

EXFOR/NSR Completeness Checking: Fission Product Yields

(O. Schwerer, B. Pritychenko, Memo CP-C/464, 465 and 466)

**Memo issued on behalf of
National Nuclear Data Center
Brookhaven National Laboratory
USA**

Memo CP-C/464

Date: 29 November 2018
To: Distribution
From: O. Schwerer, B. Pritychenko
Subject: **Completeness check EXFOR vs. NSR: Spontaneous Fission Yields**

We performed a cross-check between NSR and EXFOR for references containing fission yield data. The results for spontaneous fission are listed in the Appendix. The responsible centres are asked to go through the respective parts of the list and compile/update the appropriate entries with priority. The results for photon- and neutron-induced fission will be submitted separately.

- ⤴ The last column in the list contains a proposed action, such as „New entry“ or „Add reference to entry xxxxx“. While this was written to the best of our knowledge, centres are requested to check the respective references in detail and take the final decision on the appropriate action.
- ⤴ While the purpose of this cross-check was to find additional data for fission yields, other related data (such as fission cross sections or delayed neutron data) occasionally also appeared and were kept in the list.
- ⤴ Some potentially relevant references found in NSR turned out to be not relevant for EXFOR. We collected them in a separate part of the list to keep this information on record.
- ⤴ Articles which already appear in EXFOR (e.g. as second or third item under REFERENCE) are not included as they are not new to EXFOR.

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APPENDIX

Area 1 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2010TEZZ	G.M.Ter-Akopian	R,AIP-	1175			2010	1USABRK	1	Compare/update 14331
2008WA15	J.G.Wang	J,PR/C	78		14313	2008	1USABRK	1	ok (Fig.4 could be compiled, all the rest is structure data)
2007GO21	C.Goodin	J,NP/A	787		231c	2007	1USABRK	1	Compare/update 14331
2006DA21	A.V.Daniel	J,PAN	69		1405	2006	1USAANL	1	Compare/update 14331
2006FO10	D.Fong	J,PAN	69		1161	2006	1USABRK	1	Compare/update 14331, 41464
2006GO20	C.Goodin	J,PR/C	74		17309	2006	1USABRK	1	Partly similar to 2006FO10
2005RE06	E.L.Reber	J,JRN	264		243	2005	1USAINL	1	NewEntry
2004DA13	A.V.Daniel	J,PR/C	69		41305	2004	1USABRK	1	Add to 41464
2004GE01	R.J.Gehrke	J,NIM/B	213		10	2004	1USAINL	1	Add ref.to 2005RE06
2003HW08	J.K.Hwang	J,AHP/N	18		383	2003	1USABRK	1	Add to 41464
2002WU03	S.-C.Wu	J,NIM/A	480		776	2002	1USABRK	1	Add ref.to 13807
2001HA67	J.H.Hamilton	J,AHP/N	14		161	2001	1USABRK	1	Add ref.to 13807
2001RA20	A.V.Ramayya	J,PNP	46		221	2001	1USABRK	1	Add to 13807
2000RAZZ	A.V.Ramayya	C,99ST.AND			246	2000	1USAANL	1	NewEntry, He-5
1999HA10	J.H.Hamilton	J,ASL	49		31	1999	1USAVBT	1	Combine with 2000RAZZ
1997HA64	J.H.Hamilton	J,PNP	38		273	1997	1USABRK	1	NewEntry, Xe-140
1997RA39	A.V.Ramayya	J,NC/A	110		1073	1997	1USABRK	1	Compare 1997HA64
1997SA72	A.Sandulescu	J,NC/A	110		1079	1997	1USAVBT	1	Compare 1997RA39
1996DA16	Y.X.Dardenne	J,PR/C	54		206	1996	1USABRK	1	Compare 13747 (Some authors overlap)
1996TE04	G.M.Ter-Akopian	J,PRL	77		32	1996	1USAVBT	1	Similar to many later Gammasphere publications, detailed comparison needed
1995TEZW	G.M.Ter-Akopyan	C,95PETRBG			224	1995	1USAORL	1?	Abstract only, in Russian.
1991LUZX	S.J.Luke	J,BAP	36	4	1348, J10 2	1991	1USAWAU	1	Brief abstract only, to 1990GOZW
1990GOZW	C.A.Gossett	P,A-WAU-1990			7	1990	1USAWAU	1	NewEntry, 1991LUZX
1982WEZV	J.Weber	P,LA-9381-PR			92	1982	1USALAS	1	Update 12709 which has no data points
1977AD05	J.A.Adams	J,NSE	63		41	1977	1USAASU	1	NewEntry
1977LI03	R.J.Lipinski	J,PL/B	66		326	1977	1USAUI	1	NewEntry
1976BEYF	C.E.Bemis	J,BAP	21	8	970, AE10	1976	1USAORL	1	New entry (abstract only, 1 number for compilation)
1976BO40	C.A.Bolig	J,NSE	61		366	1977	1USAASU	1	NewEntry
1974KA13	S.B.Kaufman	J,NIM	115		47	1974	1USAANL	1	NewEntry
1974NIZY	H.Nifenecker	C,73ROCH	2		435	1974	1USABRK	1	NewEntry
1973EIZT	M.E.Eichor	J,DA/B	34B		1034	1973	1USAMIS	1	Ba data only for U233(n,f) which are in 13280. The Cf252-SFY data are in 13278 which should be updated with the Cf249 data
1973FLZQ	K.F.Flynn	R,ANL-	7996		8	1973	1USAANL	1	Add ref.to 13340
1973PLZX	F.Pleasanton	J,BAP	18		628, EK14	1973	1USAORL	1	Only 1 of 4 authors overlaps. Could be combined with 10605 May be added to 14298 (but abstracts without any additional info need not be added to existing entry). No data
1973UNZZ	J.P.Unik	J,BAP	18		627, EK5	1973	1USAANL	1	
1971JO13	W.John	J,PRL	27		45	1971	1USALRL	1	NewEntry
No action for EXFOR									
2016ME10	A.P.Meshik	J,PR/C	93		44614	2016	1USAWAS	1	Chemically fractionated fission in U ore, not for EXFOR
2014LU07	Y.X.Luo	J,PR/C	89		44326	2014	1USABRK	1	Structure data for Nb106, not for EXFOR
2011LI25	S.H.Liu	J,PR/C	83		64310	2011	1USABRK	1	Structure data for Rh114, not for EXFOR
2009LU04	Y.X.Luo	J,NP/A	818		121	2009	1USABRK	1	Structure data for La143,144, not for EXFOR
2002SAZS	G.Savard	R,ANL-02/15				2002	1USAANL	1	No data, nothing for EXFOR
1999HW04	J.K.Hwang	J,PR/C	60		44616	1999	1USAVBT	1	Not for EXFOR
1998SIZW	M.W.Simon	C,97SANIB			270	1998	1USABRK	1	No data for EXFOR
1984BEZU	C.S.Bendall	J,DA/B	45B		1224	1984	1USAASU	1	Abstract only, decay data for Ba isotopes, not for EXFOR
1981BA09	J.D.Baker	J,RCA	28		51	1981	1USAINL	1	No data for EXFOR
1979AT01	M.Attrep	J,JIN	41		1	1979	1USAETS	1	No data for EXFOR Deduced data, no experiment described →
1979GI04	J.Gindler	J,PR/C	19		1806	1979	1USAANL	1	No orig.experiment, not for EXFOR
1973CLZY	A.T.Clem	J,BAP	18		626, EK3	1973	1USAFLA	1	Abstract with no data, found no relation to other publication

