

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

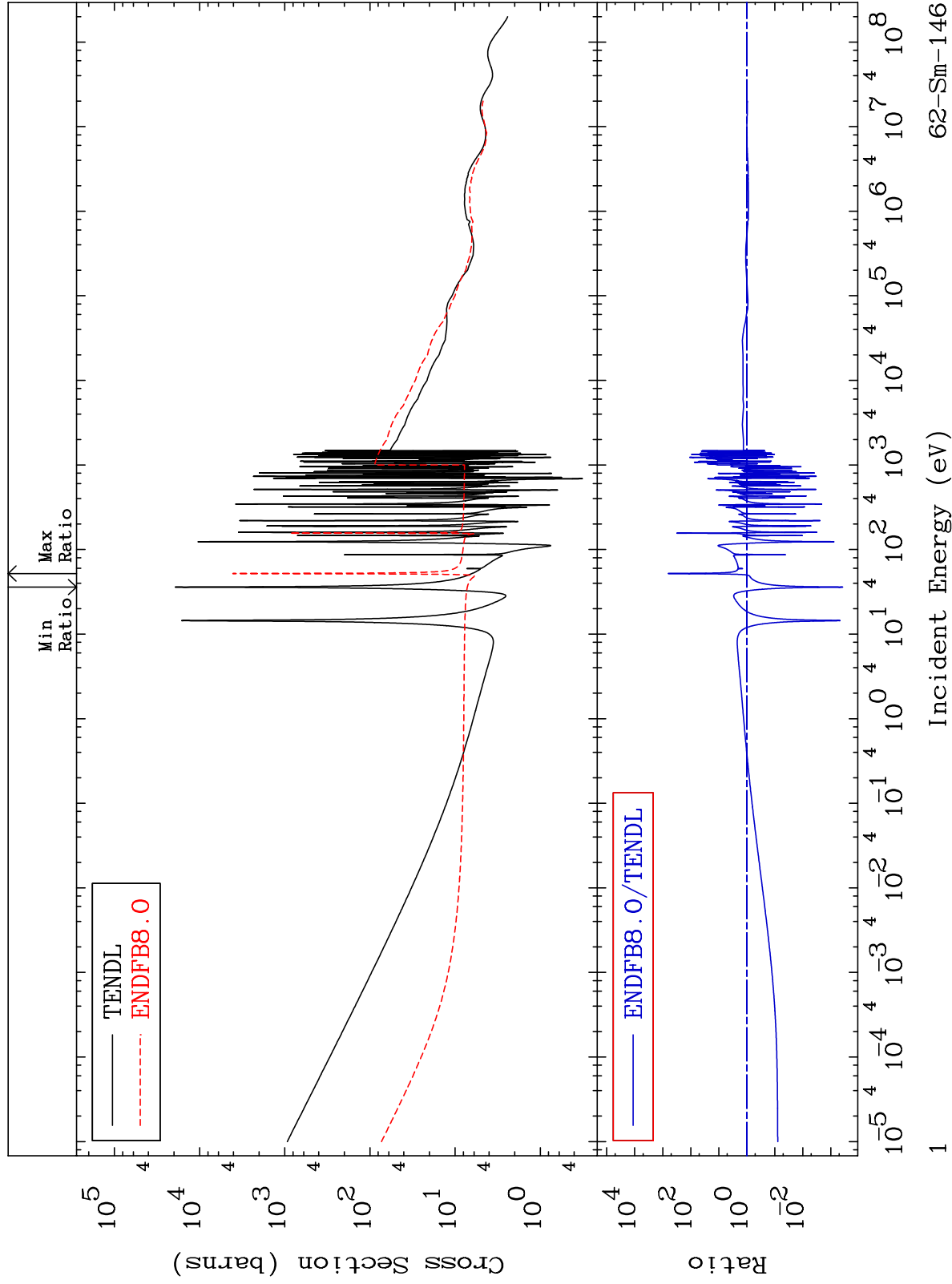
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6231

Total
Cross Section

62-Sm-146
-99.96 To 9999. %



62-Sm-146

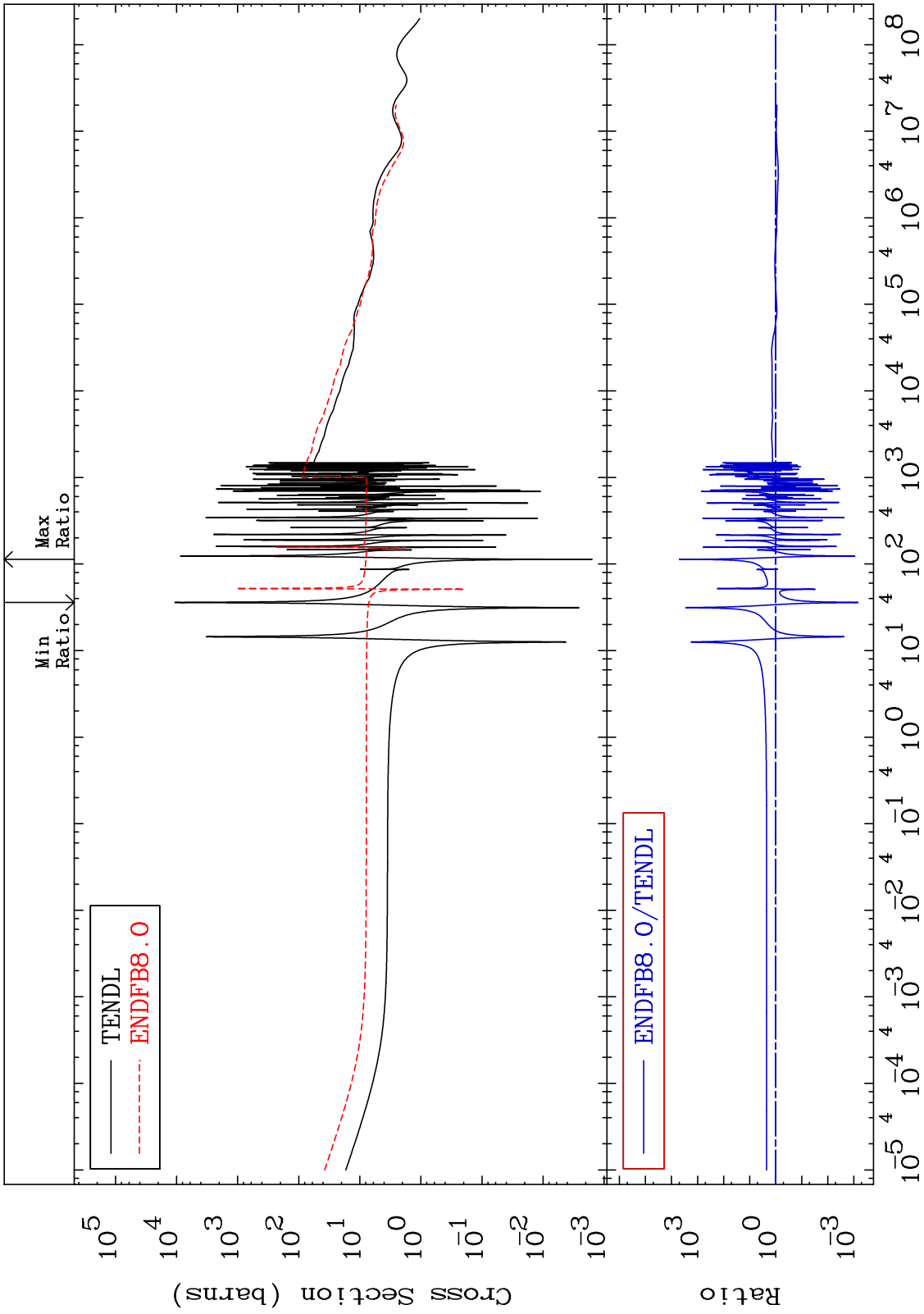
MAT 6231

Elastic

62-Sm-146

Cross Section

-99.93 To 9999. %



2

Incident Energy (eV)

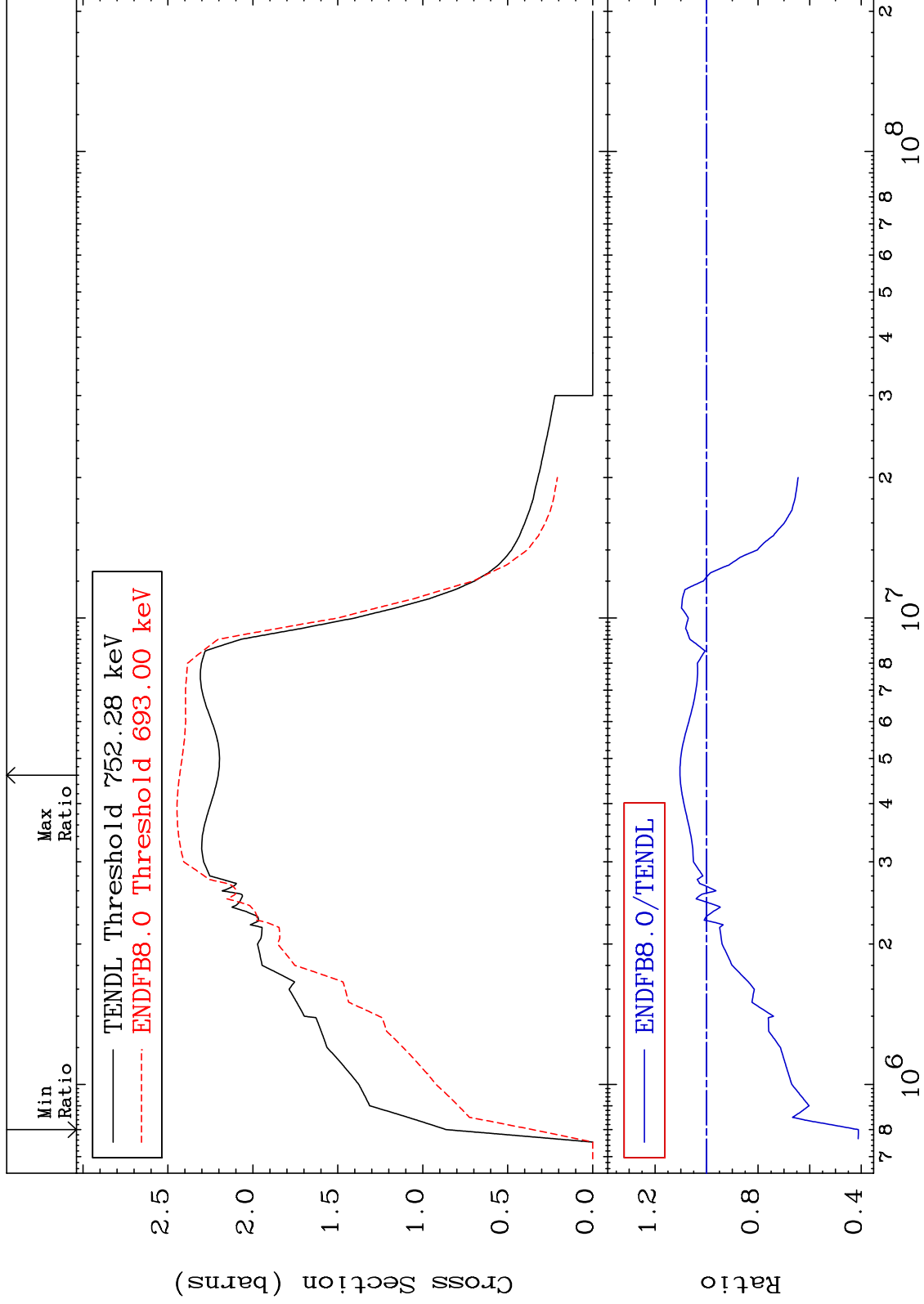
62-Sm-146

MAT 6231

Inelastic
Cross Section

62-Sm-146

-58.89 To 10.29 %



62-Sm-146

Incident Energy (eV)

3

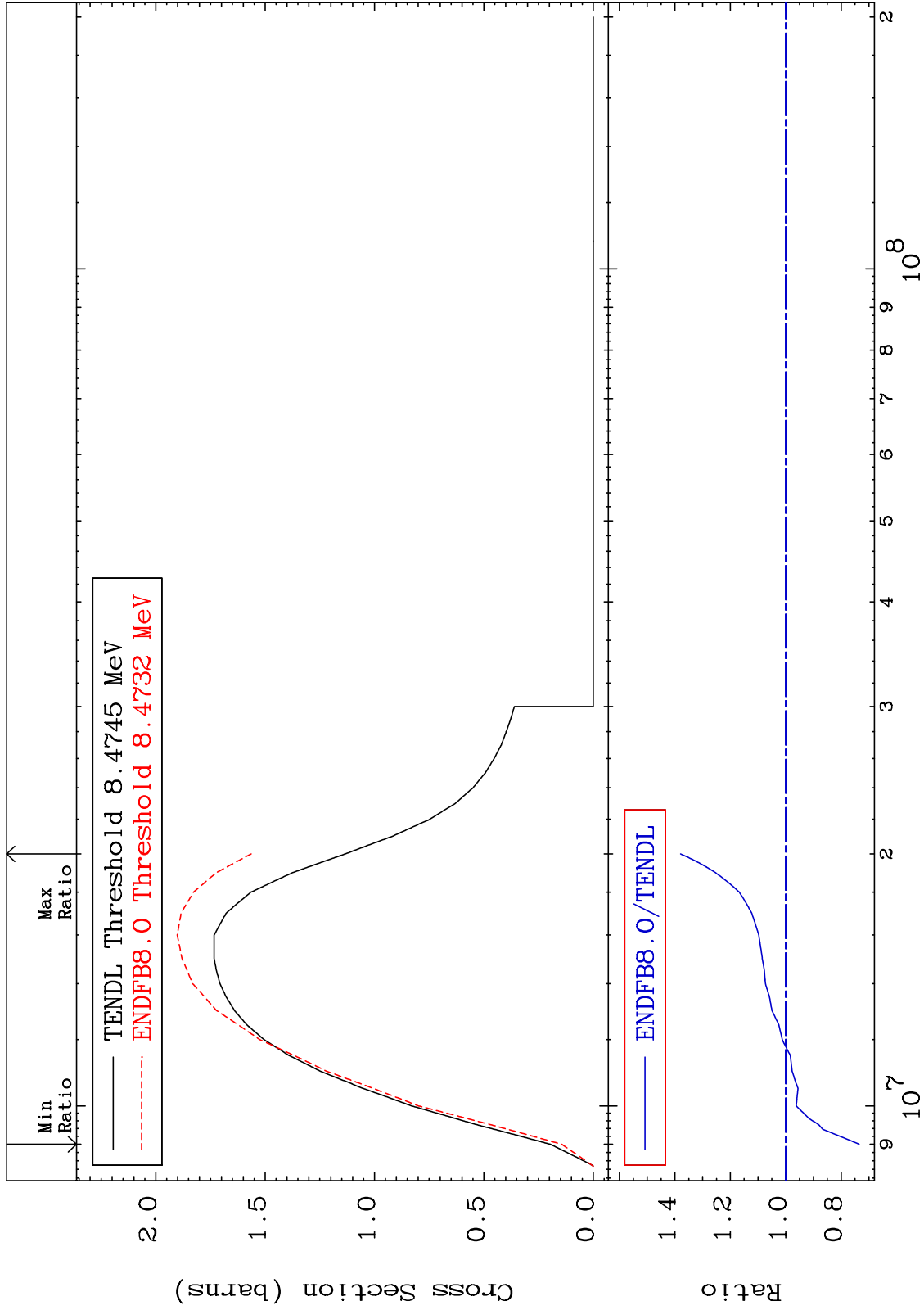
MAT 6231

(n,2n)

62-Sm-146

Cross Section

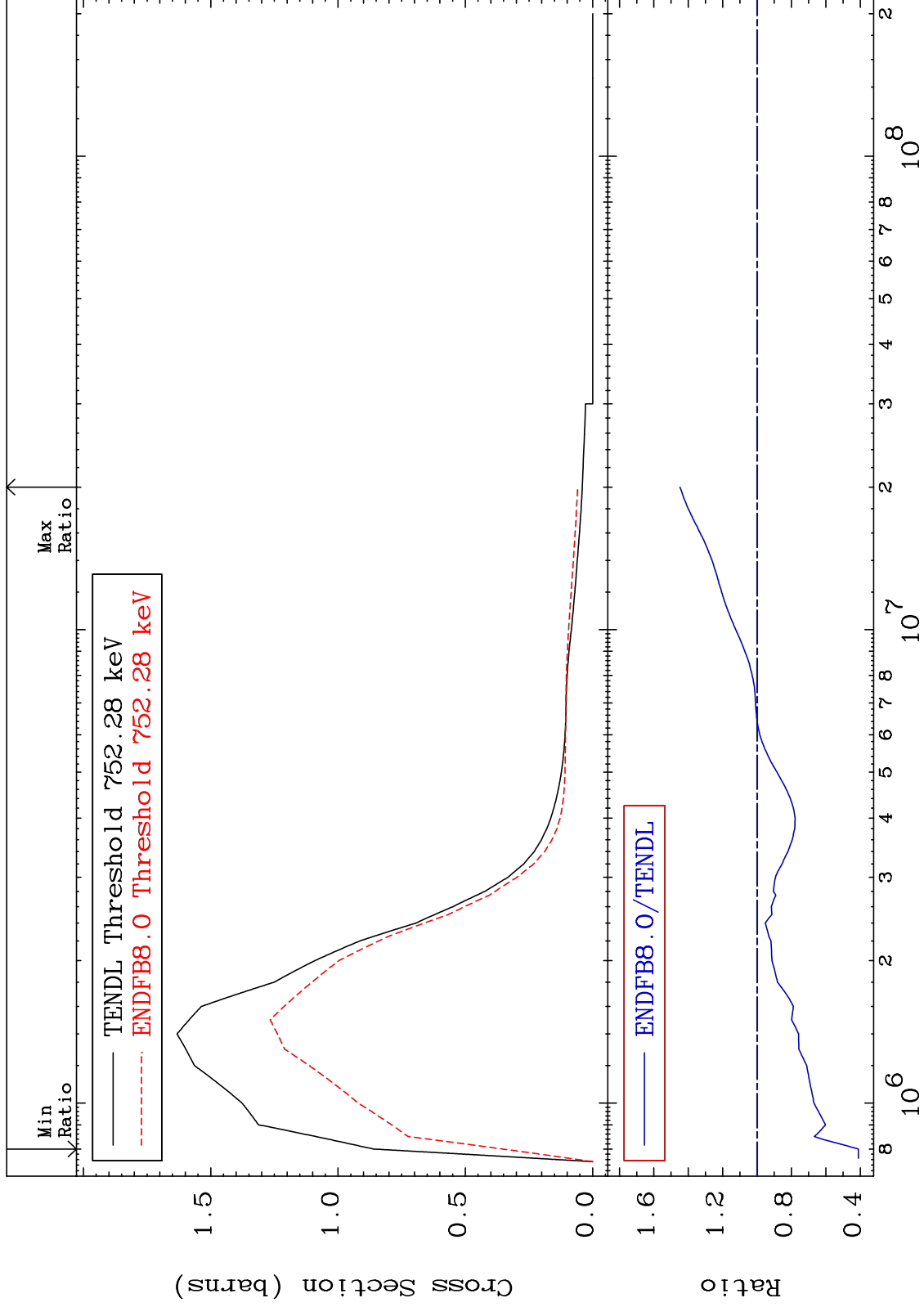
-26.50 To 37.94 %



MAT 6231

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

62-Sm-146
-58.93 To 44.79 %



5

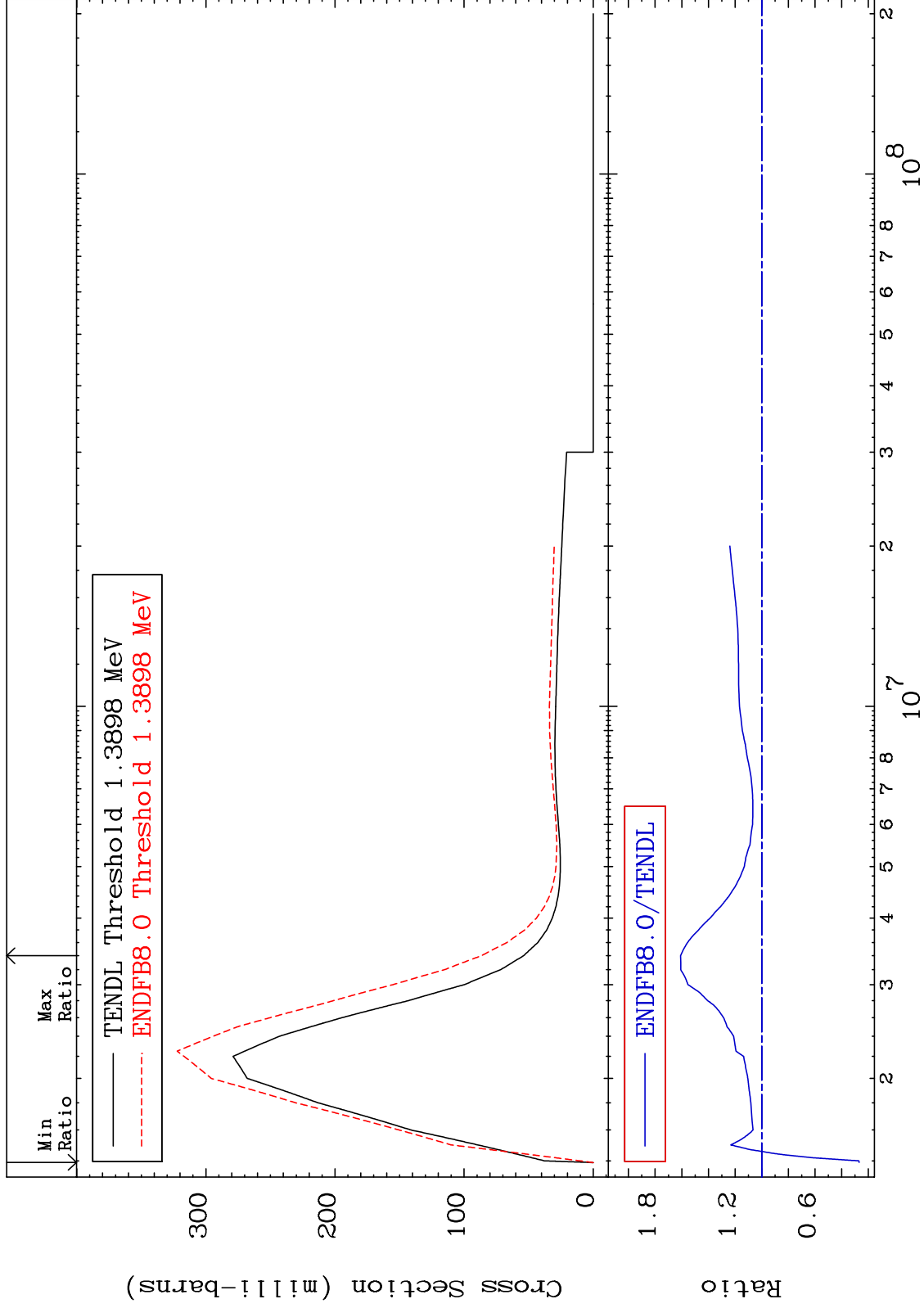
Incident Energy (eV)

