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Beam dynamics in the NEWGAIN project at GANIL-SPIRAL2

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The NEWGAIN (NEW GAnil INjector) project aims at supplying higher mass-to-charge ratio ions (from $A/Q=3$ to 7) with an energy of 590 keV/A to the present SC-Linac of SPIRAL2. It comprises a new SC source, a dogleg LEPT, an 88 MHz RFQ, and a MEPT, optimized for a current of up to 350 μ A of uranium. Additionally, an extension of the present LEPT is considered to merge into the new one. This paper presents the last layout and beam dynamics results for these new lines, including the mass resolution, chopping, admittance slit and tuning scheme as the Design Study Phase ends.

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Footnotes

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Yes

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