

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

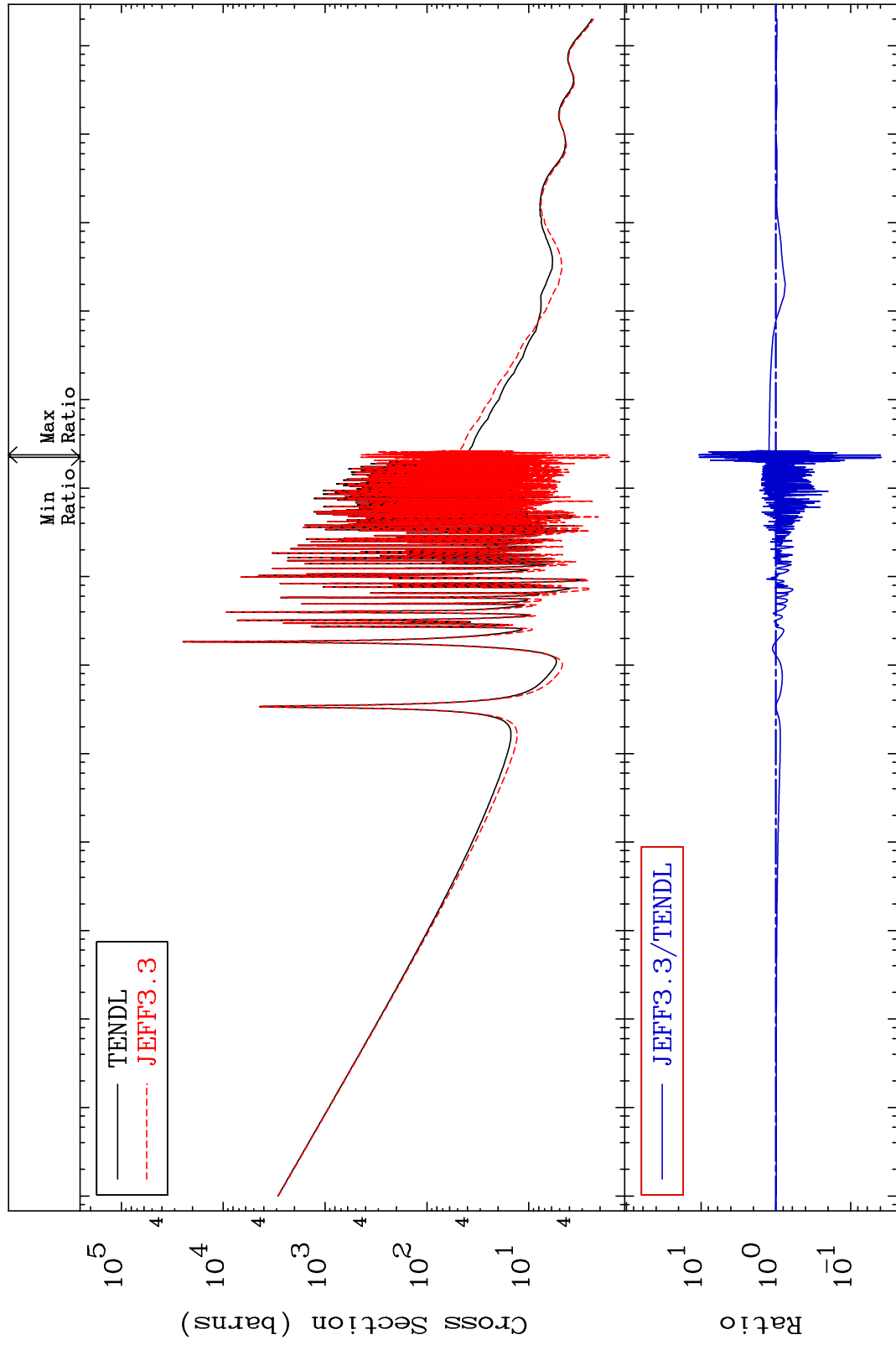
MAT 6234

Total

62-Sm-147

Cross Section

-96.15 To 975.9 %



Incident Energy (eV)

62-Sm-147

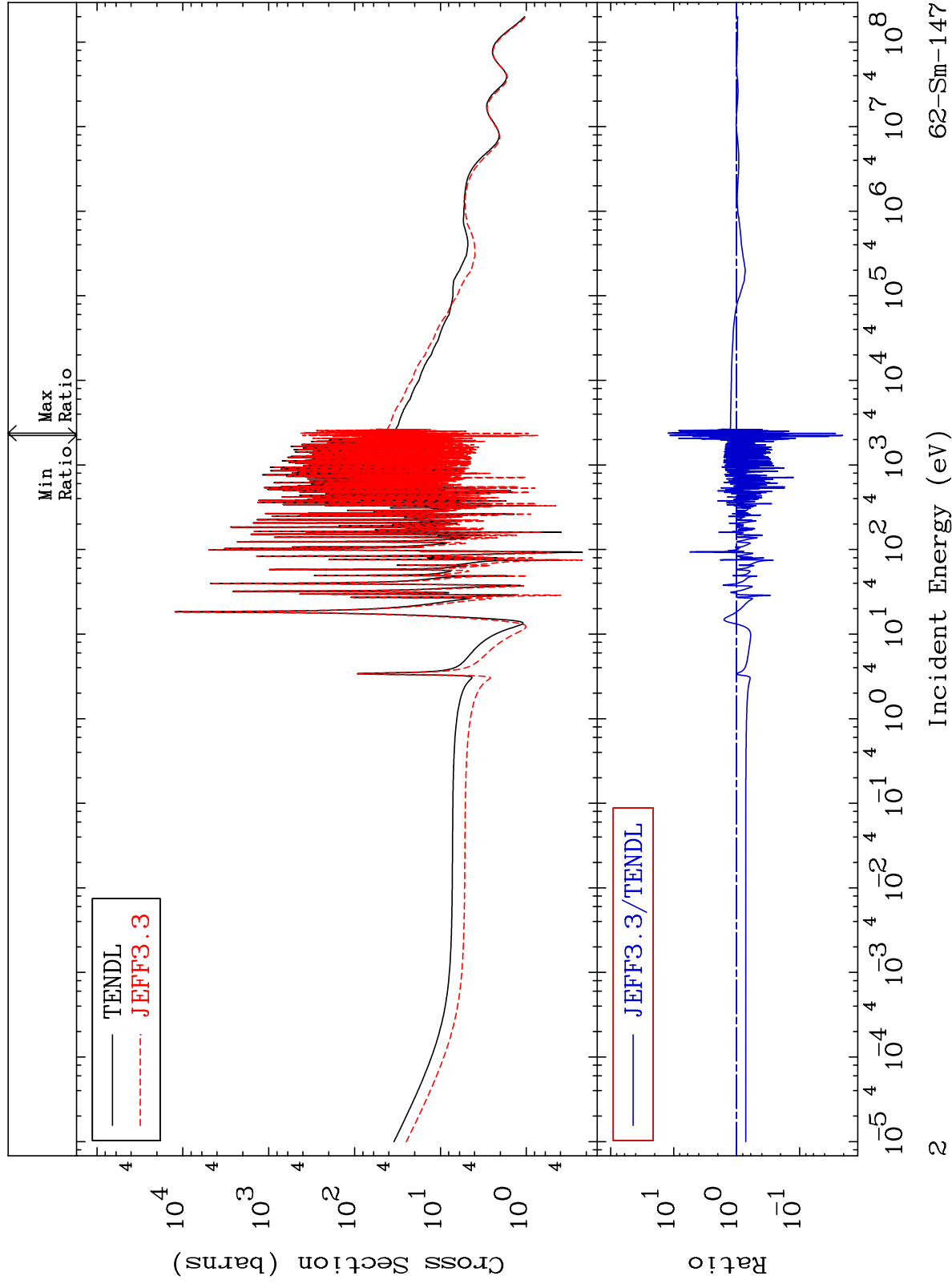
MAT 6234

Elastic

Cross Section

62-Sm-147

-97.94 To 1128. %



62-Sm-147

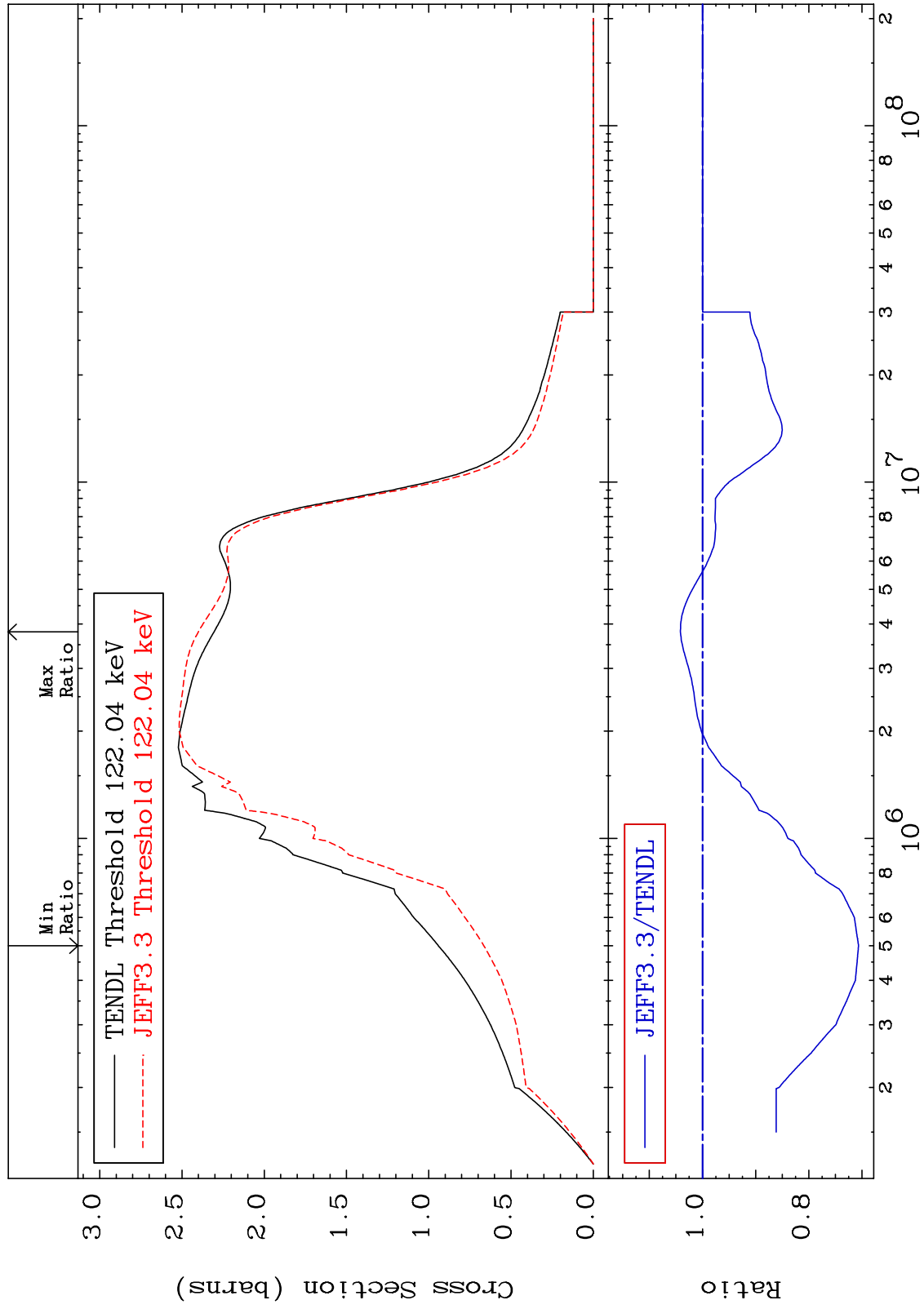
Incident Energy (eV)

2

MAT 6234

Inelastic
Cross Section

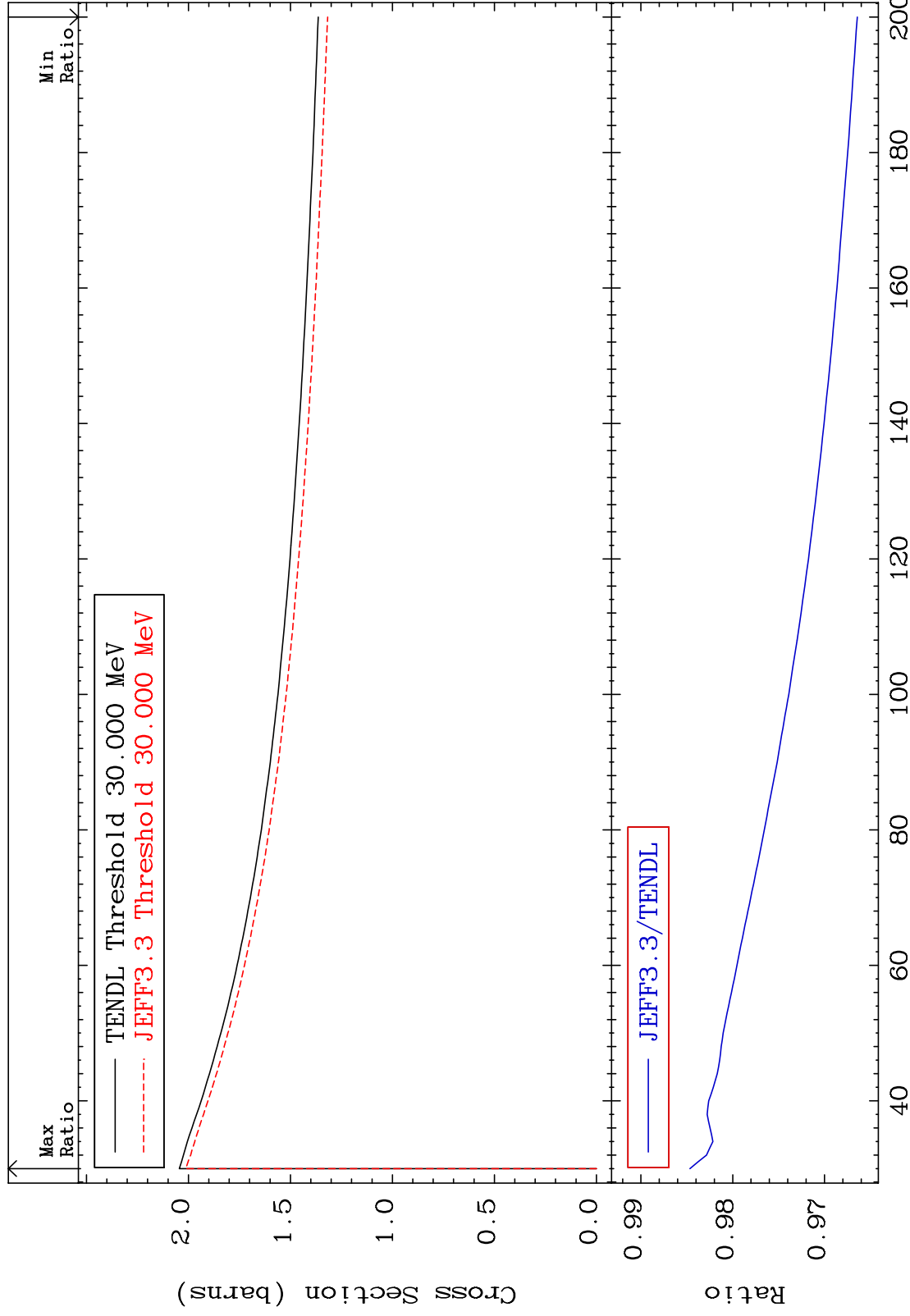
62-Sm-147
-29.35 To 4.146 %



MAT 6234

(n, remainder)
Cross Section

62-Sm-147
-3.358 To -1.533%



MAT 6234

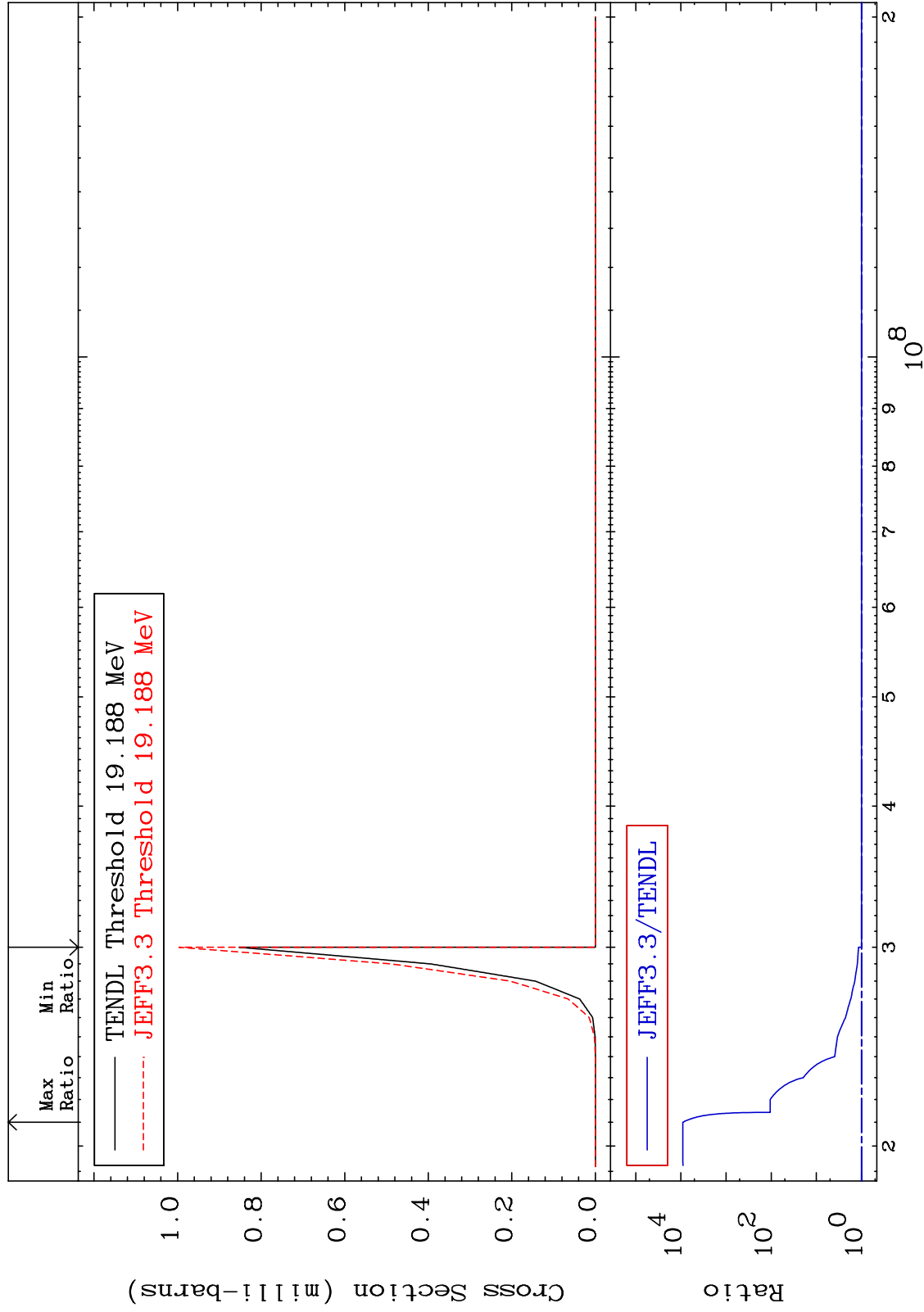
(n,2n) d

62-Sm-147

Cross Section

0.000

To 9999. %



62-Sm-147

Incident Energy (eV)

5

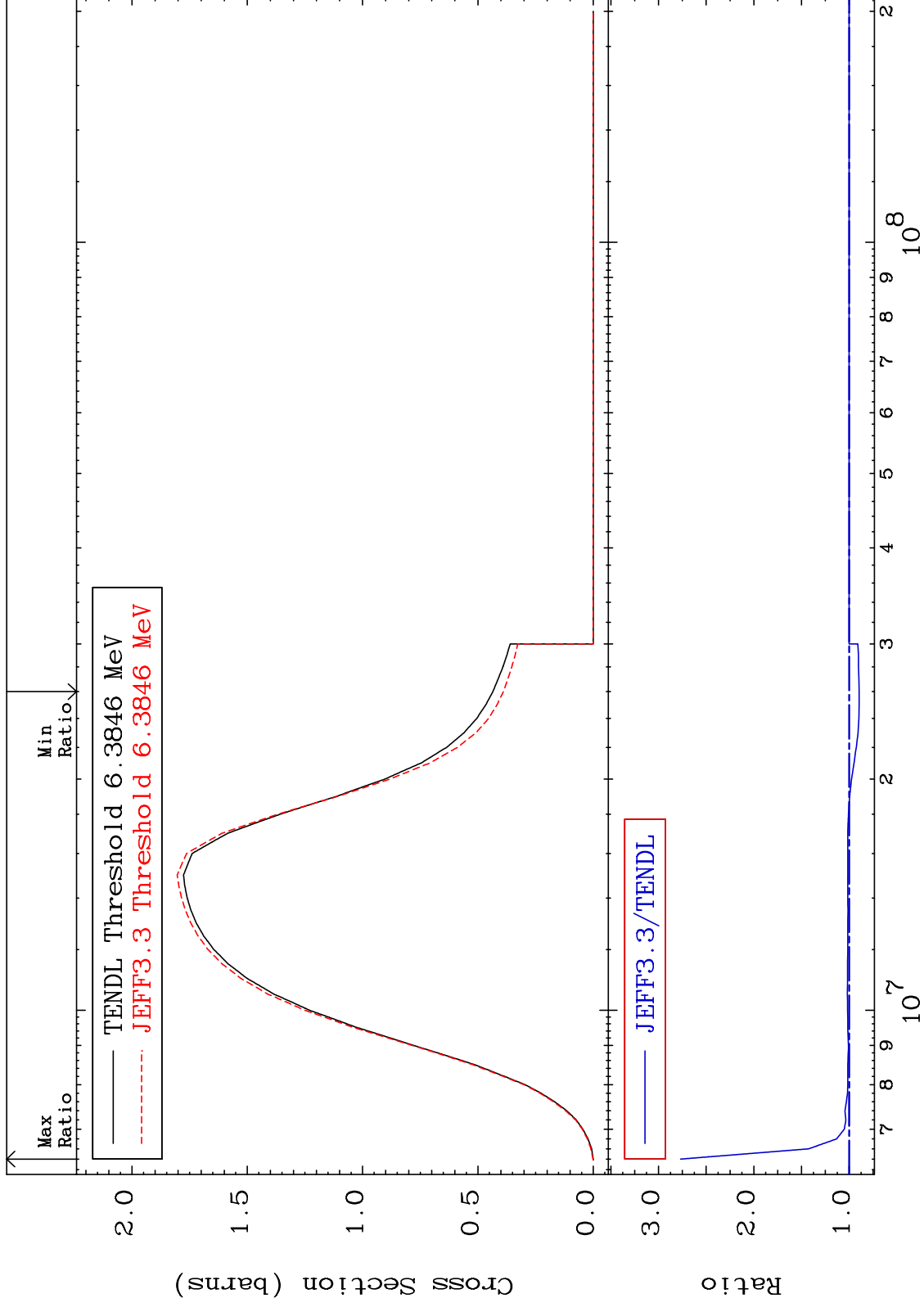
MAT 6234

(n, 2n)

62-Sm-147

Cross Section

-10.47 To 176.8 %



6

Incident Energy (eV)

62-Sm-147

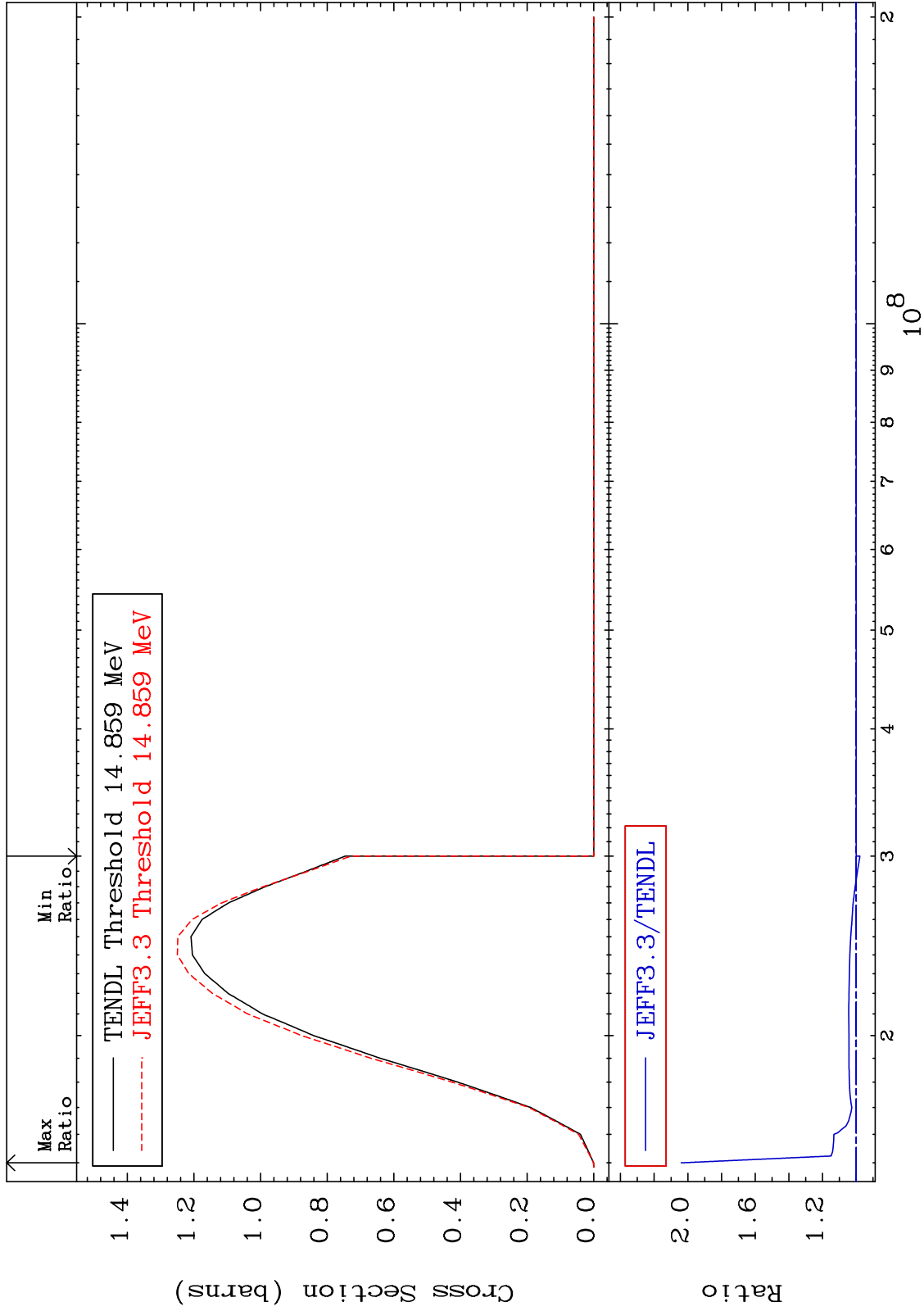
MAT 6234

(n, 3n)

62-Sm-147

Cross Section

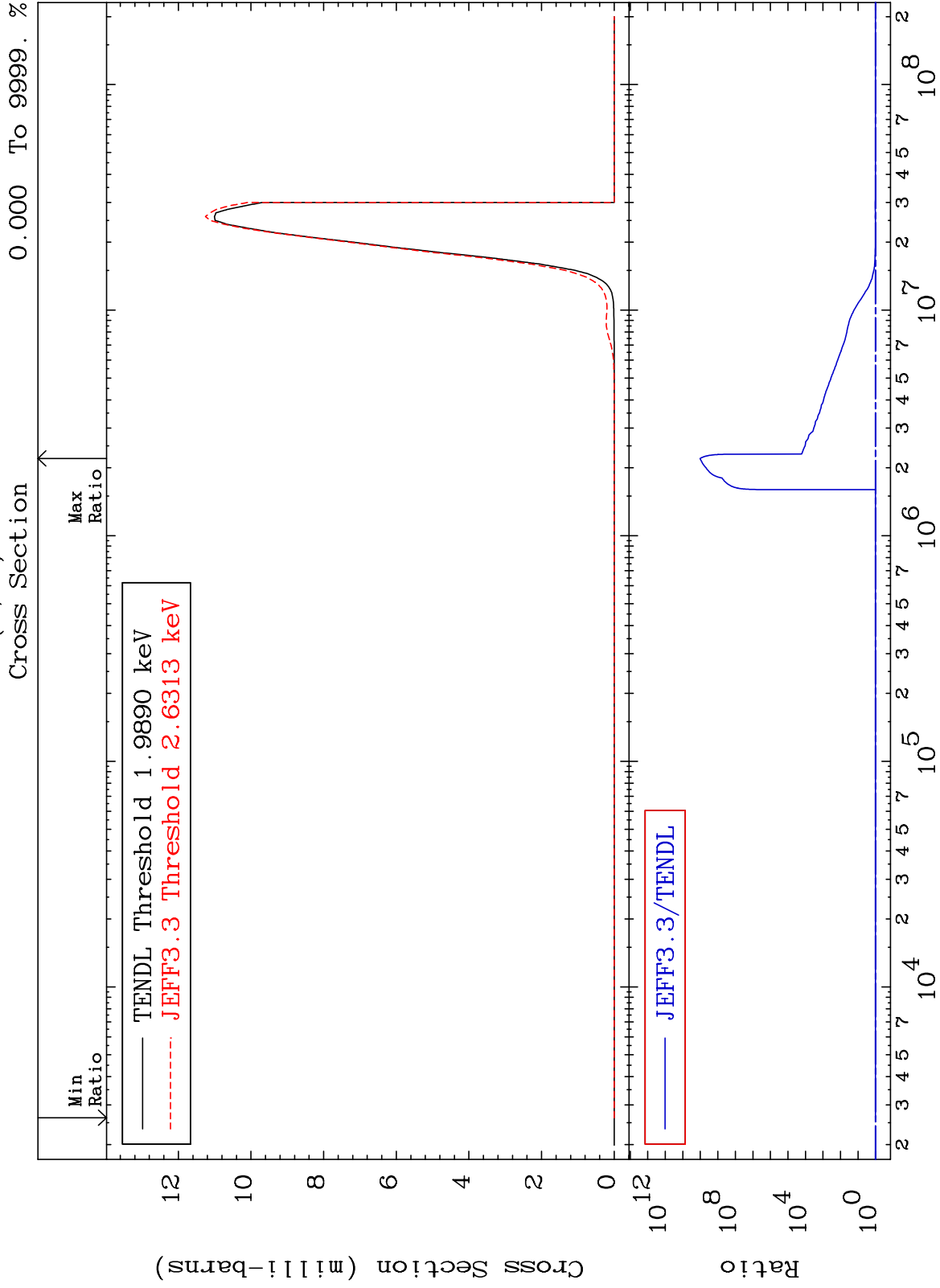
-2.179 To 103.9 %



MAT 6234

(n,n') α

62-Sm-147
To 9999. %
0.000



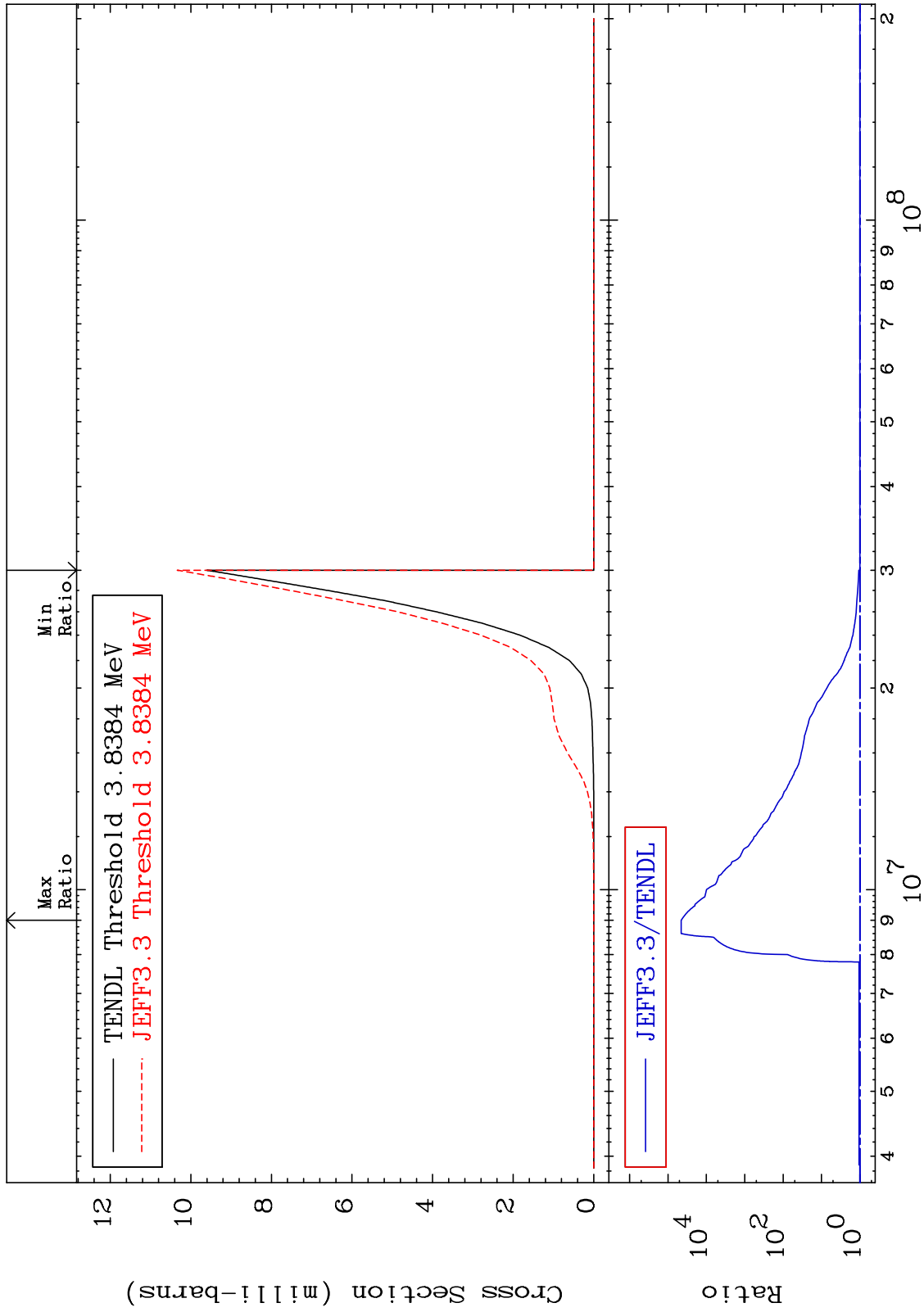
MAT 6234

(n,2n) α

62-Sm-147

Cross Section

0.000 To 9999. %



9

Incident Energy (eV)

62-Sm-147

MAT 6234

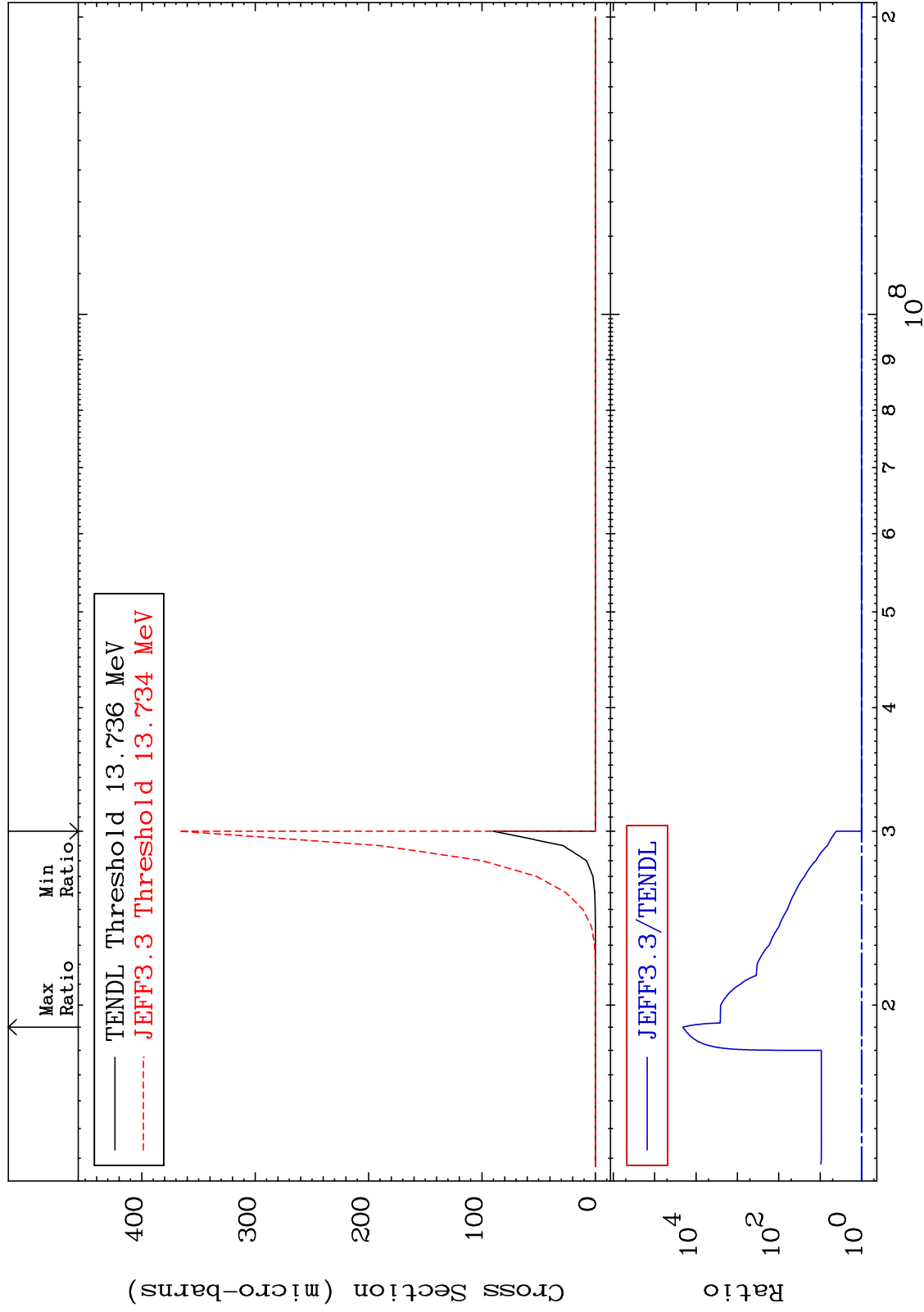
(n,3n) α

62-Sm-147

Cross Section

0.000

To 9999. %



10

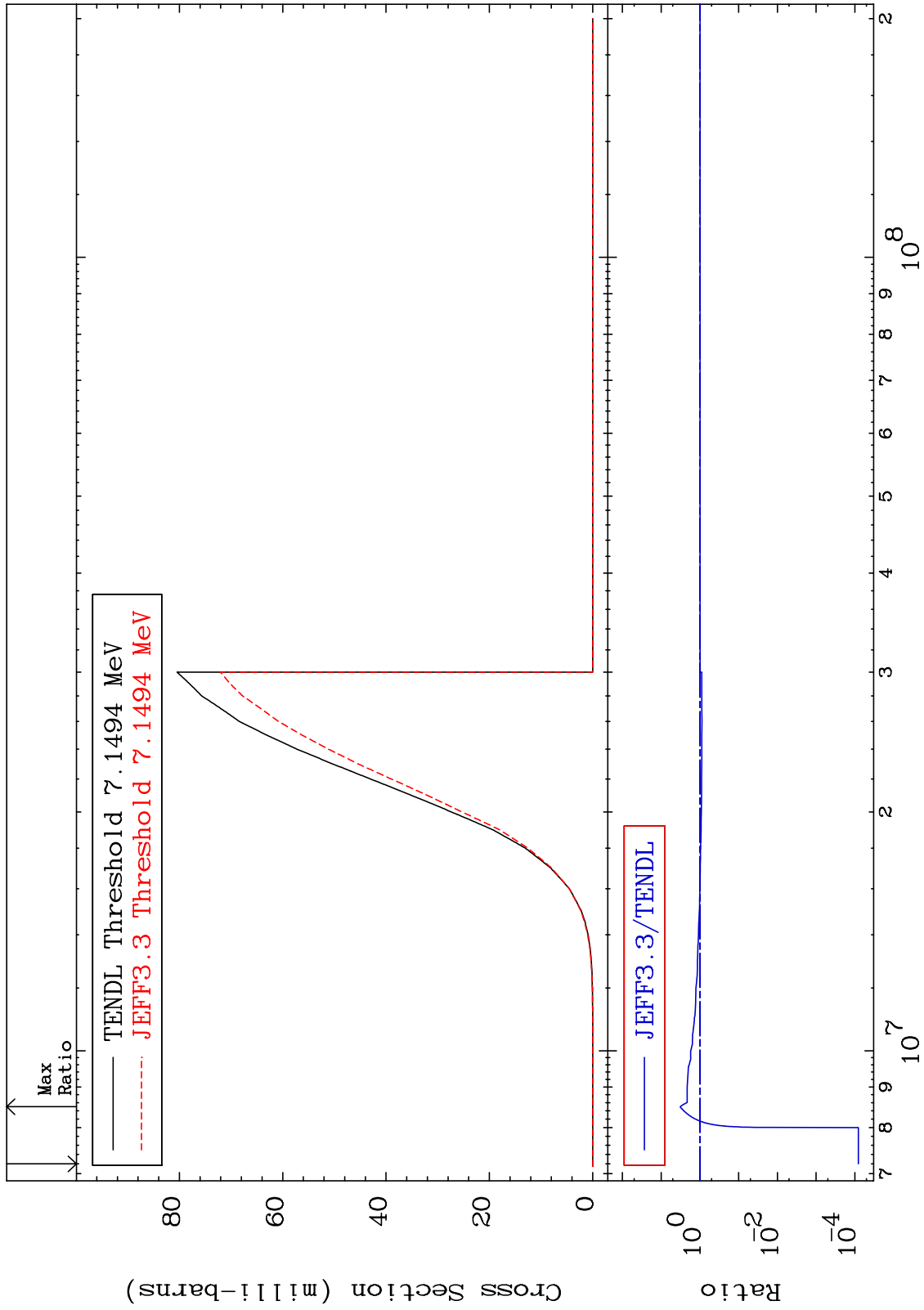
Incident Energy (eV)