62-Sm-146

MAT 6231

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

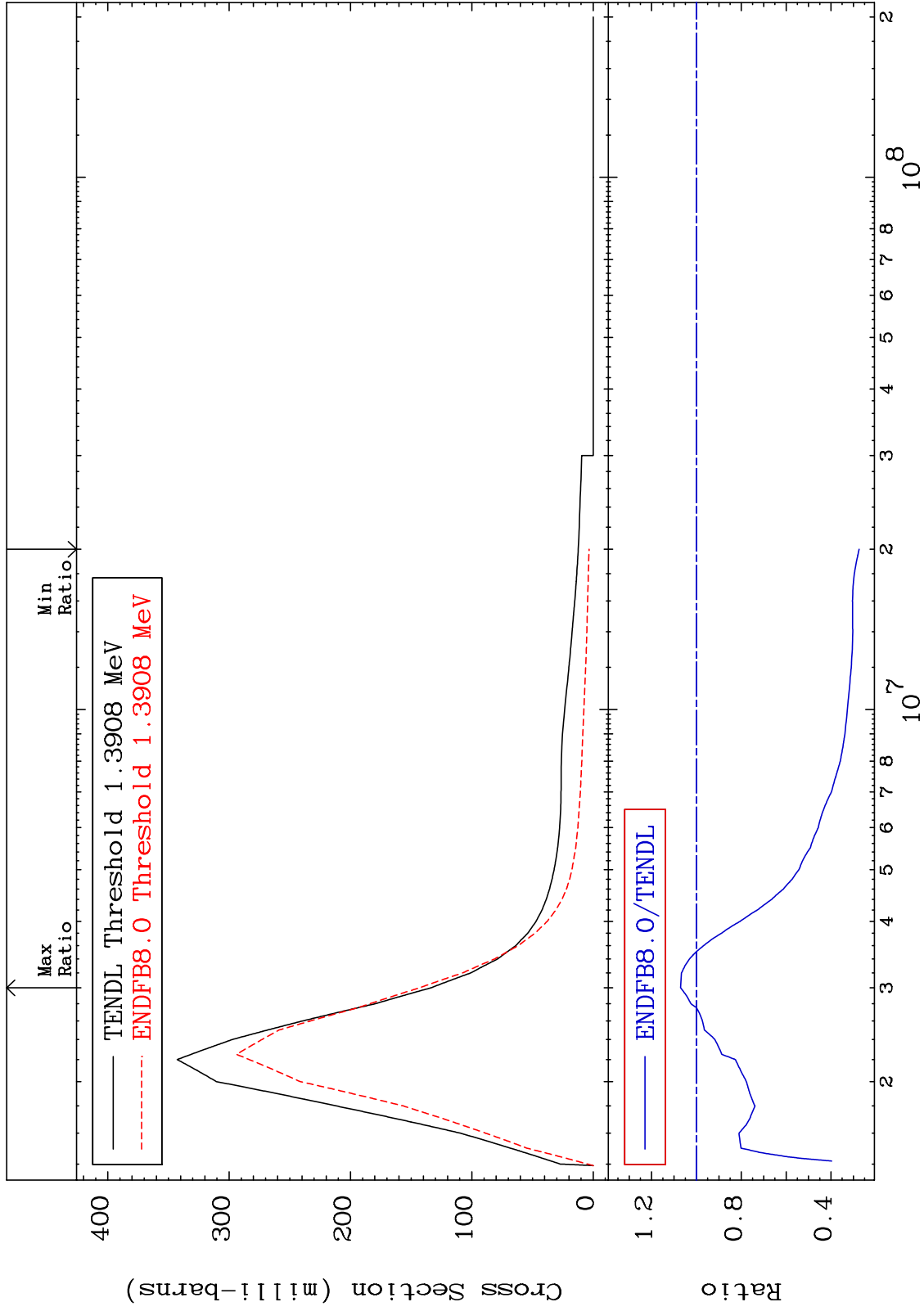
62-Sm-146
-73.12 To 60.86 %



MAT 6231

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

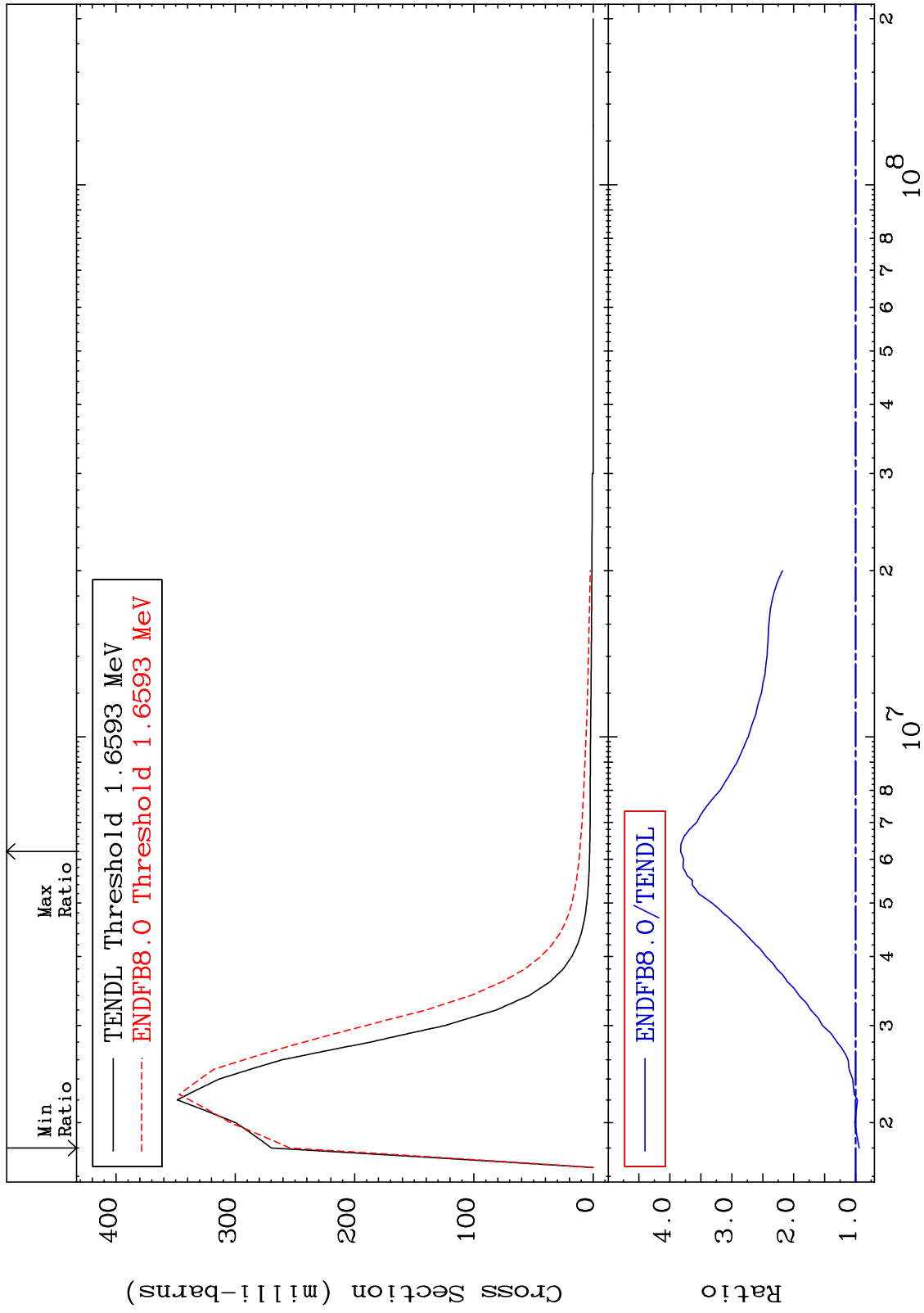
62-Sm-146
-72.58 To 7.066 %



MAT 6231

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

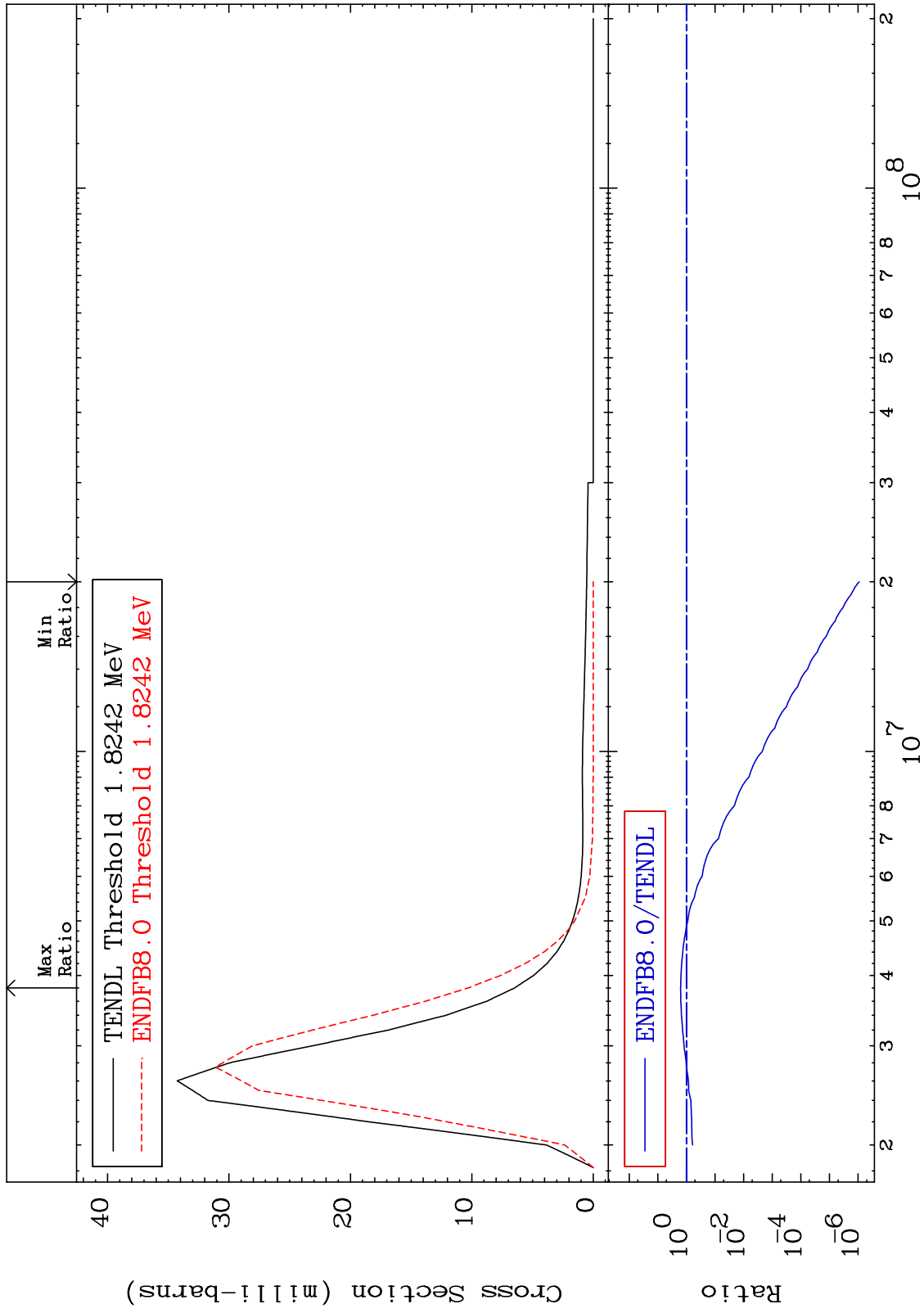
62-Sm-146
-5.713 To 282.6 %



MAT 6231

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

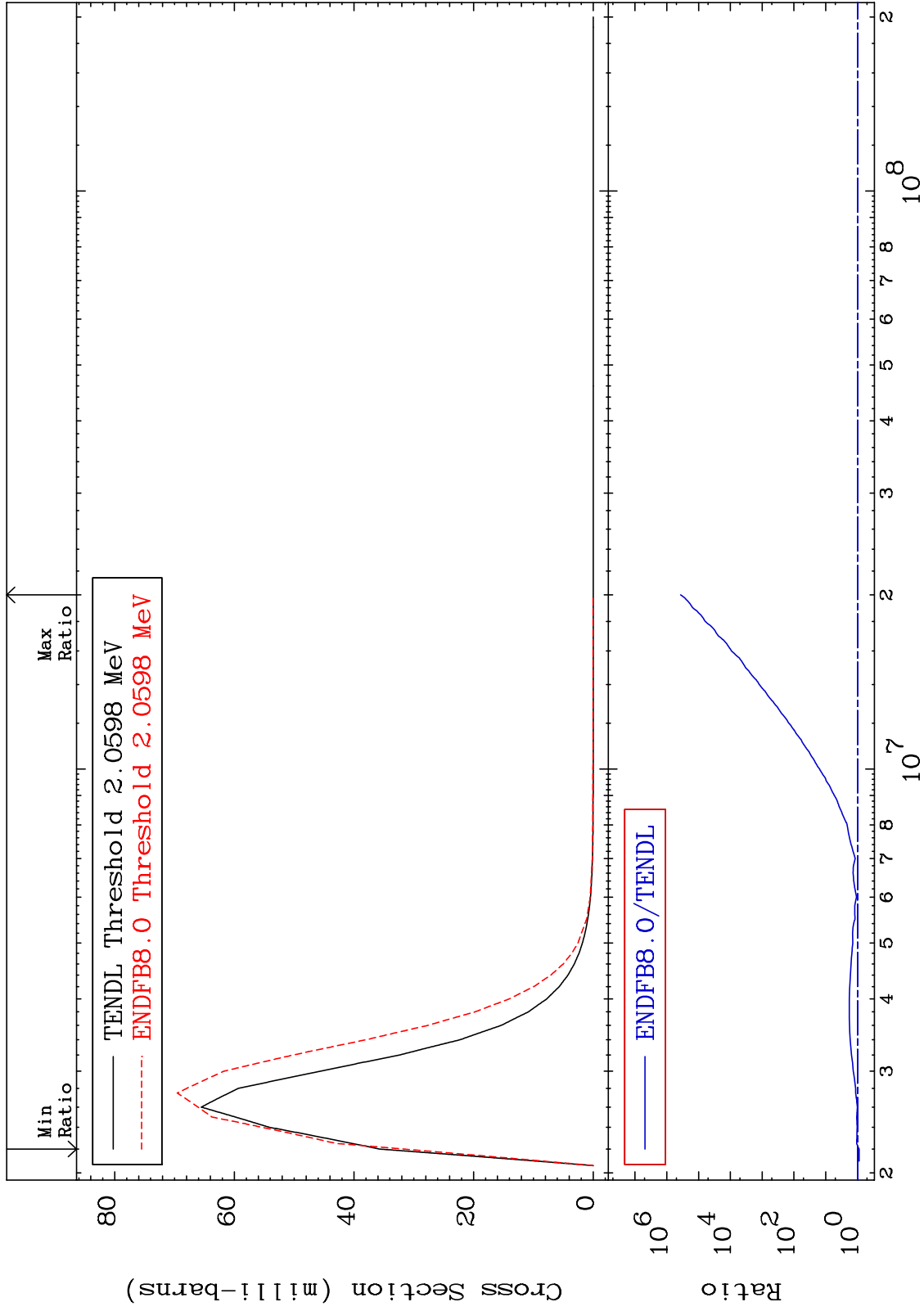
62-Sm-146
-100.0 To 59.22 %



MAT 6231

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

62-Sm-146
-11.34 To 9999. %



10

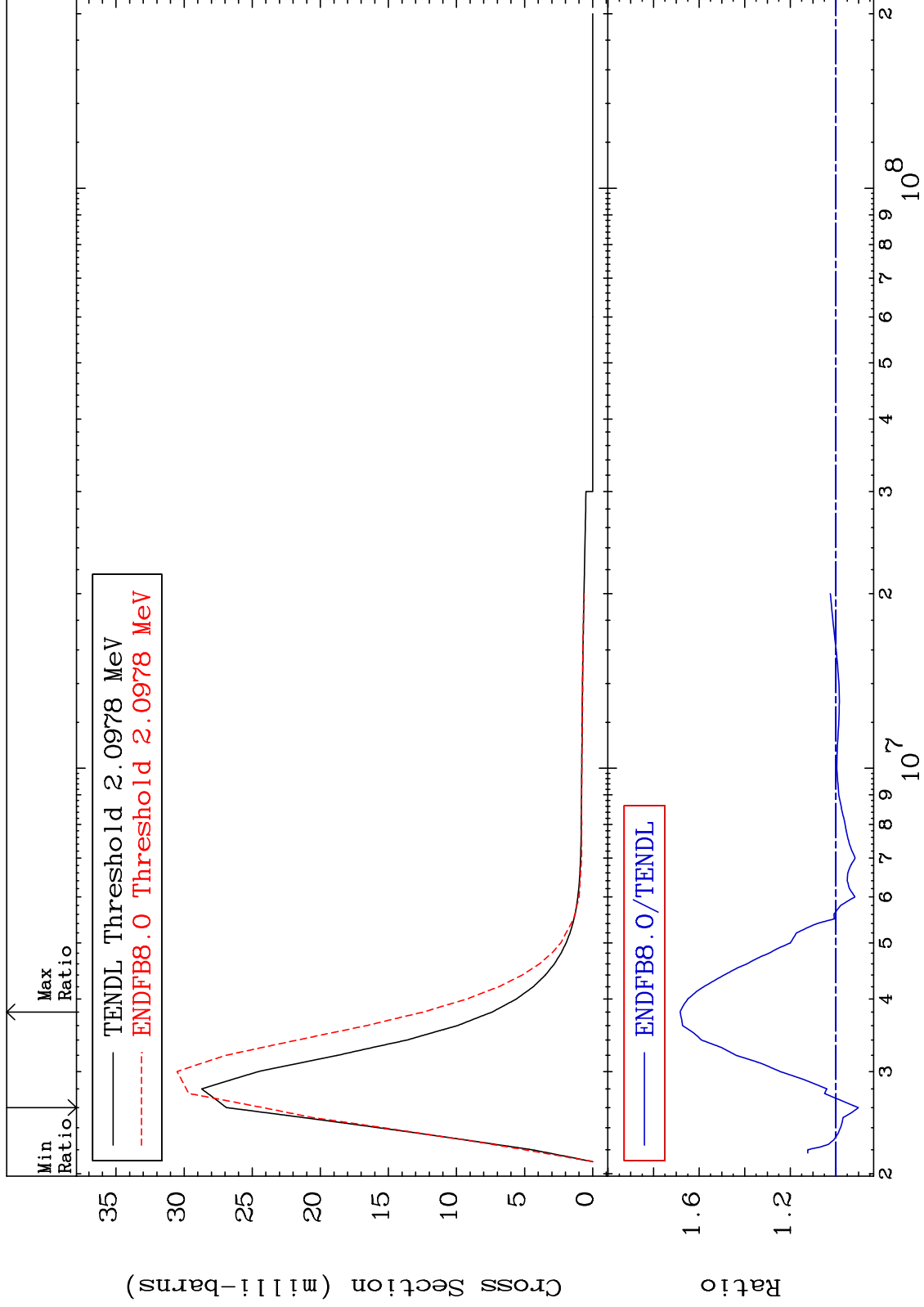
Incident Energy (eV)

