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New physics and the tau polarization vector in $b \rightarrow c \tau \nu^- \tau$ decays

Wednesday, 15 September 2021 13:20 (5 minutes)

For a general $H_b \rightarrow H_c \tau \nu^-$ decay we analyze the role of the τ polarization vector in the context of LFU violation studies. We use a general phenomenological that includes several new physics terms. We show that both in the laboratory frame and in the center of mass, a P component is only possible for complex Wilson coefficients. We make specific evaluations of the polarization vector components for some decays, specially for $\Lambda_b \rightarrow \Lambda_c$ transitions.

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