Contribution ID: 507 Contribution code: THPB048

Type: Poster Presentation

nuCARIBU commissioning at ATLAS

Thursday 29 August 2024 16:00 (2 hours)

fragments will be thermalized in an existing gas catcher and formed into beams for stopped and reaccelerated experiments. A 6 MeV, 0.5 mA proton cyclotron will bombard a 7Li target to generate the needed neutrons. This configuration will replace the current source of radioactive ions, a thin plating of spontaneously fissioning 252Cf. nuCARIBU is expected to increase the overall intensity of n-rich ions, and improve the consistency and reliability of radioactive ion beam production. This paper will present the results of the recent installation and commissioning of the cyclotron and initial proton beam delivery.

Footnotes

Funding Agency

This work was supported by the U.S. Department of Energy, Office of Nuclear Physics, under Contract No. DE-AC02-06CH11357 and used resources of ANL's ATLAS facility, an Office of Science User Facility

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Session Classification: Thursday Poster Session

Track Classification: MC1: Beam Dynamics, Extreme Beams, Sources and Beam-Related Technologies: MC1.2 Electron and ion sources, guns, photo injectors, charge breeders