

Program Complot  
(Version 2018-1)

by

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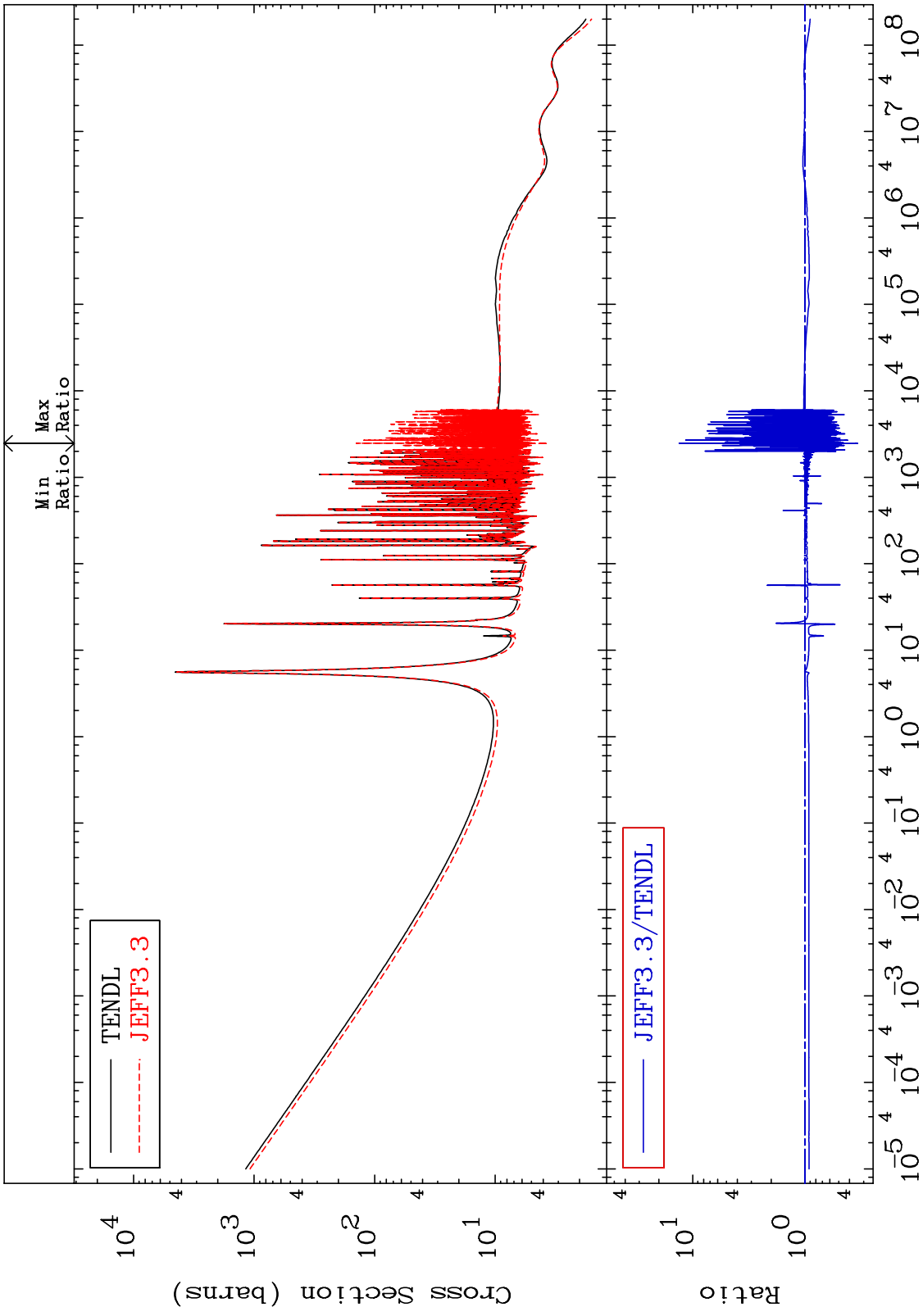
U.S.A.

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Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 4325 43-Tc-99  
Total Cross Section -66.23 To 1224. %

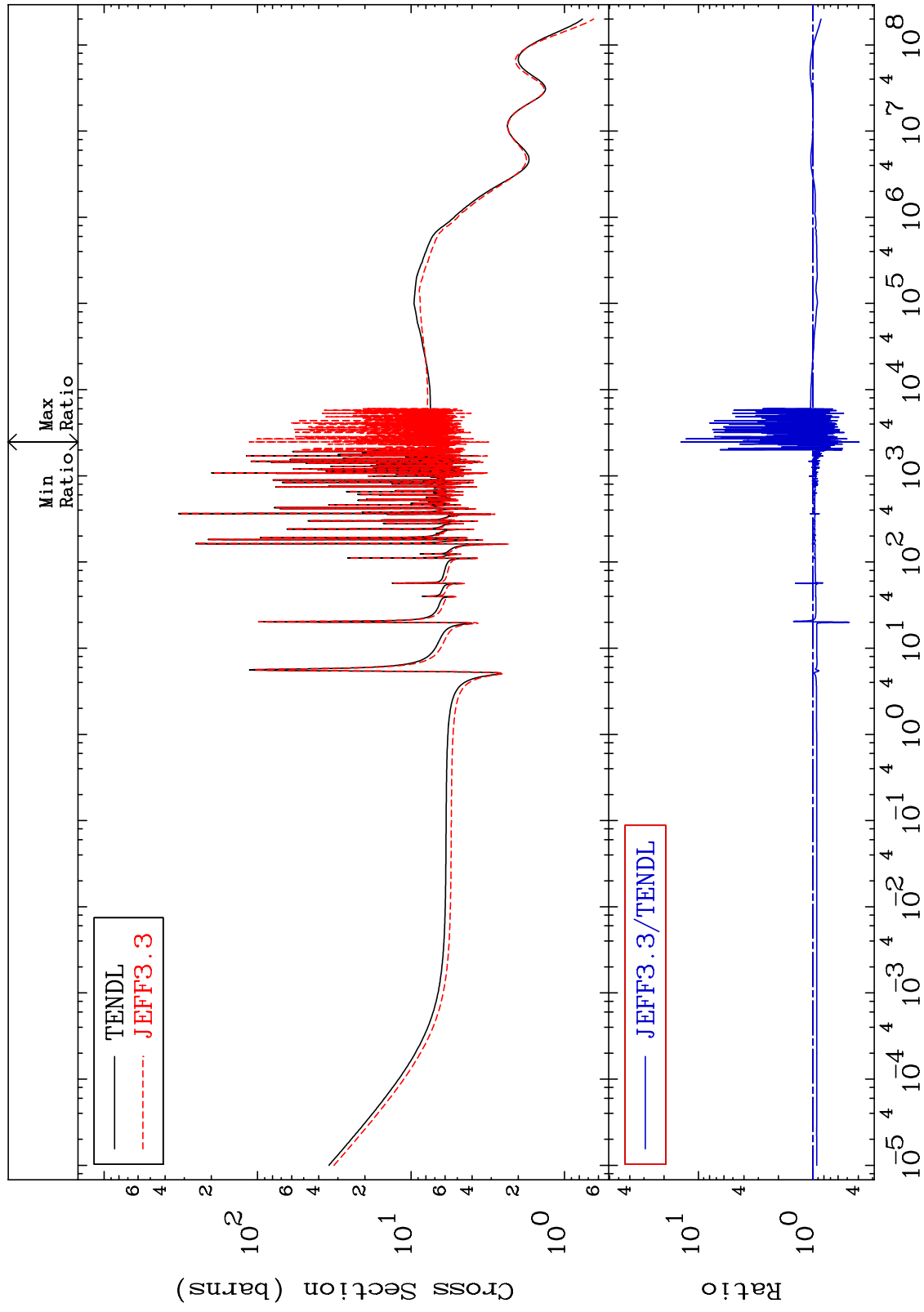


43-Tc-99

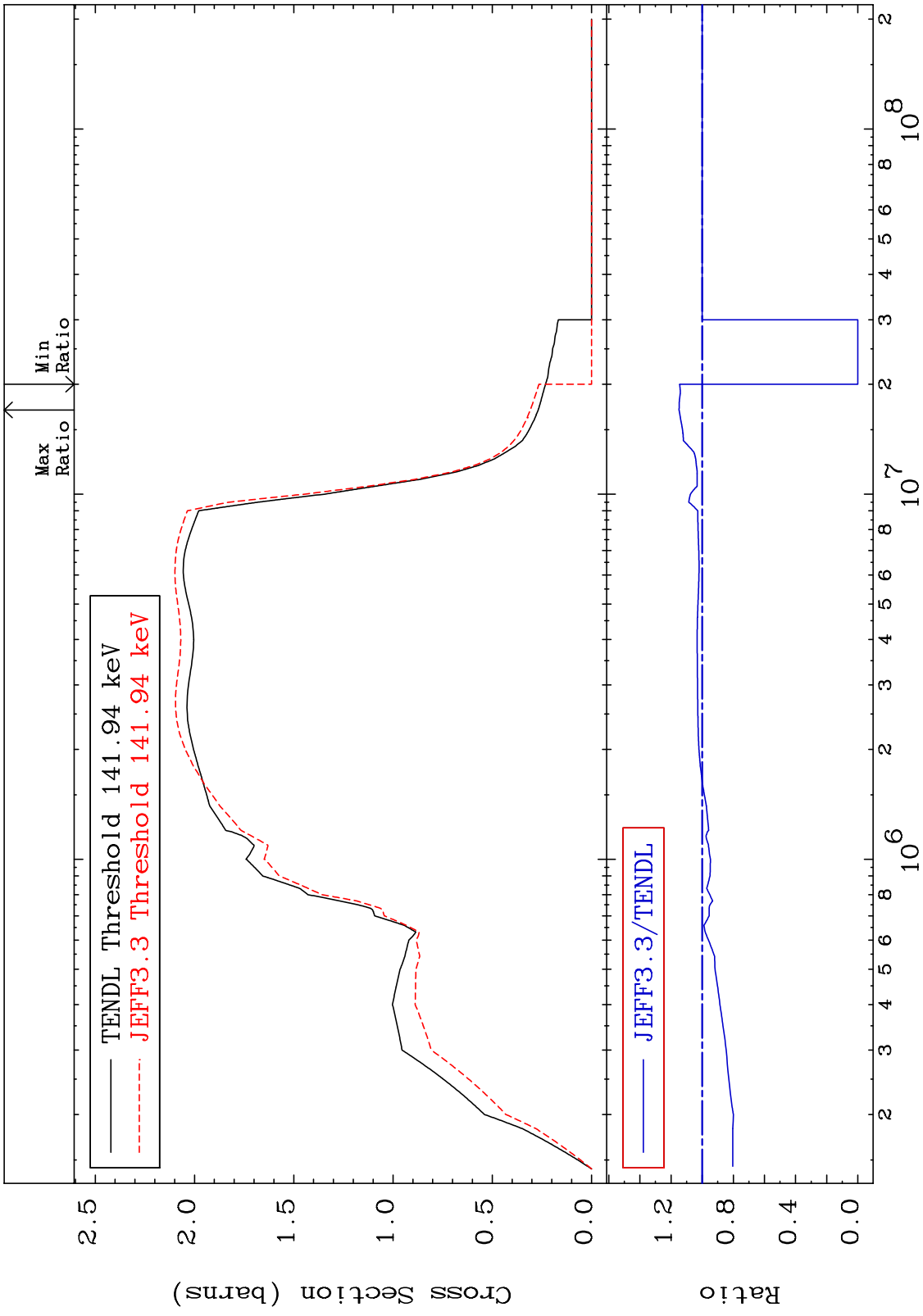
MAT 4325

Elastic  
Cross Section

43-Tc-99  
-60.63 To 1327. %



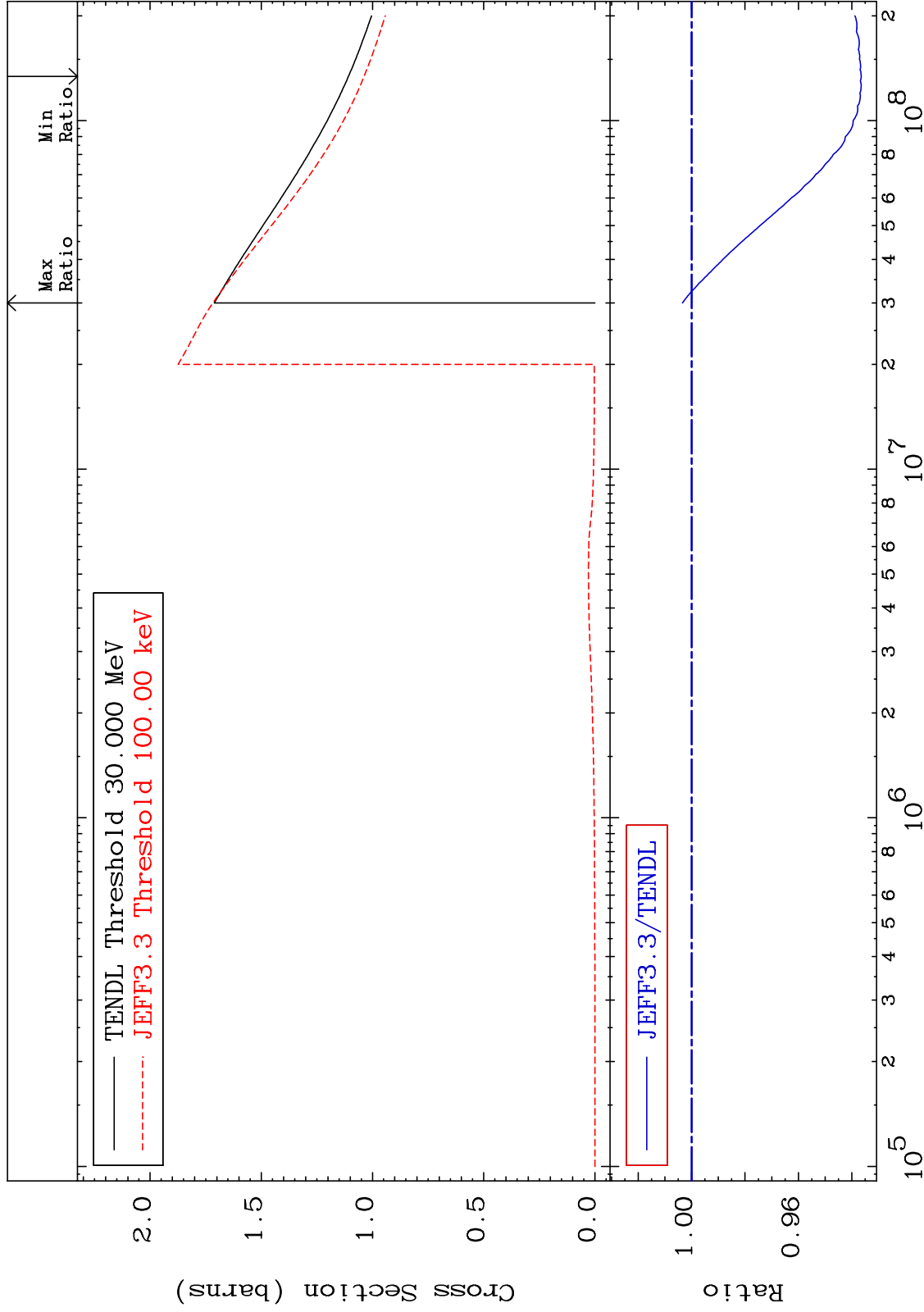
MAT 4325 Inelastic Cross Section 43-Tc-99 -100.0 To 14.86 %



MAT 4325

(n, remainder)  
Cross Section

43-Tc-99  
-6.356 To 0.344 %

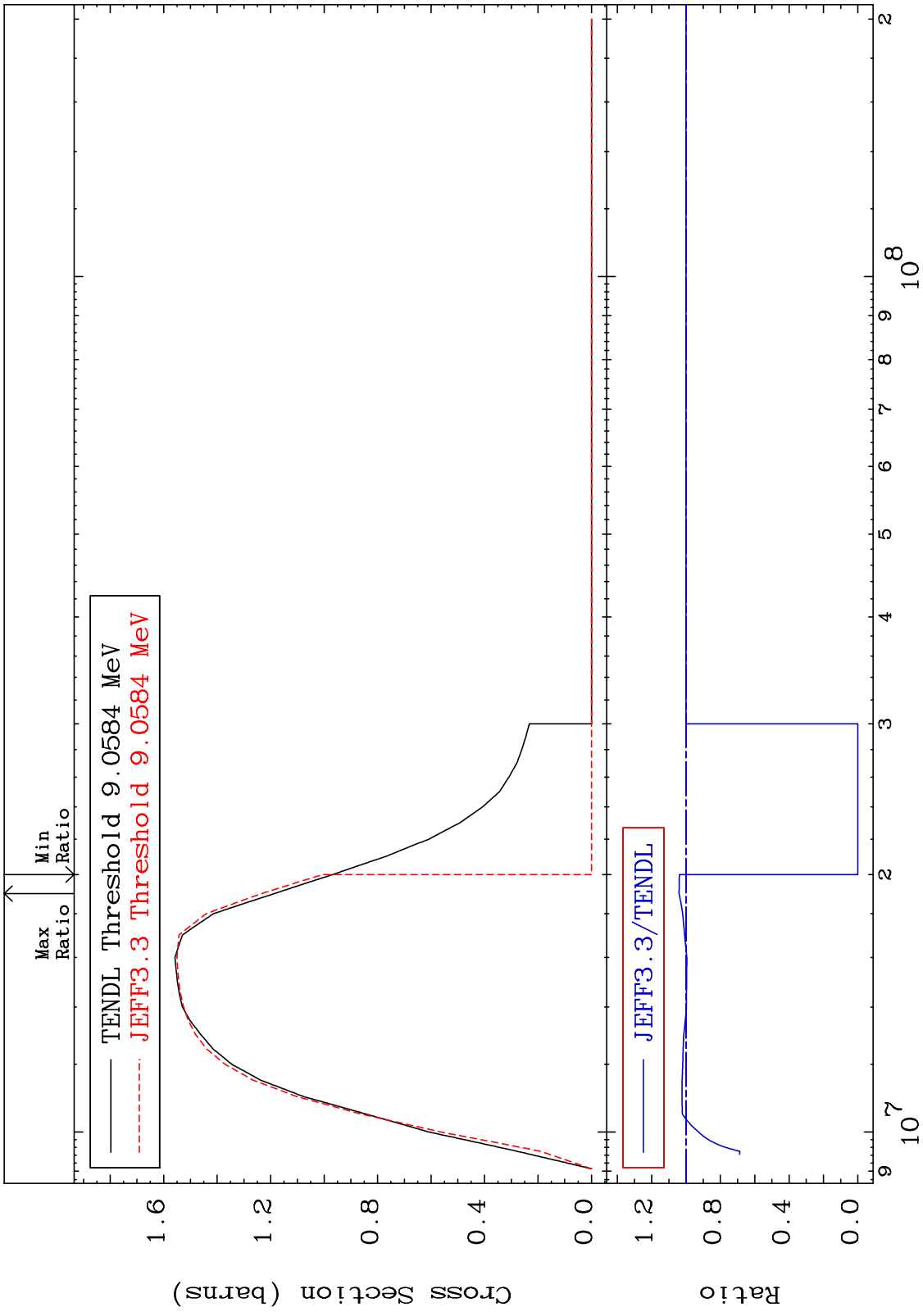


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Incident Energy (eV)

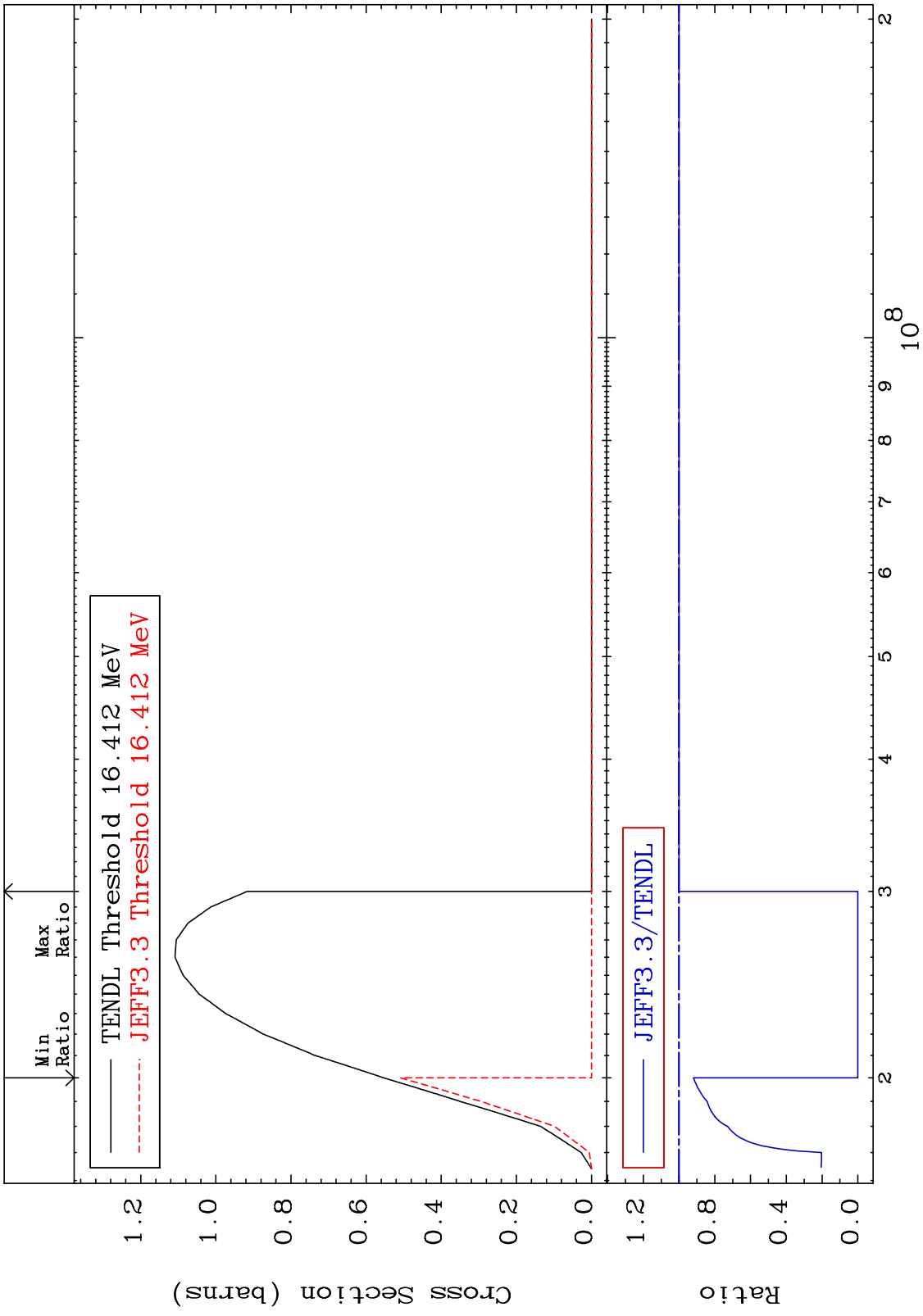
43-Tc-99

MAT 4325 (n,2n) Cross Section 43-Tc-99 -100.0 To 4.053 %

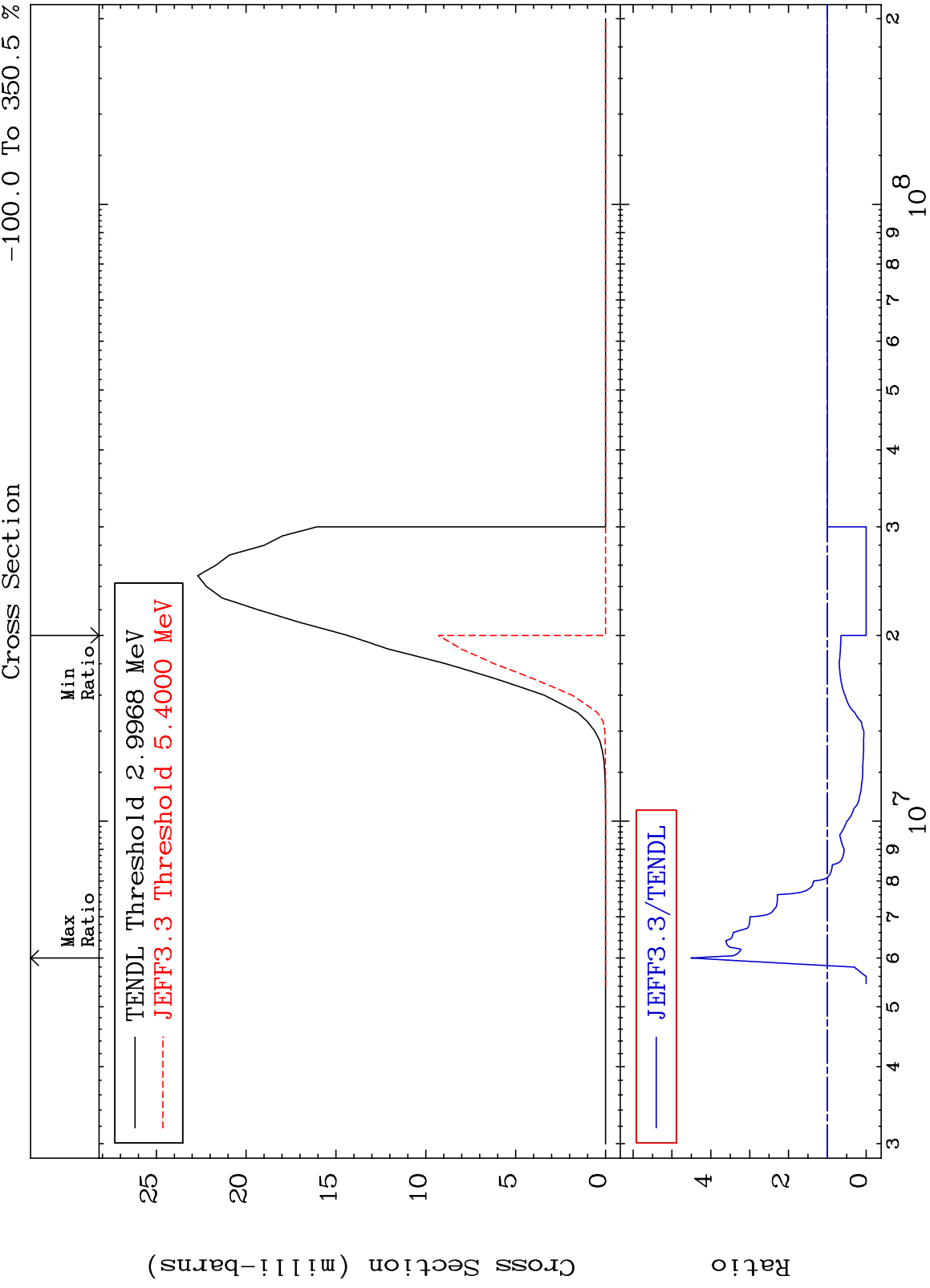


43-Tc-99

MAT 4325 (n,3n) 43-Tc-99  
 Cross Section -100.0 To 0.000 %



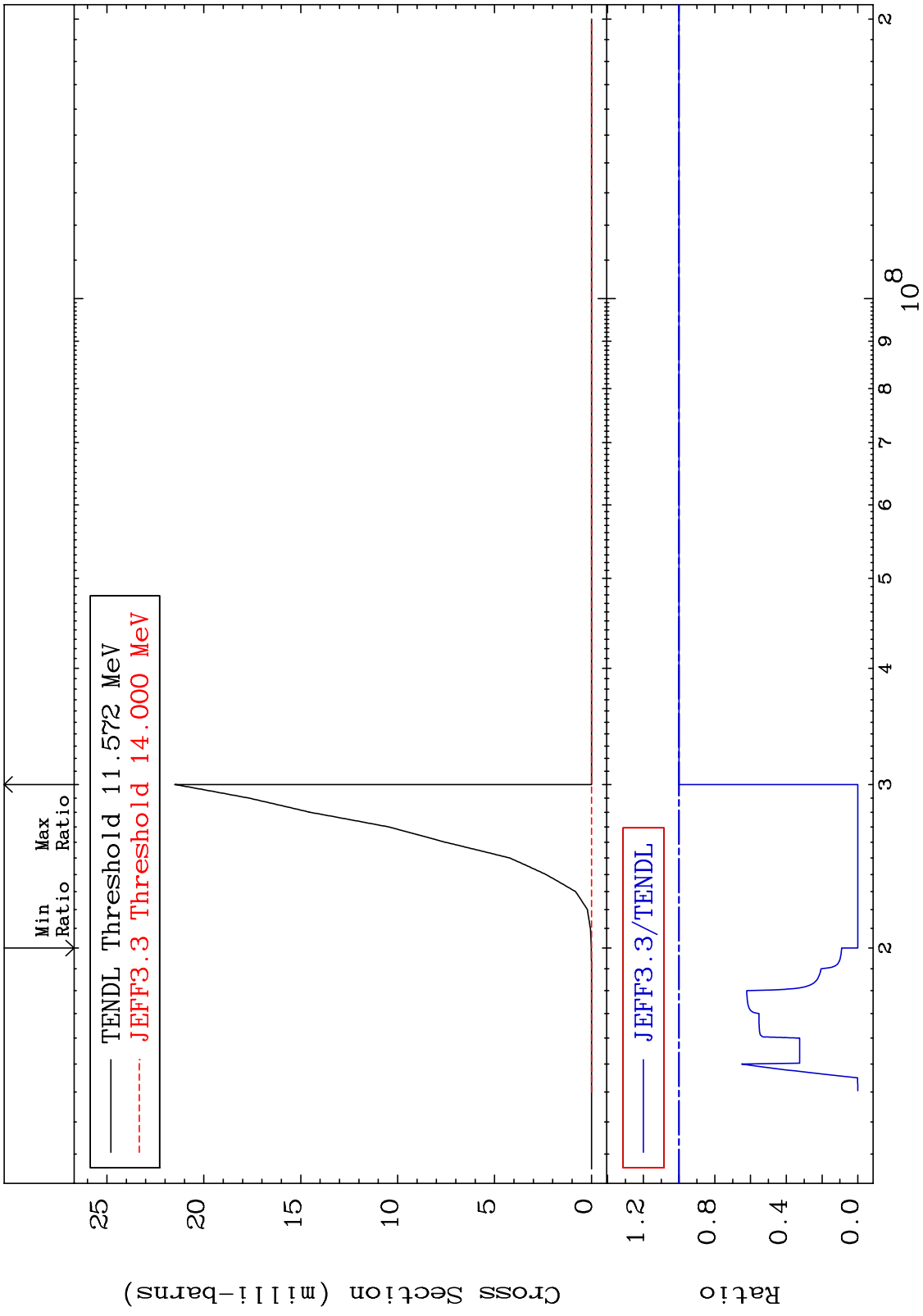
MAT 4325  $(n, n') \alpha$  43-Tc-99 -100.0 To 350.5 %



7 43-Tc-99



MAT 4325  $(n, 2n) \alpha$  43-Tc-99  
 Cross Section -100.0 To 0.000 %



MAT 4325

(n, n') p

43-Tc-99

-100.0 To 0.000 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 6.5672 MeV  
JEFF3.3 Threshold 7.0000 MeV

Cross Section (milli-barns)

