

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

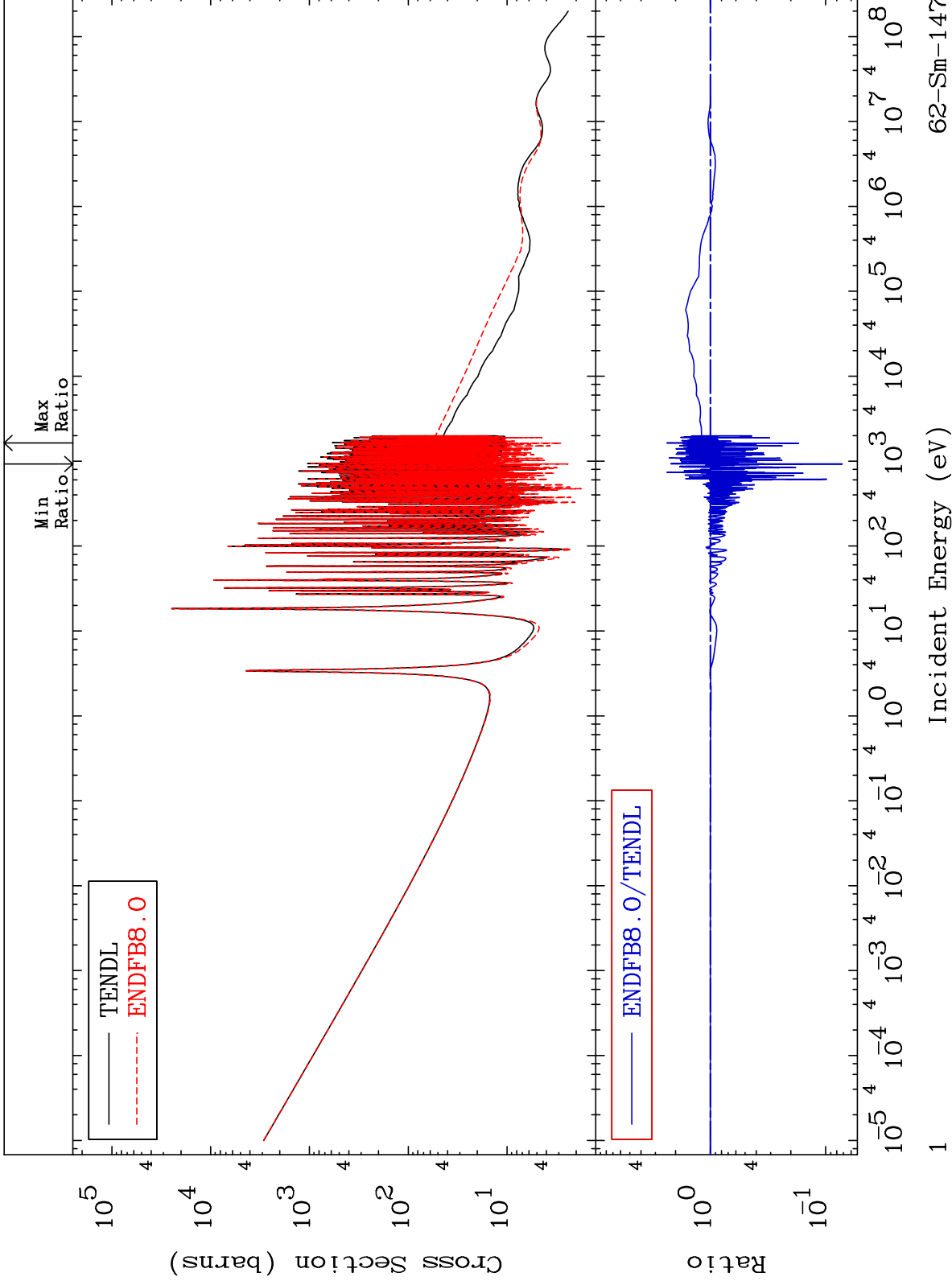
MAT 6234

Total

62-Sm-147

Cross Section

-92.86 To 138.4 %



62-Sm-147

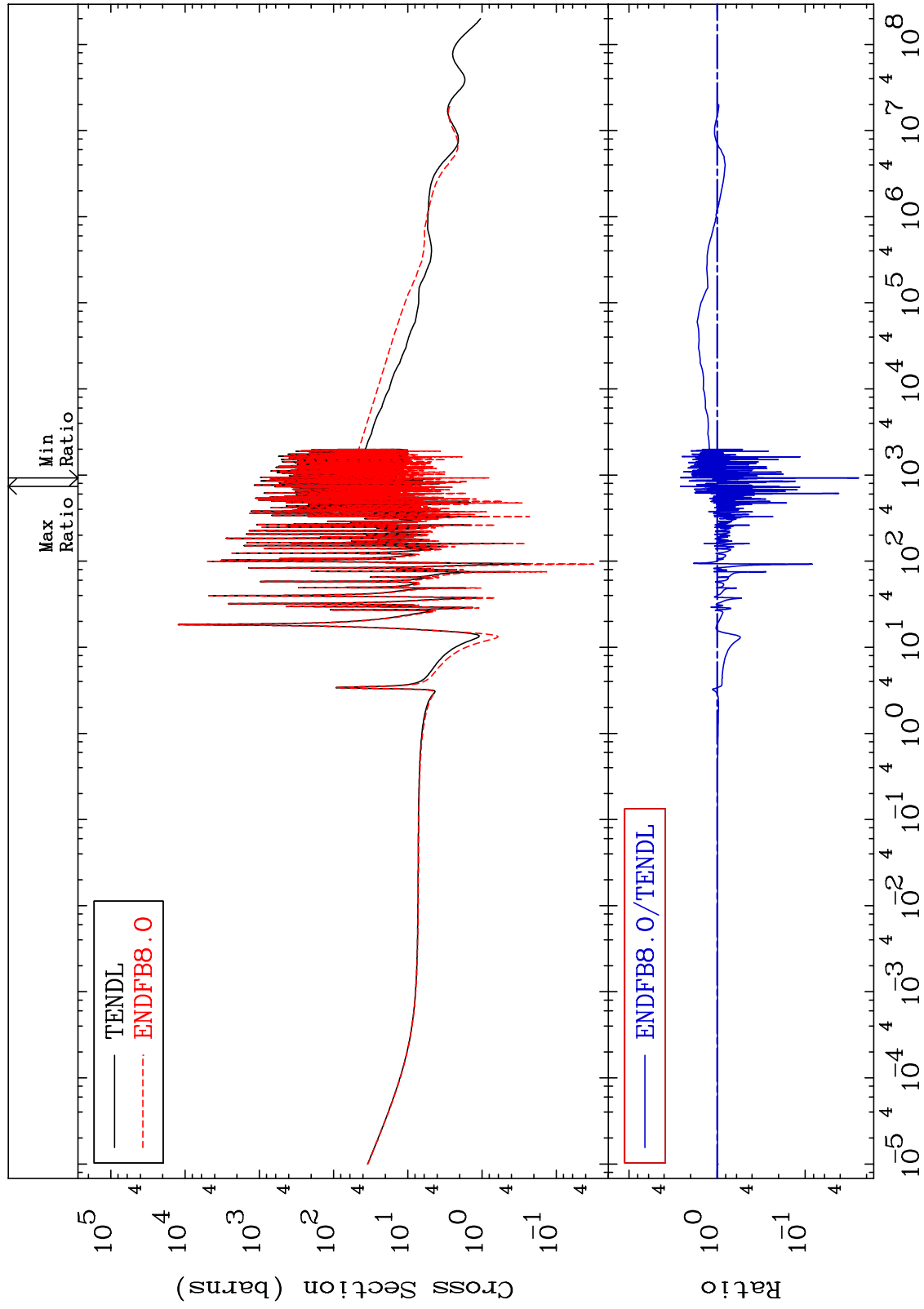
MAT 6234

Elastic

62-Sm-147

Cross Section

-97.53 To 160.8 %



Incident Energy (eV)

62-Sm-147

2

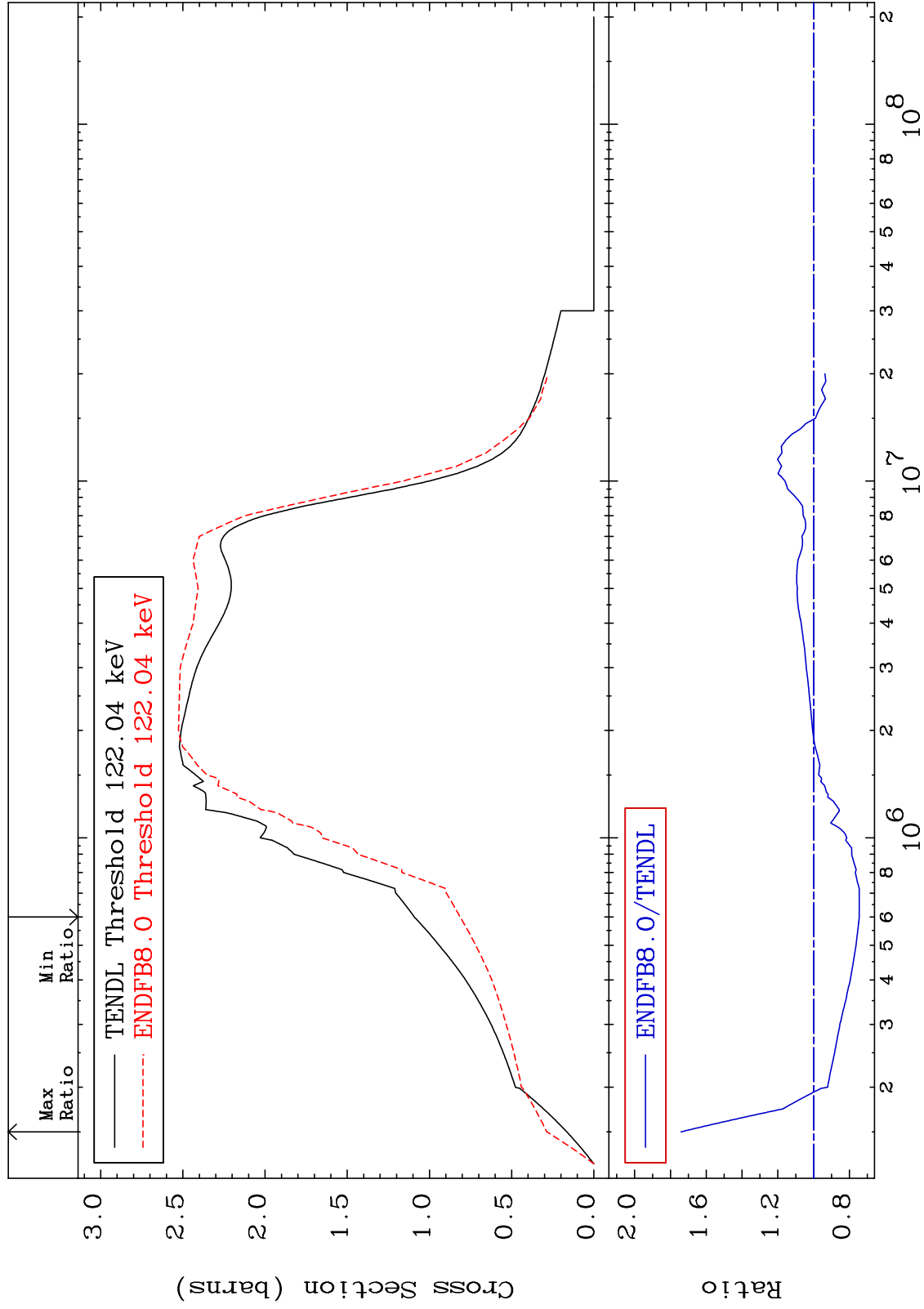
MAT 6234

Inelastic

62-Sm-147

Cross Section

-25.50 To 74.08 %



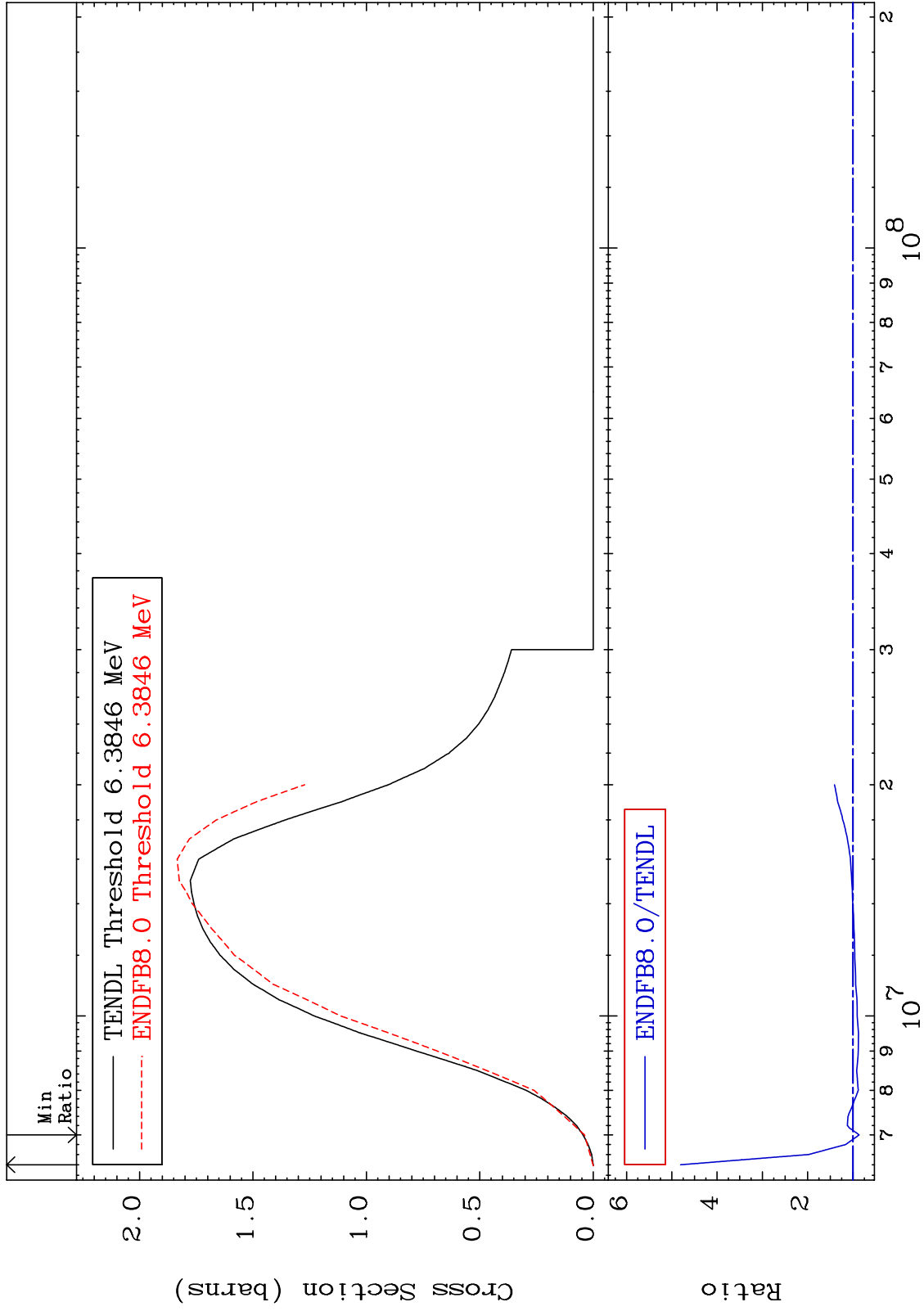
MAT 6234

(n, 2n)

62-Sm-147

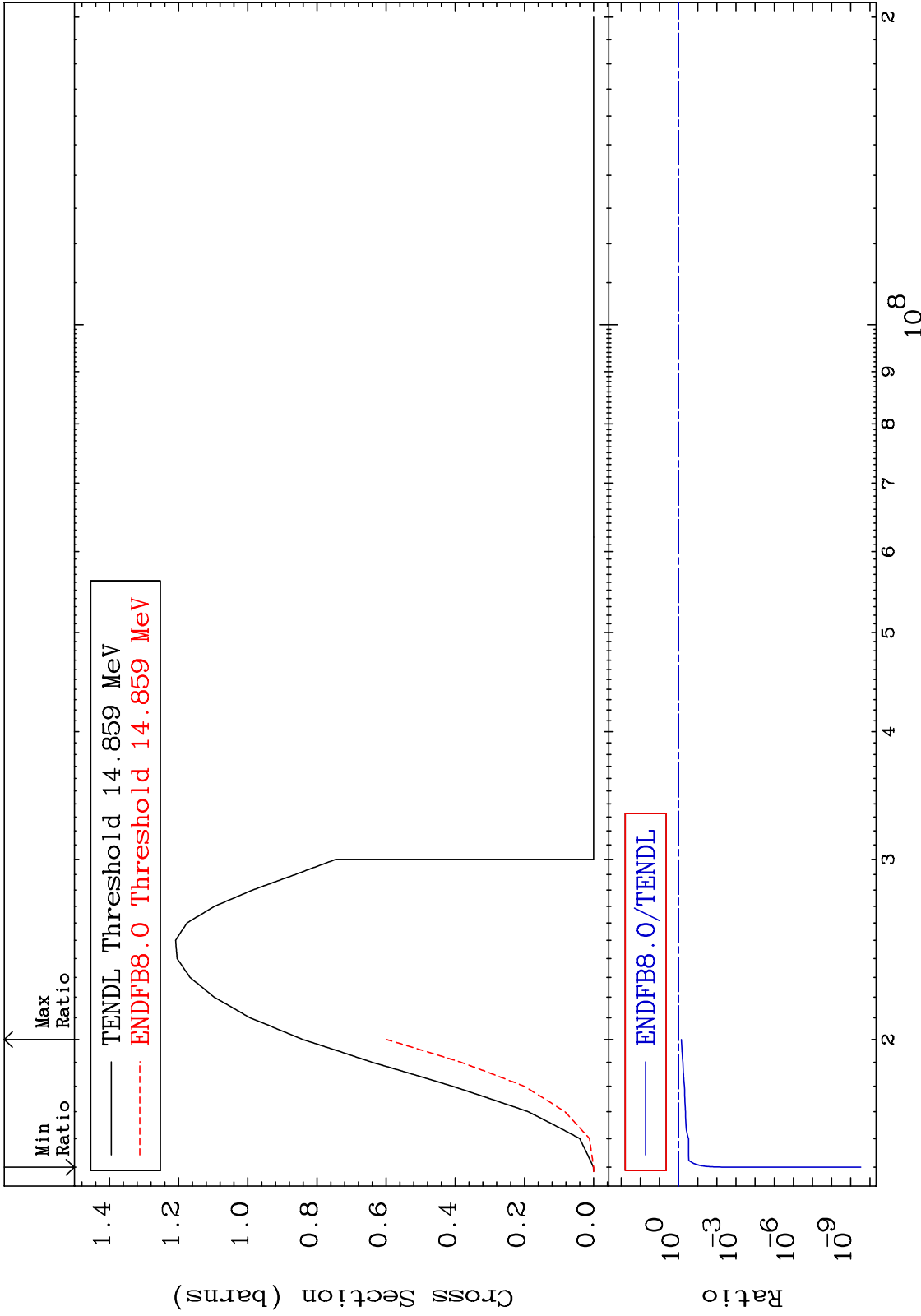
Cross Section

-13.76 To 380.6 %



Cross Section

-100.0 To -28.73%



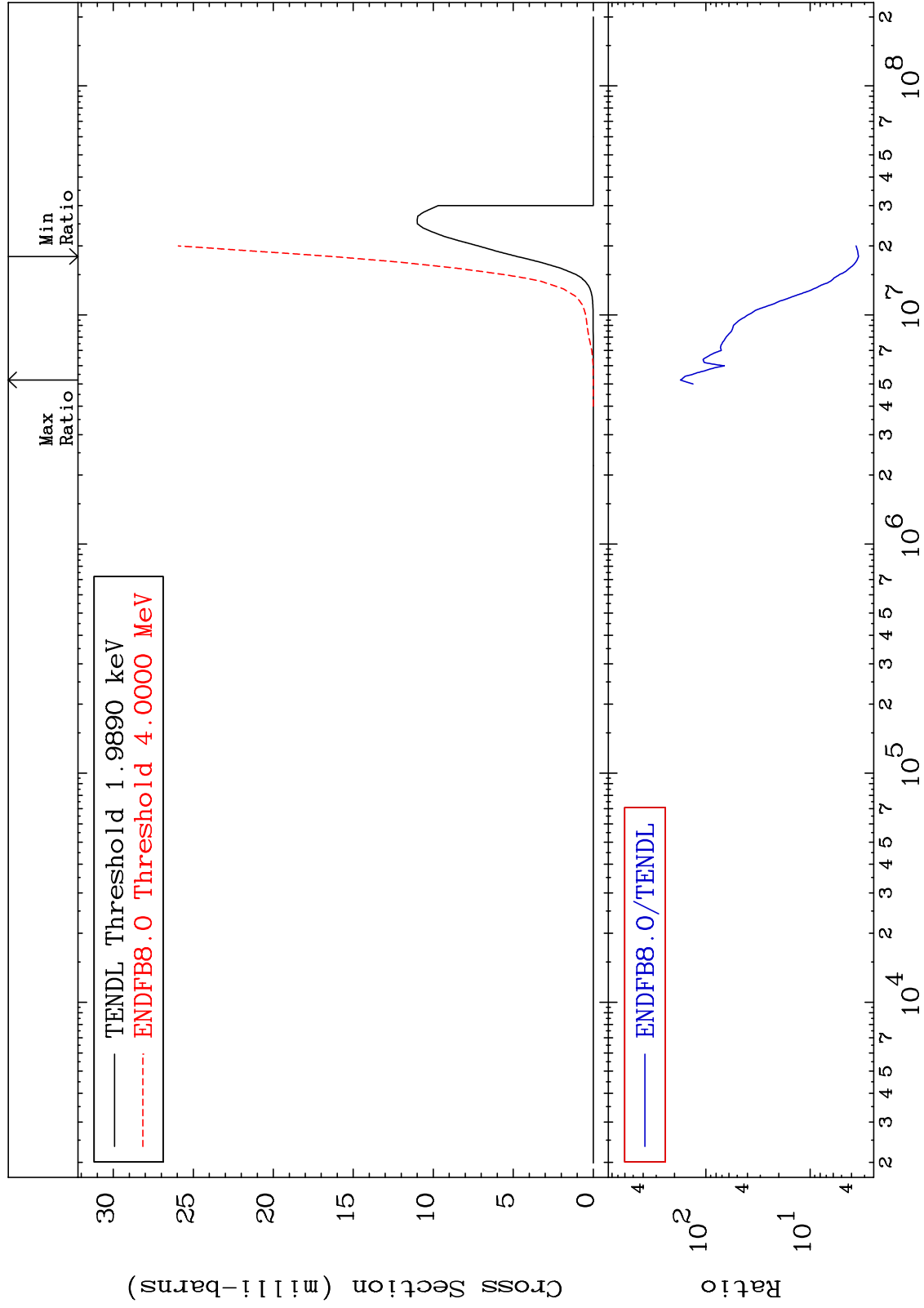
MAT 6234

(n,n') α

Cross Section

62-Sm-147

242.4 To 9999. %



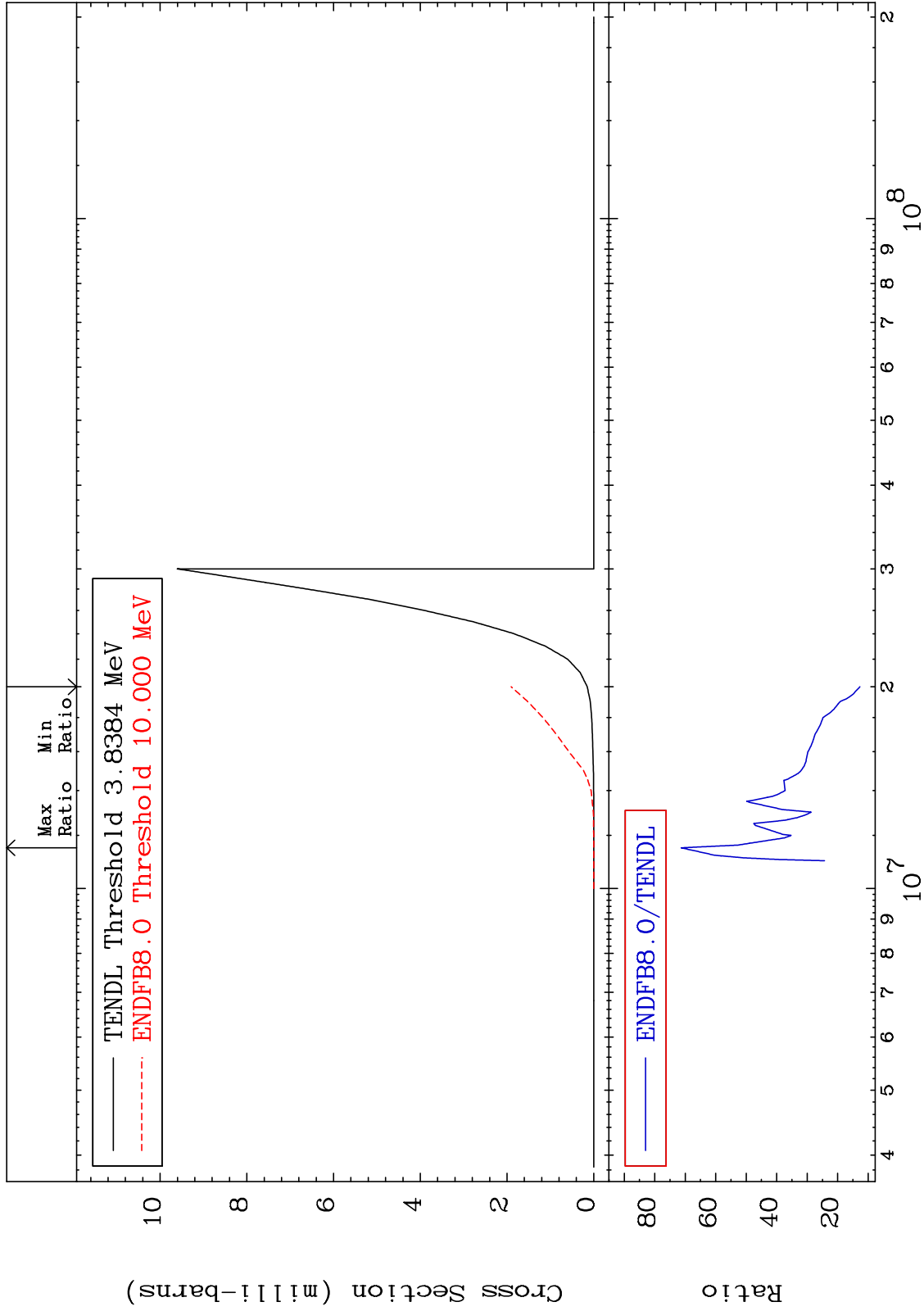
MAT 6234

(n,2n) α

62-Sm-147

1170. To 7031. %

Cross Section



7

Incident Energy (eV)