Area 2 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2013EL08	J.Elsevier	J,PR/C	88		44321	2013	2ZZZCER	2	NewEntry. β -delayed fission of Tl-180
2005KOZV	Yu N.Kopatch	R,AIP-	798		115	2005	2FR ILL	2	Add ref.to 22938
2005KRZW	L.Krupa	Int.Symp.Exotic Nuclei, Peterhof, Russia,2004	343			2005	2SF JYV	2	NewEntry Emphasis on demonstrating technique, mass distr.measured
2005VAZW	N.Varapai	R,AIP-	798			2005	2ZZZGEL	2	As example
2004ZEZZ	Sh.Zeynalov	12.Intern.Sem.on Int.of Neutrons with Nuclei, Dubna 2004			371	2004	2ZZZGEL	2	Add ref.to 22746
2000BI05	D.C.Biswas	J,EPJ/A	7		189	2000	2ITYPAD	2	NewEntry
2000MUZY	M.Mutterer	C,99ST.AND			316	2000	2GERMPH	2	Add to 23099
1999SMZX	A.G.Smith	R,AIP-	283		481	1999	2FR STR	2	NewEntry
1997GO36	F.Gonnenwein	J,NC/A	110		1089	1997	2FR ILL	2	NewEntry
1997MUZU	M.Mutterer	5.Intern.Sem.on Int.of Neutrons with Nuclei, Dubna 1997			331	1997	2GERMPH	2	2 nd ref.of 22461
1997SEZW	O.Serot	C,97TRIEST	1		476	1997	2FR ILL	2	Small graph on Pu(n,f). More data published elsewhere?
1988AF01	H.Afarideh	J,ANE	15		201	1988	2UK BIR	2	Add ref./data to 22118
1986BU08	C.Budtz-Jorgensen	J,RE	93		5	1986	2ZZZGEL	2	Add ref.to 23175
1986BA24	G.Barreau	J,RE	93		73	1986	2FR GRA	2	NewEntry
1986CA14	F.Caitucoli	J,RE	92		333	1986	2FR GRE	2	NewEntry
1985BA01	G.Barreau	J,NP/A	432		411	1985	2FR GRA	2	NewEntry
1983STZZ	Ch.Straede	P,NEANDC(E)-242	III		36	1983	2ZZZGEL	2	NewEntry
1983TO15	L.Toppare	J,CJC	61		649	1983	2TUKANK	2	Add ref.to 21700
1982ALZW	E.Allaert	P,NEANDC(E)-232	III		4	1982	2ZZZGEL	2	Add ref.to 21788
1981MA03	G.Mariolopoulos	J,NIM	180		141	1981	2FR GRE	2	Add data and ref.to 21743
1980AS05	M.Asghar	J,NP/A	341		388	1980	2FR ILL	2	NewEntry
1980SK02	K.Skarsvag	J,PR/C	22		638	1980	2NORKJL	2	NewEntry
1978ER01	H.N.Erten	J,JIN	40		183	1978	2TUKANK	2	NewEntry
1978JU01	M.Just	J,NIM	283		148	1978	2GERMPH	2	Mainly on detector. Figs.9,10 with rel.data on Pu239(d,pf)
1976YA03	H.Yamamoto	J,NIM	134		119	1976	2JPNKYU	2	NewEntry
1975GO24	H.Gokturk	J.Inorg.Nucl.Chem.	37		2237	1977	2TUKANK	2	NewEntry
1972CA39	M.Cambiaghi	J,NC/A	11		716	1972	2ITYPAV	2	Tern.fiss.U,Pu(n,f), Cf-252-sf
1967RA38	M.N.Rao	J,JIN	29		863	1967	2GERKLN	2	NewEntry

No action for EXFOR

2008TS03	I.Tsekhanovich	J,PRC	78		11301	2008	2FR ILL	2	Structure data of Rb94, not for EXFOR
2000UR01	W.Urban	J,PR/C	61		41301	2000	2FR STR	2	Structure of Te137, nothing for EXFOR
2000UR06	W.Urban	J,PR/C	62		44315	2000	2FR STR	2	Structure of Te139, nothing for EXFOR
1986KA50	I.Kanno	J,NIM/A	251		108	1986	2JAPKTO	2	No data for EXFOR
1986KI03	T.Kimura	J,ARI	37		121	1986	2JAPJAE	2	No data for EXFOR
1975SC21	K.-H.Schmidt	J,PL/B	56		250	1975	2GERTHD	2	Sec.electrons from fission, not for EXFOR
1974BO57	W.Bogi	J,RCA	21		33	1975	2GERTHD	2	Chem.handling of FP, nothing for EXFOR

Area 3 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2017WA32	T.Wang	J,PR/C	96		34611	2017	3CPRBHN	3	NewEntry
2016WA03	T.Wang	J,PR/C	93		14606	2016	3CHPAEP	3	NewEntry
1993DLZZ	Z.Dlouhy	Inst.Phys.Conf.Ser.132,Sect.4			481	1993	3CZRUJF	3	NewEntry
1991RA24	A.Ramaswami	J,RCA	54		163	1991	3INDTRM	3	NewEntry
1990NA27	A.G.C.Nair	J,JRN	140		215	1990	3INDTRM	3	Add ref.to 33062
1990RA17	M.N.Rao	J,NIM/B	51		102	1990	3INDTRM	3	New entry
1988SE05	D.Seeliger	J,SNP	47		403	1988	3DDRTUD	3	Add ref.and data to 30969, or new entry
1985KO14	A.J.Kordyasz	J,NP/A	439		28	1985	3POLIBJ	3	NewEntry
1981SEZW	H.A.Selic	P,JUEL-SPEZ-	99		69	1981	3ISLWZI	3	Mainly gamma data of FF. Possibly Fig.7 for compilation, See also 1981SEZV
1980BAYJ	R.Baier	C,80KIEV	3		20	1980	3CSRUF	3	New entry (in Russian)
1979SEZV	H.A.Selic	Inst.Phys.Conf.Ser.51,Chapter 5			316	1979	3ISLWZI	3	NewEntry
1970KAZN	S.S.Kapoor	C,70MADURAI	2		349	1970	3INDTRM	3	Add ref.to 33071
No action for EXFOR									
1977GOZI	N.Golczar	P,INDC(SEC)-61			190	1977	3ISLHFA	3	Abstract with no data
1977RAYS	M.N.Rao	C,77PUNE	20B		253	1977	3INDIND	3	Abstract with no data

Area 4 references

NSR Key#	First Author	Publication	Vol	Issue Page	Year	Lab	Area	Action
2012PY01	Yu.V.Pyatkov	J,EPJ A	48	94	2012	4ZZZDUB	4	Complex experiment, complex graphs, possibly neutron multiplicities for compilation
2005PYZX	Yu.V.Pyatkov	Int.Symp.Exotic Nuclei, Peterhof, Russia,2004	351		2005	4ZZZDUB	4	Complex graphs, no tables, probably not for Exfor
2005PYZY	Yu.V.Pyatkov	P,JINR-E15-2005-54th Ann.Conf.Nucl.Spectrosc.At.Nuclei,		99	2005	4ZZZDUB	4	Similar to 2005PYZX
2004GAZZ	Yu.P.Gangrsky	Dubna 2004		80	2004	4ZZZDUB	4	Short note in Russian with table, possibly new entry
2004PYZZ	Yu.V.Pyatkov	P,JINR-E15-		65	2004	4ZZZDUB	4	Similar to 2005PYZX
2003PY01	Yu.V.Pyatkov	J,PAN	66	631	2003	4ZZZDUB	4	Similar to 2005PYZX
2000SHZY	V.I.Shpakov	C,99ST.AND		227	2000	4RUSRI	4	Add ref.to 41425
1996IVZY	M.P.Ivanov	P,JINR-P15-96-		206	1996	4ZZZDUB	4	Add ref.to 41310
1995ANZT	M.Andrassy	P,JINR-E7-95-		148	1995	4ZZZDUB	4	NewEntry
1989ALZU	D.V.Aleksandrov	C,99TASHKE		570	1989	4RUSKUR	4	Abstract only, in Russian, probably no data
1988AL39	I.D.Alkhazov	J,SNP	48	420	1988	4RUSRI	4	NewEntry
1982AL33	D.V.Aleksandrov	J,YF	36	1351	1982	4RUSKUR	4	Probably new entry (in Russian, short Engl.abstract)
1982ALZJ	D.V.Aleksandrov	C,82KIEV		368	1982	4RUSKUR	4	Abstract only, in Russian, not sure about data
1982ALZK	D.V.Aleksandrov	C,82KIEV		367	1982	4RUSKUR	4	Abstract only, in Russian, not sure about data
1979BO14	A.A.Borovoy	J,JP/G	5	723	1979	4RUSKUR	4	New entry (upper limit for some LCP)
1979BA53	B.G.Basova	J,SJA	46	282	1979	4RUSNIR	4	Add ref.and some data (Pu239(n,f)) to 40420
1979ZA02	Y.S.Zamyatnin	J,YF	29	595	1979	4RUSNIR	4	Add ref.to 40479
1977PI04	V.M.Piksaikin	J,YF	25	723	1977	4RUSFEI	4	In Russian. Possible relation to 40450 needs further checking
1973DO11	A.G.Donichkin	J,SNP	17	489	1973	4RUSRI	4	Add ref.to 40459
1973GR39	A.P.Graevskii	J,SNP	18	369	1973	4RUSLIN	4	Add to 40423
1972IV01	O.I.Ivanov	J,SNP	15	620	1972	4RUSNIR	4	NewEntry
No action for Exfor								
2005VOZX	A.S.Vorobyev	R,AIP-	769		2005	4RUSLIN	4	Same as 2 nd ref.of 41425.
1990AL40	D.V.Aleksandrov	J,SNP	52	593	1990	4RUSKUR	4	Search for multineutrons in spont.fiss. Nothing for Exfor

**Memo issued on behalf of
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Memo CP-C/465

Date: 30 January 2019
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Subject: **Completeness check EXFOR vs. NSR: Photofission Yields**
Reference: CP-C/464

We performed a cross-check between NSR and EXFOR for references containing fission yield data. The results for photon-induced fission are listed in the Appendix. (For yields from spontaneous fission see CP-C/464). Again, the responsible centres are asked to go through the respective parts of the list and compile/update the appropriate entries with priority. The general remarks of CP-C/464 apply here also. In addition, the following should be noted:

- If in the section „No action for EXFOR“ we say „Probably not relevant“, the responsible centre may want to double-check our conclusion.
- In case of conferences, if instead of a code from dictionary 7 the title of the conference is given, a proposal for a dictionary code will have to be submitted at time of compilation.
- If after a conference code it says „(Abstract)“, the page number refers to a book of abstracts, not to proceedings.

