



1st meeting: WORKING GROUP 1 “Astrophysics” Barcelona, September 23rd, 2014

The morning will consist of a general overview of the activities of the working group and presentations by the topic leaders, followed by short presentations of a specially relevant issue. The afternoon session is devoted to the special topic “The origin of magnetars and the SN/GRB/magnetar connection”

Tuesday September 23rd

09:30 – 10:00 J.A. Pons: Opening: “NewCompstar Working Groups: focus and activities.”

10:00 – 10:40 Wynn Ho (TL): “Cooling of NSs: recent advances and open questions”

10:40 – 11:00 Dima Yakovlev: “ Neutrino emission from magnetars. ”

11:00 – 11:30 **coffee break**

11:30 – 12:10 Tiziana di Salvo (TL): “Compact stars in binary systems: an overview.”

12:10 – 12:30 Luciano Burderi : “Timing of Accreting Millisecond Pulsars: open issues”

12:30 – 12:45 Micaela Oertel (SA) “Building consistent NS models with magnetic field dependent EoS”

12:45 – 13:15 Open discussion of the morning topics.

13:15 – 14:30 **lunch break**

14:30 – 15:15 Pablo Cerdá-Durán (TL): “Recent results about Magnetar flares and QPOs”

15:15 – 16:00 Niccolò Bucciantini (TL): “Core collapse SN and the SN/GRB connection”

16:00 – 16:30 **coffee break**

16:30 – 16:50 Martin Obergaulinger: “ Formation of PNSs with strong local magnetic fields”

16:50 – 17:10 Tsvi Piran: “ The SN/GRB/Magnetar connection (or lack of). ”

17:10 – 17:30 Friedel Thielemann / Roger Kaeppeli: “ Jets from fast rotating MHD-driven supernova explosions and their impact on r-process nucleosynthesis in galactic evolution”

17:30 – 18:30 Discussion: How are magnetars created ? What is the role of rotation and convection ? Are there observable differences between a magnetar and a low B NS birth ?