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Machine Learning in the Search for New Fundamental Physics

Tuesday, 25 October 2022 09:30 (30 minutes)

As the search for new fundamental phenomena at modern particle colliders is a complex and multifaceted task dealing with high-dimensional data, it is not surprising that machine learning based techniques are quickly becoming a widely used tool for many aspects of searches. On the one hand, classical strategies are being supercharged by ever more sophisticated tagging algorithms; on the other hand, new paradigms —such as searching for anomalies in a data-driven way —are being proposed. This talk will review some key developments and consider which steps might be needed to maximise the discovery potential of particle physics experiments.

Experiment context, if any

References

Significance

Presenter: KASIECZKA, Gregor (Hamburg University (DE)) **Session Classification:** Plenary