

Program Complot  
(Version 2018-1)

by

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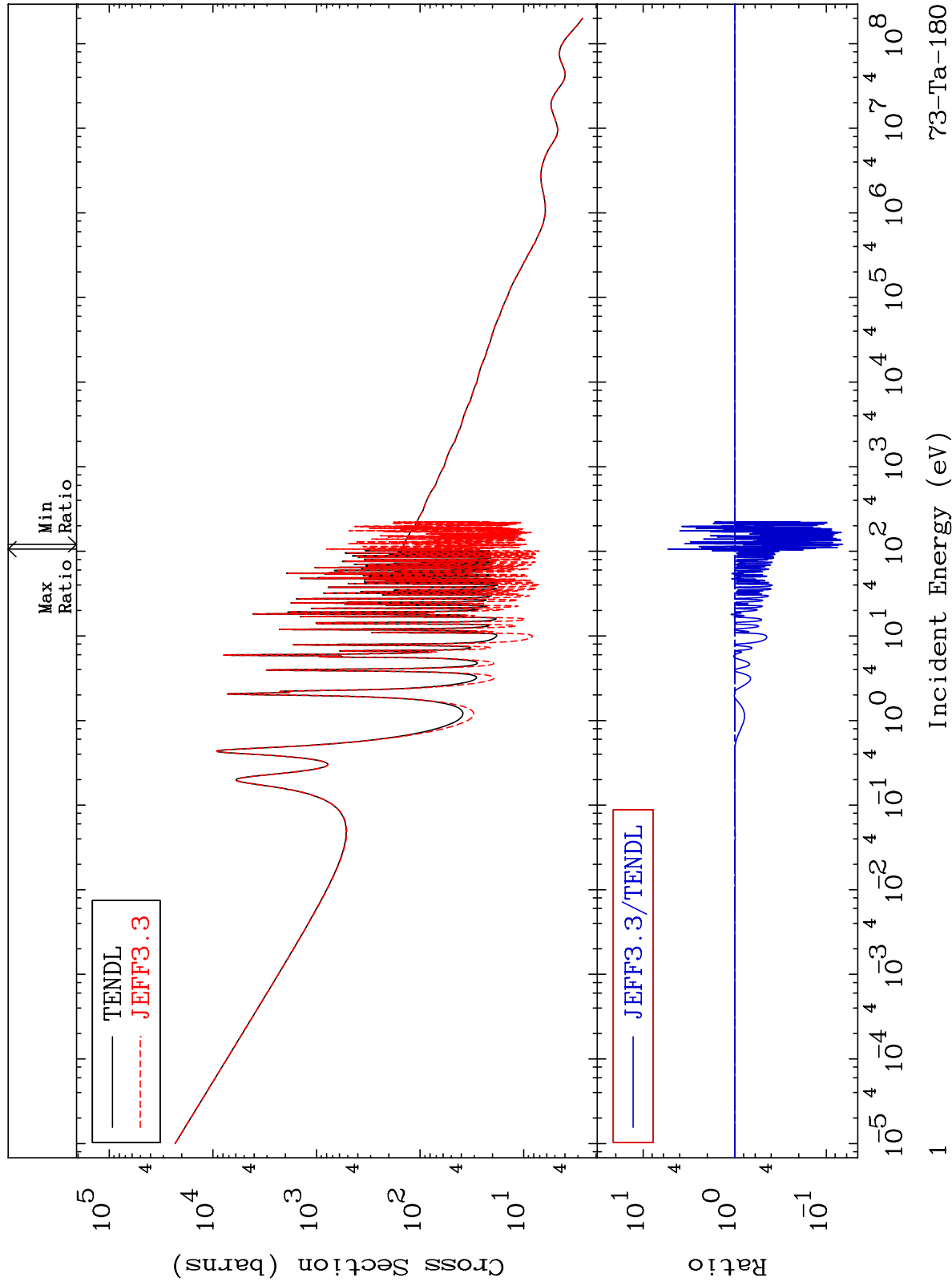
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7326

Total  
Cross Section

<sup>73</sup>Ta-180  
-93.41 To 436.3 %

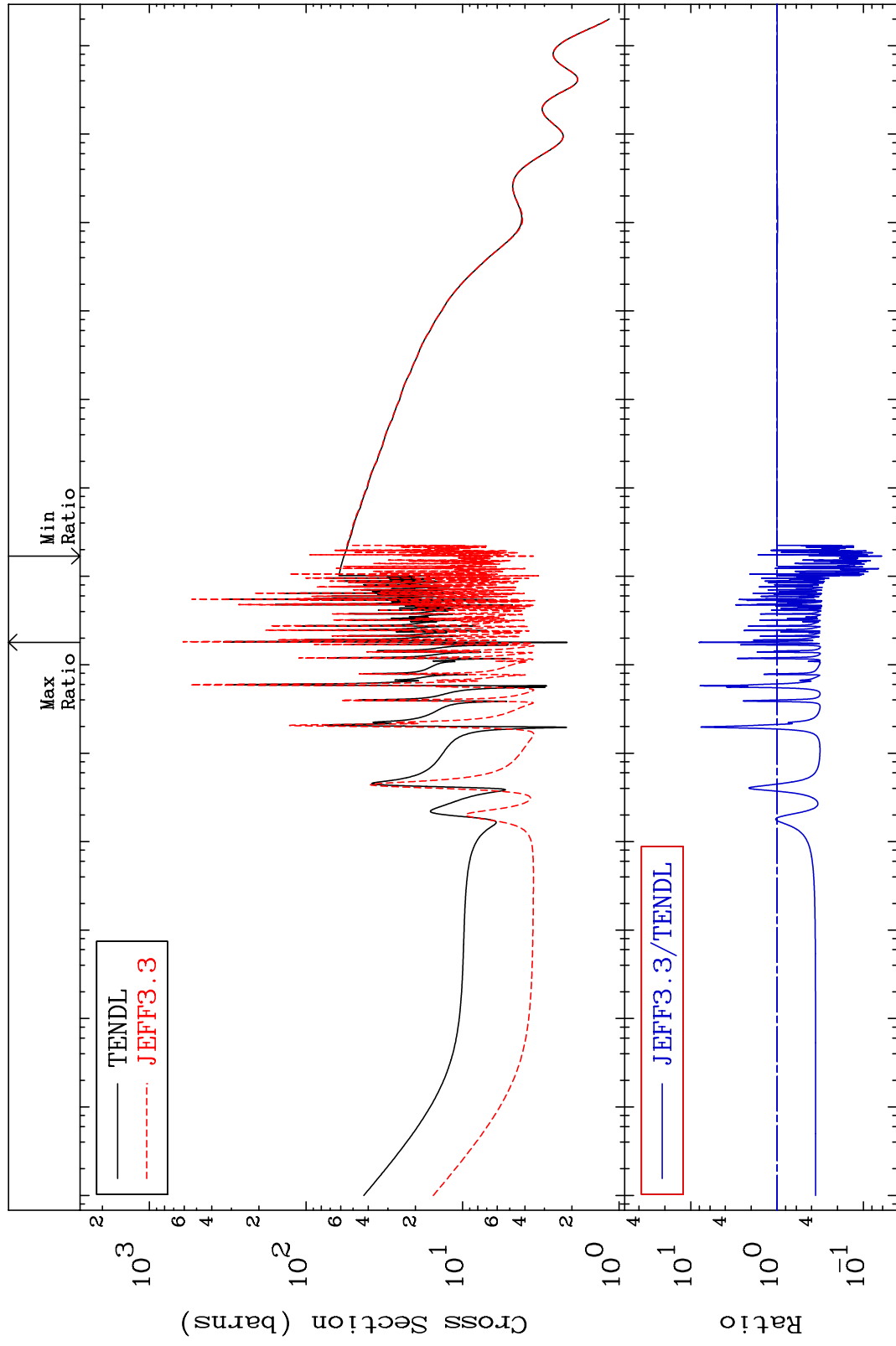


<sup>73</sup>Ta-180

MAT 7326

Elastic  
Cross Section

<sup>73</sup>Ta-180  
-93.82 To 711.5 %



2

Incident Energy (eV)

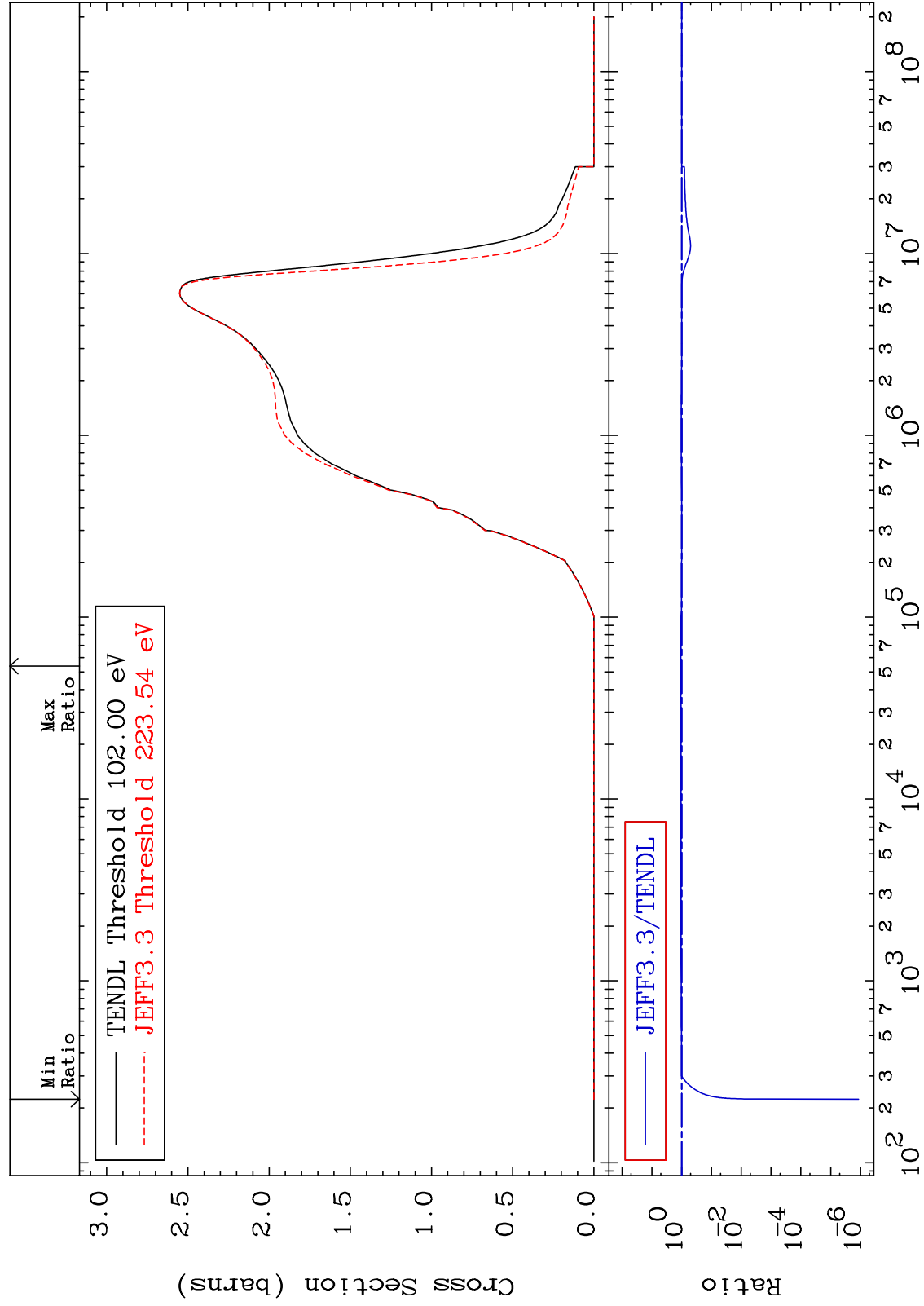
<sup>73</sup>Ta-180

MAT 7326

Inelastic  
Cross Section

<sup>73</sup>Ta-180

-100.0 To 6.790 %

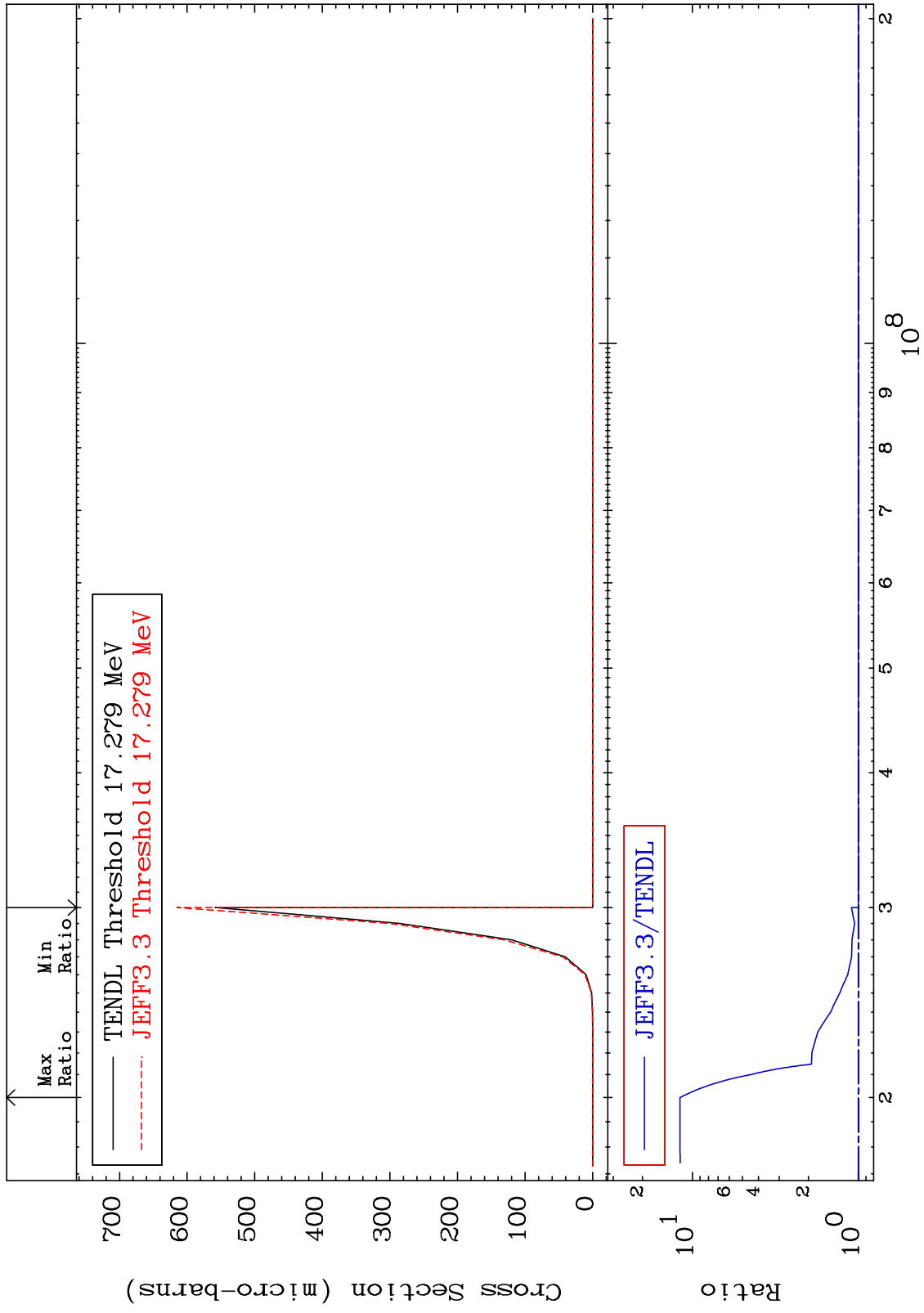


Incident Energy (eV)

<sup>73</sup>Ta-180

3

MAT 7326 (n,2n) d 73-Ta-180  
 Cross Section 0.000 To 1089. %



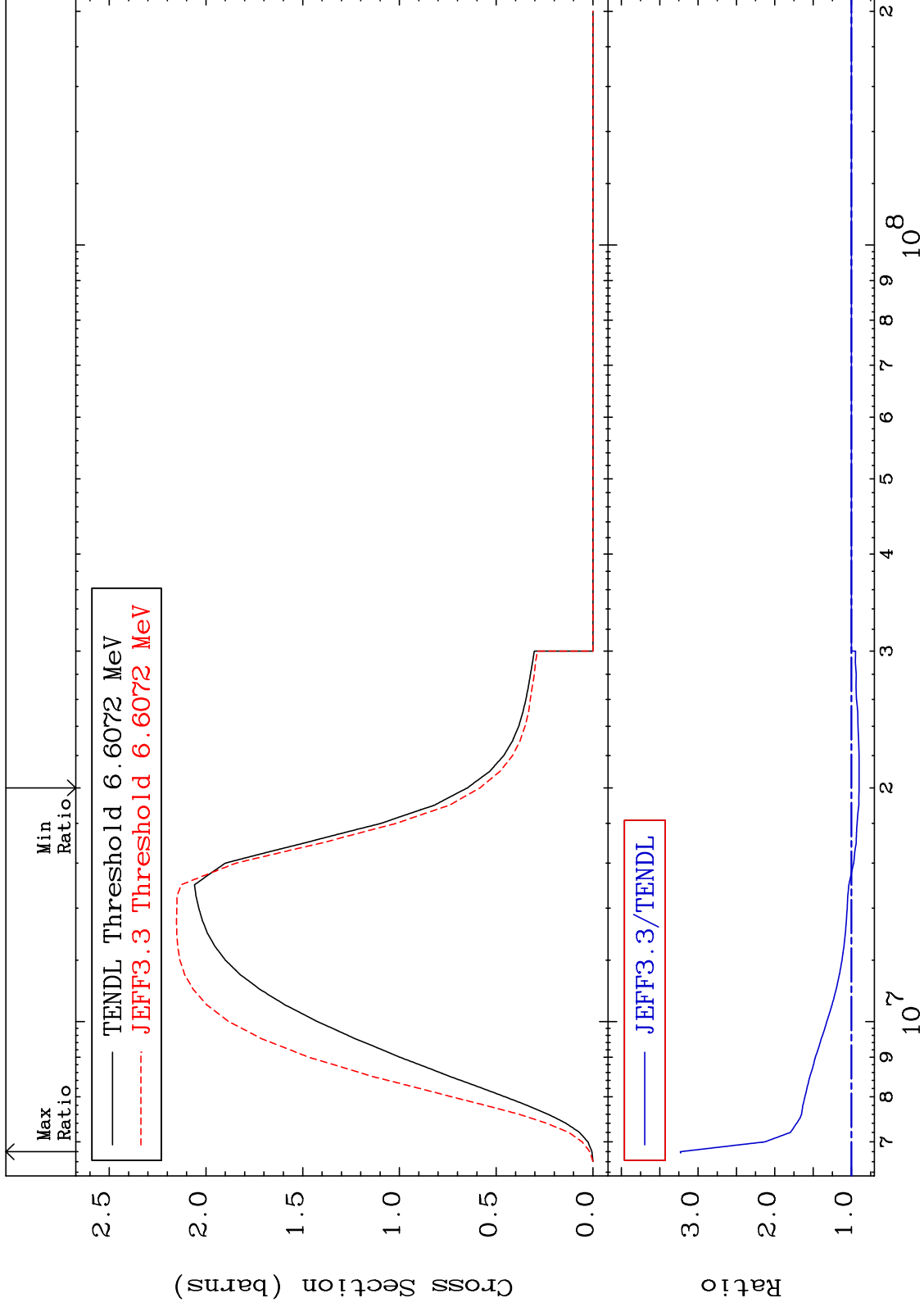
MAT 7326

(n,2n)

<sup>73</sup>Ta-180

Cross Section

-9.955 To 223.0 %



5

Incident Energy (eV)

<sup>73</sup>Ta-180

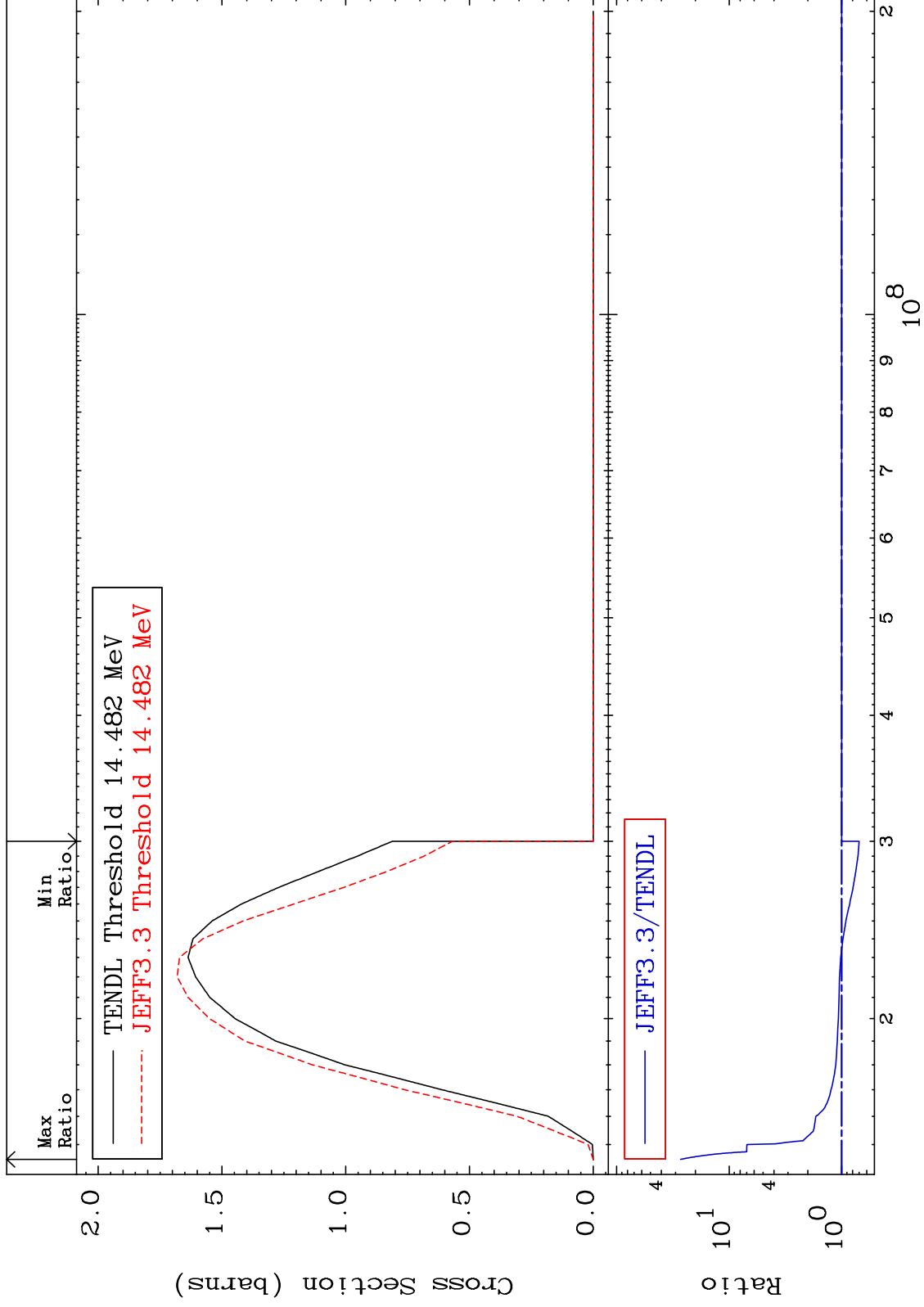
MAT 7326

(n, 3n)

<sup>73</sup>Ta-180

Cross Section

-29.97 To 2601. %



Incident Energy (eV)

<sup>73</sup>Ta-180

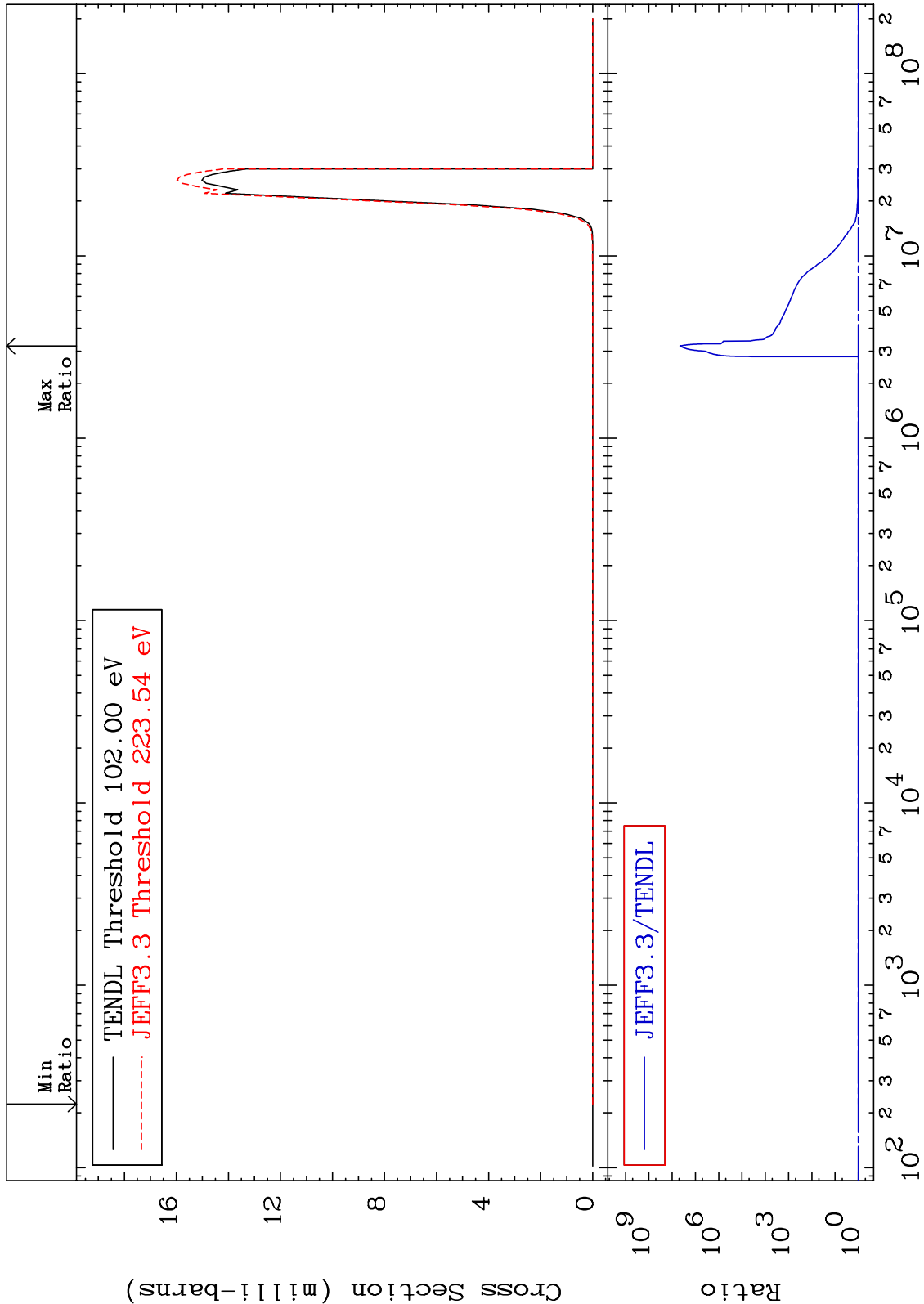
MAT 7326

(n, n')  $\alpha$

<sup>73</sup>Ta-180

Cross Section

0.000 To 9999. %



Incident Energy (eV)

<sup>73</sup>Ta-180



MAT 7326

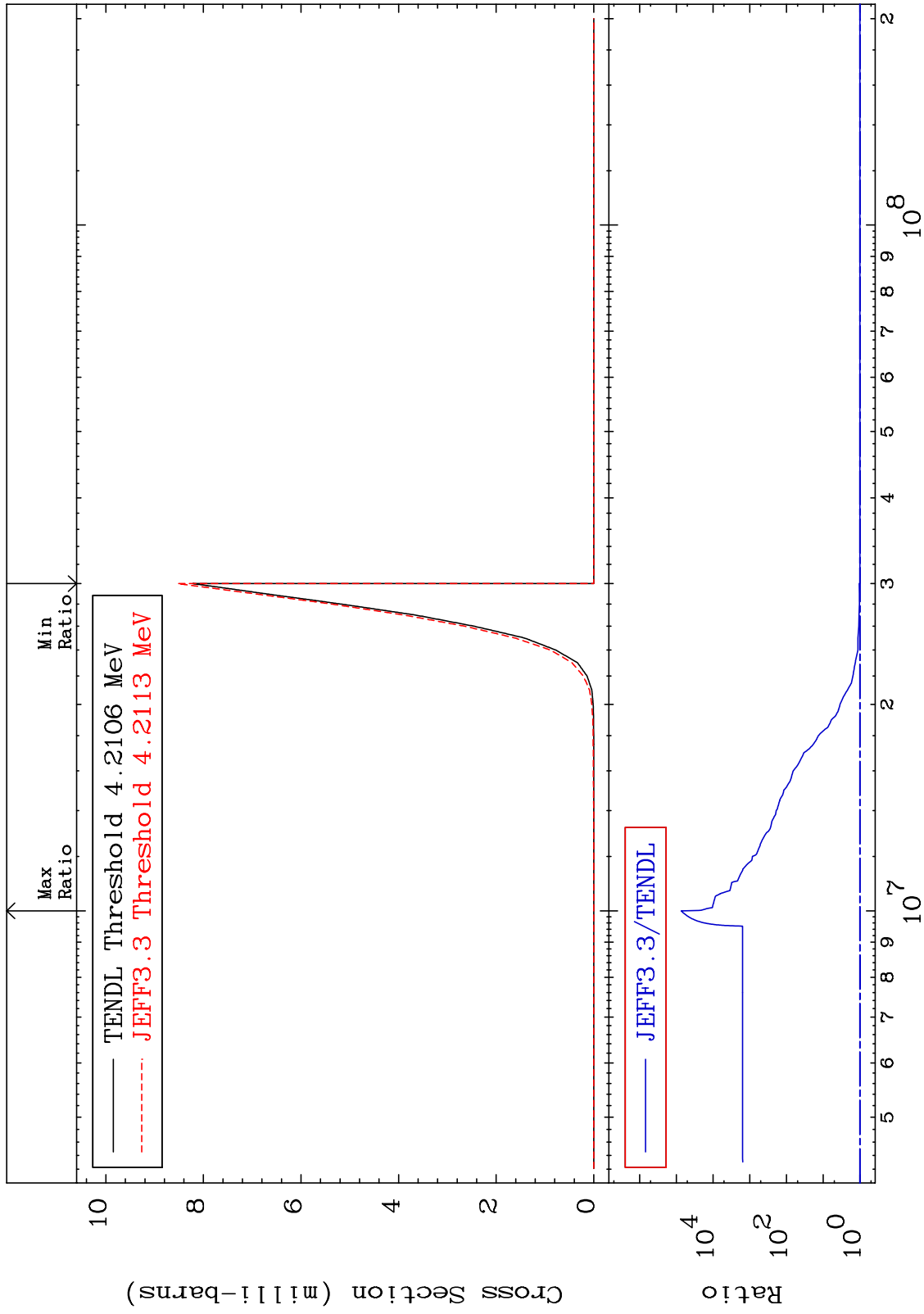
(n,2n)  $\alpha$

<sup>73</sup>Ta-180

Cross Section

Cross Section

0.000 To 9999. %



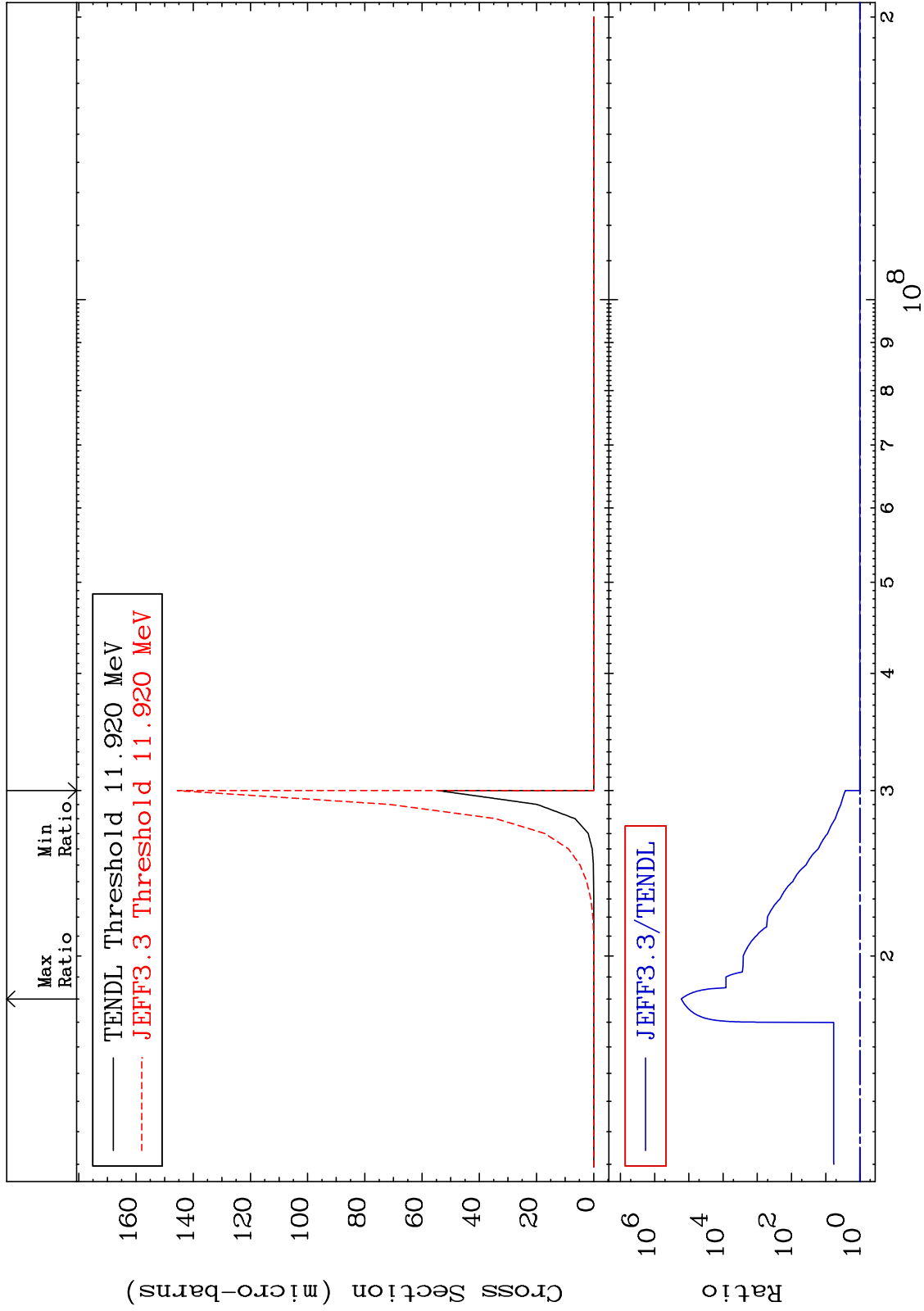
MAT 7326

(n, 3n)  $\alpha$

<sup>73</sup>Ta-180

Cross Section

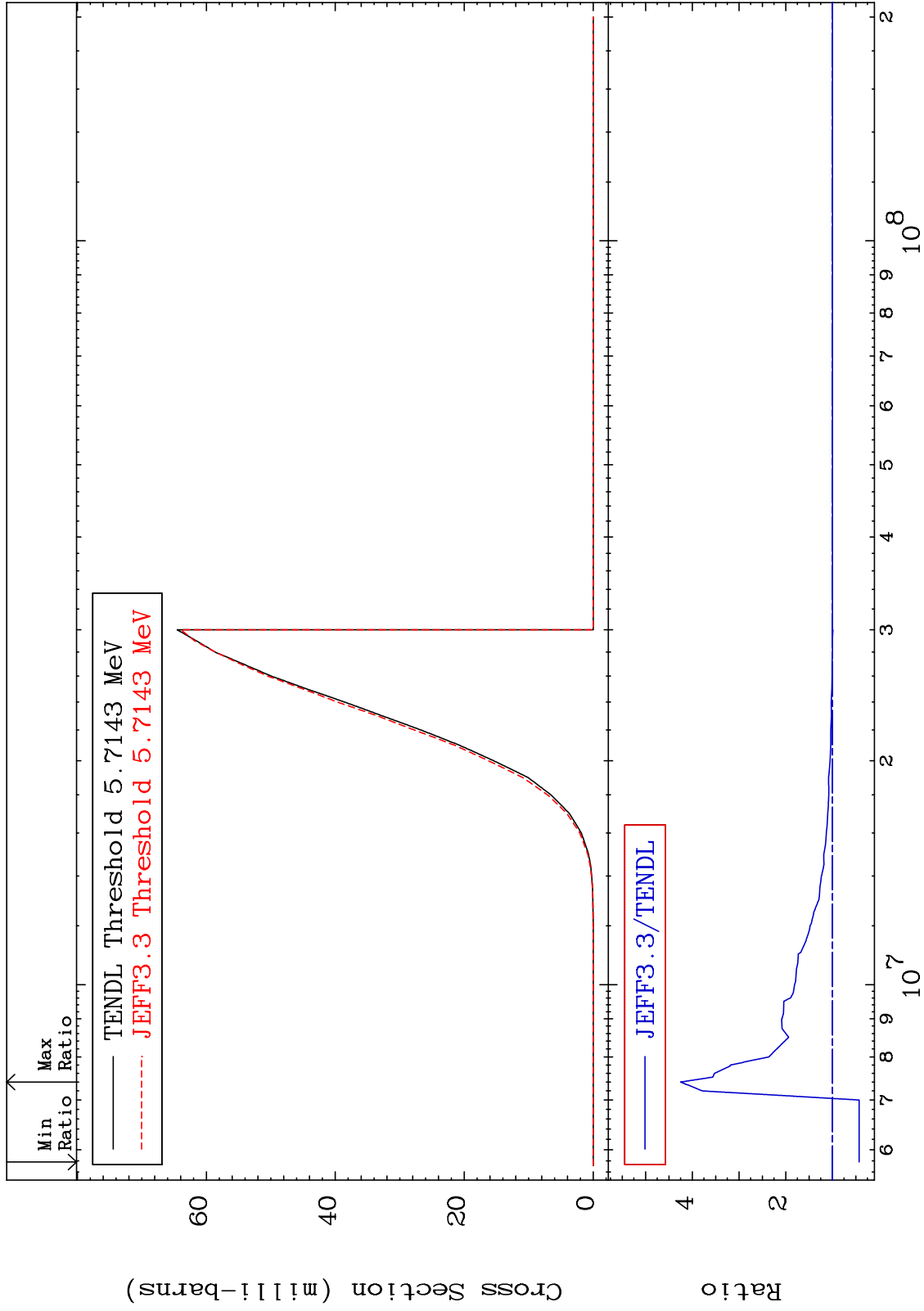
0.000 To 9999. %



MAT 7326

(n,n') p  
Cross Section

<sup>73</sup>Ta-180  
-57.12 To 325.0 %



10

Incident Energy (eV)

<sup>73</sup>Ta-180

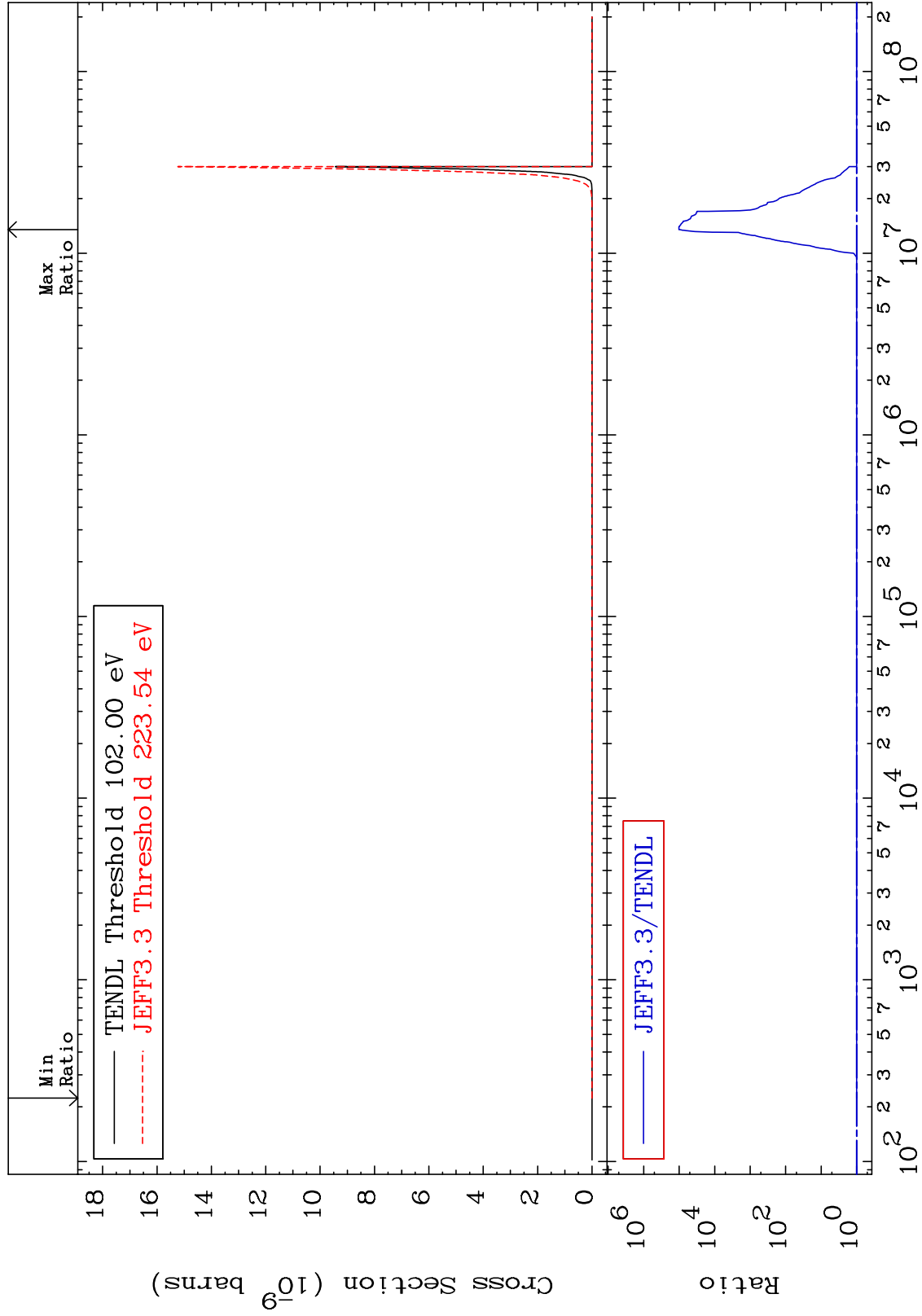
MAT 7326

(n,n')  $2\alpha$

Cross Section

$^{73}\text{Ta-180}$

0.000 To 9999. %



MAT 7326

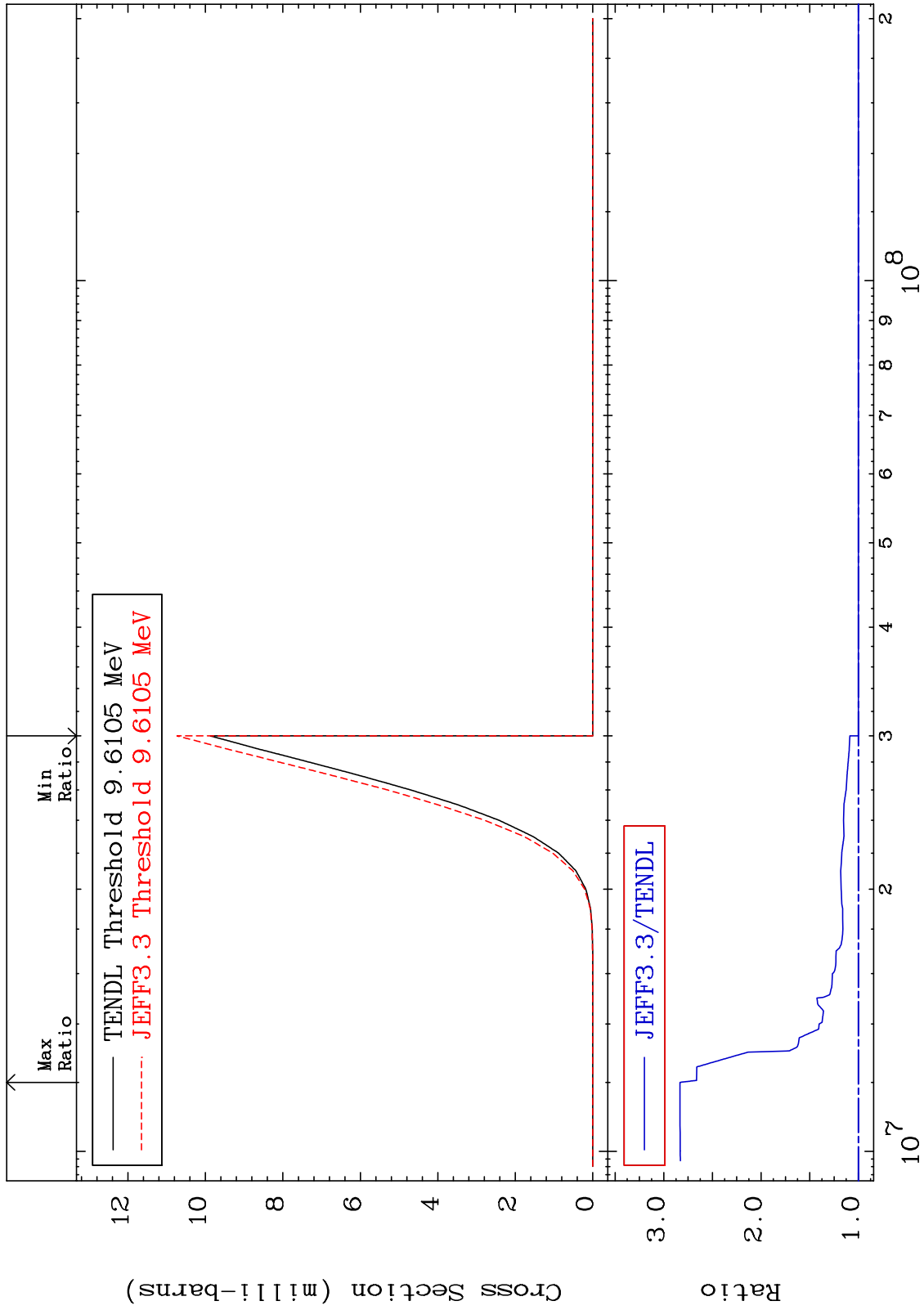
(n, n') d

<sup>73</sup>Ta-180

Cross Section

0.000

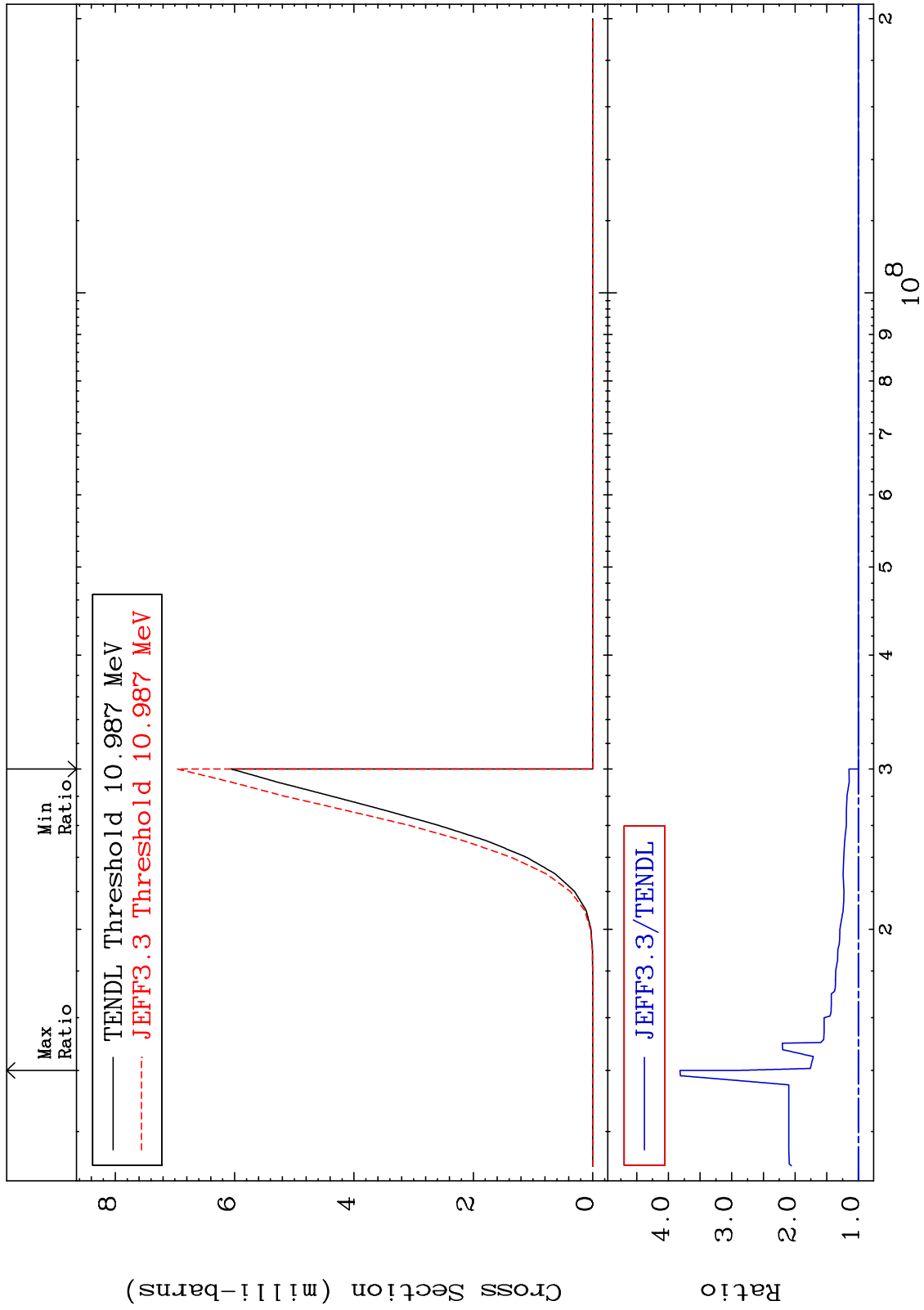
To 183.3 %

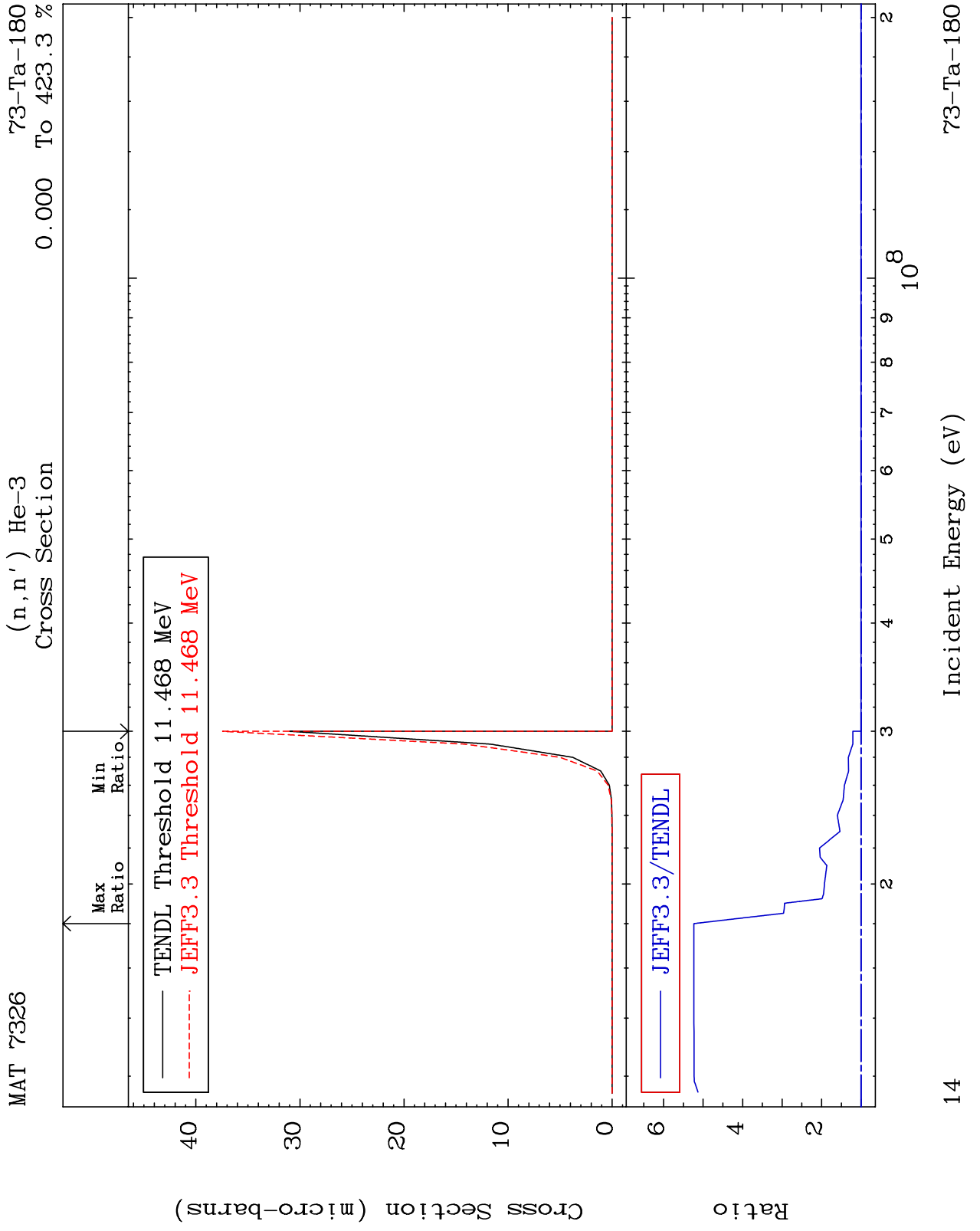


Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326  $(n, n') t$   $^{73}\text{Ta-180}$   
 Cross Section 0.000 To 281.6 %