60  
50  
40  
30  
20  
10  
0

1.2

Ratio

0.8  
0.4  
0.0

JEFF3.3/TENDL

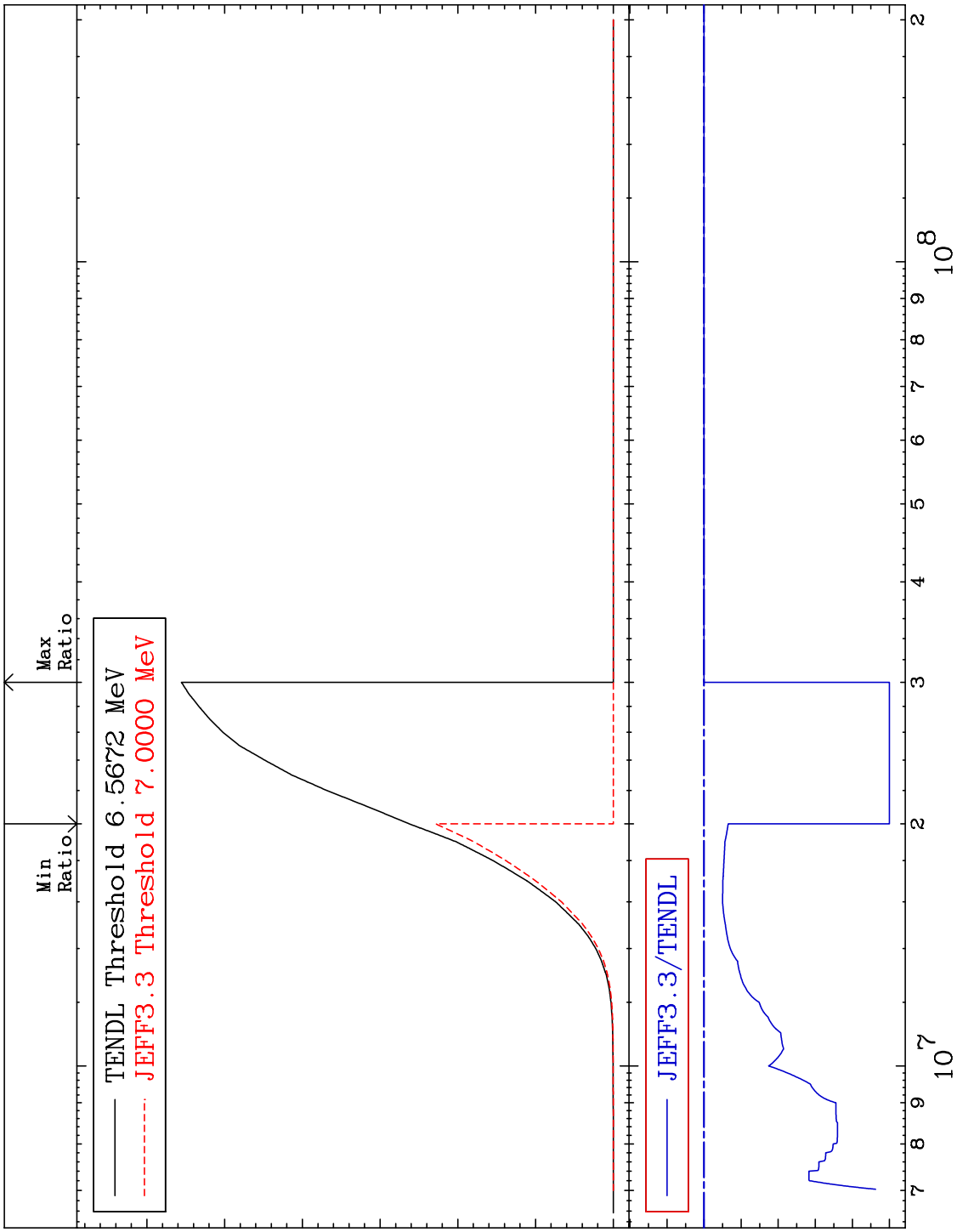
10<sup>7</sup>

10<sup>8</sup>

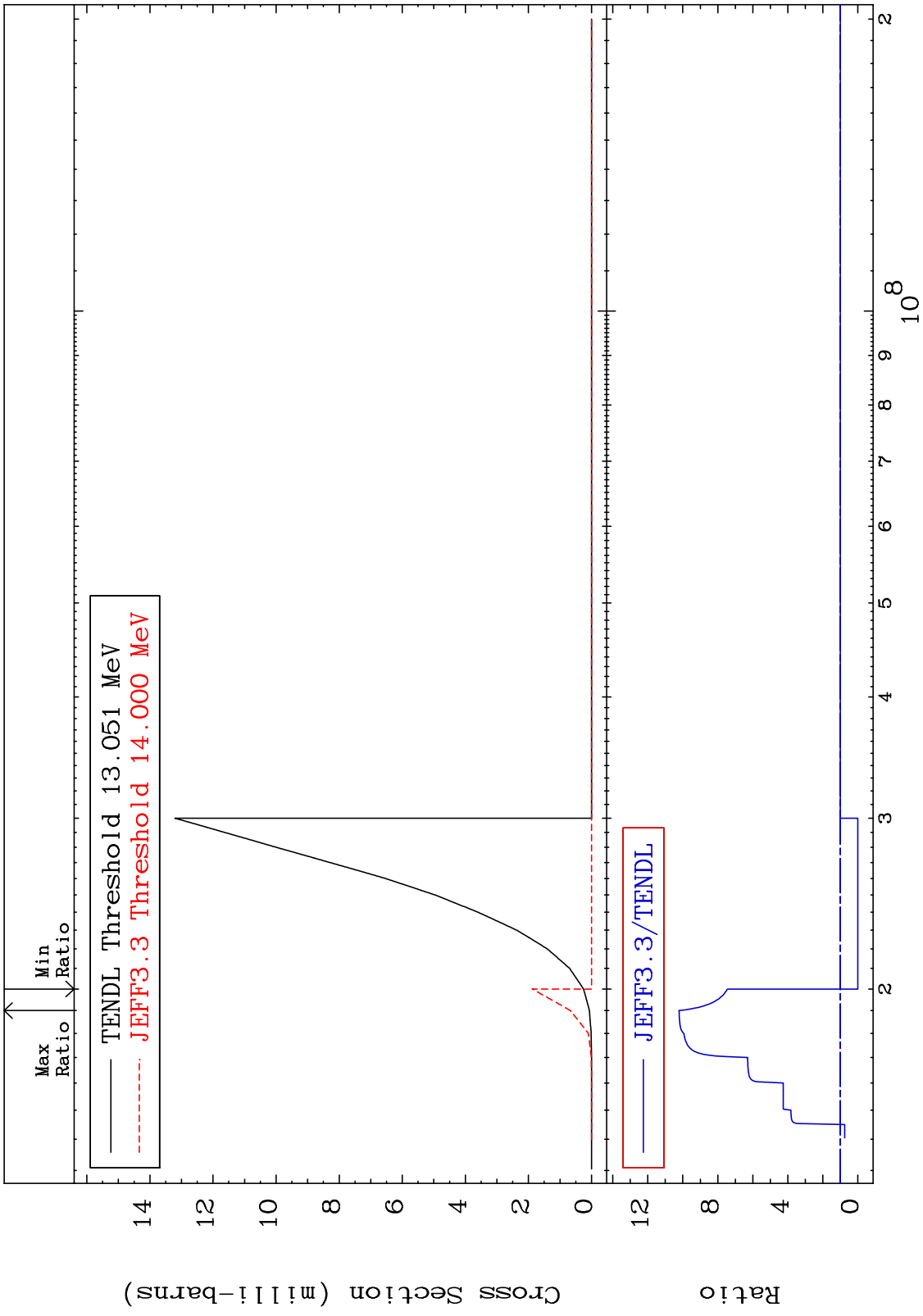
9

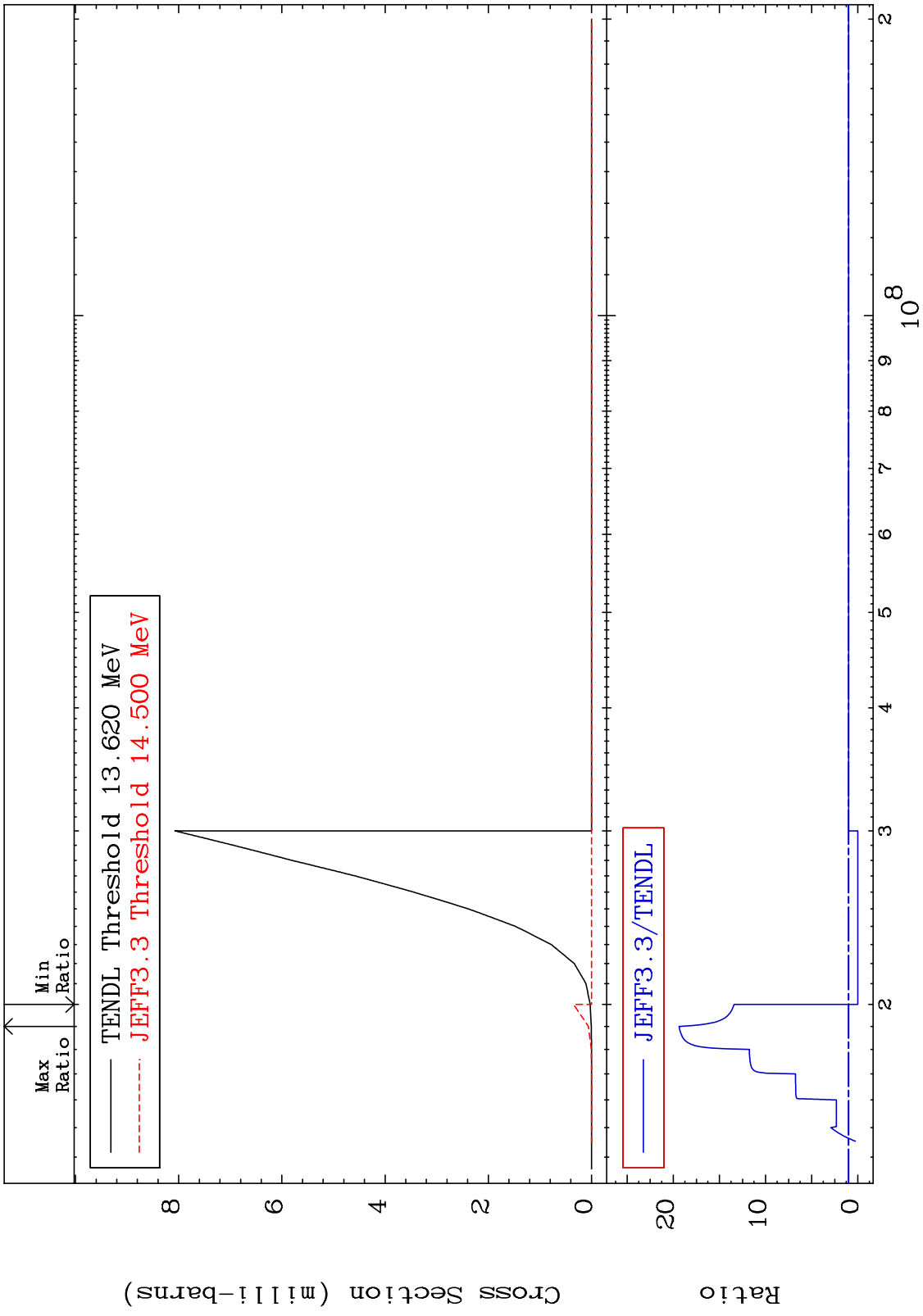
Incident Energy (eV)

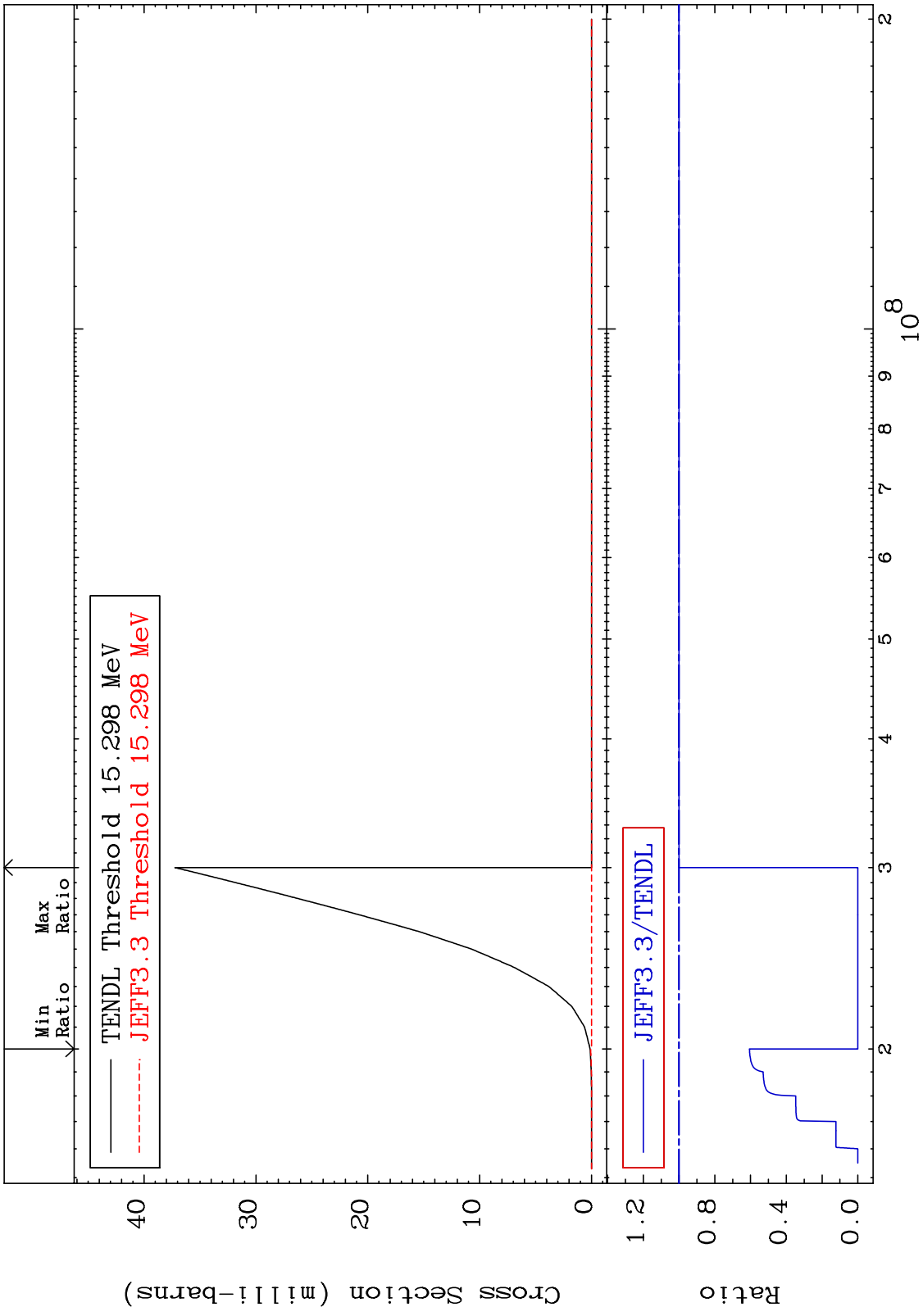
43-Tc-99



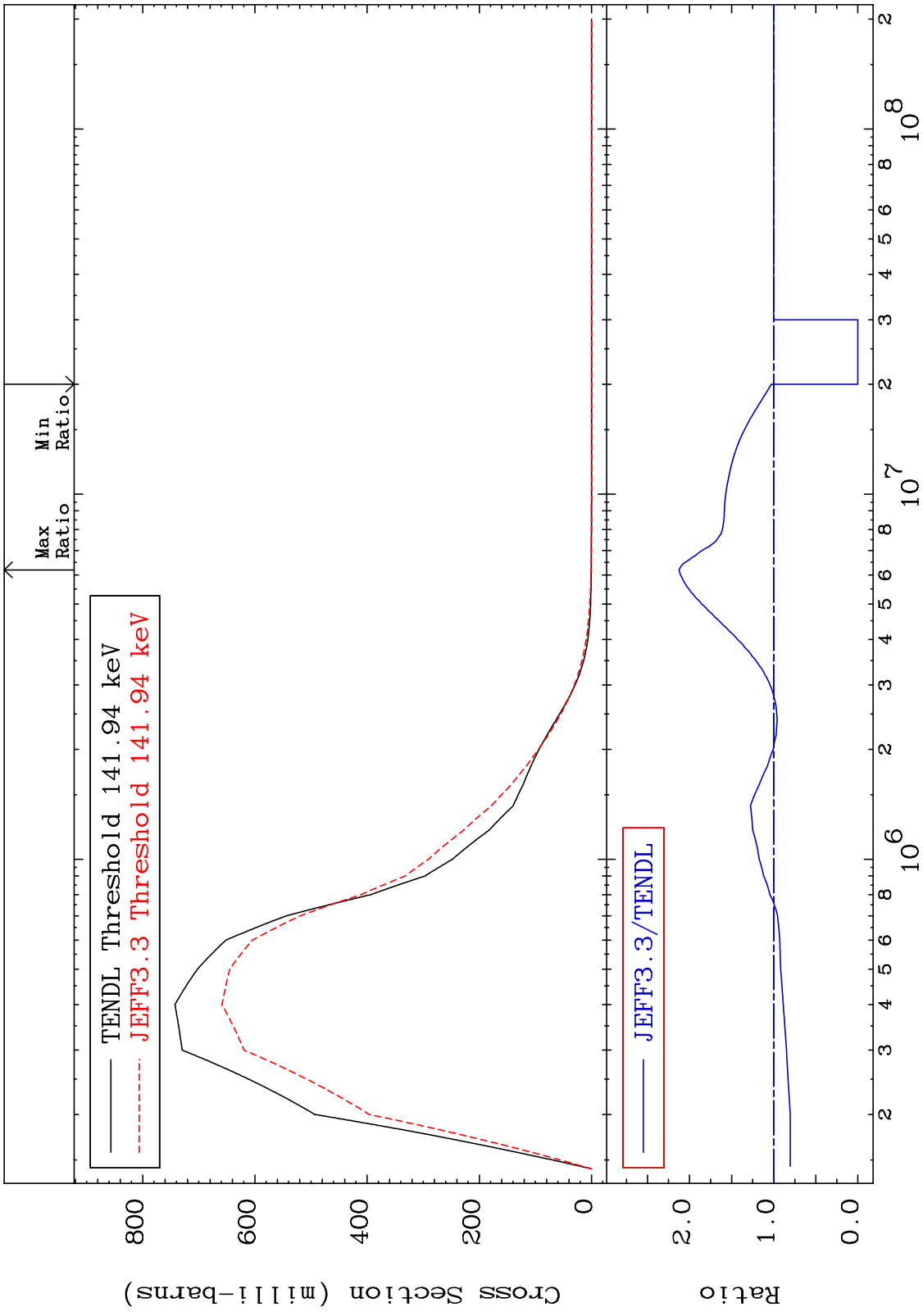
MAT 4325 (n, n') d 43-Tc-99  
 Cross Section -100.0 To 921.4 %



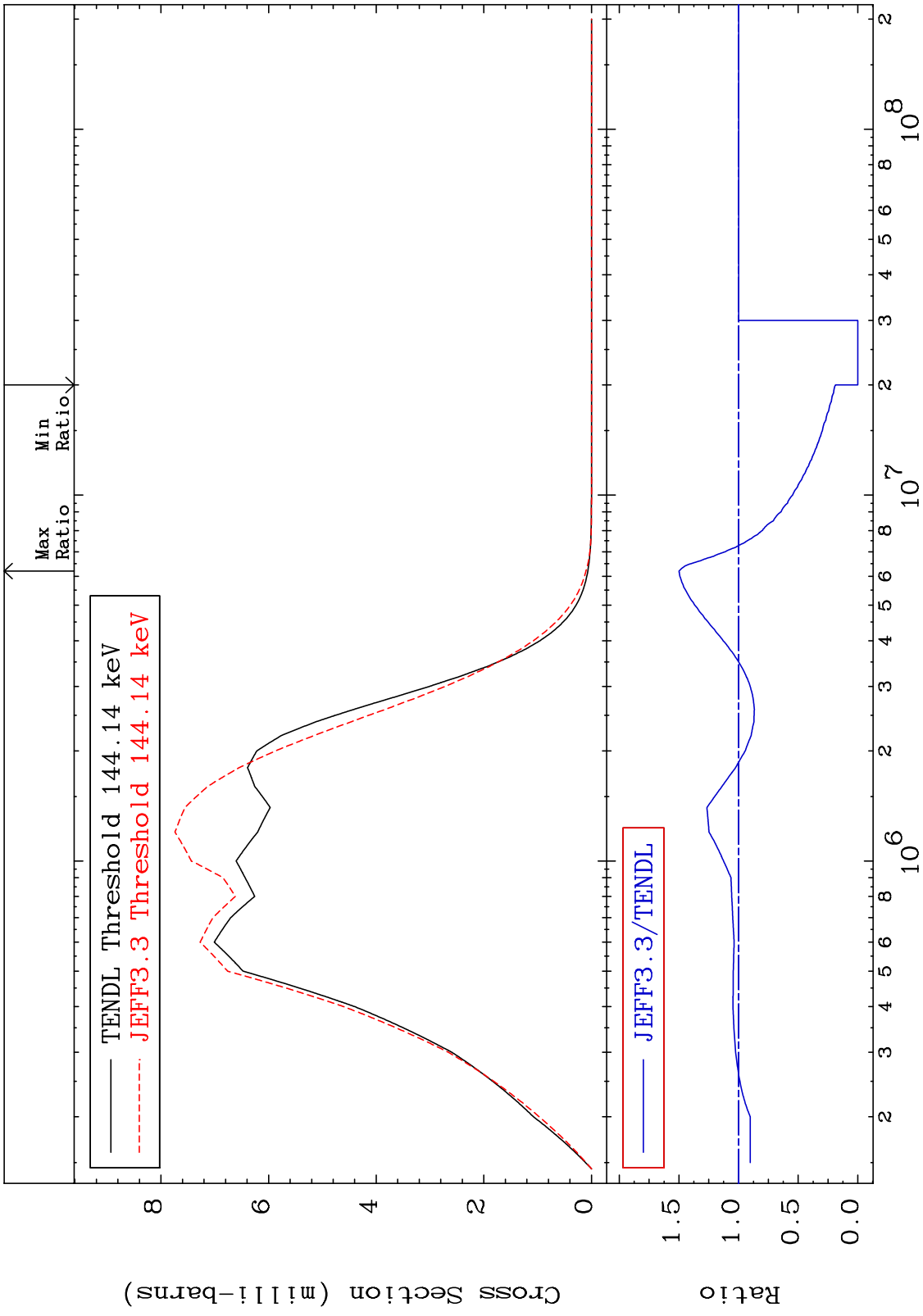




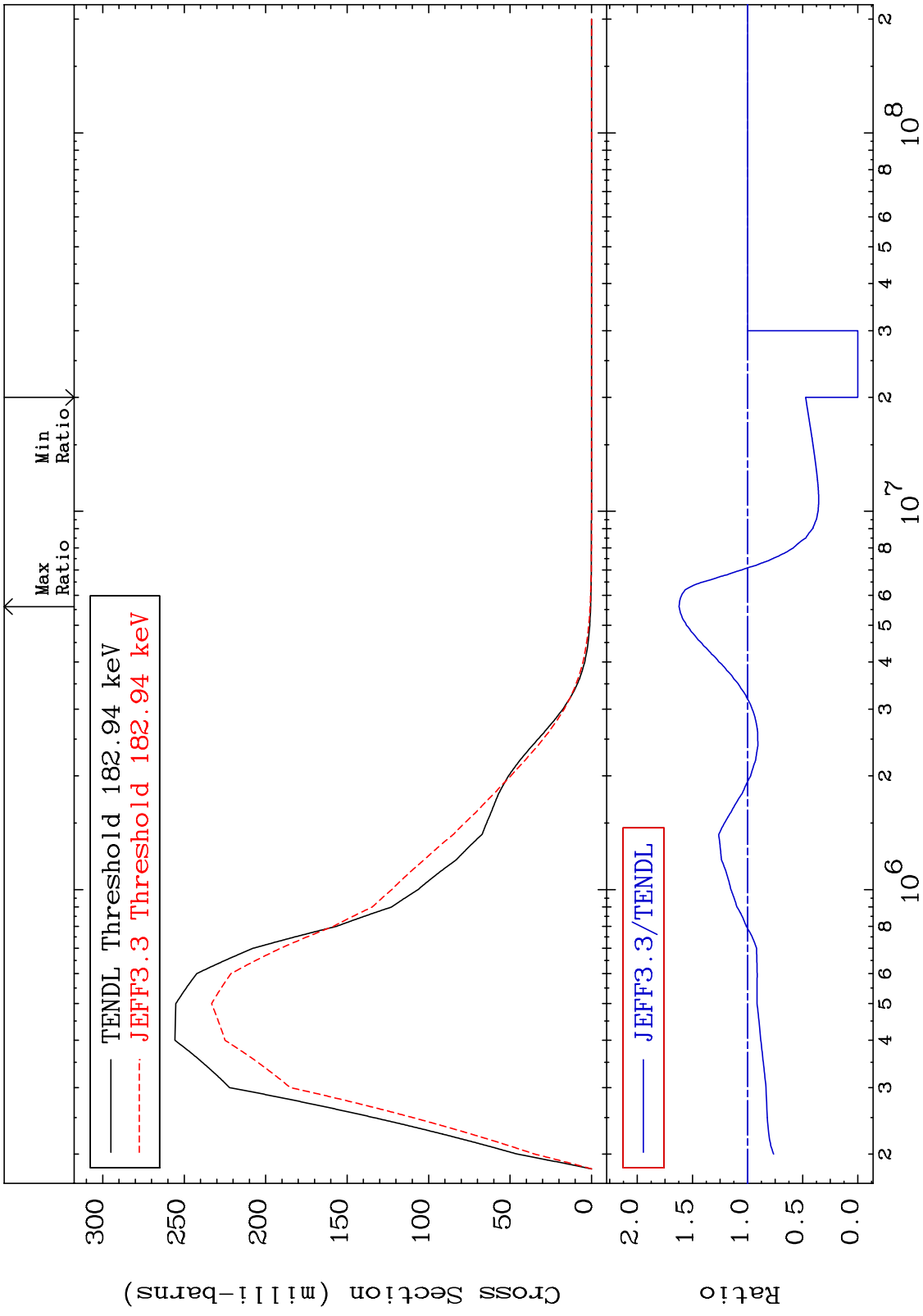
MAT 4325 MT= 51 (n,n') Level Cross Section -100.0 To 112.5 % 43-Tc-99



MAT 4325 MT= 52 (n,n') Level Cross Section -100.0 To 49.90 % 43-Tc-99

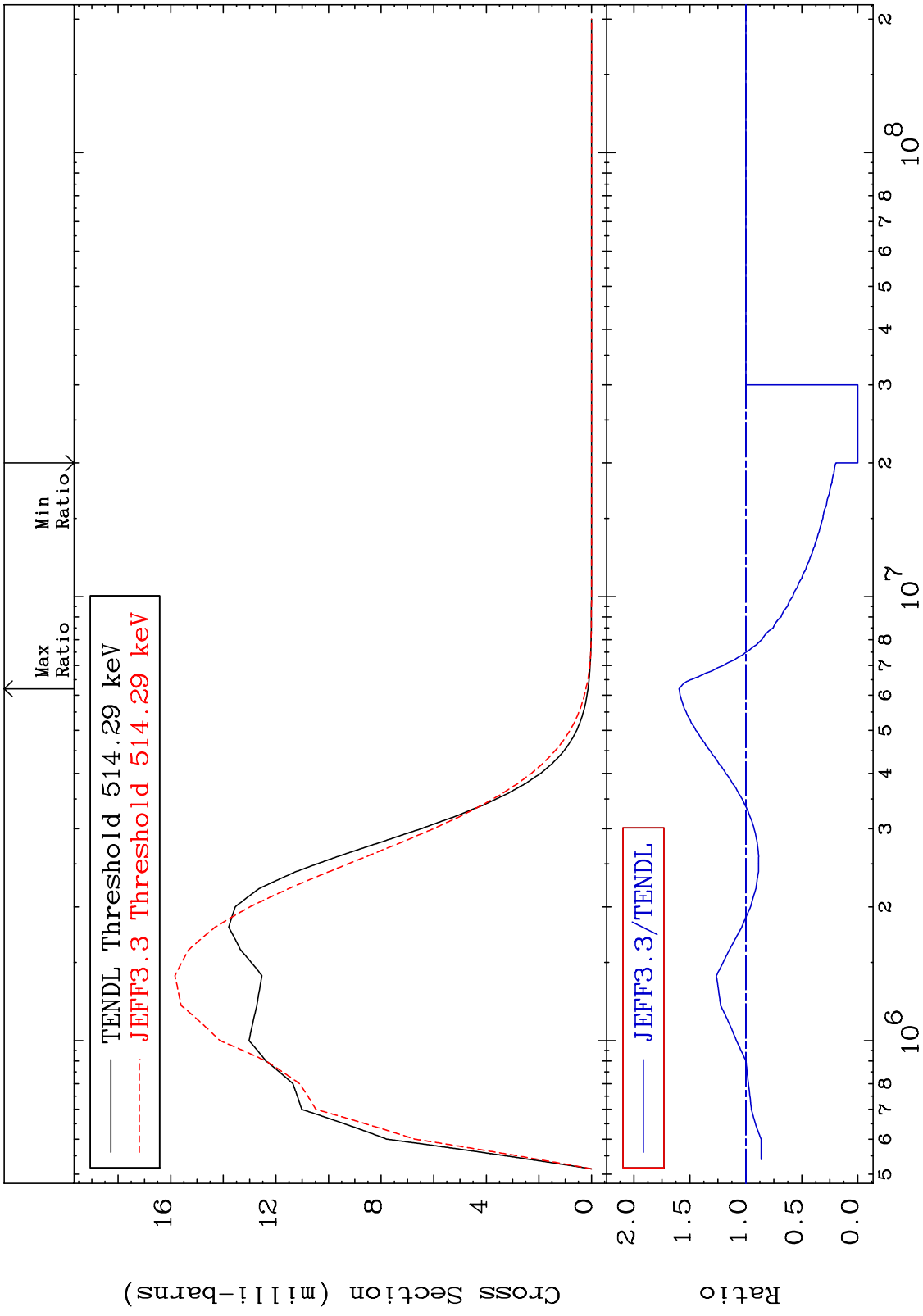


MAT 4325 MT= 53 (n, n') Level Cross Section -100.0 To 62.16 % 43-Tc-99

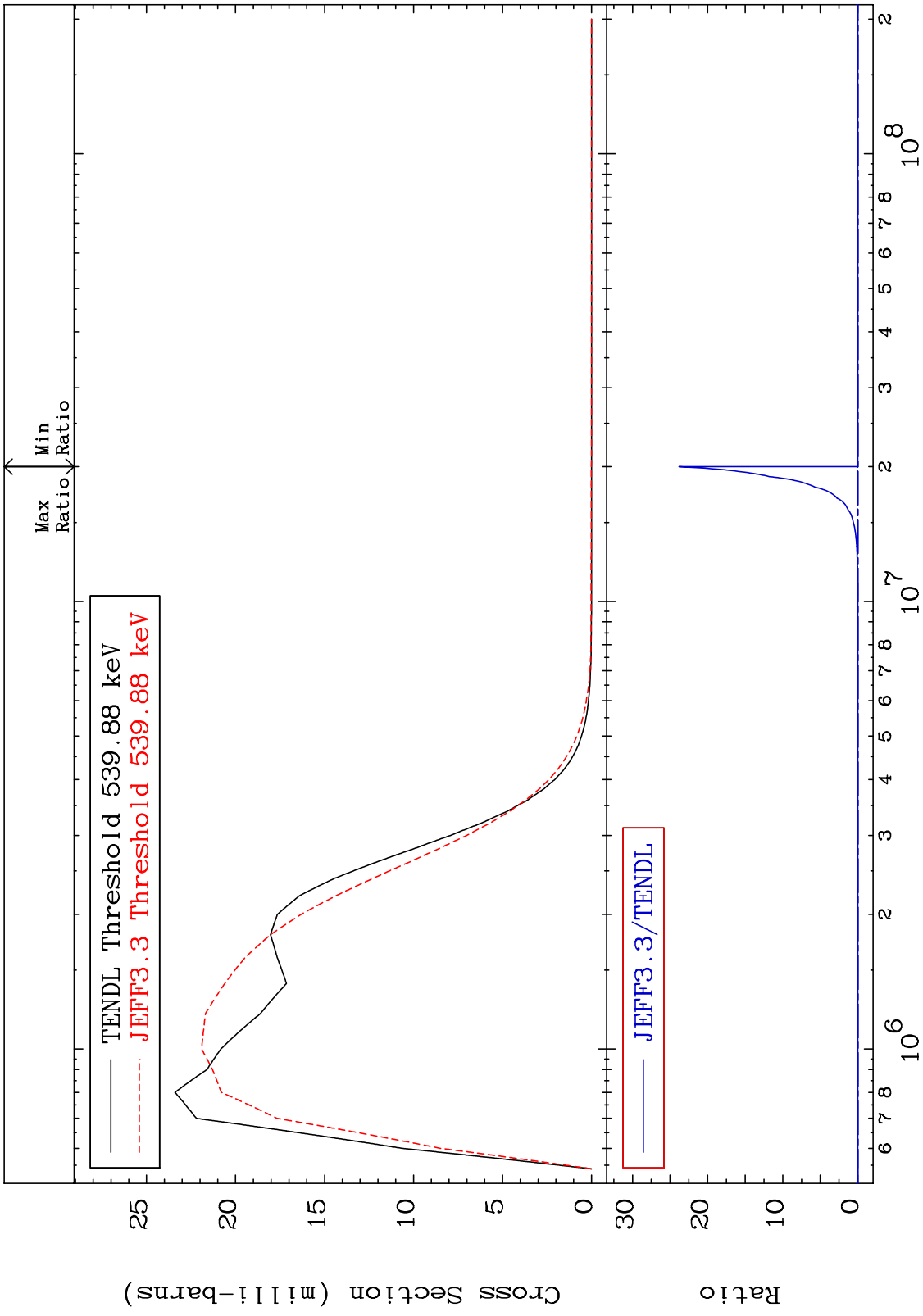




MAT 4325 MT= 54 (n,n') Level Cross Section -100.0 To 59.77 % 43-Tc-99



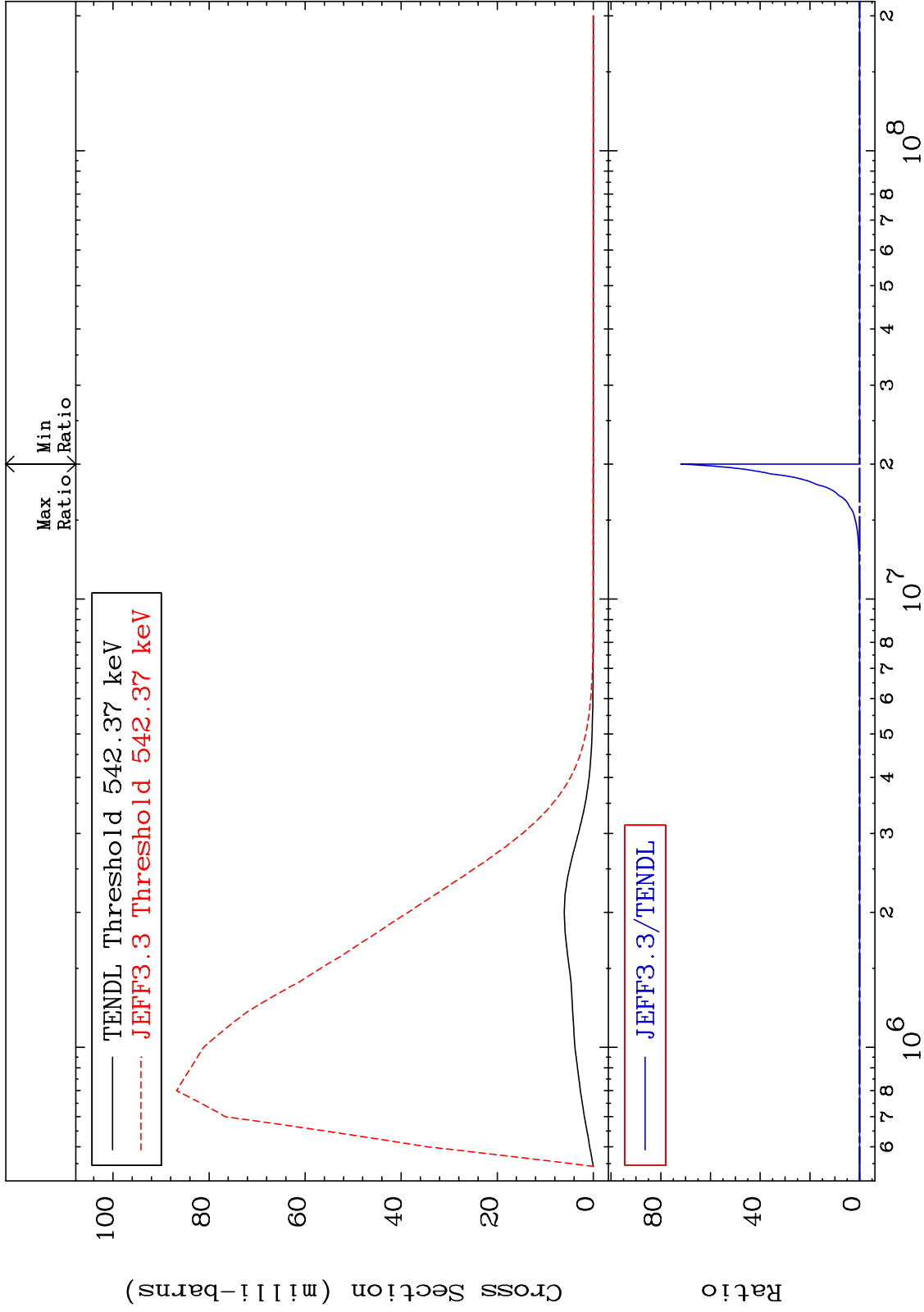
MAT 4325 MT= 55 (n,n') Level Cross Section -100.0 To 9999. % 43-Tc-99



