

CENTRE FOR THEORETICAL PHYSICS JAMIA MILLIA ISLAMIA, NEW DELLII



ON THE VIABILITY OF THEORIES BEYOND EINSTEIN'S GENERAL RELATIVITY

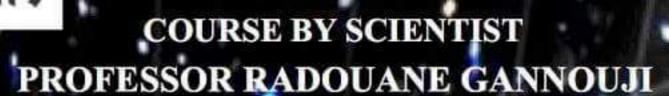
December 18-23, 2017

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Jamia Millia Islamia, New Delhi-110025

INFORMATION:-

http://www.gian.iitkgp.ac.in/GREGN





Participants from abroad: US \$500

Industry/ Research Organizations: INR 30000
Academic Institutions: Faculty members: INR 2000/Students & Ph. D. Scholars: INR 1000/-

One time Registration @ http://www.gian.iitkgp.ac.in/GREGN (Registration Fee INR 500)

COURSE FEES PAYMENT

The DD should be prepared in favour of "Registrar, Jamia Millia Islamia", Payable at New Delhi and submit to Centre for Theoretical Physics, JVII.

Prof. Radouane Gannouji is a researcher in General Relativity and Theoretical Cosmology at the Pontifical Catholic University of Valparaiso (PUCV) in Chile (http://fis.ucv.cl/). He obtained his PhD at University of Montpellier, France, in 2008, under the supervision of Professor David Polarski, followed by three postdoctoral fellowships in India, Japan and South Africa. His area of expertise is the study of extended theory of graving and their mability through screening mechanisms, as well as their signatures from the largest scales to the laboratory. He has published more than 20 extensive articles in peer-reviewed journals (Journal of Cosmology and Astroparticle Physics, Physical Review D, Classical and Quantum Gravity, Physics Letters B). He is a regular lecturer in Physics and Astronomy for undergraduate and graduate courses and is also a frequent reviewer in peer-reviewed journals and in research proposals in Chile, South Africa, France and Bratil.

COURSE OBJECTIVES

To expose participants to the current knowledge about gravity by covering a large number of experiments and observations. Initiate the participants to the current problems in cosmology such as dark energy, the cosmological constant problem, dark matter and inflation. Introduce the general theory of Einstein and its current status as a theory to explain our Universe, and its extension following the fundamental principles of an effective theory. Introduction of screening mechanisms: chameleon and Vainshtein. Applications of this formalism in the study of various models for each case with its successes and limitations. To provide training of Mathematica /Maple with applications to relativity and cosmology

COURSE CORDINATOR

Prof. Sushant G. Ghosh Hony. Director (Research) Jamia Millia Islamia E-mail:- sghosh2@jmi.ac.in, sgghosh@gmail.com



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