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GANIL cyclotron and ion source for industrial application

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The GANIL (Grand Accélérateur National d'Ions Lourds) in Caen produces up to 20 % of the beam times dedicated to industrial applications, such as the irradiation of electronic components.

The SAGA (Space Application at GAnil) project aims to increase beam times for these applications in the future in order to meet demand from French and European industries.

In this context, one of the challenges is to be able to switch rapidly from one beam to another in order to optimize the beam time available to industry. To meet these requirements, CIME's cyclotron could be an interesting device: it is capable of accelerating beams up to 20 MeV/A for light elements, and it can be used as a mass separator to select the desired beam. In order to supply stable ion beams to the CIME cyclotron, the charge breeder installed on the SPIRAL1 facility has been tested and adapted to provide a stable cocktail-type beam with a very close A/Q.

Details of the project and initial results will be described.

Footnotes

Funding Agency

I have read and accept the Privacy Policy Statement

Yes

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