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Type: **Poster Presentation**

## RFQ accelerator beam optimization at Necsa

*Tuesday, 4 July 2017 17:10 (1h 50m)*

A process of beam optimization was carried out at Necsa following changes made to the HEBT system of the accelerator. This was done to establish the most optimal beam conditions that ensures adequate beam transport is achieved and maintained during acceleration. The optimization method and work will be presented which will detail the 3 step process followed that involved TRACE 3D simulation, quadrant analysis for beam positioning, and a beam to target run for identifying beam position and determining beam size.

**Apply to be considered for a student &nbsp; award (Yes / No)?**

No

**Level for award (Hons, MSc,   PhD, N/A)?**

No

**Would you like to submit a short paper for the Conference Proceedings (Yes / No)?**

No

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**Session Classification:** Poster Session 1

**Track Classification:** Track F - Applied Physics