

February 28th, Racah Institute of Physics, Jerusalem

High Energy Astrophysics Workshop

Keynote Speaker:

Felix Aharonian, MPIK Heidelberg & DIAS, Dublin

Organizers: Tsvi Piran tsvi.piran@mail.huji.ac.il
Noemie Globus noemie.globus@mail.huji.ac.il
Orna Kessler orna.kessler@mail.huji.ac.il

Location: Israel Institute for Advanced Studies, Edmond J. Safra, Givat Ram Campus

Program

09:30 - 09:55 Gathering and coffee

09:55 - 10:00 Michal Linial: Greetings

10:00 - 10:35 David Eichler: Great Expectations

10:35 - 11:35 Felix Aharonian: Scientific objectives of high energy gamma-ray astronomy

Break: 15 min

11:50 - 12:25 Ehud Nakar: Interaction of relativistic jets with their surrounding media in GRBs

12:25 - 13:00 Eli Waxman: AMS positrons: Dark matter or cosmic-ray collisions ?

Lunch: 1h15

14:15 - 14:50 Tsvi Piran: From Cosmic-Rays to Gamma-Rays

14:50 - 15:25 Jonathan Granot: Lessons from the First Magnetar Wind Nebula

15:25 - 15:40 Ramandeep Gill: On the Origin of the GeV/TeV emission from HESS J1834-087

15:40 - 16:15 Uri Keshet/Ilya Gurwich: Fermi bubbles - new results

Break: 15min

16:30 - 17:05 Omer Bromberg: An overview of relativistic astrophysical jets and open questions in the field

17:05 - 17:40 Doron Kushnir: Spin-based constraints on the progenitors of the LIGO events

17:40 - 17:55 Daniel Kagan: The effect of cooling on particle trajectories and acceleration in relativistic magnetic reconnection

17:55 - 18:10 Kenny Chun-Yu Ng: High-Energy Astrophysics of the Sun

18:10 - 18:25 Reetanjali Moharana: Angular correlation between IceCube high-energy starting events and starburst sources

18:25 - 18:40 Emanuele Sobachi: A model for periodic blazars