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Progress in the production of aerogel radiators for the RICH detectors in Novosibirsk

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Modern projects require large format aerogel radiators. In 2022-2023, several unique aerogel tiles were produced in Novosibirsk. Aerogel blocks larger than 200 by 200 mm in lateral size and 40, 50 mm thickness with a refractive index of 1.03 or 1.05 were fabricated. Also in 2023, for the first time in the world, samples of a multilayer focusing aerogel with dimensions of 230x230x35 mm were made. Their parameters were investigated on the test benches and with relativistic electron beams. The results of these tests are presented.

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