

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

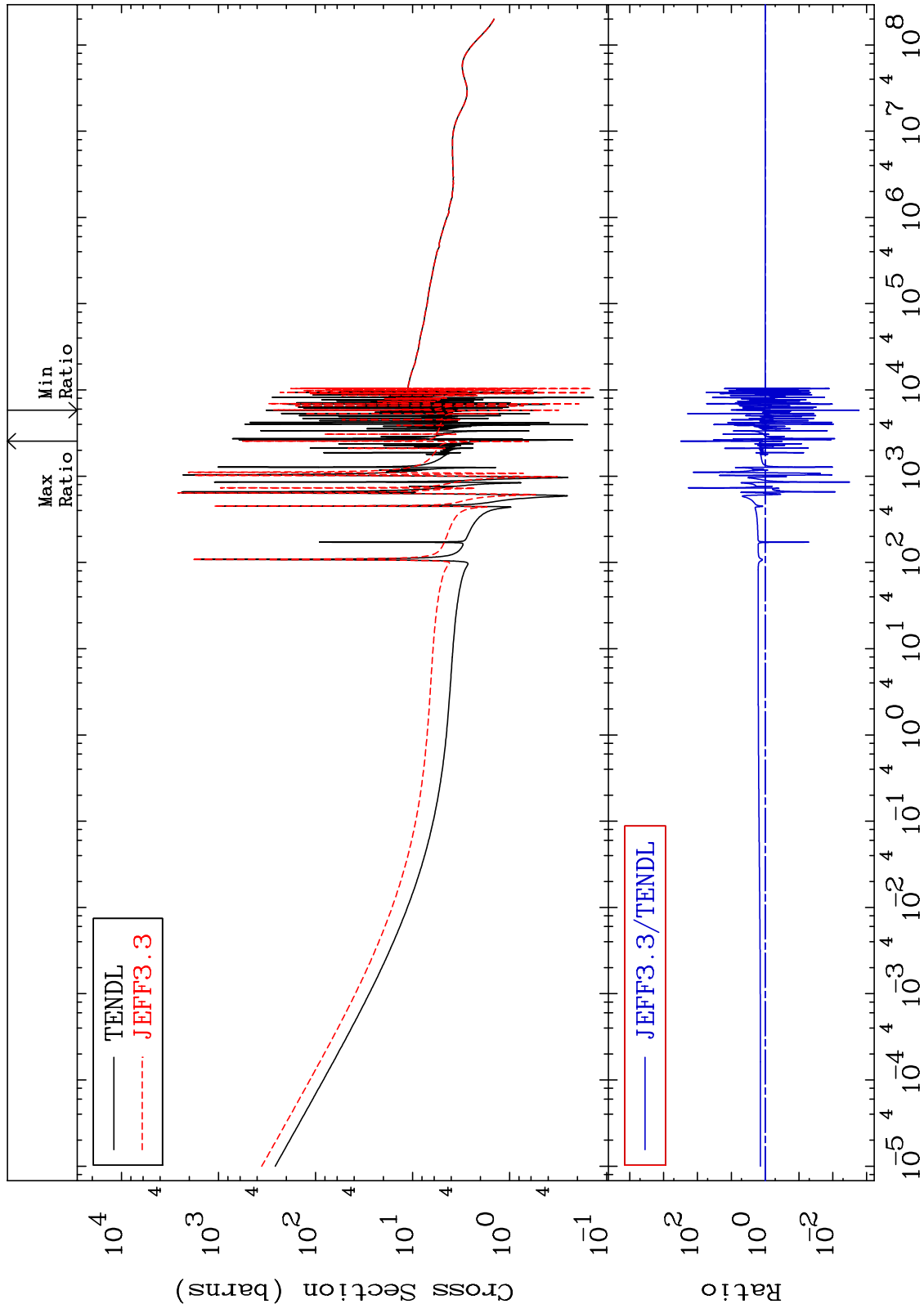
MAT 3625

Total

36-Kr-78

Cross Section

-99.83 To 9999. %



1

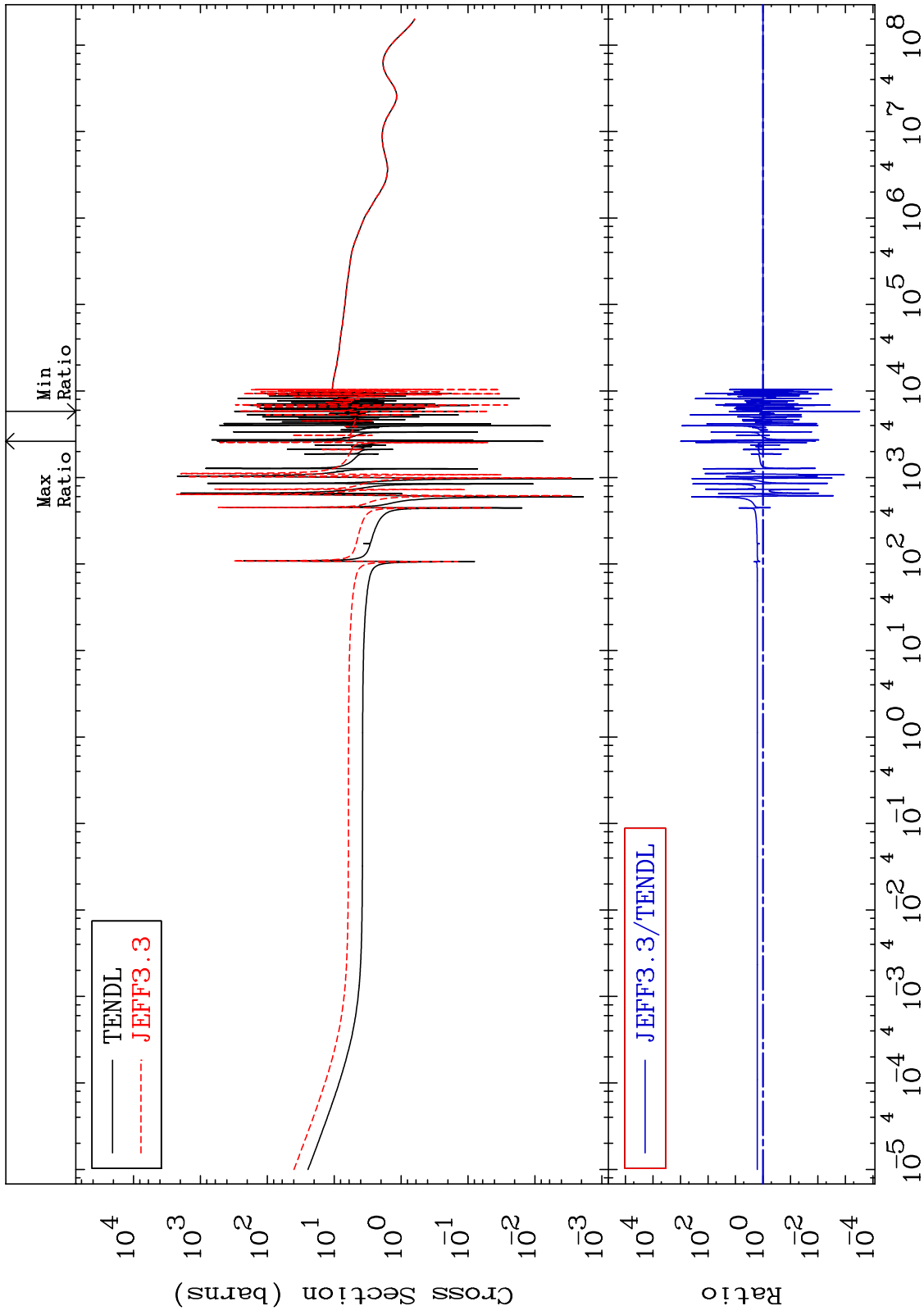
Incident Energy (eV)

36-Kr-78

MAT 3625

Elastic  
Cross Section

36-Kr-78  
-99.97 To 9999. %

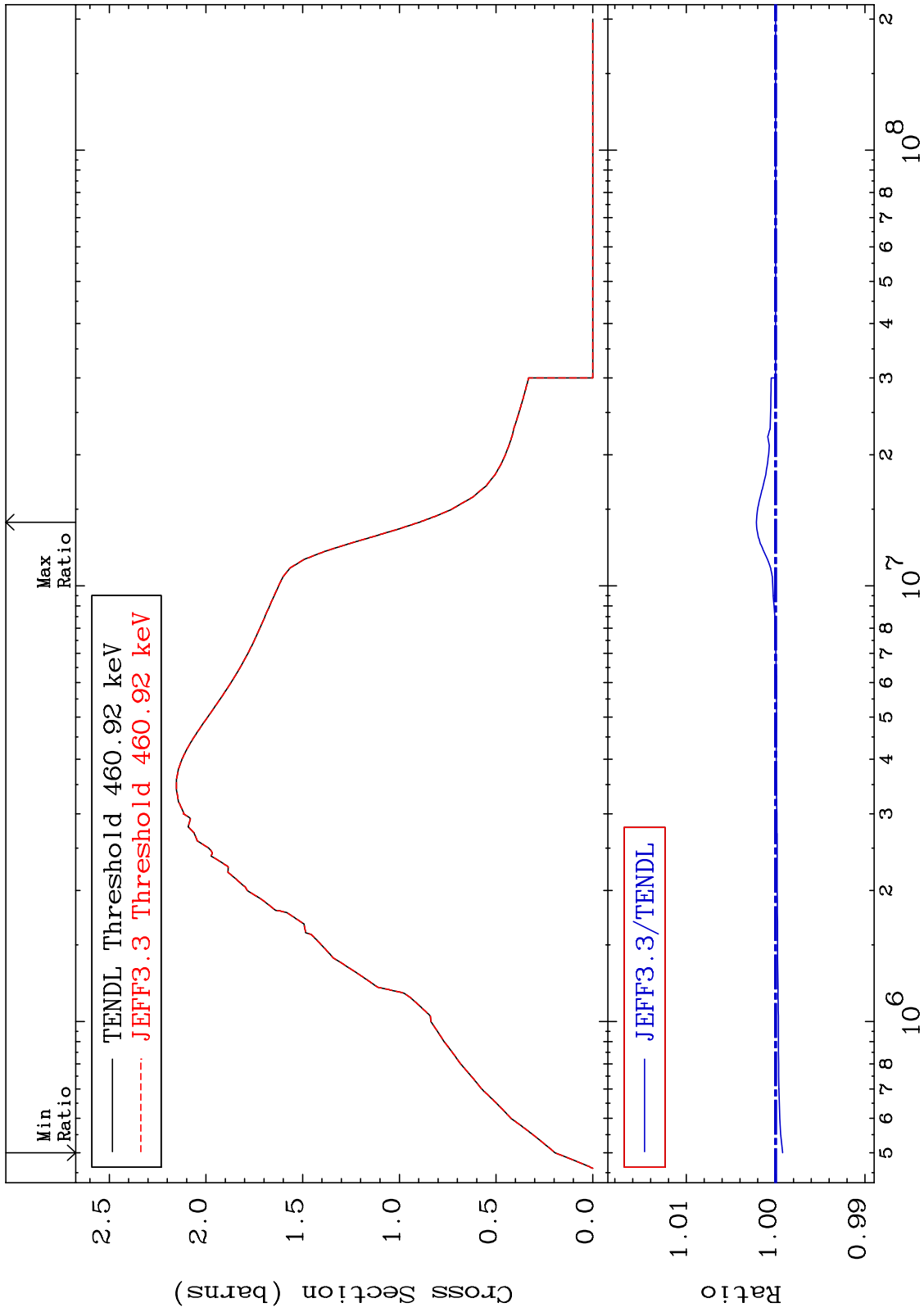


2

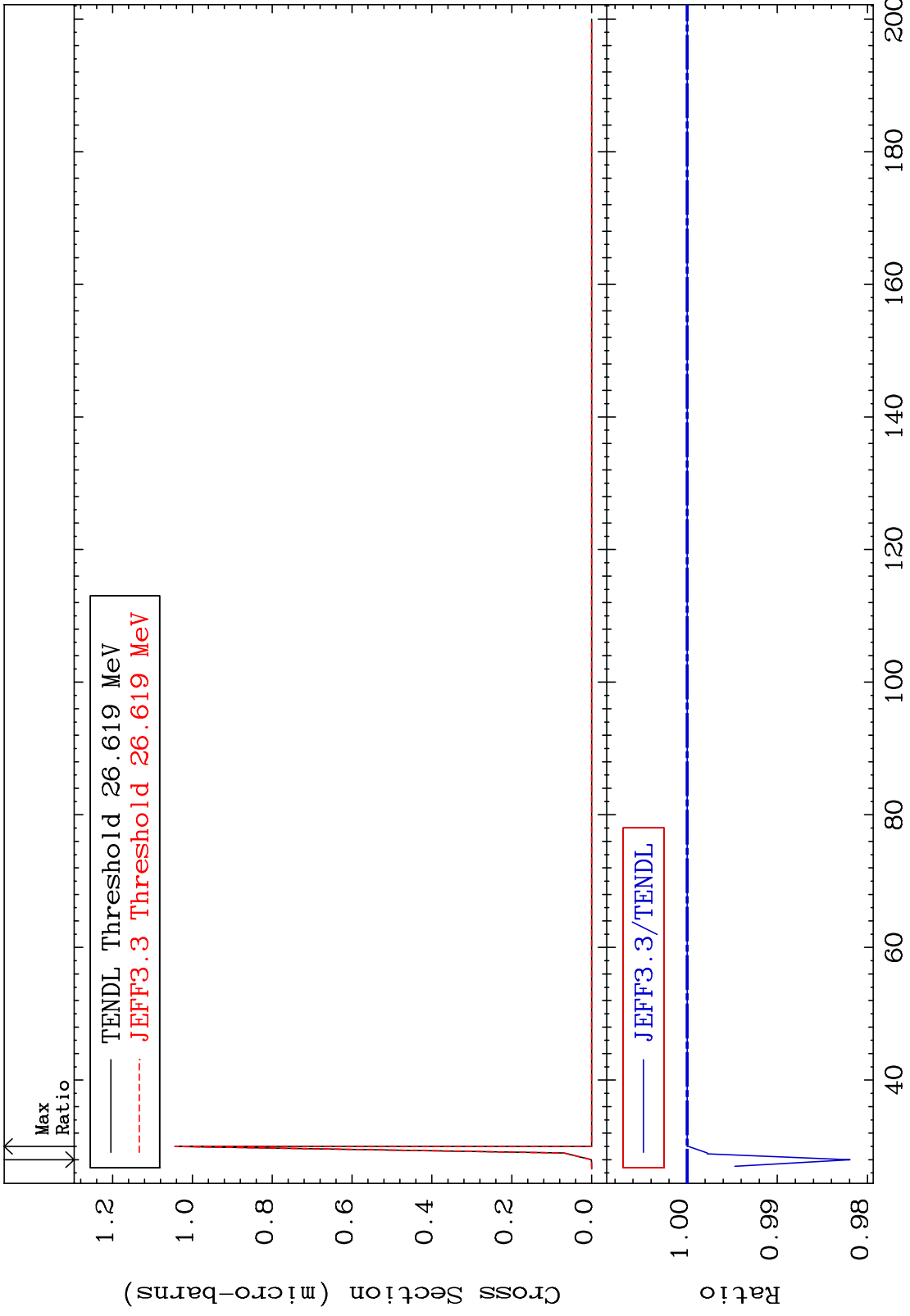
Incident Energy (eV)

36-Kr-78

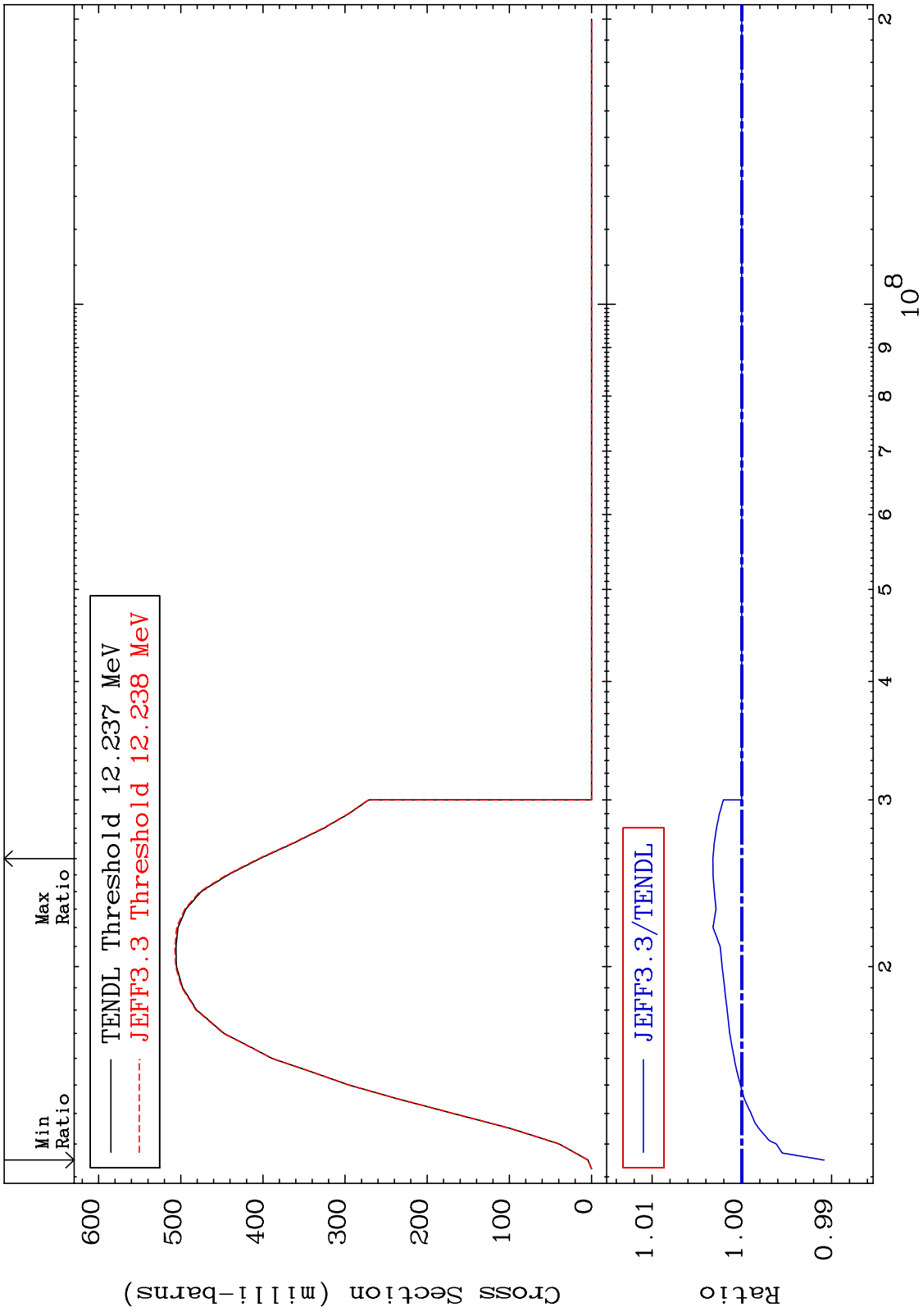
MAT 3625 36-Kr-78  
Inelastic Cross Section -0.079 To 0.215 %



3 36-Kr-78



MAT 3625  $(n,2n)$  Cross Section  $^{36}\text{Kr-78}$   $-0.917$  To  $0.323$  %



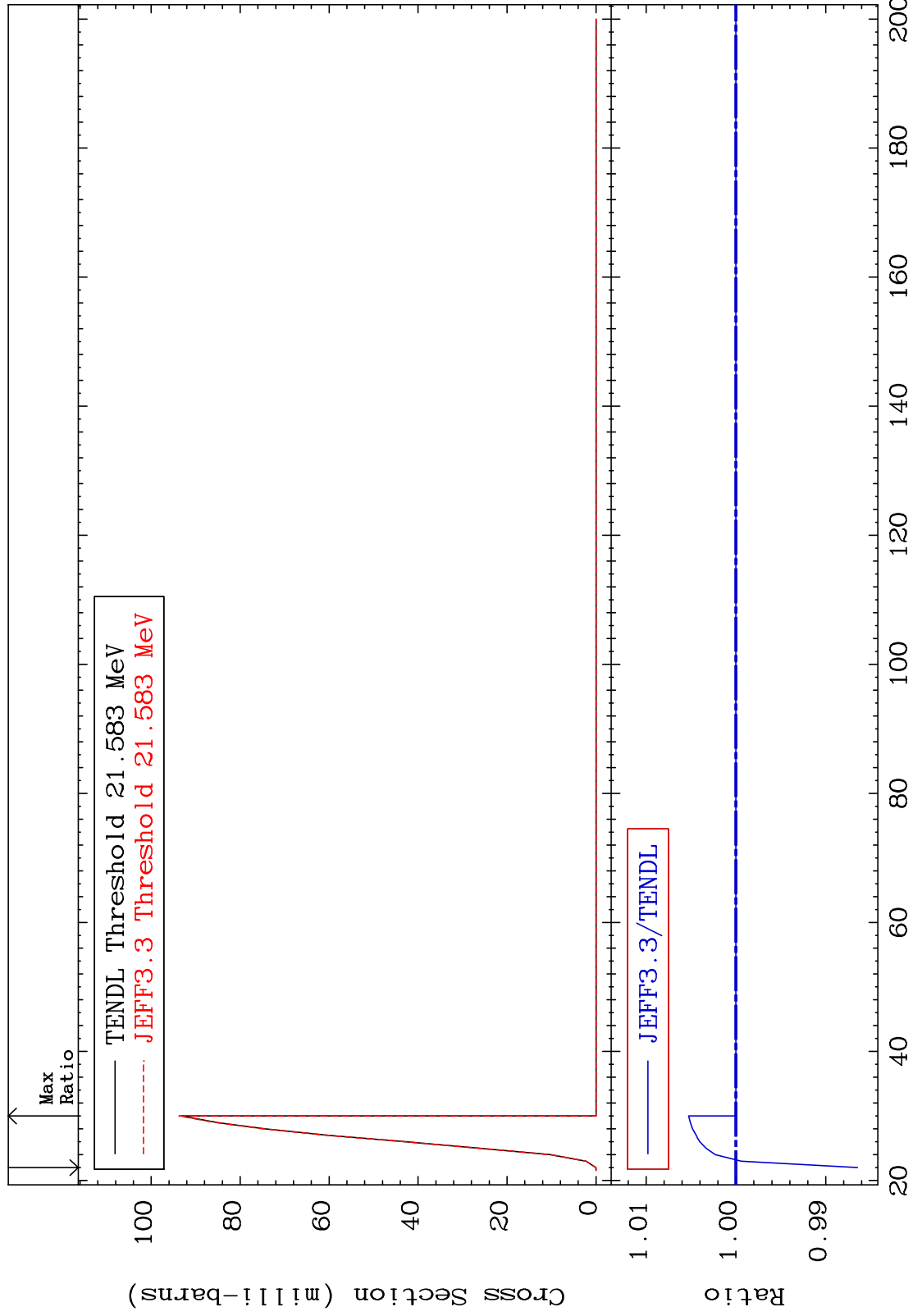
MAT 3625

(n,3n)

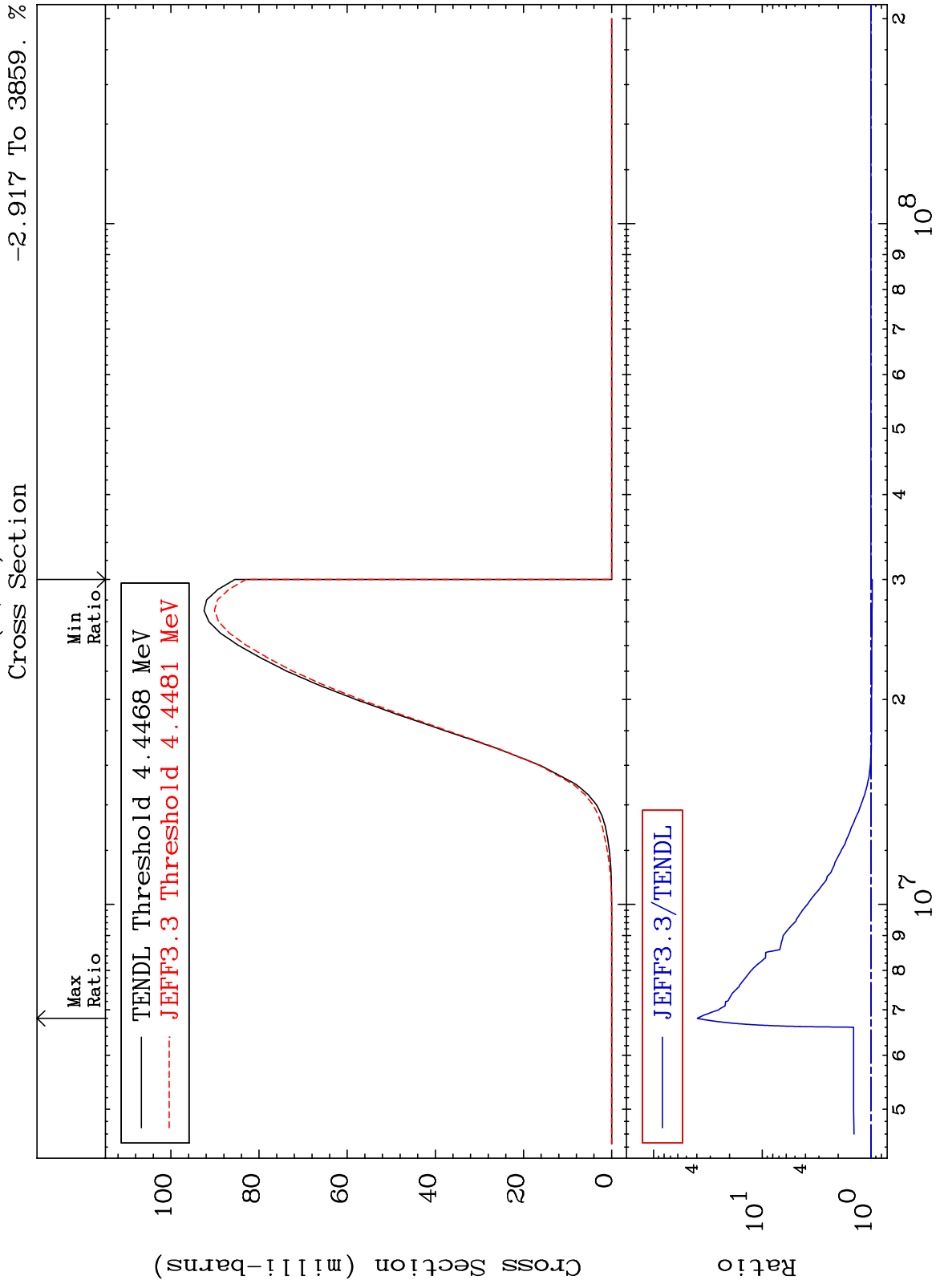
36-Kr-78

Cross Section

-1.354 To 0.527 %



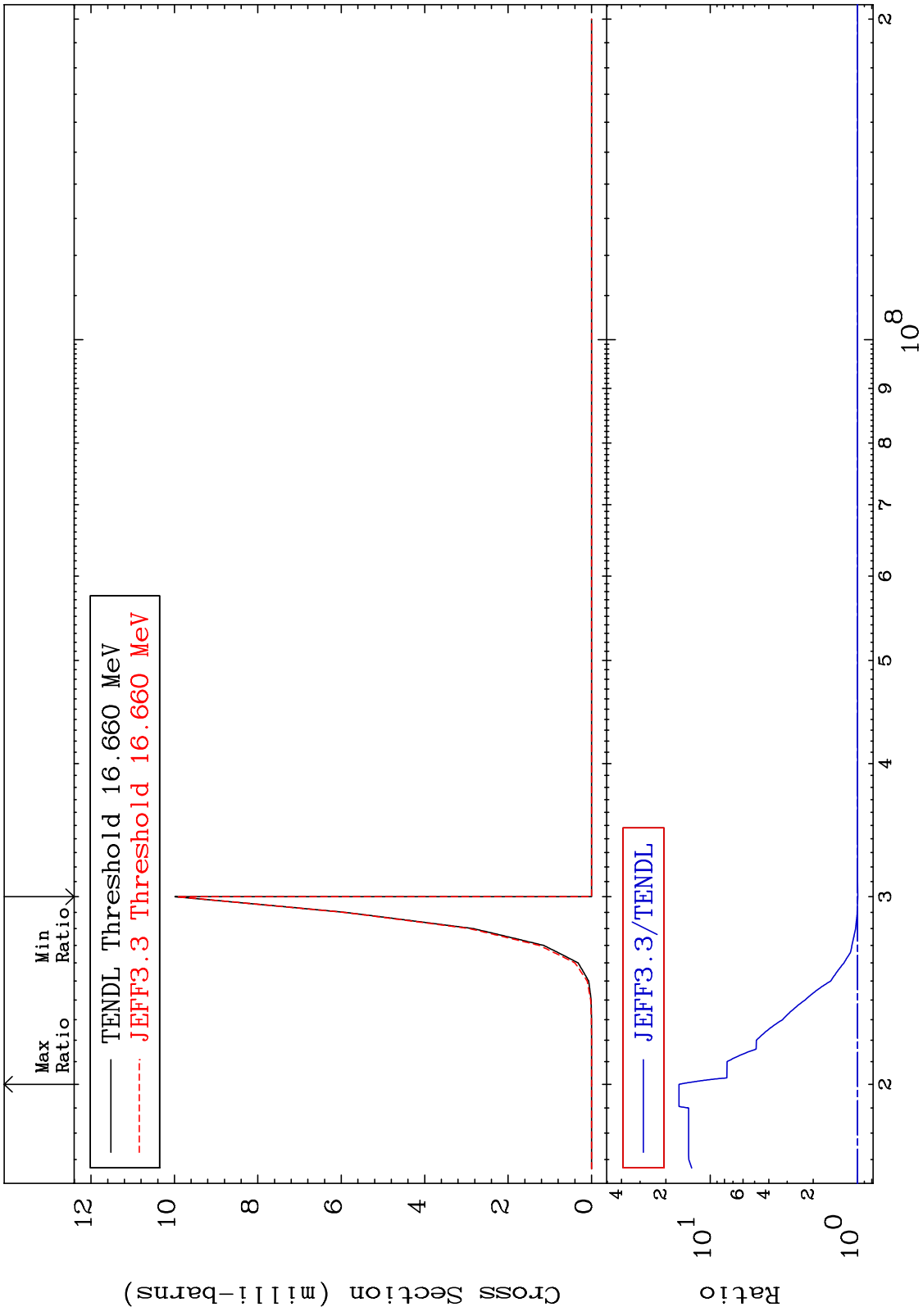
MAT 3625  $(n, n') \alpha$  36-Kr-78 -2.917 To 3859. %



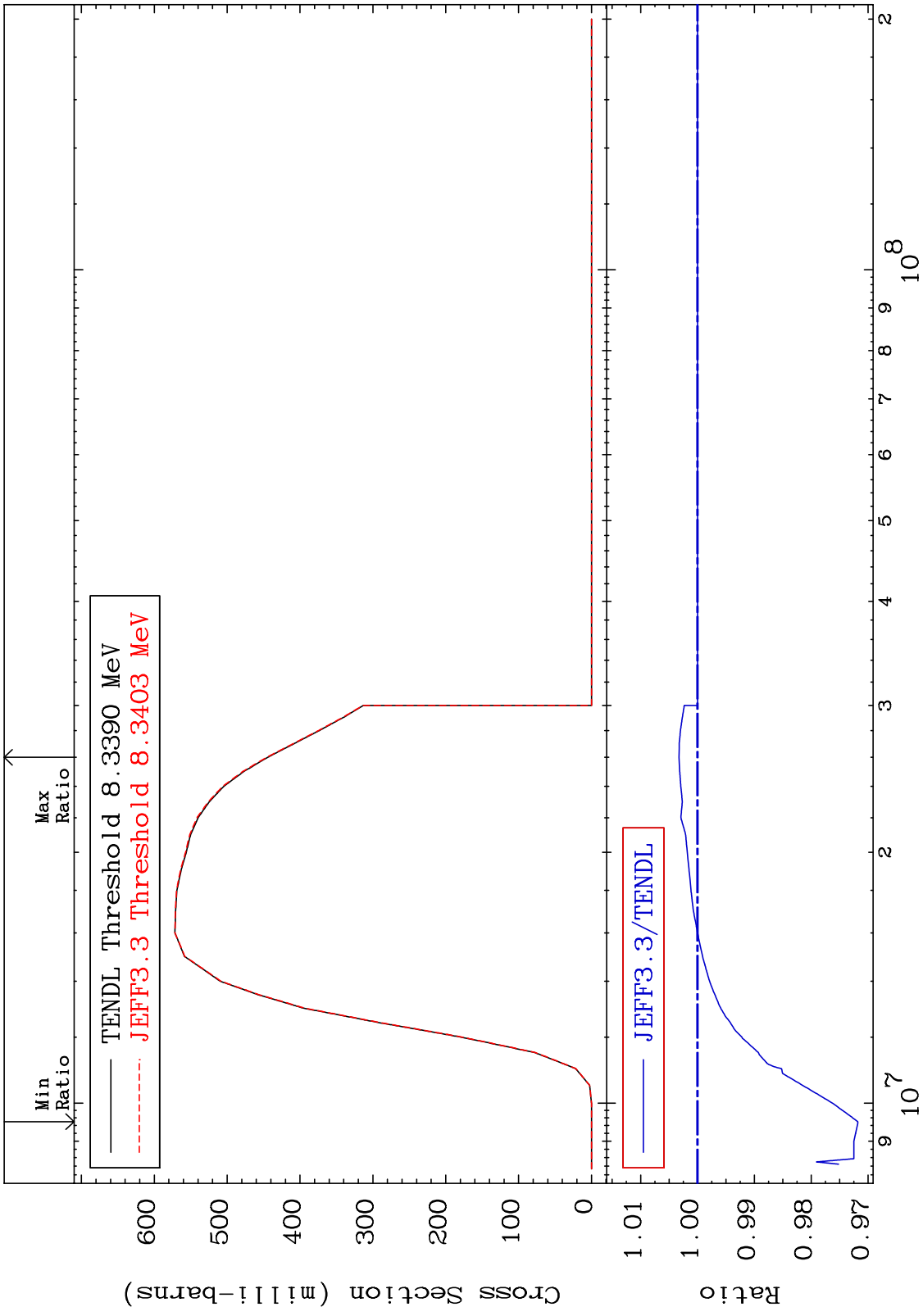
36-Kr-78



MAT 3625  $(n, 2n) \alpha$   $^{36}\text{Kr-78}$   
Cross Section -0.409 To 1529. %



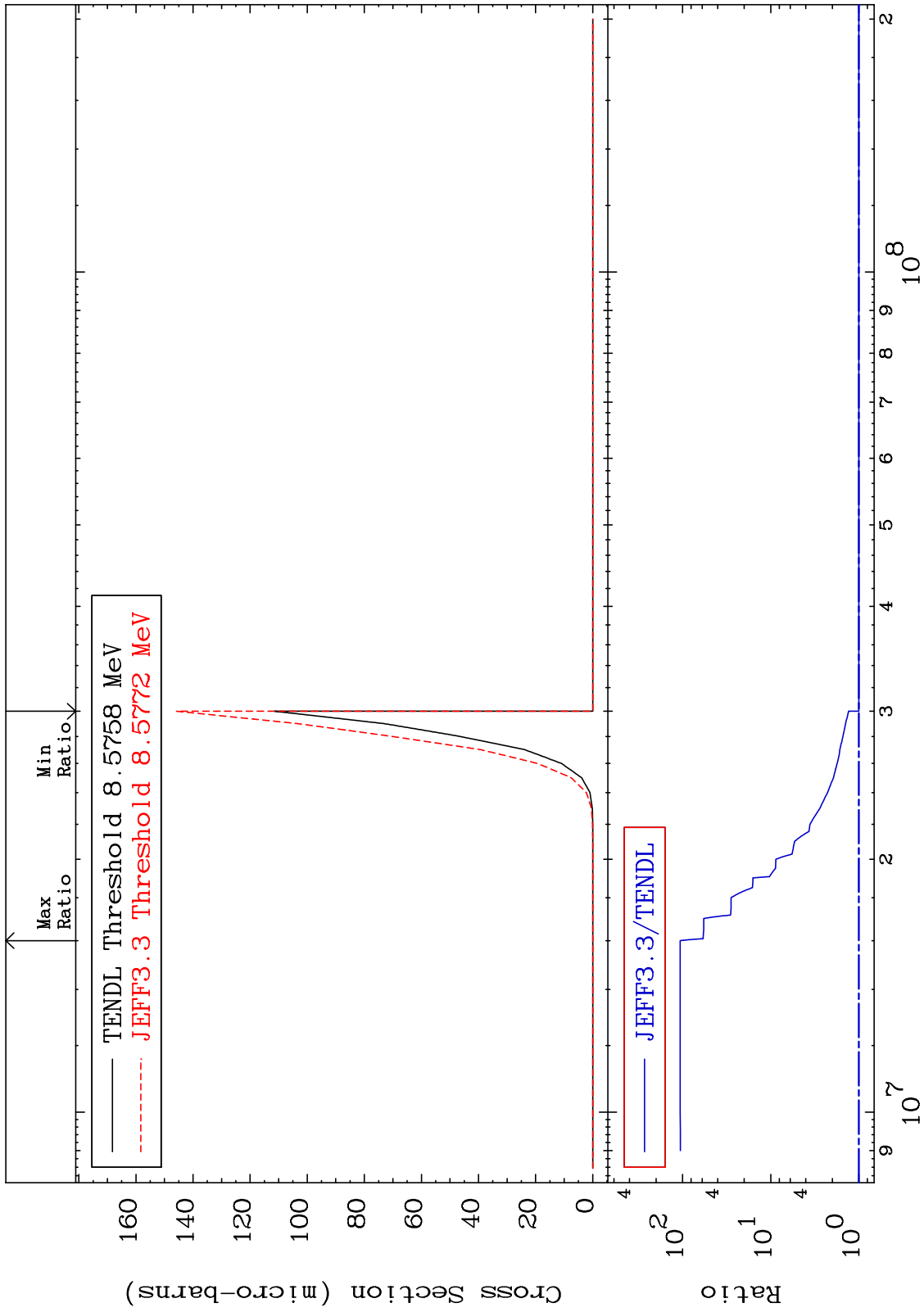
36-Kr-78



MAT 3625

(n,n') 2α  
Cross Section

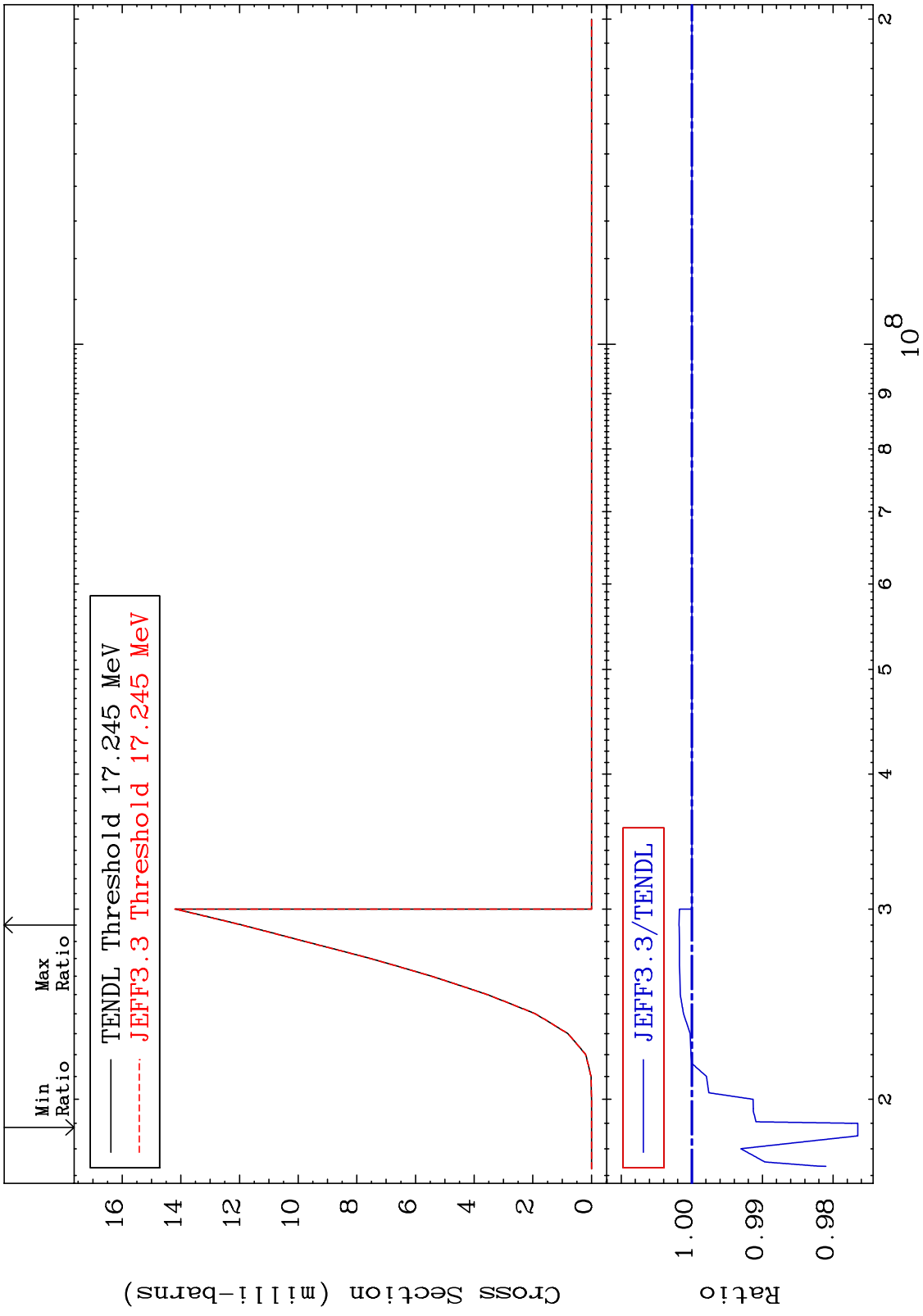
36-Kr-78  
To 9999. %  
0.000



10

Incident Energy (eV)

