

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

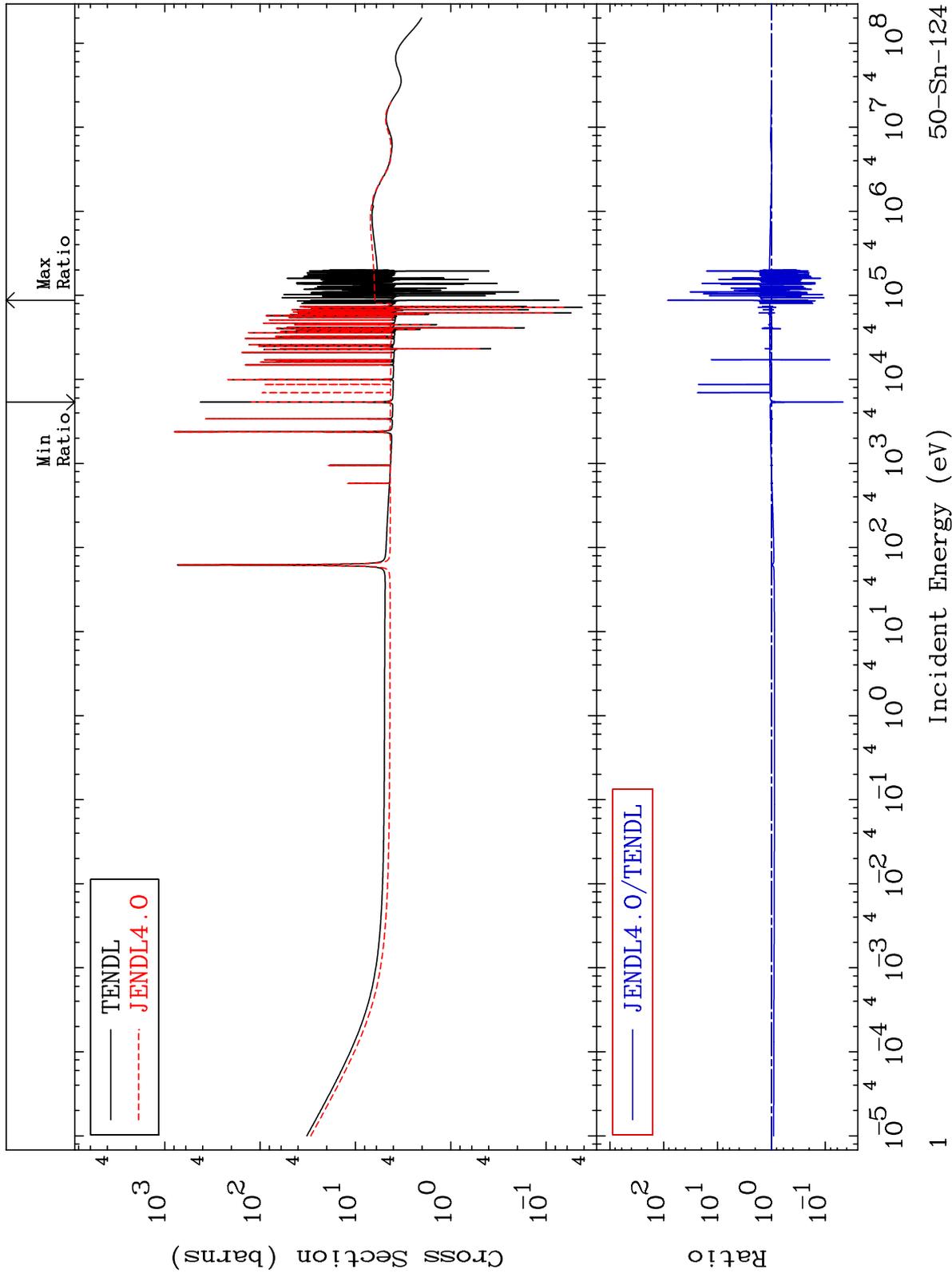
MAT 5061

Total

50-Sn-124

Cross Section

-95.28 To 8364. %



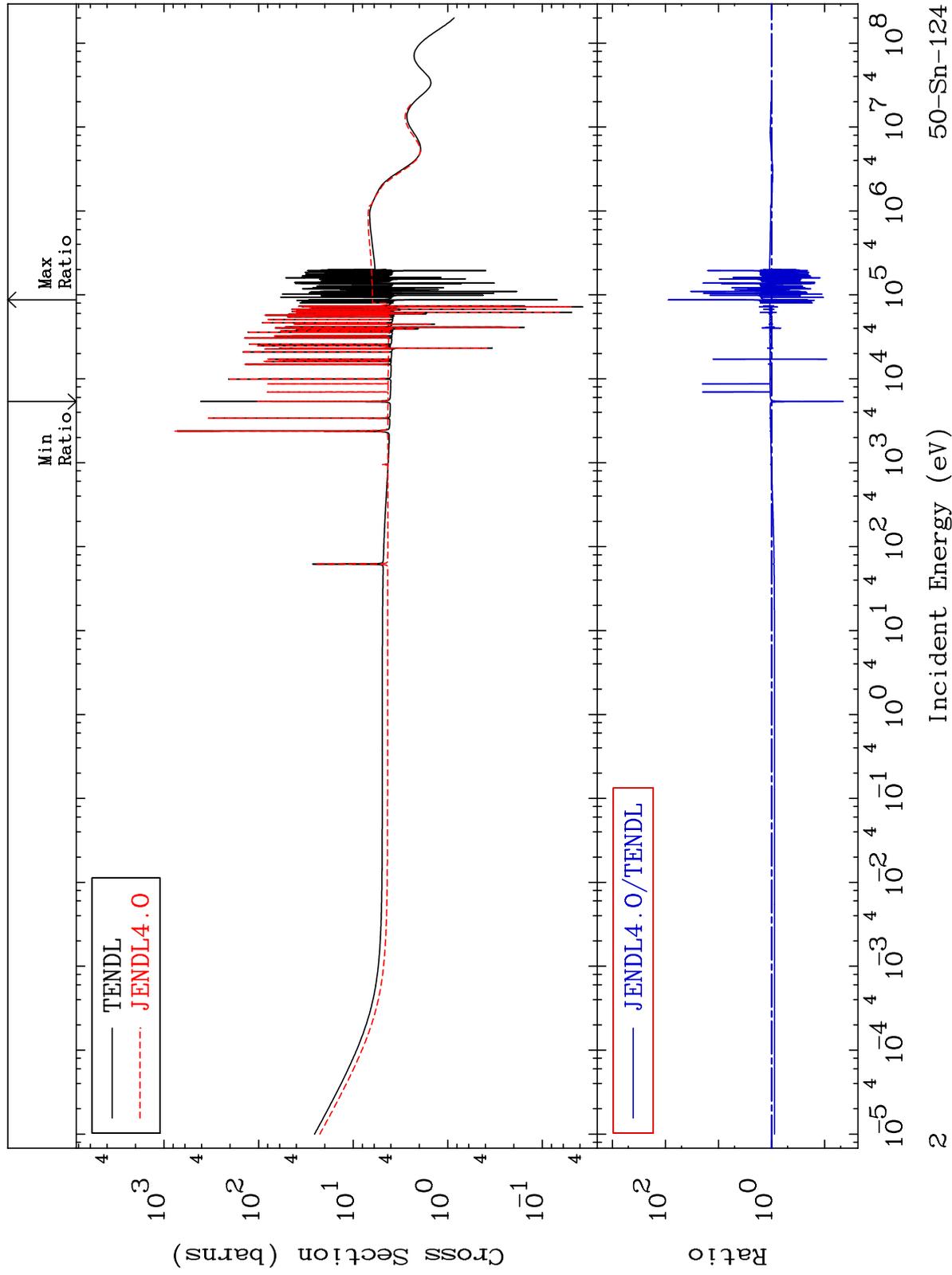
Incident Energy (eV)

50-Sn-124

MAT 5061

Elastic  
Cross Section

50-Sn-124  
-95.50 To 8811. %



50-Sn-124

Incident Energy (eV)

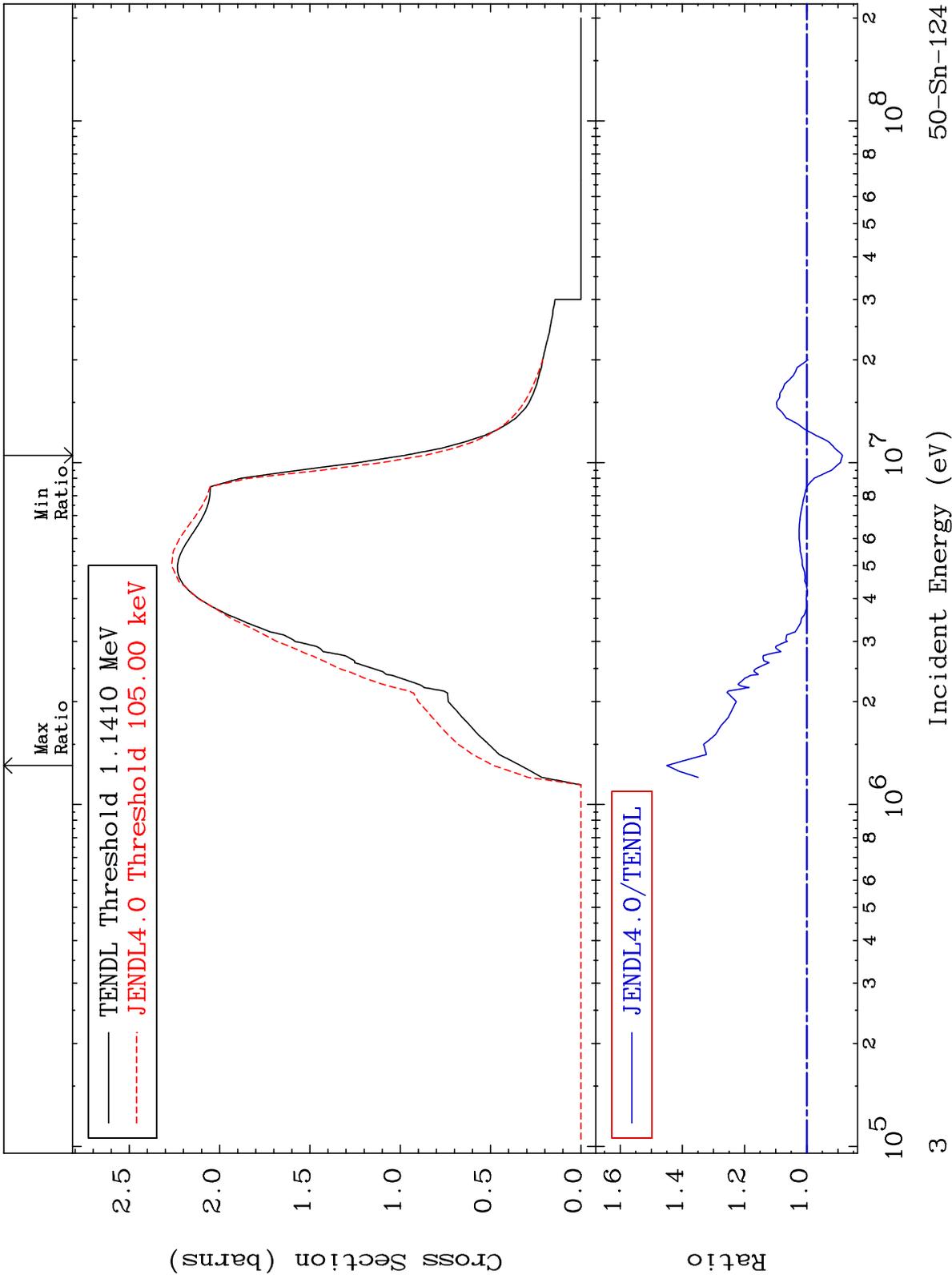
MAT 5061

50-Sn-124

-11.50 To 44.97 %

Inelastic

Cross Section



3

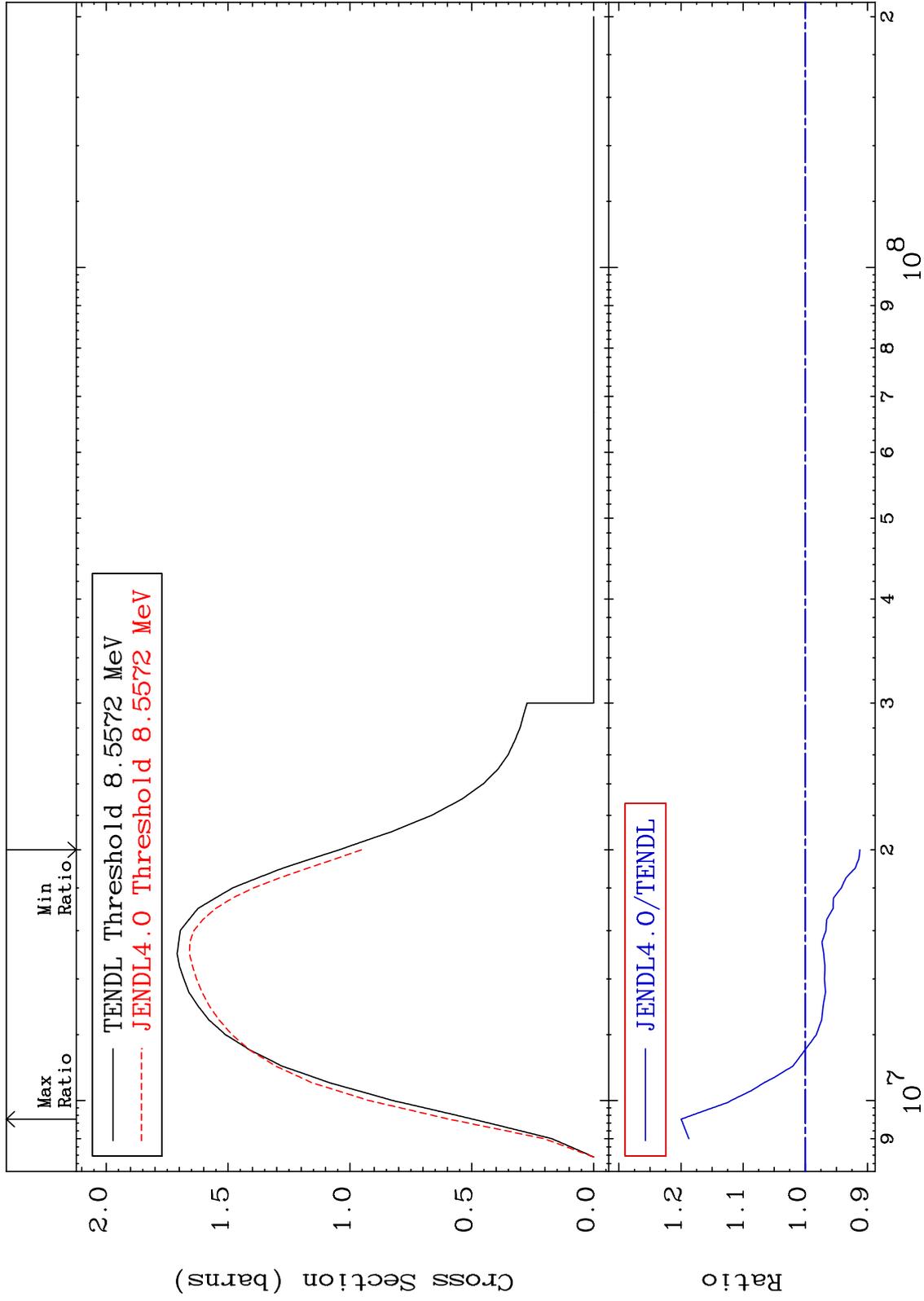
MAT 5061

(n,2n)

50-Sn-124

Cross Section

-8.781 To 19.98 %



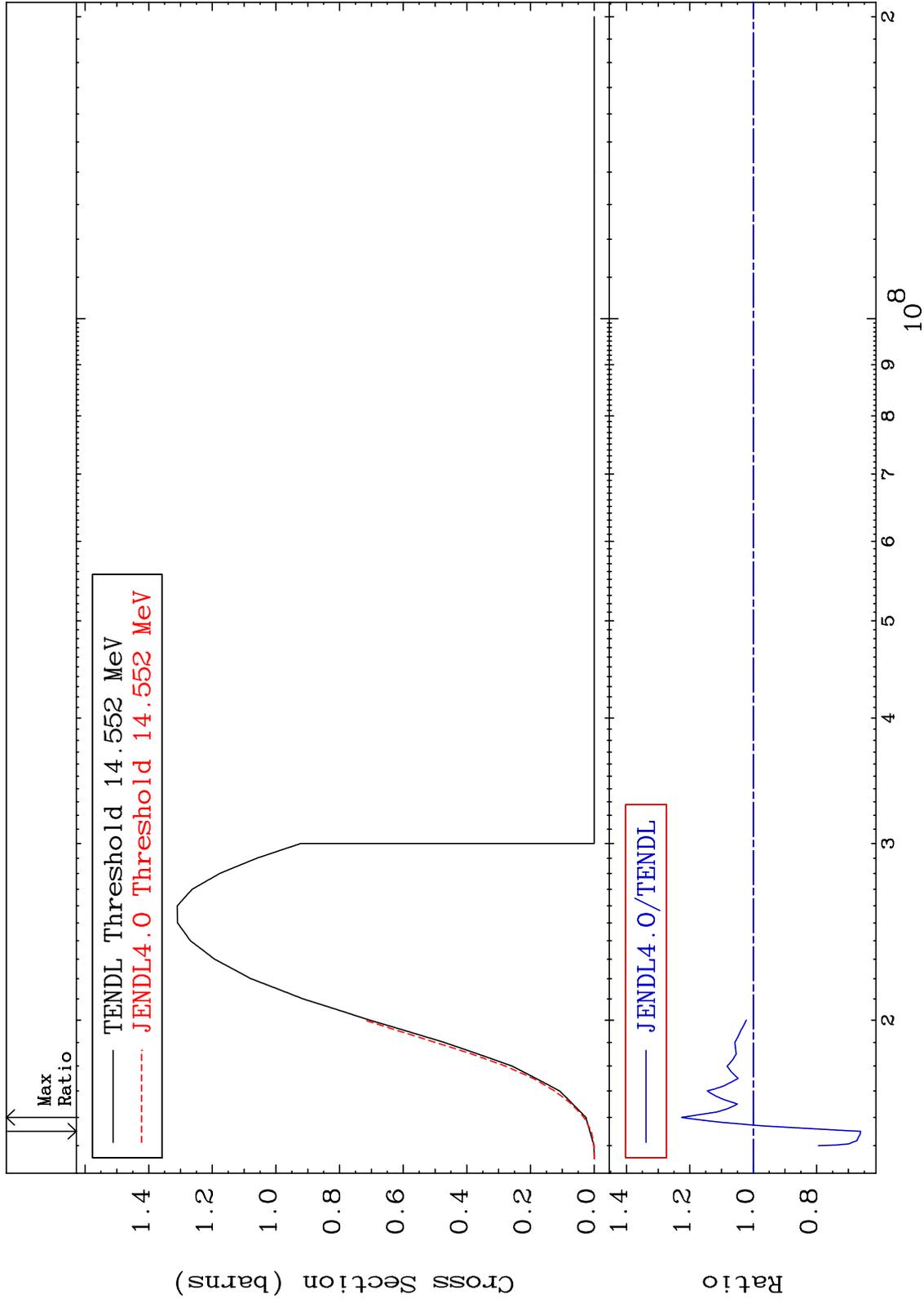
MAT 5061

(n,3n)

50-Sn-124

Cross Section

-33.86 To 22.56 %



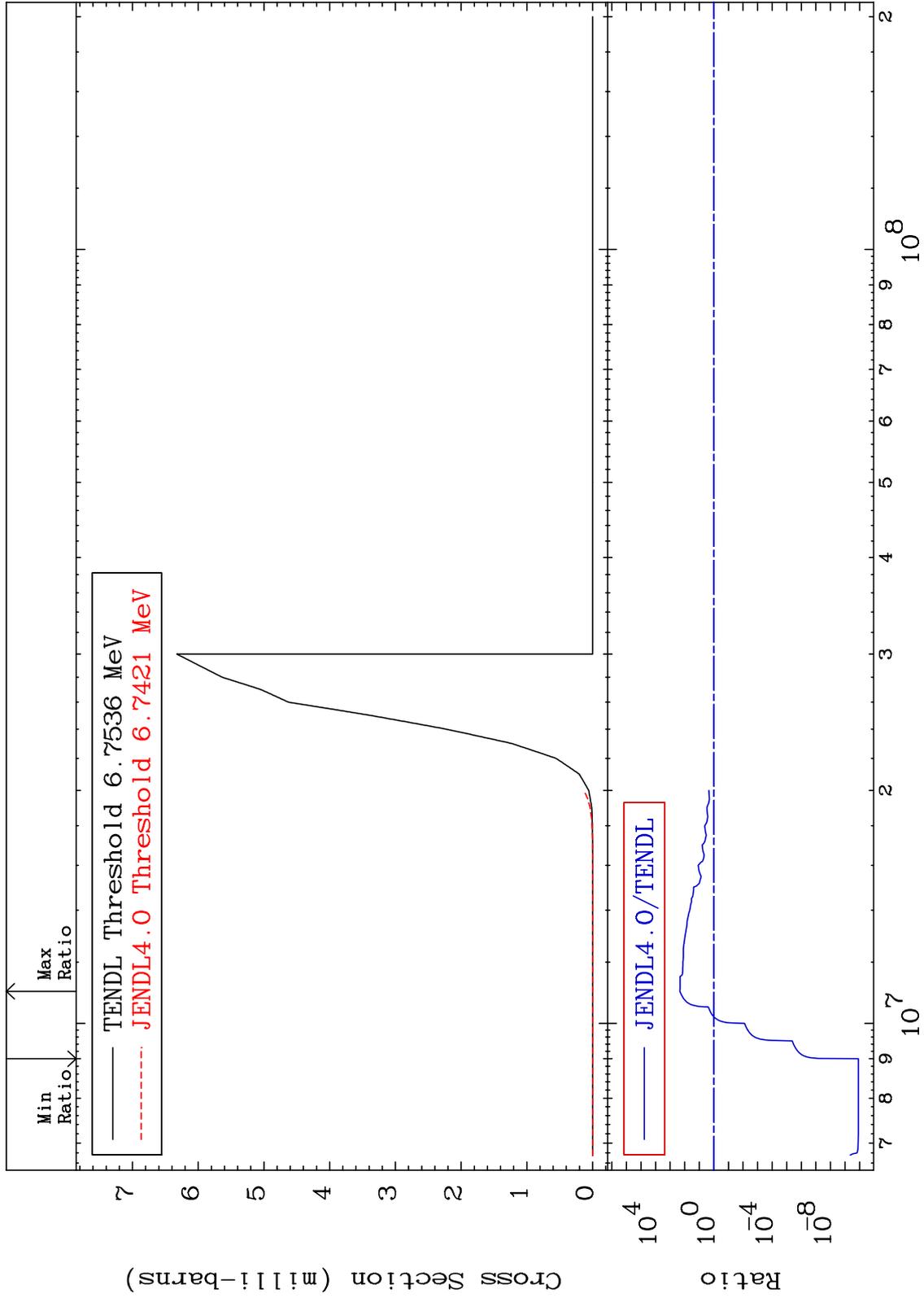
MAT 5061

(n,n')  $\alpha$

50-Sn-124

Cross Section

-100.0 To 9999. %



6

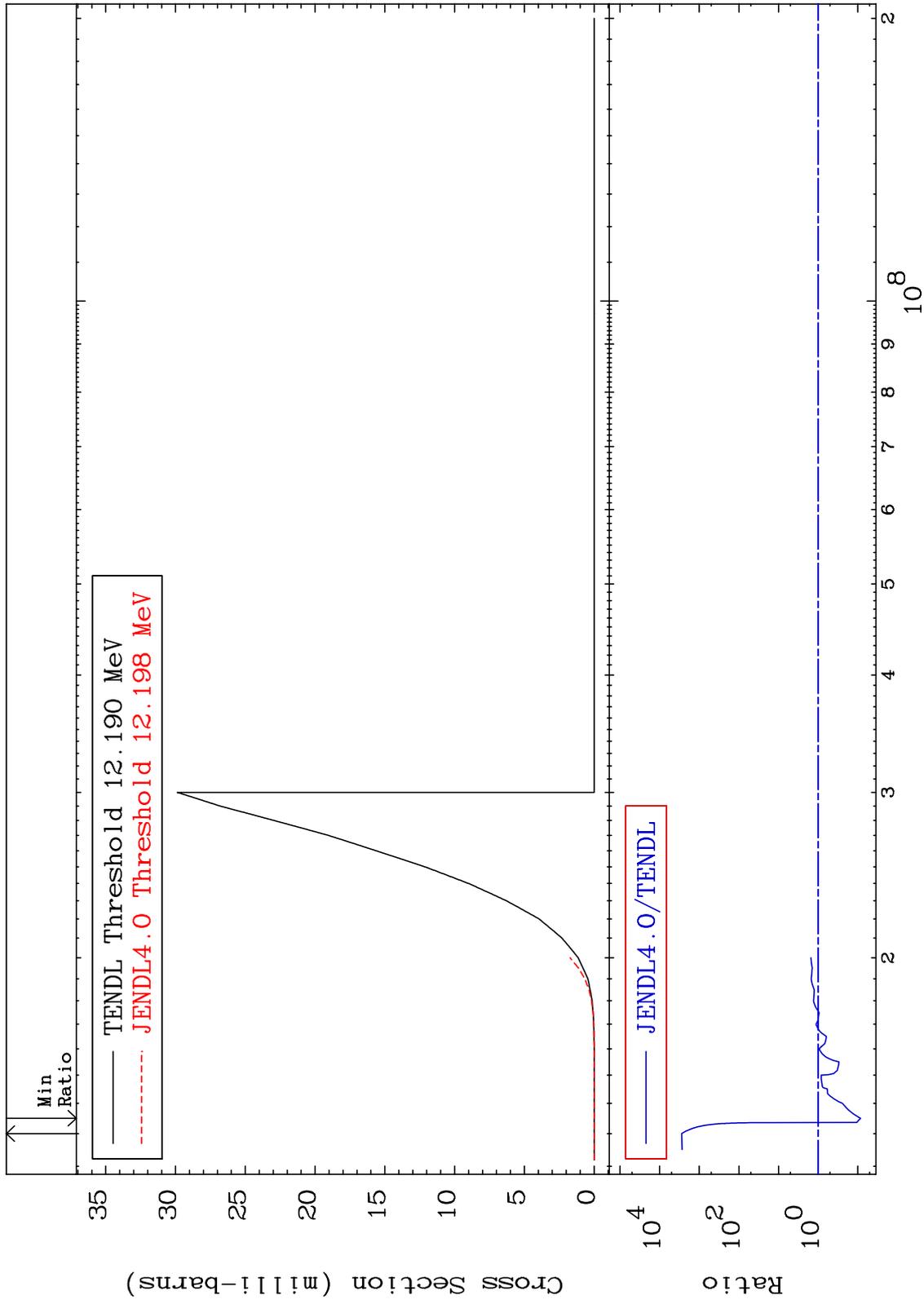
Incident Energy (eV)

50-Sn-124

MAT 5061

(n,n') p  
Cross Section

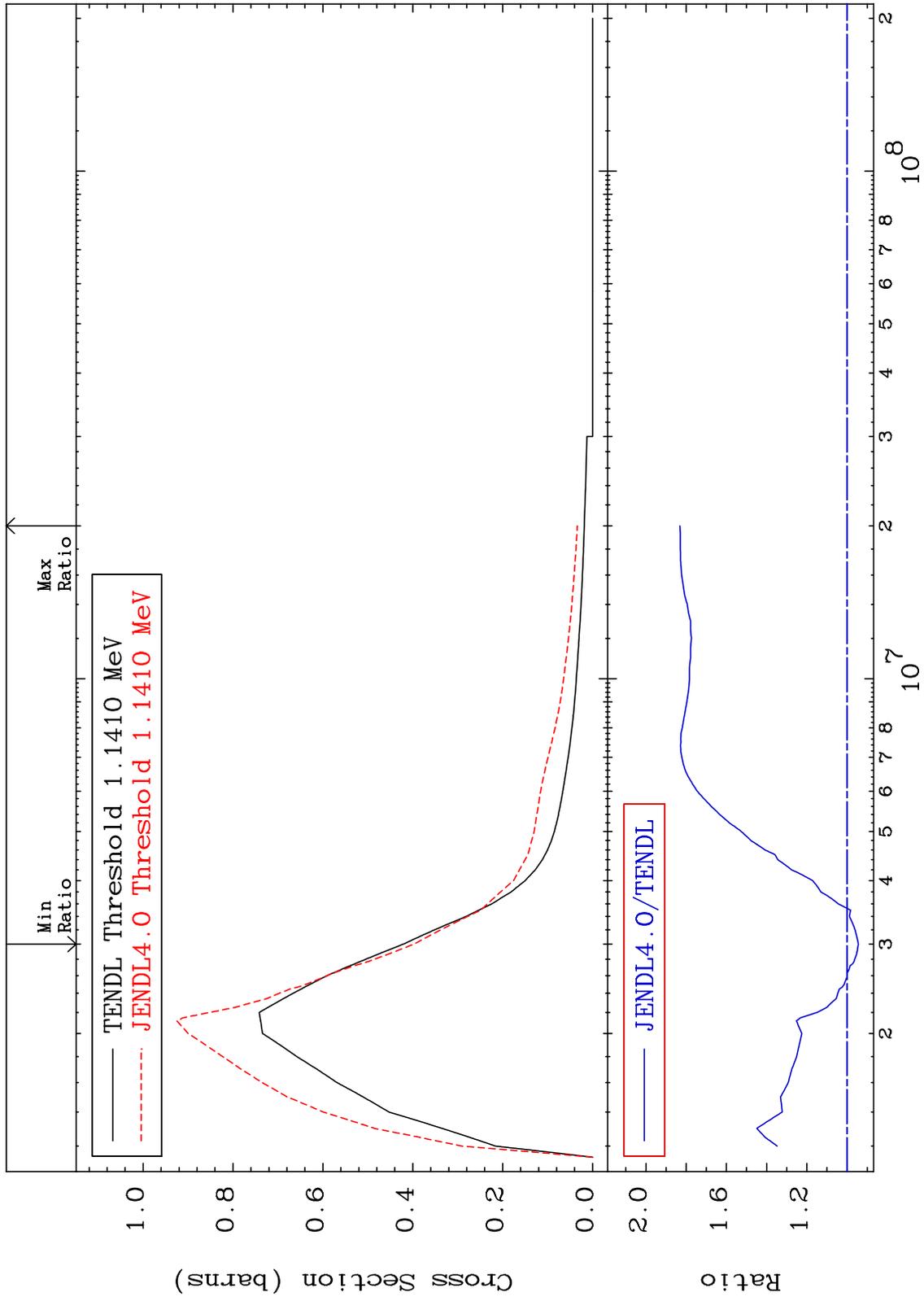
50-Sn-124  
-91.58 To 9999. %



MAT 5061

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

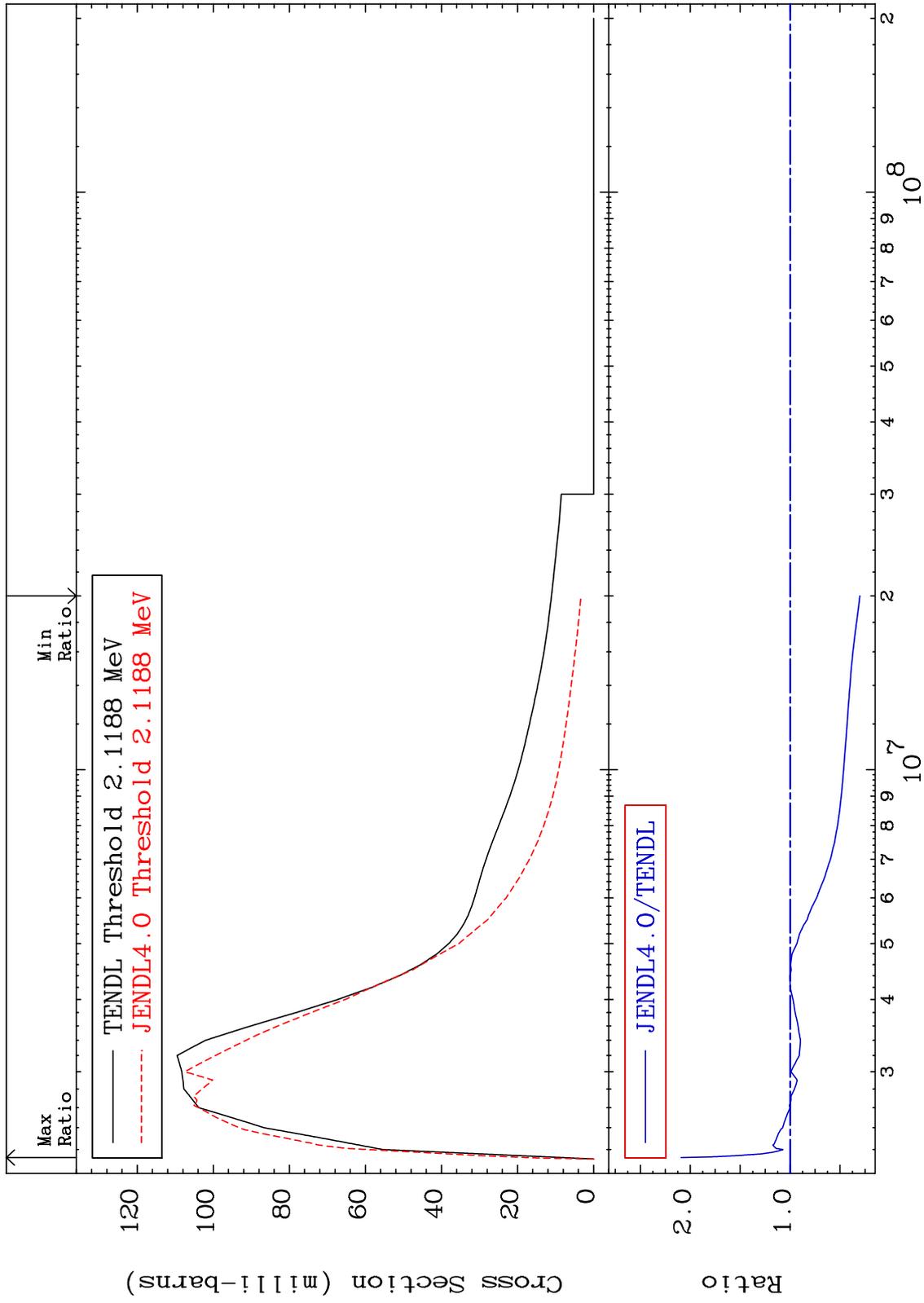
50-Sn-124  
-5.626 To 83.11 %



MAT 5061

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

50-Sn-124  
-69.90 To 109.1 %



9

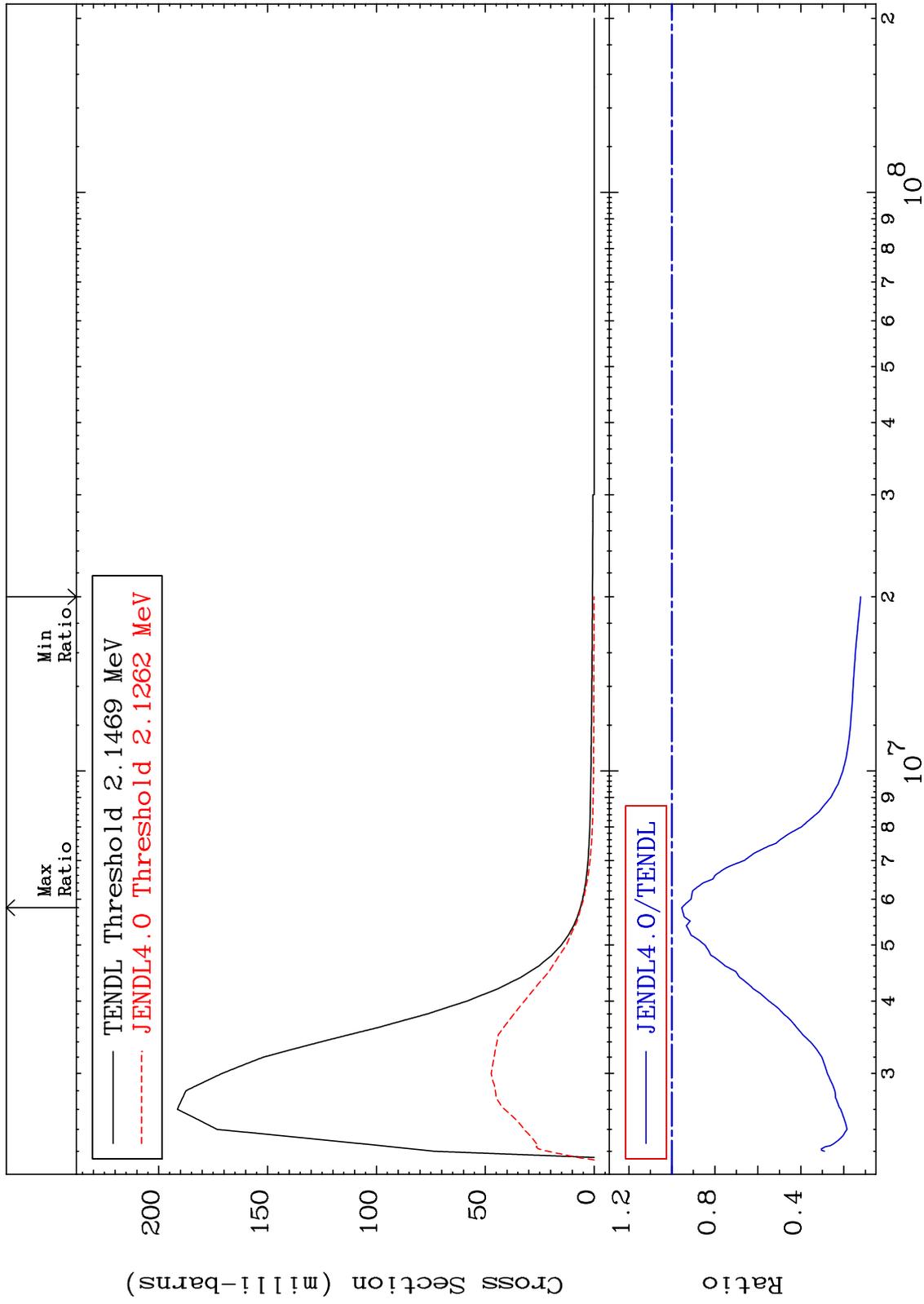
Incident Energy (eV)

50-Sn-124

MAT 5061

MT= 53 (n,n') Level  
Cross Section

50-Sn-124  
-87.82 To -4.590%



10

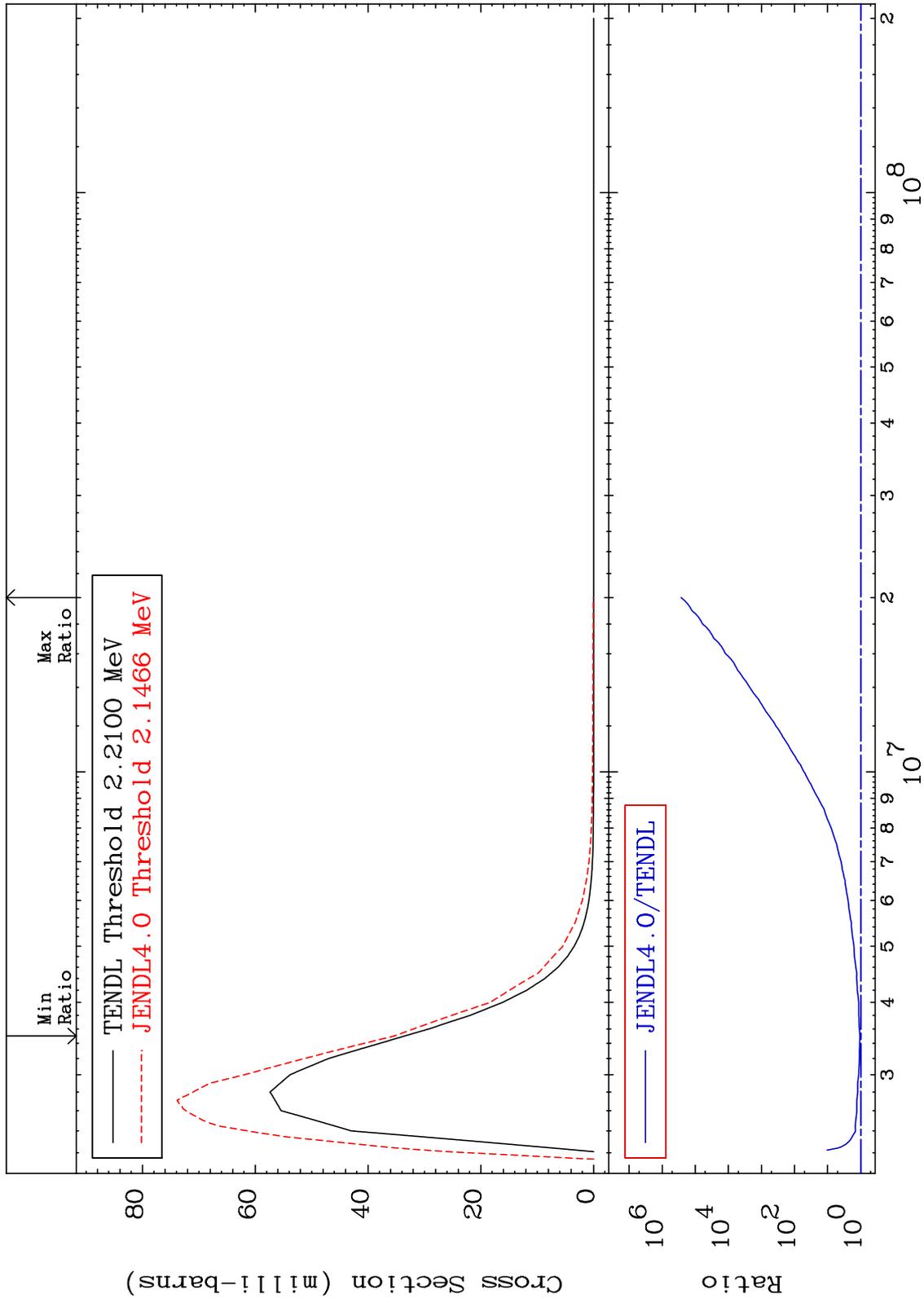
Incident Energy (eV)