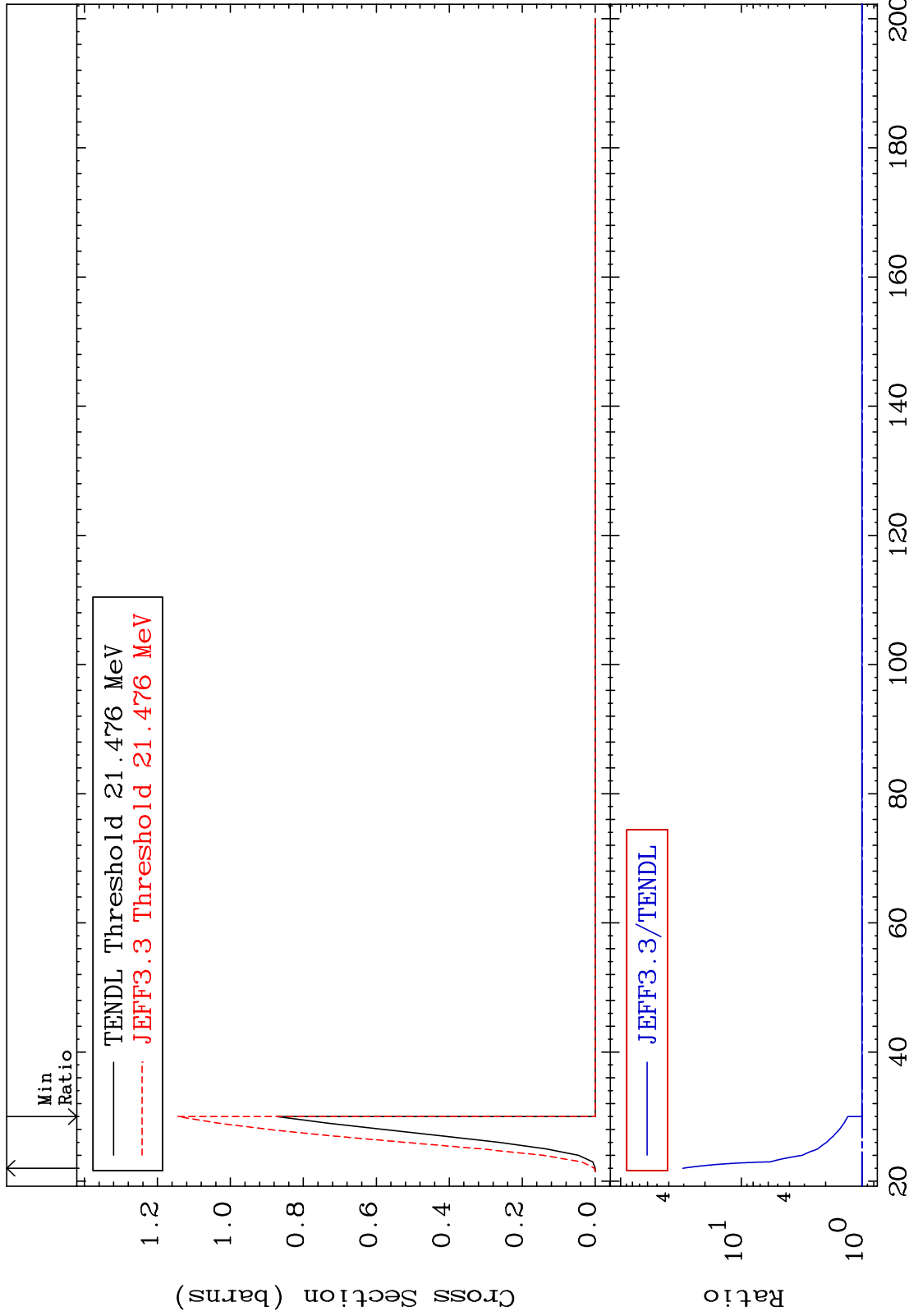
MAT 7326

(n, 4n)

<sup>73</sup>Ta-180

Cross Section

0.000 To 2953. %

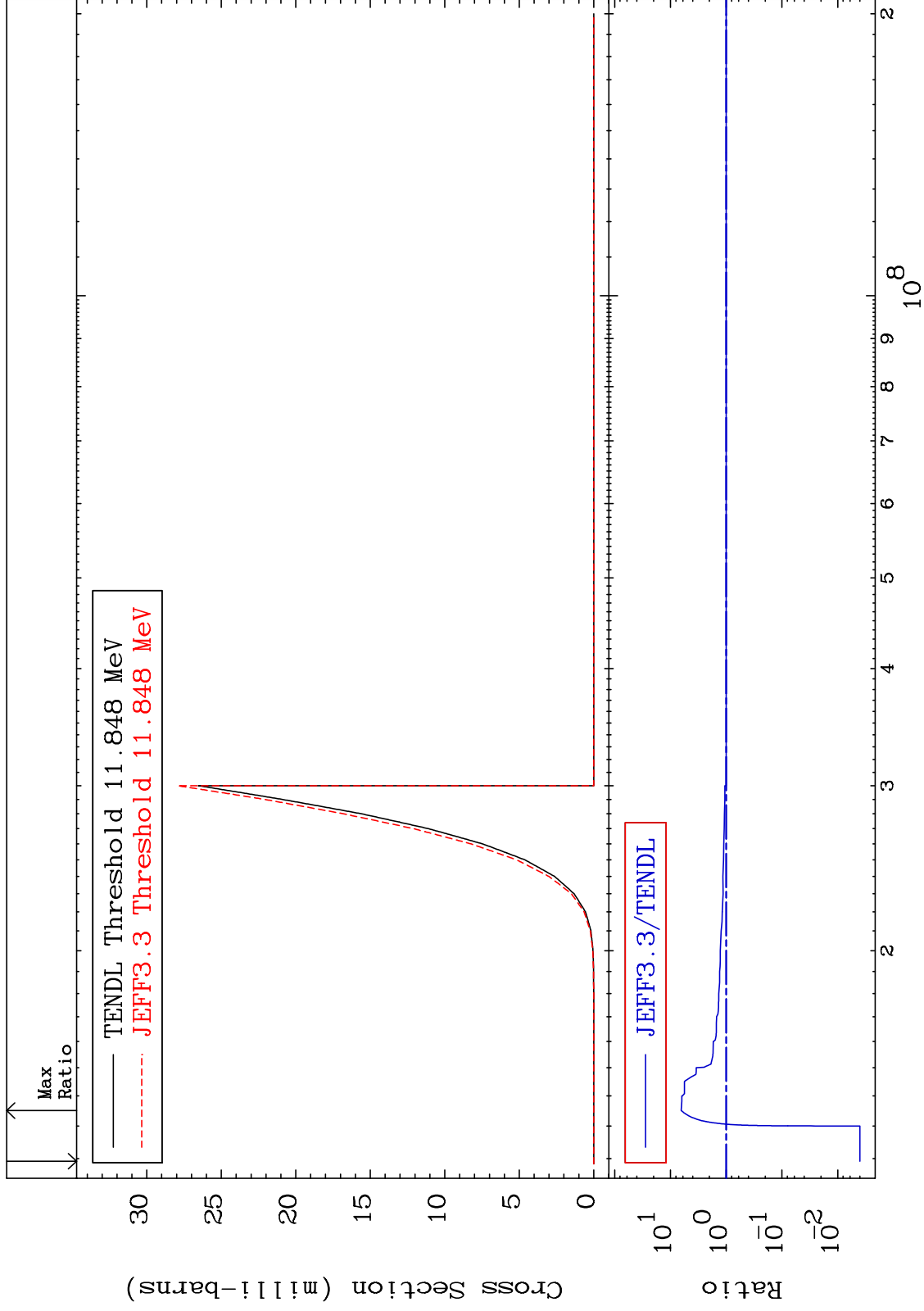




MAT 7326

(n,2n) p  
Cross Section

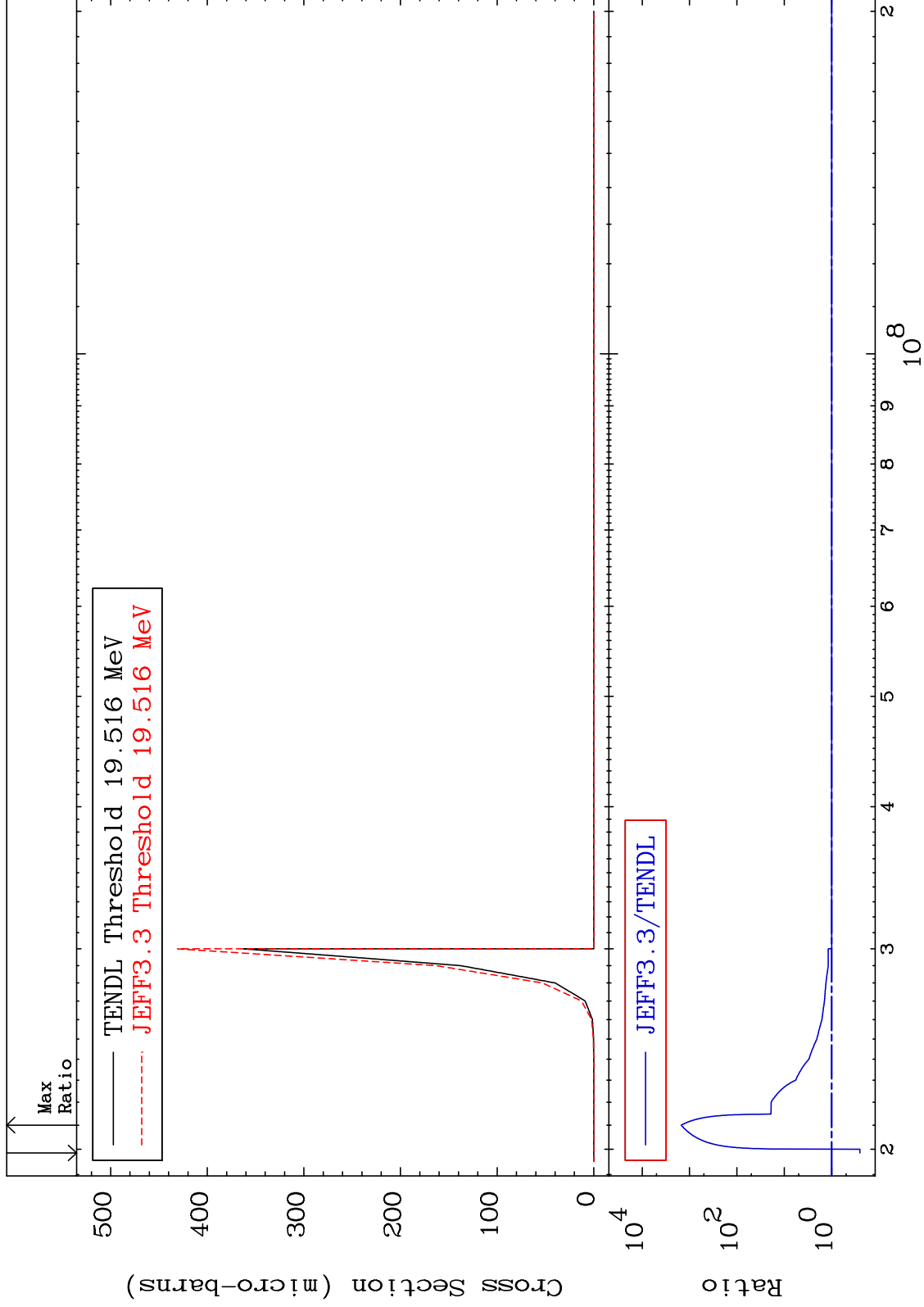
<sup>73</sup>Ta-180  
-99.60 To 540.7 %



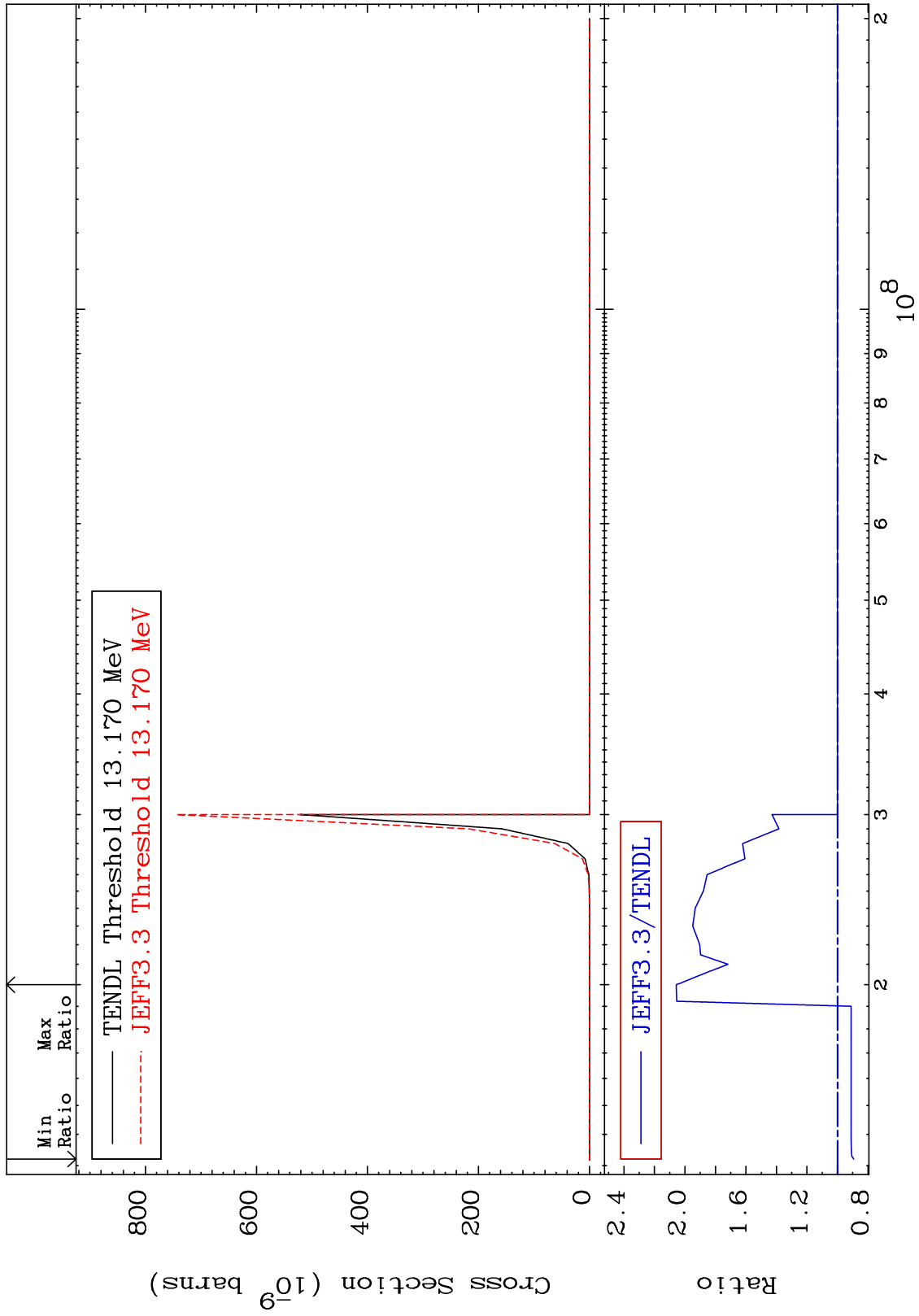
MAT 7326

(n,3n) p  
Cross Section

<sup>73</sup>Ta-180  
-74.53 To 9999. %



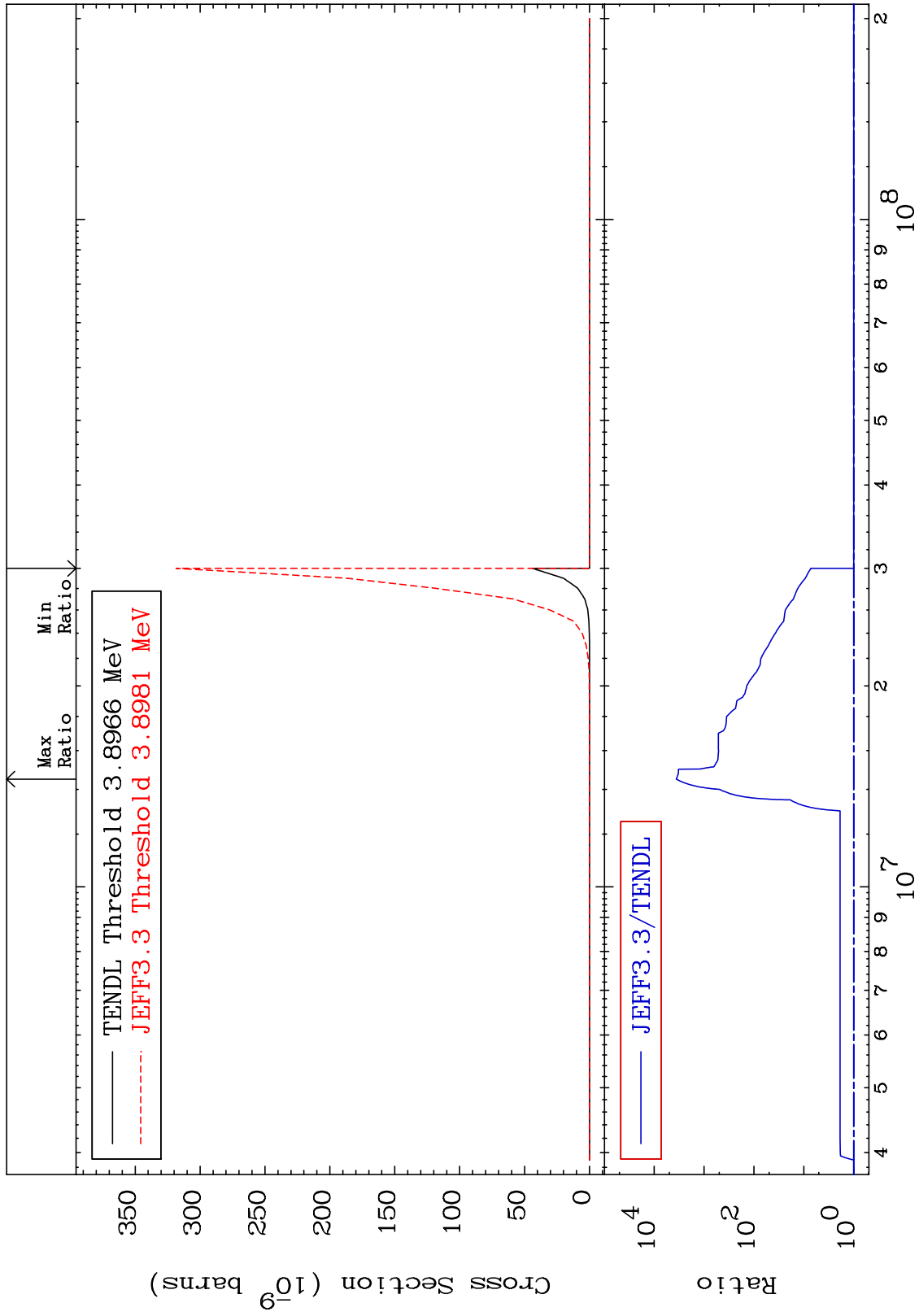
MAT 7326  $(n, 2n) p$   $^{73}\text{Ta-180}$   
 Cross Section -10.68 To 105.6 %



MAT 7326

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

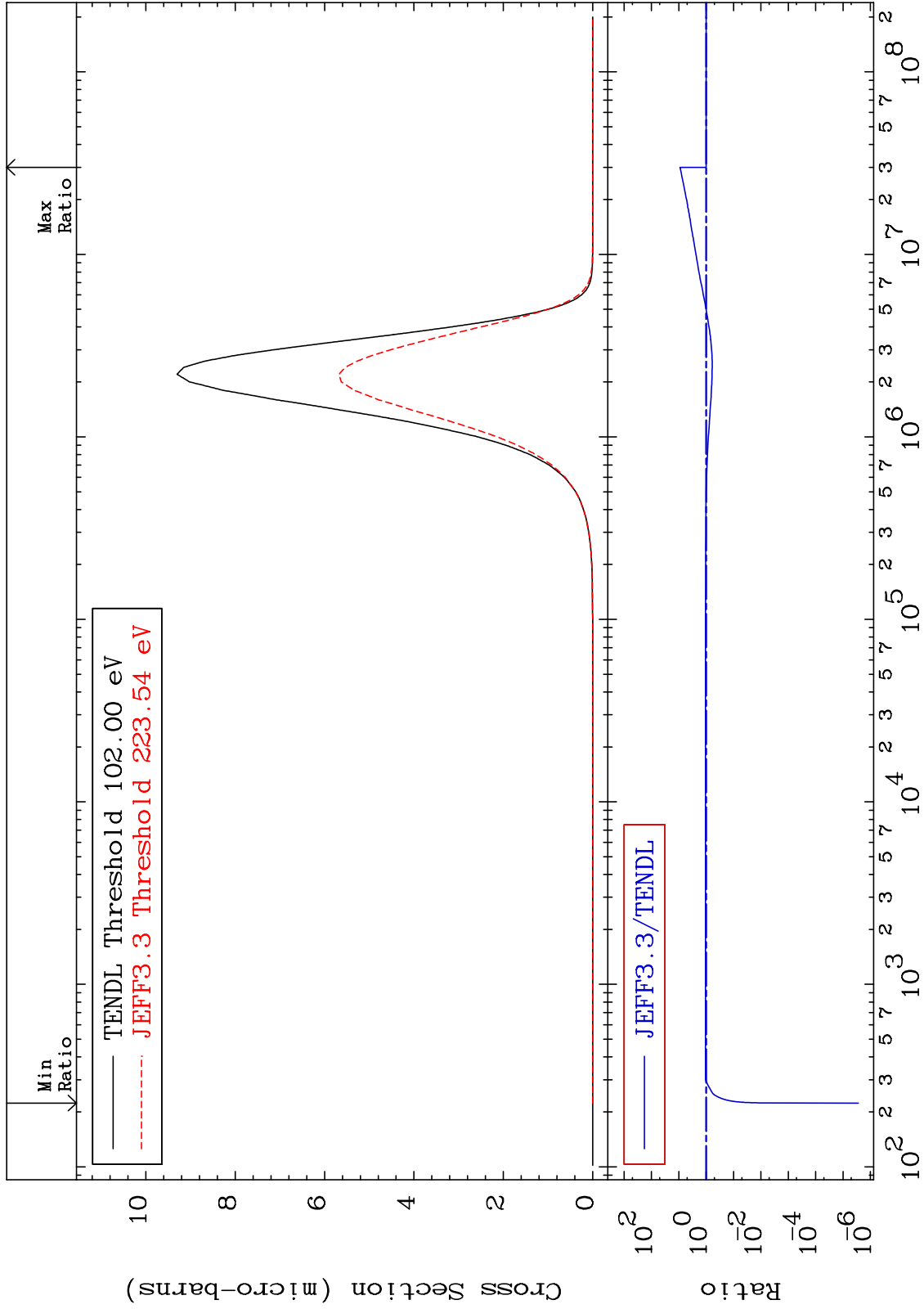
73-Ta-180  
0.000 To 9999. %



MAT 7326

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

73-Ta-180  
-100.0 To 805.5 %



20

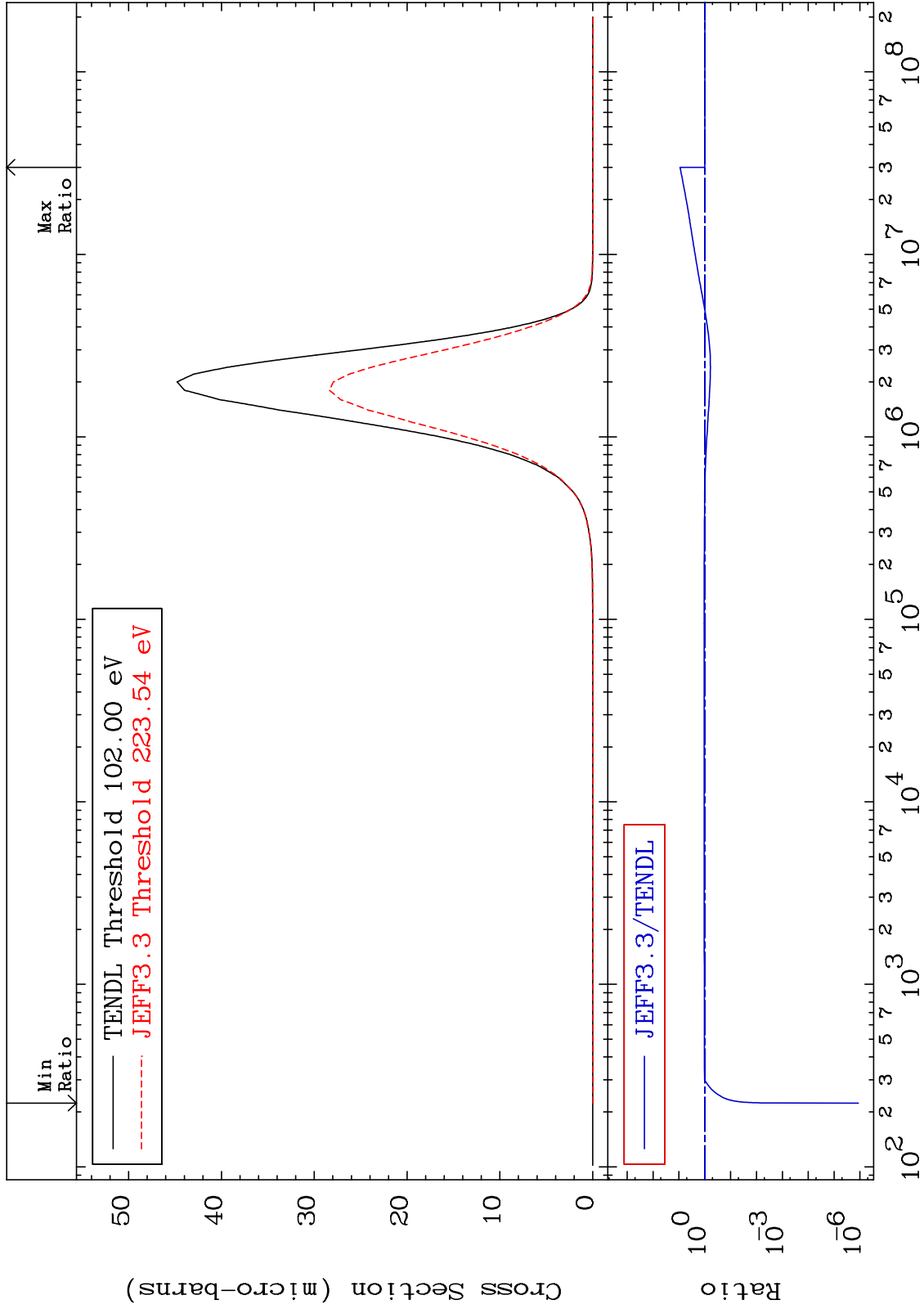
Incident Energy (eV)

73-Ta-180

MAT 7326

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

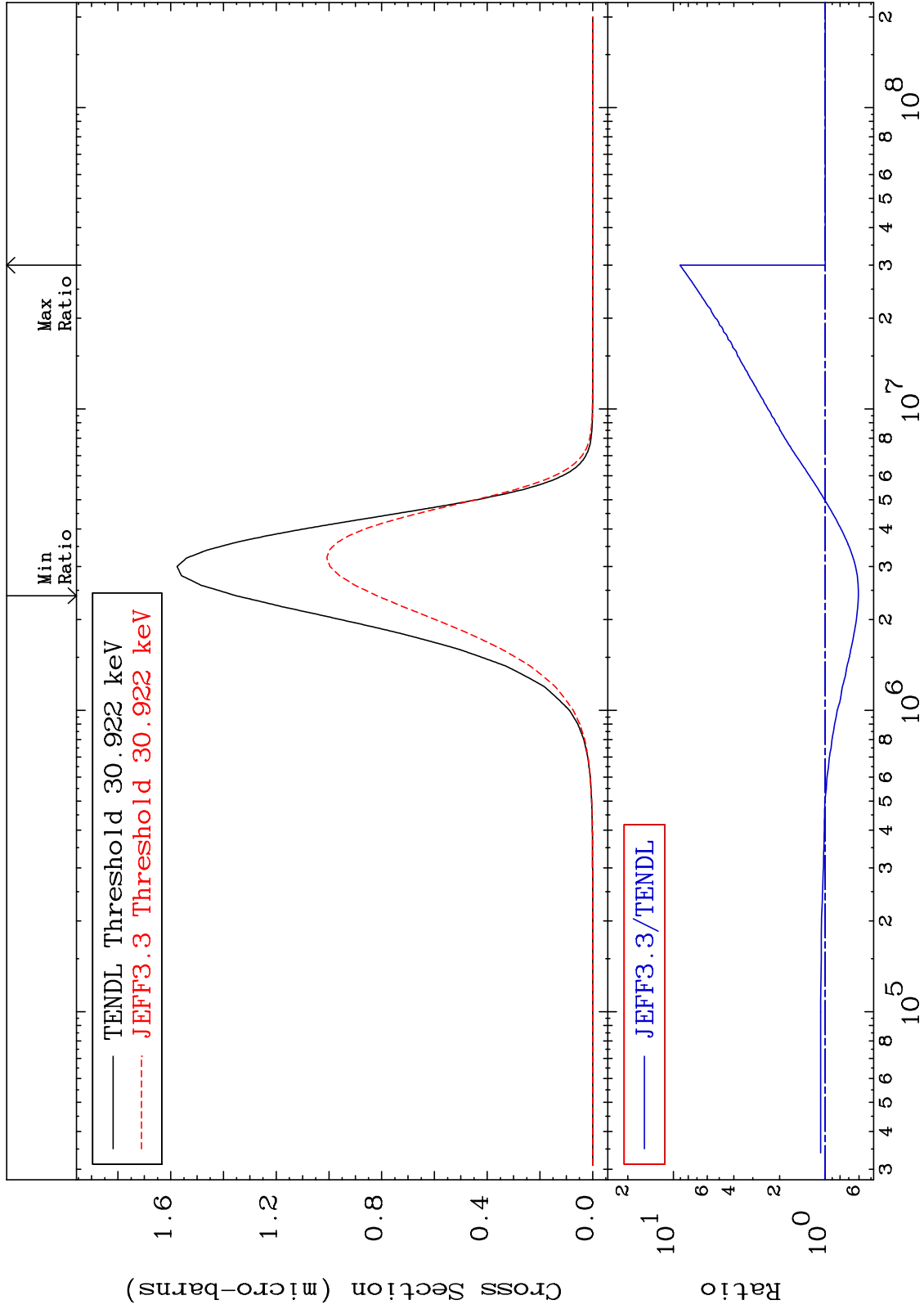
73-Ta-180  
-100.0 To 804.4 %



MAT 7326

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

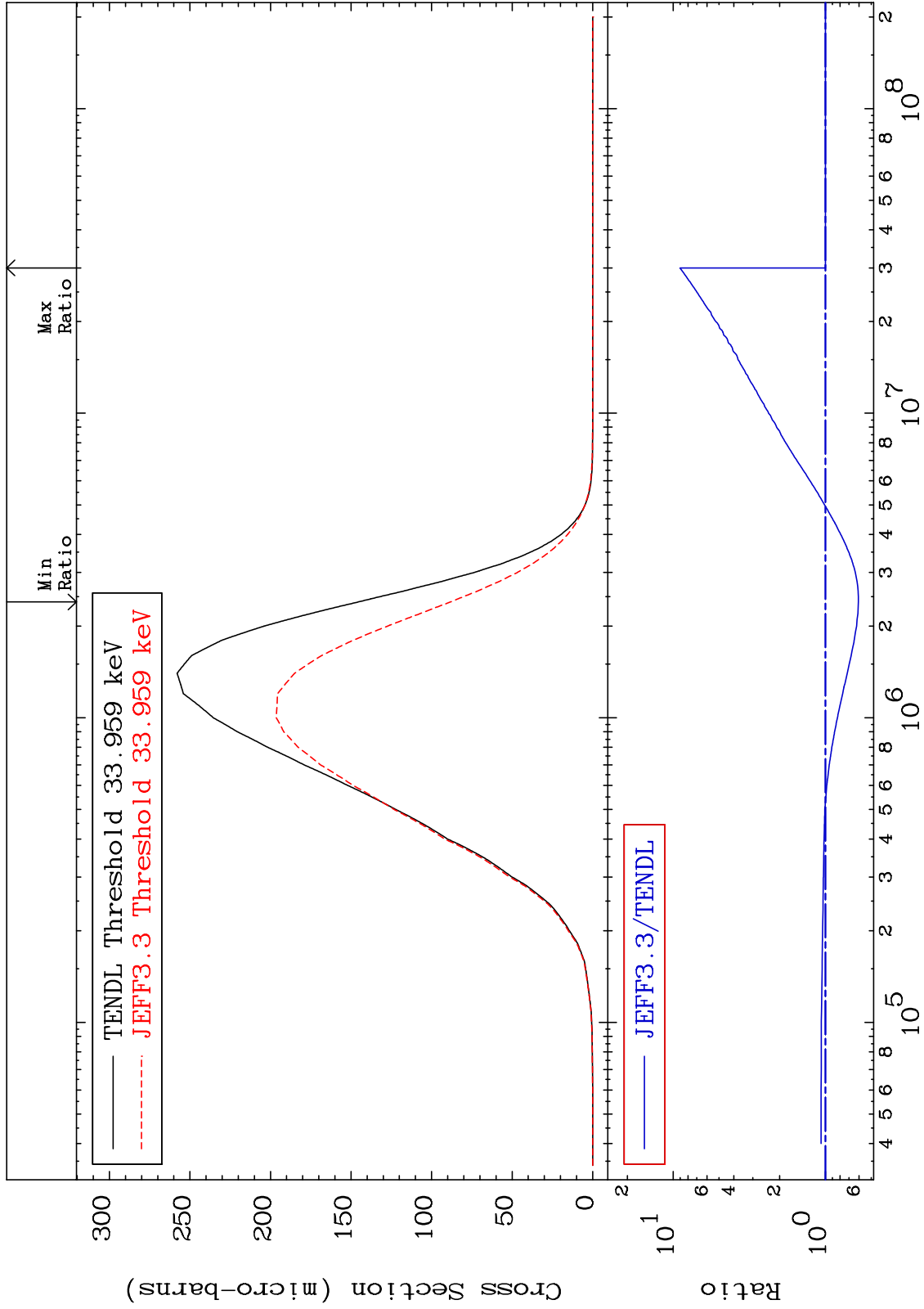
73-Ta-180  
-39.49 To 806.0 %



MAT 7326

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

73-Ta-180  
-39.36 To 803.0 %

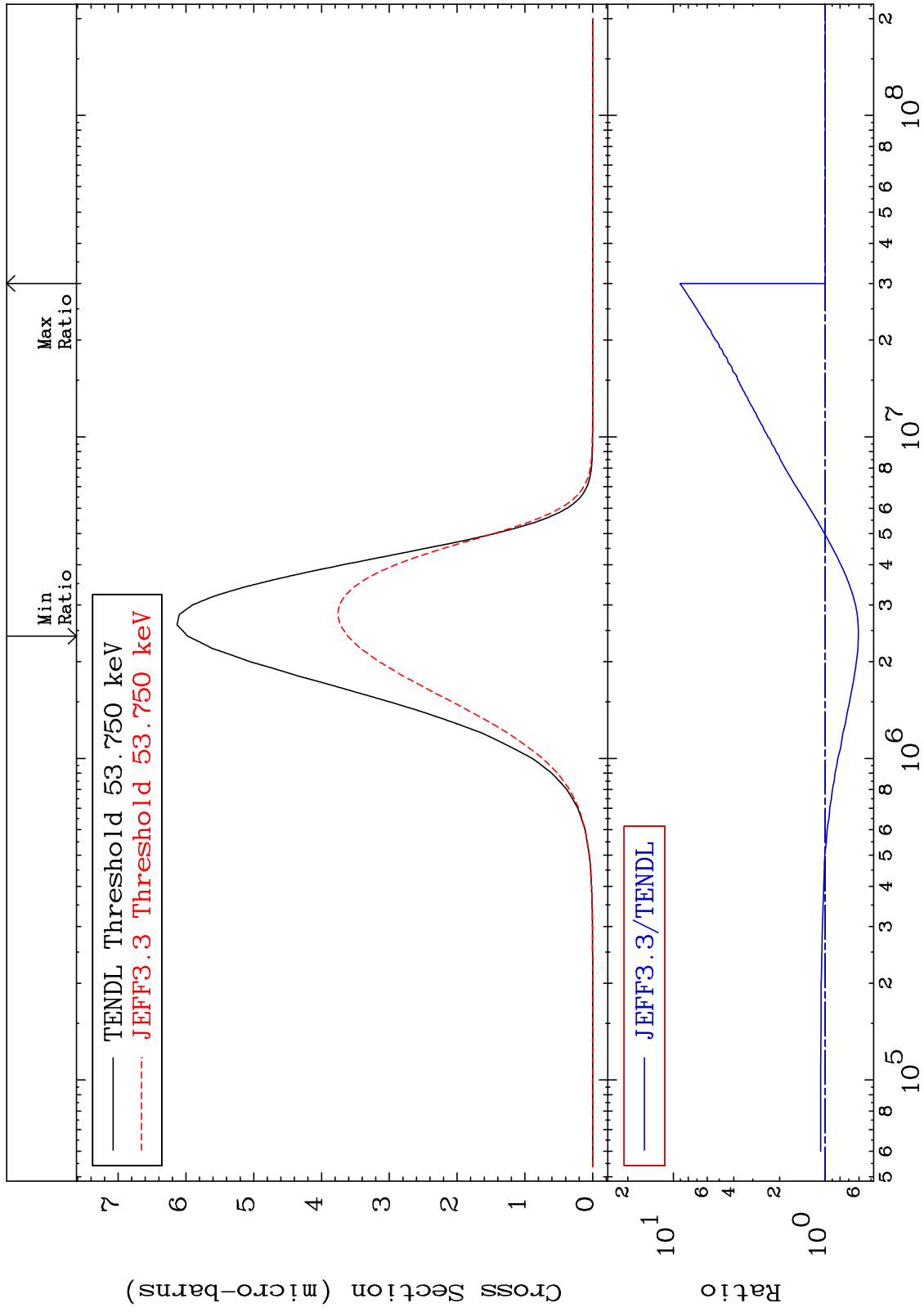




MAT 7326

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

<sup>73</sup>Ta-180  
-39.48 To 805.5 %



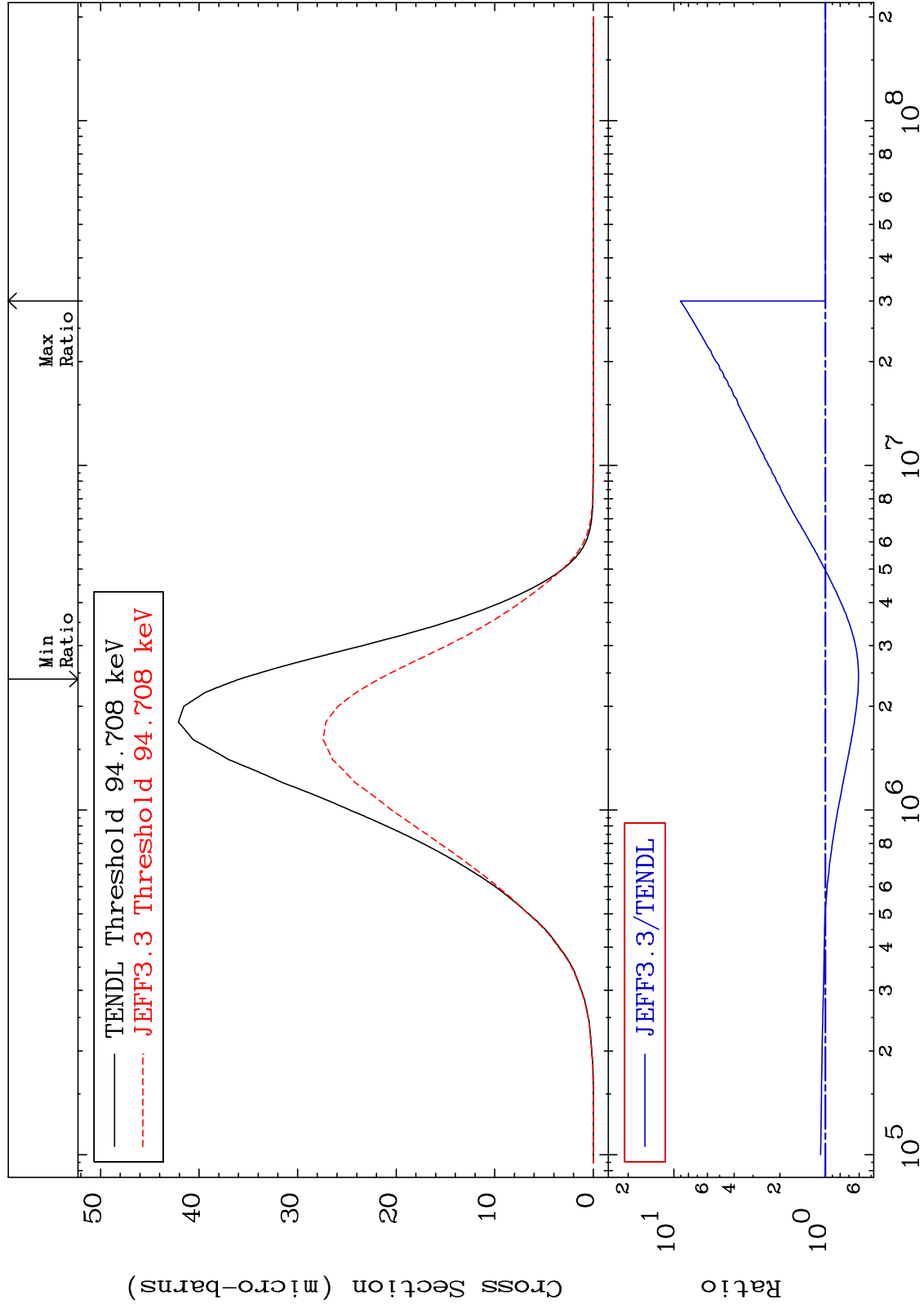
MAT 7326

MT= 56 (n,n') Level

<sup>73</sup>Ta-180

Cross Section

-39.44 To 804.5 %



25

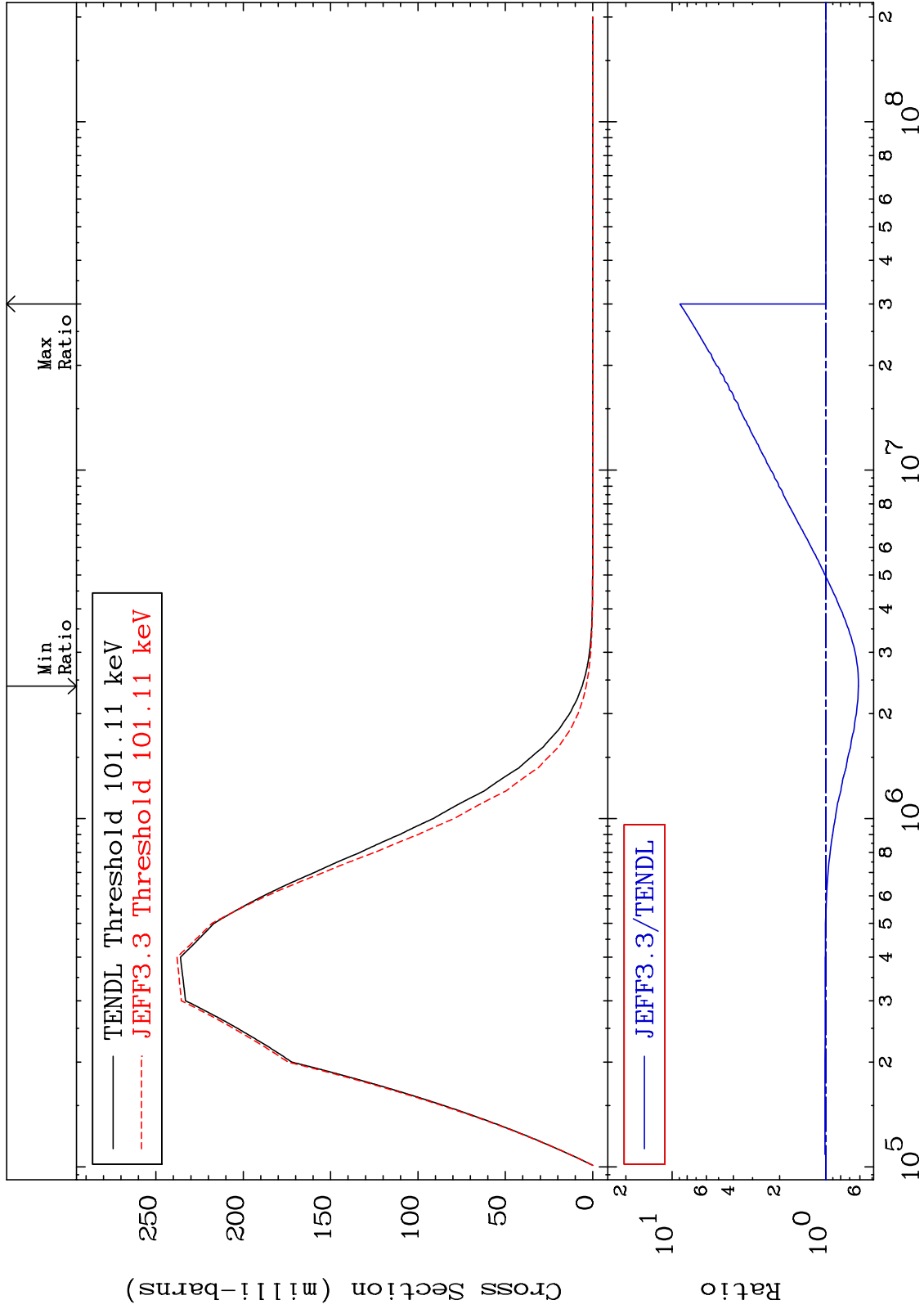
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

