrete Mathematics Seminar I ♦ *In Pursuit of Obfuscation* ♦ **Allison Bishop**, Columbia University

Reading Group on Mirror Symmetry by Examples

#### April 11

Computer Science/Discrete Mathematics Seminar II ♦ *Noncommutative Probability for Computer Scientists* ♦ **Adam Marcus**, Princeton University; von Neumann Fellow, School of Mathematics

Floer Homology and Khovanov Homology Reading Group ♦ *Gauge-Theoretic and Symplectic-Topological Aspects of the Haydys-Witten Equations* ♦ **Daniel Vitek**, Princeton University

#### April 12

Homological Mirror Symmetry (minicourse) ♦ *Mirror Symmetry for Moduli of Flat Bundles and Non-Abelian Hodge Theory* ♦ **Tony Pantev**, University of Pennsylvania

Analysis Math-Physics Seminar ♦ *Soliton Resolution for Energy Critical Wave and Wave Map Equations* ♦ **Hao Jia**, Member, School of Mathematics

Reading Group on Degeneration of Hodge–de Rham Spectral Sequences ♦ *Algebraic Proofs of Degenerations of Hodge–de Rham Complexes* ♦ **Andrei Căldăraru**, University of Wisconsin–Madison

Mathematical Conversations ♦ *Equidistribution + Arakelov Intersection Theory = Certain Thin Set of Primes Is Infinite* ♦ **Yunqing Tang**, Member, School of Mathematics

#### April 13

Princeton/IAS Symplectic Geometry Seminar ♦ *Sheaves and Contact Non-squeezing in  $\mathbb{R}^{2n} \times S^1$*  ♦ **Sheng-Fu Chiu**, Northwestern University ♦ *Contact Non-squeezing in  $\mathbb{R}^{2n} \times S^1$  by Other Means* ♦ **Maia Fraser**, University of Ottawa

Reading Group on Quantization of BCOV and the Higher-Genus B-Model ♦ *Computing a Categorical Gromov-Witten Invariant* ♦ **Andrei Căldăraru**, University of Wisconsin–Madison

Working Group on Algebraic Number Theory

Reading Group on Quantization of BCOV and the Higher-Genus B-Model ♦ *Givental's Quantization of Semi-simple Frobenius Manifolds* ♦ **Bohan Fang**, Peking University; Member, School of Mathematics

Joint IAS/Princeton University Number Theory Seminar ♦ *Congruences between Motives and Congruences between Values of L-Functions* ♦ **Olivier Fouquet**, Université Paris-Sud 11

#### April 14

Homological Mirror Symmetry (minicourse) ♦ *Mirror Symmetry for Moduli of Flat Bundles and Non-Abelian Hodge Theory* ♦ **Tony Pantev**, University of Pennsylvania

#### April 17

Computer Science/Discrete Mathematics Seminar I ♦ *Efficient Empirical Revenue Maximization in Single-Parameter Auction Environments* ♦ **Yannai Gonczarowski**, The Hebrew University of Jerusalem and Microsoft Israel R&D Center

#### April 18

Computer Science/Discrete Mathematics Seminar II ♦ *Bounds on Roots of Polynomials (and Applications)* ♦ **Adam Marcus**, Princeton University; von Neumann Fellow, School of Mathematics

Reading Group on Quantization of BCOV and the Higher-Genus B-Model ♦ *Derivation of Holomorphic Anomaly Equation* ♦ **Mauricio Romo**, Member, School of Natural Sciences

#### April 19

Reading Group on Homological Mirror Symmetry and K3 Surfaces

Analysis Math-Physics Seminar ♦ *Thermodynamical Approach to the Markoff-Hurwitz Equation* ♦ **Michael Magee**, Yale University ♦ *Billiards and Hodge Theory* ♦ **Simion Filip**, Harvard University

#### April 20

Princeton/IAS Symplectic Geometry Seminar ♦ *Symplectic Field Theory and Codimension-2 Stable Hamiltonian Submanifolds* ♦ **Richard Siefring**, Ruhr-Universität Bochum

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Even Galois Representations and the Cohomology of  $GL(2, \mathbb{Z})$*  ♦ **Avner Ash**, Boston College

#### April 26

Floer Homology and Khovanov Homology Reading Group ♦ *Symplectic Topology and the Haydys-Witten Equations* ♦ **Daniel Vitek**, Princeton University

#### April 27

Princeton/IAS Symplectic Geometry Seminar ♦ *Lagrangian Floer Theory in Symplectic Fibrations* ♦ **Douglas Schultz**, Rutgers, The State University of New Jersey

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *Heights in Families of Abelian Varieties* ♦ **Ziyang Gao**, Visitor, School of Mathematics

#### May 4

Princeton/IAS Symplectic Geometry Seminar ♦ *Floer Theory in Spaces of Stable Pairs over Riemann Surfaces* ♦ **Timothy Perutz**, The University of Texas at Austin; von Neumann Fellow, School of Mathematics

Working Group on Algebraic Number Theory

Joint IAS/Princeton University Number Theory Seminar ♦ *The Cohomology of Local Shimura Varieties* ♦ **Jared Weinstein**, Boston University

#### May 11

Princeton/IAS Symplectic Geometry Seminar ♦ *String Topology Coproduct: Geometric and Algebraic Aspects* ♦ **Manuel Rivera**, University of Miami

Joint IAS/Princeton University Number Theory Seminar ♦ *The  $p$ -Curvature Conjecture and Monodromy about Simple Closed Loops* ♦ **Ananth Shankar**, Harvard University

#### May 15

2017 Women and Mathematics

#### May 16

2017 Women and Mathematics

#### May 17

2017 Women and Mathematics

#### May 18

2017 Women and Mathematics

Joint IAS/Princeton University Number Theory Seminar ♦ *Potential Automorphy of Some Non-self-dual Galois Representations* ♦ **Richard Taylor**, Robert and Luisa Fernholz Professor, School of Mathematics

#### May 19

2017 Women and Mathematics

Analysis Math-Physics Seminar ♦ *Orbital Stability of Standing Waves for Dispersive Models* ♦ **Shijun Zheng**, Georgia Southern University

#### May 23

2017 Women and Mathematics

#### May 24

2017 Women and Mathematics

#### May 25

2017 Women and Mathematics

Joint IAS/Princeton University Number Theory Seminar ♦ *Subconvex Equidistribution of Cusp Forms* ♦ **Paul Nelson**, Eidgenössische Technische Hochschule Zürich

## School of Natural Sciences

### ASTROPHYSICS ACTIVITIES

#### September 6

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *The Observational Quest for the Earliest Galaxies: Progress and Challenges* ♦ **Richard Ellis**, University College London and European Southern Observatory, Germany

#### September 12

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Introductions ♦ Proper Image Subtraction—Optimal Transient Detection, Photometry, and Hypothesis Testing* ♦ **Barak Zackay**, Weizmann Institute of Science

#### September 19

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *High-Redshift Astrophysics Using Every Photon* ♦ **Patrick Breysse**, Johns Hopkins University

#### September 20

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *A Single Prolific r-Process Event Preserved in an Ultra-faint Dwarf Galaxy* ♦ **Anna Frebel**, Massachusetts Institute of Technology and MIT Kavli Institute for Astrophysics and Space Research

#### September 22

Astrophysics Informal Seminar ♦ *Formation of the Hubble Sequence* ♦ **S. Michael Fall**, Space Telescope Science Institute, NASA, Baltimore

#### September 27

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Hydrodynamical Simulations of Galaxy Formation: Progress, Pitfalls, and Promises* ♦ **Volker Springel**, Heidelberger Institut für Theoretische Studien