62-Sm-147

MAT 6234

(n, n') p
Cross Section

62-Sm-147
-99.99 To 226.6 %



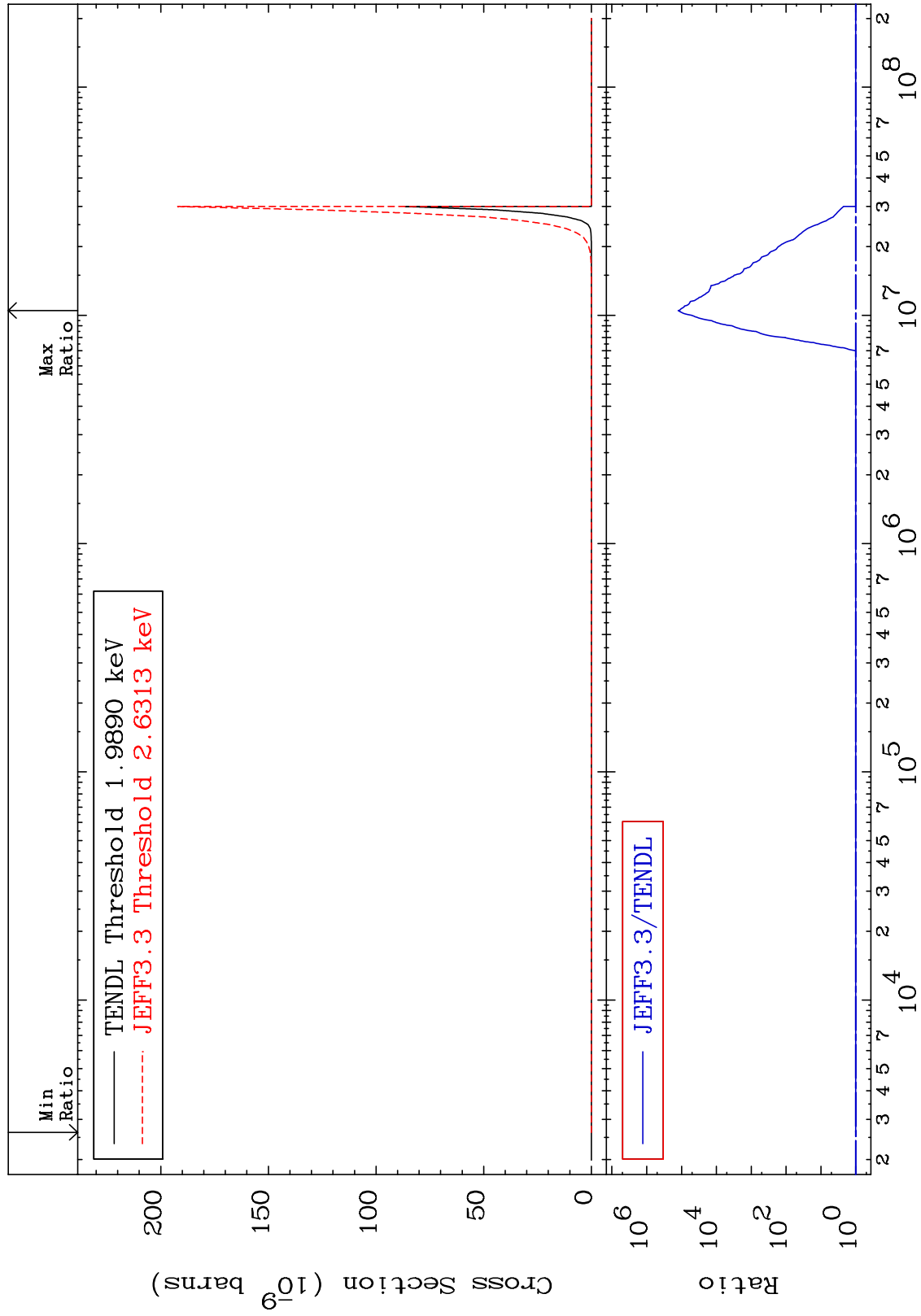
MAT 6234

(n, n') 2α

62-Sm-147

Cross Section

0.000 To 9999. %



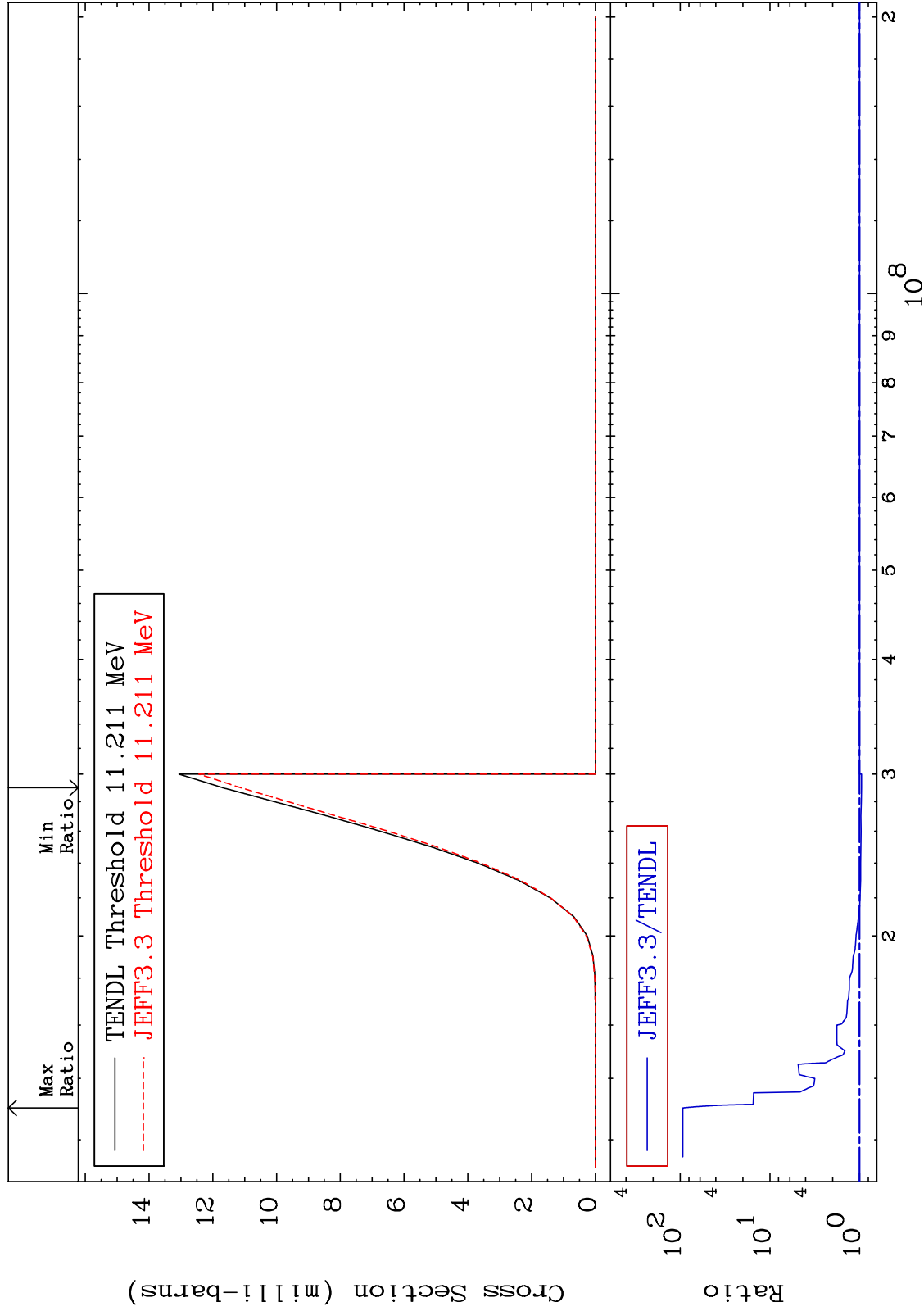
MAT 6234

(n,n') d

62-Sm-147

Cross Section

-4.813 To 9223. %



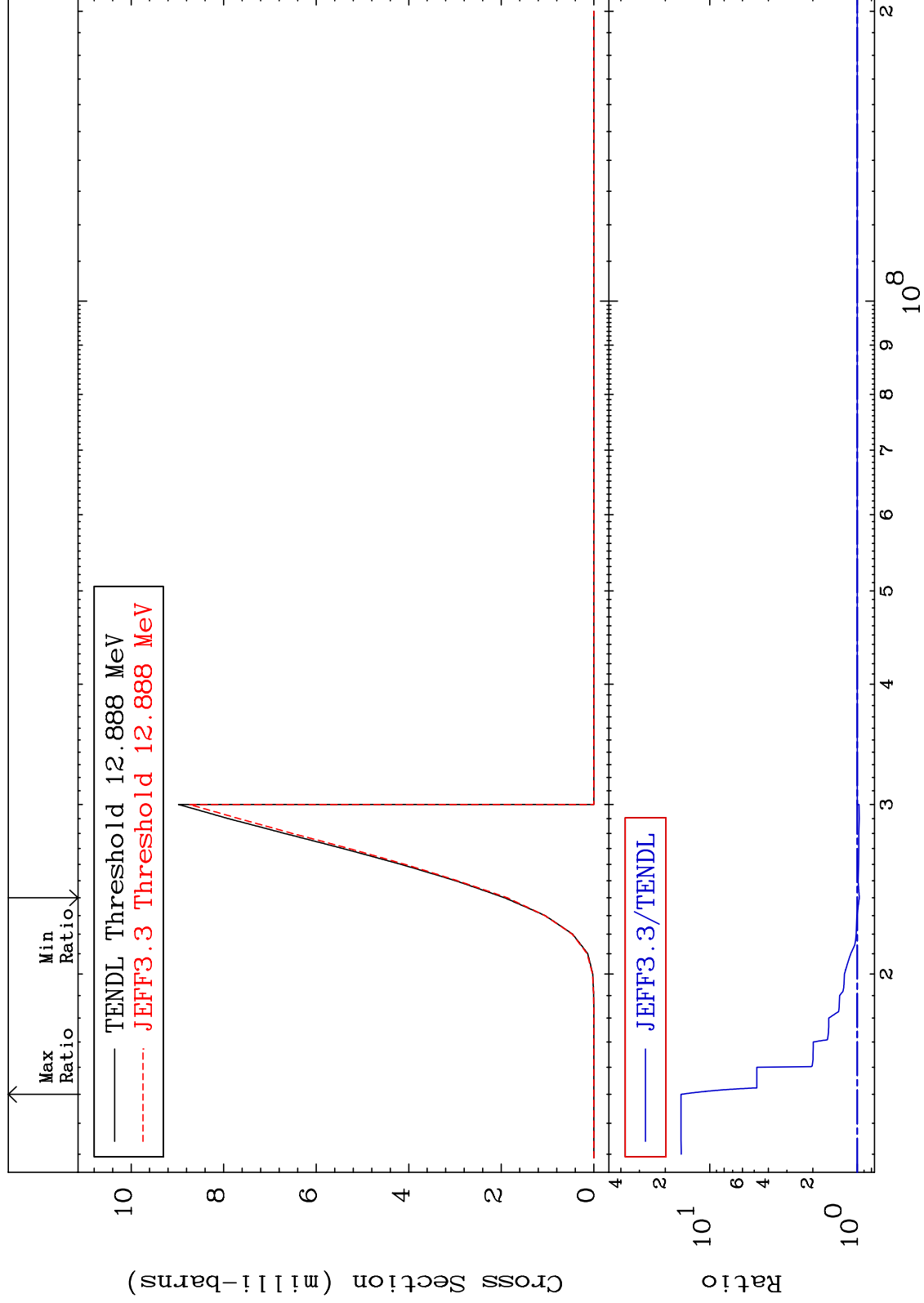
MAT 6234

(n, n') t

62-Sm-147

Cross Section

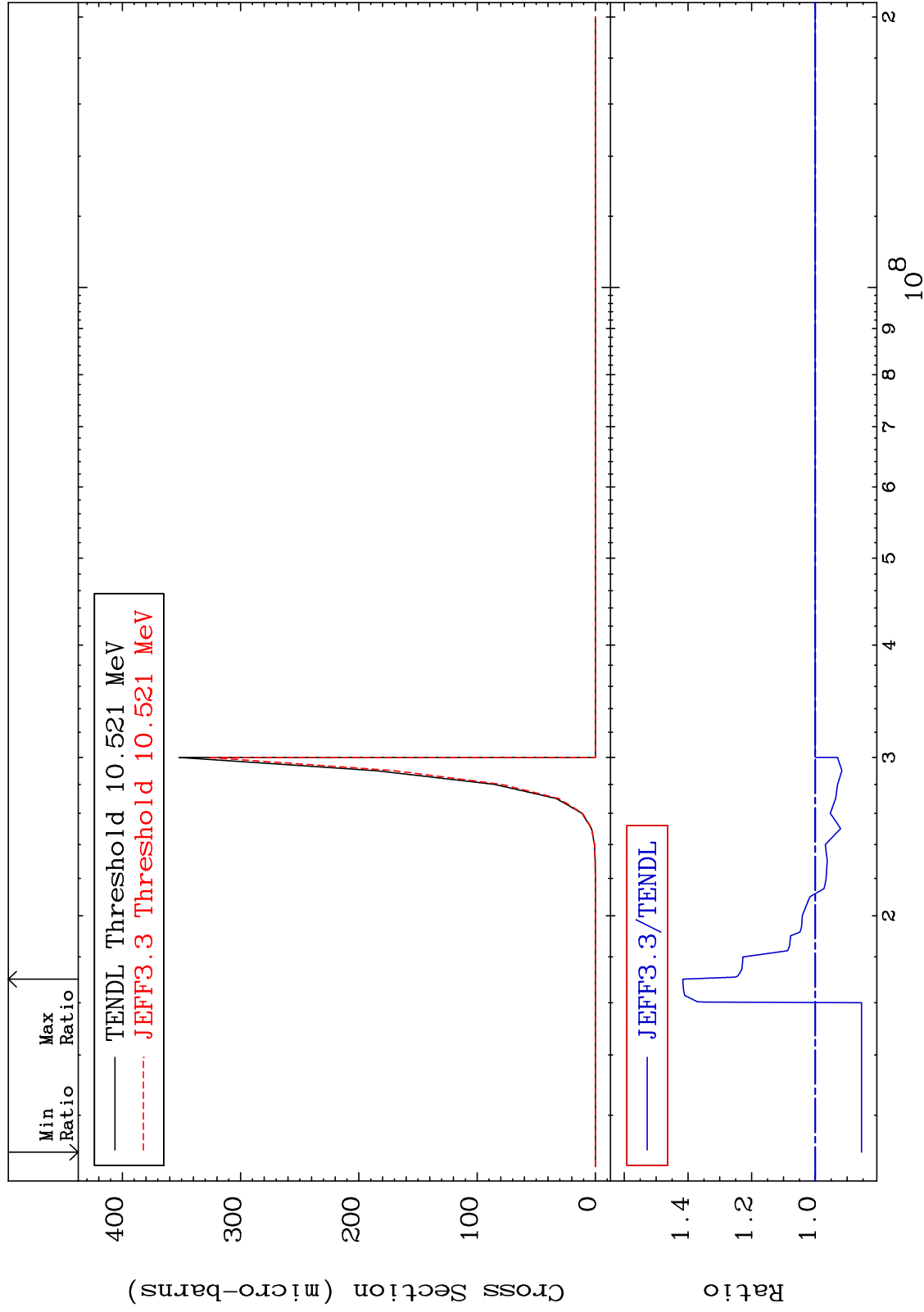
-3.125 To 1465. %



MAT 6234

(n, n') He-3
Cross Section

62-Sm-147
-14.53 To 41.61 %



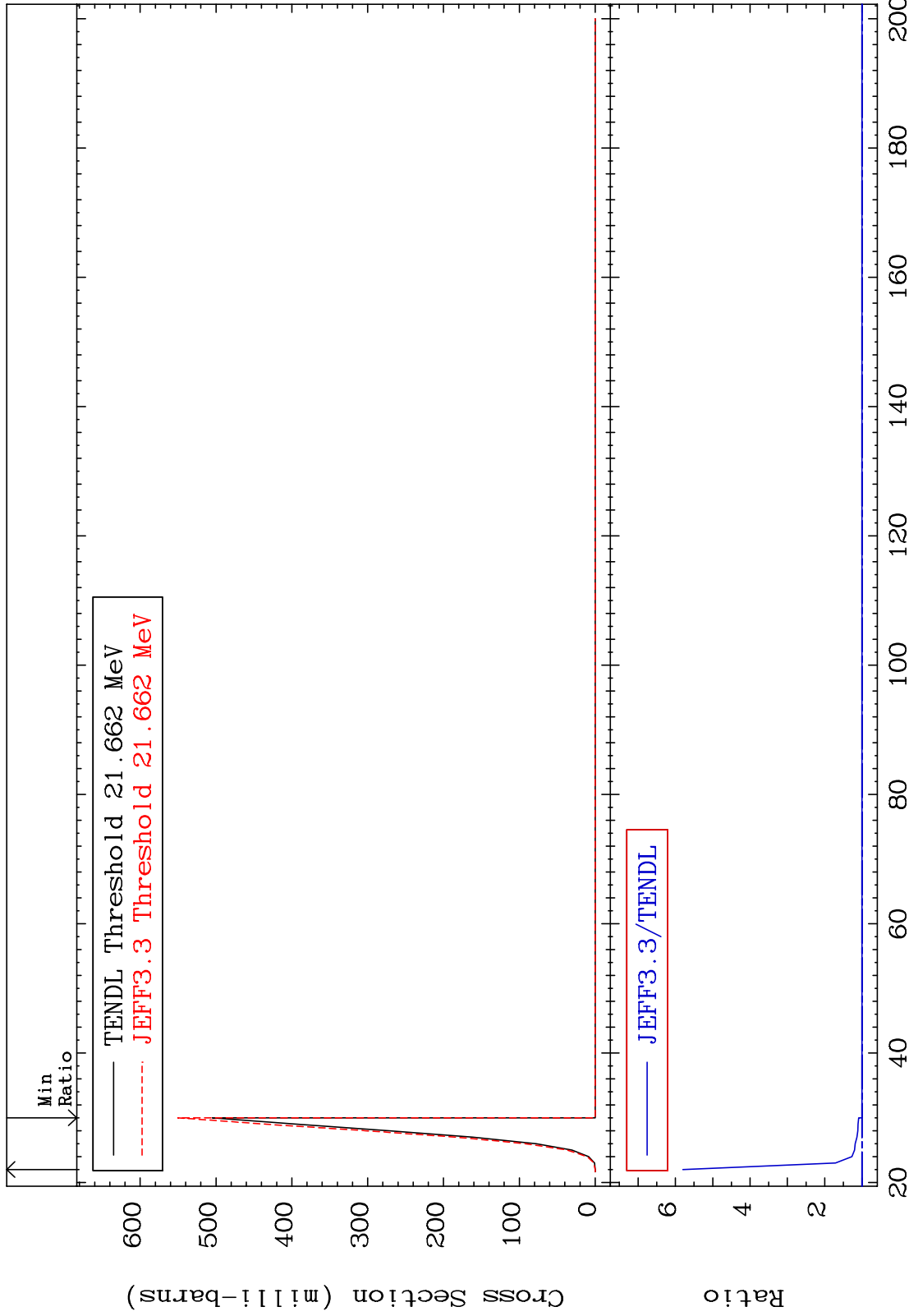
MAT 6234

(n, 4n)

62-Sm-147

Cross Section

0.000 To 479.9 %



16

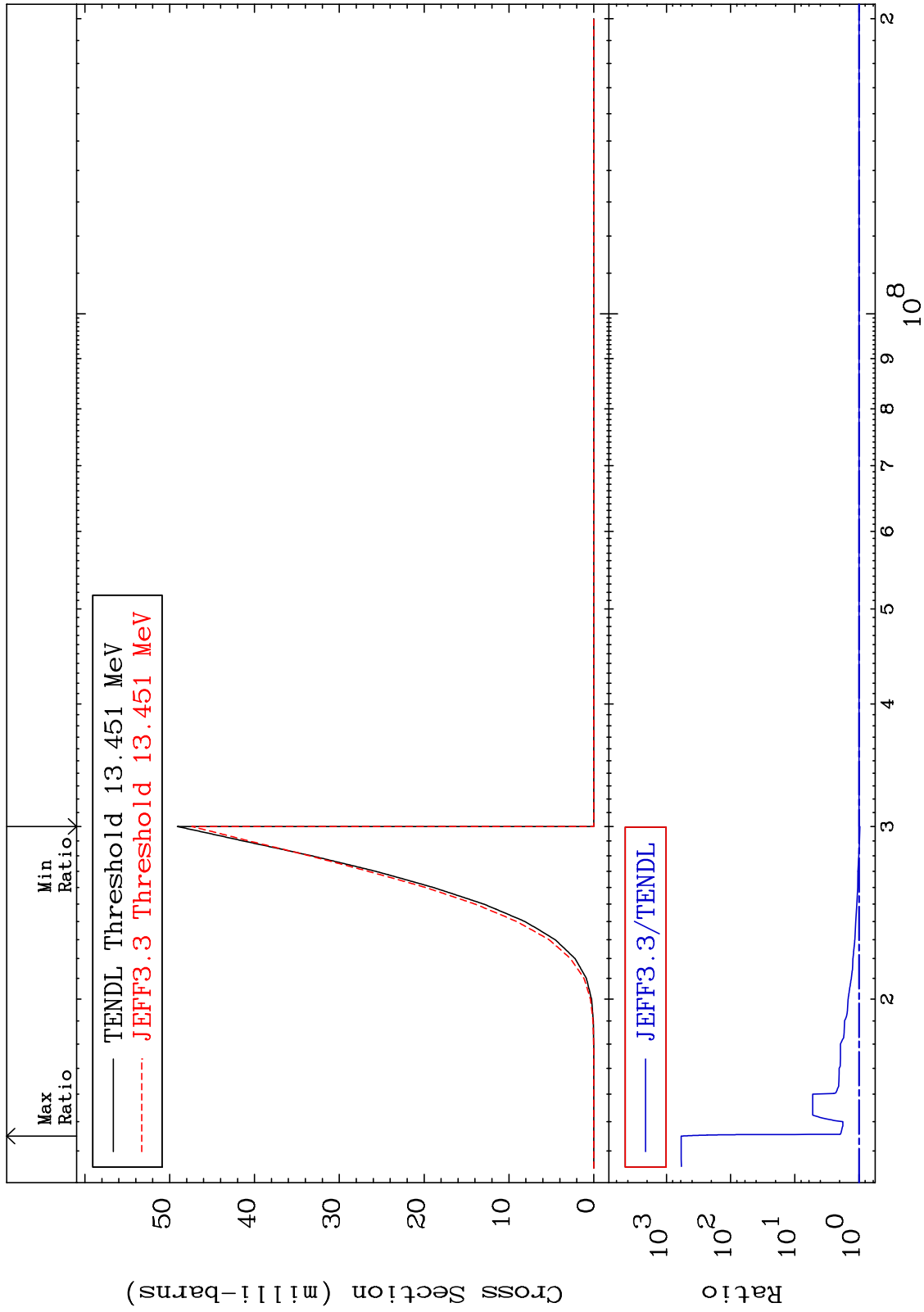
Incident Energy (MeV)

62-Sm-147

MAT 6234

(n,2n) p
Cross Section

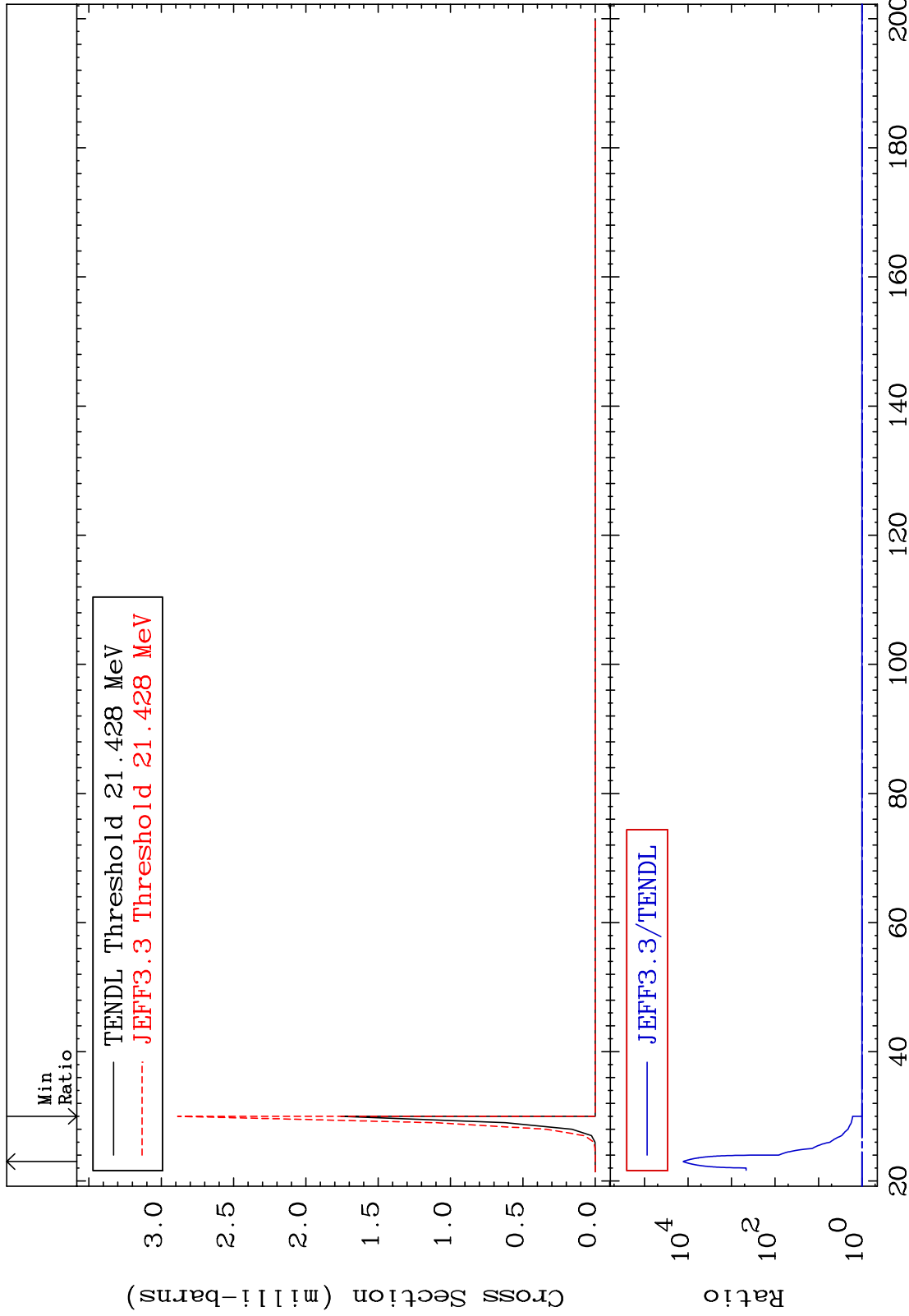
62-Sm-147
-3.449 To 9999. %



MAT 6234

(n,3n) p
Cross Section

62-Sm-147
0.000 To 9999. %



62-Sm-147

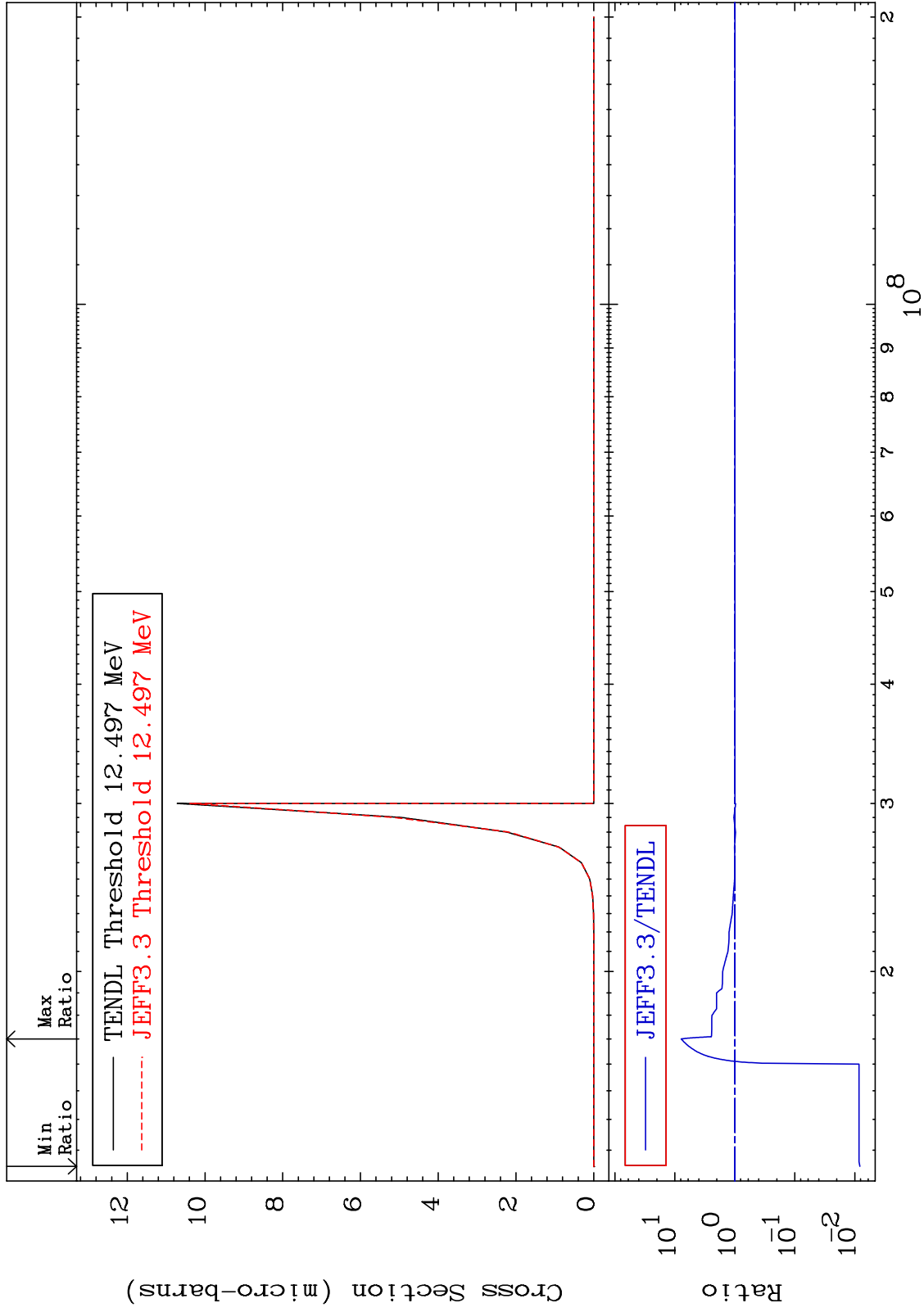
MAT 6234

(n,2n) p

62-Sm-147

Cross Section

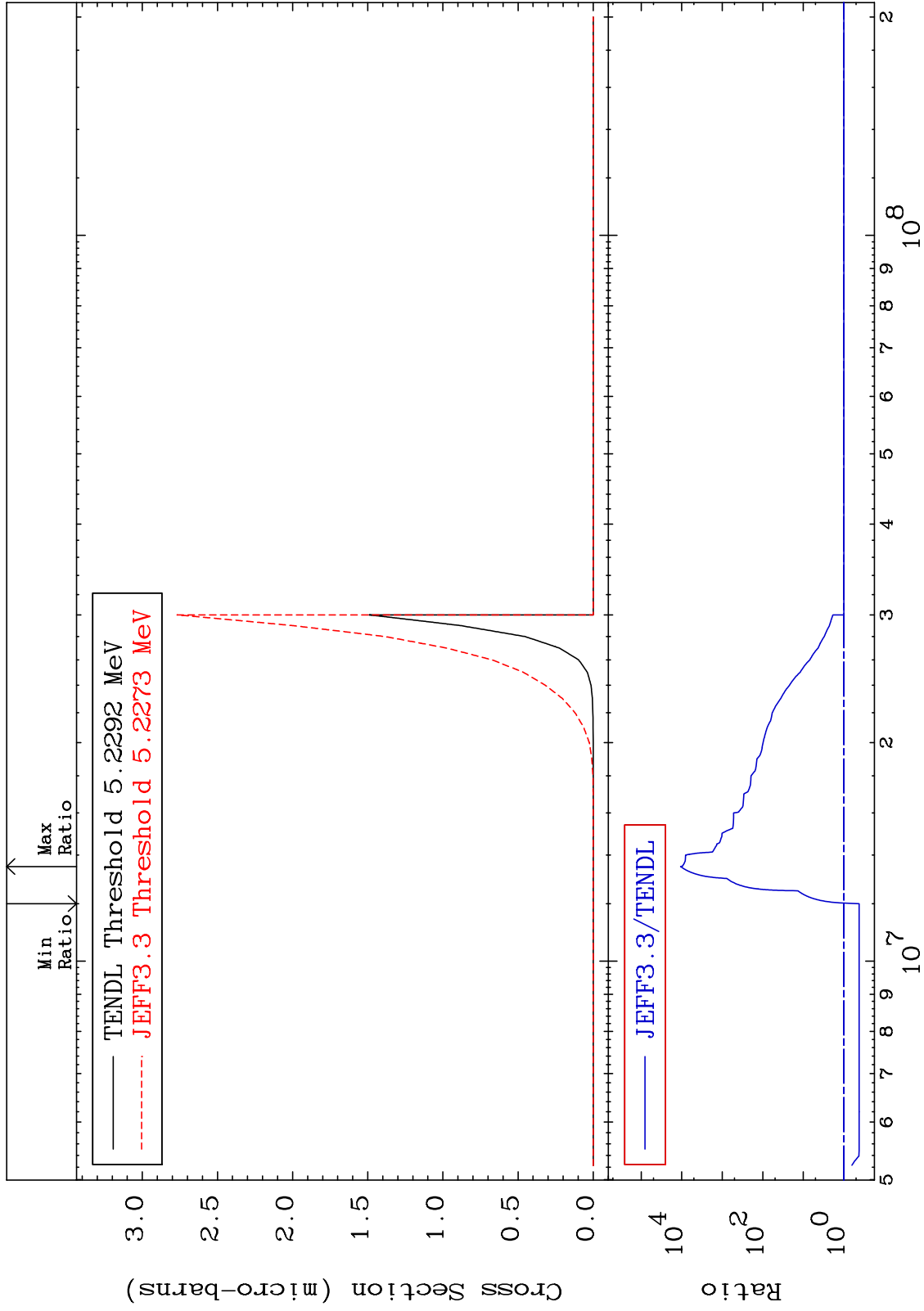
-99.18 To 684.2 %



MAT 6234

(n,n') p α
Cross Section

62-Sm-147
-58.17 To 9999. %



20

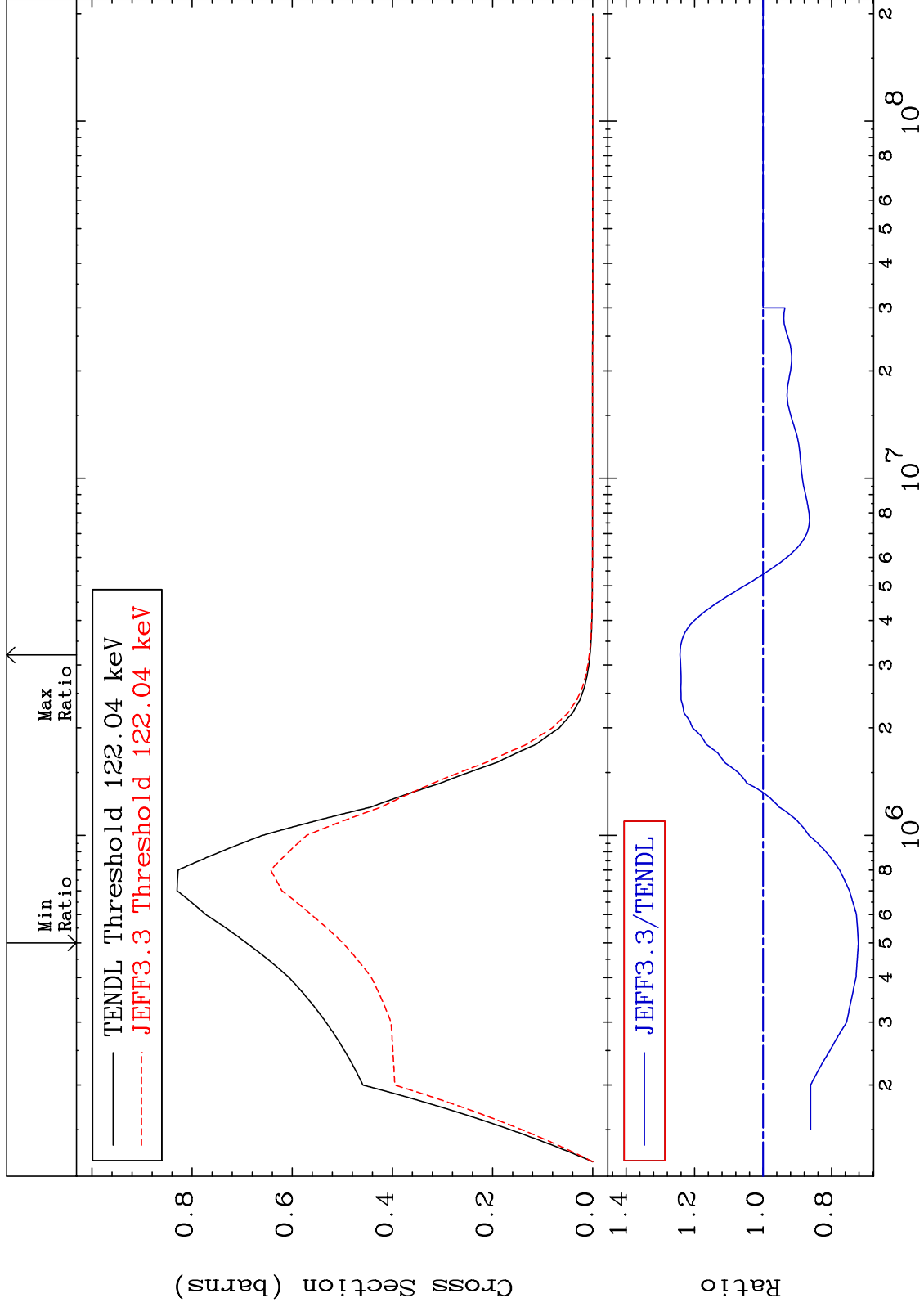
Incident Energy (eV)

