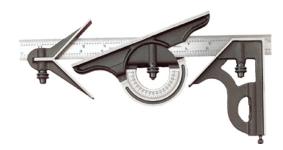
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Testing special relativity through decay of high energy particle

An important test of the special relativity theory consists in verifying two key predictions: the relative widths of unstable particles are independent from their Lorentz boost and their laboratory lifetimes is proportional to the boost parameter

 γ . These predictions can be subject to experimental tests measuring lifetimes and branching rations of unstable particle in flight at variable γ .

This field is relatively uneexplored: only in few cases precision measurements of particle lifetimes at different γ have been performed. After a brief introduction to the theoretical framework we present some suggestions for possible future experiments.

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