ZELDOVICH-100 CONFERENCE

IKI, MOSCOW, JUNE 16-20, 2014

MONDAY, JUNE 16

9:30 REGISTRATION

MEMORIAI	L SESSION
10:00	Opening of the Conference
10:05	Alex Szalay, Zeldovich and Cosmology
10:20	Jaan Einasto, Zeldovich and Cosmology
10:35	Boris Zeldovich (University of Central Florida), Yakov Zeldovich in real life
11:05	Robert Nigmatullin (Institute of Oceanology RAS, Moscow), Zeldovich and hydrodynamics
11:35-12:00	Coffee break
CMB and Co	osmology
12:00	Jan Tauber (ESTEC), PLANCK mission
12:30	John Kovac (CfA, Harvard) B-modes and the BICEP / Keck Array
12.00	CMB polarization survey
13:00	Jean-Loup Puget (IAS, Orsay) Planck polarization data: being limited by foregrounds and systematics and not by noise
13:30-15:00	LUNCH
15:00	John Carlstrom (Chicago), South Pole Telescope and Results
15:30	Lyman Page (Princeton), Atacama Cosmology Telescope and Results
16:00	Alexei Starobinsky (Landau Institute), Beyond the Harrison-Zeldovick spectrum: inflation after the WMAP, Planck and BICEP2 data
16:30-17:00	Coffee break
17:00	Slava Mukhanov (LMU, Munich), Quantum Universe
17:30	Eiichiro Komatsu (MPA, Garching), Polarization of the Cosmic
	Microwave Background: Toward an Observational Proof of Cosmic Inflation
18:00–18:30	Valery Rubakov (INR), Pseudo-conformal Universe: towards being falsified

18:30-21:00 Reception, Memorial talk by Bruce Partridge

TUESDAY, JUNE 17

X-Ray and CMB space missions: recent and future

09:30	Mikhail Pavlinskii (IKI, Moscow), ART-XC on Spectrum-Roentgen-
	Gamma
10:00	Peter Predehl (MPE, Garching), eROSITA on Spectrum-Roentgen-
	Gamma
10:30	Jacques Delabrouille (University Paris Diderot), A future CMB
	satellite mission after Planck?
11:00	Fiona Harrison (Caltech), New Results from the NuSTAR: The
	High Energy X-ray Sky In Focus

11:30-12:00 Coffee break

Cosmological simulations

Avishai Dekel (The Hebrew University of Jerusalem), Feeding
Galaxies by Cosmic-Web Streams and Pancakes
Debora Sijacki (Cambridge), Resolving the flows around black holes
in cosmological simulations
Tom Abel (Stanford), Dark Matter Dynamics

13:30-15:00 LUNCH and poster session

Cosmological simulations and theory

15:00	Piero Madau (UC Santa Cruz), The Dark and Light Side of Galaxy
	Formation
15:30	Rashid Sunyaev (IKI, MPA), The black body photosphere and last
	scattering surface of our Universe and spectral distortions of the CMB
	due to early energy release

Black Holes

16:00 Abraham Loeb (Harvard), A Closer Look at Black Holes

16:30-17:00 Coffee break

17:00	Scott Tremaine (Institute for Advanced Study, Princeton), Binary black holes and the broad-line region in quasars
17:30	James Stone (Princeton), Modeling Radiation-Dominated Black Hole
	Accretion Disks
18:00-18:30	Stefan Gillessen (MPE, Garching), Observing a gas cloud disrupt on its way to Sgr A*

WEDNESDAY, JUNE 18

09:30-11:10	Parallel sessions
11:10-11:40	Coffee break
11:40-13:20	Parallel sessions
13:20-15:00	LUNCH
15:00-16:40	Parallel sessions
16:40-17:10	Coffee break
17:10-18:30	Parallel sessions
18:45-22:45	Conference Dinner
20:00-21:00	Afterdinner memorial talks: Ene Ergma, Nick Shakura, Remo Ruffini

THURSDAY, JUNE 19

Violent Universe

10:00	Shri Kulkarni (Caltech), The Dynamic Optical Sky
10:30	Bernard Schutz (Albert Einstein Institite), Gravitational
	waves, black holes, and eLISA
11:00	Bill Forman (CfA), Supermassive Black Holes at Work: "Fossil
	Records" of Outbursts from Supermassive Black Holes and the Effects
	of Outbursts on the Evolution of Gas Rich Galaxies, Groups, and
	Galaxy Clusters

11:30-12:00	Coffee break
12:00-13:20	Parallel sessions
13:20-15:00	LUNCH and poster session
15:00-16:40	Parallel sessions
16:40-17:10	Coffee break
17:10-19:10	Parallel sessions

FRIDAY, JUNE 20

Star Formation, external galaxies and Black Holes

- 09:30 Chris McKee (UC Berkeley), Star formation
- 10:00 Marat Gilfanov (IKI, MPA), X-ray binaries and star formation rate in external galaxies
- 10:30 Dmitri Varshalovich (Ioffe Institute, St-Peterburg), HD/H2 interstellar clouds at high redshifts

11:00-11:30 Coffee break

- 11:30 Asantha Cooray (UC Irvine), The dusty universe unveiled by Herschel
- 12:00 Eugene Churazov (IKI, MPA), First detection of ⁵⁶Co gamma-ray lines from type Ia supernova (SN2014J) with INTEGRAL
- 12:30 Zoltan Haiman (Columbia, NY), Electromagnetic Signatures from Binary Black Holes

13:00-14:30 LUNCH and poster session

Clusters of Galaxies in X-Rays and in CMB maps

- 14:30 Alexey Vikhlinin (CfA, IKI), Chandra observations of the Cosmic Web converging on a rich galaxy cluster.
- 15:00 Monique Arnaud (Saclay), Planck view of galaxy clusters
- 15:30 Hans Boehringer (MPE), Cosmology with X-ray Galaxy Clusters

16:00 -16:30 Coffee break

- 16:30 Andrey Kravtsov (Chicago), The baryon content of galaxy clusters and evolution of cluster scaling relations
- 17:00 Alex Szalay (JHU), Redshift Space Distortions and Baryon Acoustic Oscillations
- 17:30 Joachim Wambsganss (Heidelberg), Gravitational lensing

18:00 The end of the conference