

## ”Plans for novel Cherenkov detectors at the Super Charm-Tau Factory at Novosibirsk”

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The future  $e^-e^+$  Super Charm-Tau Factory (SCTF) to be built at Novosibirsk will cover an energy range of 2 – 6 GeV. The projected record luminosity of  $10^{35} \text{ cm}^{-2} \text{ s}^{-1}$  and the longitudinal polarization of the electrons will enable a wide range of standard model precision tests and options for the discovery of flavor violating decays beyond the standard model. A  $4\pi$  detector with excellent particle identification (PID) required with challenging  $\mu/\pi$ -separation in the range 0.2 – 1.2 GeV/c. This talk focuses on two new concepts and the first tests of novel Cherenkov detectors for SCTF, a focusing aerogel RICH (FARICH) and a focusing DIRC (FDIRC). Both require single-photon detection with good coordinate and timing resolution. The prototyping for both versions already started at BINP and Giessen. The tests include various photon detectors (MCP-PMT, SIPM, MPPC). The first results using cosmic muons at the Giessen Cosmic Station are presented.

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No, this is an entirely new submission.

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**Primary author:** Dr HAYRAPETYAN, Avetik (II. Physikalisches Institut, Justus Liebig-University of Giessen, Giessen, Germany)

**Co-authors:** DÜREN, M. (II. Physikalisches Institut, Justus Liebig-University of Giessen, Giessen, Germany); SCHMIDT, M. (II. Physikalisches Institut, Justus Liebig-University of Giessen, Giessen, Germany); BARNYAKOV, A. Yu. (Budker INP, Novosibirsk and Novosibirsk State U., Russian Federation); BOBROVNIKOV, V. S. (Budker INP, Novosibirsk and Novosibirsk State U., Russian Federation); KONONOV, S. A. (Budker INP, Novosibirsk and Novosibirsk State U., Russian Federation)

**Presenter:** Dr HAYRAPETYAN, Avetik (II. Physikalisches Institut, Justus Liebig-University of Giessen, Giessen, Germany)

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