

The cosmos at high energies: exploring extreme physics through novel instrumentation

Lecture Hall, Kavli IPMU, Kashiwa, Japan

WORKSHOP PROGRAM

Wednesday Oct. 16

09:30–10:00 **Registration**

10:00–10:10 Greg Madejski Welcome

10:10–10:50 Shiro Ikeda Data science and astronomy: how it worked for blackhole shadow imaging

10:50–11:10 **Coffee time & Poster viewing**

11:10–11:50 Lindsay Glesener Astrophysics on our nearest star: the high-energy Sun

11:50–13:40 **Lunch**

13:40–14:20 Olivier Limousin Forthcoming challenges on hard X-ray instrumentation for space observatories in the 2050s - our plan to lift the locks

14:20–15:00 Paolo Coppi Closing the energy gap: the science case for an improved MeV gamma-ray detector

15:00–15:30 **Kavli IPMU Tea Time at 3F**

15:30–16:10 Tadayuki Takahashi The cosmos at high energies: exploring extreme physics through novel instrumentation

Thursday Oct. 17

09:30–10:10 Greg Madejski Astrophysics at the highest energies: relativistic jets in active galaxies

10:10–10:50 Samar Safi-Harb Neutron stars as drivers for interdisciplinary connections, new X-ray missions and multi-messenger astrophysics

10:50–11:10 **Coffee time & Poster viewing**

11:10–11:50 Toshiyuki Azuma Precision spectroscopy and dynamics of atom/molecules related with astrophysics

11:50–13:30 **Photo & Lunch**

13:30–14:10 Georgia Karagiorgi Viewing the cosmos with LArTPC's

14:10– **1min poster presentation by students**

–15:10 **Coffee time & Poster session**

15:10–15:50 Tomonori Totani Fast radio bursts, neutron star mergers, supernovae, ... and the cosmological constant

15:50–16:30 Satoshi Miyazaki Subaru wide field optical survey

18:00– **Banquet @AGORA**

Friday Oct. 18

09:30–10:10 Chris Done The broadband continuum of accreting black holes.

10:10–10:50 Dmitry Khangulyan Astrophysics of galactic sources: extreme processes seen with high-energy instruments

10:50–11:10 **Coffee time & Poster viewing**

11:10–11:50 Aurora Simionescu The future of X-ray astrophysics: tomographic observations of the cosmic web into the 2050s

11:50–12:20 John Silverman New insights on linking massive black holes to galaxies

12:20–14:00 **Lunch**

14:00–15:00 Roger Blandford Electromagnetic jets and their consequences

15:00–15:30 Alexander Kusenko Connecting particles to cosmos