

XXIX Reunión Anual de la División de Partículas y Campos de la SMF

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LNV in $\tau^- \rightarrow \pi^+ \mu^- \mu^- \nu_\tau$ tau decay

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Abstract

In this work, the non-observed process τ^- to $\pi^+ \mu^- \mu^- \nu_\tau$ is simulated in agreement to Belle II experiment. In the process the lepton number is violated in two units with this we could determine the neutrino Majorana nature if this was so. The most important background is generated, τ^- to $\pi^- \mu^- \mu^+ \nu_\tau$ and τ^- to $\pi^+ \pi^- \pi^- \nu_\tau$, and the observables used are momentum transverse and pseudorapidity.

Title

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