



Contribution ID: 287

Type: Oral Presentation

Plasma diagnostics on the GTS-ECRIS at iThemba Labs

Thursday, 2 July 2015 14:40 (20 minutes)

Abstract content
 (Max 300 words)
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A new technique is being developed to determine the prevailing charge state distribution (CSD) inside an Electron Cyclotron Resonance Ion Source (ECRIS) by measuring the characteristic X-rays emitted by the ECR heated plasma. We will report here on the results of initial measurements on the ECR ion source at iThemba LABS. The technique will in future be applied to study the two current phenomena which occur when ECR ion sources are operated in pulsed-mode.

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Session Classification: NPRP

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