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DESY's role in Europe: A Contribution to the European Particle Physics Strategy Update Process

The Deutsches Elektronen-Synchrotron DESY is Germany's largest accelerator laboratory, with programmes in particle physics, astroparticle physics and photon science, and with R&D activities in the areas of accelerators, detectors and computing. In particle physics, DESY is a key contributor to experiments at the LHC and at the SuperKEKB collider. The laboratory hosts the ALPS II experiment and plans to use the DESY infrastructure for hosting further axion and strong-field QED experiments. DESY is home to a broad and world-class theory group. The laboratory commands important system competences and infrastructures, including a test beam facility that is used by hundreds of users per year for particle physics experiments. DESY plays the important role of a national hub and facilitator for large-scale German contributions to international particle physics endeavours. The laboratory is also very visibly contributing to efforts for defining the next big collider project in the field. This paper describes DESY's current scientific programme as a whole, and it elaborates on the strategy for the future development of particle physics at DESY.

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