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## Opportunities in Accelerator-based Neutrino Physics in Japan

This document provides the inputs to the ongoing European Particle Physics Strategy based on the opportunities offered by the accelerator-based neutrino programme in Japan to which the 2013 European Strategy recommended due to the “Rapid progress in neutrino oscillation physics, with significant European involvement”, “CERN should develop a neutrino programme to pave the way for a substantial European role in future long-baseline experiments”, that led to the establishment of the CERN neutrino platform and that “Europe should explore the possibility of major participation in leading long-baseline neutrino projects in the US and Japan”, that supported the expansion of the already substantial European presence in the Japanese long baseline neutrino programme to encompass Hyper-Kamiokande in addition to T2K.

There have been significant developments since the publication of the European Particle Physics Strategy with the establishment of the Hyper-K collaboration, whose far detector will start to be constructed in 2020, and the prospect of the T2K running beyond 2021, with increasing beam power due to an upgrade of the J-PARC Main Ring accelerator, up to the start of data taking for Hyper-K, thus assuring a continuous period of data taking in Japan in the next decades. There is significant European participation in both experiments and an already ongoing engagement from CERN through the Neutrino Platform and the registered-experiment status of T2K.

Recommendations to the European Particle Physics strategy are presented on the accelerator-based neutrino programme of those facilities, based upon the foundations of the current and past work and future opportunities offered by the accelerator neutrino programme in Japan.

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