Session Program

4-9 Dec 2015



28th Texas Symposium on Relativistic Astrophysics

03 - Modifications of gravity

International Conference Centre Geneva 17 Rue de Varembé, 1211 Geneva

Sunday 6 December

16:15 03 - Modifications of gravity Session | Location: International Conference Centre Geneva, Level 2, Room 14 | Convener: Anne-Christine Davis 16:15-16:35 The radial velocity profile of the filament galaxies in the vicinity of the Virgo cluster as a test of gravity Speaker Prof. Jounghun Lee 16:35-16:55 A Universal velocity dispersion profile for pressure supported systems: evidence for MONDian gravity across 12 orders of magnitude in mass Speaker Mr Reginaldo Durazo 16:55-17:25 Searching for new short-range forces using optically levitated microspheres Speaker David Moore 17:25-17:45 The variation of the fine-structure constant from disformal couplings Speaker Mr Jurgen Mifsud 17:45-18:10 Lorentz violation in gravity Speaker Diego Blas Temino 18:10-18:13 Is the Ni's solution of the Tolman-Oppenheimer-Volkoff problem without the maximum-mass limit applicable to the real neutron stars? A discussion Speaker Dr Lubos Neslusan 18:13-18:16 A relativistic metric extension of gravity based in the dynamics and lensing of individual, groups and clusters of galaxies Speaker Dr Sergio Mendoza 18:16-18:19 Varying constants entropic cosmology Speaker Hussain Gohar Kaluza-Klein cosmological model in \$f(R,T)\$ gravity with \$\Lambda(T) 18:19-18:22 Speaker

Prof. Pradyumn Kumar Sahoo



Monday 7 December

Location: Interr Convener: Ann	national Conference Centre Geneva, Level 2, Room 14, 17 Rue de Varembé, 1211 Geneva e-Christine Davis
14:00-14:21	Aspects of infrared non-local modifications of General Relativity
Speaker Ms Giulia Cusir	1
14:21-14:42	Non-locality in General Relativity and Quantum Field Theory
Speaker Xavier Calmet	
14:42-15:03 Beyond Ger Solutions	neral Relativity: The Geometric Deformation and New Black Hole
Speaker Jorge Ovalle	
15:03-15:24	Linearly shielded modifications of gravity
Speaker	
Dr Lucas Lomb 15:24-15:45 Initial cond approximat	^{riser} itions for simulations of arbitrary modified gravity, beyond quasi-st ions
Dr Lucas Lomb 15:24-15:45 Initial cond approximat Speaker Wessel Valkent	riser itions for simulations of arbitrary modified gravity, beyond quasi-sta ions
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	Speaker Johannes Noller
	17:35-17:55 Quasi-scale invariant inflationary attractors
	Speaker Massimiliano Rinaldi
	17:55-18:15 Quasi-Static Solutions for Compact Objects in Chameleon Models
	Speaker Dr Ilia Musco
18:45	18:15-18:45 gap