

AISSAI Anomaly Detection Workshop



ID de Contribution: 10

Type: Non spécifié

Enhancing Monojet searches with ML

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Dark Matter particles could potentially be detected at the Large Hadron Collider (LHC) using the monojet channel, where at least one high p_T jet recoils against missing transverse momentum. However, these searches pose a challenge as they require distinguishing subtle differences among similar jets. One way to improve this is by using Machine Learning (ML) methods to analyze correlations between jet constituents. I plan to share a proof-of-concept analysis employing a graph neural network to distinguish between the Standard Model background and signal from neutralino Dark Matter. I will provide the preliminary results obtained from evaluating this approach on MC simulated data.

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Classification de Session: Lightning talks