

26-Fe-56 (n, p) 25-Mn-56

| | | | | |
|------------------|---|---------------------|------------------|------------------------------------|
| Abundance (%) | = | 91.754 ± 0.036 | | |
| Q | = | -2.91312 MeV | E _{thr} | = 2.96566 MeV |
| T _{1/2} | = | 2.5785 h | | |
| E _γ | = | 846.754 ± 0.020 keV | I _γ | = 98.87 ± 0.30 β ⁻ |
| E _γ | = | 1810.72 ± 0.04 keV | I _γ | = 27.19 ± 0.79 β ⁻ |
| E _γ | = | 2113.05 ± 0.04 keV | I _γ | = 14.34 ± 0.40 β ⁻ |

| | |
|-------------------|--|
| IRDF-90 | - eval. - Mar 1989 C. Fu, C. Perey, D. Hetrick, F. Perey. |
| D-99 (JENDL/D-99) | - eval. - Mar 1987 S. Iijima, H. Yamakoshi. |
| RRDF-98 | - eval. - Aug 1998 K. Zolotarev, M. Scripova, A. Pashchenko. |
| ENDF/B-VI | - eval. - Mar 1989 C. Fu, C. Perey, D. Hetrick, F. Perey. |
| JENDL-3.2 | - eval. - Mar 1987 S. Iijima, H. Yamakoshi. |
| JEF-2 | - eval. - Dec 1989 F. Froehner, F. Fabbry et al. |
| BROND-2 | - eval. - Nov 1985 V. Pronyaev et al. |

Tabl. 1

| U-235 | | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | IRDF-90 | D-99 | RRDF-98 | ENDF/B-VI | JENDL-3 | JEF-2 | BROND-2 |
| 10% | 5.70 | 5.80 | 5.70 | 5.75 | 5.80 | 5.50 | 5.60 |
| 50% | 7.20 | 7.30 | 7.20 | 7.20 | 7.30 | 7.00 | 7.10 |
| 90% | 10.10 | 10.10 | 10.00 | 10.00 | 10.10 | 9.70 | 9.90 |
| ACS | 1.00E-03 | 1.03E-03 | 1.08E-03 | 1.01E-03 | 1.03E-03 | 1.35E-03 | 1.13E-03 |

