



University of Crete  
Department of Physics



**FORTH**  
INSTITUTE OF ASTROPHYSICS



## *Joint Physics & IA/FORTH Colloquium*

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Thursday, 26 September 2019 | 17:00 – 18:00, Seminar Room, 3rd floor

### **Cosmology with the world's leading dark energy experiments**

**Dr. Alkistis Pourtsidou**

*School of Physics and Astronomy, Queen Mary University of London, UK*

#### **ABSTRACT**

*I will introduce two of the most important experiments of the next decade, namely the Euclid satellite mission and the Square Kilometre Array. I will talk about cosmology with Euclid and the SKA, with special emphasis on the innovative neutral hydrogen intensity mapping technique that can turn SKA Phase 1 and its MeerKAT precursor into precision cosmology machines. I will also talk about various synergies between radio and optical surveys.*