62-Sm-147

MAT 6234

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

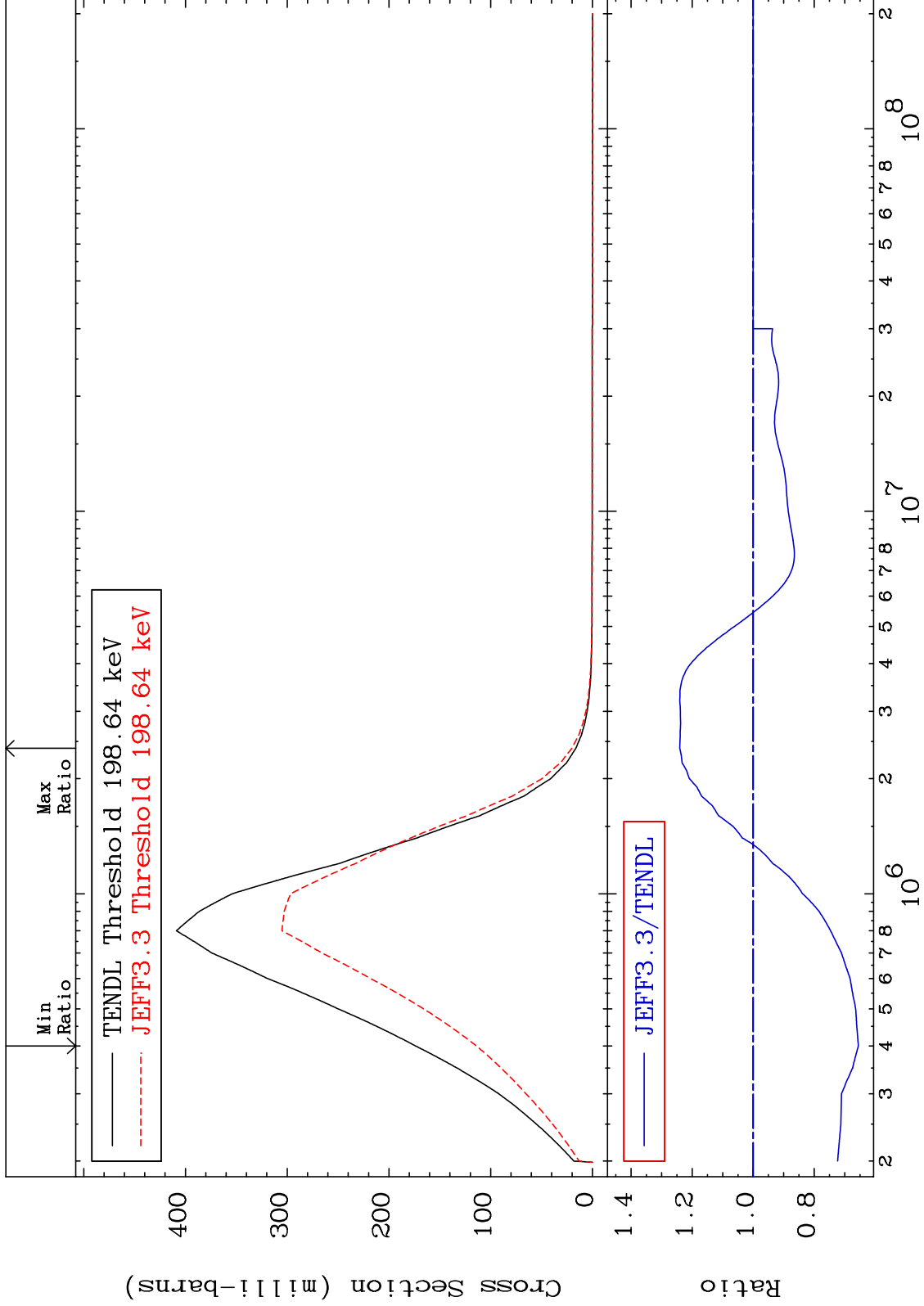
62-Sm-147
-27.82 To 24.28 %



MAT 6234

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

62-Sm-147
-34.46 To 24.05 %



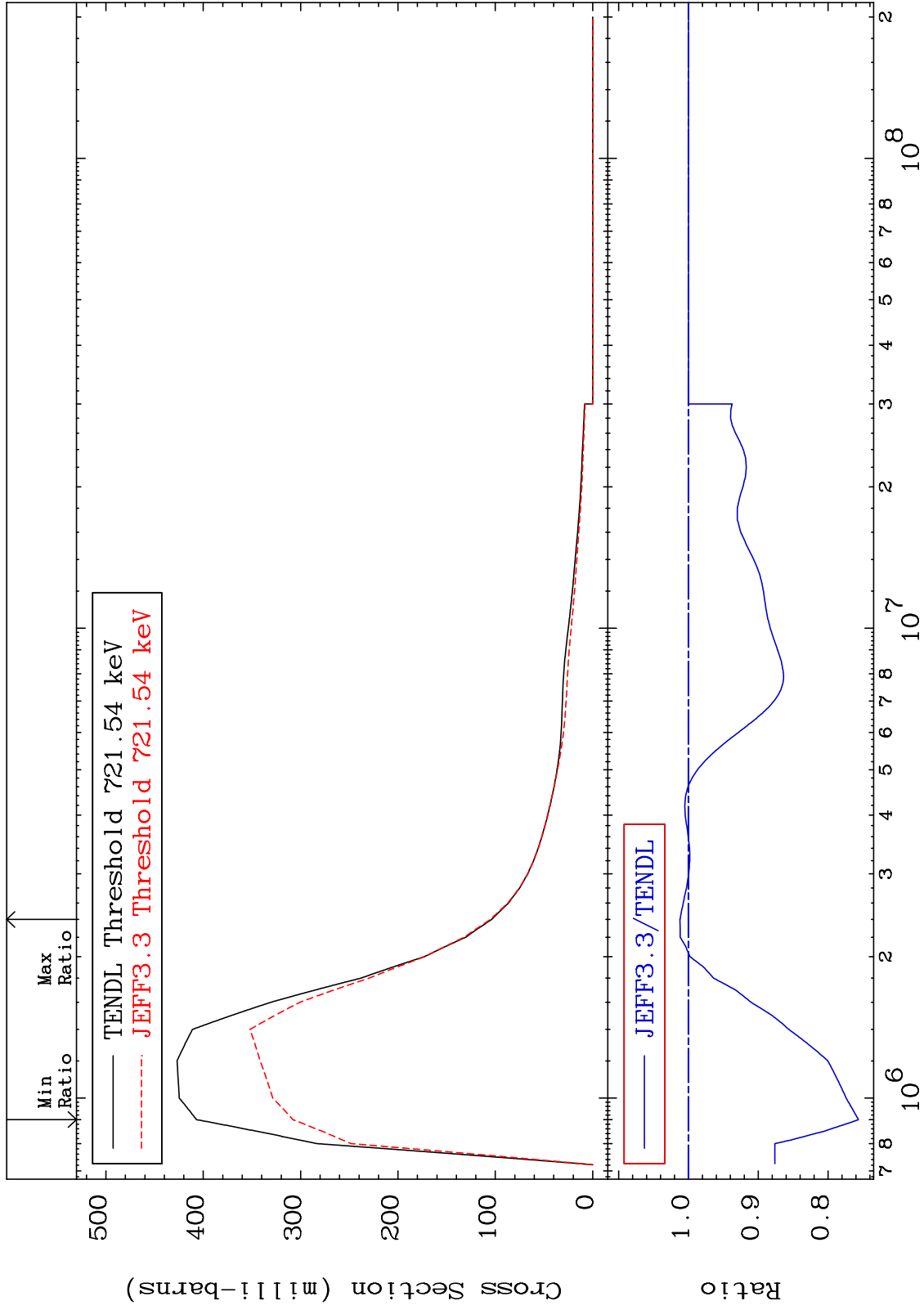
22

62-Sm-147

MAT 6234

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

62-Sm-147
-24.36 To 1.199 %



23

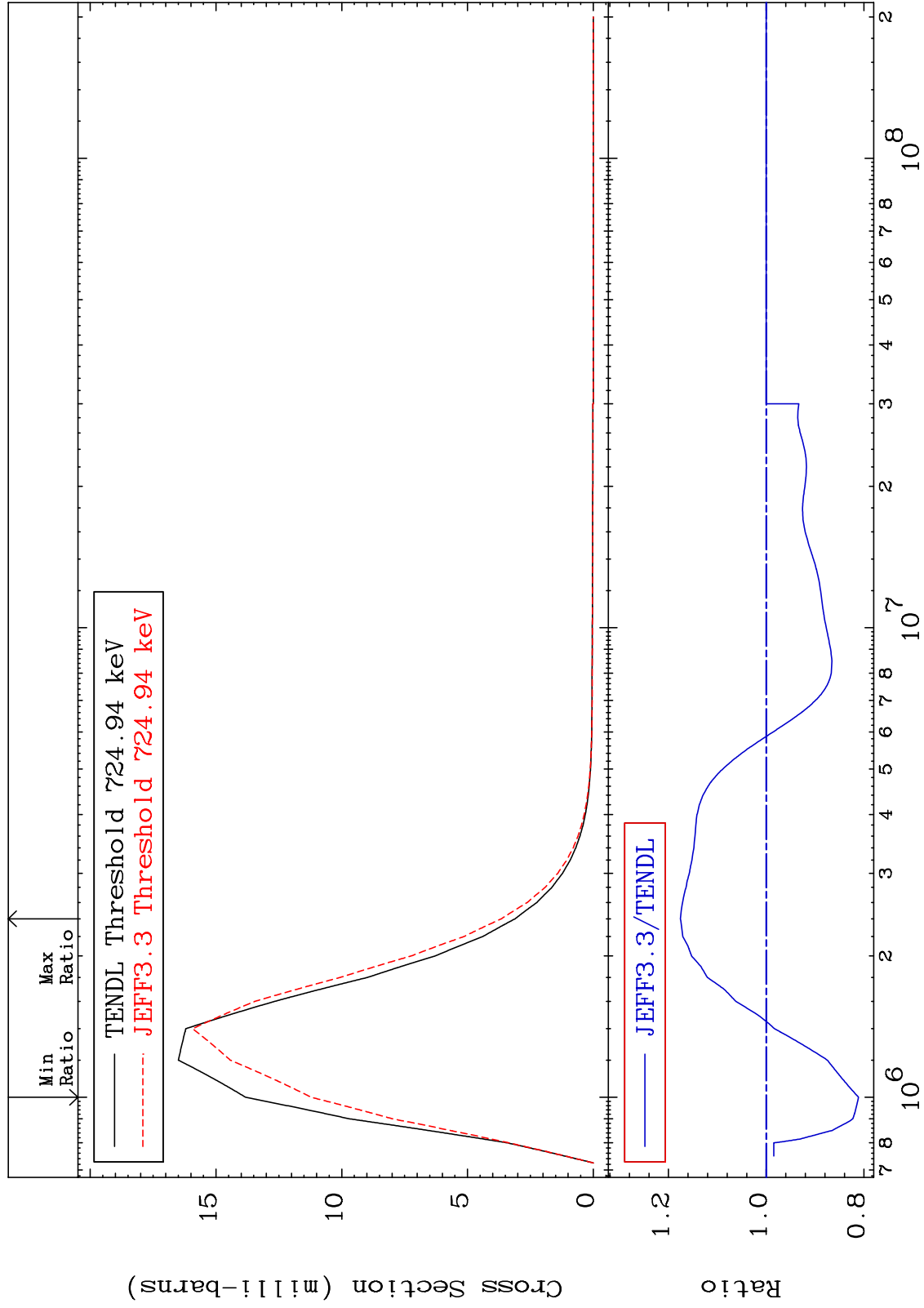
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-18.88 To 17.55 %



24

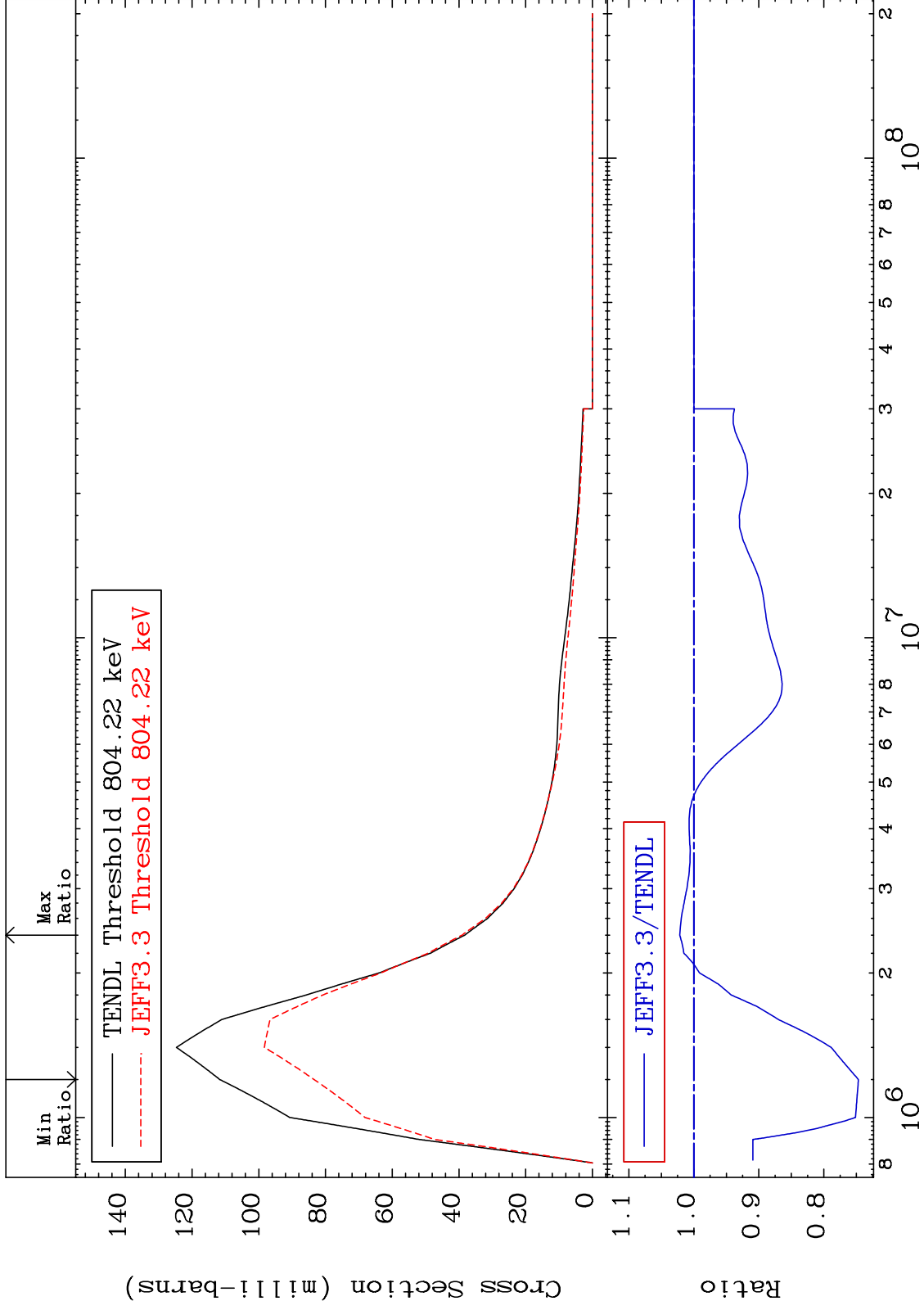
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-25.31 To 2.162 %



25

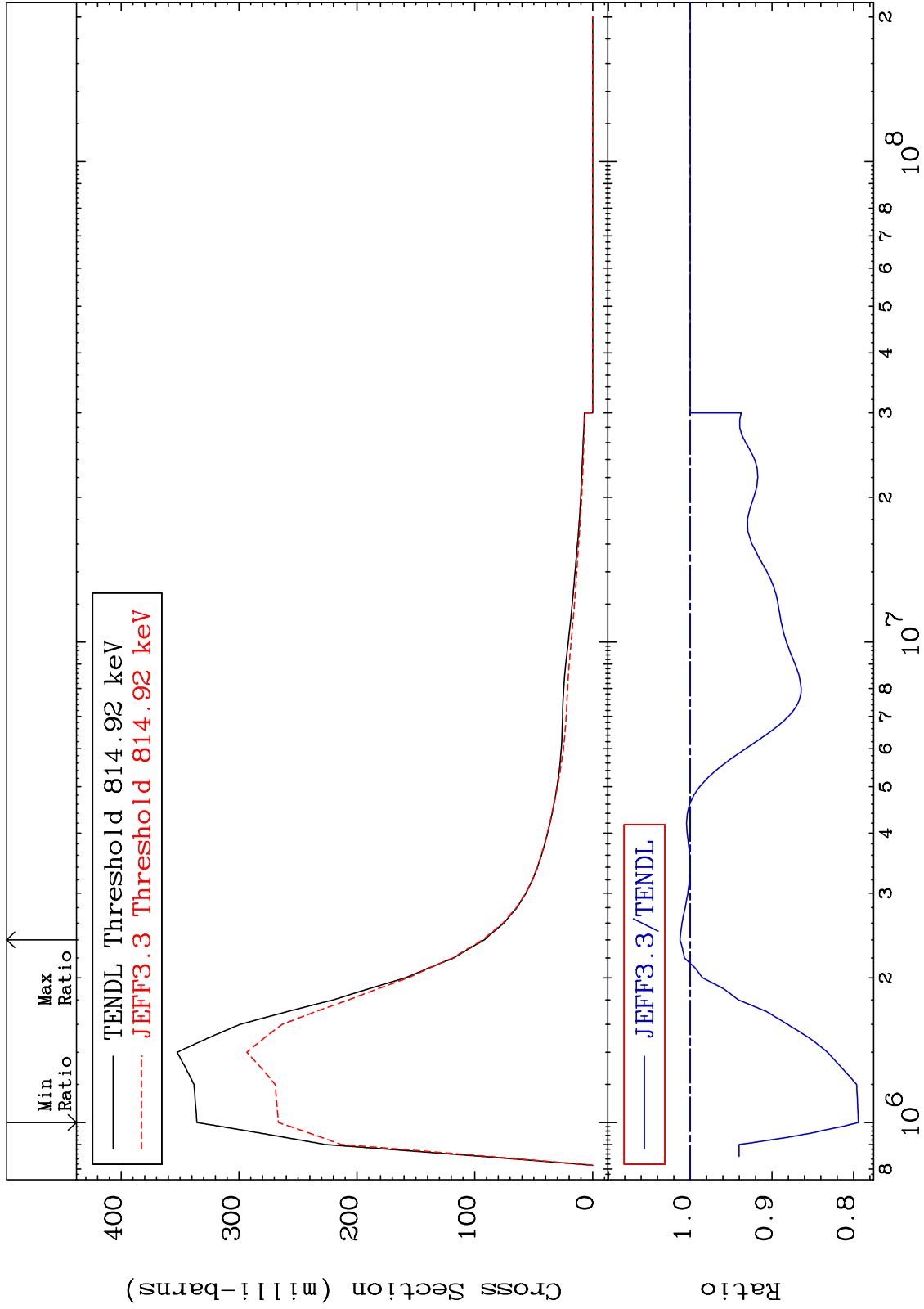
Incident Energy (eV)

62-Sm-147

MAT 6234

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

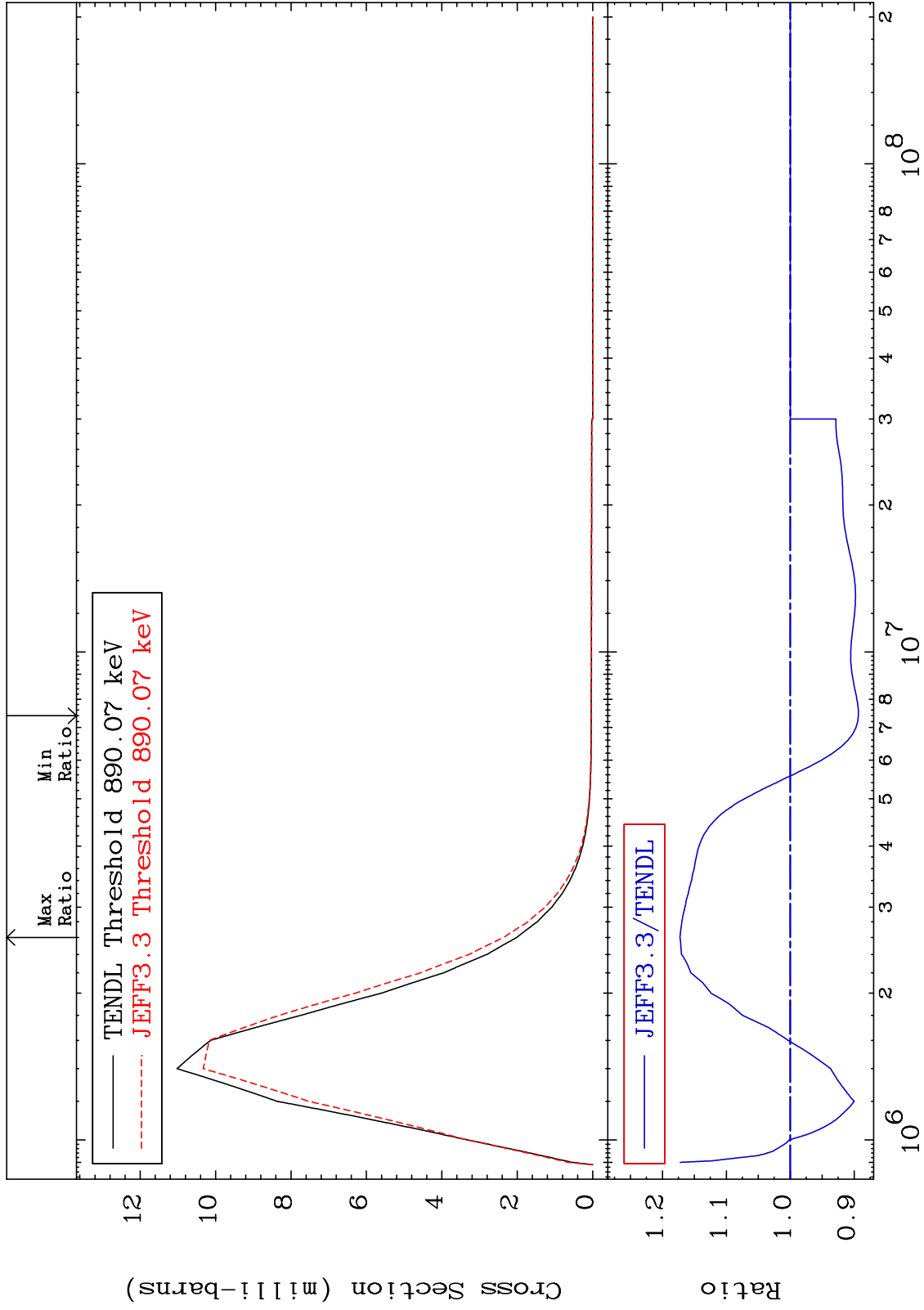
62-Sm-147
-20.59 To 1.247 %



MAT 6234

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

62-Sm-147
-10.67 To 17.25 %



27

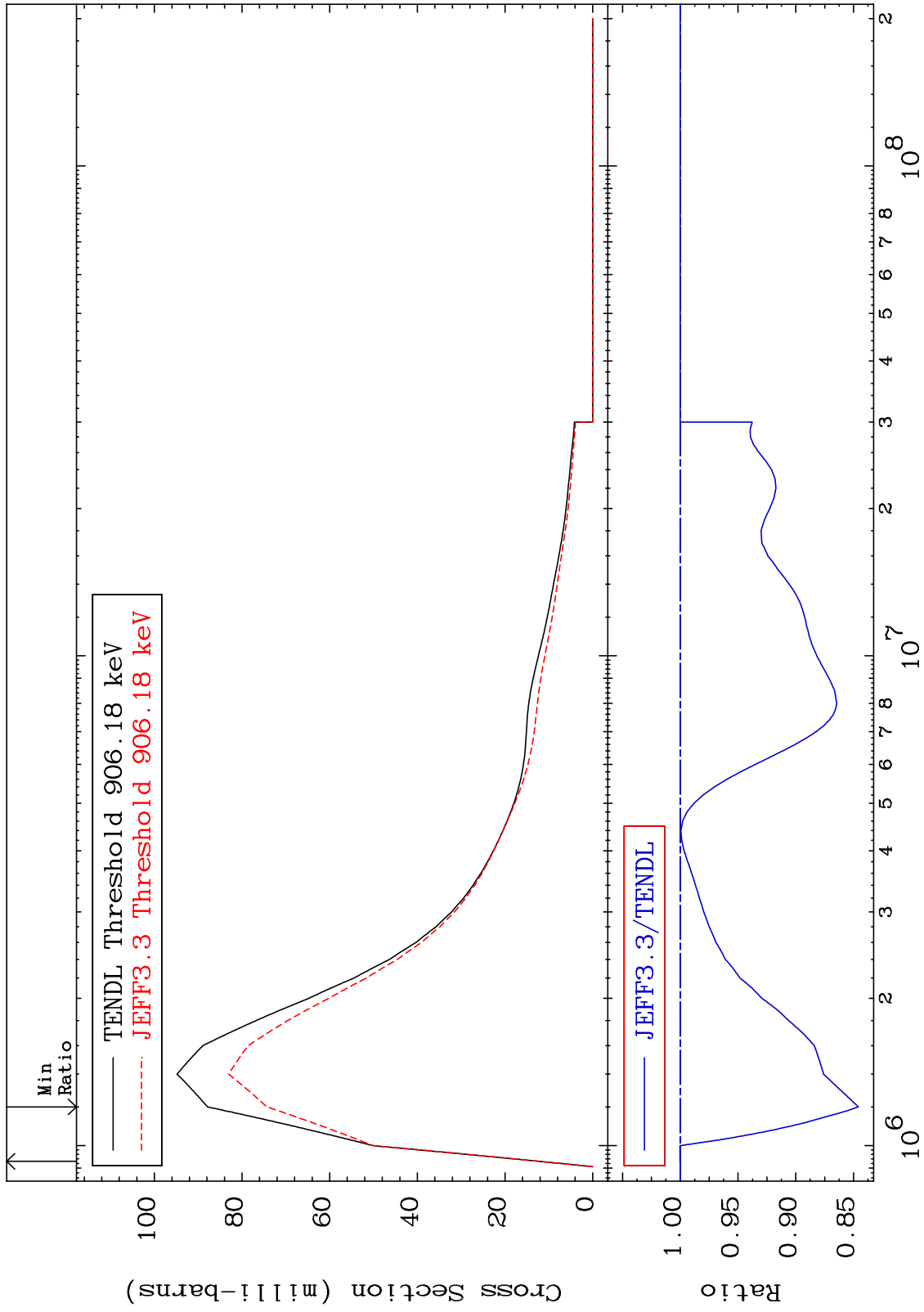
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-15.42 To 0.021 %



28

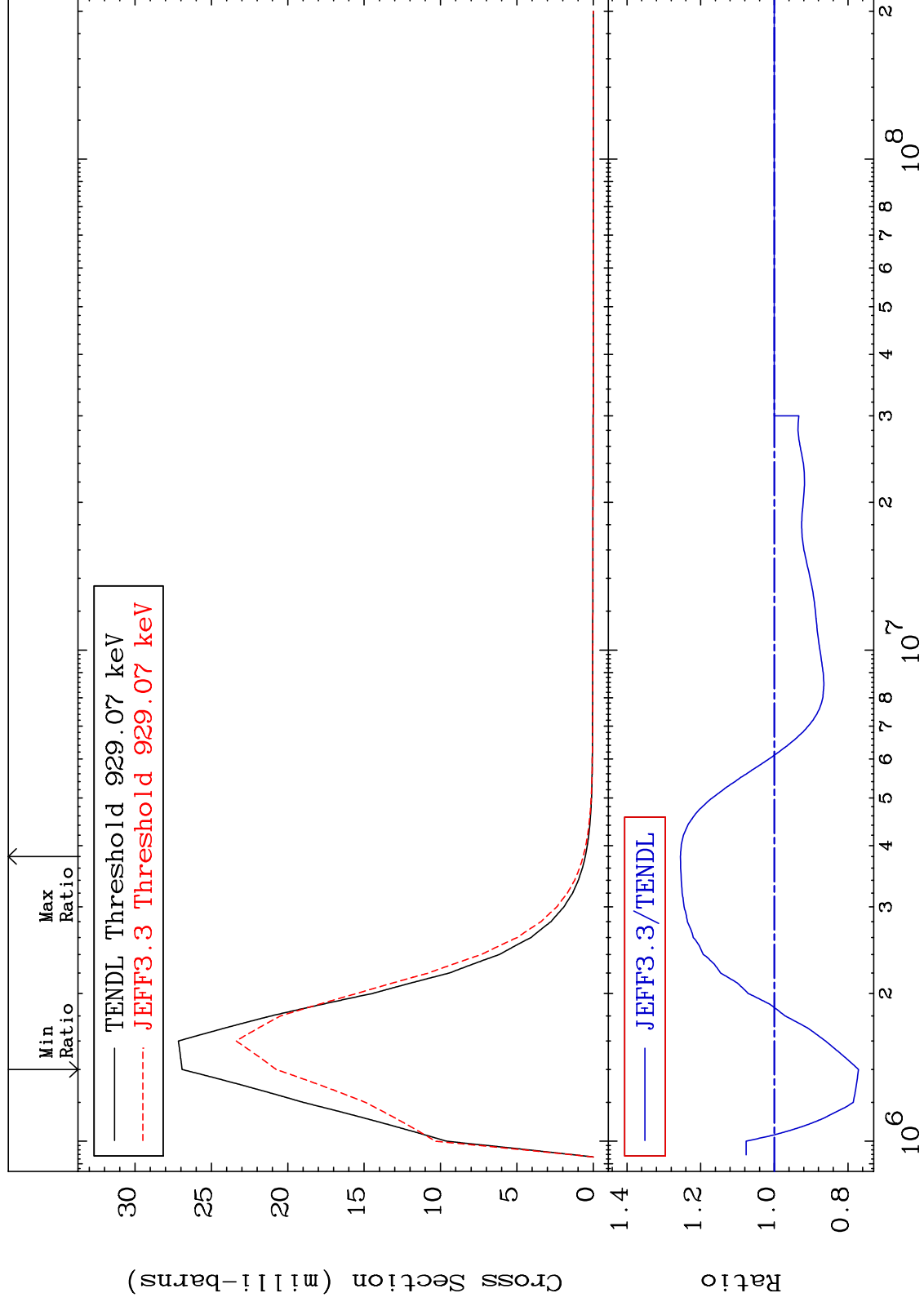
Incident Energy (eV)

62-Sm-147

MAT 6234

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

62-Sm-147
-22.87 To 25.48 %



29

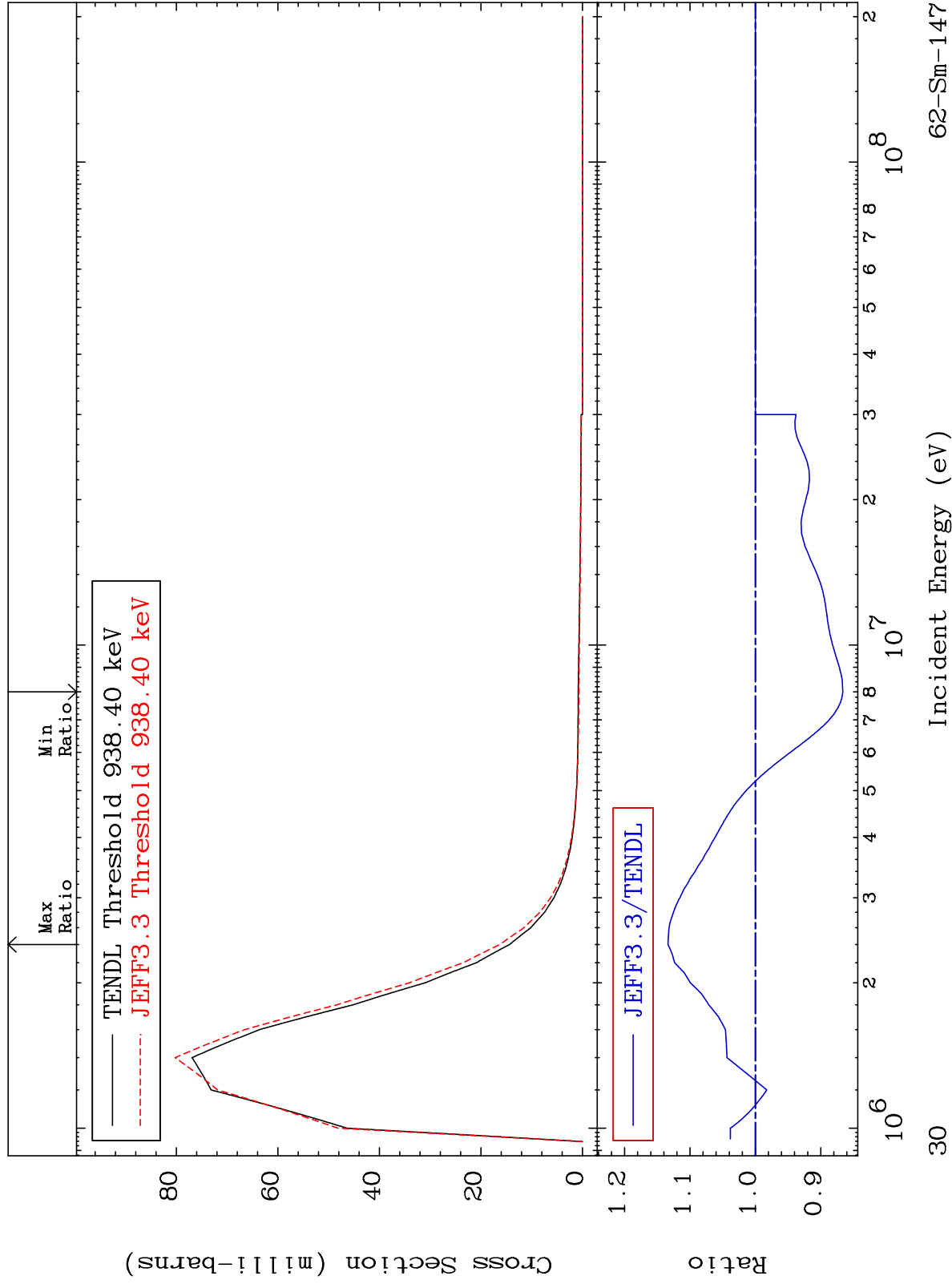
Incident Energy (eV)

62-Sm-147

MAT 6234

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

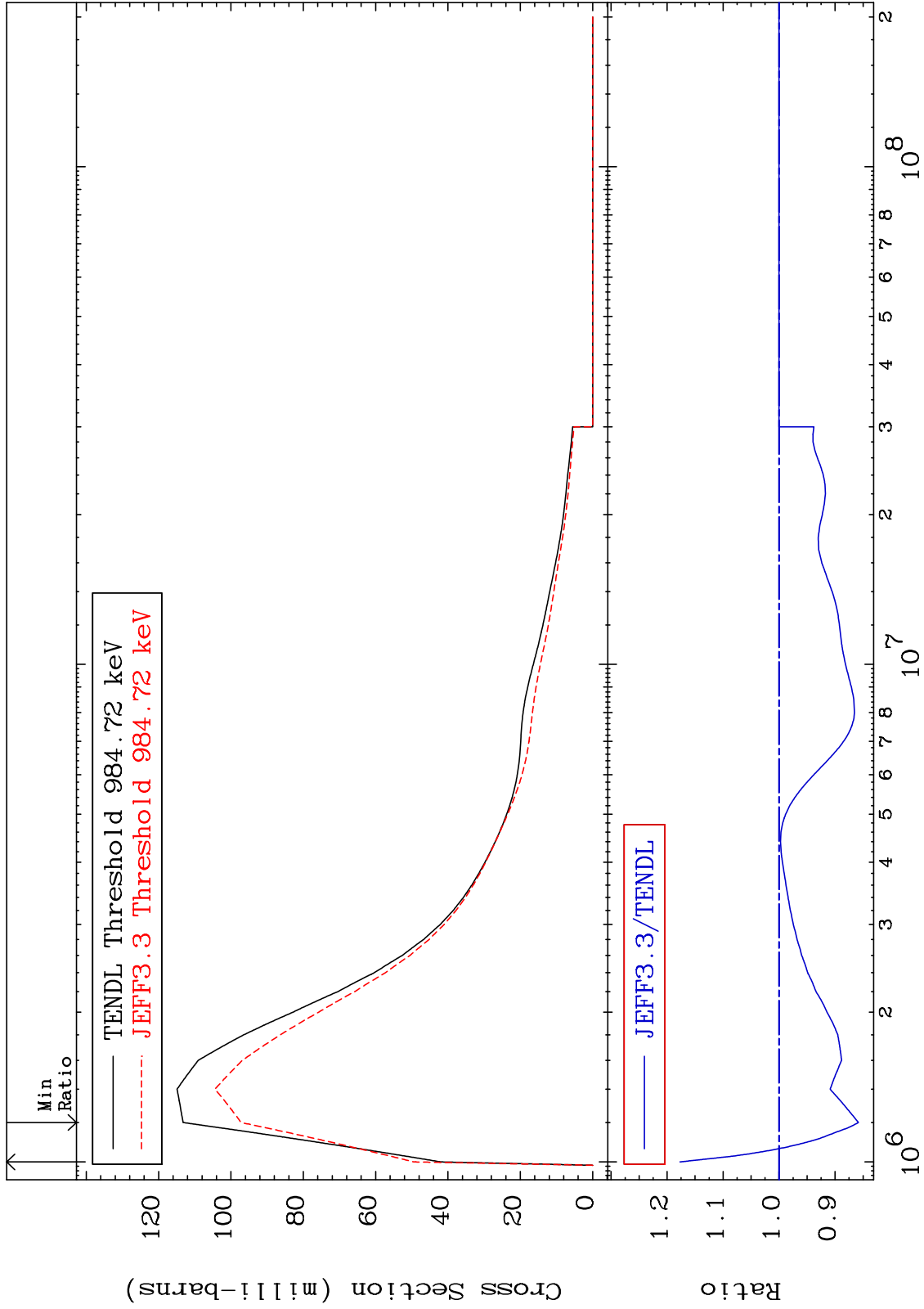
62-Sm-147
-13.38 To 13.36 %



MAT 6234

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

62-Sm-147
-14.17 To 17.69 %



31

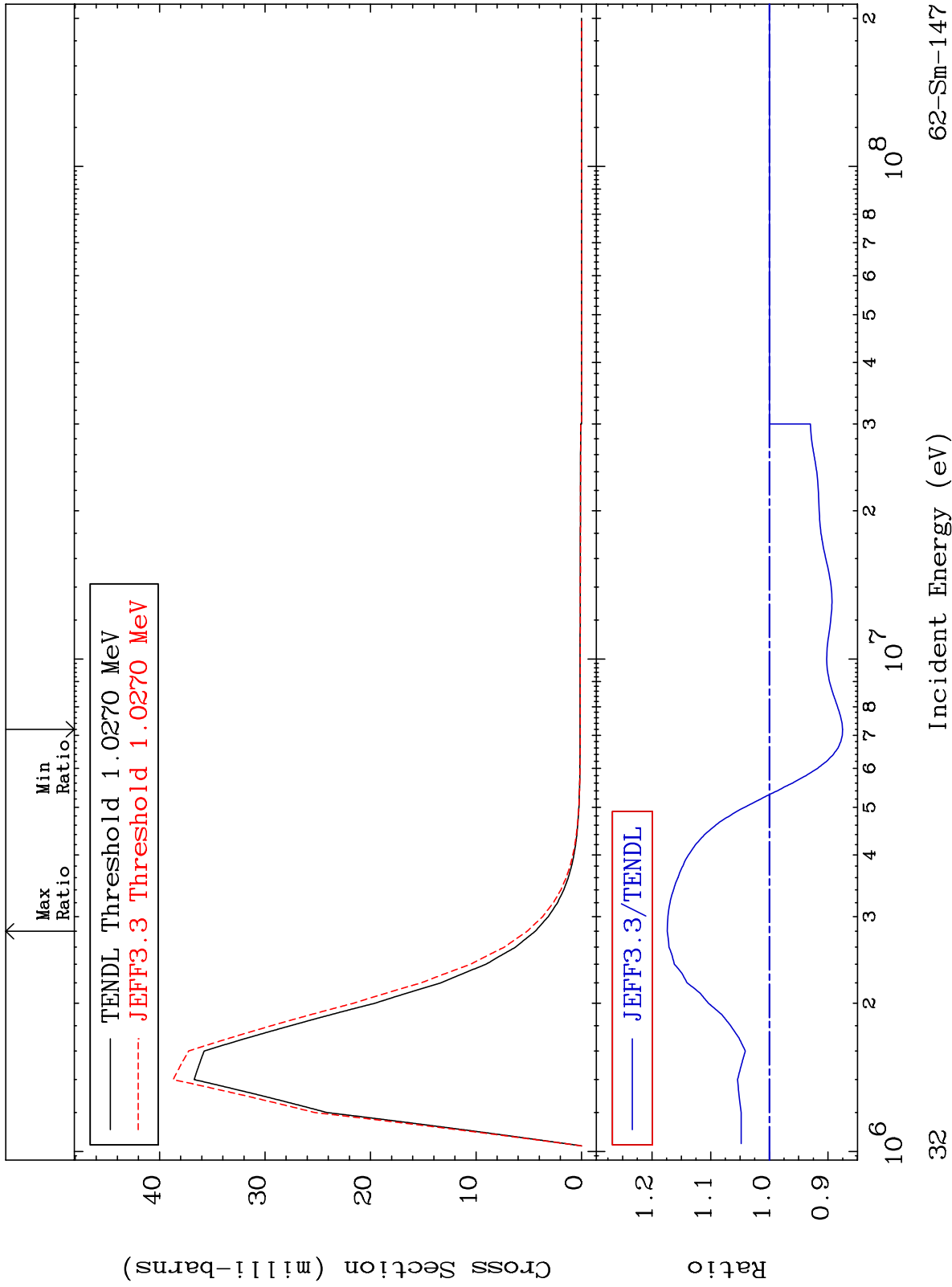
Incident Energy (eV)