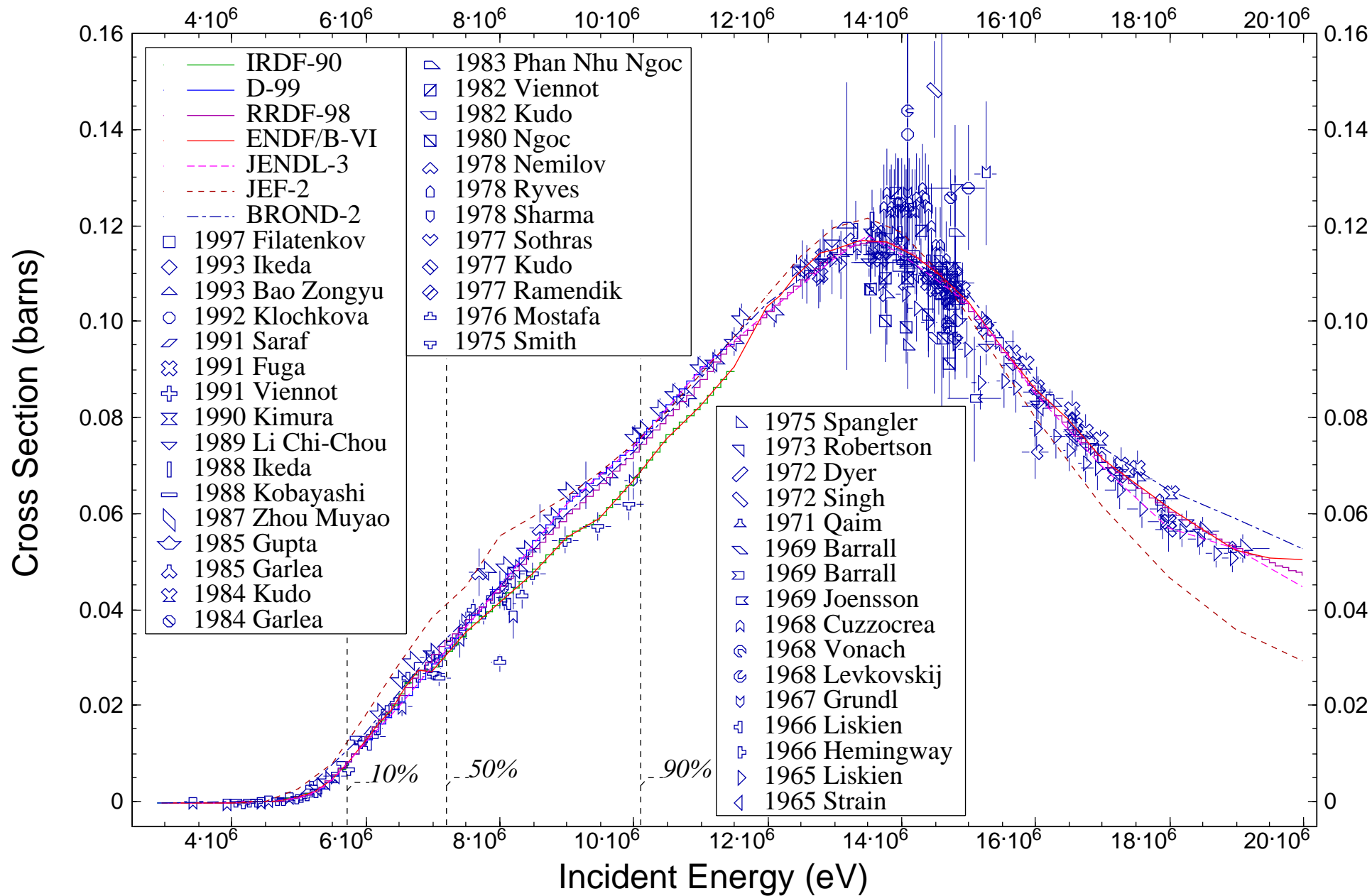
Tabl. 2

| Cf-252 | | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | IRDF-90 | D-99 | RRDF-98 | ENDF/B-VI | JENDL-3 | JEF-2 | BROND-2 |
| 10% | 5.80 | 5.80 | 5.80 | 5.80 | 5.80 | 5.60 | 5.70 |
| 50% | 7.50 | 7.60 | 7.50 | 7.50 | 7.60 | 7.20 | 7.40 |
| 90% | 10.60 | 10.60 | 10.50 | 10.60 | 10.60 | 10.20 | 10.50 |
| ACS | 1.41E-03 | 1.45E-03 | 1.52E-03 | 1.41E-03 | 1.45E-03 | 1.86E-03 | 1.58E-03 |

