

## 30-Zn-64 (n, p) 29-Cu-64

Abundance (%) = 48.63 ± 0.60  
 Q = 0.20362 MeV                      E<sub>thr</sub> = 0.0  
 T<sub>1/2</sub> = 12.700 h 2  
 E<sub>γ</sub> = 1345.77 ± 0.06 keV              I<sub>γ</sub> = 0.473 ± 0.010              EC+β<sup>+</sup>

IRDF-90                      - eval. - Apr 1991 M. Wagner et al.  
 D-99 (JENDL/D-99)        - eval. - Apr 1999 Y. Uno.  
 JEF-2                         - eval. - Jun 1984 JEF SCG.

**Tabl. 1**

<b>U-235</b>			
	<b>IRDF-90</b>	<b>D-99</b>	<b>JEF-2</b>
10%	2.70	2.60	2.60
50%	4.00	4.20	4.00
90%	6.50	6.70	6.60
<b>ACS</b>	<b>3.72E-02</b>	<b>3.37E-02</b>	<b>4.25E-02</b>

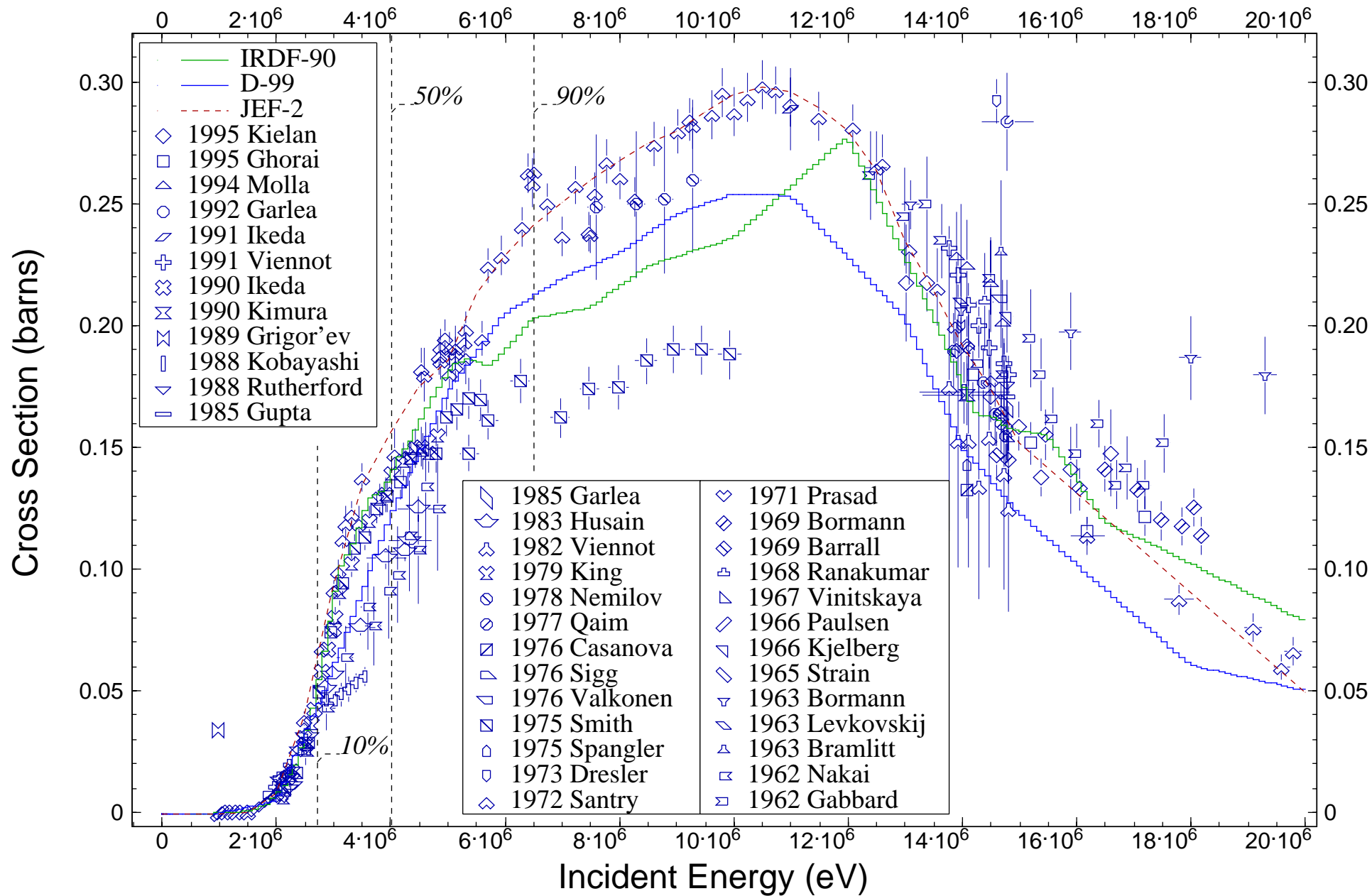
**Tabl. 2**

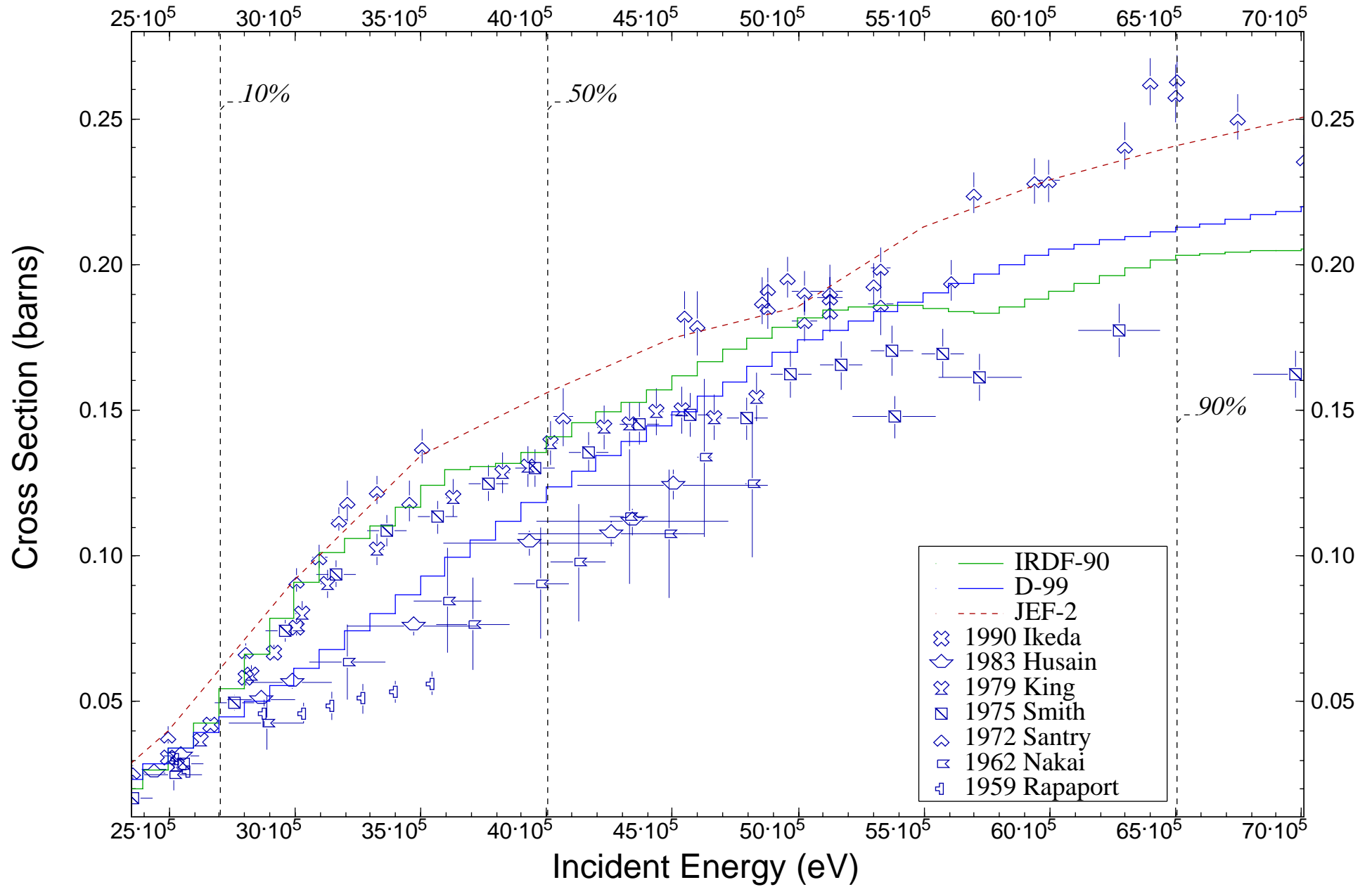
<b>Cf-252</b>			
	<b>IRDF-90</b>	<b>D-99</b>	<b>JEF-2</b>
10%	2.70	2.70	2.70
50%	4.10	4.30	4.10
90%	6.90	7.10	7.00
<b>ACS</b>	<b>4.21E-02</b>	<b>3.84E-02</b>	<b>4.81E-02</b>