#### September 29

Astrophysics Informal Seminar ♦ *Chaotic Dances of Vectors: Misaligned Exoplanets, Disks/Rings, and Planet IX* ♦ **Dong Lai**, Cornell University; Visitor, School of Natural Sciences

#### October 3

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Probing Compact Dark Matter* ♦ **Julian Munoz**, Johns Hopkins University

#### October 4

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Frontiers of Radiative Plasma Astrophysics: Powering the Brightest Gamma-Ray Flares by Relativistic*

*Magnetic Reconnection* ♦ **Dmitri Anatoljevich Uzdensky**, University of Colorado; Junior Visiting Professor, School of Natural Sciences

#### October 6

Astrophysics Informal Seminar ♦ *Turbulent Lives: Tales of Neutron Stars* ♦ **David Radice**, Member, School of Natural Sciences

#### October 11

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Challenging Einstein: Lunar Laser Ranging as an Absolute Test* ♦ **Tom Murphy**, University of California, San Diego

#### October 13

Astrophysics Informal Seminar ♦ *The Membrane Paradigm and Black Hole Astrophysics* ♦ **Robert Penna**, Columbia University

#### October 17

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *The Observed Squeezed Limit of Slow-Roll Inflation* ♦ **Giovanni Cabass**, Università degli Studi di Roma, La Sapienza

#### October 18

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *The Polarized Microwave Background: ACTPol and Beyond* ♦ **Jo Dunkley**, Princeton University

#### October 20

Astrophysics Informal Seminar ♦ *Simulating Dark Matter* ♦ **Raúl Angulo**, Centro de Estudios de Física del Cosmos de Aragón

#### October 25

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *The Thermal Odyssey of the Photoionized Intergalactic Medium* ♦ **Matthew McQuinn**, University of Washington; Junior Visiting Professor, School of Natural Sciences

#### October 27

Astrophysics Informal Seminar ♦ *Large-Scale Structure Cross-Correlations* ♦ **Jia Liu**, Princeton University

#### October 31

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Multi-tracing Anisotropic Non-Gaussianity with Galaxy Shapes* ♦ **Elisa Chisari**, University of Oxford

#### November 1

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Chemistry of Protoplanetary Disks and Nascent Planets* ♦ **Karin Öberg**, Harvard-Smithsonian Center for Astrophysics

#### November 3

Astrophysics Informal Seminar ♦ *Asteroseismology Reveals Strong Magnetic Fields in the Cores of Red Giant Stars* ♦ **Jim Fuller**, California Institute of Technology

#### November 7

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Atomic Dark Matter: Predictions for Small-Scale Structure* ♦ **Anna Kwa**, University of California, Irvine

#### November 8

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *The Future in Discovery and the Discovery in the Future* ♦ **Szabolcs Marka**, Columbia University

#### November 15

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Seeking Clues to Explain the Diverse Architectures of Exoplanetary Systems* ♦ **Heather Knutson**, California Institute of Technology

#### November 17

Astrophysics Informal Seminar ♦ *Chondrules: Constraining Protoplanetary Disks* ♦ **Alexander Hubbard**, American Museum of Natural History

#### November 21

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *A New Bias to CMB Lensing Measurements* ♦ **Vanessa Boehm**, Max-Planck-Institut für Astrophysik

#### November 22

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Extraordinary Physics with Millisecond Pulsars* ♦ **Scott Ransom**, National Radio Astronomy Observatory

#### November 29

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *The First High-Resolution X-Ray Spectrum of a Galaxy Cluster* ♦ **Maxim Markevitch**, Goddard Space Flight Center, NASA

#### December 1

Astrophysics Informal Seminar ♦ *Chaos, Stellar Streams, and the Galactic Bar* ♦ **Adrian Price-Whelan**, Princeton University

#### December 5

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *New Information in Ancient Photons: Novel Approaches to CMB Secondary Anisotropies* ♦ **Colin Hill**, Columbia University

## December 6

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Controlling Star Formation, from Clouds to Galaxies* ♦ **Eve C. Ostriker**, Princeton University

## December 8

Astrophysics Informal Seminar ♦ *Cosmic Neutrinos and Large-Scale Structure* ♦ **Marilena Loverde**, Stony Brook University, The State University of New York

## December 13

Institute for Advanced Study/Princeton University Joint Astrophysics Colloquium ♦ *Dark Matter Substructure: Cosmological Treasure Trove or a Pandora's Box?* ♦ **Frank van den Bosch**, Yale University

## December 15

Astrophysics Informal Seminar ♦ *Perturbations Are No Spectator Sport* ♦ **Daniel Grin**, Haverford College

## January 23

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Measuring the CMB Gravitational Lensing Potential with SPTpol* ♦ **Laura Mocz**, The University of Chicago

## February 13

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *General Discussion* ♦ **Matias Zaldarriaga**, Professor, School of Natural Sciences, **David Spergel**, Princeton University, and **Jo Dunkley**, Princeton University

## February 16

Astrophysics Informal Seminar ♦ *Observational Tools for Nonlinear Large-Scale Structure* ♦ **Manfred Schmittfull**, Member, School of Natural Sciences

## February 23

Astrophysics Informal Seminar ♦ *Cosmology of Flavor-Mixed Dark Matter* ♦ **Mikhail Medvedev**, The University of Kansas and Harvard-Smithsonian Center for Astrophysics

## March 1

Astrophysics Informal Seminar ♦ *The Sizes of Kuiper Belt Objects* ♦ **Yanqin Wu**, University of Toronto

## March 2

Astrophysics Informal Seminar ♦ *Seeding Massive Black Holes in Galaxies* ♦ **Jerry Sellwood**, Rutgers, The State University of New Jersey

## March 6

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *General Discussion* ♦ **Matias Zaldarriaga**, Professor, School of Natural

Sciences, **David Spergel**, Princeton University, and **Jo Dunkley**, Princeton University

## March 9

Astrophysics Informal Seminar ♦ *Uncovering the Signatures of Obscured AGN in Mergers* ♦ **Laura Blecha**, University of Maryland

## March 16

Astrophysics Informal Seminar ♦ *Mass Ejection in Common Envelope Interactions: Observational Evidence Begins to Constrain a Long-Standing Theoretical Problem* ♦ **Morgan MacLeod**, Member, School of Natural Sciences

## March 20

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Discussion about CMB-S4 Experiment* ♦ **Matias Zaldarriaga**, Professor, School of Natural Sciences, **David Spergel**, Princeton University, and **Jo Dunkley**, Princeton University

## March 23

Astrophysics Informal Seminar ♦ *Secular Evolution in Discrete Self-gravitating Stellar Discs* ♦ **Jean-Baptiste Fouvy**, Member, School of Natural Sciences

## March 30

Astrophysics Informal Seminar ♦ *Search for Intergalactic Magnetic Fields and Implications* ♦ **Tanmay Vachaspati**, Arizona State University

## April 3

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Lagrangian Models of Galaxy Clustering* ♦ **Emanuele Castorina**, University of California, Berkeley

## April 5

Astrophysics Informal Seminar ♦ *Cosmic Shear as a Probe of Galaxy Formation Physics* ♦ **Simon Foreman**, Canadian Institute for Theoretical Astrophysics

## April 13

Astrophysics Informal Seminar ♦ *Nonlinear Tides in Coalescing Binary Neutron Stars* ♦ **Nevin Weinberg**, Massachusetts Institute of Technology

## April 17

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *New Things to Do with the CMB Part Deux: A Handful of (Squeezed) Bispectra* ♦ **Daan Meerburg**, Canadian Institute for Theoretical Astrophysics

## April 20

Astrophysics Informal Seminar ♦ *Weighing Galaxy Clusters with Weak Lensing in the Hyper-SuprimeCam Survey* ♦ **Elinor Medezinski**, Princeton University

