

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

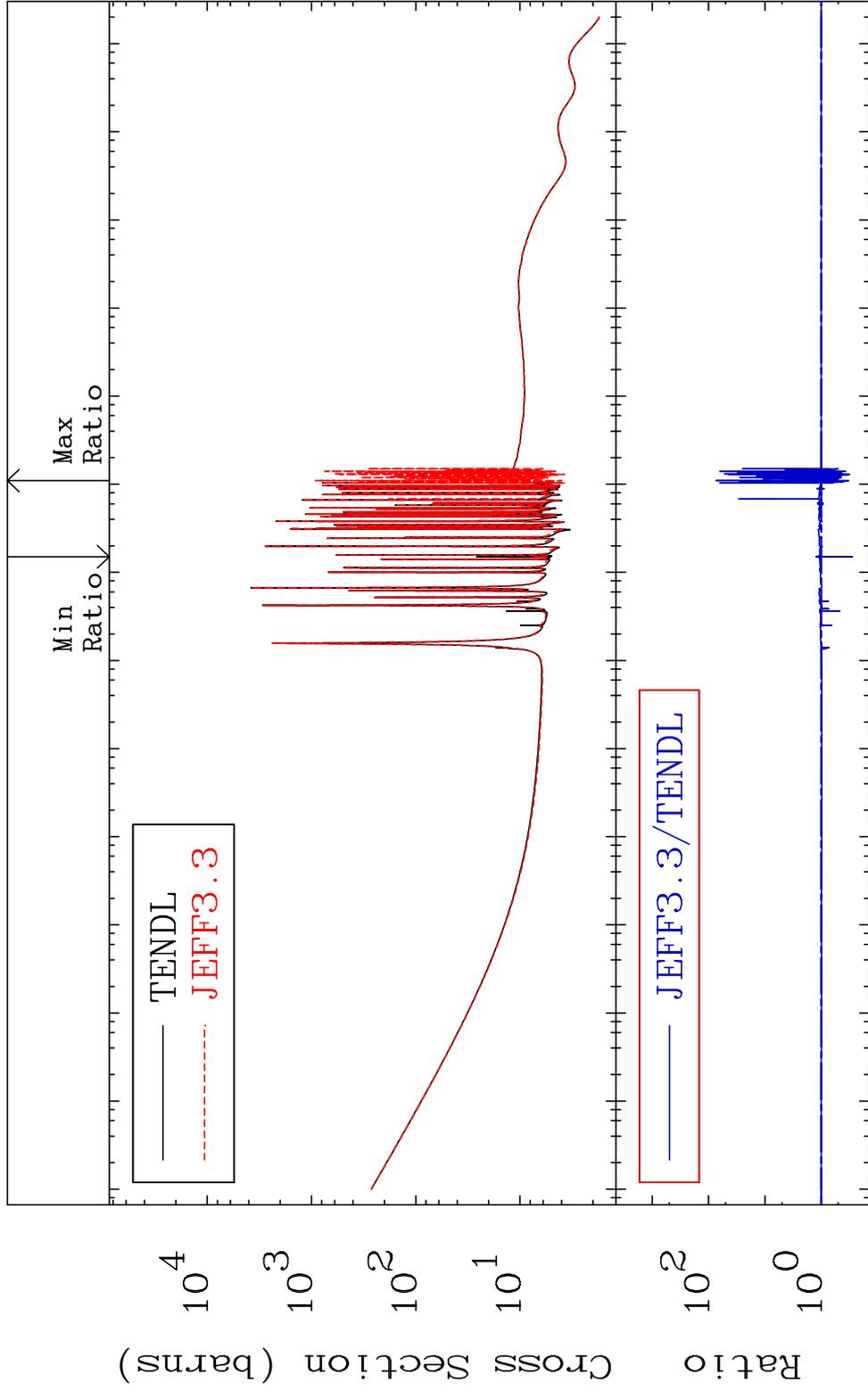
Tele: 925-443-1911

E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 4440

Total 44-Ru-101  
Cross Section -72.13 To 7325. %



10<sup>4</sup>  
10<sup>3</sup>  
10<sup>2</sup>  
10<sup>1</sup>  
10<sup>0</sup>  
10<sup>-1</sup>  
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10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

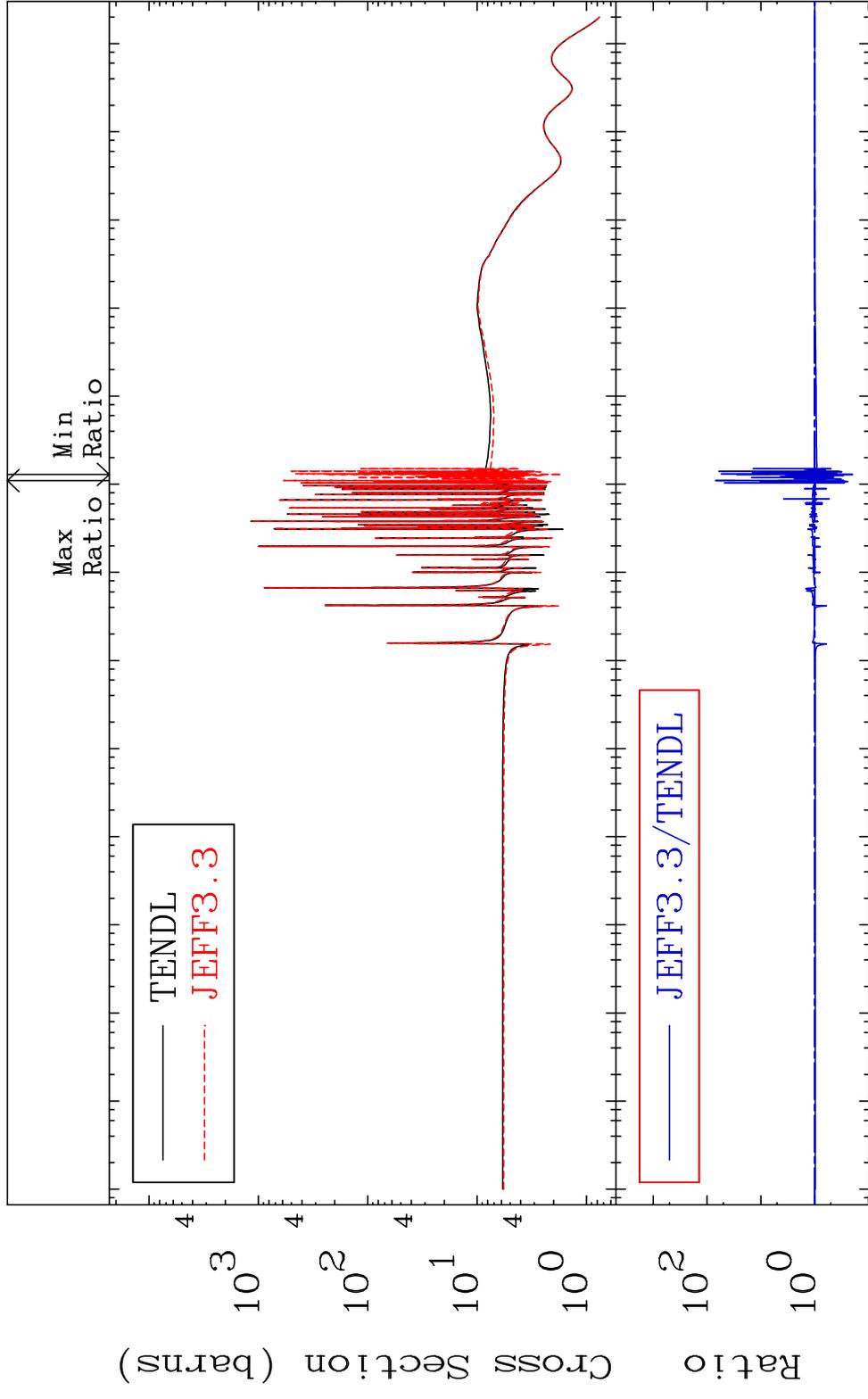
1 Incident Energy (eV) 44-Ru-101

MAT 4440

Elastic

44-Ru-101

Cross Section -80.19 To 6745. %

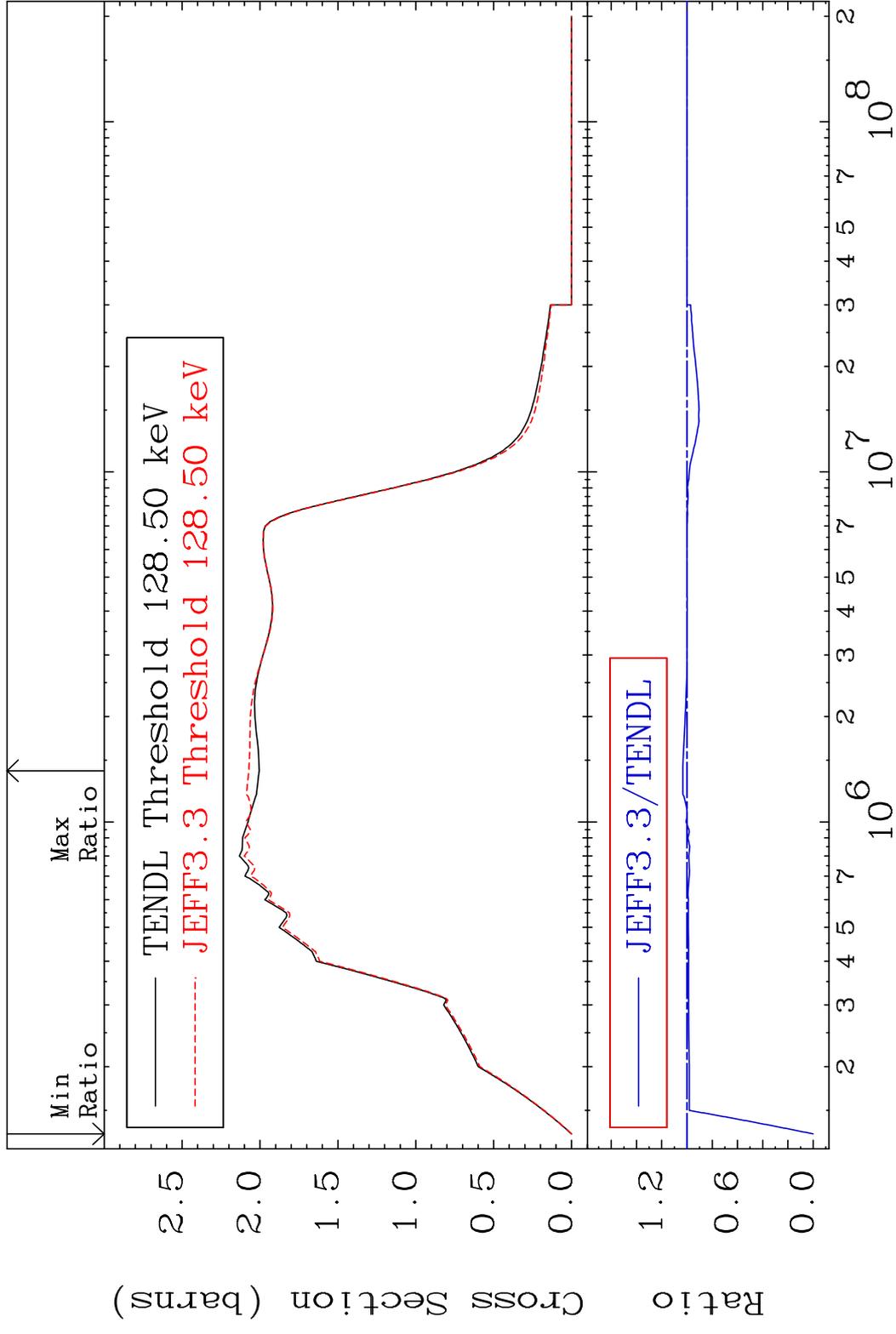


2

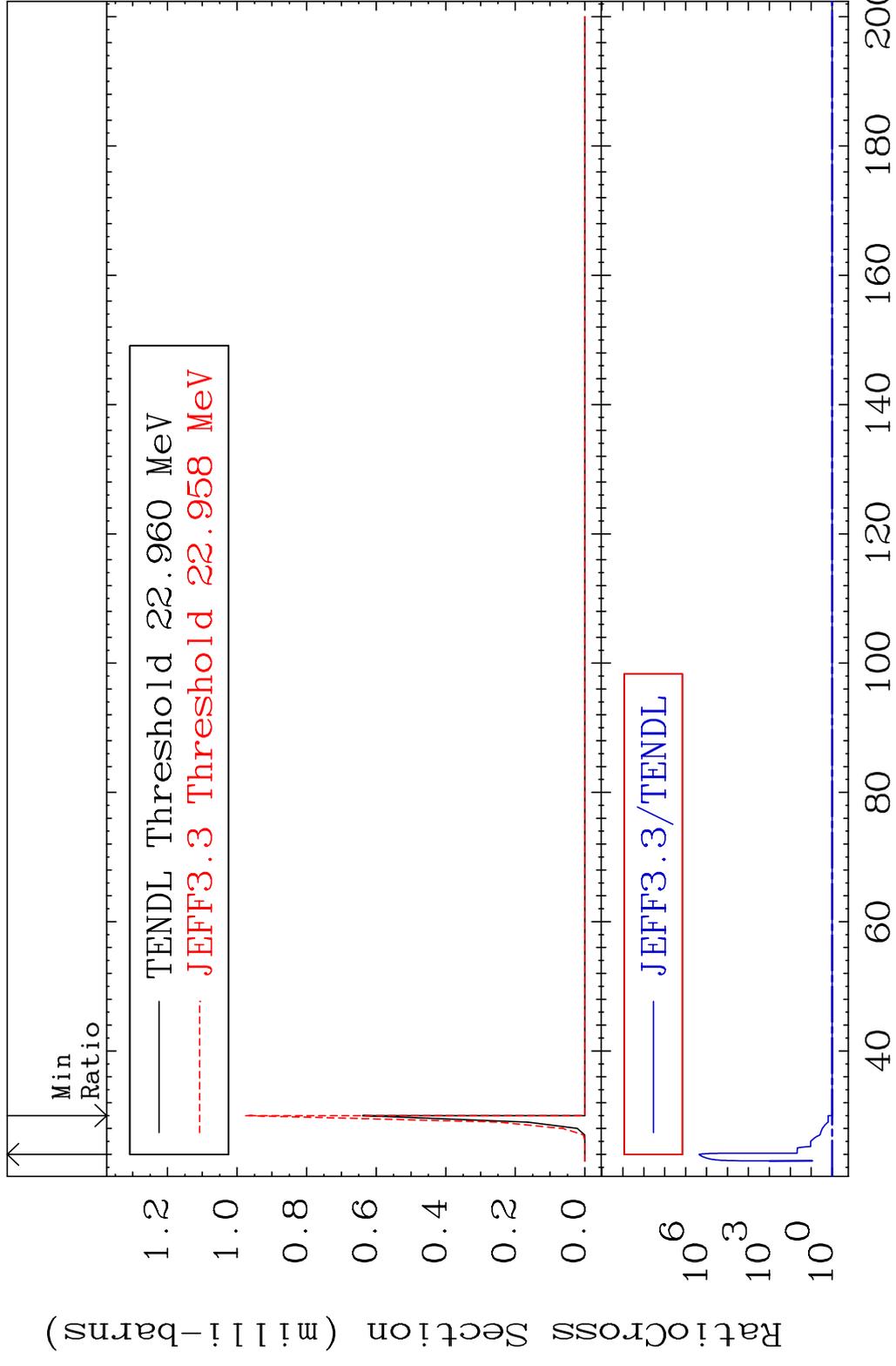
Incident Energy (eV)

44-Ru-101

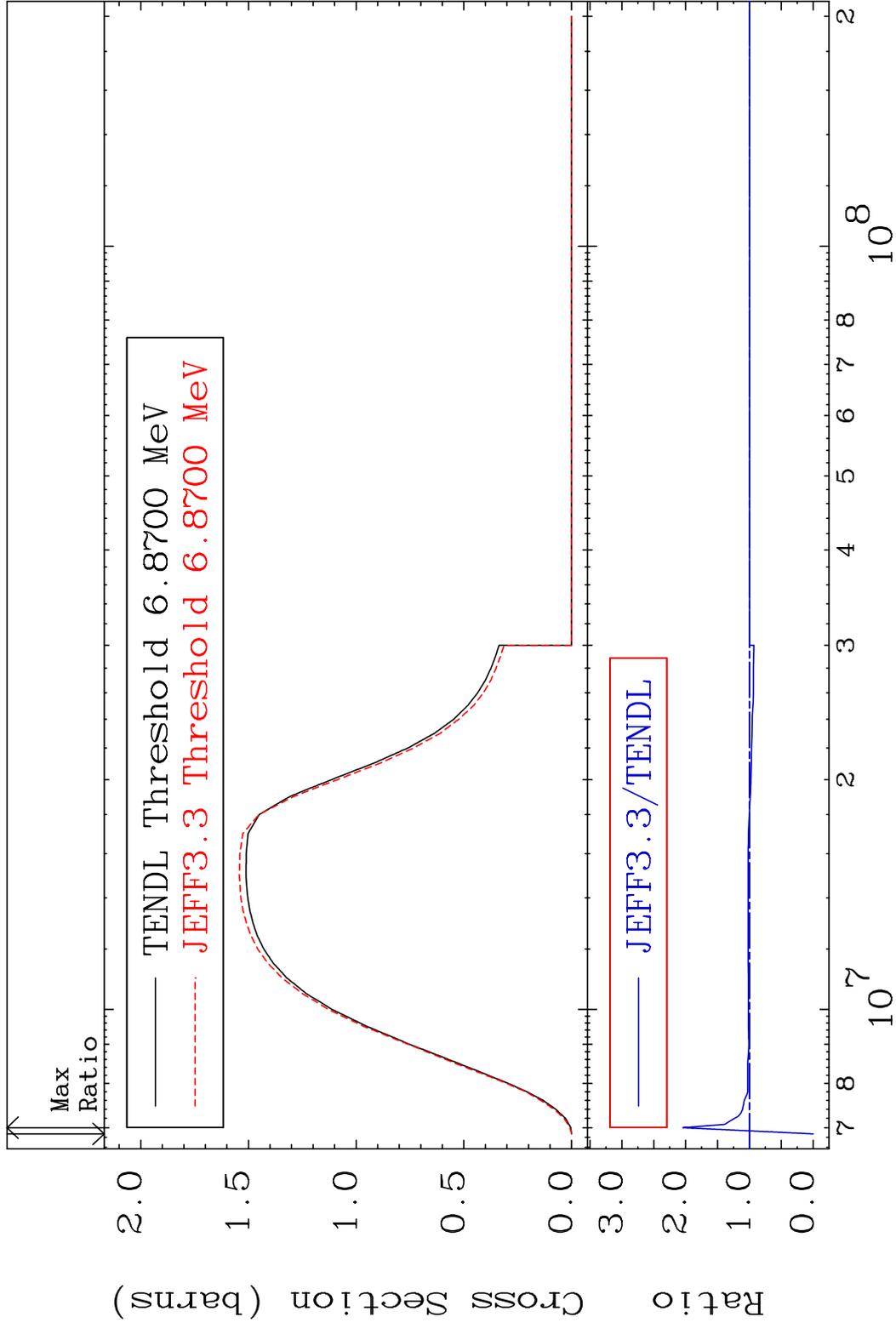
MAT 4440 Inelastic 44-Ru-101  
 Cross Section -100.0 To 3.291 %



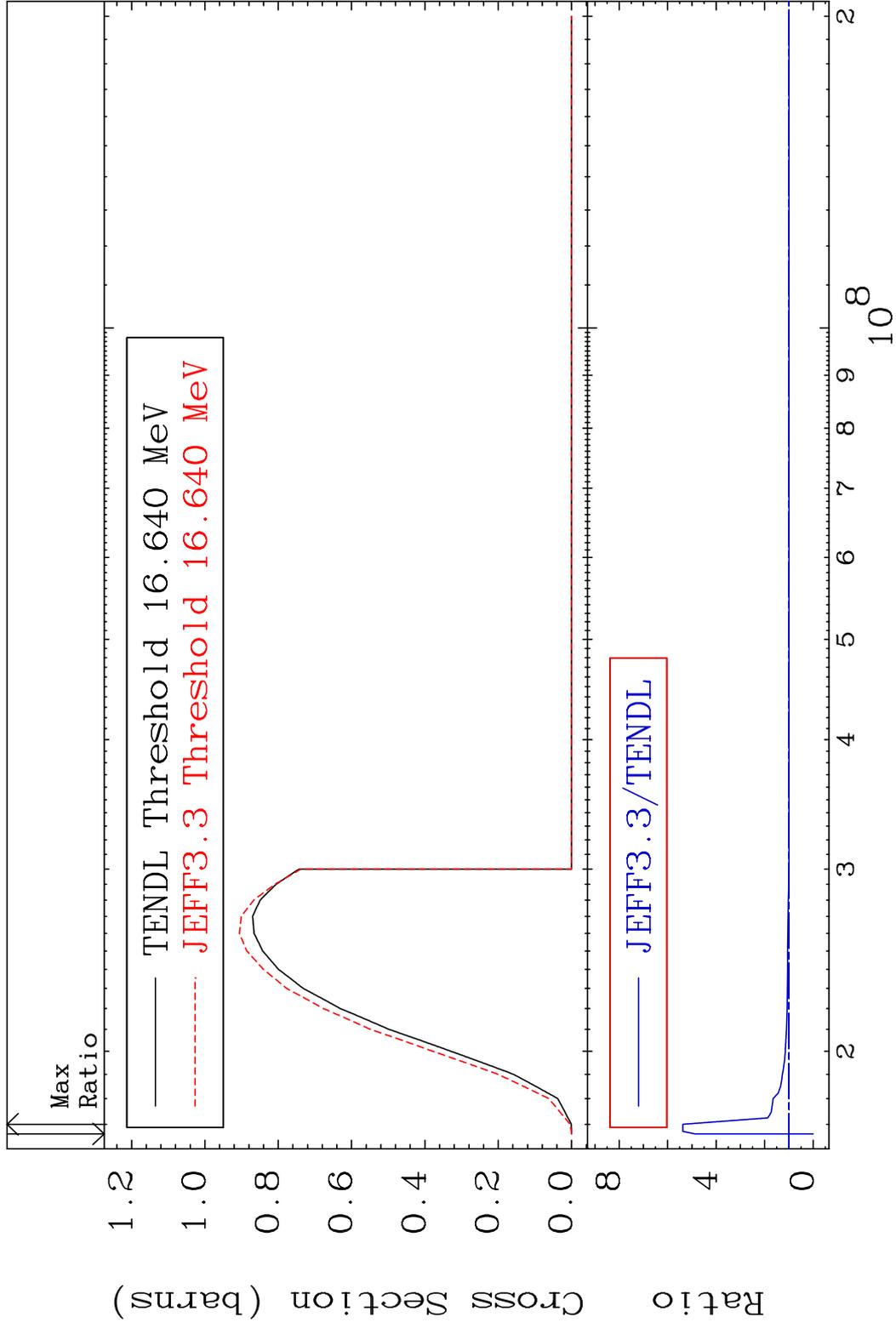
MAT 4440 (n,2n) d 44-Ru-101  
 Cross Section 0.000 To 9999. %



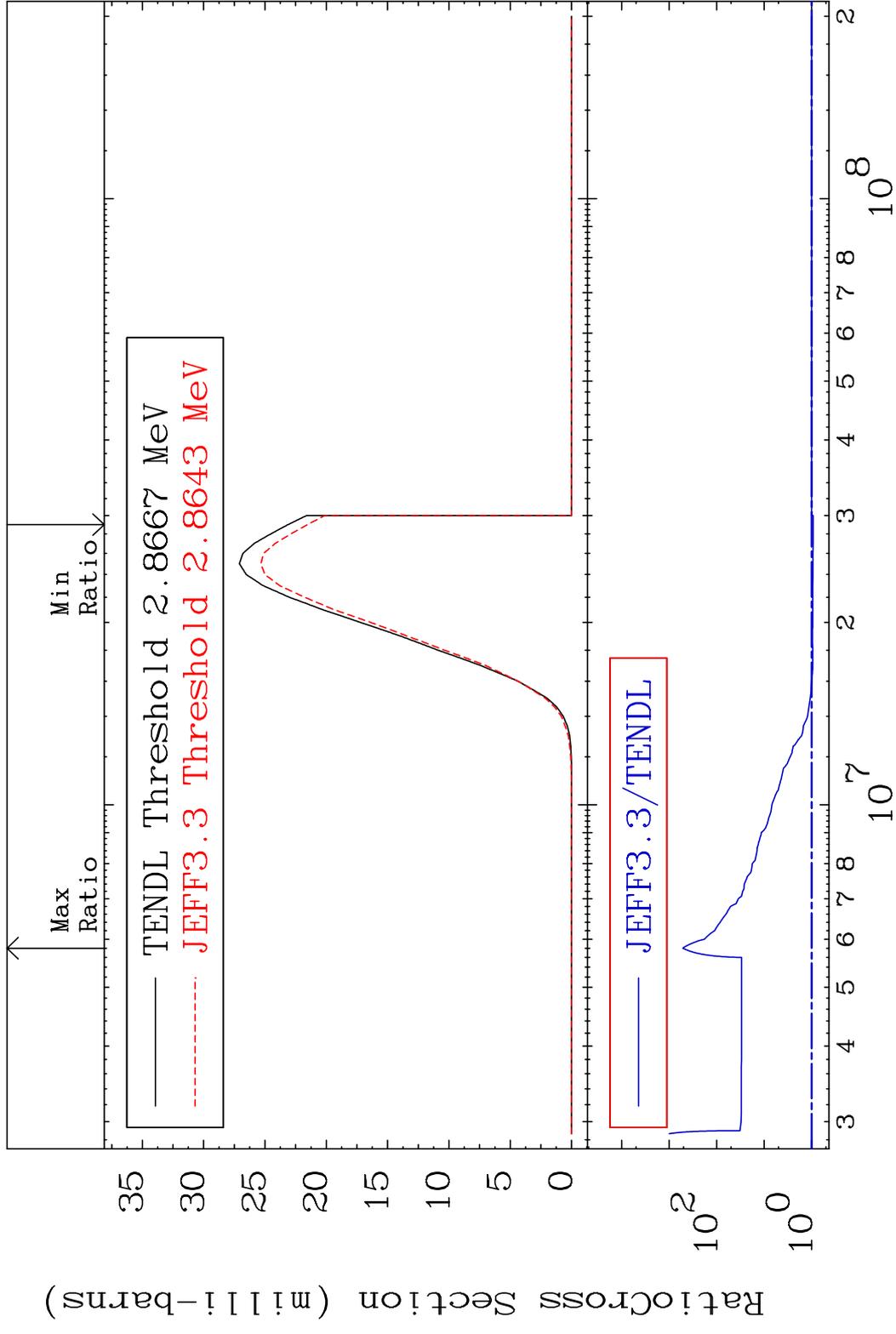
MAT 4440 (n,2n) 44-Ru-101  
 Cross Section -100.0 To 104.4 %



MAT 4440 (n,3n) 44-Ru-101  
 Cross Section -100.0 To 437.4 %



MAT 4440 (n, n')  $\alpha$  44-Ru-101  
 Cross Section -6.863 To 9999. %

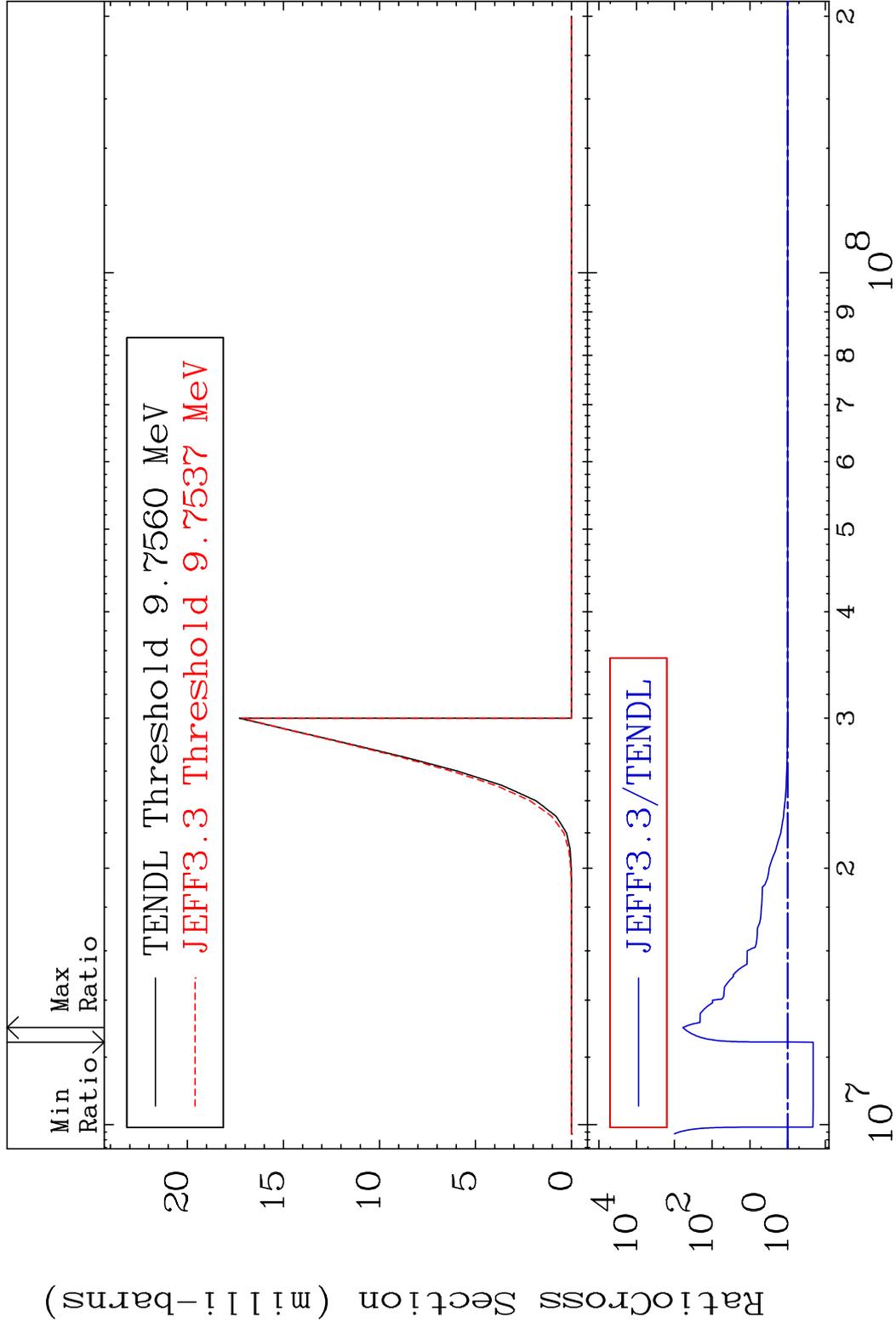


MAT 4440

(n,2n)  $\alpha$

44-Ru-101

Cross Section -78.92 To 9999. %

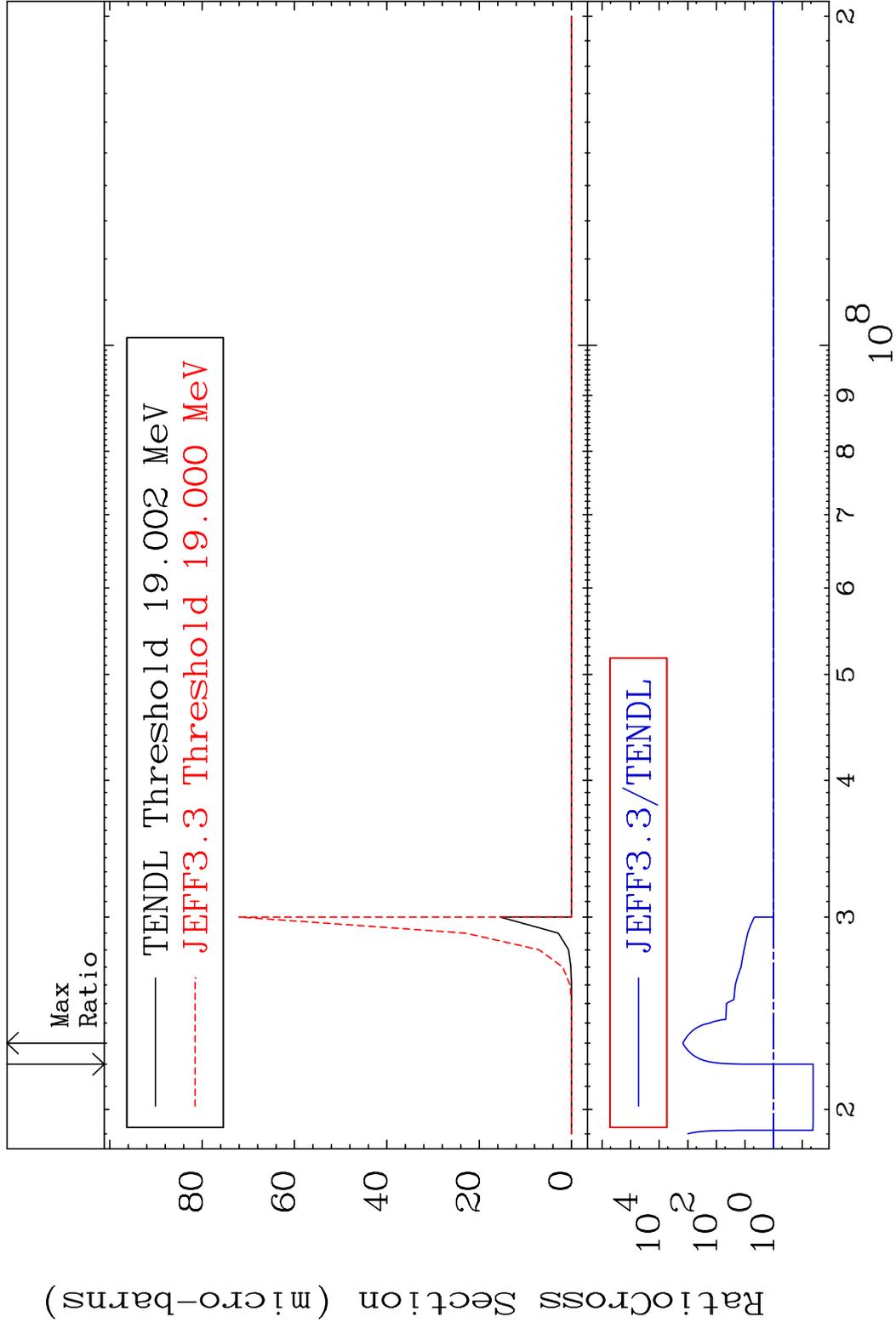


8

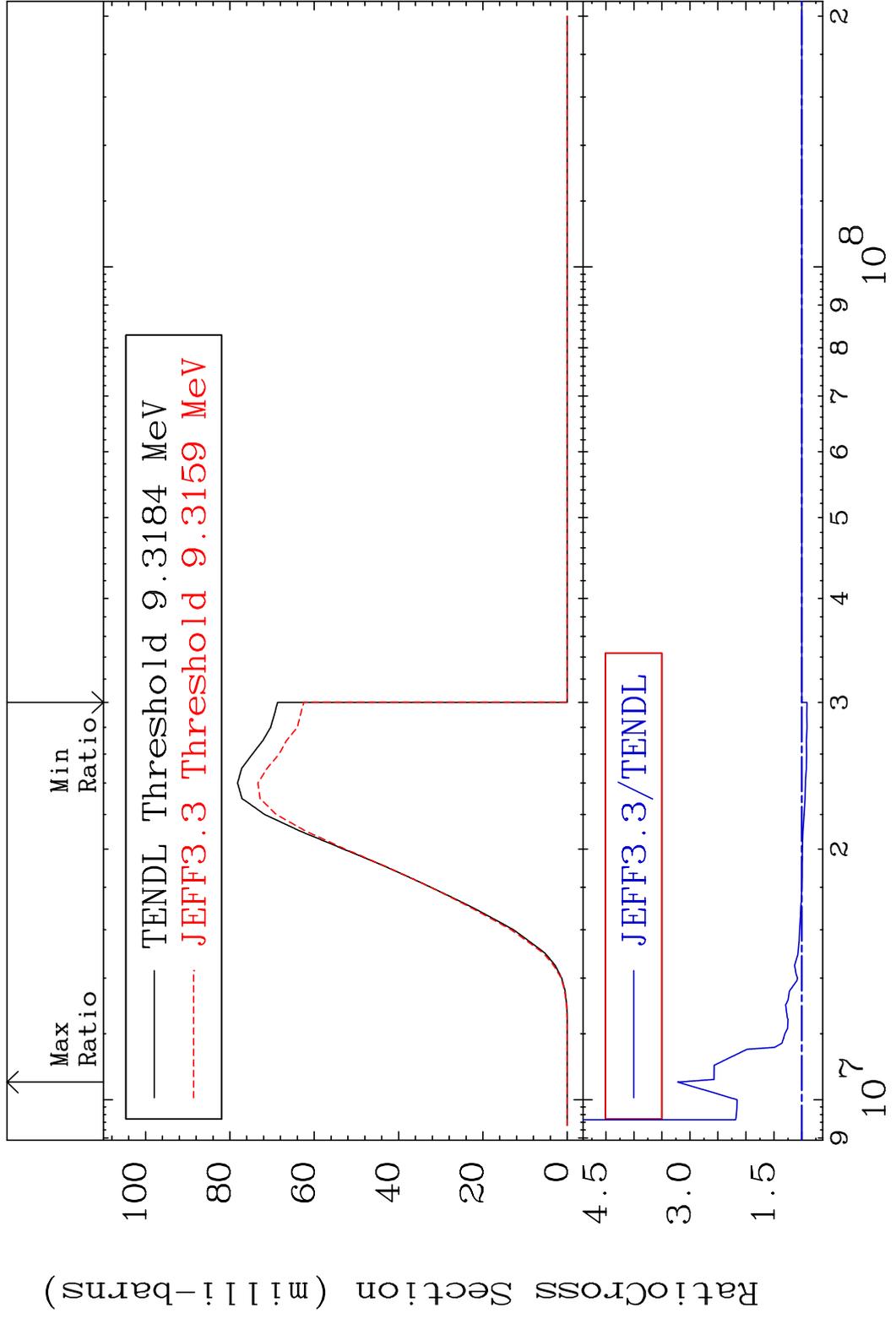
Incident Energy (eV)

