HOKKAIDO UNIVERSITY

Systems for Compilation and User Services in JCPRG

Apr. 18, 2012

Masayuki AIKAWA and Ayano MAKINAGA

Nuclear Reaction Data Centre (JCPRG)
Hokkaido University
JAPAN

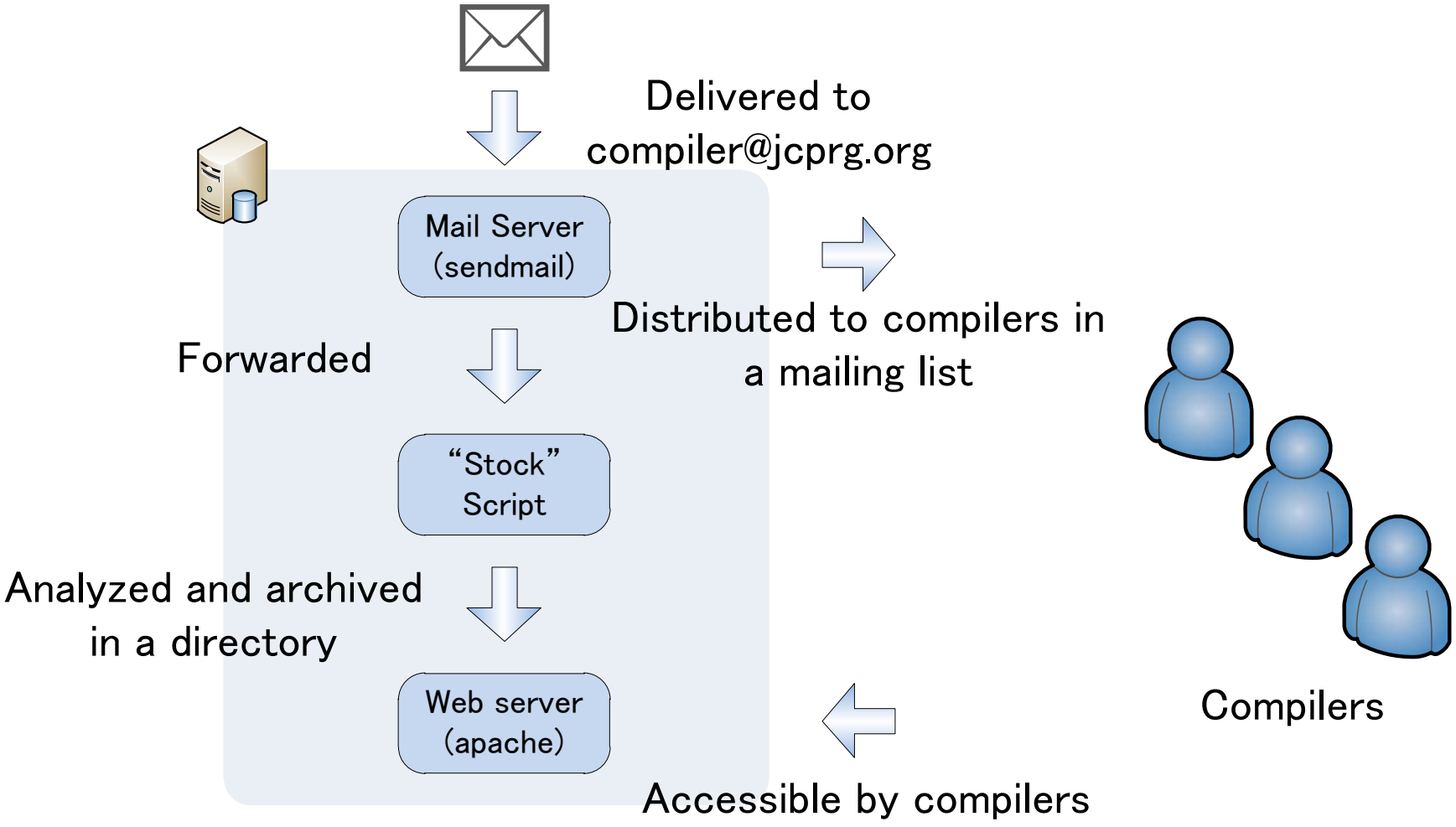
Introduction

- Hokkaido University Nuclear Reaction Data Centre (JCPRG) has developed software, e.g. editor “HENDEL” and digitizer “GSYS”.
- In addition to the software above, we have several systems.
  - Mail archive system “Stock”
  - Data retrieval system