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

<sup>73</sup>Ta-180  
-38.60 To 789.4 %



26

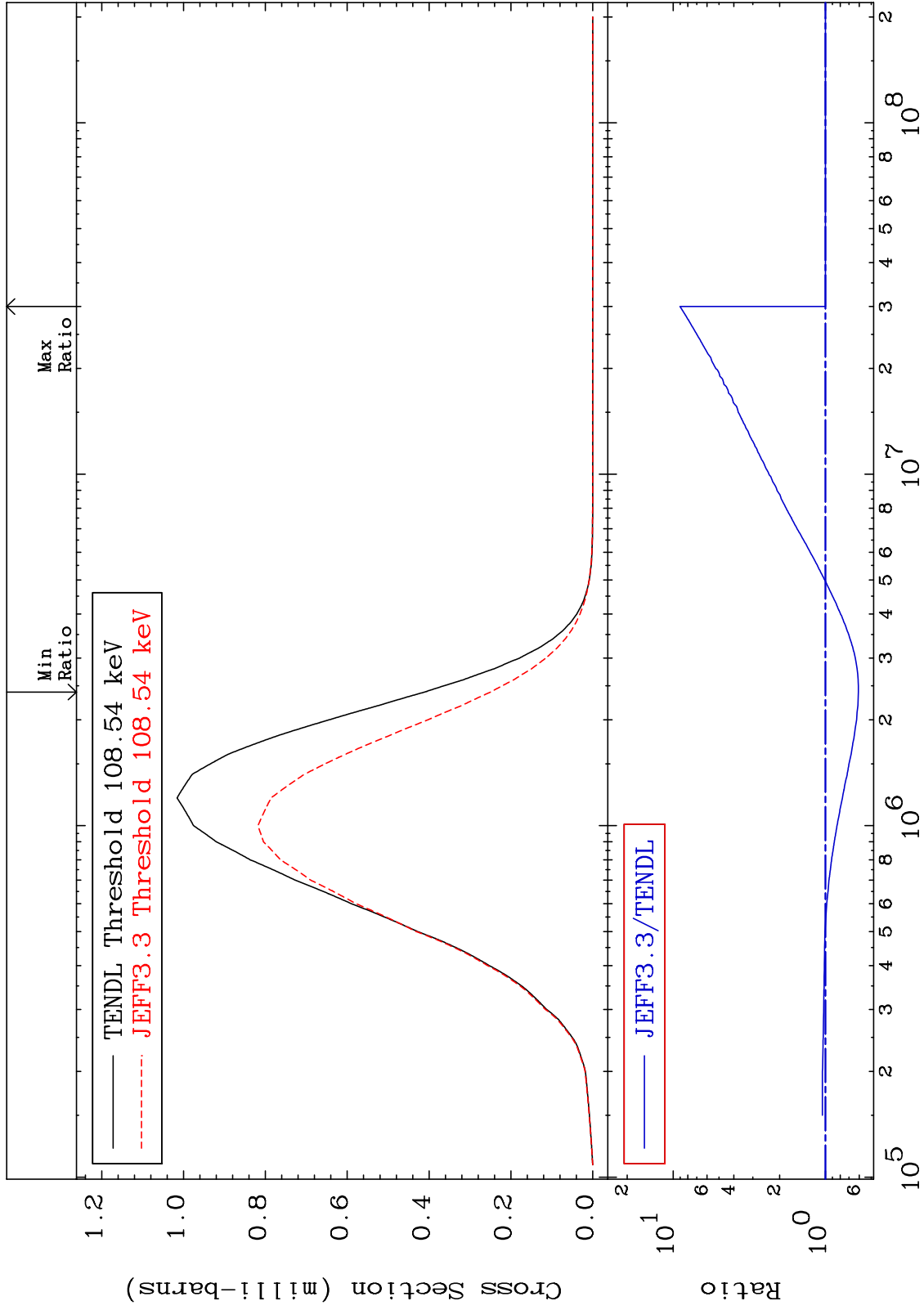
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

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

73-Ta-180  
-39.26 To 801.0 %



27

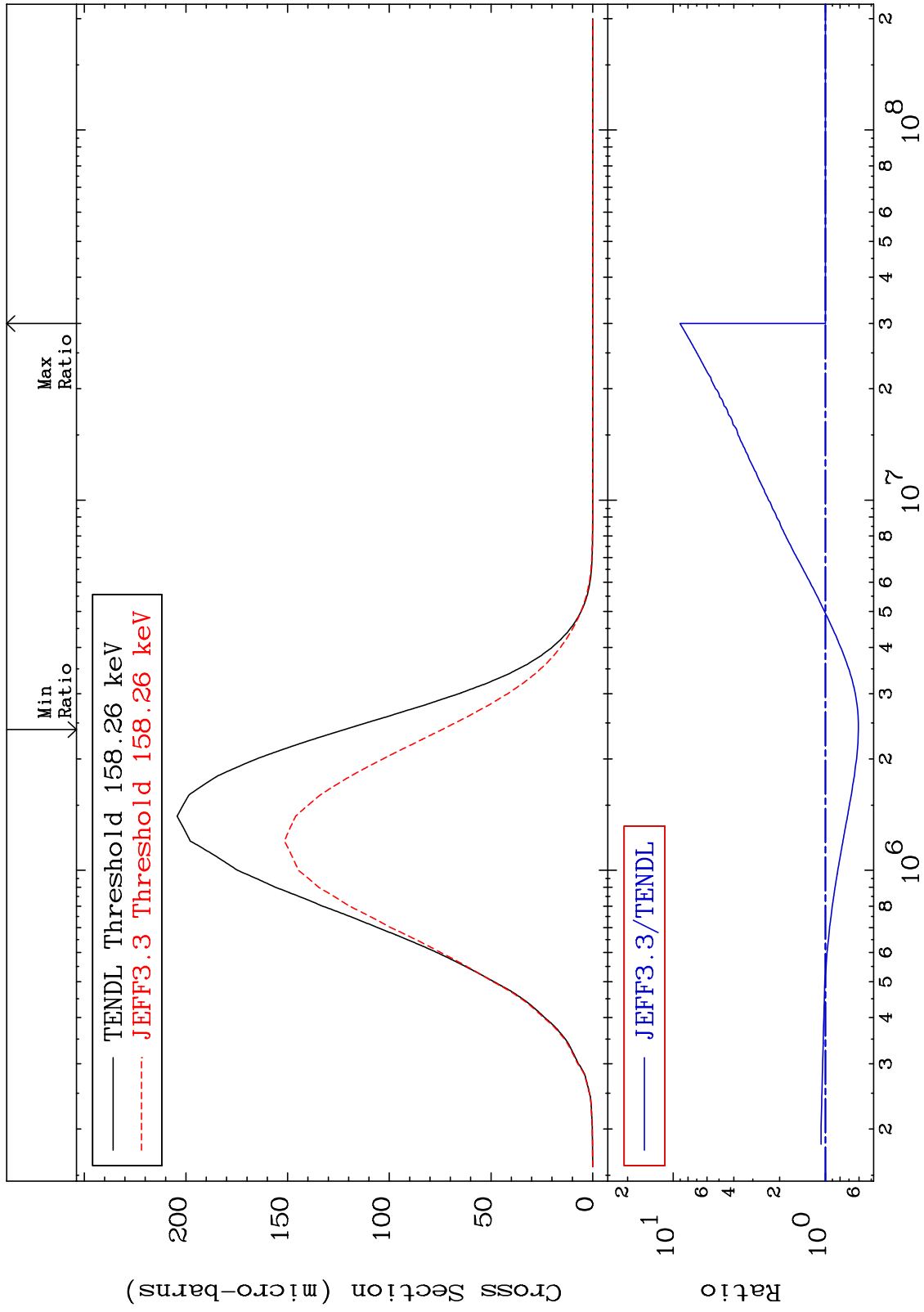
Incident Energy (eV)

73-Ta-180

MAT 7326

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

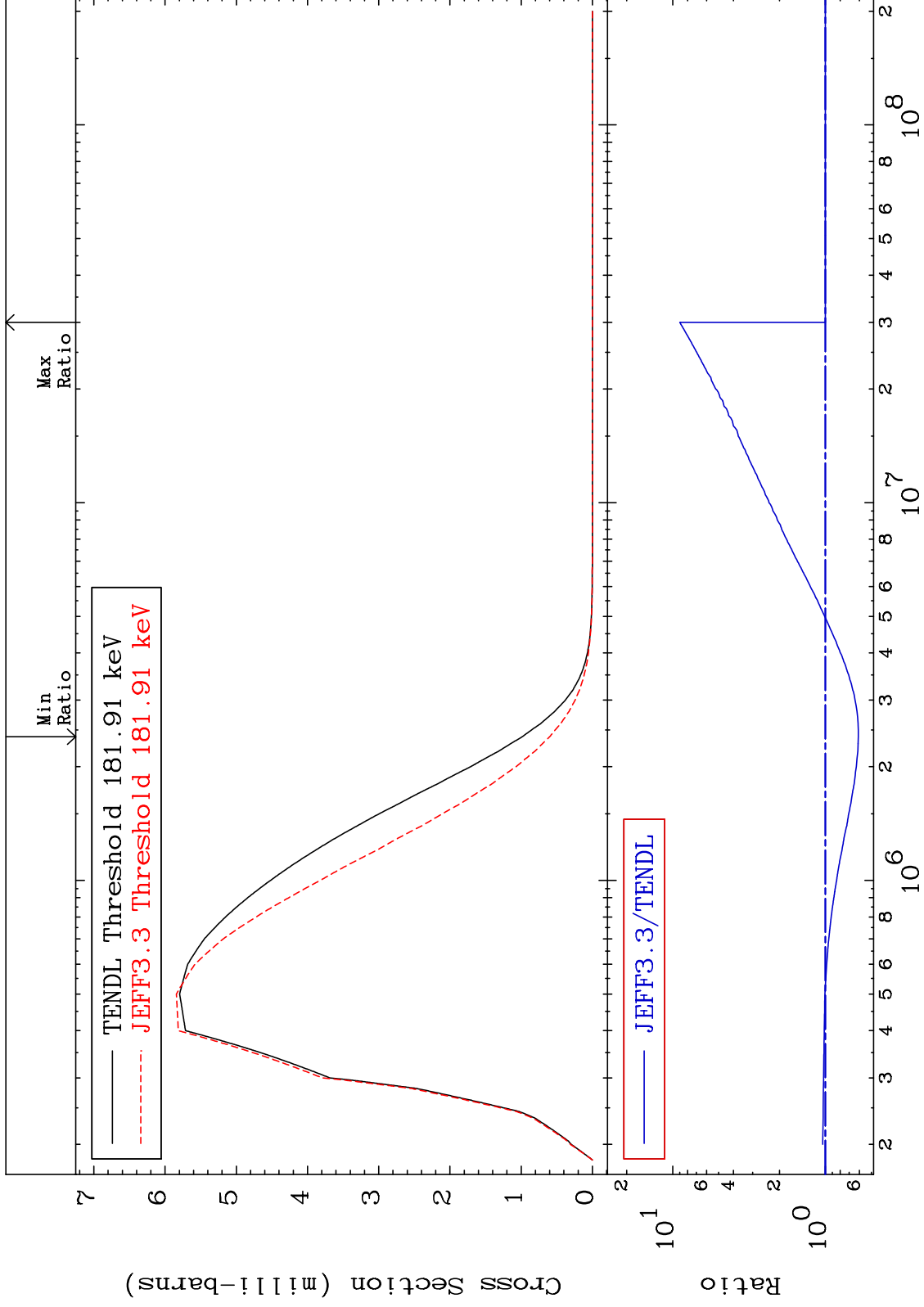
73-Ta-180  
-39.38 To 803.0 %

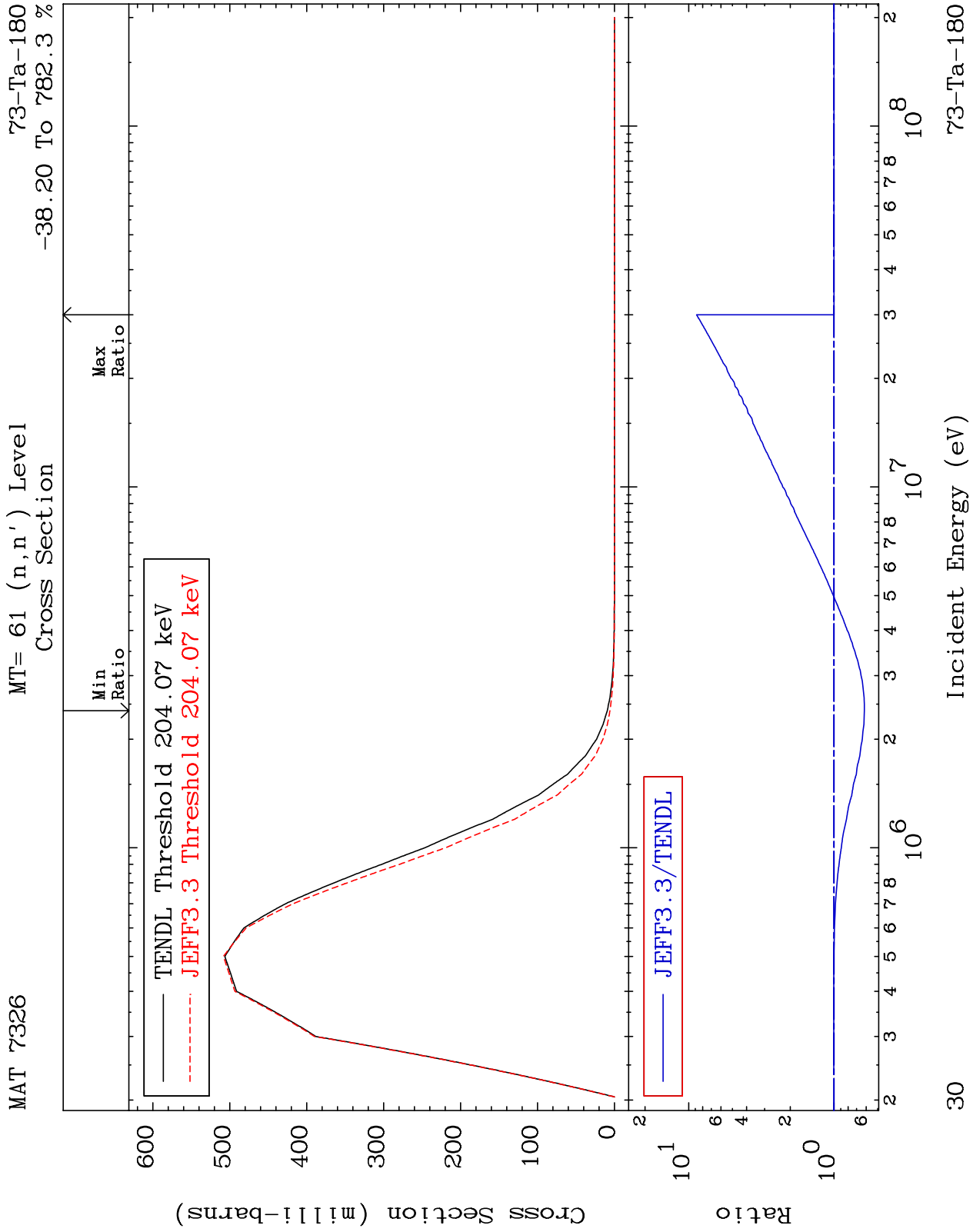


MAT 7326

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

<sup>73</sup>Ta-180  
-39.12 To 798.6 %

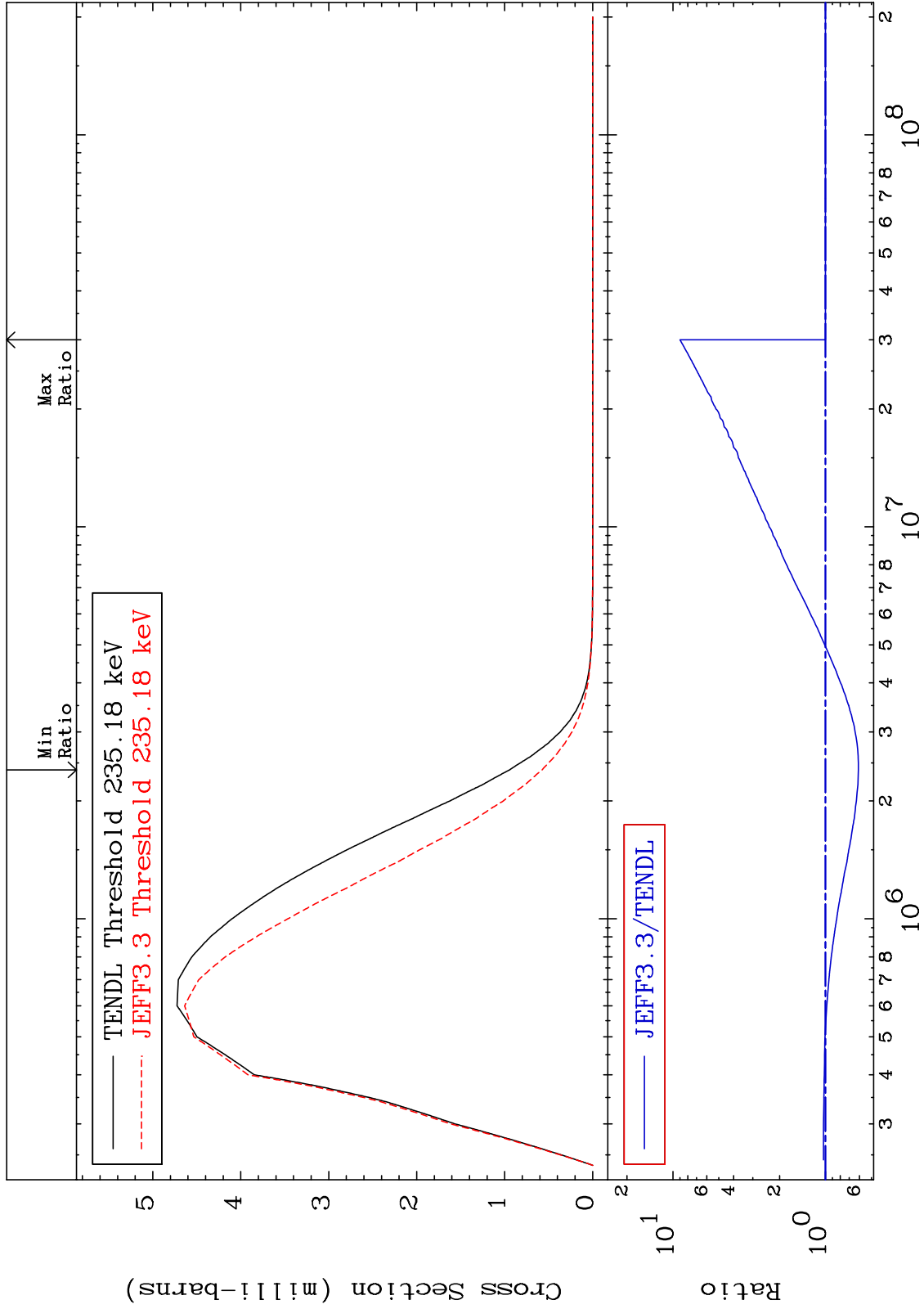




MAT 7326

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

<sup>73</sup>Ta-180  
-39.13 To 798.6 %

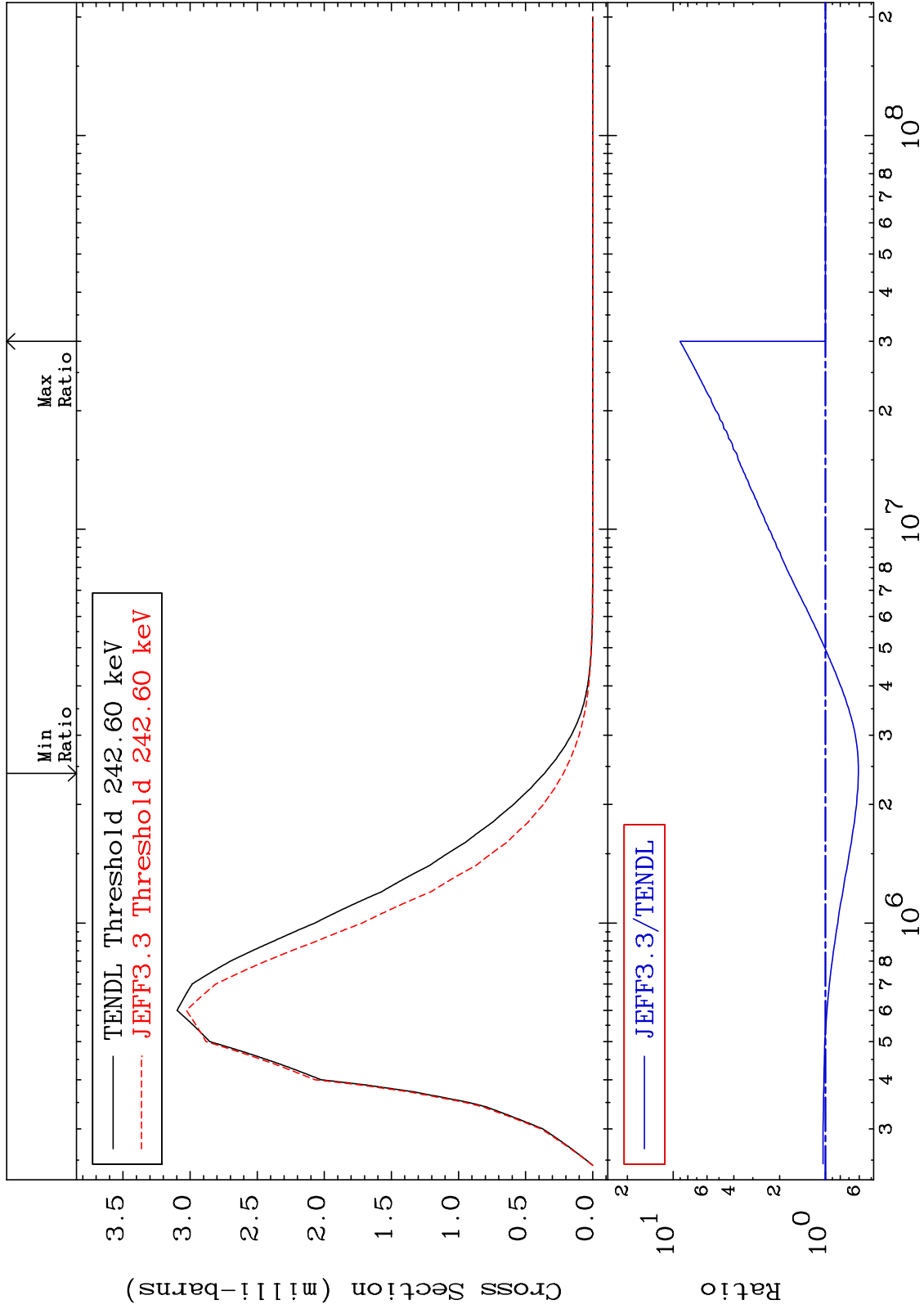




MAT 7326

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

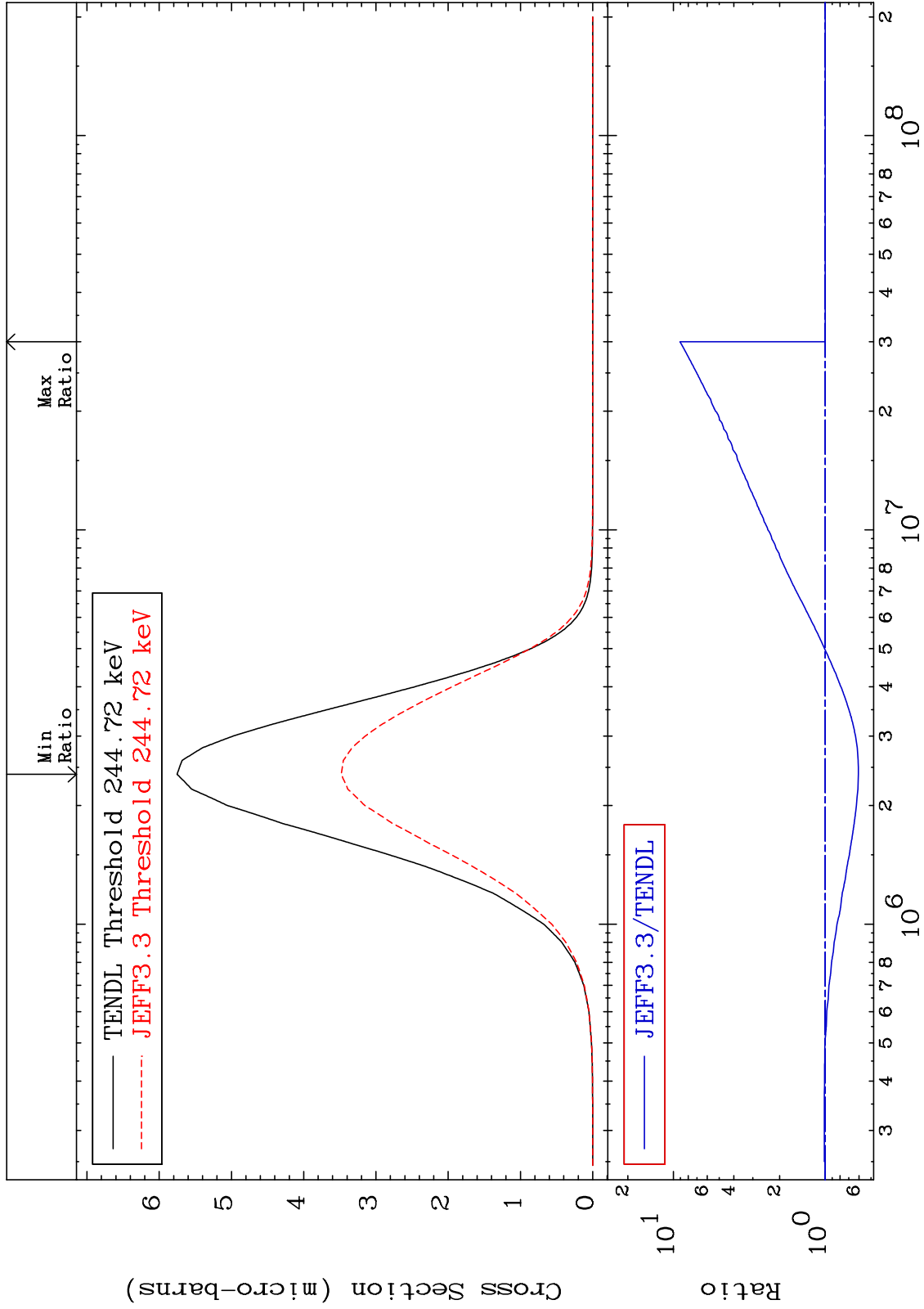
<sup>73</sup>Ta-180  
-39.28 To 801.0 %



MAT 7326

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

<sup>73</sup>Ta-180  
-39.49 To 805.6 %

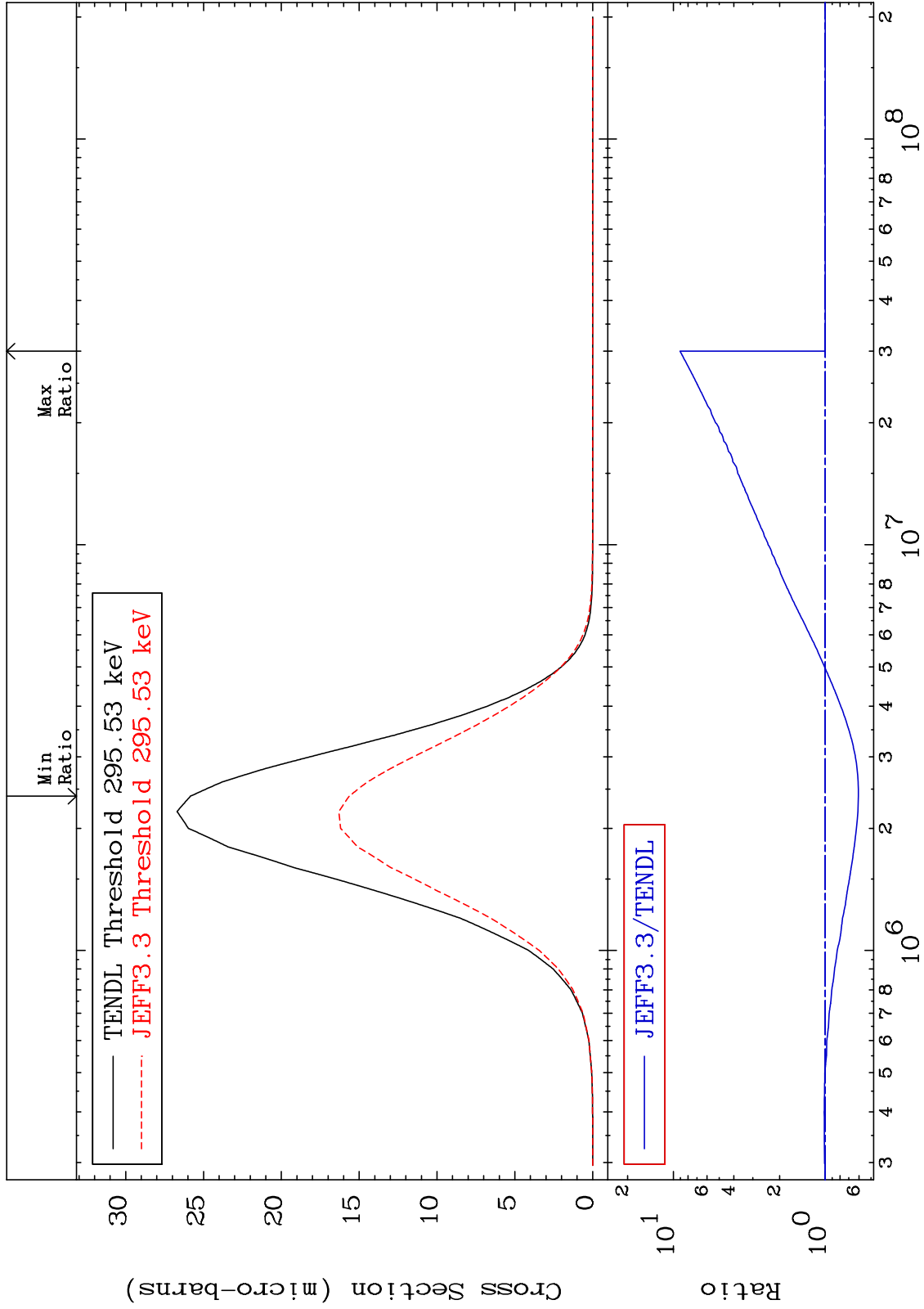




MAT 7326

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

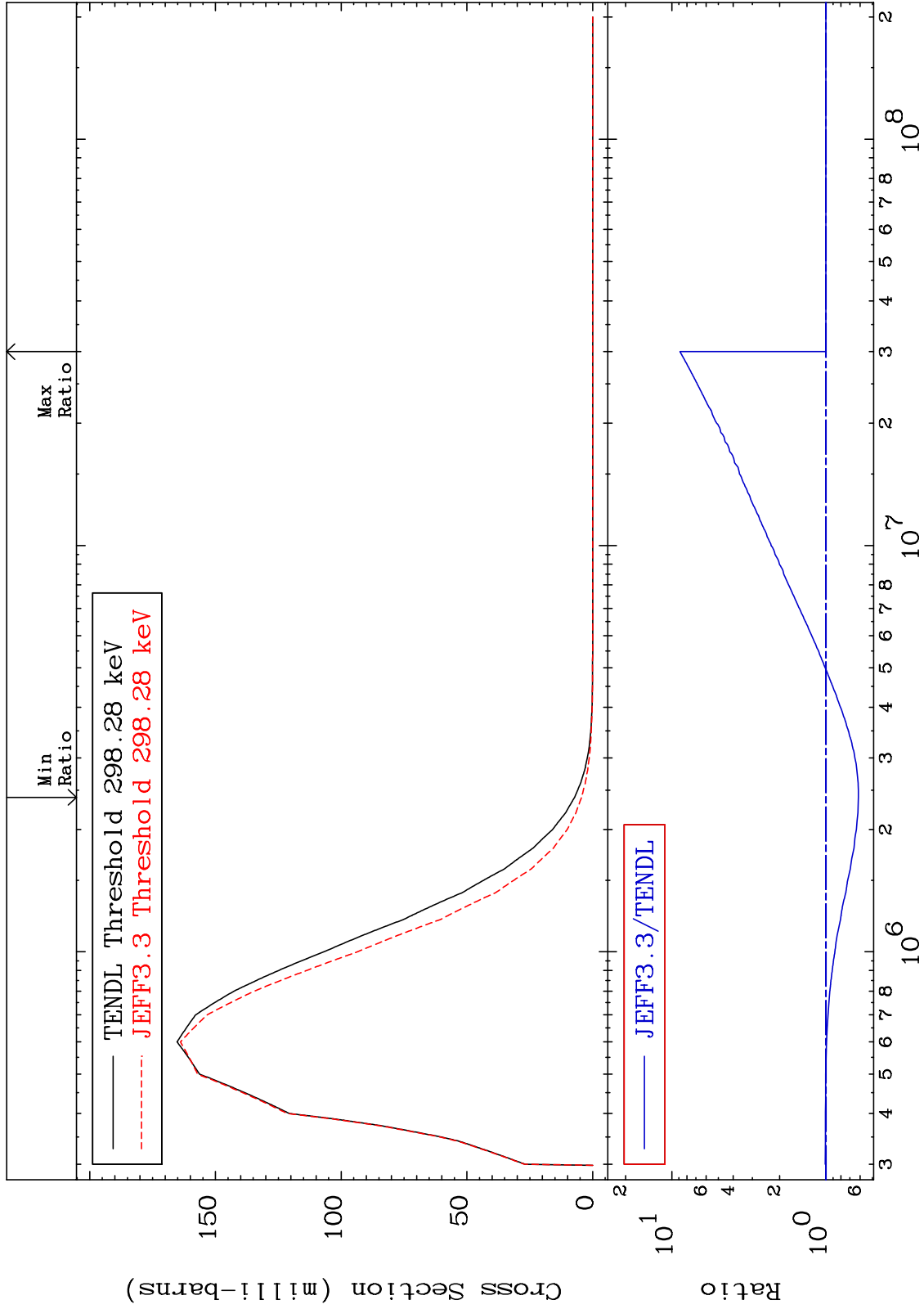
<sup>73</sup>Ta-180  
-39.45 To 804.6 %



MAT 7326

MT= 67 (n,n') Level  
Cross Section

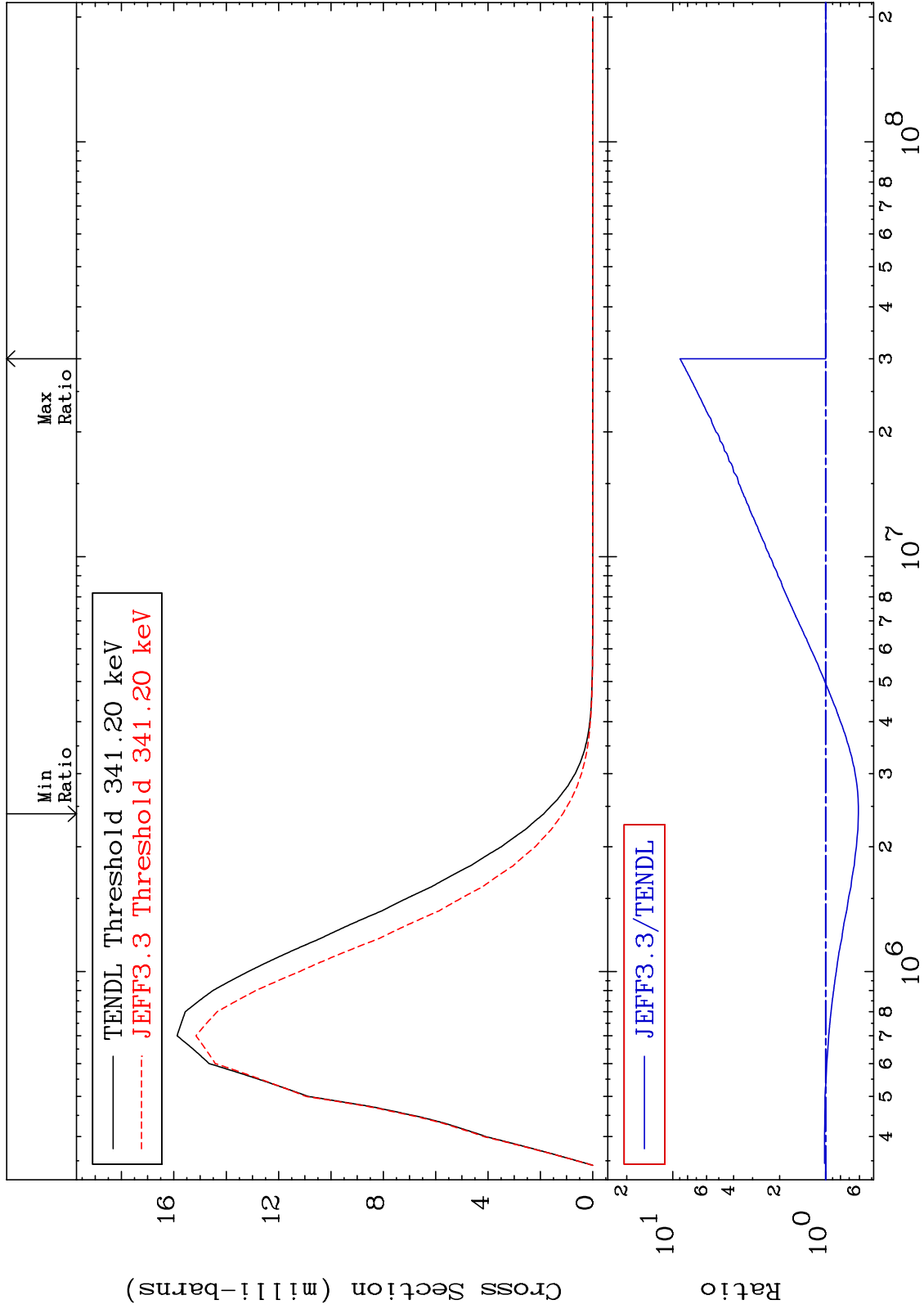
73-Ta-180  
-38.42 To 786.0 %



MAT 7326

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

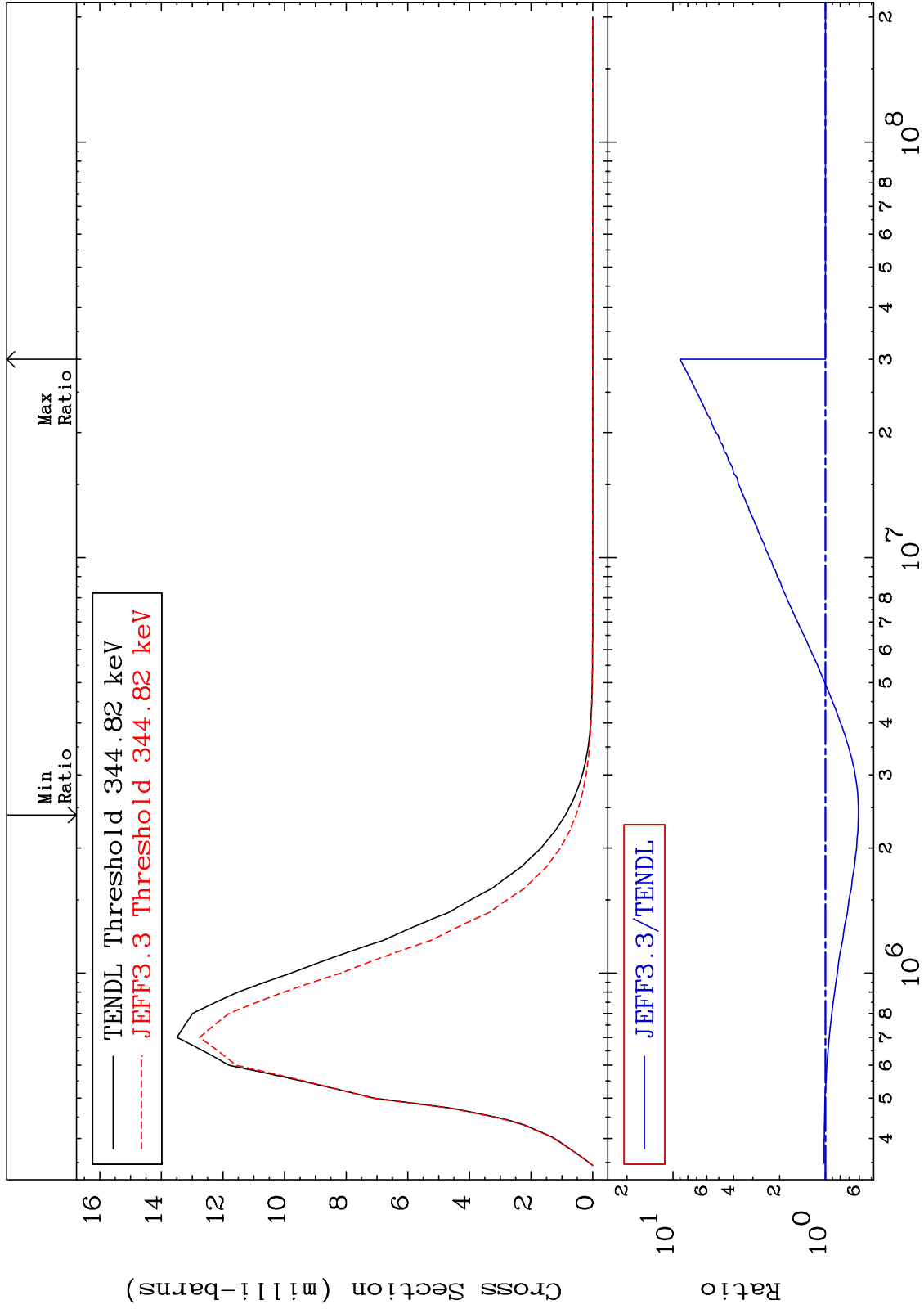
73-Ta-180  
-38.97 To 795.9 %



MAT 7326

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

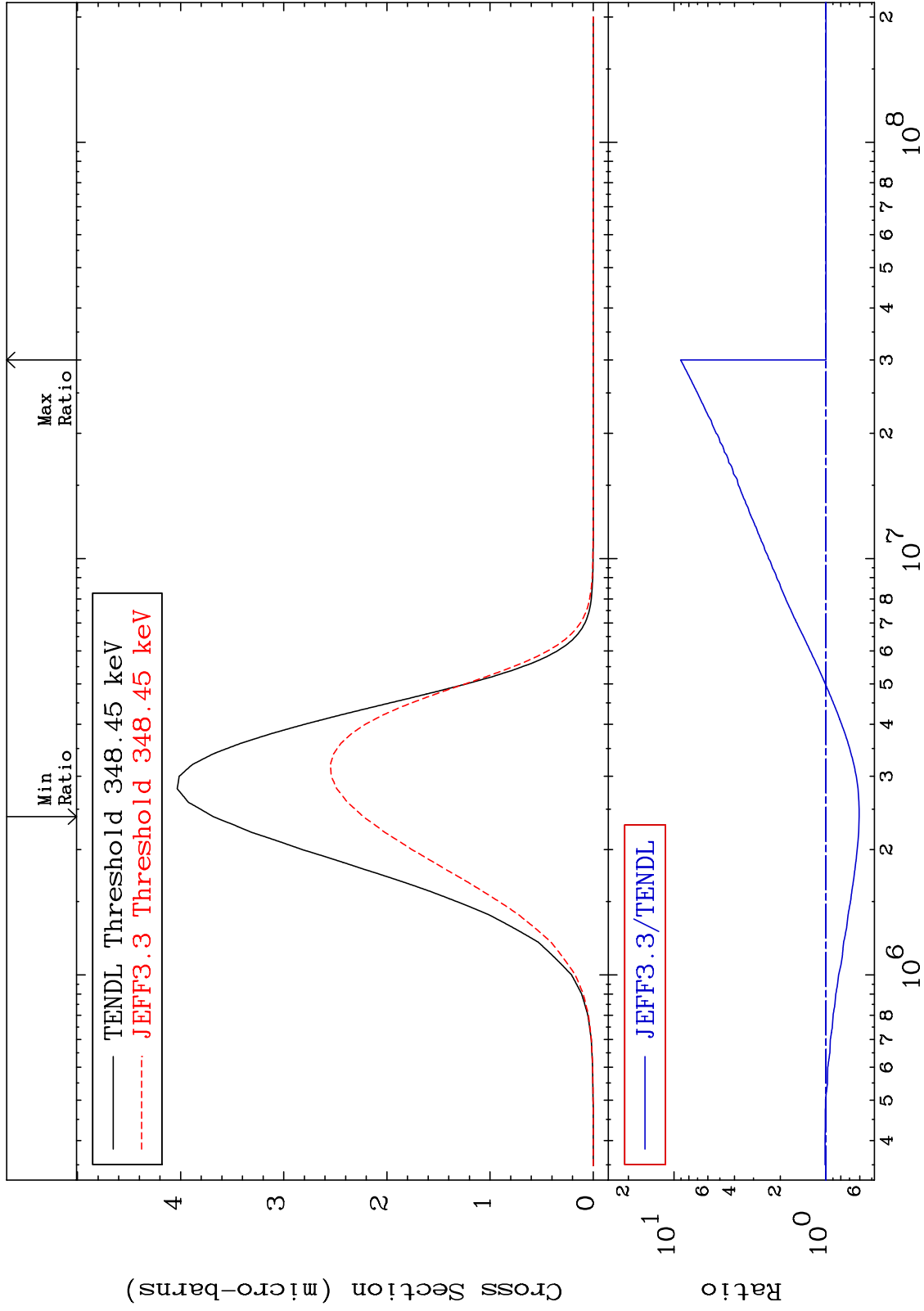
<sup>73</sup>Ta-180  
-39.16 To 798.7 %



MAT 7326

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

<sup>73</sup>Ta-180  
-39.50 To 805.6 %

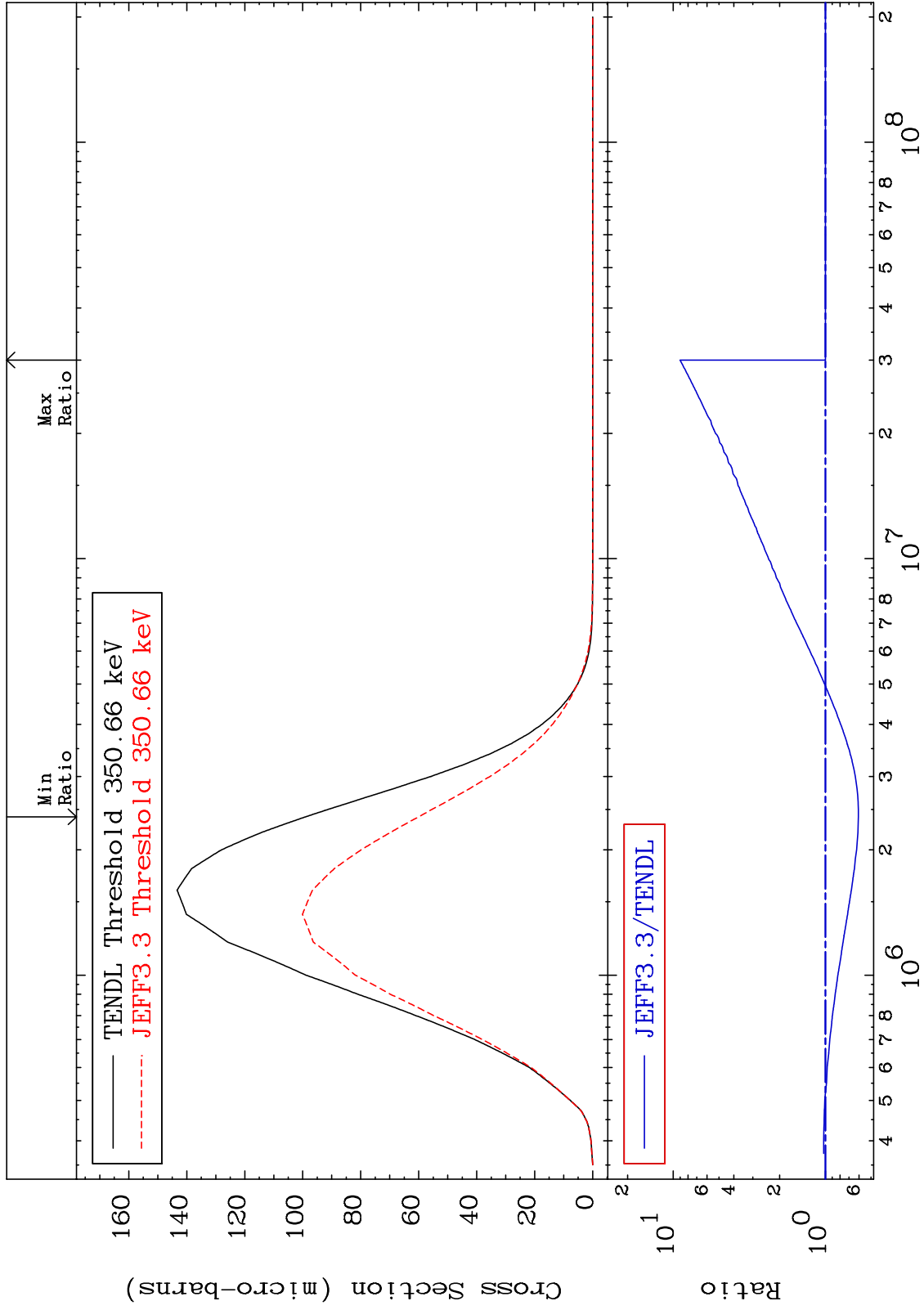




MAT 7326

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

<sup>73</sup>Ta-180  
-39.39 To 803.1 %



40

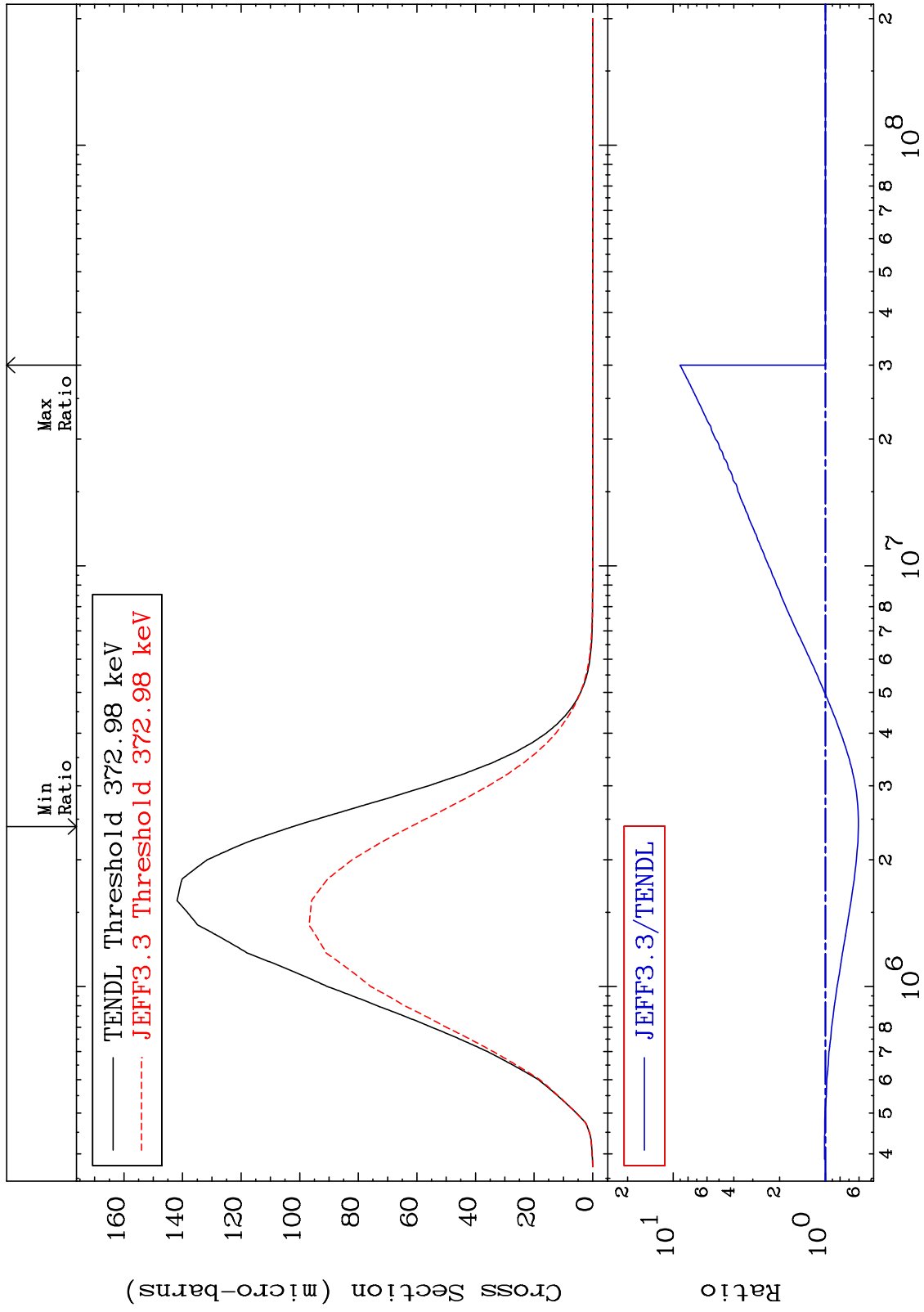
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