44-Ru-101

MAT 4440 (n,3n)  $\alpha$  44-Ru-101  
 Cross Section -95.86 To 9999. %

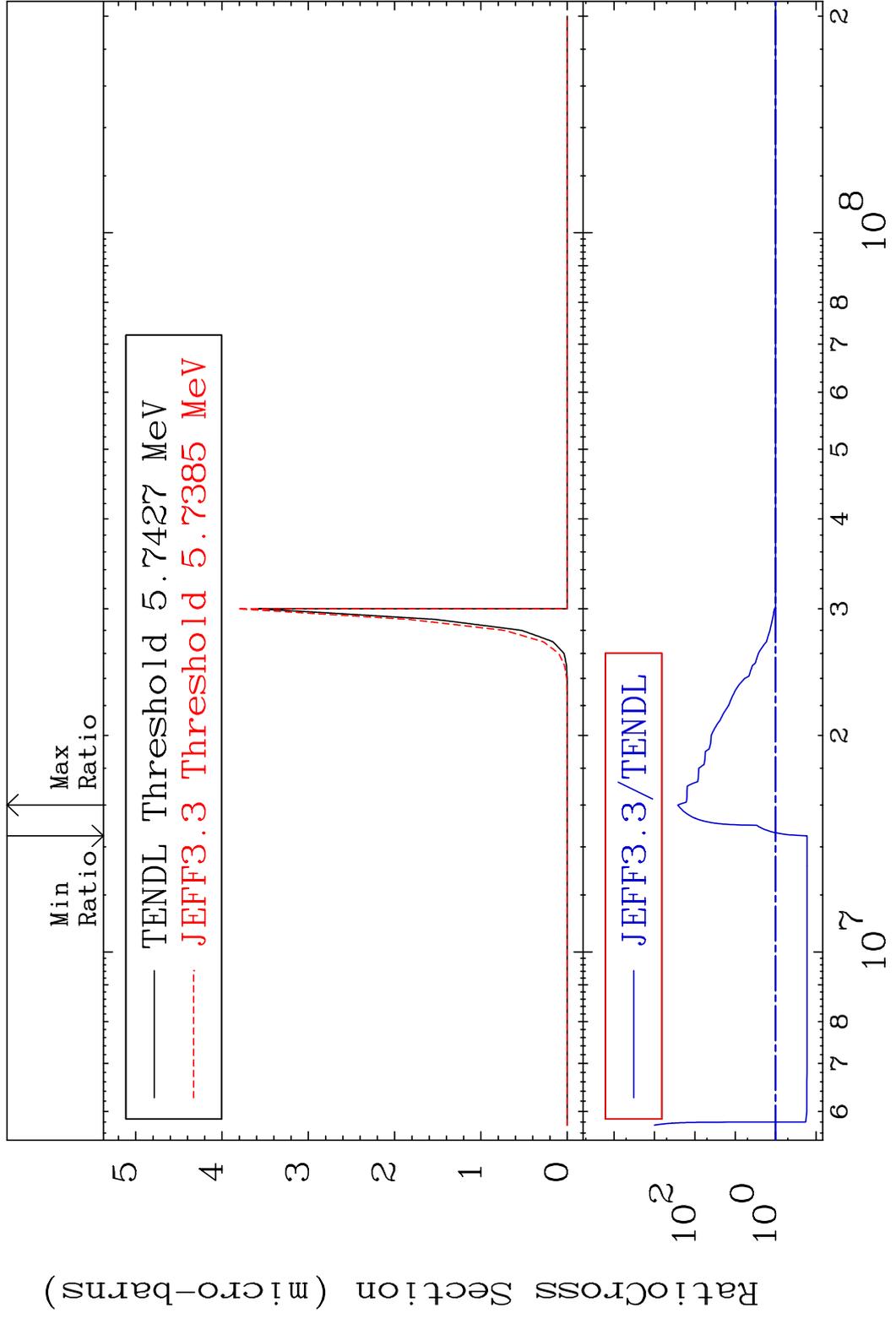


MAT 4440 (n, n') p 44-Ru-101  
 Cross Section -9.080 To 221.8 %



10 44-Ru-101

MAT 4440 (n, n') 2α 44-Ru-101  
 Cross Section -83.25 To 9999. %

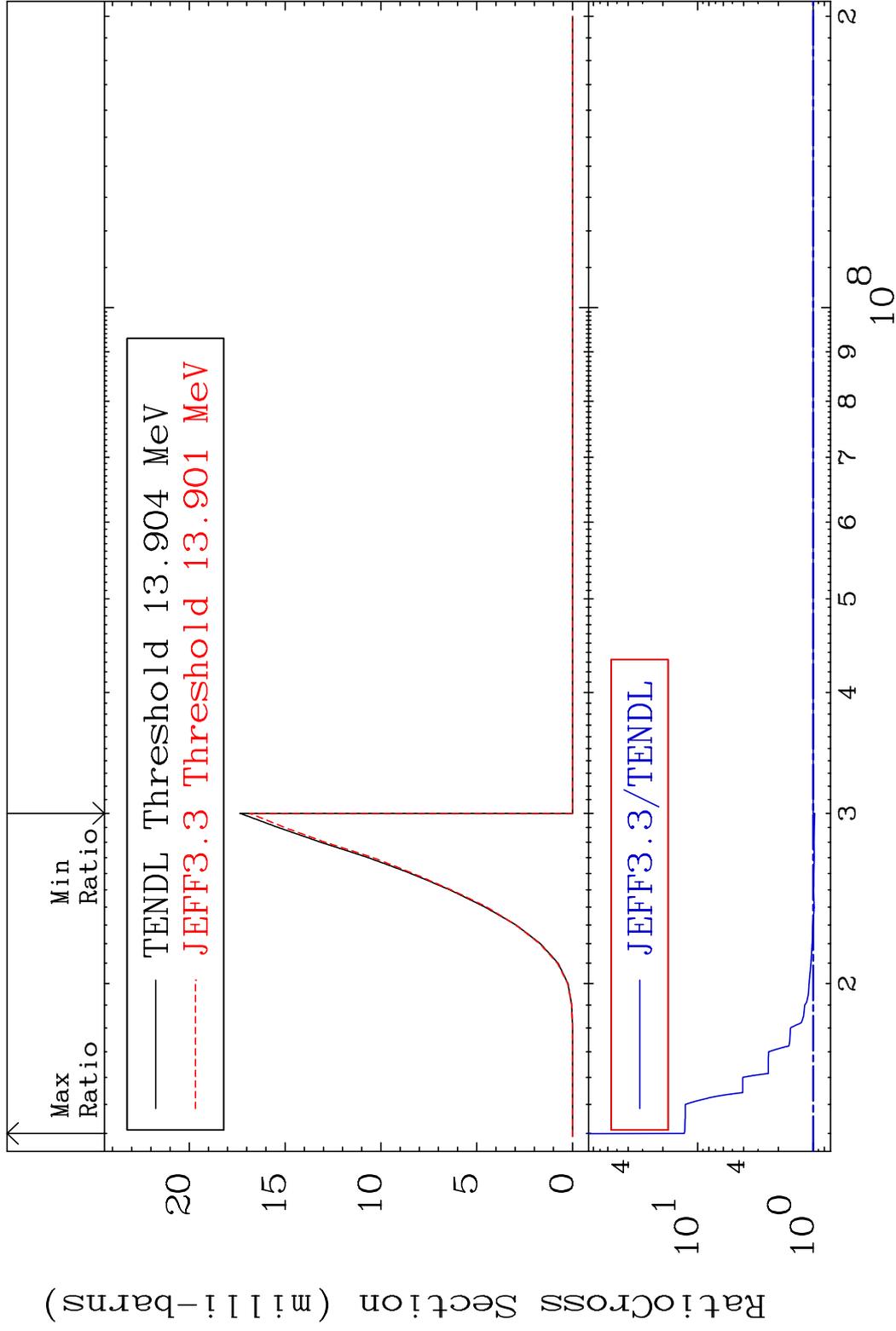


MAT 4440

(n, n') d

44-Ru-101

Cross Section -2.985 To 1209. %



12

Incident Energy (eV)

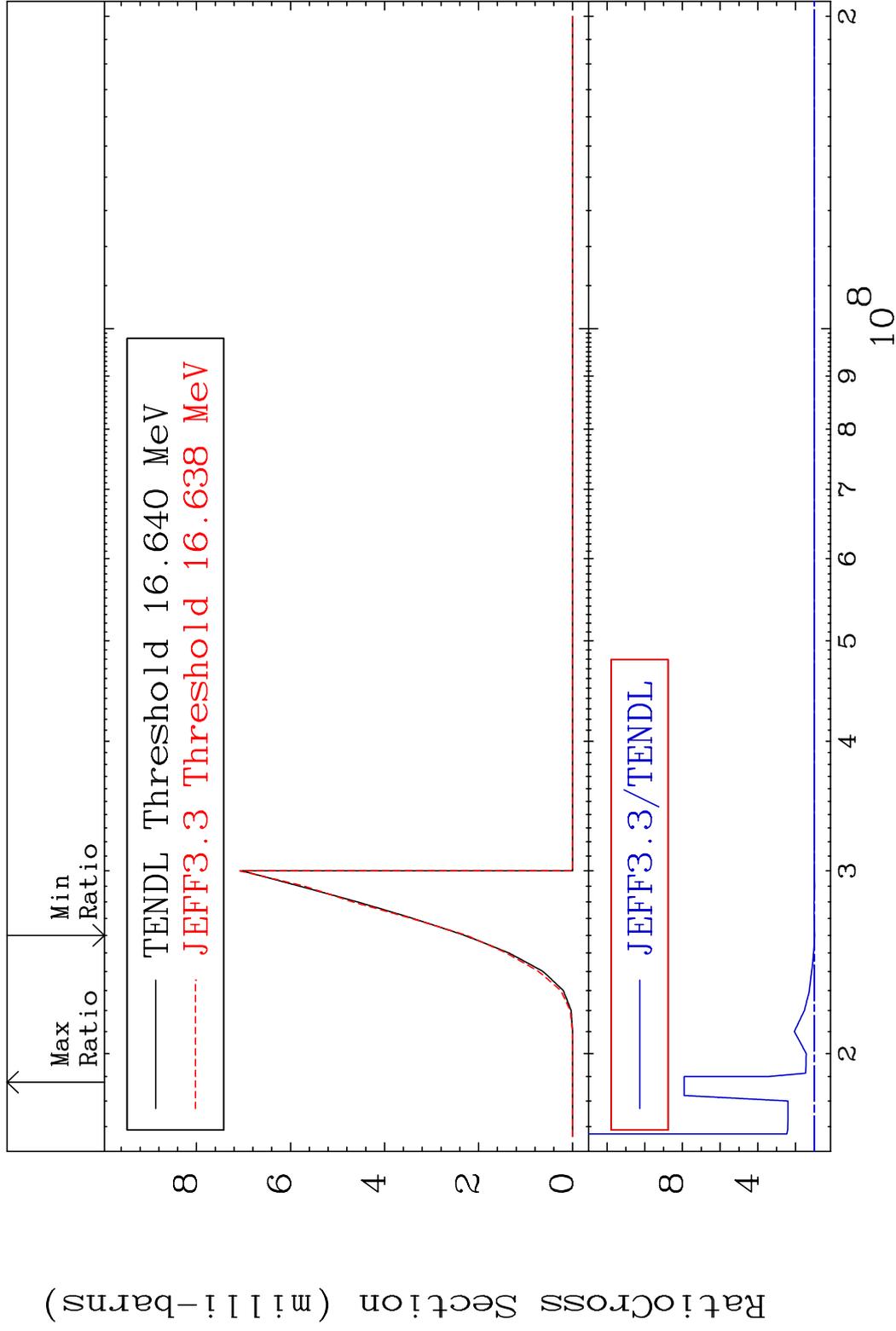
44-Ru-101

MAT 4440

(n, n') t

44-Ru-101

Cross Section -1.764 To 691.0 %



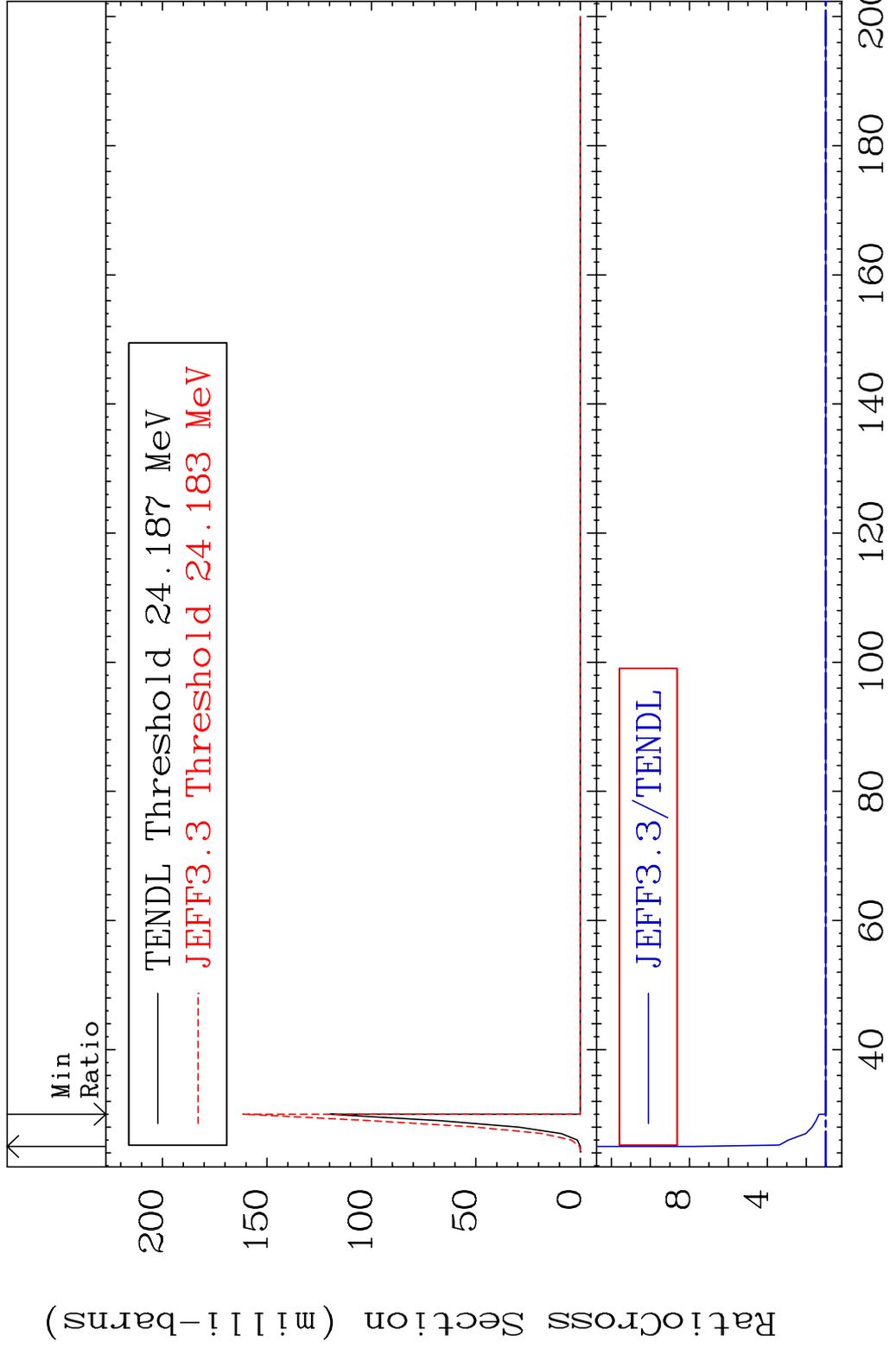
13

Incident Energy (eV)

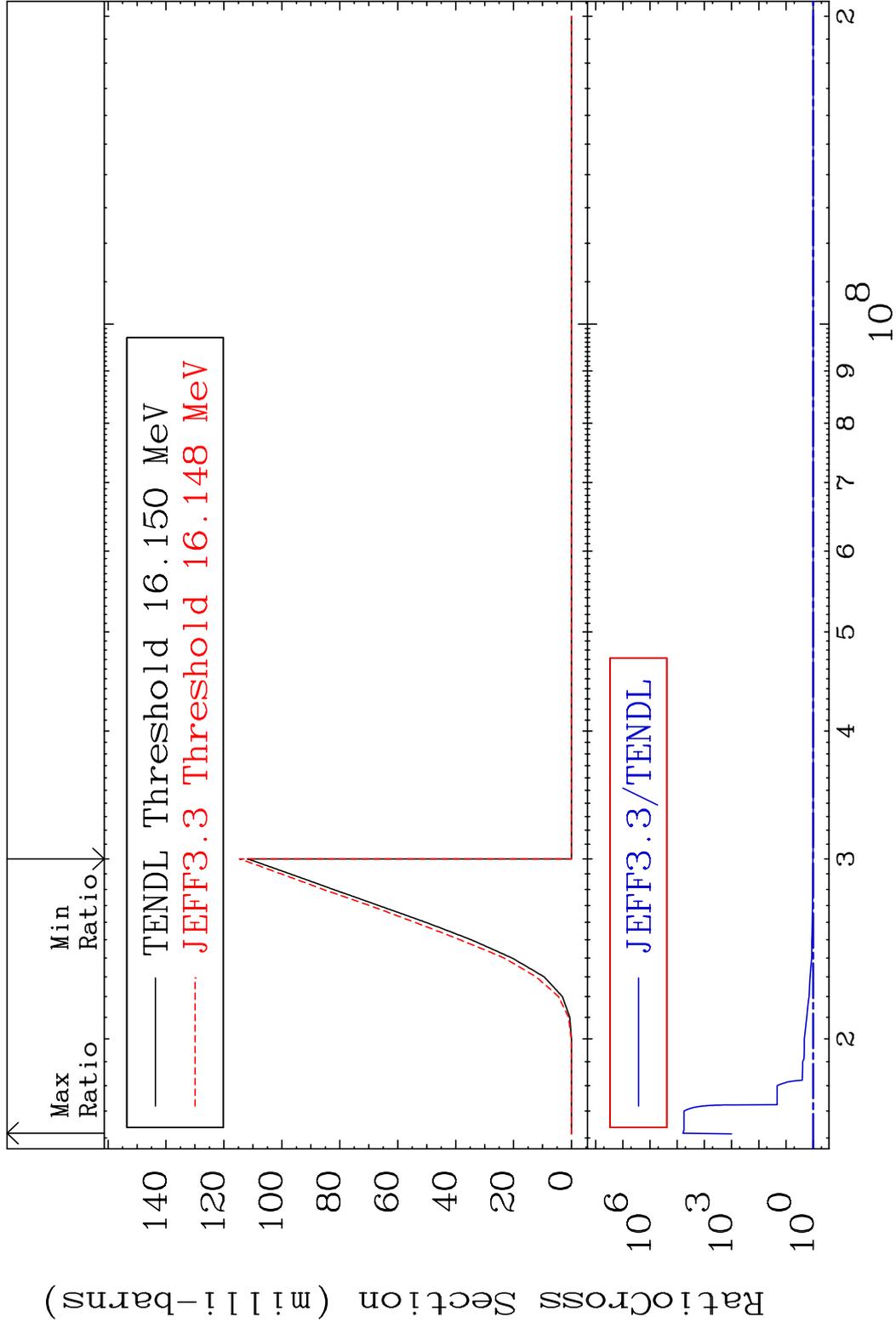
44-Ru-101



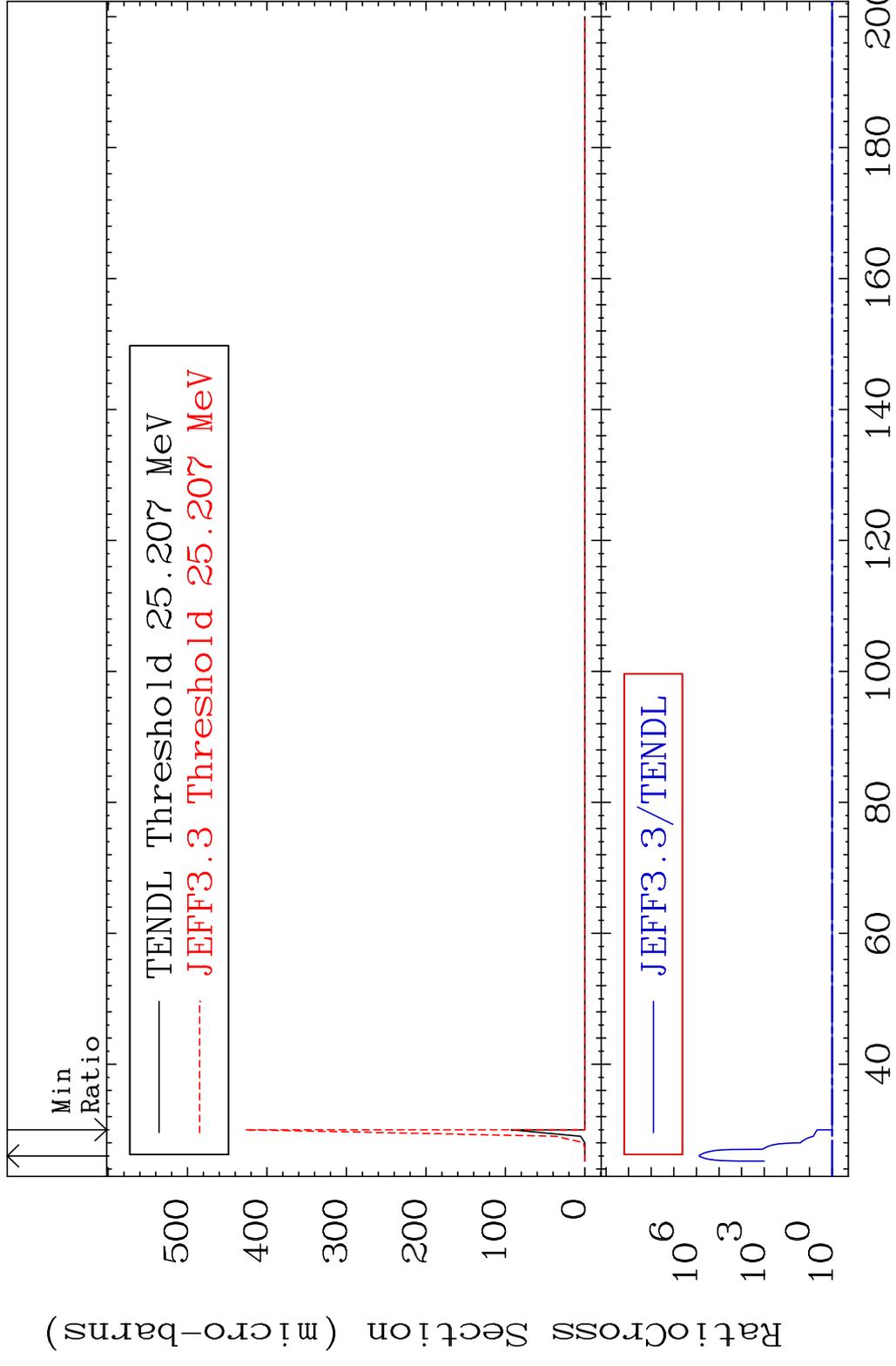
MAT 4440 (n,4n) 44-Ru-101  
Cross Section 0.000 To 679.4 %



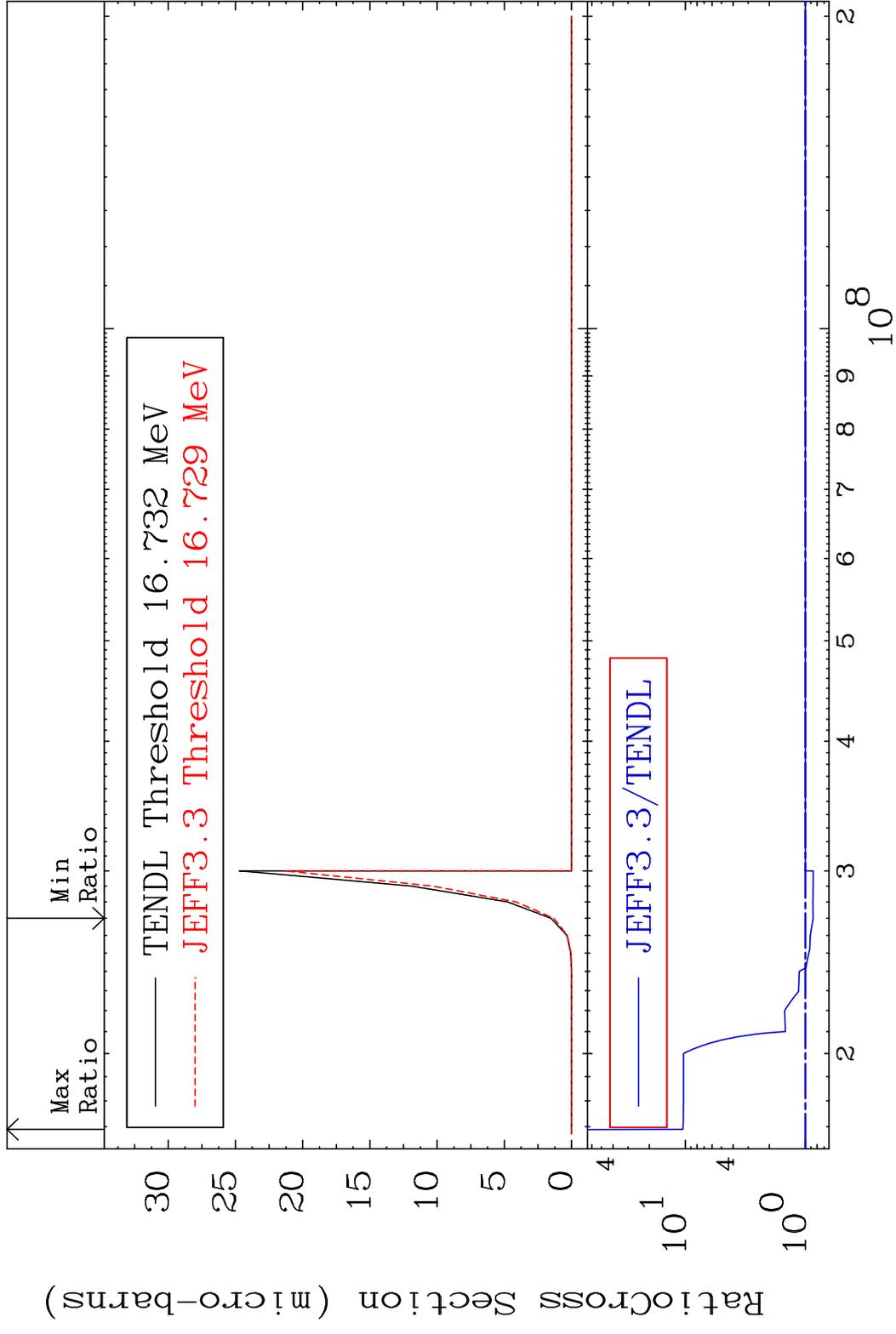
MAT 4440 (n,2n) p 44-Ru-101  
 Cross Section 0.000 To 9999. %