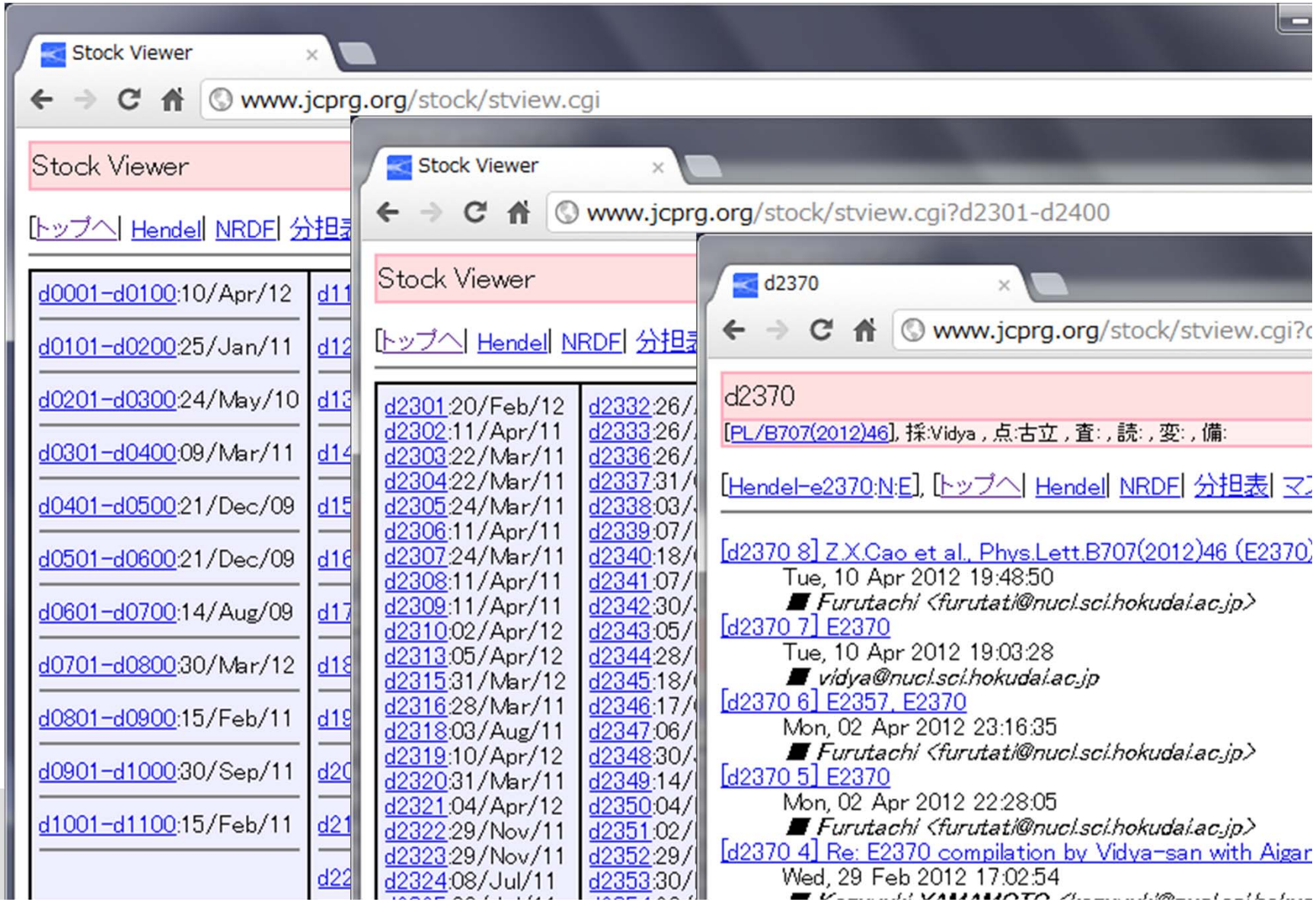
Mail archive system “Stock”

- The “Stock” system has launched since 2004.
- “Stock” works to receive, distribute, archive and open mails.
- Now over 30,000 mails are available on the website.
- Archived mails can be searched and retrieved with the help of keywords.
- This type of system is also available to ensure the provision of readily accessible answers to users' questions in future, as proposed in the Technical Meeting on “Long-term Needs for Nuclear Data Development”.

