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Vacuum acceptance test of vacuum chambers for early science FAIR

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A new accelerator facility (FAIR) is currently being built at GSI Helmholtz Centre for Heavy Ion Research in Darmstadt, Germany. The FAIR accelerator facility will consist of various beam lines, which provide different functions and experiments using various particle beams (ions, proton and anti-protons). Due to unprecedented circumstances, the FAIR project is currently divided into several design phases. The first priority of the design phase (referred to as “Early Science”) is focused on the high energy beam transfer (HEBT) and Super Fragment Separator (SRFS) beamlines.

To ensure the vacuum compatibility of these beam lines, vacuum acceptance tests of various prototypes and first of series of vacuum components are carried out before installation to the accelerator. This work will present some of the latest results of the vacuum acceptance tests for HEBT vacuum tubes produced in-house at GSI, the first of series of SRFS Slit vacuum parts and SRFS multiplet vacuum tubes.

Footnotes

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Region represented

Europe

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