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FST23-36 Reviewer Invitation for FS&T

1 message

FST <em@editorialmanager.com> Fri, Feb 17, 2023 at 4:31 AM
Reply-To: FST <fst@ans.org>
To: Tarik Sıddık <tarik.reshid@su.edu.krd>

CC: "Arkady Serikov" arkady.serikov@kit.edu

Feb 16, 2023

FST23-36
A study on Monte Carlo calculations of 14.7 MeV-protons and 3.6 MeV-alphas in 93Nb target

Dear Dr. Sıddık,

The above manuscript [see abstract below] is submitted for publication to Fusion Science and Technology (FS&T). This article is a Technical Paper. To aid in your review, please see descriptions of article types at https://www.tandfonline.com/action/journalInformation?show=aimsScope&journalCode=ufst20.

If you are so kind to do the review within 3 to 4 weeks, please click on the link provided below. Please let me know your interest and availability. **If you cannot do the review, please recommend others [name, e-mail].**

This is the abstract:
Niobium is an important alloying material in nuclear reactors because of its enormous strength, low density, low neutron absorption and high melting point. This study is structured on nuclear data calculations which are based on Monte Carlo simulation approach. The GEANT4, SRIM and TALYS codes were used to create a comprehensive simulation of 3.6 MeV-alphas and 14.7 MeV-protons on 93Nb target. We have presented calculation results on nuclear parameters as ion energy losses, displacements, vacancies, projected ranges and cross sections. A comparison between GEANT4 and SRIM codes were made for projected ranges and ion energy losses. Besides, the calculations of cross section in the TALYS code were carried out using level densities on Skyrme energy density functional and Fermi gas model.

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With kind regards,

Dr. Arkady Serikov
Scientific Staff Member
Fusion Science and Technology

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