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## Verification of the optics model of the ESR-CRYRING transfer line at GSI

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Experiments at CRYRING using beams accelerated and decelerated in the accelerator chain SIS18 - ESR - CRYRING at GSI are considered as the first real FAIR experiments. For these experiments, CRYRING receives fast extracted beams from the ESR, which are cooled and decelerated down to about 10 MeV/u in the ESR. The beam transport from ESR to CRYRING is difficult, since part of the beamline has been reused and was not designed for such low-energy beams. Furthermore, developments inside the ESR are on-going and - especially after switching to the new control system - one could not expect that beam parameters and optics functions at the extraction point are necessarily the same as in the past. Therefore, a measurement campaign has been carried out to verify the optics model for the ESR-CRYRING beamline. The initial values for the optics functions at the ESR extraction point and the transverse emittance have been also measured. The results are discussed in this paper.

### Funding Agency

### Footnotes

### I have read and accept the Privacy Policy Statement

Yes

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