

646th ASRC Seminar

Date: 15:30 ~ Friday, August 5

Location: 103 Meeting Room, ASRC Bldg.

Speaker: Mr. Yasuto Miyake
(The University of Tokyo)

Title: Laser photo-detachment for separation of
isobaric heavy ions on Accelerator Mass
Spectrometry

Abstract: Laser photo-detachment is one of new isobar separation techniques on accelerator mass spectrometry (AMS). In this method, isobar ions are selectively neutralized by laser and separated from ions of interest. In order to suppress isobar ions sufficiently, it is important to gain ion-laser interaction time. Therefore, the instrument to decelerate ions and increase ion-laser interaction time, which is called “ion cooler”, is developed.

A negative ion cooler was also developed at Micro Analysis Laboratory Tandem Accelerator, The University of Tokyo (MALT). To test its performance, we also constructed test bench beam line, which consists of an ion source, a bending magnet, and other beam line components. In this presentation, we will present development of a negative ion cooler and construction of test bench beam line at MALT.

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Masato Asai (81-5490)
Advanced Science Research Center