MAT 4440 (n,3n) p 44-Ru-101  
 Cross Section 0.000 To 9999. %



MAT 4440 (n,2n) p 44-Ru-101  
 Cross Section -13.59 To 949.9 %

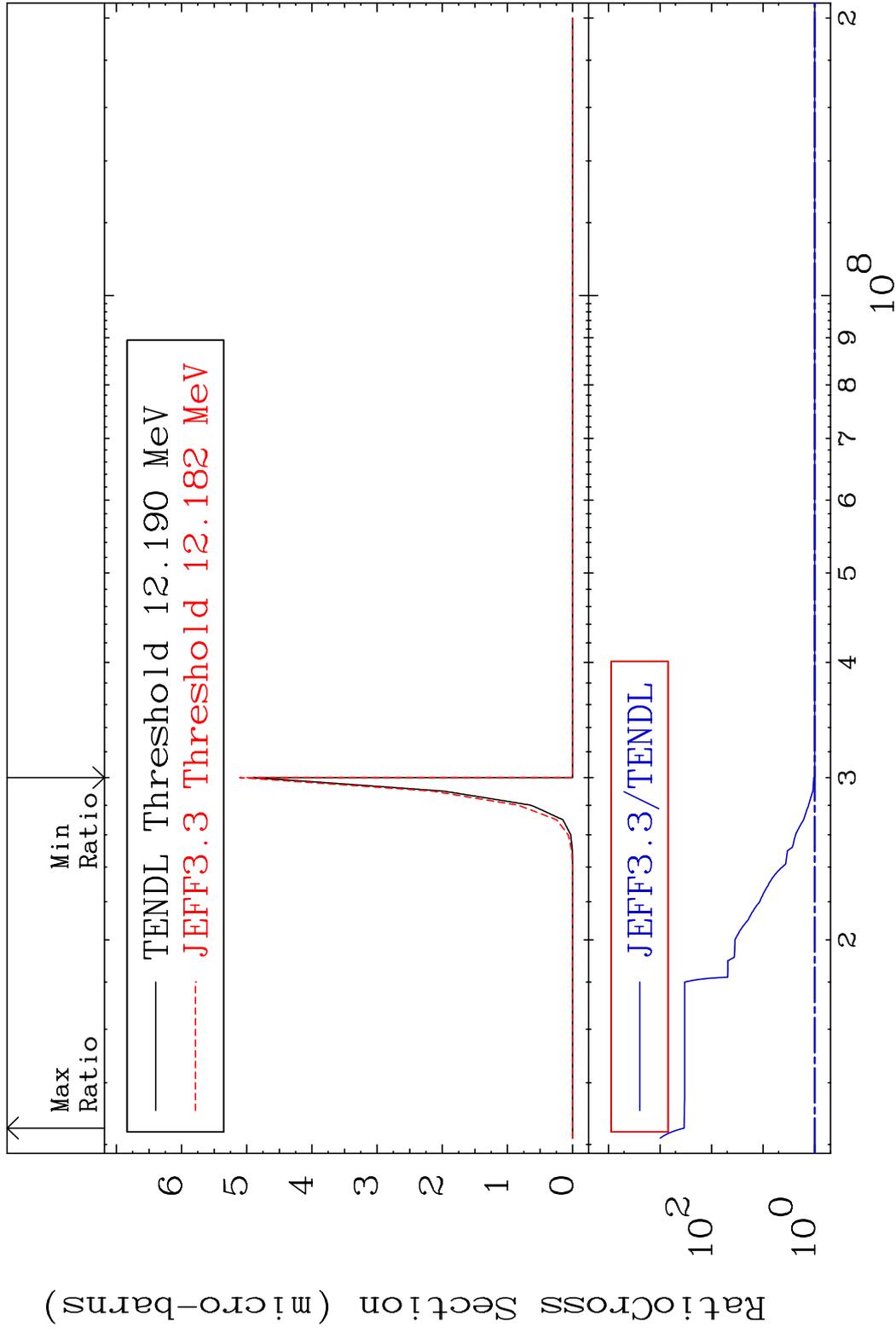


MAT 4440

(n,n') p  $\alpha$

44-Ru-101

Cross Section 0.000 To 9999. %

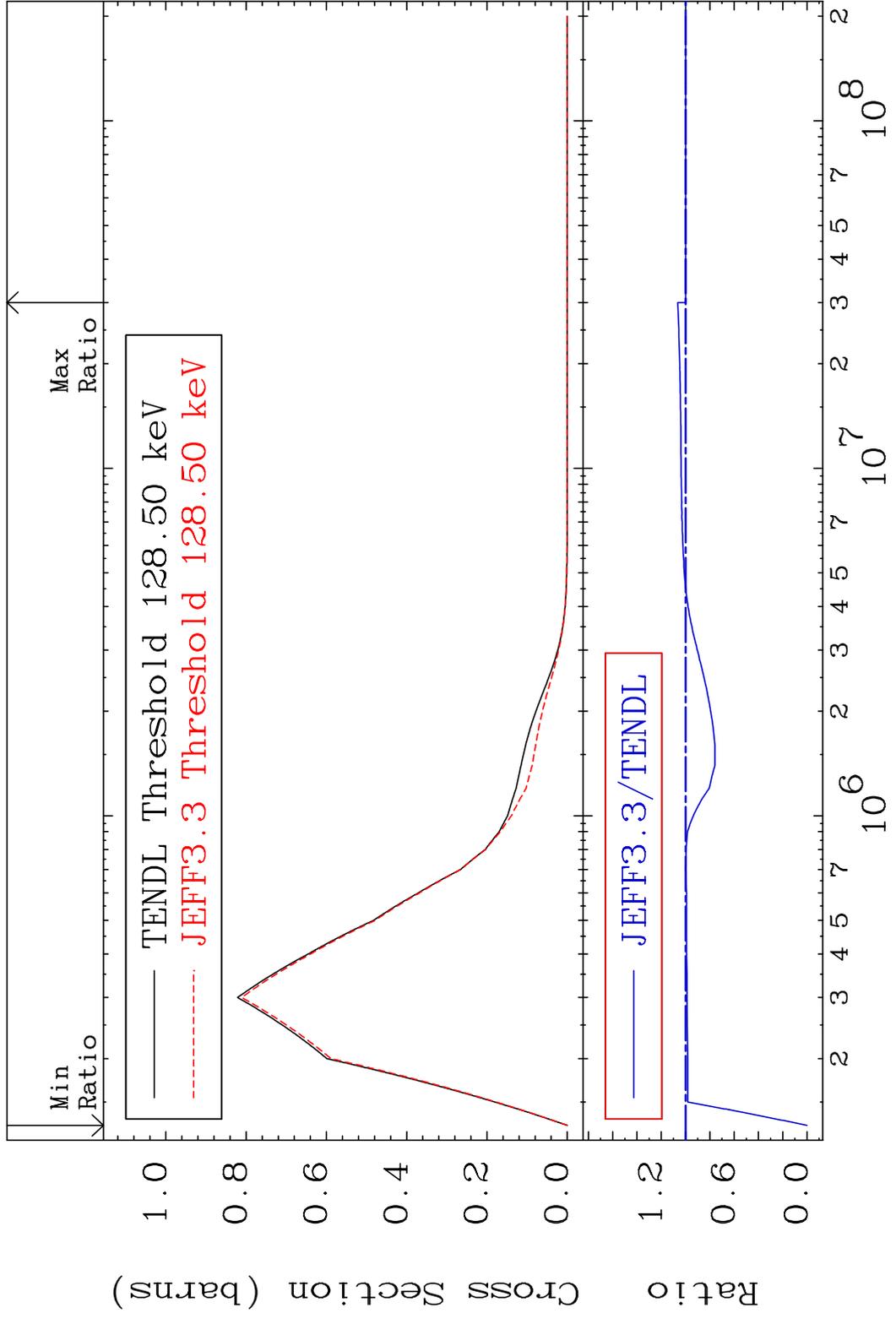


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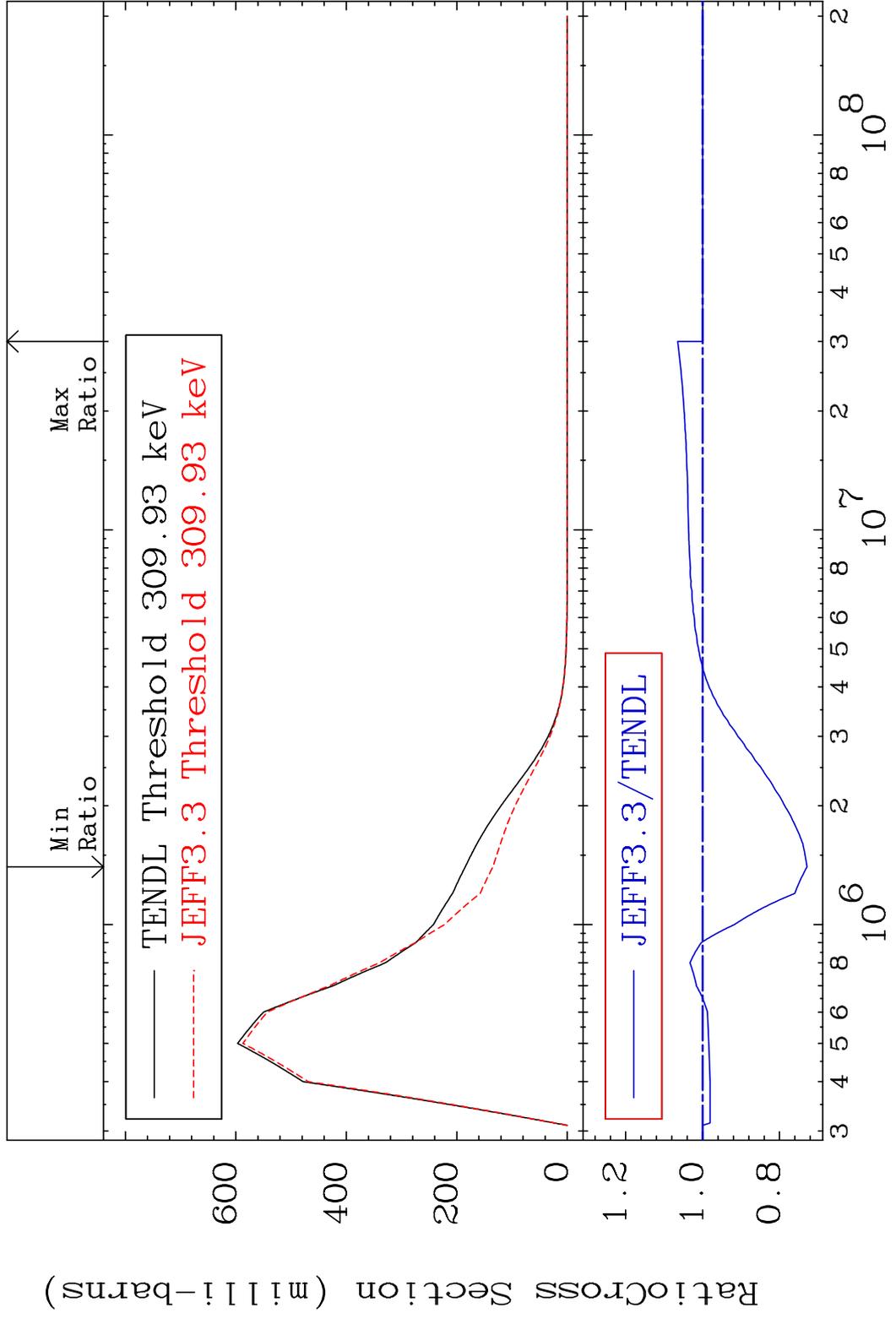
Incident Energy (eV)

44-Ru-101

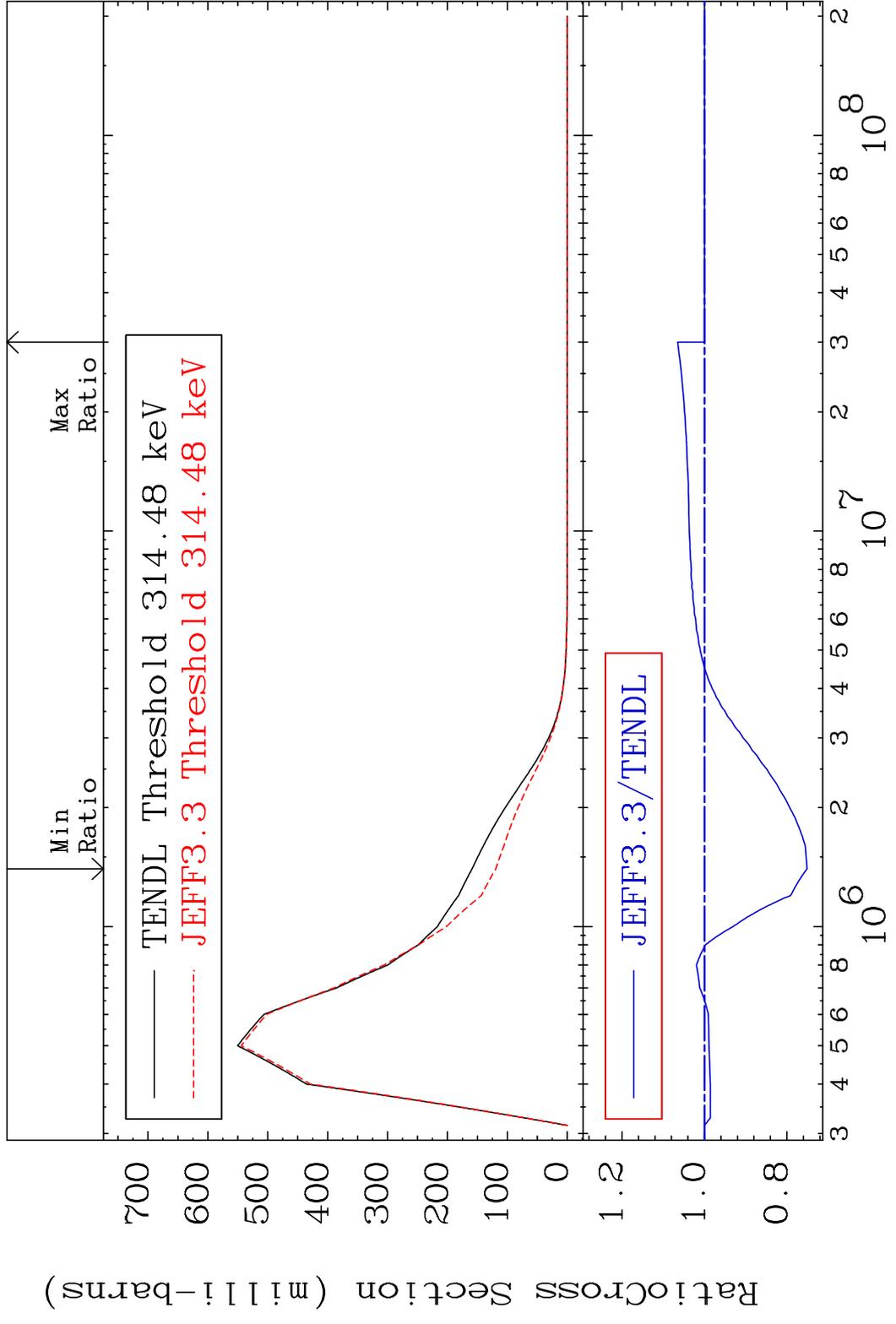
MAT 4440 MT= 51 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 6.493 %



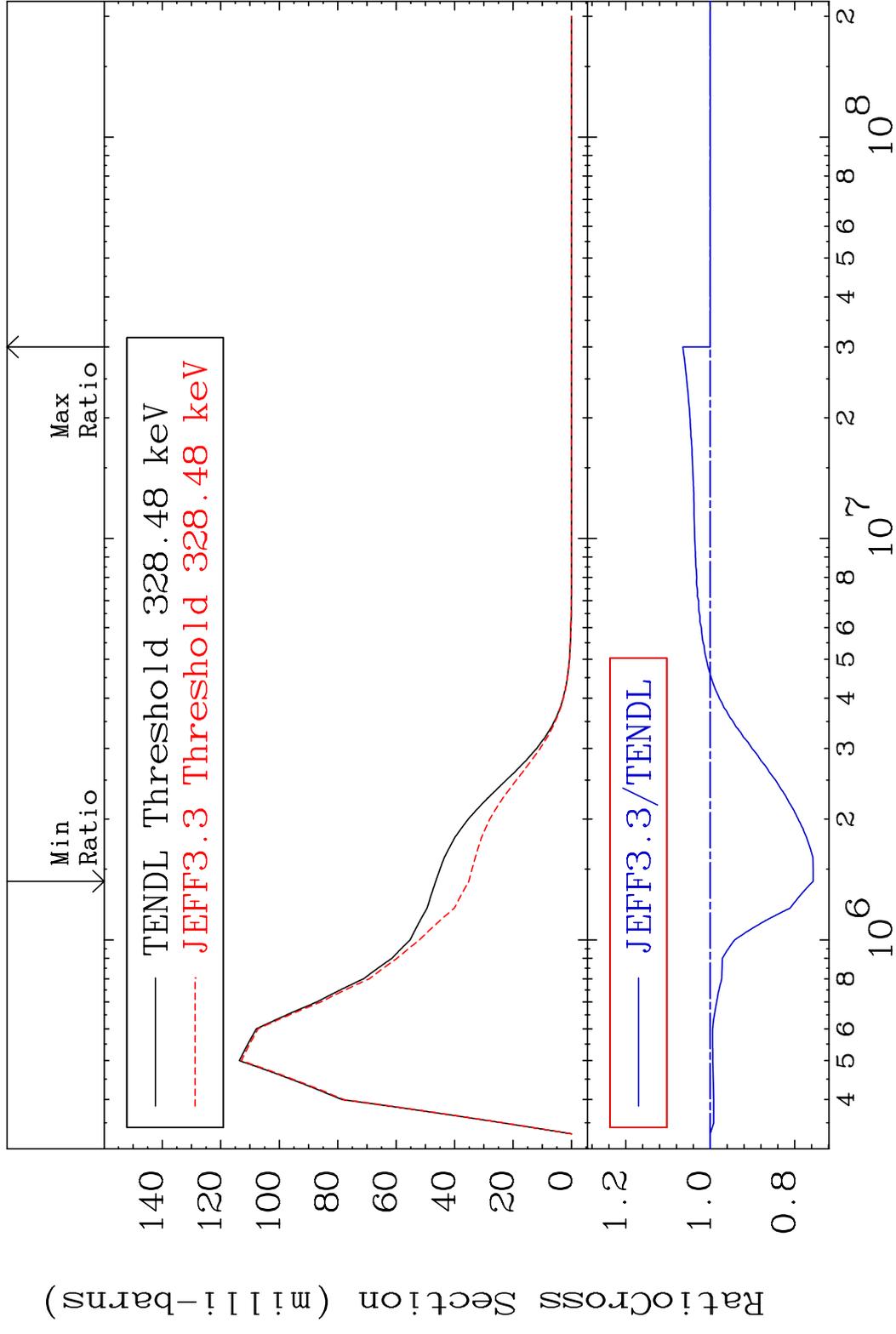
MAT 4440 MT= 52 (n,n') Level 44-Ru-101  
 Cross Section -27.15 To 6.485 %



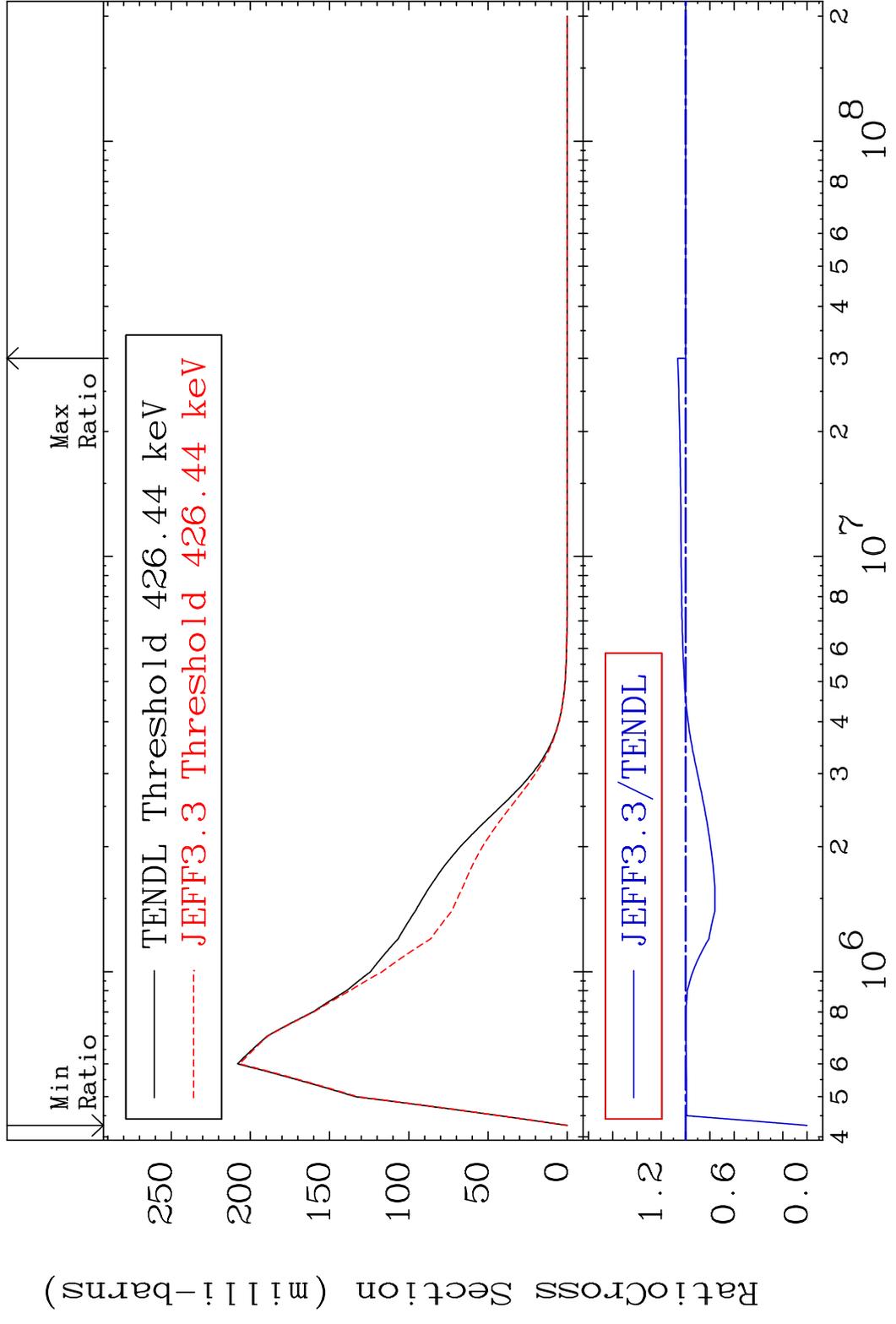
MAT 4440 MT= 53 (n, n') Level 44-Ru-101  
 Cross Section -24.88 To 6.490 %



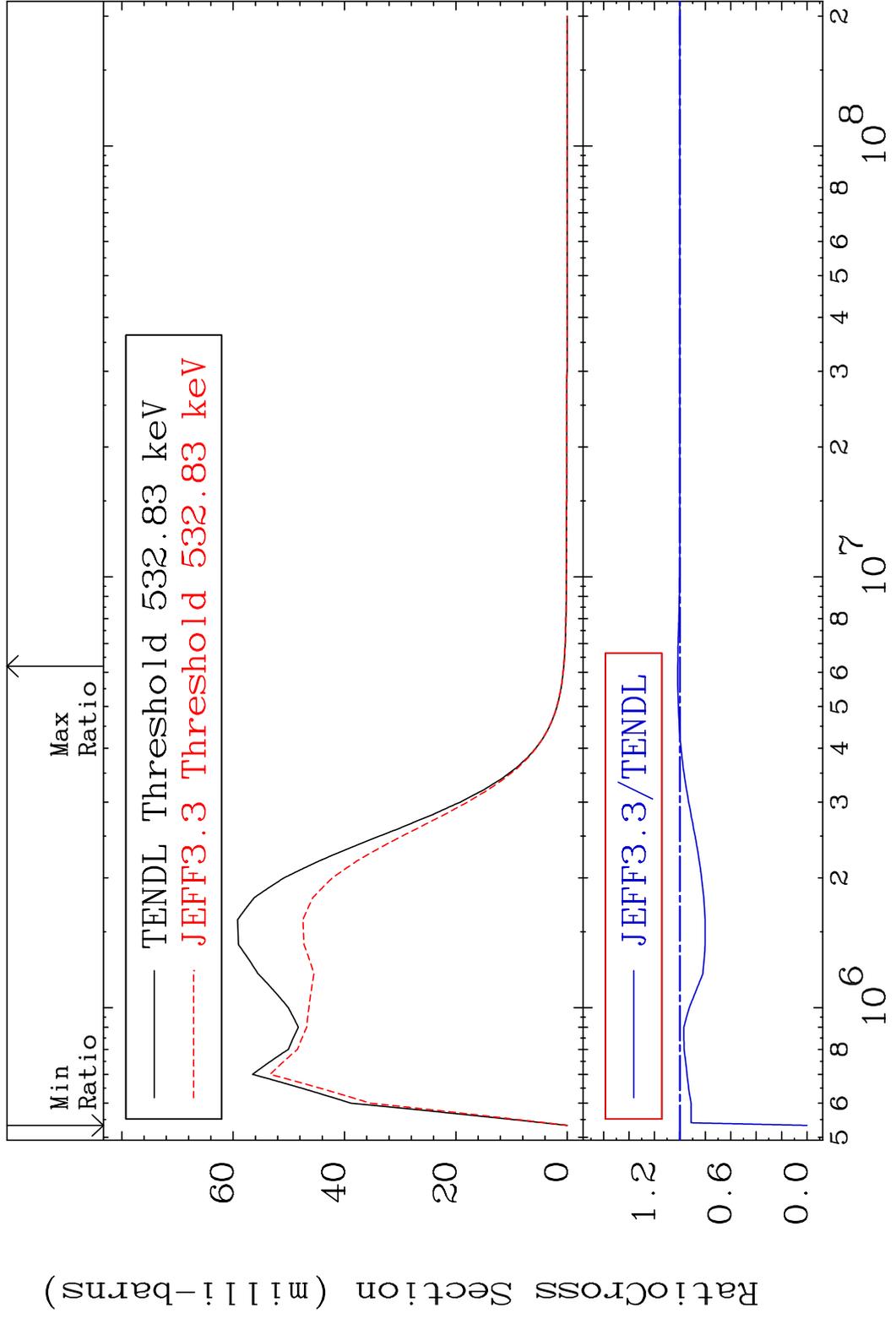
MAT 4440 MT= 54 (n, n') Level 44-Ru-101  
 Cross Section -24.37 To 6.496 %



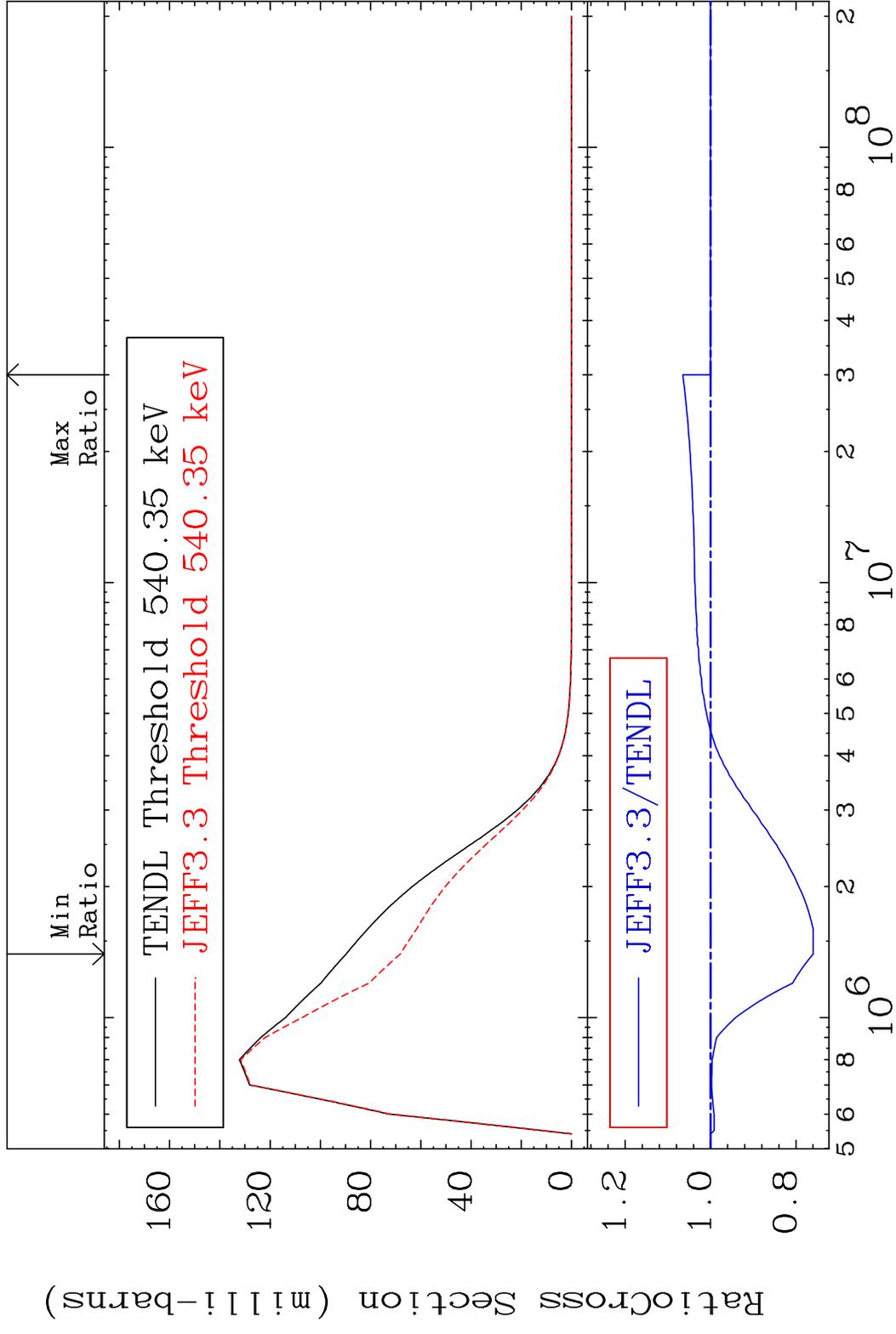
MAT 4440 MT= 55 (n,n') Level 44-Ru-101  
 Cross Section -100.0 To 6.494 %



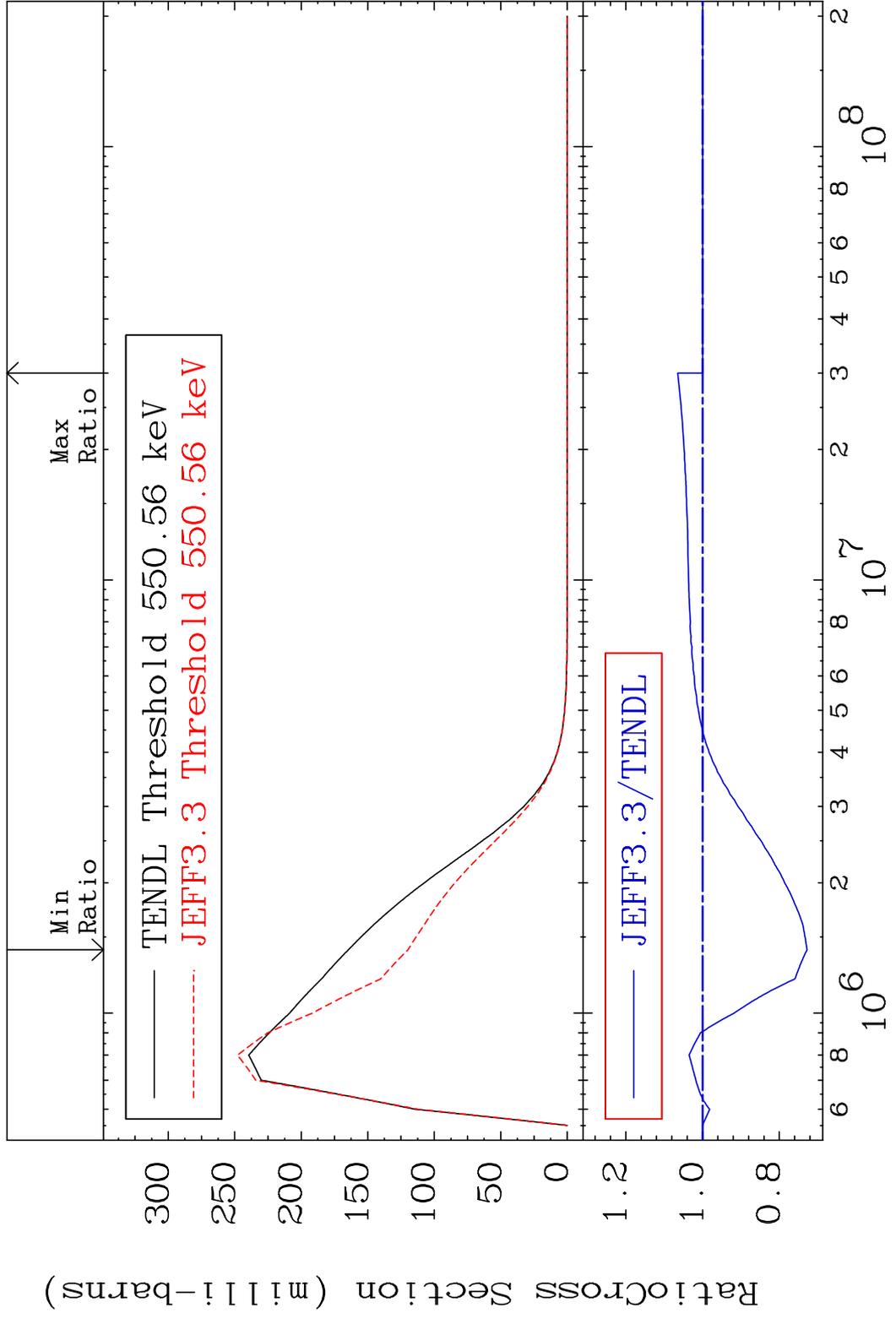
MAT 4440 MT= 56 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 1.715 %



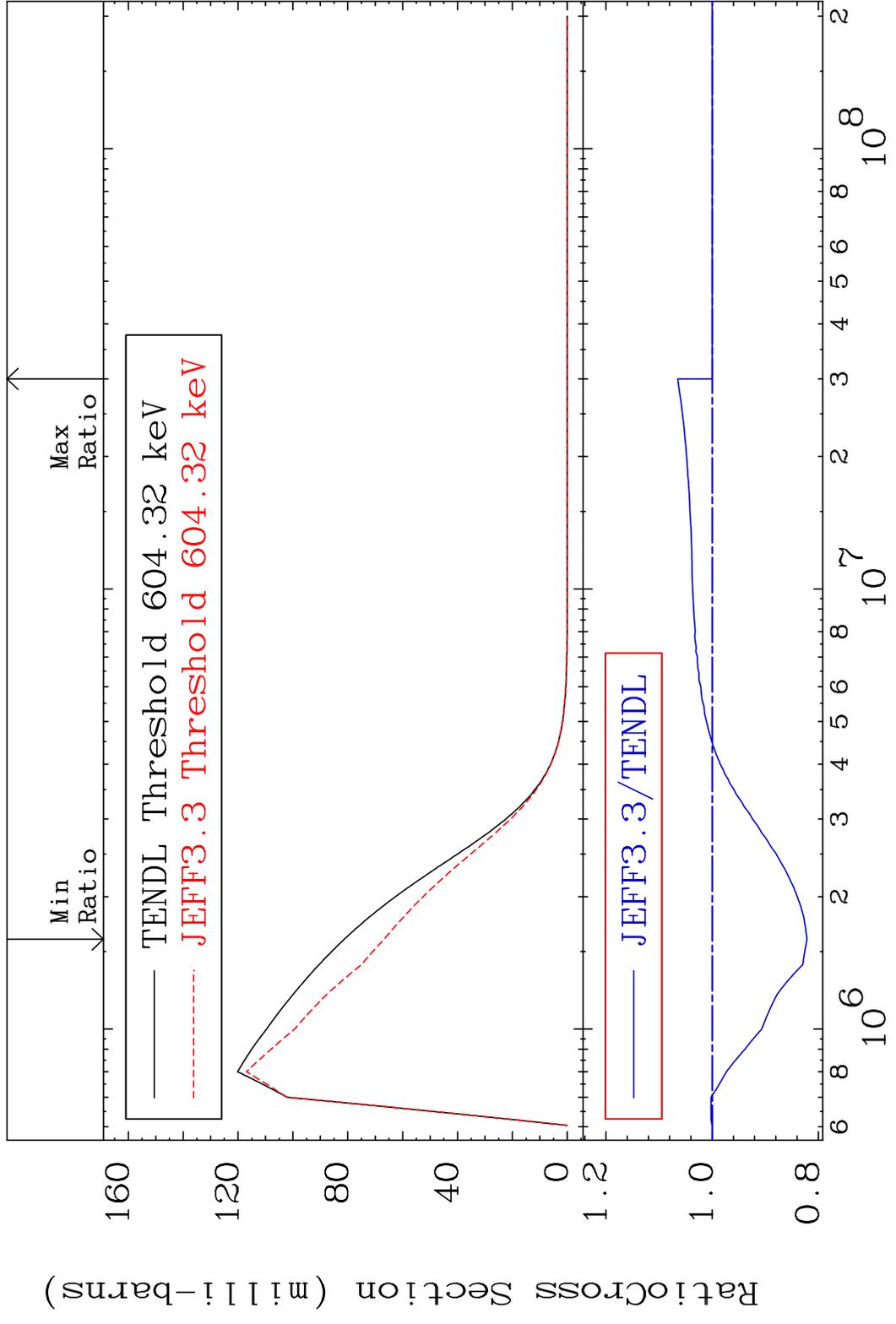
MAT 4440 MT= 57 (n, n') Level 44-Ru-101  
 Cross Section -24.02 To 6.494 %



