

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

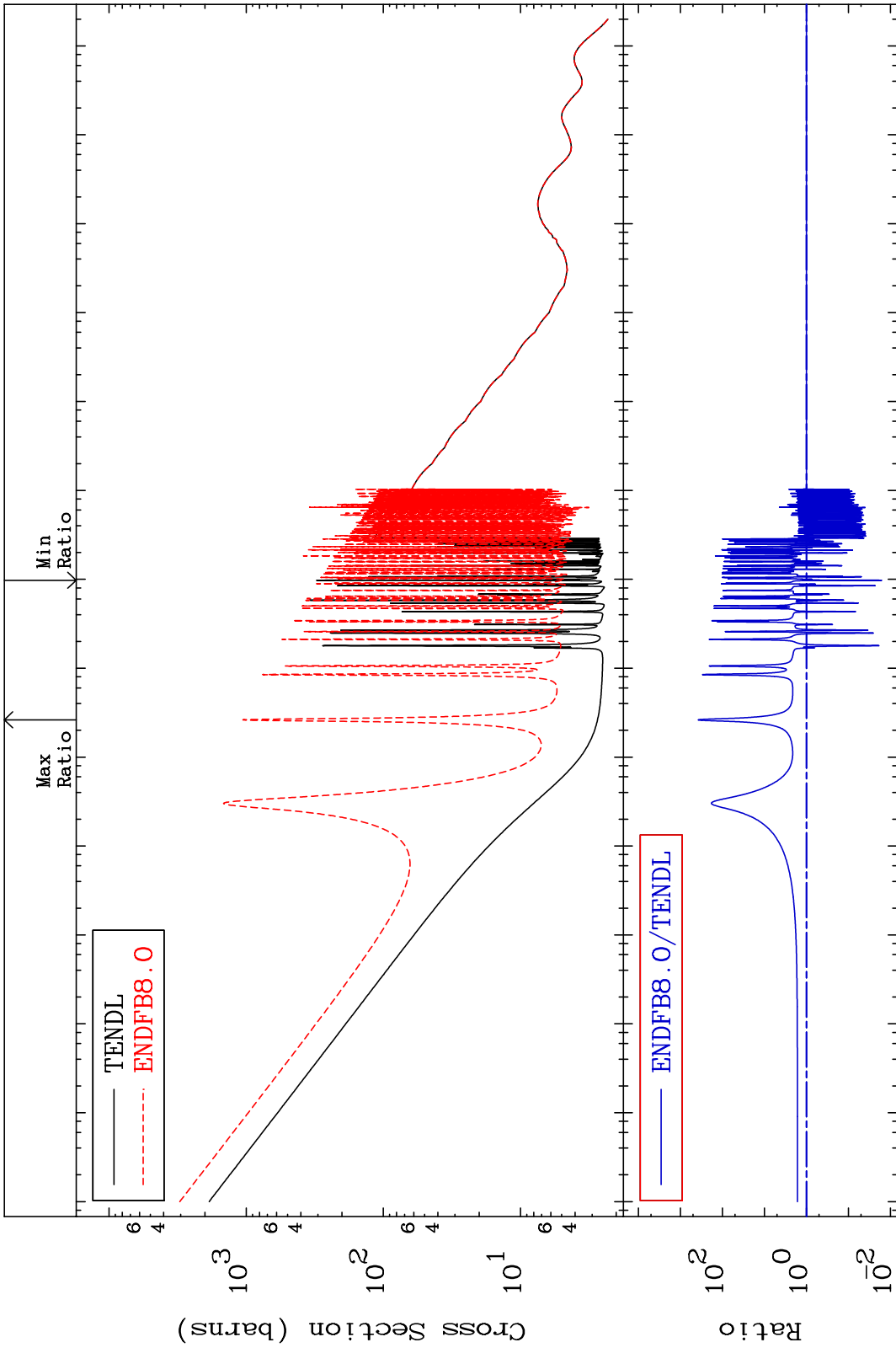
MAT 6143

Total

61-Pm-145

Cross Section

-98.37 To 9999. %



10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

10⁸ 10⁷ 10⁶ 10⁵ 10⁴ 10³ 10² 10¹ 10⁰ 10⁻¹ 10⁻² 10⁻³ 10⁻⁴ 10⁻⁵

Incident Energy (eV)

61-Pm-145

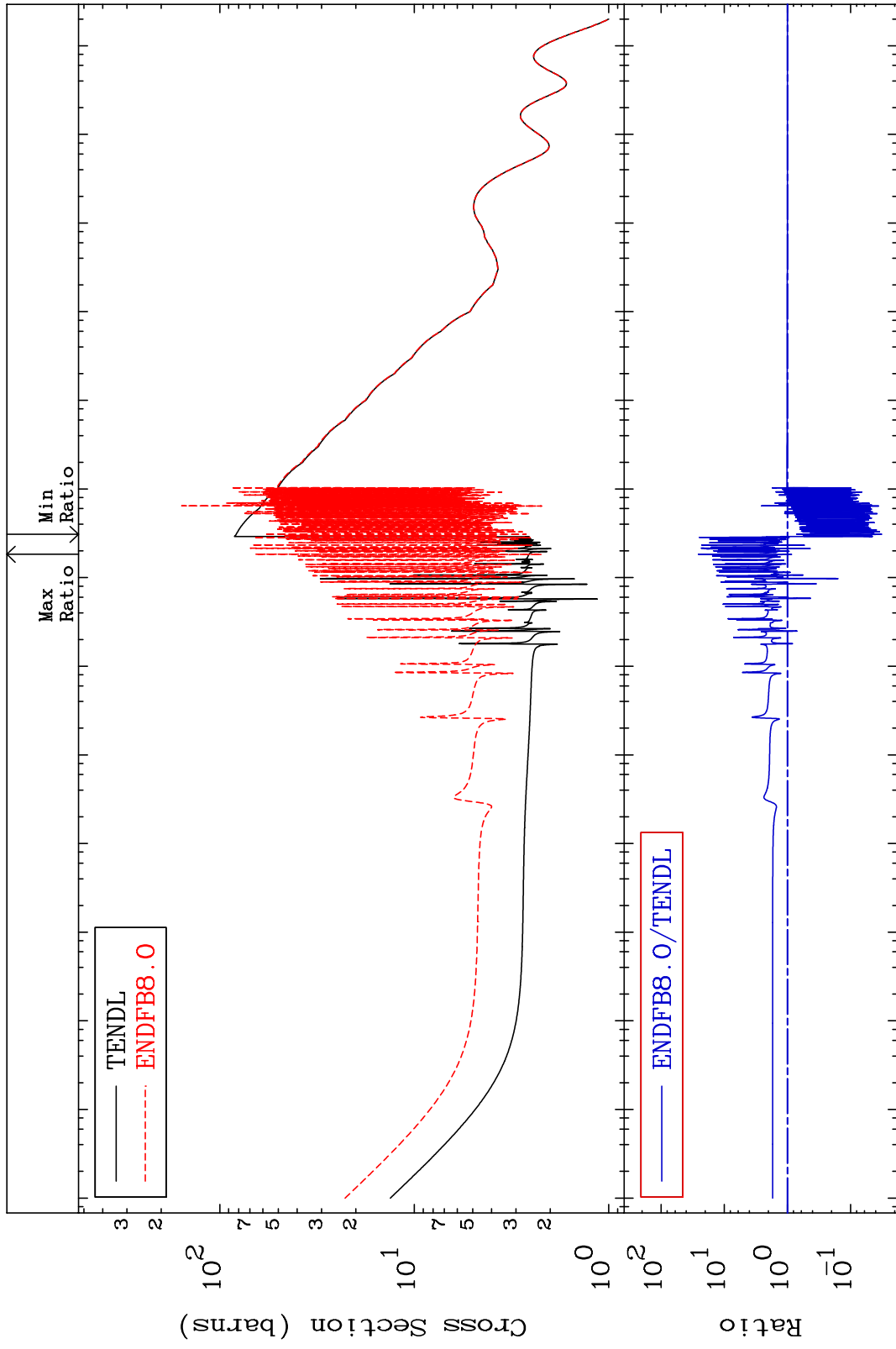
MAT 6143

Elastic

61-Pm-145

Cross Section

-96.78 To 2471. %



2

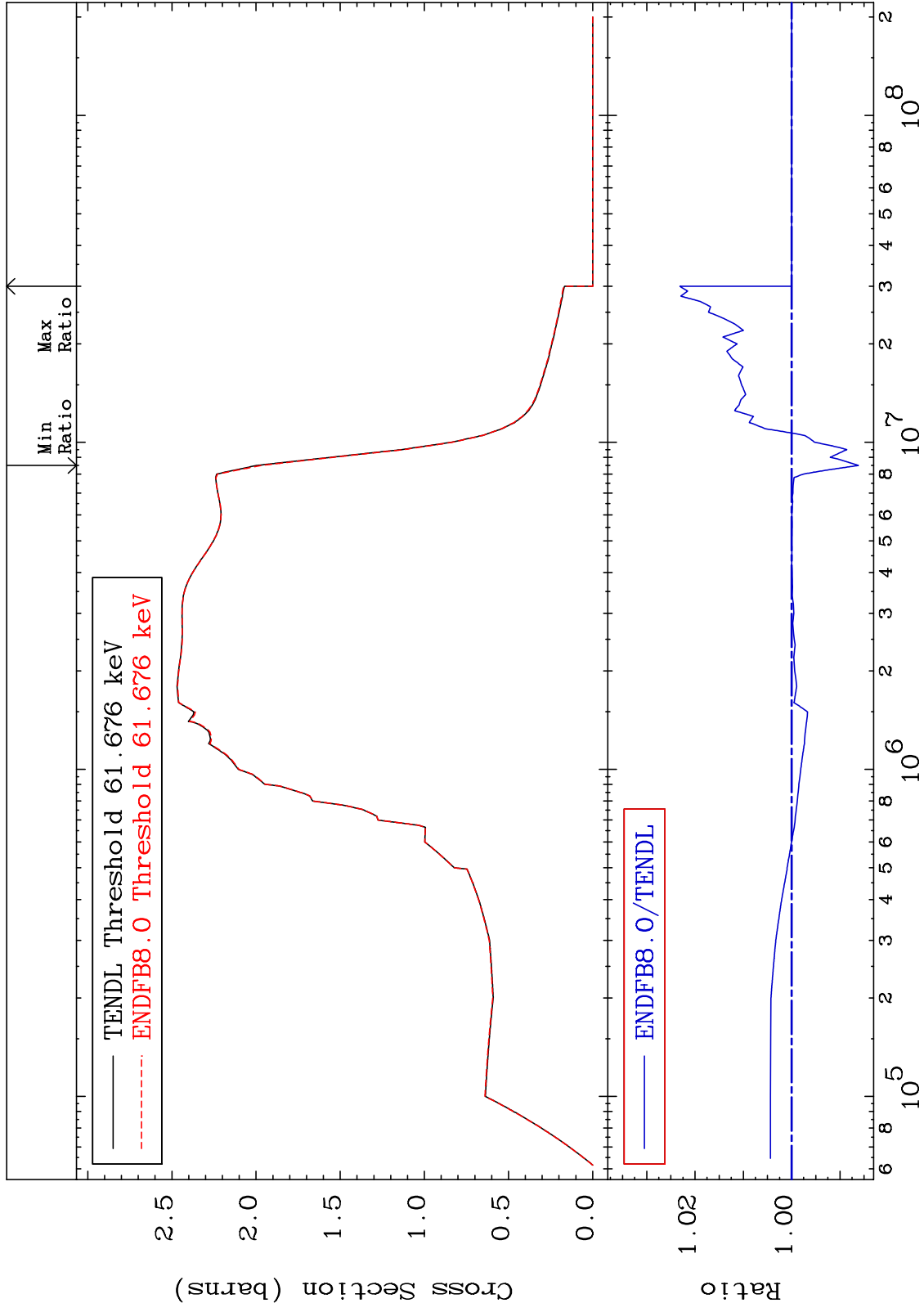
Incident Energy (eV)

61-Pm-145

MAT 6143

Inelastic
Cross Section

61-Pm-145
-1.382 To 2.311 %



3

Incident Energy (eV)

61-Pm-145

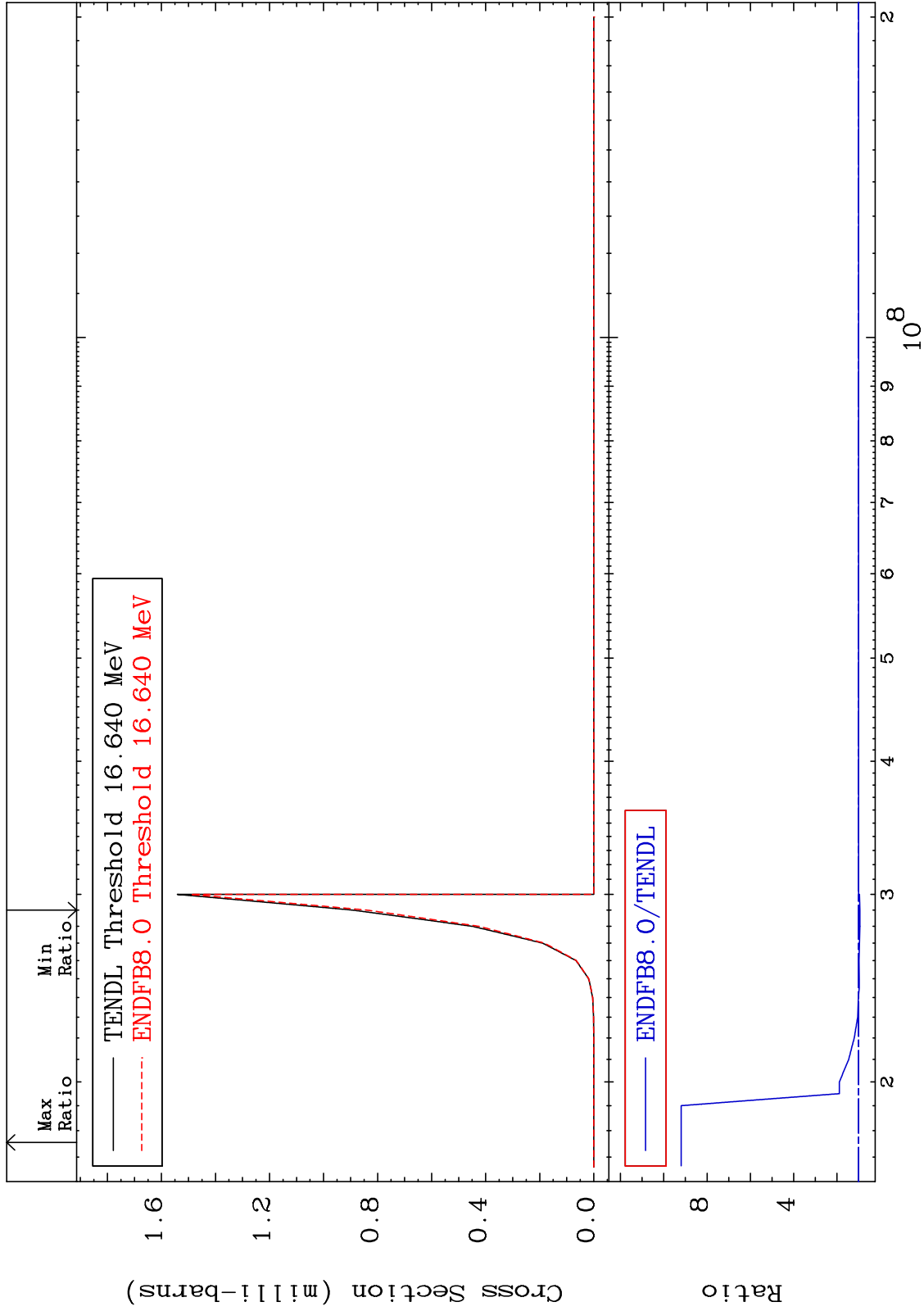
MAT 6143

(n,2n) d

61-Pm-145

Cross Section

-5.833 To 819.3 %



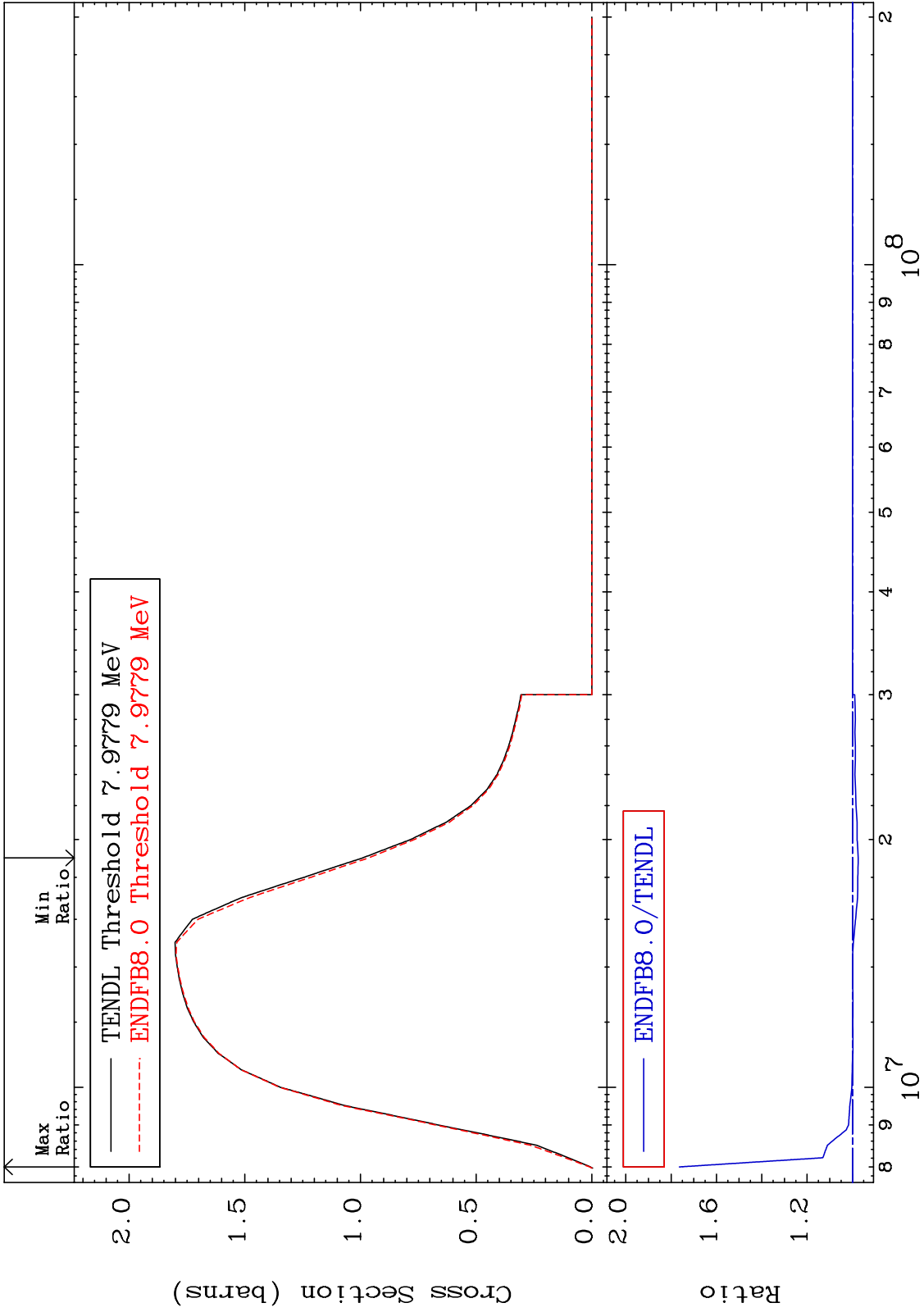
MAT 6143

(n,2n)

61-Pm-145

Cross Section

-2.564 To 76.36 %



61-Pm-145

Incident Energy (eV)

5

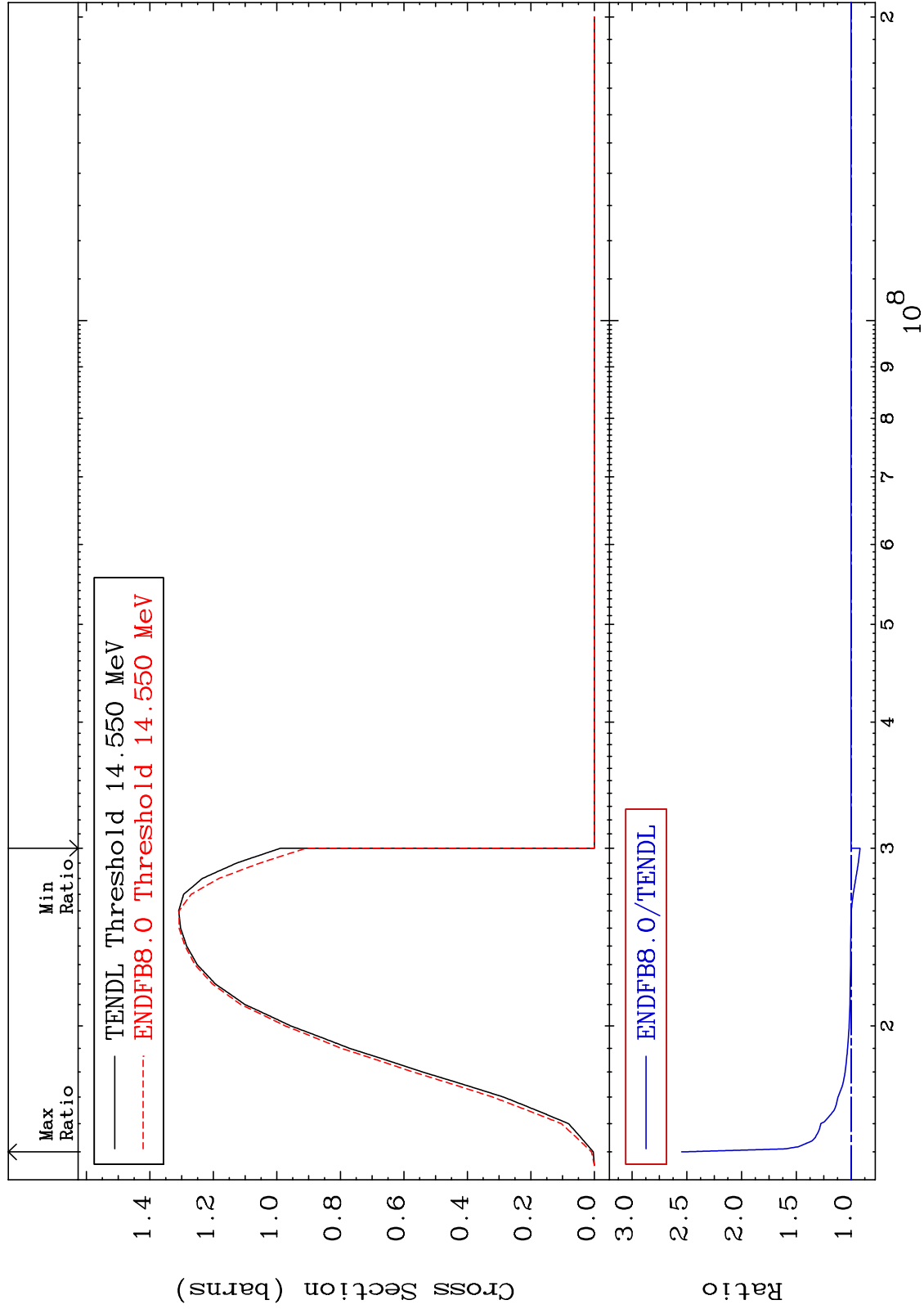
MAT 6143

(n,3n)

61-Pm-145

Cross Section

-8.113 To 154.7 %



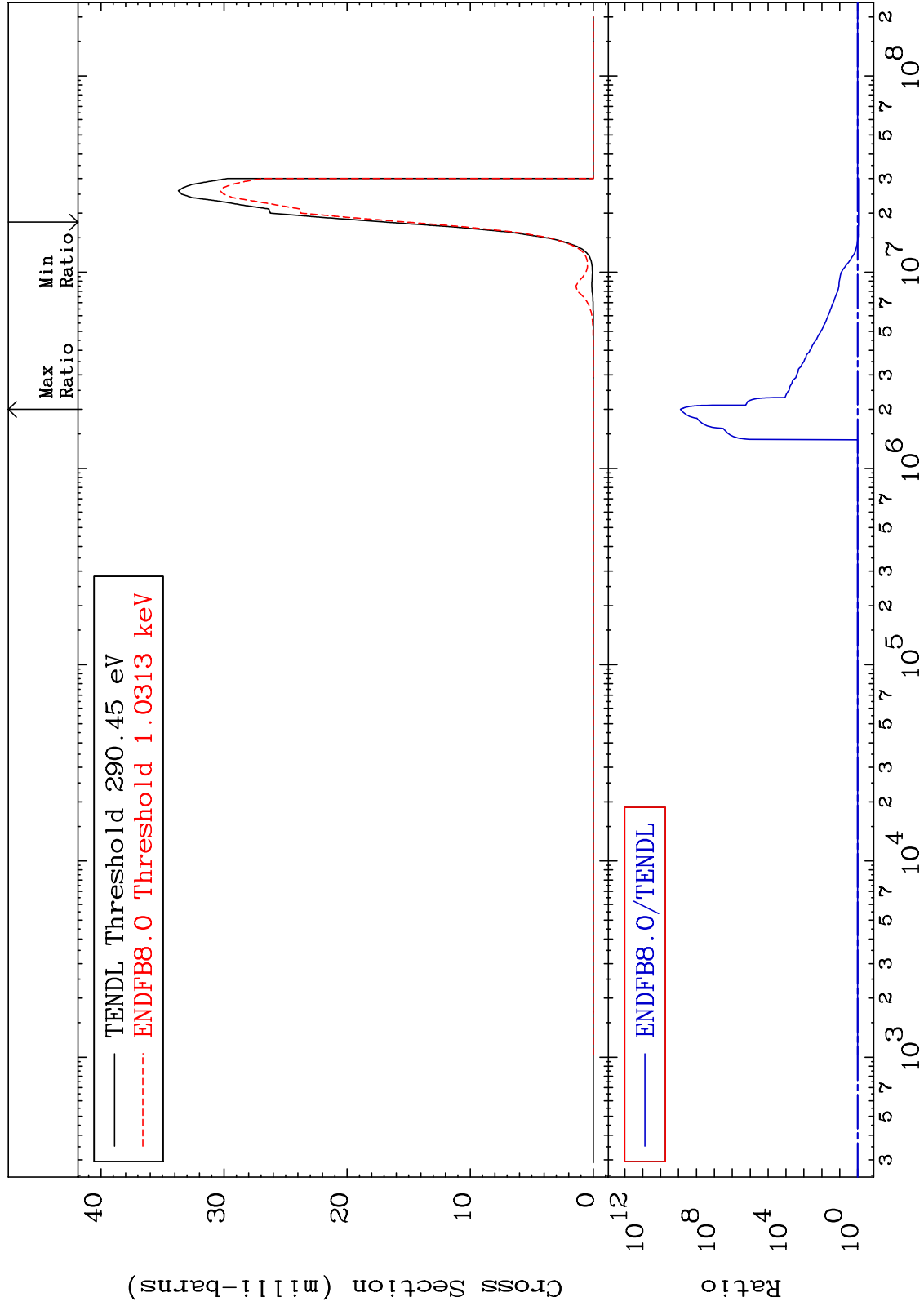
MAT 6143

(n, n') α

61-Pm-145

Cross Section

-10.53 To 9999. %



Incident Energy (eV)

61-Pm-145

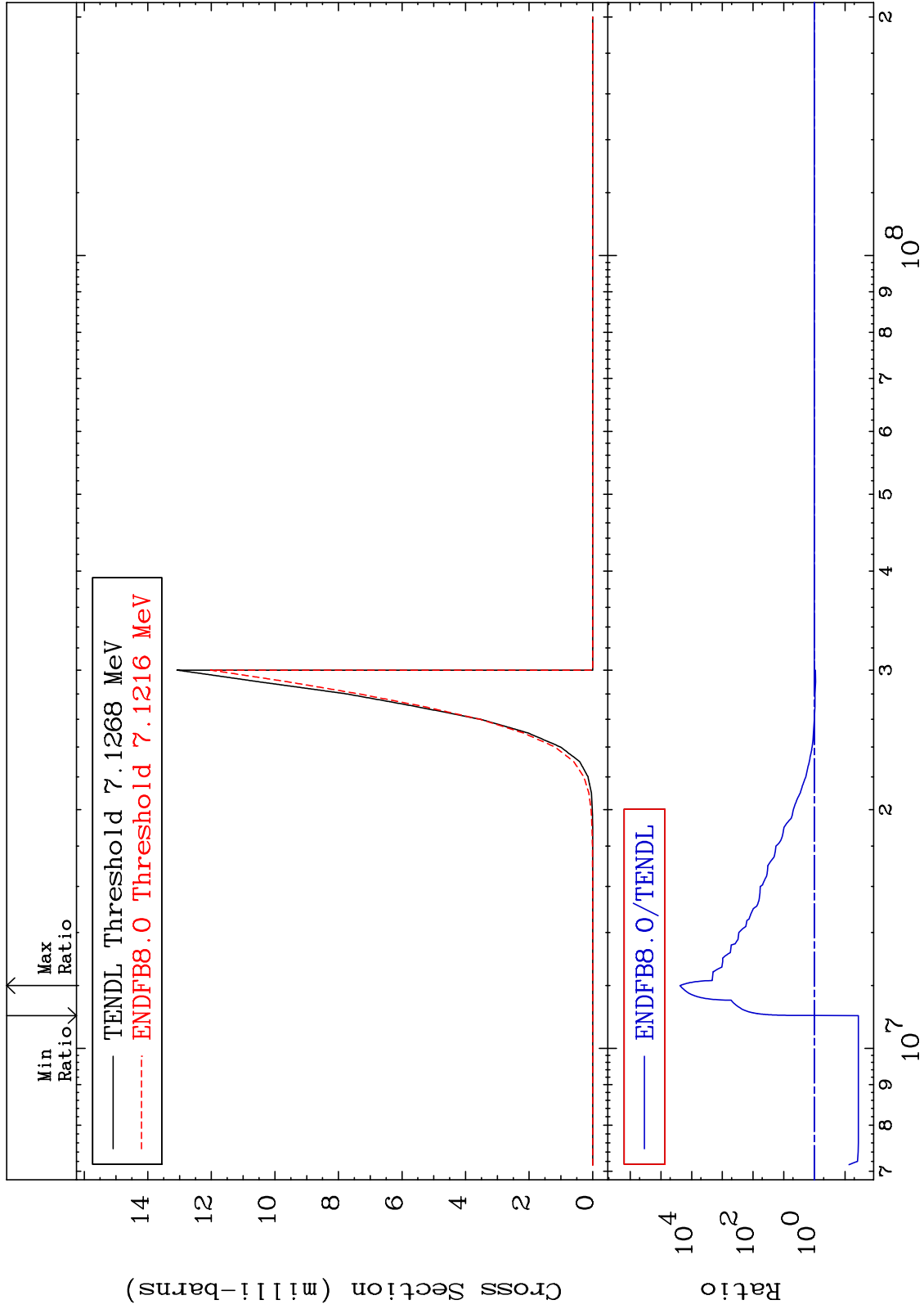
MAT 6143

(n,2n) α

61-Pm-145

Cross Section

-96.34 To 9999. %



8

Incident Energy (eV)

61-Pm-145

MAT 6143

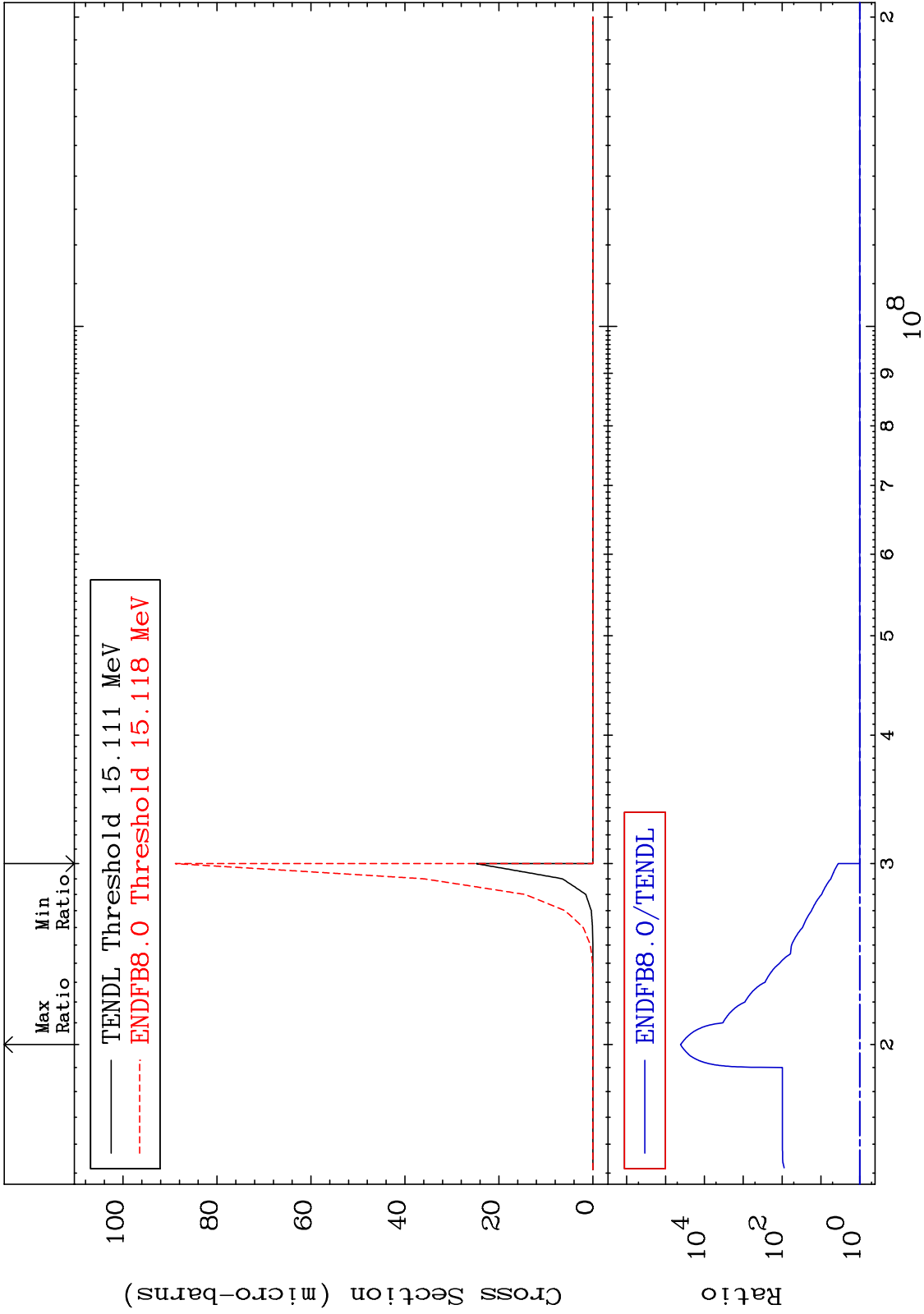
(n,3n) α

61-Pm-145

Cross Section

0.000

To 9999. %



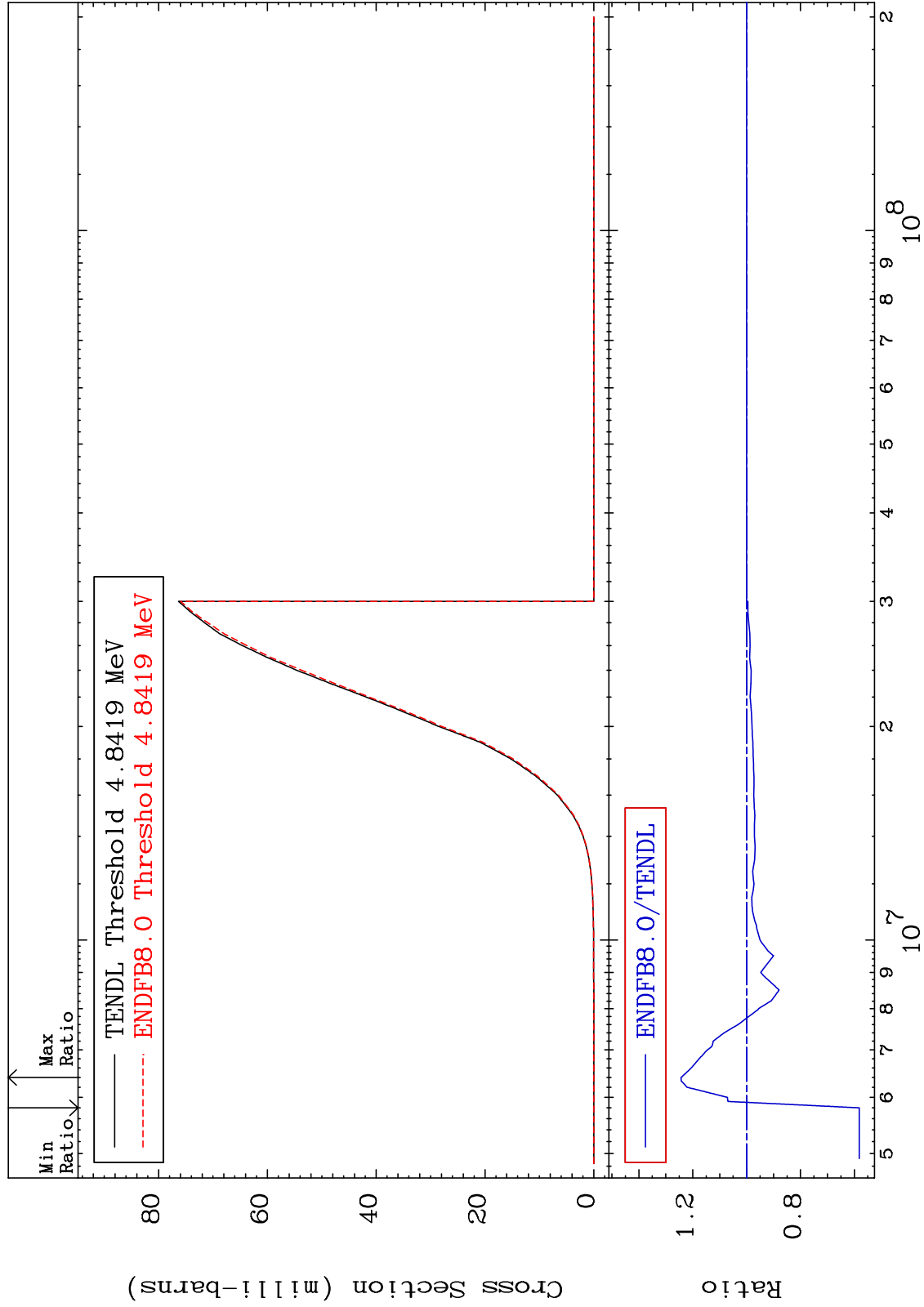
MAT 6143

(n,n') p

61-Pm-145

Cross Section

-41.83 To 24.33 %



10

Incident Energy (eV)

