



# Centre for Theoretical Physics

Jamia Millia Islamia, New Delhi

## Ph.D and Post-Doctoral Program

Centre for Theoretical Physics at Jamia Millia Islamia is a newly established research centre funded by the University Grant Commission, Govt. of India. The Centre currently focuses on Cosmology, High Energy Physics and Nuclear Physics.

This is an exciting time for high energy physics; when the Large Hadron Collider (LHC) starts colliding protons in Europe next year, it will mark the beginning of a new era in the physics of particles and forces. The LHC will take us to the Terascale regime shedding light on profound questions: the source of mass, the unification of forces, the nature of dark matter, and extra dimensions. On the other hand, cosmology is becoming precision science with telescopes probing even earlier epochs and larger volumes. A variety of data and surprising observational results are revolutionizing cosmology, and advances in particle physics and string-theory have brought it into closer contact with low energy physics and gravitation. The issues of dark energy and cosmic inflation are under active investigation. The aim of the Centre is to be at the forefront of research that exploits these connections bringing together particle physicists, cosmologists, astrophysicists and nuclear physicists together within a unique interdisciplinary culture.

In this regard, Centre invites applications from highly motivated students to pursue doctoral research in the following areas:

- Gravitation and Cosmology
- High Energy Physics-Particle Phenomenology, Neutrino Physics
- Nuclear Physics

The Ph.D. program will commence from September 1, 2007 with two semesters compulsory graduate course program. The minimum eligibility for admission in the Ph.D. program is 55% marks in M.Sc. exam. The students should apply in the prescribed format, which can be downloaded from the Centre's website. The application may be sent by email or in hard copy to to the "Coordinator Academic Programmes, Centre for Theoretical Physics" at the address given below in the prescribed format. The last date of application is **15<sup>th</sup> July 2007**. The shortlisted candidates will be called for an interview to be held at the Centre.

Person with Ph.D. in physics and research interests in any one of the topic listed above can apply for post doctoral positions on plain paper including their CV, list of publications and names addresses of at least three referees. These applications can be made any time of the year. Please send the application by email or as hard copy to the address given below.

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

**[www.jmi.nic.in/ctp](http://www.jmi.nic.in/ctp) Email: [ctp@jamia-physics.net](mailto:ctp@jamia-physics.net)**