

# **Physics at the LHC and beyond**

**Tuesday 29 September 2015 - Friday 02 October 2015**

**DESY Hamburg**  
**Programme**

# Table of contents

Wednesday 30 September 2015 .....	1
Thursday 01 October 2015 .....	2

## Wednesday 30 September 2015

### Cosmology & Astroparticle Physics: Dark Matter I - Main Auditorium (14:00-15:45)

time	title	presenter
14:00	Relic density of wino-like dark matter in the MSSM	DIGHERA, Francesco
14:15	A novel approach to derive halo-independent limits on dark matter properties	WILD, Sebastian
14:30	Unitarity and Bound-State Formation Constraints on Dark Matter	SHEPHERD, William
14:45	Dark Matter Self-Interactions via Collisionless Shocks in Cluster Mergers	SPETHMANN, Christian
15:00	Self-interacting dark matter and cosmology of a light scalar mediator	VASKONEN, Ville
15:15	Minimal Asymmetric Dark Matter	KRAUSS, Martin
15:30	Gauge fields as dark matter	GROSS, Christian

### Cosmology & Astroparticle Physics: Dark Matter II - Main Auditorium (16:05-17:55)

time	title	presenter
16:05	Partially Composite Dark Matter in Composite Higgs Model	ASANO, Masaki
16:20	Dark Matter and Collider Phenomenology of Minimal Gauged $U(1)_B$ and $U(1)_L$ Models	PATEL, Hiren
16:35	Dark matter from the 10 of $SO(10)$	BOUCENNA, Sofiane
16:50	Boosted Dark Matter in IceCube and at the Galactic Center	WANG, Xiaoping
17:05	Alternative Propagation Models for Cosmic Positrons	REINERT, Annika
17:20	Light from Dark Matter	SMIRNOV, Juri
17:35	Dark matter decays from a non-minimal coupling to gravity	INGENHÜTT, Sebastian

# Thursday 01 October 2015

## **Cosmology & Astroparticle Physics: Baryo/Leptogenesis, Neutrinos - Seminar room 2** **(14:00-15:45)**

time	title	presenter
14:00	mu-e Conversion for Models with Doubly Charged Scalars	GEIB, Tanja
14:15	Sterile Neutrino Dark Matter from Scalar Decay: General Features, Subleties and Related Issues	TOTZAUER, Maximilian
14:30	Non-thermal cosmic Neutrino Background	TRAUTNER, Andreas
14:45	A Simple Model for Low Scale Baryogenesis and Neutron-Antineutron Oscillation	DEV, Bhupal
15:00	Order $g^2$ susceptibilities in the symmetric phase of the Standard Model	SANGEL, Marc
15:15	Affleck-Dine baryogenesis after D-term inflation and a solution to the baryon-DM coincidence problem	YAMADA, Masaki
15:30	Testability of Heavy Neutral Leptons as origin of the Baryon Asymmetry of the Universe	EIJIMA, Shintaro

## **Cosmology & Astroparticle Physics: Cosmology, Inflation - Seminar room 2 (16:05-17:55)**

time	title	presenter
16:05	Dynamical generation of the Peccei-Quinn scale in gauge mediation	OPFERKUCH, Toby
16:20	f(R), String Theory, and the CMB beyond first order	BROY, Benedict
16:35	WIMP inflation from scalar singlets	KAHLHOEFER, Felix
16:50	On the Soft Limit of the Large Scale Structure Power Spectrum: UV Dependence	SAGUNSKI, Laura
17:05	Cosmological aspects of the next-to-minimal supersymmetric standard model	SAIKAWA, Ken'ichi
17:20	Renormalization freedom in de Sitter spacetime	DRESTI, Simone
17:35	Cosmic Inflation as a probe to Dark Matter properties	TENKANEN, Tommi