



Russian Nuclear Data Center (CJD, IPPE, Obninsk)

www.ippe.ru

Presentation at NRDC2019, 9-12 April 2019

1. Staff

- 1 leader scientist (20%)
- 1 leading research engineer (20%).

2. EXFOR compilation statistics

Trans	Status	Entries			Subentries		
		Total	New	Rev.	Total	New	Rev.
4178	fin.	133	0	133	1032	36	996
4179	fin.	10	2	8	50	7	43
4180	fin.	19	6	13	66	32	34
4181	fin.	33	4	29	93	27	66
Total		195	12	183	1241	102	1139

3. NRDC2018 Actions

- **A1** At allocation site – 1 article (10-03-2019), 16 (JET) added 12-03-2019, 1(Blinov+) made in trans.4181
- **A2** Corrections: very urgent 37, urgent 21, normal 198 (05-04-2019)
- **A42** Finished in trans.4181 (Some Engl.transl.)
- **A43** Not finished (ref.codes for year as vol.)
- **A59** Finished, draft was prepared by V.N.Manokhin
- **A62,64,66,72,74,83** – Feedbacks were not sent for EXFOR-Editor, InpGraph, GSYS, JANIS TRANS Checker, ZCHEX, X4+ format, aliases

4. Journal YK

- “Yadernye Konstanty” (YK) is continued to be published in IPPE as the online journal “Yadernye and Reaktornye Konstanty” ("Problems of Atomic Science and Technology. Series: Nuclear and Reactor Constants")
- Five regular issues were published during 2018 year
- <https://vant.ippe.ru/>

5. Dosimetry data (K.Zolotarev)

	Reaction	Energy range, MeV	Comment
1	$^{47}\text{Ti}(n,x)^{46}\text{Sc}$	12.60 - 18.10	
2	$^{47}\text{Ti}(n,p)^{47}\text{Sc}$	1.80 - 7.60	
3	$^{48}\text{Ti}(n,x)^{47}\text{Sc}$	12.70 - 18.90	
4	$^{48}\text{Ti}(n,p)^{48}\text{Sc}$	5.60 - 12.20	
5	$^{49}\text{Ti}(n,x)^{48}\text{Sc}$	13.60 - 18.80	
6	$^{50}\text{Cr}(n,g)^{51}\text{Cr}$	0.032 - 3.90	New evaluation
7	$^{55}\text{Mn}(n,2n)^{54}\text{Mn}$	11.30 - 16.10	New evaluation
8	$^{55}\text{Mn}(n,g)^{54}\text{Mn}$	0.027 - 3.70	New evaluation
9	$^{58}\text{Ni}(n,p)^{58m+g}\text{Co}$	1.40 - 10.50	
10	$^{60}\text{Ni}(n,p)^{60m+g}\text{Co}$	4.70 - 10.70	
11	$^{59}\text{Co}(n,p)^{59}\text{Fe}$	3.50 - 9.90	
12	$^{59}\text{Co}(n,2n)^{58m+g}\text{Co}$	11.30 - 16.10	
13	$^{59}\text{Co}(n,3n)^{57}\text{Co}$	20.00 - 26.00	

6. Acknowledgments

- Authors of experimental data:
A.Vorobyev, S.Simakov, N.Fedorov, A.Zontikov
- M.Fleming, M.Bossant for useful comments of preliminary transees
- N.Otsuka for detailed checking of preliminary transees and productive discussions
- L.Vrapseňjak for providing pdf-files of articles,
- V.Zerkin for explanations of covariance matrix coding
- A.Oechs for assistance



IPPE, Obninsk

First Atomic Power Station

65 years

26 June 1954 – 29 April 2002

