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## AN OVERVIEW OF THE iTHEMBA LABS CYCLOTRONS AND ION SOURCES

The Separated Sector Cyclotron, which is the heart of the iThemba LABS facility, has now been in operation for more than three decades. Over the years numerous improvements have been made to the existing facility. These include the installation of two novel flat-topping systems, simultaneous target irradiations with the installation of a beam splitter system as well as new and additional diagnostic equipment which has been installed. All these improvements will be presented. A general discussion on the various ion source improvements will also be presented.

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

No

**Level for award (Hons, MSc, PhD, N/A)?**

N/A

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