

SECOND ITALY-UKRAINE MEETING IN ASTRONOMY  
MULTIWAVELENGTH ASTROPHYSICS FROM RADIO TO GAMMA-RAYS

PROGRAM

**Sept. 25**

08:45 – 09:00 Registration

Chairperson: Vadym Kaydash

09:00 – 10:00 Welcome addresses: Karazin University Rector *Vil Bakirov*, Governor of the Kharkiv Region *Yuliya Svitlychna*, Ambassador of Italy in Ukraine *Davide La Cecilia*, INAF Scientific Director *Filippo Zerbi*, UAA President *Yaroslav Yatskiv*

Chairperson: Victor Kontorovich

10:00–10:25 *Michele Cantiello* Extra-galactic globular clusters: an overview and the science with VST  
10:25 –10:50 *Pietro Schipani* VST & SOXS in the current and next decade  
10:50–11:15 *Enrichetta Iodice* The VEGAS program with VST

11:15 – 11:45 *Coffee break* (30 min)

Chairperson: Tiziana Venturi

11:45 – 12:10 *Mariateresa Crosta* The Gaia mission: new challenges in gravitational astrometry  
12:10 – 12:35 *Vladimir Akhmetov* Some results of the Gaia DR2 data analysis  
12:35 – 13:00 *Olexey Golubov* Rotation curve of the Galaxy

13:00 –14:30 *Lunch*

Chairperson: Elena Bannikova

14:30 – 14:55 *Salvatore Capozziello* Theoretical cosmology in multimessenger era  
14:55 – 15:20 *Maksym Tsizh* Dark energy on cosmological and astrophysical scales: predictions and perspective of testing  
15:20 – 15:45 *Irina Vavilova* Large-scale structure of the universe: big data surveys vs. multiwavelength properties

15:45 – 16:15 *Coffee break* (30 min)

Chairperson: Federica Govoni

16:15 – 16:40 *Jader Monari* SKA technologies  
16:40 – 17:05 *Alexander Konovalenko* Recombination lines  
17:05 – 17:30 *Tiziana Venturi* Very Long Baseline Interferometry: Impact, Science and Perspectives  
17:30 – 17:55 *Oleksii Patoka* Microwave radioastronomy

19:00–21:00 *Evening event*: dinner hosted by the Ambassador of Italy in Ukraine

**Sept. 26**

Chairperson: Filippo Zerbi

09:00–09:25 *Yaroslav Yatskiv* Astronomy in Ukraine  
09:25 –09:50 *Bruno Leibundgut* The future projects of ESO  
09:50 –10:15 *Riccardo Smareglia* INAF big data challenges

10:15 – 10:35 *Patrizia Caraveo* Satellite and Cherenkov telescopes to study the gamma-ray universe

10:35 – 11:05 *Coffee break (30 min)*

Chairperson: *Yaroslav Yatskiv*

11:05 – 11:30 *Eugenio Cocchia* Opening the gravitational wave window to the Universe  
 11:30 – 11:55 *Enzo Brocato* Ground based electromagnetic follow-up of gravitational wave sources

11:55 – 12:20 *Roberto Ragazzoni* High angular resolution from the ground  
 12:20 – 12:45 *Valentin Melnik* Sporadic radio emission of the Sun at decameter waves

13:00 – 14:30 *Lunch*

Chairperson: *Yuriy Shkuratov*

14:30– 14:55 *Chiara Spiniello* *Gotta catch'Em All:* Strong gravitational lenses in KiDS and KABS  
 14:55 – 15:20 *Alexander Zheleznyak* Investigations of gravitational lensing in Kharkiv  
 15:20 – 15:45 *Elena Bannikova* Hidden properties of AGNs and ring galaxies

15:45 – 16:15 *Coffee break (30 min)*

Chairperson: *Jader Monari*

16:15 – 16:40 *Federica Govoni* Italian involvement in national and international radio facilities  
 16:40 – 17:05 *Oleg Ulyanov* Calibration of large phased antenna arrays  
 17:05– 17:30 *Andrea Possenti* The many lives of pulsar astronomy  
 17:30– 17:55 *Vyacheslav Zakharenko* Decameter pulsar/transient survey

Chairperson: *Massimo Capaccioli*

17:55 – 18:30 *Concluding remarks*

19:30–22:00 *Evening event:* conference dinner offered by the Rector of the Karazin University

**Sept. 27**

Chairperson: *Vyacheslav Zakharenko*

09.00 – 18.00 *Excursion to the UTR-2 radio telescope, 85 km from Kharkiv*