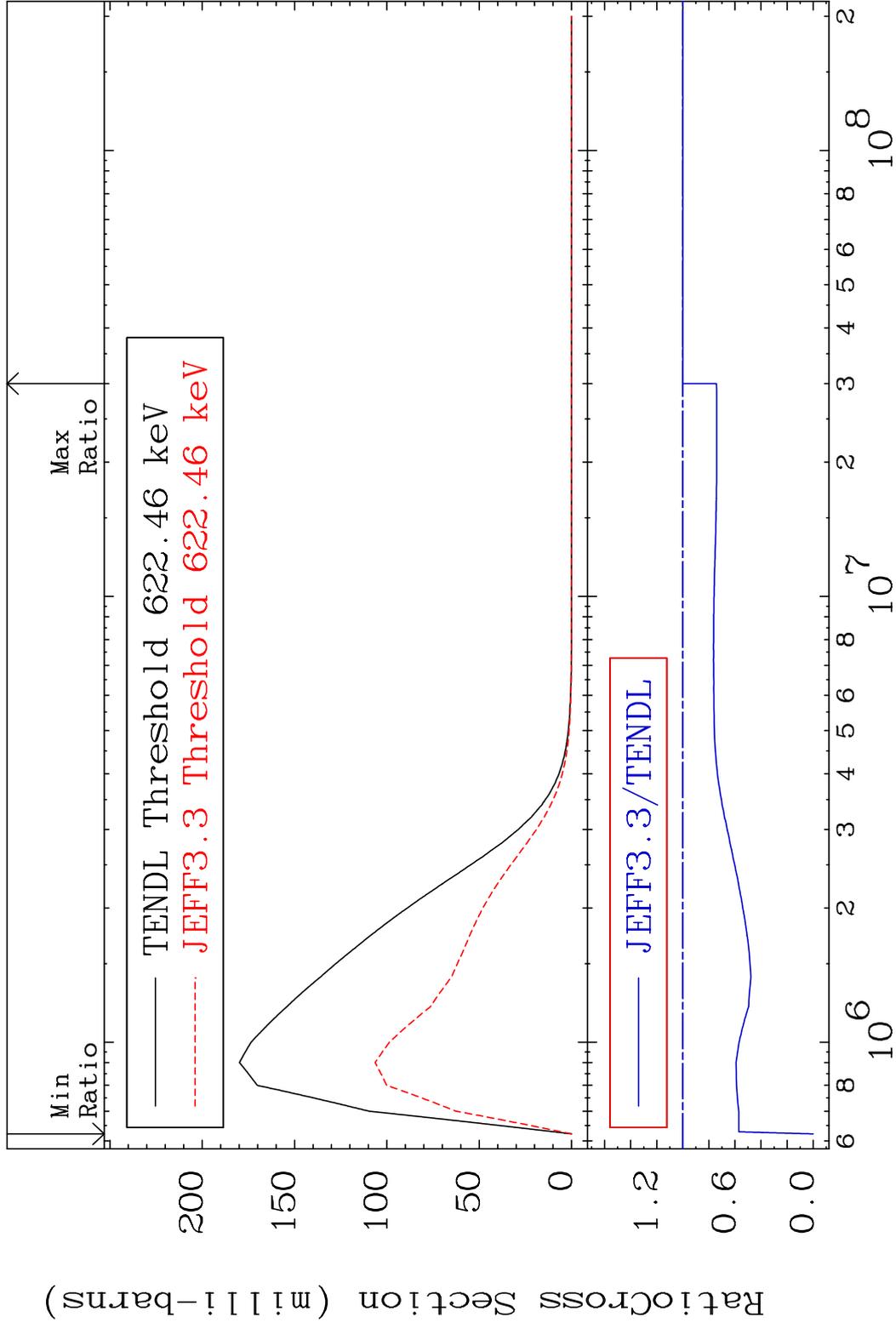
MAT 4440 MT= 58 (n, n') Level 44-Ru-101  
 Cross Section -27.22 To 6.485 %



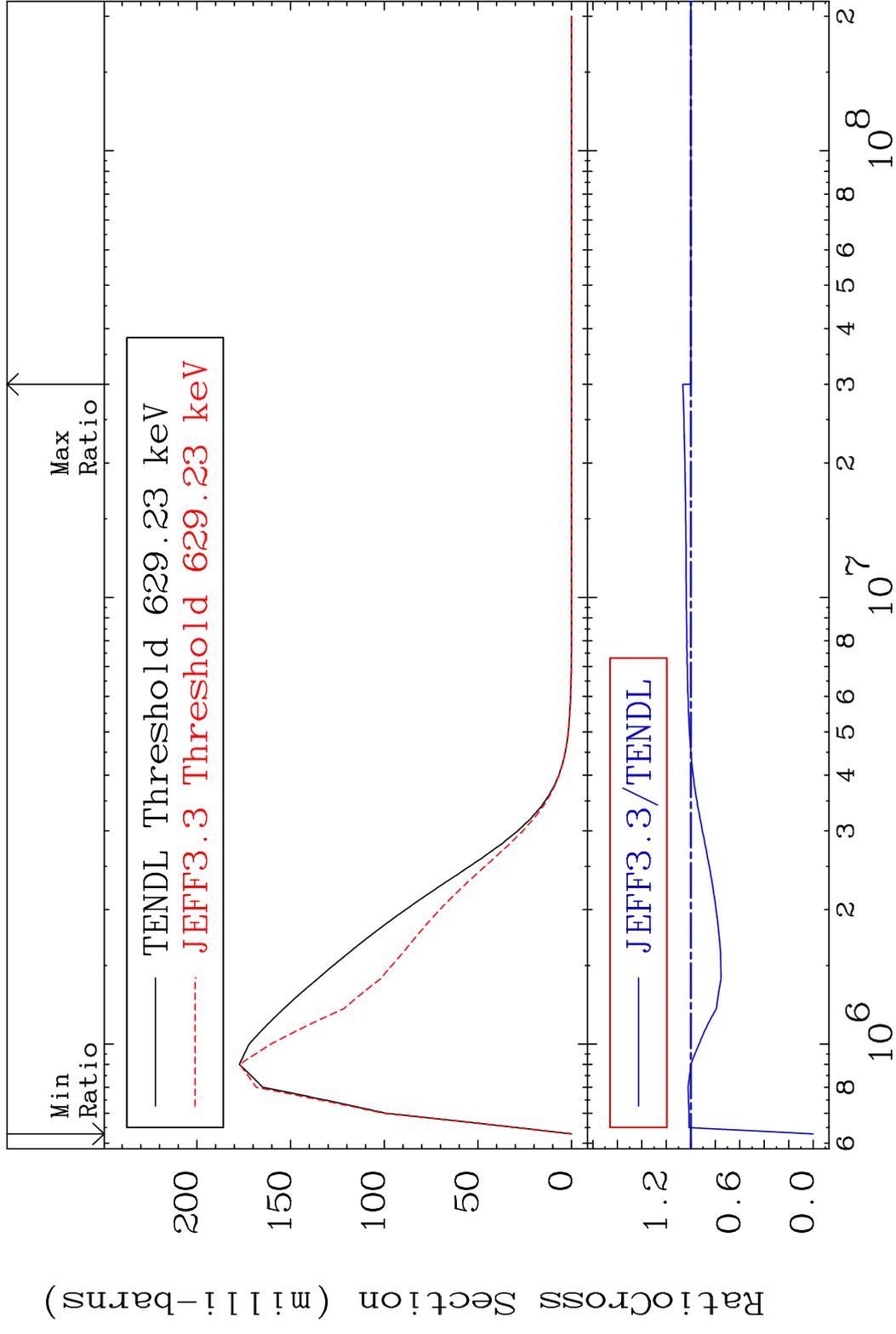
MAT 4440 MT= 59 (n, n') Level 44-Ru-101  
 Cross Section -17.88 To 6.491 %



MAT 4440 MT= 60 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 0.000 %

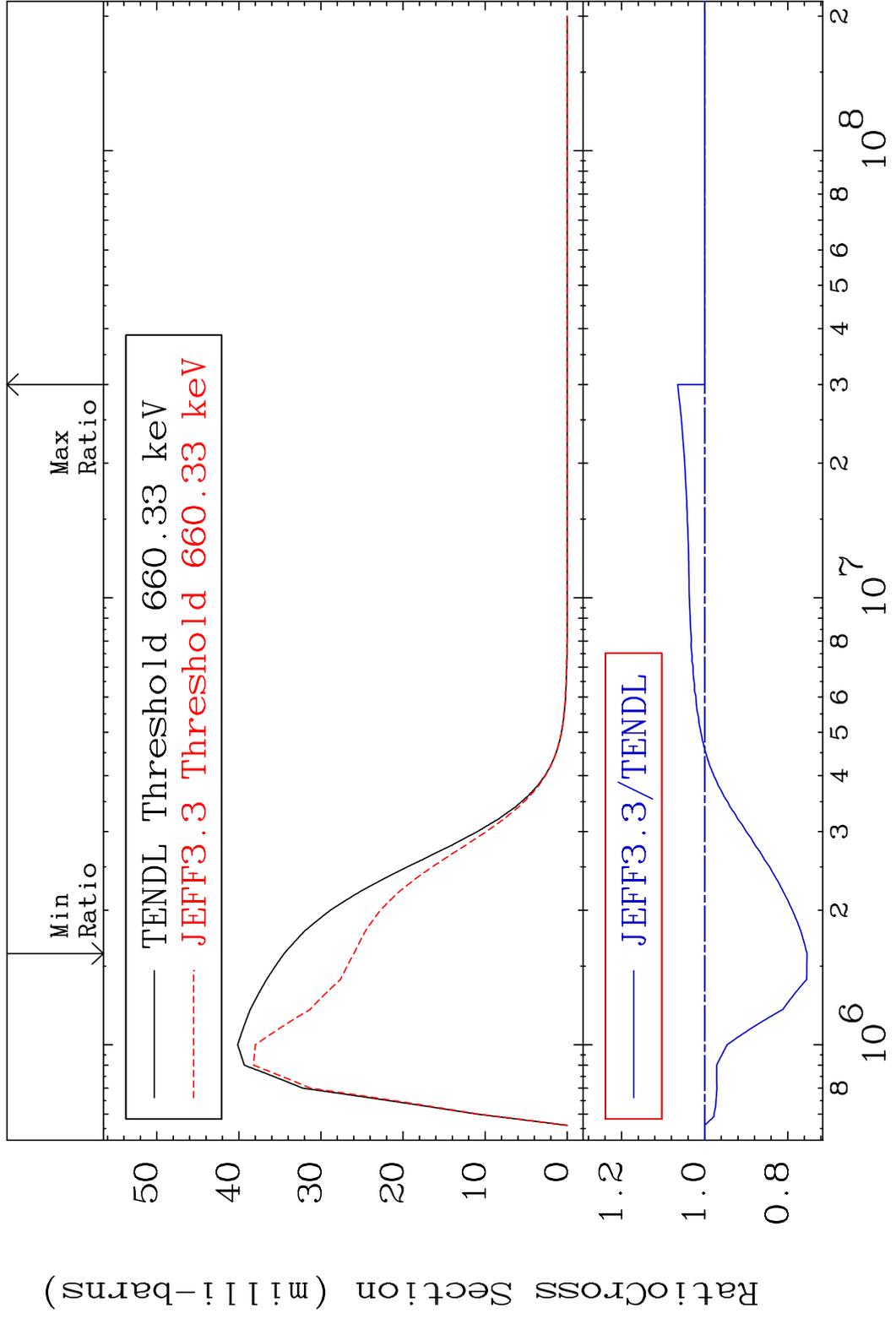


MAT 4440 MT= 61 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 6.490 %

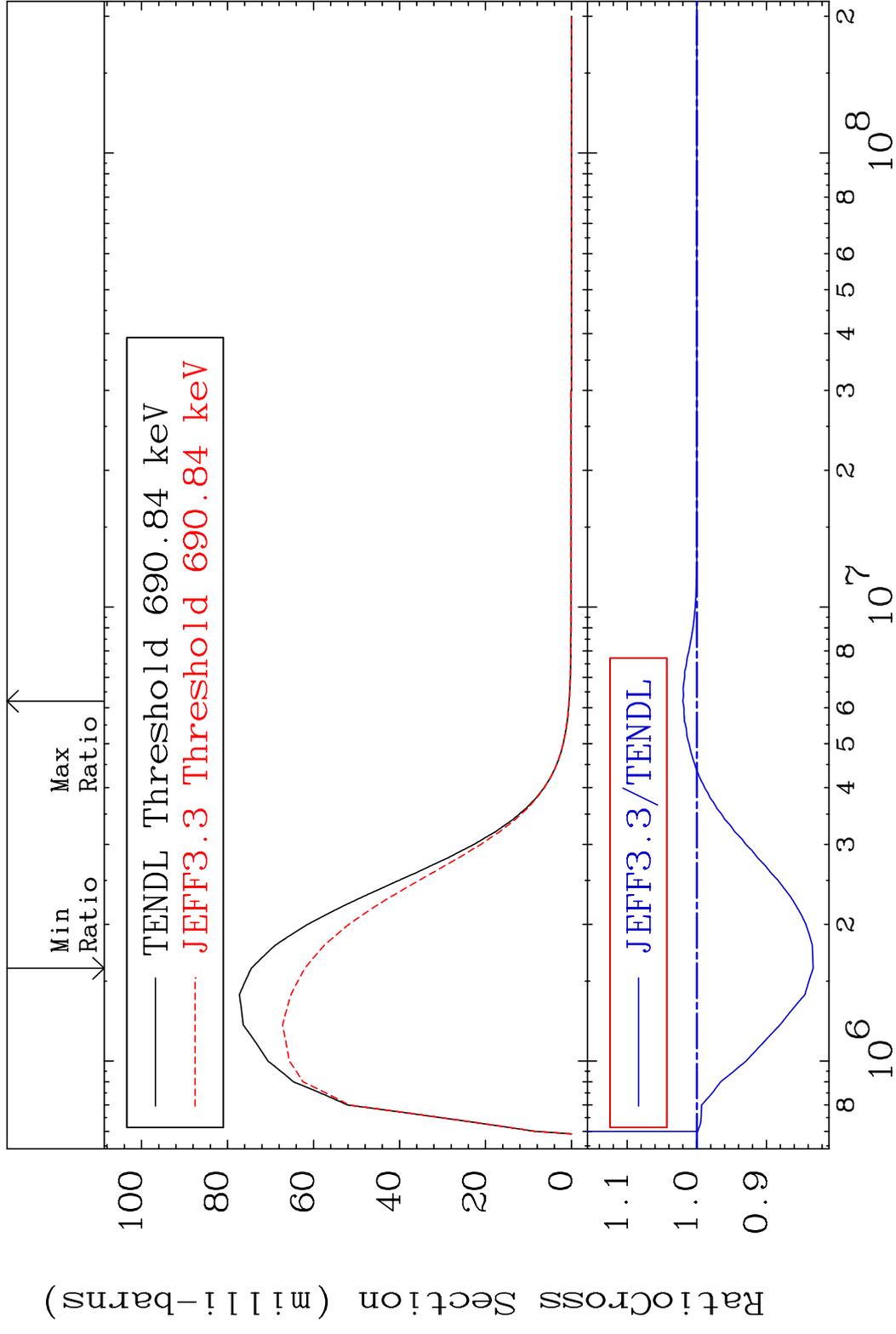


30 Incident Energy (eV) 44-Ru-101

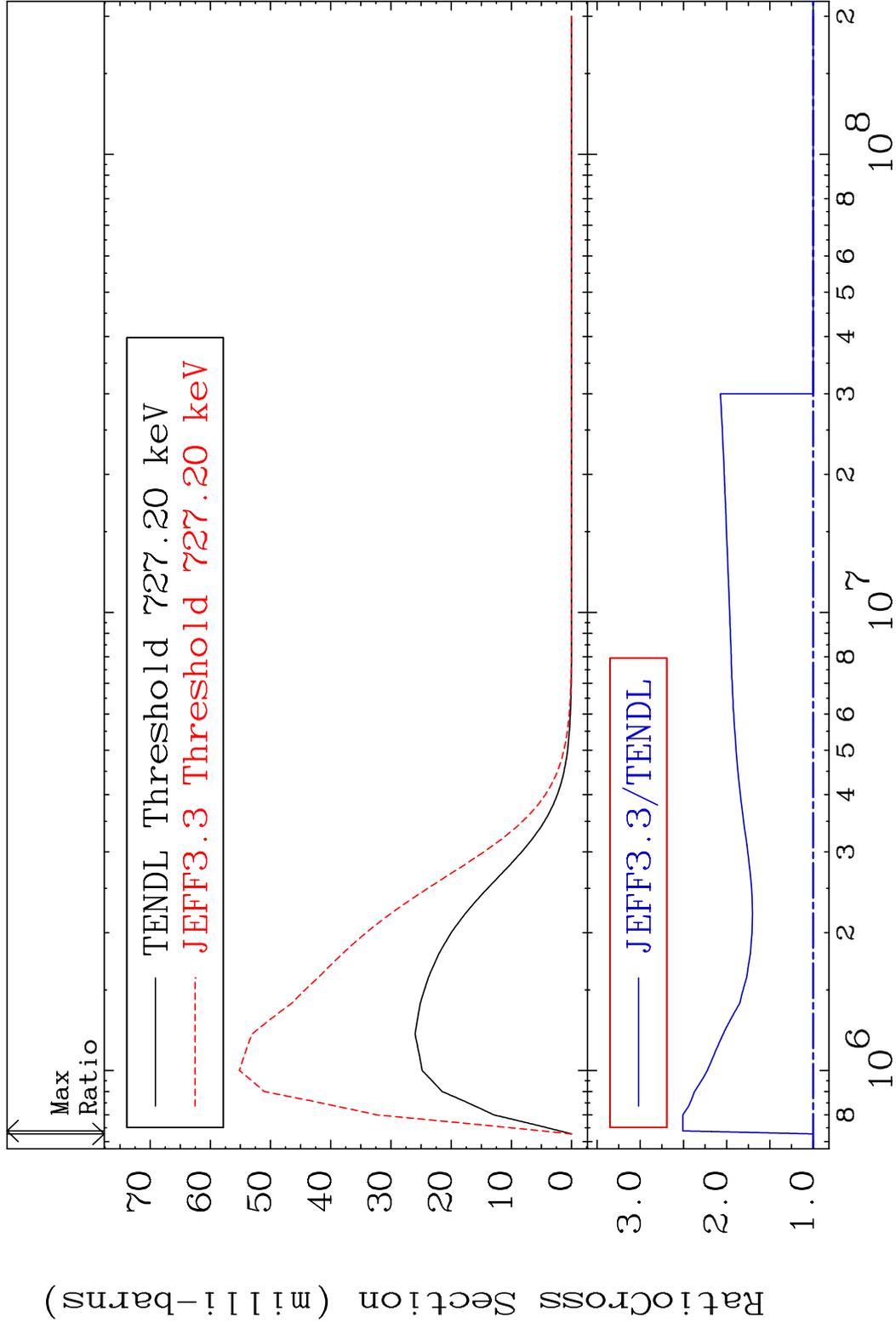
MAT 4440 MT= 62 (n, n') Level 44-Ru-101  
 Cross Section -24.64 To 6.497 %



MAT 4440 MT= 63 (n, n') Level 44-Ru-101  
 Cross Section -16.70 To 2.015 %

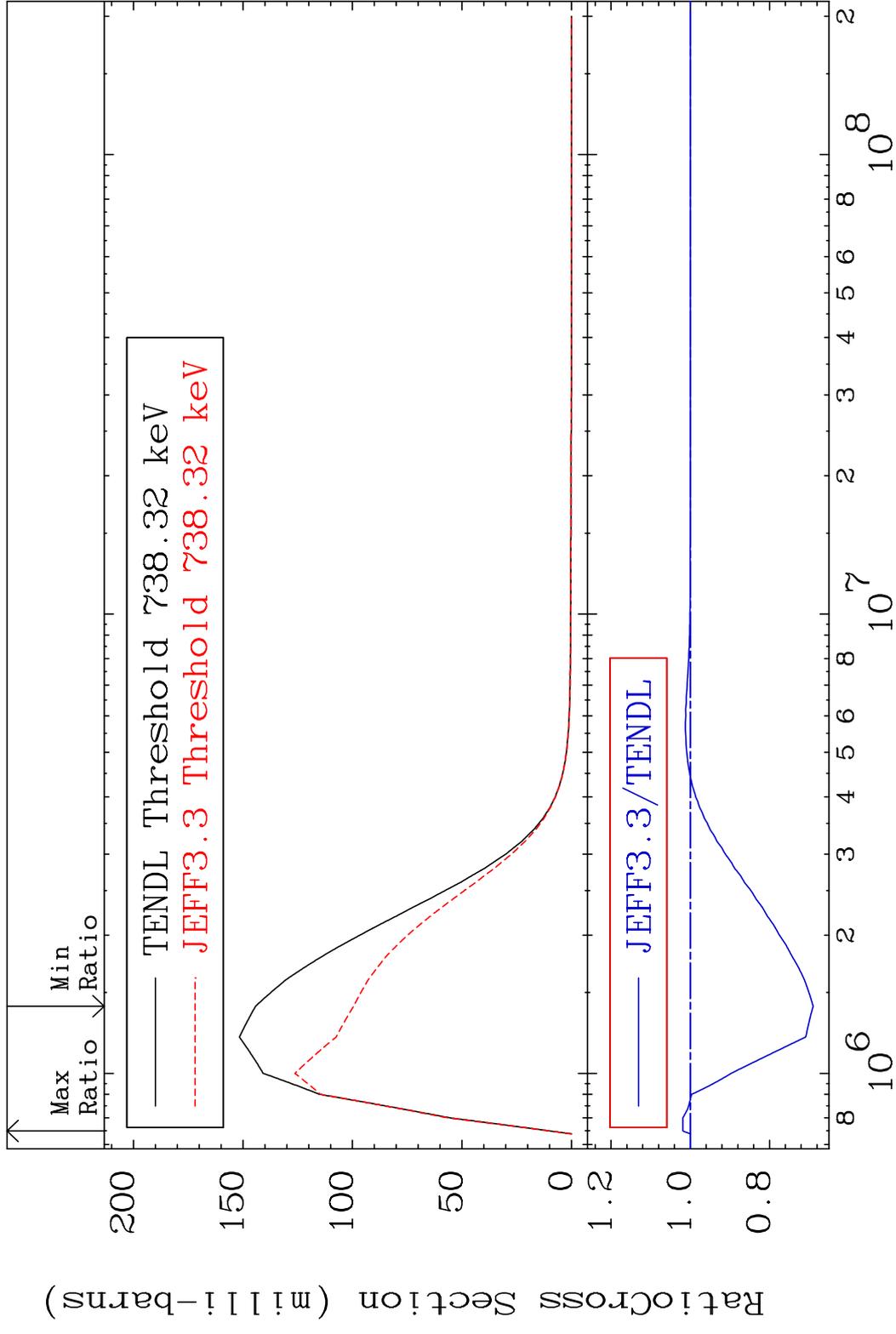


MAT 4440 MT= 64 (n,n') Level 44-Ru-101  
 Cross Section 0.000 To 150.7 %

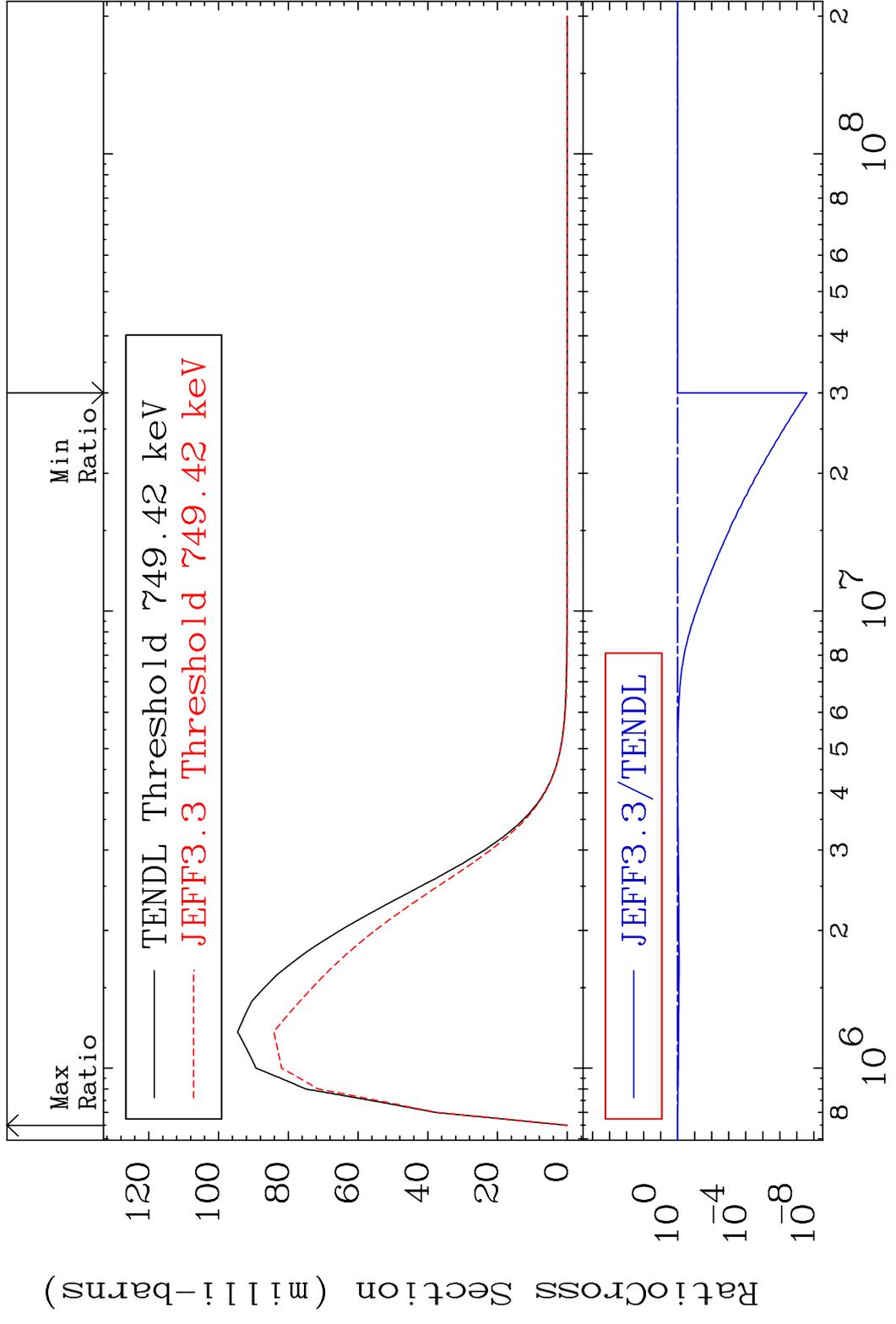


33 Incident Energy (eV) 44-Ru-101

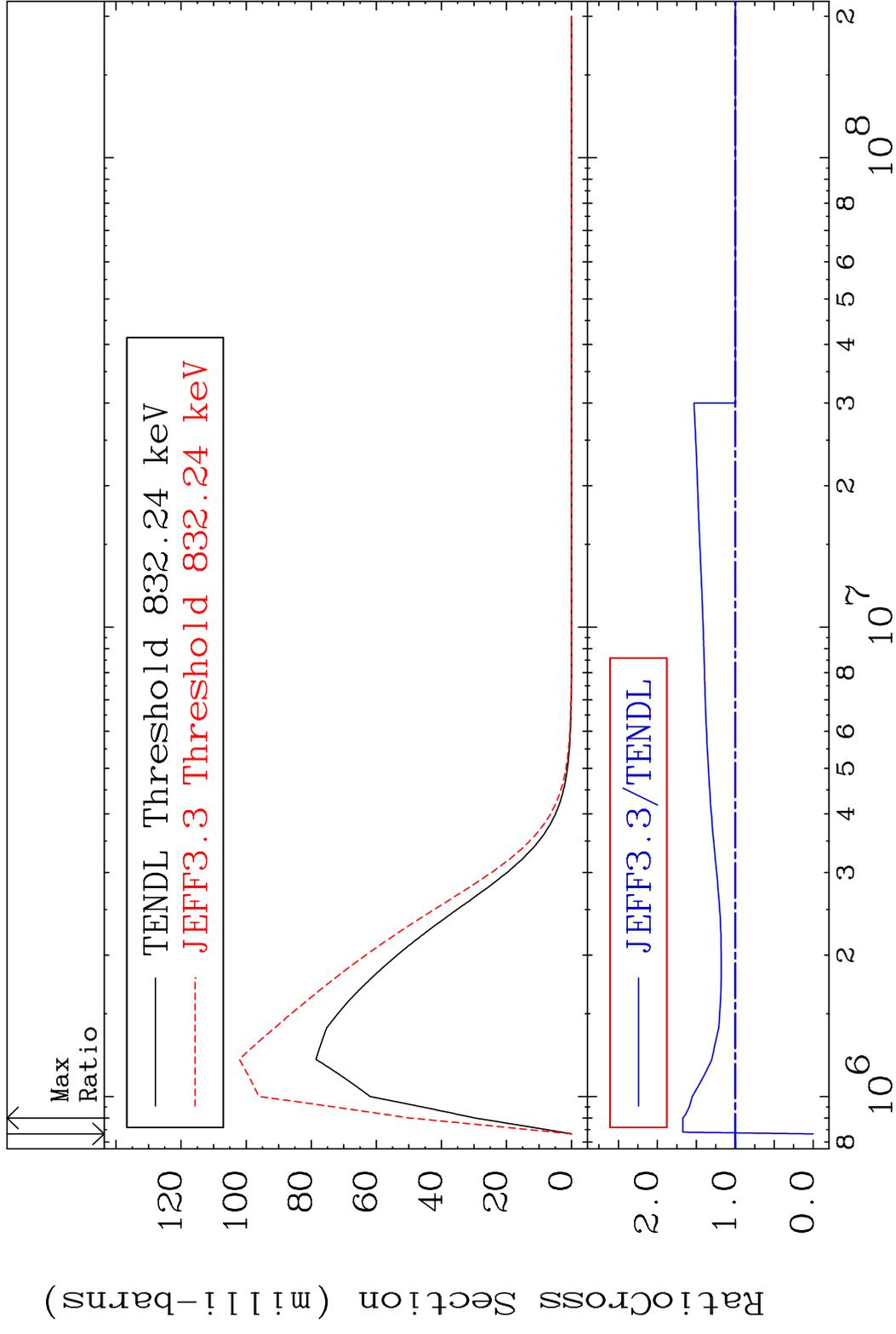
MAT 4440 MT= 65 (n,n') Level 44-Ru-101  
 Cross Section -31.02 To 1.884 %



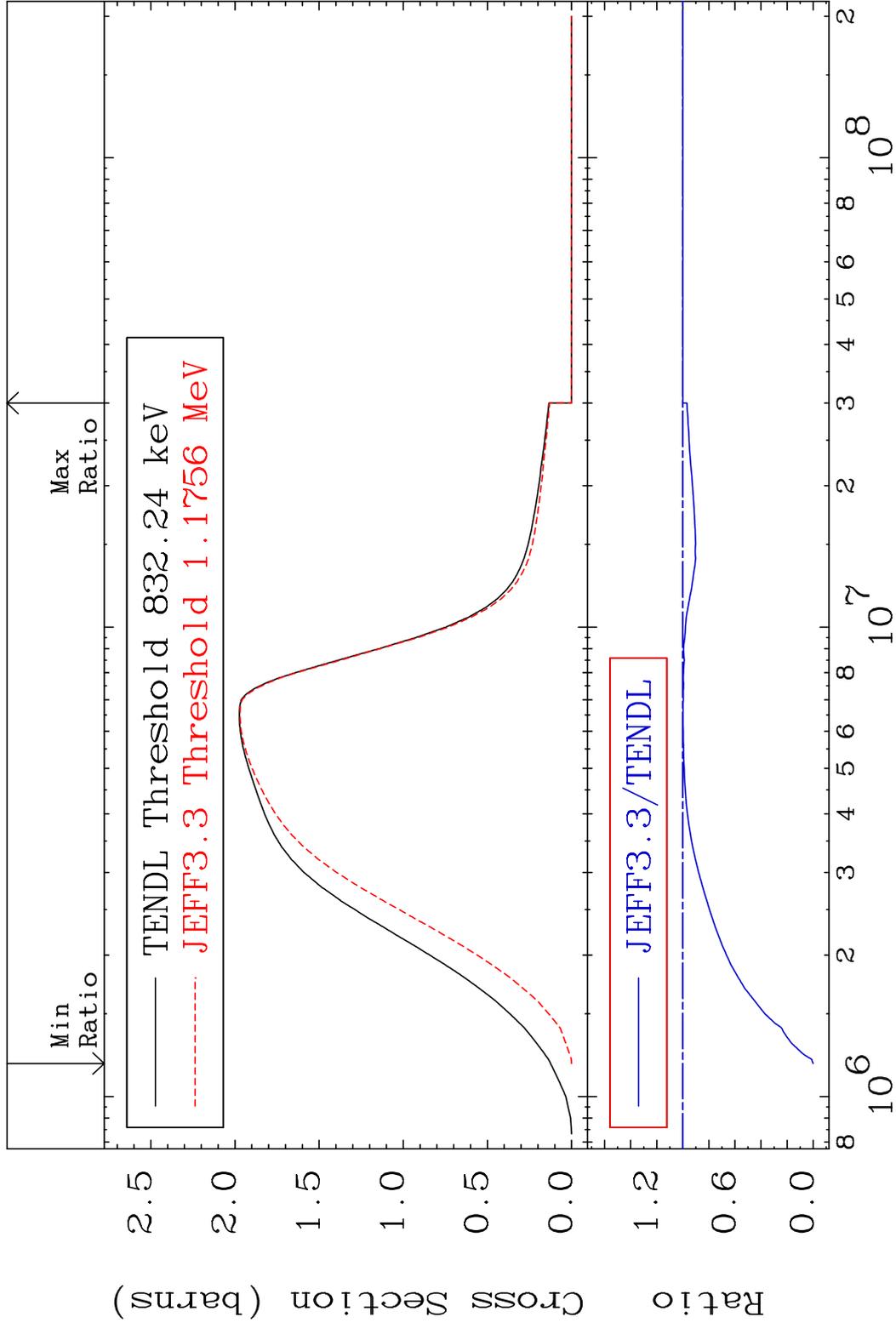
MAT 4440 MT= 66 (n,n') Level 44-Ru-101  
 Cross Section -100.0 To 0.000 %