MAT 4325

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

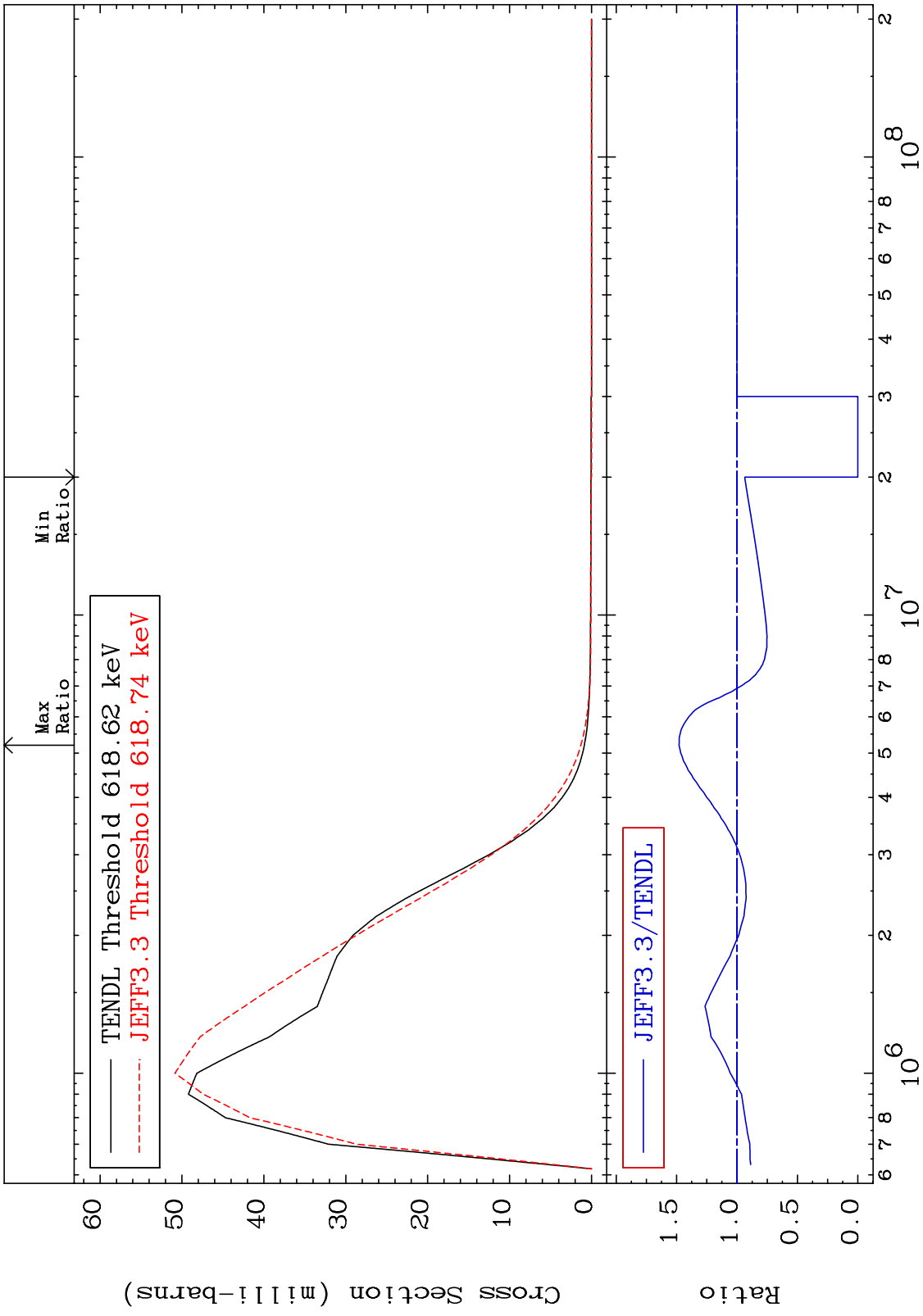
43-Tc-99  
-100.0 To 9999. %



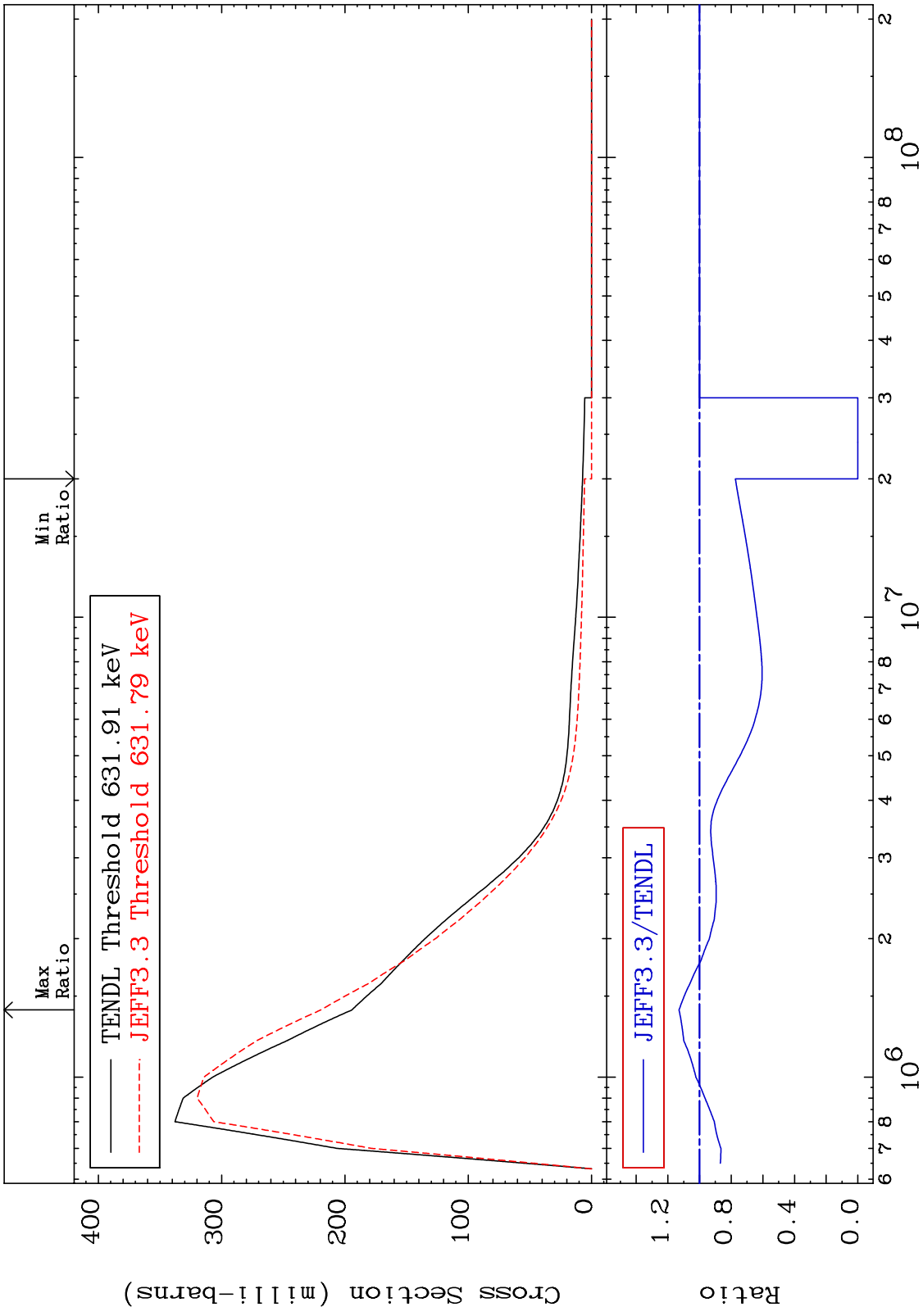
18

43-Tc-99

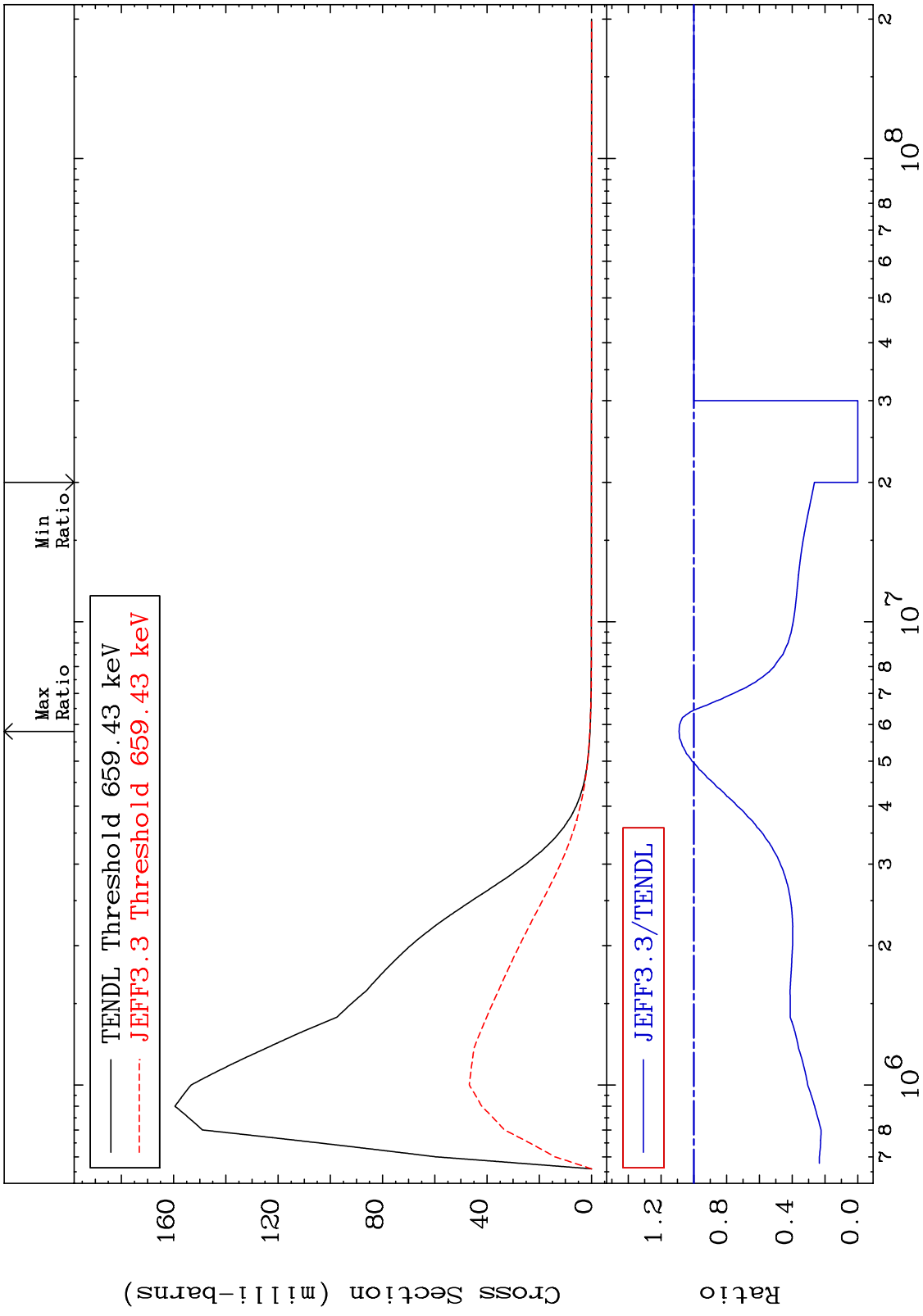
MAT 4325 MT= 57 (n,n') Level Cross Section -100.0 To 47.97 % 43-Tc-99



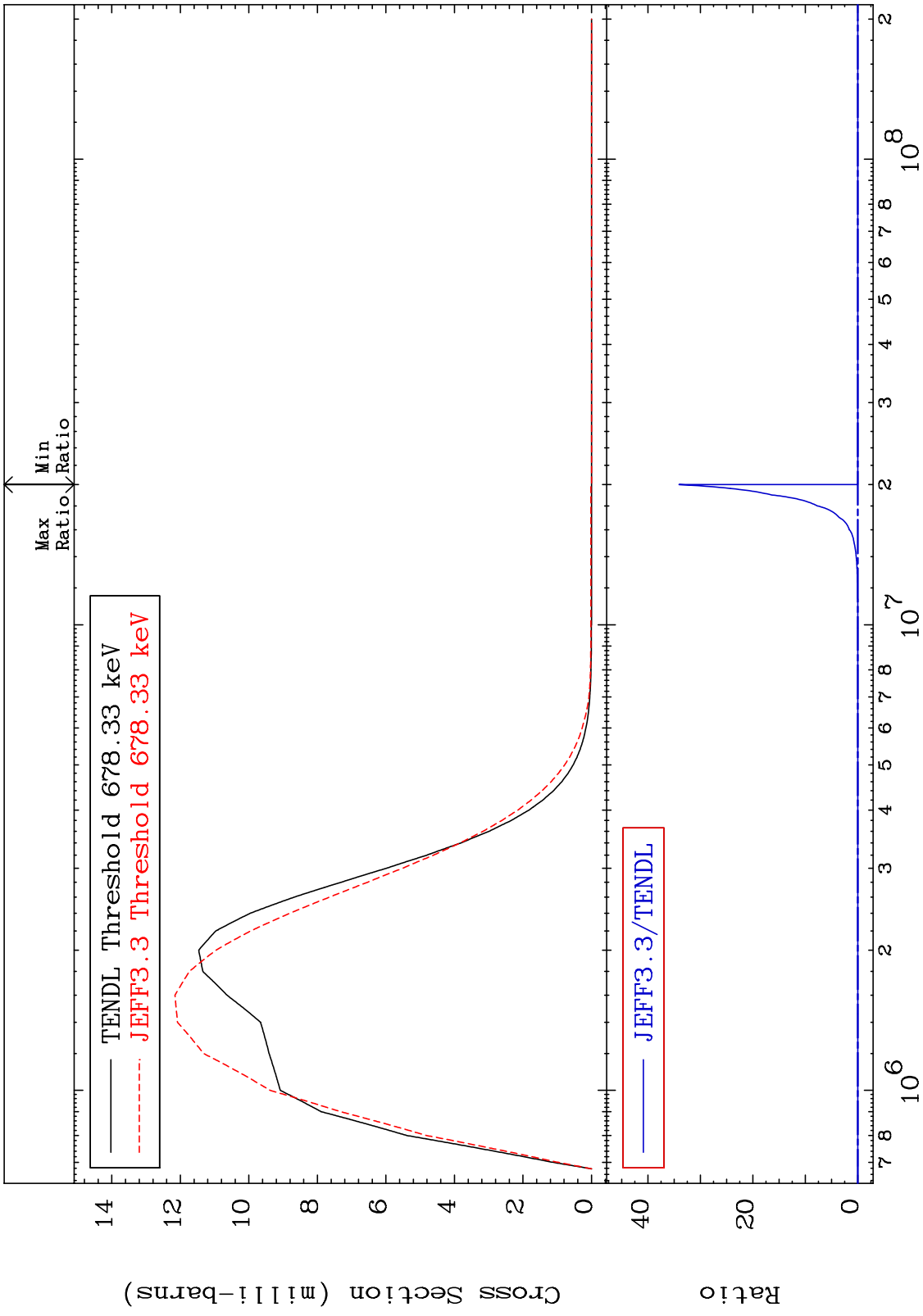
MAT 4325 MT= 58 (n,n') Level Cross Section -100.0 To 12.94 % 43-Tc-99



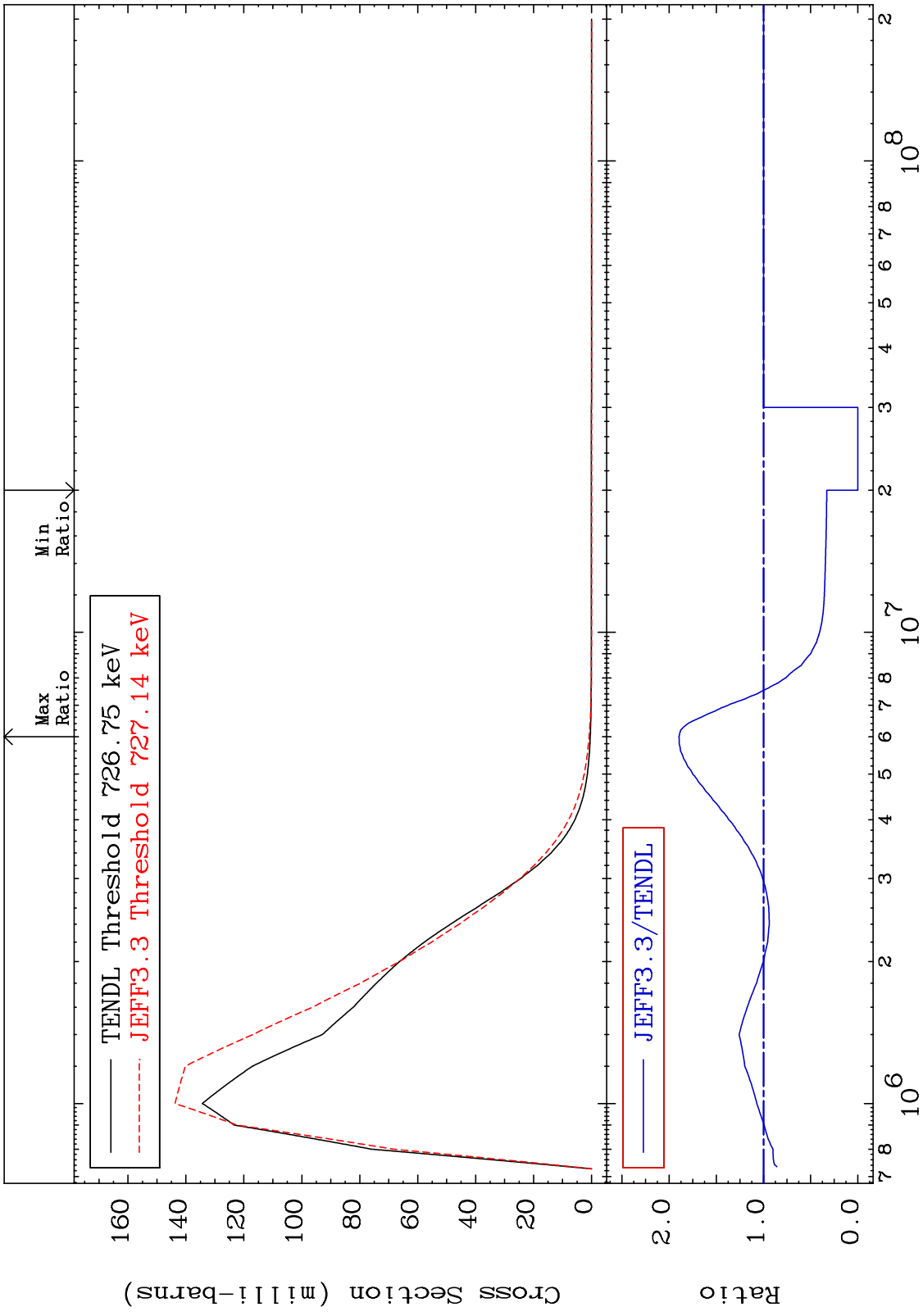
MAT 4325 MT= 59 (n,n') Level Cross Section -100.0 To 9.021 % 43-Tc-99



MAT 4325 MT= 60 (n,n') Level Cross Section -100.0 To 9999. % 43-Tc-99

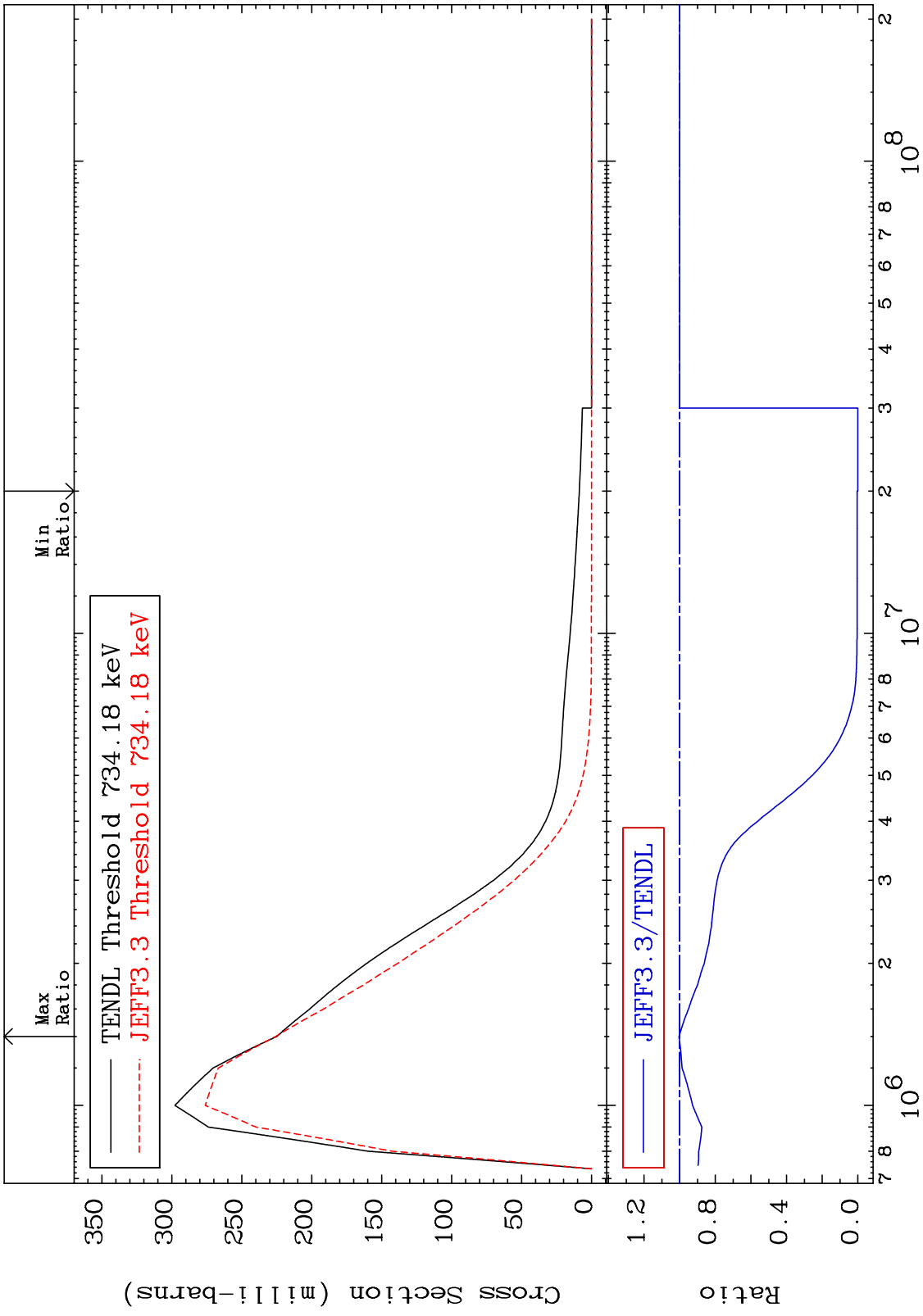


MAT 4325 MT= 61 (n,n') Level Cross Section -100.0 To 89.49 % 43-Tc-99

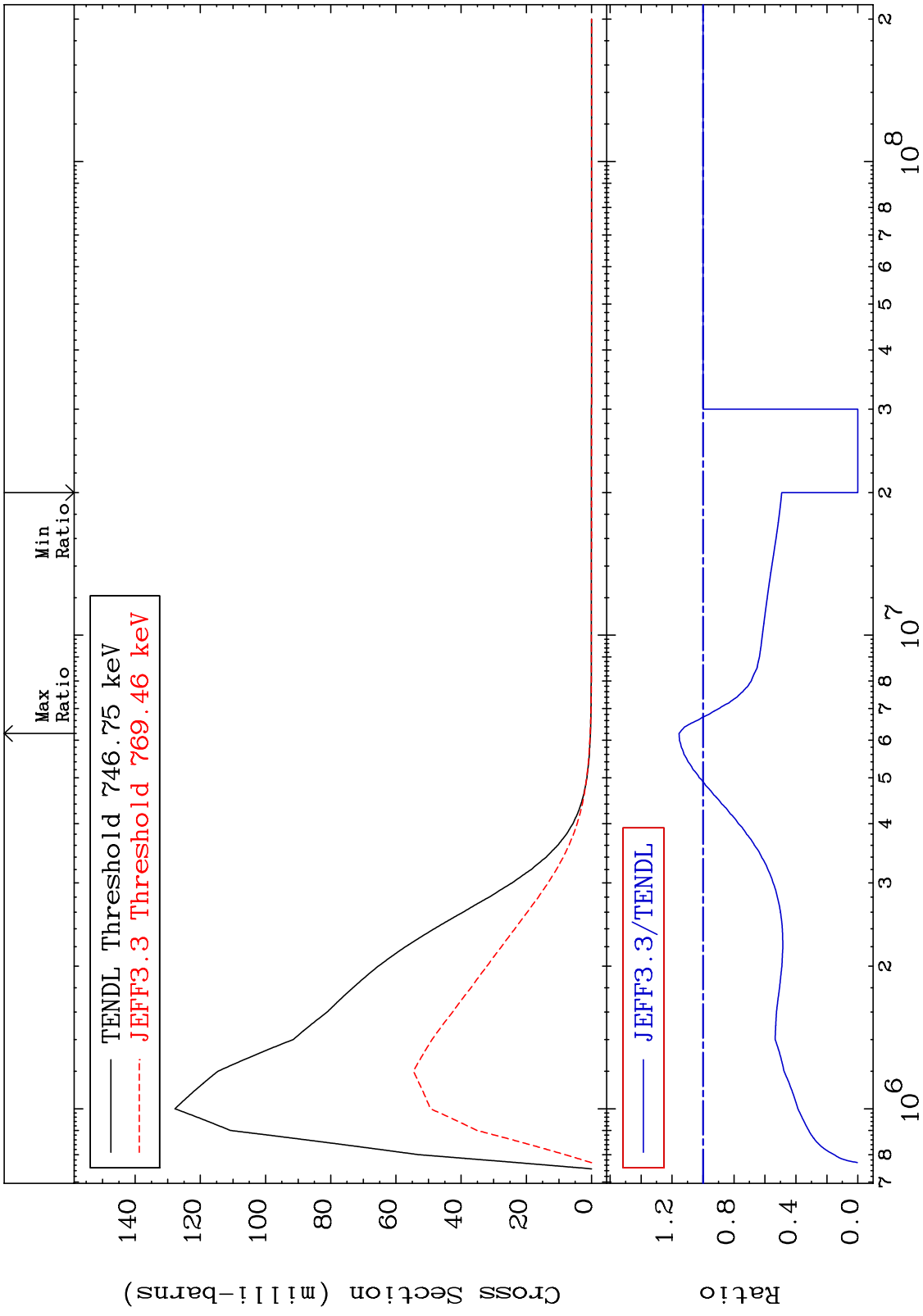




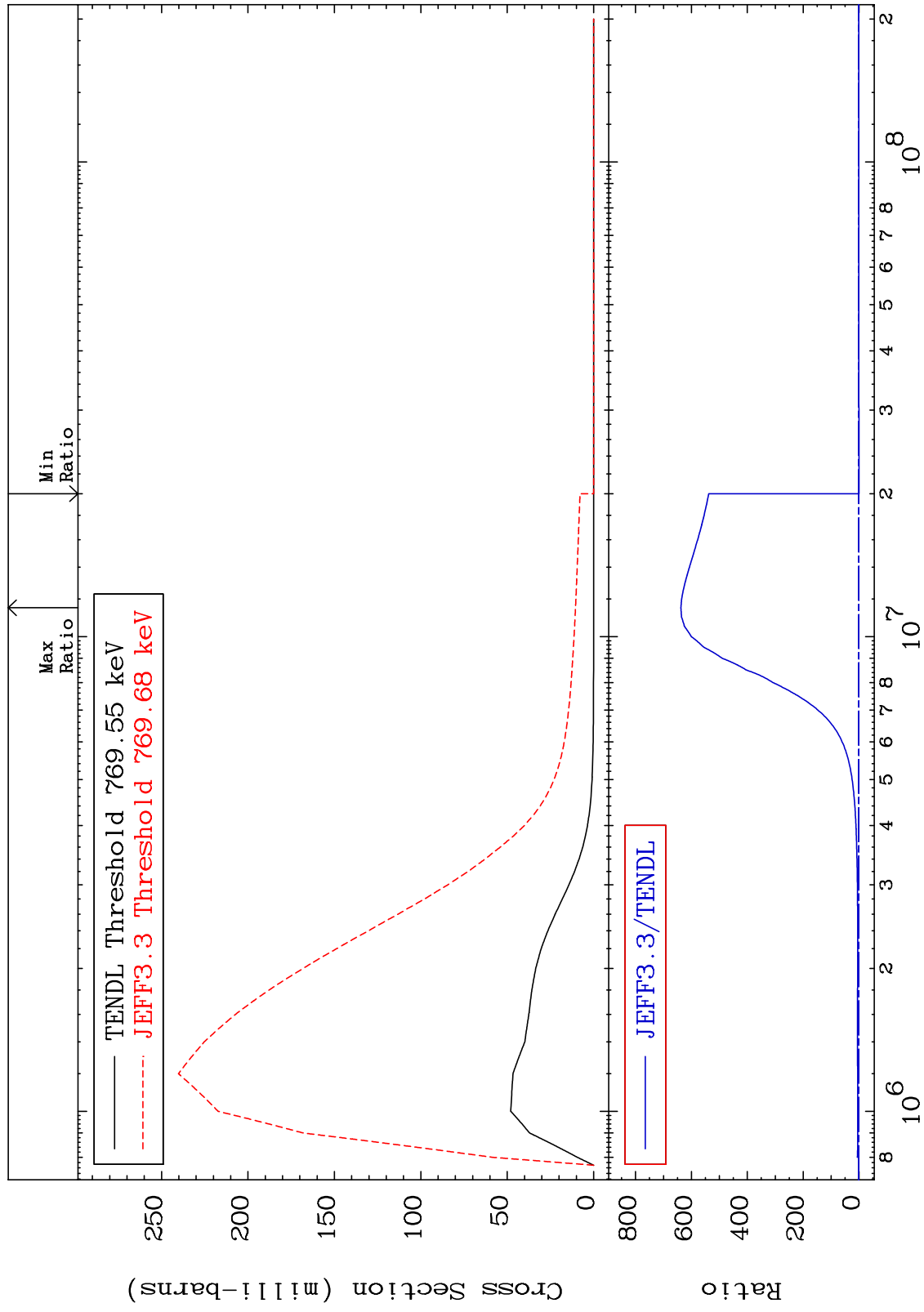
MAT 4325 MT= 62 (n,n') Level Cross Section -100.0 To 0.340 % 43-Tc-99