62-Sm-146

MAT 6231

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

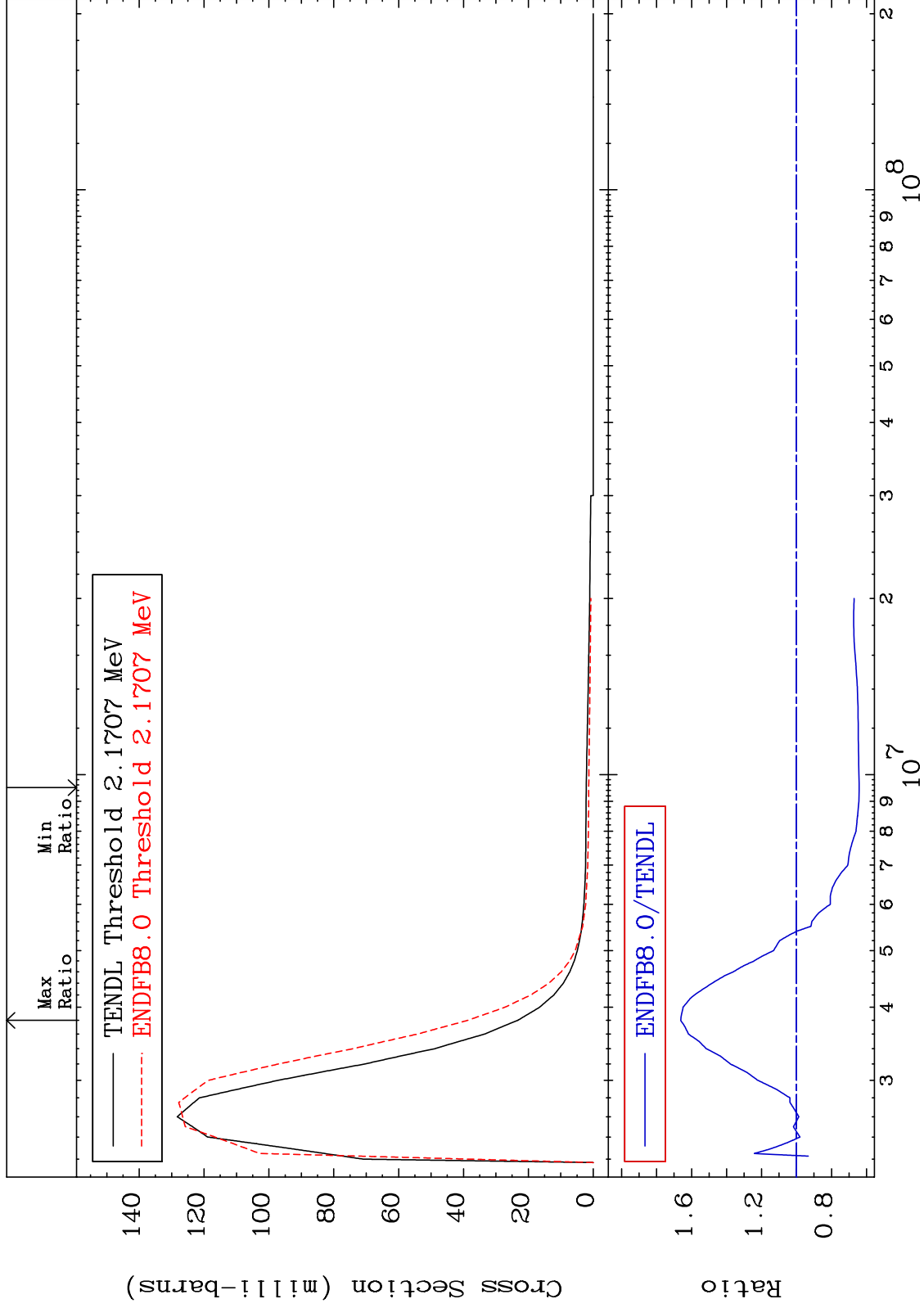
62-Sm-146
-9.924 To 68.37 %



MAT 6231

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

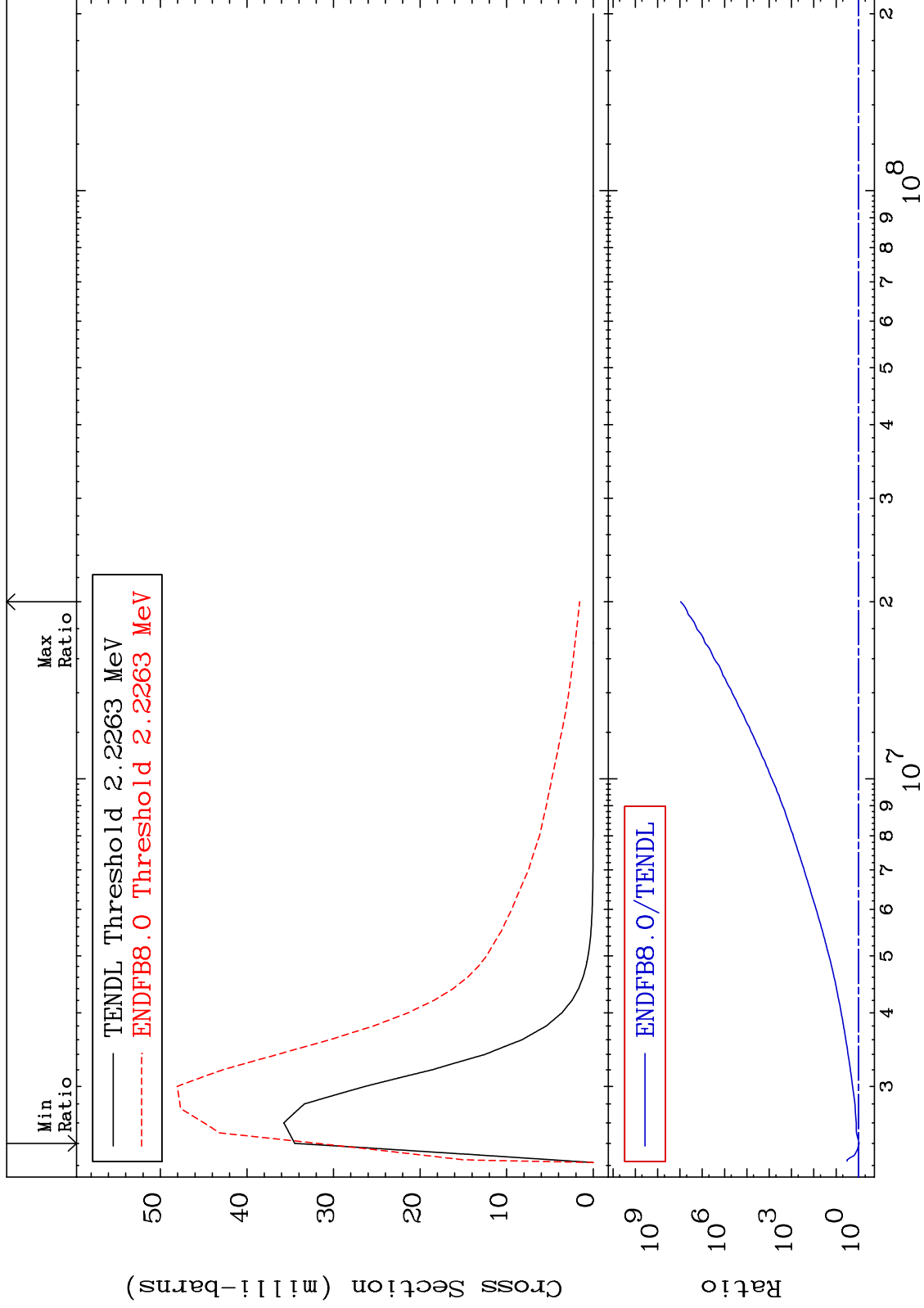
62-Sm-146
-35.80 To 66.27 %



MAT 6231

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

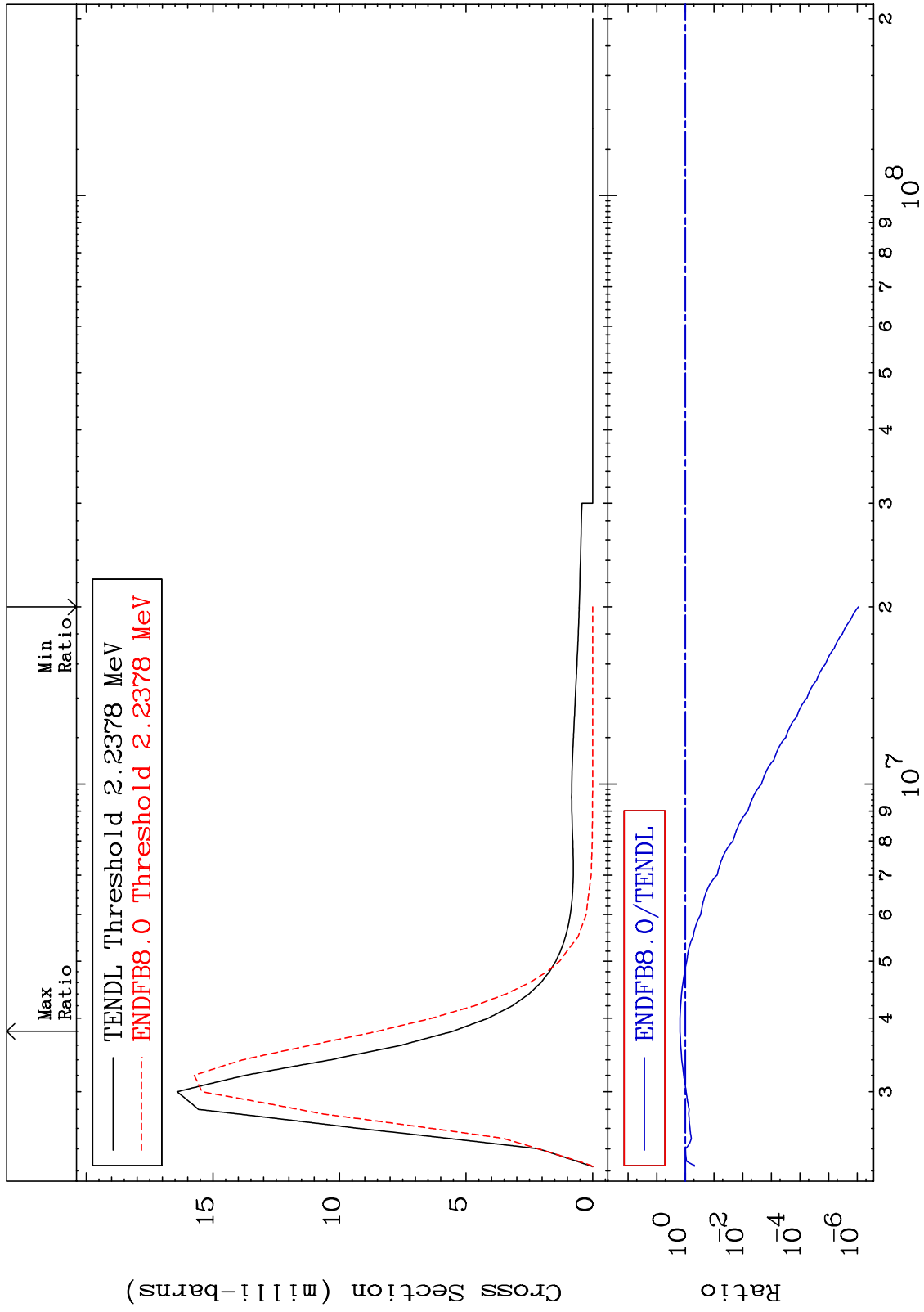
62-Sm-146
-7.540 To 9999. %



MAT 6231

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

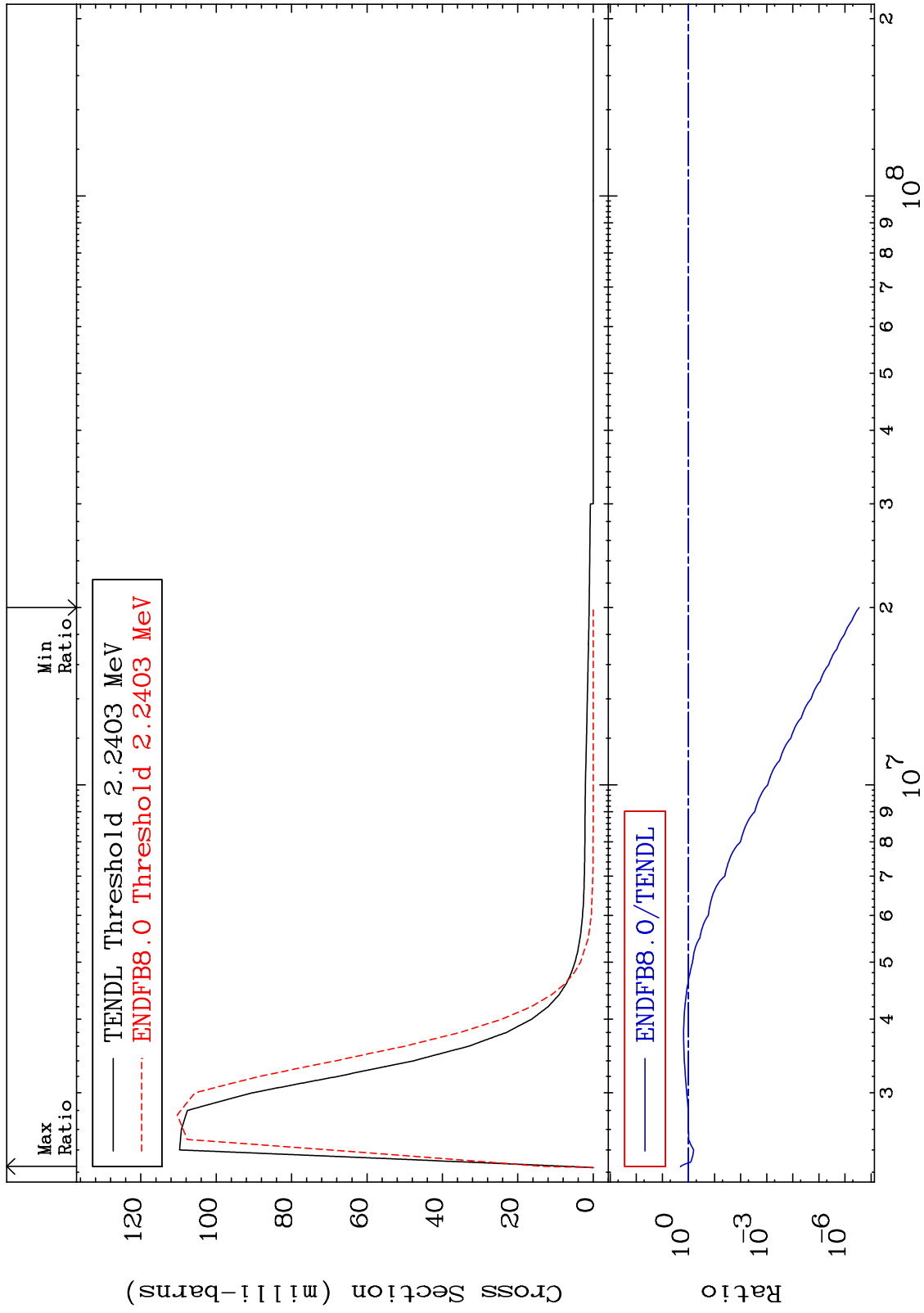
62-Sm-146
-100.0 To 53.88 %



MAT 6231

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

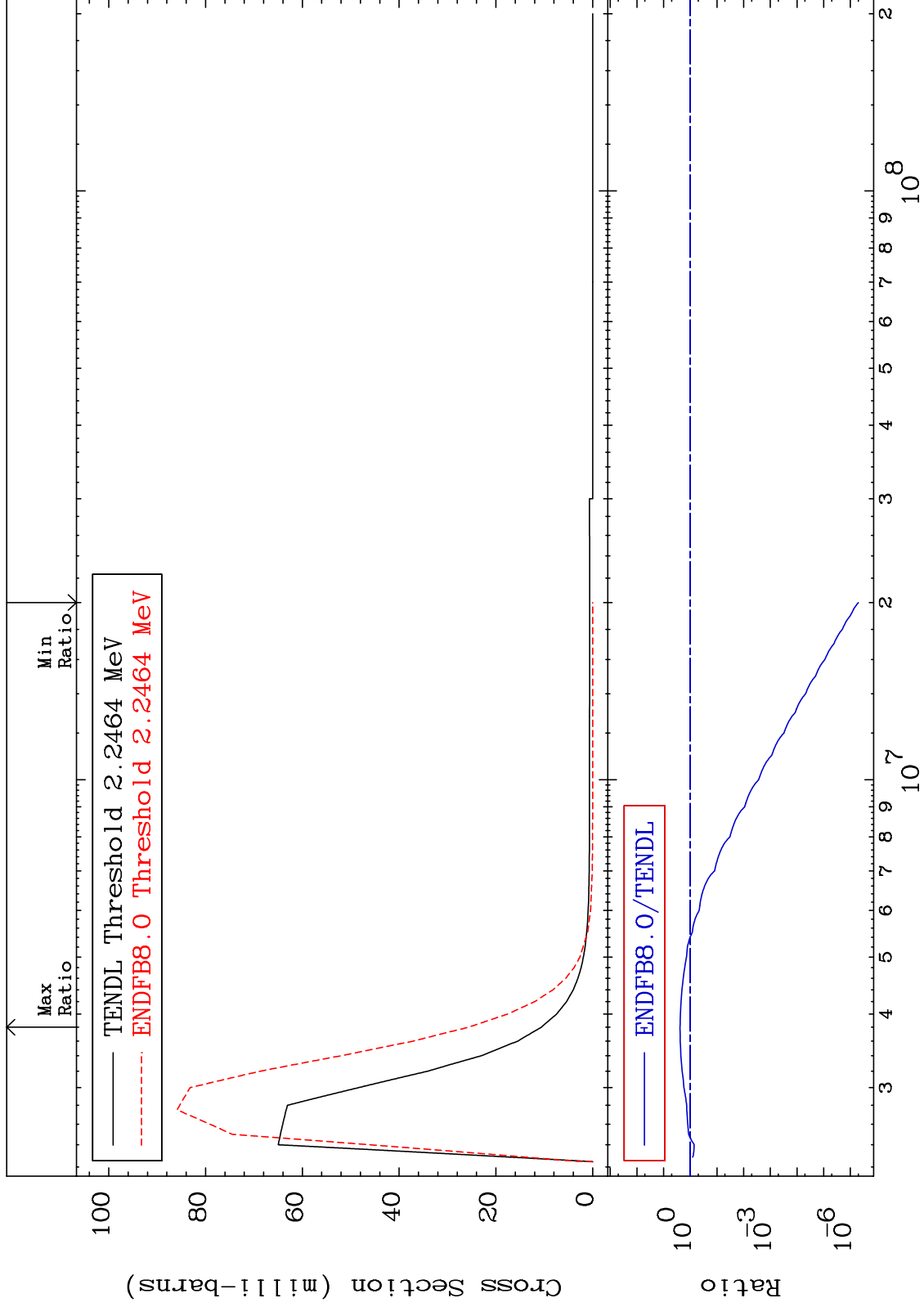
62-Sm-146
-100.0 To 99.38 %



MAT 6231

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

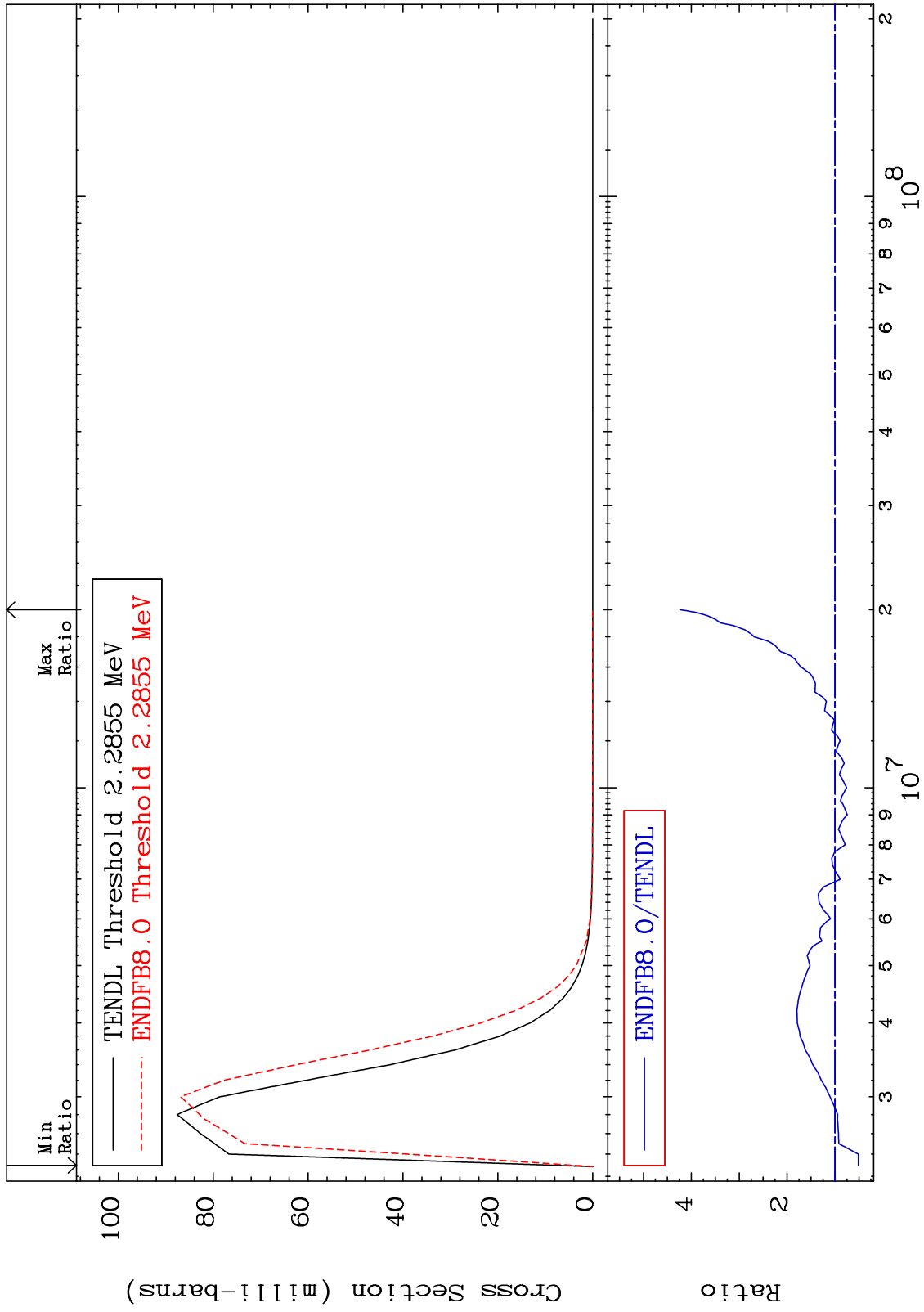
62-Sm-146
-100.0 To 141.8 %



MAT 6231

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

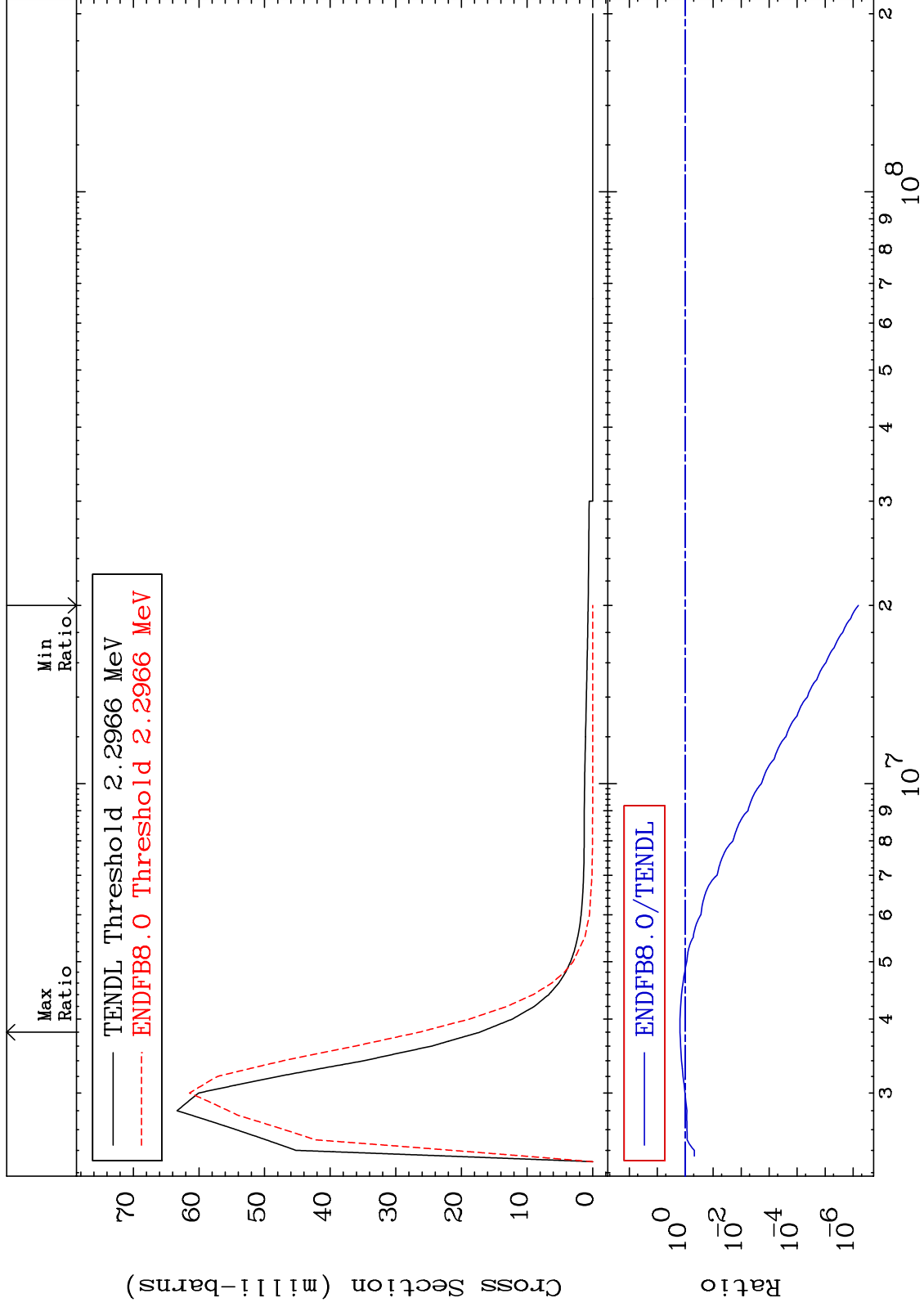
62-Sm-146
-48.95 To 323.6 %



MAT 6231

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

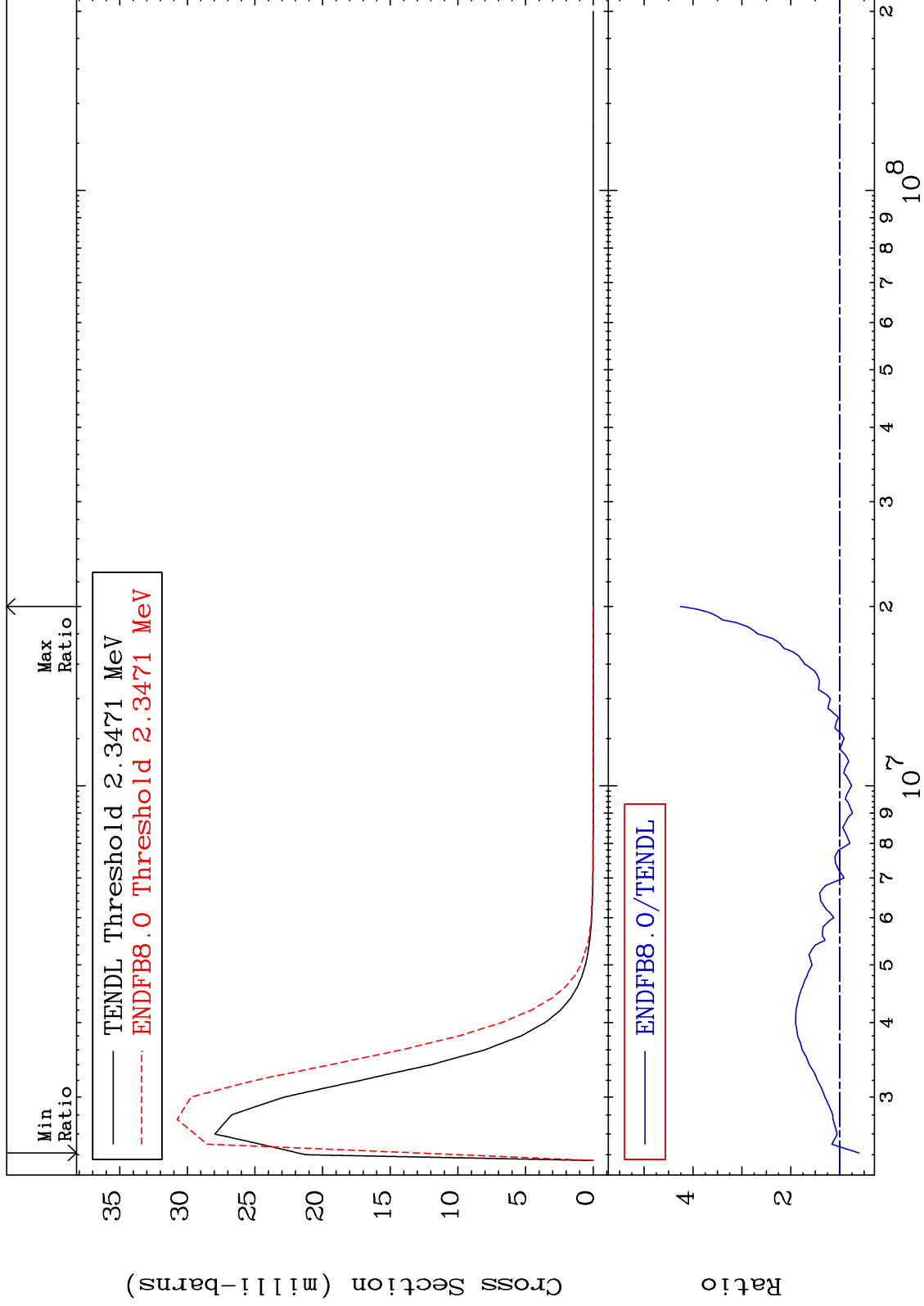
62-Sm-146
-100.0 To 53.55 %



MAT 6231

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

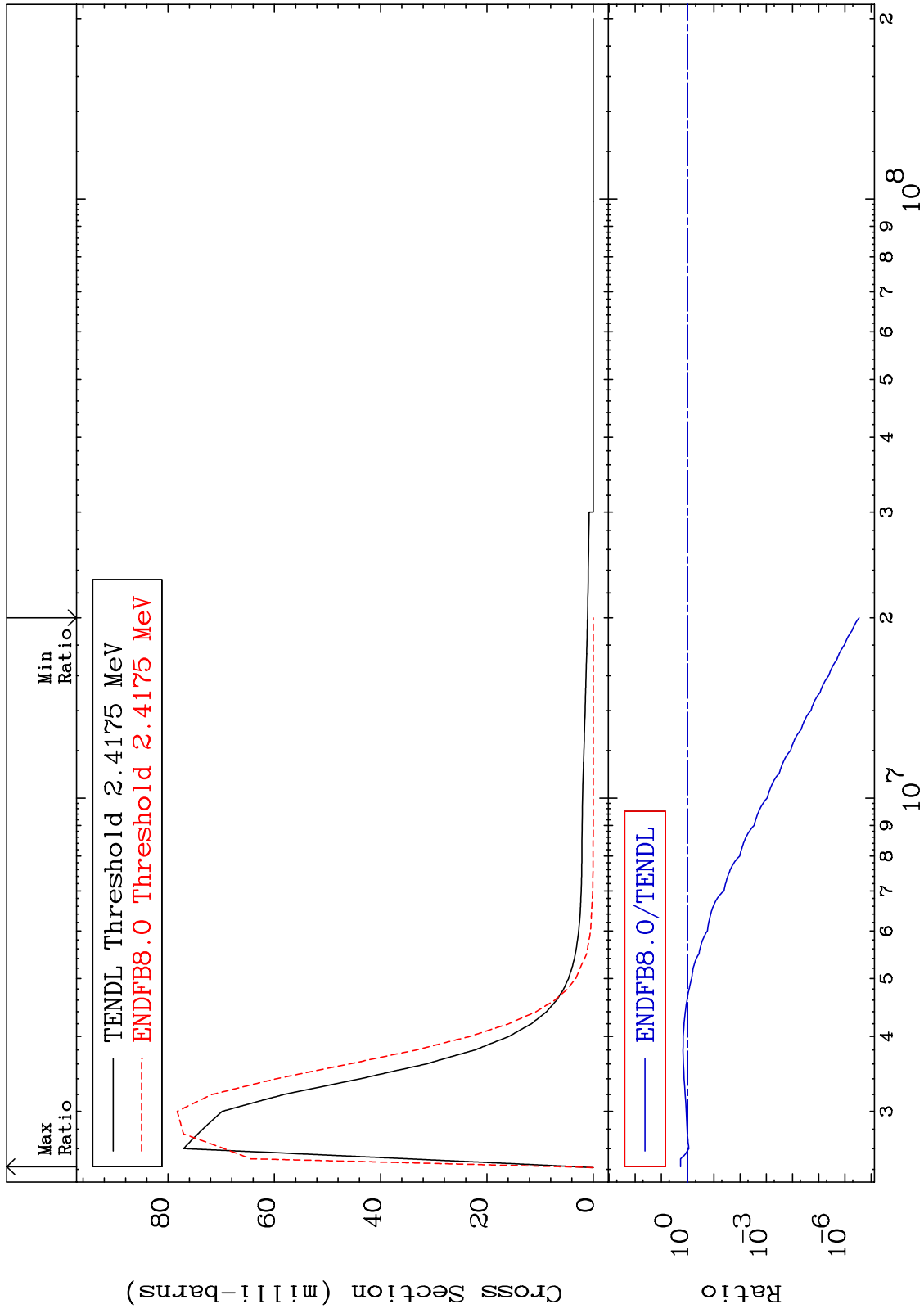
62-Sm-146
-39.79 To 325.4 %



MAT 6231

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

62-Sm-146
-100.0 To 84.92 %



20

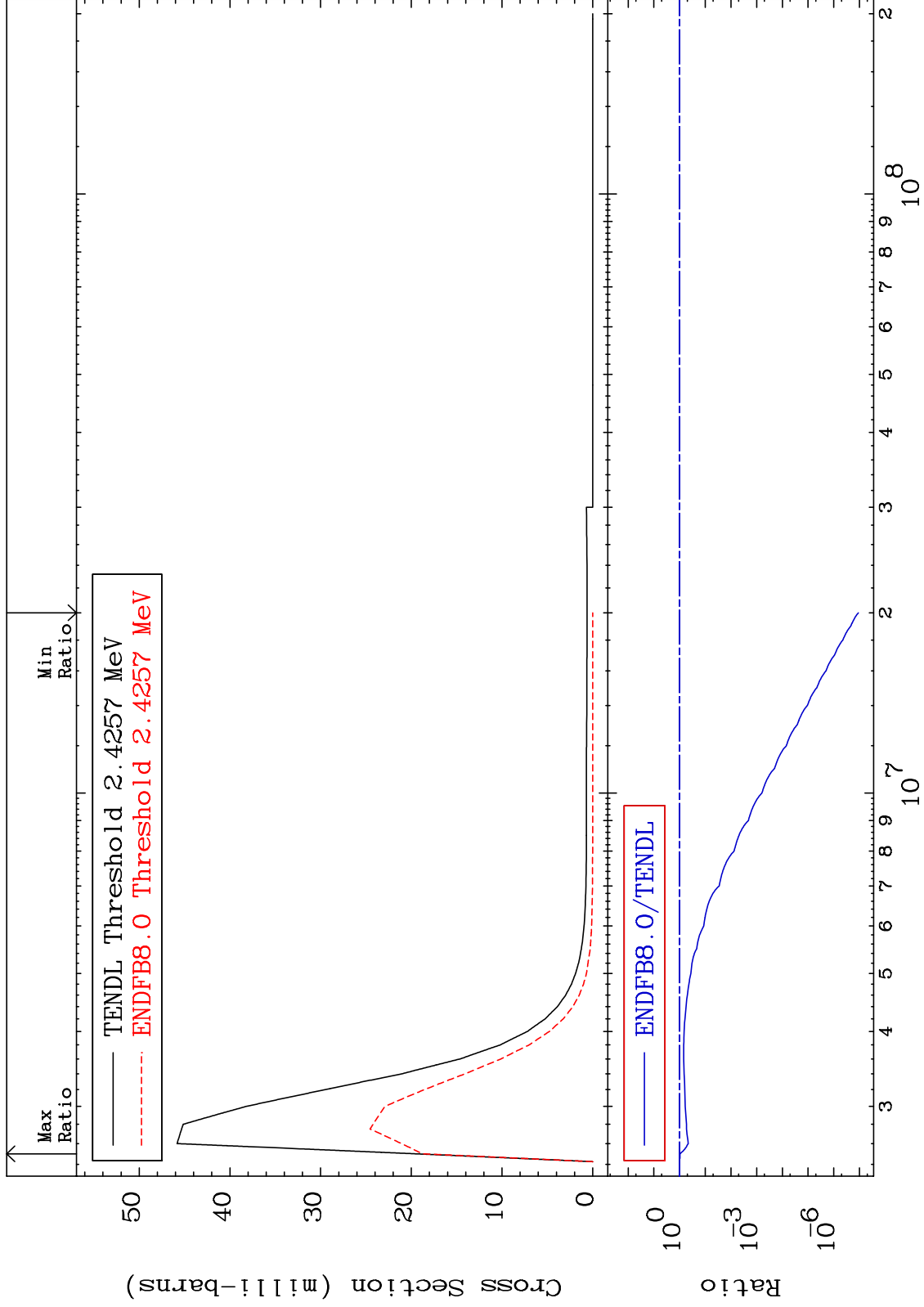
Incident Energy (eV)

