

## 22-Ti-47 (n, p) 21-Sc-47

Abundance (%) =  $7.44 \pm 0.02$   
 $Q = 0.18226 \text{ MeV}$        $E_{\text{thr}} = 0.0$   
 $T_{1/2} = 3.345 \text{ d}$   
 $E_{\gamma} = 159.381 \pm 0.015 \text{ keV}$        $I_{\gamma} = 67.90 \pm 0.15$        $\beta^{-}$

IRDF-90                      - eval. - Jan 1977 C. Rhilis, O. Bersillon, D. Smith et al.  
 D-99 (JENDL/D-99)        - eval. - Jan 1996 K. Kobayashi, N. Odano.  
 ENDF/B-VI                   - eval. - Jan 1977 C. Rhilis, O. Bersillon, D. Smith et al.  
 JENDL-3.2                   - eval. - Sep 1988 K. Kobayashi, H. Hashikura.

**Tabl. 1**

| <b>U-235</b> |                 |                 |                  |                 |
|--------------|-----------------|-----------------|------------------|-----------------|
|              | <b>IRDF-90</b>  | <b>D-99</b>     | <b>ENDF/B-VI</b> | <b>JENDL-3</b>  |
| 10%          | 2.00            | 2.00            | 2.10             | 2.30            |
| 50%          | 3.70            | 3.60            | 3.75             | 3.90            |
| 90%          | 6.60            | 6.60            | 6.40             | 6.20            |
| <b>ACS</b>   | <b>1.73E-02</b> | <b>1.66E-02</b> | <b>2.16E-02</b>  | <b>2.41E-02</b> |