Flowchart of “Stock”



“Stock”


Stock Viewer
www.jcprg.org/stock/stview.cgi
Stock Viewer
[トップへ| Hendel| NRDF| 分担
d0001-d0100:10/Apr/12
d0101-d0200:25/Jan/11
d0201-d0300:24/May/10
d0301-d0400:09/Mar/11
d0401-d0500:21/Dec/09
d0501-d0600:21/Dec/09
d0601-d0700:14/Aug/09
d0701-d0800:30/Mar/12
d0801-d0900:15/Feb/11
d0901-d1000:30/Sep/11
d1001-d1100:15/Feb/11
Stock Viewer
www.jcprg.org/stock/stview.cgi?d2301-d2400
Stock Viewer
[トップへ| Hendel| NRDF| 分担
d2301:20/Feb/12
d2302:11/Apr/11
d2303:22/Mar/11
d2304:22/Mar/11
d2305:24/Mar/11
d2306:11/Apr/11
d2307:24/Mar/11
d2308:11/Apr/11
d2309:11/Apr/11
d2310:02/Apr/12
d2313:05/Apr/12
d2315:31/Mar/12
d2316:28/Mar/11
d2318:03/Aug/11
d2319:10/Apr/12
d2320:31/Mar/11
d2321:04/Apr/12
d2322:29/Nov/11
d2323:29/Nov/11
d2324:08/Jul/11
d2332:26/
d2333:26/
d2336:26/
d2337:31/
d2338:03/
d2339:07/
d2340:18/
d2341:07/
d2342:30/
d2343:05/
d2344:28/
d2345:18/
d2346:17/
d2347:06/
d2348:30/
d2349:14/
d2350:04/
d2351:02/
d2352:29/
d2353:30/
d2370
www.jcprg.org/stock/stview.cgi?
d2370
[PL/B707(2012)46], 採:Vidya , 点:古立 , 査: , 読: , 変: , 備:
[Hendel-e2370:N:E], [トップへ| Hendel| NRDF| 分担表|
[d2370 8] Z.X.Cao et al., Phys.Lett.B707(2012)46 (E2370)
Tue, 10 Apr 2012 19:48:50
Furutachi <furutati@nucl.sci.hokudai.ac.jp>
[d2370 7] E2370
Tue, 10 Apr 2012 19:03:28
vidya@nucl.sci.hokudai.ac.jp
[d2370 6] E2357, E2370
Mon, 02 Apr 2012 23:16:35
Furutachi <furutati@nucl.sci.hokudai.ac.jp>
[d2370 5] E2370
Mon, 02 Apr 2012 22:28:05
Furutachi <furutati@nucl.sci.hokudai.ac.jp>
[d2370 4] Re: E2370 compilation by Vidya-san with Aigar
Wed, 29 Feb 2012 17:02:54

“Stock”

Stock Viewer
www.jcprg.org/stock/stview.cgi
Stock Viewer
閲覧
aaspp
[トップへ| Hendel| NRDF| 分担表| マスタ| 辞書| 関係者向け情報| リンク| About]
d0001-d0100:10/Apr/12
d0101-d0200:25/Jan/11
d0201-d0300:24/May/10
d0301-d0400:09/Mar/11
d0401-d0500:21/Dec/09
d0501-d0600:21/Dec/09
d0601-d0700:14/Aug/09
d0701-d0800:30/Mar/12
d0801-d0900:15/Feb/11
d0901-d1000:30/Sep/11
d1001-d1100:15/Feb/11
d1101-d1200:
d1201-d1300:
d1301-d1400:
d1401-d1500:
d1501-d1600:
d1601-d1700:
d1701-d1800:
d1801-d1900:
d1901-d2000:
d2001-d2100:
d2101-d2200:
d2201-d2300:
pNamazu: aaspp / Nama
www.jcprg.org/stock/namazu.cgi?query=aaspp&wher
Namazu による全文検索システム
現在、25,281 の文書がインデックス化され、1,140,057 個のキーワードが登録さ
インデックスの最終更新日: 2012-04-10
[トップへ]
検索式: aaspp
Search!
[検索方法]
表示件数: 10
表示形式: 標準
ソート: スコア
検索結果:
参考ヒット数:

Data retrieval system

- Our data retrieval system of EXFOR consists of Perl scripts and the relational database management system MySQL.
- The EXFOR data in the MySQL database is updated periodically.