50-Sn-124

MAT 5061

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

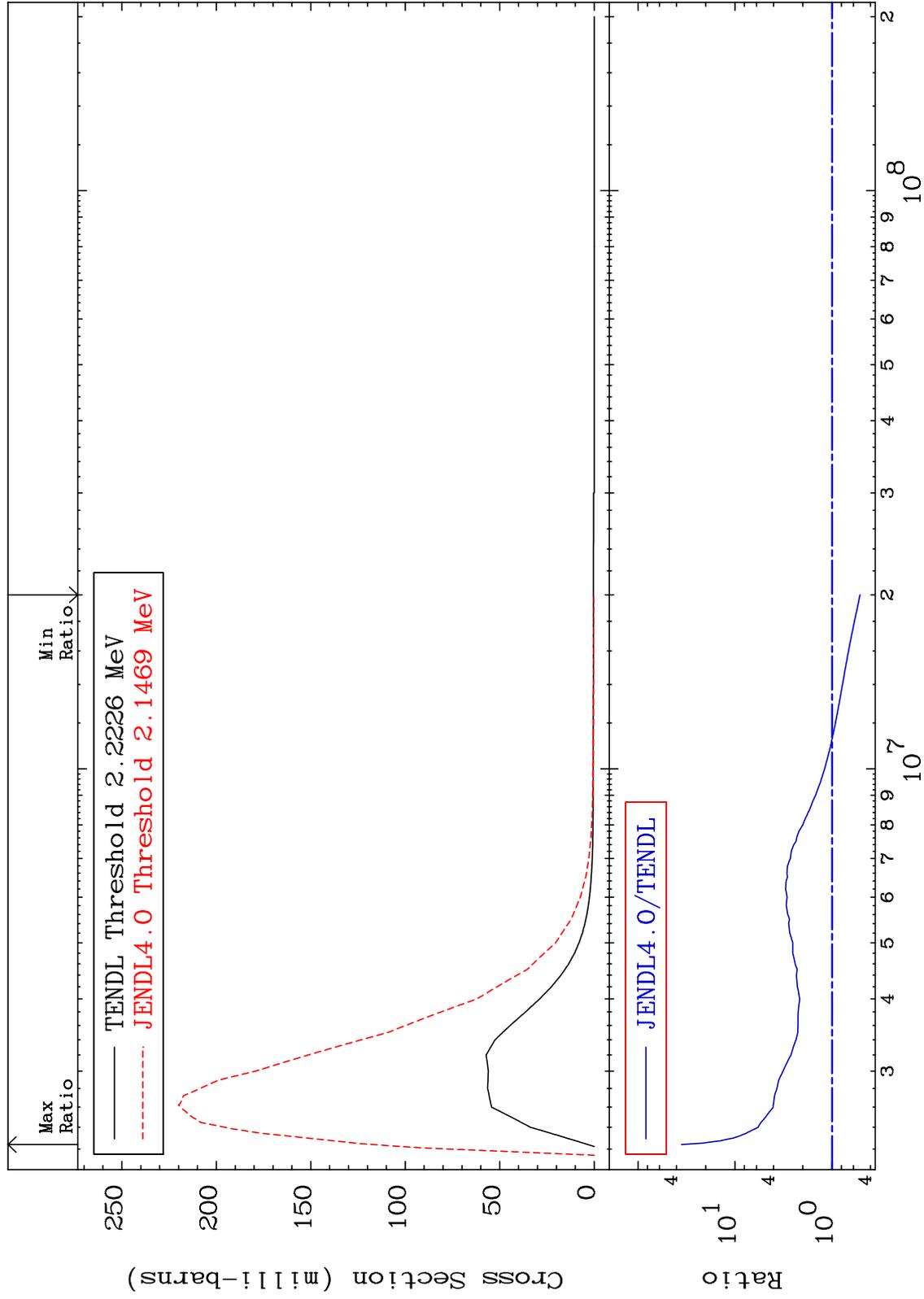
50-Sn-124  
5.430 To 9999. %



MAT 5061

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

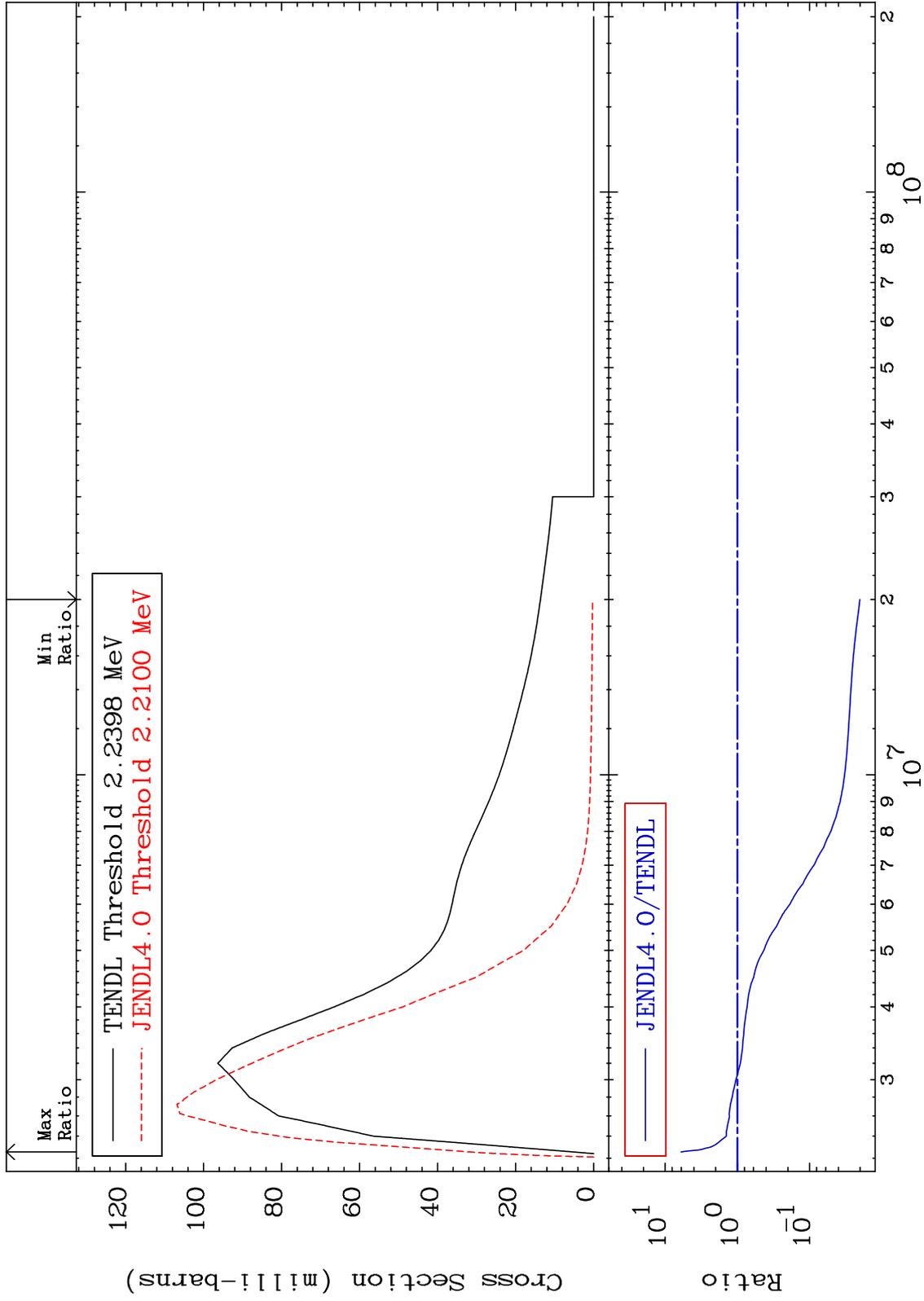
50-Sn-124  
-48.64 To 3454. %



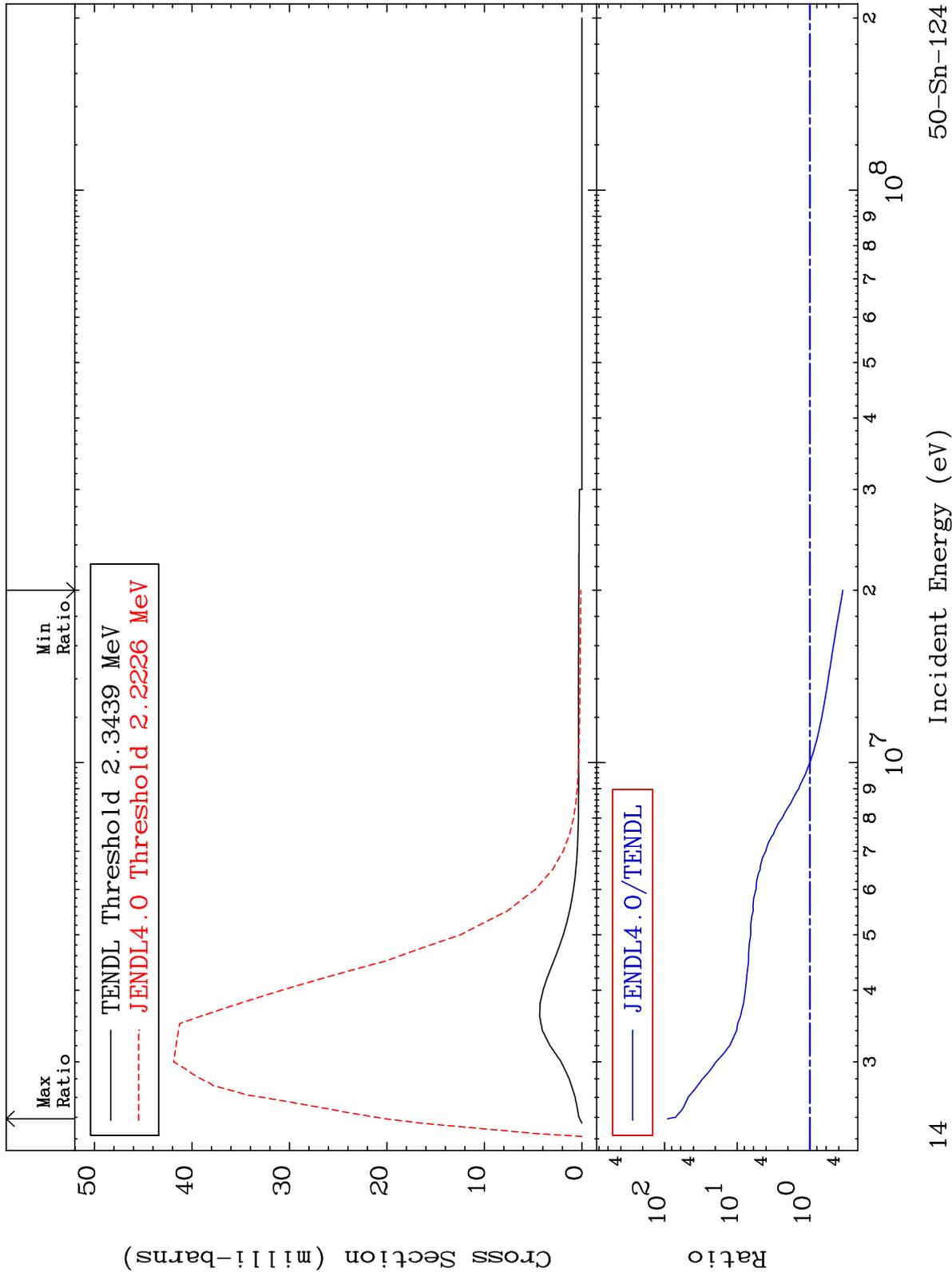
MAT 5061

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

50-Sn-124  
-97.98 To 501.9 %



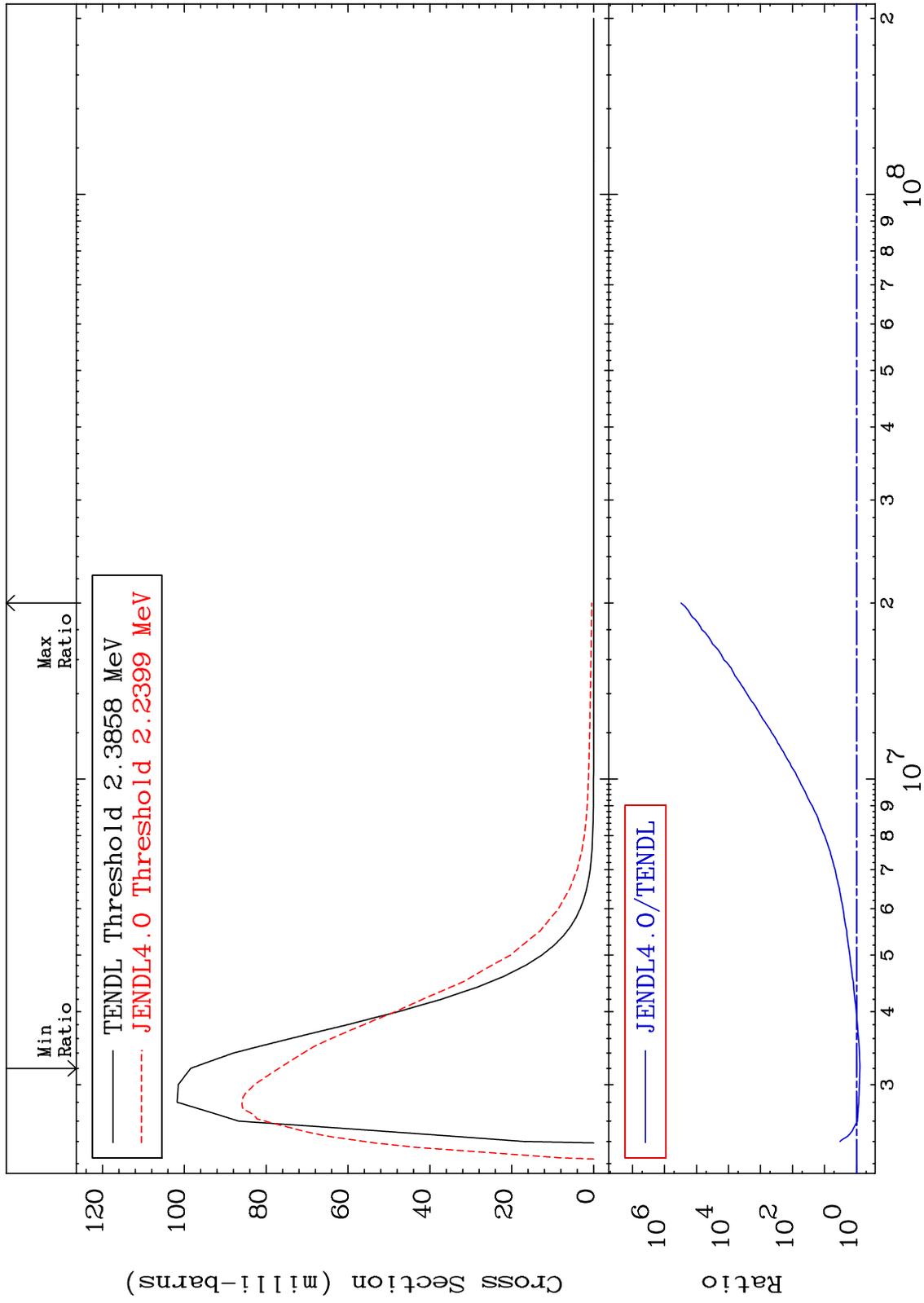
MAT 5061 MT= 57 (n,n') Level Cross Section 50-Sn-124 -64.80 To 8983. %



MAT 5061

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

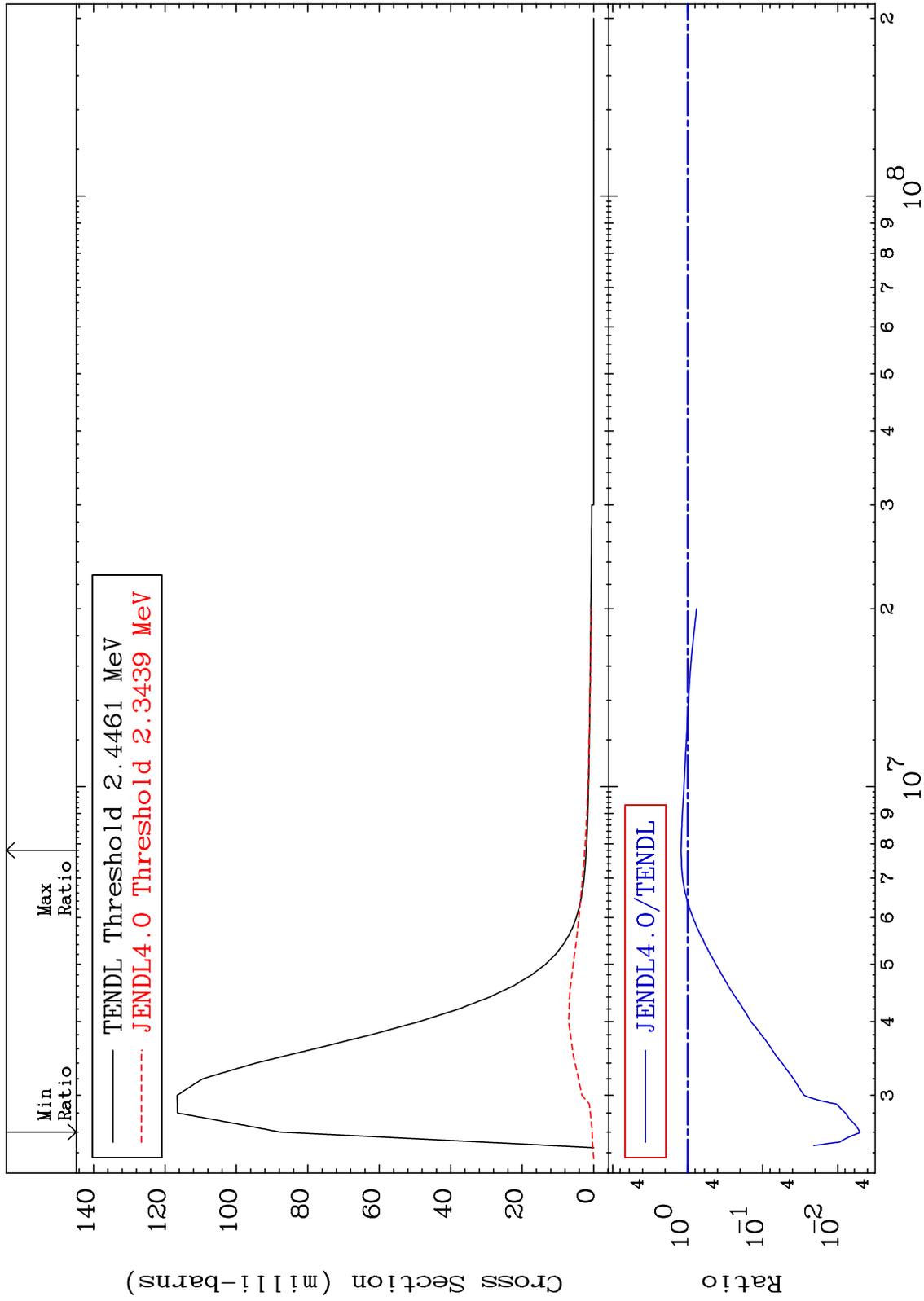
50-Sn-124  
-21.87 To 9999. %



MAT 5061

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

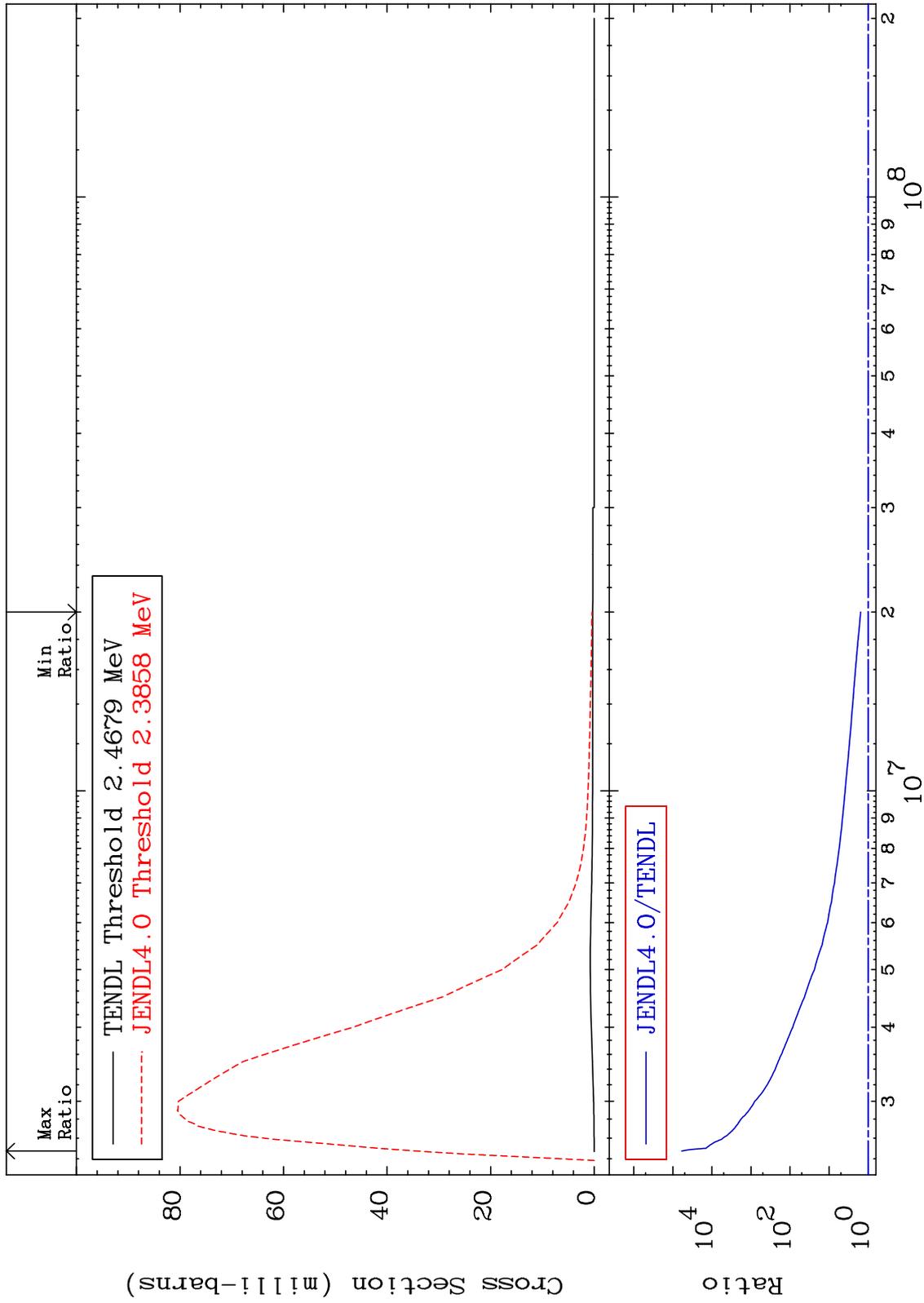
50-Sn-124  
-99.49 To 22.41 %



MAT 5061

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

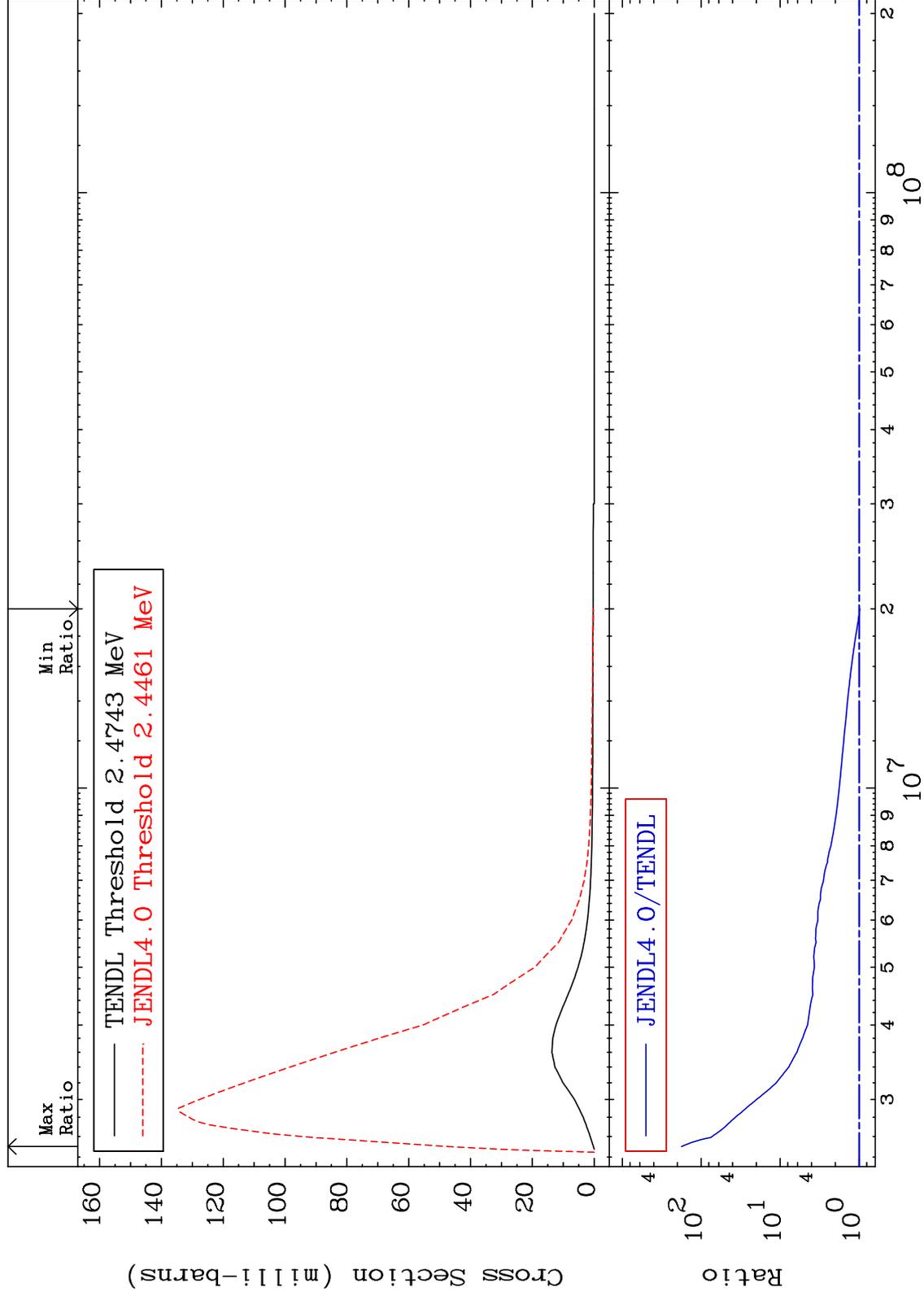
50-Sn-124  
To 9999. %



MAT 5061

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

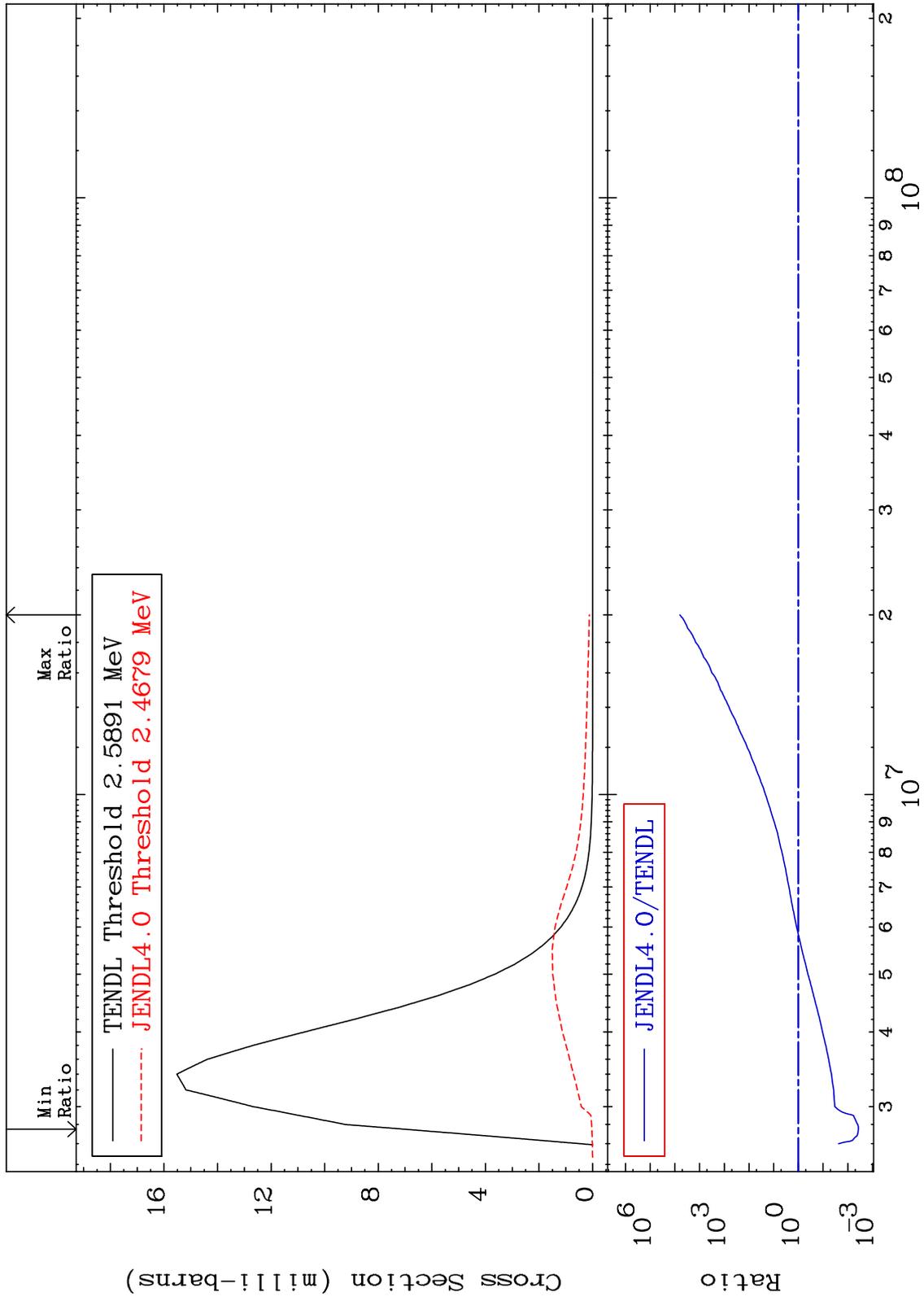
50-Sn-124  
-2.897 To 9999. %



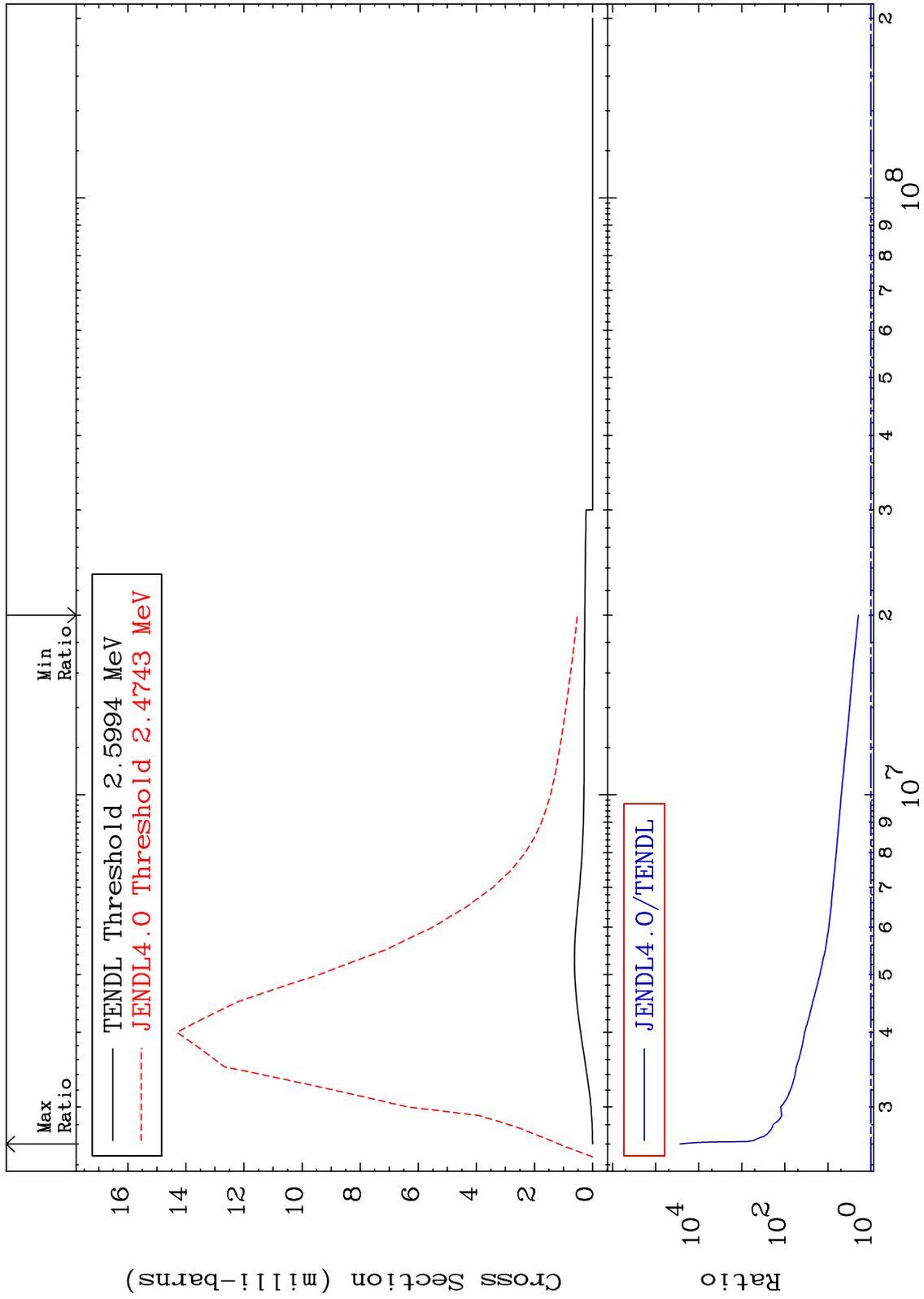
MAT 5061

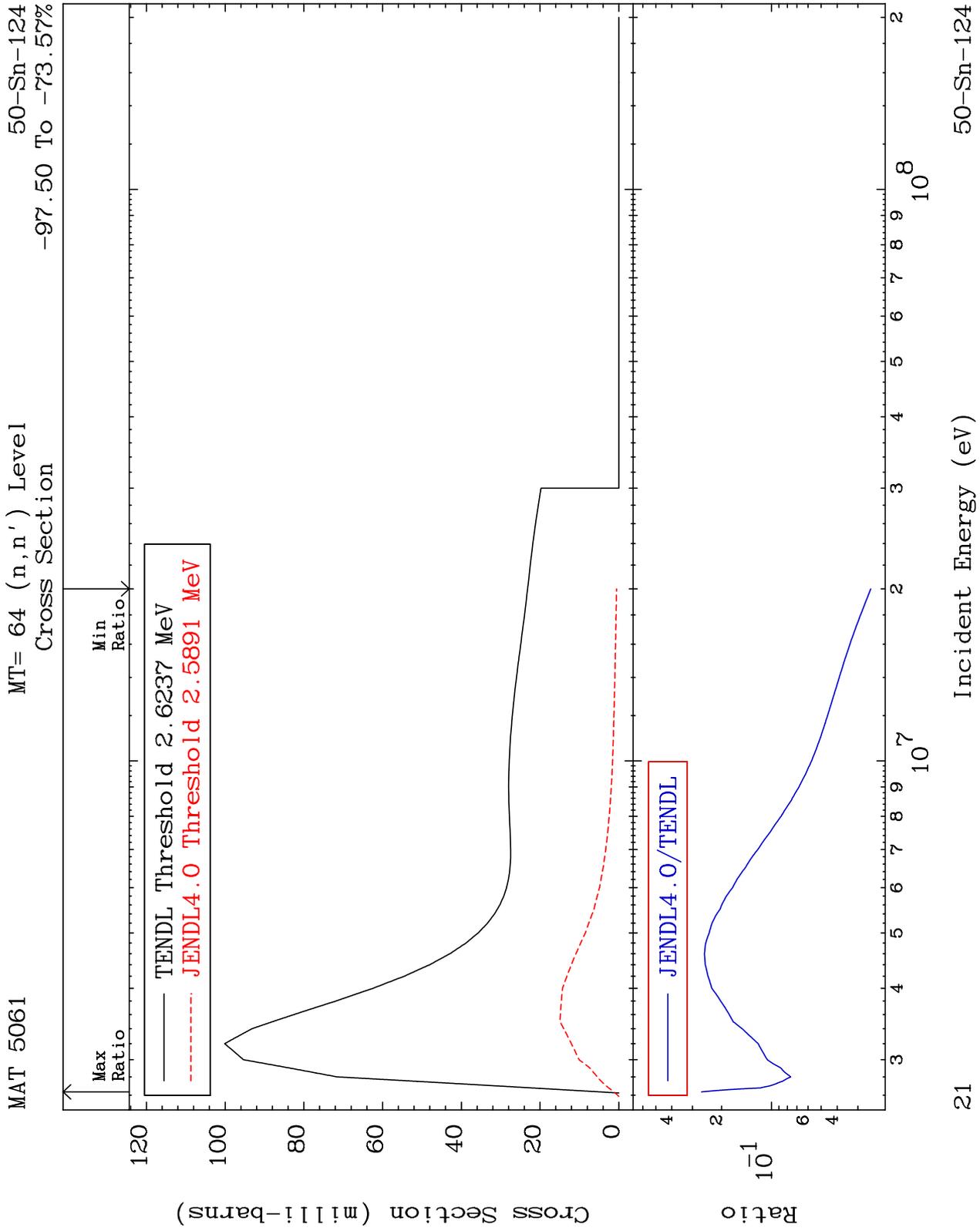
MT= 62 (n,n') Level  
Cross Section

50-Sn-124  
-99.63 To 9999. %



MAT 5061 MT= 63 (n,n') Level Cross Section 50-Sn-124 To 9999. %

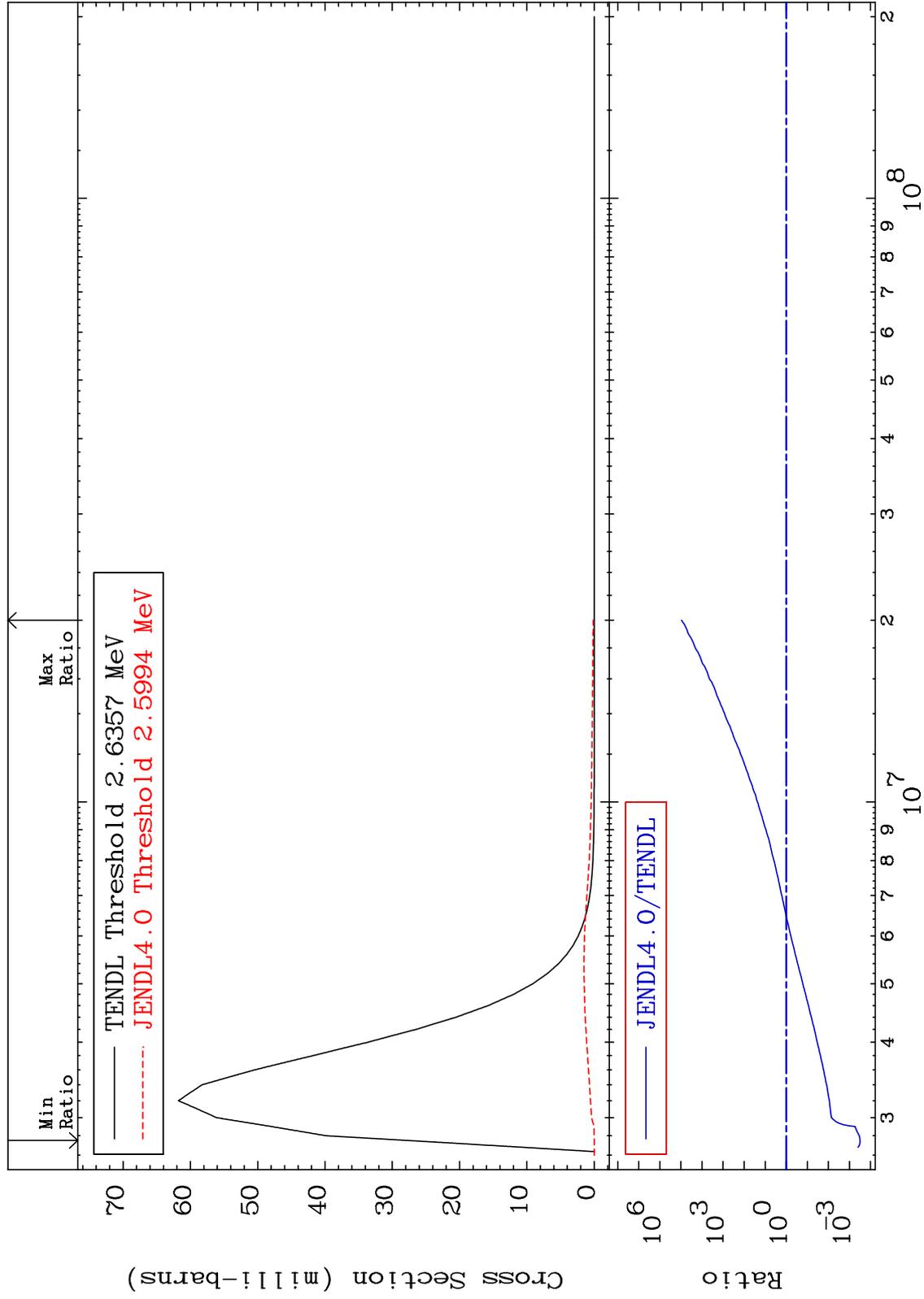




MAT 5061

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

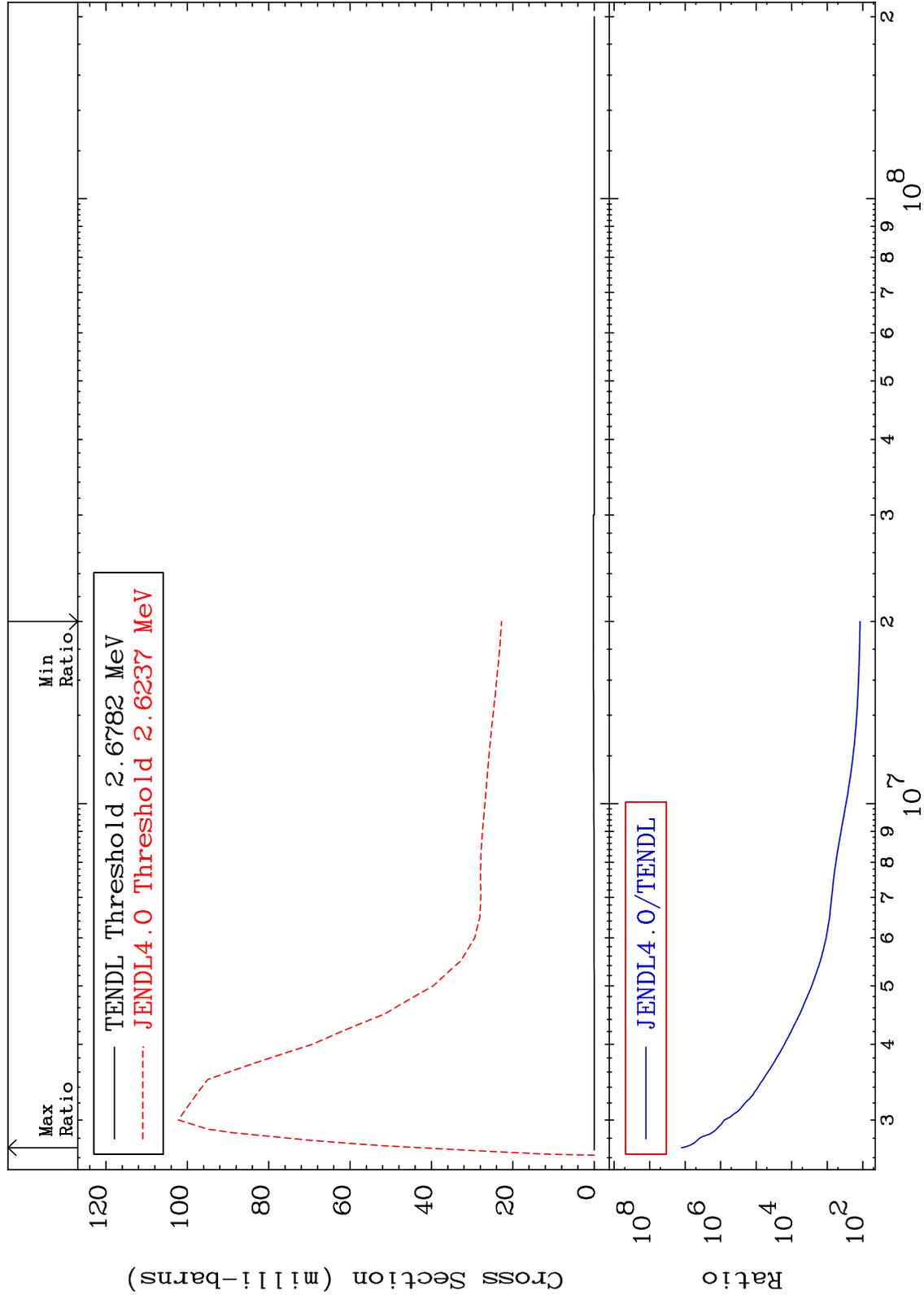
50-Sn-124  
-99.97 To 9999. %



MAT 5061

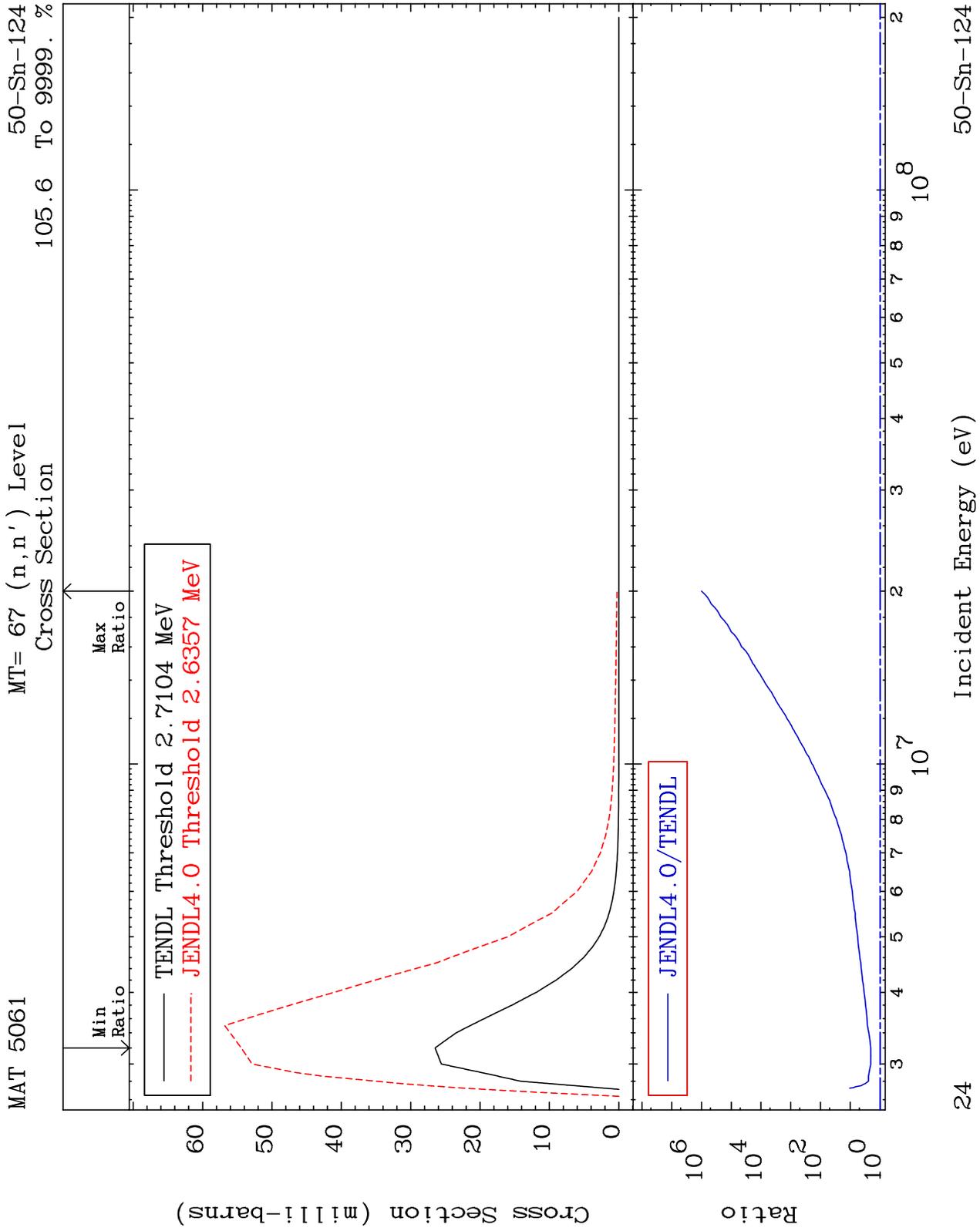
MT= 66 (n,n') Level  
Cross Section

50-Sn-124  
9999. To 9999. %



50-Sn-124

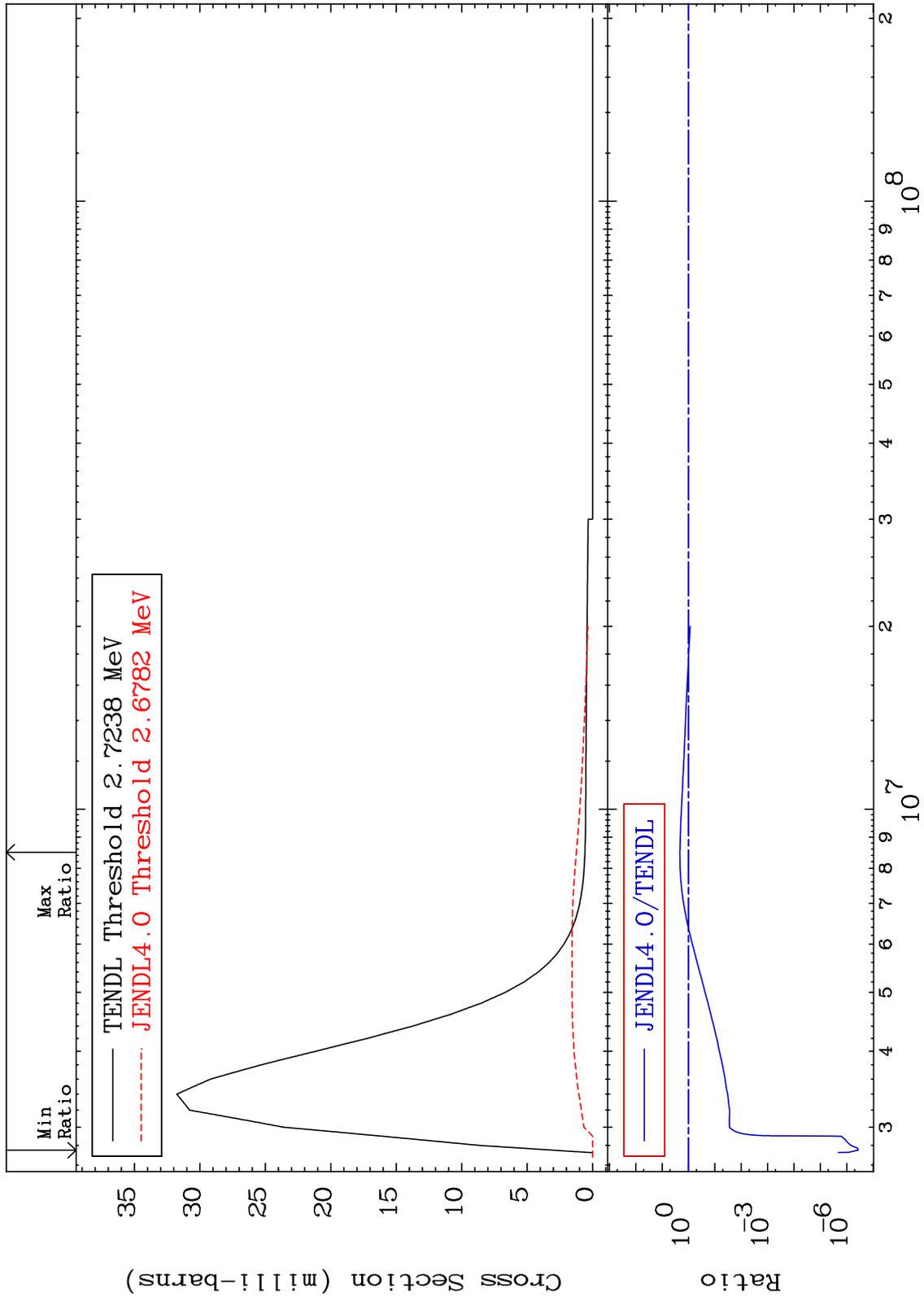
Incident Energy (eV)