36-Kr-78



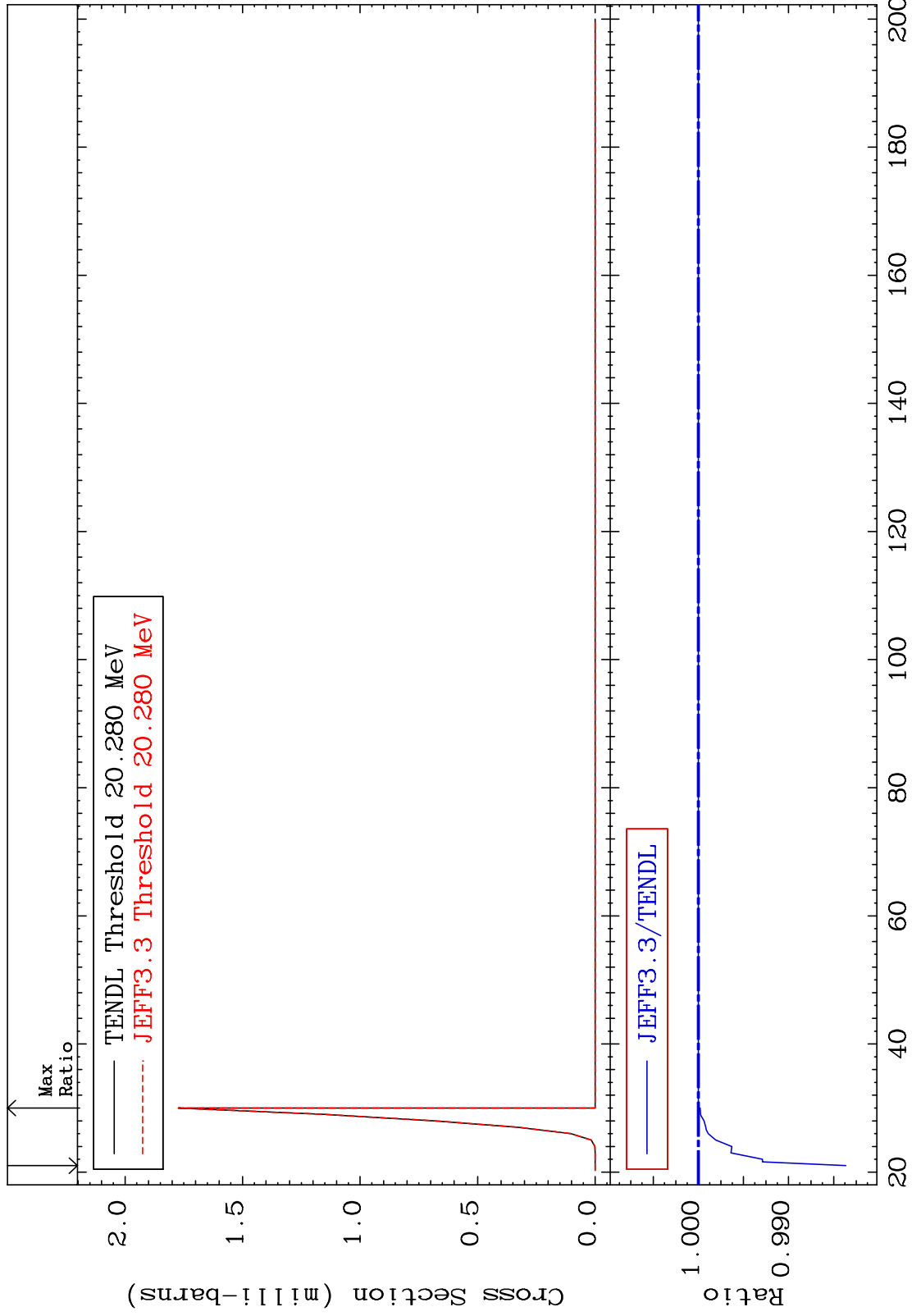
MAT 3625

(n,n') t

36-Kr-78

Cross Section

-1.636 To 0.000 %

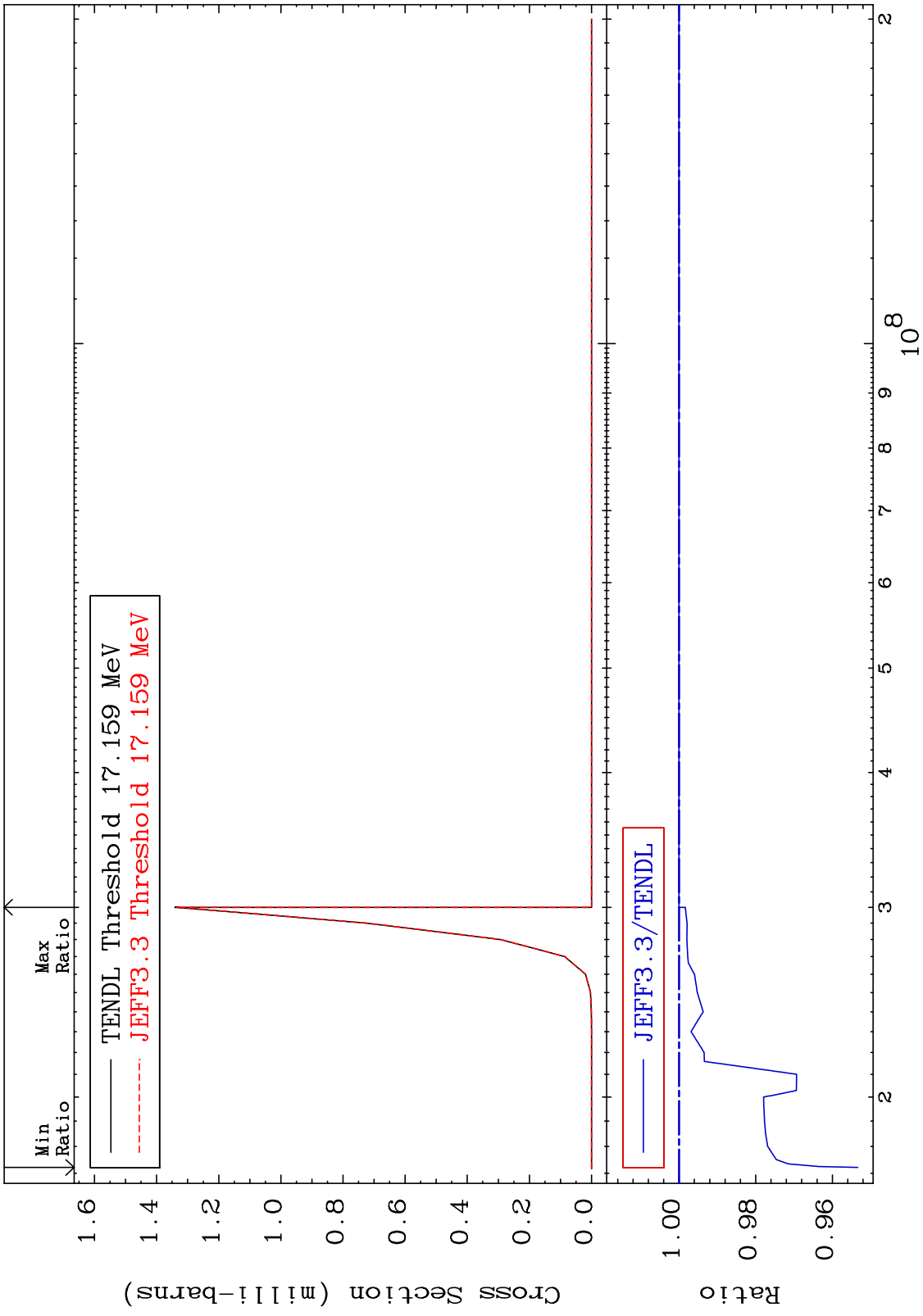


12

Incident Energy (MeV)

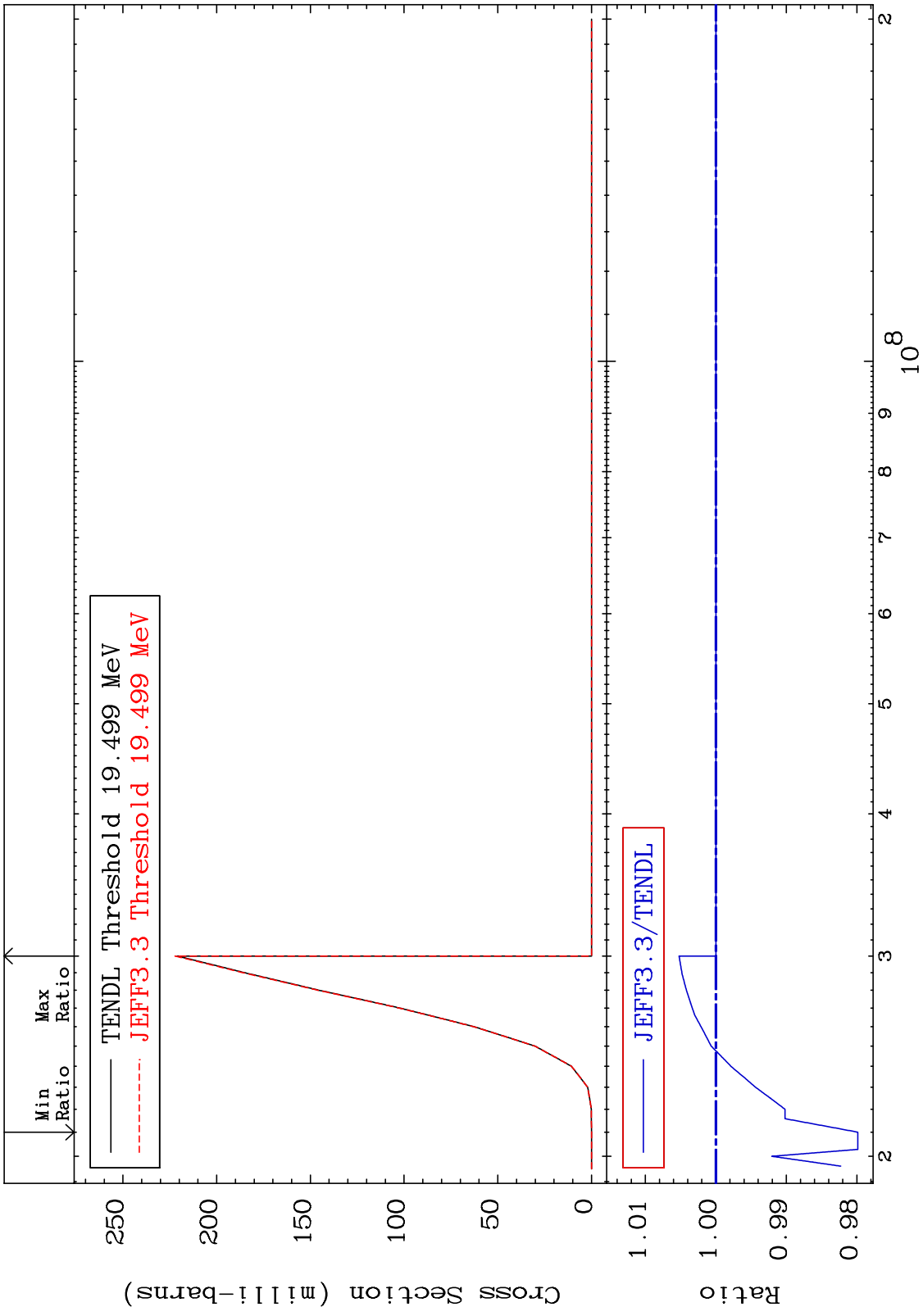
36-Kr-78

MAT 3625 (n, n') He-3 36-Kr-78  
 Cross Section -4.664 To 0.000 %

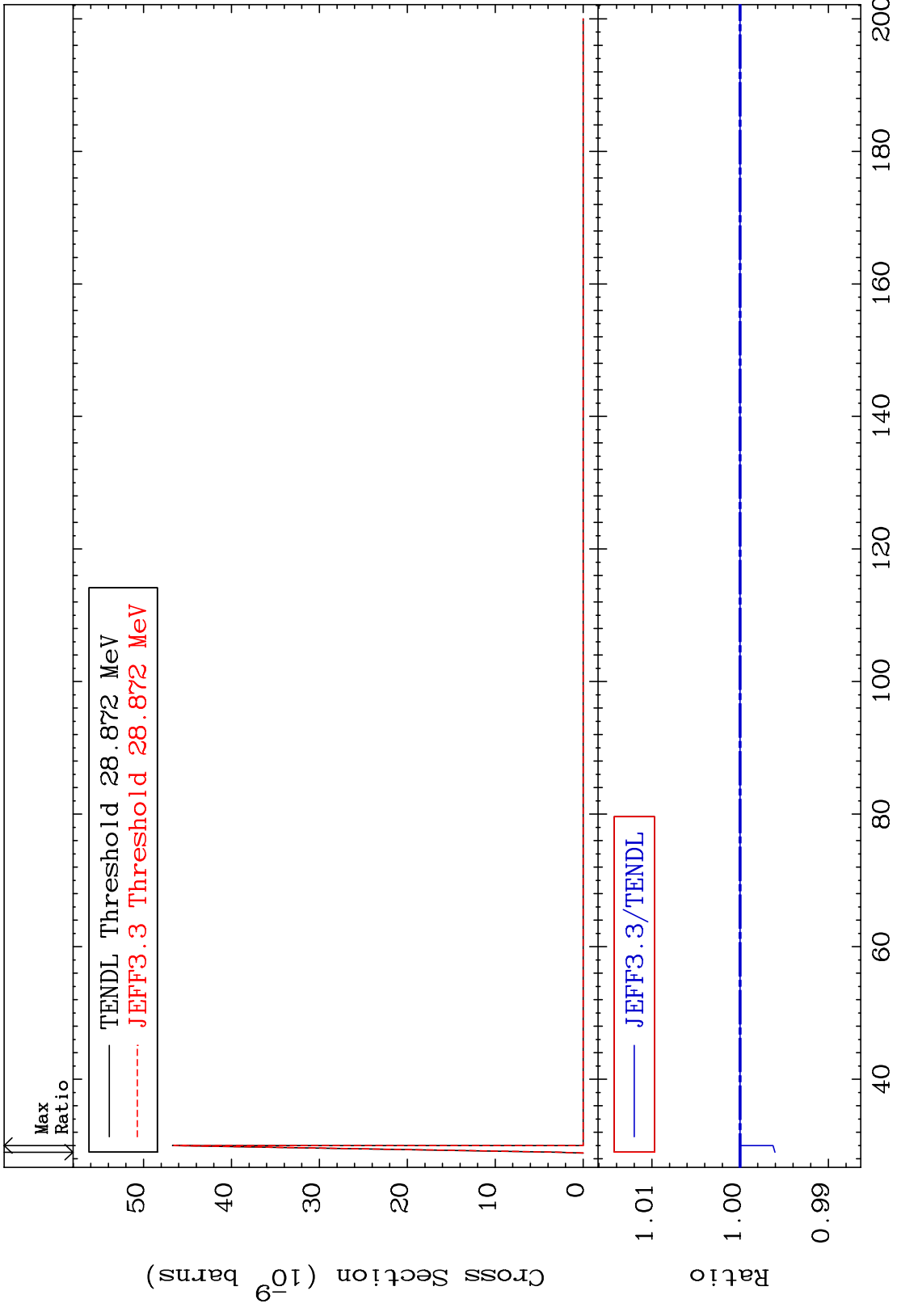


36-Kr-78

Incident Energy (eV)

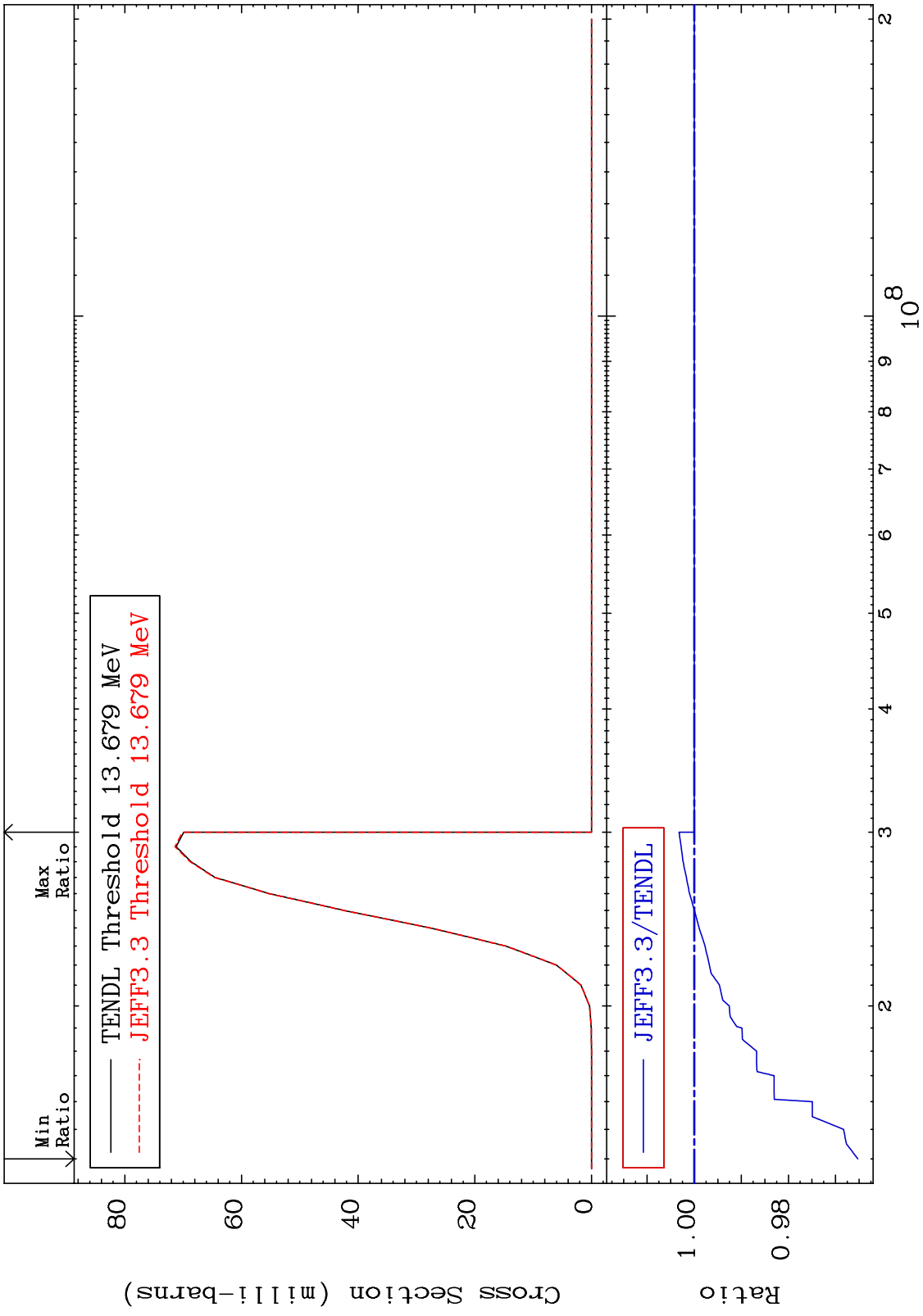


MAT 3625 (n,3n) p 36-Kr-78  
Cross Section -0.395 To 0.000 %

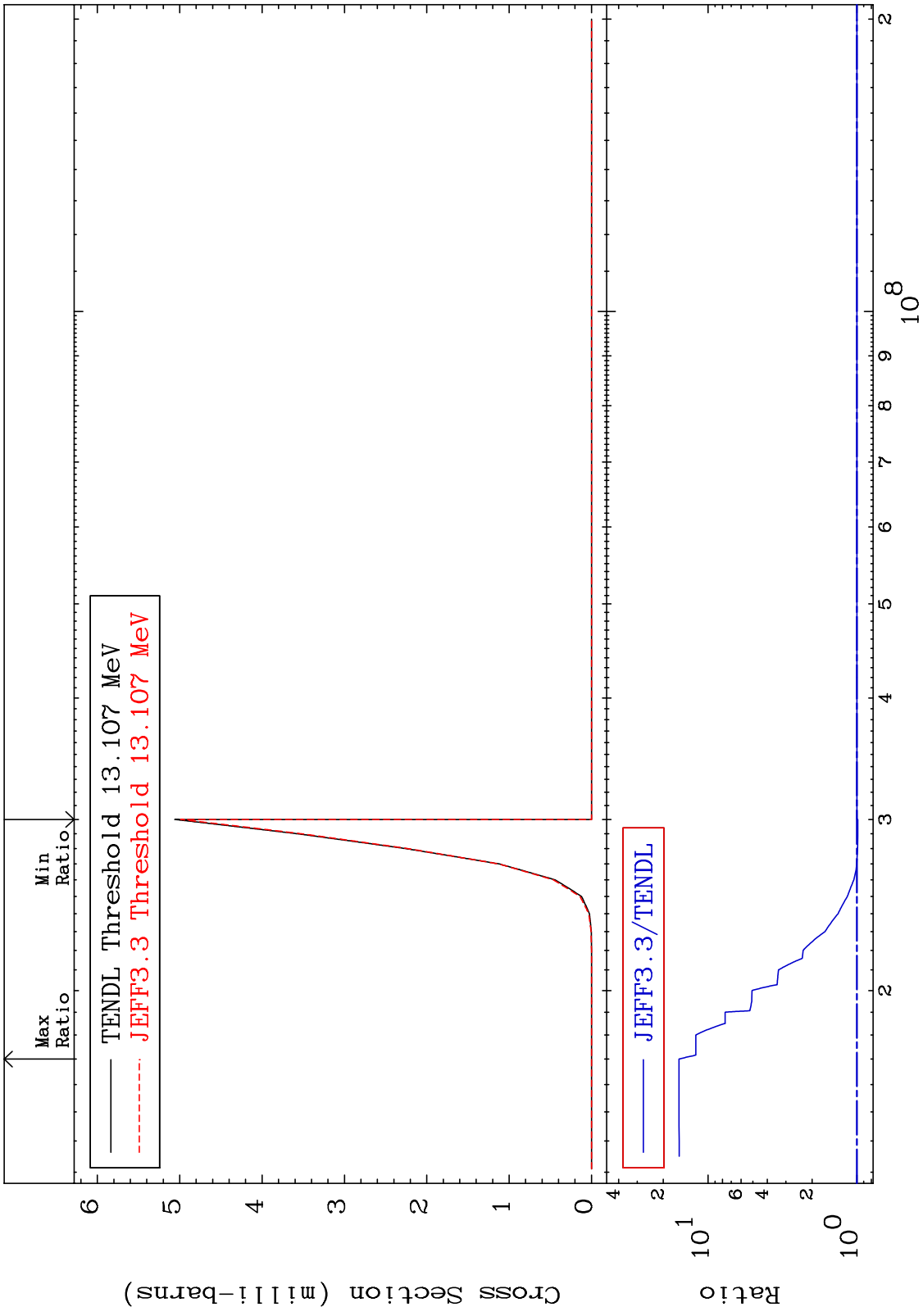




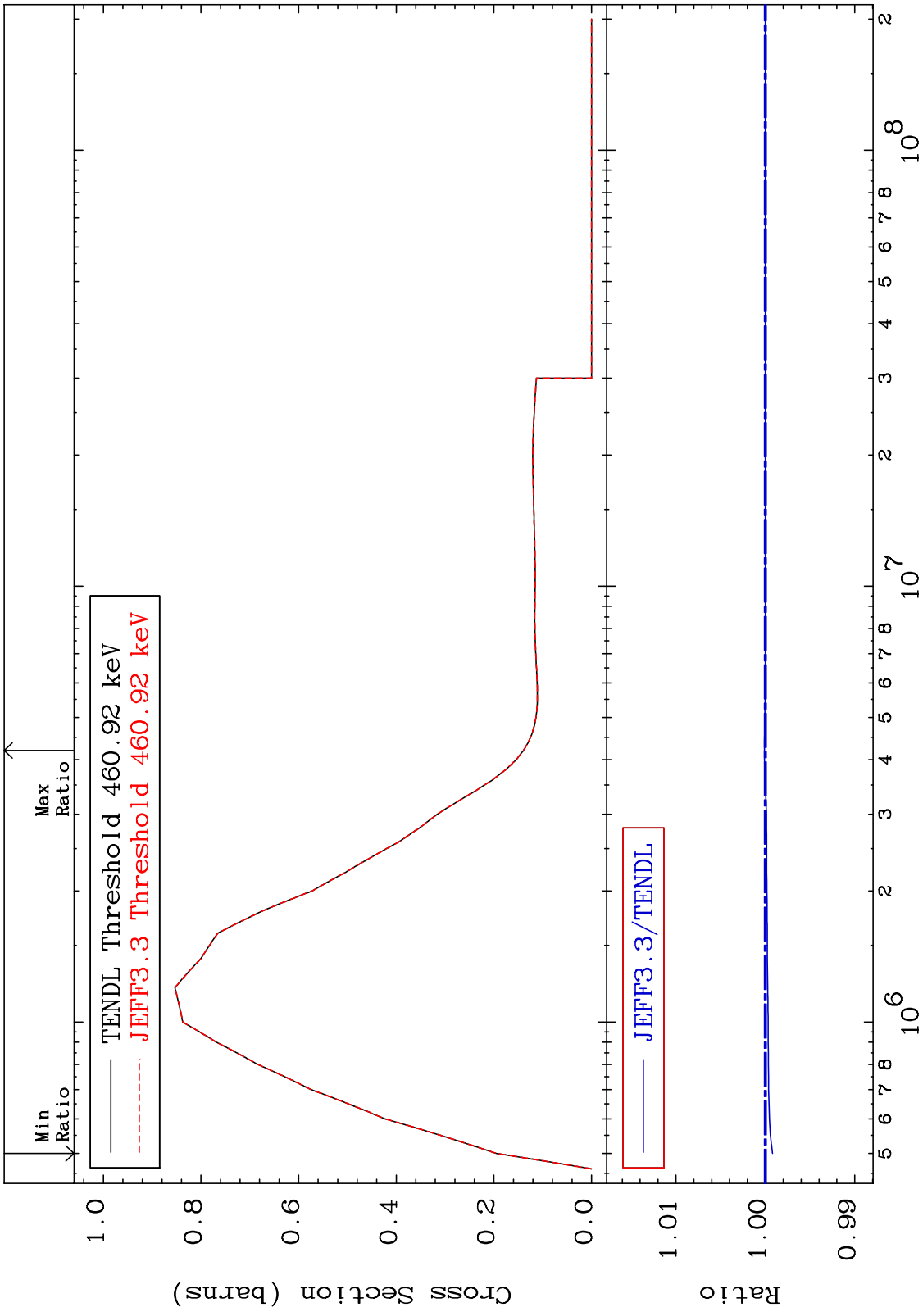
MAT 3625 (n,2n) p 36-Kr-78  
 Cross Section -3.474 To 0.323 %



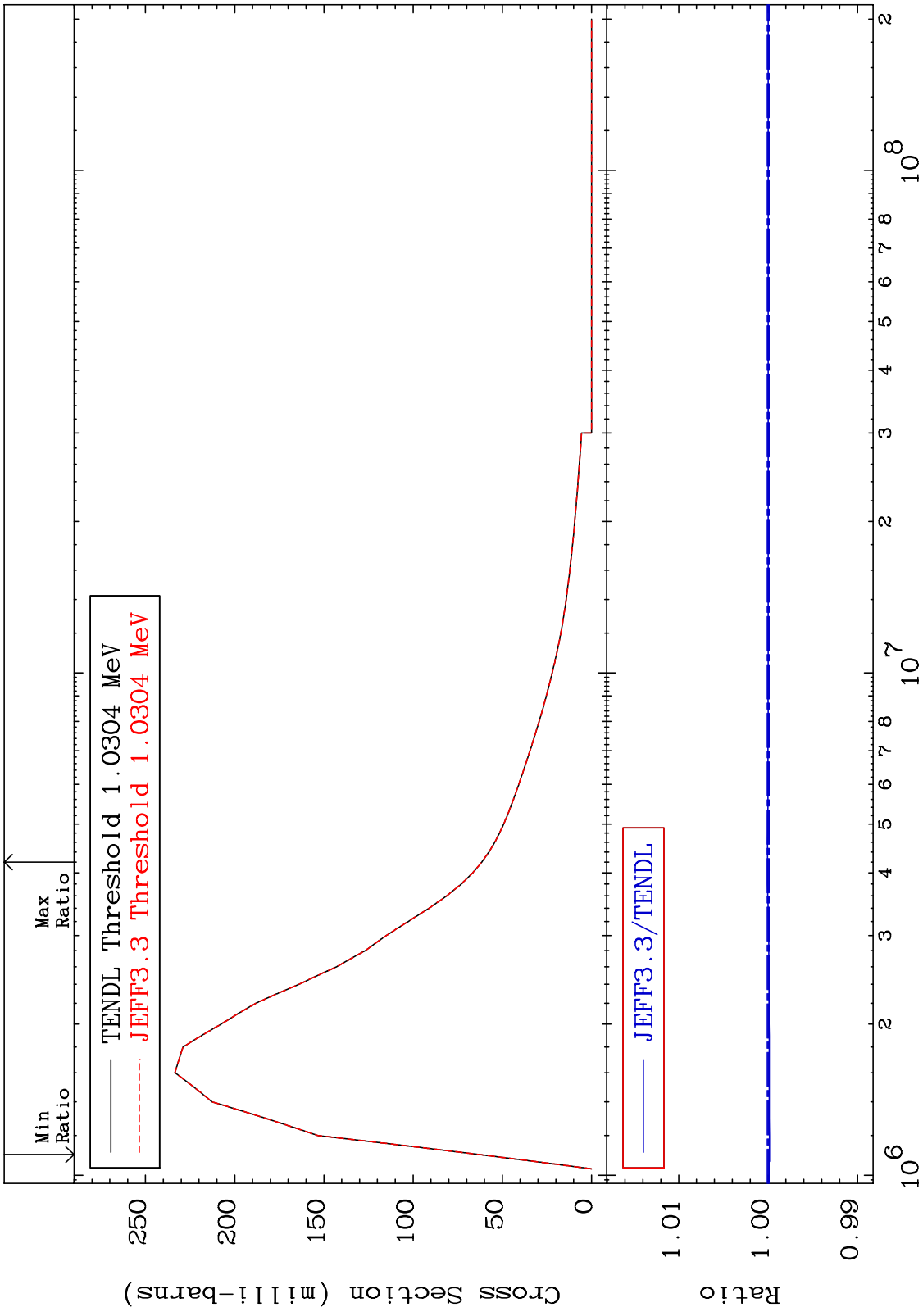
36-Kr-78



MAT 3625 MT= 51 (n,n') Level Cross Section 36-Kr-78  
 -0.079 To 0.010 %

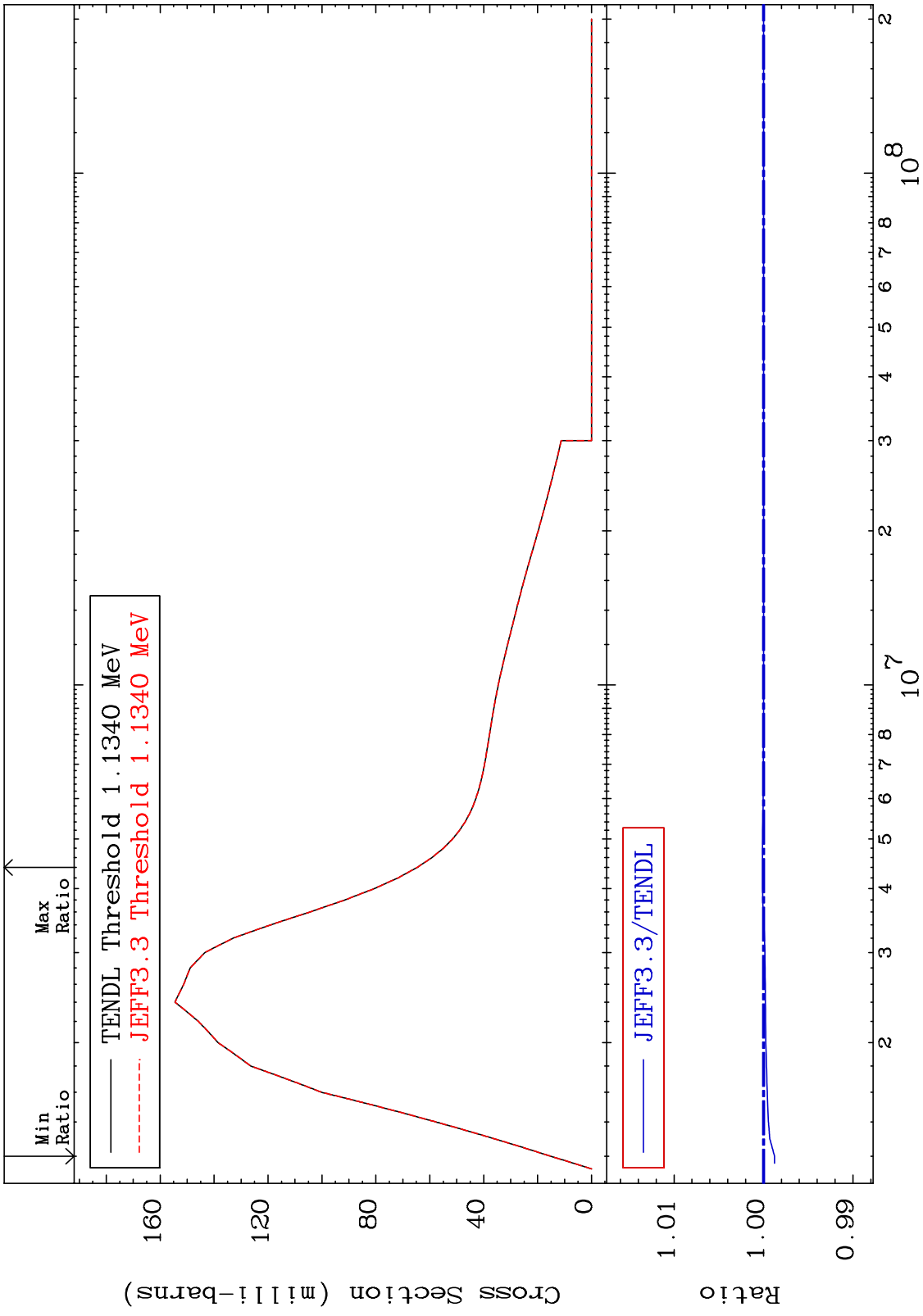


MAT 3625 MT= 52 (n,n') Level Cross Section 36-Kr-78  
 -0.014 To 0.007 %

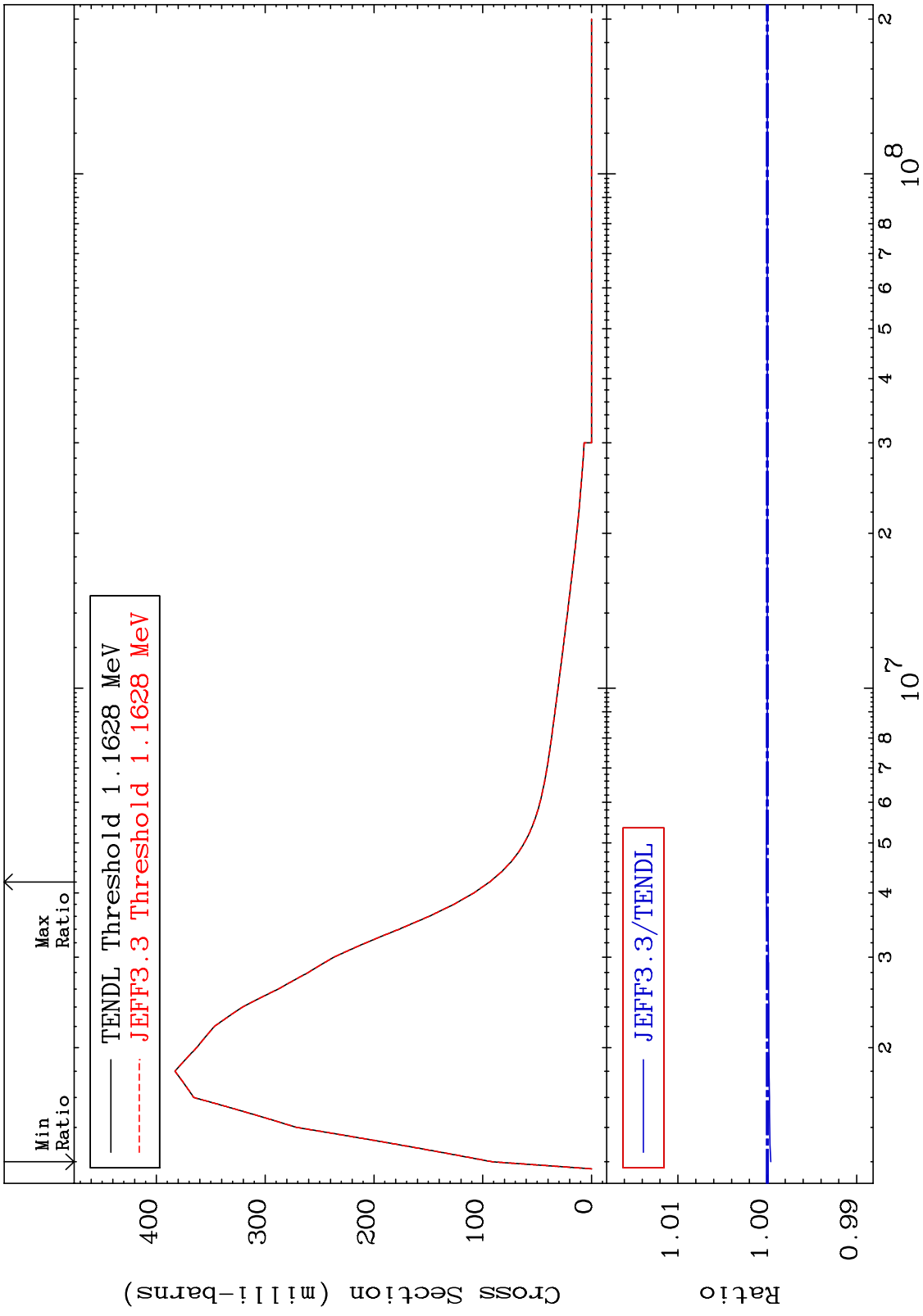


19 Incident Energy (eV) 36-Kr-78

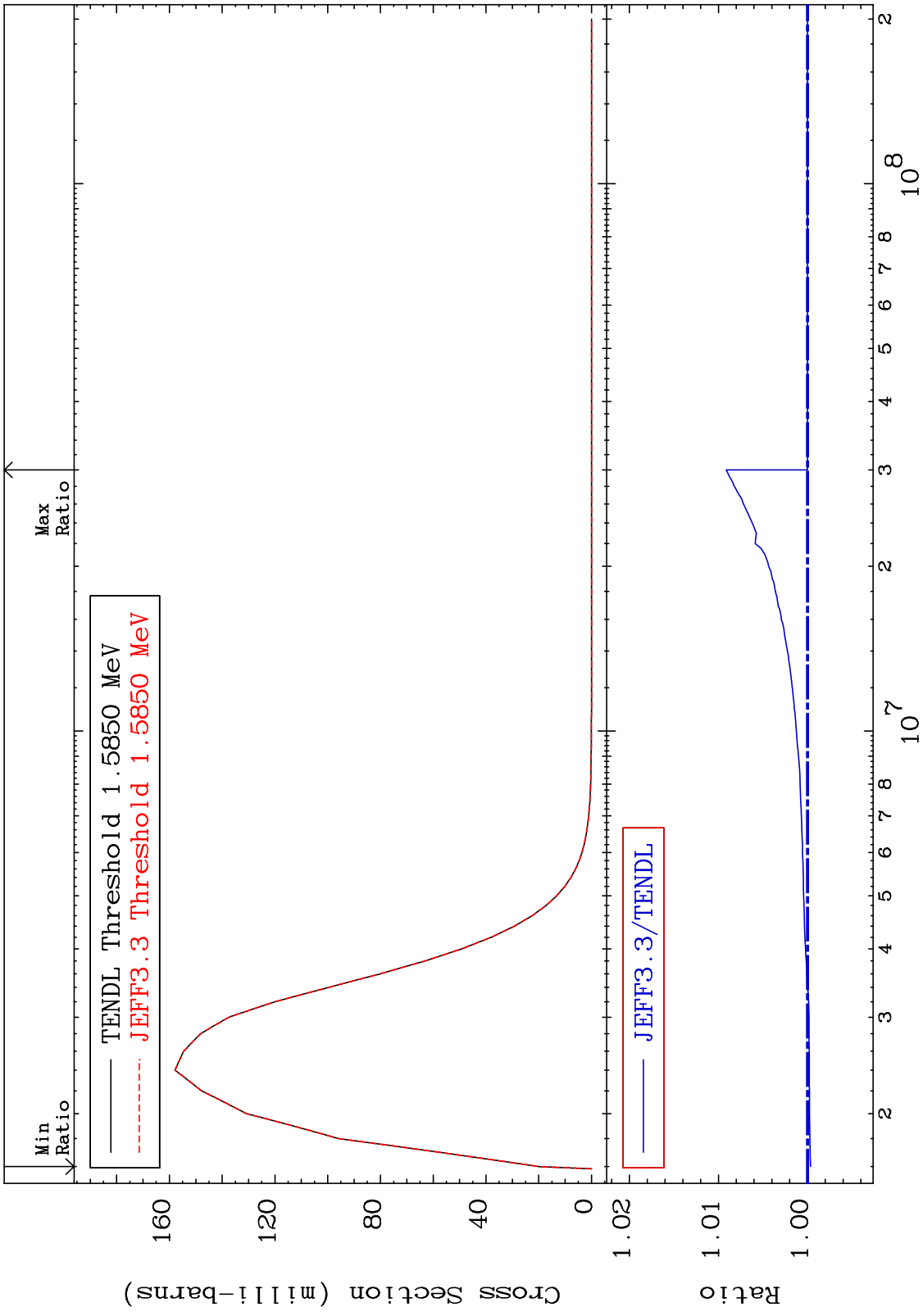
MAT 3625 MT= 53 (n,n') Level Cross Section -0.123 To 0.013 % 36-Kr-78



MAT 3625 MT= 54 (n,n') Level Cross Section 36-Kr-78  
 -0.037 To 0.013 %



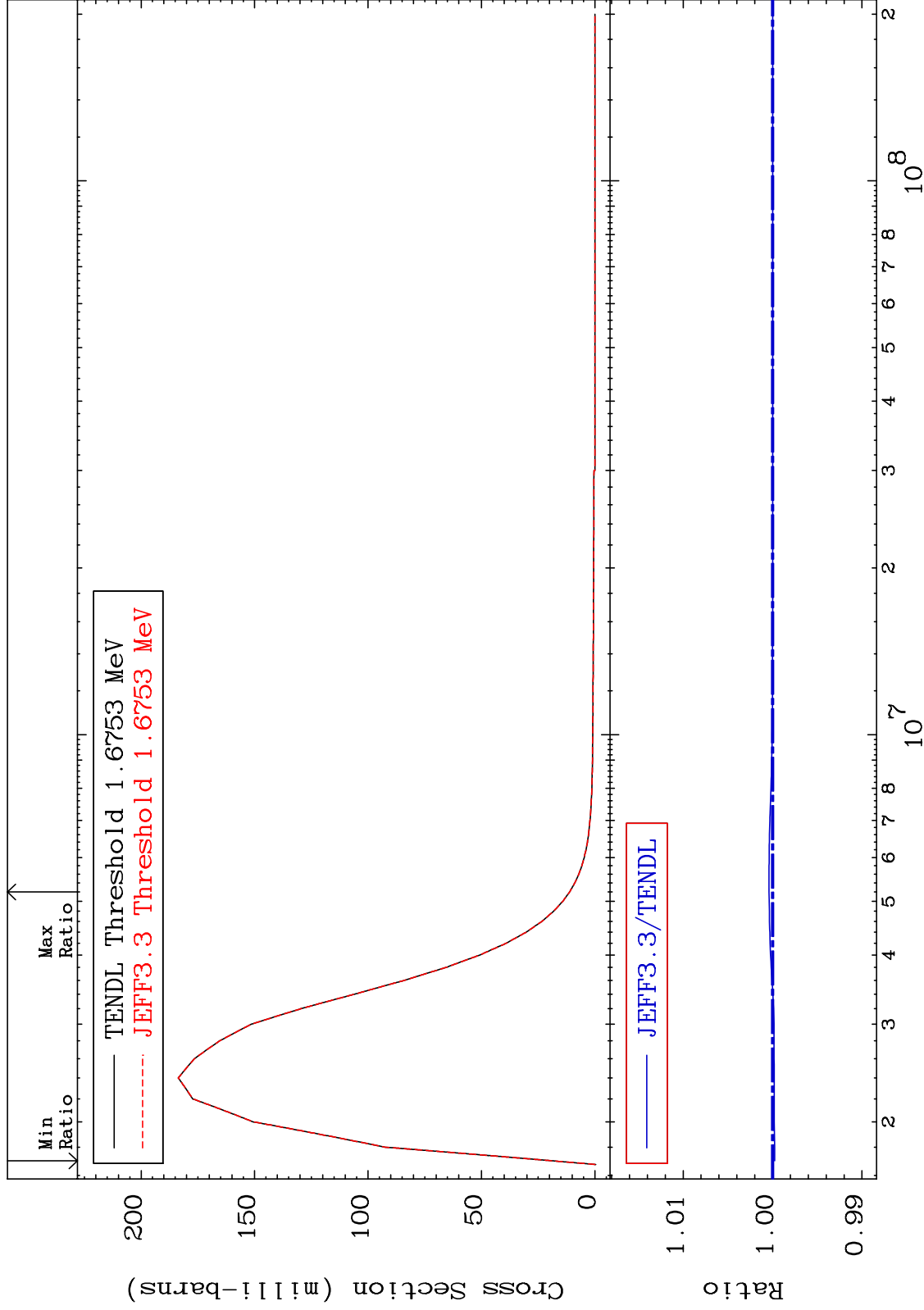
MAT 3625 MT= 55 (n,n') Level Cross Section -0.036 To 0.913 % 36-Kr-78