61-Pm-145

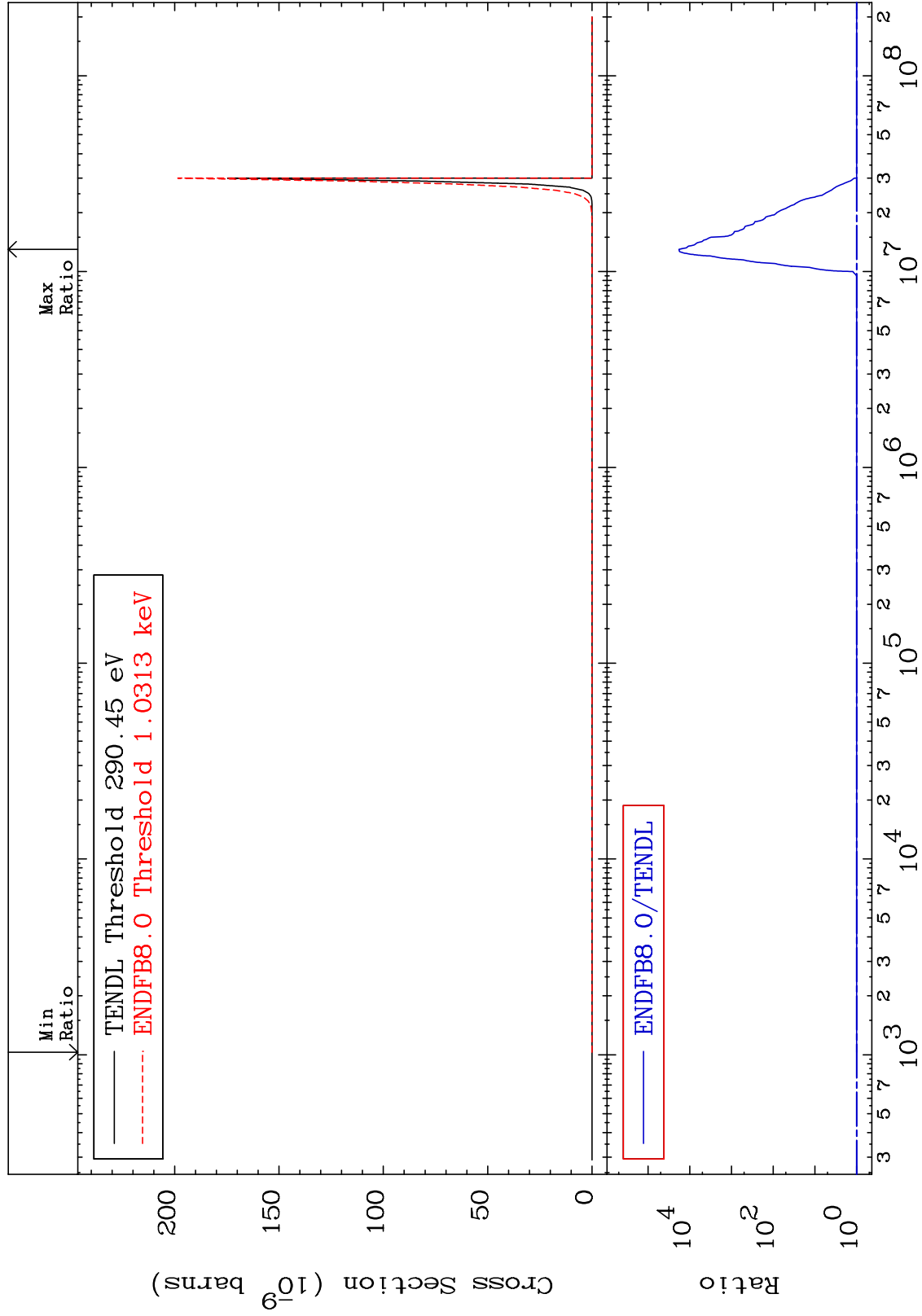
MAT 6143

(n, n') 2α

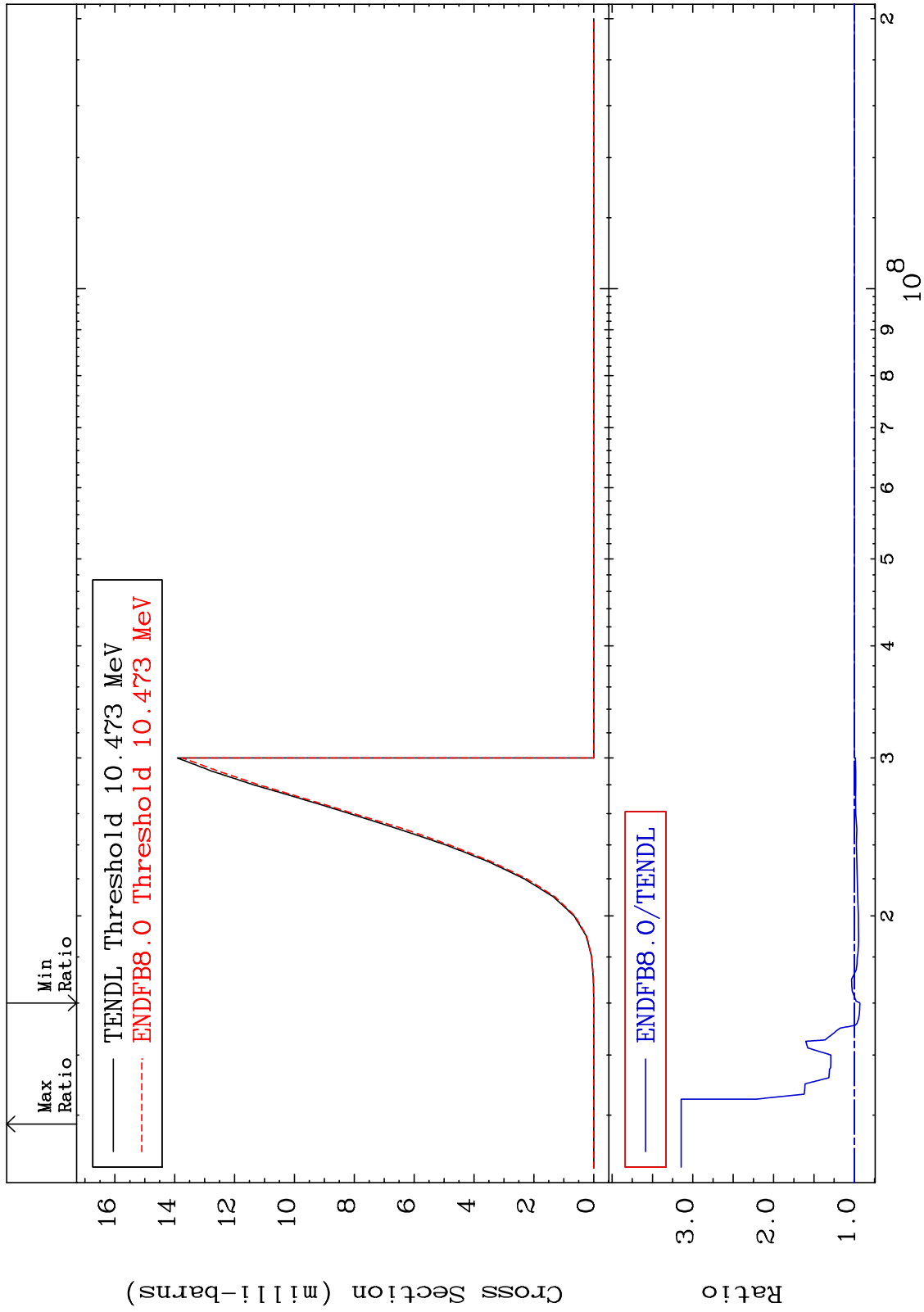
61-Pm-145

Cross Section

0.000 To 9999. %



MAT 6143 (n,n') d 61-Pm-145
 Cross Section -6.874 To 214.4 %



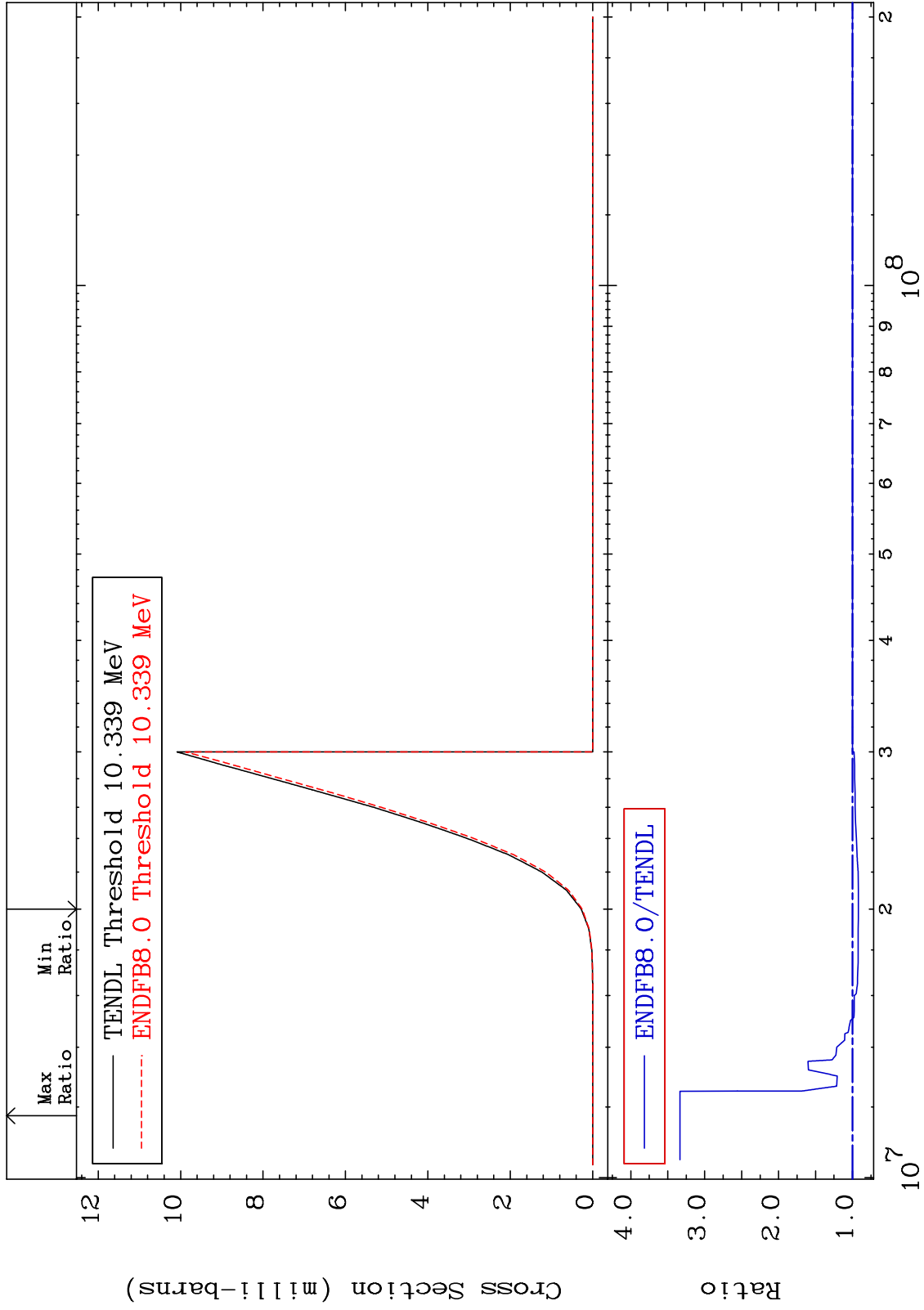
MAT 6143

(n,n') t

61-Pm-145

Cross Section

-8.008 To 233.4 %



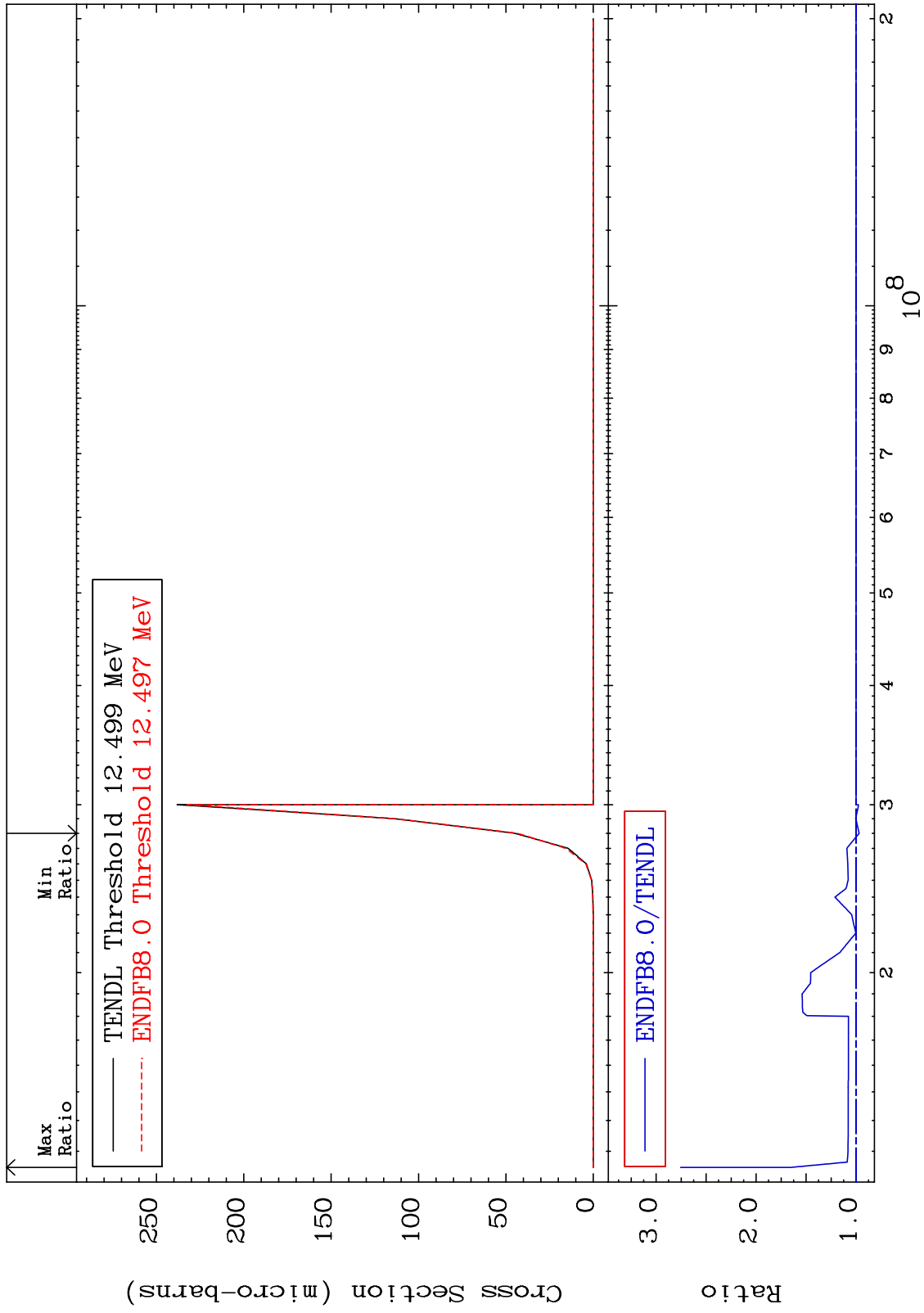
61-Pm-145

13

MAT 6143

(n, n') He-3
Cross Section

61-Pm-145
-3.078 To 175.5 %



MAT 6143

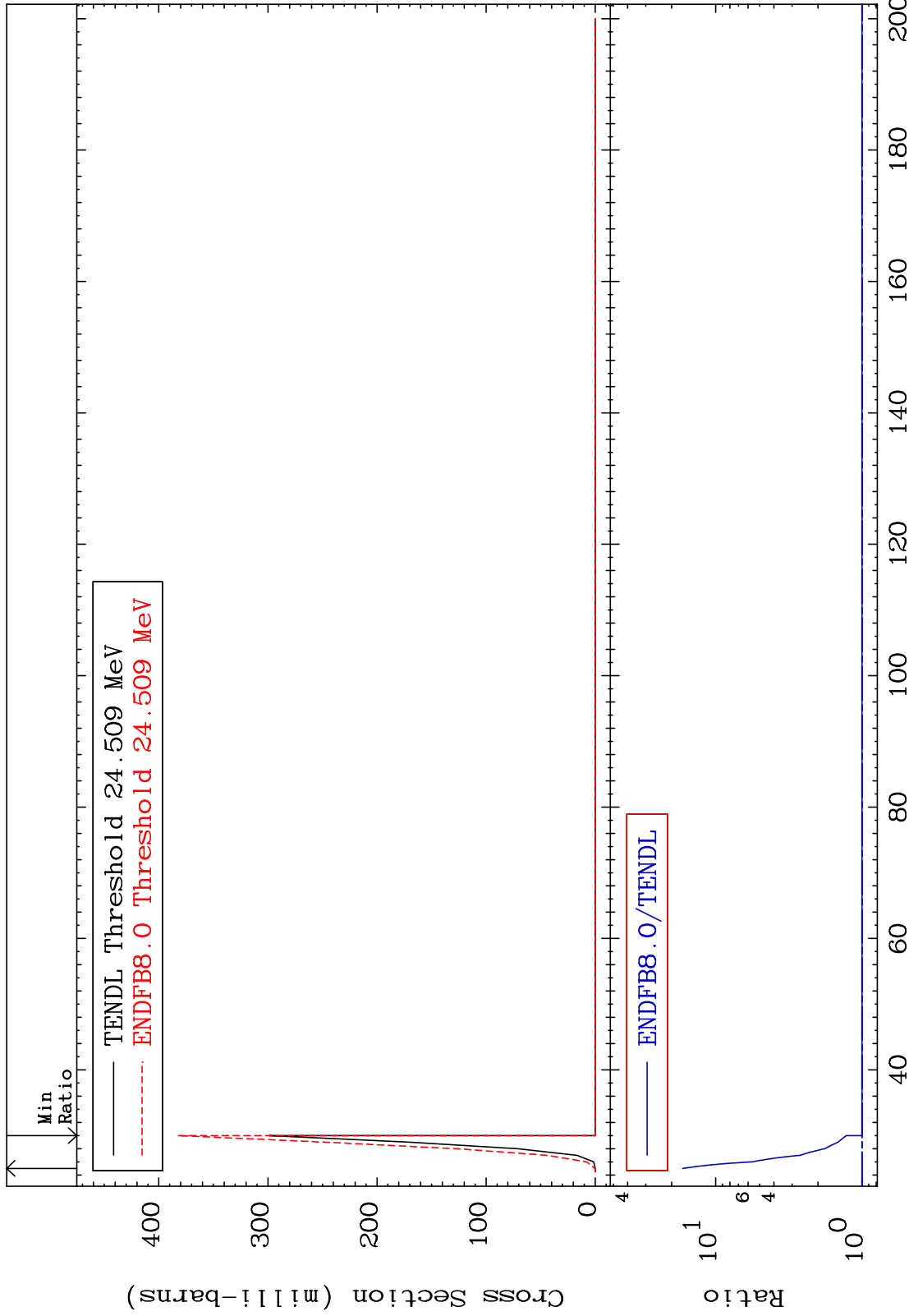
(n, 4n)

61-Pm-145

Cross Section

0.000

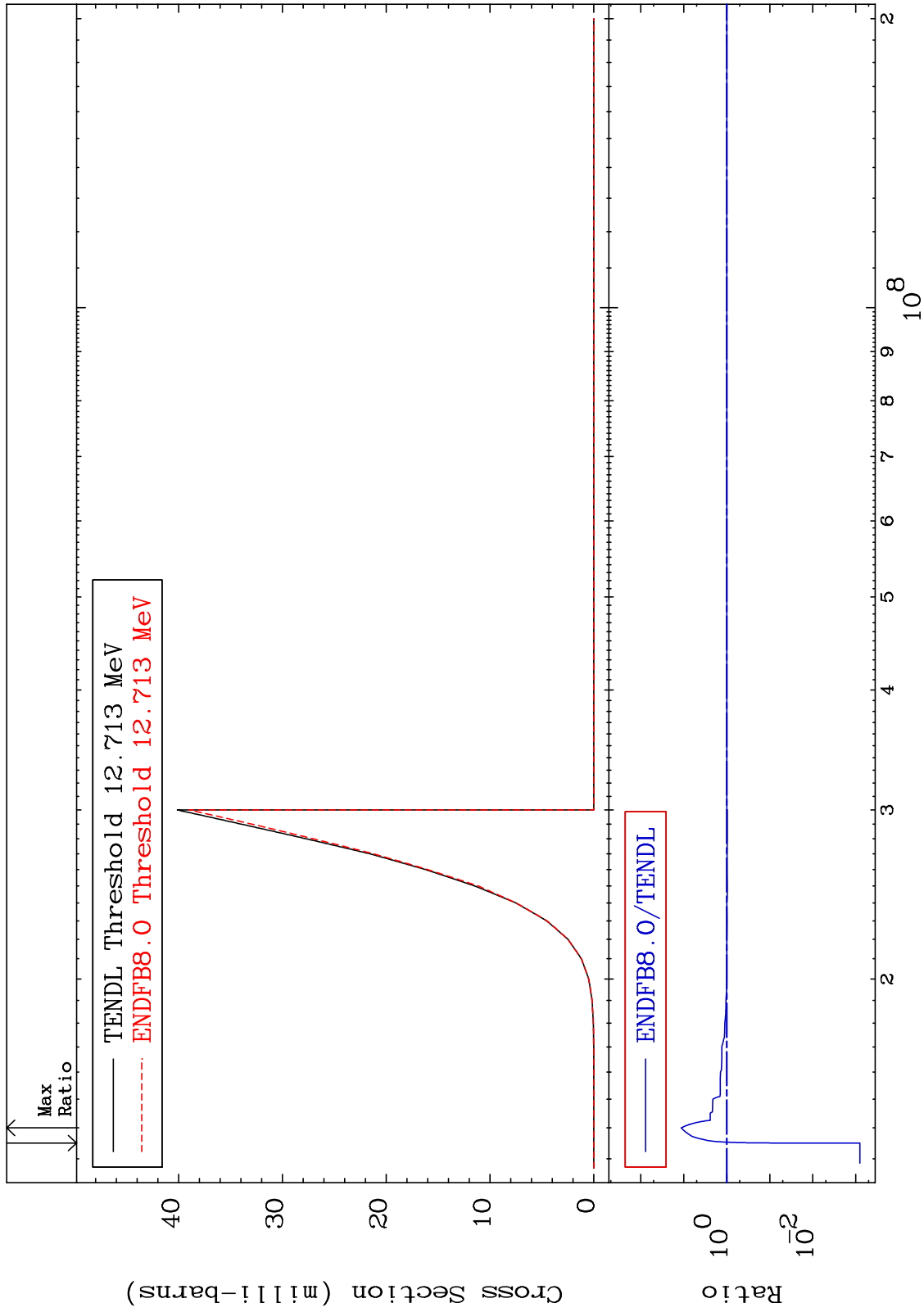
To 1576. %



MAT 6143

(n,2n) p
Cross Section

61-Pm-145
-99.92 To 1047. %



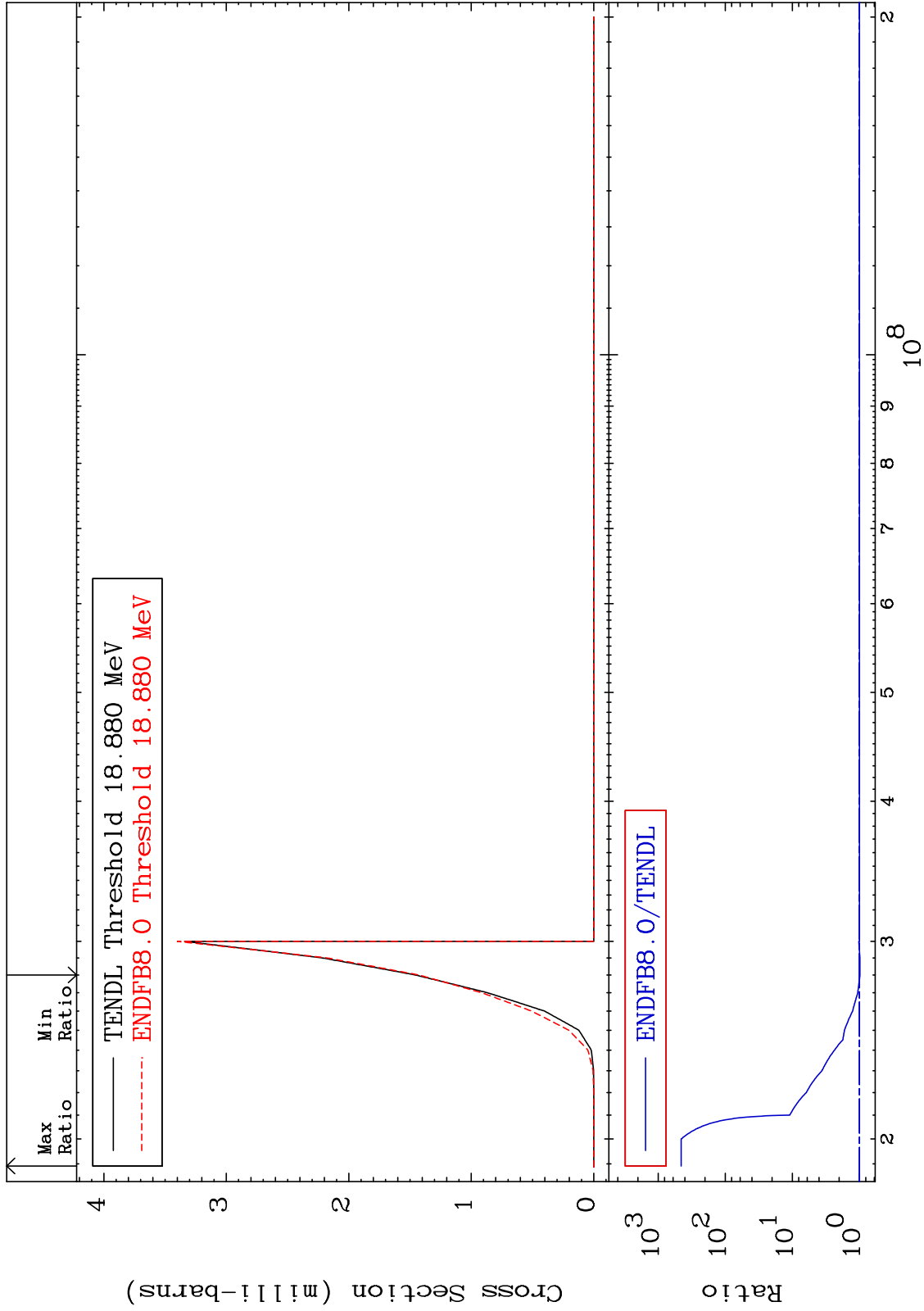
MAT 6143

(n,3n) p

61-Pm-145

Cross Section

-1.908 To 9999. %



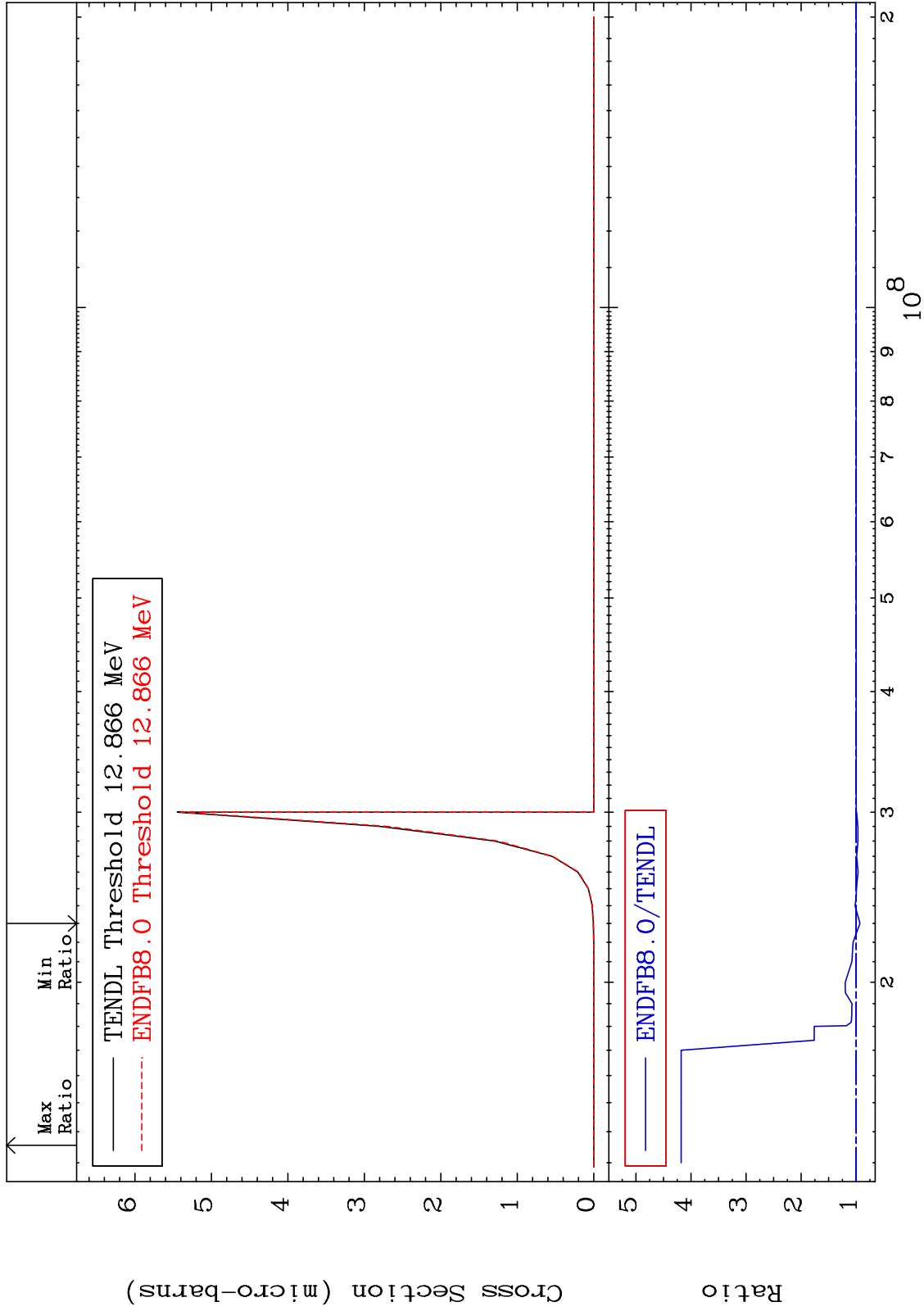
MAT 6143

(n,2n) p

61-Pm-145

Cross Section

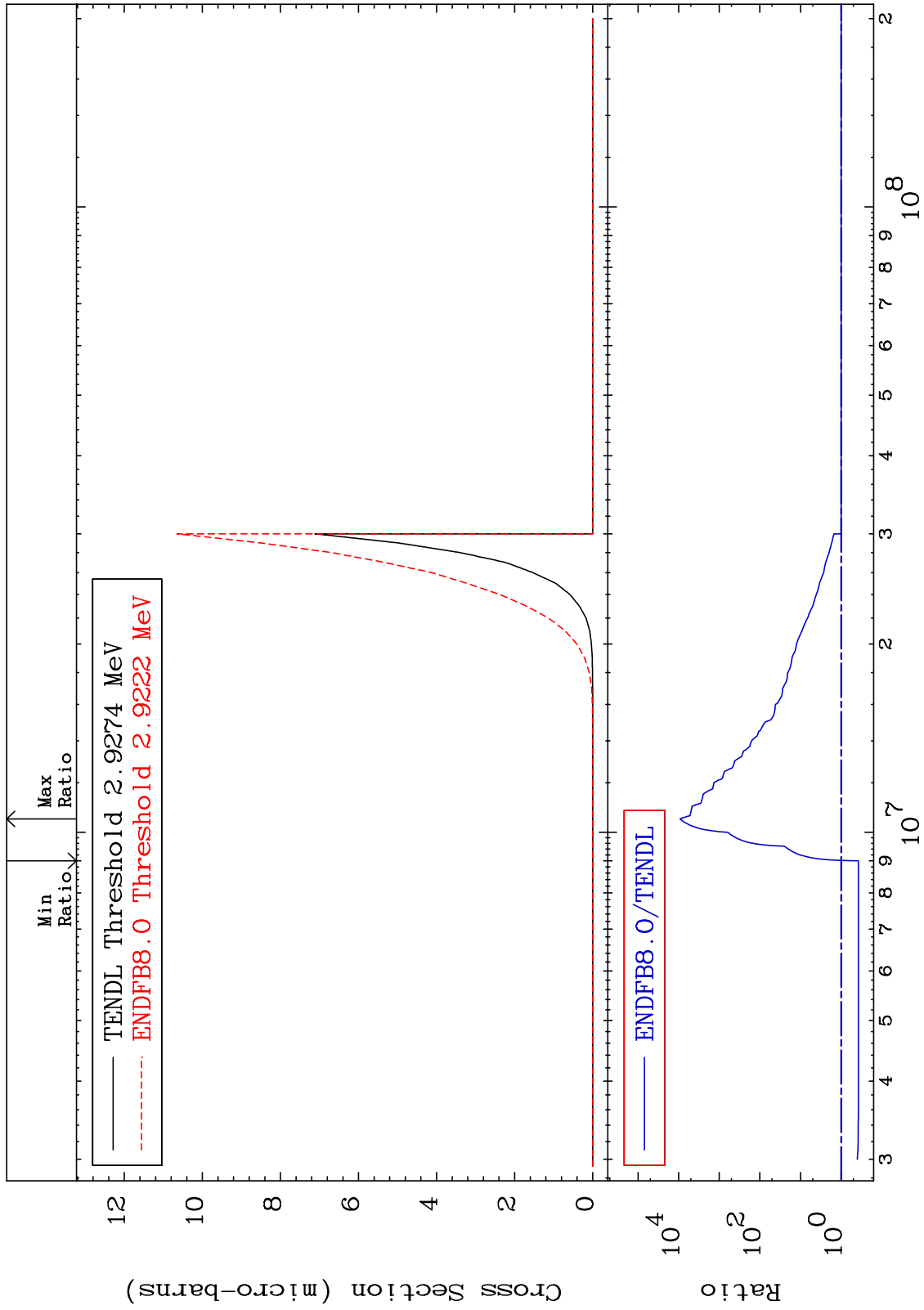
-6.972 To 317.8 %



MAT 6143

(n,n') p α
Cross Section

61-Pm-145
-62.52 To 9999. %



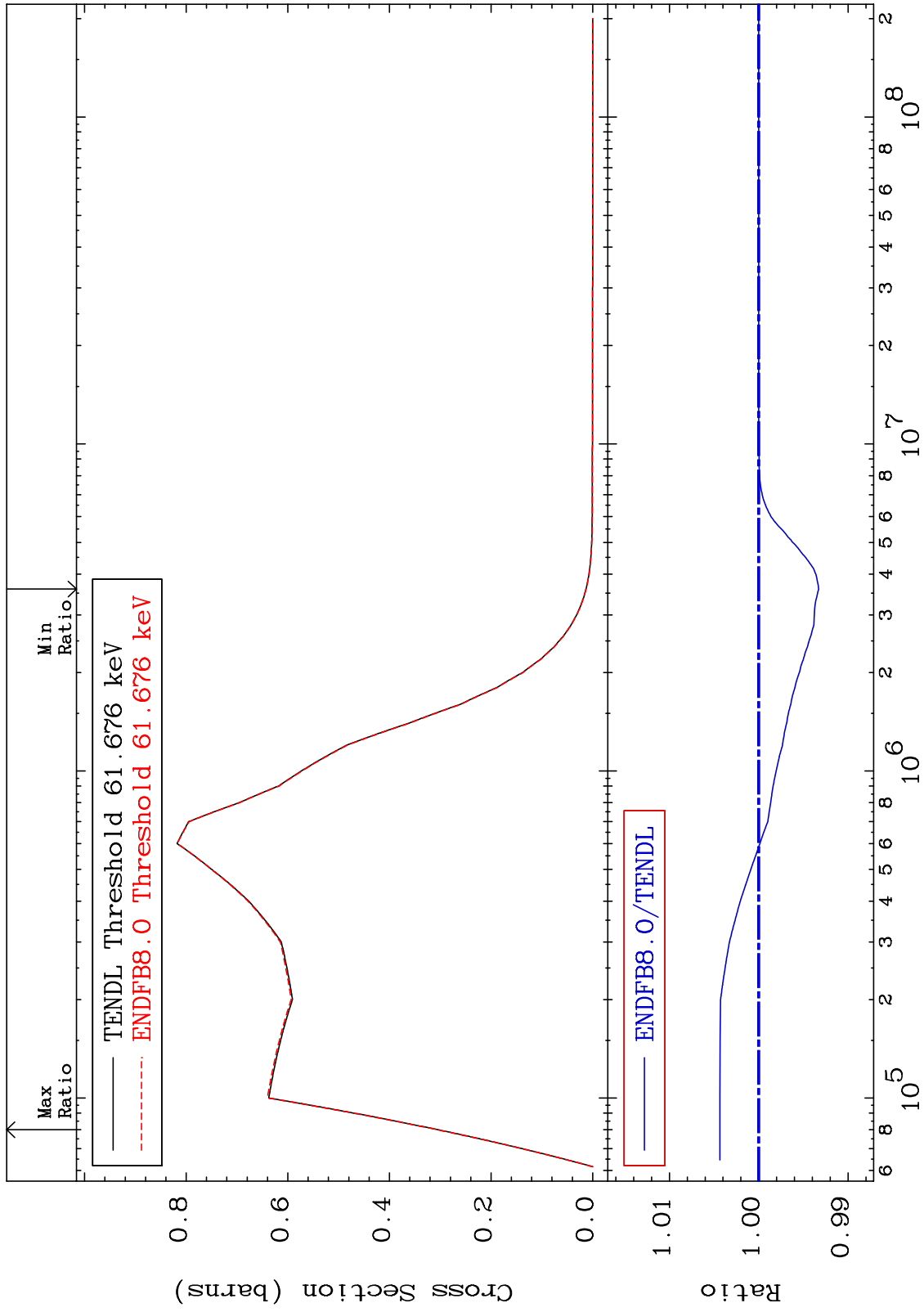
61-Pm-145

Incident Energy (eV)

MAT 6143

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

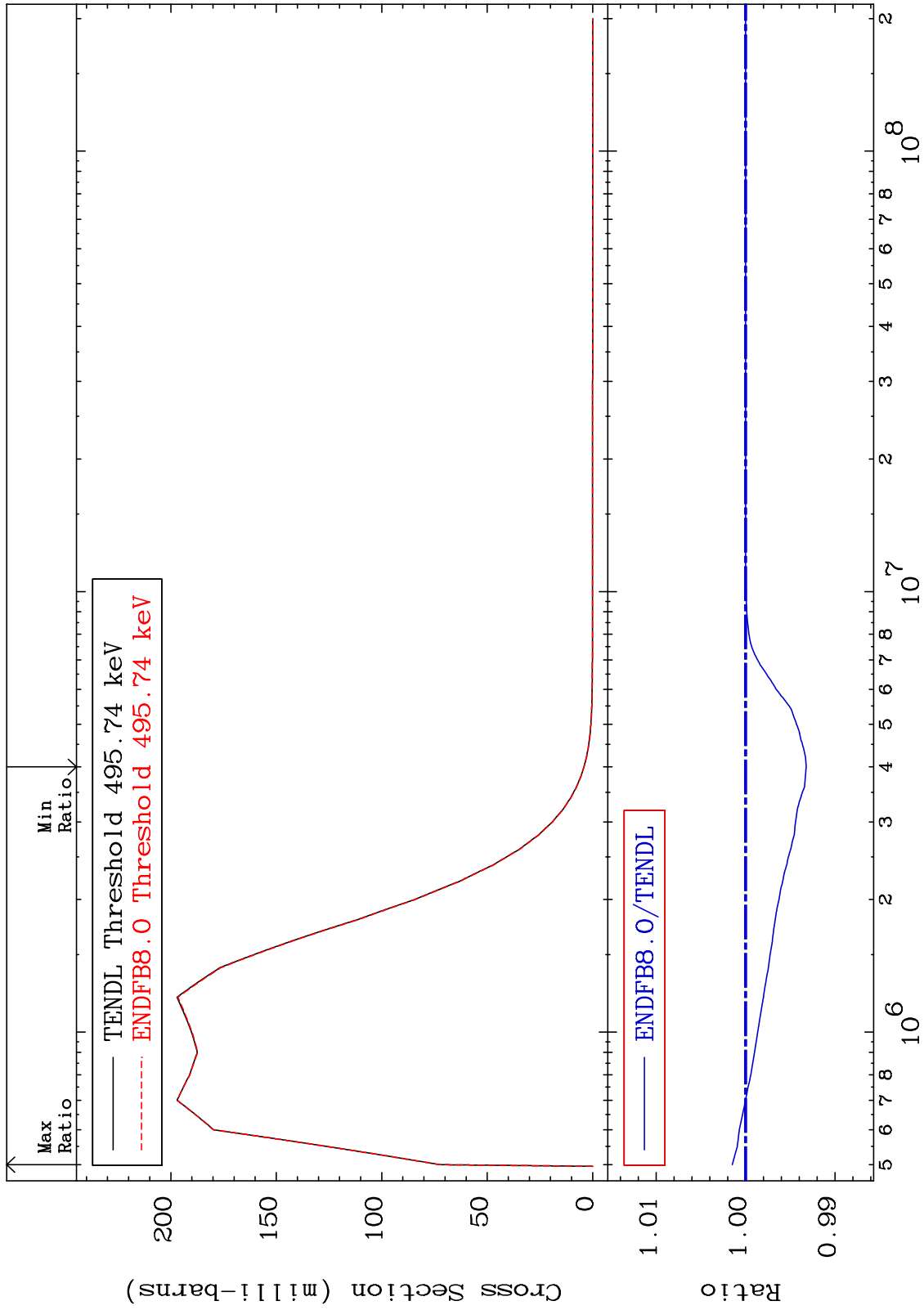
61-Pm-145
-0.671 To 0.436 %



20

61-Pm-145

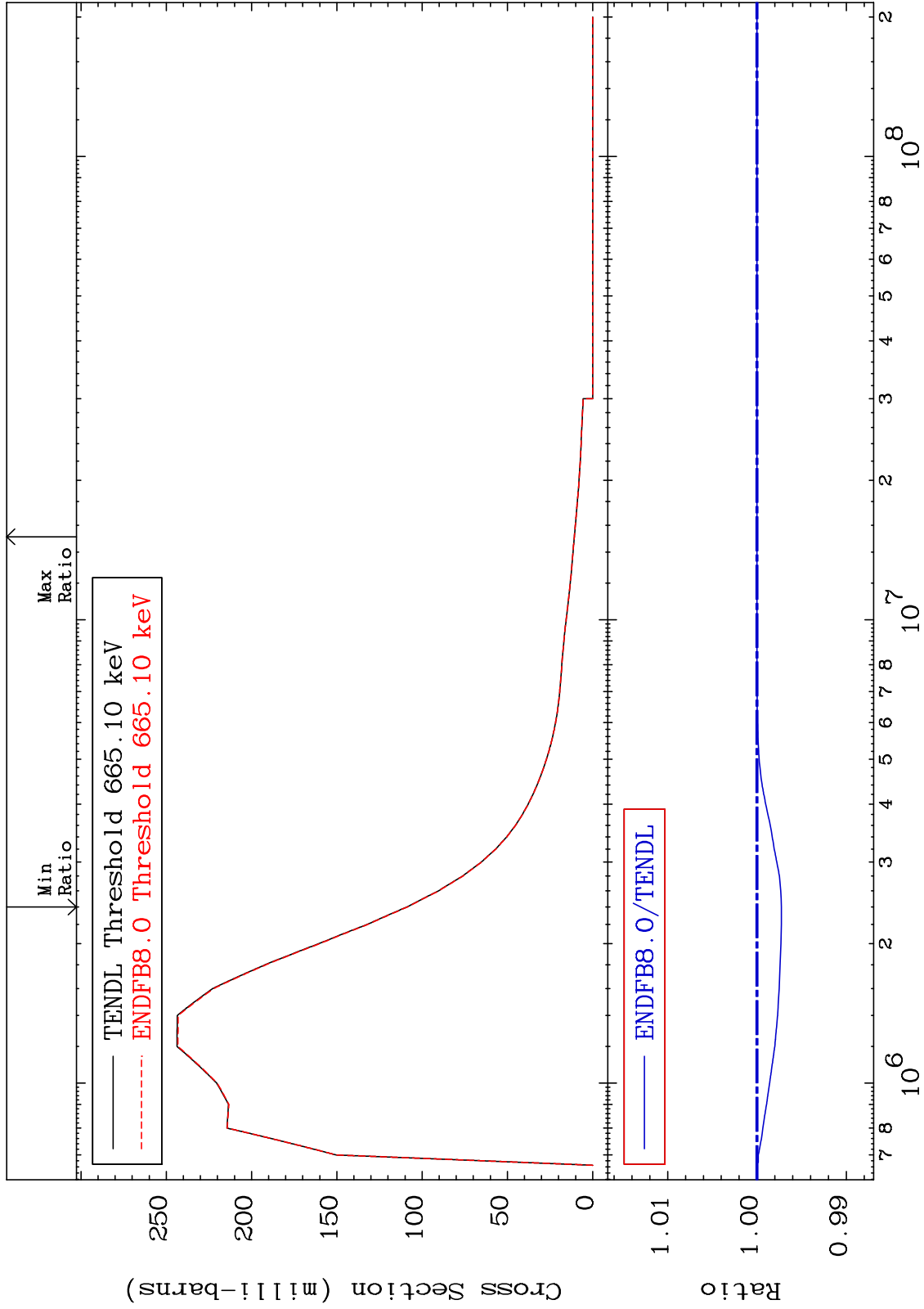
MAT 6143 MT= 52 (n,n') Level Cross Section 61-Pm-145 -0.677 To 0.149 %



