

www.sciencedomain.org

SDI Review Form 1.6

Journal Name:	Physical Science International Journal
Manuscript Number:	2014_PSIJ_9686
Title of the Manuscript:	Determination of Cross Section for Different Fusion Reactions in Terms of Lattice Effects in Solid State Internal Conversion in Crystalline Palladium Environment
Type of the Article	

General guideline for Peer Review process:

This journal's peer review policy states that <u>NO</u> manuscript should be rejected only on the basis of '<u>lack of Novelty'</u>, 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:

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

www.sciencedomain.org



SDI Review Form 1.6

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	 missing gaps between many of the words unacceptable links (news, Wikipedia - [2], [3]) incomplete links ([1], [4], [6]) page 2, bottom paragraph (a): "More than 100 percent of deuteriums are immediately absorbed" how it can be absorbed more deuterium than it has (more than 100 percent of total amount?!) can you prove with some reference the acceptance of cold fusion (as claimed on page 1, 6th line from the bottom) In Conclusion is written that "In previous experiments the complete reason for increasing cross section experimentally for these reactions are not explained" From this one can understand that experimental cross-sections are available and the theoretical results should be compared with it. 	
Minor REVISION comments	 stating references in the headline of the paragraph is very unusual put the before every name (eg. the Block theorem, the Wannier function) there are several typing errors in fig 1 (Sievertz-law, surfase temp) page 2 paragraph 2 first row "modification of Peter Kalman" 	

www.sciencedomain.org



SDI Review Form 1.6

-	page 2 paragraph 2 row 4 "article is divided into five"	
-	page 3 first row "deut e riums as sublattice"	
-	page 5 second paragraph row 1 "in the [16]"	
-	page 6 second paragraph – various size of letters	
	in one sentence	
-	page 6 third paragraph row 5 – "The sublattice	
	particle is also described"	
-	equation 3 – pointer is close to the equation not	
	at the end of the line as anywhere else	
_	nage 6 fourth and last naragraph nage & first	
	paragraph – eg "The Coulomb wave function is	
	1" What [] does mean?	
	page 7 before equation 12 missing space	
-	hat was the equation 12 - missing space	
	between the equation and "respectively	
-	page 8 equation 18split to two lines	
-	page 9 6 th row of first paragraph – three kinds	
	of host particles"	
-	page 10, header of table 4 – missing end of the	
	sentence (probably cross-section)	
-	page 11 – differences between maximum and	
	minimum histograms are hard to understand	
	and they should be better explained	
-	page 11 header of table 6 – "The two	
	dimensional seven maximums modes of	
	microscopic cross section" "The maximum	
	cross sections"	
-	page 15 last row – "4He. By" instead of "4He.By"	
	-	 page 2 paragraph 2 row 4 "article is divided into five" page 3 first row "deuteriums as sublattice" page 5 second paragraph row 1 "in the [16]" page 6 second paragraph - various size of letters in one sentence page 6 third paragraph row 5 - "The sublattice particle is also described" equation 3 - pointer is close to the equation, not at the end of the line as anywhere else page 6 fourth and last paragraph, page & first paragraph - eg. "The Coulomb wave function is[]". What [] does mean? page 7 before equation 12 - missing space between the equation and "respectively" page 8 equation 18split to two lines page 9 6th row of first paragraph - "three kinds of host particles" page 10, header of table 4 - missing end of the sentence (probably cross-section) page 11 - differences between maximum and minimum histograms are hard to understand and they should be better explained page 11 header of table 6 - "The two dimensional seven maximums modes of microscopic cross section" "The maximum cross sections" page 15 last row - "4He. By" instead of "4He .By"

www.sciencedomain.org



SDI Review Form 1.6

Optional/General comments	 the topic is still a bit controversial, so a perfect references are absolutely essential to support the research as figures 1 - 4 are stated without any reference, one should assume they were prepared by the authorsis this true? (At least fig 3 can be found on the web) figures 5-13 have units of x-axis in MeV, although the numbers are never higher than 0.03. keV might be more convenient?! list of typesetting errors stated above is definitely not completeplease do a careful proof reading 	
----------------------------------	--	--

Reviewer Details:

Name:	Ondřej Svoboda
Department, University & Country	Nuclear spectroscopy department, Nuclear Physics Institute of the ASCR, pri, Czech Republic