

# **Theoretical Physics Seminars**

Leptogenesis in R violating MSSM with one  $SL$  violating coupling and Majorana phase

**Speaker:** Dr. Rathin Adhikari

**From:** CTP , University of Delhi

**When:** August 3 , 2017 Thursday 4:00 pm

**Place:** Room No. 469

We have shown a new scenario of successful leptogenesis with one  $L$  violating coupling and a relative Majorana phase playing the role of  $CP$  violation. This is in contrast to the usual consideration of diagrams with at least two  $L$  violating couplings. We have considered R-parity violating Minimal Supersymmetric Standard Model (MSSM) for leptogenesis at the TeV scale. This scenario is also consistent with generating appropriate light neutrino masses with the same  $L$  violating coupling.

**All are welcome**