

Program Complot  
(Version 2018-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

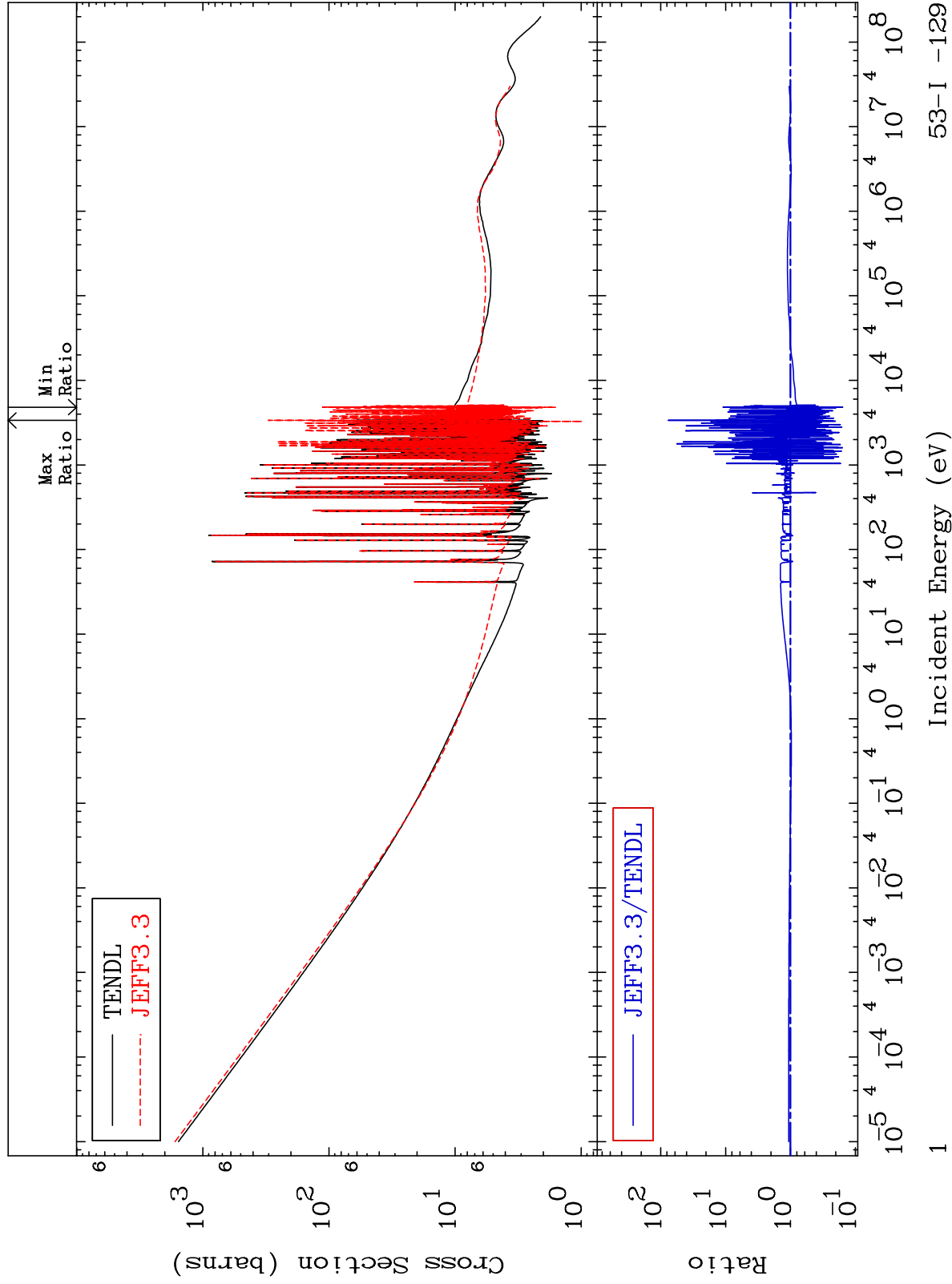
MAT 5331

Total

53-I -129

Cross Section

-84.42 To 7608. %



Incident Energy (eV)

53-I -129

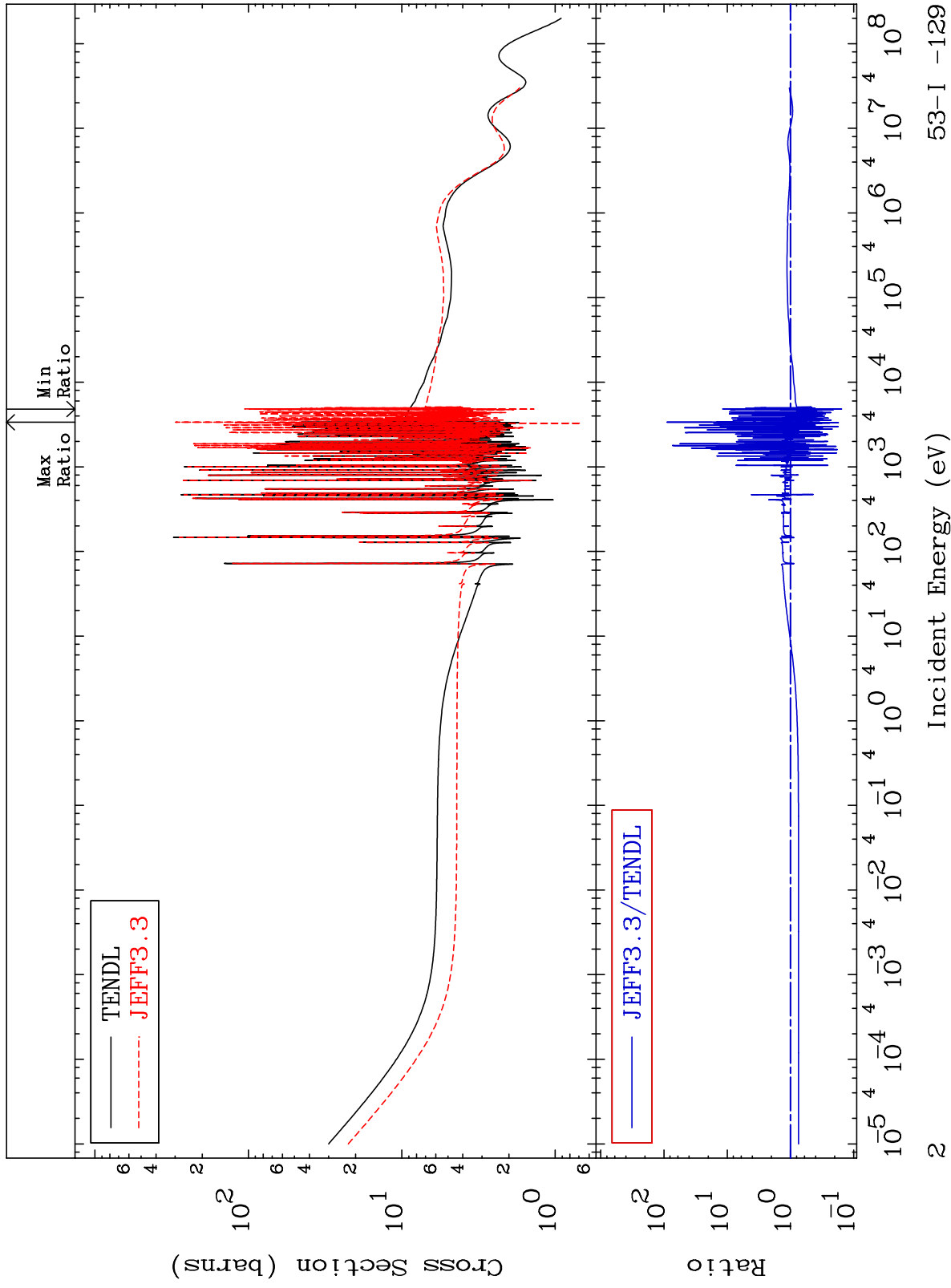
MAT 5331

Elastic

Cross Section

53-I -129

-84.54 To 8899. %

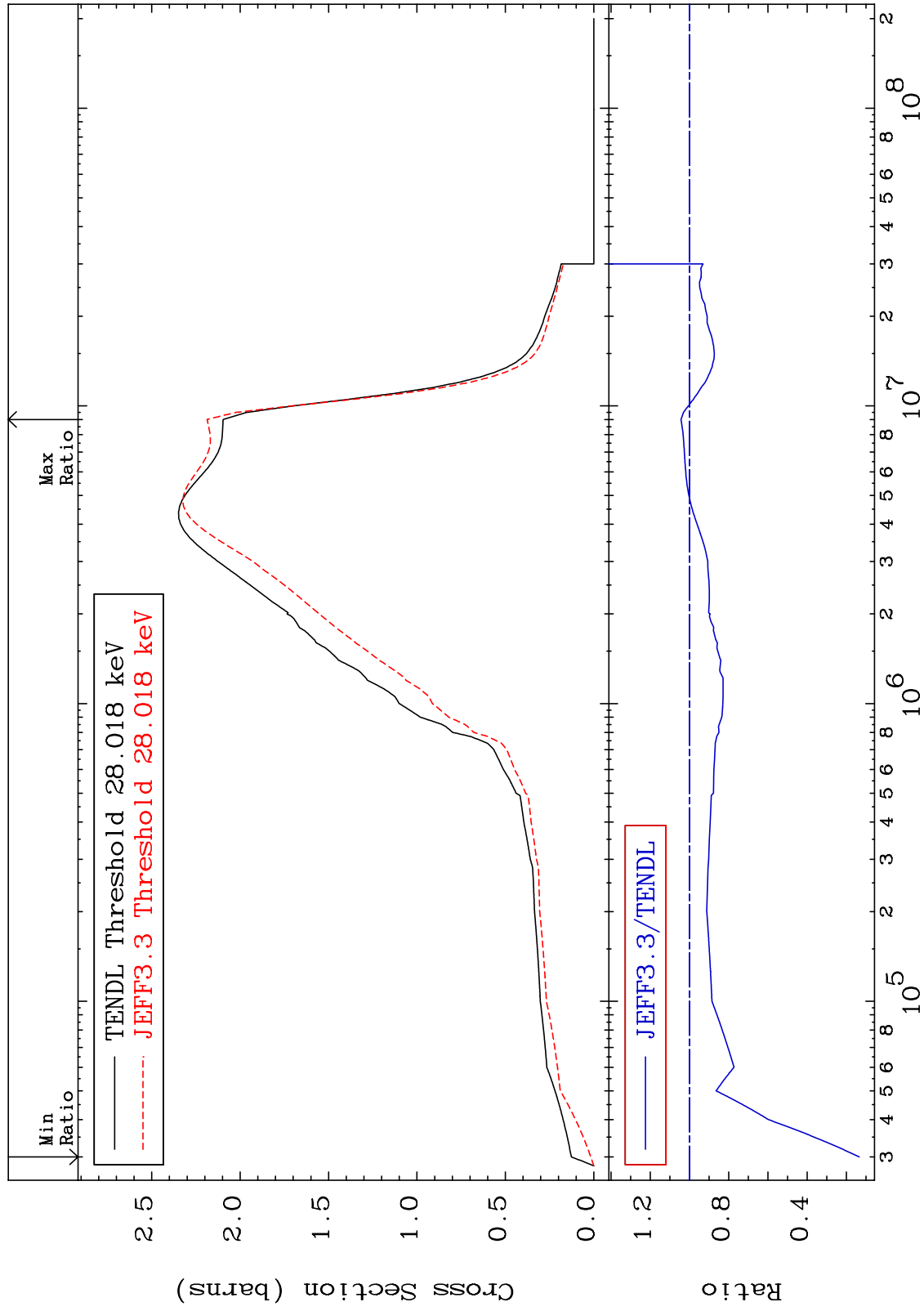


53-I -129

MAT 5331

Inelastic  
Cross Section

53-I -129  
-86.55 To 4.323 %



3

Incident Energy (eV)

53-I -129

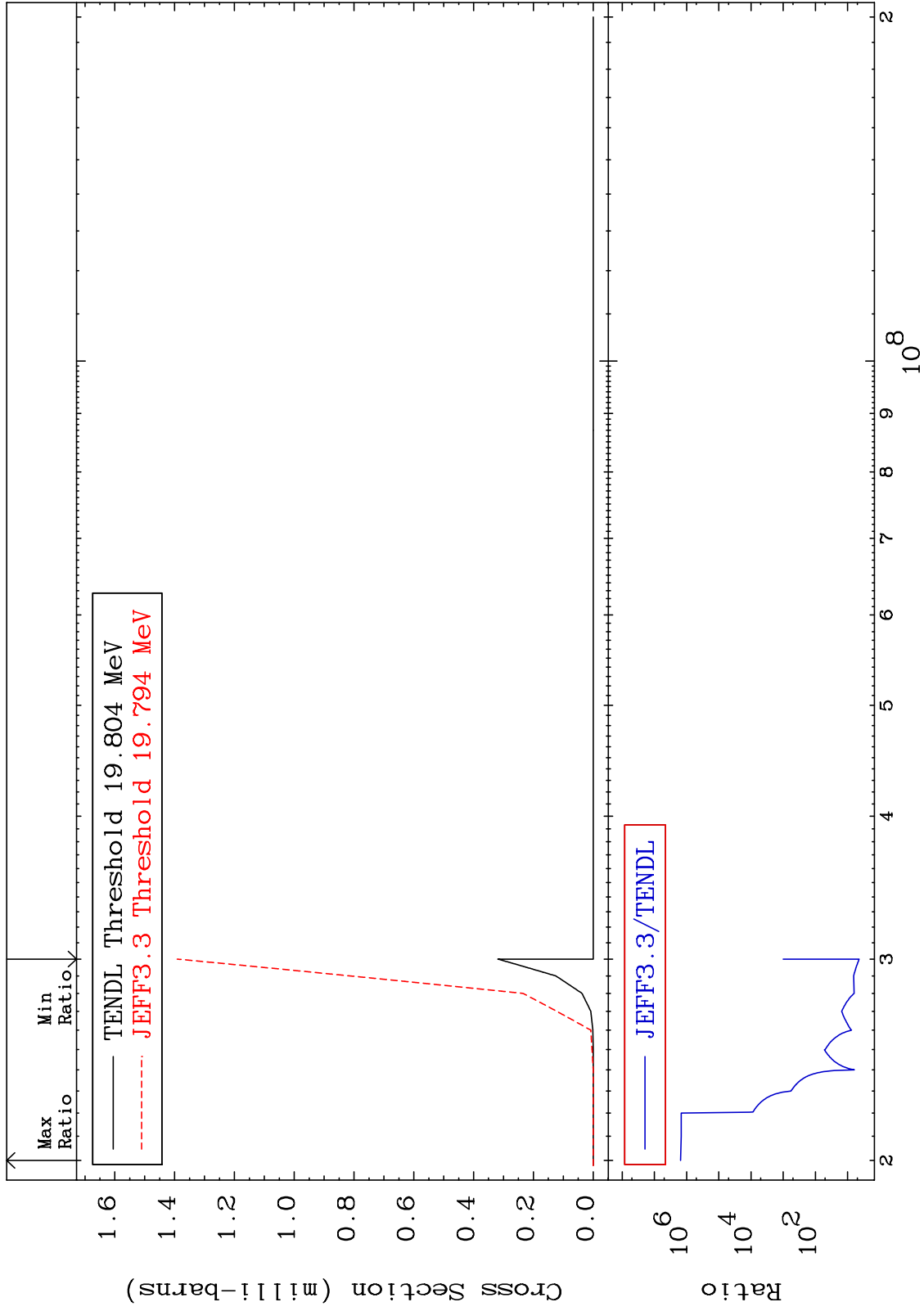
MAT 5331

(n,2n) d

53-I -129

Cross Section

336.6 To 9999. %



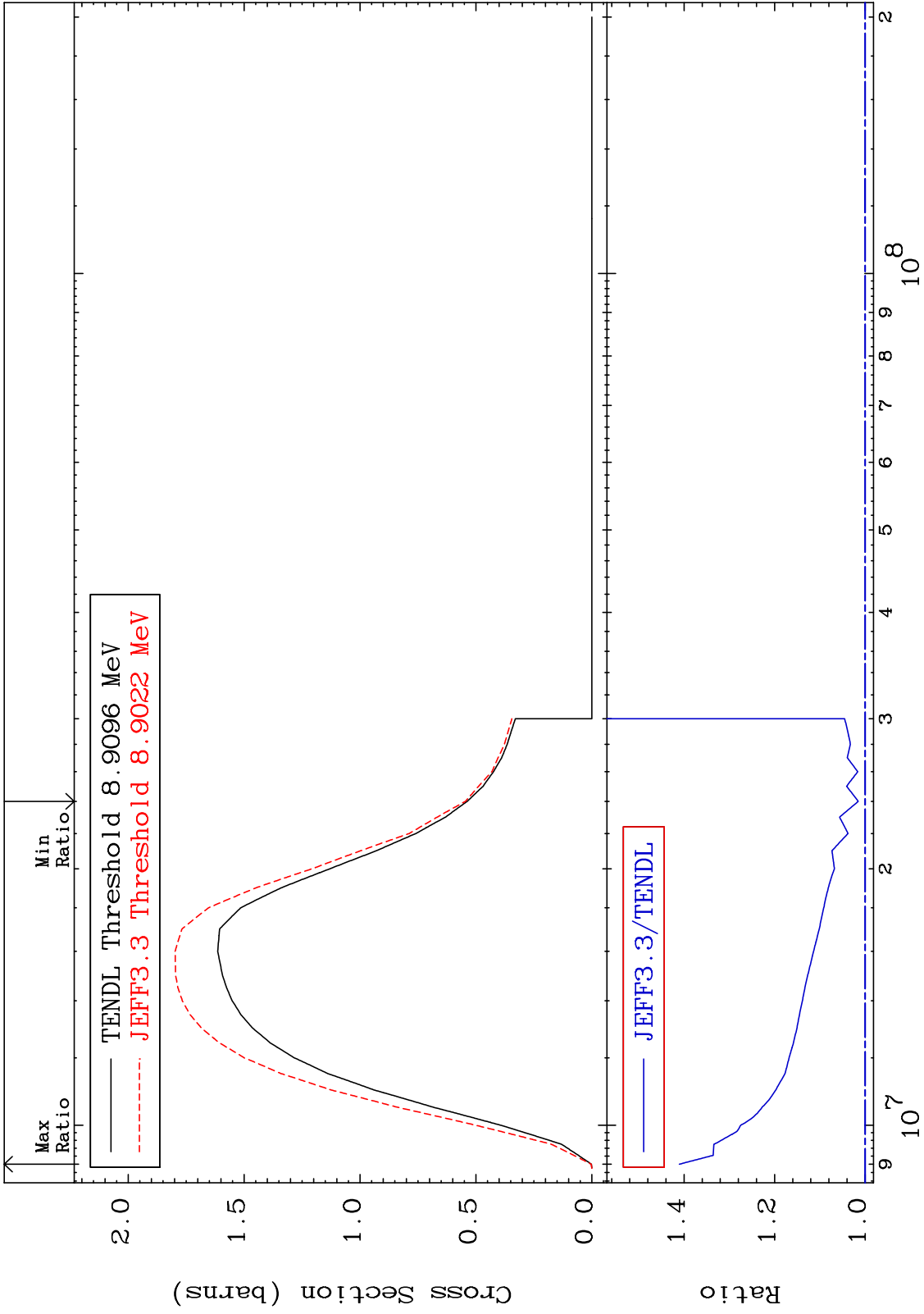
MAT 5331

(n,2n)

53-I -129

Cross Section

1.529 To 41.04 %



53-I -129

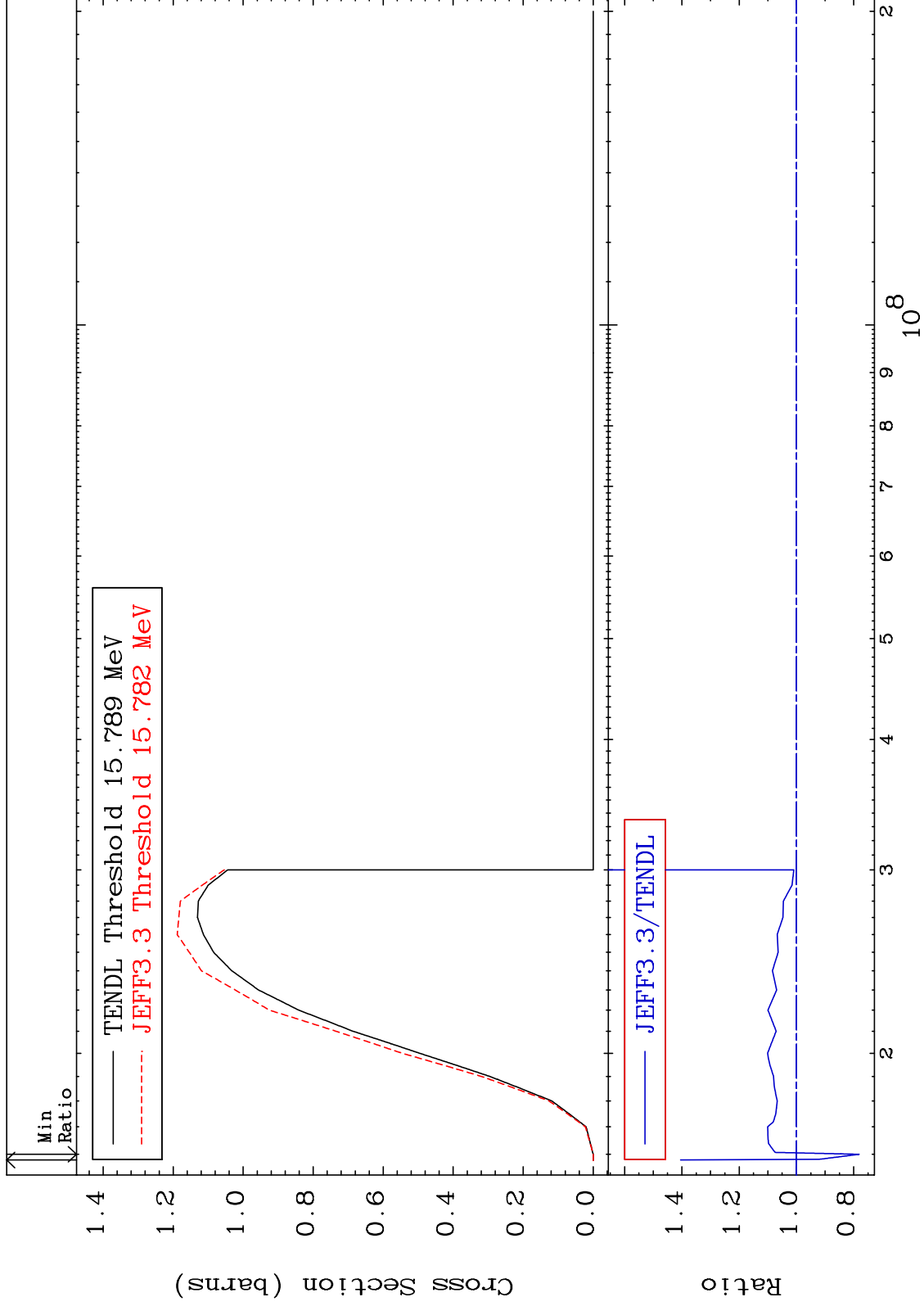
MAT 5331

(n,3n)

53-I -129

Cross Section

-21.89 To 40.44 %



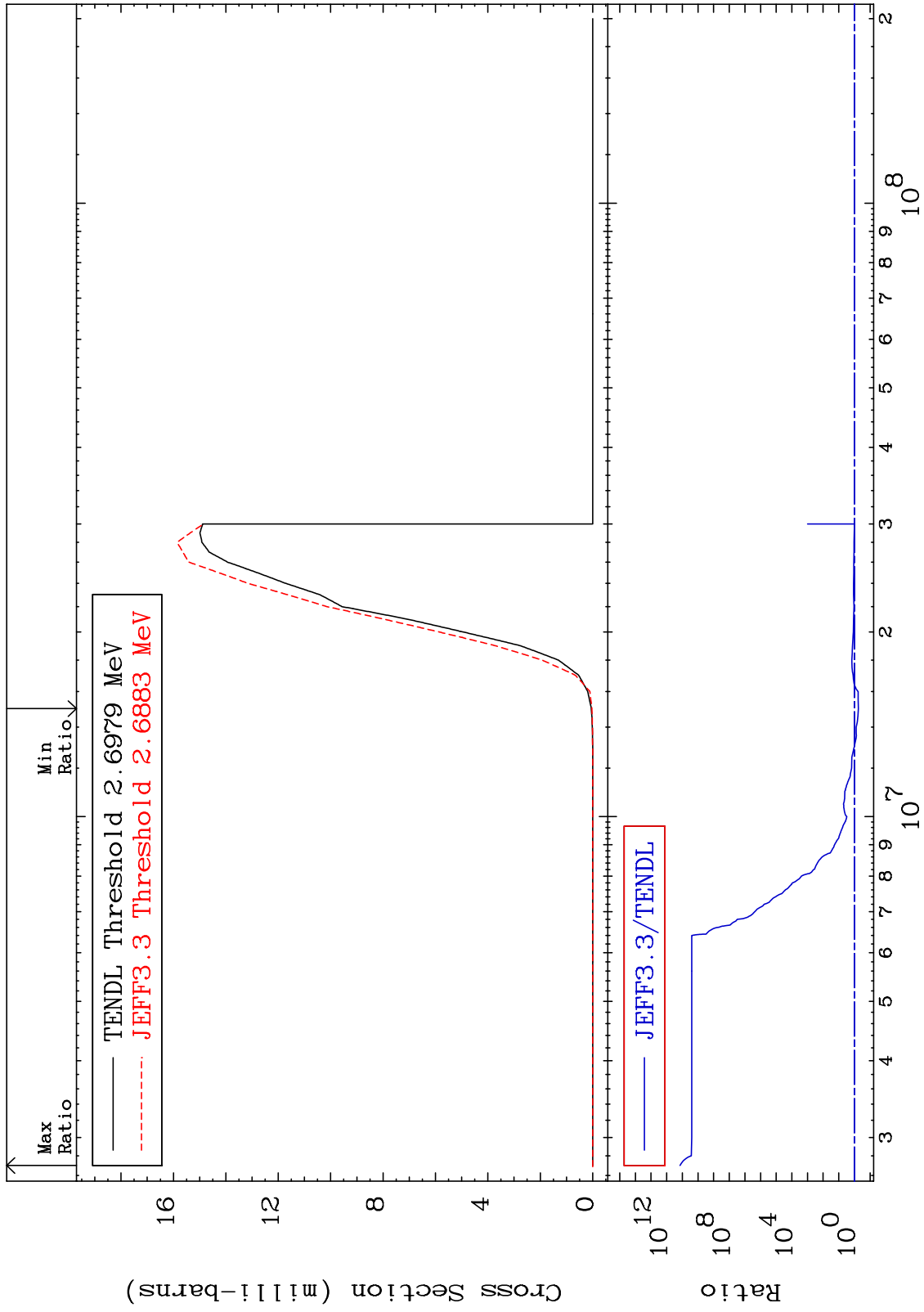
MAT 5331

(n,n')  $\alpha$

53-I -129

-44.31 To 9999. %

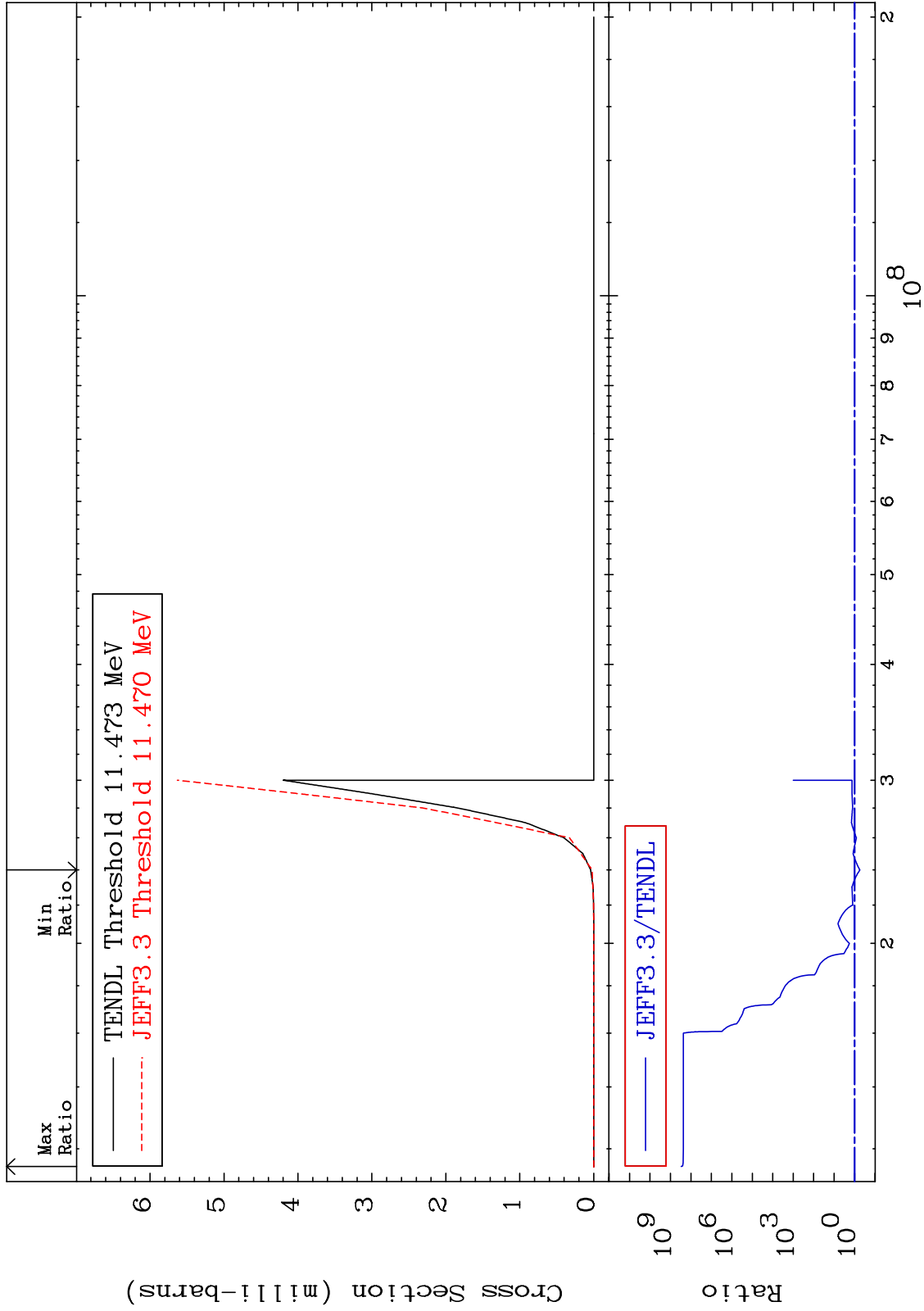
Cross Section





Cross Section

-45.21 To 9999. %



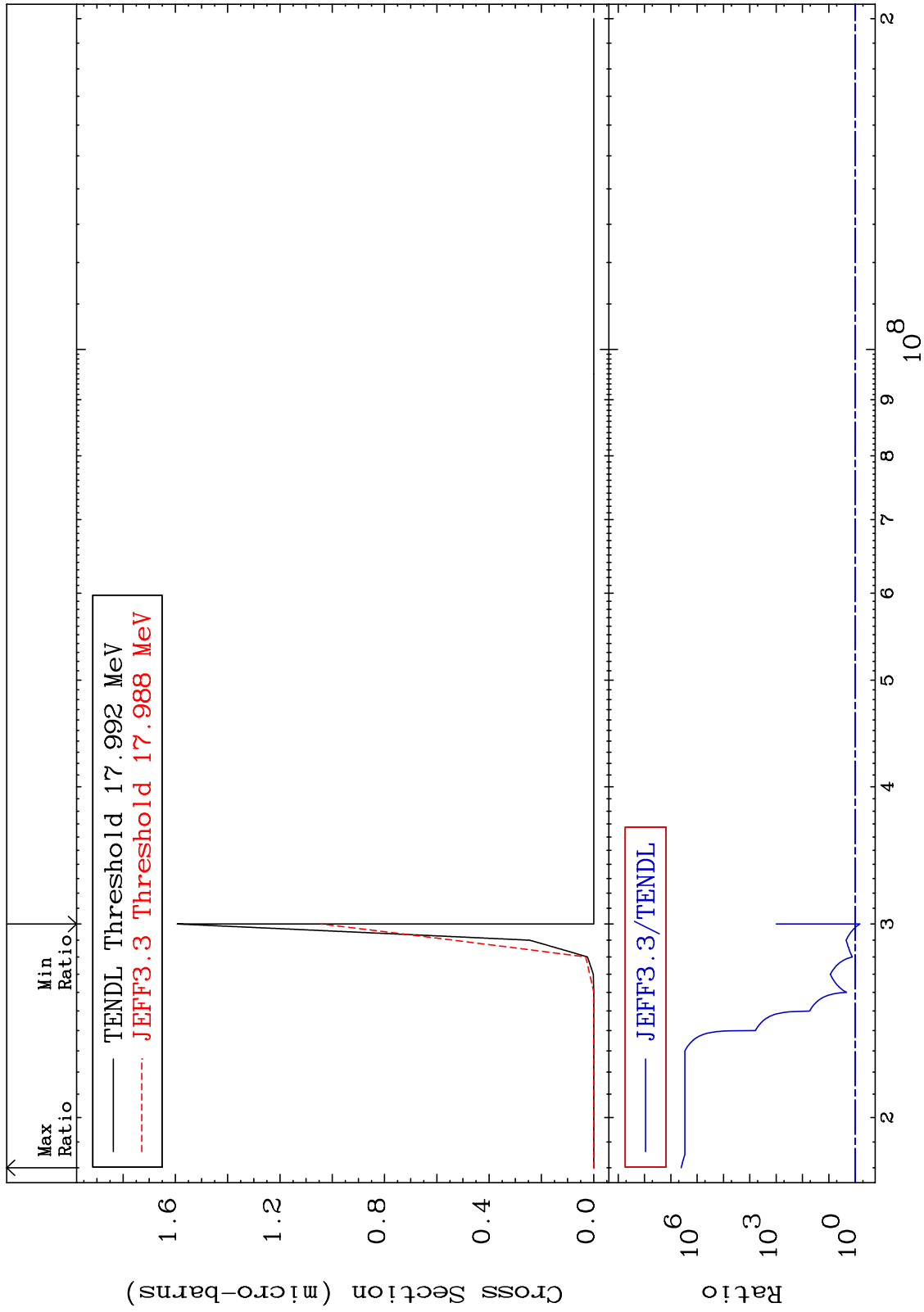
MAT 5331

(n,3n)  $\alpha$

53-I -129

Cross Section

-34.51 To 9999. %



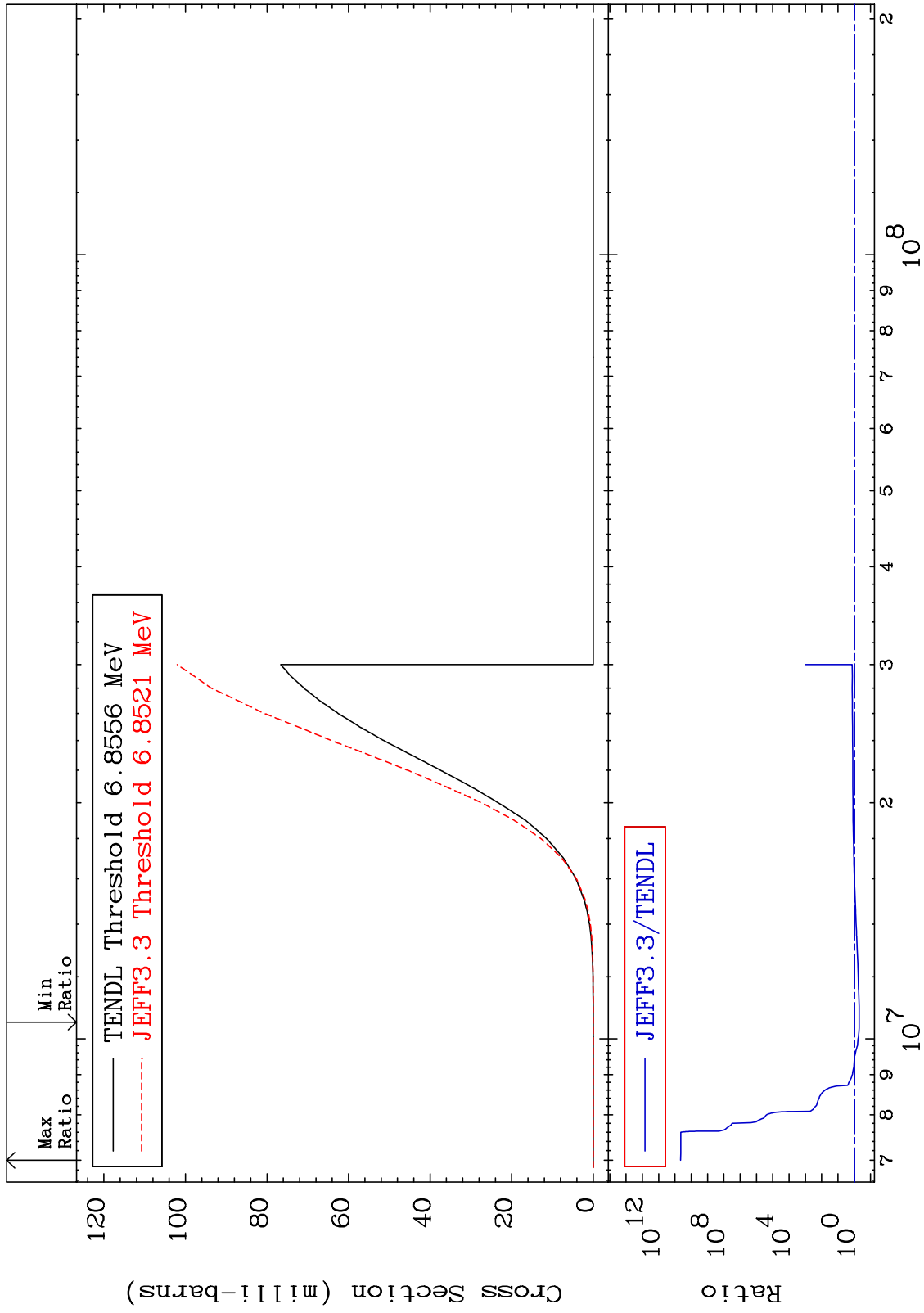
MAT 5331

(n,n') p

53-I -129

Cross Section

-50.36 To 9999. %



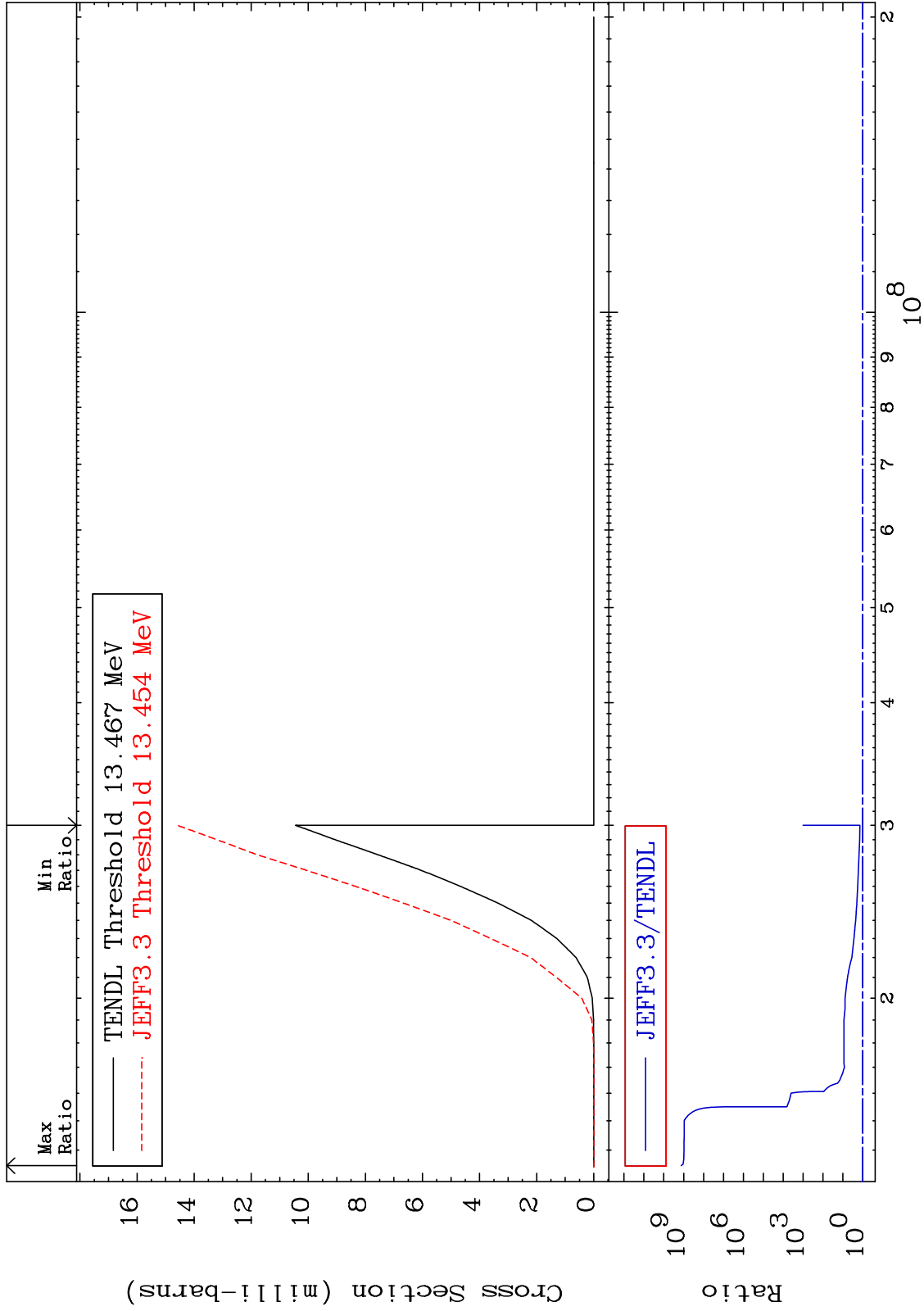
10

Incident Energy (eV)

