

Origin of matter in a black hole cosmic string landscape

lundi 30 mai 2022 14:40 (20 minutes)

I shall discuss a new spectrum of super heavy right handed neutrinos that can generate the observed Dark Matter relic and baryon asymmetry of the universe. Cosmological setting of the scenario is based on an universe filled with ultralight evaporating blackholes. I shall discuss how in this mechanism cosmic strings that come out as a consequence of dynamical generation of lepton number, produce gravitational waves with unique spectral features and gravitational waves originated by blackhole density fluctuations, make the scenario more robust.

Orateur: SAMANTA, Rome (Marie-Curie Post Doctoral fellow)

Classification de Session: Parallel session 4