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APPENDIX

Area 1 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2000CO03	T.E.Cowan	J,PRL	84		903	2000	1USALRL	1	New entry (U-238(g,f) mass distr.)
1991SM04	J.R.Smith	J,PR/C	44		1198	1991	1USANMS	1	NewEntry
1990WI15	W.Wilke	J,PR/C	42		2148	1990	1USAUI	1	NewEntry (U(g,f) cross section, rel.mass distr.)
1987VA18	W.J.Varhue	J,ARI	38		561	1987	1USAVIR	1	NewEntry (Cross section, nothing on fission products)
1977KNZW	J.W.Knowles	P,INDC(SEC)-	62		129	1977	1USAUI	1	Abstract, no data. Related to M0504
1976JA08	W.D.James	J,JIN	38		1109	1976	1USAWSA	1	NewEntry
1973ALYV	J.W.Knowles	C,Asilomar (Photonuclear		1	647	1973	1CANCRC	1	Related to M0504. Add ref.and (g,n), (g,abs) cs data from graphs. No FY data.
1973CH15	A.Chattopadhyay	Reactions)	35		2621	1973	1CANTOR	1	NewEntry

Area 2 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2017GO16	A.Gook	J,PR/C		96	44301	2017	2GERTHD	2	NewEntry
2003HA18	H.Haba	J,CZJ		53	A265	2003	2JPNKEK	2 / K	Add mass distr. and data for Au-197(g,f) to K2022
2003SC25	H.Schwoerer	J,EUL		61	47	2003	2GERJEU	2	NewEntry
1998TA13	N.Takahashi	J,RCA		80	171	1998	2JPNTOH	2	NewEntry
1997BO17	C.Bockstiegel	J,PL		398	259	1997	2GERGSI	2	NewEntry
1997PE09	K.Persyn	J,NP/A		620	171	1997	2BLGGHT	2	NewEntry
1994PO06	S.Pomme	J,NP/A		572	237	1994	2BLGGHT	2	NewEntry
1993PI05	M.Piessens	J,NP/A		556	88	1993	2BLGGHT	2	NewEntry
1993PO10	S.Pomme	J,NP/A		560	689	1993	2BLGGHT	2	NewEntry
1992KA26	T.Kase	J,NSE		111	368	1992	2JPNTOH	2	NewEntry (mass distr.)
1990VE08	M.Verboven	J,PR/C		42	453	1990	2BLGGHT	2	NewEntry (mass distr.)
1988WI15	W.Wilke	J,PL/B		207	385	1988	2GERJLU	2	NewEntry
1988WI20	W.Wilke	J,NIM/A		272	785	1988	2GERJLU	2	Combine with 1988WI15
1987LO19	S.Lo Nigro	J,NC/A		98	643	1987	2ITYFRA	2	NewEntry
1985BE16	V.Bellini	J,NC/A		85	75	1985	2ITYFRA	2	NewEntry (cs, nothing on fiss.products)
1985DR01	J.Drexler	J,NP/A		437	253	1985	2GERTHS	2	NewEntry (photofiss.ratio of nsec isomer)
1984DE13	D.De Frenne	J,PR/C		29	1777	1984	2BLGGHT	2	NewEntry
1983BE15	V.Bellini	J,NCL		36	587	1983	2ITYFRA	2	Probably to be added to M0789
1983CA27	G.P.Capitani	J,NIM		216	307	1983	2ITYFRA	2	Mainly descr.of facility; perhaps Fig.12 related to M0789
1982DE38	D.De Frenne	J,PR/C		26	1356	1982	2BLGGHT	2	New entry. (Similar to L0066, but at different EN)
1982TH04	H.Thierens	J,PR/C		25	1546	1982	2BLGGHT	2	NewEntry
1980JA01	E.Jacobs	J,PR/C		21	237	1980	2BLGGHT	2	NewEntry
1979JA02	E.Jacobs	J,PR/C		19	422	1979	2BLGGHT	2	NewEntry
1979JA28	E.Jacobs	J,PR/C		20	2249	1979	2BLGGHT	2	NewEntry
1978GA22	H.Gaggeler	J,JIN		40	1859	1978	2SWTUBE	2	NewEntry
1978LI06	L.J.Lindgren	J,NP/A		298	43	1978	2SWDLND	2	NewEntry
1977DE10	D.De Frenne	J,PR/C		15	1440	1977	2BLGGHT	2	New entry
1976AL15	A.Alm	J,NP/A		271	1	1976	2SWDLND	2	NewEntry. Possibly combine with 1978LI06
1976DE10	A.De Clercq	J,PR/C		13	1536	1976	2BLGGHT	2	New entry
1972AN19	G.Andersson	J,NP/A		197	44	1972	2GERHAM	2	New entry
1966SA17	K.Sakamoto	J,JIN		28	679	1966	2JAPTOK	2	New entry
1965KI02	T.Kivikas	J,NP		64	420	1965	2SWDLND	2	New entry

Other new data found

1979NIZX	T.Nishi	R,NEANDC(J)-		61/U	68	1979	2JPNKTO	2	Th-232(alpha,f), nothing on photofission
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No action for EXFOR

2002IB01	F.Ibrahim	J,EPJ/A		15	357	2002	2ZZZCER	2	Probably not relevant for Exfor
1993PI17	M.Piessens	J,NIM/B		82	7	1993	2BLGGHT	2	Probably not relevant for Exfor
1982DE53	E.De Sanctis	J,NIM		203	227	1982	2ITYFRA	2	Similar to 1983BE15. Some continuous curves for demo, Probably not for Exfor

Area 3 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2011RA37	H.G.Raj Prakash	J,IMP/E C,Int.School on Contemporary Physics-III, Ulaanbaatar, Mongolia,	20		2361	2011	3INDMNG	3	Add Fig.8 data to G0504 ?
2005NOZZ	N.Norov	Aug. 8-15, 2005			30	2005	3MGLNUM	3	NewEntry
1985KA24	S.Kahane	J,PR/C	32		1944	1985	3ISLNEG	3	NewEntry
1979AR12	J.D.T.Arruda Neto	J,NCL	26		487	1979	3BZLUSP	3	New entry
1979KAYW	S.Kahane	C,Conf.Nucl.Spectrosc.Fission Products, Grenoble			315	1979	3ISLNEG	3	NewEntry
1978WOZS	Wolf	C,78BNL			811	1978	3ISLNEG	3	NewEntry
1978WOZZ	Wolf	C,78BNL			808	1978	3ISLNEG	3	New entry, Gam(n)/Gam(f), nothing on FY

