

Area Seminar

Title Neutrino oscillation and present status of sterile neutrino

Date and Time 08/11/2012 16:00:00

Speaker Monojit Ghosh

Physical Research Laboratory, Ahmedabad

Area Theoretical Physics

Venue Room No. 469

Abstract Neutrino oscillation in standard three flavor picture is now well established from solar, atmosphere, reactor, and accelerator neutrinos. The mass squared differences governing these oscillations are $\sim 10^{-4}$ and 10^{-3} eV^2 . But recent experimental data is indicative of oscillations governed by mass squared differences $\sim \text{eV}^2$. This requires addition of a fourth light neutrino which must be a sterile. In my talk I will briefly describe the neutrino oscillation in vacuum and present status of sterile neutrino.