MAT 6143

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

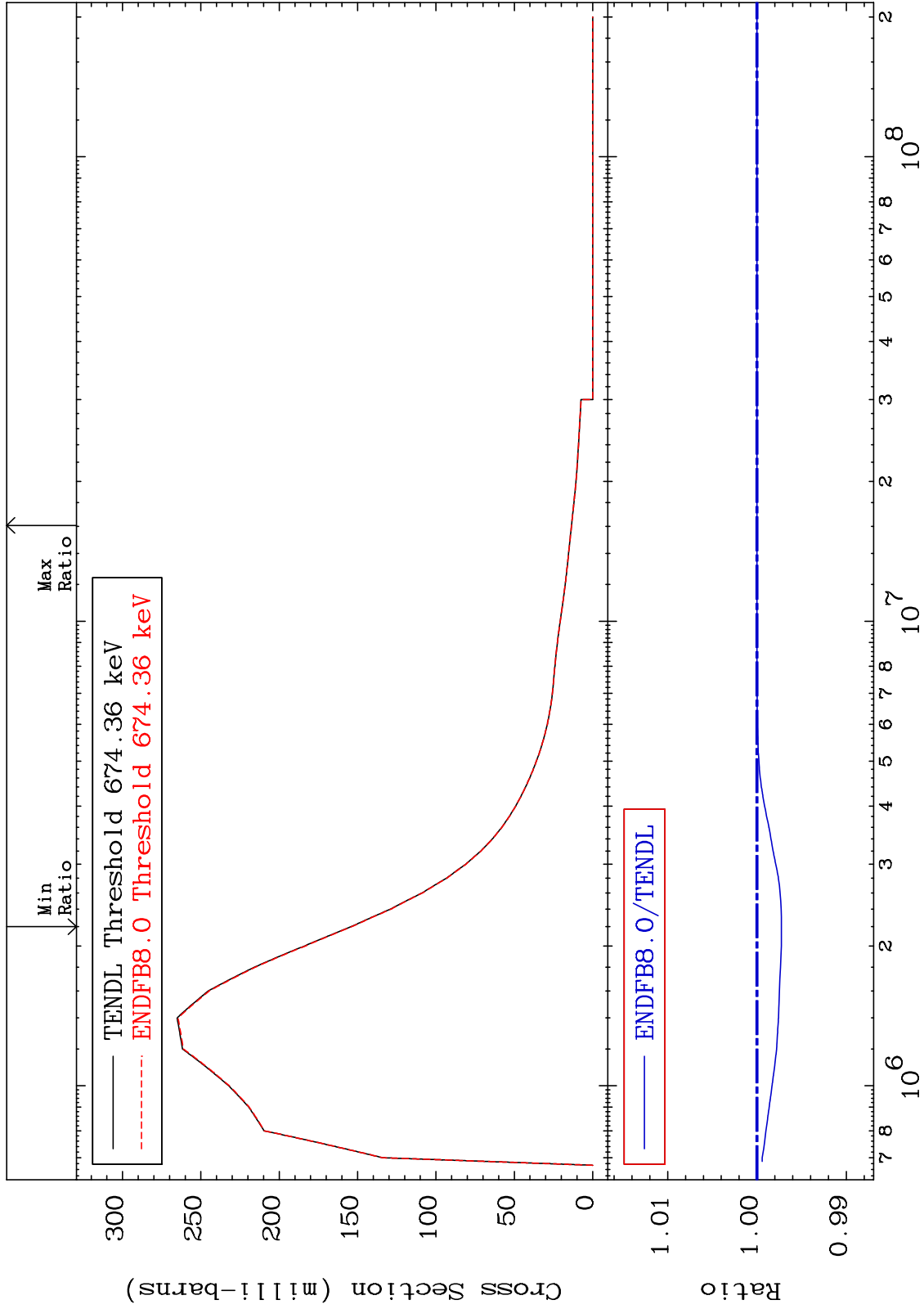
61-Pm-145
-0.274 To 0.000 %



MAT 6143

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

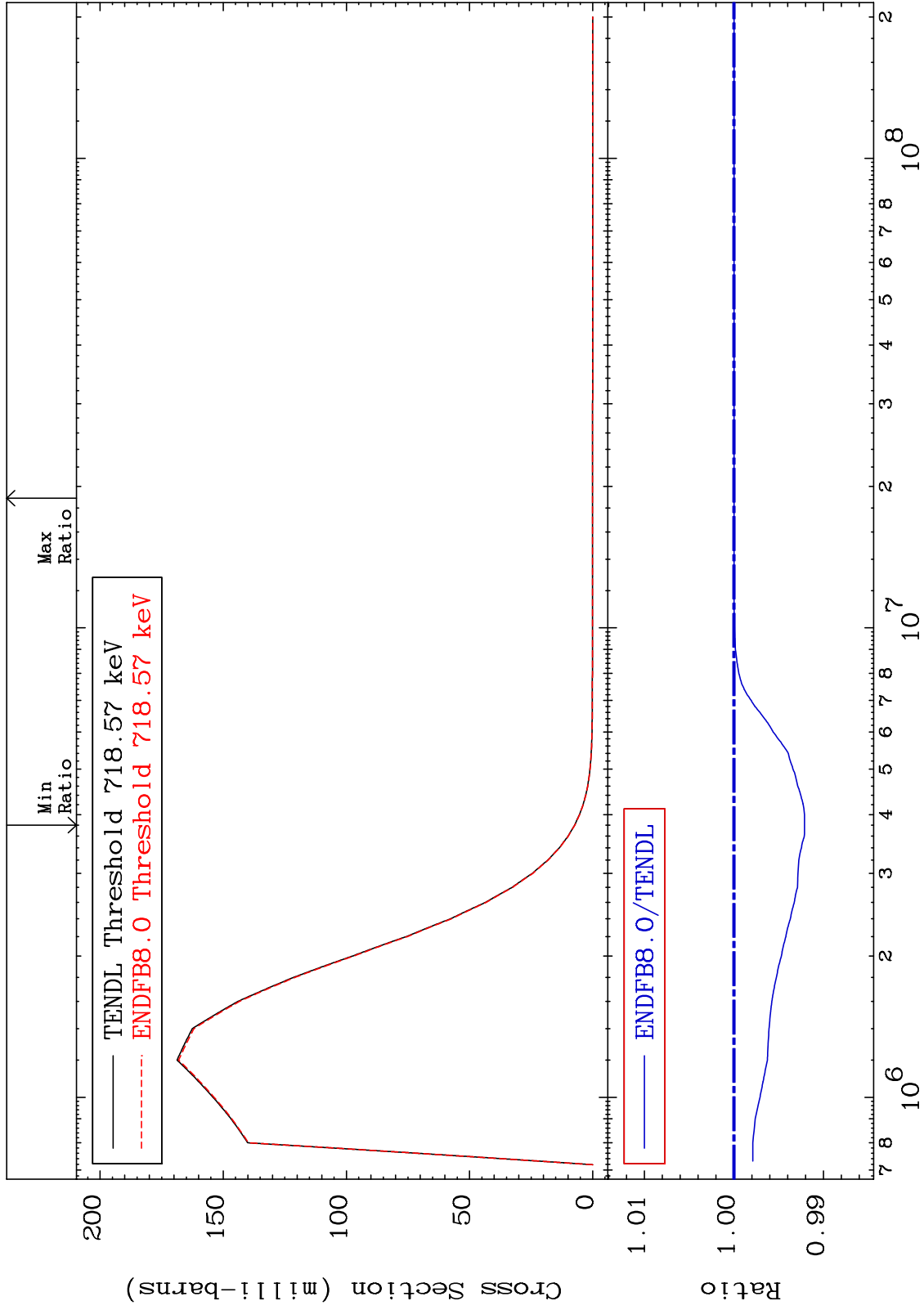
61-Pm-145
-0.274 To 0.000 %



MAT 6143

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

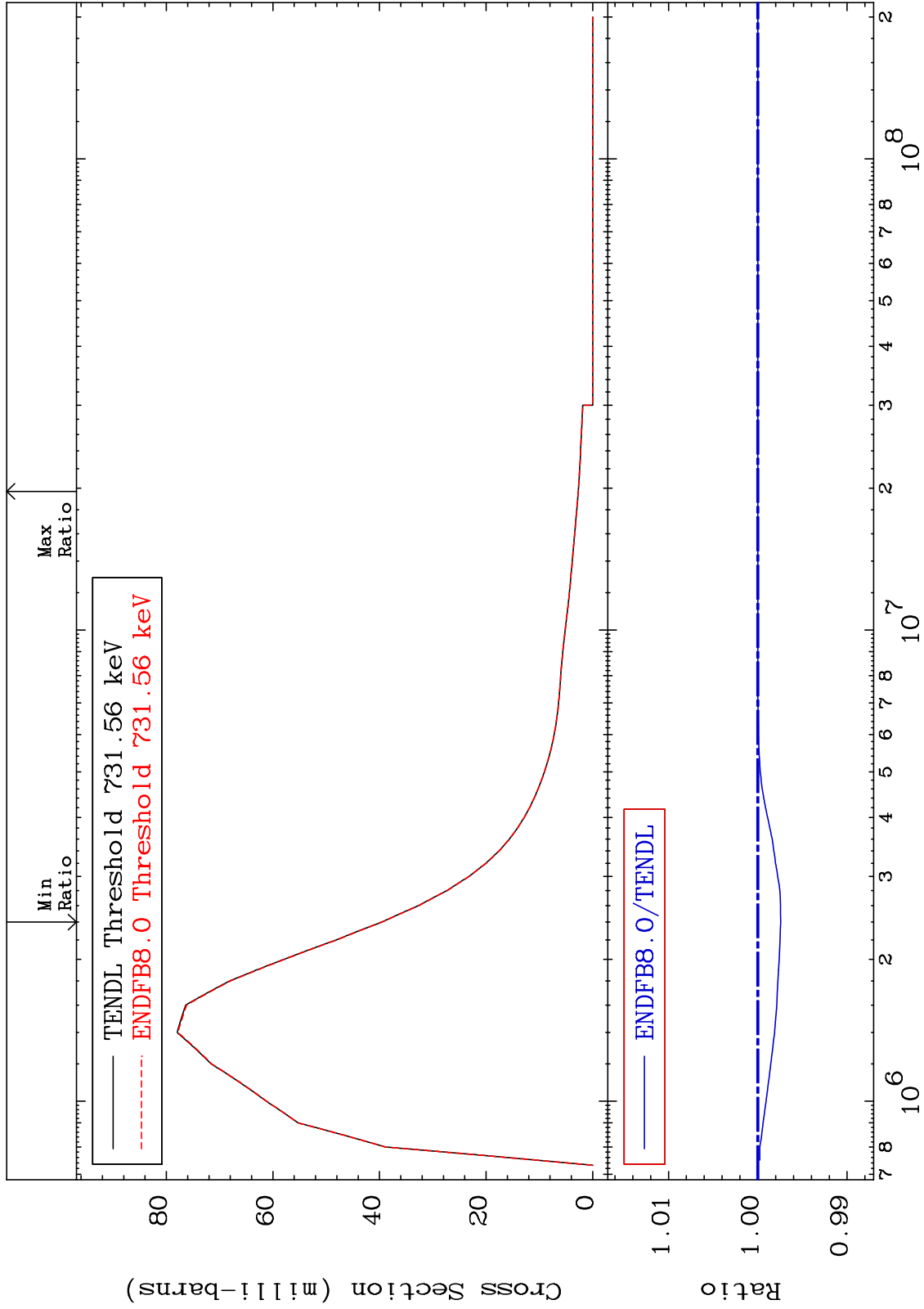
61-Pm-145
-0.787 To 0.000 %



MAT 6143

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

61-Pm-145
-0.255 To 0.000 %



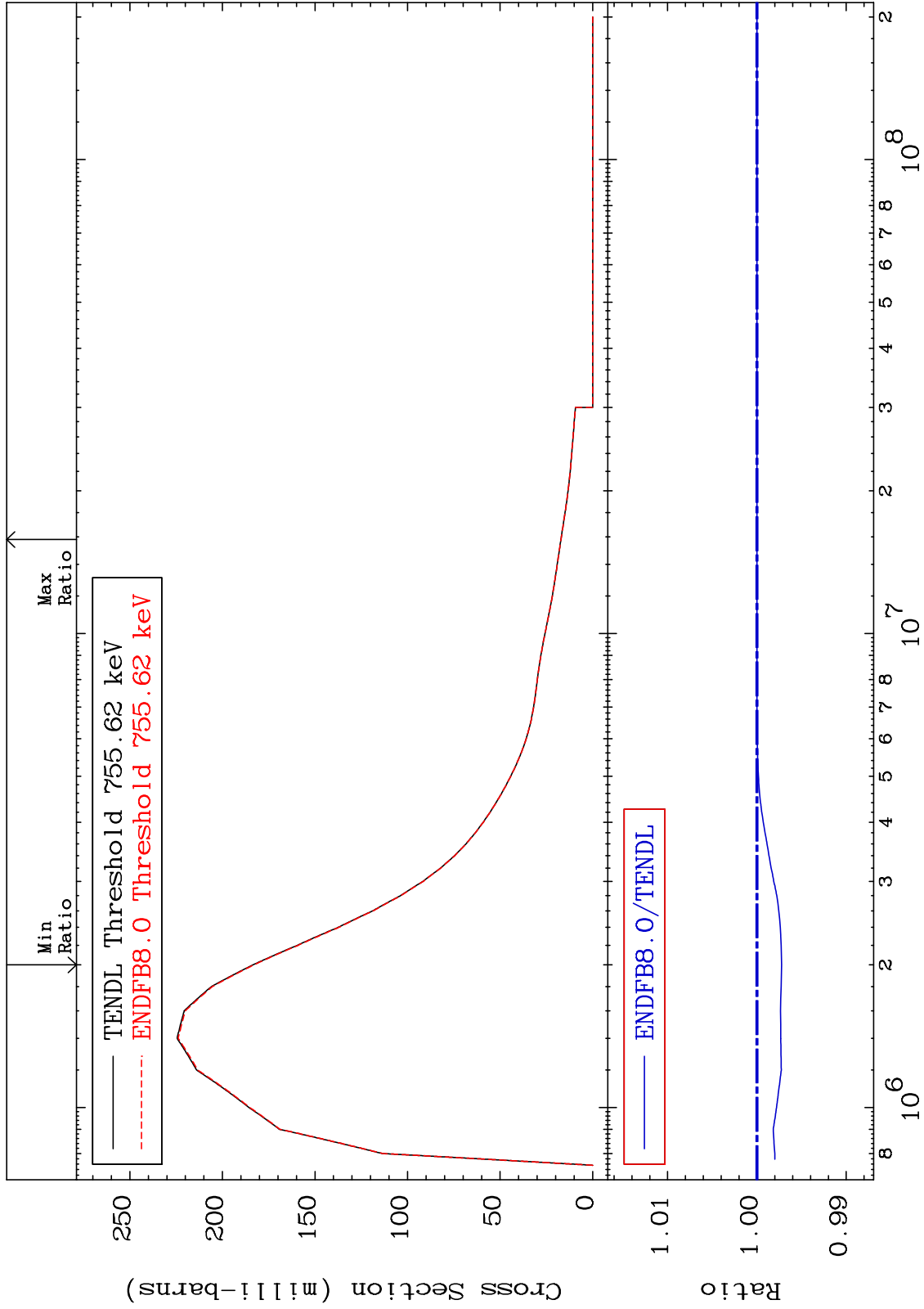
25

61-Pm-145

MAT 6143

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

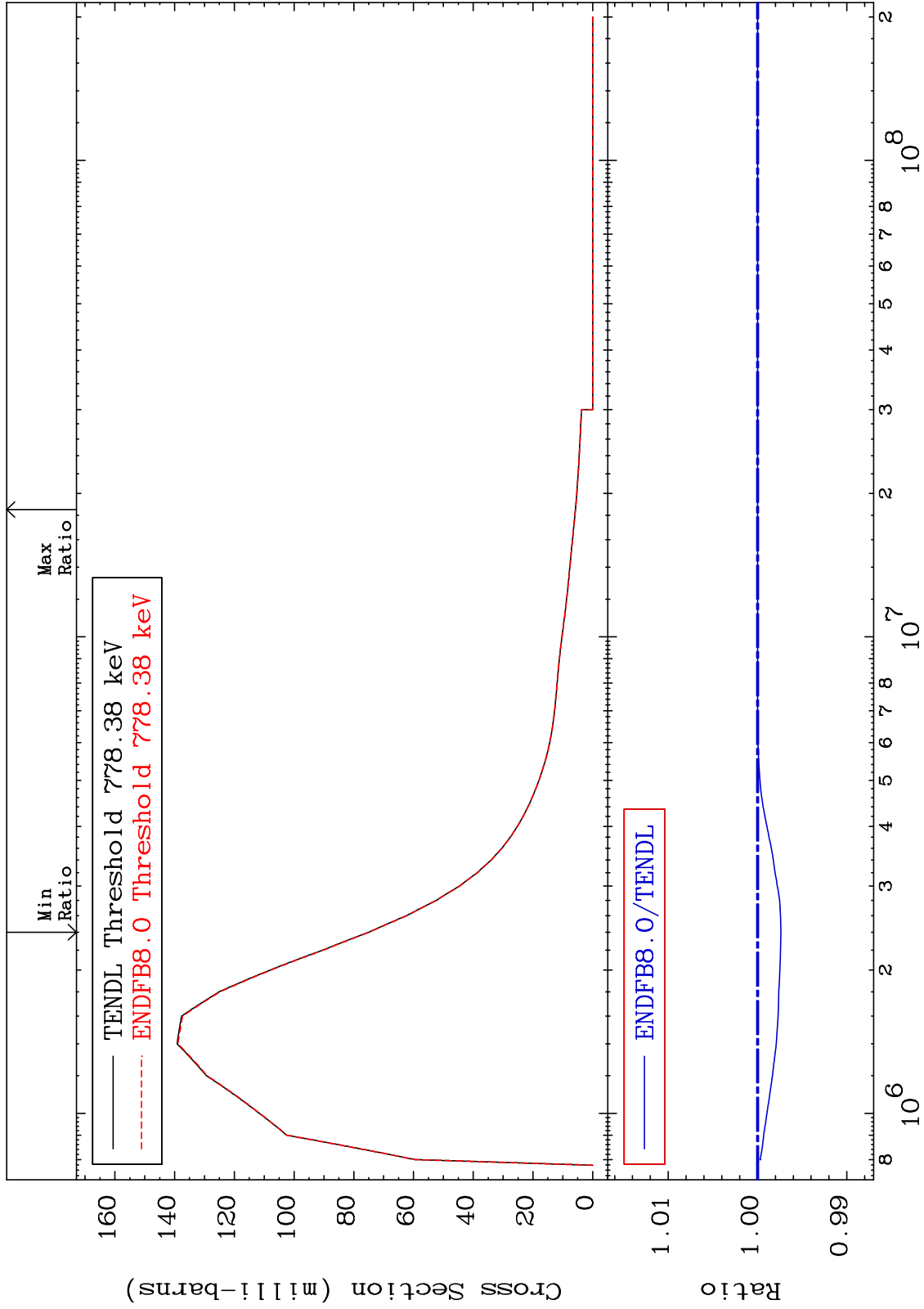
61-Pm-145
-0.275 To 0.000 %



MAT 6143

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

61-Pm-145
-0.261 To 0.000 %



27

Incident Energy (eV)

61-Pm-145

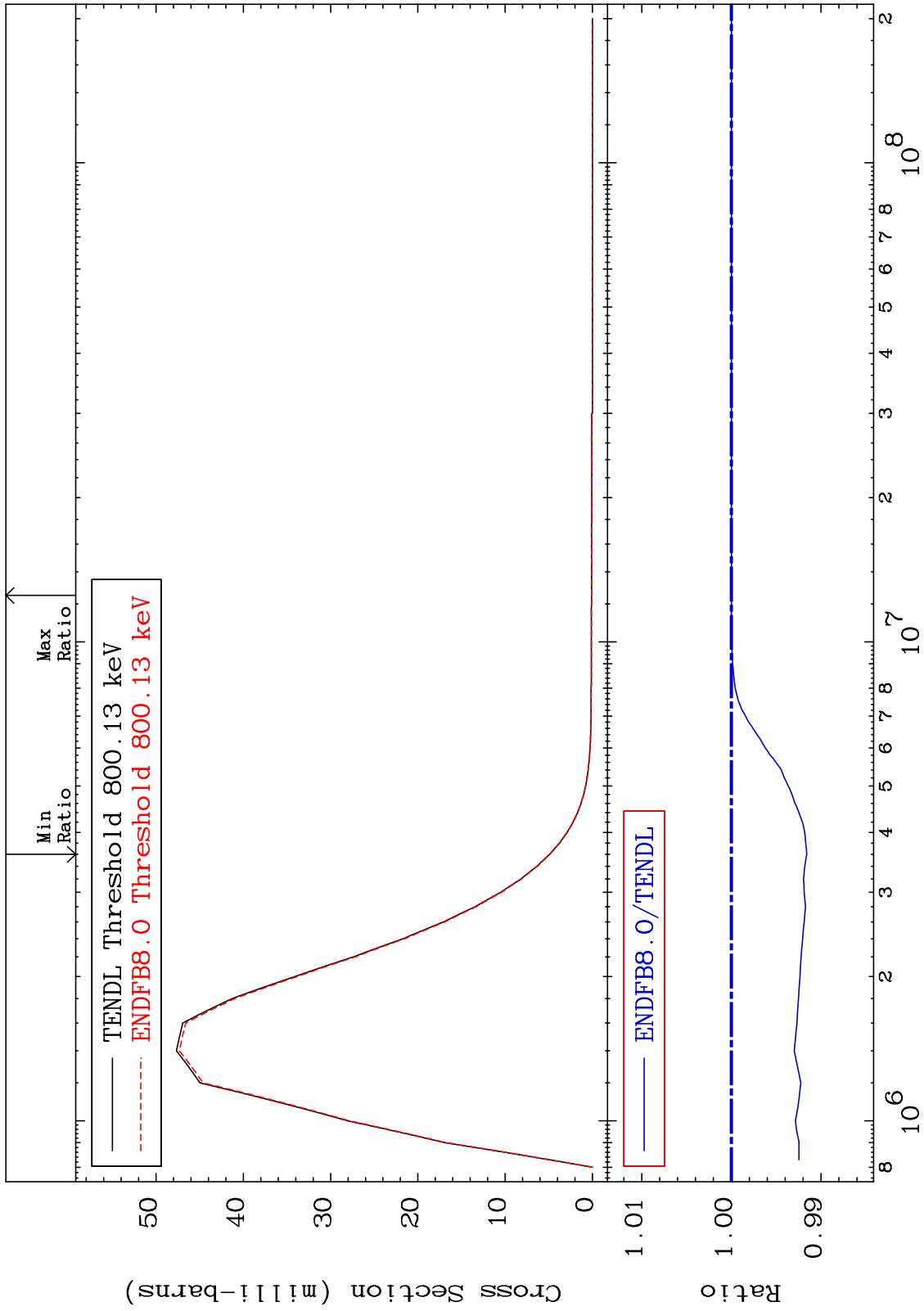
MAT 6143

MT= 59 (n,n') Level

61-Pm-145

-0.841 To 0.000 %

Cross Section



28

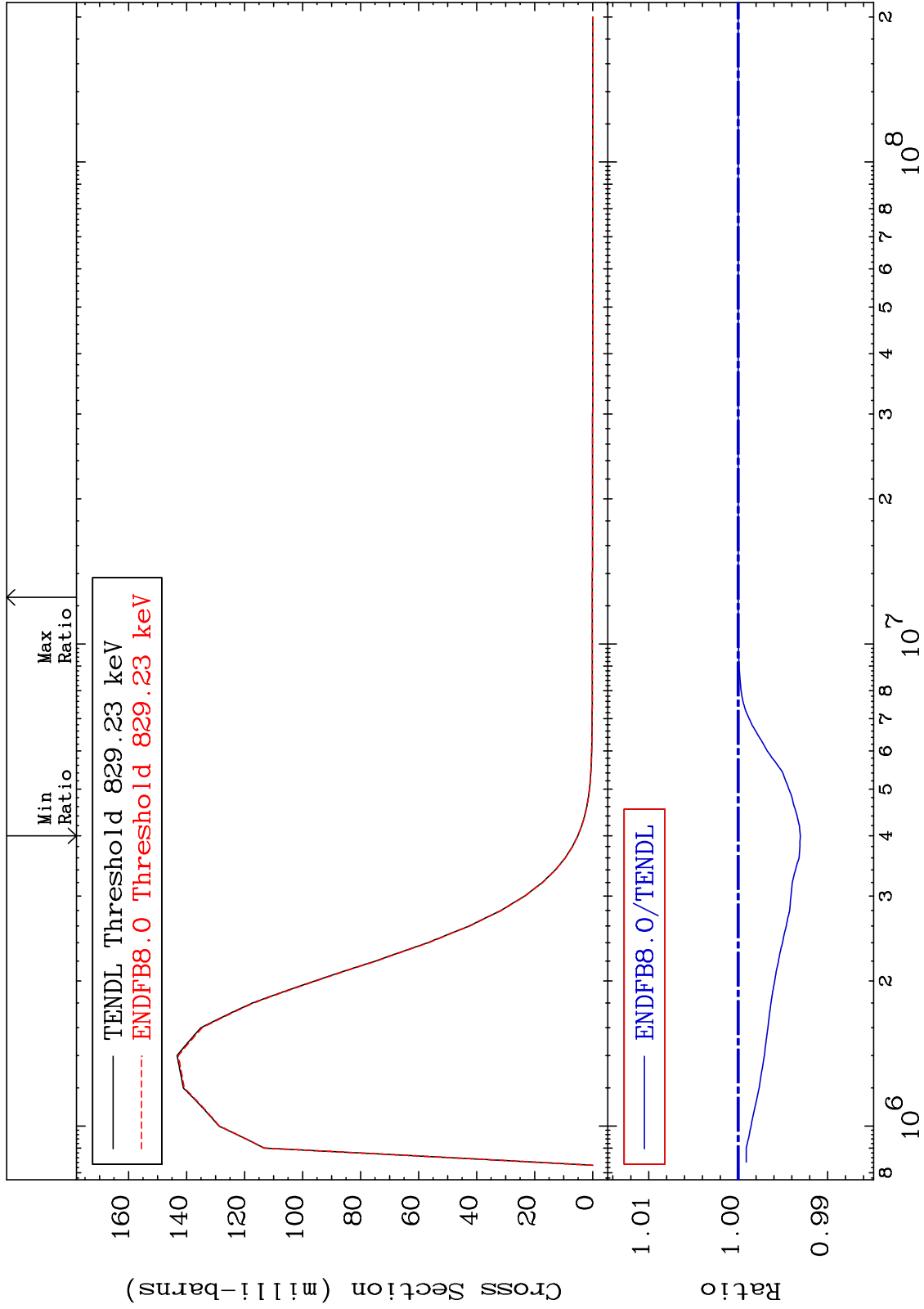
Incident Energy (eV)

61-Pm-145

MAT 6143

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

61-Pm-145
-0.693 To 0.000 %



29

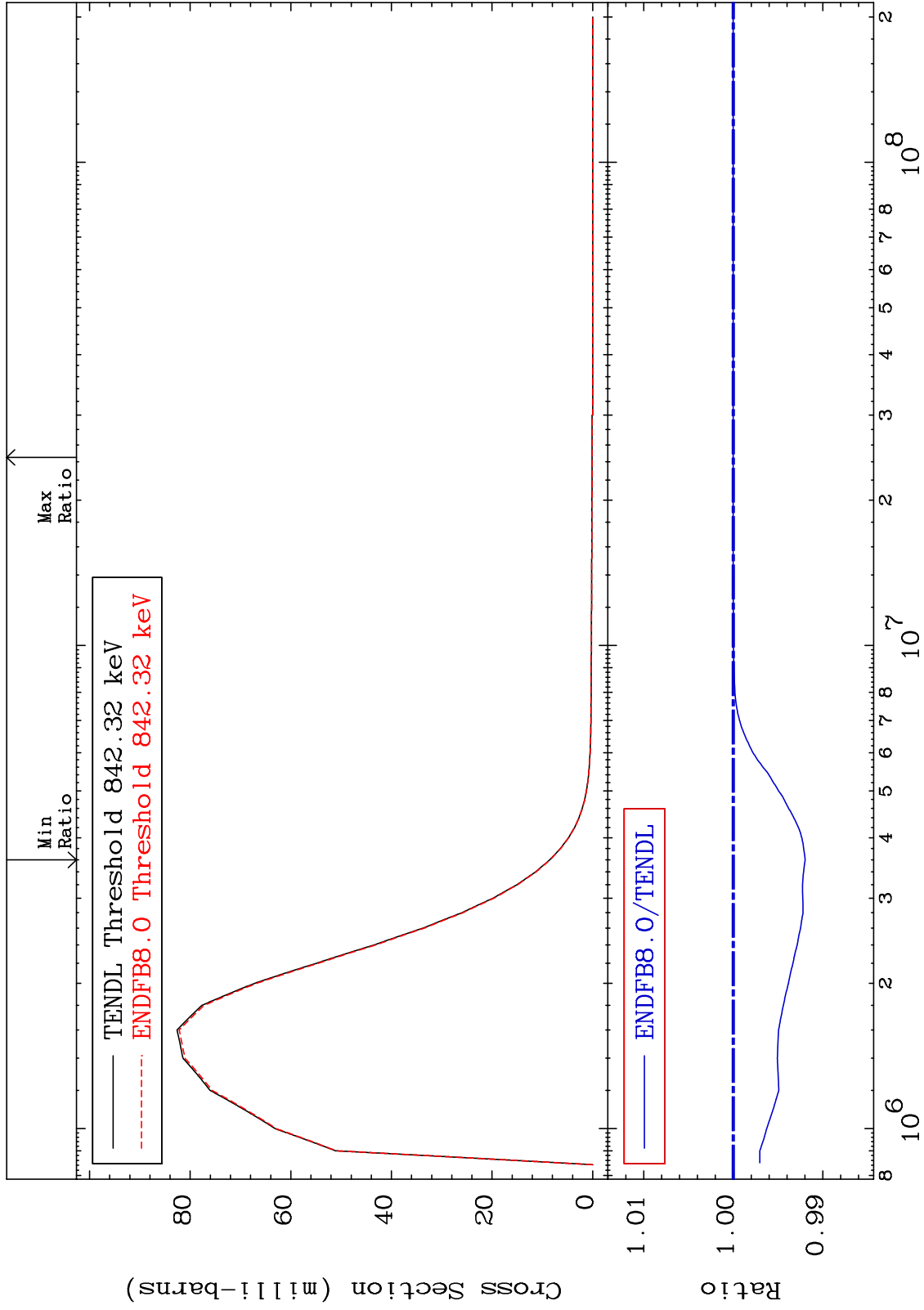
Incident Energy (eV)

61-Pm-145

MAT 6143

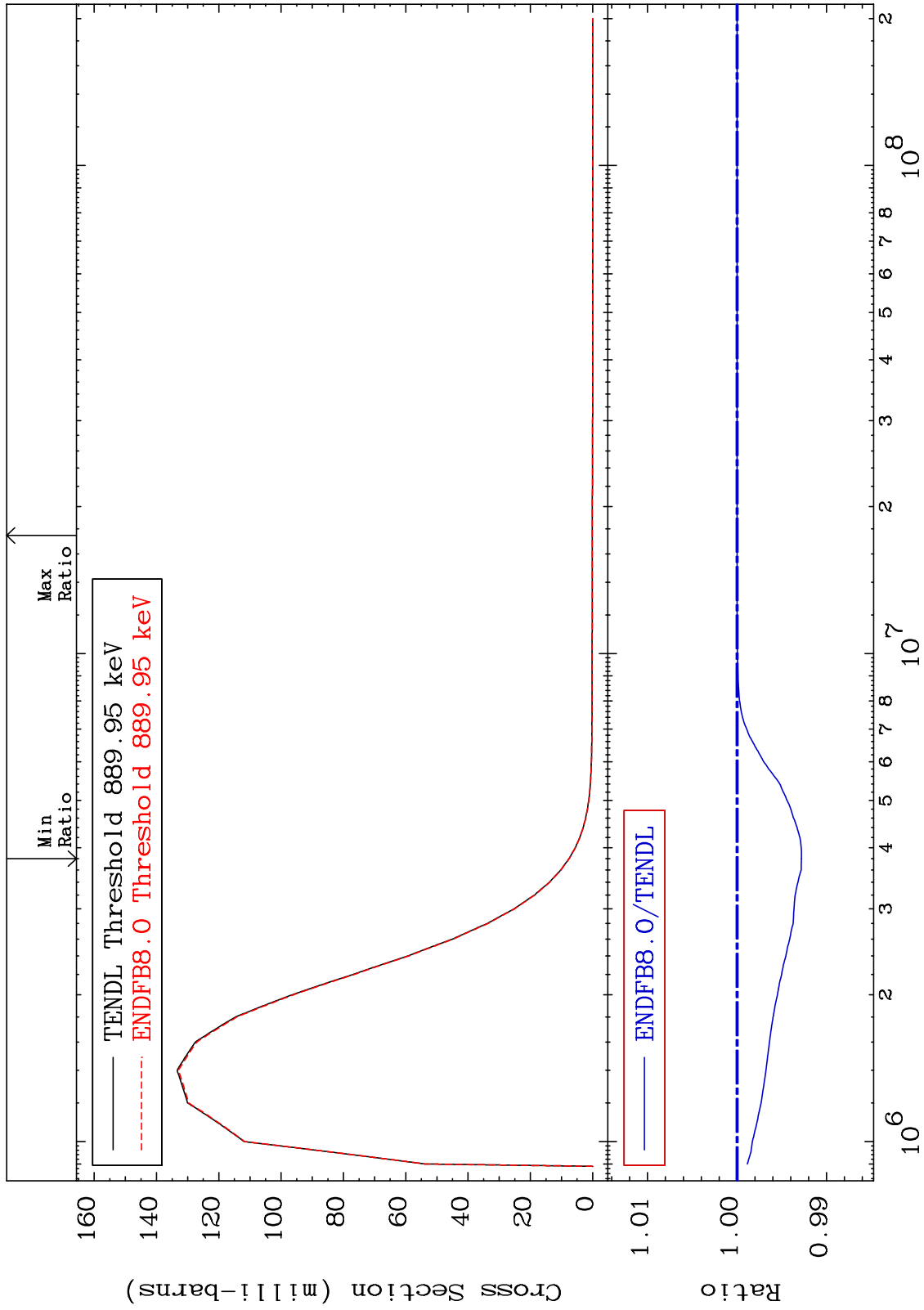
MT= 61 (n,n') Level
Cross Section

61-Pm-145
-0.803 To 0.000 %



30 61-Pm-145

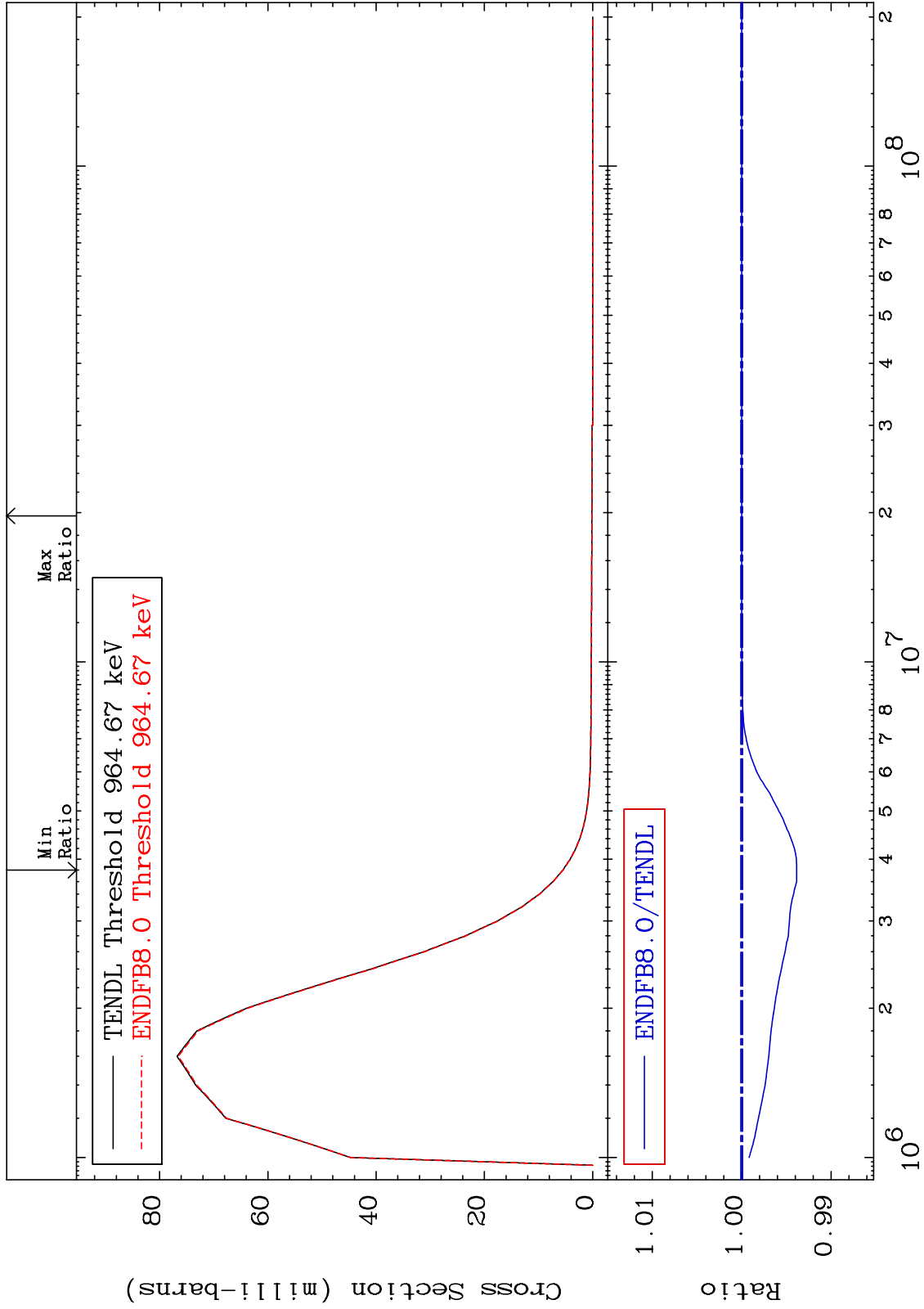
MAT 6143 MT= 62 (n,n') Level Cross Section 61-Pm-145 -0.719 To 0.000 %



