

## 25 - 27 September 2019 – GRK Autumn workshop

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## The Hawking Energy in Cosmology

## Abstract

The definition of mass/energy is a complex issue in general relativity. Amongst other candidates, Hawking's quasi-local proposal satisfies many natural limits, however, fails in general to be positive and monotonous. In this talk, I will discuss how one could use the Hawking energy on the past light cone in cosmology and under which circumstances it can be shown to be positive and monotonously increasing.