## April 27

Astrophysics Informal Seminar ♦ *Resuming Infrared Effects at the BAO Scale* ♦ **Gabriele Trevisan**, New York University

## May 1

Princeton University/Institute for Advanced Study Early Universe/Cosmology Lunch Discussion ♦ *Cosmology and a Massive Graviton* ♦ **Adam Solomon**, University of Pennsylvania

## May 4

Astrophysics Informal Seminar ♦ *Two Robots Exploring the Habitable Sky: Robo-AO and Evryscope* ♦ **Nicholas Law**, The University of North Carolina at Chapel Hill

## May 11

Astrophysics Informal Seminar ♦ *Towards a Theory of Rotating Convection in Stars and Planets* ♦ **Yoram Lithwick**, Northwestern University

## May 18

Astrophysics Informal Seminar ♦ *Eccentric Companions to Two Kepler Planets: Clues to the Formation of Warm Jupiters* ♦ **Kento Masuda**, Princeton University

## May 25

Astrophysics Informal Seminar ♦ *Gamma-Ray Emission from Novae* ♦ **Jennifer Sokoloski**, Columbia University

## May 26

Astrophysics Informal Seminar ♦ *Resolving Gas and Dust in Transitional Disks: The ALMA View on Planet Formation* ♦ **Nienke van der Marel**, University of Hawai'i

## June 1

Astrophysics Informal Seminar ♦ *Implications of a Frame-Dependent Dark Energy Action* ♦ **Stephen L. Adler**, Professor Emeritus, School of Natural Sciences

## June 8

Astrophysics Informal Seminar ♦ *From Particles to Fields: Chaotic Gravitational Dynamics in Star Clusters* ♦ **Nathan Leigh**, American Museum of Natural History

## HIGH ENERGY THEORY ACTIVITIES

### September 12

High Energy Theory Seminar ♦ *Moonshine, Old and New* ♦ **Jeffrey Harvey**, The University of Chicago

## September 15–17

NatiFest: Celebrating the Science of Nathan Seiberg ♦ *Monodromy in QCD: Insights from Supersymmetric Theories with Soft Breakings* ♦ **Michael Dine**, University of California, Santa Cruz ♦ *Making Contact with the Sphere* ♦ **Zohar Komargodski**, Weizmann Institute of Science ♦ *A Taste of Flavor* ♦ **Yossi Nir**, Weizmann Institute of Science ♦ *Three Points in a Talk (to Say Nothing of the Prologue)* ♦ **Gregory Moore**, Rutgers, The State University of New Jersey; Distinguished Visiting Professor, School of Natural Sciences ♦ *Some Tools for Exploring Supersymmetric RG Flows* ♦ **Thomas Dumitrescu**, Harvard University ♦ *Aspects of 6d QFTs* ♦ **Ken Intriligator**, University of California, San Diego ♦ *Some Boundary States for Bosons* ♦ **Edward Witten**, Charles Simonyi Professor, School of Natural Sciences ♦ *A 2d Stress Tensor for 4d Gravity* ♦ **Andrew Strominger**, Harvard University ♦ *Boundaries, Interfaces, and Dualities* ♦ **Davide Gaiotto**, Perimeter Institute for Theoretical Physics ♦ *Three Roads Not (Yet) Taken* ♦ **Ofer Aharony**, Weizmann Institute of Science ♦ *Emergent Supersymmetry from a Lattice of Interacting Majorana Modes* ♦ **Ian Affleck**, The University of British Columbia ♦ *Comments on Seiberg Duality* ♦ **David Kutasov**, The University of Chicago ♦ *Some Modular Properties of Superstring Scattering Amplitudes* ♦ **Michael Green**, University of Cambridge ♦ *Gravitational Scattering Theory as a Map Between Current Algebras on the Conformal Boundary* ♦ **Tom Banks**, Rutgers, The State University of New Jersey ♦ *On the Time-Reversal Anomaly of 2+1d TQFTs* ♦ **Yuji Tachikawa**, The University of Tokyo ♦ *Views on Physics* ♦ **David Gross**, University of California, Santa Barbara ♦ *The Large D Black Hole Membrane Paradigm* ♦ **Shiraz Minwalla**, Tata Institute of Fundamental Research, Mumbai ♦ *Black Hole Degeneracies from Worldsheet Instantons* ♦ **Sameer Murthy**, King's College London ♦ *The SYK Model, AdS<sub>2</sub>, and Conformal Symmetry* ♦ **Juan Maldacena**, Carl P. Feinberg Professor, School of Natural Sciences ♦ *Nati Puts You On Shell* ♦ **Nima Arkani-Hamed**, Professor, School of Natural Sciences ♦ *Natural SUSY vs. the LHC* ♦ **David Shih**, Rutgers, The State University of New Jersey ♦ *Facing Complexity, Singularities, and Holography in a Parallel Universe: Sesame* ♦ **Eliezer Rabinovici**, The Hebrew University of Jerusalem ♦ *Black Holes and Random Matrices* ♦ **Stephen Shenker**, Stanford University

## September 19

High Energy Theory Seminar ♦ *Little String Theories and Their Compactifications* ♦ **David R. Morrison**, University of California, Santa Barbara

High Energy Theory Seminar ♦ *Recovering the Spacetime Metric from a Holographic Dual* ♦ **Gary Horowitz**, University of California, Santa Barbara

## September 21

Physics Group Meeting ♦ *Infrared Counting of Ultraviolet Operators* ♦ **Shu-Heng Shao**, Member, School of Natural Sciences

## September 22

Informal High Energy Theory Seminar ♦ *A Holographic Perspective on the Weak Gravity Conjecture* ♦ **Miguel Montero**, Universidad Autónoma de Madrid

## September 30

High Energy Theory Seminar ♦ *M-Theory and 6d SCFTs* ♦ **Kantaro Ohmori**, Member, School of Natural Sciences

## October 5

Physics Group Meeting ♦ *Holographic Complexity, Randomness, and the Butterfly Effect* ♦ **Daniel A. Roberts**, Member, School of Natural Sciences

## October 11

Informal High Energy Theory Seminar ♦ *Rethinking the Origin of Small Neutrino Masses* ♦ **Lena Funcke**, Max-Planck-Institut für Physik and Ludwig-Maximilians-Universität München

## October 14

High Energy Theory Seminar ♦ *AdS Black Hole Entropy and Gauge Theory* ♦ **Francesco Benini**, Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy; Junior Visiting Professor, School of Natural Sciences

## October 17

Workshop on Chaos, the SYK Model, and AdS<sub>2</sub> ♦ *New Results in the SYK Model* ♦ **Alexei Kitaev**, California Institute of Technology

High Energy Theory Seminar ♦ *Strange Metals, Black Holes, and Graphene* ♦ **Subir Sachdev**, Harvard University

## October 18

Workshop on Chaos, the SYK Model, and AdS<sub>2</sub> ♦ *Adding Space to the SYK Model* ♦ **Xiaoliang Qi**, Stanford University

## October 19

Workshop on Chaos, the SYK Model, and AdS<sub>2</sub> ♦ *Microscopic Model of Quantum Butterfly Effect: Out-of-Time-Order Correlators and Traveling Combustion Waves* ♦ **Lev Ioffe**, Rutgers, The State University of New Jersey

Physics Group Meeting ♦ *Entanglement Structure of Non-equilibrium Steady States* ♦ **Brian Swingle**, Stanford University

## October 24

High Energy Theory Seminar ♦ *Projective Geometry of Scattering Amplitudes* ♦ **Ellis Ye Yuan**, Member, School of Natural Sciences

