



Contribution ID: 33

Type: **not specified**

## On the quantum origin of a small positive cosmological constant

*Wednesday 9 December 2020 16:10 (20 minutes)*

We show that Dark Matter consisting of ultralight bosons in a Bose-Einstein condensate induces, via its quantum potential, a small positive cosmological constant which is close to the observed value. This explains why the densities of Dark Matter and Dark Energy are approximately equal.

[NOTE ADDED MC 2020.03.03 if abstract is selected, talk scheduled for 27, 28 or 29 April (i.e. Monday, Tuesday or Wednesday, and not on Thursday the 30th April)]

**Primary authors:** Prof. DAS, Saurya (University of Lethbridge); Prof. BHADURI, Rajat (McMaster University)

**Presenter:** Prof. DAS, Saurya (University of Lethbridge)

**Session Classification:** Contributed talks