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Deep Underground Neutrino Experiment (DUNE)

The 2013 European Strategy for Particle Physics (ESPP) identified the long-baseline neutrino programme as one of the four scientific objectives that require international collaboration. This strong recommendation led to the formation of DUNE as an international collaboration in 2015. The DUNE Collaboration now includes CERN and 14 of its member states, with approximately 400 European collaborators, and has a fully international governance model.

The DUNE experiment has three primary physics objectives: (i) the discovery of leptonic CP violation; (ii) Search for baryon number violation and (iii) detection of neutrinos emitted by a core-collapse supernova. This physics programme is enabled by the combination of a high-intensity neutrino beam, a powerful multi-purpose near detector and the precision imaging liquid-argon technology of the far detector.

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