MAT 3625

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

36-Kr-78  
-0.024 To 0.039 %

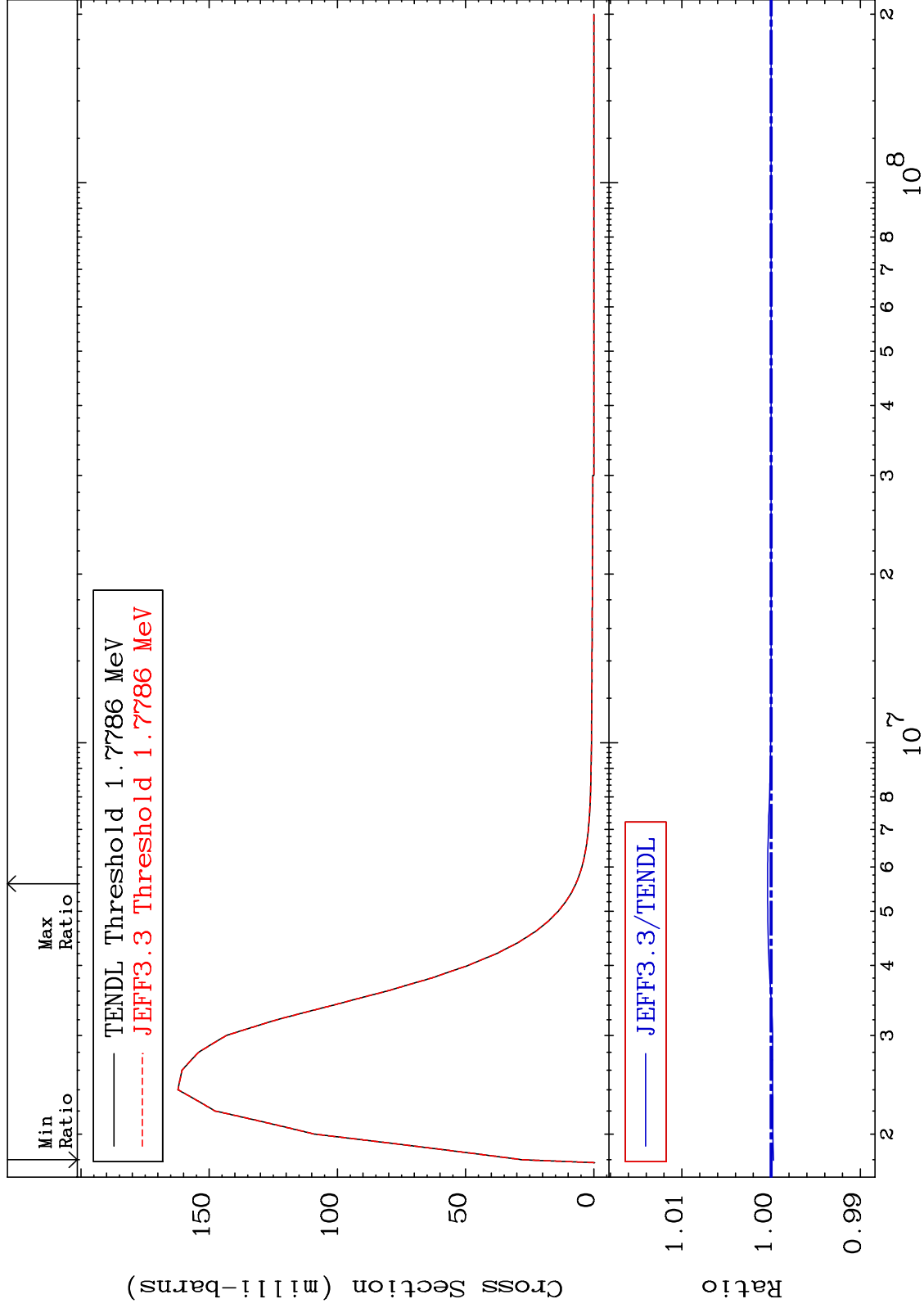




MAT 3625

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

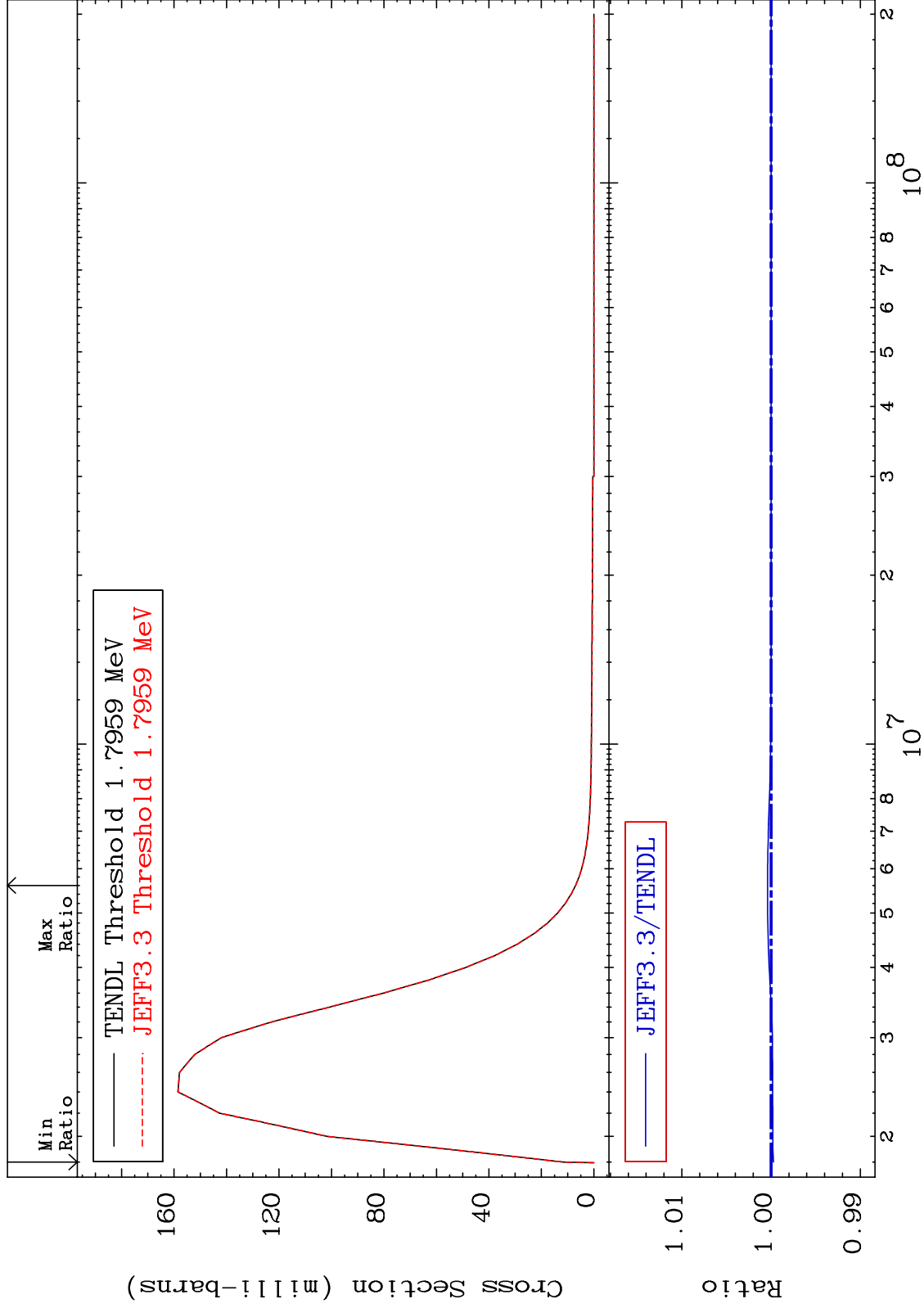
36-Kr-78  
-0.025 To 0.040 %



MAT 3625

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

36-Kr-78  
-0.026 To 0.039 %

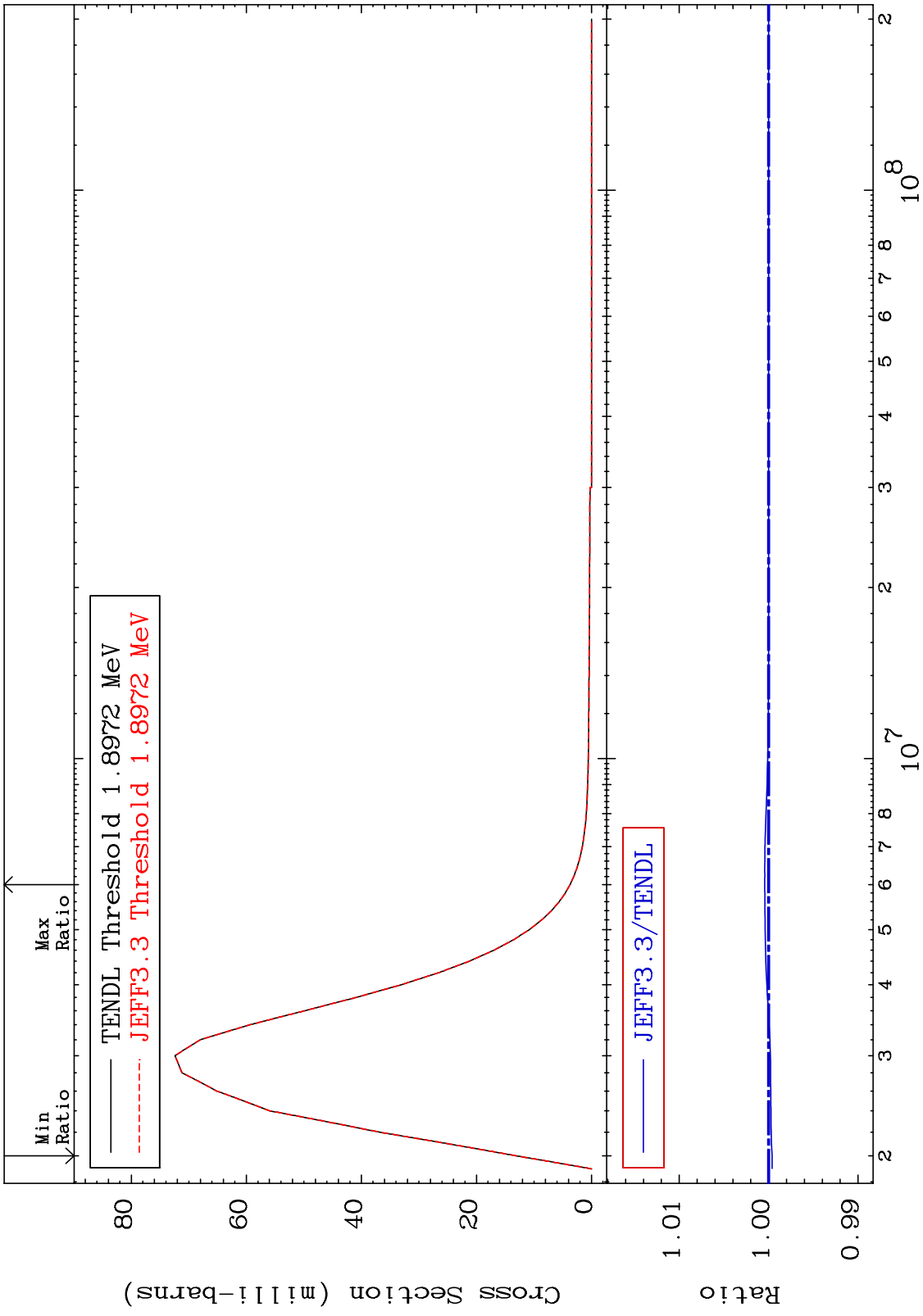


25

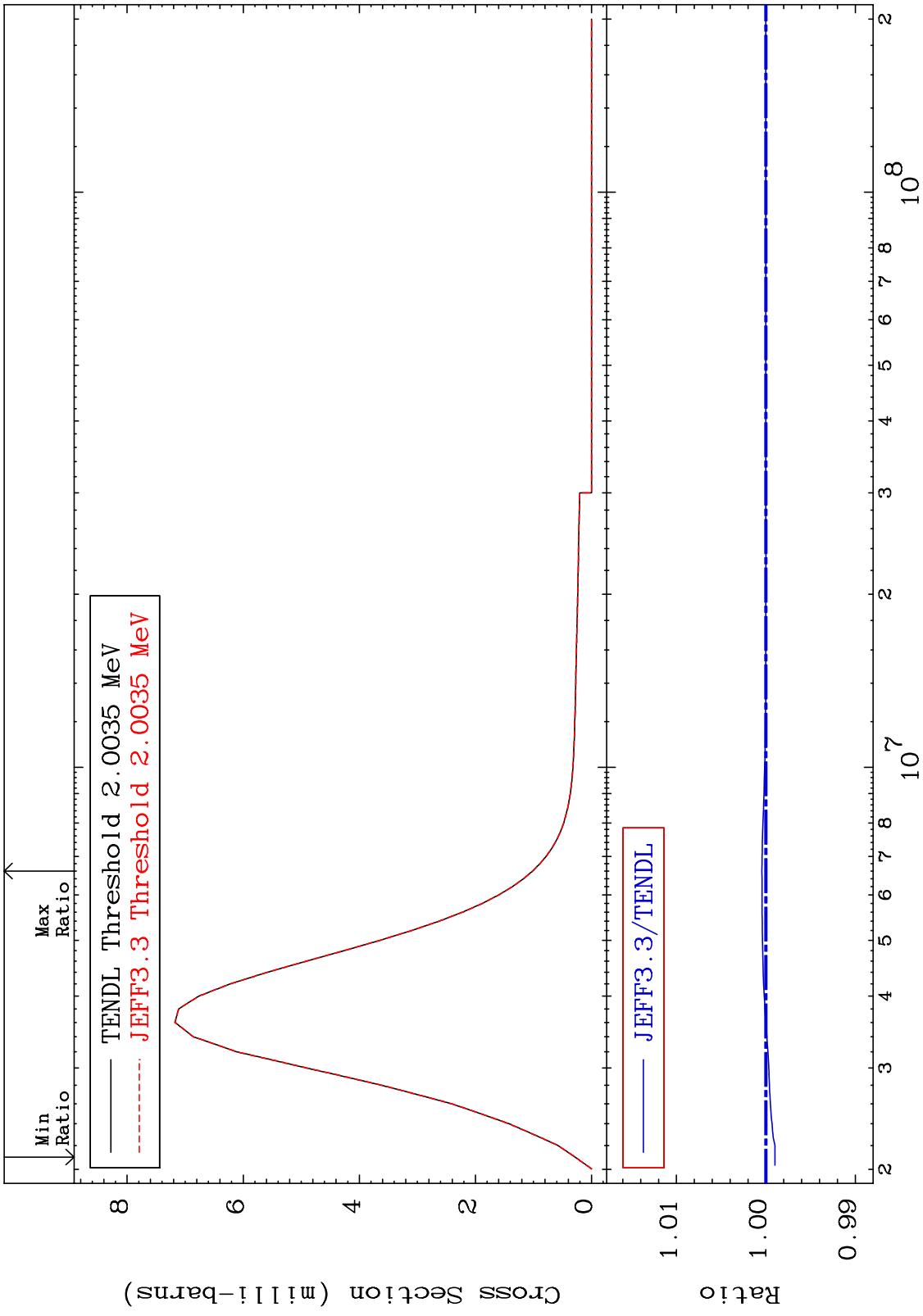
Incident Energy (eV)

36-Kr-78

MAT 3625 MT= 59 (n,n') Level Cross Section 36-Kr-78  
 -0.040 To 0.044 %



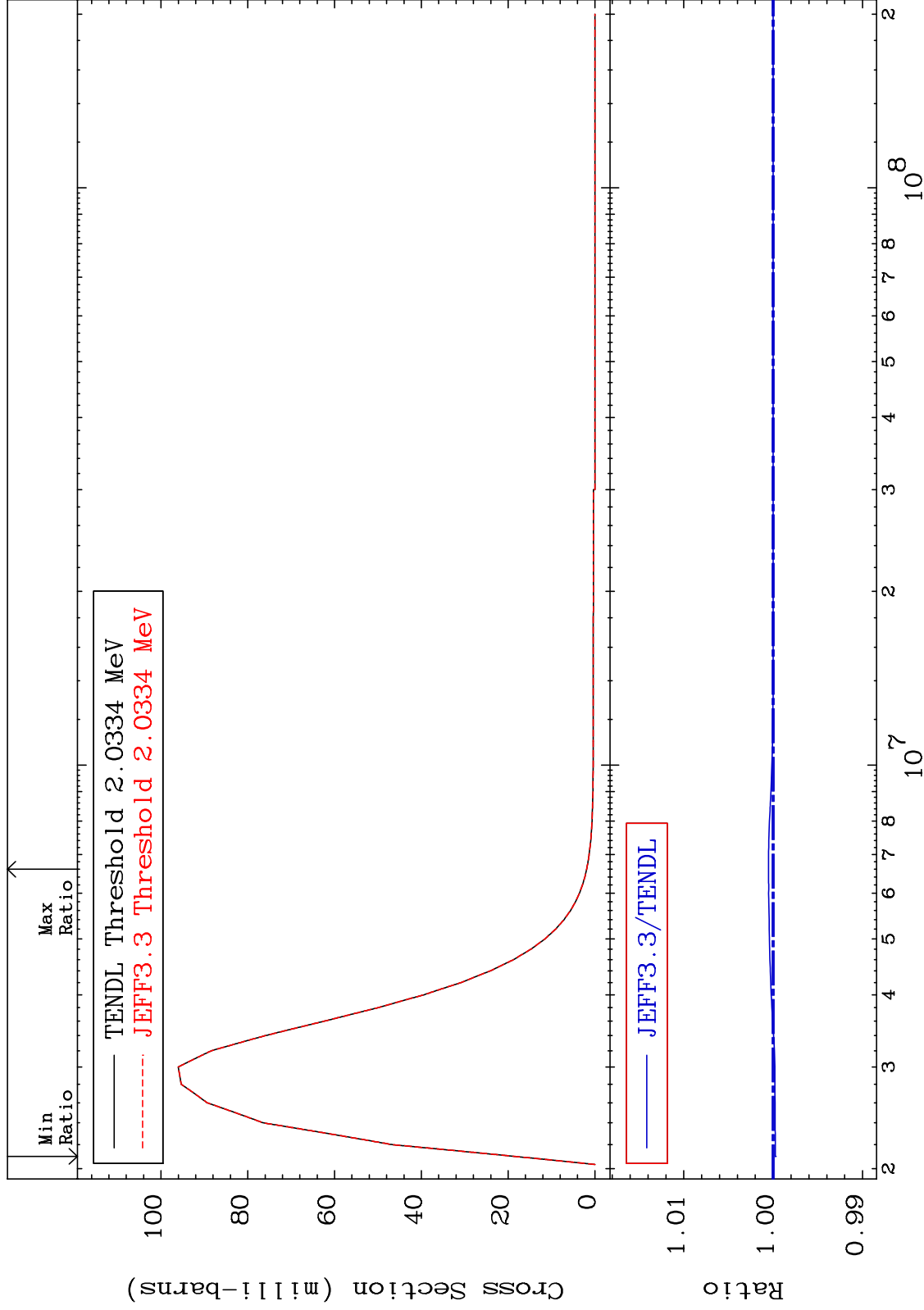
MAT 3625 MT= 60 (n,n') Level Cross Section -0.102 To 0.044 % 36-Kr-78



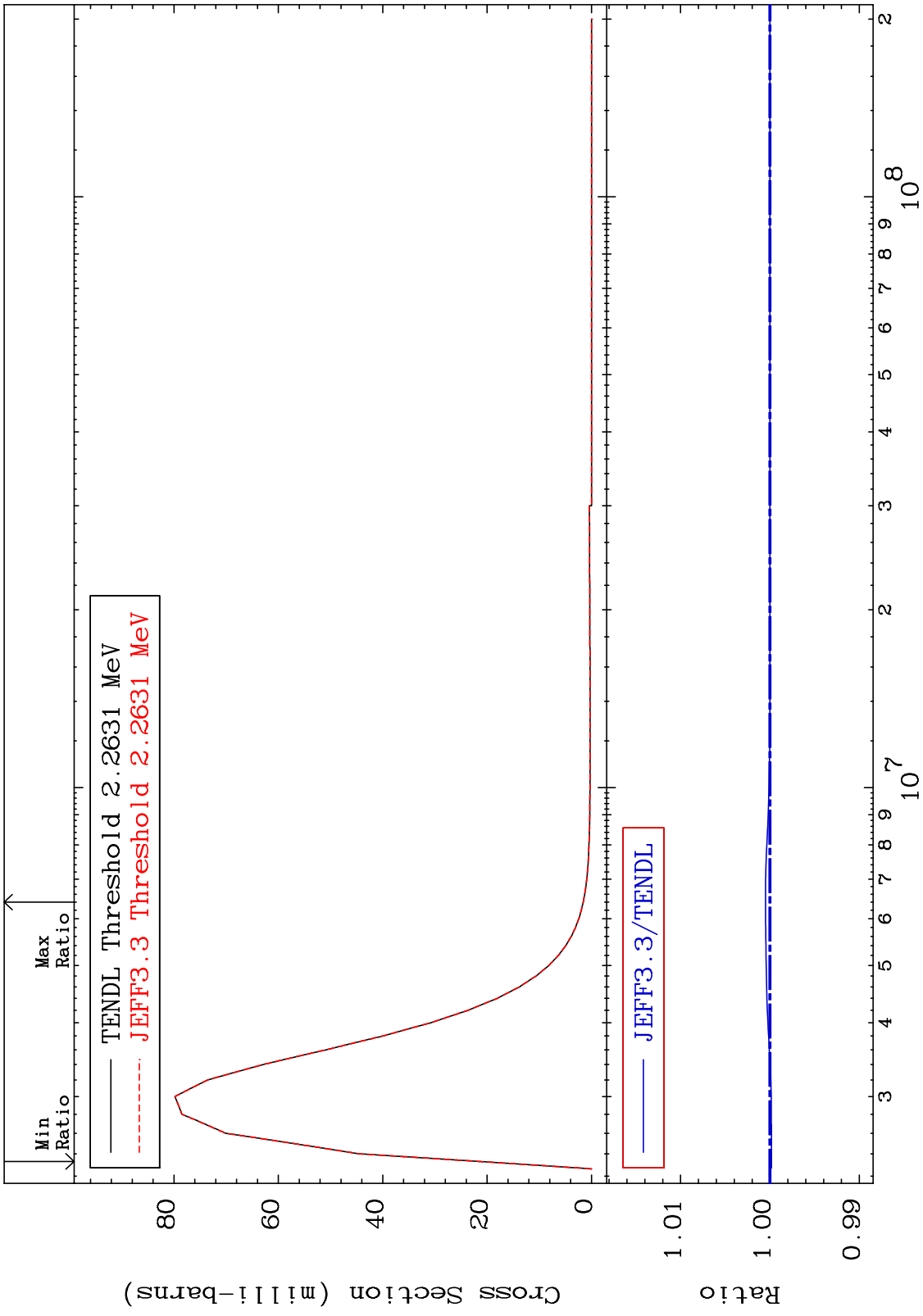
MAT 3625

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

36-Kr-78  
-0.024 To 0.053 %



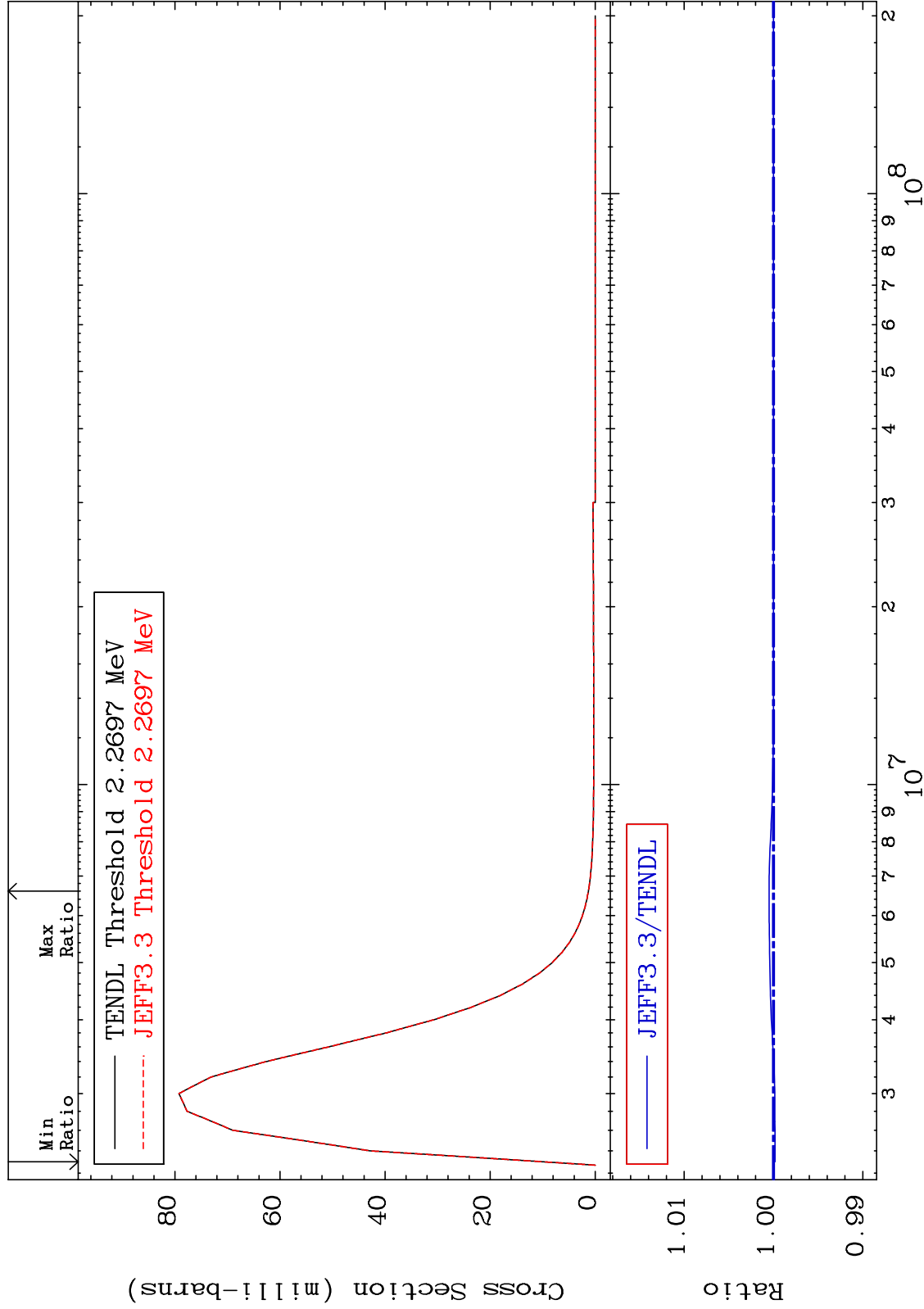
MAT 3625 MT= 62 (n,n') Level Cross Section 36-Kr-78  
 -0.016 To 0.051 %



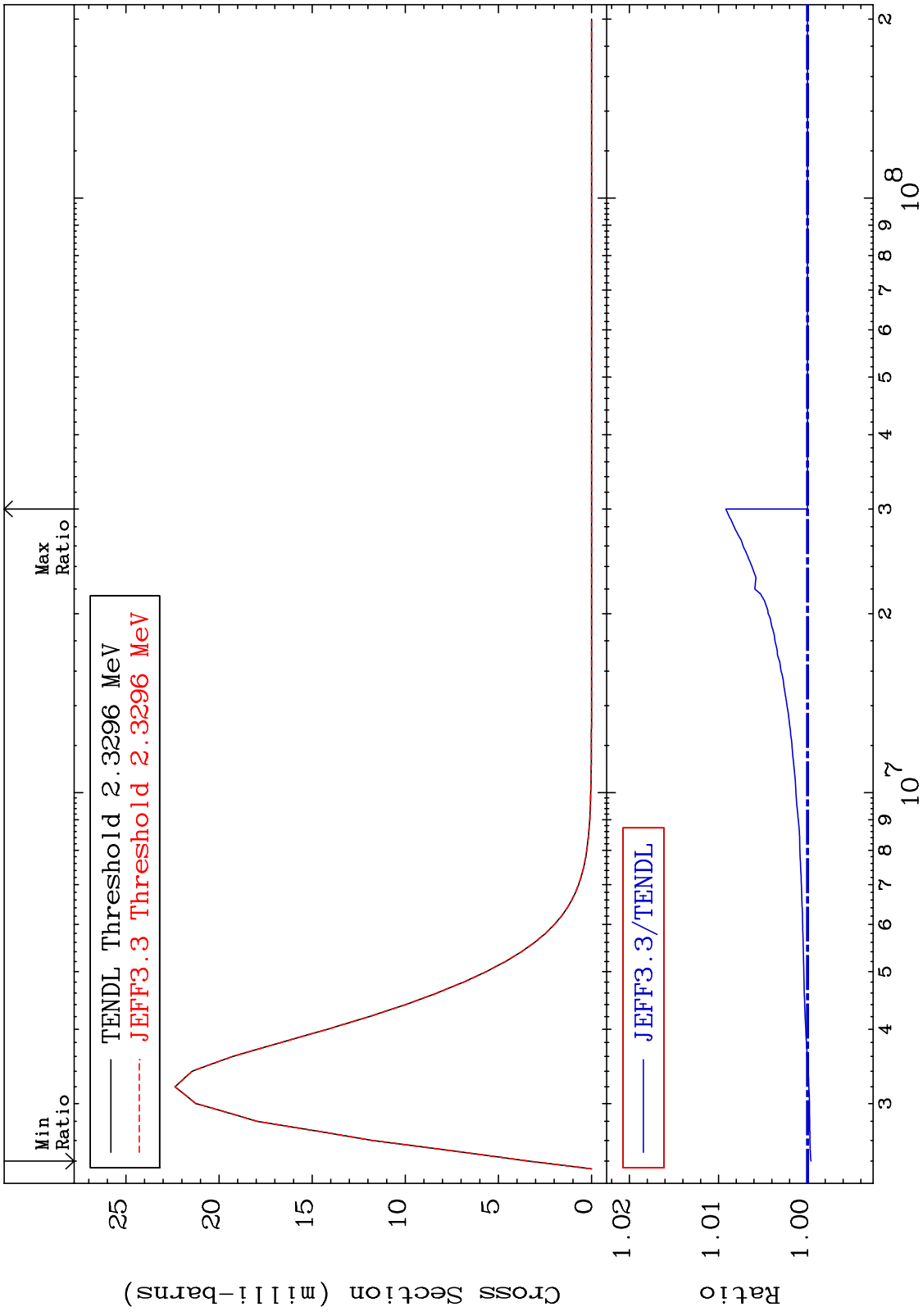
MAT 3625

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

36-Kr-78  
-0.016 To 0.050 %

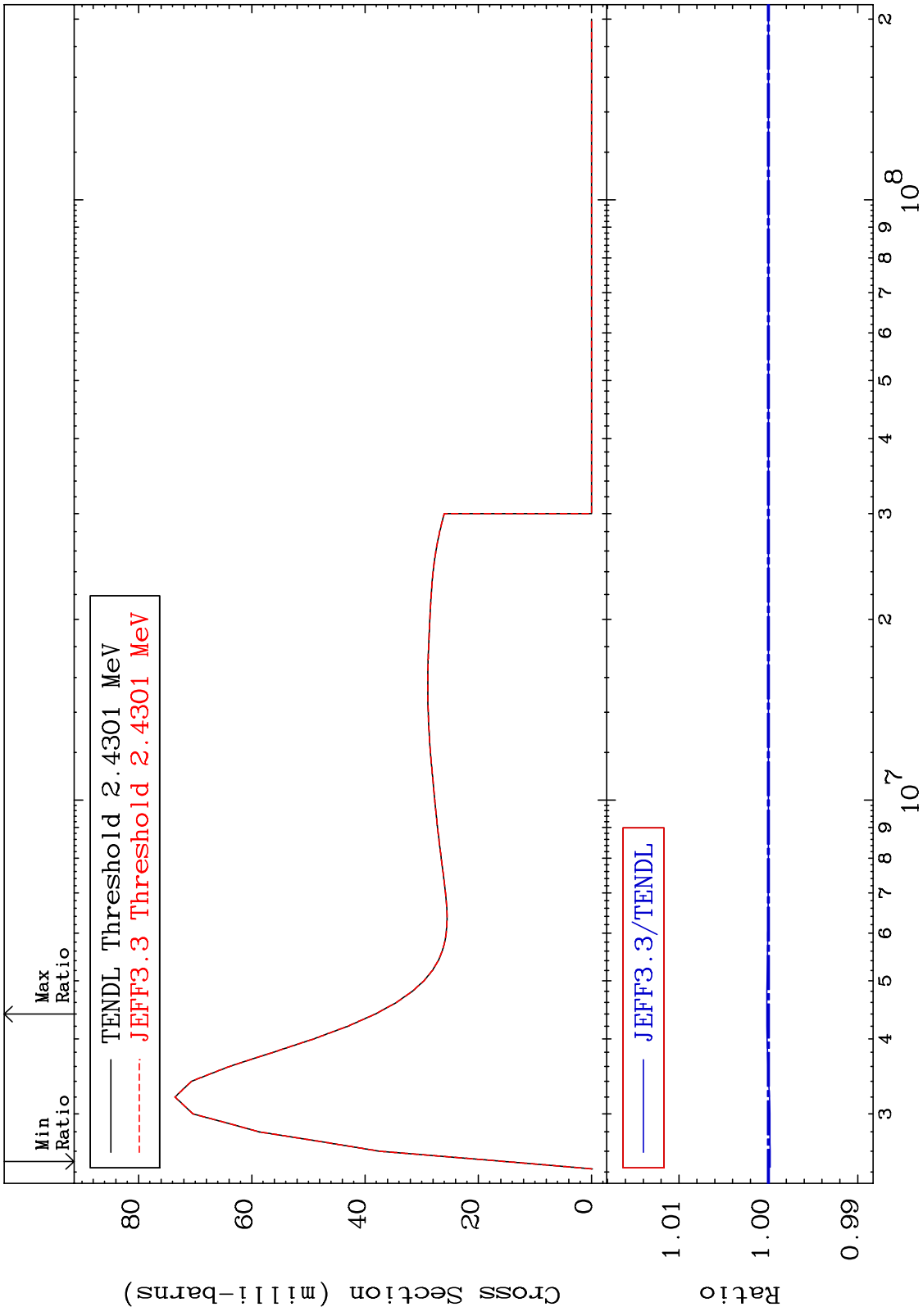


MAT 3625 MT= 64 (n,n') Level Cross Section -0.041 To 0.917 % 36-Kr-78





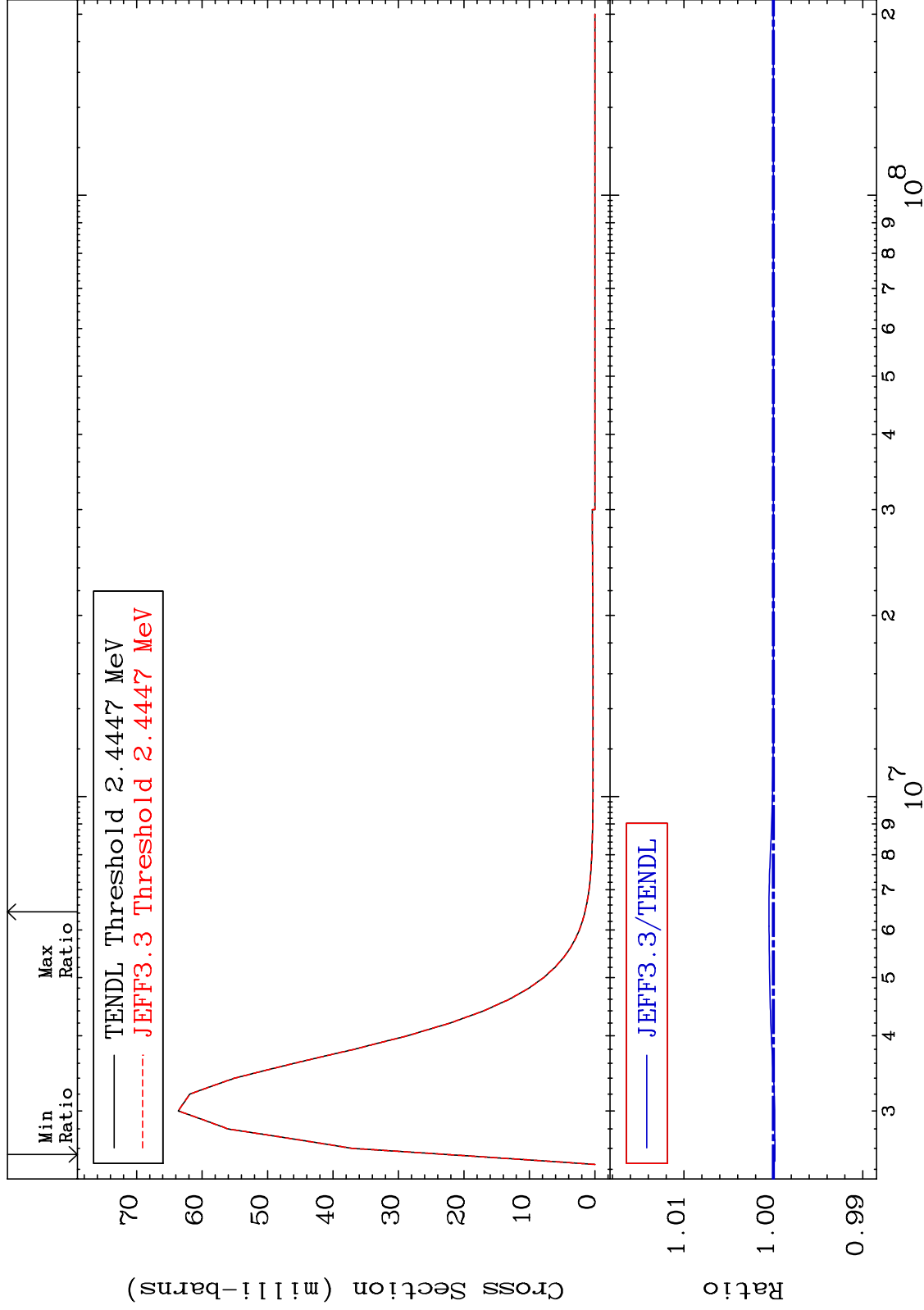
MAT 3625 MT= 65 (n,n') Level Cross Section 36-Kr-78  
 -0.019 To 0.018 %