62-Sm-146

MAT 6231

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

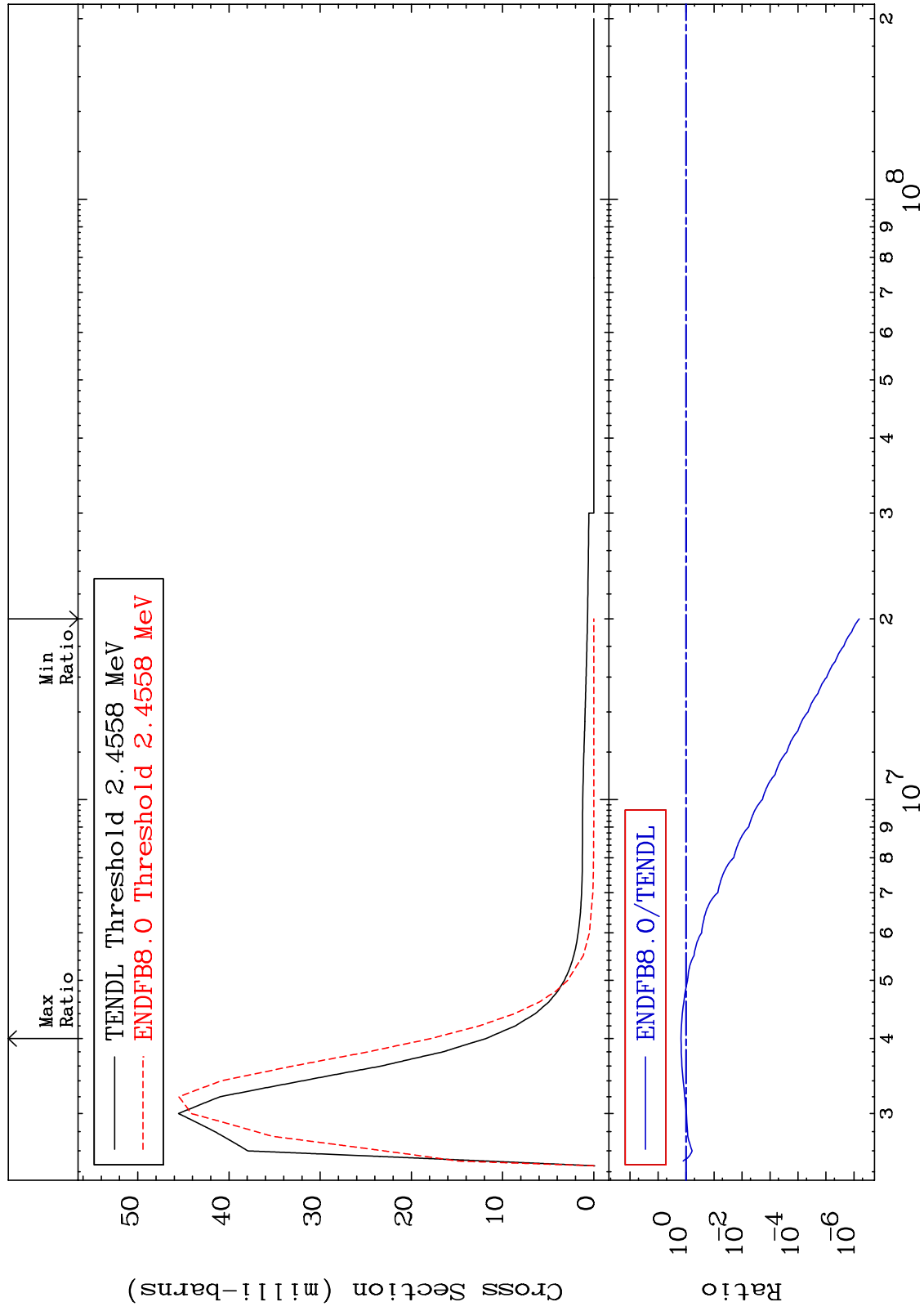
62-Sm-146
-100.0 To -3.919%



MAT 6231

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

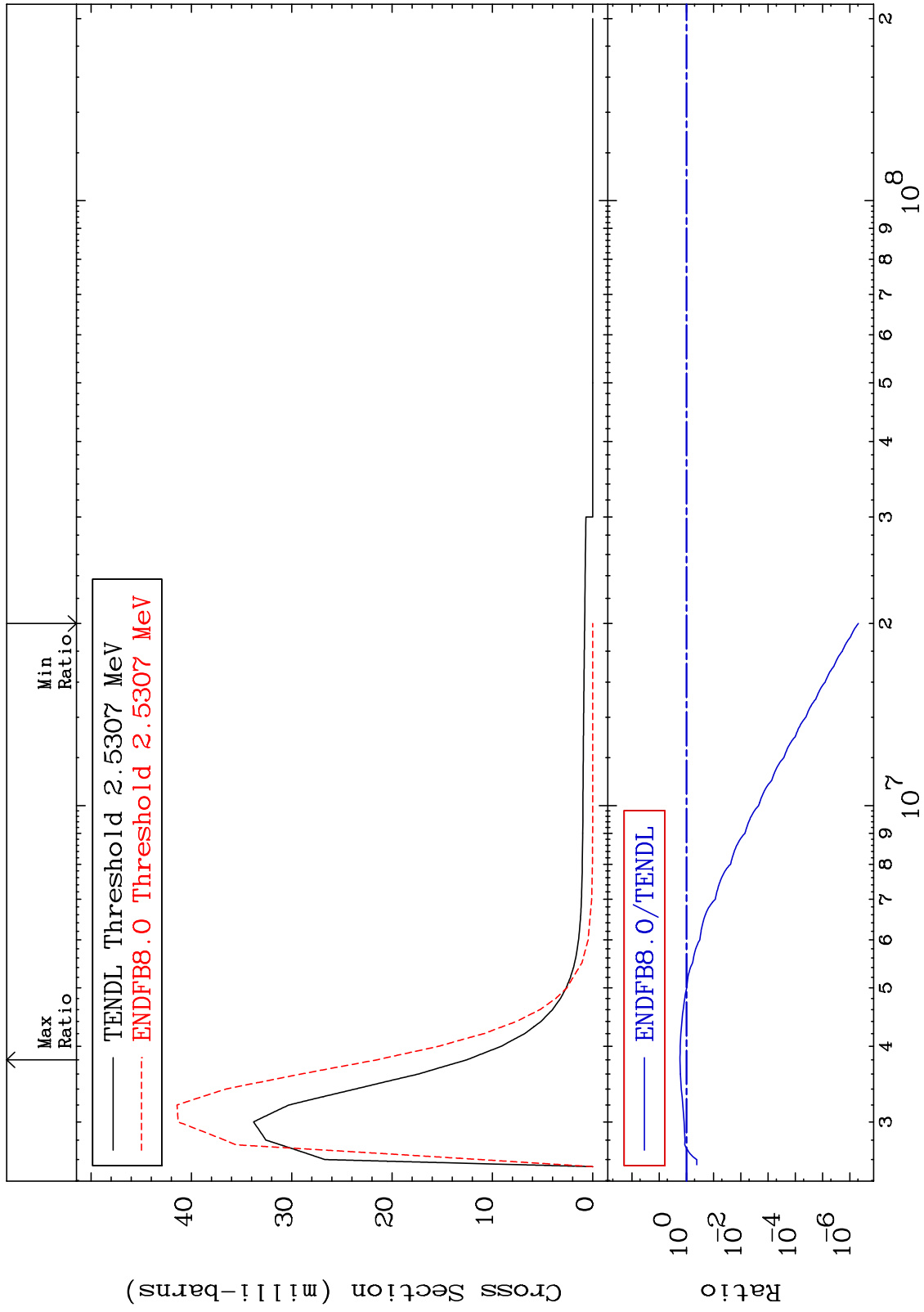
62-Sm-146
-100.0 To 50.95 %



MAT 6231

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

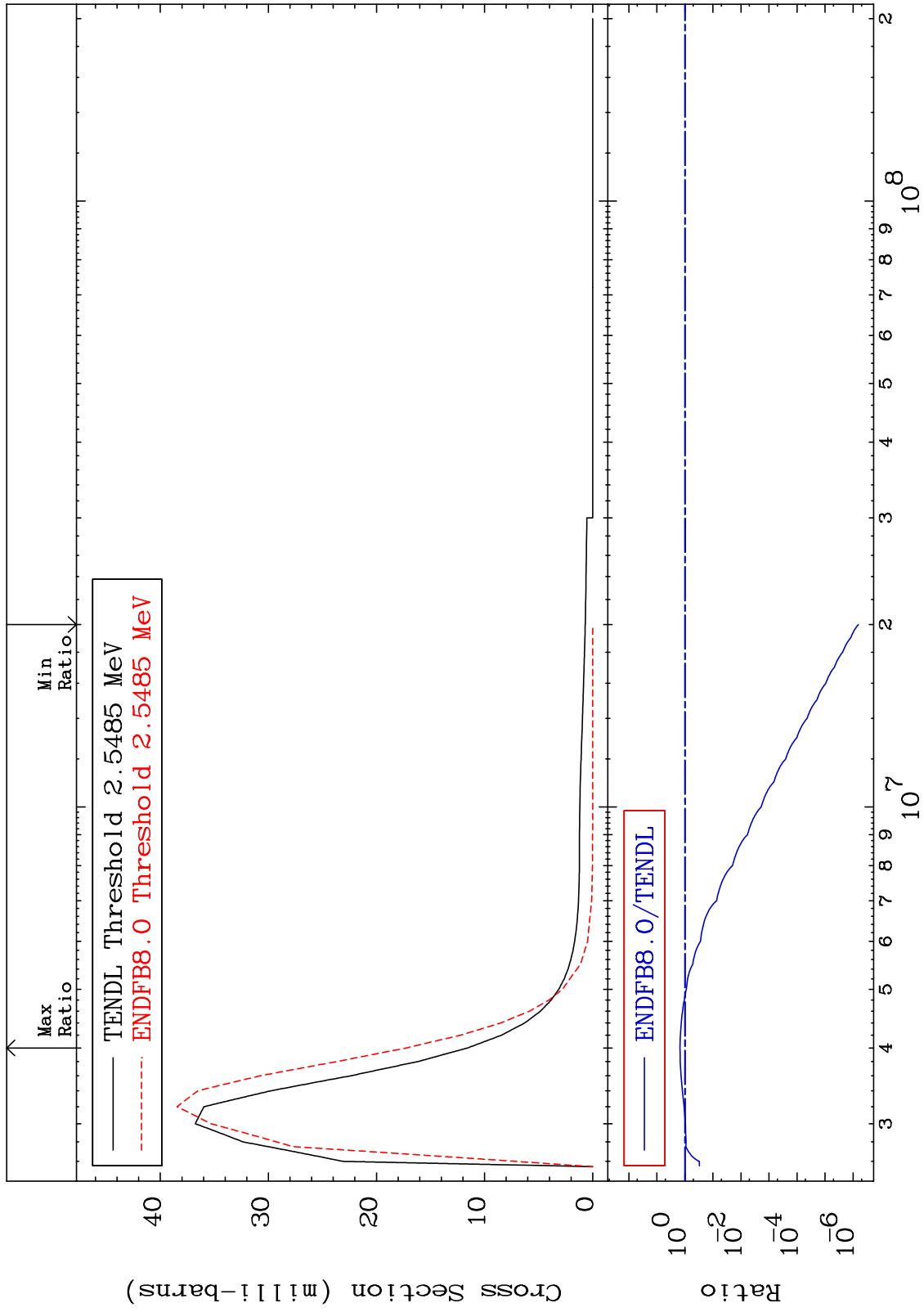
62-Sm-146
-100.0 To 71.36 %



MAT 6231

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

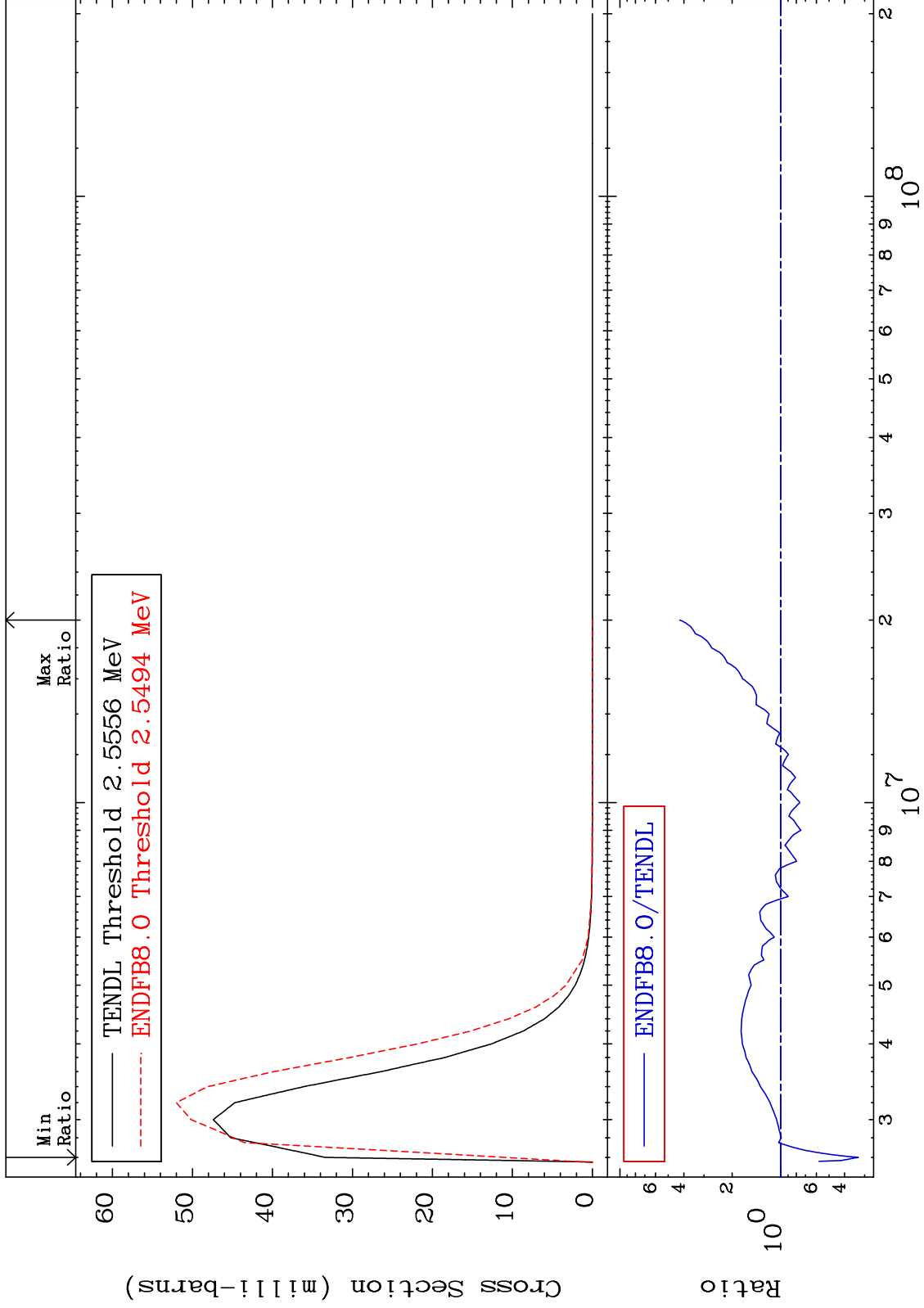
62-Sm-146
-100.0 To 49.15 %



MAT 6231

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

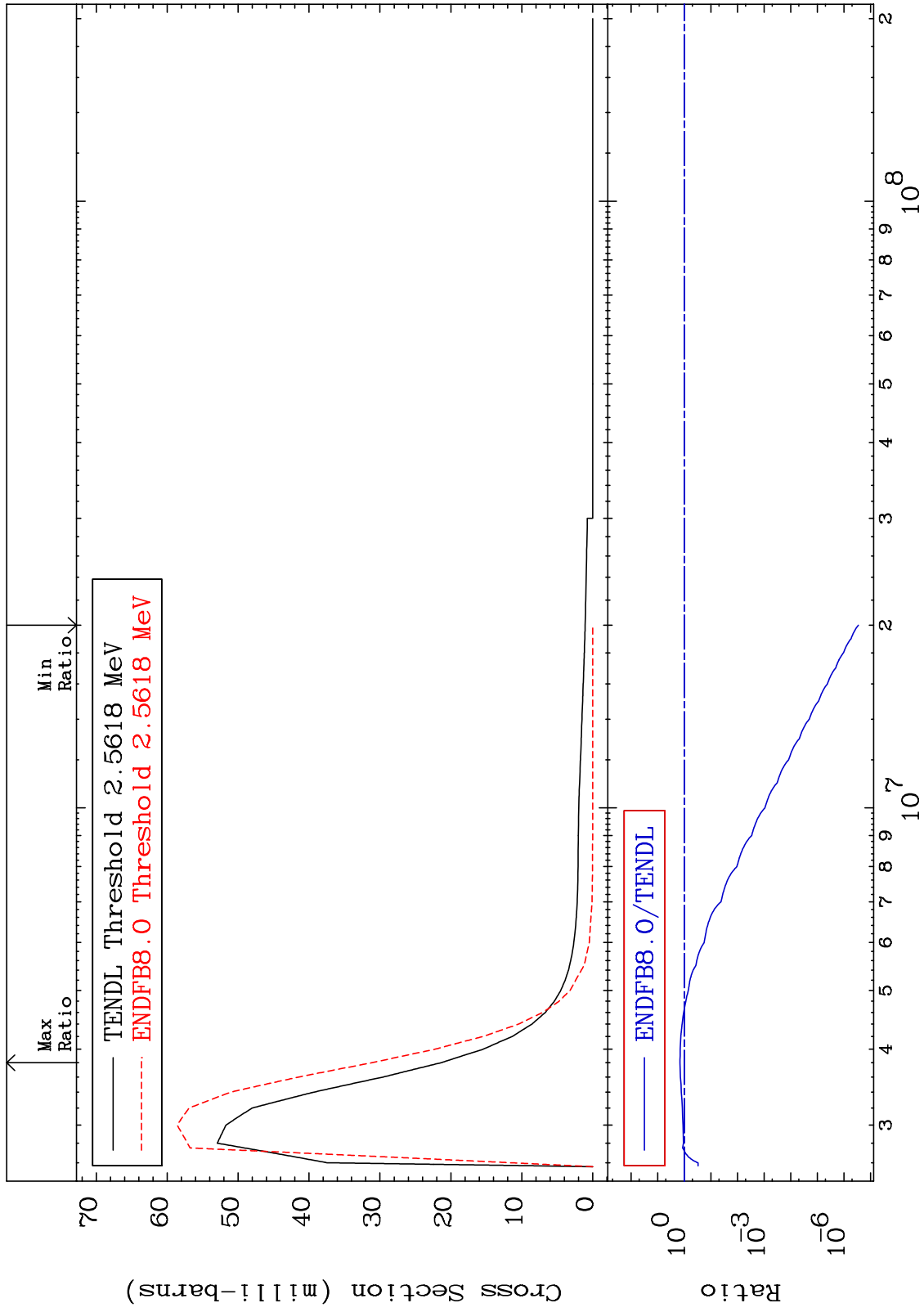
62-Sm-146
-67.15 To 323.8 %



MAT 6231

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

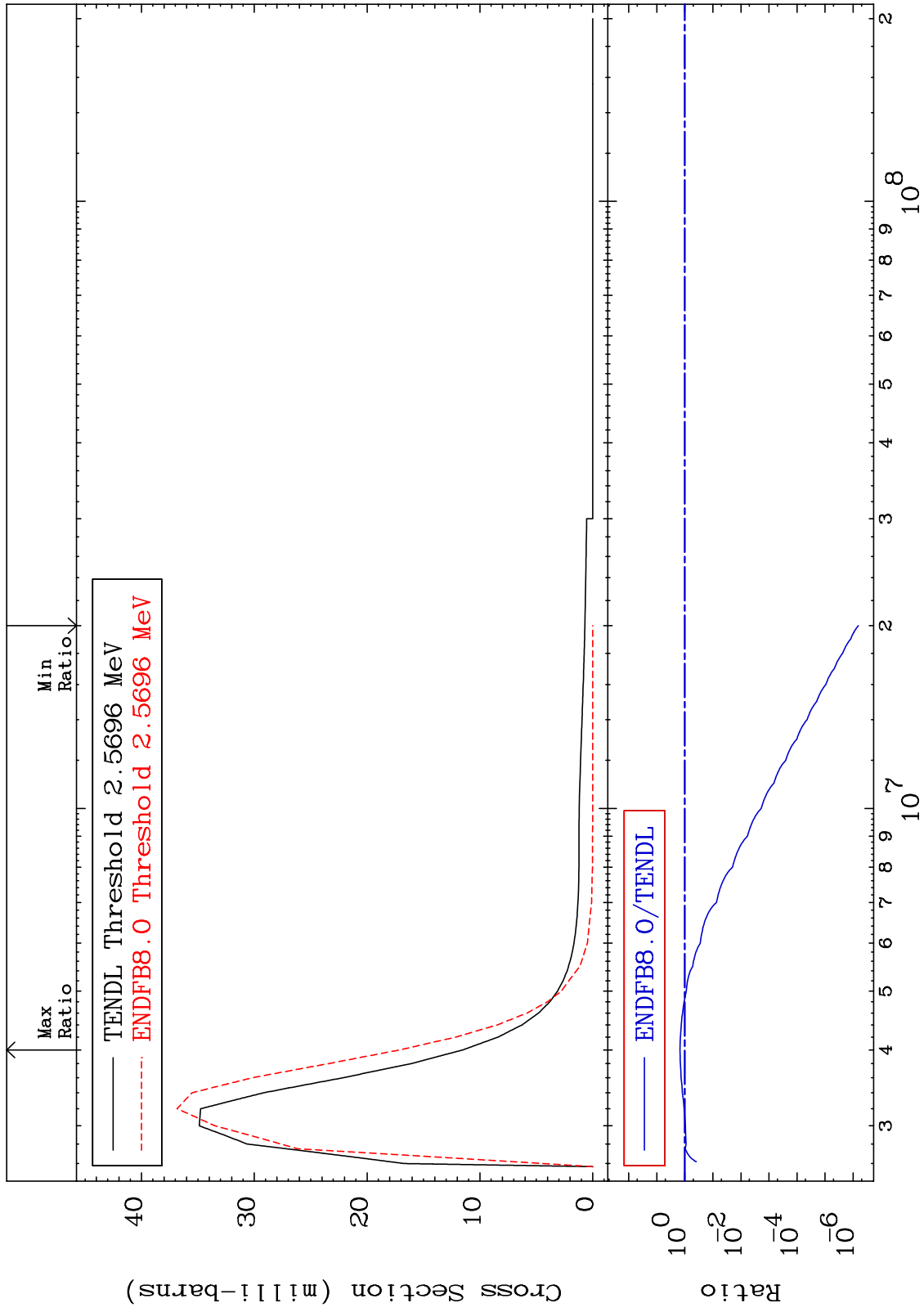
62-Sm-146
-100.0 To 45.61 %



MAT 6231

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

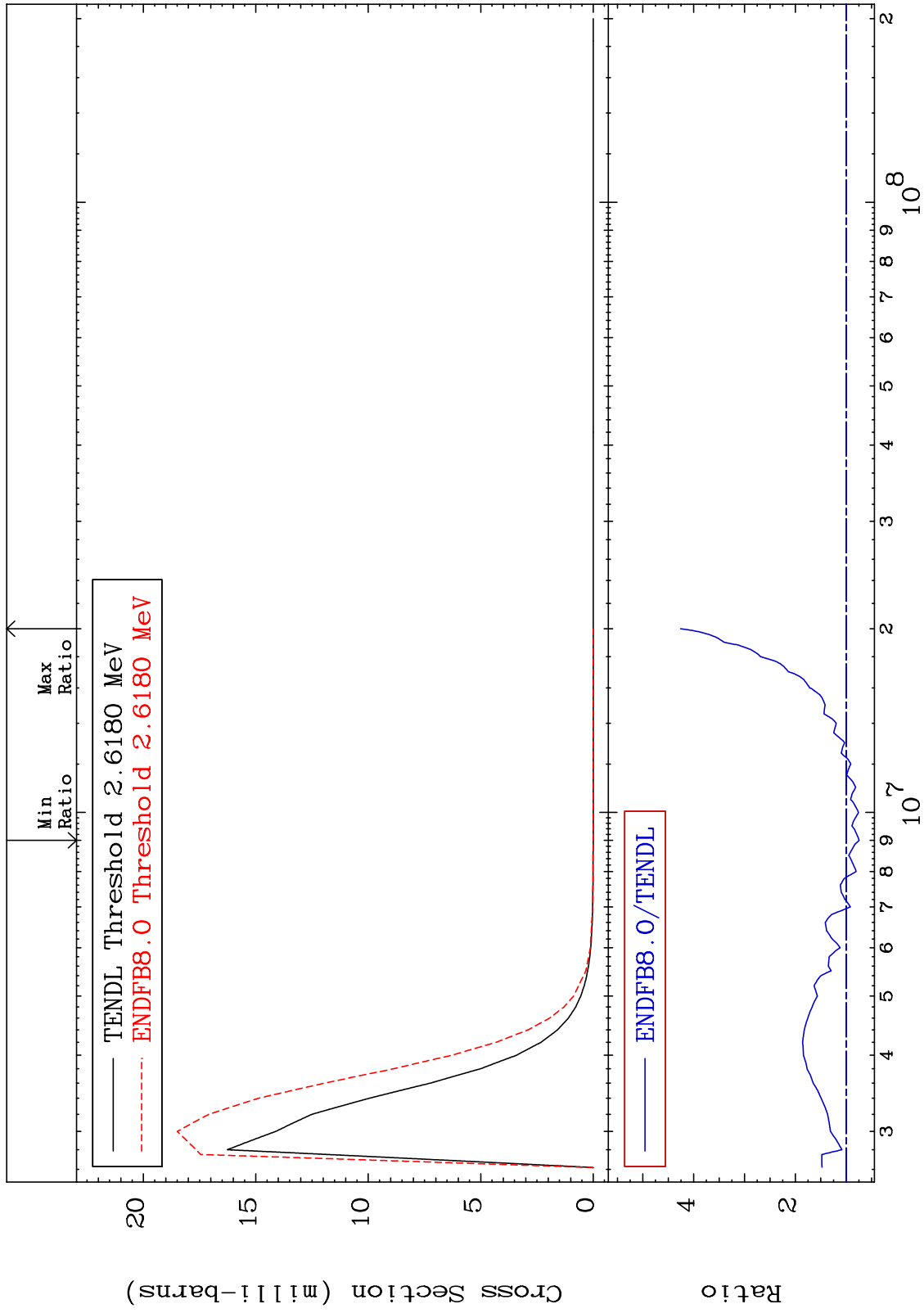
62-Sm-146
-100.0 To 48.61 %



MAT 6231

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

62-Sm-146
-25.44 To 325.7 %



28

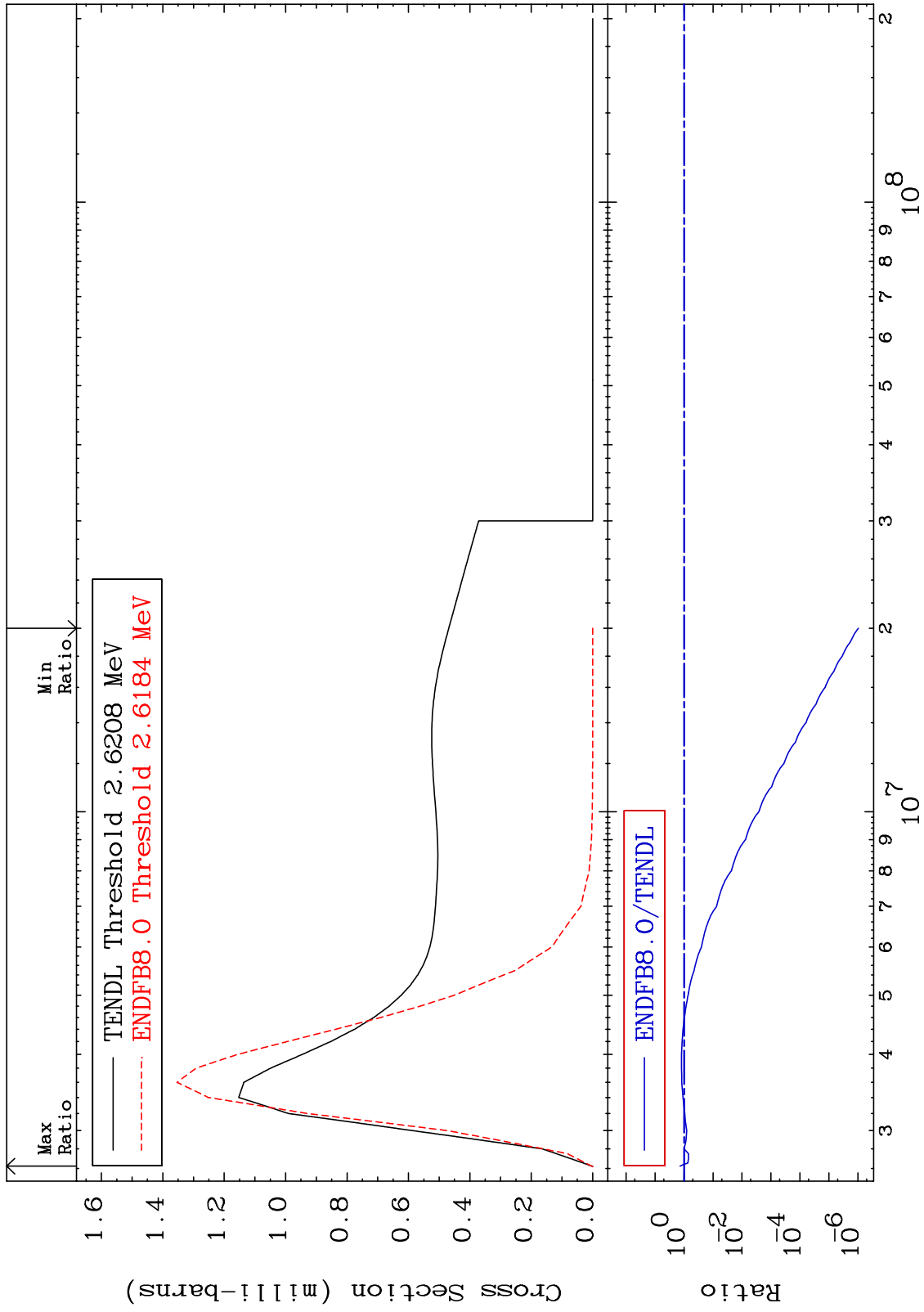
Incident Energy (eV)

62-Sm-146

MAT 6231

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

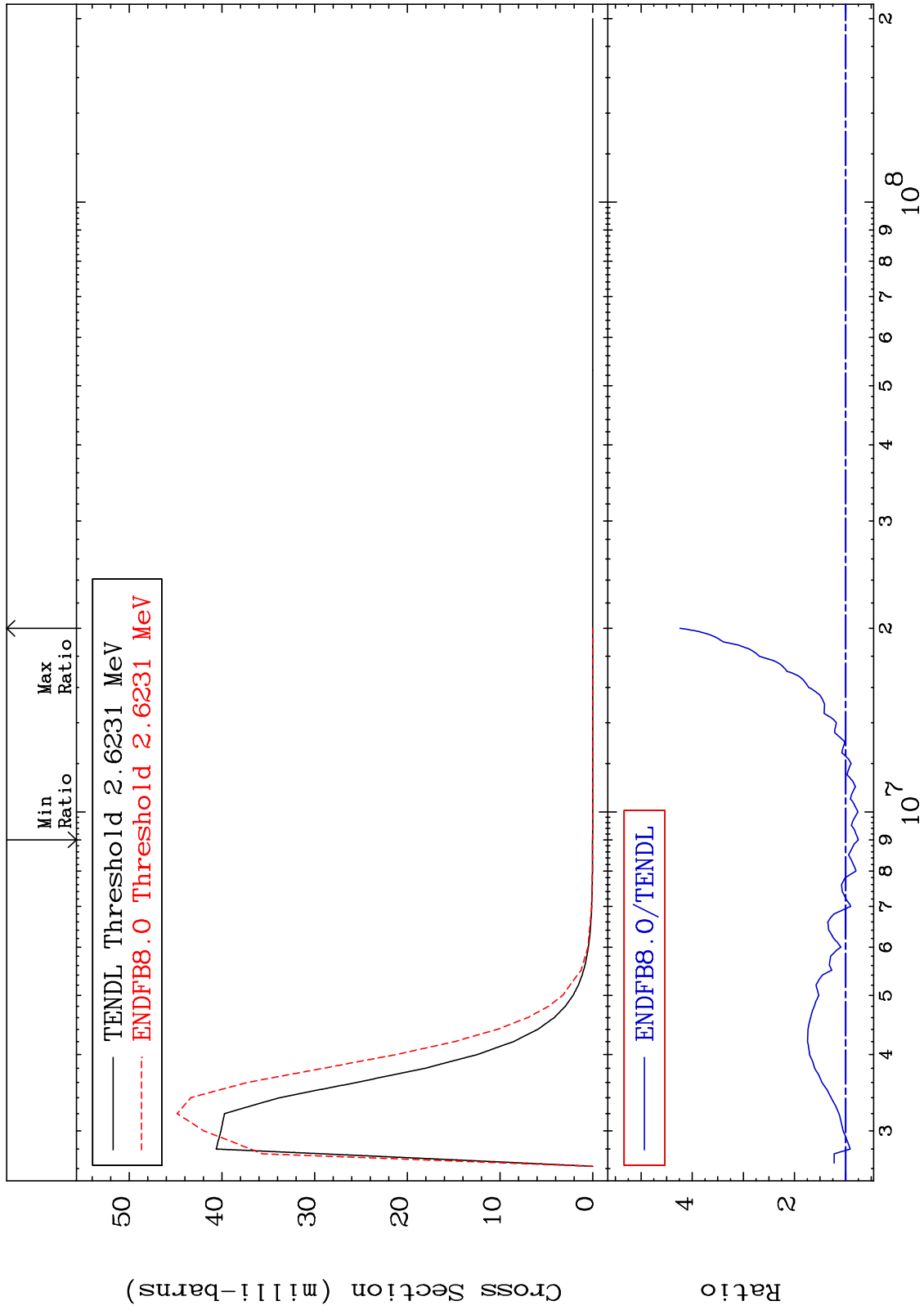
62-Sm-146
-100.0 To 37.21 %



MAT 6231

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

62-Sm-146
-25.02 To 323.8 %



30

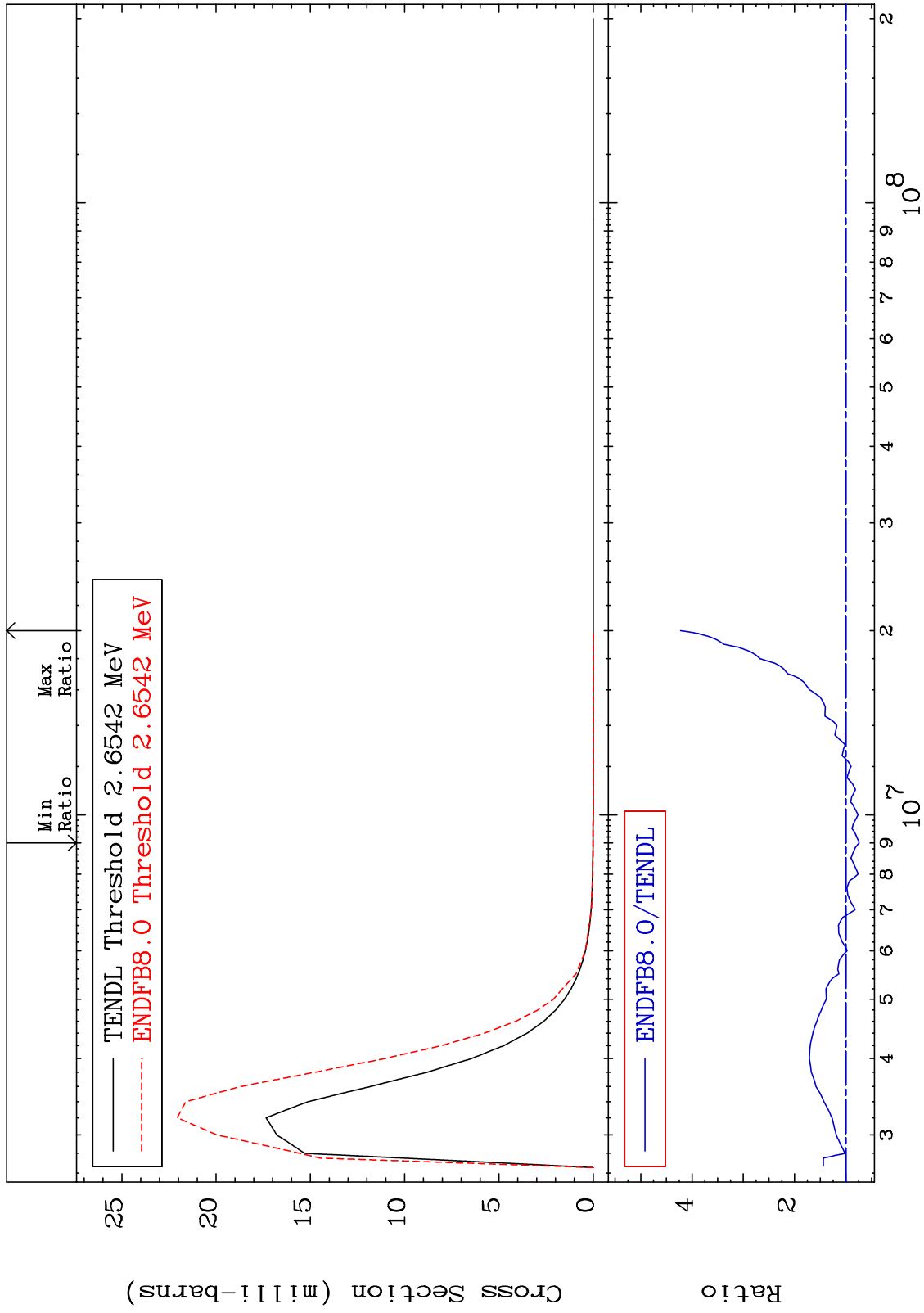
Incident Energy (eV)

