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Comparative study of machine learning techniques in the search for dark matter candidates associated with missing transverse energy

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The Large Hadron Collider generates experimental data that consists of signal and background events. In order to further analyse the data, it is highly desirable to optimally discriminate between signal and background events. We conduct a comparative study between supervised and semi-supervised machine learning techniques in classifying between signal and background events in $H \rightarrow \gamma\gamma + \chi$ decay channel.

Apply to be considered for a student award (Yes / No)?

Yes

Level for award (Hons, MSc, PhD, N/A)?

MSc

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