



CENTRE FOR THEORETICAL PHYSICS
JAMIA MILLIA ISLAMIA, NEW DELHI



ON THE VIABILITY OF THEORIES BEYOND EINSTEIN'S GENERAL RELATIVITY

December 18-23, 2017

@ Centre for Theoretical Physics
Jamia Millia Islamia, New Delhi-110025



INFORMATION:-
<http://www.gian.iitkgp.ac.in/GREGN>

**COURSE BY SCIENTIST
PROFESSOR RADOUANE GANNOUJI**

FEES

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, JMI.

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

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GIAN-CORDINATOR FOR JMI

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MINISTRY OF
HUMAN RESOURCE DEVELOPMENT, GOVT. OF INDIA

Quasars

Dark energy
accelerates
expansion

Dark

Quasars

9.3 bn years