

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

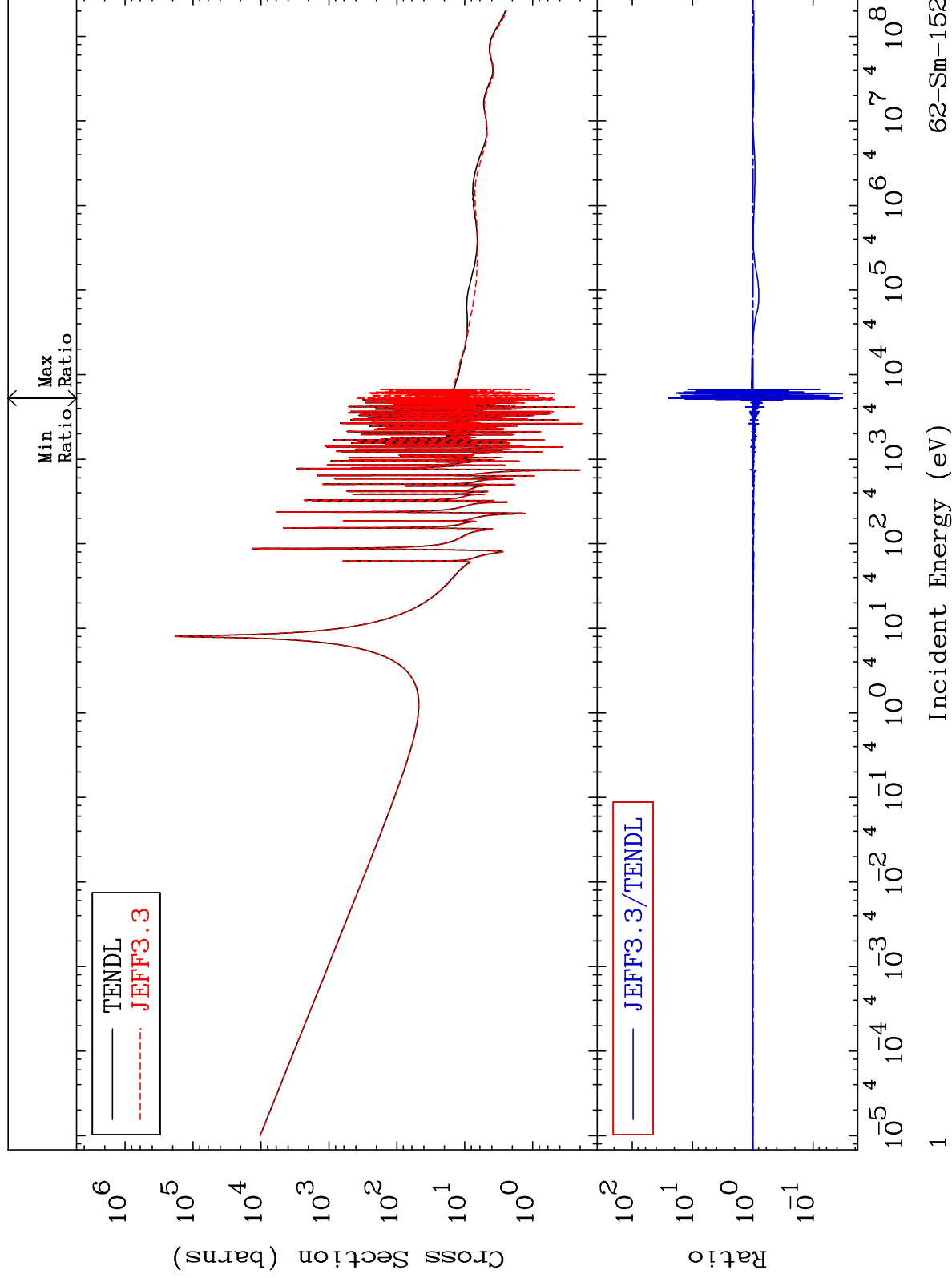
MAT 6249

Total

62-Sm-152

Cross Section

-96.79 To 2449. %



Incident Energy (eV)

