

## OUTLINE OF THE PROGRAMME

	Monday (9)	Tuesday (10)	Wednesday (11)	Thursday (12)	Friday (13)
8 <sup>30</sup> - 9 <sup>00</sup> 9 <sup>00</sup> - 10 <sup>00</sup> 10 <sup>00</sup> - 11 <sup>00</sup>	EM Registration & open M. Baubök (NICER) W. Becker eROSITA	GW C. Pankow (LIGO) R. Gold (GW&NS)	EoS Sz Borsányi (LQCD) J. Wagg (SKA)	EoS Exp M. Csanád (BES) F. Weber	<b>WG1-2-3 meeting</b> P. Pizzochero (Chair) P. Cerda-Duran WG1 L. Tolos WG2 S. Typel (CompOSE) T. Hinderer WG3 <b>WG1-2-3 Discussion</b>
11 <sup>00</sup> -11 <sup>30</sup>	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break
11 <sup>30</sup> -12 <sup>00</sup> 12 <sup>00</sup> -12 <sup>30</sup>	Supernovae A. Raduta U.R.M.E. Geppert	Gravity/EoS G. Baym	EoS S. Furosawa H. Togashi	EoS D. Blaschke A. Cummings	<b>WG1-2-3 meeting</b> G. Prodi Summary, Adjourn
12 <sup>30</sup> -14 <sup>00</sup>	Lunch break	Lunch break	Lunch break	Lunch break, Photo	Lunch break
14 <sup>00</sup> -14 <sup>30</sup> 14 <sup>30</sup> -15 <sup>00</sup> 15 <sup>00</sup> -15 <sup>30</sup>	NS& Magnetar M. Limongi, H. Grigorian, B. Haskell	Gravity Opening by Jochen M. Bejger L. Somlai (ET)	EoS V. Graber D. Alvarez Castillo A. Haber	EoS A. Sedrakian S. Schmalzbauer P. Pizzochero	
15 <sup>30</sup> -16 <sup>00</sup>	Coffee Break	Coffee Break	Coffee Break	Coffee Break	
16 <sup>00</sup> -16 <sup>30</sup> 16 <sup>30</sup> -17 <sup>00</sup> 17 <sup>00</sup> -17 <sup>30</sup>	P. Haensel P. Cerda Duran M. Caplan	G.G. Barnaföldi <b>Group discussion</b>	P. Kovács <b>Group discussion</b>	<b>Informal discussions and in the evening the Conference Dinner</b>	
18 <sup>00</sup> -21 <sup>00</sup>	Reception				

### List of speakers:

#### ELECTROMAGNETIC (3) Monday morning (Chair G. Baym)

Michi Baubök: Neutron Stars by NICER experiment  
 Jeff Wagg: The Square Kilometre Array  
 Werner Becker: eROSITA - Status and Scientific Prospects for Neutron Star Research

#### SN & NEUTRON STAR COOLING (7) Monday morning & afternoon (F. Weber)

Marco Limongi: Evolution and Explosion of Massive Stars  
 Adriana Raduta: Neutron star cooling  
 Hovik Grigorian: Cooling of Neutron stars  
 Shun Furusawa: Multi-nucleus equations of state and nuclear weak interactions in core-collapse SN  
 Matthew Caplan: Simulating Phase Separation in the Accreted Ocean  
 Pawel Haensel: Realistic nucleon forces and X-ray observations of neutron stars

#### EQUATION OF STATE (11)

Gordon Baym: Phases of the Cold QCD Matter  
 David Blaschke: A novel class of EoS for neutron star interiors with quark deconfinement  
 Armen Sedrakian: Compact stars with QCD phase transitions  
 Fridolin Weber: The Structure of Dense Matter in Neutron Stars  
 Péter Kovács: Phase diagram and thermodynamics from the VepQM model:  
 how to improve the approximation?  
 Hajime Togashi: Nuclear equation of state with realistic nuclear forces  
 David Alvarez Castillo: Supporting the existence of the QCD CEP by compact star observations  
 Szabolcs Borsányi: Lattice QCD perspectives of the QCD Phase diagram  
 Sebastian Schmalzbauer: Pionic stars  
 Mate Csanád: The Beam Energy Scan programme  
 Gergely Gábor Barnaföldi: The effect of Quantum Fluctuations in Compact Star Observables

#### MAGNETARS & NEUTRON STAR GLITCHES (7)

Andrew Cumming: The heat capacity and neutrino emissivity of the NS core from accreting transients  
 Brynmor Haskell: r-modes in neutron stars  
 Vanessa Graber: Physics of superfluid neutron stars  
 Alexander Haber: Color-magnetic flux tubes in neutron stars  
 Ulrich R.M.E. Geppert: Magneto-thermal evolution of neutron stars  
 Pablo Cerda-Duran: Towards neutron star asteroseismology  
 Pierre Pizzochero: Probing neutron star properties with large pulsar glitches

GRAVITATIONAL WAVES & Detectors (5) (Chair: GG Barnaföldi, )

Chris Pankow: Gravitational-wave Astronomy and Astrophysics with LIGO and Virgo  
Roman Gold: Numerical modeling of neutron stars in General Relativity: Status report from Frankfurt  
Michal Bejger: Testing relativity with gravitational waves  
Giovanni Prodi: Overview of future interferometric GW detectors  
Laszlo Abel Somlai: ET why and where

WORKING GROUP TALKS (5) (Chair: P. Pizzochero)

Pierre Pizzochero: Chair/openings  
Laura Tolos: WG2 Summary  
Tanja Hinderer: WG3 Summary  
Pablo Cerda-Duran: WG1 Summary  
Stefan Typel: ComOSE Summary