

THEORETICAL PHYSICS SEMINAR

Title: Texture Zero studies for the minimal extended type-I seesaw mechanism

Speaker: Newton Nath, Theoretical Physics Division, PRL

Date/Time/Venue: 4th April 2017 (Tuesday)/2:30 PM/ Room No. 469

Tea will be served at 3:30pm outside Room 469

ABSTRACT

In this talk, we will discuss about the minimal extended type-I seesaw (MES) model which can give rise to eV scale sterile neutrino. In this model, three right handed neutrinos and one extra singlet S are added to generate a light sterile neutrino. We study the zero textures of the Yukawa matrices for the MES model. Remarkably we obtain only two allowed one-zero textures namely, $m_{e\tau} = 0$ and $m_{\tau\tau}=0$ having inverted hierarchical mass spectrum. We also discuss the importance of next-to-leading order correction terms in this model.

All are welcome to attend