62-Sm-152

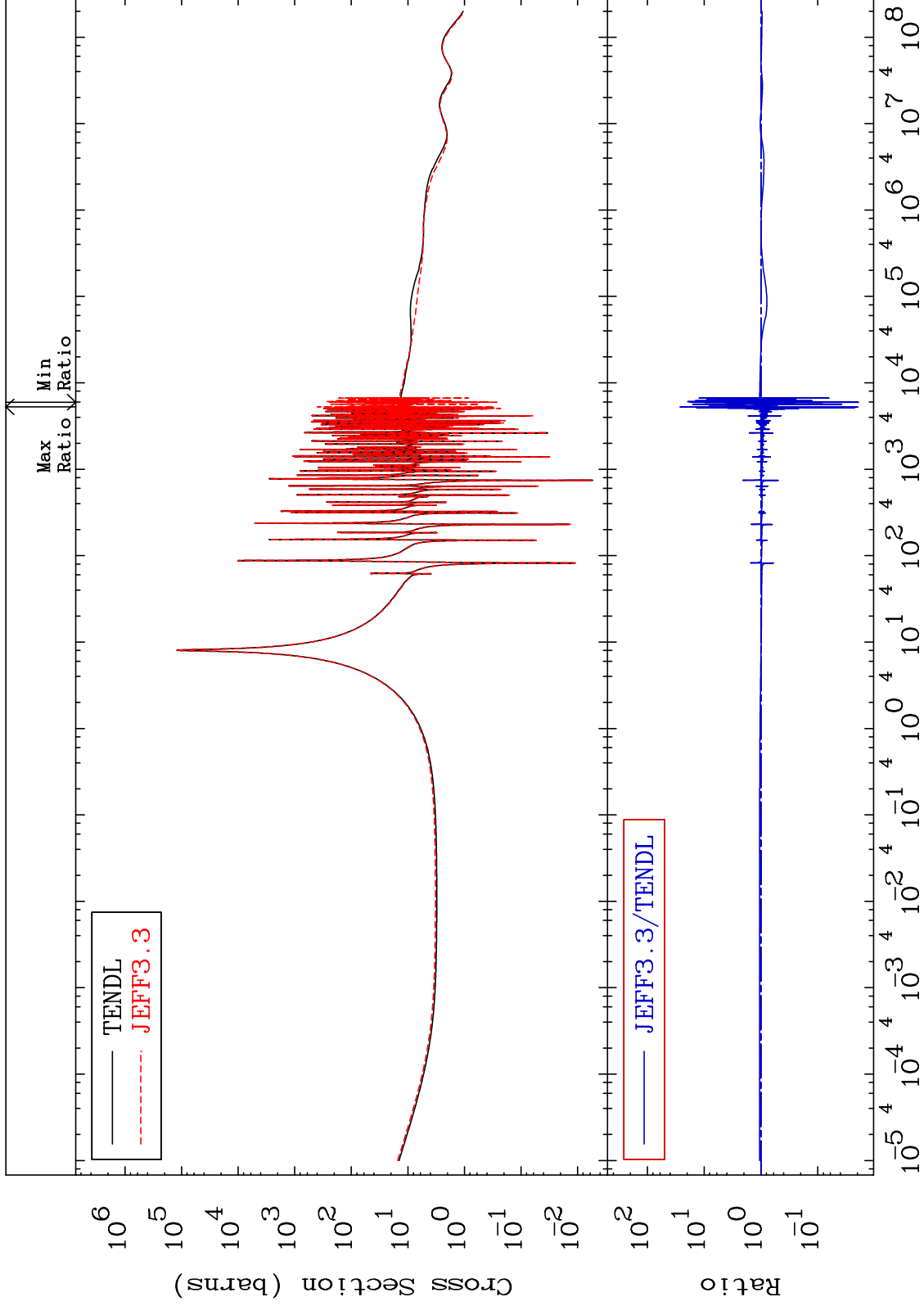
MAT 6249

Elastic

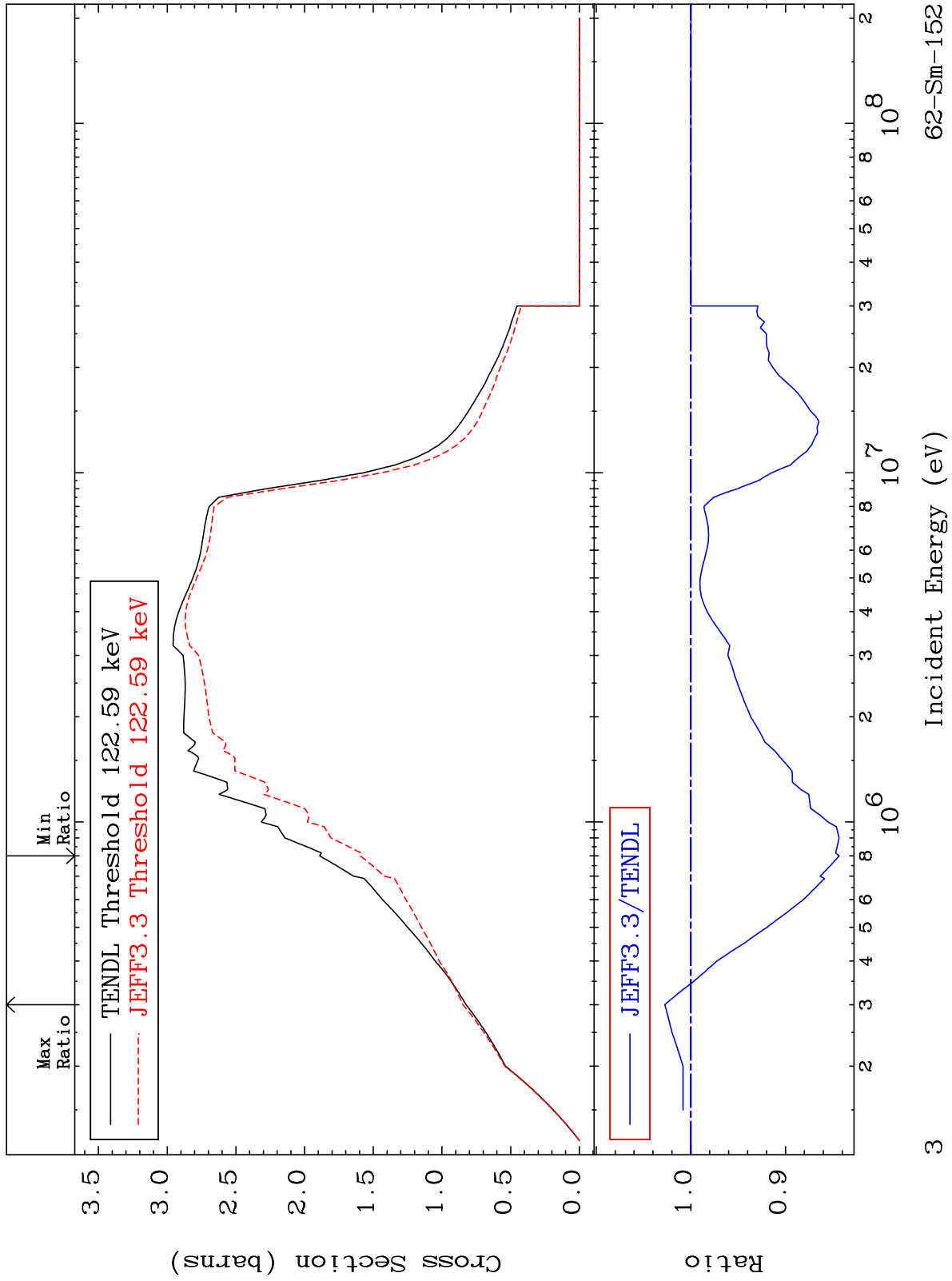
Cross Section

62-Sm-152

-98.07 To 2595. %



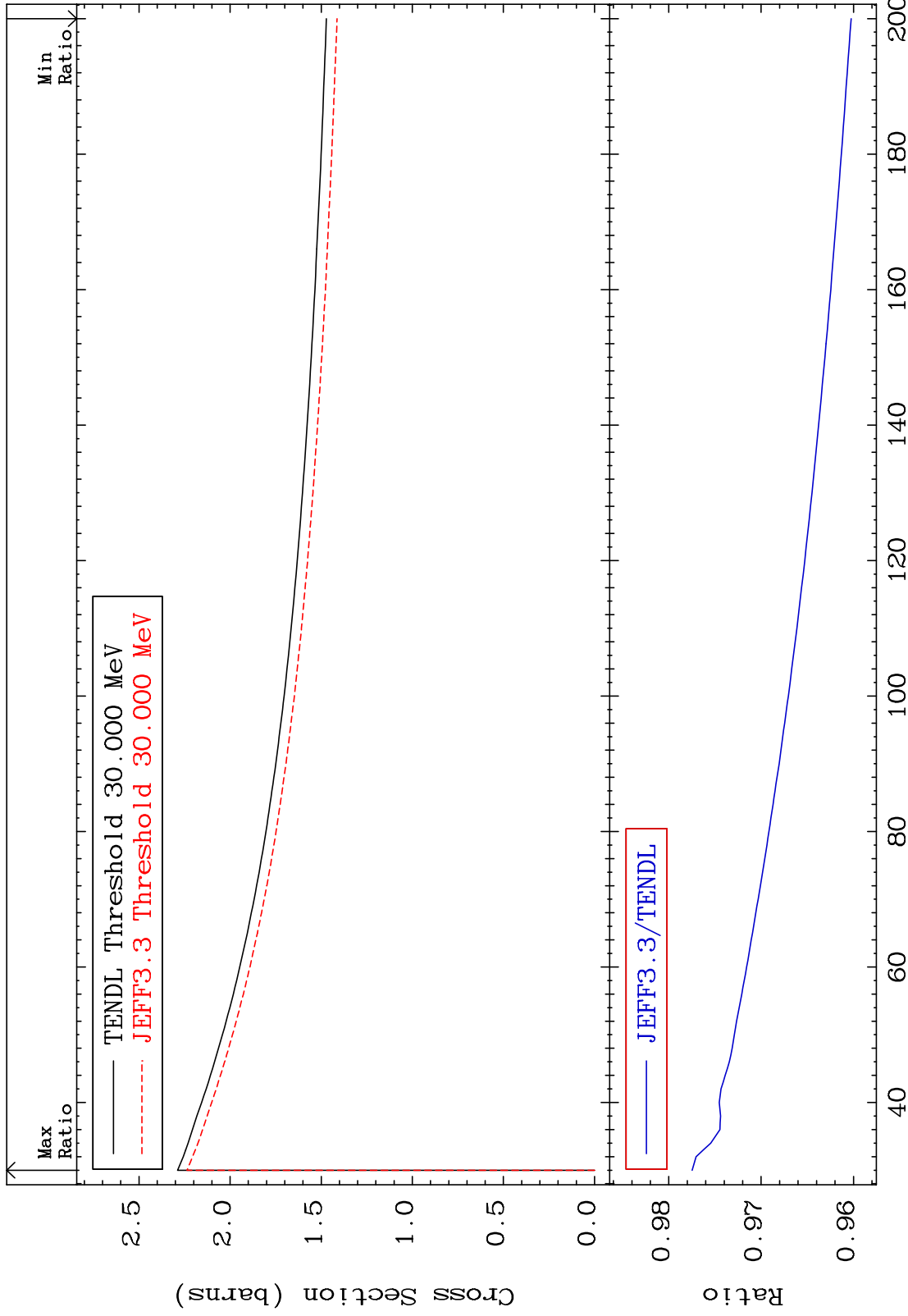
MAT 6249 Inelastic Cross Section 62-Sm-152 -15.67 To 2.757 %



