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Experimental Program for Super Tau-Charm Facility

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The proposed STCF is a symmetric electron-positron beam collider designed to provide e+e- interactions at a centerof-mass energy from 2.0 to 7.0 GeV. The peaking luminosity is expected to be 0.5×10^{35} cm-2s-1. STCF is expected to deliver more than 1 ab-1 of integrated luminosity per year. The huge samples could be used to make precision measurements of the properties of XYZ particles; search for new sources of CP violation in the strange-hyperon and tau–lepton sectors; make precise independent mea-surements of the Cabibbo angle (theta)c) to test the unitarity of the CKM matrix; search for anomalous decays with sensitivities extending down to the level of SM-model expectations and so on. In this talk, the physics interests will be introduced as well as the the recent progress on the project R&D.

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Session Classification: Parallel 2: Hadrons and related high-energy physics

Track Classification: Hadrons and related high-energy physics