



Contribution ID: 777

Type: Minireview Talk

Detection of topological defects in the Universe

Wednesday 14 December 2022 11:00 (25 minutes)

Topological defects are a natural consequence of several symmetry breaking phase transitions. In this talk I will concentrate on cosmic strings and give an overview of the search for signatures of cosmic strings using various methods. I will then describe how magnetic fields can be generated in the wakes of Abelian Higgs strings. The magnetic field generated in these wakes can open up a whole new field for detection of these exotic objects using different forms of electromagnetic radiation.

Session

Astroparticle Physics and Cosmology

Primary author: SANYAL, Soma

Presenter: SANYAL, Soma

Session Classification: WG1-Astroparticle Physics and Cosmology