MAT 6249

(n, remainder)
Cross Section

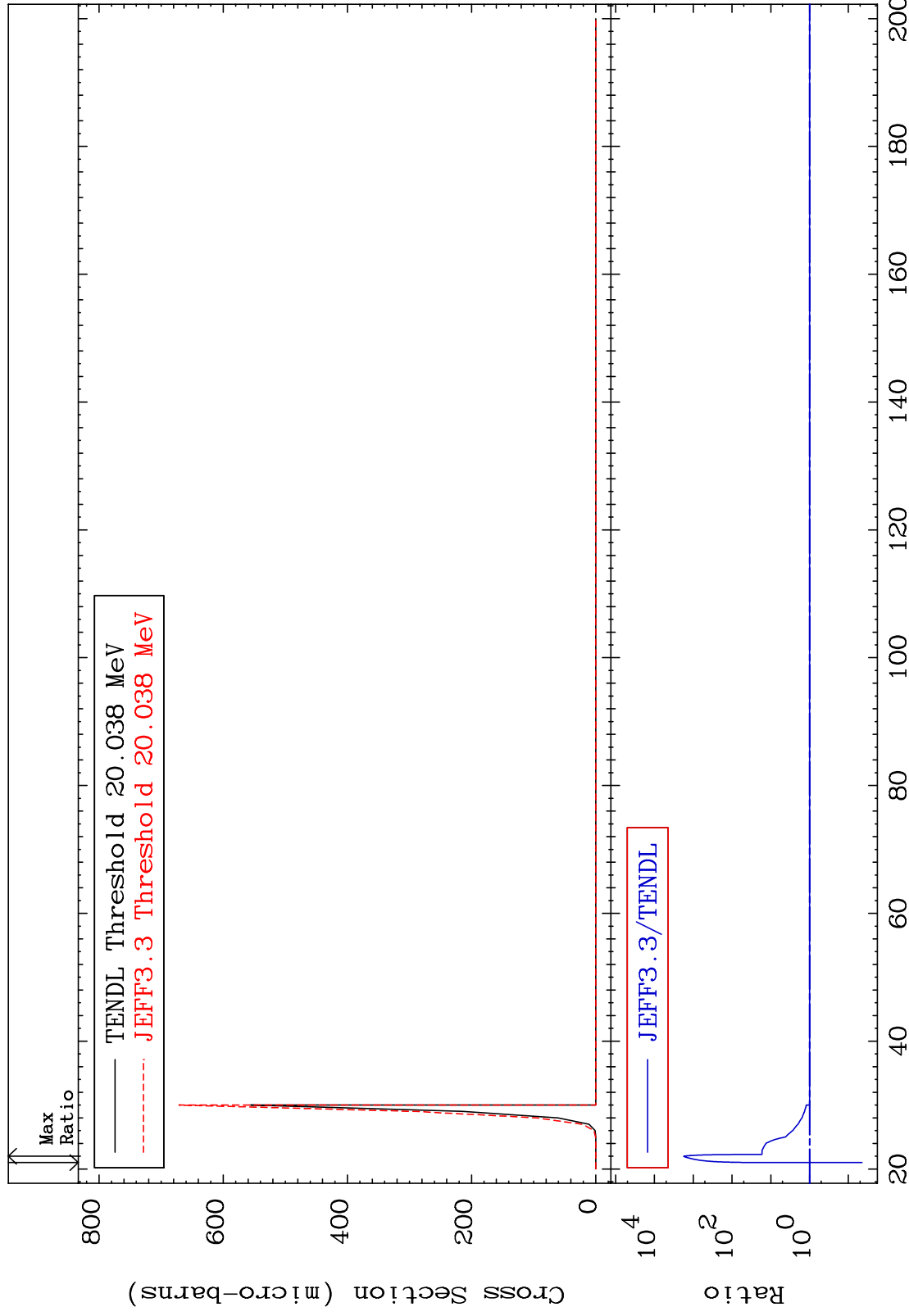
62-Sm-152
-3.975 To -2.252%



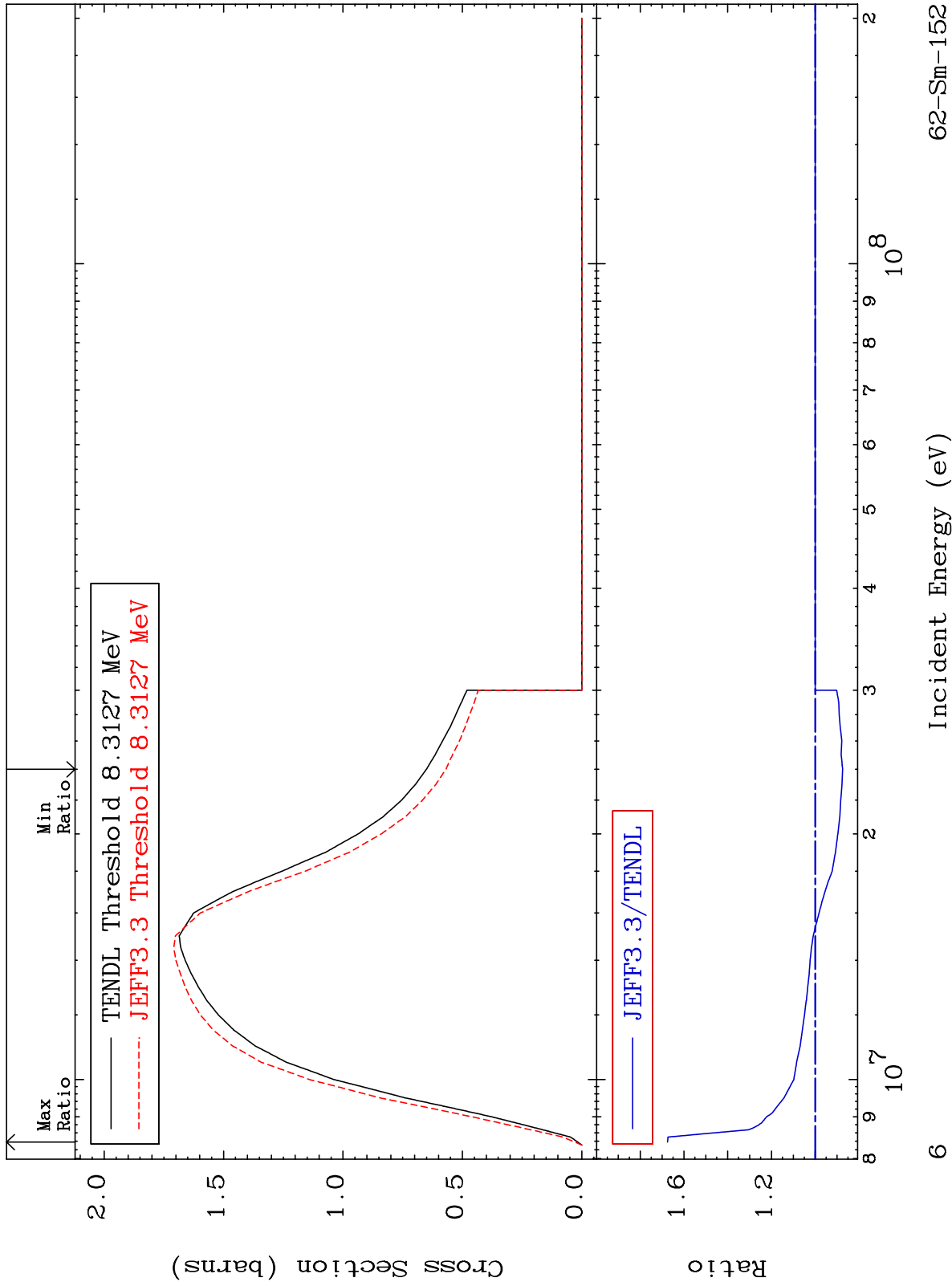
MAT 6249

(n,2n) d
Cross Section

62-Sm-152
-95.58 To 9999. %



MAT 6249 (n,2n) Cross Section 62-Sm-152 -12.53 To 67.50 %



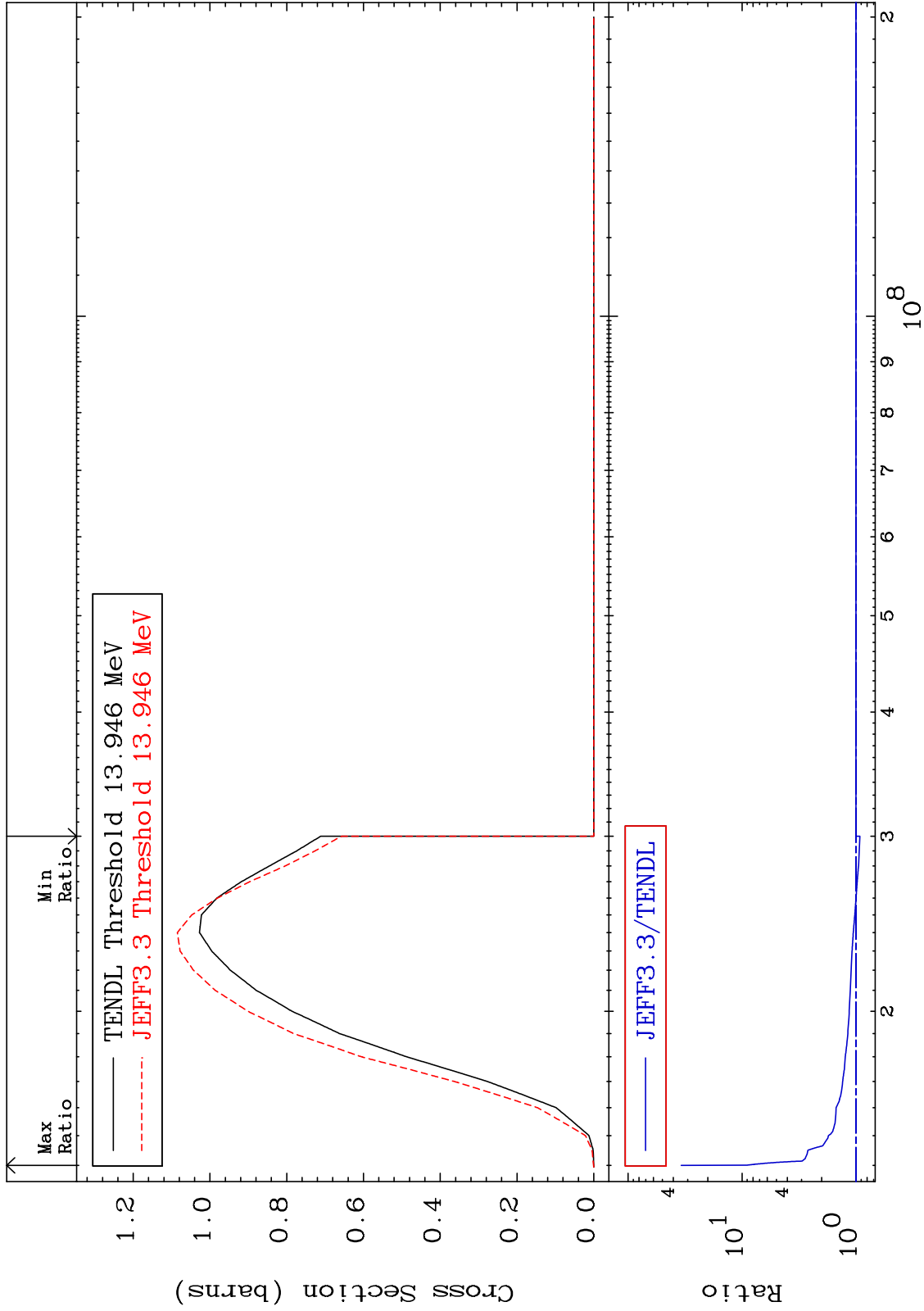
MAT 6249

(n, 3n)

62-Sm-152

Cross Section

-7.648 To 3315. %



62-Sm-152

Incident Energy (eV)

