



# PHYSIKALISCHES KOLLOQUIUM

des Fachbereichs Physik  
der Johann Wolfgang Goethe-Universität Frankfurt

Mittwoch, den 03.05.2017, 16 Uhr c.t.  
Großer Hörsaal, Raum \_0.111,  
Max-von-Laue-Str. 1



**Prof. Dr. Carlo Baccigalupi**

Head of Astrophysics, SISSA  
Trieste, Italy

***"Records of Primordial Gravitational Waves  
in the Cosmic Microwave Background:  
Status, Challenges and Prospects for present  
and future B-mode CMB experiments"***

We review the mechanisms leading to Gravitational Waves imprint in the B-modes of Cosmic Microwave Background Polarization Anisotropy. We discuss the current status of measurements, and the main challenges towards future precision measurements, focusing on the diffuse polarization emission from our own Galaxy. Finally, we outline the path ahead in terms of operating and planned CMB B-mode experiments.

Die Dozenten der Physik

local host: Prof. Dr. Luciano Rezzolla, rezzolla@itp.uni-frankfurt.de