

Characterization of a tritium target for two-neutron transfer studies at TRIUMF

Friday, 24 August 2018 16:55 (15 minutes)

(t,p) two-neutron transfer reactions are well suited for studying pairing correlations and shape coexistence phenomena. At radioactive beam facilities, (t,p) reactions have to be performed in inverse kinematics requiring a tritium target.

At TRIUMF a tritium-loaded titanium target has recently become available. For the analysis and planning of future experiments, it is desirable to characterize the target through elastic scattering measurements using an accelerated beam. We performed the measurements at the ISAC-II facility, TRIUMF. The results for the tritium thickness and the degree of hydrogen contamination will be shown in this talk.

Primary author: KITAMURA, Noritaka

Presenter: KITAMURA, Noritaka

Session Classification: YSS