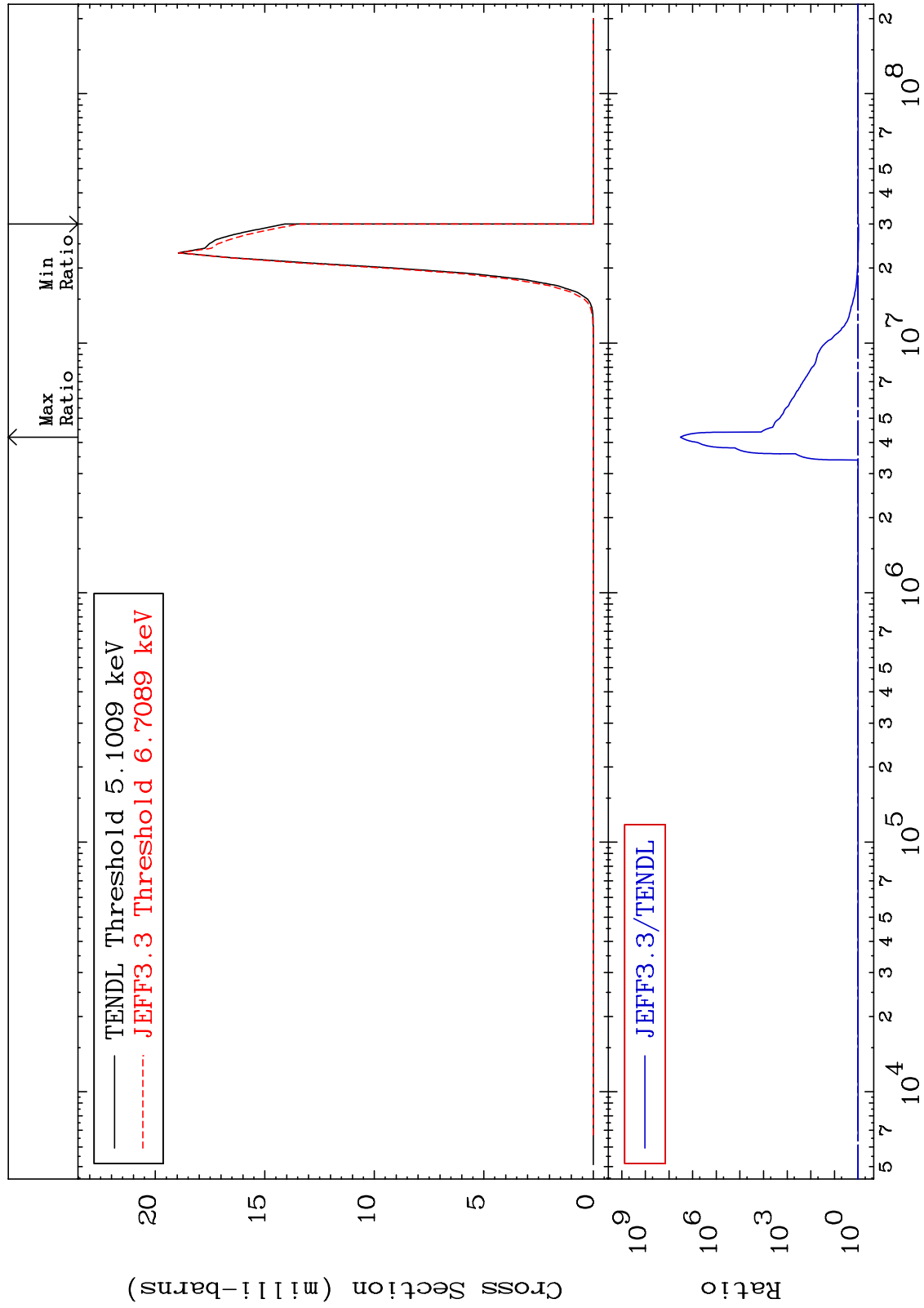
MAT 6249

(n,n') α

62-Sm-152

Cross Section

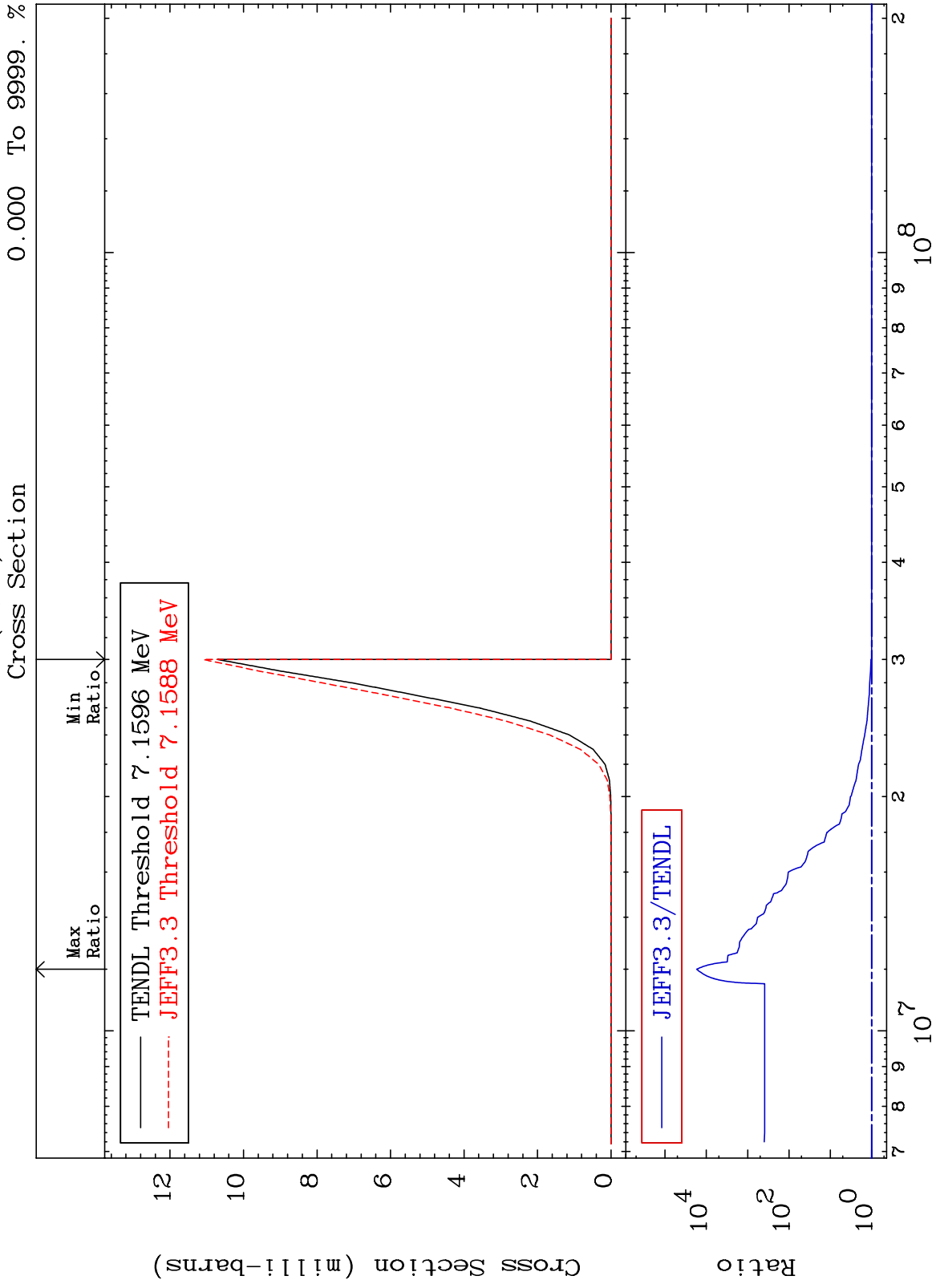
-4.469 To 9999. %



MAT 6249

(n,2n) α

62-Sm-152
To 9999. %
0.000



9

Incident Energy (eV)