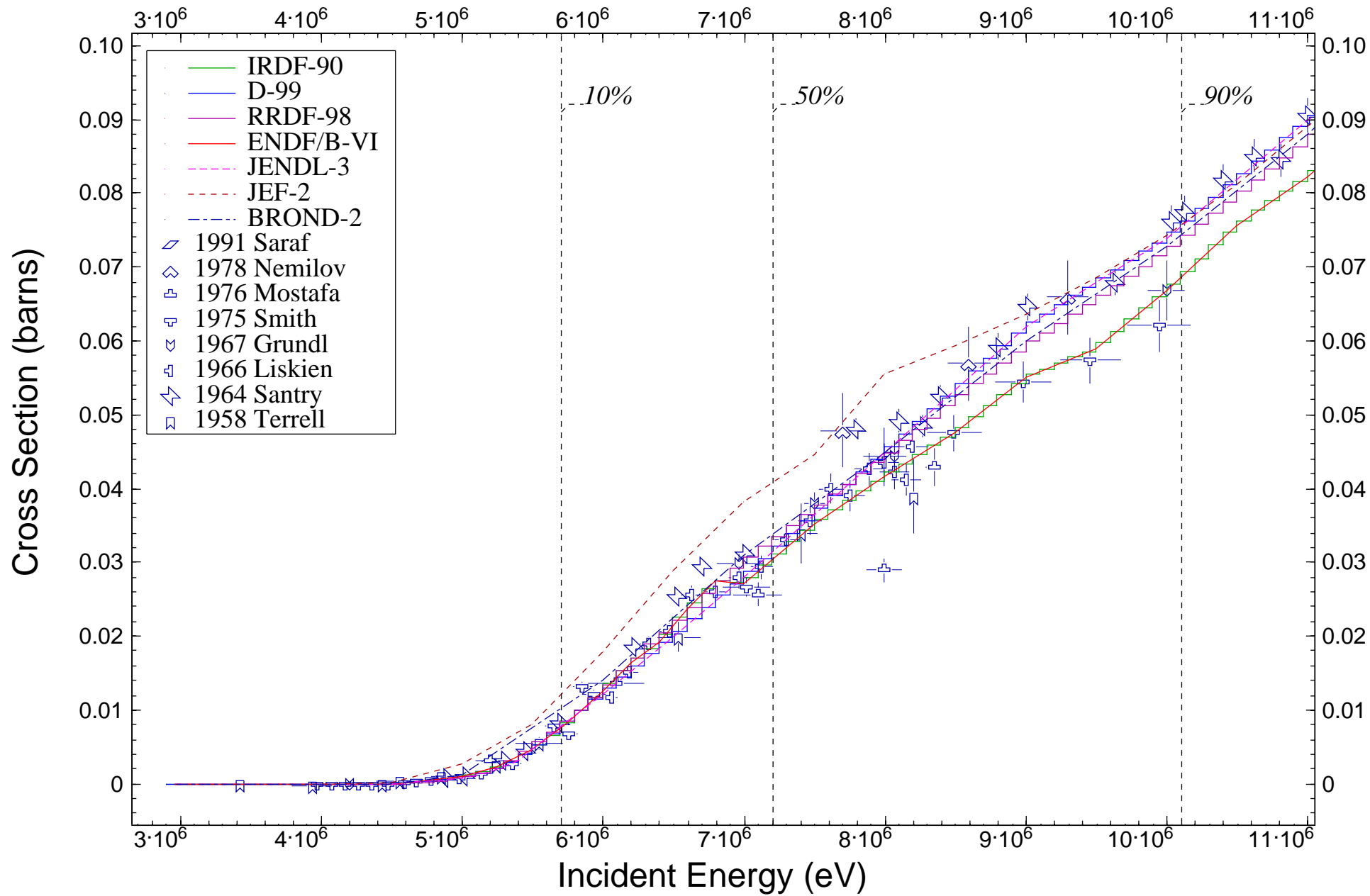
Tabl. 3

| | | | | | | |
|--------|--------|----|--------------------|-------------------|-------------------|----------|
| 1.5+07 | 1.5+07 | 1 | 1USASTF | R,AFWL-TR-68-134 | 6903 R.C.BARRALL, | 10022010 |
| 1.5+07 | 1.5+07 | 1 | 1USALRL 1USASTF | J,NP/A,138,387 | 6912 R.C.BARRALL, | 10031005 |
| 4.0+06 | 4.0+06 | 1 | 1USAANL | J,NSE,58,314 | 7511 D.L.SMITH, | 10238034 |
| 4.1+06 | 5.9+06 | 22 | 1USAANL | J,NSE,58,314 | 7511 D.L.SMITH, | 10238035 |
| 6.5+06 | 1.0+07 | 6 | 1USAANL | J,NSE,58,314 | 7511 D.L.SMITH, | 10238036 |
| 1.4+07 | 1.4+07 | 1 | 1USAVBT | J,JIN,34,1119 | 7204 N.C.DYER, | 10289002 |
| 1.4+07 | 1.5+07 | 1 | 1USALRC | J,ANS,15,147 | 7206 J.J.SINGH | 10309004 |
| 3.9+06 | 1.4+07 | 9 | 1USALAS | J,NSE,30,39 | 6710 J.A.GRUNDL | 10417007 |
| 1.5+07 | 1.5+07 | 1 | 1USASMU | T,SOTHRAS | 77 S.SOTHRAS | 10835002 |
| 1.5+07 | 1.5+07 | 1 | 1USAORL | R,ORNL-3672 | 6501 J.E.STRAIN, | 11263018 |
| 1.4+07 | 1.5+07 | 1 | 1CANCRC | J,CJP,31,267 | 53 E.B.PAUL, | 11274031 |
| 1.5+07 | 1.5+07 | 1 | 1USANRD | J,NP,10,226 | 5905 B.D.KERN, | 11464006 |
| 1.4+07 | 1.4+07 | 1 | 1USALAS | J,PR,88,1309 | 5212 S.G.FORBES | 11474005 |
| 1.4+07 | 1.4+07 | 1 | 1USAKTY | J,PR,128,1276 | 62 F.GABBARD, | 11494009 |
| 1.4+07 | 1.5+07 | 1 | 1CANCRC | P,EANDC(CAN)-16,1 | 6301 W.G.CROSS, | 11696007 |
| 1.4+07 | 1.5+07 | 3 | 1CANCRC | P,EANDC(CAN)-16,1 | 6301 W.G.CROSS, | 11696009 |
| 4.6+06 | 5.0+06 | 3 | 1CANCRC | J,CJP,42,1030 | 64 D.C.SANTRY, | 11701002 |
| 5.3+06 | 1.4+07 | 30 | 1CANCRC | J,CJP,42,1030 | 64 D.C.SANTRY, | 11701003 |
| 1.3+07 | 2.0+07 | 14 | 1CANCRC | J,CJP,42,1030 | 64 D.C.SANTRY, | 11701004 |
| 1.4+07 | 1.4+07 | 1 | 1USABAR | J,JFI,260,238 | 55 G.W.MC CLURE, | 11703002 |
| 3.4+06 | 8.2+06 | 10 | 1USALAS | J,PR,109,2031 | 58 J.TERRELL, | 11715003 |