53-I -129

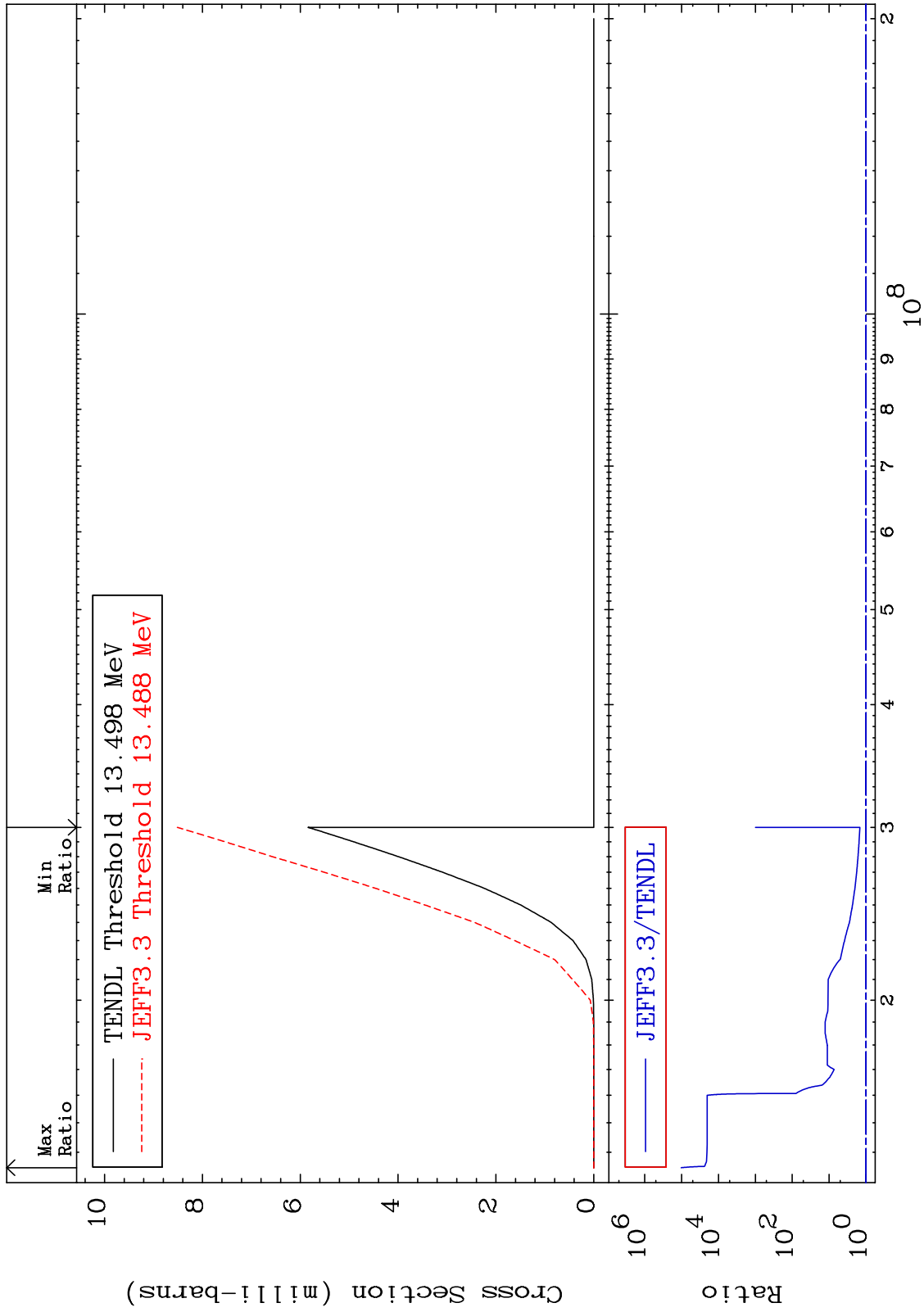
Cross Section

39.66 To 9999. %



Cross Section

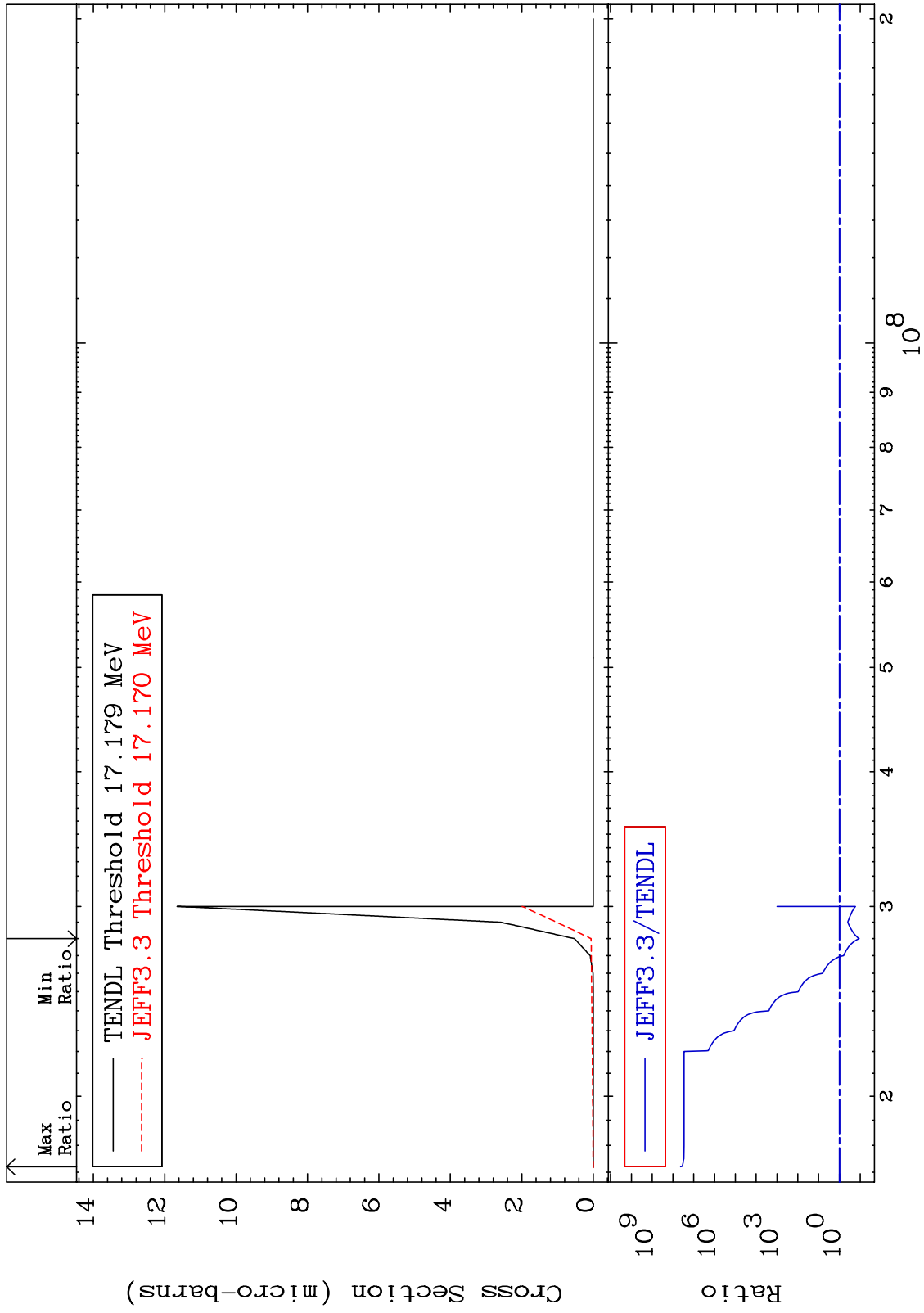
45.75 To 9999. %



MAT 5331

(n,n') He-3  
Cross Section

53-I -129  
-88.80 To 9999. %



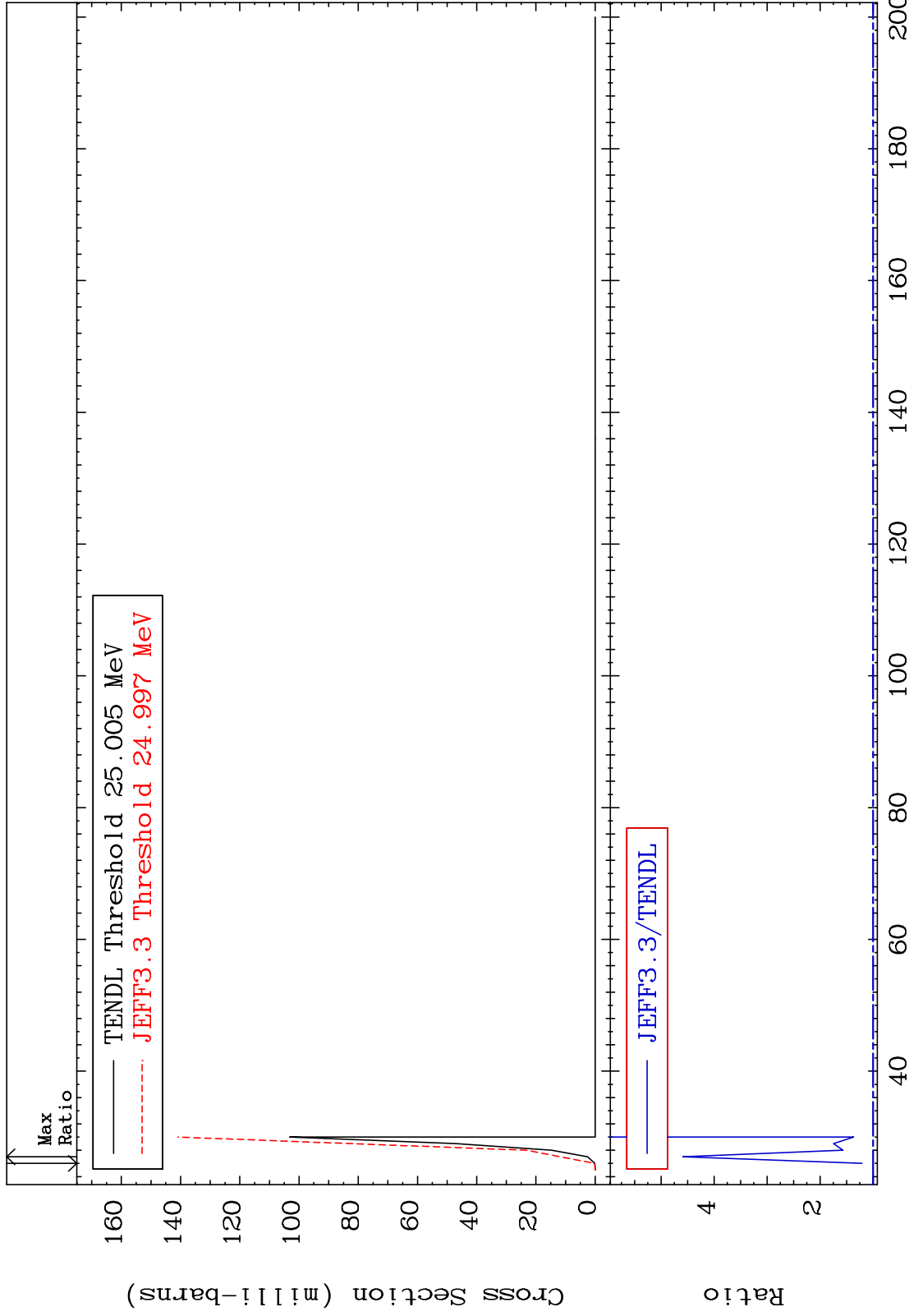
MAT 5331

(n, 4n)

53-I -129

Cross Section

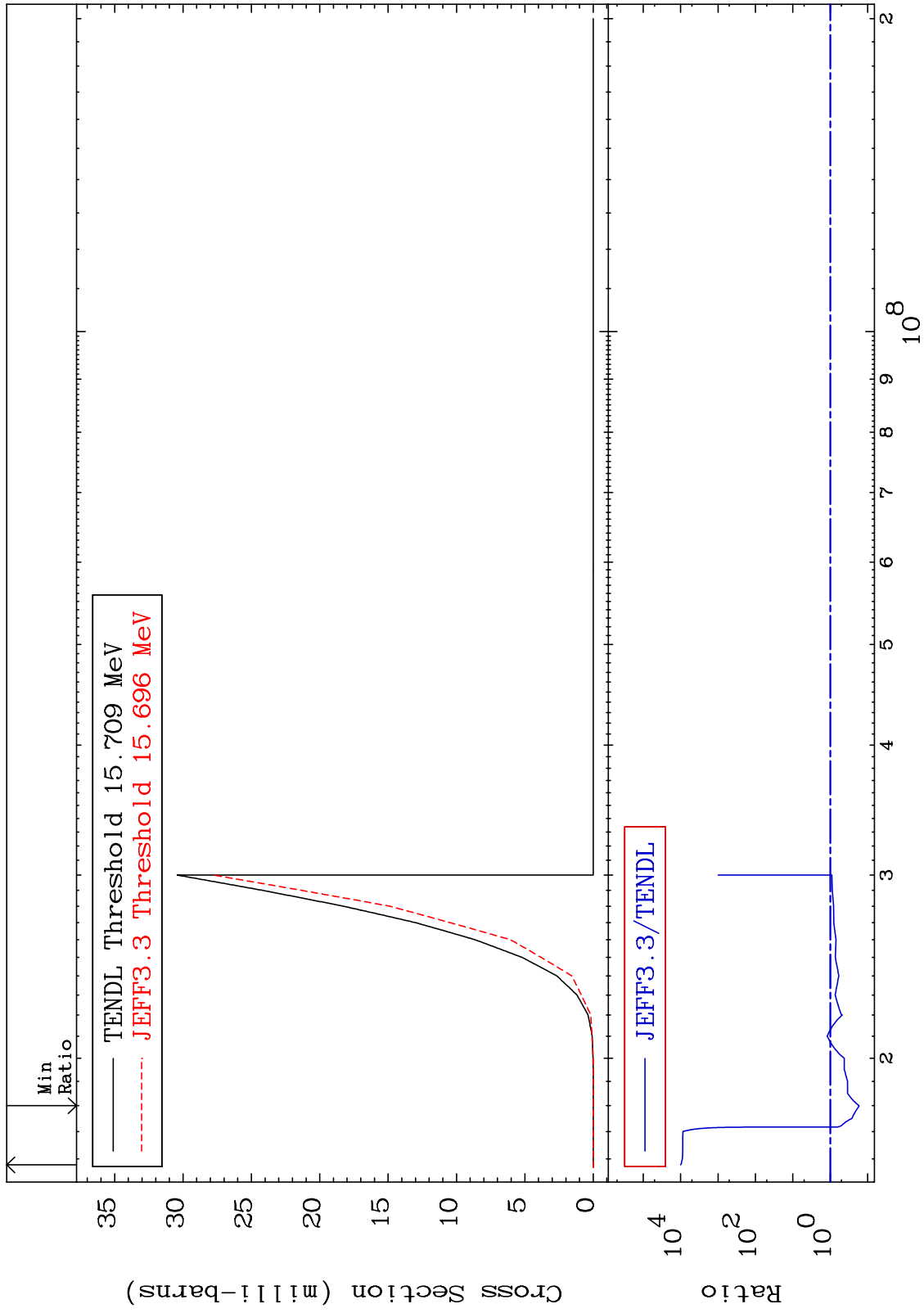
20.88 To 358.9 %



MAT 5331

(n,2n) p  
Cross Section

53-I -129  
-83.13 To 9999. %

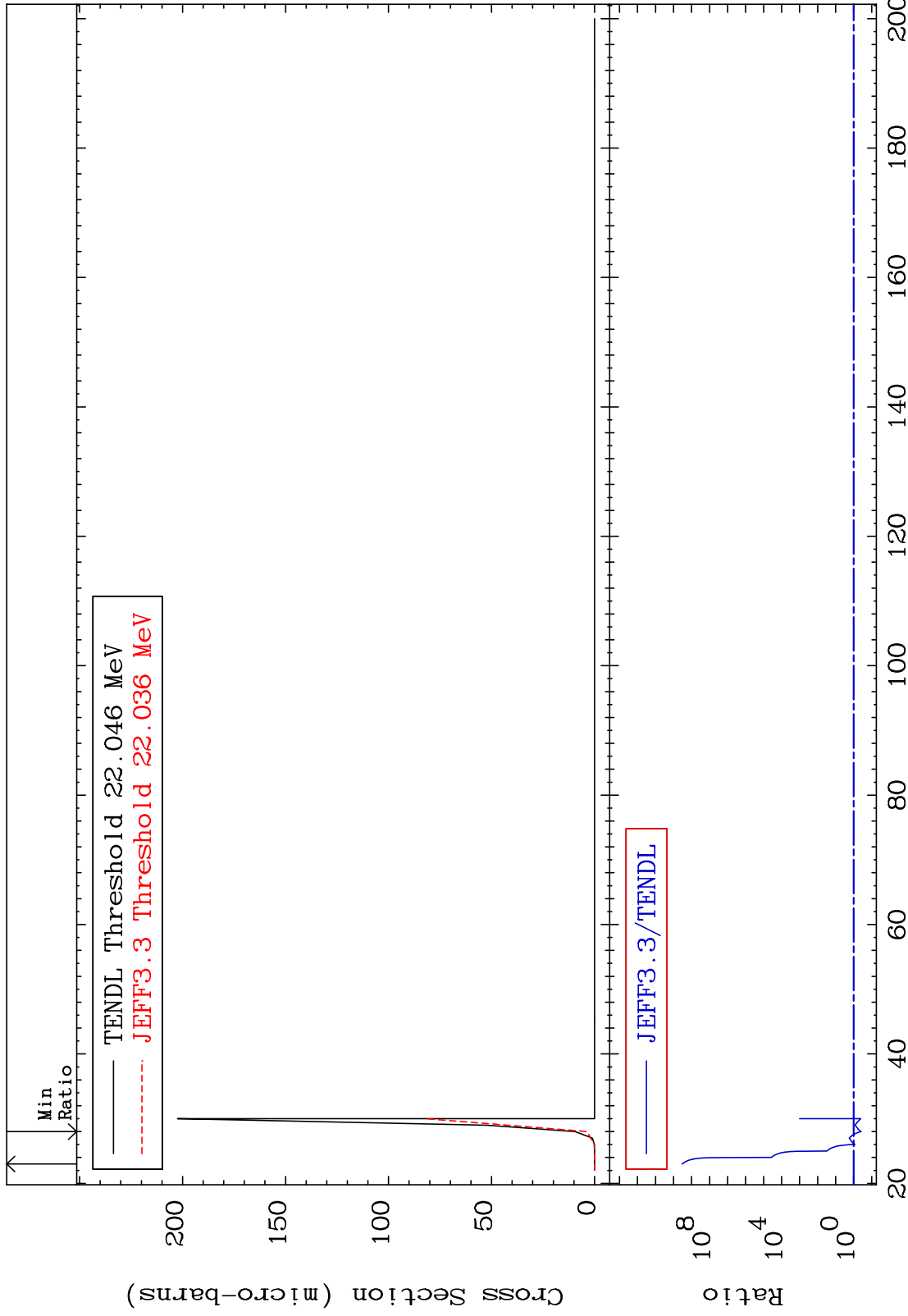


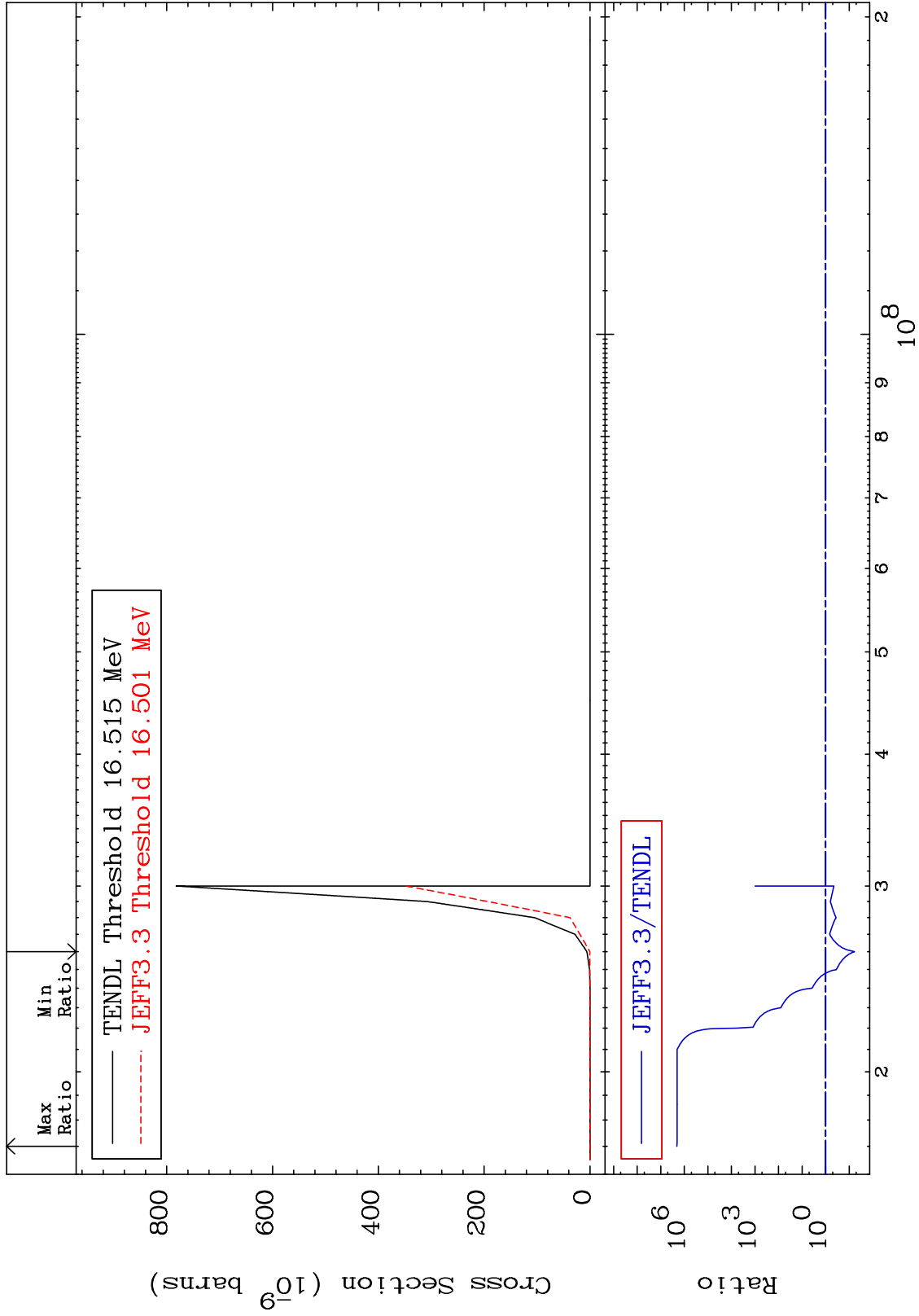


MAT 5331

(n,3n) p  
Cross Section

53-I -129  
-61.33 To 9999. %

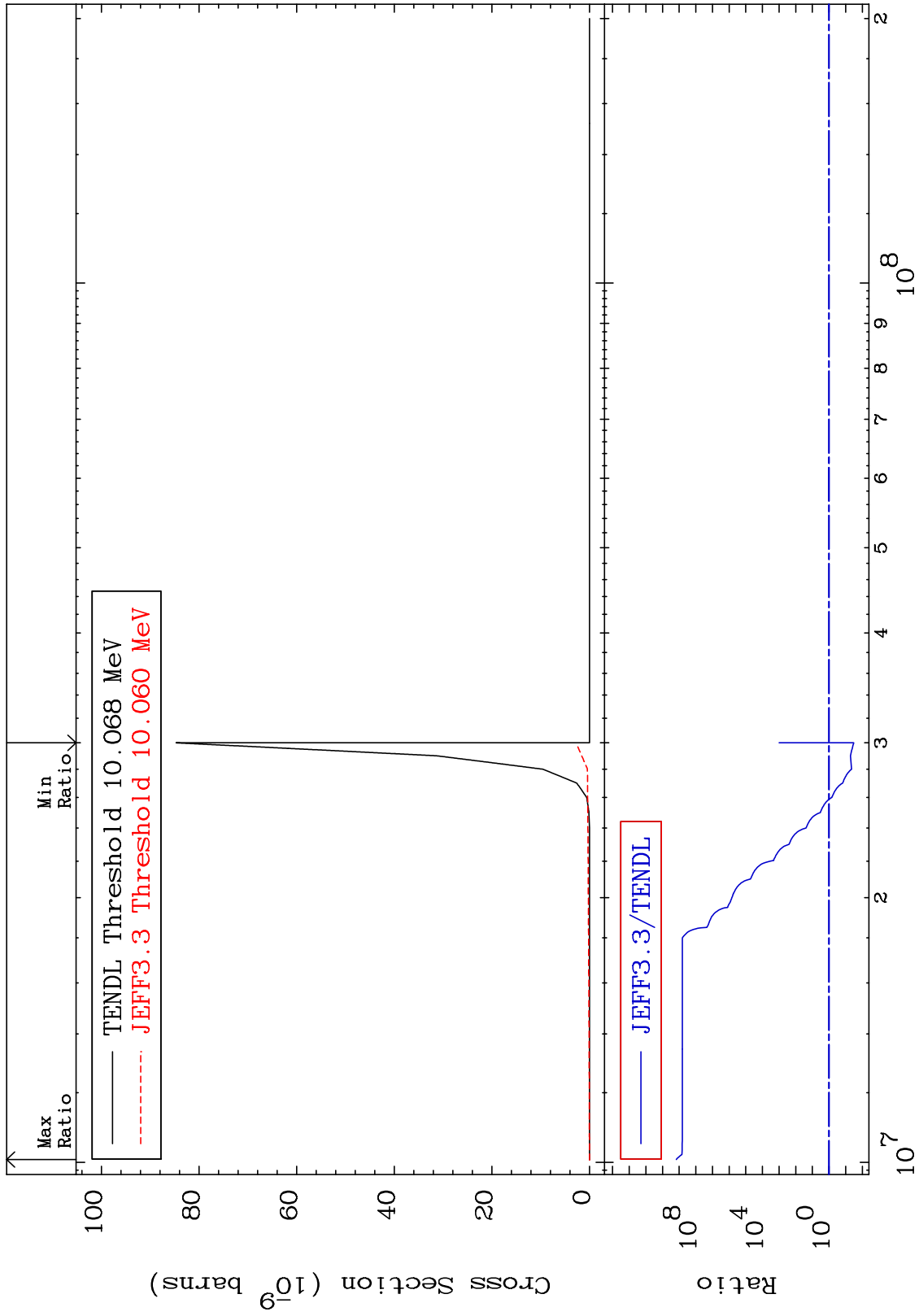




MAT 5331

(n,n') p  $\alpha$   
Cross Section

53-I -129  
-96.73 To 9999. %



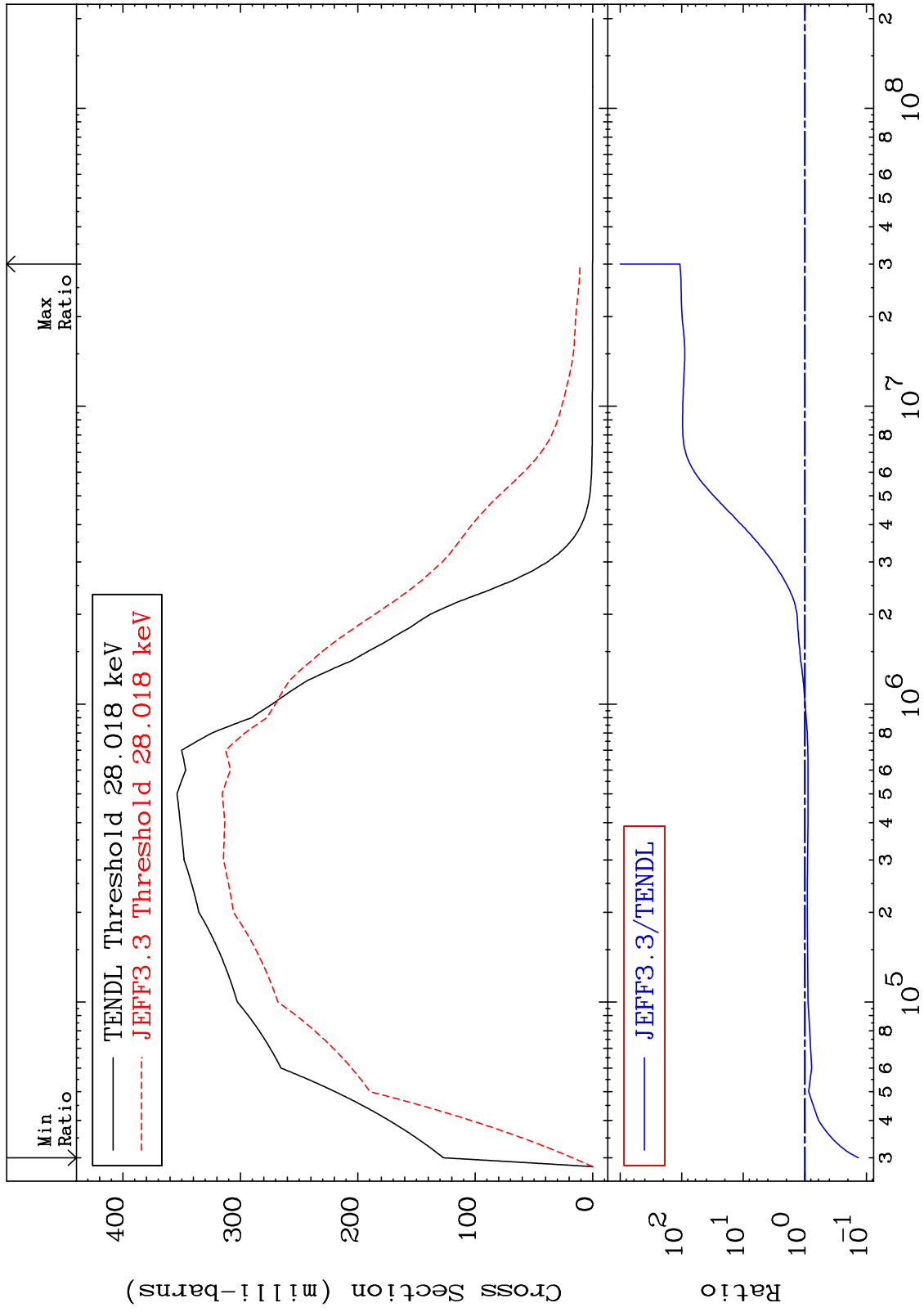
18

53-I -129

MAT 5331

MT= 51 (n,n') Level  
Cross Section

53-I -129  
-86.55 To 9999. %



19

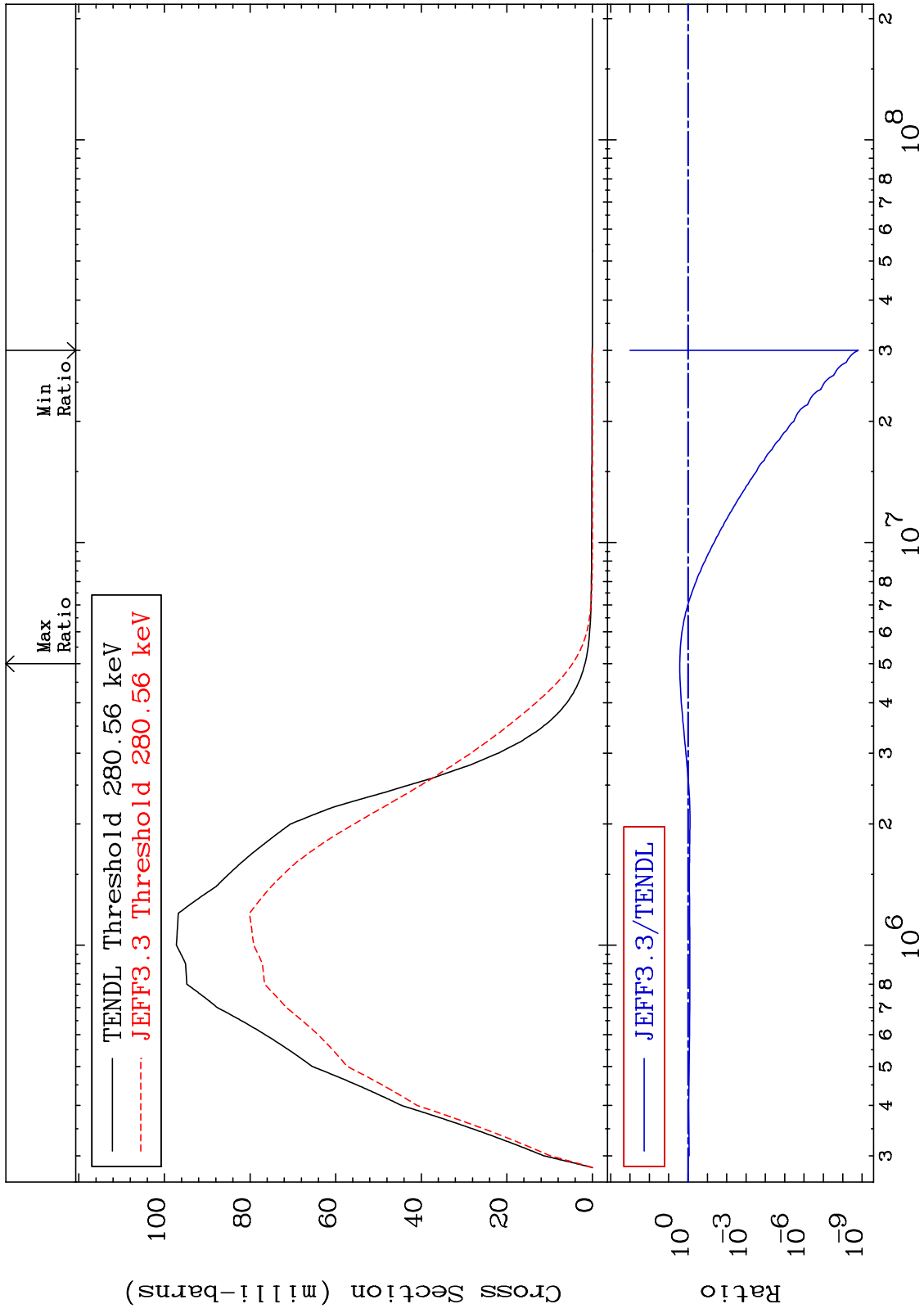
Incident Energy (eV)

53-I -129

MAT 5331

MT= 52 (n,n') Level  
Cross Section

53-I -129  
-100.0 To 166.2 %



20

Incident Energy (eV)