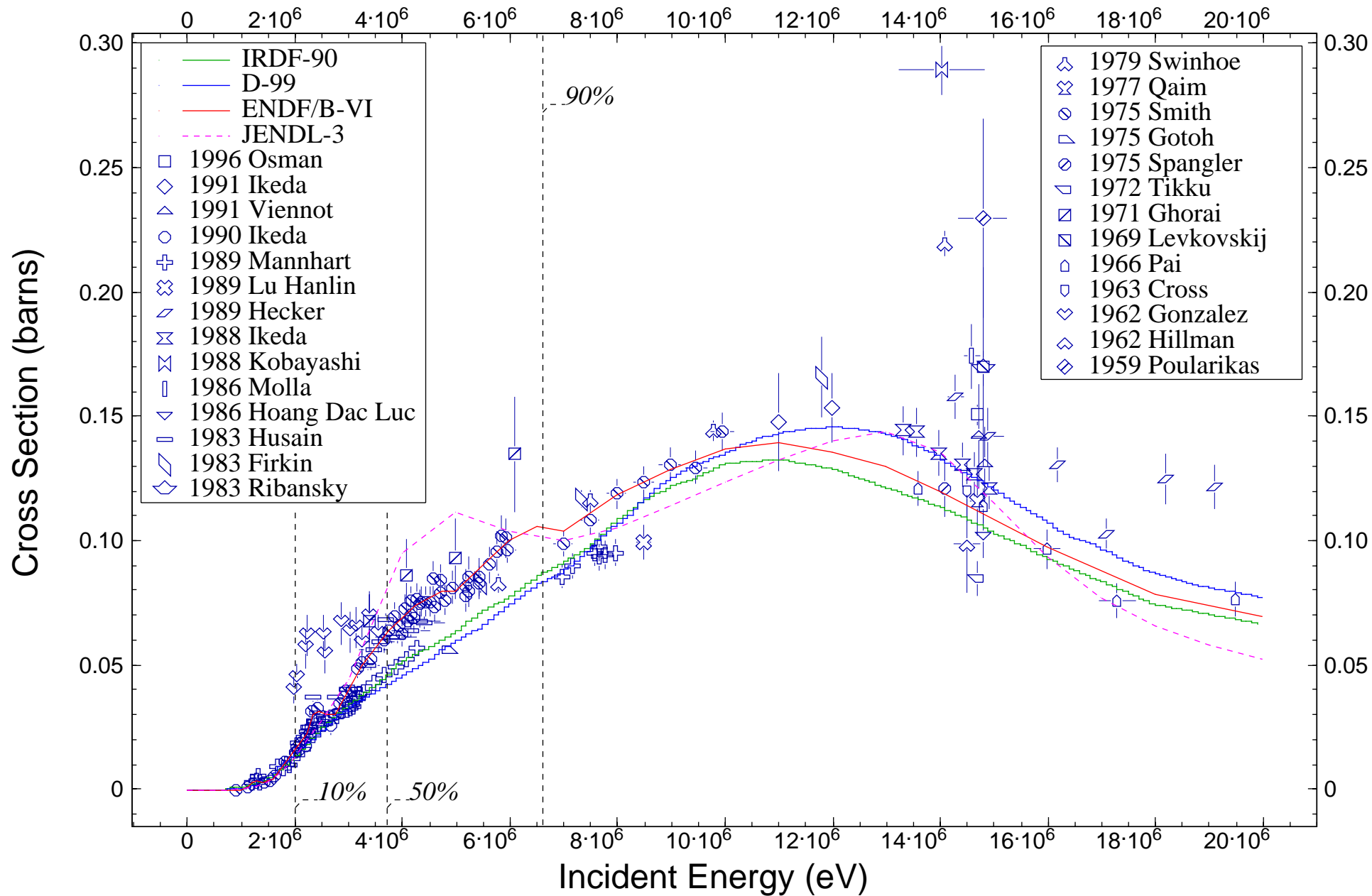
**Tabl. 2**

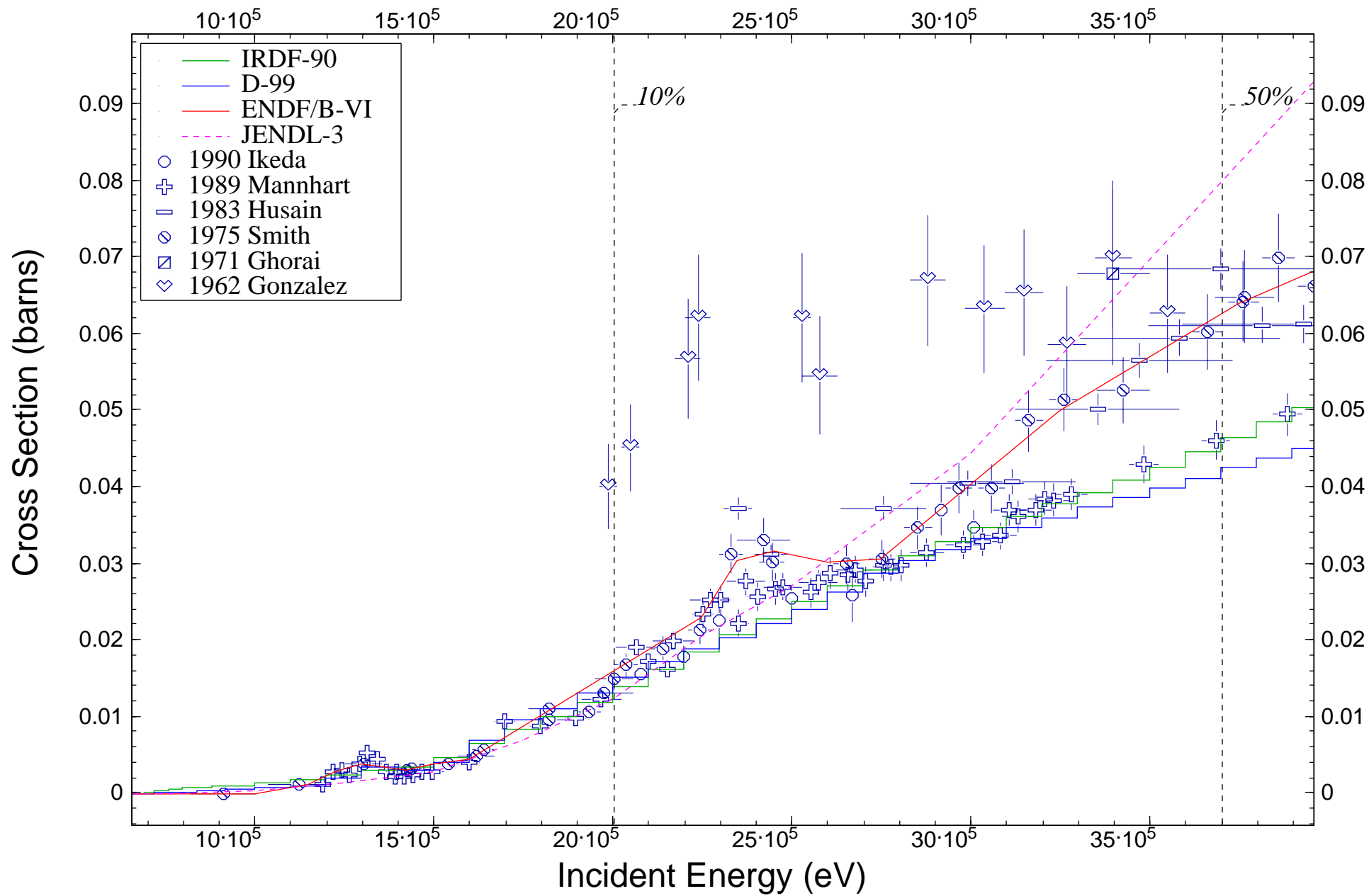
| <b>Cf-252</b> |                 |                 |                  |                 |
|---------------|-----------------|-----------------|------------------|-----------------|
|               | <b>IRDF-90</b>  | <b>D-99</b>     | <b>ENDF/B-VI</b> | <b>JENDL-3</b>  |
| 10%           | 2.10            | 2.10            | 2.20             | 2.30            |
| 50%           | 3.80            | 3.80            | 3.90             | 4.00            |
| 90%           | 7.00            | 7.10            | 6.80             | 6.50            |
| <b>ACS</b>    | <b>1.94E-02</b> | <b>1.85E-02</b> | <b>2.41E-02</b>  | <b>2.69E-02</b> |