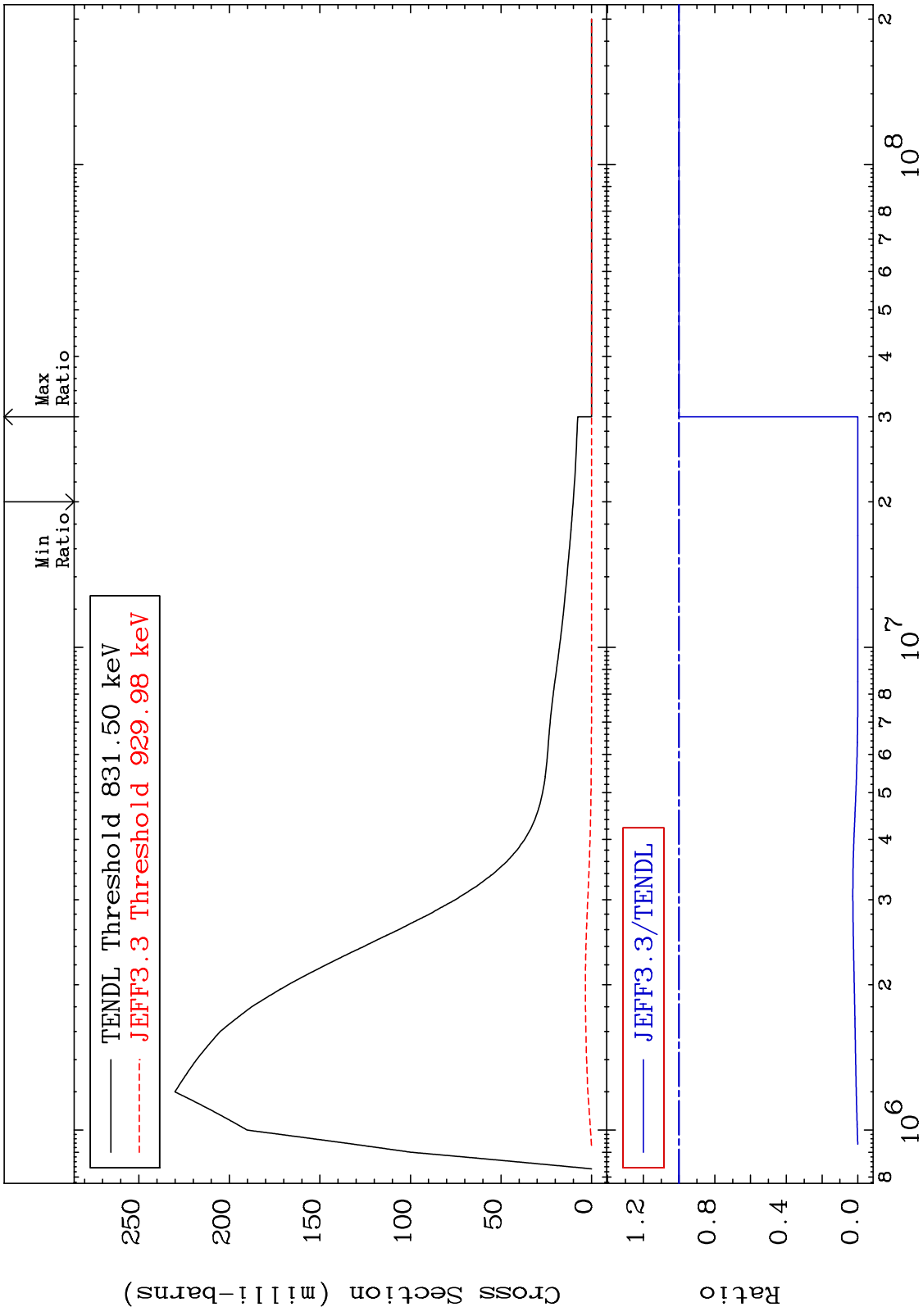
MAT 4325 MT= 63 (n,n') Level Cross Section -100.0 To 15.47 % 43-Tc-99



MAT 4325 MT= 64 (n,n') Level 43-Tc-99  
Cross Section -100.0 To 9999. %

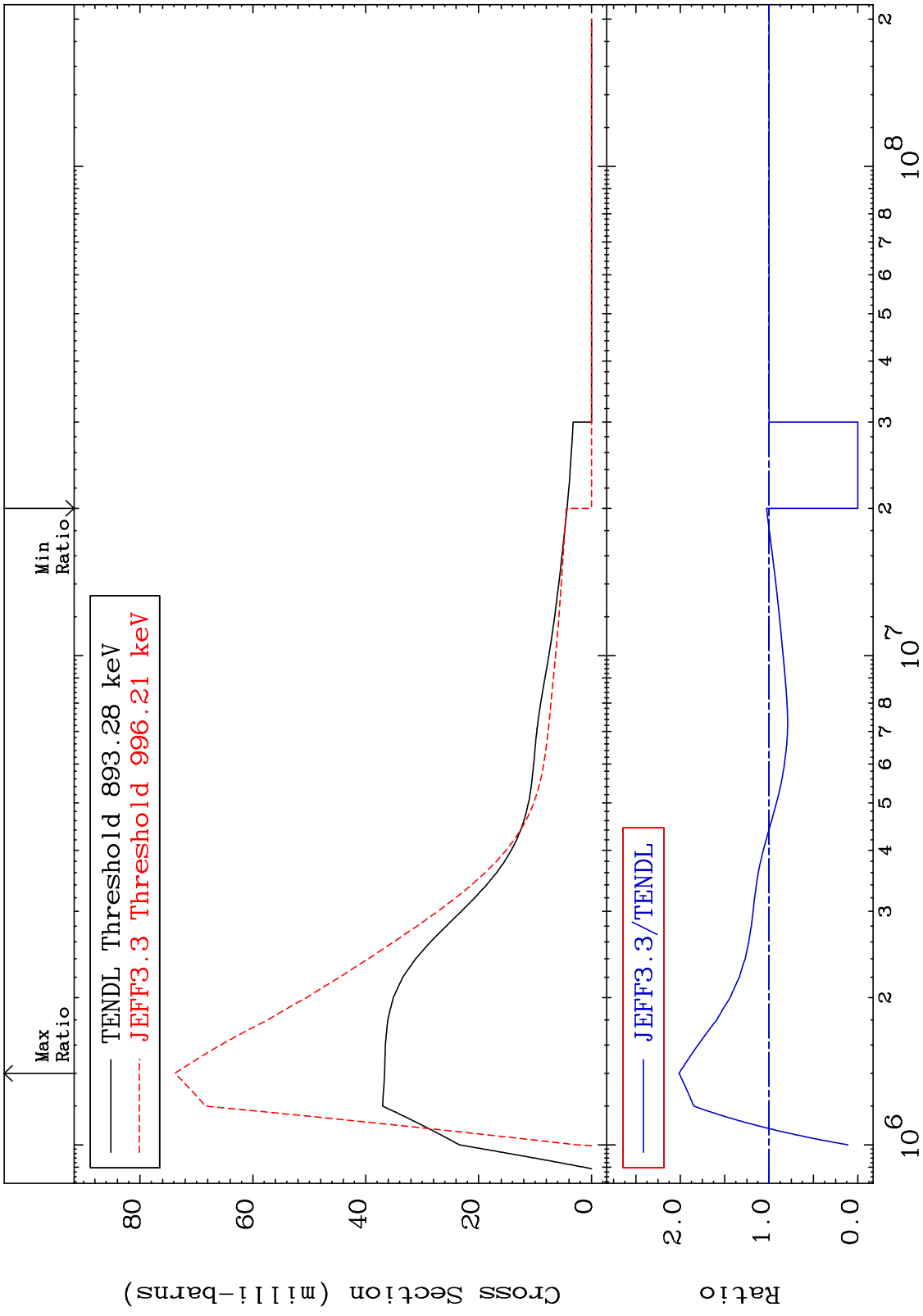


MAT 4325 MT= 65 (n,n') Level Cross Section 43-Tc-99  
 -100.0 To 0.000 %



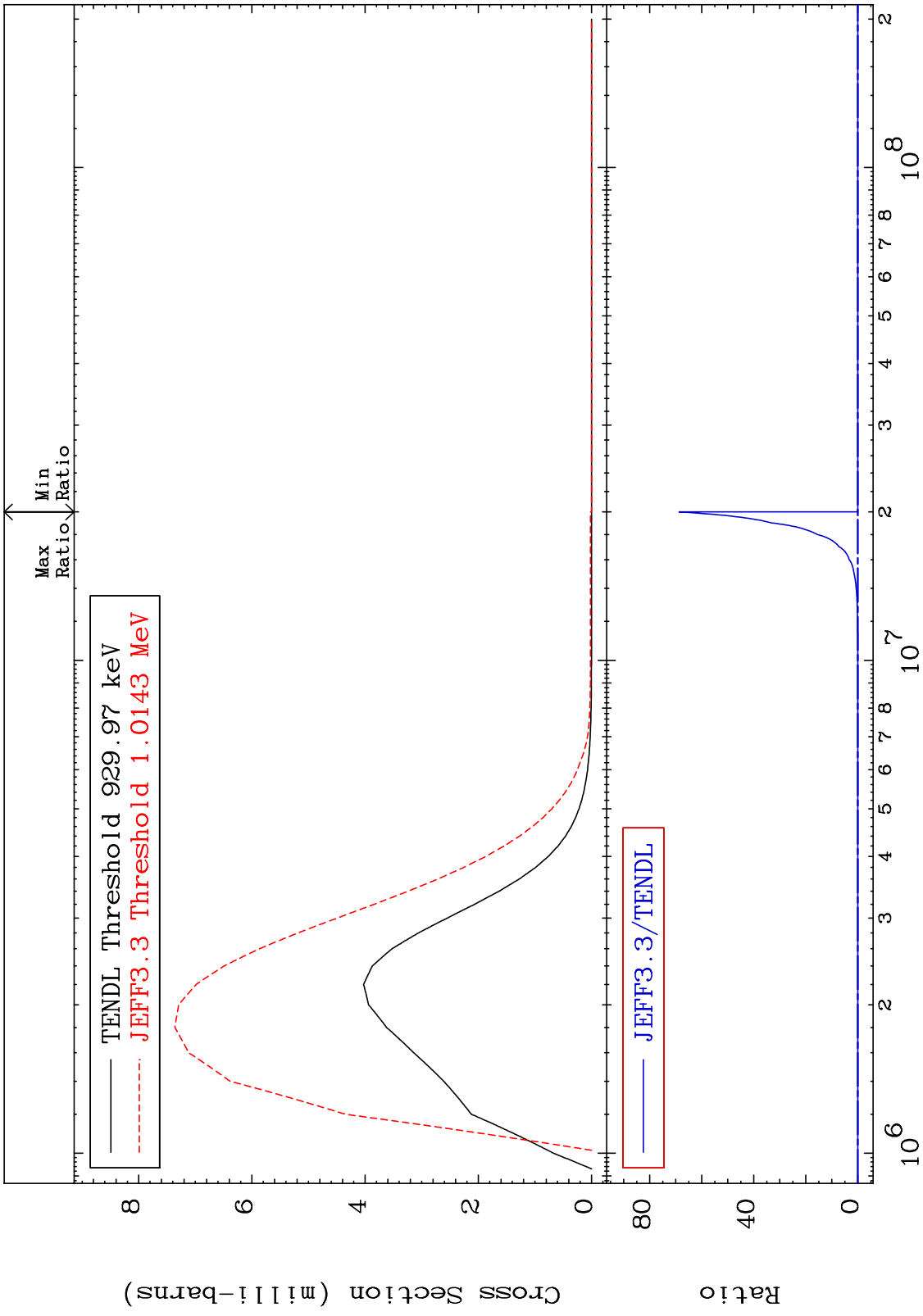
Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 66 (n,n') Level Cross Section -100.0 To 101.4 % 43-Tc-99



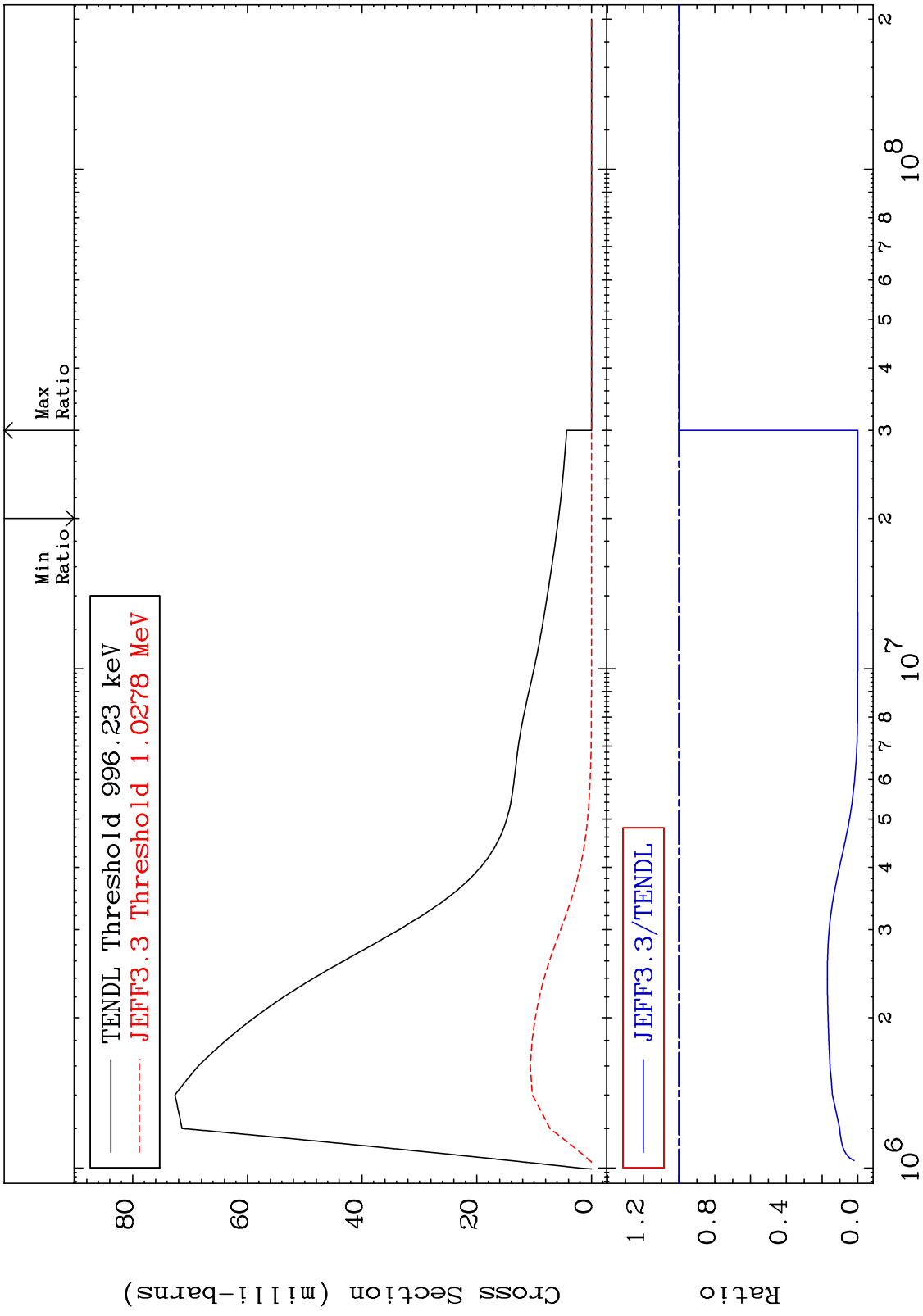
28 Incident Energy (eV) 43-Tc-99

MAT 4325 MT= 67 (n,n') Level Cross Section -100.0 To 9999. % 43-Tc-99



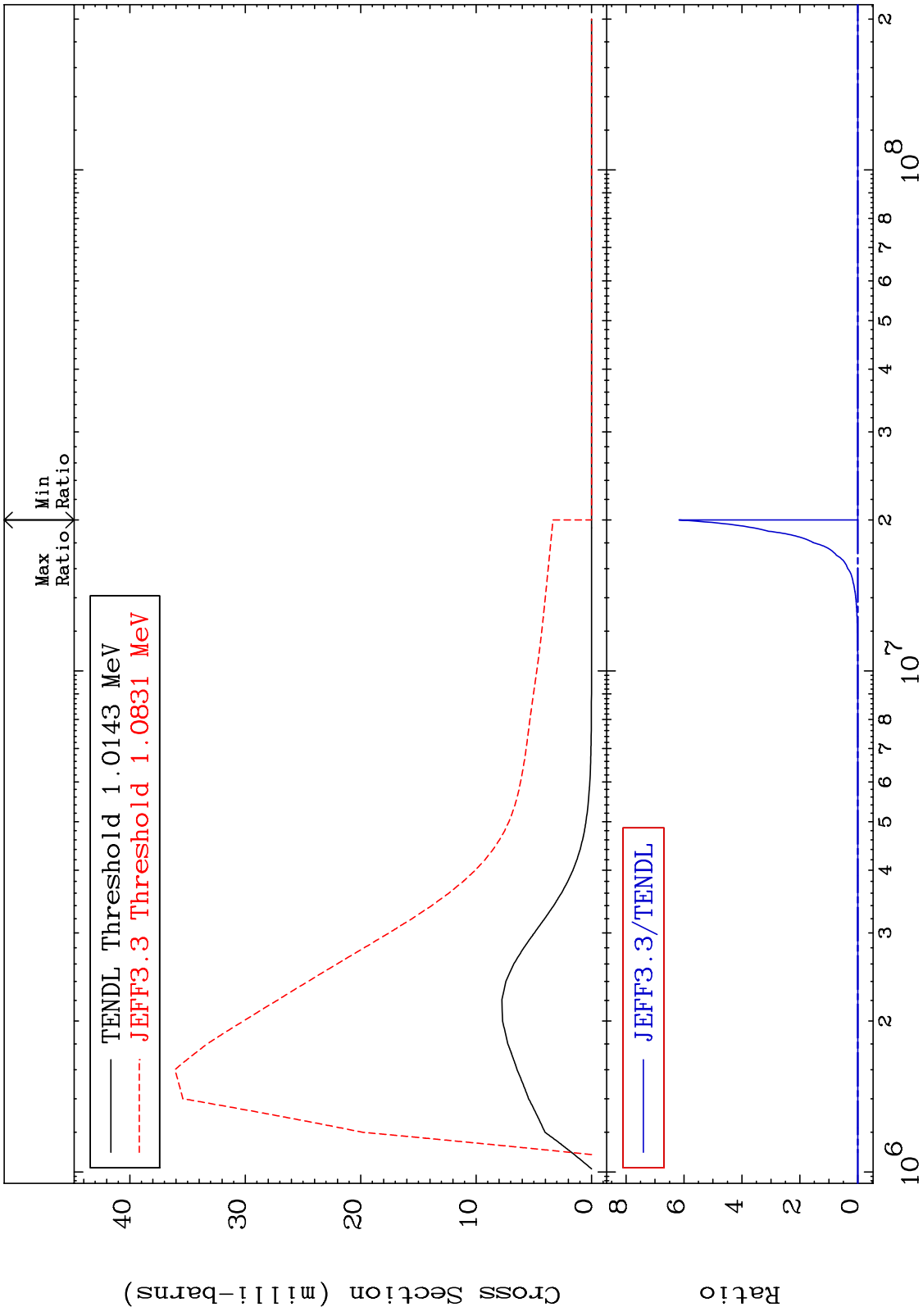
29 43-Tc-99

MAT 4325 MT= 68 (n,n') Level Cross Section -100.0 To 0.000 % 43-Tc-99



30 Incident Energy (eV) 43-Tc-99

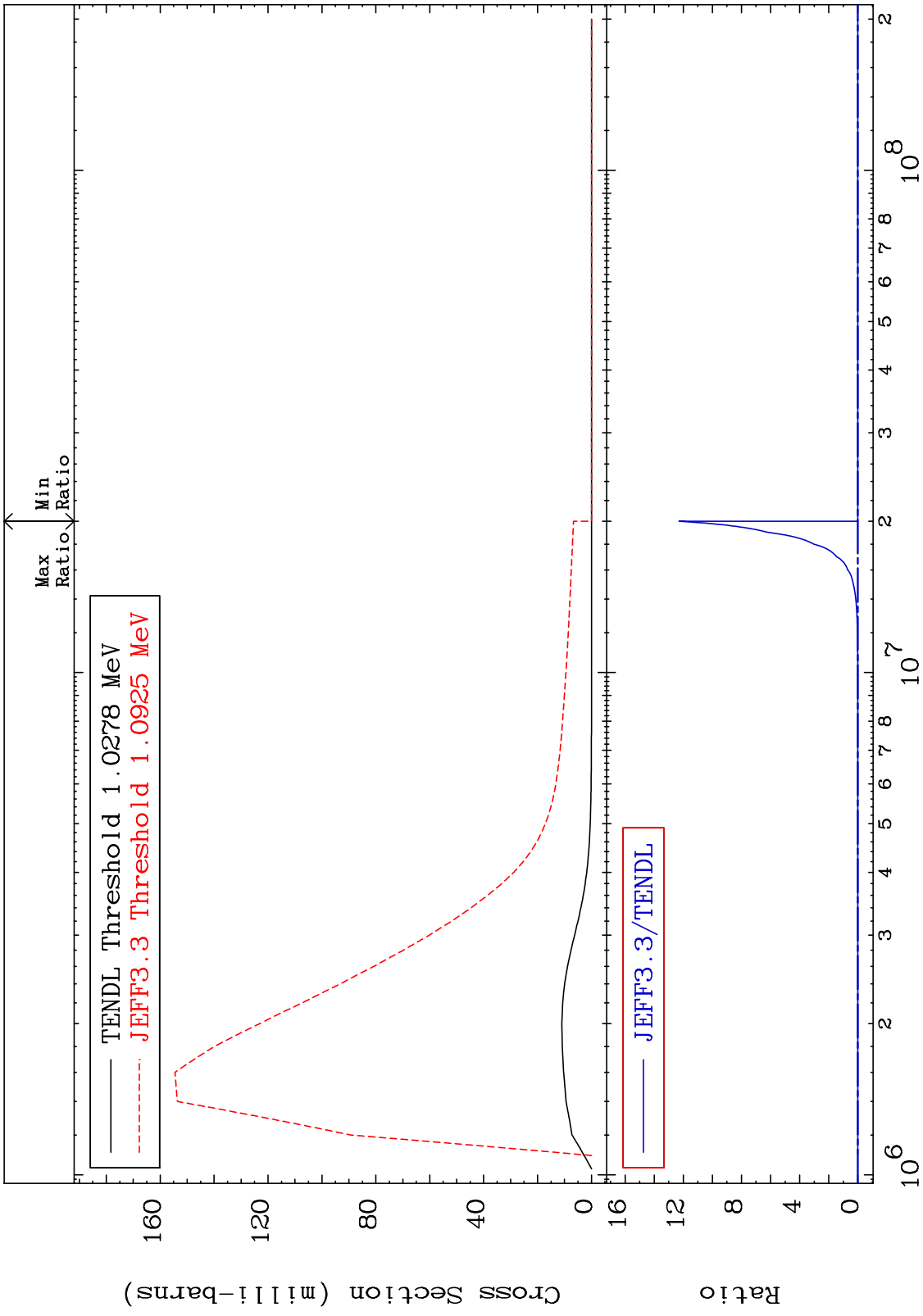
MAT 4325 MT= 69 (n, n') Level Cross Section -100.0 To 9999. % 43-Tc-99



31 Incident Energy (eV) 43-Tc-99

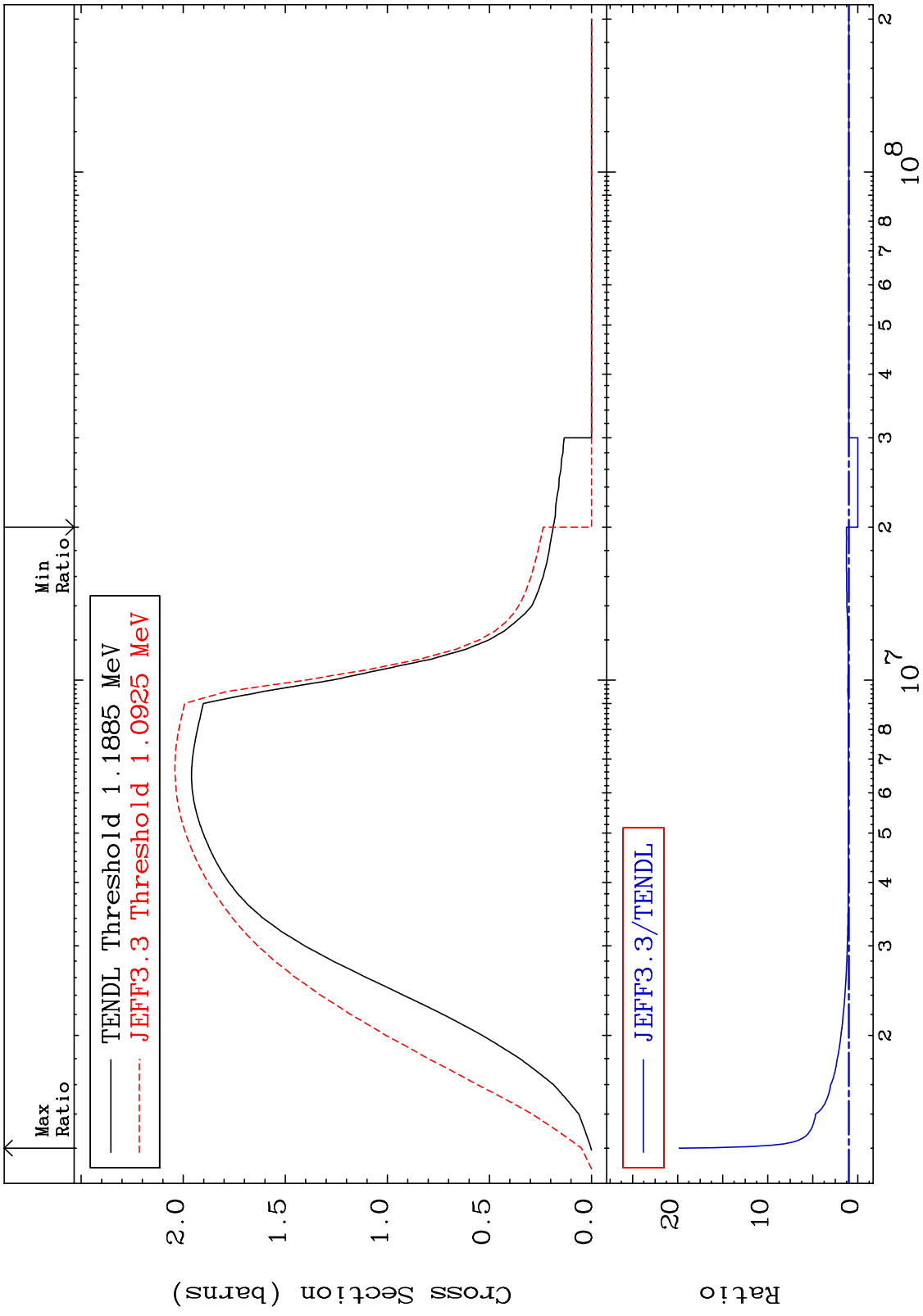


MAT 4325 MT= 70 (n,n') Level Cross Section 43-Tc-99  
 -100.0 To 9999. %



32 43-Tc-99

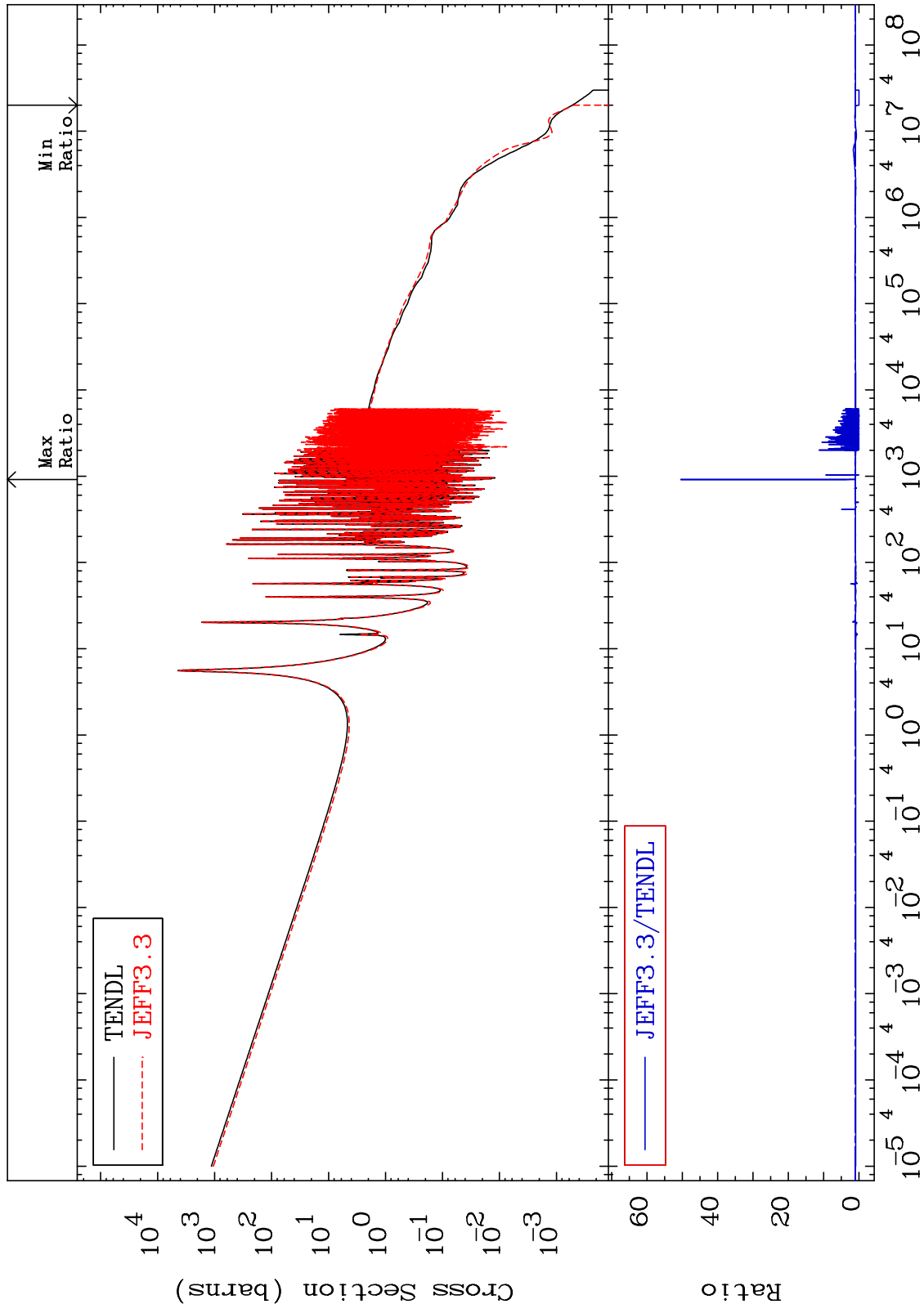
MAT 4325 (n,n') Continuum Cross Section -100.0 To 1885. % 43-Tc-99



MAT 4325

43-Tc-99

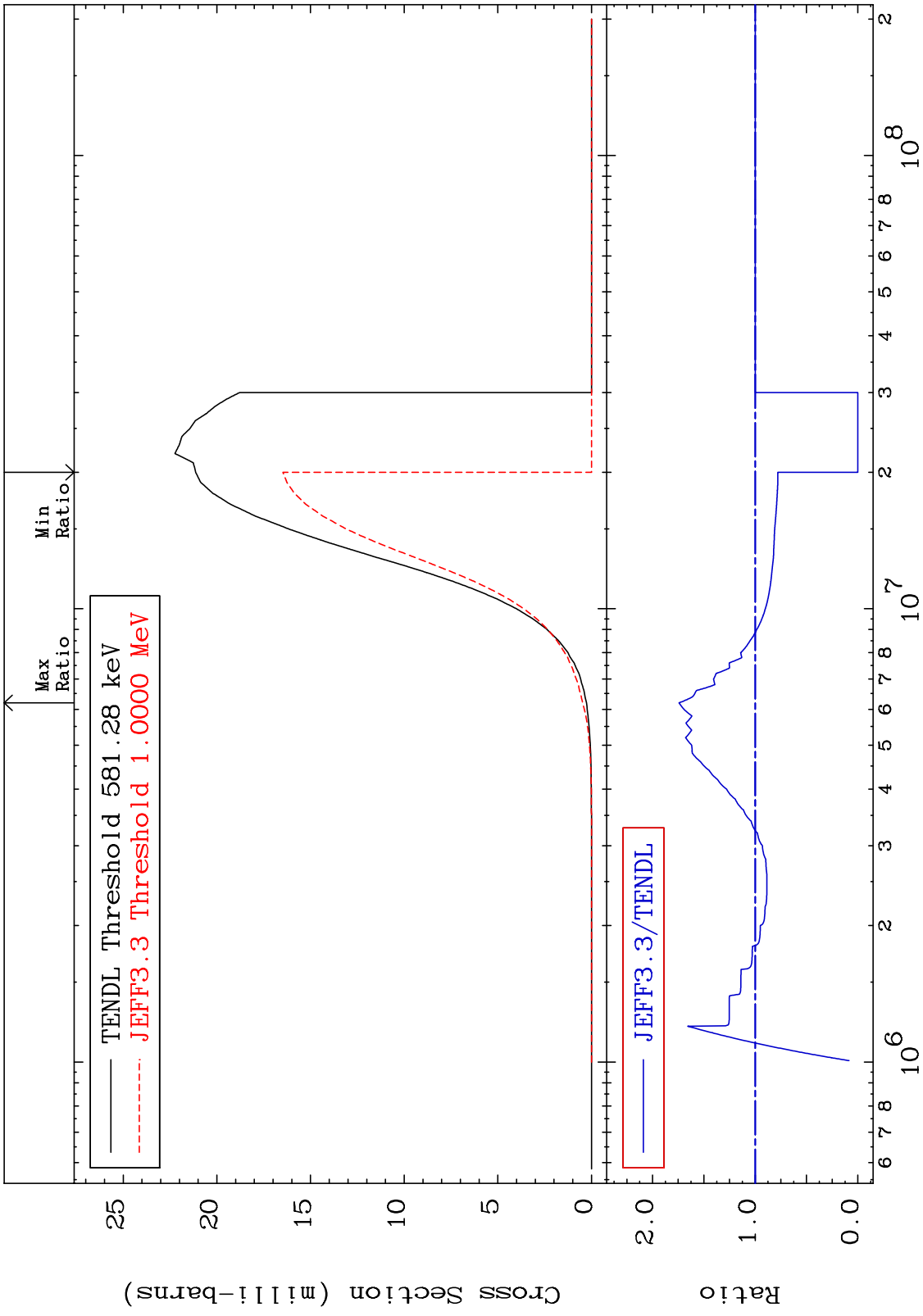
(n,  $\gamma$ )  
Cross Section  
-100.0 To 4946. %