Flowchart of data update process

EXFOR format

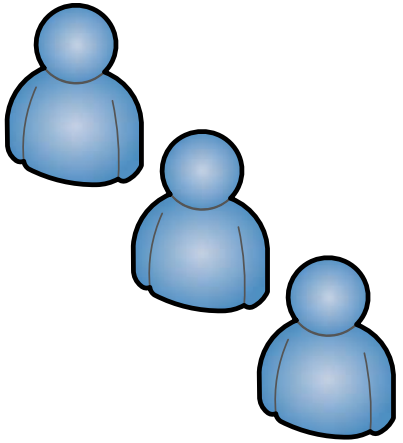
Run “TRANStoCSV” Script

CSV format

Run “CSVtoMySQL” Script

MySQL format

Web interface for user access



Users

CSV format (Intermediate file)

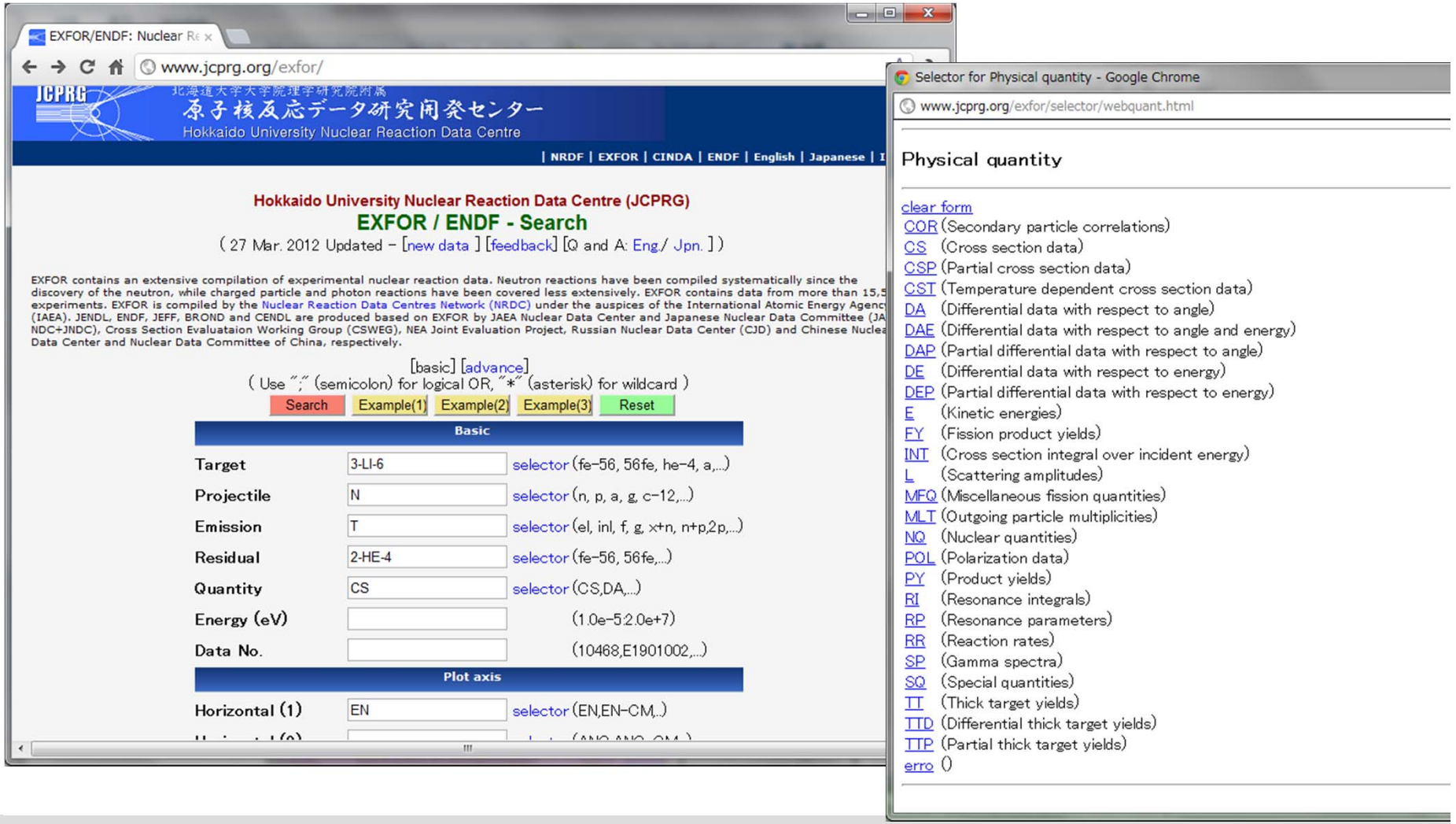
AUTHOR

"10001001","","R.W.","HOCKENBURY",""
"10001001","","Z.M.","BARTOLOME",""
"10001001","","J.R.","TATARCZUK",""
"10001001","","W.R.","MOYER",""
"10001001","","R.C.","BLOCK",""
"10001002","","R.W.","HOCKENBURY",""
"10001002","","Z.M.","BARTOLOME",""