MAT 5061

MT= 68 (n,n') Level  
Cross Section

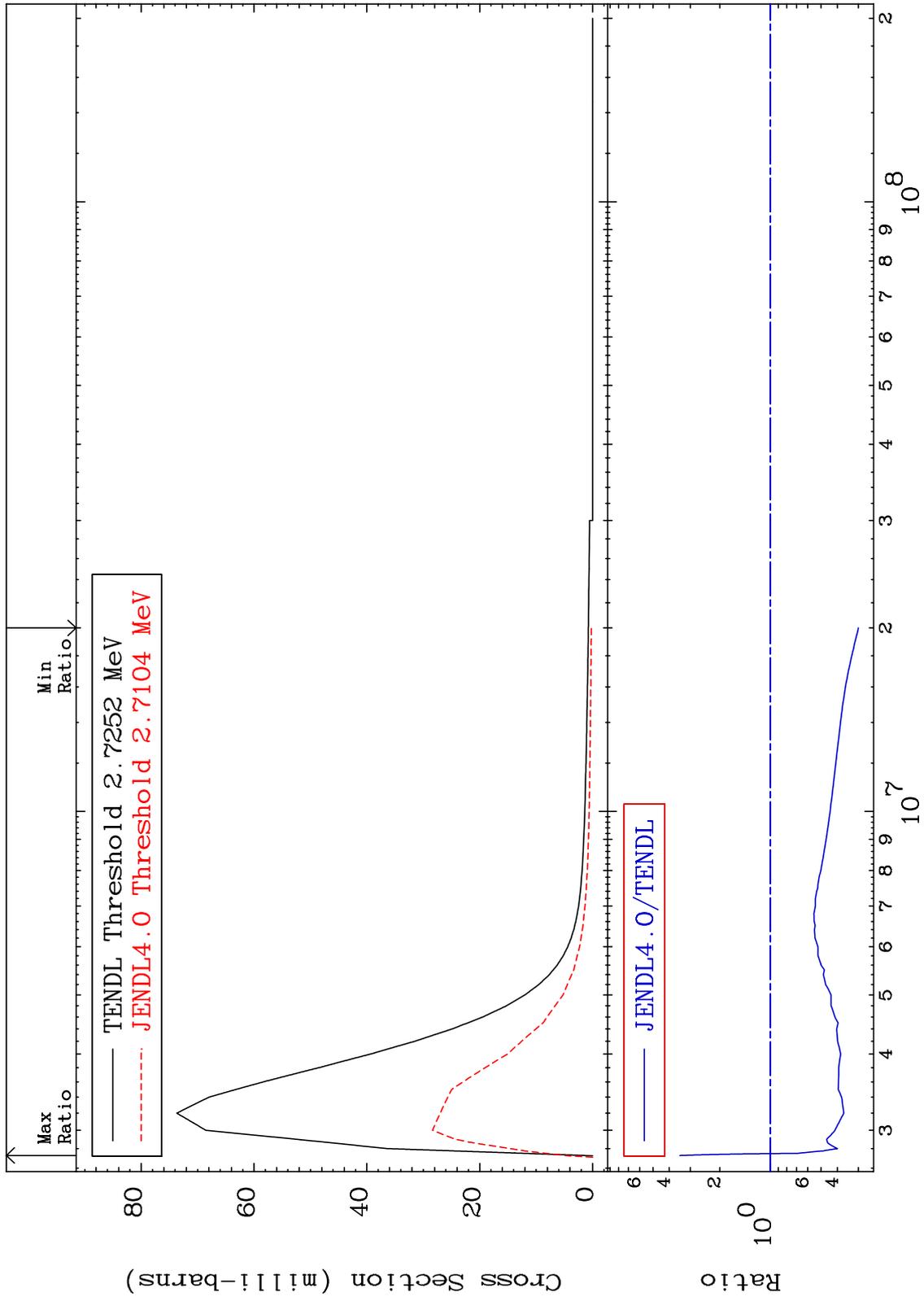
50-Sn-124  
-100.0 To 111.0 %



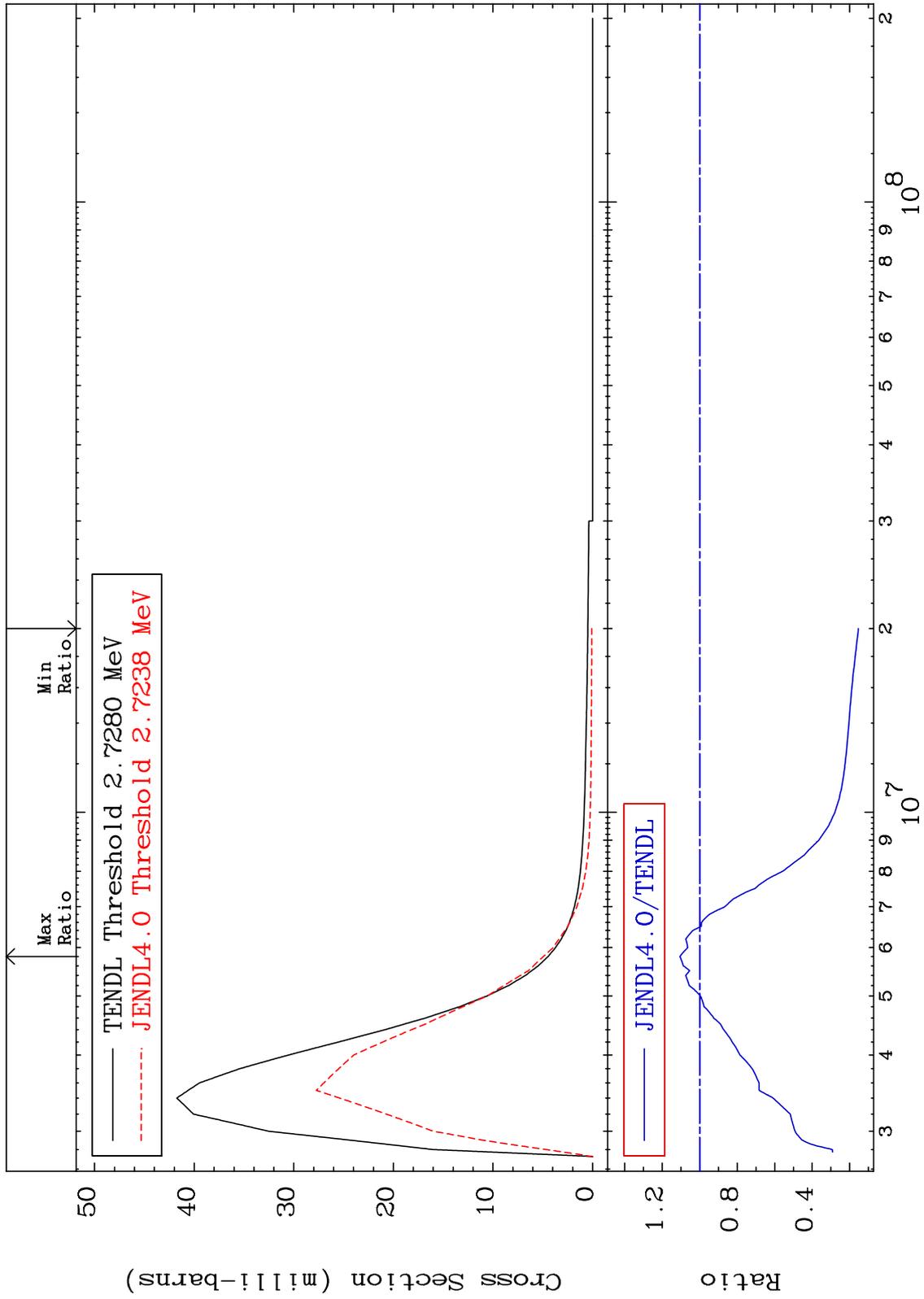
MAT 5061

MT= 69 (n,n') Level  
Cross Section

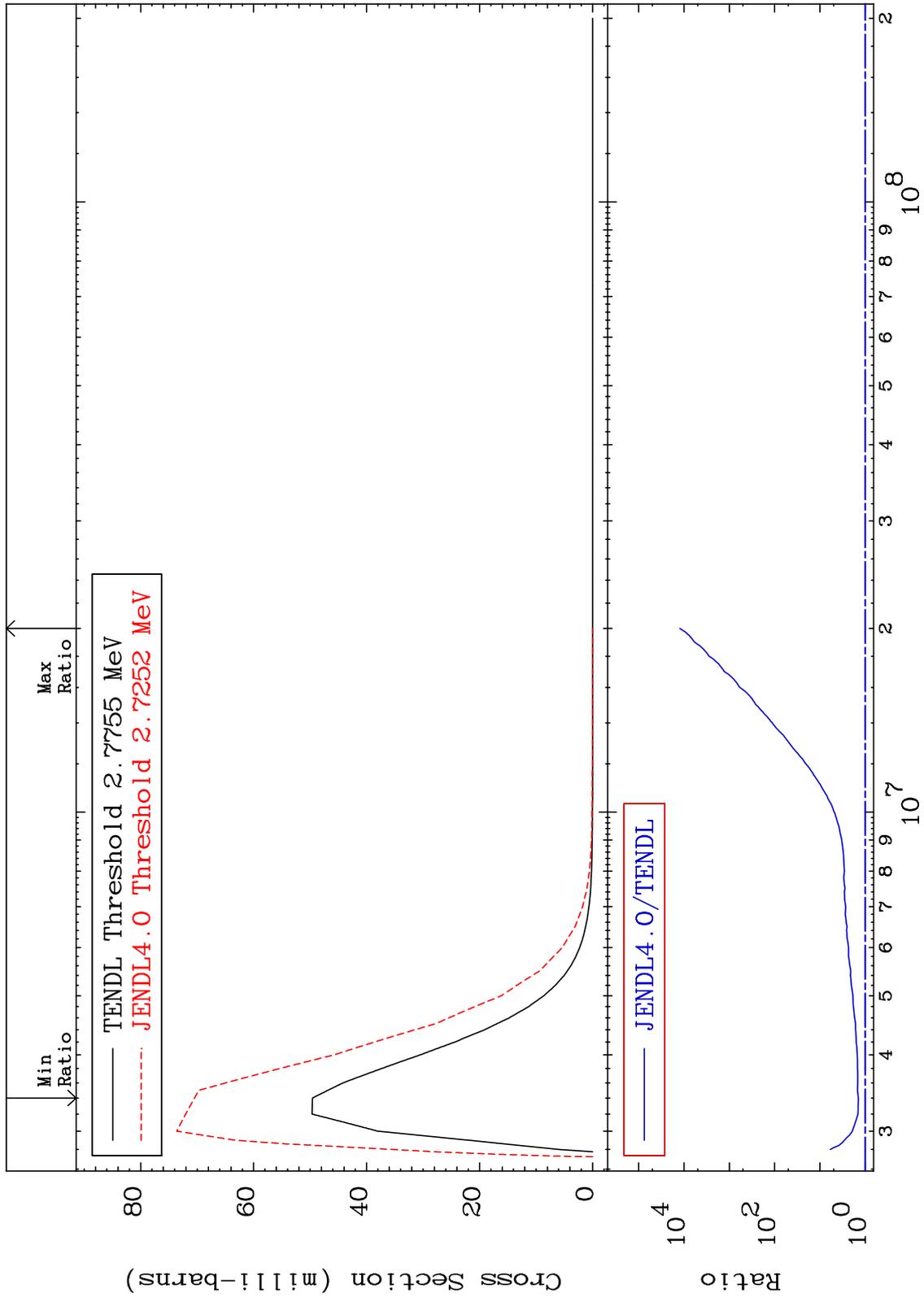
50-Sn-124  
-70.00 To 245.4 %



MAT 5061 MT= 70 (n,n') Level Cross Section 50-Sn-124 -84.65 To 10.54 %



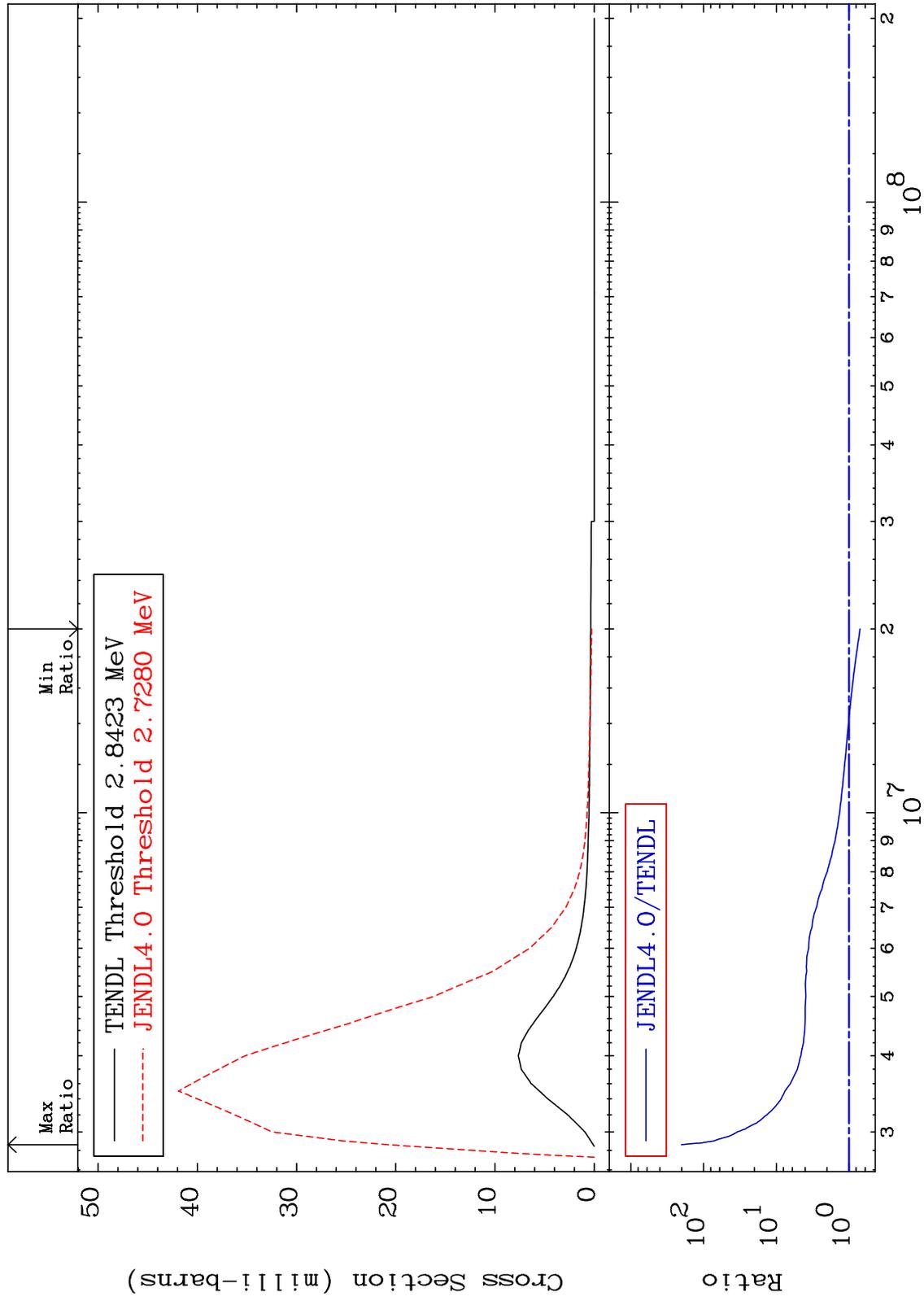
MAT 5061 MT= 71 (n,n') Level Cross Section 50-Sn-124 To 9999. %  
 42.15



MAT 5061

MT= 72 (n,n') Level  
Cross Section

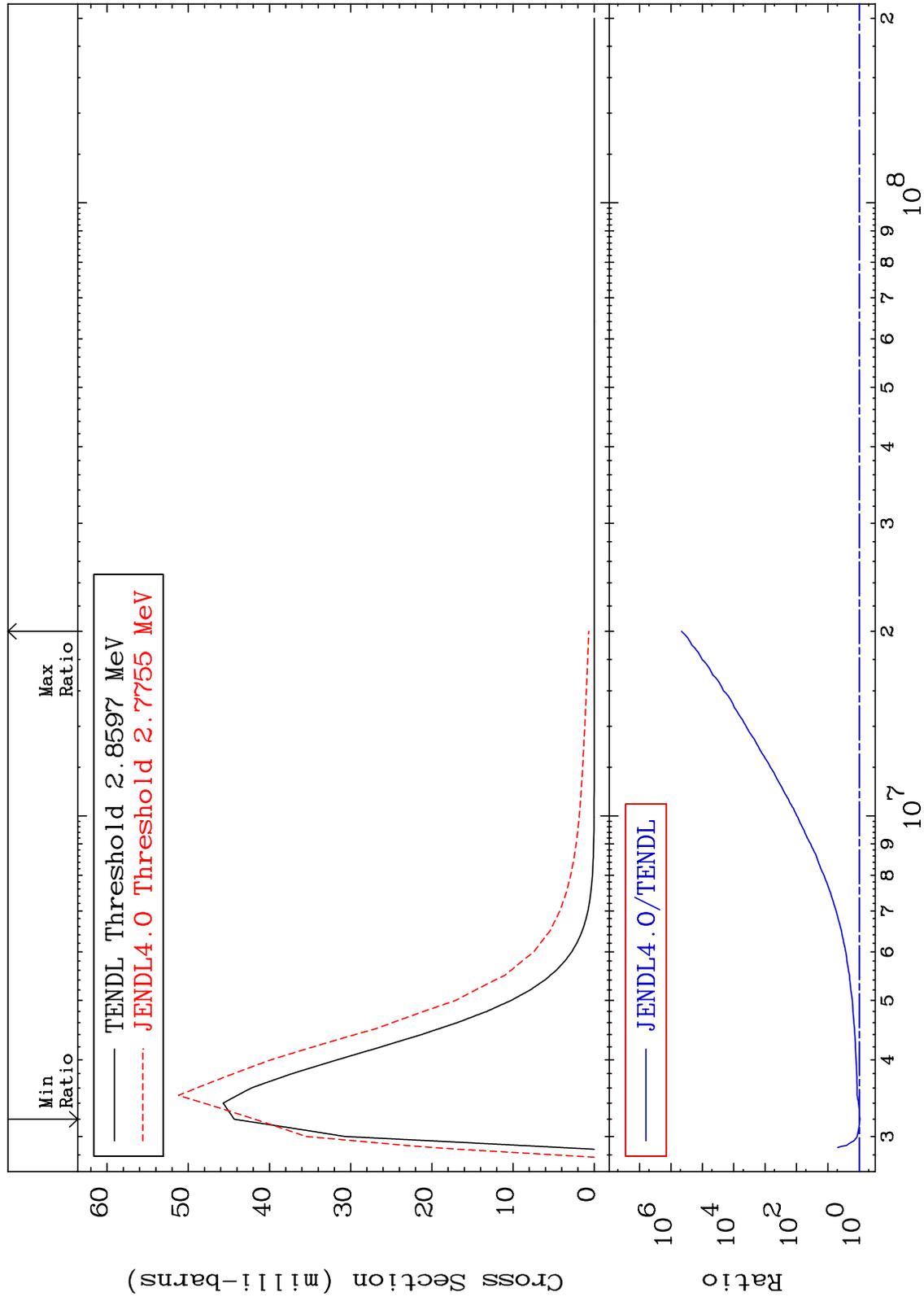
50-Sn-124  
-29.45 To 9999. %



MAT 5061

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

50-Sn-124  
-5.733 To 9999. %

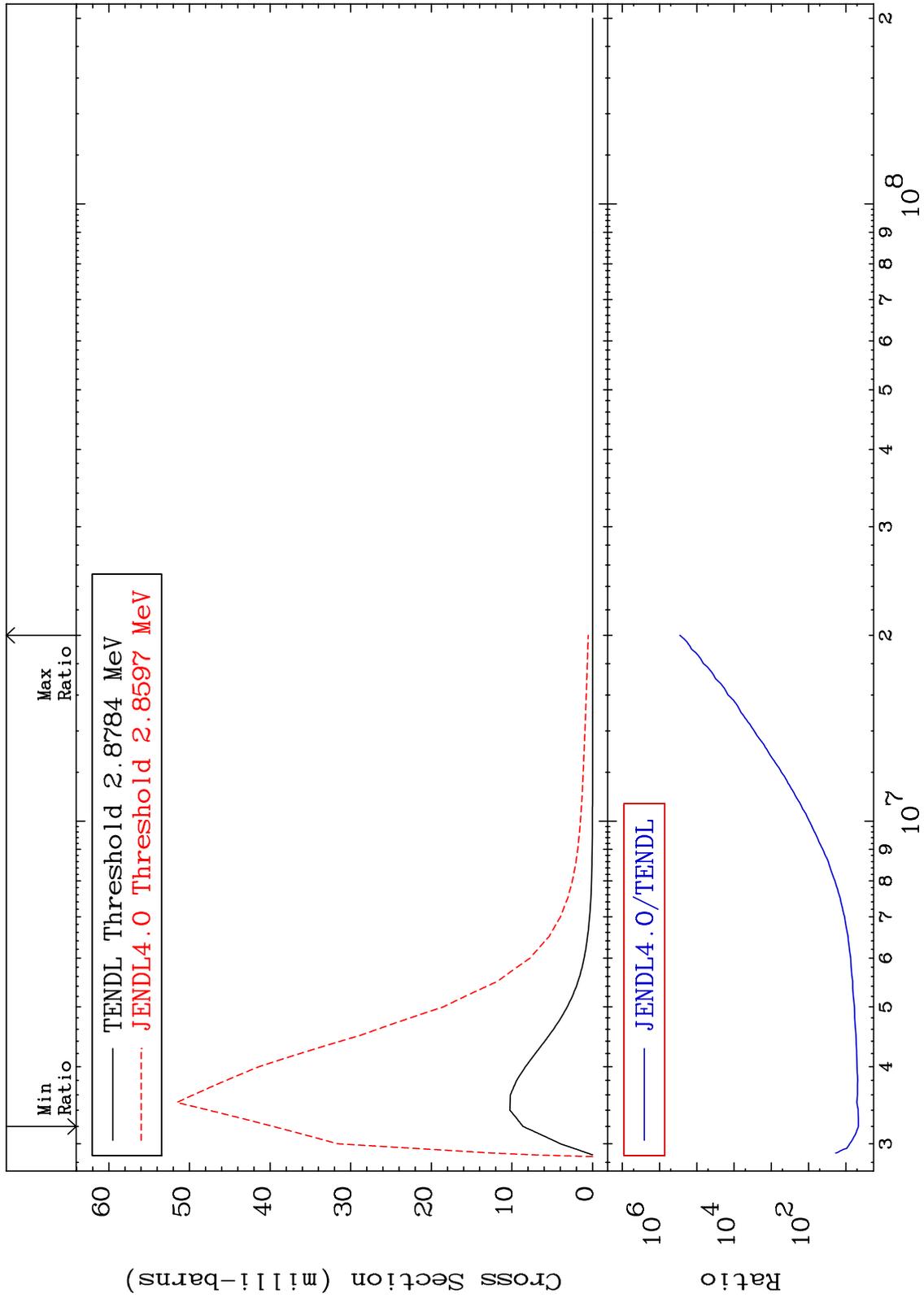


30

Incident Energy (eV)

50-Sn-124

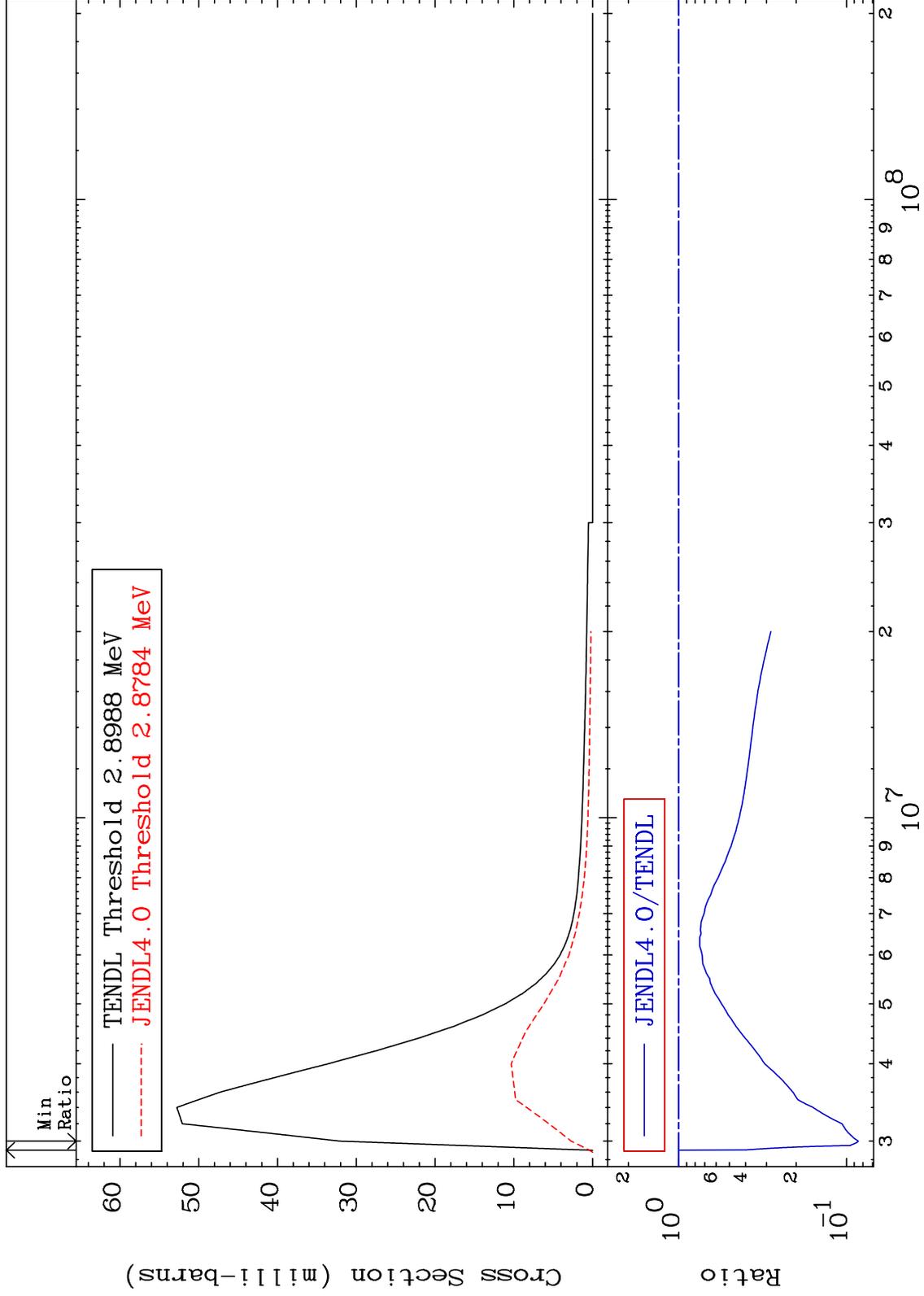
MAT 5061 MT= 74 (n,n') Level Cross Section 50-Sn-124 To 9999. %  
 359.2



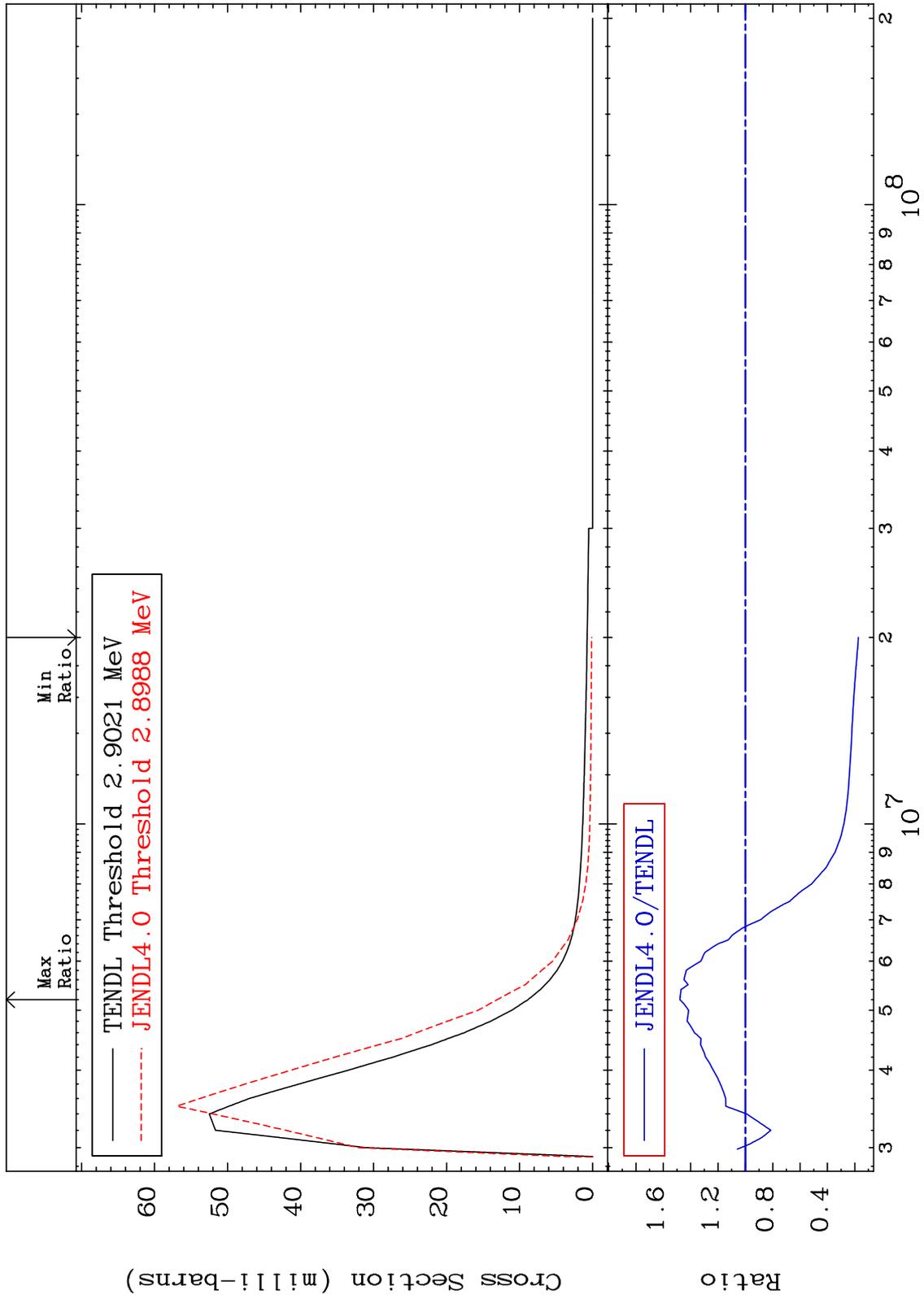
MAT 5061

MT= 75 (n,n') Level  
Cross Section

50-Sn-124  
-91.50 To -1.480%



MAT 5061 MT= 76 (n,n') Level  
 Cross Section 50-Sn-124  
 -82.65 To 47.84 %

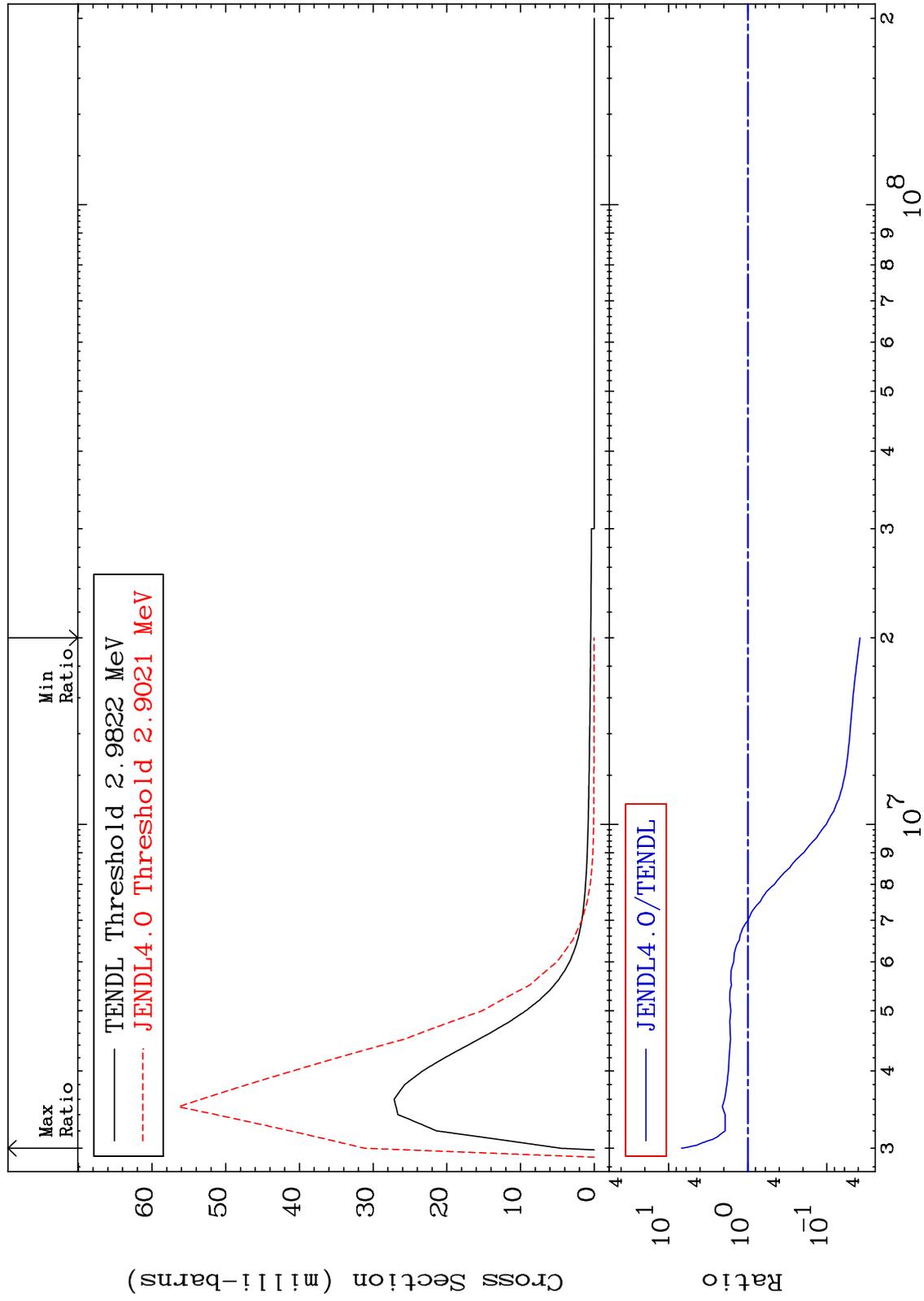


Incident Energy (eV) 50-Sn-124

MAT 5061

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

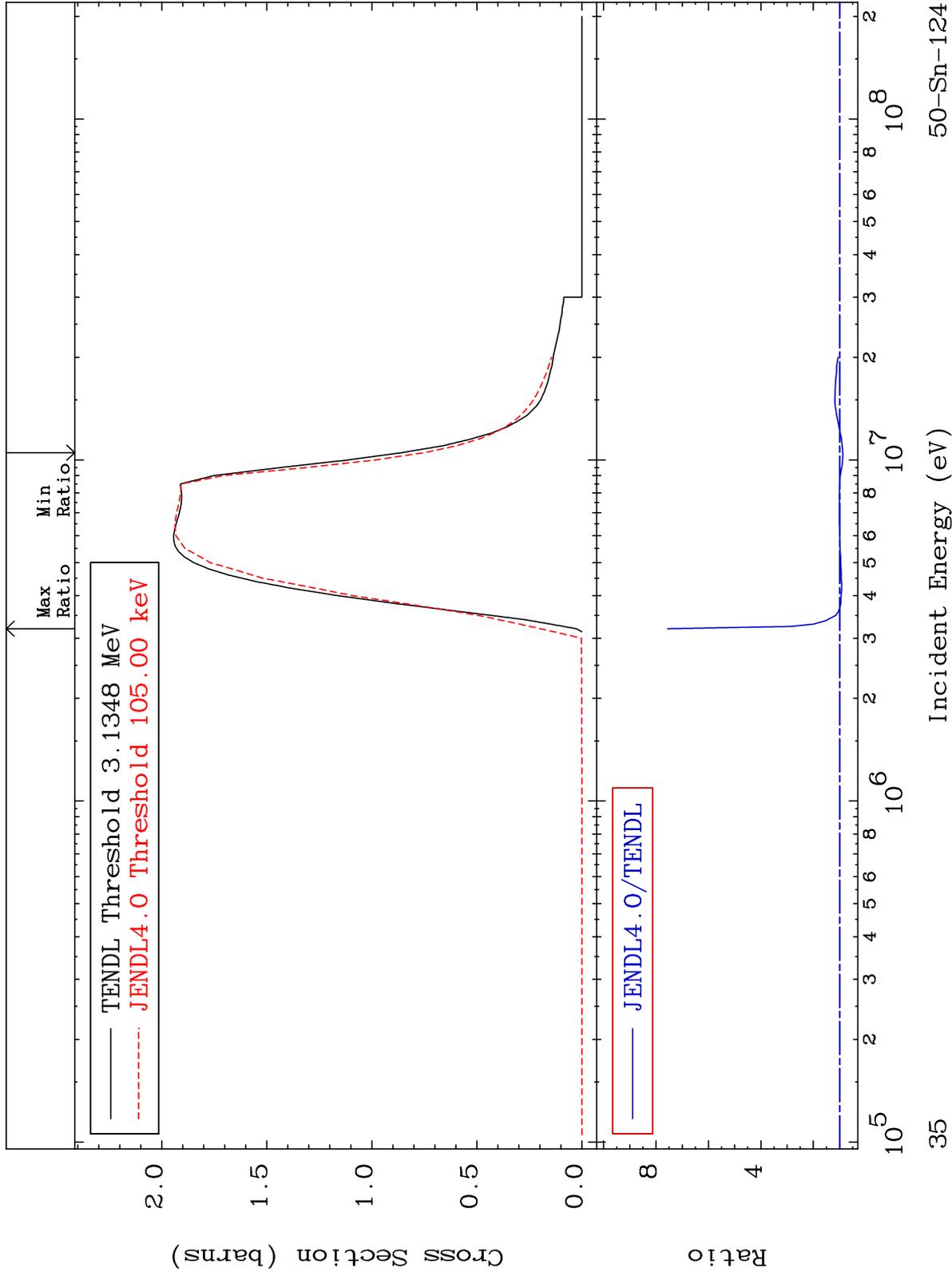
50-Sn-124  
-96.19 To 586.4 %



MAT 5061

(n,n') Continuum  
Cross Section

50-Sn-124  
-12.68 To 655.7 %

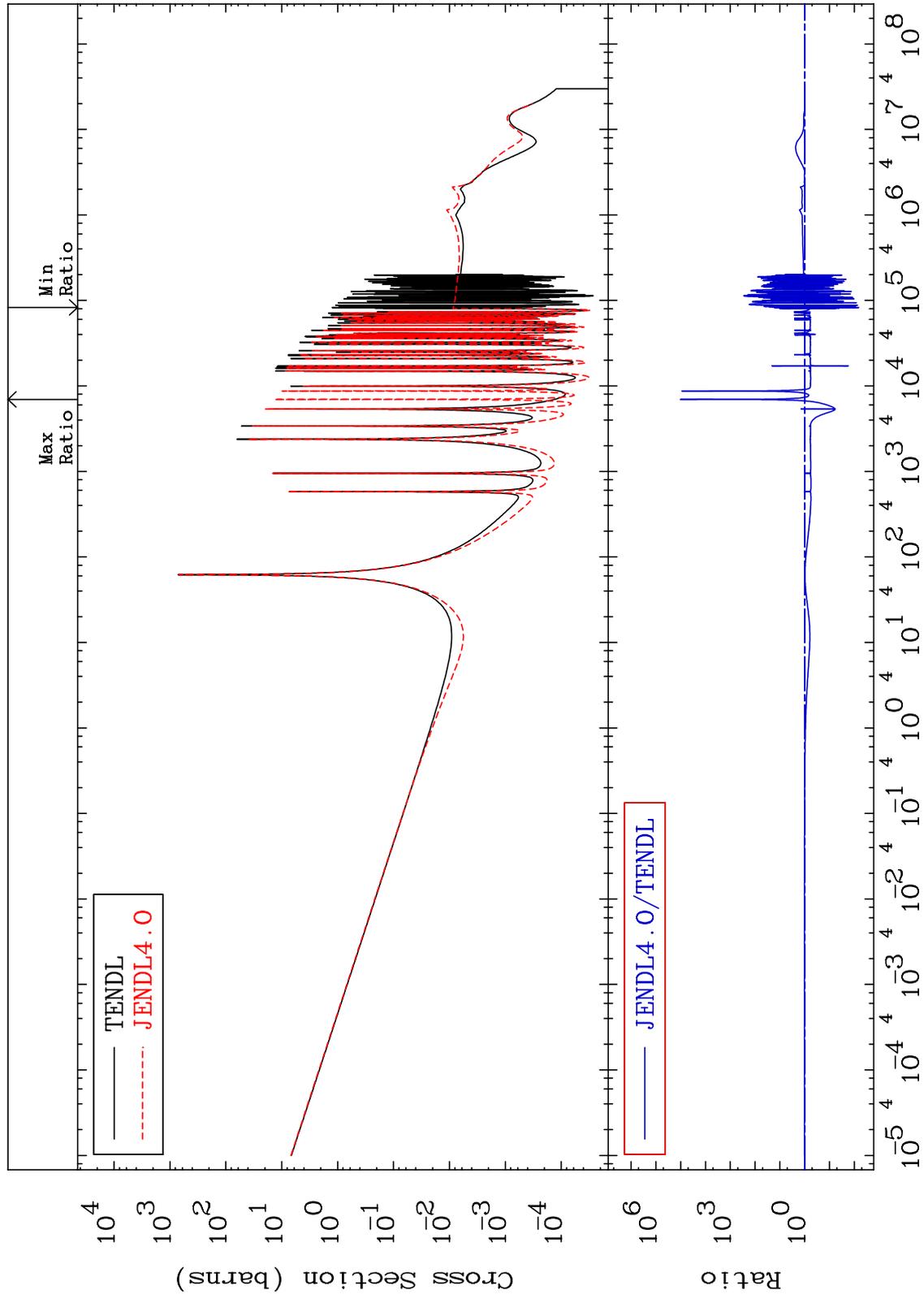


35

MAT 5061

(n,  $\gamma$ )  
Cross Section

50-Sn-124  
-99.32 To 9999. %



36

50-Sn-124

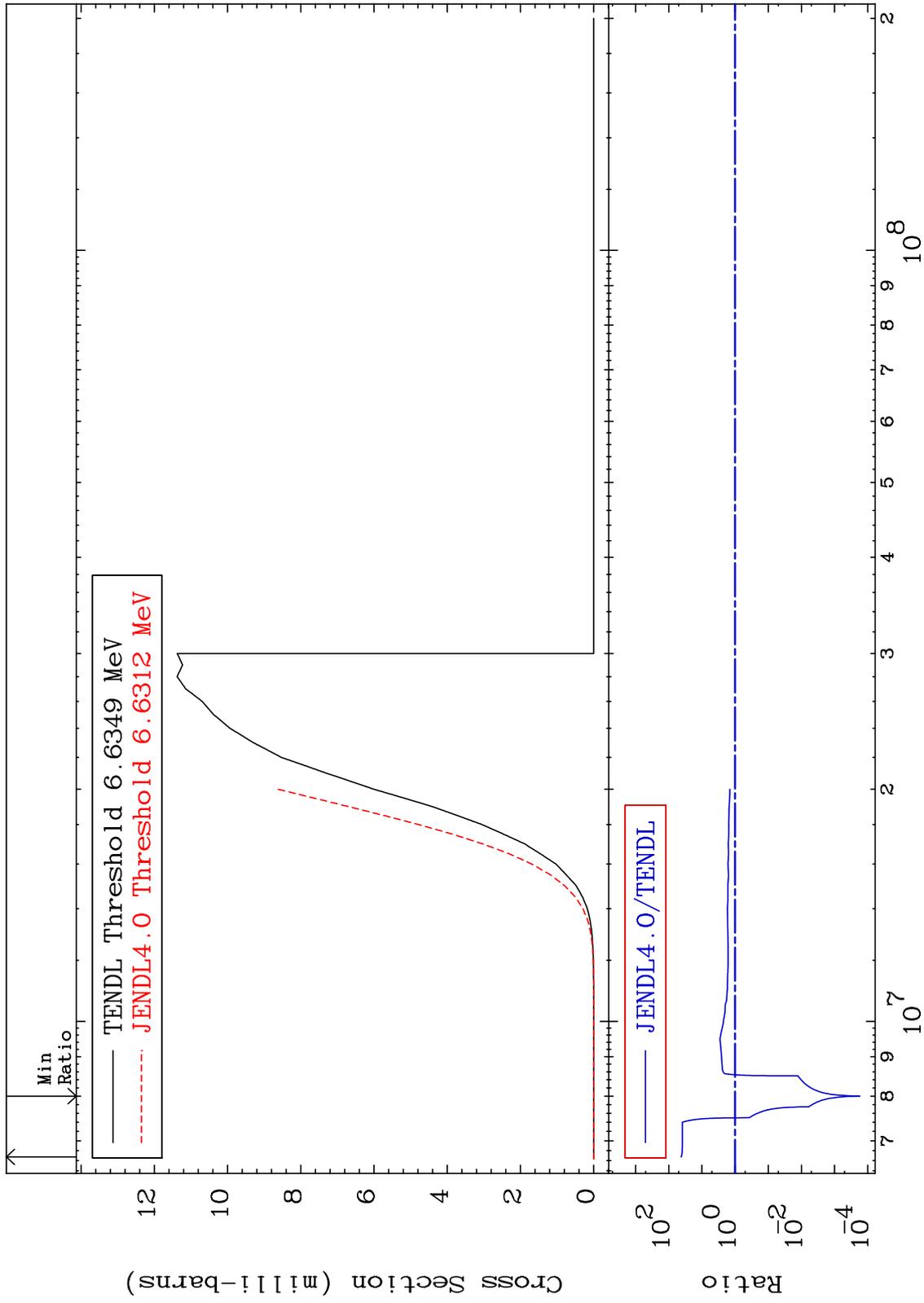
MAT 5061

(n,p)

