



SDI Review Form 1.6

Journal Name:	<u>British Journal of Applied Science & Technology</u>
Manuscript Number:	Ms_BJAST_19827
Title of the Manuscript:	Simulation of low energy neutron shielding by GEANT4 and MCNP4C cod
Type of the Article	Original research papers

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound.

To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments	The manuscript requires major changes and further explanations on many aspects. In my opinion, the paper warrants publication, if the following comments are satisfactorily explained. 1)The author have made some corrections in abstract and conclusions: "new findings" could be opened and explained. The abstract can be still more precise by mentioning the implication of results from analyses. 2)It should be explained in more detail about the simulation geometry. Where is the detector? What is the distance between the source and detector? If you do not have a detector, please explain how you can calculate the relative neutron flux. 3)Which are simulation results shown in Fig 2,3 and 4, using MCNP or GEANT4? 4)The authors can more describe in depth on the neutron flux calculations for Geant4 and MCNP, The relative neutron flux rate is defined as the neutron flux with the shield to the neutron flux without the shield. It would be better if the authors include more details about simulations. 5)Similar results have been reported in many of papers to date about neutron shielding using of concrete and borated concrete. A better literature review in the specific area of neutron shielding related to concrete should be done.	
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments		

Reviewer Details:

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