

13-Al-27 (n, α) 11-Na-24

Abundance (%) = 100
 Q = -3.13284 MeV E_{thr} = 3.24996 MeV
 T_{1/2} = 14.9590 h 12
 E _{γ} = 1368.633 keV I _{γ} = 100.0 β^-
 E _{γ} = 2754.028 keV I _{γ} = 99.944 \pm 0.004 β^-

IRDF-90 - eval. - Apr 1990 Y. Hanrong.
 D-99 (JENDL/D-99) - eval. - Mar 1996 K. Kobayashi, Y. Uno.
 ENDF/B-VI - eval. - Sep 1994 P. Young.
 JENDL-3.2 - eval. - Mar 1988 Y. Harima, H. Kitazawa, T. Fukahori.
 JEF-2 - eval. - Jun 1986 EC Blanket Technology, Task B2.
 CENDL-2 - eval. - Aug 1991 B. Yu, S. Chiba, Y. Harima et al.

Tabl. 1

| U-235 | | | | | | |
|--------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|
| | IRDF-90 | D-99 | ENDF/B-VI | JENDL-3 | JEF-2 | CENDL-2 |
| 10% | 6.80 | 6.80 | 6.79 | 6.80 | 6.70 | 6.70 |
| 50% | 8.30 | 8.30 | 8.30 | 8.40 | 8.40 | 8.40 |
| 90% | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 | 10.90 |
| ACS | 6.95E-04 | 6.95E-04 | 6.95E-04 | 6.64E-04 | 6.93E-04 | 6.94E-04 |