## October 31

High Energy Theory Seminar ♦ *A 1d Topological Sector of 3d SCFTs from Supersymmetric Localization* ♦ **Silviu Pufu**, Princeton University

## November 4

High Energy Theory Seminar ♦ *The Ryu-Takayanagi Formula and Extremal Surfaces* ♦ **Xi Dong**, Member, School of Natural Sciences

## November 9

Physics Group Meeting ♦ *The Weak Gravity Conjecture: Variations and Applications* ♦ **Matthew Reece**, Harvard University, Junior Visiting Professor, School of Natural Sciences

## November 14

High Energy Theory Seminar ♦ *Symmetry Enriched Emergent U(1) Gauge Theories* ♦ **Senthil Todadri**, Massachusetts Institute of Technology

## November 18

High Energy Theory Seminar ♦ *Anomalies of 6d SCFTs* ♦ **Clay Cordova**, Long-term Member, School of Natural Sciences

## November 28

High Energy Theory Seminar ♦ *Correlation Functions in Superconformal Field Theories* ♦ **Jaume Gomis**, Perimeter Institute for Theoretical Physics

## November 30

Physics Group Meeting ♦ *Quantum Mechanics with Noncommutative Amplitudes* ♦ **Gregory Moore**, Rutgers, The State University of New Jersey; Distinguished Visiting Professor, School of Natural Sciences

## December 8

Informal High Energy Theory Seminar ♦ *Understanding the Landscape of N=2 Superconformal Field Theories* ♦ **Mario Martone**, Cornell University

## December 9

High Energy Theory Seminar ♦ *WIMPs, Miracles, and Coincidences* ♦ **Raffaele Tito D'Agnolo**, Member, School of Natural Sciences

## December 12

High Energy Theory Seminar ♦ *Bosonization in Two and Three Dimensions and Spin Structures* ♦ **Anton Kapustin**, California Institute of Technology

## January 9

High Energy Theory Seminar ♦ *Half-Hour Talk and Discussion on “Bubbling Geometries for AdS<sub>2</sub> × S<sup>2</sup>”* ♦ **Oleg Lunin**, University at Albany, The State University of New York

January 26

Precision Frontier Seminar ♦ *Basics of AC Signal Processing and the Fluctuation-Dissipation Theorem* ♦ **Ken Van Tilburg**, New York University; Member, School of Natural Sciences

February 1

Physics Group Meeting ♦ *The Lightcone Bootstrap and the Spectrum of the 3d Ising CFT* ♦ **David Simmons-Duffin**, Long-term Member, School of Natural Sciences

February 2

Precision Frontier Seminar ♦ *Searches for Light Scalar Particles* ♦ **Ken Van Tilburg**, New York University; Member, School of Natural Sciences

February 6

High Energy Theory Seminar ♦ *Towards a Theory of the QCD String* ♦ **Sergei Dubovsky**, New York University

February 10

Precision Frontier Seminar ♦ *Searches for Light Pseudoscalars* ♦ **Ken Van Tilburg**, New York University; Member, School of Natural Sciences

High Energy Theory Seminar ♦ *Loop*

*Amplitudes from Ambitwistor Strings* ♦ **Yvonne Geyer**, Member, School of Natural Sciences

February 15

Physics Group Meeting ♦ *Discussion of MOND and LCDM* ♦ **Matias Zaldarriaga**, Professor, School of Natural Sciences

February 22

High Energy Theory Seminar ♦ *Black Holes and Quantum Complexity* ♦ **Leonard Susskind**, Stanford University

February 24

High Energy Theory Seminar ♦ *The Second Law of Quantum Complexity* ♦ **Leonard Susskind**, Stanford University

February 27

High Energy Theory Seminar ♦ *Nonlinear Gravity from Entanglement* ♦ **Mark van Raamsdonk**, The University of British Columbia

February 28

Precision Frontier Seminar ♦ *Searches for Pseudoscalar Dark Matter Coupled to Photons* ♦ **Yoni Kahn**, Princeton University

March 10

High Energy Theory Seminar ♦ *SL(N) Chern-Simons, Cluster Algebras, and Defects* ♦ **Mauricio Romo**, Member, School of Natural Sciences

March 13

High Energy Theory Seminar ♦ *T and LST* ♦ **David Kutasov**, The University of Chicago

March 15

Physics Group Meeting ♦ *Kinematic Space and Applications* ♦ **Bartłomiej Stanislaw Czech**, Member, School of Natural Sciences

March 16

Precision Frontier Seminar ♦ *Light Vector Dark Matter: Inflationary Production and Laboratory Detection* ♦ **David Pinner**, Princeton University

March 17

High Energy Theory Seminar ♦ *BPS Graphs for Class S* ♦ **Maxime Gabella**, Member, School of Natural Sciences

March 24

High Energy Theory Seminar ♦ *Group Theory of the Crossing Equation* ♦ **Abhijit Gadde**, Member, School of Natural Sciences

March 29

Physics Group Meeting ♦ *Algebraic EE and Holography* ♦ **Jennifer Lin**, Member, School of Natural Sciences

April 3

High Energy Theory Seminar ♦ *Holographic Complexity: A Progress Report* ♦ **Rob Myers**, Perimeter Institute for Theoretical Physics

April 4

Precision Frontier Seminar ♦ *Prospects for Direct Detection of the Cosmic Neutrino Background* ♦ **Matthew Low**, Member, School of Natural Sciences

April 12

Physics Group Meeting ♦ *Why the Energy Density Is Positive* ♦ **Aron Wall**, Member, School of Natural Sciences

April 17

High Energy Theory Seminar ♦ *Six-Point String Scattering: Simulation of Horizon Infallers* ♦ **Eva Silverstein**, Stanford University

April 21

High Energy Theory Seminar ♦ *Continuous and Discrete Gauge Symmetries in F-Theory* ♦ **Mirjam Cvetič**, University of Pennsylvania

April 25

Informal High Energy Theory Seminar ♦ *Integrability of d-Dimensional Conformal Blocks* ♦ **Mikhail Isachenkov**, Weizmann Institute of Science

April 26

Physics Group Meeting ♦ *On the Operator Content of dS* ♦ **Dionysios Anninos**, Member, School of Natural Sciences

May 3

Physics Group Meeting ♦ *Thoughts on Inertia and Gravity from Entanglement in (A)dS-Spacetimes* ♦ **Erik Verlinde**, University of Amsterdam

May 5

High Energy Theory Seminar ♦ *How Much Information Can We Get from Traversable Wormholes?* ♦ **Douglas Stanford**, Long-term Member, School of Natural Sciences

May 8

High Energy Theory Seminar ♦ *Magnificent Four* ♦ **Nikita Nekrasov**, Stony Brook University, The State University of New York

May 10

Physics Group Meeting ♦ *Link Invariants and Topological Quantum Matter* ♦ **Pavel Putrov**, Member, School of Natural Sciences

May 17

Physics Group Meeting ♦ *A Few Basics of Deep Learning* ♦ **Dmitry Krotov**, Member, School of Natural Sciences

May 22

High Energy Theory Seminar ♦ *Entanglement, Replicas, and Thetas* ♦ **Sunil Mukhi**, Tata Institute for Fundamental Research, Mumbai

June 19

High Energy Theory Seminar ♦ *Space of Field Theories, UV Completeness, and Integrability* ♦ **Alexander Zamolodchikov**, Rutgers, The State University of New Jersey

