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Use of Kappa Formulation to Achieve a 2HDM Model Type Independent Scanner

Wednesday 31 March 2021 16:00 (6 minutes)

In our project we wish to make use of the kappa formulation in order to avoid choosing specific 2HDMs in our searches. In doing so we can maximise the value of our search by considering points with the highest cross-sections w.r.t. to Kappas instead of w.r.t. coupling strengths taken from QFT rules (which are of course restricted to individual models by definition). I give a brief overview of the theory and plans for this.

Presenter: BYERS, Ciara (University of Southampton)

Session Classification: Student Session