53-I -129

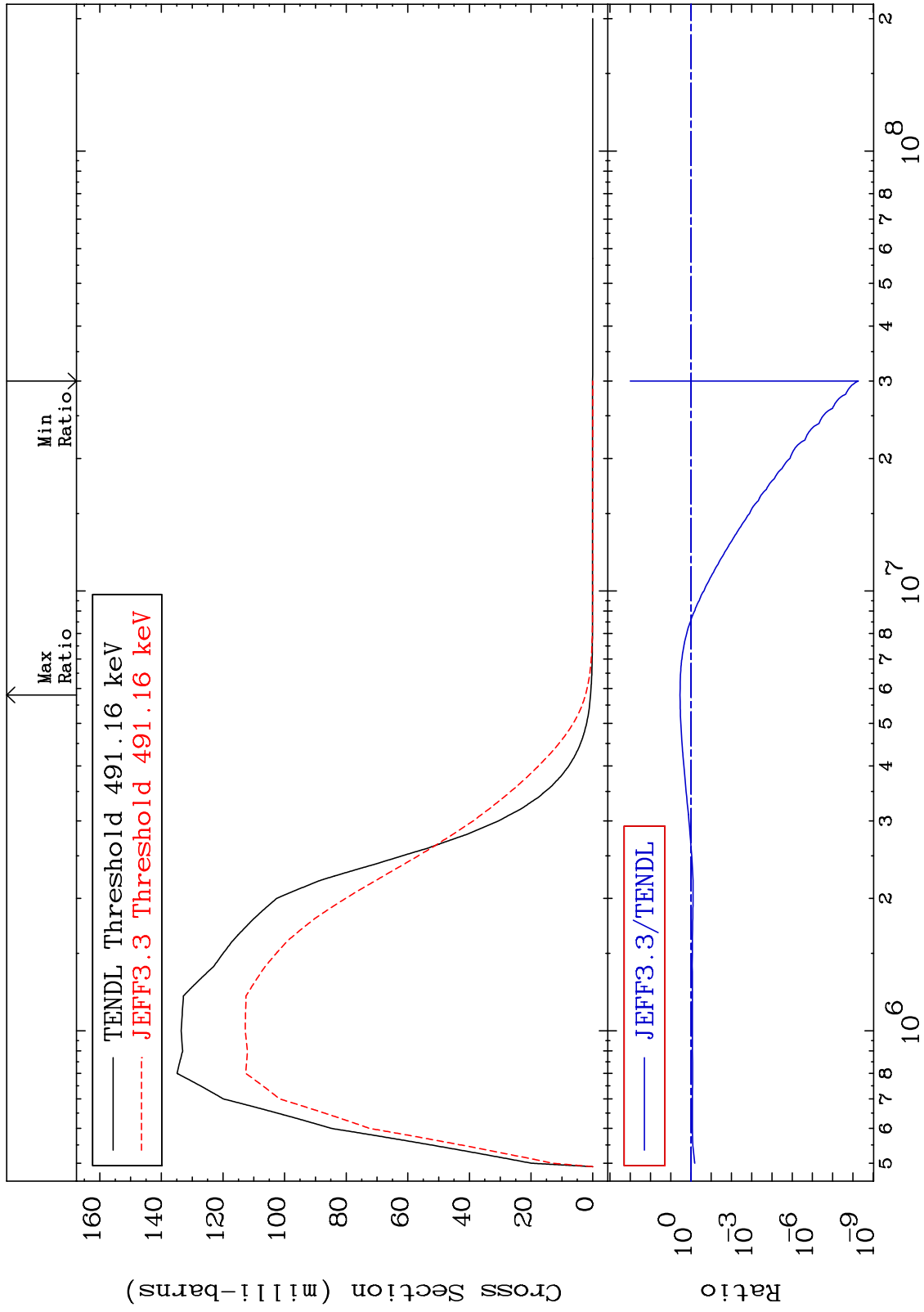
MAT 5331

MT= 53 (n,n') Level

53-I -129

-100.0 To 247.5 %

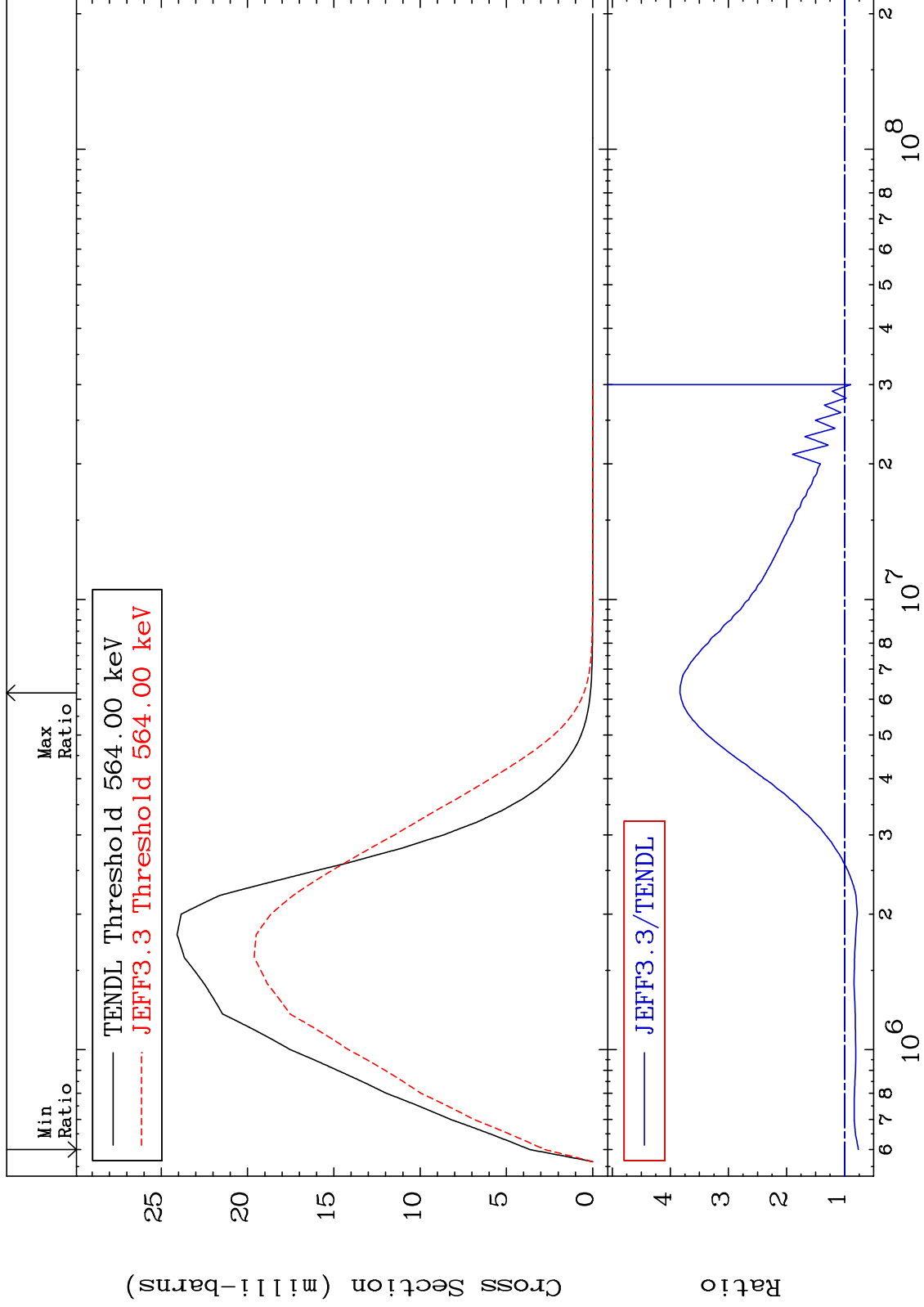
Cross Section



MAT 5331

MT= 54 (n,n') Level  
Cross Section

53-I -129  
-23.73 To 283.4 %



22

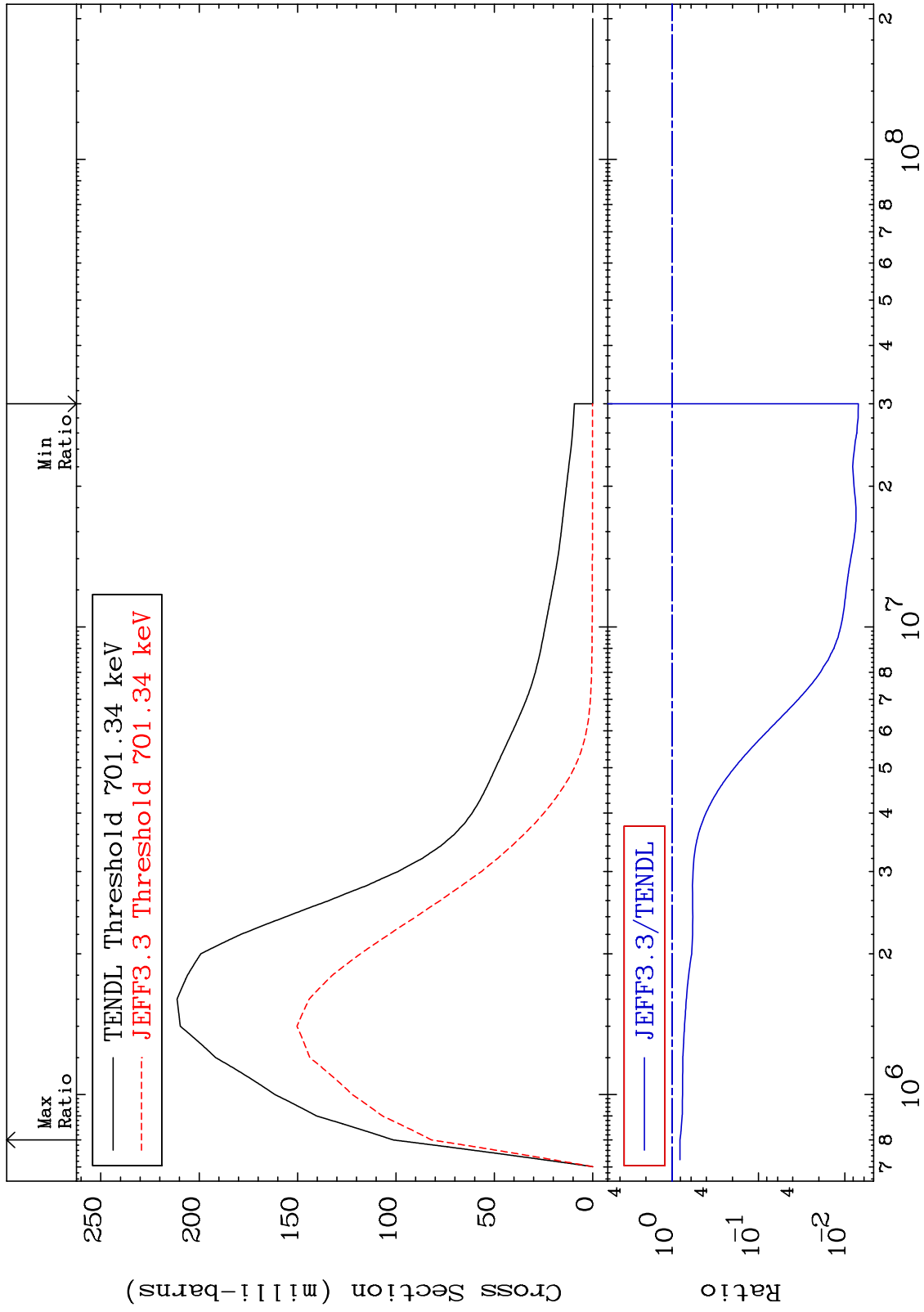
Incident Energy (eV)

53-I -129

MAT 5331

MT= 55 (n,n') Level  
Cross Section

53-I -129  
-99.30 To -19.21%



23

Incident Energy (eV)

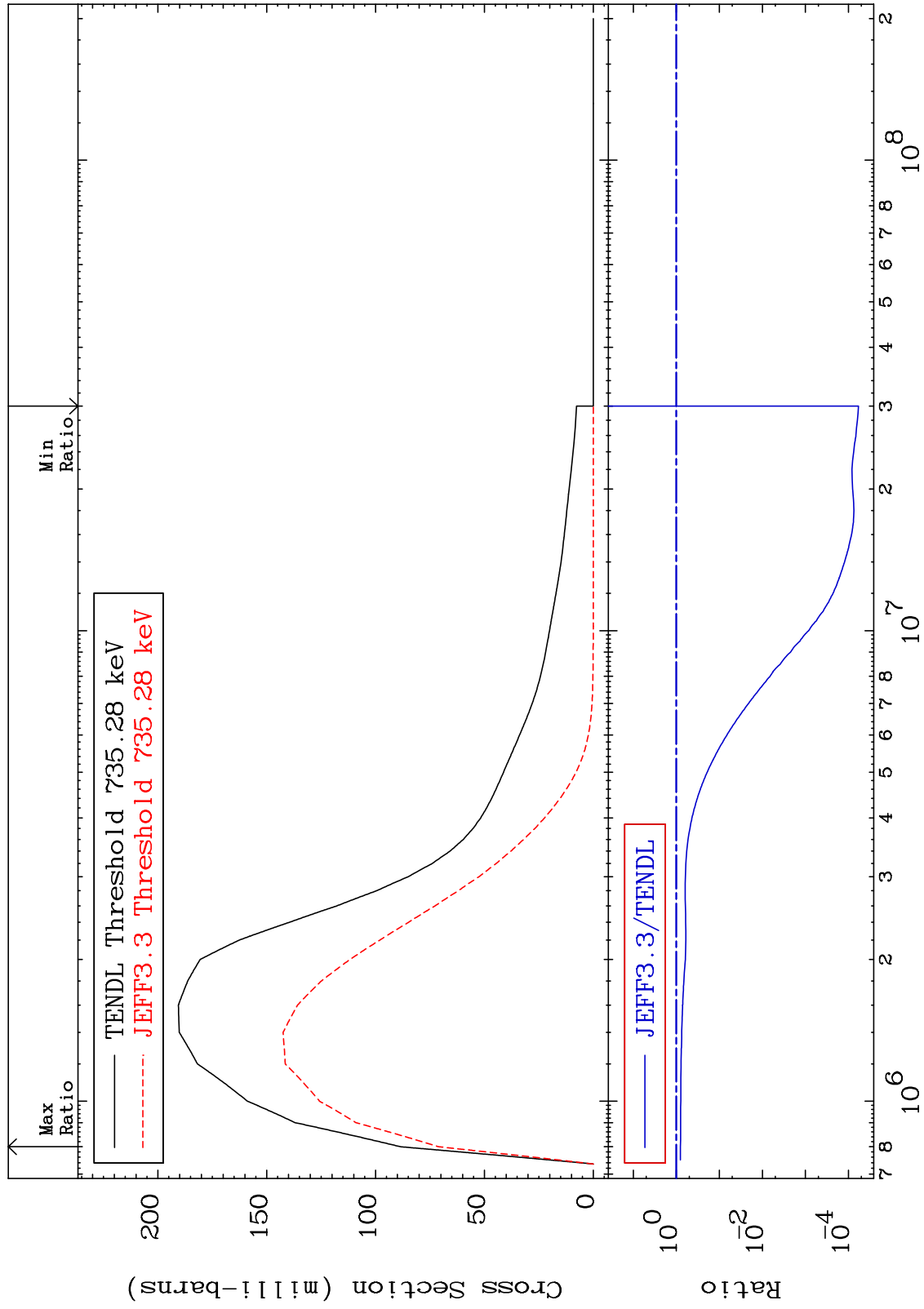
53-I -129



MAT 5331

MT= 56 (n,n') Level  
Cross Section

53-I -129  
-99.99 To -19.74%



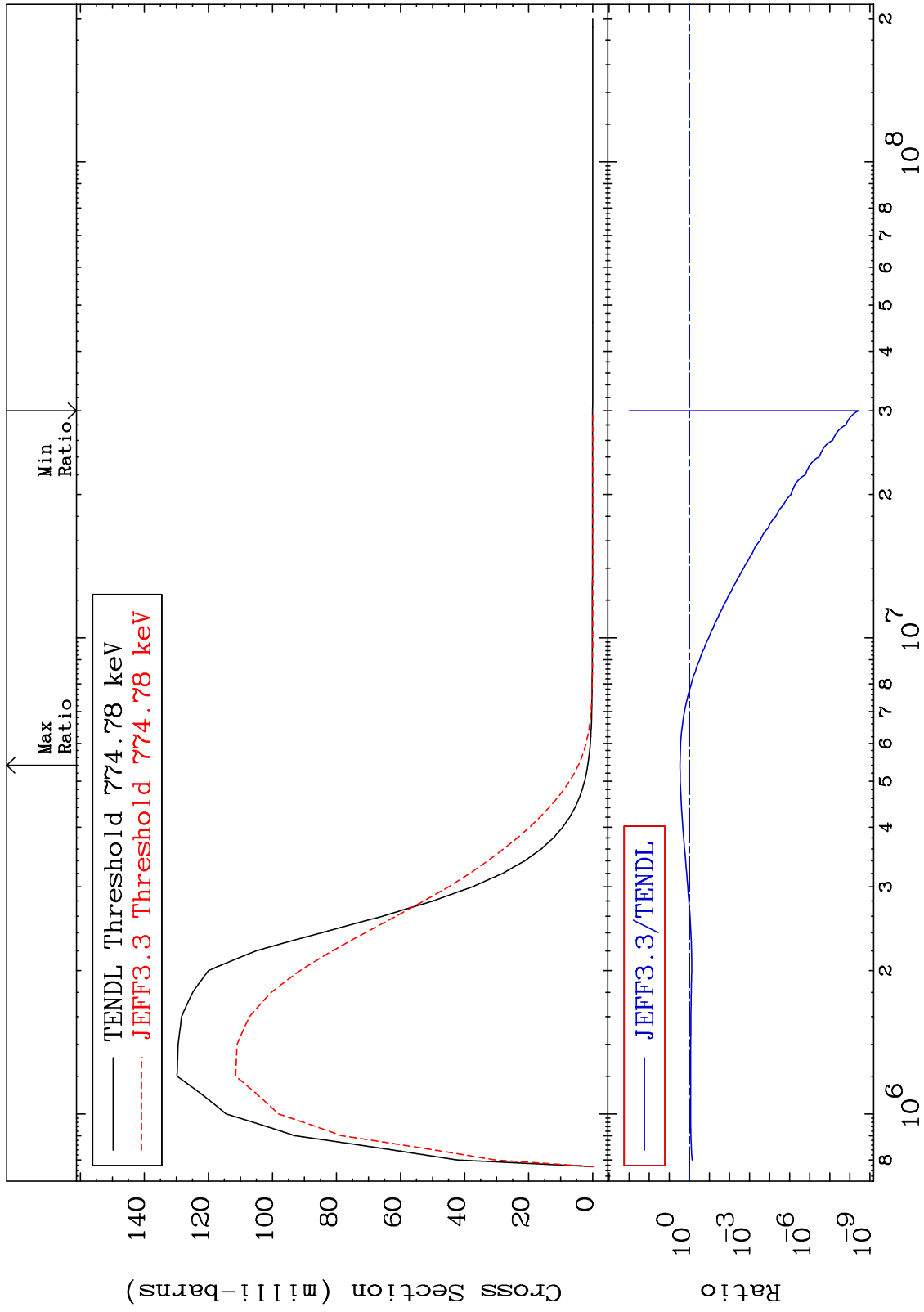
24

53-I -129

MAT 5331

MT= 57 (n,n') Level  
Cross Section

53-I -129  
-100.0 To 190.9 %



25

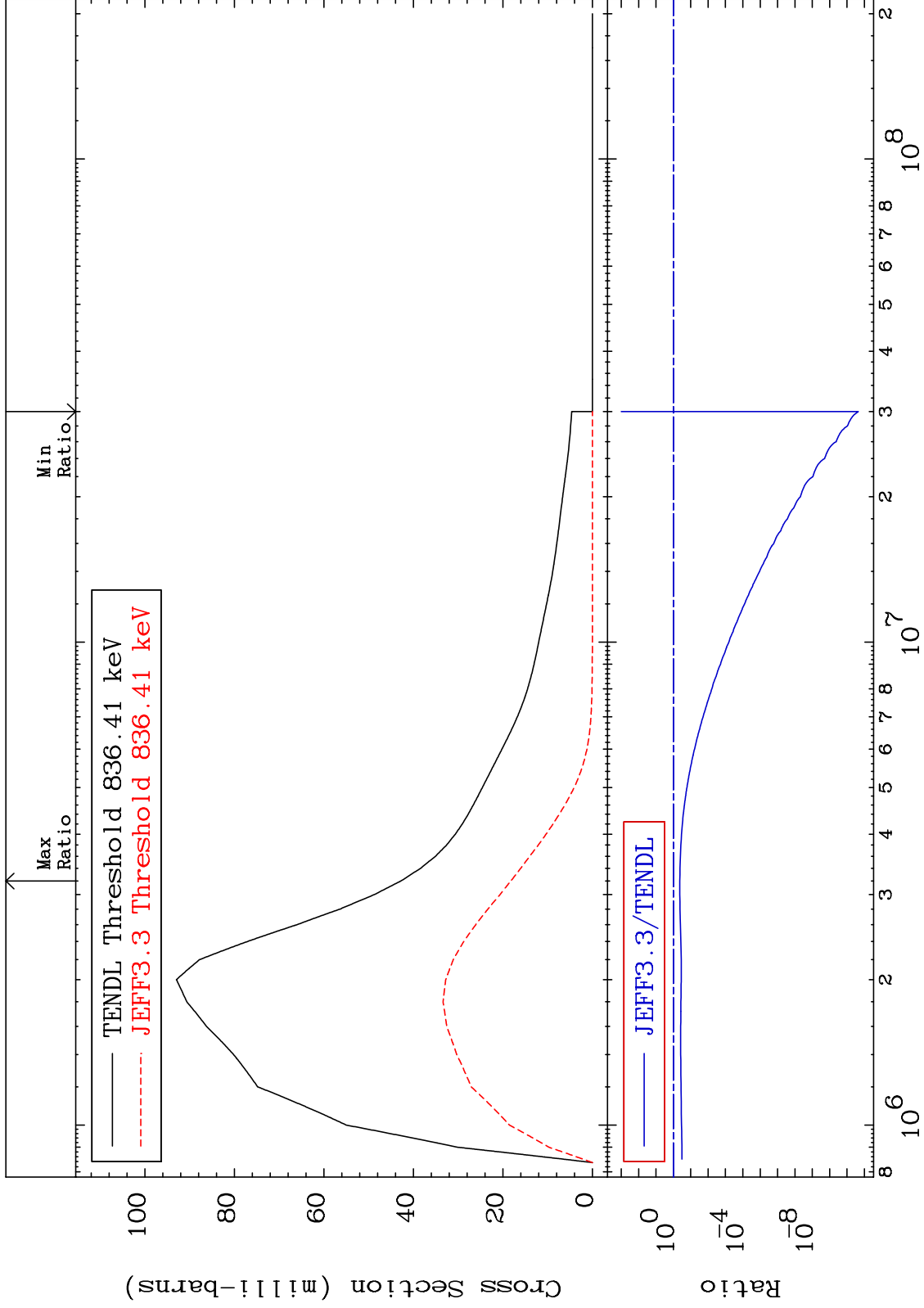
Incident Energy (eV)

53-I -129

MAT 5331

MT= 58 (n,n') Level  
Cross Section

53-I -129  
-100.0 To -57.44%



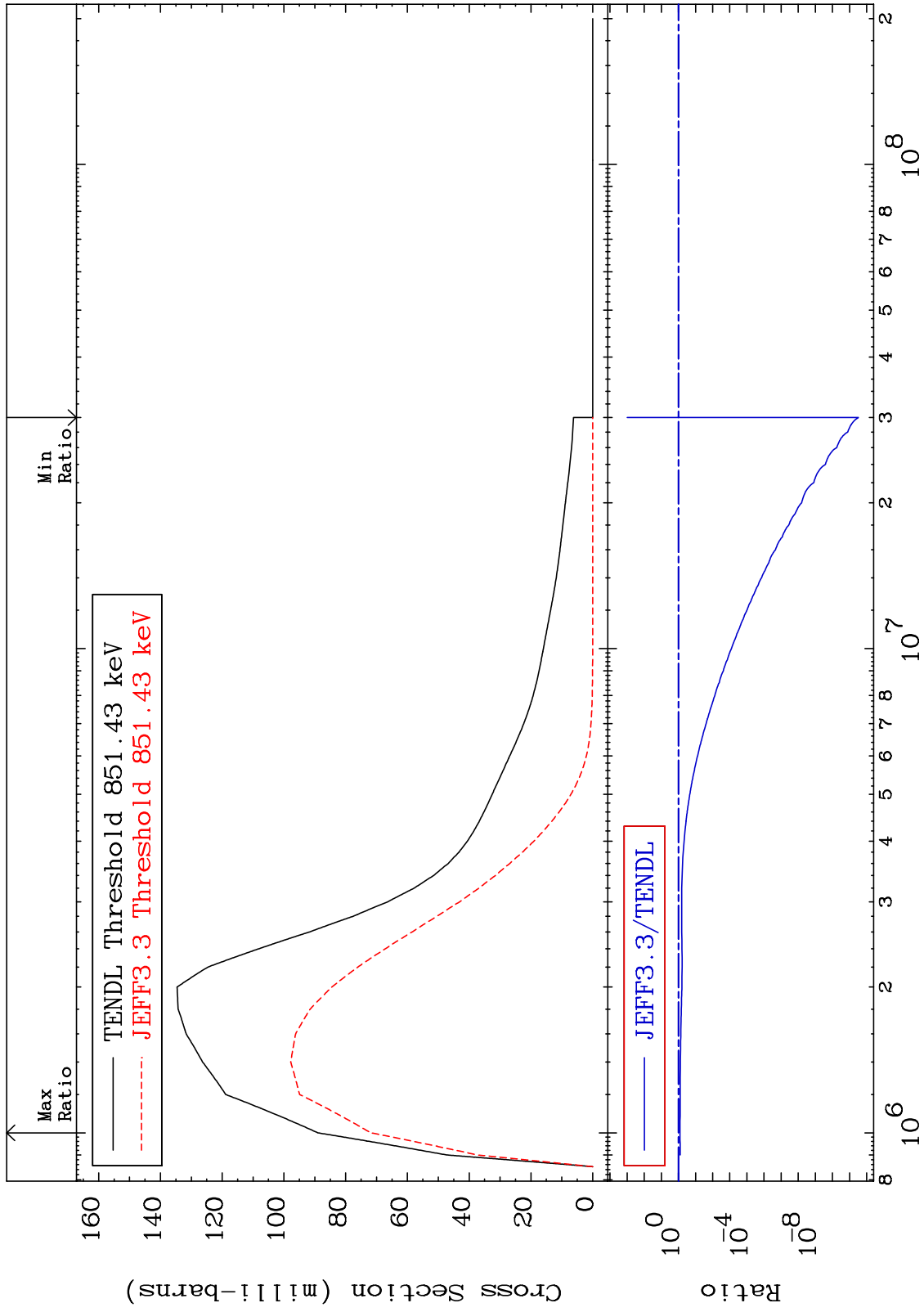
26

53-I -129

MAT 5331

MT= 59 (n,n') Level  
Cross Section

53-I -129  
-100.0 To -19.24%



27

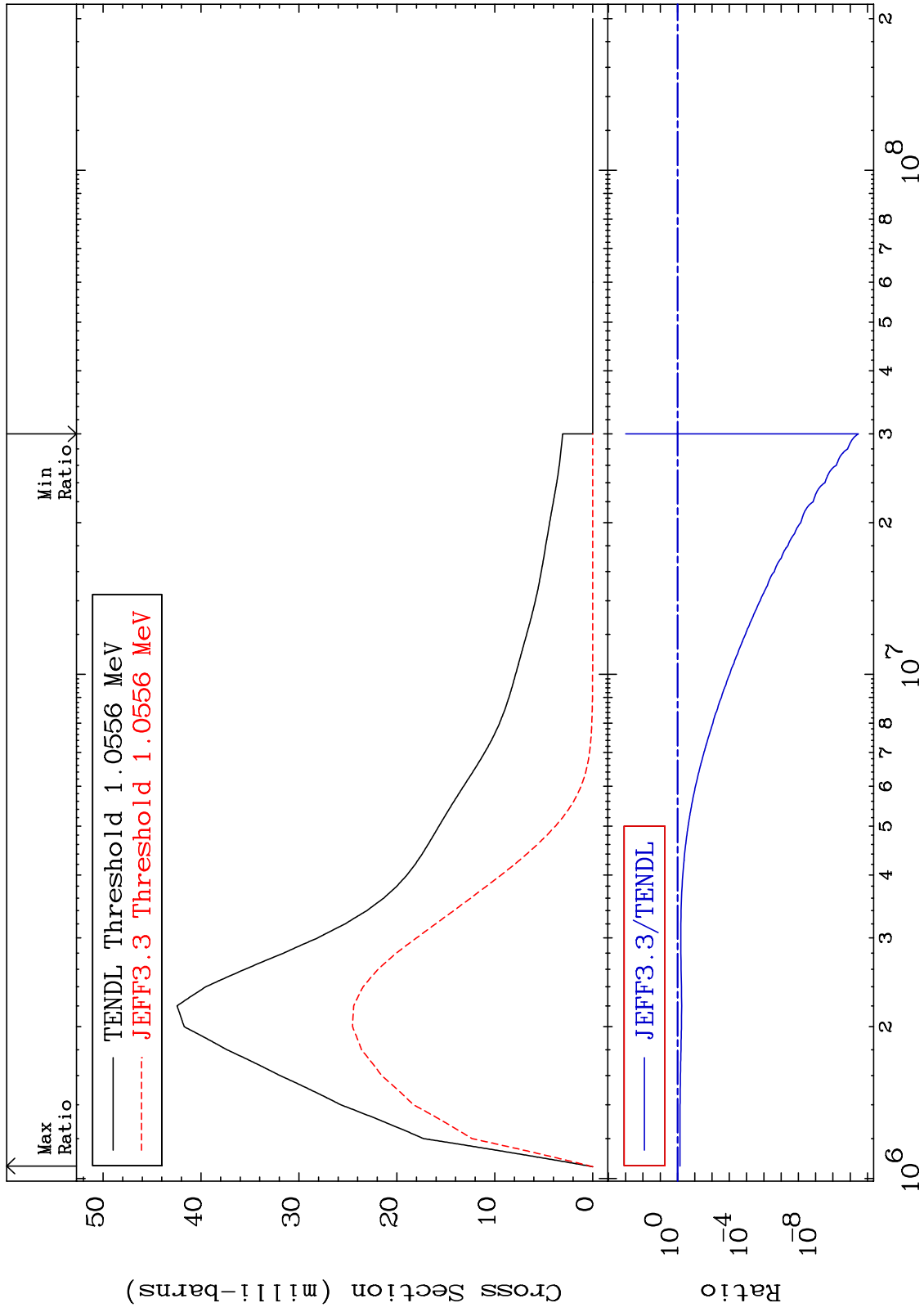
Incident Energy (eV)

53-I -129

MAT 5331

MT= 60 (n,n') Level  
Cross Section

53-I -129  
-100.0 To -28.60%



28

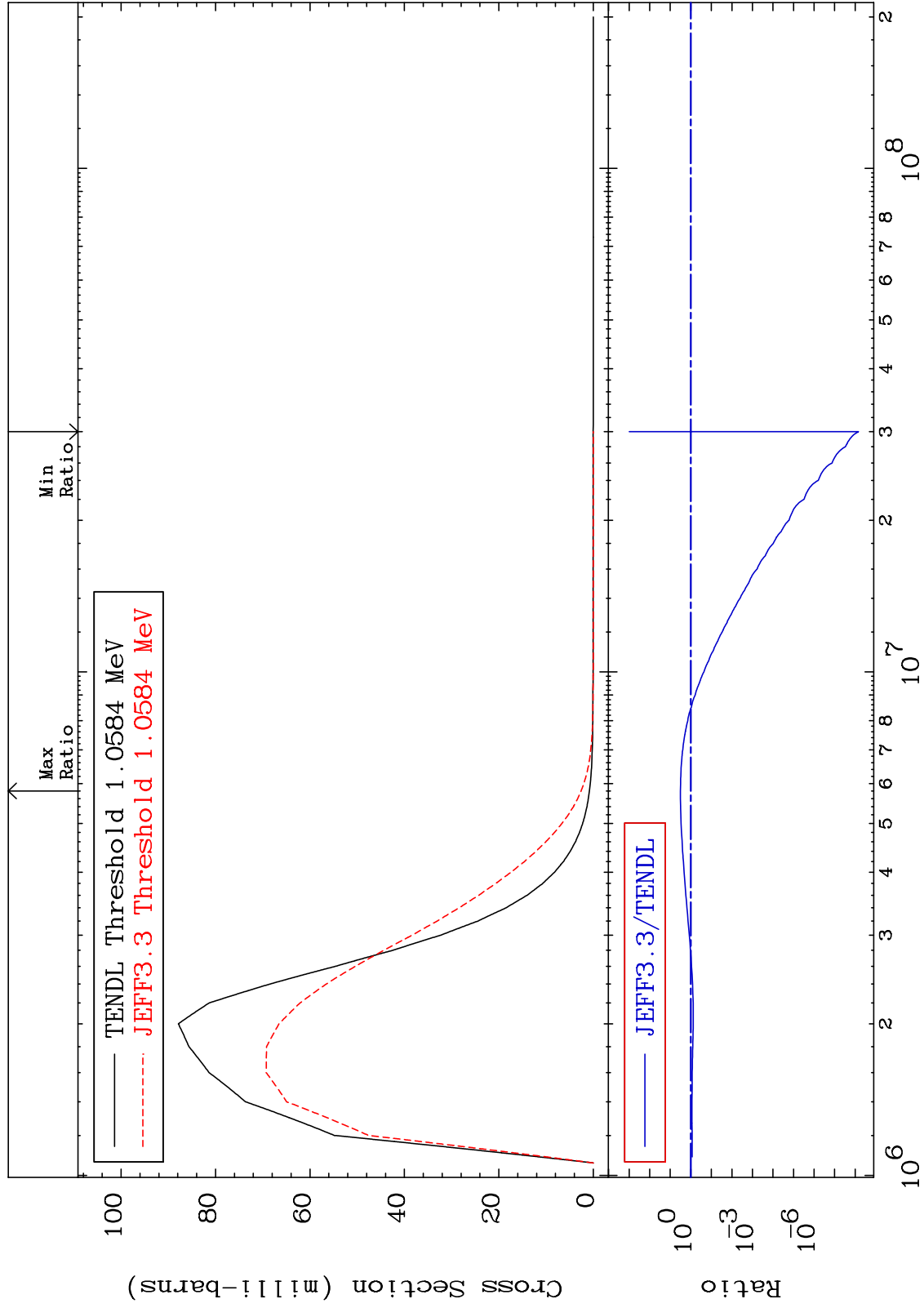
Incident Energy (eV)

53-I -129

MAT 5331

MT= 61 (n,n') Level  
Cross Section

53-I -129  
-100.0 To 218.7 %



29

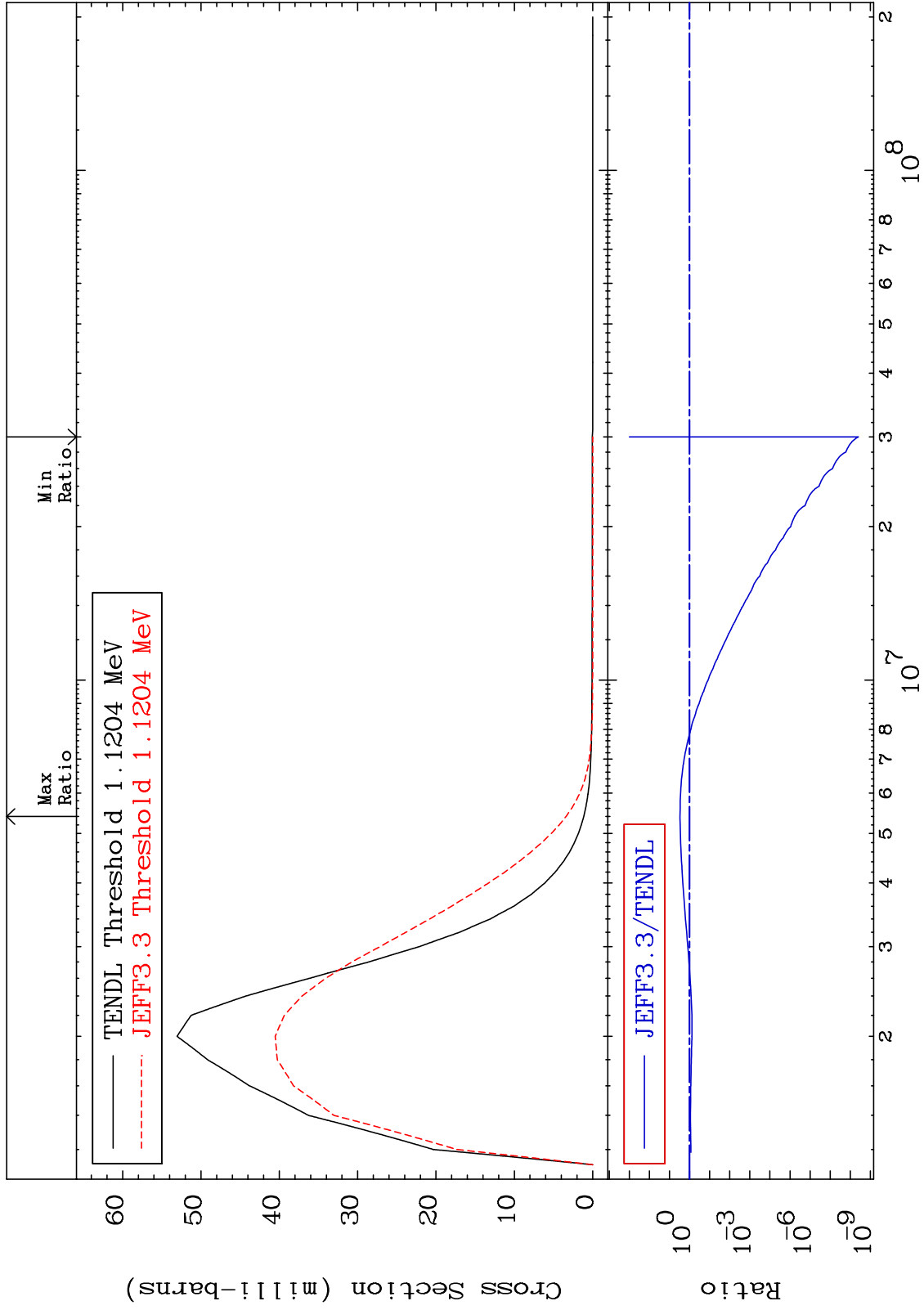
Incident Energy (eV)

53-I -129

MAT 5331

MT= 62 (n,n') Level  
Cross Section

53-I -129  
-100.0 To 198.2 %



30

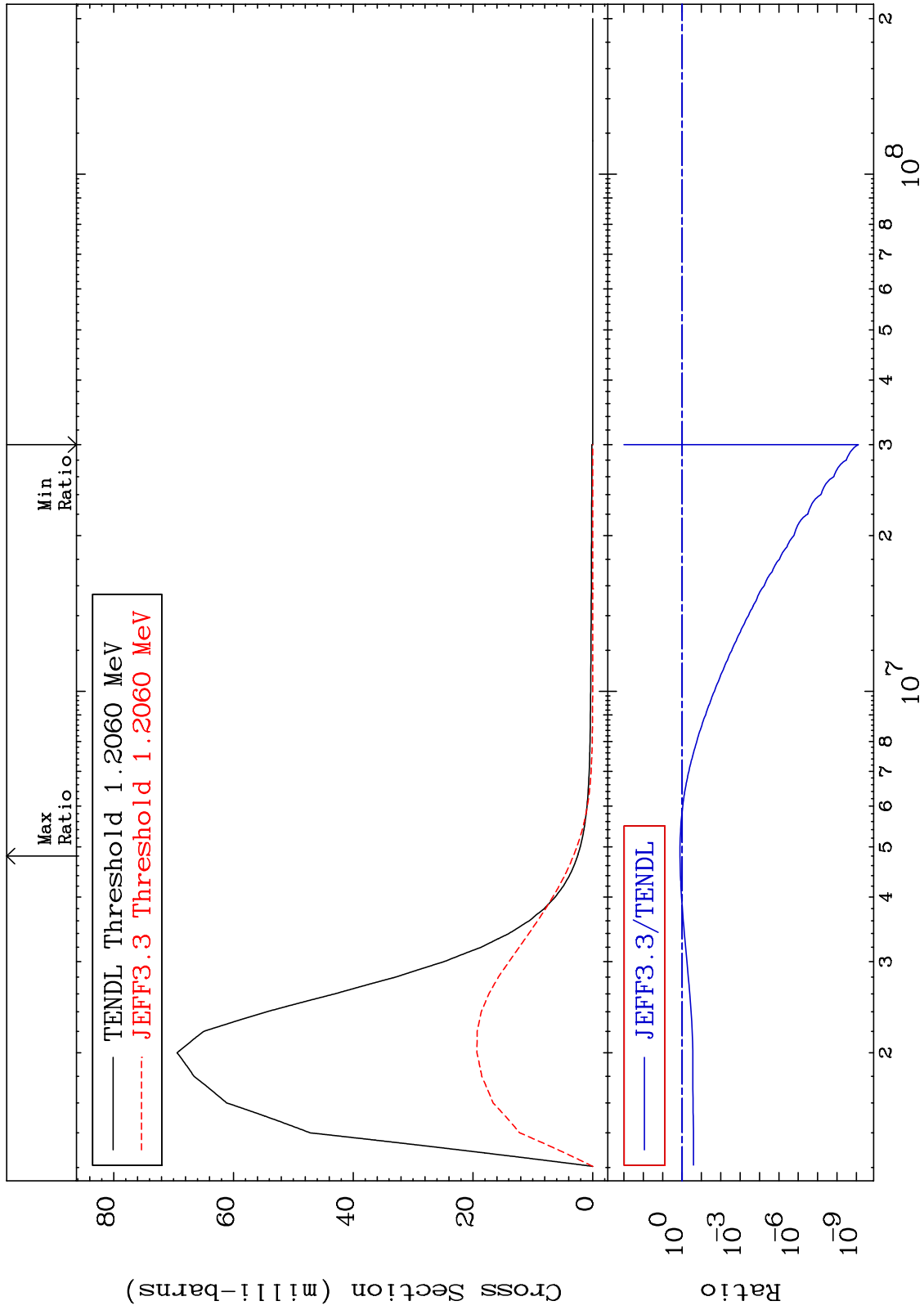
Incident Energy (eV)