62-Sm-147

MAT 6234

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

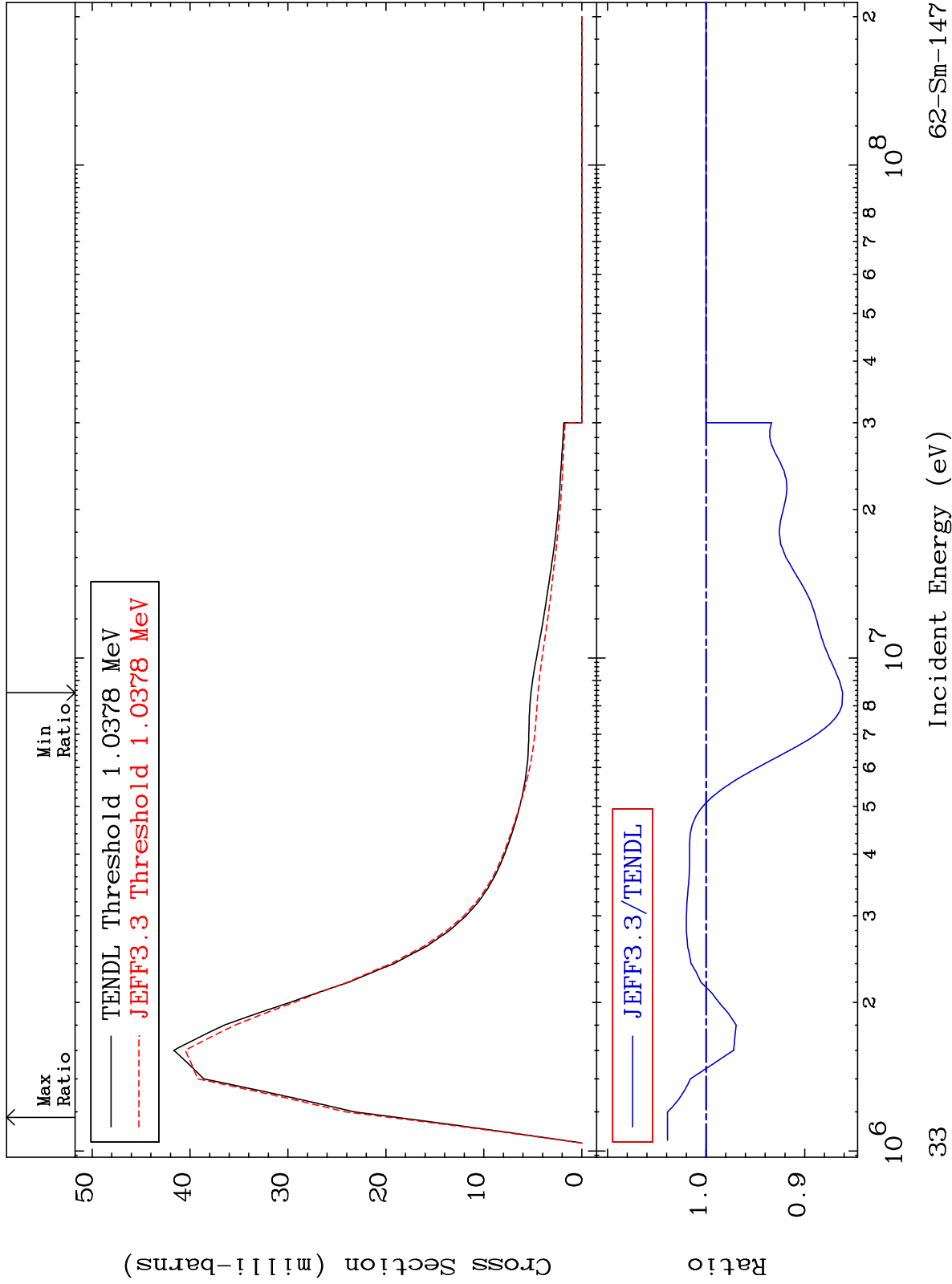
62-Sm-147
-12.48 To 17.39 %



MAT 6234

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

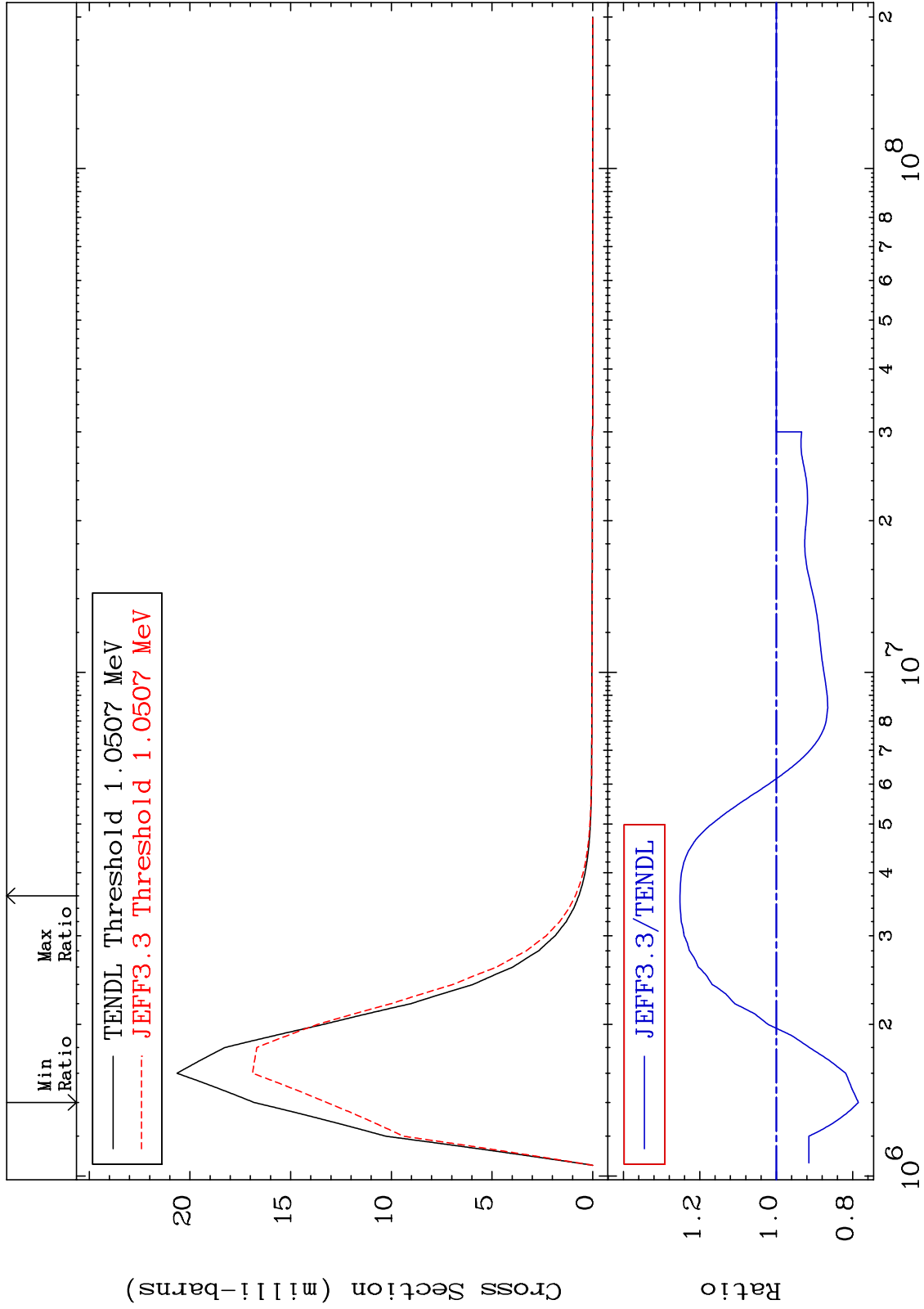
62-Sm-147
-13.85 To 3.904 %



MAT 6234

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

62-Sm-147
-21.48 To 25.19 %



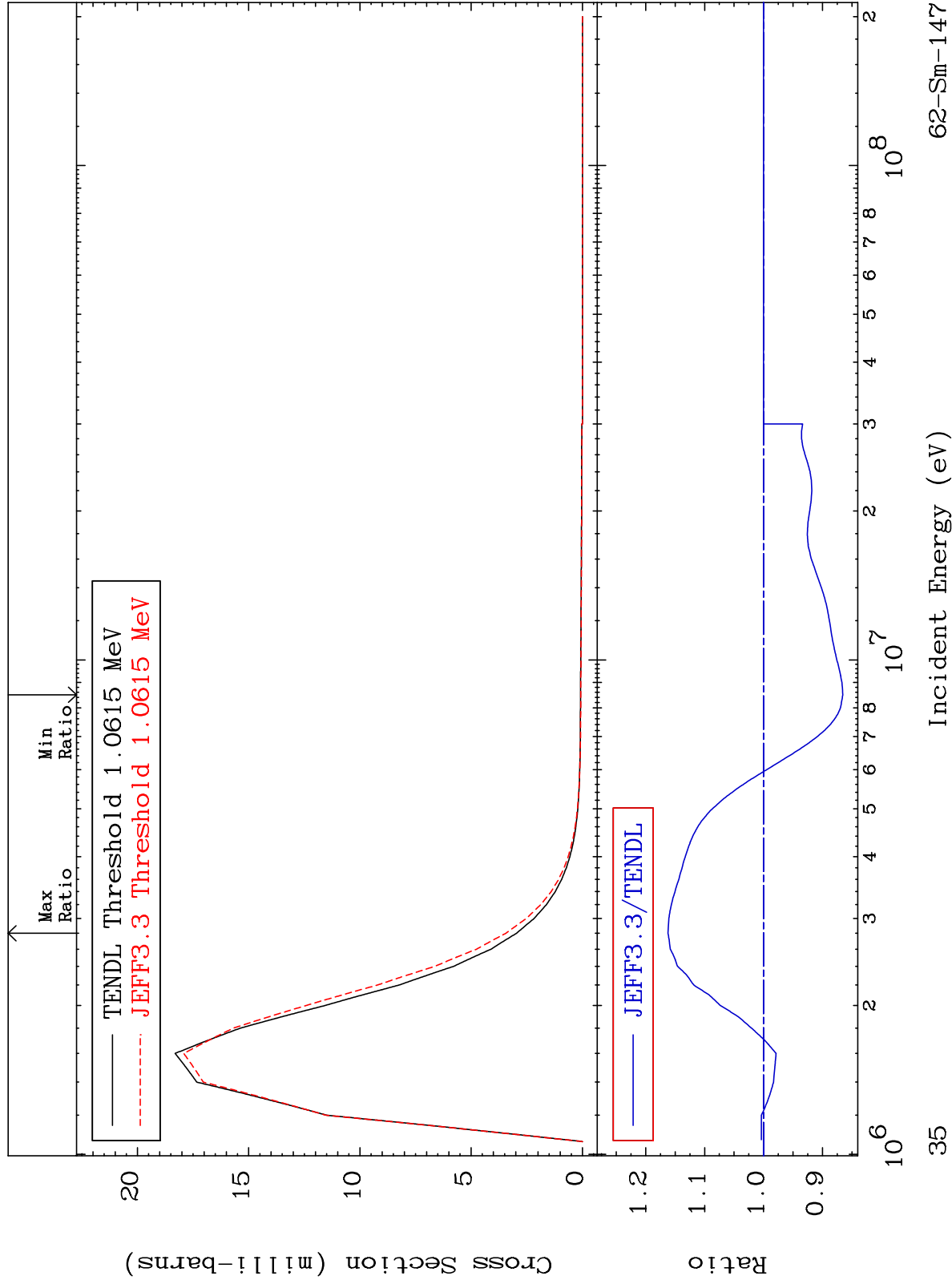
34

62-Sm-147

MAT 6234

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

62-Sm-147
-13.46 To 16.21 %

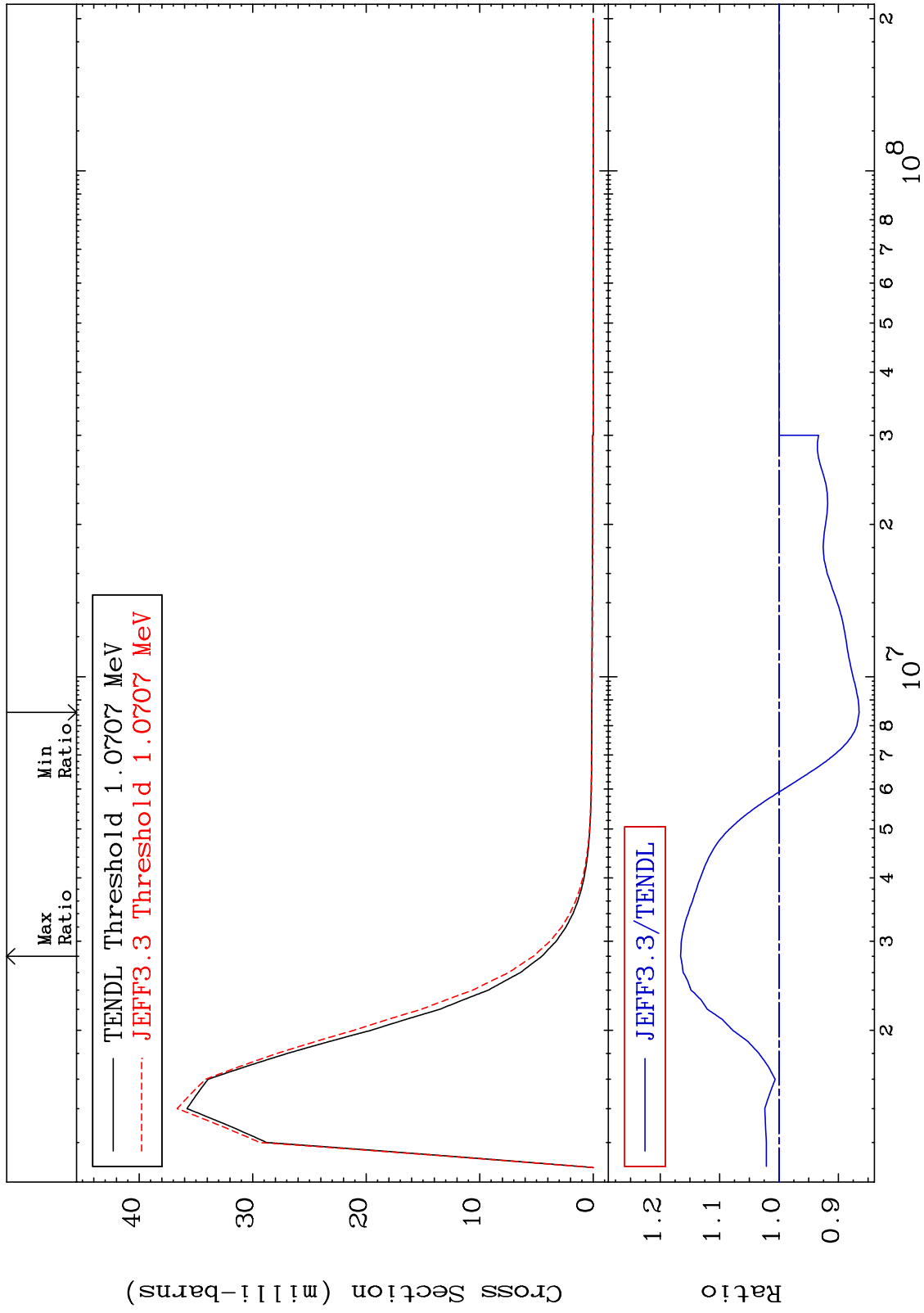


35

MAT 6234

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

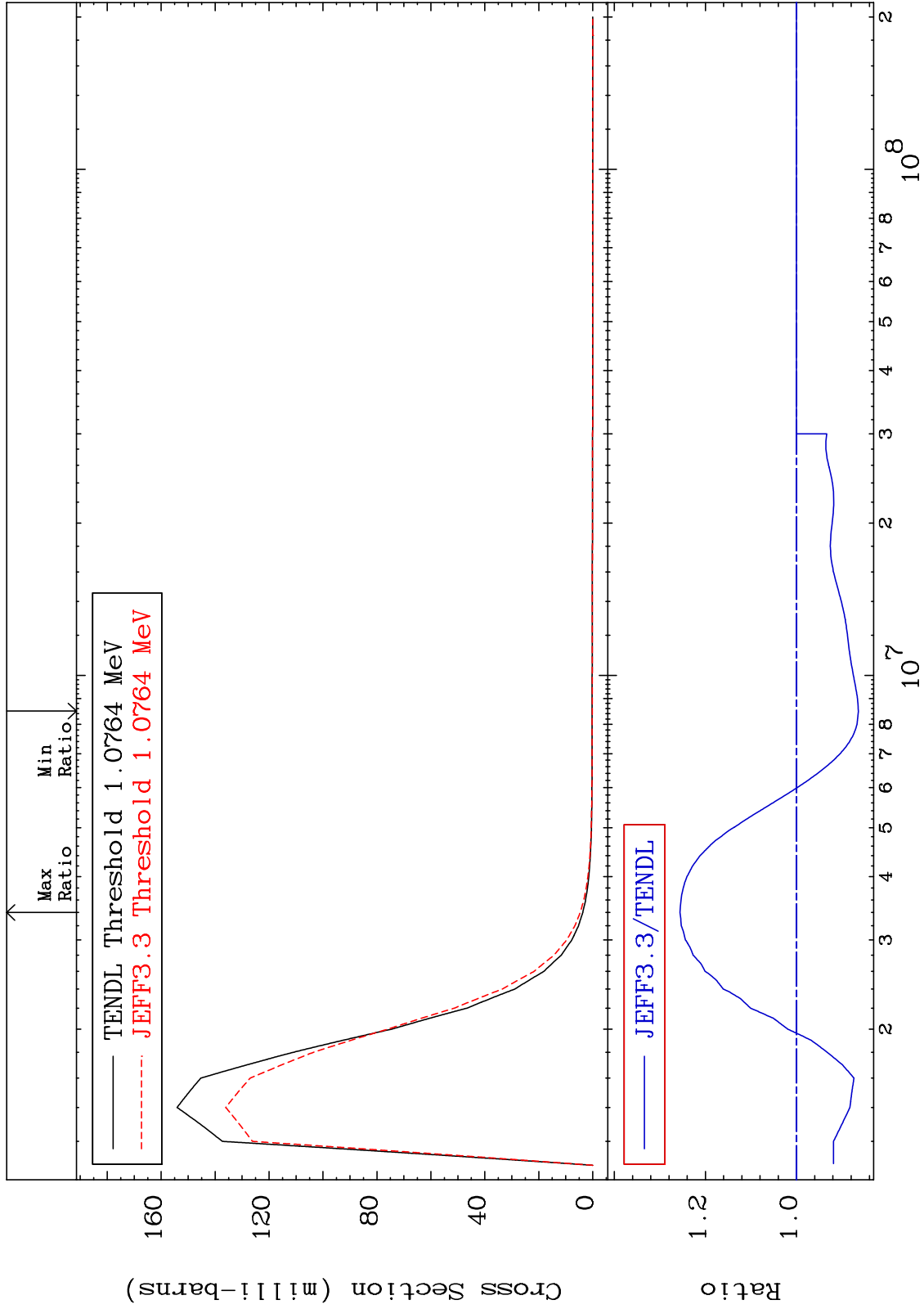
62-Sm-147
-13.49 To 16.56 %



MAT 6234

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

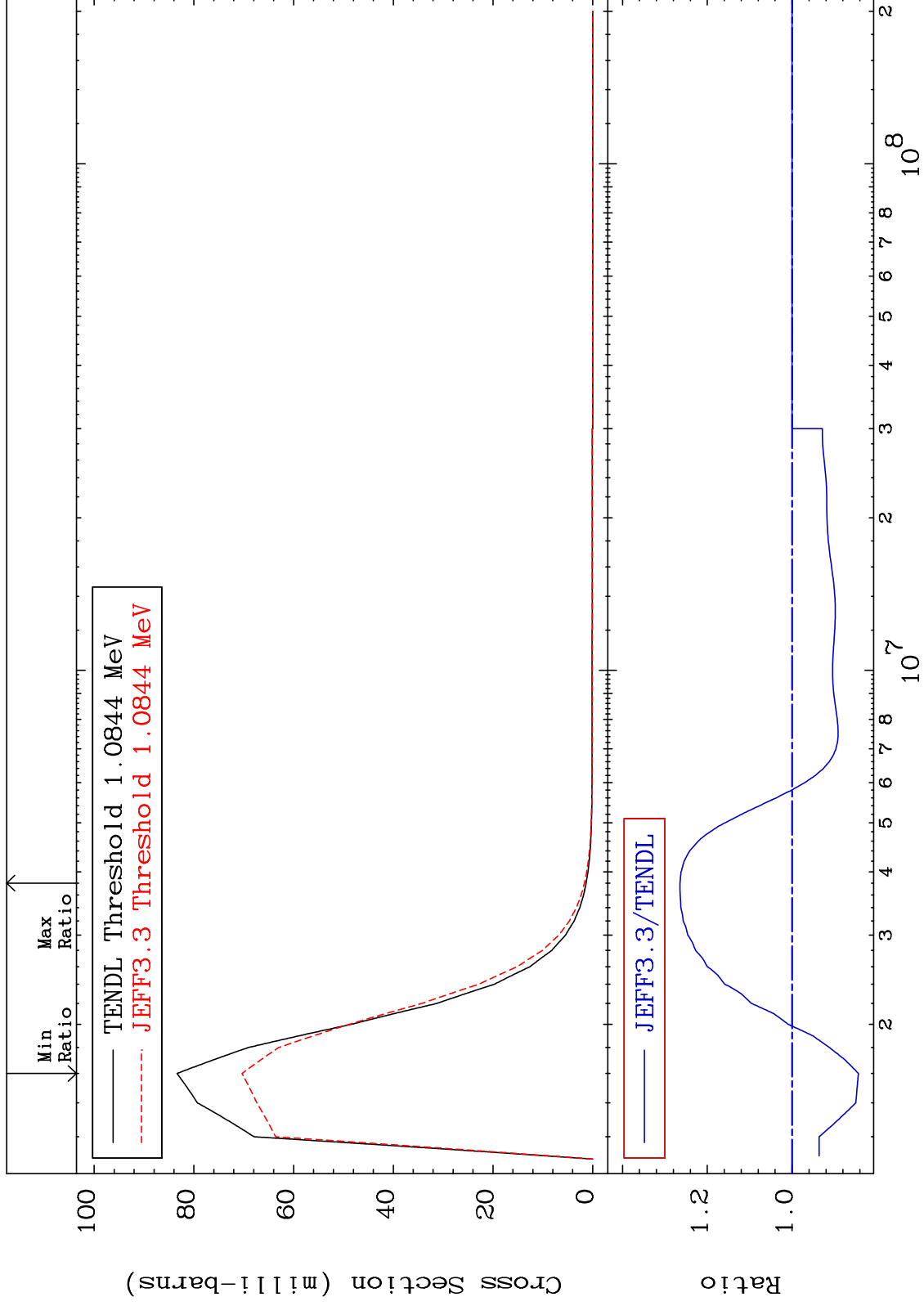
62-Sm-147
-13.59 To 25.57 %



MAT 6234

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

62-Sm-147
-15.65 To 26.43 %



38

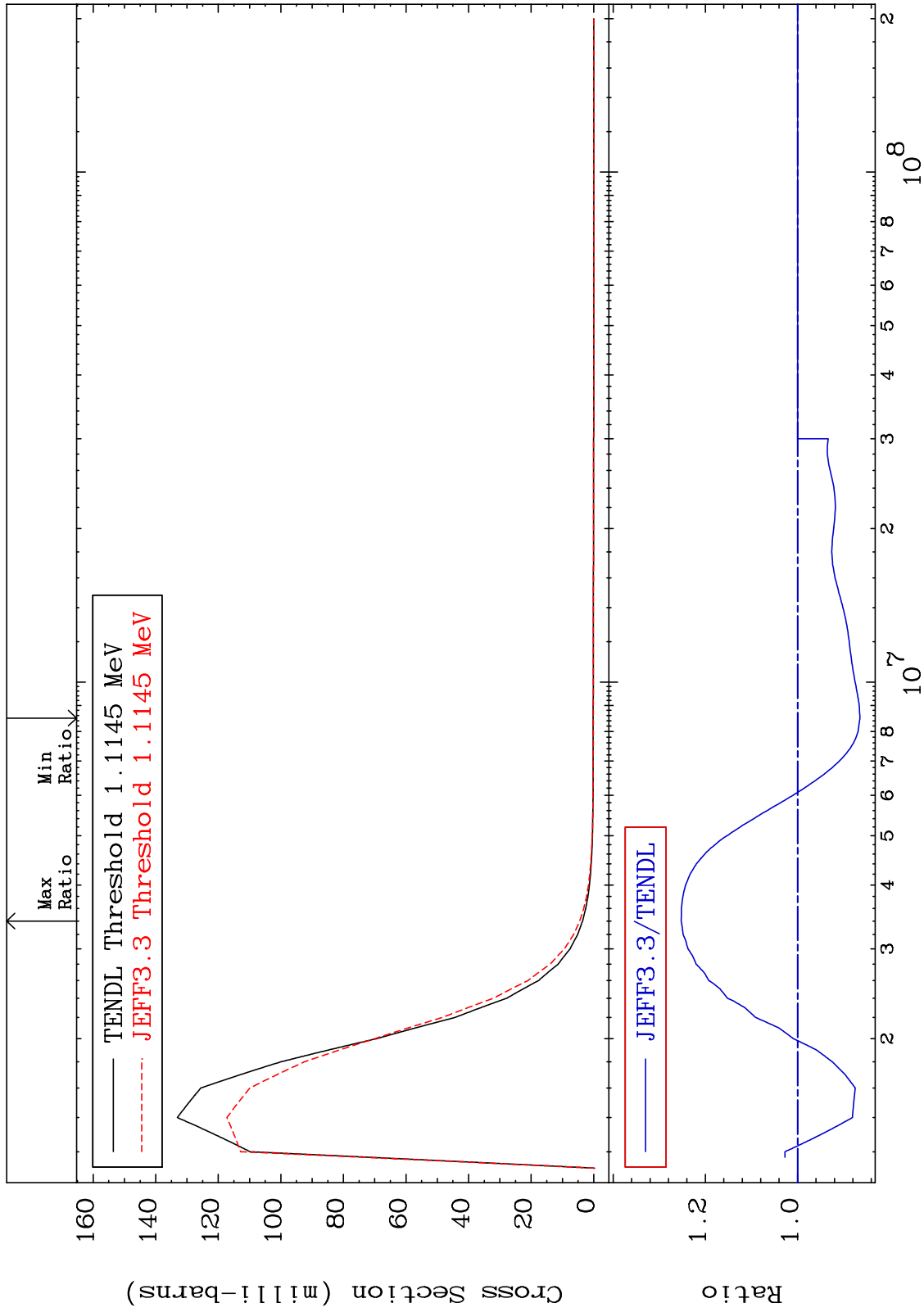
Incident Energy (eV)

