**Friday 14th October 2011**

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<th>Gravitational waves and precision tests of general relativity</th>
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<td>Frontera Filippo</td>
<td>Zhang Chengmin, Strom Richard</td>
<td>Li Xiang-Dong, Hyung Won Lee</td>
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<td>14.00-14.30</td>
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**Ioannis Georgantopoulos**
- **Zsolt Paragi**
- **Rueda Jorge Armando**
- **Stefan Westerhoff**
- **Hyung Won Lee**

**Roberto Gilli**
- **Huang Lei**
- **Abdilin, Meirkhan**
- **Marco Ricci**
- **Lukierski, Jerzy Andrzej**

**Han Jinlin**

**Zhang Jin**
- **Tian Wenwu**
- **Kuantay Boshkayev**
- **Shoushang Zhang**
- **Zhang Yang**

**Wang Na & Yuan Jianping**

**Coffee Break 20 min**

**Wang Wei**
- **Luca Naso**
- **Riccardo Belvedere**
- **Jing Huang**
- **Eloisa Menegoni**

**Paolo Giommi**
- **Zhu Ming**
- **Muhammad Sharif**
- **Giuseppe Di Sciascio**
- **Alessandor Melchiorri**

**Sahakyan Narek**
- **Guojun Qiao**
- **Ghulam Abbas**
- **Denis Bastieri**
- **Bernardo Fraga**

**Jian-Min Wang**
- **Zhang Chengmin**
- **Kausar, Hafiza Rizwana**
- **Gaku Mitsuka**
- **Tipei Li**

**Yan Wenming**
- **Open Discussions On AXP and SGR**
- **Boshkayev, Renxin Xu, Rueda, Ruffini**

**Wang Wei**
- **Poster Session:**
  - Nurzada Beissen
  - Medeu Abishev
  - Sheyse M. de Carvalho

**14.00-14.30**
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Galactic compact objects and supermassive black holes
Georgantopoulos Ioannis: X-ray spectroscopy for the detection of highly obscured AGN
Gilli Roberto: The cosmological evolution of SMBH as traced by X-ray observations
Zhang Jin: Radiation Mechanisms and Physical Properties of TeV Active Galactic Nuclei
Wang Wei: Galactic 26AI 1.8 MeV gamma-ray surveys with INTEGRAL
Giommi Paolo: Multi-frequency observations of Blazars
Jian-Min Wang: Cosmological evolution of supermassive black holes

**Pulsar and Radio Astronomy**
Zsolt Paragi: Compact Objects Near and Far with the European VLBI Network
Huang Lei: Constraining The Flare Region For Sagittarius A* By 1.3mm Vlbi Measurements
Han JinLin: Pulsars as probes for ISM
Naso Luca: Magnetic field structure in accretion discs around neutron stars and consequences for the change of spin
Wang Na & Yuan Jianping: A decade of pulsar timing observations at Nanshan
Guojun Qiao: Radio and high-energy radiatio from normal and millisecond pulsars and the annular gap model

**Black Holes, Neutron Stars and White Dwarfs**
Malheiro Manuel: SGRs and AXPs: White Dwarf Pulsares versus Magnetars
Abdildin, Meirkhan: On the unity of acceleration field and vortex field in GR mechanics
Belvedere Riccardo: Mass, Radius and Moment of Inertia of Neutron Stars
Sharif Muhammad: Tunneling of Dirac Particles
Ghulam Abbas: Perfect Fluid Accretion by the Interior of a Black Hole
Authors: M. Sharif and G. Abbas

Abstract: This paper deals with the perfect fluid accretion by the interior of a black hole in conformal gravity. We derive equation of motion for the accretion process by using energy conservation, Bernoulli equation and mass flux conservation equation. The conditions for critical accretion are explored. It is found that the mass of black hole increases due to perfect fluid (satisfying null energy condition) accretion. There exist two critical points that lie in the exterior of horizons. Results for accretion onto the Schwarzschild black hole can be recovered.

Kausar, Hafiza Rizwana: Shearfree Gravitational Collapse in f(R) theory
This paper is devoted to study shearfree fluid collapse in modified f(R) gravity. We assume stars with anisotropic fluid distribution which undergoes dissipation in the form of heat flow, null radiation and shearing viscosity. The vanishing of shear tensor plays an important role in self-gravitating system and appearance of naked singularity. We investigate some solutions in f(R) theory under the assumption shearfree and discuss dynamical instability of spherically symmetric fluid distribution

**High Energy Cosmic Rays**
Westerhoff Stefan: Observation of Anisotropy in the Arrival Directions of Galactic Cosmic Rays with IceCube
Ricci Marco: The JEM-EUSO Mission
Shoushang Zhang: Hybrid measurement of CR light component spectrum by using ARGO-YBJ and WFCTA
Di Sciascio Giuseppe: Observation of cosmic ray anisotropy with ARGO-YBJ
Gaku Mitsuka: LHCf results and their relevance for the HECR physics
Siming Liu: Particle Acceleration in SNRs

**CMB and Dark Energy**
Hyung Won Lee: Evolution of distribution function for cosmological neutrino
Lukierski, Jerzy Andrzej: Generalized cosmological term from Maxwell symmetries
Zhang Yang: Analytic spectra of CMB anisotropies and polarization
Menegoni Eloisa: Constraining Variations in the Fine Structure Constant from next survey experiment
Tafel Jacek: Static spherically symmetric black holes with scalar field
Liu Hao: Current and future CMB data processing
Darabi Farhad: Power-law solutions in f(G) gravity