Area 4 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2017ZH17	V.O.Zheltonozhskiy	J,UJP	62		285	2017	4UKRIEP	4/M	NewEntry
2014IS05	B.S.Ishkhanov	J,PAN	77		824	2014	4RUSMOS	4/M	NewEntry
2013DE15	V.V.Denyak	J,EPJ/A	49		51	2013	4UKRKFT	4/M	NewEntry (fragm.mass distr., graphs)
2013GA45	Yu.P.Gangrskii	J,PPN/L	10		422	2013	4ZZZDUB	4/M	M0868 needs correction (Table 2 compiled incorrectly)
2011KA44	V.I.Kasilov	Vis.Khar.Nat.Univ.	95	2(50)	37	2011	4UKRKFT	4/M	Check for relevance (article in ?Ukrainian)
2010GA21	Yu.P.Gangrsky	J,PAN	73		1523	2010	4ZZZDUB	4/M	NewEntry
2010ZHZZ	V.A.Zheltonozhskij	C,2010STPETR (Book of abstracts)			170	2010	4UKRIEP	4/M	Data are in G4038. Possibly SIG/RAT can be replaced by FY/RAT (numerically equivalent)
2009BAZU	J.Badamsambuu	S,AIP-	1109		16	2009	4ZZZDUB	4/M	New entry; compare M0868
2008DE01	N.A.Demekhina	J,PAN	71		27	2008	4ARMJER	4/M	NewEntry
2008VIZY	I.N.Vishnevsky	C,58th Ann.Conf.Nucl.Spectrosc.and Nucl.Structure, Moscow (Abstract)			134	2008	4UKRIEP	4/M	This short abstract could be added as 3 rd ref.to G4028
2005BEZW	O.A.Bezshyyko	S,AIP-	769			2005	4UKRIEP	4/M	Add ref.to M0681 (same data) Table 1 (most probable mass) could be compiled in new entry;
2005GA62	Yu.P.Gangrsky	J,BAS	69		1796	2005	4ZZZDUB	4/M	However not clear whether this is orig.experiment
2005GAZP	Yu.P.Gangrski	P,JINR-P15-			210	2005	4ZZZDUB	4/M	Add ref.to M0811; correct in sub.6: CM-238 → CM-248
2004GAZV	Yu.L.Gangrsky	P,JINR-P15-			119	2004	4ZZZDUB	4/M	Add ref.to M0683 (same data)
2004GAZY	Yu.P.Gangrsky	C,2004BELGOR (Abstract)			81	2004	4ZZZDUB	4/M	Add ref.to M0683
2004GAZZ	Yu.P.Gangrsky	C,2004BELGOR (Abstract)			80	2004	4ZZZDUB	4/M	Add ref.to M0813
2003GAZX	Yu.P.Gangrsky	C,2003MOSCOW (Abstract)			182	2003	4ZZZDUB	4/M	Add ref.to M0683
2004GA60	Yu.P.Gangrsky	J,BAS	68		1298	2004	4ZZZDUB	4/M	Add ref.to M0683
2003GAZS	Yu.P.Gangrsky	P,JINR-P15-			192	2003	4ZZZDUB	4/M	Add ref.to M0683 and/or M0655 (Pu-244) (in Russian)
2003PE17	Yu.E.Penionzhkevich	J,PAN	66		1407	2003	4ZZZDUB	4/M	Add ref.to M0655 (overview article)
2003RA23	D.N.Rassadov	J,CZJ	53		A339	2003	4ZZZDUB	4/M	NewEntry
2002GAZR	Yu.P.Gangrsky	P,JINR-P15-			188	2002	4ZZZDUB	4/M	Add ref.to M0655
2002GAZT	Yu.P.Gangrsky	P,JINR-E15-			147	2002	4ZZZDUB	4/M	Add ref.to M0655
2001GAZU	Yu.P.Gangrsky	C,2001SAROV (Abstract)			212	2001	4ZZZDUB	4/M	Compare M0655 (in Russian)
2000GA60	Yu.P.Gangrsky	J,Part. and Nucl., Lett. (=PPN/L ?)	103		5	2000	4ZZZDUB	4/M	Compare M0655 (in Russian)
2000KA25	S.A.Karamian	J,PAN	63		718	2000	4ZZZDUB	4/M	Data are in both M0620 and M0621, combine entries?
2000OGZY	Yu.Ts.Oganessian	P,JINR-E7-			83	2000	4ZZZDUB	4/M	New entry? (Graph of Rel.yield of Sn isotopes)
1996KAZT	S.A.Karamian	P,JINR-P15-			229	1996	4ZZZDUB	4/M	NewEntry
1995SO25	A.S.Soldatov	J,AE/T	78		386	1995	4RUSFEI	4/M	New entry, Pa-131(g,f) cross section
1992IV03	D.I.Ivanov	J,SNP	55		1464	1992	4RUSSIB	4/M	NewEntry (graph, mass distr.of fiss.fragm.)
1991TO10	A.P.Tonchev	J,JRN	155		299	1991	4ZZZDUB	4/M	NewEntry
1989GA23	P.P.Ganich	J,SJA	66		245	1989	4UKRIEP	4/M	NewEntry (Delayed neutron yield ratio U/Th)
1987SO17	A.S.Soldatov	J,SNP	46		389	1987	4RUSFEI	4/M	NewEntry (Pa-131(g,f) cross section)
1984GAZN	P.P.Ganich	C,83KIEV	2		275	1984	4UKRIEP	4/M	Add ref.to M0167
1984KOZD	M.Ya.Kondratko	C,83KIEV	2		47	1984	4RUSTIL	4/M	Compare M0089; possibly Pu-239 data to be added
1983OS06	Yu.B.Ostapenko	J,JEL	37		666	1983	4RUSIFP	4/M	Add to M0075
1981AN09	A.P.Antipenko	J,YF	33		310	1981	4UKRKFT	4/M	Check (In Russian), probably nothing on fiss.prod.
1980KOYL	M.Ya.Kondratko	C,80KIEV	3		148	1980	4RUSTIL	4/M	Add ref.to M0076
1980TEZX	V.F.Teplykh	C,80KIEV	3		171	1980	4RUSTIL	4/M	Add ref.to M0082
1975ZH02	V.E.Zhuchko	J,JEL	22		118	1975	4RUSIFP	4/M	Add ref.to M0004
1973KO08	M.Y.Kondratko	J,SJA	34		69	1973	4RUSTIL	4/M	Compare M0198

No action for EXFOR

2004BE40	A.D.Belyaev	J,PAN	67		1424	2004	4CCPKUR	4/M	Cannot find data for Exfor, probably not relevant
1984GA35	P.P.Ganich	J,SJA	57		797	1984	4UKRIEP	4/M	Paper rather not relevant for Exfor
1983GA21	P.P.Ganich	J,SJA	55		693	1983	4UKRIEP	4/M	Paper rather not relevant for Exfor

**Memo issued on behalf of
National Nuclear Data Center
Brookhaven National Laboratory
USA**

Memo CP-C/466

Date: 19 February 2019
To: Distribution
From: O. Schwerer, B. Pritychenko
Subject: **Completeness check EXFOR vs. NSR: Neutron-induced fission yields**
Reference: CP-C/464, CP-C/465

We performed a cross-check between NSR and EXFOR for references containing fission yield data. The results for neutron-induced fission are listed in the Appendix. (For yields from spontaneous fission see CP-C/464, for photofission yields see CP-C/465). Again, the responsible centres are asked to go through the respective parts of the list and compile/update the appropriate entries with priority.

The general remarks of CP-C/464 and CP-C/465 apply here also. In addition it should be noted that for some minor references (short abstracts in conference proceedings or progress reports) we had only the relevant paragraphs but not the cover page of the document, so the correct REFERENCE code could sometimes not be verified. Anyway, while such abstracts have to be listed in a completeness check, their addition to an existing entry is discouraged in LEXFOR (page R.7) unless they contain additional useful information.

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APPENDIX

Area 1 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2014BH11	C.Bhatia	J,NDS	119		324	2014	1USATNL	1	Add 4.6 MeV data to 14423? (Figs.6-8)
2013ME05	L.A.Metz	J,JRN	296		763	2013	1USAWSU	1	Compare 14441
2012FI07	E.Finn	J,JRN	293		267	2012	1USABNW	1	Compare 14441
2011HA54	R.C.Haight	J,KPS	59		1553	2011	1USALAS	1	Add ref.to 14290 (no FY, only fission neutron spectra)
2010SE15	H.D.Selby	J,NDS	111		2891	2010	1USALAS	1	NewEntry
1997CHZV	W.Charlton	C,97TRIEST	1		491	1997	1USATAM	1	New entry. Del.neutron yield, no FY data.
1986CO07	G.Couchell	J,RE	94		33	1986	1USALTI	1	Add ref.to 13800
1986RE06	P.L.Reeder	J,RE	94		93	1986	1USABNW	1	Add ref.to 12945
1986SC17	W.Schier	J,RE	94		77	1986	1USALTI	1	Add ref.to 13800
1985ROZU	L.Robinson	J,DA/B	45		3818	1985	1USAWAS	1	Add ref.to 13183 (to be confirmed)
1984SEZW	T.M.Semkow	J,DA/B	44		3401	1984	1USAWAS	1	Add ref.to 12813
1984SC45	W.A.Schier	J,NIM	227		549	1984	1USALTI	1	Add ref.to 13800
1982PAZQ	D.K.Pal	J,DA/B	43		1845	1982	1USAMIS	1	Add reference and additional data from Diss.Abst.to 10995
1981LAZW	S.T.Lam	J,BAP	26		1118(AE2)	1981	1CANALA	1	Add ref.to 12843
1980WAZP	R.W.Waldo	J,DA/B	41		1471	1980	1USALRL	1	Add ref.to 12926
1979GI04	J.Gindler	J,PR/C	19		1806	1979	1USAANL	1	Compare 13340
1979ST16	R.B.Strittmatter	J,NIM	166		473	1979	1USAUI	1	Add ref.to 10722 and update data
1978DIZU	J.K.Dickens	R,ORNL/NUREG/TM-			223	1978	1USAORL	1	Add ref.to 10894. Same data
1976DIZQ	G.Dilorio	J,BAP	21	8	982(BF6)	1976	1USAUI	1	Add ref.to 13359
1975DE06	J.R.De Laeter	J,CJP	53		775	1975	1CANMCM	1	NewEntry
1975MAZV	W.J.Maeck	J,BAP	10		151(FA3)	1975	1USAINL	1	Add ref.to 13327
1974KA13	S.B.Kaufman	J,NIM	115		47	1974	1USAANL	1	NewEntry
1974KAYP	J.H.Kaye	C,73ROCH	2		498(1)	1974	1USABNW	1	Abstract, no data, can be added to 13274
1974REZS	P.L.Reeder	C,73ROCH	2		498(2)	1974	1USABNW	1	Abstract, no data, can be added to 13207
1973FLZQ	K.F.Flynn	R,ANL-	7996		8	1973	1USAANL	1	Add ref.to 10516
1972KU02	G.Kugler	J,PR/C	5		551	1972	1CANMCM	1	New entry (rel.spectra of light tern.fission prod.)
1972LAZL	R.P.Larsen	J,ANS	15		483	1972	1USAANL	1	Add to 12771 and/or 13337
1972SWZV	D.L.Swindle	J,DA/B	32		5093(1)	1972	1USAARK	1	Add ref.to both 13291 and 13292
1971JO13	W.John	J,PRL	27		45	1971	1USALRL	1	New entry
1970FOZV	L.Forman	C,Conf.Prop.Nuclei Far from Region of Beta-Stability, Leysin, Switzerland	1		589	1970	1USALAS	1	Add ref.to 13267
1970HO20	D.L.Horrocks	J,NP/A	151		65	1970	1USAANL	1	NewEntry
1969HAZQ	R.M.Harbour	J,DA/B	30		1578(1)	1969	1USAMIS	1	Add ref.to 13282 and 13283
1968ROZZ	M.R.Roche	T,ROCHE			1968	1968	1USAMIS	1	Add ref.and Pd-115 data to 13288

