

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

18:19–18:22

Kaluza-Klein cosmological model in $f(R,T)$ gravity with $\Lambda(T)$

Speaker

Prof. Pradyumn Kumar Sahoo

18:45

18:22-18:25

A Palatini formalism for MOND in $f(\chi)$ gravity

Speaker

Ernesto Barrientos Rodríguez

18:25-18:28

Anisotropic Spherically Symmetric Collapsing Star From Higher Order Derivative Gravity Theory

Speaker

Dr Hossein Ghaffarnejad

18:28-18:45

gap

Monday 7 December

14:00

03 - Modifications of gravity

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Convener: Anne-Christine Davis

14:00-14:21

Aspects of infrared non-local modifications of General Relativity

Speaker

Ms Giulia Cusin

14:21-14:42

Non-locality in General Relativity and Quantum Field Theory

Speaker

Xavier Calmet

14:42-15:03

Beyond General Relativity: The Geometric Deformation and New Black Hole Solutions

Speaker

Jorge Ovalle

15:03-15:24

Linearly shielded modifications of gravity

Speaker

Dr Lucas Lombriser

15:24-15:45

Initial conditions for simulations of arbitrary modified gravity, beyond quasi-static approximations

Speaker

Wessel Valkenburg

15:45

16:15

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Consistent massive graviton on an arbitrary background

Speaker

Laura BERNARD

16:35-16:55

Linear perturbations in massive bigravity: formalism and cosmology

Speaker

Mariele Motta

16:55-17:15

Gravitational waves in a bigravity model: from inflation to present

Speaker

Pietro Guarato

17:15-17:35

Dualities and Symmetries of Galileons

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

18:15–18:45

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18:45