MAT 4440 MT= 67 (n, n') Level 44-Ru-101  
 Cross Section -100.0 To 67.29 %



MAT 4440 (n, n') Continuum 44-Ru-101  
 Cross Section -100.0 To 0.000 %

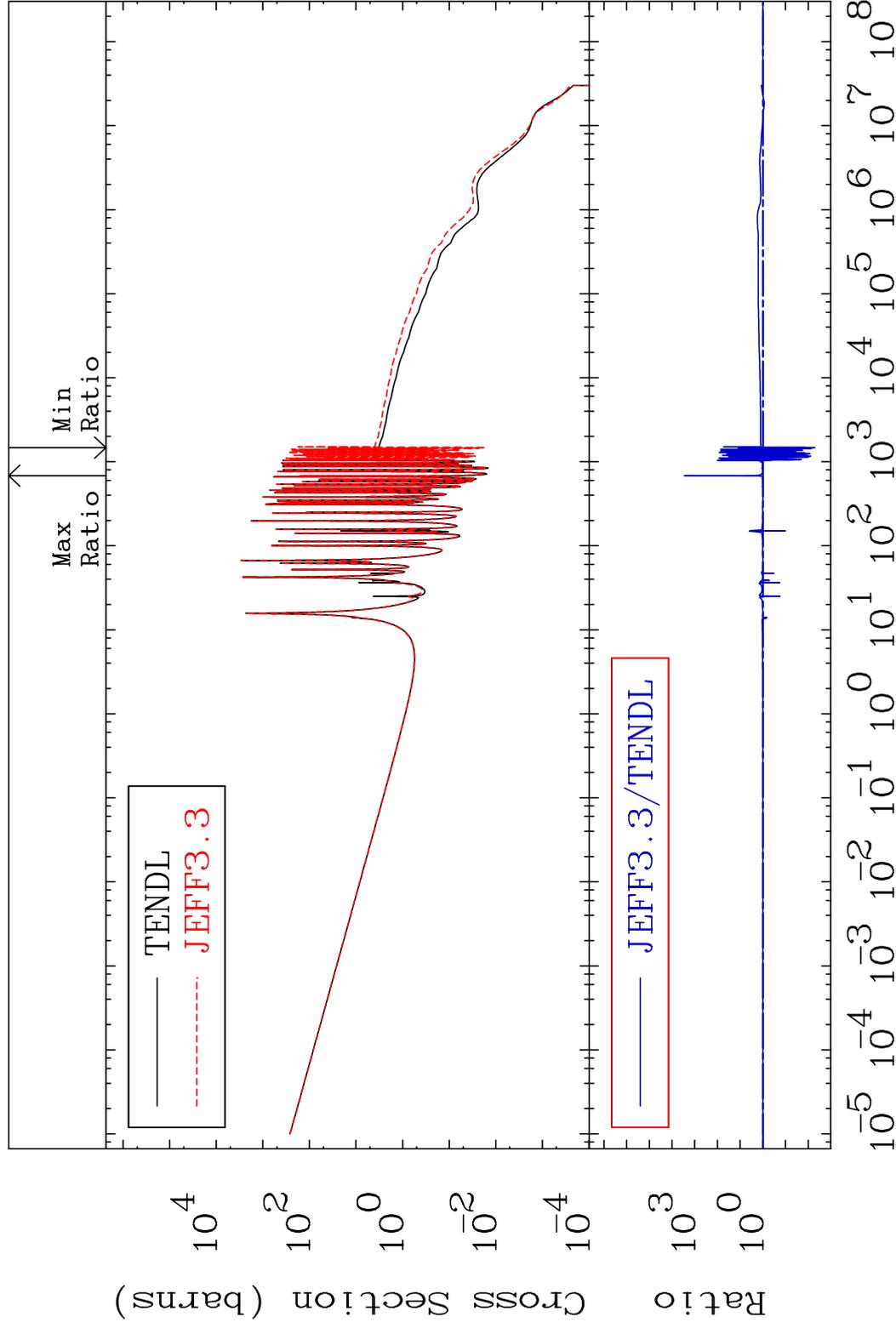


MAT 4440

(n,  $\gamma$ )

44-Ru-101

Cross Section -99.49 To 9999. %

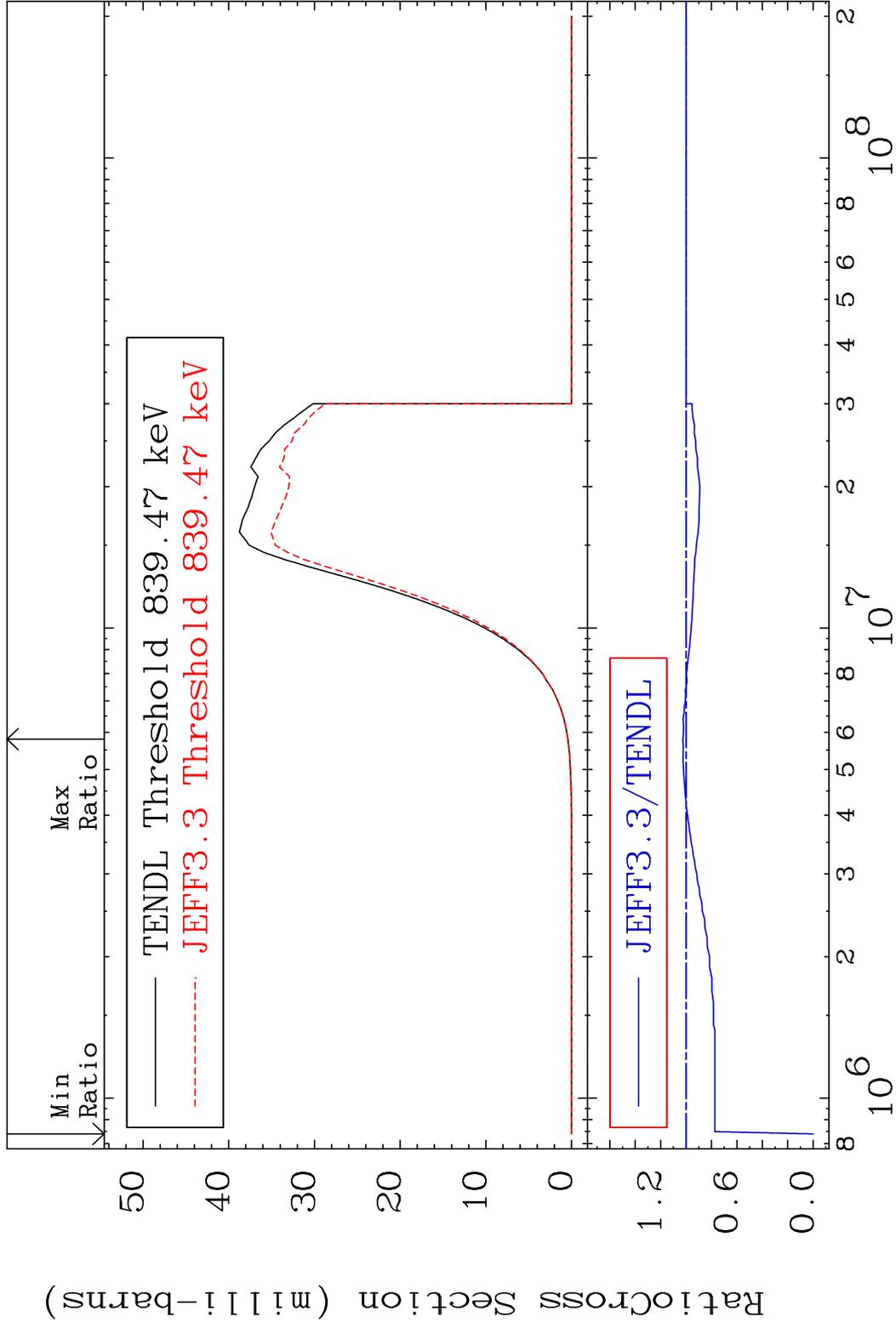


38

Incident Energy (eV)

44-Ru-101

MAT 4440 (n,p) 44-Ru-101  
 Cross Section -100.0 To 2.533 %



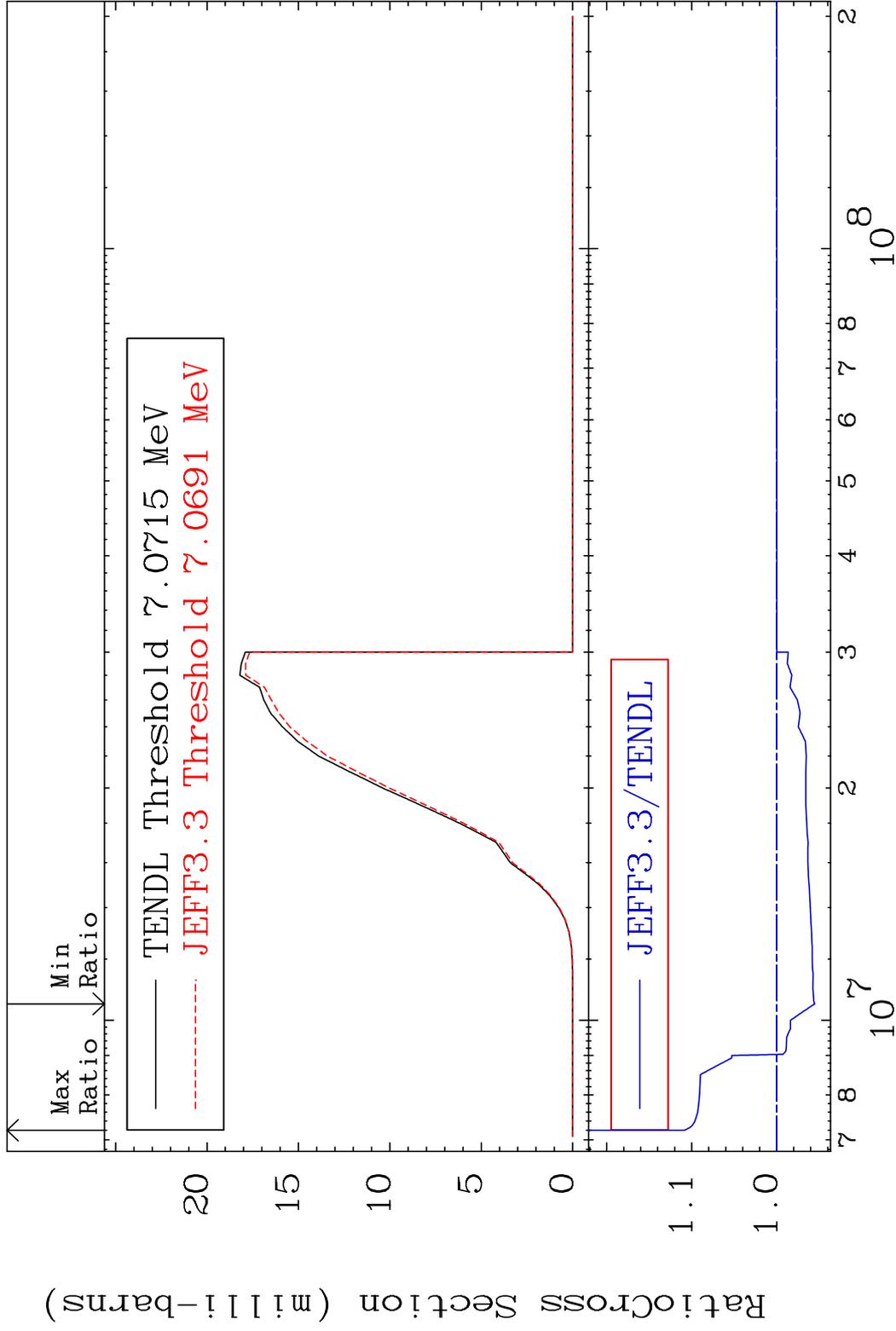
39 Incident Energy (eV) 44-Ru-101

MAT 4440

(n, d)

44-Ru-101

Cross Section -4.465 To 10.89 %

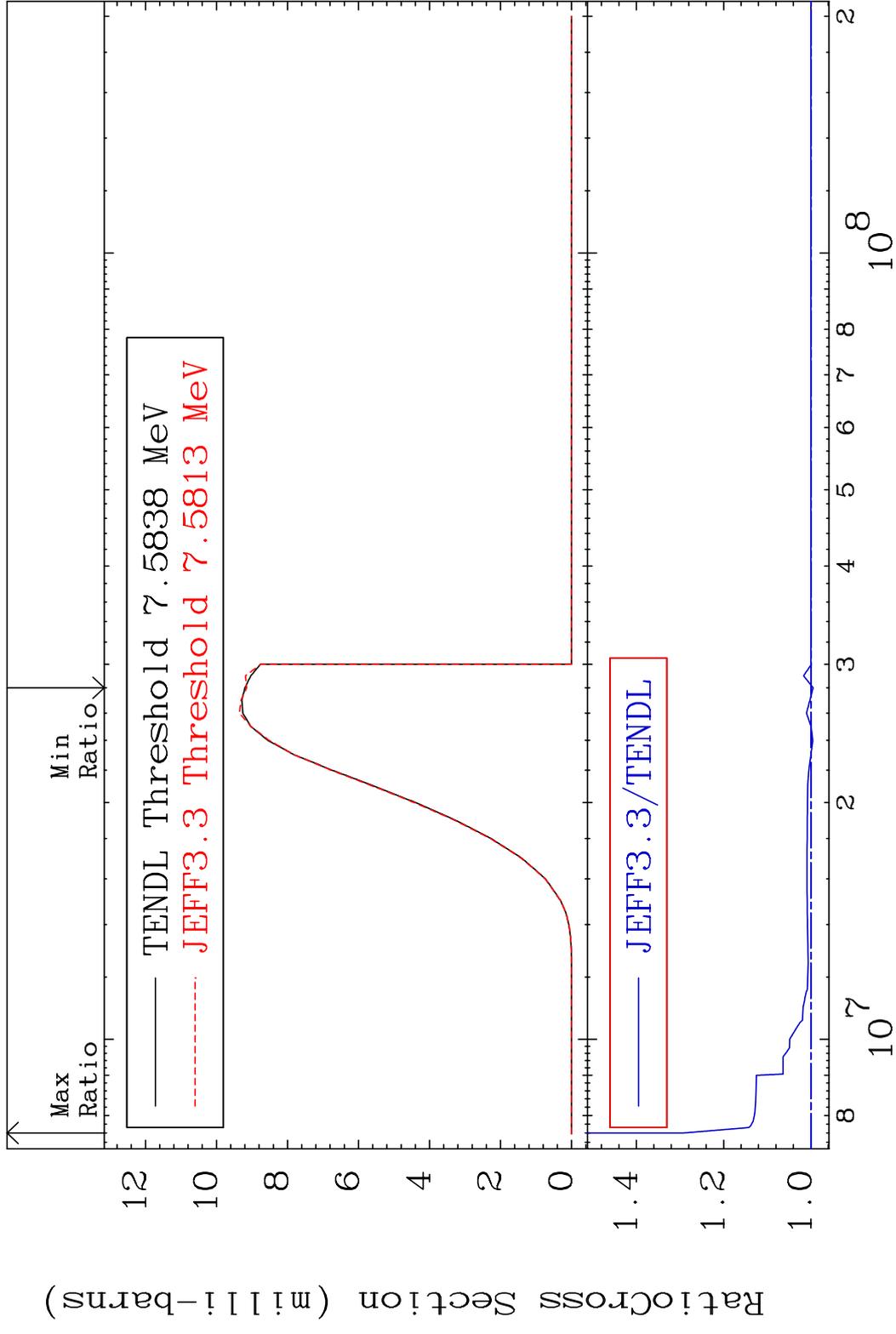


40

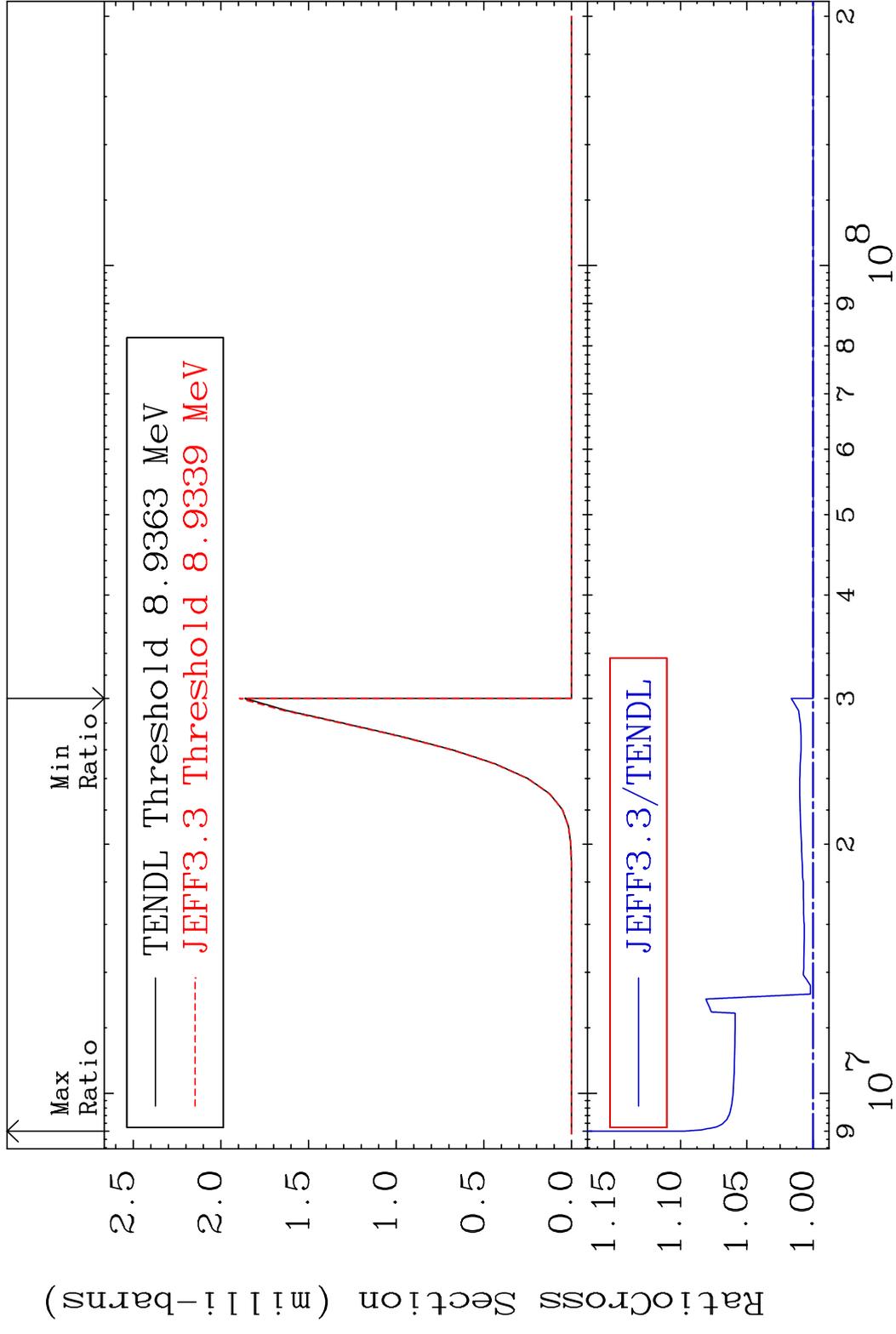
Incident Energy (eV)

44-Ru-101

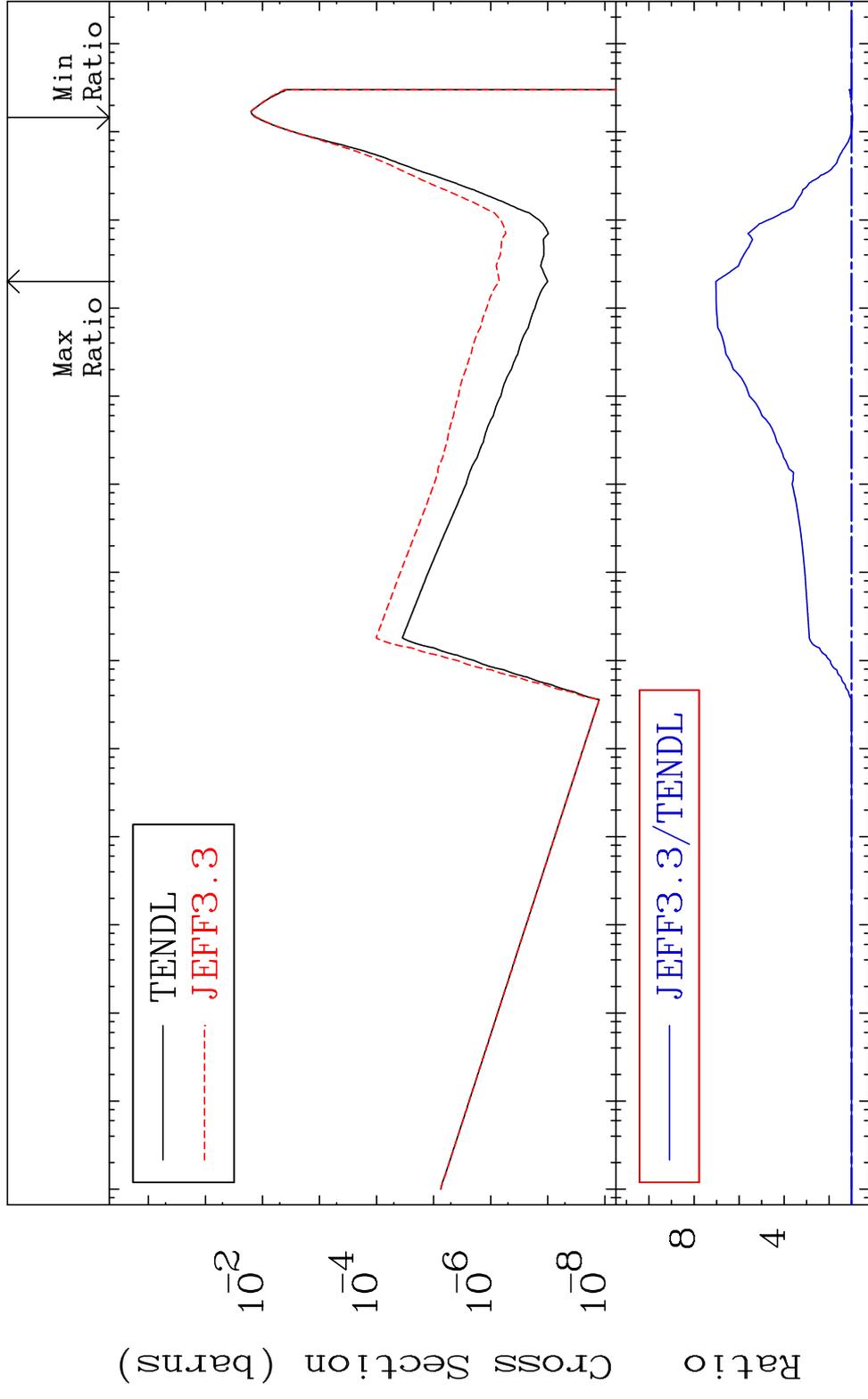
MAT 4440 (n, t) 44-Ru-101  
 Cross Section -0.515 To 29.34 %



MAT 4440 (n, He-3) 44-Ru-101  
 Cross Section 0.000 To 9.825 %



MAT 4440 (n,  $\alpha$ ) 44-Ru-101  
 Cross Section -3.750 To 603.0 %



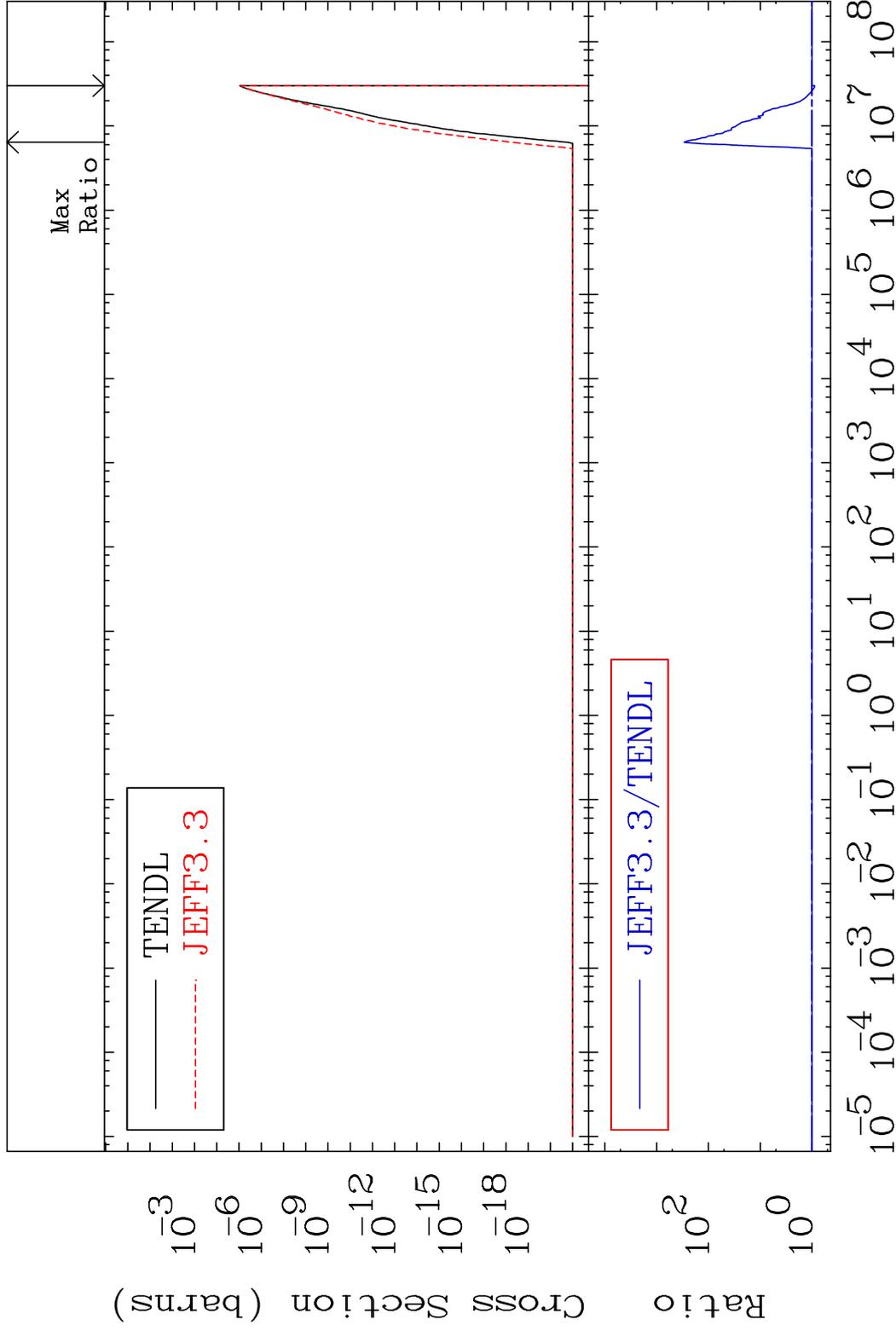
43 Incident Energy (eV) 44-Ru-101

MAT 4440

(n,2α)

44-Ru-101

Cross Section -11.08 To 9999. %

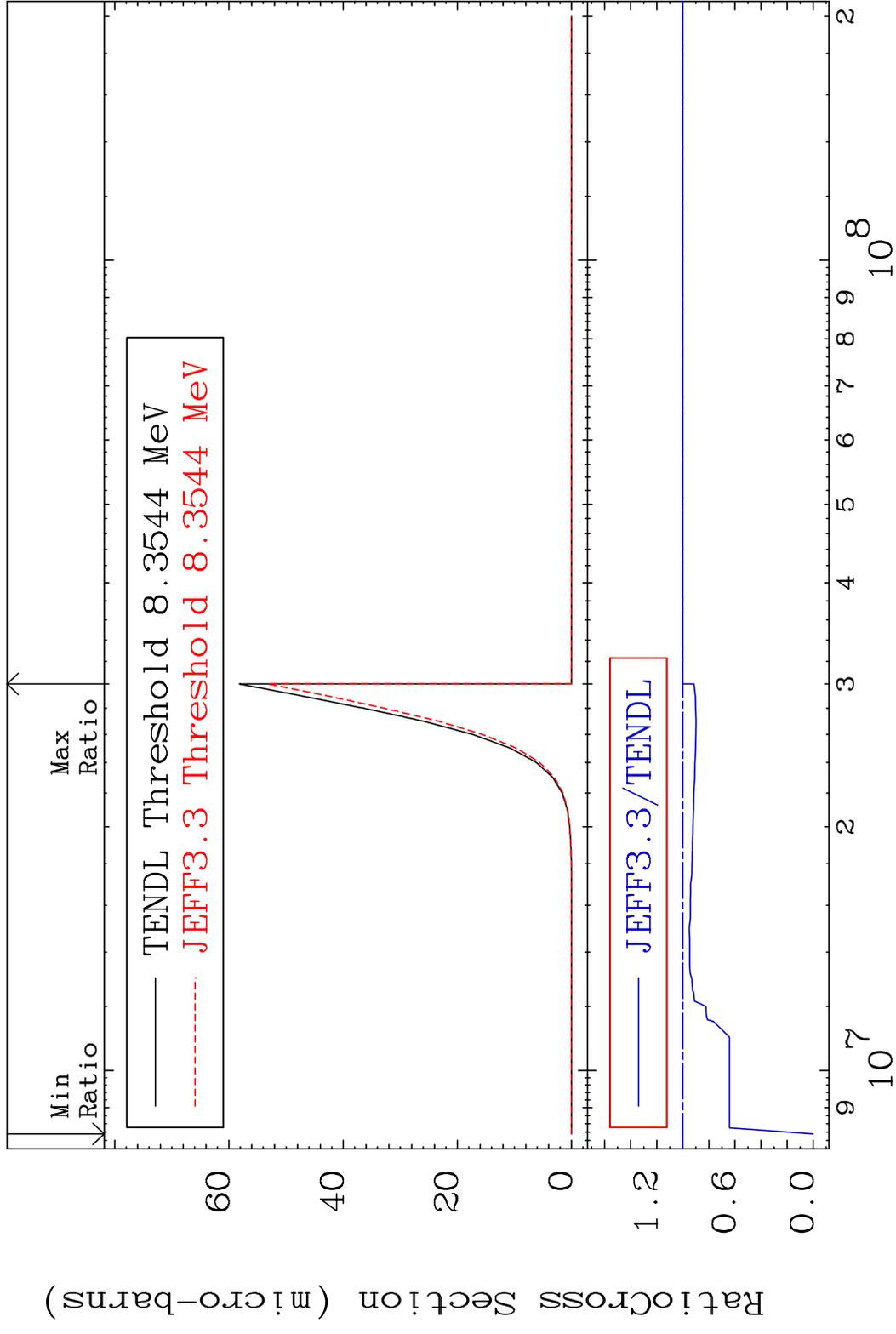


44

Incident Energy (eV)

