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## Invitation to review revision for Applied Radiation and Isotopes

1 message

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**Applied Radiation and Isotopes** <em@editorialmanager.com>  
Reply-To: Applied Radiation and Isotopes <support@elsevier.com>  
To: Tarik Siddik <tarik.reshid@su.edu.krd>

Sat, Dec 3, 2022 at 4:32 PM



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Manuscript Number: ARI-D-22-00830R1  
Simple parametrization of (n,d) cross sections using Flerov and Talyzin's formula

Dear Dr Siddik,

I would like to invite you to review the above referenced revised manuscript, as you kindly reviewed the previous version of this manuscript. Anonymised reviewer comments to author for the previous version are included below.

You should treat this invitation, the manuscript and your review as confidential. You must not share your review or information about the review process with anyone without the agreement of the editors and authors involved, even after publication. This also applies to other reviewers' "comments to author" which are shared with you on decision (and vice versa). For more information please visit: [http://service.elsevier.com/app/answers/detail/a\\_id/14156/supporthub/publishing/](http://service.elsevier.com/app/answers/detail/a_id/14156/supporthub/publishing/)

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Since timely reviews are of utmost importance to authors, I would appreciate receiving your review within 14 days of accepting this invitation.

I hope you will be able to review this manuscript. Thank you in advance for your contribution and time.

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Kind regards,

Ferenc Szelecsenyi  
Receiving Editor

## Applied Radiation and Isotopes

Comments to author for previous version:

Reviewer 1: (Previous Version)

There are several issues to receive an enlarged attention of the authors before this article to be considered for publication.

\* Eq. (14) should be referenced.

\* May the empirical formulas presented in this work be formed considering the odd-even properties of target nuclei?

\* The authors report a systematic study on (n,d) reactions. However, what is the reason for adapting the Flerov and Talyzin's formula for (n,2n) cross sections?

Reviewer 2: (Previous Version)

In this paper, various trends have been observed in (n,d) reaction cross sections on the terms  $\sigma_{\text{total}}$ ,  $\sigma_{\text{elastic}}$ , and  $(\sigma_{\text{total}} - \sigma_{\text{elastic}})/\sigma_{\text{total}}$  at 14-15 MeV. The empirical formulas with asymmetry parameter are found to give a good fit for linear, exponential and polynomial models. The obtained results are reasonable. This manuscript needs several minor changes:

Authors' address form should be based on journal format.

The approximation after the decimal point should be the same in the Tables.

It is better that the name of the X-axis of the Figures is complete.

It is better to reference experimental data in figures, such as (EXFOR, 2022).

Many thanks for the opportunity to review your work.

More information and support

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