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Type: Talk

## Entropy of Unruh radiation from a spherical source with an exponential energy spectrum

Thursday 29 August 2024 17:20 (20 minutes)

Merging together relativity and quantum physics results in non-invariance of quantum vacuum, which is known as the Unruh effect. The phenomenon implies that thermodynamics is susceptible to the chosen reference frame. Here we study the entropy of the Unruh radiation emitted by a spherical source. Estimates are performed for an exponential energy spectrum and homogeneous distribution over any other intrinsic degrees of freedom of the emitted particles.

### Internet talk

Yes

### Is this an abstract from experimental collaboration?

No

### Name of experiment and experimental site

### Is the speaker for that presentation defined?

Yes

### Details

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**Session Classification:** Cosmology, Astrophysics, Gravity, Mathematical Physics

**Track Classification:** Main topics: Cosmology, Astrophysics, Gravity, Mathematical Physics