MAT 6143

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

61-Pm-145
-0.615 To 0.000 %



Incident Energy (eV)

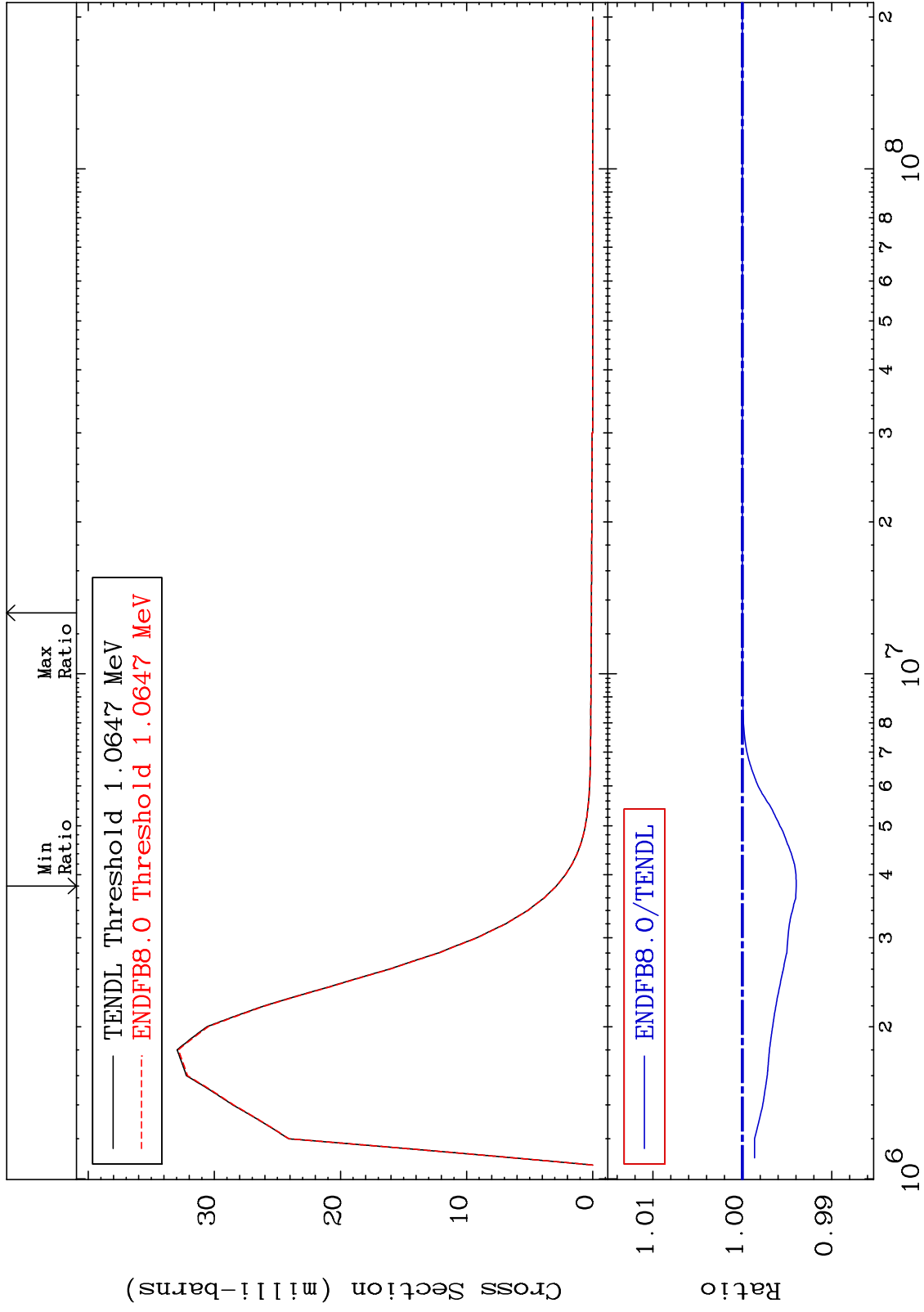
61-Pm-145

32

MAT 6143

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

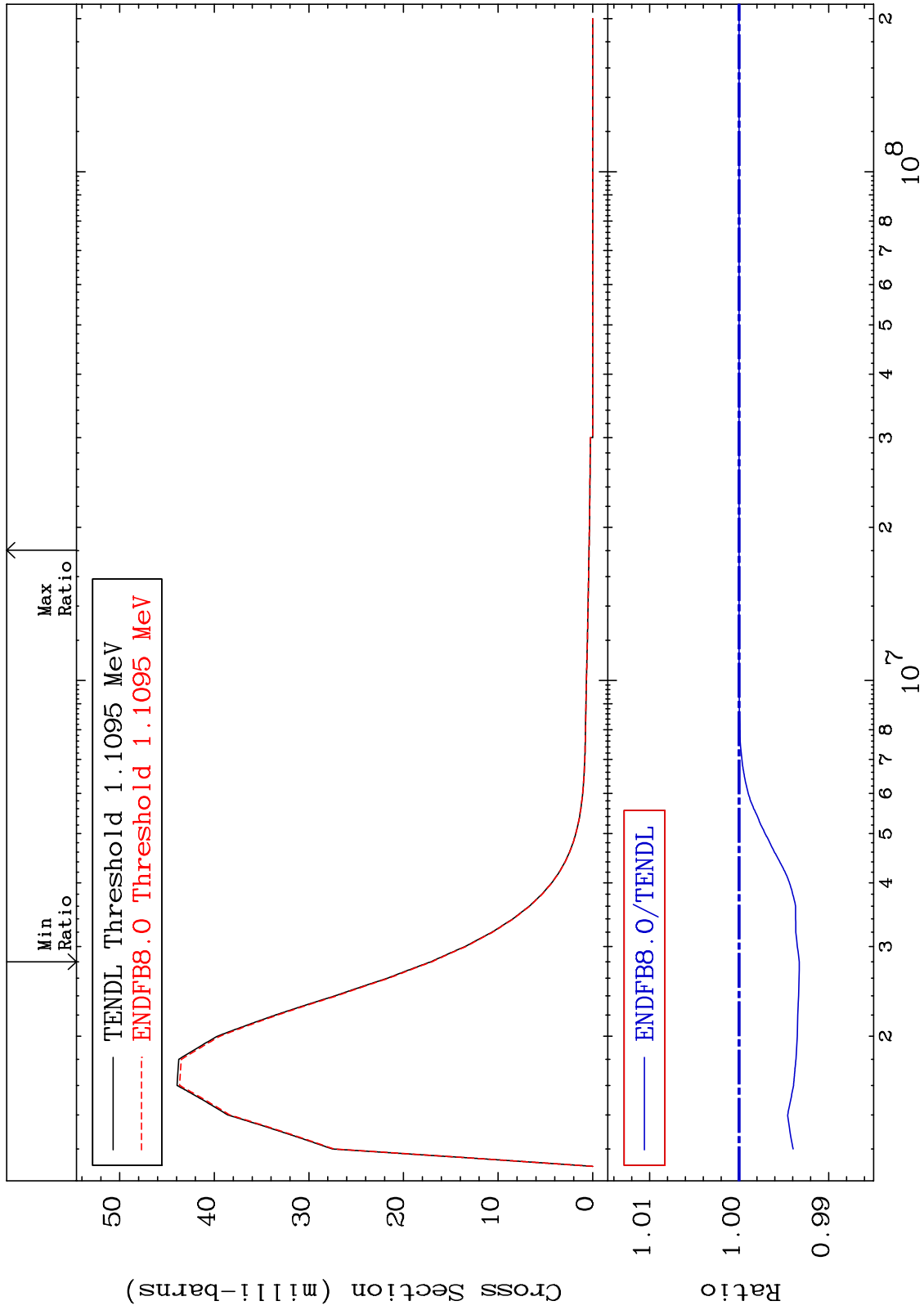
61-Pm-145
-0.602 To 0.000 %



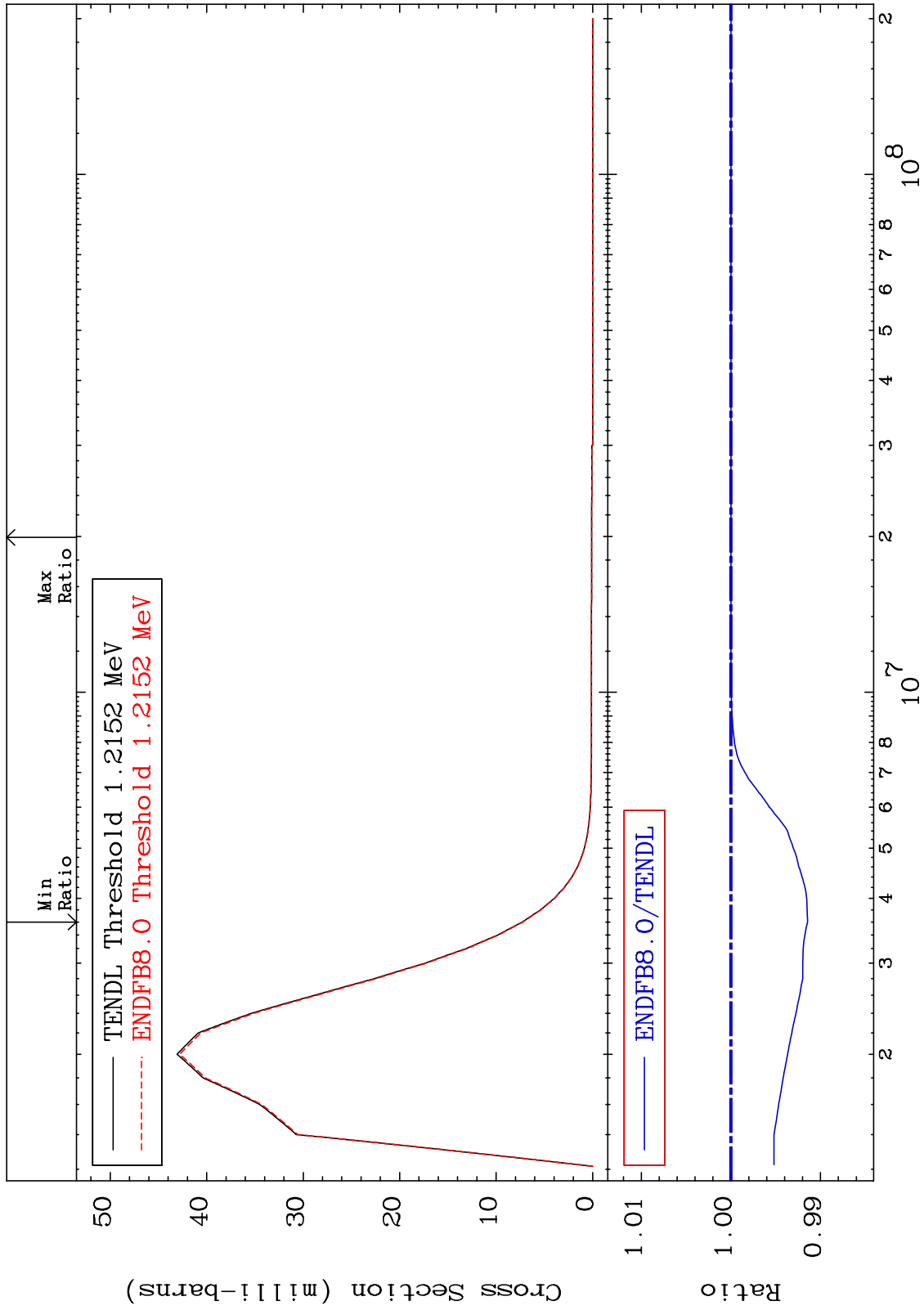
61-Pm-145

33

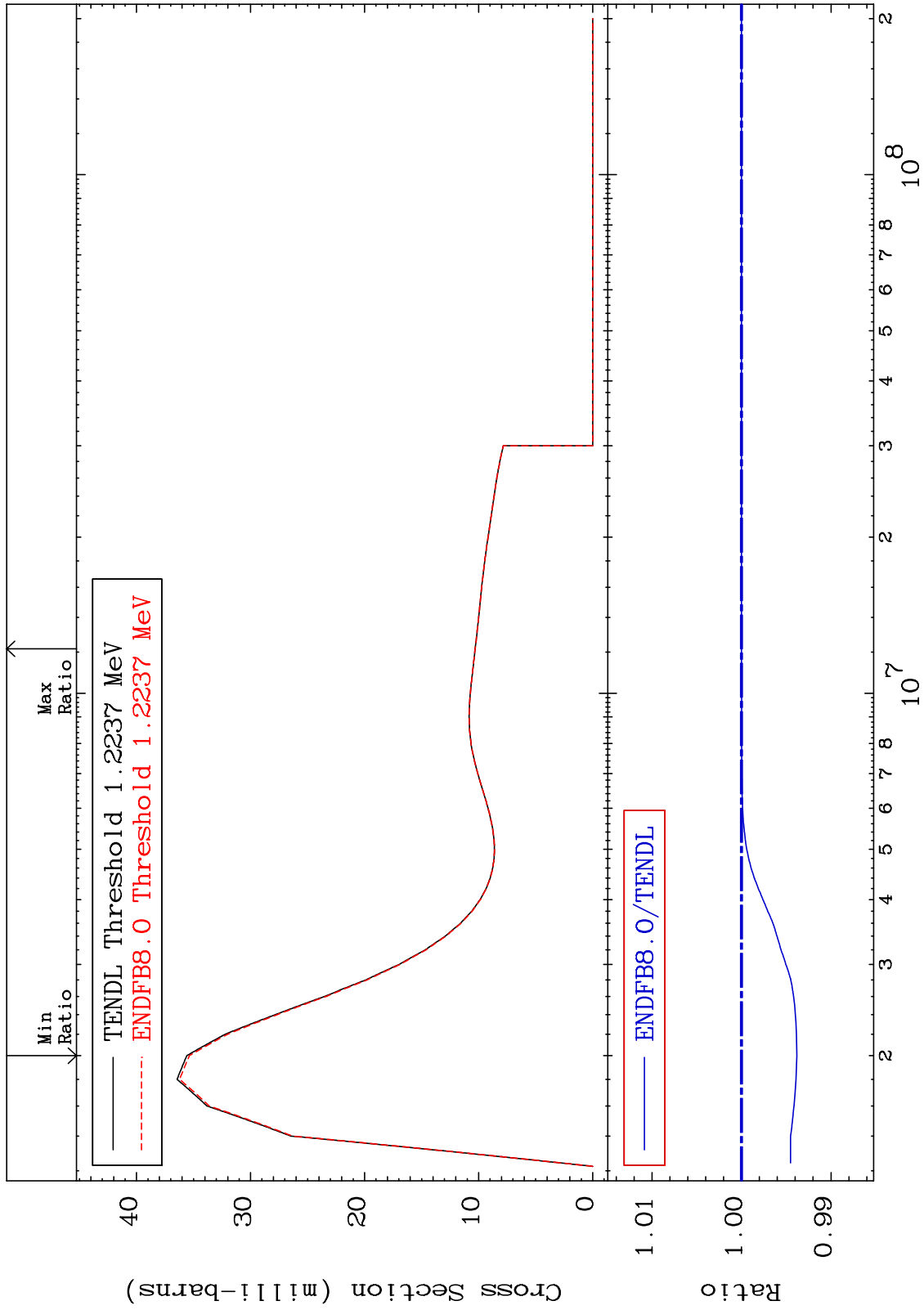
MAT 6143 MT= 65 (n,n') Level Cross Section 61-Pm-145
 -0.673 To 0.000 %



MAT 6143 MT= 66 (n,n') Level Cross Section 61-Pm-145
 -0.856 To 0.000 %



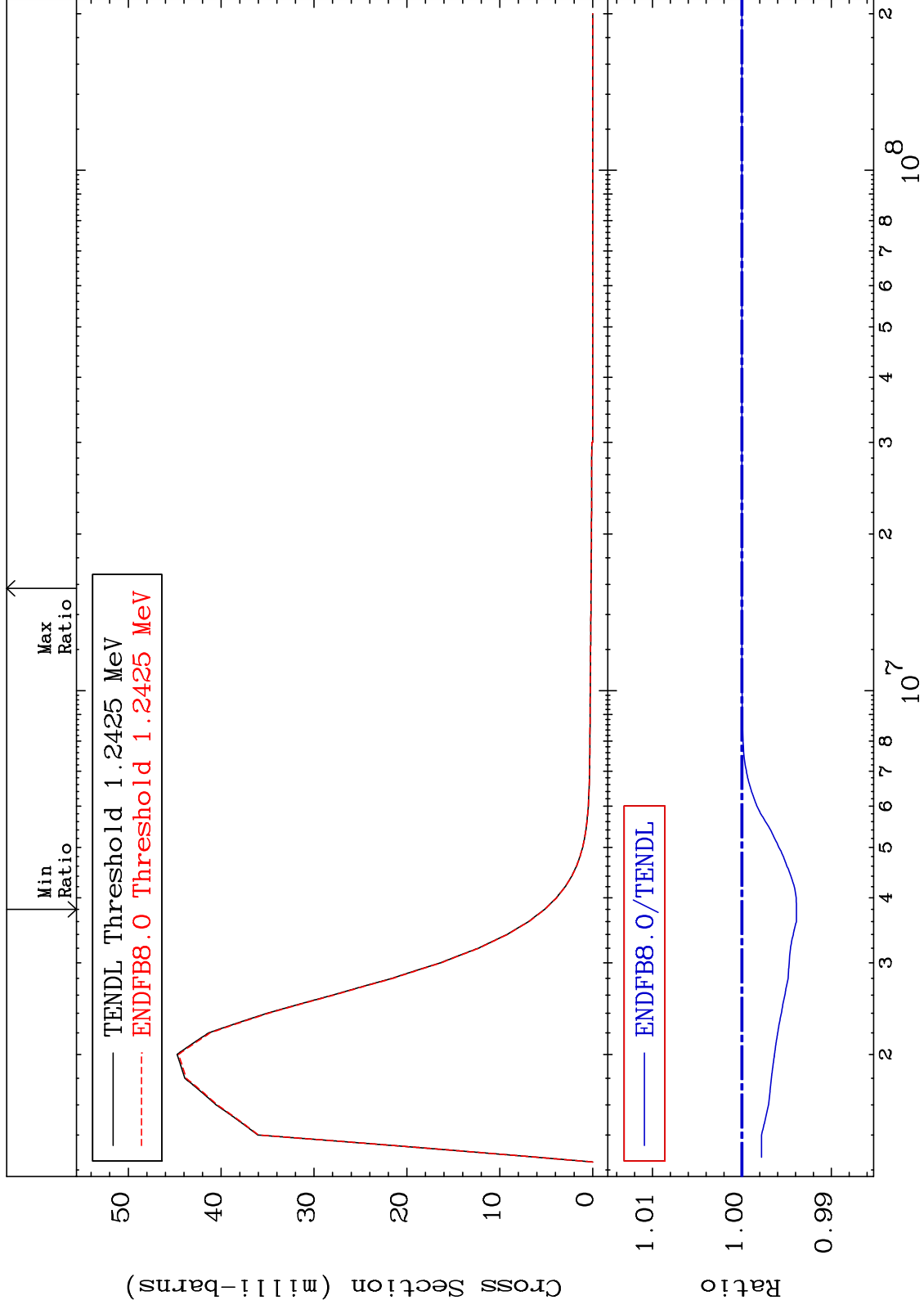
MAT 6143 MT= 67 (n,n') Level 61-Pm-145
 Cross Section -0.619 To 0.000 %



MAT 6143

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

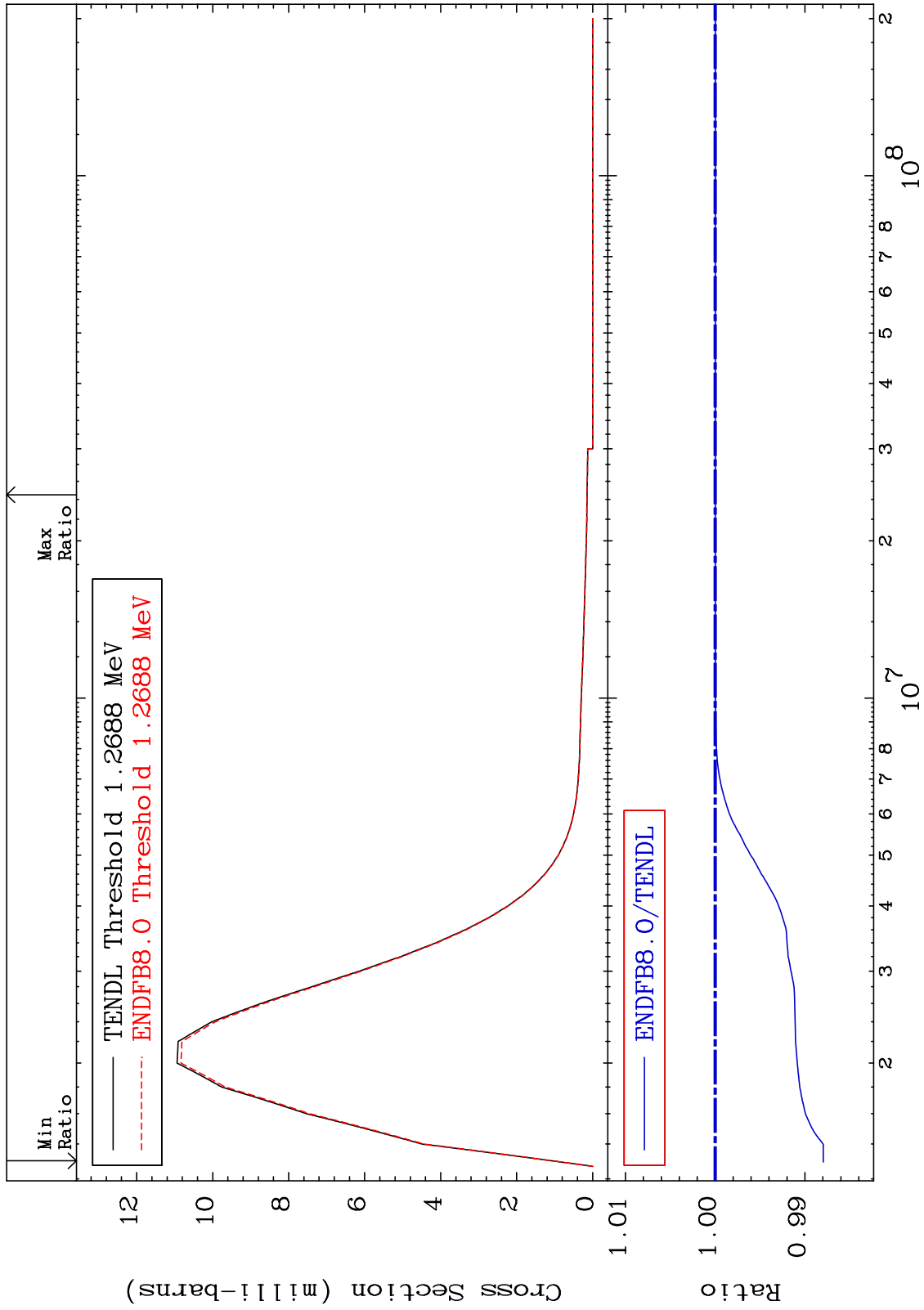
61-Pm-145
-0.610 To 0.000 %



MAT 6143

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

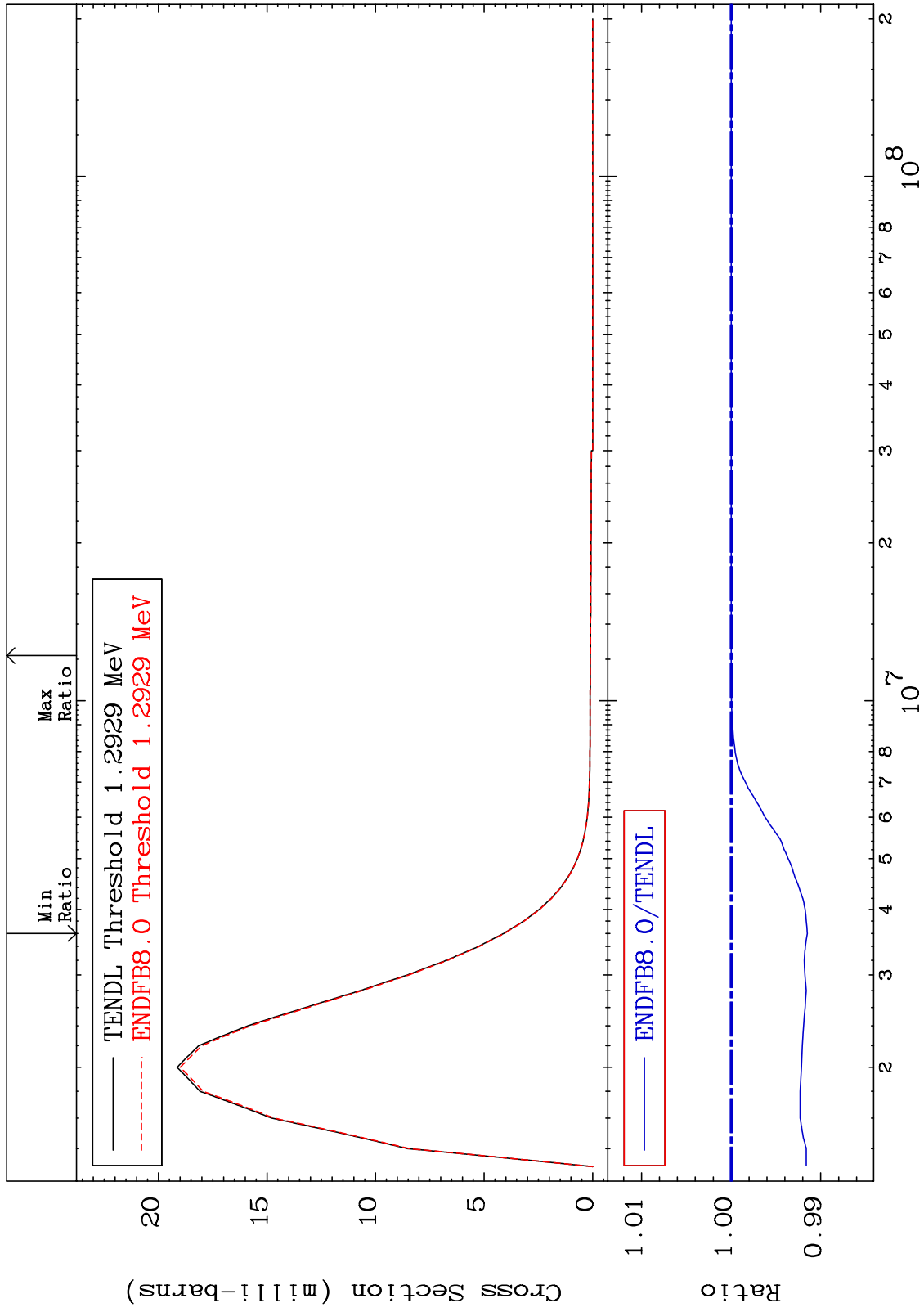
61-Pm-145
-1.204 To 0.000 %



MAT 6143

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

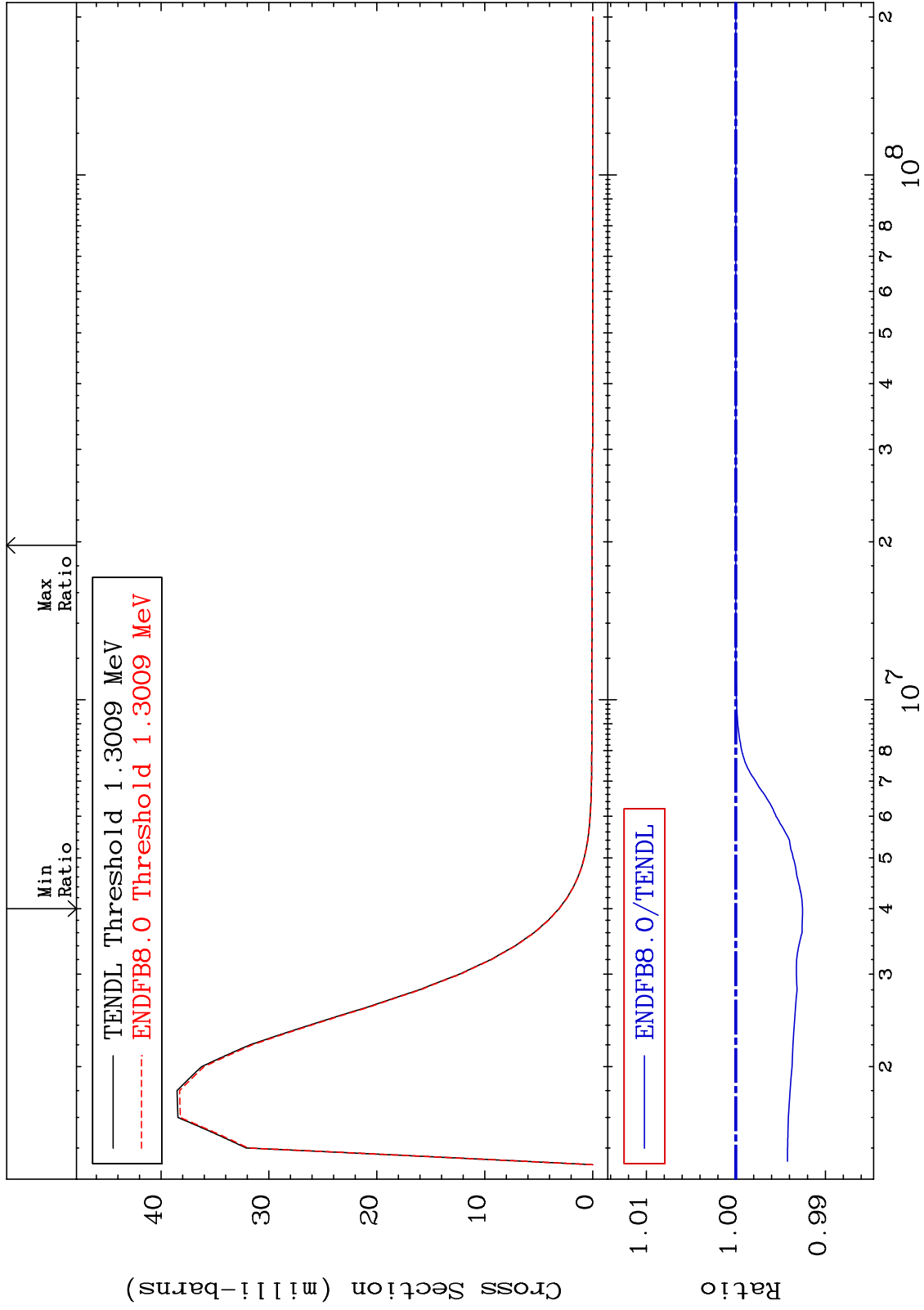
61-Pm-145
-0.850 To 0.000 %



MAT 6143

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

61-Pm-145
-0.746 To 0.000 %

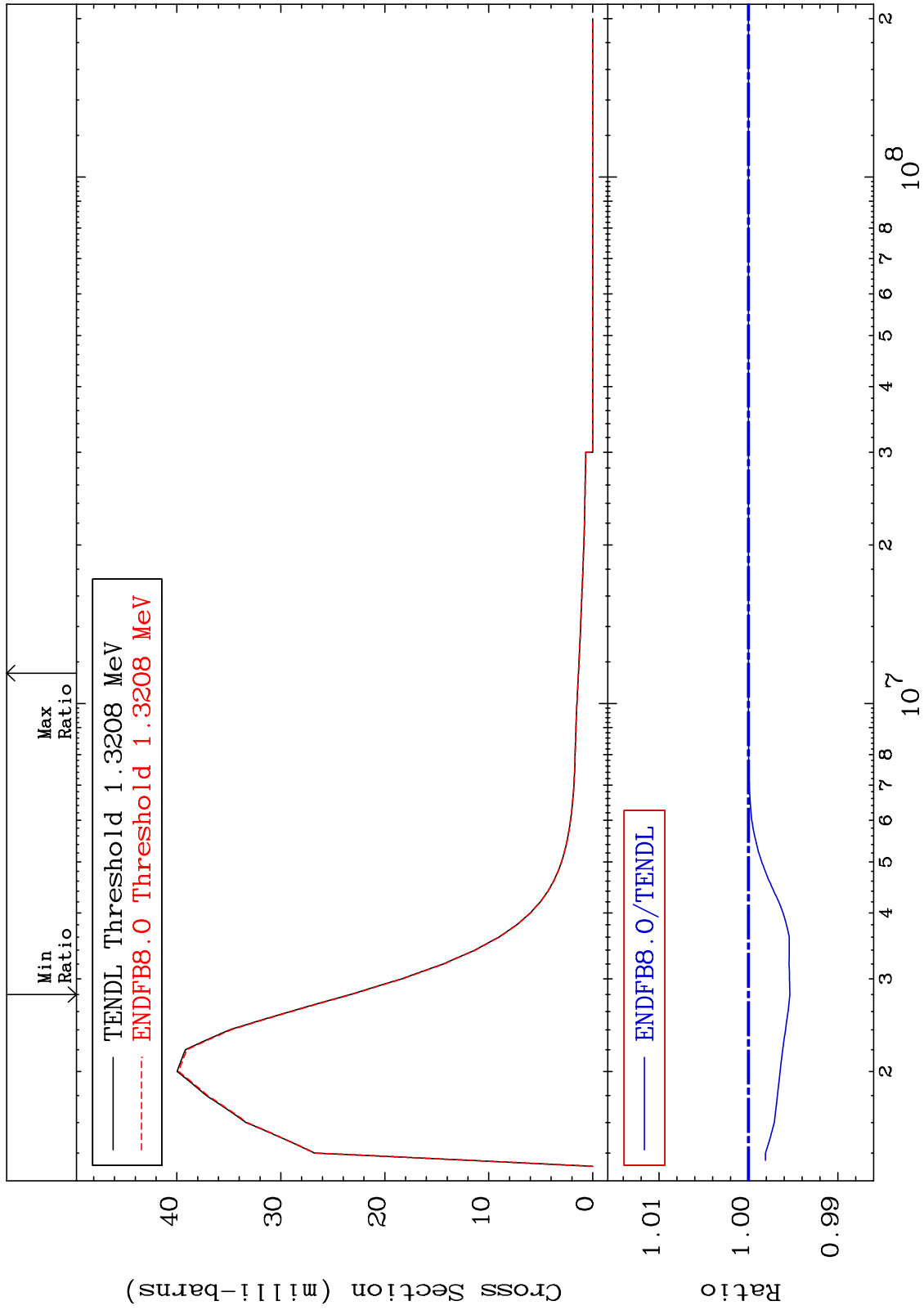


40

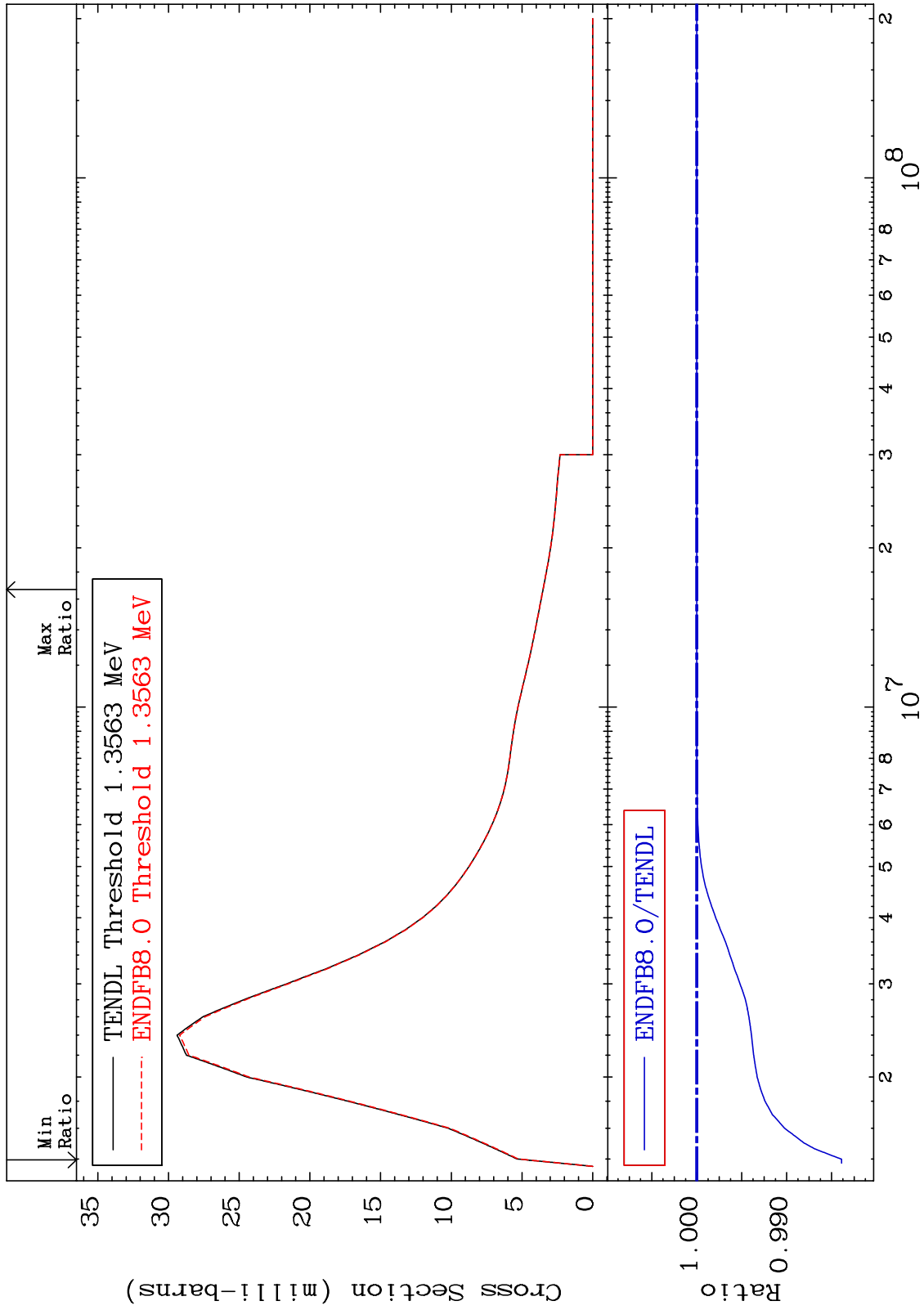
Incident Energy (eV)