50-Sn-124

Cross Section

-99.98 To 4139. %



37

Incident Energy (eV)

50-Sn-124

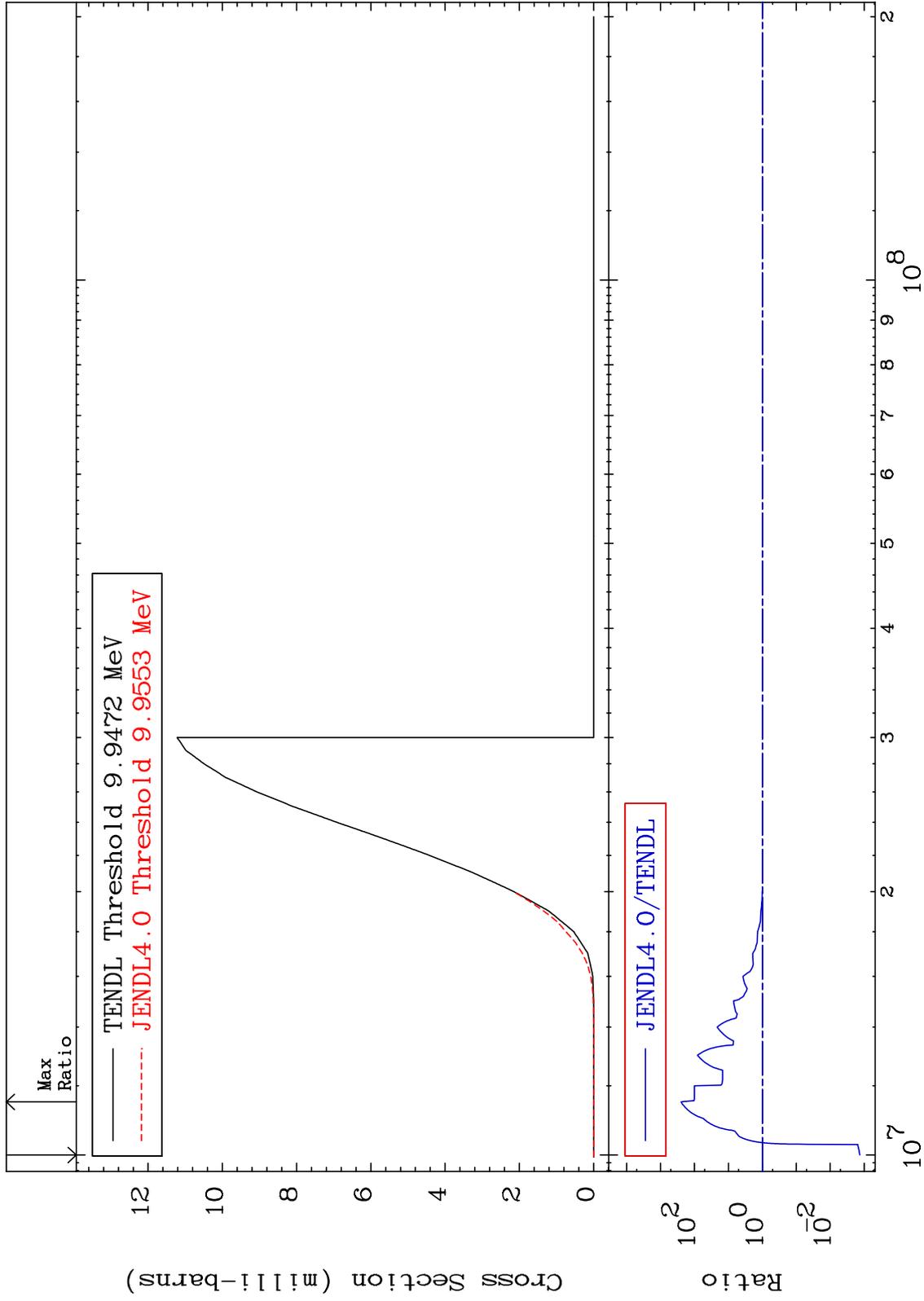
MAT 5061

(n,d)

50-Sn-124

Cross Section

-99.87 To 9999. %



Incident Energy (eV)

50-Sn-124

38

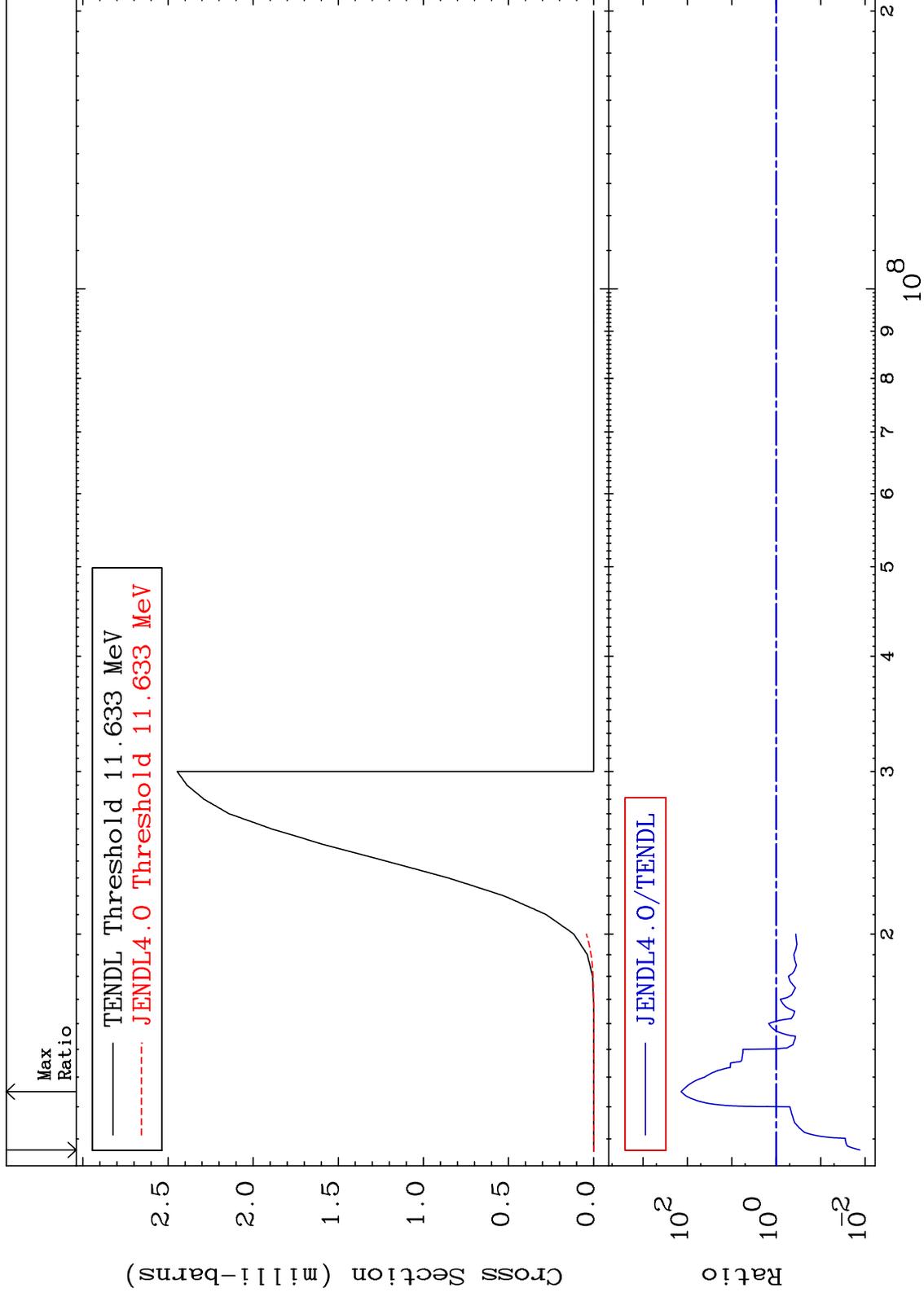
MAT 5061

(n, t)

50-Sn-124

Cross Section

-98.69 To 9999. %



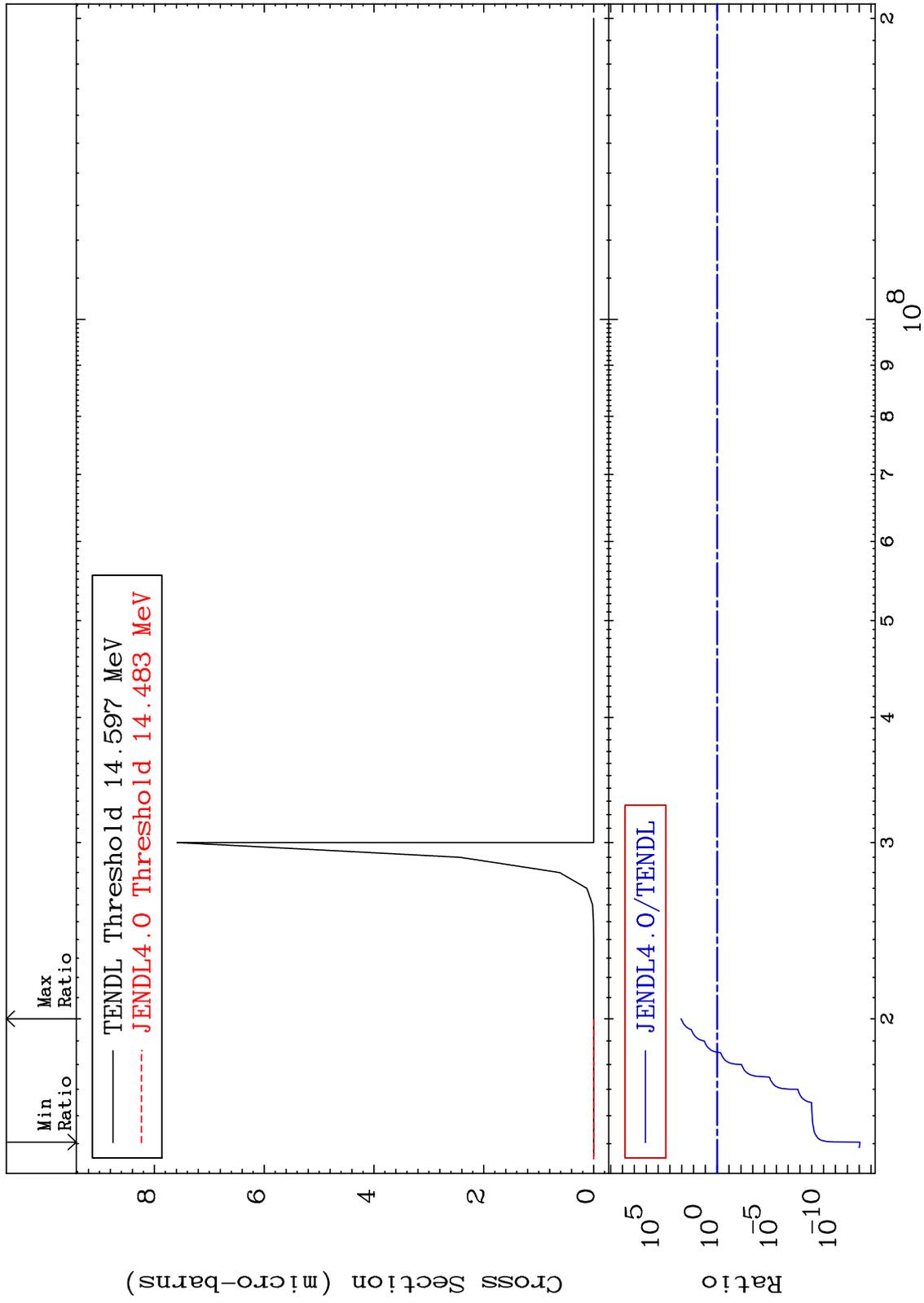
MAT 5061

(n, He-3)

50-Sn-124

Cross Section

-100.0 To 9999. %



40

Incident Energy (eV)

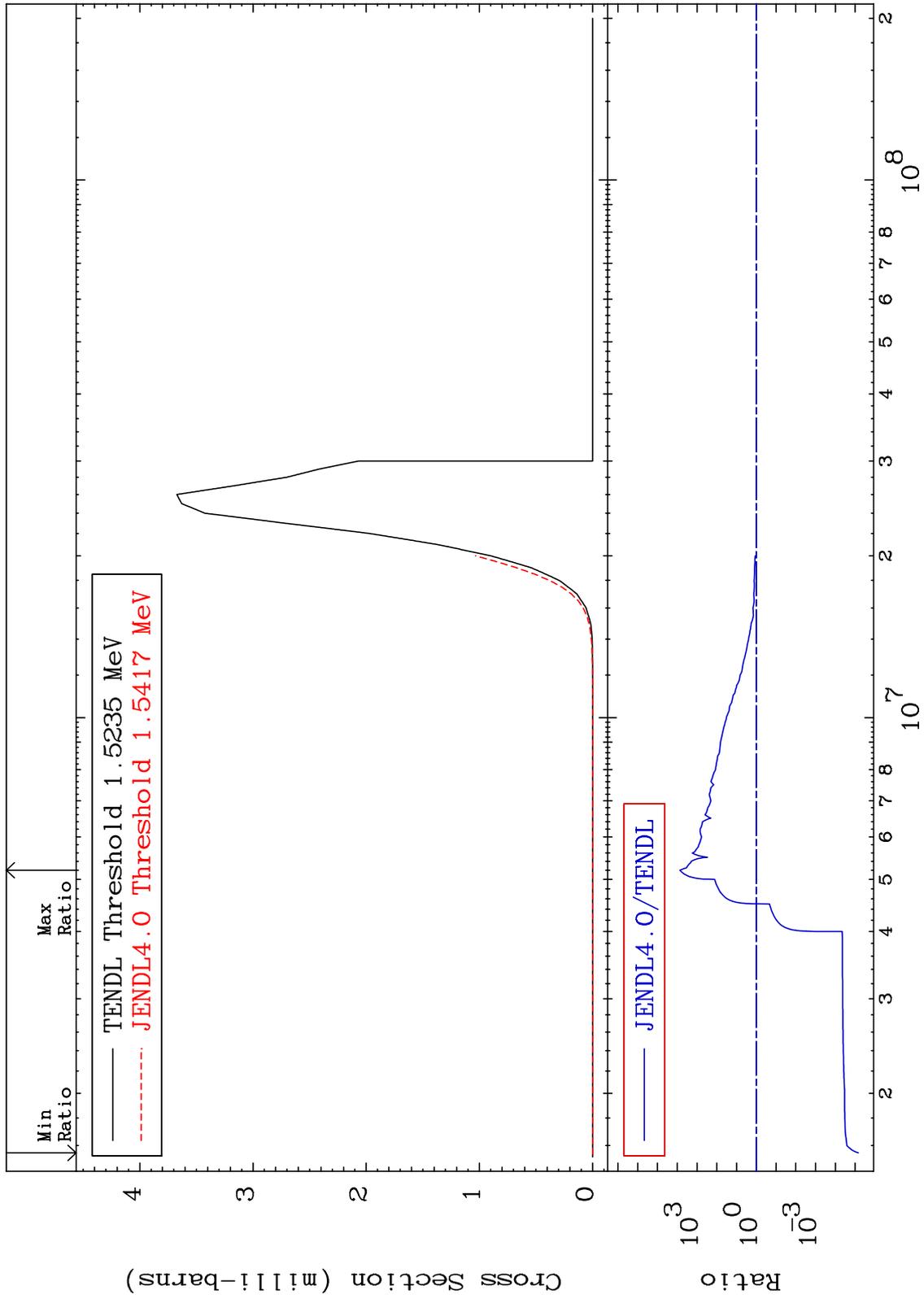
50-Sn-124

MAT 5061

(n,  $\alpha$ )  
Cross Section

50-Sn-124

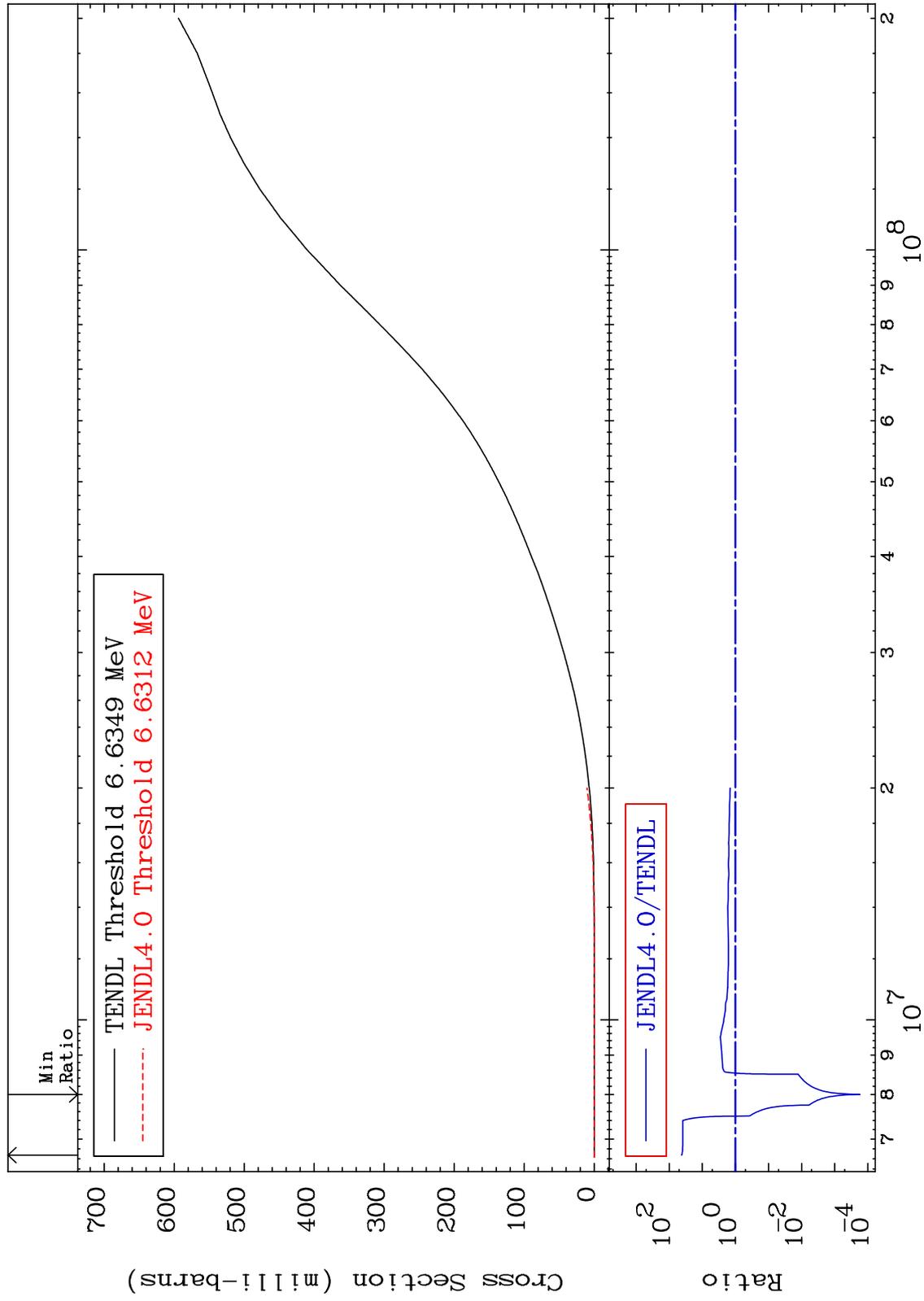
-100.0 To 9999. %



MAT 5061

Hydrogen Production  
Cross Section

50-Sn-124  
-99.98 To 4139. %



42

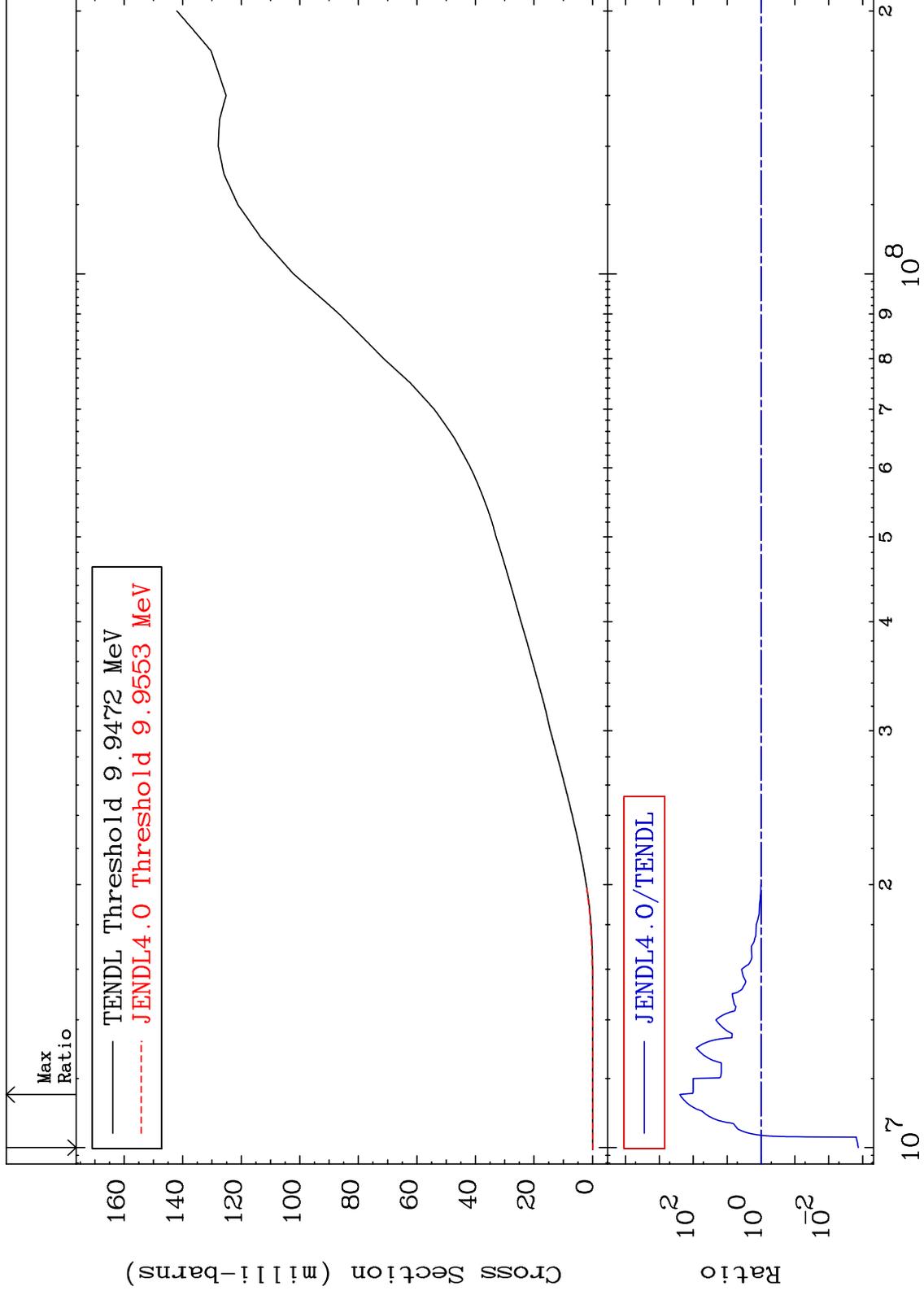
Incident Energy (eV)

50-Sn-124

MAT 5061

Deuterium Production  
Cross Section

50-Sn-124  
-99.87 To 9999. %



Incident Energy (eV)

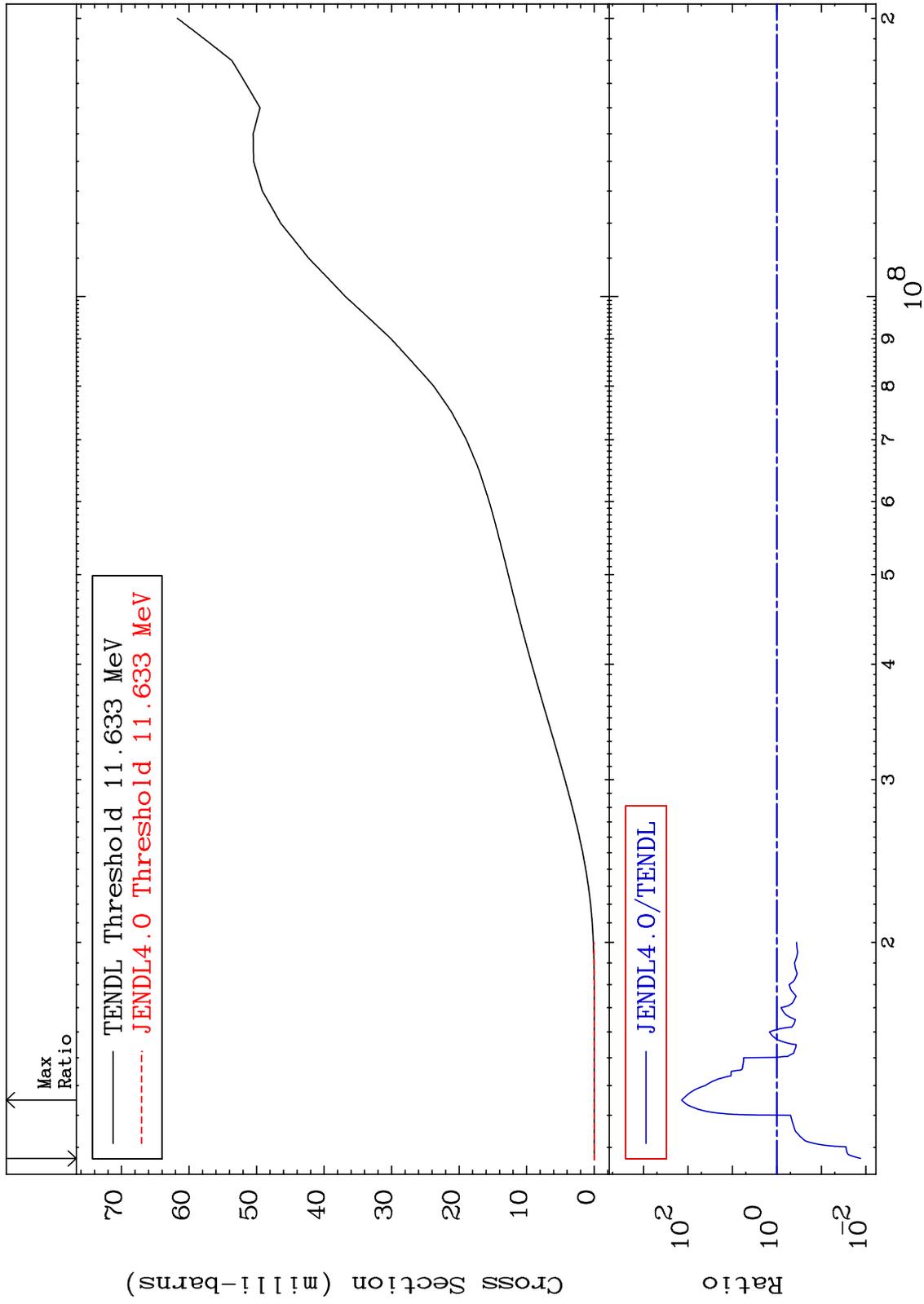
50-Sn-124

43

MAT 5061

Tritium Production  
Cross Section

50-Sn-124  
-98.69 To 9999. %

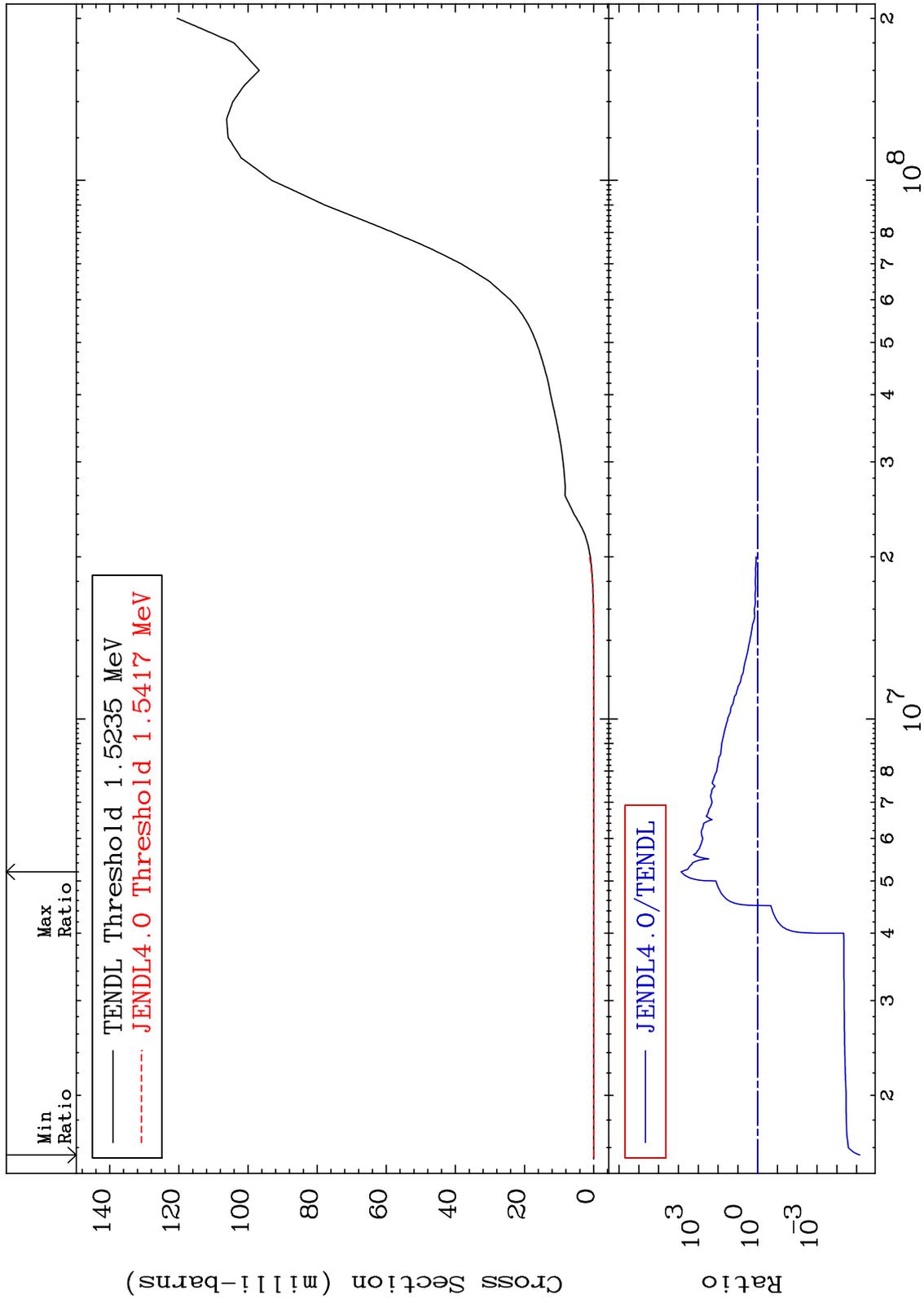




MAT 5061

He-4 Production  
Cross Section

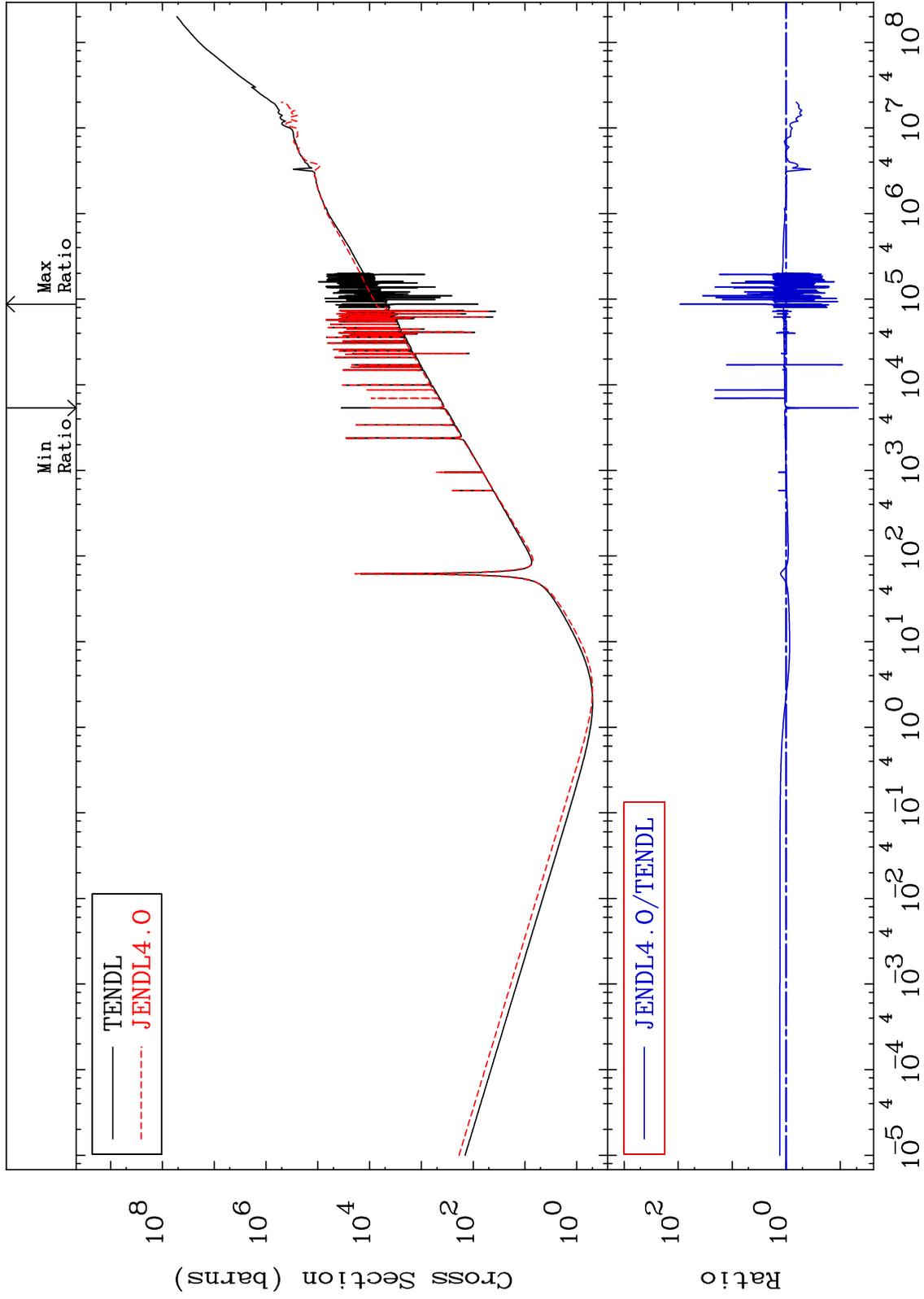
50-Sn-124  
-100.0 To 9999. %



MAT 5061

Kerma total (eV-barns)  
Cross Section

50-Sn-124  
-95.39 To 9178. %



47

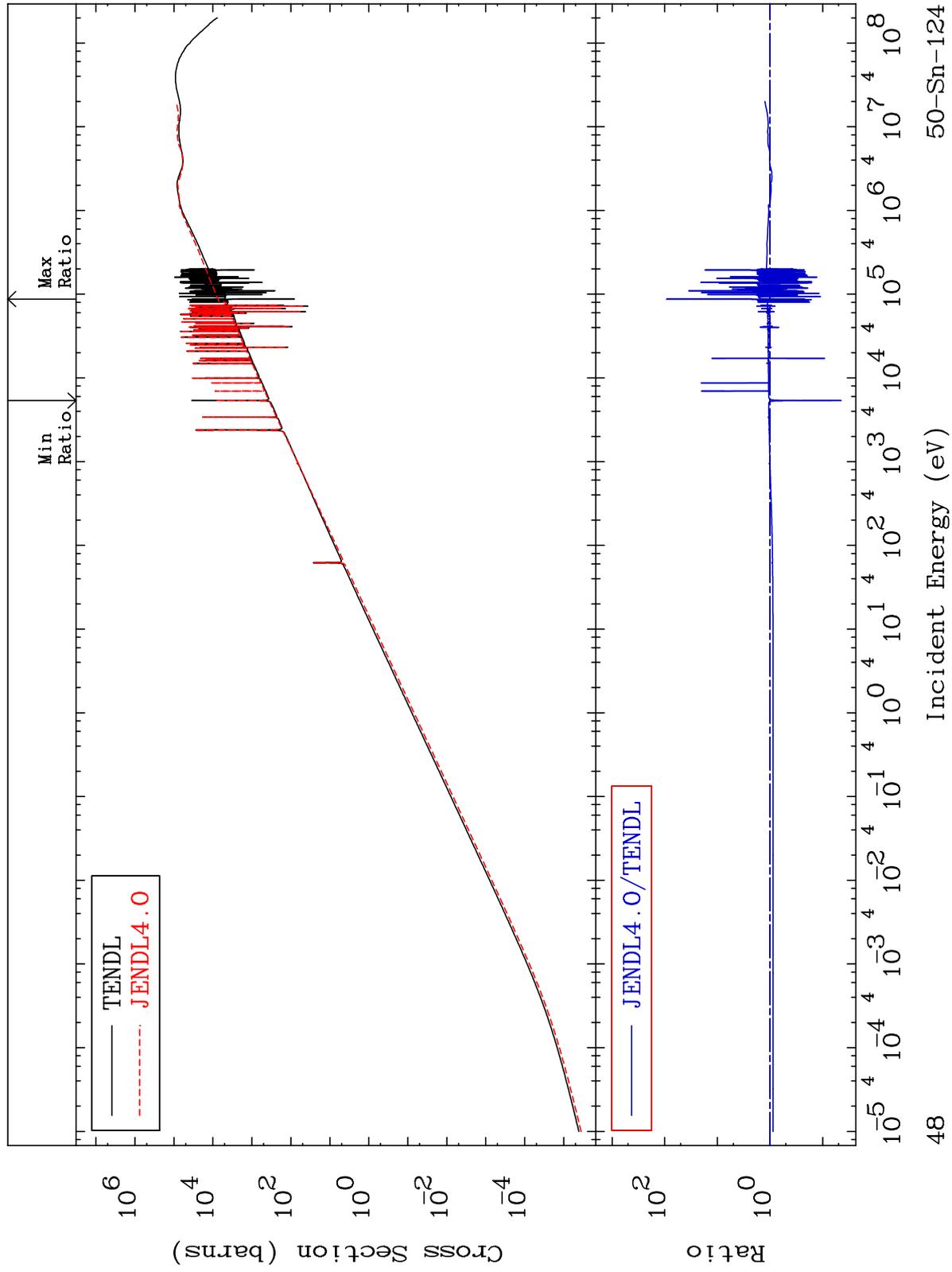
Incident Energy (eV)

50-Sn-124

MAT 5061

Kerma elastic  
Cross Section

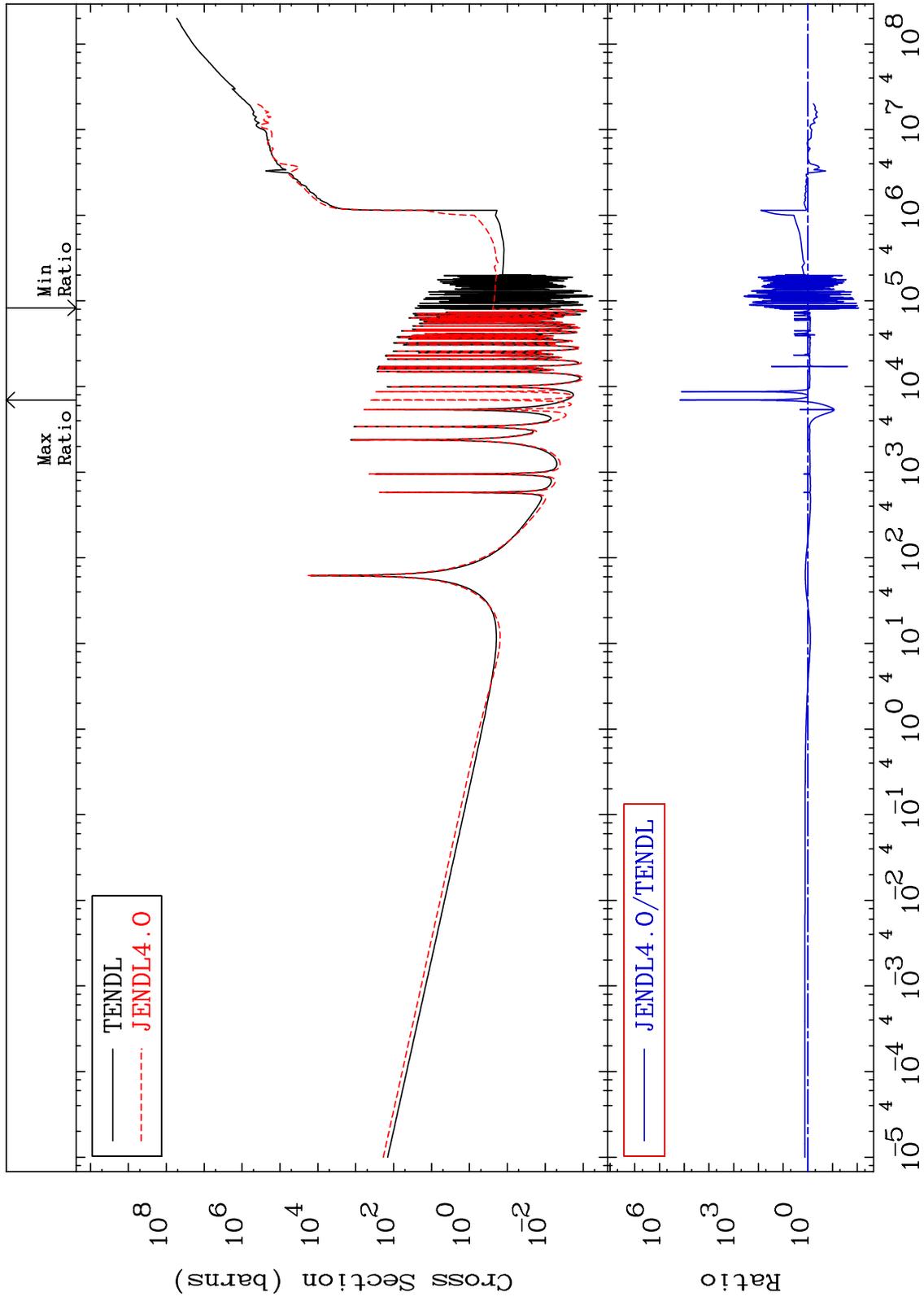
50-Sn-124  
-95.48 To 9187. %



MAT 5061

Kerma non-elastic (all but mt2)  
Cross Section

50-Sn-124  
-99.09 To 9999. %



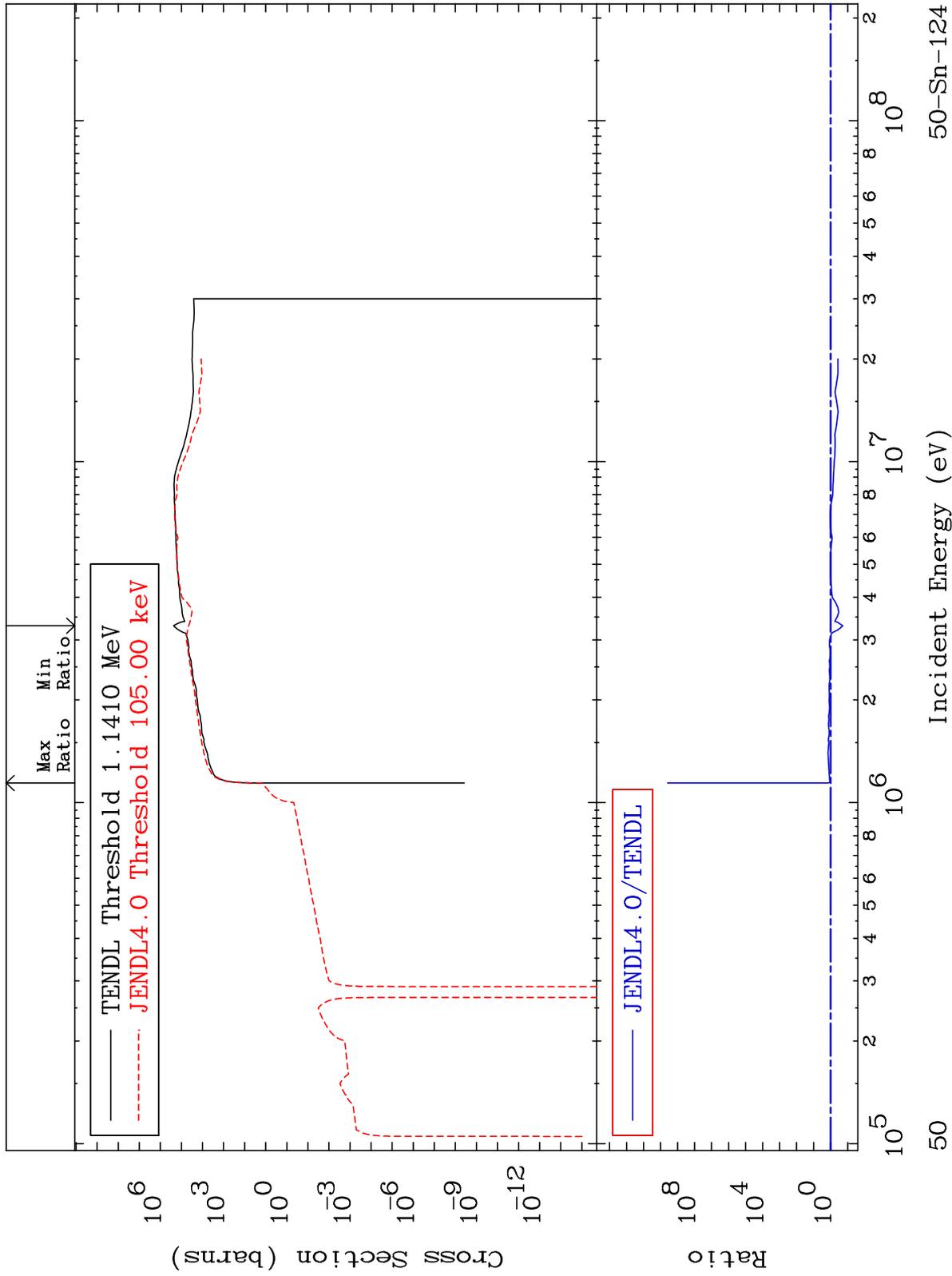
MAT 5061

Kerma inelastic (mt51-91)

