

Super Charm-Tau Factory in Russia

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The Super Charm-Tau Factory (SCTF) project proposed at Budker Institute of Nuclear Physics is discussed. An electron-positron collider with the luminosity of about $10^{35} \text{ 1/cm}^2/\text{s}$ operated at the center-of-mass energies from 3 to 7 GeV, and modern particle detector allow one to study on the new level of precision the physics of charmonium, exotic charmonium-like states, charmed mesons and baryons, and the tau lepton, as well as the production of light hadrons in $e^+ e^-$ -annihilation processes and in two-photon processes. A longitudinal polarization of the electron beam at the interaction point will provide a number of advantages of the SCTF over the existing B factories such as Belle II and LHCb. The tau physics program of the SCTF will be discussed in more detail.

What is your topic?

Author: EPIFANOV, Denis (BINP, Novosibirsk)

Presenter: EPIFANOV, Denis (BINP, Novosibirsk)

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