

Observations & theory in the dynamics of neutron stars

Talks are 30+10 mins (invited) or 15+5 mins (PhDs)

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday
9:00		REGISTRATION				
9:20		<i>Ab initio many-body theory</i> Chair: Horowitz	<i>Energy density functionals</i> Chair: Holt	<i>Nuclear pastas & crust</i> Chair: Link	<i>QPOs/Magnetars</i> Chair: Andersson	<i>Neutron star dynamics</i> Chair: Glampedakis
		Aurel Bulgac <i>QMC of neutron matter and related systems</i>	P.-G. Reinhard <i>Stars and Skyrme forces</i>	Chuck Horowitz <i>Nuclear pastas</i>	Bennett Link <i>Torsional oscillations of a magnetar with a tangled magnetic field</i>	Evgeni Kolomeitsev <i>Viscosity of NS matter and mechanism of r-mode stability in young rapidly rotating pulsars</i>
10:00		Arianna Carbone <i>Green's function approach to nuclear and neutron matter with chiral forces</i>	Anthea Fantina <i>EoSs of dense matter: nuclear-matter properties and neutron-star structure</i>	Dmitry Kobyakov <i>Effective shear modulus of the crust of neutron stars and white dwarfs</i>	Michael Gabler <i>QPOs in SGR giant flares: first steps towards neutron star seismology</i>	Riccardo Ciolfi <i>The 'time-reversal' scenario for short γ-ray bursts and its constraints on NS properties</i>
10:40		COFFEE	COFFEE	COFFEE	COFFEE	COFFEE
11:00		Kai Hebeler <i>Neutron-rich matter from chiral EFT interactions</i>	Michael Forbes <i>Real-time methods for superfluid hydrodynamics</i>	Chris Pethick <i>Induced interactions in neutron star crusts</i>	Samuel Lander <i>Magnetically-driven neutron-star crustquakes</i>	Wolfgang Kastaun <i>Structure and dynamics of HMNS created in BNS mergers</i>
11:40		Christian Drischler <i>Towards full N3LO calculations of asymmetric nuclear matter</i> ----- Corbinian Wellenhofer <i>Thermodynamics of the symmetry energy and the EoS of asymmetric nuclear matter</i>	Informal discussion	Matt Caplan <i>Nuclear pasta: new structures and nucleosynthesis</i> ----- Roshan Sellahewa <i>Isovector & pairing properties of the Gogny interaction</i>	Vanessa Graber <i>Magnetic field evolution in superconducting neutron stars</i> ----- Konstantinos Palapanidis <i>Numerical equilibria of superconducting neutron stars with entrainment</i>	Open discussions <i>Future Directions, Needs and Synergies</i>
12:20		LUNCH	LUNCH	LUNCH	LUNCH	LUNCH & END
14:00		<i>Neutron star dynamics</i> Chair: Kolomeitsev	<i>Pulsar glitches</i> Chair: Chamel	<i><u>ECT* colloquium talk</u></i> Nils Andersson <i>Neutron stars as fundamental physics laboratories</i>	COST NewCompstar Discussion Session <i>Topic 1</i>	
		T�rence Delsate <i>Dynamical tidal interactions in compact objects</i>	Ali Alpar <i>Modelling pulsar glitches & post-glitch response</i>		COST NewCompstar Discussion Session <i>Topic 2</i>	
14:40	Jan Steinhoff <i>Effective theory for neutron star multipoles and universal relations</i>	Anthony van Eysden <i>Spin-up of ideal superfluids and plasmas and observational consequences in neutron stars</i>			COST NewCompstar Discussion Session <i>Topic 3</i>	
15:20		COFFEE	COFFEE	COFFEE	COFFEE	
15:40		<i>Ab initio methods</i> Chair: Bulgac	Kostas Glampedakis <i>Persistent crust-core spin lag in neutron stars</i>	Small group brainstorming session <i>Challenges & priorities in the description of neutron star dynamics</i>	COST NewCompstar Discussion Session <i>Topic 3</i>	
		Arnau Rios <i>Neutron matter pairing beyond BCS</i>				
16:20		Hugo Arellano <i>Role of di-nucleon bound states in BHF s-p spectra at subsaturation densities</i>	Stefano Seveso <i>Advances in models of pulsar glitches</i> ----- Danai Antonopoulou <i>Post-glitch recoveries as probes into NS superfluidity</i>			
17:00		END	END	END	END	
20:00	Pizzeria La Mostra	Buffet dinner @ ECT*	La Baracca	TBA	TBA	Pizzeria La Mostra