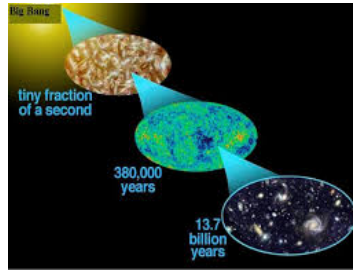


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## Mass Matrices And Sterile Neutrinos : an Overview

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Mass Matrices And Sterile Neutrinos : an Overview

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Neutrino oscillation experiments have provided solid evidence that, in contrast to the prediction of the Standard Model (SM), neutrinos are massive and that their flavors change during propagation. Despite the victorious accomplishment of solar, atmospheric, reactor and accelerator neutrino experiments, there are experimental anomalies that cannot be explained within the standard three active neutrino framework. In particular, the possible presence of sterile neutrinos points towards non-standard neutrino physics. The issue of the LSND and MiniBooNE results has been around for some time, and is frequently interpreted as a hint towards the presence of one or two sterile neutrino states. To solve sterile neutrino problem, there can be so many approaches like hybrid textures, zero determinant, zero trace, seesaw mechanism, radiative mechanism but particularly we emphasize our work by using texture specific mass matrices. We prepare an overview of all the examination that hints beyond standard model. A brief summary of the past, present and future neutrino experiments are also presented.

Keywords: Neutrino oscillations, anomalies, sterile neutrinos, hybrid texture, texture specific mass matrices.

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