Contribution ID: 96 Type: Contributed talk

Detecting self interacting and dissipative dark matter by gravitational waves

Wednesday 27 July 2016 12:05 (15 minutes)

Summary

We show that gravitational waves are absorbed while propagating through a medium with non-zero shear viscosity. This provides a method of testing dark matter and dark energy models where there is a self interaction and non-zero shear viscosity by observations of gravitational waves.

Based on (arXiv number)

hep-ph 1603.02635

Author: Prof. MOHANTY, Subhendra (Physical Research Laboratory)

Presenter: Prof. MOHANTY, Subhendra (Physical Research Laboratory)

Session Classification: Cosmological Probes of Dark Matter

Track Classification: Cosmological Probes of Dark Matter