

## PROGRAM

### MONDAY 11.09.2017

9:00-11:00 registration

chair: **BISNOVATYI-KOGAN G.**

11:00-11:30 opening

11:30-12:15 PIRAN T. GRB physics

12:15-13:00 TCHEKHOVSKOY A. Hydromagnetic Processes around Black Holes

13:00-15:00 **lunch**

chair: **PIRAN T.**

15:00-15:25 POZANENKO A. Search for signature of the LIGO gravitational wave events in the SPI-ACS gamma-ray detector of the INTEGRAL observatory

15:25-15:50 VOLNOVA A. Multicolour modelling of SN 2013dx associated with GRB 130702A

15:50-16:15 MINAEV P. Precursors of short gamma-ray bursts in the SPI-ACS/INTEGRAL experiment

16:15-16:45 **coffee break**

chair: **KOVALEV Y.**

16:45-17:10 CHERNOGLAZOV A., BESKIN V. On the internal structure of relativistic jets collimated by ambient gas pressure

17:10-17:55 ZIRAKASHVILI V. Particle acceleration at forward and reverse shocks in SNRs

18:00 **welcome party**

### TUESDAY 12.09.2017

chair: **MOISEENKO S.**

10:00-10:45 MALKOV M. Anomalies in Galactic Cosmic Rays: Time for Exotic Scenarios?

10:45-11:30 FUCHS J. High-power laser laboratory astrophysics: jet formation and mass accretion in young stars

11:30-12:00 **coffee break**

chair: **FUCHS J.**

12:00-12:25 BELYAEV V. Investigations of the physical nature of the emergence and spread of relativistic astrophysical jets

12:25-12:50 KRAUZ V. Laboratory Simulation of Astrophysical Jets within Facilities of Plasma Focus Type

12:50-15:00 **lunch**

**chair: TCHEKHOVSKOY A.**

15:00-15:25	TOROPINA O.	MHD Simulation of Laboratory Jets
15:25-15:50	KORNEEV Ph.	Astrophysical-related studies in laboratory with magnetized laser plasma: magnetization approaches.
15:50-16:15	MARCOTE B.	The first localization of a Fast Radio Burst and resulting high-energy implications
16:15-16:45	<b>coffee break</b>	

**chair: TIMOKHIN A.**

16:45-17:10	POPOV S.	Fast radio burst: superpulsars, magnetars, or something else?
17:10-17:35	BISNOVATYI-KOGAN G.	Annihilation line from the galactic bulge due to action of low-mass flare stars
17:35-18:00	IRWIN C.	The Propagation of a Choked Jet in a Power-Law External Density

**WEDNESDAY 13.09.2017****chair: KOCHAROVSKY VI.**

10:00-10:45	KOVALEV Y.	RadioAstron: going deep into AGN jets
10:45-11:30	DORODNITSYN A.	AGN winds – prospects and challenges of theoretical models
11:30-12:00	<b>coffee break</b>	

**chair: DORODNITSYN A.**

12:00-12:25	TORRES-ALBA N.	Collective emission from stellar wind bubbles interacting with an extragalactic jet
12:25-12:50	VIEYRO F.	Non-thermal emission resulting from a supernova explosion inside an extragalactic jet
12:50-15:00	<b>lunch</b> excursion, bus departure from IKI at 15:00	

**THURSDAY 14.09.2017****chair: POZANENKO A.**

10:00-10:45	BOGOVALOV S.	Numerical modeling of the winds from relativistic objects
10:45-11:30	TIMOKHIN A.	Pulsar Magnetospheres
11:30-12:00	<b>coffee break</b>	

**chair: BOGOVALOV S.**

12:00-12:25	ROMERO G.	Population III Microquasars
12:25-12:50	NOKHRINA E.	Physical Parameters of Relativistic Jets During Flares
12:50-15:00	<b>lunch</b>	

**chair: ROMERO G.**

15:00-15:25	KOCHAROVSKY VI.	Self-Consistent Neutral Current Filaments in a Relativistic Collisionless Plasma
15:25-15:50	GOTTLIEB O.	The cocoon emission - an electromagnetic counterpart to gravitational waves from neutron star mergers
15:50-16:15	GLUSHIKHINA M.	Calculation of thermal conductivity coefficients of electrons in magnetized dense matter

conference dinner on the boat,  
bus departure from IKI at 17:00

**FRIDAY 15.09.2017**

**chair: TSUPKO O.**

10:00-10:45	MARTI J.-M.	Recollimation shocks in relativistic jets
10:45-11:30	BOSCH-RAMON V.	Gamma loud binaries
11:30-12:00	<b>coffee break</b>	

**chair: MARTI J.-M.**

12:00-12:25	POTASHOV M.	Some problems in spectral modelling of pulsational pair instability SN 2006gy
12:25-12:50	MOISEENKO S.	Isentropic "Shock Waves" in Numerical Simulations of Astrophysical Problems
12:50-15:00	<b>lunch</b>	

**chair: BOSCH-RAMON V.**

15:00-15:25	LOPEZ-ORAMAS A.	VHE observations of binary systems performed with the MAGIC telescopes
15:25-15:50	PITTORI C.	AGILE results on relativistic outflows above 100 MeV
15:50-16:15	BROMBERG O.	Magnetic energy dissipation and stability of GRB jets
16:15-16:45	<b>coffee break</b>	

**chair: AHARONIAN F.**

16:45-17:25	TSUPKO O.	Influence of a plasma on the black hole shadow
17:25-17:55	closing	

## POSTERS

the posters will be available during the whole conference.

- BAGHMANYAN V. X- and gamma-ray emissions from NLSy1 galaxies
- GASPARYAN S. On the origin of HE and VHE gamma-ray flares from FSRQs
- MALKOV M. From Scatter-Free to Diffusive Propagation of Energetic Particles with Exact Solution of Fokker-Planck Equation
- MAZAEVA E. Non-homogeneities in gamma-ray bursts afterglow light curves
- PEROV N. On a solution of the quasar's catastrophe problem
- SONG Y. Enhanced gamma radiation toward the rotation axis from the immediate vicinity of extremely rotating black holes
- TROSHCHIEV Y. Quasirelativistic equations for the solar corona plasma and a variant of rationale of its high temperature
- ZARGARYAN D. Chandra observations of gamma-ray emitting radio galaxies

## REGISTERED PARTICIPANTS

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