62-Sm-147

MAT 6234

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

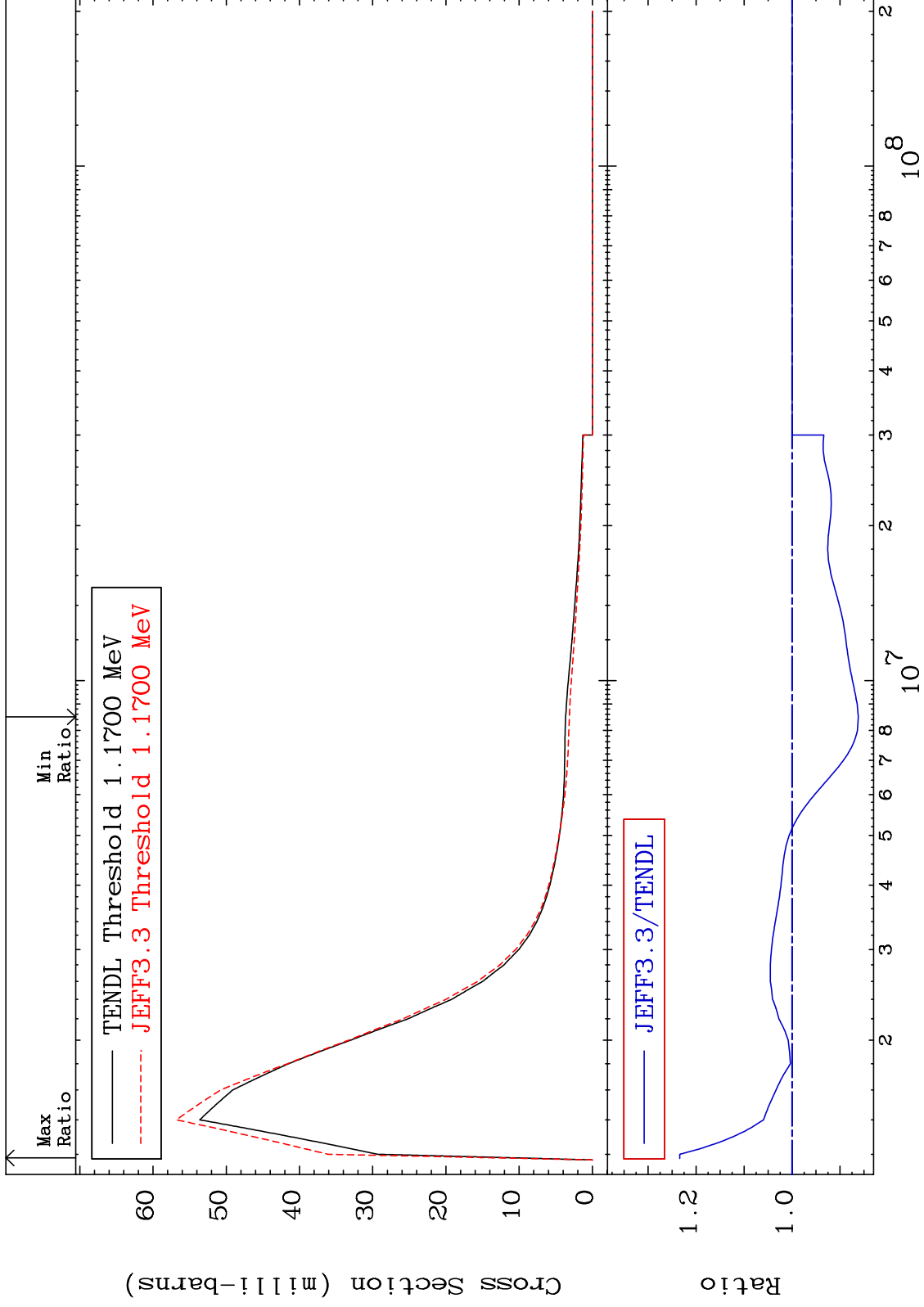
62-Sm-147
-13.53 To 25.23 %



MAT 6234

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

62-Sm-147
-13.81 To 23.39 %



40

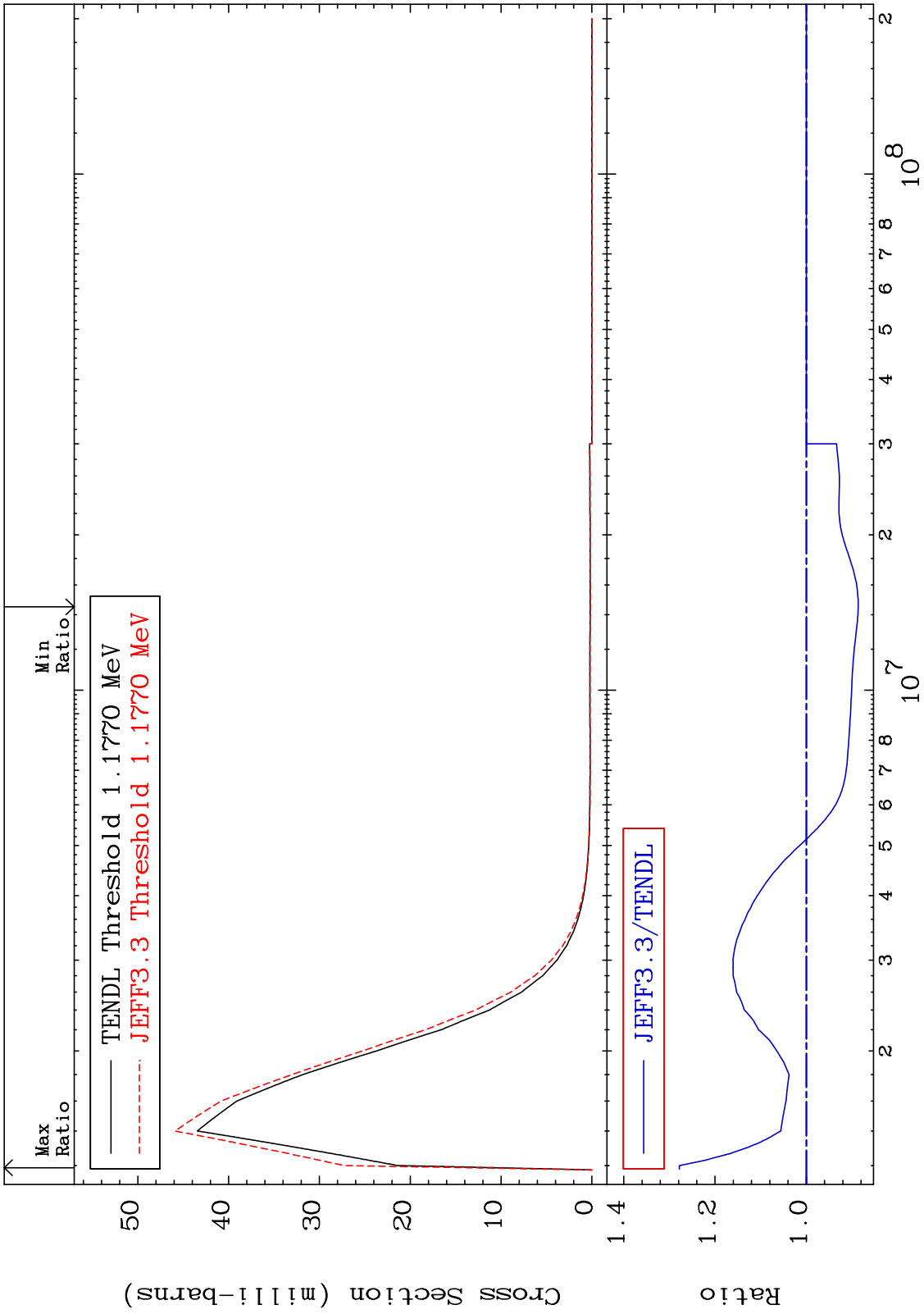
62-Sm-147

62-Sm-147

MAT 6234

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

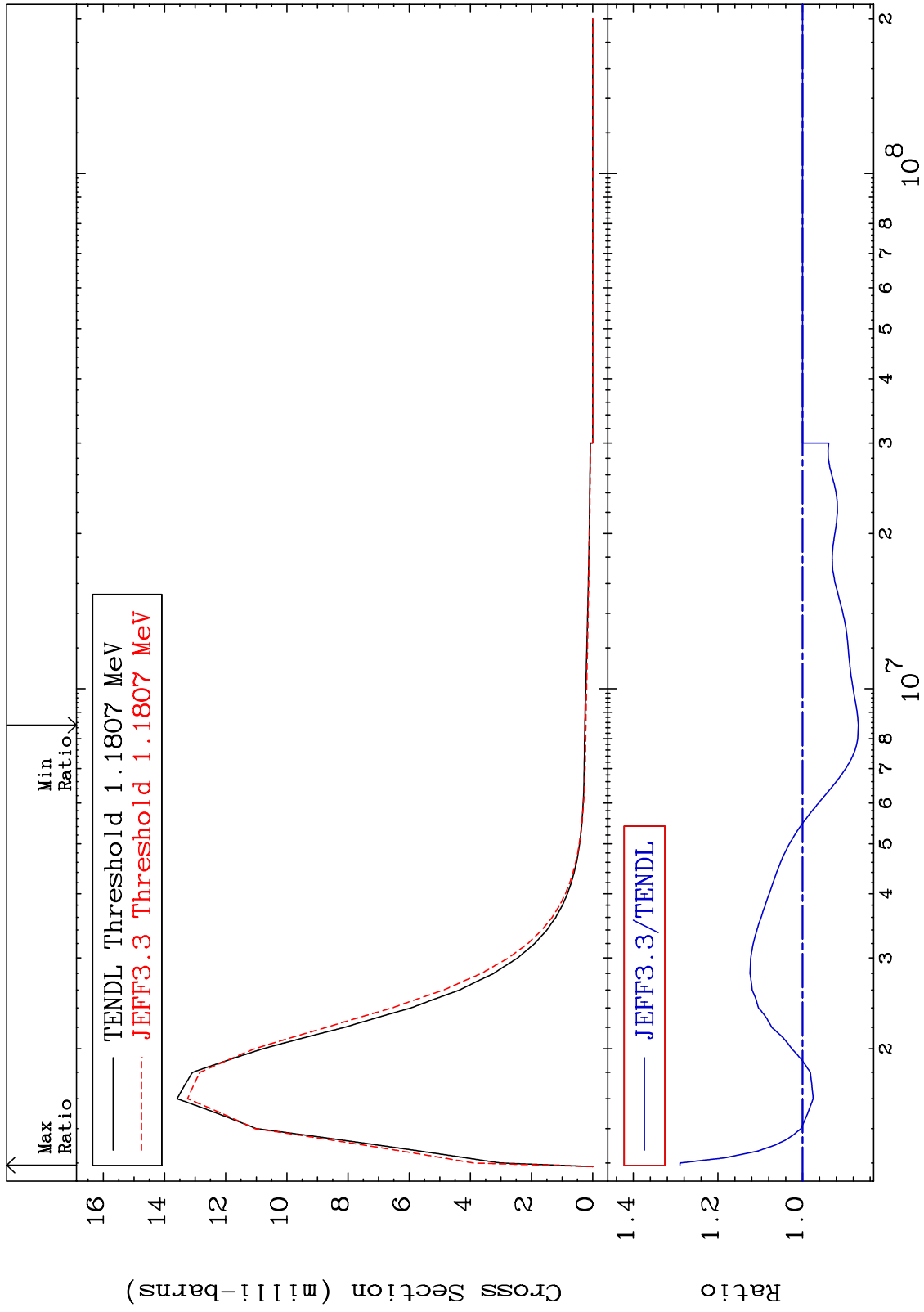
62-Sm-147
-11.38 To 27.82 %



MAT 6234

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

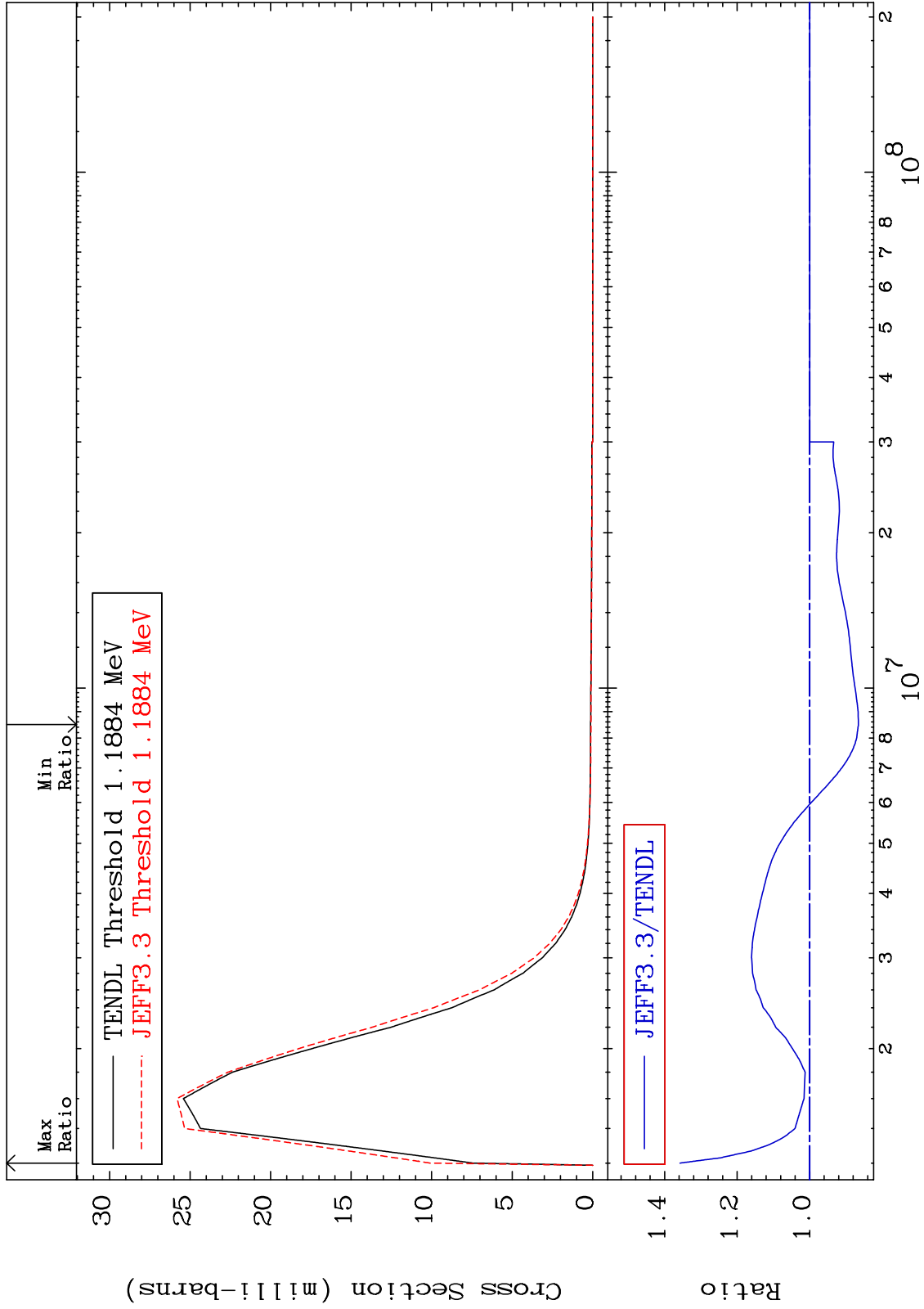
62-Sm-147
-13.21 To 28.97 %



MAT 6234

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

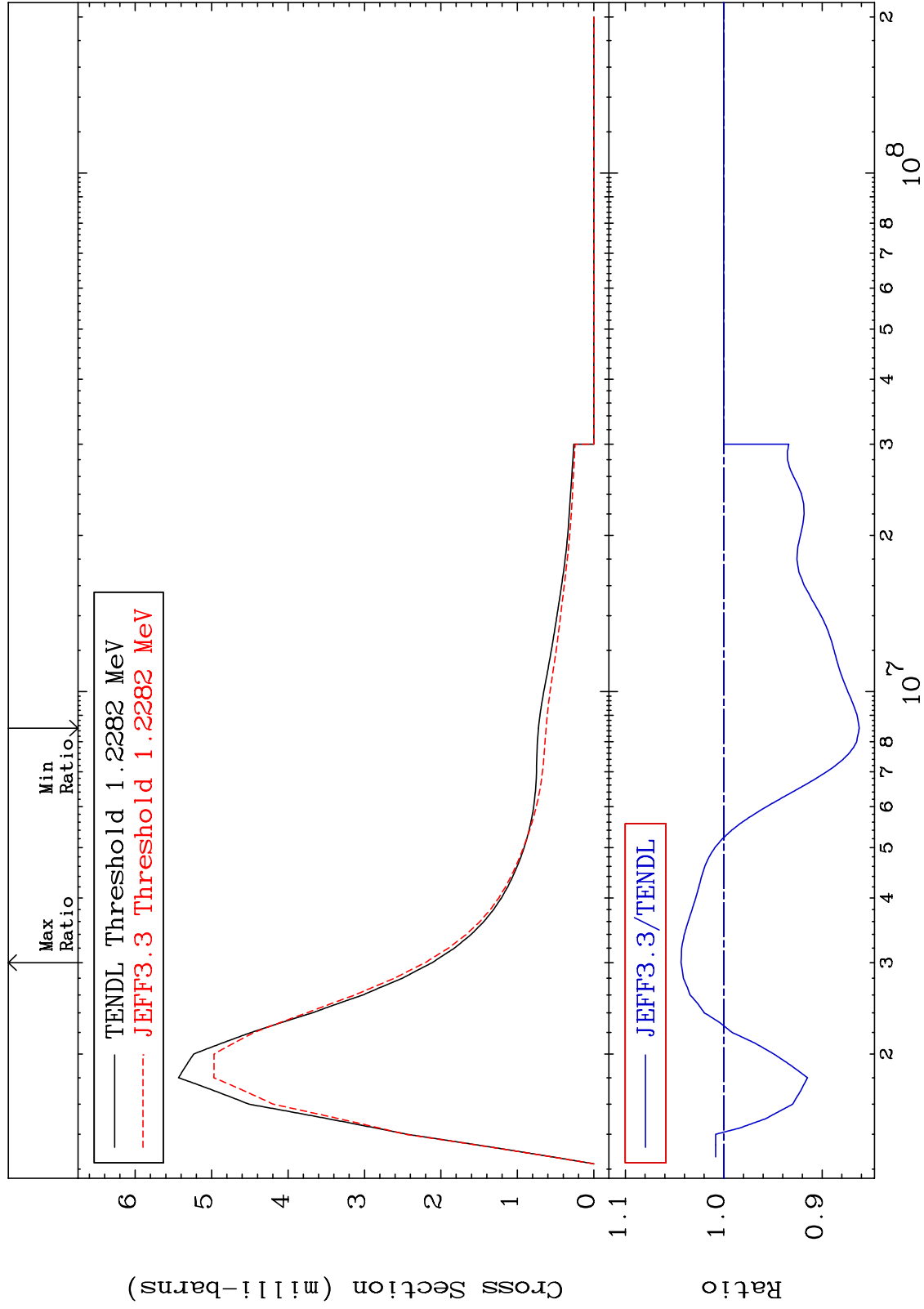
62-Sm-147
-13.45 To 35.74 %



MAT 6234

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

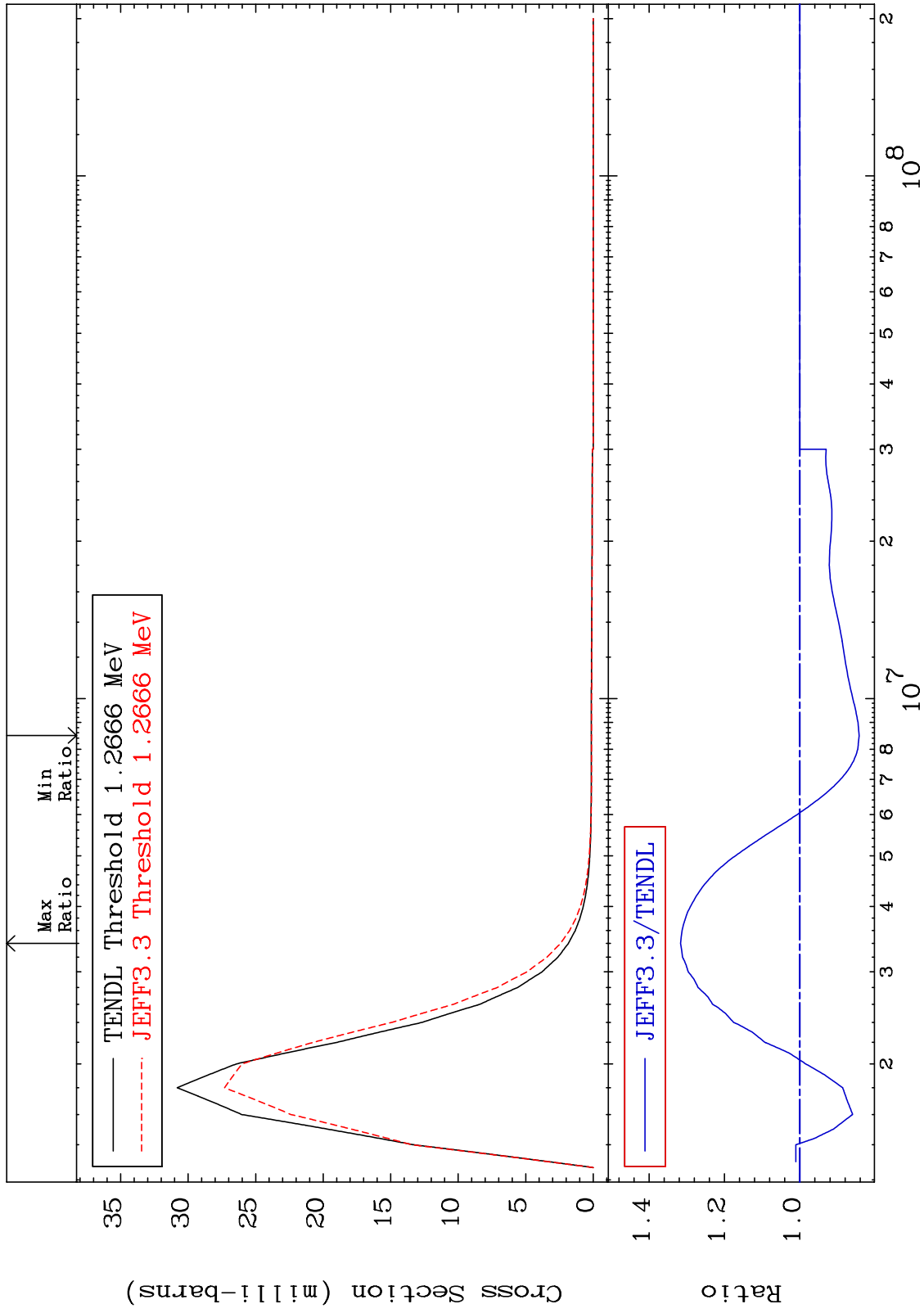
62-Sm-147
-13.78 To 4.344 %



MAT 6234

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

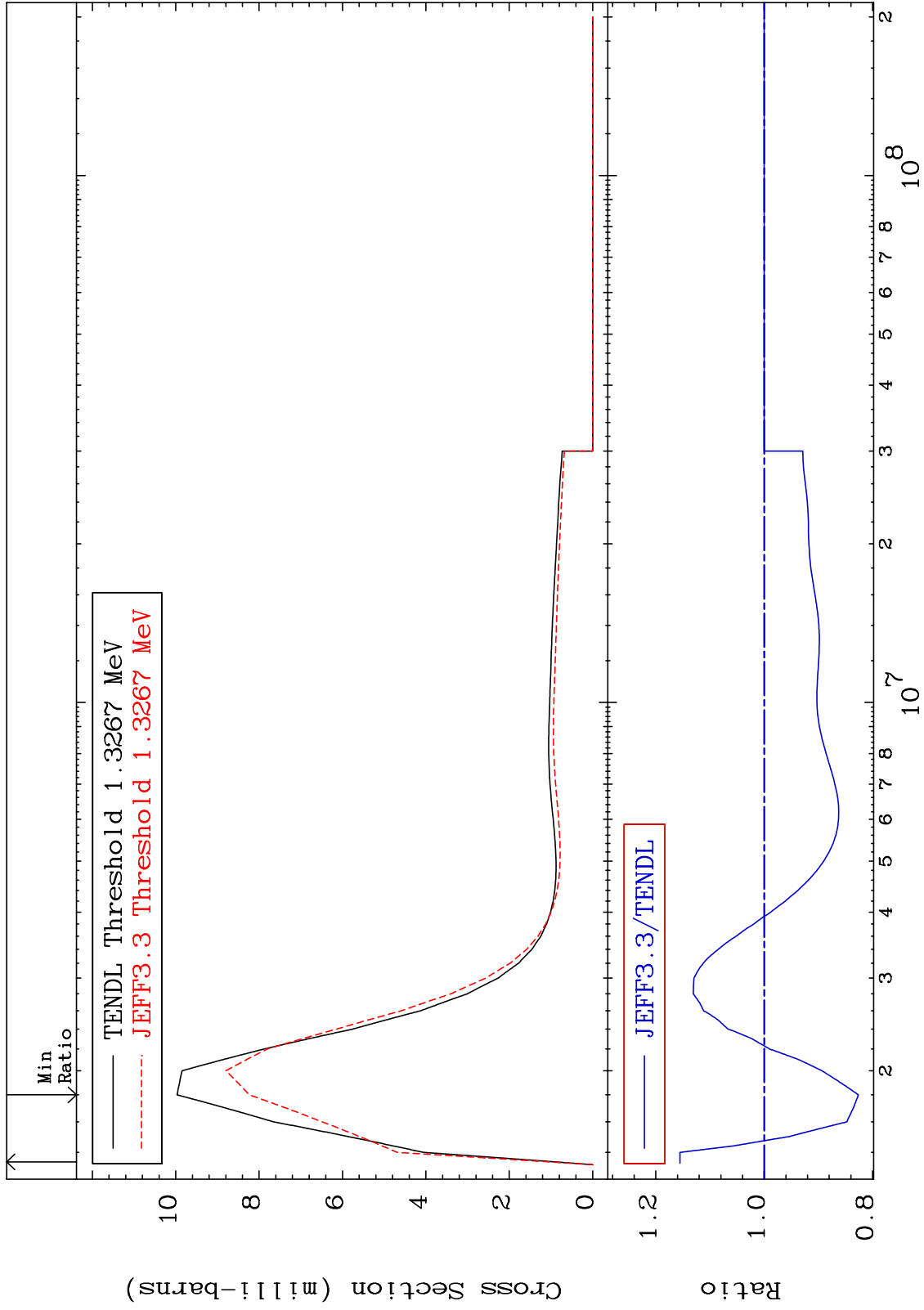
62-Sm-147
-15.75 To 31.65 %



MAT 6234

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

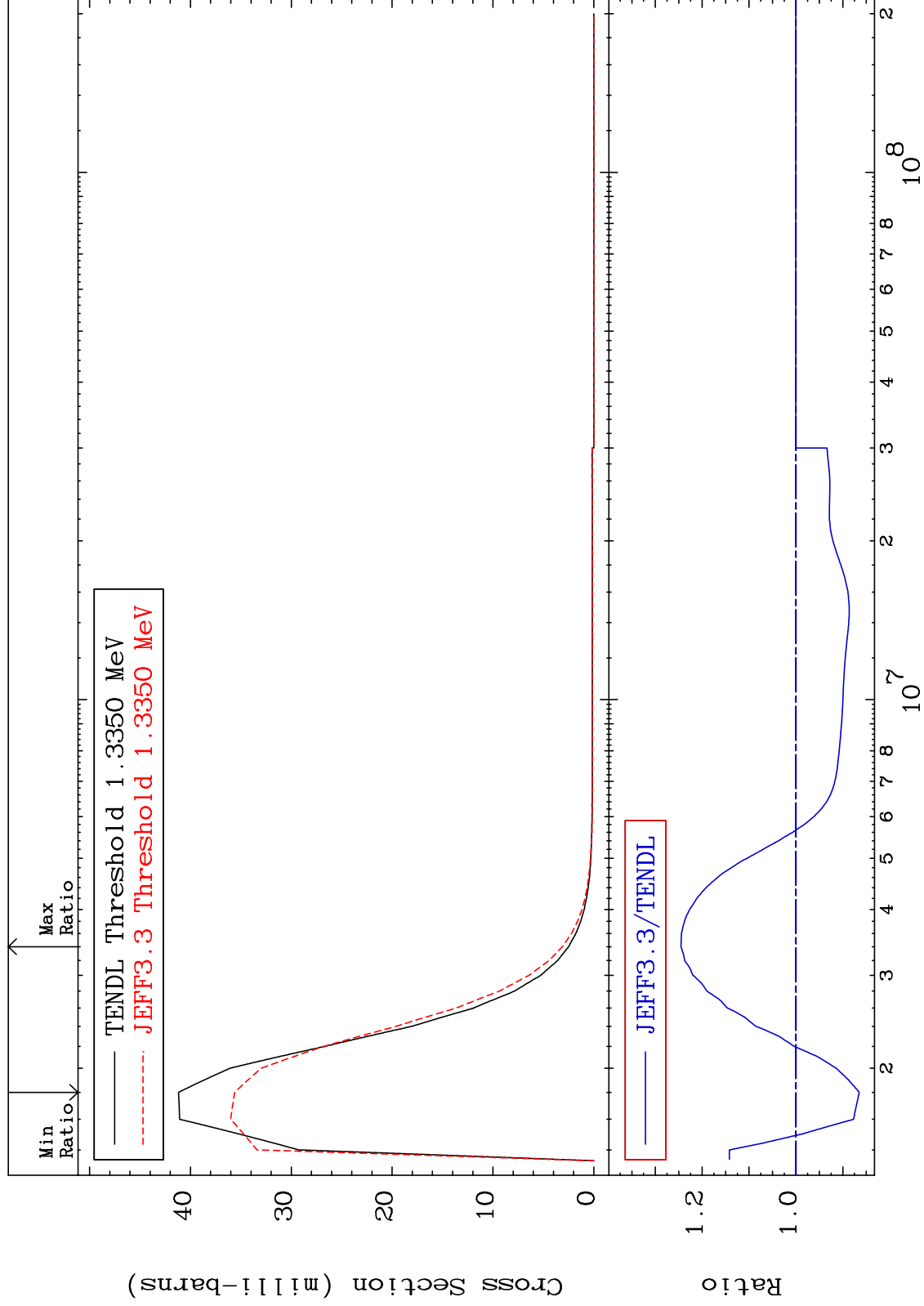
62-Sm-147
-17.39 To 15.54 %



MAT 6234

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

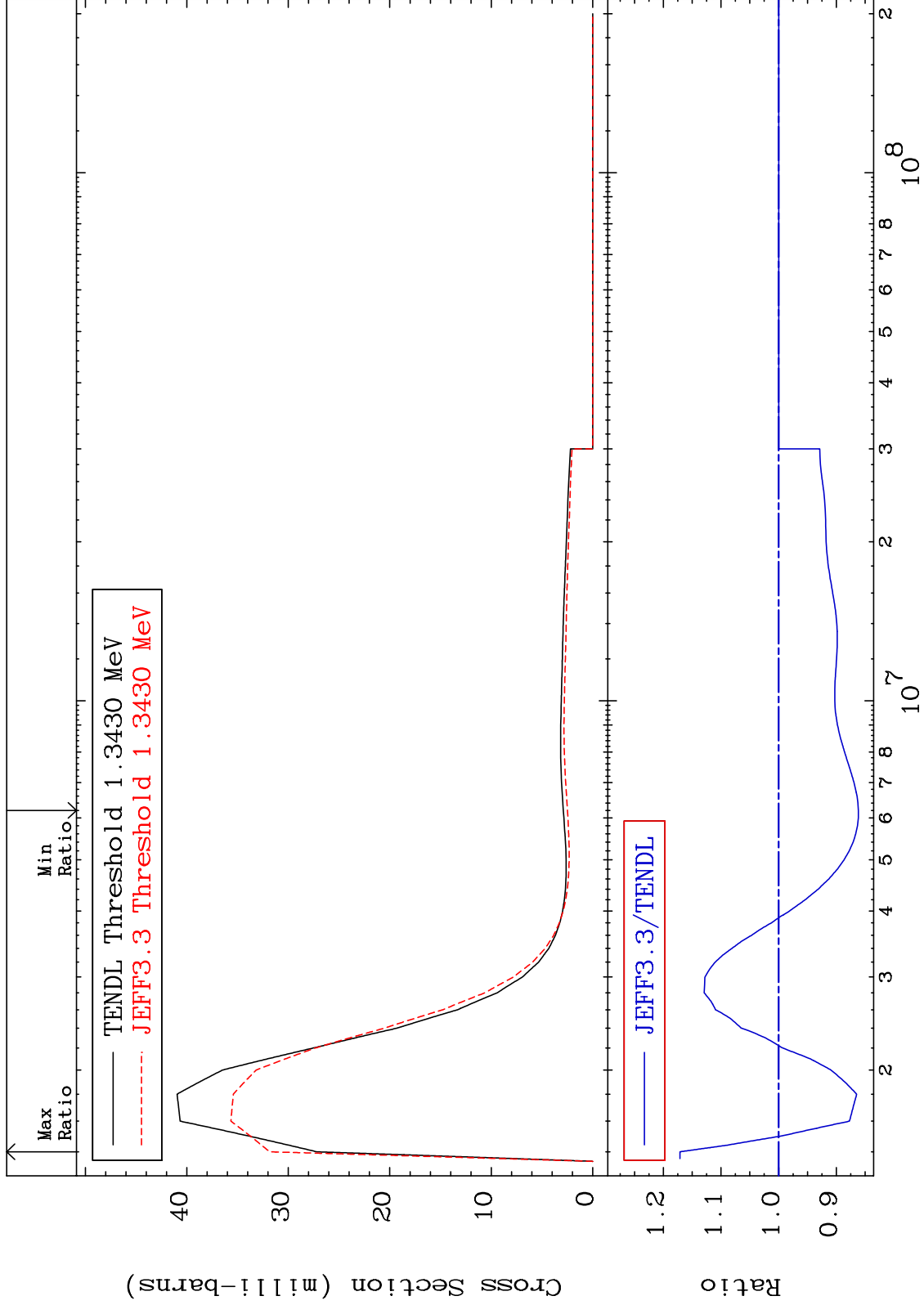
62-Sm-147
-13.52 To 24.51 %



MAT 6234

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

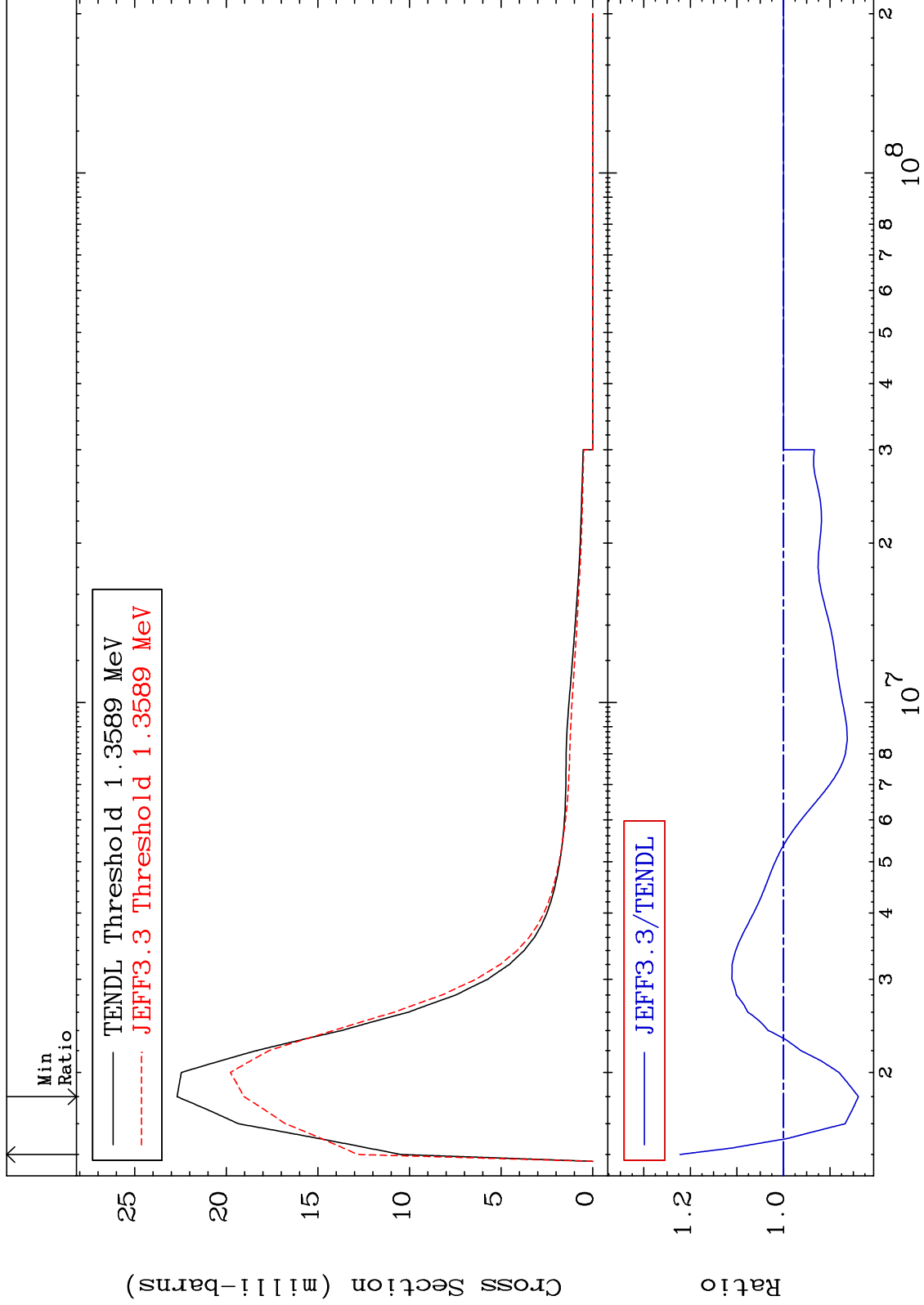
62-Sm-147
-13.84 To 17.11 %



MAT 6234

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

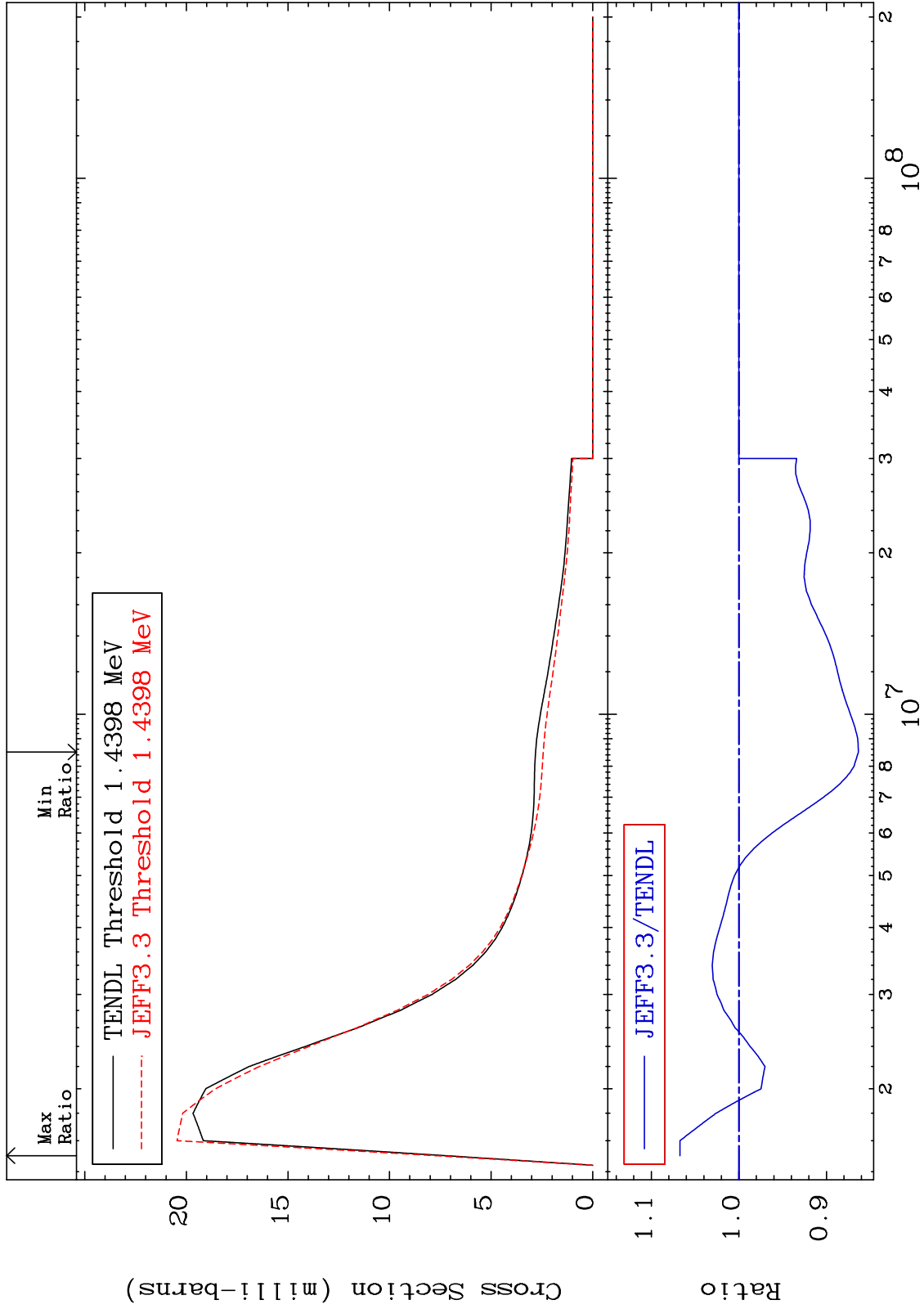
62-Sm-147
-16.09 To 22.22 %



MAT 6234

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

62-Sm-147
-13.65 To 6.723 %



50

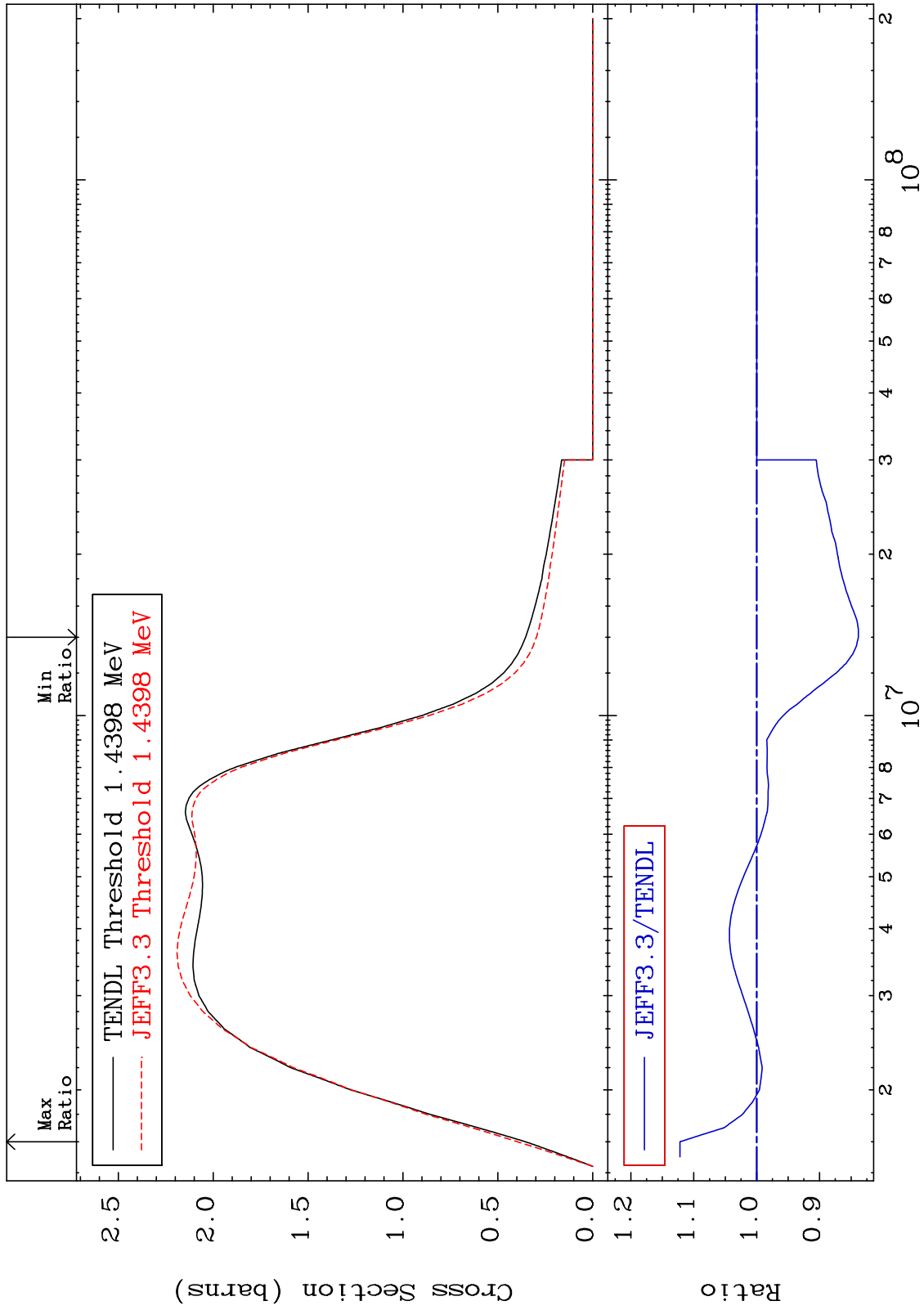
Incident Energy (eV)

62-Sm-147

MAT 6234

(n, n') Continuum
Cross Section

62-Sm-147
-16.17 To 12.19 %

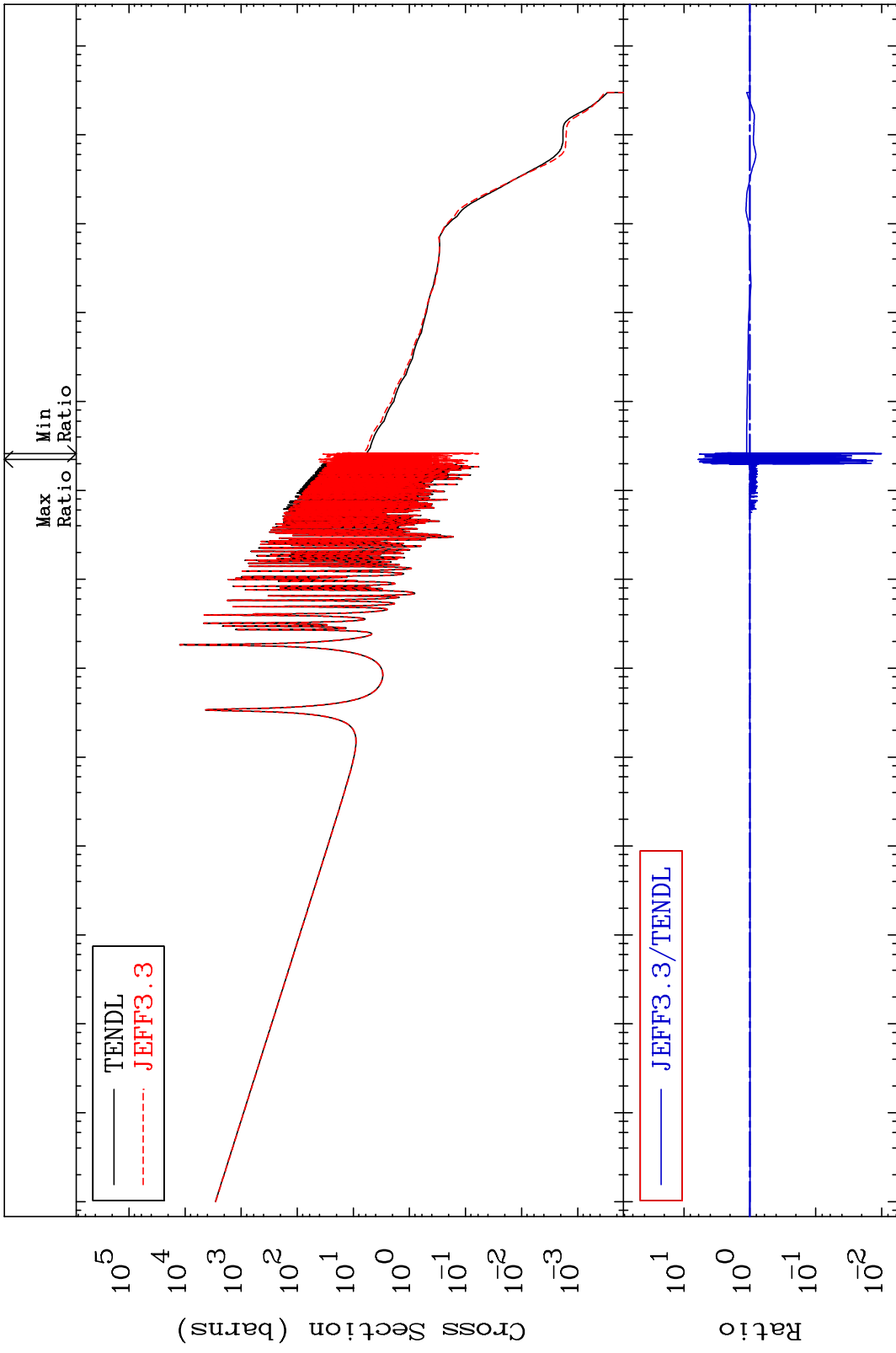


MAT 6234

62-Sm-147

-99.00 To 518.2 %

(n, γ)
Cross Section



Incident Energy (eV) 62-Sm-147

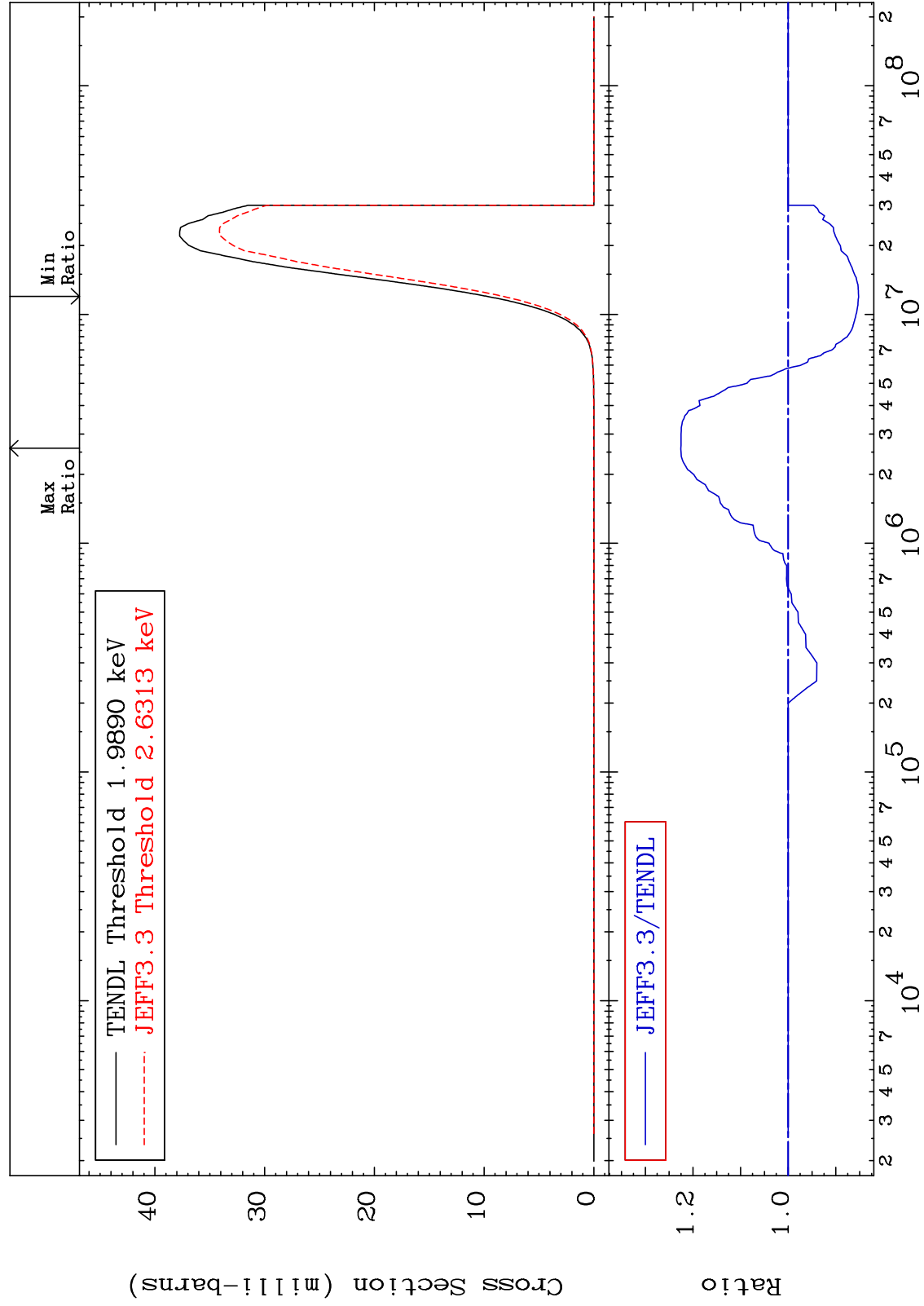
MAT 6234

(n, p)

