

שבוע מחקר בפיזיקה

10-14/09/2023

All the activities take place in **Lidow Complex Room 620**, other than those noted differently.

Sunday, September 10, 2023

9:00 - 9:30	Registration	
9:30 - 10:00	Efrat Sabach	Research @ Technion Physics Department (Technion Physics Research booklet)
10:00 - 10:15	Adi Nusser	Opening Remarks
10:15 - 11:15	Adi Nusser	Challenges in Cosmology
11:15 - 11:30	Break	
11:30 - 12:30	Kinneret Keren	The Physics of Morphogenesis How does the shape of a living animal develop? How are mechanics and biological signals integrated?
12:30 - 13:00	Ram Adar	Soft active matter: Physics of living systems
13:00 - 13:30	Kinneret Keren	Lab 411 visit
13:30 - 14:30	Lunch	
14:30 - 16:00	Projects	
16:00 - 16:30	Coffee Break @ hBar cafe	
16:30 - 18:00	Projects	
18:00 - 21:00	Dinner	
21:00	Dorms	

Monday, September 11, 2023

8:30 - 9:00	Breakfast	
9:00 - 10:00	Anna Keselman	Emergent phenomena in quantum many-body systems
10:00 - 10:15	Break	
10:15 - 11:15	Ben Ohayon	Exciting Exotic Atoms A brief review of the field of <i>exotic atoms</i> , focusing mostly on muonic atoms - where all the electrons in an atom have been replaced by a single muon. The study of these systems combines methods from atomic, nuclear and particle physics, creating a fascinating playing field
11:15 - 11:30	Break	
11:30 - 12:30	Shay Hacohen-Gourgy	Quantum computing with superconducting qubits
12:30 - 13:00	Gourgy	Lab 382 Visit
13:00 - 14:00	Lunch	
14:00 - 16:00	Projects	
16:00 - 16:30	Coffee Break @ hBar cafe	
16:30 - 18:00	Projects	
18:00 - 21:00	Dinner + PhysiQuiz	333

Tuesday, September 12, 2023

8:30 - 9:00	Breakfast	
9:00 - 10:00	Yael Shadmi	Things we don't know about the Higgs & what's cooler than Feynman diagrams
10:00 - 10:15	Break	
10:15 - 11:15	Shmuel Bialy	How do stars shape interstellar gas?
11:15 - 11:45	Break	
11:30 - 12:30	Yakov Krasik	A few recent discovers in plasma Physics and Pulsed Power laboratory
12:30 - 13:00		Lab 385/6 Visit
13:00 - 13:15	Group Photo	
13:15 - 14:30	Lunch	
14:30 - 16:00	Projects	
16:00 - 16:30	Coffee Break @ hBar cafe	
16:30 - 18:30	Projects	
18:30 - 20:00	Research Week Dinner @ hBar cafe	

Wednesday, September 13, 2023

8:30 - 9:00	Breakfast	
9:00 - 10:00	Ilya Svetlizky	How do crystals flow
10:00 - 10:15	Break	
10:15 - 11:15	Oren Bergman	What does string theory teach us about quantum field theory?
11:15 - 11:40	Break	
11:40 - 12:30	Michael Kruger (*)	Attosecond quantum physics – watching electrons as they move
12:30 - 13:00		Lab SSI-222 visit
13:00 - 13:45	Rosh Ha'Shana Toast	
13:45 - 14:30	Daniel Podolsky – Information Physics Graduate Studies @ Technion	
14:30 - 16:30	Projects	
16:30 - 17:00	Coffee Break @ 620	
17:00 - 18:30	Projects - Independent work on presentations	
18:30 - 19:00	Dinner	
19:00 - 21:00	Workshop + Independent work on presentations	

(*) Lecture will take place at the Solid State Institute Auditorium

Thursday, September 14, 2023

7:45 - 8:15	Dorms	
8:30 - 9:00	Breakfast	
9:00 - 10:00	Eric Akkermans	Symmetry and Topology in Physics
10:00 - 10:15	Break	
10:15 - 11:15	Amit Kanigel	Measuring the Electronic Band structure and Fermi Surface using Angle Resolved Photoemission Spectroscopy (ARPES)
11:15 - 11:45		Lab 508 visit
11:45 - 13:30	Projects - Independent work on presentations	
13:30 - 14:30	Lunch	
14:30 - 17:00	Projects Presentations	
17:00 - 17:15	Closing Remarks	