July 17–28

Prospects in Theoretical Physics 2017: Particle Physics at the LHC and Beyond ♦ *Organizers and lecturers: Nima Arkani-Hamed*, Professor, School of Natural Sciences; **Nathaniel Craig**, University of California, Santa Barbara; **André de Gouvêa**, Northwestern University; **Michael Dine**, University of California, Santa Cruz; **Rouven Essig**, C. N. Yang Institute for Theoretical Physics, Stony Brook University, The State University of New York; **Peter Graham**, Stanford University; **Mariangela Lisanti**, Princeton University; **Chiara Nappi**, Princeton University; **Jim Olsen**, Princeton University; **David Spergel**, Princeton University; **Chris Tully**, Princeton University; **Liantao Wang**, The University of Chicago; **Neal Weiner**, New York University

## THE SIMONS CENTER FOR SYSTEMS BIOLOGY ACTIVITIES

September 14

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ *Functional Bow-Tie Structure of Large-Scale Metabolic Networks* ♦ **Sanjay Jain**, University of Delhi; Member, School of Natural Sciences

September 28

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ *Modularity*

and Feedback in Gene Regulatory Networks of Bacteria ♦ **Sanjay Jain**, University of Delhi; Member, School of Natural Sciences

#### October 5

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Naama Brenner**, Technion–Israel Institute of Technology

#### October 19

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Arvind Murugan**, The University of Chicago

#### November 23

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Edo Kussell**, New York University

#### December 1

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Uttam Bhat**, Boston University

#### December 21

Neuroendocrine Joint Lab Meeting ♦ **Evan Vosburgh**, Sackler Laboratory ♦ **Chris Harris**, Raymond and Beverly Sackler Foundation and Rutgers Cancer Institute of New Jersey ♦ **Steven Libutti**, Rutgers Cancer Institute of New Jersey ♦ **Ziqiang Yuan**, Rutgers Cancer Institute of New Jersey ♦ **Mijung Kwon**, Rutgers Cancer Institute of New Jersey

#### January 11

DNA Dynamics and Neurodegeneration Symposium ♦ *Genomic Integrity, Chromatin Remodeling, and Activity Dependent Gene Expression* ♦ **Li-Huei Tsai**, Picower Institute for Learning and Memory, Massachusetts Institute of Technology ♦ *Repeat Instability and Human Disease* ♦ **Christopher Pearson**, The Hospital for Sick Children ♦ *Integrated Genetic and Systems Biology Approaches to Dissect Huntington's Disease Pathogenesis* ♦ **X. William Yang**, Semel Institute for Neuroscience and Human Behavior, University of California, Los Angeles ♦ *Stress Response at the Replication Fork* ♦ **Agata Smogorzewska**, The Rockefeller University ♦ *Recurrently Breaking Genes in Neuronal Progenitors* ♦ **Fred Alt**, Howard Hughes Medical Institute, Boston Children's Hospital

#### February 1

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Daniel A. Beller**, Harvard University

#### February 15

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **John Bechhoefer**, Simon Fraser University

#### February 22

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Kunihiko Kaneko**, The University of Tokyo; Member, School of Natural Sciences

#### March 23

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ *Restriction and Modification Systems in Bacteria* ♦ **Maros Pleska**, Institute of Science and Technology Austria

#### March 31

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ **Yuichi Wakamoto**, The University of Tokyo

#### April 6

Governor's Conference on Effective Partnering in Cancer Research ♦ "New Technologies in Cancer Research" ♦ *Quantifying Non-self in Tumors* ♦ **Benjamin Greenbaum**, Icahn School of Medicine at Mount Sinai ♦ *Next-Generation Biomarkers for Precision Cancer Immunotherapy* ♦ **David Kaufman**, Merck Research Laboratories ♦ *Physical and Biological Approaches Towards Understanding Tumor/Immune Interactions* ♦ **James R. Heath**, California Institute of Technology ♦ *Advancing Drug Discovery—Translating Small and Big Data into Insight* ♦ **Gunaretnam Rajagopal**, Janssen Research & Development ♦ *Algorithms for Pathway Discovery for Precision Medicine* ♦ **Jennifer Chayes**, Microsoft Research New England and New York City ♦ *Computational and Systems Biology of Cancer: Discover, Design, Deliver* ♦ **Chris Sander**, Dana-Farber Cancer Institute

#### April 12

The Simons Center for Systems Biology Informal Talks on Abstract/Conceptual/Quantitative Aspects of Biology ♦ *Hydration Forces in Biological Tissues* ♦ **Peter Fratzl**, Max-Planck-Institut für Kolloid- und Grenzflächenforschung

#### April 28–29

Continuing Exploration of Topics for Collaborations between Computer Scientists and Oncologists ♦ *Measuring T-Cell Receptor Sequences and Their Antigens* ♦ **Drew Pardoll**, Johns Hopkins University School of Medicine, and **Alex Baras**, Johns Hopkins University School of Medicine ♦ *Aging T-Cells* ♦ **Mark M. Davis**, Stanford University School of Medicine ♦ *The Exhausted T-Cell* ♦ **Josephine Giles**, Penn Institute for Immunology,

Perelman School of Medicine, University of Pennsylvania ♦ *The Quest for Neoantigens* ♦ **Benjamin Greenbaum**, Icahn School of Medicine at Mount Sinai ♦ *Biomarkers for Immunotherapy* ♦ **David Kaufman**, Merck Research Laboratories ♦ *Long-Term Survivors of Pancreatic Cancer* ♦ **Vinod Balachandran**, Memorial Sloan-Kettering Cancer Center ♦ *Immunotherapy for Ovarian Cancers* ♦ **Alexandra Snyder**, Memorial Sloan-Kettering Cancer Center

#### May 10

Neuroendocrine Tumor Symposium ♦ *Neuroendocrine Tumor Therapy in 2017—Current Landscape and Future Prospects* ♦ **Edward M. Wolin**, Montefiore Einstein Center for Cancer Care, Albert Einstein College of Medicine ♦ *Next-Generation Sequencing in Pancreatic Neuroendocrine Tumors: Defining Differentiation and Grade Genetically* ♦ **Diane Reidy-Lagunes**, Memorial Sloan-Kettering Cancer Center ♦ *Genes Involved in Metastasis of Neuroendocrine Tumors of the Pancreas and Small Intestine* ♦ **Chris R. Harris**, Raymond and Beverly Sackler Foundation and Rutgers Cancer Institute of New Jersey ♦ *Next Steps in Cancer Immunotherapy* ♦ **Eric H. Rubin**, Merck Research Laboratories ♦ *Epigenetic Pathways as Targets in Human Cancer* ♦ **Shelley L. Berger**, University of Pennsylvania

#### June 1–2

Mathematical Methods in Cancer Evolution and Heterogeneity Workshop ♦ *On the Origins of CLL Evolution* ♦ **Dan Landau**, Weill Cornell Medicine, Cornell University ♦ *Quantifying Non-self in Tumors* ♦ **Benjamin Greenbaum**, Icahn School of Medicine at Mount Sinai ♦ *Real-Time Clonal Evolution from Diagnosis to Relapse in 100 Pediatric Acute Lymphoblastic Leukemia* ♦ **Jinghui Zhang**, St. Jude Children's Research Hospital ♦ *Decoding Epigenomic Programs Governing Tumor-Specific T-Cell Dysfunction and Therapeutic Reprogrammability* ♦ **Christina Leslie**, Memorial Sloan-Kettering Cancer Center ♦ *TRACERx: Evolution in Space and Time* ♦ **Nicholas McGranahan**, Cancer Research UK ♦ *Utility of Research Autopsies for Understanding the Evolutionary Dynamics of Cancer* ♦ **Christine A. Iacobuzio-Donahue**, Memorial Sloan-Kettering Cancer Center ♦ *Quantifying Tumor Evolution through Spatial Computational Modeling and Bayesian Statistical Inference* ♦ **Christina Curtis**, Stanford University ♦ *Measurement of Evolutionary Dynamics in Human Cancers Using Mathematical Modelling of Genomic Data* ♦ **Trevor Graham**, Barts Cancer Institute, Queen Mary, University of London ♦ *Algorithms for Inferring Evolution and Migration of Tumors* ♦ **Ben Raphael**, Princeton University ♦ *Melanoma Therapeutic Strategies That Select Against Resistance by Exploiting MYC-Driven Evolutionary Convergence* ♦ **Sayan Mukherjee**, Duke University ♦ *Steering Cancer Evolution: Harnessing Phenotypic Heterogeneity to Design Better Therapies* ♦ **Alexander**