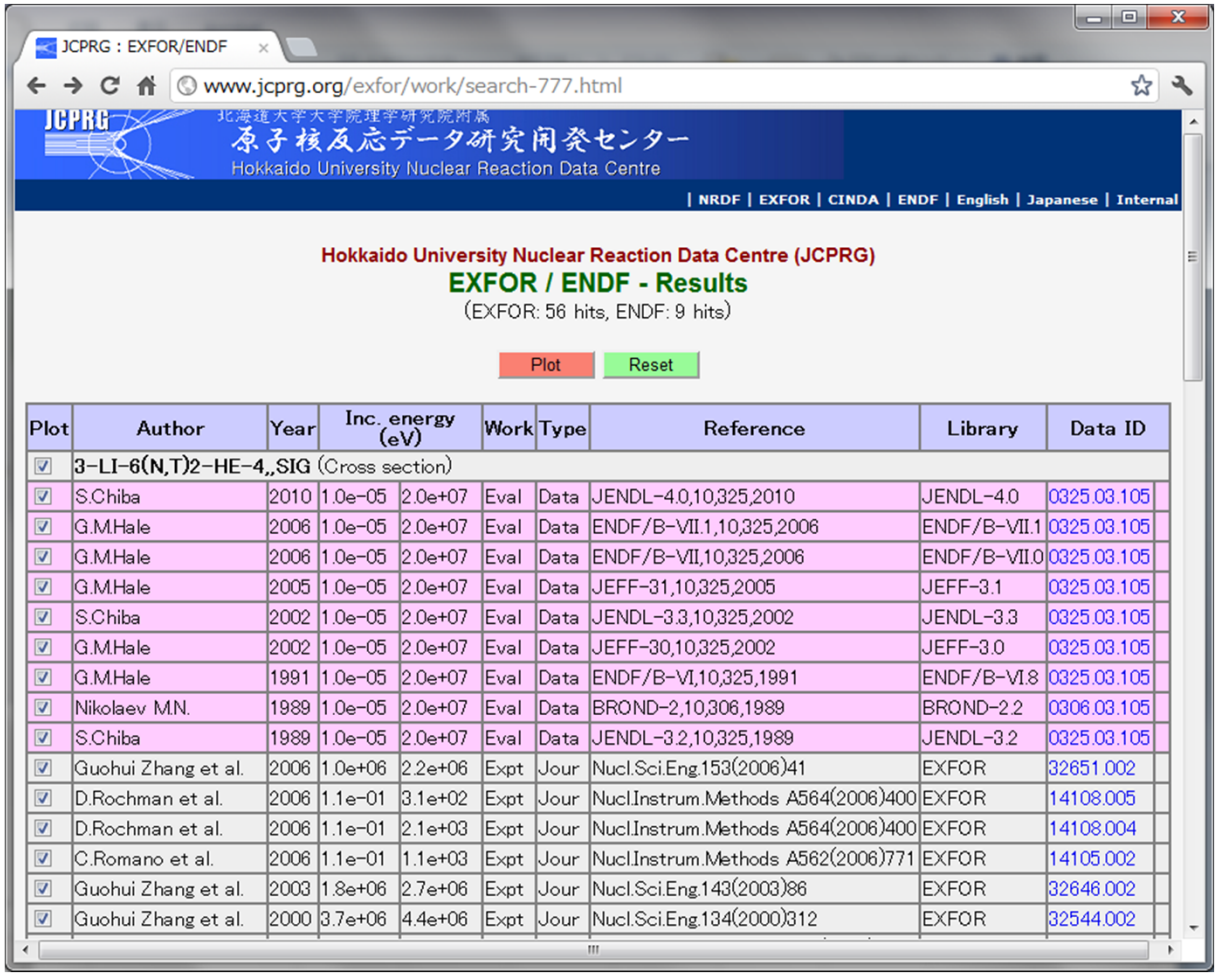
REACTION

"10001002","","(13-AL-27(N,G)13-AL-28,,SIG,,RAW)","N","capture yield/sample thickness * 10,000"
"10001003","","(26-FE-0(N,G),,SIG,,RAW)","N","capture yield/sample thickness * 10,000"
"10001004","","(28-NI-0(N,G),,SIG,,RAW)","N","capture yield/sample thickness * 10,000"
"10001005","1","(26-FE-54(N,0),,EN)","N",""
"10001005","2","(((26-FE-54(N,EL),,WID,,G)*(26-FE-54(N,G),,WID))/(26-FE-54(N,TOT),,WID))","C",""
"10001005","3","(26-FE-54(N,G),,WID,,S0)","N",""