No action for EXFOR

2006MYZZ	W.L.Myers	C,2006VANCOU			B057	2006	1USALAS	1	No FY data, nothing for EXFOR
2005AR07	R.Aryaeinejad	J,JRN	264		165	2005	1USAINL	1	No FY data, nothing for EXFOR
1989CU11	D.Curtis	J,Applied Geochemistry	4		49	1989	1USALAS	1	Not for EXFOR. It is on FP retention in natural Oklo reactor
1989LO15	R.D.Loss	J,Chemical Geology	76		71	1989	1USALAS	1	Not for EXFOR. It is on FP retention in natural Oklo reactor
1988LO16	R.D.Loss	J,EPL	89		193	1988	1USALAS	1	Table 3 has cum.yields but derived from lit.for comp.with Oklo
1984PI16	A.Piotrowski	J,NIM	224		1	1984	1USABNL	1	Demo of ion source, rel.data without errors rather not for EXFOR
1982DI10	G.J.DiLorio	J,NIM	198		461	1982	1USAANL	1	Cannot find any result for EXFOR
1981DI05	J.K.Dickens	J,NSE	78		126	1981	1USAORL	1	Time-dep.gamma yields and energy release, not for EXFOR
1977LUZZ	B.R.Luers	J,BAP	22		611(HE12)	1977	1USACOL	1	No data, and no related entry in EXFOR
1976BIZM	G.Bischoff	R,CERN-76-	13		55	1976	1CANTMF	1	Rel.bulk gamma spectra, rather not for EXFOR
1973LEYZ	J.H.Lee	J,BAP	18		1411(DE6)	1973	1USANAS	1	No data in abstract. Could not find related full publication with data in EXFOR
1973REZJ	Y.K.Rengan	J,BAP	18		1417(EC8)	1973	1USAMHG	1	No data in abstract. Could not find related full publication with data in EXFOR
1972MO21	M.S.Moore	J,PRL	29		504	1972	1USALAS	1	Probably no data for EXFOR
1972RU01	F.H.Ruddy	J,PR/C	5		549	1972	1USASTB	1	Range of fission fragments, no EXFOR quantity
1969HA27	R.M.Harbour	J,IIN	31		2273	1969	1USAORL	1	No data for EXFOR

Area 2 references

NSR Key#	First Author	Publication	Vol	Page	Year	Lab	Area	Action
2017HA29	A.Hable	J,JRN	314	1471	2017	2GERMUN	2	New entry? No new data on FY. Fiss.cs determined indirectly using FY data from lit.
2015MAZY	T.Materna	J,EPJ/CS	93	2020	2015	2FR ILL	2	New entry? Some prelim.data for cold neutrons
2014AL18	A.Al-Adili	J,NDS	119	342	2014	2ZZZGEL	2	Analysis and discussion related to 23164
2014LH02	G.Lhersonneau	J,HI	223	253	2014	2SF JYV	2	Add ref.and data to 23188
2014SI16	V.D.Simutkin	J,NDS	119	331	2014	2BLGLVN	2	New entry, related to 23119
2013VO03	W.von Oertzen	J,APP/ B	44	447	2013	2FR ILL	2	Probably no orig.data, but check if in particular refs./15/ (=2010PY02, see area 4) and /17/ of this article need to be compiled
2011HAZZ	F.-J.Hambsch	C,Int.Sem.Int.of Neutrons with Nuclei, Dubna, May 26-29, 2010		92	2011	2ZZZGEL	2	22690 has prelim.results acc.to authors (in spite of 9 years in between references). Perhaps just update 22690
2010GAZY	A.Gagarski	S,AIP-	1175	323	2010	2FR ILL	2	Asymm.of tern.fiss.products, rather exotic data – new entry?
2009MAZP	S.Marrone	S,AIP-	1109	78	2009	2ZZZCER	2	Summary of nTOF project with some prelim.results in graph form. Can be added to 23072 and 23128 and possibly other entries with nTOF data
2006HO05	F.Hosni	J,NIM/ B	247	205	2006	2FR PAR	2	Rel.in-target yields for Rb and Cs isotopes; for Exfor?
2005BIZX	E.Birgersson	S,AIP-	798	349	2005	2FR ILL	2	NewEntry
2005KOZV	Yu N.Kopatch	S,AIP-	798	115	2005	2FR ILL	2	Add ref.to 22938
2005SEZT	O.Serot	S,AIP-	798	182	2005	2FR ILL	2	New entry
2004ZEZZ	Sh.Zeynalov	C,12th Int.Sem.on Int.of Neutrons with Nuclei, Dubna, May 26-29, 2004		371	2004	2ZZZGEL	2	Add to 22746
2003CS04	M.Csatlos	J,APP/B	34	2119	2003	2GERKFK	2	NewEntry
2003GO39	F.Gonnenwein	J,AHP/N	18	419	2003	2FR ILL	2	Add ref.to 22925
2003KN01	K.Knie	J,NP/A	723	343	2003	2GERMUN	2	NewEntry
2003KR23	A.Krasznahorkay	J,AHP/N	18	323	2003	2GERMUU	2	Add ref.to O1290 (d,pf)
2002HAZU	Hambsch	R,EUR-20412-EN		46	2002	2ZZZGEL		NewEntry (Pu-240 mean TKE of FF)
2002OBZY	Oberstedt	R,EUR-20412-EN		53	2002	2ZZZGEL		NewEntry (LCP ylds for Cf-252(n,f)); see also Erratum EUR-20684-EN (2003), p.72
2002OBZZ	Oberstedt	R,EUR-20412-EN		49	2002	2ZZZGEL		NewEntry (LCP ylds for U-235(n,f))
2002CSZZ	M.Csatlos	P,ATOMKI-AR-2001		8	2002	2GERKFK	2	Combine with 2003CS04
2000GAZW	J.Galy	C,99ST.AND		200	2000	2SWDSWR	2	Summary, may be added to 22798
2000ROZY	D.Rochman	P, Univ.Mainz, Inst.f.Kernchemie,2000		A2	2000	2FR ILL	2	Abstract with no data, can be added to 22805
2000VIZY	F.Vives	C,99ST.AND		235	2000	2ZZZGEL	2	Analysis of experimental results reported elsewhere. U238 data are in 22402, Np237 in 22470. U235 data not in Exfor, details perhaps in other publication?
1999GE01	J.Genevey	J,PR/C	59	82	1999	2FR ILL	2	NewEntry
1999KO26	U.Koster	J,NP/A	652	371	1999	2FR ILL	2	Add ref.to 23098
1999TA10	K.Takamiya	J,JRN	239	117	1999	2JAPKTO	2	NewEntry
1999TS07	I.Tsekhanovich	J,NP/A	658	217	1999	2FR ILL	2	NewEntry
1999ANZX	M.Andoh	R,INDC(JPN)-	184	21	1999	2JPNJAE		Del.neutron yields, no FY data. New exp.related to area 1 work 1997CHZV
1998DAZJ	M.Davi	S,AIP-	447	239	1998	2FR ILL	2	This is 2 nd ref.of 23179
1998ELZZ	A.Elhardt	P,BLM-JB-1997		49	1998	2GERMUU	2	New entry possible (1 pnt DATA-MAX)
1998GEZX	J.Genevey	S,AIP-	455	694	1998	2FR ILL	2	Not related to data of 22958. New entry, combine with 1999GE01
1997GO36	F.Gonnenwein	J,NC/A	110	1089	1997	2FR ILL	2	NewEntry
1997JOZY	P.I.Johansson	C,97TRIEST	1	652	1997	2SWDUPP	2	NewEntry
1997KEZY	M.A.Kellett	C,97TRIEST	1	482	1997	2UK BIR	2	No results, prelim.report on project on delayed neutrons. Where are the final data?
1997SEZW	O.Serot	C,97TRIEST	1	476	1997	2FR ILL	2	Add ref.to 22432
1996WA04	C.Wagemans	J,NP/A	597	188	1996	2FR ILL	2	New entry
1995GR08	U.Graf	J,ZP/A	351	281	1995	2FR ILL	2	New entry
1994TH07	J.P.Theobald	J,PAN	57	1120	1994	2GERTHD	2	No original data for Exfor.
1993ZOZZ	P.Zoller	S,JINR-E4-93-58		351	1993	2GERJUL	2	Continuous curves. Add ref. to 22799
1993BAYY	W.Baum	S,JINR-E4-93-58		356	1993	2FR ILL	2	NewEntry
1993BAYZ	W.Baum	S,JINR-E4-93-58		353	1993	2FR ILL	2	NewEntry

Area 2 references (cont.)