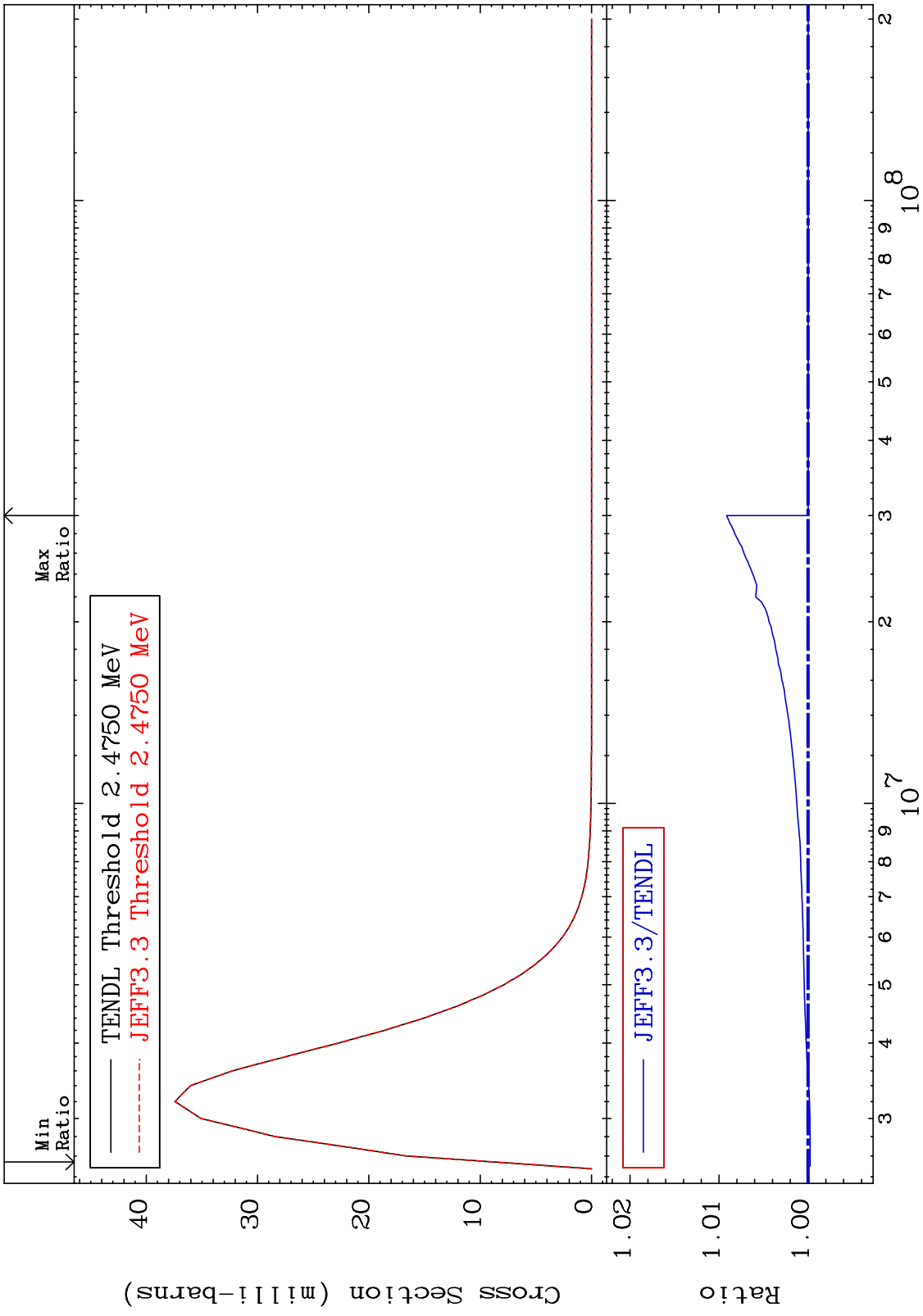
MAT 3625

MT= 66 (n,n') Level  
Cross Section

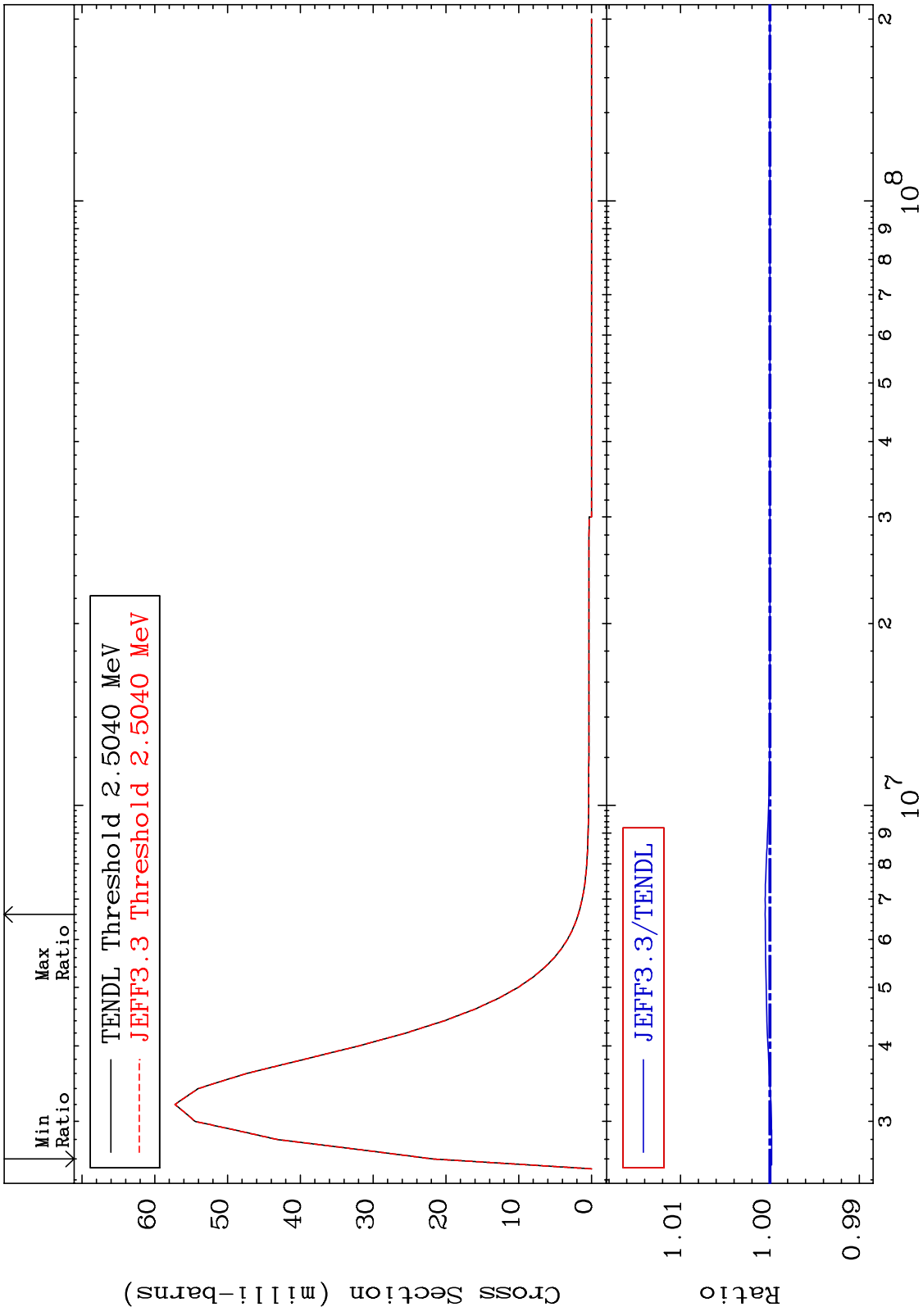
36-Kr-78  
-0.015 To 0.050 %



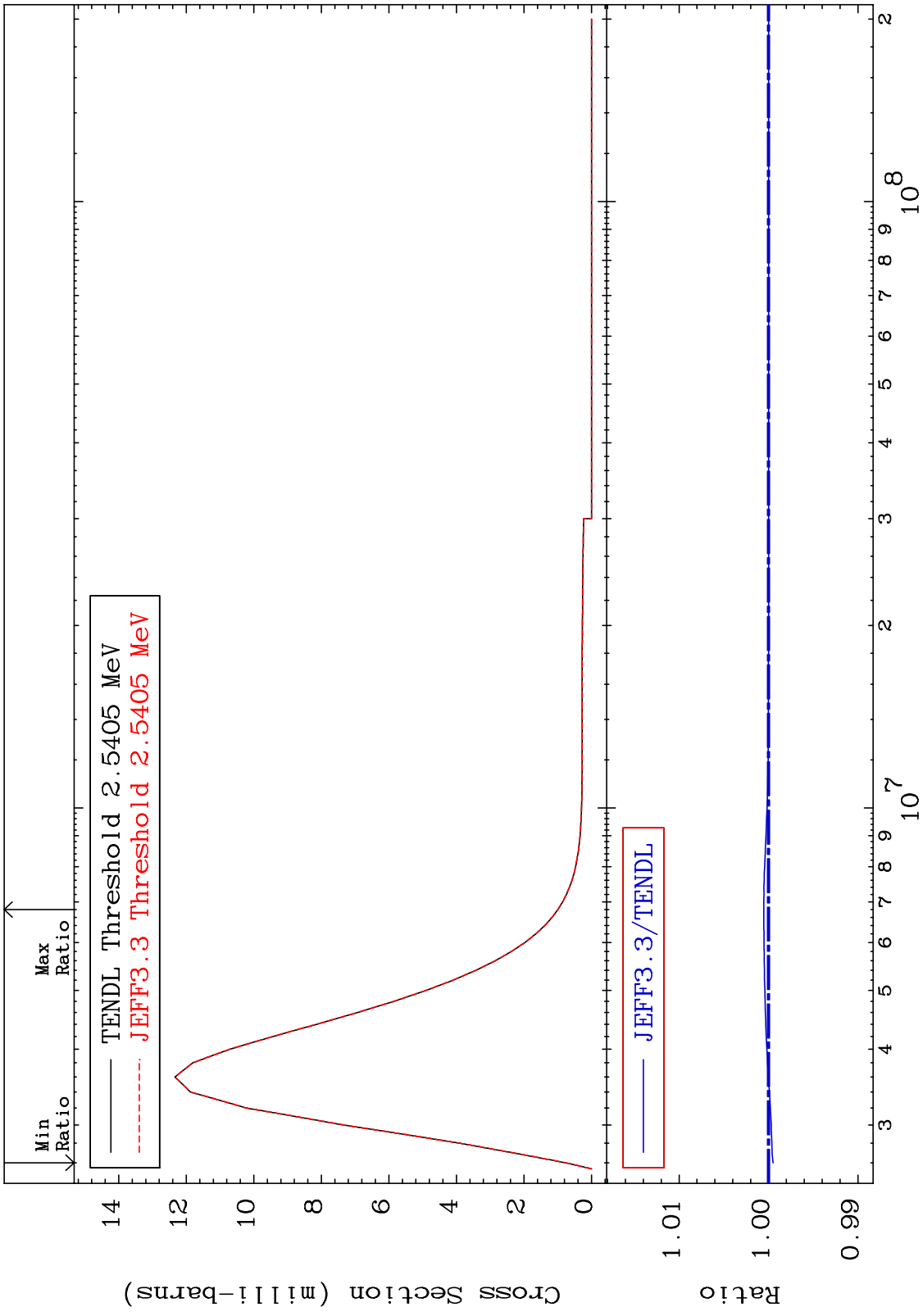
MAT 3625 MT= 67 (n,n') Level Cross Section -0.024 To 0.915 % 36-Kr-78



MAT 3625 MT= 68 (n,n') Level Cross Section -0.021 To 0.052 % 36-Kr-78



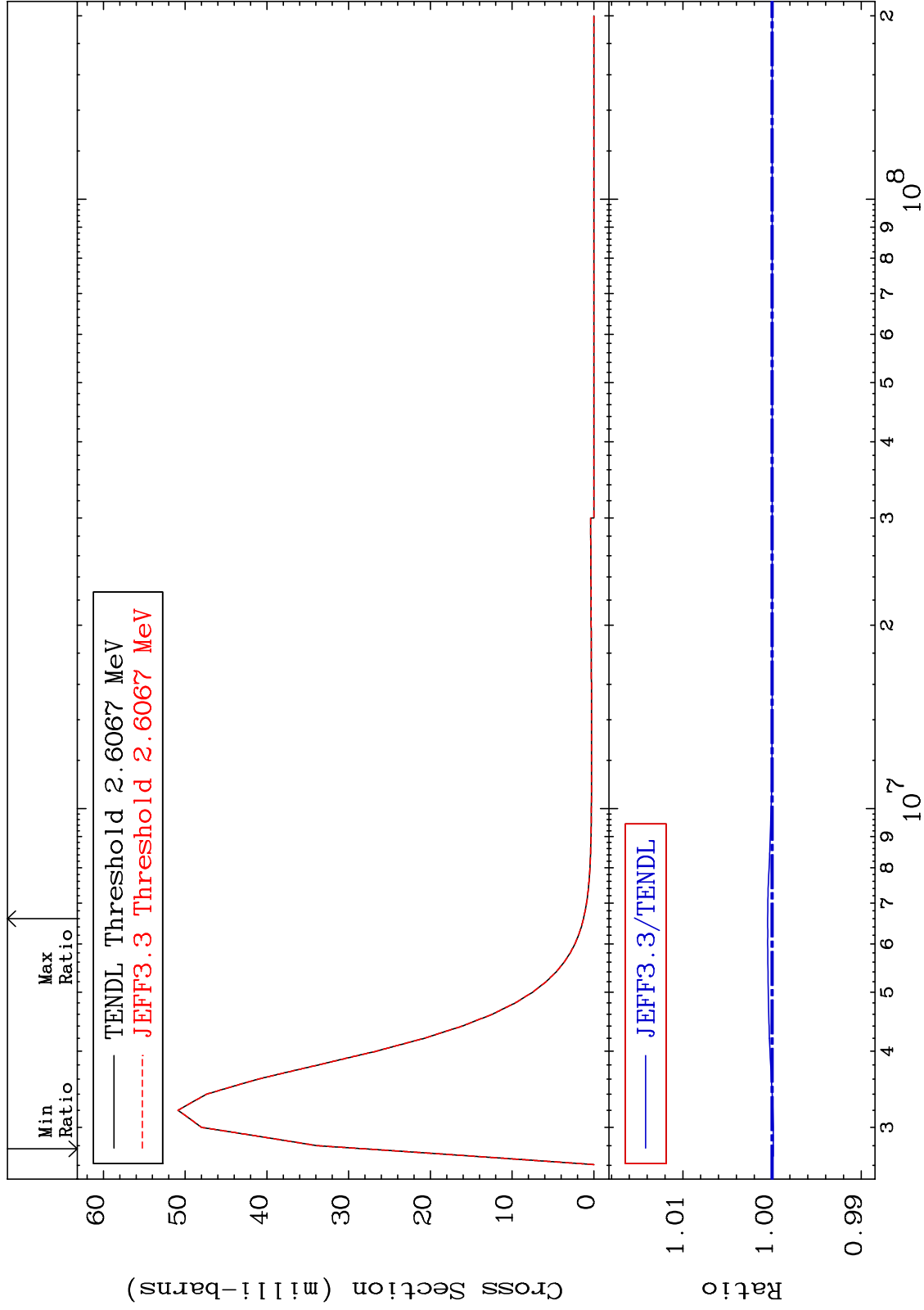
MAT 3625 MT= 69 (n,n') Level Cross Section 36-Kr-78  
 -0.052 To 0.053 %



MAT 3625

MT= 70 (n,n') Level  
Cross Section

36-Kr-78  
-0.014 To 0.050 %



37

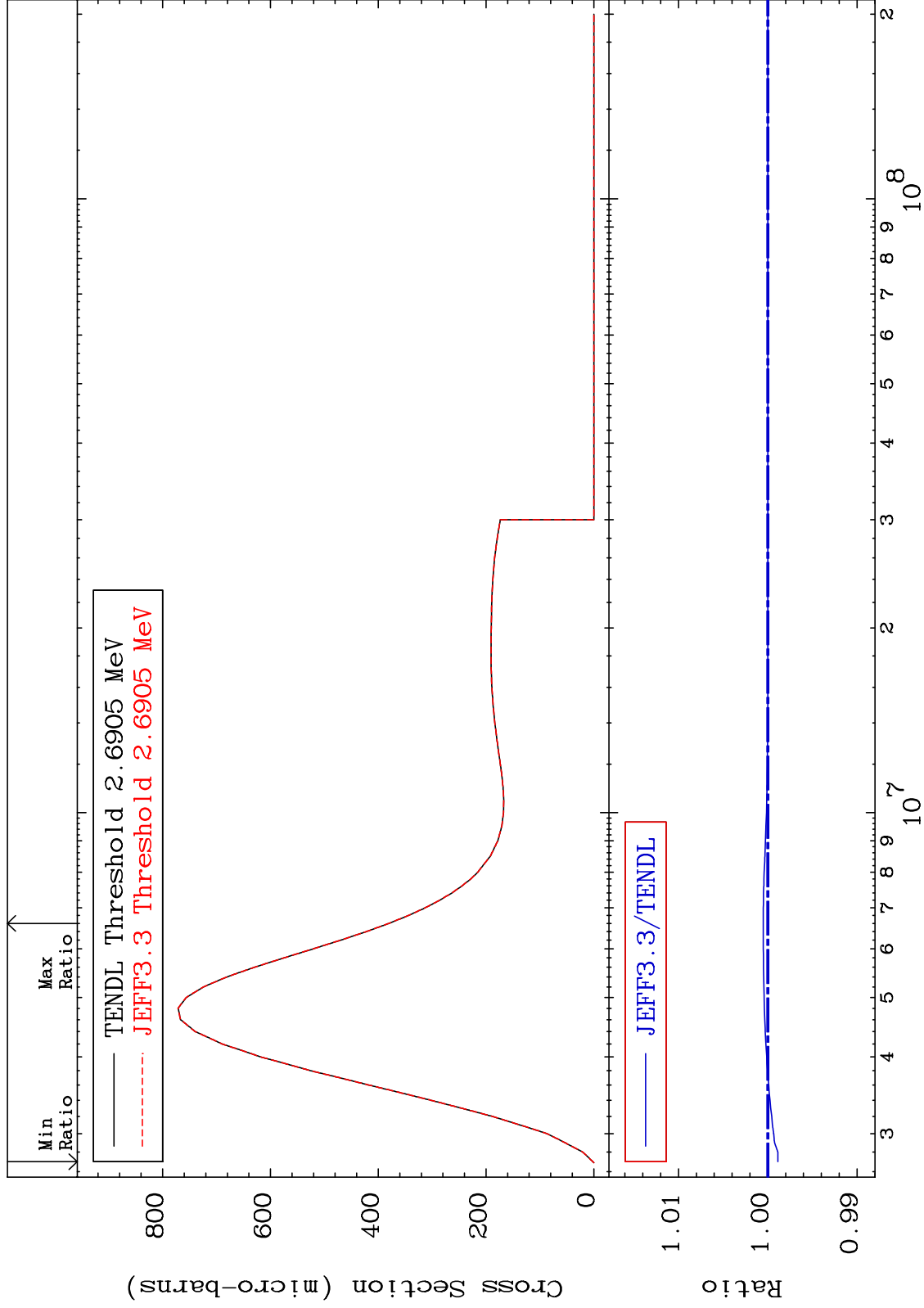
Incident Energy (eV)

36-Kr-78

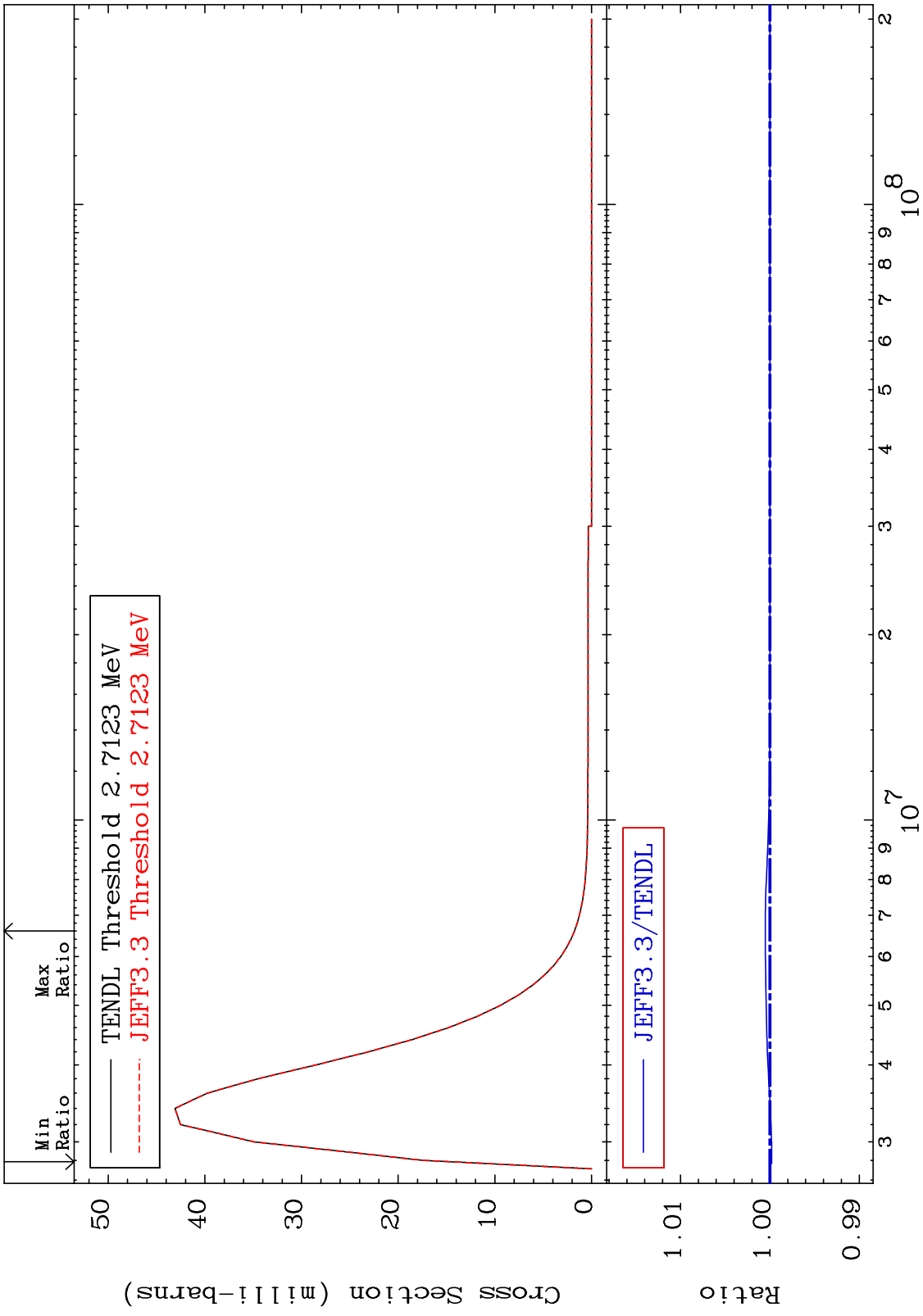
MAT 3625

MT= 71 (n,n') Level  
Cross Section

36-Kr-78  
-0.112 To 0.051 %



MAT 3625 MT= 72 (n,n') Level Cross Section 36-Kr-78  
 -0.020 To 0.052 %

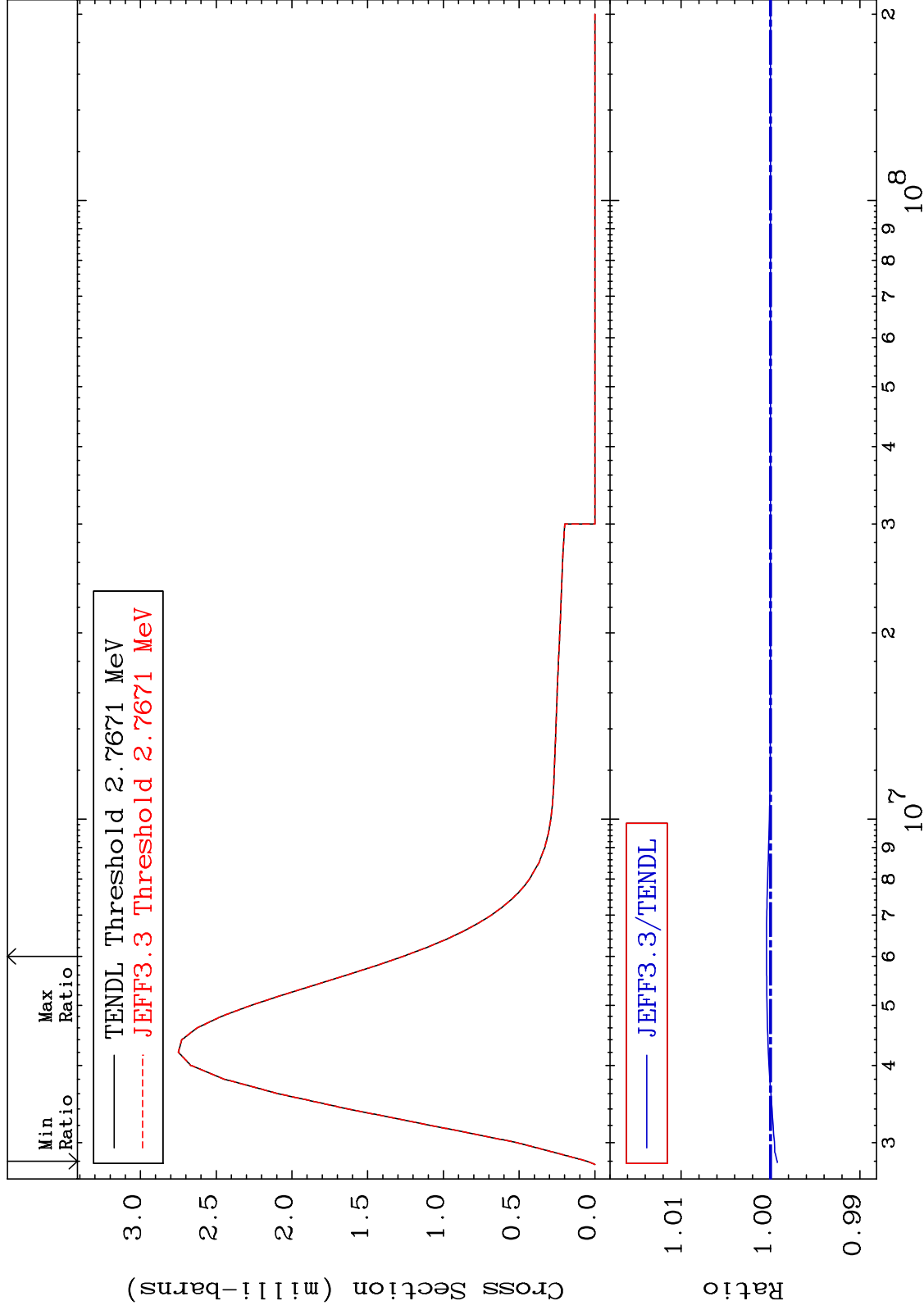




MAT 3625

MT= 73 (n,n') Level  
Cross Section

36-Kr-78  
-0.075 To 0.044 %

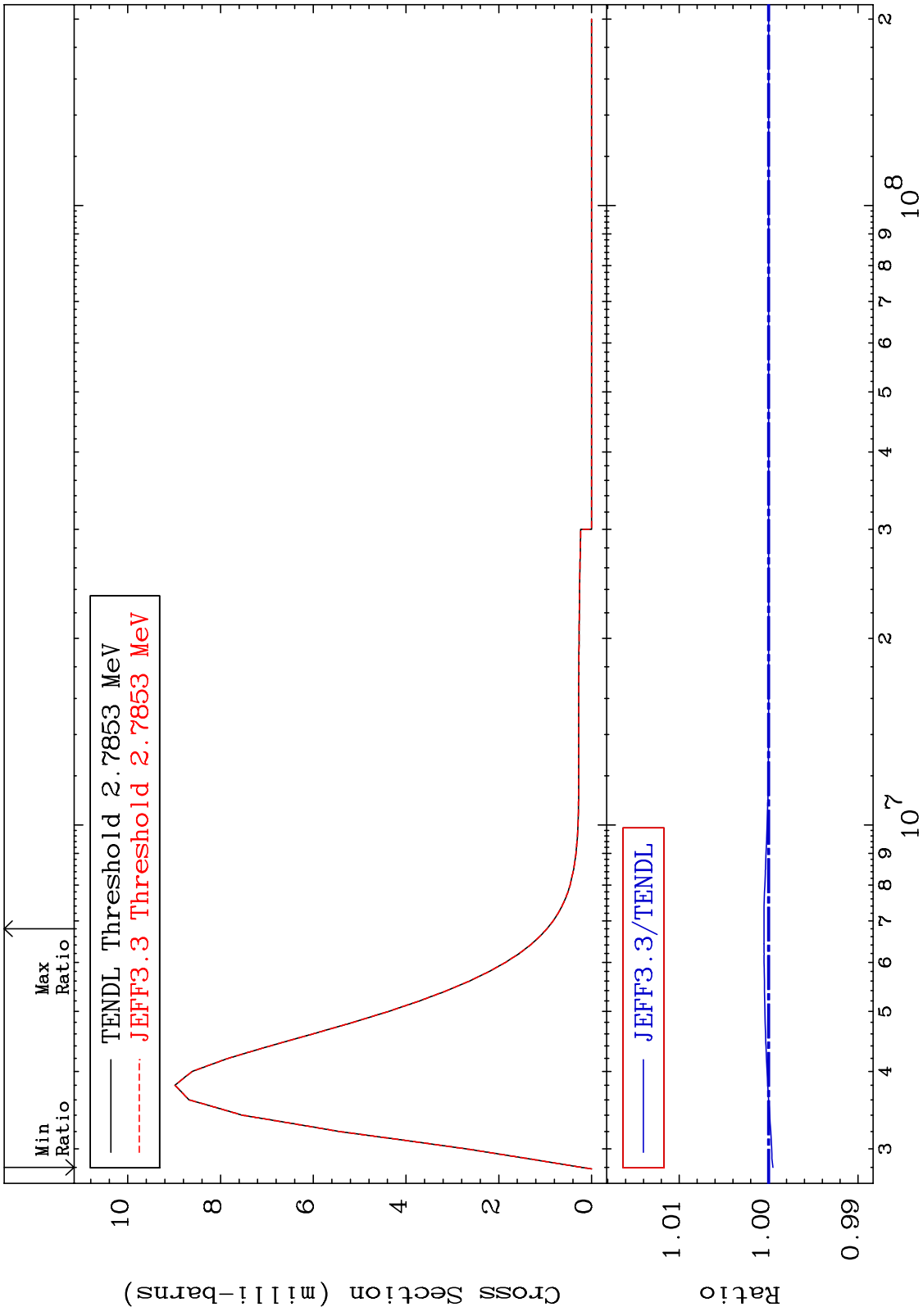


40

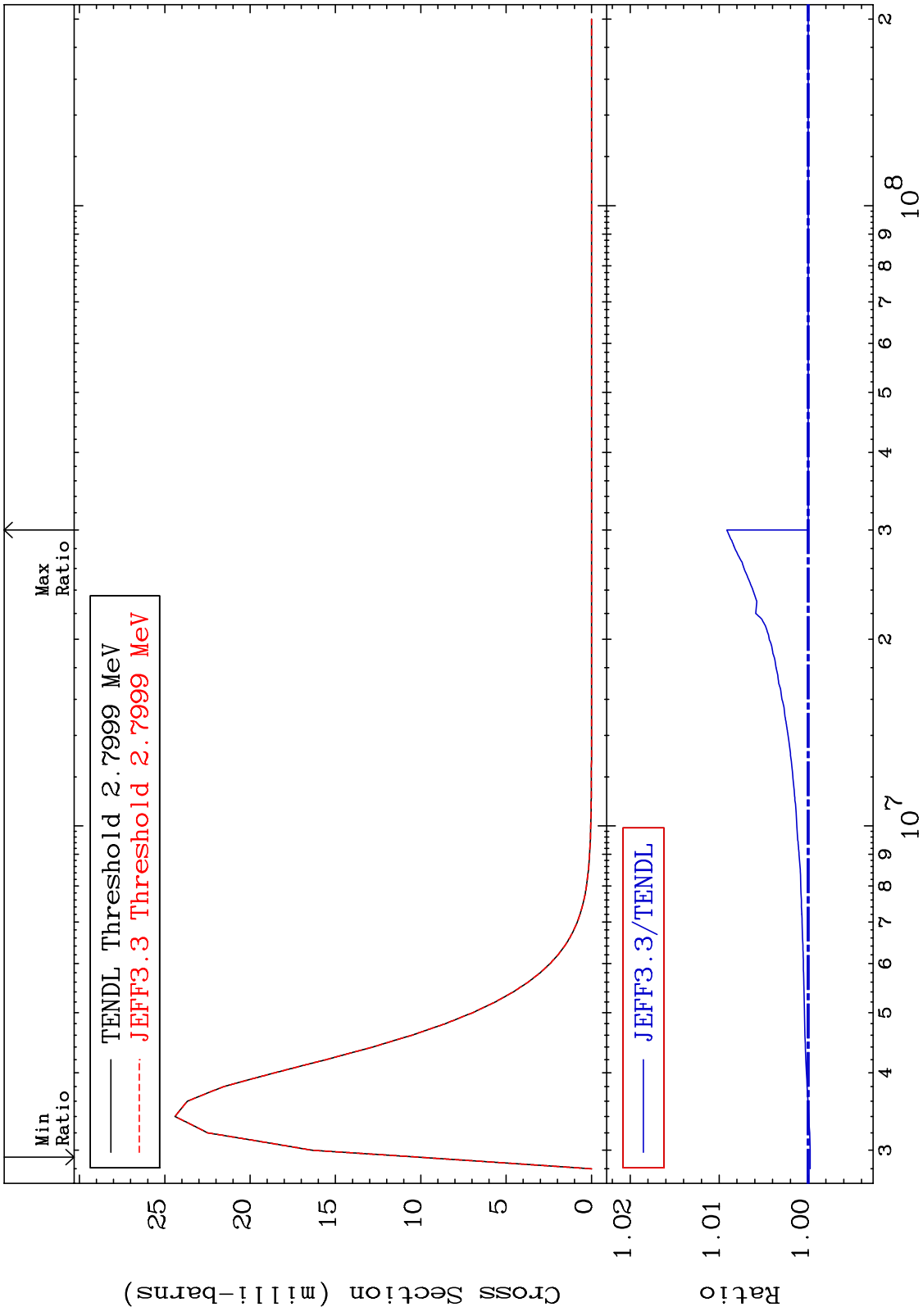
Incident Energy (eV)

36-Kr-78

MAT 3625 MT= 74 (n,n') Level Cross Section 36-Kr-78  
 -0.048 To 0.053 %



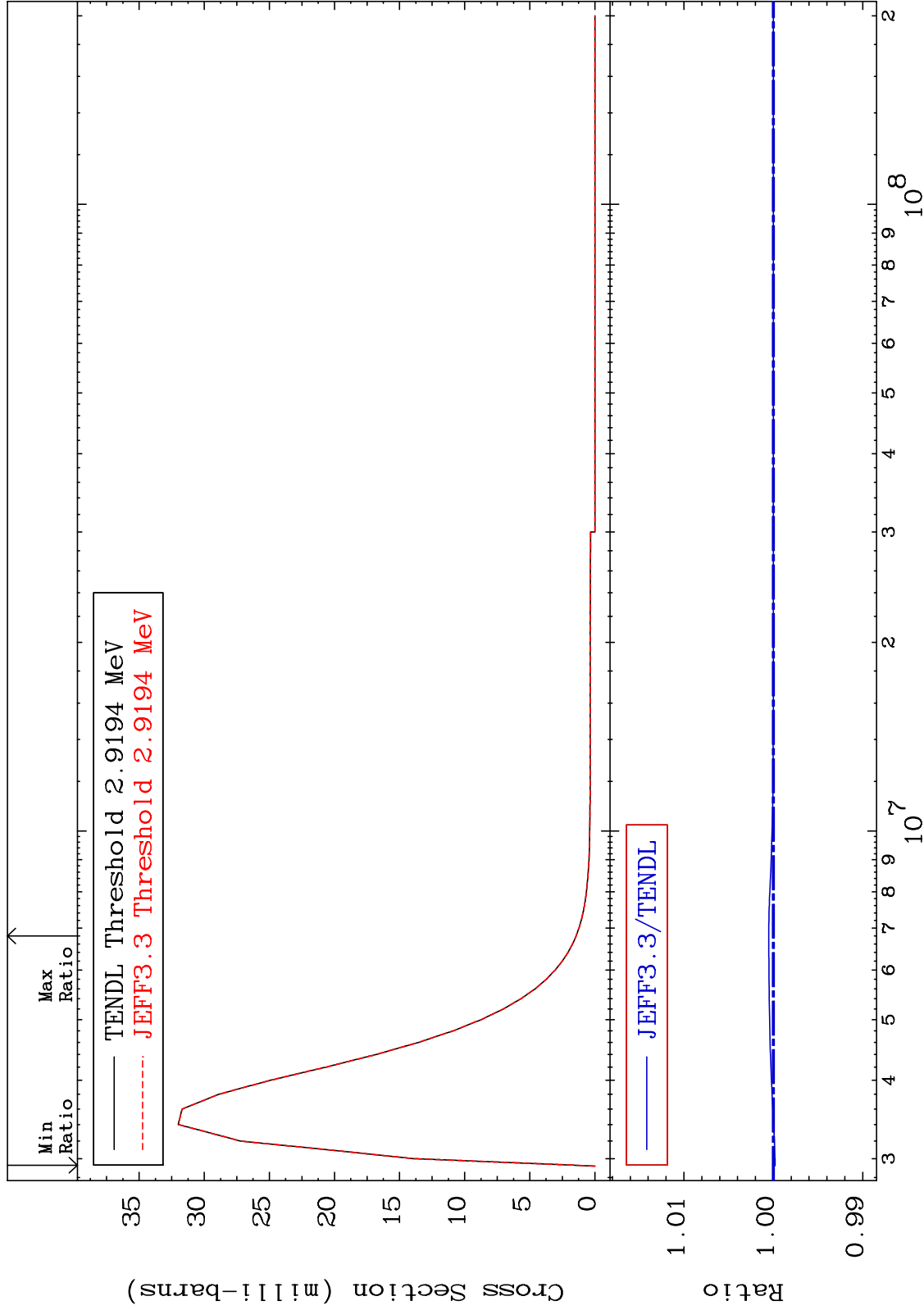
MAT 3625 MT= 75 (n,n') Level Cross Section -0.021 To 0.915 % 36-Kr-78



MAT 3625

MT= 76 (n,n') Level  
Cross Section

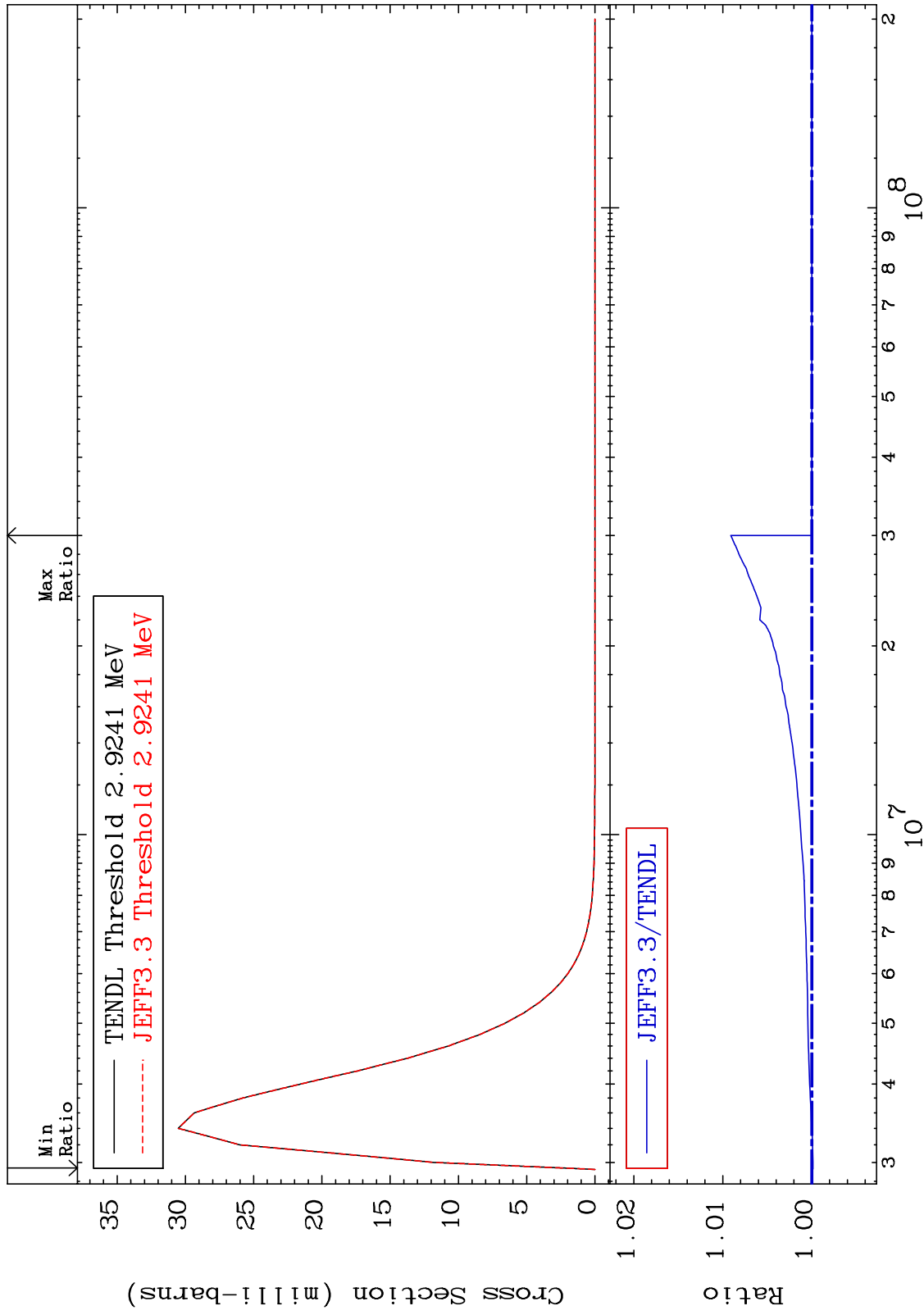
36-Kr-78  
-0.019 To 0.051 %



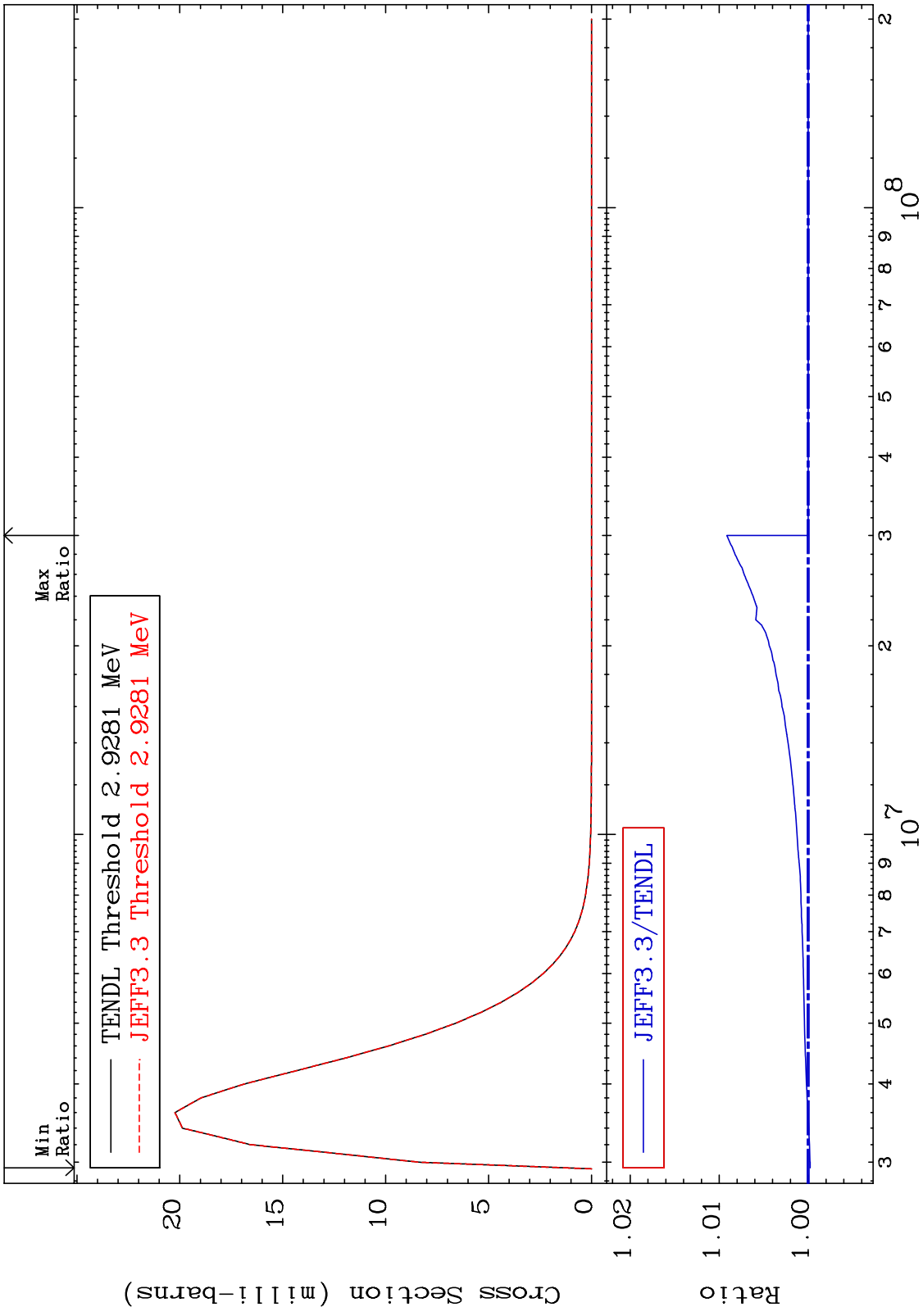
MAT 3625

MT= 77 (n,n') Level  
Cross Section

36-Kr-78  
-0.013 To 0.910 %



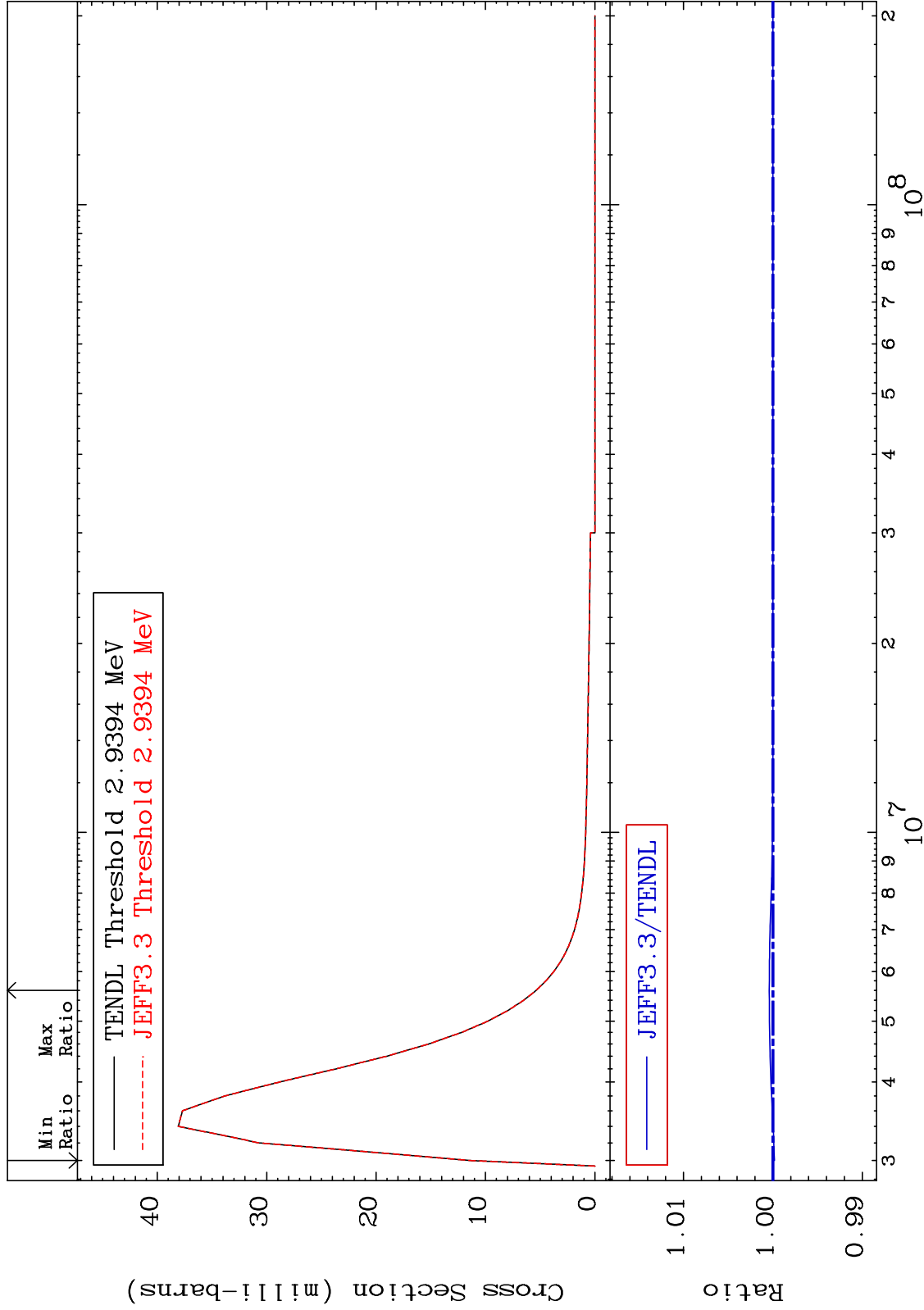
MAT 3625 MT= 78 (n, n') Level Cross Section -0.020 To 0.915 % 36-Kr-78