**Anderson**, Moffitt Cancer Center ♦ *Combining Sequence and Structural Features Leads to Accurate Interpretation of Genetic Variation: Large-Scale Modeling and Classification of De Novo Human Mutations with VIPUR* ♦ **Richard Bonneau**, New York University ♦ *Topological Data Modeling* ♦ **Gunnar Carlsson**, Stanford University

## June 6

Joshua Lederberg–John von Neumann Symposium: Towards Quantitative Biology (at The Rockefeller University) ♦ *Correlated Mutations and Homologous Recombination in Bacterial Populations* ♦ **Edo Kussell**, New York University ♦ *Immune Recognition, Spandrel, and Antagonism* ♦ **Paul François**, McGill University ♦ *Neural Mechanisms of Visual Object Recognition* ♦ **Tatyana O. Sharpee**, Salk Institute for Biological Studies ♦ *Confidence, Deliberation, and Democracy* ♦ **Mariano Sigman**, Universidad Torcuato Di Tella, Argentina ♦ *Possible and Impossible Cells* ♦ **Mukund Thattai**, Tata Institute of Fundamental Research, Mumbai

## June 21–22

Convergence Scholars Meeting ♦ *Transposon Mutagenesis Identified Genes and Evolutionary Forces Driving GI Cancer* ♦ **Neal Copeland**, University of Texas MD Anderson Cancer Center ♦ *A Recellularized Human Colon Model Identifies Early-Stage Cancer Driver Genes* ♦ **Nancy Jenkins**, University of Texas MD Anderson Cancer Center ♦ *Opposing Effects of IFN $\gamma$  on Regulating Drug Response in EGFR Mutated NSCLC Cells* ♦ **Xiaoxiao Sun**, University of California, San Francisco ♦ *Characterizing the Innate Immune Response to Repeat RNAs in Cancer* ♦ **Mihir Rajurkar**, Massachusetts General Hospital, Harvard University ♦ *Quantifying Non-coding RNAs in Cancers* ♦ **Alexander Solovov**, Icahn School of Medicine at Mount Sinai ♦ *Neoantigen Discovery in Pancreatic Ductal Adenocarcinoma* ♦ **John Alec Moral**, Memorial Sloan–Kettering Cancer Center ♦ *Stromal Genetic Signatures in Breast Cancer Development with RNAseq* ♦ **Raditya Utama**, Cold Spring Harbor Laboratory ♦ *Modeling Cancer Microenvironment: From Patterns of Cancer-Associated Fibroblasts to the Switch of Immune Microenvironment* ♦ **Xuefei Li**, Rice University ♦ *Systematic Functional Characterization of Resistance to High-Order Combination Therapy in Breast Cancer* ♦ **Xiuning Le**, Beth Israel Deaconess Medical Center, Harvard University ♦ *Clonal Dynamics in Neoadjuvant and Metastatic Breast Cancer* ♦ **Junfei Zhao**, Columbia University Medical Center, Columbia University ♦ *Lessons from Translational Research in Myeloid Malignancies* ♦ **Ross Levine**, Memorial Sloan–Kettering Cancer Center ♦ *Uncovering Immune Response to Cancer Using Statistical Modeling of TCR Sequences* ♦ **Yuval Elhanati**, Princeton University ♦ *A Network Model of Signal Transduction Pathways in Breast Cancer: Drug Resistance and Combinatorial Therapies* ♦ **Jorge**

**Zanudo**, Pennsylvania State University ♦ *Maximum Entropy Analysis of the Breast Tumor Microenvironment* ♦ **Julie Wortman**, University of California, Irvine ♦ *Personalizing Cancer Treatment Using the Novel Cell-Based Functional Assay Dynamic BH3* ♦ **Joan Montero**, Dana-Farber Cancer Institute, Harvard University ♦ *Understanding Target Therapy Resistance in ER-Positive Breast Cancer* ♦ **Guotai Xu**, Memorial Sloan–Kettering Cancer Center

## School of Social Science

### September 21

School of Social Science Orientation Session

School of Social Science Welcome Party

### September 26

Social Science Seminar ♦ *Why Do We Punish? Beyond Theories of Justification* ♦ **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

### September 28

Law and the Social Sciences Seminar ♦ Organizational Meeting

### October 3

Social Science Seminar ♦ *The Ecology of Political Activism: Rights-Oriented Lawyering in China* ♦ **Sida Liu**, University of Toronto; Member, School of Social Science

### October 5

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Michel Foucault and Juridical Power” ♦ curated by **Bernard E. Harcourt**, Columbia University and École des Hautes Études en Sciences Sociales, Paris; Visiting Professor, School of Social Science

### October 10

Social Science Seminar ♦ *Precarious Hope, Migrant Legalization, and the Limits of Affect Theory* ♦ **Ayşe Parla**, Sabanci University; Member, School of Social Science

### October 11

Law and Emotions Reading Group

### October 12

Law and the Social Sciences Film Series ♦ *A Separation*, directed by Asghar Farhadi ♦ Post-screening discussion led by **Vanja Hamzić**, School of Oriental and African Studies, University of London; Member, School of Social Science, and **Amr Shalakany**, American University in Cairo; Member, School of Social Science

### October 17

Social Science Seminar ♦ *The Emperor's New Genes: Race, Science, Policy, and the Allure of Objectivity* ♦ **Ruha Benjamin**, Princeton University; Member, School of Social Science

## October 19

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Revolution, Transition, and New Legal Orders” ♦ curated by **Juan Obarrio**, Johns Hopkins University; Member, School of Social Science, **Amr Shalakany**, American University in Cairo; Member, School of Social Science, and **Linda M. G. Zerilli**, The University of Chicago; Member, School of Social Science

## October 24

Social Science Seminar ♦ *Making Up the Ex-offender* ♦ **Reuben Jonathan Miller**, University of Michigan; Member, School of Social Science

## October 31

Social Science Seminar ♦ *The Counterrevolution* ♦ **Bernard E. Harcourt**, Columbia University and École des Hautes Études en Sciences Sociales, Paris; Visiting Professor, School of Social Science

## November 2

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “The Ordinary Life of Law” ♦ curated by **Céline Bessière**, Université Paris-Dauphine; Member, School of Social Science, **Andrew Dilts**, Loyola Marymount University; Member, School of Social Science, and **Sida Liu**, University of Toronto; Member, School of Social Science

Reflection on Critique ♦ Planning Meeting

## November 7

Social Science Seminar ♦ *Insurgent Universality: Journeying on the Roads Not Taken* ♦ **Massimiliano Tomba**, Università degli Studi di Padova; Member, School of Social Science

Reflection on Critique

## November 14

Social Science Seminar ♦ *Towards a New Theory of Torture* ♦ **Nick Cheesman**, The Australian National University; Member, School of Social Science

## November 15

Law and the Social Sciences Film Series ♦ *Courthouse on the Horseback*, directed by Jie Liu ♦ Post-screening discussion led by **Teng Biao**, Visitor, School of Social Science, and **Sida Liu**, University of Toronto; Member, School of Social Science

