

HSRGC Colloquium

Gravitational Waves from Primordial Black Holes of an Early Matter Era

Christoforos Kouvaris, Prof., NTUA

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Abstract

Primordial black holes could account for part of the dark matter relic abundance. This talk will review the constraints on this possible scenario and focus on the production of gravitational waves from the epoch of the primordial black hole formation in an early matter domination phase of the Universe, using a non-perturbative technique. The prospects of detection for this gravitational wave background will be discussed.