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R&D of the Machine Learning Application to the Collider Experiments

Wednesday, 17 March 2021 06:20 (20 minutes)

In this talk, we show the recent results of our R&D works on the Machine Learning Application to the Collider Experiments.

In RCNP, Osaka University, in Japan, we form a group which consists with about 20 researchers on both information science and collider physics (experiment and theory) to work on the R&D of machine learning application to the collider experiments, as a research project in RCNP. The R&D works are related to the data analysis (Belle, ILC), detector calibration (ILC, ECAL energy calibration), accelerator control (KEK Linac), and Lattice QCD, etc. In this talk, we'd like to show the recent activities on the machine learning application based on the low-level feature data (physics analysis, and ECL calibration) and reinforcement learning (accelerator control).

Time Zone

Asia/Pacific

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