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Charged current $b \rightarrow c\tau\nu^-$ anomalies in a general W' boson scenario

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The very recent experimental information obtained from Belle experiment, along with the one accumulated by the BABAR and LHCb experiments have shown the existence of anomalies in the ratios $R(D)$ and $R(D^*)$ associated with the charged current transition $b \rightarrow c\tau\nu^-$. We present a phenomenological study of parameter space allowed by the new experimental $b \rightarrow c\tau\nu^-$ data and with the mono-tau signature $pp \rightarrow \tau hX + \text{MET}$ at the LHC. For comparison, we include some of the W' boson NP realizations that have already been studied in the literature.

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