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

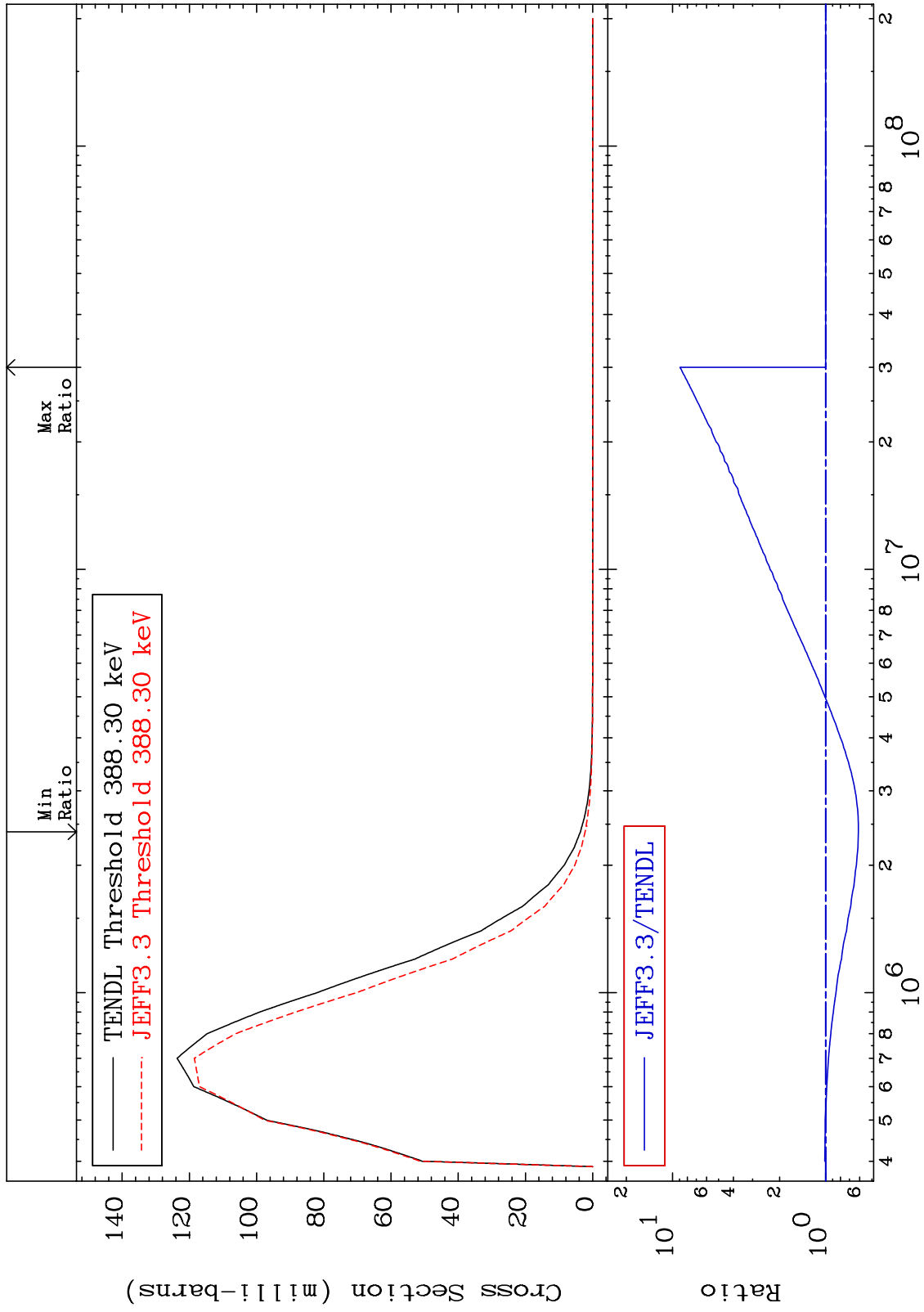
<sup>73</sup>Ta-180  
-39.39 To 803.1 %



MAT 7326

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

73-Ta-180  
-38.82 To 792.8 %



42

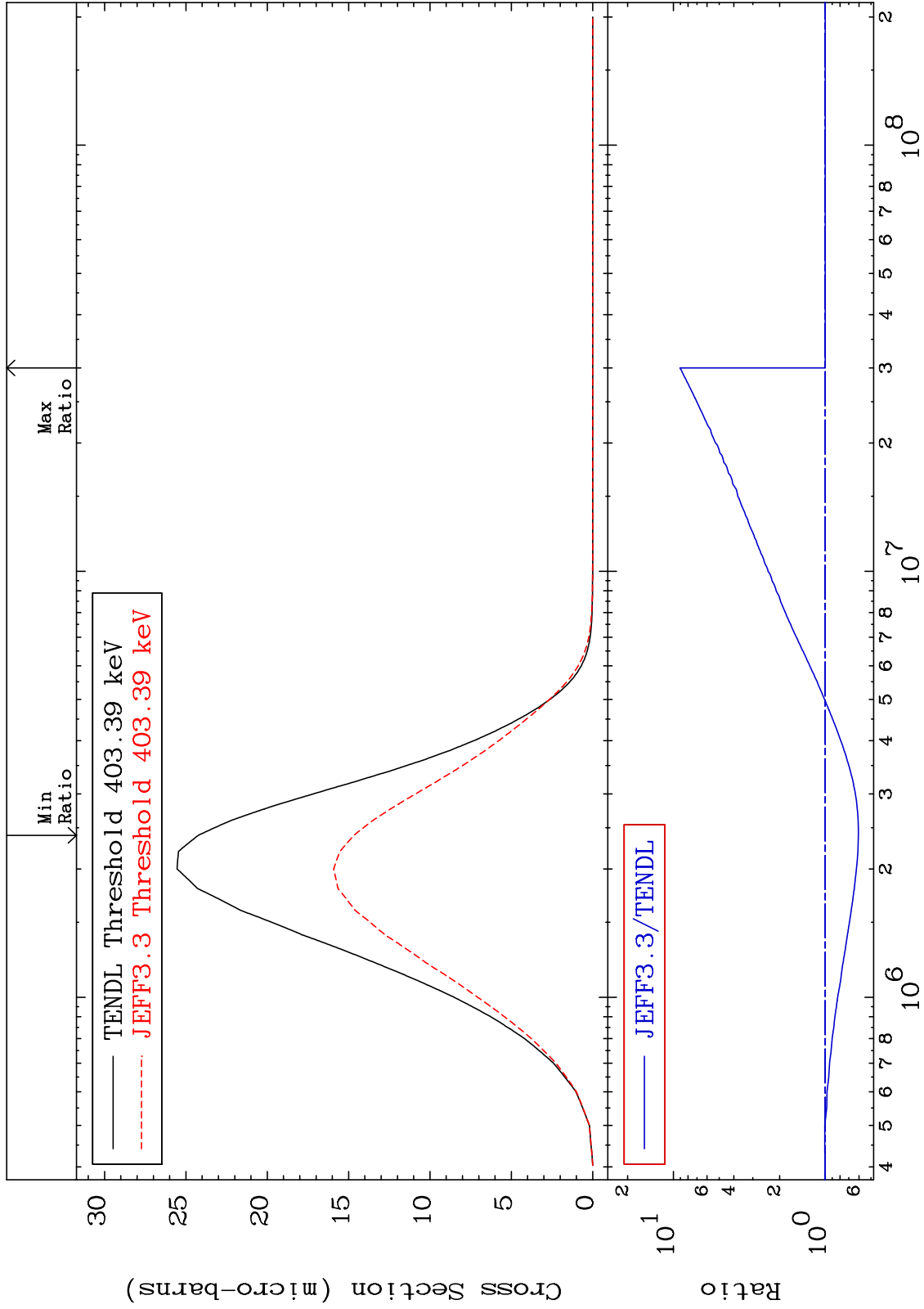
Incident Energy (eV)

73-Ta-180

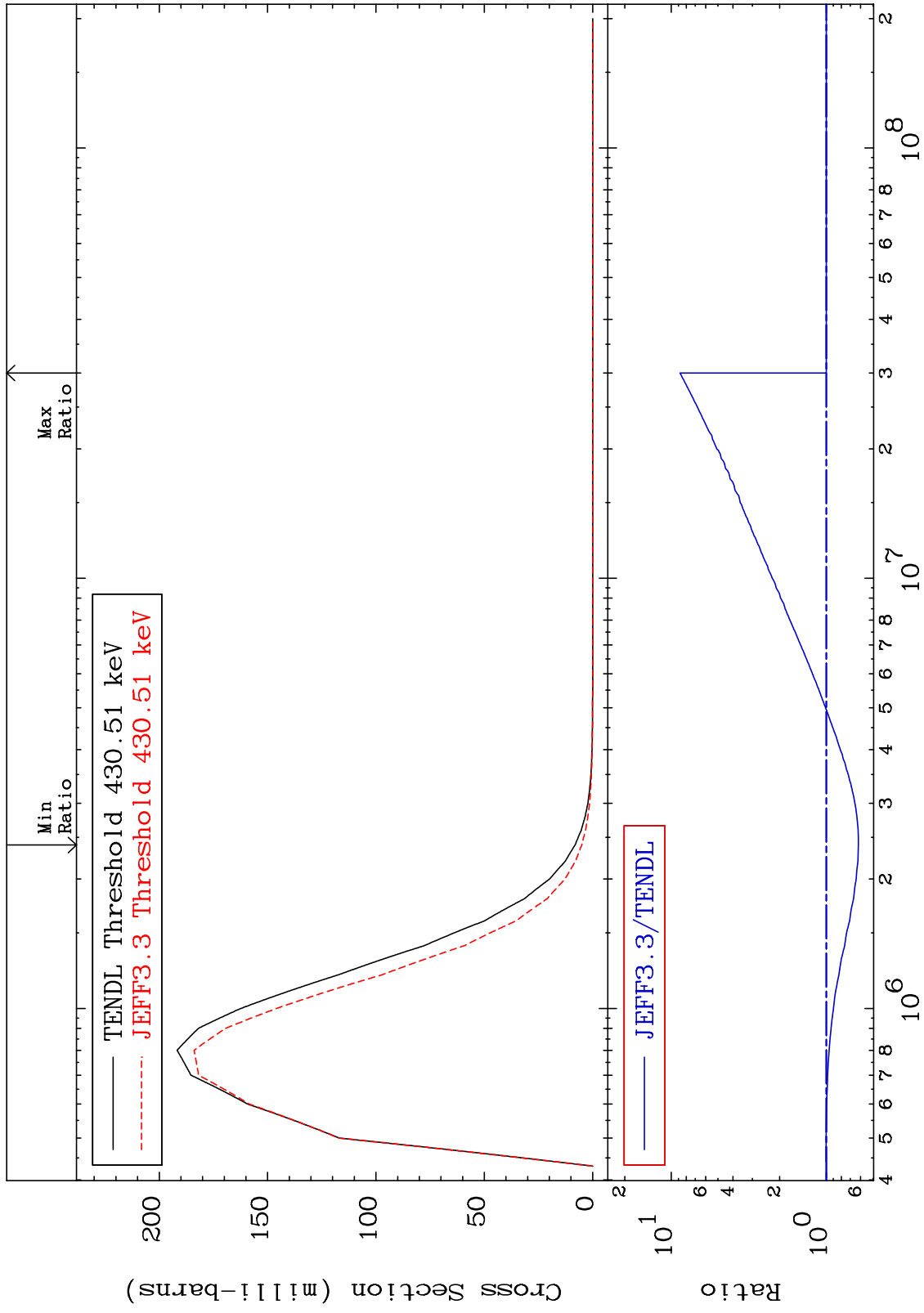
MAT 7326

MT= 74 (n,n') Level  
Cross Section

<sup>73</sup>Ta-180  
-39.46 To 804.6 %



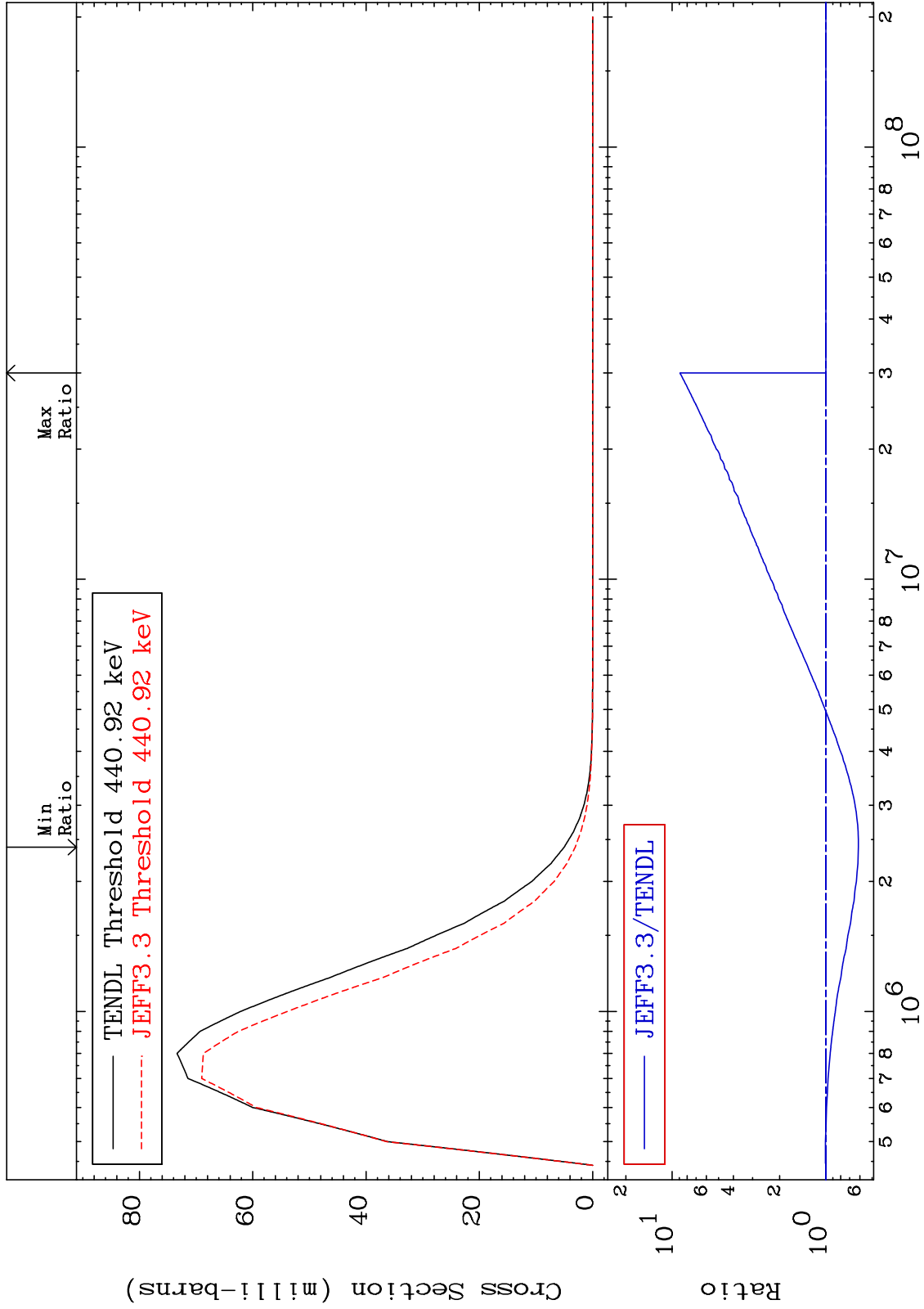
MAT 7326 MT= 75 (n,n') Level Cross Section 73-Ta-180 -37.97 To 778.7 %



MAT 7326

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

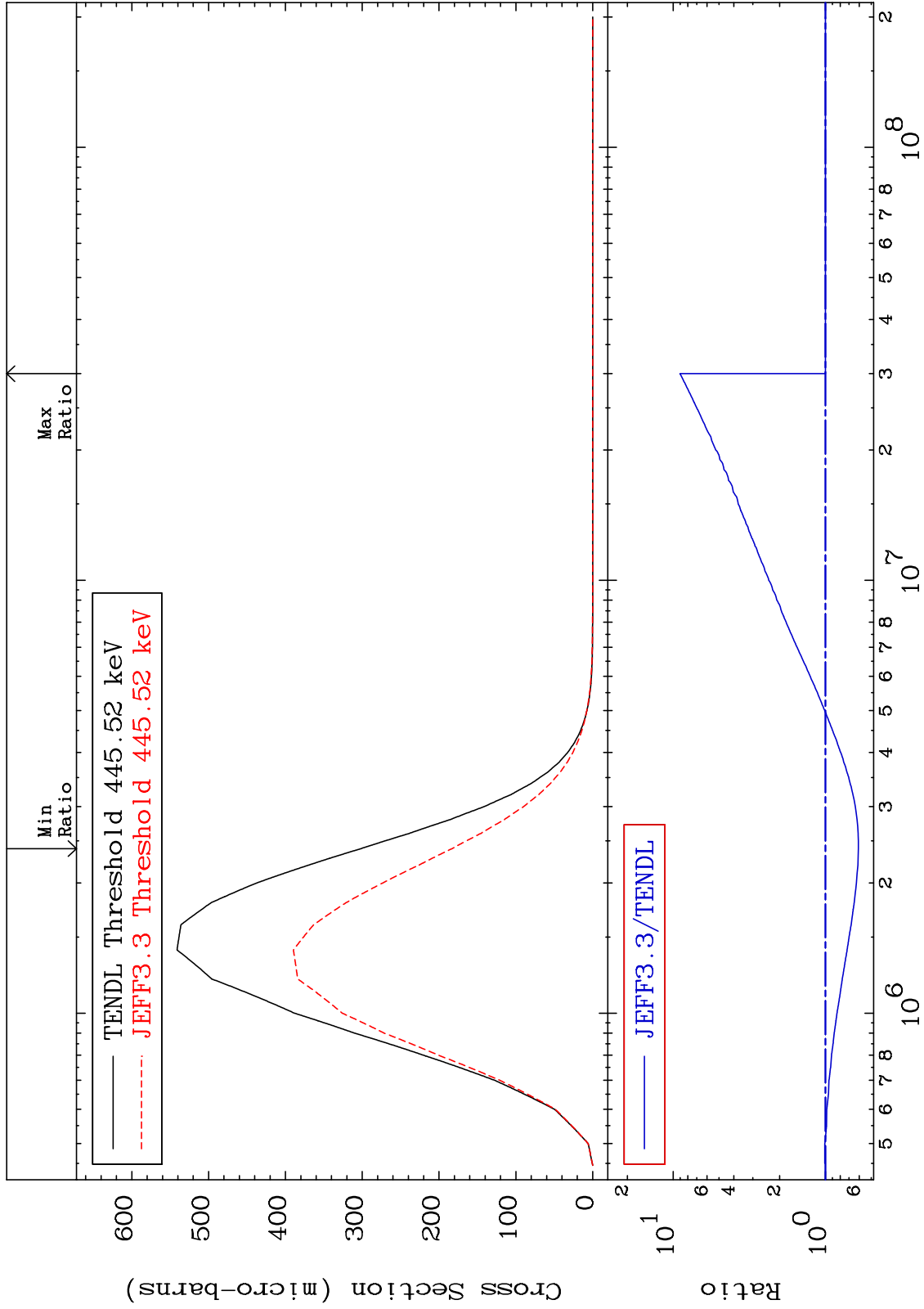
<sup>73</sup>Ta-180  
-38.63 To 789.5 %



MAT 7326

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

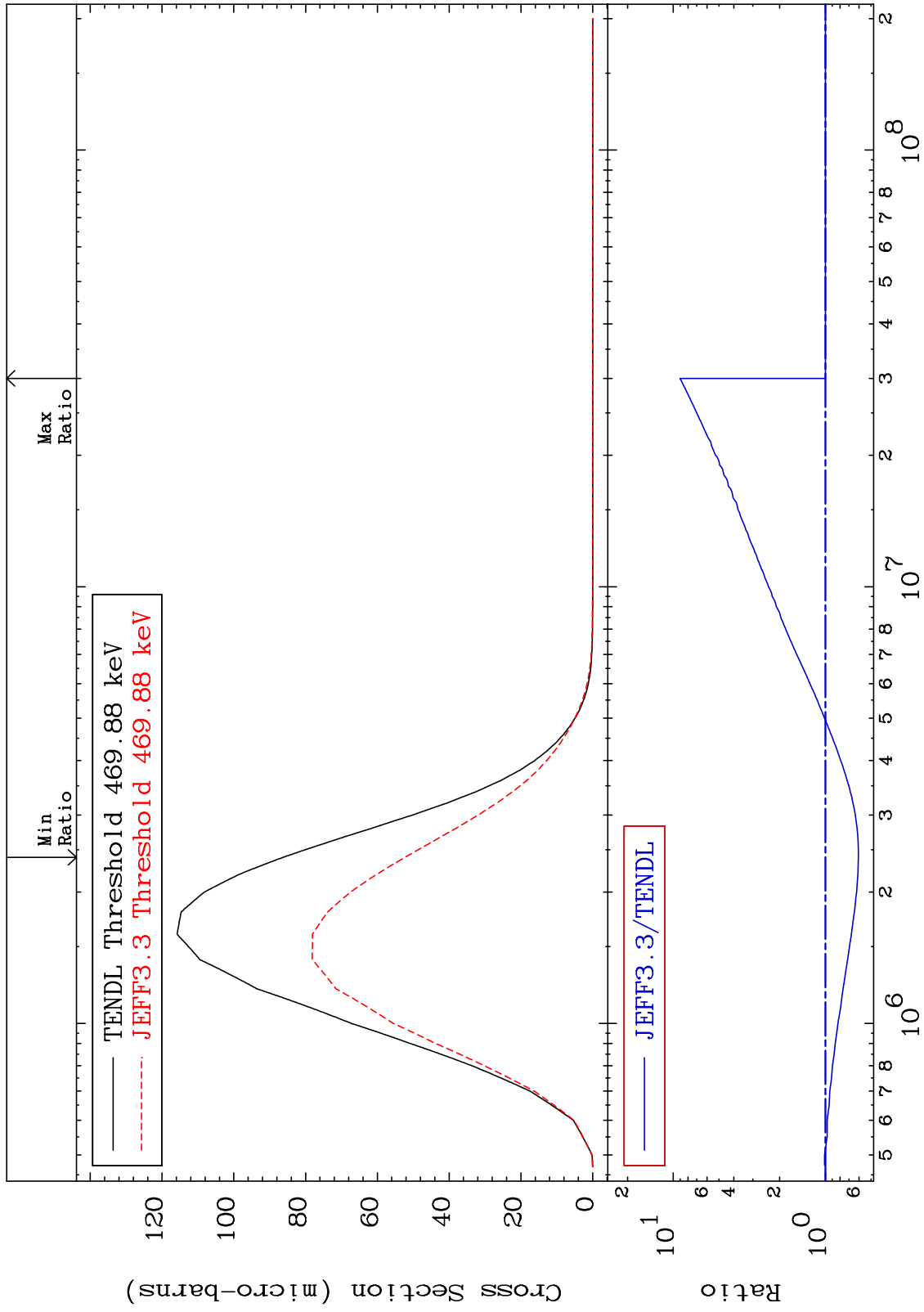
<sup>73</sup>Ta-180  
-39.29 To 801.1 %



MAT 7326

MT= 78 (n,n') Level  
Cross Section

<sup>73</sup>Ta-180  
-39.40 To 803.1 %



47

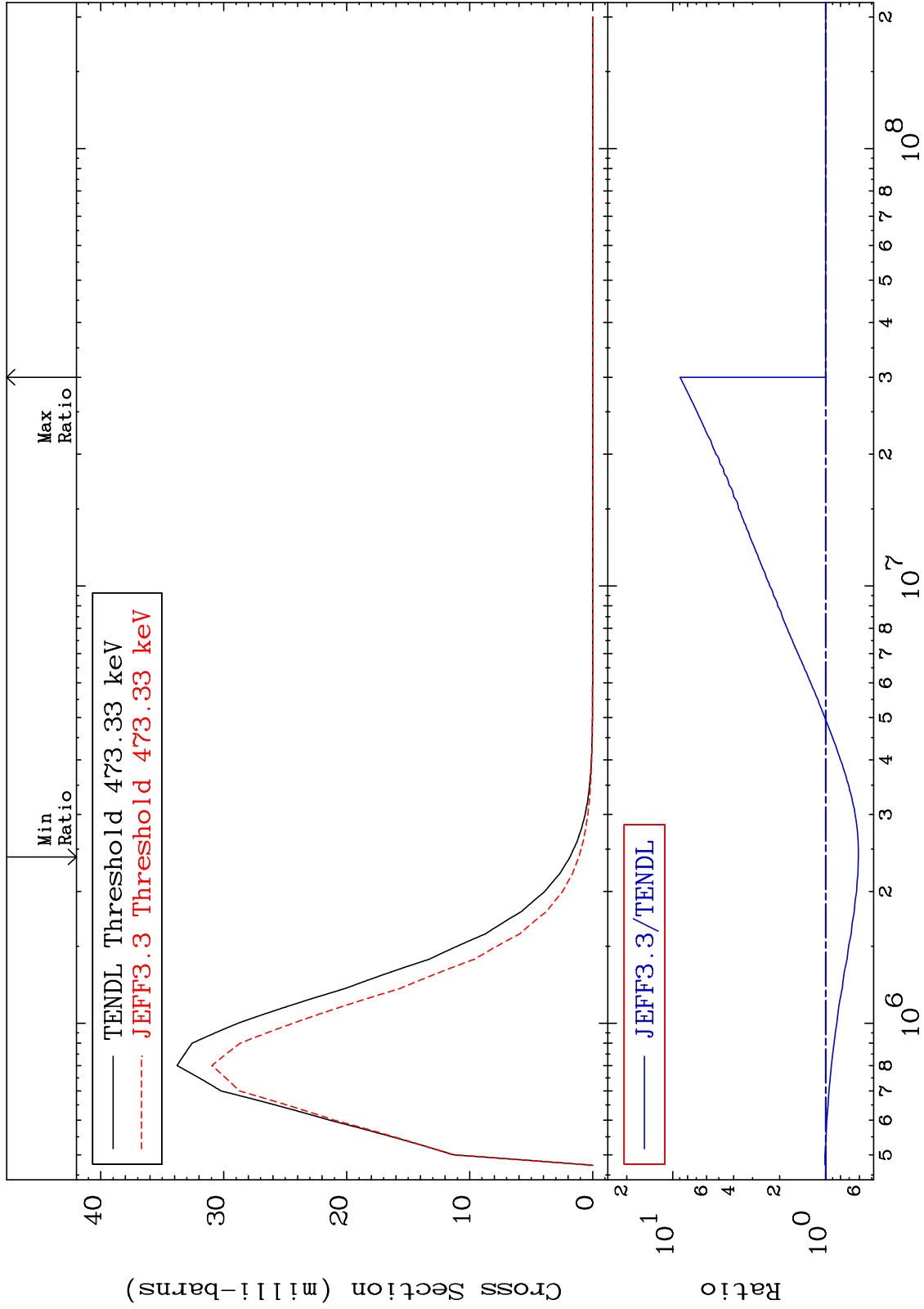
<sup>73</sup>Ta-180



MAT 7326

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

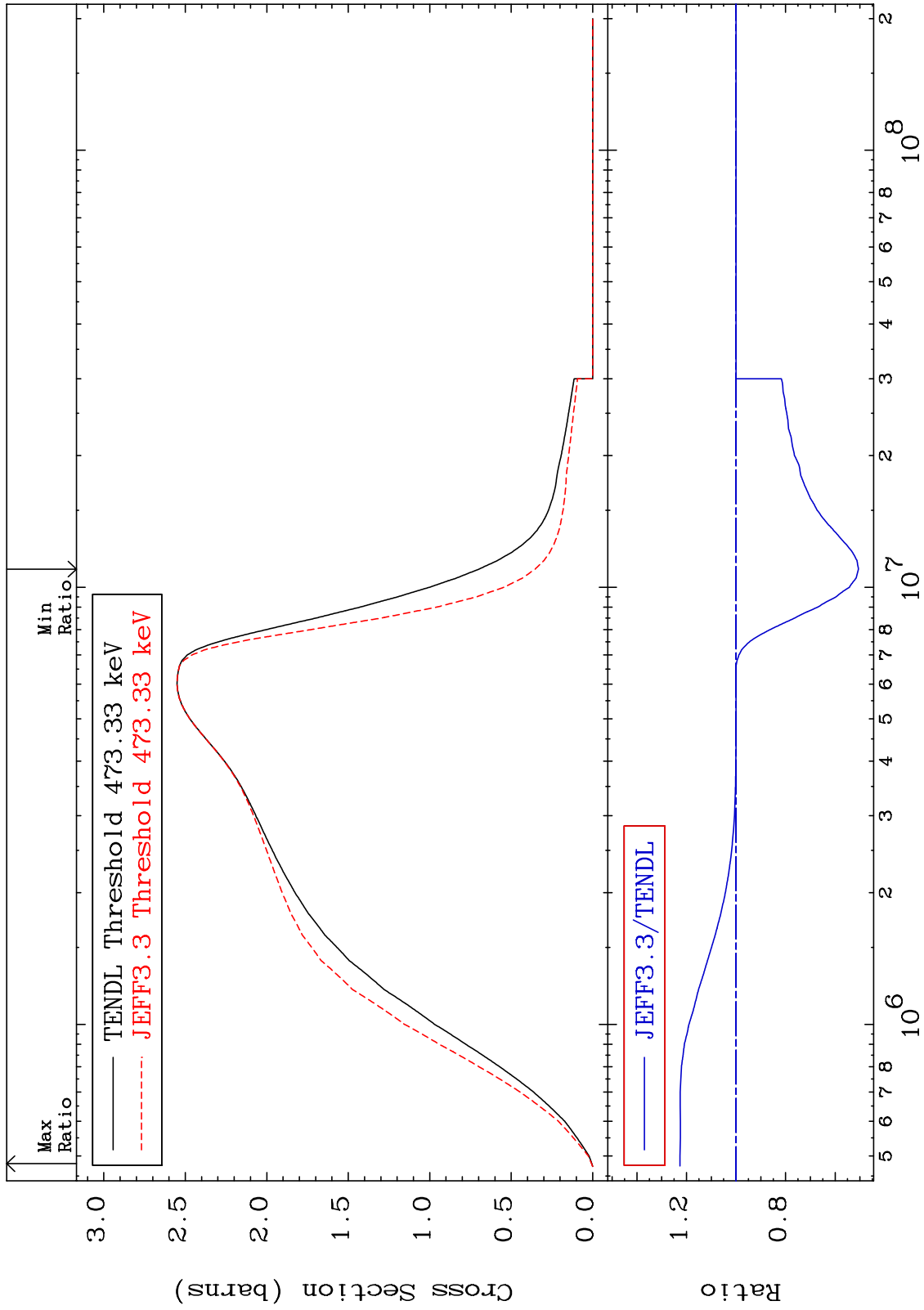
<sup>73</sup>Ta-180  
-39.01 To 795.9 %



MAT 7326

(n,n') Continuum  
Cross Section

<sup>73</sup>Ta-180  
-49.38 To 22.61 %



49

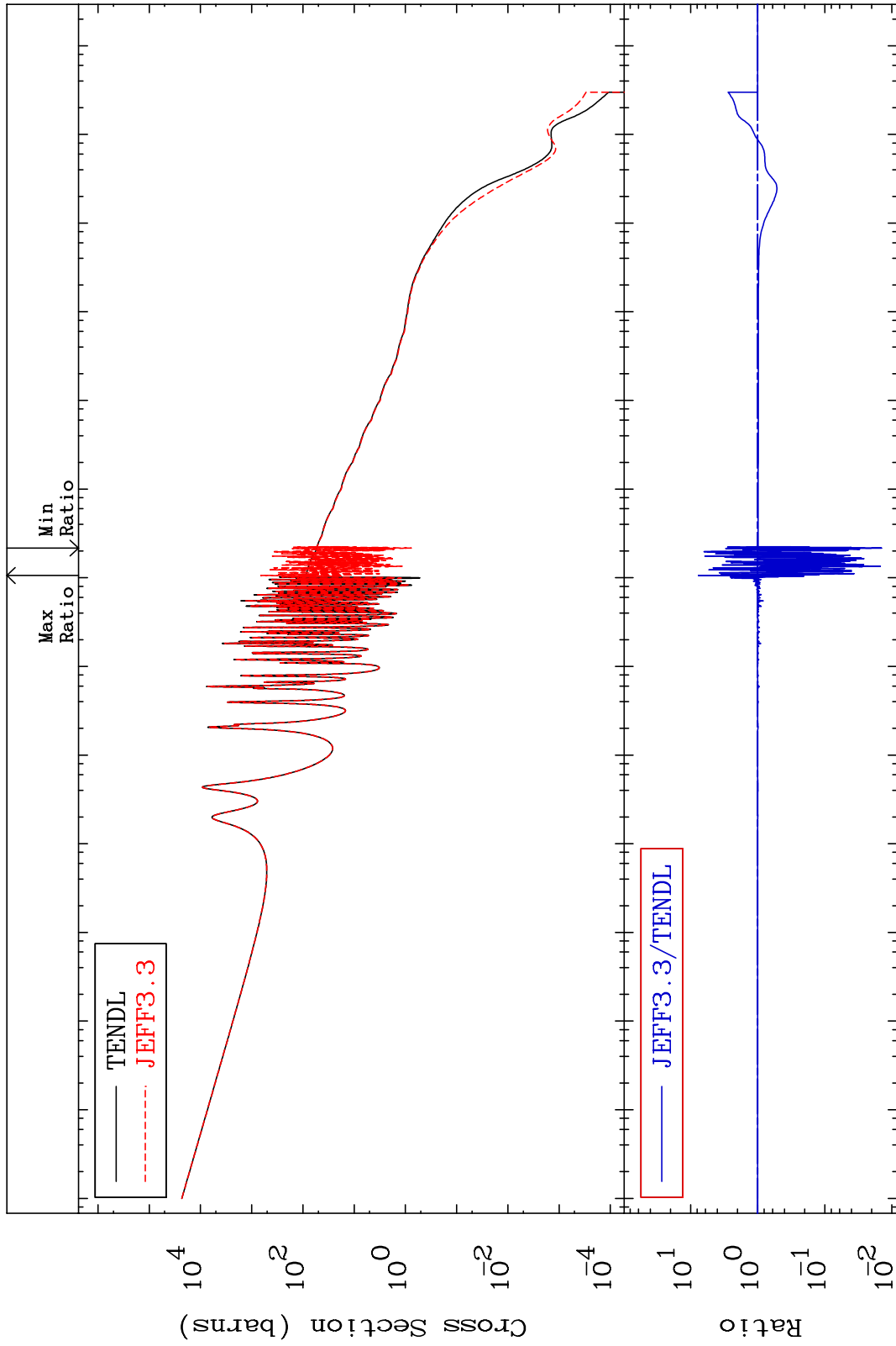
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

(n,  $\gamma$ )  
Cross Section

$^{73}\text{Ta-180}$   
-98.58 To 668.3 %



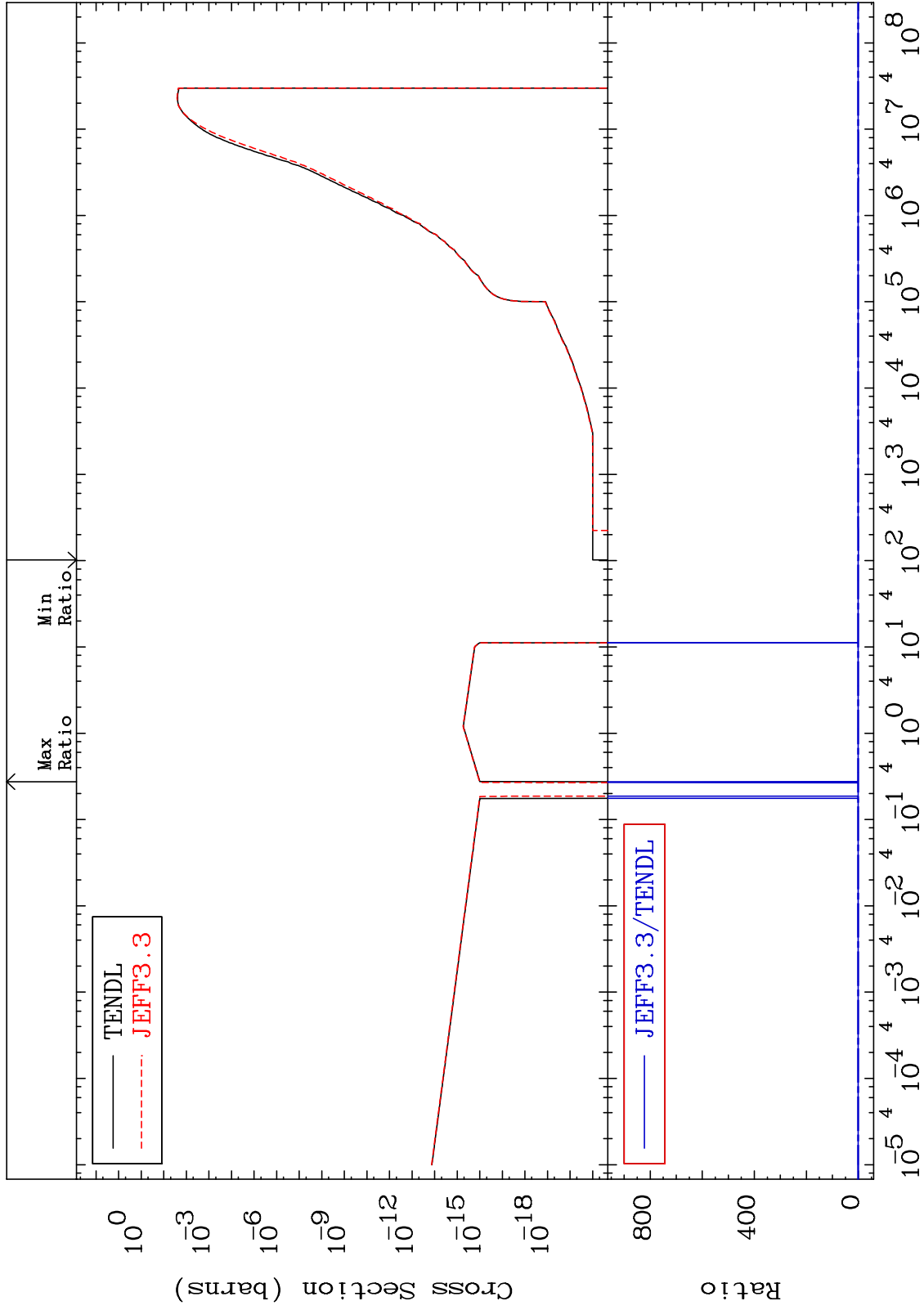
MAT 7326

(n, p)

<sup>73</sup>Ta-180

Cross Section

-100.0 To 9999. %



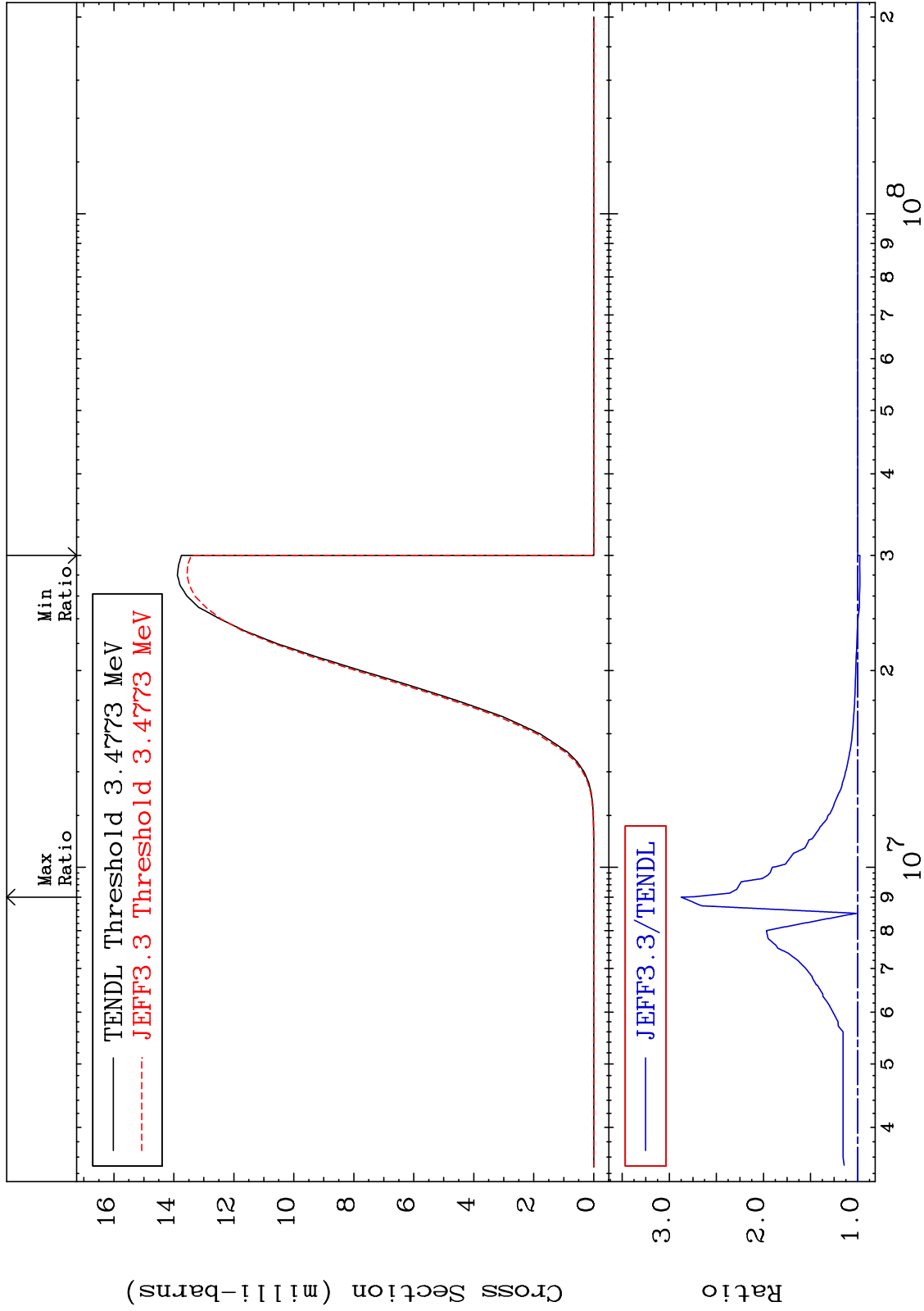
MAT 7326

(n, d)

<sup>73</sup>Ta-180

Cross Section

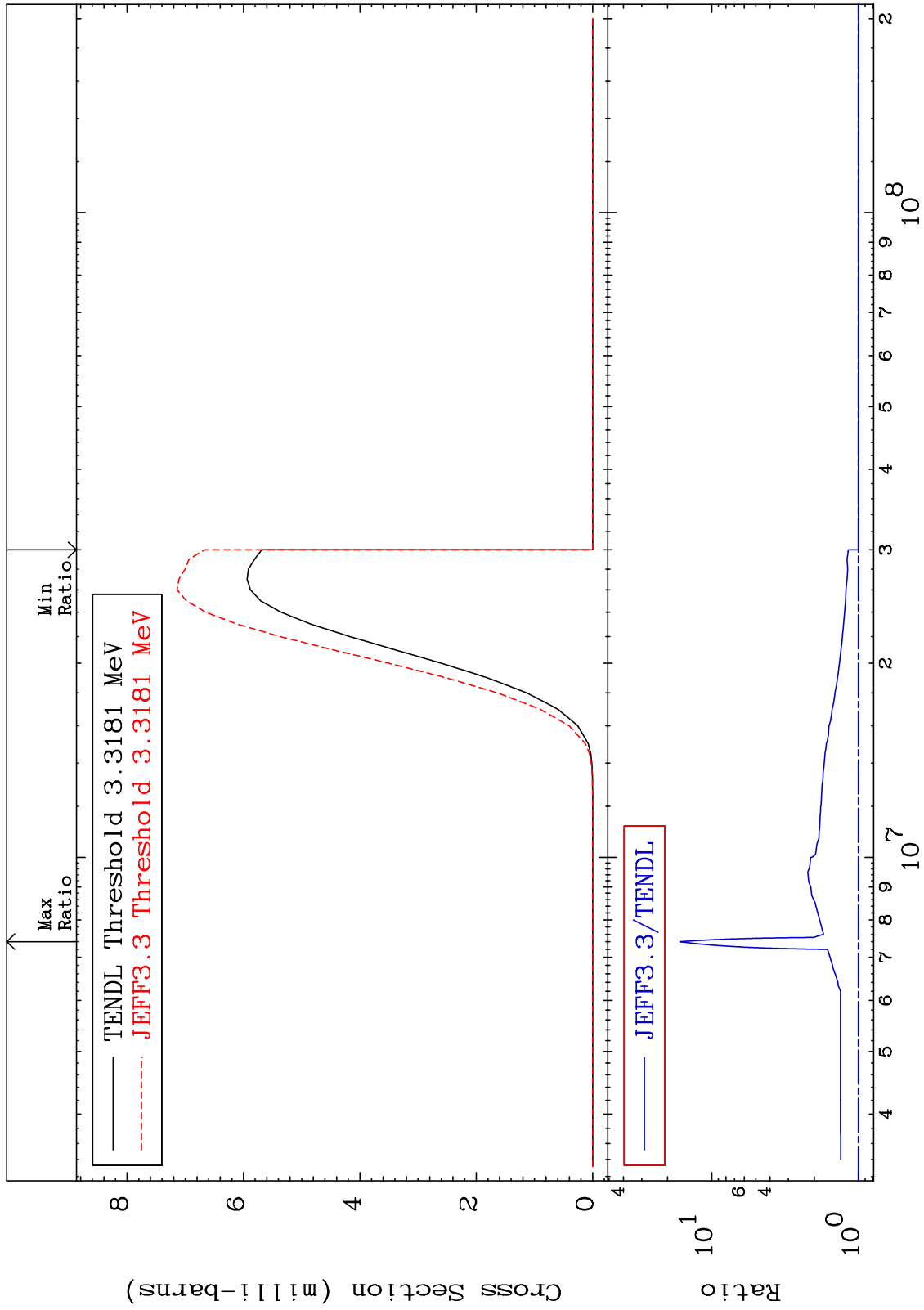
-2.379 To 187.3 %



MAT 7326

(n, t)  
Cross Section

$^{73}\text{Ta-180}$   
0.000 To 1544. %



$^{73}\text{Ta-180}$

Incident Energy (eV)

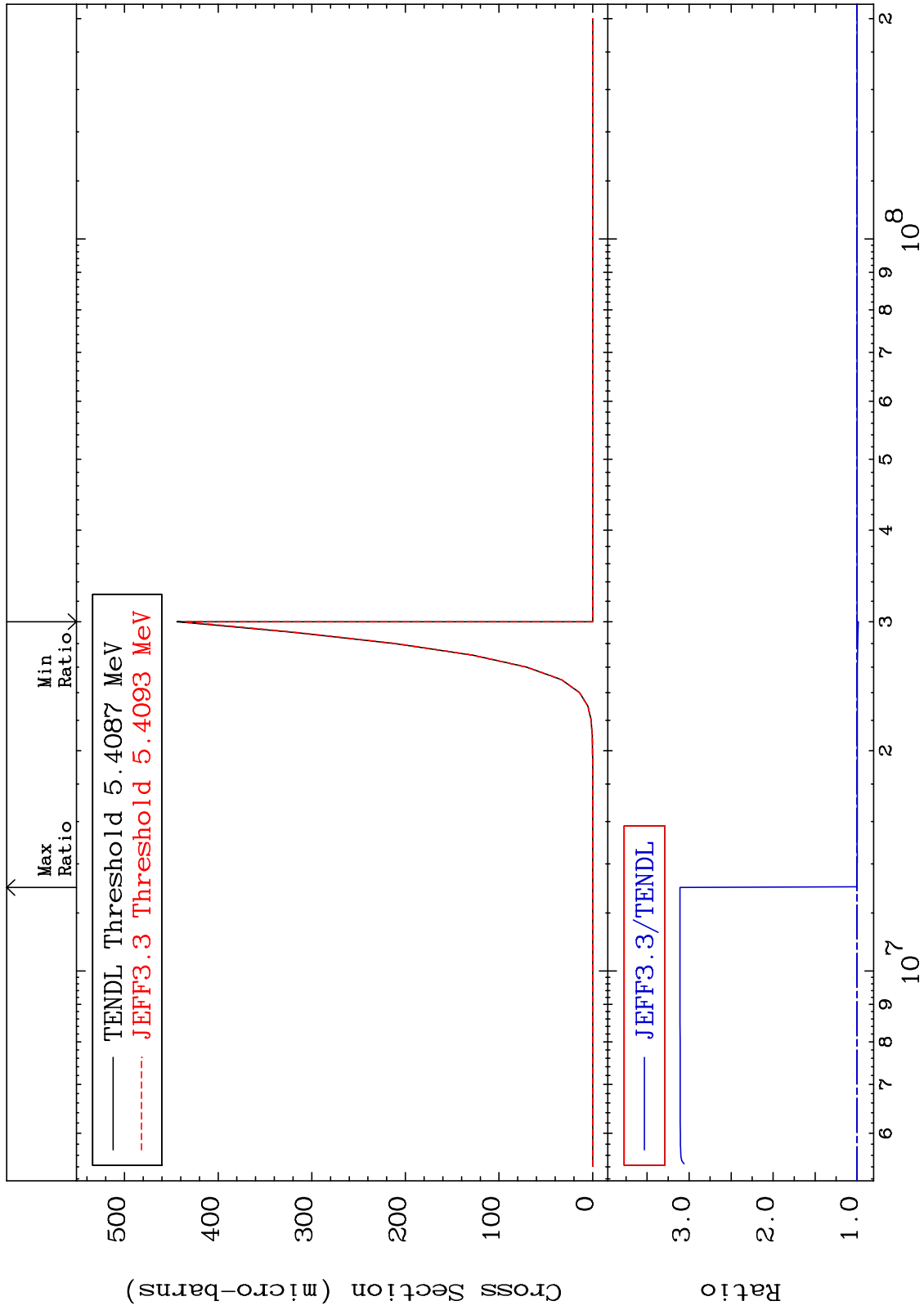
MAT 7326

(n, He-3)