62-Sm-147

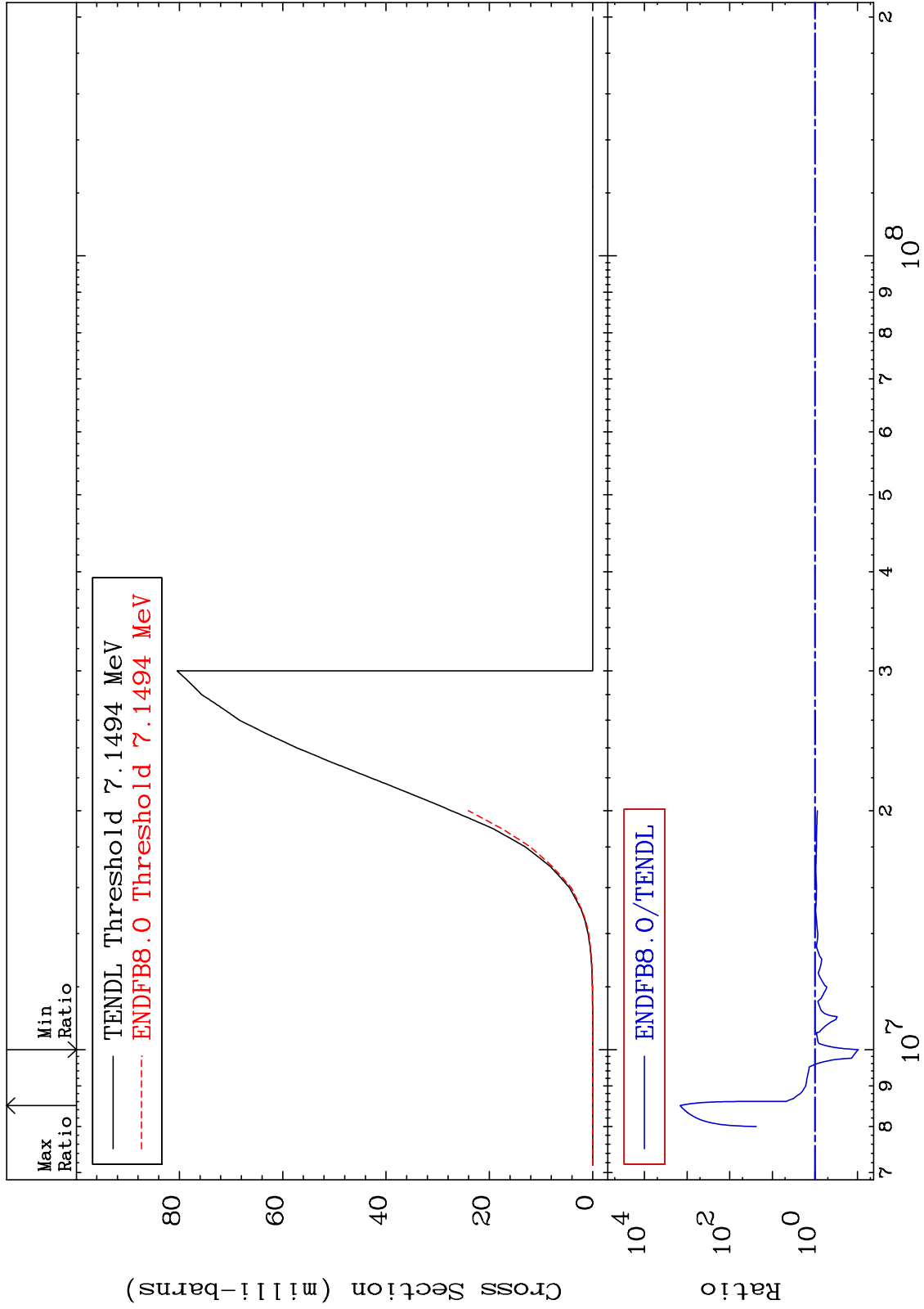
MAT 6234

(n,n') p

62-Sm-147

Cross Section

-90.44 To 9999. %



8

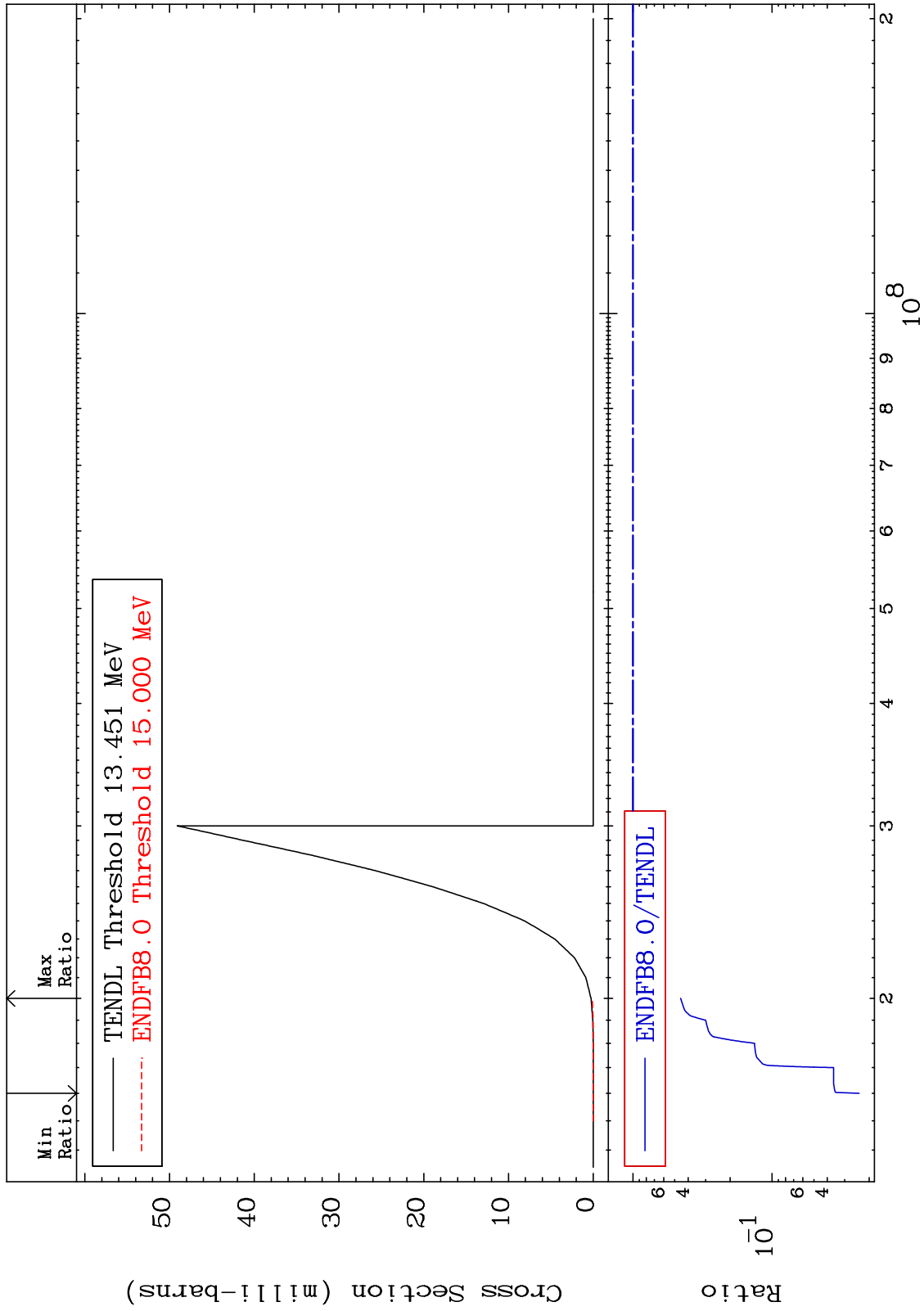
Incident Energy (eV)

62-Sm-147

MAT 6234

(n,2n) p
Cross Section

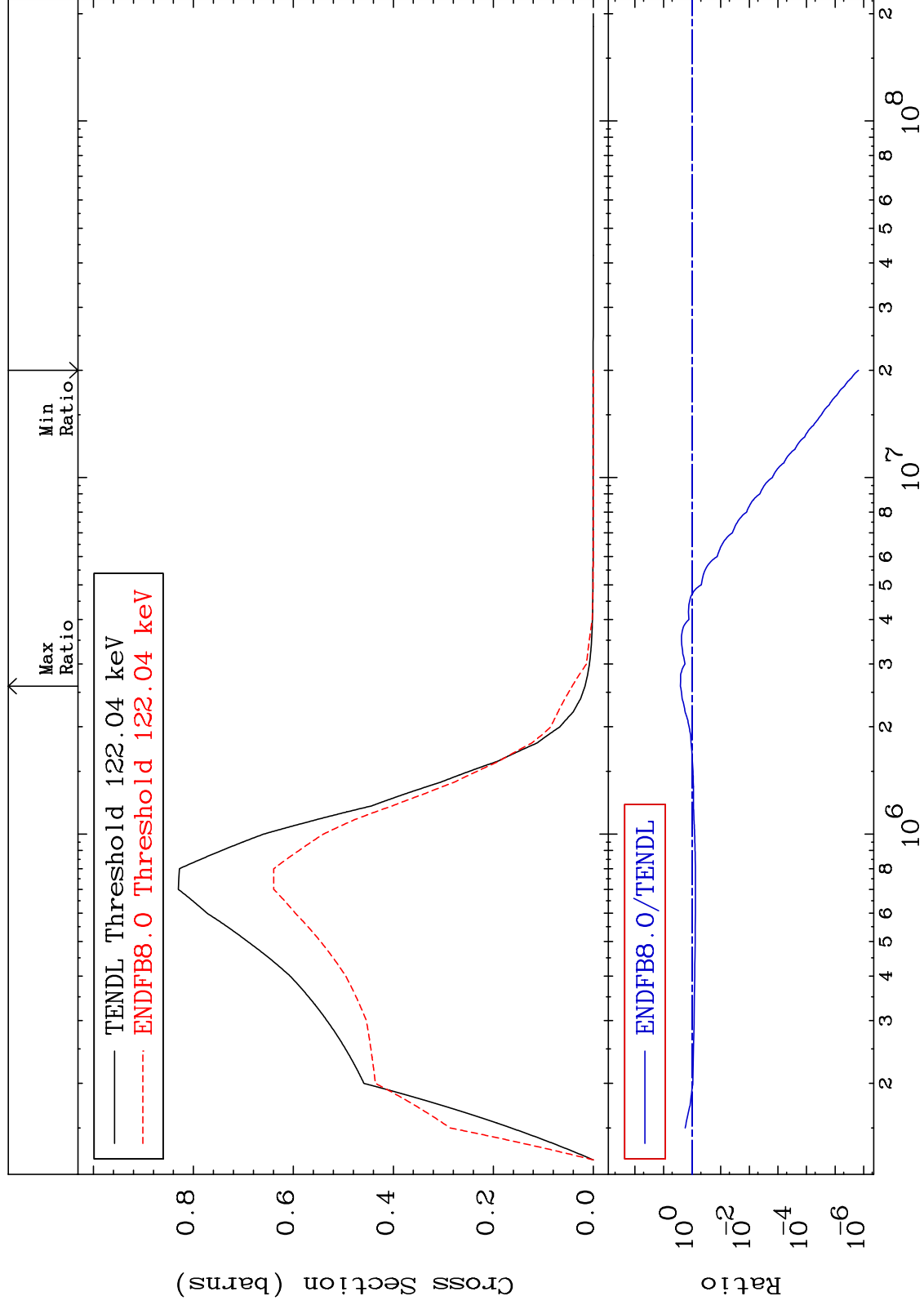
62-Sm-147
-97.64 To -54.63%



MAT 6234

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

62-Sm-147
-100.0 To 156.7 %



10

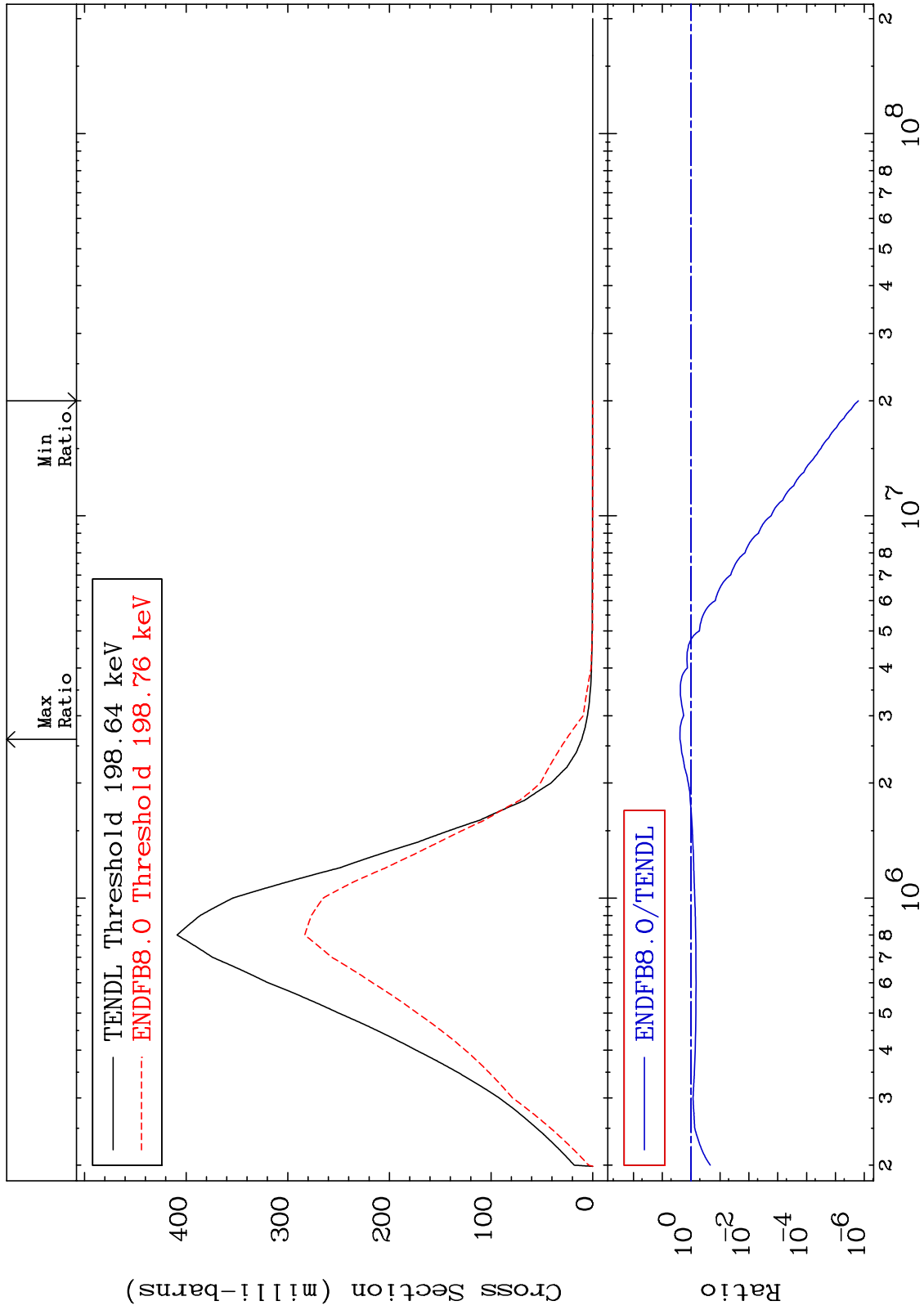
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To 142.8 %



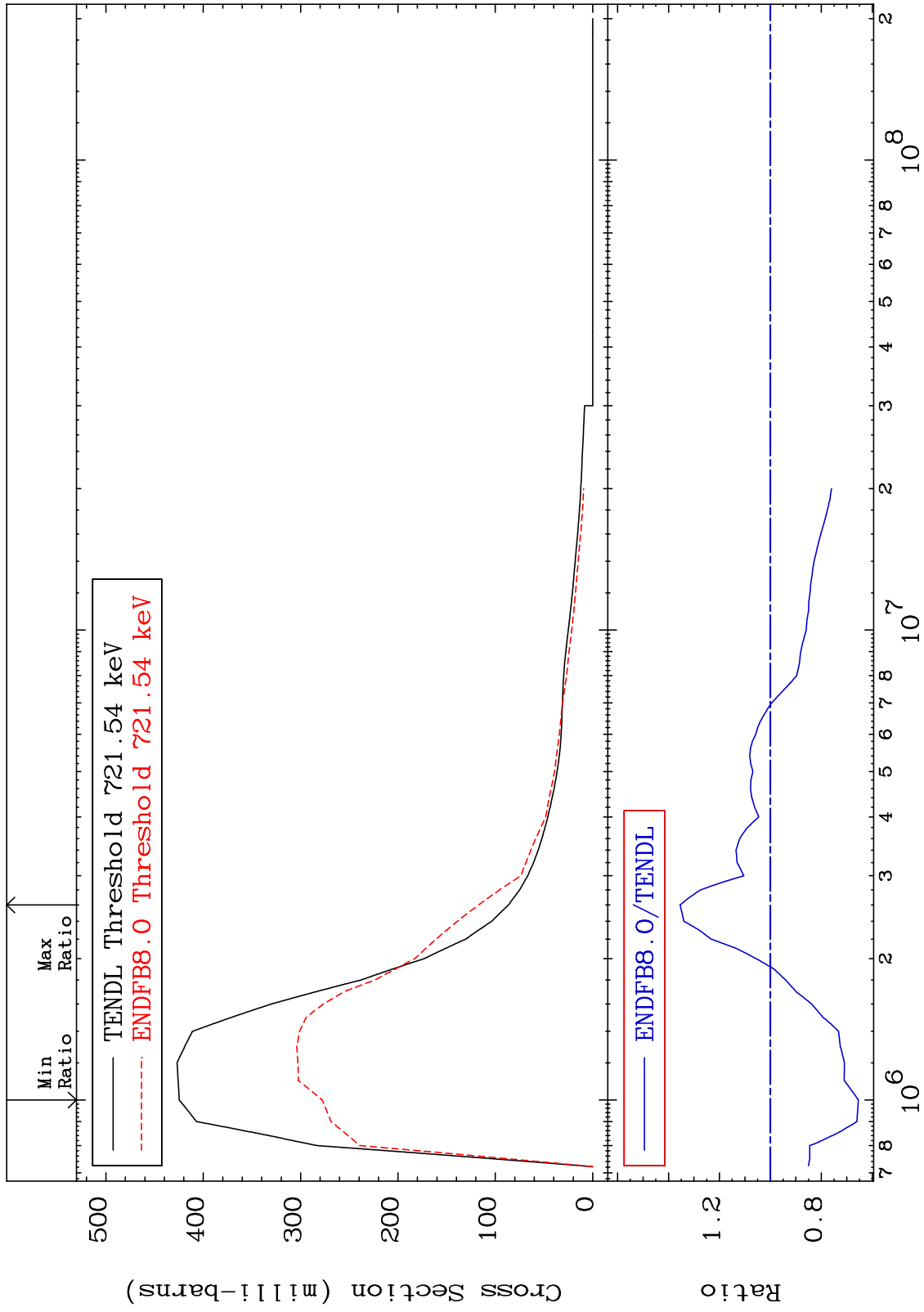
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-34.57 To 35.48 %



12

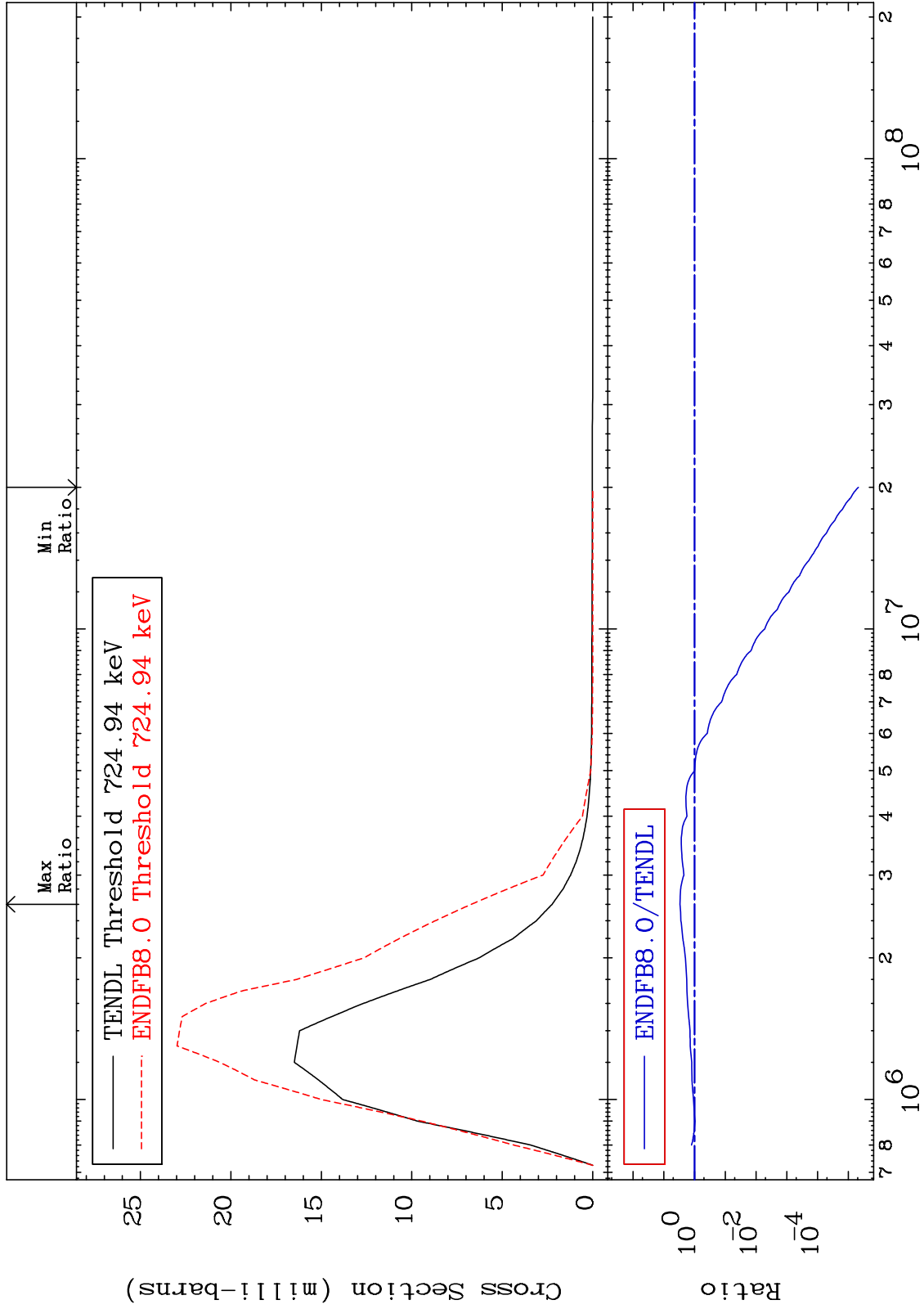
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To 199.3 %



13

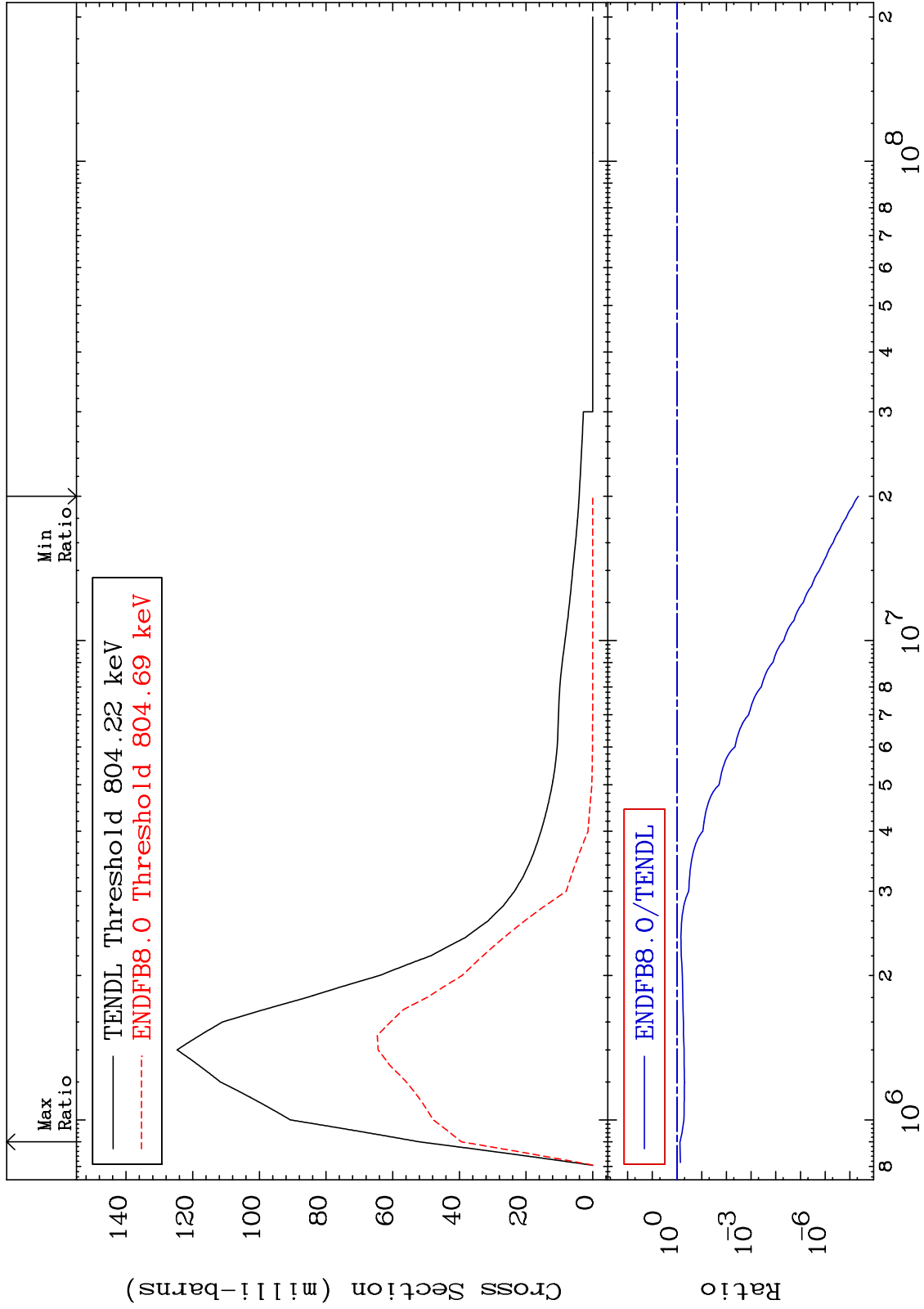
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To -24.30%