| | | | | | |
|---------------|----|--------------------|----------------------|-----------------------|----------|
| 1.2+07 1.8+07 | 8 | 1USALAS | J,PR,109,2031 | 58 J.TERRELL, | 11715004 |
| 1.5+07 1.5+07 | 1 | 1USAARK | J,PR,122,860 | 61 D.M.CHITTENDEN II, | 11718005 |
| 8.0+06 8.0+06 | 1 | 1USAOHO | J,NSE,107,365 | 9104 S.K.SARAF, | 12812010 |
| 1.4+07 1.4+07 | 1 | 1USATEX | J,ANS,22,818 | 7511 R.SPANGLER, | 12956012 |
| 1.5+07 1.6+07 | 1 | 2SWDLND | J,AF,39,295 | 6904 B.JOENSSON, | 20164009 |
| 1.4+07 1.4+07 | 1 | 2JPNKON | J,JPJ,12,443 | 5705 S.YASUMI | 20280004 |
| 1.3+07 2.0+07 | 28 | 2ZZZGEL | J,JNE,19,73 | 6502 H.LISKIEN, | 20377002 |
| 6.1+06 8.2+06 | 17 | 2ZZZGEL | J,NUK,8,315 | 6606 H.LISKIEN, | 20387004 |
| 1.5+07 1.5+07 | 1 | 2GERJUL | C,71CANT,,121 | 7109 S.M.QAIM, | 20554006 |
| 1.5+07 1.9+07 | 6 | 2UK NPL | J,MET,14,(3),127 | 7806 T.B.RYVES, | 20772003 |
| 1.5+07 1.5+07 | 1 | 2UK NPL | J,JNE,27,139 | 7303 J.C.ROBERTSON, | 20798003 |
| 1.5+07 1.5+07 | 1 | 2GERMUN | C,68WASH,2,885 | 6803 H.K.VONACH, | 20815014 |
| 1.5+07 1.5+07 | 1 | 2GERHAM | J,NP,63,438 | 6503 M.BORMANN, | 20887015 |
| 1.5+07 1.5+07 | 1 | 2ITYTUR | J,NP,51,337 | 6402 C.G.BONAZZOLA, | 20888004 |
| 1.4+07 1.5+07 | 23 | 2ITYNAP | J,NC/B,54,53 | 6803 P.CUZZOCREA, | 20890004 |
| 1.5+07 1.5+07 | 1 | 2JPNJPN | J,NIM,141,325 | 7703 K.KUDO | 20993002 |
| 5.2+06 8.4+06 | 5 | 2UK BIR | J,NSP/B,9,10 | 7610 A.B.M.G.MOSTAFA | 21049005 |
| 1.3+07 2.0+07 | 5 | 2GERHAM | J,ZP,166,477 | 6202 M.BORMANN, | 21339005 |
| 1.4+07 1.4+07 | 1 | 2GERHAM | J,ZN/A,16,227 | 61 H.POLLEHN, | 21352002 |
| 1.4+07 1.4+07 | 1 | 2GERHAM | J,ZN/A,16,227 | 61 H.POLLEHN, | 21352007 |
| 1.3+07 1.5+07 | 2 | 2UK DUR | J,PRS/A,292,180 | 6605 J.D.HEMINGWAY, | 21372003 |
| 1.3+07 1.3+07 | 1 | 2UK GLS | J,PM,2,785 | 57 G, | 21375012 |
| 1.5+07 1.5+07 | 1 | 2FR LYO | J,JPR,21,377 | 6005 M.J.DEPRAZ, | 21419006 |
| 1.4+07 1.4+07 | 1 | 2UK HAR | J,PPS/A,70,195 | 5703 D.L.ALLAN | 21487008 |
| 1.5+07 1.5+07 | 1 | 2JPNJPN | P,NEANDC(J)-83/U,1 | 8209 K.KUDO | 21868002 |