44-Ru-101

MAT 4440 (n,2p) 44-Ru-101  
 Cross Section -100.0 To 0.000 %



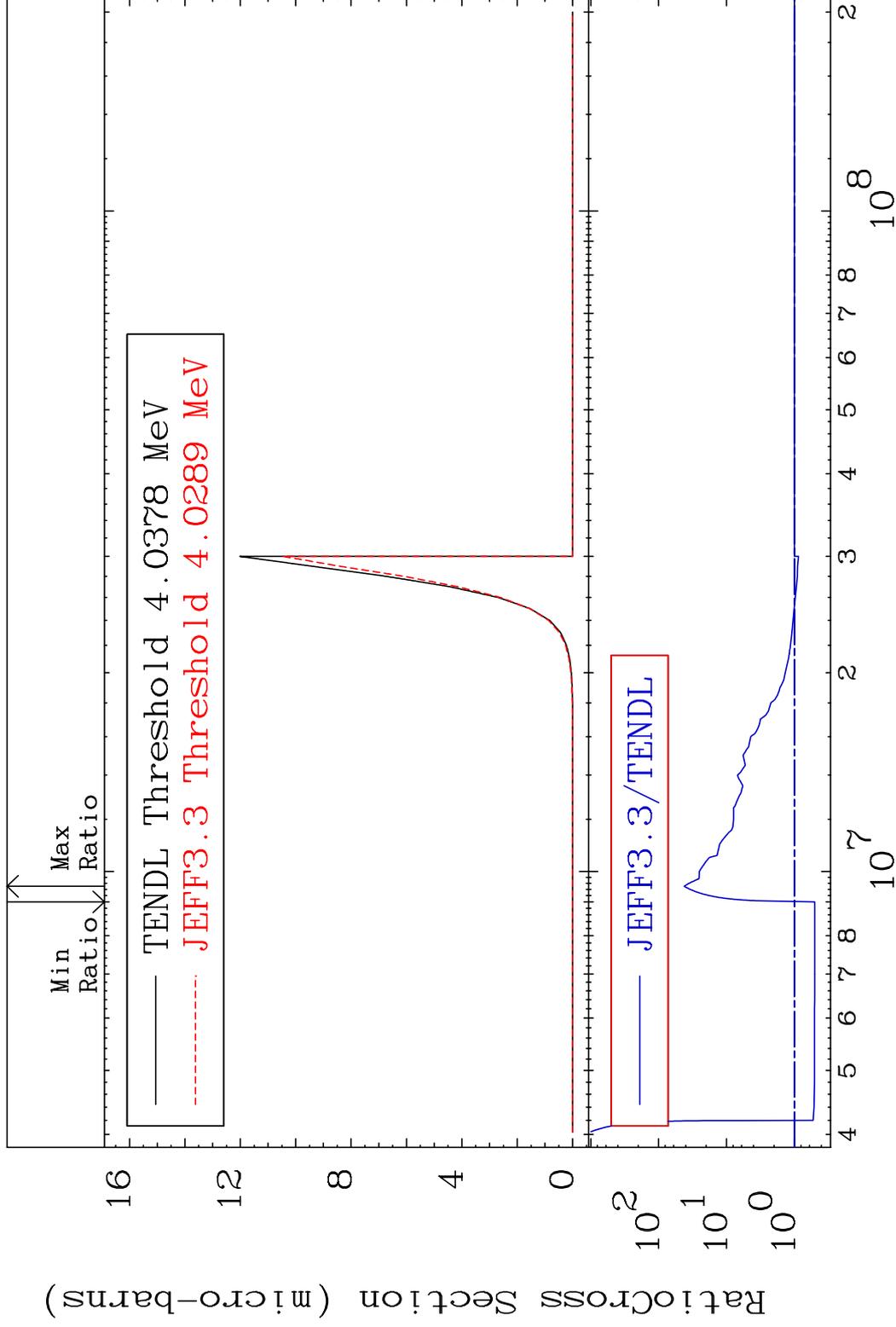
45 Incident Energy (eV) 44-Ru-101

MAT 4440

(n,p)  $\alpha$

44-Ru-101

Cross Section -49.79 To 4114. %

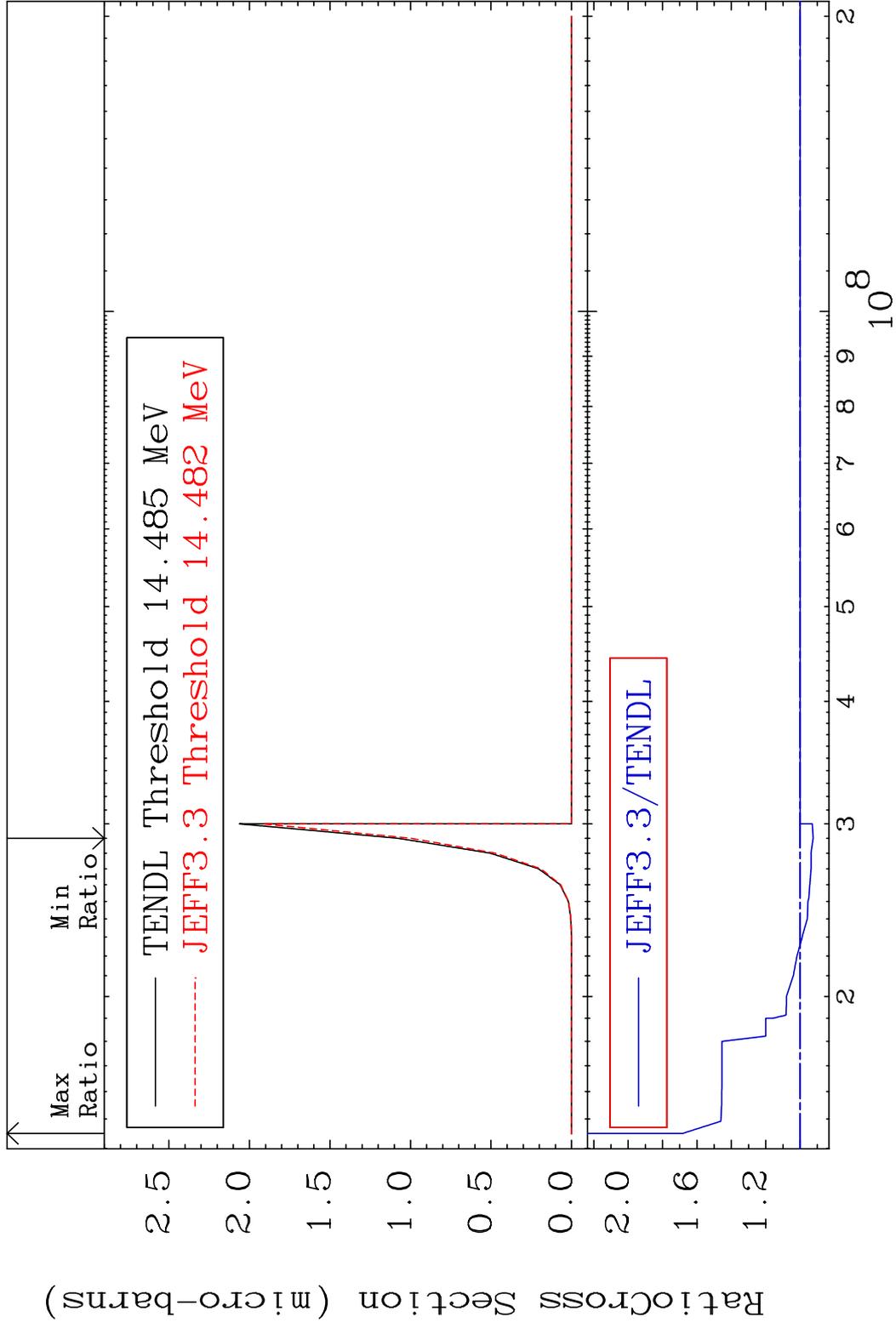


46

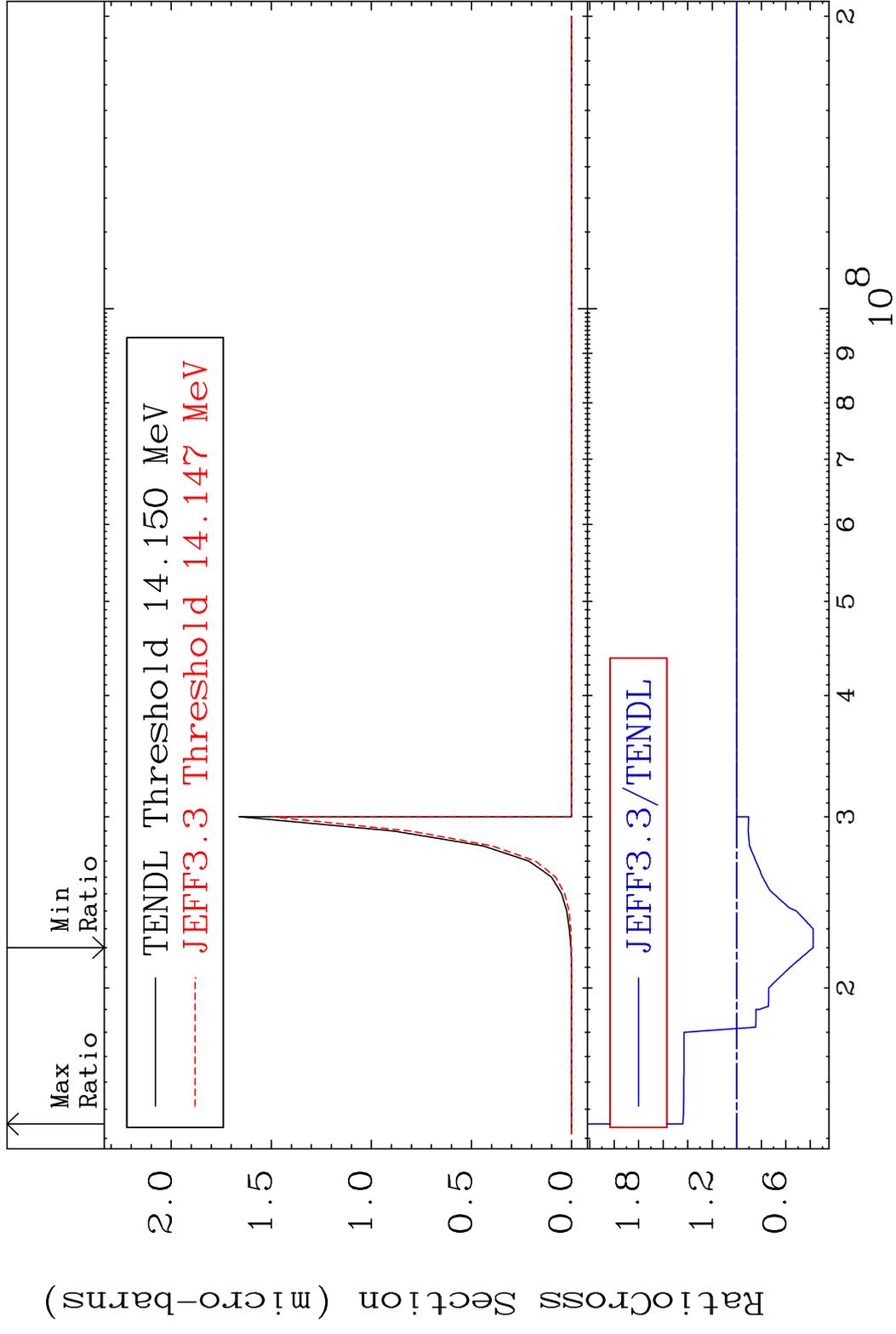
Incident Energy (eV)

44-Ru-101

MAT 4440 (n,p) d 44-Ru-101  
 Cross Section -7.549 To 68.21 %



MAT 4440 (n,p) t 44-Ru-101  
 Cross Section -62.32 To 43.99 %

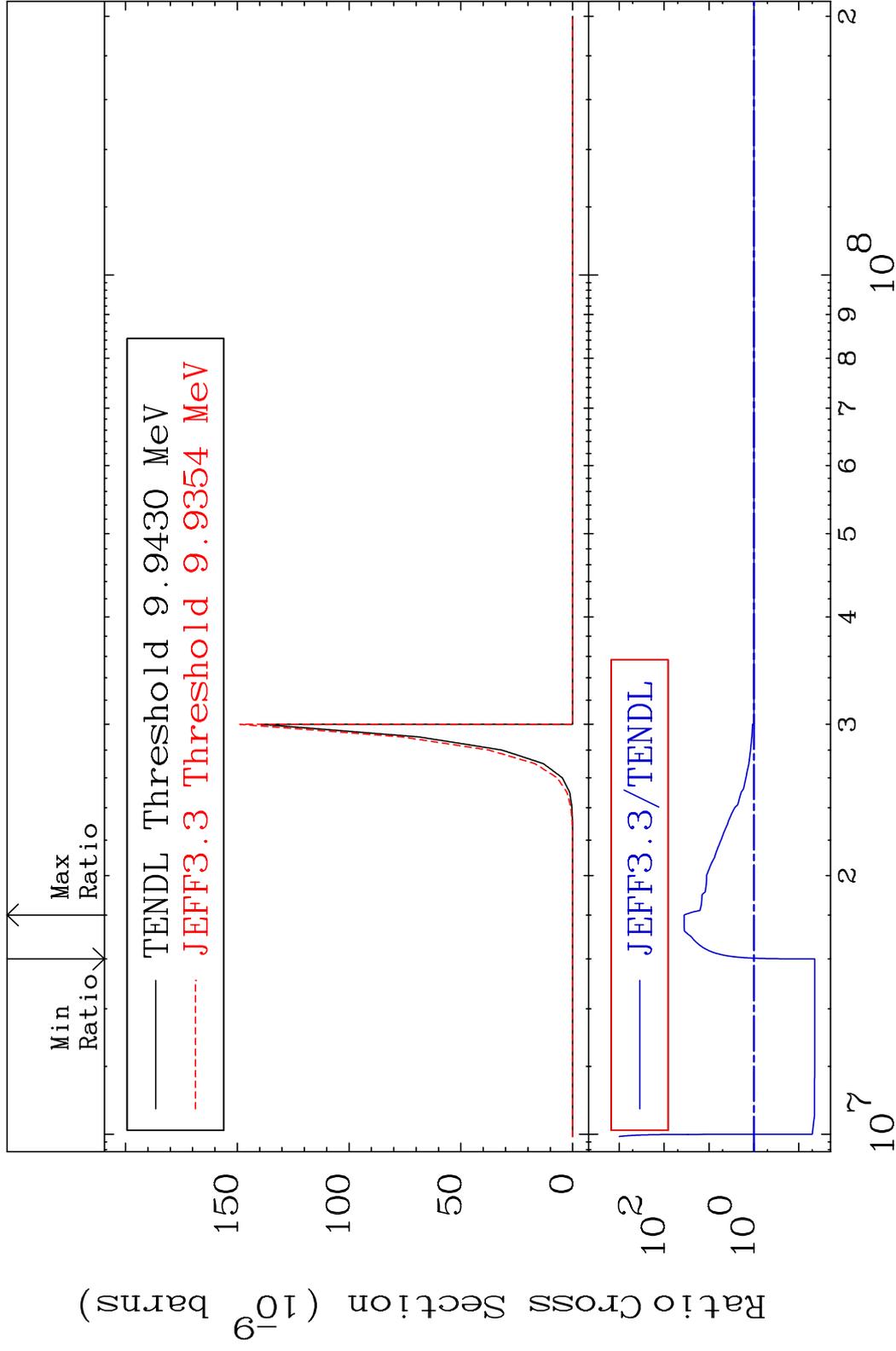


MAT 4440

(n,d)  $\alpha$

44-Ru-101

Cross Section -95.60 To 3485. %



49

Incident Energy (eV)

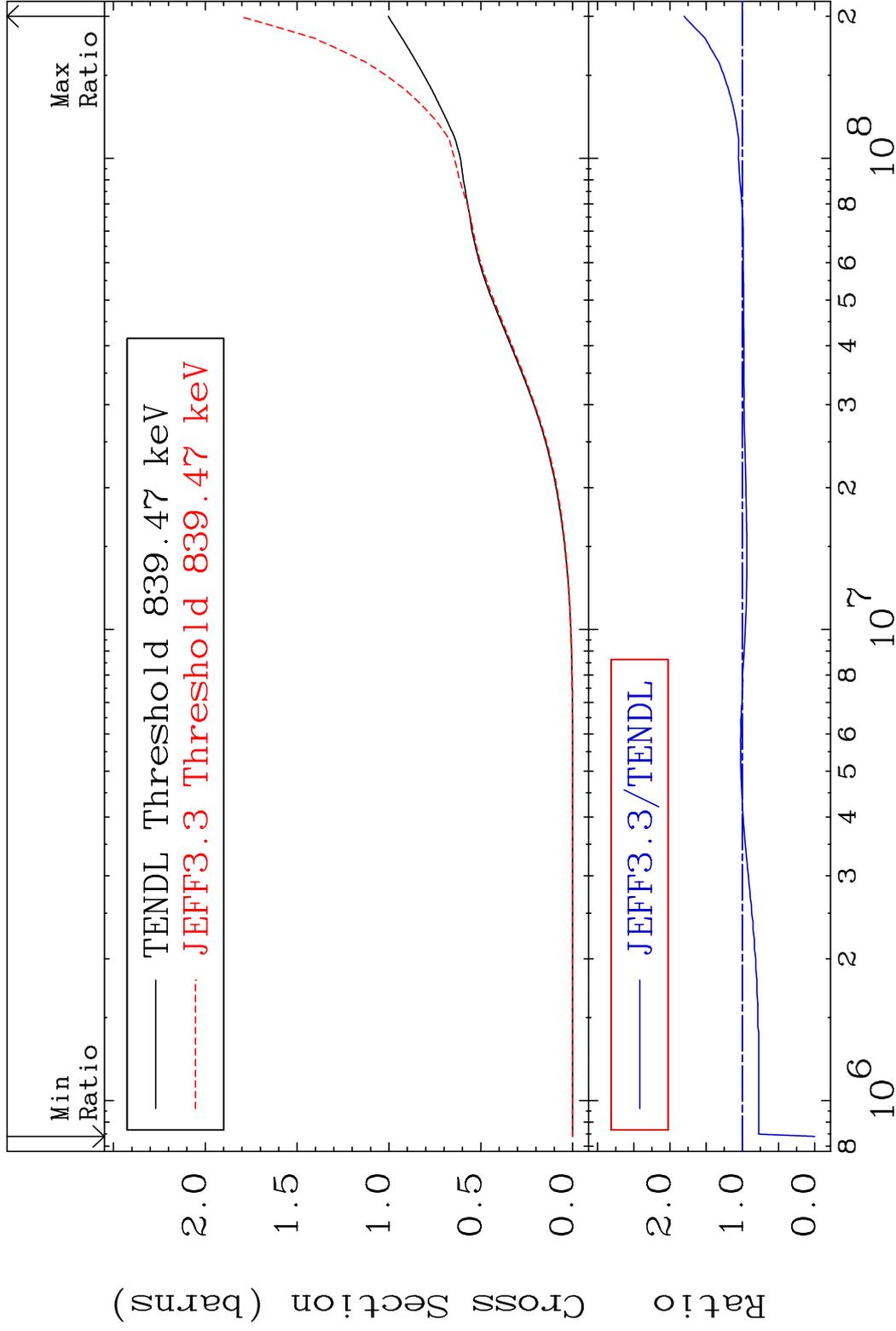
44-Ru-101

MAT 4440

Hydrogen Production

44-Ru-101

Cross Section -100.0 To 80.42 %



50

Incident Energy (eV)

