

Friday 14th October 2011

X and Gamma Ray Astrophysics	Gravitational waves and precision tests of general relativity	General Relativity, GRBs, neutron star and supernovae	Astroparticle Physics	Cosmology, Large Scale Structure and Dark Matter
Room A508	Room A208	Room A135	Room A408	Room A308
Topic: Galactic compact objects and supermassive black holes	Topic: Pulsar and Radio Astronomy	Topic: Black Holes, Neutron Stars and White Dwarfs	Topic: High Energy Cosmic Rays	Topic: CMB and Dark Energy
Chair: Frontera Filippo	Chairs: Zhang Chengmin Strom Richard	Chairs: Li Xiang-Dong Hyung Won Lee	Chair: Cao Zhen	Chair: Rosquist Kjell
14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30	14.00-14.30
Ioannis Georgantopoulos invited	Zsolt Paragi invited	Rueda Jorge Armando invited	Stefan Westerhoff invited	Hyung Won Lee invited
14.30-15.00	14.30-14.45	14.30-14.40	14.30-15.00	14.30-15.00
Roberto Gilli invited	Huang Lei	Abdildin, Meirkhan invited	Marco Ricci invited	Lukierski, Jerzy Andrzej Invited
	14.45-15.00			
	Han Jinlin			
15.00-15.30	15.00-15.15	14.40-15.10	15.00-15.30	15.00-15.30
Zhang Jin invited	Tian Wenwu	Kuantay Boshkayev invited	Shoushang Zhang invited	Zhang Yang invited
	15.15-15.30			
	Wang Na & Yuan Jianping			
<i>Coffee Break 20 min</i>	<i>Coffee Break 20 min</i>	<i>Coffee Break 20 min</i>	<i>Coffee Break 20 min</i>	<i>Coffee Break 20 min</i>
15.50-16.05	15.50-16.05	15.50-16.20	15.50-16.15	15.50-16.20
Wang Wei	Luca Naso	Riccardo Belvedere	Jing Huang	Eloisa Menegoni
16.05-16.35	16.05-16.35	16.20-16.30	16.15-16.40	16.20-16.35
Paolo Giommi	Zhu Ming	Muhammad Sharif	Giuseppe Di Sciascio	Alessandor Melchiorri Skype connection
16.35-17.05	16.35-17.05	16.30-16.40	16.40-17.05	16.35-16.50
Sahakyan Narek	Guojun Qiao	Ghulam Abbas	Denis Bastieri	Bernardo Fraga
17.05-17.35	17.05-17.20	16.40-16.50	17.05-17.30	16.50-17.05
Jian-Min Wang	Zhang Chengmin	Kausar, Hafiza Rizwana	Gaku Mitsuka	Tipei Li
	17.20-17.35	16.50-17.50	17.30-17.55	
	Yan Wenming	Open Discussions On AXP and SGR	Qiang Yuan	
		Boshkayev, Renxin Xu, Rueda, Ruffini		
	17.35-17.50	Poster Session: Nurzada Beissen Medeu Abishev Sheyse M. de Carvalho	17.55-18.20	
	Wang Wei		Siming Liu	

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 26Al 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

Yan Wenming: Polarization observations of 20 millisecond pulsars

Wang Wei: Distance of Gamma-ray Pulsars

Black Holes, Neutron Stars and White Dwarfs

Malheiro Manuel: SGRs and AXPs: White Dwarf Pulsars 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