Status of EXFOR Compilation in CNDC the 1st Asian Nuclear Reaction Database Development Workshop (Hokkaido University/Sapporo)

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China Nuclear Data Center China Institute of Atomic Energy (CIAE)

October 27, 2010



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- 2 Responsibility Journals
- 3 Compilation tools
- 4 X4 compilation status



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• 1977 Neutron center network and charged-particle network were merged as NRDC (Nuclear Reaction Data Center) network



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Core Center

Country	Center	Joined
U.S.A	US National Nuclear Data Center	1966
France	OECD NEA Data Bank	1966
Austria	IAEA Nuclear Data Section	1966
Russia	Russian Nuclear Data Center	1966



- 1977 Neutron center network and charged-particle network were merged as NRDC(Nuclear Reaction Data Center) network
- 1984 China joined into IAEA
- 1987 CNDC joined into NRDC



- 1977 Neutron center network and charged-particle network were merged as NRDC(Nuclear Reaction Data Center) network
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- 1987 CNDC joined into NRDC Specialized Center

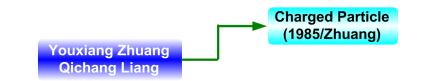
Country	Center	Joined
Russia	Nucl. Struc. & Nucl. Reac. Data Centre	1974
Japan	Japan Nuclear Reaction Data Center	1975
Russia	Centre for Exp. Photonuclear Data	1982
China	China Nuclear Data Center	1987
Japan	Nuclear Data Center	1991
Korea	Nuclear Data Evaluation Laboratory	2000
India	Nuclear Data Section	2008



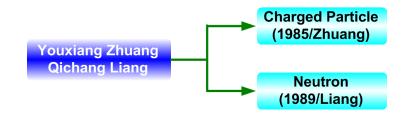


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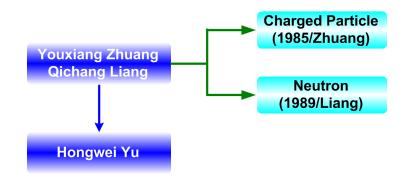




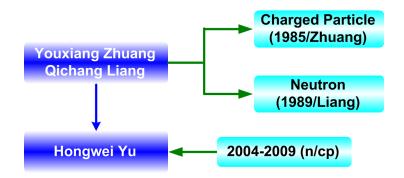


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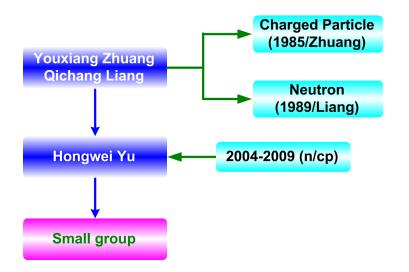






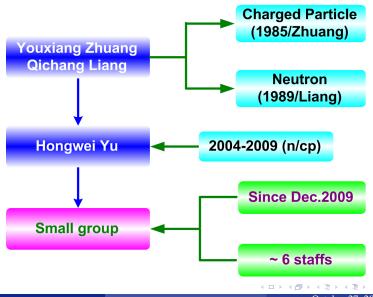
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Guochang CHEN (CNDC)

Status of EXFOR Compilation in CNDC

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Huangshan Mountains Meeting (May 1985)

- IAE-CP held a working meeting about compilation in EXFOR
- 15 charged particle X4 entries were transmitted to IAEA
- Neutron X4 started at Jan. 1989





Huangshan Mountains Meeting (May 1985)

- IAE-CP held a working meeting about compilation in EXFOR
- 15 charged particle X4 entries were transmitted to IAEA
- Neutron X4 started at Jan. 1989

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Responsibility Journals



Responsibility of CNDC

- Compilation of numerical data and related information (X4 & CINDA) for nuclear reaction measurements performed in China
- Measurements are published in Chinese journal
- Compilation of bibliographic references (CINDA) to microscopic neutron reaction data and related data published in Chinese

Original main journals



- High Energy Physics and Nuclear Physics (CHN/1977;ENG/2007)
- Atomic Energy Science and Technology (CHN/1959)
- Journal of Nuclear and Radiochemistry (CHN/1979)
- Nuclear Physics Review (CHN/1984)
- Nuclear Techniques (CHN/1978)
- Chinese journal of Nuclear Physics (ENG/79-98)
- Communication of Nuclear Data Progress (ENG/1989)

Present main journals



- Chinese Physics C(ENG/2007;HEN)
- Atom. Energy Sci. & Tech.(CHN/1959)
- J. of Nucl. & Radiochemistry(CHN/1979)
- Nuclear Physics Review(CHN/1984)
- Nuclear Techniques(CHN/1978;+ENG/1989)
- Com. of Nucl. Data Prog.(ENG/1989)
- Nuclear Science and Techniques(ENG/1989)
- Chinese Physics Letters(ENG/1984)
- Chinese Physics B (ENG)
- Acta Physica Sinica(ENG/1933)
- Conference, Workshop etc.