1993BAZG	W.Baum	C,6thIntern.Conf.on Nuclei Far from Stability + 9th Intern.Conf.on Atomic Masses and Fundamental Constants, Bernkastel-Kues, Germany, 19-24 July, 1992 =Inst.Phys. Conf.Ser.132,Section 4	477	1993	2FR ILL	2	NewEntry, combine with 1993BAYZ	
1993BEZM	M.Bernas	C,6 th Intern.Conf.on Nuclei Far from Stability + 9th Intern.Conf.on Atomic Masses and Fundamental Constants, Bernkastel-Kues, Germany, 19-24 July, 1992 =Inst.Phys. Conf.Ser.132,Section 5	557	1993	2FR ILL	2	Add ref.and possibly data to 22257	
1993DE47	H.O.Denschlag	J,RCA	62	177	1993	2FR ILL	2	New entry (mainly decay data; some fract.ind.yields in Table 3)
1992BEZN	M.Bernas	R,IPNO-DRE-	92-25		1992	2FR ILL	2	Same as 1993BEZM (related to 22257)
1992BEZP	M.Bernas	C,6 th Intern.Conf.on Nuclei Far from Stability + 9th Intern.Conf.on Atomic Masses and Fundamental Constants, Bernkastel-Kues, Germany, 19-24 July, 1992 (Abstract)		E11	1992	2FR ILL	2	Abstract, no data, related to 1992BEZP and 1993BEZM and 22257
1992ER03	H.N.Erten	J,JRN	166	187	1992	2TUKTUK	2	NewEntry
1992KA23	J.Kaufmann	J,ZP/A	341	319	1992	2FR ILL	2	NewEntry
1991BO36	N.Boucheneb	J,NP/A	535	77	1991	2FR ILL	2	NewEntry
1990BEZP	M.Bernas	R,IPNO-DRE-	90	20	1990	2FR ILL	2	Add ref.to 22257
1990DIZY	W.Ditz	P, Univ.Mainz, 1989 Ann.Rept.		16	1990	2GERMNZ	2	NewEntry
1990FAZY	H.R.Faust	P, Univ.Mainz, 1989 Ann.Rept.		20	1990	2GERMNZ	2	New entry
1989BO37	N.Boucheneb	J,NP/A	502	261c	1989	2FR ILL	2	NewEntry
1989DIZY	W.Ditz	P, Univ.Mainz, 1988 Ann.Rept.		23	1989	2GERMNZ	2	NewEntry, combine with 1990DIZY
1989SIZS	J.L.Sida	P,Univ.Paris, Inst.Phys.Nucl.Annual Report 1988 (=A-IPNO ?)		34	1989	2FR ILL	2	Add ref.to 22151
1989SIZW	J.L.Sida	R,IPNO-DRE-	89	10	1989	2FR ILL	2	Add ref.to 22151
1988BAZX	C.O.Bacri	P,Univ.Paris, Inst.Phys.Nucl.Annual Report 1987 (=A-IPNO ?)		E3	1988	2FR ILL	2	Possibly related to, or superseded by, 22151
1988DIZZ	W.Ditz	P, Univ.Mainz, 1987 Ann.Rept.		18	1988	2GERMNZ	2	NewEntry, combine with 1990DIZY and 1989DIZY
1988SRZZ	A.Srivastava	P, Univ.Mainz, 1987 Ann.Rept.		17	1988	2GERMNZ	2	Add ref.to 22134
1987AR21	P.Armbruster	J,EUL	4	793	1987	2FR ILL	2	Probably related to 22151
1987BEZR	M.Bernas	IPNO-DRE	87	30	1987	2FR ILL	2	Almost same as 1987AR21, compare 22151
1987HA43	M.Haddad	J,RCA	42	165	1987	2FR GRE ?	2	Probably new entry
1987KA20	Y.Kawase	J,NIM/B	26	341	1987	2JPNKTO	2	New entry? (check whether listed FY are original exp.data)
1987KO17	P.Koczon	J,PL/B	191	249	1987	2FR ILL	2	New entry? (Very specific relative data)
1987SRZZ	A.Srivastava	P,Univ.Mainz, 1986 Ann.Rept.		16	1987	2FR ILL	2	NewEntry
1987ST03	Ch.Straede	J,NIM/A	462	85	1987	2ZZZGEL	2	NewEntry
1986AS01	M.Asghar	J,RE	93	69	1987	2FR ILL	2	Add ref.to 21919
1986CA14	F.Caitucoli	J,RE	92	333	1987	2FR ILL	2	NewEntry
1986DO08	T.P.Doan	J,RE	93	61	1986	2FR ILL	2	NewEntry
1986KO14	P.Koczon	J,RE	93	49	1986	2FR ILL	2	NewEntry
1986TR05	J.Trochon	J,RE	92	327	1986	2FR SAC	2	Add ref.to 22152
1984SOZX	Sohnius	P,Univ.Mainz, 1983 Ann.Rept.		94	1984	2GERMNZ		Add ref.to 21939
1982ALZW	E.Allaert	R,NEANDC(E)-	232	4	1982	2ZZZGEL	2	Add ref.to 21788
1982BE07	G.Benedetti	J,NSE	80	379	1982	2ITYMIP	2	Update of 21644. Add ref., data (del.neutron ylds), and first author
1982ERZT	H.N.Erten	R,INDC(SWT)-	16	20	1982	2SWTWUR	2	Add ref.to 21805
1982FU08	I.Fujiwara	J,JPJ	51	1713	1982	2JPNKTO	2	Add ref.to 20848

Area 2 references (cont.)

1980AS05	M.Asghar	J,NP/A	341	388	1980	2FR ILL	2	Add to 21545 or perhaps new entry
1979PEZL	P.Peuser	C,Conf.Nucl.Spectrosc.Fission Products, Grenoble=Inst.Phys. Conf.Ser.51, Chapter 5		288	1979	2GERMNZ	2	Add ref.to 21581
1978ZWZX	Zwicky	R,INDC(SWT)-	12	7	1978	2SWTWUR	2	Add ref.to 21706
1977BAWX	Barthelemy	R,NEANDC(E)-192	3	31	1977	2ZZZGEL	2	Short abstract, no data. Can be added to 21744
1977BRYU	Brissot	C,77TOKYO	1	748	1977	2FR GRE	2	Add ref.to 21549
1977DEYQ	Debertin	P,INDC(GER)-	19	82	1977	2GERPTB	2	Add ref.to 21624
1977DEZK	Denschlag	J,VDPG	6	971(E8.5)	1977	2FR ILL	2	Short abstract, no data, related to 20878
1977GAZS	Gaggeler	P,NEANDC(OR)-	150	11	1977	2SWTUBE	2	Add ref.to 21604
1977KAZR	Kaiser	P,NEANDC(OR)-	150	10(1)	1977	2SWTUBE	2	Add to 21218
1977KAZS	Kaiser	P,NEANDC(OR)-	150	10(2)	1977	2SWTUBE	2	Add to 21745
1977MUZZ	Muller	R,KFK-	2504	13	1977	2GERKFK	2	Probably related to 21834
1977NIZU	Nishi	C,77TOKYO	1	755	1977	2JAPKTO	2	Add ref.to 20848 (no additional data for Exfor)
1977SCYM	Schussler	C,77TOKYO	1	749	1977	2FR GRE	2	Add ref.to 20848
1977WEZP	Weis	J,VDPG	6	973(E8.9)	1977	2GERMNZ	2	Add ref.to 21008 (short abstract, no data)
1976TR06	J.Trochon	J,ASL	26	25	1976	2FR BRC	2	Add ref.to 21001
1976YA13	H.Yamamoto	J,NST	13	678	1976	2JPNKYU	2	Add ref.to 21909
1974KRZG	J.-V.Kratz	C,73ROCH	2	95	1974	2GERMNZ	2	New entry; alternatively (after detailed checking) add data and ref.to 20521
1974NIZX	T.Nishi	P,INDC(JPN)-	23	50	1974	2JPNKTO	2	Prelim.results of 20589, add ref.
1974RAYM	M.Rajagopalan	J,HPA	47	482(2)	1974	2SWTWUR	2	Short abstract, no data. Ref.may be added to 21554
1974RAZE	M.Rajogopalan	P,INDC(SWT)-	6	15	1974	2SWTWUR	2	Add ref.to 21554 and 21595
1973AN32	J.N.Anoussis	J,RCA	20	118	1973	2GRCATH	2	New Entry (Del.neutron data for Pa-231)
1973CHZI	C. Chauvin	R,FRNC-TH-	470		1973	2FR GRE	2	NewEntry
1973GAYM	von H.Gäggeler	J,HPA	46	445	1973	2SWTVIL	2	Add ref.to 21552
1973GAZA	von H.Gäggeler	P,EANDC(OR)-	133	15	1973	2SWTVIL	2	Add ref.to 21552
1973GAZB	von H.Gäggeler	P,INDC(SEC)-	36	63	1973	2SWTVIL	2	Add ref.to 21552
1973VAYM	P.Van Assche	P,INDC(SEC)-	36	31	1973	2BLGMOL	2	Add ref.to 21560 (short abstract, no data)
1972BE40	G.Benedict	J,RCA	17	61	1972	2GERMNZ	2	NewEntry
1972CA39	M.Cambiaghi	J,NC/A	11	716	1972	2ITYPAV	2	NewEntry
1972NA10	R.Naeumann	J,JIN	34	1785	1972	2GERMNZ	2	NewEntry
1972SC48	H.-D.Schussler	J,RCA	18	123	1972	2GERMNZ	2	NewEntry
1971BI25	O.Birgul	J,RCA	16	103	1971	2UK KEN	2	NewEntry
1971BLZJ	J.Blachot	C,71CANT		13	1971	2FR ILL	2	Add ref.(probably prelim.data) to 21561 and 21590, add data for U-233
1971BR26	M.G.Brown	J,RCA	15	109	1971	2UK KEN	2	New entry (del.neutron ylds)