62-Sm-146

MAT 6231

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

62-Sm-146
-25.91 To 322.2 %



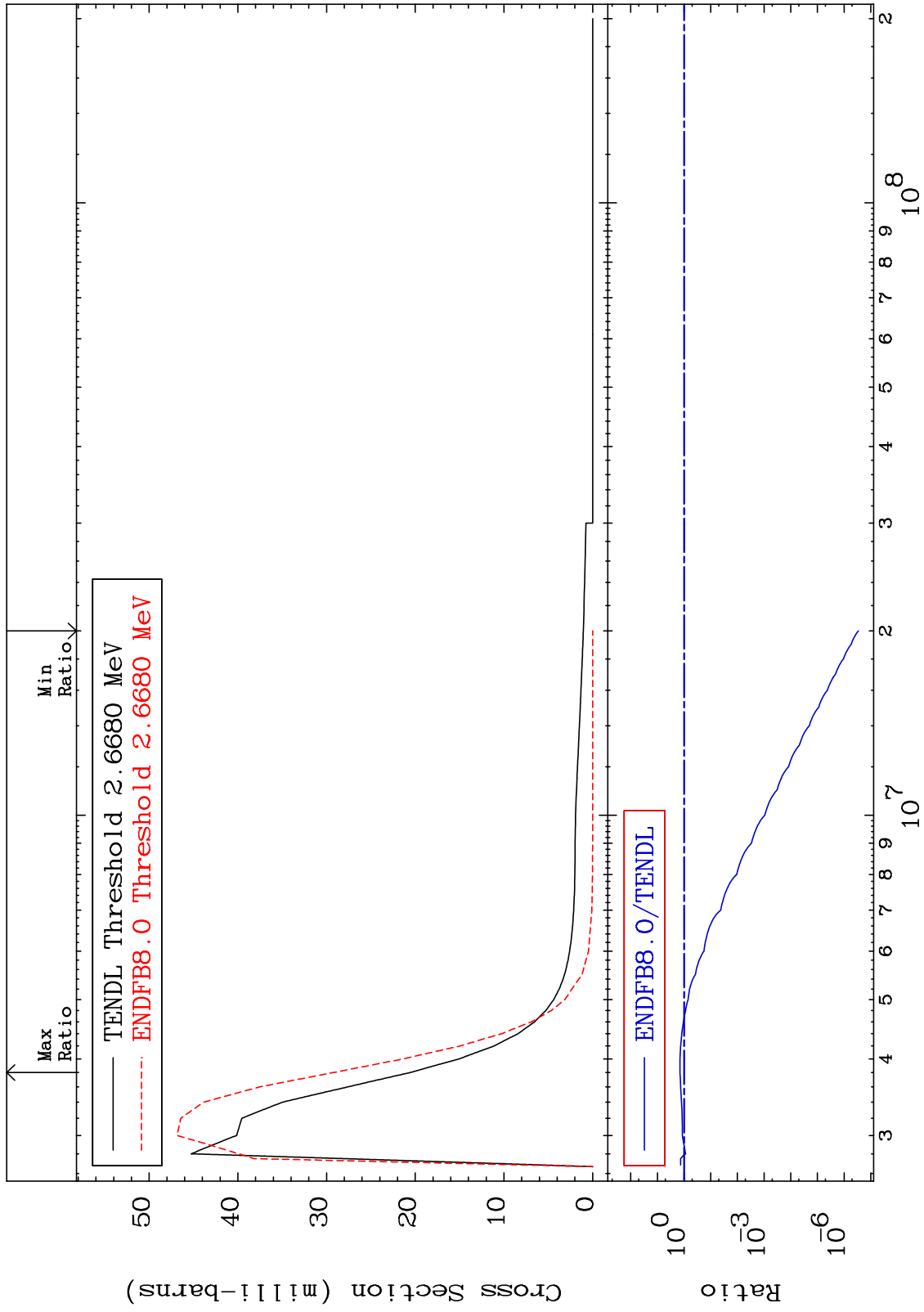
31

62-Sm-146

MAT 6231

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

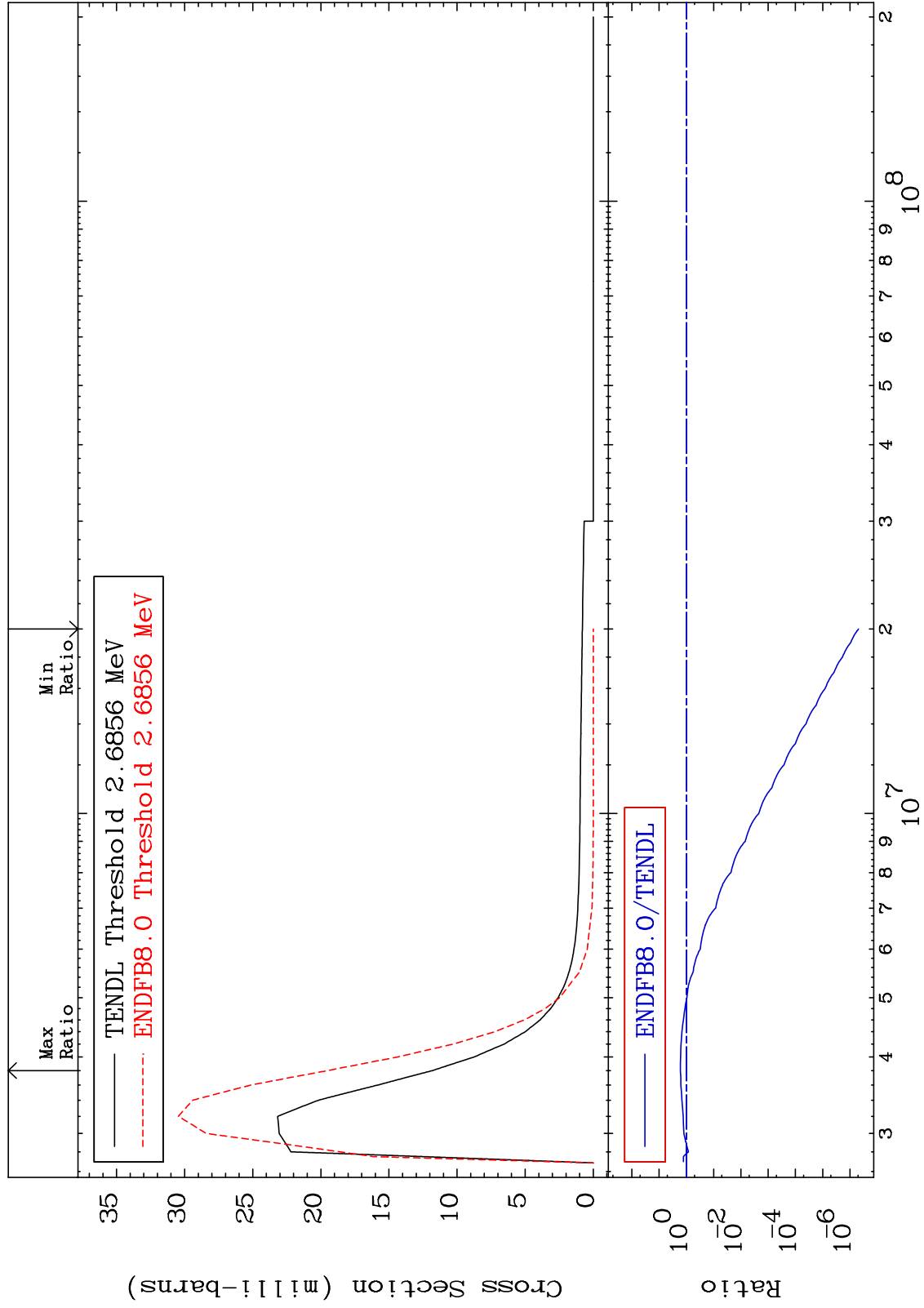
62-Sm-146
-100.0 To 42.05 %



MAT 6231

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

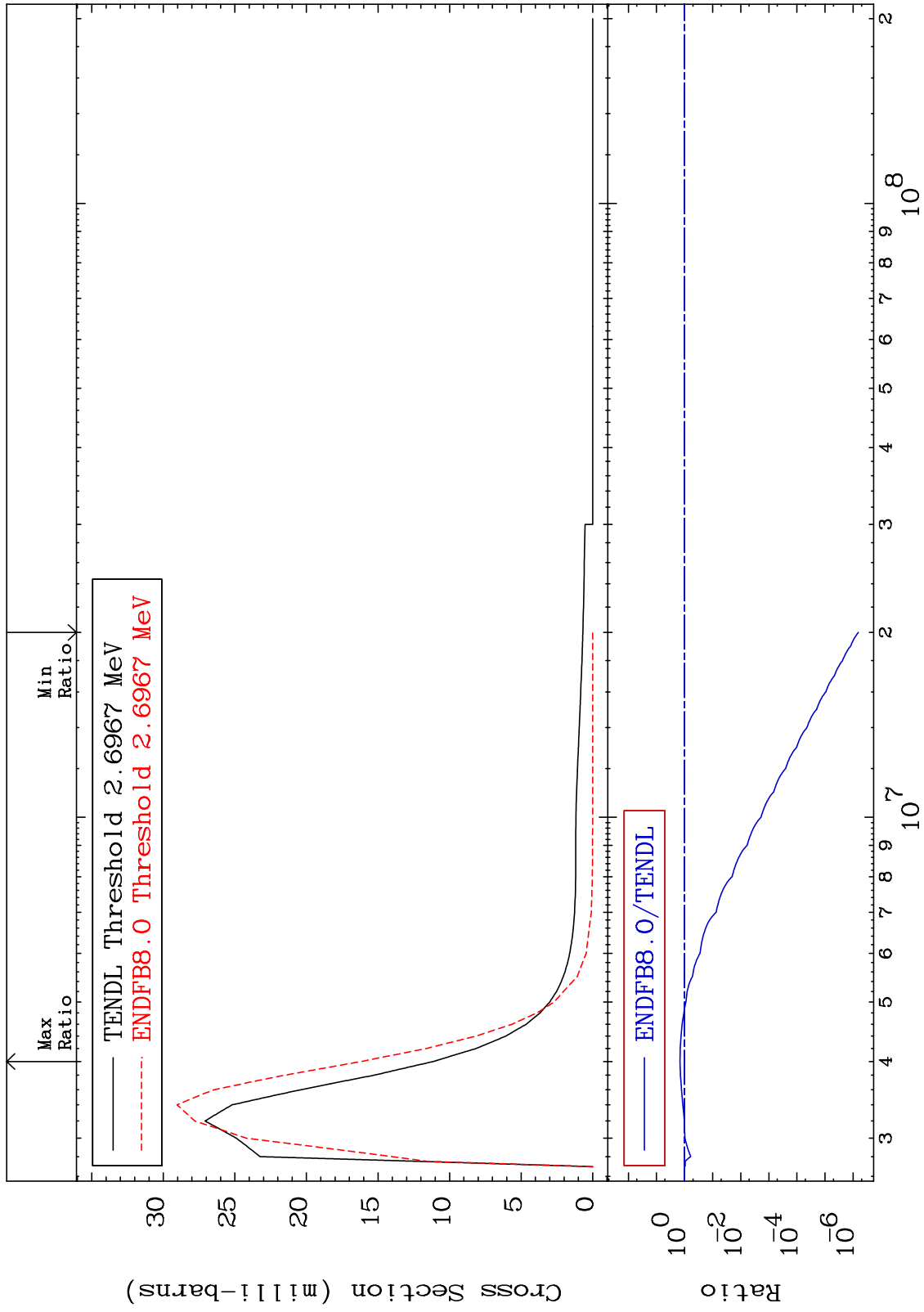
62-Sm-146
-100.0 To 65.16 %



MAT 6231

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

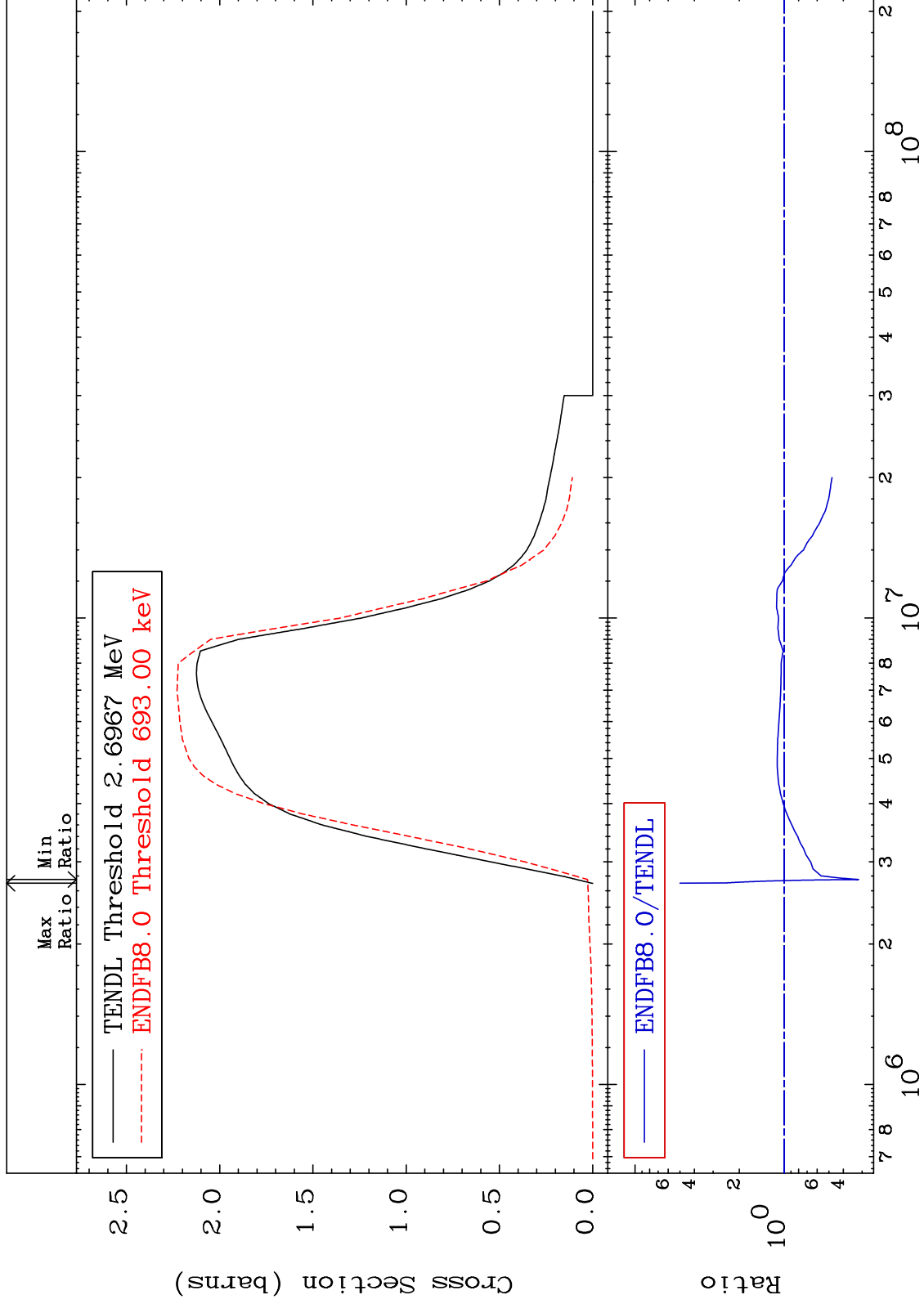
62-Sm-146
-100.0 To 45.26 %



MAT 6231

(n, n') Continuum
Cross Section

62-Sm-146
-68.28 To 399.5 %



35

Incident Energy (eV)

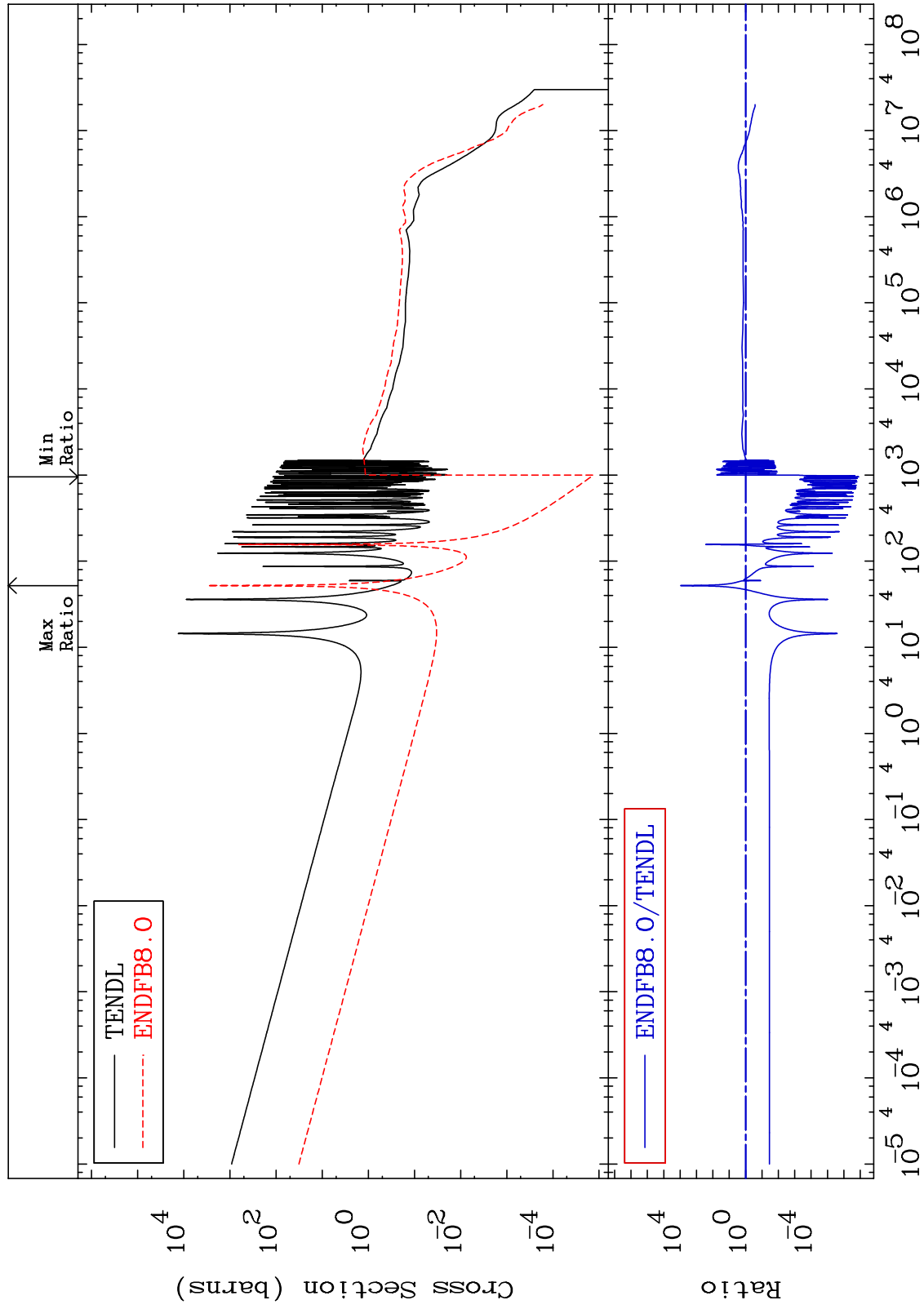
62-Sm-146

