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Scale factors determination applied to the dark Higgs model

Content

The presentation of this work focuses on the adjustment to the efficiency of a double b tagger that identifies a fat jet resulting from the decay of the dark Higgs boson by scale factors in the context of dark matter searches, specifically using the dark Higgs model. Scale factors are calculated by applying the tagger in jets of a b quark enriched sample from data from LHC Run 2 and Monte Carlo simulation. The results are the profile of scale factors that are applied as a correction in the analysis for the dark Higgs search.

Summary

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