

PONT d'Avignon 2017

Progress on Old and New Themes in Cosmology

4th Edition in the **PONT** series



IPhT, CEA/Saclay
 APC, Paris
 LPTHE Jussieu, Paris
 CPT Marseille
 DESY Hamburg

Organizing Committee:
 Philippe Brax,
 Chiara Caprini,
 Marco Cirelli,
 Christian Marinoni,
 Geraldine Servant,
 Nicola Tamanini

welcome!

The Universe...

Monday 24 April 2017

1 - Gravitational Waves and related - Chambre du Trésorier (09:00-12:30)

time	[id]	title	presenter
09:00	[89]	TBA	ALLEN, Bruce
09:45	[90]	LISA and the low-frequency gravitational universe	DANZMANN, Kersten
10:30		Coffee Break	
11:00	[91]	TBA	HAMANN, Mark
11:45	[92]	Black holes in the gravitational wave cosmic landscape	COLPI, Monica

Afternoon session - Chambre du Trésorier (14:30-18:30)

time	[id]	title	presenter
14:30	[109]	Gravitational Astrometry and Local Cosmology with Gaia	CROSTA, Mariateresa
14:53	[145]	Gaia, scalar-tensor theories of gravity, and its cosmological implications	VECCHIATO, Alberto
15:15	[78]	A New Age for Quintessential Inflation	DIMOPOULOS, Konstantinos
15:30	[128]	Cosmic Inflation from Yang-Mills Instantons	KOH, Seoktae
15:45	[73]	Minimal but non-minimal inflation and electroweak symmetry breaking	RACIOPPI, Antonio
16:00		Coffee Break	
16:30	[125]	Higgs Dynamics During And After Inflation	ZATTA, Marco
16:45	[81]	SMASH	BALLESTEROS, Guillermo
17:00	[134]	Cosmology with Goldstone bosons: compact and non-compact cosets	CROON, Djuna
17:15	[88]	Unitary NEC Violation in P(X) cosmologies	MELVILLE, Scott
17:30	[140]	Waves in Scalar-Tensor Theories	HAGALA, Robert
17:45	[117]	Gravitational waves from the QCD chiral phase transition before the electroweak symmetry breaking	SHIMADA, Kengo
18:00	[129]	Superradiance in rotating stars and implications for dark sectors	YU, Tien-Tien
18:15	[143]	Piercing the Vainshtein screen with gravitational waves	BELTRAN JIMENEZ, Jose

Tuesday 25 April 2017

2 - Modified Gravity and Dark Energy - Chambre du Trésorier (09:00-12:30)

time	[id]	title	presenter
09:00	[93]	TBA	KOYAMA, Kazuya
09:45	[94]	TBA	SILVESTRI, Alessandra
10:30		Coffee Break	
11:00	[95]	TBA	EALET, Anne
11:45	[96]	TBA	GUZZO, Luigi

Afternoon session - Chambre du Trésorier (14:30-18:30)

time	[id]	title	presenter
14:30	[111]	TBA	MCCULLOUGH, Matthew
15:15	[112]	BBN - new ideas for old problems	PRADLER, Josef
16:00		Coffee Break	
16:30	[131]	Effective Theory of (Higher-Order) Scalar Tensor Theories	VERNIZZI, Filippo
16:45	[138]	Priors on the dark energy equation of state and modified growth parameters from general scalar field theories	POGOSIAN, Levon
17:00	[78]	The diagnostic of Horndeski theories with the effective field theory of dark energy	PERENON, Louis
17:15	[139]	Constraining "Non Orthodox" Symmetrons	ZUCCA, Alex
17:30	[127]	Effective theory of dark energy and kinetic matter mixing	MICHELE, Manuella
17:45	[132]	Generalized Einstein-Aether as a dark energy fluid	TRINH, Damien
18:00	[120]	Applications of the EoS formalism to f(R) models	PACE, Francesco
18:15	[141]	Effective Field Theory of Dark Energy in the Effective Field Theory of Large-Scale Structure	LEWANDOWSKI, Matthew

 **Upload your talk on the INDICO!**
(come see us if you have problems)

The Universe...

Wednesday 26 April 2017

3 - The future of CMB and LSS - Chambre du Trésorier (09:00-12:30)

time	[id] title	presenter
09:00	[97] TBA	CHLUBA, Jens
09:45	[98] TBA	HAMILTON, Jean-Christophe
10:30	Coffee Break	
11:00	[113] Measurements of the Local Value of the Hubble Constant	SCOLNIC, Daniel
11:45	[136] Dark Energy Survey (DES) - results and prospects for future	NICHOL, Bob

3 - The future of CMB and LSS - Chambre du Trésorier (14:30-15:15)

time	[id] title	presenter
14:30	[100] Theoretical studies of the Large Scale Structure: results and prospects	DESJACQUES, Vincent

Afternoon session - Chambre du Trésorier (15:15-18:30)

time	[id] title	presenter
15:15	[114] Neutrinos in cosmology, from CMB to Lyman-alpha forests	PALANQUE-DELABROUILLE, Nathalie
16:00	Coffee Break	
16:30	[82] How well can future CMB missions constrain inflation and reheating?	VENNIN, Vincent
16:45	[122] Optimal and fast Wiener filtering of CMB maps without preconditioning	KODI RAMANAH, Doogesh
17:00	[144] CMB Anomalies From Next Generation Polarization Measurements	MUKHERJEE, Suvodip
17:15	[87] Cosmology with the Euclid galaxy bispectrum	YANKELEVICH, Victoria
17:30	[119] Fully non-linear statistical analysis of Large scale structure data for wide and deep surveys	LAVALUX, Guilhem
17:45	[123] Consistency relations for large-scale structures: applications to the integrated Sachs-Wolfe effect and the kinematic Sunyaev-Zeldovich effect	ALBERTO RIZZO, Luca
18:00	[88] The Homogeneity Scale of the Universe	DELIS, Pierros
18:15	[121] Numerical tests on renormalised non-linear galaxy bias	WERNER, Kim