53-I -129

MAT 5331

MT= 63 (n,n') Level  
Cross Section

53-I -129  
-100.0 To 27.43 %

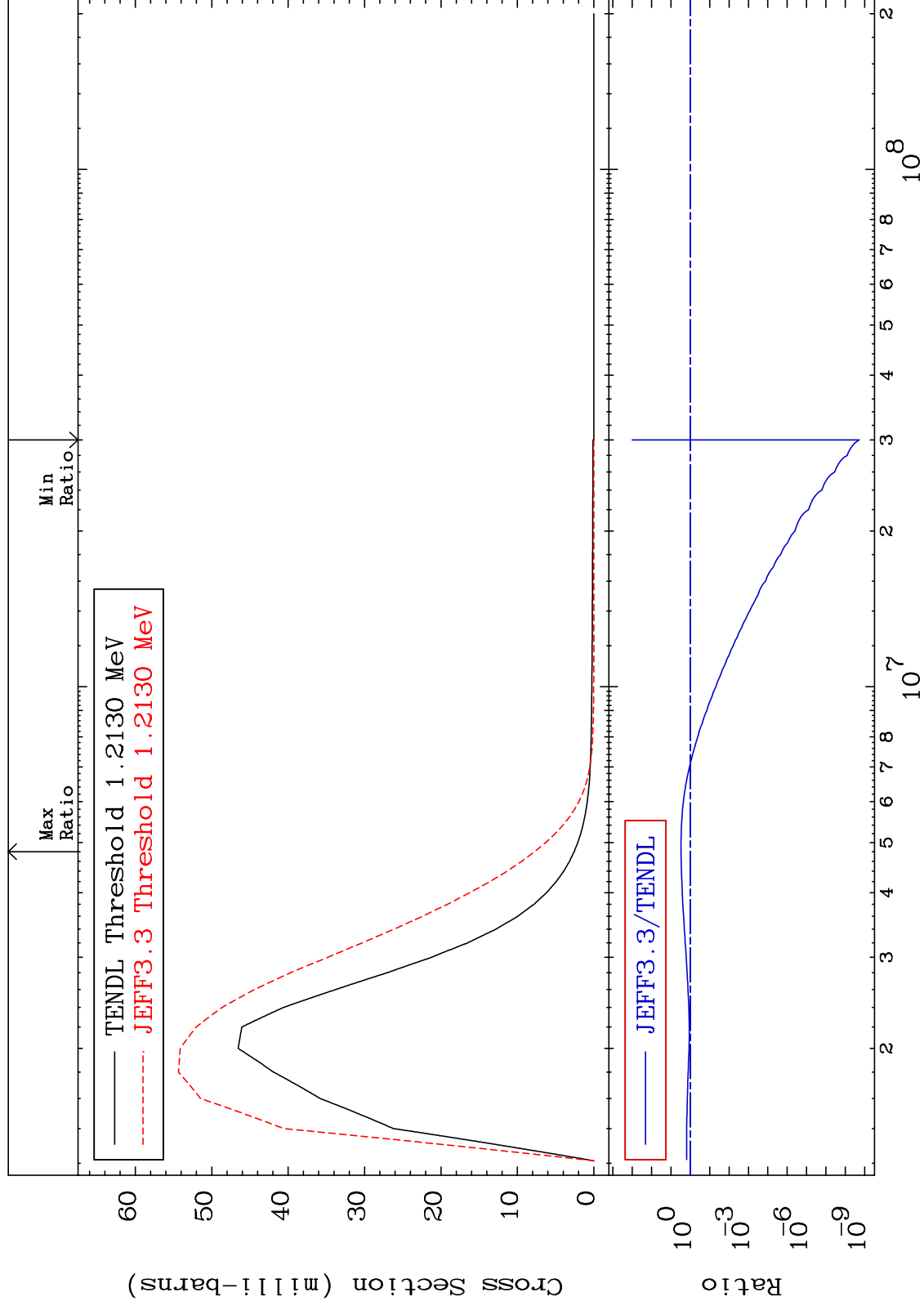




MAT 5331

MT= 64 (n,n') Level  
Cross Section

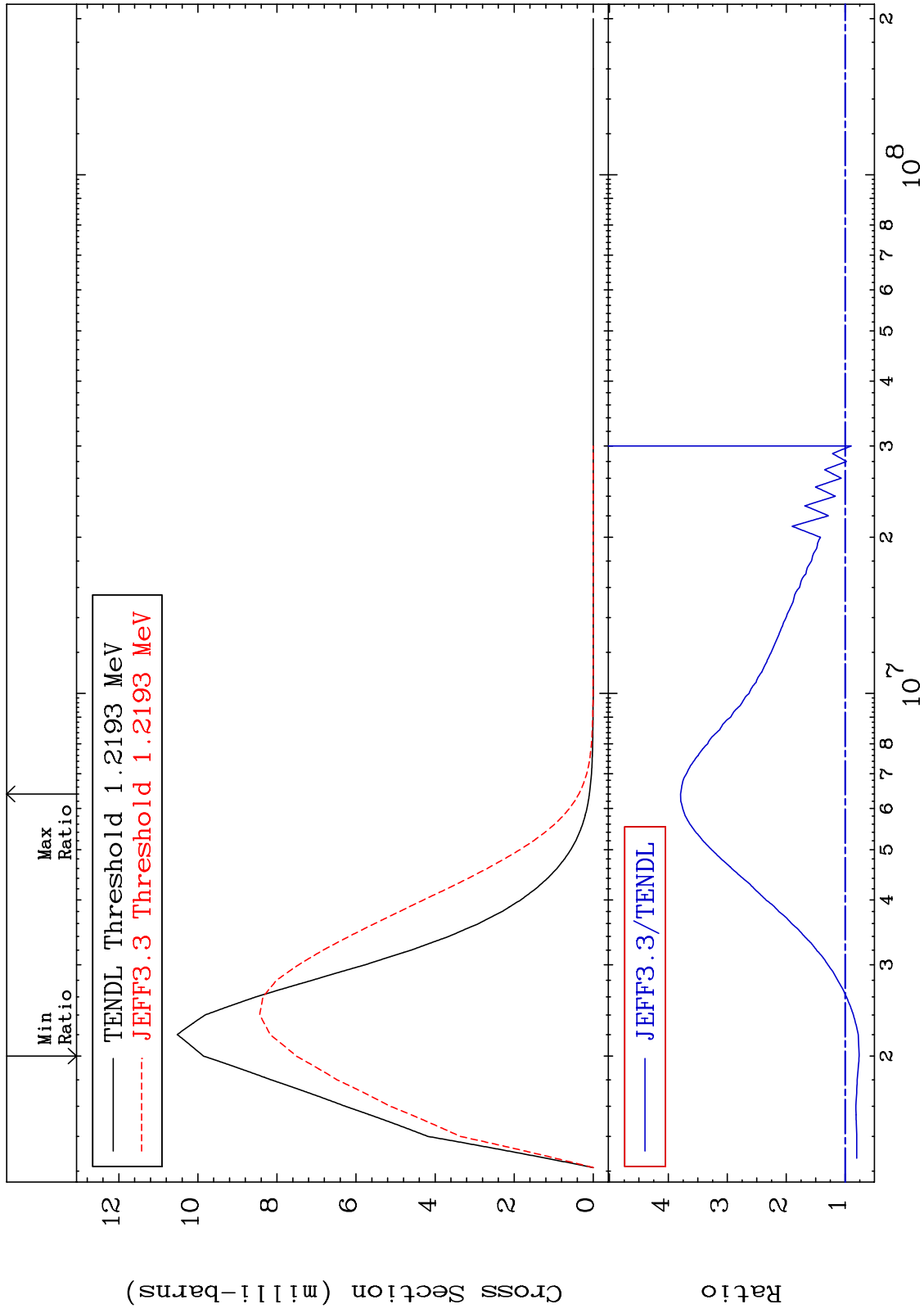
53-I -129  
-100.0 To 201.0 %

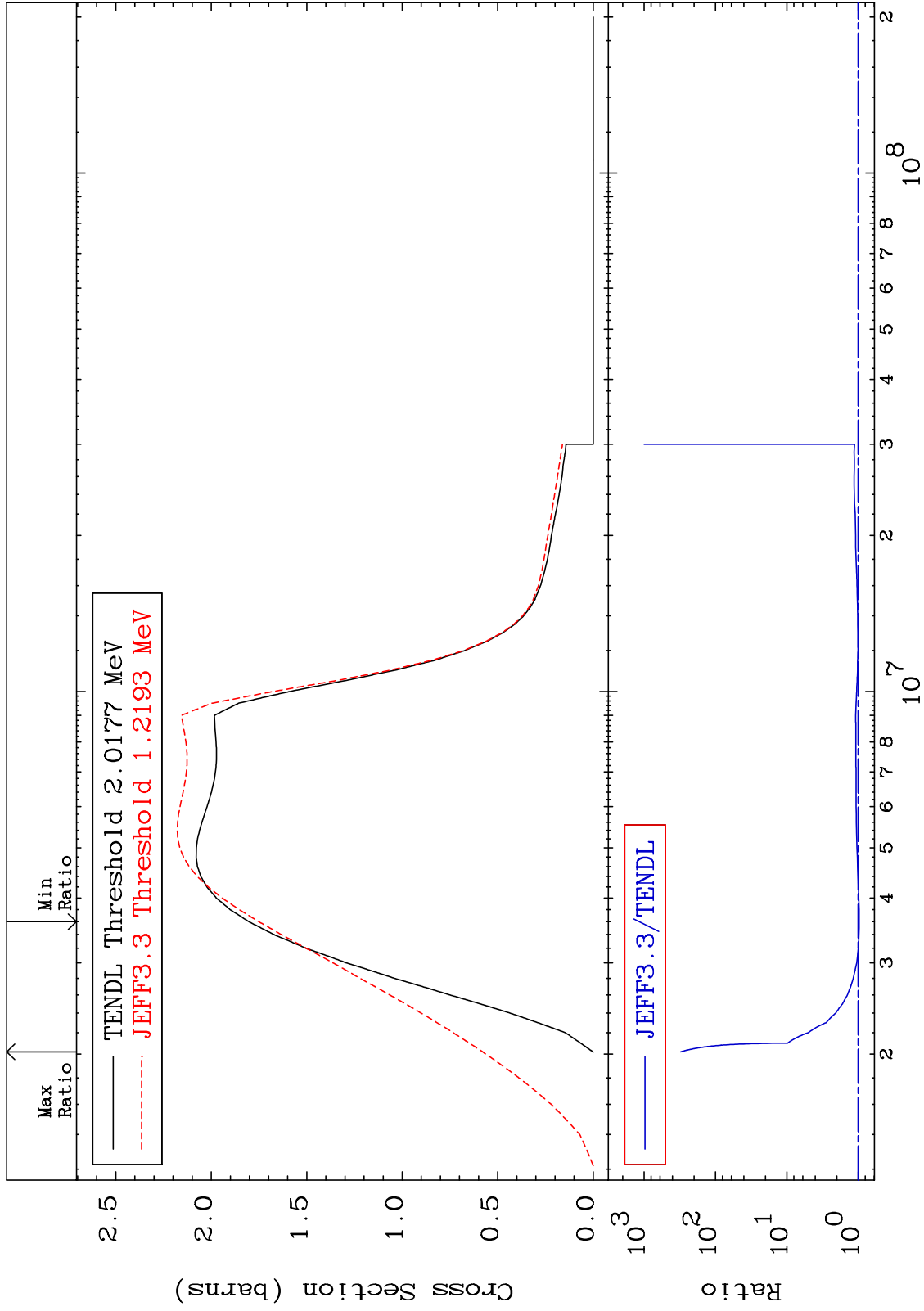


MAT 5331

MT= 65 (n, n') Level  
Cross Section

53-I -129  
-23.80 To 279.2 %

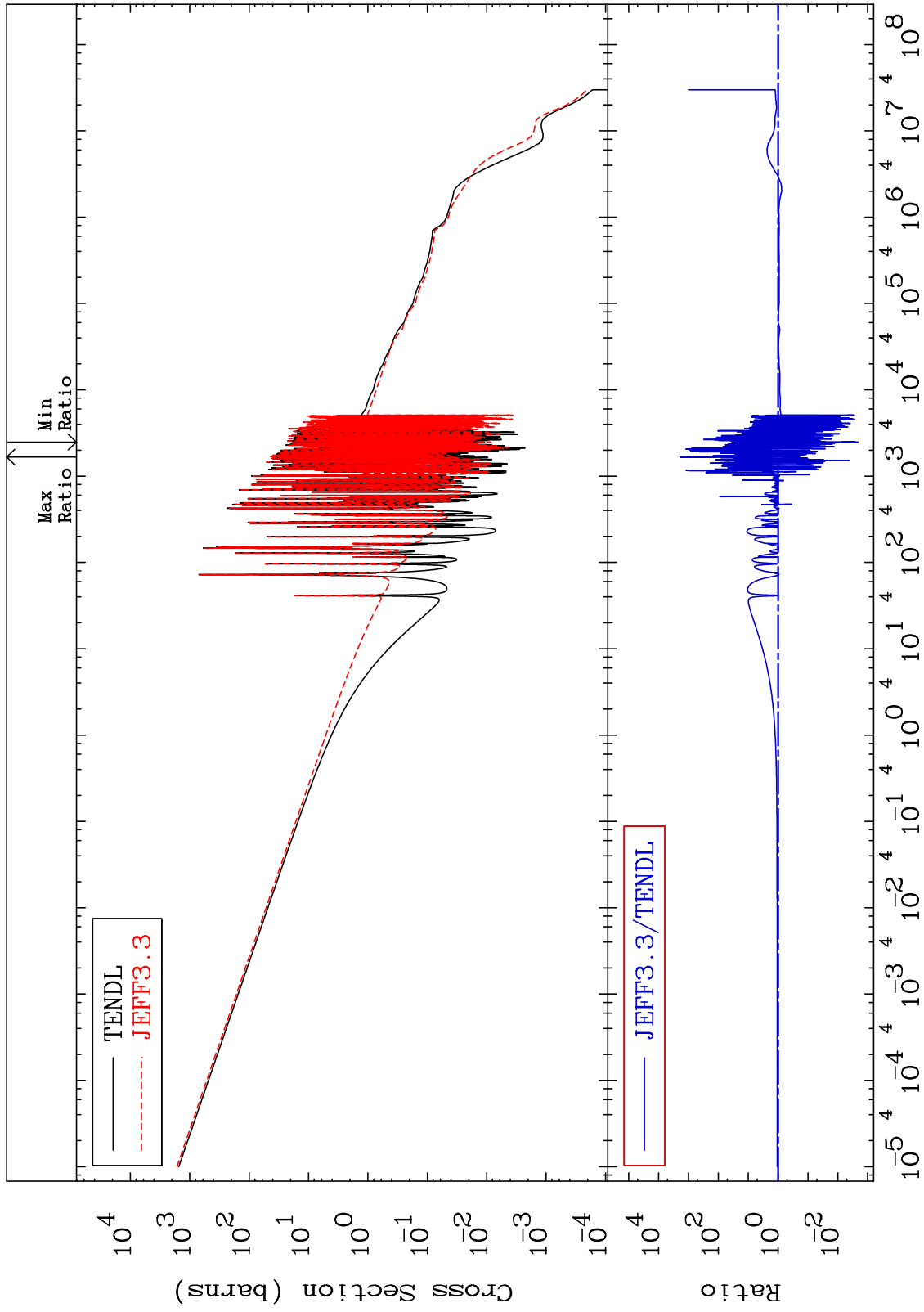




MAT 5331

(n,  $\gamma$ )  
Cross Section

53-I -129  
-99.80 To 9999. %



35

Incident Energy (eV)

53-I -129

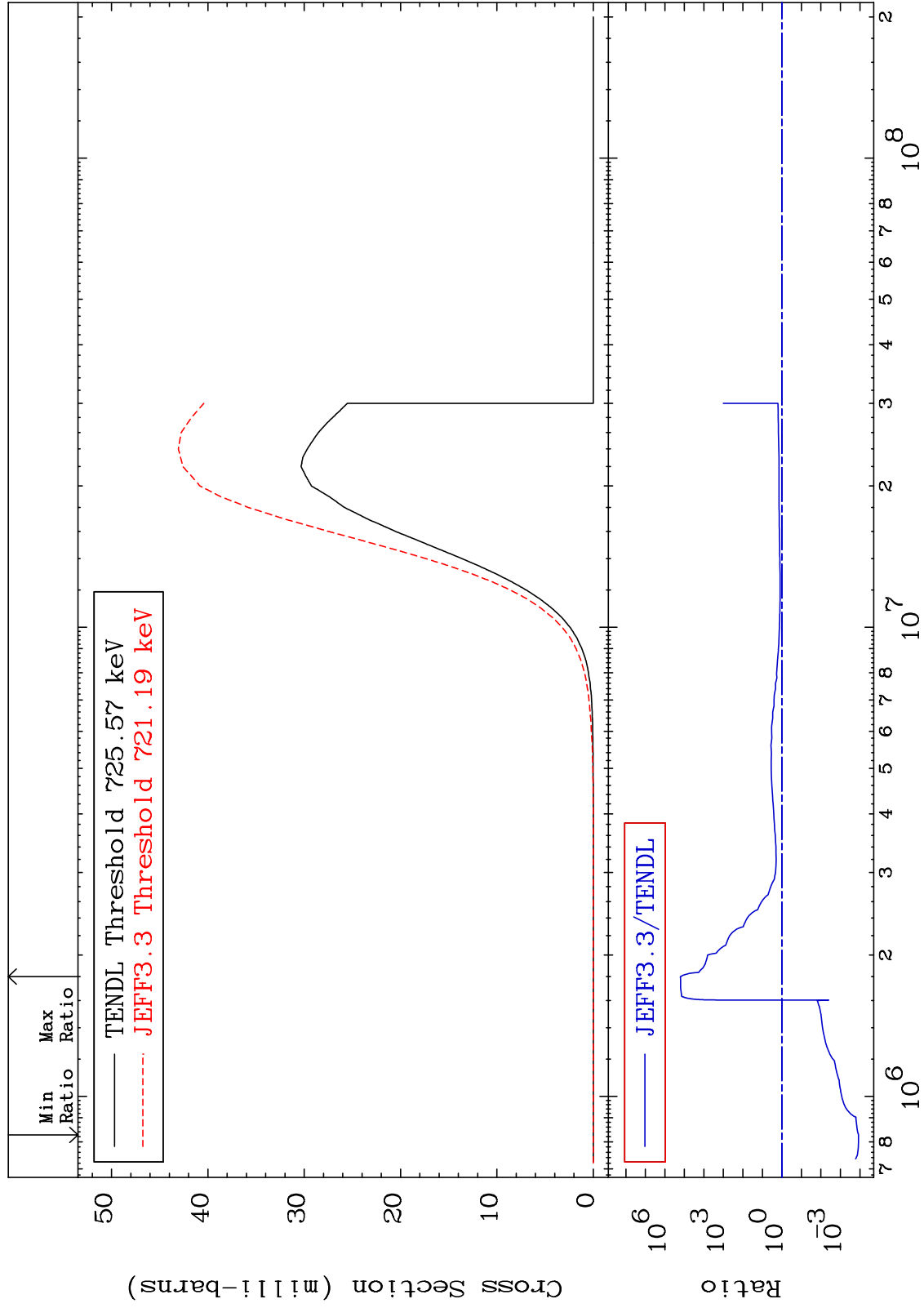
MAT 5331

(n,p)

53-I -129

Cross Section

-99.99 To 9999. %



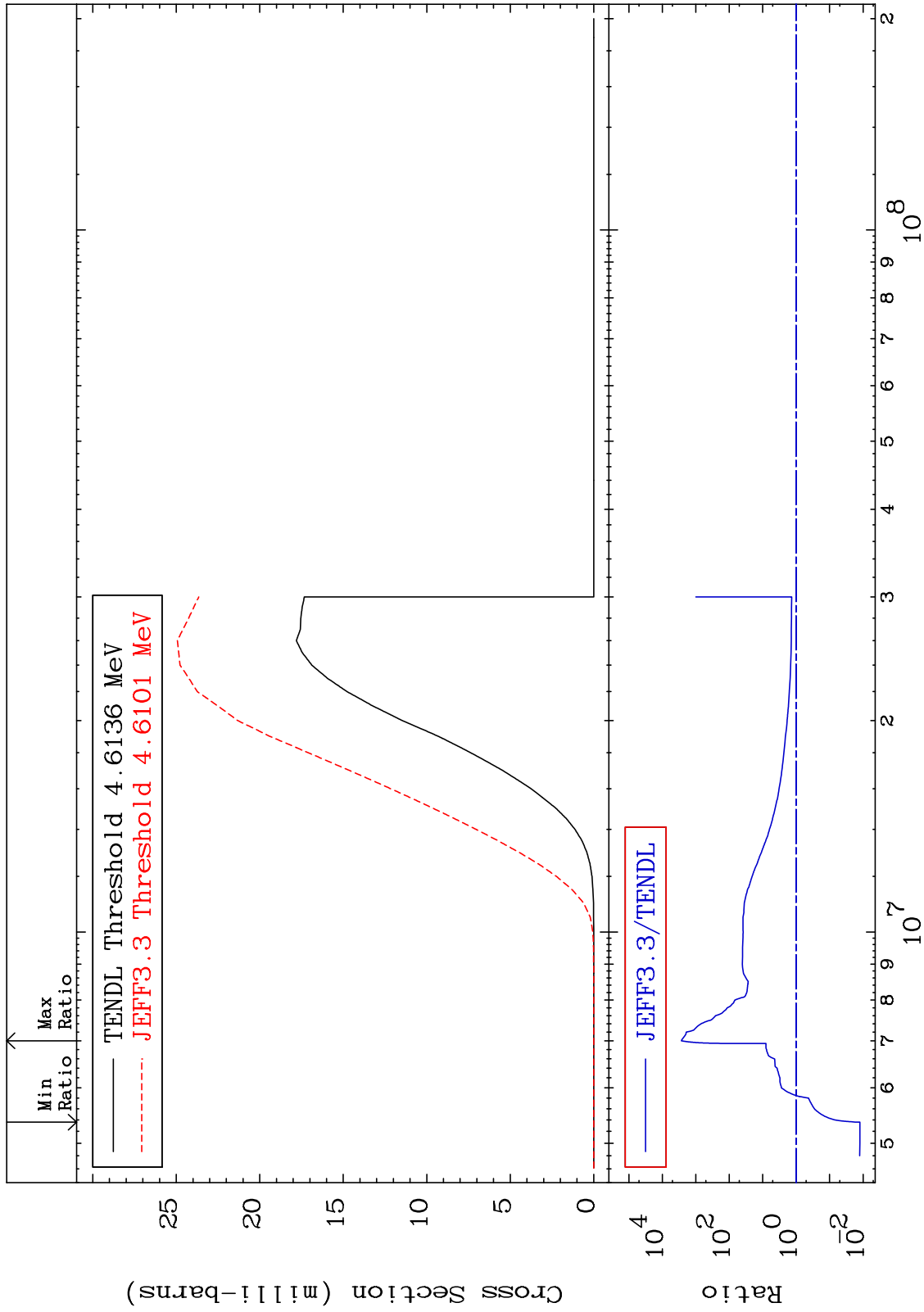
36

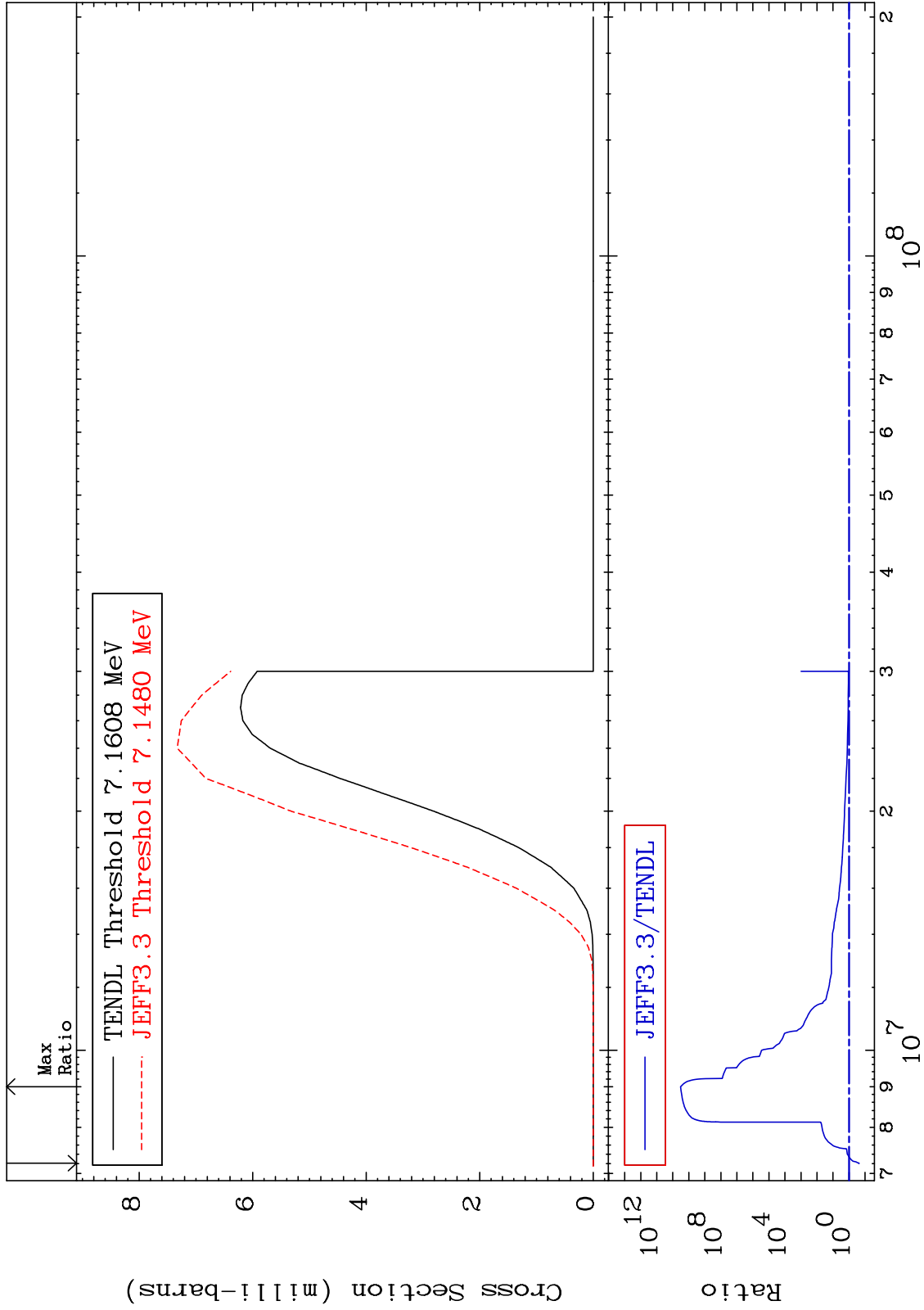
Incident Energy (eV)

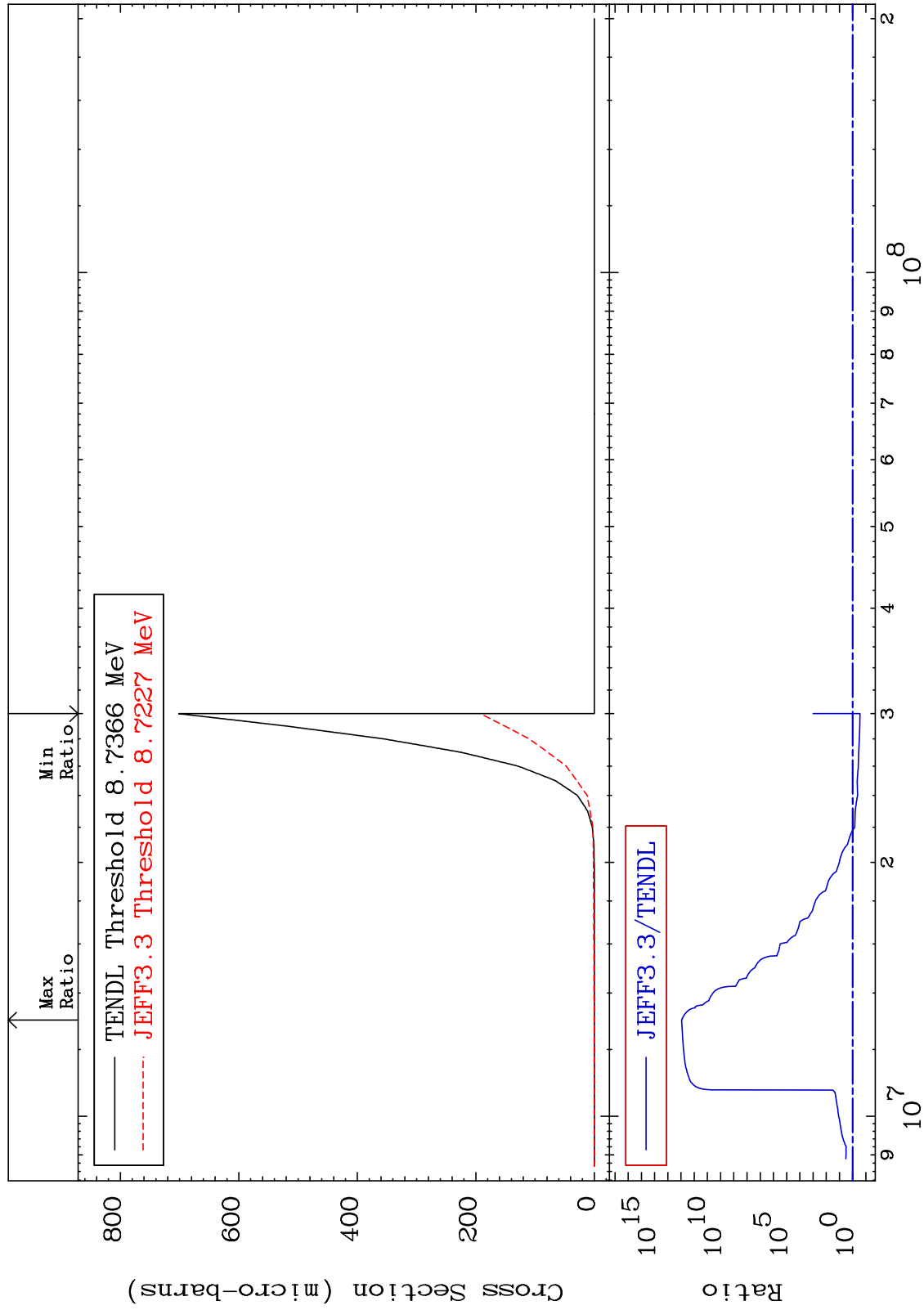
53-I -129

Cross Section

-98.76 To 9999. %









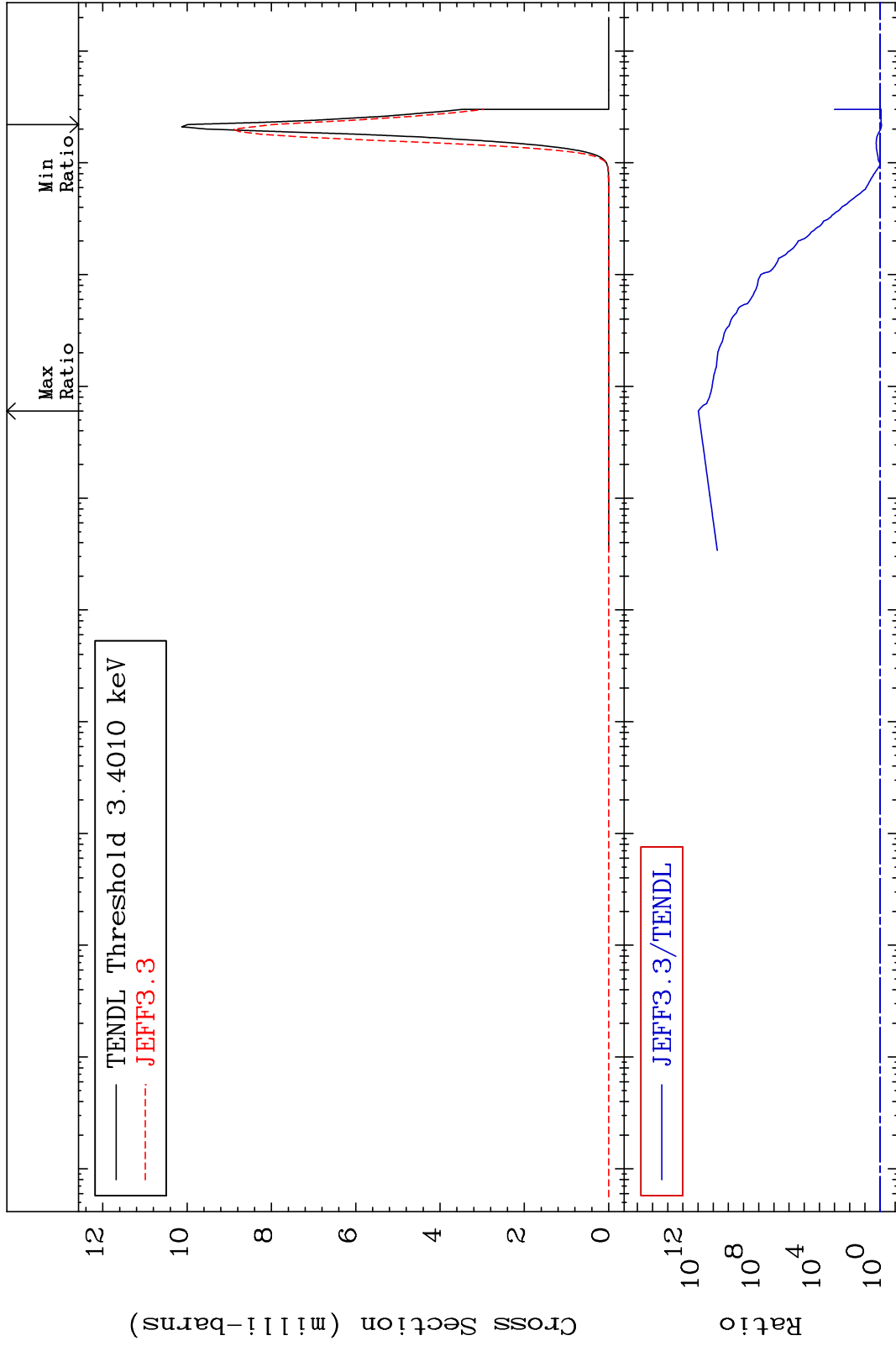
MAT 5331

(n,  $\alpha$ )

53-I -129

Cross Section

-20.22 To 9999. %



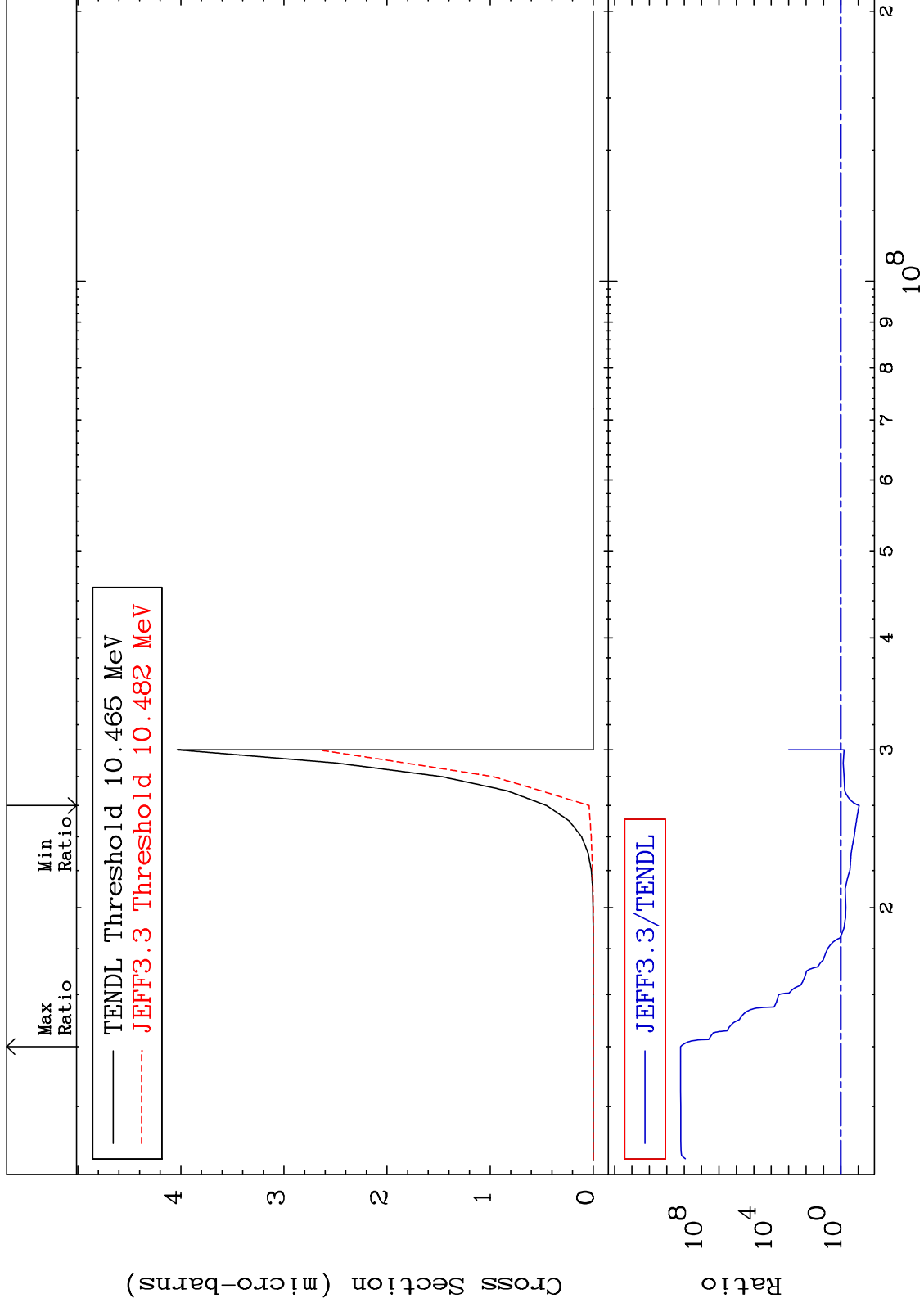
40

Incident Energy (eV)

53-I -129

Cross Section

-91.11 To 9999. %



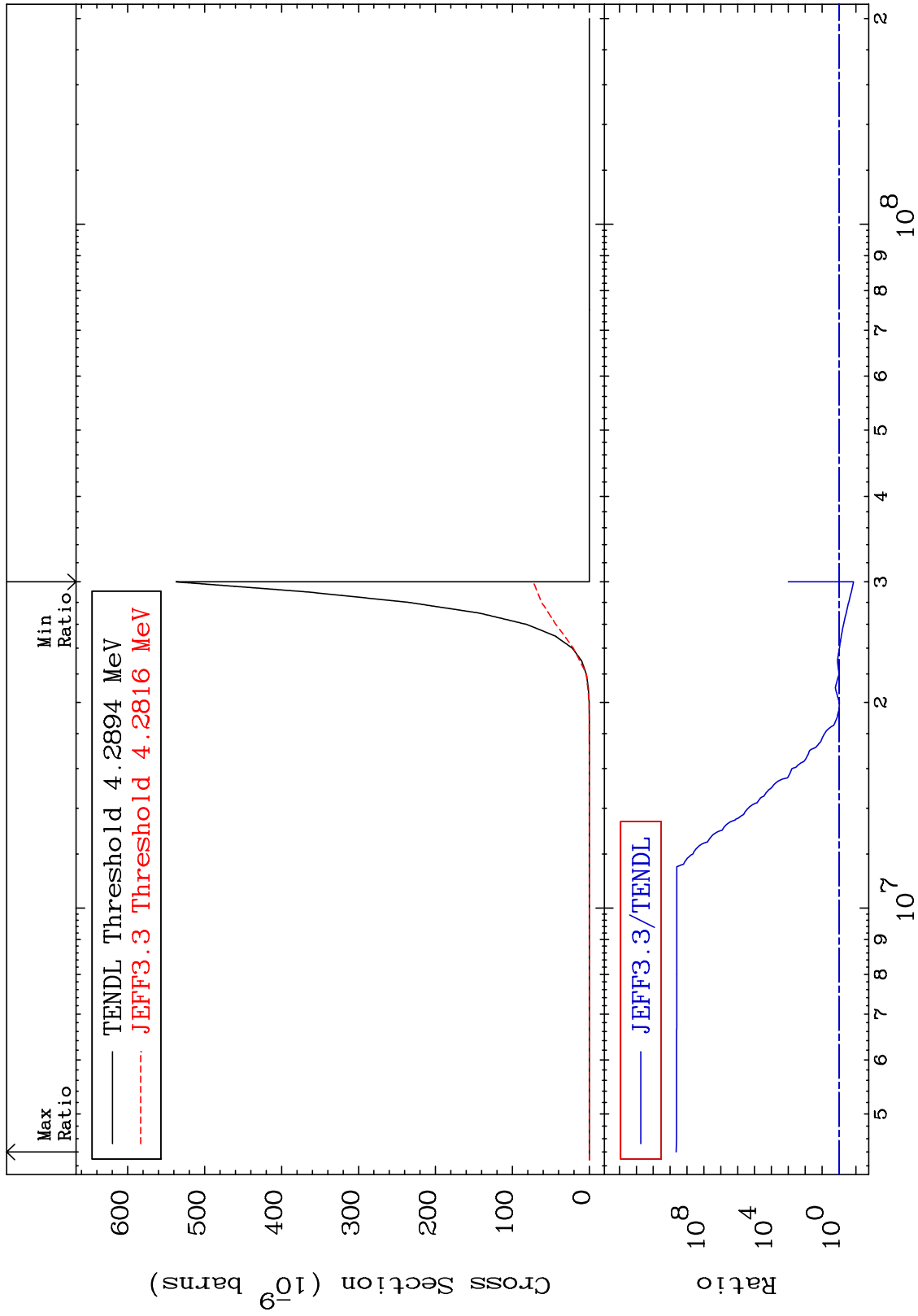
MAT 5331

(n,p)  $\alpha$

53-I -129

Cross Section

-86.42 To 9999. %



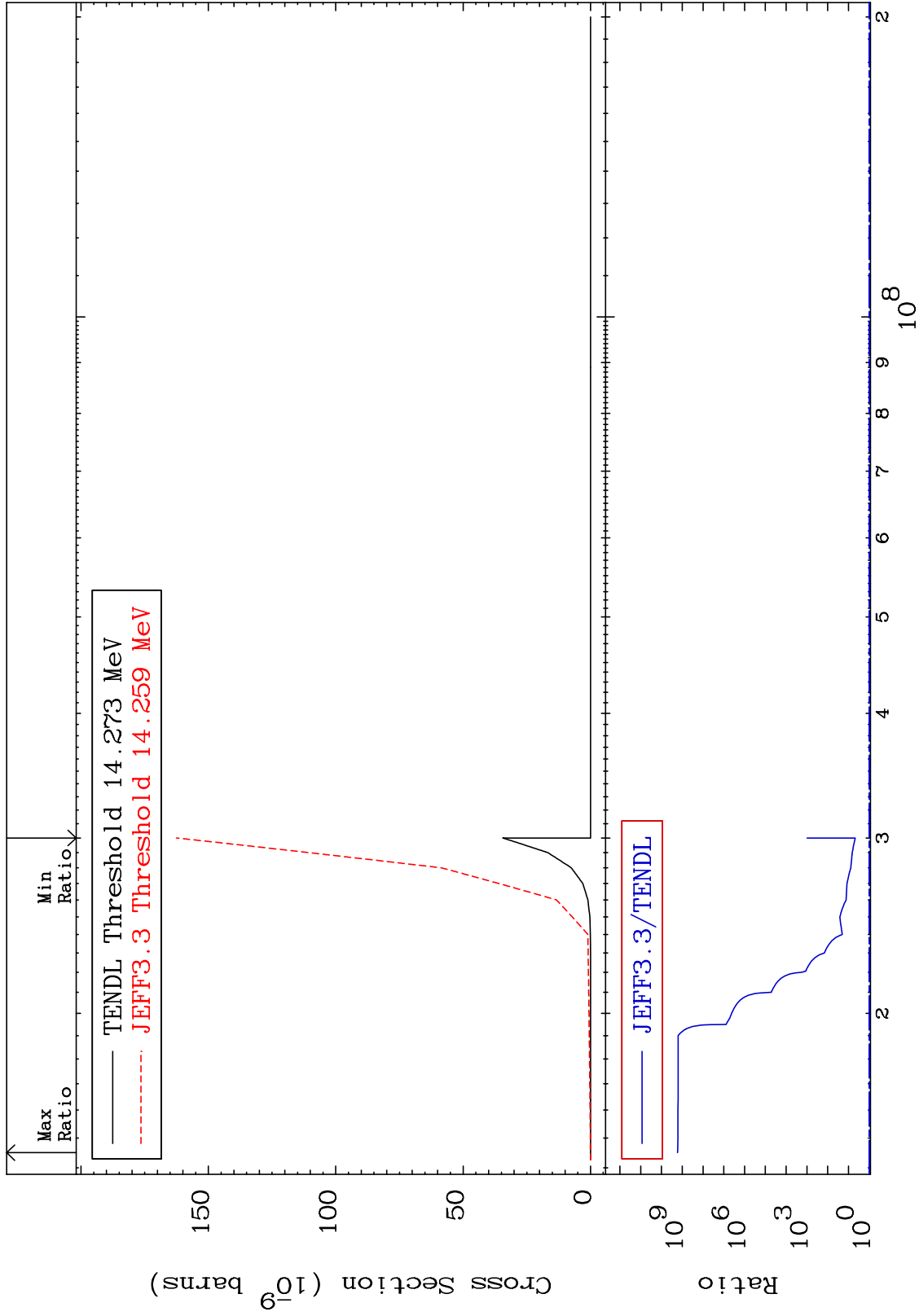
42

Incident Energy (eV)