## November 16

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “After the Fact: Reflection on 11/9/16” ♦ curated by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, and **Bernard E.**

**Harcourt**, Columbia University and École des Hautes Études en Sciences Sociales, Paris; Visiting Professor, School of Social Science

#### November 21

Social Science Seminar ♦ *Carceral Human Rights* ♦ **Karen Engle**, The University of Texas at Austin; Member, School of Social Science

#### November 28

Social Science Seminar ♦ *Show Time: Race-Making through Violent Display* ♦ **Lee Ann Fujii**, University of Toronto; Member, School of Social Science

Reflection on Critique

#### November 30

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Contemporary Critical Approaches to the Law” ♦ curated by **Bernard E. Harcourt**, Columbia University and École des Hautes Études en Sciences Sociales, Paris; Visiting Professor, School of Social Science, and **Karen Engle**, The University of Texas at Austin; Member, School of Social Science

#### December 5

Social Science Seminar ♦ *Abolitionist Killjoys and the Social Life of Social Death* ♦ **Andrew Dilts**, Loyola Marymount University; Member, School of Social Science

#### December 7

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Law and Neoliberalism” ♦ curated by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, **Lori A. Allen**, School of Oriental and African Studies, University of London; Member, School of Social Science, and **Jonathan Morduch**, New York University; Member, School of Social Science

Law and the Social Sciences Film Series ♦ *13th*, directed by Ava DuVernay ♦ Post-screening discussion led by **Bernard E. Harcourt**, Columbia University and École des Hautes Études en Sciences Sociales, Paris; Visiting Professor, School of Social Science, and **Reuben Jonathan Miller**, University of Michigan; Member, School of Social Science

#### December 8

Reflection on Critique ♦ **Wendy Brown**, University of California, Berkeley

#### December 12

Social Science Seminar ♦ *Humanitarian Design and the Scale of the Future* ♦ **Peter Redfield**, The University of North Carolina at Chapel Hill; Member, School of Social Science

#### January 23

Social Science Seminar ♦ *Adam and Juan Patricio: Dis/Possessed* ♦ **David Kazanjian**, University of Pennsylvania; Member, School of Social Science

#### January 25

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Law and Disobedience” ♦ curated by **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science, and **Bernard E. Harcourt**, Columbia University and École des Hautes Études en Sciences Sociales, Paris; Visiting Professor, School of Social Science

Law and the Social Sciences Film Series ♦ *Into the Abyss*, directed by Werner Herzog ♦ Post-screening discussion led by **Andrew Dilts**, Loyola Marymount University; Member, School of Social Science, and **Allegra M. McLeod**, Georgetown University; Member, School of Social Science

#### January 30

Social Science Seminar ♦ *Seeking Asylum, Finding God: Asylum-Seeking on Religious Grounds and the Politics of Deservingness in the Era of “Probationary Citizenship”* ♦ **Jaeun Kim**, University of Michigan; Member, School of Social Science

Reflection on Critique

#### February 6

Social Science Seminar ♦ *The Honest But Unfortunate Debtor: Social Class, Statebuilding, and U.S. Law* ♦ **Emily Zackin**, Johns Hopkins University; Member, School of Social Science

#### February 8

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “The Archives and Black Lives” ♦ curated by **David Kazanjian**, University of Pennsylvania; Member, School of Social Science, and **Reuben Jonathan Miller**, University of Michigan; Member, School of Social Science

#### February 13

Social Science Seminar ♦ *Emancipation Binds* ♦ **Fadi A. Bardawil**, The University of North Carolina at Chapel Hill; Member, School of Social Science

#### February 22

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Alegality or Infrapolitics?” ♦ curated by **Nick Cheesman**, The Australian National University; Member, School of Social Science, and **Vanja Hamzić**, School of Oriental and African Studies, University of London; Member, School of Social Science

Law and the Social Sciences Film Series ♦ *Abluka*, directed by Emin Alper ♦ Post-screening discussion led by **Ayşe Parla**, Sabanci University; Member, School of Social Science

#### February 27

Social Science Seminar ♦ *Markets and Social Action* ♦ **Jonathan Morduch**, New York University; Member, School of Social Science

#### March 6

Social Science Seminar ♦ *On Cultural Relativism: Forced Marriage and “Honor” Killings in London, UK* ♦ **Lalae Ameeriar**, University of California, Santa Barbara; Member, School of Social Science

#### March 8

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Law and Violence” ♦ curated by **Massimiliano Tomba**, Università degli Studi di Padova; Member, School of Social Science, and **Fadi A. Bardawil**, The University of North Carolina at Chapel Hill; Member, School of Social Science

#### March 13

Social Science Seminar ♦ *Is Disease Part of the Job? Economic and Moral Restructuring in a French Factory* ♦ **Pascal Marichalar**, Institut de Recherche Interdisciplinaire sur les Enjeux Sociaux, École des Hautes Études en Sciences Sociales, Paris; Visitor, School of Social Science

#### March 20

Social Science Seminar ♦ *Doing Wealth Inequality in the Family* ♦ **Céline Bessière**, Université Paris-Dauphine; Member, School of Social Science

#### March 22

Law and the Social Sciences Film Series ♦ *Hunger*, directed by Steve McQueen ♦ Post-screening discussion led by **Banu Bargu**, The New School

#### March 27

Social Science Seminar ♦ *Why Do We Investigate? The Political Epistemology of International Commissions of Inquiry* ♦ **Lori A. Allen**, School of Oriental and African Studies, University of London; Member, School of Social Science

#### April 3

Social Science Seminar ♦ *Statistics in the Courtroom: Do They Threaten the Fair Trial?* ♦ **Marcello Di Bello**, Lehman College, The City University of New York; Member, School of Social Science

#### April 5

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Islamic Law” ♦ curated in collaboration with **Fadi A.**

**Bardawil**, The University of North Carolina at Chapel Hill; Member, School of Social Science

Post-Seminar Guest Speaker ♦ *Islamic Governance, Shari'a Interpretation* ♦ **Brinkley M. Messick**, Columbia University

**April 17**

Social Science Seminar ♦ *Imagining Abolition* ♦ **Allegra M. McLeod**, Georgetown University; Member, School of Social Science

**April 19**

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “The Question of Human Rights” ♦ curated by **Lori A. Allen**, School of Oriental and African Studies, University of London; Member, School of Social Science, **Teng Biao**, Visitor, School of Social Science, **Karen Engle**, The University of Texas at Austin; Member, School of Social Science, and **Sida Liu**, University of Toronto; Member, School of Social Science

**April 24**

Social Science Seminar ♦ *Law and Behold* ♦ **Juan Obarrio**, Johns Hopkins University; Member, School of Social Science

**May 1**

Social Science Seminar ♦ *Critique and the Realistic Spirit* ♦ **Linda M. G. Zerilli**, The University of Chicago; Member, School of Social Science

**May 3**

Law and the Social Sciences Seminar ♦ Discussion of readings on the theme “Comparative Criminology” ♦ curated in collaboration with **Didier Fassin**, James D. Wolfensohn Professor, School of Social Science

Post-Seminar Guest Speaker ♦ *The Social Roots of America's Penal State* ♦ **David Garland**, New York University

**May 8**

Social Science Seminar ♦ *Interruption* ♦ **Vanja Hamzić**, School of Oriental and African Studies, University of London; Member, School of Social Science

**May 12**

Public Policy Lecture ♦ *Reflections on Inequality and Capital in the 21st Century* ♦ **Thomas Piketty**, École des Hautes Études en Sciences Sociales and École d'Économie de Paris

**May 17**

Law and the Social Sciences Seminar ♦ *Reflection on the Year's Discussions and Conversations*

