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Project of the Charm-Tau factory in Novosibirsk

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The project of the Super C-Tau factory (SCTF) is under development now at BINP in Novosibirsk. This electron-positron collider is intended for experiments in the energy range from 2 to 6 GeV with a luminosity of $10^{35} \text{ cm}^{-2}\text{s}^{-1}$. The high luminosity will provide a wide physical program that includes many fundamental issues like a study of mixing in the D meson system, search for CP-violating effects in decays of charmed particles, and search for “new physics” in rare and Standard Model-forbidden decays of charmed particles and tau lepton. Other important fields including two photon physics is also presented in the researches plans.

Summary

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