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【Invited talk】 Accelerator AI at Fermilab

Tuesday, 28 November 2023 10:30 (40 minutes)

In this presentation, I introduce the AI/ML applications for the Fermilab accelerator system. For example, a fast AI/ML FPGA hardware is installed on the Recycler Ring beam control system to tune the beam position to reduce the beam loss rate. The proton linac has other type of the AI/ML feedback loop to manipulate the RF parameters. The NuMI target system has the AI/ML based muon monitor signal analysis to detect the beam parameter change with high accuracy.

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