MAT 3625

MT= 79 (n,n') Level  
Cross Section

36-Kr-78  
-0.017 To 0.040 %



46

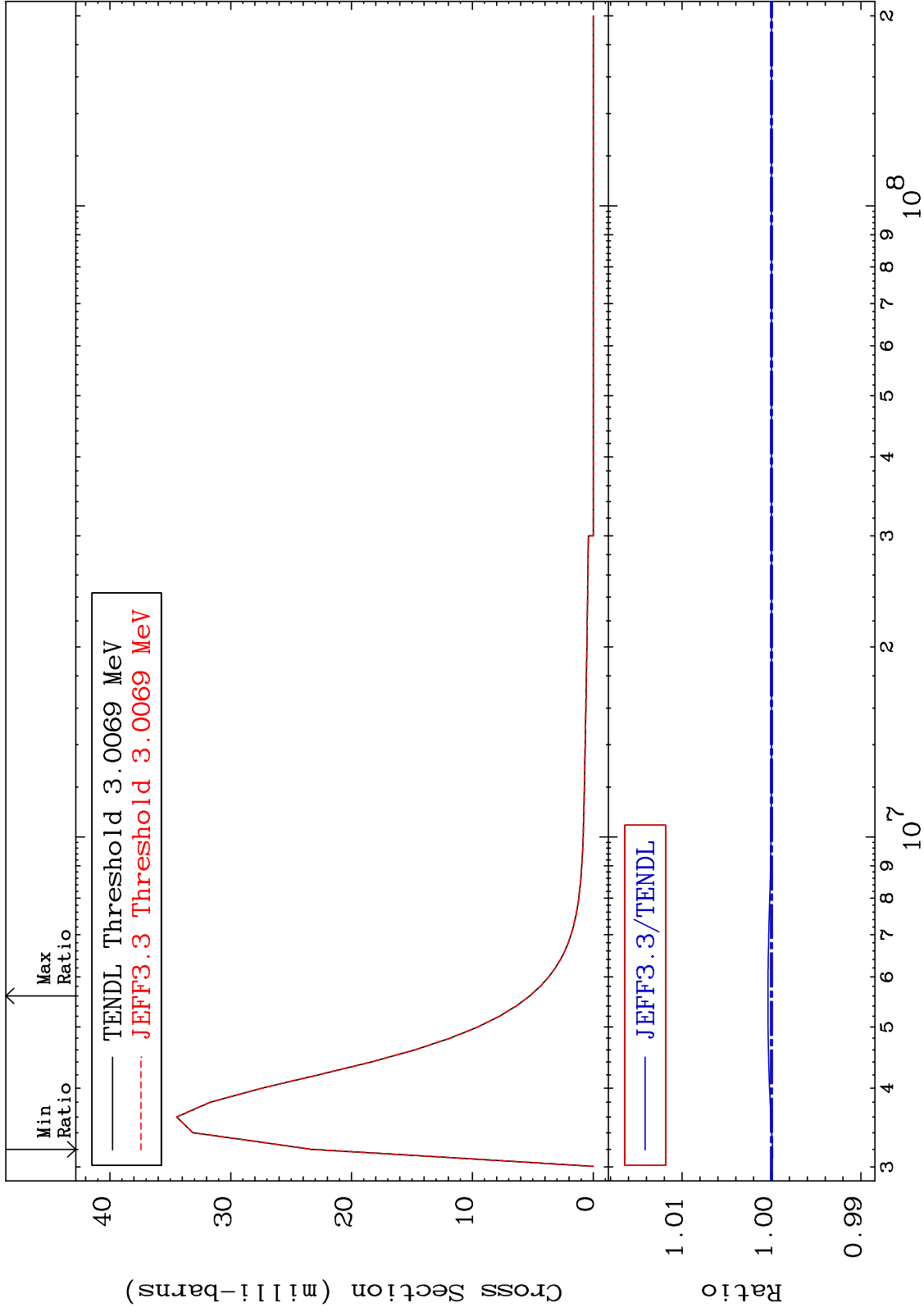
36-Kr-78

36-Kr-78

MAT 3625

MT= 80 (n,n') Level  
Cross Section

36-Kr-78  
-0.011 To 0.040 %



47

Incident Energy (eV)

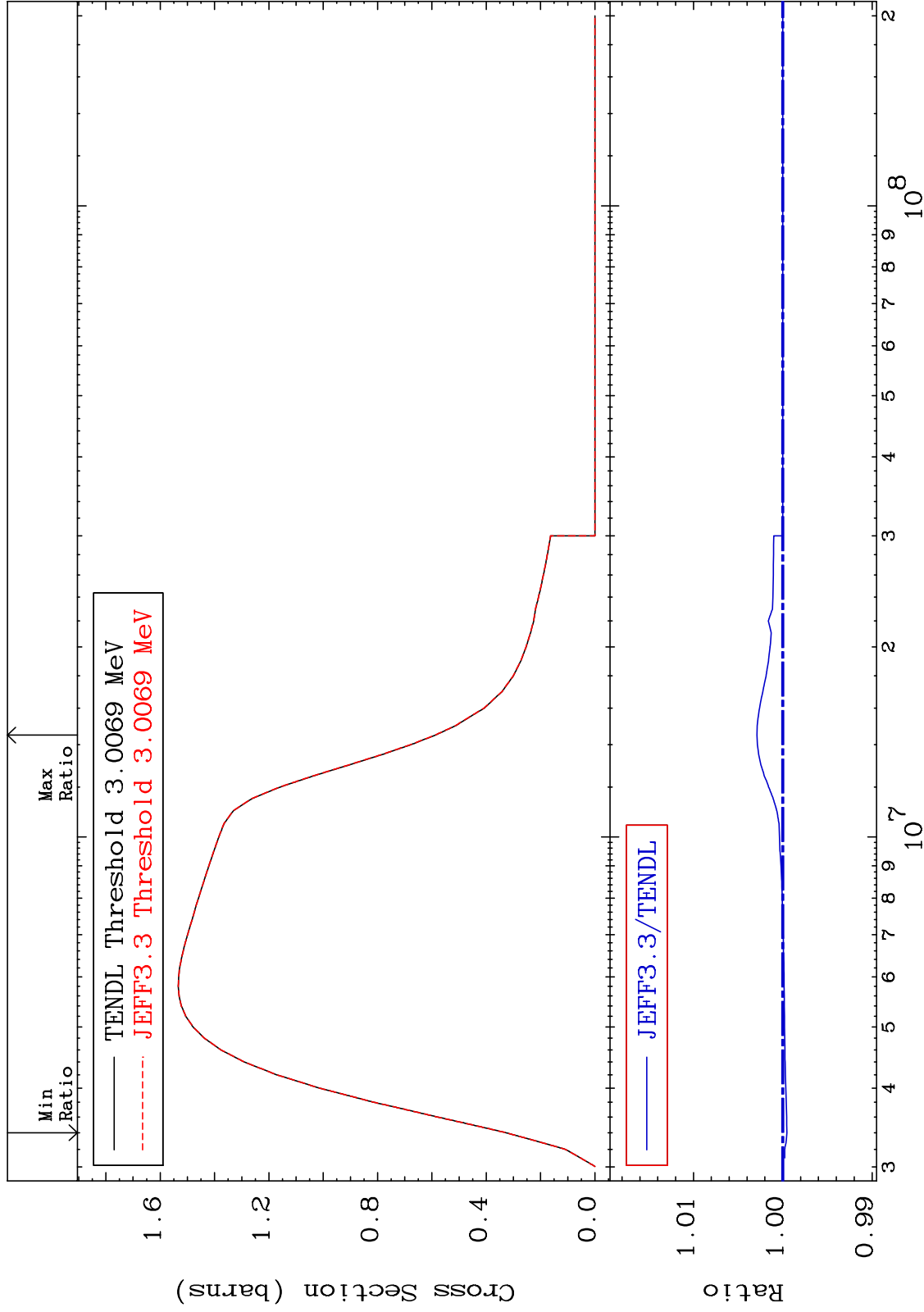
36-Kr-78



MAT 3625

(n, n') Continuum  
Cross Section

36-Kr-78  
-0.045 To 0.289 %



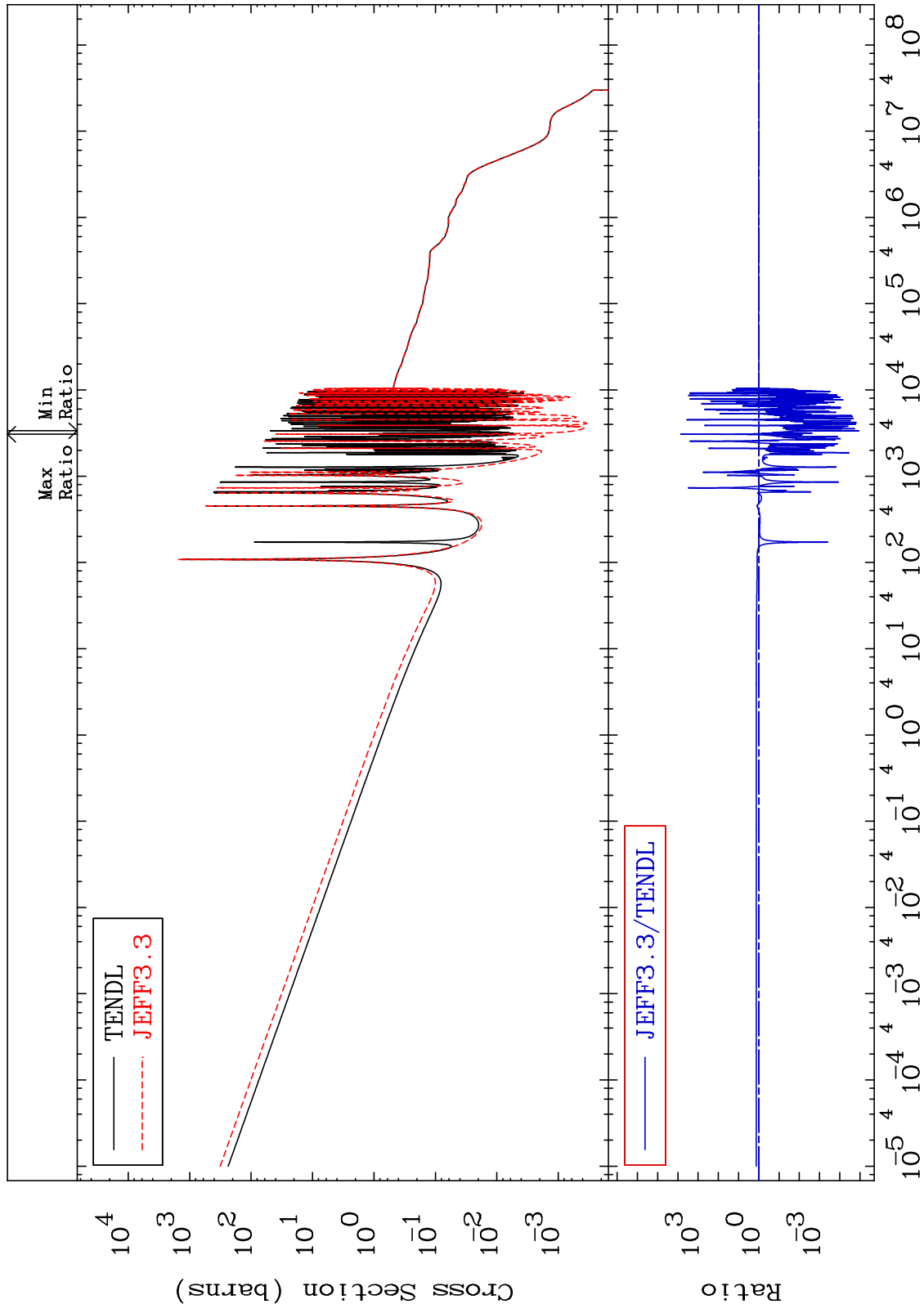
MAT 3625

(n,  $\gamma$ )

36-Kr-78

-100.0 To 9999. %

Cross Section



MAT 3625

(n,p)

<sup>36</sup>Kr-78

Cross Section

-4.674 To 0.249 %

Min Ratio

Max Ratio

TENDL Threshold 9.7170 keV  
JEFF3.3 Threshold 10.465 keV

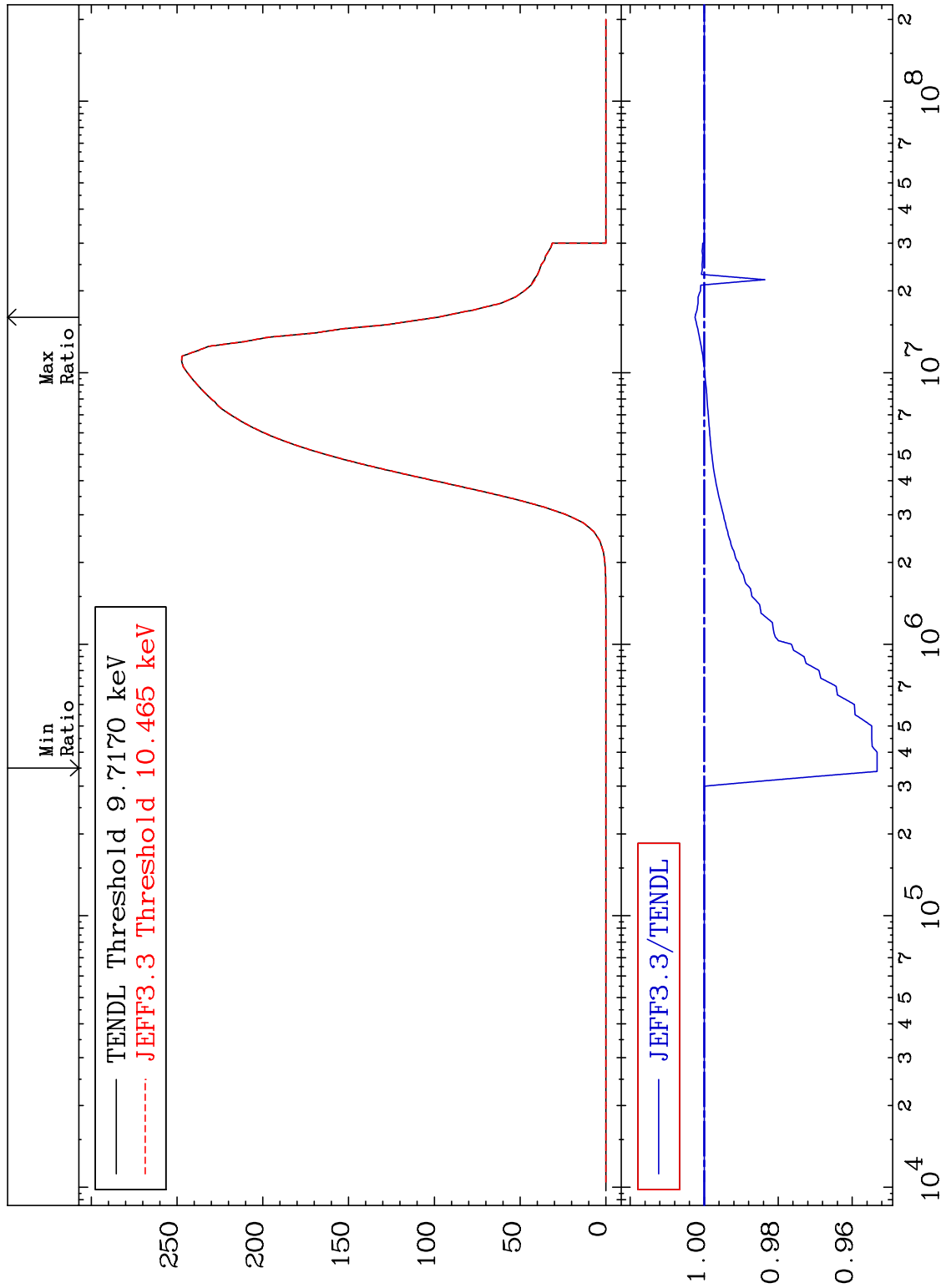
JEFF3.3/TENDL

Cross Section (milli-barns)

Ratio

Incident Energy (eV)

<sup>36</sup>Kr-78



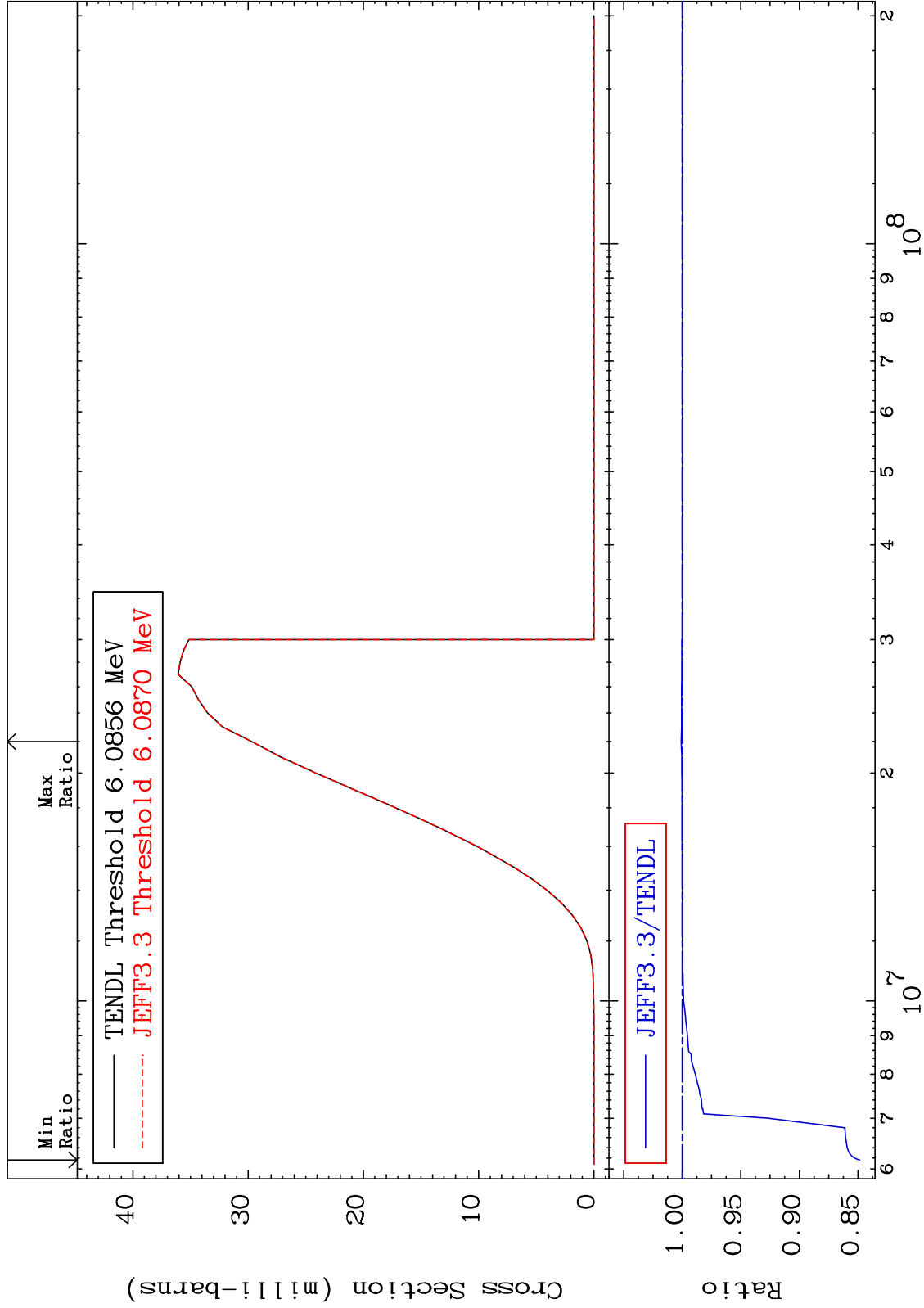
MAT 3625

(n,d)

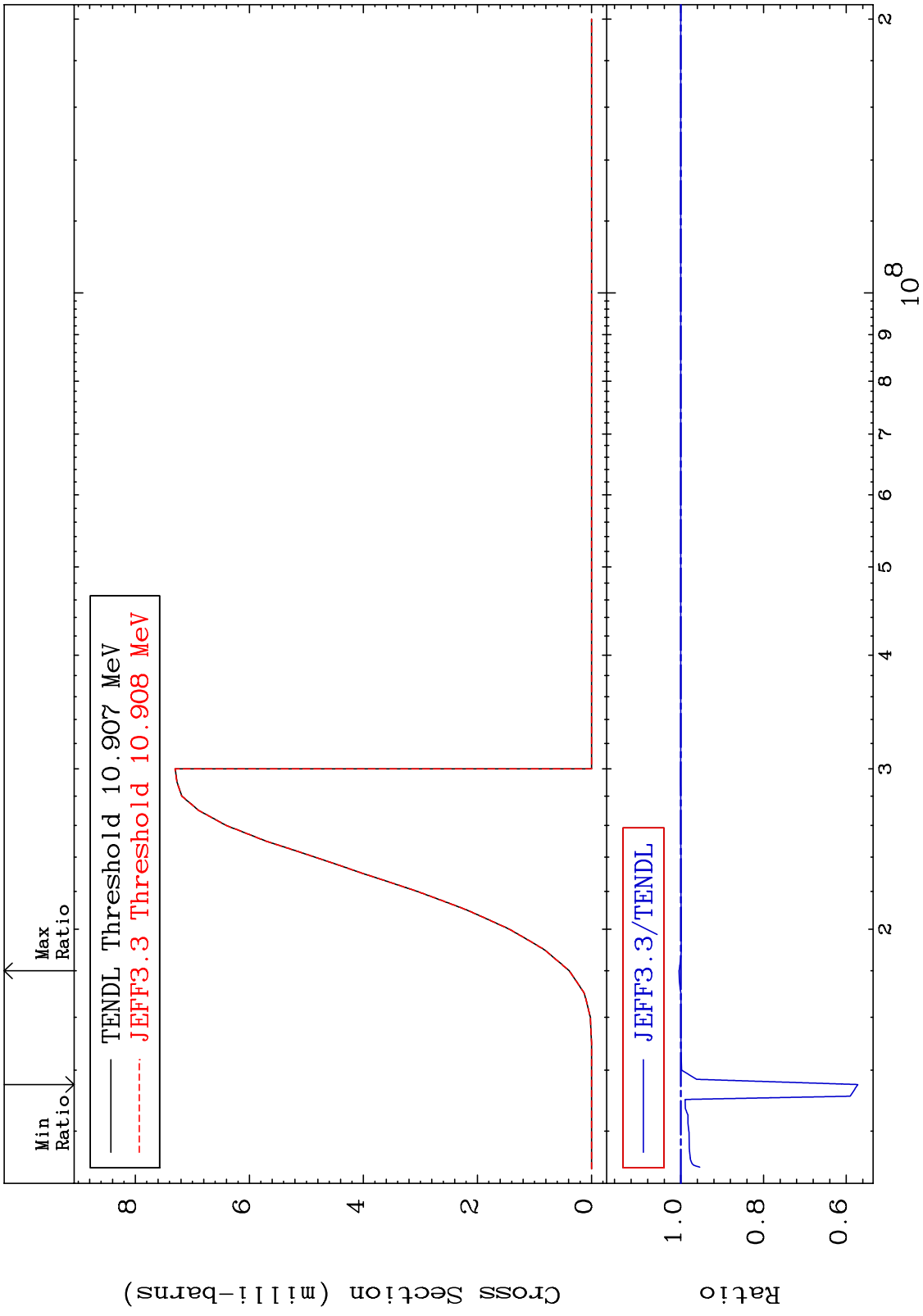
36-Kr-78

Cross Section

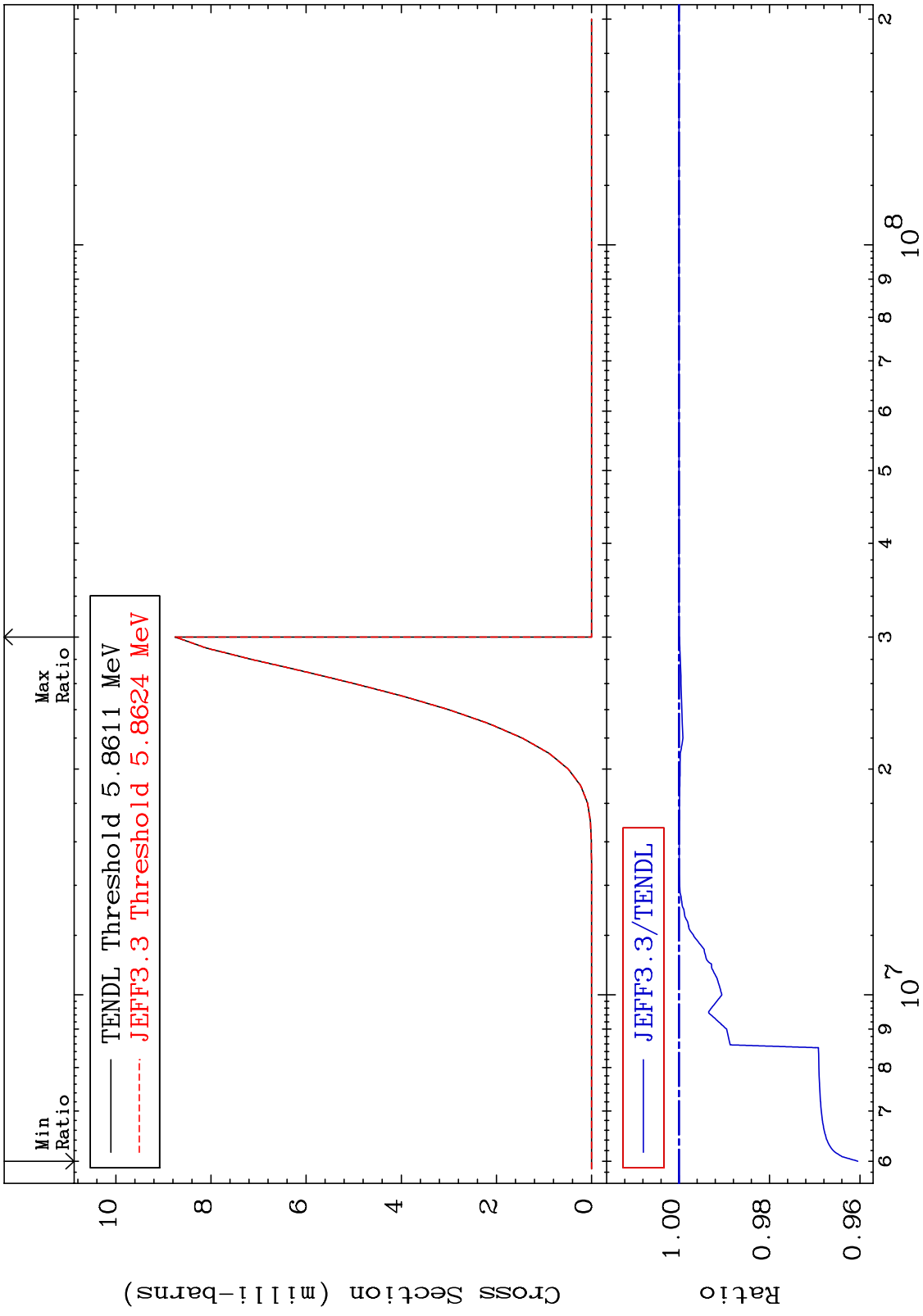
-15.16 To 0.089 %



MAT 3625 (n,t) Cross Section 36-Kr-78  
 -42.79 To 0.423 %



36-Kr-78



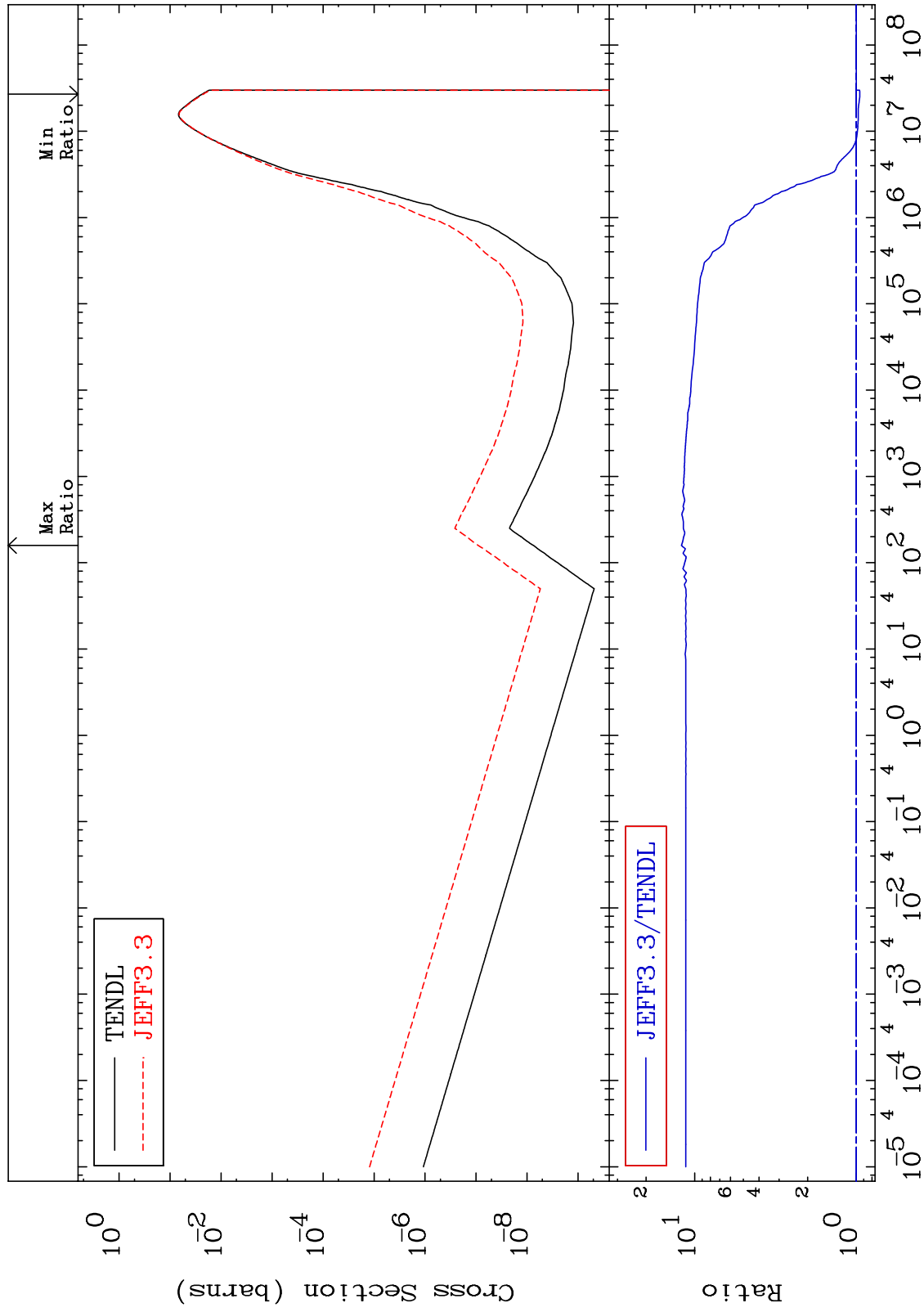
MAT 3625

(n,  $\alpha$ )

36-Kr-78

Cross Section

-4.875 To 1107. %

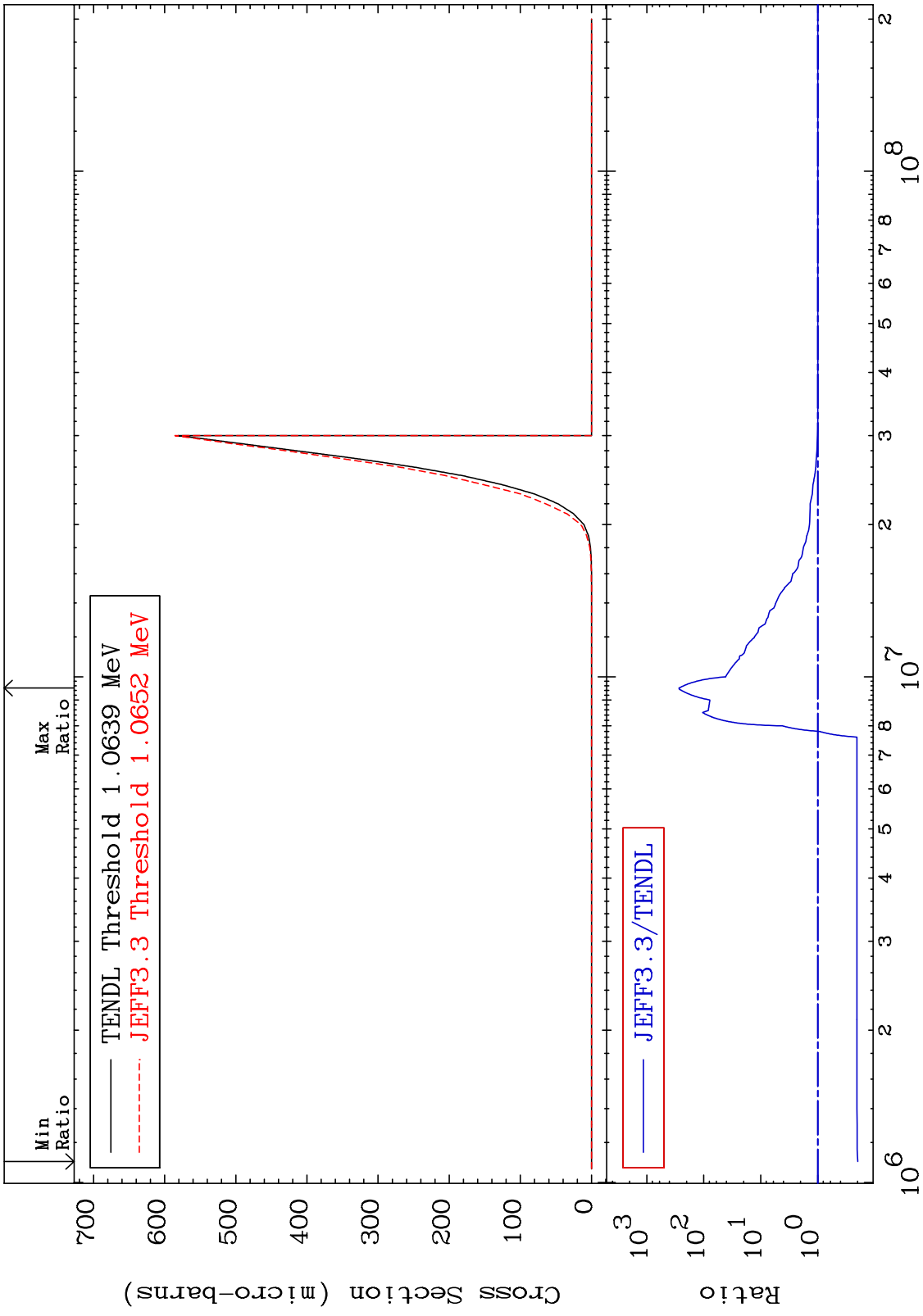


54

Incident Energy (eV)

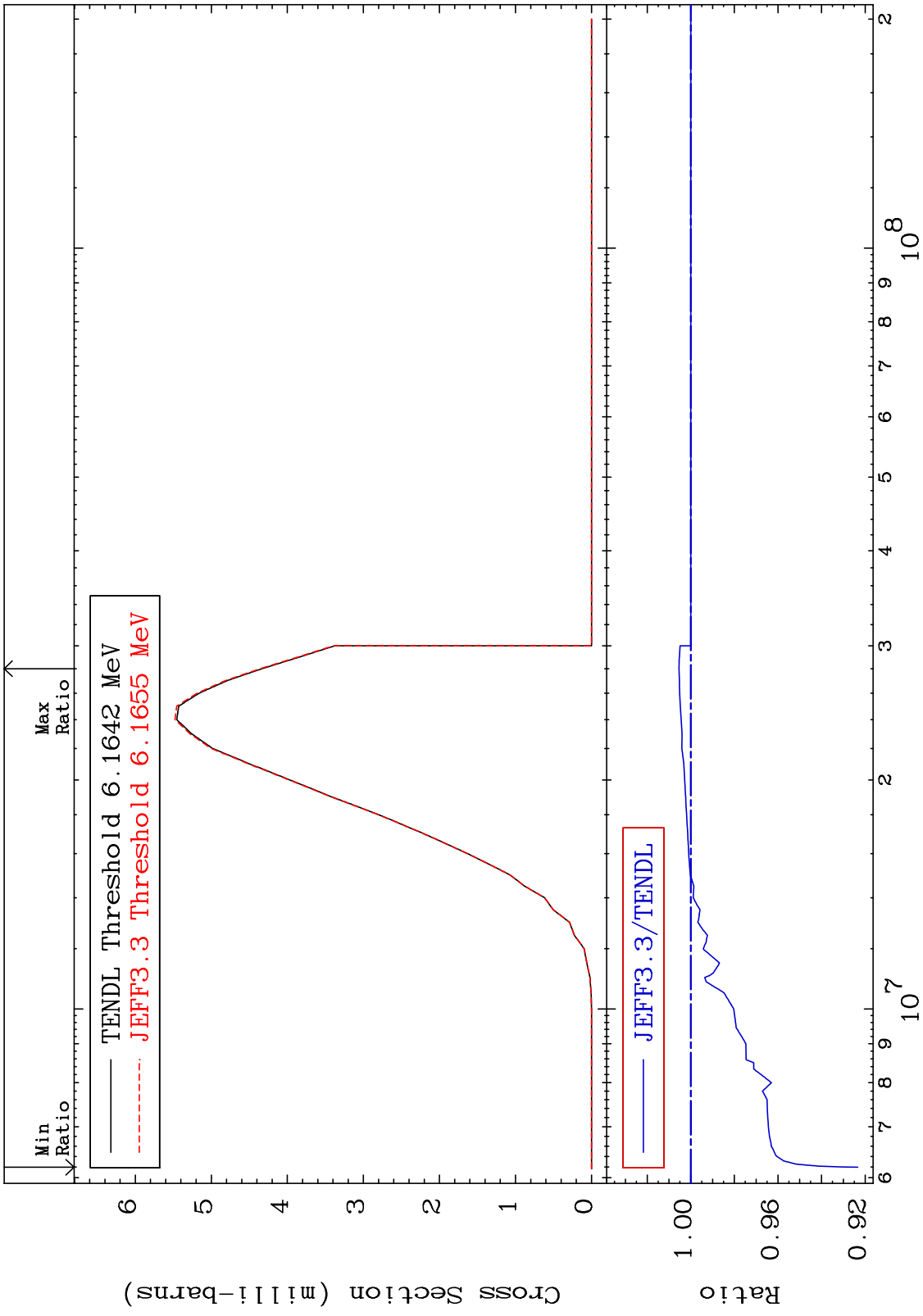
36-Kr-78

MAT 3625  $(n, 2\alpha)$   $^{36}\text{Kr-78}$   
 Cross Section -80.21 To 9999. %

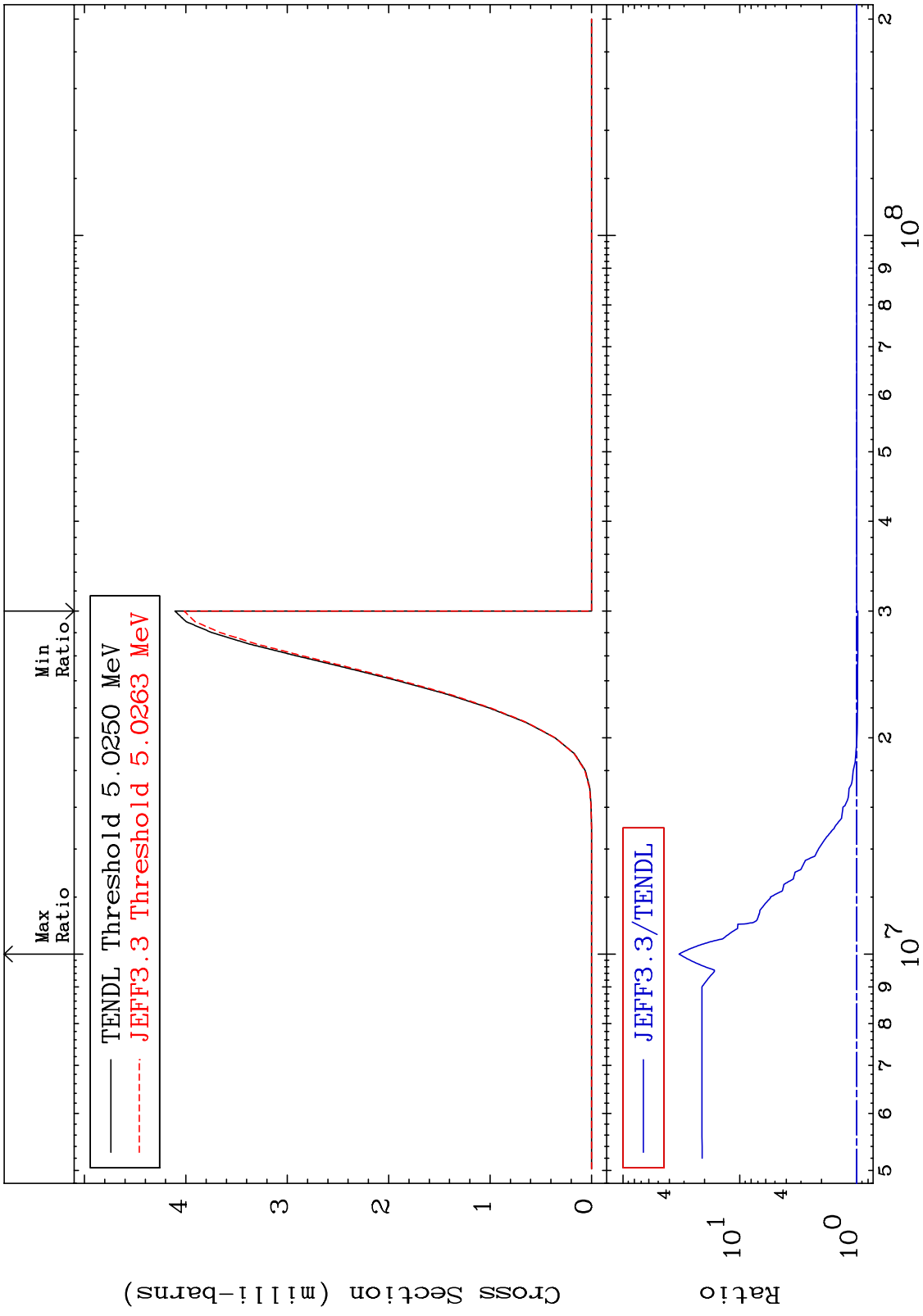




MAT 3625  $(n,2p)$  Cross Section  $^{36}\text{Kr-78}$   
 $-7.666$  To  $0.540$  %

