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R&D of Focusing Aerogel RICH detectors

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Content

Focusing Aerogel RICH (FARICH) is a novel type of Cherenkov detector that employs radiator of multi-layer or inhomogeneous aerogel to get focussed Cherenkov rings in the photon detector plane. This technique allows one to achieve an excellent Cherenkov angle resolution that allows one, for example, to separate muons and pions up to 2 GeV/c momentum that is needed for the Super Charm-Tau factory project in Novosibirsk. FARICH R&D started in 2004 is followed. Applications of the FARICH detectors in the forthcoming and future experiments are described, including the Forward RICH detector for the PANDA experiment. Beam tests results of FARICH prototypes are reported.

Summary

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