50-Sn-124

-80.85 To 9999. %

Cross Section

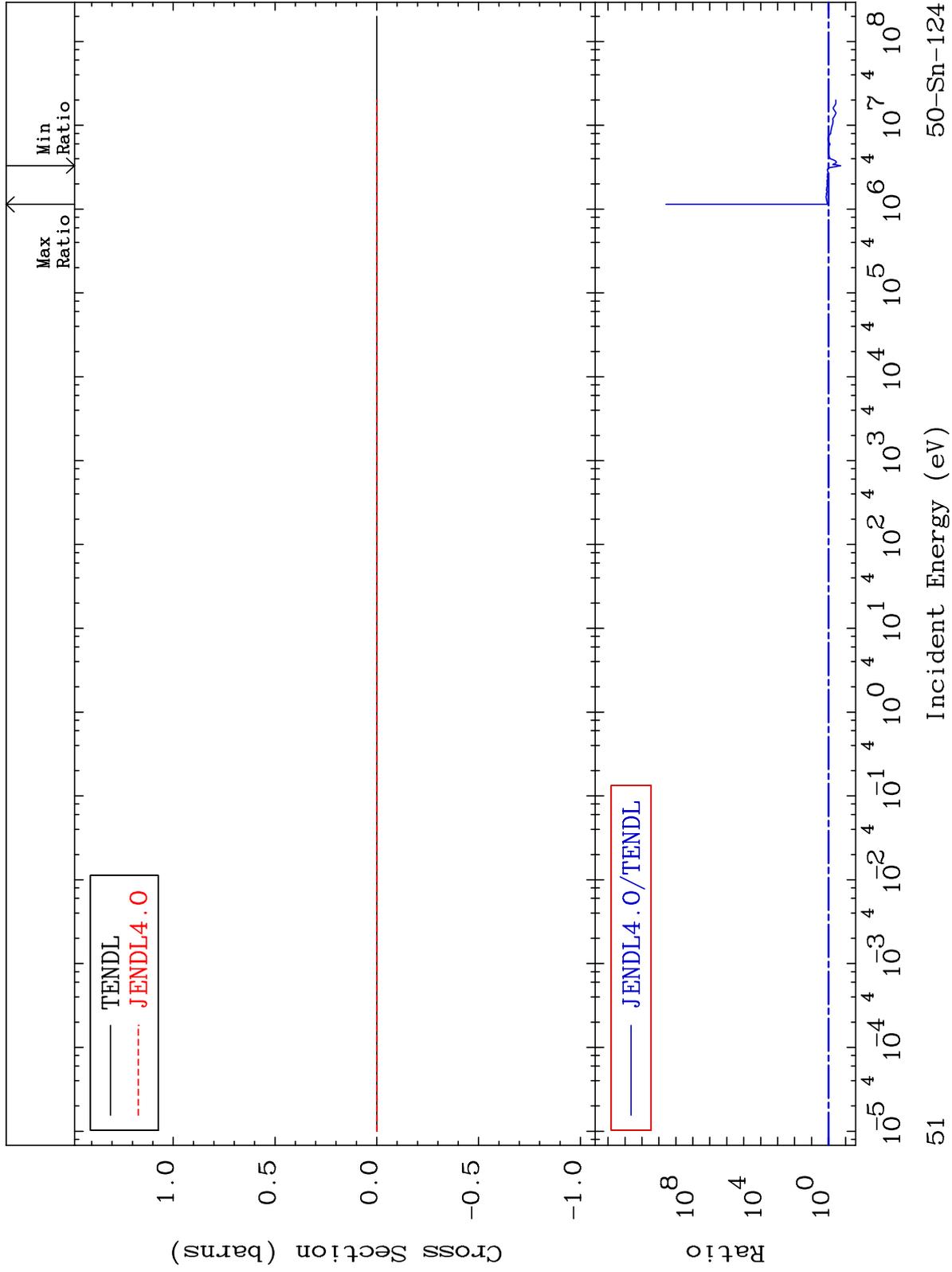


50

MAT 5061

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

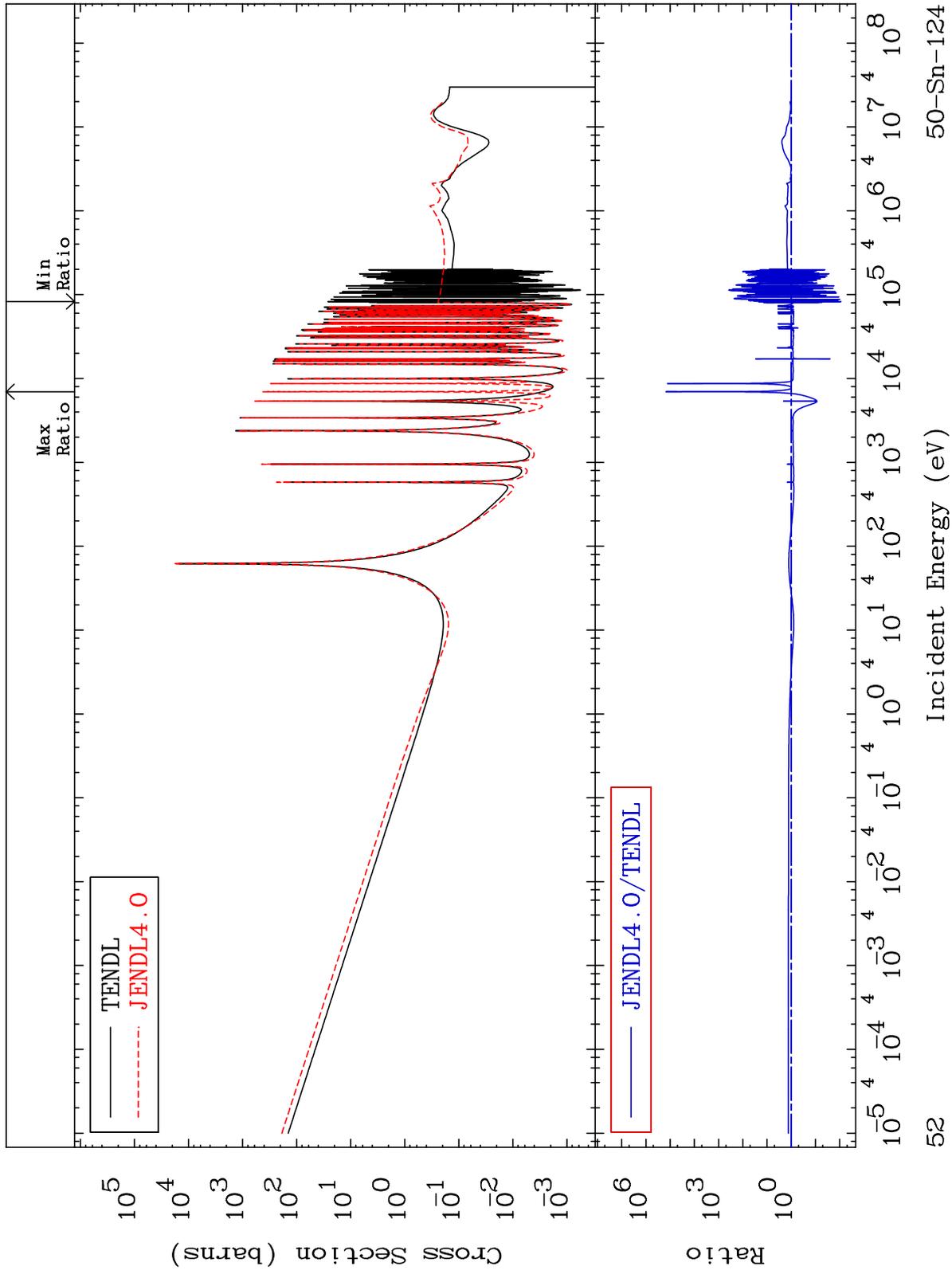
50-Sn-124  
-80.85 To 9999. %



MAT 5061

Kerma capture (mt102)  
Cross Section

50-Sn-124  
-99.09 To 9999. %

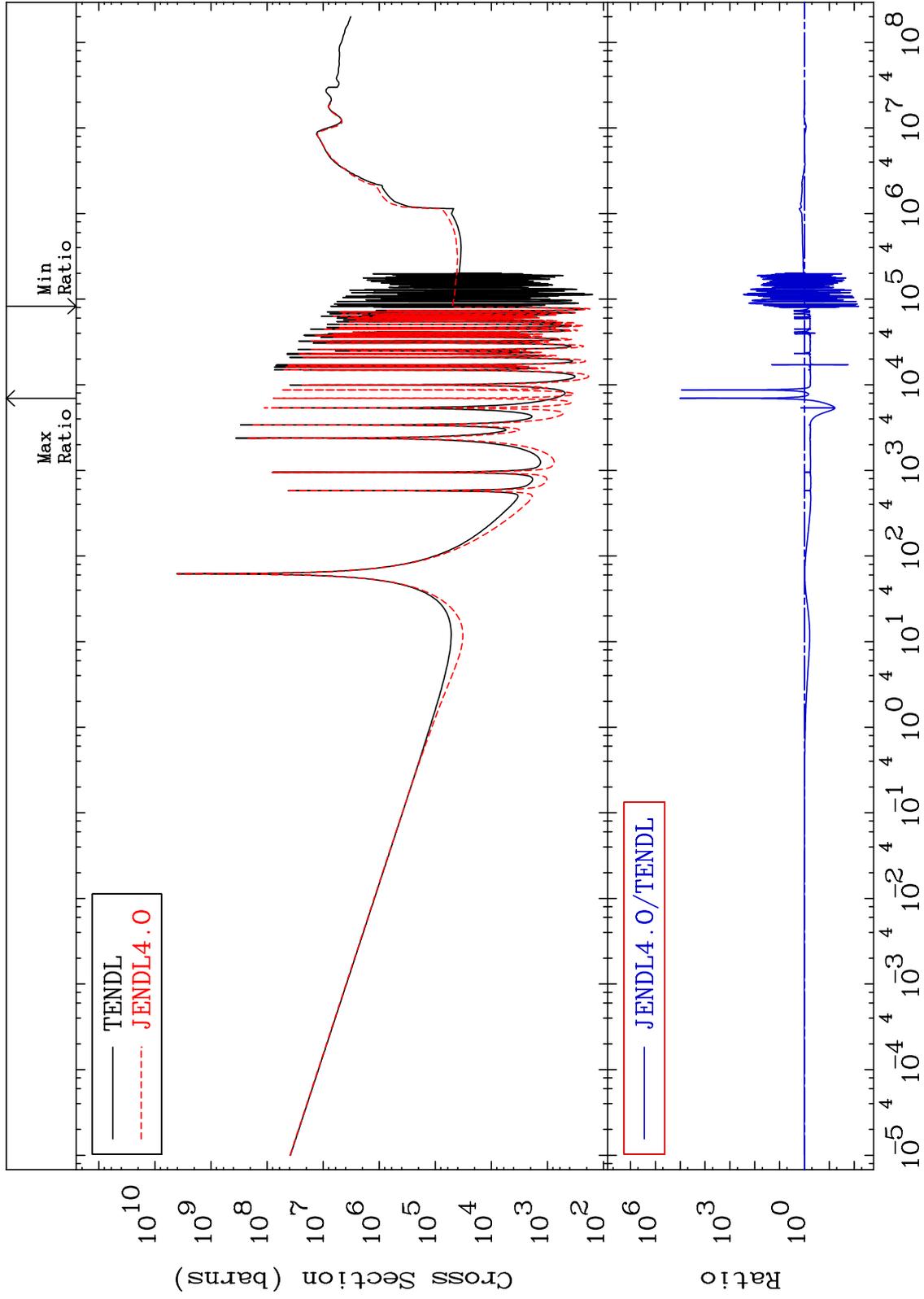


MAT 5061

Total photon (eV-barns)  
Cross Section

50-Sn-124

-99.32 To 9999. %



53

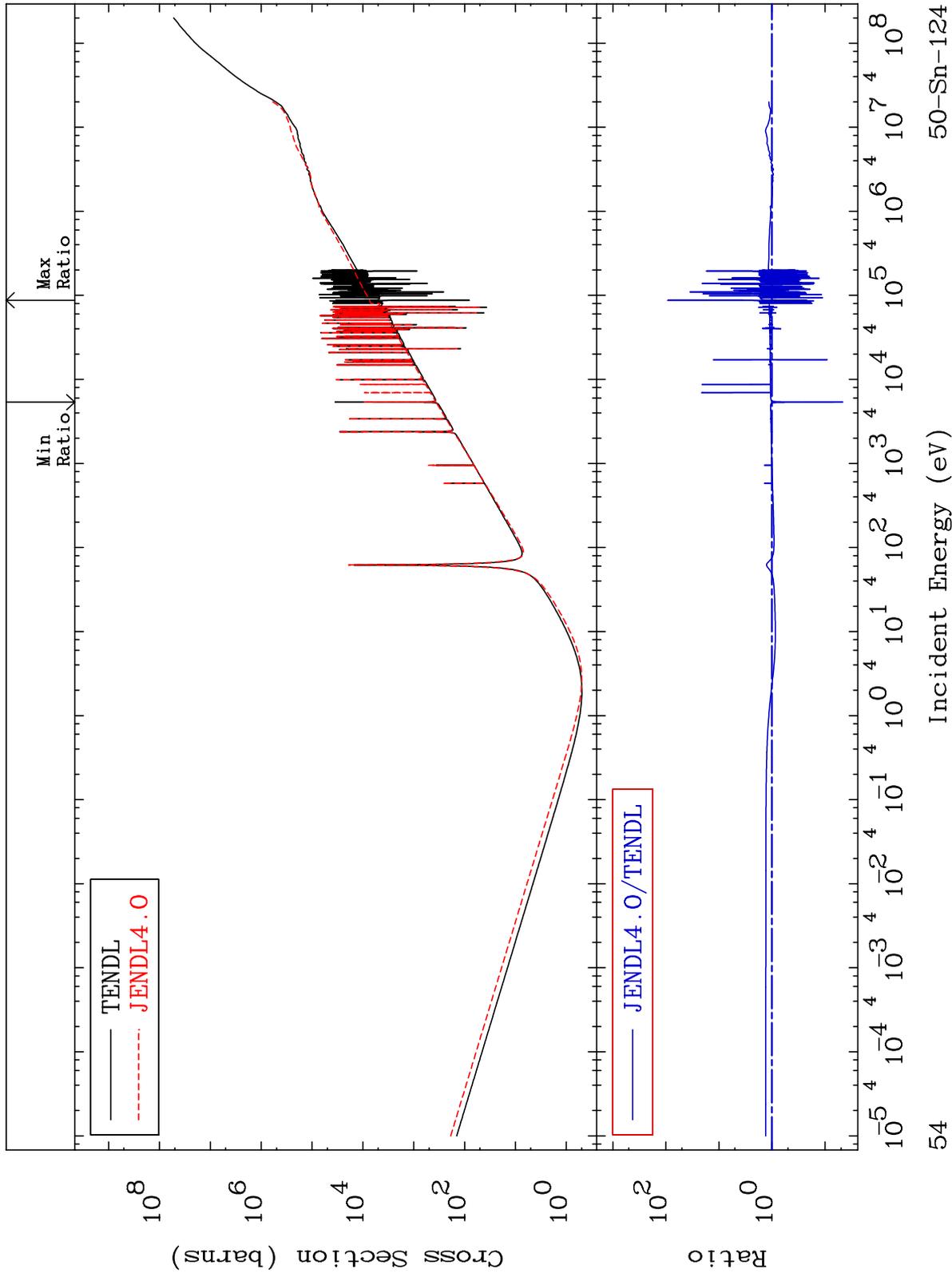
Incident Energy (eV)

50-Sn-124

MAT 5061

Total kinematic kerma (high limit)  
Cross Section

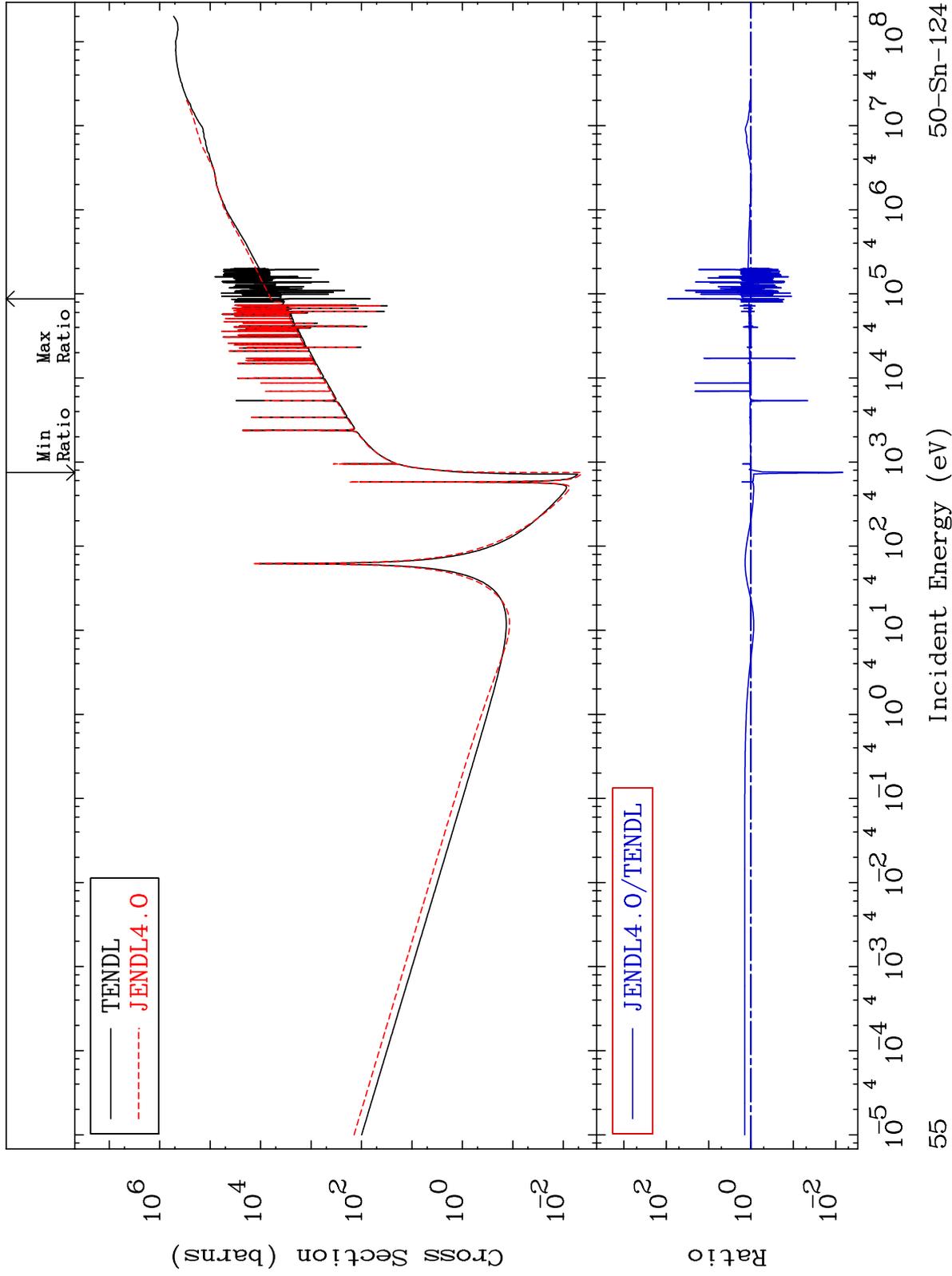
50-Sn-124  
-95.39 To 9178. %



MAT 5061

Dpa total (eV-barns)  
Cross Section

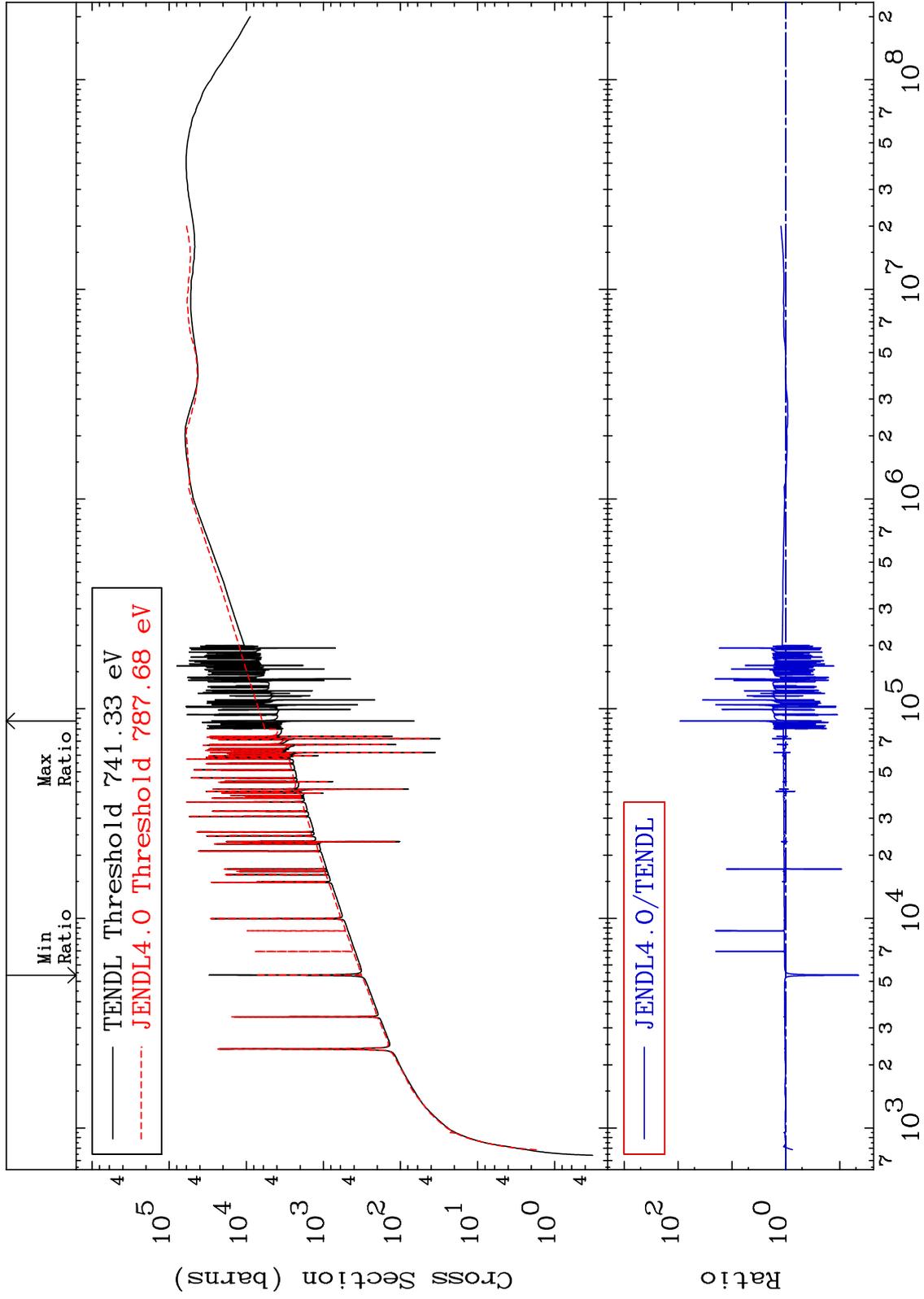
50-Sn-124  
-99.32 To 9171. %



MAT 5061

Dpa elastic (mt2)  
Cross Section

50-Sn-124  
-95.48 To 9178. %



56

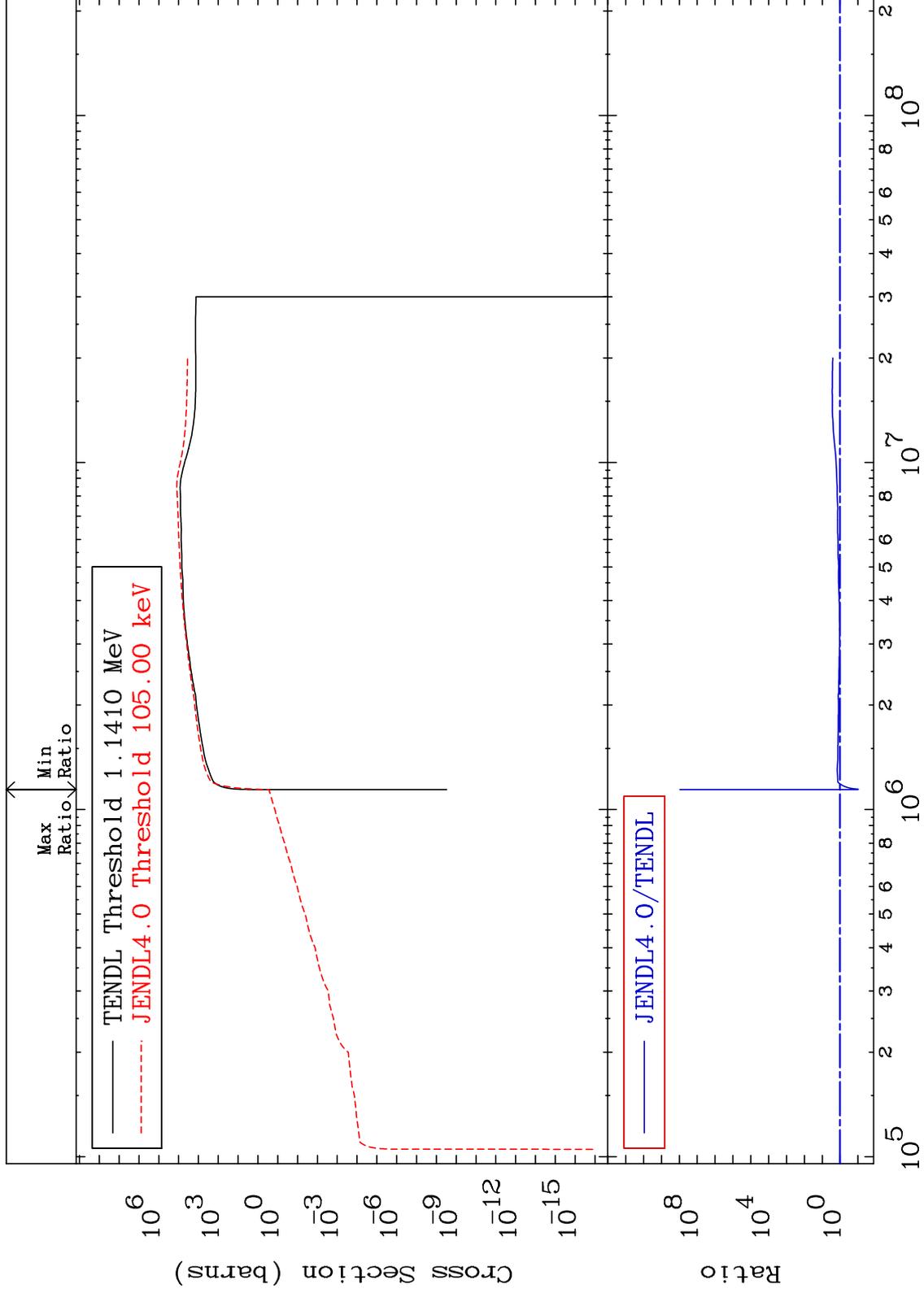
Incident Energy (eV)

50-Sn-124

MAT 5061

Dpa inelastic (mt51-91)  
Cross Section

50-Sn-124  
-90.53 To 9999. %



57

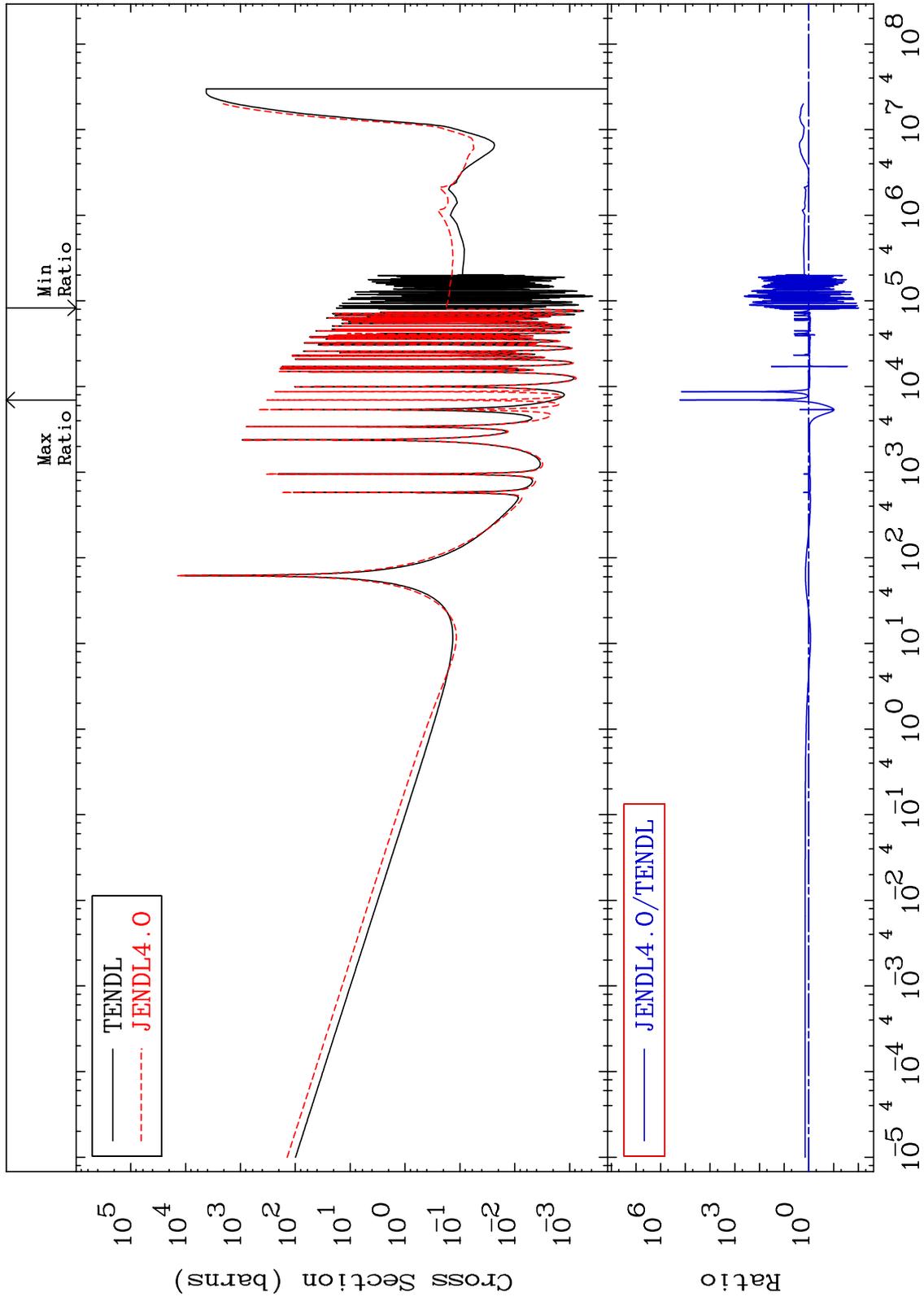
Incident Energy (eV)

50-Sn-124

MAT 5061

Dpa disappearance (mt102 -120)  
Cross Section

50-Sn-124  
-99.01 To 9999. %



58

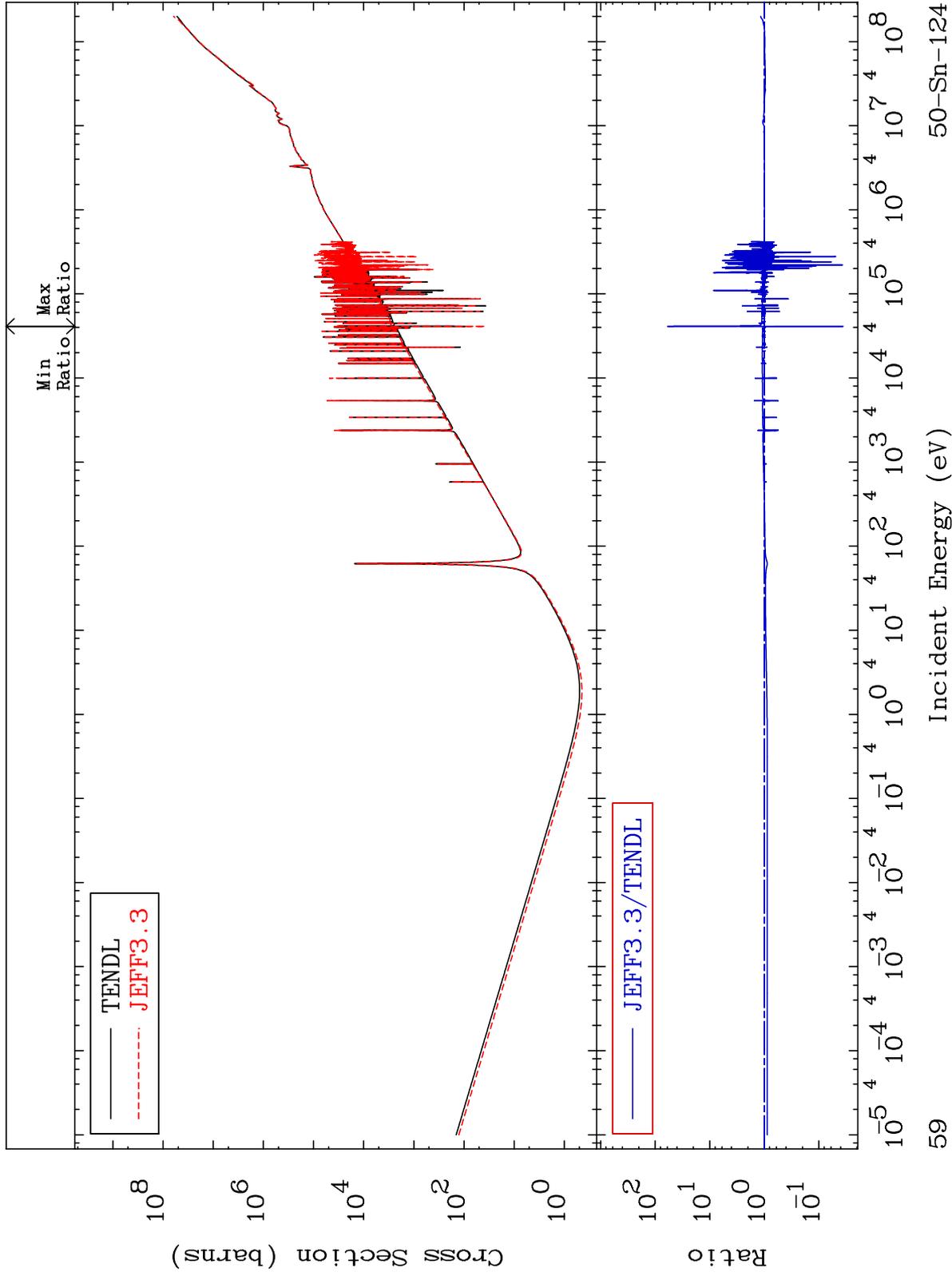
Incident Energy (eV)

50-Sn-124

MAT 5061

Kerma total (eV-barns)  
Cross Section

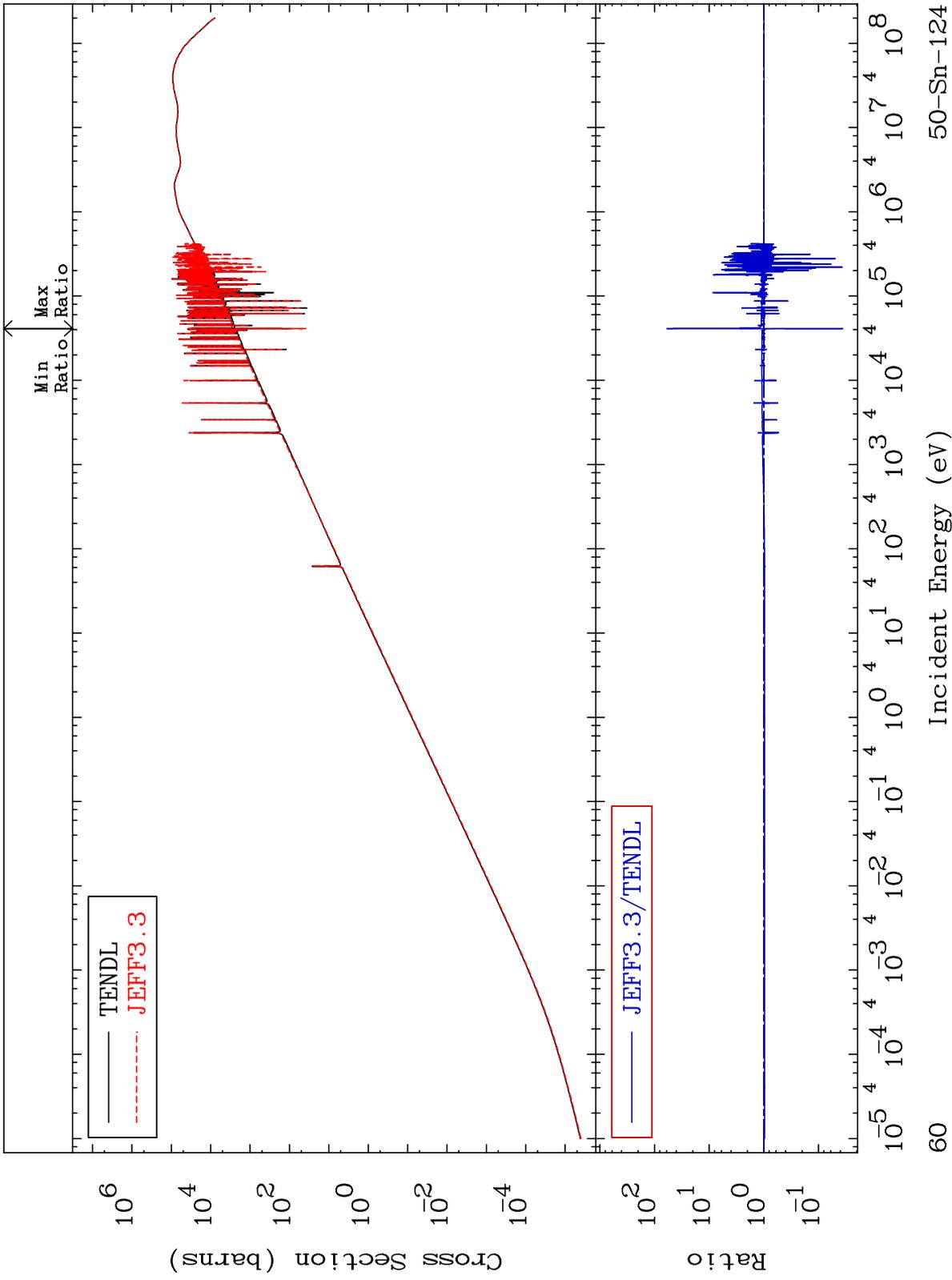
50-Sn-124  
-96.36 To 5819. %



MAT 5061

Kerma elastic  
Cross Section

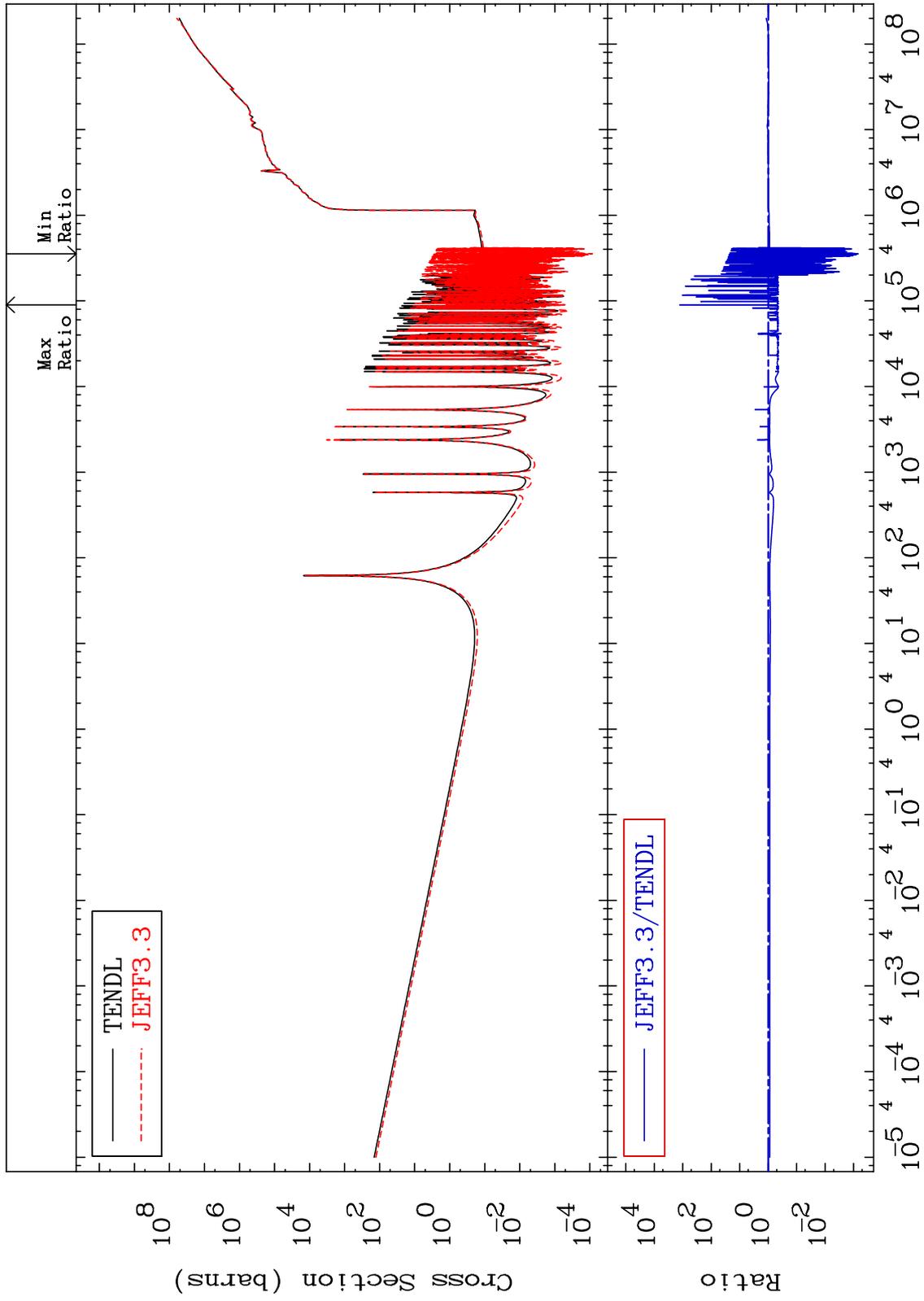
50-Sn-124  
-96.37 To 5838. %



MAT 5061

Kerma non-elastic (all but mt2)  
Cross Section

50-Sn-124  
-99.93 To 9999. %



61

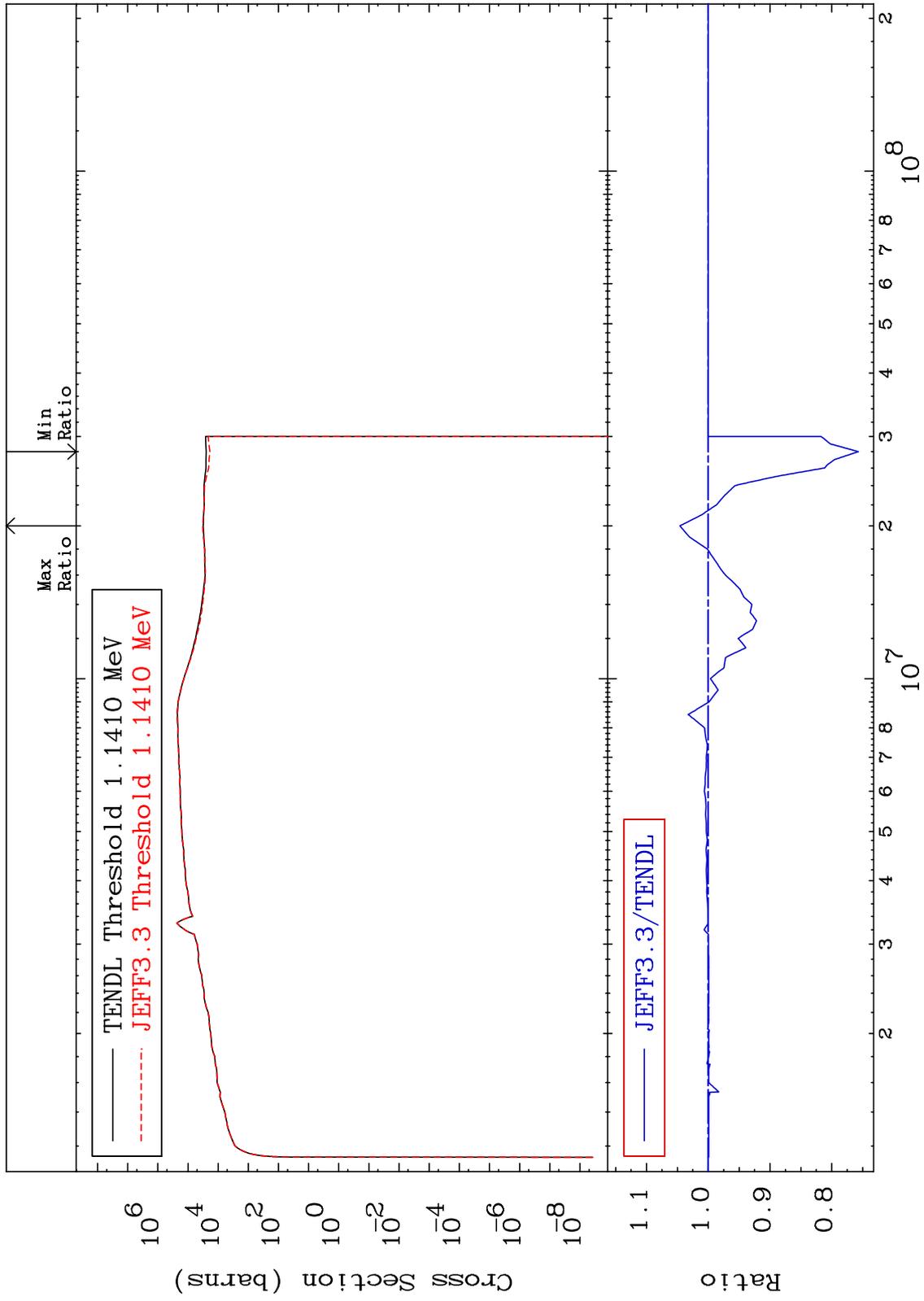
Incident Energy (eV)