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5 Summary

Chinese tools

- ERES(1993): A PC code for X4 compilation
 - A PC software package assisting the X4 compilation
 - Developed by CNDC, Nankai Univ. & NDS
 - Editor: Includes input, output, merge and editor
 - Check: Checks X4 file & generates error messages file
 - Retrieve: by ENTRY, SUBENT or REACTION



INTERNATIONAL ATOMIC ENERGY AGENCY

NUCLEAR DATA SERVICES

DOCUMENTATION SERIES OF THE IAEA NUCLEAR DATA SECTION

IAEA-NDS-151 February 1994

ERES

A PC PROGRAM FOR NUCLEAR DATA COMPILATION IN EXFOR FORMAT

by Li Shubing NanKai University, Tianjin, P.R. China

Liang Qichang, Liu Tingin Chinese Nuclear Data Center, Institute of Atomic Energy Beijing, P.R. China

Abstract: This document describes the use of the personal computer software package ERES for compilation of experimental nuclear reaction data in the internationally agreed EXFOR format. The software is available upon request from the IAEA Nuclear Data Section.

Nuclear Data Section International Atomic Energy Agency P.O. Box 100 Austria Austria NDIS caline.

e-mail: RNDS@(AEA1, BITNET) 5x: (31-1) 24564 cable: INATOM VIENNA televic: 1-12645 acon a telephone: (31-1) 2260-1709 NDIS online, TELNET: IAEAND, IAEA.OR.AT warrame: IAEANDS

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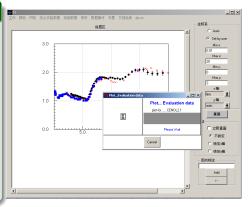


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Chinese tools

- ERES(1993): A PC code for X4 compilation
- TT: Ploting software for X4 & ENDF
- GDgraph: Digitizing of exp. data



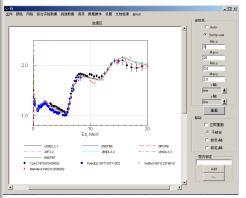
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Chinese tools

- ERES(1993): A PC code for X4 compilation
- TT: Ploting software for X4 & ENDF
 - A GUI platform for ploting
 - Based on MySQL database
- GDgraph: Digitizing of exp. data

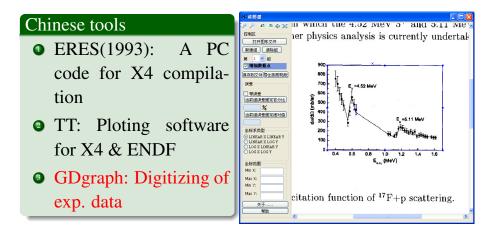


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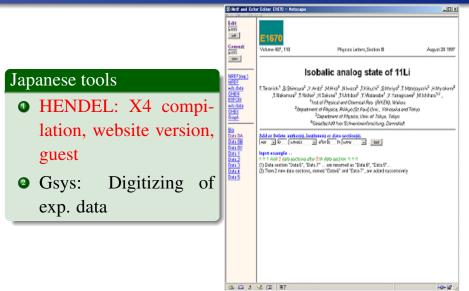
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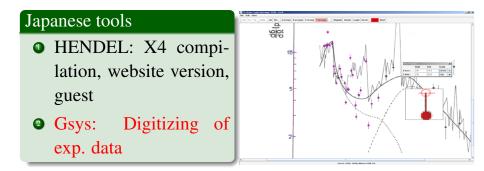
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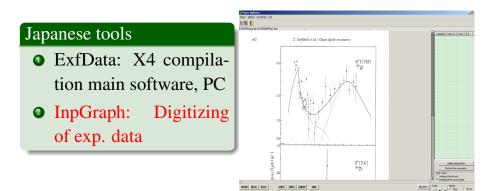