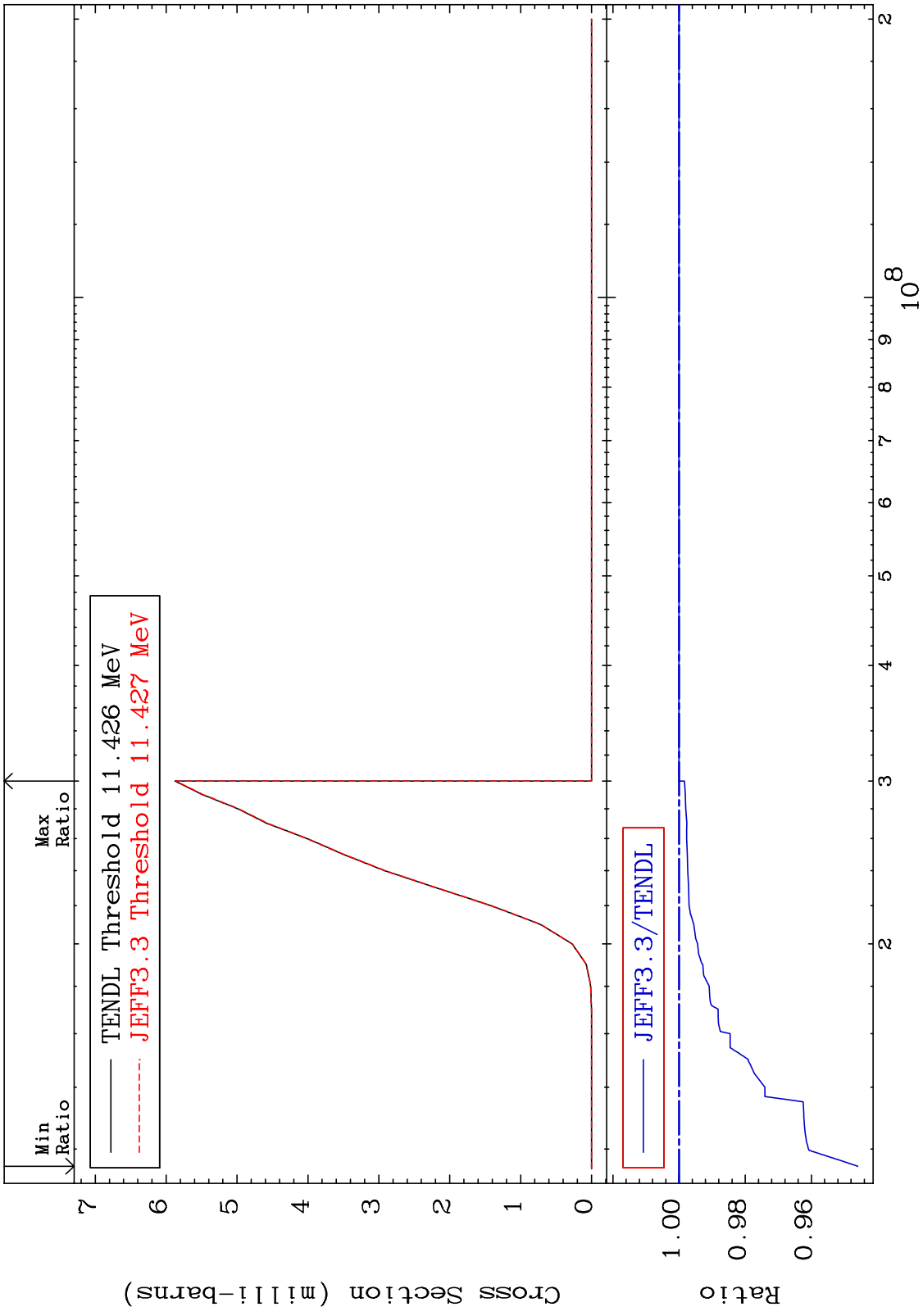


MAT 3625  $(n, p) \alpha$  Cross Section  $^{36}\text{Kr-78}$   
 -2.221 To 3212. %

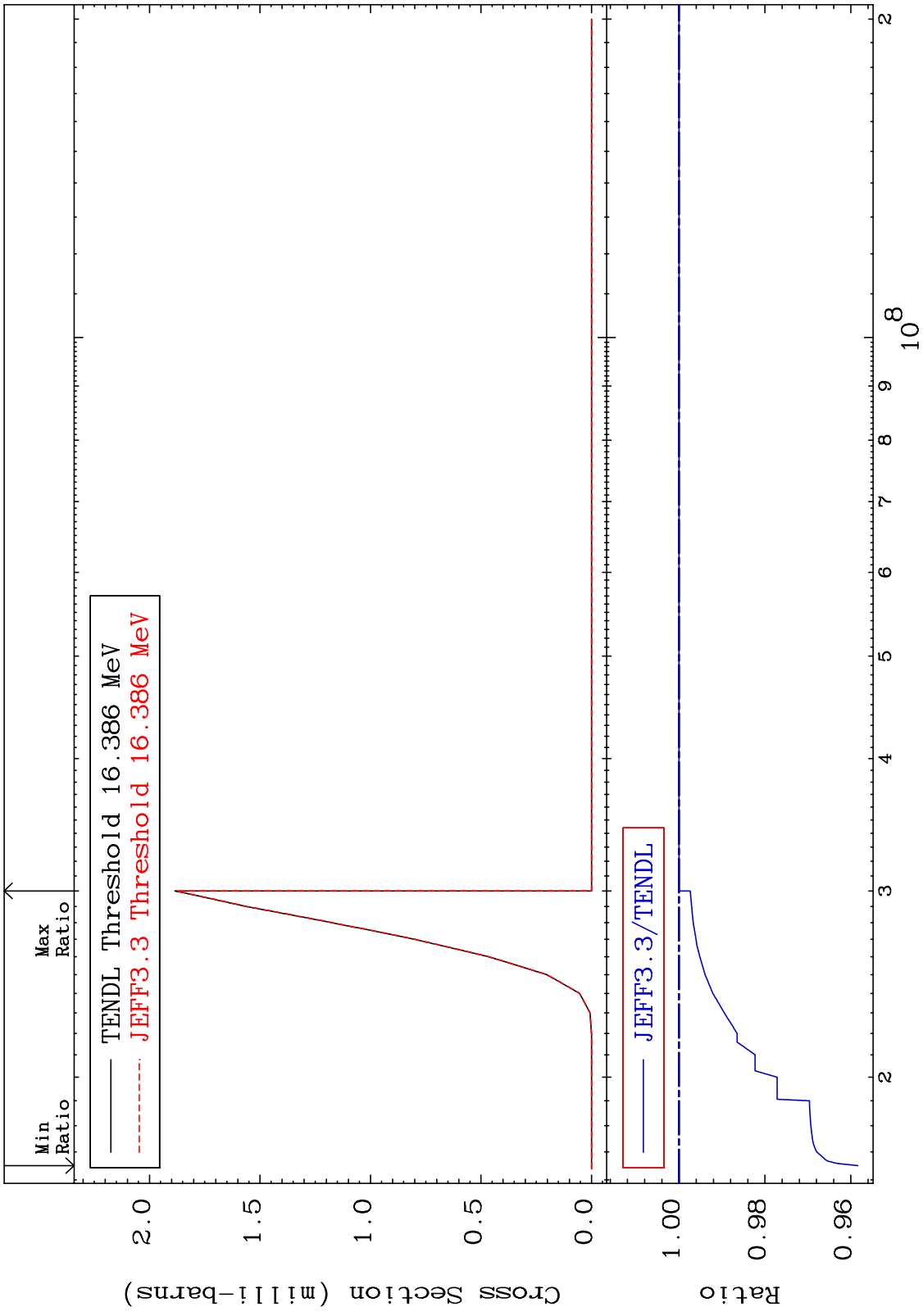


$^{36}\text{Kr-78}$

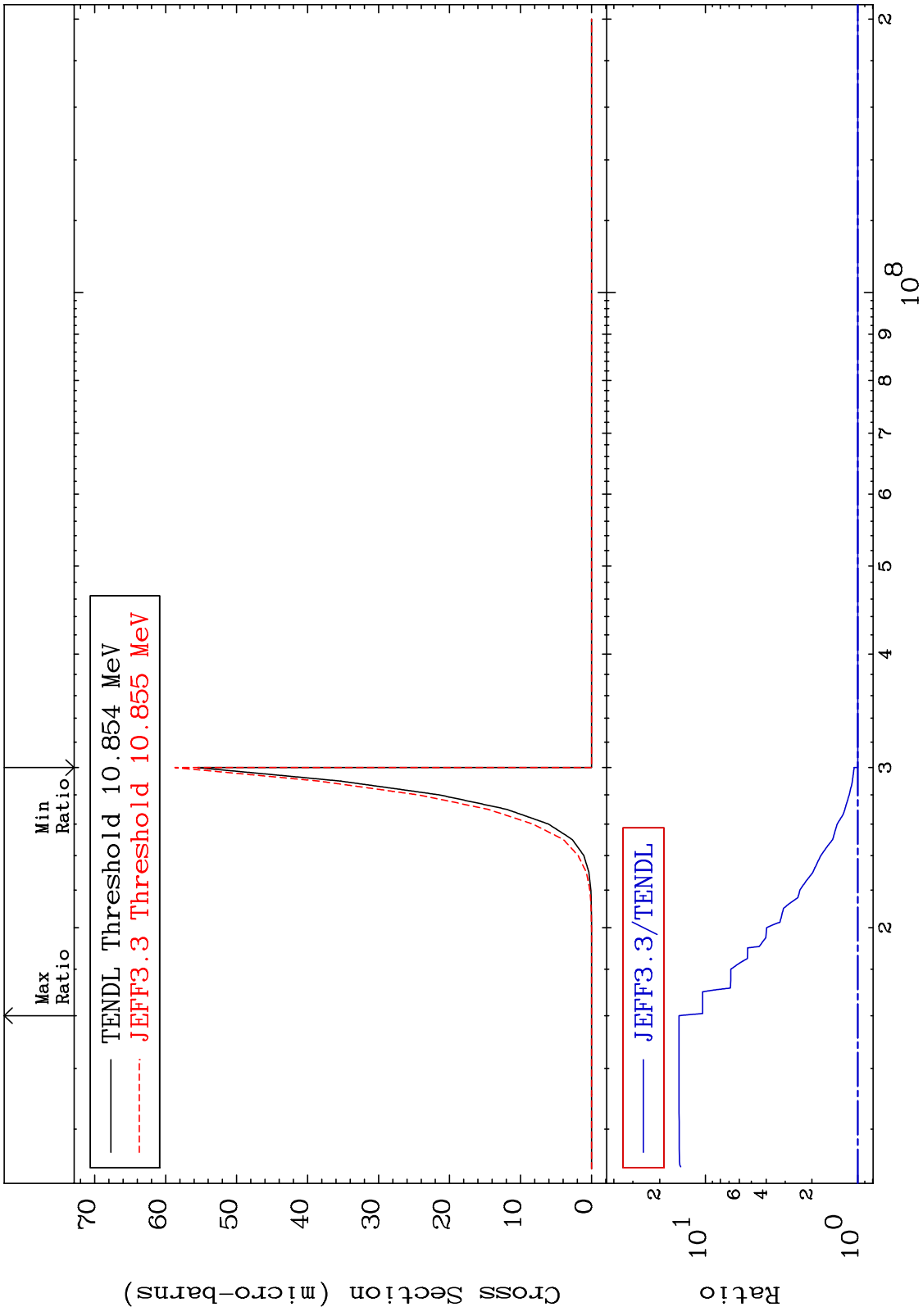
MAT 3625 (n,p) d 36-Kr-78  
 Cross Section -5.403 To 0.000 %



MAT 3625 (n,p) t 36-Kr-78  
 Cross Section -4.162 To 0.000 %



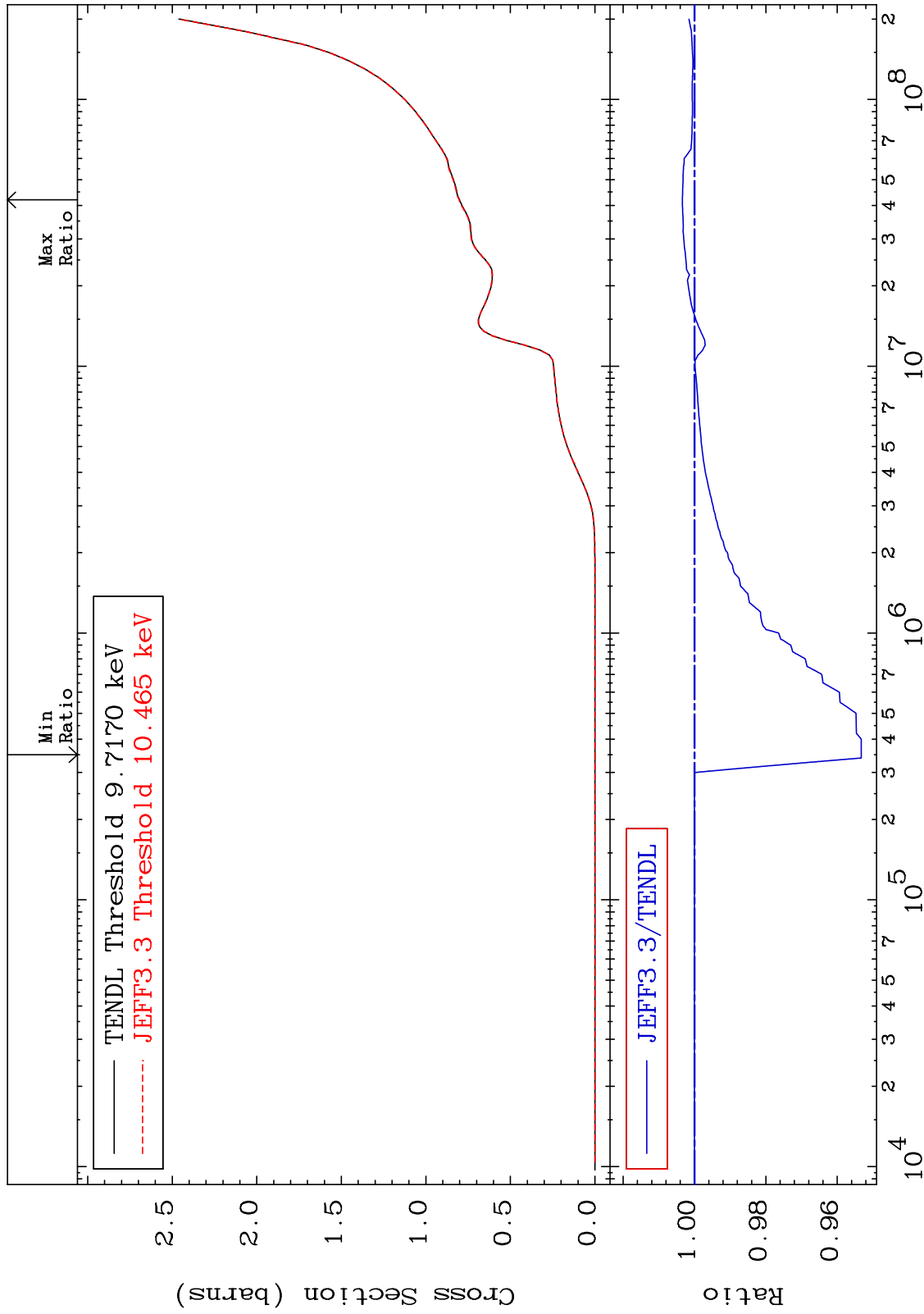
MAT 3625  $(n,d) \alpha$  Cross Section  $^{36}\text{Kr-78}$  To 1392. %



MAT 3625

Hydrogen Production  
Cross Section

<sup>36</sup>Kr-78  
-4.674 To 0.337 %



61

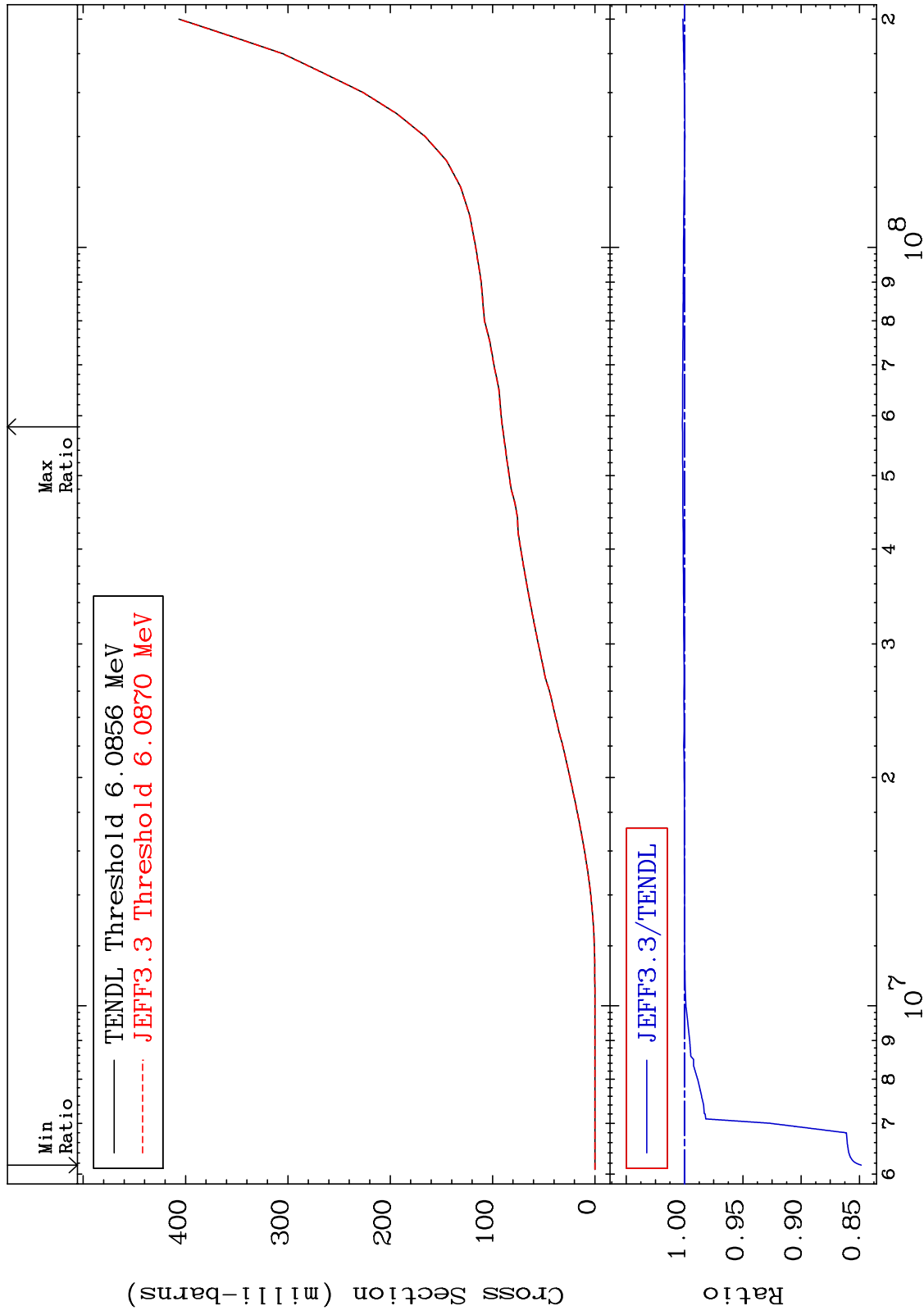
Incident Energy (eV)

<sup>36</sup>Kr-78

MAT 3625

Deuterium Production  
Cross Section

<sup>36</sup>Kr-78  
-15.16 To 0.180 %



62

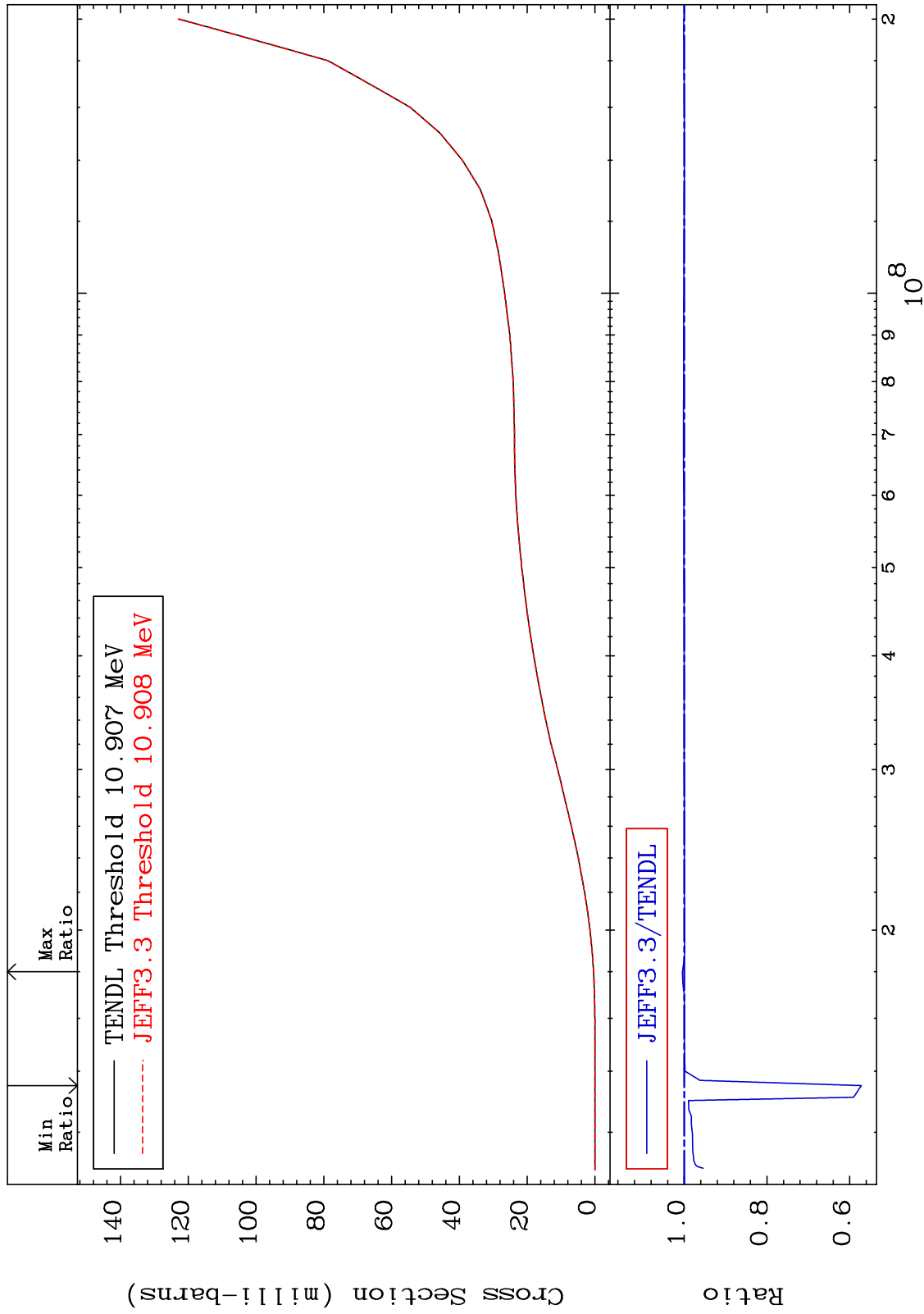
Incident Energy (eV)

<sup>36</sup>Kr-78

MAT 3625

Tritium Production  
Cross Section

<sup>36</sup>Kr-78  
-42.79 To 0.423 %

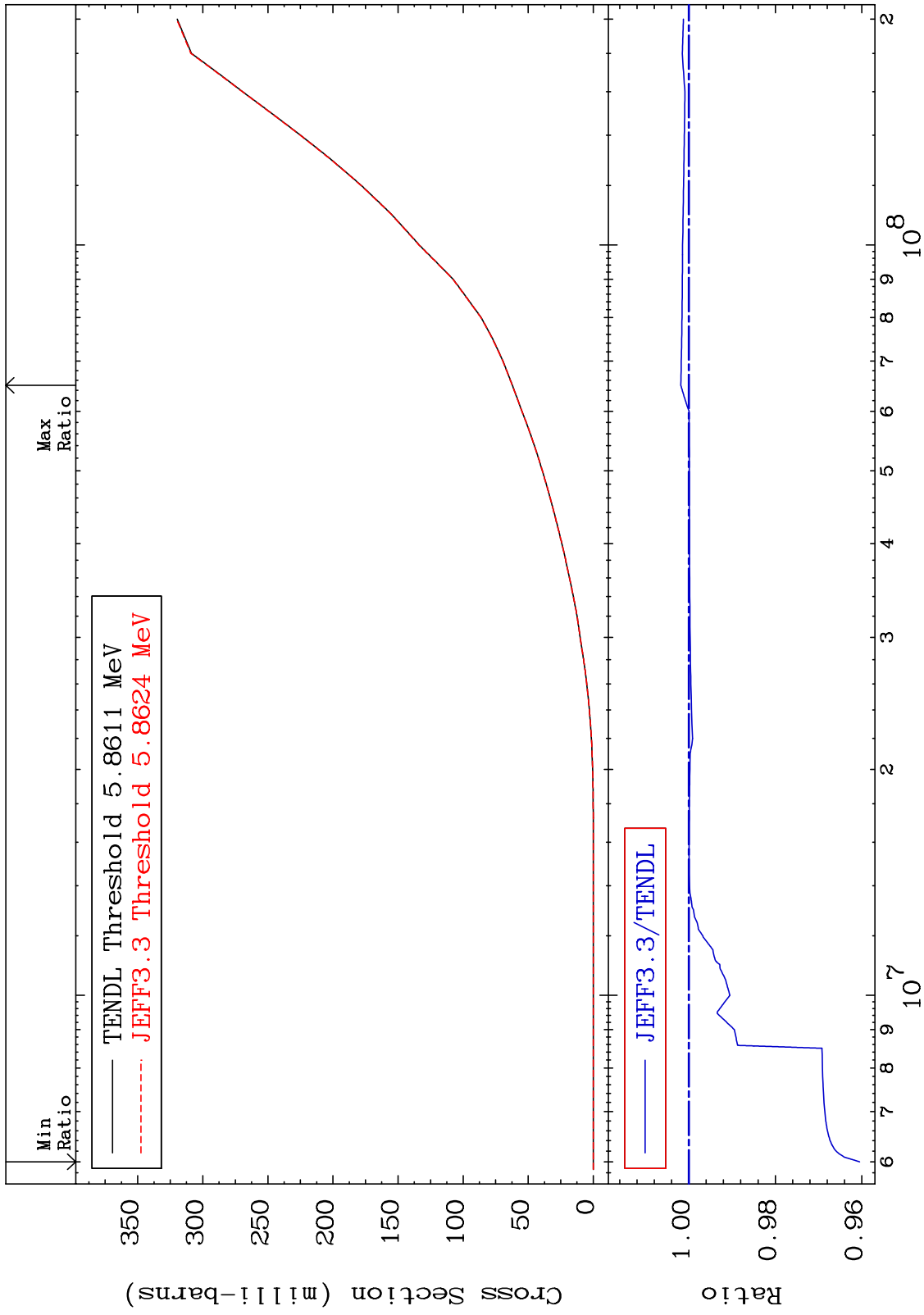




MAT 3625

He-3 Production  
Cross Section

36-Kr-78  
-3.952 To 0.188 %



64

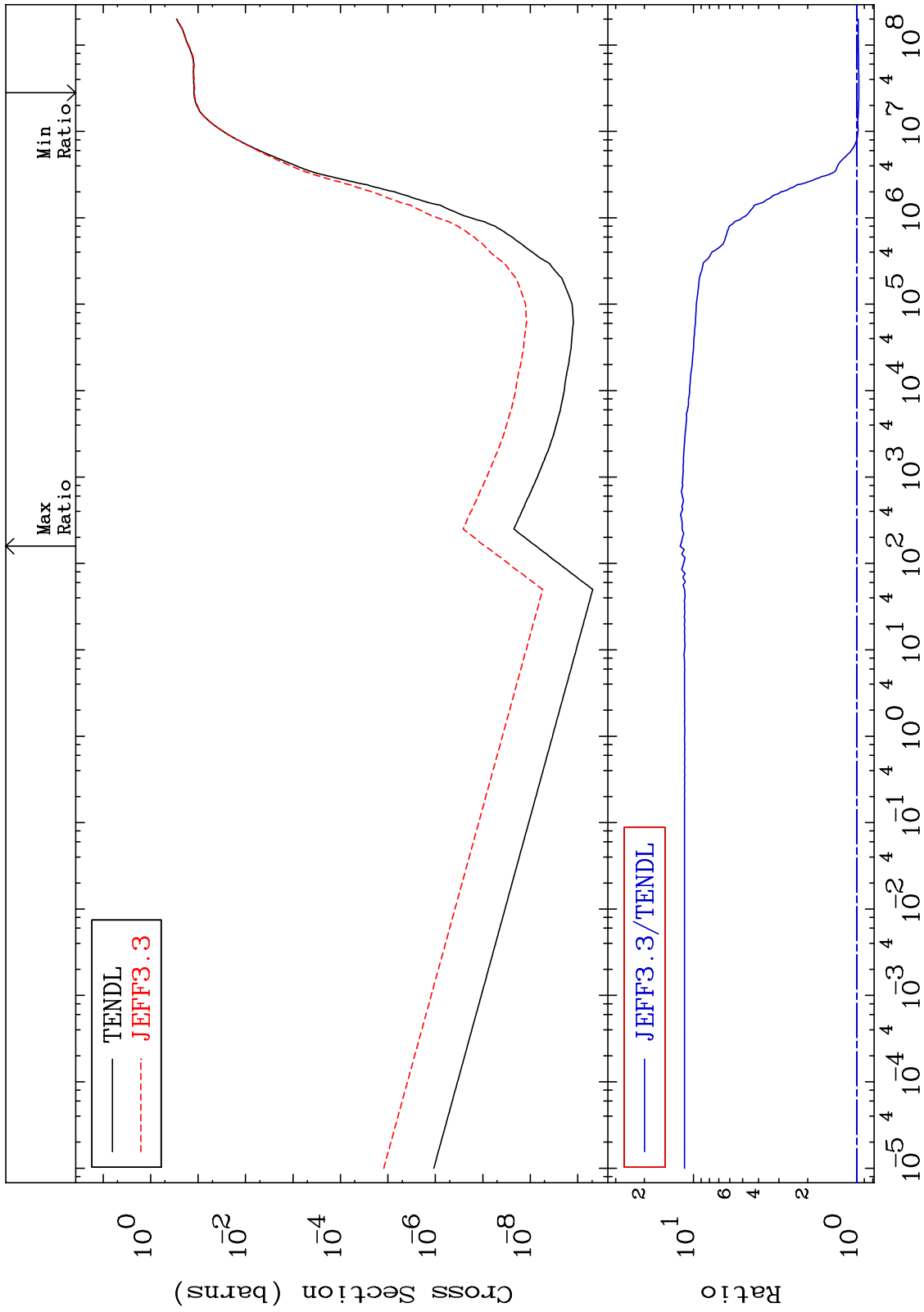
Incident Energy (eV)

36-Kr-78

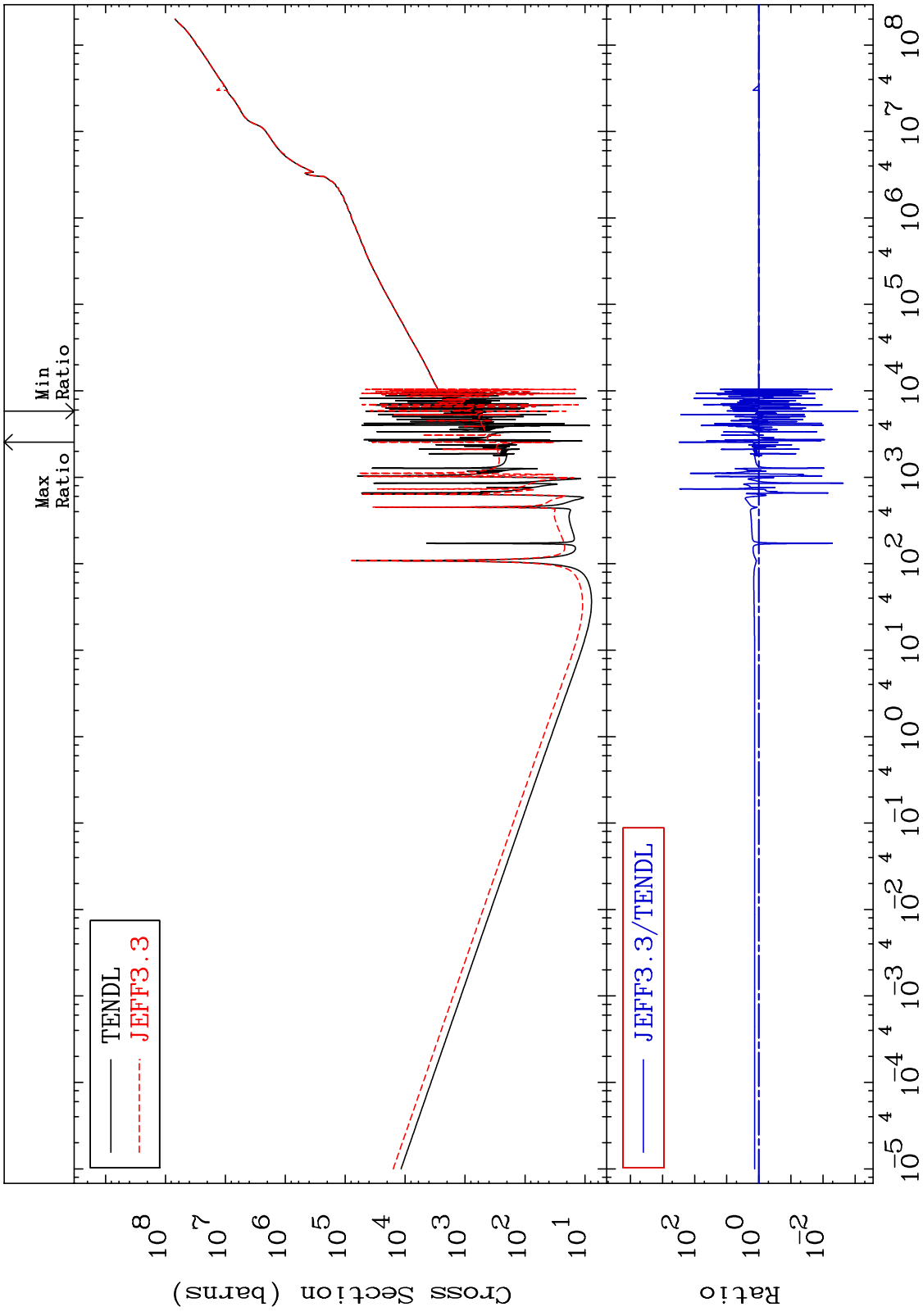
MAT 3625

He-4 Production  
Cross Section

36-Kr-78  
-2.775 To 1107. %



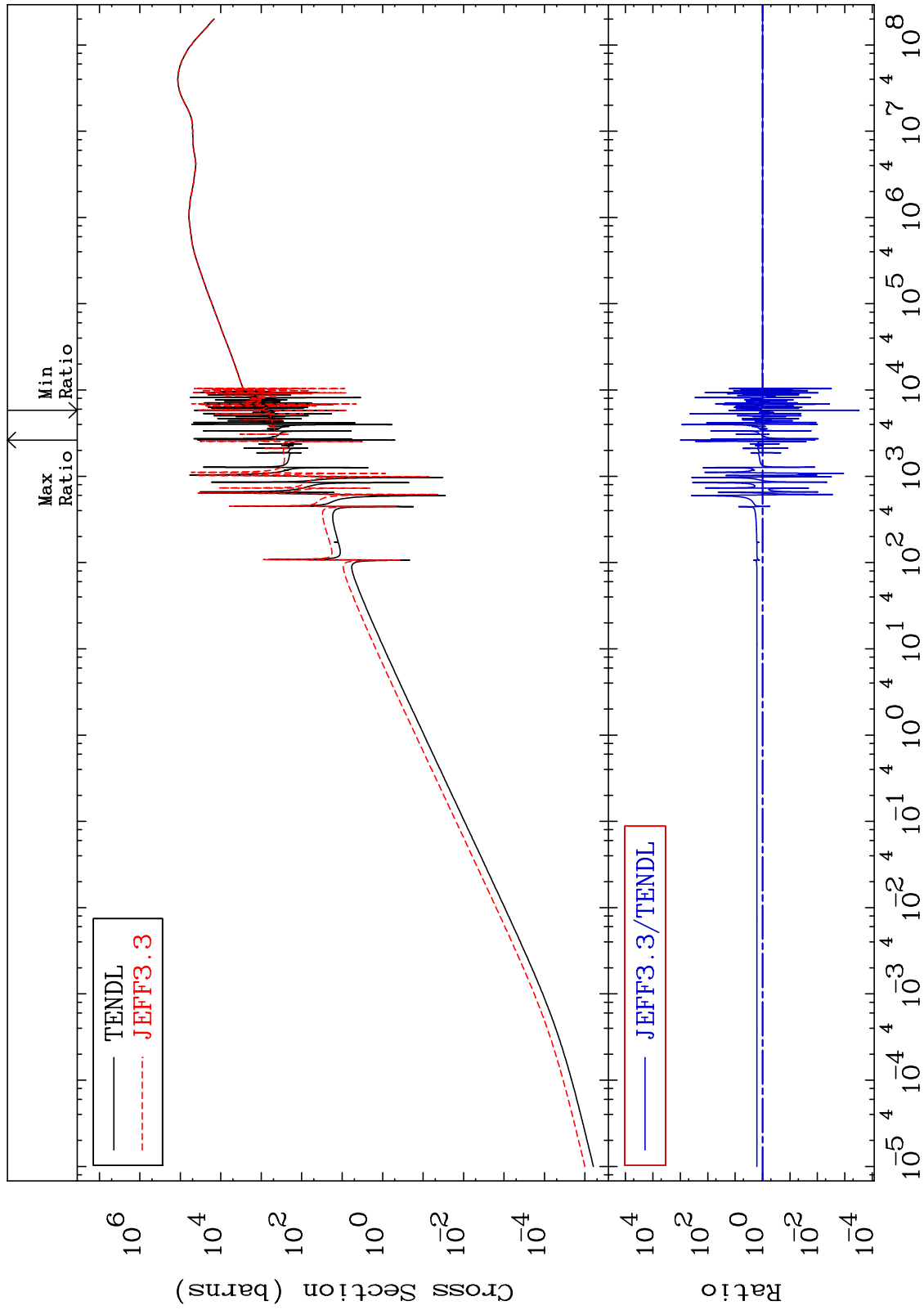
MAT 3625      Kerma total (eV-barns)      36-Kr-78  
 Cross Section      -99.92 To 9999. %



MAT 3625

Kerma elastic  
Cross Section

36-Kr-78  
-99.97 To 9999. %



67

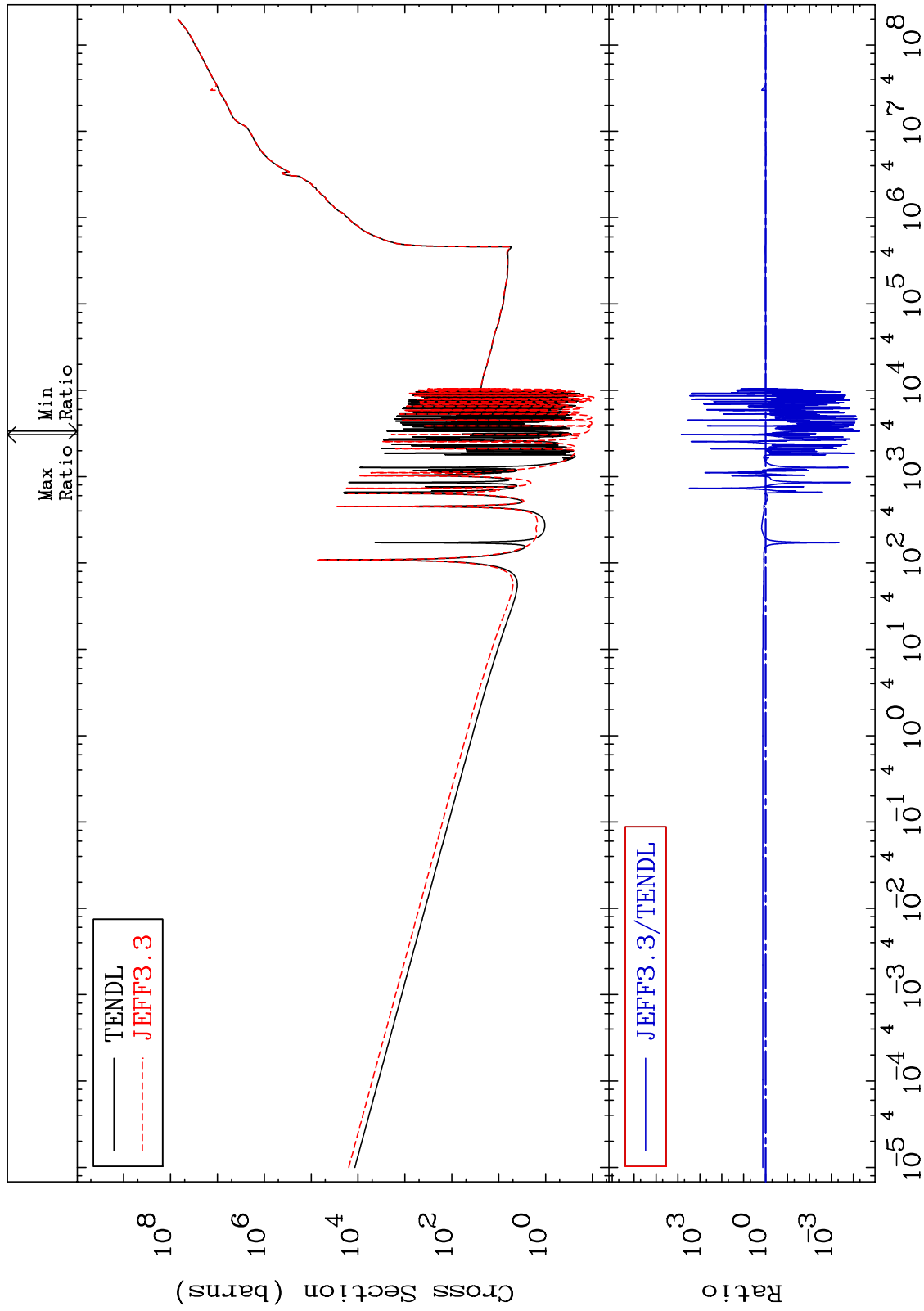
Incident Energy (eV)

