

## Session Program

4-9 Dec 2015



## 28th Texas Symposium on Relativistic Astrophysics

### ***01 - Numerical relativity***

International Conference Centre Geneva  
17 Rue de Varembé, 1211 Geneva

## Tuesday 8 December

14:00

### 01 - Numerical relativity

**Session** |

**Location:** International Conference Centre Geneva, Level 2, Room 14, 17 Rue de Varembe, 1211 Geneva |

**Convener:** Thomas Baumgarte

14:00–14:21

#### Merger of binary neutron stars: Gravitational waves and mass ejection

**Speaker**

Masaru Shibata

14:21–14:42

#### Magnetar formation from the merger of binary neutron stars

**Speaker**

Bruno Giacomazzo

14:42–15:03

#### Effect of Equation of State on Magnetized Binary Neutron Star Mergers

**Speaker**

Mr Takumu Kawamura

15:03–15:24

#### Rotation profile of neutron star merger remnants

**Speaker**

Wolfgang Kastaun

15:24–15:45

#### A Hamiltonian approach to relativistic fluid dynamics and binary inspiral

**Speaker**

Charalampos Markakis

15:45

16:15

### 01 - Numerical relativity

**Session** |

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**Convener:** Thomas Baumgarte

16:15–16:35

#### CAFE: A relativistic Magnetohydrodynamics code

**Speaker**

Alejandro Cruz Osorio

16:35–16:55

#### Simulating the start of inflation from inhomogeneous initial conditions

**Speaker**

Dr William East

16:55–17:15

#### Critical Collapse of Radiation Fluids: Deviations from Spherical Symmetry

**Speaker**

Thomas Baumgarte

17:15-17:35

**Evolution of a self-gravitating spherical massless scalar field on compactified constant mean curvature hypersurfaces**

**Speaker**

Manuel David Morales

17:35-17:55

**Black hole mimickers**

**Speaker**

Mrs Daniela Perez

17:55-18:15

**The nature of trapping horizons in collapses forming black holes**

**Speaker**

Dr Ilia Musco

18:15-18:18

**Asymptotic evolution of Robinson-Trautman spacetimes**

**Speaker**

Alberto Saa

18:18-18:45

**break**

18:45