

## Development of sustainable $^{24}\text{Mg}^{8+}$ beam production at HyperECR

In collaboration with the CRIB spectrometer group, we have been developing a magnesium beam that can be provided for long-term experiments.

CNS 14 GHz HyperECR ion source provides various metal ion beams to the RIKEN AVF cyclotron. The magnesium beam was already been put to practical use, however, its intensity and sustainability had not met the requirements of the experiment group. Therefore, developments in beam production have been put forward. This report discusses two methods for  $^{24}\text{Mg}^{8+}$  beam production.

**Primary authors:** KAMAKURA, Keita (CNS, UTokyo); KOTAKA, Yasuteru; NAKAGAWA, Takahide; OHNISHI, Jun-ichi; HATANAKA, Kichiji; GOTO, Akira; YAMAGUCHI, Hidetoshi (Center for Nuclear Study, the University of Tokyo); SAKEMI, Yasuhiro (CNS)

**Track Classification:** Accelerator and Instrumentation