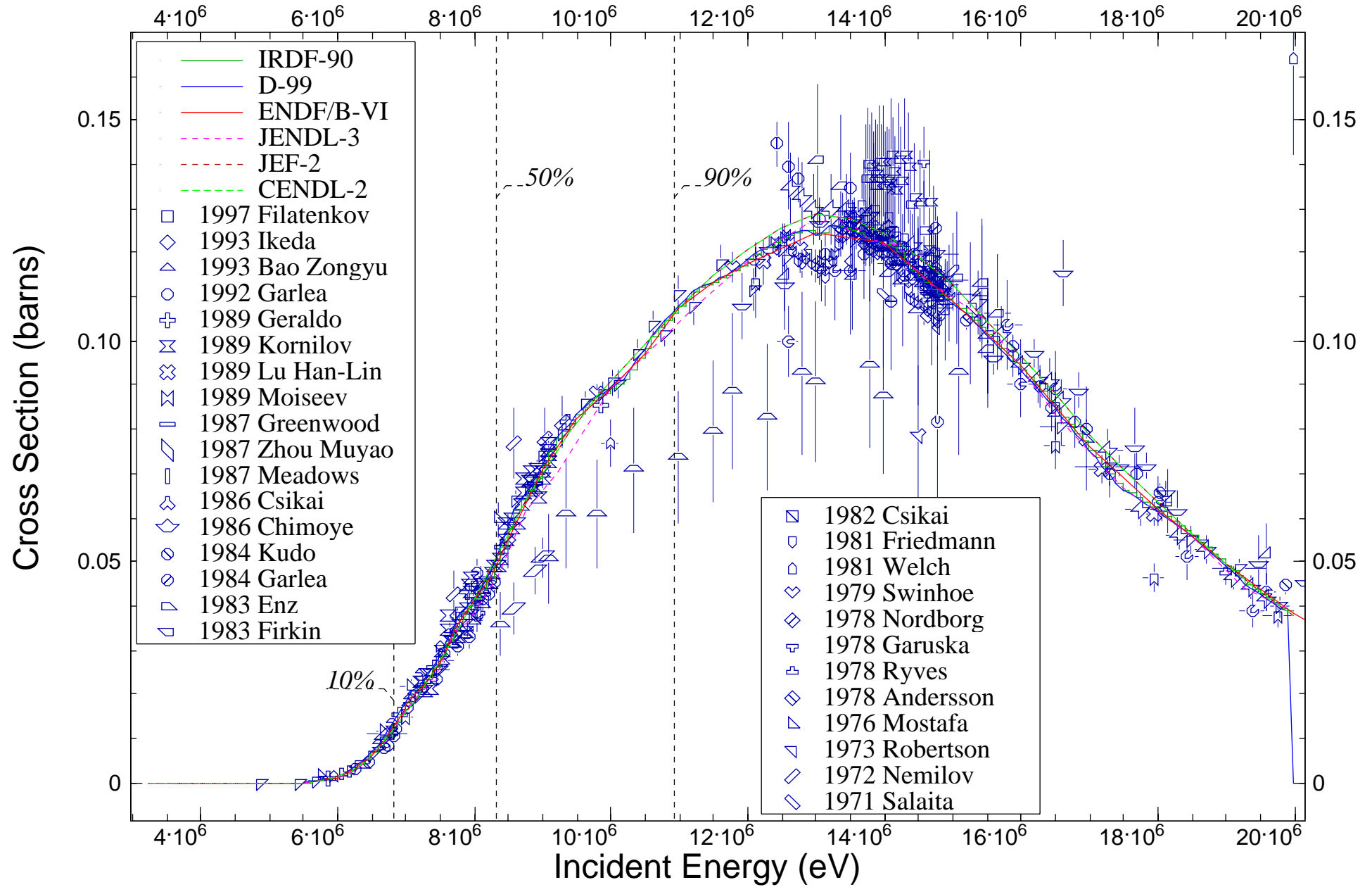
Tabl. 2

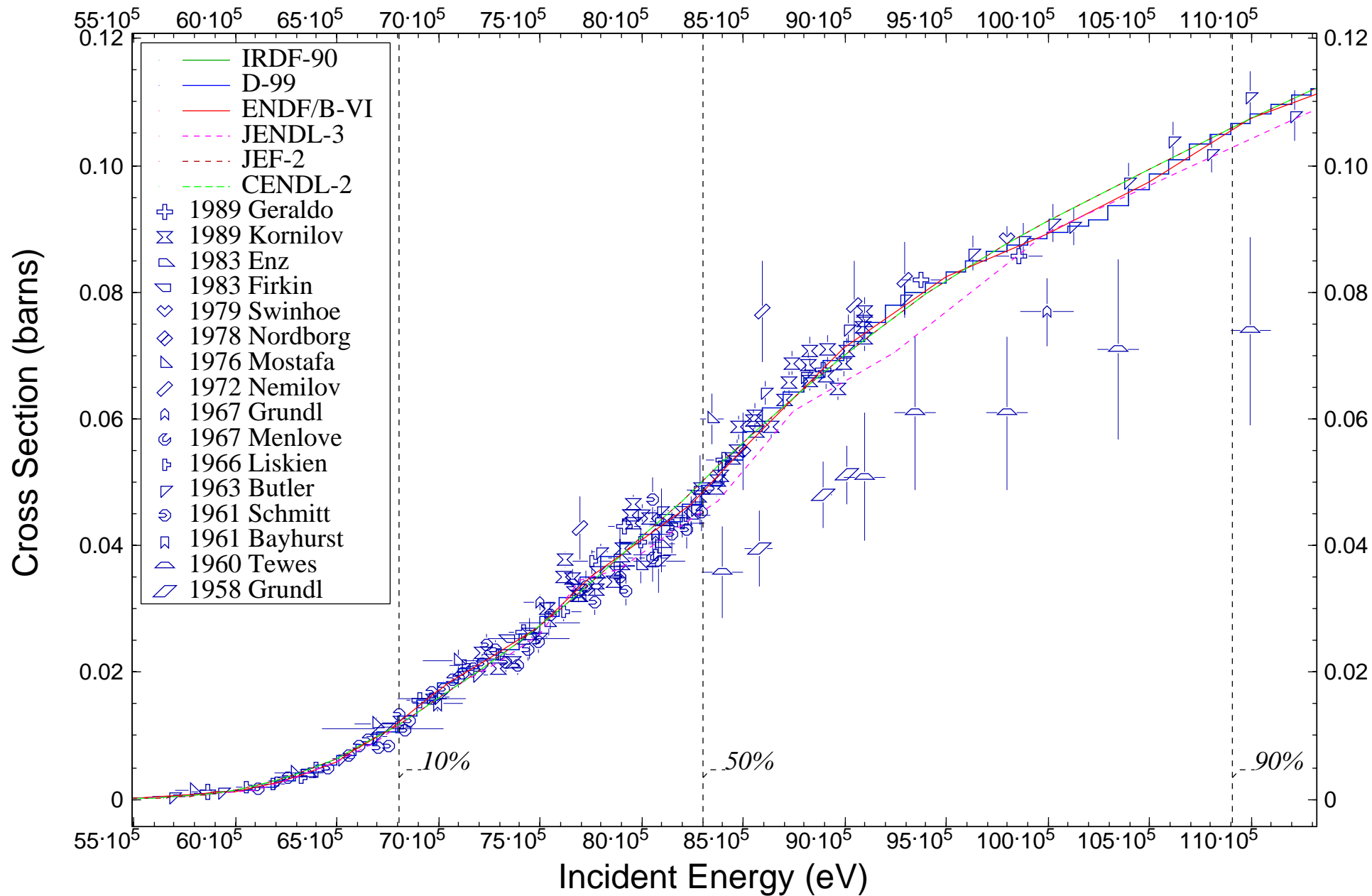
| Cf-252 | | | | | | |
|---------------|-----------------|-----------------|------------------|-----------------|-----------------|-----------------|
| | IRDF-90 | D-99 | ENDF/B-VI | JENDL-3 | JEF-2 | CENDL-2 |
| 10% | 6.90 | 6.90 | 6.90 | 6.90 | 6.90 | 6.90 |
| 50% | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 | 8.60 |
| 90% | 11.30 | 11.30 | 11.30 | 11.40 | 11.40 | 11.40 |
| ACS | 1.06E-03 | 1.06E-03 | 1.06E-03 | 1.01E-03 | 1.06E-03 | 1.06E-03 |

