

Probing μ flavour change with $\mu \rightarrow \tau$

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Exchanging a virtual μ between $\mu \rightarrow \mu$ and $\mu \rightarrow \tau$ flavour changing vertices results in $\mu \rightarrow \tau$. Upcoming $\mu \rightarrow \tau$ searches are expected to improve the branching ratios sensitivities up to several orders of magnitude and will probe exceptionally small contributions. In this talk, I will discuss the sensitivities of $\mu \rightarrow \tau$ observables to $\mu \rightarrow \tau \times \mu \rightarrow \tau$ interactions in the context of the Standard Model Effective Field Theory. I will show that the next generation of $\mu \rightarrow \tau$ experiments will probe parameter space beyond the reach of dedicated μ flavour violating searches, providing complementary information about μ flavour change.

Orateur: ARDU, Marco

Classification de Session: Parallel session 4