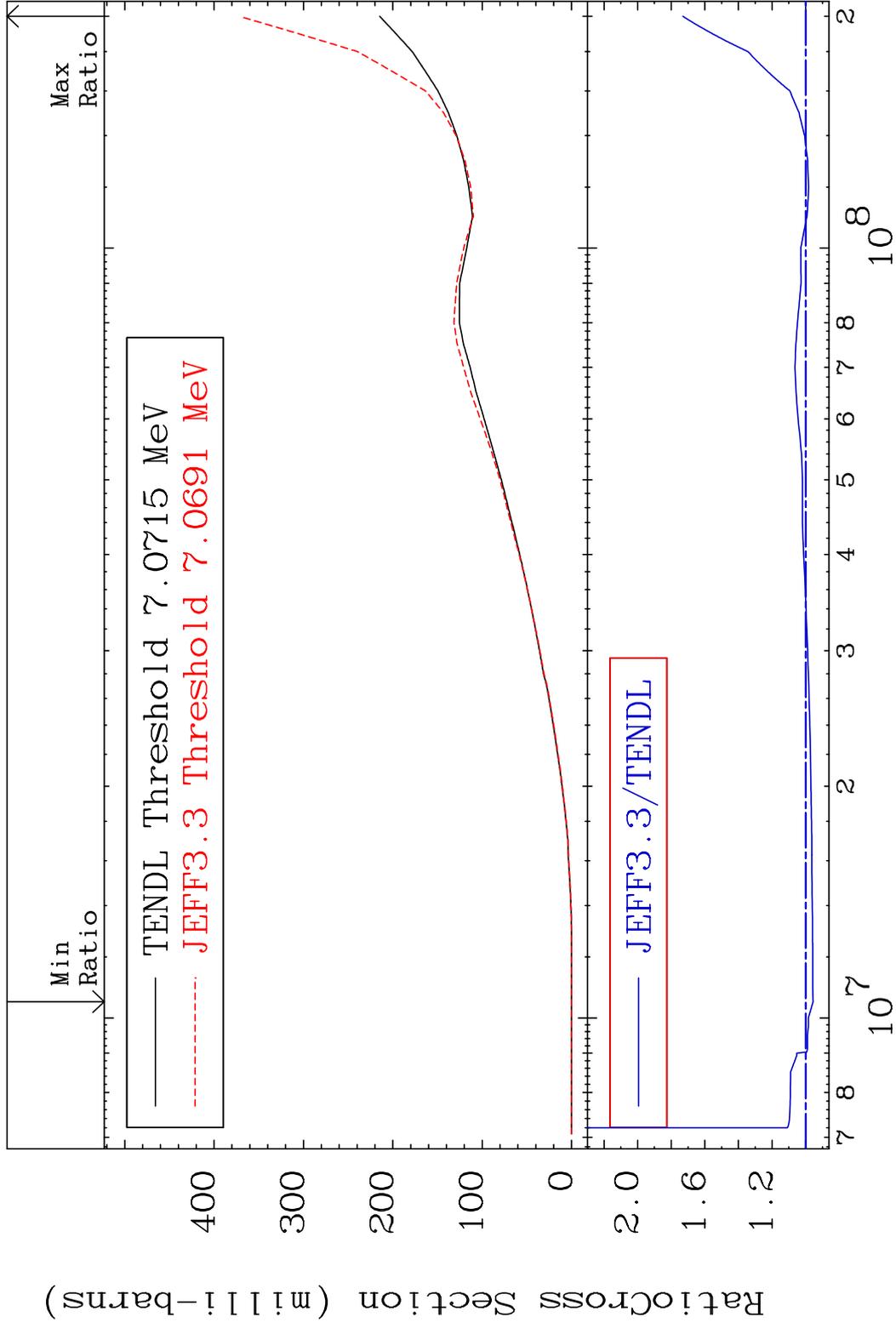
44-Ru-101

MAT 4440

Deuterium Production

44-Ru-101

Cross Section -4.465 To 73.10 %

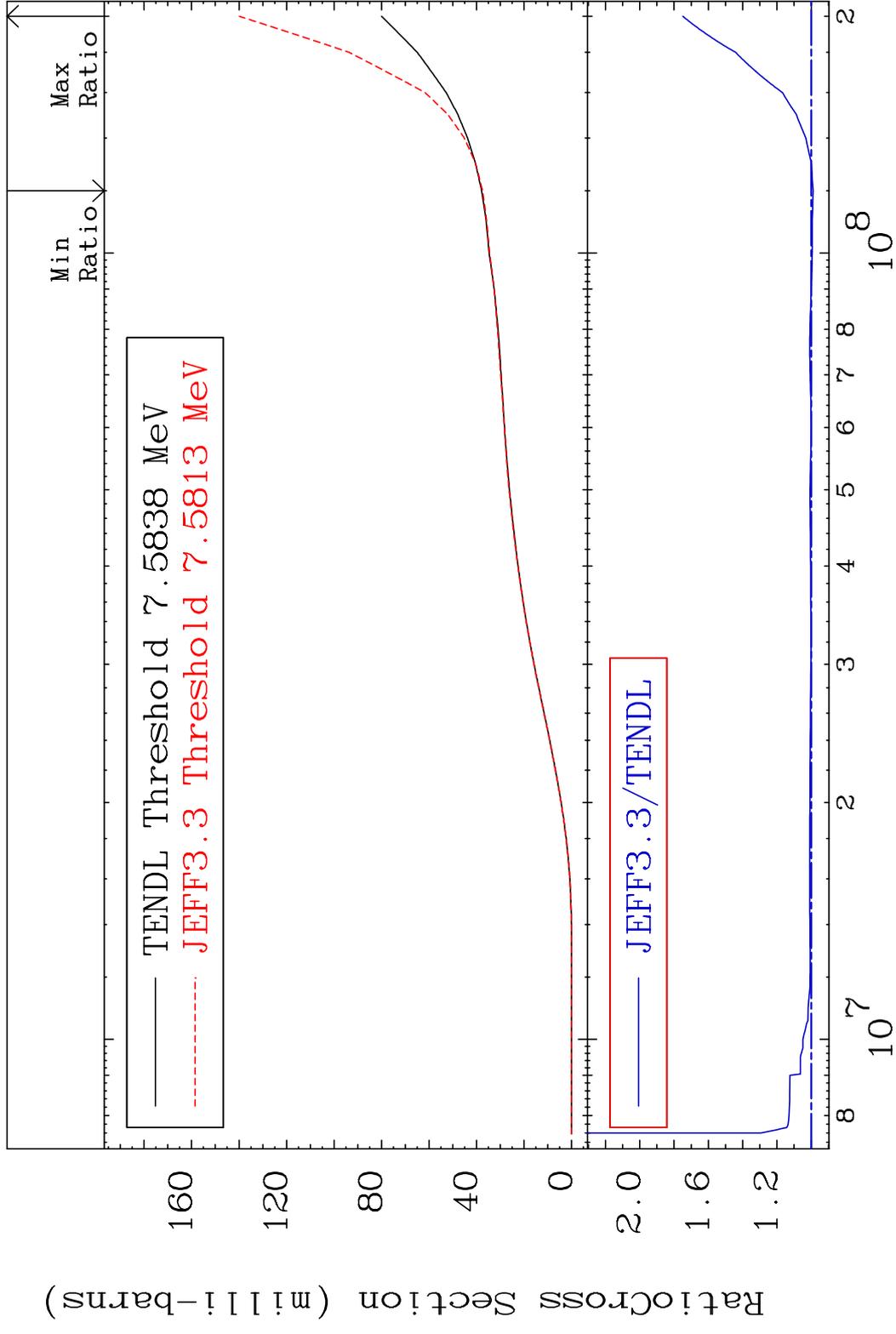


MAT 4440

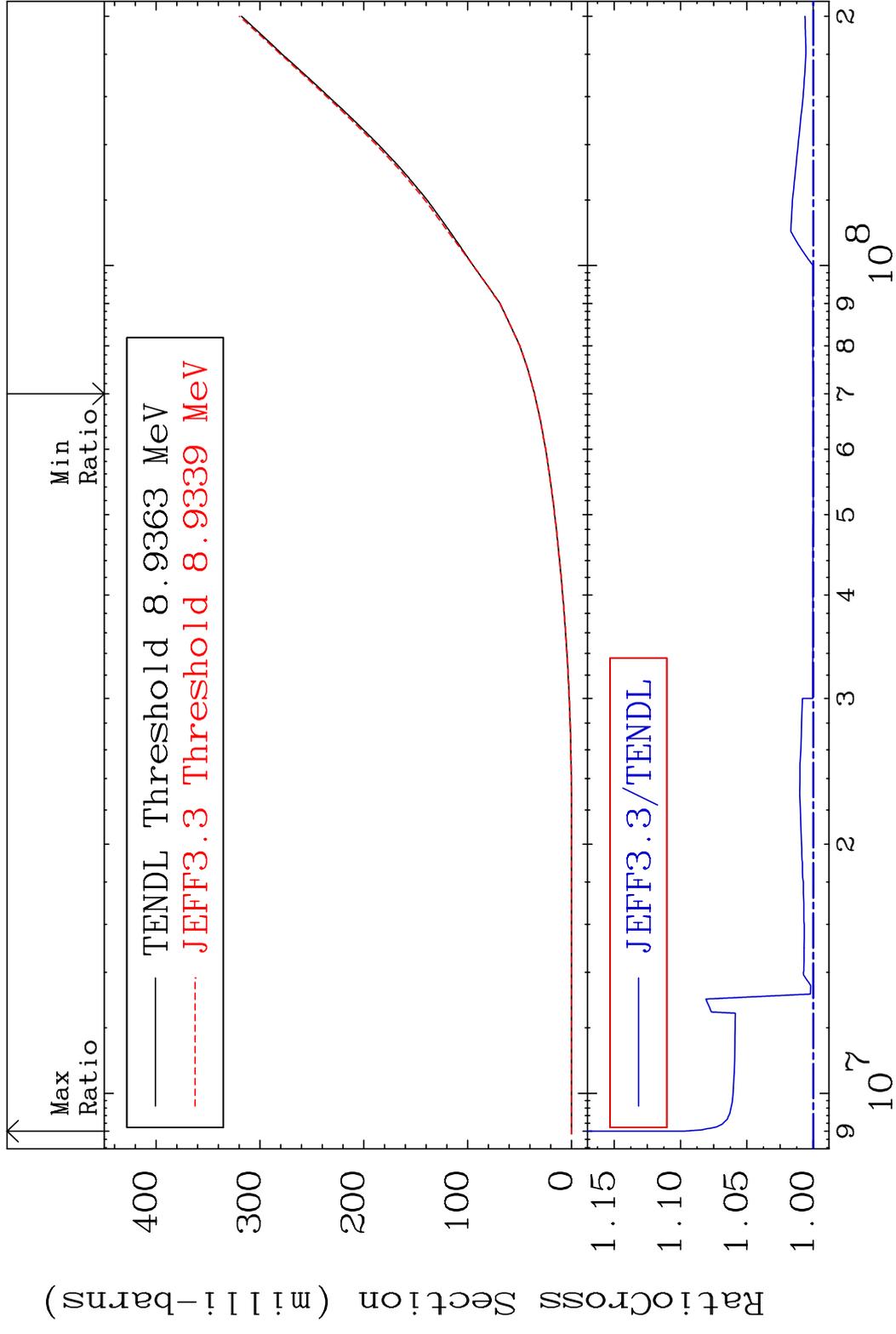
Tritium Production

44-Ru-101

Cross Section -1.085 To 74.88 %



MAT 4440 He-3 Production 44-Ru-101  
 Cross Section 0.010 To 9.825 %

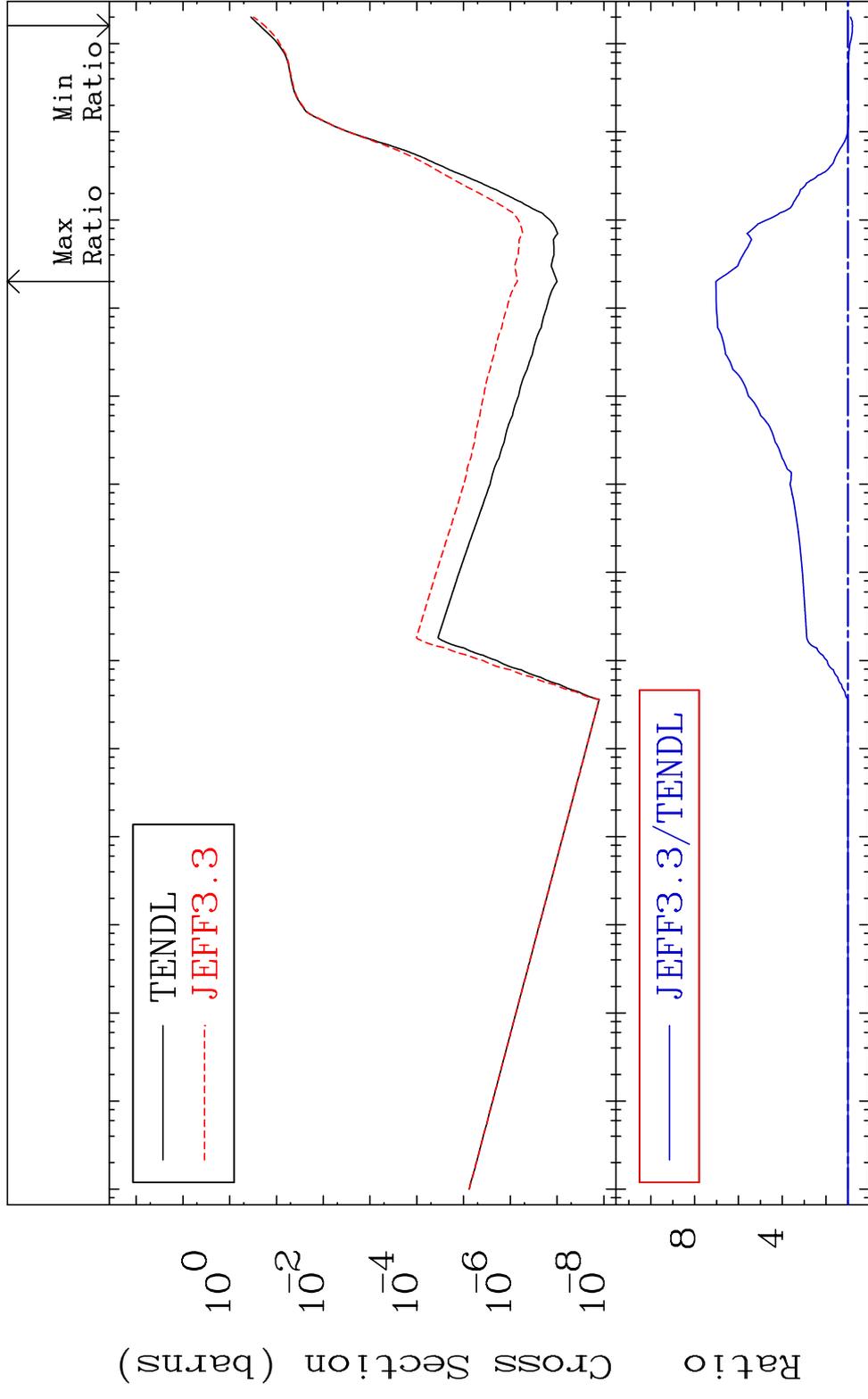


MAT 4440

He-4 Production

44-Ru-101

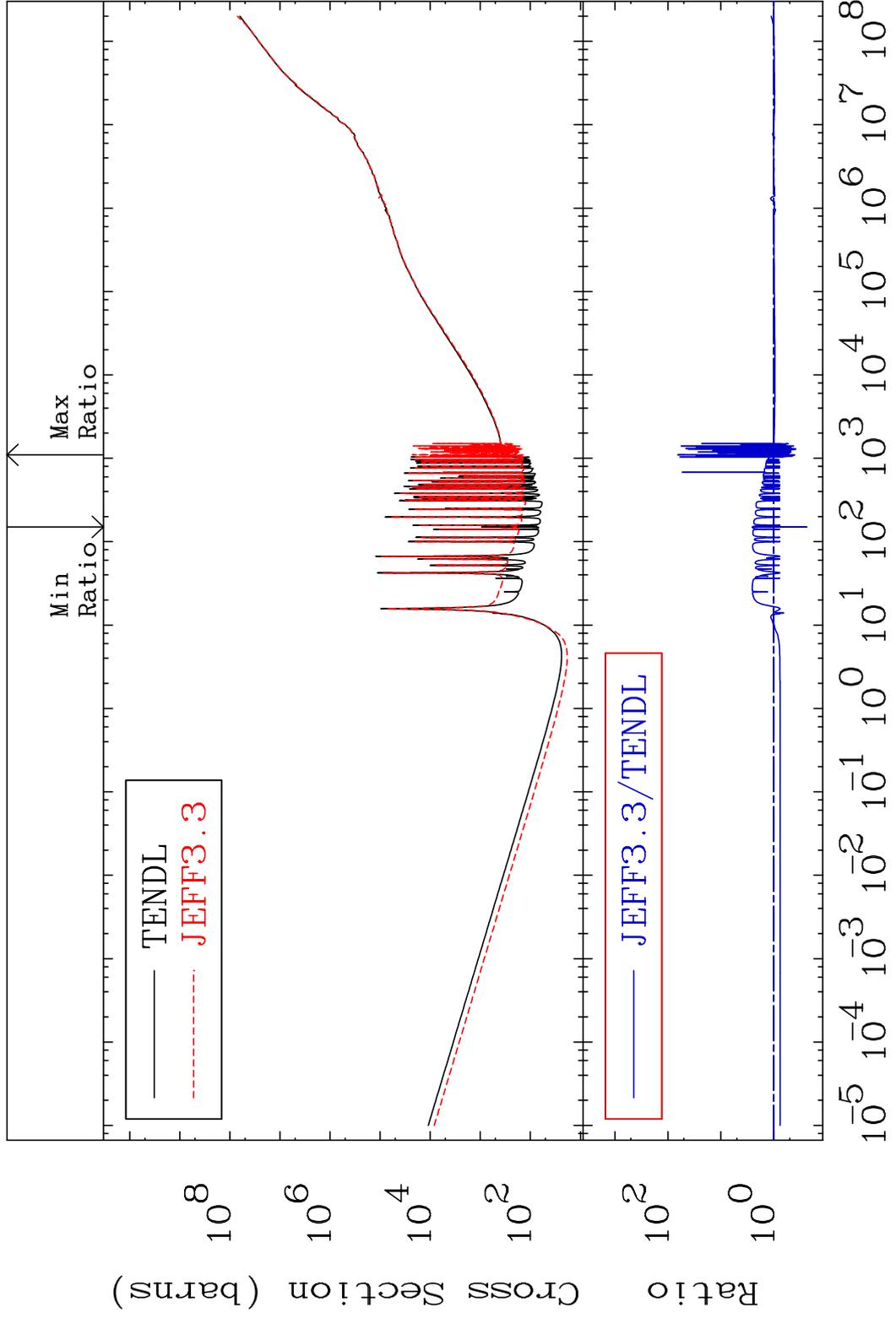
Cross Section -20.71 To 603.0 %



54 Incident Energy (eV) 44-Ru-101

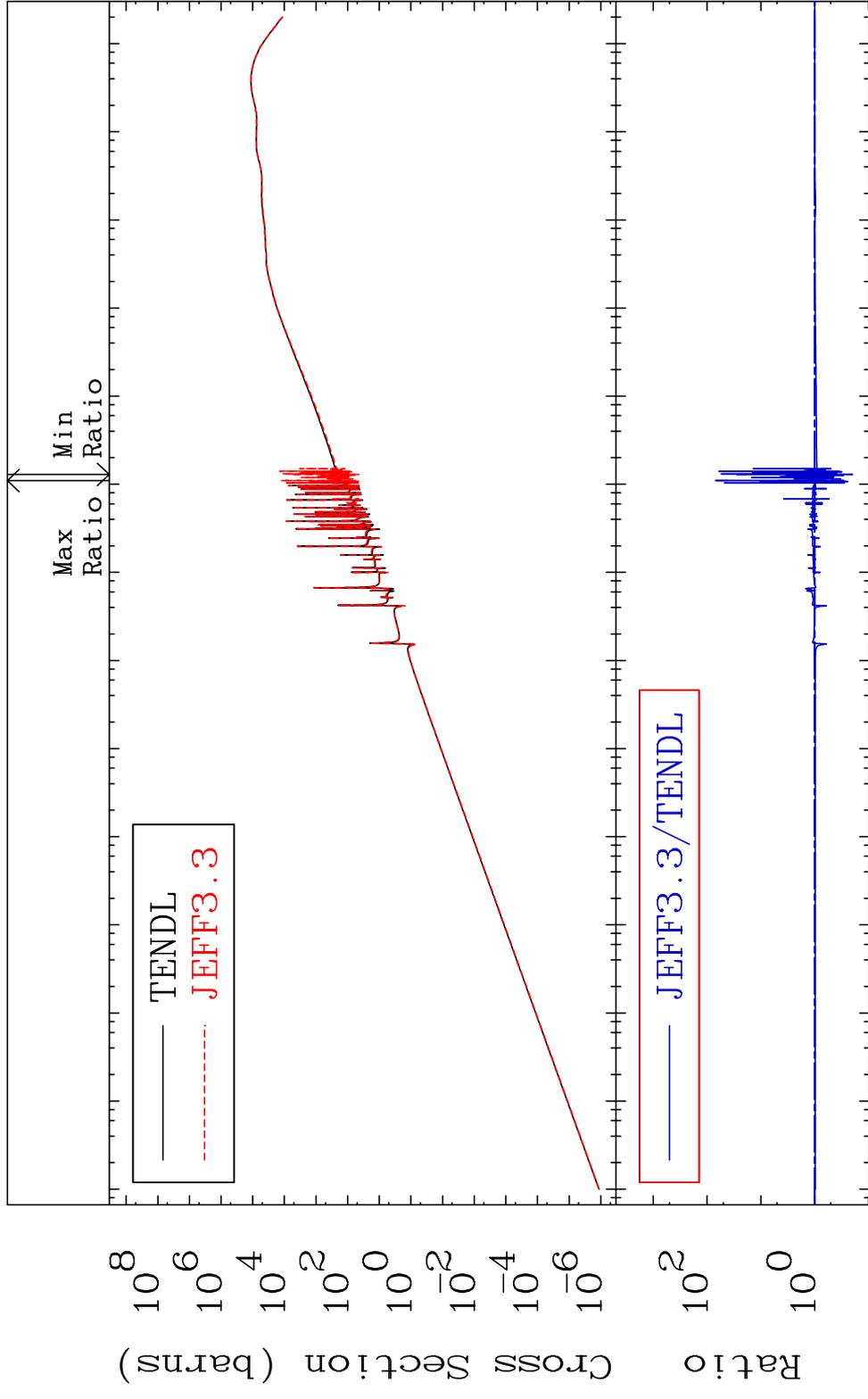
MAT 4440

Kerma total (eV-barns) 44-Ru-101  
Cross Section -76.39 To 6434. %



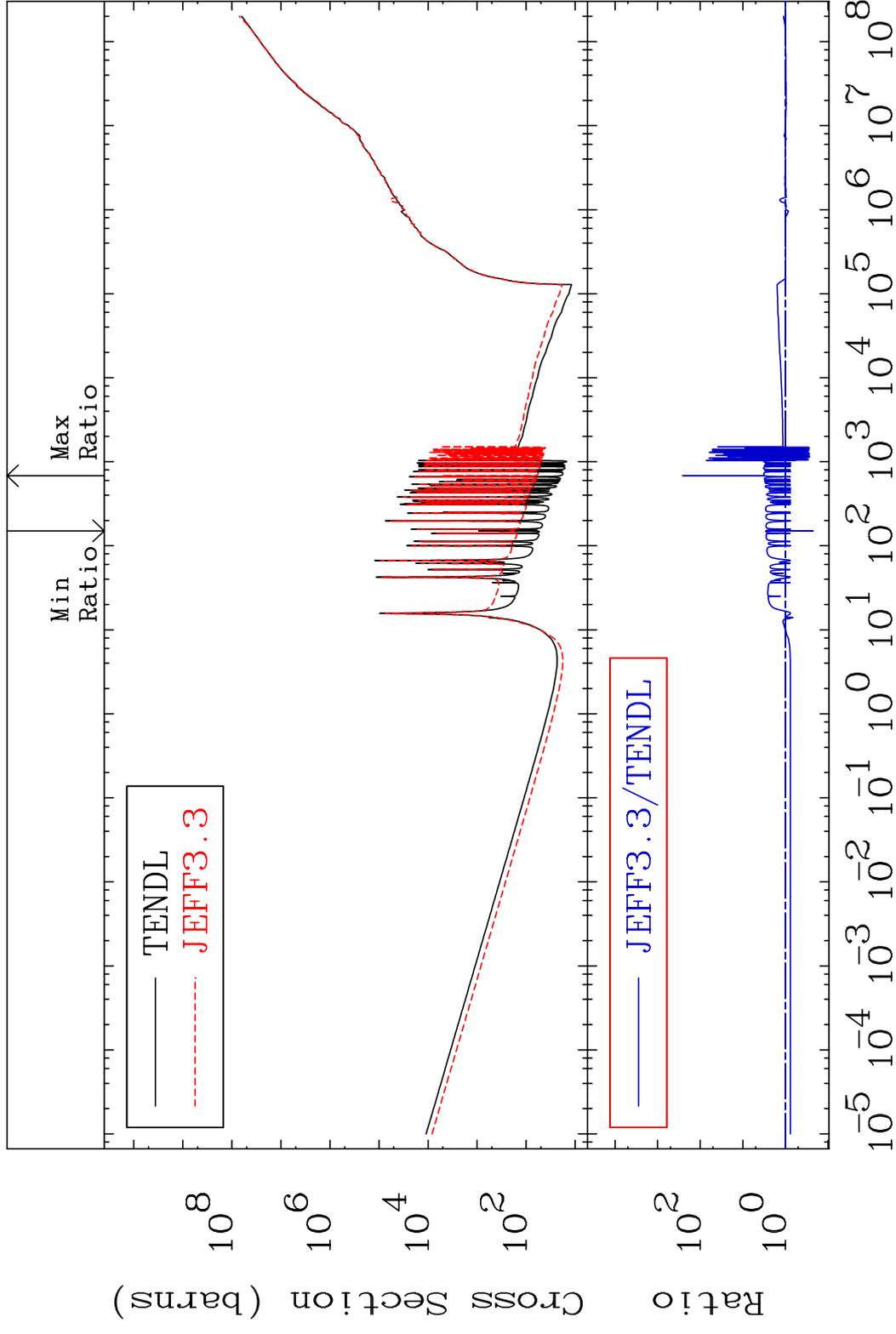
MAT 4440

Kerma elastic Cross Section -80.19 To 6747. %  
44-Ru-101

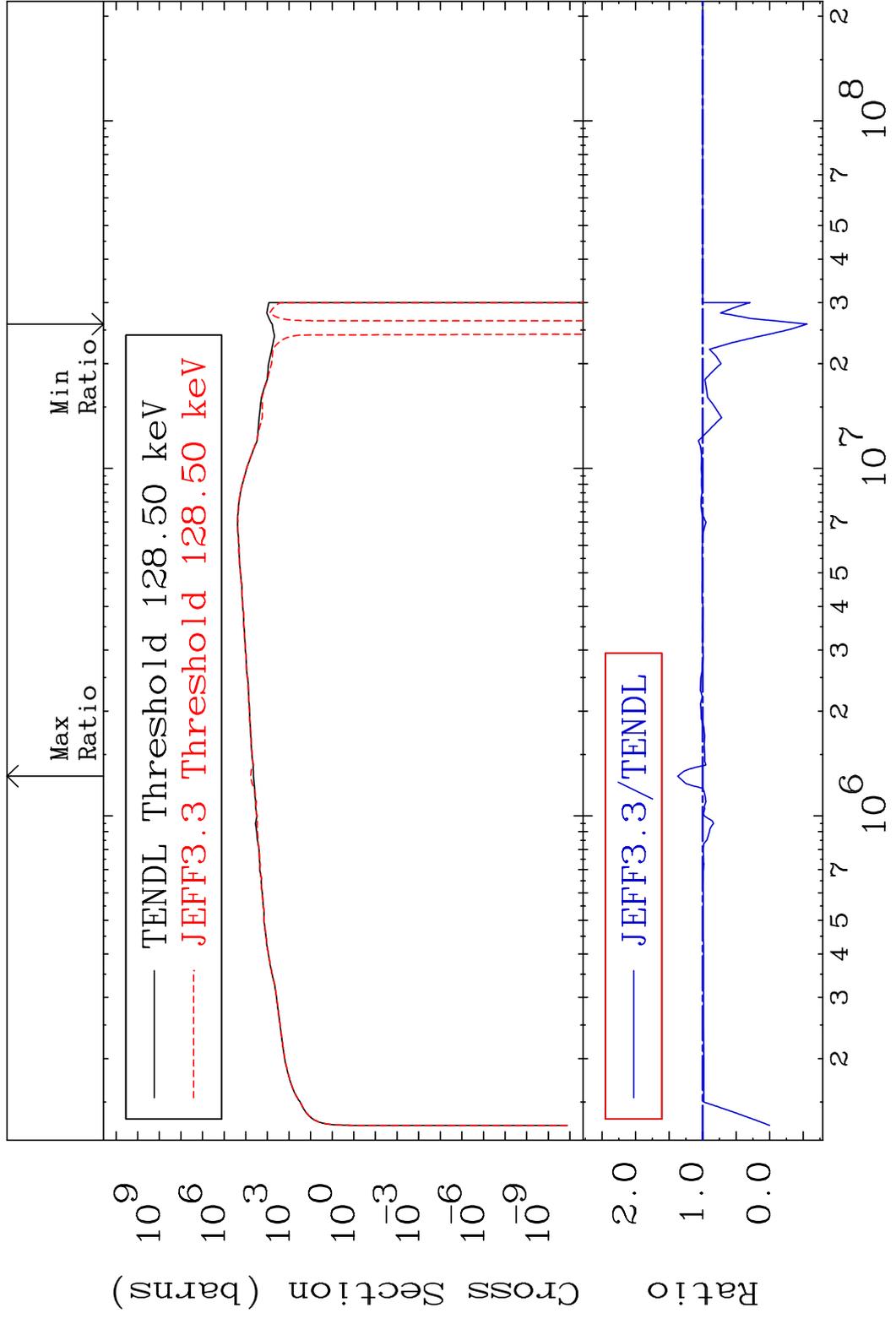


Incident Energy (eV) 44-Ru-101

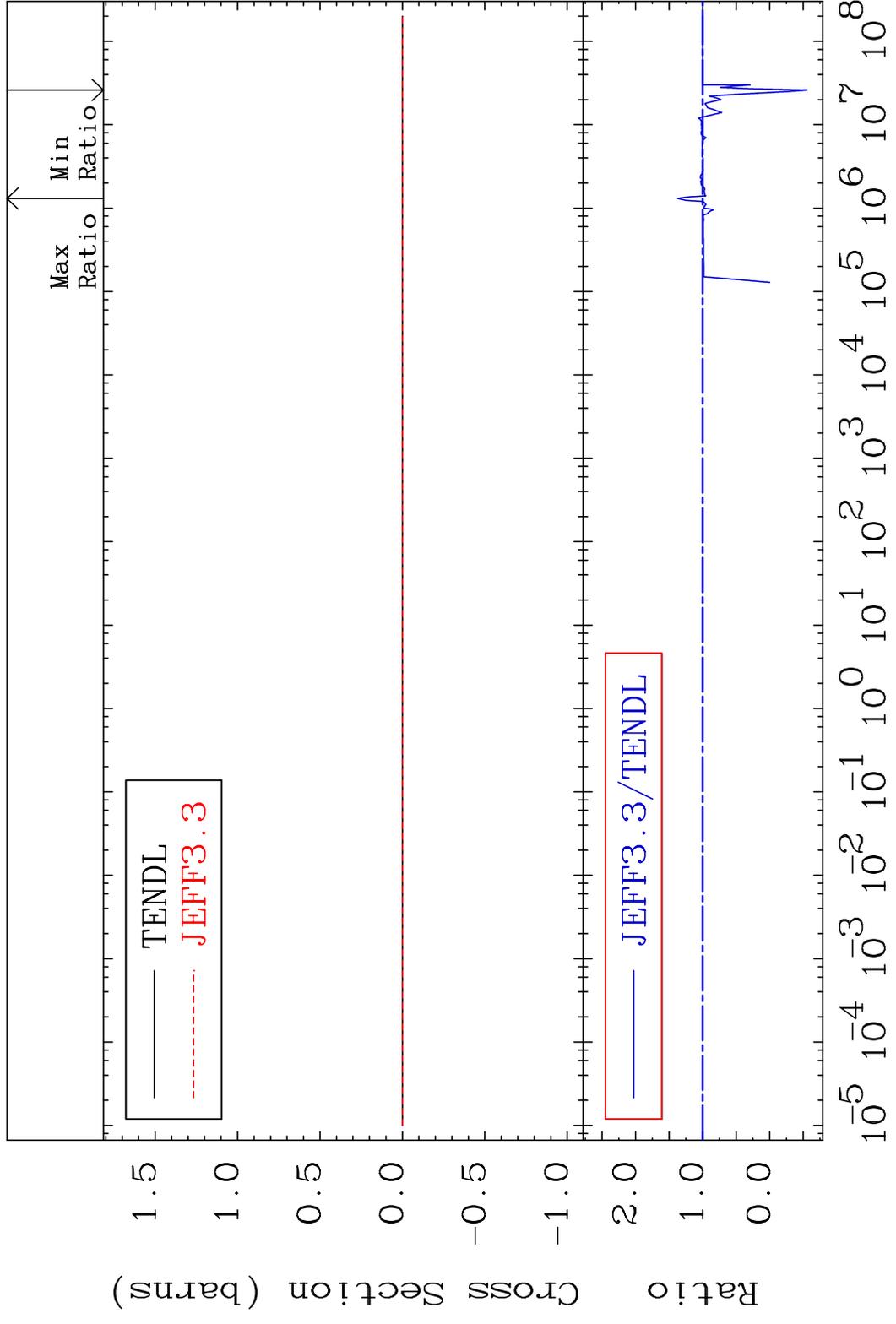
MAT 4440 Kerma non-elastic (all but mt2) 44-Ru-101  
 Cross Section -77.67 To 9999. %



MAT 4440 Kerma inelastic (mt51-91) 44-Ru-101  
 Cross Section -155.7 To 37.18 %

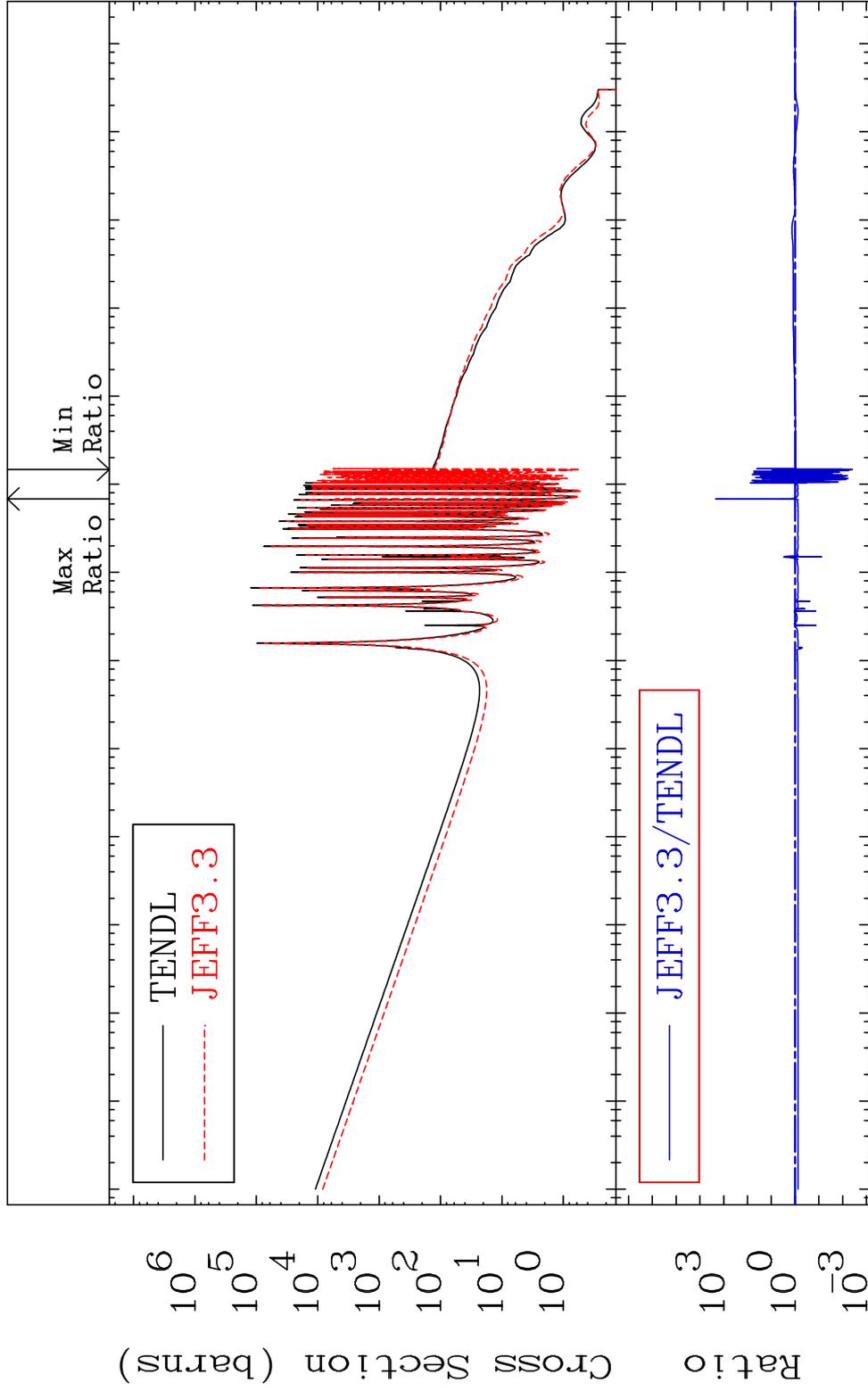


MAT 4440 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-101  
 Cross Section -155.7 To 37.18 %



MAT 4440

Kerma capture (mt102) 44-Ru-101  
Cross Section -99.61 To 9999. %

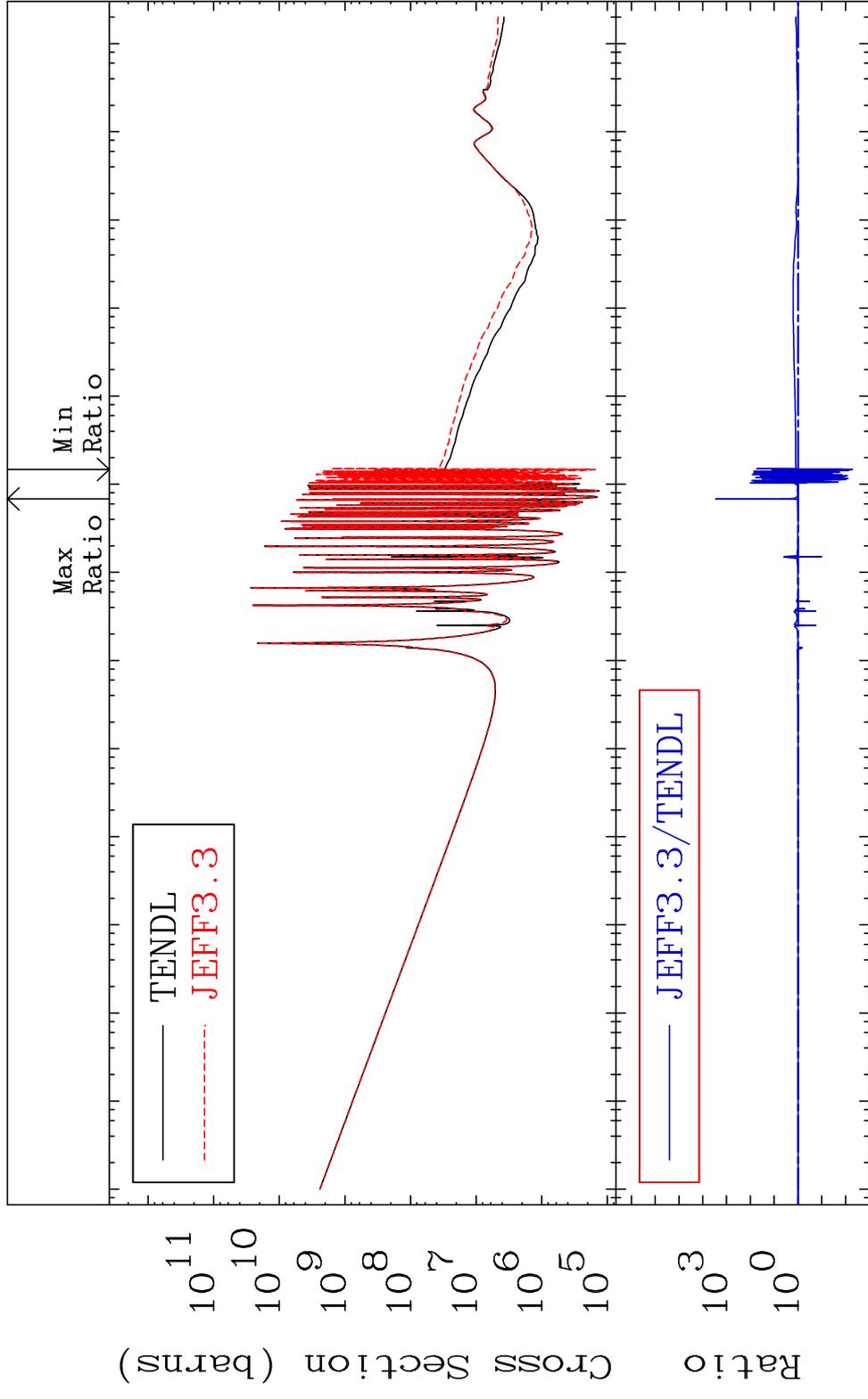


60

Incident Energy (eV)

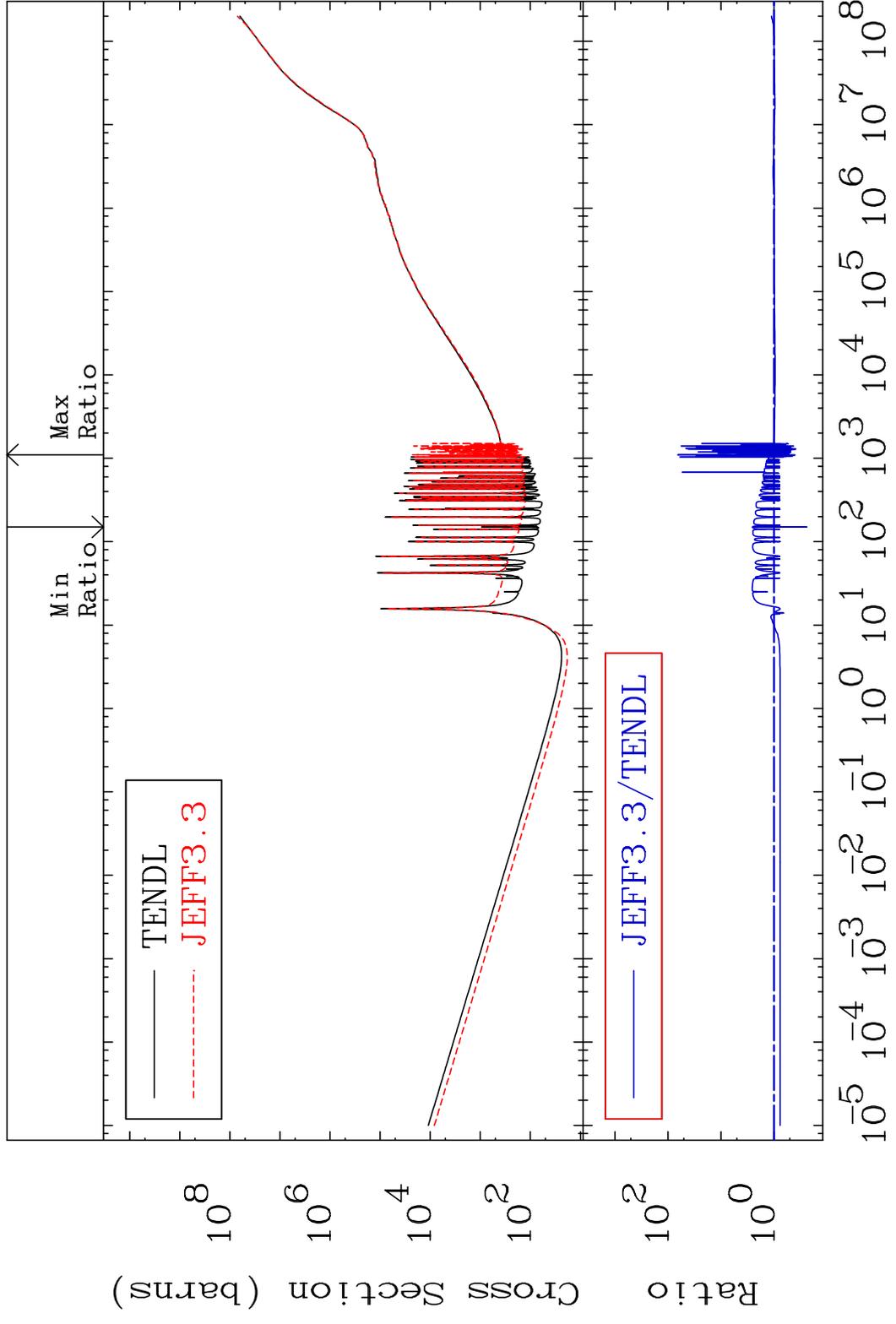
44-Ru-101

MAT 4440 Total photon (eV-barns) 44-Ru-101  
 Cross Section -99.49 To 9999. %

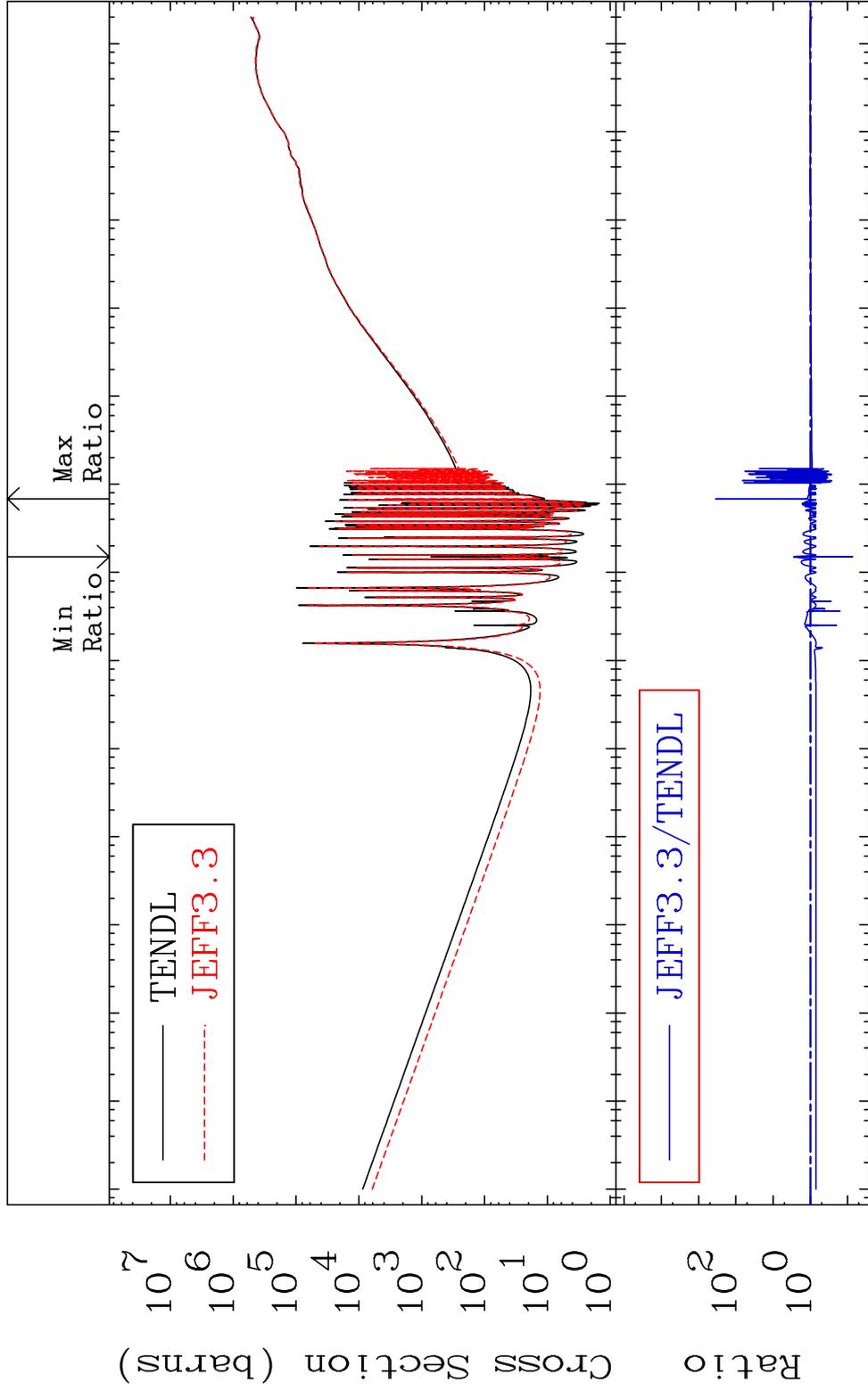


10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

MAT 4440 Total kinematic kerma (high limit) 44-Ru-101  
 Cross Section -76.29 To 6432. %



MAT 4440      Dpa total (eV-barns)      44-Ru-101  
 Cross Section      -92.61 To 9999. %