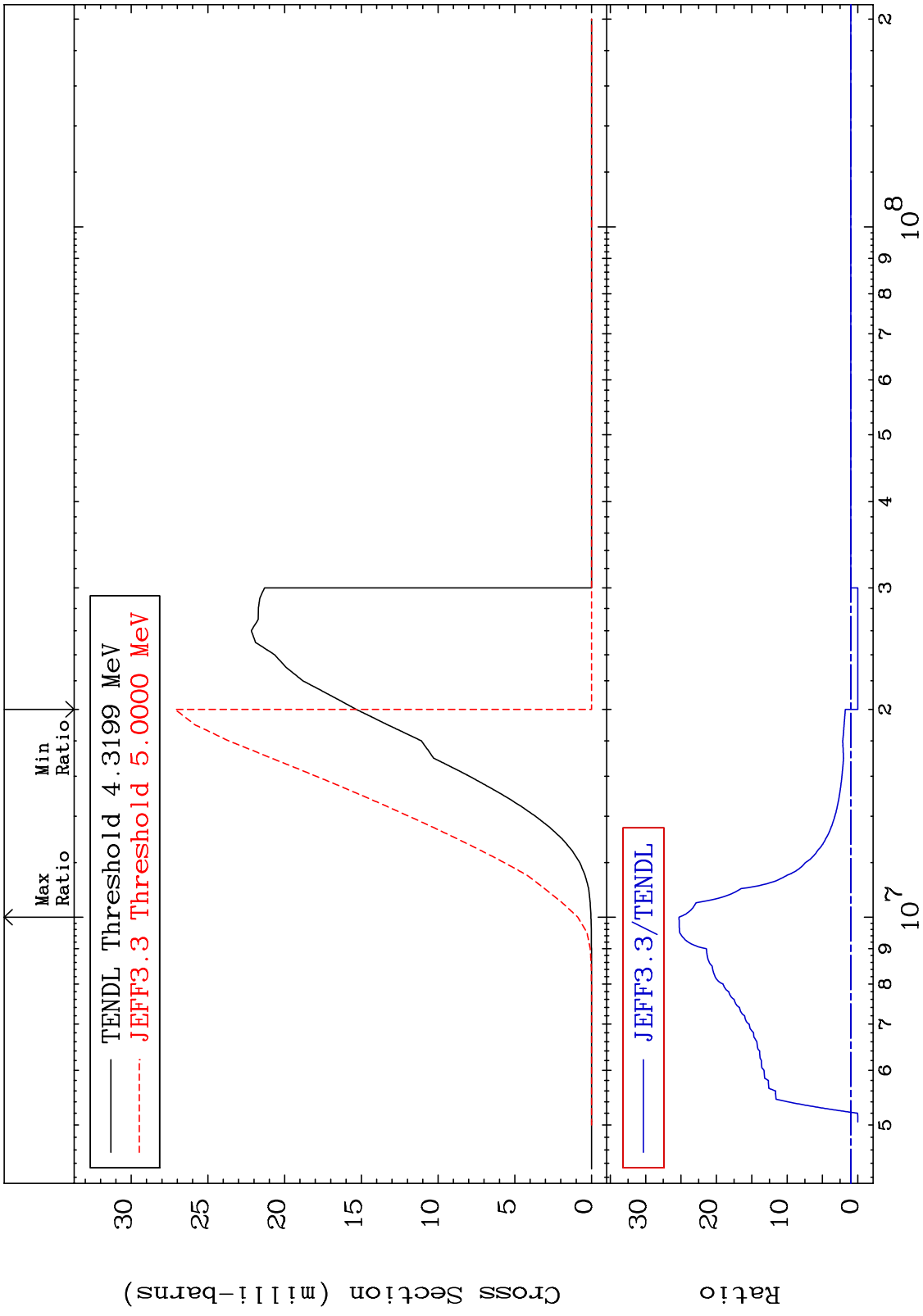
34

43-Tc-99

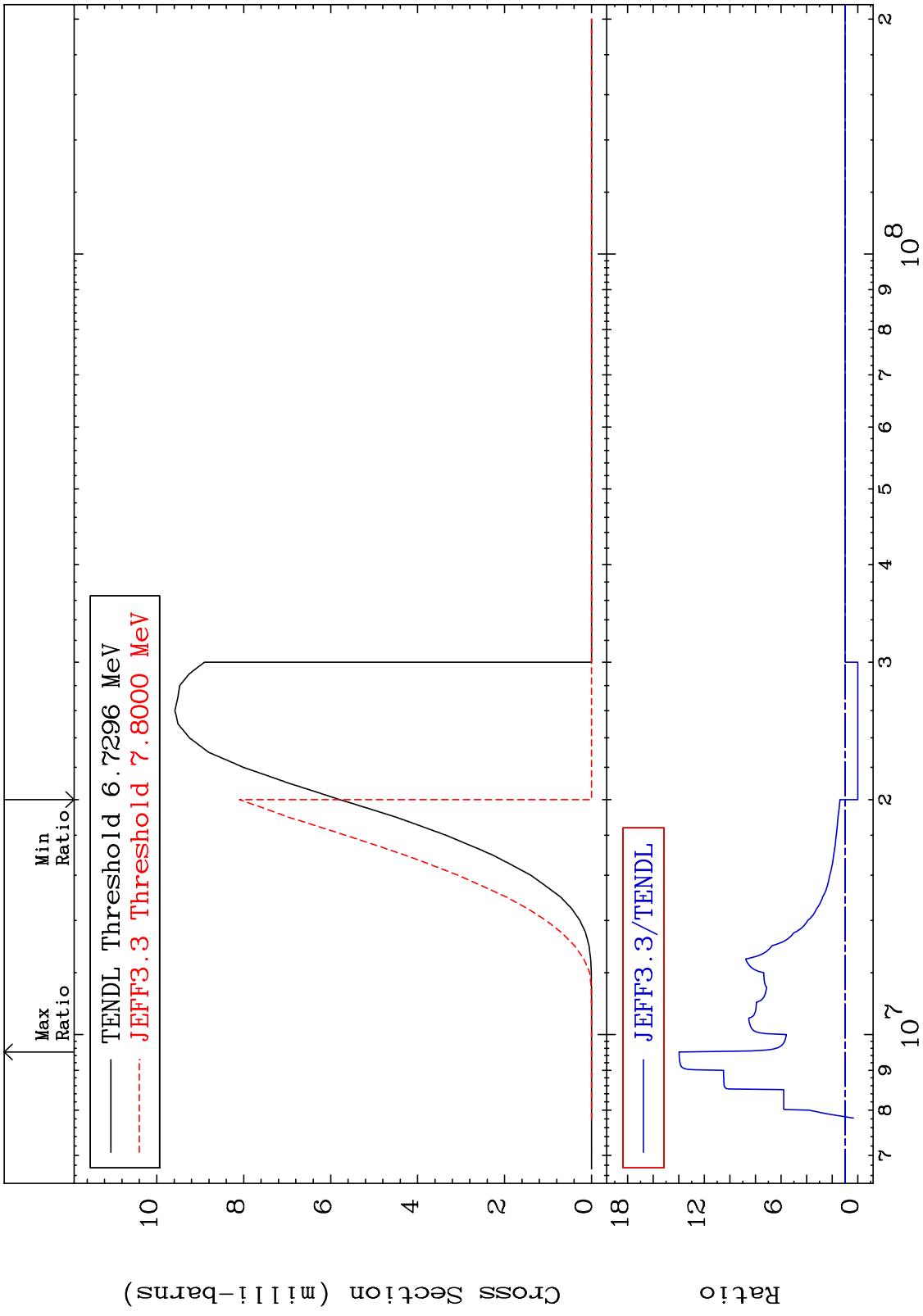
MAT 4325 (n,p) Cross Section -100.0 To 74.17 % 43-Tc-99

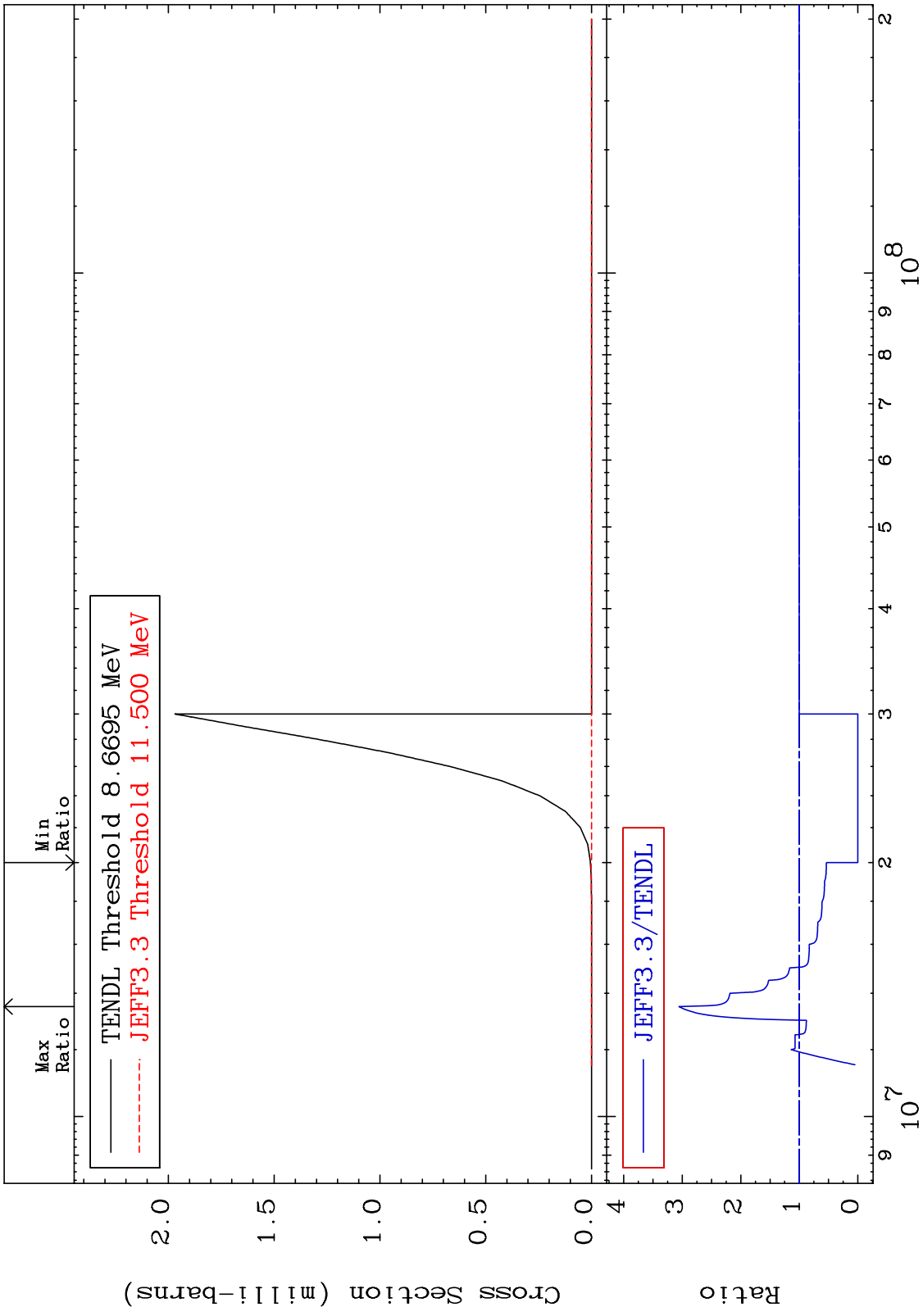


MAT 4325 (n,d) Cross Section 43-Tc-99 -100.0 To 2428. %

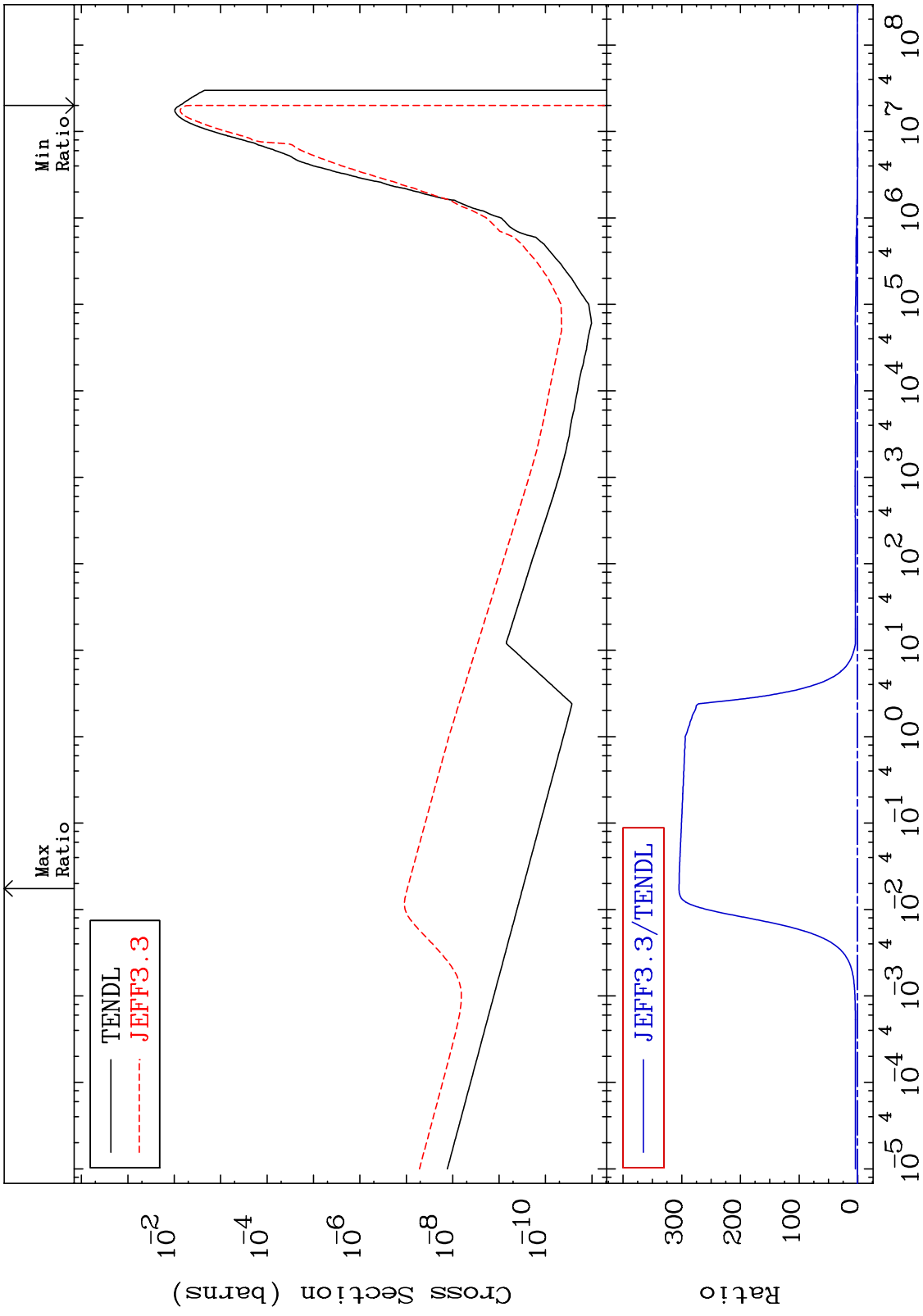


MAT 4325 (n,t) Cross Section 43-Tc-99 -100.0 To 1298. %





MAT 4325 (n,α) Cross Section 43-Tc-99  
 -100.0 To 9999. %





MAT 4325

(n,2α)

Cross Section

43-Tc-99

-100.0 To 452.8 %

Max Ratio

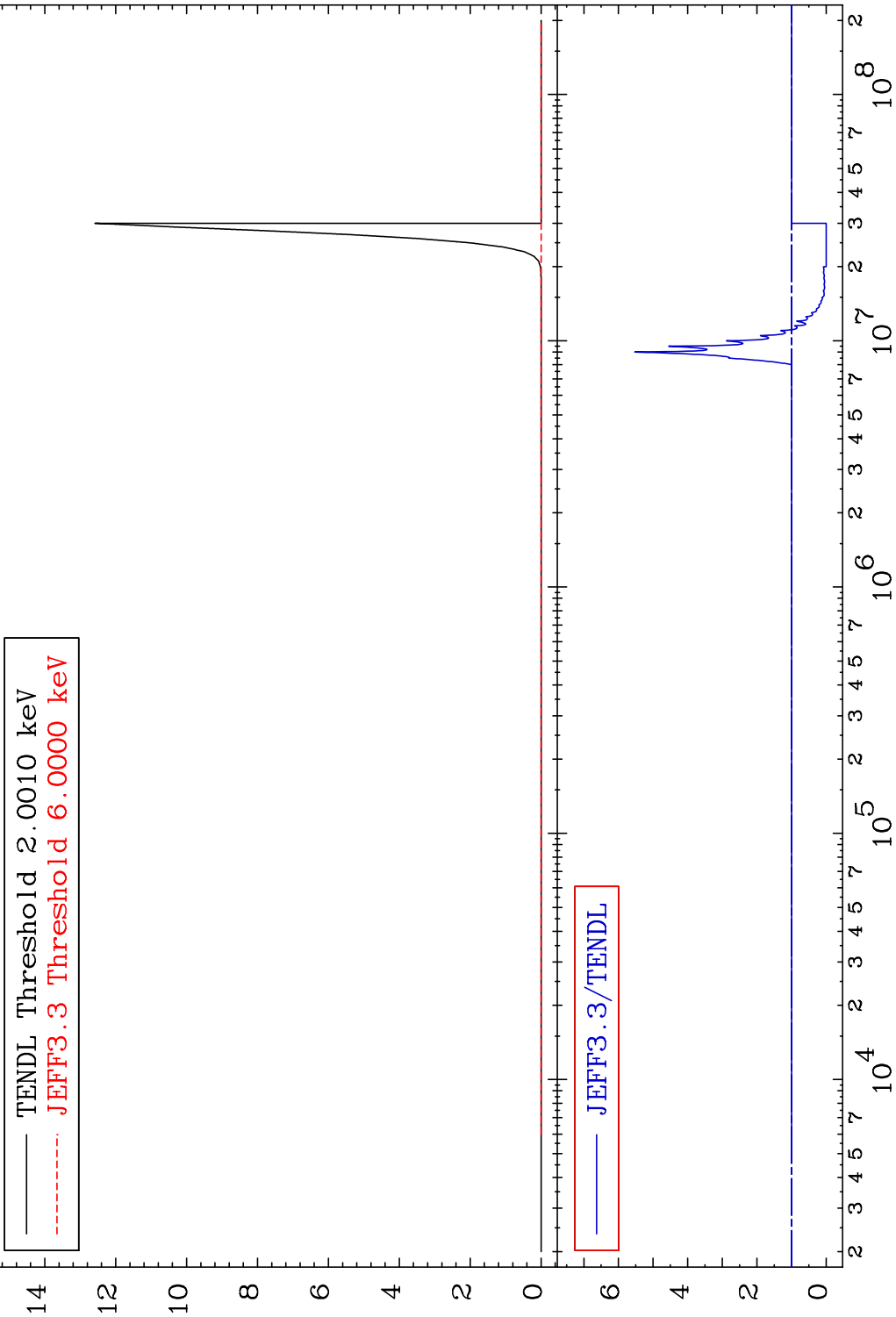
Min Ratio

TENDL Threshold 2.0010 keV  
JEFF3.3 Threshold 6.0000 keV

JEFF3.3/TENDL

Cross Section (micro-barns)

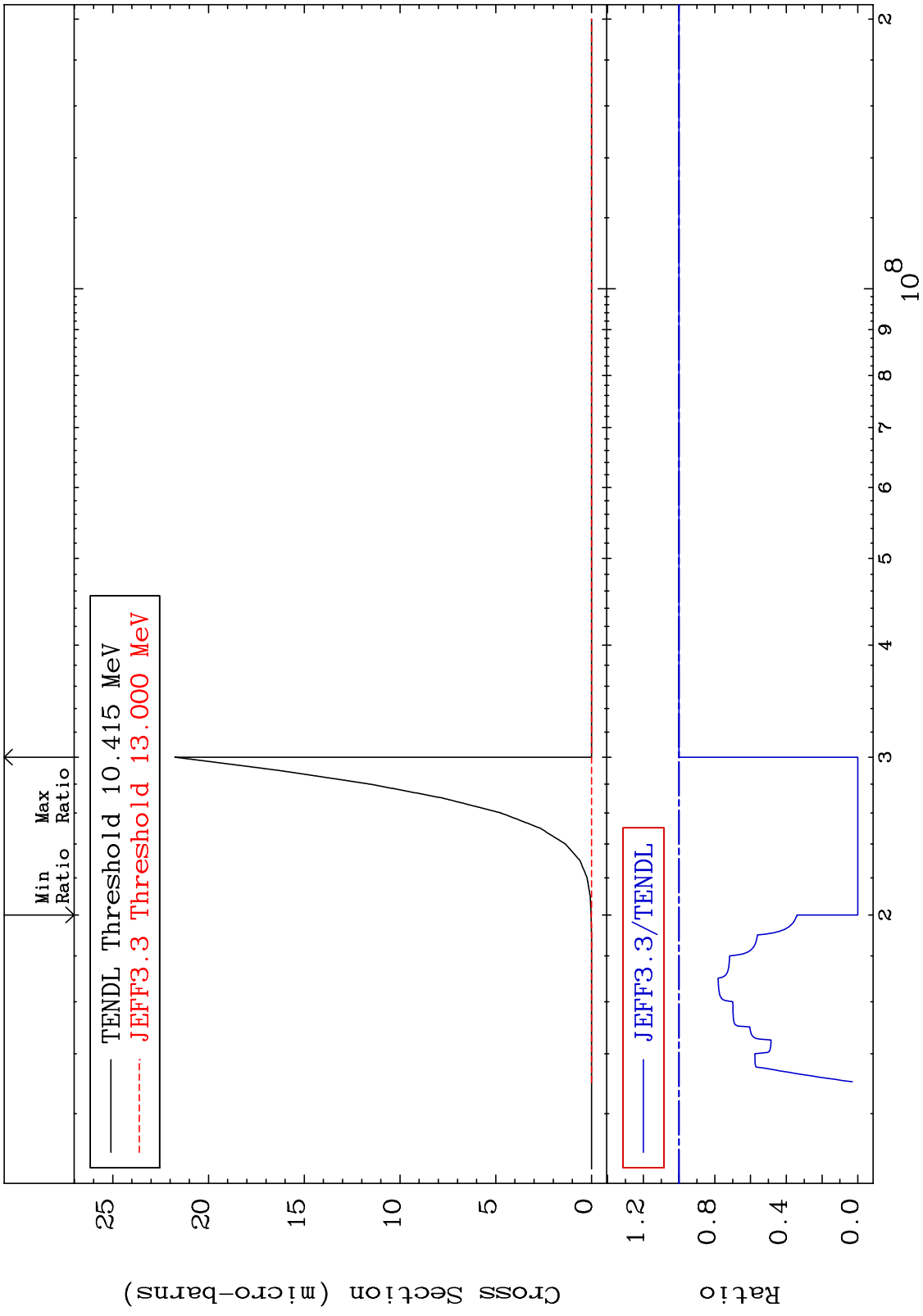
Ratio



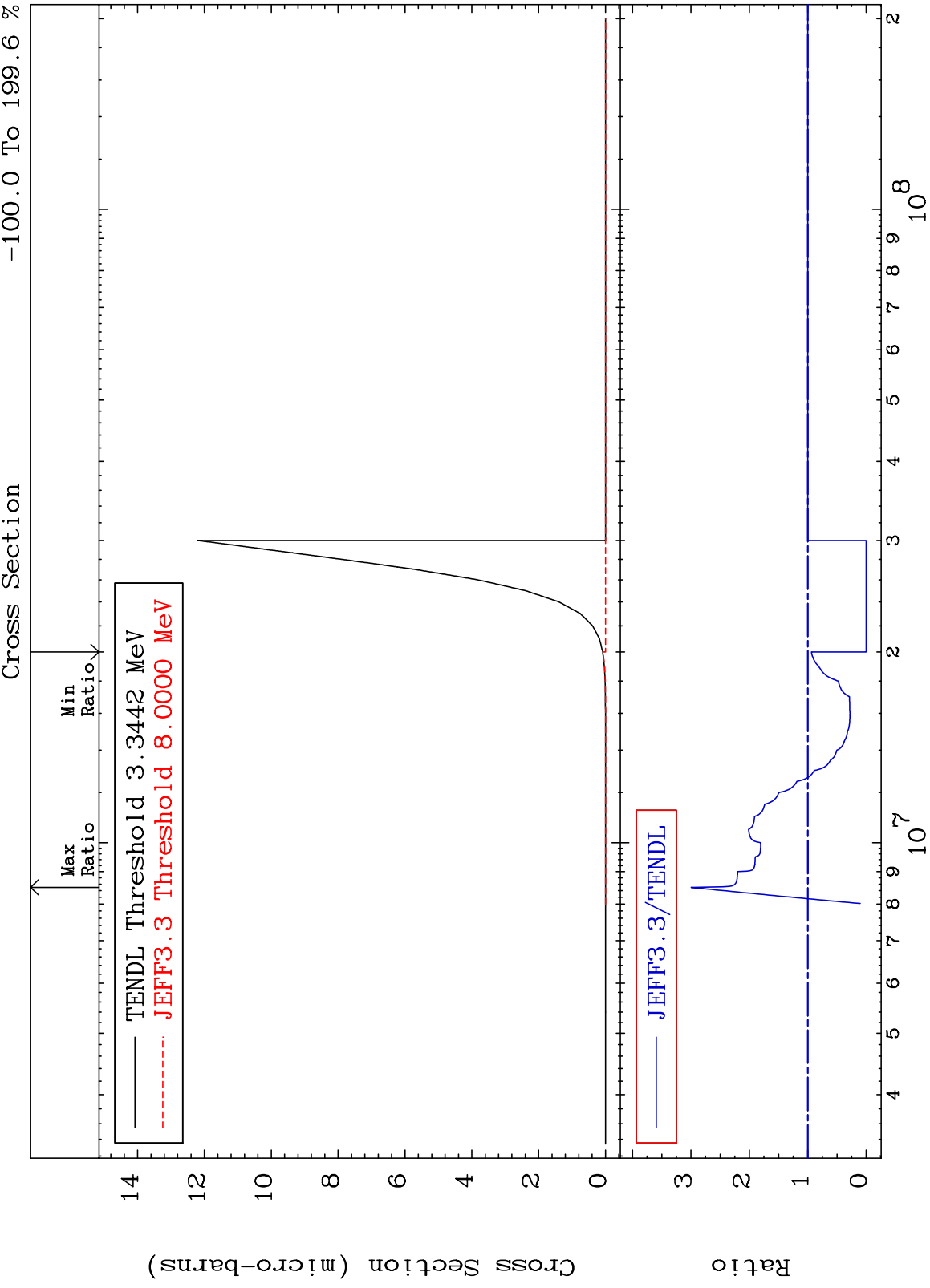
40

Incident Energy (eV)

43-Tc-99



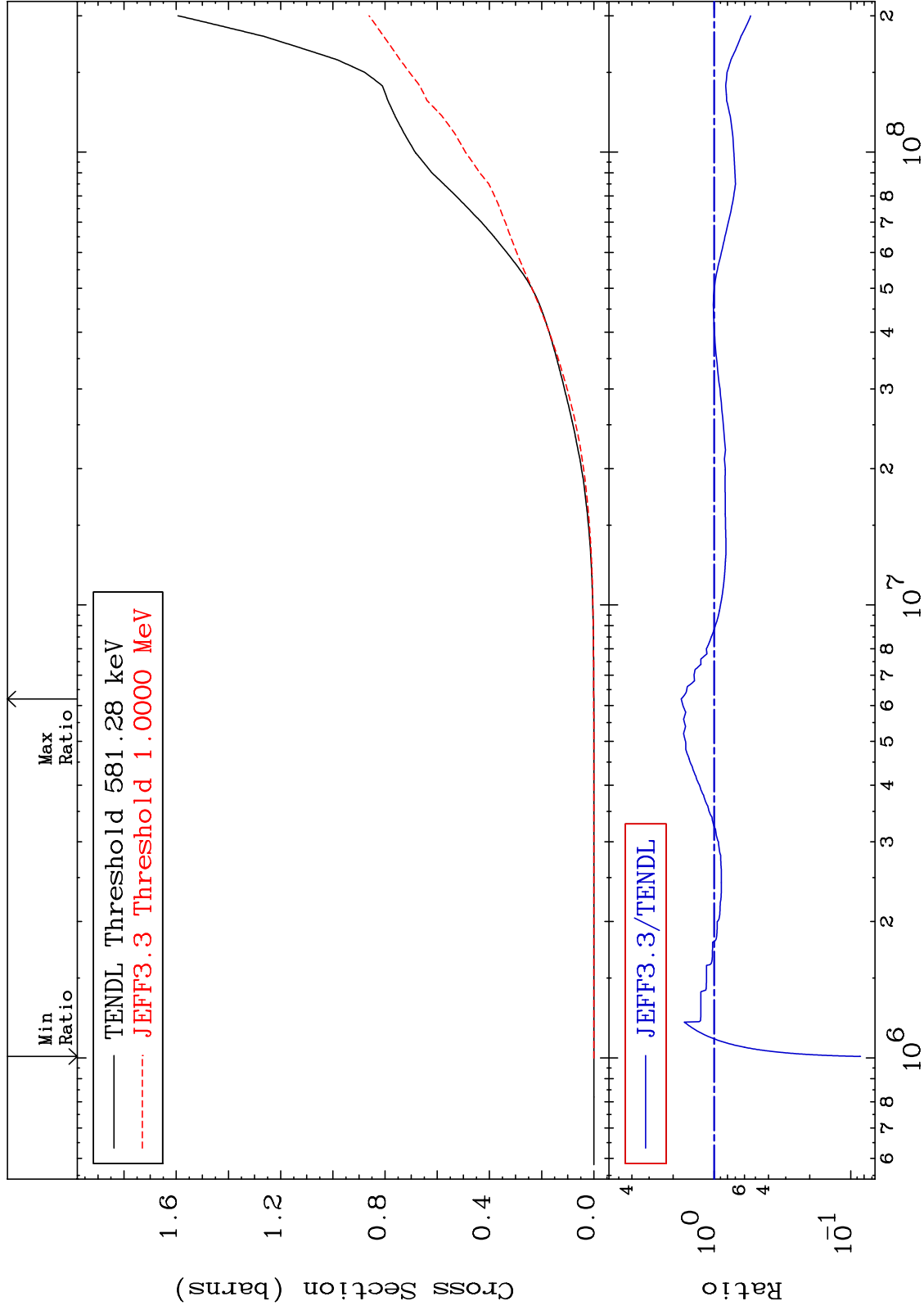
MAT 4325 (n,p)  $\alpha$  43-Tc-99  
 -100.0 To 199.6 %



MAT 4325

Hydrogen Production  
Cross Section

43-Tc-99  
-91.40 To 74.22 %

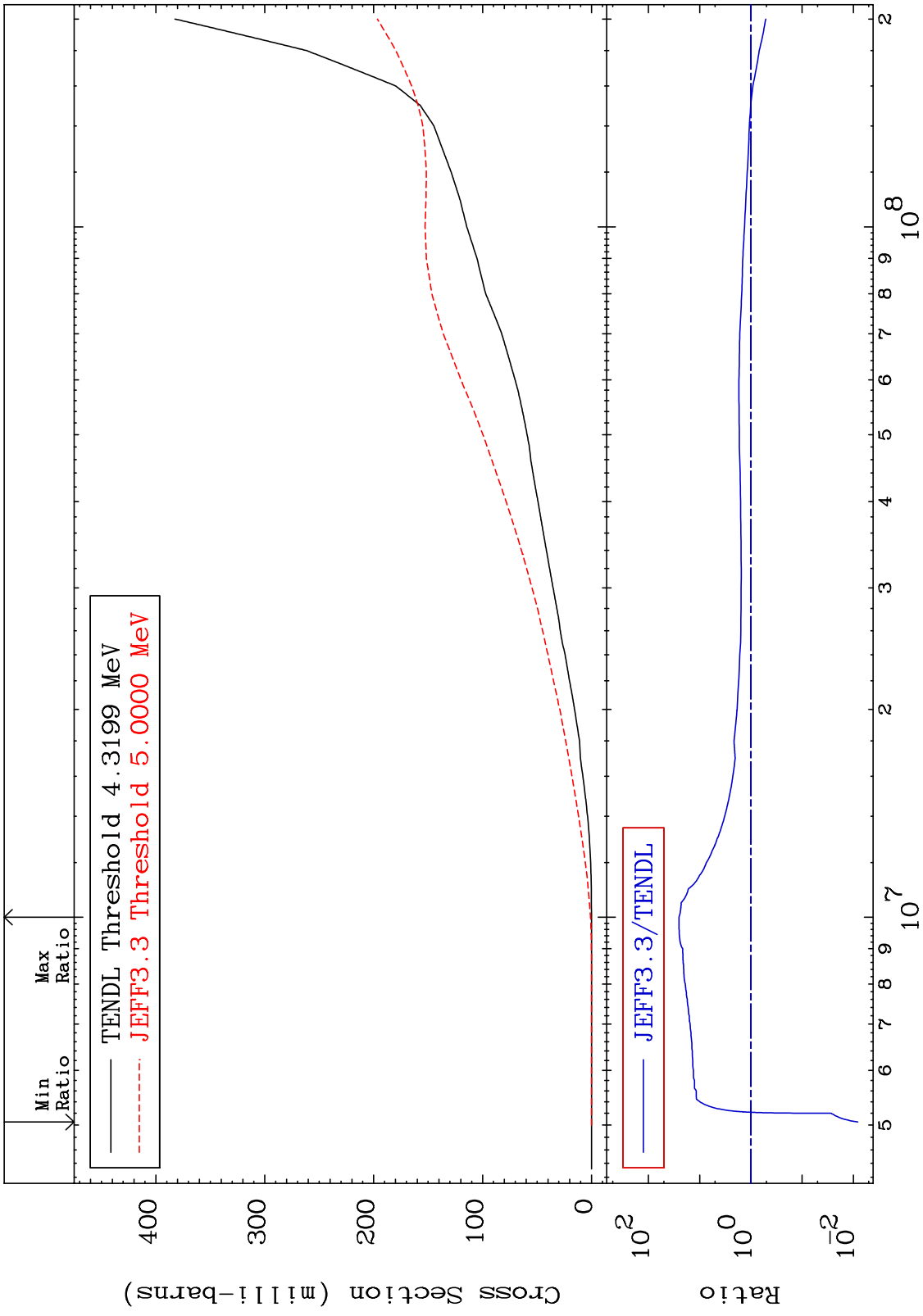


43

Incident Energy (eV)