14

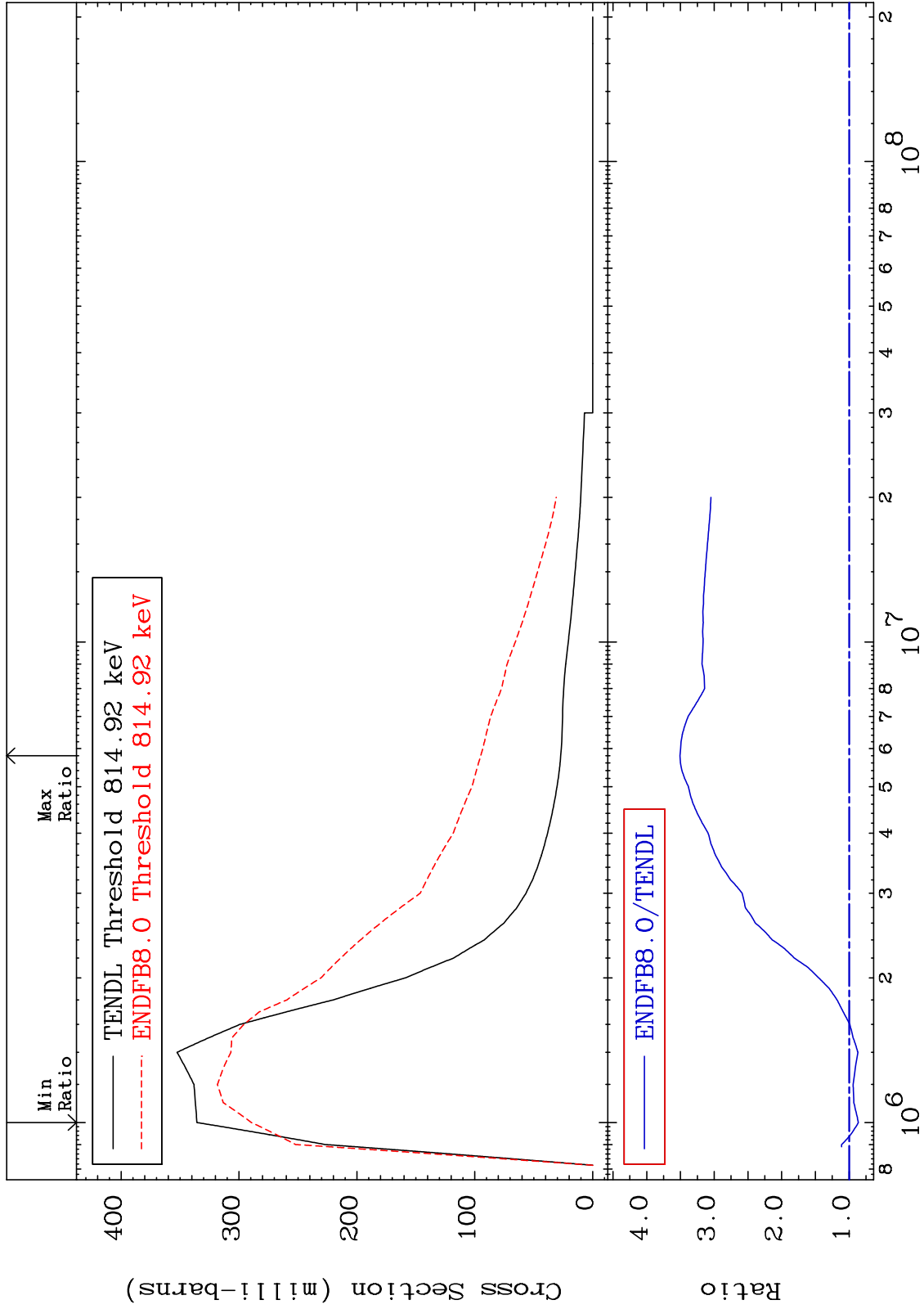
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-13.78 To 250.7 %

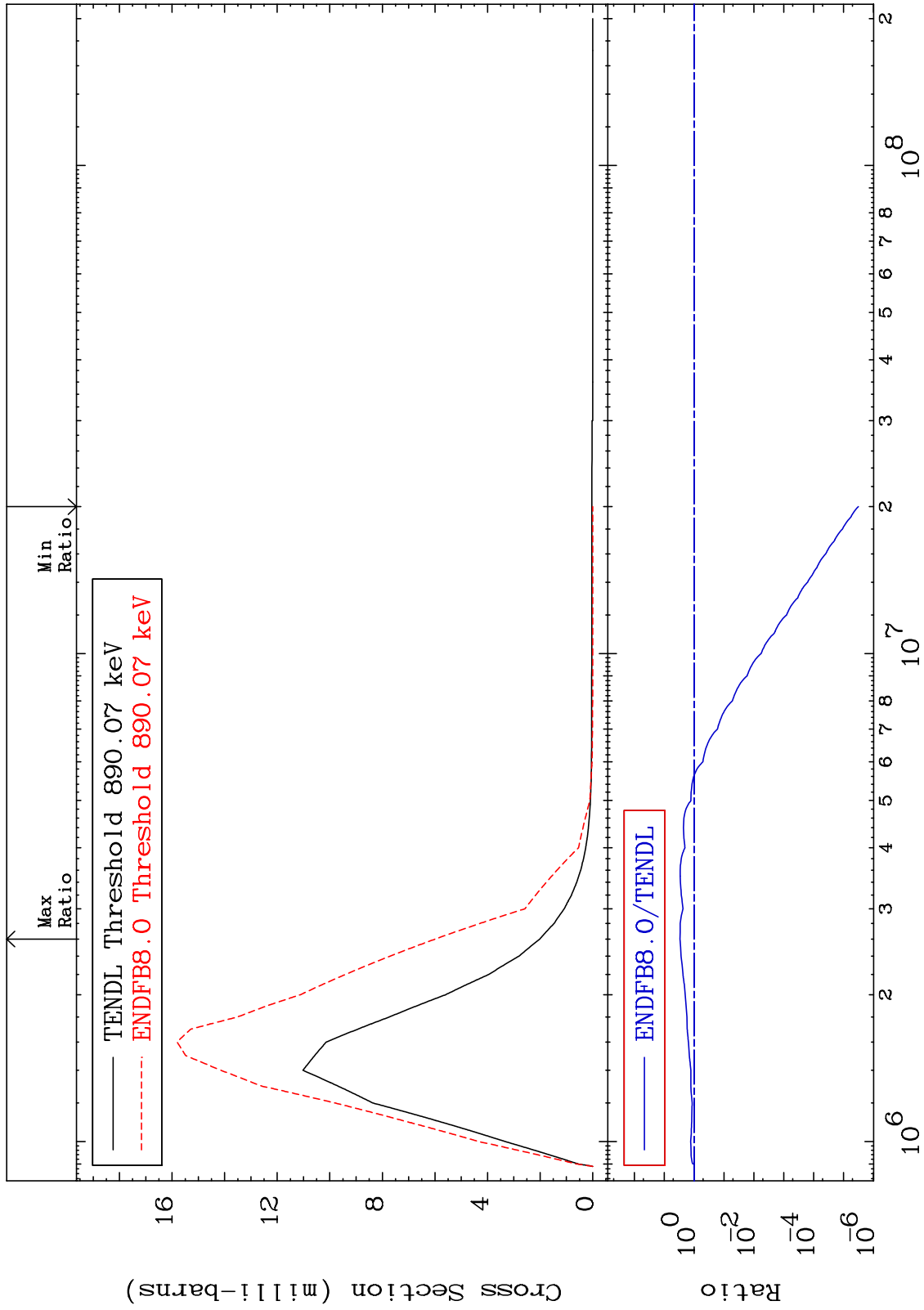


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Incident Energy (eV)

62-Sm-147

MAT 6234 MT= 57 (n, n') Level
Cross Section 62-Sm-147
-100.0 To 197.6 %

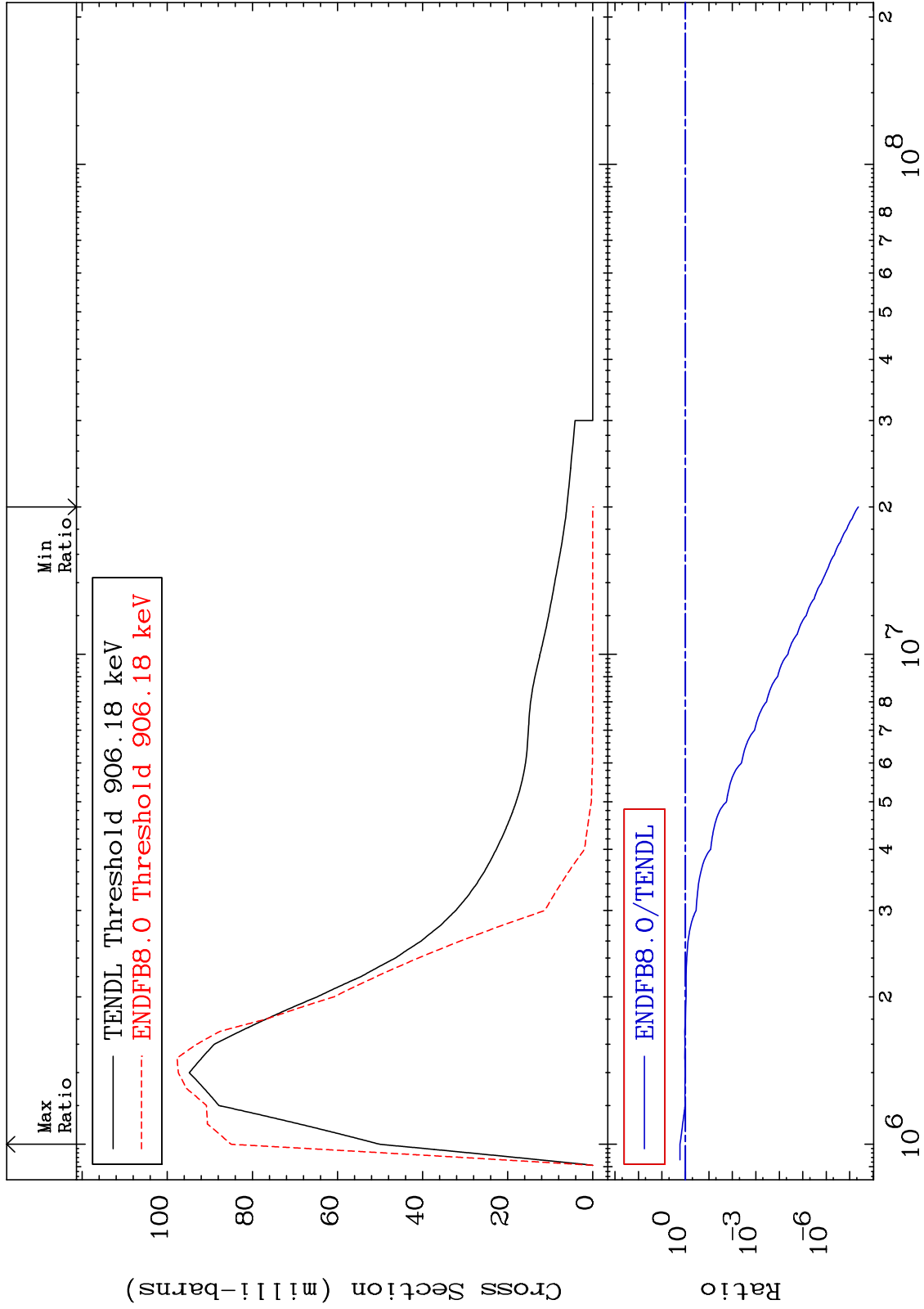


16 Incident Energy (eV) 62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To 69.84 %



17

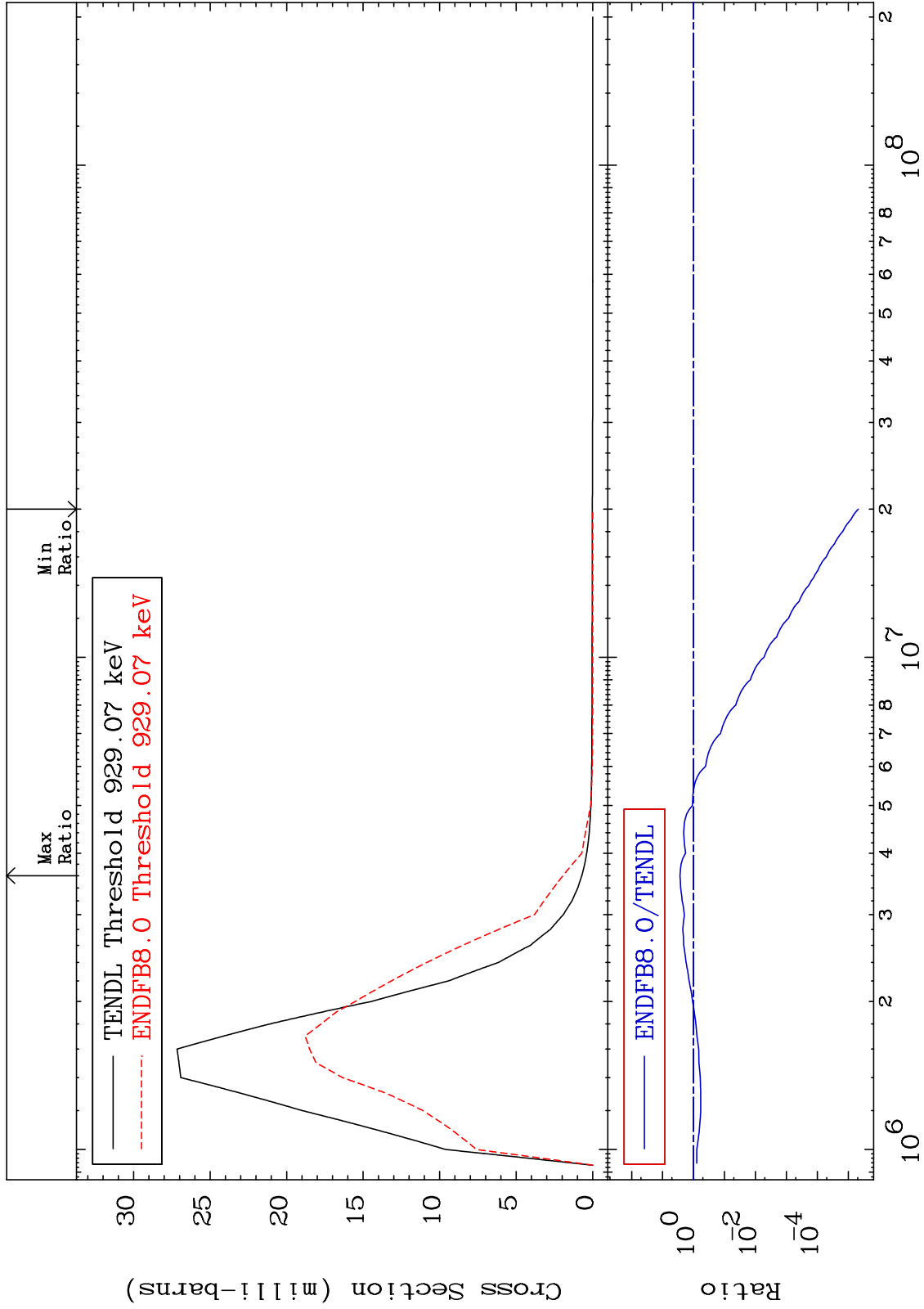
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To 173.7 %



— TENDL Threshold 929.07 keV
- - - ENDFB8.0 Threshold 929.07 keV

— ENDFB8.0/TENDL

Incident Energy (eV)

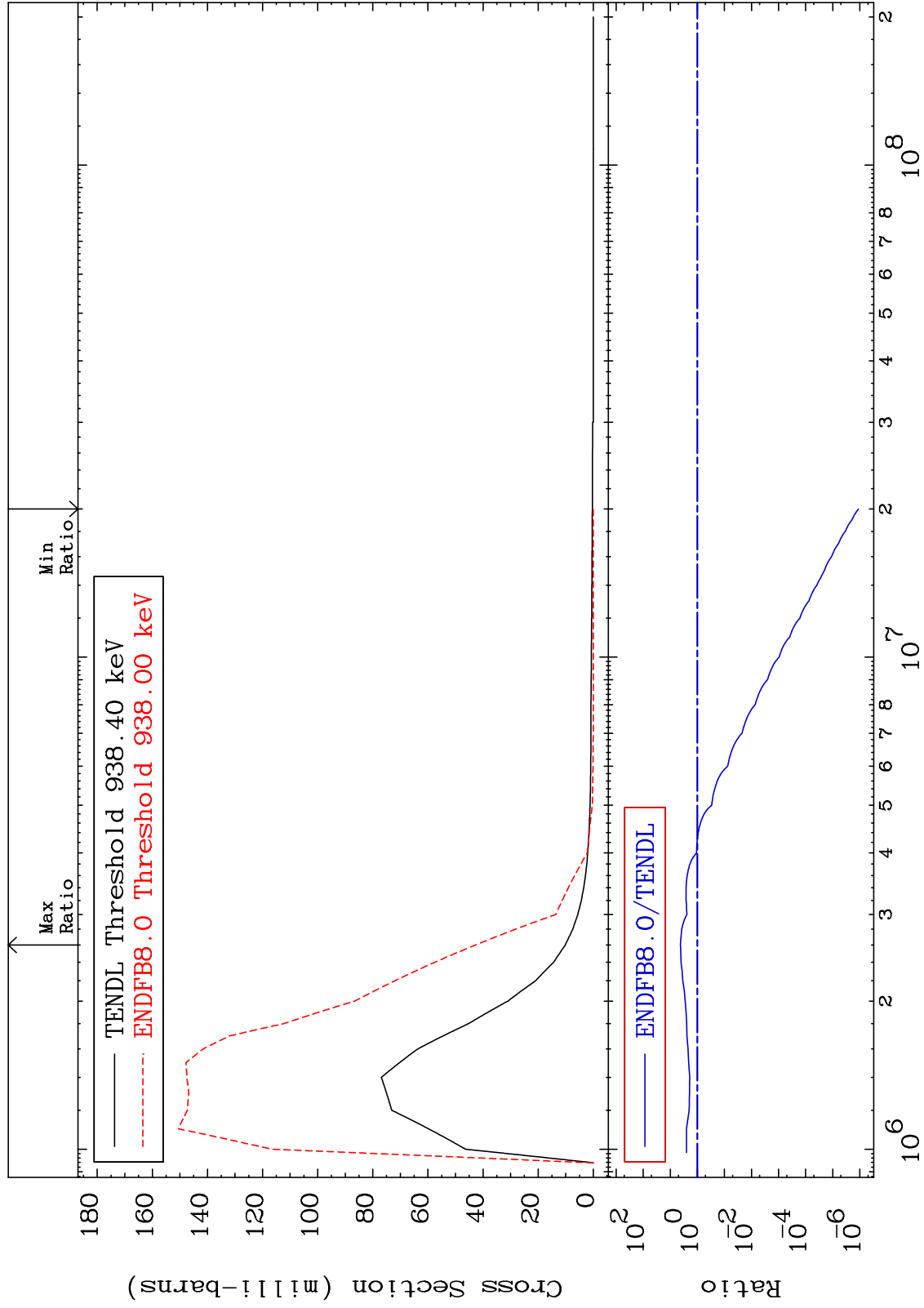
62-Sm-147

18

MAT 6234

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

62-Sm-147
-100.0 To 320.6 %



Incident Energy (eV)

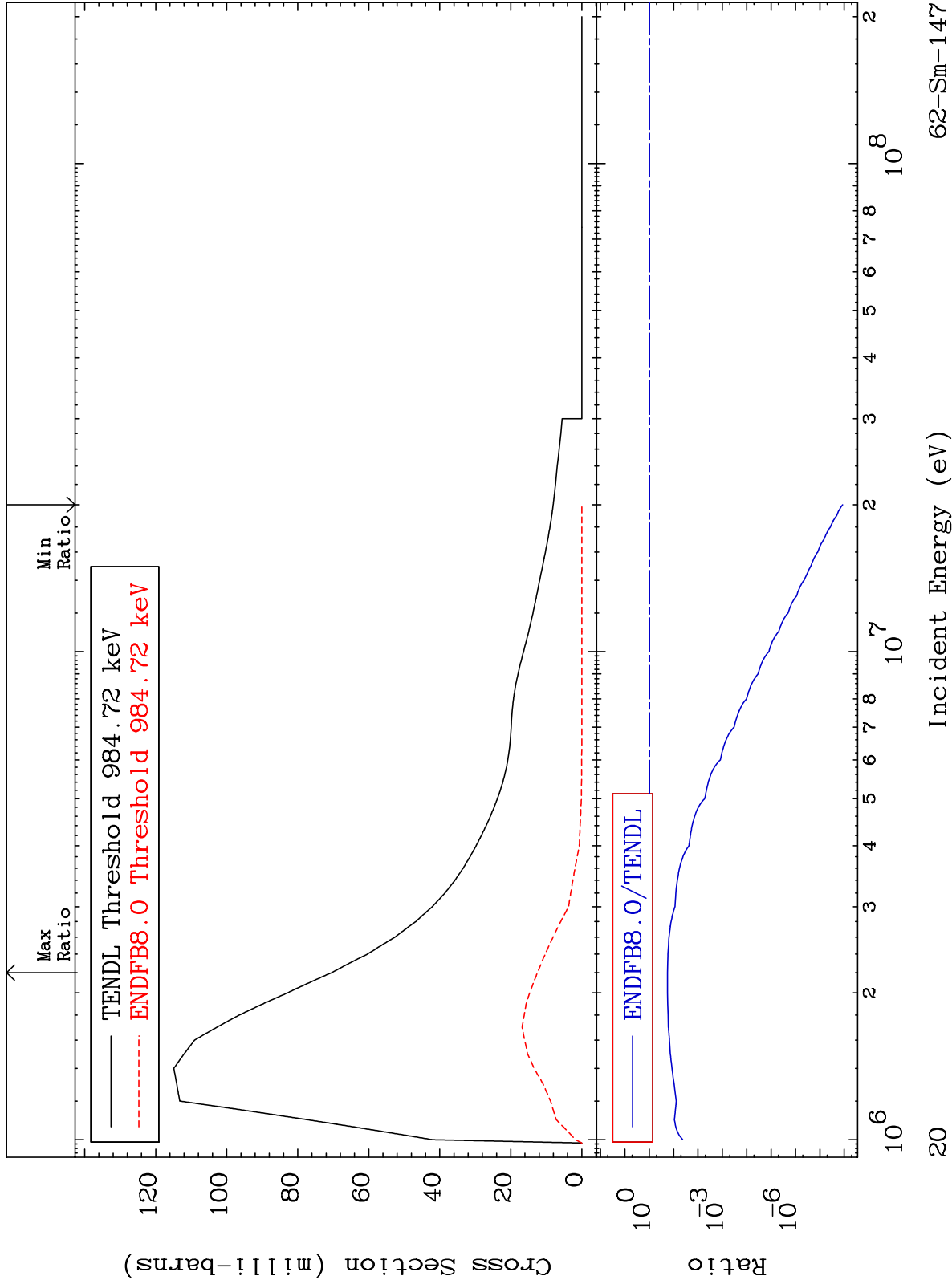
62-Sm-147

19

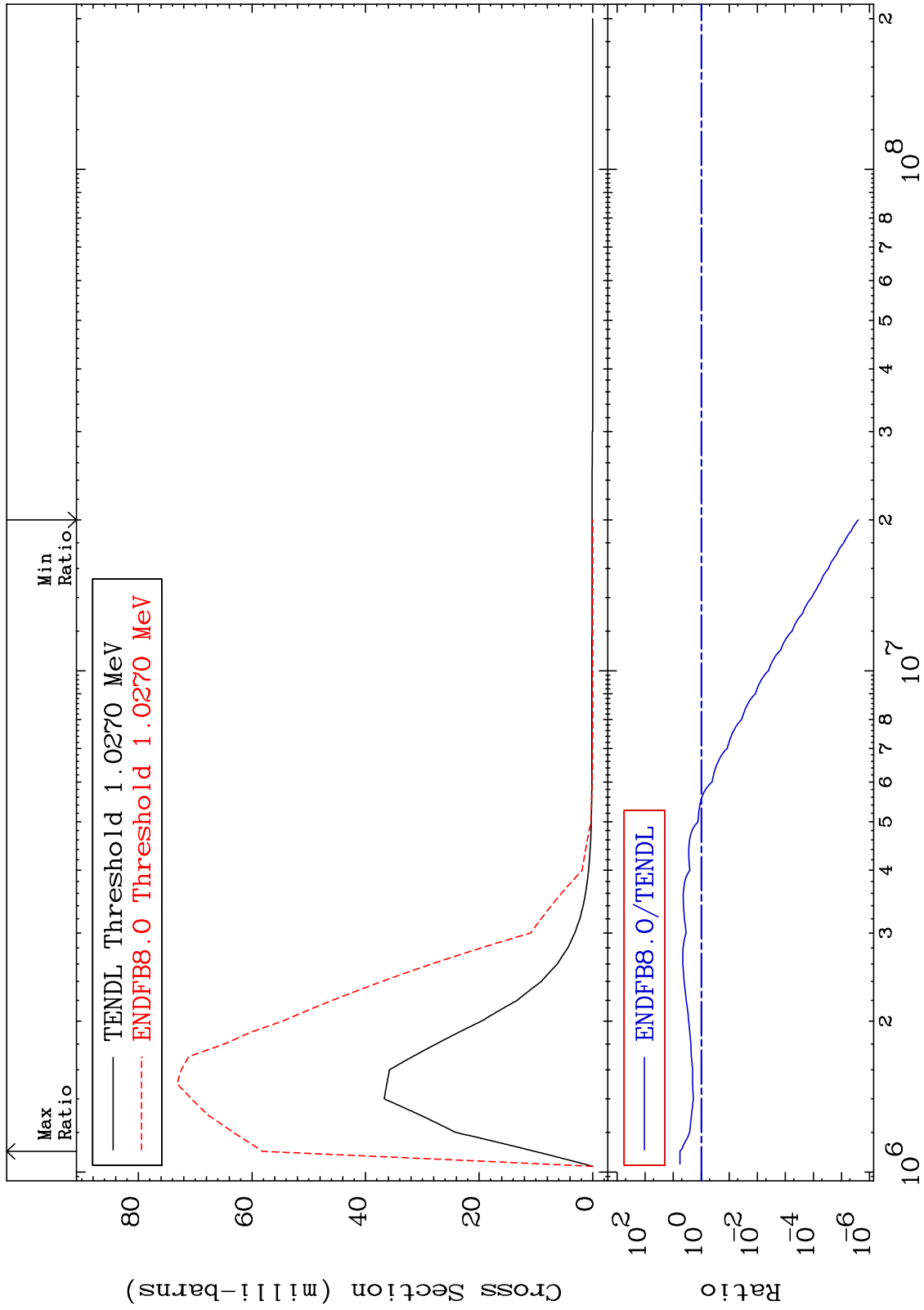
MAT 6234

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

62-Sm-147
-100.0 To -82.26%



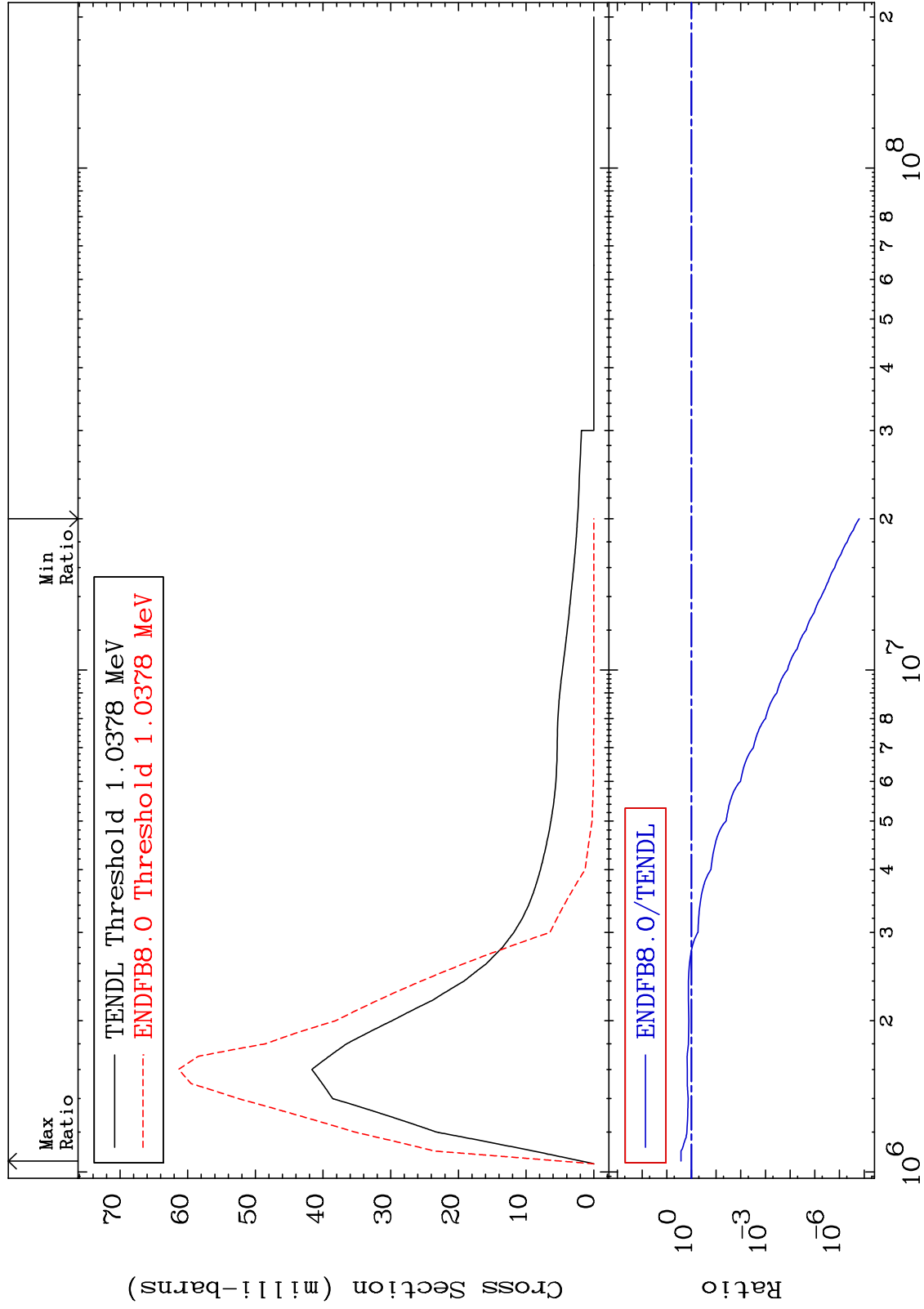
MAT 6234 MT= 62 (n,n') Level
 Cross Section 62-Sm-147
 -100.0 To 470.9 %



