

Subhaditya Bhattacharya

Research Summary:

I have joined the HRI Particle Physics Phenomenology Group this academic year and I am working under the supervision of Prof. Biswarup Mukhopadhyaya and Dr. Asesh Krishna Datta.

I have been working on the Supersymmetric Extension of Standard Model, specifically on collider signatures at the LHC due to Non-universal gaugino masses at the GUT scale that arises in N=1 Supergravity framework due to non-trivial gauge kinetic function.

Conference/Workshops Attended:

1. *LHC Conference*, Tata Institute of Fundamental Research, September 2006
2. *Topical Meeting on Physics at the LHC*, HRI, December 2006.
3. *WIN07*, Saha Institute of Nuclear Physics, January 2007.

Other Activities:

■ I helped as a tutor in Computational Physics course taken by Dr. Prasenjit Sen for the 2nd year 1st semester students(2006).

I was also a tutor along with Arijit Saha in the course of Advanced Quantum Mechanics instructed by Prof. Sumathi Rao for the 1st year 2nd Semester students(2006-2007).

I gave a talk at the Pheno-Lunch at HRI on Supersymmetric Golden Region based on the paper hep-ph/0702038.