Contribution ID: **92** Type: **Oral Presentation**

Rutherford Backscattering Analysis using lithium ions.

Wednesday, 1 July 2015 11:10 (20 minutes)

Abstract content
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In the absence of beams of the more usual helium ions or alpha-particles, lithium-7 ions of a few MeV are being used on the Tandem accelerator at iThemba LABS (Gauteng) for carrying out Rutherford backscattering analyses. Their extra mass and charge are found to make very little difference in terms of target mass and depth resolution. A series of experiments to calibrate the implantation doses delivered by the "new" ion implanter, is described.

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Session Classification: Applied

Track Classification: Track F - Applied Physics