62-Sm-147

Cross Section

-14.78 To 22.53 %



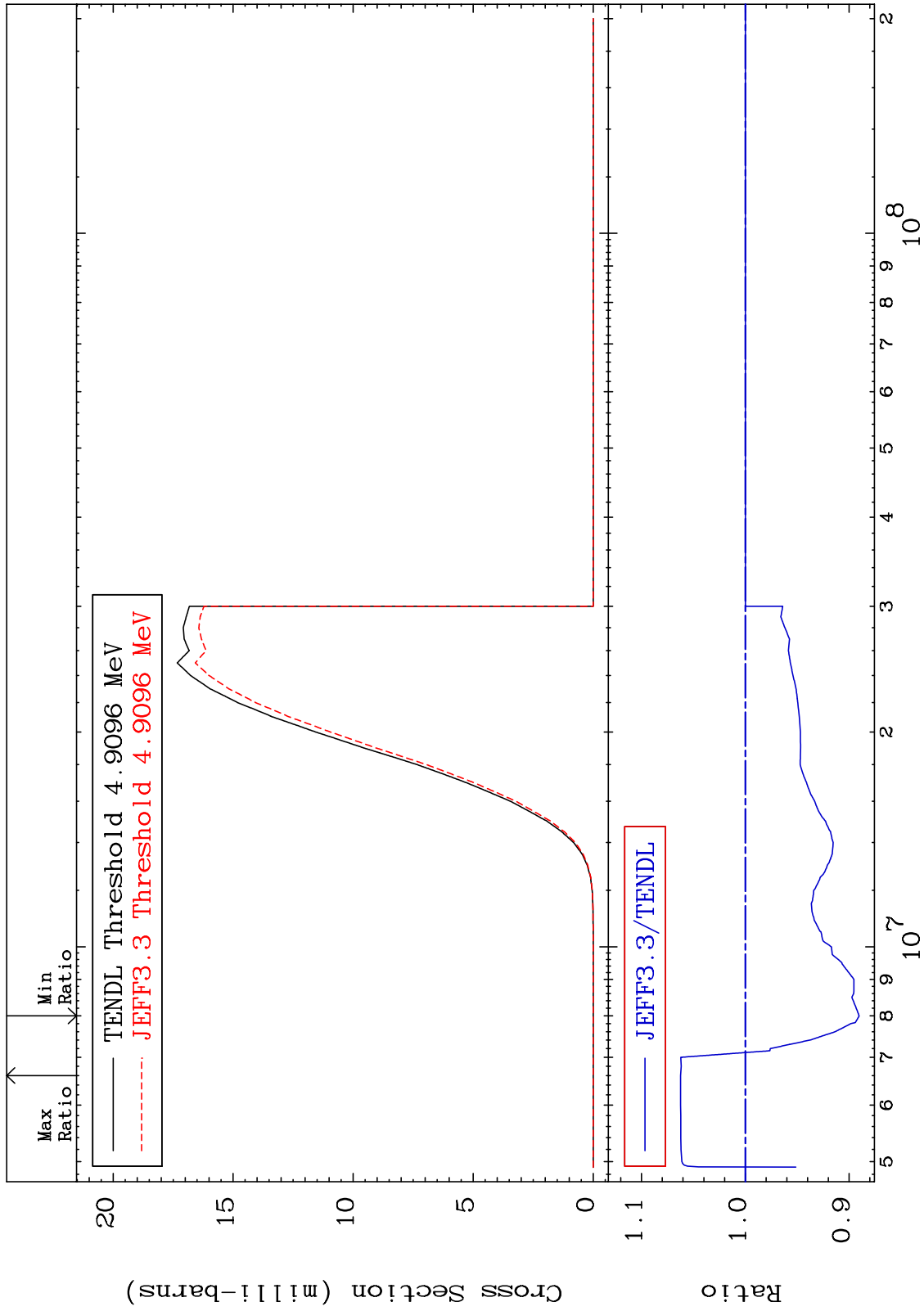
MAT 6234

(n, d)

62-Sm-147

Cross Section

-10.97 To 6.235 %



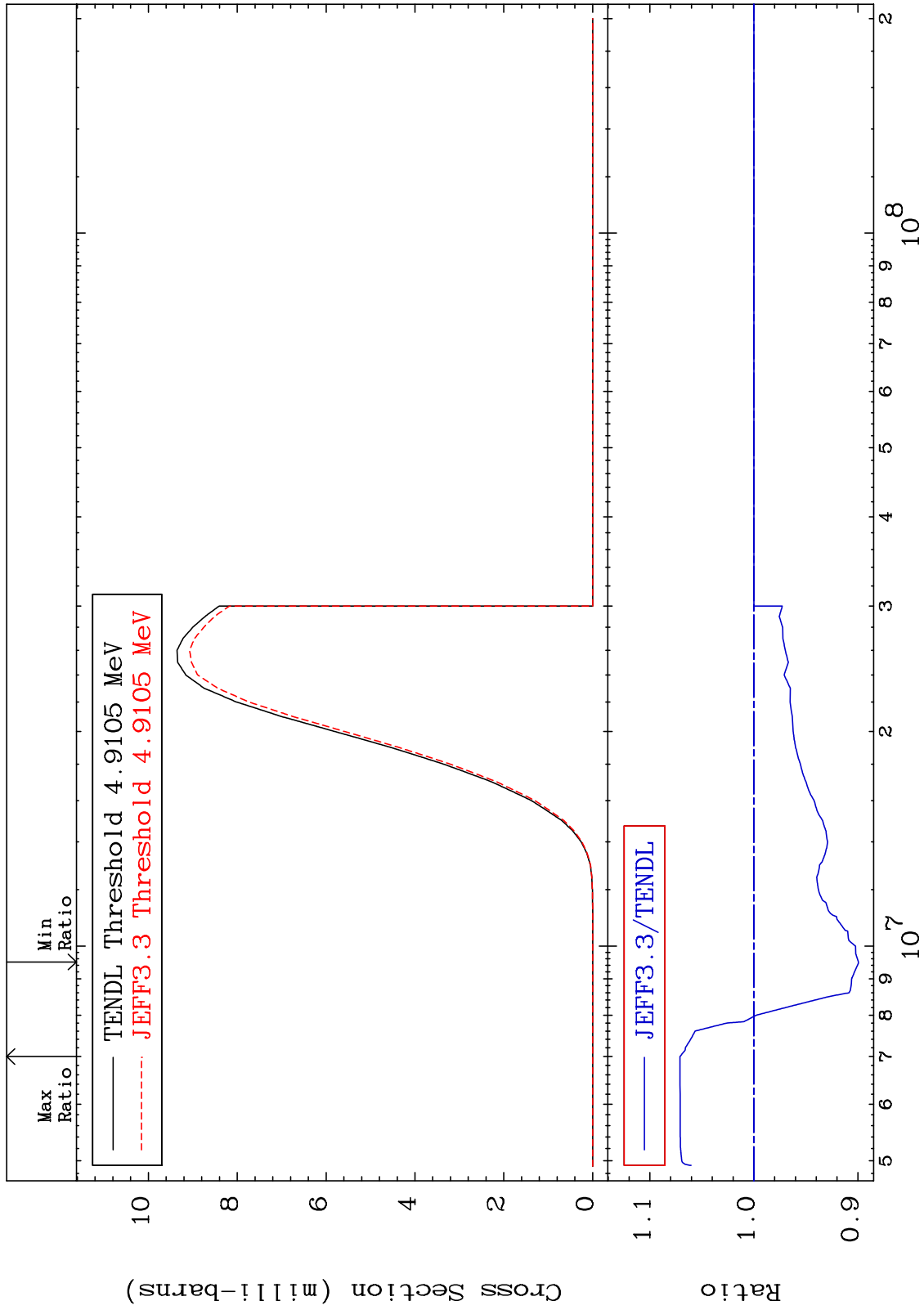
MAT 6234

(n, t)

62-Sm-147

Cross Section

-10.05 To 7.102 %



55

62-Sm-147

62-Sm-147

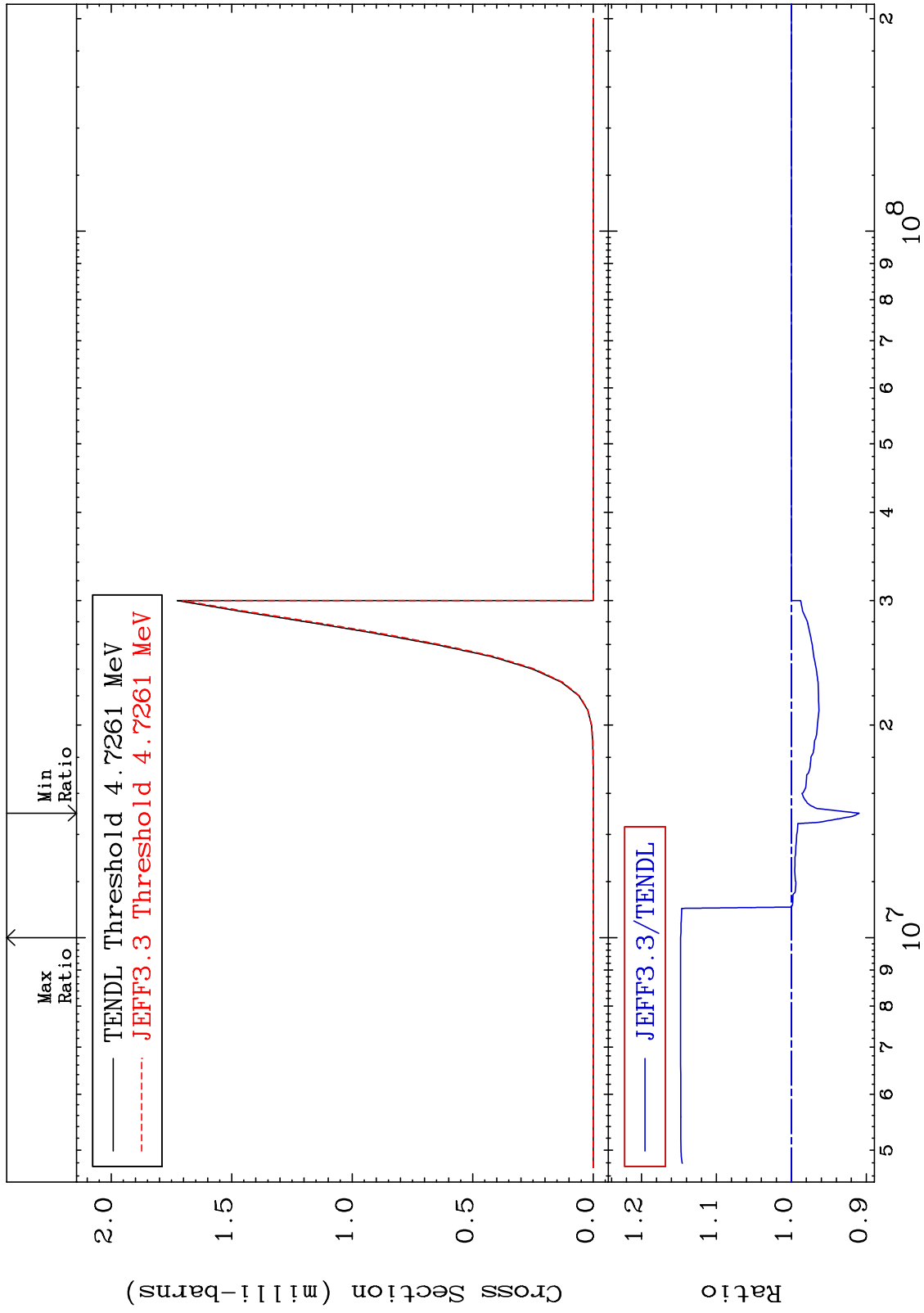
MAT 6234

(n, He-3)

62-Sm-147

Cross Section

-9.042 To 14.78 %



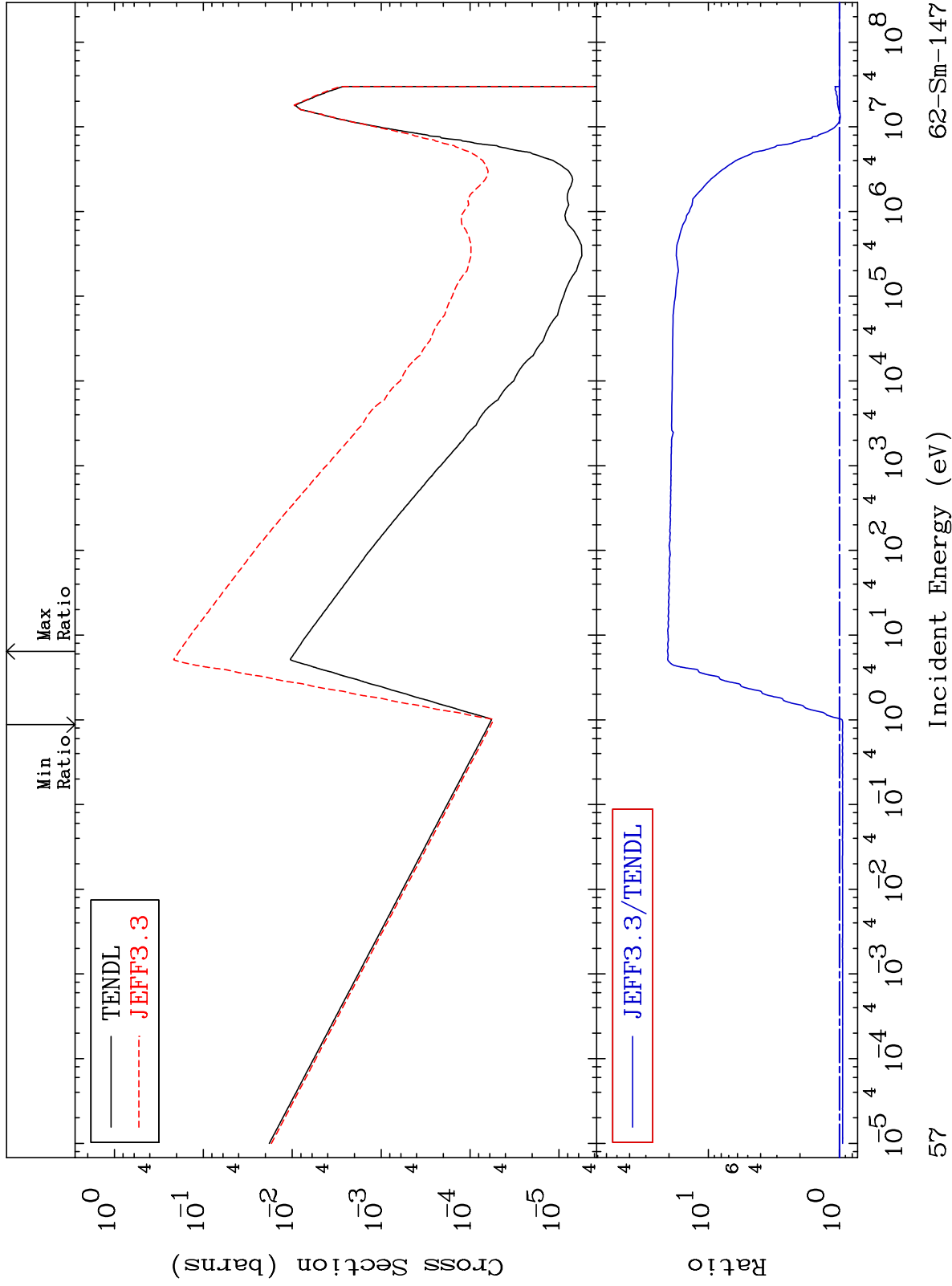
56

Incident Energy (eV)

62-Sm-147

MAT 6234

(n, α)
Cross Section
62-Sm-147
-5.479 To 1951. %



57

62-Sm-147

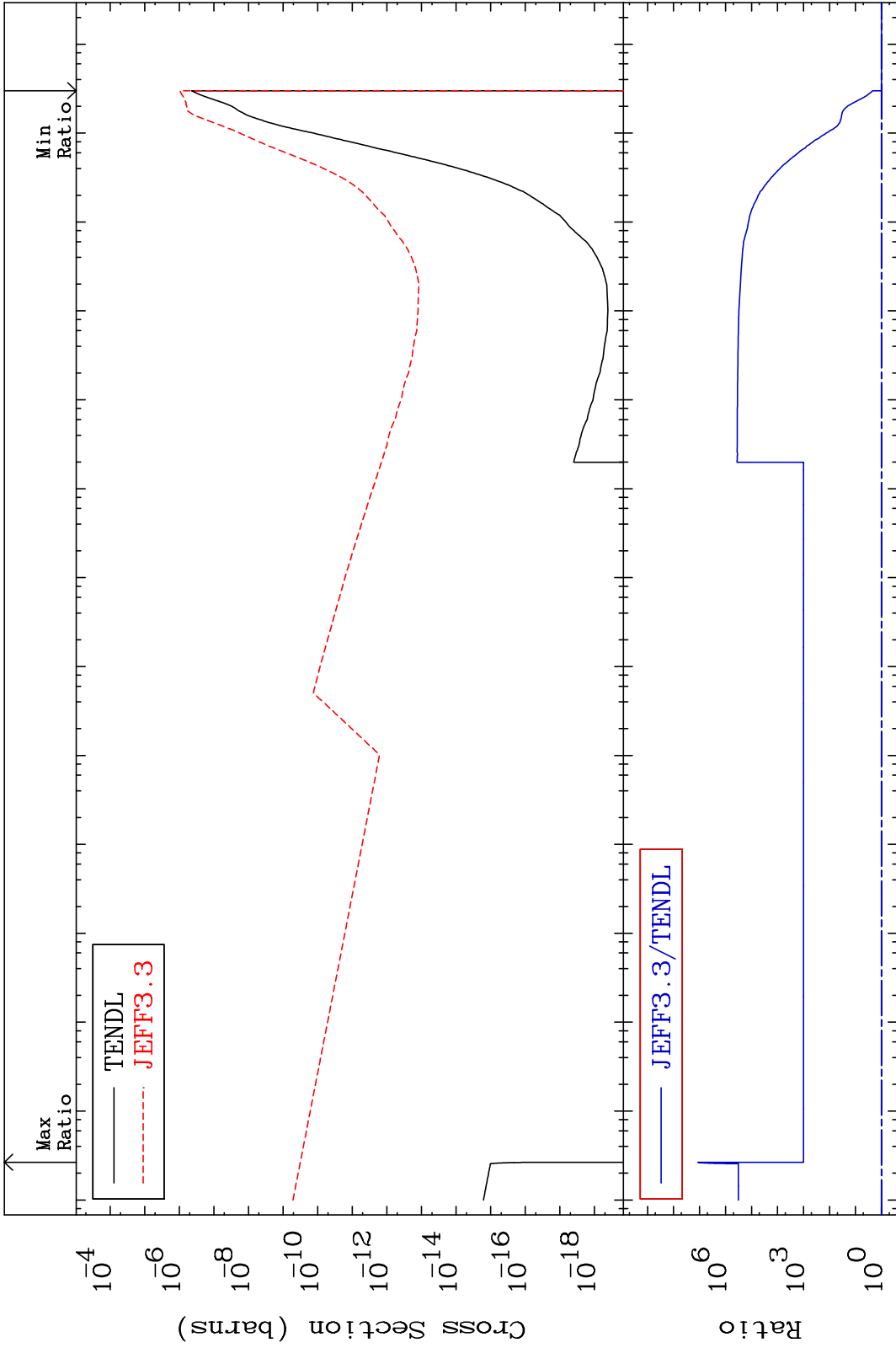
MAT 6234

(n, 2α)

62-Sm-147

Cross Section

0.000 To 9999. %



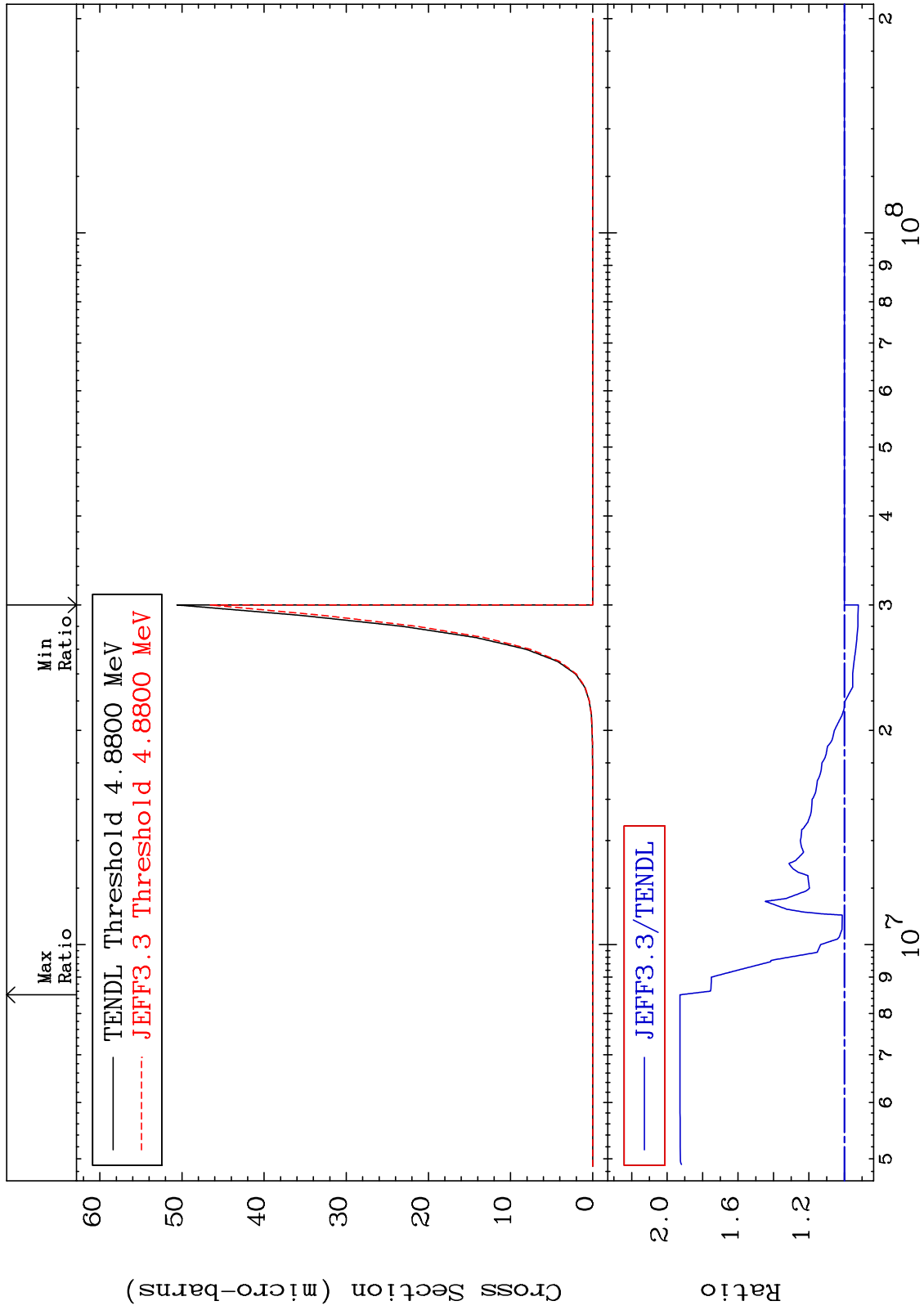
MAT 6234

(n,2p)

62-Sm-147

Cross Section

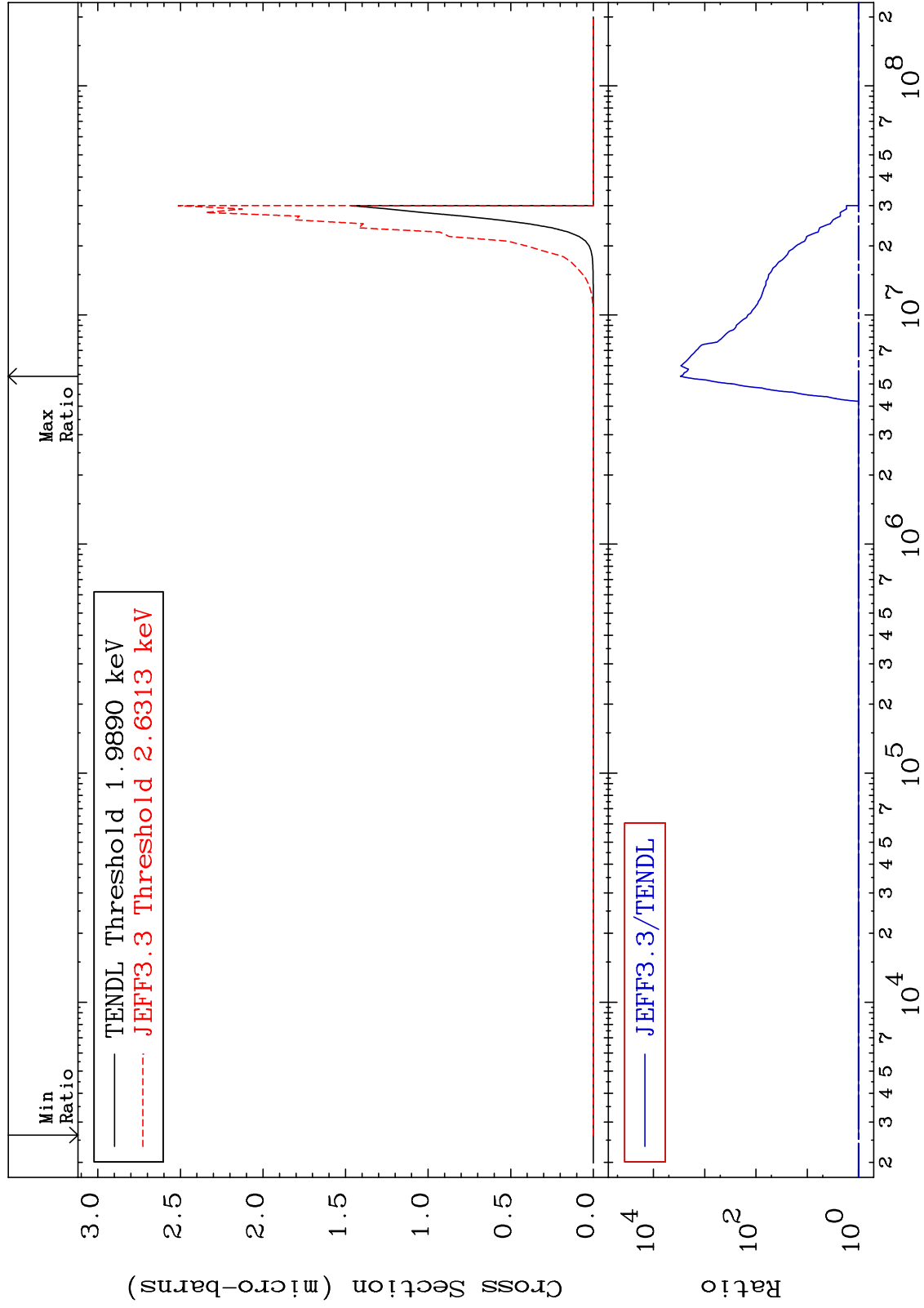
-7.902 To 92.72 %



MAT 6234

(n,p) α

62-Sm-147
Cross Section
0.000 To 9999. %



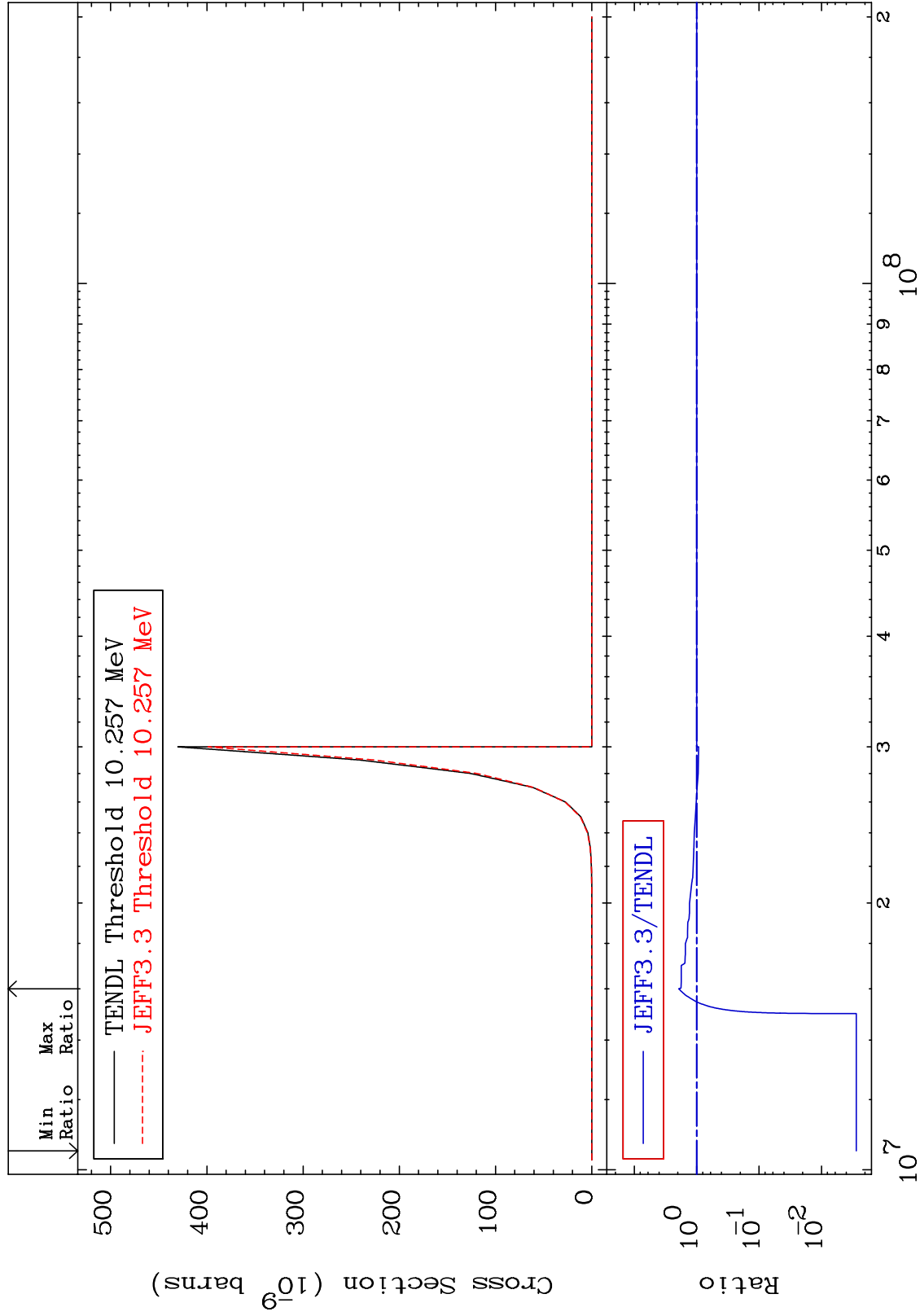
MAT 6234

(n,p) d

62-Sm-147

Cross Section

-99.72 To 93.94 %



61

Incident Energy (eV)

62-Sm-147

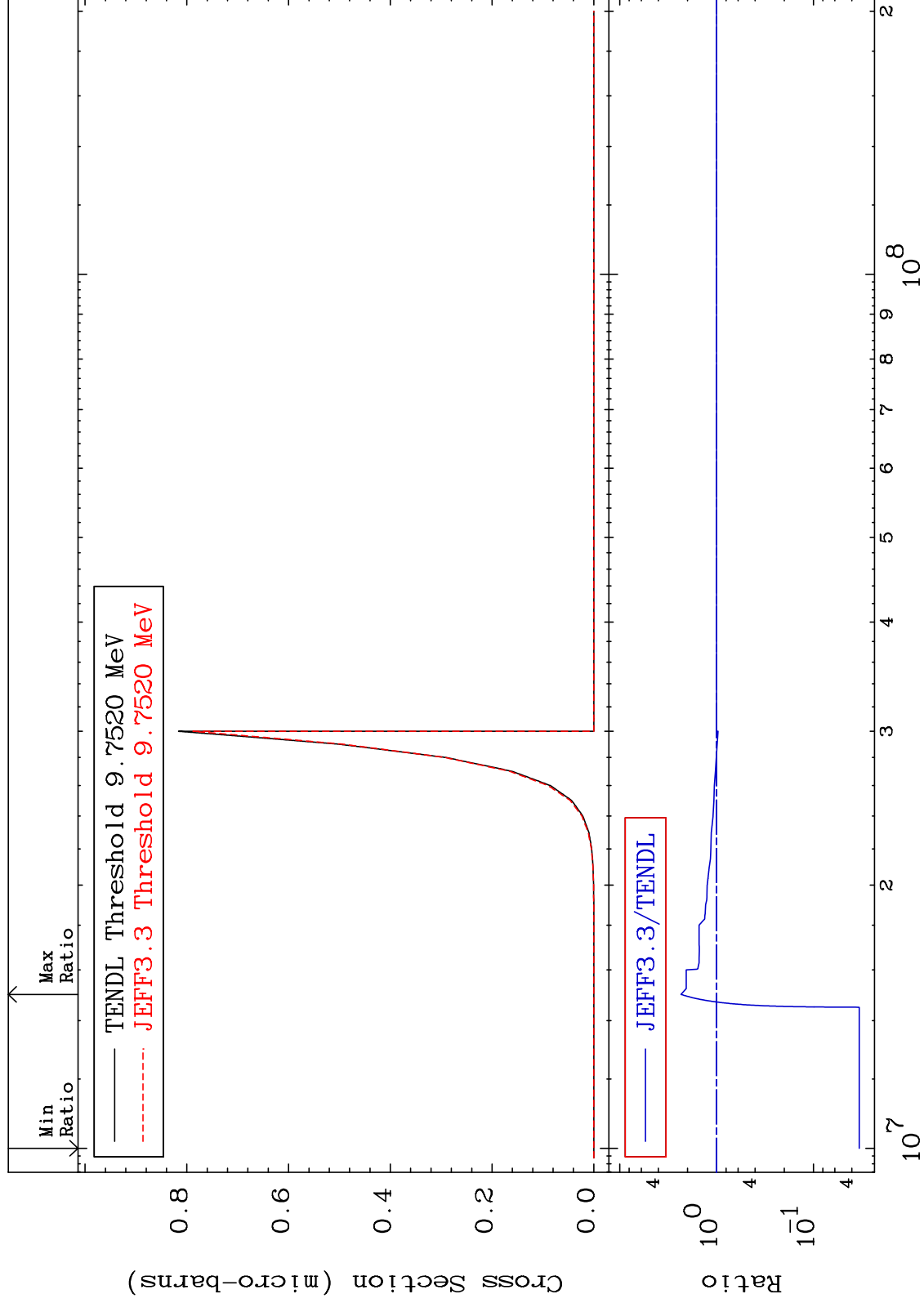
MAT 6234

(n,p) t

62-Sm-147

Cross Section

-96.64 To 133.0 %



62

Incident Energy (eV)

62-Sm-147

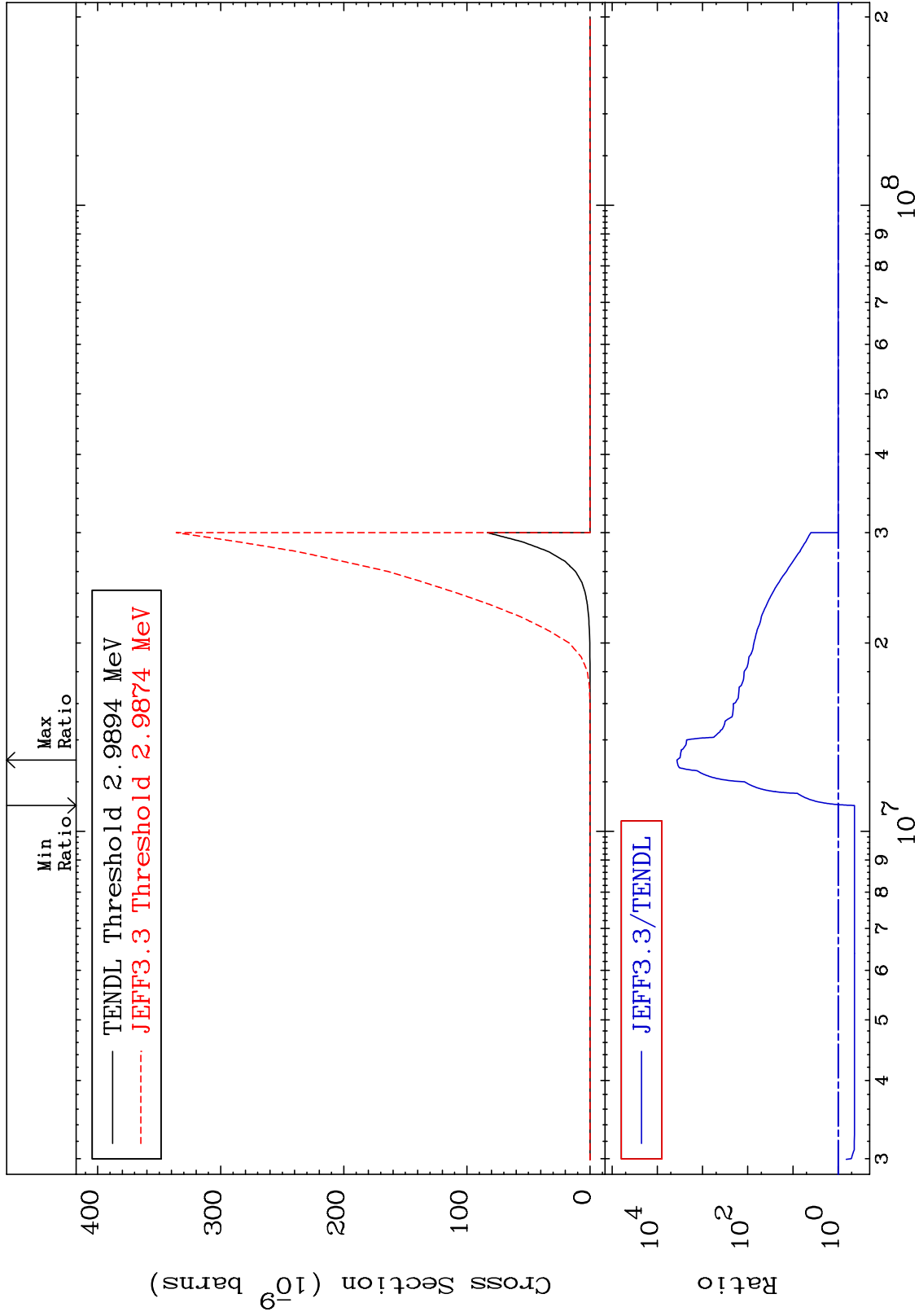
MAT 6234

(n,d) α

62-Sm-147

-56.56 To 9999. %

Cross Section



62-Sm-147

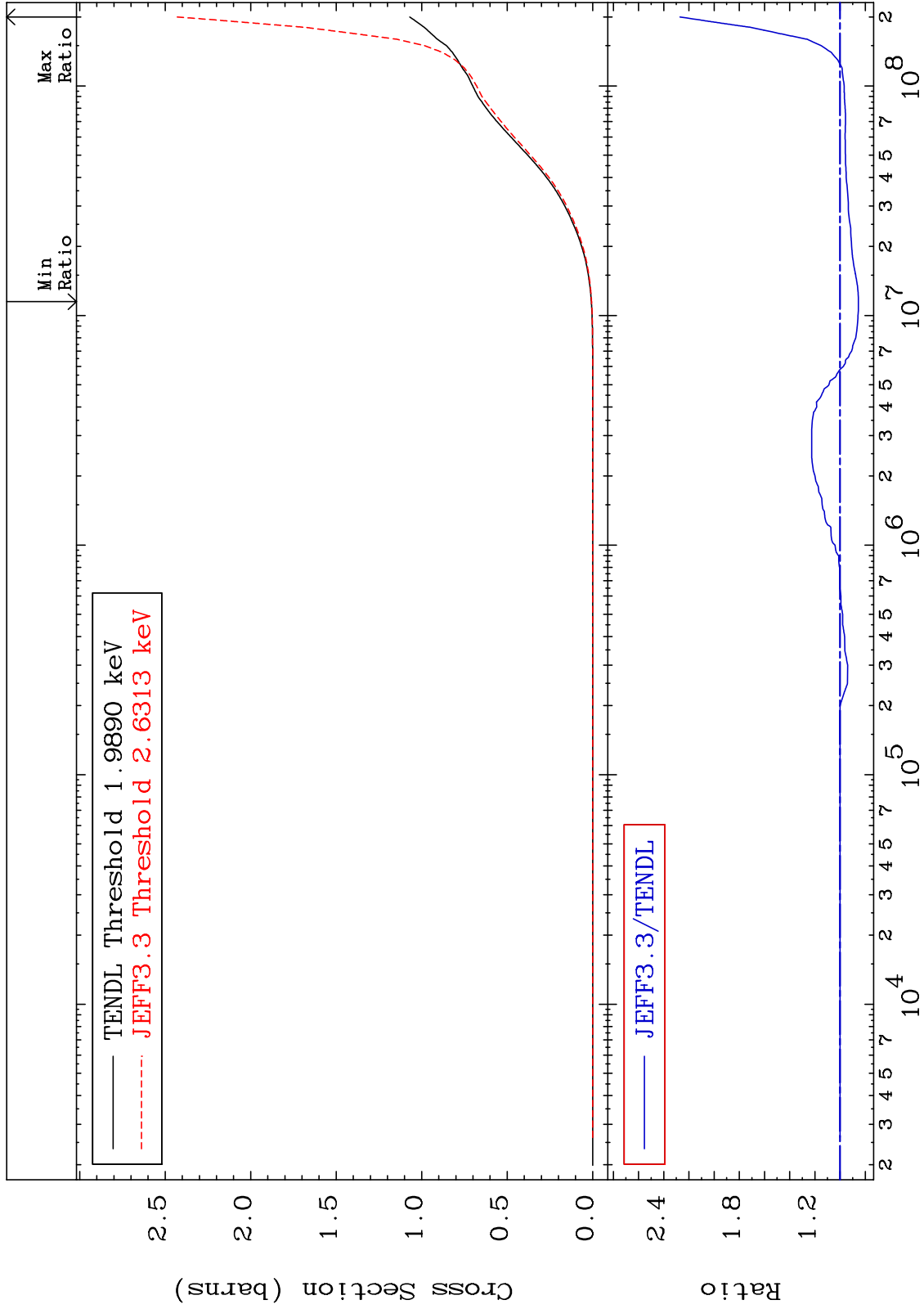
Incident Energy (eV)