36-Kr-78

MAT 3625

Kerma non-elastic (all but mt2)  
Cross Section

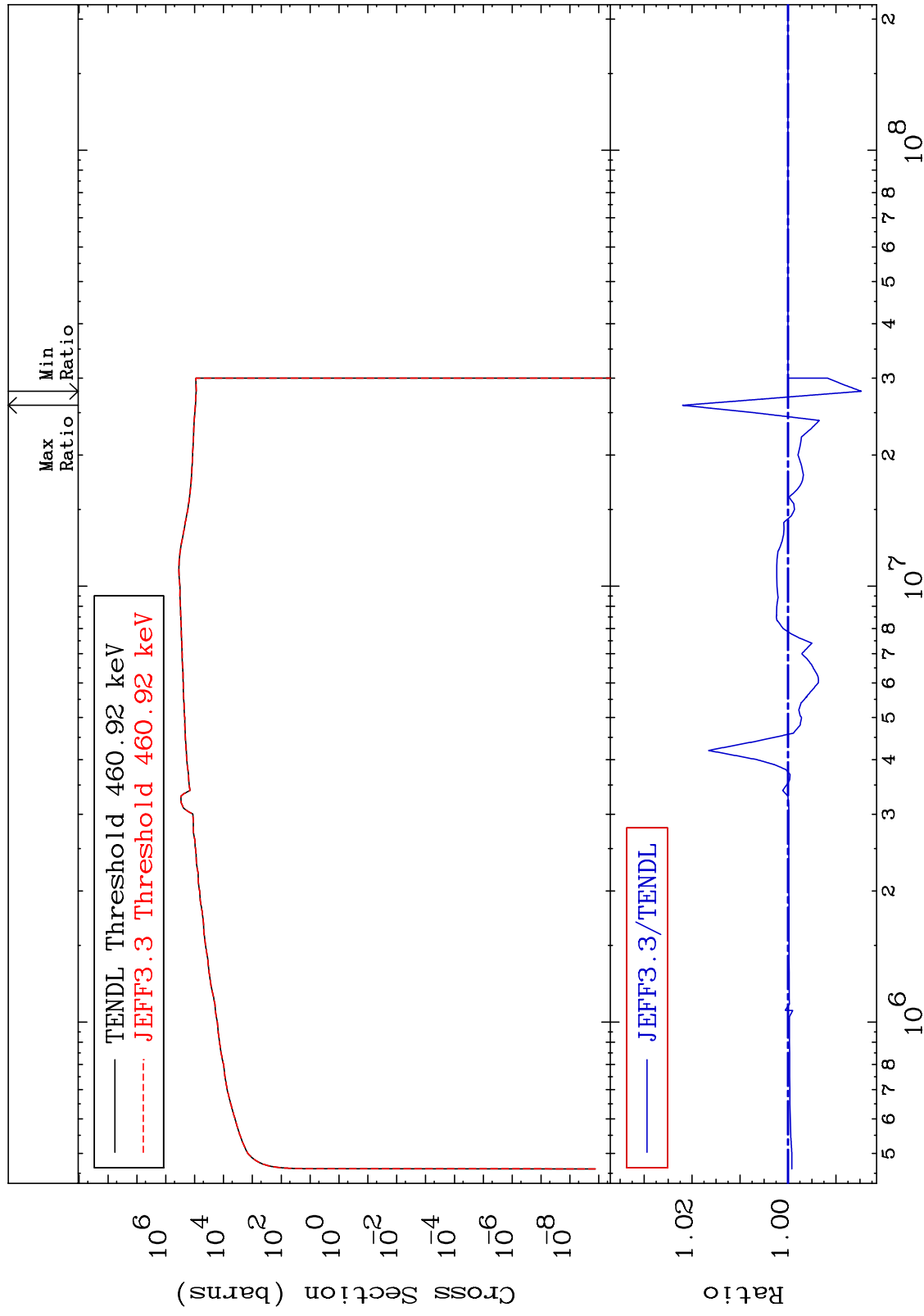
36-Kr-78  
-99.99 To 9999. %



MAT 3625

Kerma inelastic (mt51-91)  
Cross Section

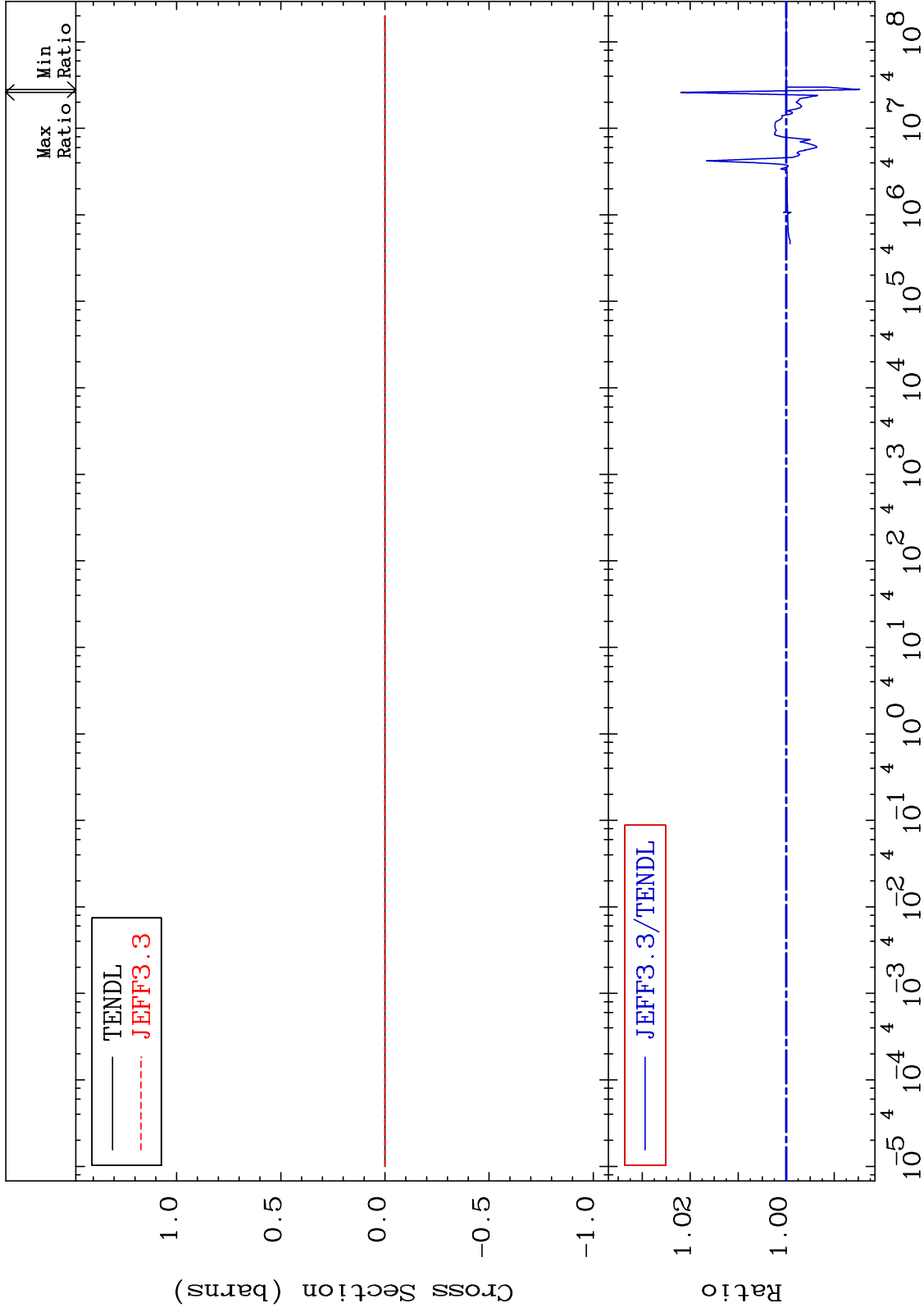
36-Kr-78  
-1.529 To 2.196 %



MAT 3625

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

36-Kr-78  
-1.529 To 2.196 %



70

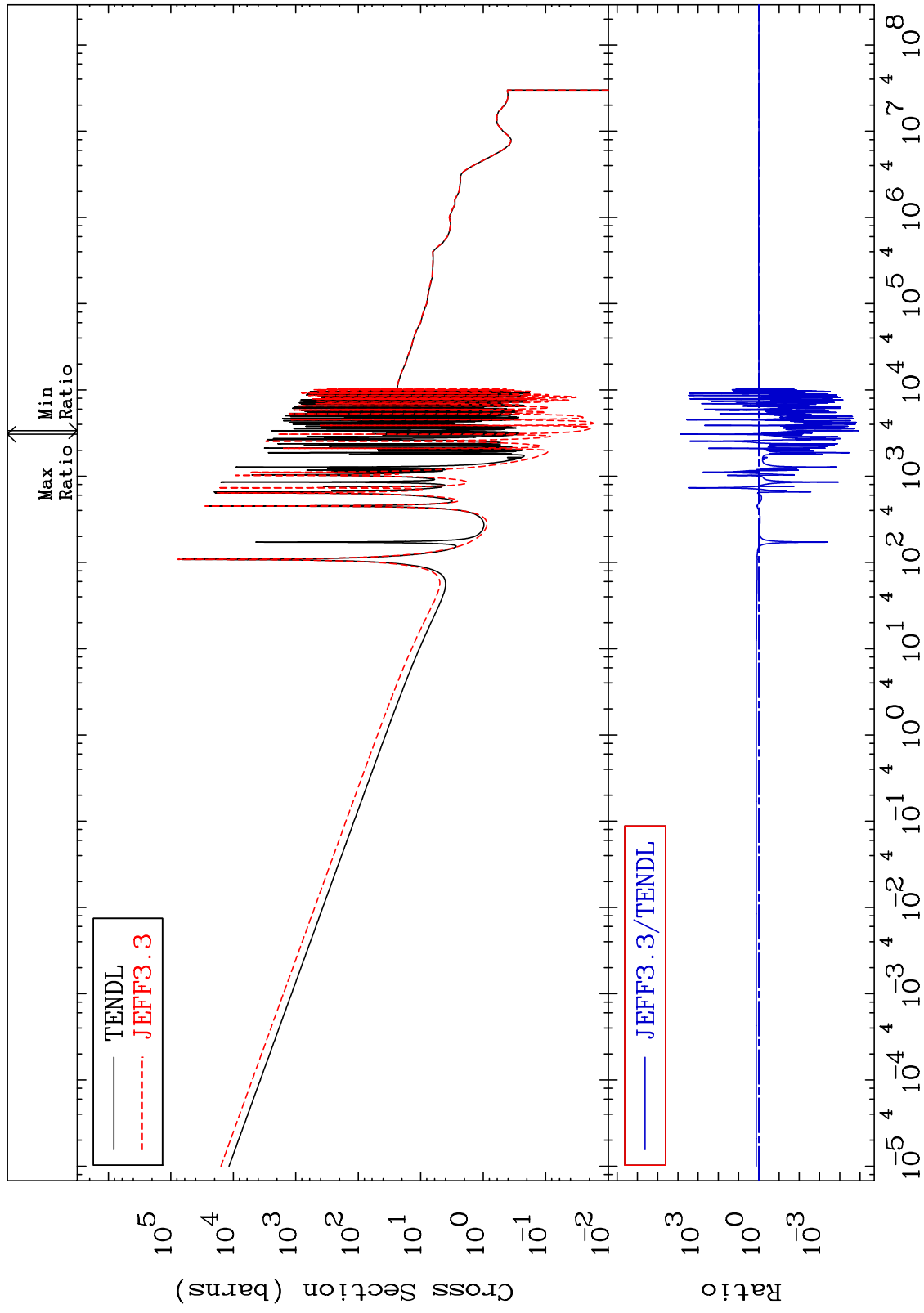
Incident Energy (eV)

36-Kr-78

MAT 3625

Kerma capture (mt102)  
Cross Section

36-Kr-78  
-100.0 To 9999. %

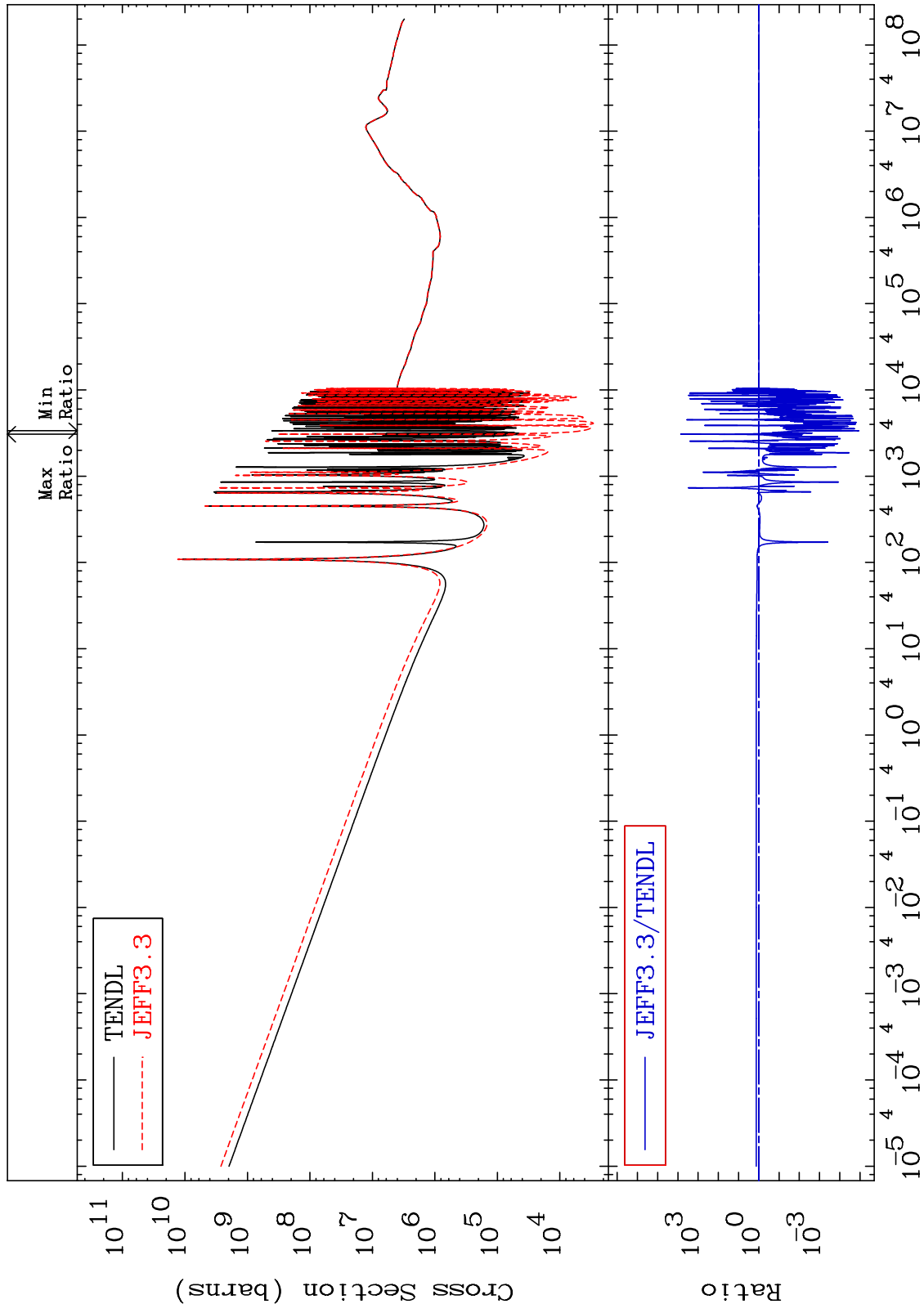




MAT 3625

Total photon (eV-barns)  
Cross Section

36-Kr-78  
-100.0 To 9999. %



72

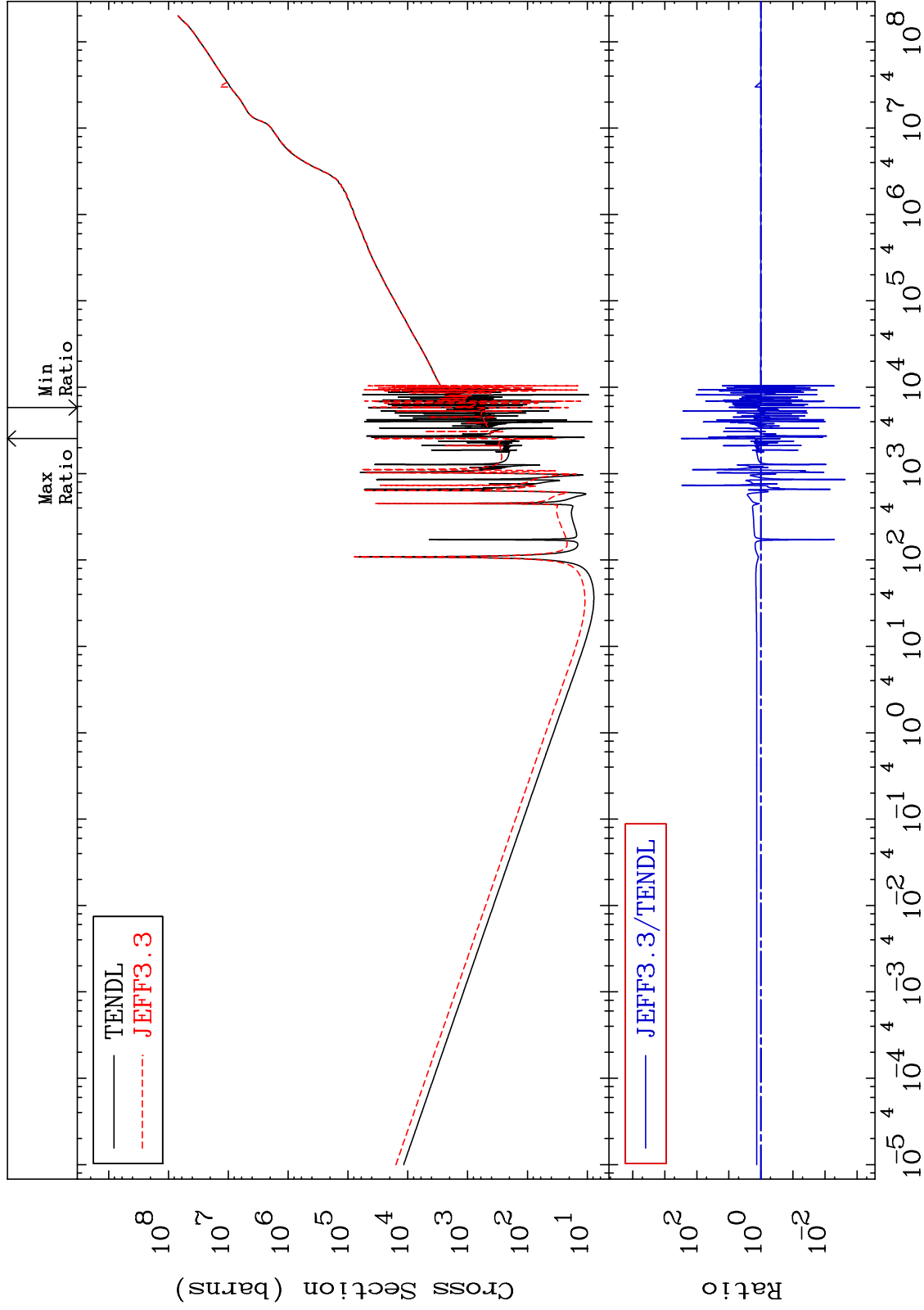
Incident Energy (eV)

36-Kr-78

MAT 3625

Total kinematic kerma (high limit)  
Cross Section

36-Kr-78  
-99.92 To 9999. %



73

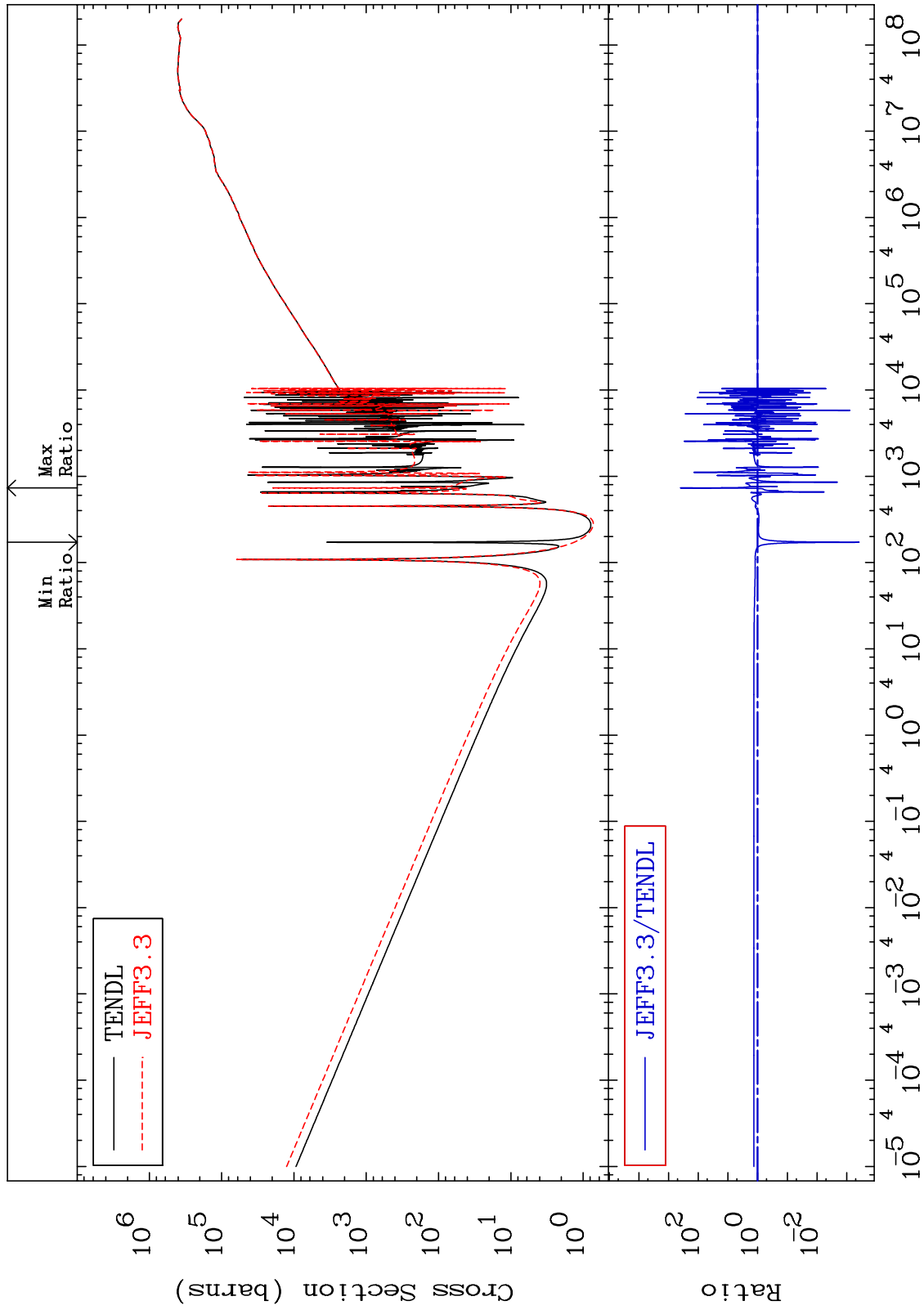
Incident Energy (eV)

36-Kr-78

MAT 3625

Dpa total (eV-barns)  
Cross Section

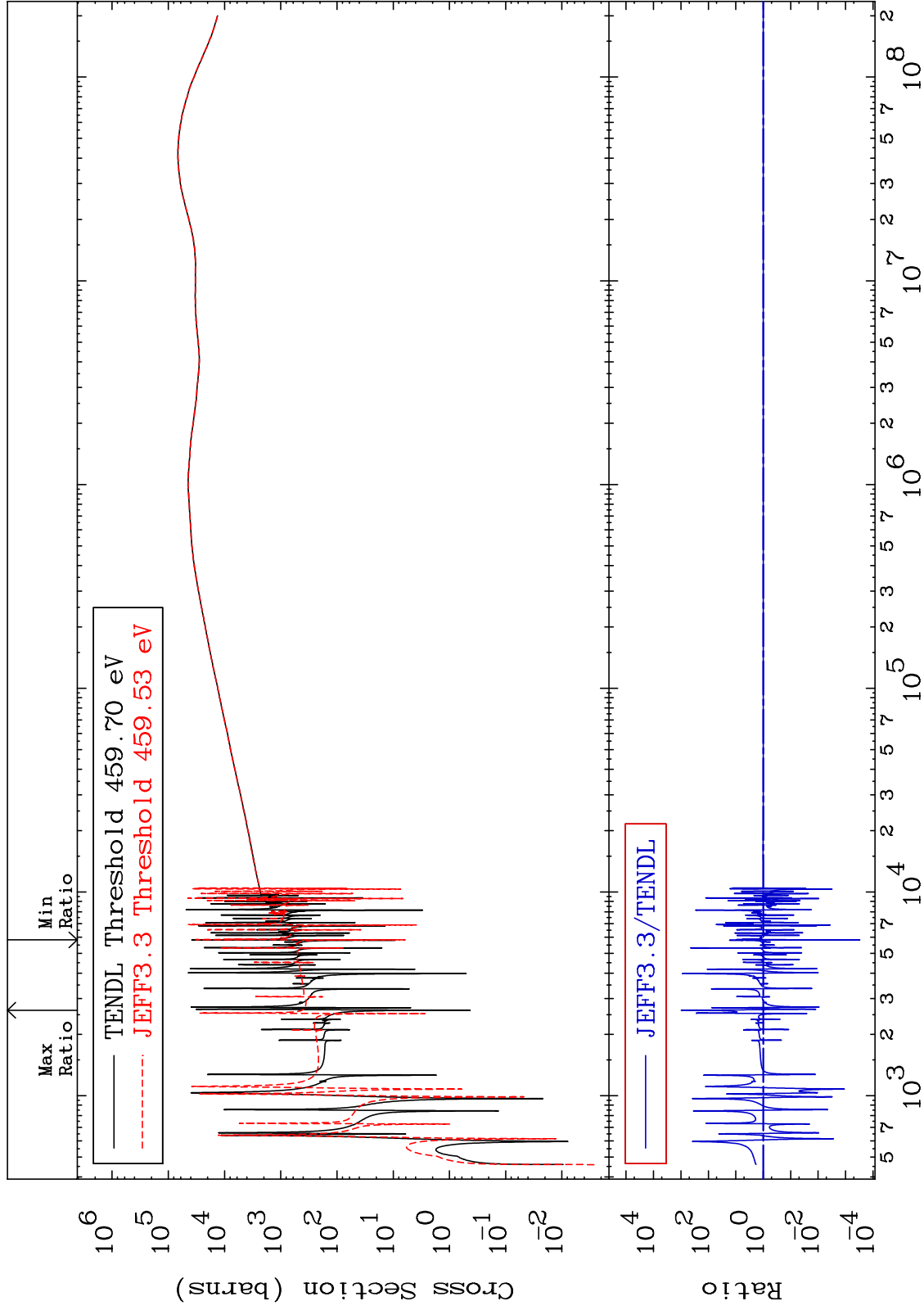
36-Kr-78  
-99.96 To 9999. %



MAT 3625

Dpa elastic (mt2)  
Cross Section

36-Kr-78  
-99.97 To 9999. %



75

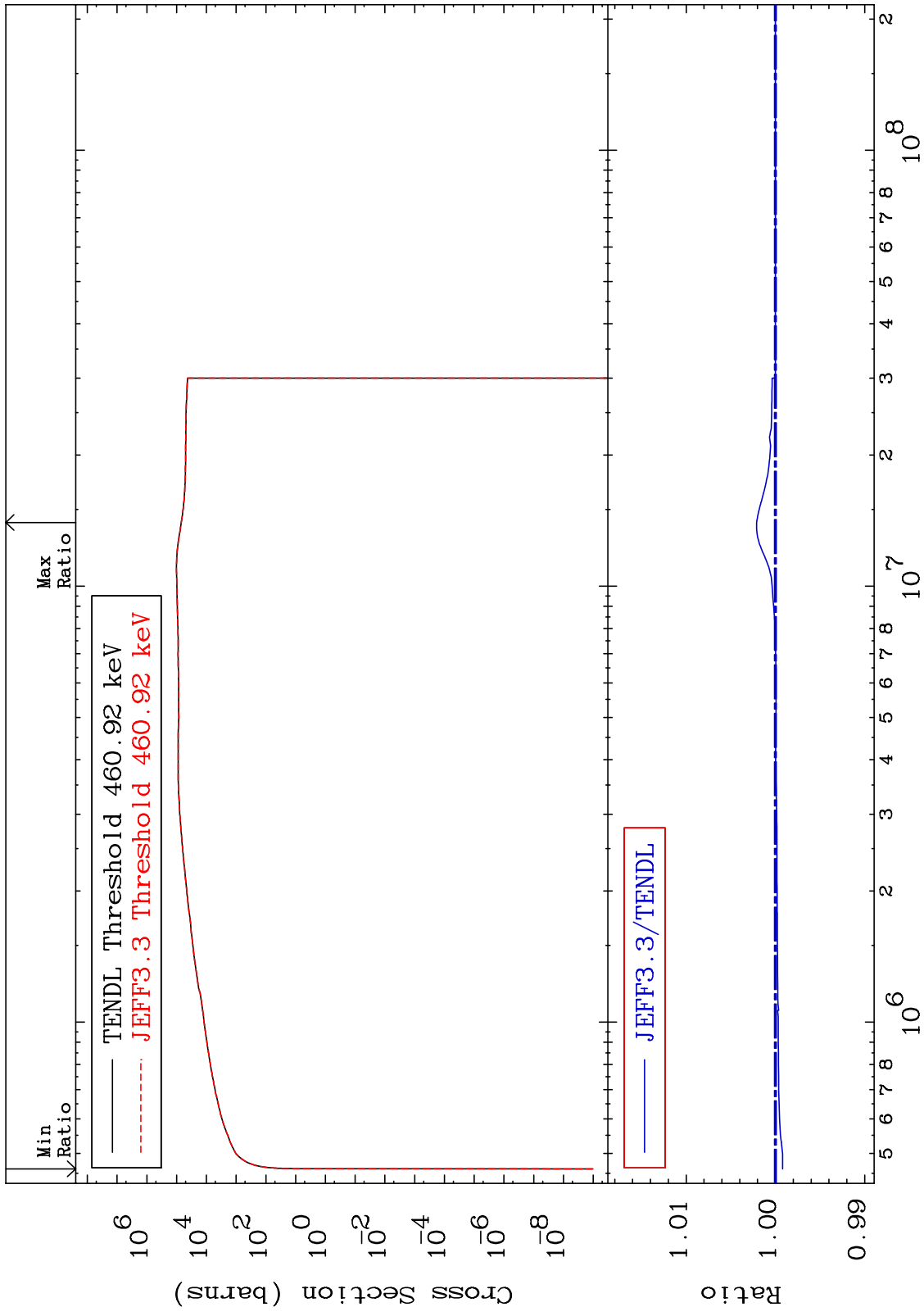
Incident Energy (eV)

36-Kr-78

MAT 3625

Dpa inelastic (mt51-91)  
Cross Section

36-Kr-78  
-0.079 To 0.211 %



76

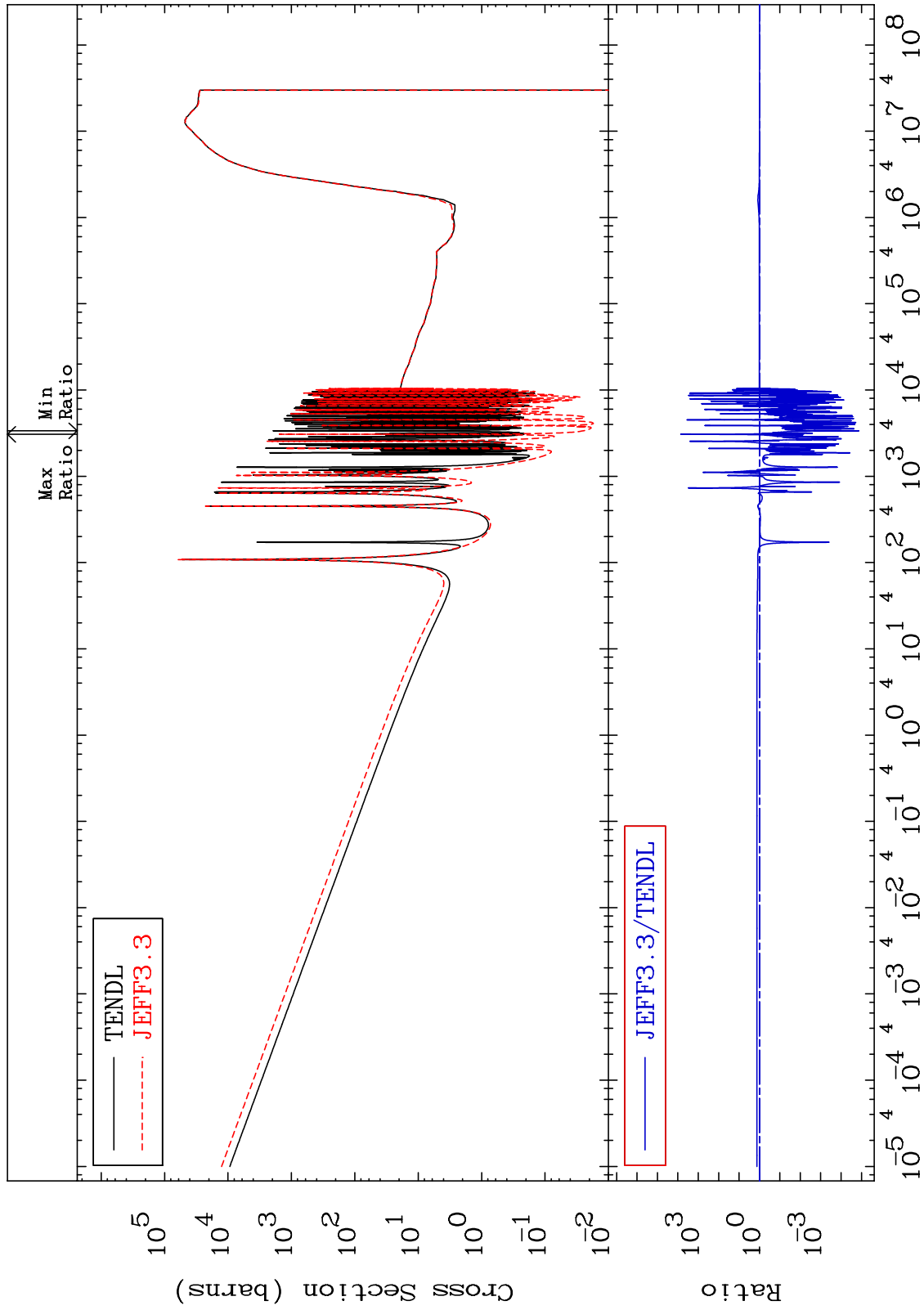
Incident Energy (eV)

36-Kr-78

MAT 3625

Dpa disappearance (mt102 -120)  
Cross Section

36-Kr-78  
-100.0 To 9999. %

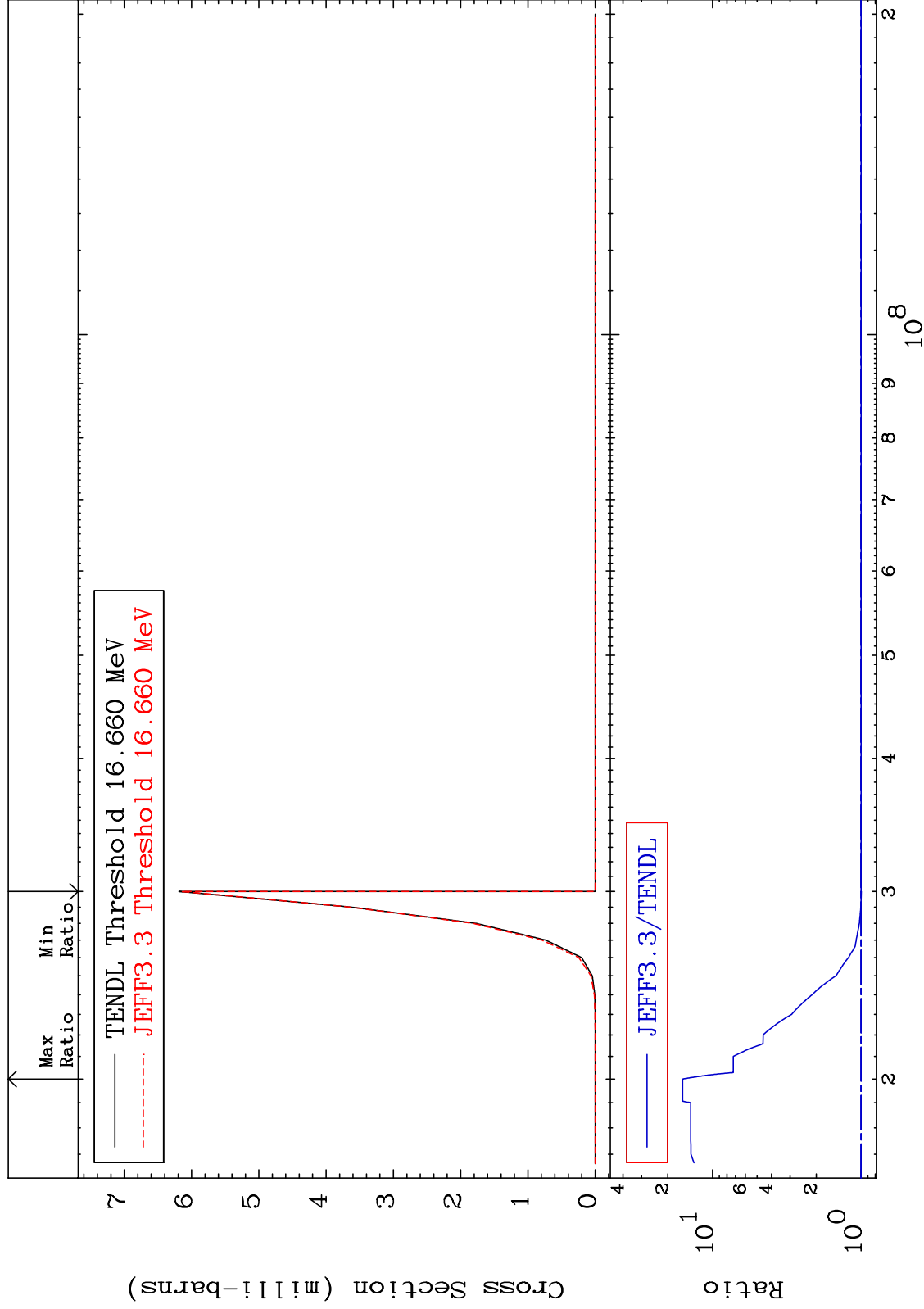


MAT 3625

(n,2n)  $\alpha$ :34-Se-73g

36-Kr-78

Radionuclide Production Cross Section -0.567 To 1487. %



78

Incident Energy (eV)

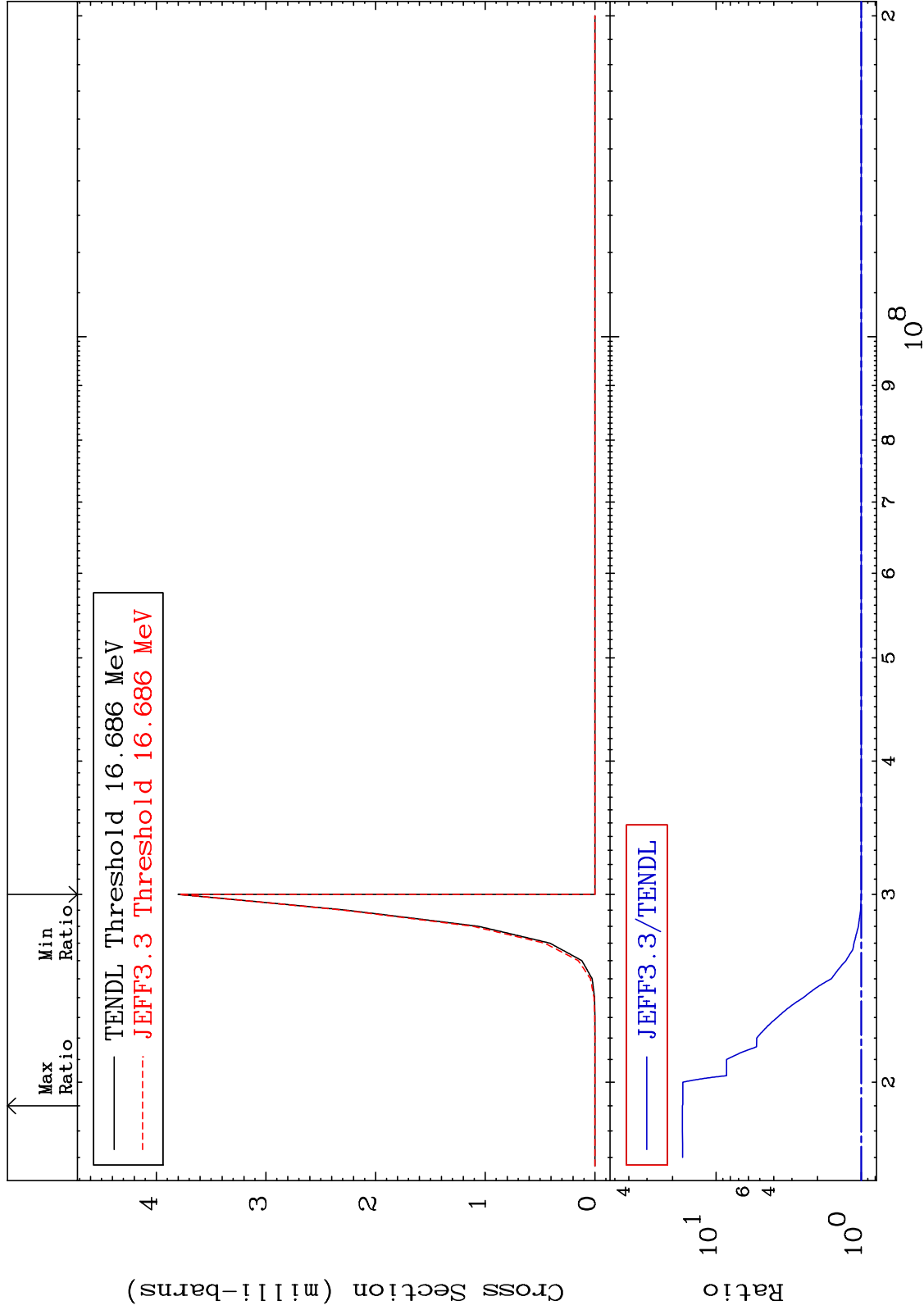
36-Kr-78

MAT 3625

(n,2n)  $\alpha$ :34-Se-73m1

36-Kr-78

Radionuclide Production Cross Section -0.150 To 1607. %



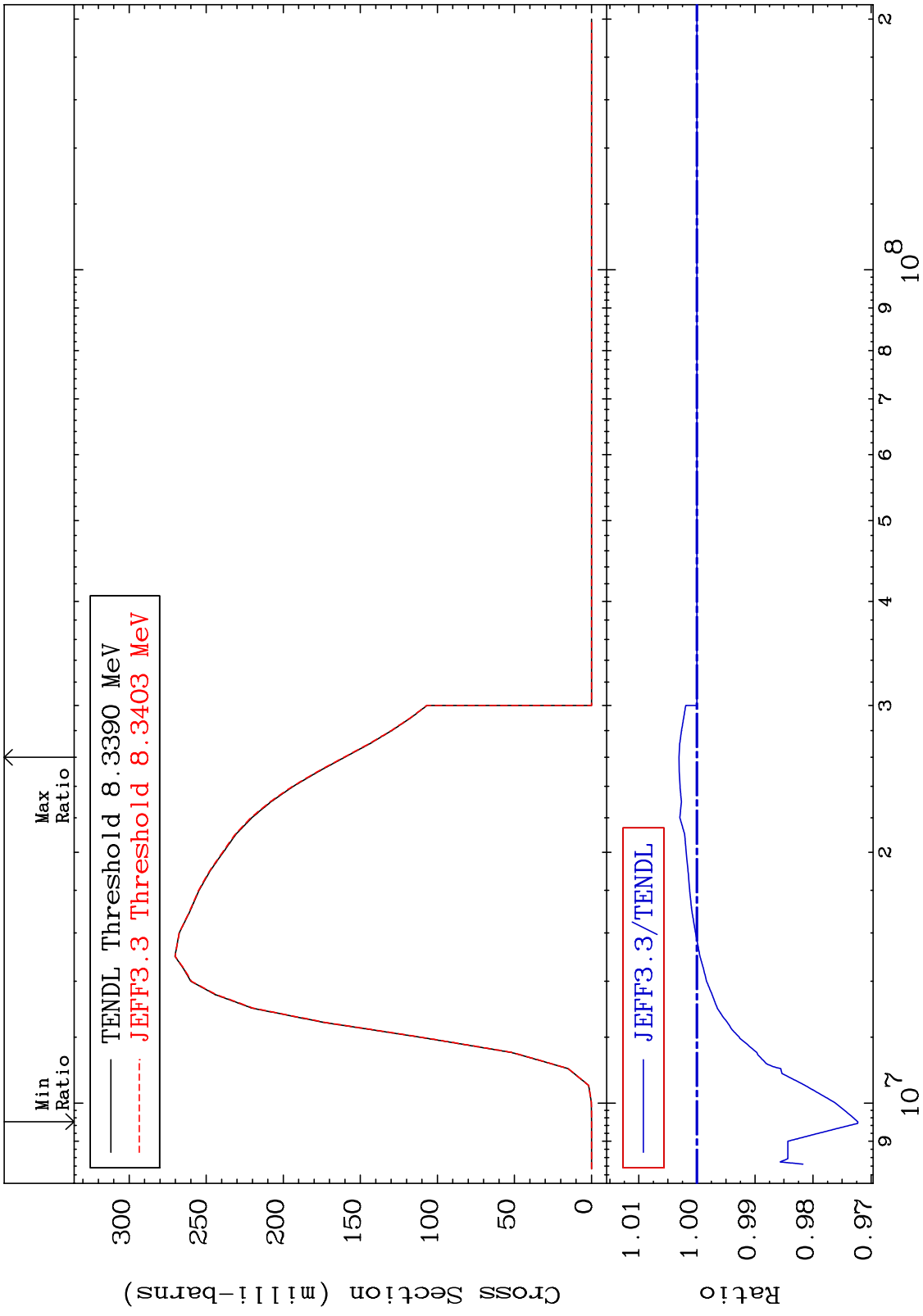
79

Incident Energy (eV)

