

2nd International Conference on

ASTROPHYSICS AND PARTICLE PHYSICS

November 13-15, 2017 San Antonio, USA

Neutrino mixing in matter at extremely high energies

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We have studied neutrino mixing at extreme high energy considering two flavor frameworks with matter effects. We analyze the atmospheric neutrino data within the simplest scheme of two neutrino oscillation. We consider as special case of matter density profile, which are relevant for neutrino oscillations. In particular, we compute to constrain a specific form of neutrino mass square difference and mixing in extreme high energy in matter. The dispersion relations for the neutrino mixing in neutrino oscillation in matter are discussed.

Biography

Bipin Singh Koranga is currently working in as Assistant Professor in Department of Physics, Kirori Mal College, University of Delhi, USA. He has extended his valuable service in field of Nuclear Physics, Neutrino Physics and Cosmology for several years and has been a recipient of many award and grants. His international experience includes various programs, contributions and participation in different countries for diverse fields of study. His research interests reflect in his wide range of publications in various national and international journals.

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