62-Sm-152

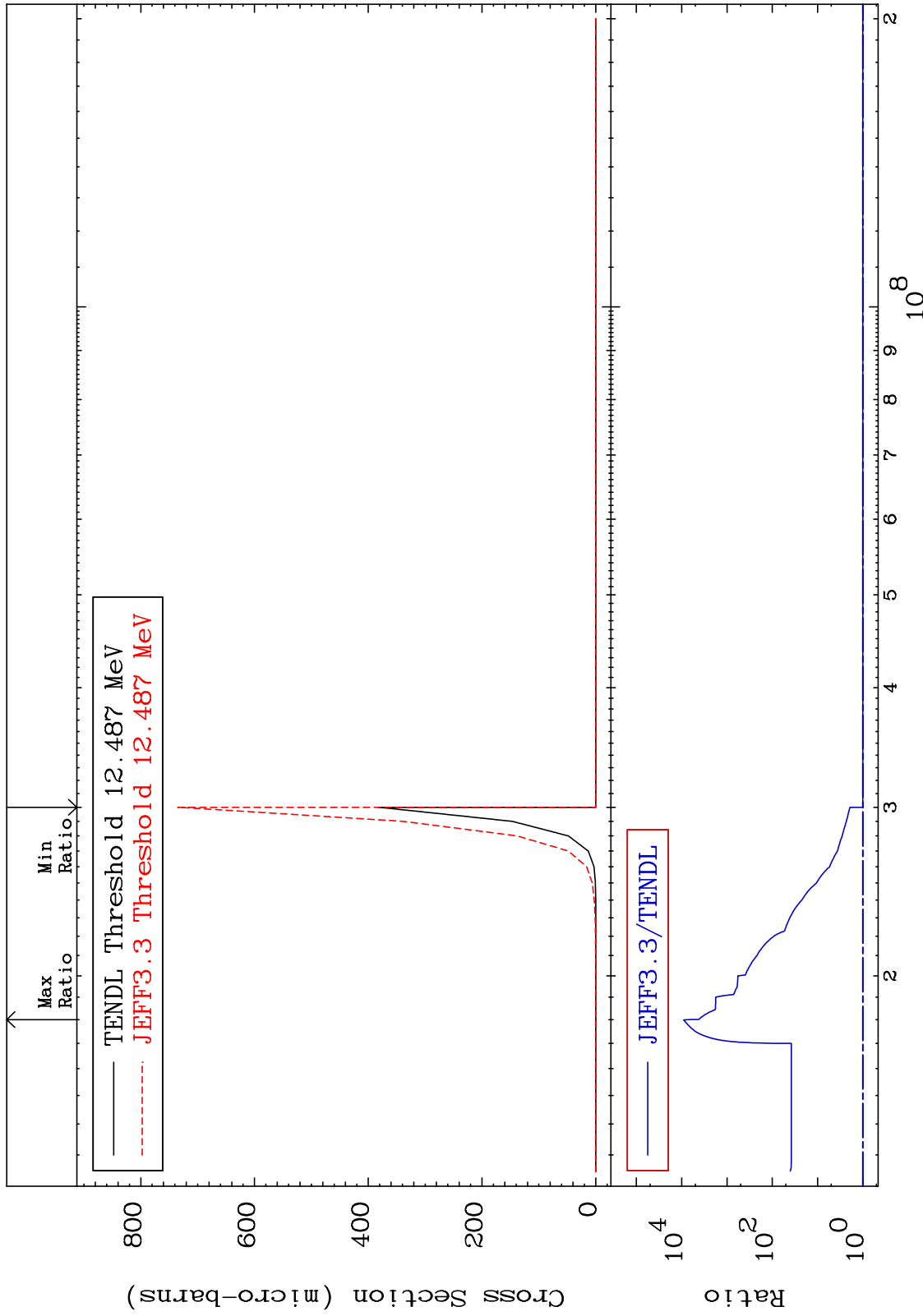
MAT 6249

(n,3n) α

62-Sm-152

Cross Section

0.000 To 9999. %



10

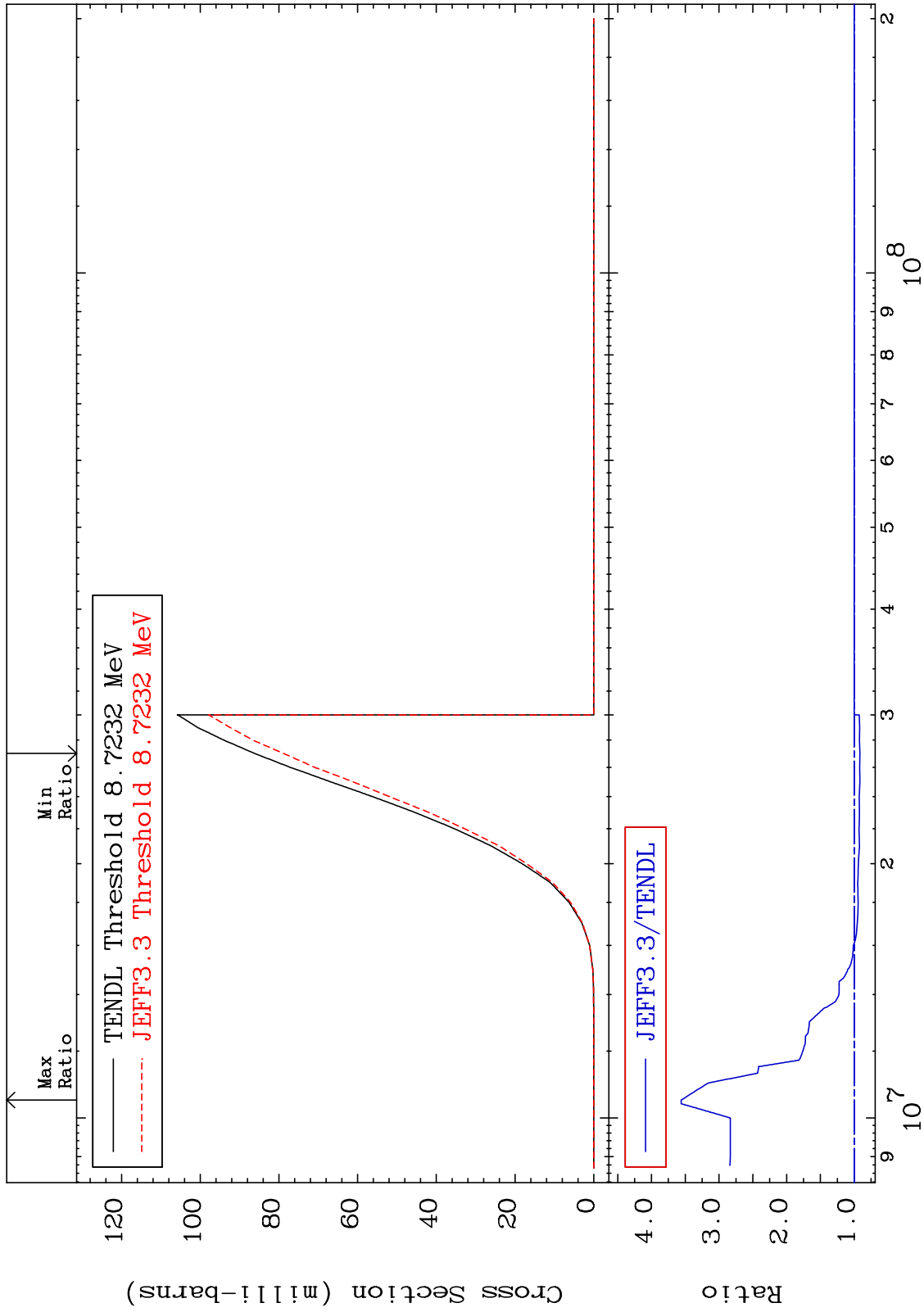
Incident Energy (eV)

62-Sm-152

MAT 6249

(n,n') p
Cross Section

62-Sm-152
-8.530 To 256.0 %



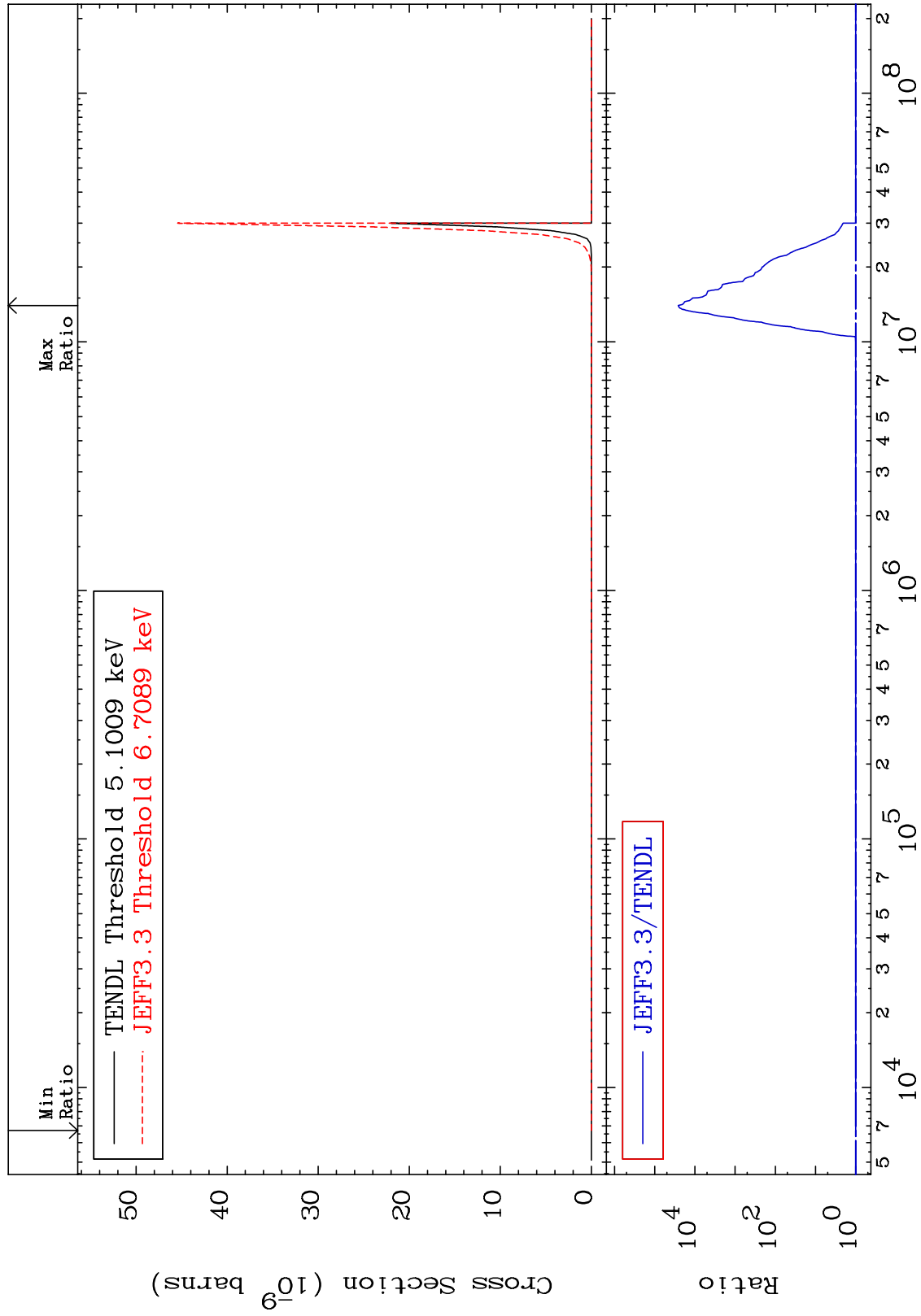
MAT 6249

(n,n') 2 α

62-Sm-152

Cross Section

0.000 To 9999. %



12

Incident Energy (eV)