IAEA/NDS tools

- ExfData: X4 compilation main software, PC
- InpGraph: Digitizing of exp. data

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X4 compilation status



X4 compilation group (\sim 6)

- Small Group: \sim 6 staffs
- Participants: Ge, Zhuang, Wang, Tao, Wu, Shu, Chen
- Secretary of group: Guochang Chen
- Time consuming: $100\%(\times)$, $50\%(\times)$, $\approx 30\%(?)$

X4 compilation status



Task assign

- Respond to scan $1 \sim 2$ journals
- Collect the scan results of all responsible journals · · ·
- Assign neutron & charged particle tasks
- Word \rightarrow Elec. Table \rightarrow Website(test)

Website main page and composing







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	No.	Ref.	Title	Vol.	Issue	Page	Lab	Publish date	Author	Status	Action	Delay date(n)	Compiler	Entry	Sub.
<u>详懂</u>	1	S, JAEA-C-	Preliminary Heasurement of Neutron Emission Spectra for Beryllium at 21.65 HeV	JAEA- Conf- 2009- 004	2009- 004	169	3CPRAEP	200910	Changlin LAN	Allocated	Compiled	10	Guochang CHEN	<u>32682</u>	n
洋楂	2	S, ISINN-	Cross section measurements for the 143Md(n, α)140Ce reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
<u>详情</u>	з	S, ISINN-	Cross section measurements for the 143Md(n, α)140Ce reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
<u>详情</u>	4	j, rca	Cross section measurements of $(n, 2n)$, (n, p) and (n, a) reactions on gadolinium isotopes in the neutron energy range of 13.5 to 14.8 MeV \underline{X} MAX	98	3	127	3CPRNPC	201003	Junhua Luo	Allocated	Compiled	6	Guochang CHEN	32680	n
洋植	5	J, PR/C	Cross-section measurement and analysis for the 149 Sn (n,α) 146 Hd reaction at 6.0 MeV	82	1	14601	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Jimin WANG	<u>32679</u>	n
<u>详惜</u>	6	J, NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	W. P. Liu	Allocated		7	Xi TAO	\$0070	ср
洋楂	7	J, NP/A	Competition between fusion-fission and quasi fission processes in 32S+184W reaction	834	1-4	201 e	3CPRAEP	201003	C. L. Zhang	Allocated		7		\$0069	ср
送债	8	J, NP/A	Elastic resonance scattering of 138+p and 17F+p	834	1-4	100 c	3CPRAEP	201003	Y.B. Wang	Allocated		7	Xi TAD	S0068	cp
<u>详惜</u>	9	J, NIM/B	Development of laboratory standards for AMS measurement of $\underline{237 Np}$	268	11-12	1949	3CPRAEP	201006	Xianggao ¥ang	Allocated	Compiled	3	Youxiang ZHUANG	<u>32683</u>	n
送情	10	J, NIM/B	Measurements of the 89Y(n, y)90eY cross=section in the neutron energy range of $13.5 - 14.6$ MeV	268	9	1367	3CPRLNZ	201005	Fengqun Zhou	Allocated	Compiled	4	Youxiang ZHUANG	32678	n

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	No. Ref.	Title	Vol.	Issue	Page	Lab	Publish date	Author	Status	Action	Delay date(n)	Compiler	Entry	Jub.
洋植	1 S, JAEA-C-	Preliminary Meanurement of Neutron Emission Spectra for Beryllium at 21.65 MeV	JAEA- Conf- 2009- 004		169	3CPRAEP	200910	Changlin LAN	Allocated	Compiled	10	Guochang CHEN	32682	n
<u>详惜</u>	2 S, ISINN-	Cross section measurements for the $143Nd(n,\alpha)140Ce$ reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. W. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	r
洋債	3 S, ISINN-	Cross section measurements for the 143Nd (n, α) 140Ce reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
<u>详懂</u>	4 J, RCA	Cross section measurements of (n, 2n), (n, p) and (n, α) reactions on gadelinium isotopes in the neutron energy range of 13.5 to 14.8 MeV $\Sigma B/2$	98	3	127	3CPRNPC	201003	Junhua Luo	Allocated	Compiled	6	Guochang CHEN	32680	n
洋楂	5 J, PR/C	Cross-section measurement and analysis for the 149 $Sm\left(n,\alpha\right)$ 146 Md reaction at 6.0 MeV	82	1	14601	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Jinin WANG	<u>32679</u>	n
洋造	6 J. NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	Y. P. Liu	Allocated		7	Xi TAD	S0070	τp
<u>详惜</u>	7 J, NP/A	Competition between fusion-fission and gussi fission processes in 325+184W reaction	834	1-4	201 c	3CPRAEP	201003	C. L. Zhang	Allocated		7		\$3069	εp
洋植	8 J, MP/A	Elastic resonance scattering of 138+p and 17F+p	834	1-4	100 c	3CPRAEP	201003	Y.B. Yang	Allocated		7	Xi TAD	S0068	ър
<u>详惜</u>	9 J, NIM/B	Development of laboratory standards for AMS measurement of 237Mp	268	11-12	1949	3CPRAEP	201006	Xianggao Wang	Allocated	Compiled	3	Youxiang ZHUANG	<u>32683</u>	n
<u>详情</u>	10 J, NIM/B	Measurements of the 89Y(m, y)9OmY cross-section in the neutron energy range of 13.5-14.6 MeV	268	9	1367	3CPRLNZ	201005	Fengqun Zhou	Allocated	Compiled	4	Youxiang ZHUANG	32678	