MAT 6231

62-Sm-146

-100.0 To 9999. %

(n, γ)
Cross Section



36

Incident Energy (eV)

62-Sm-146

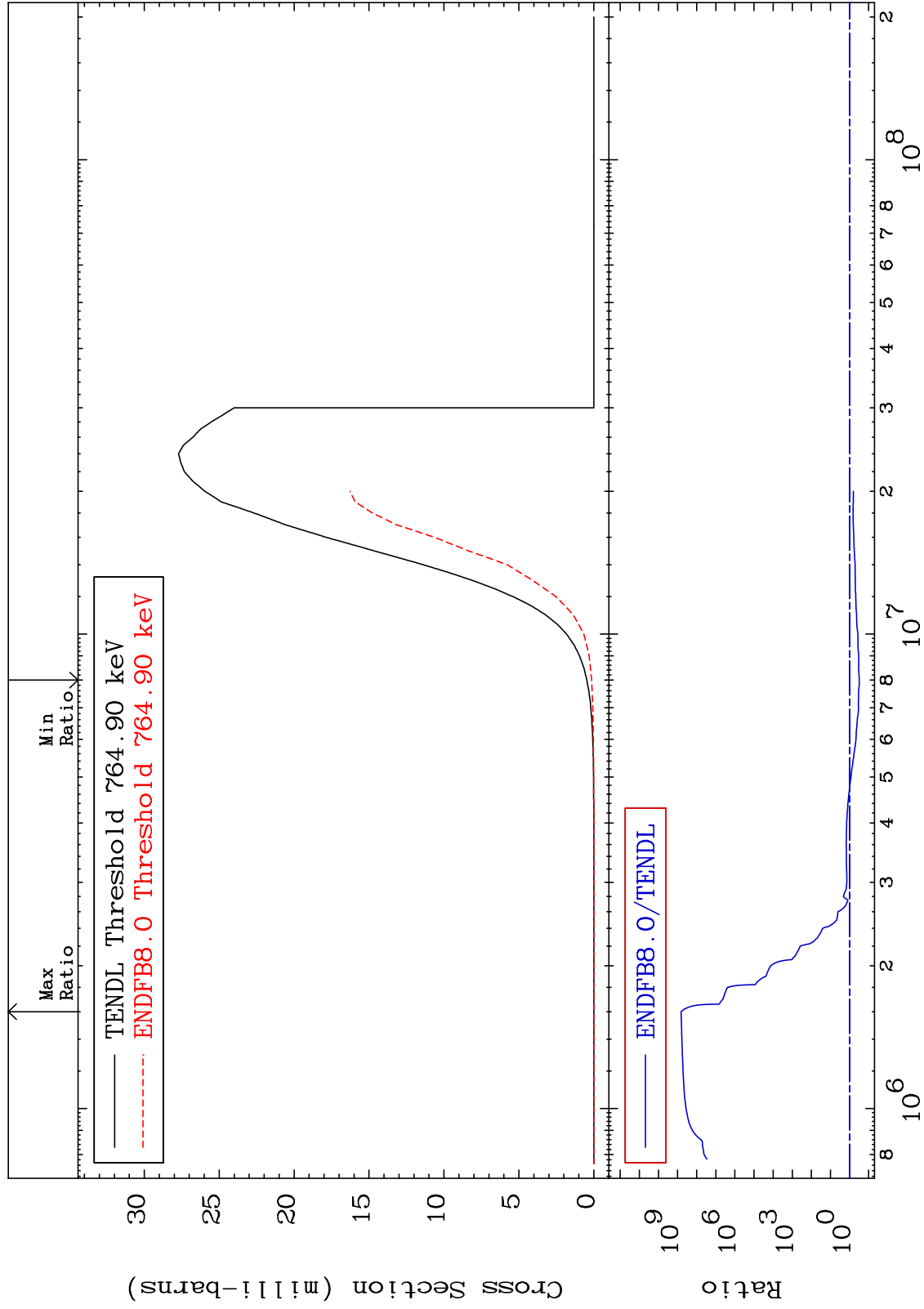
MAT 6231

(n,p)

62-Sm-146

-69.01 To 9999. %

Cross Section



37

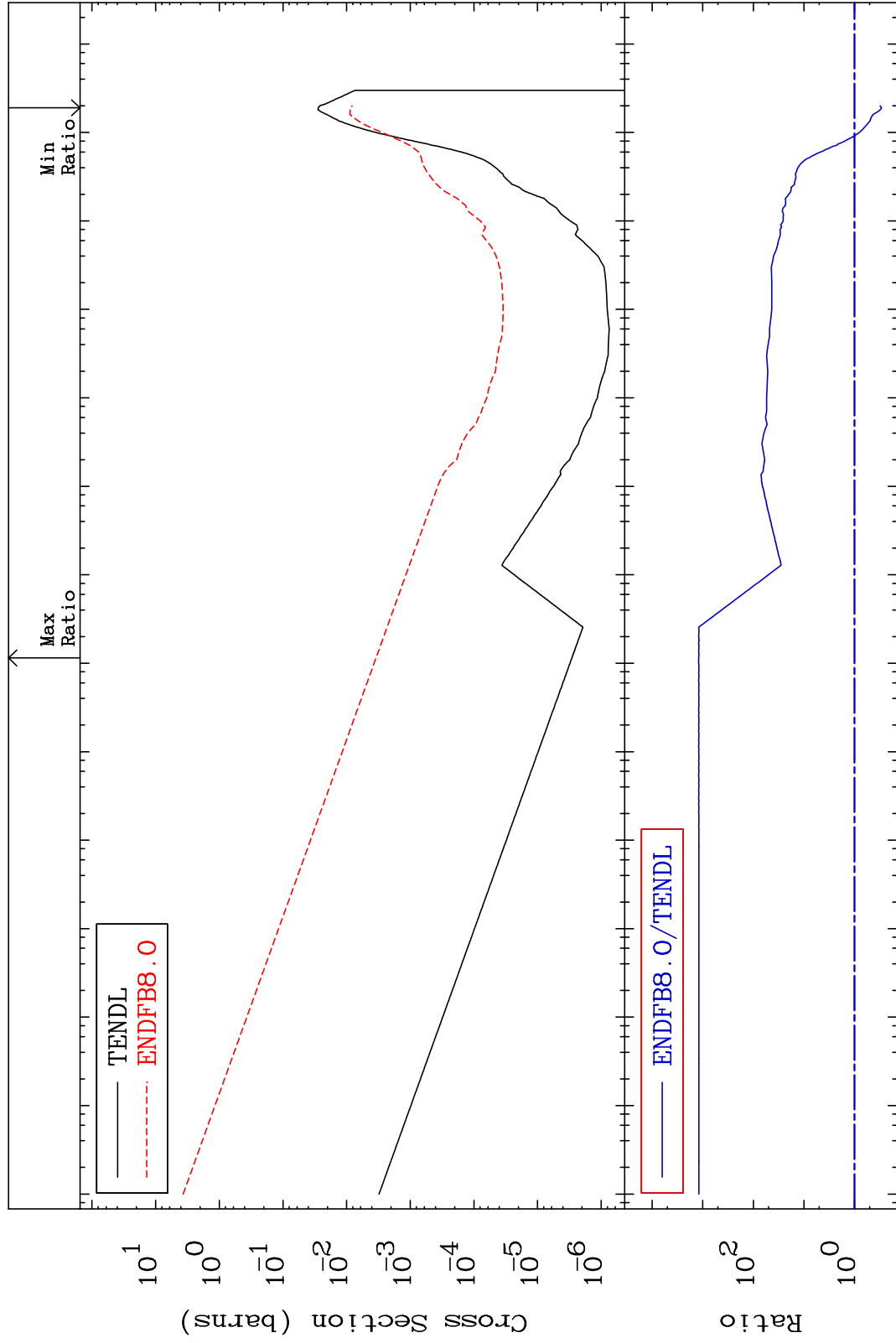
Incident Energy (eV)

62-Sm-146

MAT 6231

62-Sm-146

(n, α)
Cross Section
-70.80 To 9999. %



38

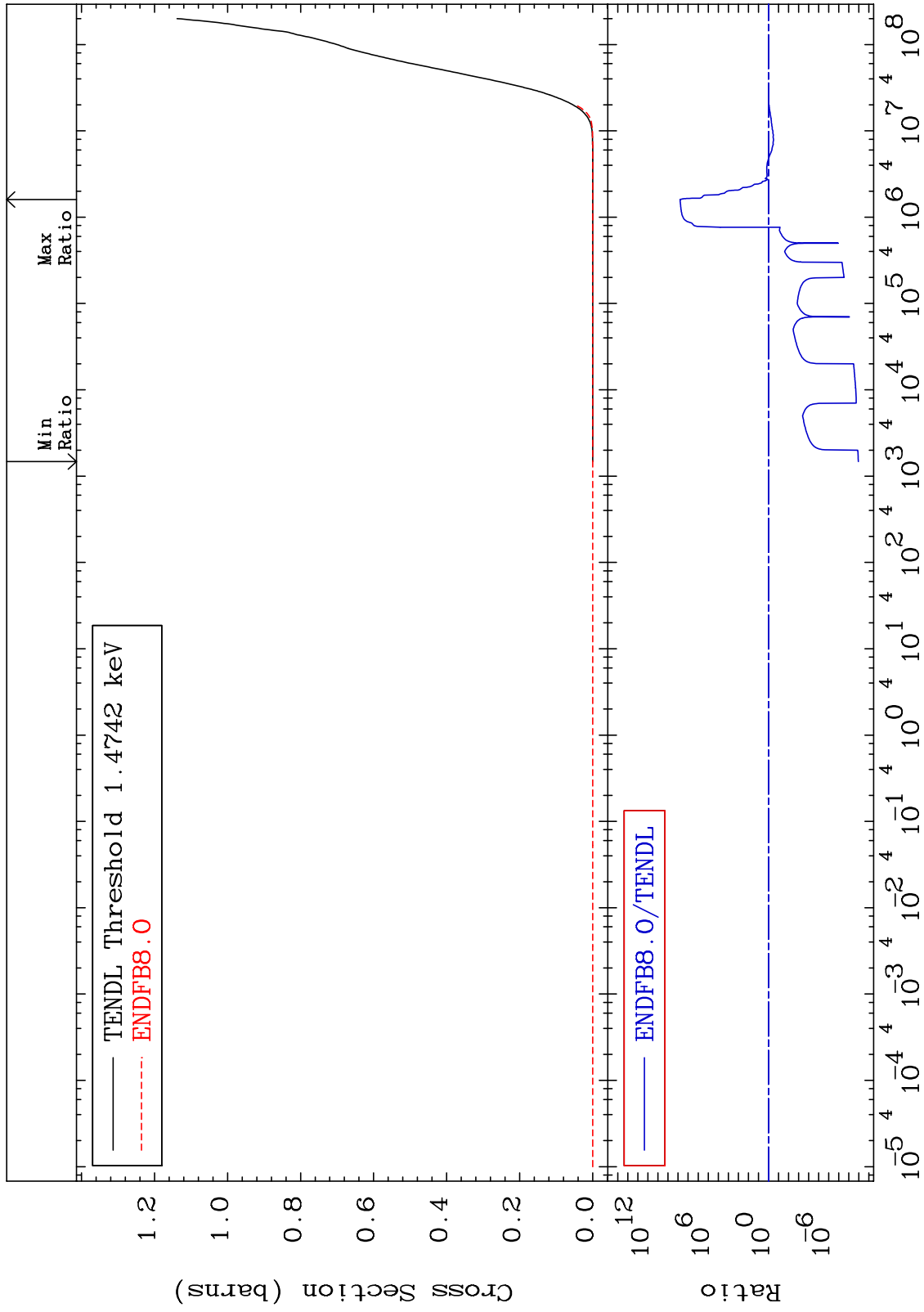
Incident Energy (eV)

62-Sm-146

MAT 6231

Hydrogen Production
Cross Section

62-Sm-146
-100.0 To 9999. %



39

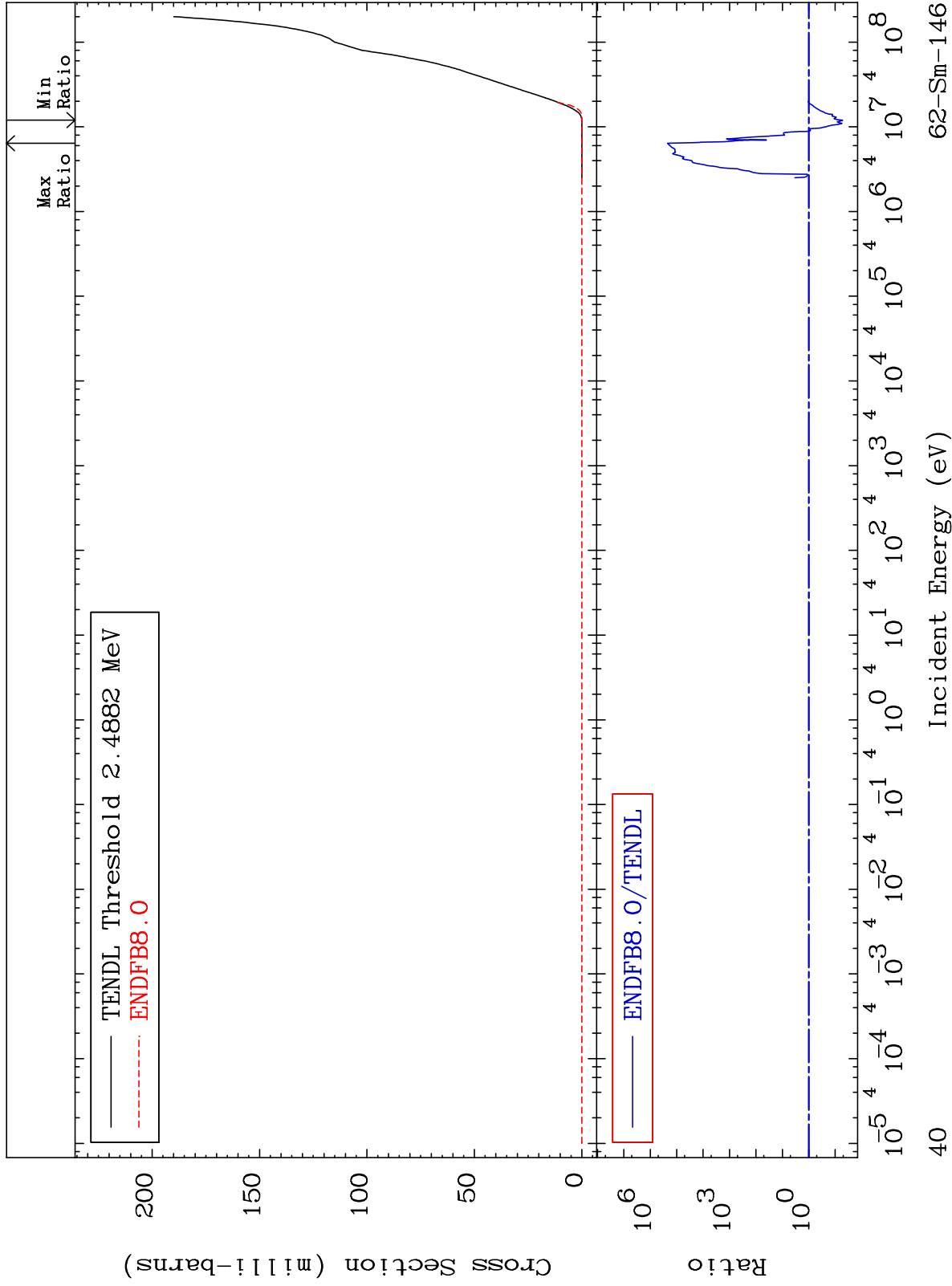
Incident Energy (eV)

62-Sm-146

MAT 6231

Deuterium Production
Cross Section

62-Sm-146
-94.78 To 9999. %



62-Sm-146

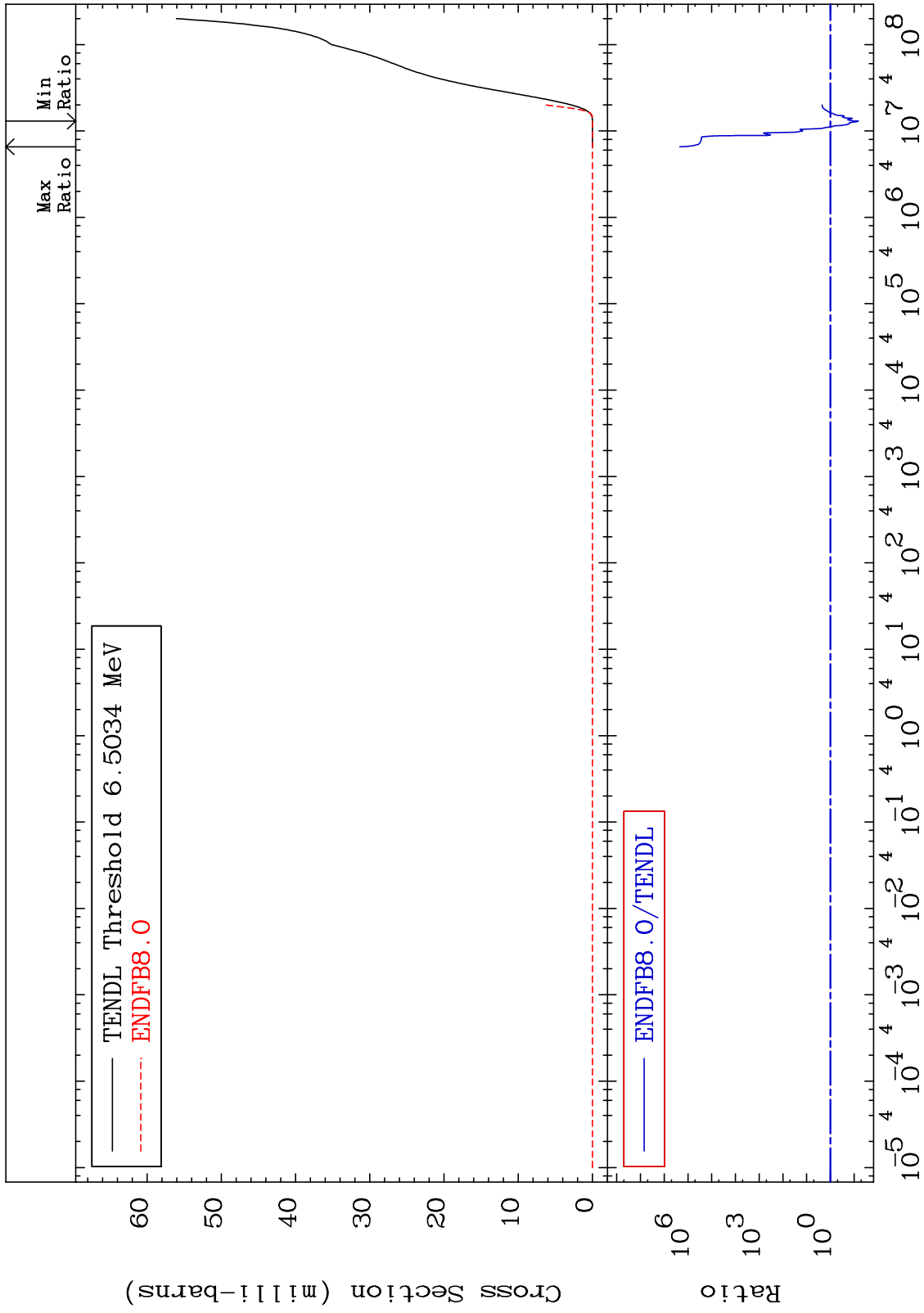
Incident Energy (eV)