MAT 6234

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

62-Sm-147
-100.0 To 163.6 %



22

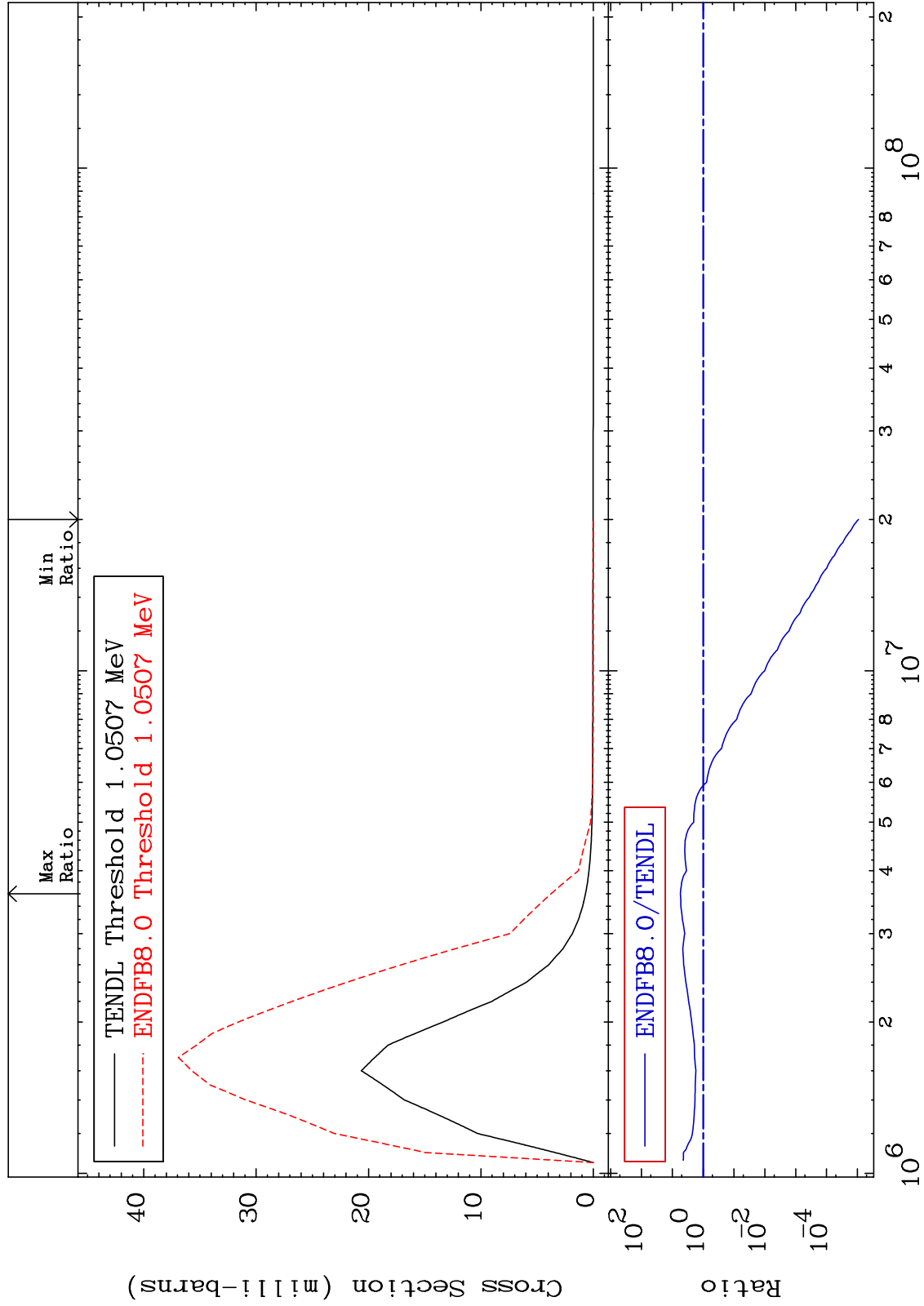
62-Sm-147

62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To 446.1 %



23

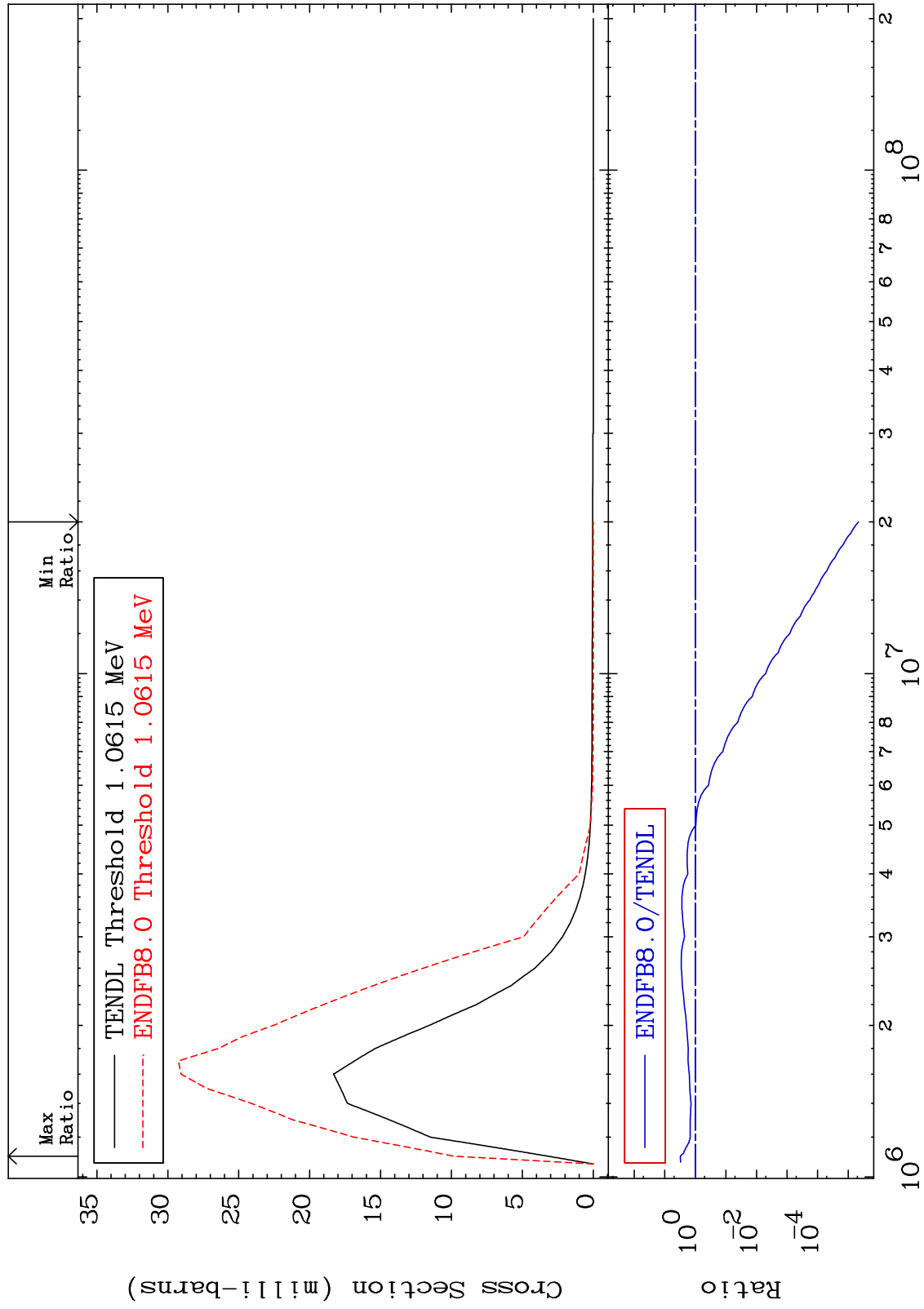
62-Sm-147

62-Sm-147

MAT 6234

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

62-Sm-147
-100.0 To 207.6 %

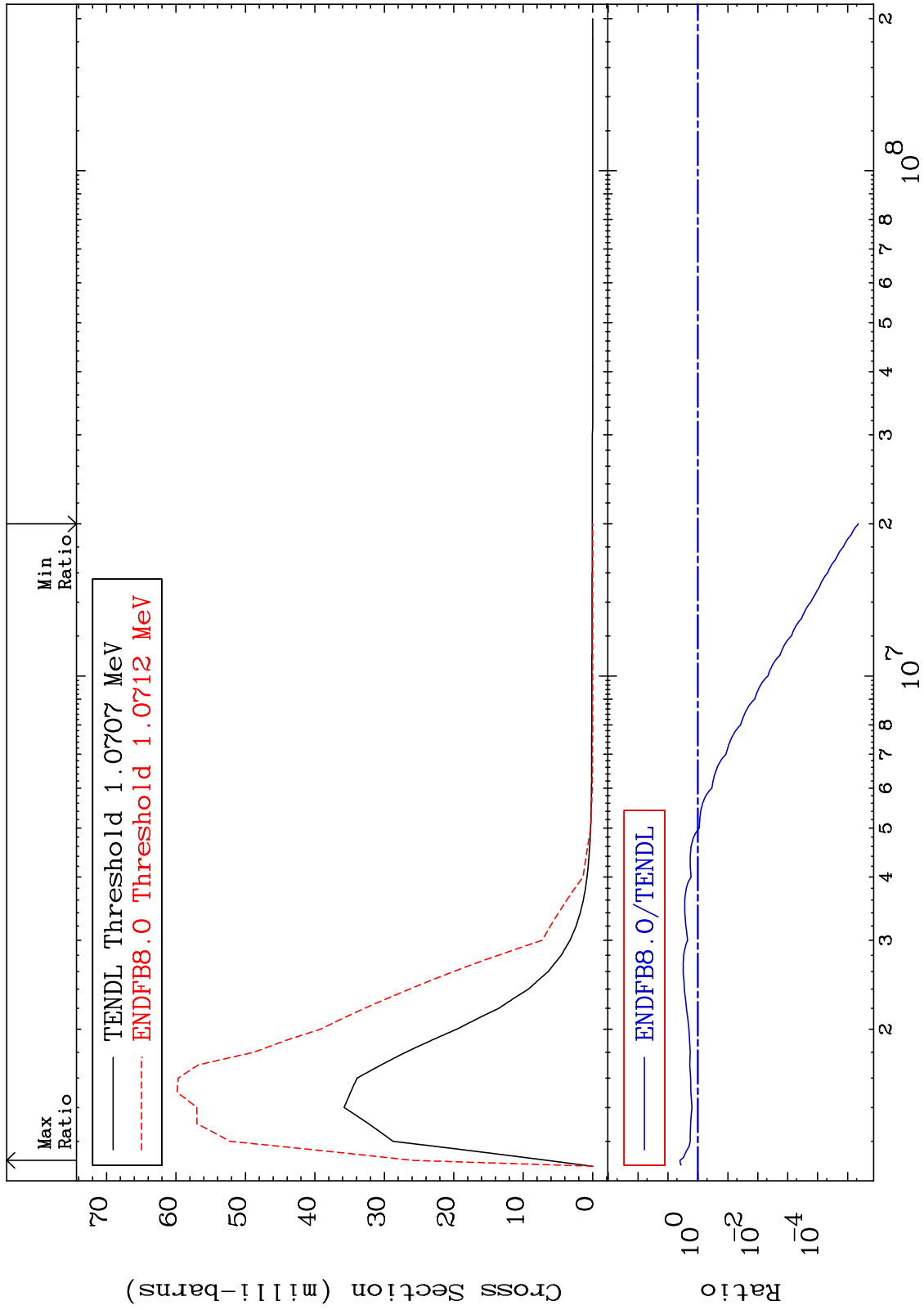


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Incident Energy (eV)

62-Sm-147

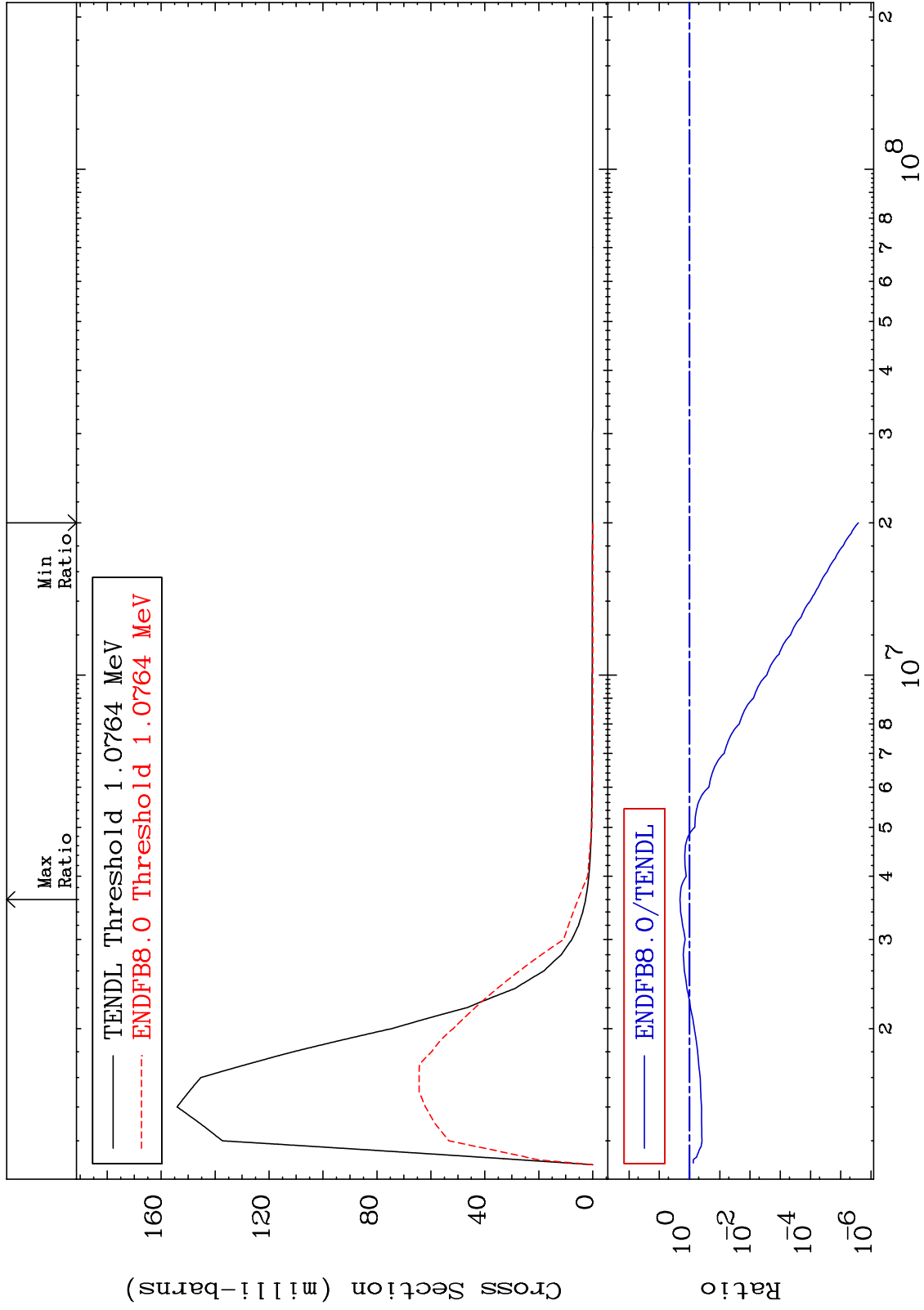
MAT 6234 MT= 66 (n,n') Level
 Cross Section 62-Sm-147
 -100.0 To 296.5 %