53-I -129

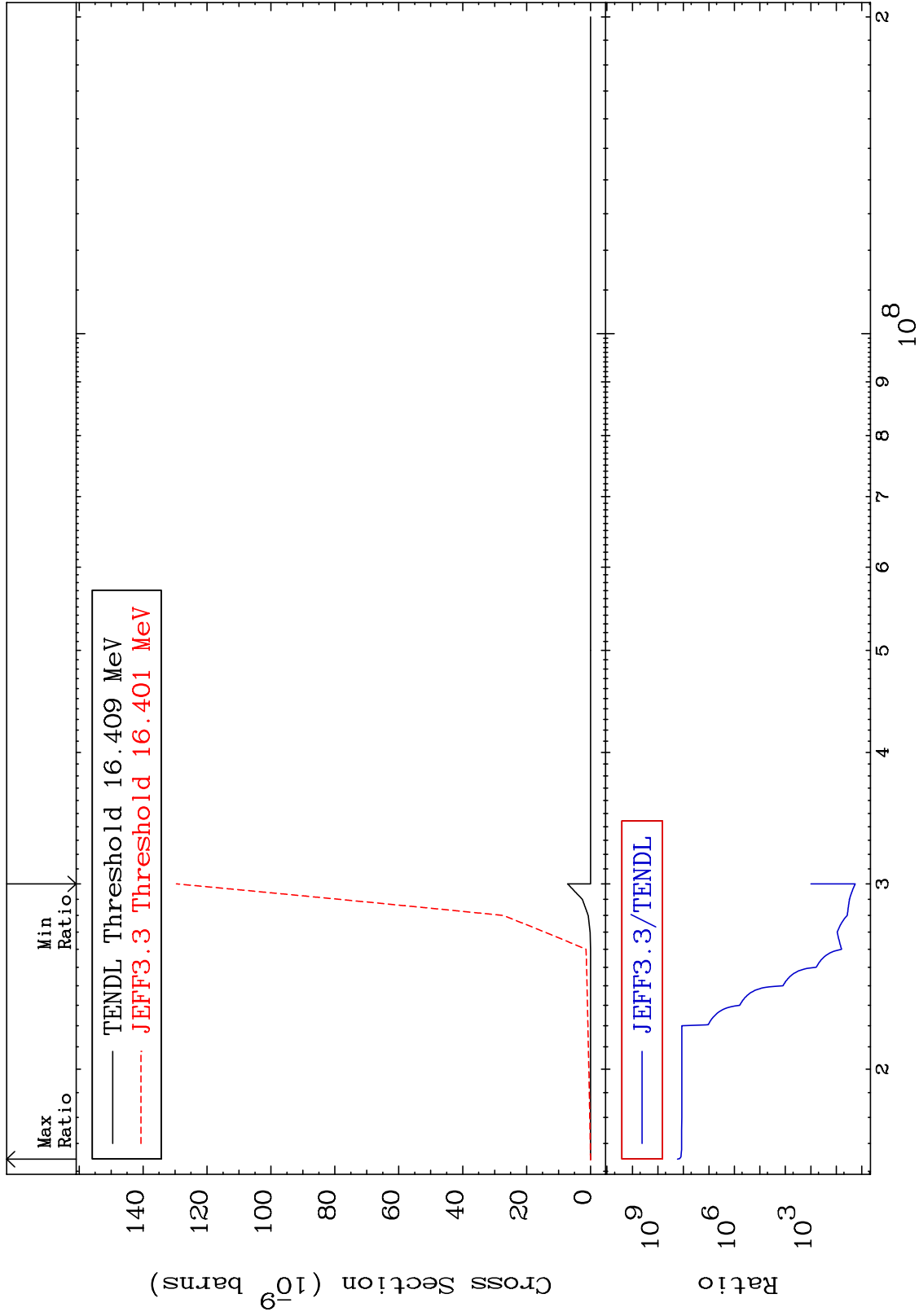
Cross Section

372.1 To 9999. %



Cross Section

1706. To 9999. %



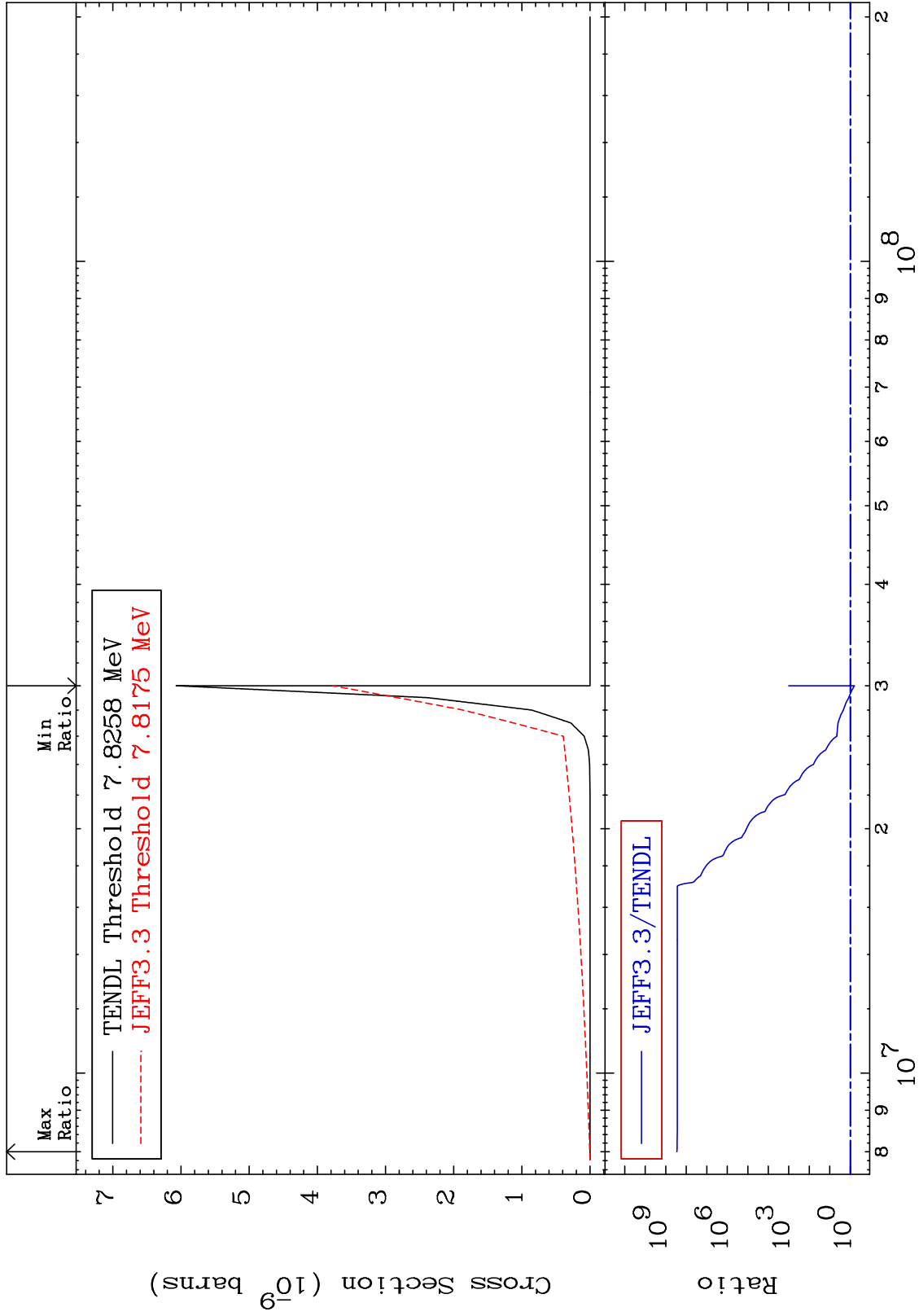
MAT 5331

(n,d)  $\alpha$

53-I -129

-37.71 To 9999. %

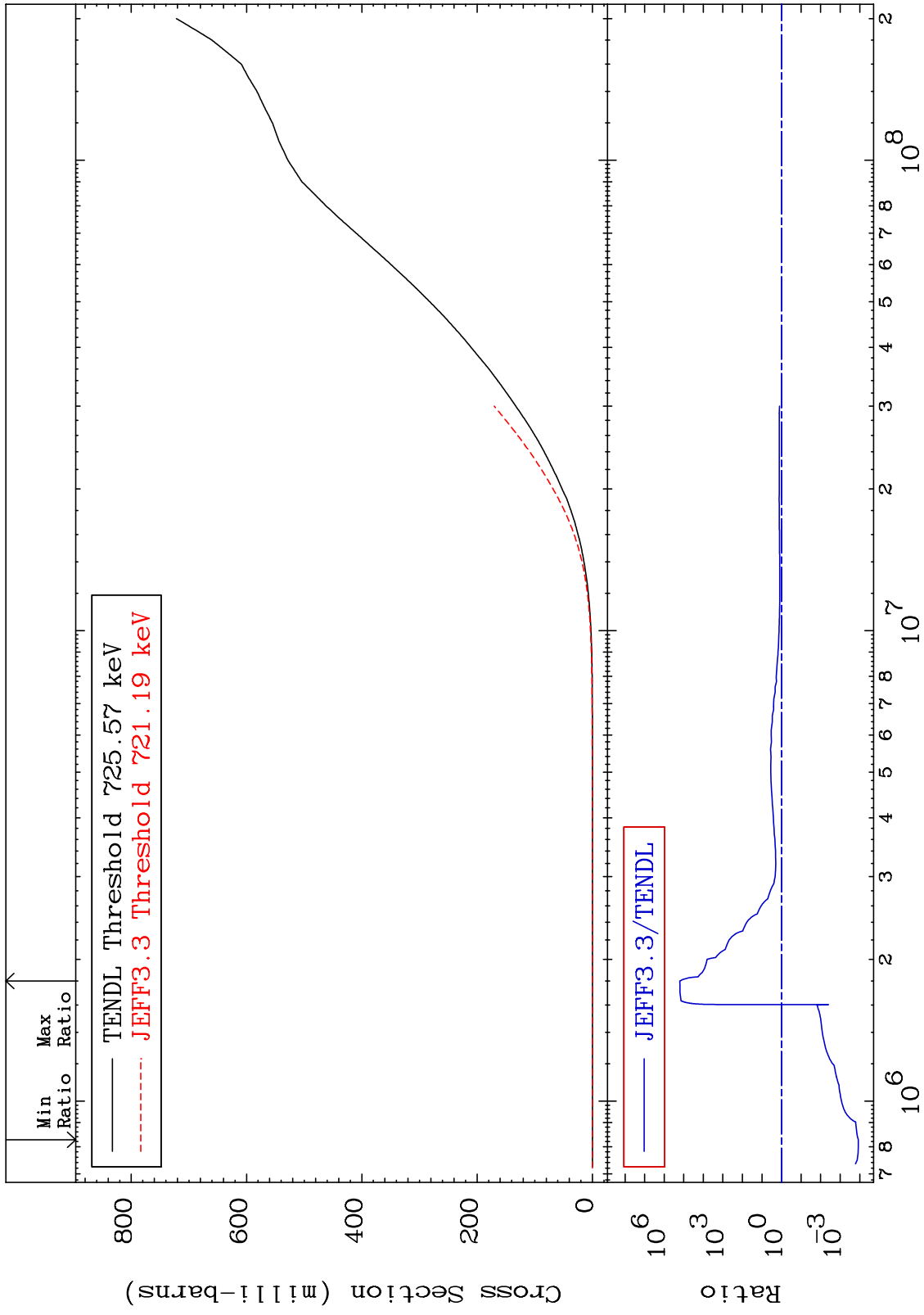
Cross Section



45

Incident Energy (eV)

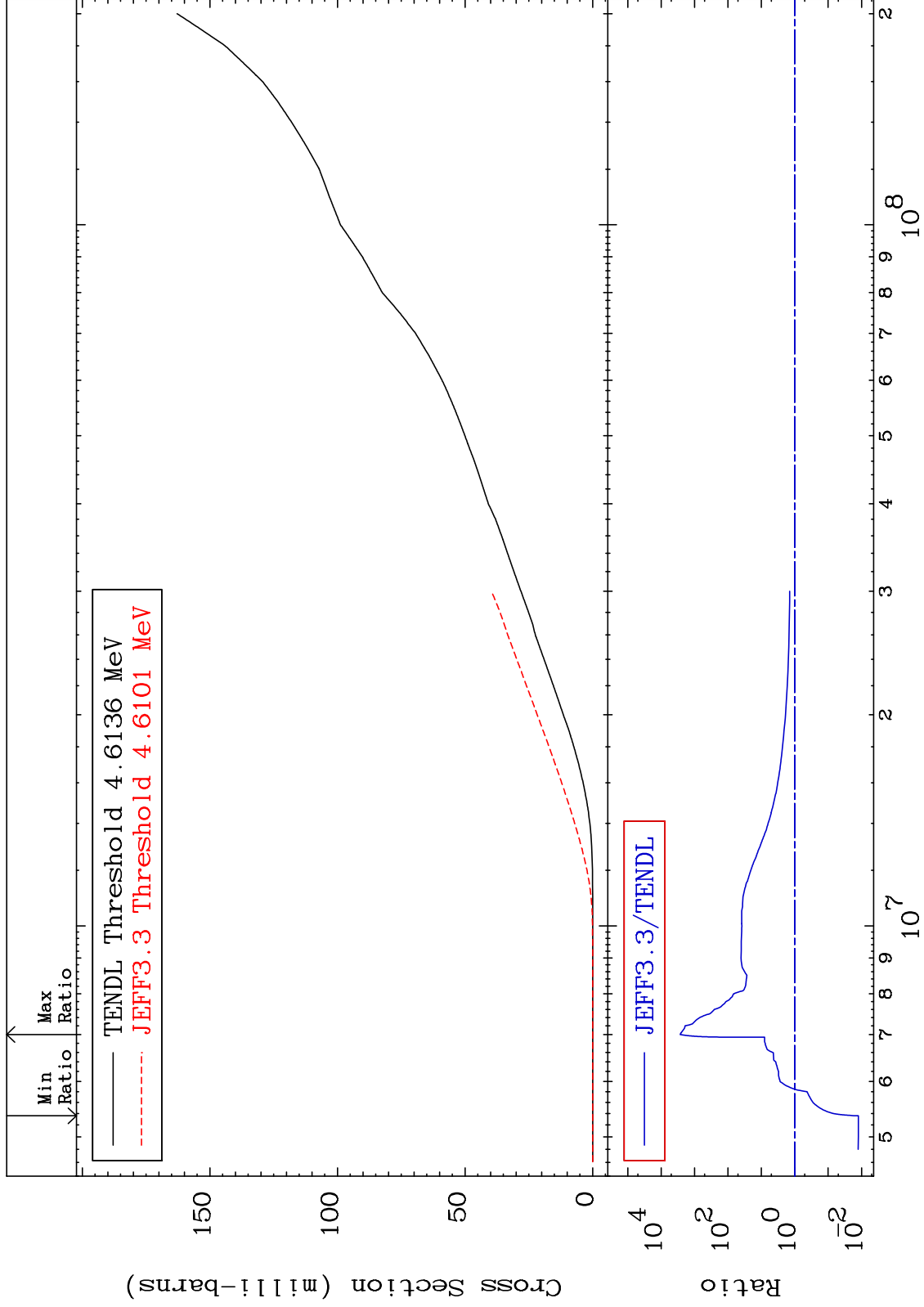
53-I -129



MAT 5331

Deuterium Production  
Cross Section

53-I -129  
-98.76 To 9999. %

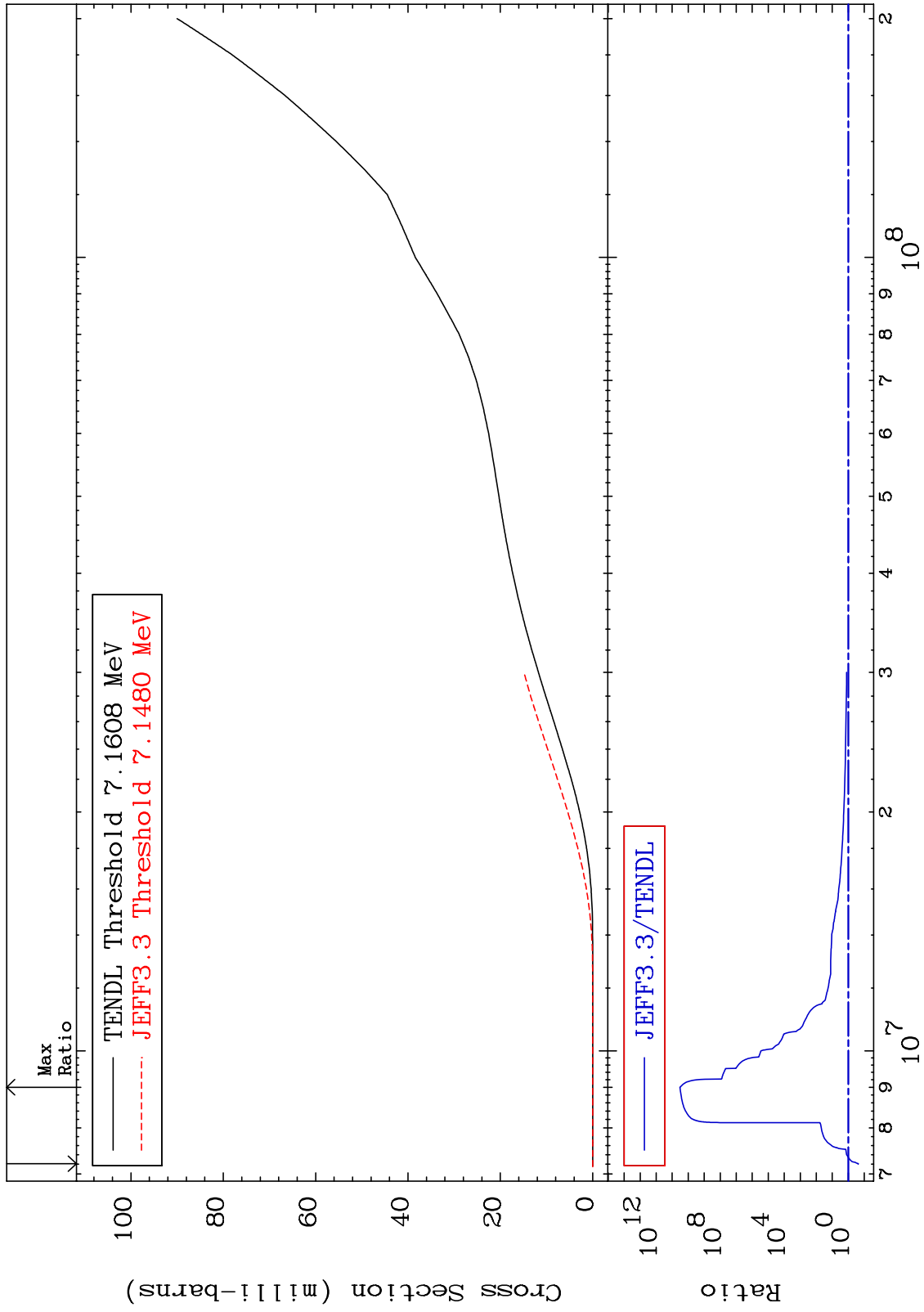


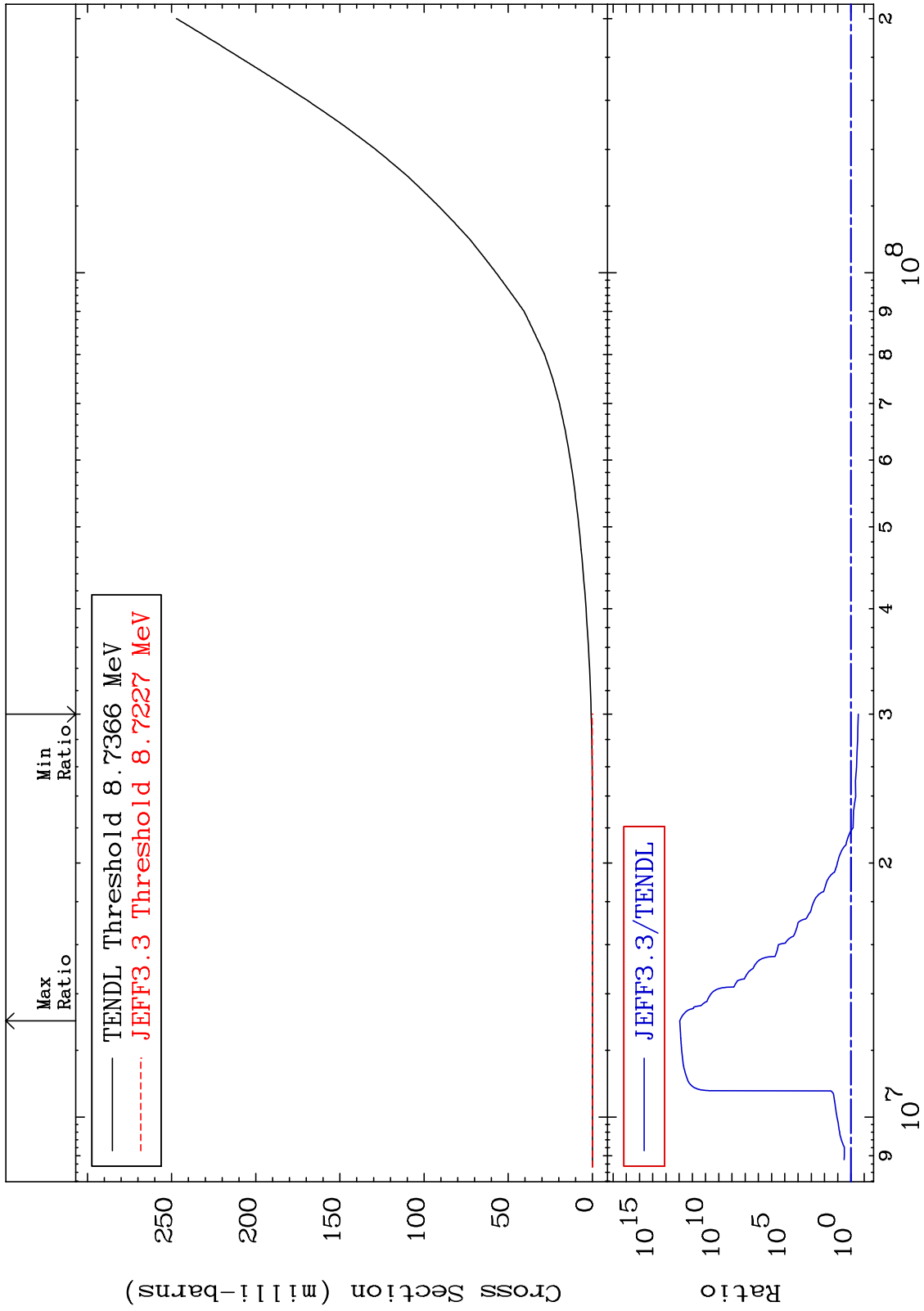
47

Incident Energy (eV)

53-I -129



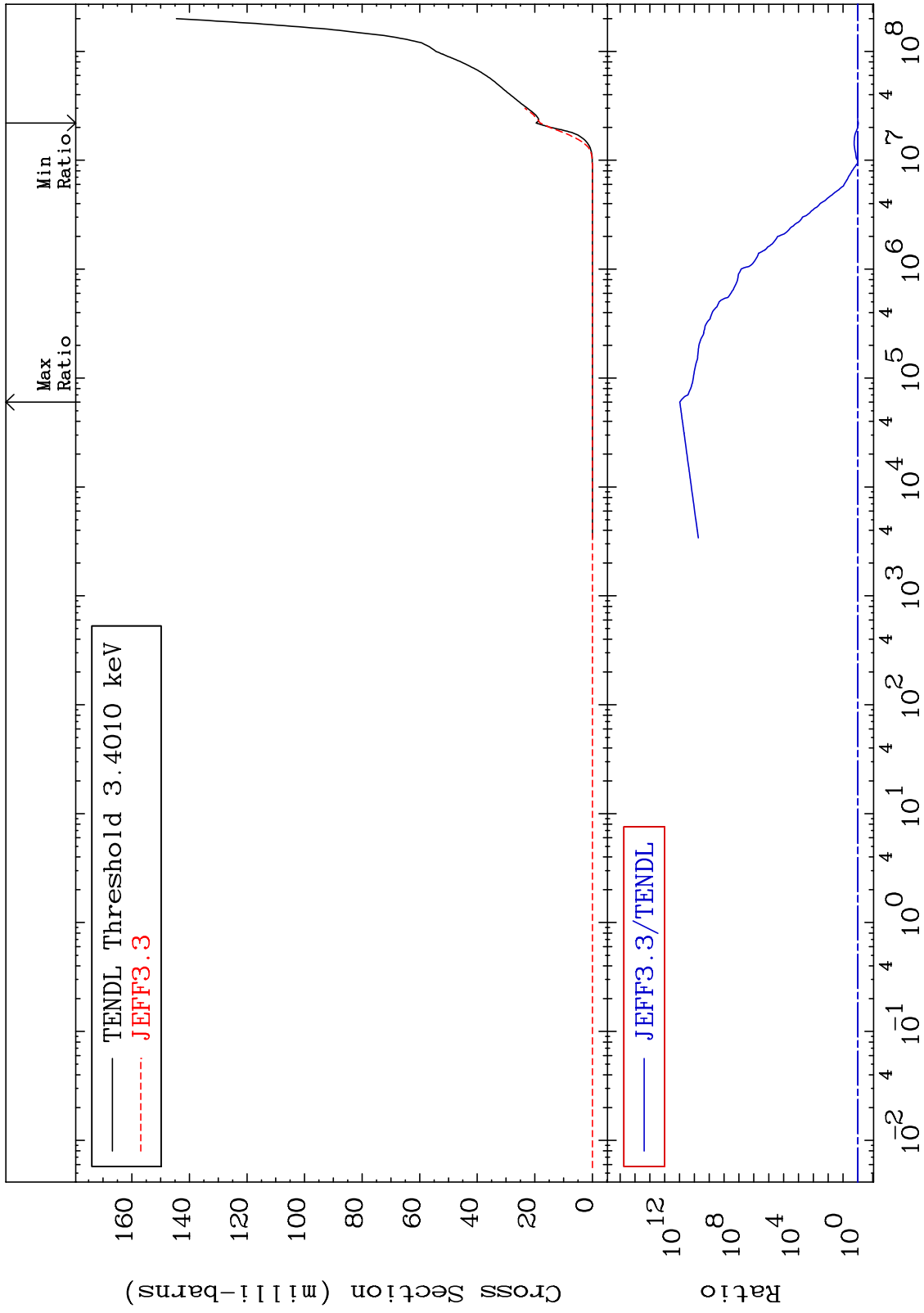




MAT 5331

He-4 Production  
Cross Section

53-I -129  
-7.374 To 9999. %



50

Incident Energy (eV)

53-I -129

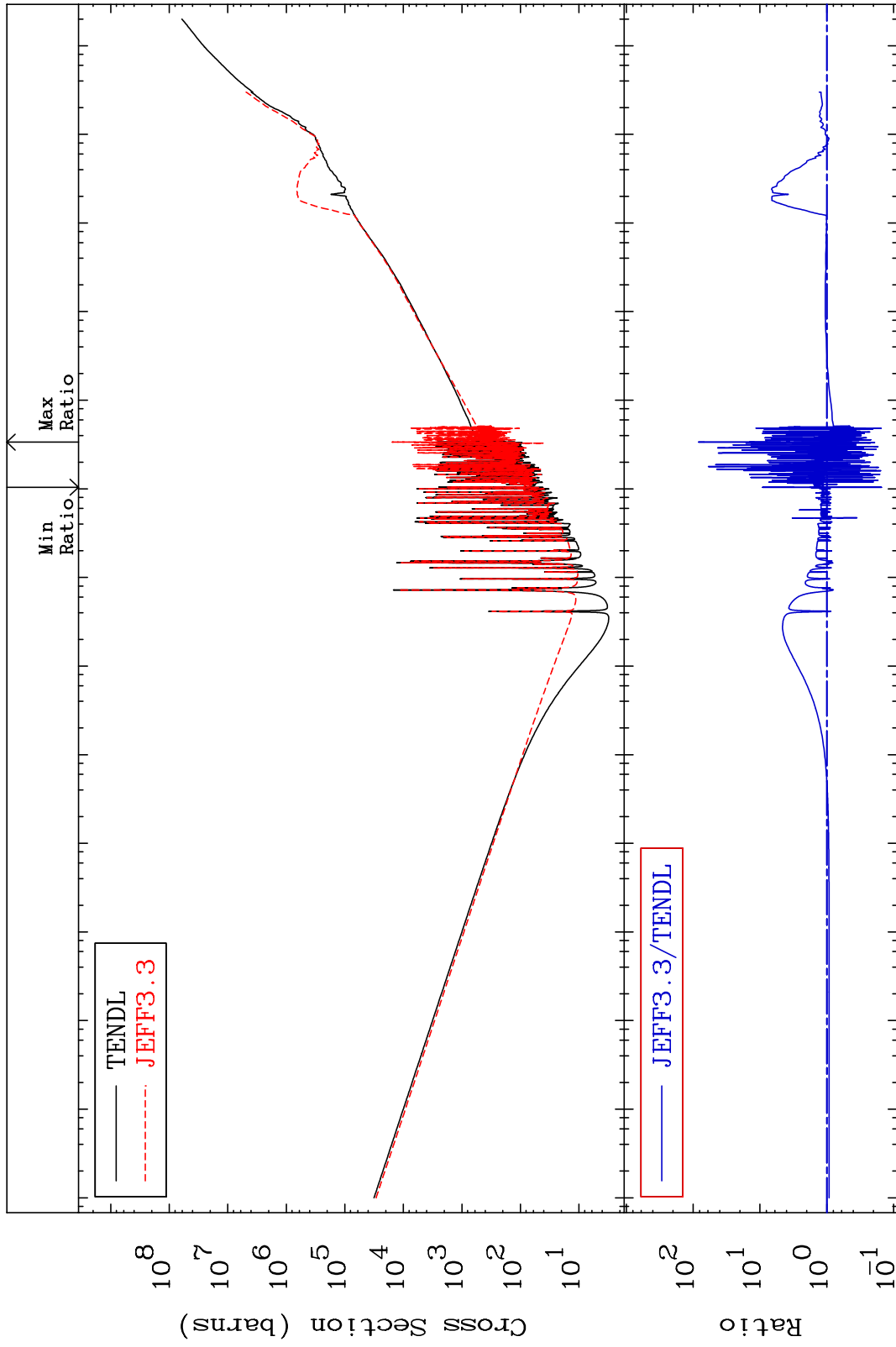
MAT 5331

Kerma total (eV-barns)

53-I -129

-84.84 To 8256. %

Cross Section



51

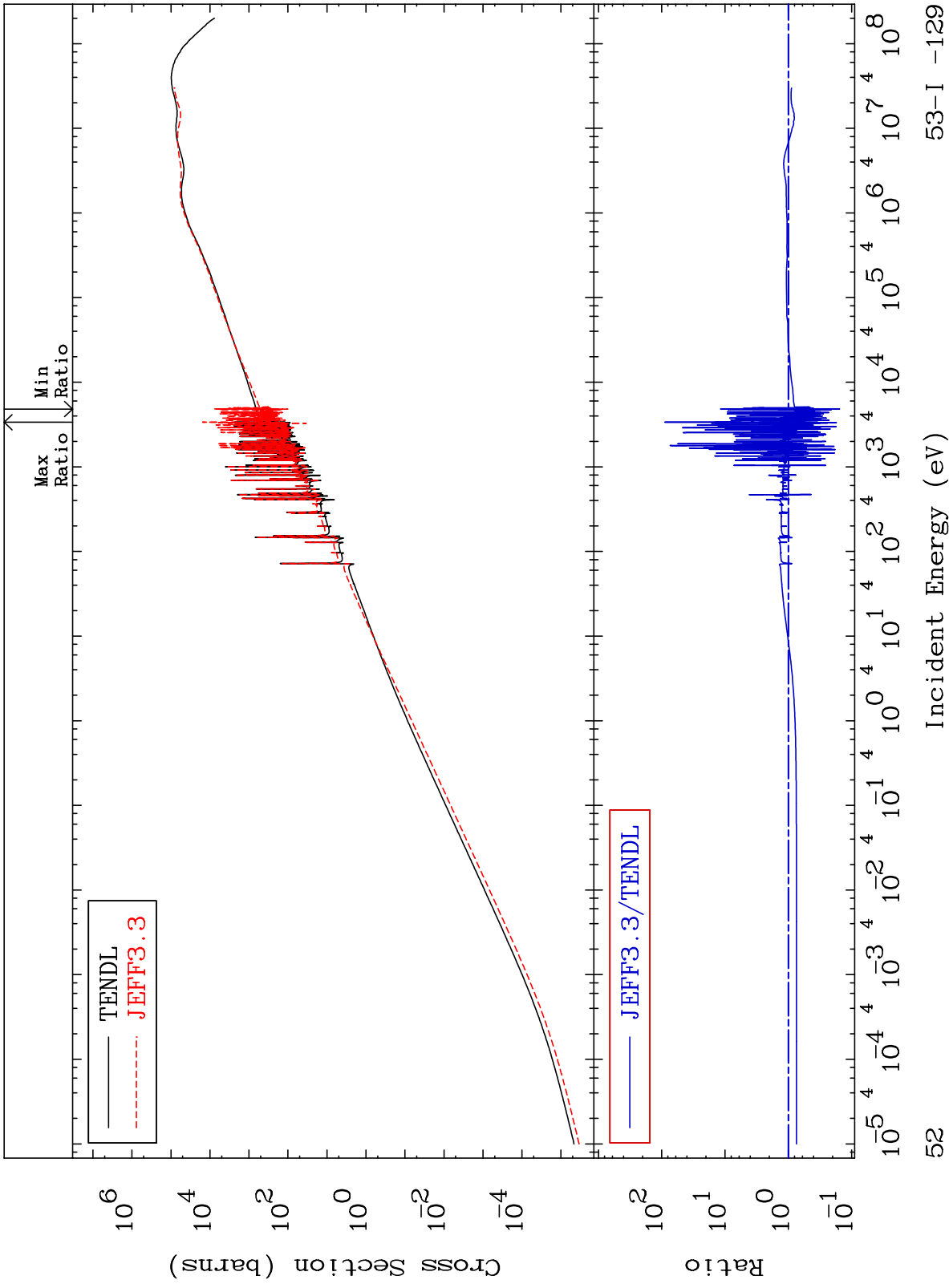
Incident Energy (eV)

53-I -129

MAT 5331

Kerma elastic  
Cross Section

53-I -129  
-84.58 To 8870. %



52

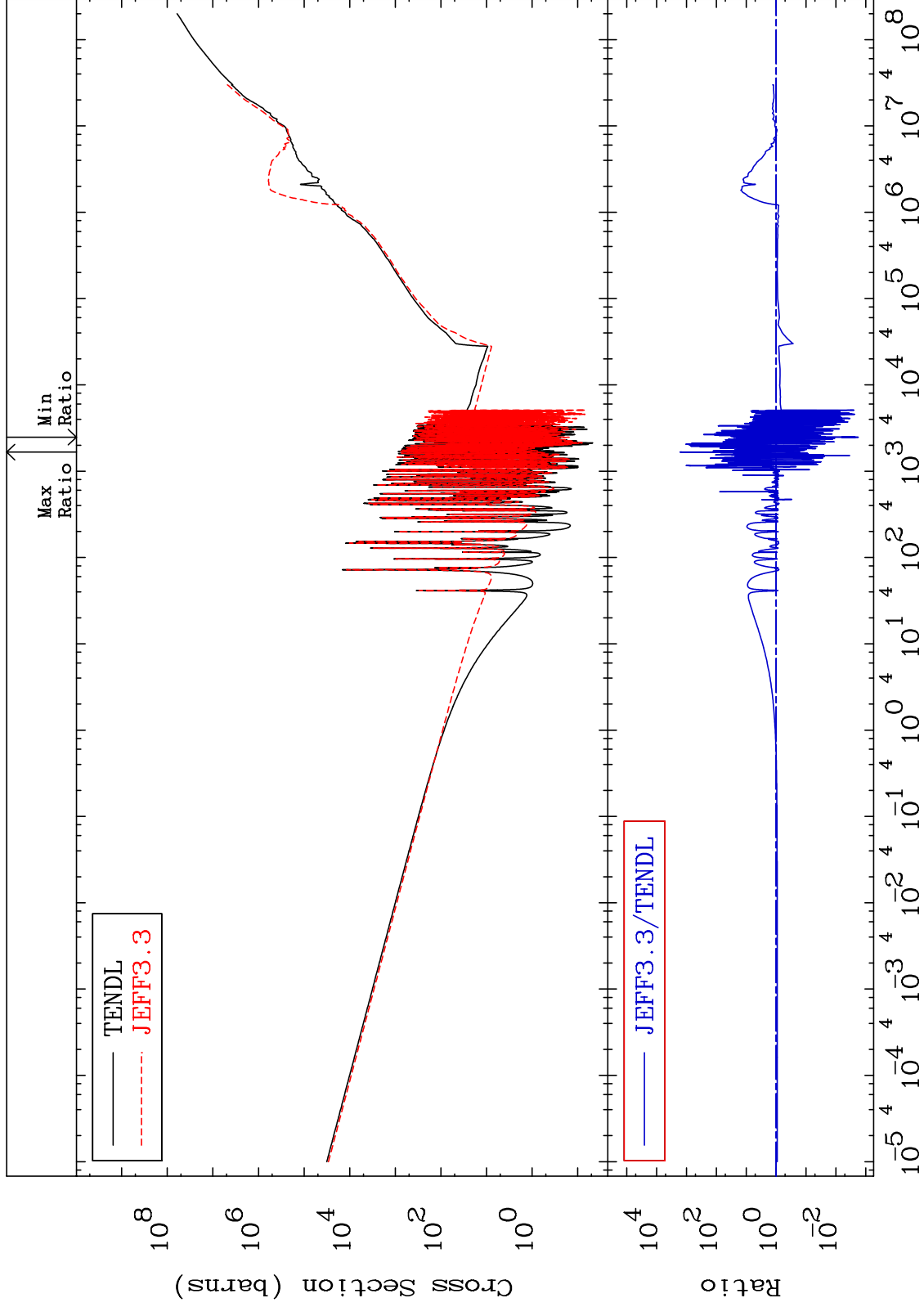
Incident Energy (eV)

