

## 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**