**May 18–19**

Borders and Boundaries Seminar Workshop

**June 25–30**

Summer Program in Social Science (Uppsala, Sweden)

## Director's Office Events

**September 19**

Member Welcome Reception

**September 30**

Edward T. Cone Concert Series and Talk ♦ **Choir of Trinity Wall Street**

**October 1**

Edward T. Cone Concert Series ♦ **Choir of Trinity Wall Street**

**October 7**

Public Lectures ♦ *Algorand: The Public Ledger* ♦ **Silvio Micali**, Massachusetts Institute of Technology ♦ *Quantum Physics and the Computational Lens* ♦ **Dorit Aharonov**, The Hebrew University of Jerusalem

AMIAS Family Barbeque

**October 14**

AMIAS Public Lectures ♦ *The Left Side of History: World War II and Re-emergent Nationalisms in Contemporary Eastern Europe* ♦ **Kristen Ghodsee**, Bowdoin College; President of the Association of Members of the Institute for Advanced Study ♦ *Nessun Dorma: From Night Stories to a History of the Night in the Greek World* ♦ **Angelos Chaniotis**, Professor, School of Historical Studies

**October 15**

Science Talk for Families ♦ *The Magic of Light and Color* ♦ **Robbert Dijkgraaf**, Director and Leon Levy Professor

**October 19**

Speaker Series on Diversity Lecture ♦ *Cultures of Brilliance and Academic Gender Gaps* ♦ **Sarah-Jane Leslie**, Princeton University

**October 21**

Friends Lunch with a Member ♦ *Marianne's Daughters: Being a Woman in Politics in France* ♦ **Anne-Claire Defossez**, Visitor, School of Social Science

**October 23**

Princeton Symphony Orchestra Concert ♦ **PUBLIQuartet**

**October 28**

Public Lecture ♦ *Contesting American Values* ♦ **Jonathan Israel**, Professor Emeritus, School of Historical Studies

**November 4**

Friends Lunch with a Member ♦ *Cosmic Microwave Background: A Cosmologist's Discovery Tools* ♦ **Vera Gluscevic**, Member, School of Natural Sciences

**November 9**

APS-EPS Award Ceremony and Public Lecture ♦ *The Institute for Advanced Study: The First 100 Years* ♦ **George Dyson**, Science and Technology Historian

**November 11**

Friends Talk ♦ *Bartolomeo Scappi's Opera: The First Illustrated Cookbook* ♦ **Deborah L. Krohn**, Bard Graduate Center

**November 16**

Public Lecture ♦ *Claude E. Shannon* ♦ **Sergio Verdú**, Princeton University

**November 18**

Friends Lunch with a Member ♦ *The Mysterious Mr. Harriot* ♦ **Robert Goulding**, University of Notre Dame; Member, School of Historical Studies

S. T. Lee Public Lecture ♦ *Philologists as Rogues?* ♦ **Benjamin Elman**, Princeton University

Edward T. Cone Concert Series and Talk ♦ **David Jalbert**

**November 19**

Edward T. Cone Concert Series ♦ **David Jalbert**

**December 2**

Friends Lunch with a Member ♦ *Scientific Storytelling for the New Yorker* ♦ **Siobhan Roberts**, IAS Director's Visitor

World Disorder Lecture Series ♦ *Lawless Economy? Putin's Russia and the Imperfect Market* ♦ **Bill Browder**, Hermitage Capital Management

**December 4**

Princeton Symphony Orchestra Concert ♦ **Singularity Quartet**

**December 19**

Institute Community Holiday Party

**January 18**

Friends Dessert with a Member ♦ *Precarious Hope: Migrants, Law and Relative Privilege in Turkey* ♦ **Ayşe Parla**, Sabanci University; Member, School of Social Science

**February 3**

Friends Talk ♦ *The Pattermmakers* ♦ **David Lang**, Artist-in-Residence

**February 10**

Friends Lunch with a Member ♦ *Prisoner Reentry as a Social Institution and the Making Up of the Ex-Offender* ♦ **Reuben Jonathan Miller**, University of Michigan; Member, School of Social Science

Edward T. Cone Concert Series and Talk ♦ **Gamelan Galak Tika**

February 11

Edward T. Cone Concert Series ♦ **Gamelan Galak Tika**

February 25

Midwinter Party for Faculty, Members, and Staff

February 28

Public Lecture ♦ *Ernst Kantorowicz: Institute Events and Some Unpublished Writings of a Towering Twentieth-Century Intellectual* ♦ **Robert E. Lerner**, Northwestern University

March 1

World Disorder Lecture Series ♦ *Latin America: Walls or Bridges?* ♦ **Jeffrey Davidow**, Former U.S. Ambassador to Mexico, Venezuela, and Zambia

March 3

Friends Lunch with a Member ♦ *Mathematics and Music: Vibrating Strings and Overtones* ♦ **Ian Jauslin**, Member, School of Mathematics

Edward T. Cone Concert Series and Talk ♦ **Sō Percussion**

March 4

Edward T. Cone Concert Series ♦ **Sō Percussion**

March 8

Public Lecture ♦ *Donald Trump, Angela Merkel, and China: The Dawning of a New Global Order?* ♦ **Klaus Larres**, The University of North Carolina, Chapel Hill; Member, School of Historical Studies

March 10

Friends Talk ♦ *Buddhist Temple Food and Globalization in South Korea* ♦ **Seungsook Moon**, Vassar College

March 12

Princeton Symphony Orchestra Concert ♦ **Jerry Bryant & Friends**

March 13

Public Lecture ♦ *The Usefulness of Useless Knowledge* ♦ Discussion Panel: **Robbert Dijkgraaf**, Director and Leon Levy Professor; **Peter Dougherty**, Princeton University Press; **Vartan Gregorian**, Carnegie Corporation; IAS Trustee Emeritus; and **Shirley Tilghman**, Princeton University; IAS Trustee

March 29

Friends Talk ♦ *What a (Modern) Monk Does: Digitally Preserving Endangered Manuscripts in Threatened Communities* ♦ **Columba Stewart**, St. John's University; Member, School of Historical Studies

April 19

Albert O. Hirschman Prize Ceremony and Program

April 20

Speaker Series on Diversity Lecture ♦ *Gender Bias in Science: Where It Is and Where It Isn't* ♦ **Shulamit Kahn**, Boston University

April 28

AMIAS Public Lecture ♦ *How to Handle a Mummy: A Burial Ritual from Greco-Roman Egypt* ♦ **Jacco Dieleman**, University of California, Los Angeles

May 5

Public Lecture ♦ *Matisse's Scale: What's with the Bamboo Stick?* ♦ **Yve-Alain Bois**, Professor, School of Historical Studies

May 12

Public Policy Lecture ♦ *Reflections on Inequality and Capital in the 21st Century* ♦ **Thomas Piketty**, École des Hautes Études en Sciences Sociales and École d'Économie de Paris

May 19

Friends Lunch with a Member ♦ *The "Works of the Old Men" in Arabia: Discovering a Prehistoric Landscape from the Air . . . and Space* ♦ **David Kennedy**, University of Western Australia; Visitor, School of Historical Studies

May 24

Public Lecture ♦ *Alternative Careers of Mathematicians* ♦ Discussion Panel: **Sarah Ellison**, Massachusetts Institute of Technology; **Margaret Holen**, Goldman Sachs; **Linda Ness**, Applied Communication Sciences

May 31

Institute Talk ♦ *American Foreign Policy in the Age of Trump* ♦ **Jonathan Finer**, Princeton University and Harvard University; IAS Director's Visitor

June 7

Friends Annual Meeting and Picnic

June 9

Staff Picnic