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AI in Particle Physics

vendredi 14 juin 2024 12:00 (1 heure)

Particle physics deals with gigantic machines, large quantities of experimental data and computer simulations, complex and lengthy theoretical calculations. It is the perfect playground to take advantage of machine learning algorithms. After a short introduction to high energy physics, this lecture will show how one can speed up steps like event generation or detector simulation, better measure parameters, improve classification of events as signal or background, or discover anomalies in data taking, through various applications of machine learning in this field.

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