<sup>73</sup>Ta-180

Cross Section

-1.498 To 210.8 %



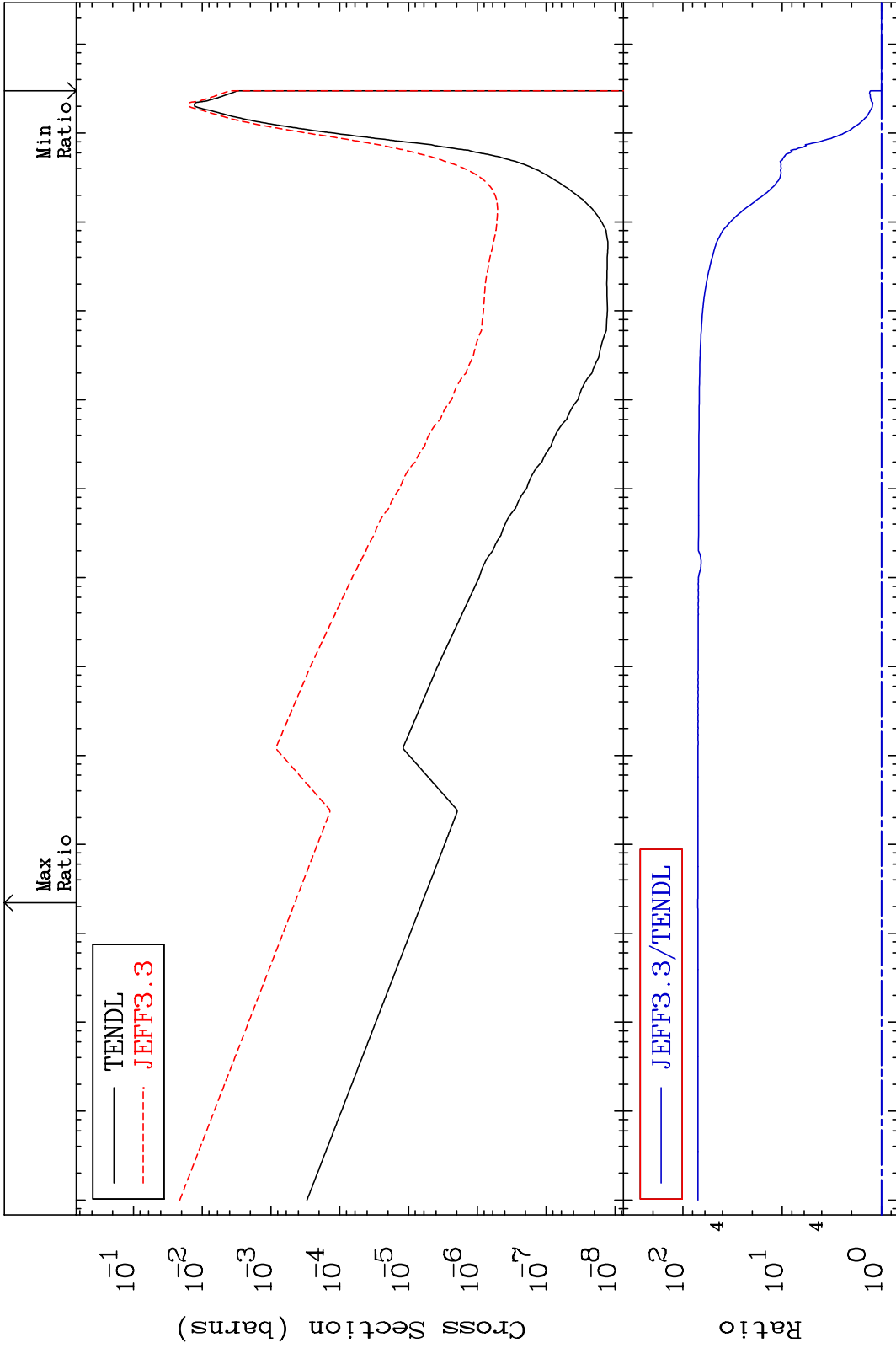
MAT 7326

(n,  $\alpha$ )

<sup>73</sup>Ta-180

Cross Section

0.000 To 6976. %



Incident Energy (eV) <sup>73</sup>Ta-180



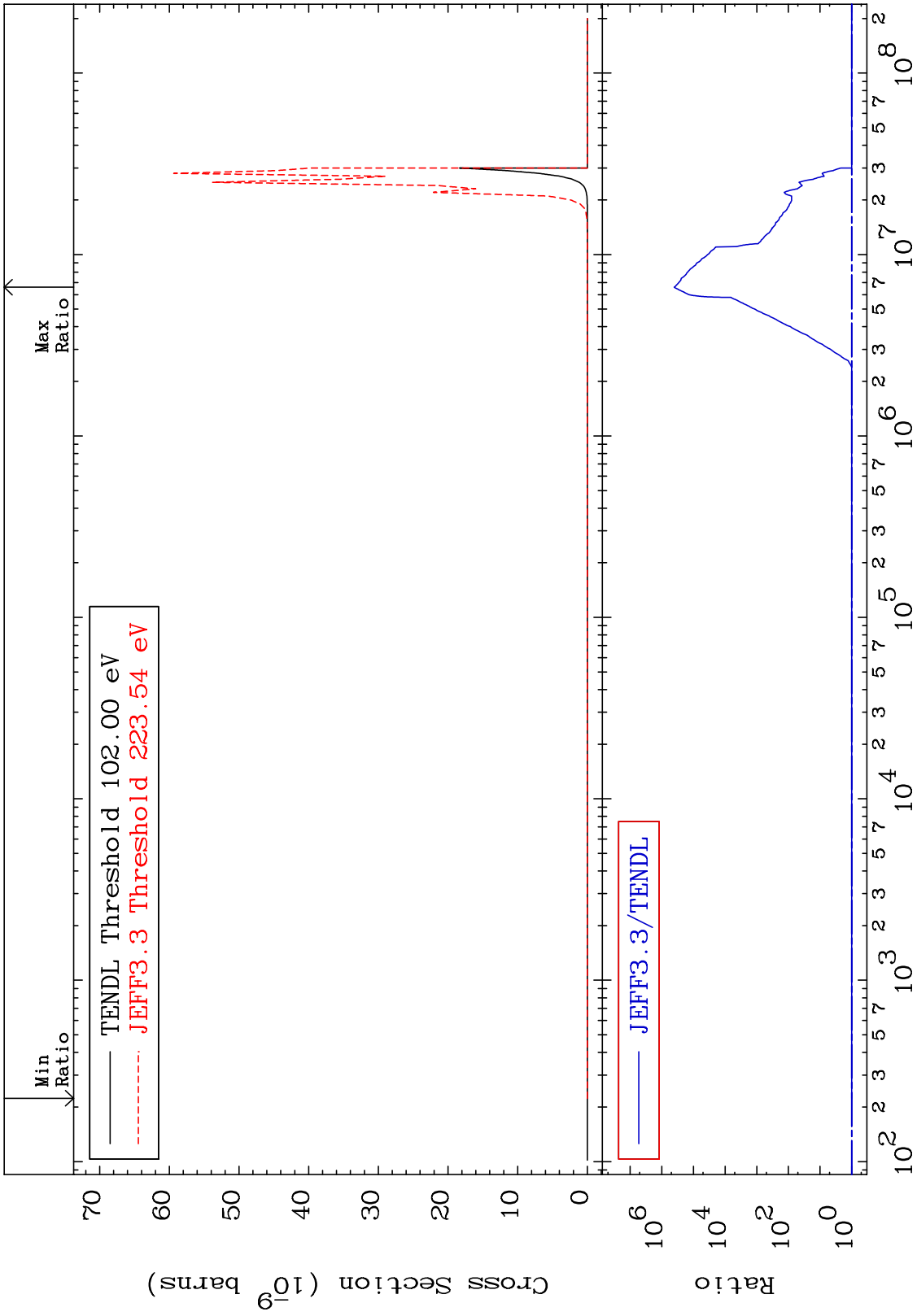
MAT 7326

(n, 2α)

73-Ta-180

Cross Section

0.000 To 9999. %



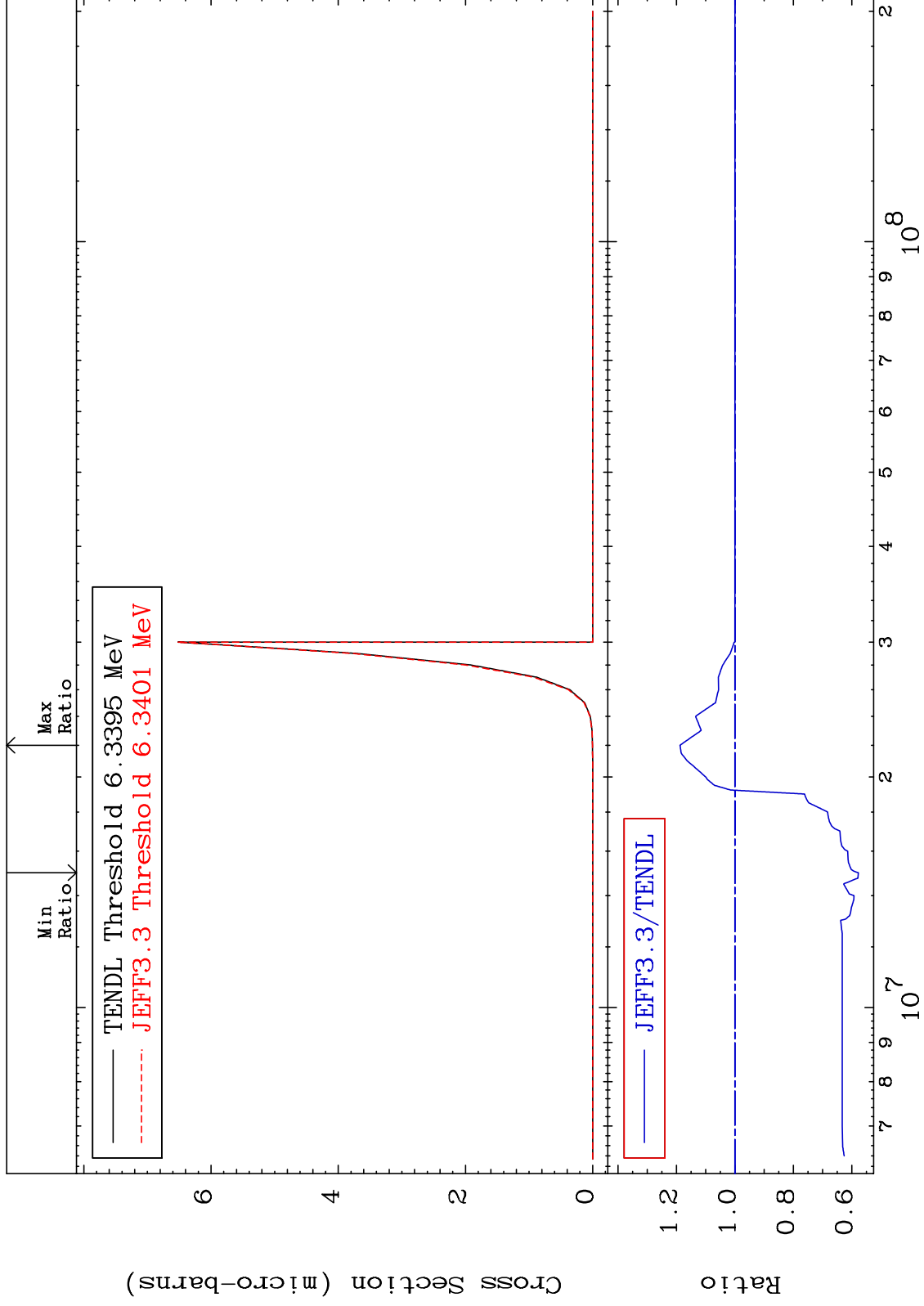
MAT 7326

(n,2p)

<sup>73</sup>Ta-180

Cross Section

-42.22 To 18.79 %



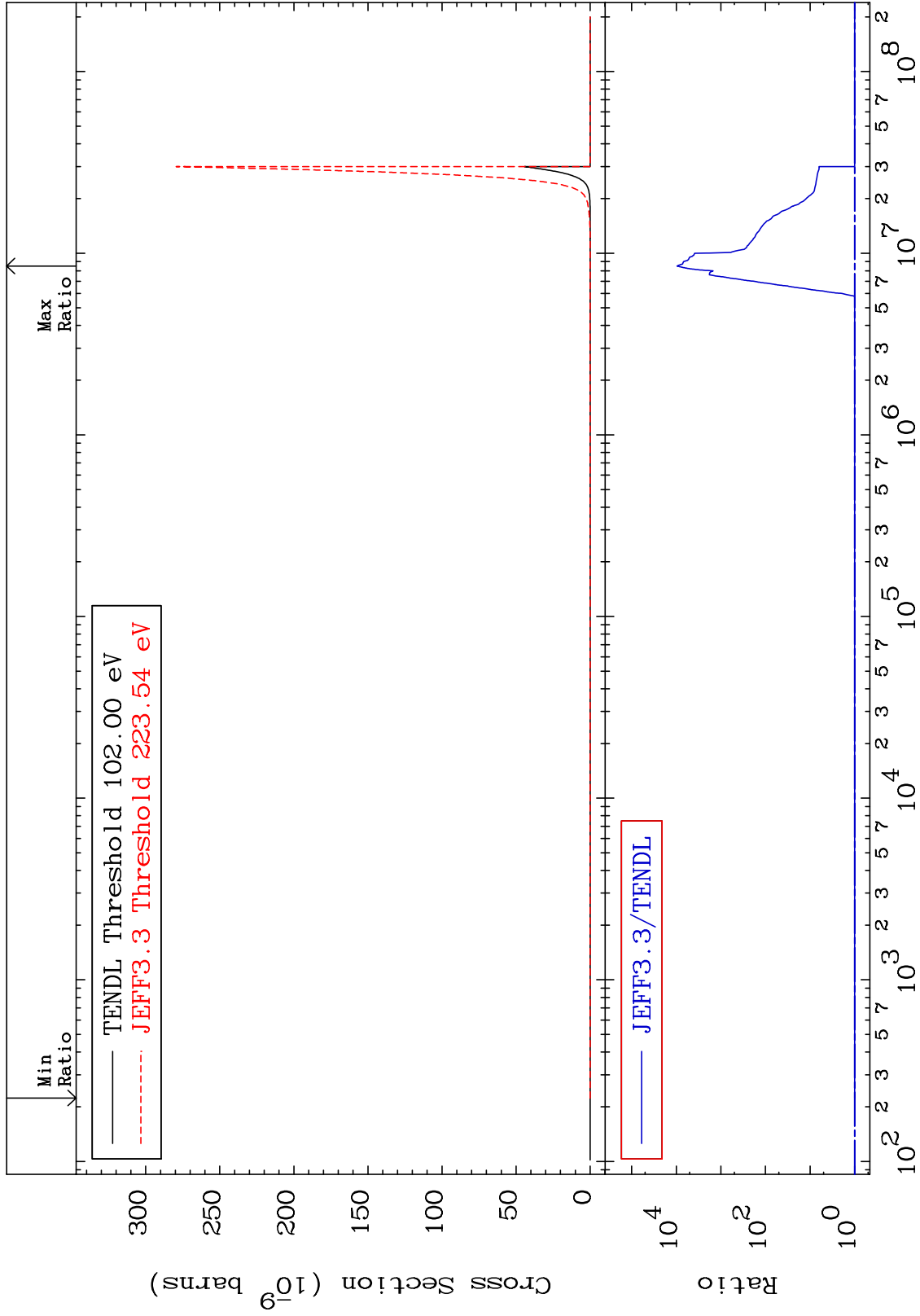
MAT 7326

(n,p)  $\alpha$

<sup>73</sup>Ta-180

Cross Section

0.000 To 9999. %



58

Incident Energy (eV)

<sup>73</sup>Ta-180

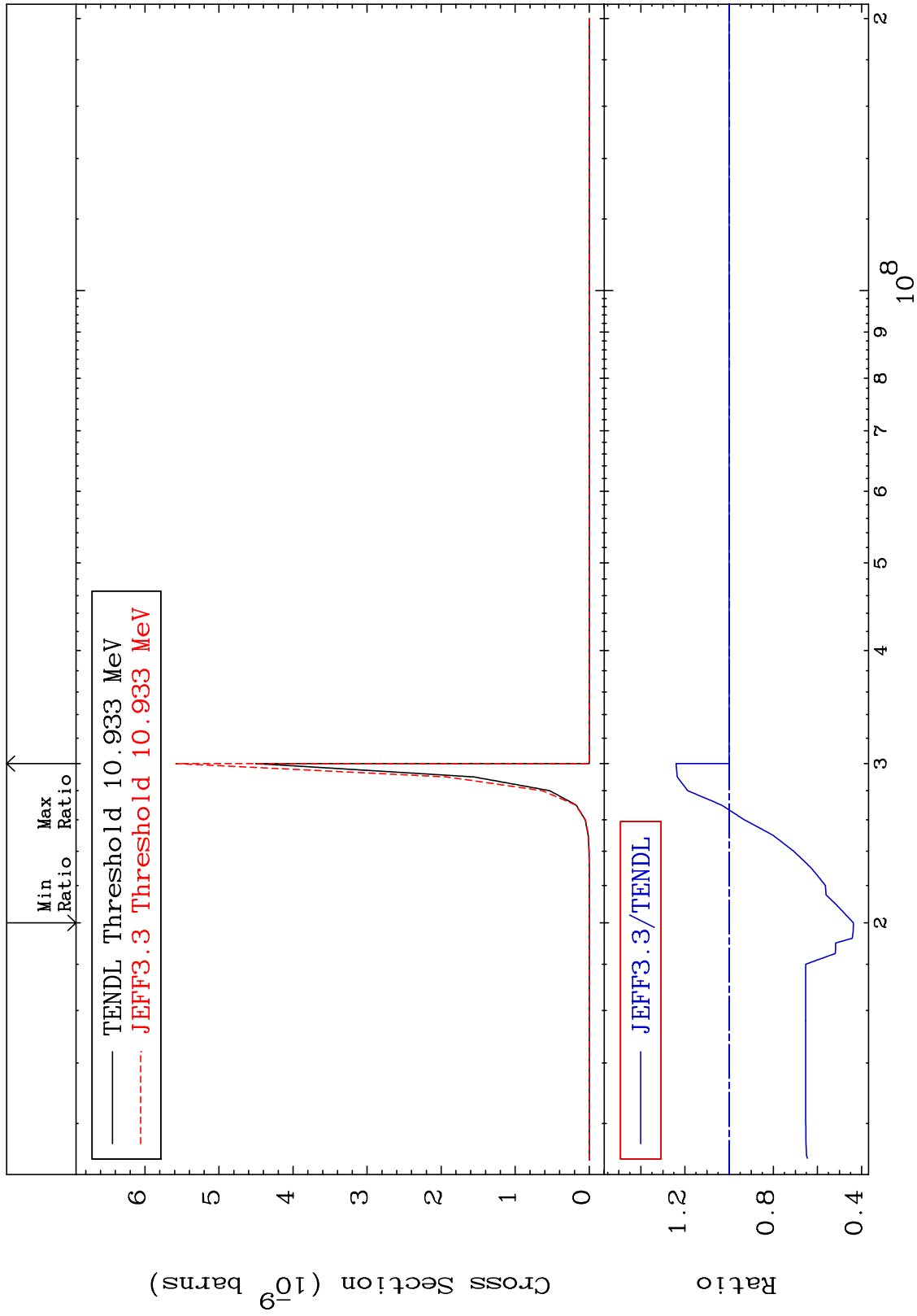
MAT 7326

(n,p) d

<sup>73</sup>Ta-180

Cross Section

-56.28 To 24.03 %



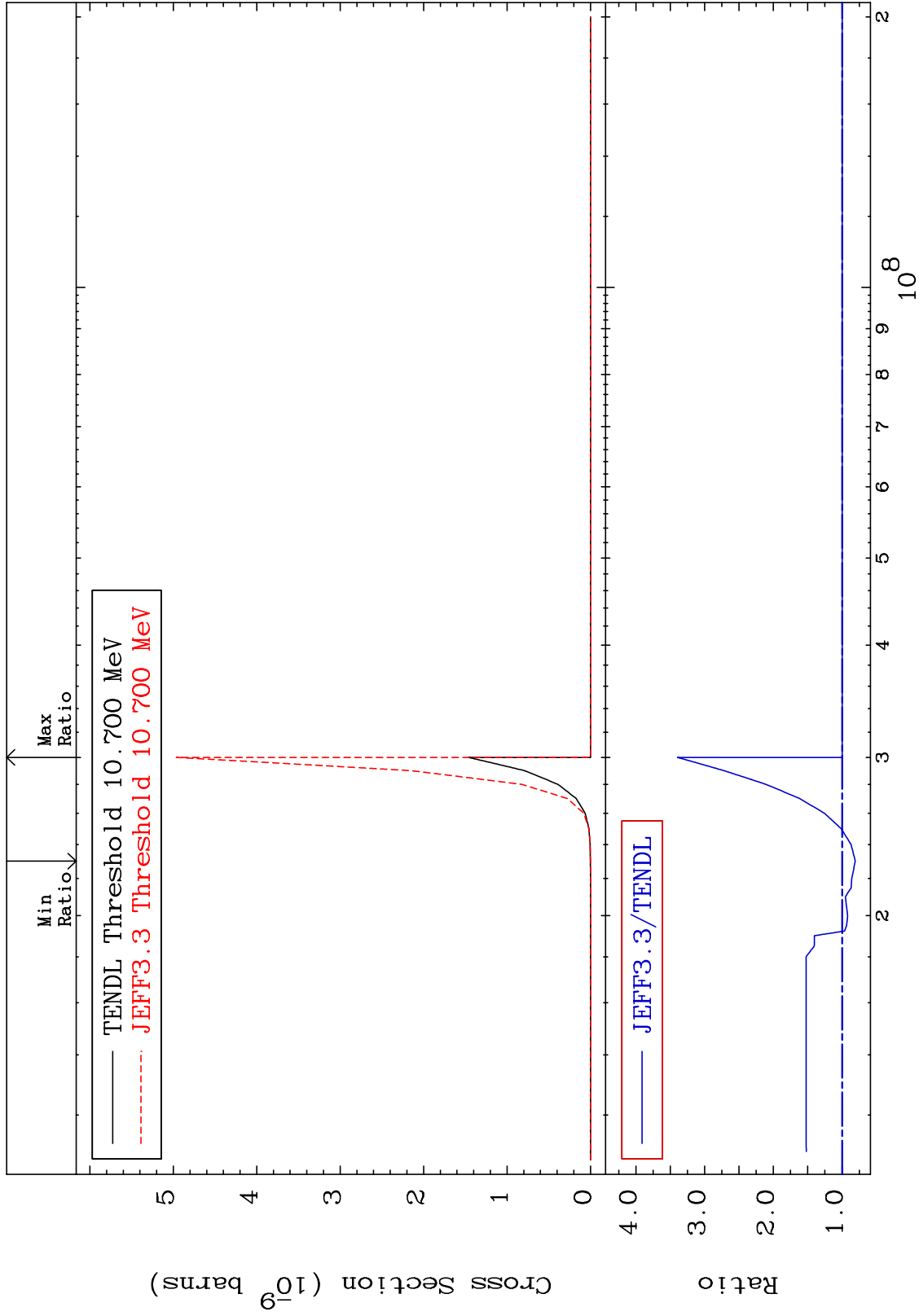
MAT 7326

(n,p) t

<sup>73</sup>Ta-180

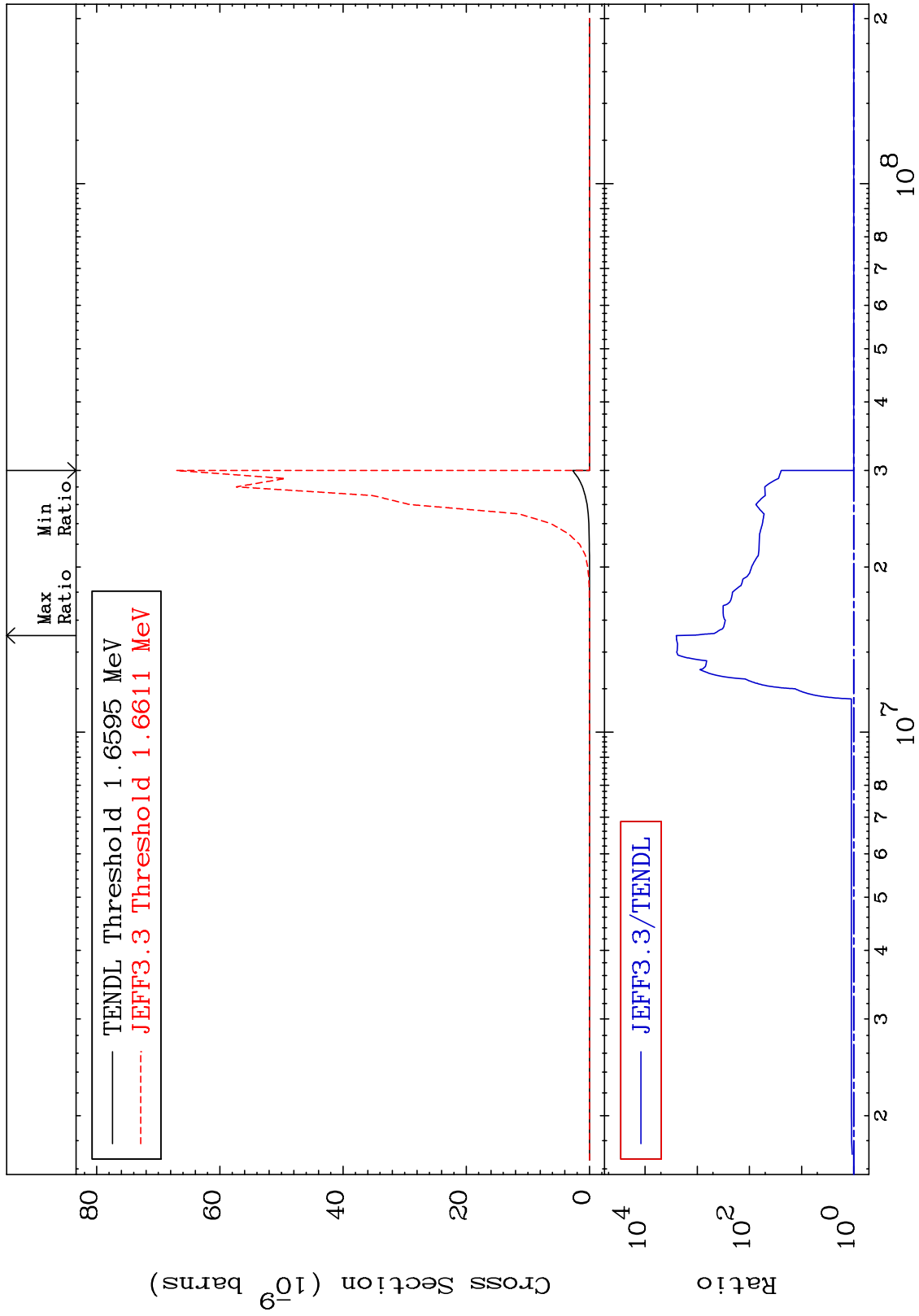
Cross Section

-19.19 To 239.4 %



MAT 7326

(n,d)  $\alpha$   
Cross Section  
0.000 To 9999. %  
 $^{73}\text{Ta-180}$



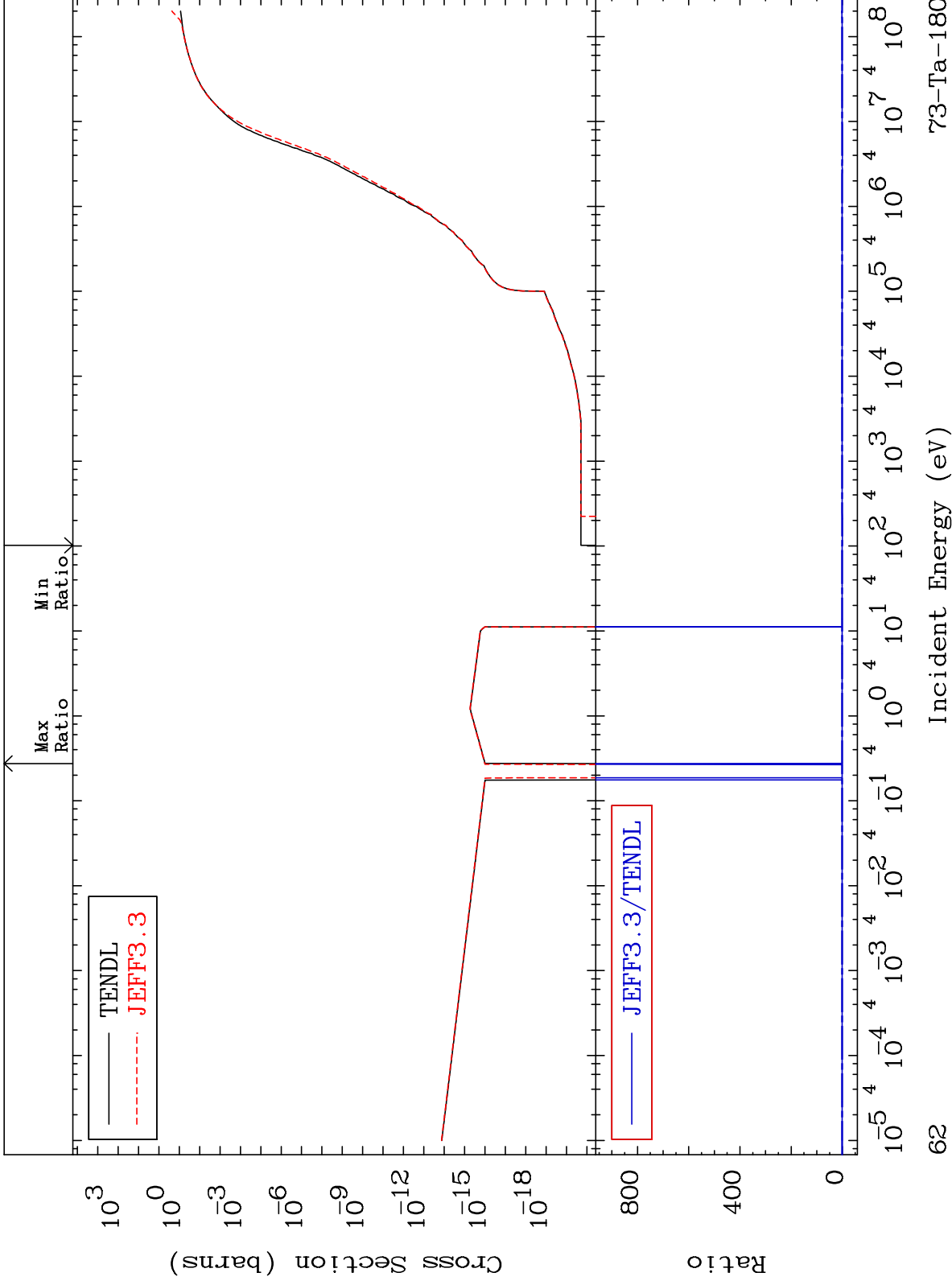
61

Incident Energy (eV)  
 $^{73}\text{Ta-180}$

MAT 7326

### Hydrogen Production Cross Section

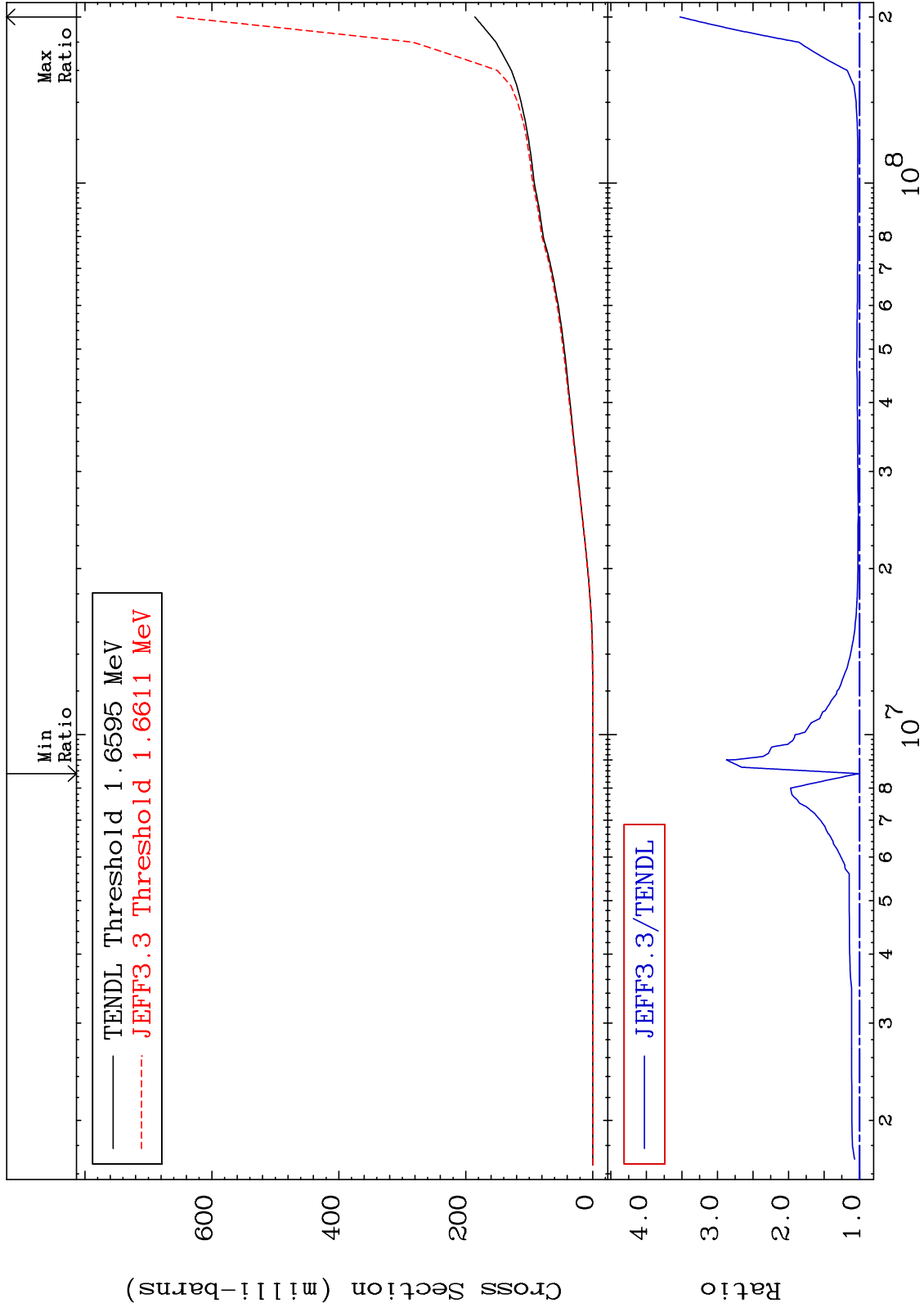
<sup>73</sup>Ta-180  
-100.0 To 9999. %



MAT 7326

Deuterium Production  
Cross Section

$^{73}\text{Ta-180}$   
1.623 To 252.7 %

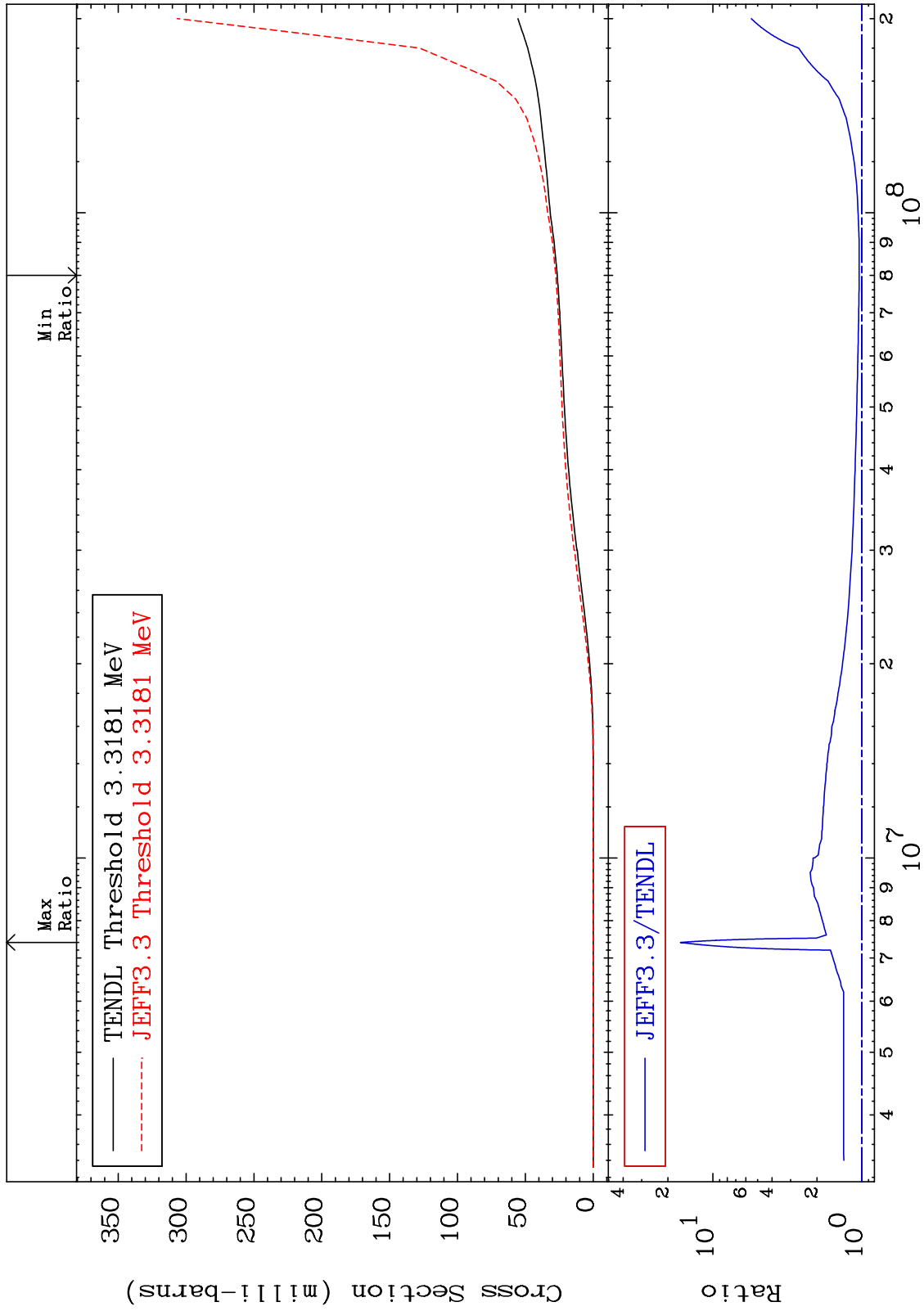




MAT 7326

Tritium Production  
Cross Section

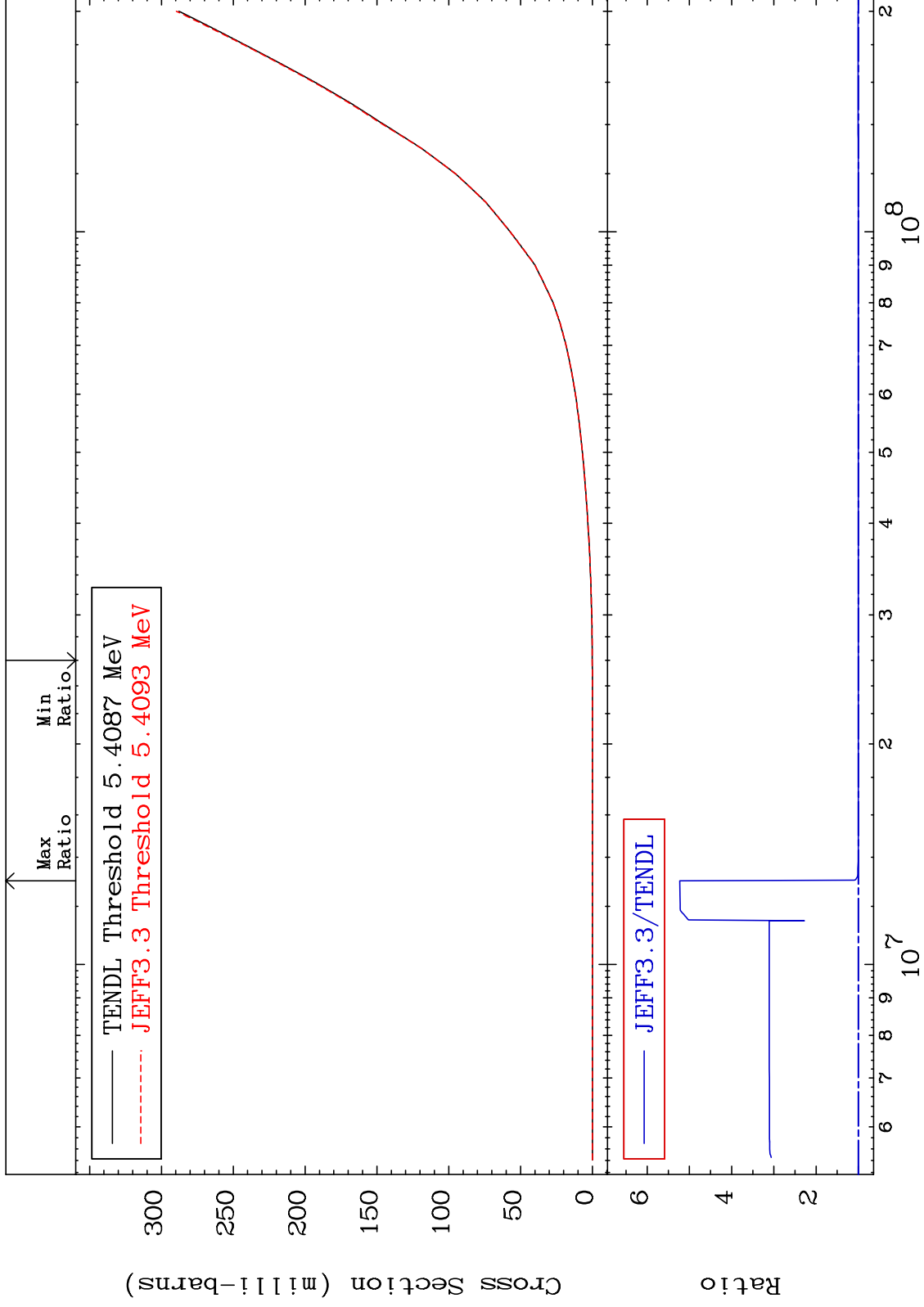
$^{73}\text{Ta-180}$   
4.082 To 1544. %



MAT 7326

He-3 Production  
Cross Section

$^{73}\text{Ta-180}$   
-0.062 To 422.8 %



65

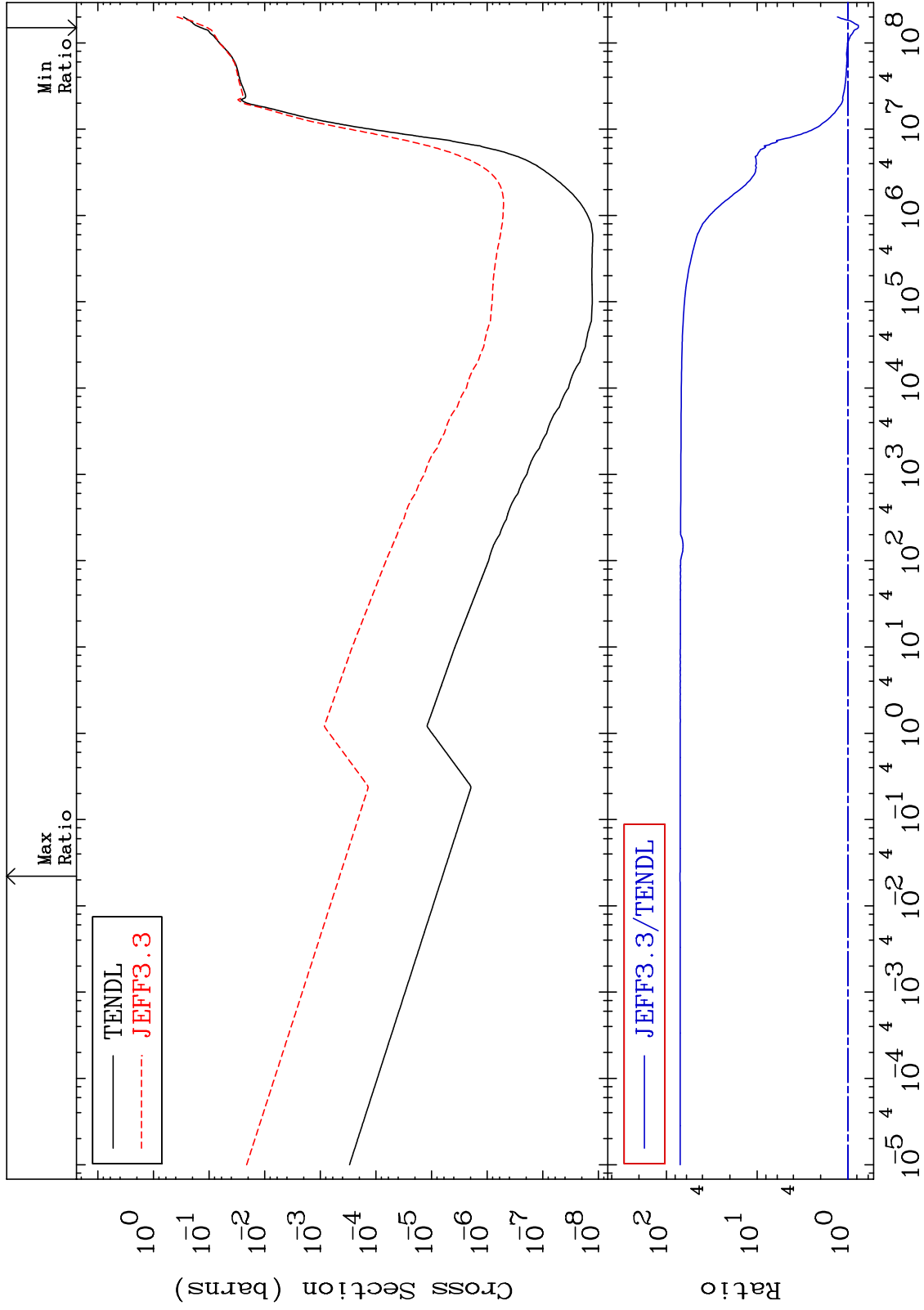
Incident Energy (eV)