61-Pm-145

MAT 6143 MT= 72 (n,n') Level Cross Section 61-Pm-145
 -0.464 To 0.000 %



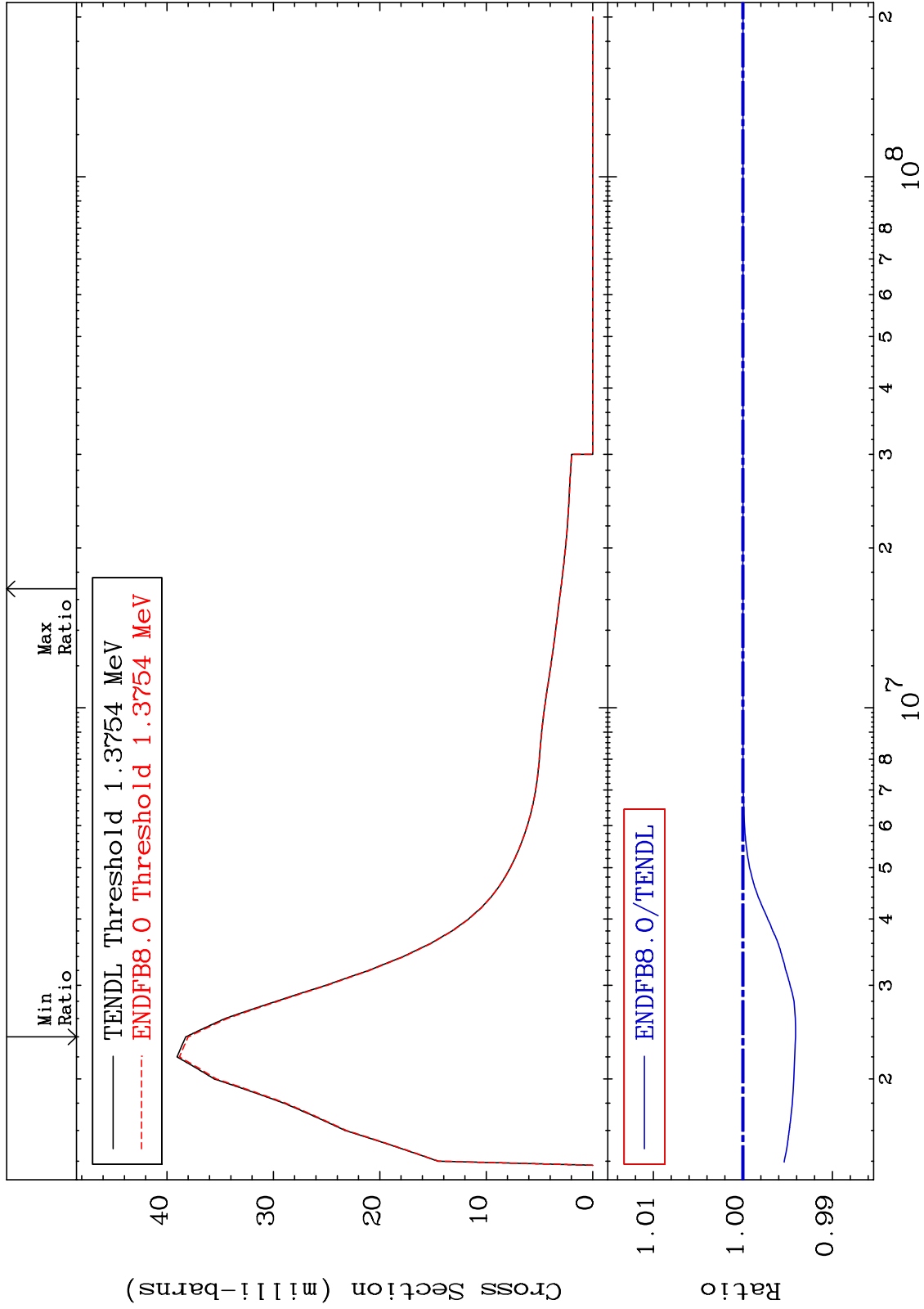
MAT 6143 MT= 73 (n,n') Level Cross Section 61-Pm-145 -1.612 To 0.000 %



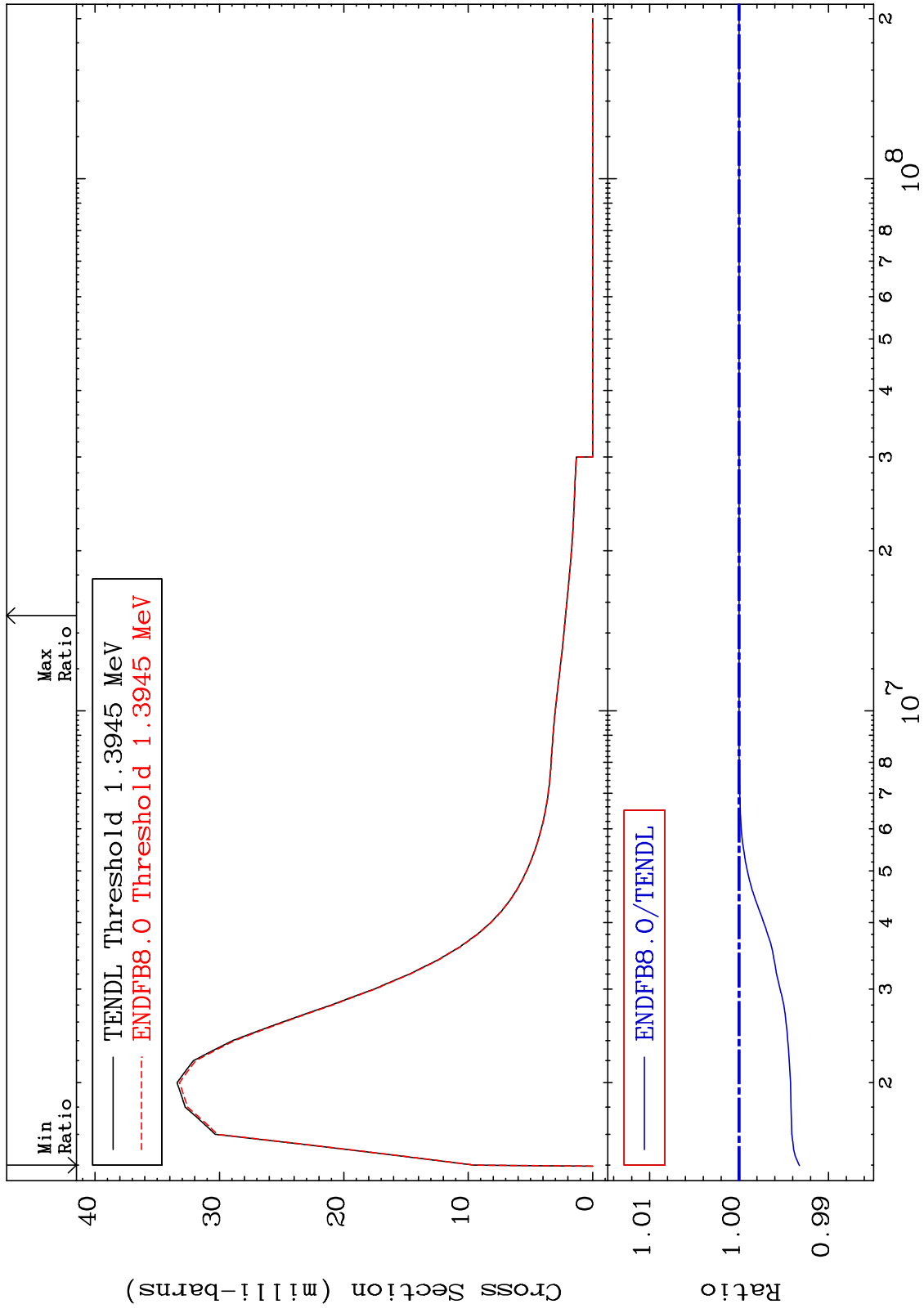
MAT 6143

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

61-Pm-145
-0.589 To 0.000 %



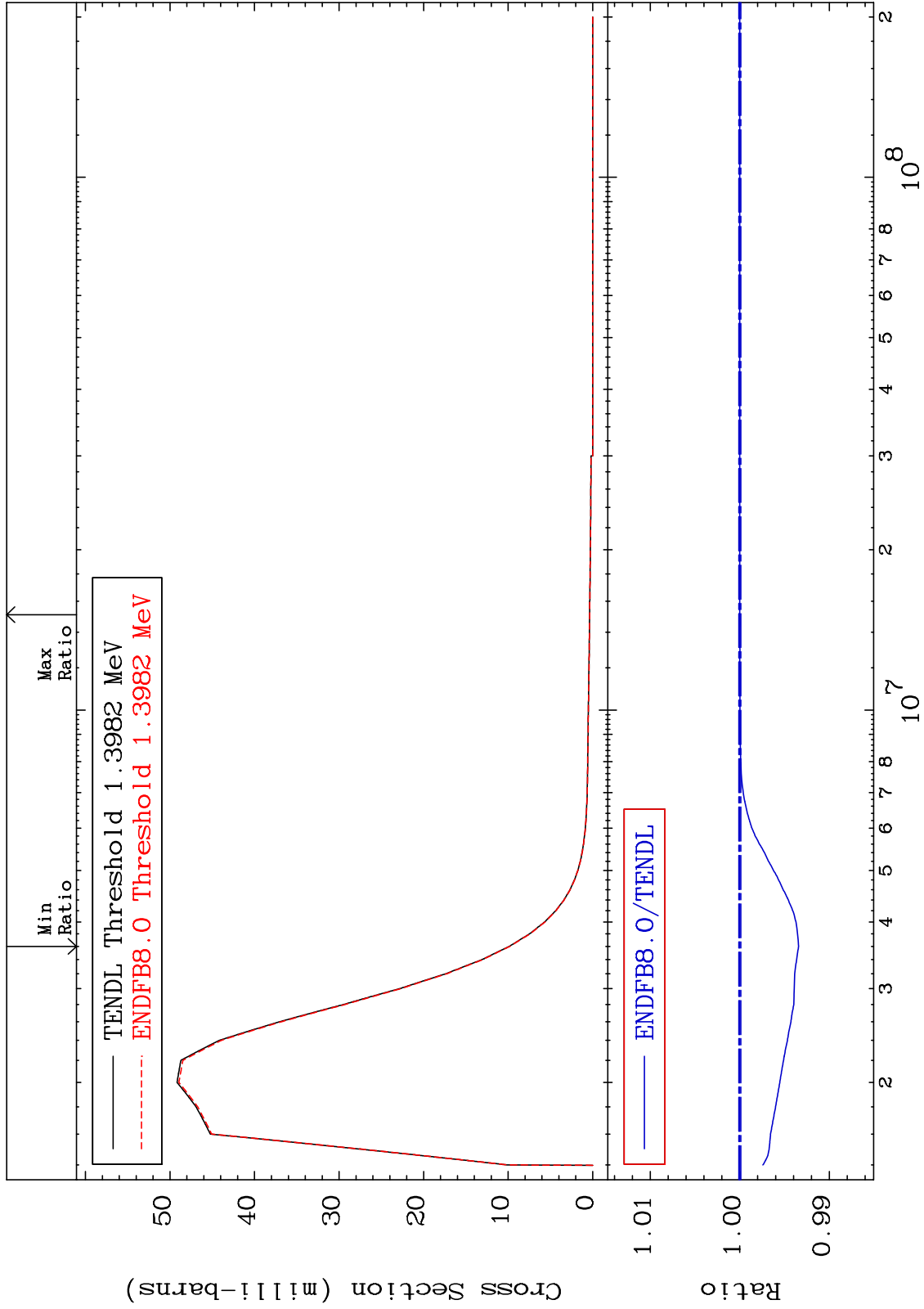
MAT 6143 MT= 75 (n,n') Level Cross Section 61-Pm-145
 -0.674 To 0.000 %



MAT 6143

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

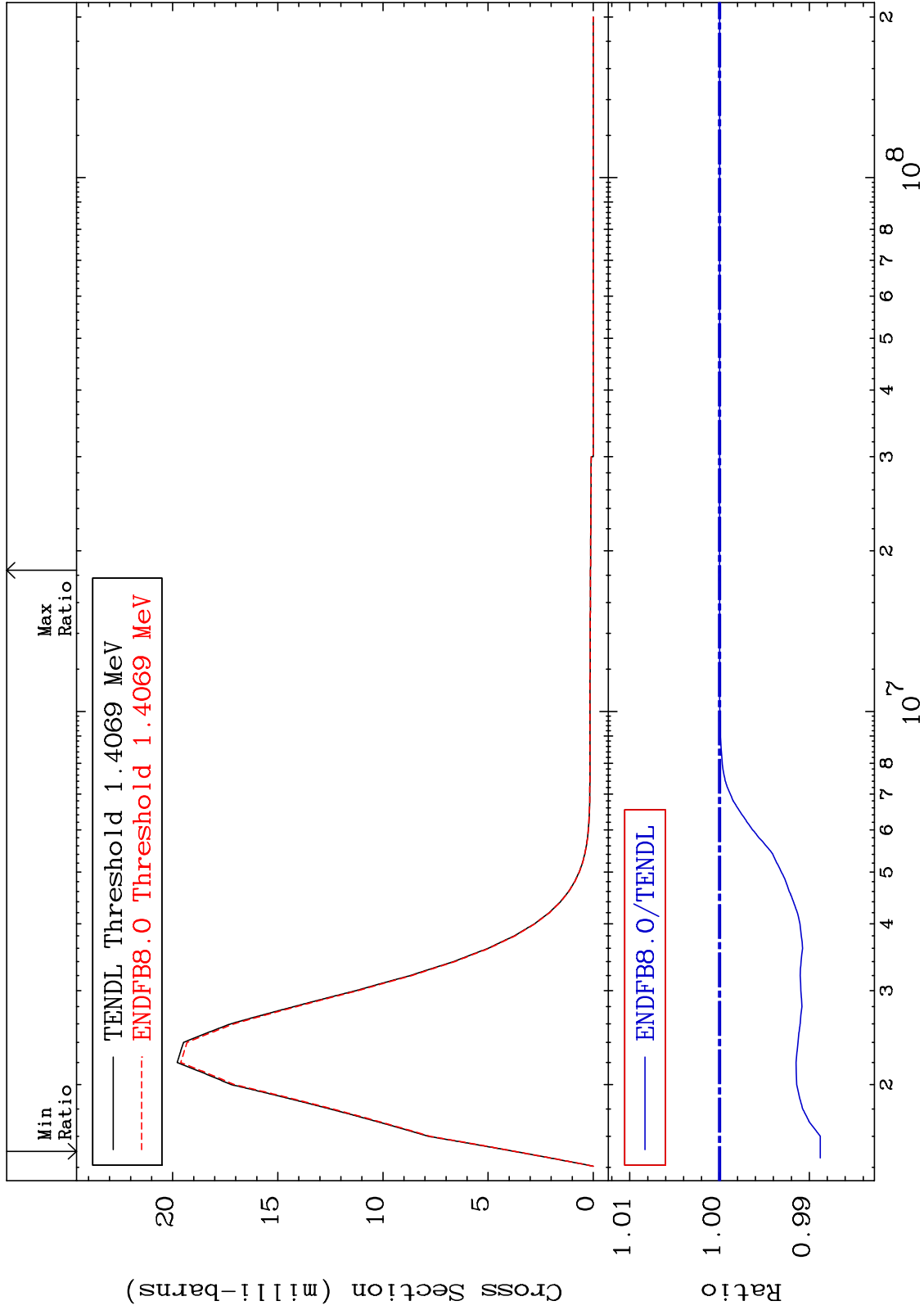
61-Pm-145
-0.657 To 0.000 %



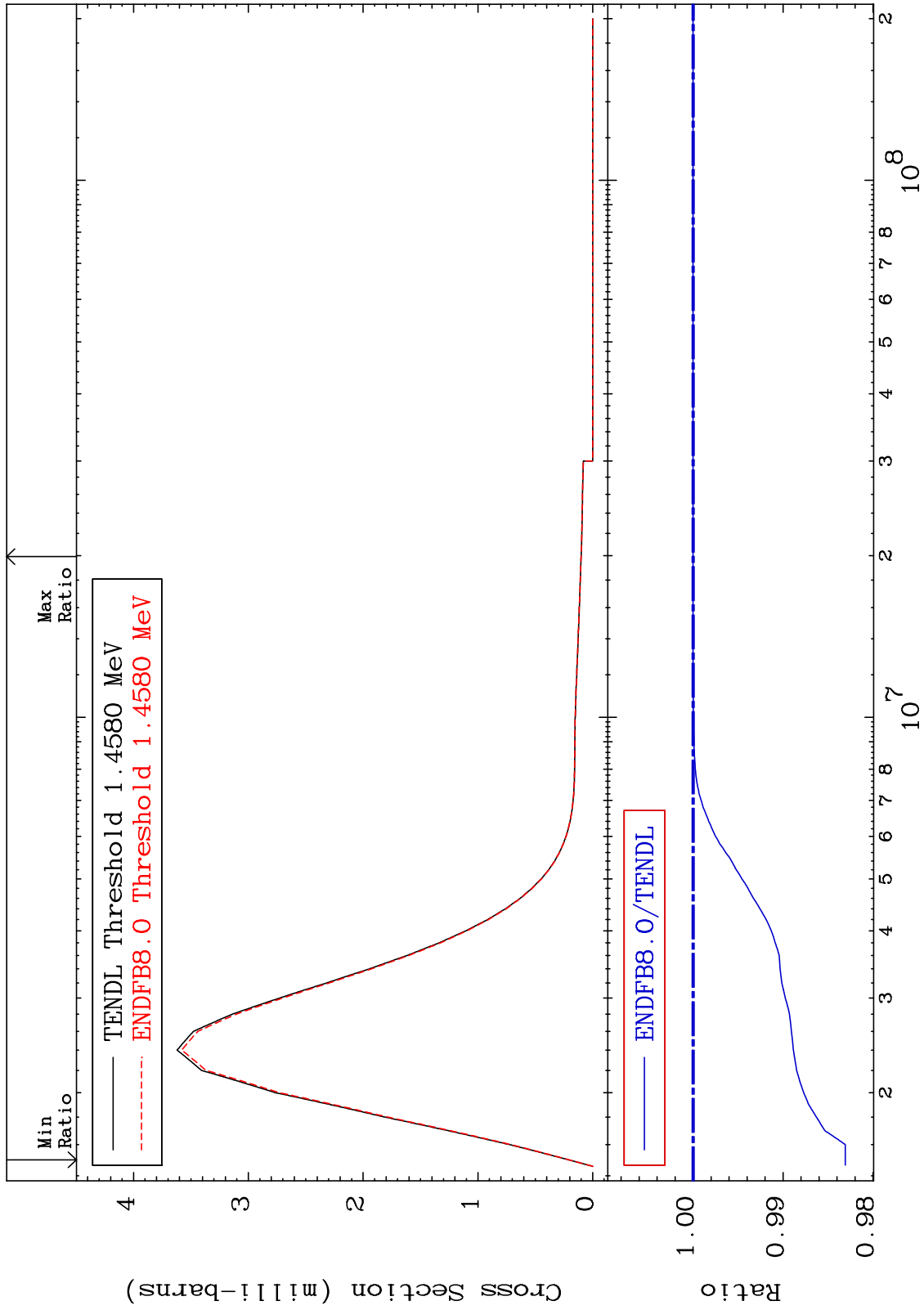
MAT 6143

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

61-Pm-145
-1.122 To 0.000 %



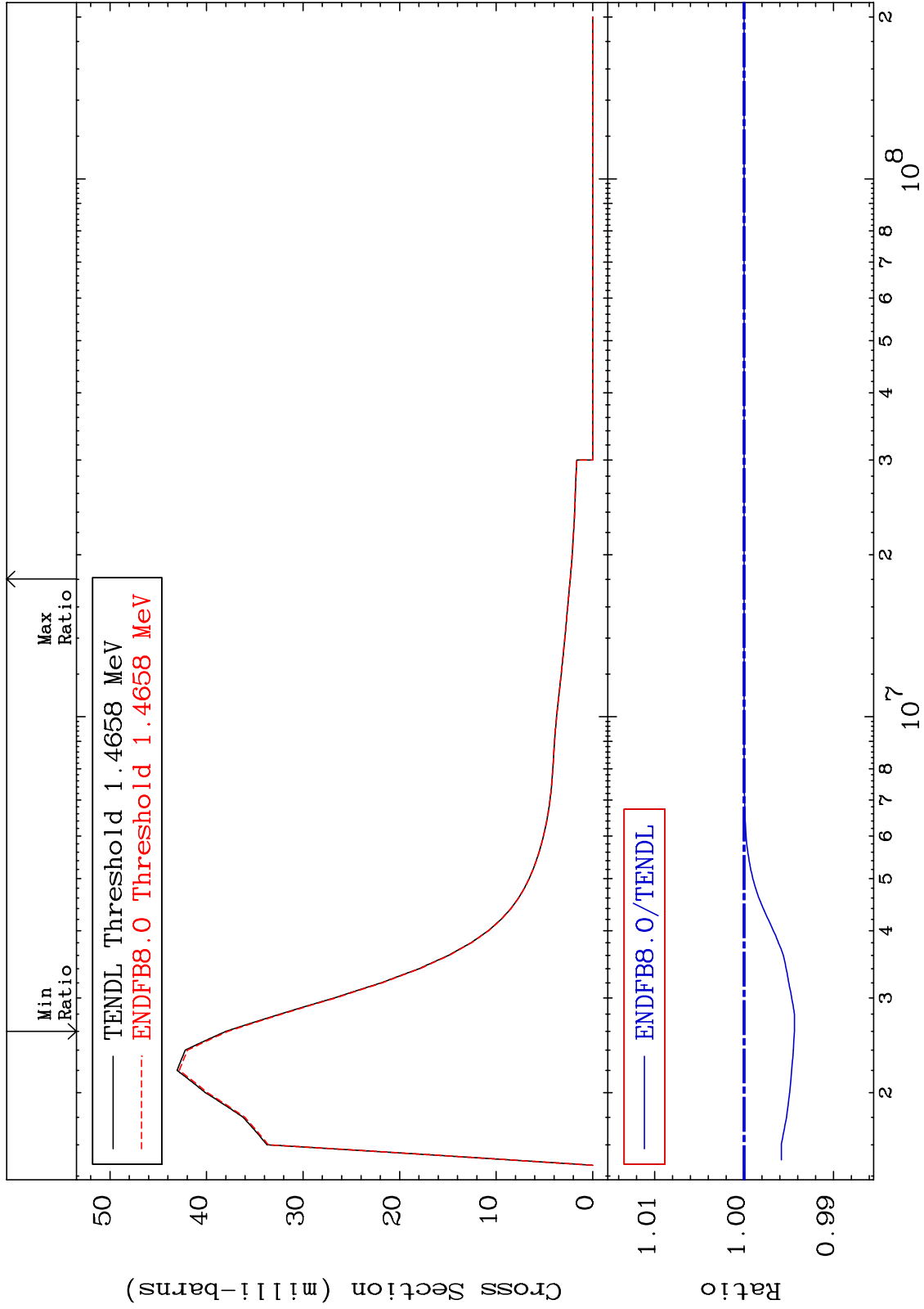
MAT 6143 MT= 78 (n,n') Level Cross Section 61-Pm-145 -1.692 To 0.000 %



MAT 6143

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

61-Pm-145
-0.564 To 0.000 %



48

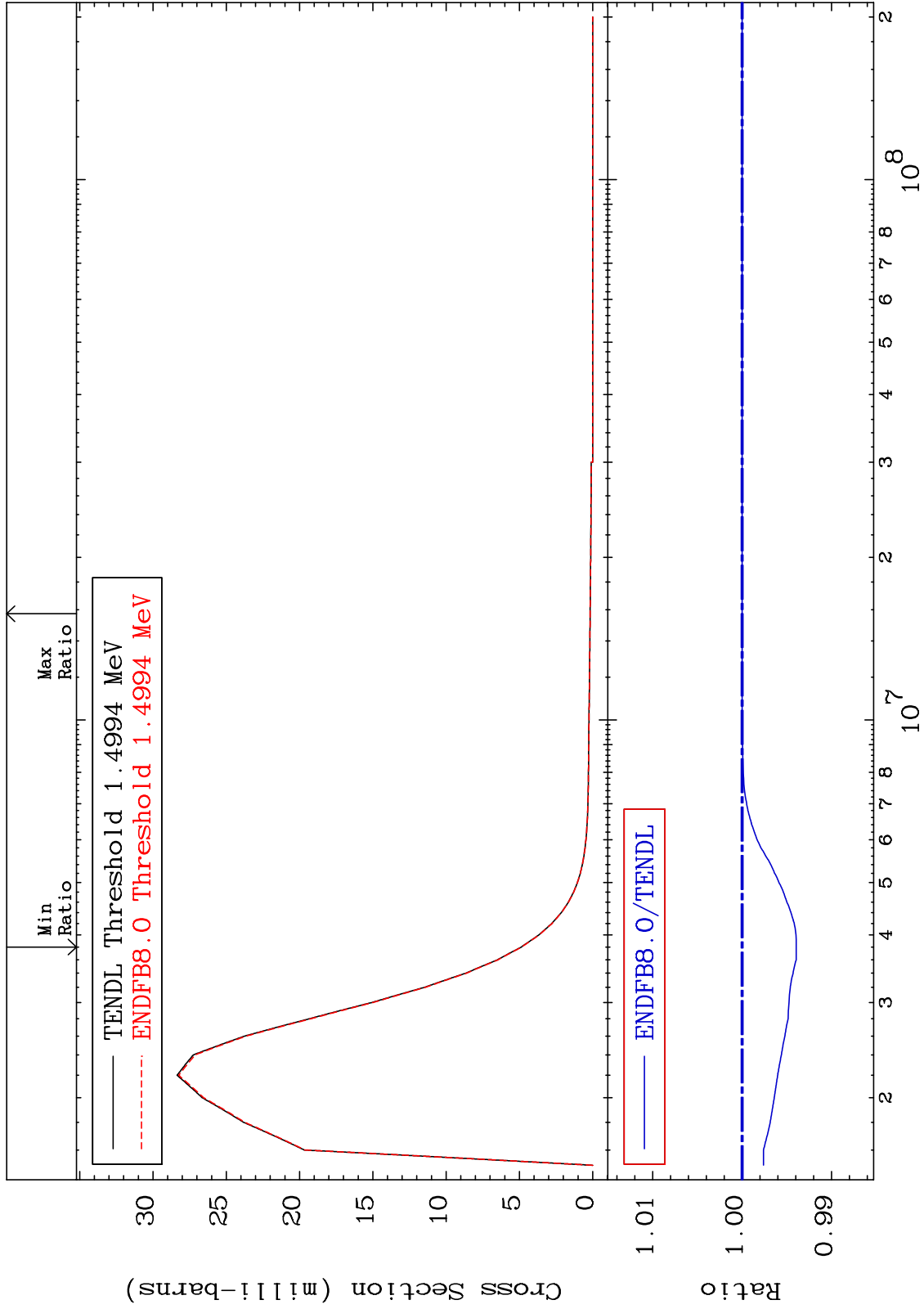
Incident Energy (eV)

61-Pm-145

MAT 6143

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

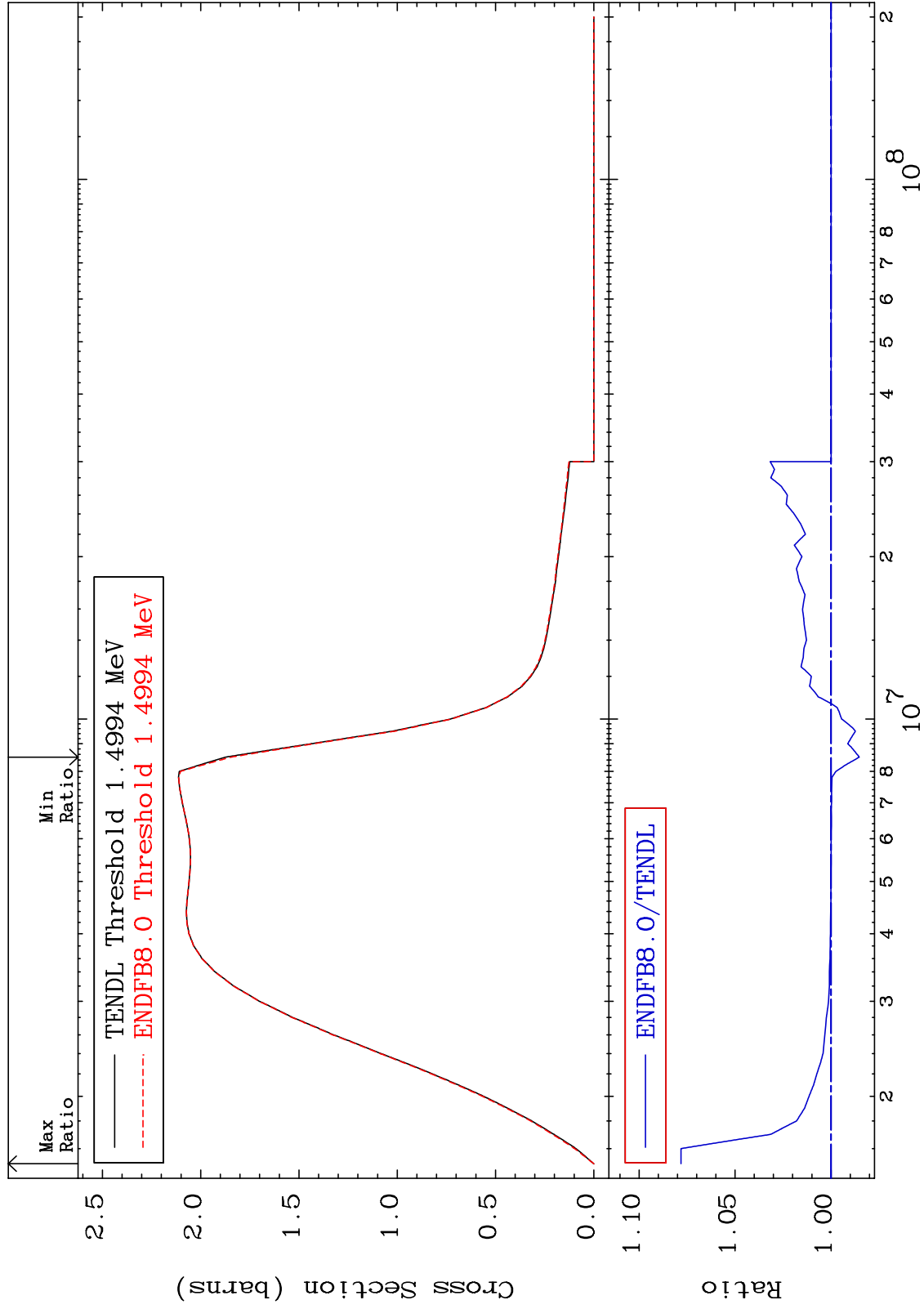
61-Pm-145
-0.606 To 0.000 %



MAT 6143

(n, n') Continuum
Cross Section

61-Pm-145
-1.472 To 7.817 %



50

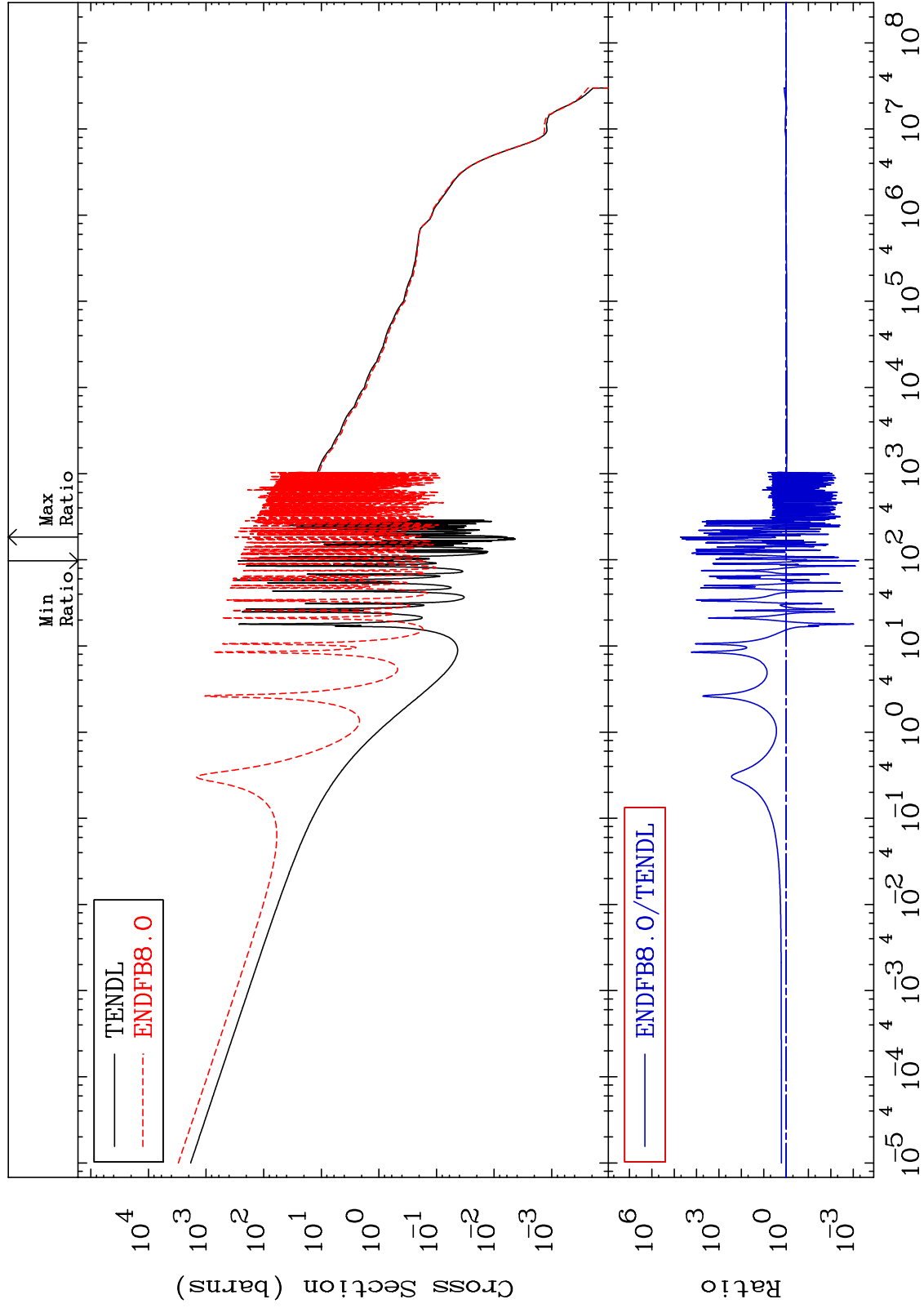
Incident Energy (eV)

61-Pm-145

MAT 6143

(n, γ)
Cross Section

61-Pm-145
-99.94 To 9999. %



51

Incident Energy (eV)

61-Pm-145

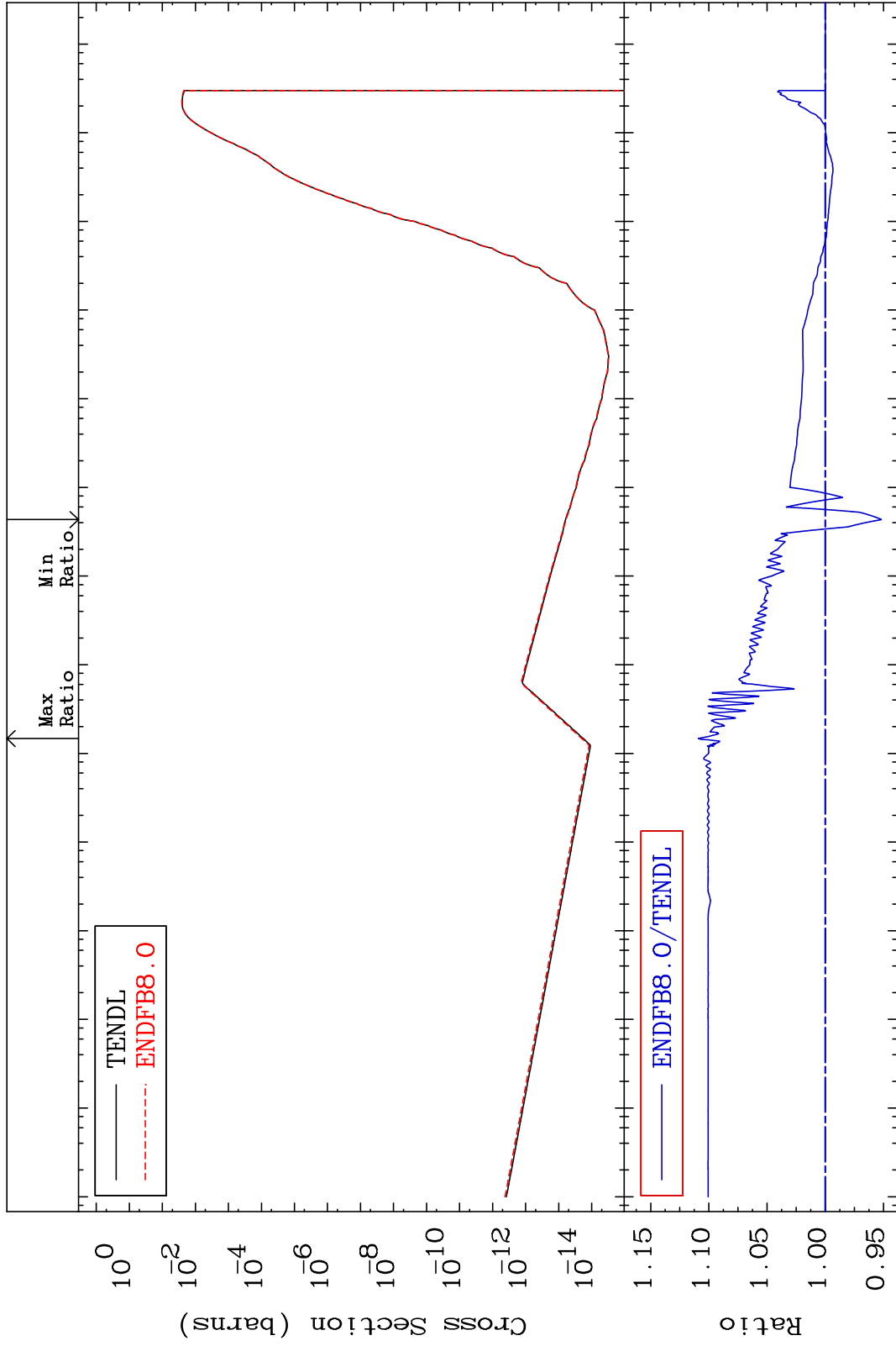
MAT 6143

(n, p)

61-Pm-145

Cross Section

-4.840 To 10.90 %



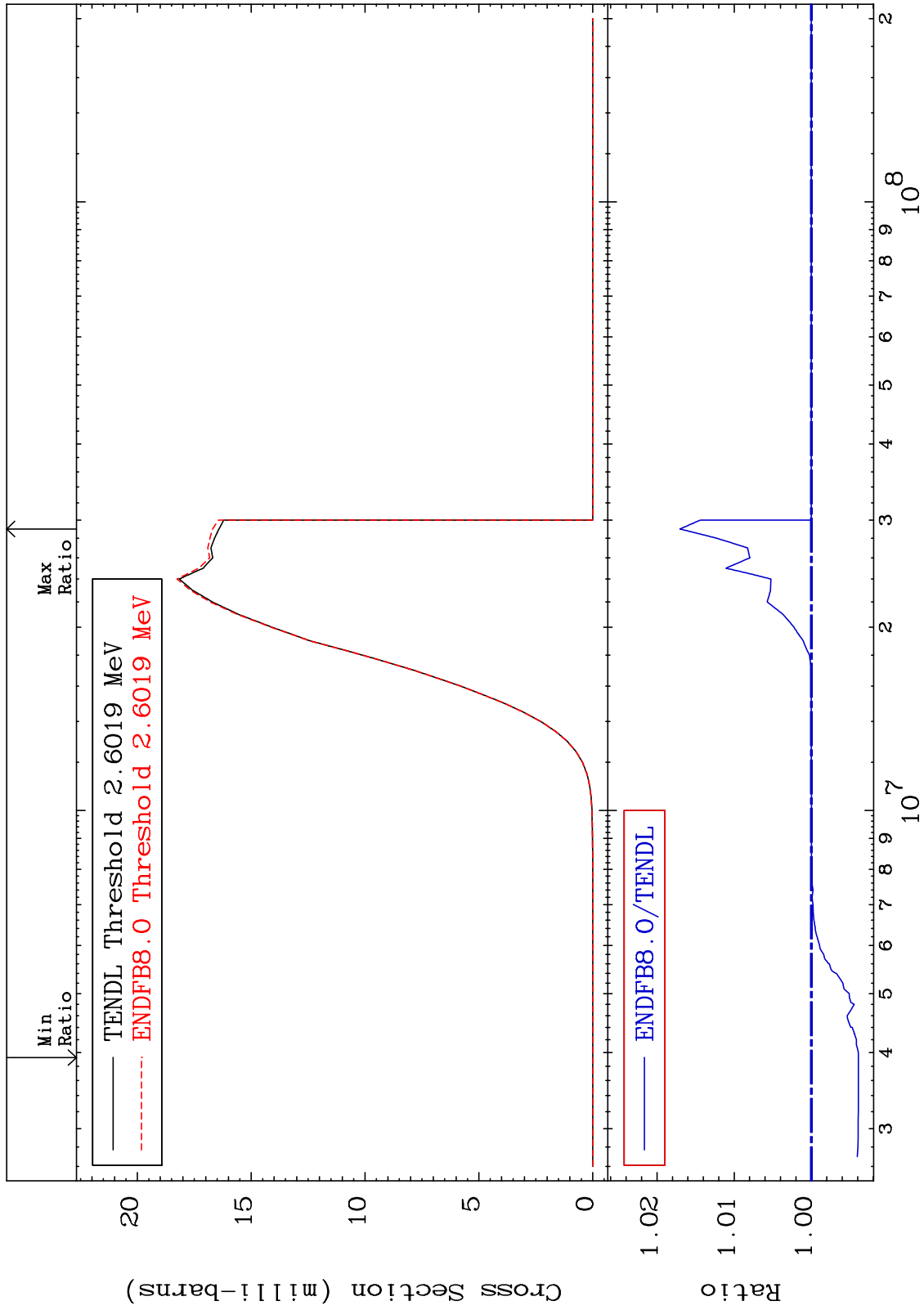
MAT 6143

(n, d)