36-Kr-78



MAT 3625 (n, n') p:35-Br-77g 36-Kr-78  
 Radionuclide Production Cross Section -2.771 To 0.308 %

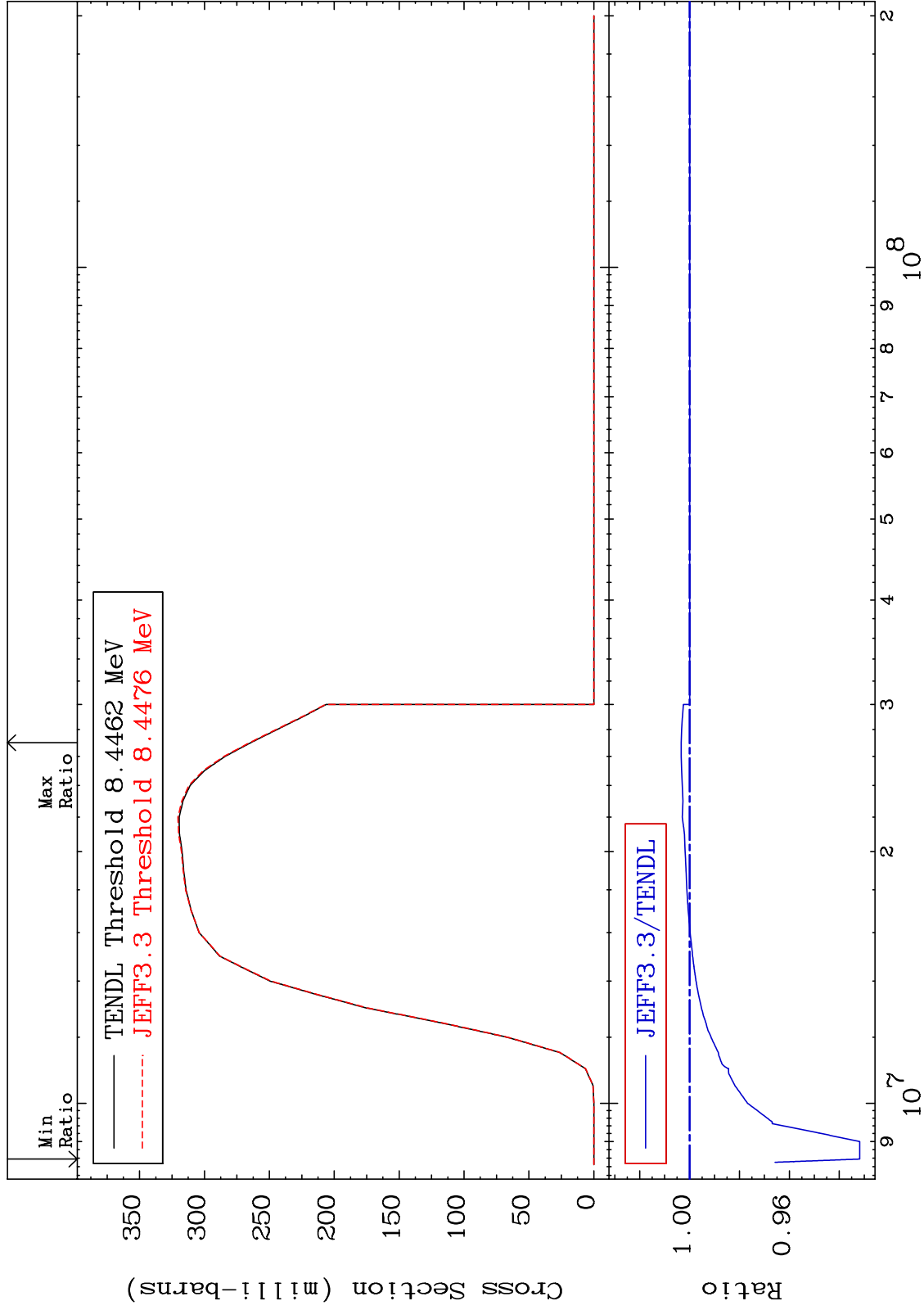


MAT 3625

(n, n') p:35-Br-77m1

36-Kr-78

Radionuclide Production Cross Section -6.822 To 0.335 %



81

Incident Energy (eV)

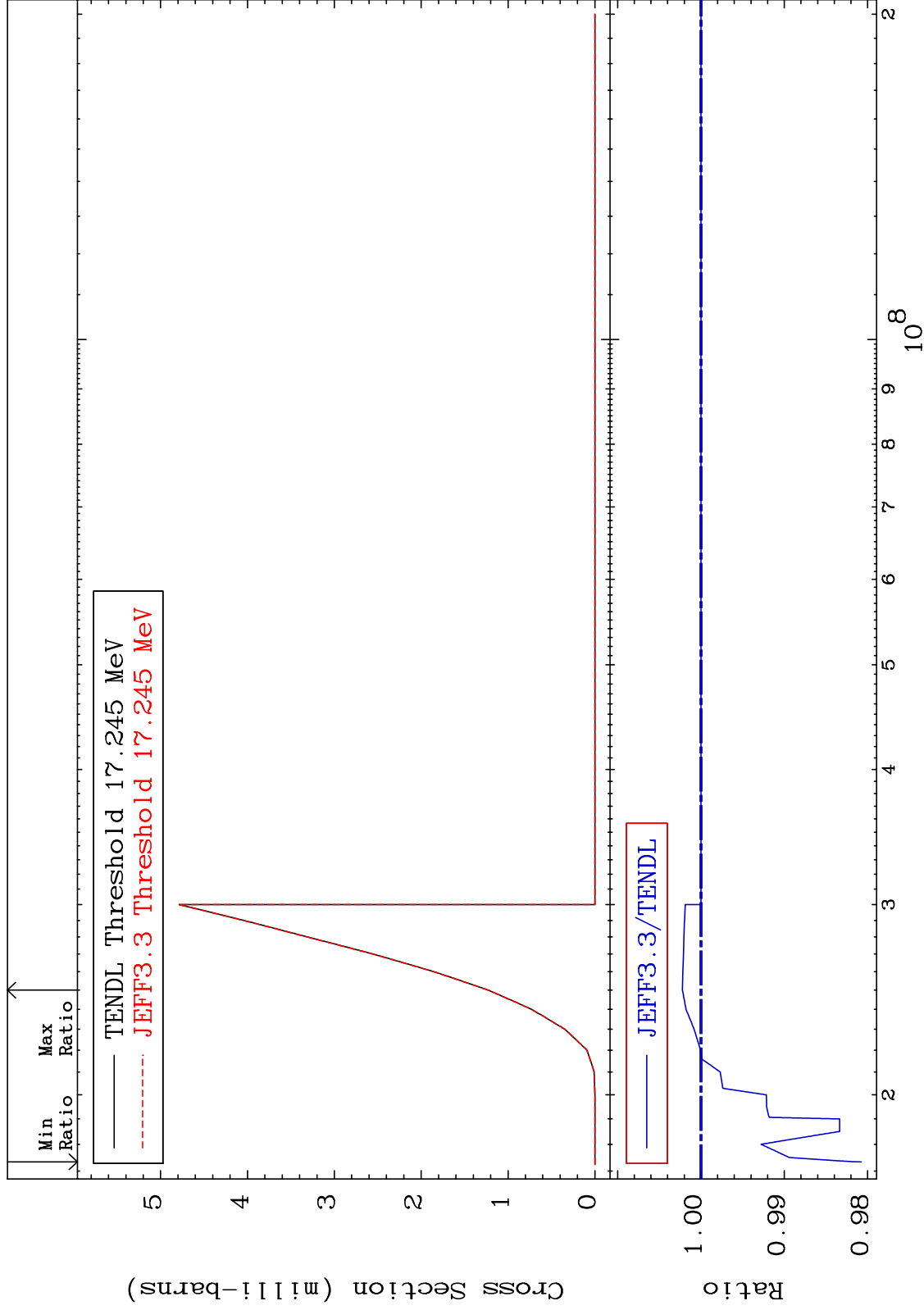
36-Kr-78

MAT 3625

(n, n') d: 35-Br-76g

36-Kr-78

Radionuclide Production Cross Section -1.923 To 0.222 %



82

Incident Energy (eV)

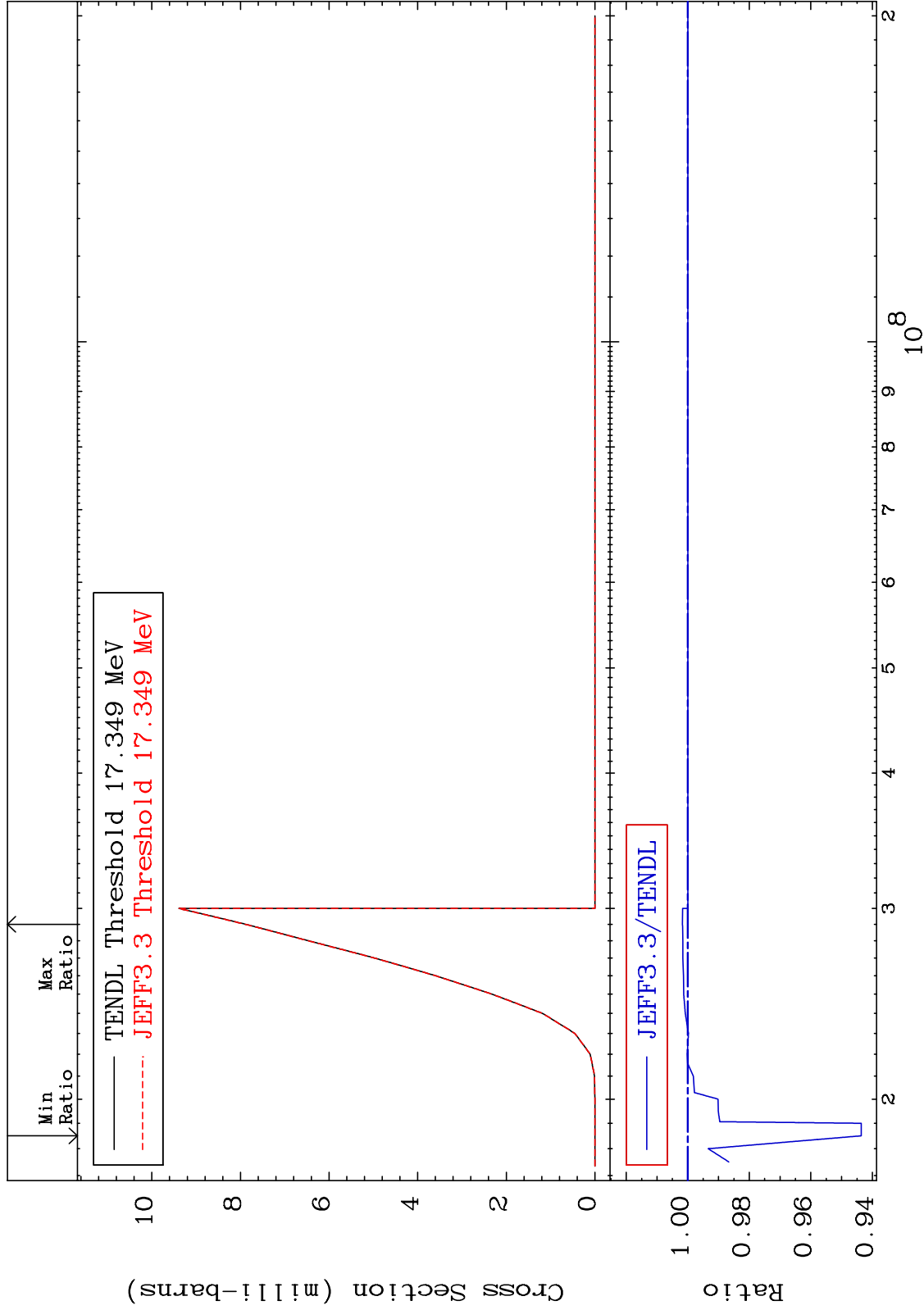
36-Kr-78

MAT 3625

(n, n') d:35-Br-76m2

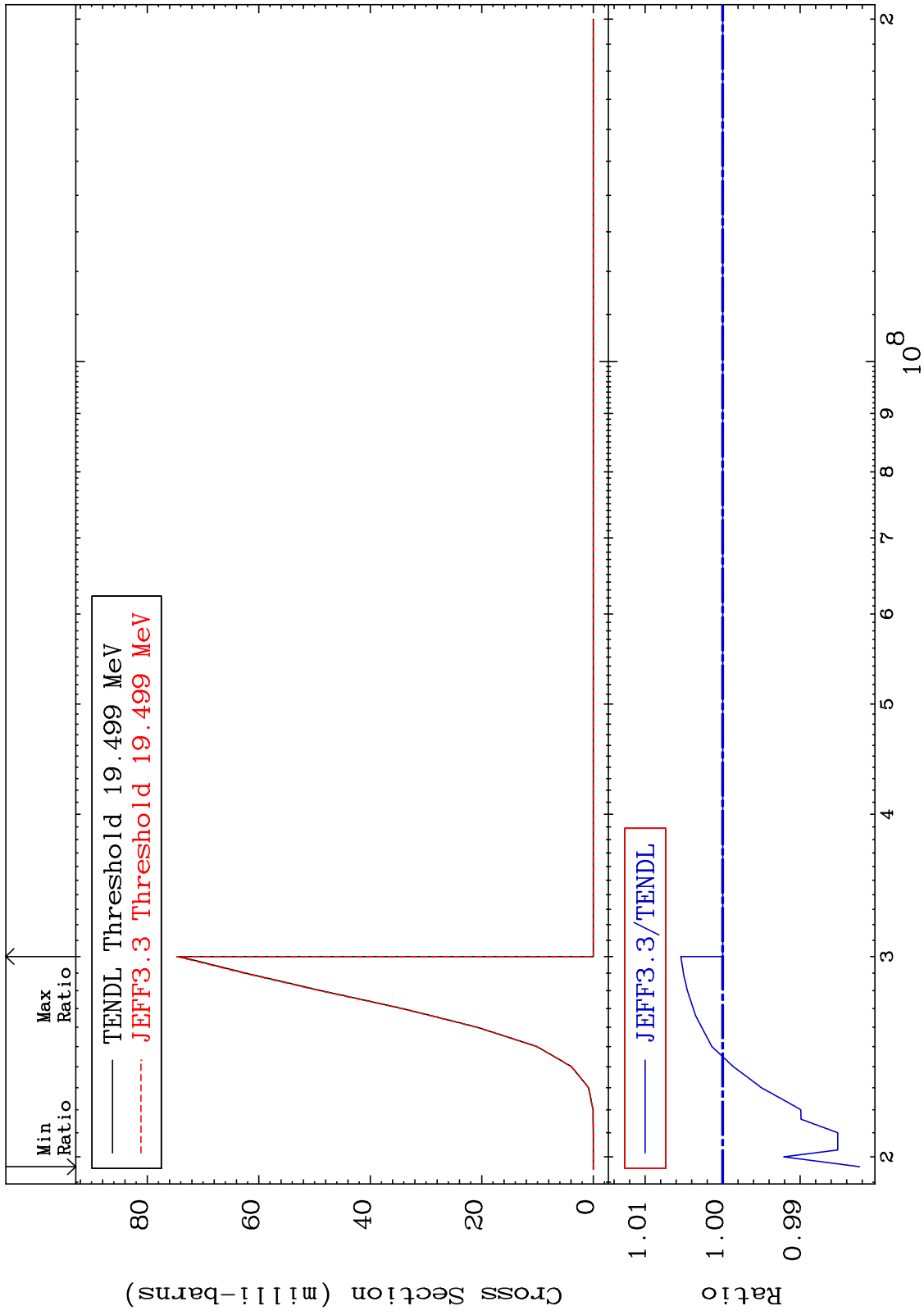
36-Kr-78

Radionuclide Production Cross Section -5.640 To 0.173 %



MAT 3625

(n,2n) p:35-Br-76g 36-Kr-78  
Radionuclide Production Cross Section -1.767 To 0.539 %

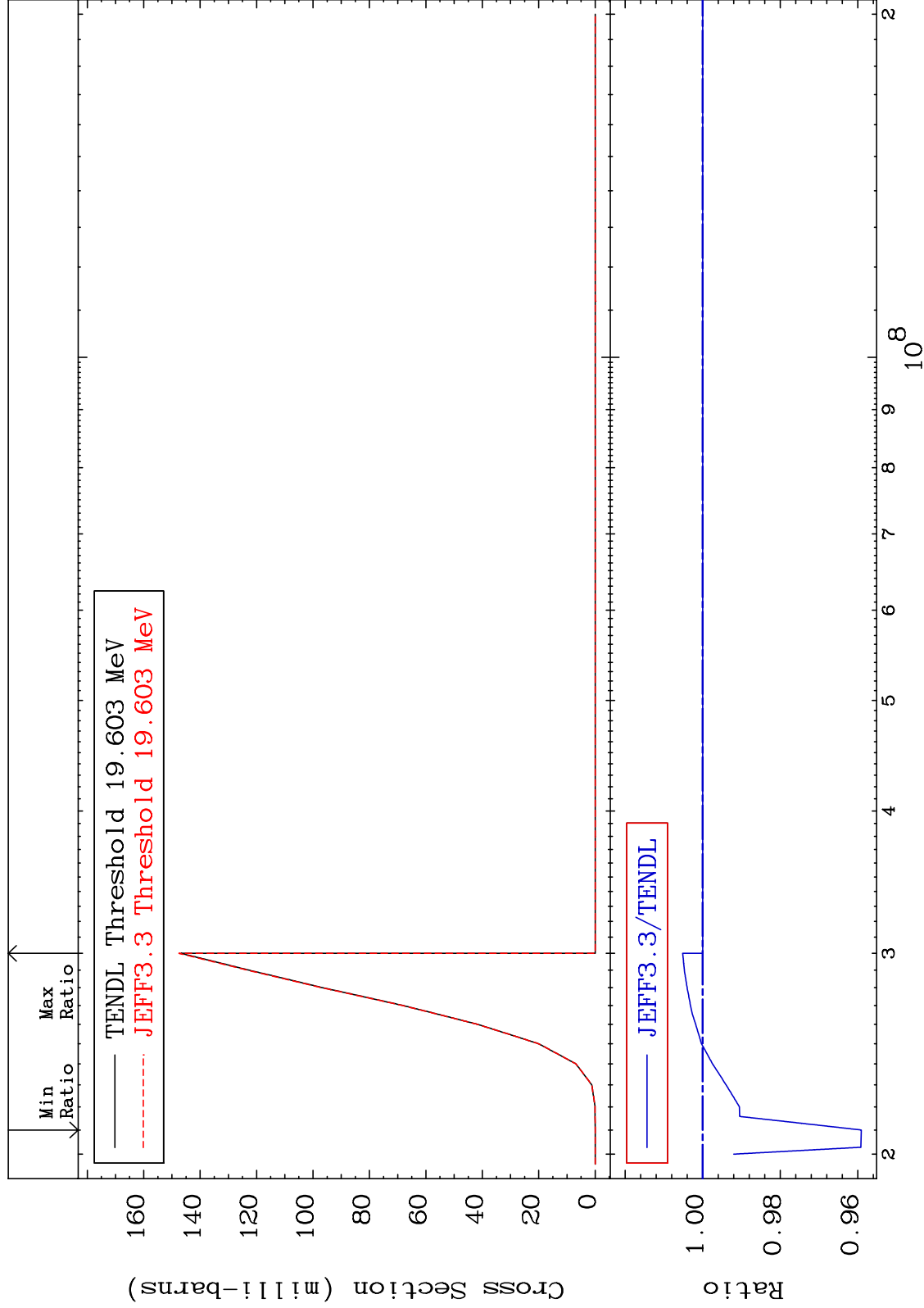


MAT 3625

(n,2n) p:35-Br-76m2

36-Kr-78

Radionuclide Production Cross Section -4.093 To 0.514 %



85

Incident Energy (eV)

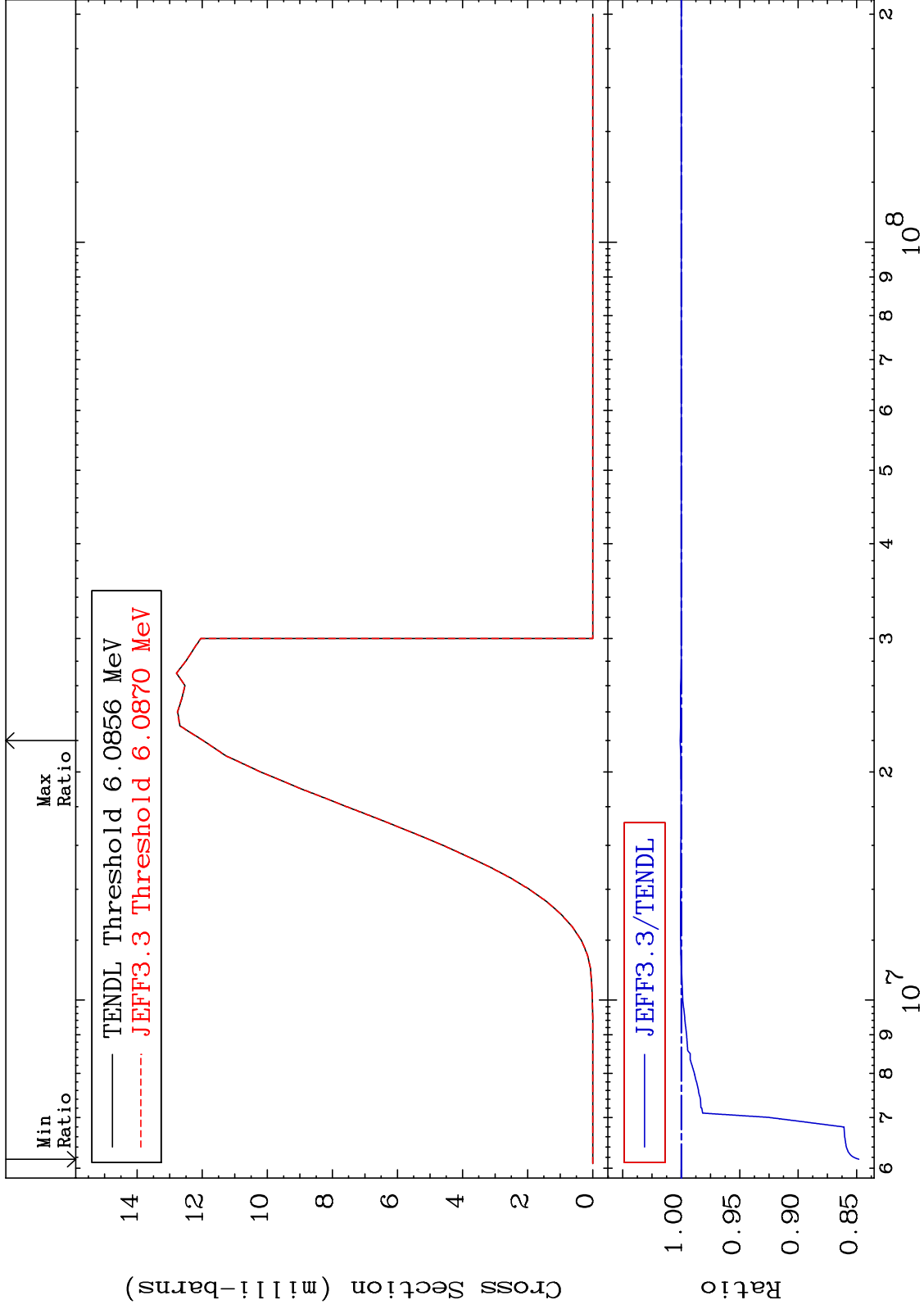
36-Kr-78

MAT 3625

36-Kr-78

(n, d) : 35-Br-77g

Radionuclide Production Cross Section -15.19 To 0.089 %



86

Incident Energy (eV)

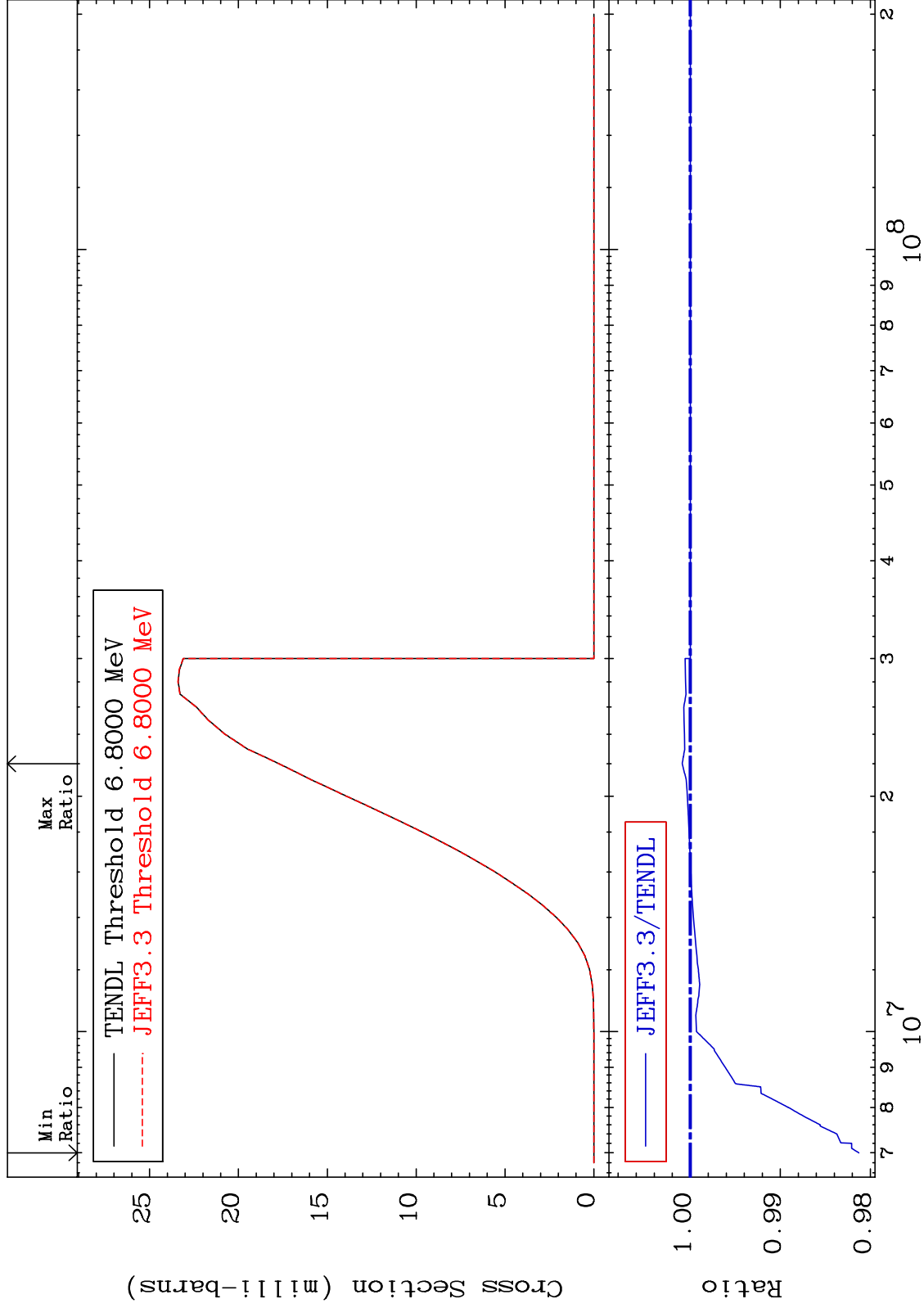
36-Kr-78

MAT 3625

(n, d) : 35-Br-77m1

36-Kr-78

Radionuclide Production Cross Section -1.872 To 0.090 %



87

Incident Energy (eV)

36-Kr-78

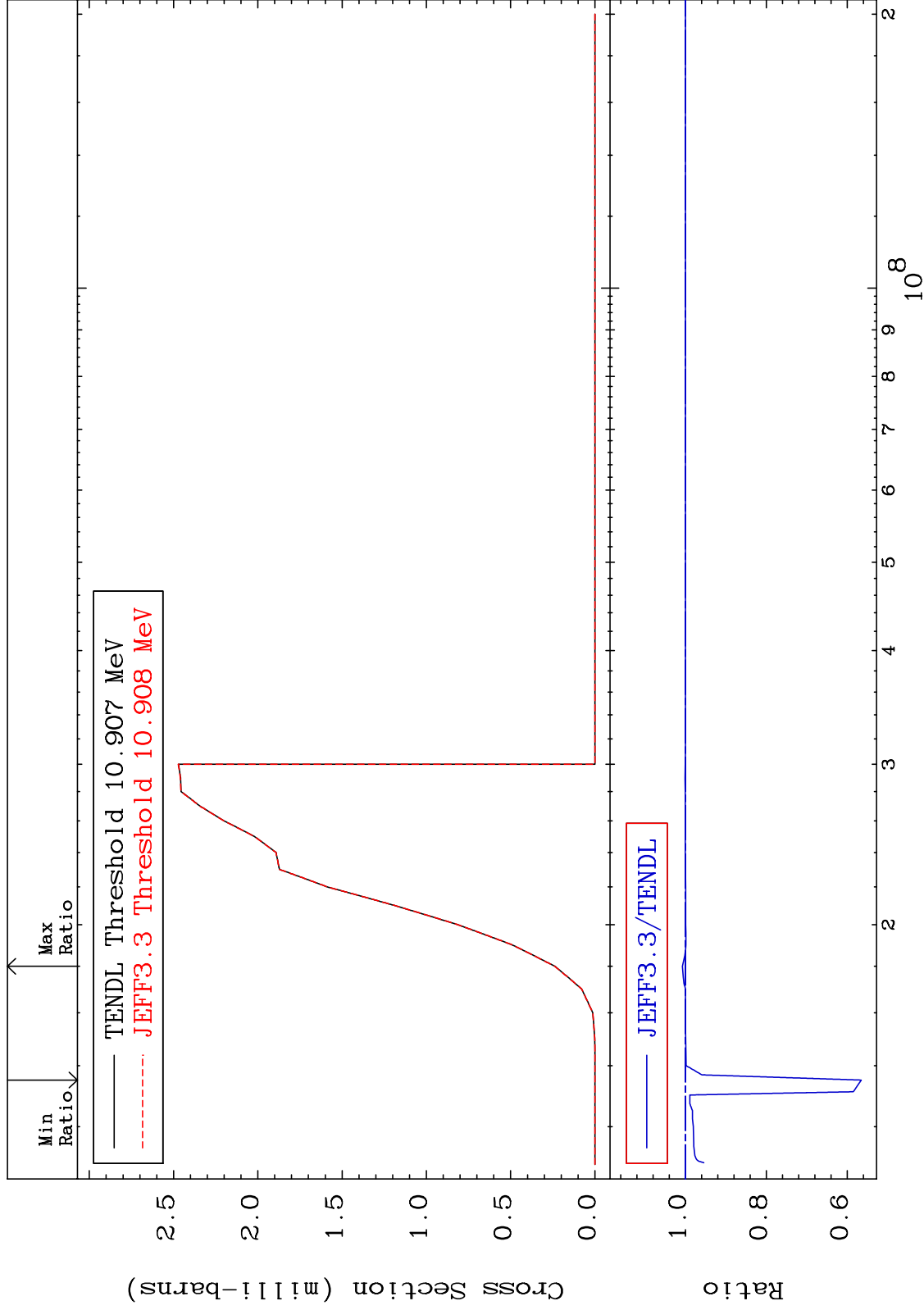


MAT 3625

(n, t) : 35-Br-76g

36-Kr-78

Radionuclide Production Cross Section -43.47 To 0.726 %

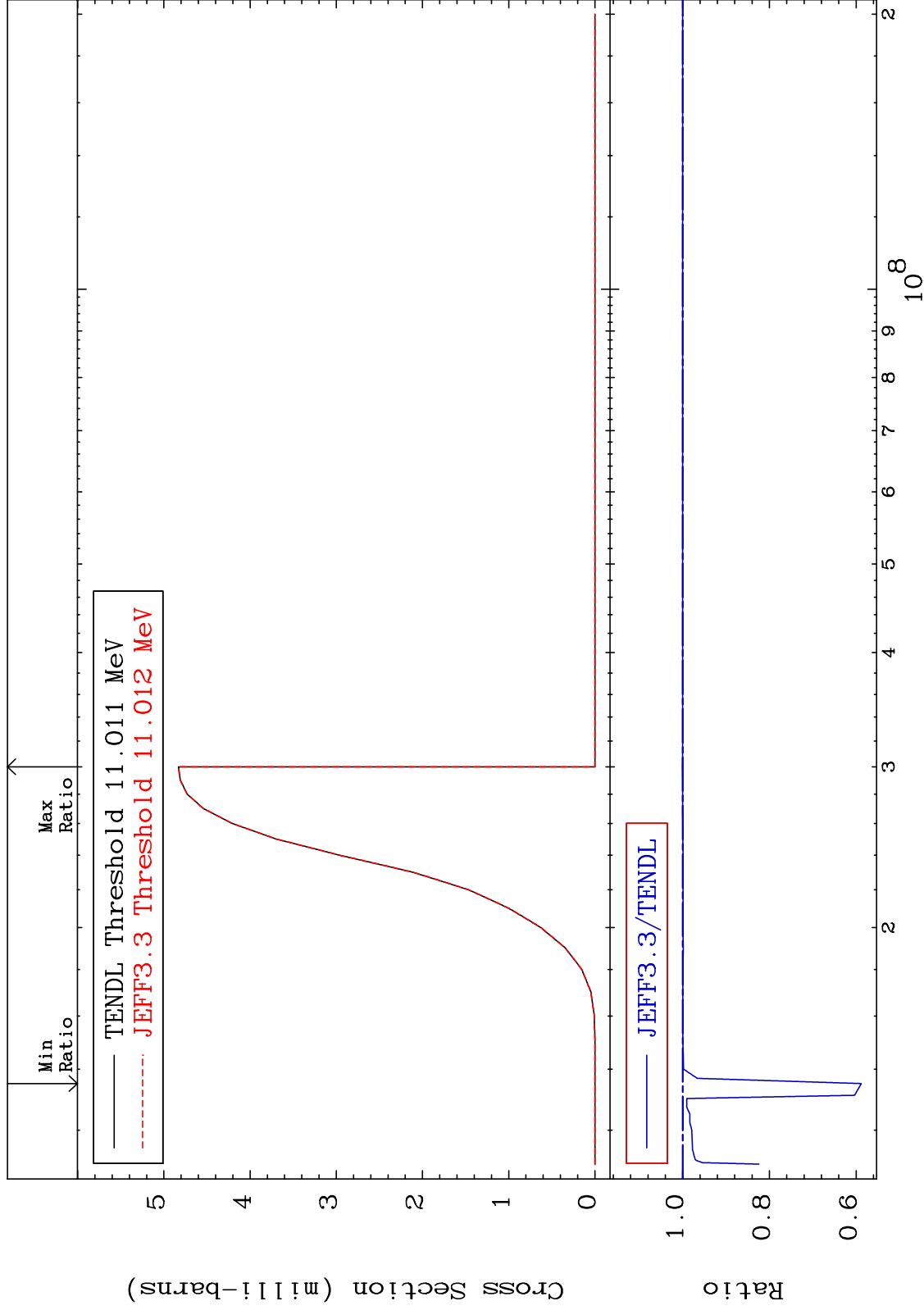


MAT 3625

(n, t) : 35-Br-76m2

36-Kr-78

Radionuclide Production Cross Section -41.19 To 0.054 %



89

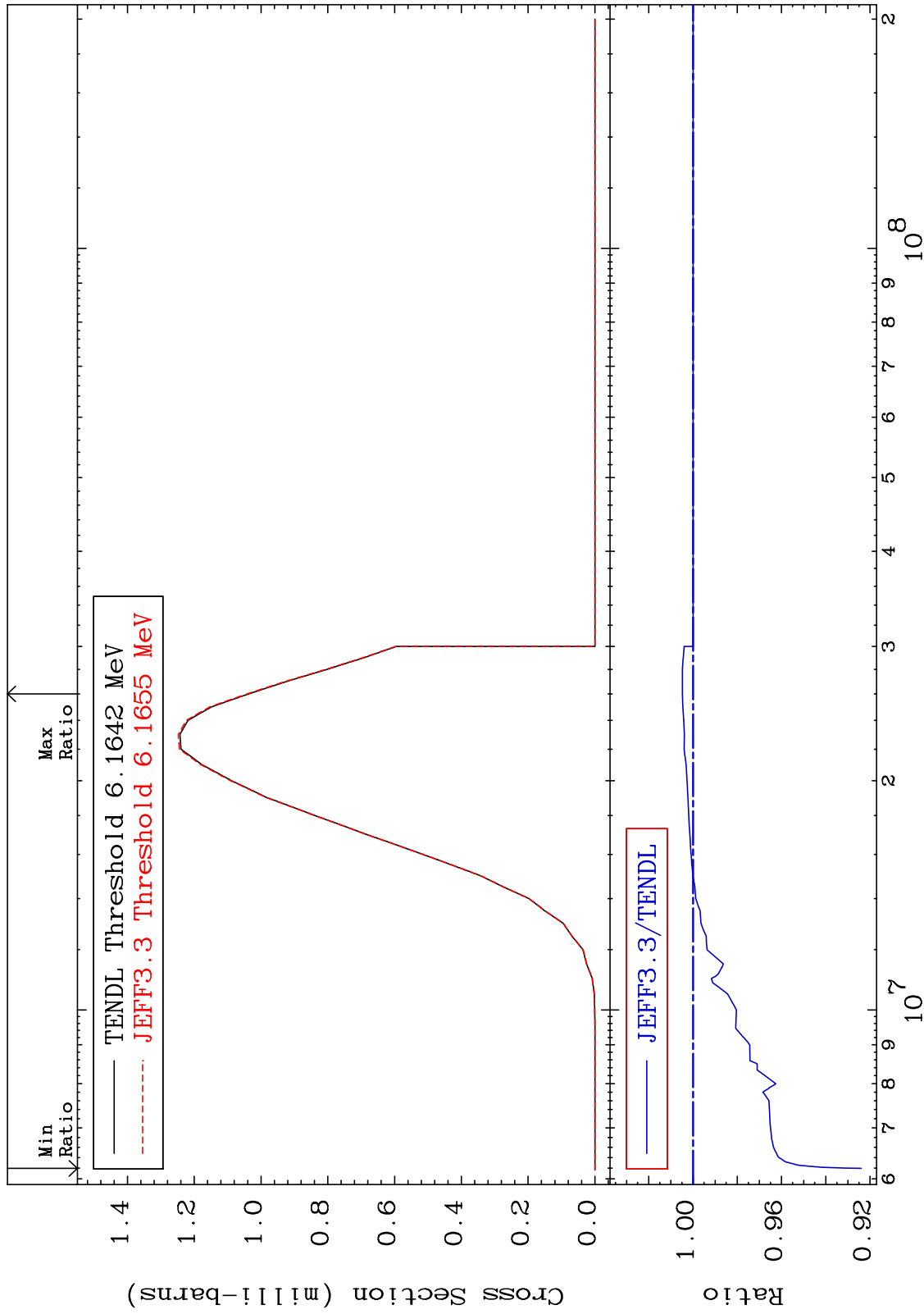
Incident Energy (eV)

36-Kr-78

MAT 3625

36-Kr-78

(n,2p) : 34-Se-77g -7.603 To 0.477 %  
Radionuclide Production Cross Section



90

Incident Energy (eV)

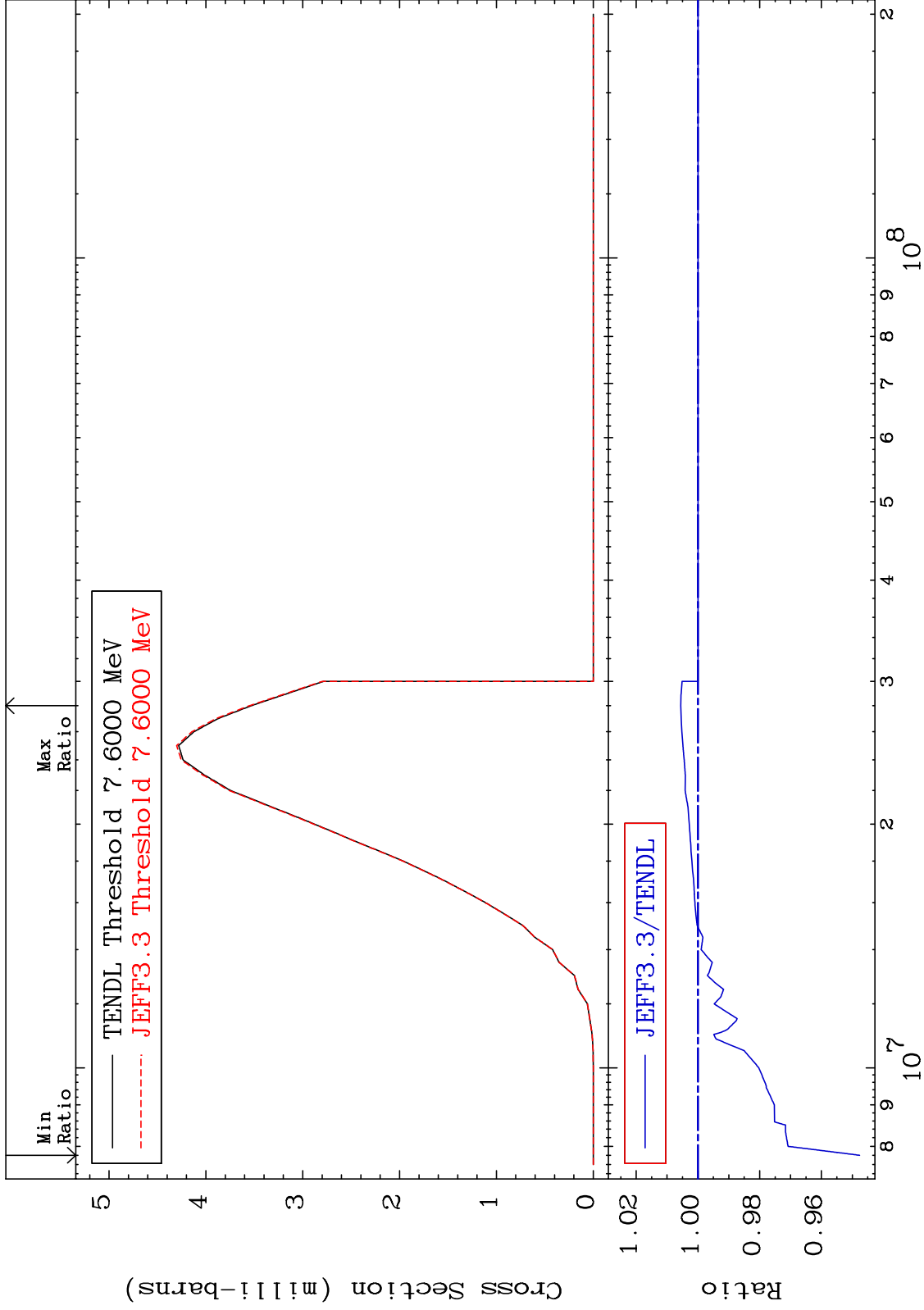
36-Kr-78

MAT 3625

(n,2p):34-Se-77m1

36-Kr-78

Radionuclide Production Cross Section -5.239 To 0.554 %



91

Incident Energy (eV)

36-Kr-78