Contribution ID: **290** Type: **Poster Presentation**

Detection at Necsa's Accelerator facility.

Thursday, 12 July 2012 17:30 (2 hours)

Abstract content
   (Max 300 words)

The accelerator facility at Necsa is in the process of investigating the usage of a solid 11B target for the RFQ accelerator, this target producing a range of fast neutrons from 1 MeV - 14 MeV as well as two distinct gamma rays (4.43 MeV and 15.11 MeV) for Dual Discrete Gamma Radiography. The target is planned to be mounted onto a graphite layer, therefore there is a need to review the gamma spectrum from 12 C , this being done at the Van der Graaff (terminal potential of 4MV) with some results discussed here. The 11B target together with a developing pulsed beam system will enable the capability of conducting both fast neutron resonance radiography and time of flight studies, the philosophy of this being aligned with PTB in Germany.

Apply to be
 consider for a student
   award (Yes / No)?

No

Level for award
 (Hons, MSc,
   PhD)?

none

Main supervisor (name and email)
and his / her institution

Dr CB Franklyn chris.franklyn@necsa.co.za; Necsa

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

Yes

Primary author: Mr DANIELS, Graham (Necsa)

Presenter: Mr DANIELS, Graham (Necsa)

Session Classification: Poster Session

Track Classification: Track B - Nuclear, Particle and Radiation Physics