62-Sm-152

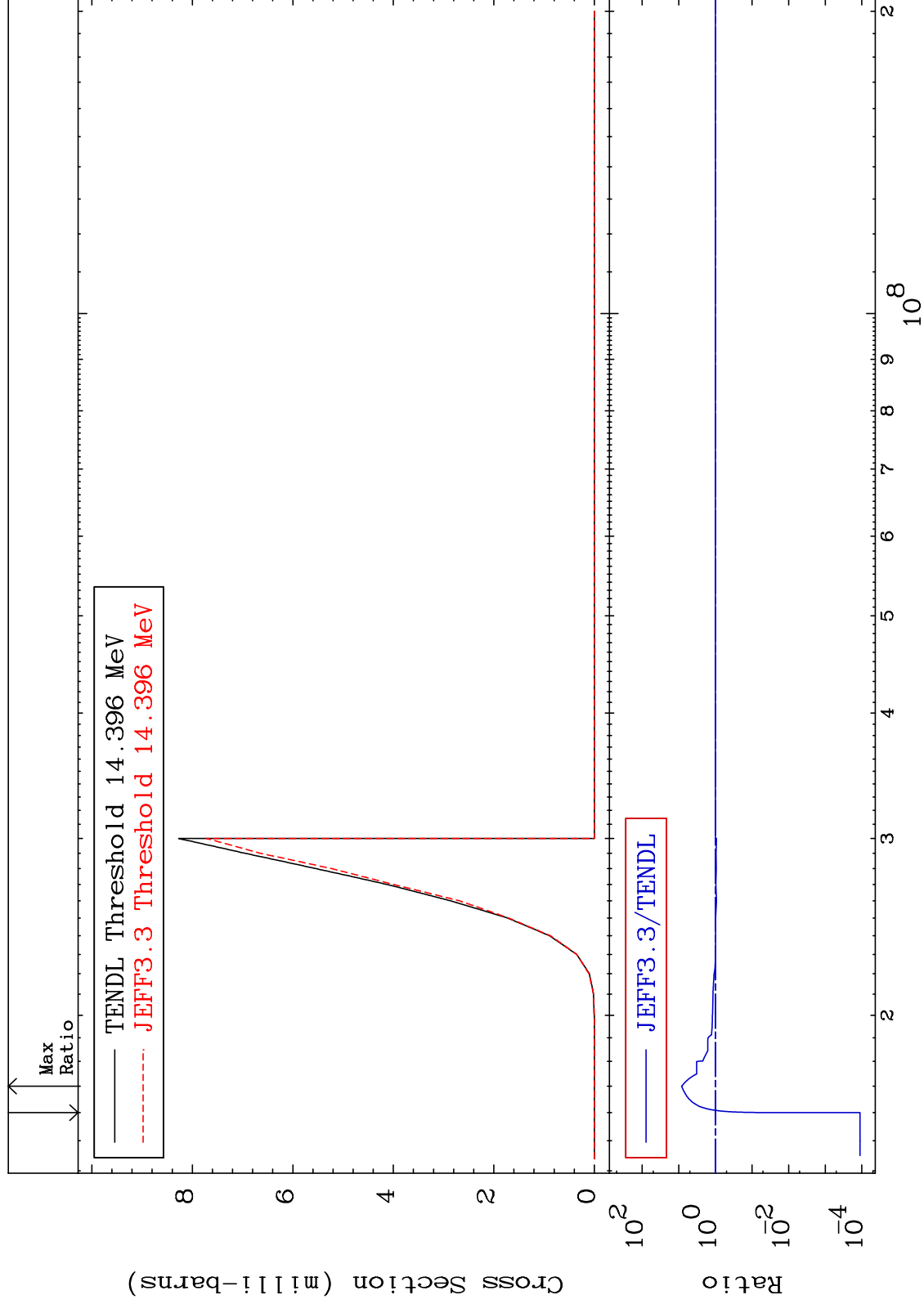
MAT 6249

(n, n') d

62-Sm-152

Cross Section

-99.99 To 735.0 %



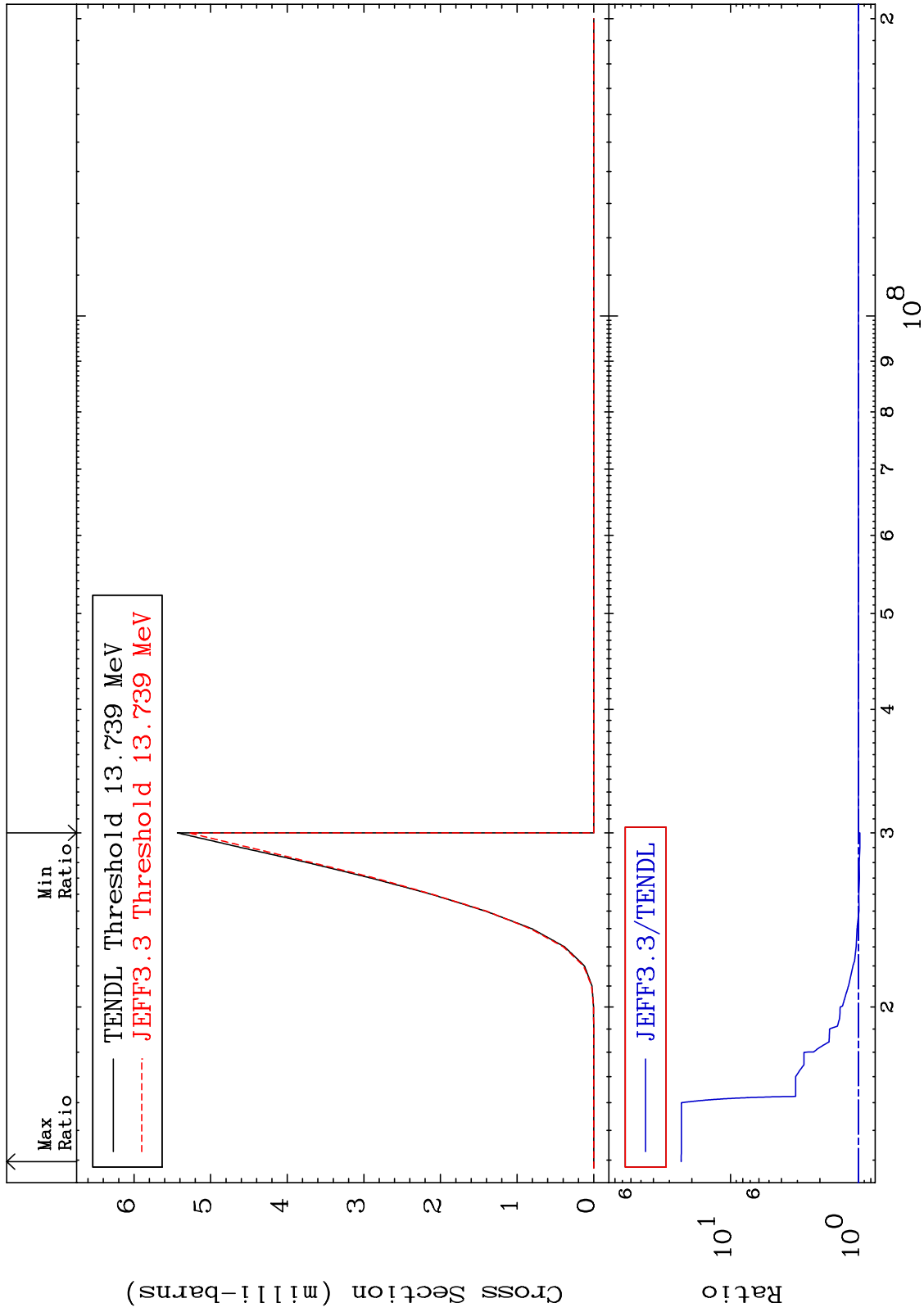
MAT 6249

(n, n') t

62-Sm-152

