

B- \rightarrow K* $\mu^+\mu^-$: Symmetries and Asymmetries in the SM and Beyond

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The rare decay $B \rightarrow K(-\rightarrow K \pi) \mu^+ \mu^-$ is regarded as one of the crucial channels for B physics as the polarization of the K allows a precise angular reconstruction resulting in many observables. We investigate all observables in the context of the Standard Model and various New Physics models, in particular the Littlest Higgs model with T-parity and various MSSM scenarios, identifying those observables with small to moderate dependence on hadronic quantities and large impact of New Physics. We also identify a number of correlations between various observables which will allow a clear distinction between different New Physics scenarios.

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