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洋植	1	S, JAEA-C-	Freliminary Meanurement of Neutron Emission Spectra for Beryllium at 21.65 MeY	JAEA- Conf- 2009- 004		169	3CPRAEP	200910	Changlin LAN	Allocated	Compiled	10	Guochang CHEN	<u>32682</u>	n
<u>详惜</u>	2	S, ISINN-	Cross section measurements for the $143Nd(n, \alpha)140Ce$ reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
洋植	3	S, ISINN-	Cross section measurements for the 143Nd $(n,\alpha)140Ce$ reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
<u>详惜</u>	4	J, BCA	$\label{eq:cross-section measurements of (n, 2n), (n, p) and (n, \alpha)} \\ reactions on gadolinium isotopes in the neutron energy \\ range of 13.5 to 14.8 MeV \underline{XBV}2$	98	3	127	3CPRMPC	201003	Junhua Luo	Allocated	Compiled	6	Guochang CHEN	32680	n
<u>详情</u>	5	J, PR/C	$\frac{\text{Cross-section measurement and analysis for the 149 Sm}(n,\alpha)}{146~\text{Md reaction at 6.0 MeV}}$	82	1	14601	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Jinin WANG	<u>32679</u>	n
洋楂	6	J, NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	¥.P.Liu	Allocated		7	Ki TAD	S0070	cp
洋醬	7	J, NP/A	Competition between fusion-fission and quasi fission processes in 325+184% reaction	834	1-4	201 c	3CPRAEP	201003	C. L. Zhang	Allocated		7		\$0069	ср
<u>详情</u>	8	J, NP/A	Elastic resonance scattering of 138+p and 17F+p	834	1-4	100 c	3CPRAEP	201003	Y.B. Wang	Allocated		7	Ki TAD	S0068	cp
<u>详惜</u>	9	J, NIM/B	Development of laboratory standards for ANS measurement of $\frac{237 \mathrm{Mp}}{23}$	268	11-12	1949	3CPRAEP	201006	Xianggao Wang	Allocated	Compiled	3	Youxiang ZHUANG	<u>32683</u>	n
<u>详情</u>	10	J, NIM/B	Measurements of the 89Y(m,y)90mY cross=section in the neutron energy range of $13.5\pm14.8~\text{MeV}$	268	9	1367	3CPRLMZ	201005	Fengqun Zhou	Allocated	Compiled	4	Youxiang ZHUANG	<u>32678</u>	n

