

שבוע מחקר בפיזיקה

01 - 05 / 08 / 2021

שבוע חשיפה לתואר שני לסטודנטים מצטיינים בתואר הראשון

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

Technion Physics Research booklet is available [here](#).

Sunday, August 1st 2021

9:00 - 9:30	Registration	
9:30 - 9:45	Ehud Behar	<i>Opening Remarks</i>
9:45 - 11:00	Adi Nusser	<i>The curious chronicles of the Hubble constant</i>
11:00 - 11:15	Break	
11:15 - 11:30	Efrat Sabach	<i>Research @ Technion Physics Department</i>
11:30 - 12:00	Ehud Behar	
12:00 - 12:45	Lunch (620)	
12:45 - 14:00	Technion Visitors Center	<i>(David and Janet Polak Visitors Center building)</i>
14:00 - 15:30	Projects	
15:30 - 16:00	Coffee Break hbar	
16:00 - 18:00	Projects	<i>(17:00-18:00 independent work)</i>
18:00 - 19:00	Dorms	
19:30 - 21:00	Dinner	

Monday, August 2nd 2021

8:30 - 9:00	Breakfast	
9:00 - 10:00	Amos Yarom	<i>Theoretical aspects of black holes</i>
10:00 - 10:15	Break	
10:15 - 11:15	Enrique Kajomovitz	<i>Can a small experiment point us to the solution to Dark Matter and the Muon g-2?</i>
11:15 - 11:30	Break	
11:30 - 12:30	Kinneret Keren	<i>The Physics of Morphogenesis</i>
12:30 - 13:00		<i>Lab Visit</i>
13:00 - 14:00	Lunch (Civil Engineering)	
14:00 - 15:30	Projects	
15:30 - 16:00	Coffee Break @ hbar caffe	
16:00 - 18:00	Projects	<i>(17:00-18:00 independent work)</i>
18:00 - 18:45	Dinner	
18:45 - 19:30	Noam Soker	<i>Astronomical introduction</i>
19:50 - 21:00	Astronomical Observation*	

* The Astronomical Observation will take place at Carmel Mountain on road 672. Transportation will depart from the entrance of Lidow building at 19:40.

Tuesday, August 3rd 2021

8:30 - 9:00	Breakfast	
9:00 - 10:00	Anna Frishman	<i>Turbulence as the statistical mechanics of pipes</i>
10:00 - 10:15	Break	
10:15 - 11:15	Itai Arad	<i>Tensor Networks: the natural language of many-body quantum physics</i>
11:15 - 11:30	Break	
11:30 - 12:30	Yakov Krasik	<i>Research of plasma at extreme conditions and high-power microwaves non-linear interaction with plasma</i>
12:30 - 13:00		<i>Lab Visit</i>
13:00 - 13:45	Lunch (620)	
13:45 - 14:00	Information - Technion Graduate School	
14:00 - 15:30	Projects	
15:30 - 16:00	Coffee Break @ hbar caffe	
16:00 - 18:00	Projects	<i>(17:00-18:00 independent work)</i>
19:00 - 21:00	Dinner*	

* Dinner will take place at זסטײ טכניון. Departure from the entrance of Lidow building at 18:15.

Wednesday, August 4th 2021

8:30 - 9:00	Breakfast	
9:00 - 10:00	Ehud Behar	<i>Cosmic Explosions and Gravitational Waves</i>
10:00 - 10:15	Break	
10:15 - 11:15	Yoav Sagi*	<i>Quantum computation and simulation with ultracold neutral atoms</i>
11:15 - 11:30	Break	
11:30 - 12:30	Moti Segev*	<i>Topological Photonics</i>
12:30 - 13:00		<i>Lab Visit (Sagi + Segev)</i>
13:00 - 14:00	Lunch (Civil Engineering)	
14:00 - 15:30	Projects	
15:30 - 16:00	Coffee Break @ hbar caffe	
16:00 - 18:00	Projects	<i>(17:00-18:00 independent work – presentations)</i>
19:00 - 21:00	Dinner*	

* Lectures are held at the Solid State Institute Auditorium

* Dinner will take place at חומס בר חיפה

Transportation will depart from the entrance of Lidow building at 18:30.

Thursday, August 5th 2021

7:45 - 8:15	Dorms	
8:30 - 9:00	Breakfast + paperwork	
9:00 - 10:00	Anna Keselman	<i>Emergent phenomena in many-body quantum systems</i>
10:00 - 10:15	Break	
10:15 - 11:15	Noa Zilberman	<i>What Happens Inside a Black Hole?</i>
11:15 - 11:30	Break	
11:30 - 12:30	Amit Keren	<i>Can a single atomic layer superconduct?</i>
12:30 - 13:00		<i>Lab Visit</i>
13:00 - 13:15	Group Photo	<i>(Lidow entrance)</i>
13:15 - 14:00	Lunch (620)	
14:00 - 15:00	Projects	<i>Working on presentations</i>
15:00 - 15:15	Coffee Break	
15:15 - 17:15	Projects Presentations	
17:15 - 18:30	Closing Remarks	