50-Sn-124

MAT 5061

Kerma inelastic (mt51-91)  
Cross Section

50-Sn-124  
-24.32 To 4.589 %



62

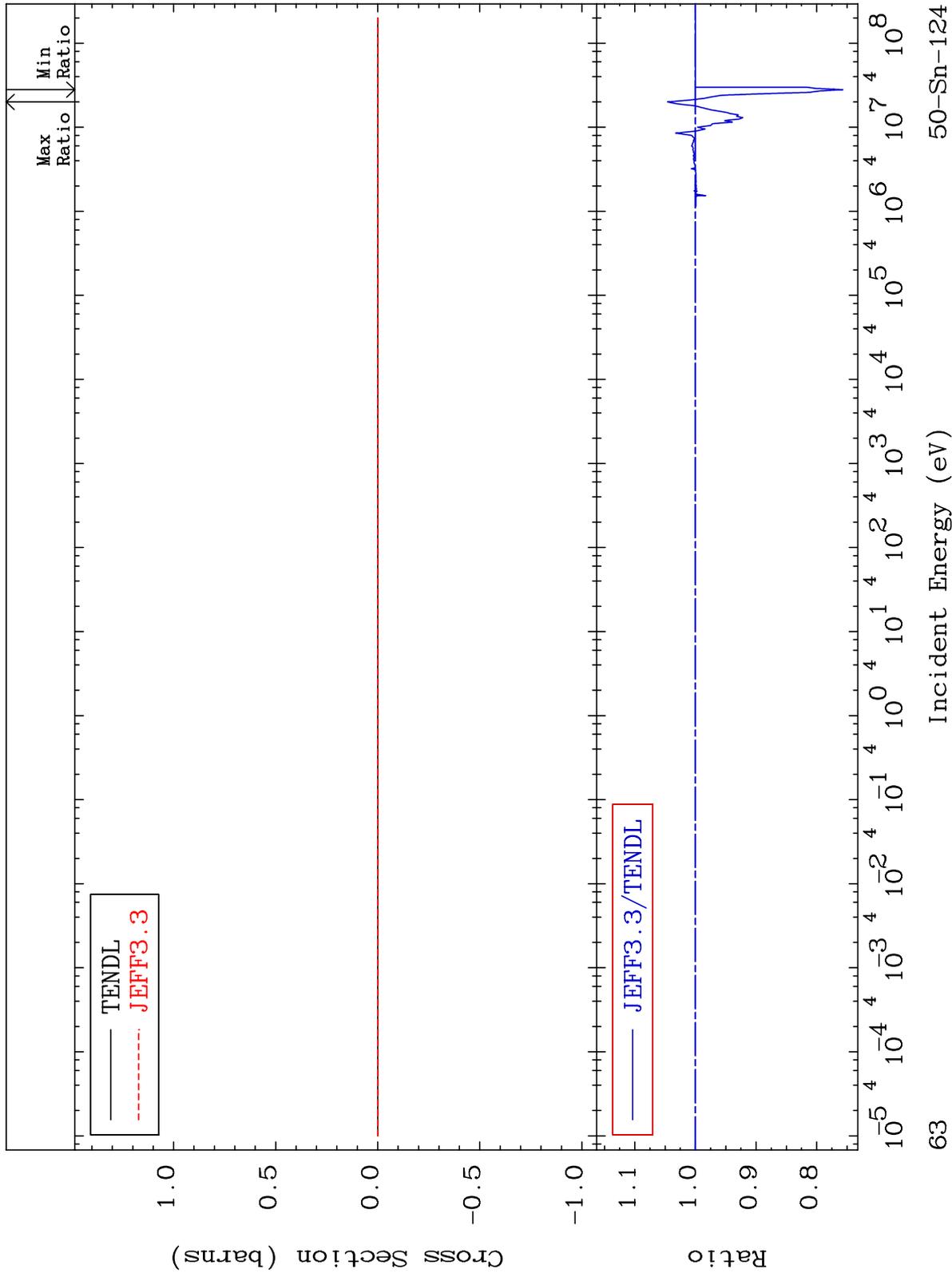
Incident Energy (eV)

50-Sn-124

MAT 5061

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

50-Sn-124  
-24.32 To 4.589 %



63

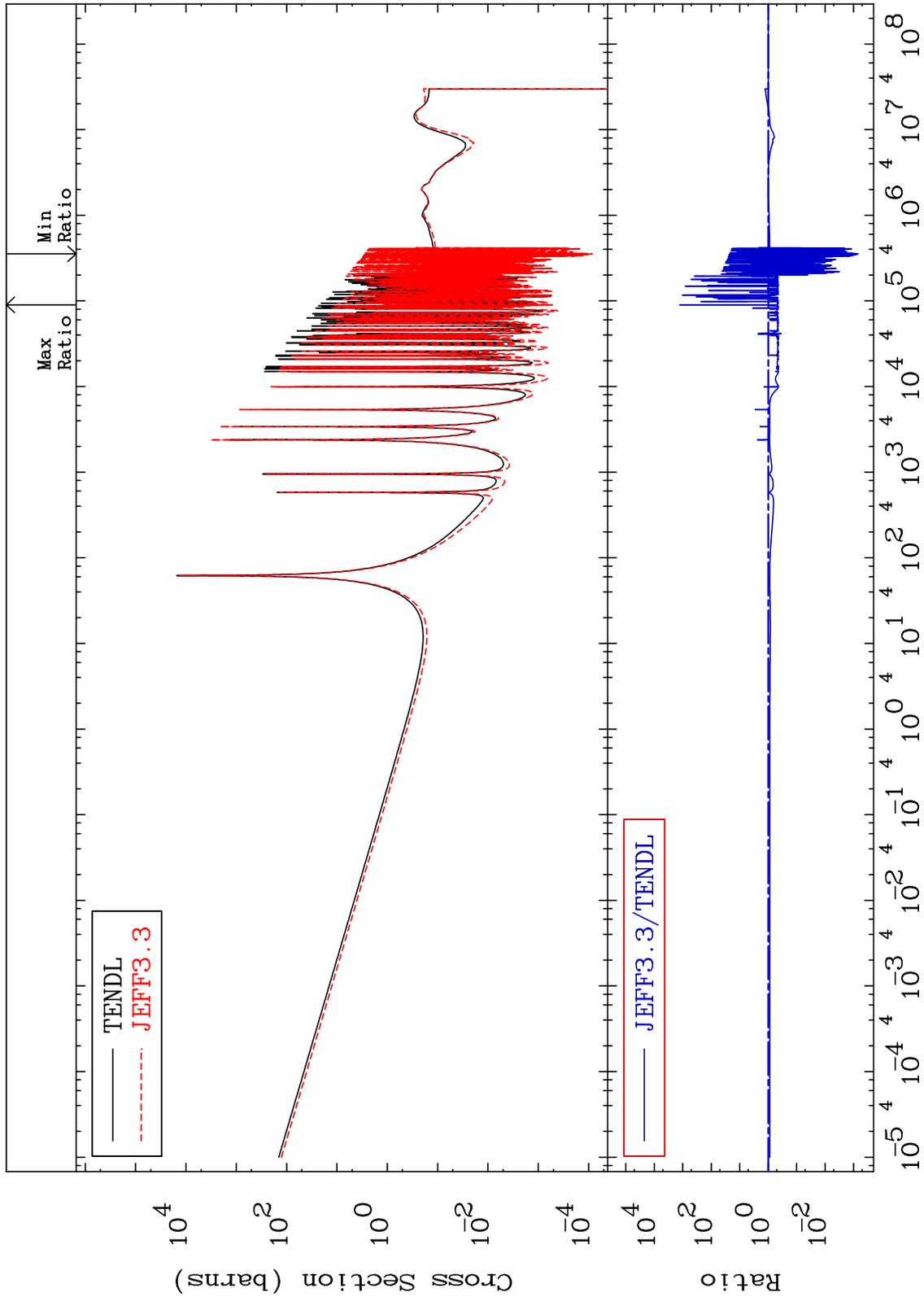
Incident Energy (eV)

50-Sn-124

MAT 5061

Kerma capture (mt102)  
Cross Section

50-Sn-124  
-99.93 To 9999. %



64

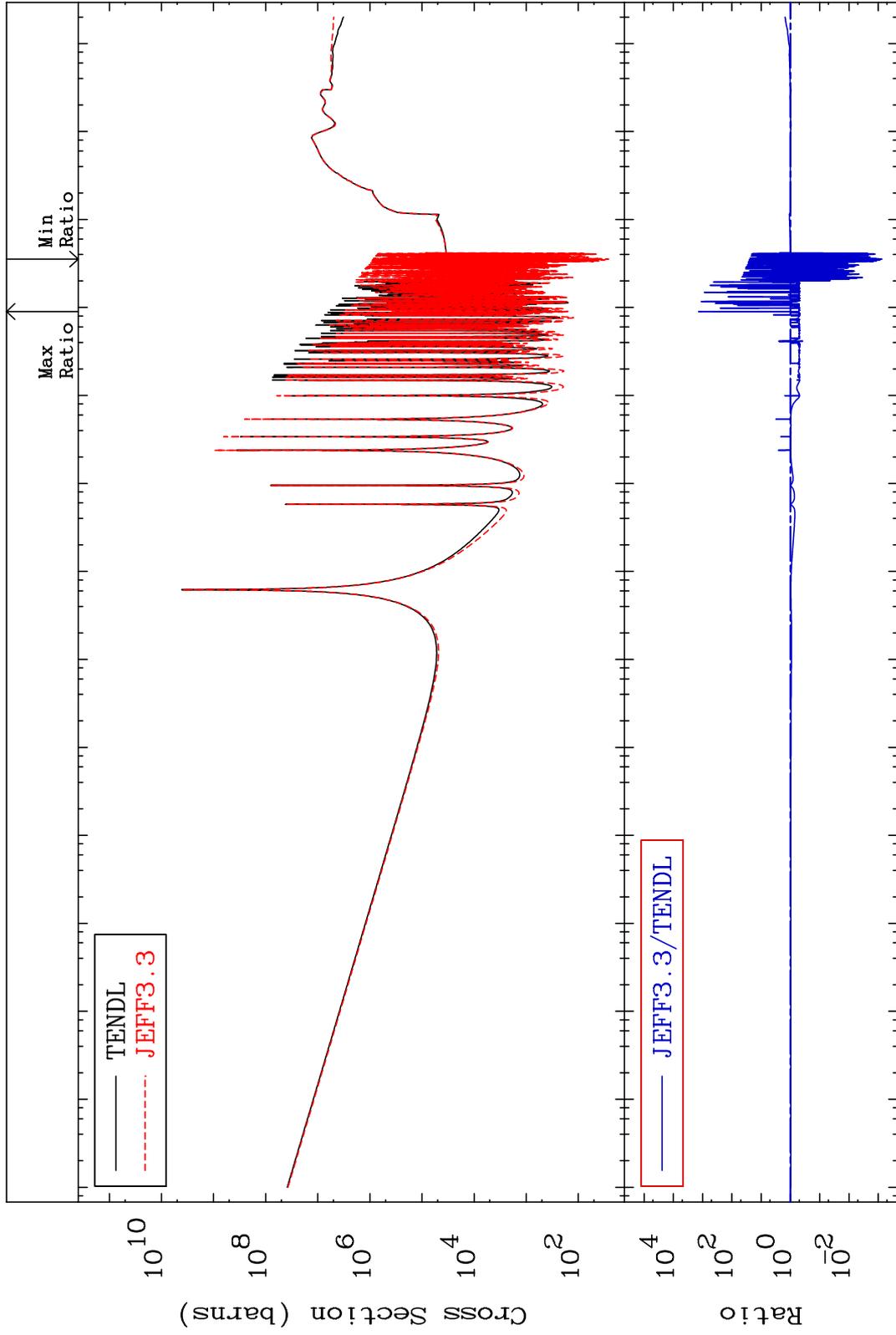
Incident Energy (eV)

50-Sn-124

MAT 5061

Total photon (eV-barns)  
Cross Section

50-Sn-124  
-99.93 To 9999. %

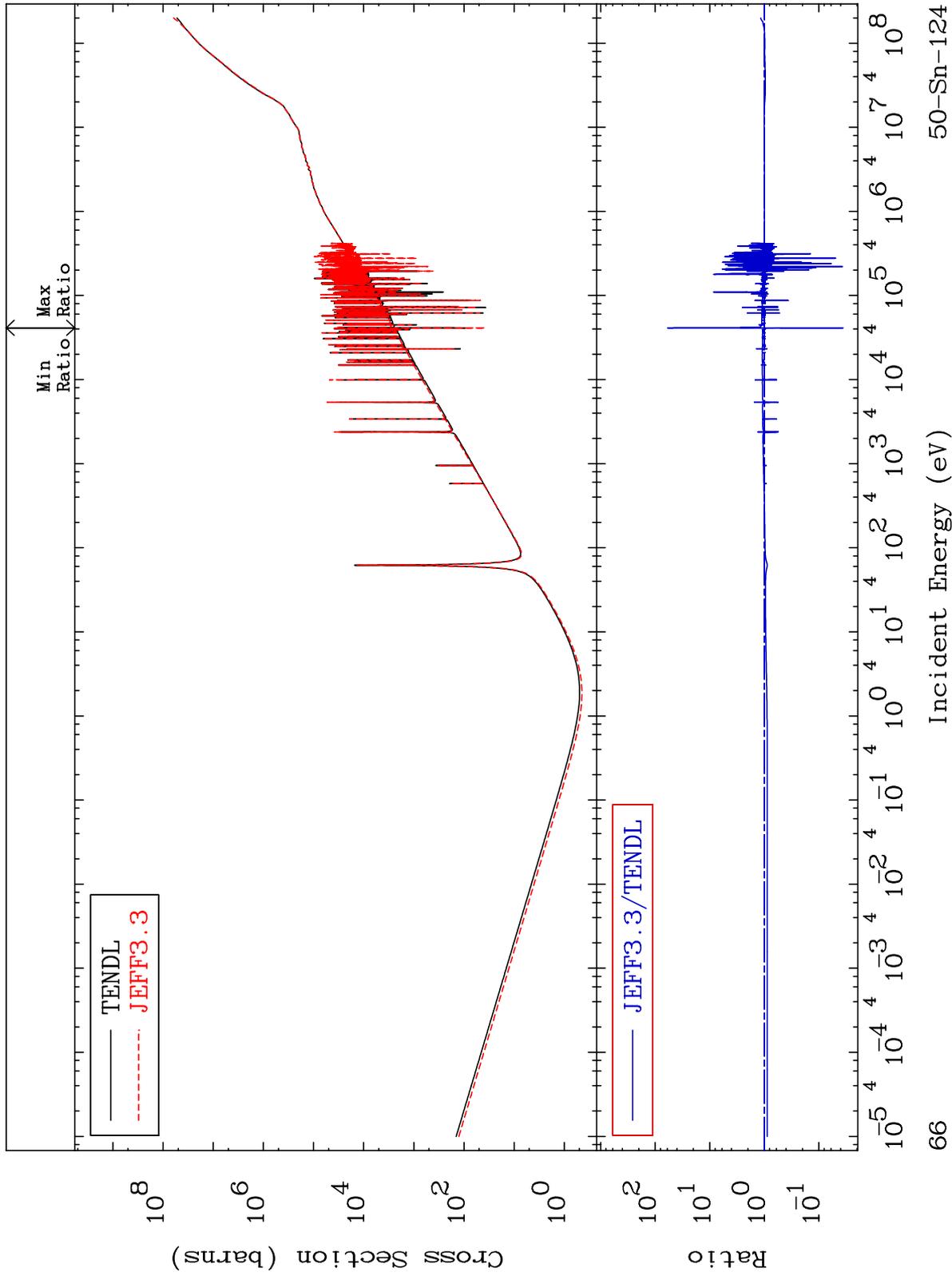


Incident Energy (eV) 50-Sn-124

MAT 5061

Total kinematic kerma (high limit)  
Cross Section

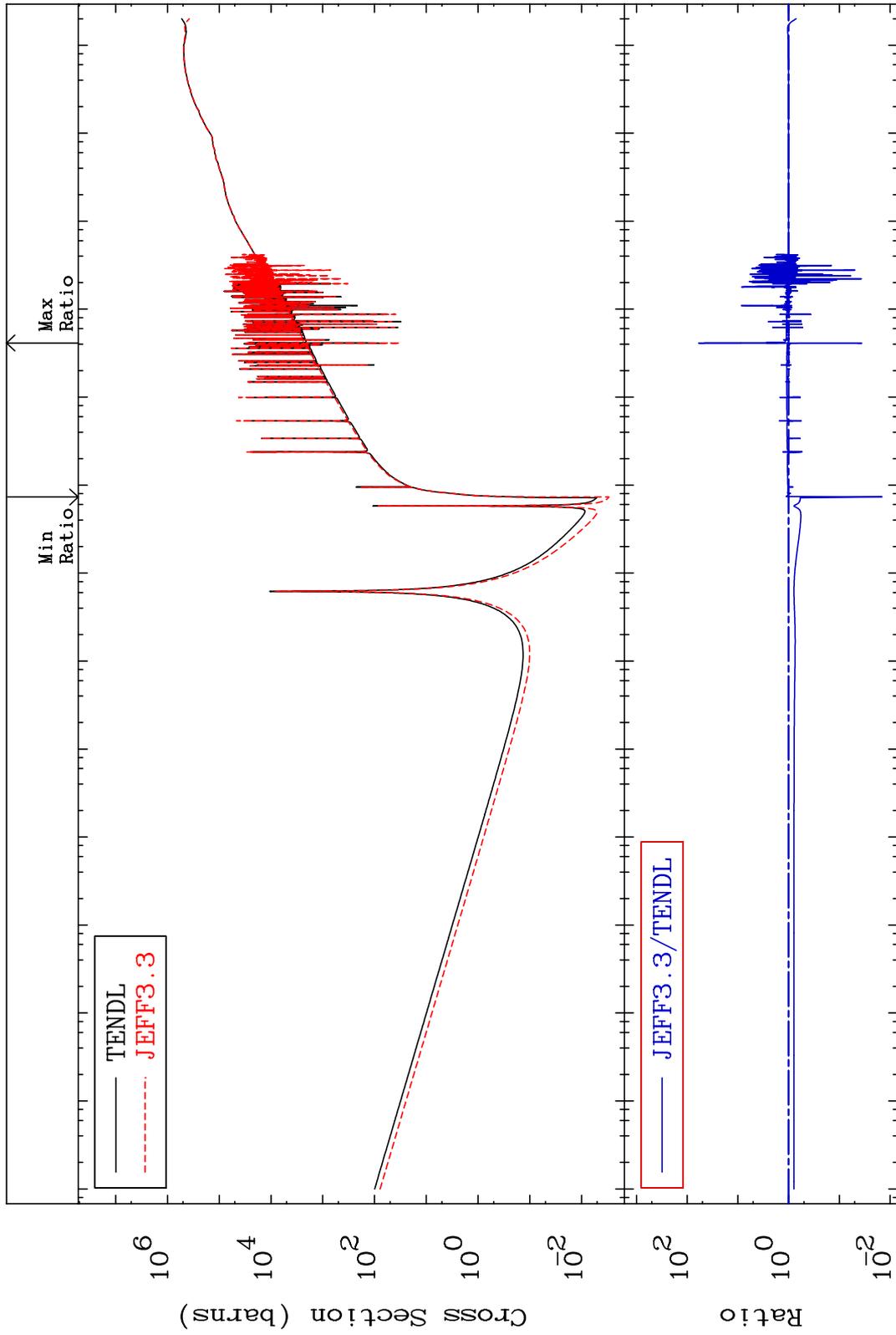
50-Sn-124  
-96.36 To 5819. %



MAT 5061

Dpa total (eV-barns)  
Cross Section

50-Sn-124  
-98.56 To 5823. %



67

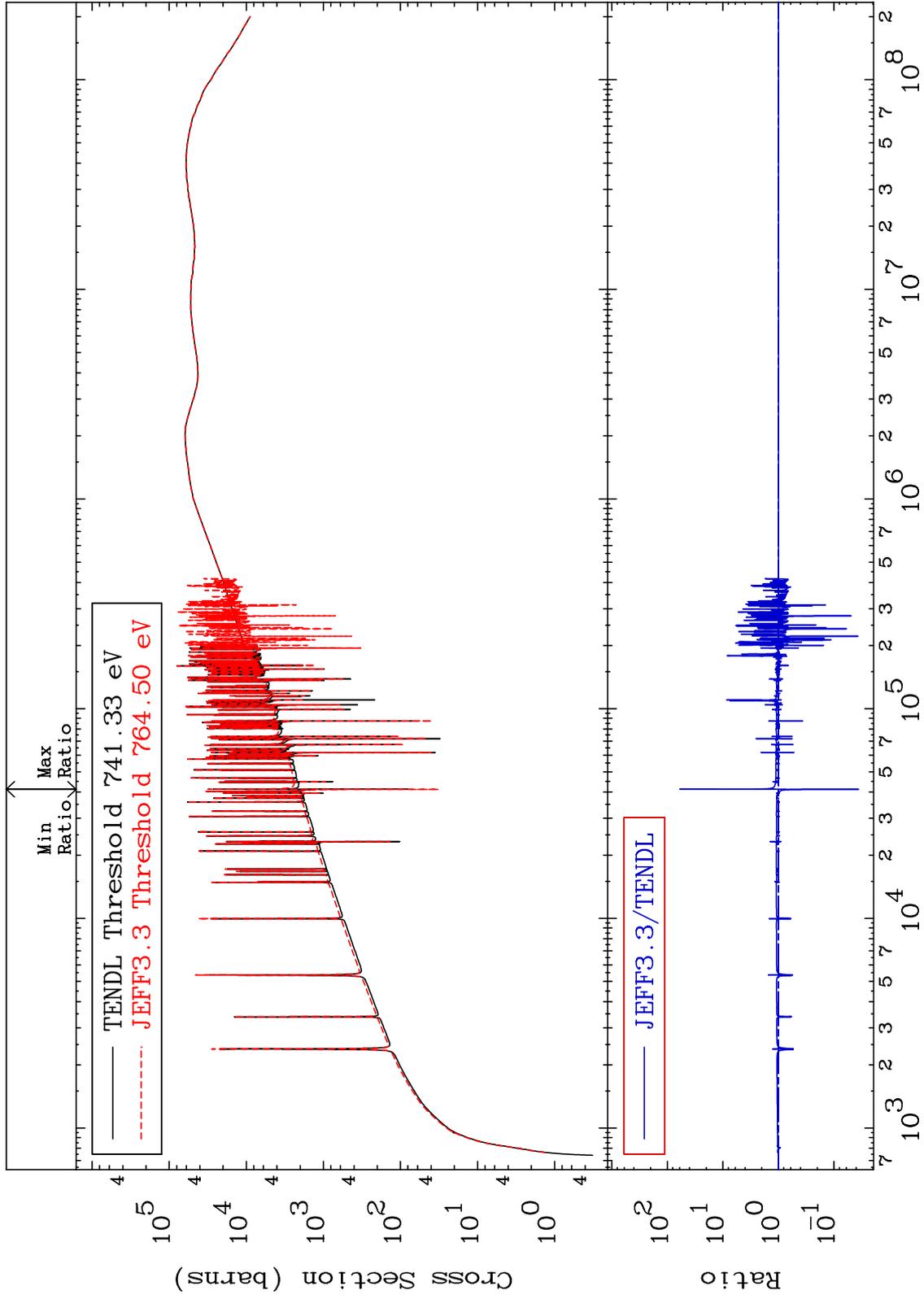
Incident Energy (eV)

50-Sn-124

MAT 5061

Dpa elastic (mt2)  
Cross Section

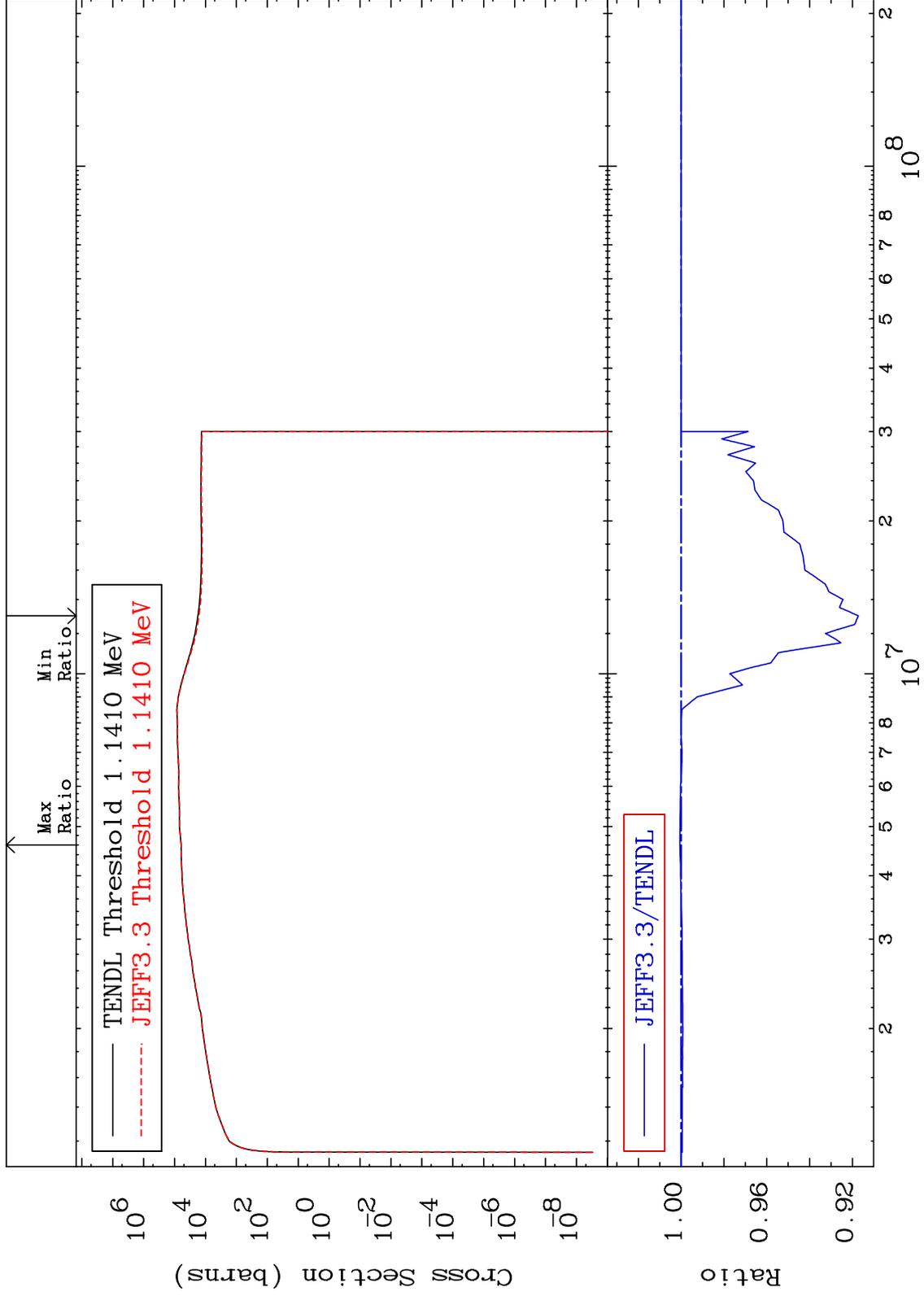
50-Sn-124  
-96.37 To 5838. %



MAT 5061

Dpa inelastic (mt51-91)  
Cross Section

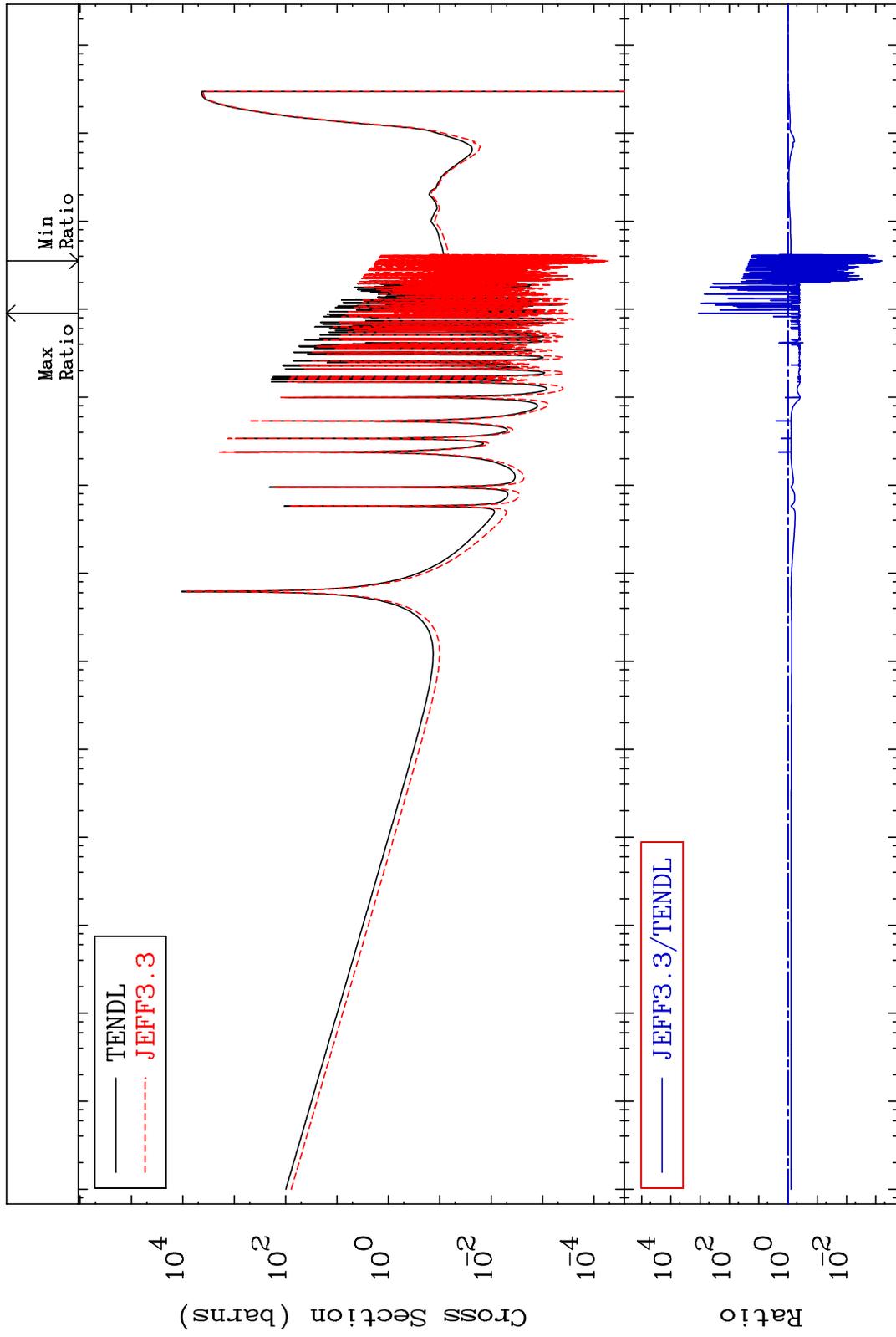
50-Sn-124  
-8.279 To 0.056 %



MAT 5061

Dpa disappearance (mt102 -120)  
Cross Section

50-Sn-124  
-99.94 To 9999. %



70

Incident Energy (eV)

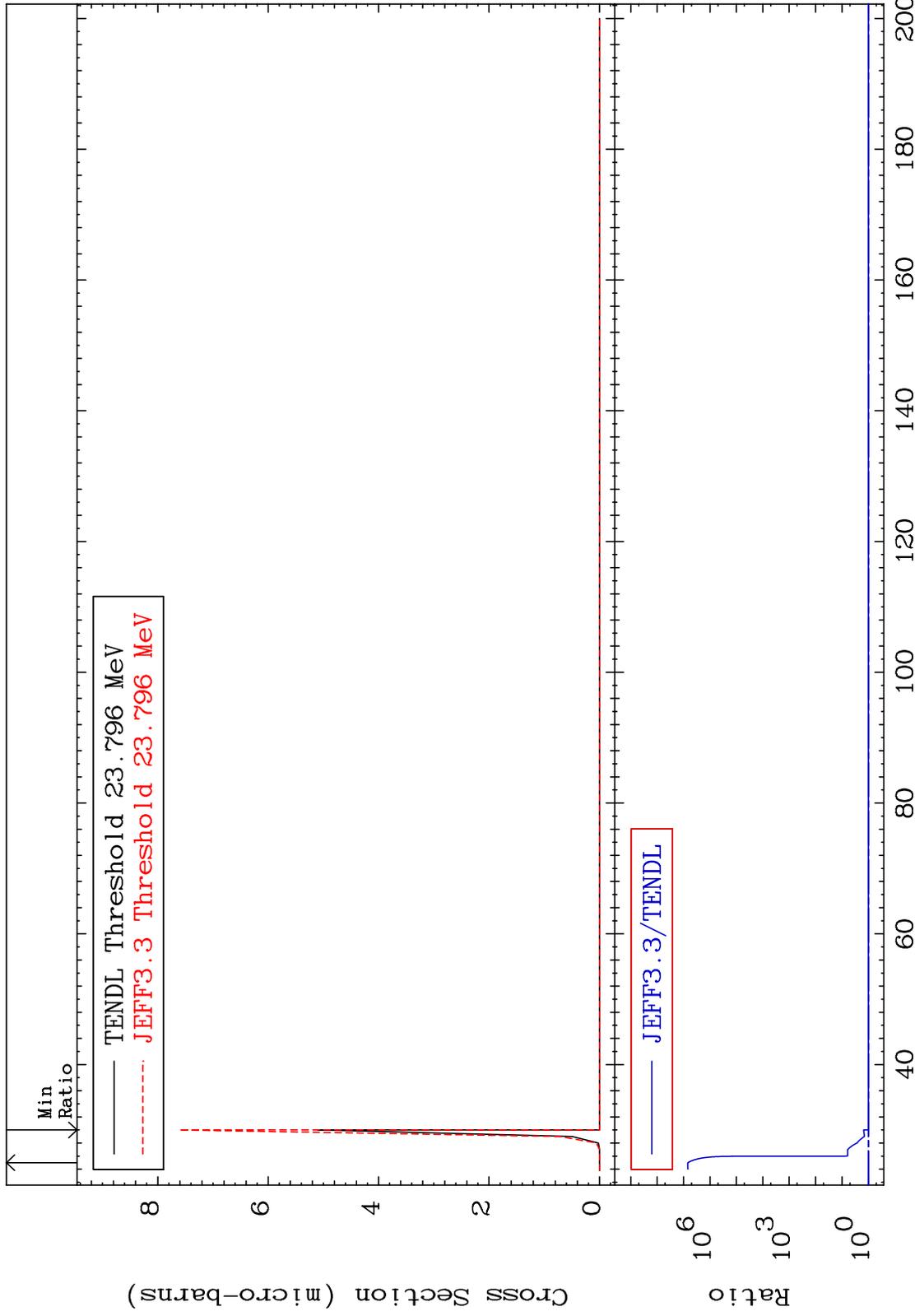
50-Sn-124

MAT 5061

(n,2n) d:49-In-121g

50-Sn-124

Radionuclide Production Cross Section 0.000 To 9999. %



71

Incident Energy (MeV)

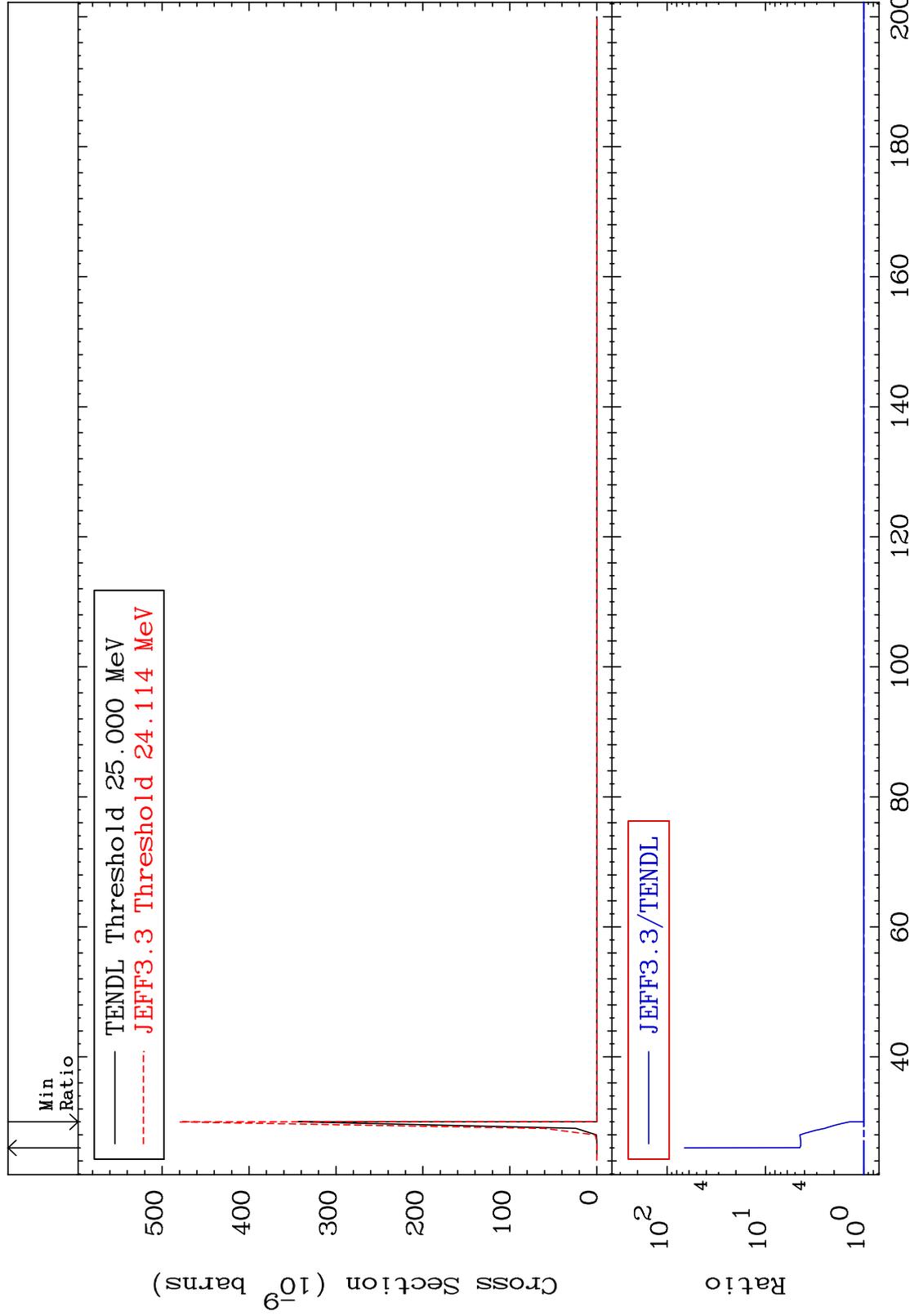
50-Sn-124

MAT 5061

(n,2n) d:49-In-121m1

50-Sn-124

Radionuclide Production Cross Section 0.000 To 6559. %



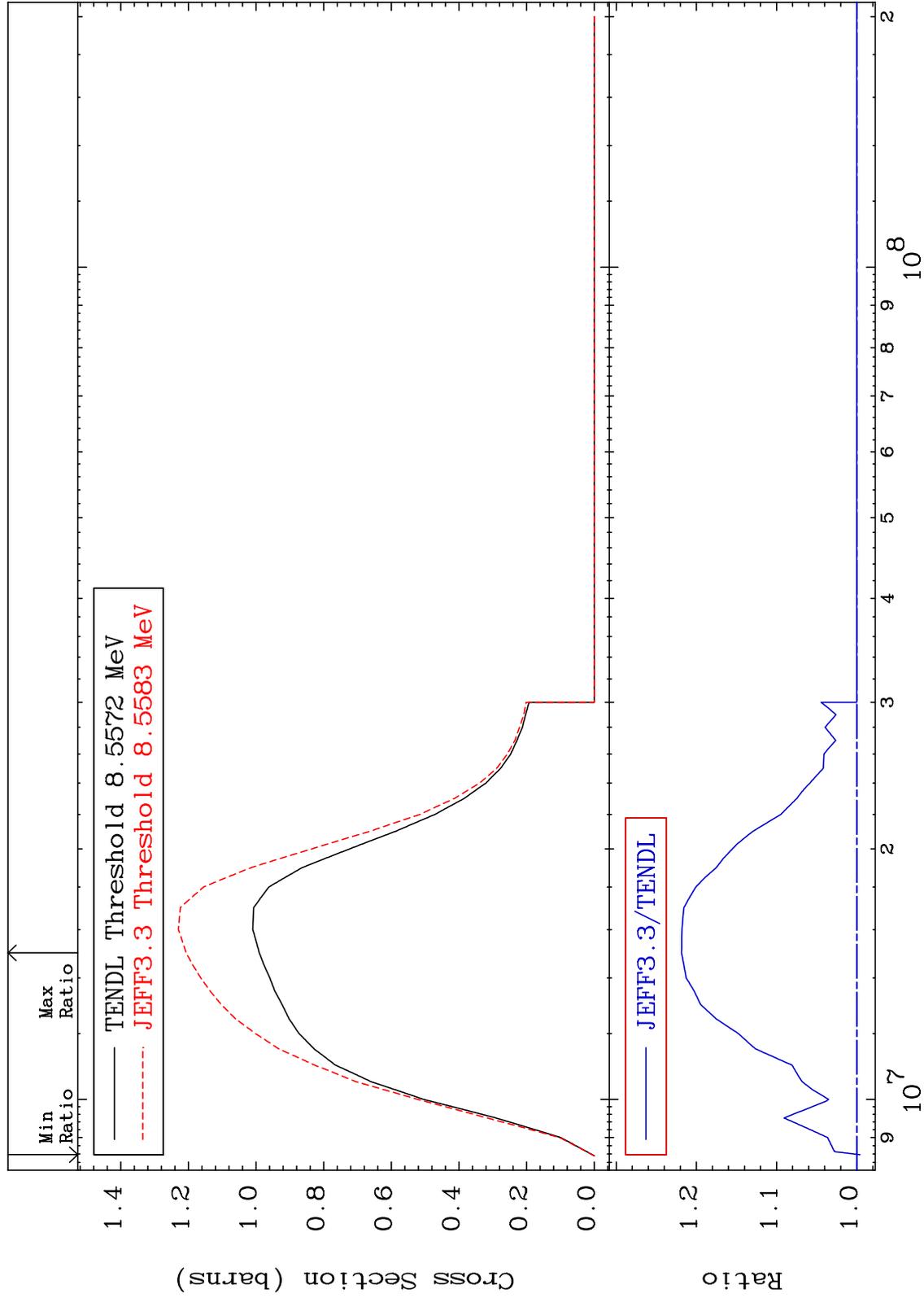
MAT 5061

(n,2n):50-Sn-123g

50-Sn-124

Radionuclide Production Cross Section

-0.409 To 21.85 %



73

Incident Energy (eV)

