



Contribution ID: 54

Type: **Oral presentation**

The role of the Unruh effect in multi-particle processes

Tuesday 24 March 2015 19:00 (30 minutes)

We discuss the relevance of the Unruh effect in multiparticle processes.

We review the cases where it is nothing more than an effective description of “conventional” multi-particle processes describeable, in the inertial frame, through standard scattering theory, and discuss cases where this equivalency breaks down.

We suggest that an experimental investigation of this issue, achievable in the foreseeable future via strong laser physics, is a promising avenue to investigate fundamental physics, using beta decays as an example.

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Session Classification: Strong and electroweak interactions in the standard model

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