Tabl. 3

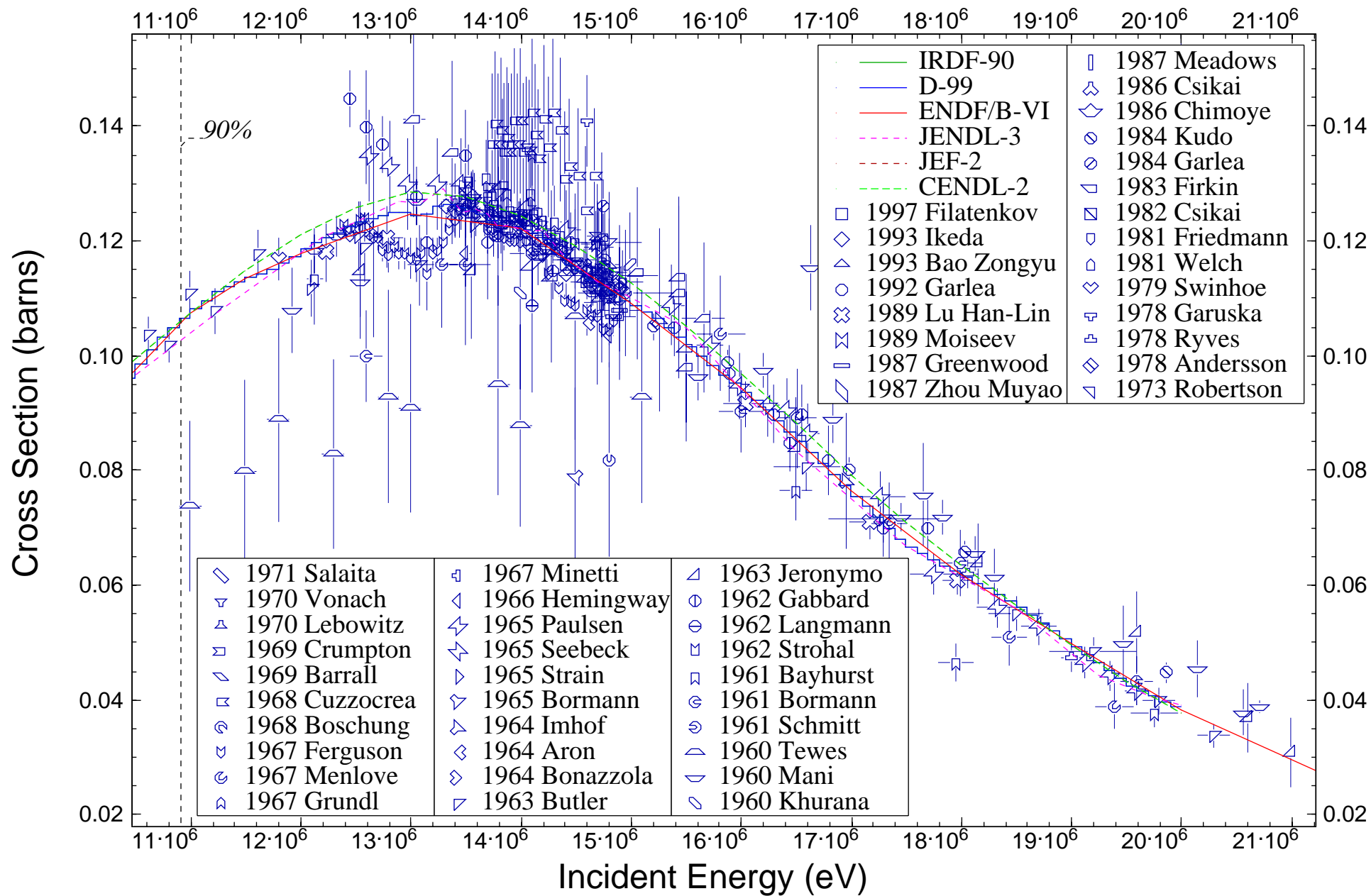
| | | | | | | |
|--------|--------|----|--------------------|-------------------|-----------------------|----------|
| 1.5+07 | 1.5+07 | 1 | 3CPRAEP | R,INDC(CPR)-16 | 8908 LU HAN-LIN, | 30523002 |
| 1.2+07 | 1.8+07 | 10 | 3CPRAEP | R,INDC(CPR)-16 | 8908 LU HAN-LIN, | 30523003 |
| 1.3+07 | 1.5+07 | 5 | 3HUNKOS | C,82ANTWER,,414 | 8209 J.CSIKAI | 30640002 |
| 1.5+07 | 1.5+07 | 1 | 3CPRSST | J,CNP,9,34 | 8702 ZHOU MUYAO, | 30755002 |
| 1.5+07 | 1.5+07 | 1 | 3RUMPIT | J,RRP,29,421 | 84 I.GARLEA, | 30813002 |
| 1.4+07 | 1.5+07 | 5 | 3TAICHM | J,ZP/A,235,69 | 8609 T.CHIMOYE, | 30821002 |
| 1.3+07 | 1.5+07 | 12 | 3HUNKOS | J,ZP/A,325,69 | 86 J.CSIKAI, | 30933002 |
| 1.5+07 | 1.5+07 | 1 | 3CPRAEP | J,CNP,15,(4),341 | 93 BAO ZONGYU, | 30993002 |
| 1.5+07 | 1.5+07 | 1 | 3RUMBUC | J,RRP,37,(1),19 | 92 I.GARLEA, | 31459008 |
| 7.7+06 | 9.3+06 | 4 | 4CCPRI | R,YK-9,53 | 72 JU.A.NEMILOV.JU.N. | 40135002 |
| 1.5+07 | 1.5+07 | 1 | 4CCPRI | J,AE,16,(4),370 | 6404 P.M.ARON, | 40686002 |
| 7.1+06 | 9.1+06 | 23 | 4CCPFEI 3HUNKOS | J,PR/C,39,(3),789 | 8903 N.V.KORNILOV, | 41048002 |
| 7.6+06 | 9.1+06 | 19 | 4CCPFEI 3HUNKOS | J,PR/C,39,(3),789 | 8903 N.V.KORNILOV, | 41048003 |
| 7.6+06 | 9.1+06 | 19 | 4CCPFEI 3HUNKOS | J,PR/C,39,(3),789 | 8903 N.V.KORNILOV, | 41048004 |
| 1.5+07 | 1.5+07 | 1 | 4CCPMIM | J,YK,,(3),101 | 8912 N.N.MOISEEV, | 41051002 |
| 1.5+07 | 1.5+07 | 1 | 4CCPMIM | J,YK,,(3),101 | 8912 N.N.MOISEEV, | 41051003 |
| 1.5+07 | 1.5+07 | 1 | 4CCPMIM | J,YK,,(3),101 | 8912 N.N.MOISEEV, | 41051004 |
| 1.3+07 | 1.5+07 | 15 | 4RUSRI | R,INDC(CCP)-402 | 9701 A.A.FILATENKOV, | 41240002 |

$^{27}\text{Al}(n,a)^{24}\text{Na}$



$^{27}\text{Al}(n,a)^{24}\text{Na}$ 

$^{27}\text{Al}(n,a)^{24}\text{Na}$



$^{27}\text{Al}(n,\alpha)^{24}\text{Na}$ 