



Contribution ID: 371

Type: **Poster Presentation**

Status of the ECR ionizer for polarized ion source at iThemba LABS

Tuesday, 26 June 2018 15:00 (2 hours)

The polarized ion source at iThemba LABS has been in operation for over two decades using Electron Beam (EB) ionizer. The source has been used to deliver beam for nuclear physics research. Due to its disadvantages which are producing beam with large energy spread and having complicated extraction system, the EB ionizer was replaced by Electron Cyclotron Resonance (ECR) ionizer. The ECR ionizer has better plasma confinement due to its higher magnetic mirror fields as well as low energy spread of which nuclear physics require. The use of ECR ionizer recently installed at iThemba LABS is under investigation.

Please confirm that you have carefully read the abstract submission instructions under the menu item "Call for Abstracts" (Yes / No)

Yes

Consideration for student awards
Choose one option from those below.
N/A
Hons
MSc
PhD

MSc

Supervisor details
If not a student, type N/A.
Student abstract submission requires supervisor permission: please give their name, institution and email address.

Dr. Joele Mira, iThemba LABS
mira@tlabs.ac.za

Primary authors: Dr MIRA, Joele (iThemba LABS); Dr CONRADIE, Lowry (Member); Mr MNIKATHI, Ndumiso (student); Dr NEMULODI, fhumulani (iThemba LABS)

Presenter: Mr MNIKATHI, Ndumiso (student)

Session Classification: Poster Session 1

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