Data retrieval system

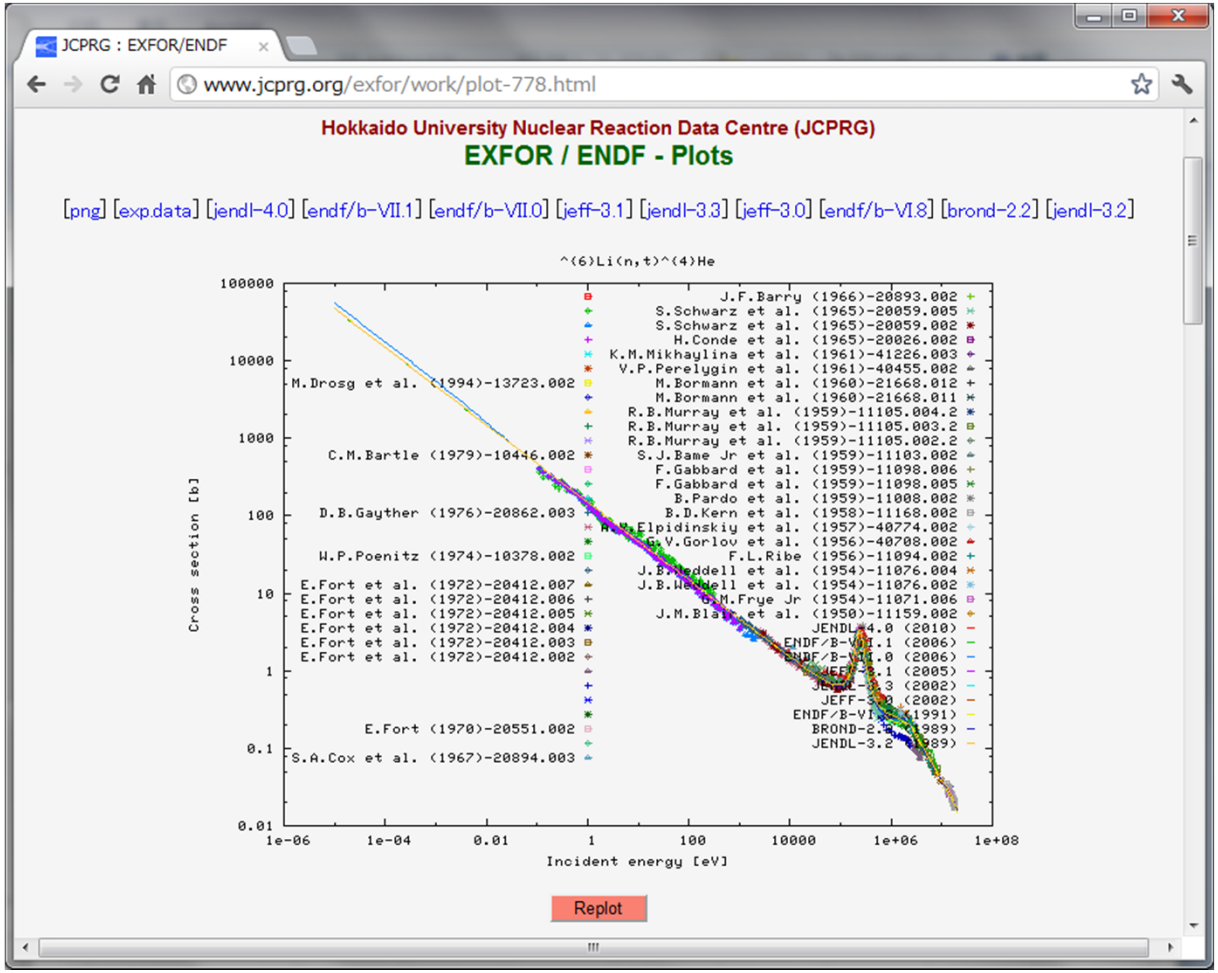
