

ARNOLD SOMMERFELD

CENTER FOR THEORETICAL PHYSICS



Sommerfeld Theory Colloquium

Wednesday, 5th May 2021 at 16.15 h

Prof. Robert Brandenberger

(McGill University, Montreal)

Searching for Cosmic Strings in New Observational Windows

Many particle physics theories beyond the Standard Model (BSM) admit topologically stable cosmic string solutions. If Nature is described by such a theory, a network of strings will form in the early universe and persist to the present time. The strings carry energy and hence lead to characteristic signatures in many observational windows. Searching for signals of strings in the sky can lead to new constraints on BSM models. Conversely, cosmic strings may also help solve some current mysteries in astrophysics, e.g. the origin of super-massive black holes.

via ZOOM

Dieter Lüst and Daniele Oriti