

## Session Program

13-18 Dec 2015



## 28th Texas Symposium on Relativistic Astrophysics

### ***10 - Cosmic magnetic fields***

International Conference Centre Geneva  
17 Rue de Varembé, 1211 Geneva

## Tuesday 15 December

14:00

### 10 - Cosmic magnetic fields: Probes

**Session** |

**Location:** International Conference Centre Geneva, Level 2, Room 13, 17 Rue de Varembe, 1211 Geneva |

**Convener:** Tina Kahniashvili

14:00–14:25

#### Cosmic magnetic fields and ways of probing them

**Speaker**

Prof. Philipp Kronberg

14:25–14:45

#### Galactic magnetic fields

**Speaker**

Andrew Fletcher

14:45–15:05

#### Probing the Intergalactic Magnetic Fields by means of high-energy pair halos around extreme blazars

**Speaker**

PAOLO DA VELA

15:05–15:25

#### Lower limits on the magnetic field strength in the early universe

**Speaker**

Prof. Reinhard Schlickeiser

15:25–15:45

#### The Plasma Physics of TeV Blazars

**Speaker**

Philip Chang

15:45

16:15

### 10 - Cosmic magnetic fields: Probes

**Session** | **Location:** International Conference Centre Geneva, Level 2, Room 13 | **Convener:** Tina Kahniashvili

16:15–16:35

#### Constraints on Primordial Magnetic Fields from Planck 2015

**Speaker**

Daniela Paoletti

16:35–16:55

#### Prospects of constraining primordial magnetic fields using their effects on CMB, LSS and ionization history

**Speaker**

Dr Kerstin Kunze

16:55–17:15

#### Primordial Magnetism in CMB

**Speaker**

Dr Levon Pogosian

17:15–17:18

#### Parity odd CMB power spectrum via helical magnetic field.

**Speaker**

Hector Javier Hortua

18:45

17:18-18:45

**gap**

## Wednesday 16 December

14:00

### 10 - Cosmic magnetic fields: Origin, evolution and signatures

**Session** | **Location:** International Conference Centre Geneva, Level -1, Room 16 | **Convener:** Tina Kahniashvili

14:00–14:21

#### Relaxing the limits on inflationary magnetogenesis

##### Speaker

Christos Tsagas

14:21–14:42

#### Relativistic chiral magnetohydrodynamics and evolution of cosmological magnetic fields

##### Speakers

Dr Alexey Boyarsky, Oleg Ruchayskiy

14:42–15:03

#### First numerical simulations of the chiral MHD dynamo effect

##### Speaker

Jennifer Schober

15:03–15:24

#### Evolution of primordial magnetic fields

##### Speaker

Axel Brandenburg

15:24–15:45

#### MHD Turbulence and Particles

##### Speaker

Andrey Beresnyak

15:45

16:15

### 10 - Cosmic magnetic fields: origin, evolution and signatures

**Session** | **Location:** International Conference Centre Geneva, Level -1, Room 16 | **Convener:** Tina Kahniashvili

16:15–16:35

#### Novel Approaches for the Analysis of Extragalactic Magnetic Fields

##### Speaker

Dr Andrey Saveliev

16:35–16:55

#### Self-similar magnetic, turbulent and thermal energy evolution in massive galaxy clusters

##### Speaker

Dr Francesco Miniati

16:55–17:15

#### The Chiral Magnetic Effect and its Role in Astrophysics and Cosmology

##### Speaker

Guenter Sigl

17:15–17:35

#### Galactic magnetic field and uncon-ventional cosmic ray propagation

##### Speaker

Dario Grasso

18:45

17:35-18:45 **gap**