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The future of the Fermilab Accelerator Division in 10 minutes

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The Fermilab Accelerator Division has a solid milestone for the next generation HEP facility. The proton accelerator and the NuMI target system are ready to operate 1-MW beam power to reveal neutrino properties. The Mu2e beam line has begun to be constructed which has a unique beam transport to discover the charged-lepton flavor violation (CLFV). Recently, IOTA demonstrated the concept of integrable optics which suppresses the space charge effect. The Fermilab has the advanced SRF technology which is used for PIP-II. Implementations of AI and robotics are ongoing projects. This talk will summarize those projects.

Summary

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