Cross Section

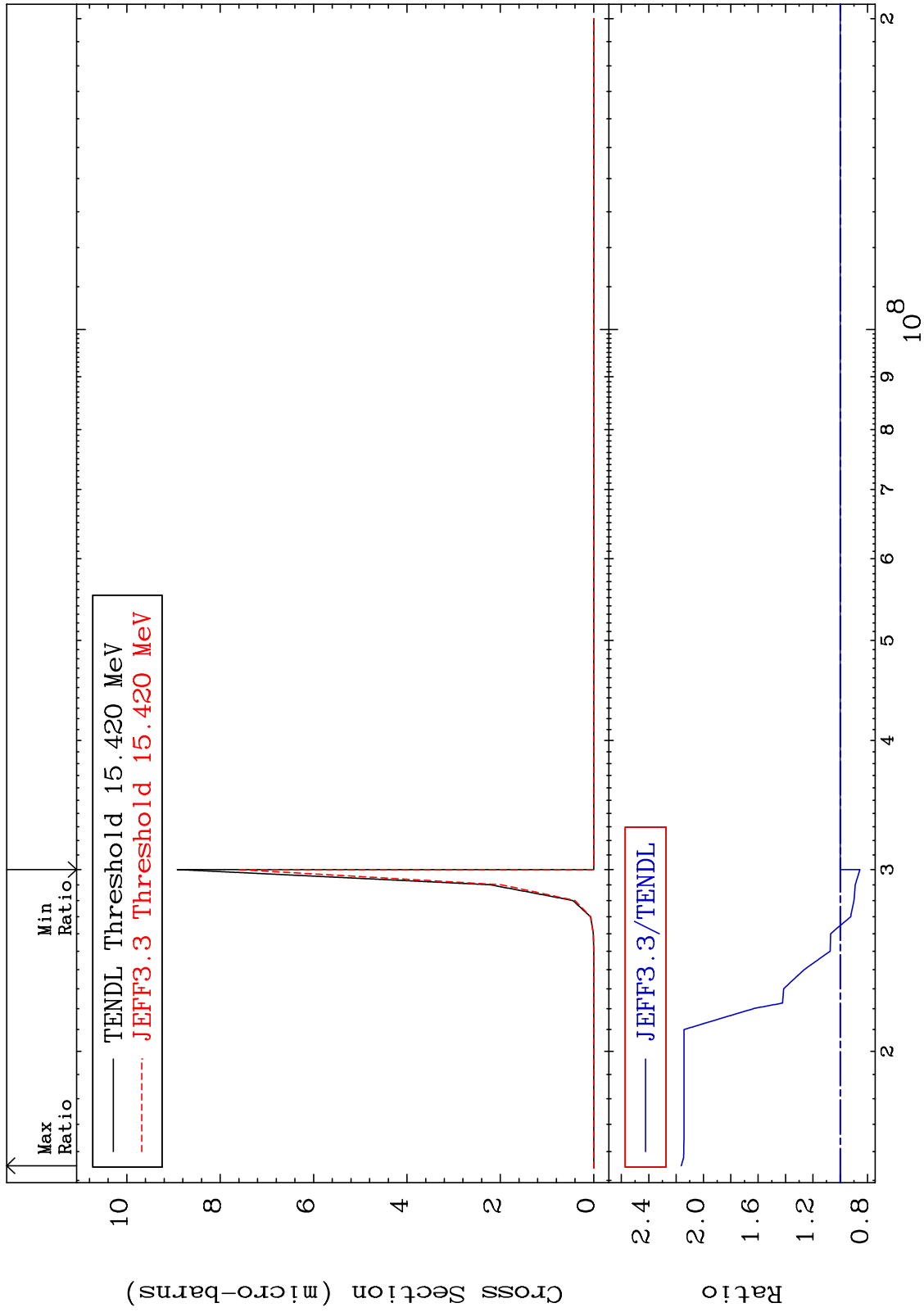
-2.708 To 2326. %



MAT 6249

(n, n') He-3
Cross Section

62-Sm-152
-14.40 To 116.3 %



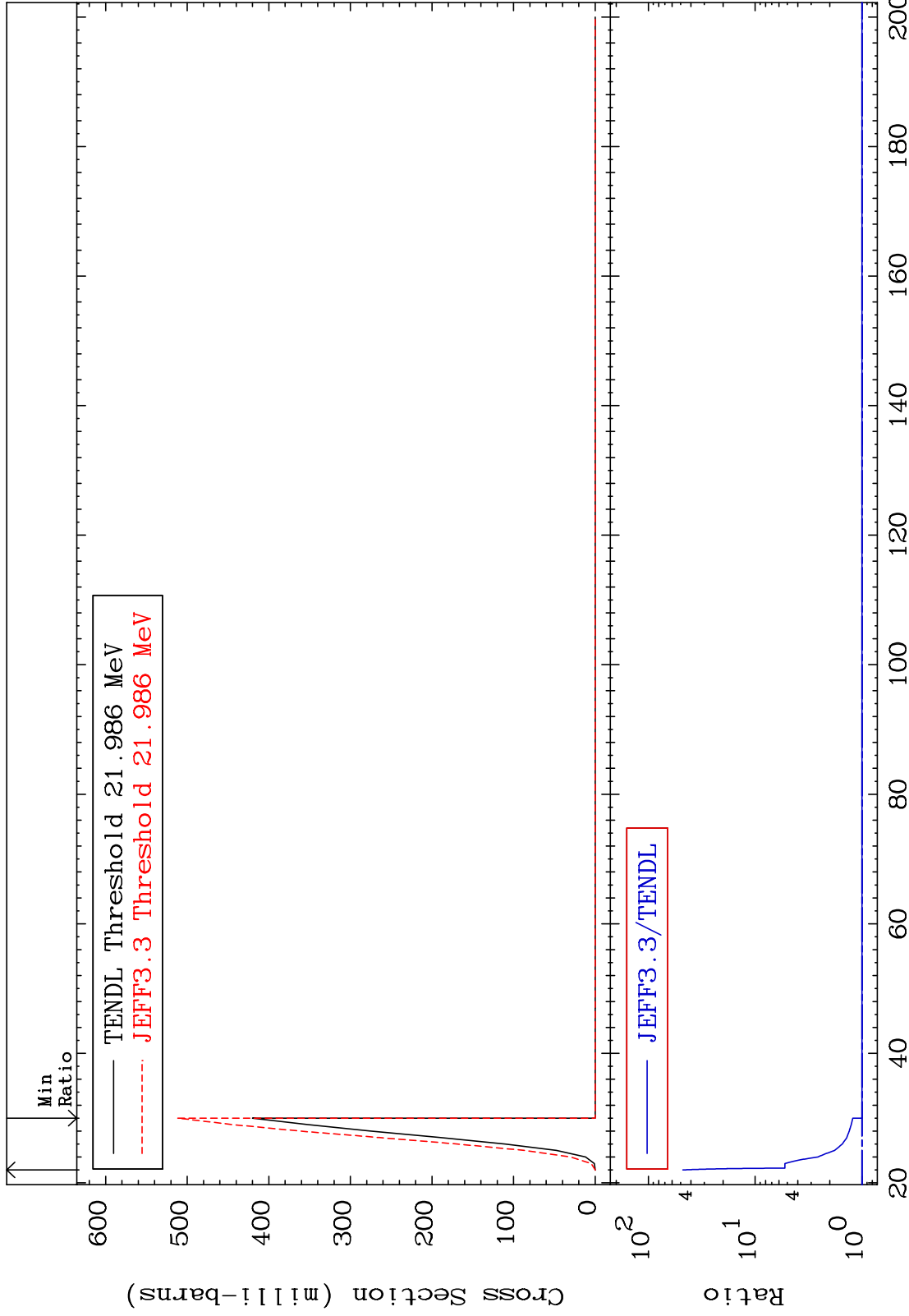
MAT 6249

(n, 4n)