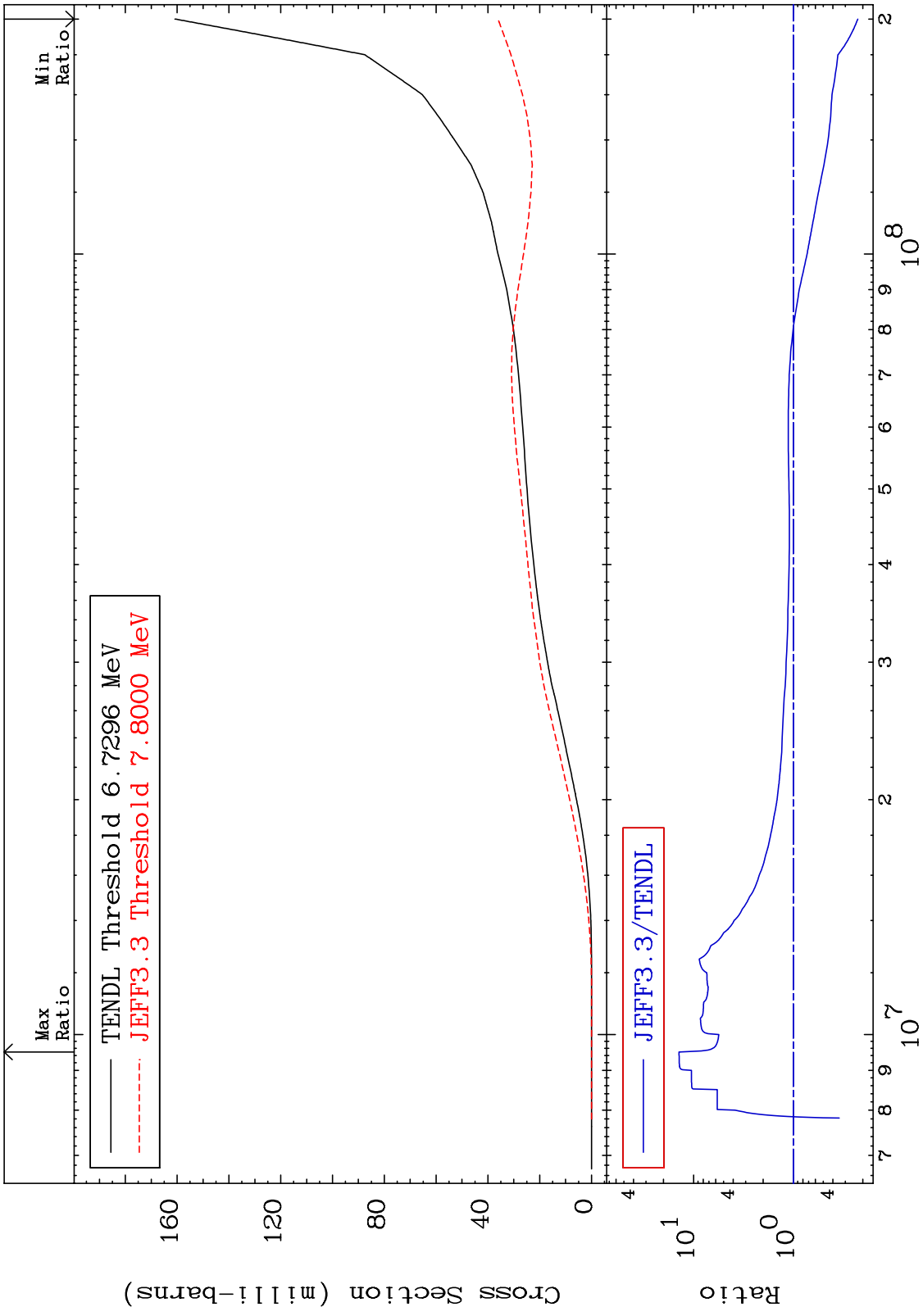
43-Tc-99

MAT 4325 Deuterium Production Cross Section 43-Tc-99 -99.18 To 2428. %



44 43-Tc-99 Incident Energy (eV)

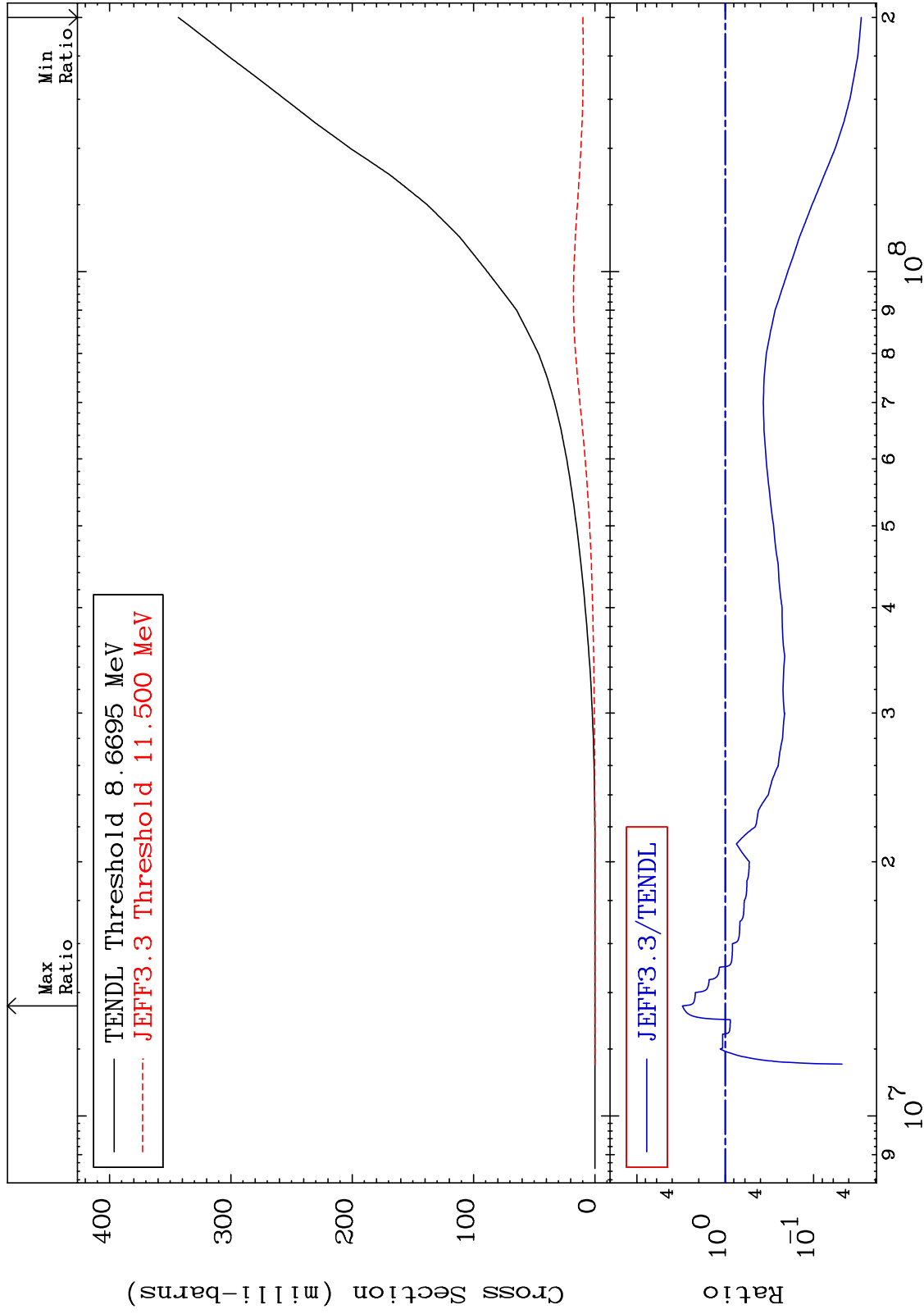
MAT 4325 Tritium Production Cross Section 43-Tc-99  
 -77.54 To 1298. %



MAT 4325

He-3 Production  
Cross Section

43-Tc-99  
-97.11 To 205.4 %

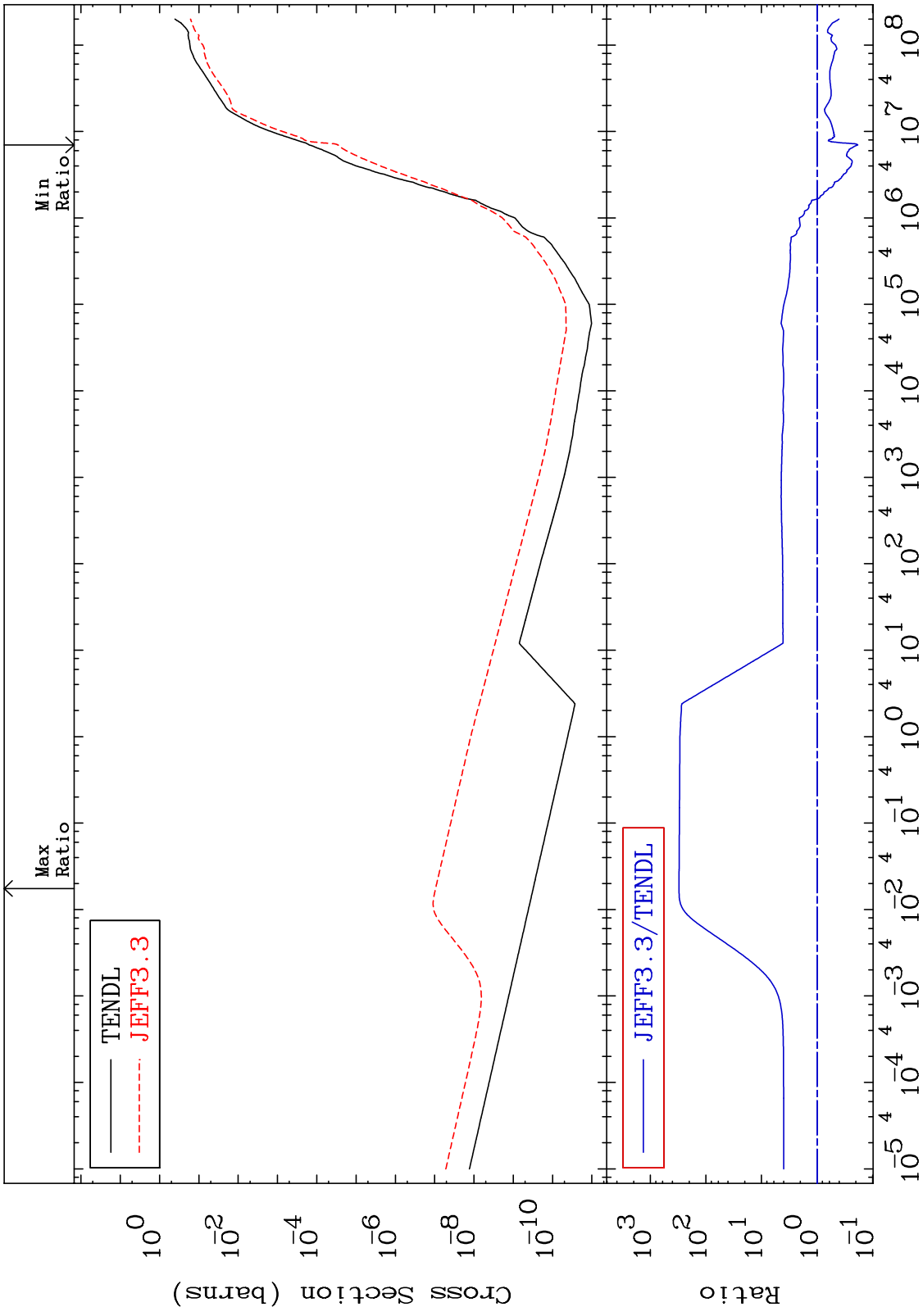


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Incident Energy (eV)

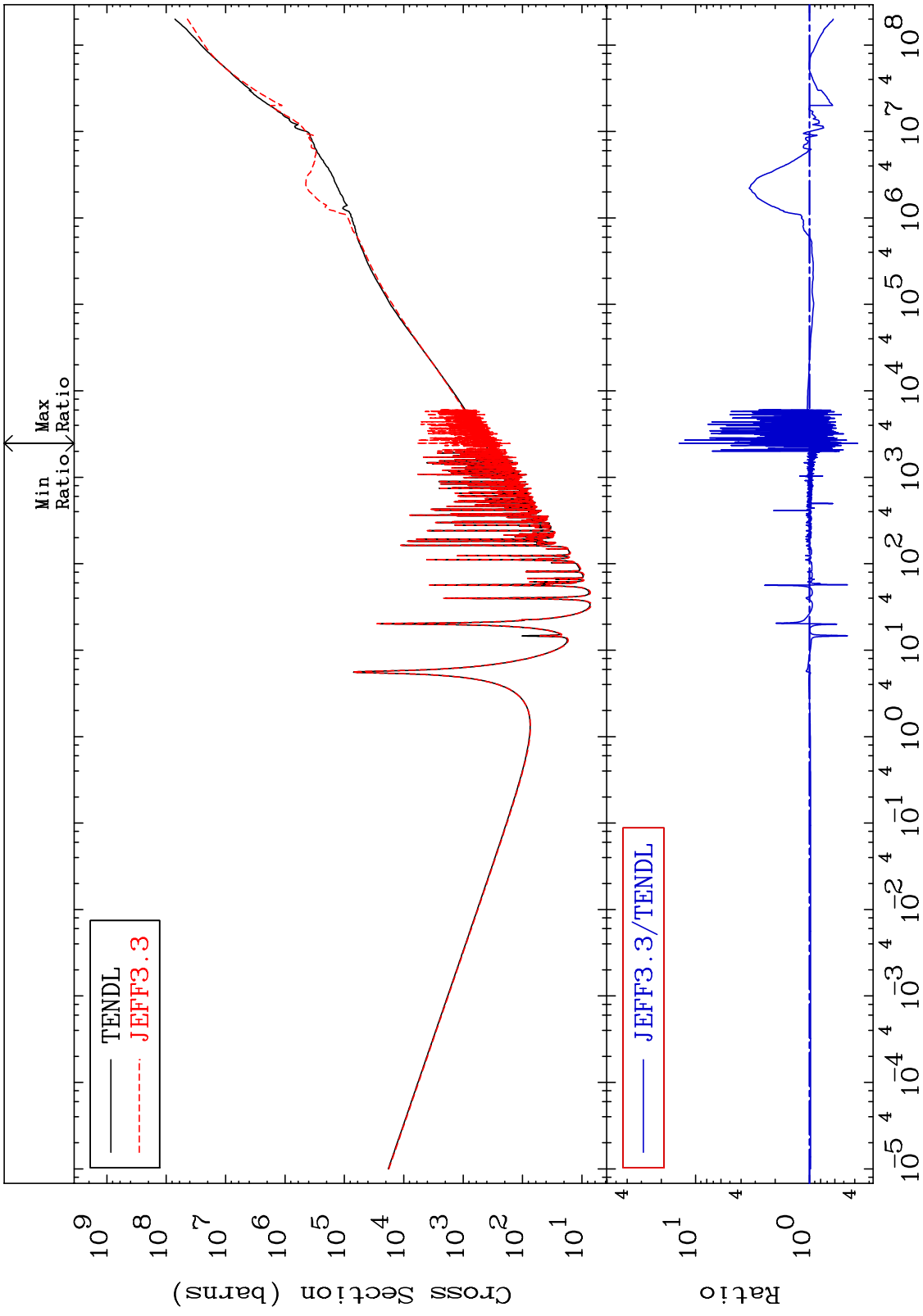
43-Tc-99

MAT 4325      He-4 Production Cross Section      43-Tc-99  
 -81.56 To 9999. %





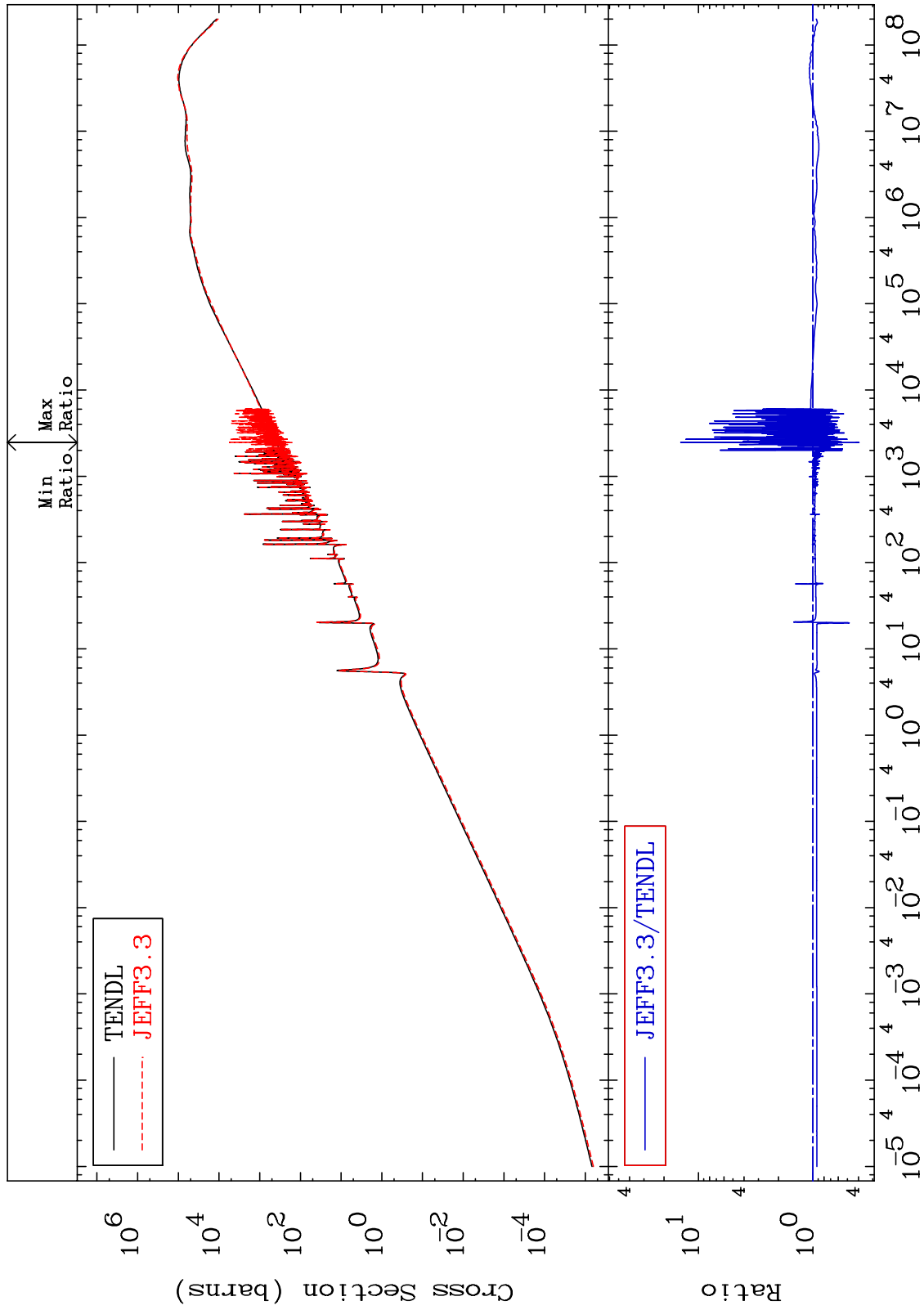
MAT 4325      Kerma total (eV-barns)      43-Tc-99  
 Cross Section      -62.36 To 1299. %



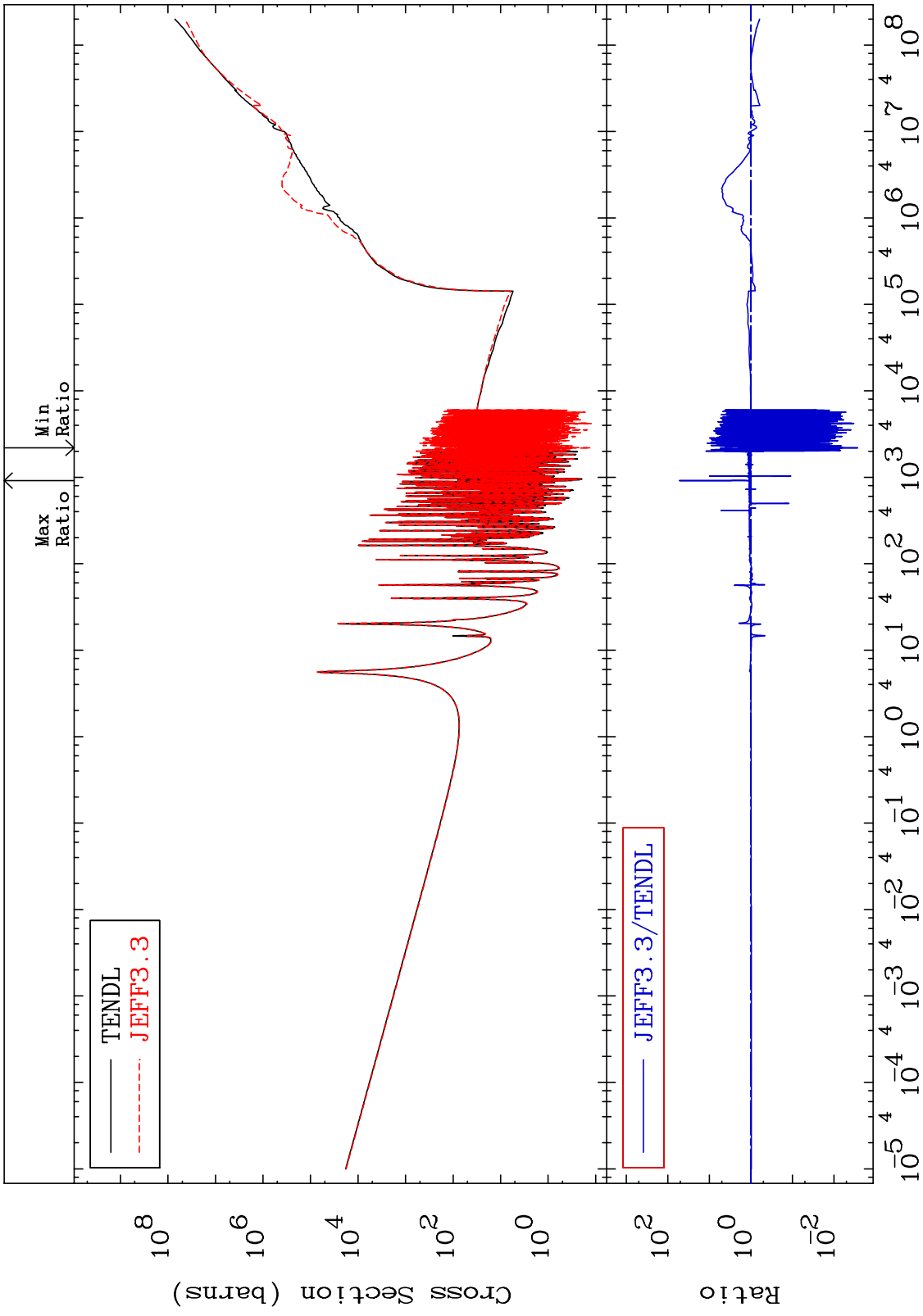
MAT 4325

Kerma elastic  
Cross Section

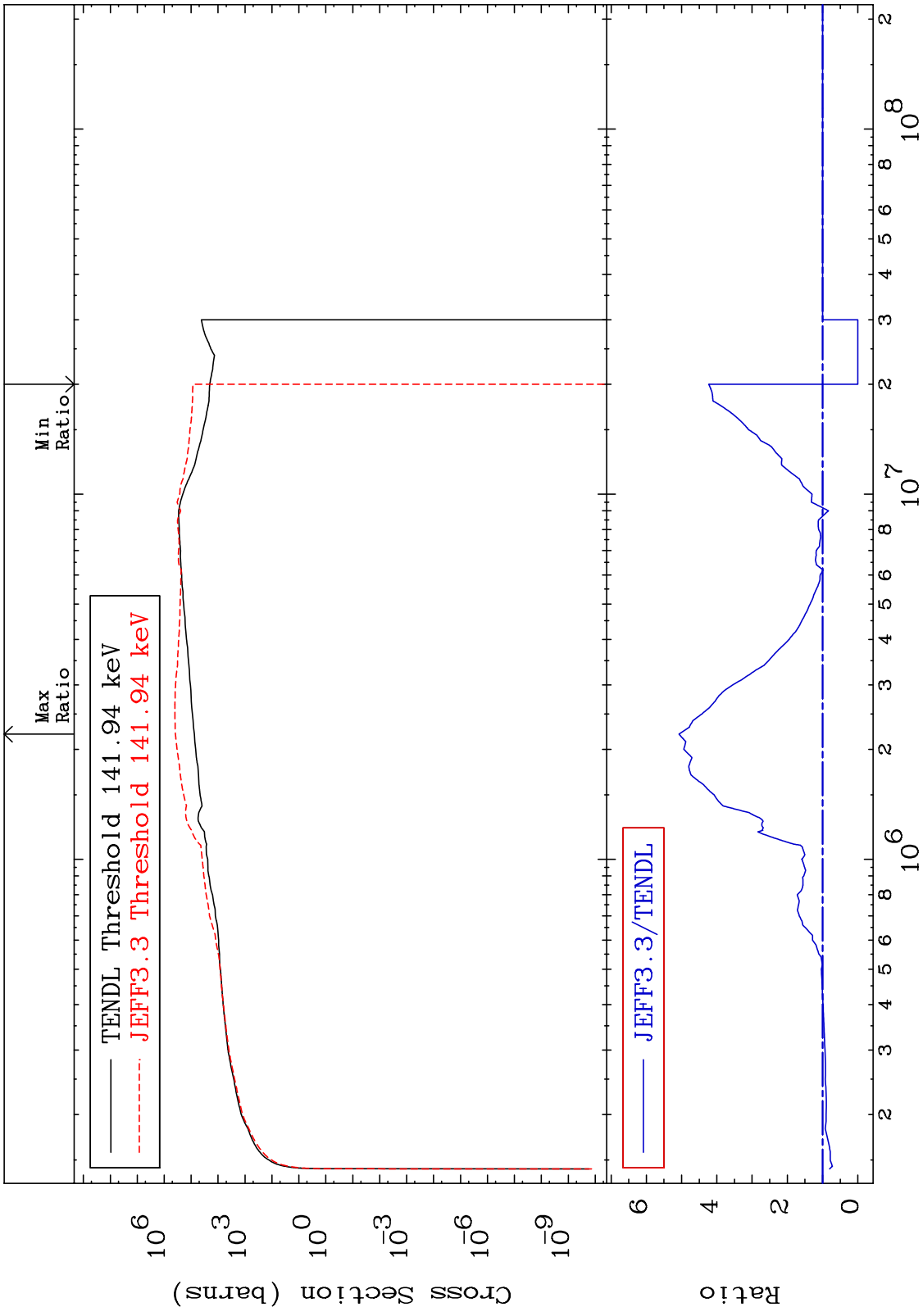
43-Tc-99  
-60.46 To 1333. %



MAT 4325      Kerma non-elastic (all but mt2)      43-Tc-99  
 Cross Section      -99.73 To 5259. %