61-Pm-145

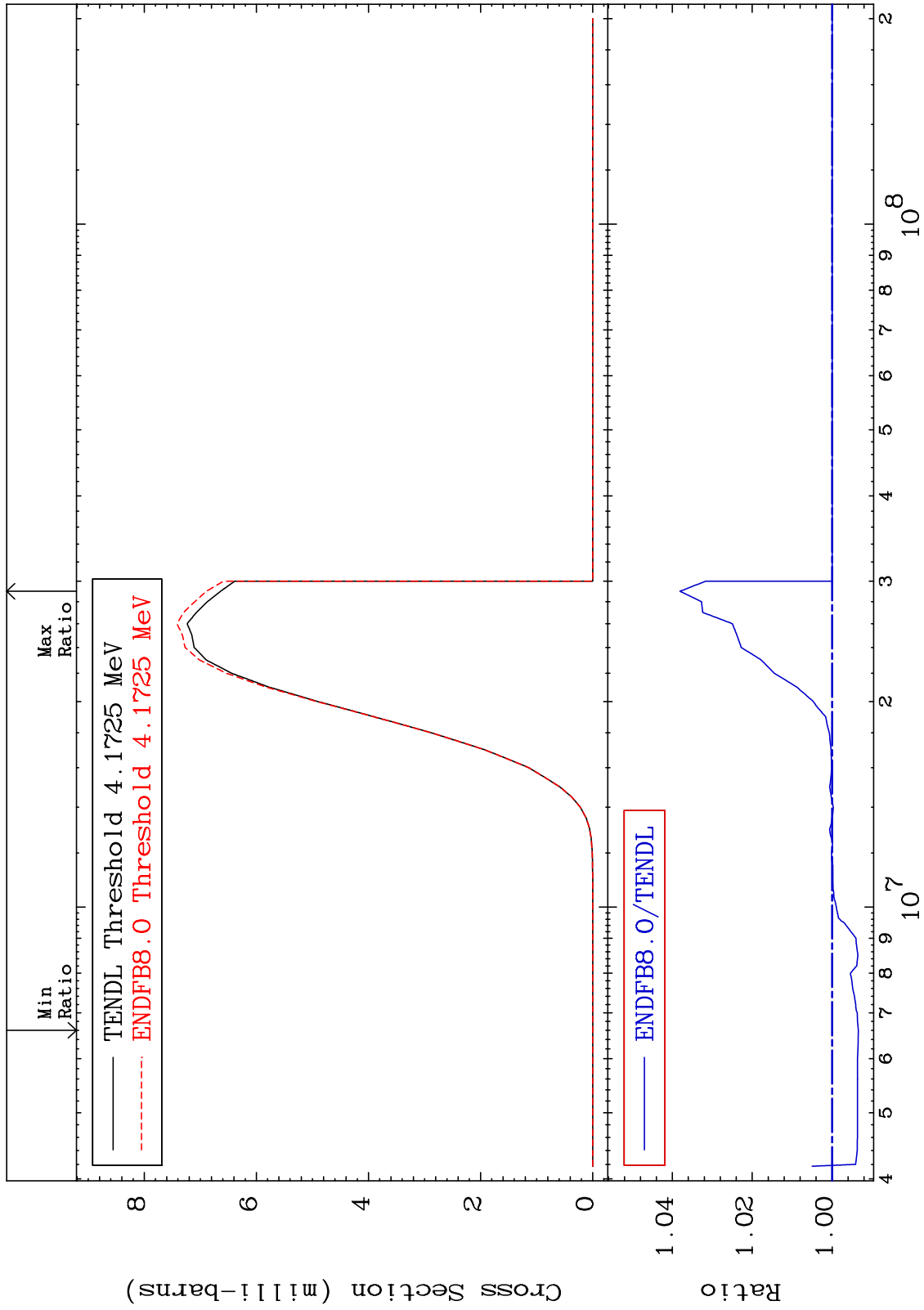
Cross Section

-0.610 To 1.702 %



MAT 6143 61-Pm-145
-0.659 To 3.809 %

(n, t)
 Cross Section



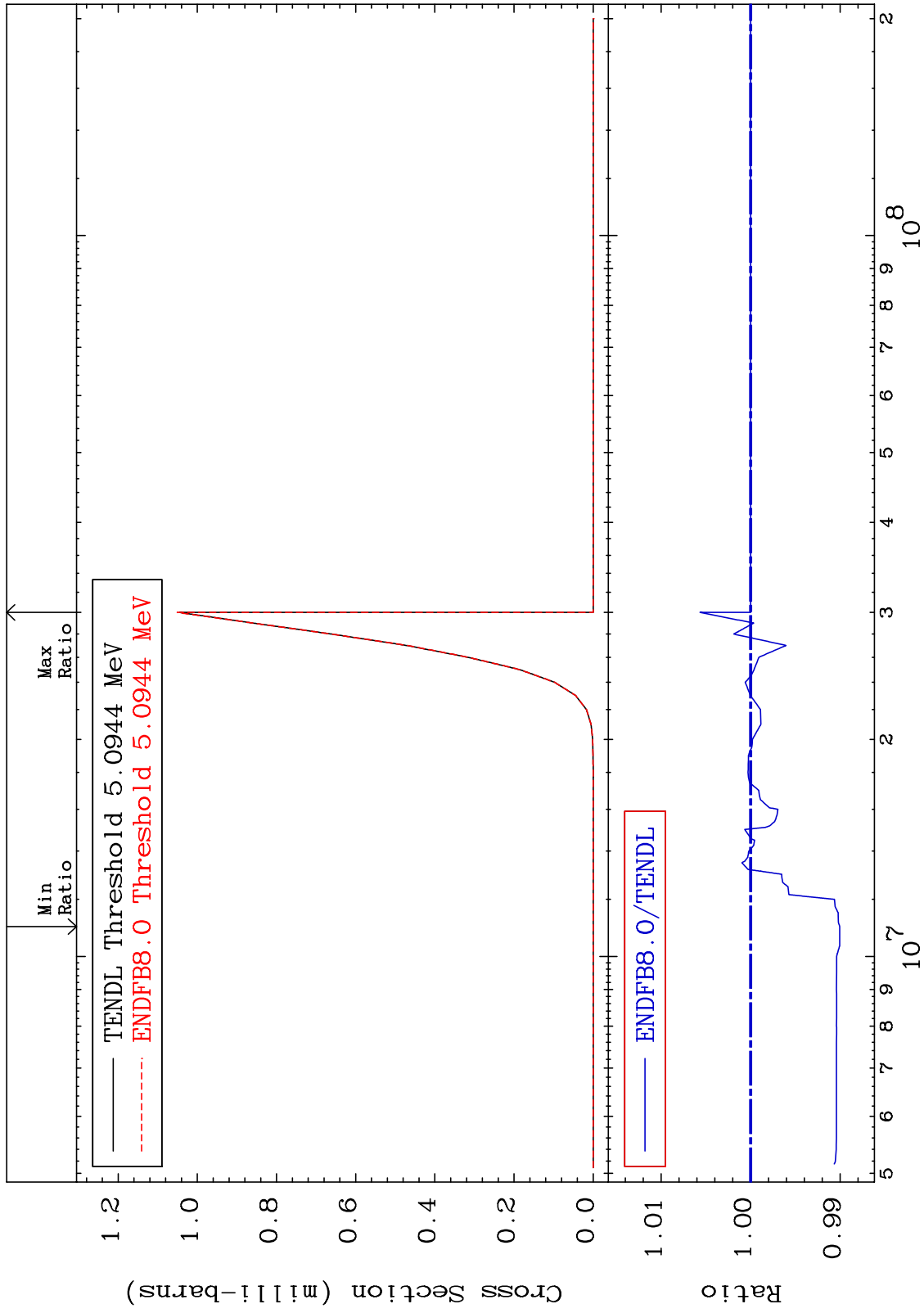
MAT 6143

(n, He-3)

61-Pm-145

Cross Section

-0.995 To 0.566 %



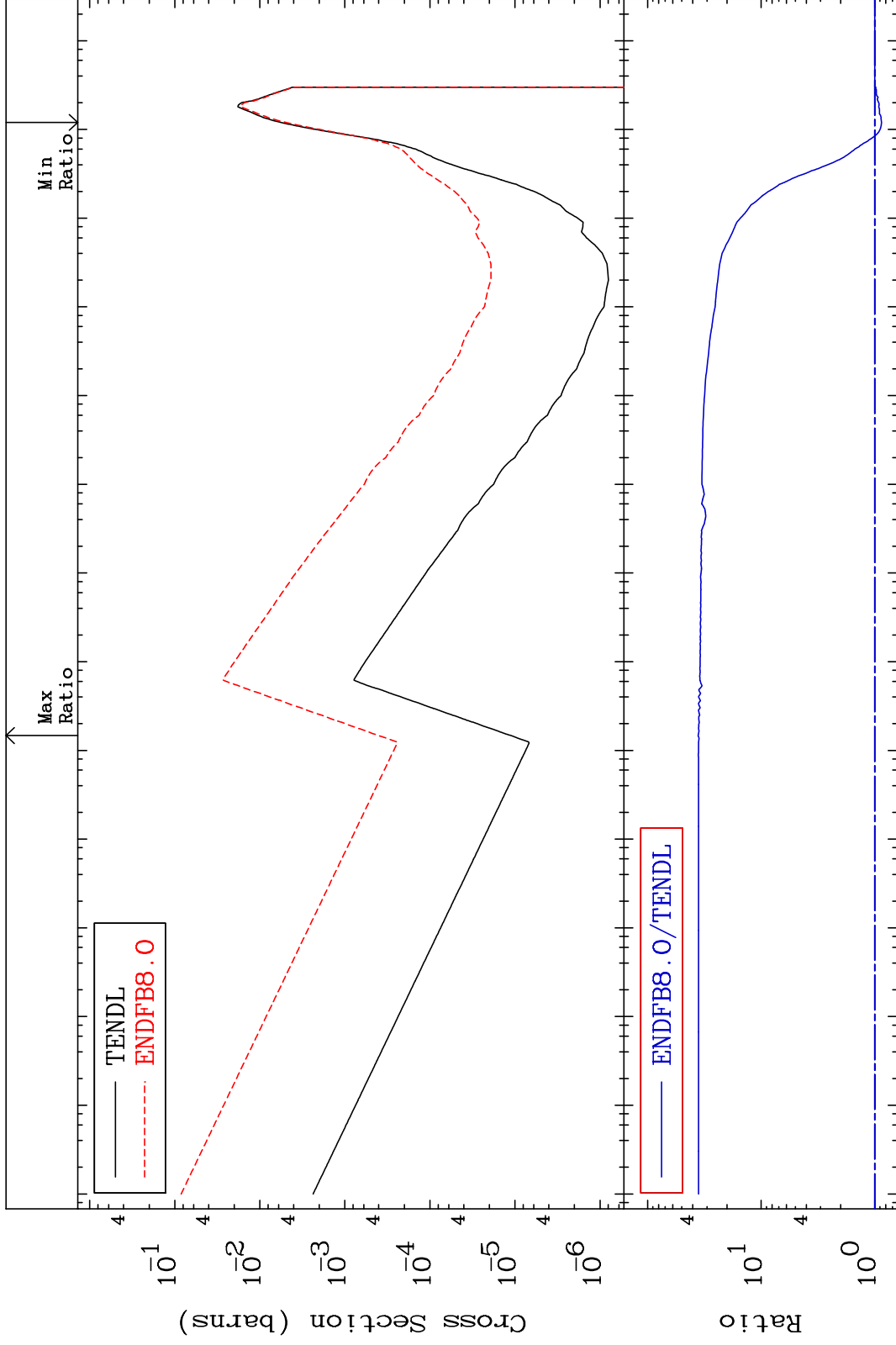
MAT 6143

(n, α)

61-Pm-145

Cross Section

-12.76 To 3486. %



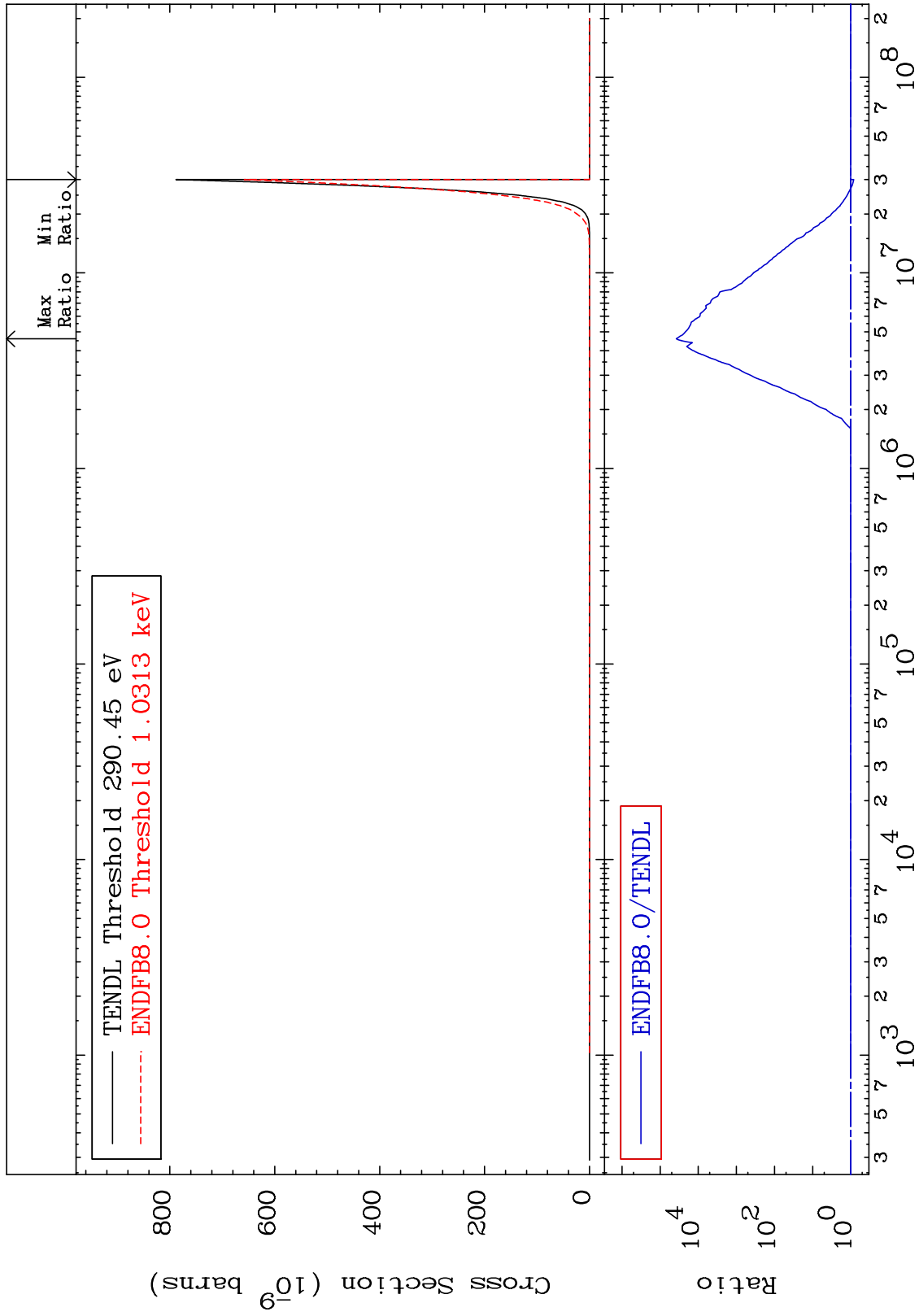
MAT 6143

(n,2α)

61-Pm-145

Cross Section

-16.50 To 9999. %



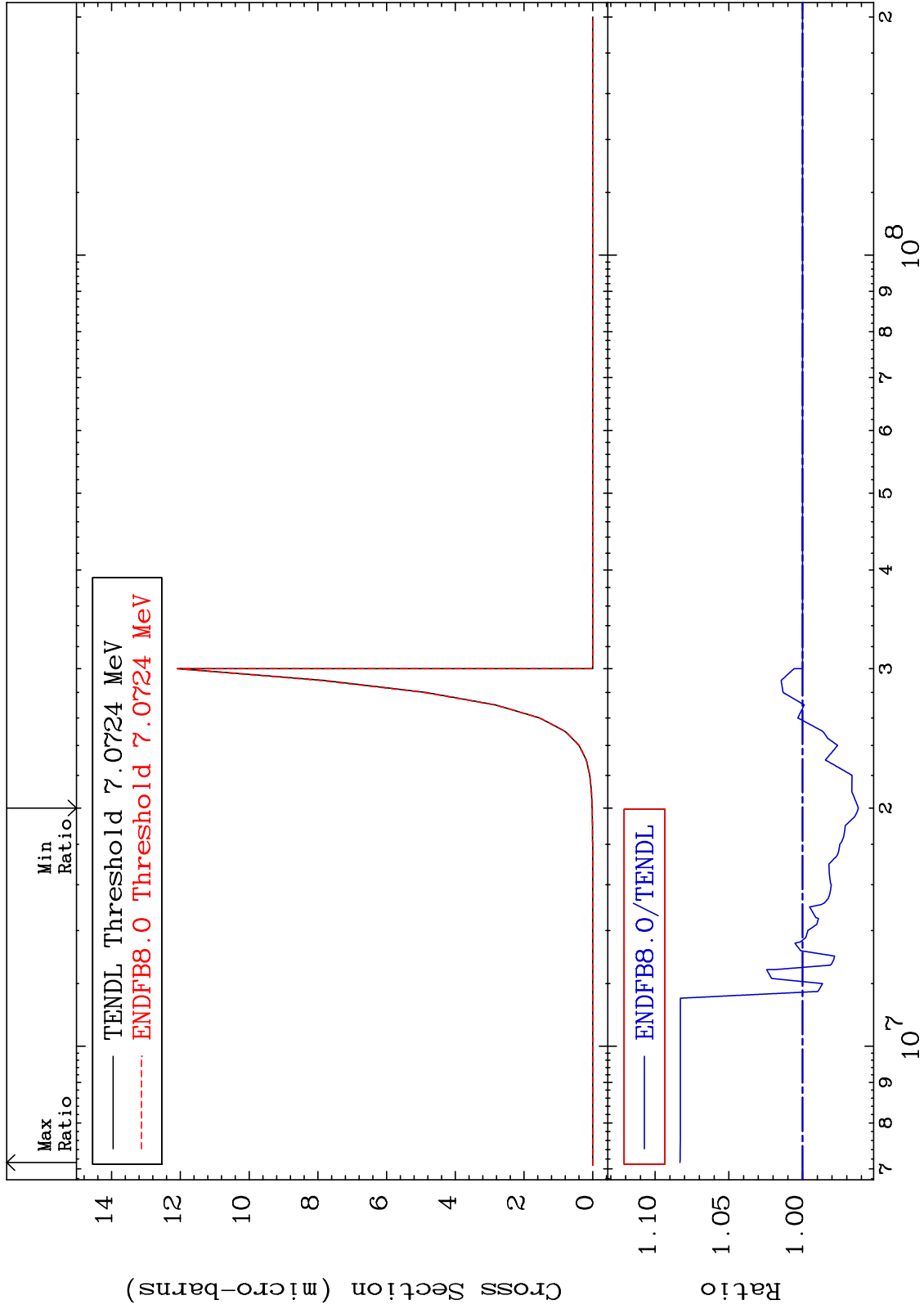
MAT 6143

(n,2p)

61-Pm-145

Cross Section

-3.789 To 8.311 %



58

Incident Energy (eV)

61-Pm-145

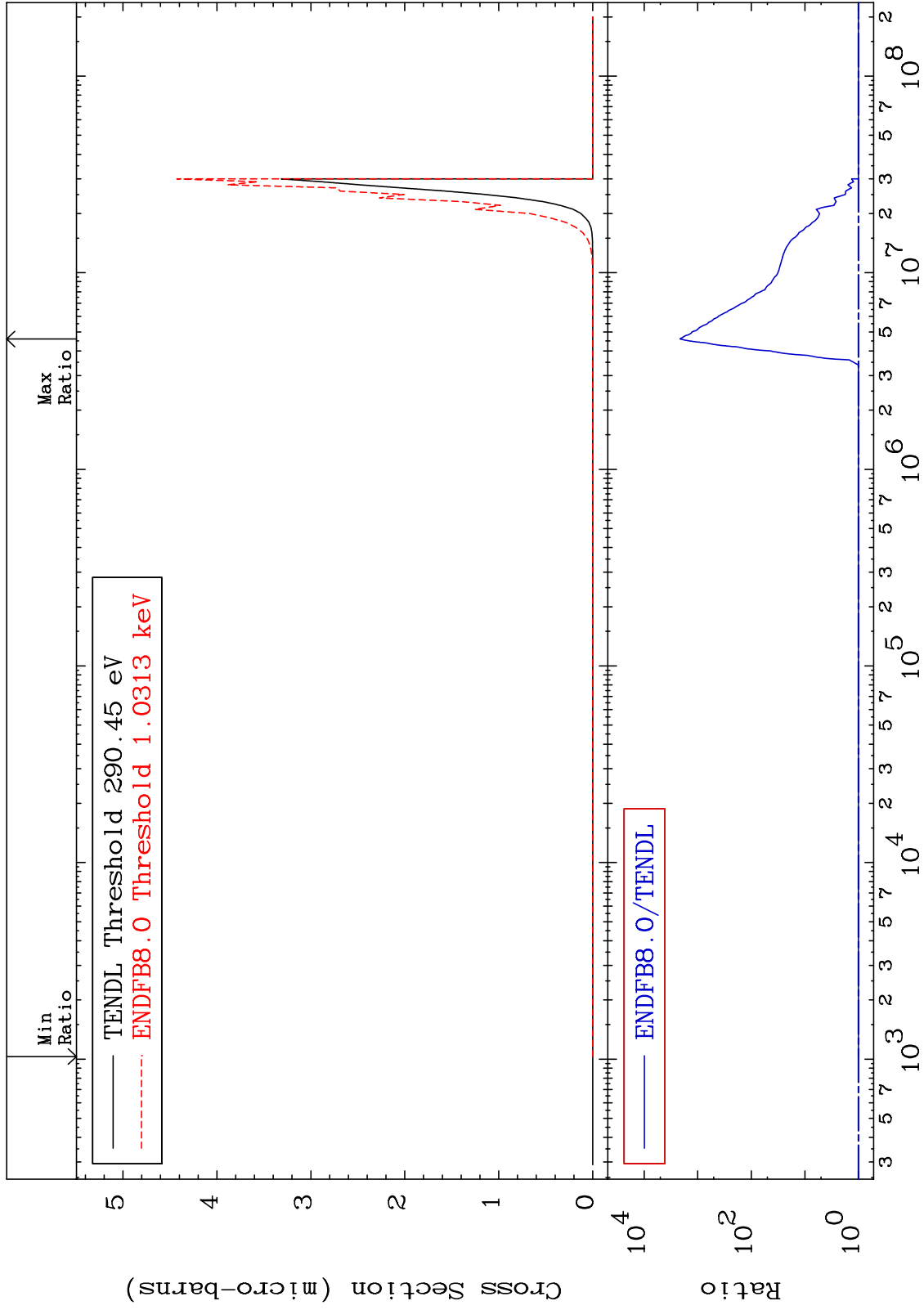
MAT 6143

(n,p) α

61-Pm-145

Cross Section

0.000 To 9999. %



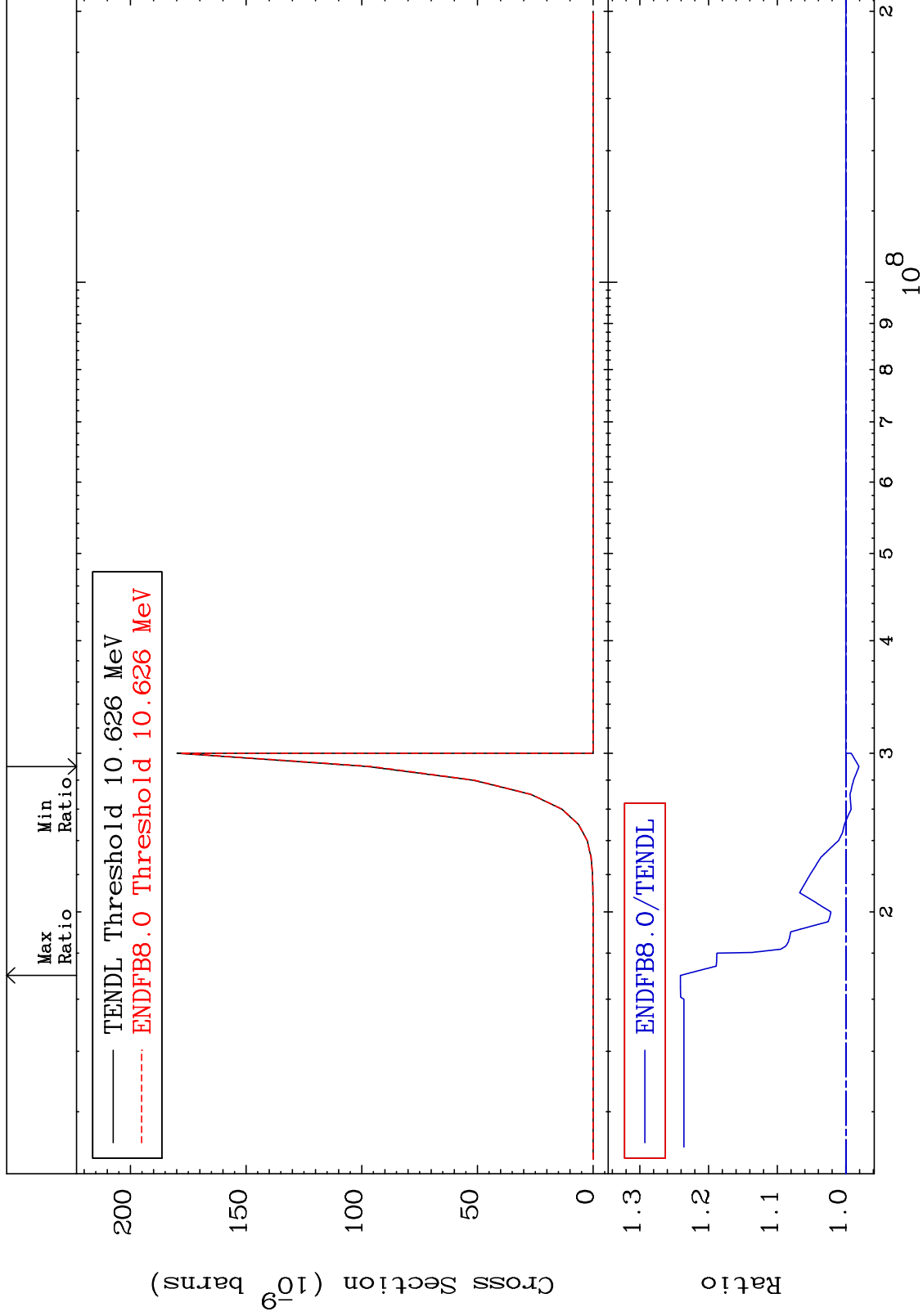
MAT 6143

(n,p) d

61-Pm-145

Cross Section

-1.897 To 24.07 %



60

Incident Energy (eV)

61-Pm-145

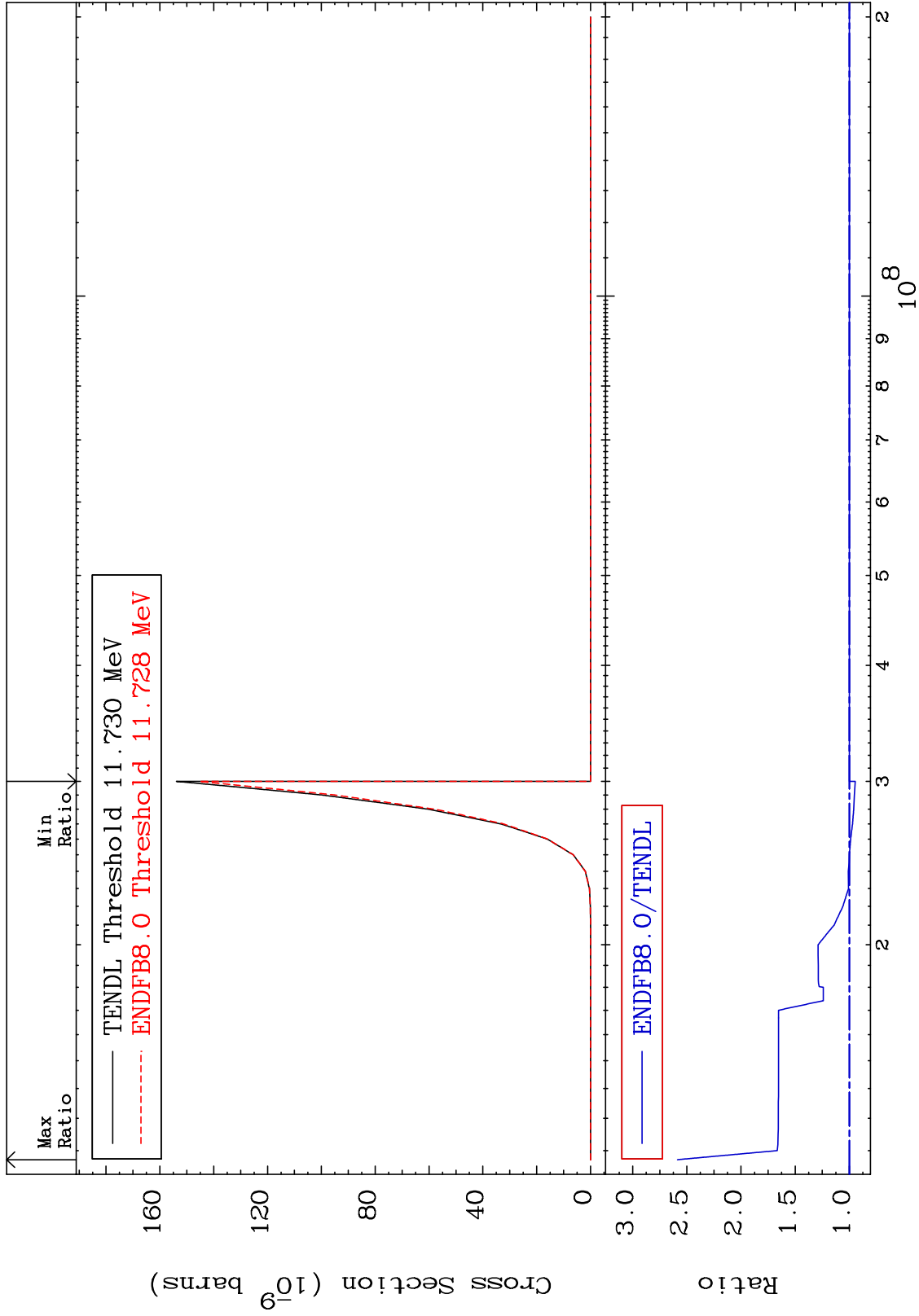
MAT 6143

(n,p) t

61-Pm-145

Cross Section

-5.498 To 158.6 %



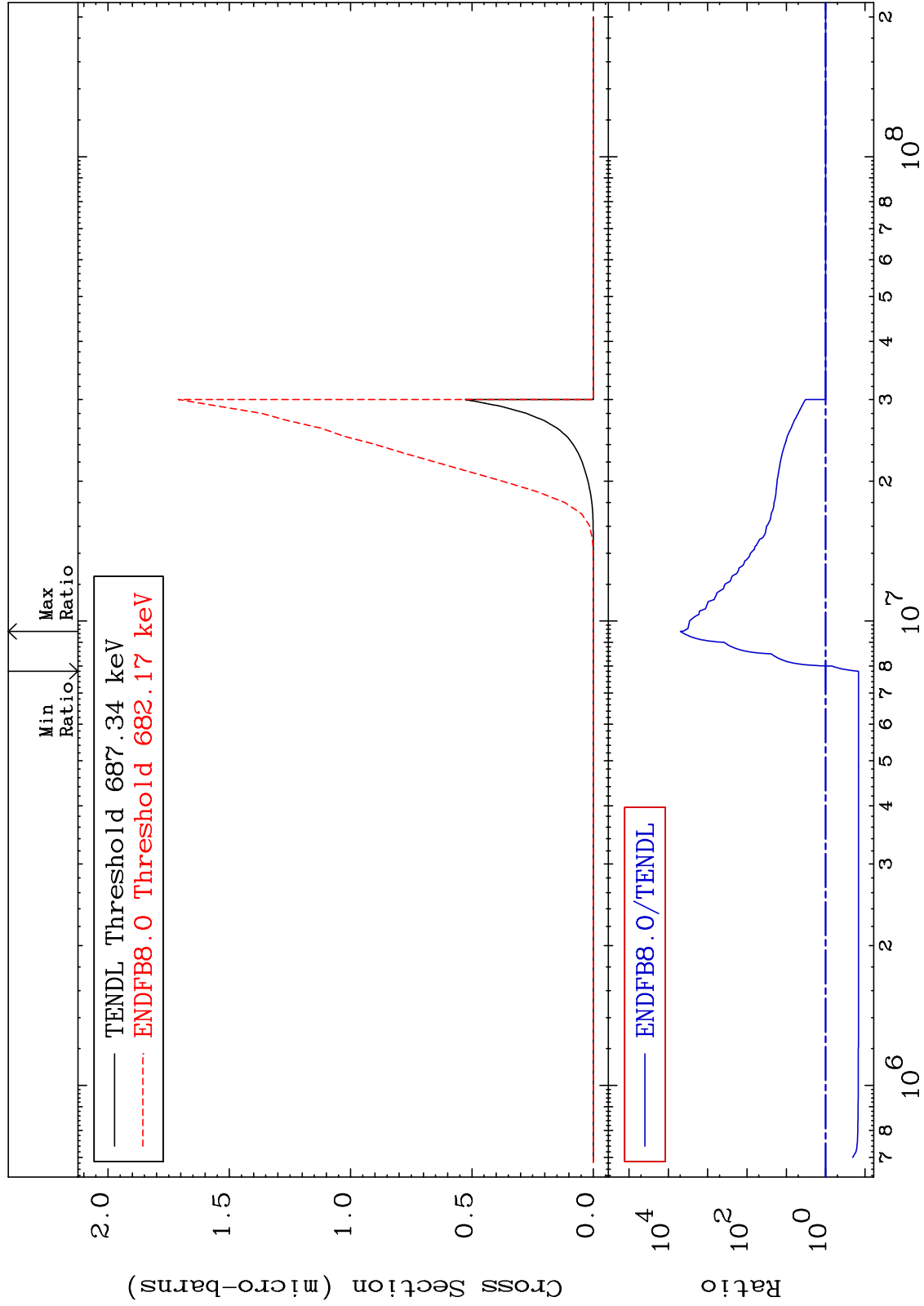
MAT 6143

(n,d) α

61-Pm-145

-85.44 To 9999. %

Cross Section



62

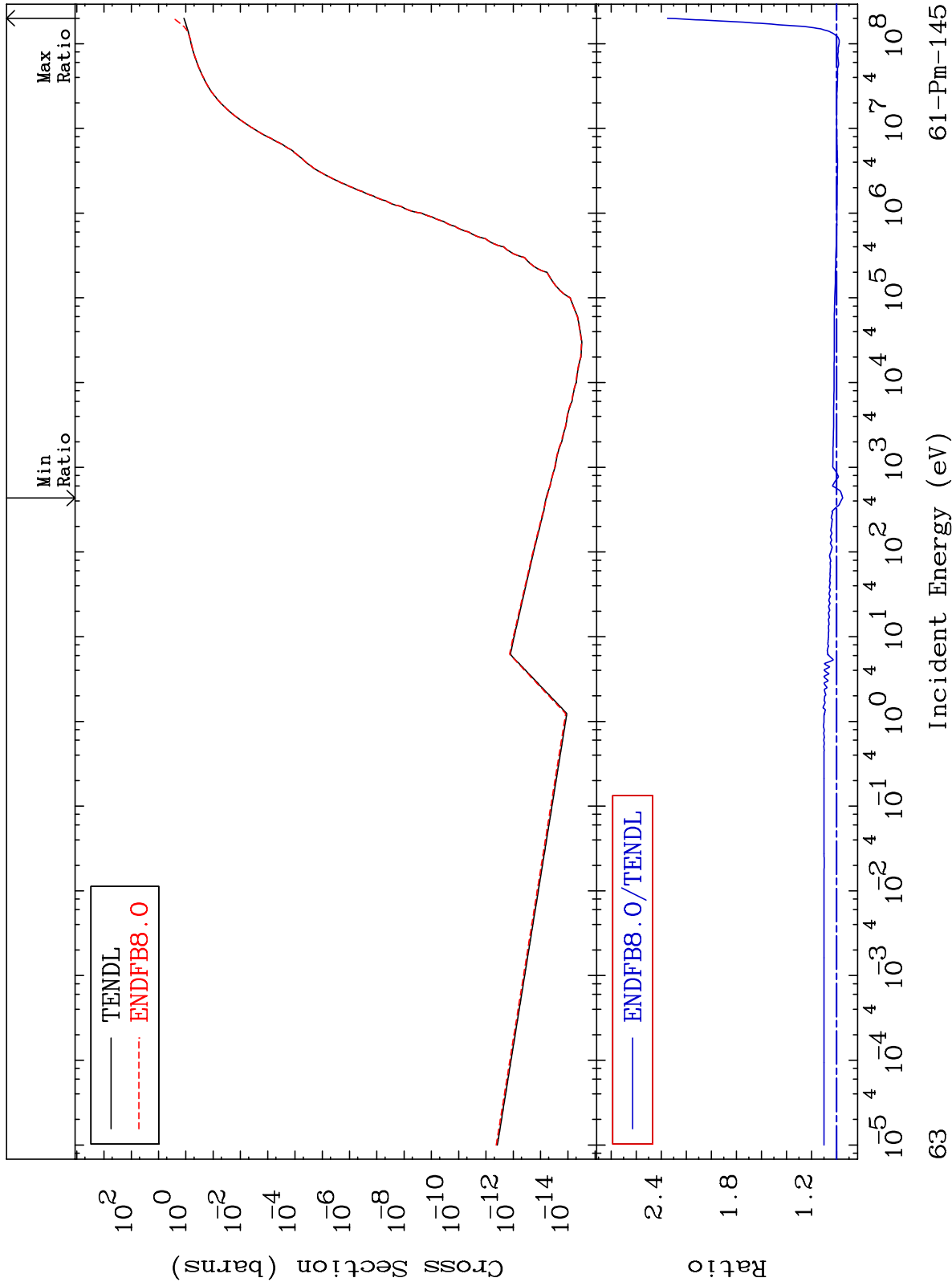
Incident Energy (eV)