Area 2 references (cont.)

1971CRZO	E.A.C. Crouch	C,71CANT		147	1971	2UK HAR	2	NewEntry
1971KE12	J.Kemmer	J,RCA	15	275	1971	2GERMUN	2	NewEntry
1970AS04	M.Asghar	J,NP/A	145	657	1970	2FR BOR	2	NewEntry (ternary fiss.)
1970KE23	J.Kemmer	J,RCA	13	181	1970	2GERMUN	2	NewEntry
1970KO03	E.Konecny	J,ZP/A	231	59	1970	2GERMUN	2	NewEntry
1970LY03	S.J.Lyle	J,RCA	13	167	1970	2UK KEN	2	New entry or update of 22062
1970PF01	E.Pfeiffer	J,ZP/A	240	403	1970	2GERGER	2	NewEntry
1969BI08	O.Birgul	J,RCA	12	66	1969	2UK KEN	2	New entry
1969DE13	H.O.Denschlag	J,JIN	31	1873	1969	2GERMNZ	2	NewEntry
1968SH24	F.Shiraishi	J,NIM	66	130	1968	2JPNYOK	2	NewEntry
1967VO08	H.R.von Gunten	J,RCA	8	112	1967	2SWTWUR	2	NewEntry
1967WU01	F.Wunderlich	J,RCA	7	105	1967	2GERMUN	2	NewEntry
1963HA61	E.Hagebo	J,JIN	25	615	1963	2SWDUPP	2	NewEntry

No action for EXFOR

2017ME10	E.Mendoza	J,NIM/A	870	60	2017	2SPNPCM	2	Deposited energy spectra of bulk FP, rather not for Exfor
2014SE17	O.Serot	J,NDS	119	320	2014	2FR ILL	2	Summary article on LOHENGRIN FY results
2008TS03	I.Tsekhanovich	J,PR/C	78	11301	2008	2FR ILL	2	Rb-94 produced by fission and level scheme studied. Found no data fo Exfor
2007GO03	F.Gonnenwein	J,IMP/E	16	410	2007	2FR ILL	2	Cannot find data for Exfor
2004CO01	N.Colonna	J,NIM/B	213	49	2004	2ITYBAU	2	Summary of nTOF project. The Fe(n,g) data shown as demo should be obtained from other sources for compilation. Anyway no fission data suitable for compilation.
2003PFZZ	B.Pfeiffer	P, Univ.Mainz, 2002 Ann.Rept.		A14	2003	2GERMNZ	2	Prod.yield of neutron-rich FP beams, rather not for EXFOR
2003NE19	N.Nenoff	J,AHP/N	18	331	2003	2GERKFK	2	Cannot find data for Exfor
2002OBZY	S. Oberstedt	P,IRMM Neutron Physics Unit 2001 Scientific Report		72	2002	2FR ILL	2	This is Corrigendum of a preliminary version, 22899 has final data anyway, rather no need to add this ref.
1998CL09	F.Clapier	J,Phys.Rev. Special Topics - Accelerators and Beams	1	13501	1998	2FR PAR	2	Prod.of neutron-rich FF beams, no data for EXFOR
1997ME04	G.Medkour	J,JP/G	23	103	1997	3ALGALG	3	Analysis of experiments reported elsewhere
1997TA09	T.Takeda	J,ANE	24	705	1997	2JAPOSA	2	Theoretical transmutation study. No relation to Exfor.
1992SH30	T.Sharshar	J,NIM/B	70	259	1992	2JPNKTO	2	Nothing for Exfor
1989YA08	N.-Q.Ya	J,RCA	47	1	1989	2SWTPSI	2	Probably not relevant (to be confirmed)
1986LE20	C.Leroy	J,NIM/A	252	4	1986	2ZZZCER	2	No data for Exfor
1985WA26	C.Wagemans	J,NIM/A	236	429	1985	2ZZZGEL	2	No original data
1973KH05	T.A.Khan	J,NP/A	205	488	1973	2GERKFK	2	FP gammas, rather NSDD, probably not for Exfor
1973SC10	W.J.Schindler	J,NP/A	206	374	1973	2AUSATI	2	FP gammas, rather NSDD, probably not for Exfor
1967OI01	N.Oi	J,NST	4	372	1967	2JPNJPN	2	Time-dependent fiss.prod.gamma spectra, not for Exfor

Area 3 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2017NA17	H.Naik	J,ARI		127	92	2017	3INDTRM	3	NewEntry
2001BAZN	J.Bao	P,INDC(CPR)-		56	8	2001	3CPRAEP	3	NewEntry
2001FEZZ	J.Feng	P,INDC(CPR)-		53	4	2001	3CPRAEP	3	NewEntry
2001LIZW	Y.Liu	P,INDC(CPR)-		56	2	2001	3CPRAEP	3	NewEntry
2001YAZX	Y.Yang	P,INDC(CPR)-		53	10	2001	3CPRAEP	3	NewEntry
1998PHZZ	W.R.Phillips	C,98GATLIN			105	1998	3AULCBR	3	31571, Add ref.to 31571
1995CH60	A.Chouak	J,ARI		46	423	1995	3MORMOH	3	NewEntry
1987CHZN	Chien Chung	C,87ROSSEA			H3	1987	3CHFTHU	3	Abstract with no data, could be added to 30791 and 32666
1987LE27	C.H.Lee	J,JRN		119	101	1987	3CHFTHU	3	NewEntry
1986EMZZ	K.Embarch	C,86HARROG			129	1986	3MORMOH	3	NewEntry
1986HA18	A.A.Hasan	J,RE		93	193	1986	3CHFTHU	3	Add ref.to 30791
1986RAZQ	S.Ram	J,BAP		31	8 1305(P2.58)	1986	3INDBHU	3	Abstract with no data, could be added to 30768
1984JA20	H.C.Jain	J,RCA		37	63	1984	3INDTRM	3	Add ref.to 33003
1984MO26	M.Montoya	J,ZP/A		319	219	1984	3PERISE	3	New entry
1982SI08	A.K.Sinha	J,JP/G		8	L85	1982	3INDITK	3	NewEntry (marginally relevant for EXFOR)
1978DAYZ	T.Datta	P,BARC-		990	11	1978	3INDTRM	3	Short abstract, no data, may be added to 30516 and/or 33069
1978KRZT	B.Krishnarajulu	P,BARC-		990	75	1978	3INDTRM	3	Abstract with no data, could be added to 30498
1978KRZY	B.Krishnarajulu	P,BARC-		978	56(2)	1978	3INDTRM	3	Add ref.to 30497 (abstract only)
1977FEZP	H.Feldstein	P,INDC(SEC)-		61	183	1977	3ISLSOR	3	New entry
1977IZZX	T.Izak-Biran	P,NEANDC(OR)-		150	182	1977	3ISLSOR	3	Abstract with no data, could be added to 30425
1977MAYP	M.K.Mehta	C,77TOKYO		1	750	1977	3INDTRM	3	Add ref.to 30440
1975MAXI	S.B.Manohar	C,75CALCUTTA			138	1975	3INDTRM	3	Add ref.to 30511
1975RAYJ	A.Ramaswami	C,75CALCUTTA			141	1975	3INDTRM	3	Add ref.to 30437
1973DOZH	A.M. dos Santos	P,INDC(SEC)-		35	53	1973	3BZLIEN	3	NewEntry (Abstract with 1 data point)
1971BOZO	J.W.Boldeman	R,AAEC/TM-		581		1971	3AULAUUA	3	Add ref.to 30909
1970NAZR	D.M.Nadkarni	C,70MADURAI		2	73	1970	3INDTRM	3	Update of 30093 (add ref.and data points to sub.6, update REACTION)

