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[356] Machine Learning in b -> s ll

Thursday 12 September 2024 15:15 (15 minutes)

Short-distance (SD) effects in $b \rightarrow s$ ll transitions can give large corrections to the SM prediction. They can however not be computed from first principles. In my talk I will present a neural network, that takes such SD effects into account, when inferring the Wilson coefficients C9 and C10 from $b \rightarrow s$ ll angular observables. The model is based on likelihood-free inference and allows to put stronger bounds on new physics scenarios than conventional global fits.

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