

NewCompStar COST Action: CompOSE and WG2+3 meetings

Institut de Physique Nucléaire de Lyon (IPNL), Nov. 2014

Scientific Program

Monday, 17th : CompOSE meeting

9:00-9:30	Stefan Typel (GSI Darmstadt)	Presentation of Compose
9:30-10:30		Hands-on session I: work on data tables, providing and testing
10:30-11:00		Coffee break
11:00-12:30		Hands-on session II: work on data tables, providing and testing
12:30-14:00		Lunch
14:00-14:30	Jérôme Novak (LUTh Meudon)	Presentation of the interface with Lorene
14:30-15:30		Hands-on session III: work on data tables, providing and testing
15:30-16:00		Coffee break
16:00-17:30		Discussion, including short presentations: Contribution by Fiorella Burgio and Jérôme Margueron on polynomial fits, by Stefan Typel on interpolation, by Thomas Klähn on phase transitions, and by Micaela Oertel on magnetic fields and two-fluid EoS

Tuesday, 18th : WG2 meeting « Nuclear physics »

09:00-09:10	Jérôme Margueron (IPN Lyon)	Introduction
09:10-09:40	Isaac Vidana (Univ. of Coimbra)	TL1: Nuclear equation of state for compact stars and supernovae
09:40-09:50	Constanca Providencia (Univ. of Coimbra)	The importance of including a realistic inner crust EOS
09:50-10:00	Adriana Raduta (IFIN Bucharest)	Equilibrium in the WS cell
10:10-10:20	François Aymard (Univ. of Caen)	Sub-saturation matter in Compact Stars: nuclear modelling in the framework of the Extended Thomas-Fermi theory
10:20-10:30	Mathias Hempel (Univ. of Basel)	Thermal Properties of Relativistic Supernova Equations of State
10:30-11:00		Coffee break
11:00-11:30	Isaac Vidana (Univ. of Coimbra)	TL1: Discussion session
11:30-12:00	Gergely Barnafoldi (WRCP Budapest)	TL2: Low energy QCD and super-dense matter
12:00-12:30	Gergely Barnafoldi	TL2: Discussion session
12:30-14:00		Lunch
14:00-14:30	Nicolas Chamel (IAA Bruxelles)	TL3: Superconductivity and superfluidity in compact stars
14:30-14:45	Armen Sedrakian (ITP Frankfurt)	New Aspects in Cooling of NS
14:45-15:15	Nicolas Chamel (IAA Bruxelles)	TL3: Discussion session
15:15-15:45		Coffee break
15:45-16:15	Laura Tolos (ICE Barcelona)	TL4: Transport phenomena and reaction rates for compact stars and supernovae
16:15-16:45	Laura Tolos (ICE Barcelona)	TL4: Discussion session
16:45-17:00	Jérôme Novak (LUTH Meudon)	Global neutron star models with magnetic field-dependent equation of state
17:00-18:00	Round table	General discussion on what the WG could do during the next 4 years

Wednesday, 19th : WG3 meeting « General Relativity »

09:00-09:10	Ian Jones (Univ. of Southampton)	Introduction
09:10-10:00	Bruno Giacomazzo (Univ. of Trento)	TL1: Numerical modelling in binary inspiral
10:00-10:50	Tanja Hinderer (Univ. of Maryland)	TL2: Influence of EoS on gravitational wave signal from inspiral
10:50-11:20		Coffee break
11:20-12:10	Andreas Bauswein (univ. Thessaloniki)	TL3: Binary inspiral electromagnetic counterparts/ejecta
12:10-12:30	Jérôme Novak (LUTh Meudon)	Phase-transition to hyperons in proto-neutron stars
12:30-14:00		Lunch
14:00-14:50	Leonardo Gualtieri (La Sapienza Roma)	TL4: Gravitational wave emission from individual stars
14:50-15:10	Wynn Ho (Univ. of Southampton)	X-ray observations and nuclear physics of gravitational wave-driven r-modes
15:10-15:30	Filippo Galeazzi (ITP Frankfurt)	On the properties of the hypermassive neutron star formed in the merger of spinning binaries
15:30-16:00		Coffee break
16:00-17:00	Round table	General discussion on what the WG could do during the next 4 years