



Contribution ID: 32

Type: **not specified**

## Exploring the Early Universe with the Cosmic Microwave Background

*Monday 20 August 2018 14:30 (30 minutes)*

Even though the Cosmic Microwave Background (CMB) is a photograph of the Universe when it was about 400000 years old and had a temperature of about 0.3eV, it contains information about a much earlier phase of the Universe, most notably inflation.

In my talk I shall describe the amplified quantum fluctuations which we observe in the CMB. I shall discuss what we already know and what we might learn from future observations. I also argue why we are convinced that a mechanism similar to inflation is at the origin of the observed spectrum of fluctuation.

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**Session Classification:** Early universe cosmology