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Beam Diagnostics of the NEWGAIN Project

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The aim of the NEWGAIN Project (NEW Ganil INjector), is to build a second injector on the SPIRAL2 accelerator to produce and accelerate heavier beams with A/q up to 7. The NEWGAIN injector is based on 2 ECR ion sources, two LEBT, one RFQ and a MEBT lines to send new ion beams in the linac and the S3 experimental room.

Diagnostic monitors are planned to measure and control beam intensities, profiles, phases, energies and emittances. A presentation of beam characteristics and a description of the diagnostic monitors are done. Modifications of the beam duty cycle system and the machine protection system are also detailed.

Footnotes

Funding Agency

ANR: Funding Agency for Research in France (ANR-21-ESRE-0018)

I have read and accept the Conference Policies

Yes

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