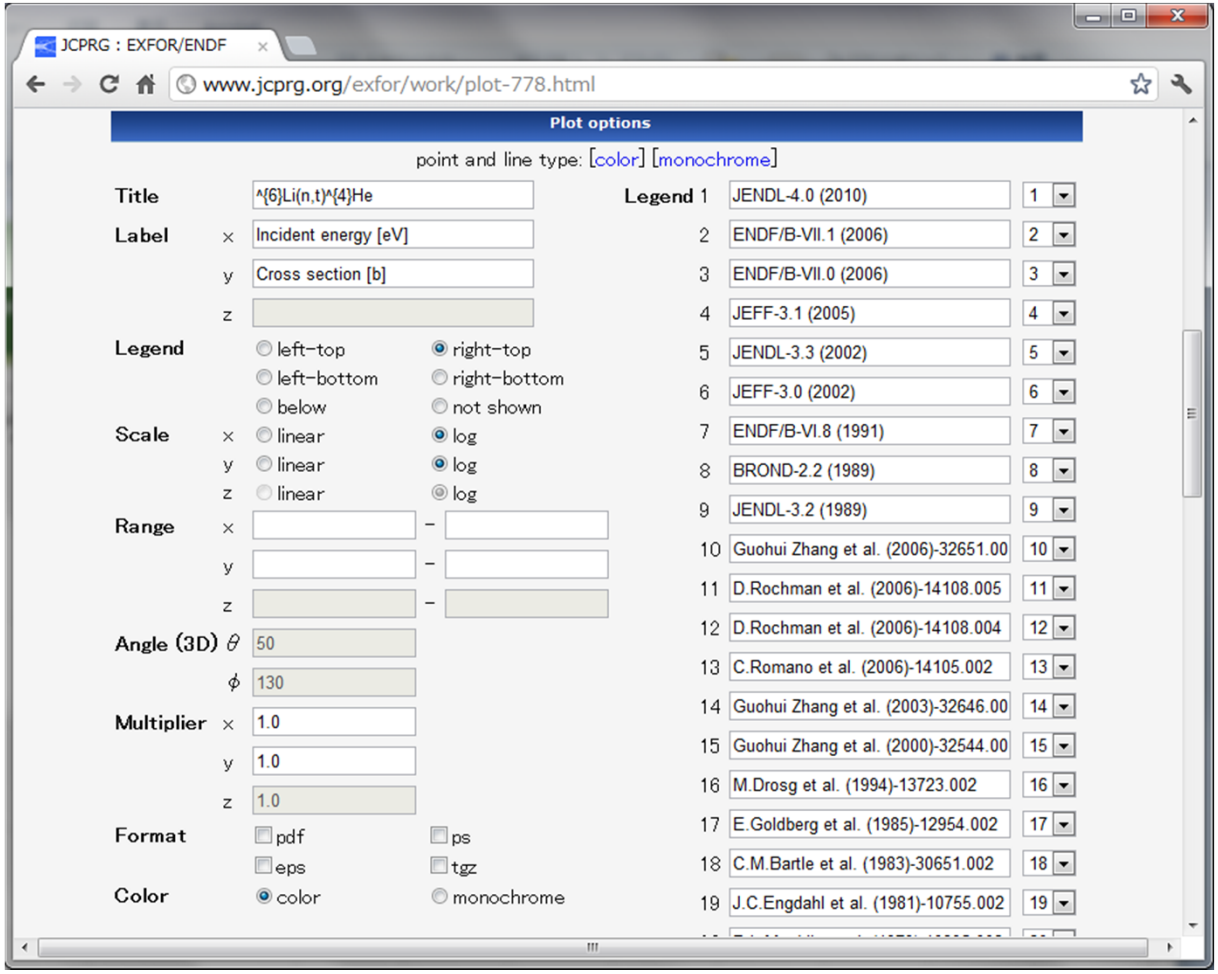