$^{73}\text{Ta-180}$

MAT 7326

He-4 Production  
Cross Section

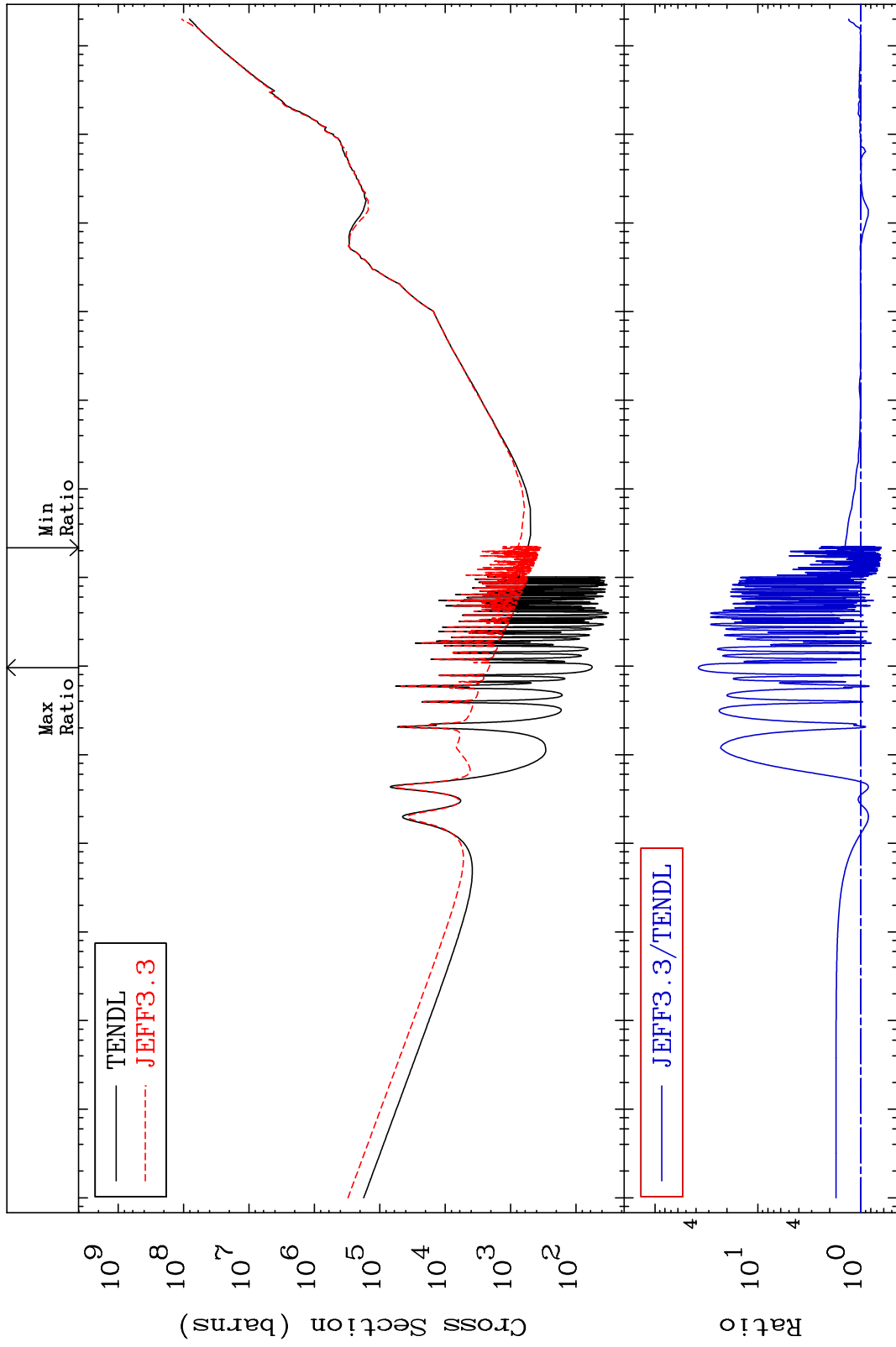
73-Ta-180  
-23.23 To 6976. %



MAT 7326

Kerma total (eV-barns)  
Cross Section

<sup>73</sup>Ta-180  
-37.11 To 3692. %



67

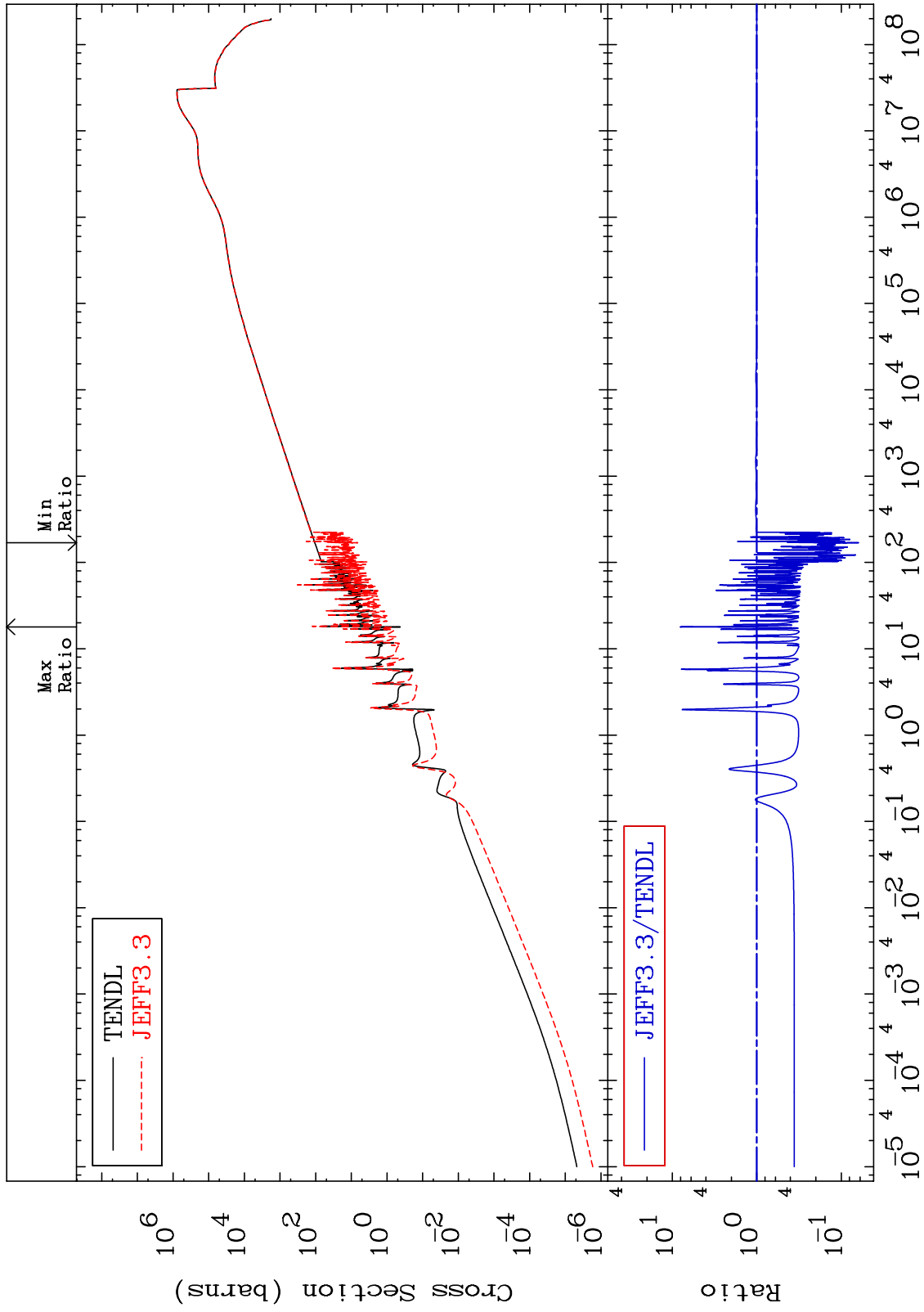
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

Kerma elastic  
Cross Section

<sup>73</sup>Ta-180  
-93.73 To 711.5 %



68

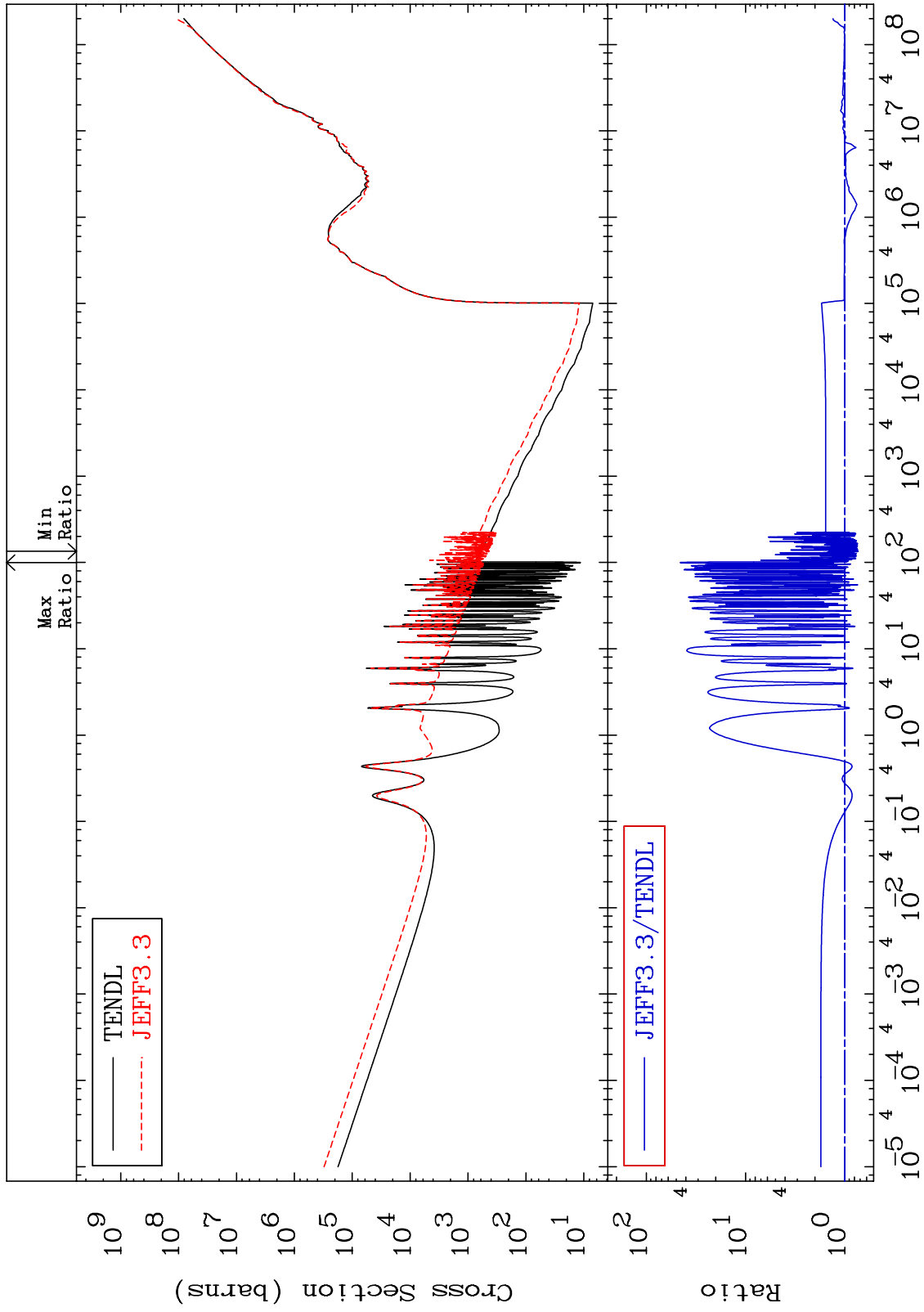
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

Kerma non-elastic (all but mt2)  
Cross Section

<sup>73</sup>Ta-180  
-27.18 To 4469. %



69

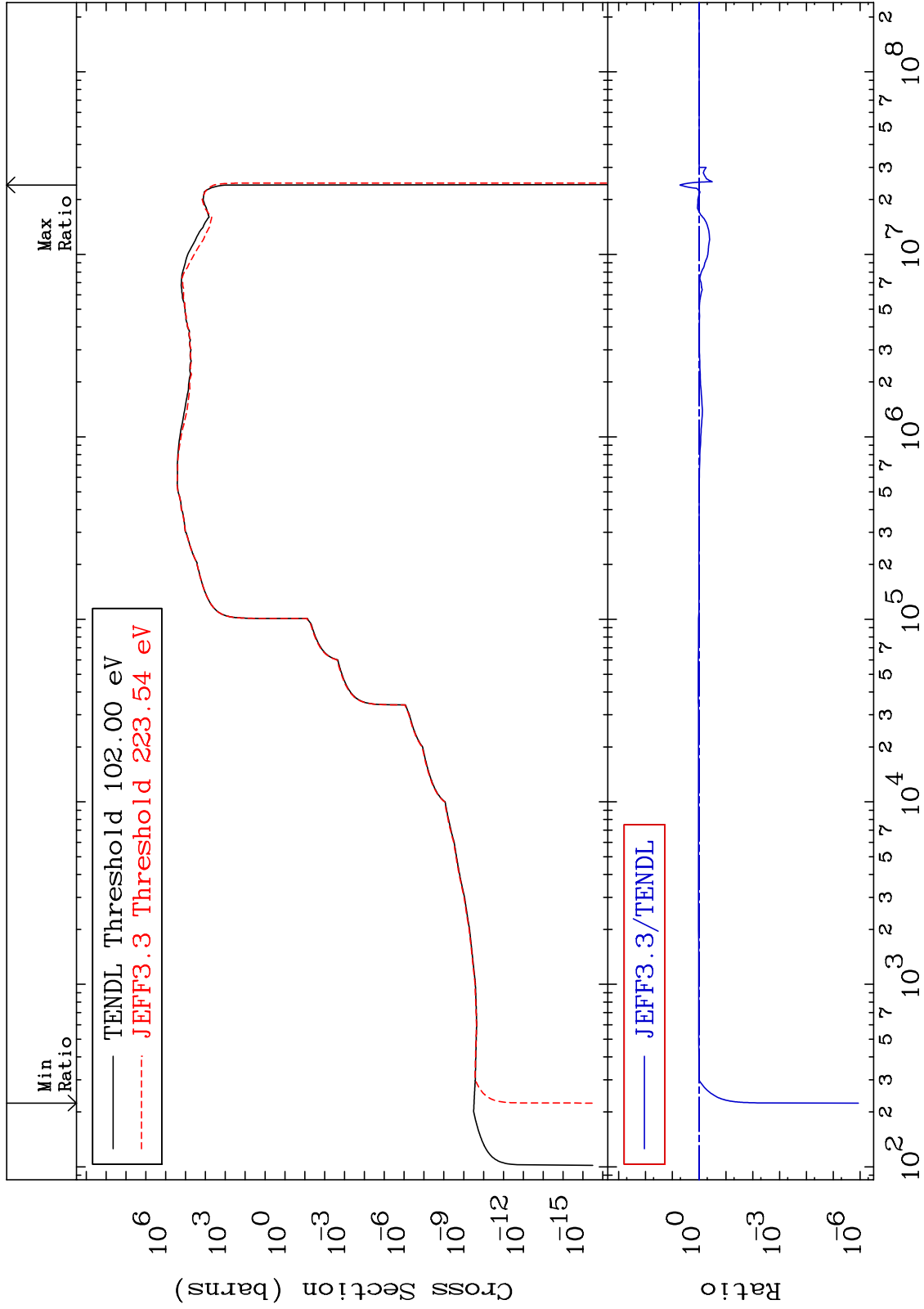
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

Kerma inelastic (mt51-91)  
Cross Section

<sup>73</sup>Ta-180  
-100.0 To 416.3 %



70

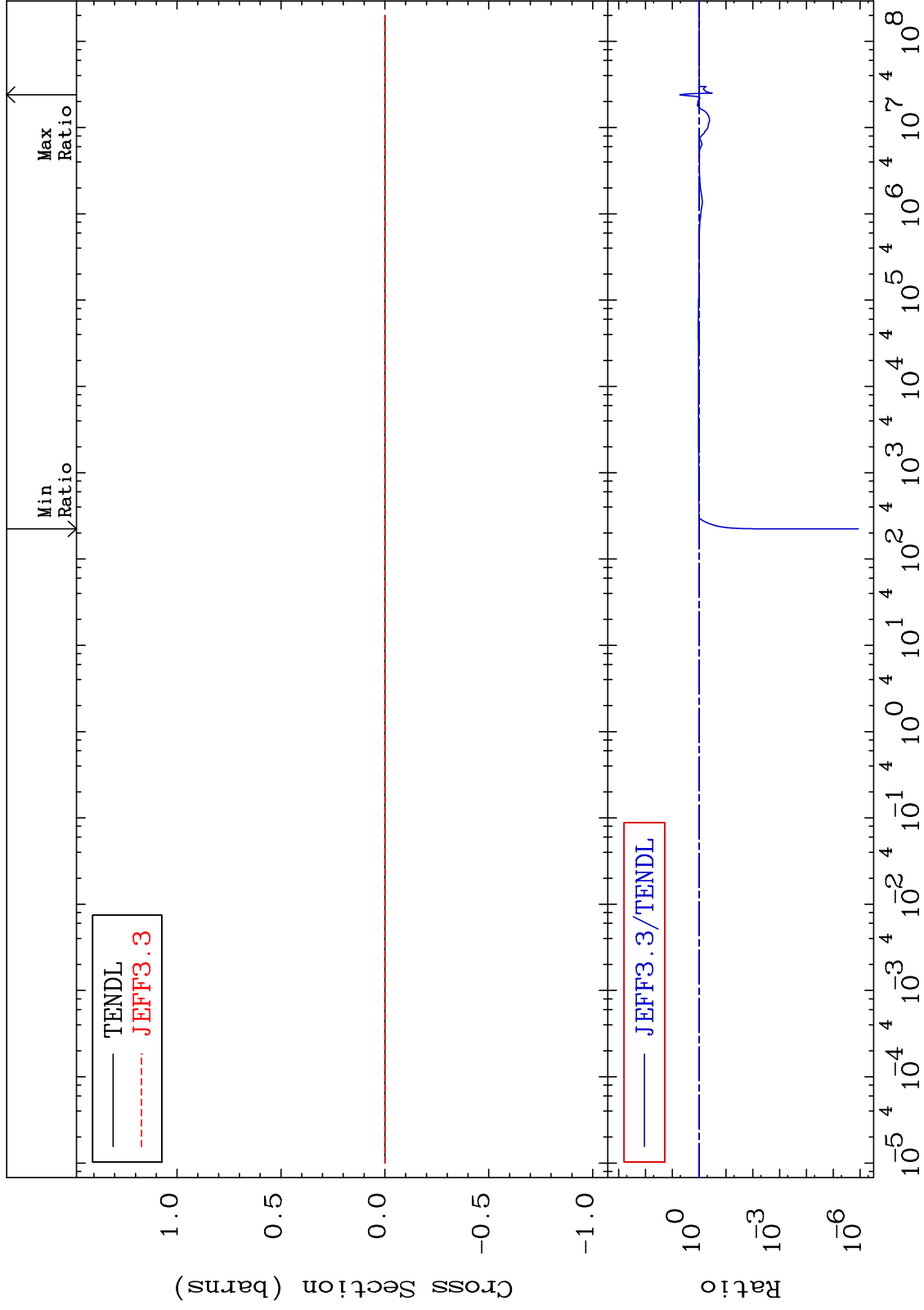
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

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

73-Ta-180  
-100.0 To 416.3 %



71

Incident Energy (eV)

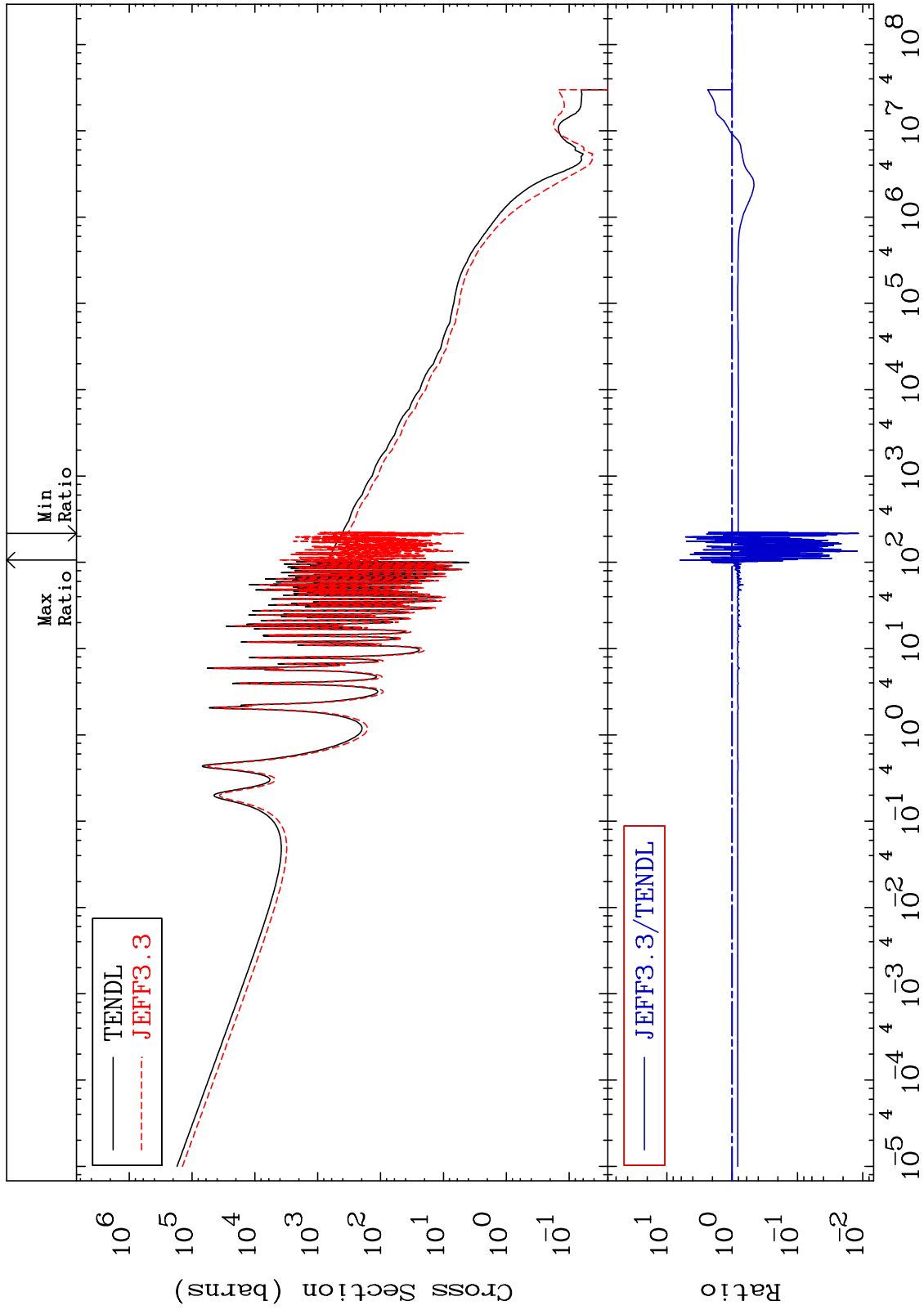
73-Ta-180



MAT 7326

Kerma capture (mt102)  
Cross Section

73-Ta-180  
-98.83 To 529.1 %



72

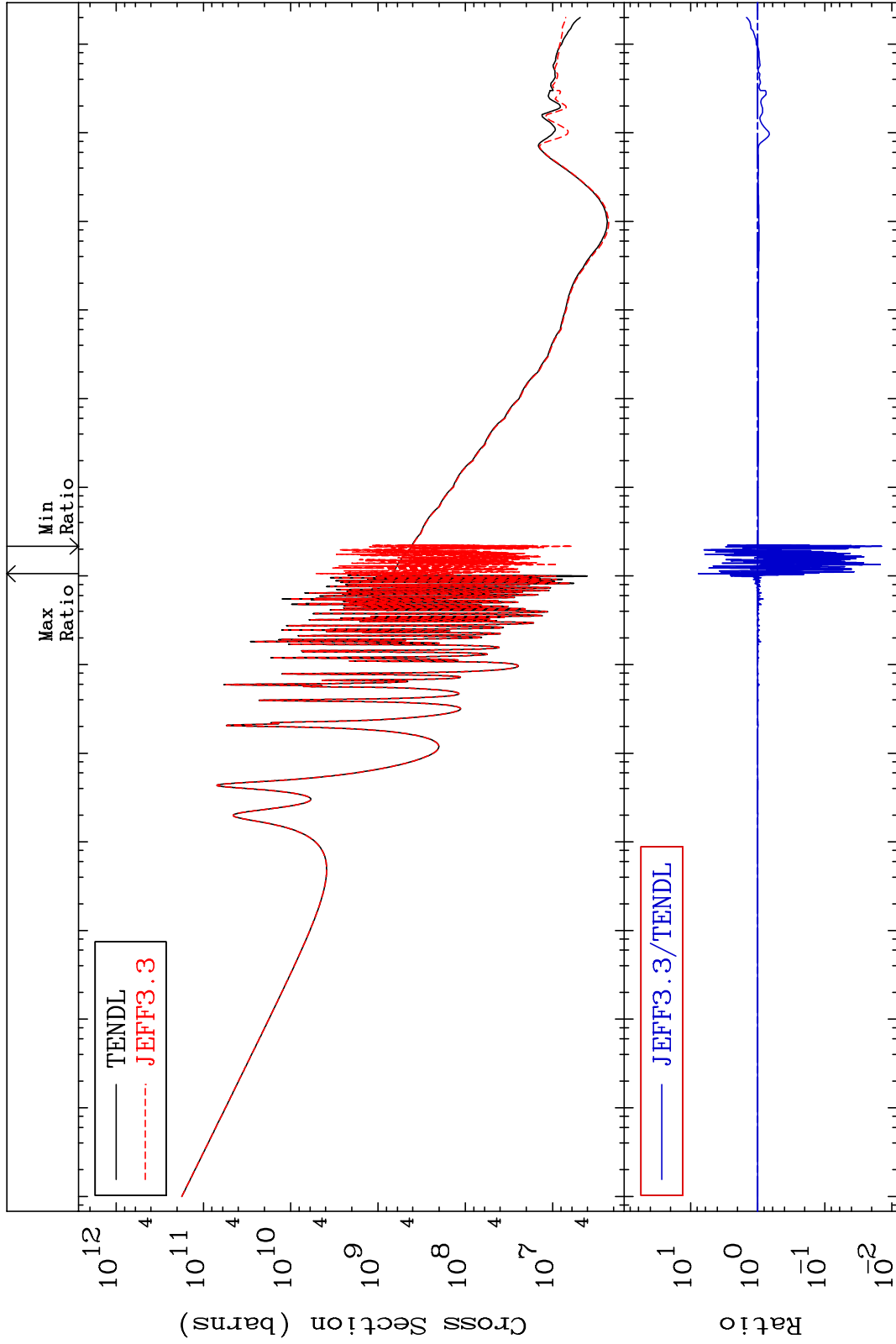
Incident Energy (eV)

73-Ta-180

MAT 7326

Total photon (eV-barns)  
Cross Section

<sup>73</sup>Ta-180  
-98.58 To 668.3 %



<sup>73</sup>

Incident Energy (eV)

<sup>73</sup>Ta-180

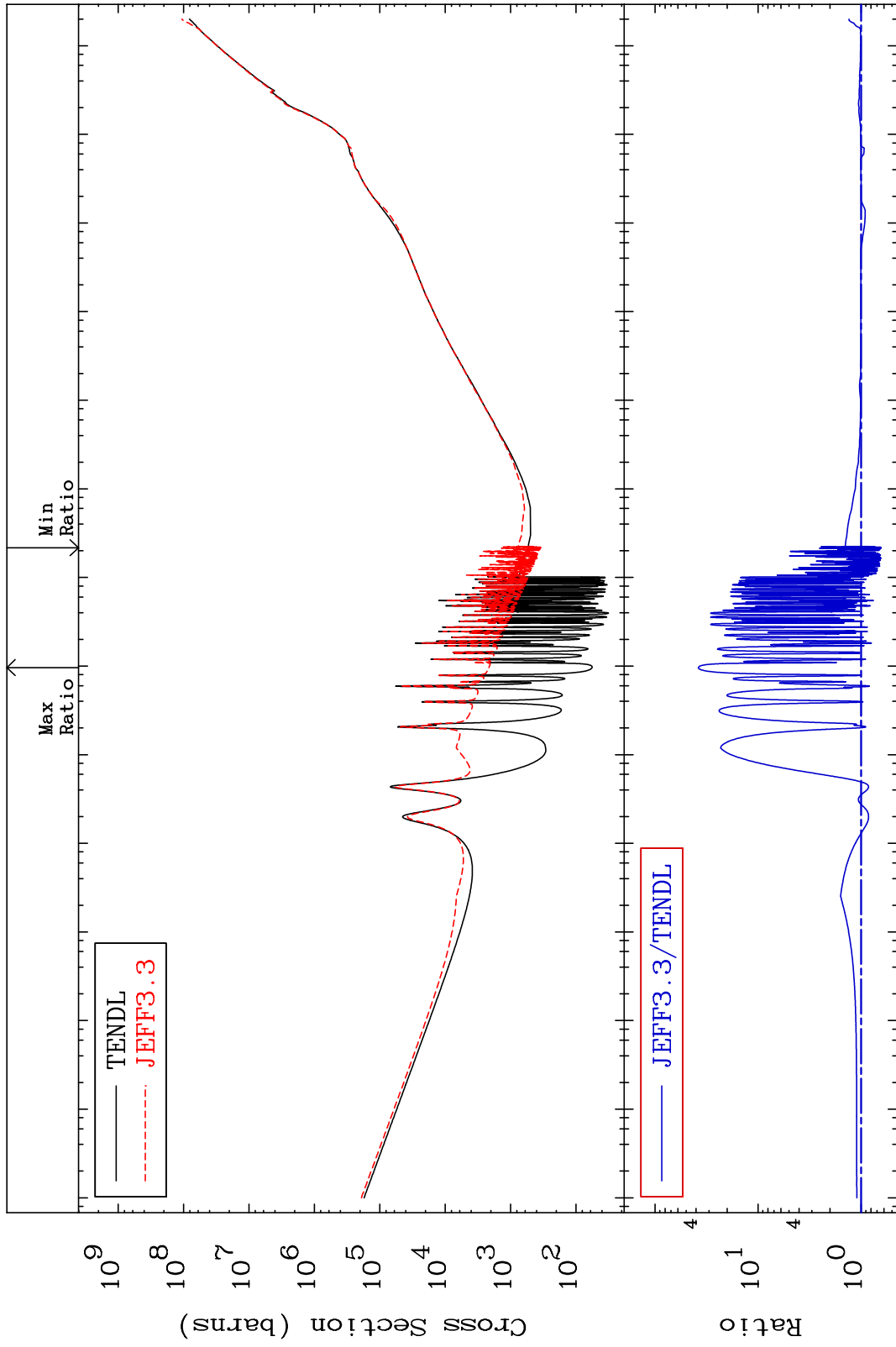
MAT 7326

Total kinematic kerma (high limit)

<sup>73</sup>Ta-180

-36.83 To 3701. %

Cross Section



74

Incident Energy (eV)

<sup>73</sup>Ta-180

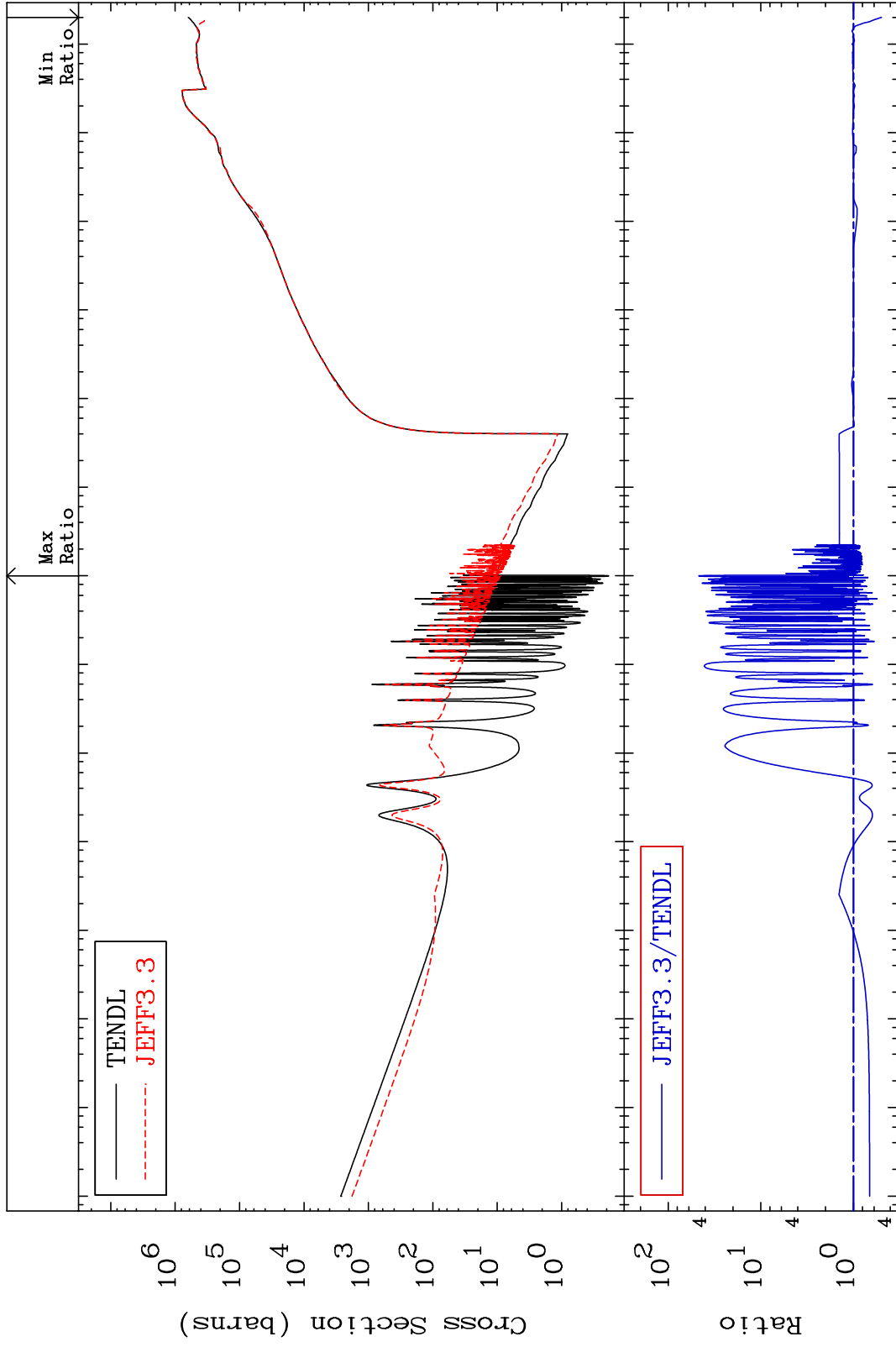
MAT 7326

Dpa total (eV-barns)

<sup>73</sup>Ta-180

-50.24 To 4633. %

Cross Section



75

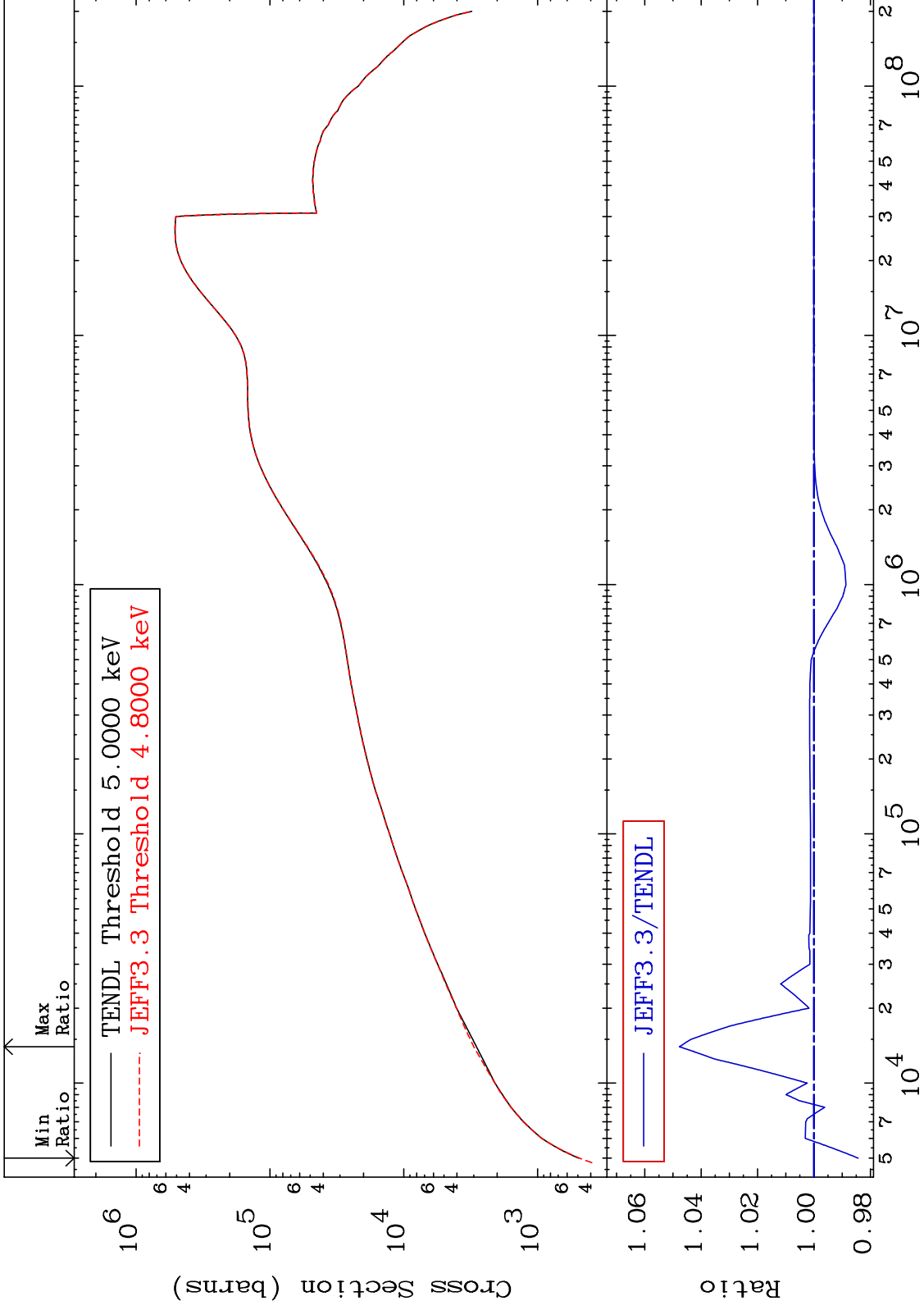
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

Dpa elastic (mt2)  
Cross Section

<sup>73</sup>Ta-180  
-1.571 To 4.773 %



76

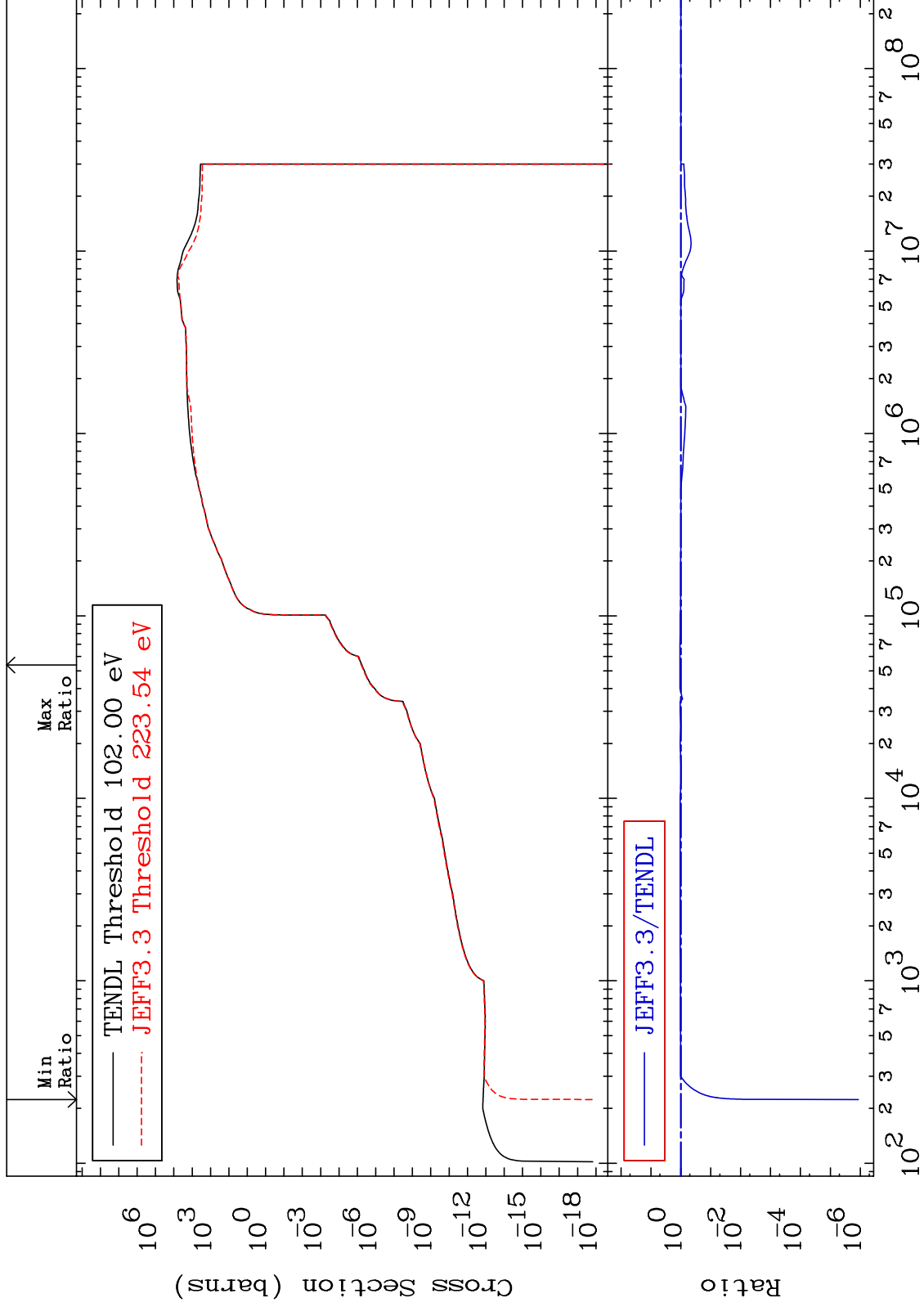
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

Dpa inelastic (mt51-91)  
Cross Section

<sup>73</sup>Ta-180  
-100.0 To 6.776 %



77

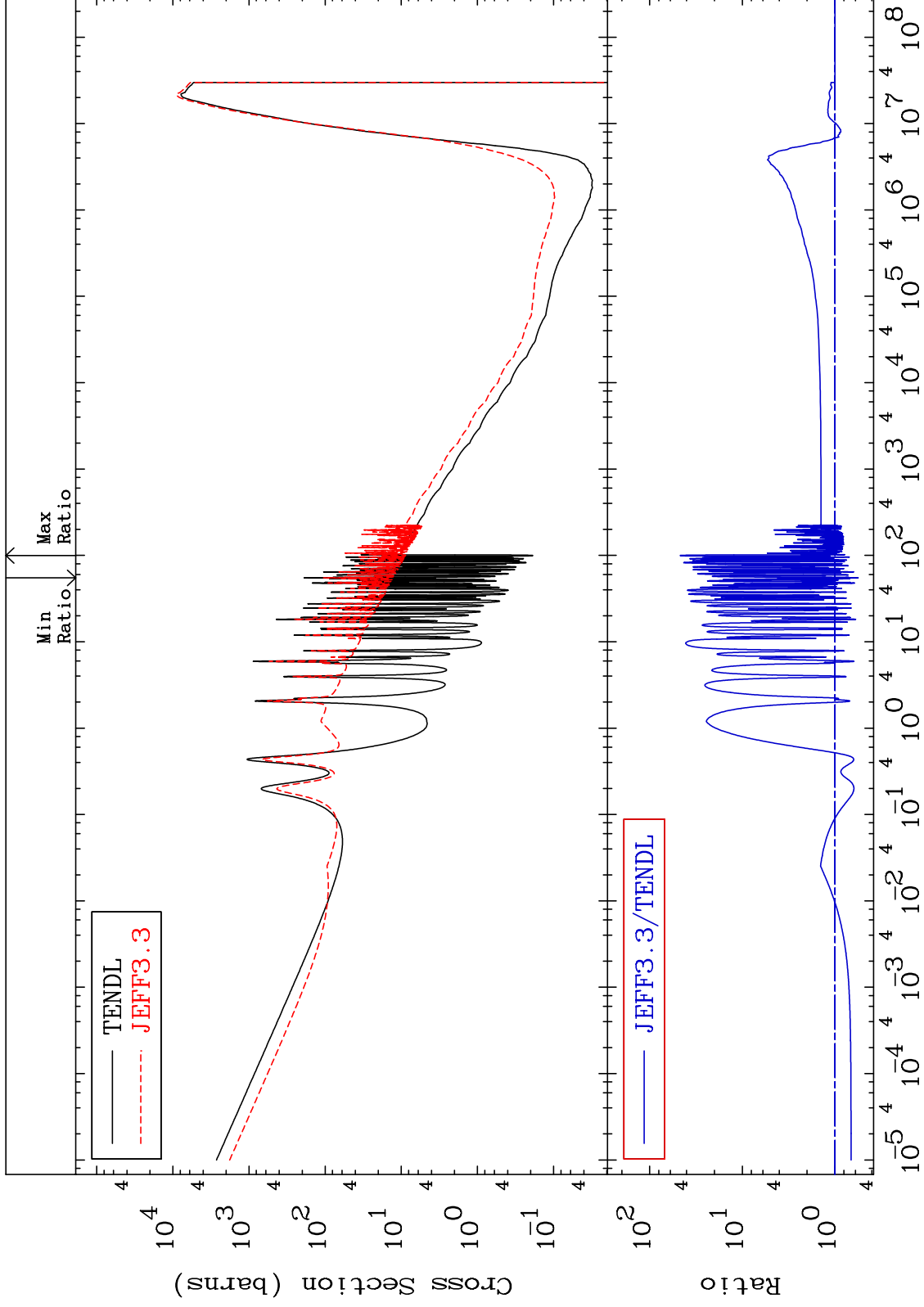
Incident Energy (eV)

<sup>73</sup>Ta-180

MAT 7326

Dpa disappearance (mt102 -120)  
Cross Section

<sup>73</sup>Ta-180  
-44.12 To 4633. %



78

Incident Energy (eV)

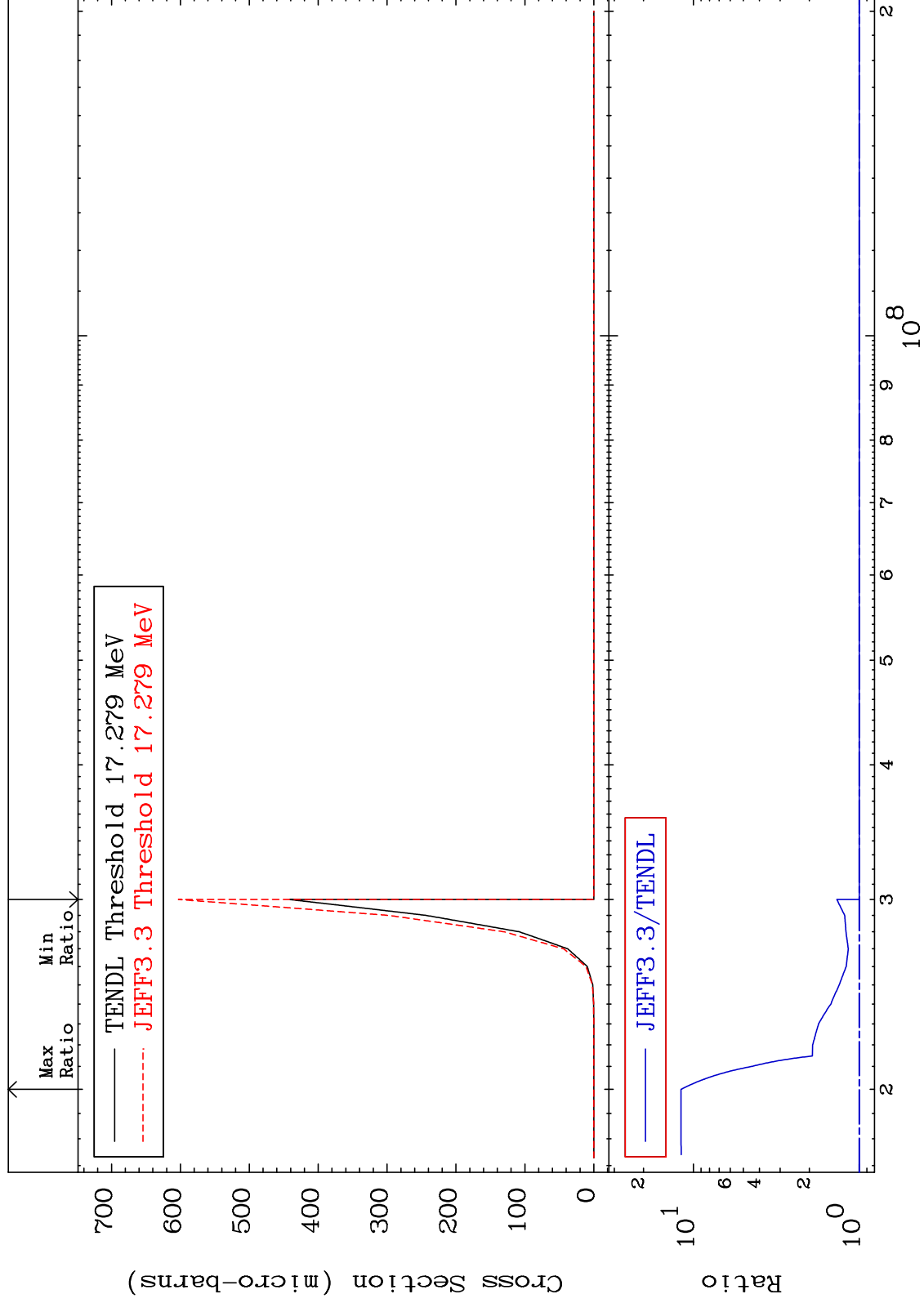
<sup>73</sup>Ta-180

MAT 7326

(n,2n) d:72-Hf-177g

73-Ta-180

Radionuclide Production Cross Section 0.000 To 1089. %



79

Incident Energy (eV)

73-Ta-180

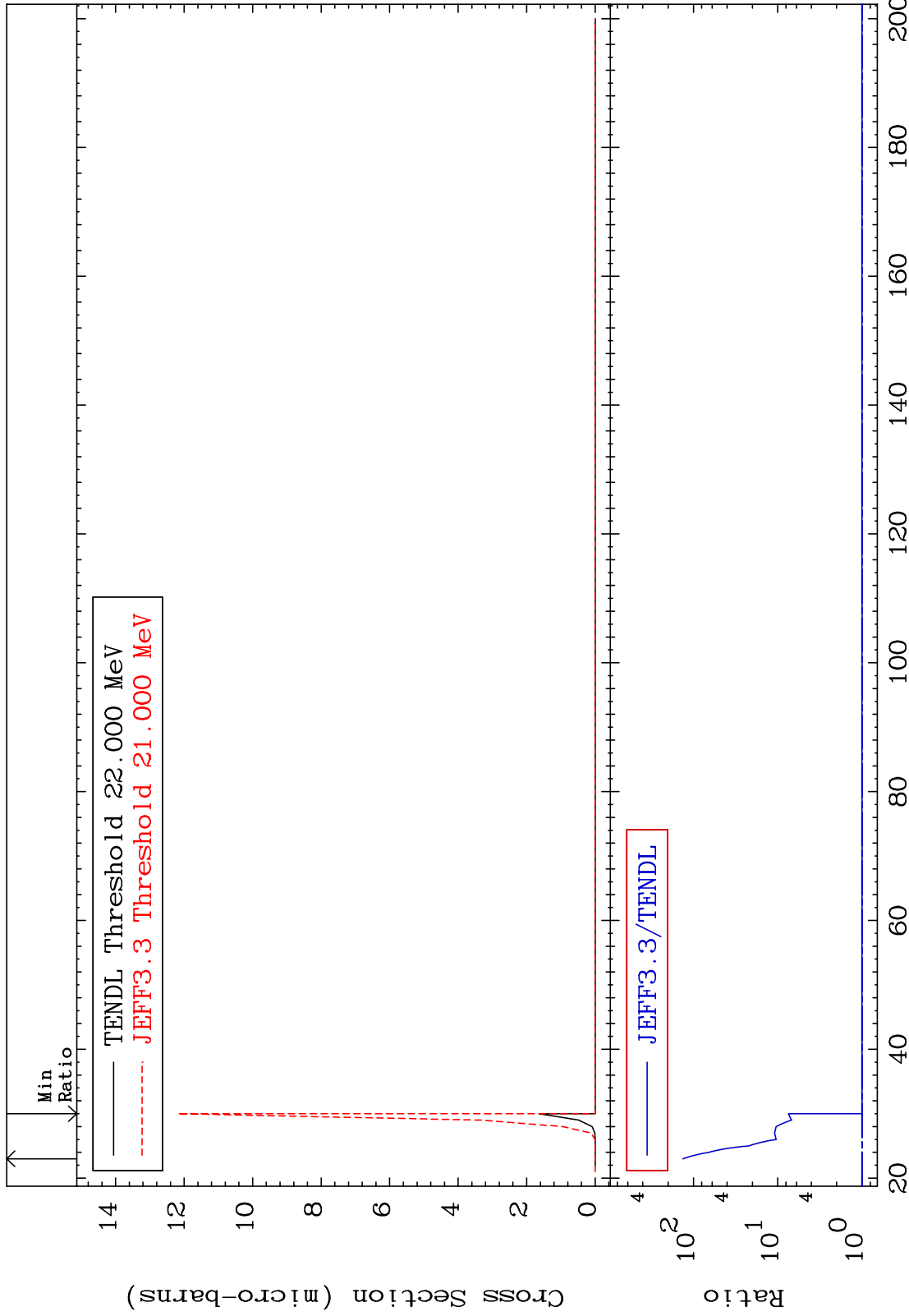


MAT 7326

(n,2n) d:72-Hf-177m10

73-Ta-180

Radionuclide Production Cross Section 0.000 To 9999. %



80

Incident Energy (MeV)