61-Pm-145

MAT 6143

Hydrogen Production
Cross Section

61-Pm-145
-4.840 To 134.9 %



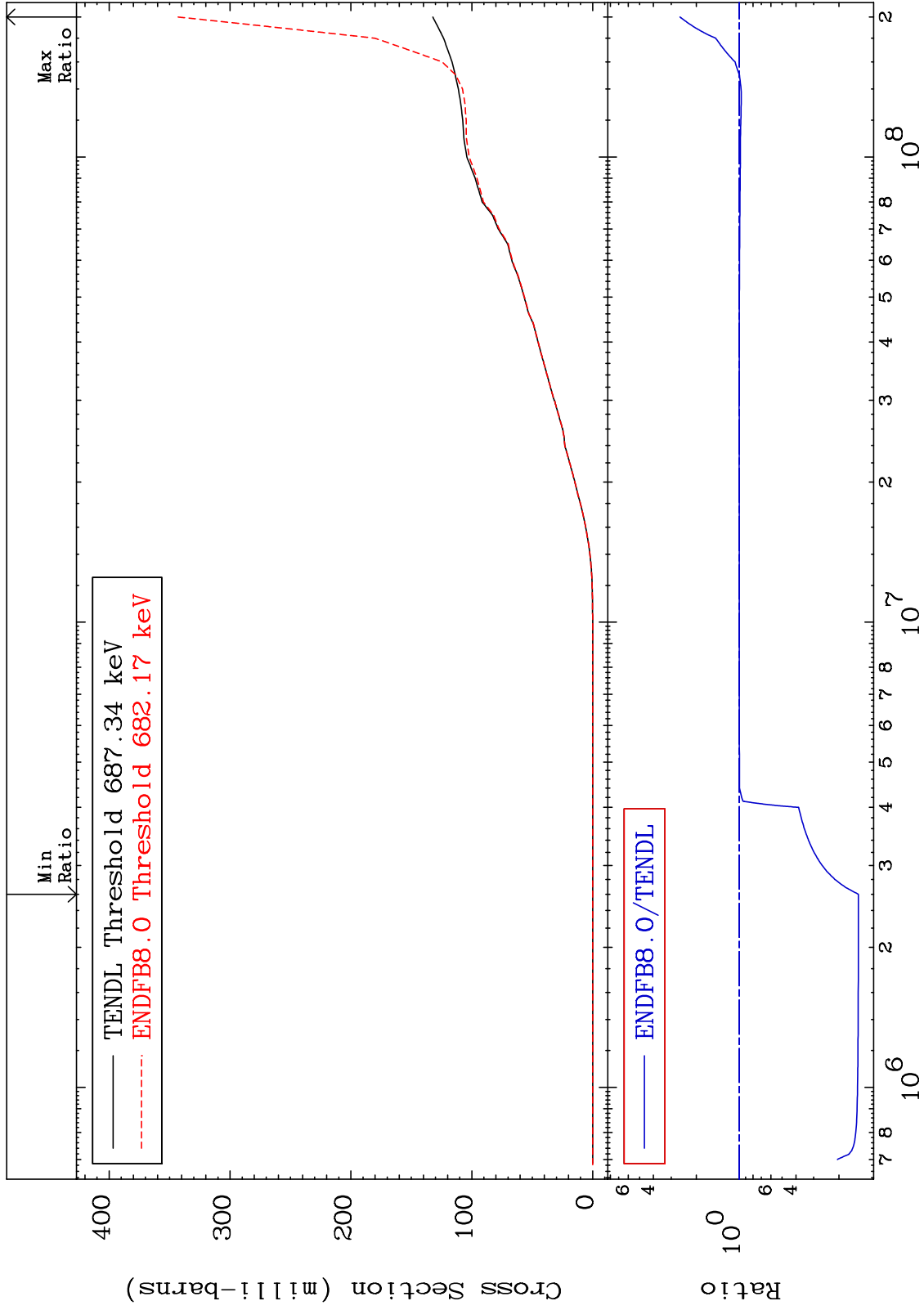
63

61-Pm-145

MAT 6143

Deuterium Production
Cross Section

61-Pm-145
-85.41 To 159.9 %



64

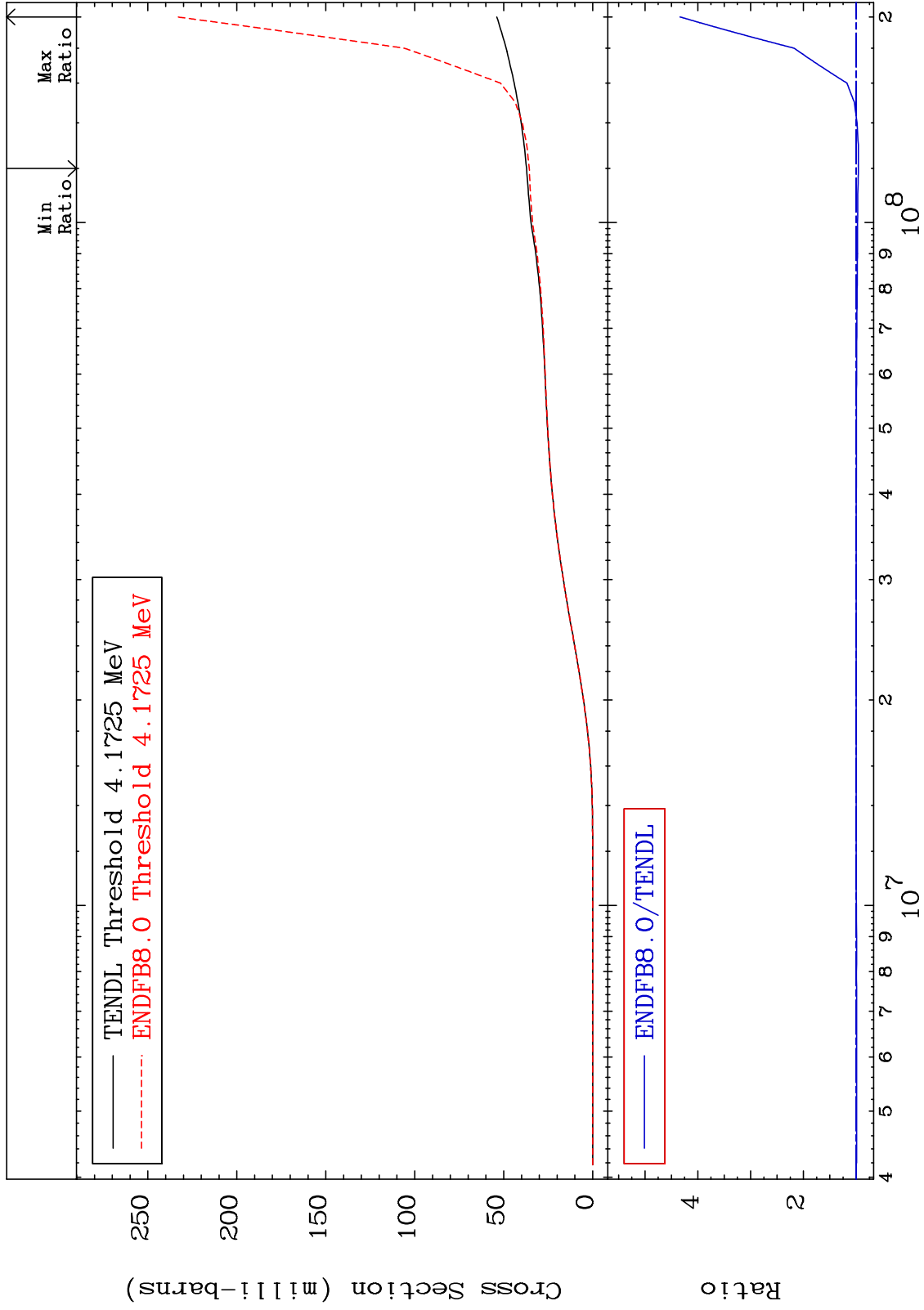
Incident Energy (eV)

61-Pm-145

MAT 6143

Tritium Production
Cross Section

61-Pm-145
-4.100 To 333.7 %



65

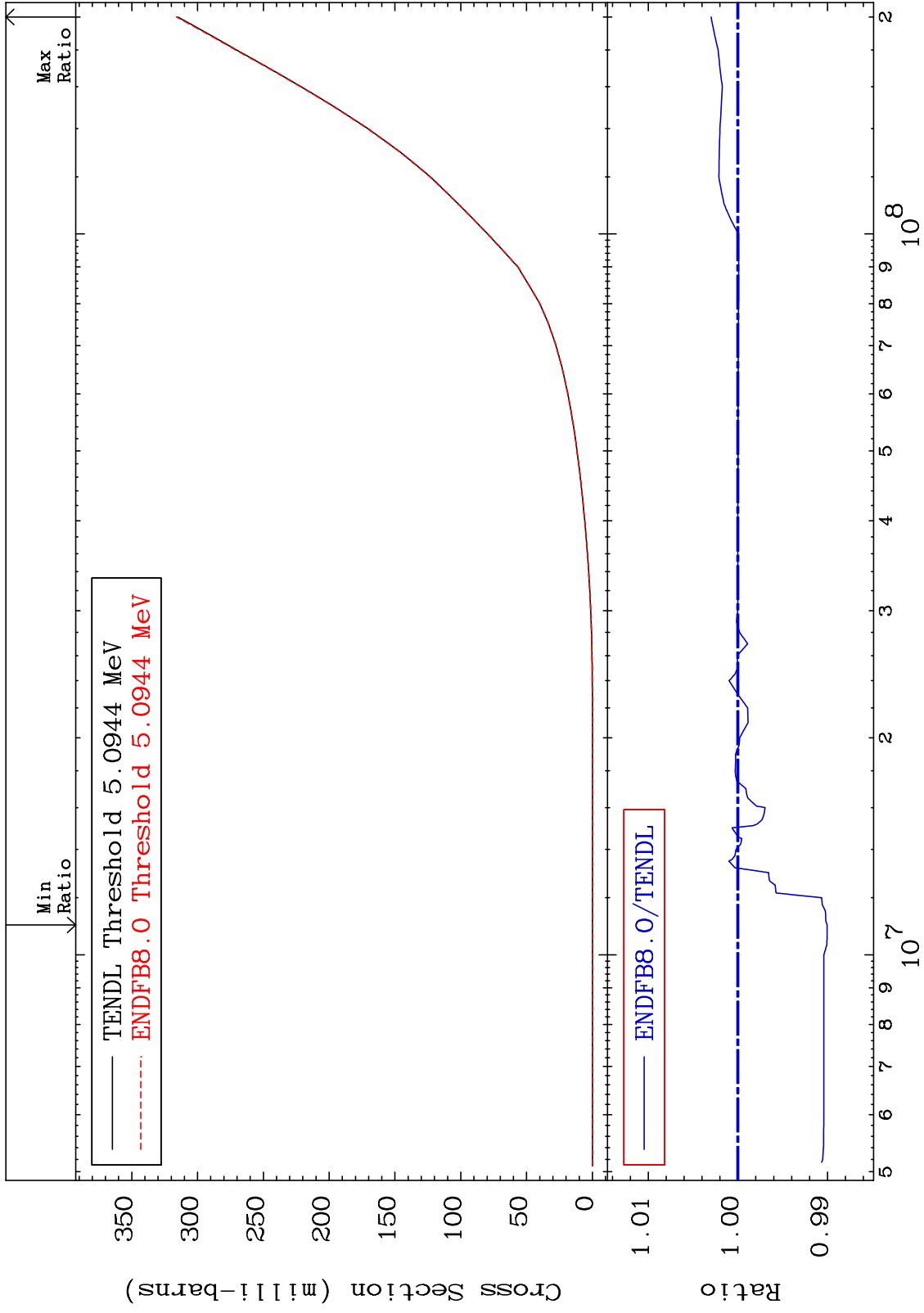
Incident Energy (eV)

61-Pm-145

MAT 6143

He-3 Production
Cross Section

61-Pm-145
-0.995 To 0.299 %



66

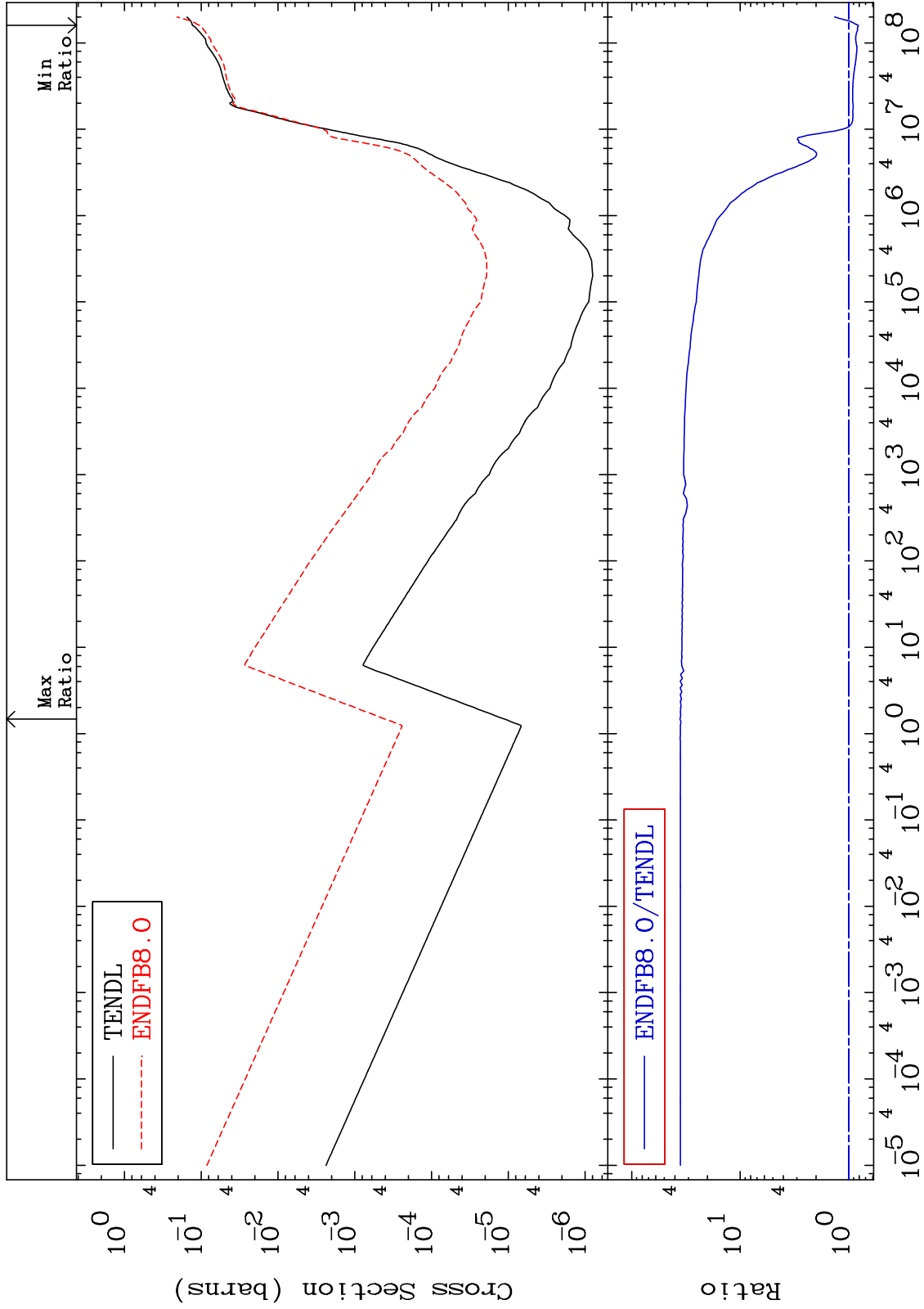
Incident Energy (eV)

61-Pm-145

MAT 6143

He-4 Production
Cross Section

61-Pm-145
-18.65 To 3486. %



67

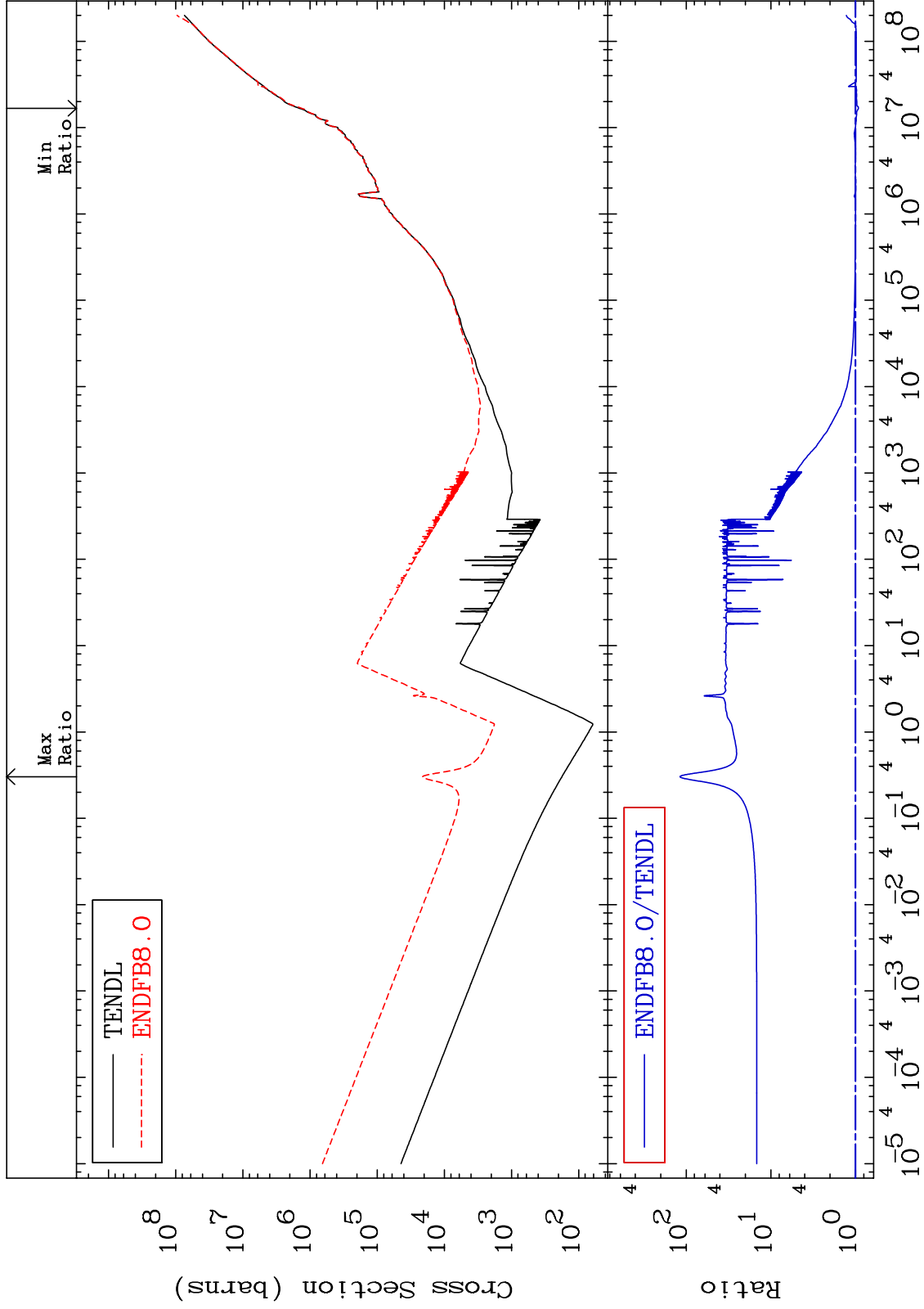
Incident Energy (eV)

61-Pm-145

MAT 6143

Kerma total (eV-barns)
Cross Section

61-Pm-145
-7.383 To 9999. %



68

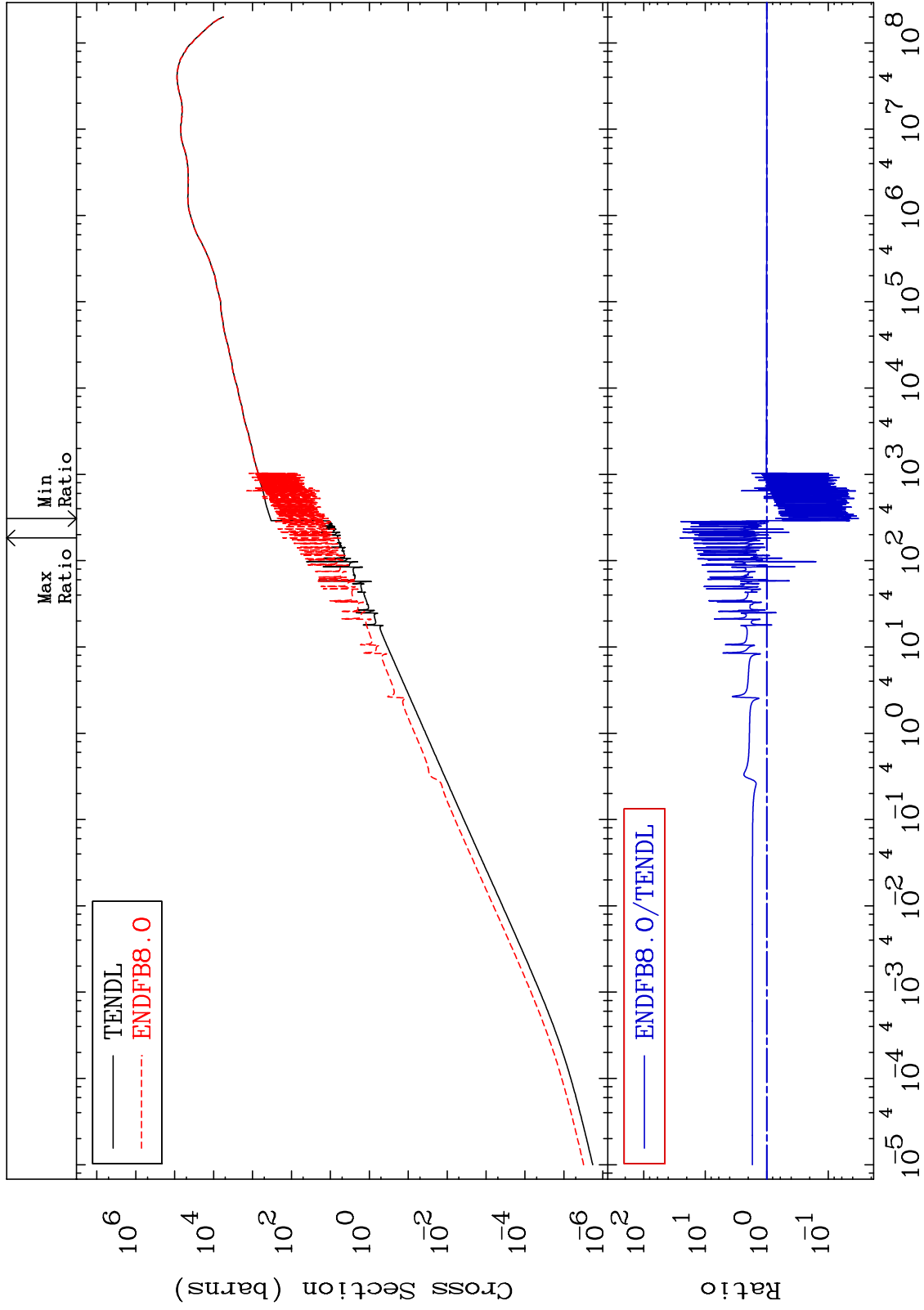
Incident Energy (eV)

61-Pm-145

MAT 6143

Kerma elastic
Cross Section

61-Pm-145
-96.78 To 2470. %



69

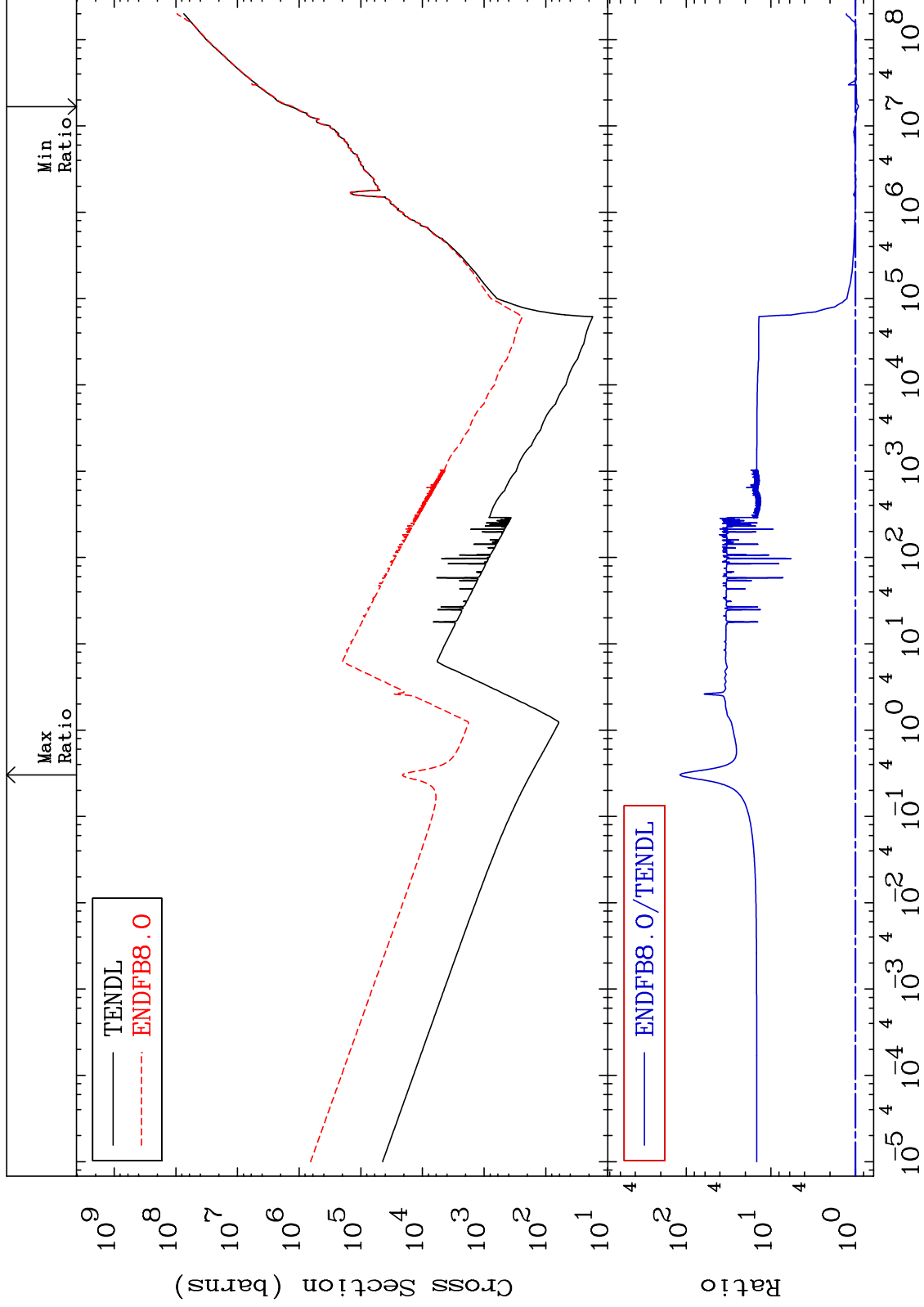
Incident Energy (eV)

61-Pm-145

MAT 6143

Kerma non-elastic (all but mt2)
Cross Section

61-Pm-145
-7.729 To 9999. %



70

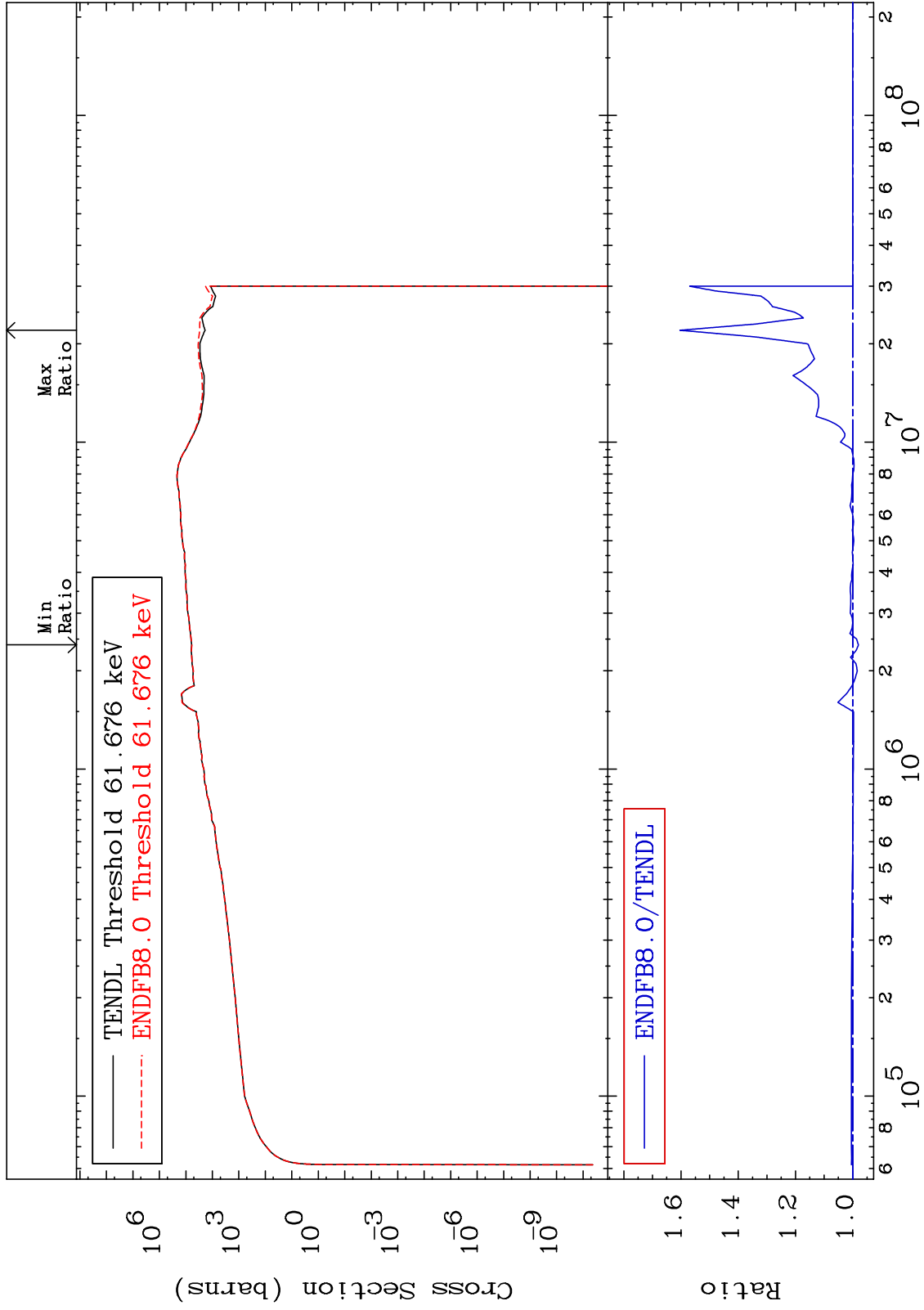
Incident Energy (eV)

61-Pm-145

MAT 6143

Kerma inelastic (mt51-91)
Cross Section

61-Pm-145
-1.993 To 60.36 %



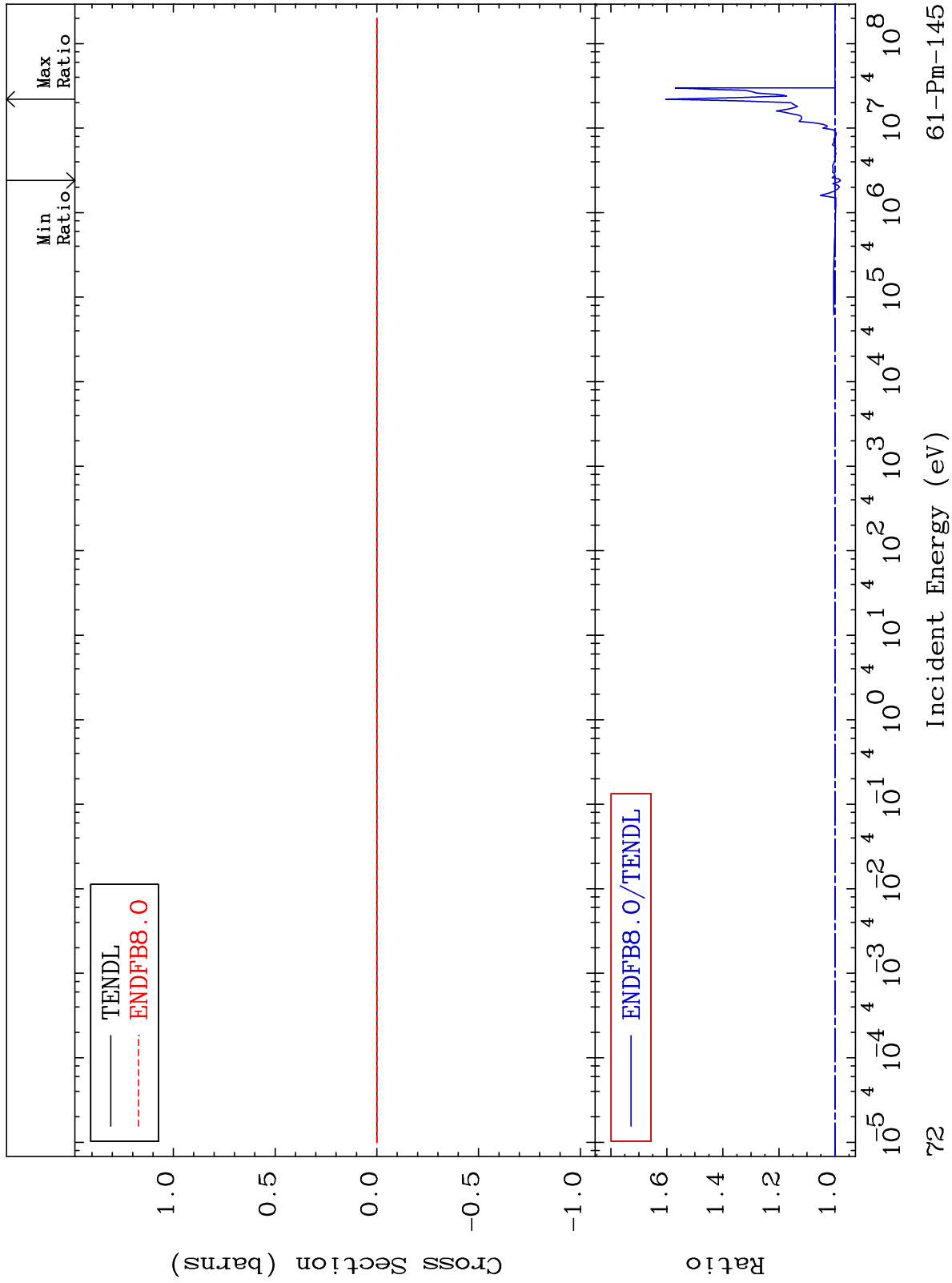
71

61-Pm-145

MAT 6143

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

61-Pm-145
-1.993 To 60.36 %



72

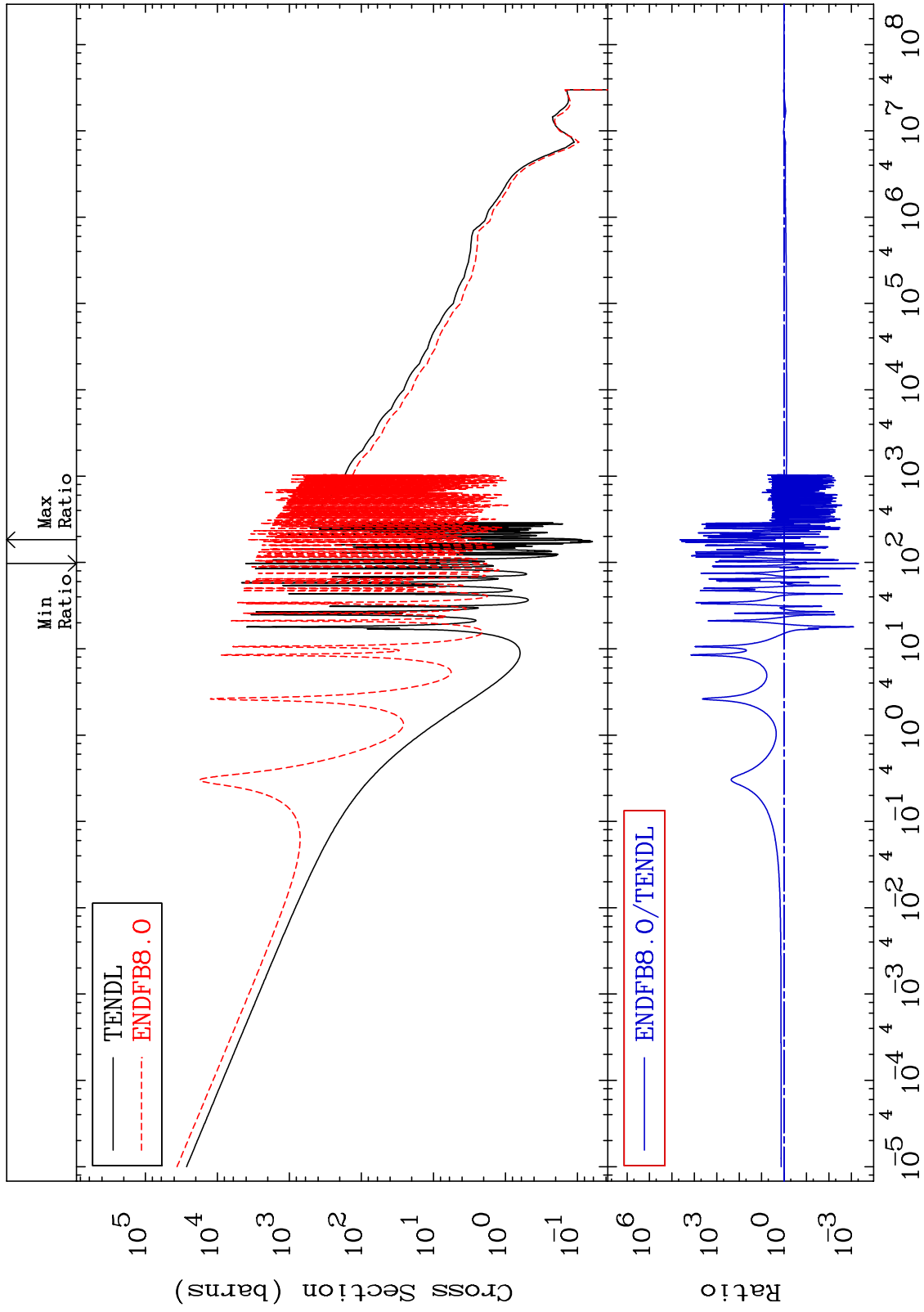
Incident Energy (eV)

61-Pm-145

MAT 6143

Kerma capture (mt102)
Cross Section

61-Pm-145
-99.95 To 9999. %



73

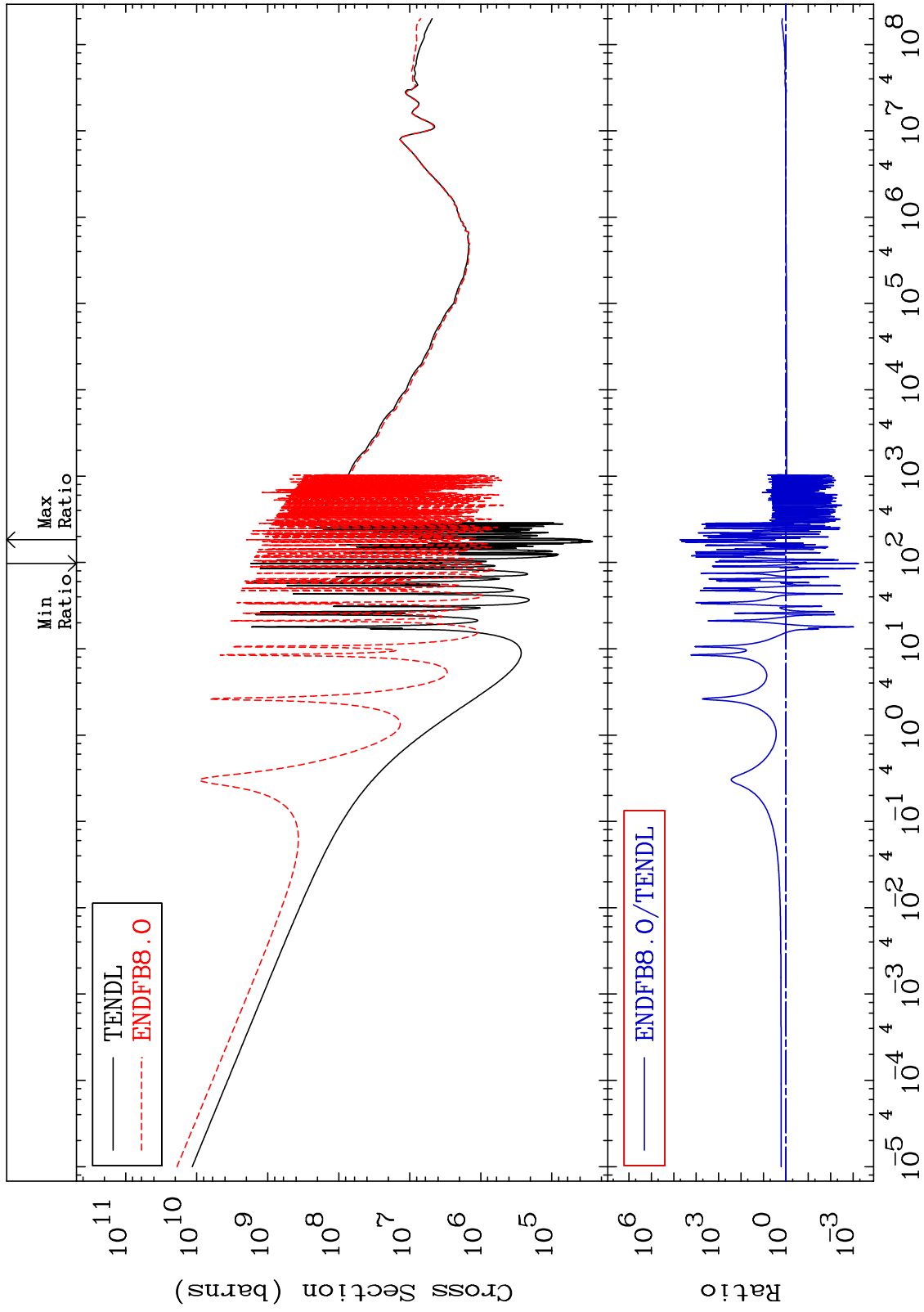
Incident Energy (eV)

