



**SDI Review Form 1.6**

Journal Name:	<a href="#">Advances in Research</a>
Manuscript Number:	2014_AIR_9685
Title of the Manuscript:	<b>Determination of Cross Section for Different Fusion Reactions in Terms of Lattice Effects in Solid State Internal Conversion for Different metallic Crystalline Environments</b>
Type of the Article	<b>Research article</b>

**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.

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(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



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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)
<b>Compulsory</b> REVISION comments		
<b>Minor</b> REVISION comments		
<b>Optional/General</b> comments	<p>The aim of this work was determination of fusion cross section for different reactions in different metallic environments regarding the lattice effect in solid state internal conversion.</p> <p>The aim is met.</p> <p>The authors have investigated the following elements: Ni, Ru, Rh, Pt, Ta, Ti, Zr.</p> <p>By studying the internal conversion coefficient the authors found that Ni and Ru might be good options.</p> <p>Final review of the results was chosen the best option: nickel (Ni) element.</p>	<p>In other previous works, there weren't mentioned neither the effect of lattice structure on the fusion cross section nor these metals and these reactions. In our work, the cross sections for these metals are obtained by considering both lattice effect and different reactions. Also, these special metals are gathered in this paper not anywhere else.</p> <p>I add discussion to conclusion.</p> <p>The reason for choosing Ni is explained now.( By calculating FCS in term of LEISSIC, Ti and Ni show maximum data. By comparing internal conversion coefficient in term of LEISSIC, the best results belong to Ni and Ru. So Ni can be the best option for the next experimental works.)</p>