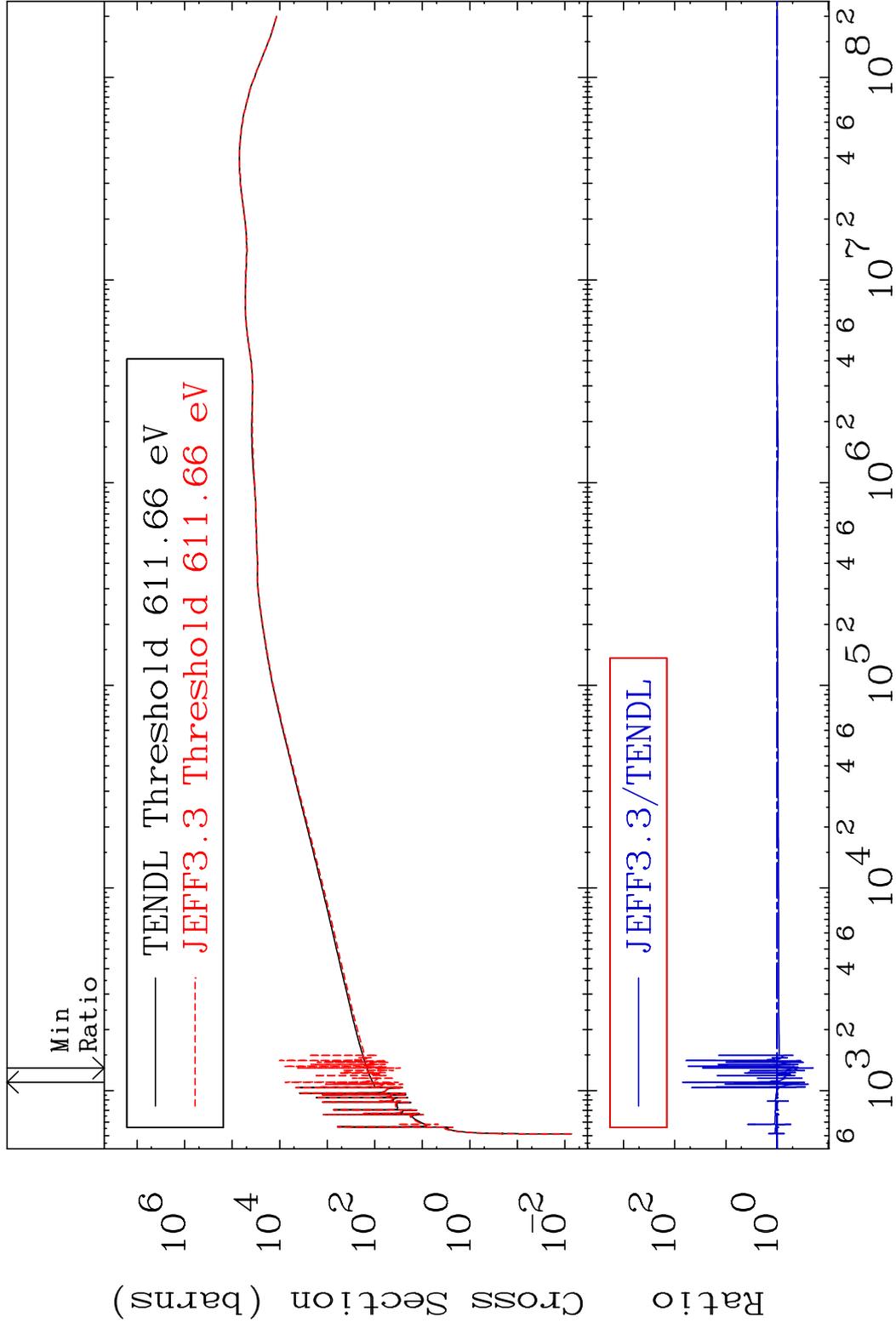
63      Incident Energy (eV)      44-Ru-101

MAT 4440

Dpa elastic (mt2)

44-Ru-101

Cross Section -80.19 To 6855. %

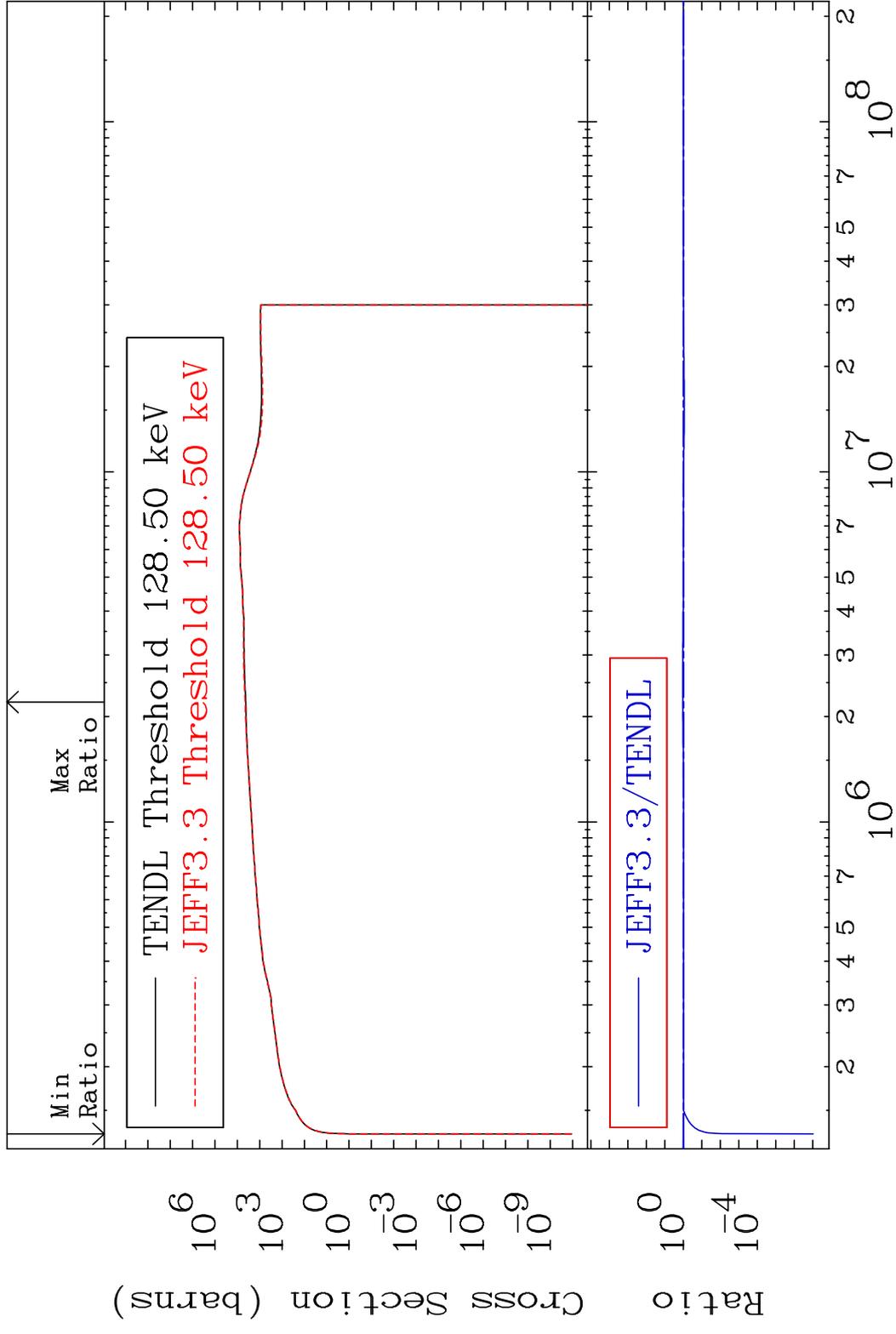


64

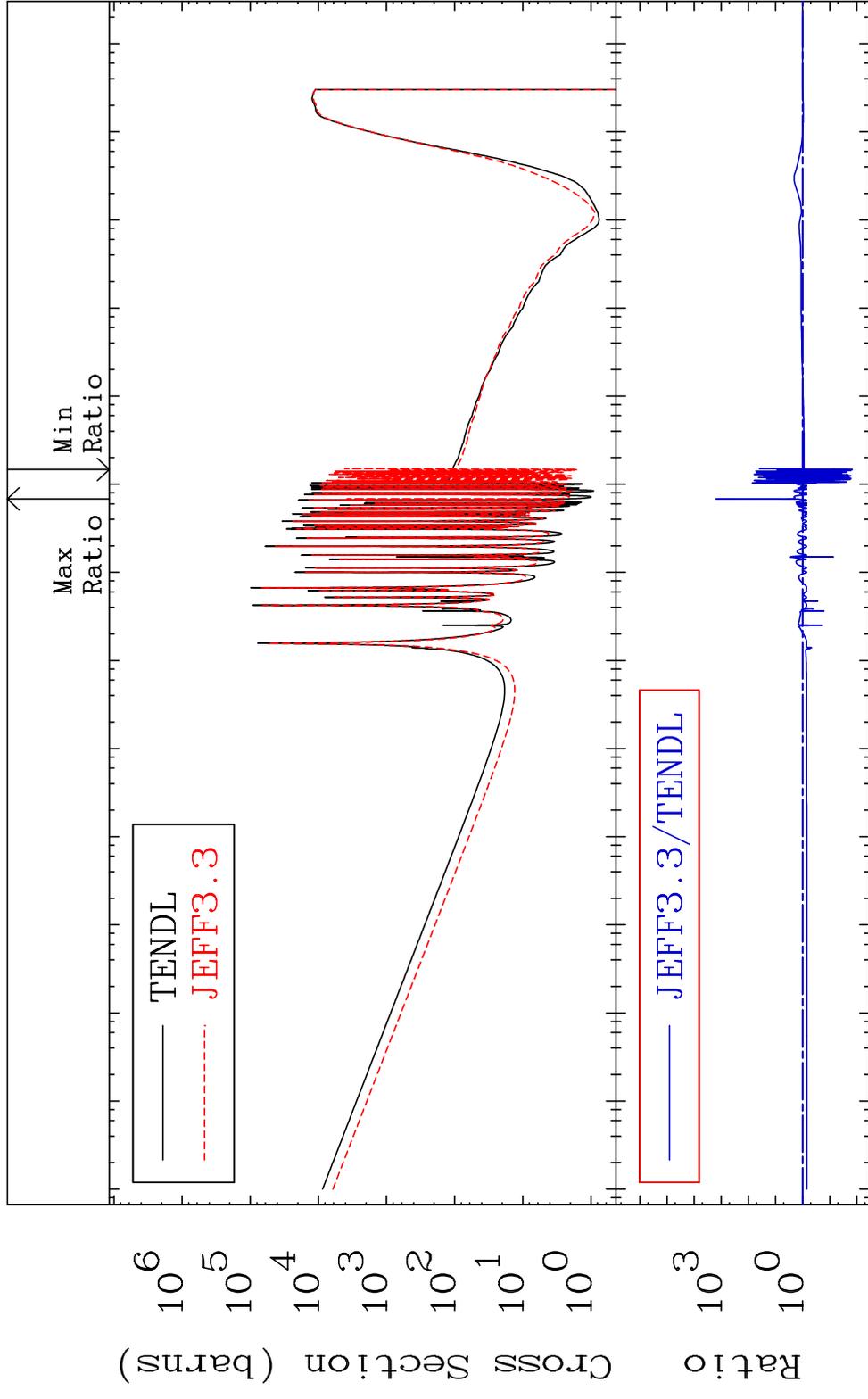
Incident Energy (eV)

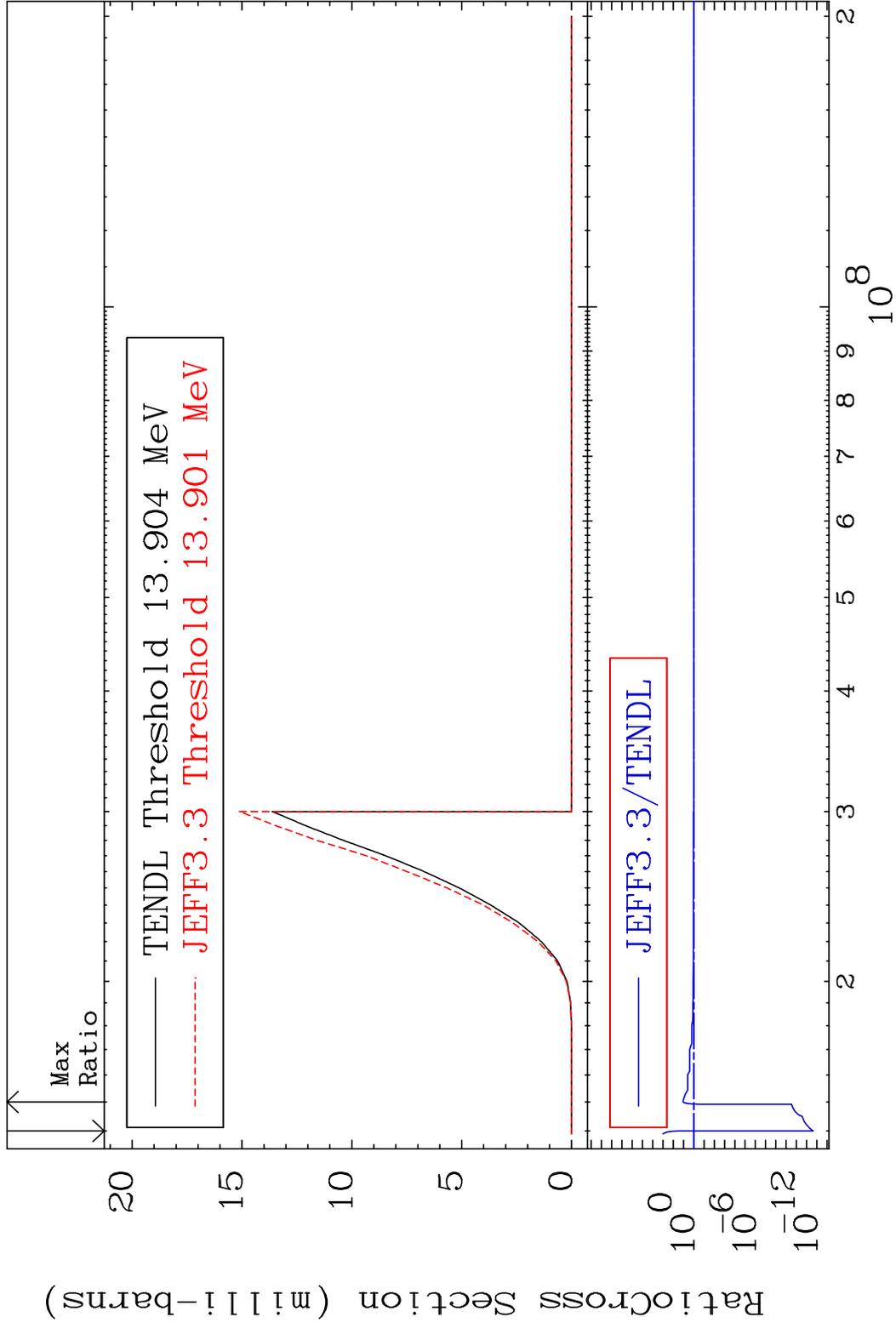
44-Ru-101

MAT 4440      Dpa inelastic (mt51-91)      44-Ru-101  
 Cross Section      -100.0 To 6.941 %

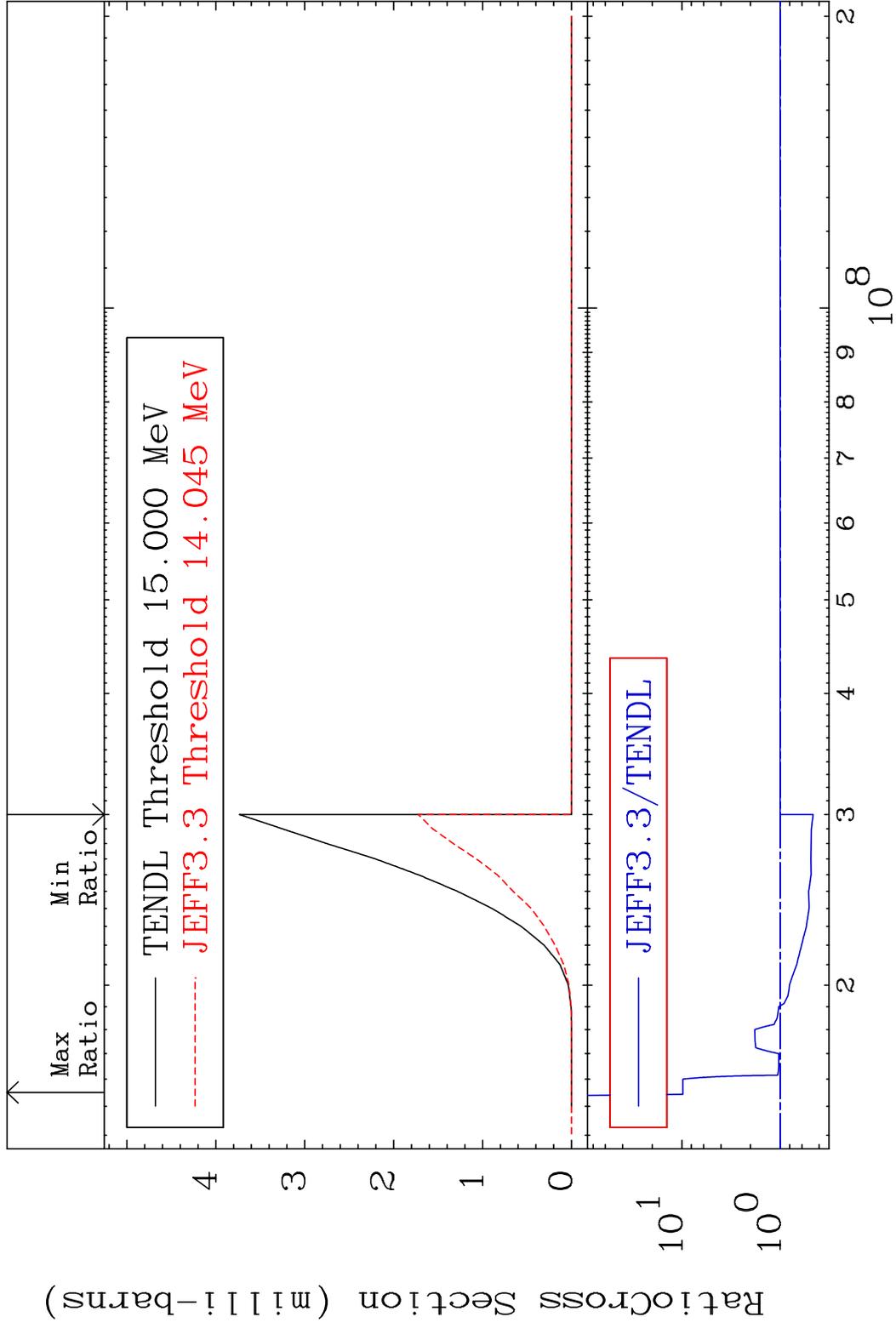


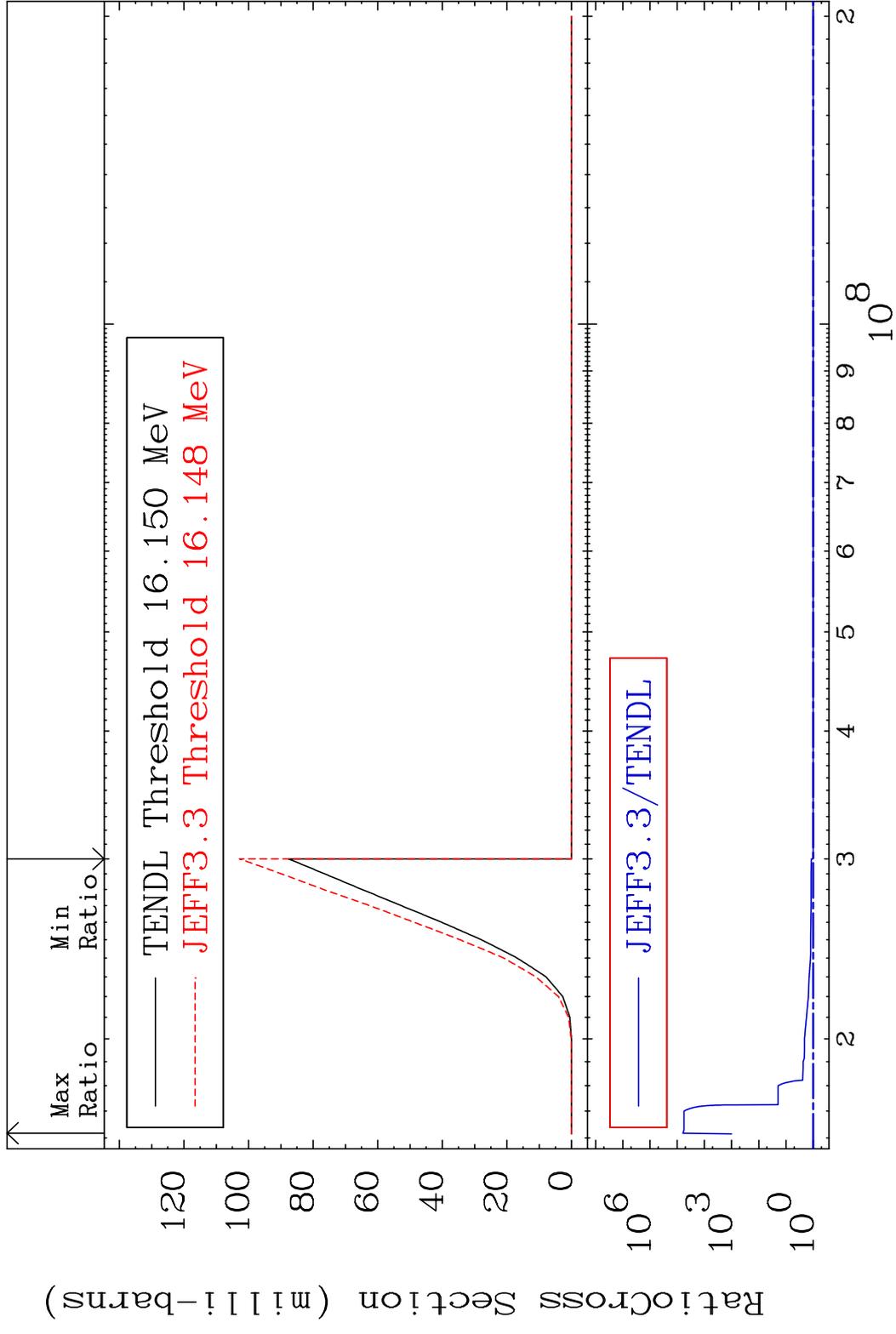
MAT 4440 Dpa disappearance (mt102 -120) 44-Ru-101  
 Cross Section -98.55 To 9999. %

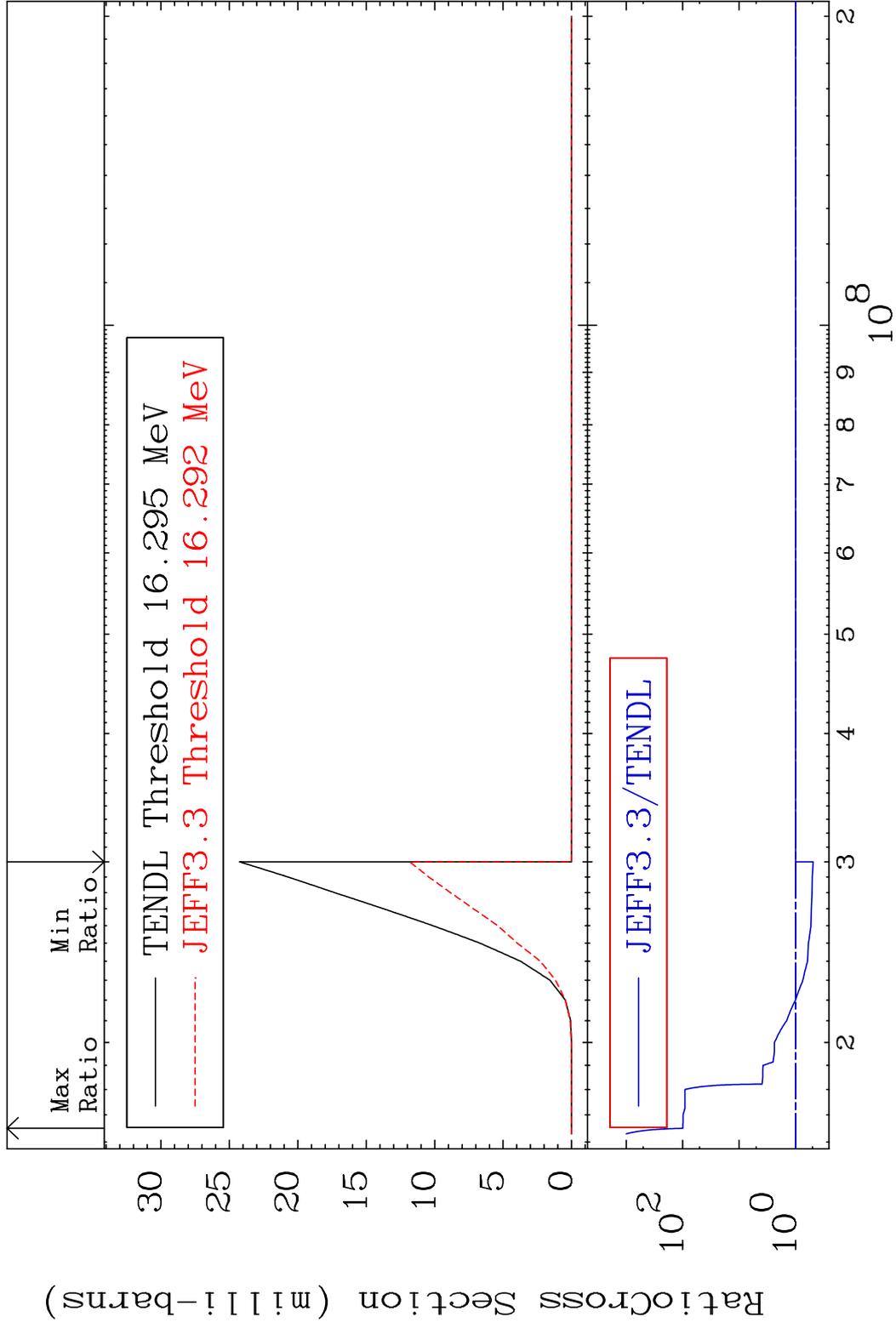




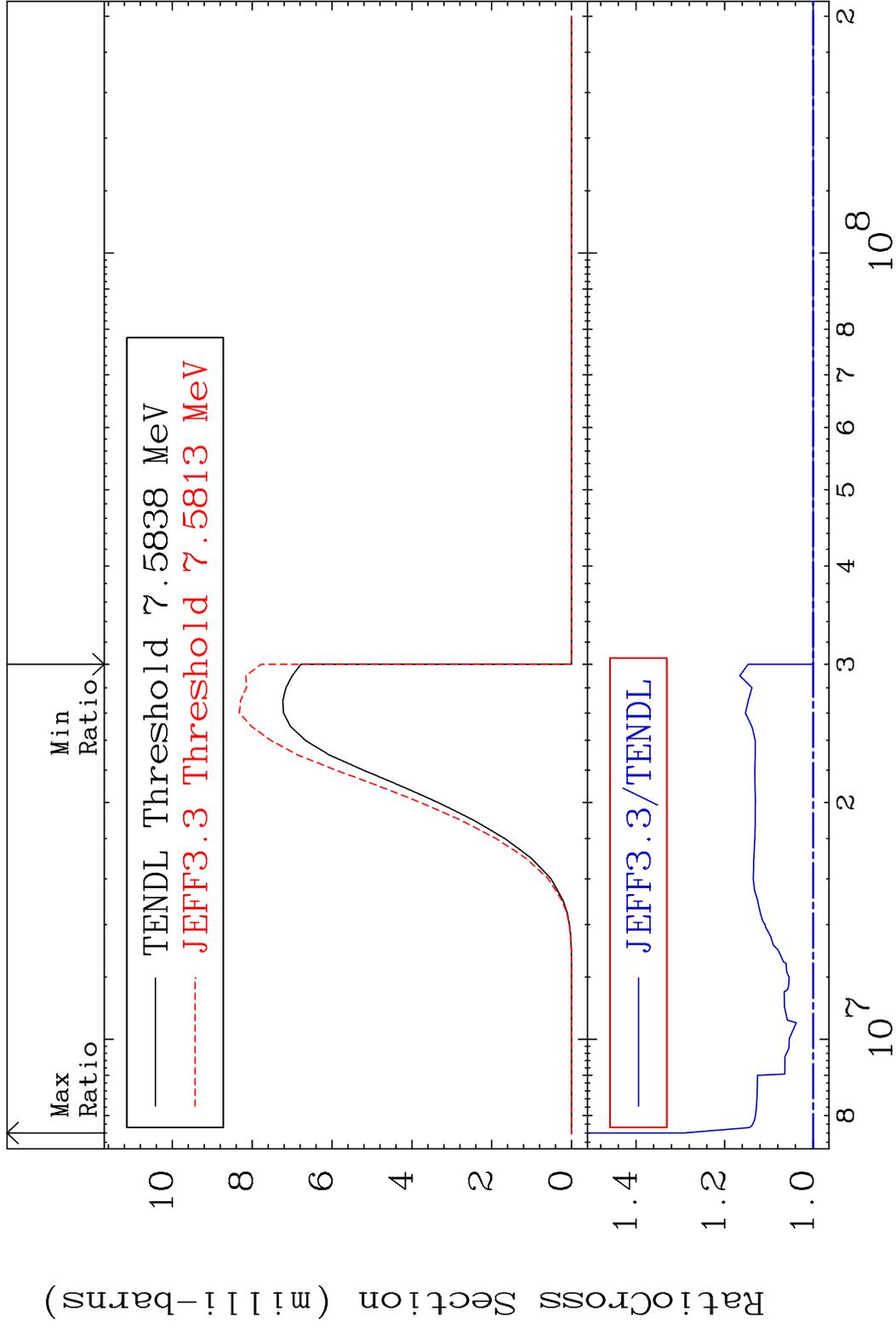
MAT 4440 (n, n') d:43-Tc-99m2 44-Ru-101  
 Radionuclide Production Cross Section 53e671d10 877.2 %



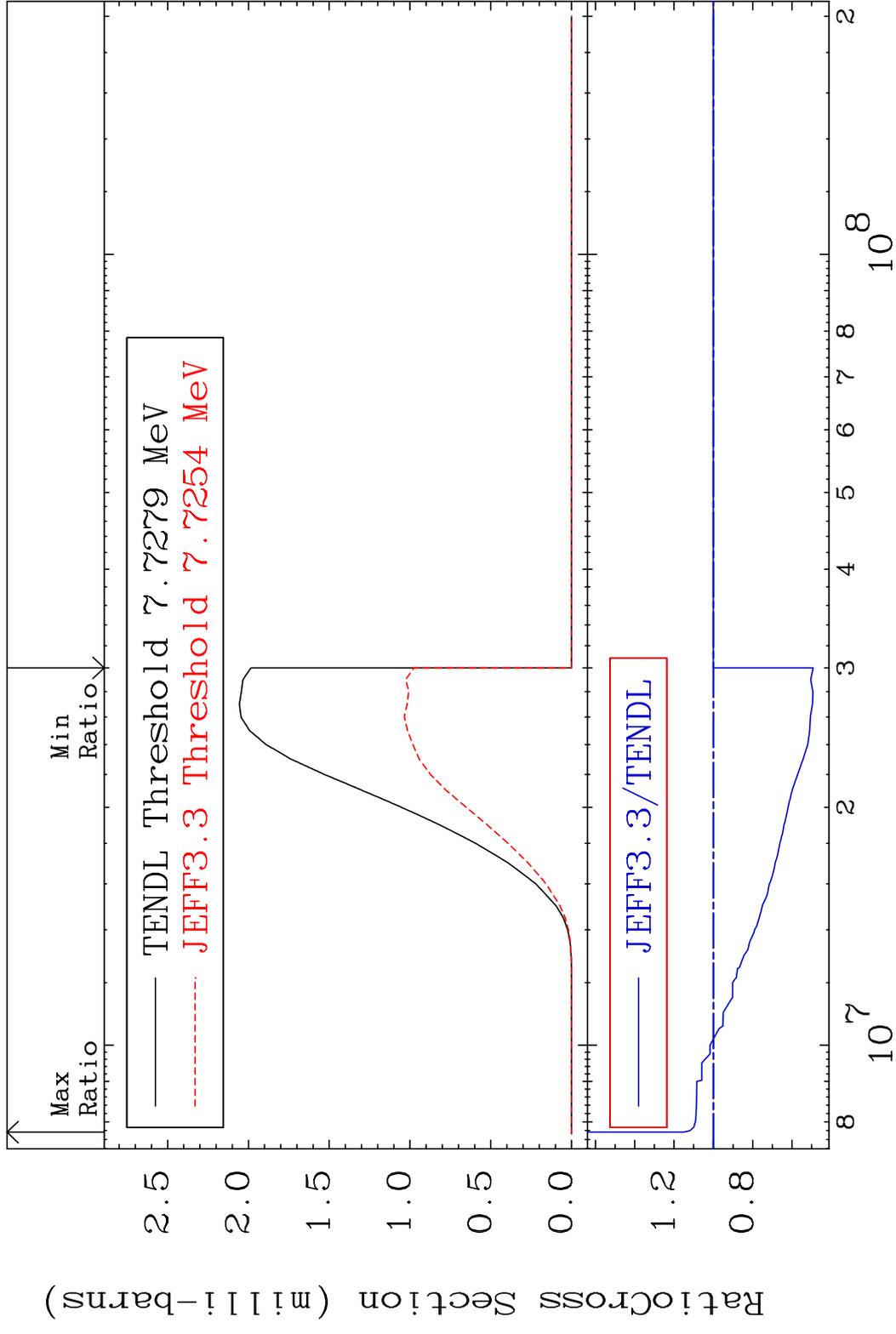




MAT 4440 (n, t): 43-Tc-99g 44-Ru-101  
 Radionuclide Production Cross Section 29.43 %



MAT 4440 (n,t):43-Tc-99m2 44-Ru-101  
 Radionuclide Production Cross Section 58.61 mb 15.53 %



MAT 4440 (n, p)  $\alpha$ :41-Nb-97g 44-Ru-101  
 Radionuclide Production Cross Section 4114. %

