ZELDOVICH-100 CONFERENCE

IKI, MOSCOW, JUNE 16-20, 2014

PARALLEL SECTIONS PROGRAM

Section 2: HIGH ENERGY ASTROPHYSICS

Wednesday, JUNE 18

Theory of Accretion

	Theory of Accretion	
9:30-9:50	Abramovicz, Marek Transonic accretion onto a black hole	
9:50-10:10	Chakrabarti, Sandip Complete Solution of Black Hole Accretion: Theory, Numerical simulation and extraction of flow parameters from XSPEC fitting	
10:10-10:30	Inogamov, Nail Accretion of rotating gas through Bondi radius onto a supermassive black hole	
10:30-10:50	Rafikov, Roman Between the Disk and the Star: New Ideas on the Boundary Layers of Accretion Disks	
10:50-11:10	Shakura, Nikolai Quasi-spherical Wind Accretion onto magnetized neutron stars and nature of SFXTs	
11:10-11:40	Coffee break	
11:40-12:00	Veledina, Alexandra Striking optical variability in X-ray binaries as a probe of accretion picture	
Physical processes		
12:00-12:20	Bogovalov, Sergey Magnetocentrifugal acceleartion of plasma in the pulsar magnetosphere	
12:20-12:40	Kocharovsky, Vladimir Relativistic effects and cyclotron line formation in	

12 40 12 00	The state of the s
12:40-13:00	Vereshchagin, Gregory (TBC) Photospheric emission from relativistic outflows
	Compact objects
13:00-13:20	Levin, Yuri Magnetar activity
13:20-15:00	LUNCH and poster session
15:00-15:20	Poutanen, Juri Advances in X-ray burst modelling
15:20-15:40	Revnivtsev, Mikhail Emission of neutron stars as a tool to measure matter properties at supernuclear densities
15:40-16:00	Titarchuk, Lev Observational signatures of a black hole and neutron star
	Populations of X-ray binaries in galaxies
16:00-16:20	Fabrika, Sergei Ultraluminous X-ray Sources
16:20-16:40	Lutovinov, Alexander High-Mass X-ray Binaries in hard X- rays
16:40-17:10	Coffee break
17:10-17:30	Popov, Sergei Initial parameters and evolution of neutron stars
17:30-17:50	Postnov, Konstantin X-ray sources in elliptical galaxies: formation and evolution

magnetized atmospheres of compact stars

AGN

17:50-18:10 Sazonov, Sergey

The true fraction of obscured AGN and its dependence on luminosity

18:10-18:30 Stern, Boris Fermi observations of blazars, constraints on the location of the gamma-ray emission region

Observations			
12:00-12:20	Moskalenko, Igor Gamma-ray sky: Fermi spacecraft results		
12:20-12:40	Cherepashchuk, Anatoly INTEGRAL observations of supercritically accreting microquasar SS433		
12:40-13:00	Gnedin, Yuri Nickolaevich Magnetic Fields of Accreting Black Holes in Active Galactic Nuclei with High Energy Gamma-Ray Radiation		
13:00-13:20	Paerels, Frits Photospheric Spectroscopy of Hot Neutron Stars in the Fe Lyman Band		
13:20-15:00	LUNCH and poster session		
15:00-15:20	Su, Meng Fermi Bubbles through eROSITA's Eye and the Implications to Recent Accretion Events of the Galactic Supermassive Black Hole		
Type Ia supernovae			
15:20-15:40	Chechetkin, Valeri Mechanism of supernova explosion		
15:40-16:00	Dong, Subo Head-on collisions of white dwarfs in triple systems explain type Ia supernovae		
16:00-16:20	Grebenev, Sergey Supernova radioactivity from X- and gamma-ray observations		

16:40-17:10 Coffee break

Shchekinov, Yuri

16:20-16:40

Ignition and launching the galactic wind by multiple SNe explosions

Magnetic fileds

17:10-17:30	Buechner, Joerg About a subgrid scale approach to turbulent dynamo and reconnection.
17:30-17:50	Pogosian Levon Primordial magnetism in CMB
17:50-18:10	Rudnick, Lawrence Diffuse Non-thermal/Thermal Interactions: an observer's view
18:10-18:30	Shukurov Anvar Turbulence and magnetic fields in galaxy clusters
18:30-18:50	Sokoloff, Dmitry Magnetic fields of galaxies and uniform cosmological magnetic field