MAT 6234

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

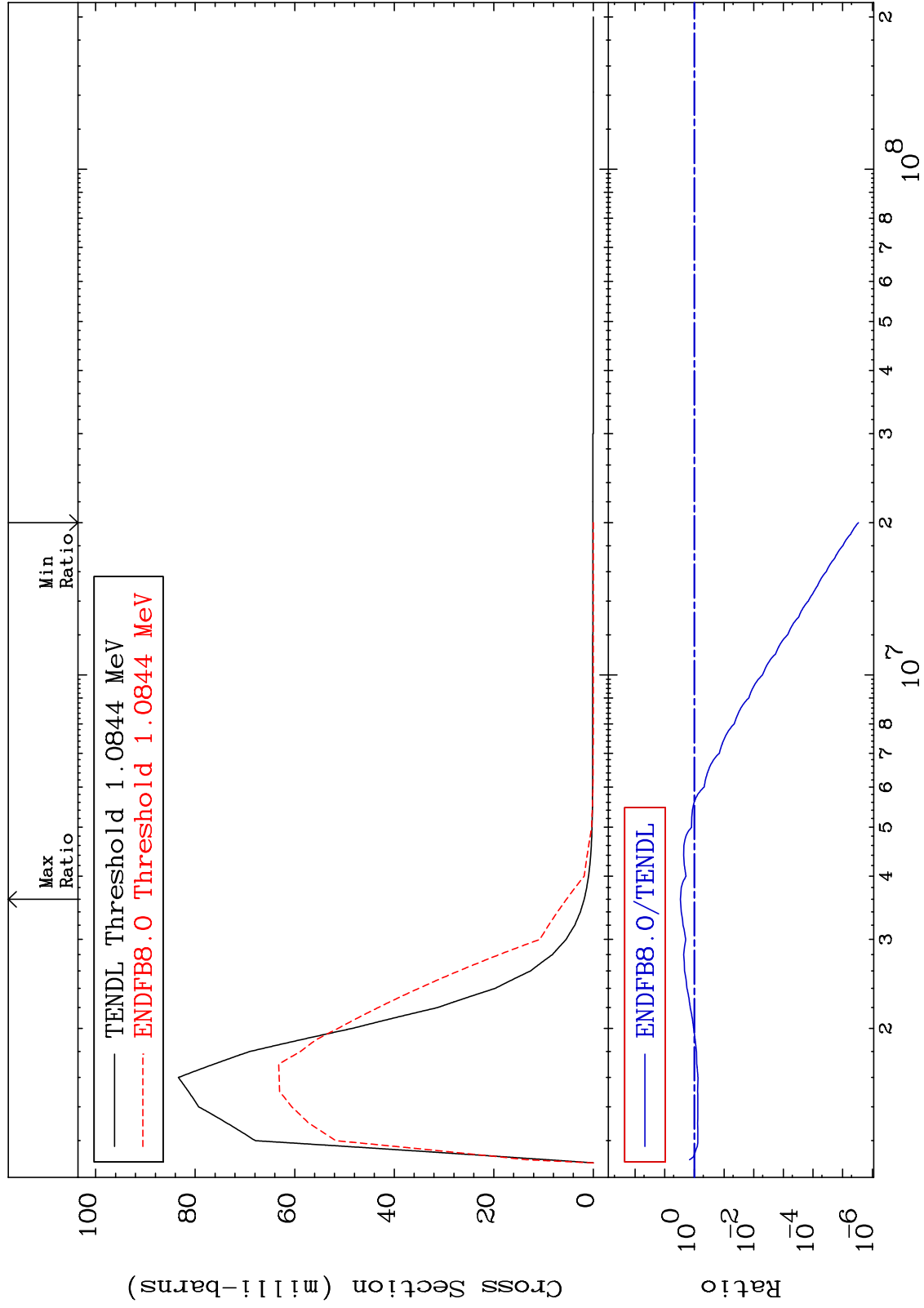
62-Sm-147
-100.0 To 106.7 %



MAT 6234

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

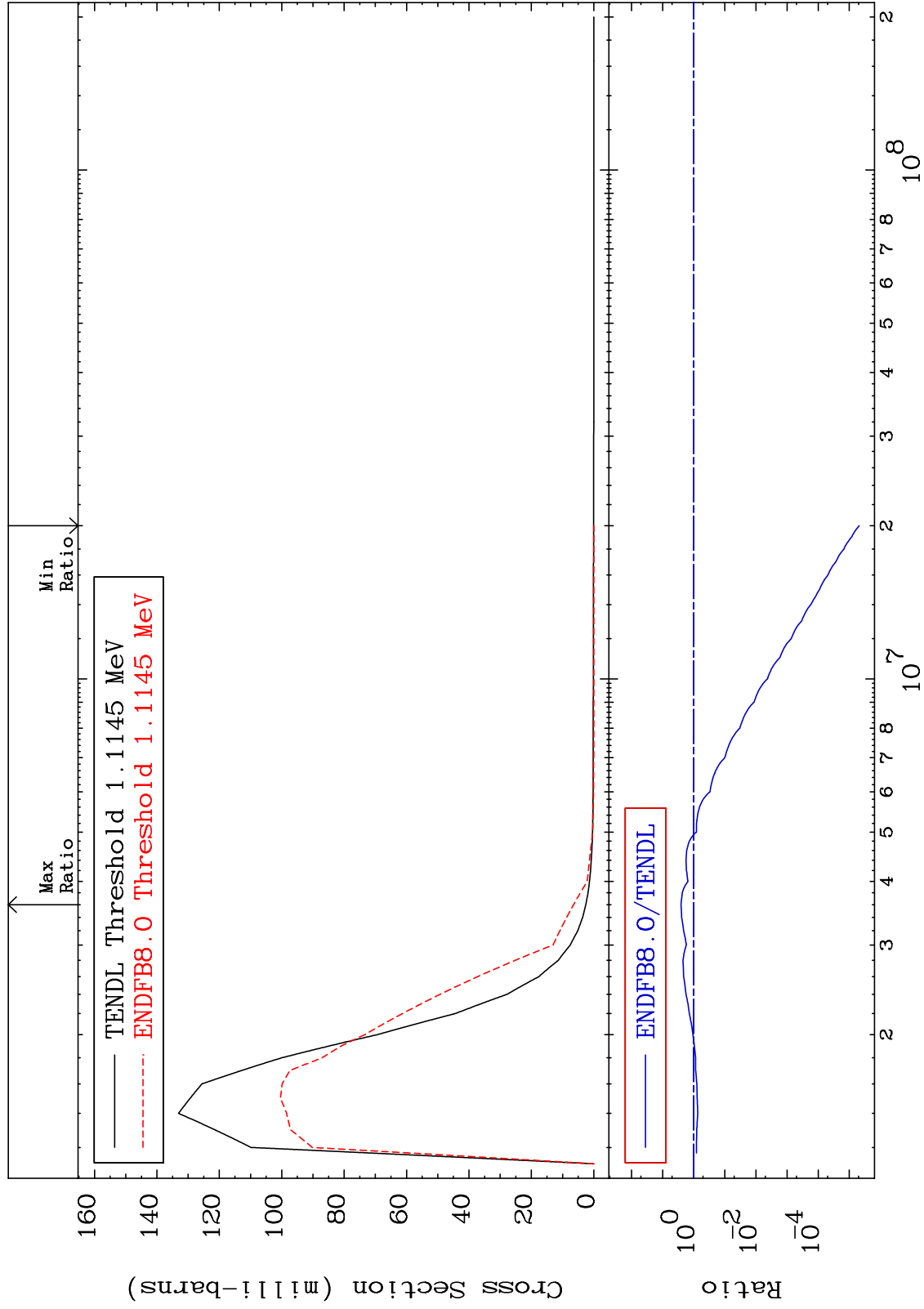
62-Sm-147
-100.0 To 195.6 %



MAT 6234

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

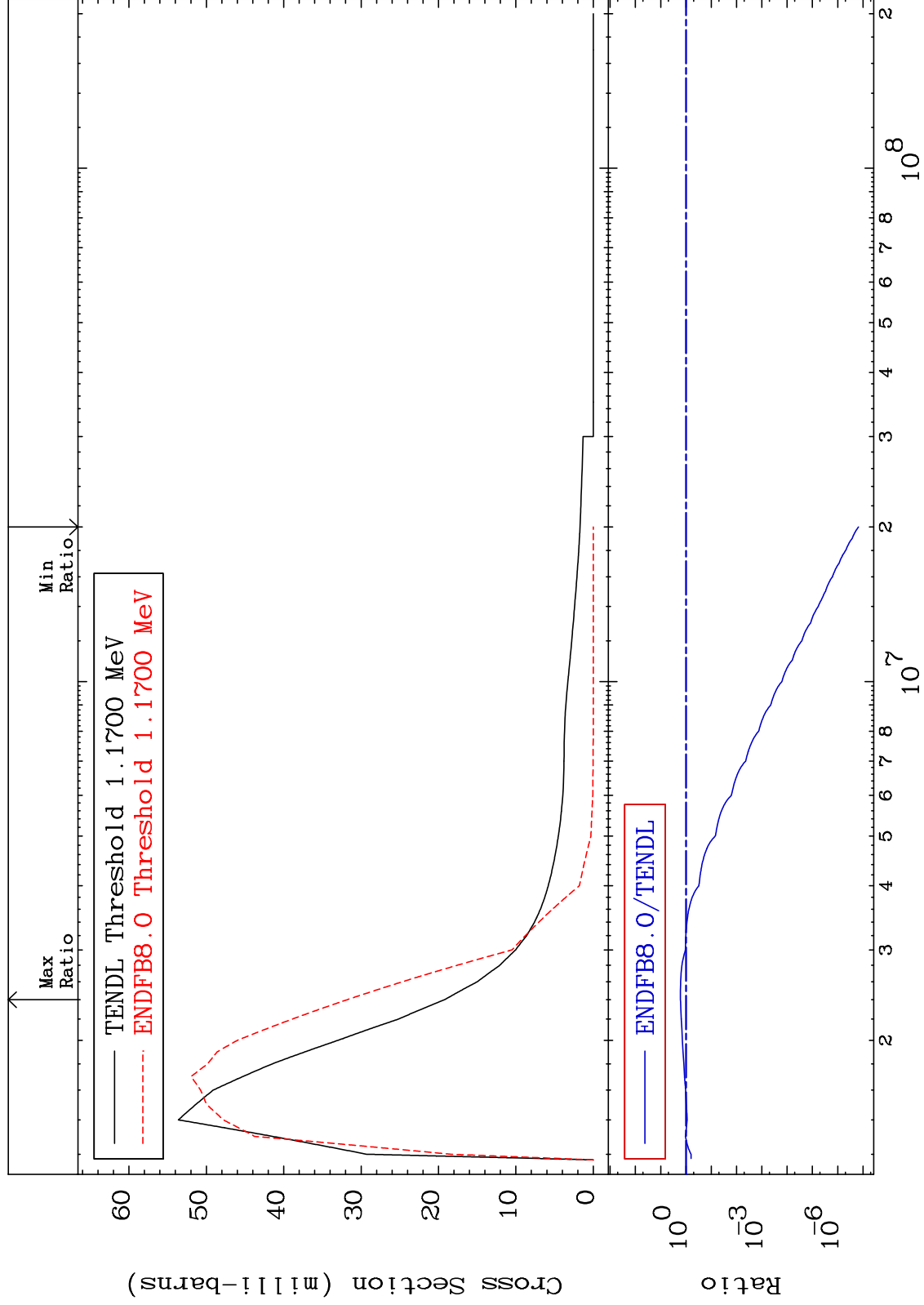
62-Sm-147
-100.0 To 155.0 %



MAT 6234

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

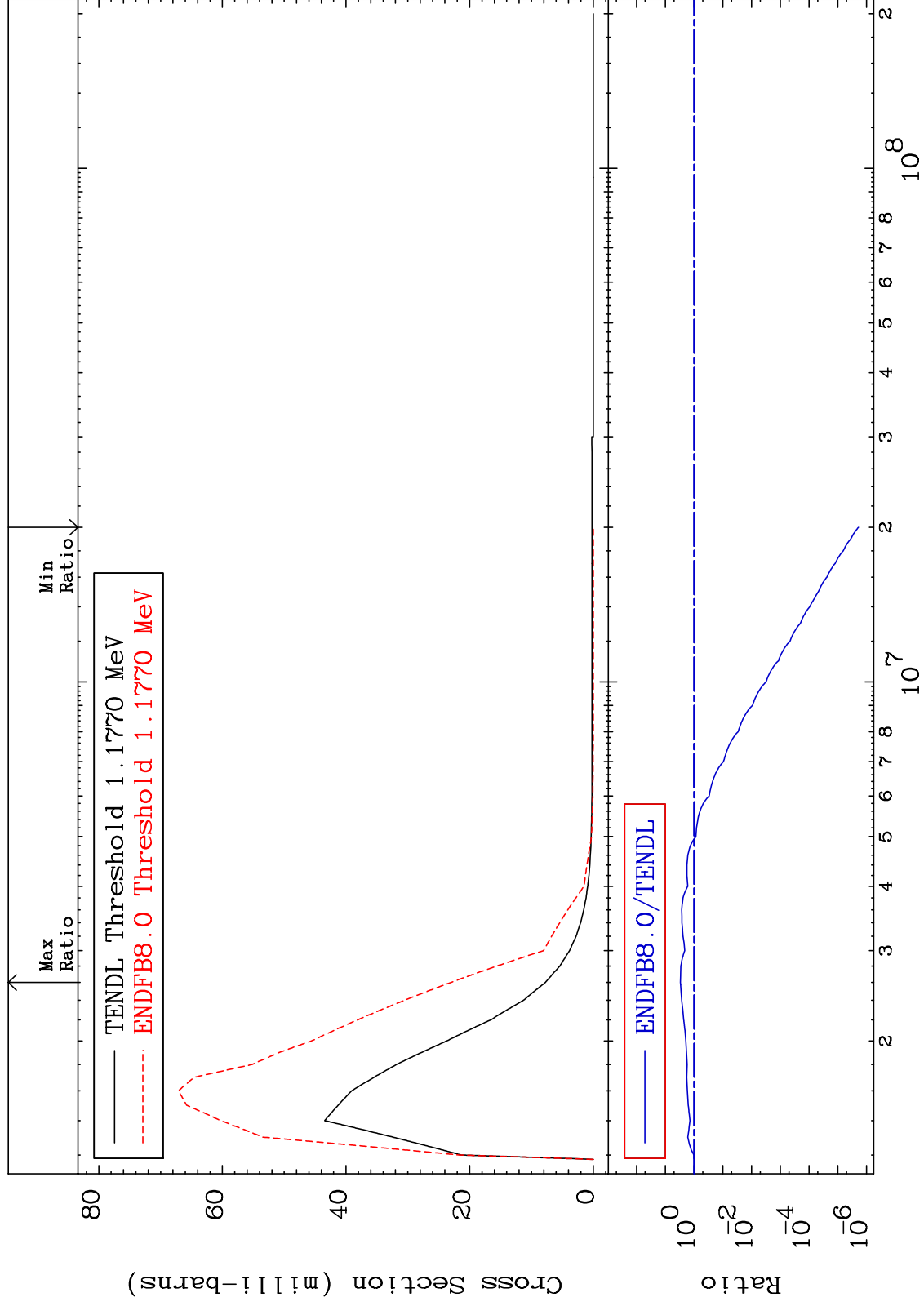
62-Sm-147
-100.0 To 65.49 %



MAT 6234

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

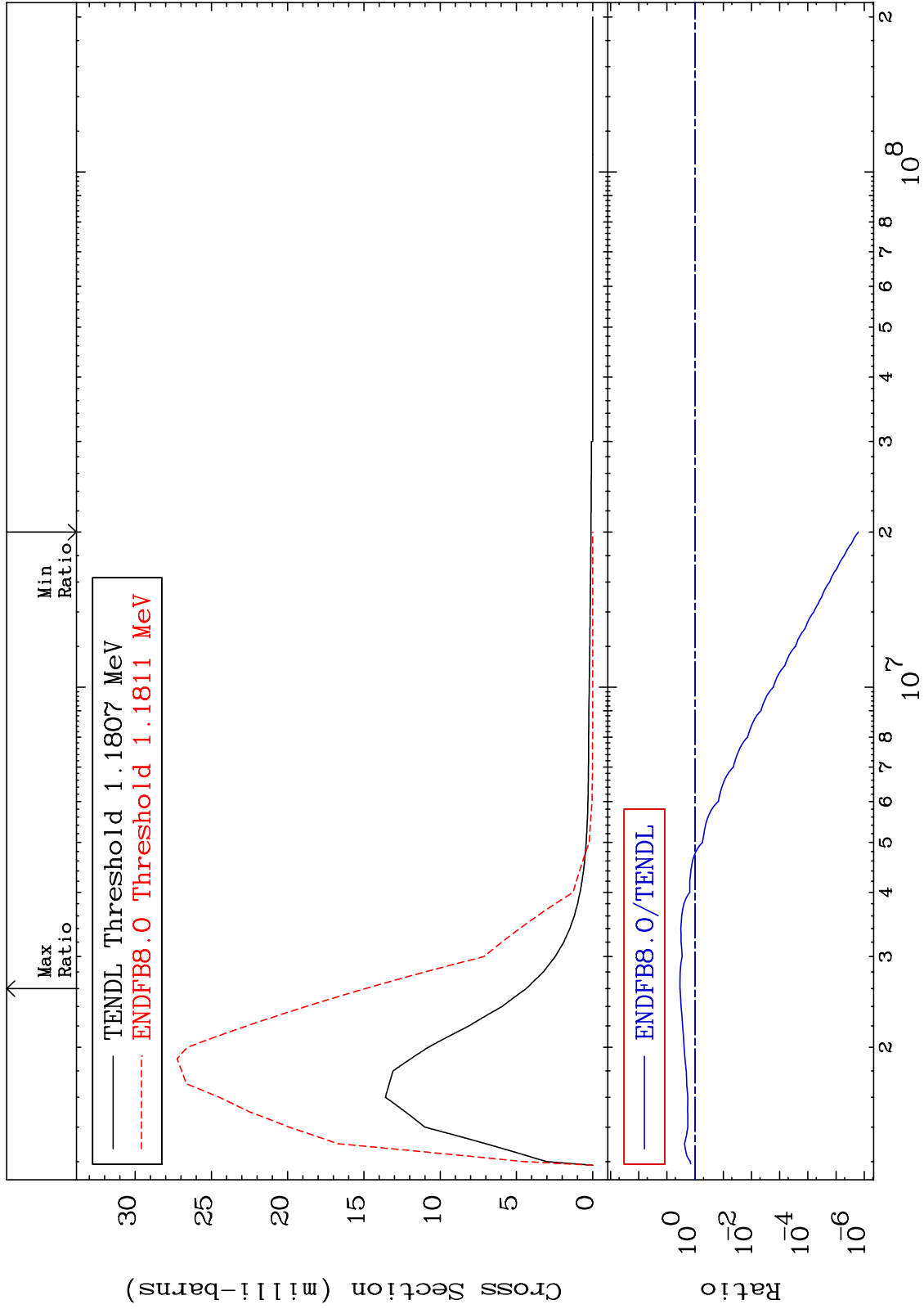
62-Sm-147
-100.0 To 197.6 %



MAT 6234

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

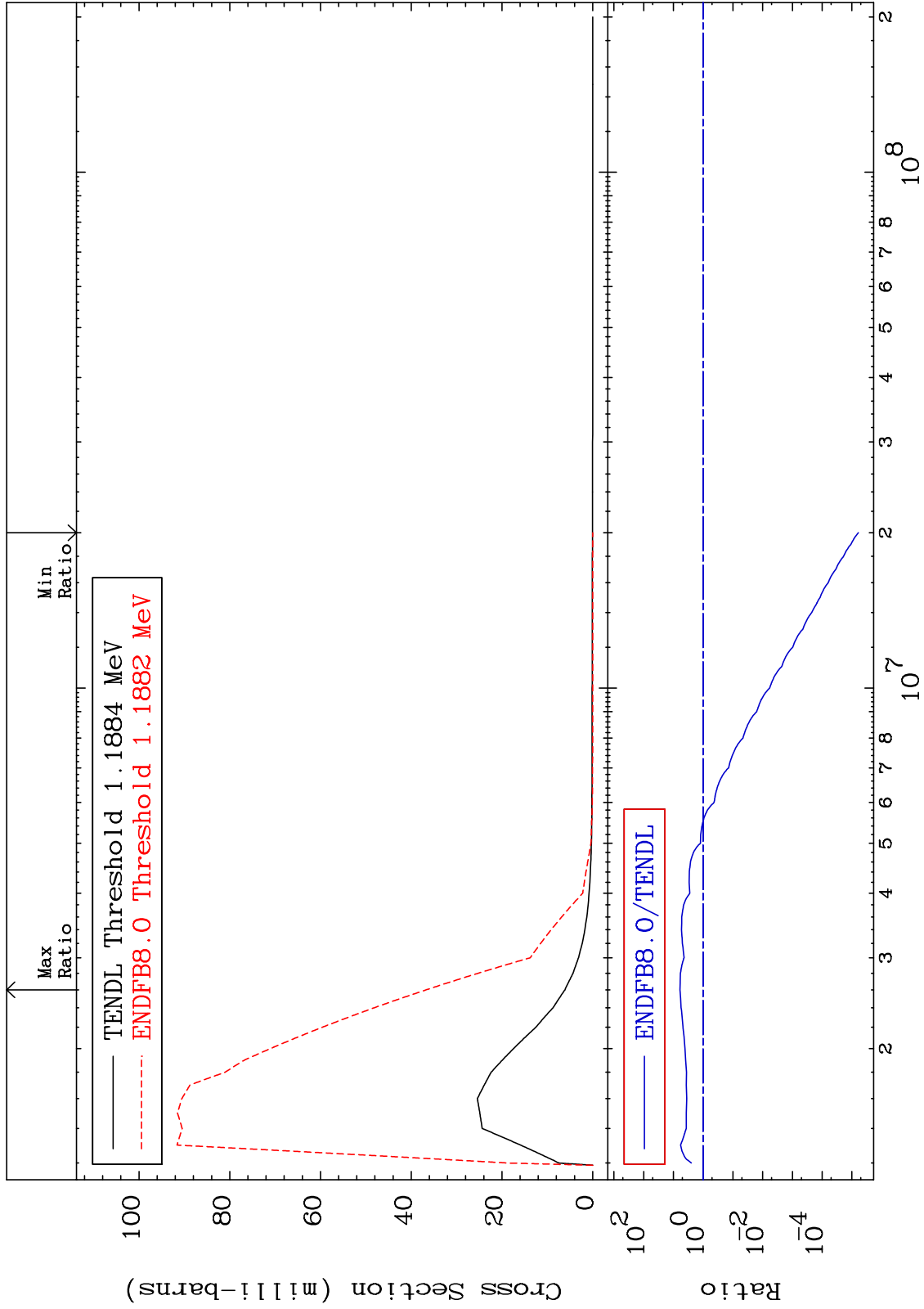
62-Sm-147
-100.0 To 242.3 %



MAT 6234

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

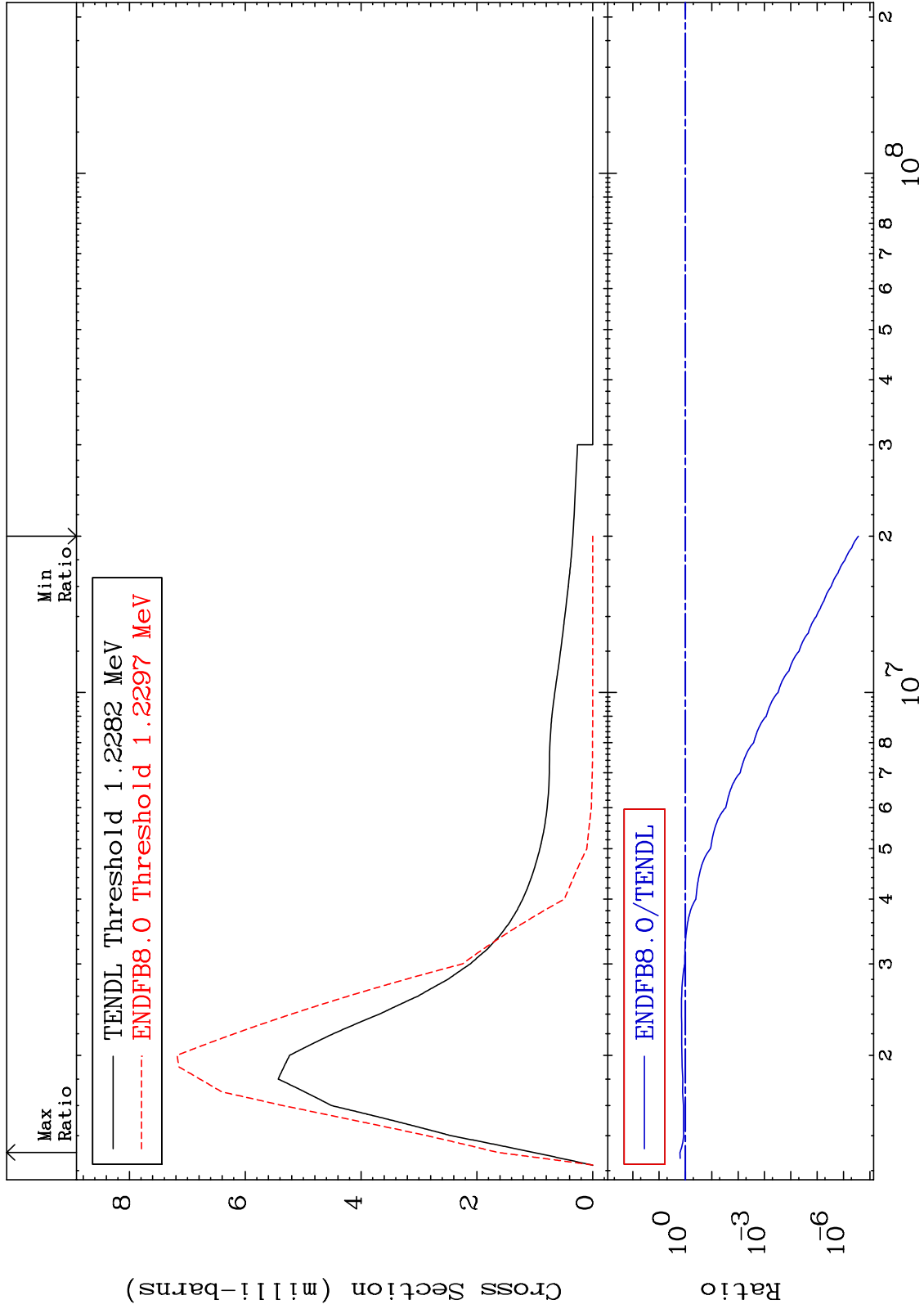
62-Sm-147
-100.0 To 499.3 %



MAT 6234

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

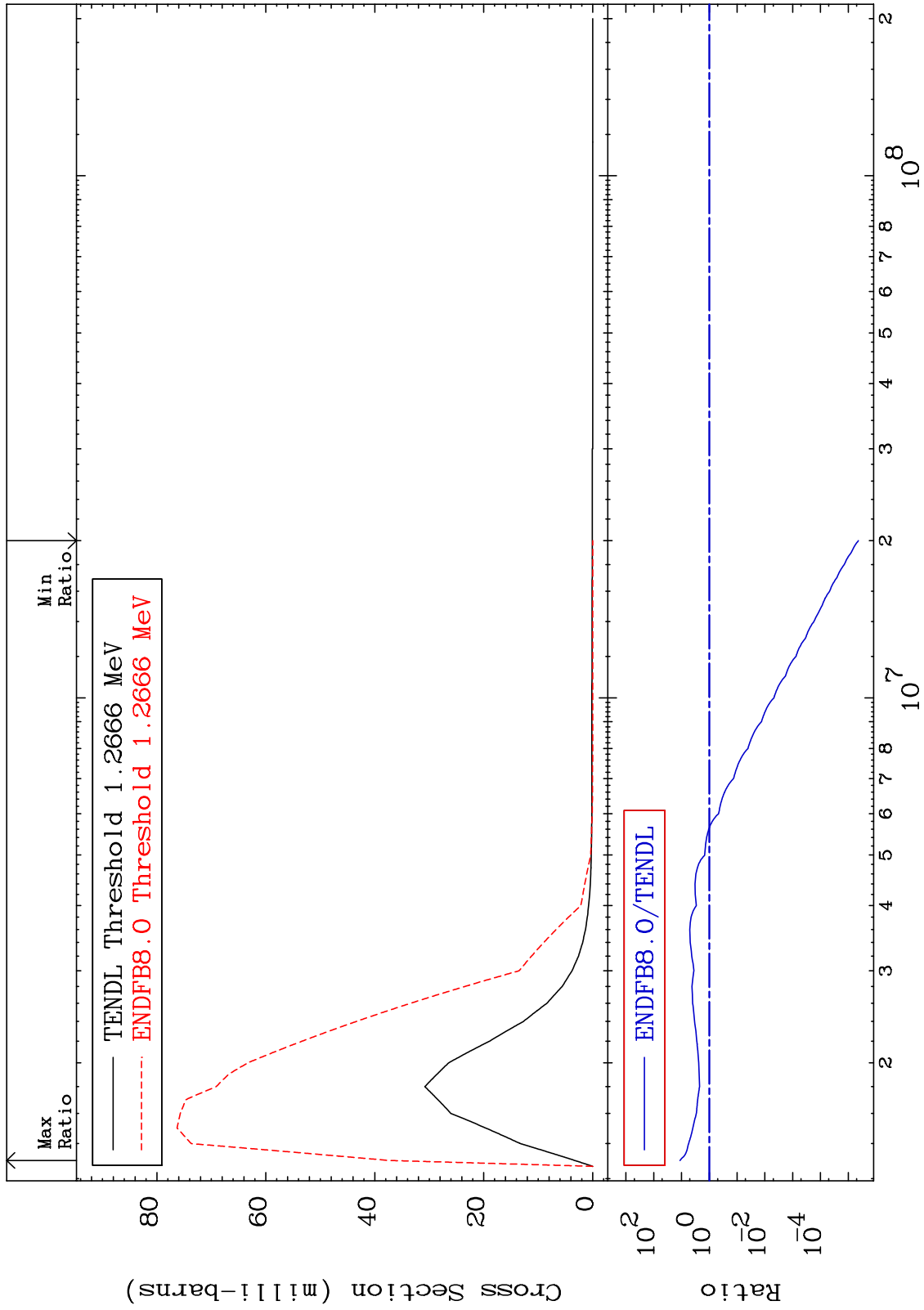
62-Sm-147
-100.0 To 60.41 %