40

MAT 6231

Tritium Production
Cross Section

62-Sm-146
-93.38 To 9999. %



41

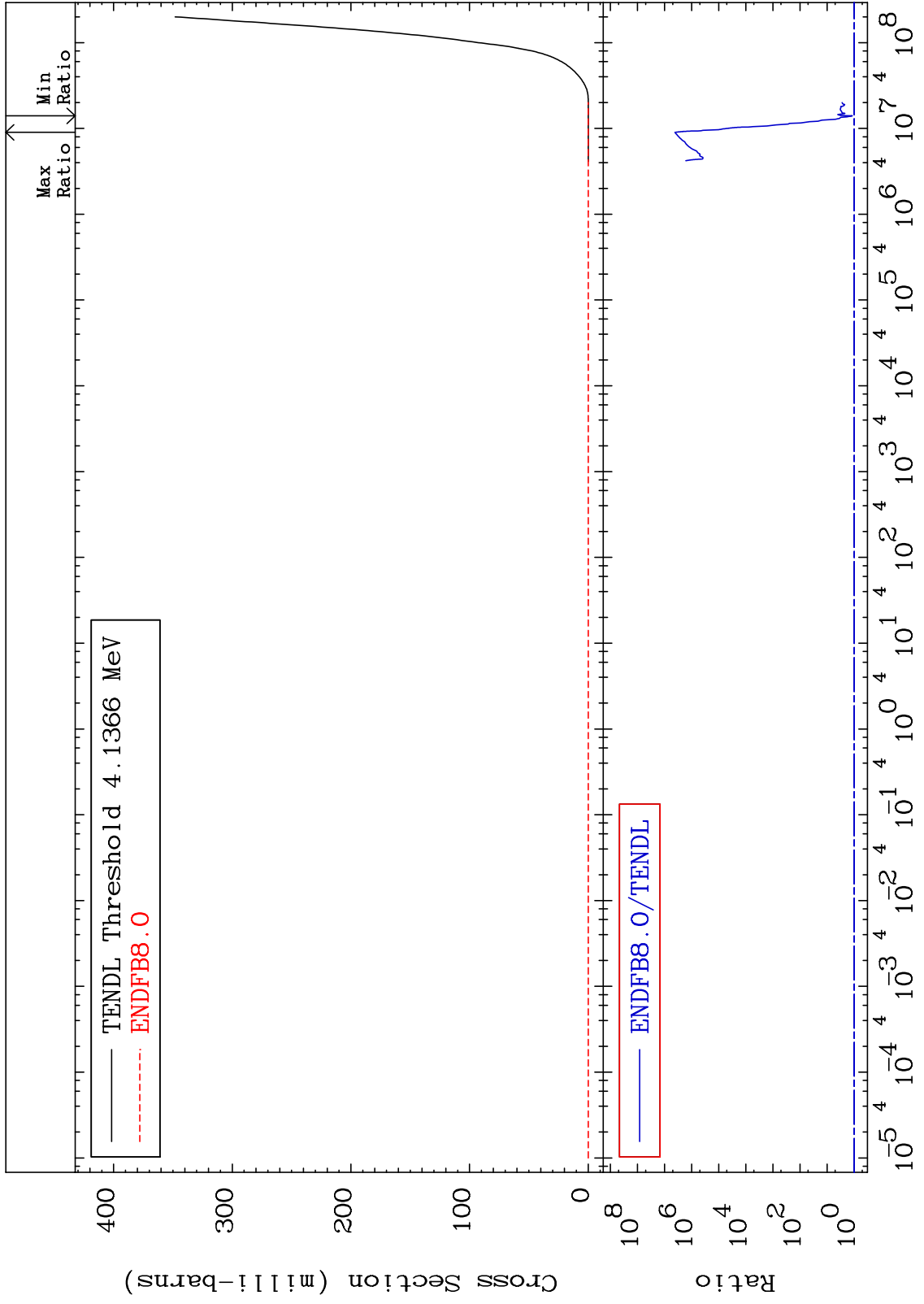
Incident Energy (eV)

62-Sm-146

MAT 6231

He-3 Production
Cross Section

62-Sm-146
16.78 To 9999. %



62-Sm-146

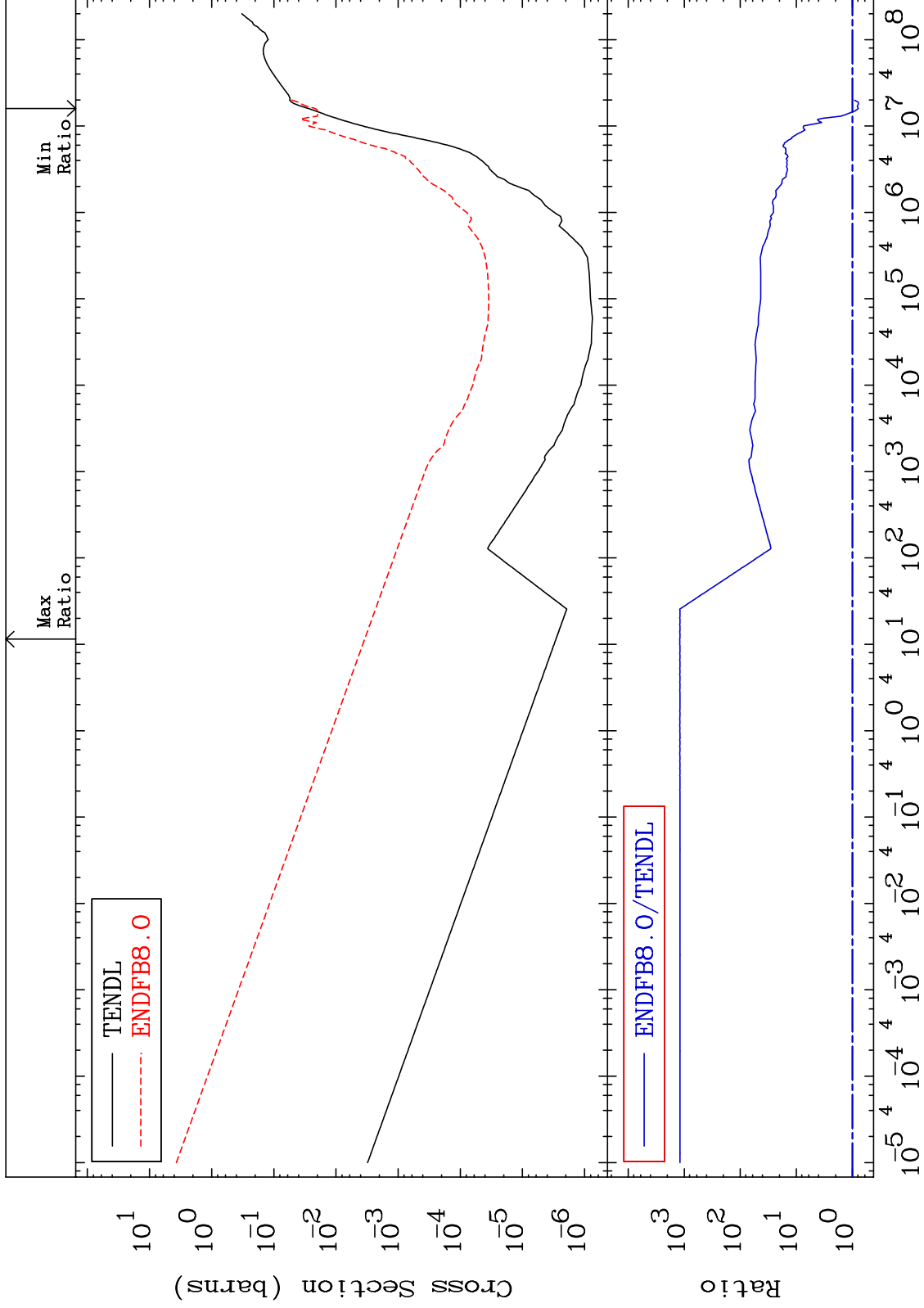
Incident Energy (eV)

42

MAT 6231

He-4 Production
Cross Section

62-Sm-146
-21.80 To 9999. %



43

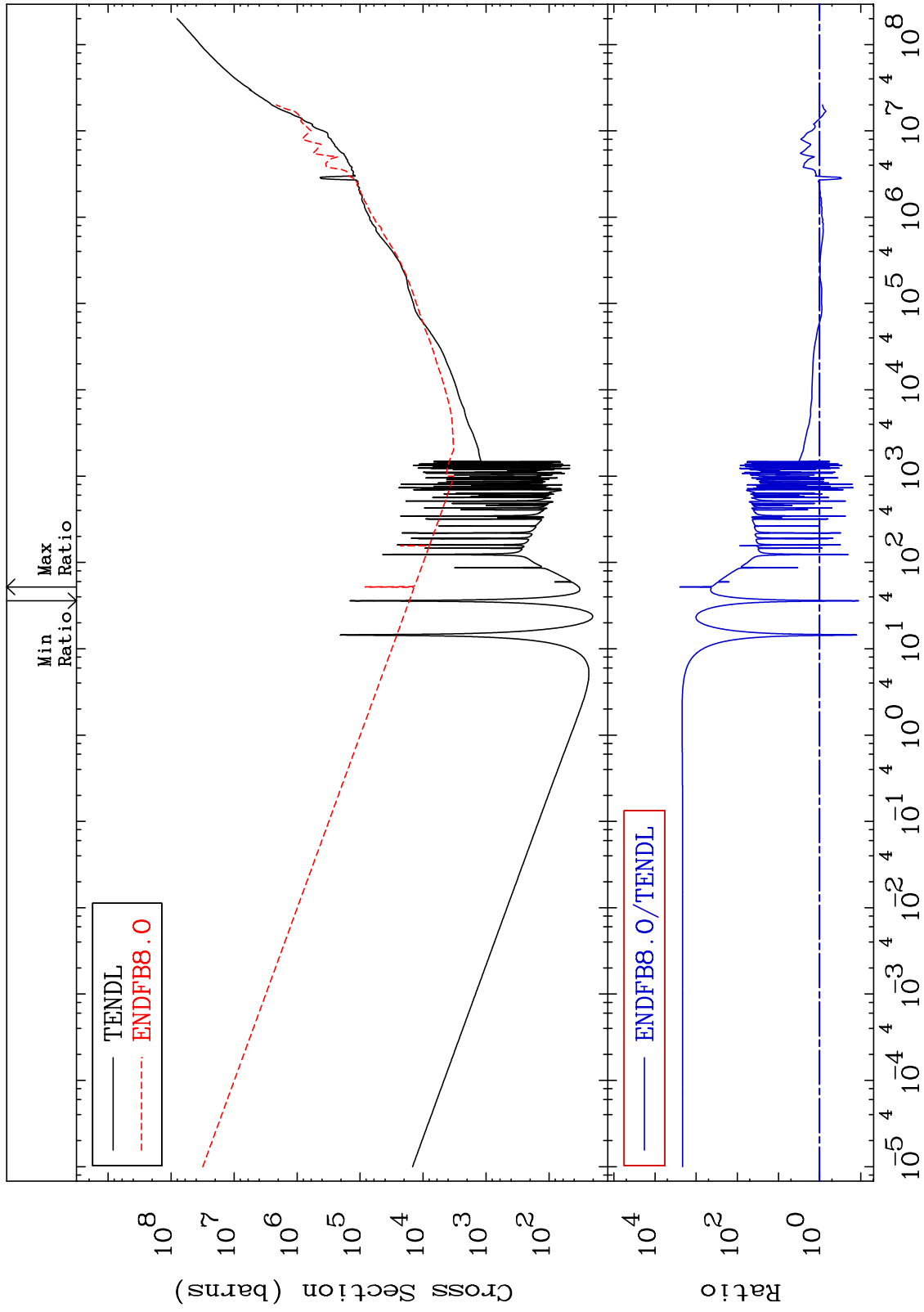
Incident Energy (eV)

62-Sm-146

MAT 6231

Kerma total (eV-barns)
Cross Section

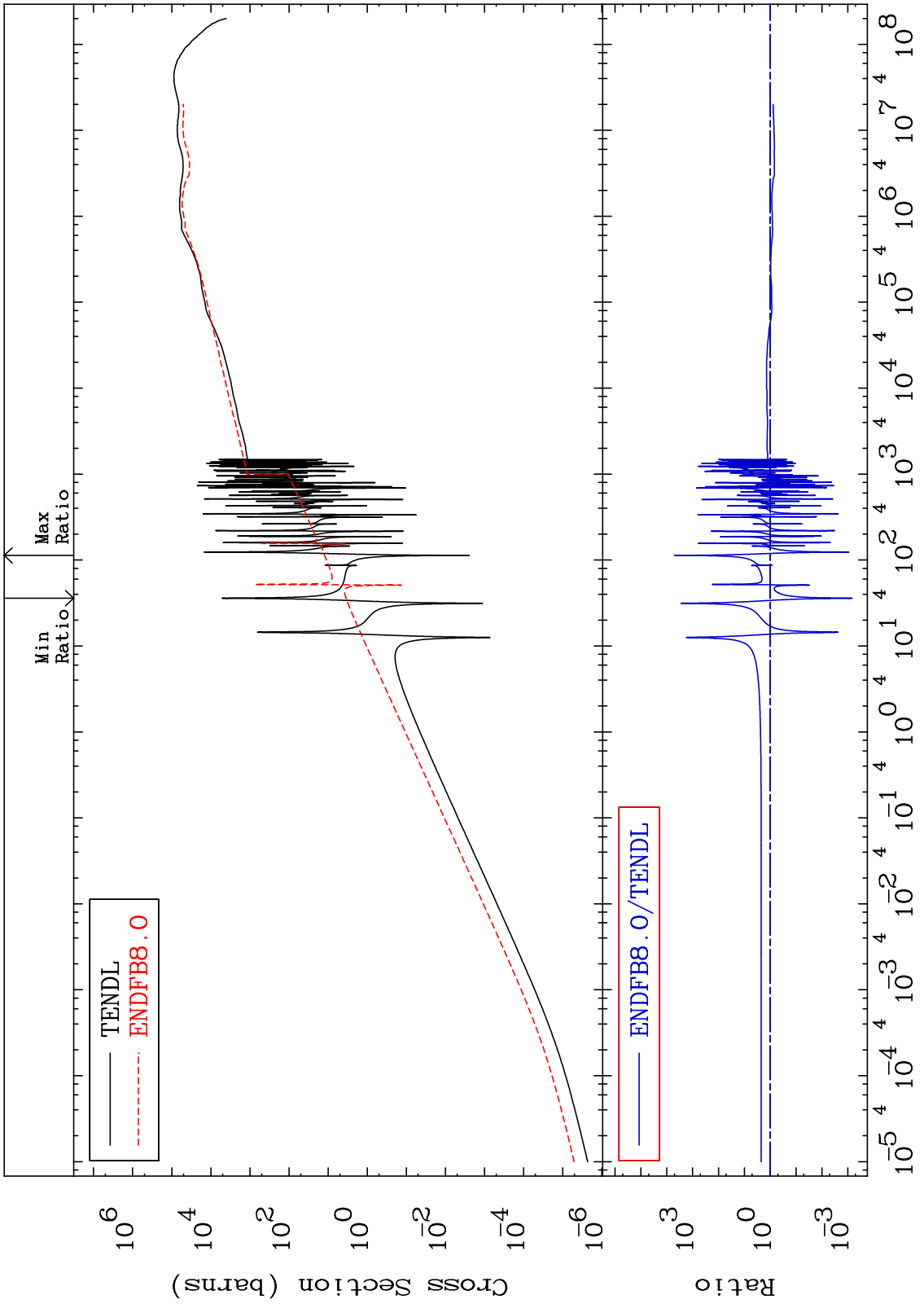
62-Sm-146
-88.57 To 9999. %



MAT 6231

Kerma elastic
Cross Section

62-Sm-146
-99.93 To 9999. %



45

Incident Energy (eV)

62-Sm-146

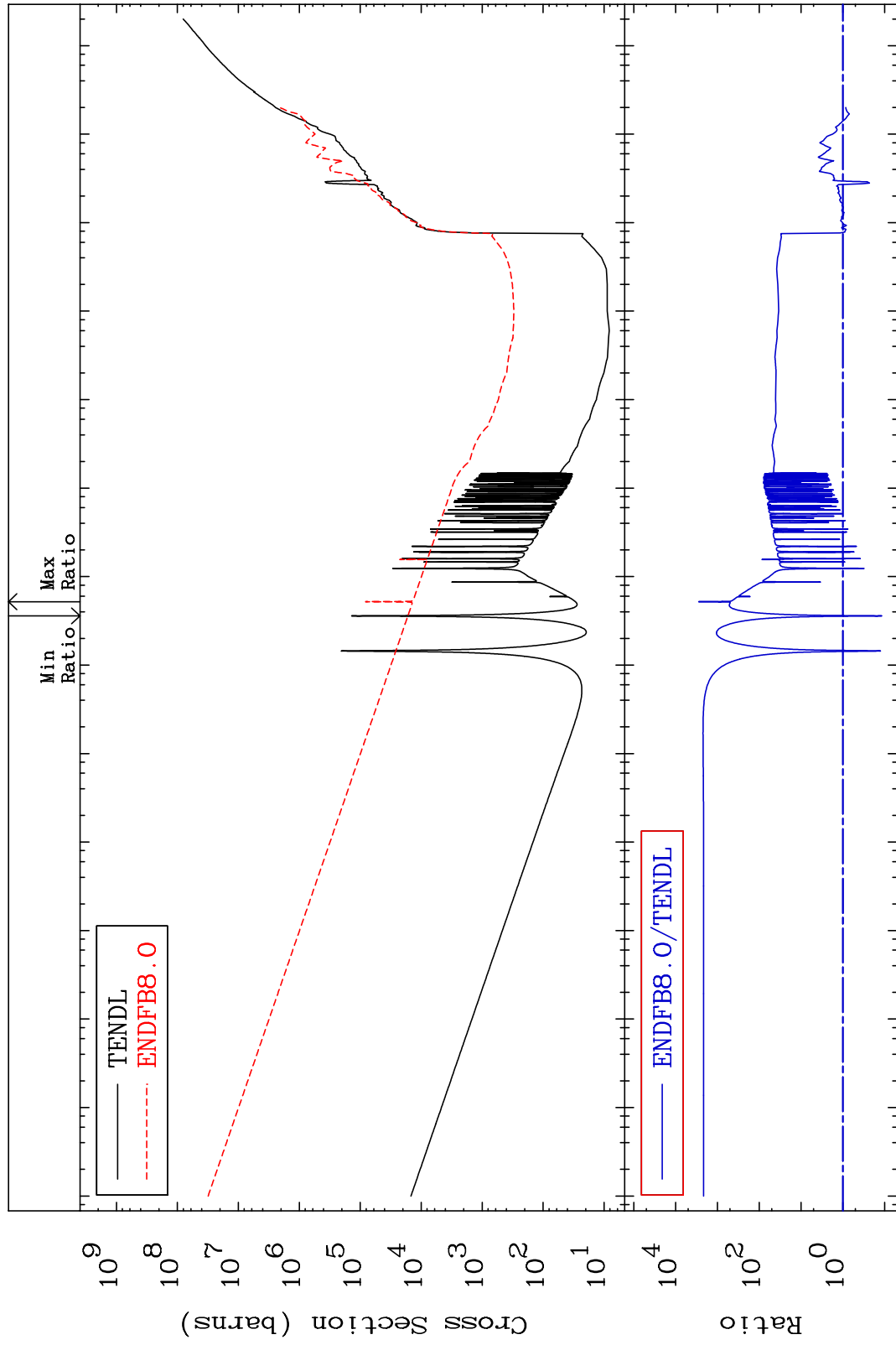
MAT 6231

Kerma non-elastic (all but mt2)

62-Sm-146

-88.15 To 9999. %

Cross Section



46

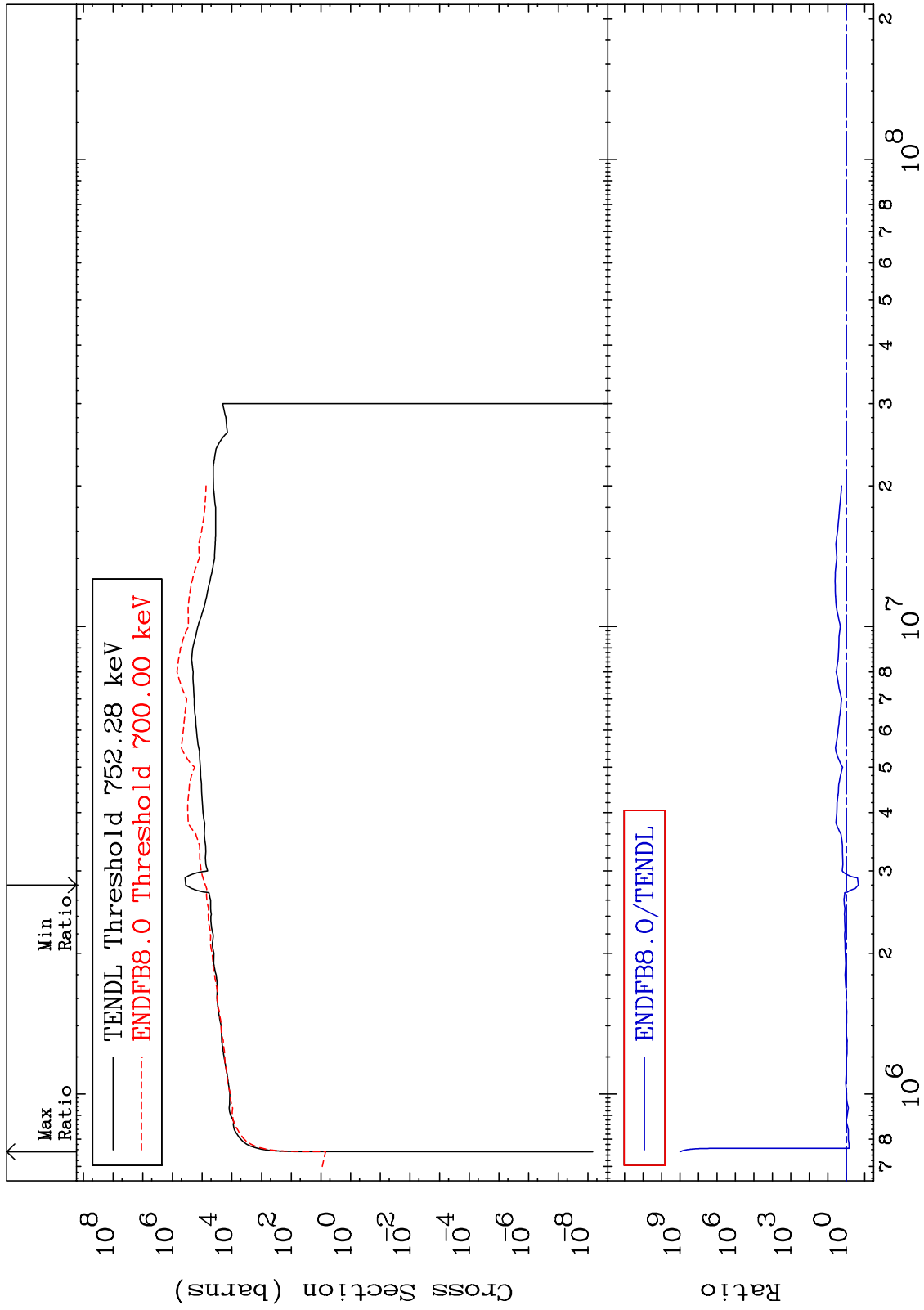
Incident Energy (eV)

