



THE INSTITUTE
FOR UNDERGROUND SCIENCE
AT SURF

Contribution ID: 126

Type: **not specified**

TALK: BSM Physics with Gravitational Wave Detectors

Thursday, June 27, 2024 9:00 AM (45 minutes)

Author: Kuver Sinha

Future gravitational wave detectors probing the mHz - nHz frequency range will provide a unique opportunity for BSM physicists to study new physics. Neutron star and white dwarf mergers can serve as axion probes, while extreme mass ratio inspirals can constrain dark forces. Gravitational wave detectors will also probe early first order phase transitions. I will discuss some ongoing work and future ideas in these directions.

Presenter: SINHA, Kuver (University of Oklahoma)