

# COSMO'19

RWTH Aachen University  
2-6 September, Germany

<https://indico.cern.ch/e/cosmo19>

## Confirmed Speakers

Ana Achucarro	Tanja Hinderer	Alkistis Pourtsidou
Iason Baldes	Yonit Hochberg	Chanda Prescod-Weinstein
Chris Byrnes	Manoj Kaplinghat	Pat Scott
Erminia Calabrese	Will Kinney	Matteo Viel
Emanuele Castorina	Lloyd Knox	Walter Winter
Chihway Chang	Sachiko Kuroyanagi	Gong-Bo Zhao
David Curtin	Ranjan Laha	Miguel Zumalacarregui
Valerie Domcke	Mariangela Lisanti	
Lavinia Heisenberg	Vivian Poulin	

## Session Conveners

### Early Universe:

Subodh Patil, Lorenzo Sorbo

### Gravitational Waves and Black Holes:

Daniel Figueroa, Teruaki Suyama

### Dark Matter and Astroparticle:

Marco Cirelli, Francis-Yan Cyr-Racine

### CMB, Universe expansion and thermal history:

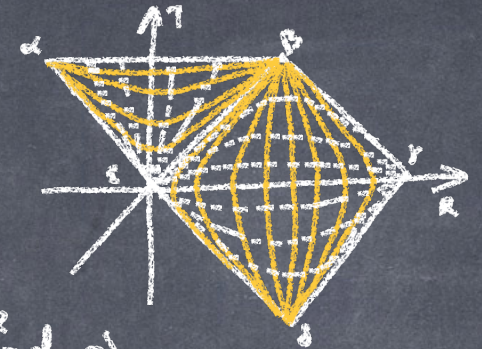
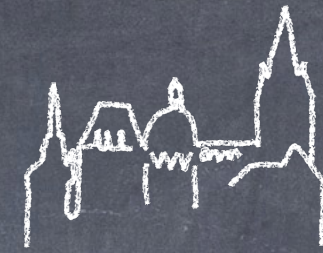
Vera Gluscevic, Antony Lewis

### Large Scale Structure:

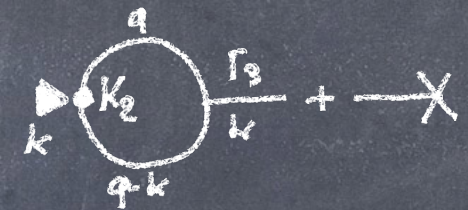
Dragan Huterer, Elena Sellentin

### Modified Gravity and Dark Energy:

Claudia De Rham, Alessandra Silvestri



$$ds^2 = \frac{4R^2}{r} e^{-\frac{r}{R}} (dv^2 - dr^2)$$



$$G_{\mu\nu} = 8\pi G T_{\mu\nu}$$

$$\langle \delta\rho\delta\phi\rangle \sim \delta s$$



## International Steering Committee

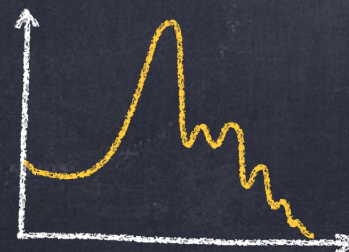
V. Barger	R. Gregory	J. Lesgourgues	L. Roszkowski (Chair)
D. Baumann	F. Halzen	A. Linde	G. Senjanovic
J. Beacom	M. Hindmarsh	D. Lyth	J. Yokoyama
K. Choi	D. Huterer	C. Martins	H. Zhan
J. Ellis	S. Katsanevas	H.-P. Nilles	
K. Enqvist	J. Kim	A. Riotto	
E. Gates	R. Kolb	M. Roos	

## Organising Committee

- C. Fidler
- D. C. Hooper
- F. Kahlhoefer
- M. Krämer
- J. Lesgourgues (Chair)
- P. Mertsch
- J. Torrado



$$\vec{E} = -4\pi G \frac{\vec{p}}{k^2}$$



$$P(k) = \lim_{q_0 \rightarrow -\infty} \frac{2q_0 P(q_0)}{q_0}$$