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Seminar of the theory group of APC

Mardi 6 Mars 2018, 14 :00
APC, 483 A - Malevitch
Domaines : hep-th

Titre : *Collective Neutrino Oscillations in Core-Collpase Supernovae and Neutron Star Mergers*

Orateur : **Sajad Abbar (APC, Université Paris Diderot)**

Résumé : *Neutrino oscillations in dense neutrino media is a very nonlinear and rich phenomenon. Such a dense neutrino gas could be found in very extreme astrophysical sites such as core collapse supernovae and neutron star mergers. Studying collective neutrino oscillations in the aforementioned settings is very essential since neutrinos could play a key role both in the dynamics and, in the nucleosynthesis. In this seminar, I will talk about our current understanding of this topic which has tremendously changed in the past few years.*