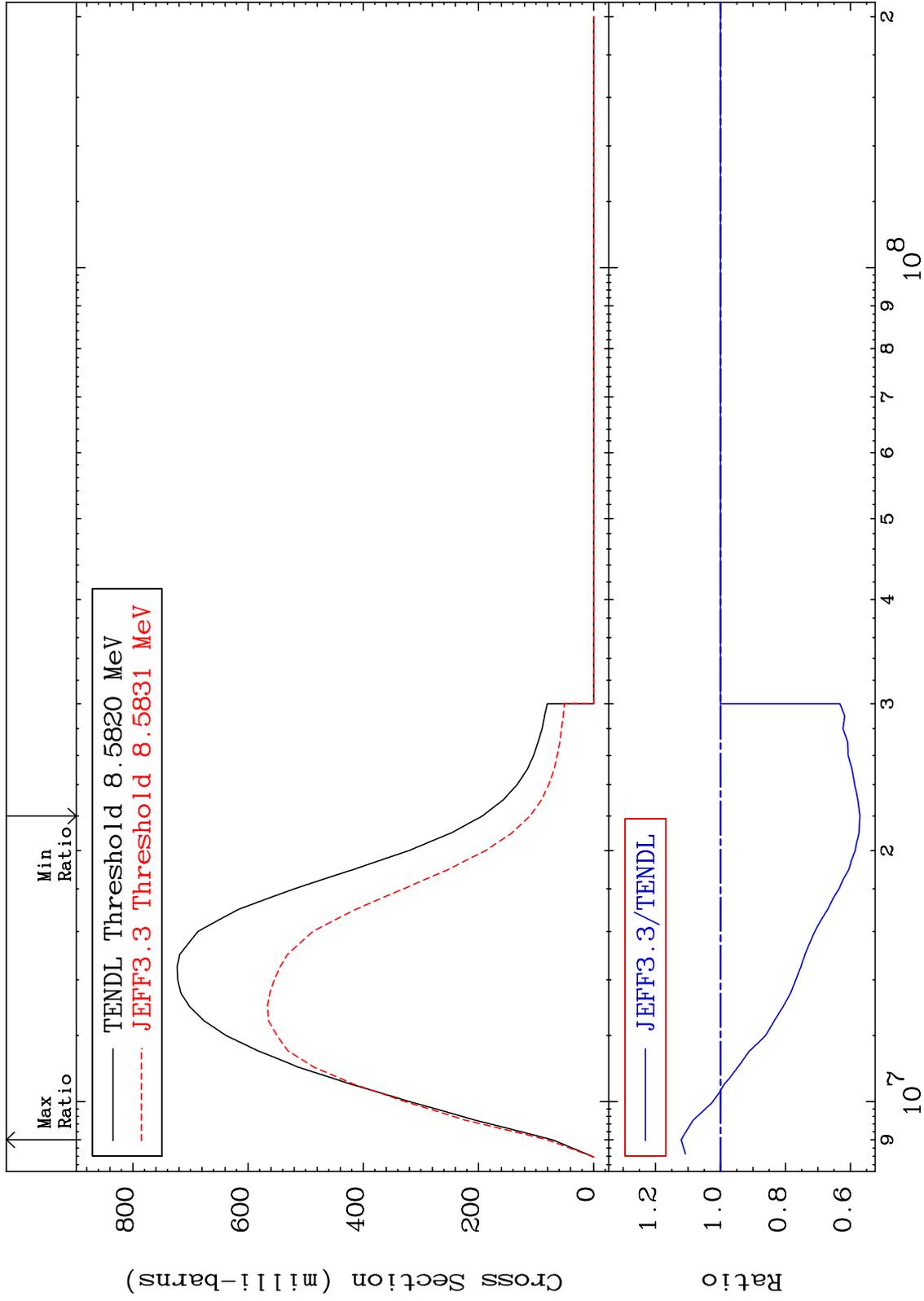
50-Sn-124

MAT 5061

(n,2n):50-Sn-123m1

50-Sn-124

Radionuclide Production Cross Section -42.93 To 12.12 %



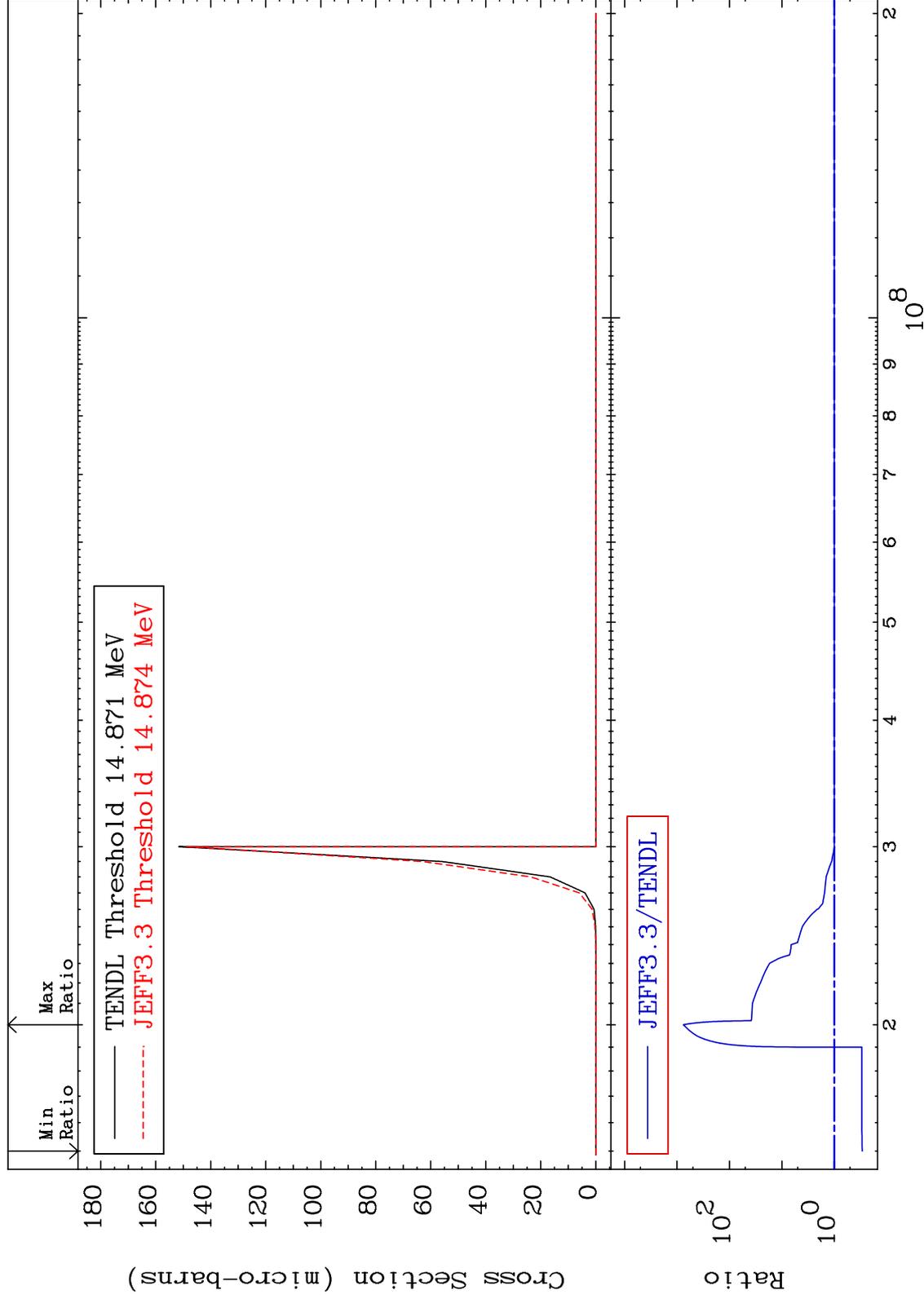
74

Incident Energy (eV)

50-Sn-124

MAT 5061

(n,2n)  $\alpha$ :48-Cd-119g 50-Sn-124  
Radionuclide Production Cross Section -70.77 To 9999. %



75

Incident Energy (eV)

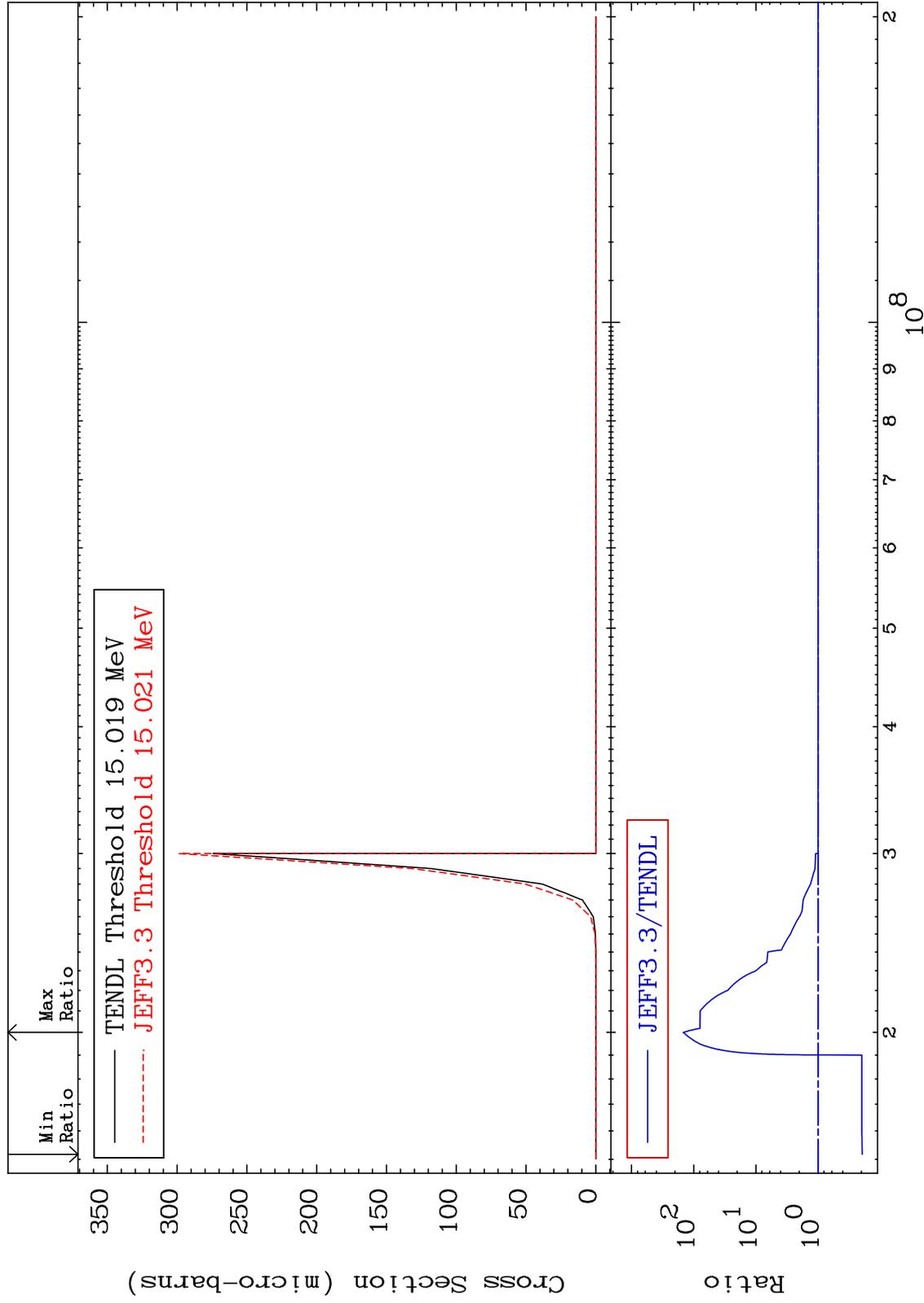
50-Sn-124

MAT 5061

(n,2n)  $\alpha$ : 48-Cd-119m2

50-Sn-124

Radionuclide Production Cross Section -80.66 To 9999. %

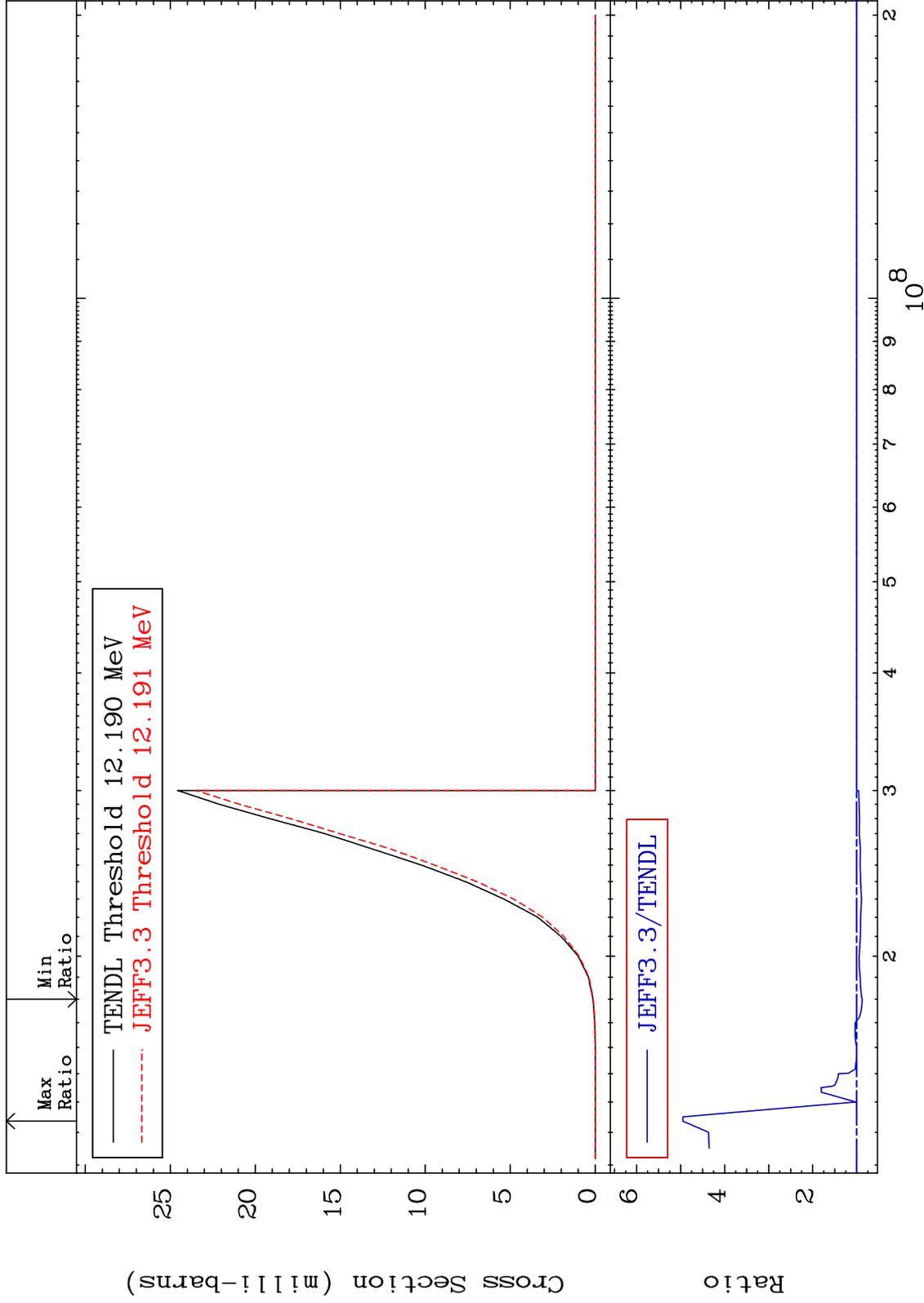


MAT 5061

(n, n') p:49-In-123g

50-Sn-124

Radionuclide Production Cross Section -12.36 To 394.8 %



77

Incident Energy (eV)

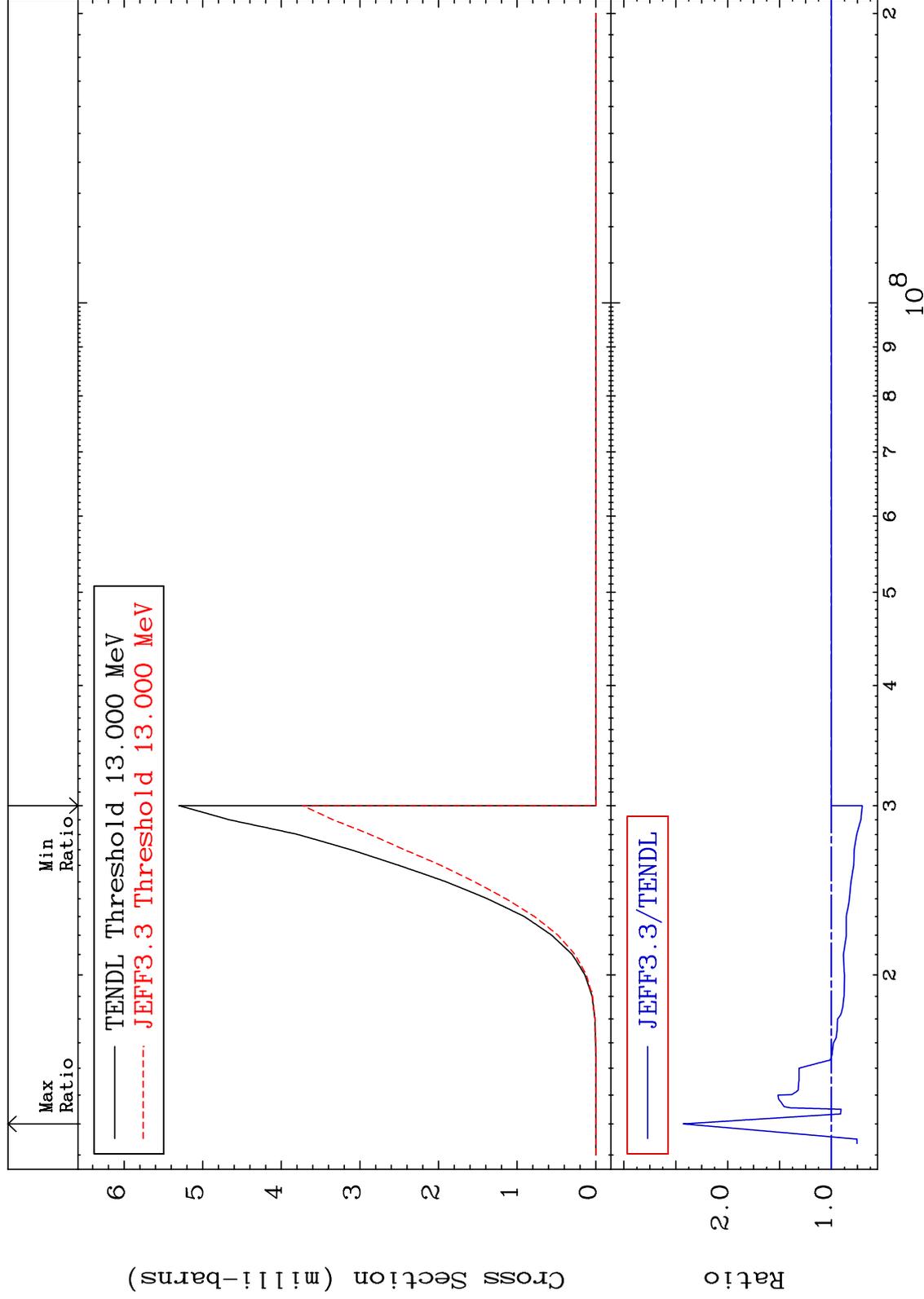
50-Sn-124

MAT 5061

(n, n') p: 49-In-123m1

50-Sn-124

Radionuclide Production Cross Section -29.70 To 142.7 %



78

Incident Energy (eV)

50-Sn-124

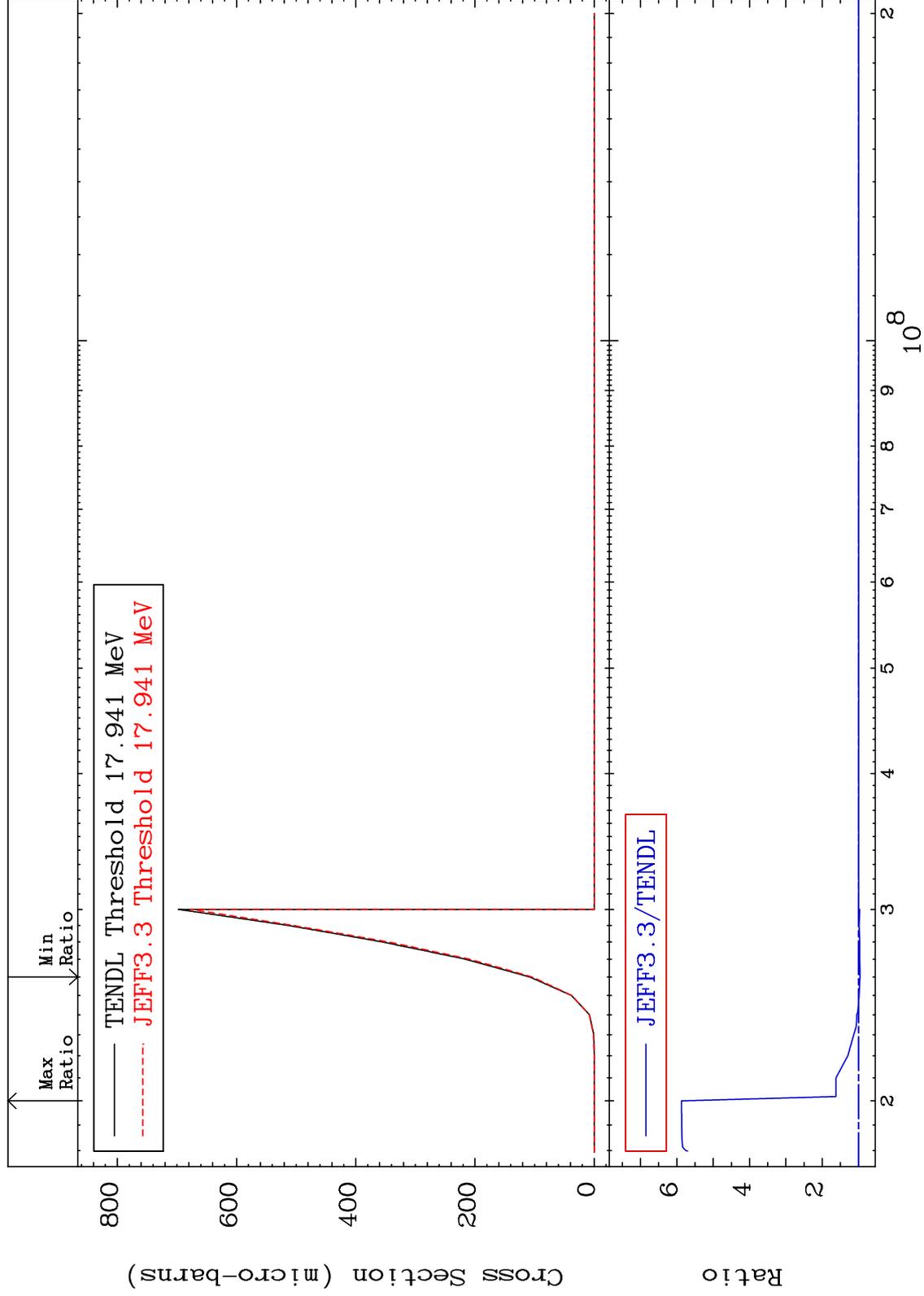
MAT 5061

(n, n') d:49-In-122g

50-Sn-124

Radionuclide Production Cross Section

-3.937 To 487.0 %



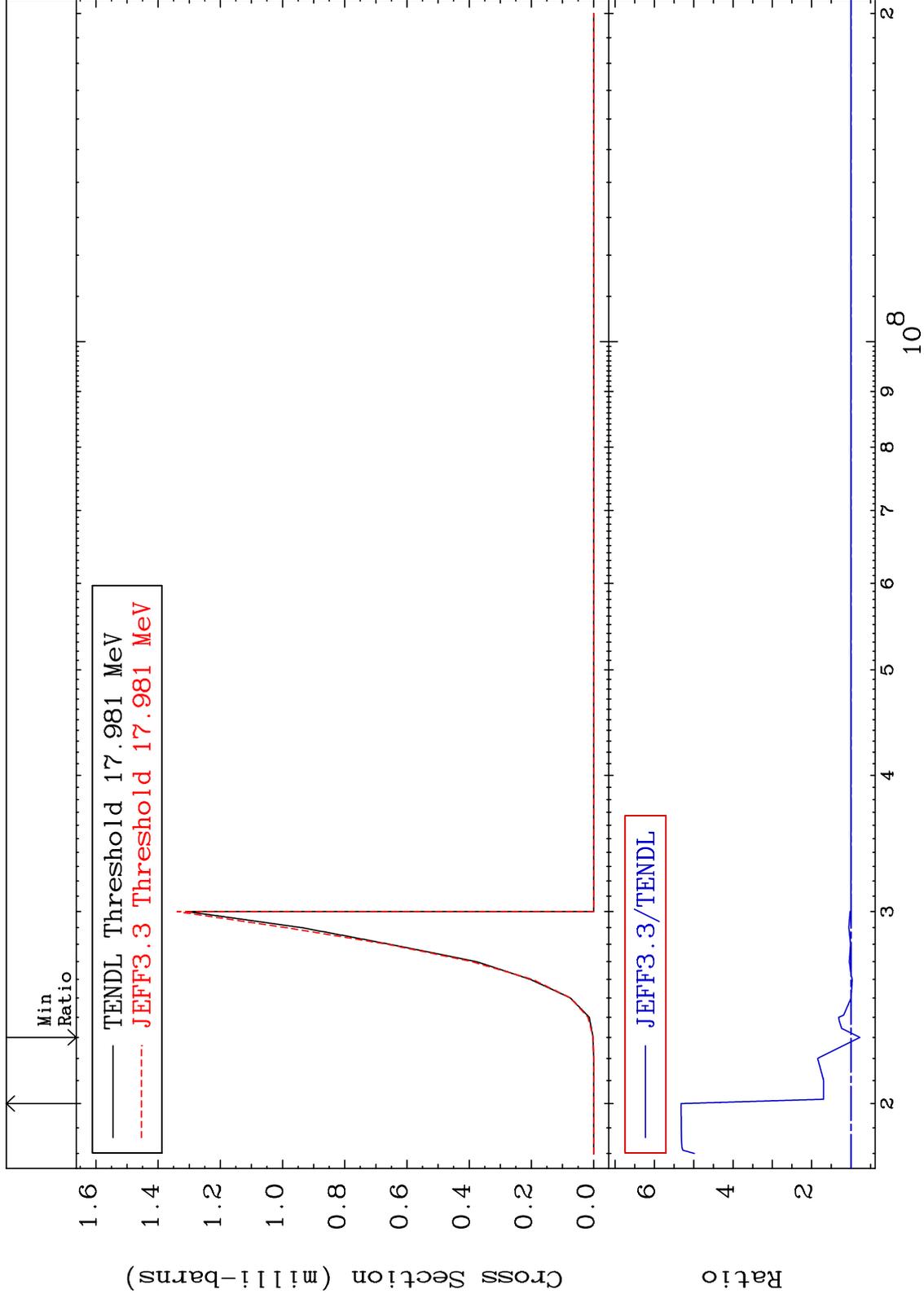
79

MAT 5061

(n, n') d: 49-In-122m1

50-Sn-124

Radionuclide Production Cross Section -22.70 To 431.8 %



80

Incident Energy (eV)

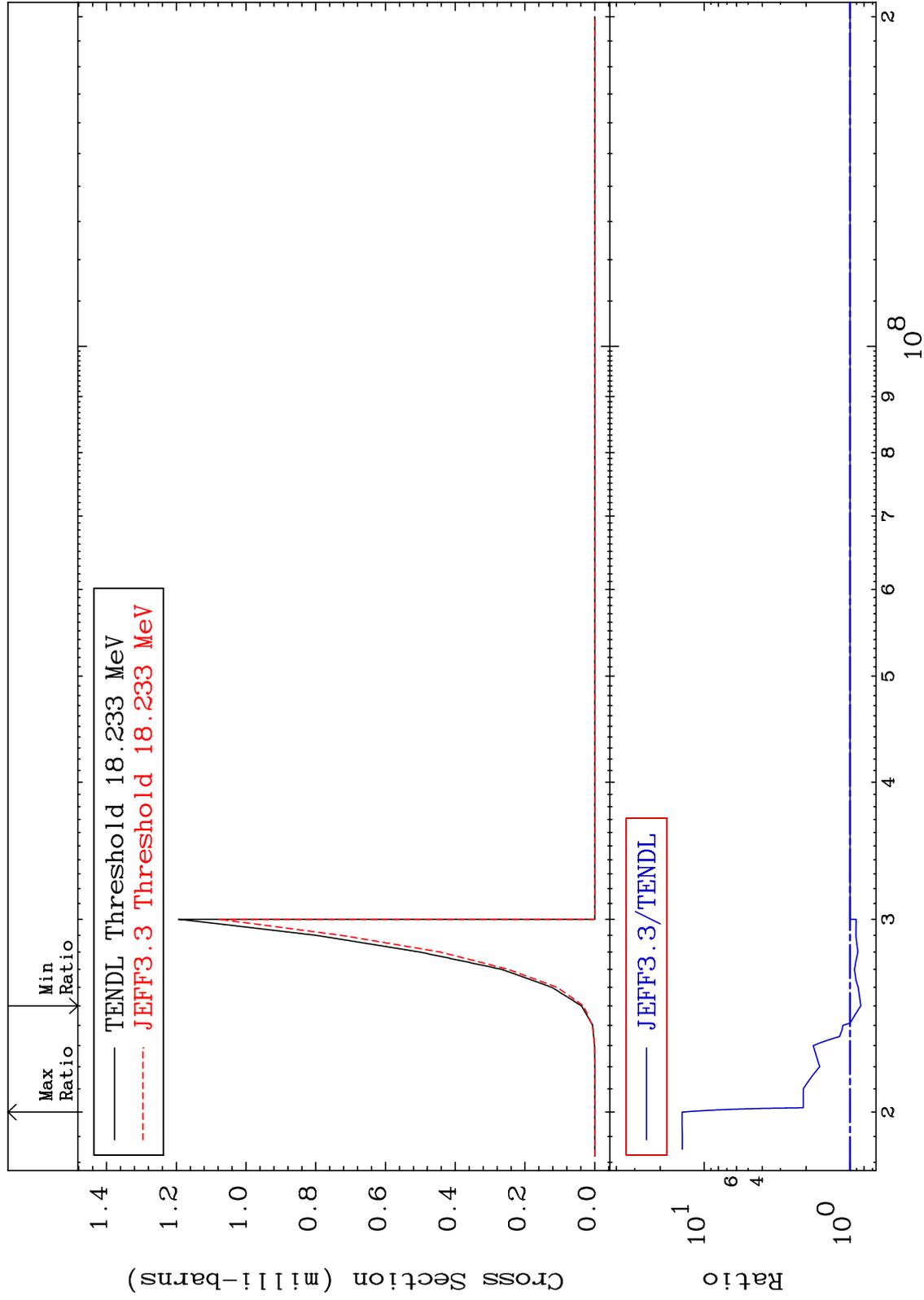
50-Sn-124

MAT 5061

(n, n') d:49-In-122m5

50-Sn-124

Radionuclide Production Cross Section -15.76 To 1316. %

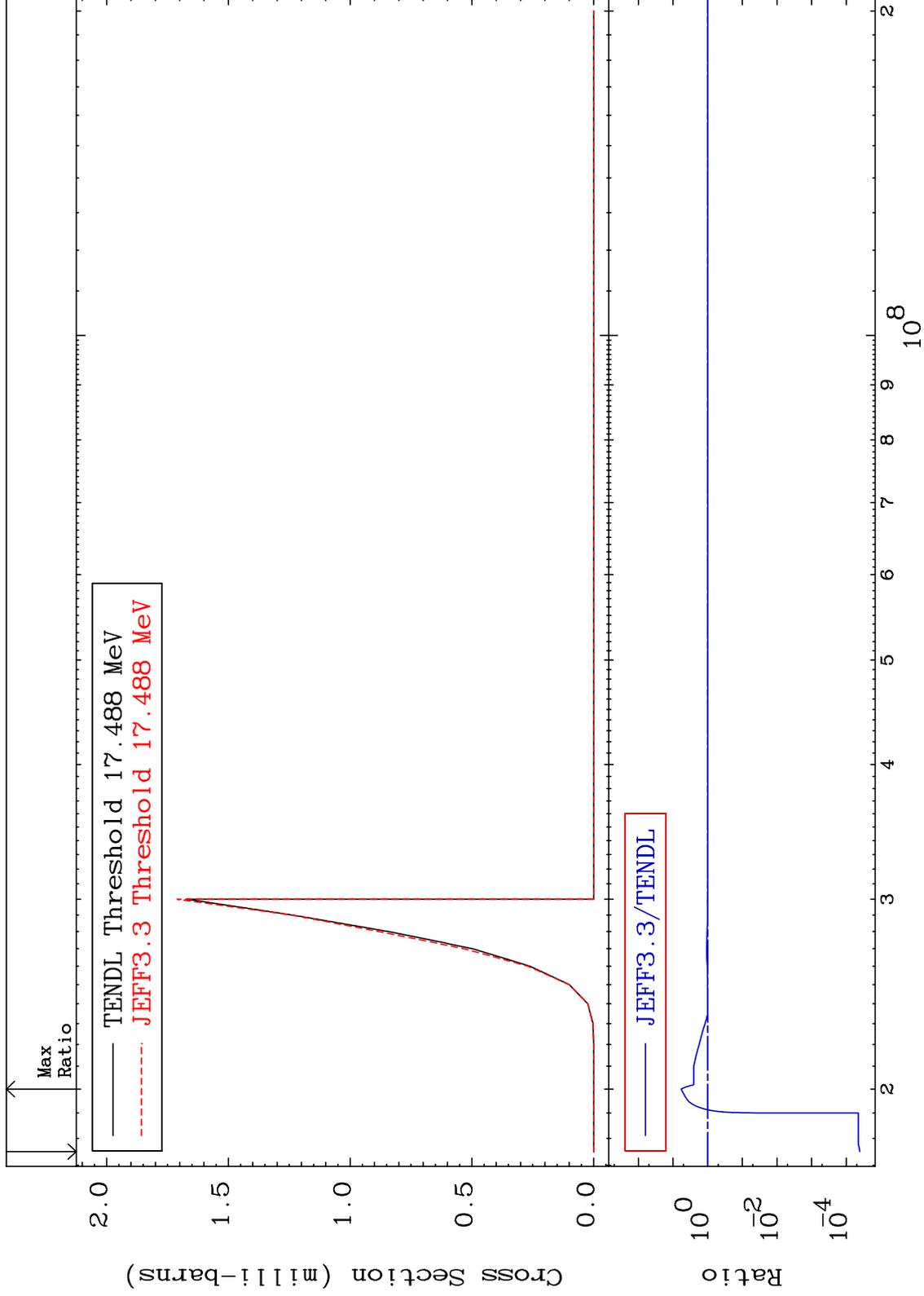


MAT 5061

(n, n') t:49-In-121g

50-Sn-124

Radionuclide Production Cross Section -100.0 To 484.3 %

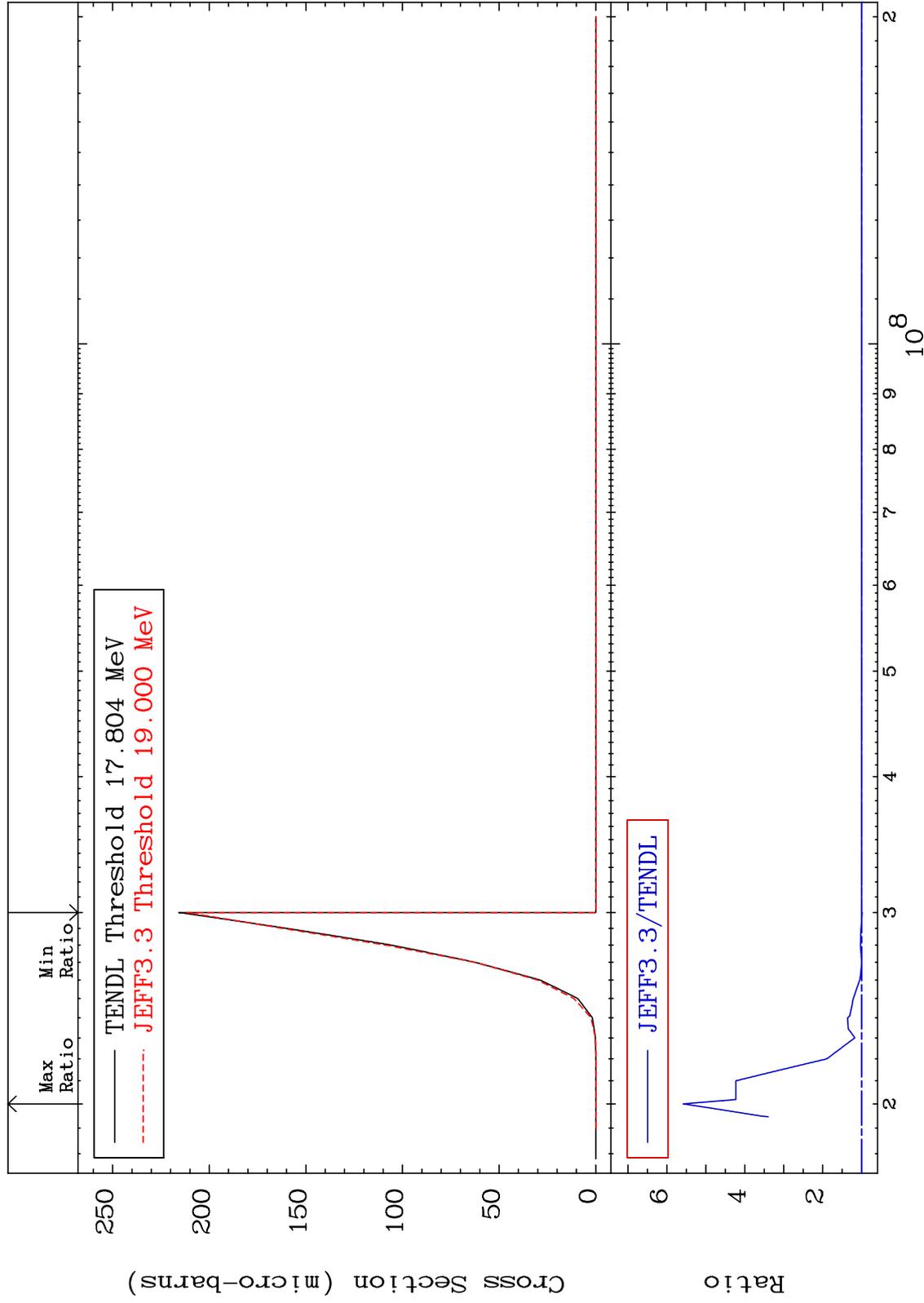


MAT 5061

(n, n') t: 49-In-121m1

50-Sn-124

Radionuclide Production Cross Section -1.781 To 457.6 %

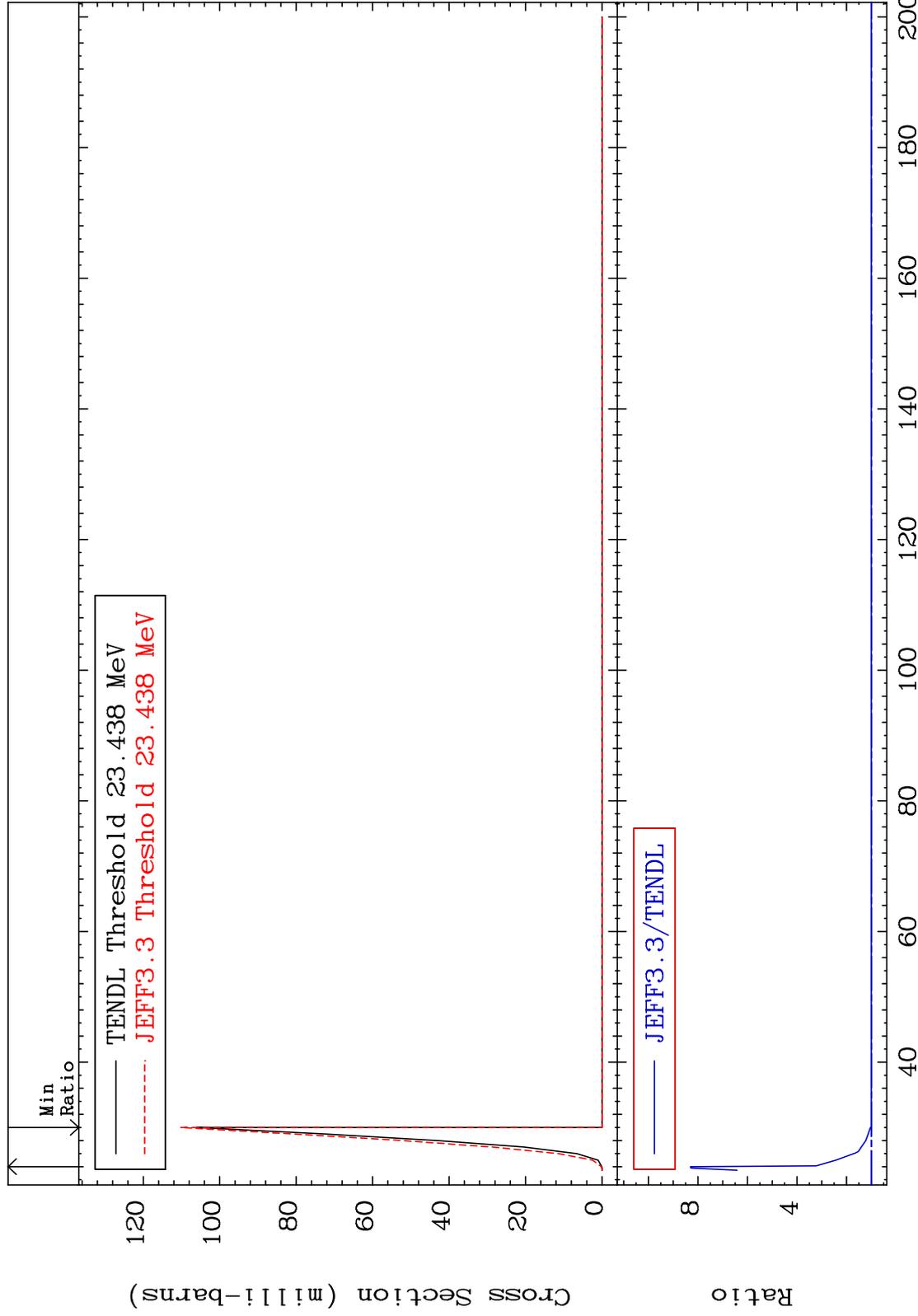


MAT 5061

(n,4n):50-Sn-121g

50-Sn-124

Radionuclide Production Cross Section 0.000 To 730.0 %

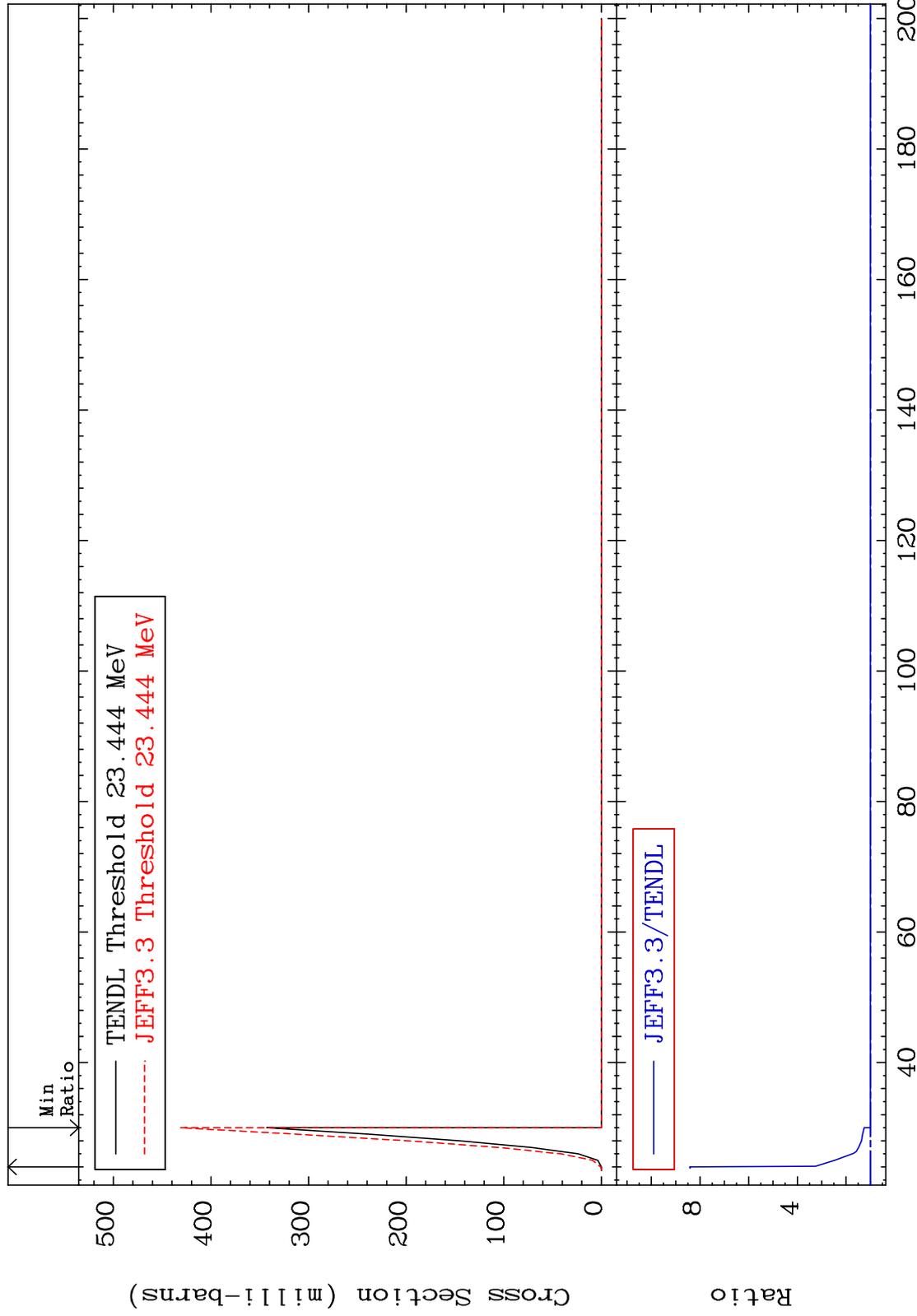


MAT 5061

(n, 4n):50-Sn-121m1

50-Sn-124

Radionuclide Production Cross Section 0.000 To 742.1 %



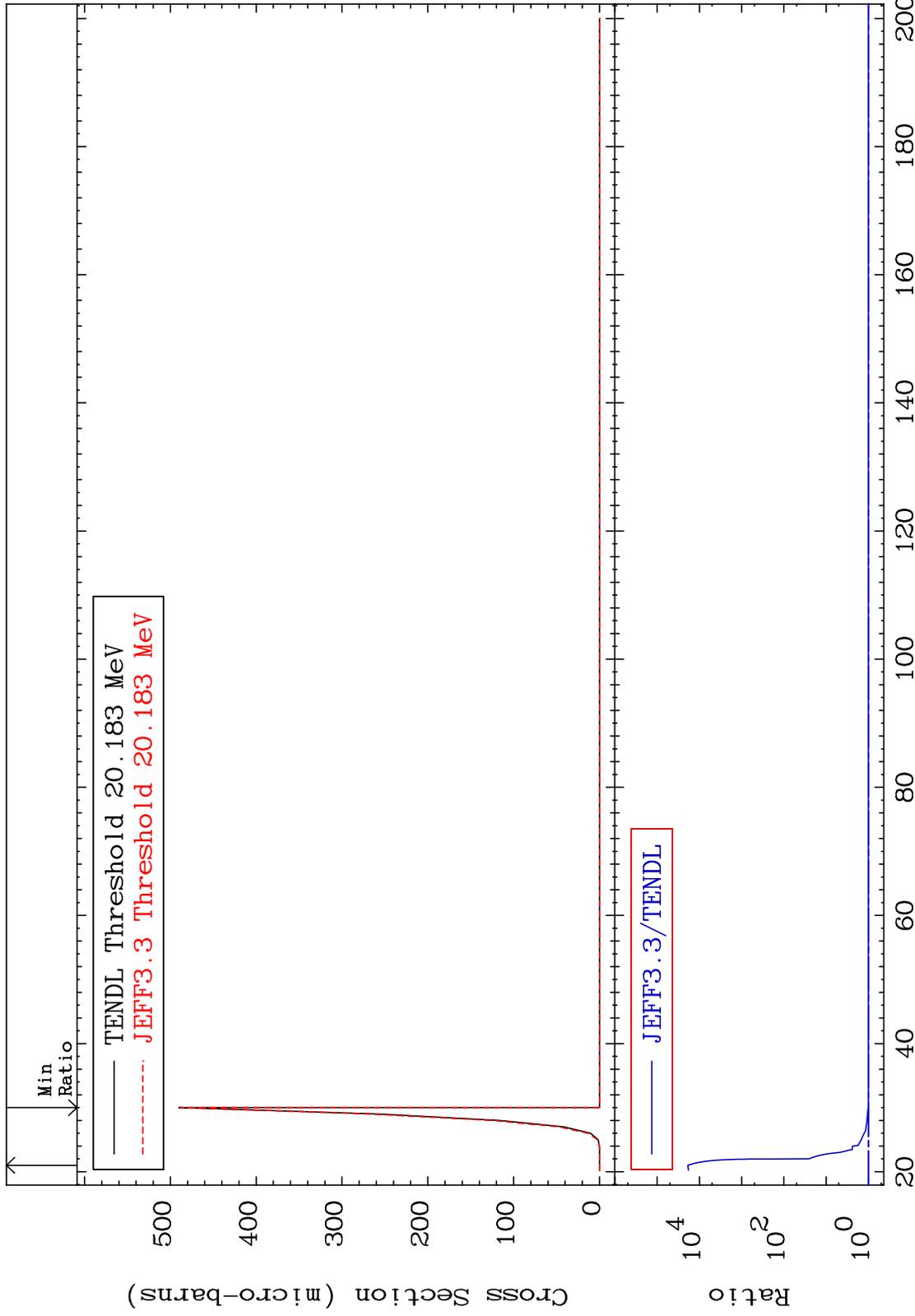
85

Incident Energy (MeV)