**Tabl. 3**

1.5+07 1.5+07	1	1USASTF	R,AFWL-TR-68-134	6903 R.C.BARRALL,	10022017
1.5+06 5.3+06	22	1CANCRC	J,CJP,50,2536	72 D.C.SANTRY,	10224002
4.9+06 6.5+06	8	1CANCRC	J,CJP,50,2536	72 D.C.SANTRY,	10224003
5.0+06 1.4+07	33	1CANCRC	J,CJP,50,2536	72 D.C.SANTRY,	10224004
1.2+07 2.0+07	11	1CANCRC	J,CJP,50,2536	72 D.C.SANTRY,	10224005
1.2+06 4.0+06	15	1USAANL	J,NSE,58,314	7511 D.L.SMITH,	10238043
4.2+06 5.6+06	8	1USAANL	J,NSE,58,314	7511 D.L.SMITH,	10238044
5.4+06 9.9+06	10	1USAANL	J,NSE,58,314	7511 D.L.SMITH,	10238045
1.5+07 1.5+07	1	1USAARK	T,SIGG	76 R.A.SIGG	10776006
1.5+07 1.5+07	1	1USAORL	R,ORNL-3672	6501 J.E.STRAIN,	11263027
1.4+07 1.5+07	1	1CANCRC	J,CJP,31,267	53 E.B.PAUL,	11274037
1.2+07 1.8+07	17	1USAKTY	J,PR,128,1276	62 F.GABBARD,	11494011
1.4+07 1.4+07	1	1USAGIT	J,NP/A,122,679	68 N.RANAKUMAR,	11515007
1.5+07 1.5+07	1	1USAARK	J,PR,131,2649	6309 E.T.BRAMLITT,	11590023
1.5+07 1.5+07	1	1USAARK	J,NP,15,326	6002 I.L.PREISS,	11740018
1.4+07 1.4+07	1	1USALAS	J,NP,19,40	60 A.H.ARMSTRONG,	11802003
1.4+07 1.4+07	1	1USATEX	J,ANS,22,818	7511 R.SPANGLER,	12956003
1.5+07 1.5+07	1	1USANMX	R,LA-11233-T	8803 D.A.RUTHERFORD	13136003
1.4+07 1.7+07	4	1USAAUB 1USAALS	J,ANE,22,11	9501 S.K.GHORAI,	13597002
1.5+07 1.5+07	1	2NOROSL	J,RCA,5,28	6603 A.KJELBERG,	20107002
2.5+06 4.6+06	6	2JPNJAE	J,JPJ,17,1215	6208 K.NAKAI,	20291003
1.8+06 4.8+06	7	2JPNJAE	J,JPJ,17,1215	6208 K.NAKAI,	20291005
1.5+07 1.5+07	1	2SF JYV	R,JU-RR-1/1976	76 M.VALKONEN	20673010
1.5+07 1.5+07	1	2GERJUL	J,NP/A,283,269	7706 S.M.QAIM,	20721057
1.4+07 1.4+07	1	2SPNVLD	J,ARS,72,(3),186	7607 J.L.CASANOVA,	20748002
1.4+07 1.8+07	10	2GERHAM	J,NP/A,130,195	6906 M.BORMANN,	20835006

