

Program

Sunday, September 27

18:00-20:00 [Registration desk at Hotel Campus](#)

19:00-20:00 [Welcome Reception at Hotel Campus](#)

Monday, September 28

8:30-9:30 [Registration desk at Hotel Campus](#)

9:30-10:30 **Graham Ross**

Introduction to the Standard Model of Particle Physics and Beyond

10:30-11:30 **Julien Lesgourgues**

Introduction to the Standard Cosmological Model

11:30-12:00 **Coffee Break**

12:00-13:00 **Carlos Frenk**

Large Scale Structure

13:00-14:30 **Lunch**

14:30-15:30 **Marco Cirelli**

Dark Matter

15:30-16:30 **Pierre Binetruy**

Dark Energy

16:30-17:00 **Coffee Break**

Inflation 1

17:00-17:15 **Michal Artymowski**

Entropy and curvature perturbations from the vector field

17:15-17:30 **Mindaugas Karciauskas**

The Curvature Perturbation from Vector Fields: the Vector Curvaton Case

17:30-17:45

17:45-18:00 **Olli Taanila**

The Subdominant Curvaton

short talks

Tuesday, September 29

9:30-10:30 **Graham Ross**

Introduction to the Standard Model of Particle Physics and Beyond

10:30-11:30 **Julien Lesgourgues**

Introduction to the Standard Cosmological Model

11:30-12:00 **Coffee Break**

12:00-13:00 **Carlos Frenk**

Large Scale Structure

13:00-14:30 **Lunch**

14:30-15:30 **Marco Cirelli**

Dark Matter

15:30-16:30 **Pierre Binetruy**

Dark Energy

16:30-17:00 **Coffee Break**

Dark Matter 1

17:00-17:15 **Ju Min Kim**

One-loop Corrections to the Mixed Bino-Higgsino Dark Matter Relic Density

17:15-17:30 **Grigoris Panotopoulos**

Bound states between dark matter particles, and emission of gravitational radiation

17:30-17:45 **Eun-Kyung Park**

Neutralino Dark Matter and Collider Signal in an SO(10) model with Two-step Intermediate Scale Symmetry Breaking

17:45-18:00 **David Tran**

Cosmic-Ray Signatures of Dark Matter Decay

short talks

Wednesday, 30 September

9:30-10:30 **Seguey Petcov**
Neutrino Physics

10:30-11:30 **Alejandro Ibarra**
Leptogenesis

11:30-12:00 **Coffee Break**

12:00-13:00 **Seguey Petcov**
Neutrino Physics

13:00-14:30 **Lunch**

Session A / Inflation 2

short talks

14:30-14:45 **Shaun Hotchkiss**
CMB non-gaussianity from multiple inflation

14:45-15:00 **Jaques Wagstaff**
A Concrete Vector Curvaton Model and its Distinct Observational Signatures

15:00-15:15 **Krzysztof Turzynski**
Isocurvature-induced red tilt of the inflationary power spectrum

15:15-15:30 **Vittoria Demozzi**
Magnetic fields from inflation?

Session B /Dark Matter 2

short talks

15:30-15:45 **Bogna Kubik-Deriaz**
A Dark Matter candidate from Lorentz Invariance in 6D

15:45-16:00 **Nicola Rossi**
Mirror Matter, Mirror Gravity and Galactic Rotational Curves

16:00-16:15 **Rose Lerner**
Thermal relic dark matter as the inflation

16:15-16:30 **Paolo Panci**
Constraints on Dark Matter Annihilations from Galaxy

16:30-17:00 **Coffee Break**

Session C /Others 1

short talks

17:00-17:15 **Nikolaos Brouzakis**
Light Propagation and Spherical Inhomogeneities

17:15-17:30 **Alejandro Bohé**
Gravitational wave bursts from fundamental strings

17:30-17:45 **Anna Kostouki**
Point-like brane defects in string Universes and modifications of Gravity at galactic scales

17:45-18:00 **George Leontaris**
D-brane inspired fermion mass textures

Thursday, 1 October

9:30-10:30 **Alejandro Ibarra**
Leptogenesis

Session A / Dark Energy 1

short talks

10:30-10:45 **Elisabetta Majerotto**
Perturbations in interacting dark energy models

