Development of the Atomic Beam System for the Laser Isotope Separation of ⁴⁸Ca

Tasuku HIRAIWA¹, Yusuke KAWASHIMA¹, Ren YUHAKU¹, Junya NAKAJIMA¹, Masashi TOZAWA¹, Hideaki NIKI^{1,3}, Saori UMEHARA², Sei YOSHIDA³, Shigeki TOKITA⁴, Noriaki MIYANAGA⁵, Izumi OGAWA¹ ¹Dept. of Engineering, Univ. of Fukui, ²RCNP, Osaka Univ., ³Fac. of Sci. , Osaka Univ., ⁴ICR, Kyoto Univ., ⁵Inst. for Laser Tech.)



The next step is to generate a sheet atomic beam using a collimator with three tubes in a row with a large-volume crucible.

 $lpha \sigma$ for measurements using fluorescence and thickness gauges are converted to TOF position

Further studies are needed.