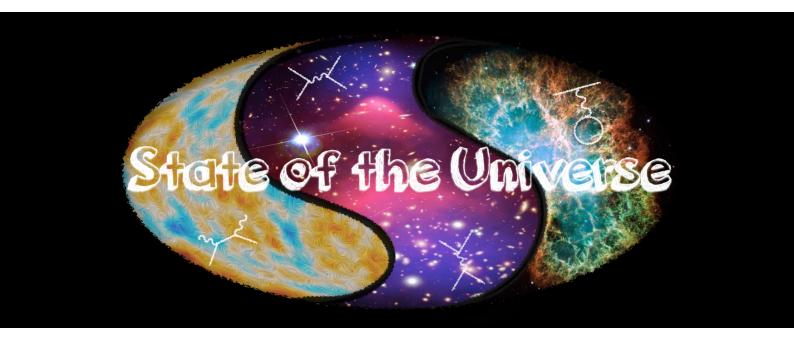
Department of Theoretical Physics



Bhavesh Chauhan Physical Research Laboratory, Ahemadabad

Tests of New Physics scenarios at Neutrino Telescopes

Friday, 5 April 2019, 11:30 Room A304

The observation of ultrahigh energy neutrinos by IceCube and ANITA have opened novel testing ground for trans TeV New Physics scenarios. Moreover, there is enough discrepancy and anomalies in the data to motivate extensions of the Standard Model. In this talk, I will explain the observed lack of 400-800 TeV neutrinos as a signature of self interacting sterile neutrino background. In the later half, I will provide a common framework for explaining the observed anomaly in R(D) and $R(D^*)$ and the seemingly impossible Earth emergent EeV shower observed by ANITA.



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