

Session Program

4-11 Jul 2012



ICHEP2012

Room 216 - Particle Astrophysics and Cosmology -TR11

Melbourne Convention and Exhibition Centre
Melbourne Australia

Saturday 7 July

09:00

Room 216 - Particle Astrophysics and Cosmology -TR11

Session | **Location:** Melbourne Convention and Exhibition Centre, Room 216, Melbourne Australia

09:00–09:15 **Pangogenesis: visible and dark matter from a common origin**

Speaker

Dr Kalliopi Petraki

09:15–09:30 **The Affleck-Dine dynamics of pangogenesis**

Speaker

Dr Benedict von Harling

09:30–09:45 **Dynamical Dark Matter: A Theoretical Overview**

Speaker

Prof. Keith Dienes

09:45–10:00 **Dynamical Dark Matter: An Explicit Model**

Speaker

Dr Brooks Thomas

10:00–10:15 **Dark matter search results from the COUPP 4 kg bubble chamber**

Speaker

Dr Russell Neilson

10:15–10:30 **Low-Mass Dark Matter Searches with Sub-keV Germanium Detectors**

Speaker

Dr Hau-Bin Li

10:30–10:50 **Status and Prospects for SuperCDMS**

Speaker

Dr Lauren Hsu

10:50–11:00 **Refreshment Break**

11:00–11:15

Mirror dark matter interpretations of DAMA, CoGeNT and CRESST-II experiments

Speaker

Dr Robert Foot

11:15–11:30

Universal behavior in the scattering of heavy, weakly interacting dark matter on nuclear targets

Speaker

Prof. Richard Hill

11:30–11:45 **Light neutralino dark matter in MSSM**

Speaker

Dr Nazila Mahmoudi

11:45-12:00

Dark Matter Relic and Its Implications on the Underground Laboratory and LHC Search**Speaker**

Dr Ho-Chin Tsai

12:00-12:15

Detecting Dark Matter at the LHC with Electroweak Bremsstrahlung**Speaker**

Mr Galea Ahmad

12:15-12:30

Signatures of Dark Matter Annihilation in the Cosmic Microwave Background**Speaker**

Dr Tracy Slatyer

12:30-12:45

The status of the cosmic e^+/e^- anomaly**Speaker**

Prof. Csaba Balazs

12:45-13:05

Dark Matter Searches with the Fermi Large Area Telescope**Speaker**

Aldo Morselli

13:05-13:45

Lunch Break

13:45-14:00

A metric theory of gravity with torsion in extra-dimension**Speaker**

Prof. Kameshwar Wali

14:00-14:15

Measurements of High Energy Particle Interaction Properties with the Pierre Auger Cosmic Ray Observatory**Speaker**

Dr Jose Bellido

14:15-14:30

Ultra-High Energy Neutrinos at the Pierre Auger Observatory**Speaker**

Prof. Roger Clay

14:30-14:45

Results from the Telescope Array Experiment**Speaker**

Dr Hisao Tokuno

14:45-15:00

Selected results from the ARGO-YBJ experiment**Speaker**

Dr Paolo Camarri

15:00-15:15

The LHCf experiment to verify UHECR interactions at LHC

Speaker

Prof. Yoshitaka Ito

15:15-15:30**Longitudinal Shower Development Studies Near 8 TeV.****Speaker**

Dr Paul Doll

15:30-15:45**Gamma Ray Source Studies Using Muon Tracking.****Speaker**

Dr Paul Doll

15:45-16:00**Refreshment Break****16:00-16:15****Generalized Galileons for Particle Physics and Cosmology****Speaker**

Prof. Mark Trodden

16:15-16:30**Matter Inflation****Speaker**

Prof. Stefan Antusch

16:30-16:45**STUDY OF THE $2\text{H}(\alpha,\gamma)^6\text{Li}$ REACTION PRODUCING ^6Li IN STANDARD BIG BANG NUCLEOSYNTHESIS****Speaker**

Dr Carlo Gustavino

16:45-17:00**CMB Polarization Results from the QUIET Experiment****Speaker**

Dr Masaya Hasegawa

17:00-17:15**Cosmology and particle physics with POLARBEAR****Speaker**

Dr Masaya Hasegawa

17:15-17:30**The Fermi Large Area Telescope at 4: the Surprising Gamma-Ray Sky.****Speaker**

Dr Eric Charles

17:30-17:50**Status of the AMS-02 detector after one year of operation on the International Space Station****Speaker**

Prof. Veronica Bindi

18:00