53-I -129

MAT 5331

Kerma non-elastic (all but mt2)  
Cross Section

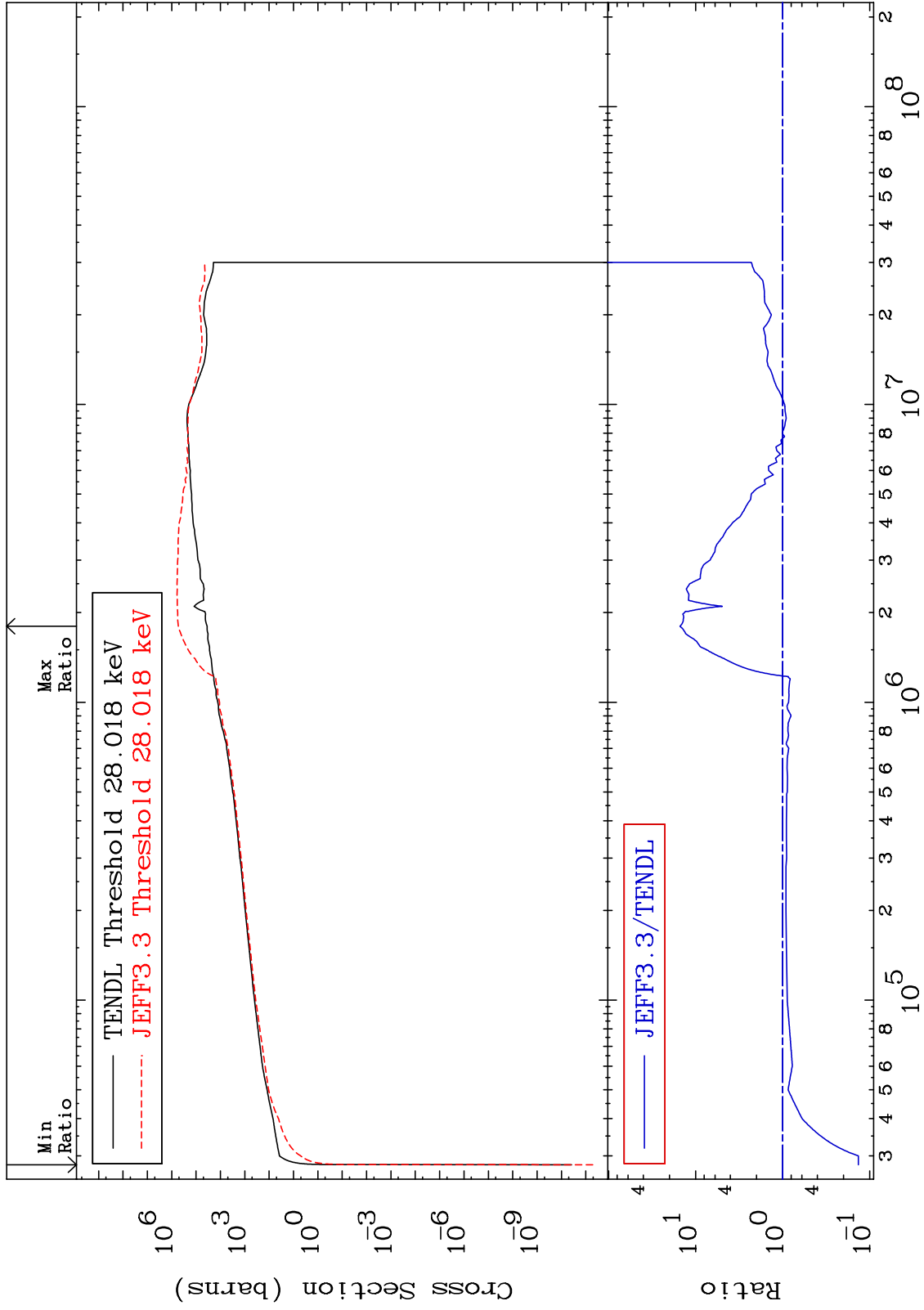
53-I -129  
-99.82 To 9999. %



53

Incident Energy (eV)

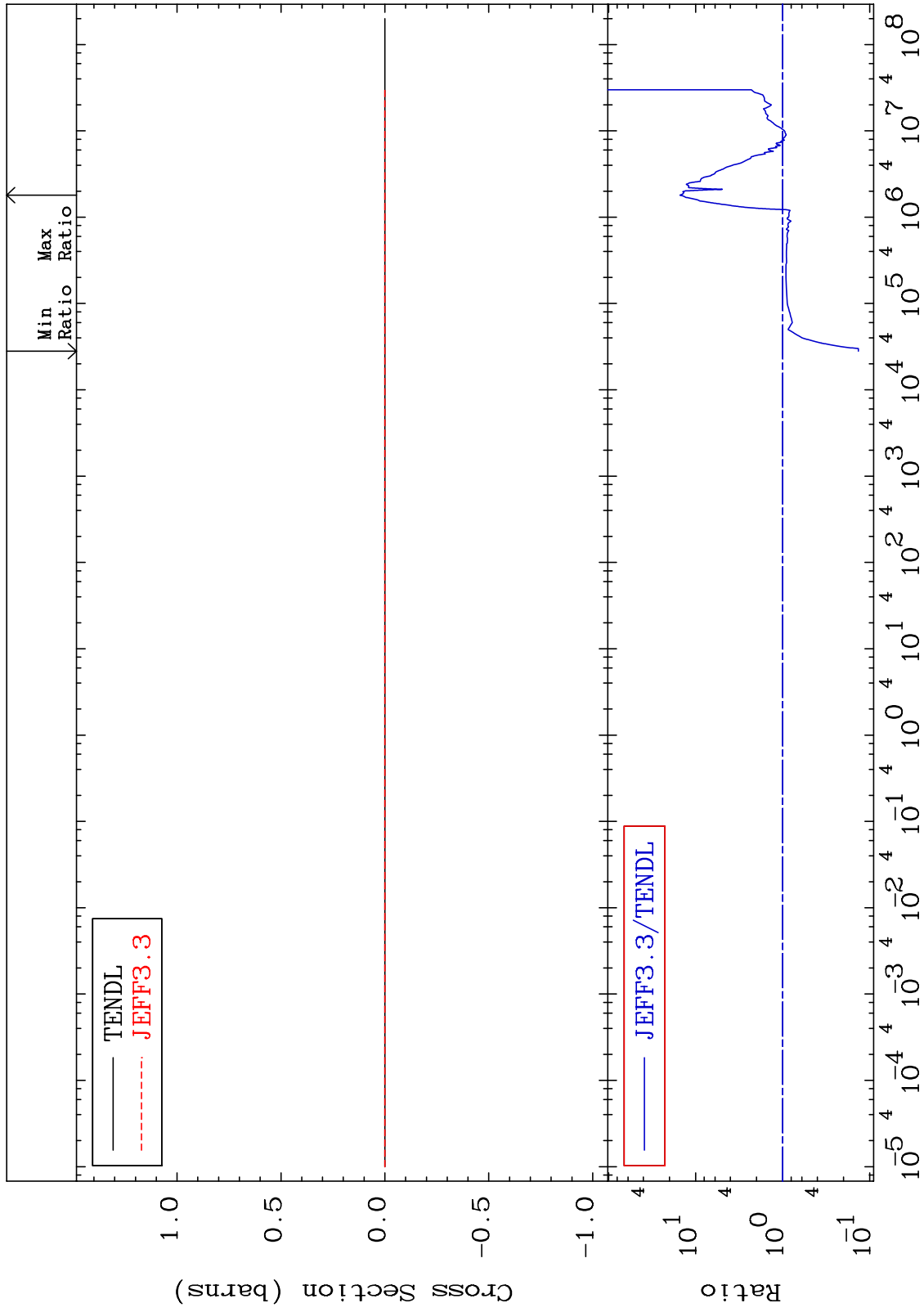
53-I -129



MAT 5331

Kerma fission (mt18 or mt19-20-21-38)  
Cross Section

53-I -129  
-86.55 To 1414. %



55

Incident Energy (eV)

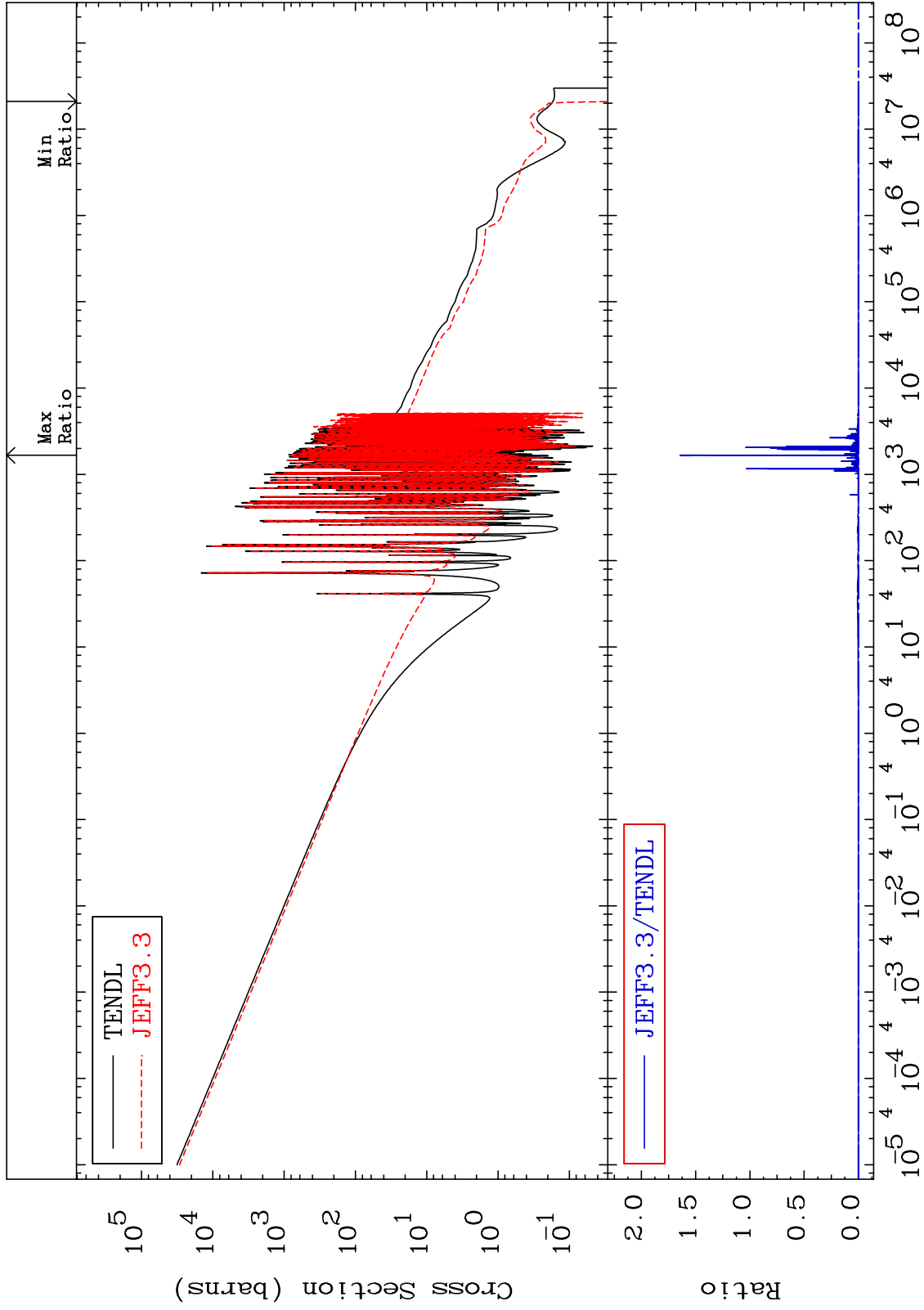
53-I -129



MAT 5331

Kerma capture (mt102)  
Cross Section

53-I -129  
-100.0 To 9999. %



56

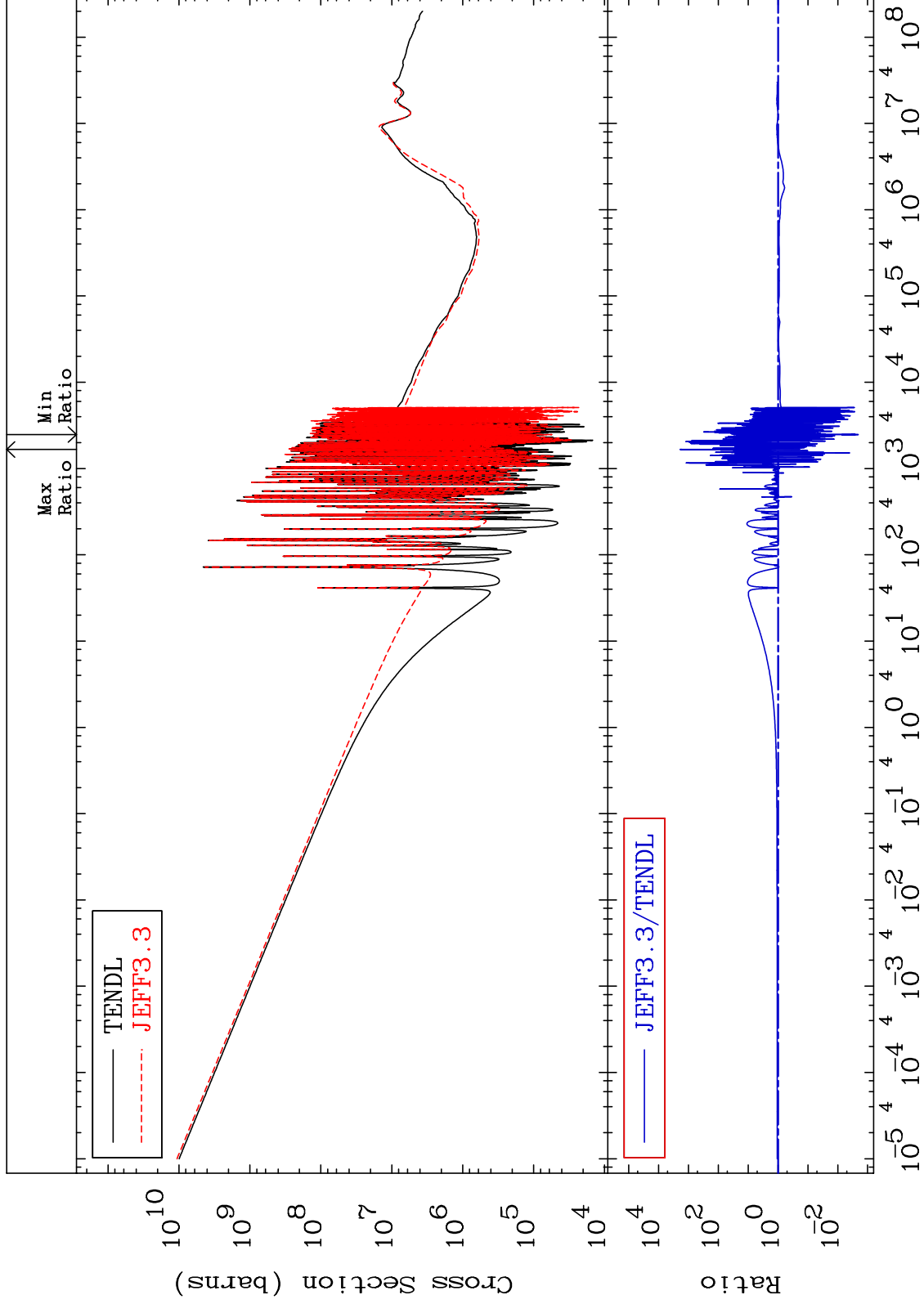
Incident Energy (eV)

53-I -129

MAT 5331

Total photon (eV-barns)  
Cross Section

53-I -129  
-99.80 To 9999. %



57

Incident Energy (eV)

53-I -129

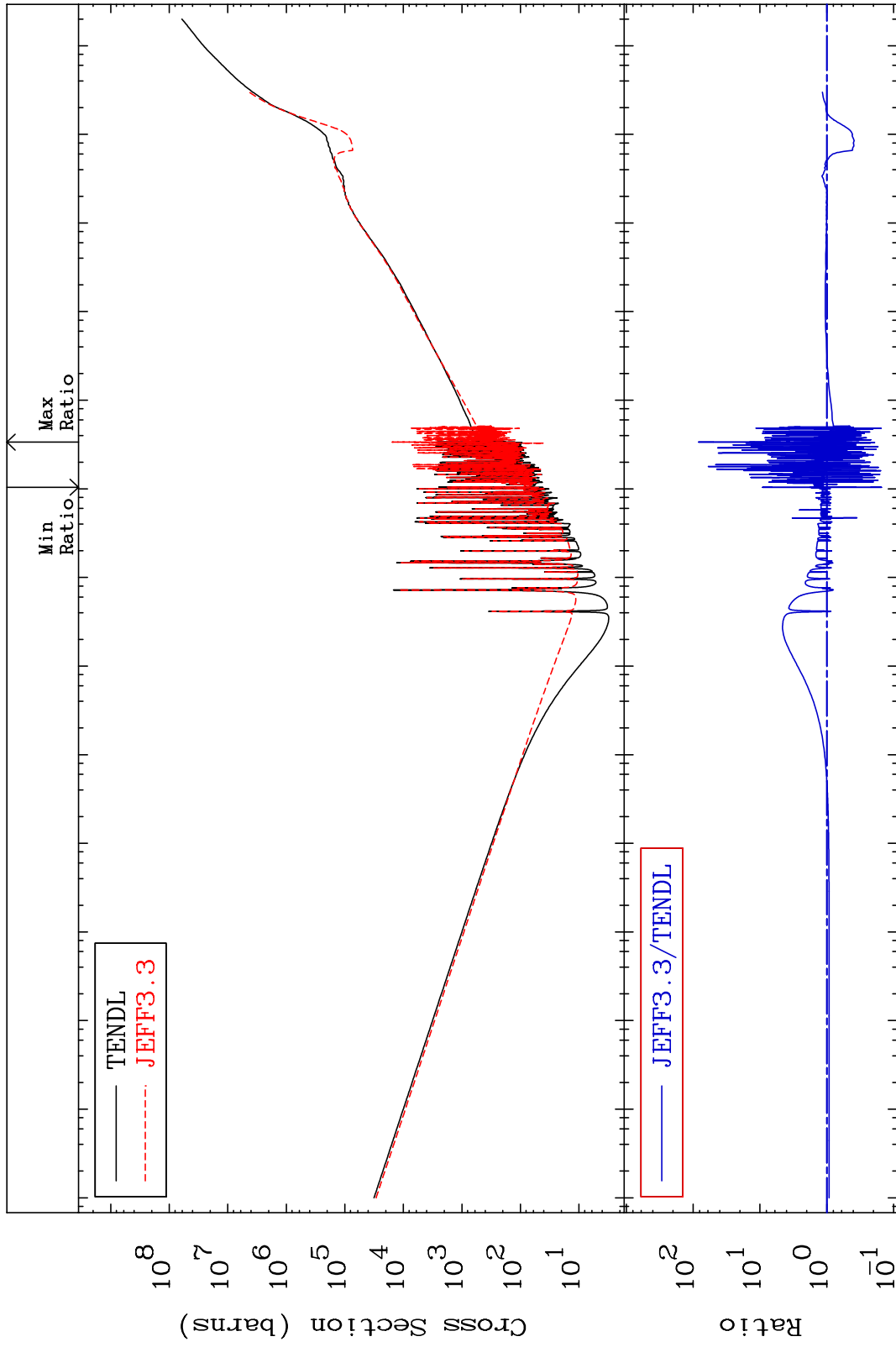
MAT 5331

Total kinematic kerma (high limit)

53-I -129

-84.84 To 8256. %

Cross Section



58

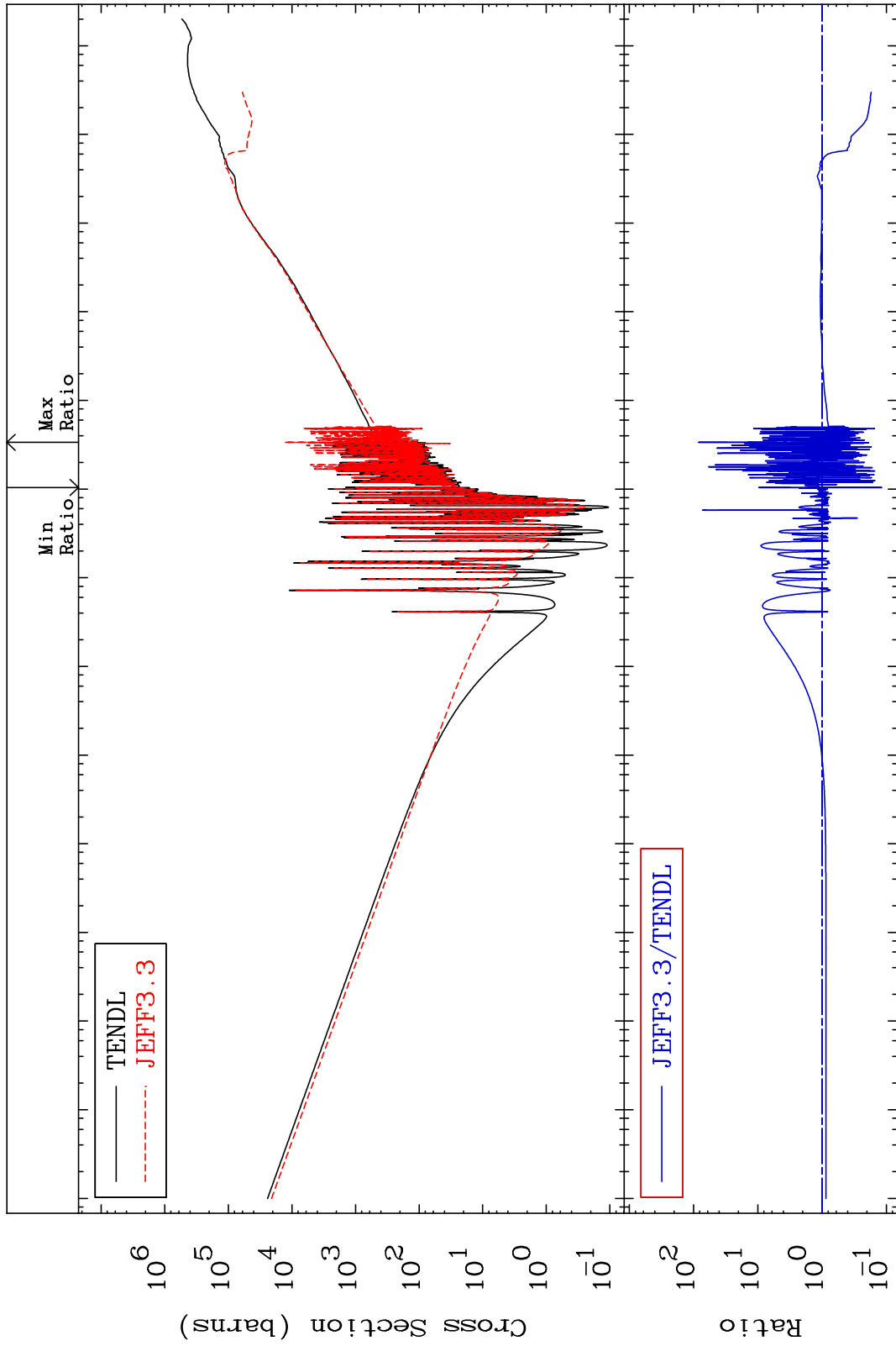
Incident Energy (eV)

53-I -129

MAT 5331

Dpa total (eV-barns)  
Cross Section

53-I -129  
-88.14 To 8305. %



59

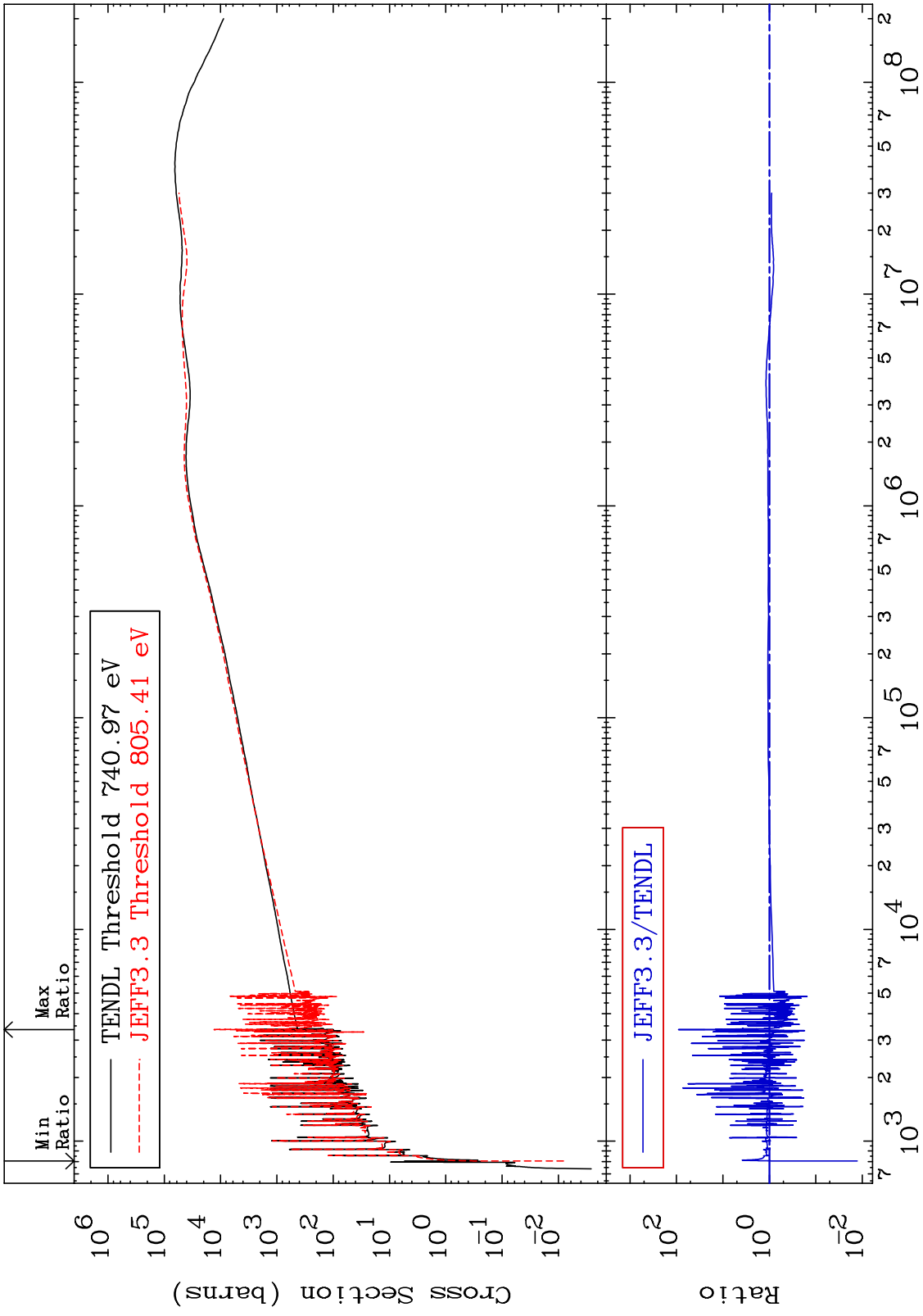
Incident Energy (eV)

53-I -129

MAT 5331

Dpa elastic (mt2)  
Cross Section

53-I -129  
-98.72 To 8865. %



60

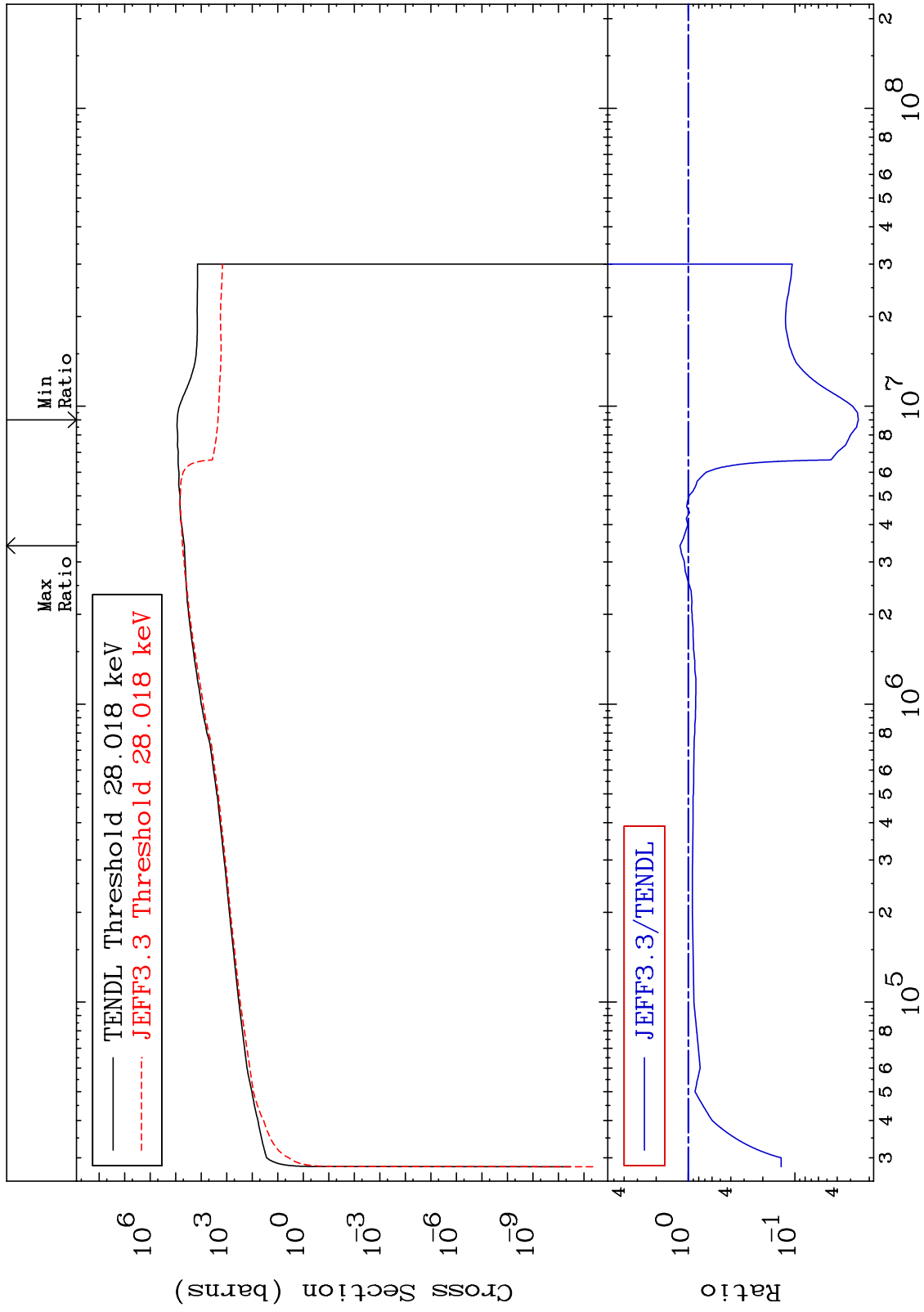
Incident Energy (eV)

53-I -129

MAT 5331

Dpa inelastic (mt51-91)  
Cross Section

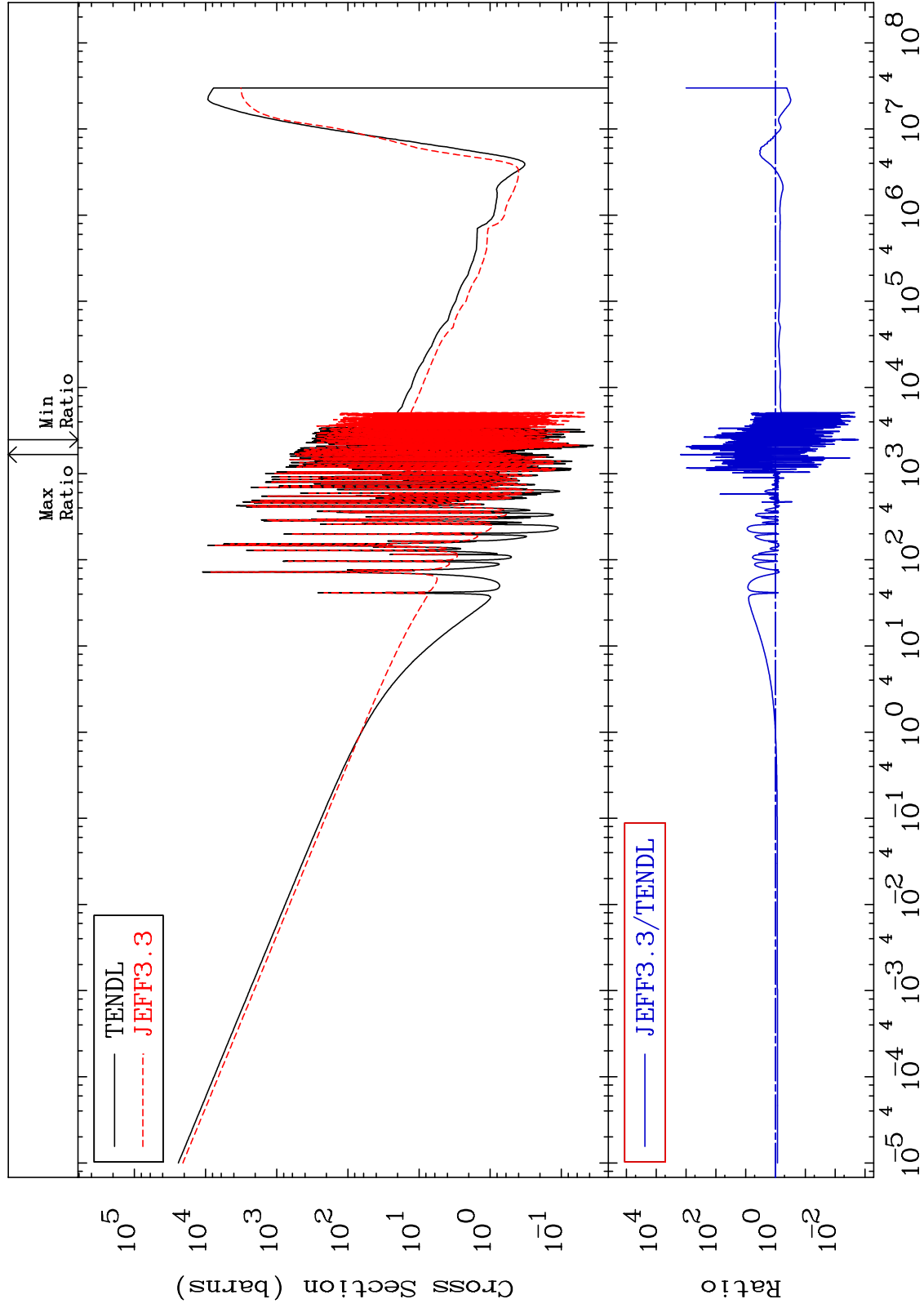
53-I -129  
-97.47 To 19.59 %



MAT 5331

Dpa disappearance (mt102 -120)  
Cross Section

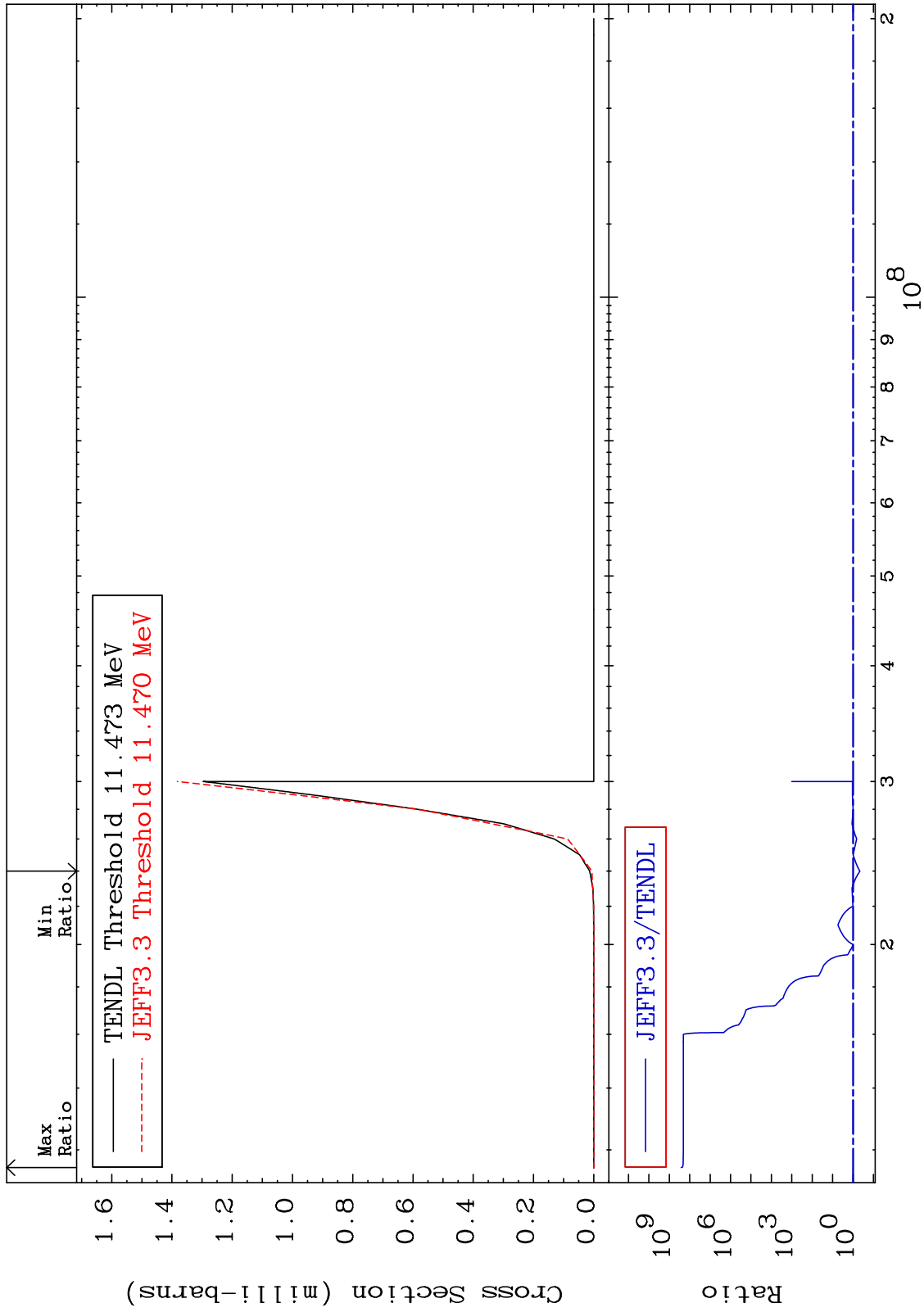
53-I -129  
-99.84 To 9999. %



62

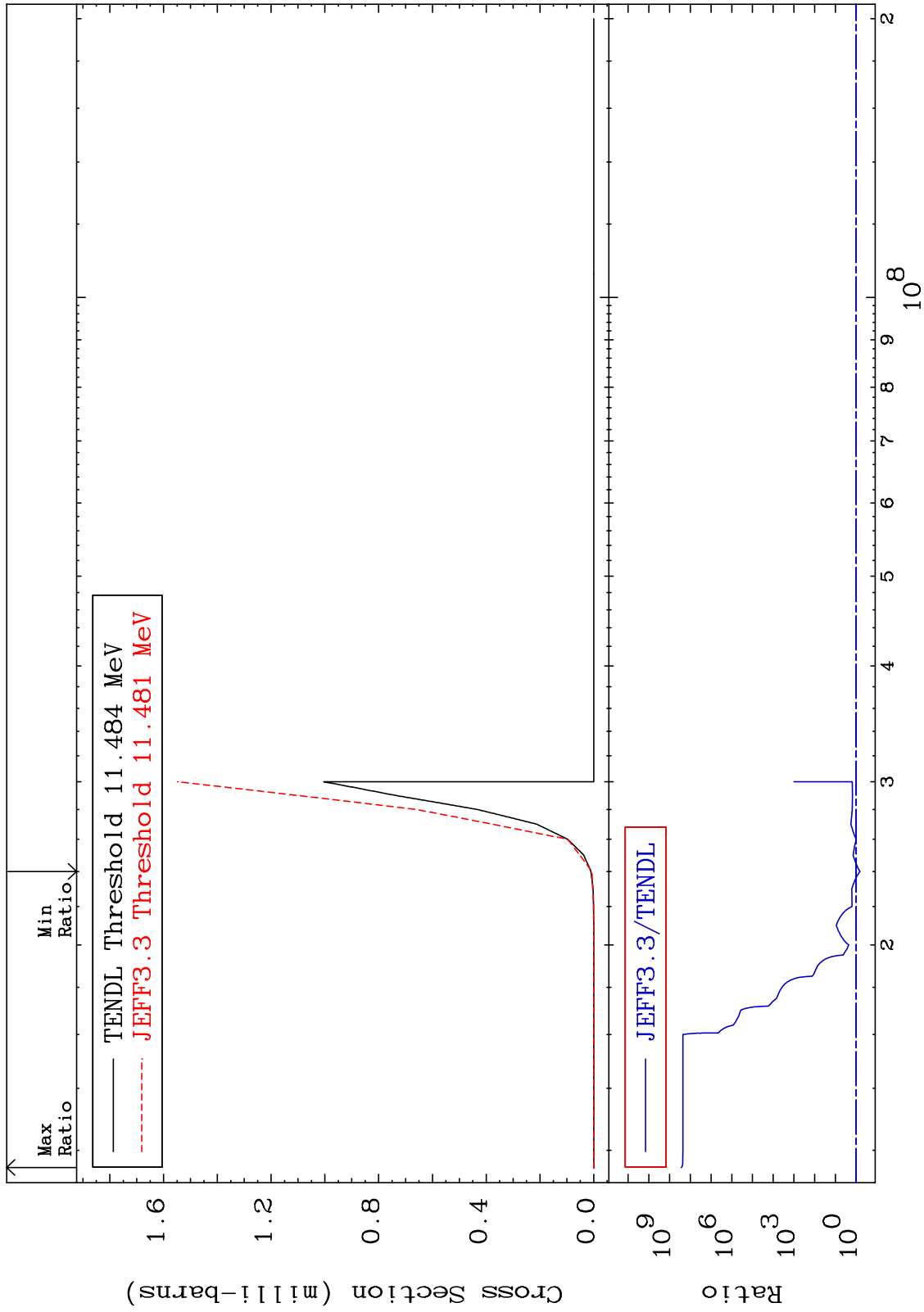
Incident Energy (eV)

