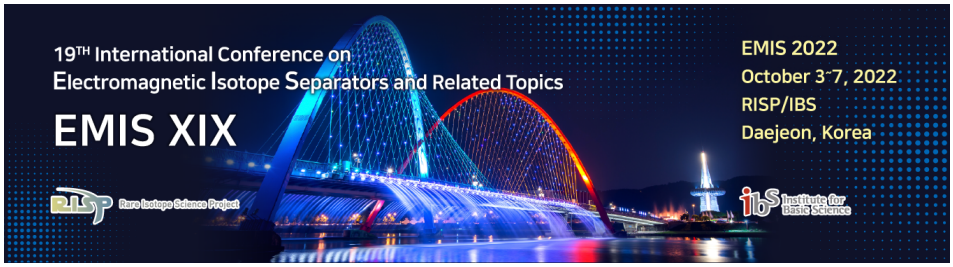

Contribution ID: **4** Type: **Poster Session**

Test Results and Current Status of the RISP 28GHz ECR ion source

Monday, 3 October 2022 17:10 (8 minutes)

The RISP 28GHz ECR ion source was transferred from the temporary test site to the RISP main site in 4Q 2019. Installation and precision alignment were completed in 1Q 2020. Cryostat cool-down started in October 2021 due to site mechanical equipment condition. In the operation of the superconducting electromagnet, after several training procedures, Ba.max=3.0T was reached in June 2021. The beam extraction test was conducted under such magnetic field conditions. For the relative verification of the ion source performance, Ar13+ beam was selected as the target beam, and a test was conducted to maximize the beam current. As a result, a beam current of 100euA, which was less than the 1st stage target of Ar13+ 250euA, was drawn. For further improvement of the ion source, points to be improved are summarized in this paper.

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