

PiTP Program 2023

All lectures in Wolfensohn Hall unless noted otherwise

Week #1 - July 10 – 14

(updated 7/21/23)

Time:	Monday, July 10th	Time:	Tuesday, July 11th	Time:	Wednesday, July 12th	Thursday, July 13th	Friday, July 14th
8:45 - 9:30 am	Breakfast/Late Registration Simons Hall	8:30 – 9:30 am	Breakfast Simons Hall		Breakfast Simons Hall	Breakfast Simons Hall	Breakfast Simons Hall
9:30 - 9:45 am	Welcome and Introduction Wolfensohn Hall						
9:45 – 11:00 am	“The Power of Symmetry” Nathan Seiberg	9:30 – 10:45 am	“Lattice Gauge Theory and Confinement - an Introduction” Michael Teper		“Adiabatic Continuity, Compactification, and Confinement” Mithat Unsal	“Machine Learning and Theory Calculations” Phiala Shanahan	“Tensor Networks for Lattice Models” Grigory Tarnopolskiy
11:00 – 11:30 am	Coffee Break Simons Hall	10:45 - 11:30 am	Coffee Break Simons Hall		Coffee Break Simons Hall	Coffee Break Simons Hall	Coffee Break Simons Hall
11:30 am – 12:45 pm	“Lattice Gauge Theory and Confinement - an Introduction” Michael Teper	11:30am - 12:45 pm	“Lattice Field Theories with Fermions — Part 1” Phiala Shanahan		“Lattice Field Theories with Fermions — Part 2” Phiala Shanahan	“The Power of Symmetry” Nathan Seiberg	“The Schrodinger Representation and 3d Gauge Theories” V. Parameswaran Nair
1:00 – 2:00 pm	Lunch Simons Hall	1:00 - 2:00 pm	Lunch Simons Hall	1:00 – 2:15 pm	Lunch Simons Hall	Lunch Simons Hall	Lunch Simons Hall
2:00 – 3:15 pm	“Adiabatic Continuity, Compactification, and Confinement” Mithat Unsal	2:00 - 3:15 pm	“Adiabatic Continuity, Compactification, and Confinement” Mithat Unsal	2:15 – 3:30 pm	“Lattice Gauge Theory and Confinement - an Introduction” Michael Teper	“The Schrodinger Representation and 3d Gauge Theories” V. Parameswaran Nair	“The Power of Symmetry” Nathan Seiberg
3:15 – 3:45 pm	Afternoon Tea Simons Hall	3:15 - 3:45 pm	Afternoon Tea Simons Hall	3:30 – 4:00 pm	Afternoon Tea Simons Hall	Afternoon Tea Simons Hall	Afternoon Tea Simons Hall
3:45 – 5:00 pm	“Fifty Years of Quantum Chromodynamics (The Theory of The Strong Nuclear Force)” David Gross	3:45 - 5:00 pm	“Some Milestones in the Study of Confinement” Edward Witten	4:00 – 5:15 pm	Tutorial Bloomberg Lecture Hall	Participant Talks	Tutorial Bloomberg Lecture Hall
5:30 – 7:00 pm	Welcome Dinner Simons Hall	5:30 - 7:00 pm	Dinner Simons Hall	5:30 – 7:00 pm	Dinner Simons Hall	Dinner Simons Hall	Dinner Simons Hall
		7:00 – 8:00 pm	Tutorial Bloomberg Lecture Hall				

PiTP Program 2023

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Week #2 - July 17- 21

(updated 7/21/23)

Time:	Monday, July 17th	Tuesday, July 18th	Wednesday, July 19th	Thursday, July 20th	Friday, July 21st
8:30 - 9:30 am	Breakfast Simons Hall	Breakfast Simons Hall	Breakfast Simons Hall	Breakfast Simons Hall	Breakfast Simons Hall
9:30 – 10:45 am	"Tensor Networks for Lattice Models" Grigory Tarnopolskiy	"Gauge Theories at Strong Coupling and the Gauge/Gravity Duality" Silviu Pufu	"Exact Results in Supersymmetry: Why Supersymmetric Theories Can Achieve what Other Quantum Field Theories Cannot" Mikhail Shifman	"Confining Strings" Sergei Dubovsky	"S-Matrix Bootstrap for Confining Gauge Theories" Joao Penedones
10:45 - 11:30 am	Coffee Break Simons Hall	Coffee Break Simons Hall	Coffee Break Simons Hall	Coffee Break Simons Hall	Coffee Break Simons Hall
11:30 am - 12:45 pm	"Gauge Theories at Strong Coupling and the Gauge/Gravity Duality" Silviu Pufu	"Confining Strings" Sergei Dubovsky	"Infrared Dynamics of Gauge Theories" Jaume Gomis	"Gauge Theories at Strong Coupling and the Gauge/Gravity Duality" Silviu Pufu	"Exact Results in Supersymmetry: Why Supersymmetric Theories Can Achieve what Other Quantum Field Theories Cannot" Mikhail Shifman
1:00 - 2:15 pm	Lunch Simons Hall	Lunch Simons Hall	Lunch Simons Hall	Lunch Simons Hall	Program Ends with Lunch Simons Hall
2:15 - 3:30 pm	"Infrared Dynamics of Gauge Theories" Jaume Gomis	"Infrared Dynamics of Gauge Theories" Jaume Gomis	"S-Matrix Bootstrap for Confining Gauge Theories" Joao Penedones	"Exact Results in Supersymmetry: Why Supersymmetric Theories Can Achieve what Other Quantum Field Theories Cannot" Mikhail Shifman	
3:30 – 4:00 pm	Afternoon Tea Simons Hall	Afternoon Tea Simons Hall	Afternoon Tea Simons Hall	Afternoon Tea Simons Hall	
4:00 - 5:15 pm	"Confinement from Conifold" Igor Klebanov	"S-Matrix Bootstrap for Confining Gauge Theories" Joao Penedones	"Confining Strings" Sergei Dubovsky	Participant Talks	
5:30 - 7:00 pm	Dinner Simons Hall	Dinner (ends at 6:30pm) Simons Hall	Pizza/Pool Party IAS Director's Home 97 Olden Lane	Dinner Simons Hall	
		Tutorial (6:30-7:30pm) Bloomberg Hall		Tutorial (begins at 7:00pm) Bloomberg Hall	
	Poster Session (begins at 7:00pm) Rubenstein Commons Lobby	Poster Session (begins at 7:30pm) Rubenstein Commons Lobby			