61-Pm-145

MAT 6143

Total photon (eV-barns)
Cross Section

61-Pm-145
-99.94 To 9999. %



74

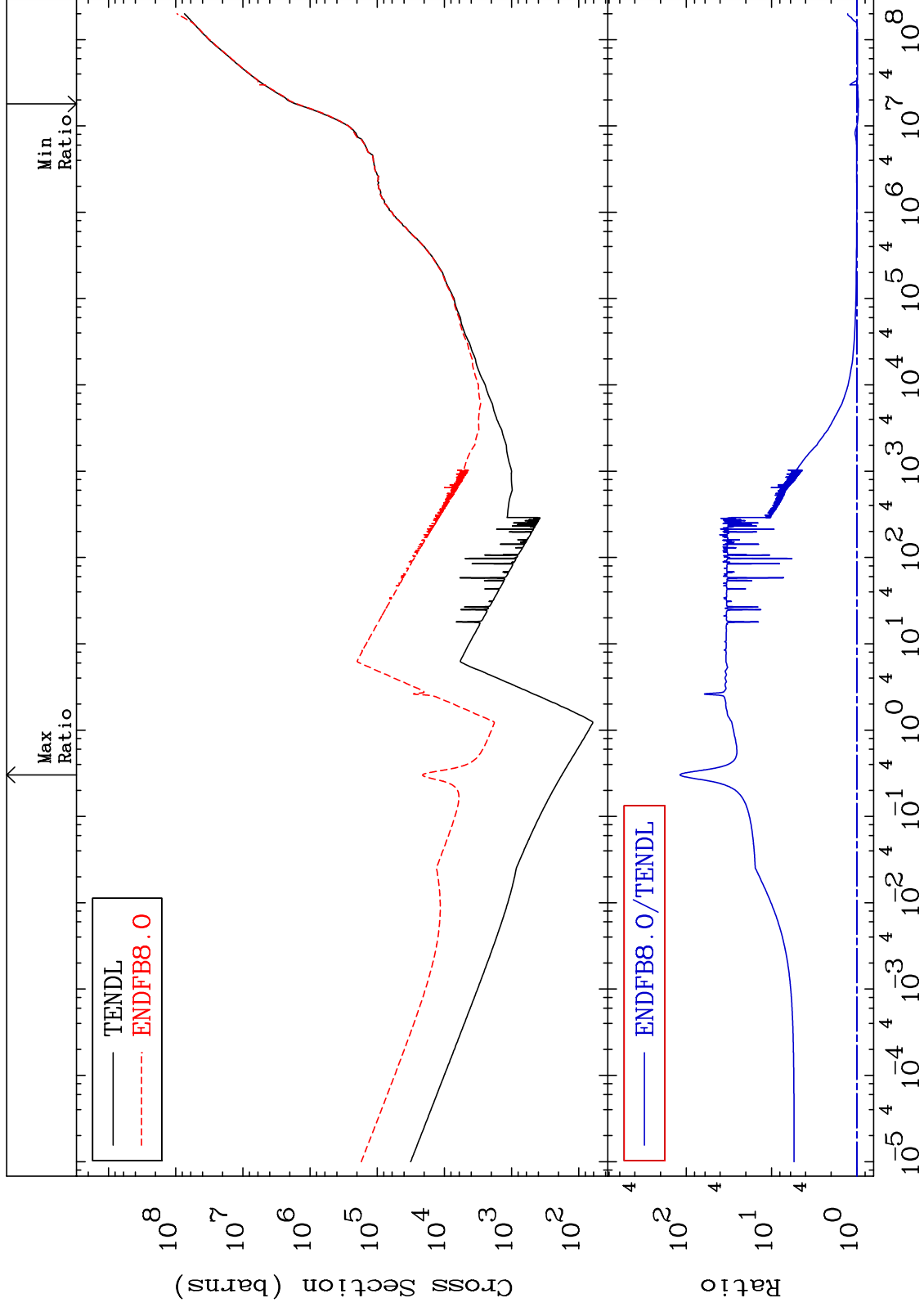
Incident Energy (eV)

61-Pm-145

MAT 6143

Total kinematic kerma (high limit)
Cross Section

61-Pm-145
-4.134 To 9999. %



75

Incident Energy (eV)

61-Pm-145

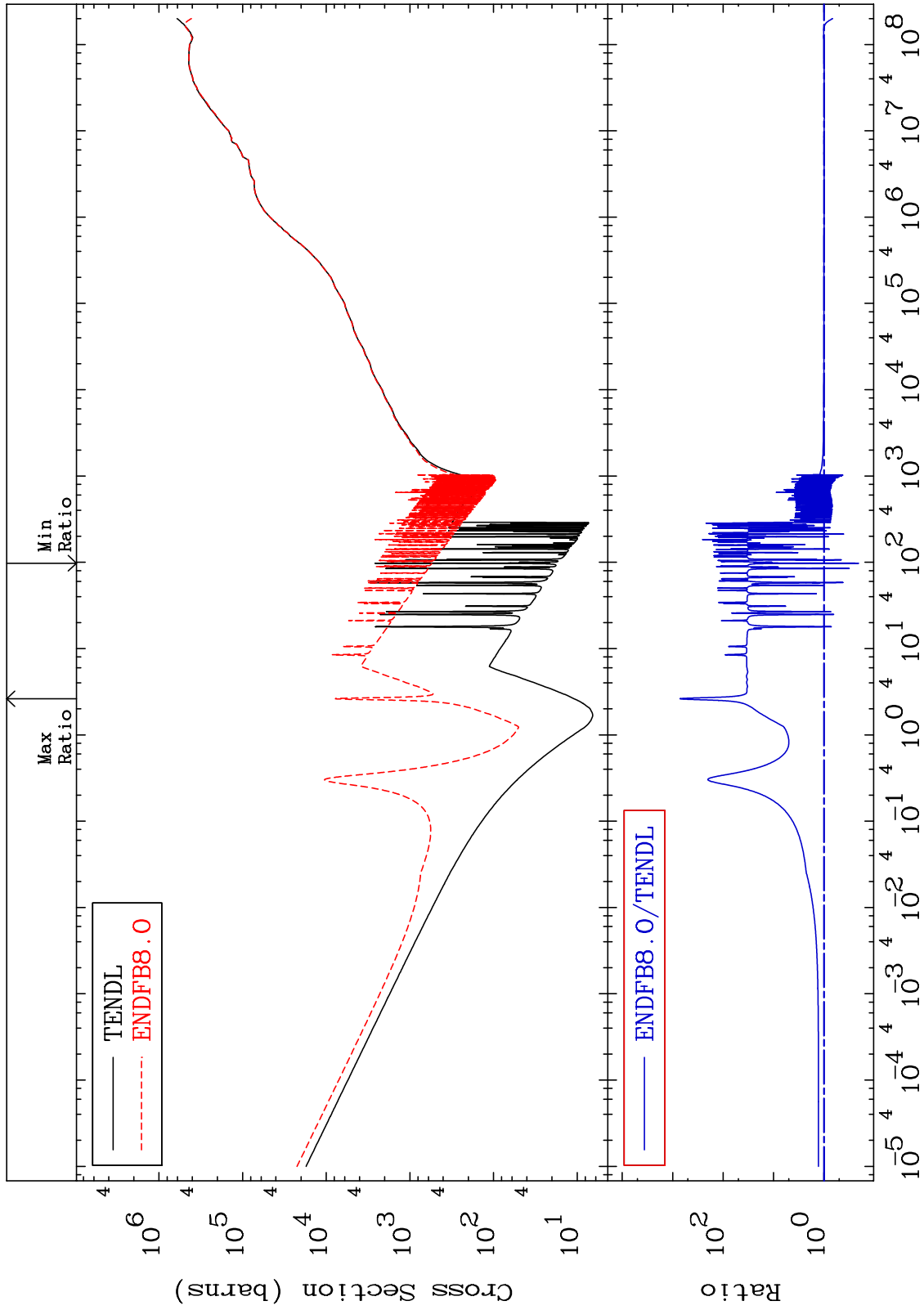
MAT 6143

Dpa total (eV-barns)

61-Pm-145

-79.20 To 9999. %

Cross Section



76

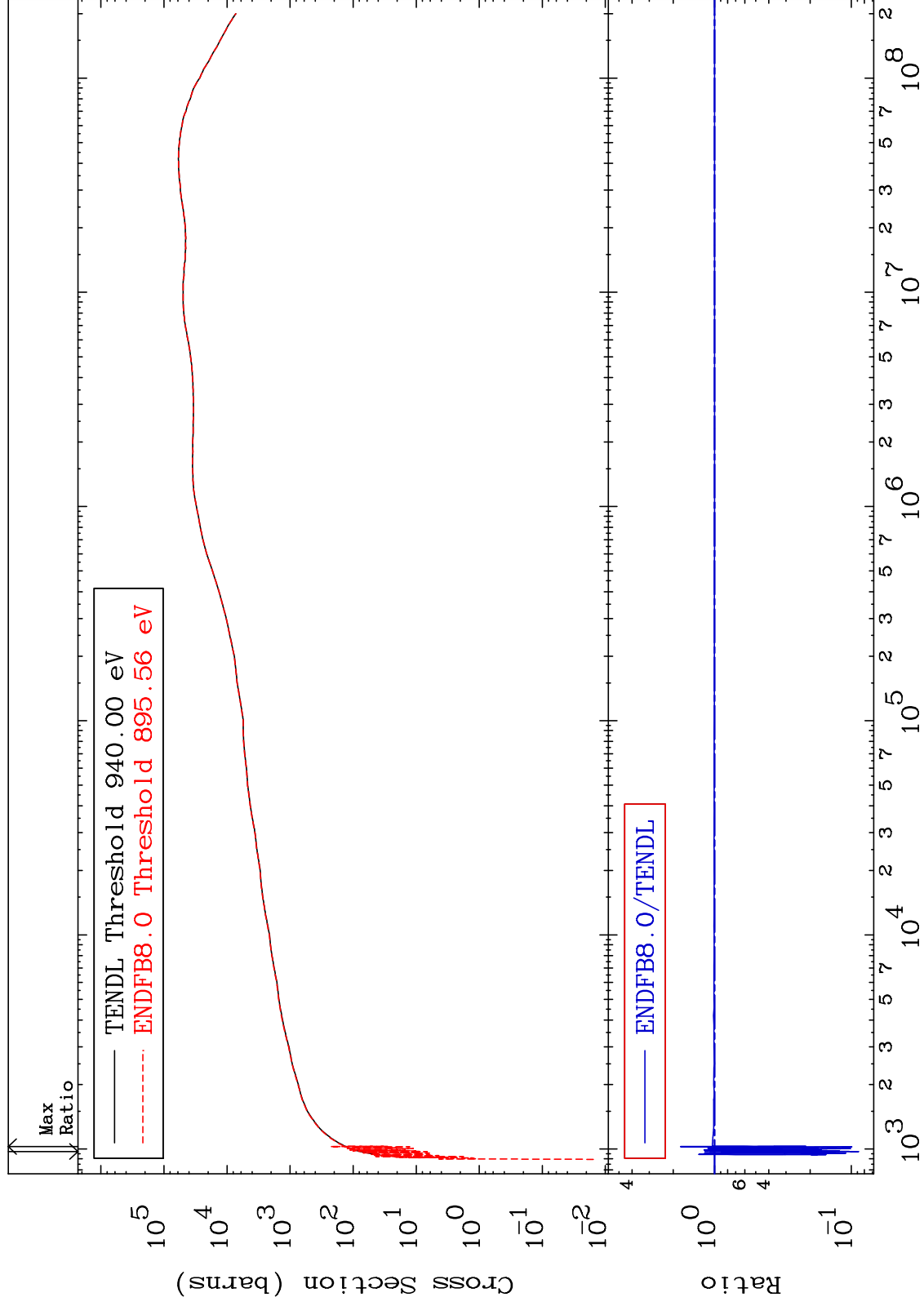
Incident Energy (eV)

61-Pm-145

MAT 6143

Dpa elastic (mt2)
Cross Section

61-Pm-145
-91.16 To 77.31 %



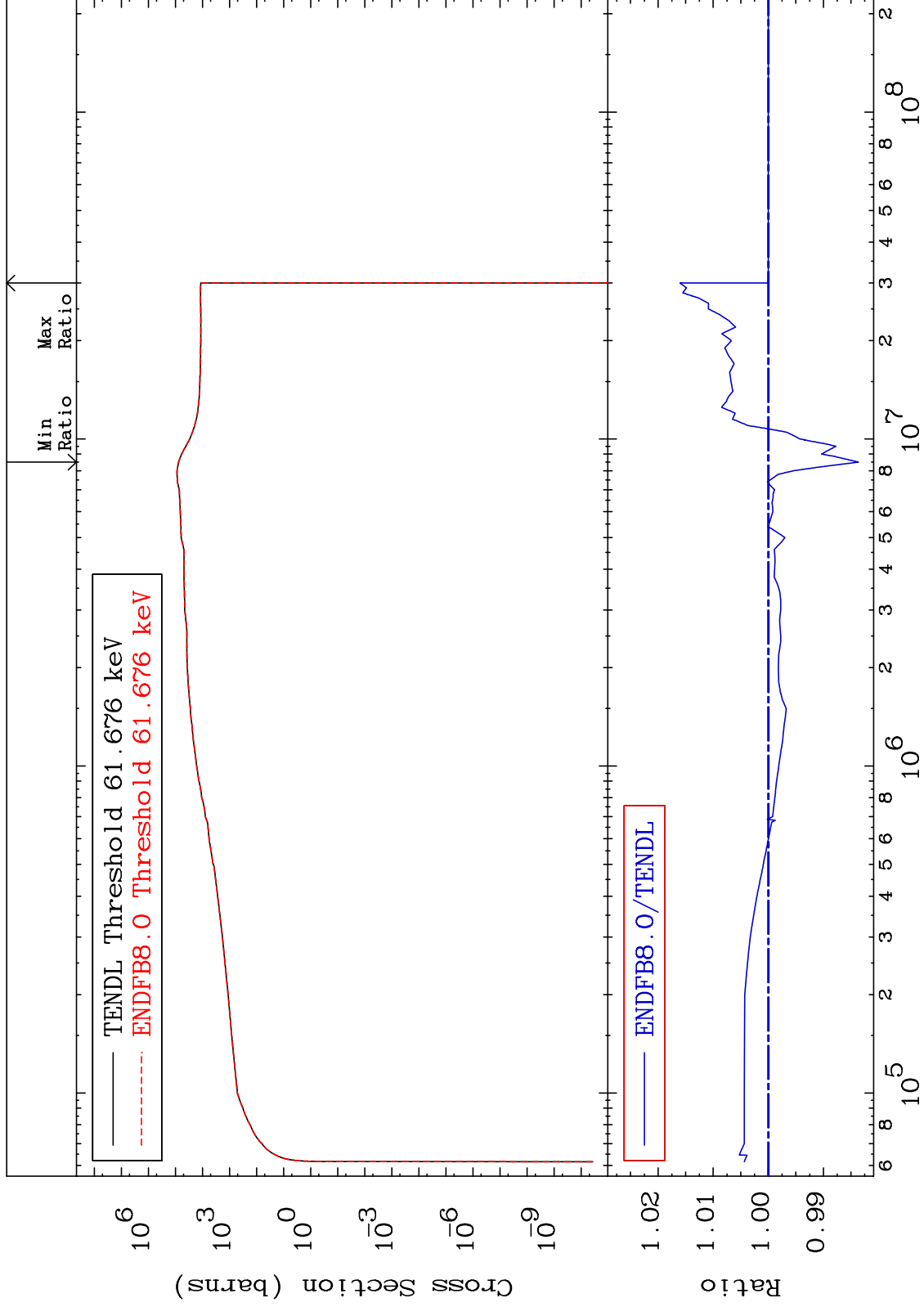
77

61-Pm-145

MAT 6143

Dpa inelastic (mt51-91)
Cross Section

61-Pm-145
-1.635 To 1.602 %



78

Incident Energy (eV)

61-Pm-145

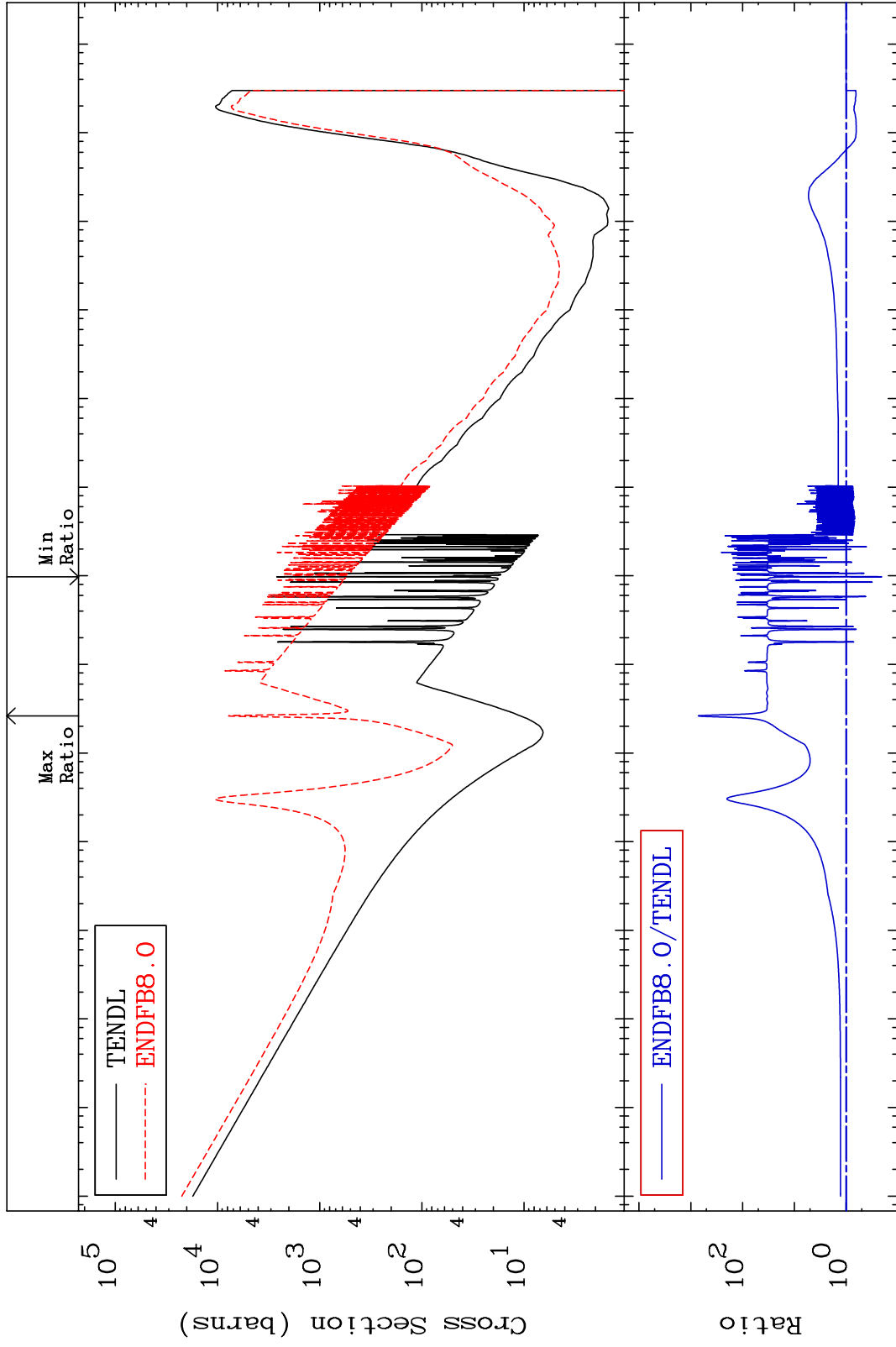
MAT 6143

Dpa disappearance (mt102 -120)

61-Pm-145

-79.20 To 9999. %

Cross Section



79

Incident Energy (eV)

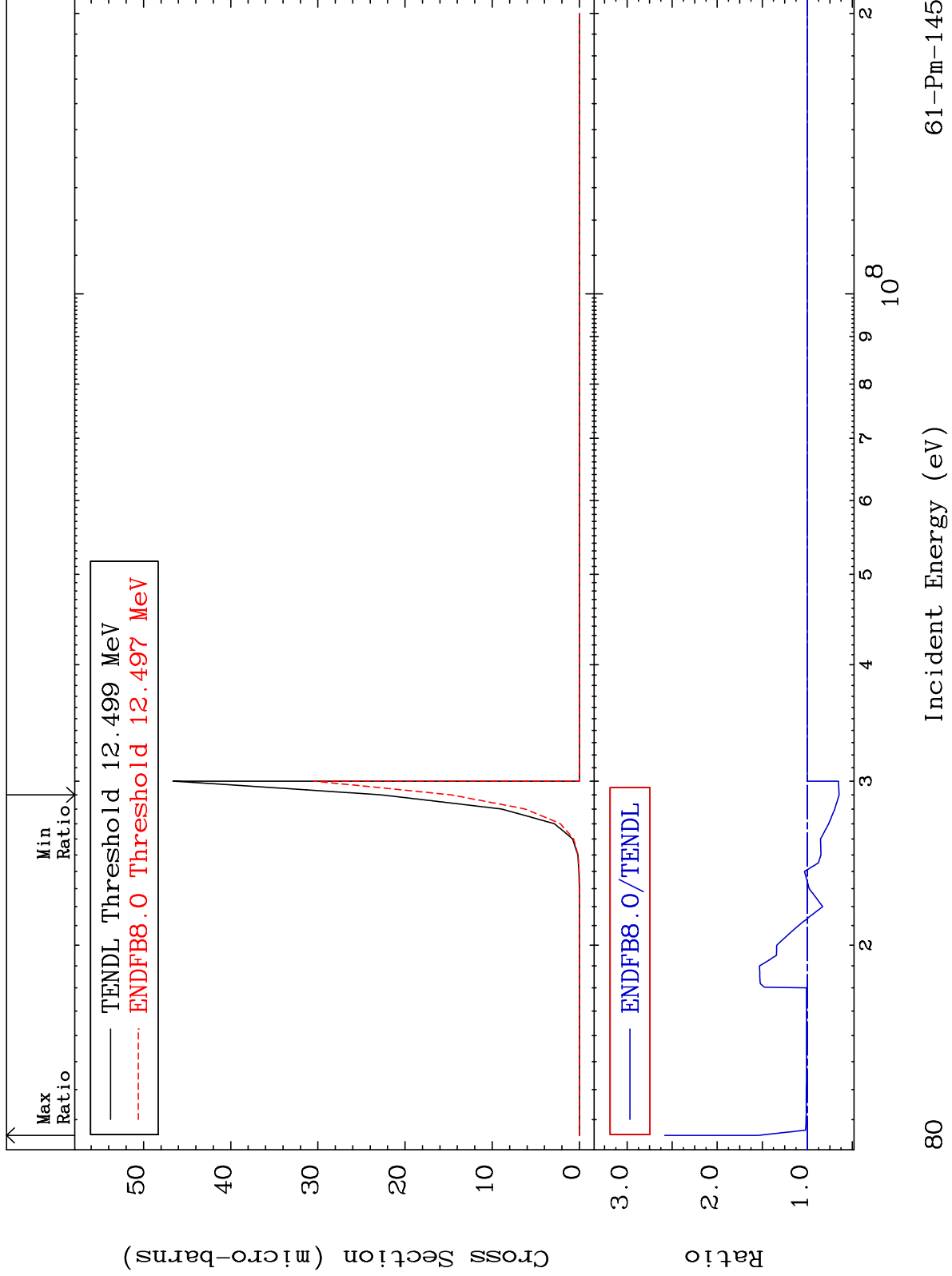
61-Pm-145

MAT 6143

(n, n') He-3:59-Pr-142g

61-Pm-145

Radionuclide Production Cross Section -35.31 To 158.2 %



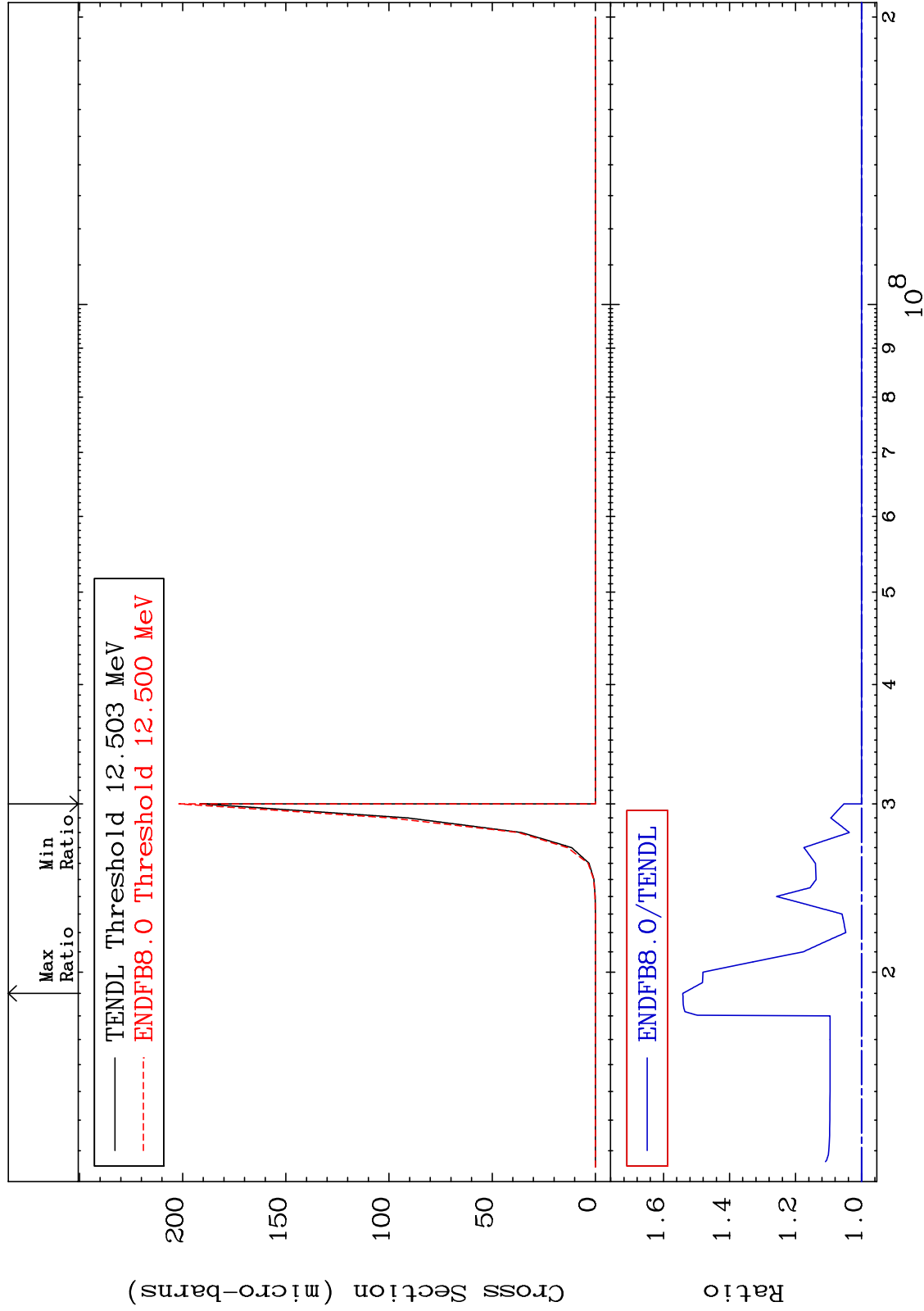
61-Pm-145

MAT 6143

(n, n') He-3:59-Pr-142m1

61-Pm-145

Radionuclide Production Cross Section 0.000 To 54.14 %



81

Incident Energy (eV)

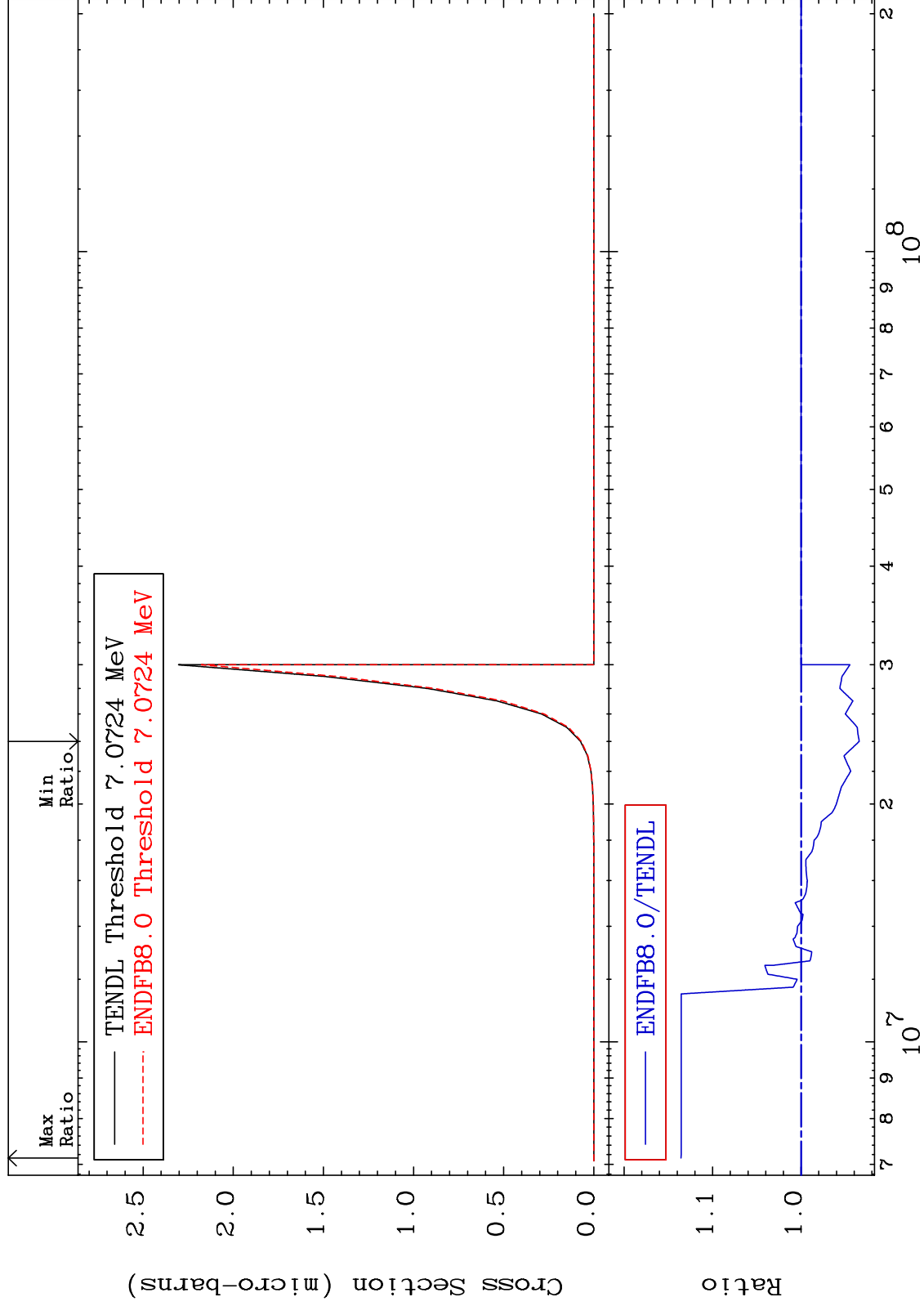
61-Pm-145

MAT 6143

(n,2p):59-Pr-144g

61-Pm-145

Radionuclide Production Cross Section -6.574 To 13.56 %



82

Incident Energy (eV)

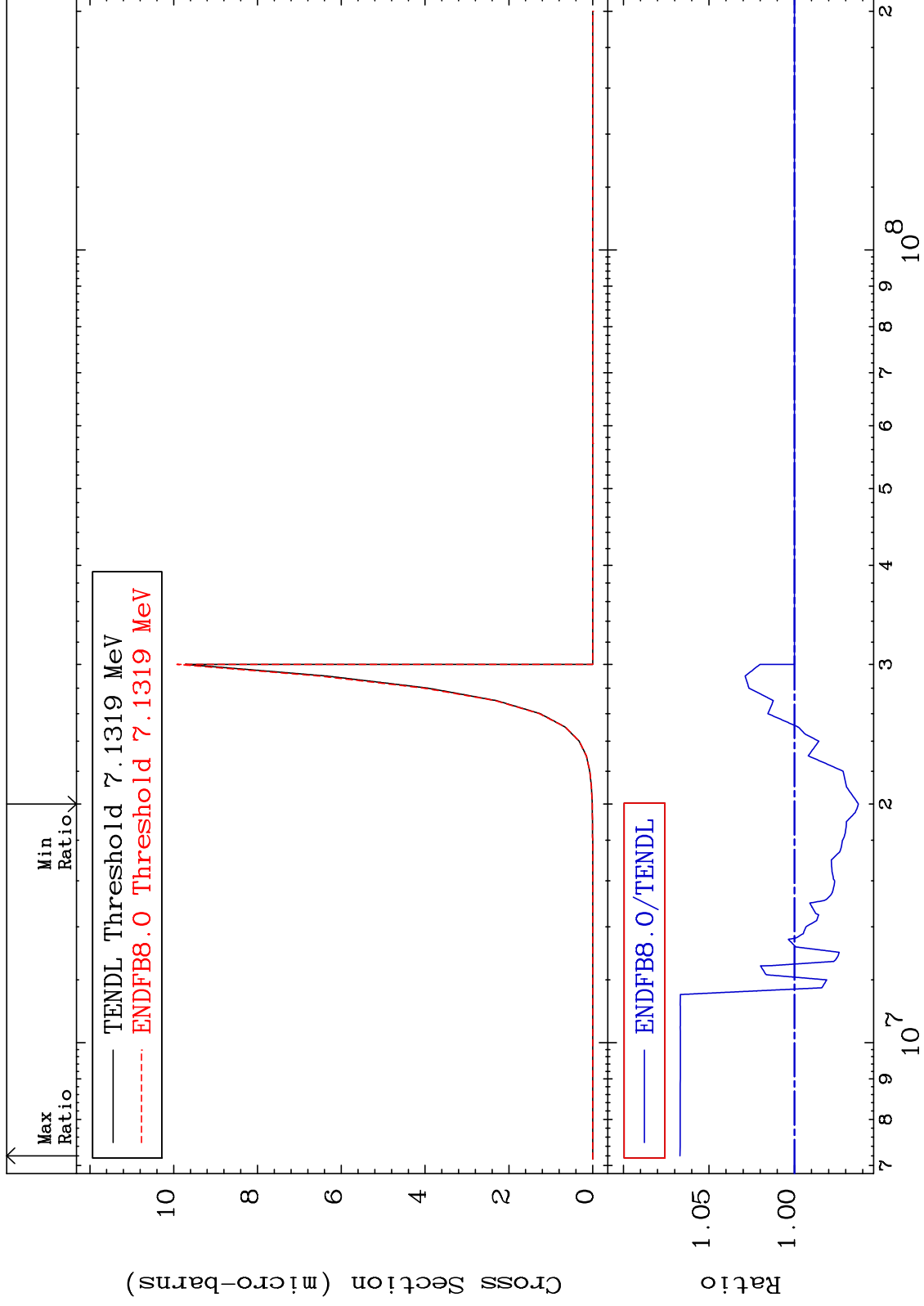
61-Pm-145

MAT 6143

(n,2p):59-Pr-144m1

61-Pm-145

Radionuclide Production Cross Section -3.742 To 6.688 %



83

61-Pm-145

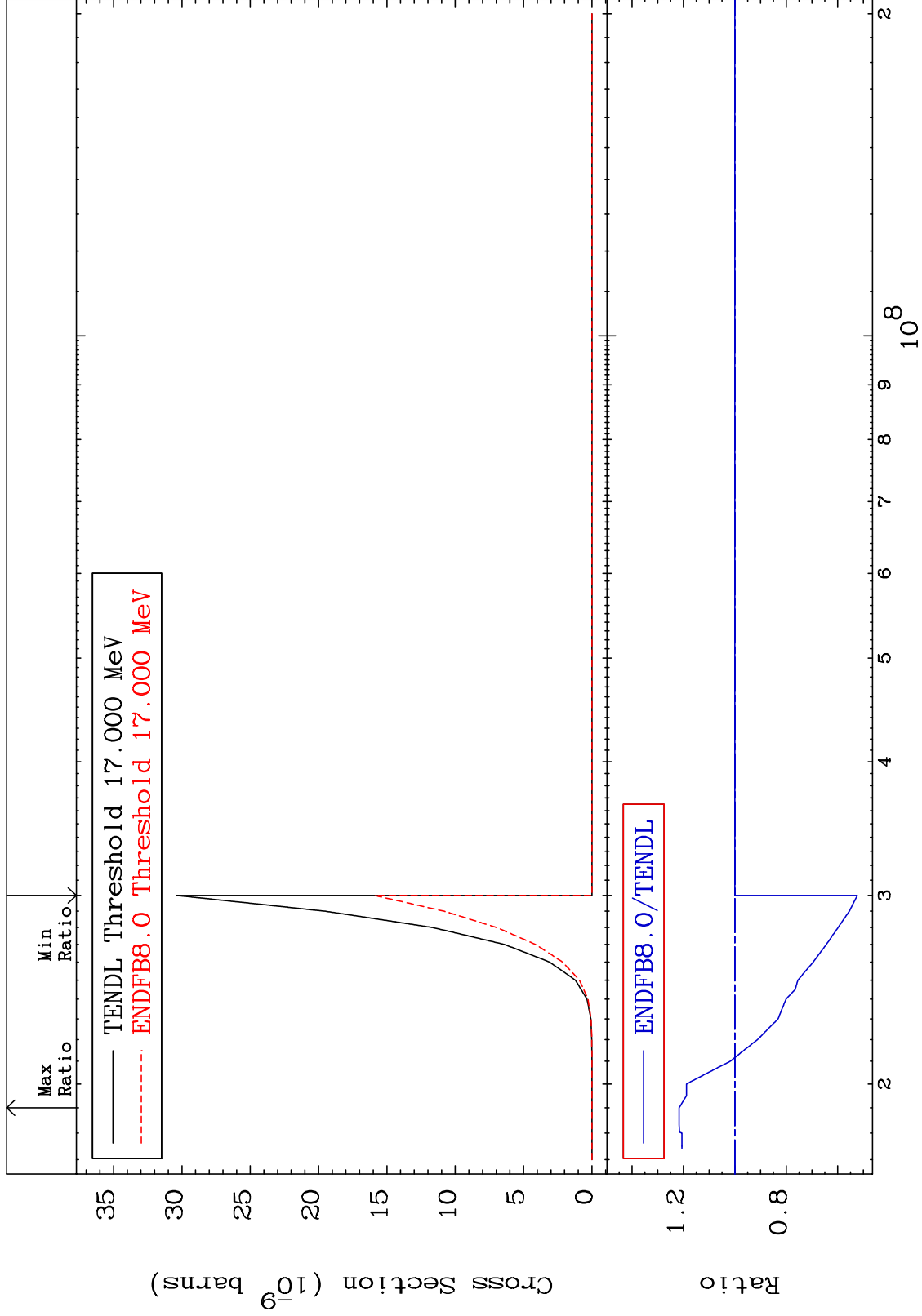
61-Pm-145

MAT 6143

(n, p) t:59-Pr-142g

61-Pm-145

Radionuclide Production Cross Section -47.66 To 21.69 %



MAT 6143

(n, p) t:59-Pr-142m1

61-Pm-145

Radionuclide Production Cross Section 0.000 To 67.22 %