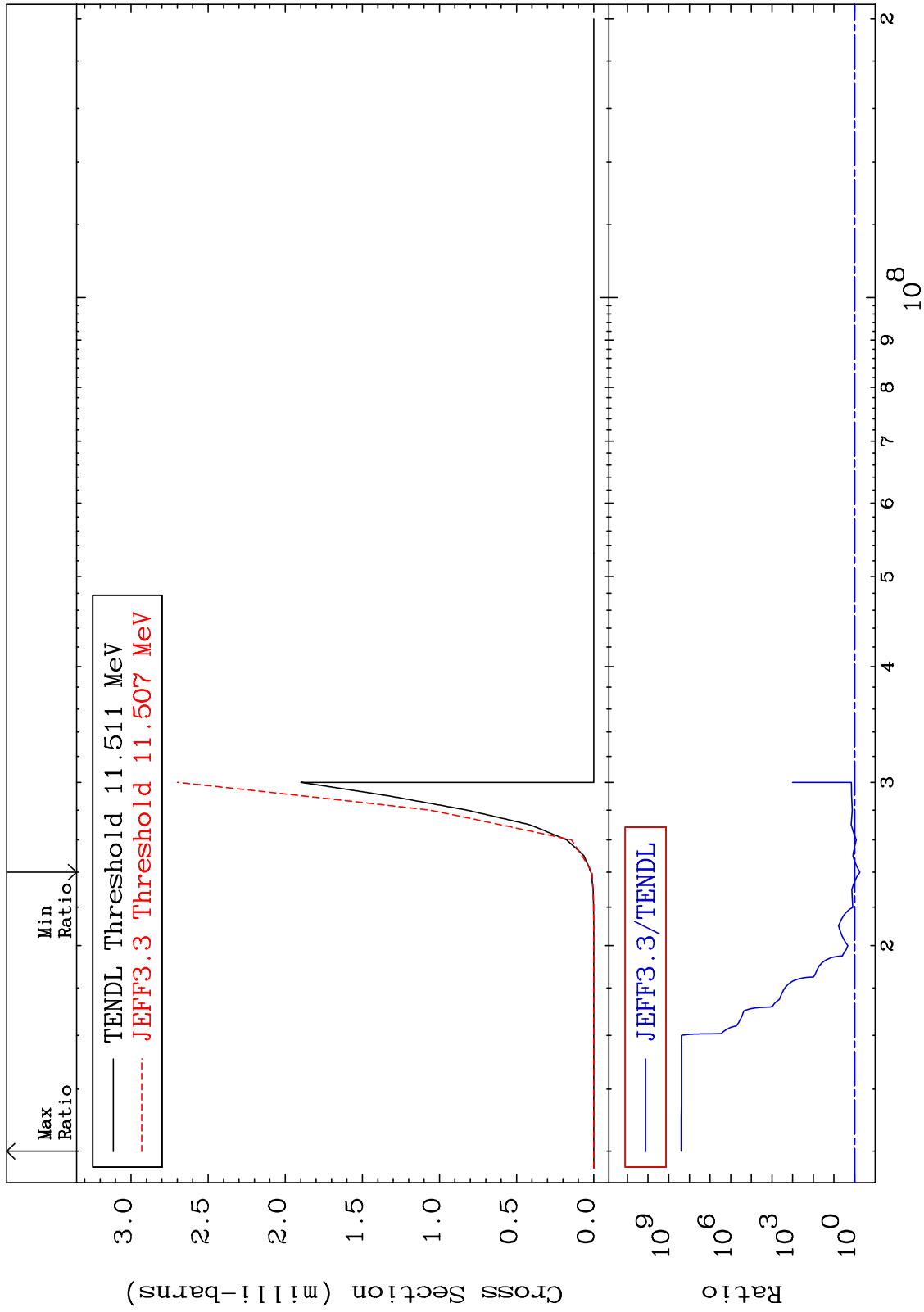
53-I -129

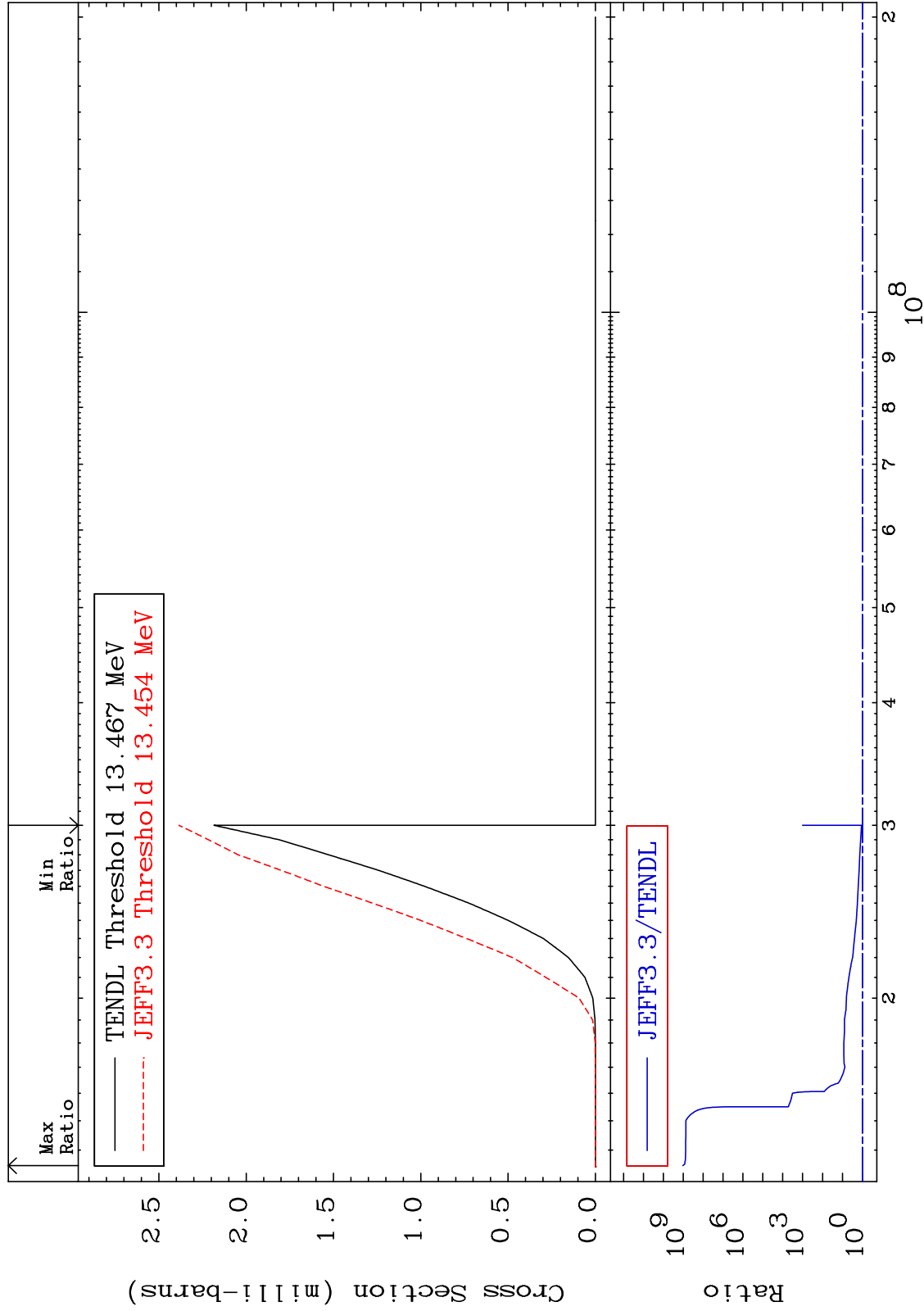




Radionuclide Production Cross Section -34.81 To 9999. %





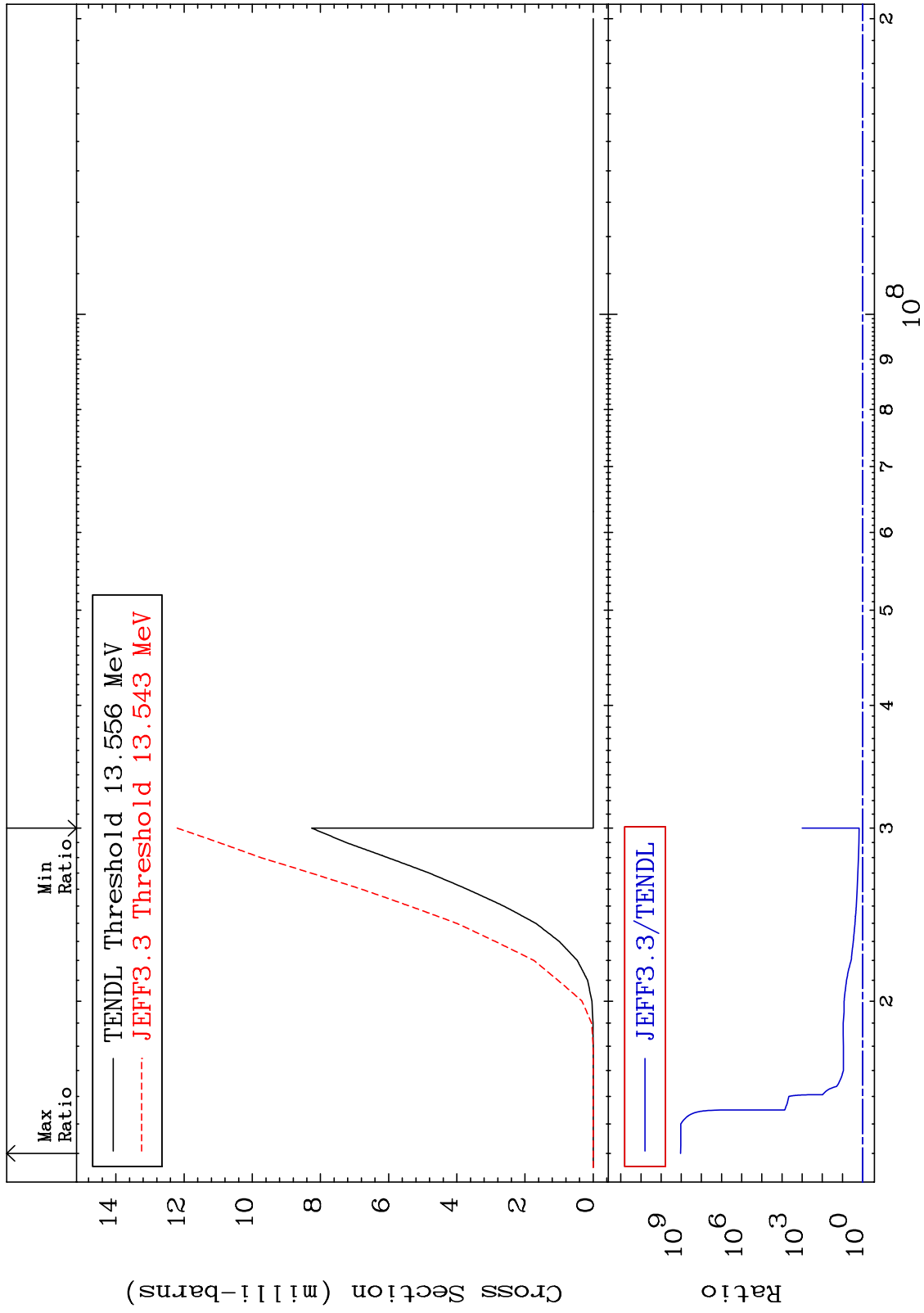


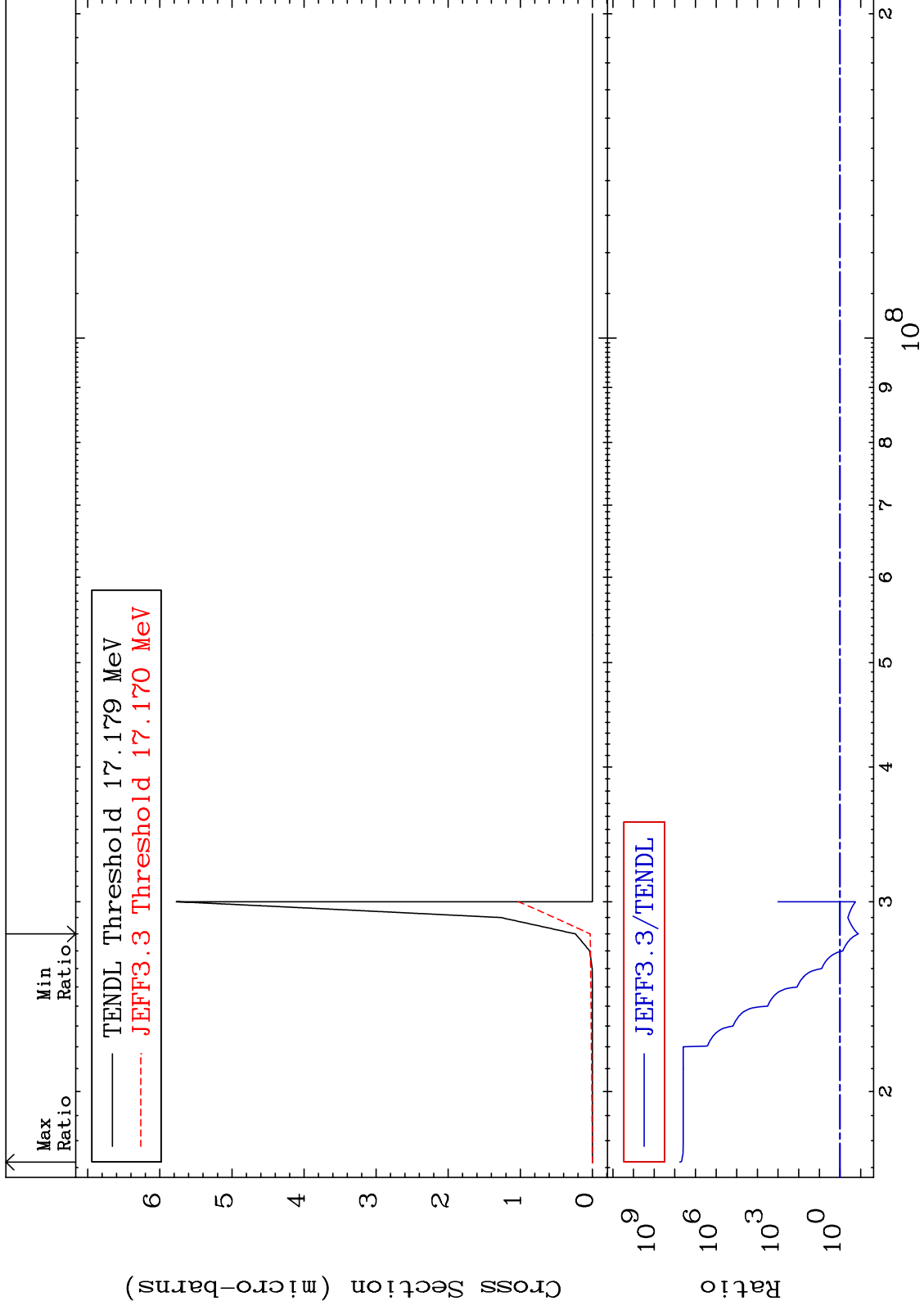
MAT 5331

(n, n') d:52-Te-127m2

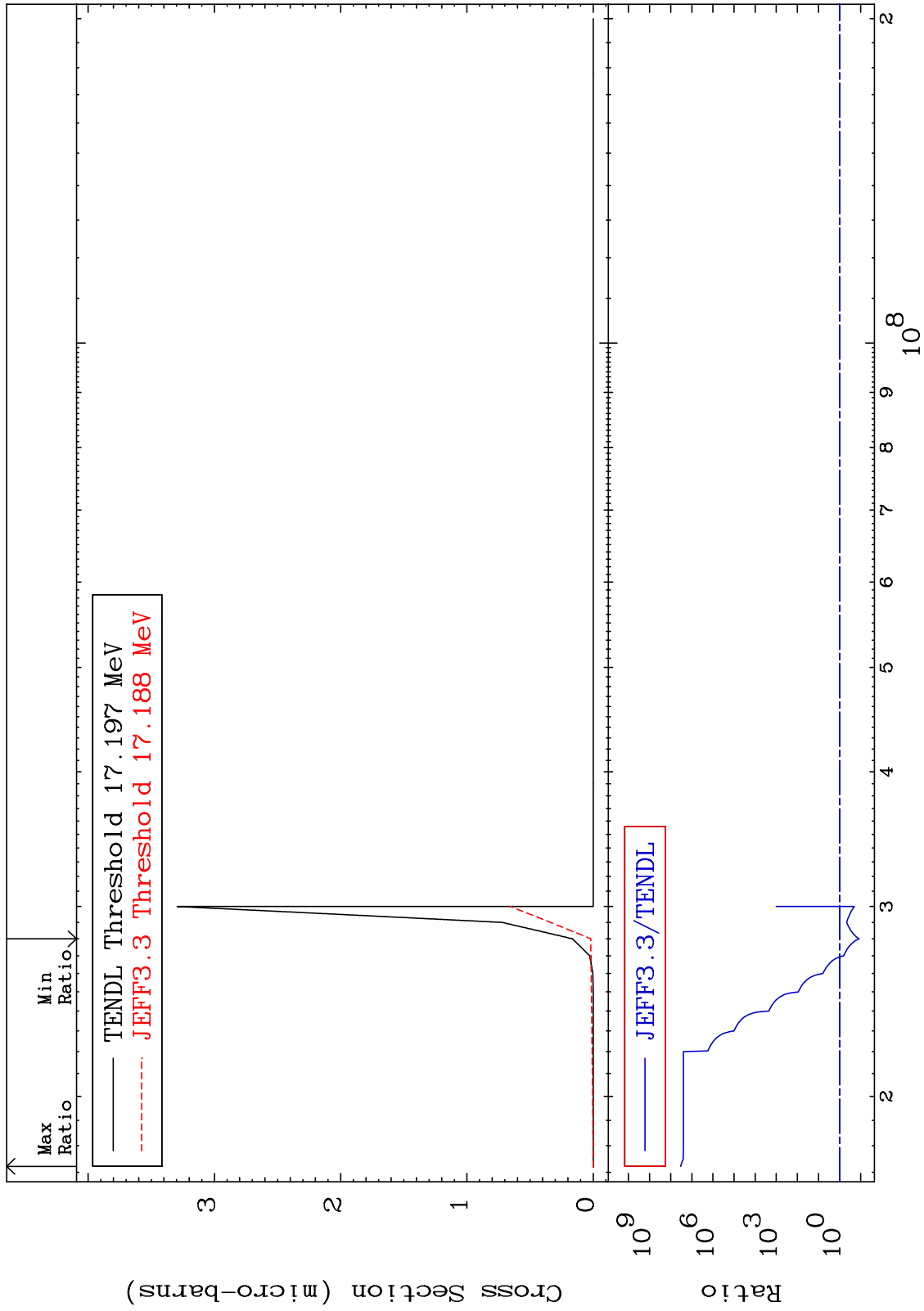
53-I -129

Radionuclide Production Cross Section 47.72 To 9999. %

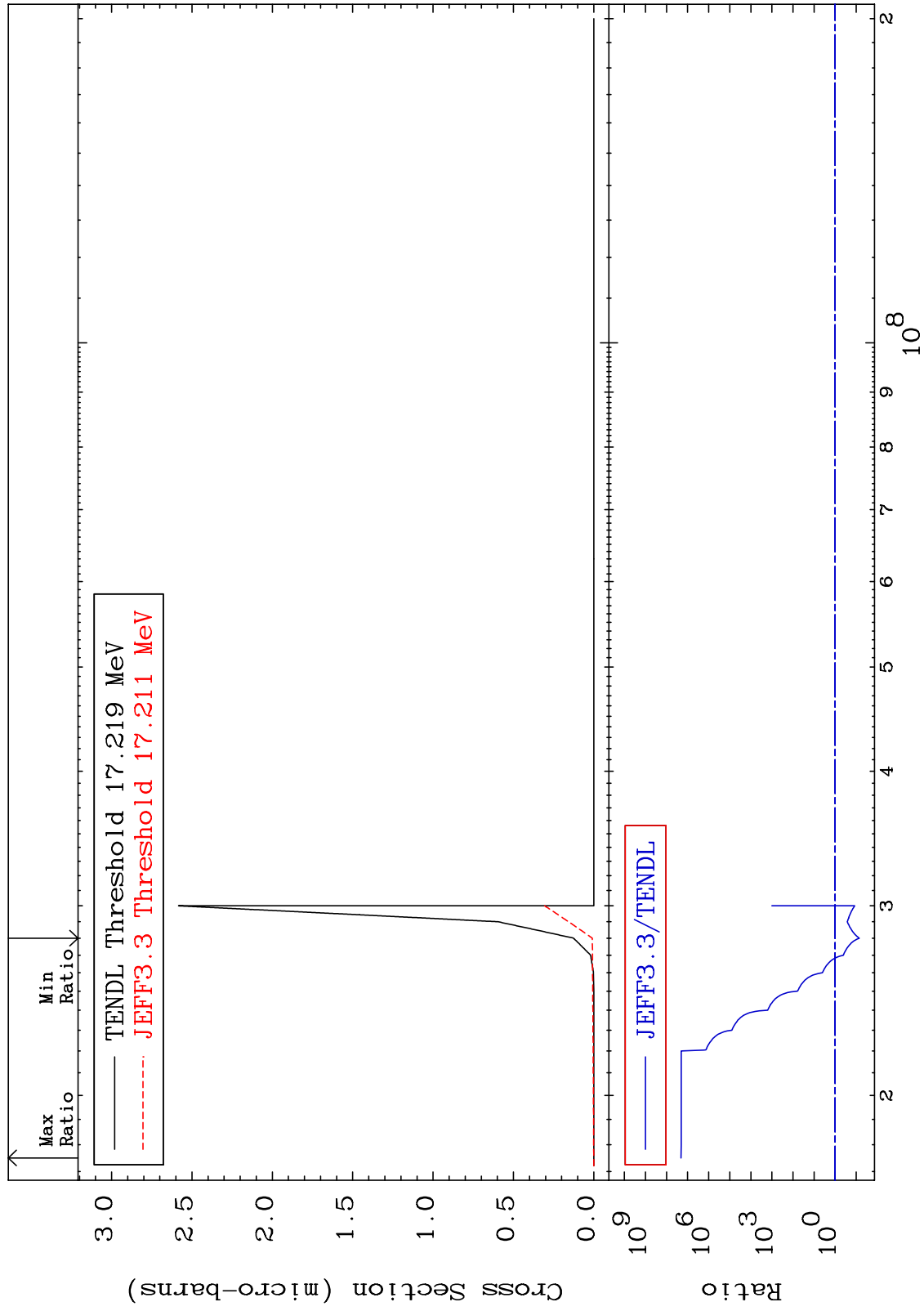


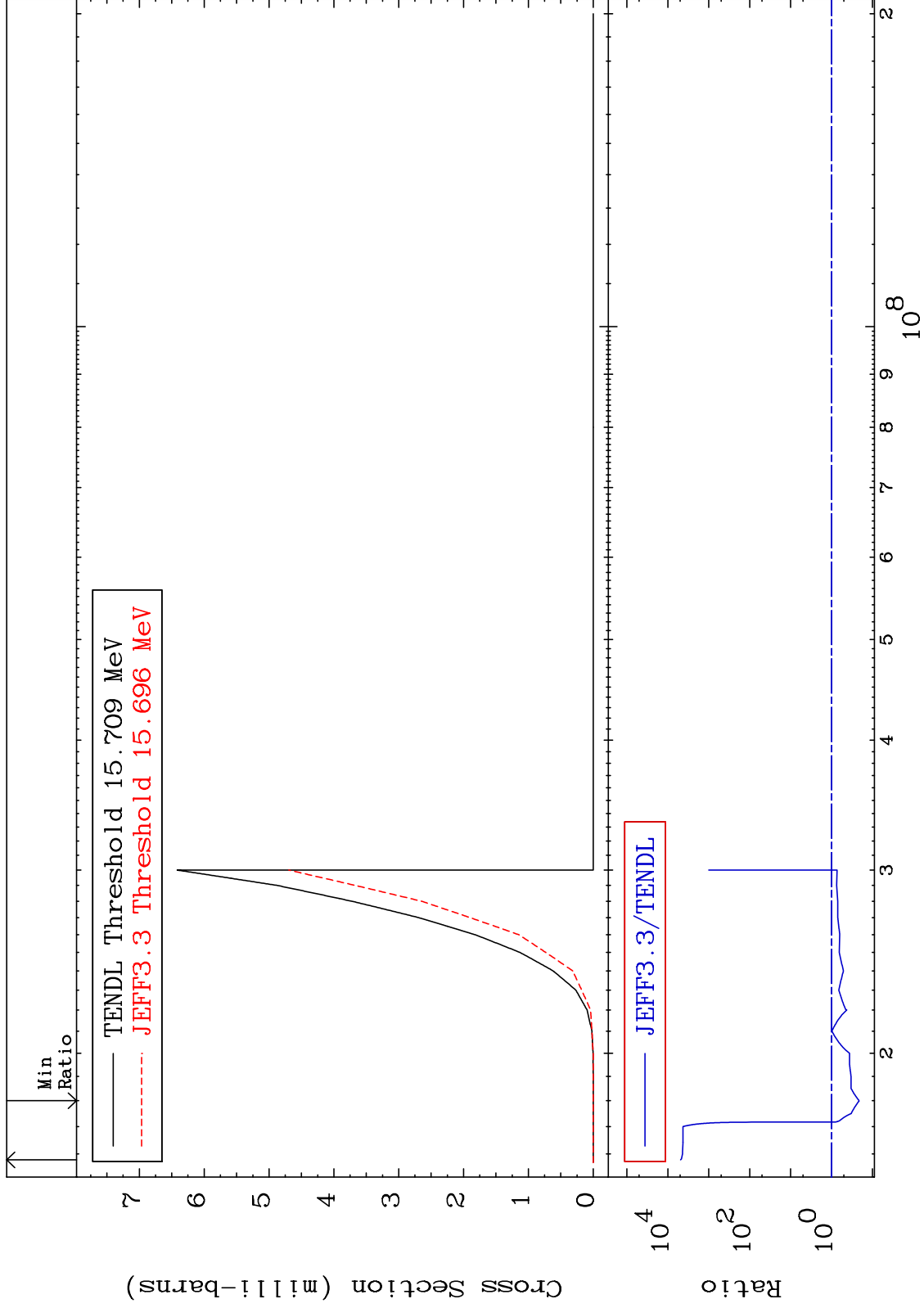


Radionuclide Production Cross Section -88.15 To 9999. %

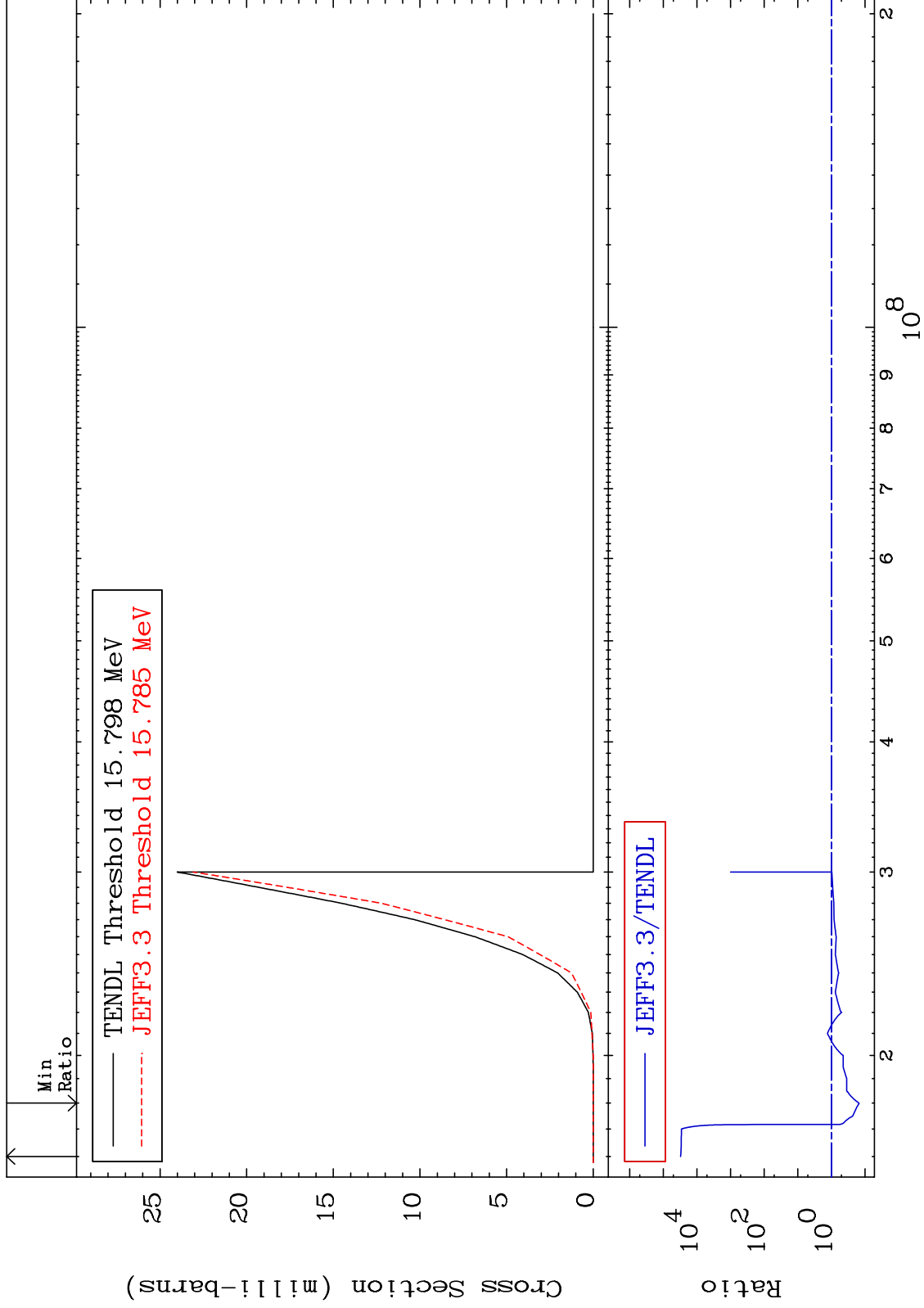


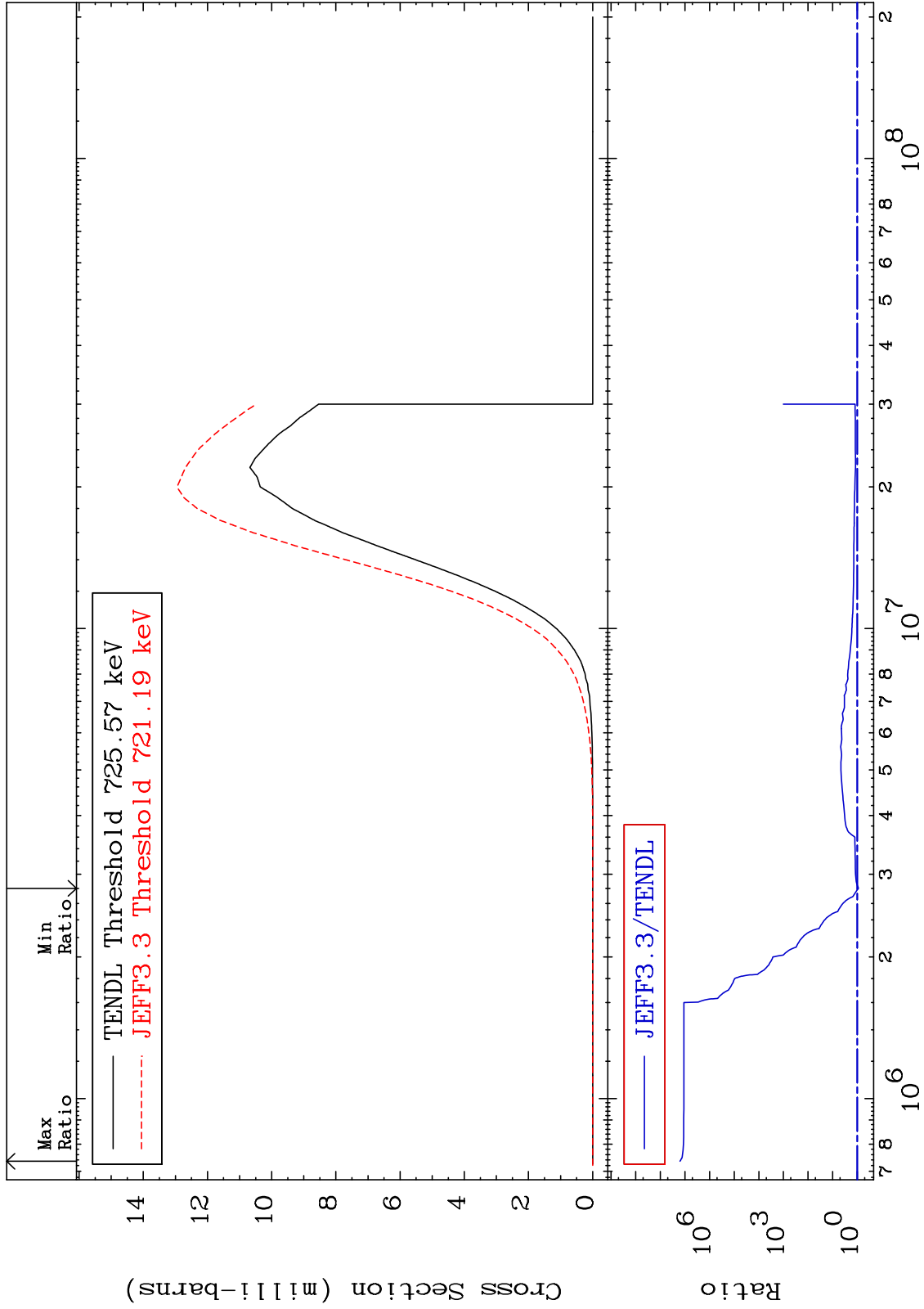
Radionuclide Production Cross Section -92.85 To 9999. %









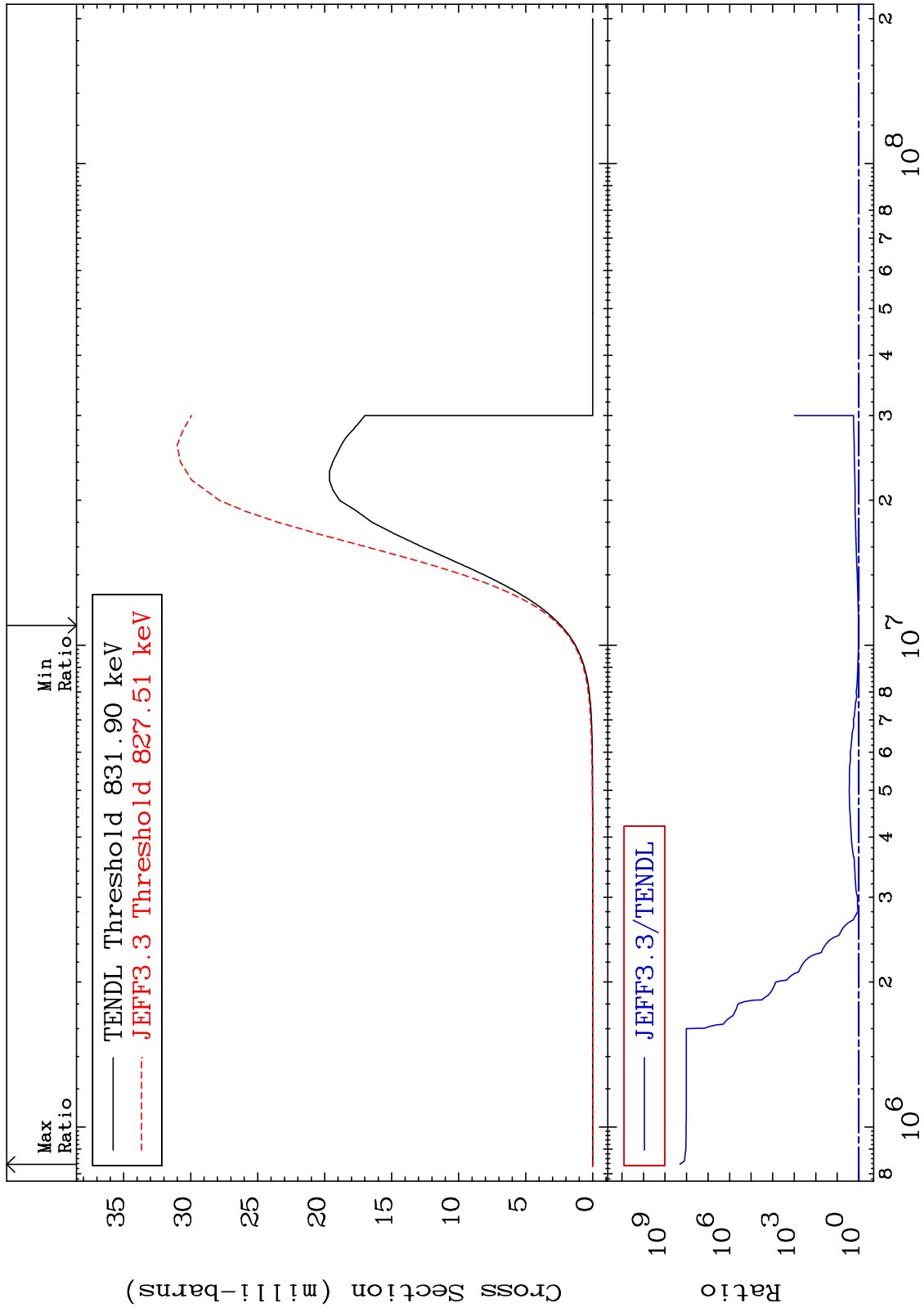


MAT 5331

(n, p) : 52-Te-129m1

53-I -129

Radionuclide Production Cross Section 4.523 To 9999. %



74

Incident Energy (eV)

