Contribution ID: **21** Type: **not specified**

Thermal Evolution of Hybrid Stars modeled with an SU(3) non-linear Sigma Model

Saturday, 17 July 2010 11:00 (30 minutes)

The thermal evolution of hybrid stars is investigated. The structure and composition of these objects are obtained by means of an exteded hadronic and quark SU(3) non-linear sigma model. Within this model the degrees of freedom of the system change naturally from quarks to hadrons, allowing a more natural description of hybrid stars. In this work we will focus on the thermal evolution of these objects. Furthermore speciall attention will be given to the possible effects that spin-down may have on the cooling of these stars.

Primary author: Dr NEGREIROS, Rodrigo P. (Frankfurt Institute for Advanced Studies)

Co-authors: Prof. SCHRAMM, Stefan (CSC, FIAS, ITP); Dr DEXHEIMER, Veronica (Gettysburg College)

Presenter: Dr NEGREIROS, Rodrigo P. (Frankfurt Institute for Advanced Studies)

Session Classification: Session 8: Hybrid stars and r-process nucleosynthesis