MAT 4325      Kerma inelastic (mt51-91)      43-Tc-99  
 -100.0 To 407.3 %

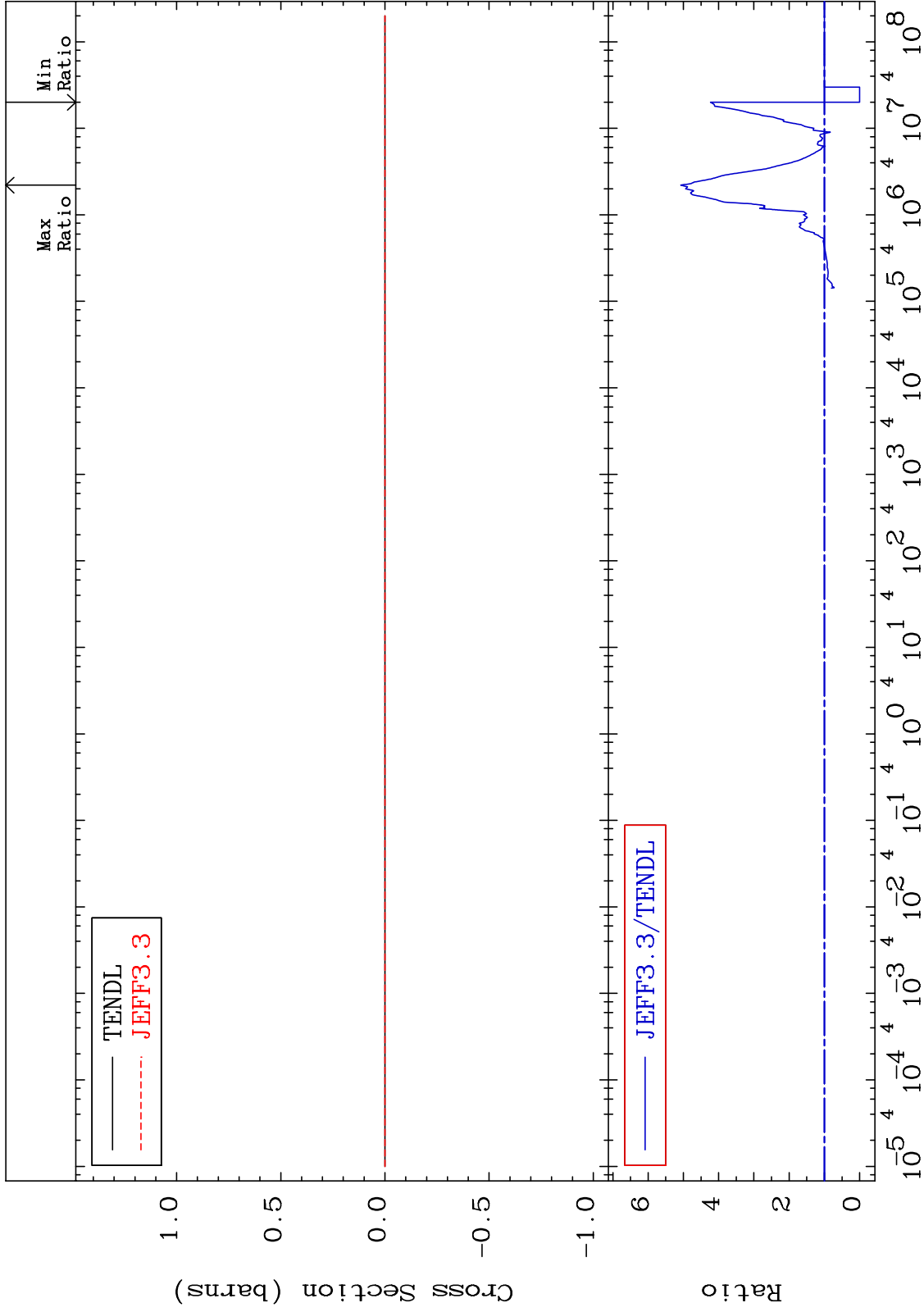


51      Incident Energy (eV)      43-Tc-99

MAT 4325

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

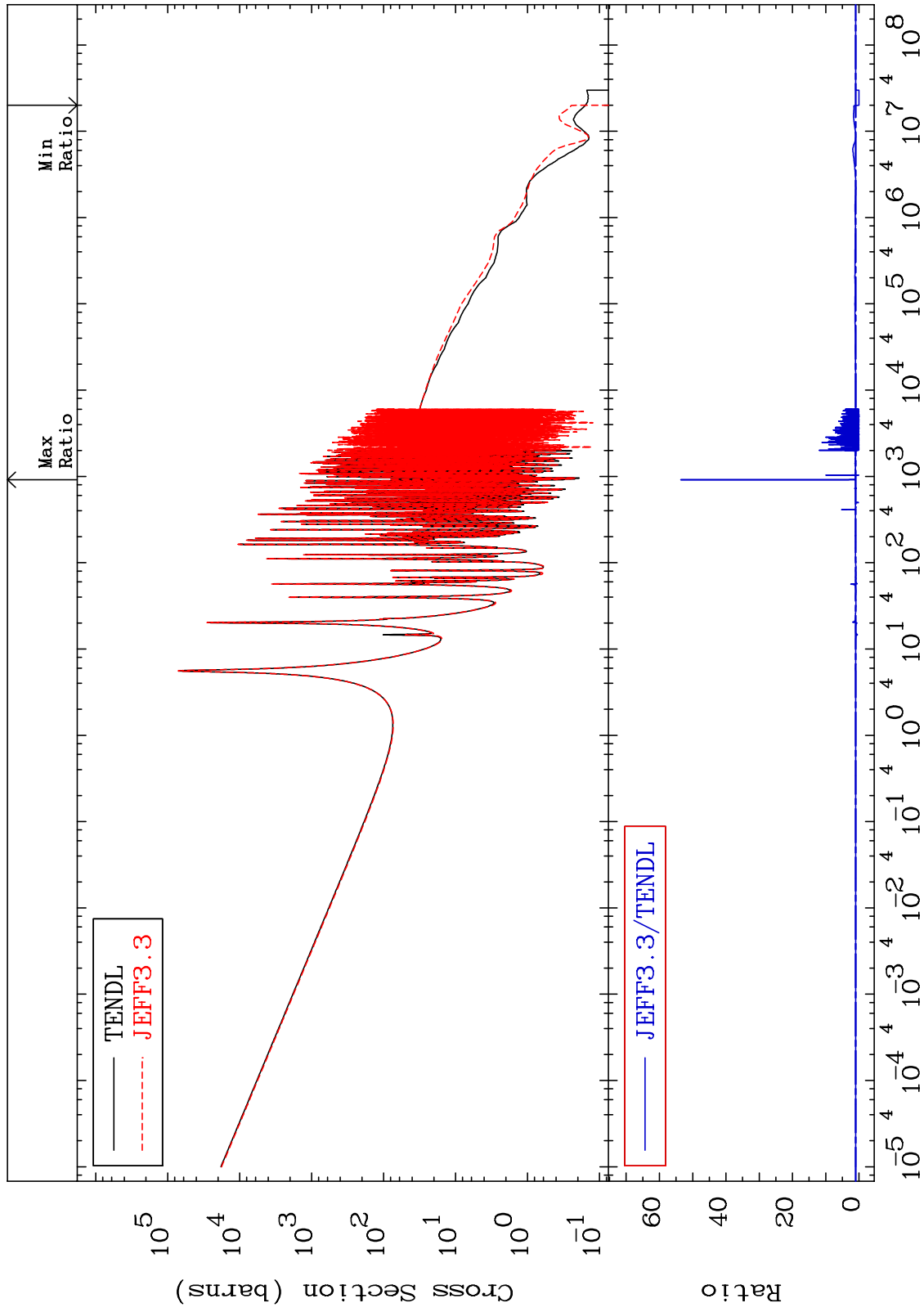
43-Tc-99  
-100.0 To 407.3 %



MAT 4325

Kerma capture (mt102)  
Cross Section

43-Tc-99  
-100.0 To 5262. %



53

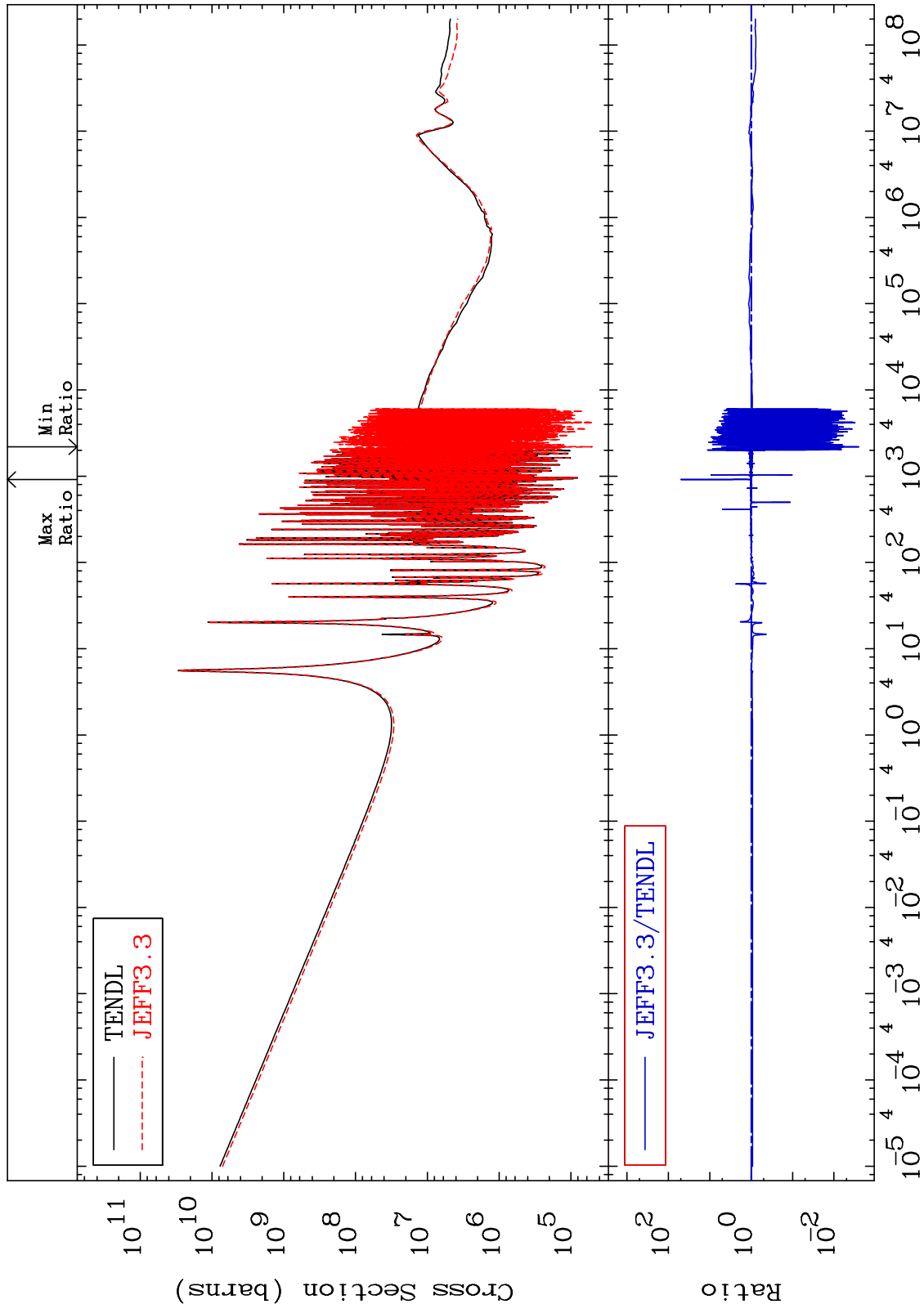
Incident Energy (eV)

43-Tc-99

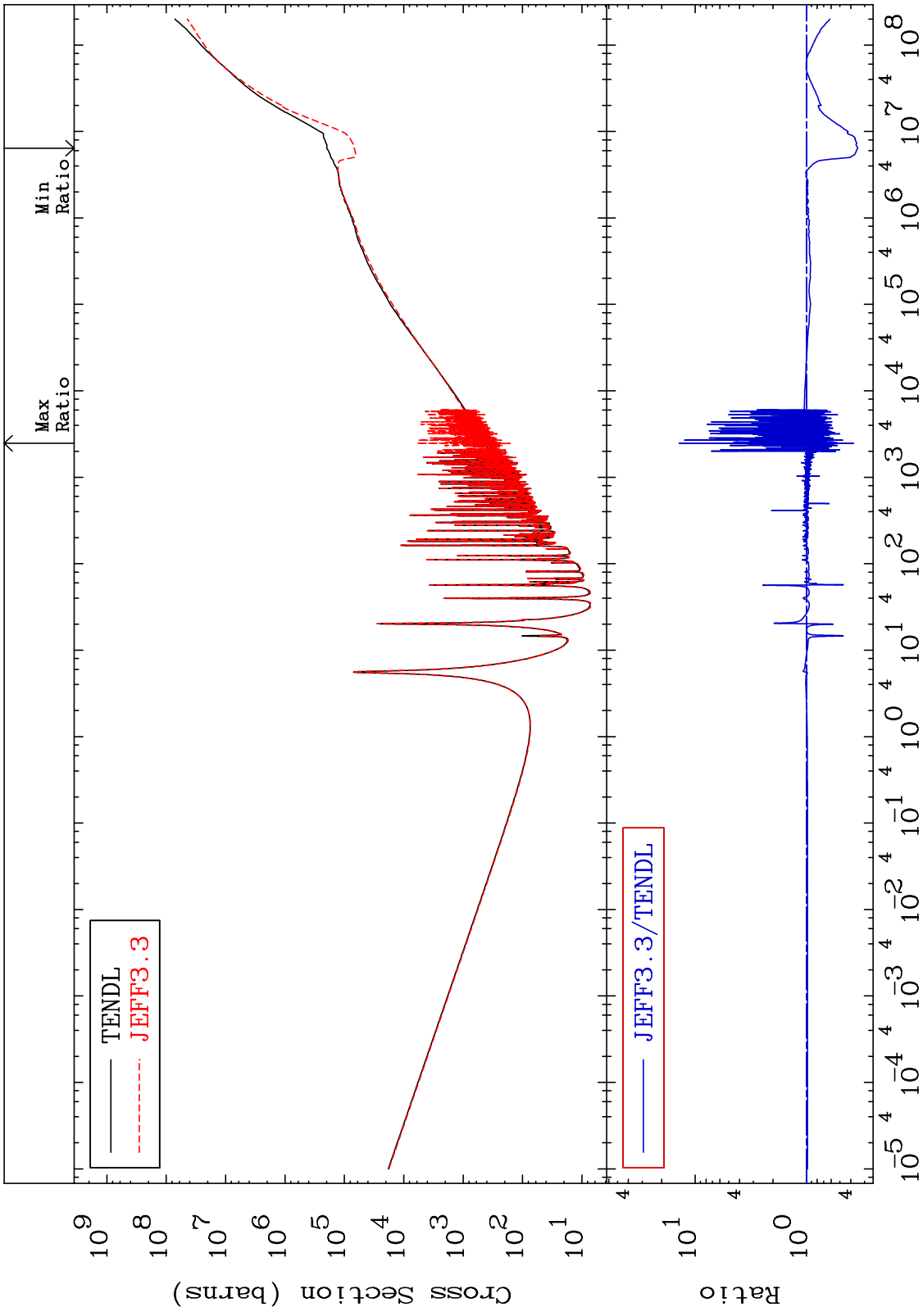
MAT 4325

Total photon (eV-barns)  
Cross Section

43-Tc-99  
-99.75 To 4946. %



MAT 4325 Total kinematic kerma (high limit) 43-Tc-99  
 Cross Section -65.48 To 1299. %

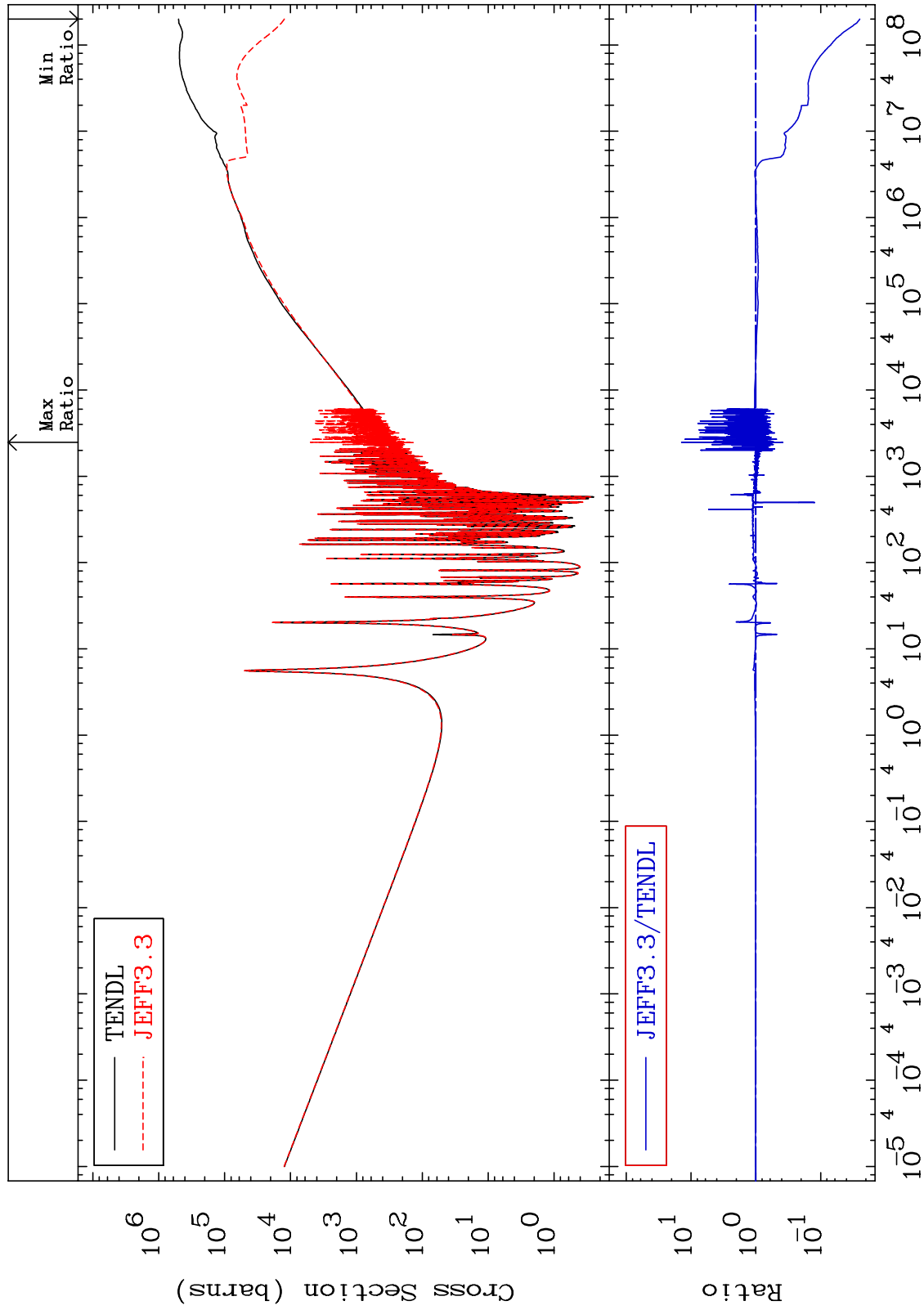




MAT 4325

Dpa total (eV-barns)  
Cross Section

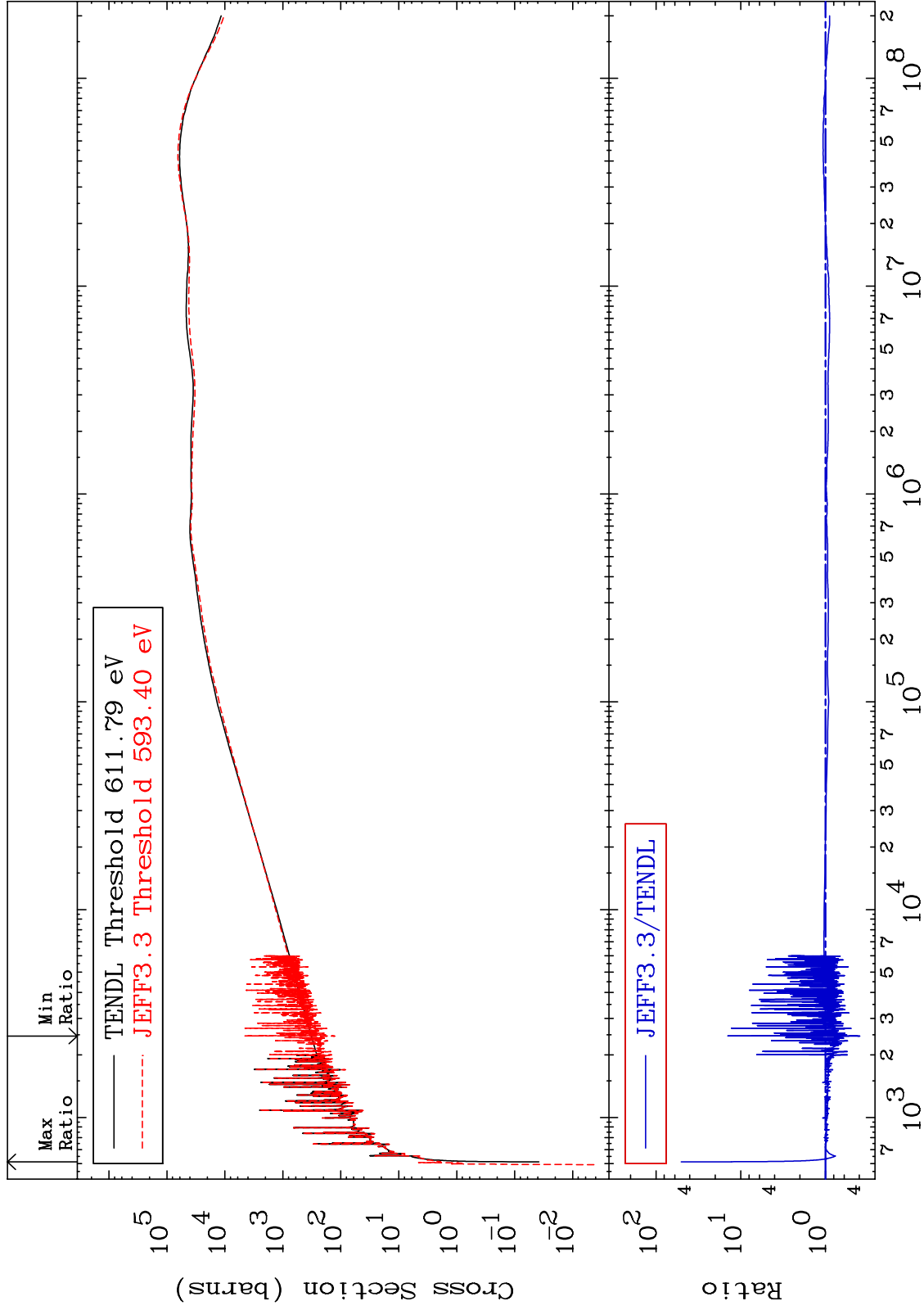
43-Tc-99  
-97.51 To 1304. %



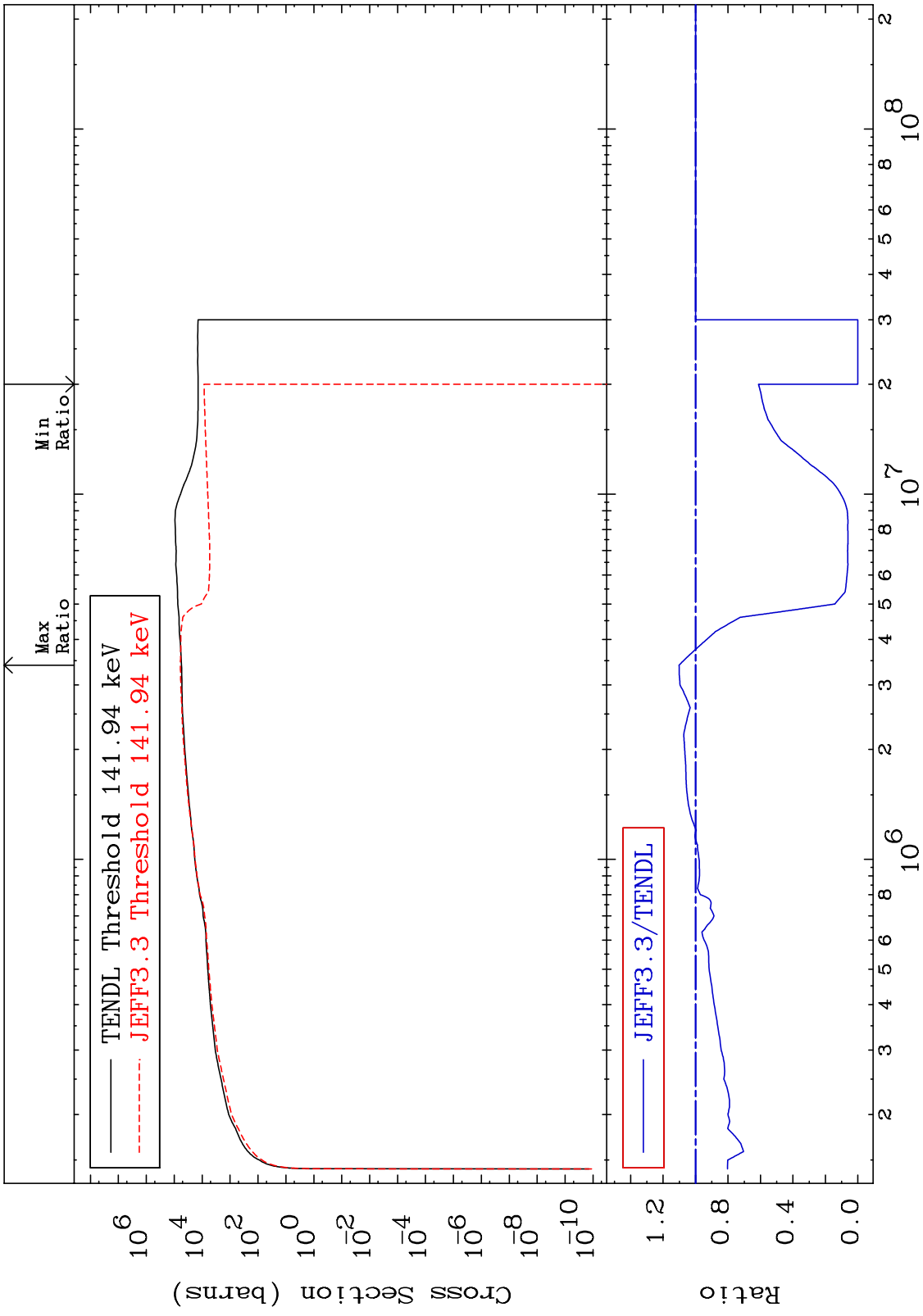
MAT 4325

Dpa elastic (mt2)  
Cross Section

43-Tc-99  
-60.56 To 4942. %



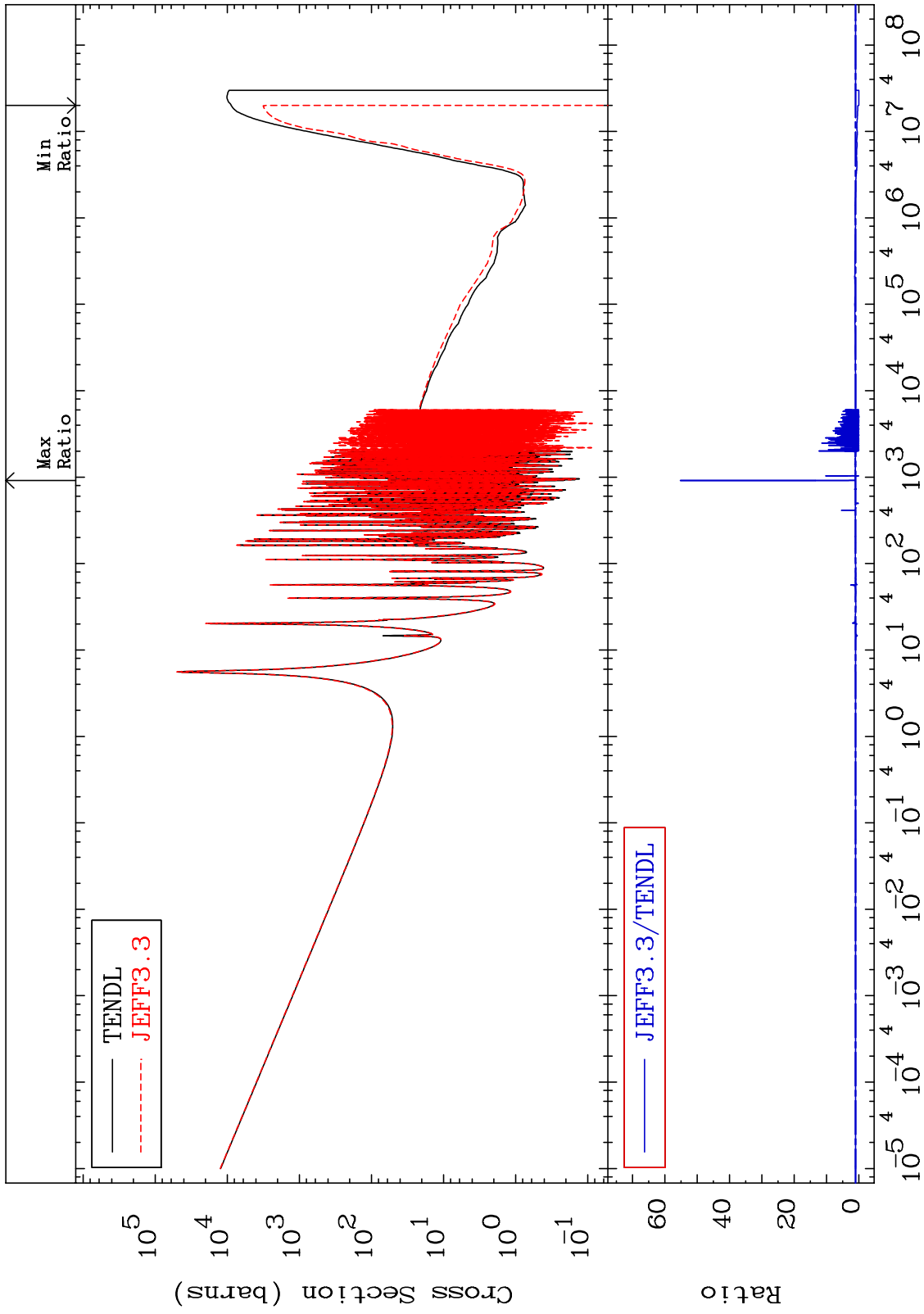
MAT 4325      Dpa inelastic (mt51-91)      43-Tc-99  
 Cross Section      -100.0 To 10.19 %



