

# Università degli Studi di Trieste

## Dipartimento di Fisica

### Seminario

## Alessio Notari

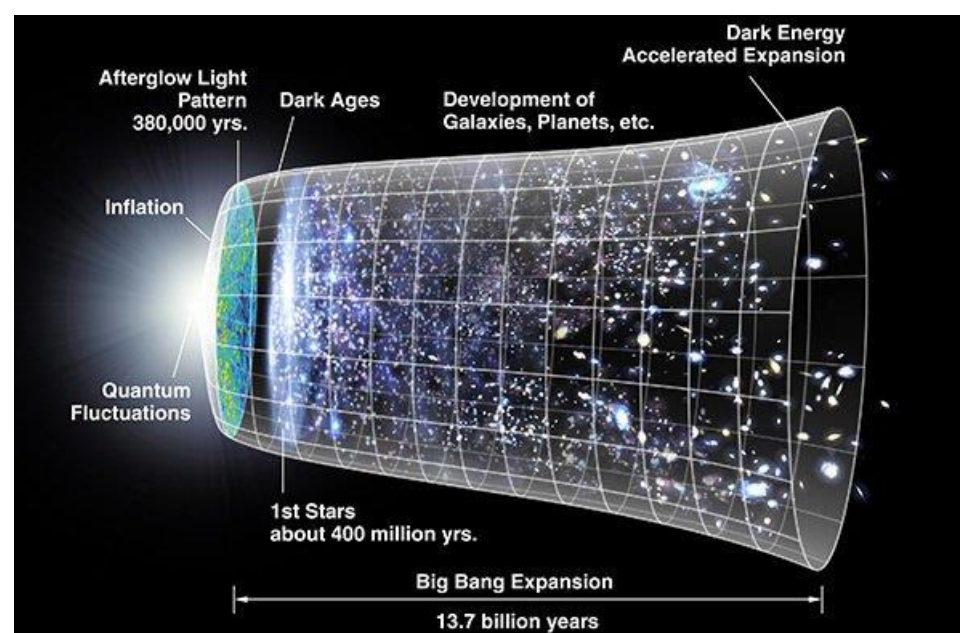
Departament de Física Quàntica i Astrofísica, Institut de Ciències del Cosmos (ICCUB),  
Universitat de Barcelona

Thursday, April 19, 4.00 PM – Lecture Room A, F building, Dip. di Fisica – via Valerio 2 – Trieste

## Cosmology and Fundamental Physics: detecting Relics from the Early Universe via CMB and Gravitational Waves.



In this talk I will show how Cosmology can lead to discoveries of new fundamental physics, focusing on two concrete examples. First, I will show how CMB measurements can reveal the existence of new particles, such as the QCD Axion. Then I will review the case of Inflation, showing how it leads to the spectrum of the relic CMB and how it could lead to new predictions, such as extra relic Gravitational Waves or new signatures from nontrivial dissipative dynamics.



Organizzazione a cura di: R. Valandro, E. Vesselli

dipartimento di  
TRIESTE **fisica**



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TRIESTE  
Istituto Nazionale di Fisica Nucleare  
Sezione di Trieste

**Everyone interested in the topic is welcome to attend**

Informazioni: [seminari@ts.infn.it](mailto:seminari@ts.infn.it)