



ID de Contribution: 12

Type: **Non spécifié**

Neutrinos self interactions in supernovae

vendredi 7 mars 2008 09:10 (15 minutes)

A brief introduction to neutrino self-interaction effects in Supernovae (SN) is presented. In the extreme environment of core collapse SNe, the very large neutrino densities induce collective flavor transitions, different from the usual MSW neutrino oscillations in matter. In particular, self-interaction induced neutrino oscillations can be very important for inverted neutrino hierarchy mass, even for very small mixing angle, through the split of neutrino and antineutrino spectra.

Auteur principal: Dr MARRONE, Antonio (Dipartimento di Fisica, Univ. di Bari & INFN Bari)

Orateur: Dr MARRONE, Antonio (Dipartimento di Fisica, Univ. di Bari & INFN Bari)

Classification de Session: More neutrinos –dark matter, cosmic rays