MAT 6234

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

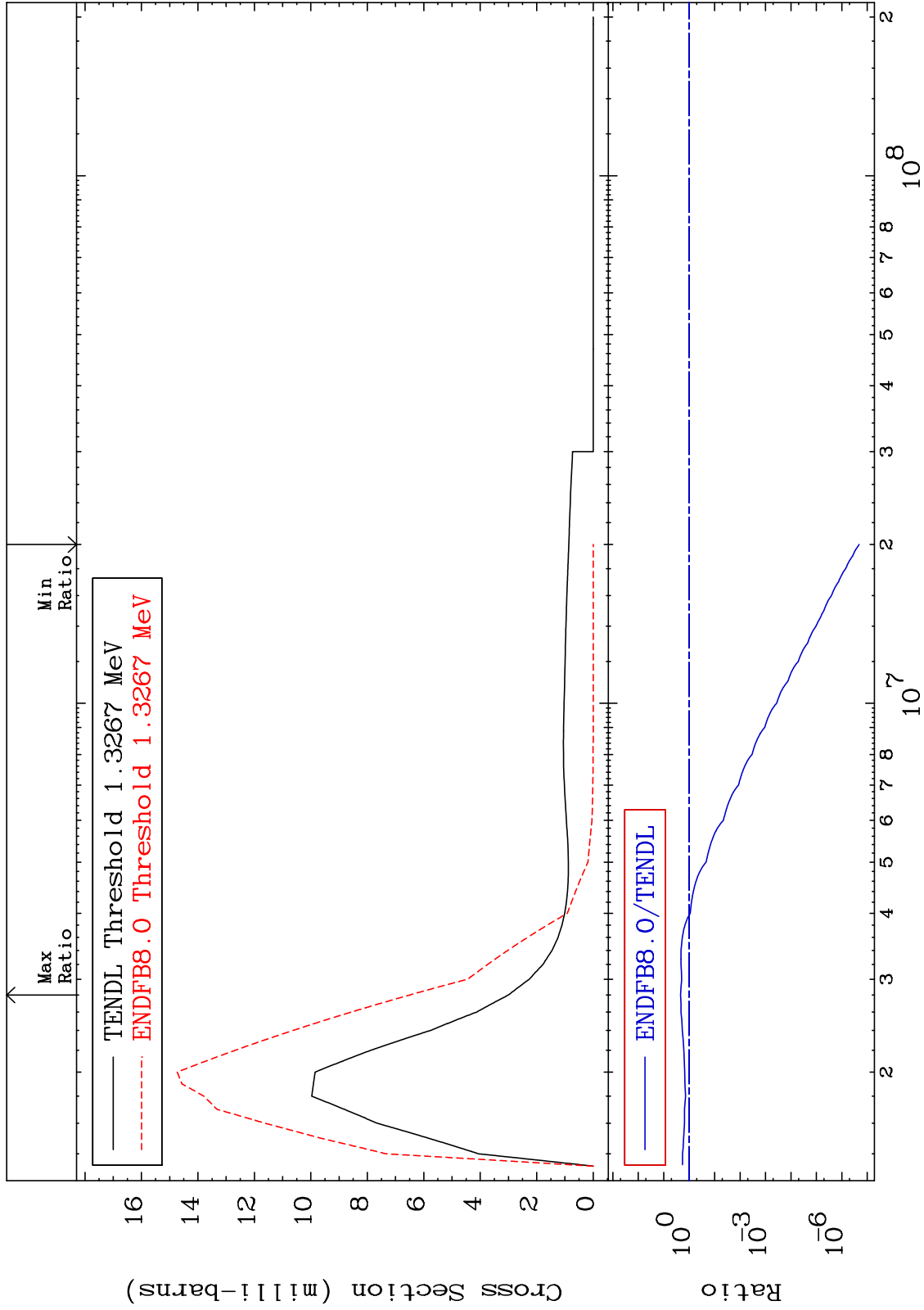
62-Sm-147
-100.0 To 1031. %



MAT 6234

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

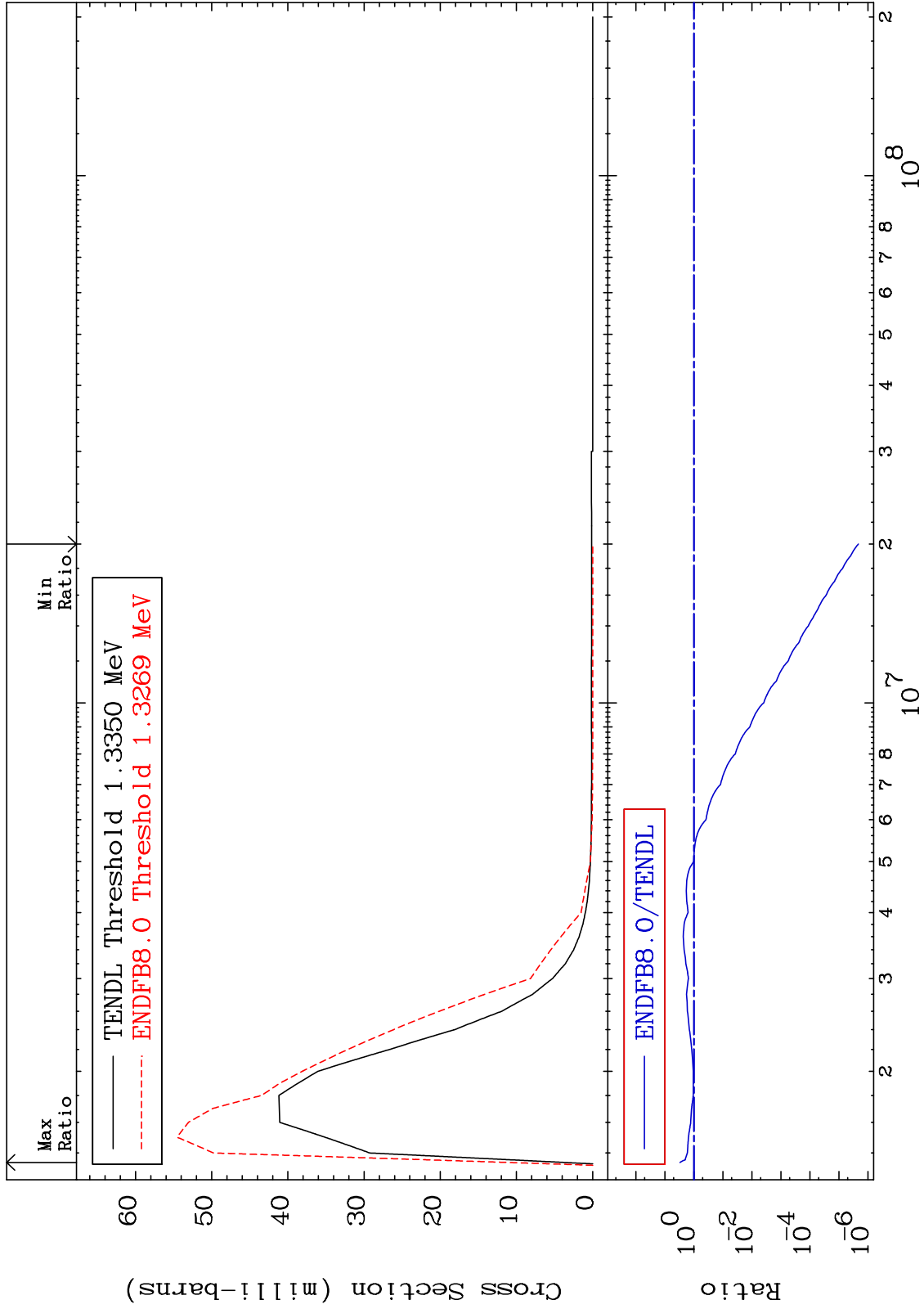
62-Sm-147
-100.0 To 116.4 %



MAT 6234

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

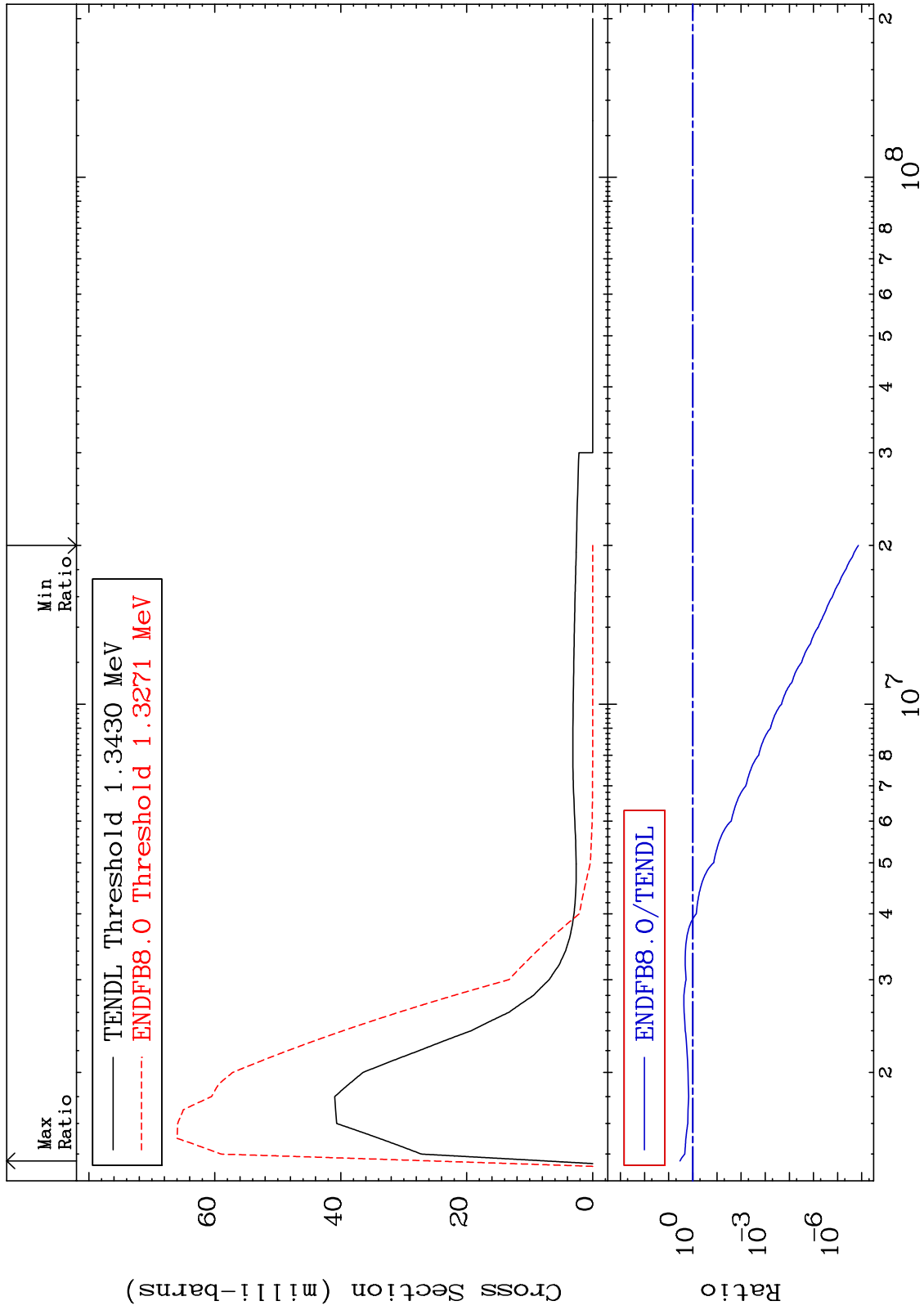
62-Sm-147
-100.0 To 202.9 %



MAT 6234

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

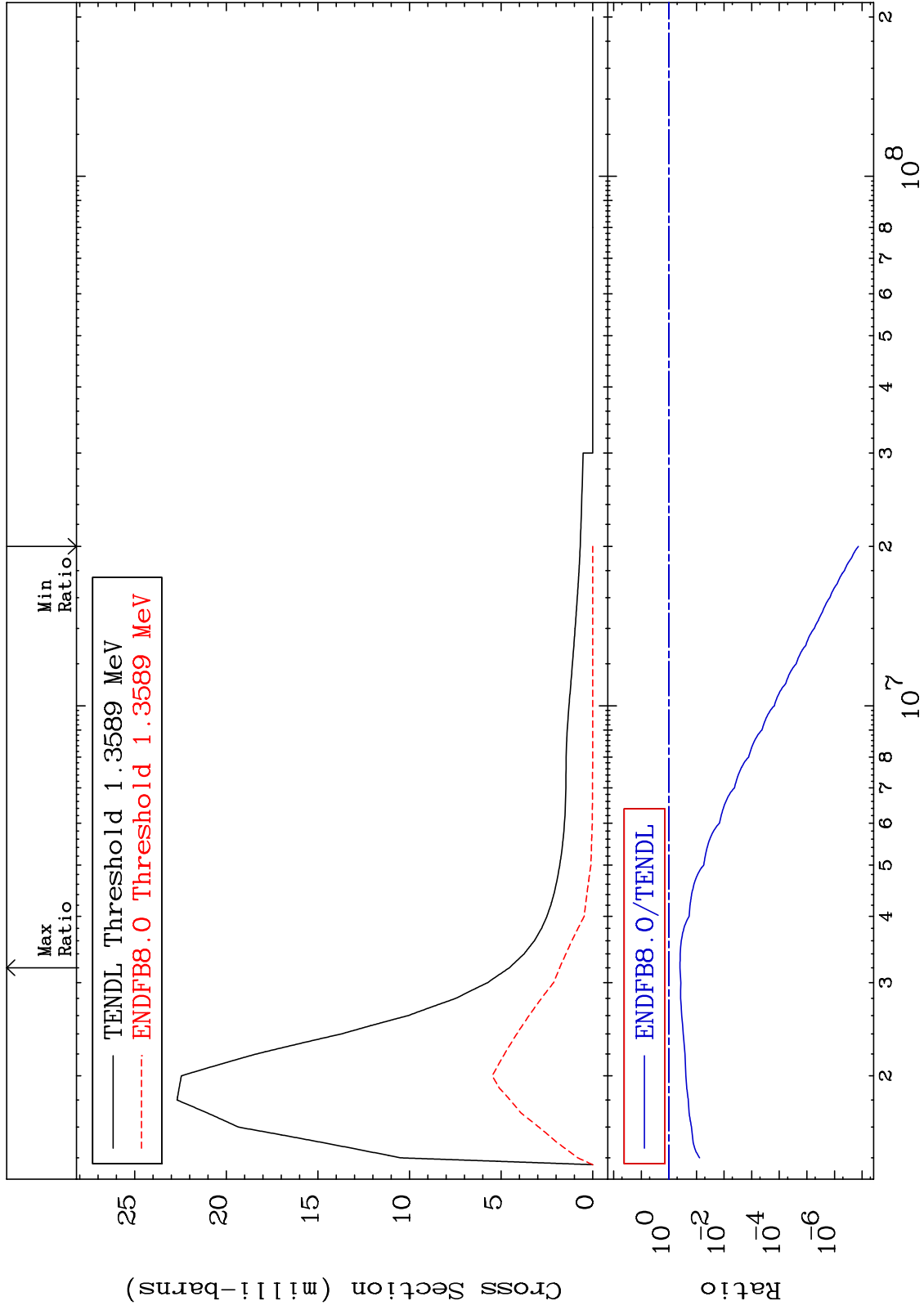
62-Sm-147
-100.0 To 239.2 %



MAT 6234

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

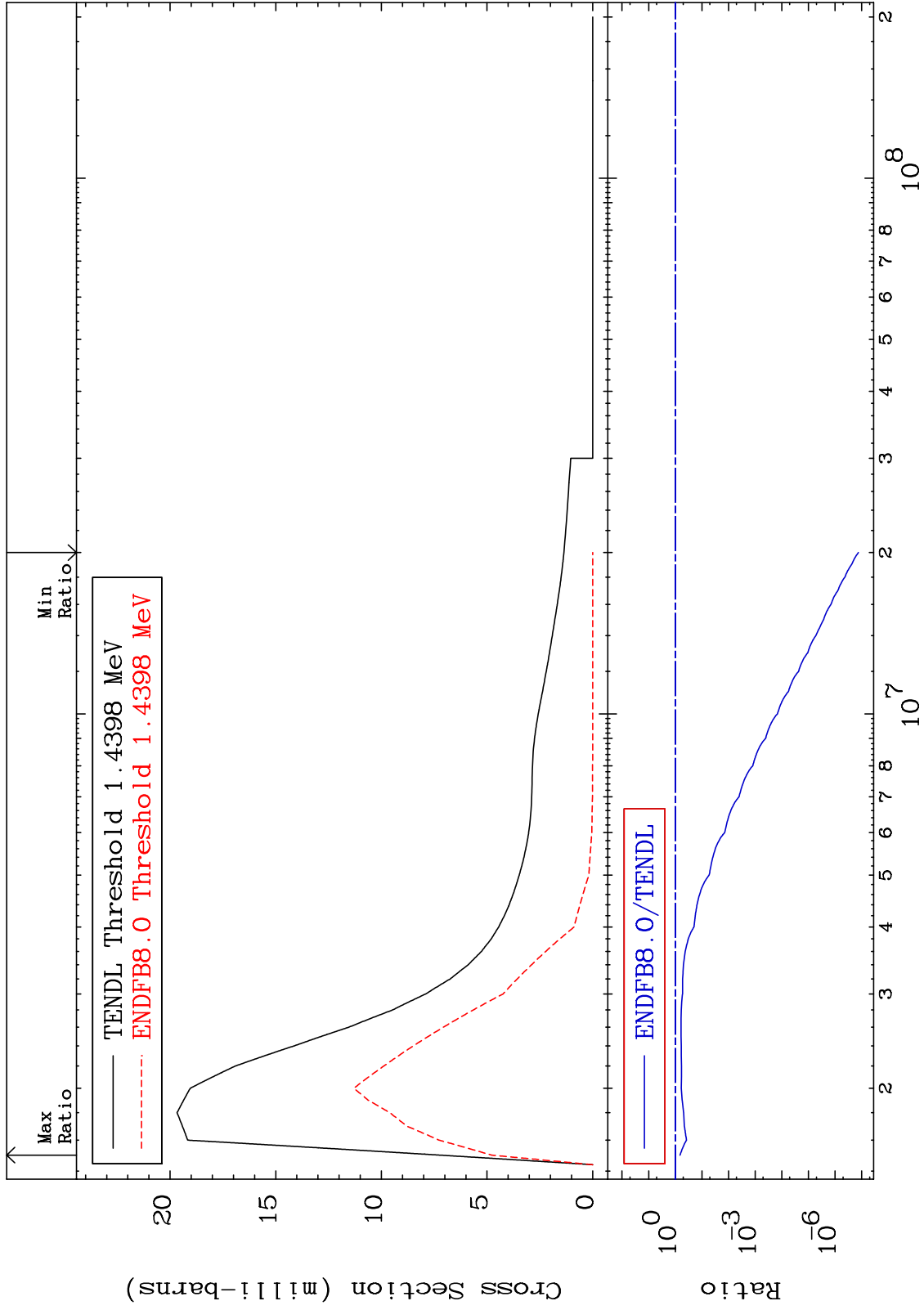
62-Sm-147
-100.0 To -60.45%



MAT 6234

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

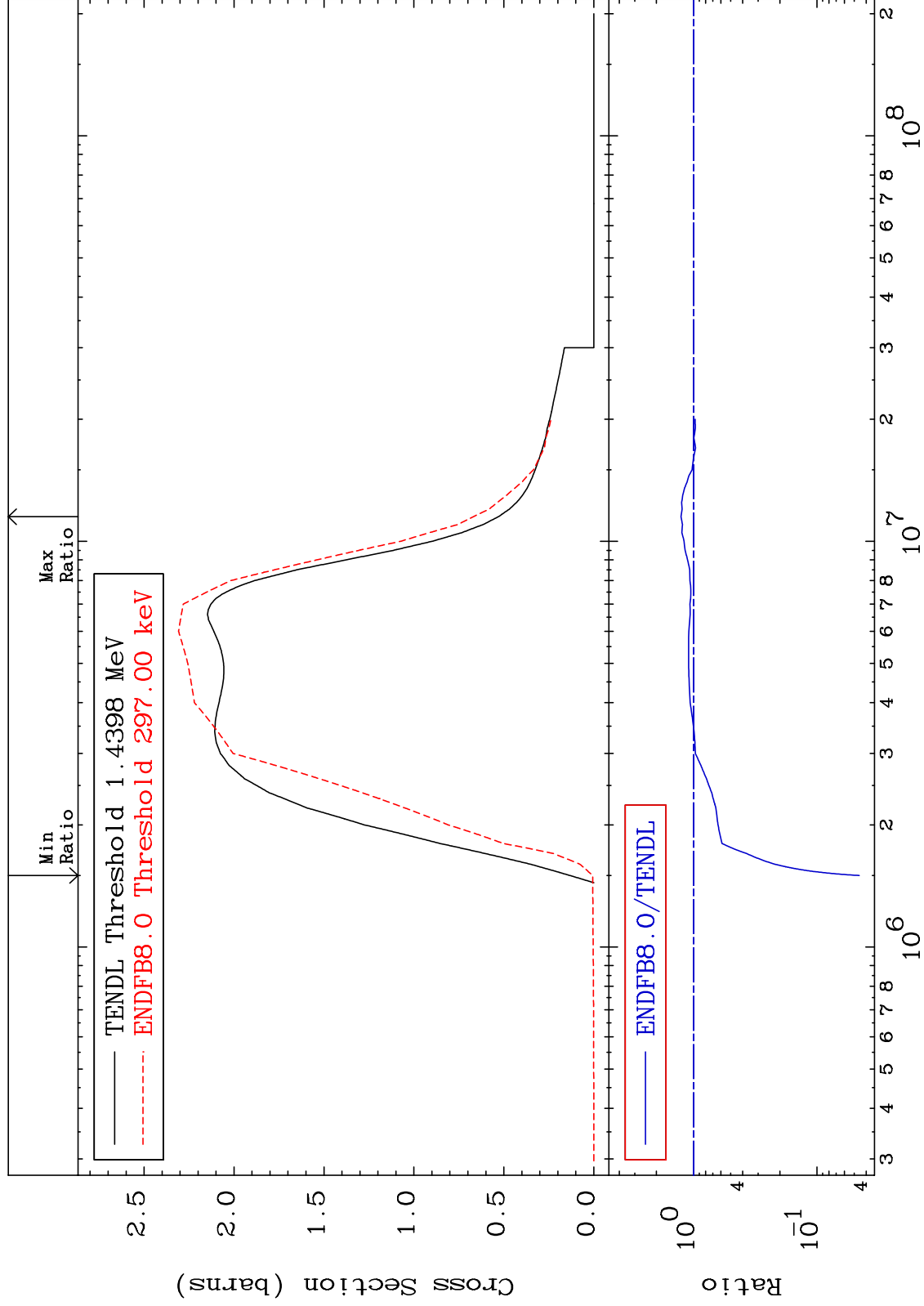
62-Sm-147
-100.0 To -33.65%



MAT 6234

(n, n') Continuum
Cross Section

62-Sm-147
-95.46 To 26.33 %



40

Incident Energy (eV)

62-Sm-147

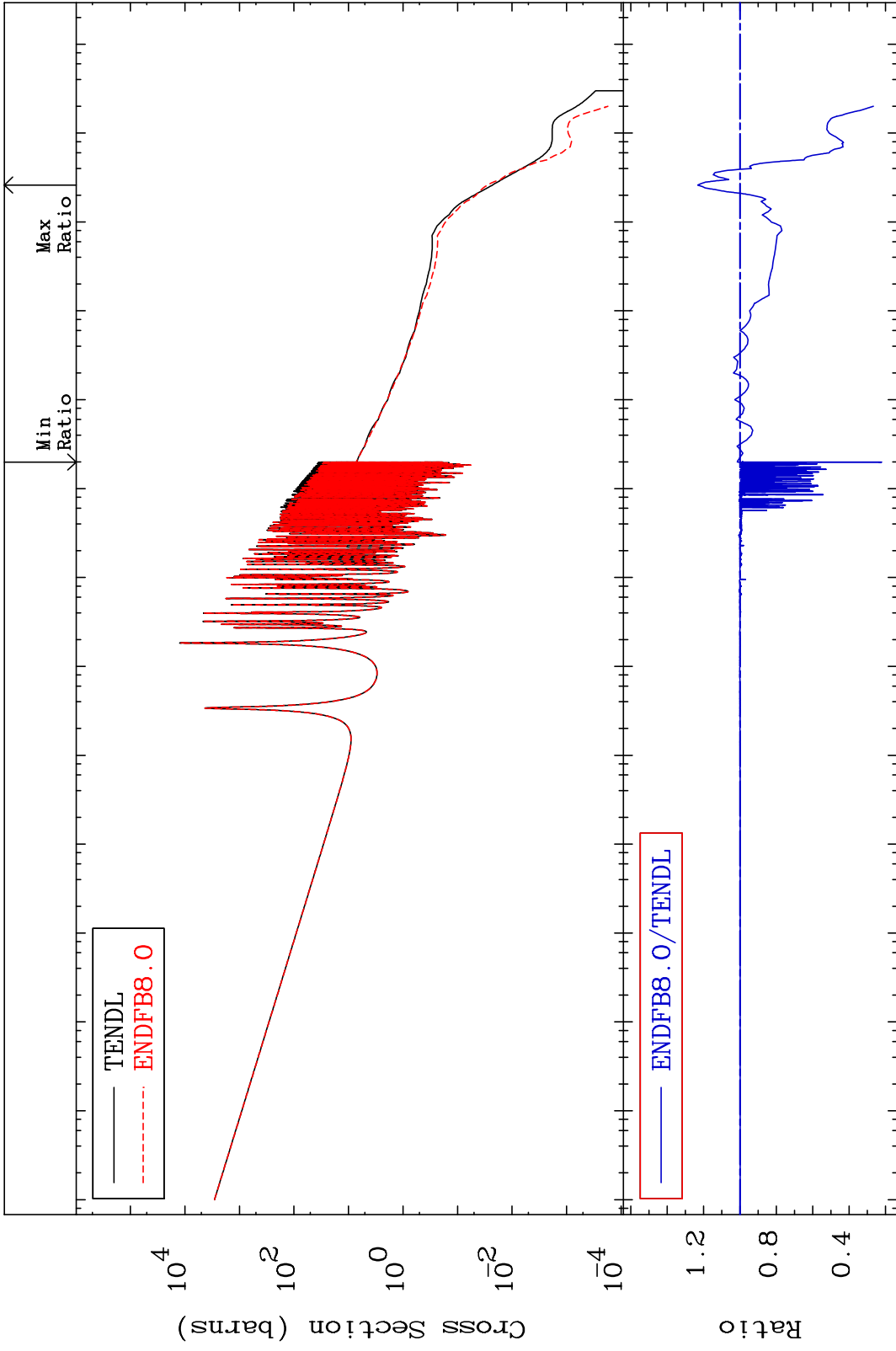
MAT 6234

62-Sm-147

(n, γ)

Cross Section

-77.76 To 23.19 %



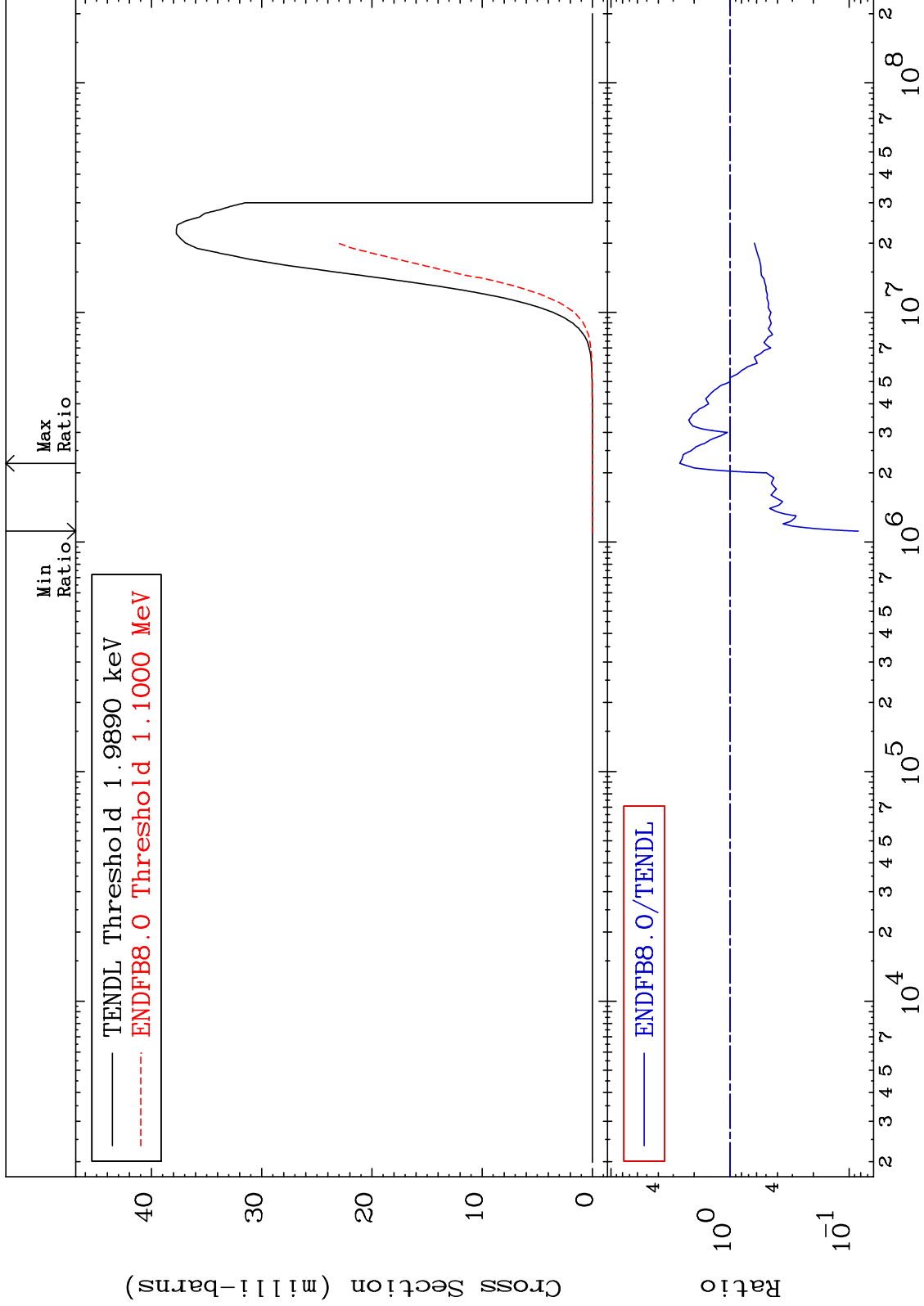
MAT 6234

(n, p)