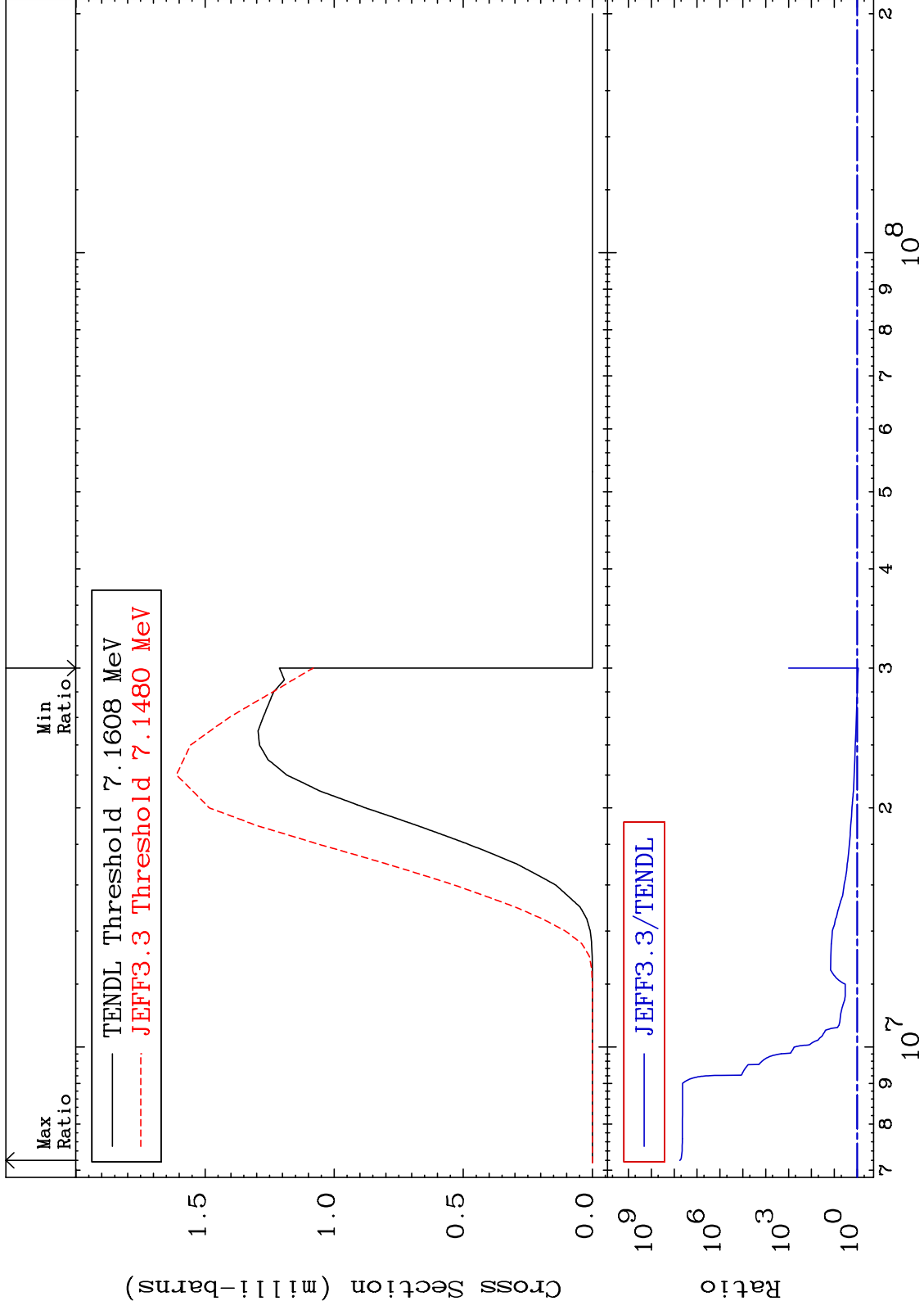
53-I -129

MAT 5331

53-I -129

(n, t):52-Te-127g

Radionuclide Production Cross Section -10.81 To 9999. %



75

Incident Energy (eV)

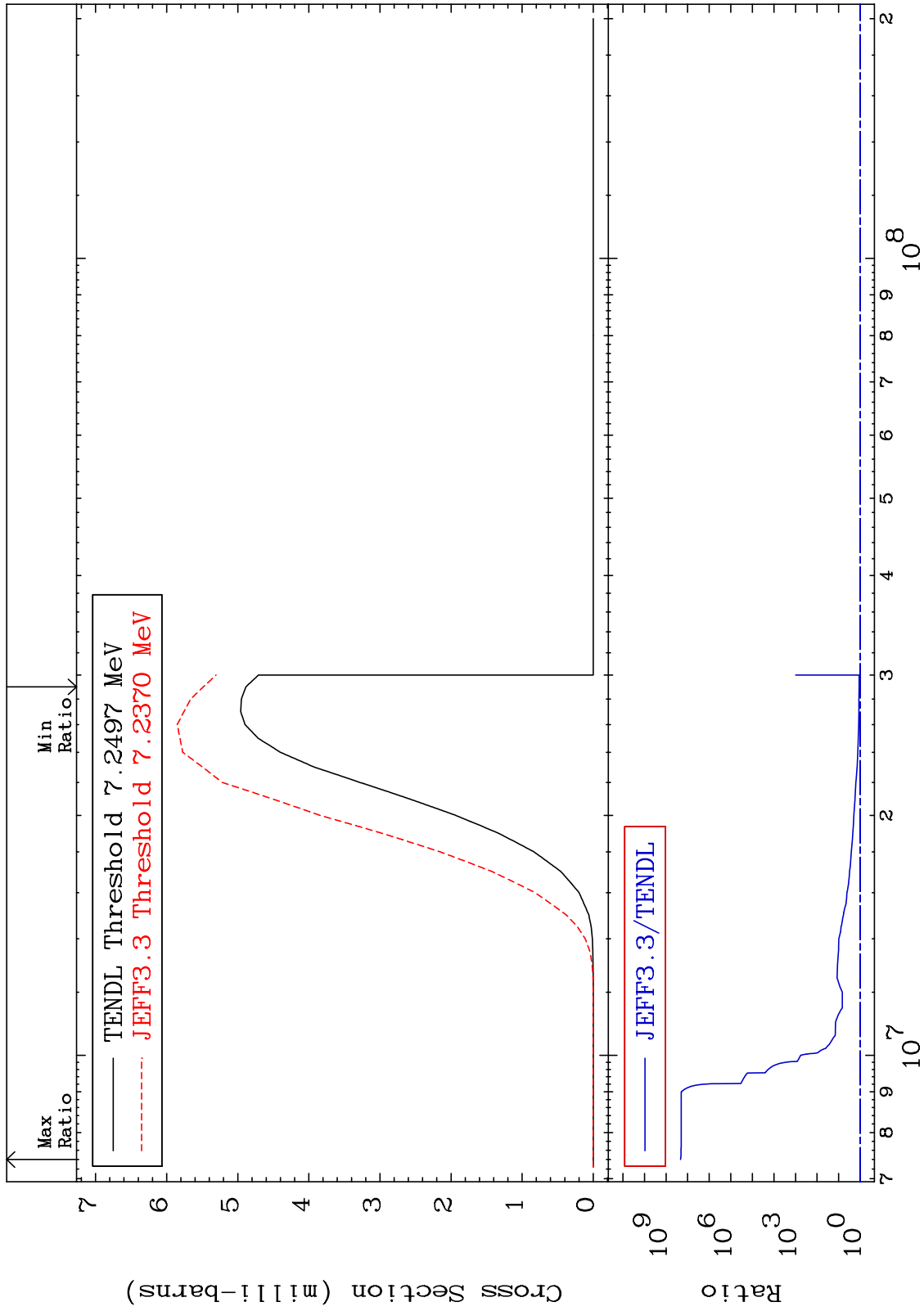
53-I -129

MAT 5331

(n, t):52-Te-127m2

53-I -129

Radionuclide Production Cross Section 12.25 To 9999. %



76

Incident Energy (eV)

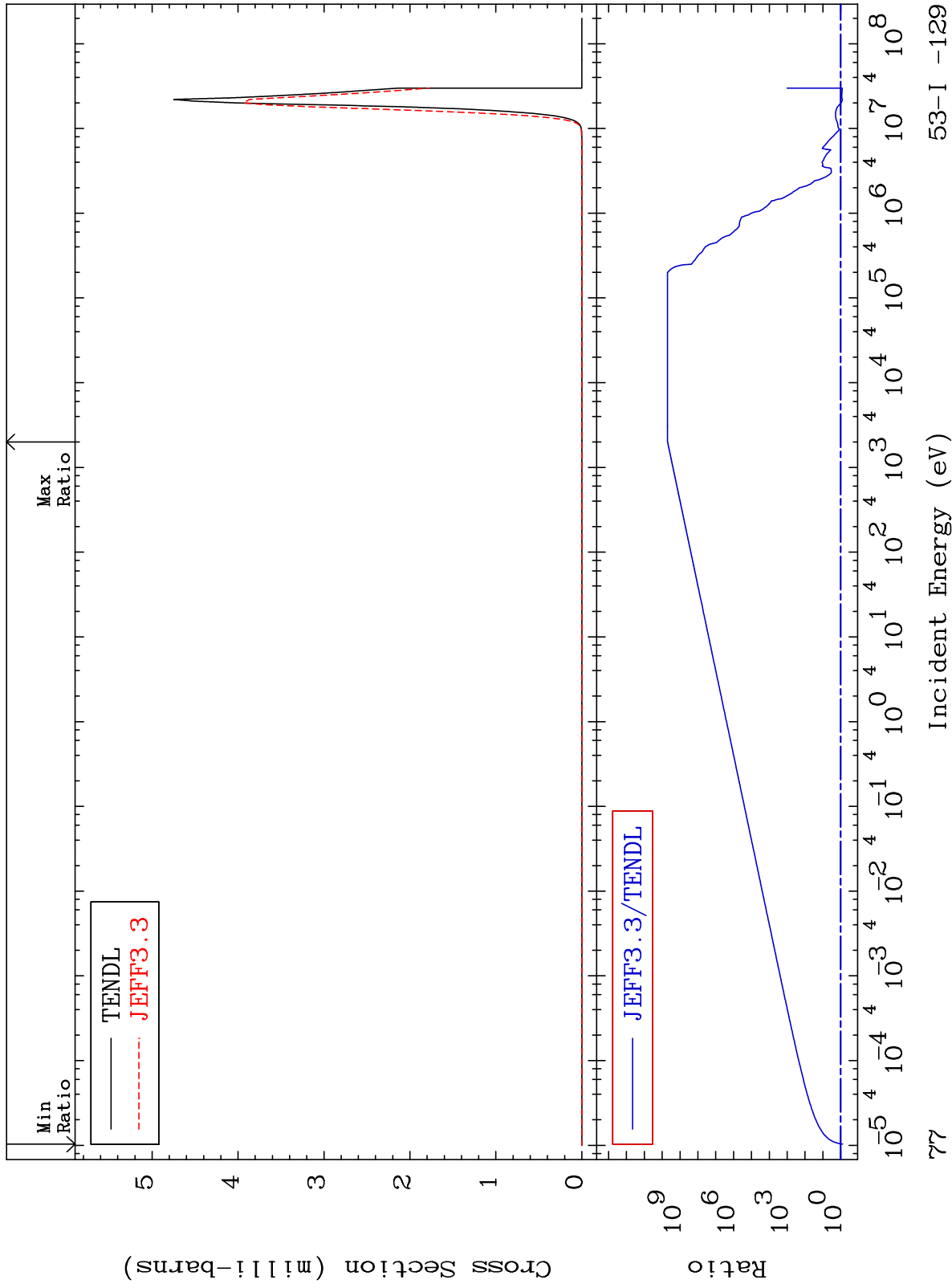
53-I -129

MAT 5331

(n,  $\alpha$ ):51-Sb-126g

53-I -129

Radionuclide Production Cross Section -21.88 To 9999. %

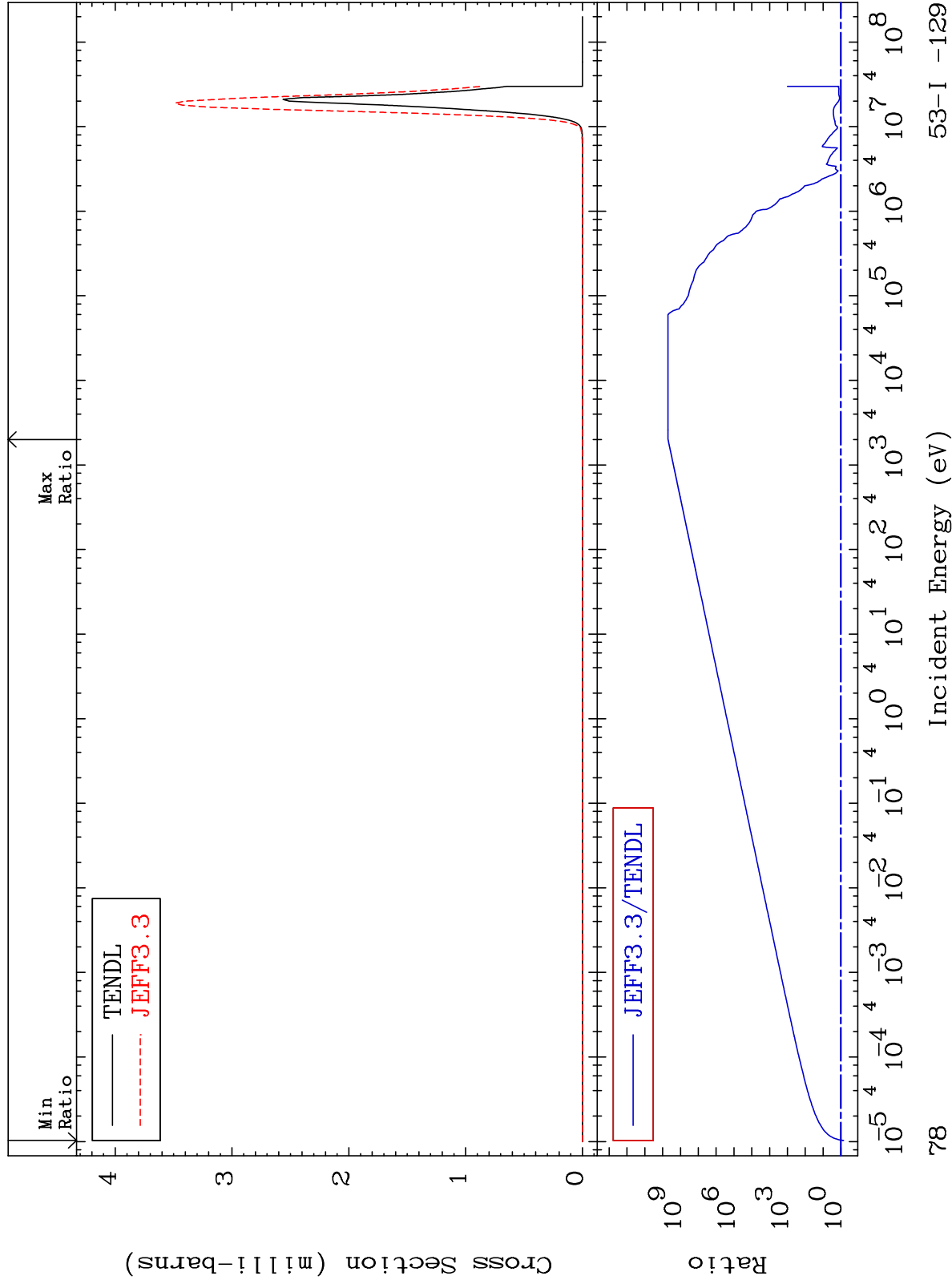


MAT 5331

(n,  $\alpha$ ):51-Sb-126m1

53-I -129

Radionuclide Production Cross Section -21.88 To 9999. %

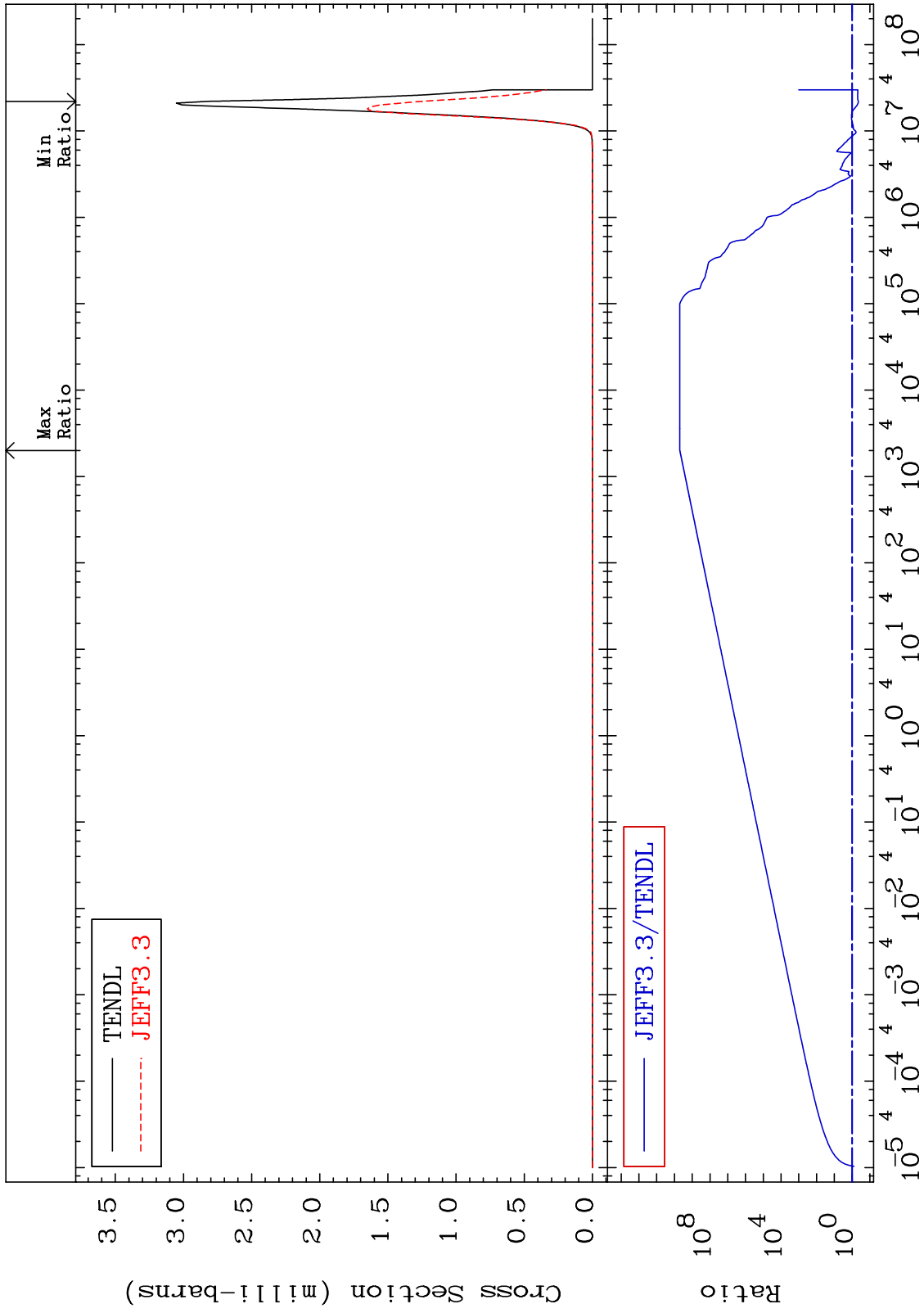


MAT 5331

(n,  $\alpha$ ):51-Sb-126m2

53-I -129

Radionuclide Production Cross Section -55.60 To 9999. %

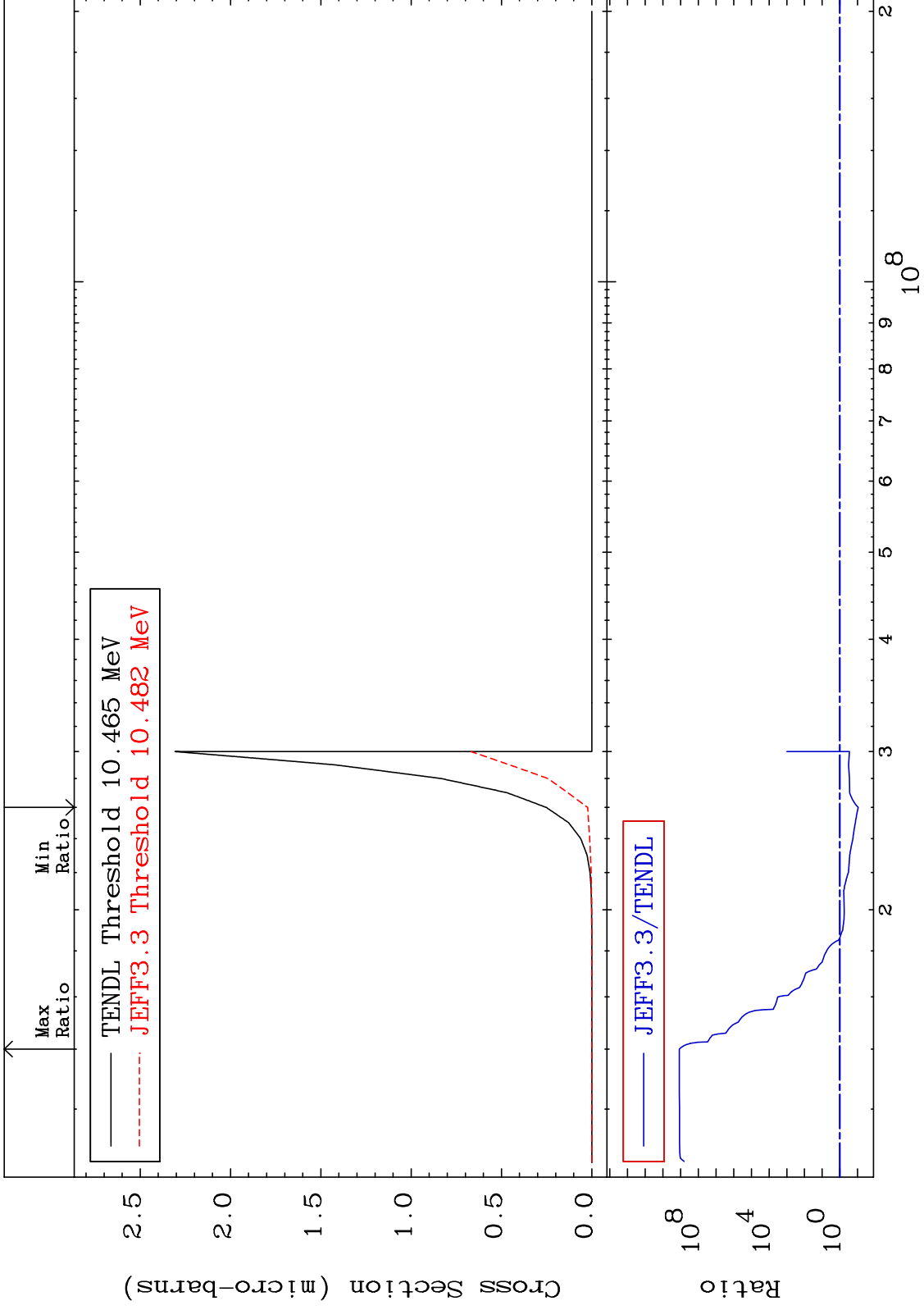


79

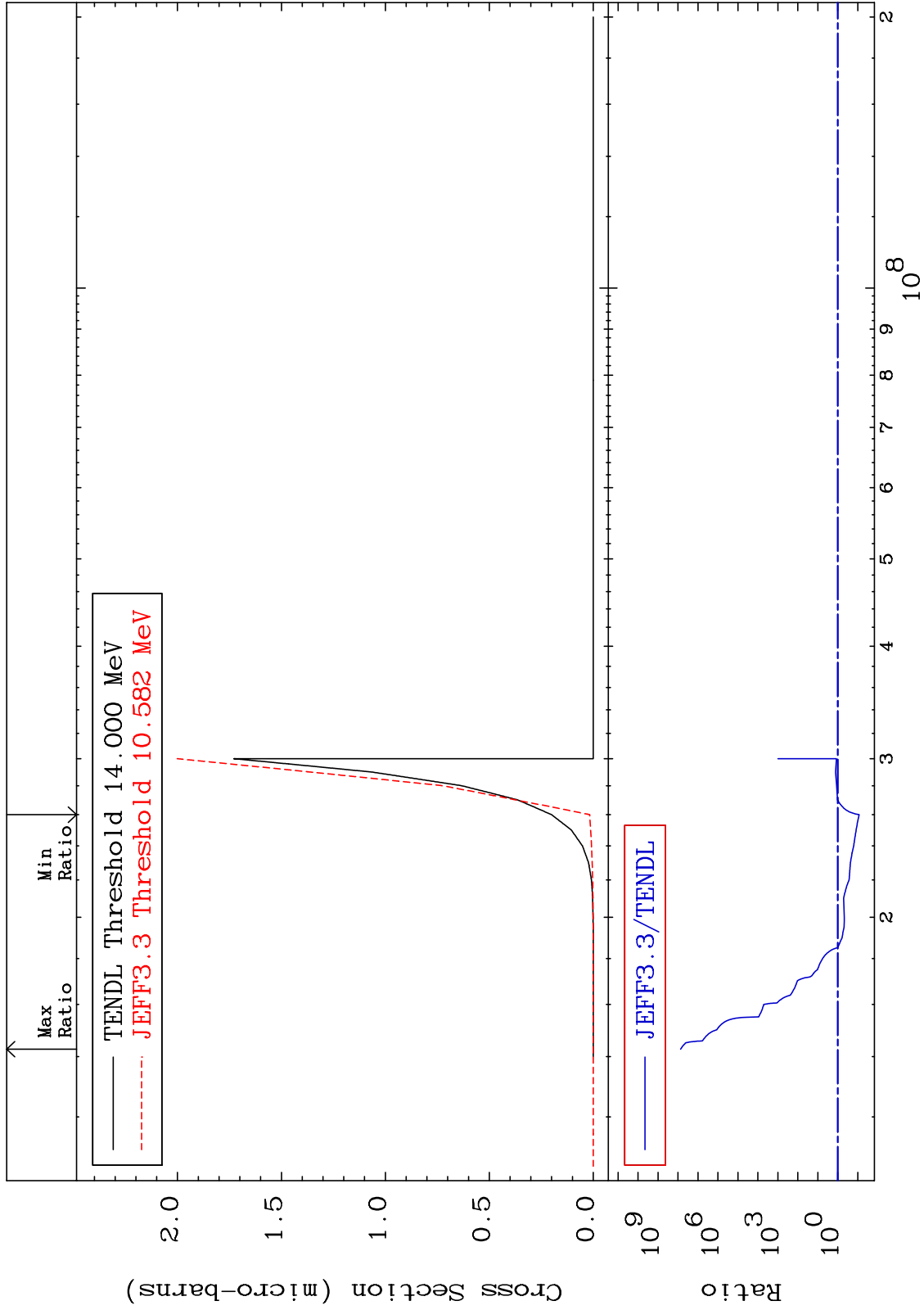
Incident Energy (eV)

53-I -129



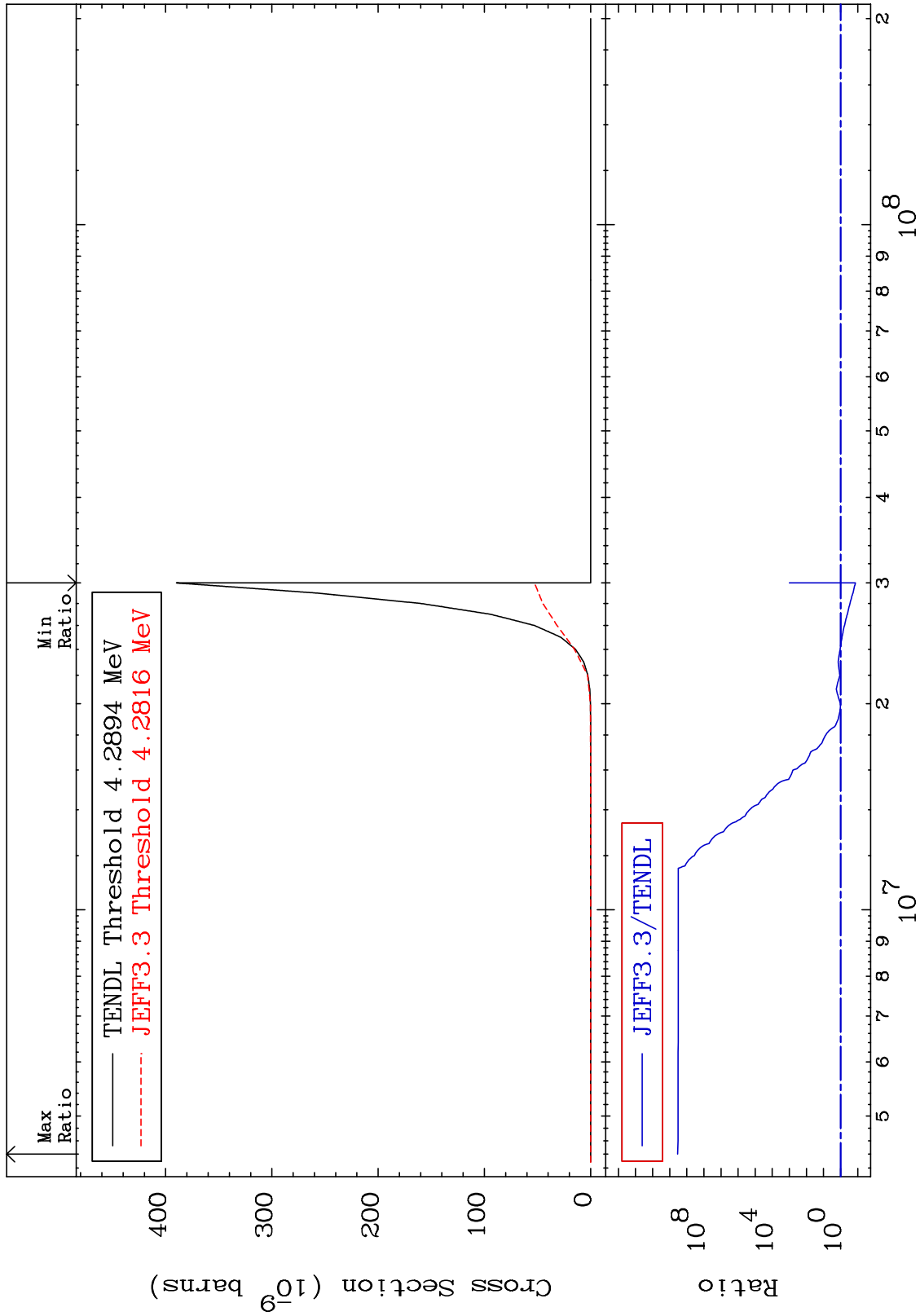


Radionuclide Production Cross Section -91.54 To 9999. %



MAT 5331

(n, p)  $\alpha$ :50-Sn-125g 53-I -129  
Radionuclide Production Cross Section -86.42 To 9999. %

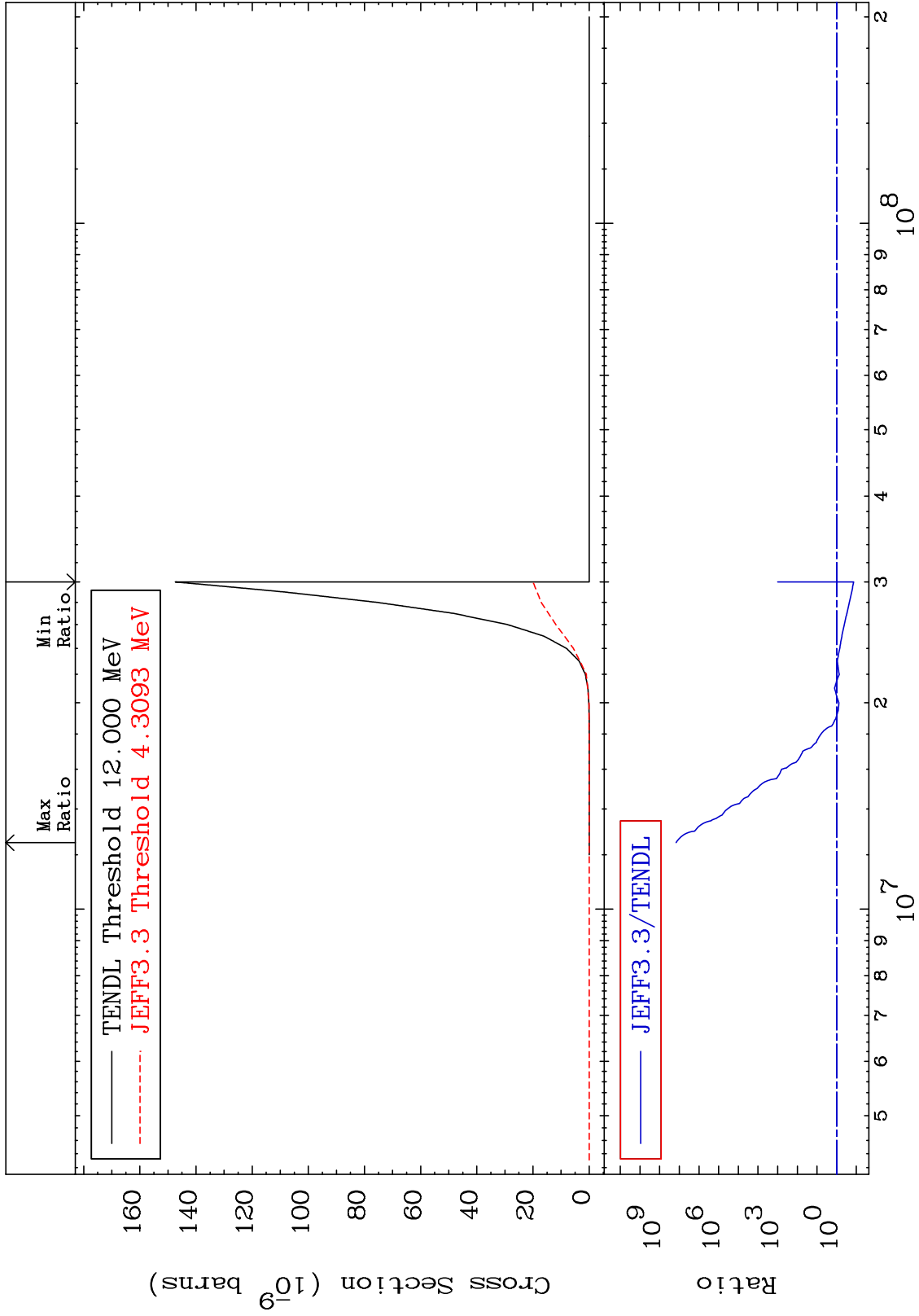


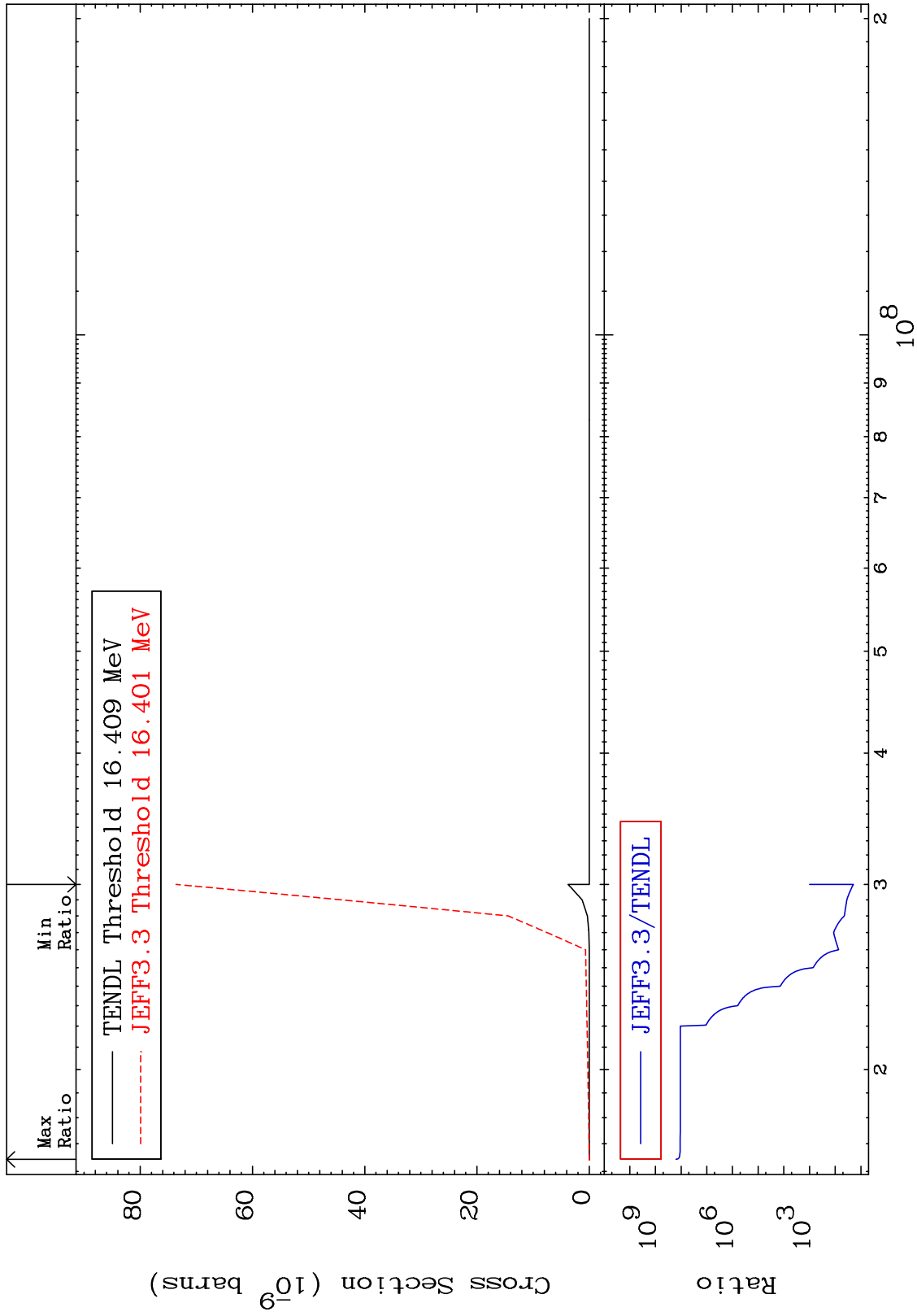
82

Incident Energy (eV)

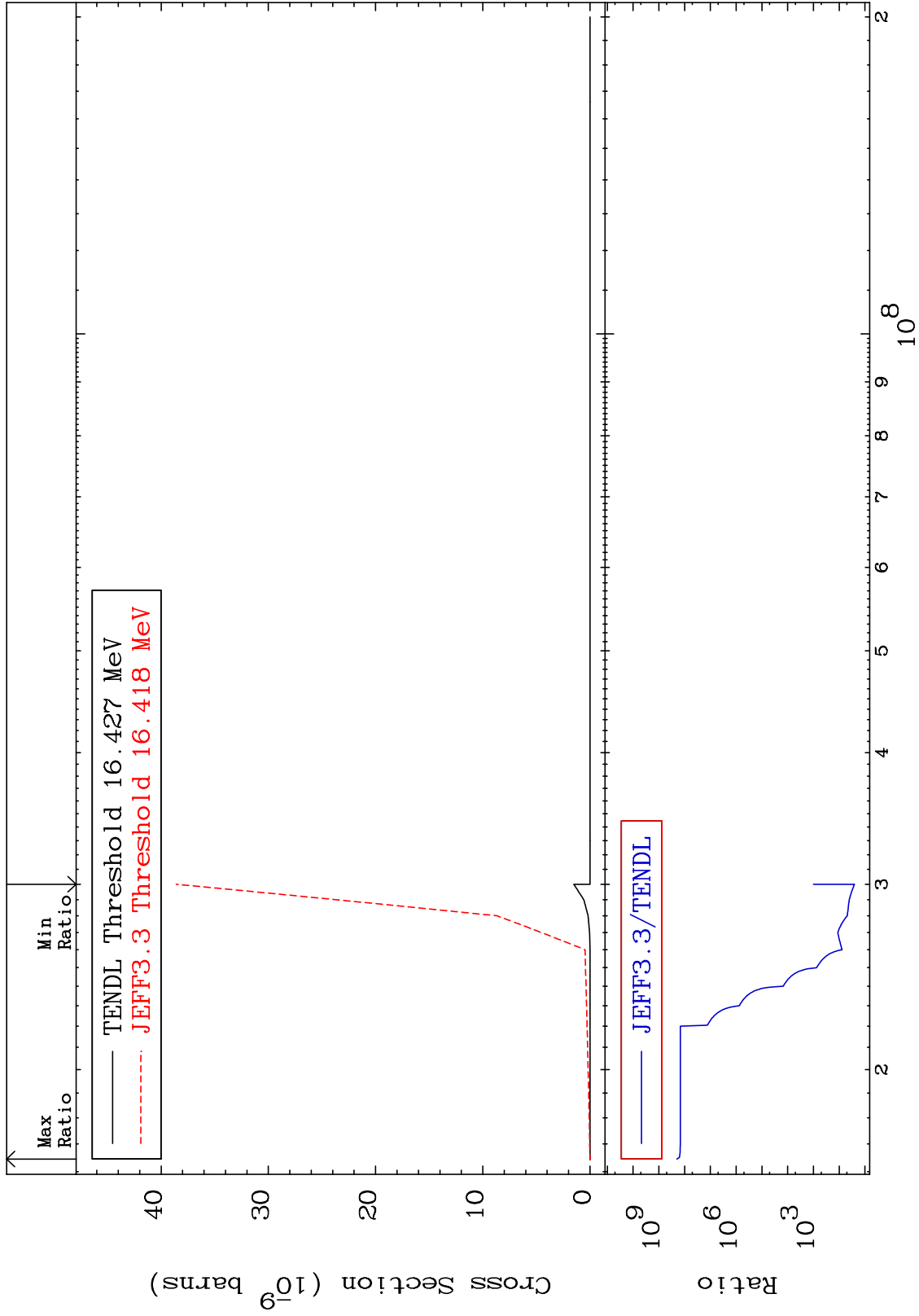
53-I -129

Radionuclide Production Cross Section -86.41 To 9999. %





Radionuclide Production Cross Section 2446. To 9999. %



Radionuclide Production Cross Section 820.8 To 9999. %