62-Sm-146

MAT 6231

Kerma inelastic (mt51-91)
Cross Section

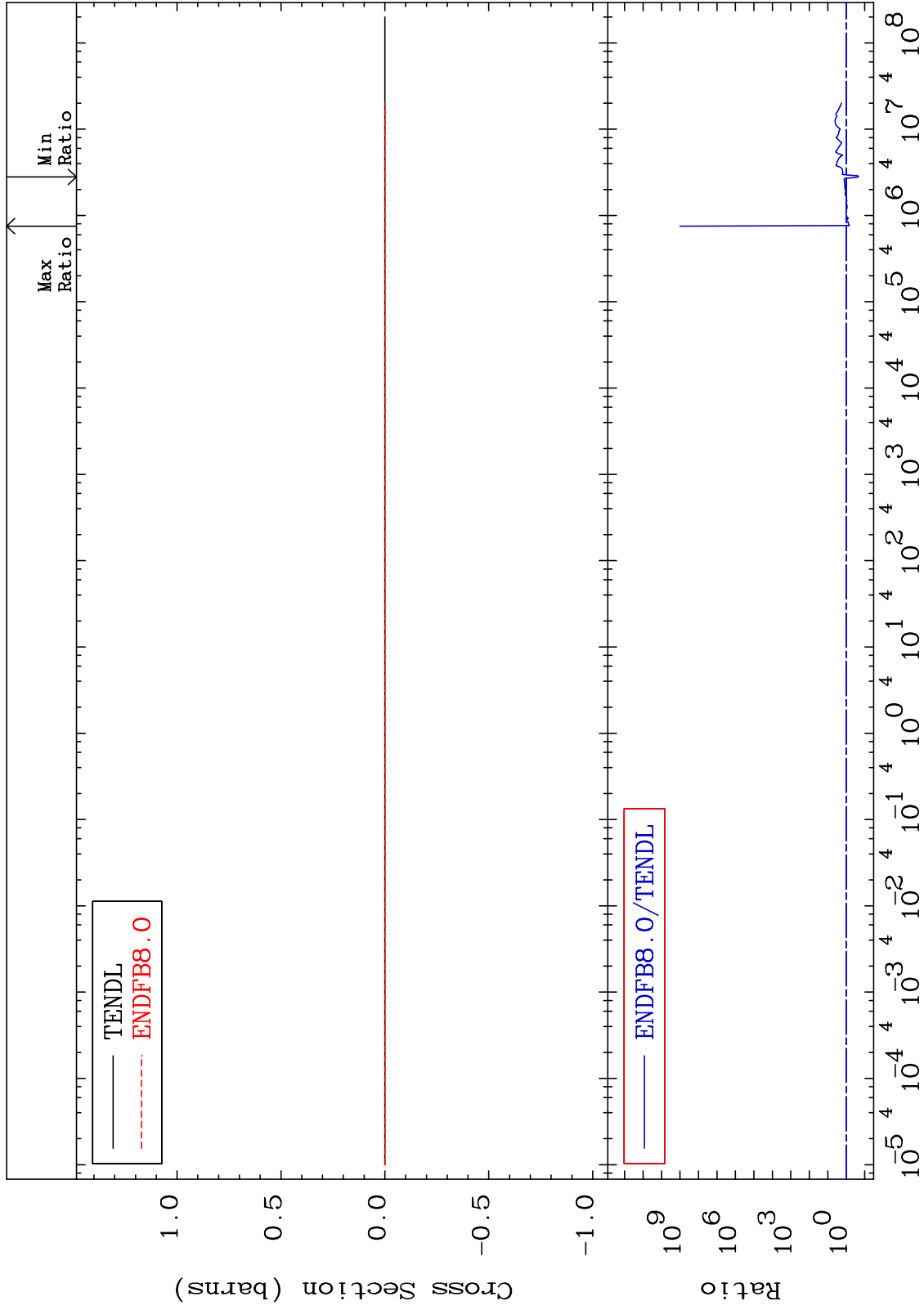
62-Sm-146
-78.16 To 9999. %



MAT 6231

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

62-Sm-146
-78.16 To 9999. %



48

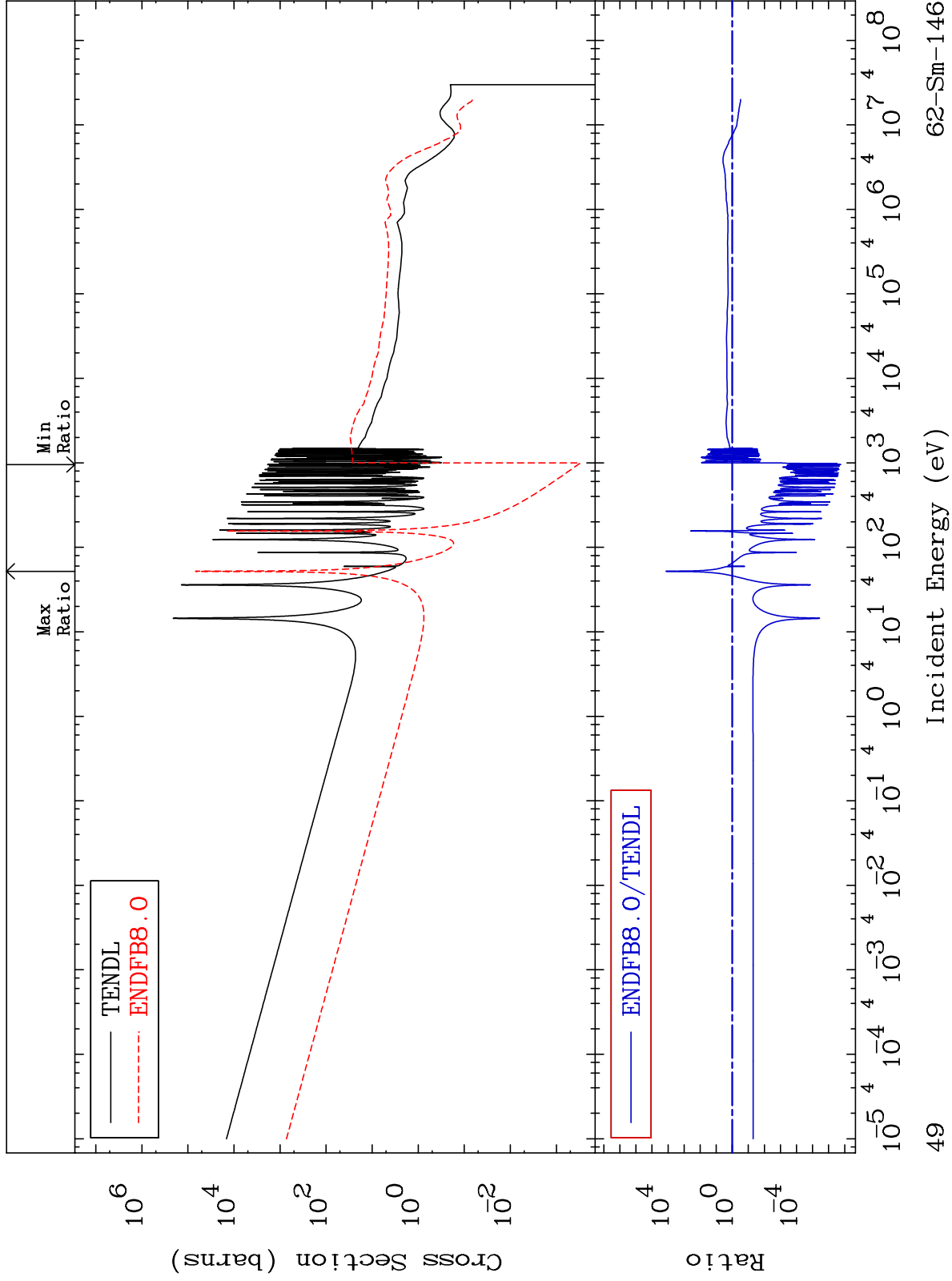
Incident Energy (eV)

62-Sm-146

MAT 6231

Kerma capture (mt102)
Cross Section

62-Sm-146
-100.0 To 9999. %

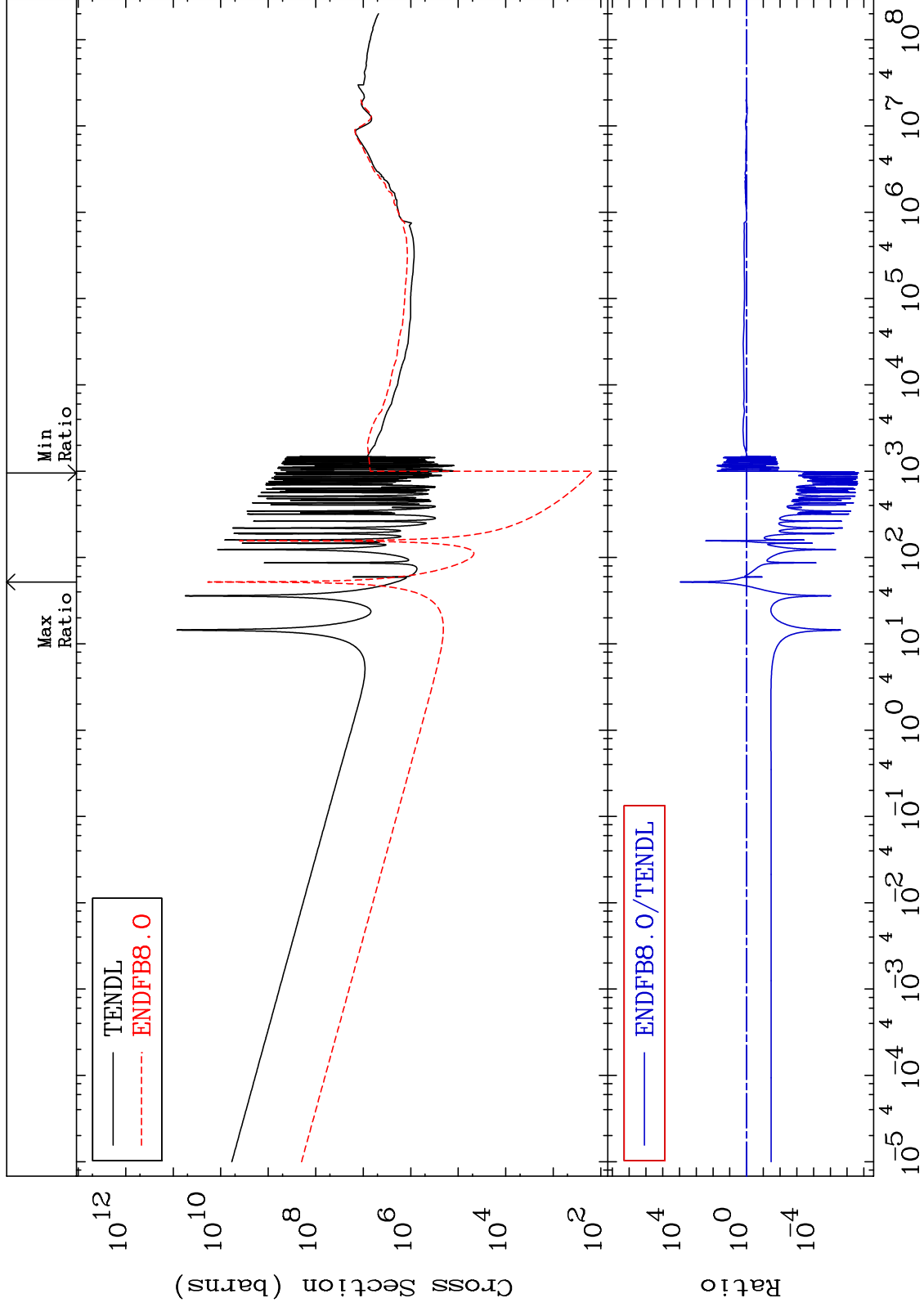


MAT 6231

Total photon (eV-barns)
Cross Section

62-Sm-146

-100.0 To 9999. %



50

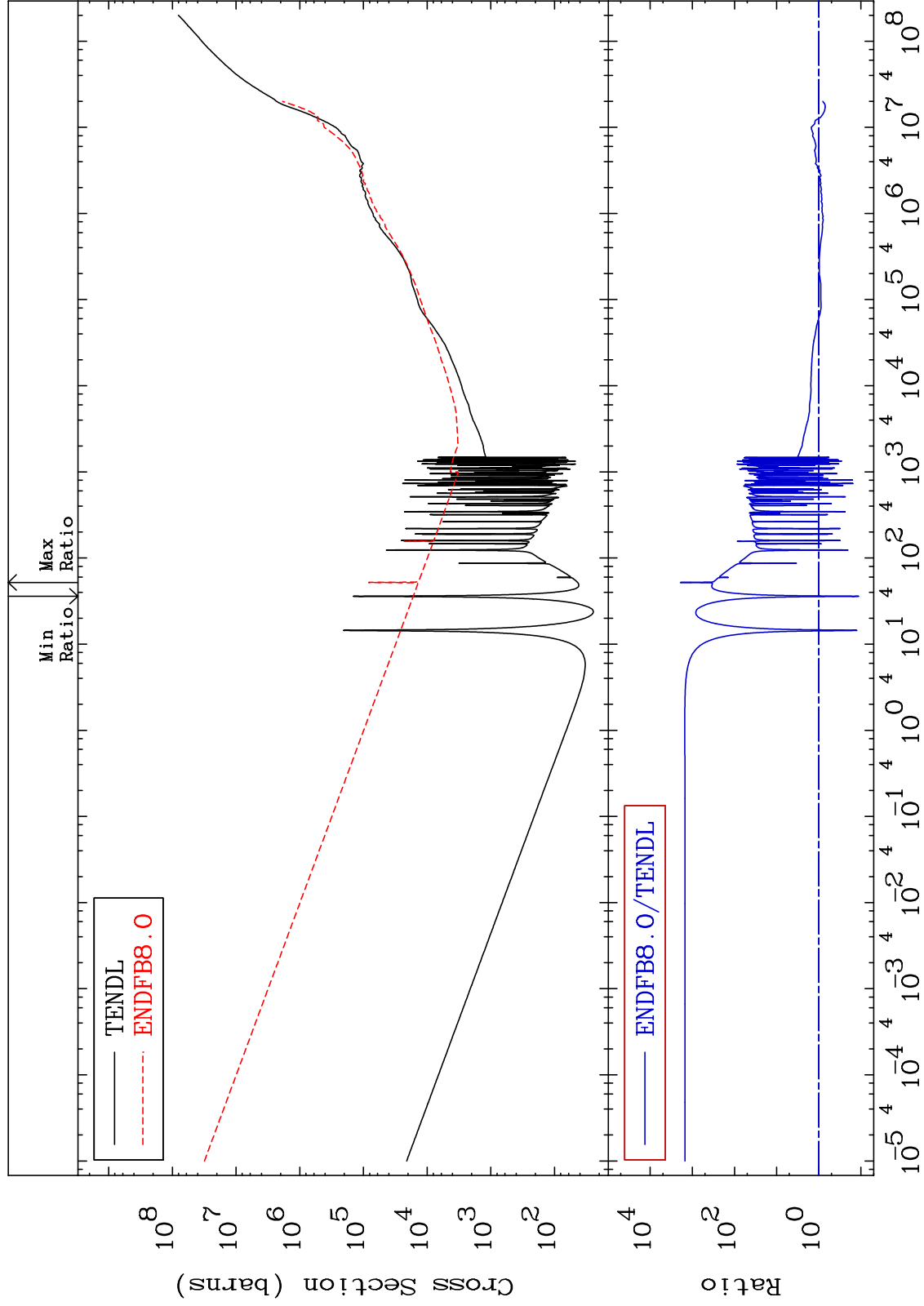
Incident Energy (eV)

62-Sm-146

MAT 6231

Total kinematic kerma (high limit)
Cross Section

62-Sm-146
-88.57 To 9999. %



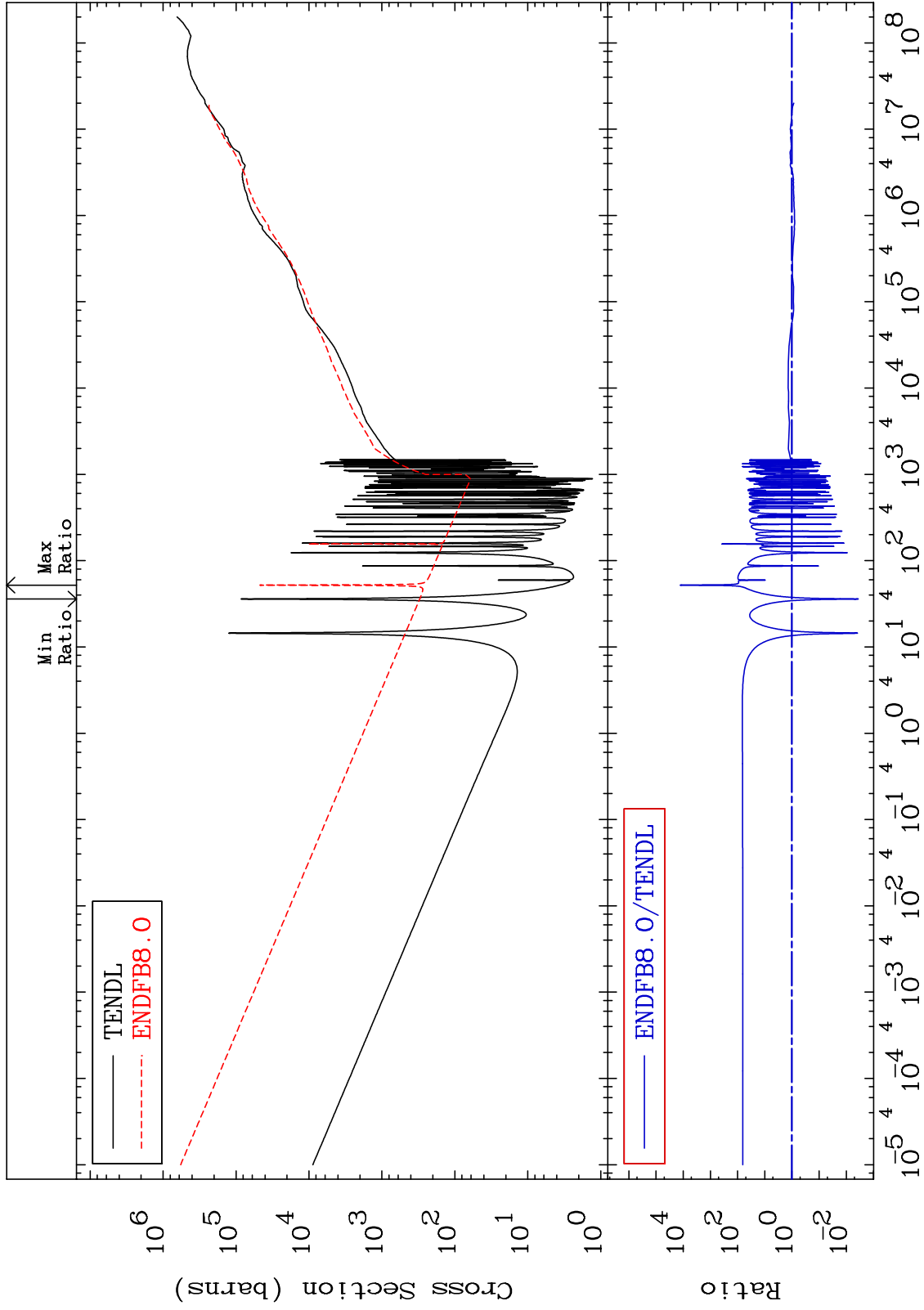
MAT 6231

Dpa total (eV-barns)

62-Sm-146

-99.64 To 9999. %

Cross Section



52

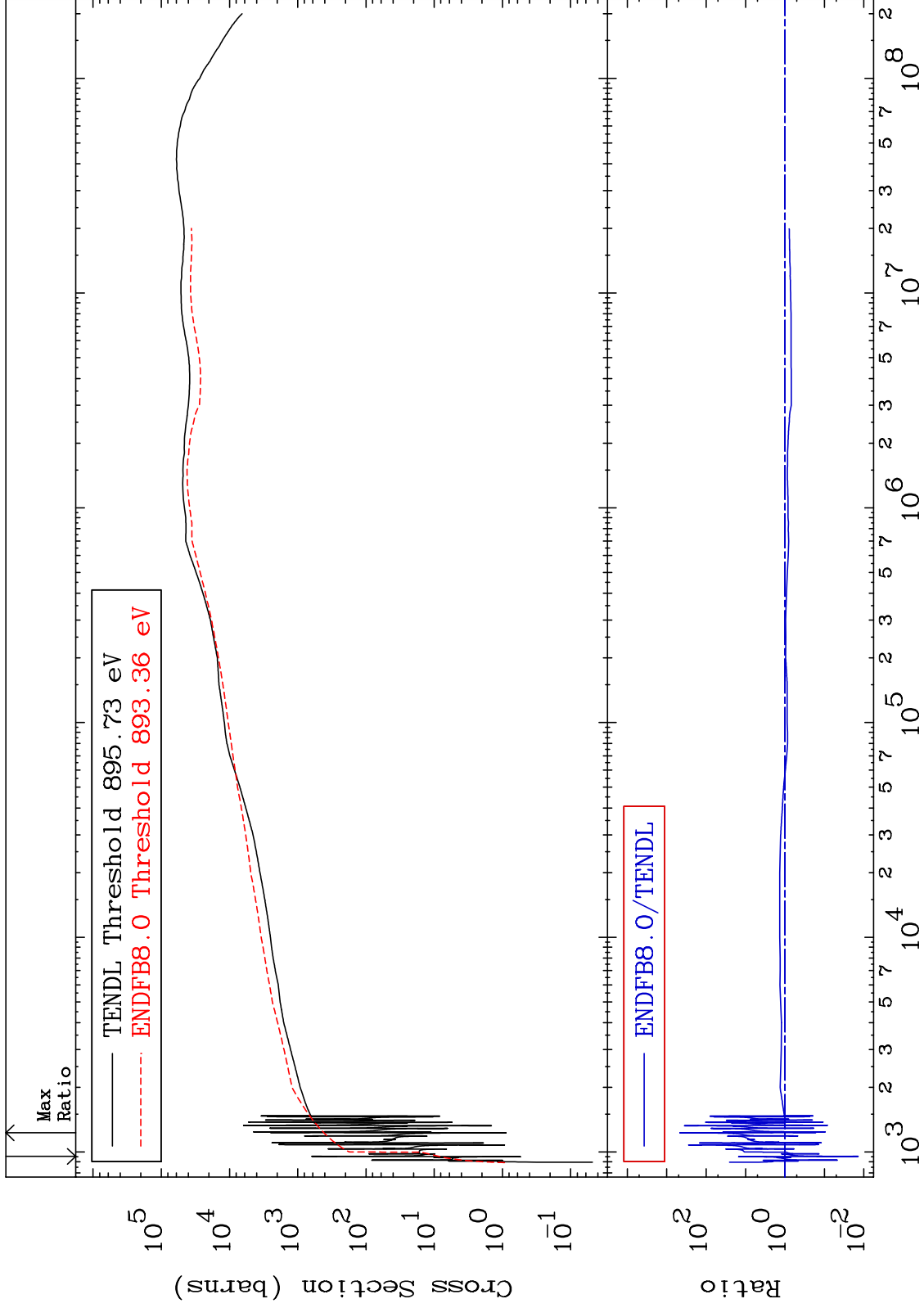
Incident Energy (eV)

62-Sm-146

MAT 6231

Dpa elastic (mt2)
Cross Section

62-Sm-146
-98.63 To 9999. %



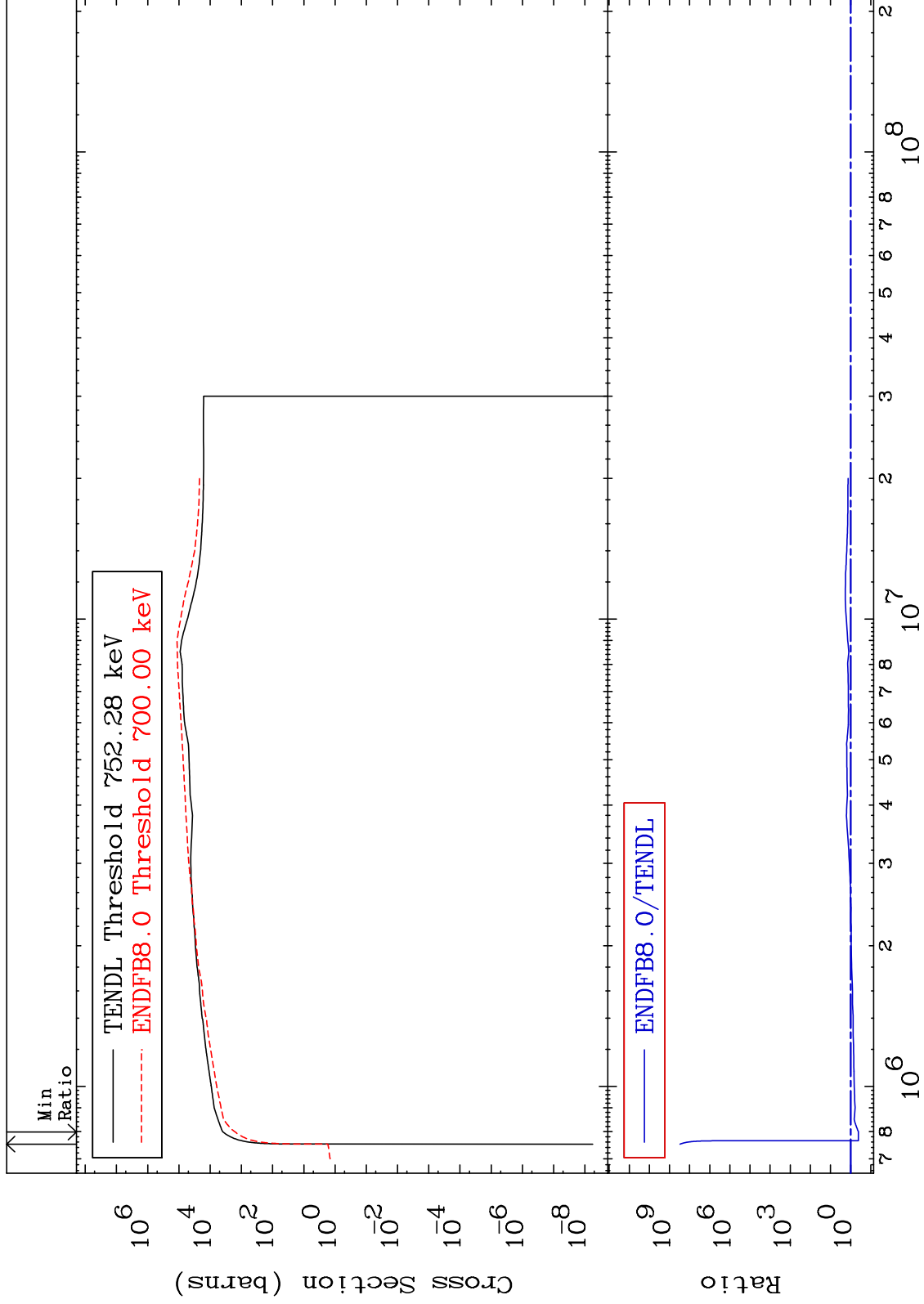
53

62-Sm-146

MAT 6231

Dpa inelastic (mt51-91)
Cross Section

62-Sm-146
-58.97 To 9999. %



MAT 6231

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-146
-99.64 To 9999. %