62-Sm-147

Cross Section

-91.63 To 164.3 %



42

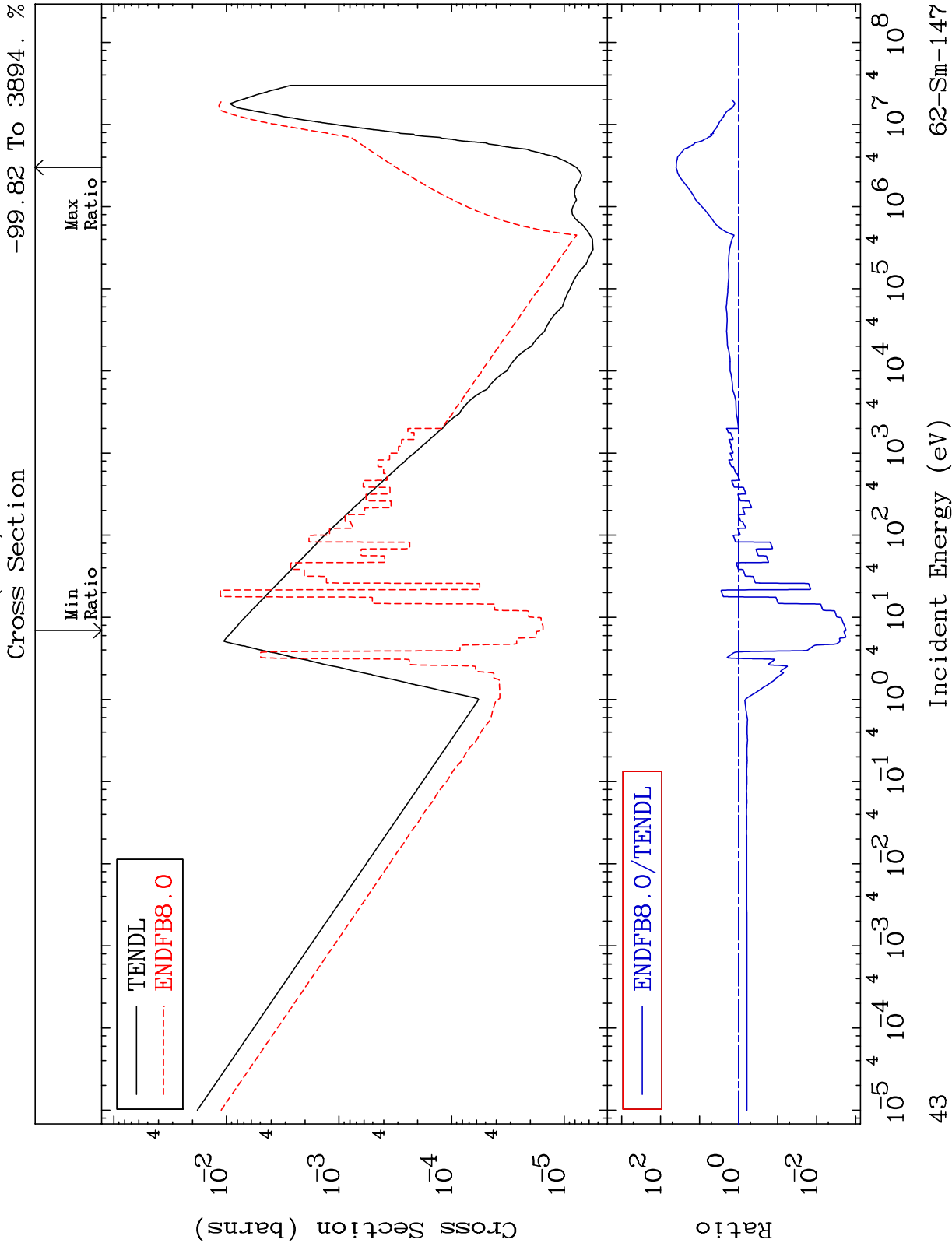
Incident Energy (eV)

62-Sm-147

MAT 6234

(n, α)

62-Sm-147
-99.82 To 3894. %

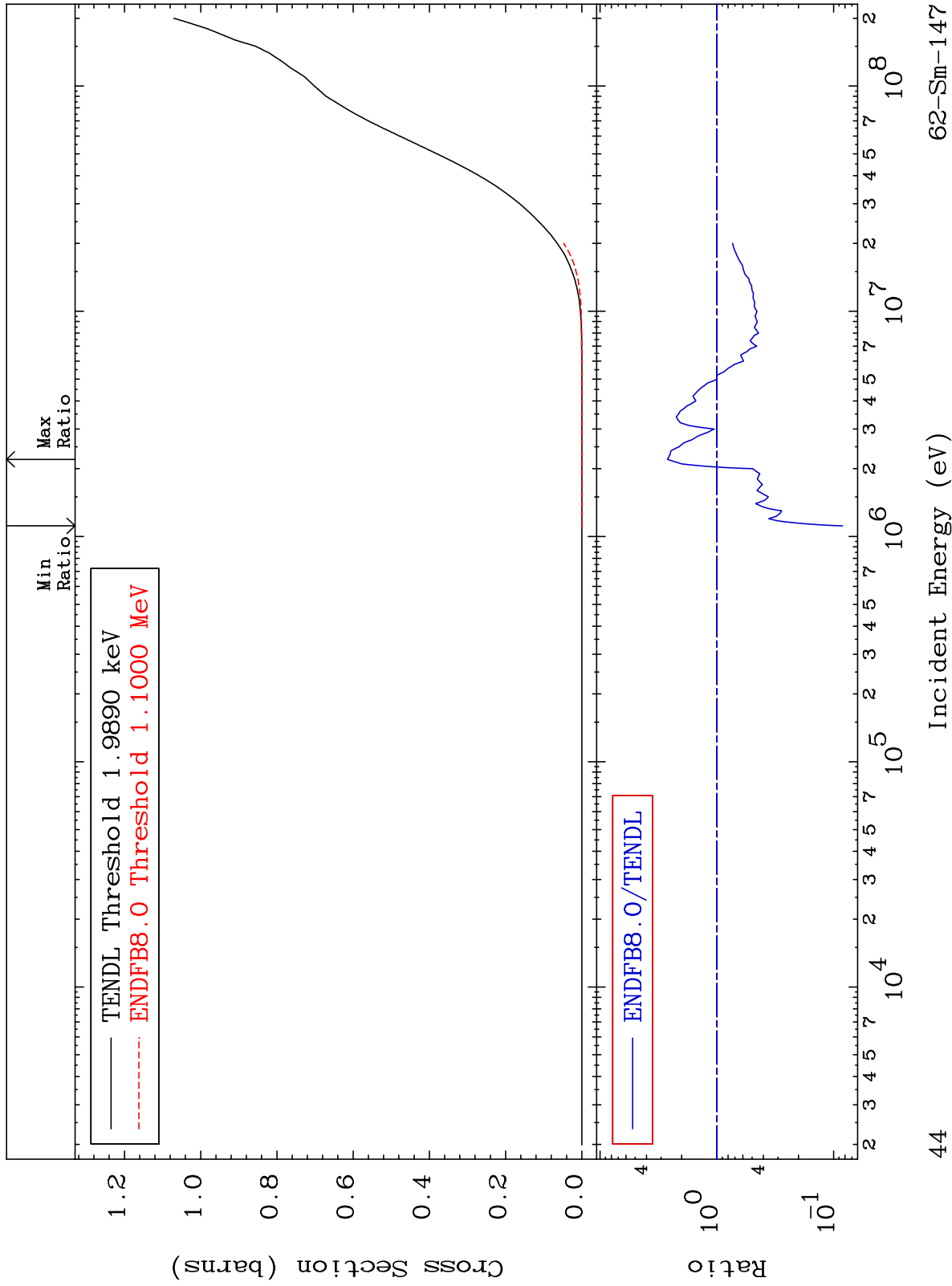


62-Sm-147

MAT 6234

Hydrogen Production
Cross Section

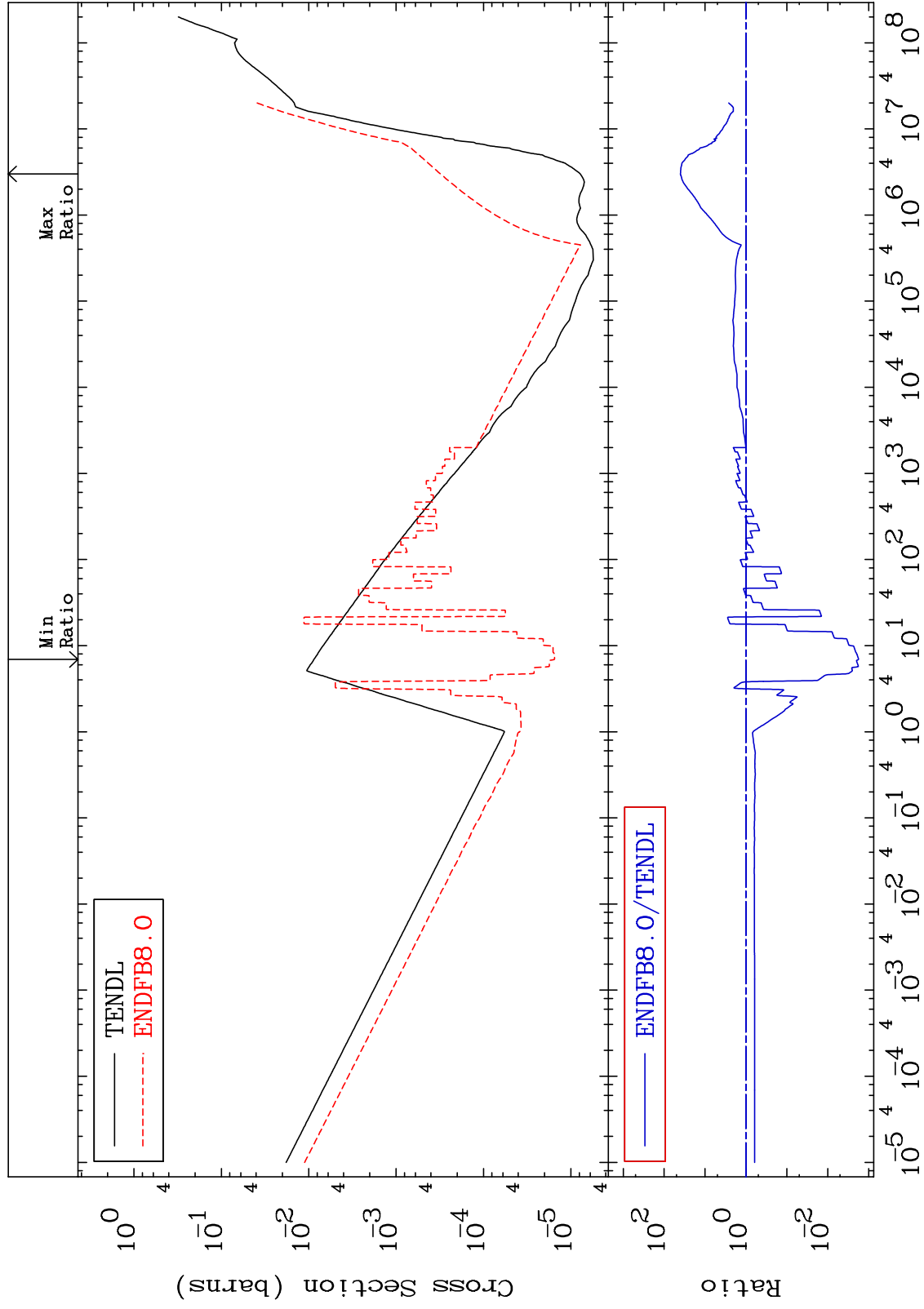
62-Sm-147
-91.63 To 164.3 %



MAT 6234

He-4 Production
Cross Section

62-Sm-147
-99.82 To 3894. %



45

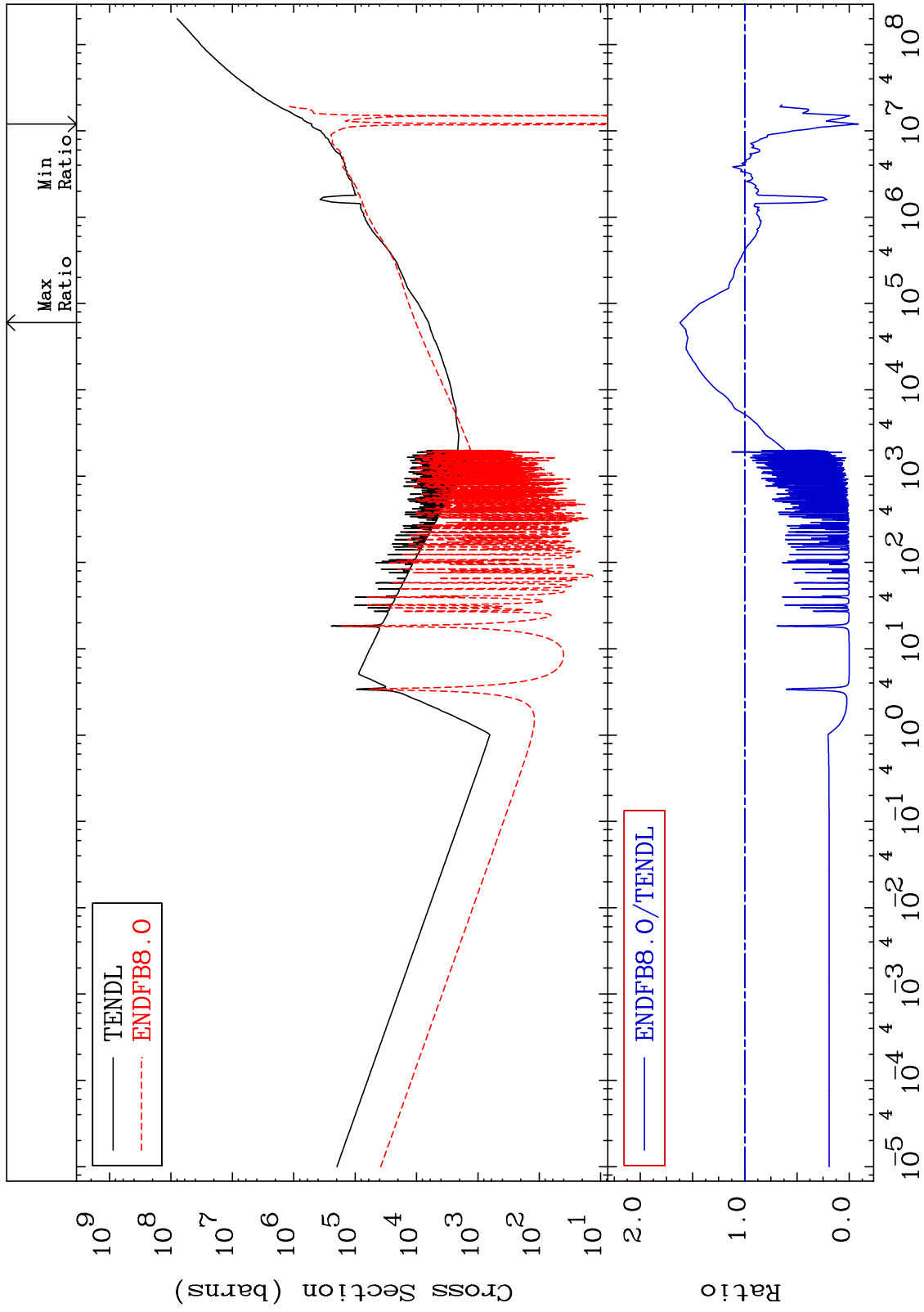
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma total (eV-barns)
Cross Section

62-Sm-147
-108.8 To 61.98 %



46

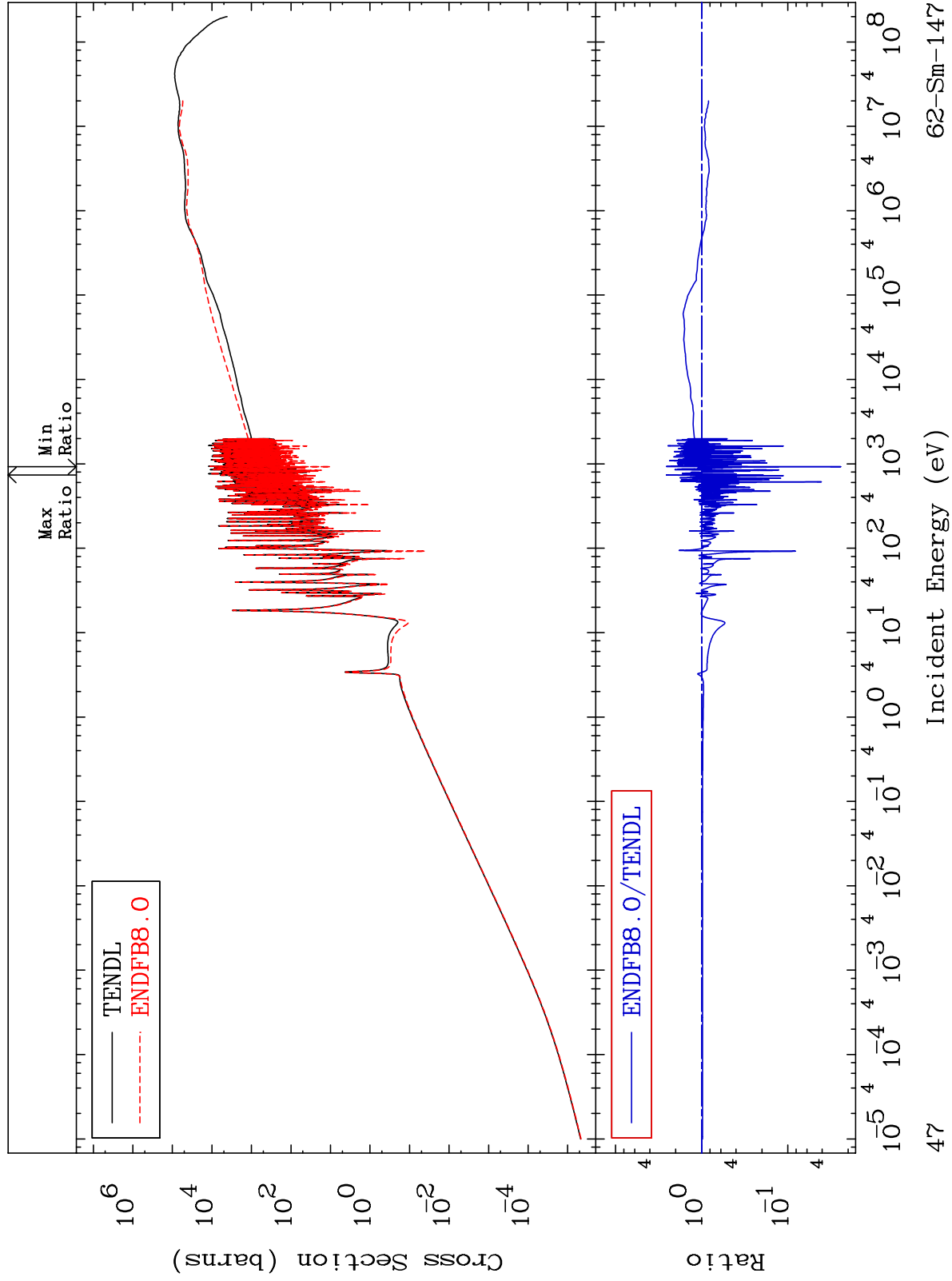
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma elastic
Cross Section