50-Sn-124

MAT 5061

(n,2n) p:49-In-122g 50-Sn-124  
Radionuclide Production Cross Section -0.319 To 9999. %

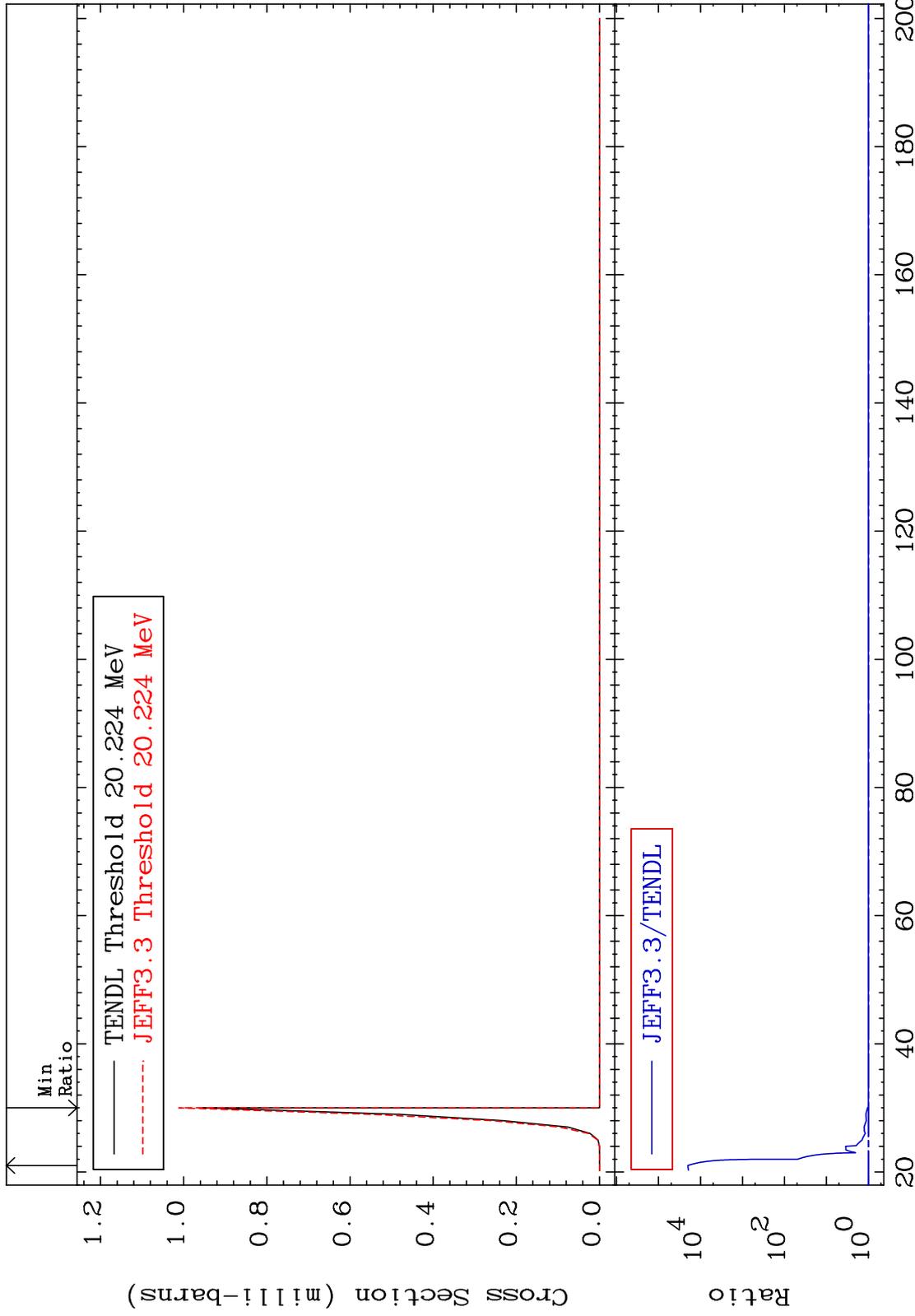


MAT 5061

(n,2n) p:49-In-122m1

50-Sn-124

Radionuclide Production Cross Section 0.000 To 9999. %



87

Incident Energy (MeV)

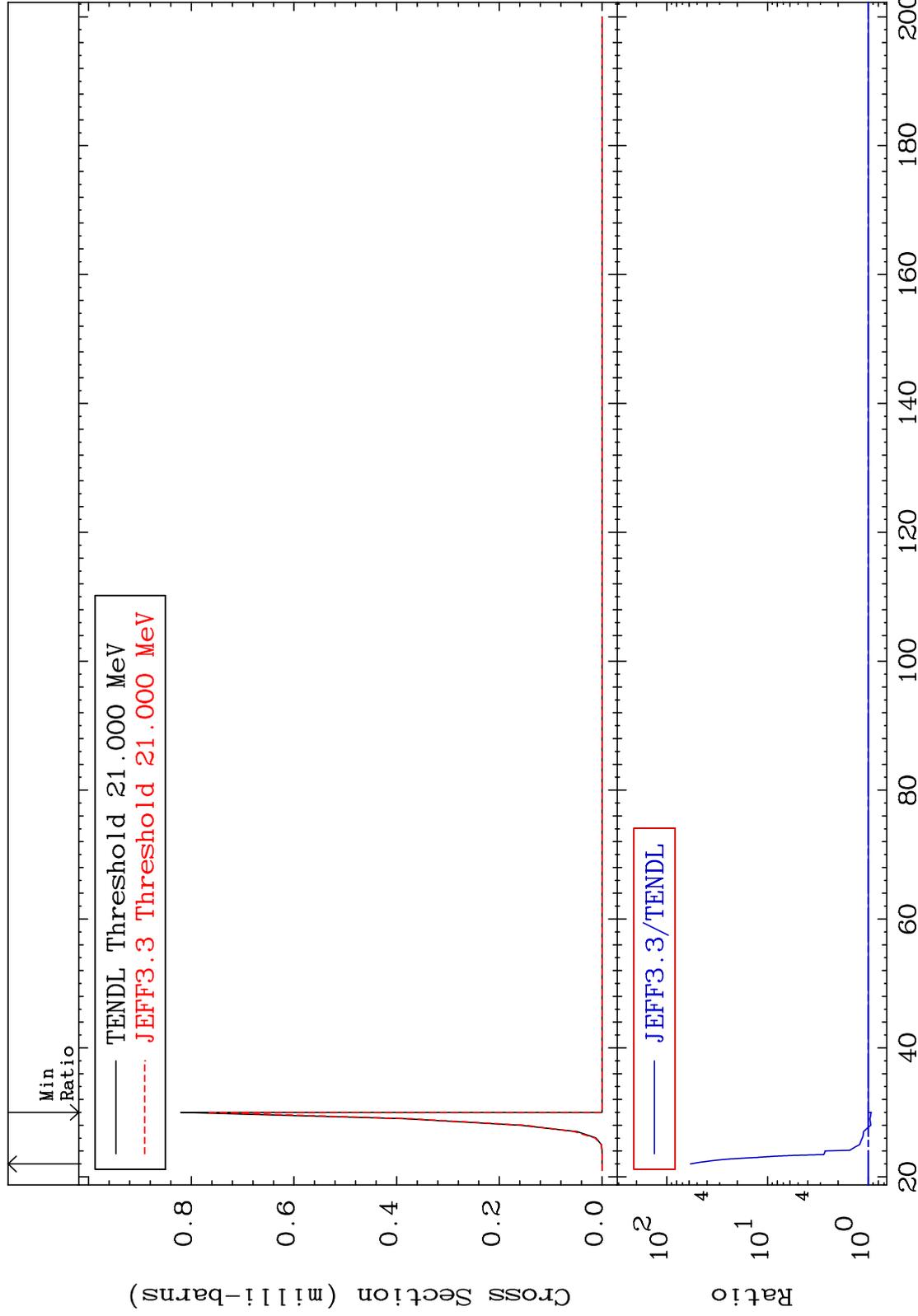
50-Sn-124

MAT 5061

(n,2n) p:49-In-122m5

50-Sn-124

Radionuclide Production Cross Section -6.245 To 5718. %

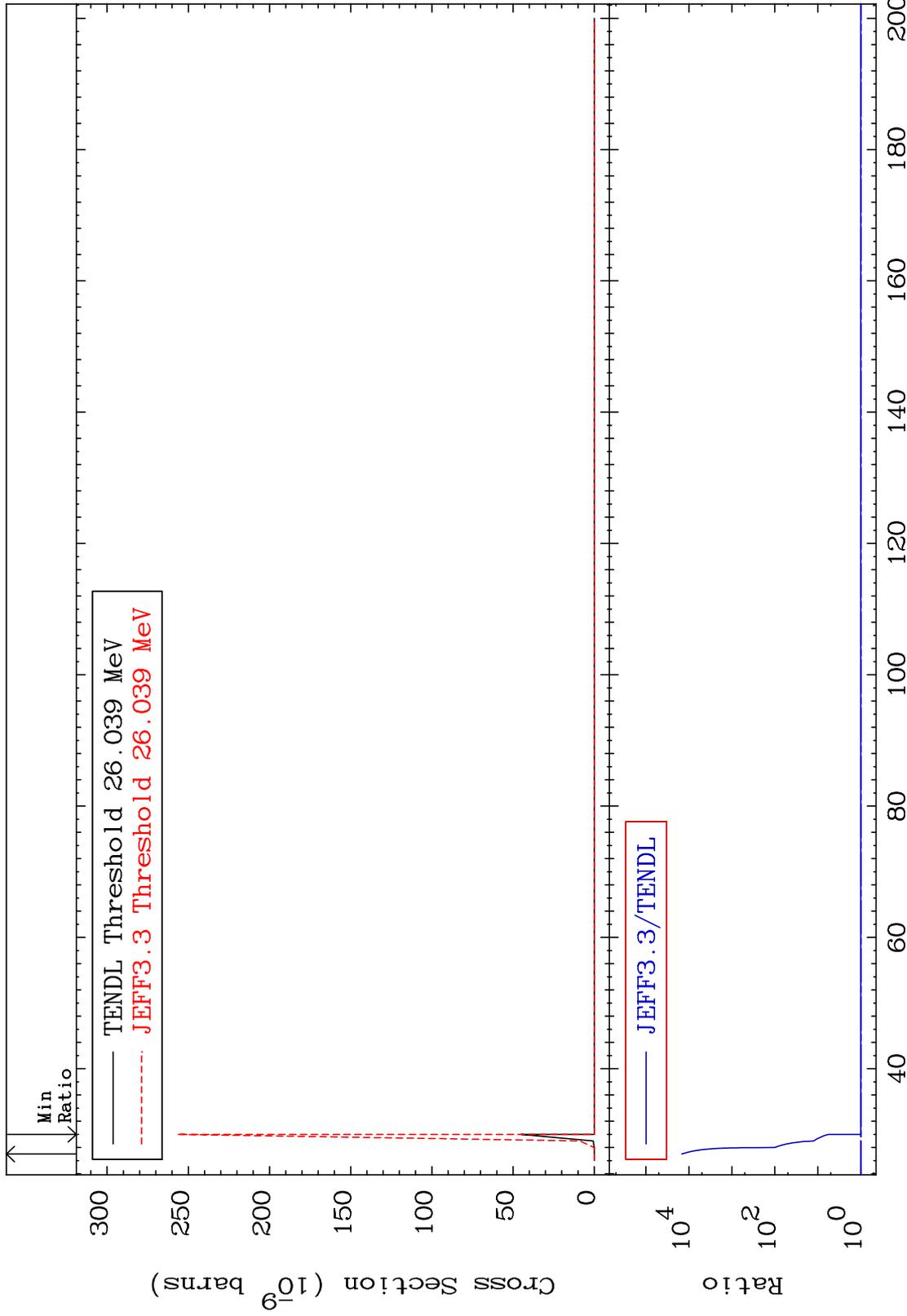


MAT 5061

(n,3n) p:49-In-121g

50-Sn-124

Radionuclide Production Cross Section 0.000 To 9999. %

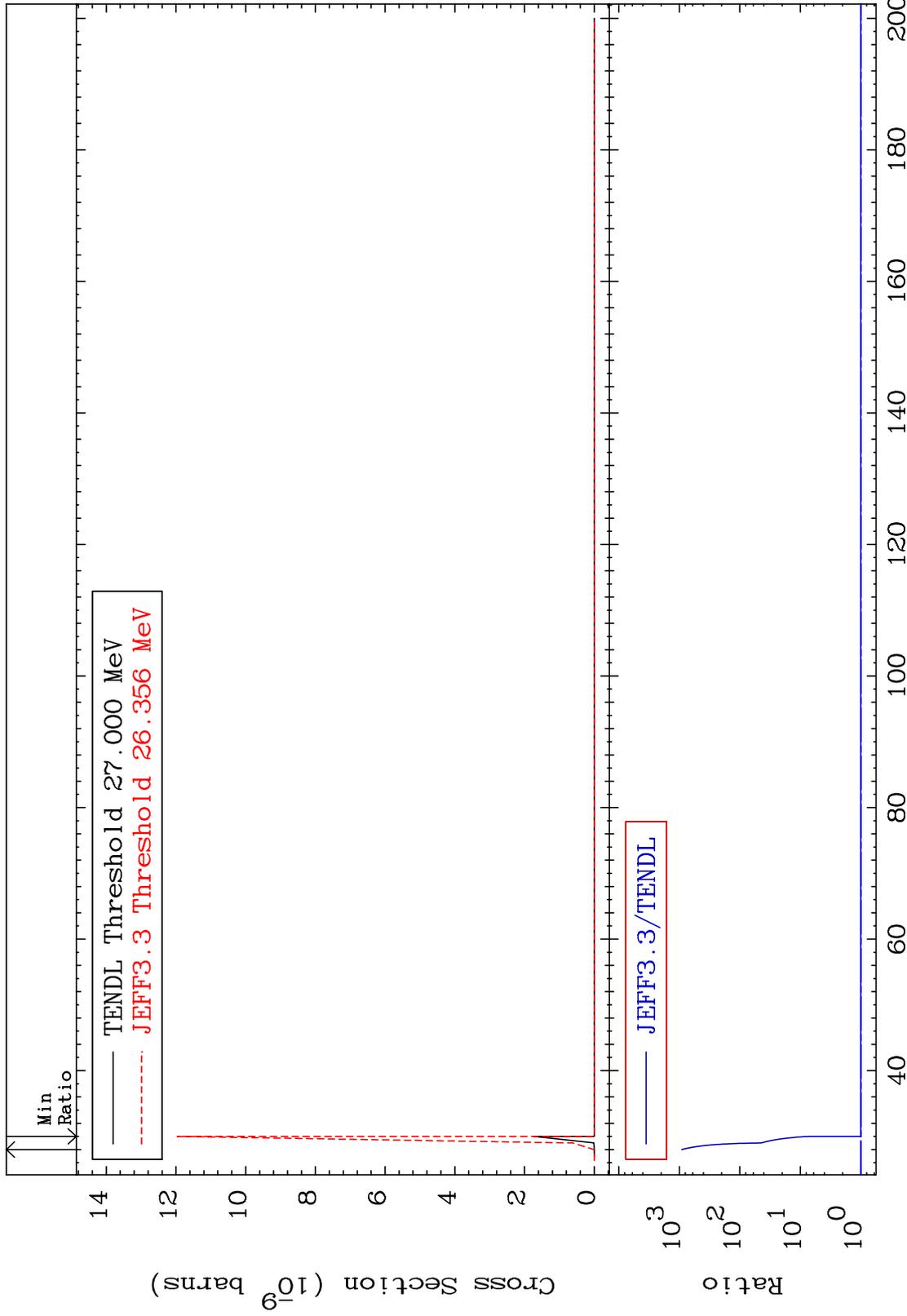


MAT 5061

(n,3n) p:49-In-121m1

50-Sn-124

Radionuclide Production Cross Section 0.000 To 9999. %



90

Incident Energy (MeV)

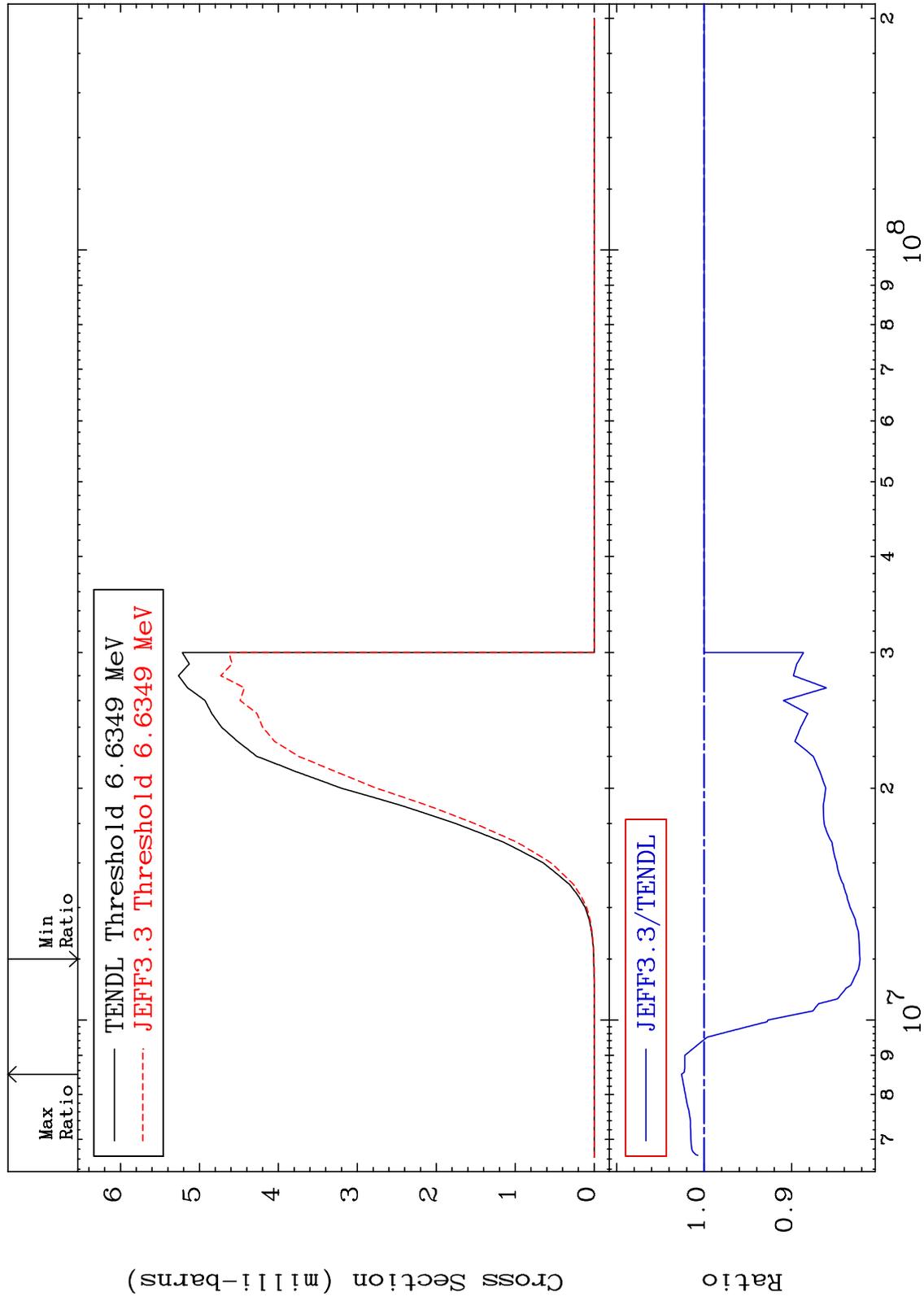
50-Sn-124

MAT 5061

(n,p): 49-In-124g

50-Sn-124

Radionuclide Production Cross Section -17.80 To 2.584 %



91

Incident Energy (eV)

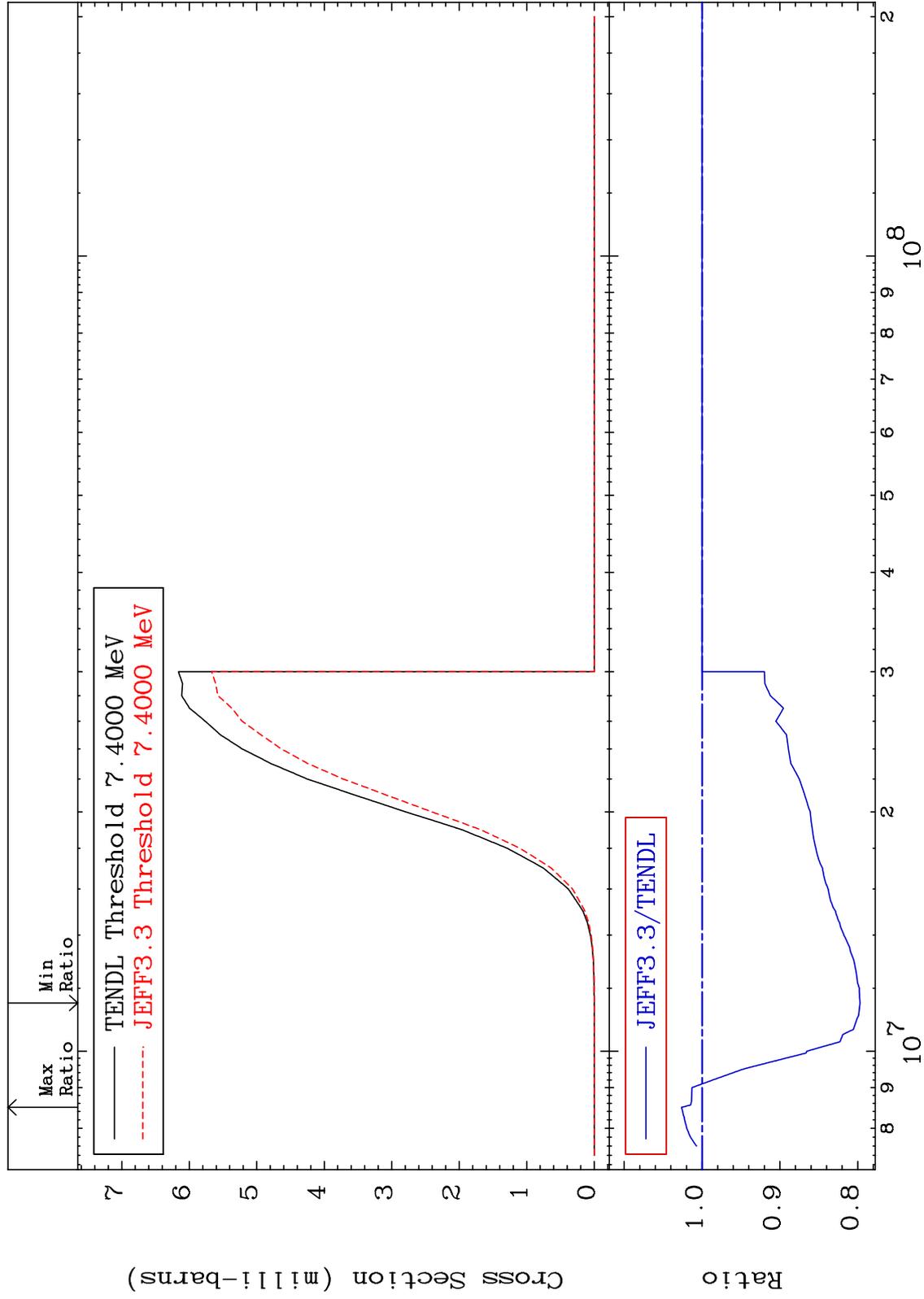
50-Sn-124

MAT 5061

(n, p) : 49-In-124m2

50-Sn-124

Radionuclide Production Cross Section -20.30 To 2.631 %



92

Incident Energy (eV)

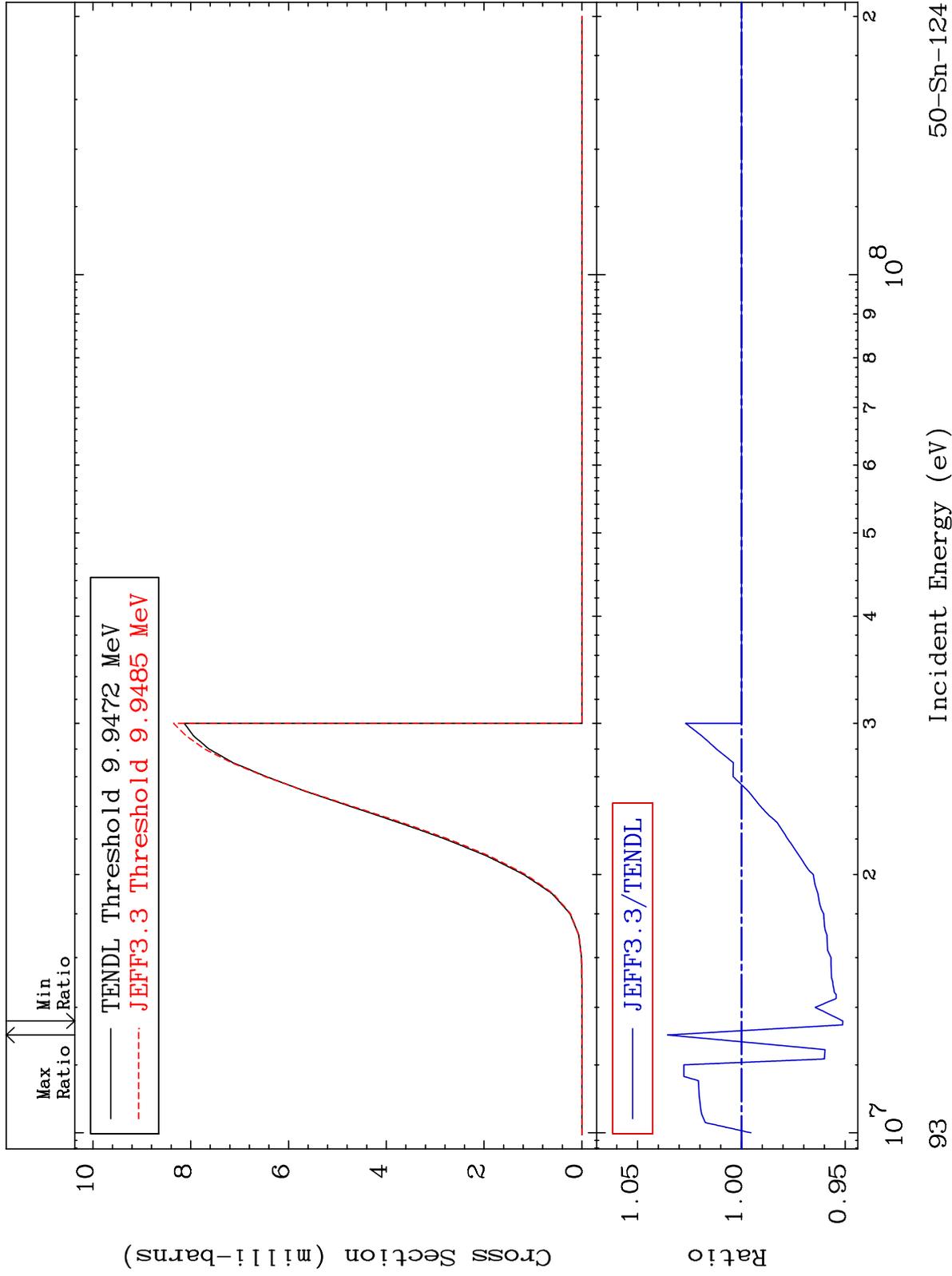
50-Sn-124

MAT 5061

(n, d) : 49-In-123g

50-Sn-124

Radionuclide Production Cross Section -4.886 To 3.556 %

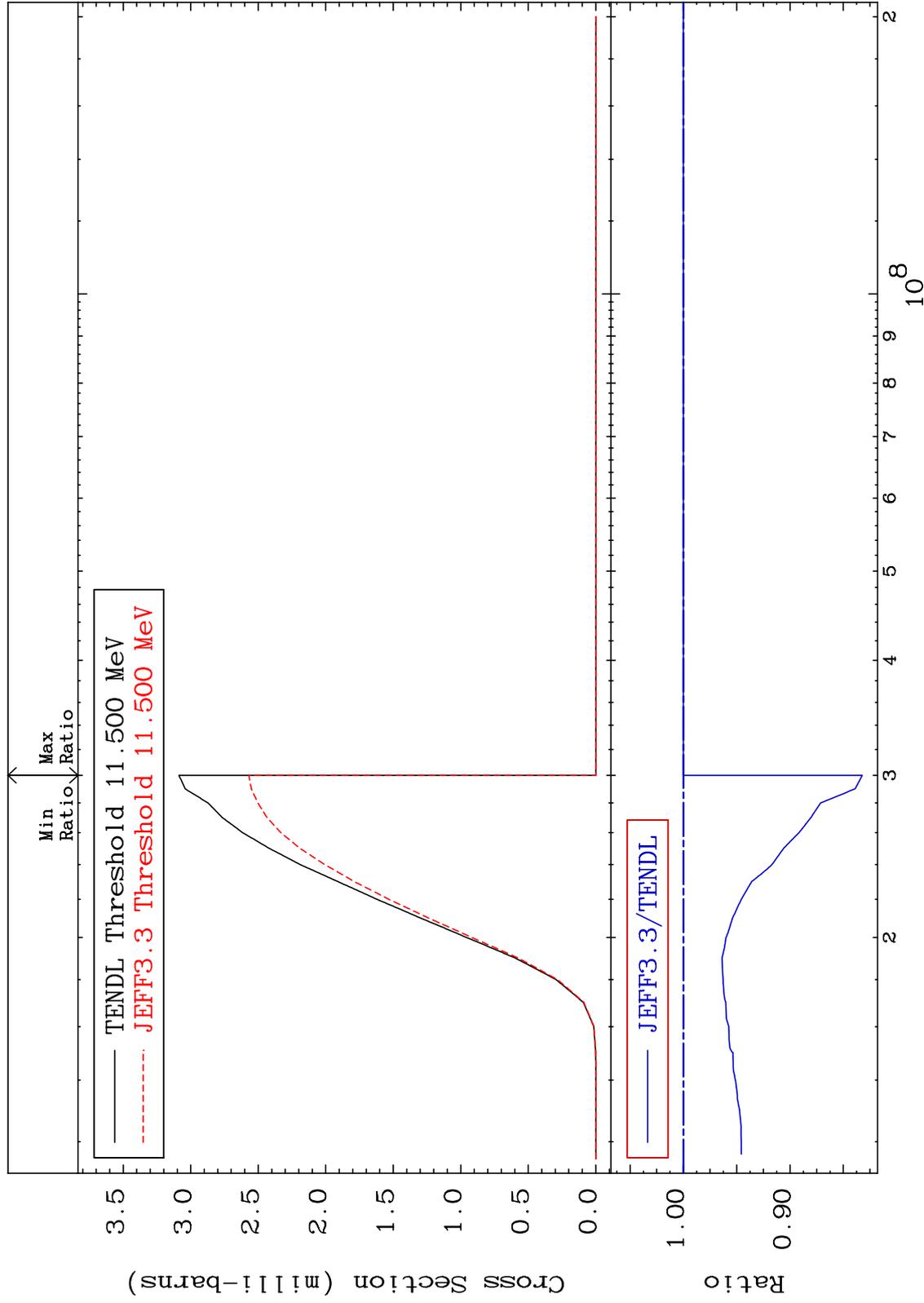


MAT 5061

(n, d) : 49-In-123m1

50-Sn-124

Radionuclide Production Cross Section -16.78 To 0.000 %

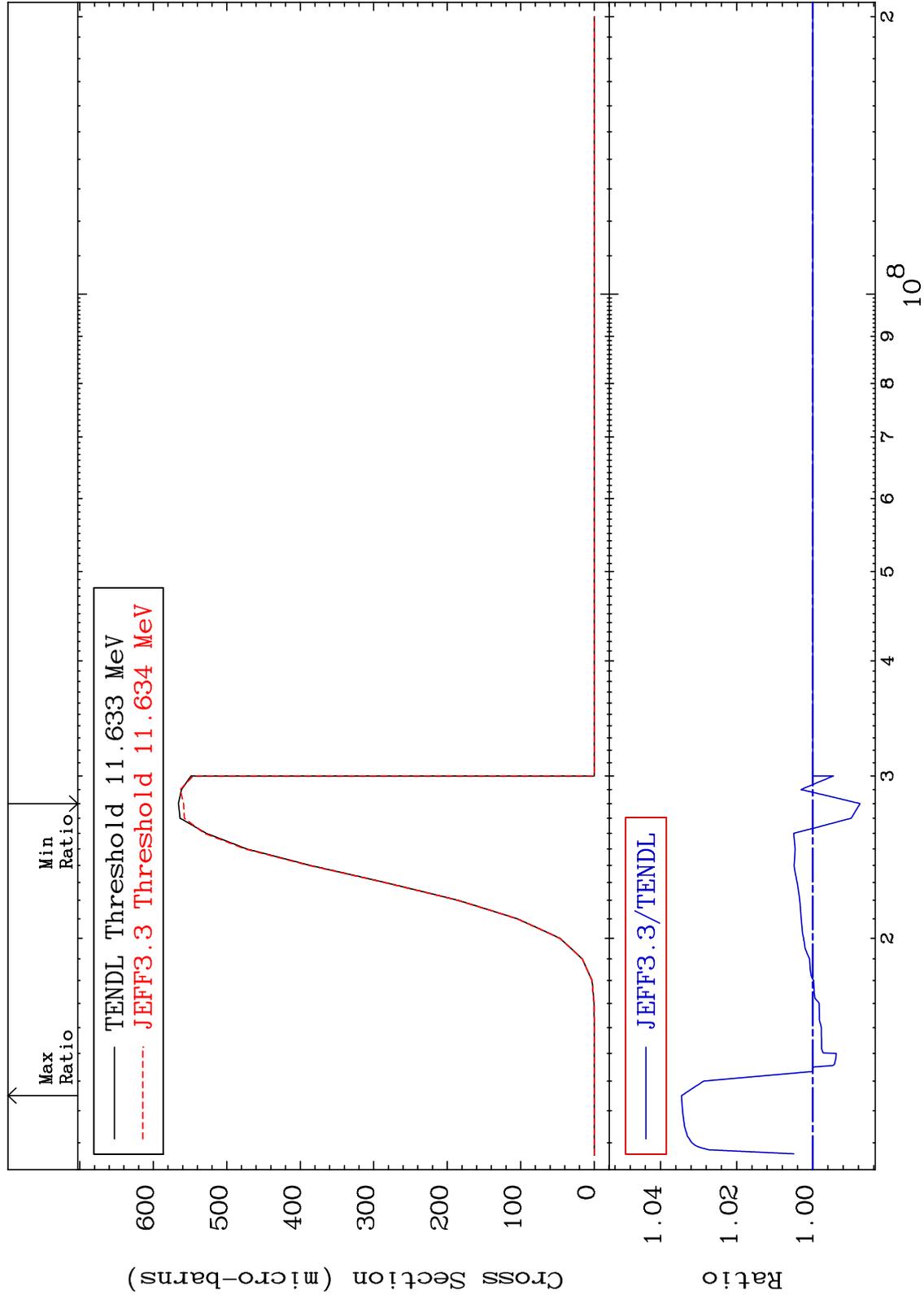


MAT 5061

(n, t): 49-In-122g

50-Sn-124

Radionuclide Production Cross Section -1.242 To 3.448 %

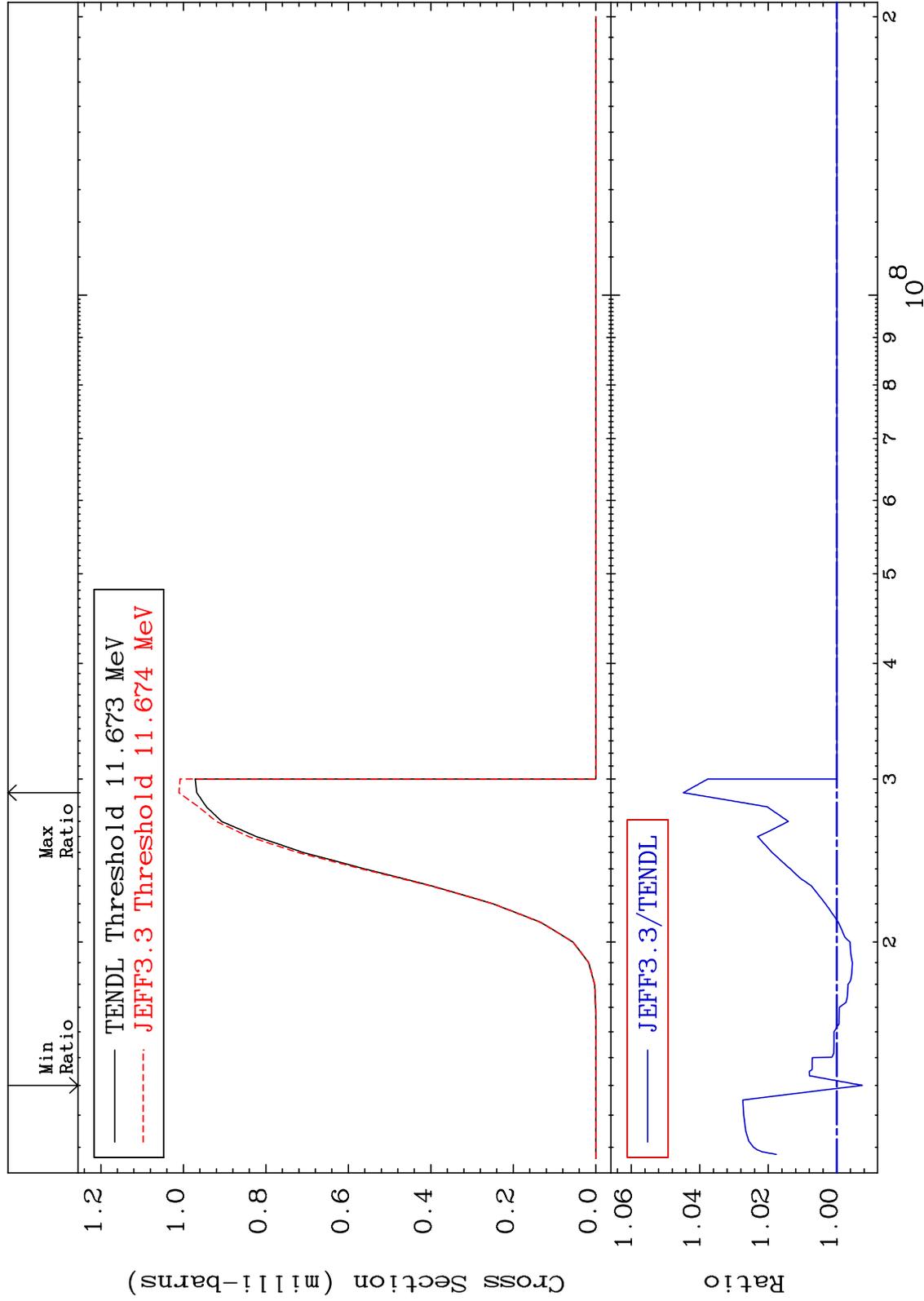


MAT 5061

(n, t) : 49-In-122m1

50-Sn-124

Radionuclide Production Cross Section -0.744 To 4.478 %

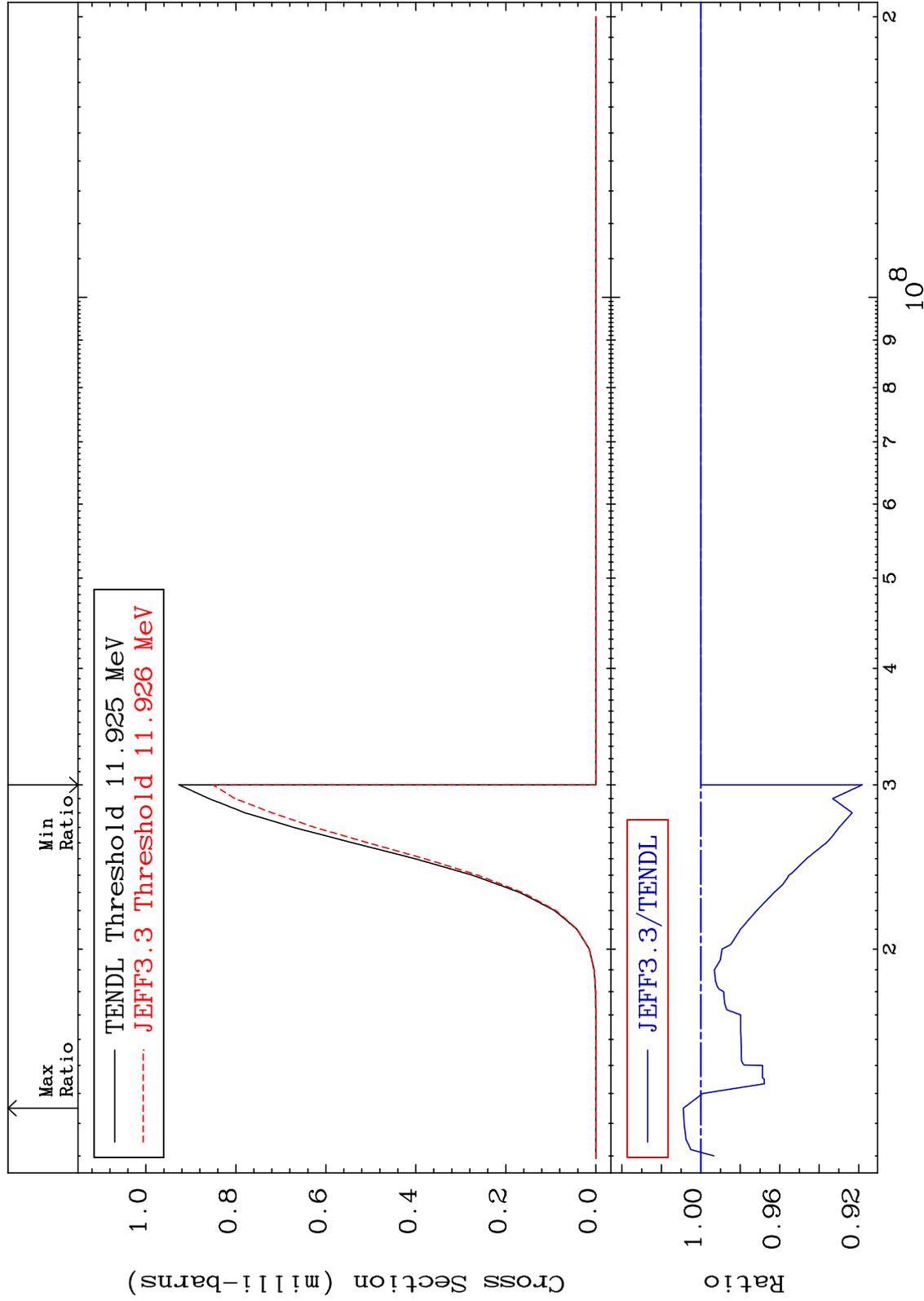


MAT 5061

(n, t) : 49-In-122m5

50-Sn-124

Radionuclide Production Cross Section -8.184 To 0.885 %

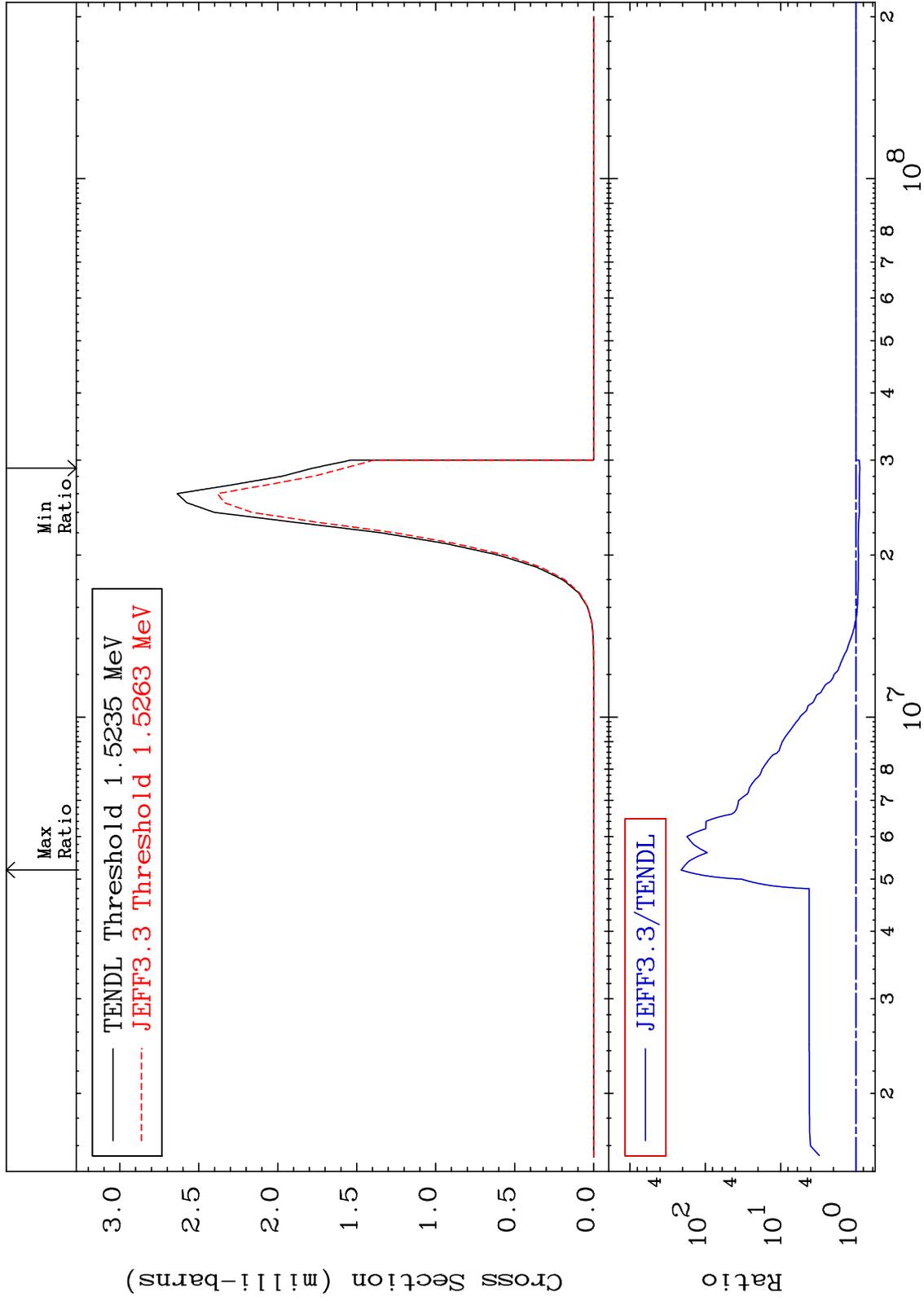


MAT 5061

(n,  $\alpha$ ): 48-Cd-121g

50-Sn-124

Radionuclide Production Cross Section -11.28 To 9999. %



98

50-Sn-124

MAT 5061

(n,  $\alpha$ ): 48-Cd-121m2

50-Sn-124

Radionuclide Production Cross Section -7.369 To 9999. %

