

Origin of Mass 2017

Cosmology and Dark Matter

May 1 - May 4, 2017

Selected Key Speakers

Simeon Bird (John Hopkins)

Ed Copeland (Nottingham)

Mathias Garny (Munich)

Steen Hannestad (Aarhus)

Dan Hooper (Chicago)

Alex Kehagias (CERN)

Nemanja Kaloper (UC Davis)

John March-Russell (Oxford)

Sabino Matarrese (Padova)

Stefano Profumo (Santa-Cruz)

Antonio Riotto (Geneva)

Claudia de Rham (Imperial)

Andrew Tolley (Imperial)

Licia Verde (Barcelona)

Stephen West (Royal Holloway)



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CP³-Origins

University of Southern Denmark

Organizing Committee

Mads T. Frandsen (CP³-Origins)

Chris Kouvaris (CP³-Origins)

Martin S. Sloth (CP³-Origins)

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CP³ Origins
Cosmology & Particle Physics

	Monday	Tuesday	Wednesday	Thursday
	Martin S. Sloth	Thomas Rytov	Emiliano Molinaro	Chris Kouvaris
8:30	Registration			
8:45	<i>Opening Remarks</i>			
9:00	Ed Copeland <i>Dark energy and screening mechanisms</i>	Licia Verde <i>Neutrino masses and cosmology</i>	Stefano Profumo <i>A Dark Needle in a Bright Haystack</i>	James Bullock <i>Astrophysical Constraints on the Nature of Dark Matter</i>
10:00	Coffee Break			
10:30	Steen Hannestad <i>Neutrinos in cosmology – current status and future prospects</i>	Simeon Bird <i>Did LIGO Detect Dark Matter?</i>	Stephen West <i>Nuclear Dark Matter</i>	Dan Hooper <i>The Status of Indirect Searches for Dark Matter</i>
11:30	Claudia de Rham <i>Graviton Mass Bounds</i>	John March-Russell <i>Dark Matter from 10^{-22} eV to 10^{67} eV</i>	Sabino Matarrese <i>Primordial non-Gaussianity: a status report</i>	Nemanja Kaloper <i>4π in the Sky</i>
12:30	Lunch			
	Claudia Hagedorn	Tommi Alanne	Michele Della Morte	Mads T Frandsen
14:00	Matthias Garny <i>Dark Matter clustering: new tools from perturbation theory</i>	Amjad Ashoorioon Eugenio Del Nobile	Andrew Tolley <i>Positivity Constraints on Effective Field Theories for Cosmology</i>	Genevieve Belanger <i>Probes of dark matter at the LHC</i>
15:00	Coffee Break		City Walk	Coffee Break
15:30	Alessandro Melchiorri <i>Anomalies and tensions in extended LCDM</i>	Parallel Session 1		Matti Heikinheimo
16:30	Sami Nurmi			Parallel Session 2
	Subodh Patil			

All plenary talks are in O100. - The conference dinner is Tuesday at 19:00.

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	Dark Matter 1	Cosmology 1
	(O98)	(O100)
15:30	Chianese <i>DM interpretation of the IceCube diffuse neutrino flux</i>	Ferreira <i>Thermalization in Axion Inflation</i>
15:50	Chu <i>Split light Dark Matter</i>	Sandora <i>Gravity from Causality, Lorentz Invariance from Gravity</i>
16:10	Di Valentino <i>Cosmological axions</i>	Uhleman <i>Large-scale clustering with counts-in-cells statistics</i>
16:30		Ivanov <i>Counts in cells and non-perturbative effects in structure formation</i>

	Dark Matter 2	Cosmology 2
	(O98)	(O100)
16:00	Laletin <i>An argument against conventional dark matter explanation of the cosmic positron anomaly</i>	Zatta <i>Higgs Dynamics During And After Inflation</i>
16:20	Racco <i>Consistency of simplified models for dark matter</i>	Van der Woude <i>Non-perturbative effects in large scale structure</i>
16:40	Friedrich <i>Scalar field DM in hybrid approach</i>	Shkerin <i>Electroweak vacuum stability in the Higgs-Dilaton theory</i>