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Type: **Talk**

Machine Learning for High-Energy Physics Reconstruction and Analysis

Tuesday, 1 February 2022 10:00 (30 minutes)

The Large Hadron Collider (LHC) is delivering the highest energy proton-proton collisions ever recorded in the laboratory, permitting a detailed exploration of elementary particle physics at the highest energy frontier. In this talk, I will discuss the application of machine learning to problems in high-energy physics, with a focus on the challenges associated with large, complex datasets from the Large Hadron Collider, and those expected from the High-Luminosity Large Hadron Collider. I will discuss the application of state-of-the-art machine learning methods to new physics searches at the LHC, detector reconstruction, event simulation and real-time event filtering at the LHC.

Type of Contribution

talk

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