Data retrieval system



Plot	Author	Year	Inc. energy (eV)		Work	Type	Reference	Library	Data ID
☑	3-LI-6(N,T)2-HE-4,,SIG (Cross section)								
☑	S.Chiba	2010	1.0e-05	2.0e+07	Eval	Data	JENDL-4.0,10,325,2010	JENDL-4.0	0325.03.105
☑	G.M.Hale	2006	1.0e-05	2.0e+07	Eval	Data	ENDF/B-VII.1,10,325,2006	ENDF/B-VII.1	0325.03.105
☑	G.M.Hale	2006	1.0e-05	2.0e+07	Eval	Data	ENDF/B-VII,10,325,2006	ENDF/B-VII.0	0325.03.105
☑	G.M.Hale	2005	1.0e-05	2.0e+07	Eval	Data	JEFF-31,10,325,2005	JEFF-3.1	0325.03.105
☑	S.Chiba	2002	1.0e-05	2.0e+07	Eval	Data	JENDL-3.3,10,325,2002	JENDL-3.3	0325.03.105
☑	G.M.Hale	2002	1.0e-05	2.0e+07	Eval	Data	JEFF-30,10,325,2002	JEFF-3.0	0325.03.105
☑	G.M.Hale	1991	1.0e-05	2.0e+07	Eval	Data	ENDF/B-VI,10,325,1991	ENDF/B-VI.8	0325.03.105
☑	Nikolaev M.N.	1989	1.0e-05	2.0e+07	Eval	Data	BROND-2,10,306,1989	BROND-2.2	0306.03.105
☑	S.Chiba	1989	1.0e-05	2.0e+07	Eval	Data	JENDL-3.2,10,325,1989	JENDL-3.2	0325.03.105
☑	Guohui Zhang et al.	2006	1.0e+06	2.2e+06	Expt	Jour	Nucl.Sci.Eng.153(2006)41	EXFOR	32651.002
☑	D.Rochman et al.	2006	1.1e-01	3.1e+02	Expt	Jour	Nucl.Instrum.Methods A564(2006)400	EXFOR	14108.005
☑	D.Rochman et al.	2006	1.1e-01	2.1e+03	Expt	Jour	Nucl.Instrum.Methods A564(2006)400	EXFOR	14108.004
☑	C.Romano et al.	2006	1.1e-01	1.1e+03	Expt	Jour	Nucl.Instrum.Methods A562(2006)771	EXFOR	14105.002
☑	Guohui Zhang et al.	2003	1.8e+06	2.7e+06	Expt	Jour	Nucl.Sci.Eng.143(2003)86	EXFOR	32646.002
☑	Guohui Zhang et al.	2000	3.7e+06	4.4e+06	Expt	Jour	Nucl.Sci.Eng.134(2000)312	EXFOR	32544.002

Data retrieval system



Data retrieval system