63

MAT 6234

Hydrogen Production
Cross Section

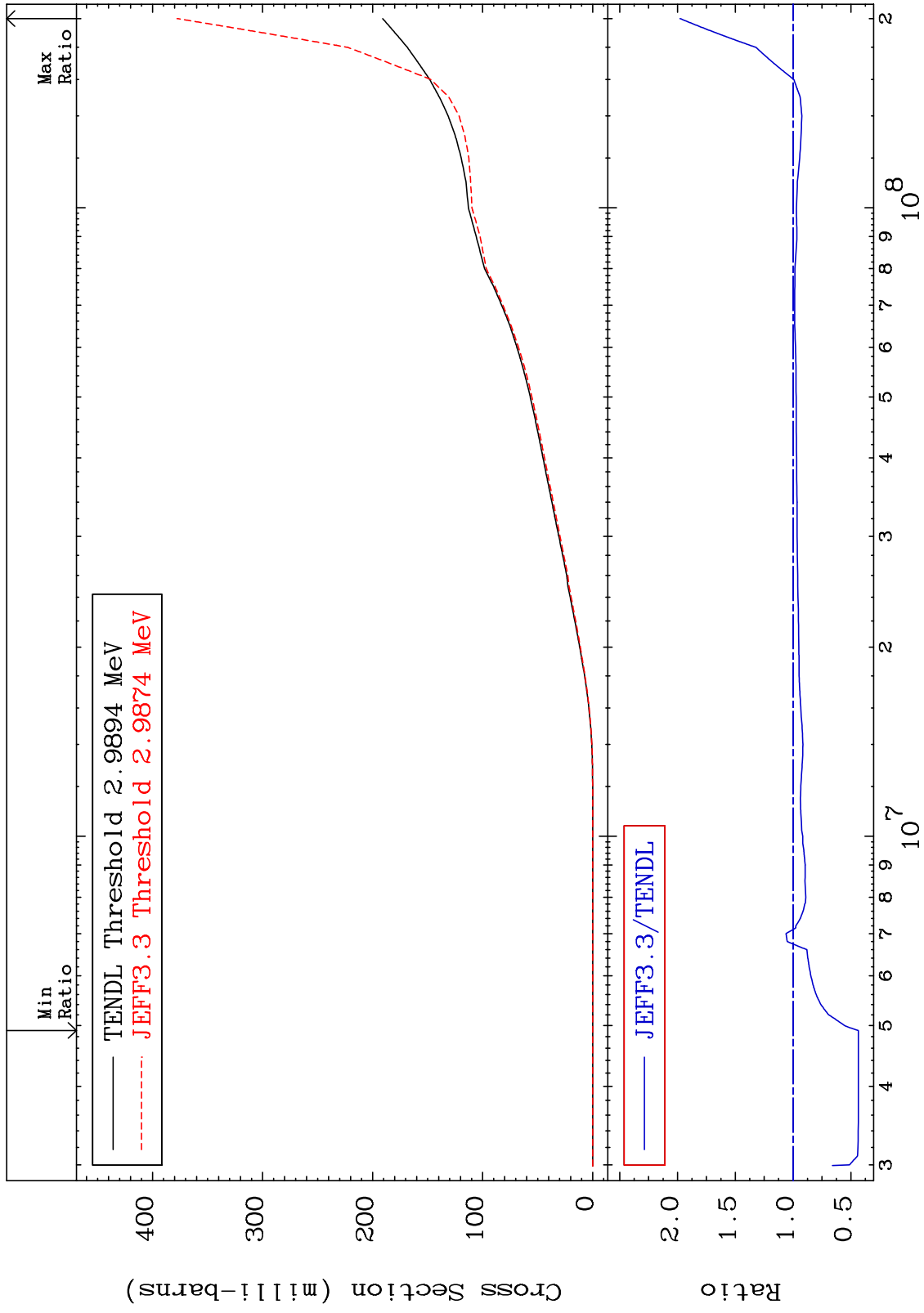
62-Sm-147
-14.58 To 127.1 %



MAT 6234

Deuterium Production
Cross Section

62-Sm-147
-56.54 To 97.83 %



65

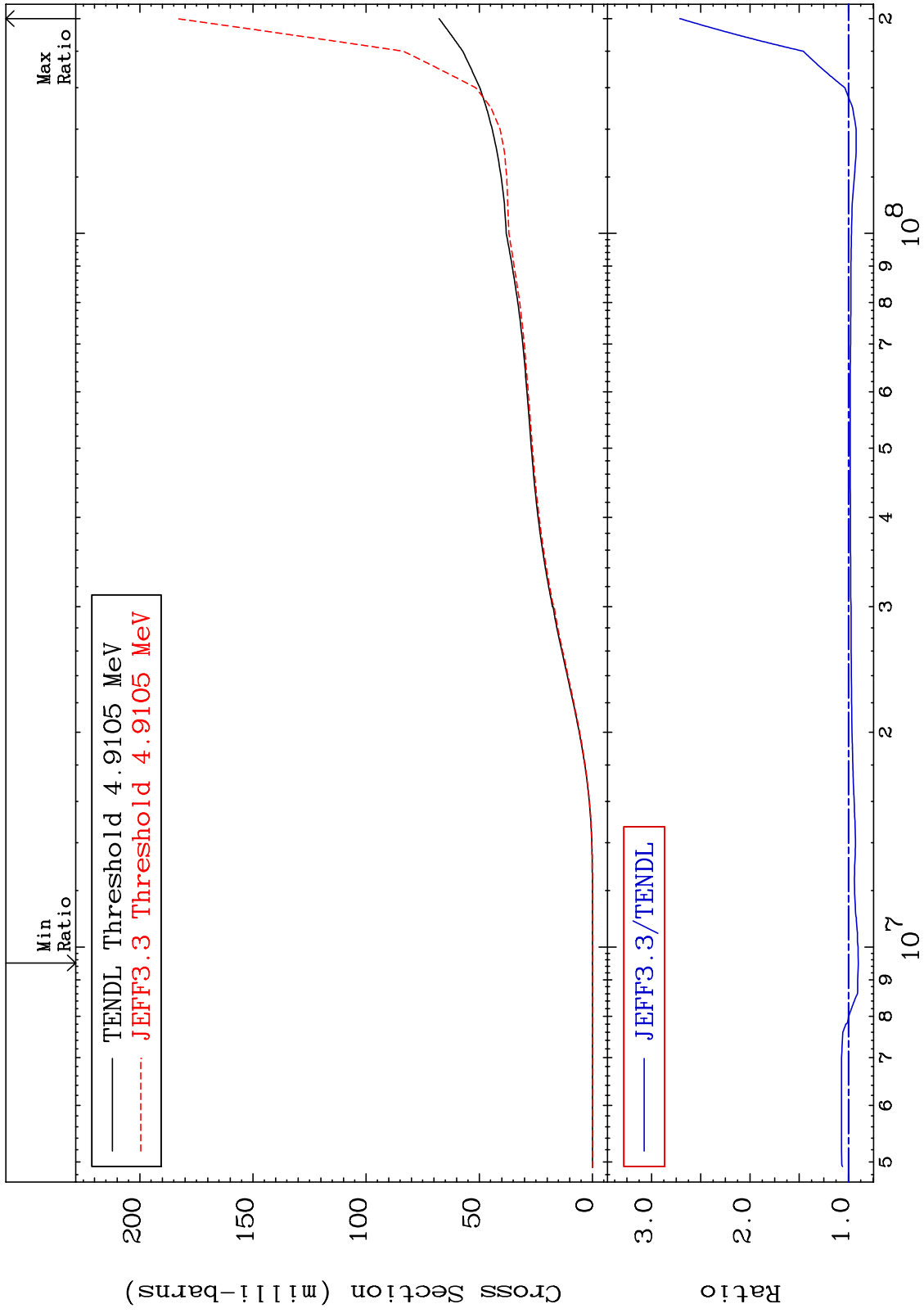
Incident Energy (eV)

62-Sm-147

MAT 6234

Tritium Production
Cross Section

62-Sm-147
-10.05 To 171.3 %



66

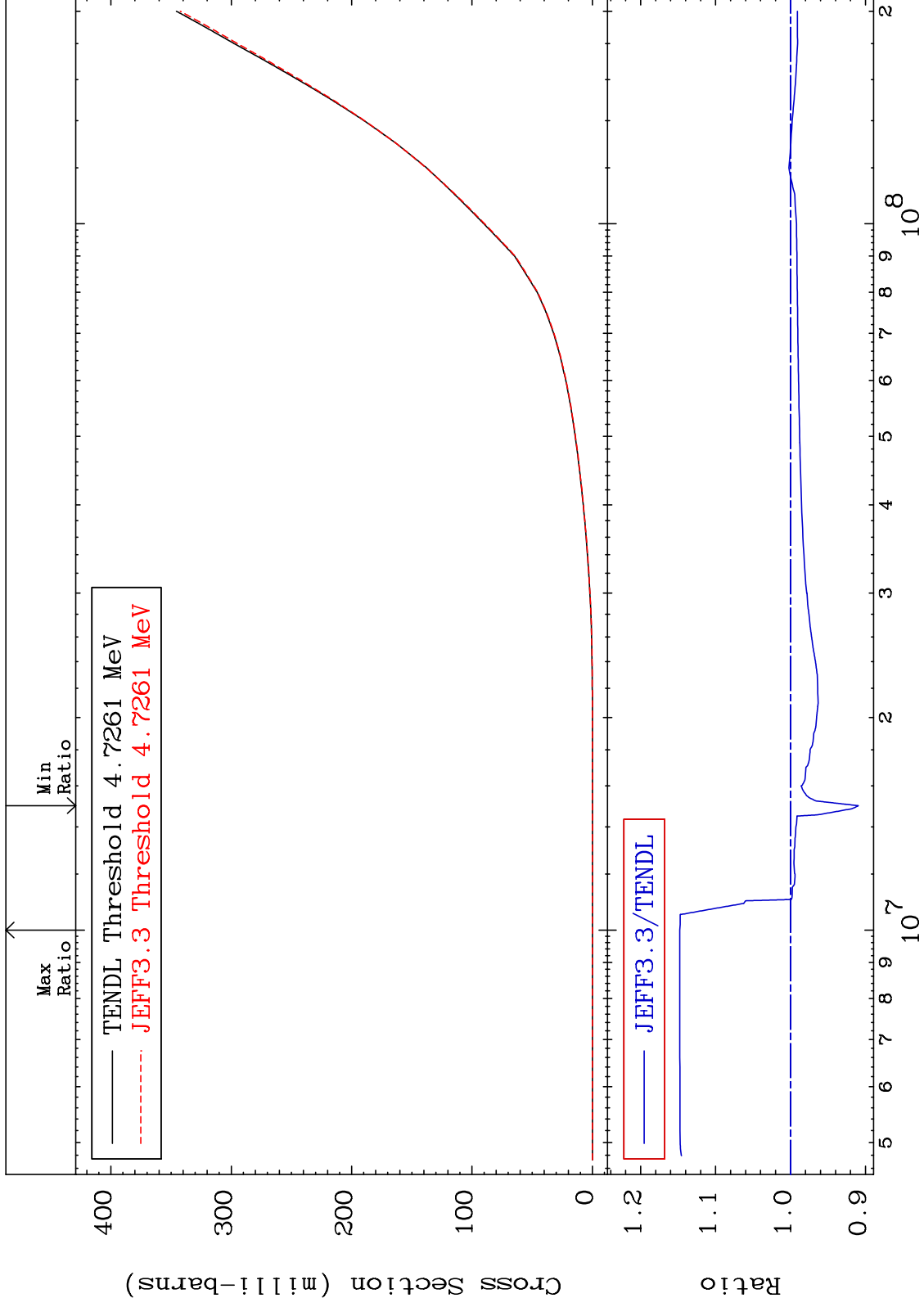
Incident Energy (eV)

62-Sm-147

MAT 6234

He-3 Production
Cross Section

62-Sm-147
-9.042 To 14.78 %



67

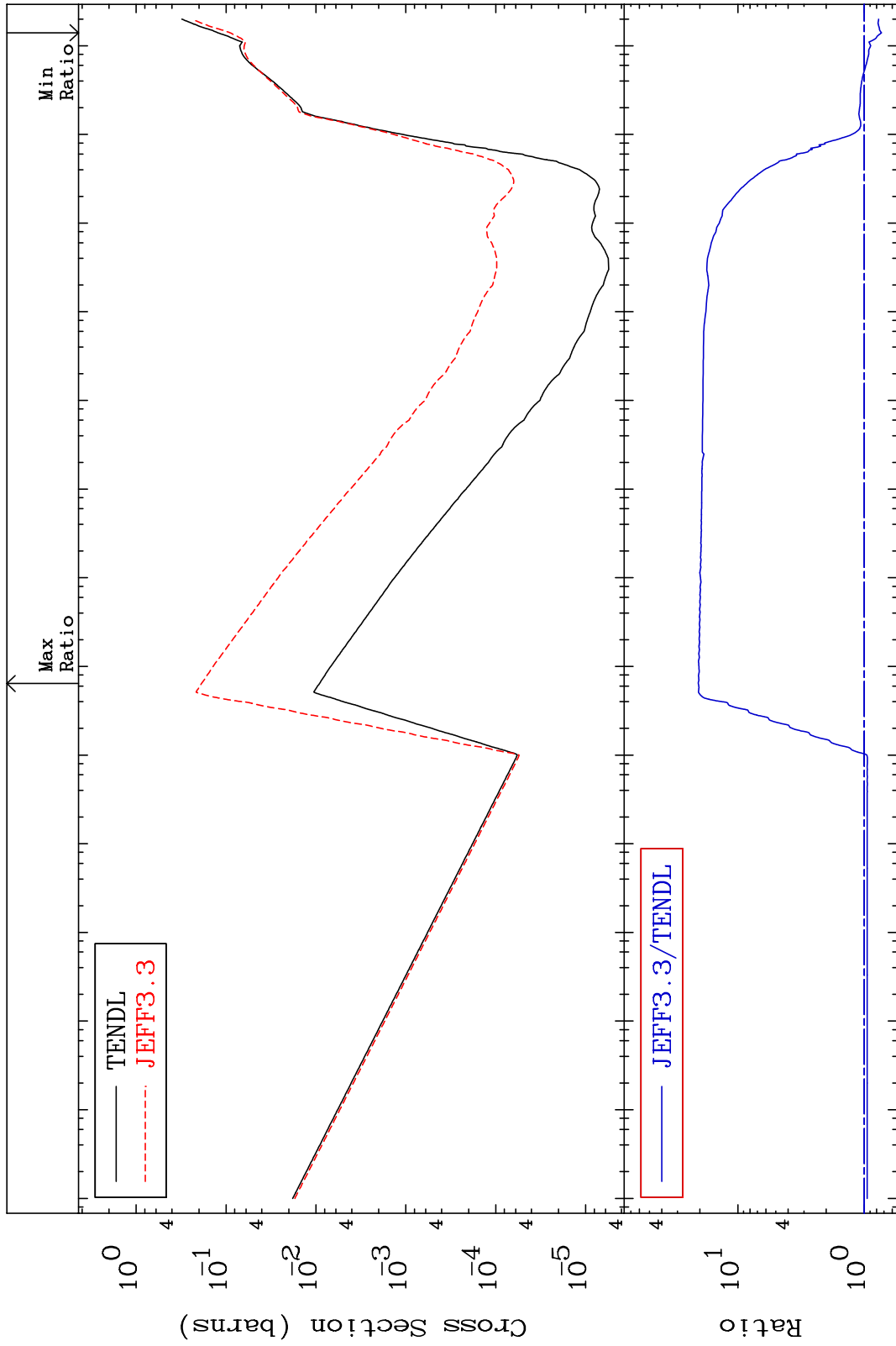
Incident Energy (eV)

62-Sm-147

MAT 6234

He-4 Production
Cross Section

62-Sm-147
-26.97 To 1951. %



68

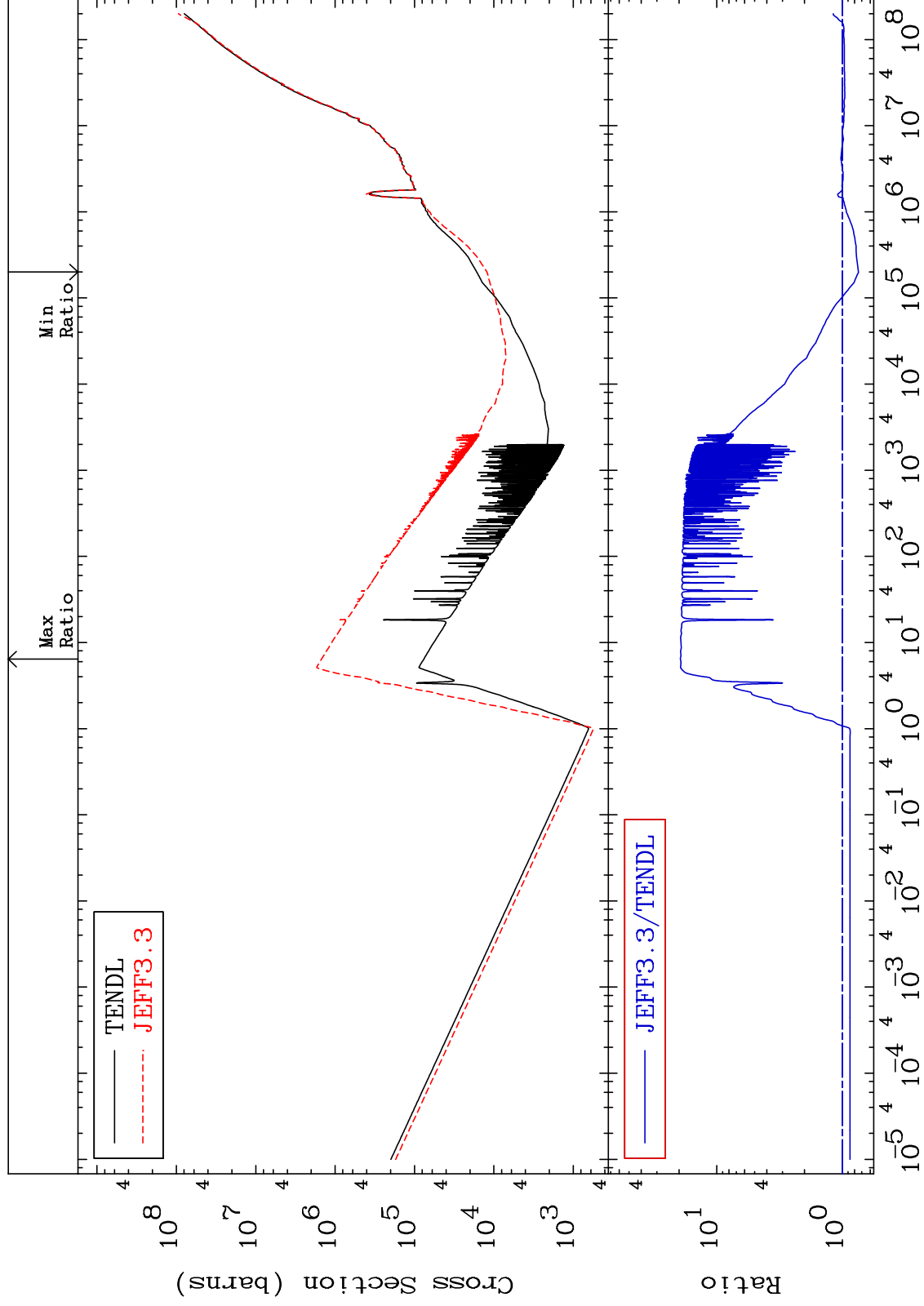
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma total (eV-barns)
Cross Section

62-Sm-147
-25.71 To 1848. %



69

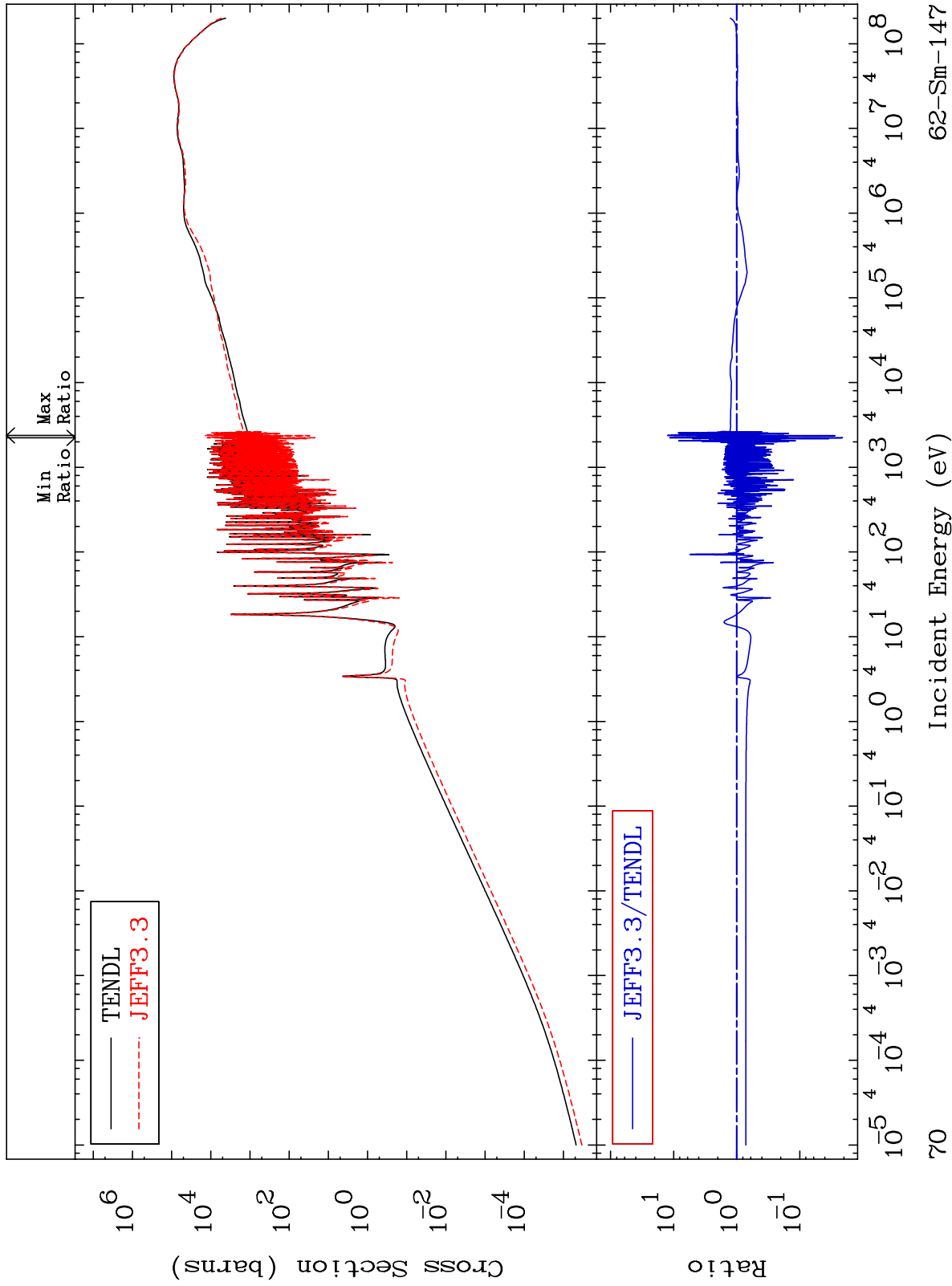
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma elastic
Cross Section

62-Sm-147
-97.91 To 1150. %



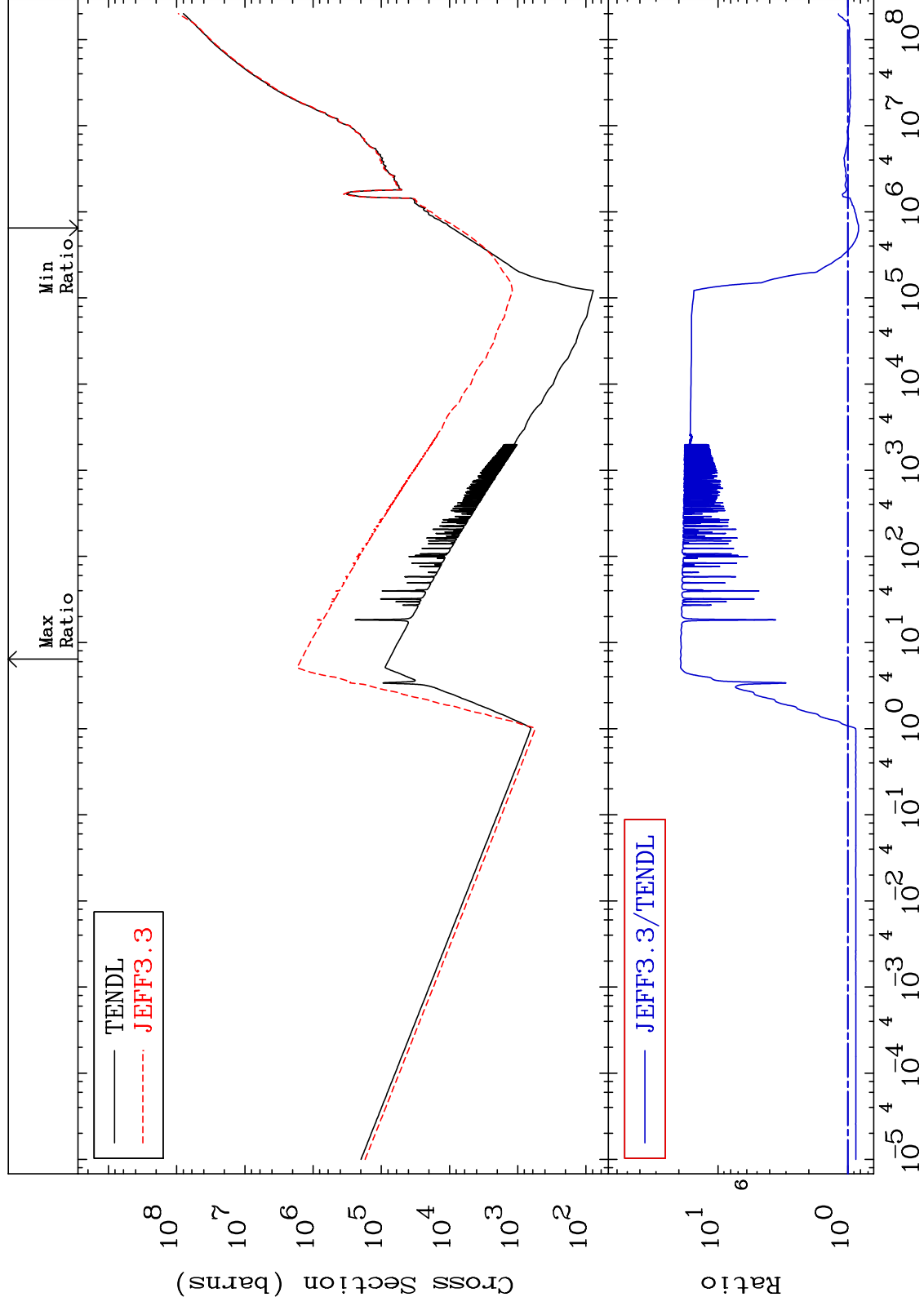
70

62-Sm-147

MAT 6234

Kerma non-elastic (all but mt2)
Cross Section

62-Sm-147
-17.21 To 1848. %



71

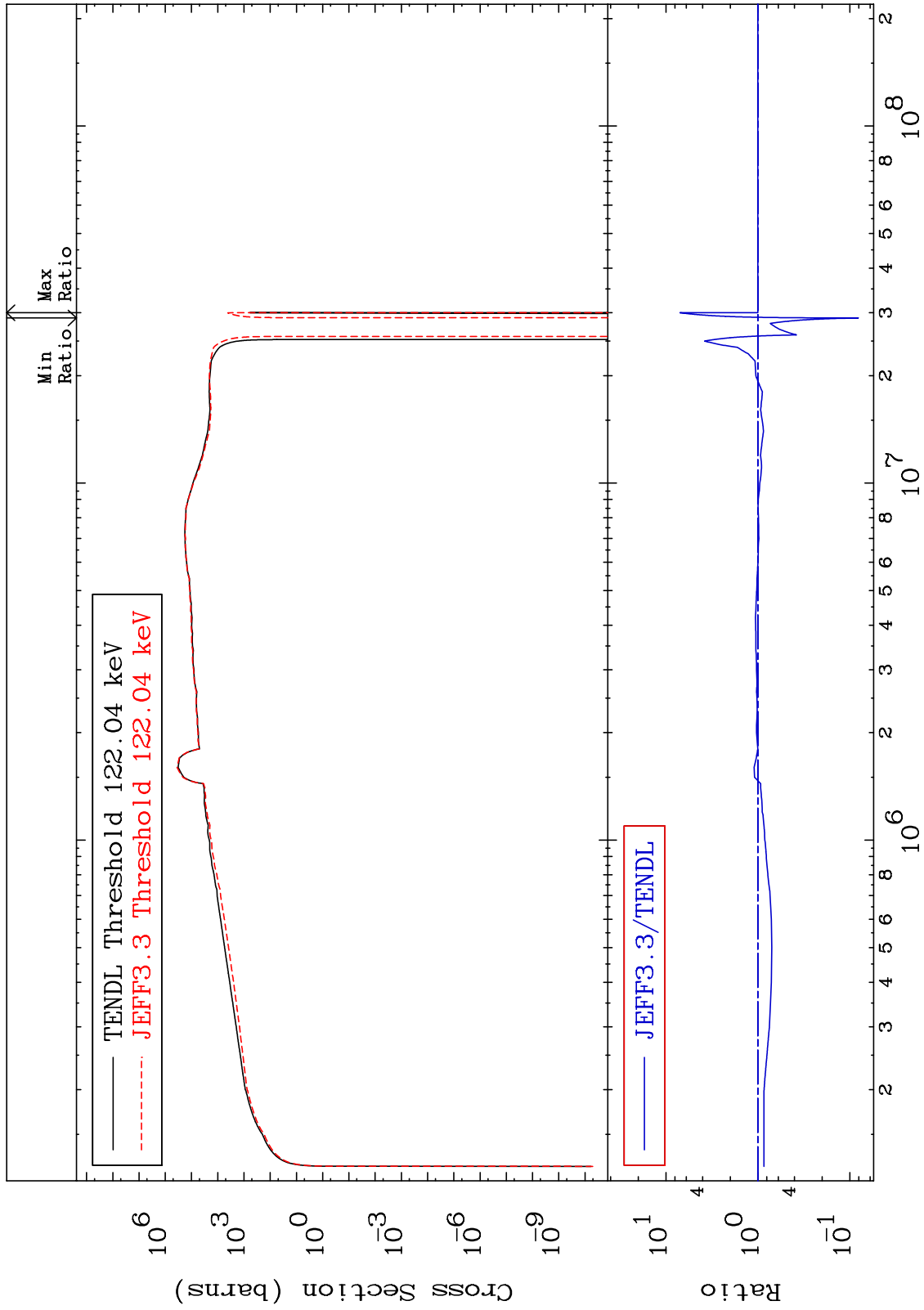
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma inelastic (mt51-91)
Cross Section

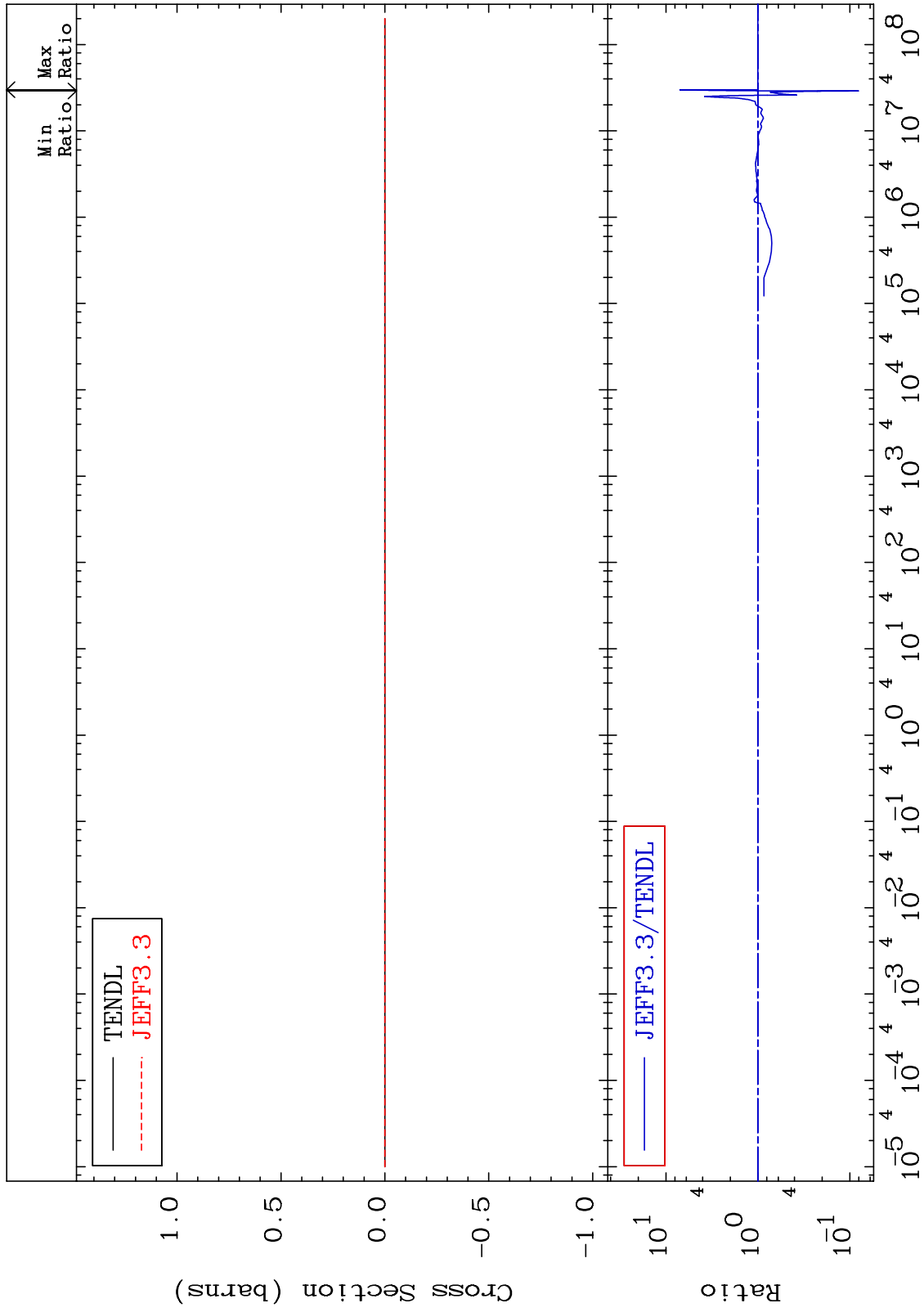
62-Sm-147
-91.93 To 603.7 %



MAT 6234

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

62-Sm-147
-91.93 To 603.7 %



73

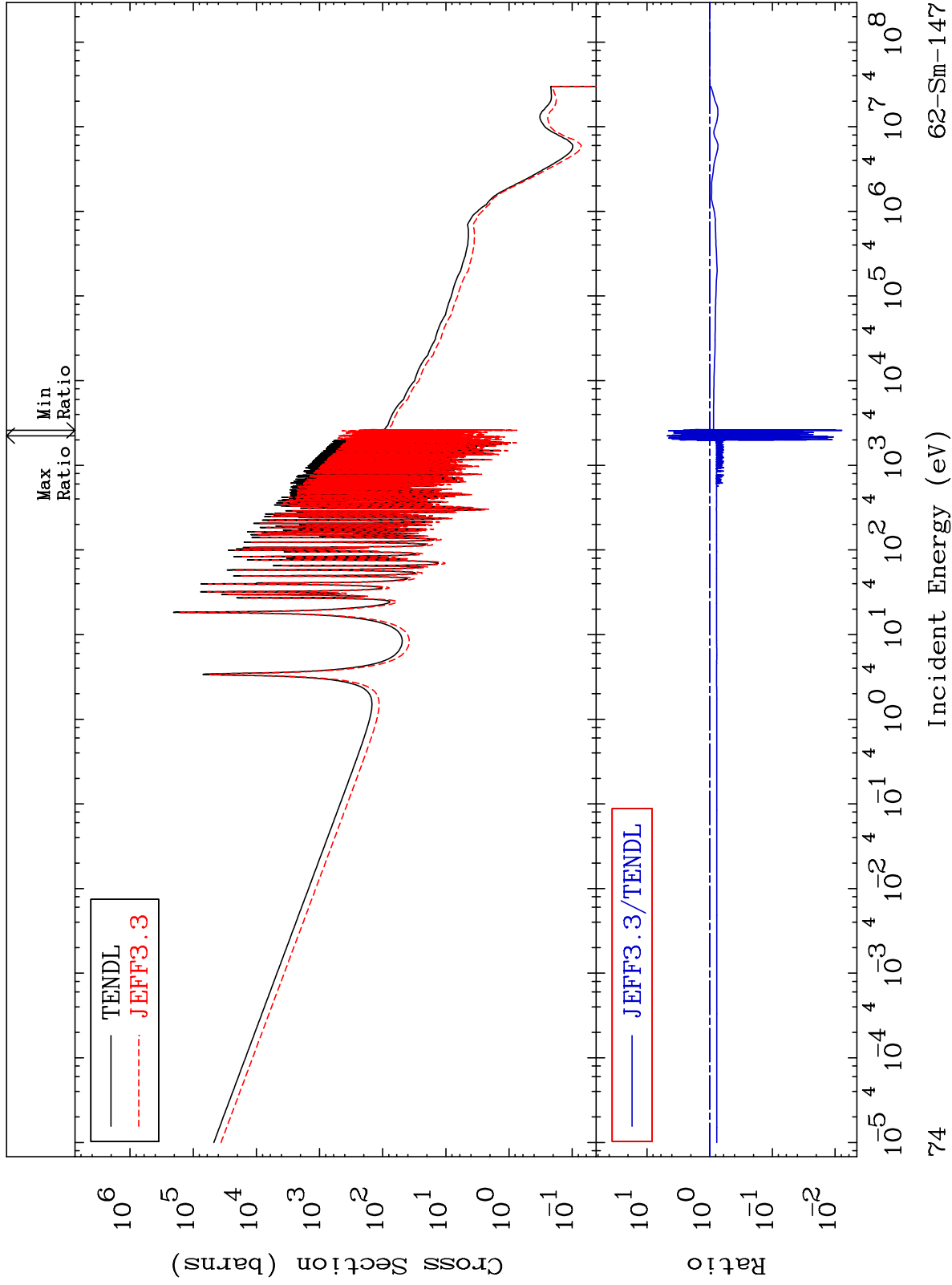
Incident Energy (eV)

