Contribution ID: **660**   Type: **Invited Speaker / Conférencier(ère) invité(e)**

(I) Machine Learning Applications in Particle Physics: Present and Future

Thursday 10 June 2021 15:45 (15 minutes)

In this overview I'll present a selection of recent machine applications to event reconstruction and data analysis across the subfields of experimental particle physics. Strategies for treatment of experimental data and design of machine learning algorithms will be discussed. I will give a personal perspective on potential future particle physics applications of machine learning, including real-time evaluation for triggering and the deployment of generative models

Primary author: FEDORKO, Wojtek (TRIUMF)

Presenter: FEDORKO, Wojtek (TRIUMF)

Session Classification: R3-7 Machine learning in HEP & Novel reconstruction techniques II (PPD) / Apprentissage automatique en PHE et nouvelles techniques de reconstruction II (PPD)

Track Classification: Particle Physics / Physique des particules (PPD)