



# COSMO-15, the 19th annual International Conference on Particle Physics and Cosmology

## Monday 07 September 2015

### Plenary - Main Hall (09:00-10:25)

-Conveners: Carlos Martins

time	[id] title	presenter
09:00	[0] Welcome and introduction	ROSZKOWSKI, Leszek
09:10	[207] Opening address	WROCHNA, Grzegorz
09:15	[1] Recent advances in astrophysics of cosmic rays and gamma-ray astronomy	MOSKALENKO, Igor
09:50	[2] How to learn to love the BOSS (Baryon Oscillations Spectroscopic Survey)	HO, Shirley

### Plenary - Main Hall (10:55-12:40)

-Conveners: Jun'ichi Yokoyama

time	[id] title	presenter
10:55	[3] The Mysterious Neutrinos - Clues from Astrophysics and Cosmology	BEACOM, John
11:30	[4] Leptogenesis and Flavour Models	KING, Stephen
12:05	[5] Vacuum (meta?)stability and Higgs inflation	SHAPOSHNIKOV, Mikhail

### Plenary - Main Hall (14:00-15:45)

-Conveners: John Beacom

time	[id] title	presenter
14:00	[6] Perspectives of discoveries in intergalactic space	VIEL, Matteo
14:35	[7] Numerical simulations of large scale structure: overview and outlook	SIJACKI, Debora
15:10	[8] Overview of WIMP Dark Matter	FREESE, Katherine

### Plenary - Main Hall (16:15-18:00)

-Conveners: Stephen King

time	[id] title	presenter
16:15	[9] Beyond the thermal WIMP dark matter	CHOI, Ki-Young
16:50	[10] Direct Searches for WIMP Dark Matter	SCHUMANN, Marc
17:25	[11] The battlegrounds of gamma-ray detection of dark matter: the Galactic Center and dwarf galaxies	SANCHEZ-CONDÉ, Miguel

## Tuesday 08 September 2015

### Plenary - Main Hall (09:00-10:10)

-Conveners: **Matts Roos**

time	[id] title	presenter
09:00	[12] Indirect Searches for Particle Dark Matter	BRINGMANN, Torsten
09:35	[13] Viscous dark matter	TETRADIS, Nikolaos

### Plenary - Main Hall (10:40-12:30)

-Conveners: **Eric Linder**

time	[id] title	presenter
10:40	[14] Recent CMB results from Planck	CHALLINOR, Anthony
11:15	[15] Large scale structure of the Universe: the angular power spectrum and bispectrum	DURRER, Ruth
11:50	[16] General Relativity: its creation, classical tests and new effects in rotating systems	MALEC, Edward

# Thursday 10 September 2015

## Plenary - Main Hall (09:00-10:10)

-Conveners: Ruth Gregory

time	[id] title	presenter
09:00	[17] Theoretical approaches to the Dark Energy paradigm	POLARSKI, David
09:35	[18] Quantum break time for cosmological constant	DVALI, Gia

## Plenary - Main Hall (10:40-12:30)

-Conveners: Fernando Quevedo

time	[id] title	presenter
10:40	[19] Aligned Axionic Inflation	NILLES, Hans-Peter
11:15	[20] Cosmological Collider Physics	MALDACENA, Juan
11:50	[21] Area Law and Second Law in Cosmology	BOUSSO, Raphael

# Friday 11 September 2015

## Plenary - Main Hall (09:00-10:10)

**-Conveners: Hans-Peter Nilles**

time	[id] title	presenter
09:00	[22] Dark Energy at the Crossroads	HUTERER, Dragan
09:35	[30] Creation of the Inflationary Universe	YOKOYAMA, Jun'ichi

## Plenary - Main Hall (10:40-12:40)

**-Conveners: Katherine Freese**

time	[id] title	presenter
10:40	[23] Realisations of de Sitter space and inflation in string compactifications	QUEVEDO, Fernando
11:15	[26] Searches for new physics at the LHC	SOFFI, Livia
11:50	[25] From precision spectroscopy to fundamental cosmology: current and future tests of the stability of fundamental couplings	MARTINS, Carlos
12:25	[31] Outlook	ROSZKOWSKI, Leszek