1.3+07 1.9+07	5	2GERHAM	J,ZP,174,1	6302 M.BORMANN,	21343009
9.9+05 2.2+06	24	2ZZZGEL	C,66PARIS,217	6610 A.PAULSEN,	21741005
2.0+06 4.5+06	13	2UK BIA	J,ARI,34,(4),731	83 H.A.HUSAIN,	21879005
1.4+07 1.4+07	1	2JPNKTO	C,88MITO,261	88 K.KOBAYASHI,	22093016
2.1+06 3.0+06	8	2JPNJAE	P,NEANDC(J)-155,11	9008 Y.IKEDA,	22191005
1.1+07 1.1+07	1	2JPNJAE	S,JAERI-M-91-032,281	9103 Y.IKEDA,	22209005
1.4+07 1.4+07	1	2JPNKTO	J,NSE,106,332	90 I.KIMURA,	22214021
2.0+06 3.6+06	12	3CHLSAN	J,PR,114,565	5904 J.RAPAPORT,	30218002
1.5+07 1.5+07	1	3POLLOU	P,INR-1464,12	7305 J.DRESLER,	30263011
1.5+07 1.5+07	1	3INDMUA	J,NC/A,3,(3),467	7106 R.PRASAD,	30336020
2.1+06 4.8+06	18	3CHFSHI	J,NSF,16,(6),71	7906 C.H.KING,	30529002
1.4+07 1.5+07	7	3MORMOH	P,MOH-5,10	82 M.VIENNOT,	30644018
1.5+07 1.5+07	1	3INDMUA	J,PRM,24,637	85 J.P.GUPTA,	30707015
1.5+07 1.5+07	1	3RUMCIP	S,ZFK-562,126	8507 I.GARLEA,	30807007
1.4+07 1.5+07	7	3MORRAB	J,NSE,108,289	9107 M.VIENNOT,	30979015
1.4+07 1.5+07	5	3AULCBR	J,NP,32,106	62 E.WEIGOLD,	31110005
1.4+07 1.5+07	4	3BANRAM	C,94GATLIN,2,938	9405 N.I.MOLLA,	31449011
1.5+07 1.5+07	1	3RUMBUC	J,RRP,37,(1),19	92 I.GARLEA,	31459018
1.3+07 1.7+07	8	3POLIPJ	J,ZP/A,352,137	95 D.KIELAN,	31460002
1.5+07 1.5+07	1	4CCPKAZ	J,YF,5,(6),1175	6706 G.P.VINITSKAYA,	40009003
1.4+07 1.4+07	1	4CCPKAZ	J,ZET,45,(2),305	63 V.N.LEVKOVSKIJ	40016019
7.6+06 9.3+06	4	4CCPRI	P,YFI-26,25	7811 YU.A.NEMILOV,	40485003
1.0+06 1.0+06	1	4CCPFRT	J,YK,,(3),117	8912 E.I.GRIGOREV,	41052002

$^{64}\text{Zn}(n,p)^{64}\text{Cu}$ 

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