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## **Understanding Strange Tagging and its Uncertainties**

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The identification of jets initiated by a strange quark and discriminating them against jets initiated by other flavours of partons is a crucial piece of measuring the Higgs Yukawa coupling to strange quarks. While ML-based taggers have been trained on simulation to provide such simulation, its unclear which features of the simulation they are using in their discrimination and how this might be impacted by theoretical uncertainties on the modelling of jet production and the fragmentation process. We investigate some of the physics of strange jets, as produced in simulation, provide a first assessment of theoretical uncertainties on strange tagging and provide some thoughts on future directions.

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