

Half-life measurement of 107-keV isomeric state in ^{45}Cr

We did the experiment that carried out mass measurements around ^{47}Fe in May 2022. Then, we made a lot of unstable nuclei. Some of them emitted γ -rays and backed to ground state. These γ -rays measured by Ge detector. In this experiment, we succeeded in measuring the half-life of the 107-keV isomeric state in ^{45}Cr .

Primary authors: AMITANI, Mei; MICHIMASA, Shin'ichiro (Center for Nuclear Study, the Univ. of Tokyo); NISHIMURA, Daiki (Tokyo City University)

Track Classification: Experimental Nuclear Physics: Low and Intermediate Energies