MAT 4325

Dpa disappearance (mt102 -120)  
Cross Section

43-Tc-99  
-100.0 To 5427. %

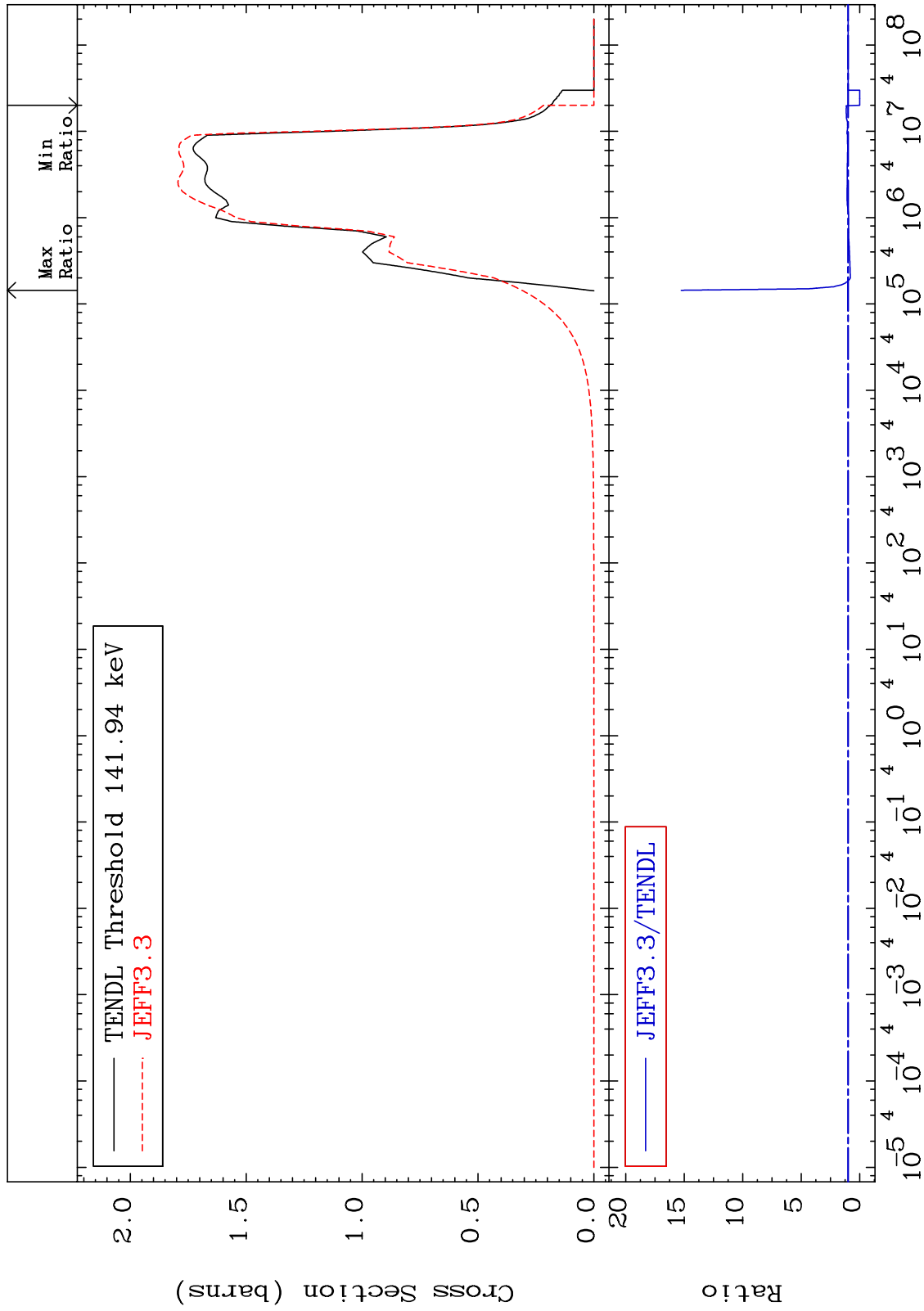


MAT 4325

Inelastic: 43-Tc-99g

43-Tc-99

Radionuclide Production Cross Section -100.0 To 1425. %



60

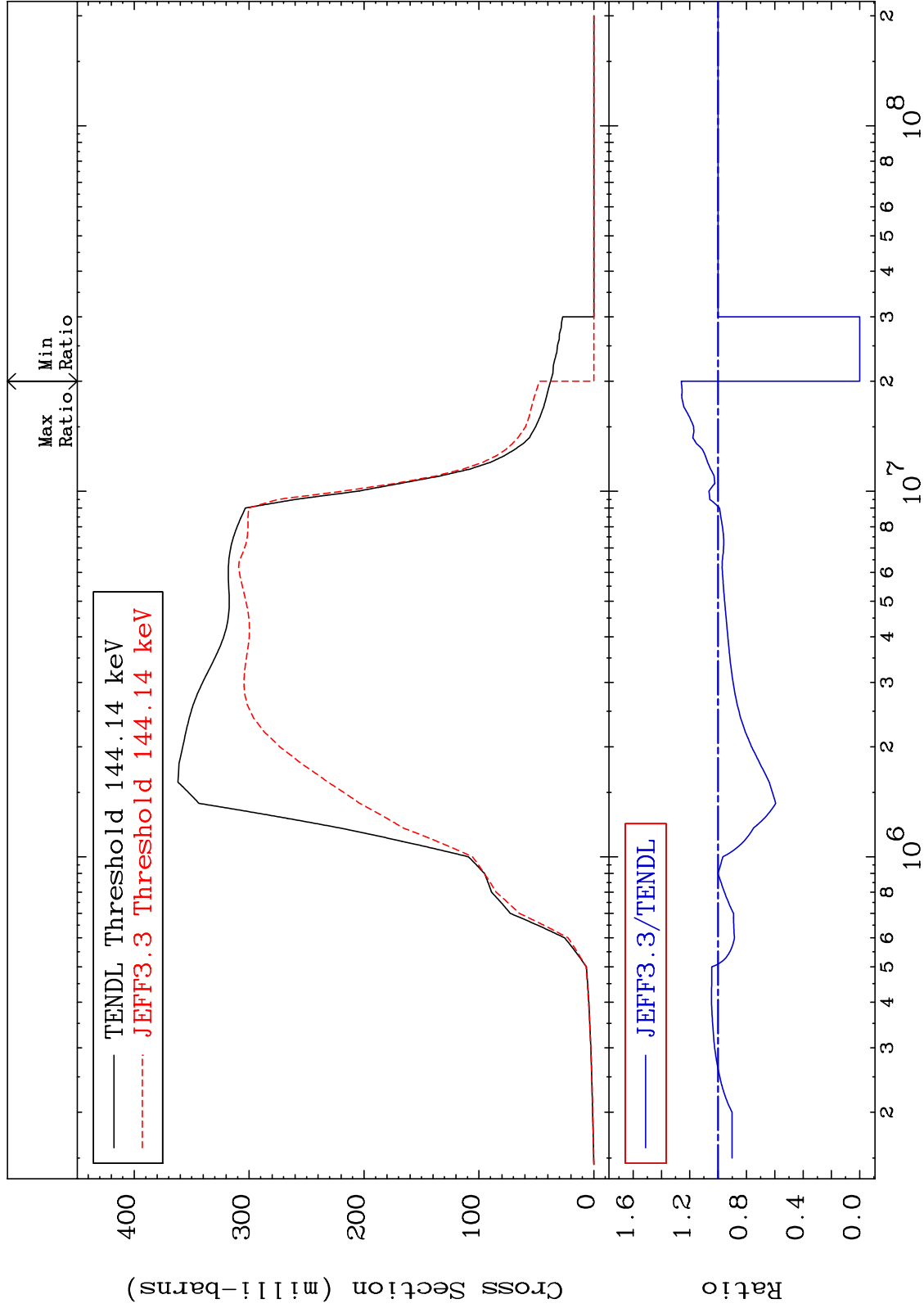
43-Tc-99

MAT 4325

Inelastic:43-Tc-99m2

43-Tc-99

Radionuclide Production Cross Section -100.0 To 26.02 %

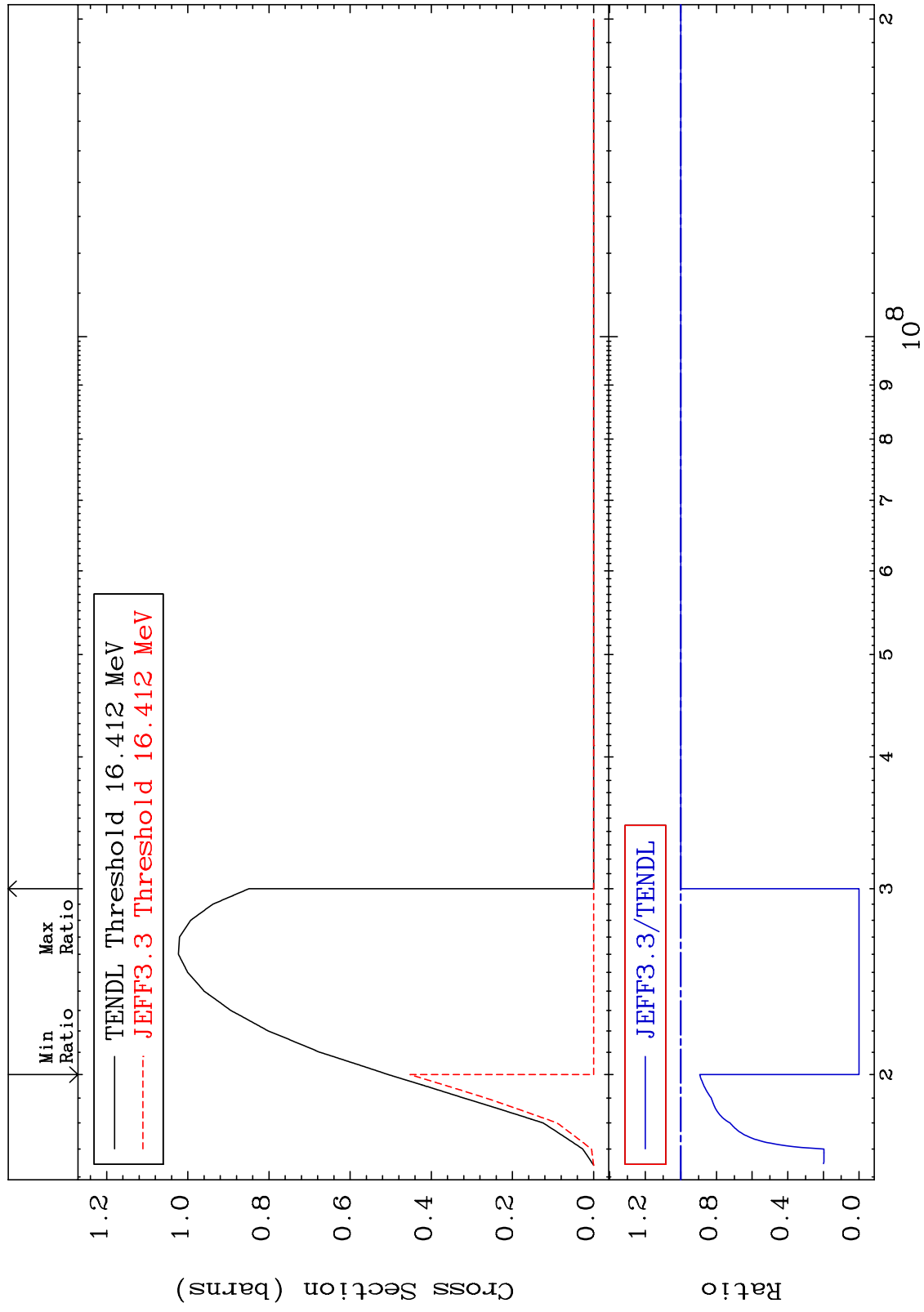


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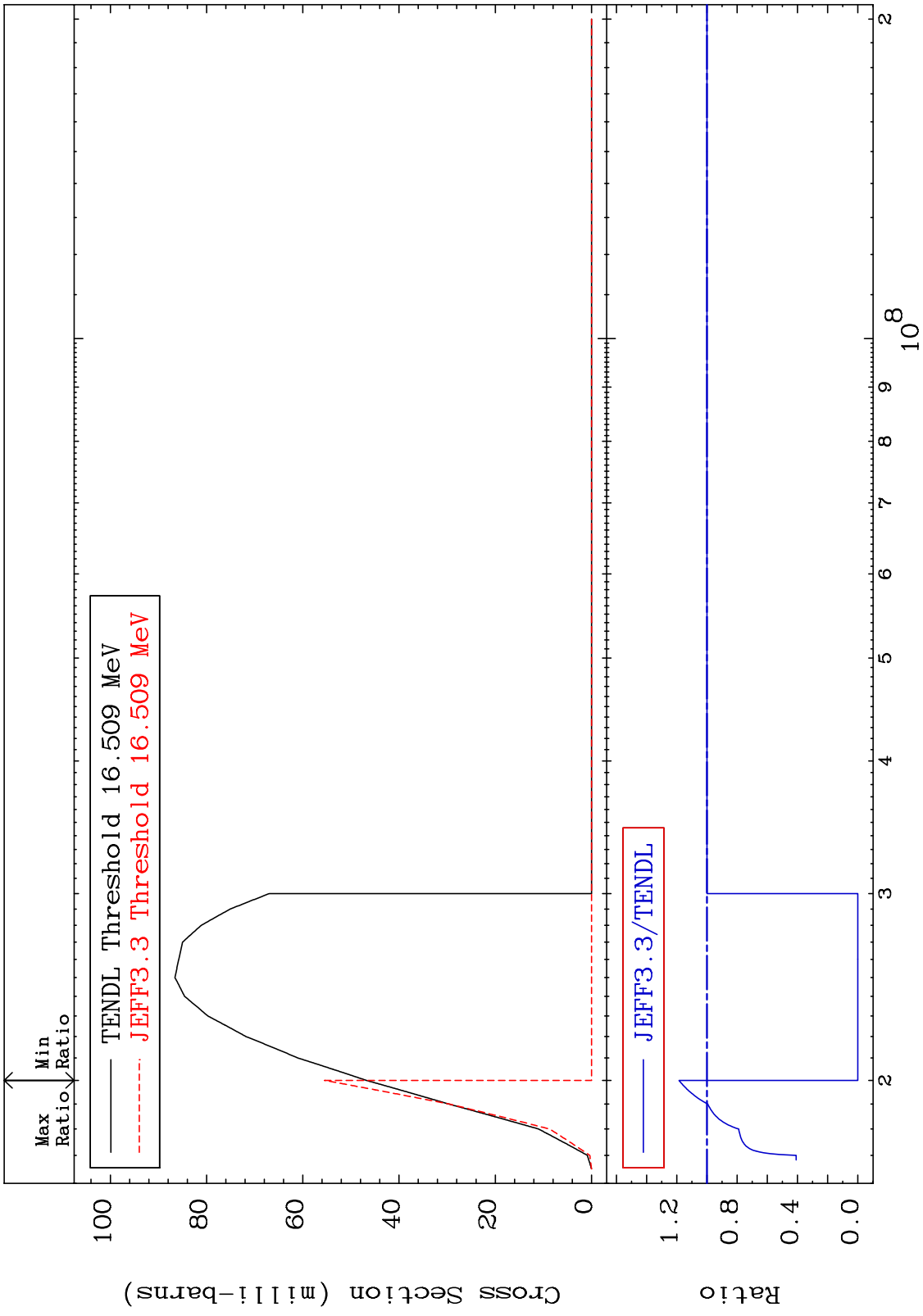
Incident Energy (eV)

43-Tc-99

MAT 4325 (n,3n): 43-Tc-97g 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 0.000 %

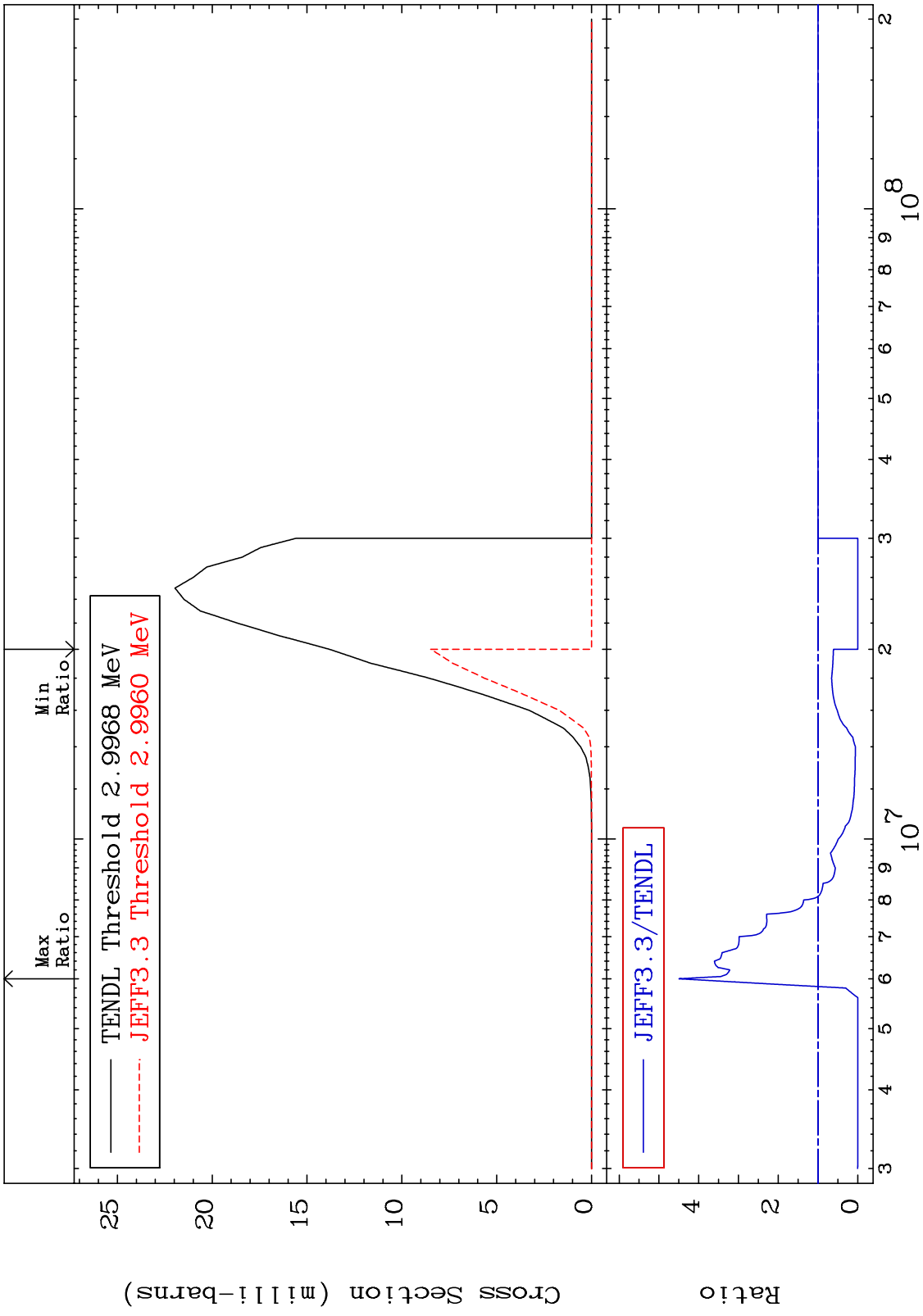


MAT 4325 (n,3n):43-Tc-97m1 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 18.53 %

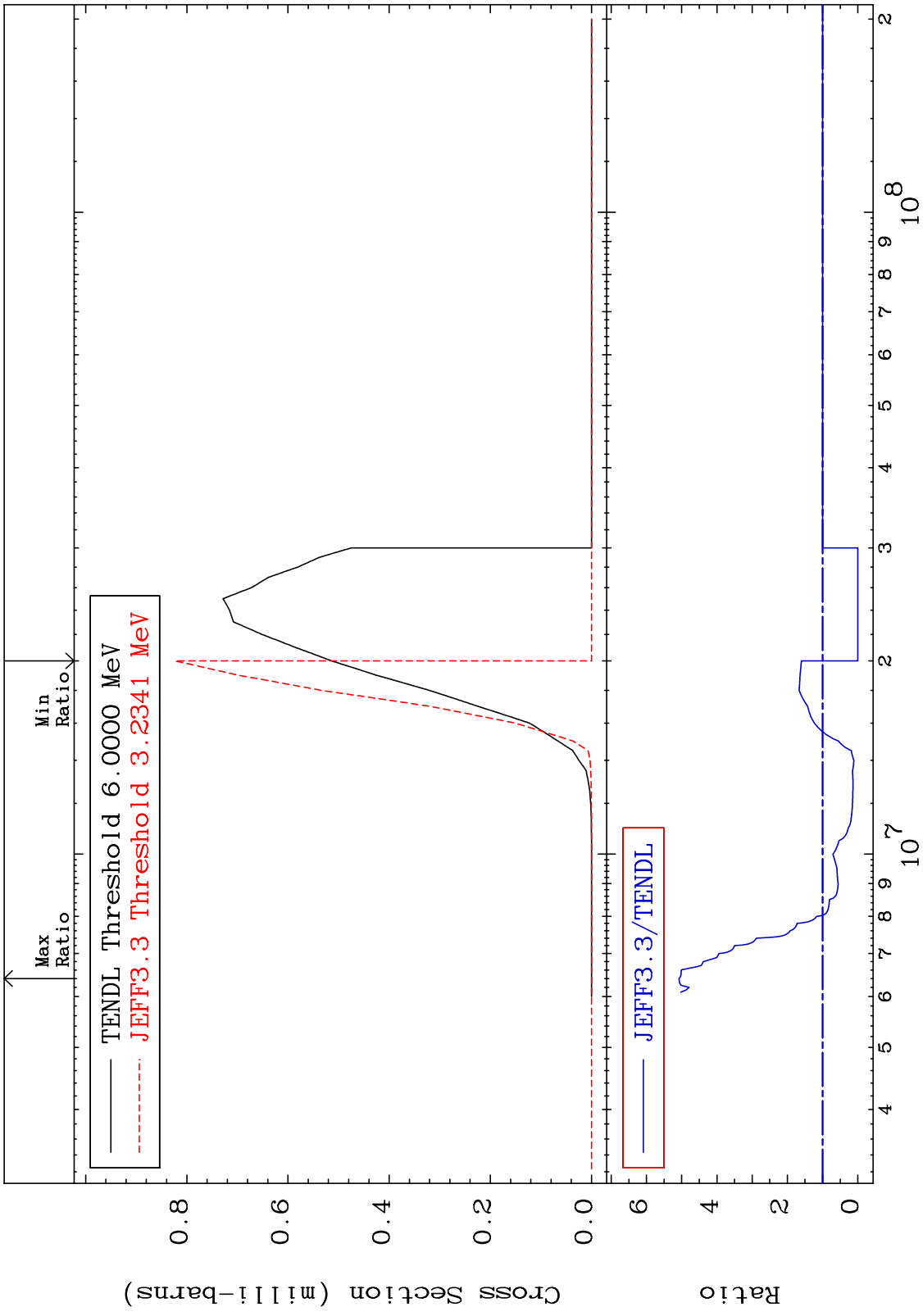




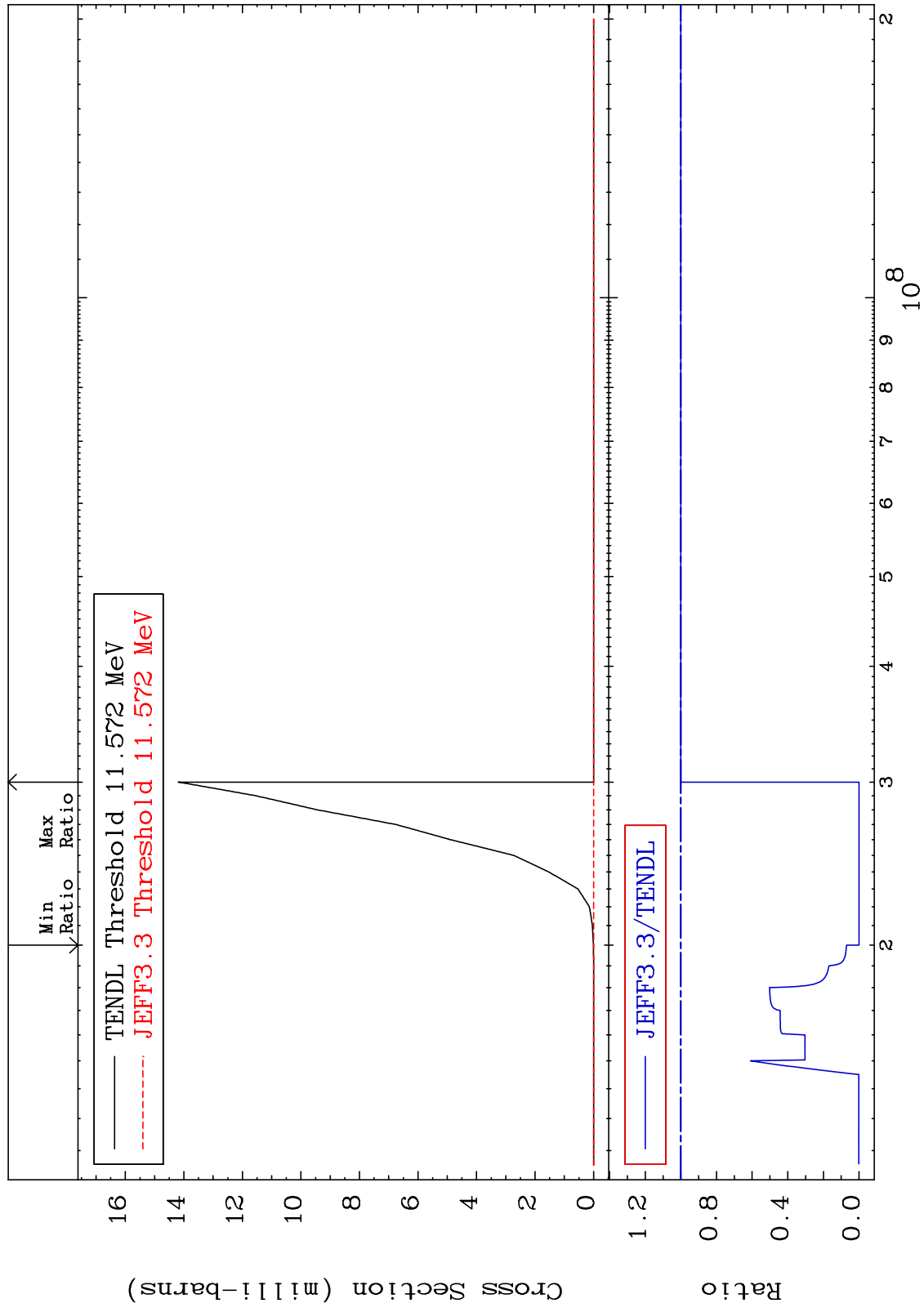
MAT 4325 (n, n')  $\alpha$ : 41-Nb-95g 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 349.5 %



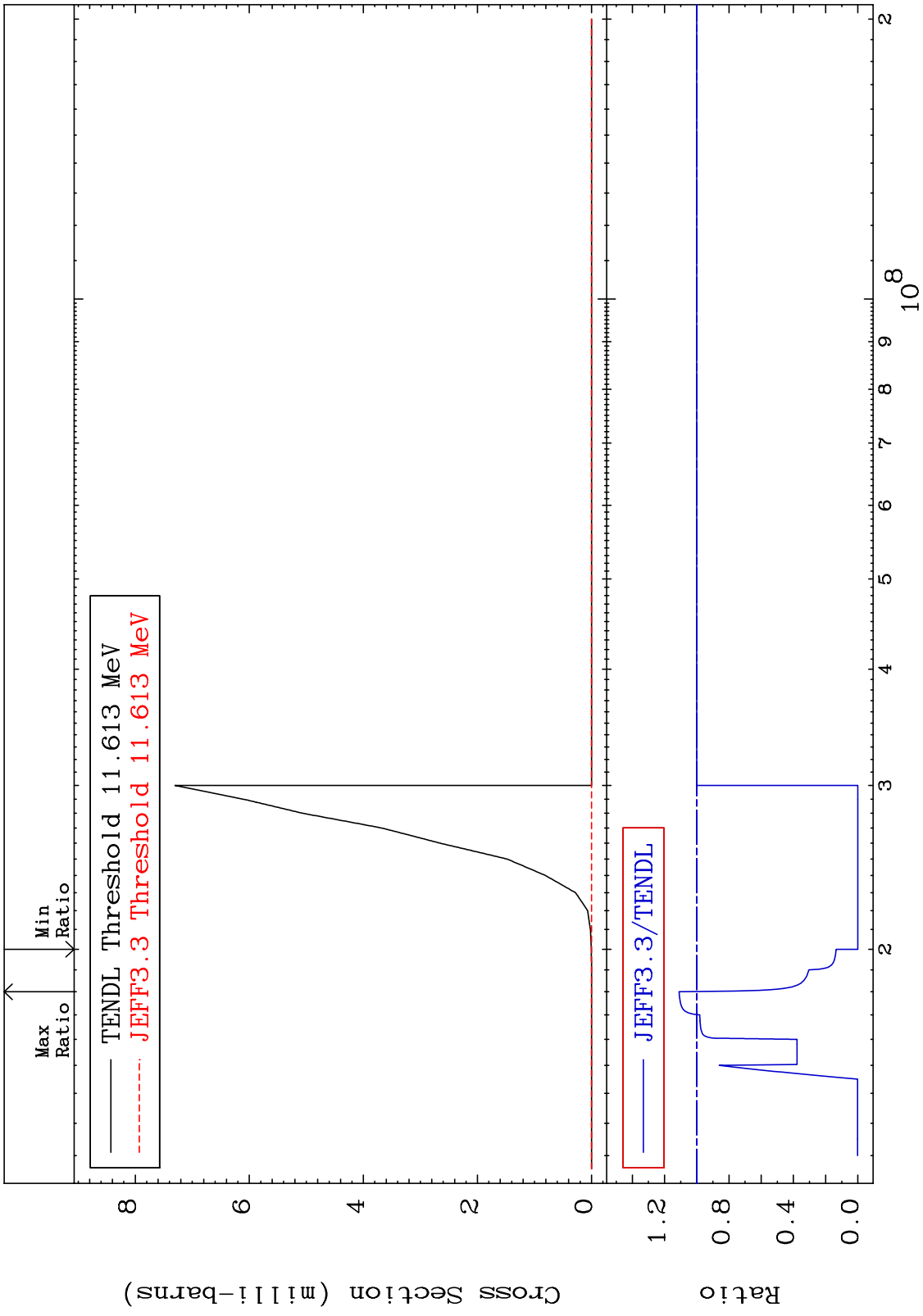
MAT 4325 (n, n')  $\alpha$ : 41-Nb-95m1 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 407.5 %



MAT 4325 (n,2n)  $\alpha$ :41-Nb-94g 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 0.000 %



MAT 4325 (n,2n)  $\alpha$ :41-Nb-94m1 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 10.99 %

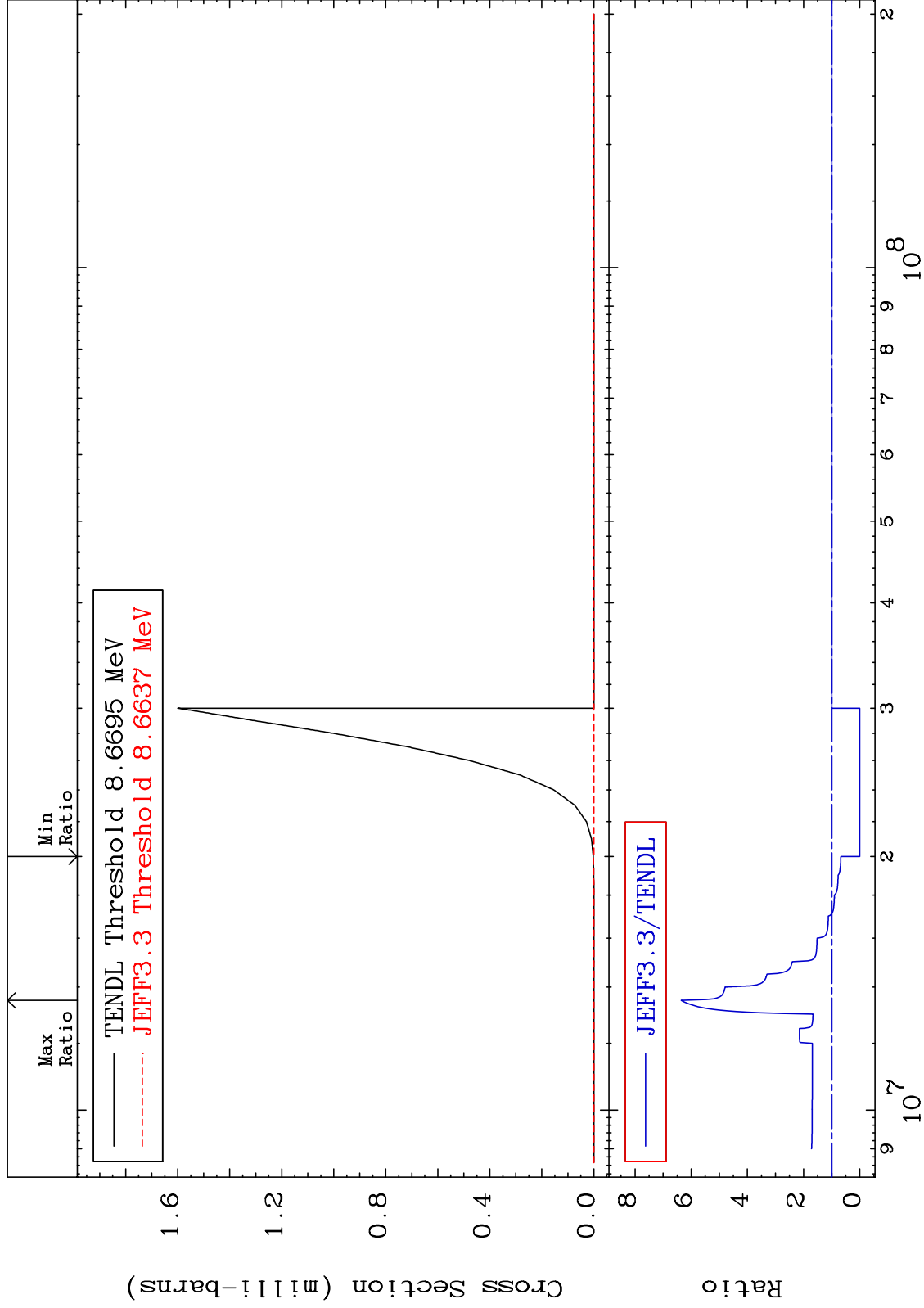


MAT 4325

(n,He-3):41-Nb-97g

43-Tc-99

Radionuclide Production Cross Section -100.0 To 535.5 %



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Incident Energy (eV)

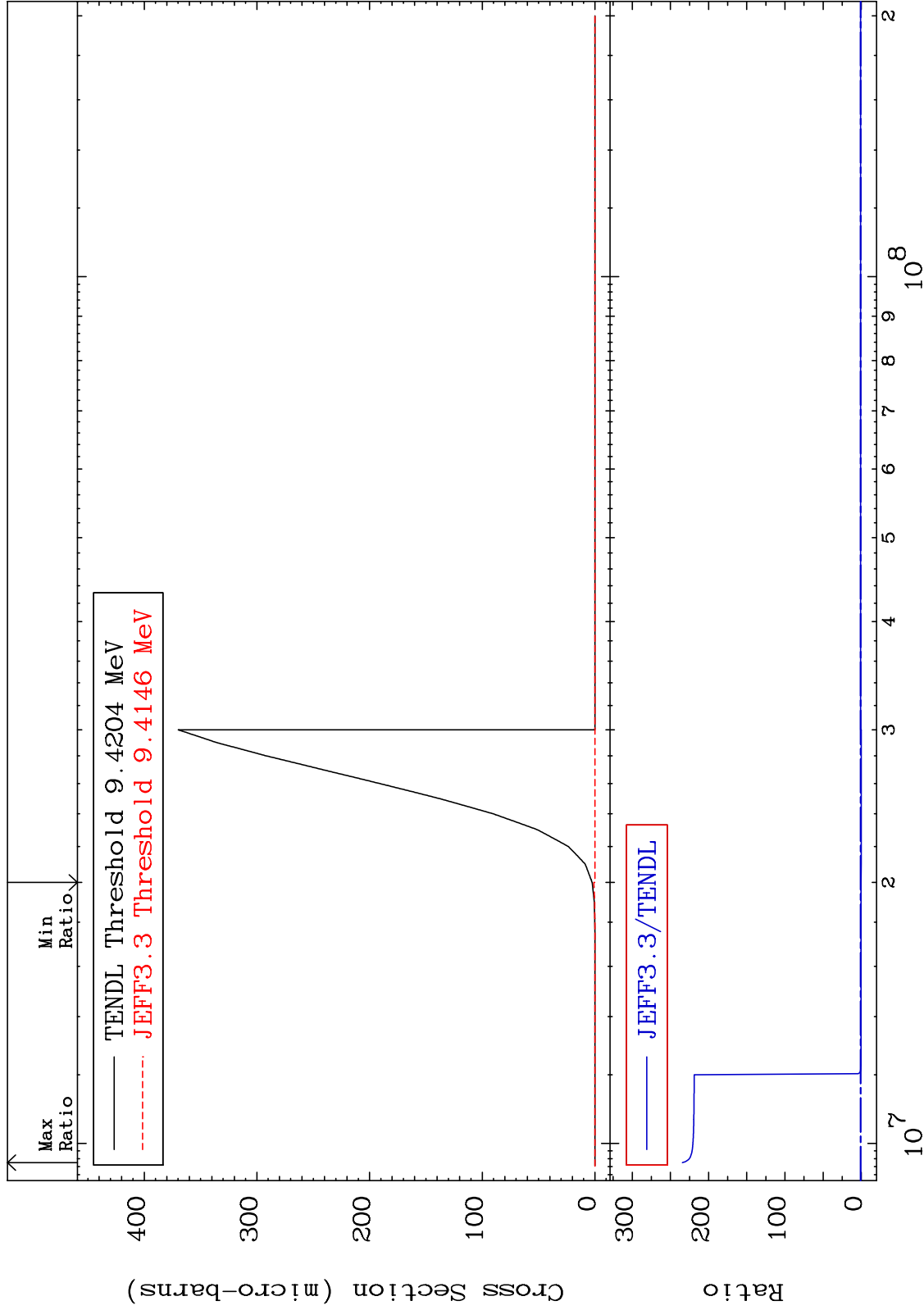
43-Tc-99

MAT 4325

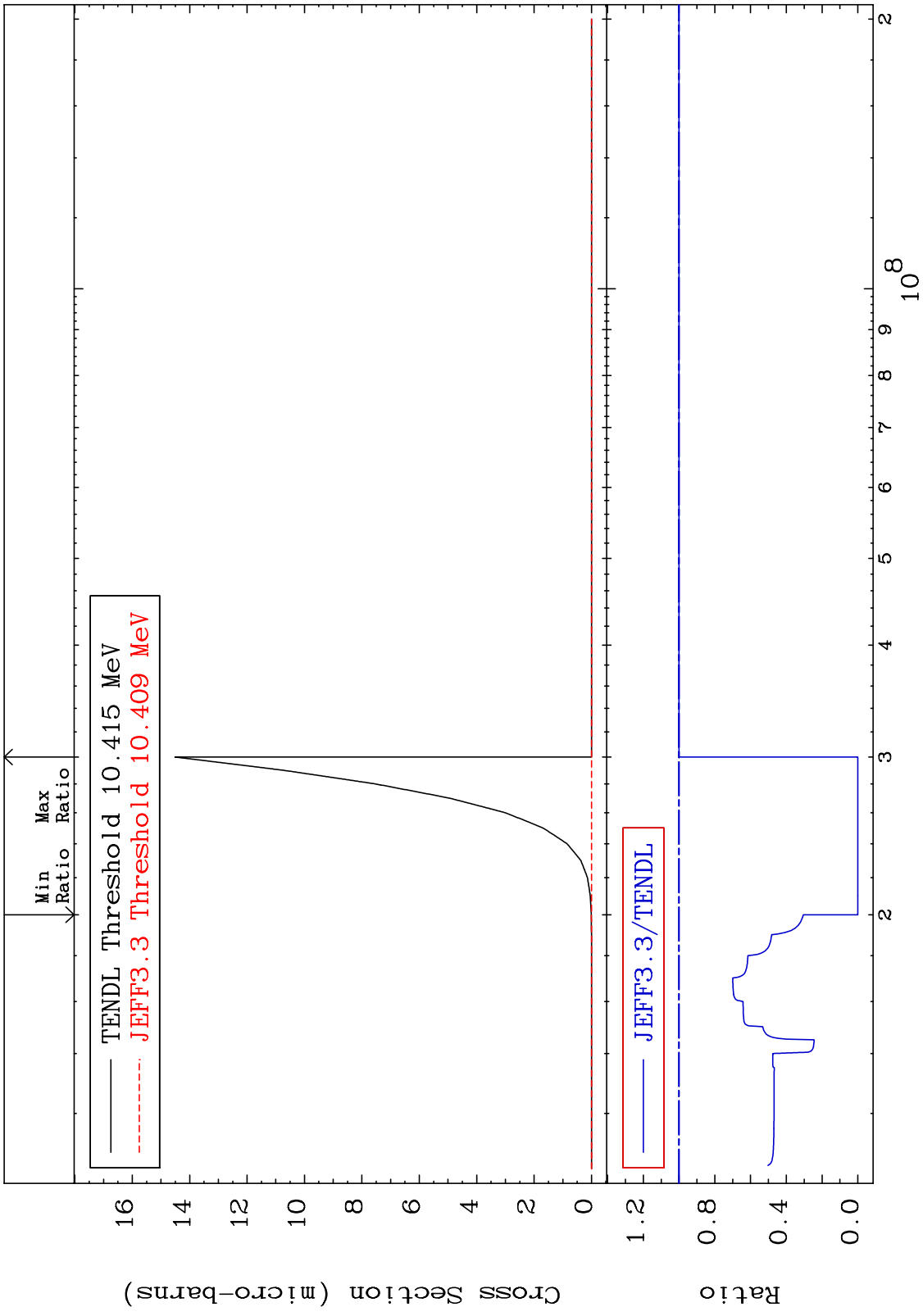
(n, He-3) : 41-Nb-97m1

43-Tc-99

Radionuclide Production Cross Section -100.0 To 9999. %



MAT 4325 (n,2p): 41-Nb-98g 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 0.000 %



MAT 4325 (n,2p):41-Nb-98m1 43-Tc-99  
 Radionuclide Production Cross Section -100.0 To 3876. %