10:45-11:00 **Wessel Valkenburg**
The CMB in a Swiss-Cheese Universe

11:00-11:15 **Nadathur Seshadri**
Fitting void models to observational data

11:15-11:30 **Arman Shafieloo**
TBA

11:30-12:00 **Coffee Break**

Session B / Cosmic Rays+Leptogenesis

short talks

12:00-12:15 **Daniele Gaggero**
Possible interpretations of the CR electron+positron spectrum measured by Fermi-L

12:15-12:30 **Philipp Mertsch**
Testing astrophysical models for the PAMELA positron excess with cosmic ray nucl

12:30-12:45 **Timur Delahaye**
Can a nearby clump explain the recent cosmic ray data ?

12:45-13:00

13:00-14:30 **Lunch**

Free Afternoon

20:00 **Social Dinner**
La Fitora Restaurant

23:00 **School Bus to return to Bellaterra**

Friday, 2 October9:30-10:30 **Sergio Pastor**

Cosmic Rays

10:30-11:30 **Diego Torres**

High Energy Astrophysics

11:30-12:00

Coffee Break

Session A / Inflation 312:00-12:15 **Philip Roland Jarnhus**

TBA

12:15-12:30 **Konstantinos Dimopoulos**

Vector Curvaton without instabilities

12:30-12:45 **Marcin Badziak**

Low scale of SUSY breaking in string inflationary models

12:45-13:00 **Alicia Diago**

AMS-02 Experiment.

13:00-14:30

Lunch

Session B / Dark Energy 2 + mixed14:30-14:45 **Paul Hunt**

Reconstruction of the Primordial Power Spectrum Using Multiple Data Sets

14:45-15:00 **Eugeny Babichev**Relativistic stars in $f(R)$ gravity15:00-15:15 **Sawas Nesseris**

Genetic Algorithms and Supernovae Type Ia Analysis

15:15-15:30 **Jeremie Llodra-Pérez**

Dark Matter and LHC phenomenology of a 6D model on the real projective plane

Session C / Dark Matter 315:30-15:45 **Narendra Sahu**

Absolute Electron and Positron Fluxes from PAMELA/Fermi as Indirect Detection of Dark Matter

15:45-16:00 **Daniel Albornoz-Vasquez**

Light Dark Matter and Colliders

16:00-16:15 **Andrea Ferrantelli**

Gravitino dark matter and bounds on the reheating temperature from theories of gauge mediation with metastable vacua

16:15-16:30 **Christopher McCabe**

Neutrino Masses and Mixing Angles from Dark Matter

16:30-17:00

Coffee Break

Session D/ Others17:00-17:15 **Katarzyna Zuleta**

Black hole localization on a brane in the presence of bulk scalars

17:15-17:30 **Ioannis Dalianis**

Cosmological vacuum selection and metastable susy breaking

17:30-17:45 **Roberta Armillis**

Anomaly poles in U1 extensions of the Standard Model

17:45-18:00 **Tomasz Jelinski**, Non-minimal gauge mediation

short talks

short talks

short talks

short talks

Saturday, October 3 - Annual UniverseNet Network Meeting9:00-9:30 **S. Sarkar**

Coordinator's report on network activities

9:30-10:00 **Nikos Brouzakis, Michal Deak, Vittoria Demozzi, Andrzej Hryczuk**

Introductions by newly appointed Young Researcher

Reports from the Conveners on the scientific tasks:

10:00-10:20 **M. Quiros**

Origin of matter

10:20-10:40 **M. Drees**

Origin of dark matter

10:40-11:00 **A. Masiero (for P. Binetruy)**

Origin of dark energy

11:00-11:30

Coffee Break

11:30-11:50 **S. Sarkar (for G. Sigl)**

Origin of cosmic rays

11:50-12:10 **J. McDonald (for D. Lyth)**

Origin of structure

12:10-12:30 **TBA (for S.-J. Rey)**

Origin of space-time

12:30-12:45 **S. Sarkar**

FP7 application, Next year's meeting, Vote of thanks



_AT

ei