



Contribution ID: 309

Type: Poster Presentation

## Beam experiments with the Grenoble Test Electron Cyclotron Resonance Ion Source at iThemba LABS

Wednesday, 1 July 2015 16:10 (1h 50m)

**Abstract content <br> &nbsp; (Max 300 words)<br><a href="http://events.saip.org.za/getFile.py?target="\_blank">Formatting &<br>Special chars</a>**

At iThemba Laboratory for Accelerator Based Sciences (iThemba LABS) a copy of the so-called Grenoble Test Source (GTS) for the production of highly charged ions is installed. The source in combination with the K-200 cyclotron delivers high energy, high intensity beams for nuclear physics experiments.

In this talk we present experiments with the GTS2 for Argon beams at iThemba LABS, in which the results of CW, pulsed and afterglow operation for different bias disc position and different supporting gases are compared.

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

NO

**Level for award<br>&nbsp;(Hons, MSc, <br> &nbsp; PhD, N/A)?**

NO

**Main supervisor (name and email)<br>and his / her institution**

Dr. R. W. Thomae, rthomae@tlabs.ac.za, iThemba LABS

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

Y

**Please indicate whether<br>this abstract may be<br>published online<br>(Yes / No)**

Y

**Primary author:** Dr NEMULODI, Fhumulani (iThemba LABS)

**Co-authors:** Mr FOURIE, D (iThemba LABS); Ms CLOETE, J (iThemba LABS); Dr MIRA, J (iThemba LABS); Dr CONRADIE, J. L. (iThemba LABS); Dr THOMAE, R. W. (iThemba LABS)

**Presenter:** Dr NEMULODI, Fhumulani (iThemba LABS)

**Session Classification:** Poster2

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