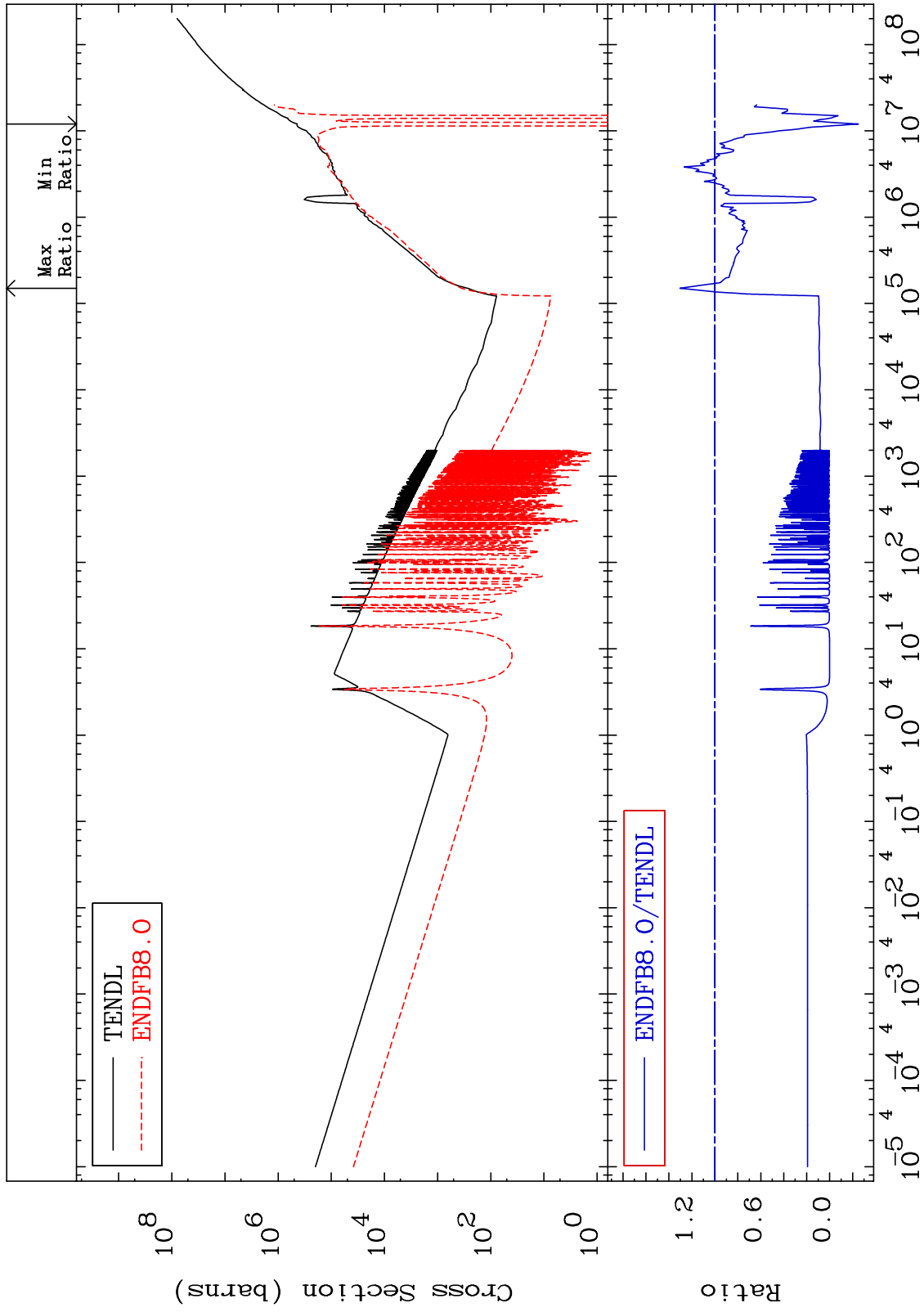
62-Sm-147
-97.57 To 157.1 %



MAT 6234

Kerma non-elastic (all but mt2)
Cross Section

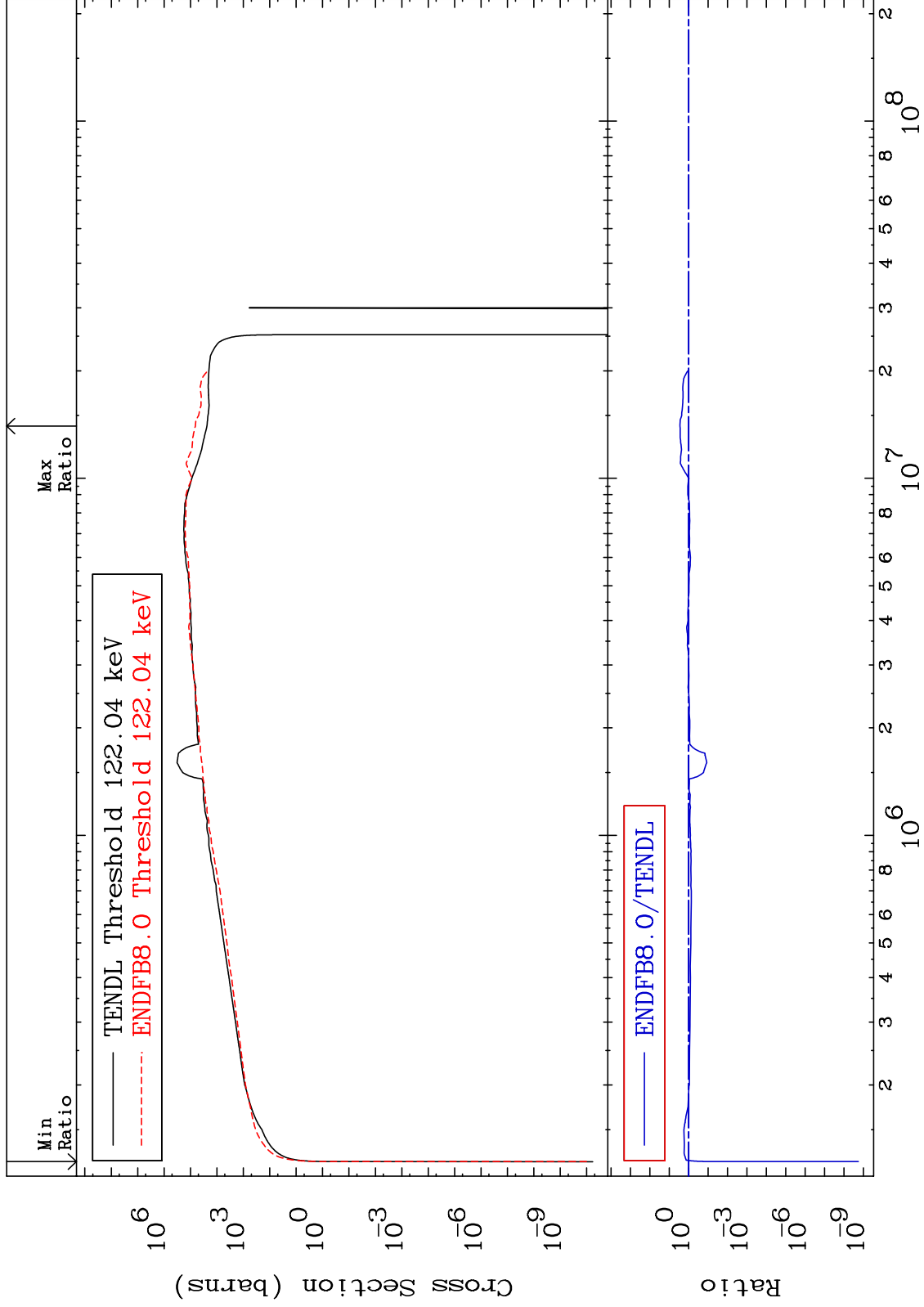
62-Sm-147
-125.0 To 30.33 %



MAT 6234

Kerma inelastic (mt51-91)
Cross Section

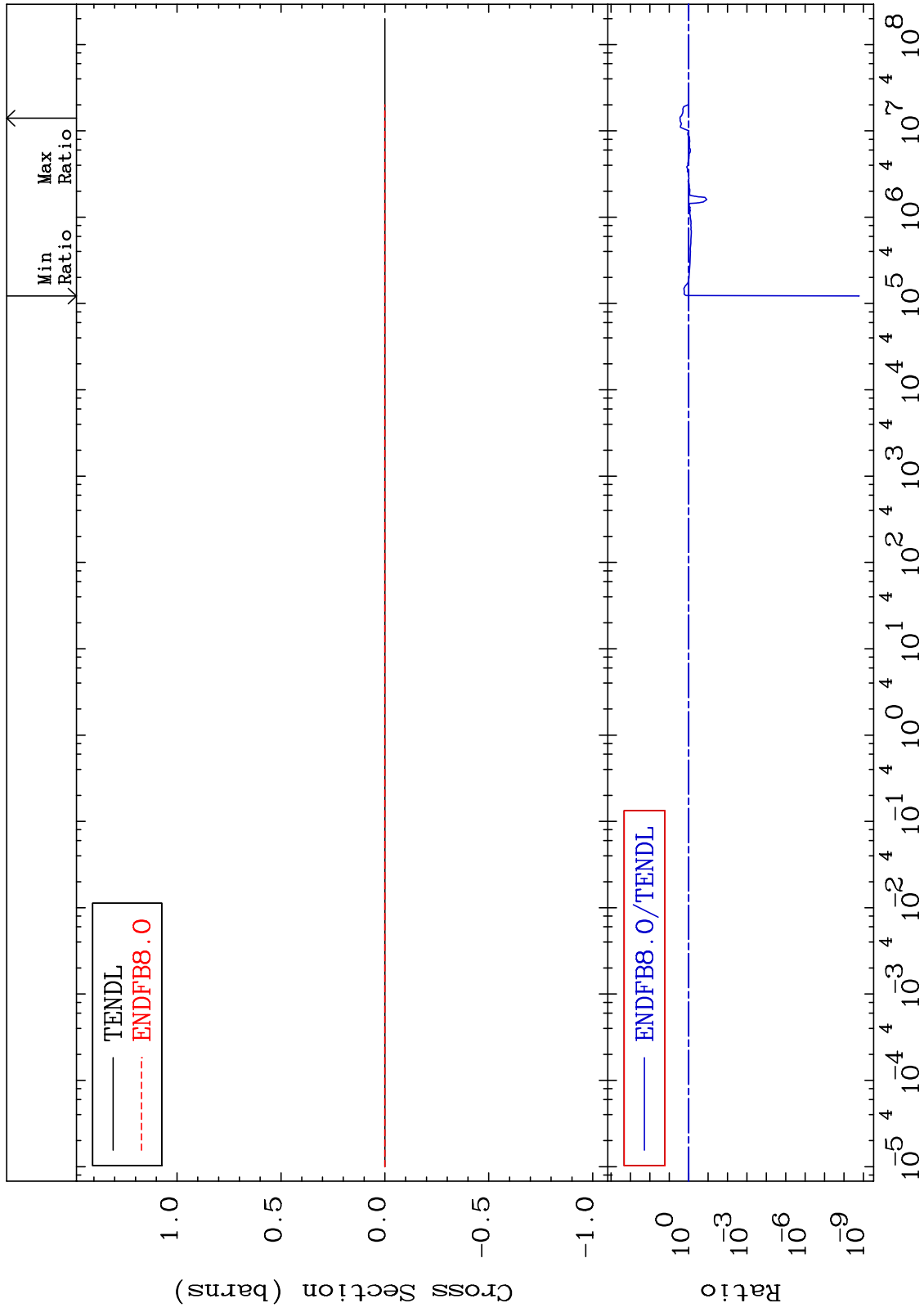
62-Sm-147
-100.0 To 176.9 %



MAT 6234

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

62-Sm-147
-100.0 To 176.9 %



50

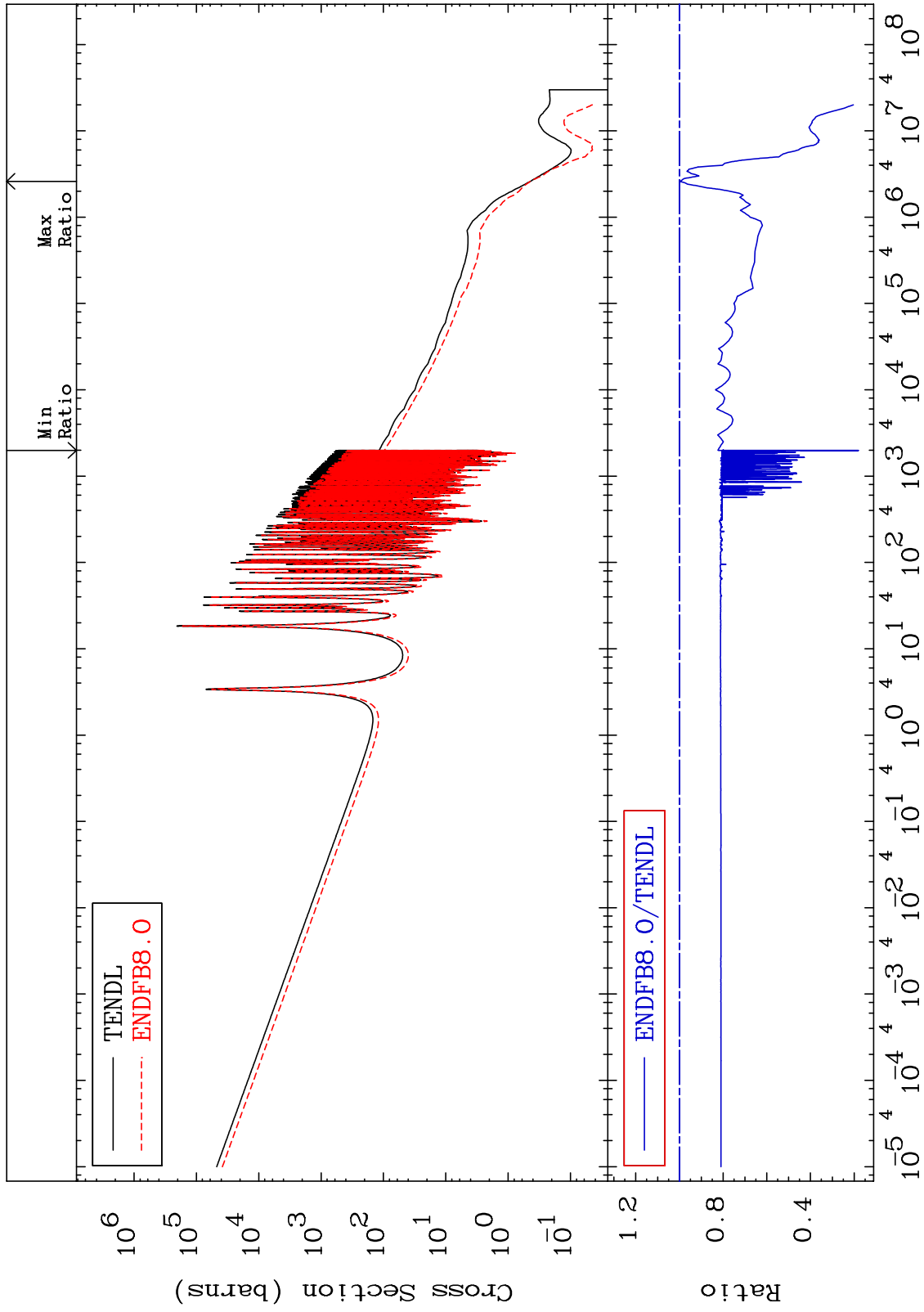
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma capture (mt102)
Cross Section

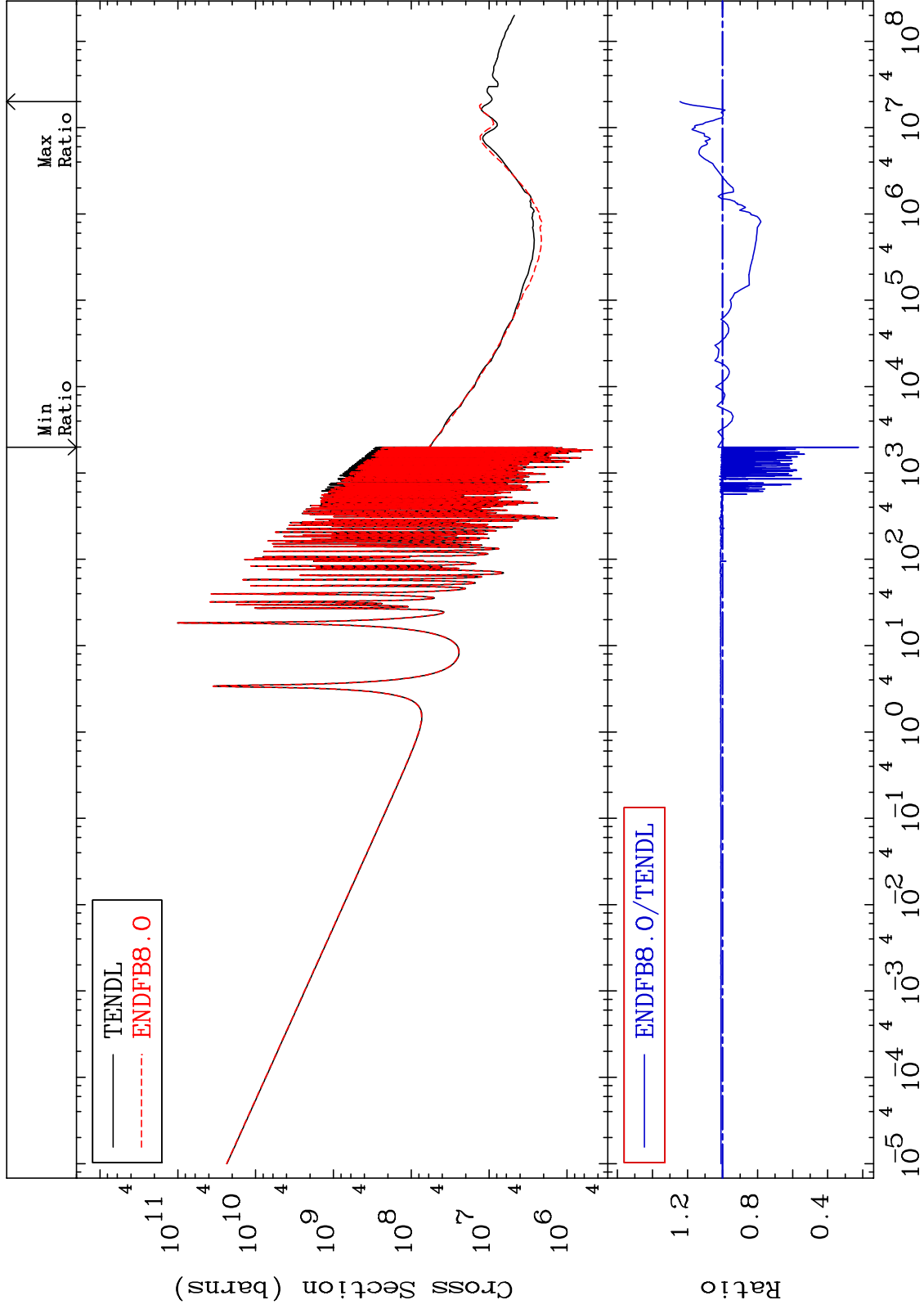
62-Sm-147
-81.96 To -0.266%



MAT 6234

Total photon (eV-barns)
Cross Section

62-Sm-147
-77.53 To 24.26 %



52

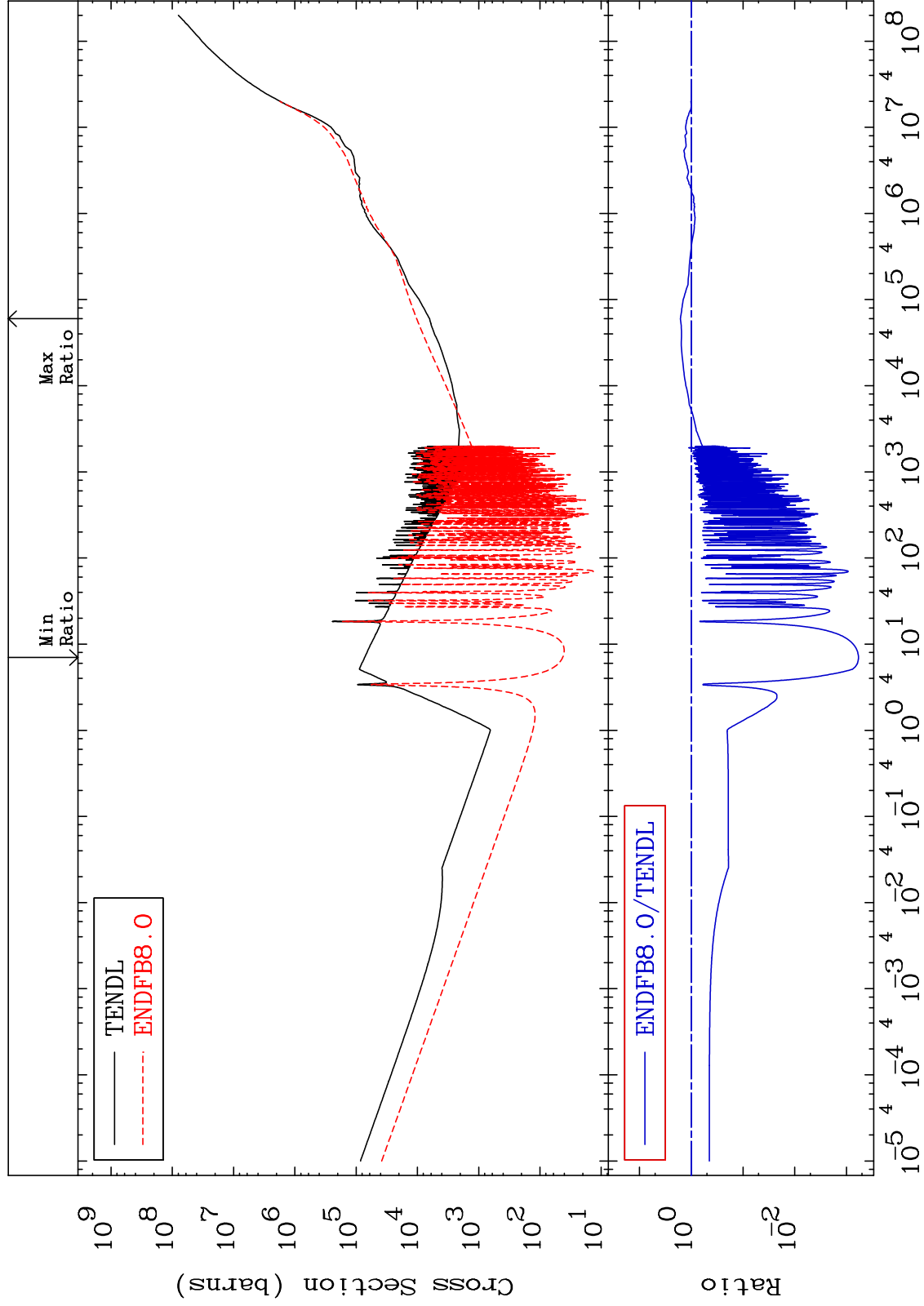
Incident Energy (eV)

62-Sm-147

MAT 6234

Total kinematic kerma (high limit)
Cross Section

62-Sm-147
-99.94 To 61.96 %



53

Incident Energy (eV)

62-Sm-147

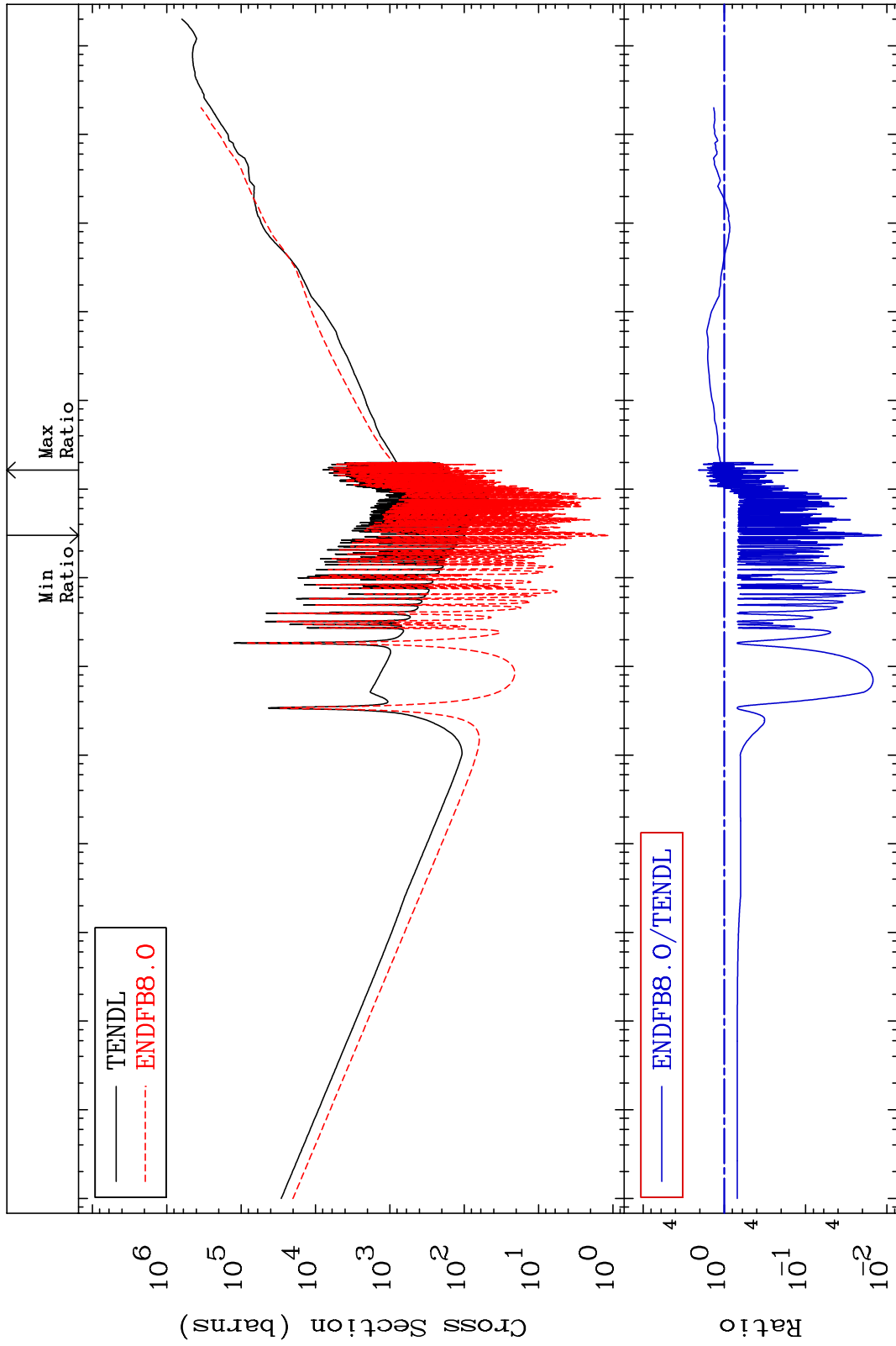
MAT 6234

Dpa total (eV-barns)

62-Sm-147

-98.84 To 108.9 %

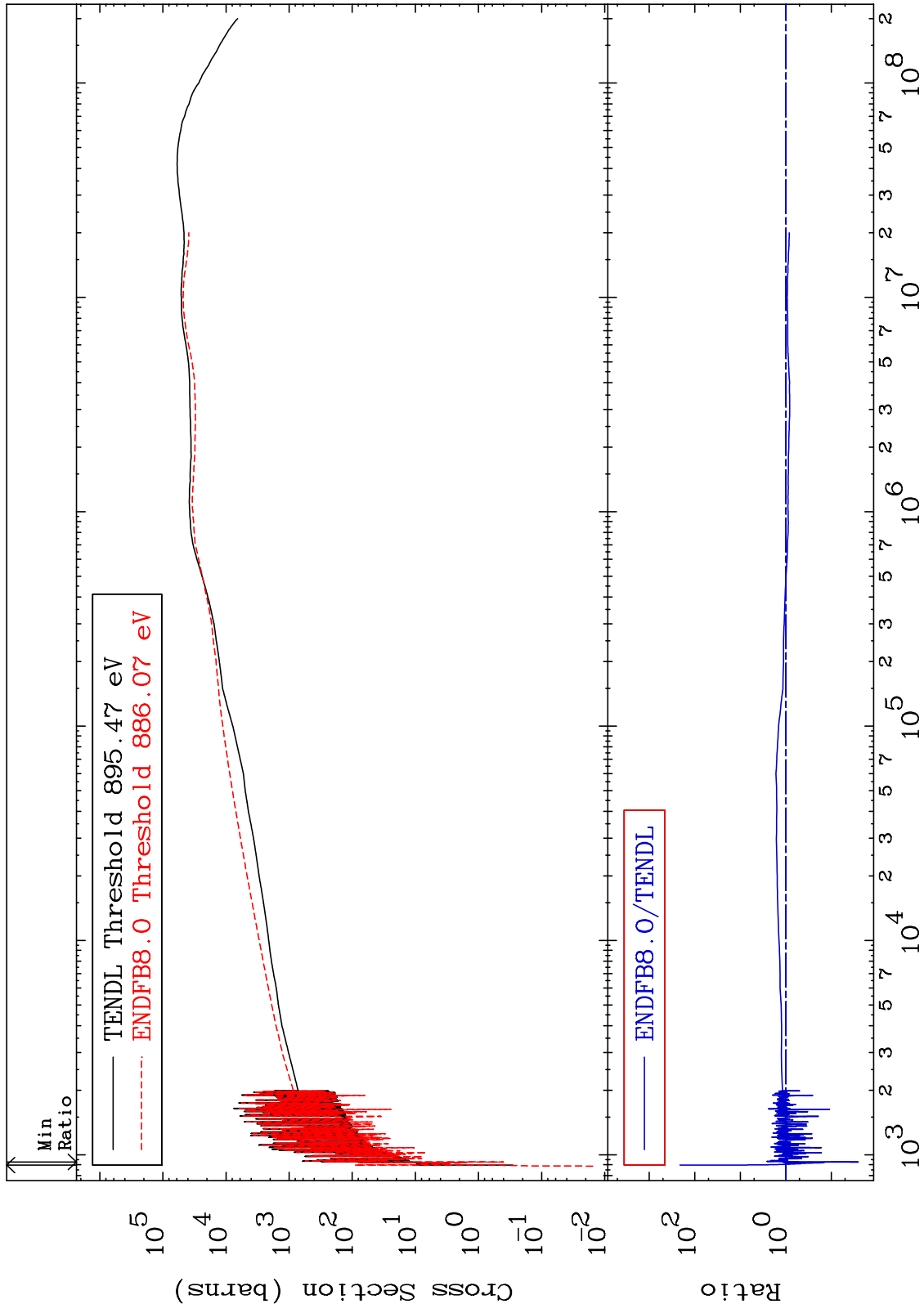
Cross Section



MAT 6234

Dpa elastic (mt2)
Cross Section

62-Sm-147
-97.44 To 9999. %



55

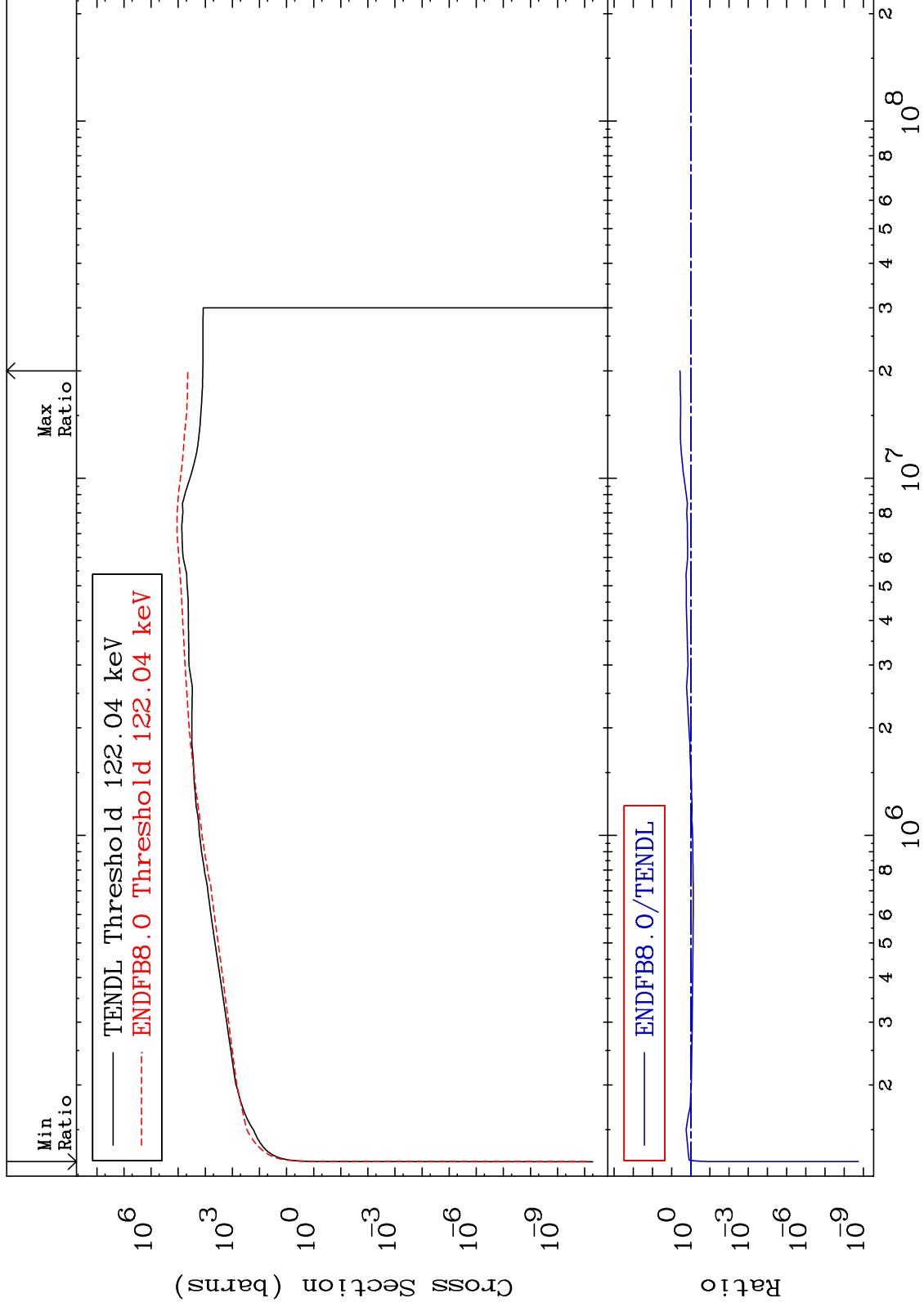
Incident Energy (eV)

62-Sm-147

MAT 6234

Dpa inelastic (mt51-91)
Cross Section

62-Sm-147
-100.0 To 262.8 %



MAT 6234

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-147
-98.84 To 1241. %