62-Sm-147

MAT 6234

Kerma capture (mt102)
Cross Section

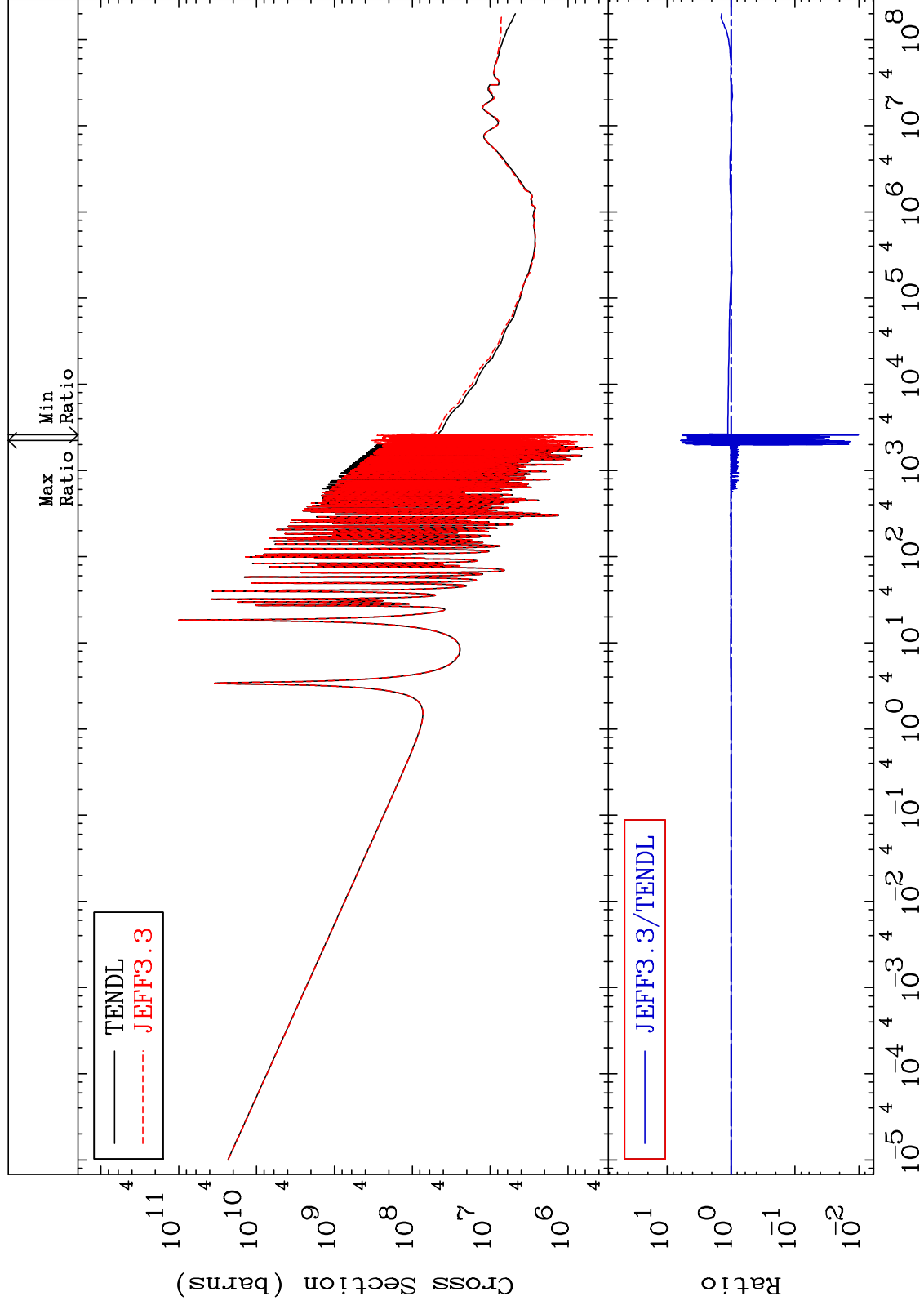
62-Sm-147
-99.22 To 379.1 %



MAT 6234

Total photon (eV-barns)
Cross Section

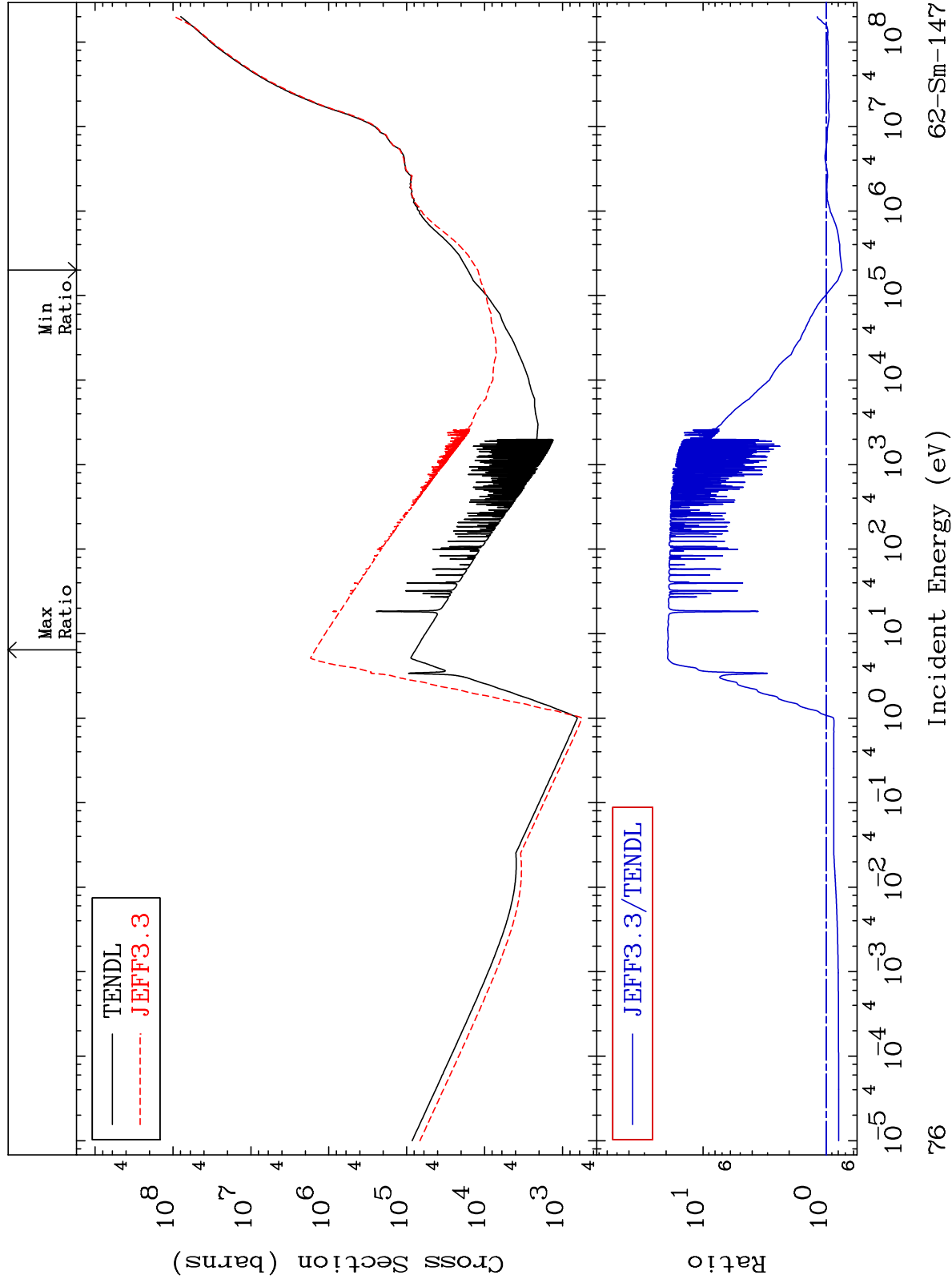
62-Sm-147
-98.99 To 518.2 %



MAT 6234

Total kinematic kerma (high limit)
Cross Section

62-Sm-147
-25.68 To 1847. %



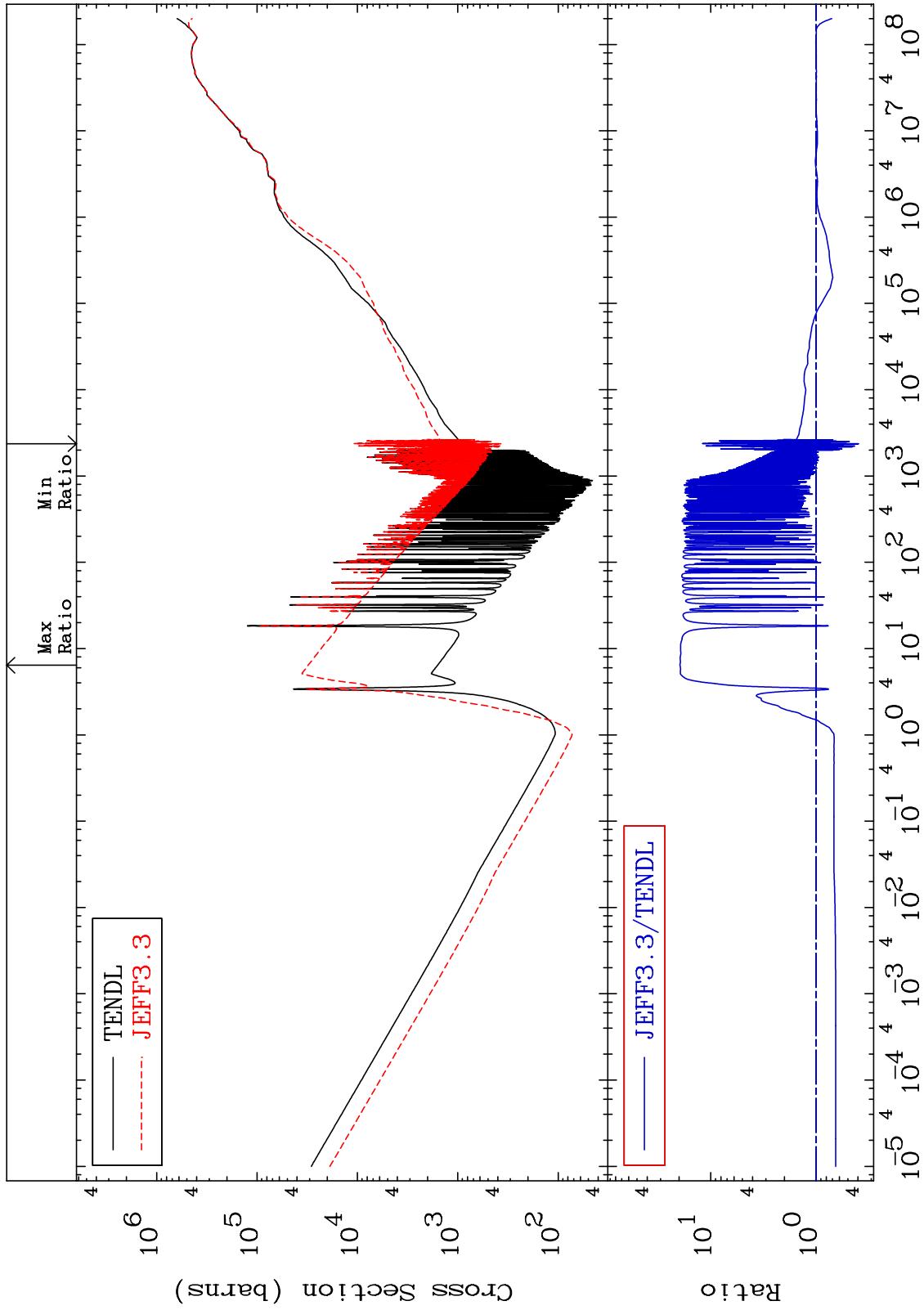
76

62-Sm-147

MAT 6234

Dpa total (eV-barns)
Cross Section

62-Sm-147
-60.34 To 1856. %



77

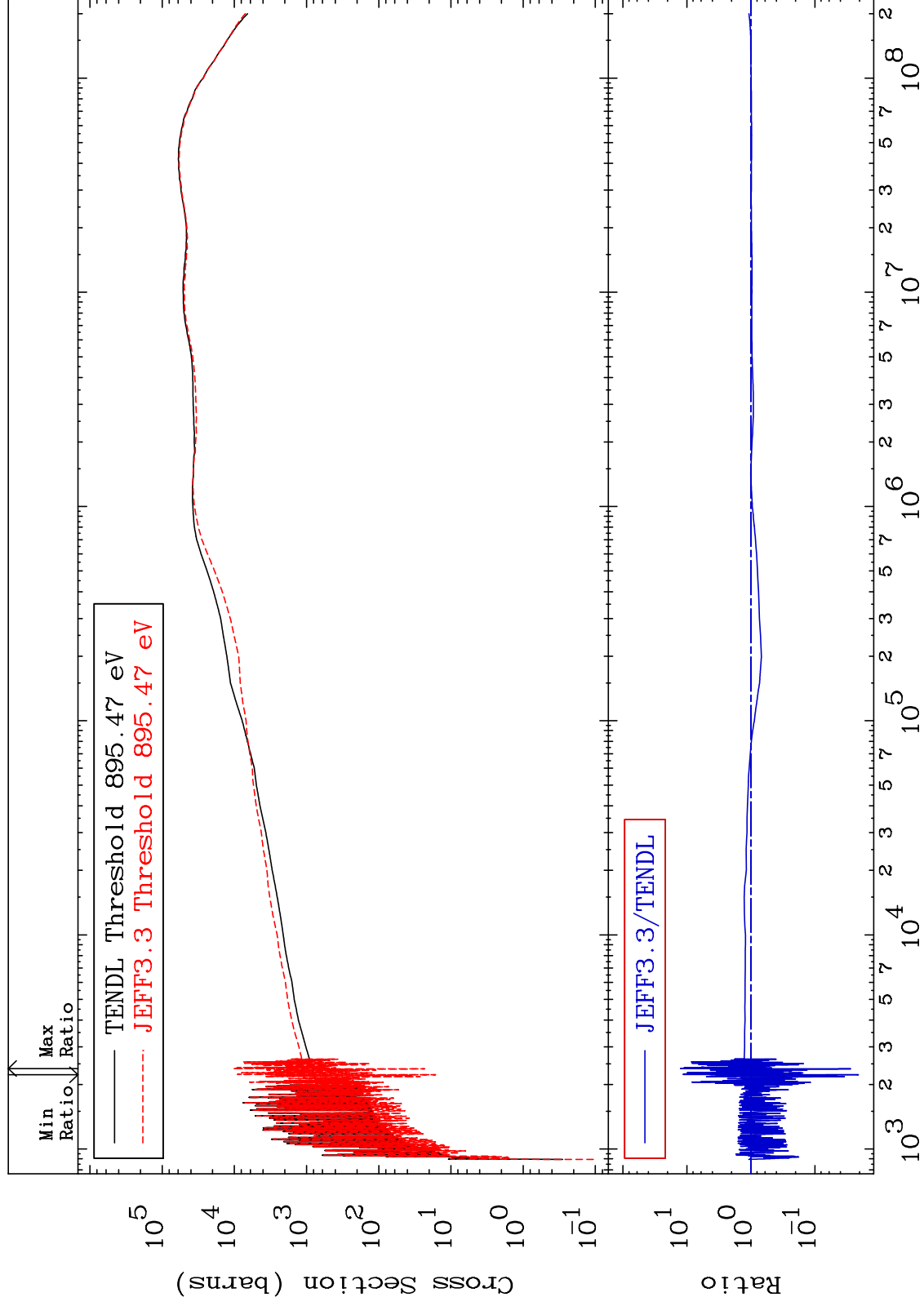
Incident Energy (eV)

62-Sm-147

MAT 6234

Dpa elastic (mt2)
Cross Section

62-Sm-147
-97.92 To 1160. %



78

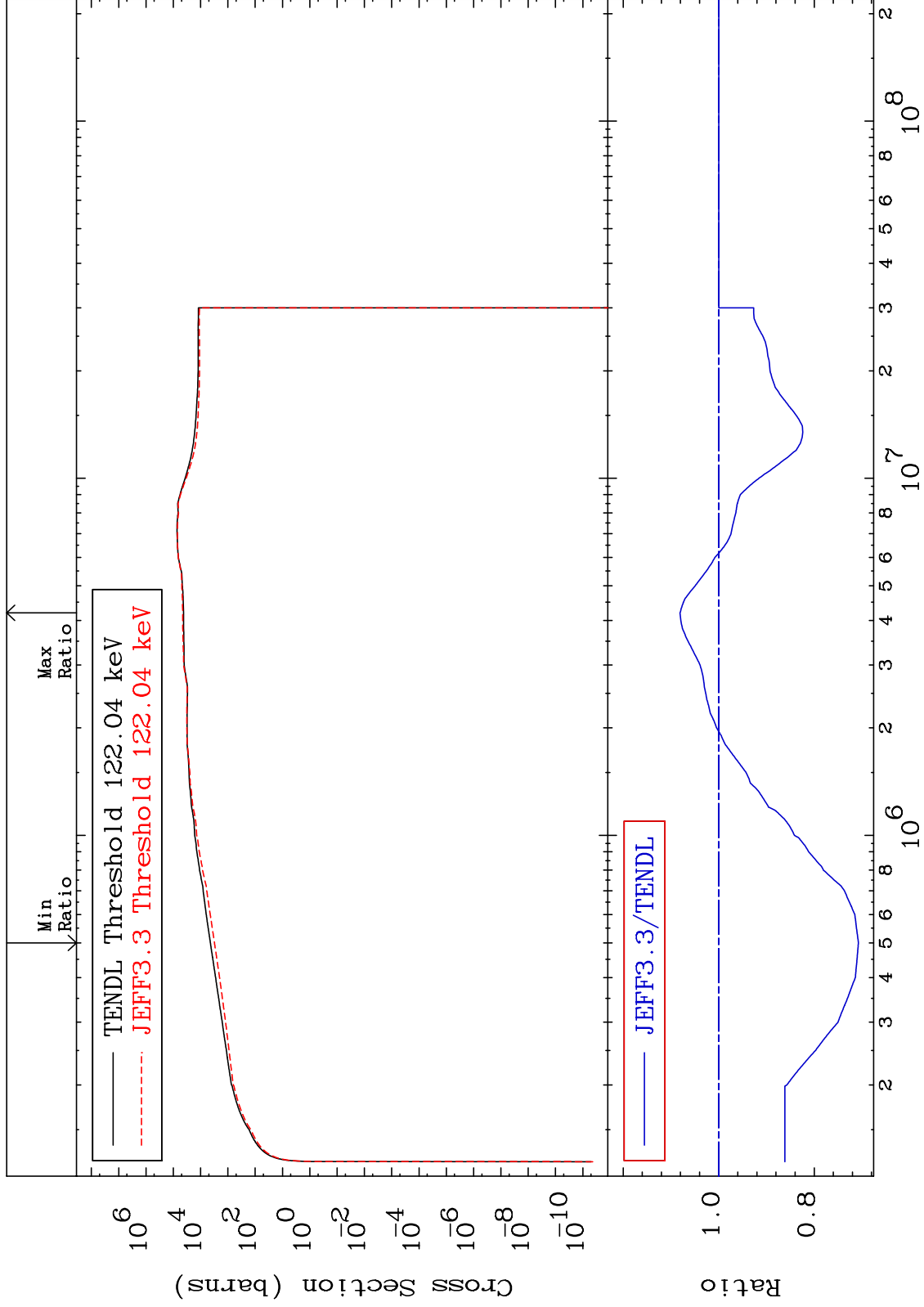
Incident Energy (eV)

62-Sm-147

MAT 6234

Dpa inelastic (mt51-91)
Cross Section

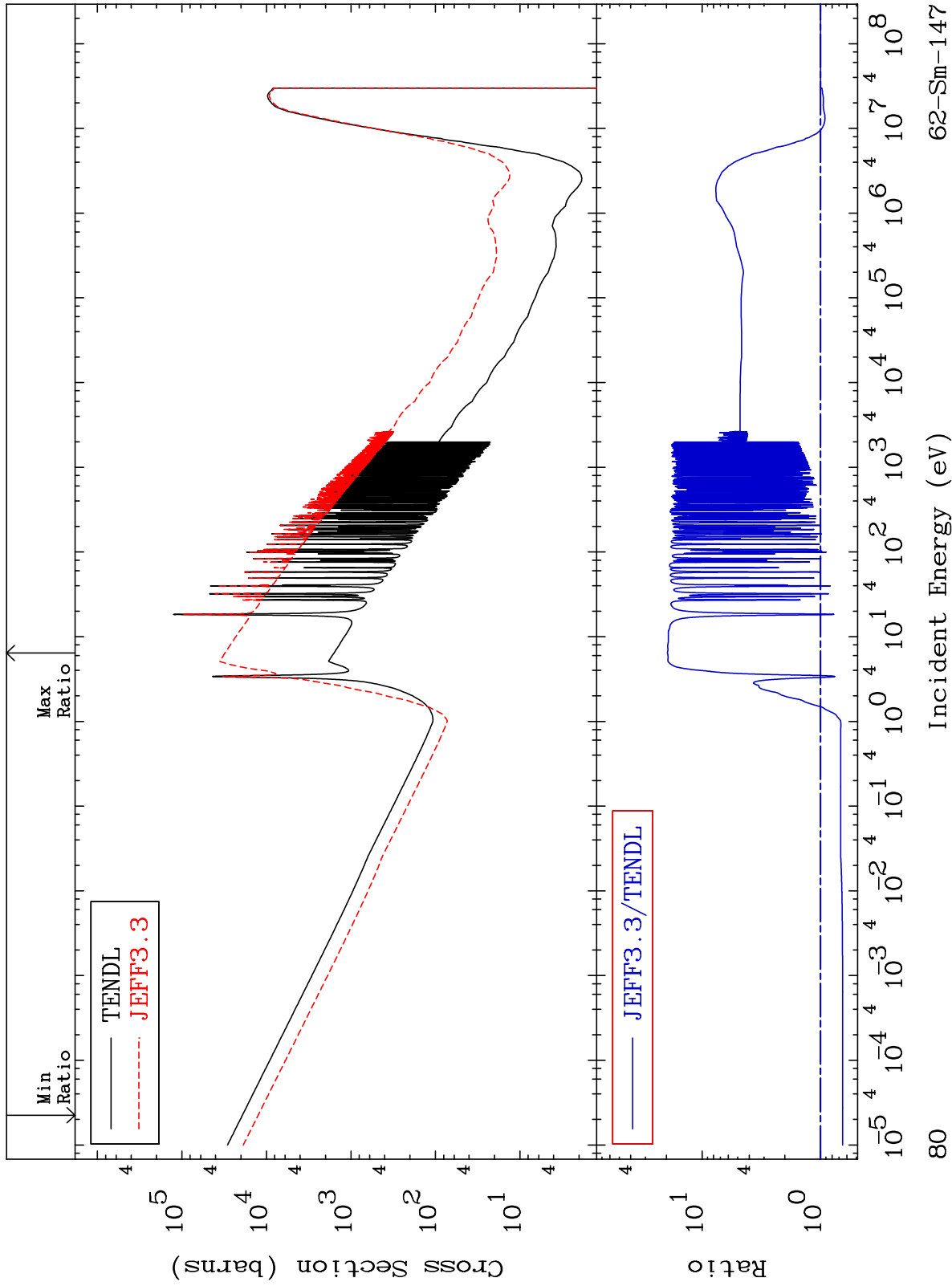
62-Sm-147
-29.25 To 8.094 %



MAT 6234

Dpa disappearance (mt102 -120)
Cross Section

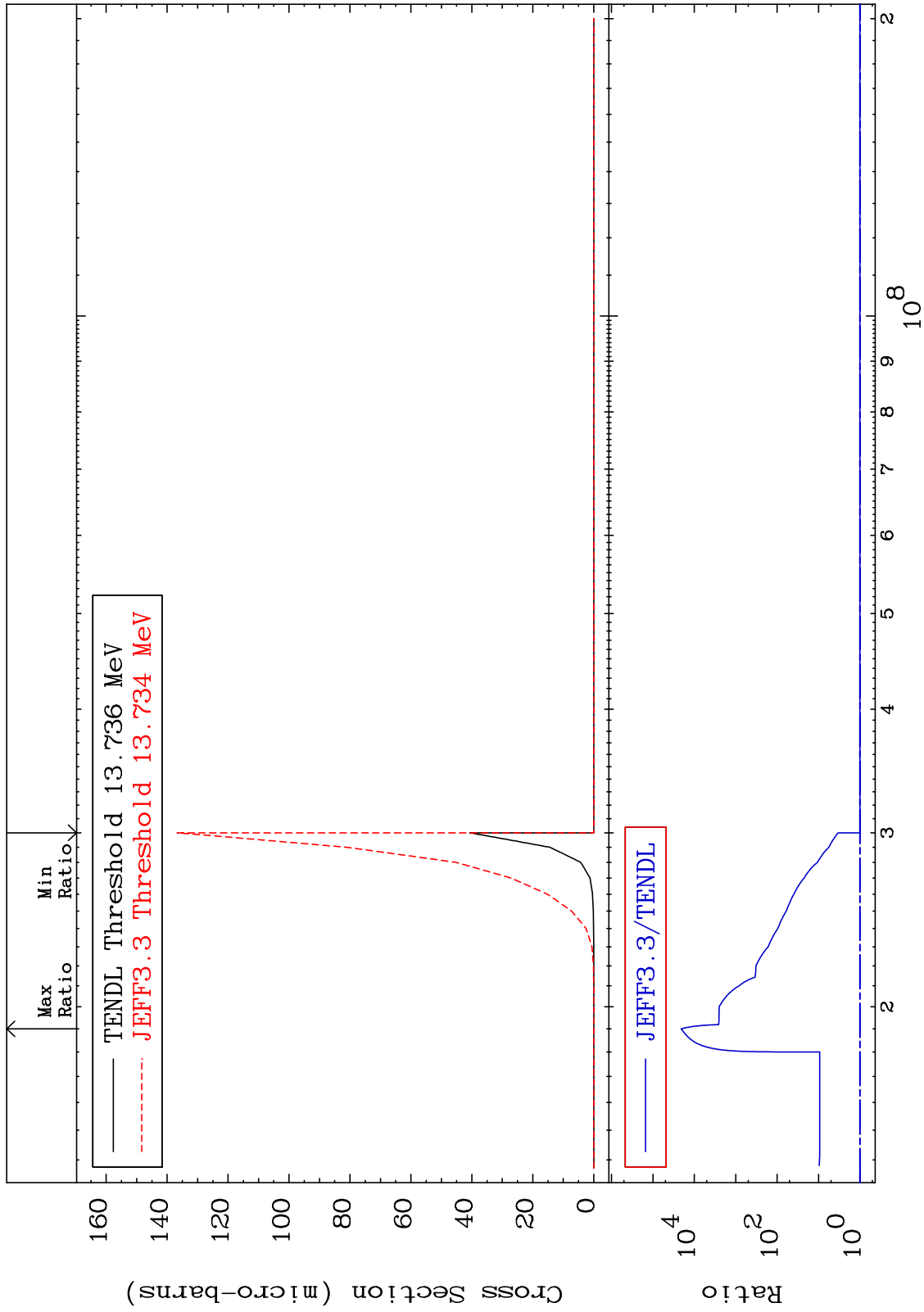
62-Sm-147
-34.89 To 1856. %



MAT 6234

(n,3n) α :60-Nd-141g
Radionuclide Production Cross Section 0.000 To 9999. %

62-Sm-147

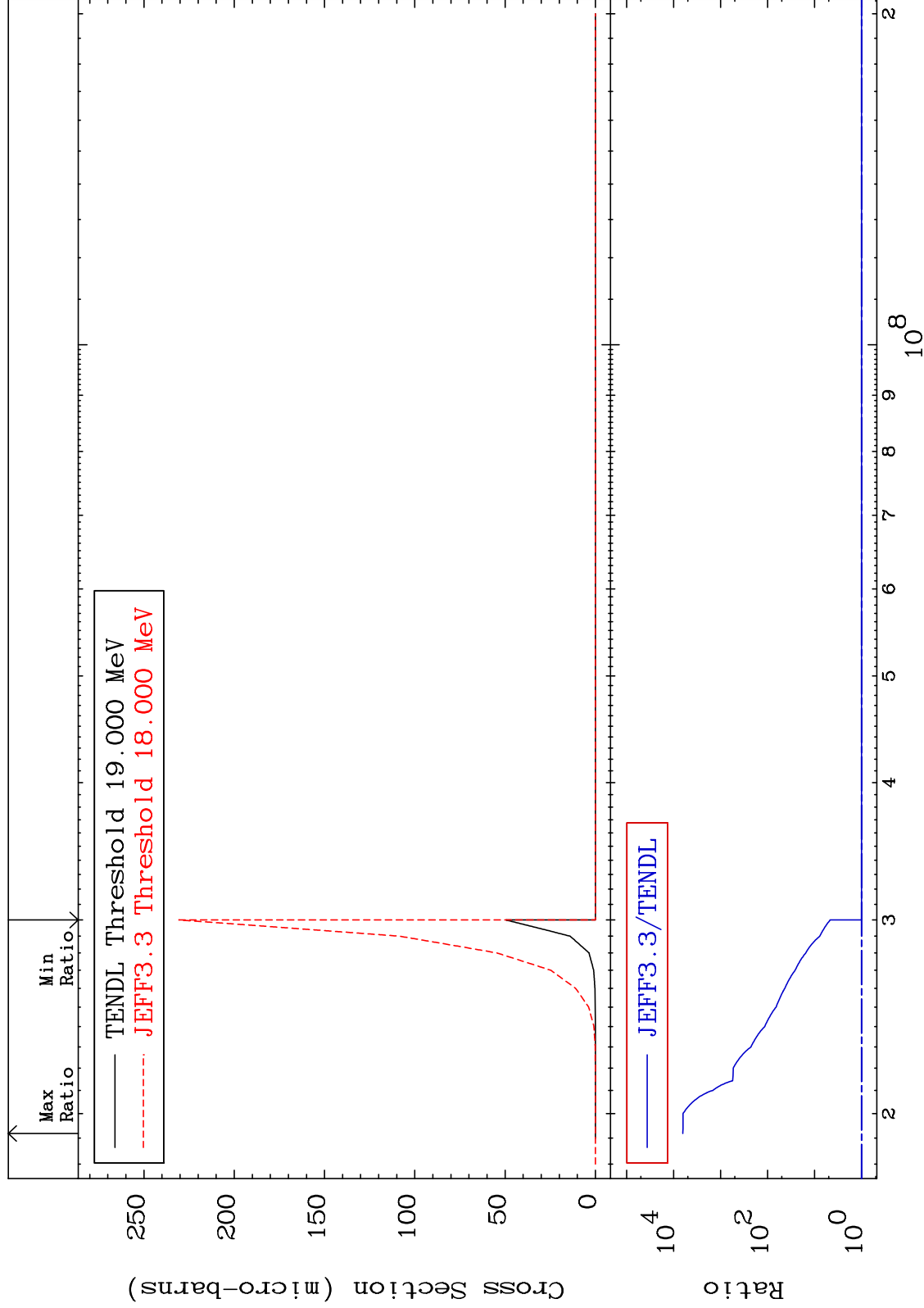


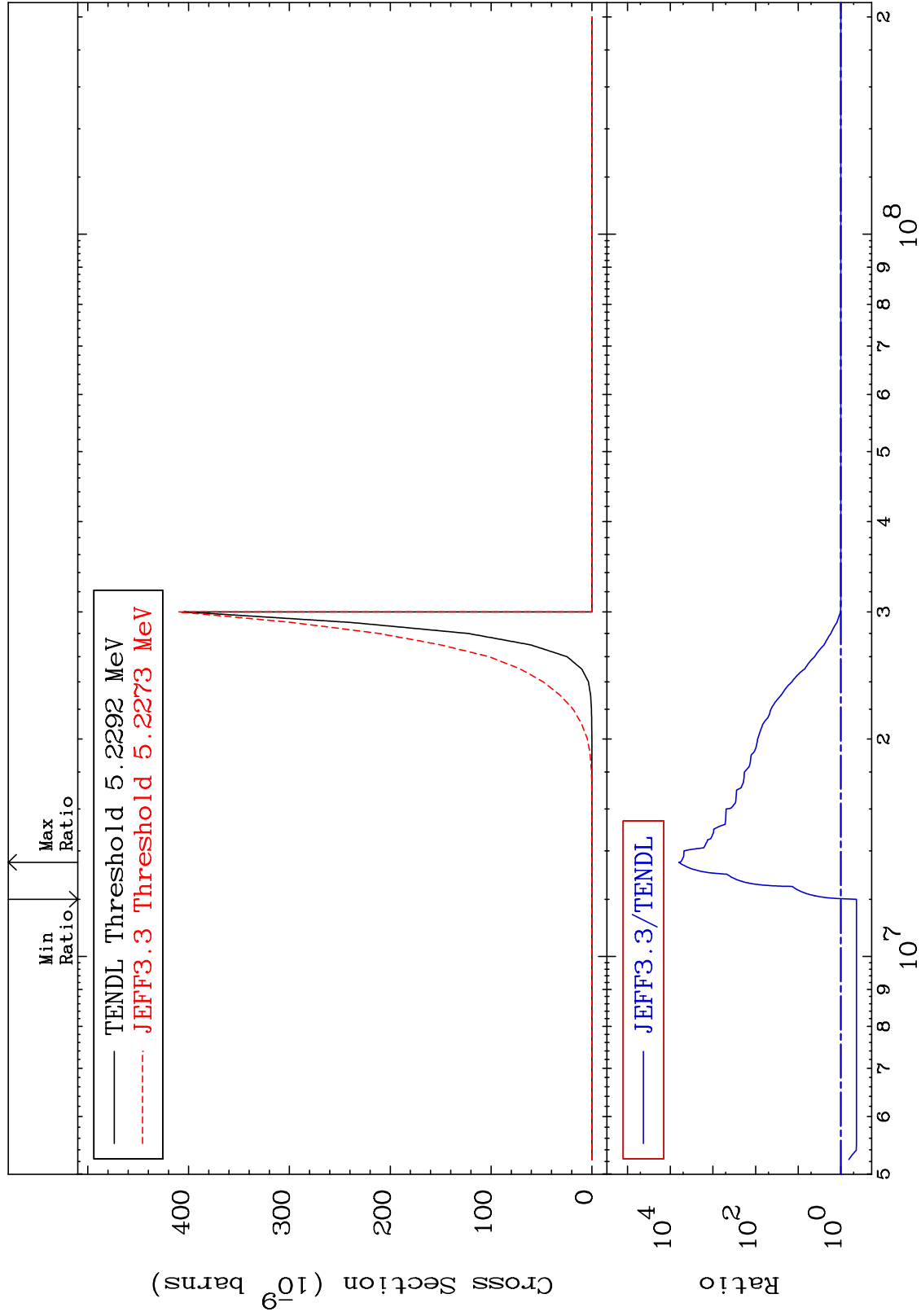
MAT 6234

(n,3n) α : 60-Nd-141m2

62-Sm-147

Radionuclide Production Cross Section 0.000 To 9999. %





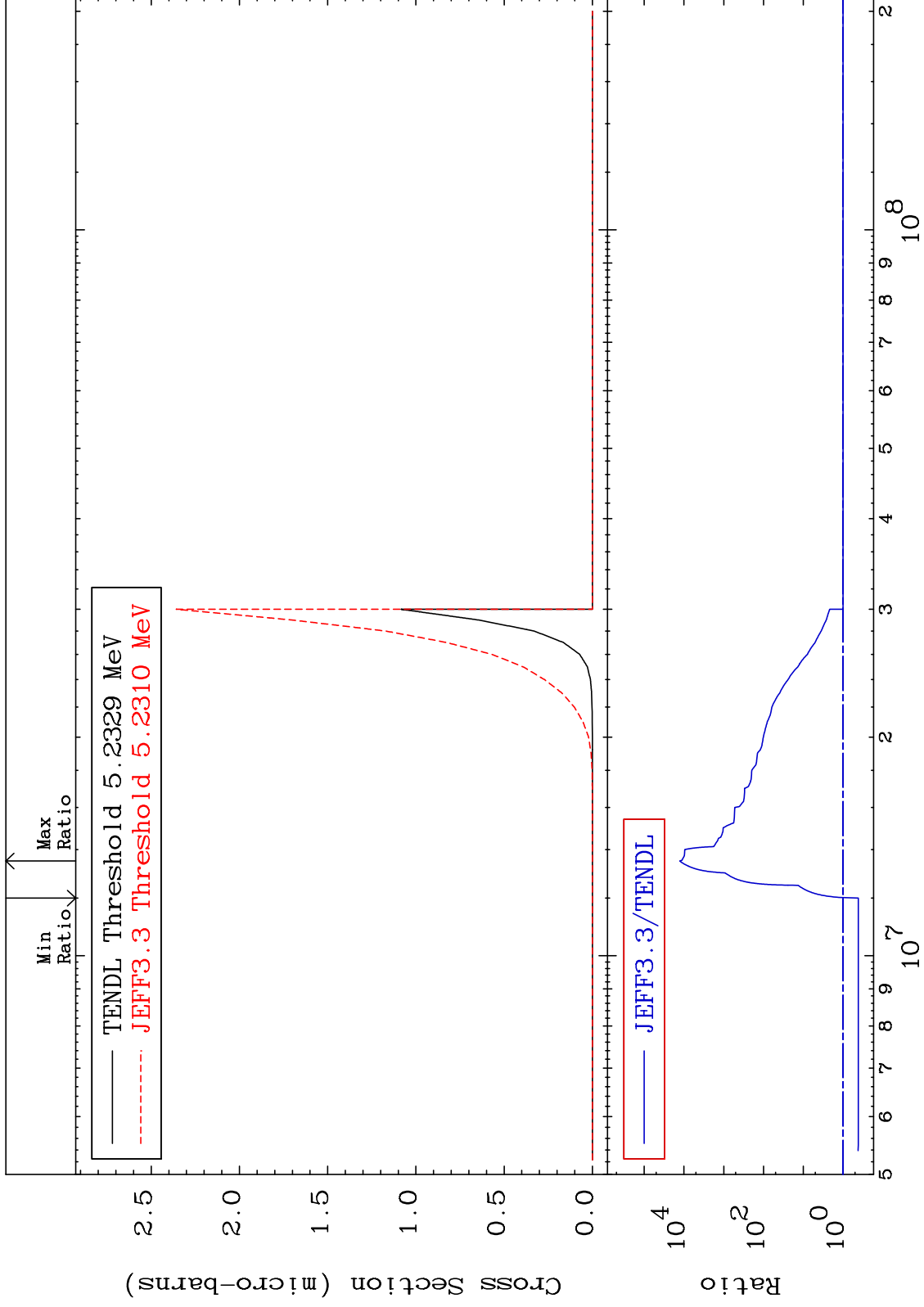
MAT 6234

(n, n') p α :59-Pr-142m1

62-Sm-147

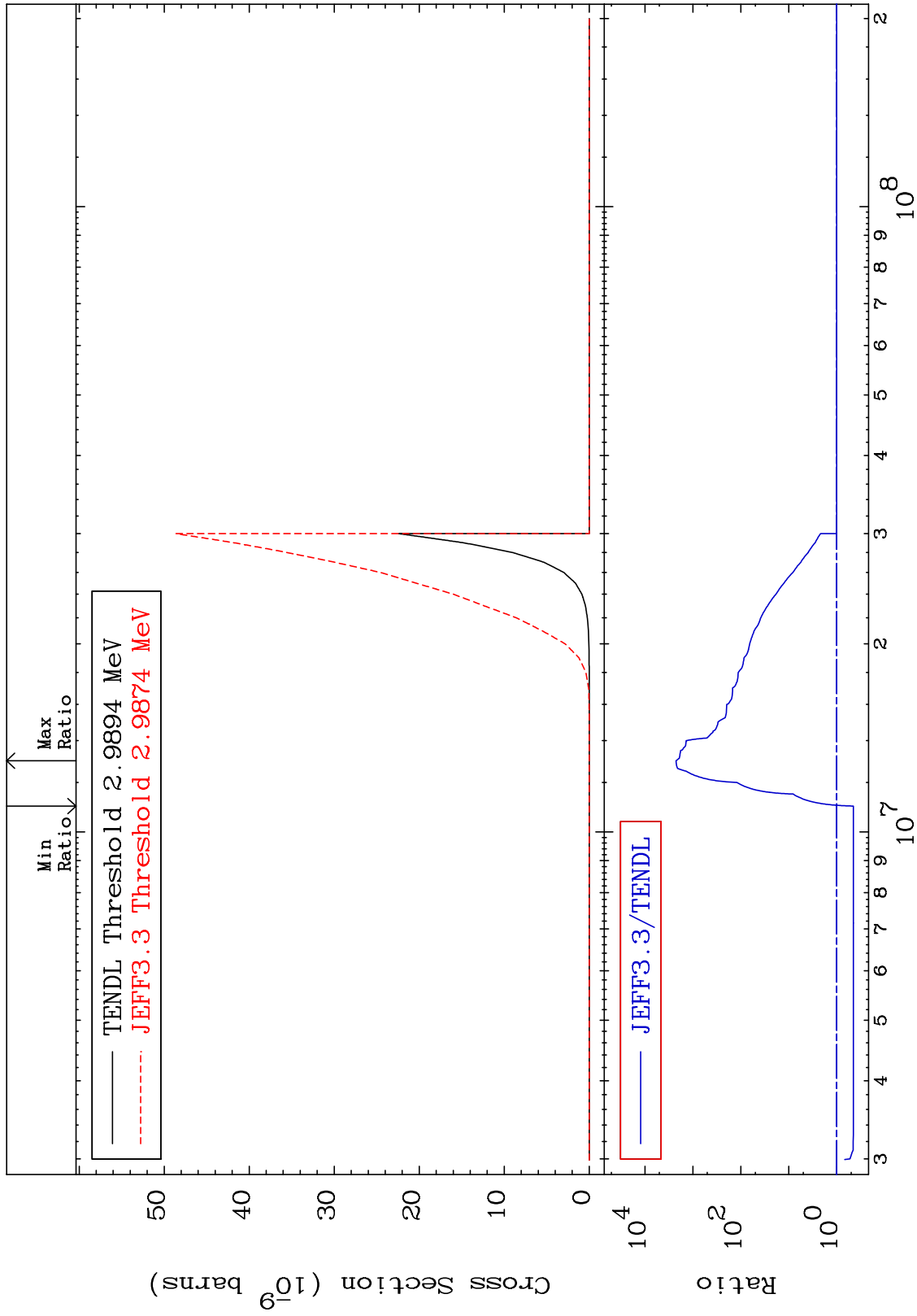
Radionuclide Production Cross Section

-58.75 To 9999. %



MAT 6234

(n, d) α :59-Pr-142g 62-Sm-147
Radionuclide Production Cross Section -55.18 To 9999. %



85

62-Sm-147

MAT 6234

(n,d) α :59-Pr-142m1

62-Sm-147

Radionuclide Production Cross Section

-57.25 To 9999. %

