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Production of Intense Uranium Ion Beams with SECRAL-II Ion Source

Intense highly charged uranium ion beam production is essential for heavy ion accelerators in operation and those under construction. Although metallic beam production is tricky, based on our earlier study, intense uranium beams can be expected when operating a third generation electron cyclotron resonance (ECR) ion source especially in afterglow mode with double frequency heating. In this study, we aim to produce intense uranium beams with SECRAL-II (Superconducting ECR ion source with Advanced design in Lanzhou No. II) ion source at high frequency (24+18 GHz) and high power (~8 kW) in both continuous wave (CW) and afterglow modes. The experimental results will be reported in this presentation.

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Yes

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