| 1.4+07 2.0+07 | 8 | 2JPNTSU | W,KUDO | 84 K.KUDO | 21923003 |
| 1.3+07 1.5+07 | 8 | 2JPNJAE | R,JAERI-1312 | 88 Y.IKEDA, | 22089042 |
| 1.4+07 1.4+07 | 1 | 2JPNKTO | C,88MITO,261 | 88 K.KOBAYASHI, | 22093011 |
| 1.4+07 1.4+07 | 1 | 2JPNKTO | J,NSE,106,332 | 90 I.KIMURA, | 22214016 |
| 3.0+03 1.8+07 | 1 | 2JPNTOH | S,JAERI-M-90-025,277 | 9002 J.R.DUMAIS, | 22238004 |
| 1.4+01 1.5+01 | 7 | 2JPNJAE 2JPNTIT | J,NST,30,870 | 9309 Y.IKEDA, | 22312004 |
| 1.5+07 1.5+07 | 1 | 3CPRAEP | R,INDC(CPR)-16 | 8908 LI CHI-CHOU, | 30483002 |
| 1.3+07 1.8+07 | 24 | 3CPRAEP | R,INDC(CPR)-16 | 8908 LI CHI-CHOU, | 30483003 |
| 1.4+07 1.5+07 | 6 | 3HUNELU | T,NGOC | 80 P.N.NGOC, | 30562019 |
| 1.4+07 1.5+07 | 7 | 3MORMOH | C,82ANTWER,,406 | 8209 M.VIENNOT, | 30644006 |
| 1.5+07 1.5+07 | 1 | 3INDTRM | C,78BOMBAY,2,349 | 7812 D.SHARMA, | 30676002 |
| 1.5+07 1.5+07 | 1 | 3INDMUA | J,PRM,24,637 | 85 J.P.GUPTA, | 30707013 |
| 1.5+07 1.5+07 | 1 | 3CPRSST | J,CNP,9,34 | 8702 ZHOU MUYAO, | 30755003 |
| 1.5+07 1.5+07 | 1 | 3VN IPH | R,INDC(VN)-2 | 8311 PHAN NHU NGOC, | 30802002 |
| 1.5+07 1.5+07 | 1 | 3RUMCIP | S,ZFK-562,126 | 8507 I.GARLEA, | 30807008 |
| 1.5+07 1.5+07 | 1 | 3RUMPIT | J,RRP,29,421 | 84 I.GARLEA, | 30813003 |
| 1.4+07 1.5+07 | 7 | 3MORRAB | J,NSE,108,289 | 9107 M.VIENNOT, | 30979007 |
| 1.5+07 1.5+07 | 1 | 3CPRAEP | J,CNP,15,(4),341 | 93 BAO ZONGYU, | 30993003 |
| 1.5+07 1.5+07 | 1 | 3SHQNPT | J,NIM/A,309,(3),500 | 9111 P.FUGA | 31479002 |
| 1.3+07 1.8+07 | 23 | 3SHQNPT | J,NIM/A,309,(3),500 | 9111 P.FUGA | 31479003 |
| 1.5+07 1.5+07 | 1 | 4CCPKAZ | J,YF,8,(1),7 | 6807 V.N.LEVKOVSKIJ, | 40223010 |
| 7.7+06 9.3+06 | 3 | 4CCPRI | P,YFI-26,25 | 7811 YU.A.NEMILOV, | 40485002 |
| 1.4+07 1.4+07 | 1 | 4RUSTIL | J,YK,,(1),27 | 92 L.I.KLOCHKOVA, | 41118012 |
| 1.4+07 1.5+07 | 7 | 4RUSRI | R,INDC(CCP)-402 | 9701 A.A.FILATENKOV, | 41240012 |
| 1.5+07 1.5+07 | 1 | 4CCPCCP | J,AE,42,(2),136 | 7702 Z.A.RAMENDIK, | 88013002 |

$^{56}\text{Fe}(n,p)^{56}\text{Mn}$ 

$^{56}\text{Fe}(n,p)^{56}\text{Mn}$



$^{56}\text{Fe}(n,p)^{56}\text{Mn}$ 