

Neutron induced reaction cross-section of Tantalum

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Introduction

- For the investigation of nuclear physics phenomena such as nuclear reaction dynamics, element formation, and the astrophysical process of nucleosynthesis, the neutron capture cross-section is important. The safety analysis and reactor design depend on its quantitative values [1, 2, 3, 4, 5, 6, 7].
- For the next generation of nuclear facilities, it is crucial to have nuclear data that includes the neutron elastic and inelastic scattering cross sections on significant structural and coolant materials. [8, 9, 10, 11].
- Tantalum has qualities that are advantageous for use in nuclear systems.
- For accurate neutron transport calculations, it is therefore crucial to have a precise understanding of tantalum's neutron cross-section and uncertainty. Only osmium, thulium, and tungsten are denser metals with melting points higher than that of tantalum (3017°C).
- Evaluation function was measured for $^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$ reaction using a natural sample of tantalum in the neutron energy 0.53 MeV and 1.05 MeV. The corresponding were compared with the experimental data from EXFOR and as well as IAEA/ENDF/B-VIII.0, and JENDL-4.0.

Experimental Details

- The experiment was carried out at the 6 MV Folded Tandem Ion Accelerator (FOITA) facility, BARC, Mumbai.
- In the experiment, the proton having energies 2.5 MeV and 3.0 MeV were bombarded on a natural lithium target for neutron production purposes.
- EPEN code was used for the simulation of neutron flux. This code has been designed for the proton energy from the reaction threshold to 7.0 MeV.
- Since the incident proton energies were higher than the threshold energy (2.17 MeV) of the first excited state of ^7Li , and the low energy neutron production yield (n_{12}) will contribute to the ground state neutron (n_{10}) production yield.
- The neutron flux energy spectra for (n_{10} , n_{12}) and (n_{10} , n_{12}) obtained from EPEN code for the two energies 0.53 MeV and 1.05 MeV are presented in Fig. 1.

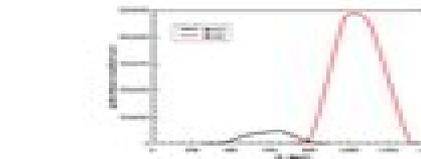
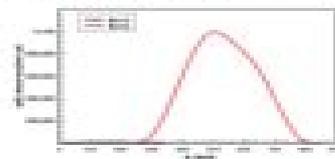


Figure 1: Neutron flux energy spectra obtained from EPEN at $E_p = 2.5$ and 3.0 MeV.

Result and Discussion

In the present work, efficiency calibration [12, 13, 14] of the HPGe detector for different gamma ray energies has been carried out using a standard ^{137}Cs point source.

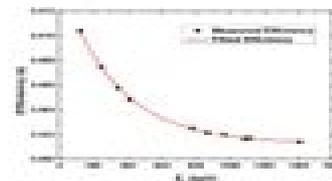


Figure 2: Efficiency calibration curve of the HPGe detector. The geometry-dependent efficiency (ϵ_{g}) of the point source for source-detector was estimated using the following equation:

$$\epsilon_{\text{g}} = \frac{C \cdot A_0}{A_0 \cdot F_{\text{g}} \cdot 2\pi r^2} \quad (1)$$

In the above equation, A_0 is the known activity of ^{137}Cs ($A_0 = 46.59 \text{ Bq}$ as on 01 Oct 1999) point source. The measured efficiency and the fitted efficiency curve are plotted in Fig. 2.

Production of ^{182}Ta radionuclide

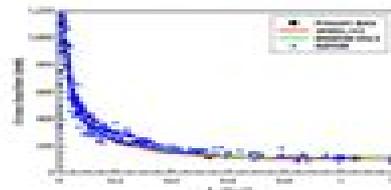


Figure 3: Evaluation function of $^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$ reaction with incident flux and with IAEA/ENDF/B-VIII.0 and JENDL-4.0.

The measurement of the reaction cross-section of the $E_n = 1.051, 290 \text{ keV}$ of ^{182}Ta ($T_{1/2} = 111.7 \text{ d}$) with intensity $I_n = 39.29 \%$ was done after the cooling of 7200 seconds. The nuclear reaction cross-sections were calculated using the following activation formula:

$$\sigma_n = \frac{N_{\text{product}} \cdot \lambda_{\text{product}} \cdot N_{\text{target}} \cdot C_{\text{correct}}}{\Phi_{\text{neutron}} \cdot N_{\text{target}} \cdot C_{\text{correct}}} \quad (2)$$

Fig. 3 shows the evaluation function of $^{181}\text{Ta}(n,\gamma)^{182}\text{Ta}$ reaction at the neutron energies 0.53 and 1.05 MeV, obtained in this study and compared with the existing experimental data and the evaluated data. The necessary corrections resulting from the low-energy background neutron contribution and gamma-ray self-attenuation are considered in the present study.

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