

THEORETICAL PHYSICS SEMINAR

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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

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

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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