



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

## Monday, September 7, 2015

### Plenary - Main Hall (9:00 AM - 10:25 AM)

-Conveners: Carlos Martins

time	[id] title	presenter
9:00 AM	[0] Welcome and introduction	ROSZKOWSKI, Leszek
9:10 AM	[207] Opening address	WROCHNA, Grzegorz
9:15 AM	[1] Recent advances in astrophysics of cosmic rays and gamma-ray astronomy	MOSKALENKO, Igor
9:50 AM	[2] How to learn to love the BOSS (Baryon Oscillations Spectroscopic Survey)	HO, Shirley

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

-Conveners: Jun'ichi Yokoyama

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

### Plenary - Main Hall (2:00 PM - 3:45 PM)

-Conveners: John Beacom

time	[id] title	presenter
2:00 PM	[6] Perspectives of discoveries in intergalactic space	VIEL, Matteo
2:35 PM	[7] Numerical simulations of large scale structure: overview and outlook	SIJACKI, Debora
3:10 PM	[8] Overview of WIMP Dark Matter	FREESE, Katherine

### Plenary - Main Hall (4:15 PM - 6:00 PM)

-Conveners: Stephen King

time	[id] title	presenter
4:15 PM	[9] Beyond the thermal WIMP dark matter	CHOI, Ki-Young
4:50 PM	[10] Direct Searches for WIMP Dark Matter	SCHUMANN, Marc
5:25 PM	[11] The battlegrounds of gamma-ray detection of dark matter: the Galactic Center and dwarf galaxies	SANCHEZ-CONDÉ, Miguel

## Tuesday, September 8, 2015

### Plenary - Main Hall (9:00 AM - 10:10 AM)

-Conveners: **Matts Roos**

time	[id] title	presenter
9:00 AM	[12] Indirect Searches for Particle Dark Matter	BRINGMANN, Torsten
9:35 AM	[13] Viscous dark matter	TETRADIS, Nikolaos

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

-Conveners: **Eric Linder**

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

# Thursday, September 10, 2015

## Plenary - Main Hall (9:00 AM - 10:10 AM)

-Conveners: Ruth Gregory

time	[id] title	presenter
9:00 AM	[17] Theoretical approaches to the Dark Energy paradigm	POLARSKI, David
9:35 AM	[18] Quantum break time for cosmological constant	DVALI, Gia

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

-Conveners: Fernando Quevedo

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

## Friday, September 11, 2015

### Plenary - Main Hall (9:00 AM - 10:10 AM)

-Conveners: Hans-Peter Nilles

time	[id] title	presenter
9:00 AM	[22] Dark Energy at the Crossroads	HUTERER, Dragan
9:35 AM	[30] Creation of the Inflationary Universe	YOKOYAMA, Jun'ichi

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

-Conveners: Katherine Freese

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