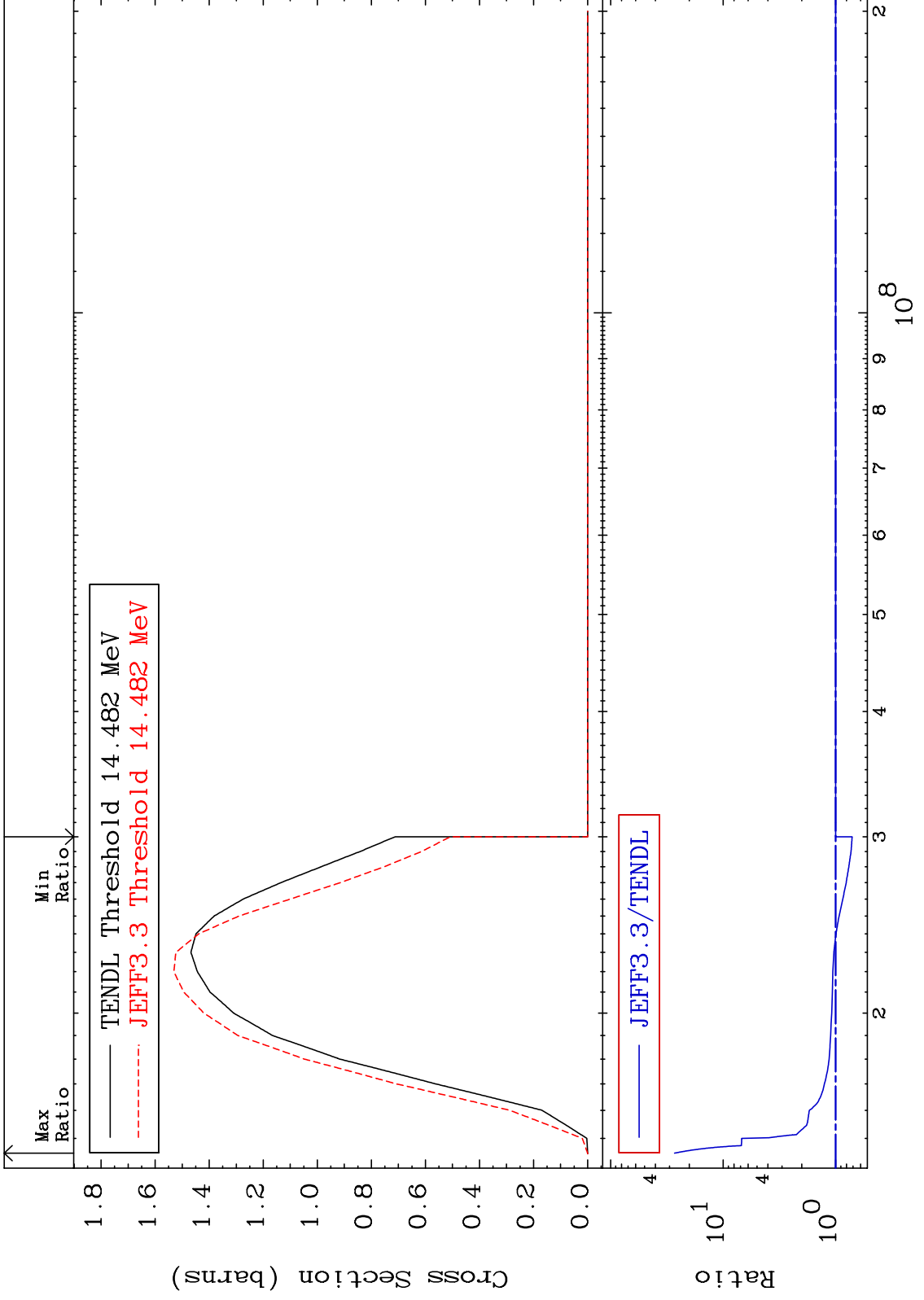
73-Ta-180

MAT 7326

(n,3n):73-Ta-178g

73-Ta-180

Radionuclide Production Cross Section -28.71 To 2601. %

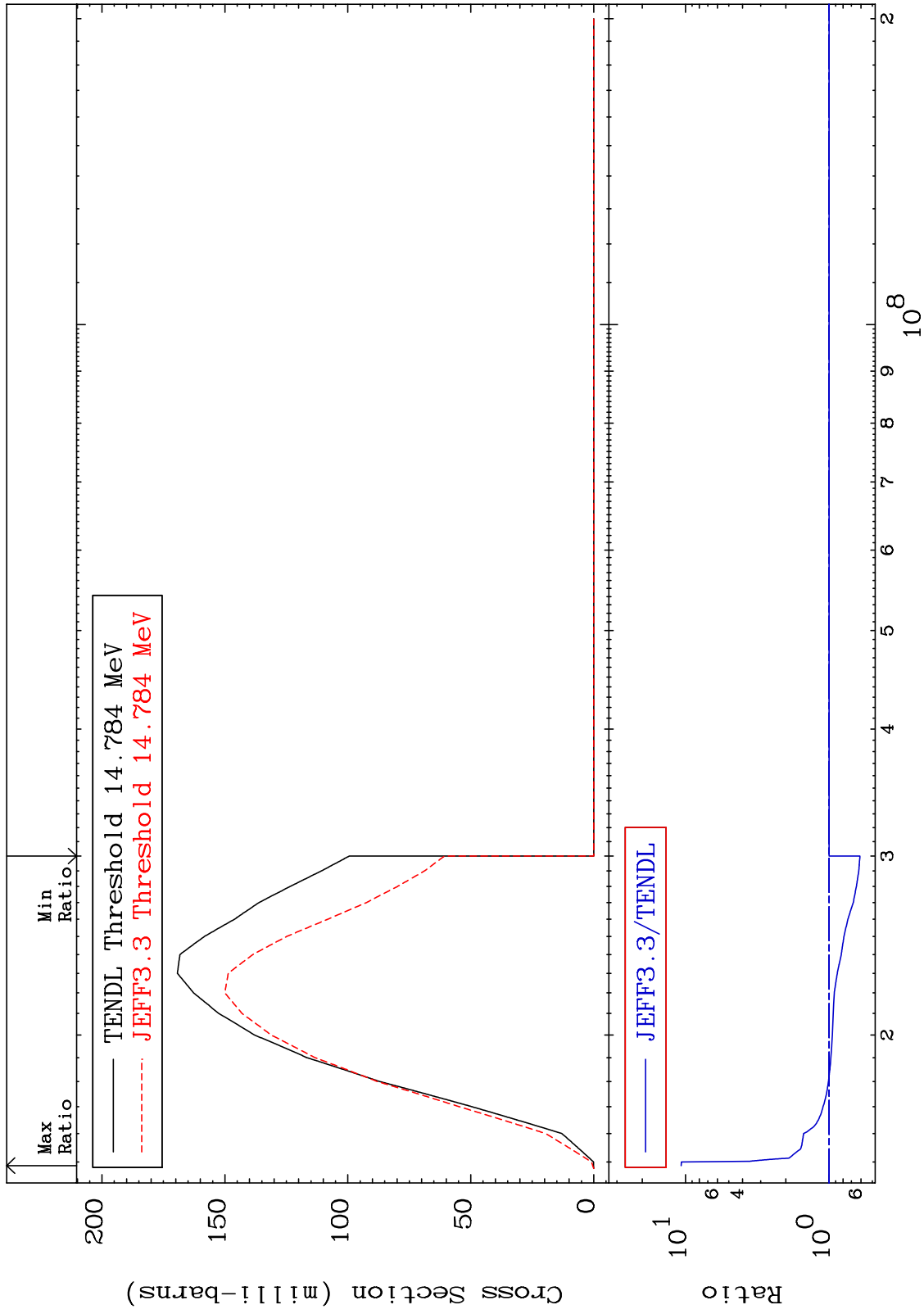


MAT 7326

(n,3n):73-Ta-178m1

73-Ta-180

Radionuclide Production Cross Section -38.95 To 970.4 %

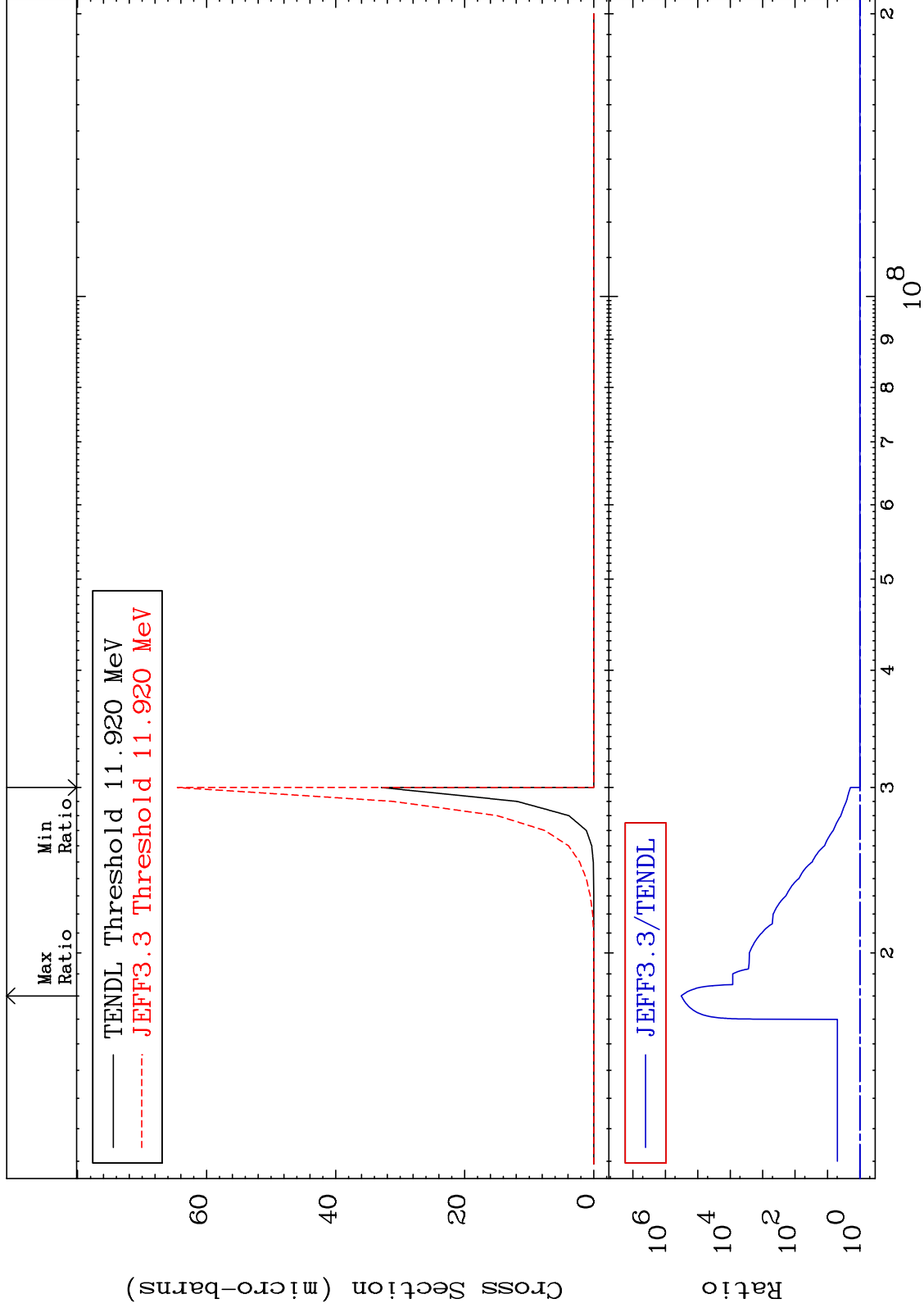


MAT 7326

(n,3n)  $\alpha$ :71-Lu-174g

<sup>73</sup>Ta-180

Radionuclide Production Cross Section 0.000 To 9999. %

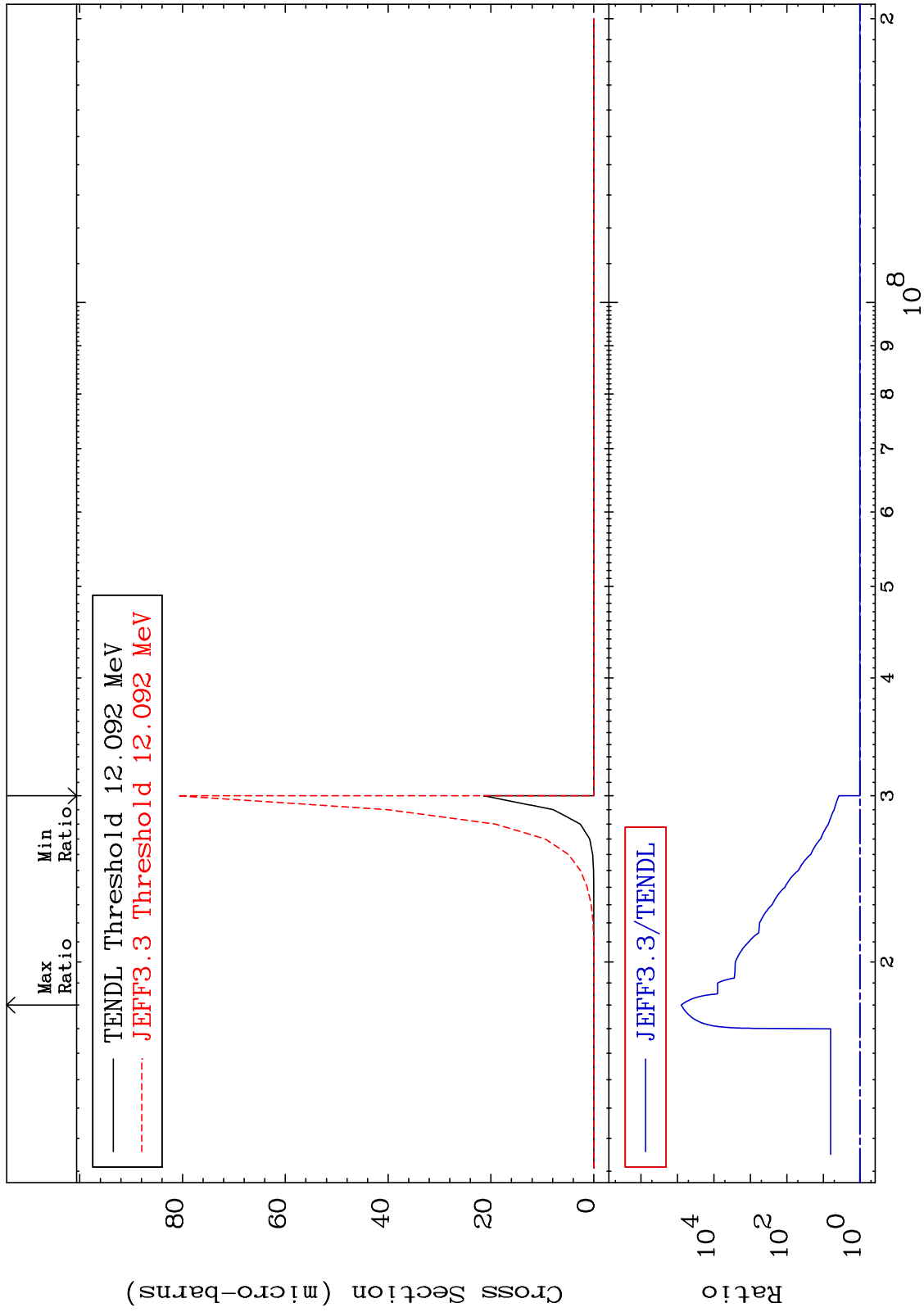


MAT 7326

(n, 3n)  $\alpha$ : 71-Lu-174m3

73-Ta-180

Radionuclide Production Cross Section 0.000 To 9999. %

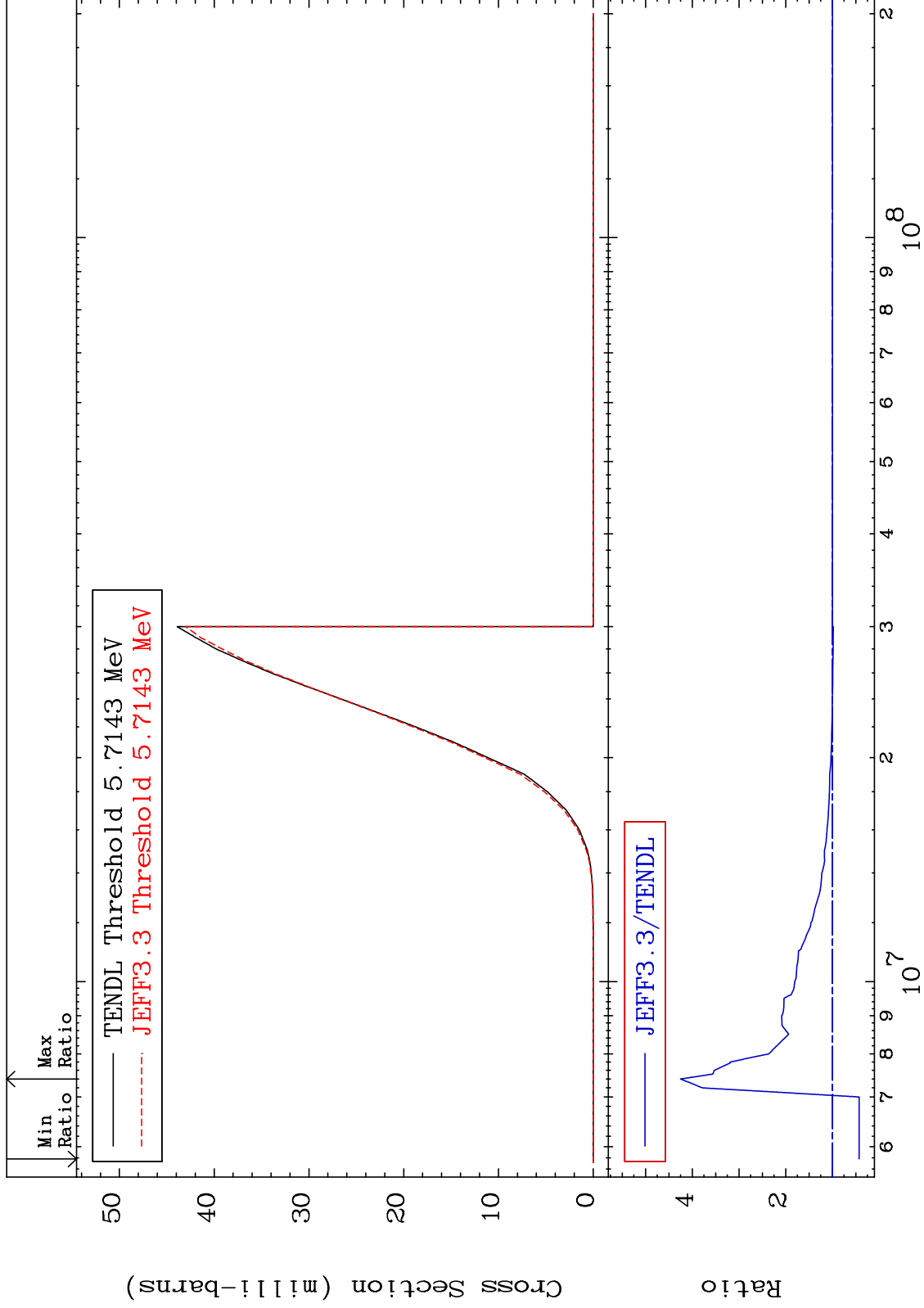


MAT 7326

(n, n') p:72-Hf-179g

73-Ta-180

Radionuclide Production Cross Section -57.12 To 325.0 %

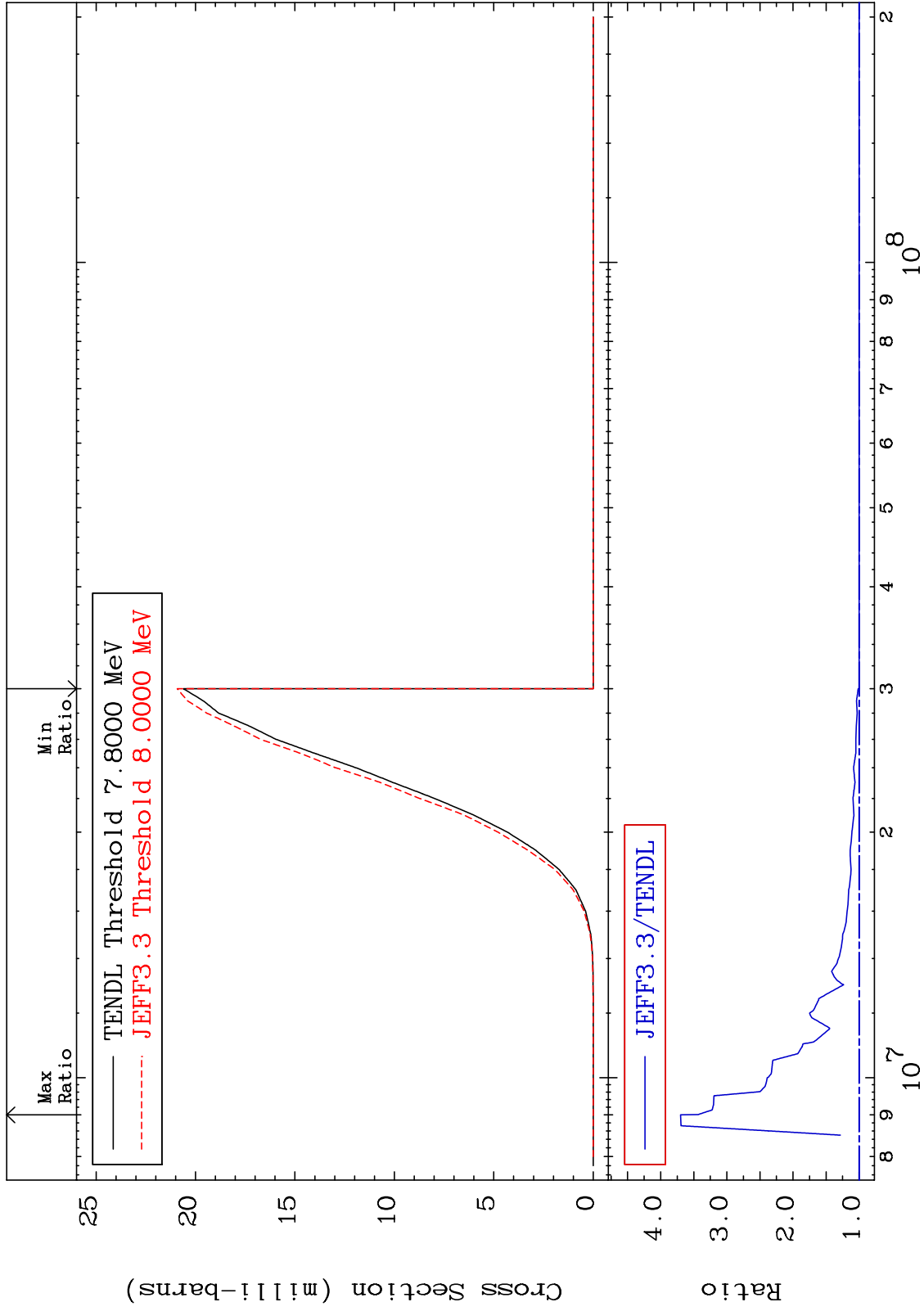


MAT 7326

(n, n') p:72-Hf-179m5

73-Ta-180

Radionuclide Production Cross Section 0.000 To 269.9 %

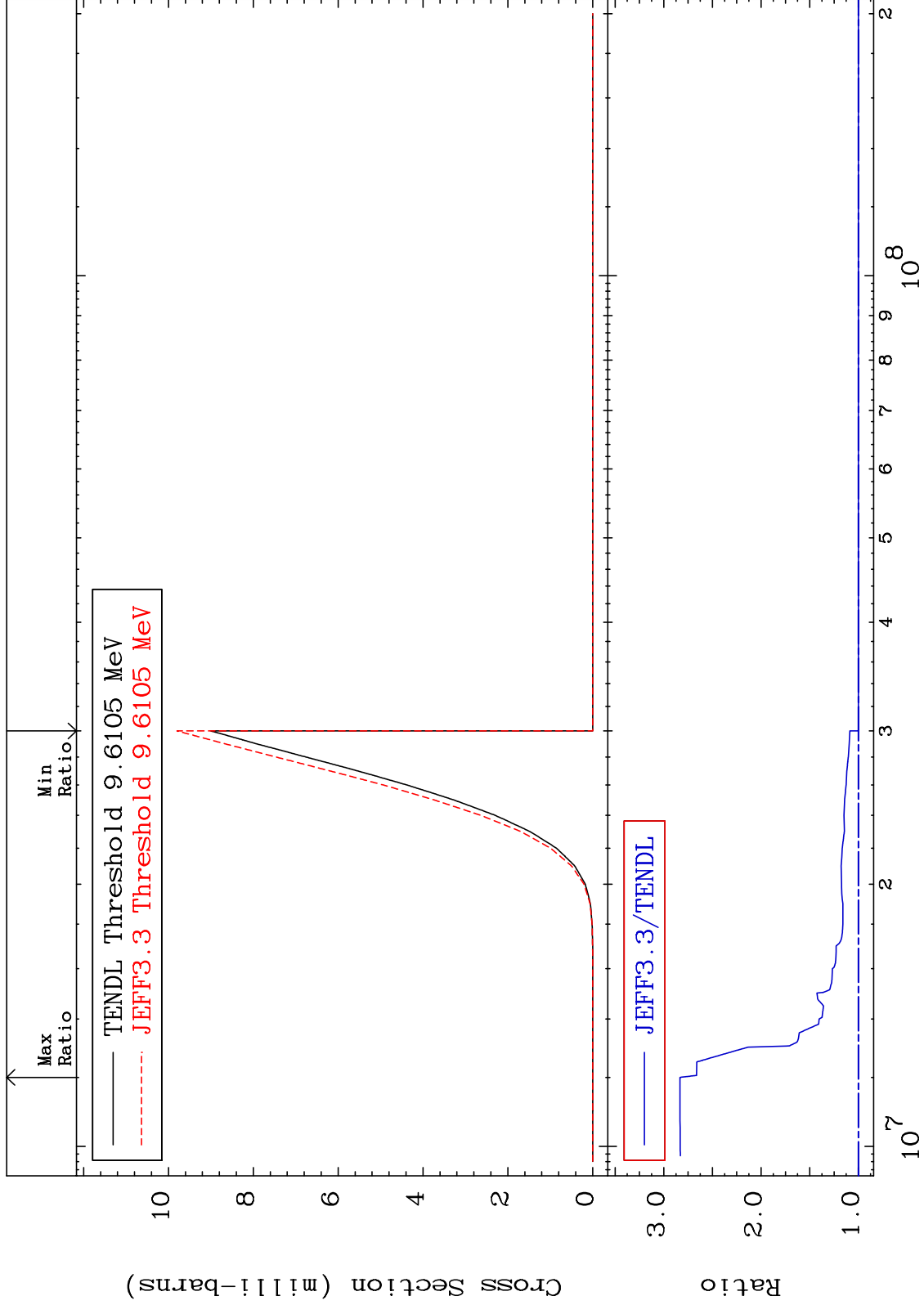


MAT 7326

(n, n') d:72-Hf-178g

73-Ta-180

Radionuclide Production Cross Section 0.000 To 183.3 %



87

Incident Energy (eV)

73-Ta-180

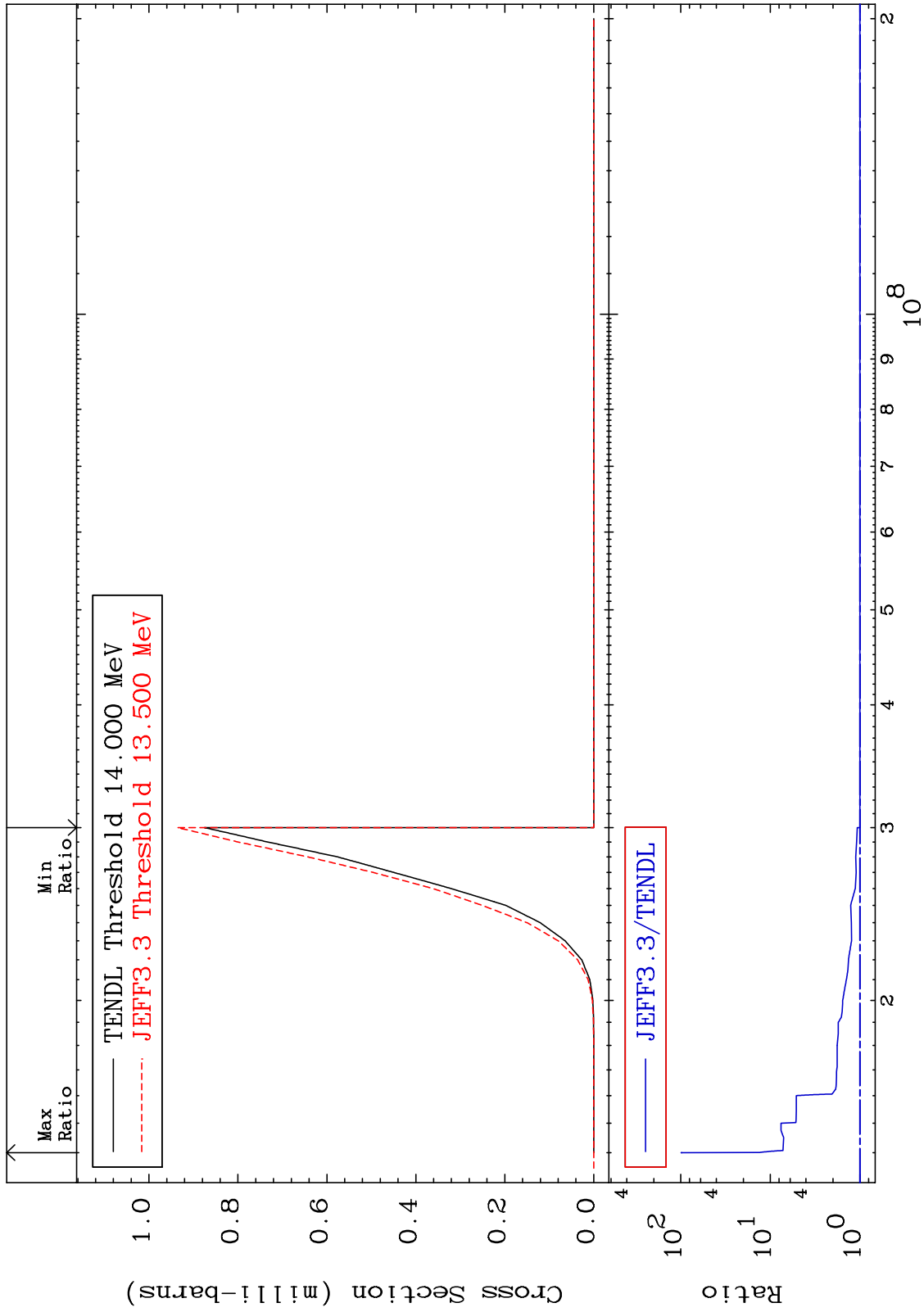


MAT 7326

(n, n') d:72-Hf-178m5

73-Ta-180

Radionuclide Production Cross Section 0.000 To 9771. %

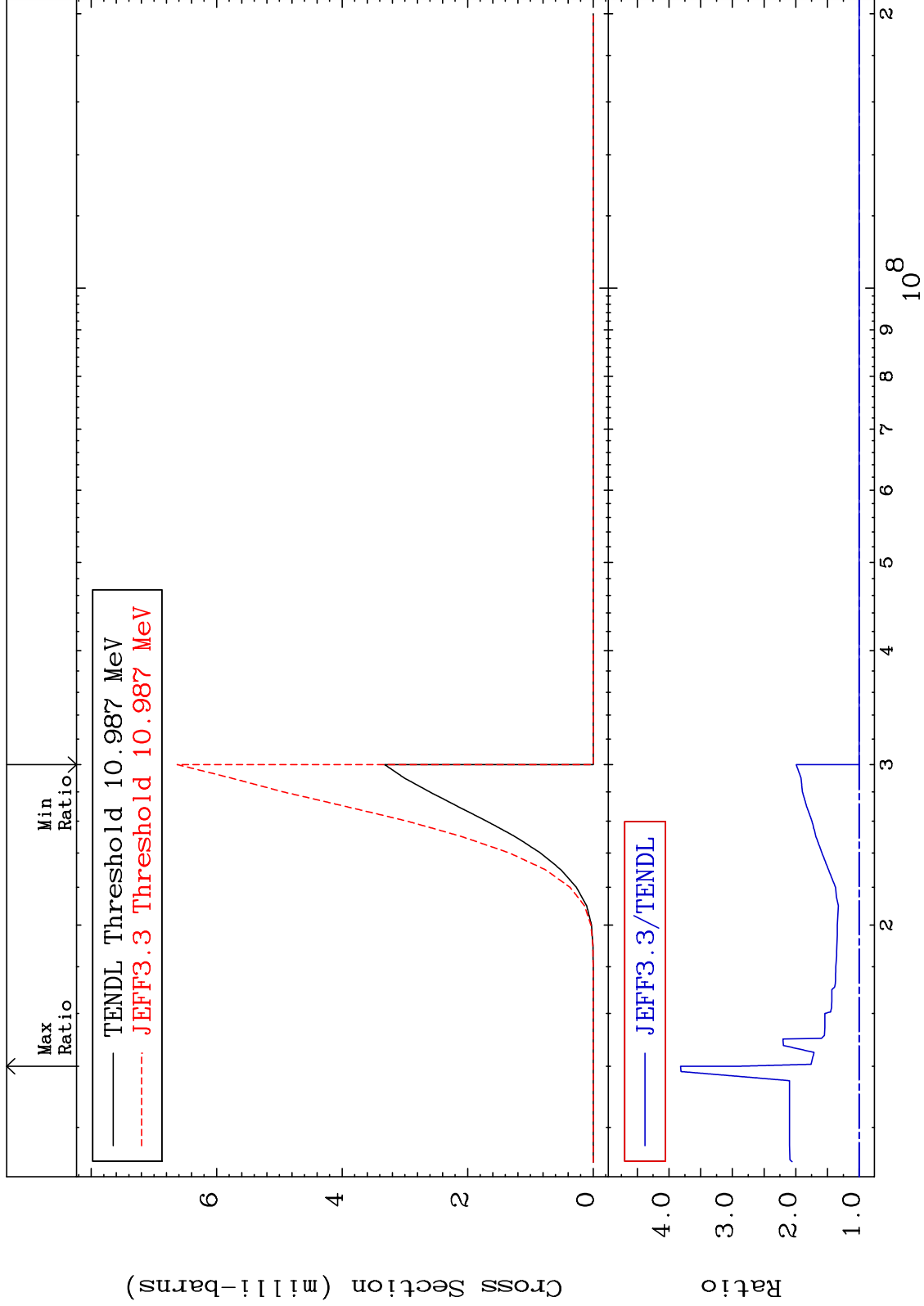


MAT 7326

(n, n') t:72-Hf-177g

73-Ta-180

Radionuclide Production Cross Section 0.000 To 281.6 %

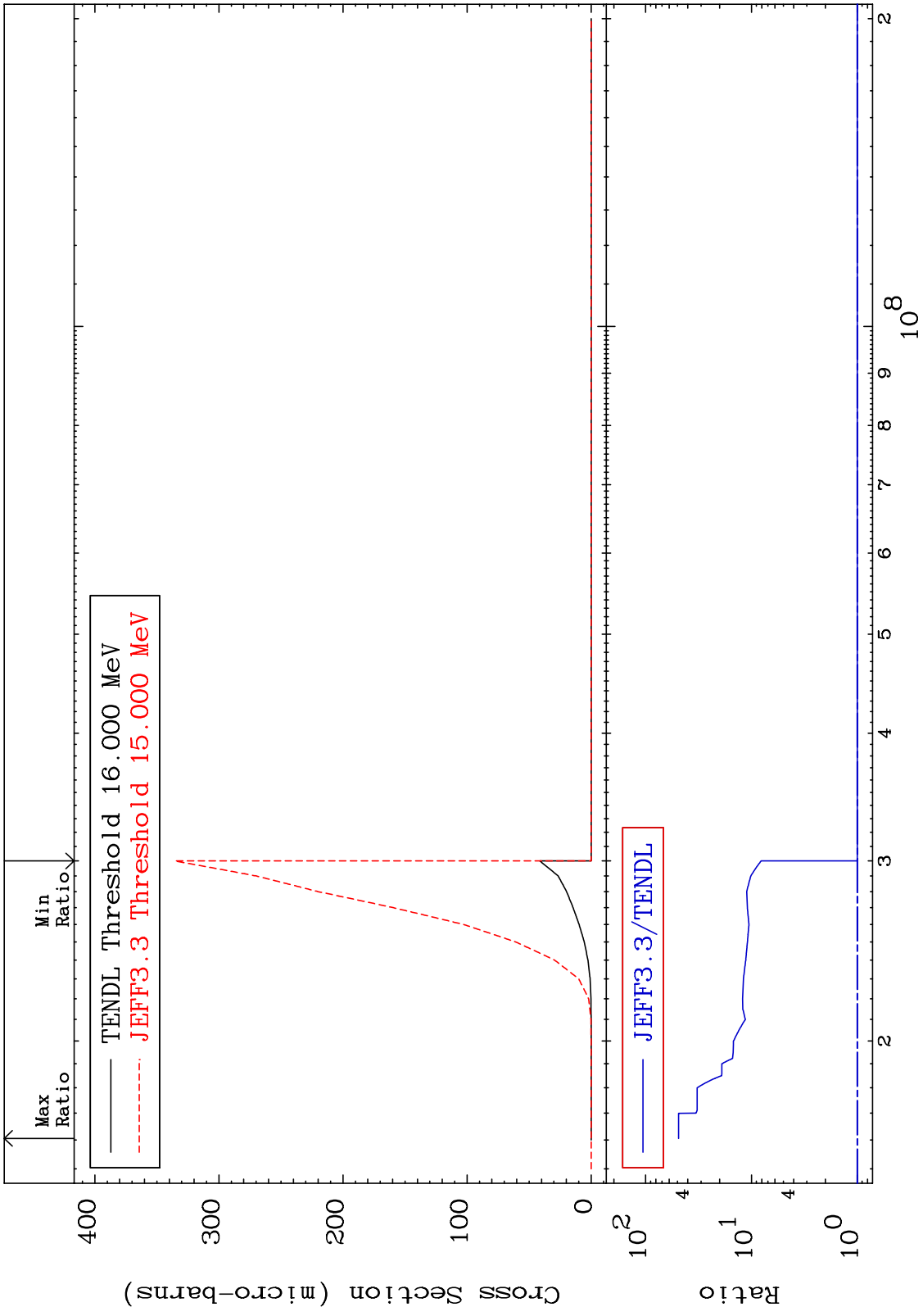


MAT 7326

(n, n') t:72-Hf-177m10

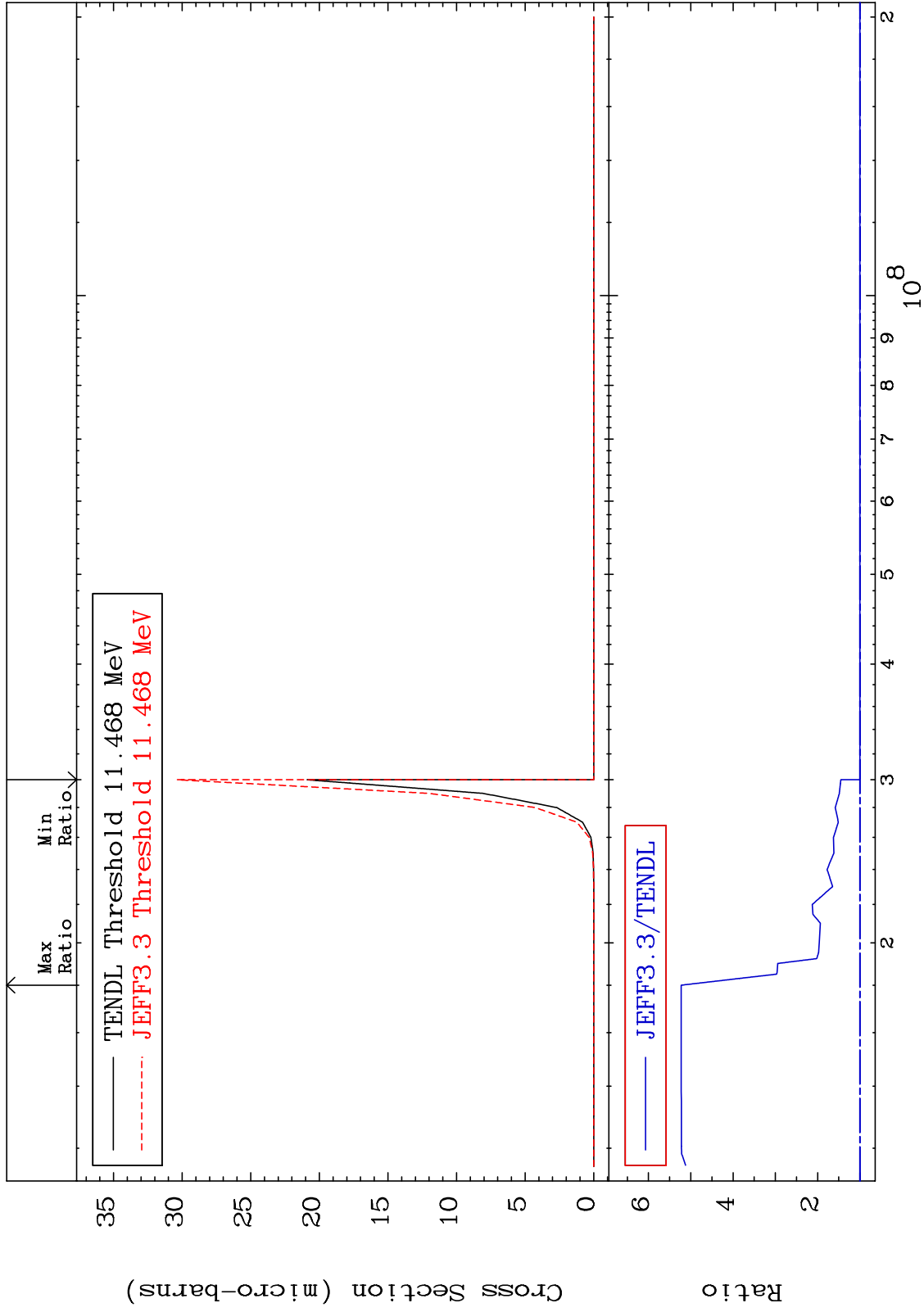
73-Ta-180

Radionuclide Production Cross Section 0.000 To 4781. %



MAT 7326

(n, n') He-3:71-Lu-177g 73-Ta-180  
Radionuclide Production Cross Section 0.000 To 422.6 %

