

# INSTITUT D'ETUDES SCIENTIFIQUES DE CARGESE

## Cargèse International Workshop 2019

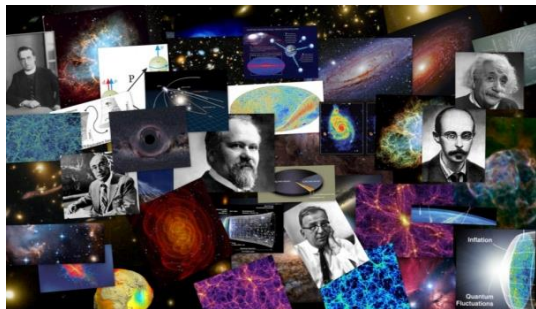
### Hot Topics in Modern Cosmology : SW13

May 6th – 10th, 2019

#### Web site

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Hot Topics in  
Modern Cosmology  
Spontaneous Workshop XIII

Spontaneous Workshop (SW) brings together specialists on recent insights in Particle Physics, Astrophysics and Cosmology. The aim is to stimulate debate on common topics in views of providing us with innovating ideas on emerging problems. The workshop's organization is based on an optimal number of concise presentations and with enough space for discussions in order to favour interactions among participants. Postdocs and PhD students are encouraged to attend.

#### Main topics will include

- Dark Energy, Inflation, Baryon and Lepton number violation
- CP violation - LHC and Dark Matter - Astroparticle Physics
- Neutrino Cosmology - Baryogenesis and Leptogenesis - cosmic Antimatter
- Gravitational Waves of cosmological and astrophysical origin
- Primordial black holes as a part of Dark Matter
- PBH in binary systems and their detection through gravitational radiation
- Cosmological parameters - Anomalies in CMB - Inhomogeneous Cosmology
- Cosmological Large Scale Structures - Magnetic Fields in the Universe
- Non-local UV completion of gravity - QFT in Curved Spacetime - Massive Gravity
- Numerical Relativity — Black Hole formation — Modified Gravity Inflation and curvature singularities in modified gravity, including its non-local variants

#### Scientific Committee

Zurab Berezhiani (Univ. L'Aquila & ETH Zurich CH), Denis Comelli (INFN Ferrara IT), Cédric Deffayet (IAP Paris FR), Alexander Dolgov (NSU, Univ. & INFN Ferrara IT), Antoine Folacci (Univ. Corse FR), Mario Novello (CBPF/ICRA Rio de Janeiro BR), Joe Silk (IAP Paris FR & Univ. Oxford GB), Alexei Starobinsky (LITP Moscow), Roland Triay (CPT Aix Marseille Univ FR)

#### Organization Committee

Zurab Berezhiani (Univ. L'Aquila & ETH Zurich CH), Denis Comelli (INFN Ferrara IT), Alexander Dolgov (INSU, Univ. & INFN Ferrara IT), A. Folacci (Univ. Corse, FR), R. Triay (CPT, Aix Marseille Univ.FR)

#### Application and registration

[http://www.cpt.univ-mrs.fr/~cosmo/SW\\_2019/SW13.html](http://www.cpt.univ-mrs.fr/~cosmo/SW_2019/SW13.html)

<http://195.220.145.251/fr/participation/inscriptions-en-ligne/acces-enregistrement/idecole4/1004/>

Contact :

Deadline Application : 2019, 19 April

Registration Fees : 240€

Aix\*Marseille  
université



PROGRAMME ACCES

CULLETTIVITÀ DI CORSICA  
COLLETTIVITÀ DE CORSE