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<u>详情</u>	1	S, JAEA-C-	Preliminary Hearwrement of Neutron Emission Spectra for Beryllium at 21.65 MeV	JAEA- Conf- 2009- 004	2009- 004	169	3CPRAEP	200910	Changlin LAN	Allocated	Compiled	10	Guochang CHEN	32682	n
<u>详惜</u>	2	S, ISINN-	Cross section measurements for the $143 \text{Md}\left(n,\alpha\right) 140 \text{Ce}$ reaction at $4,0,-5,0$ and $6,0$ MeV	17	1	323	3CPRBJG	201007	Yu.M.Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
洋楂	3	S, ISINN-	Cross section measurements for the 143Nd(n, α)140Ce reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. ₩. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
<u>详情</u>	4	J, RCA	Cross section measurements of $(n, 2n)$, (n, p) and (n, α) reactions on gadolinium isotopes in the neutron energy range of 13.5 to 14.8 MeV XBV2	98	3	127	3CPRNPC	201003	Junhua Luo	Allocated	Compiled	6	Guochang CHEN	32680	n
洋楂	5	J, PR/C	$\frac{Cross-section\ neasurement\ and\ analysis\ for\ the\ 149\ Sn(n,\alpha)}{146\ Md\ reaction\ at\ 6.0\ MeV}$	82	1	14601	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Jimin WANG	<u>32679</u>	n
洋楂	6	J, NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	W. P. Liu	Allocated		7	Xi TAO	S0070	cp
<u>详惜</u>	7	J, NP/A	Competition between fusion-fission and guasi fission processes in 325+184W reaction	834	1-4	201 c	3CPRAEP	201003	C. L. Zhang	Allocated		7		\$0069	сp
洋植	8	J, NP/A	Elastic resonance scattering of 138+p and 17F+p	834	1-4	100 e	3CPRAEP	201003	Y.B. Wang	Allocated		7	Xi TAD	S0068	cp
详惜	9	J, NIM/B	Development of laboratory standards for AMS measurement of $\underline{237 \mathrm{Mp}}$	268	11-12	1949	3CPRAEP	201006	Xianggao Yang	Allocated	Compiled	3	Youxiang ZHUANG	<u>32683</u>	n
<u>详情</u>	10	J, NIM/B	Measurements of the 89Y(n, y)90mY cross-section in the neutron energy range of $13.5\pm14.6~\text{MeV}$	268	9	1367	3CPRLNZ	201005	Fengqun Zhou	Allocated	Compiled	4	Youxiang ZHUANG	<u>32678</u>	n







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修改 洋賃	1	S, JAEA-C-	Preliminary Measurement of Neutron Emission Spectra for Beryllium at 21.85 MeV	JAEA- Conf- 2009- 004		169	3CPRAEP	200910	Changlin LAN	Allocated	Compiled	10	Guochang CHEN	32682	n
<u>修改</u> 洋楂	2	S, ISINN-	Cross section measurements for the 143Nd(m, α)140Ce reaction at 4.0, 5.0 and 6.0 MeV	17	1	323	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Guochang CHEN	<u>32681</u>	n
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修改 洋楂	5	J, PR/C	$\frac{Cross-section\ measurement\ and\ analysis\ for\ the\ 149\ Sn(n,n)}{146\ Md\ reaction\ at\ 6.0\ MeV}$	82	1	14601	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Jimin WANG	<u>32679</u>	n
修改 洋債	6	J, NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	W. P. Liu	Allocated		т	Xi TAO	S0070	сp
<u>修改</u> 洋楂	7	J, NP/A	Competition between fusion-fission and quasi fission processes in 325+184W reaction	834	1-4	201 c	3CPRAEP	201003	C. L. Zhang	Allocated		7		S0069	сp
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修改 洋管	9	J, NIM/B	Development of laboratory standards for AMS measurement of $\underline{237 \mathrm{Mp}}$	268	11-12	1949	3CPRAEP	201006	Xianggao Wang	Allocated	Compiled	3	Youxiang ZHUANG	32683	n
修改 洋醬	10	J, NIM/B	Measurements of the 89Y(n,y)90nY cross=section in the neutron energy range of $13.5 = 14.6$ MeV	268	9	1367	3CPRLNZ	201005	Fengqun Zhou	Allocated	Compiled	4	Youxi ang ZHUANG	<u>32678</u>	n

