

PPC2011 -- PROGRAMME

Main Auditorium

TUESDAY JUNE 14

9.00-9.30 Welcome address by Sergio Bertolucci, CERN's Director for Research and Computing

DARK MATTER THEORY & THE LHC CONNECTION

9.30-10.00 Weiner Neal The Era of Data

10.00-10.30 Covi Laura Supersymmetric Dark Matter

10.30-11.00 Heinemann Beate Latest ATLAS physics results

11.00-11.30 **COFFEE BREAK**

DARK MATTER INDIRECT DETECTION

11.30-12.00 Serpico Pasquale DM indirect detection: theoretical aspects

12.00-12.30 Gustafsson Michael On FERMI results interpretation (and other gamma ray)

12.30-1.00 Sparvoli Roberta Dark matter searches by charged cosmic rays detection in space

1.00-2.30 **LUNCH**

INFLATION

2.30-3.00 Senatore Leonardo Effective theory of inflation

3.00-3.30 Burgess Cliff String inflation

3.30-4.00 Bezrukov Fedor Higgs inflation

4.00-4.30 **COFFEE BREAK**

DARK MATTER

4.30-5.00 Frenk Carlos Testing the Lambda CDM model on galaxy scales

5.00-5.30 Pietroni Massimo Modeling halo clustering in resummed perturbation theories

7.00 pm COCKTAIL

WEDNESDAY JUNE 15

DARK MATTER THEORY & THE LHC CONNECTION

9.30-10.00 Hambye Thomas Phenomenological aspects of the dark matter stability origin

10.00-10.30 Bortoletto Daniela Latest CMS physics results

10.30-11.00 Wang Liantao Dark matter at colliders

11.00-11.30 **COFFEE BREAK**

DARK MATTER DIRECT DETECTION

11.30-12.00 Schwetz Thomas DM direct detection: theoretical aspects

12.00-12.30 Aprile Elena XENON

12.30-1.00 Gerbier Gilles Edelweiss

1.00-2.30 **LUNCH**

BARYOGENESIS

2.30-3.00 Garbrecht Bjoern Leptogenesis: CTP, CPT & Flavour

3.00-3.30 Konstandin Thomas Baryogenesis at the EW phase transition

3.30-4.00 Chung Daniel Electroweak baryogenesis

4.00-4.30 **COFFEE BREAK**

DARK MATTER

4.30-5.00 Sandick Pearl Dark Matter concentrations in the galaxy

5.00-5.30 Dutta Bhaskar Dark Matter at colliders

THURSDAY JUNE 16			
CMB			
9.30-10.00	Liguori	Michele	What could we learn from high-order statistics/non-gaussianity in the CMB?
10.00-10.30	Aghanim	Nabila	Current results from PLANCK
10.30-11.00	Holder	Gil	Current results from SPT
11.00-11.30	COFFEE BREAK		
EARLY UNIVERSE			
11.30-12.00	Brandenberger	Robert	Signatures of topological defects
12.00-12.30	Figueroa	Daniel	(p)Reheating the Universe
12.30-1.00	Subramanian	Kandu	Primordial Magnetic Fields
1.00-2.30	LUNCH		
EARLY UNIVERSE & DARK MATTER			
2.30-3.00	Fernandez-Martinez	Enrique	Neutrino Probes of the Nature of Light Dark Matter
3.00-3.30	Watson	Scott	Non-thermal dark Matter
3.30-4.00	West	Stephen	The Dark matter / baryogenesis connection
4.00-4.30	COFFEE BREAK		
4.30-5.00	Redondo	Javier	The meV mass frontier in axion physics
5.00-5.30	Ruchayskiy	Oleg	New physics without new energy scale: experimental bounds and predictions.
FRIDAY JUNE 17			
LARGE SCALE STRUCTURES			
9.30-10.00	Peacock	John	Probing gravity and dark energy with galaxy surveys
10.00-10.30	Linder	Eric	Observational signatures of Dark Energy
10.30-11.00	Bridle	Sarah	DES
11.00-11.30	COFFEE BREAK		
LARGE SCALE STRUCTURES			
11.30-12.00	Sheth	Ravi	The Halo Grail: Clusters and clustering in cosmology
12.00-12.30	Scoccimaro	Roman	Modeling non linear structure formation
12.30-1.00	Pritchard	Jonathan	Prospects for 21 cm surveys
1.00-2.30	LUNCH		
LSS & NEUTRINO COSMOLOGY			
2.30-3.00	Crocce	Martin	Clustering in Photometric Surveys : a window for redshift distortions
3.00-3.30	Wong	Yvonne	Neutrino Cosmology
3.30-4.00	Viel	Matteo	Neutrinos in large scale structure simulations
4.00-4.30	COFFEE BREAK		
NEUTRINOS & DM in the South Pole			
4.30-5.00	Mocioiu	Irina	Atmospheric neutrinos in ice
5.00-5.30	Seo	Seon-Hee	DM-Ice
SATURDAY JUNE 18			
NEUTRINOS + Dark energy			
9.30-10.00	Raffelt	Georg	Supernovae neutrinos
10.00-10.30	Friedland	Alex	Neutrino flavor oscillations in supernovae
10.30-11.00	Sibiryakov	Sergey	Technically natural dark energy from Lorentz breaking
11.00-11.30	COFFEE BREAK		
MODIFIED GRAVITY			
11.30-12.00	Nicolis	Alberto	Progress in modified gravity
12.00-12.30	Dvali	Gia	UV-completion by classicalization and implications for particle physics & cosmology
12.30-1.00	Horava	Petr	Quantum Gravity with Anisotropic Scaling

PPC2011 -- PROGRAMME OVERVIEW

	Tuesday	Wednesday	Thursday	Friday	Saturday
9h30-10h	Weiner	Hambye	Liguori	Peacock	Raffelt
10h-10h30	Covi	CMS, Bortoletto	Aghanim	Linder	Friedland
10h30-11h	ATLAS, Heinemann	Wang	Holder	Bridle	Sibiryakov
	coffee break				
11h30-12h	Serpico	Schwetz	Brandenberger	Sheth	Nicolis
12h-12h30	Gustafsson	Aprile	Figueroa	Scoccimaro	Dvali
12h30-13h	Sparvoli	Gerbier	Subramanian	Pritchard	Horava
	lunch break				
14h30-15h	Senatore	Garbrecht	Fernandez-Martinez	Crocce	
15h-15h30	Burgess	Konstandin	Watson	Wong	
15h30-16h	Bezrukov	Chung	West	Viel	
	coffee break				
16h30-17h	Frenk	Sandick	Redondo	Mocioiu	
17h-17h30	Pietroni	Dutta	Ruchayskiy	Seo	
19h-xx	Cocktail CERN (19h-21h)				