



Contribution ID: 45

Type: Poster

Study of $^{209}\text{Bi}(\gamma, xn)$ photonuclear reactions

Tuesday, 9 July 2024 17:39 (1 minute)

Authors: Miodrag Krmar ¹, Rade Smolović ¹, Nikola Jovančević ¹

¹ Faculty of Science, University of Novi Sad, Novi Sad, Serbia

The cross section values for the $^{209}\text{Bi}(\gamma, xn)$ nuclear reactions are calculated using the different models for the level density and the radiation strength function by the TALYS code [1]. Based on the obtained data, the yields of nuclear reactions are determined. The results of this theoretical calculation are compared with experimental data in the range up to 60 MeV.

Primary authors: JOVANCEVIC, Nikola (University of Novi Sad); SMOLOVIC, Rade (Faculty of Natural Sciences, University of Novi Sad)

Presenter: SMOLOVIC, Rade (Faculty of Natural Sciences, University of Novi Sad)

Session Classification: Poster Session

Track Classification: Level Densities and Photon Strength Functions