

W1: Classical General Relativity and Gravitational Waves

Schedule of Talks

Thursday, December 15, 2011 : 1400 – 1730 : Gravitational waves

Time	Name of the Speaker	Title
Topic: Gravitational Waves		
1400 – 1412	Bruce Allen	The Einstein@Home search for new neutron stars
1412 – 1424	Maria Alessandra Papa	Deep searches for continuous gravitational wave signals
1424 – 1436	John Whelan	Directed searches for continuous gravitational waves
1436 – 1448	C.S. Unnikrishnan	The design and characteristics of the TIFR gravitational wave prototype detector
1448 – 1500	Luca Baiotti	Gravitational waves from simulations of binary neutron stars
1500 – 1512	Luke Butcher	Localizing the energy and momentum of linear gravity
1512 – 1524	Chandra Kant Mishra	Nonspinning inspiralling compact binaries in quasi circular orbits: 2.5 PN linear momentum loss and associated recoil
1524 – 1536	Mansi Kasliwal	The transient electromagnetic sky
1536 – 1600	Coffee Break	
1600 – 1612	Samaya Nissanke	Localizing compact binary inspirals on the sky using ground-based gravitational wave interferometers
1612 – 1624	Steven Hergt	On the comparison of results regarding the post-Newtonian approximate treatment of the dynamics of extended spinning compact binaries
1624 – 1636	P. Ajith	Addressing the spin question in gravitational-wave searchers: Spin distribution of compact binary populations
1636 – 1648	Satyanarayan Ray Pitambar Mohapatra	Detectability of binary black hole merger signals in ground based gravitational wave detectors
1648 – 1700	Sanjit Mitra	Probing a stochastic gravitational wave background using a network of laser interferometric detectors
1700 – 1712	Arun K.G.	Possible bounds on vector modes of generic metric theories of gravity using gravitational wave observations
1712 – 1724	Tjonnie Li	Coalescing binary neutron stars and black holes as laboratories for testing general relativity

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Schedule of Talks

Friday, December 16, 2011 : 1500 – 1830 : Classical General Relativity

Time	Name of the Speaker	Title
Topic: Classical General Relativity		
1500 – 1515	Tomohiro Harada	High-velocity collision of particles around a rapidly rotating black hole
1515 – 1530	Mauri Valtonen	Black hole binary OJ287 as a testing platform for general relativity
1530 – 1545	Samuel Gralla	Why do spinning black hole binaries bob and kick?
1545 – 1600	Gustavo Dotti	Instabilities in super extreme Kerr spacetime and black hole interiors
1600 – 1615	Mandar Patil	Naked singularities as particle accelerators
1615 – 1630	Jacek Tafel	Static, spherically symmetric black holes with scalar field
1630 – 1700	Coffee Break	
1700 – 1715	Sayan Kar	Confinement and focusing of geodesics in warped spacetimes
1715 – 1730	Ernesto Nungesser	Late-time asymptotics of some Bianchi A spacetimes with collisionless matter
1730 – 1745	Sunil Maharaj	New models with heat flow and Lie symmetries
1745 – 1800	Sushant Ghosh	Inhomogeneous dust collapse in 5D Einstein-Gauss-Bonnet gravity
1800 – 1815	Seiju Ohashi	Spherical collapse of inhomogeneous dust cloud in the Lovelock theory
1815 – 1830	Daniele Malafarina	Static configurations from gravitational collapse

POSTERS (33) : December 14-15, 2011

No.	AUTHOR	TITLE
01	Gareth Amery	Exact solutions for isometric embeddings of pseudo-Riemannian manifolds
02	Rudranil Basu	Local symmetries of non-expanding horizons
03	Gabriel Govender	Generalised junction conditions for radiating star
04	Sarbari Guha	Gravity in five-dimensional warped product space-times with time-dependent warp factor
05	Sudan Hansraj	Perfect fluid spacetimes conformally related to the Schwarzschild exterior metric
06	Suraj Hegde	Analytical theory for optical black hole analogs
07	Sanjay Jhingan	Depletion of energy from naked singular regions during

		gravitational collapse
08	Laishram Kapil	Hawking radiation from Reissner-Nordstrom-Vaidya black hole by using Hamilton-Jacobi method
09	Priti Mishra	Quadrupolar gravitational back-reaction and flat galaxy rotation curves
10	Arunava Mukherjee	Recent observations of extremely strong gravity phenomena and its interesting consequences
11	Sourya Ray	Birkhoff's theorem in higher derivative theories of gravity
12	Pankaj Sharan	Variational principle in the extended phase space formalism
13	Ranjan Sharma	Spacetime inhomogeneity and gravitational collapse
14	Ramesh Tikekar	Spherical fluid collapse with radiation on in-homogeneous spacetime background
15	Nijo Varghese	Behaviour of massive scalar field around a black hole in Horava gravity
16	Ram Gopal Vishwakarma	Pressure in the relativistic representation of matter
17	Carlos Filipe Da Silva Costa	Spherical gravitational wave detectors: Mario Schenberg and Mini GRAIL
18	Patrick Das Gupta	Gravitational waves in the presence of a dynamical four-form
19	Suresh Doravari	Third harmonic resonant side band extraction and interferometer control at the Caltech 40 m prototype
20	Ryuichi Fujita	Gravitational waves from extreme mass ratio inspirals to the 14th post-Newtonian order
21	Shaon Ghosh	Searching for short duration gamma ray bursts in ligo with large sky position uncertainties
22	A. Gopakumar	Gravitational wave phasing for spinning compact binaries
23	Anuradha Gupta	Compact binaries in hyperbolic orbit encounters
24	Rajalakshmi Gurumurthy	Short range force measurement employing prototypes of interferometric gravity wave detectors
25	David Keitel	An F-statistic based multi-detector veto for detector artifacts in searches for continuous gravitational waves
26	Archana Pai	Tests of post-Newtonian theory using singular value decomposition in parameter estimation
27	Reinhard Prix	Bayesian detection methods for continuous gravitational waves
28	Pablo Antonio Rosado Gonzalez	Gravitational wave background from binary system
29	Anand Sengupta	Cosmology with the network of advanced gravitational wave detectors
30	Manuel Tessmer	Full-analytic time Fourier-domain gravitational waveforms from inspiralling eccentric compact binaries through 2PN
31	Salvatore Vitale	Effect of detectors calibration errors on parameter estimation of gravitational waves from inspiral compact binaries
32	Niels Warburton	A fast frequency-domain algorithm for gravitational self-force: Eccentric orbits in Schwarzschild spacetime
33	John Whelan	Treatment of calibration uncertainty in multi-baseline cross-correlation searches for gravitational waves