Thursday 27 April 2017

4 - Numerical simulations - Chambre du Trésorier (09:00-12:30)

time	[id] title	presenter
09:00	[101] TBA	MACCIOI, Andrea
09:45	[103] Fundamental physics with the intergalactic medium	VIEL, Matteo
10:30	Coffee Break	
11:00	[102] TBA	BRUNI, Marco
11:45	[115] TBA	BALDI, Marco

4 - Numerical simulations - Chambre du Trésorier (14:30-16:00)

time	[id] title	presenter
14:30	[104] TBA	LLINARES, Claudio

Afternoon session - Chambre du Trésorier (15:15-18:30)

time	[id] title	presenter
15:15	[84] Dynamically constrained model of Galactic subhalos and impact on dark matter searches	STREF, Marin
15:30	[85] A unique probe of dark matter in the core of M87 with the Event Horizon Telescope	LACROIX, Thomas
15:45	[116] Cosmological signatures of electromagnetically decaying dark matter	POULIN, Vivian
16:00	Coffee Break	
16:30	[133] Primordial Black Holes and Dark Matter from Axion Inflation	MUIA, Francesco
16:45	[130] The Impact of pair flips on redshift-space distortions	KURUVILLA, Joseph
17:00	[135] Evaporation of the de Sitter horizon	MARKKANEN, Tommi
17:15	[74] Braneworld cosmology and holography	BILIC, Noven
17:30	[71] Gravitational birefringence of light	SCHUCKER, Thomas

Friday 28 April 2017

5 - Dark Matter - Chambre du Trésorier (09:00-12:30)

time	[id] title	presenter
09:00	[106] TBA	FIGUEROA-FELICIANO, Eneclali
09:45	[107] TBA	CALORE, Francesca
10:30	Coffee Break	
11:00	[108] TBA	PANI, Paolo
11:45	[105] TBA	KUSENKO, Alexander

 **Upload your talk on the INDICO!**
(come see us if you have problems)

... and everything else

■ **Welcome cocktail **monday** at **18h45****

(Salle des Gardes, Palais des Papes)

■ **Banquet on **Thursday** at **8pm****

■ **Discounted **tickets** to visit the **Palais**:**

(small) reduction with your conference badge

Opening hours: 9 am - 7 pm

■ ****Reductions** at several restaurants and shops**

List available at the reception desk

... and everything else

■ Popular science talks **Tuesday at 19h30**

(Cellier Benoît XII, Palais des Papes)

■ Art exhibition ***Chimie de l'éther***

'O8 He2'

Paintings by Berta SESÉ
inspired by cosmology

In the Salle de Gardes
Monday-Friday



More practical info

■ **Rooms open: 8:45-13:00 14:15-end of session**

Locked during lunch break (you can leave bags here)

■ **Wireless: PONT_2017**

password: 20170424

■ **Red badge = help**



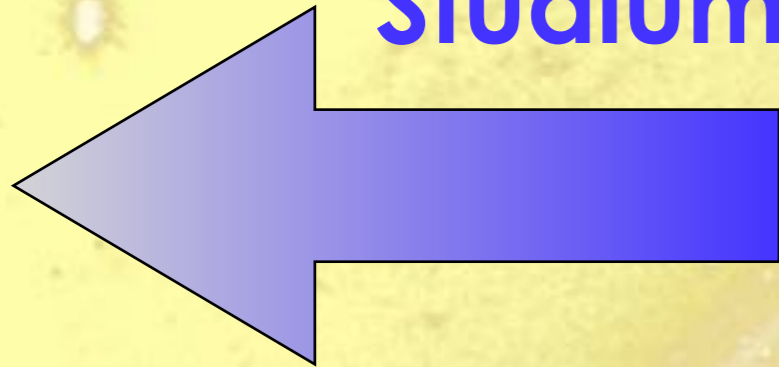
More practical info

- Small chambers are at your disposal
(for secret conclaves)

8:45-13:00

14:15-end

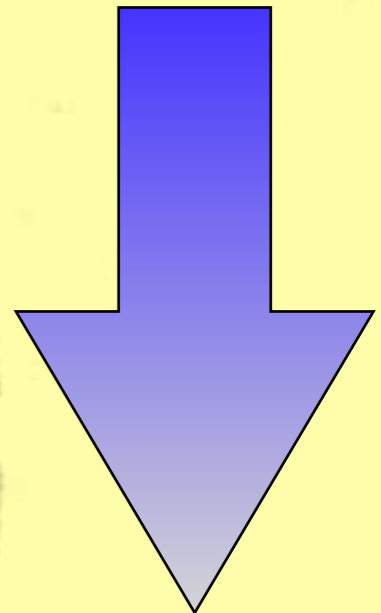
Studium



Salle des Gardes



Salle des Gardes



PONT d'Avignon 2017

■ **Speakers** (especially afternoon):
please upload your talk

(or come see us during the breaks)



PONT d'Avignon 2017

Progress on Old and New Themes in Cosmology



Enjoy!