



Contribution ID : 233

Type : Oral talk

## Gravitational axial anomaly, cosmological constant and Unruh effect in curved spacetime

*Thursday, 24 October 2024 10:00 (15)*

In my talk I will review the hydrodynamical approach to the description of the gravitational chiral anomaly in spacetimes with a non-trivial Ricci tensor proportional to the cosmological constant (so-called Einstein manifolds) and discuss an alternative derivation of the Unruh effect in curved spacetime as a non-trivial consequence of the hydrodynamical description of the axial current.

**Primary author(s)** : KHAKIMOV, Roman (BLTP JINR); Mr. PROKHOROV, Georgy (Joint Institute for Nuclear Research); TERYAEV, Oleg (JINR); Mr. ZAKHAROV, Valentin (JINR)

**Presenter(s)** : KHAKIMOV, Roman (BLTP JINR)

**Session Classification** : HEP Theory

**Track Classification** : High energy physics: theory