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Opportunities for Collaboration at Fermilab: Input to the European Strategy for Particle Physics, 2012

The purpose of this letter is to describe the major opportunities for collaboration between European institutions and Fermilab over the next two decades. Fermilab is developing a leading program at the intensity frontier, where the currency is not the highest energy but the greatest flux of particles. Fermilab will provide the international particle physics community with the most powerful facilities for the study of neutrinos with accelerators in both long- and short-baseline configurations. Fermilab facilities will give the world's researchers their best opportunity to study the rare processes of kaons and muons that are sensitive to mass scales well beyond the direct reach of the Large Hadron Collider. The large flux of particles available from Fermilab accelerators will also allow the greatest reach in the study of the neutron electric dipole moment, the muon electric dipole moment and the electron dipole moment through the production and measurement of copious amounts of rare isotopes. The intensity frontier program is an important and necessary addition to the world's particle physics program, complementary to and independent of the discoveries made at the LHC.

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