



University of Crete
Department of Physics



FORTH
INSTITUTE OF ASTROPHYSICS



2020 Nick Kylafis Lecture

Joint Physics & IA/FORTH Colloquium

Thursday, 3 June 2021 | 17:00 – 18:00, Online Colloquium

The Future of Cosmology

Prof. Joseph Silk

*Institut d'Astrophysique de Paris & Sorbonne University, France –
The Johns Hopkins University, USA - University of Oxford, UK*

ABSTRACT

One of the greatest challenges in cosmology is understanding the origin of the structure of the universe. The cosmic microwave background and large-scale surveys of galaxies have provided unique windows for probing cosmology and its inflationary origin. But where do we go next? Future experiments are planned with the next generation of observatories that will increase the current precision of cosmological measurements by an order of magnitude. However, we need to do far better if there is to be a guaranteed science return that will definitively probe our cosmic origins. I shall argue that the ultimate goal for our future strategy must be astronomy from lunar-based telescopes.

Join via ZOOM at:

<https://zoom.us/j/94731259779?pwd=U0swQXdsaGcremNEUXNFN0FCb3R2QT09>