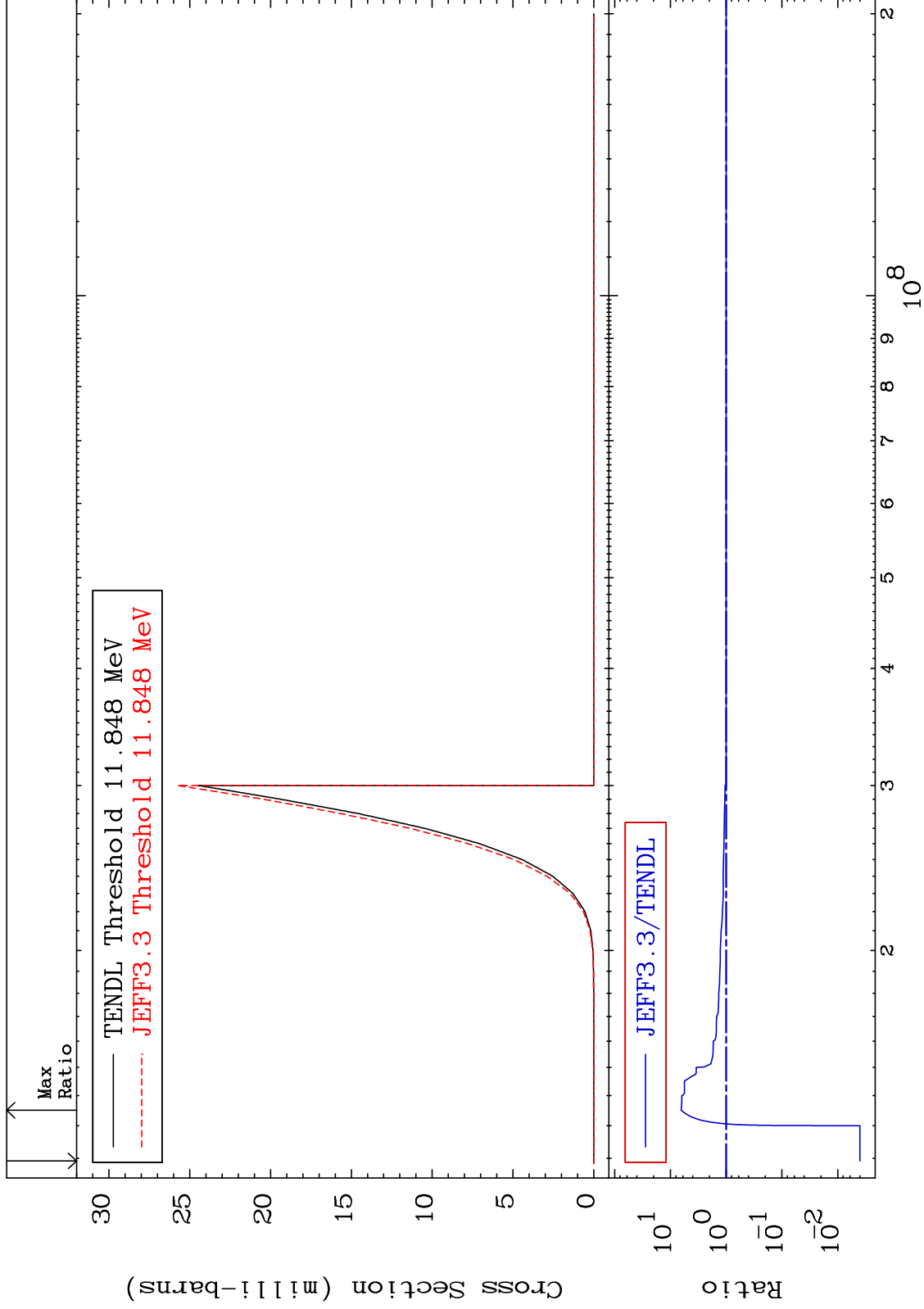


MAT 7326

(n,2n) p:72-Hf-178g

<sup>73</sup>Ta-180

Radionuclide Production Cross Section -99.60 To 540.7 %

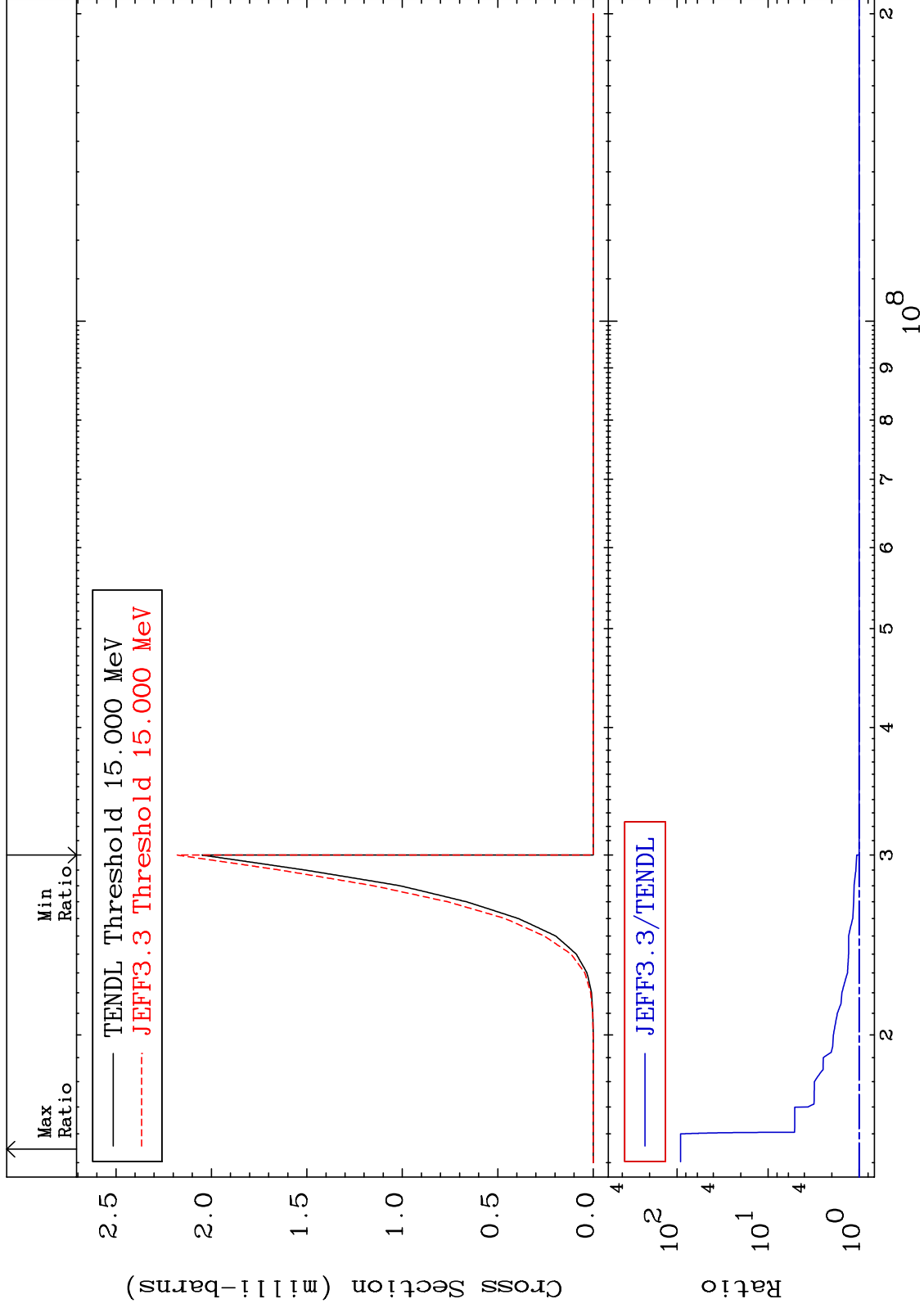


MAT 7326

(n,2n) p:72-Hf-178m5

73-Ta-180

Radionuclide Production Cross Section 0.000 To 9041. %

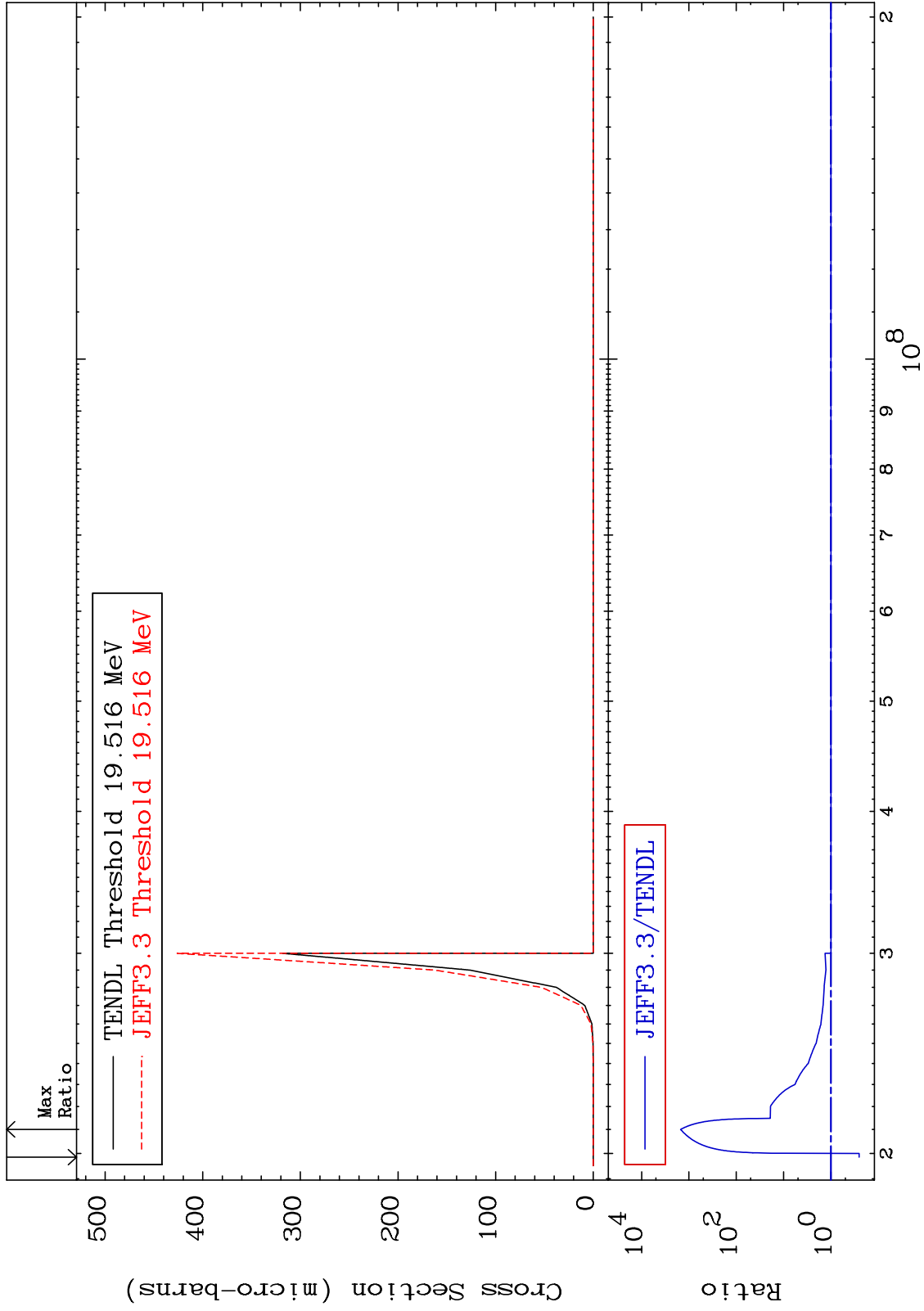


MAT 7326

(n,3n) p:72-Hf-177g

<sup>73</sup>Ta-180

Radionuclide Production Cross Section -74.53 To 9999. %

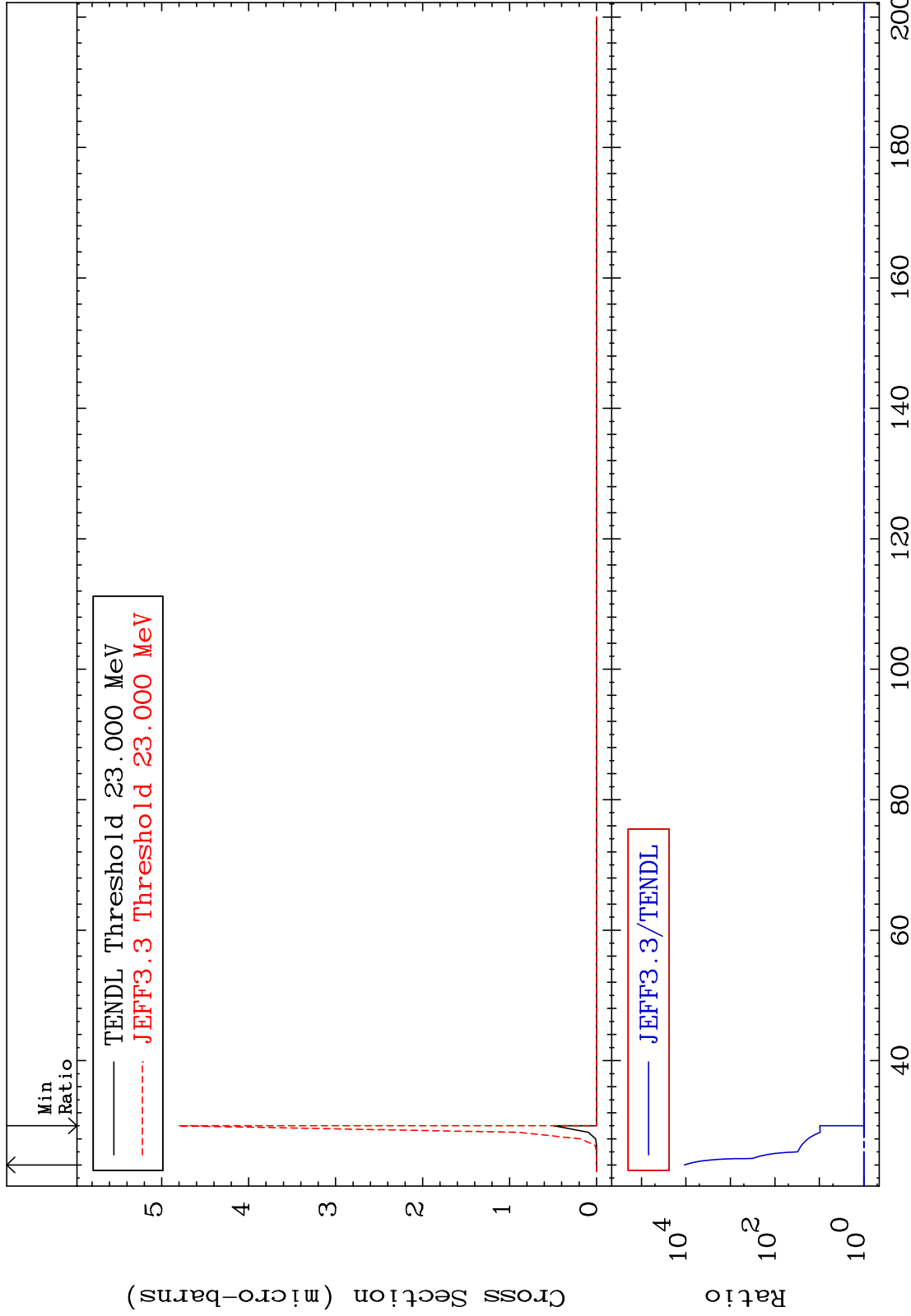


MAT 7326

(n,3n) p:72-Hf-177m10

<sup>73</sup>Ta-180

Radionuclide Production Cross Section 0.000 To 9999. %



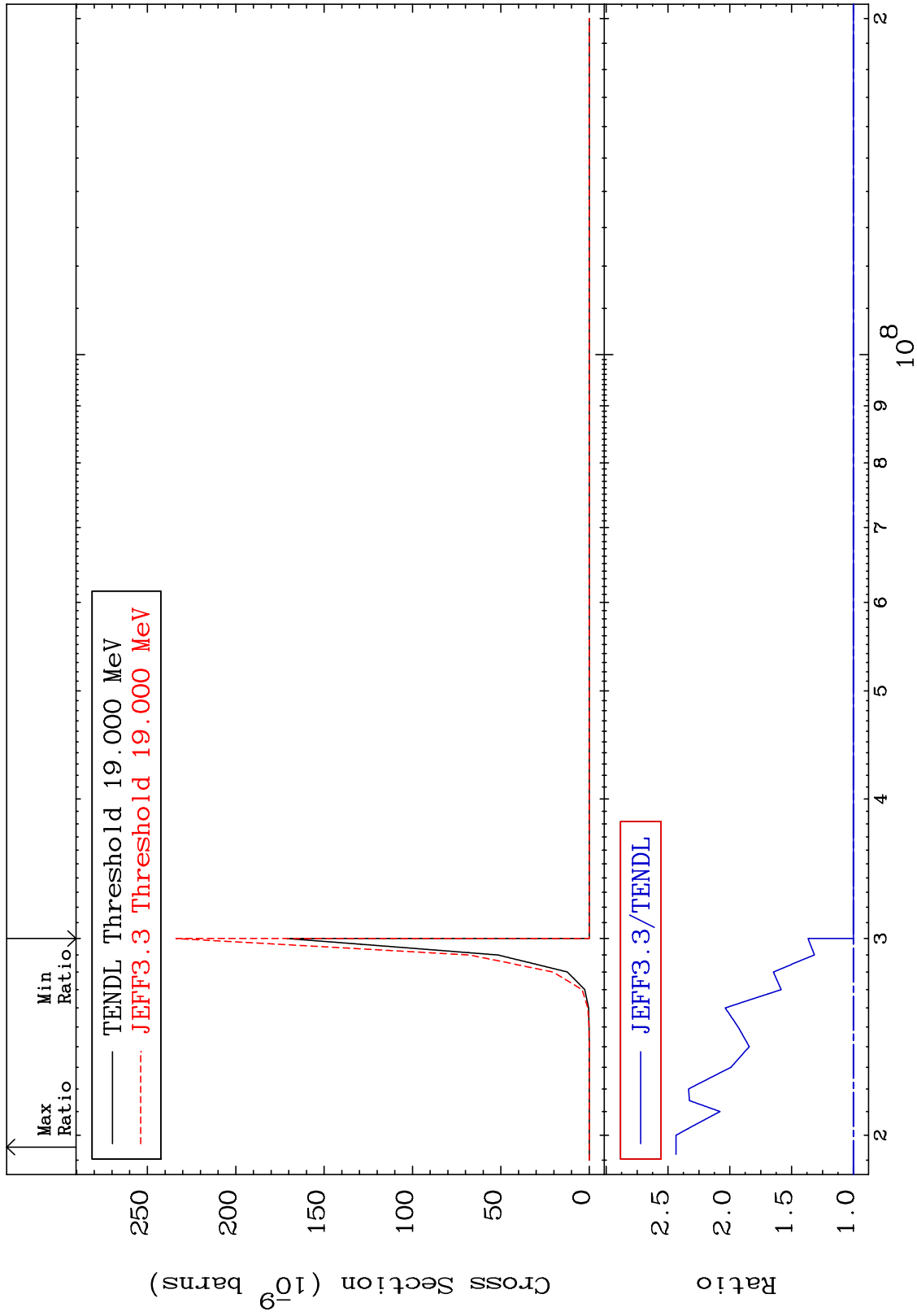


MAT 7326

(n,2n) p:71-Lu-178g

<sup>73</sup>Ta-180

Radionuclide Production Cross Section 0.000 To 143.5 %

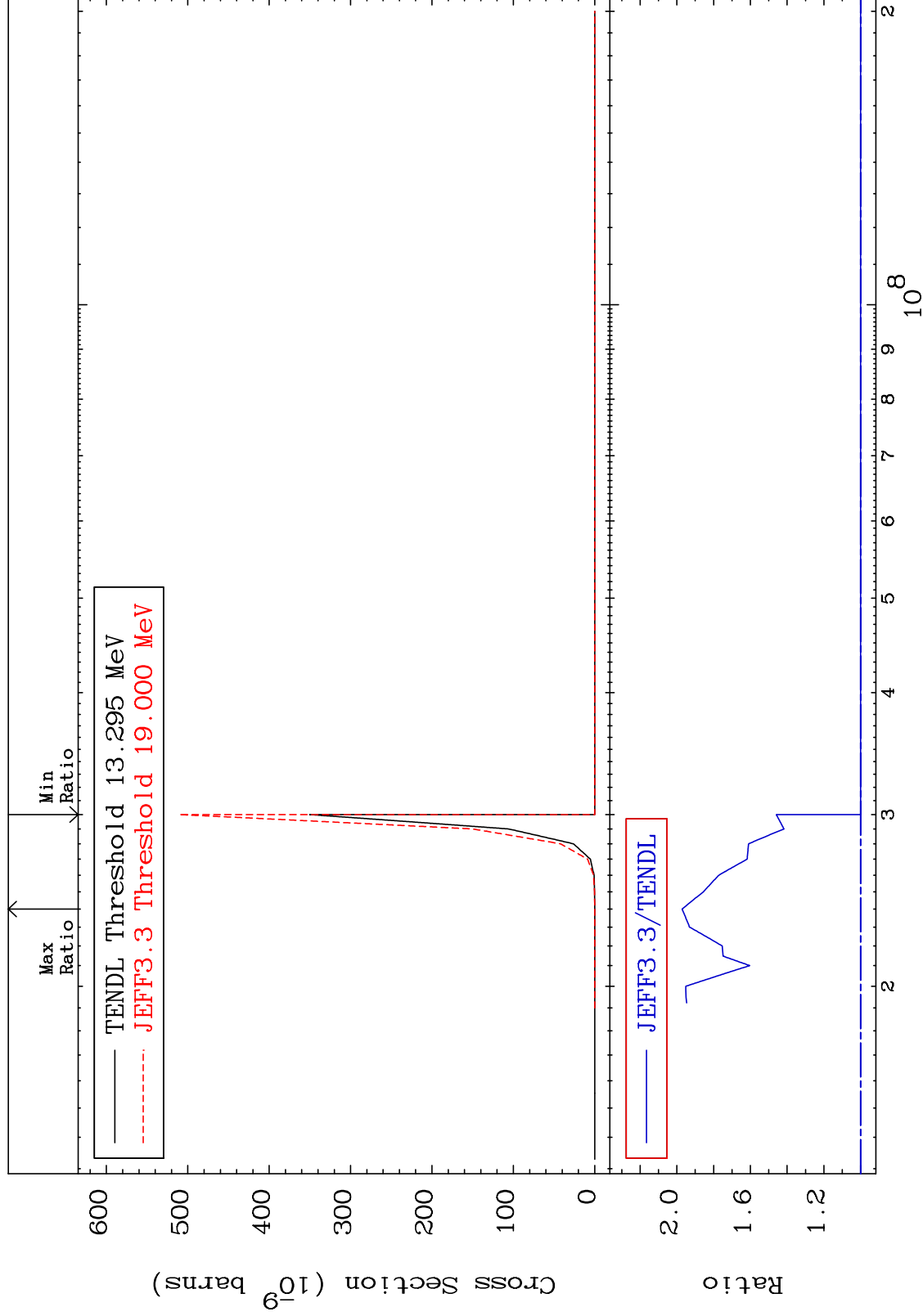


MAT 7326

(n,2n) p:71-Lu-178m3

73-Ta-180

Radionuclide Production Cross Section 0.000 To 97.15 %



97

Incident Energy (eV)

73-Ta-180

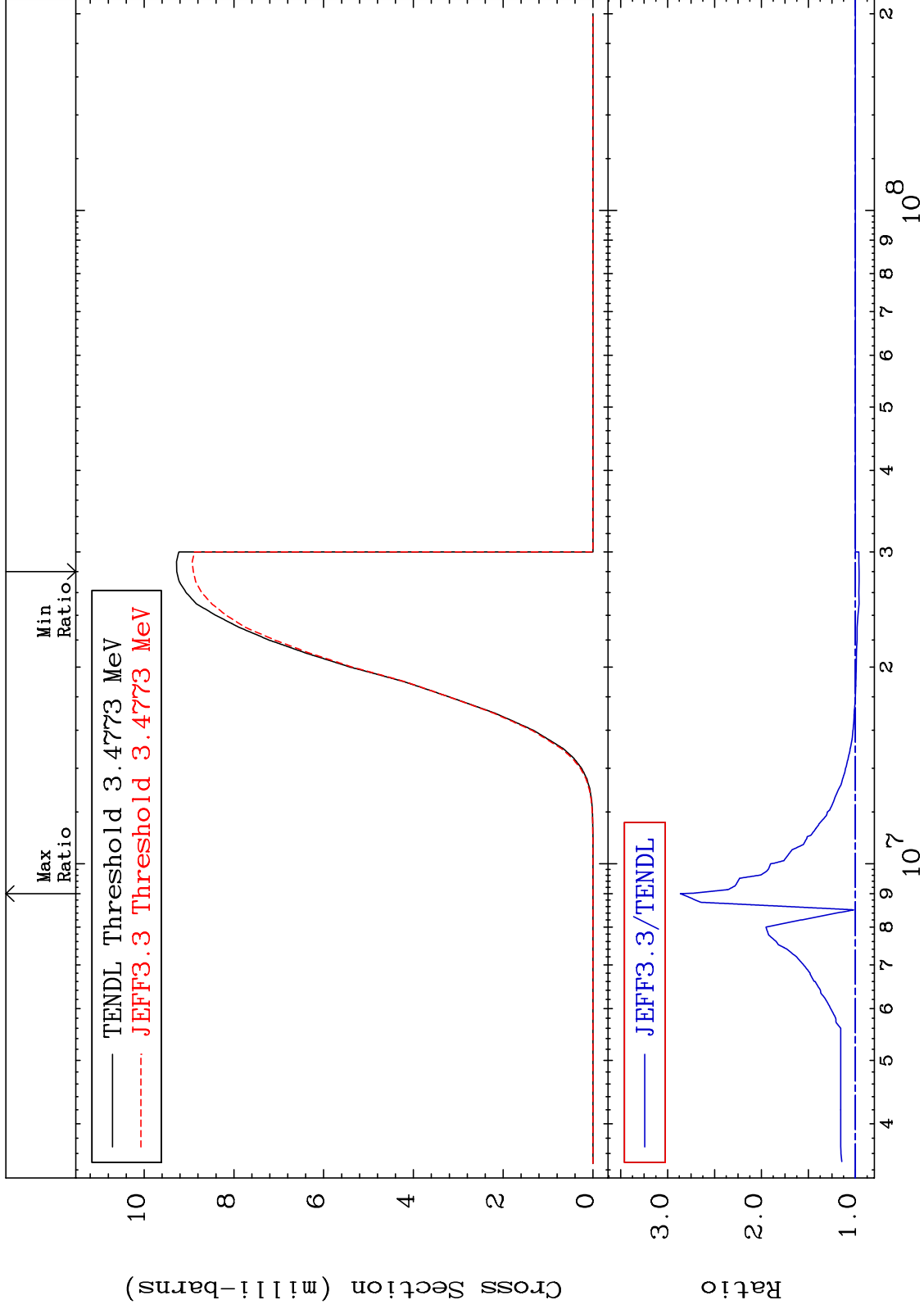
MAT 7326

(n,d):72-Hf-179g

73-Ta-180

Radionuclide Production Cross Section

-3.990 To 186.4 %

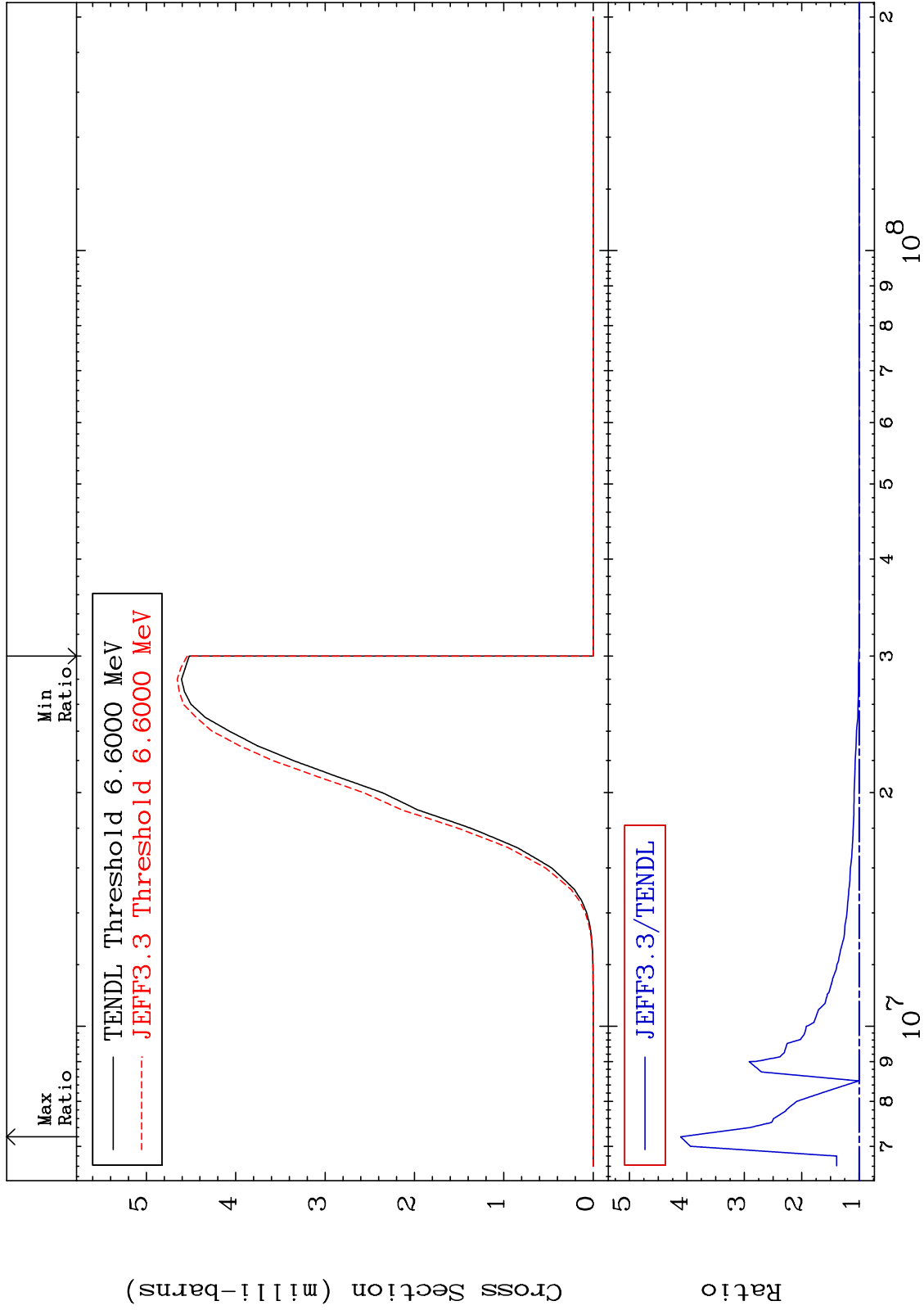


MAT 7326

(n,d):72-Hf-179m5

73-Ta-180

Radionuclide Production Cross Section 0.000 To 311.1 %

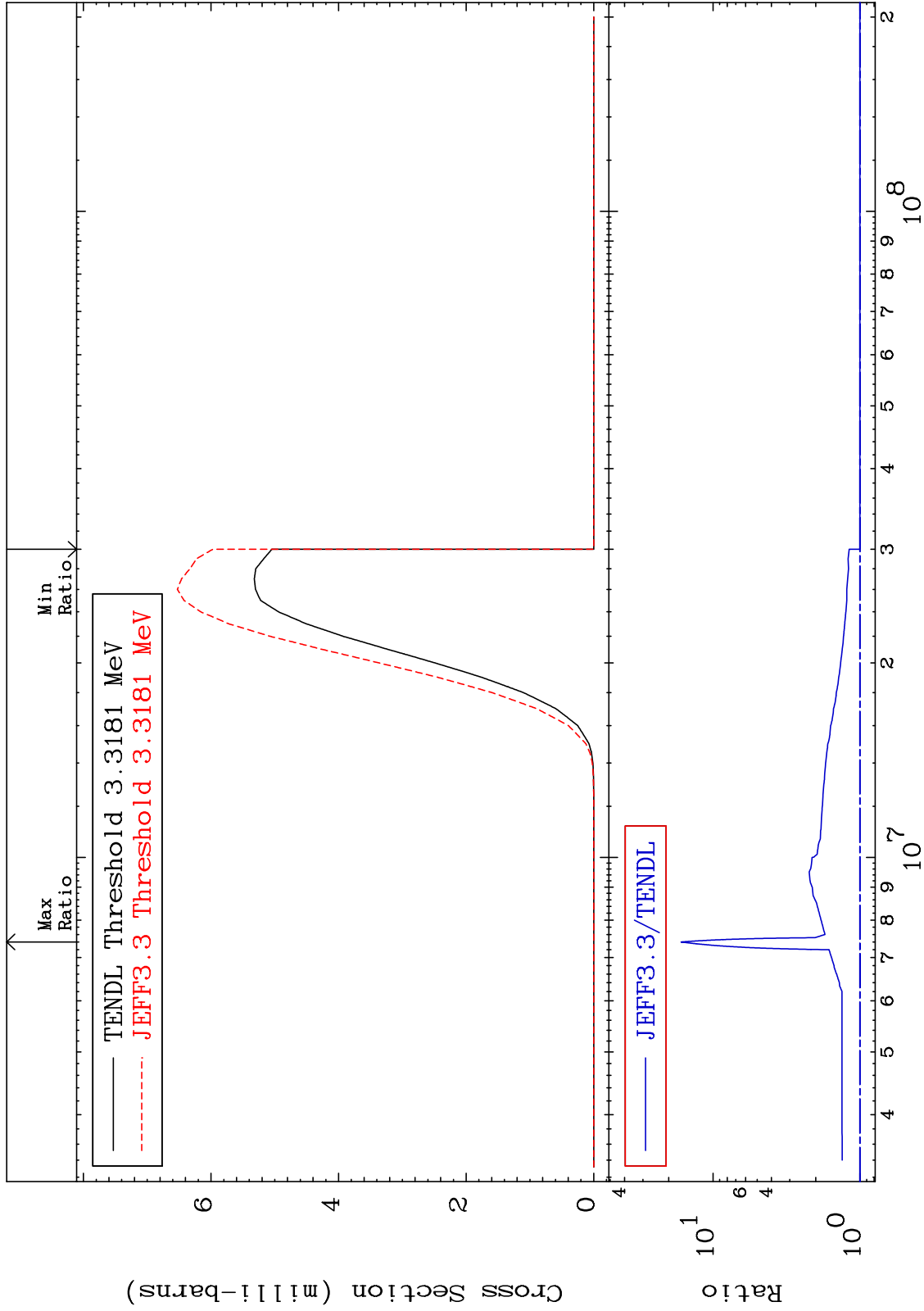


MAT 7326

(n, t): 72-Hf-178g

73-Ta-180

Radionuclide Production Cross Section 0.000 To 1544. %



100

Incident Energy (eV)

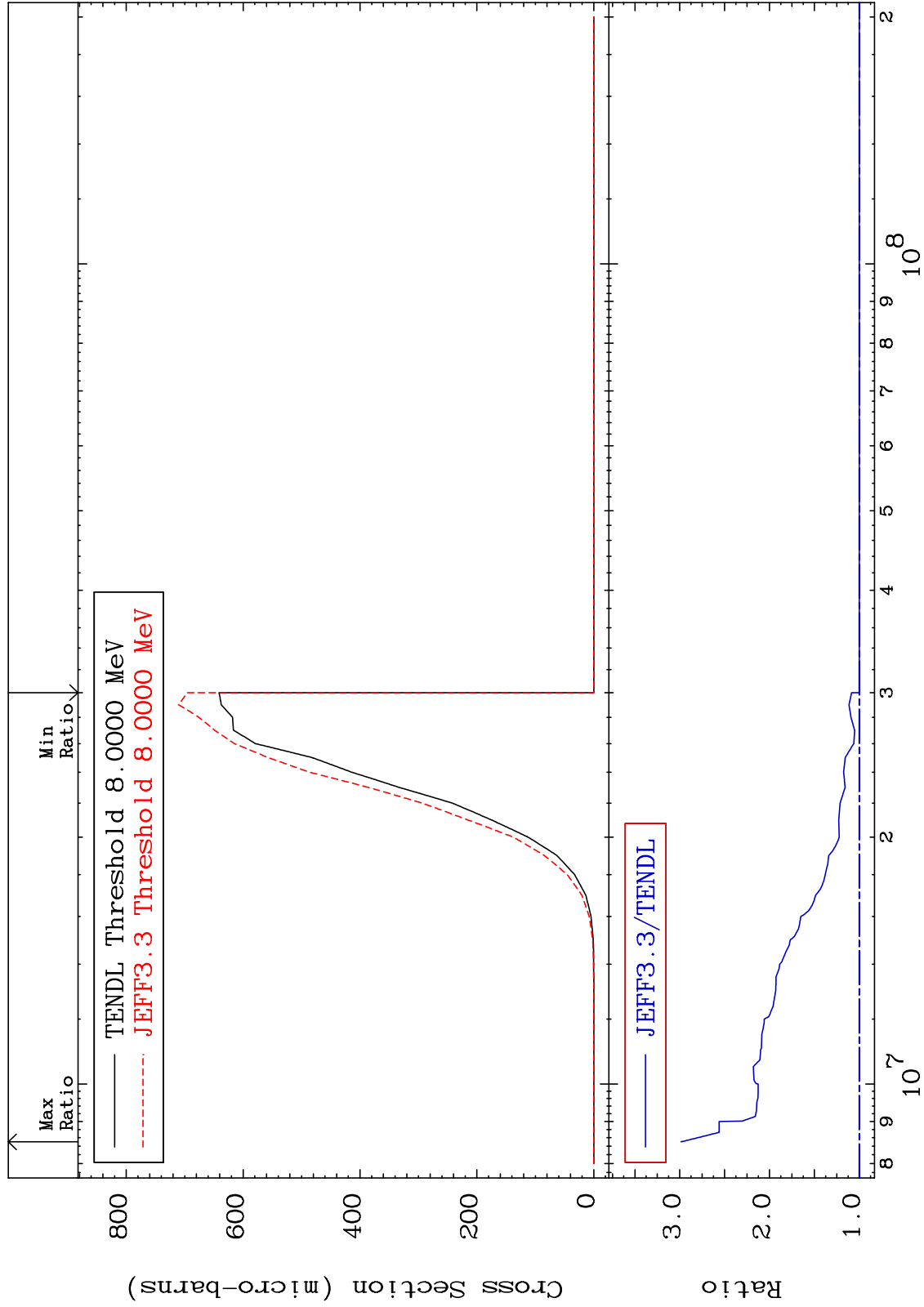
73-Ta-180

MAT 7326

(n, t): 72-Hf-178m5

73-Ta-180

Radionuclide Production Cross Section 0.000 To 198.6 %



101

73-Ta-180

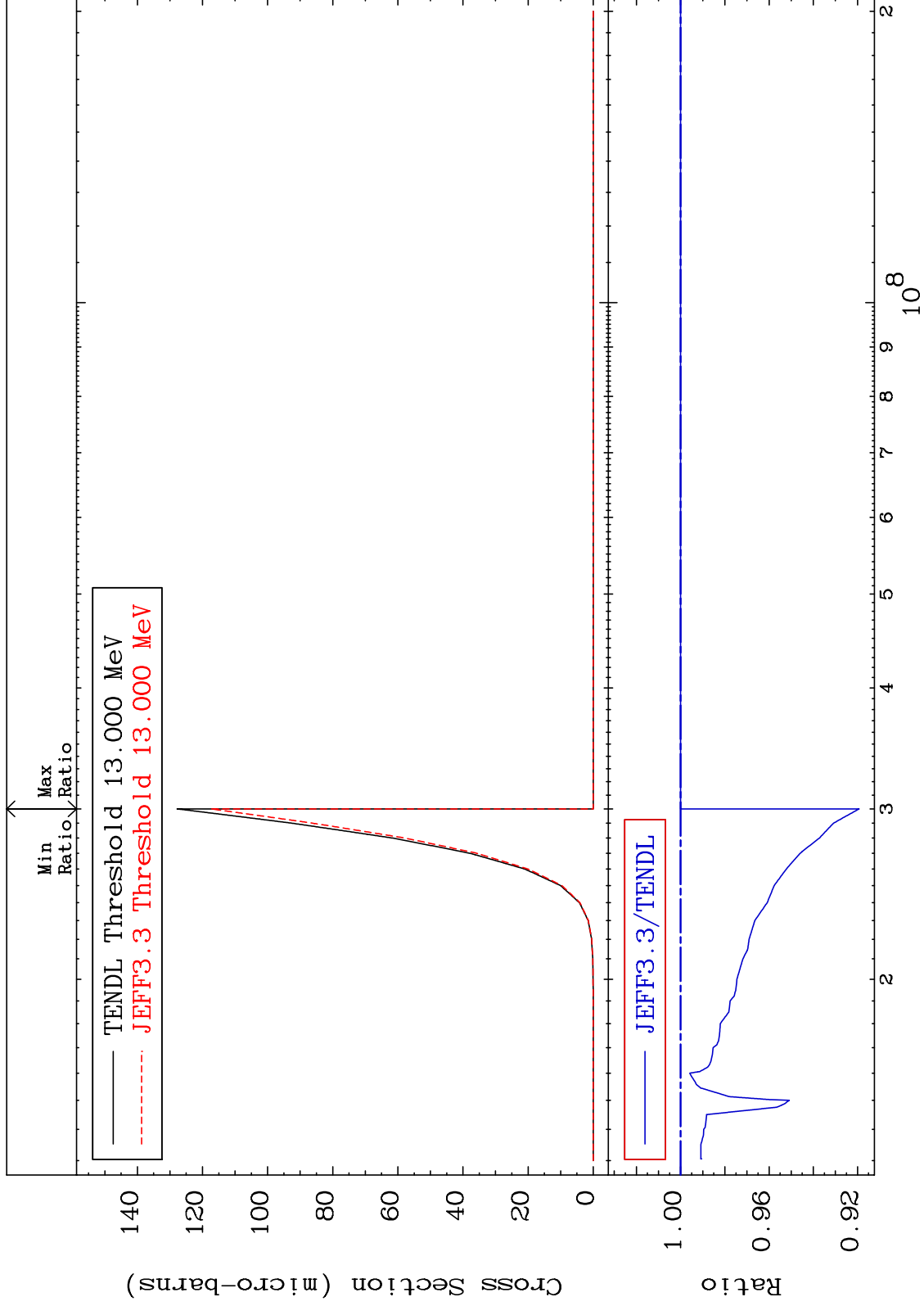
73-Ta-180

MAT 7326

(n, He-3): 71-Lu-178g

<sup>73</sup>Ta-180

Radionuclide Production Cross Section -8.074 To 0.000 %

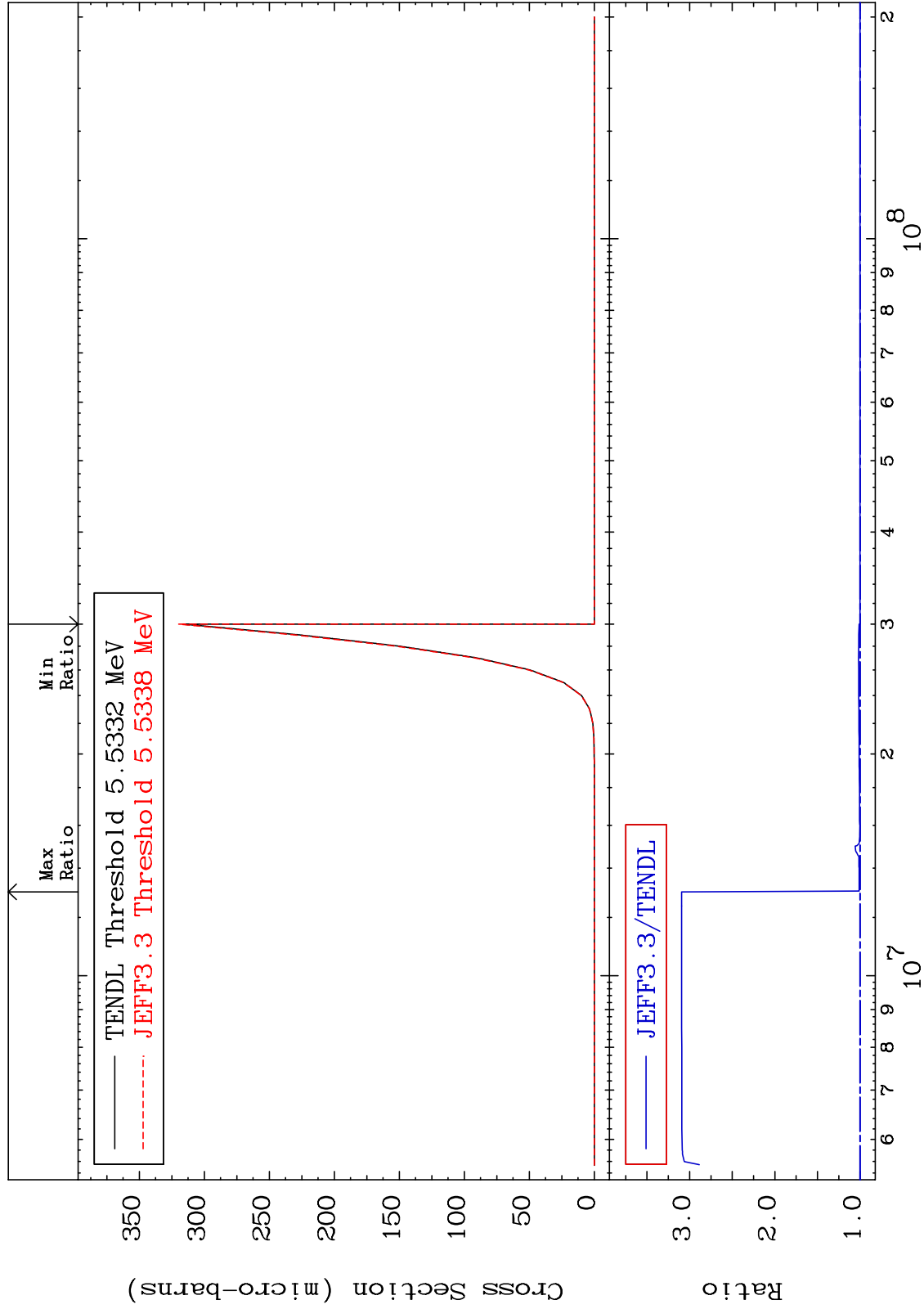


MAT 7326

(n, He-3) : 71-Lu-178m3

73-Ta-180

Radionuclide Production Cross Section 0.000 To 209.4 %



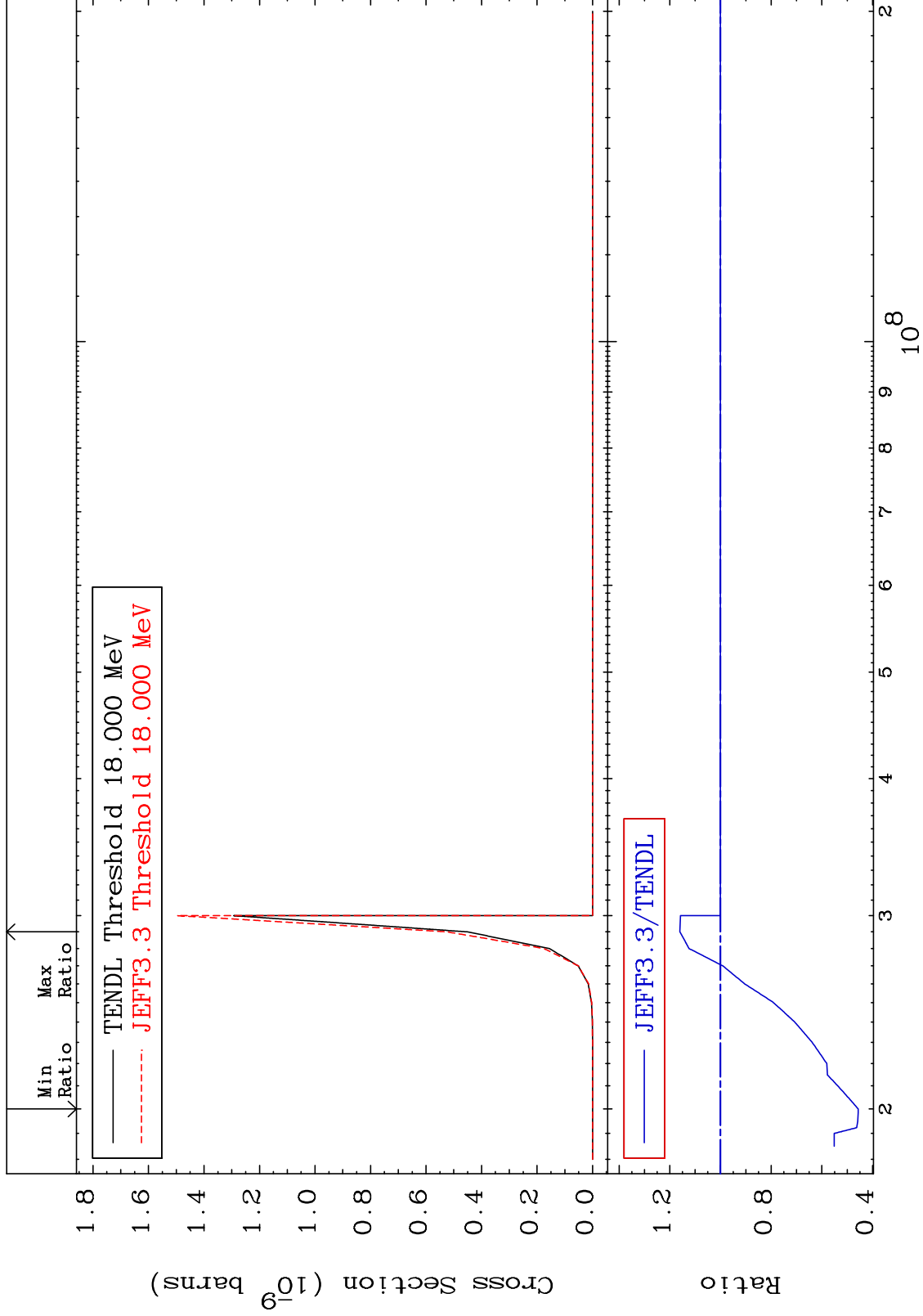


MAT 7326

(n, p) d:71-Lu-178g

<sup>73</sup>Ta-180

Radionuclide Production Cross Section -54.35 To 16.02 %

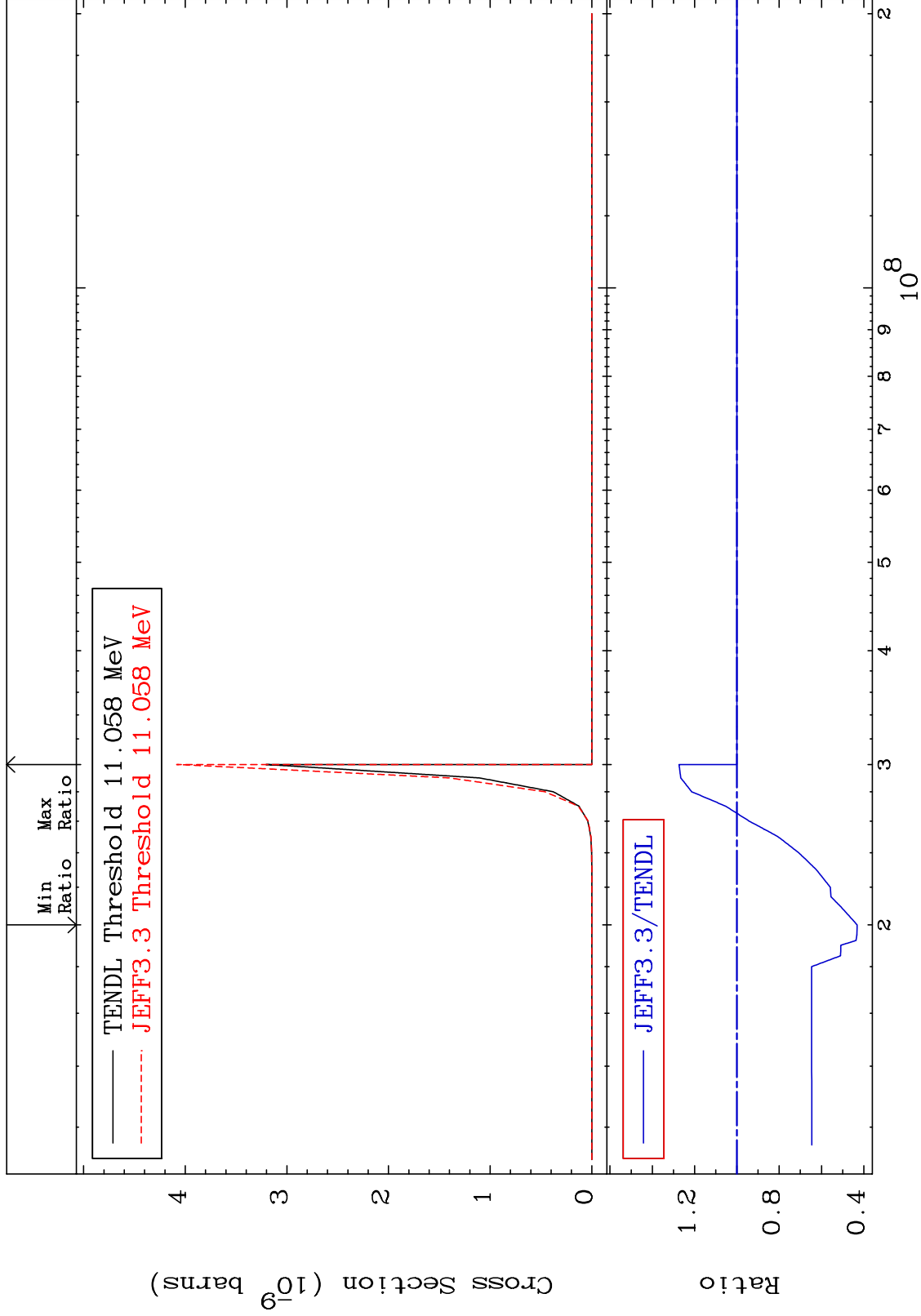


MAT 7326

(n, p) d:71-Lu-178m3

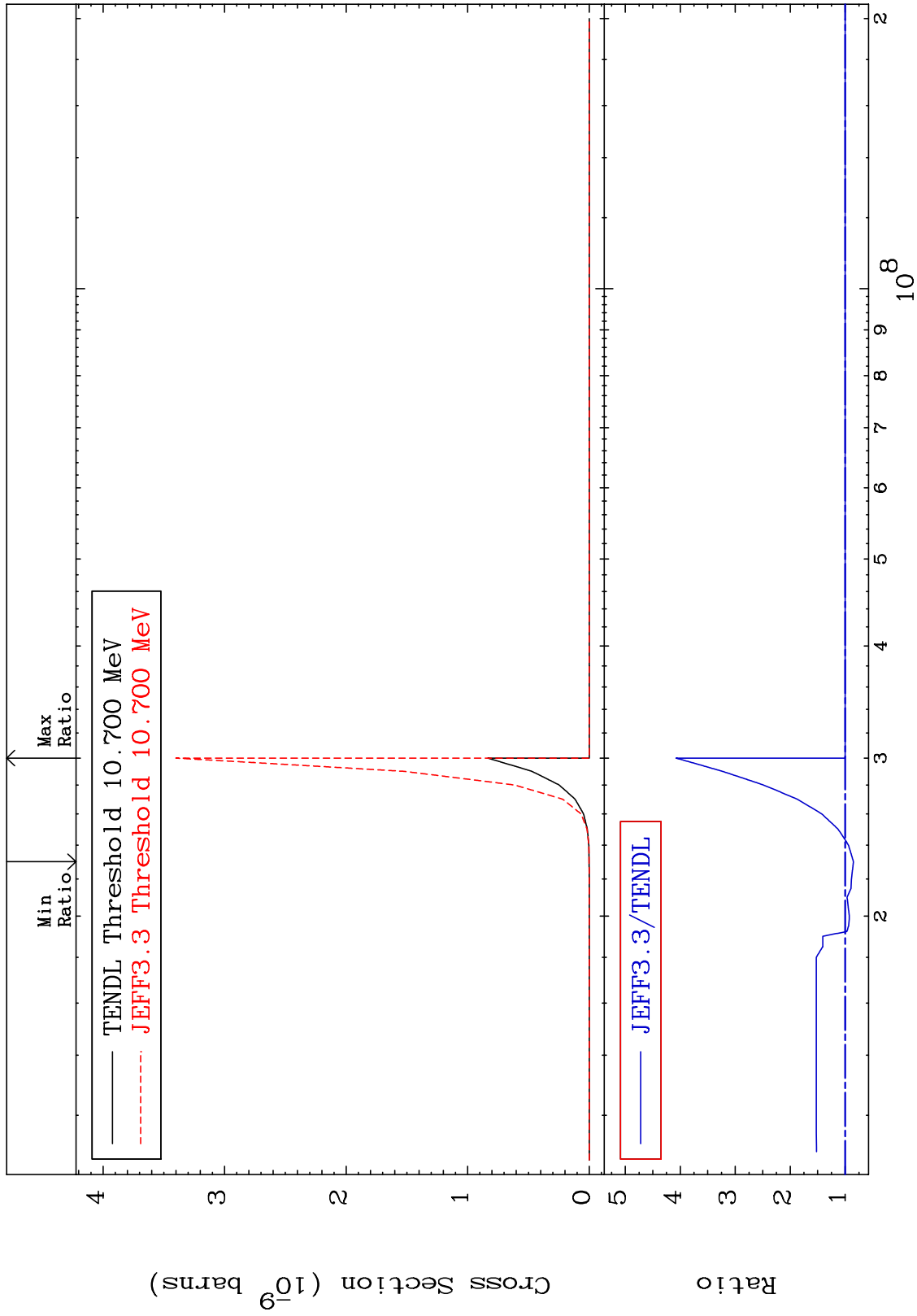
73-Ta-180

Radionuclide Production Cross Section -56.85 To 27.37 %



MAT 7326

(n, p) t:71-Lu-177g <sup>73</sup>Ta-180  
Radionuclide Production Cross Section -14.98 To 307.7 %



106

Incident Energy (eV)

<sup>73</sup>Ta-180