No action for EXFOR

1987ZH09	J.H.Zhang	J,JRN		117	121	1987	3CPRNRS	3	Not for EXFOR
1984NA20	S.Nagy	J,NSE		88	154	1984	3HUNKOS	3	Review/evaluation. No new exp.data. Not for EXFOR
1981BEZA	A.V.Bellido	P,INDC(BZL)-		5	10	1981	3BZLIEN	3	Abstract of work in progress, no data
1977RAYS	Rao	C,77PUNE			253	1977	3INDPRA	3	Abstract, no data
1976OTZW	D.Otero	P,CNEA-NT-		3/76	53	1976	3ARGARG	3	FP half-lives measured, no yields. Not for EXFOR
1974AMZW	S.Amiel	C,73ROCH		2	65	1974	3ISLSOR	3	Review, no new data
1970KA29	S.K.Kataria	J,NP/A		154	458	1970	3INDTRM	3	X-ray yields, not for EXFOR

Area 4 references

NSR Key#	First Author	Publication	Vol	Issue	Page	Year	Lab	Area	Action
2013KH11	V.A.Khryachkov	J,PAN		76	259	2013	4RUS FEI	4	NewEntry
2011AD18	J.Adam	J,EPJ/A		47	85	2011	4ZZZDUB	4	No data for Exfor, not sure whether it should be added to 41529
2010PY02	Yu.V.Pyatkov	J,EPJ/A		45	29	2010	4ZZZDUB	4	Add to 41554
2008FOZY	E.F.Fomushkin	C,2007NICE			119	2008	4RUSEPA	4	Work mainly on decay data; some cs data in last paragraph
2002BO57	S.B.Borzakov	J,PNE		41	125	2002	4ZZZDUB	4	New entry (7-group del.neutron scheme introduced)
2002CHZT	D.Chultem	R,JINR-P1-2002-16				2002	4ZZZDUB	4	New entry? (In Russian)
2001BOZZ	S.B.Borzakov	R,INDC(CCP)-	426		7	2001	4ZZZDUB	4	Similar to 2002BO57, combine with it in new entry
1998BOZW	S.B.Borzakov	R,JINR-E3-98-145				1998	4ZZZDUB	4	Add ref.to 41366
1997BOZL	S.B.Borzakov	C,5th Int.Sem.on Int.of Neutrons with Nuclei, Dubna, 1997			343	1997	4ZZZDUB	4	Add ref.to 41366
1997GO26	A.A.Goverdovsky	J,PAN	60		1787	1997	4RUSFEI	4	NewEntry
1997GOZO	A.A.Goverdovsky	C,5th Int.Sem.on Int.of Neutrons with Nuclei, Dubna, 1997			310	1997	4RUSFEI	4	Add ref.to 41334
1996BO24	S.B.Borzakov	J,PAN		59	1125	1996	4ZZZDUB	4	Add to 41358
1995GO35	A.A.Goverdovsky	J,PAN		58	1460	1995	4RUSFEI	4	Add ref.and data to 41547
1994GU16	N.A.Gundorin	J,PAN		57	1148	1994	4ZZZDUB	4	Add ref.to 41198 (Summary of method and data published elsewhere)
1994PO25	V.Polhorsky	J,PAN		57	1132	1994	4ZZZDUB	4	Update 41179
1993GO05	A.A.Goverdovsky	J,PAN		56	24	1993	4RUSFEI	4	Update 41060
1993GO24	A.A.Goverdovsky	J,PAN		56	1642	1993	4RUSFEI	4	Add to 41547
1989GU15	A.N.Gudkov	J,YF		49	1551	1989	4RUSMIF	4	Probably new entry (in Russian)
1988BE53	A.D.Belyaev	J,SNP		48	204	1988	4UZ UZB	4	Update 41047
1988DA14	M.M.Danilov	J,YF		47	1533	1988	4RUSITE	4	New entry? (In Russian)
1988GU17	N.A.Gundorin	J,SJA		64	493	1988	4ZZZDUB	4	See 1987GUZX
1987BOZC	A.A.Bogdzal	R,JINR-P3-87-862				1987	4ZZZDUB	4	New entry? FP gammas, in Russian
1987DA32	M.M.Danilov	J,YF	46		1372	1987	4RUSITE	4	New entry? (In Russian)
1987GUZX	N.A.Gundorin	R,JINR-P3-87-718				1987	4ZZZDUB	4	In Russian. Not sure whether there are data for Exfor
1984BAYU	I.I.Bakhromi	C,83KIEV		2	254	1984	4UZ UZB	4	New entry? (In Russian)
1984BE59	A.D.Belyaev	J,YF	40		1131	1984	4UZ UZB	4	New entry? (In Russian)
1984GUZV	N.A.Gundorin	C,83KIEV		2	37	1984	4ZZZDUB	4	In Russian, probably related to 1987GUZX
1982BA64	I.I.Bakhromi	J,YF	36		1360	1982	4UZ UZB	4	New entry? (In Russian)
1982GO17	A.G.Golovanov	J,SJA		53	576	1982	4RUSMIF	4	NewEntry
1981GO07	B.M.Gokhberg	J,YF		33	313	1981	4RUSKUR	4	In Russian, possibly related to later work 40965
1981GU13	A.N.Gudkov	J,SJA		50	331	1981	4RUSMIF	4	NewEntry
1980DL01	Z.Dlouhy	J,CZJ/B		30	1101	1980	4ZZZDUB	4	Not sure whether for EXFOR
1980GU23	A.N.Gudkov	J,SJA		48	418	1980	4RUSMIF	4	NewEntry
1980GUZN	A.N.Gudkov	C,80KIEV		3	153	1980	4RUSMIF	4	In Russian; obviously to be combined with 1981GU13
1980PE14	A.K.Petukhov	J,JEL		32	300	1980	4RUSLIN	4	New entry? (In Russian)
1980TEZX	V.F.Teplykh	C,80KIEV		3	171	1980	4RUSLIN	4	Add ref.to 40545
1980VOZR	A.A.Vorobev	C,80KIEV		3	182	1980	4RUSLIN	4	In Russian, update 40503?
1979BA53	B.G.Basova	J,SJA		46	282	1979	4RUSNIR	4	Add ref.to 40479
1979ZA02	Y.S.Zamyatnin	J,YF		29	595	1979	4RUSNIR	4	In Russian, update 40479?
1976DLZZ	Z. Dlouhy	R,JINR-P3-9613				1976	4ZZZDUB	4	In Russian, compare 1980DL01
1975BAZT	Yu.F.Balakshev	R,INDC(CCP)-	49		8	1976	4RUSFEI	4	Add to 40298

Area 4 references (cont.)

1975PO15	L.A.Popeko	J,YF	22	468	1975	4RUSLIN	4	In Russian. On fission X-rays, probably not for Exfor
1972VO06	A.A.Vorobyov	J,PL/B	40	102	1972	4RUSLIN	4	NewEntry
1971MA21	B.P.Maksyutenko	J,SNP	13	163	1971	4RUSFEI	4	NewEntry
1971ZAZU	V.Zakharova	R,IAE-	2069		1971	4RUSRUS ?	4	Add ref.to 40200
1970AR20	Y.M.Artemev	J,SNP	11	162	1970	4KASKAZ ?	4	NewEntry
1969AR12	Y.M.Artemev	J,SNP	9	12	1969	4KASKAZ ?	4	NewEntry (with 1970AR20)
1969BA56	I.A.Baranov	J,SNP	10	1149	1969	4RUSFTI ?	4	NewEntry(with 1970AR20)
1967DY03	P.P.Dyachenko	J,SNP	6	848	1968	4RUSFEI	4	New entry or add data to 40017

No action for EXFOR

2015AS02	N.L.Asquith	J,NIM/B	344	51	2015	4ZZZDUB	4	Nothing for EXFOR
2011BA19	A.E.Barzakh	J,EPJ/A	47	70	2011	4RUSLIN	4	Nothing for EXFOR
2008VA04	V.A.Varlachev	J,BAS	72	319	2008	4RUSTPI	4	Rather not for EXFOR
2004KRZX	M.I.Krivopustov	R,JINR-E1-2004-79			2004	4ZZZDUB	4	Transmutation study, no data for EXFOR
2001ADZW	J.Adam	R,JINR-E1-2001-136			2001	4ZZZDUB	4	Transmutation study, no data for EXFOR
2001WA11	J.-S.Wan	J,JRN	247	151	2001	4ZZZDUB	4	Transmutation study, no data for EXFOR
2000WAZZ	J.-S.Wan	R,JINR-E1-2000-169			2000	4ZZZDUB	4	Transmutation study, no data for EXFOR
1998NIZX	V.A.Nikolaev	J,KSO	4(90)-98	25	1998	4ZZZDUB	4	Rather not for EXFOR
1994LE30	V.A.Letarov	J,PAN	57	1126	1994	4RUSKUR	4	Probably no data for EXFOR