

## Session Program

4-9 Dec 2015



## 28th Texas Symposium on Relativistic Astrophysics

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

International Conference Centre Geneva  
17 Rue de Varembé, 1211 Geneva

# Sunday 6 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**

# Monday 7 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 unconventional cosmic ray propagation

#### Speaker

Dario Grasso

17:35-17:55

**Observing primordial helical magnetic fields?**

**Speaker**

Michael Kachelriess

17:55-18:45

**gap**

18:45