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ref	JAEA Conference proceedings	
title	Preliminary Measurement of Neutron Emission Spectra for Beryllium at 21.65 MeV	*
volume	JAEA-Conf-2009-004]
issue	2009-004]
page	169]
lab	3CPRAEP]
labnum	3CPRAEP China Inst.of Atomic Energy, Beijing	
publishdate	200910]
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修改 洋情	7	J, HP/A	Competition between fusion-fission and quasi fission processes in 325+184¥ reaction	834	1-4	201 e	3CPRAEP	201003	C. L. Zhang	Allocated		7		S0069	ср
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<u>修改</u> 删除 1	J, CPL	Chinese Physics Letters (中国物理快报)
<u>修改</u> 删除 2	J,HEN	Chinese Physics C(中国物理 C/高能物理与核物理)
<u>修改</u> 删除 3	J, CNPR	Nuclear Physics Review(原子核物理评价)
<u>修改</u> 删除 4	J, CST	Atomic Energy Science and Technology (原子能科学技术)
<u>修改</u> 删除 5	J,ARI	Applied Radiation and Isotopes
<u>修改</u> 删除 6	J,EPJ/A	European Physical Journal A: Hadrons and Nuclei
<u>修改</u> 删除 7	J, IPC	Radiation Physics and Chemistry
<u>修改</u> 删除 8	J,JP/G	Jour. of Physics, Part G (Nucl. and Part. Phys.)
<u>修改</u> 删除9	J, JRN	Journal of Radioanalytical and Nuclear Chemistry
<u>修改</u> 删除 10	J,NIM/A	Journal of Nucl. Instrum. Methods in Physics Res., Sect.A
<u>修改</u> 删除 11	J,NIM/B	Journal of Nucl. Instrum. Methods in Physics Res., Sect.B
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<u>修改</u> 删除 13	J,PR/C	Physical Review, Part C, Nuclear Physics
<u>修改</u> 删除 14	J, RCA	Radiochimica Acta
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修改 洋賃	4	J, BCA	$ \begin{array}{llllllllllllllllllllllllllllllllllll$	98	3	127	3CPRNPC	201003	Junhua Luo	Allocated	Compiled	6	Guochang CHEN	32680	n
<u>修改</u> 洋醬	5	J, PR/C	Cross-section measurement and analysis for the 149 $Sn\left(n,\alpha\right)$ 146 Md reaction at 6.0 MeV	82	1	14601	3CPRBJG	201007	Yu. M. Gledenov	Allocated	Compiled	1	Jimin WANG	<u>32679</u>	n
修改 洋楂	6	J, NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	W. P. Liu	Allocated		7	Xi TAO	S0070	ср
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修改 洋情	8	J, NP/A	Elastic resonance scattering of 138+p and 17F+p	834	1-4	100 e	3CPRAEP	201003	Y.B. Wang	Allocated		7	Xi TAO	S0068	cp
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修改 洋醬	4	J, BCA	Cross section measurements of $(n, 2n)$, (n, p) and (n, α) reactions on gadolinium isotopes in the neutron energy range of 13.5 to 14.8 MeV $\Sigma B 2$	98	3	127	3CPRNPC	201003	Junhua Luo	Allocated	Compiled	6	Guochang CHEN	32680	n
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修改 洋牆	6	J, NP/A	Lithium induced nuclear reactions of astrophysical interest	834	1-4	651 c	3CPRAEP	201003	W.P.Liu	Allocated		т	Xi TAO	S0070	сp
修改 洋醬	7	J, NP/A	Competition between fusion-fission and quasi fission processes in 325+184W reaction	834	1-4	201 c	3CPRAEP	201003	C. L. Zhang	Allocated		7		S0069	сp
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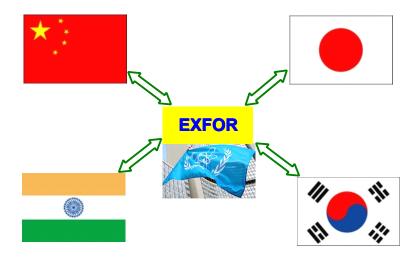




- 1987, CNDC joined into NRDC
- 1985, CNDC start to compile cp X4
- 3 "generation" compile X4, do more contribution to X4
- Collaboration Asian Group







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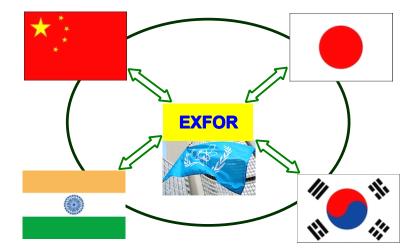
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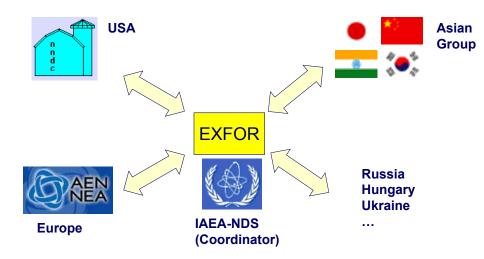
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Thank you for your attention!

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Guochang CHEN (CNDC)

Status of EXFOR Compilation in CNDC

October 27, 2010 25/25