**Tabl. 3**

|               |    |                    |                      |                   |          |
|---------------|----|--------------------|----------------------|-------------------|----------|
| 3.4+06 6.1+06 | 4  | 1USAAUB            | J,JNE,25,319         | 7108 S.K.GHORAI,  | 10180003 |
| 9.1+05 4.0+06 | 35 | 1USAANL            | J,NSE,58,314         | 7511 D.L.SMITH,   | 10238026 |
| 4.0+06 5.9+06 | 30 | 1USAANL            | J,NSE,58,314         | 7511 D.L.SMITH,   | 10238027 |
| 5.9+06 1.0+07 | 8  | 1USAANL            | J,NSE,58,314         | 7511 D.L.SMITH,   | 10238028 |
| 1.5+07 1.5+07 | 1  | 1USAARK            | J,PR,115,989         | 59 A.POULARIKAS,  | 11484006 |
| 1.4+07 1.5+07 | 1  | 1USABNL            | J,NP,37,78           | 62 M.HILLMAN      | 11610003 |
| 1.4+07 2.0+07 | 5  | 1CANTOR            | J,CJP,44,2337        | 66 H.L.PAI        | 11630004 |
| 1.4+07 1.5+07 | 1  | 1CANCRC            | P,EANDC(CAN)-16,1    | 6301 W.G.CROSS,   | 11631003 |
| 1.4+07 1.4+07 | 1  | 1USATEX            | J,ANS,22,818         | 7511 R.SPANGLER,  | 12956009 |
| 1.4+07 1.9+07 | 6  | 1USAAUB<br>1USAALS | J,NIM/B,40/41,478    | 8904 W.V.HECKER,  | 13133002 |
| 1.2+06 1.9+06 | 20 | 1USAANL<br>2GERPTB | S,NEANDC-259,121     | 8909 W.MANNHART,  | 13176002 |
| 2.0+06 4.3+06 | 40 | 1USAANL<br>2GERPTB | S,NEANDC-259,121     | 8909 W.MANNHART,  | 13176003 |
| 7.0+06 8.0+06 | 7  | 1USAANL<br>2GERPTB | S,NEANDC-259,121     | 8909 W.MANNHART,  | 13176004 |
| 1.5+07 1.5+07 | 1  | 2GERJUL            | J,NP/A,283,269       | 7706 S.M.QAIM,    | 20721004 |
| 5.8+06 9.8+06 | 3  | 2UK HAR            | P,AERE-PR/NP-26,39   | 7903 M.T.SWINHOE, | 20986004 |
| 1.4+07 1.4+07 | 1  | 2UK HAR            | P,AERE-PR/NP-26,39   | 7903 M.T.SWINHOE, | 20986007 |
| 4.8+06 4.9+06 | 1  | 2JPNJAE            | P,JAERI-6320,165     | 7511 H.GOTOH,     | 20990002 |
| 2.3+06 4.4+06 | 15 | 2UK BIA            | J,ARI,34,(4),731     | 83 H.A.HUSAIN,    | 21879003 |
| 5.5+06 1.2+07 | 4  | 2UK HAR            | R,AERE-M-3350        | 8309 S.FIRKIN     | 21941002 |
| 1.3+07 1.5+07 | 6  | 2JPNJAE            | R,JAERI-1312         | 88 Y.IKEDA,       | 22089027 |
| 1.4+07 1.4+07 | 1  | 2JPNKTO            | C,88MITO,261         | 88 K.KOBAYASHI,   | 22093006 |
| 2.1+06 3.0+06 | 8  | 2JPNJAE            | P,NEANDC(J)-155,11   | 9008 Y.IKEDA,     | 22191002 |
| 1.1+07 1.2+07 | 2  | 2JPNJAE            | S,JAERI-M-91-032,281 | 9103 Y.IKEDA,     | 22209003 |

|        |        |    |         |                  |                      |          |
|--------|--------|----|---------|------------------|----------------------|----------|
| 1.5+07 | 1.5+07 | 1  | 3INDSAH | C,72CHANDG,2,115 | 7212 V.K.TIKKU,      | 30394002 |
| 1.5+07 | 1.5+07 | 1  | 3CSRSLO | J,JP/G,9,1537    | 8312 I.RIBANSKY,     | 30660004 |
| 8.5+06 | 8.5+06 | 1  | 3CPRAEP | R,INDC(CPR)-16   | 8909 LU HANLIN,      | 30733005 |
| 1.5+07 | 1.5+07 | 1  | 3VN IPH | P,INDC(VN)-5     | 8609 HOANG DAC LUC,  | 30810009 |
| 1.5+07 | 1.5+07 | 1  | 3BANSAV | R,INDC(BAN)-003  | 8609 N.I.MOLLA,      | 30825004 |
| 1.5+07 | 1.5+07 | 2  | 3MORRAB | J,NSE,108,289    | 9107 M.VIENNOT,      | 30979003 |
| 2.0+06 | 3.6+06 | 12 | 3CHLCHL | J,PR,126,271     | 62 L.GONZALEZ,       | 31165002 |
| 1.5+07 | 1.5+07 | 1  | 3SUDKHA | R,INDC(SUD)-001  | 9610 K.T.OSMAN,      | 31464007 |
| 1.5+07 | 1.5+07 | 1  | 4CCPKAZ | J,YF,10,(1),44   | 6907 V.N.LEVKOVSKIJ, | 40226003 |

$^{47}\text{Ti}(n,p)^{47}\text{Sc}$ 

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