62-Sm-152

Cross Section

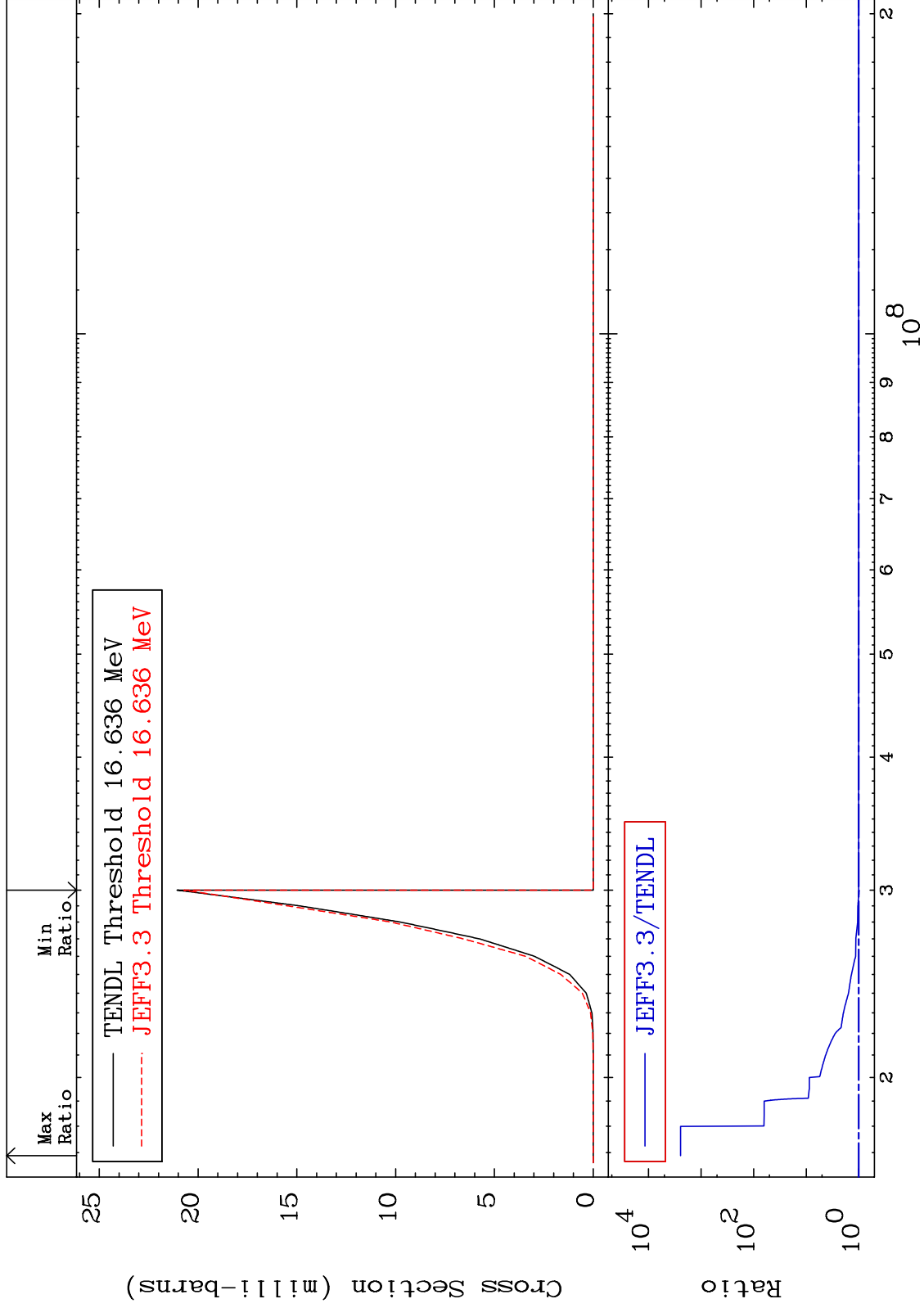
0.000 To 4653. %



MAT 6249

(n,2n) p
Cross Section

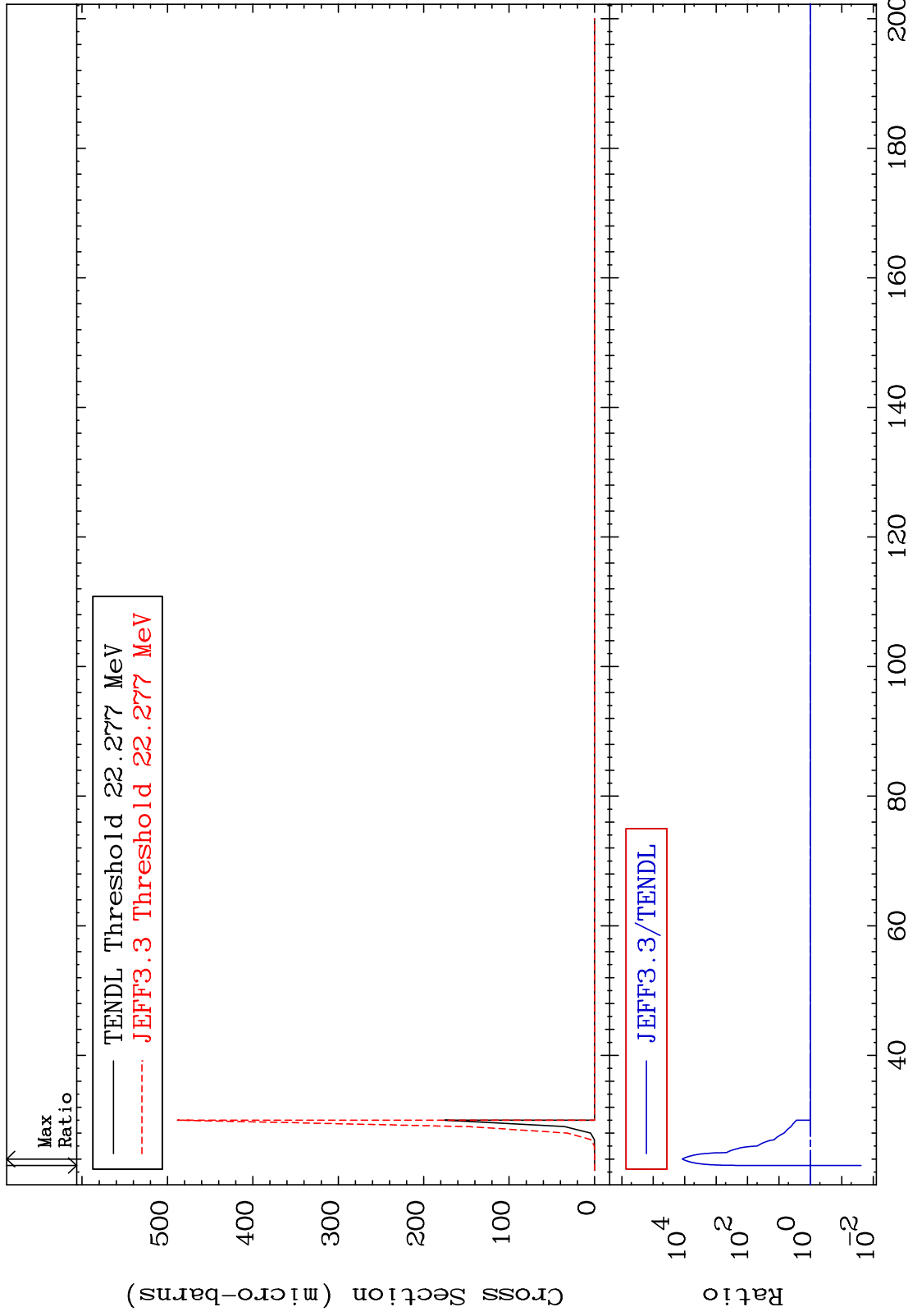
62-Sm-152
-1.636 To 9999. %



MAT 6249

(n,3n) p
Cross Section

62-Sm-152
-97.56 To 9999. %



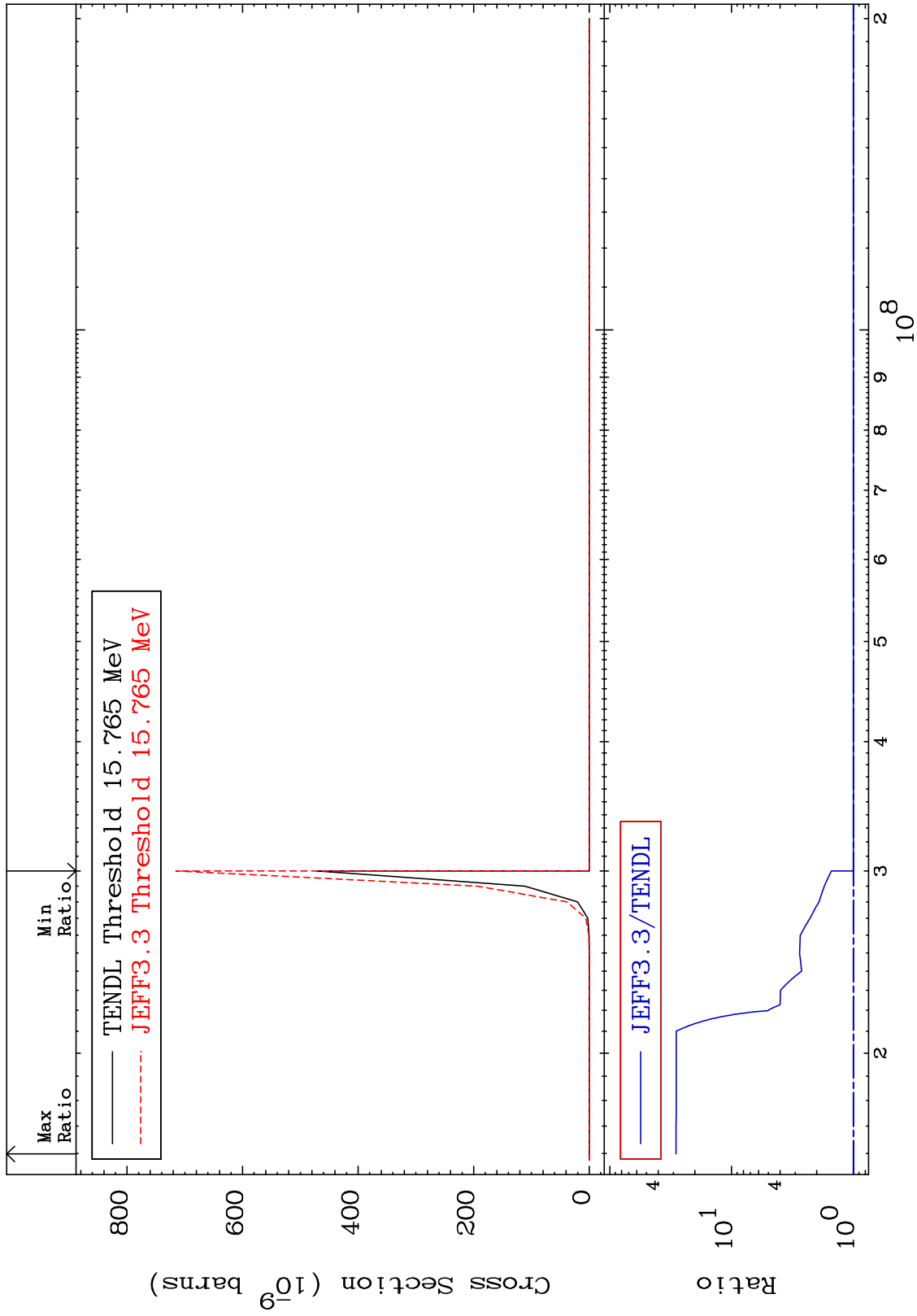
MAT 6249

(n,2n) p

62-Sm-152

Cross Section

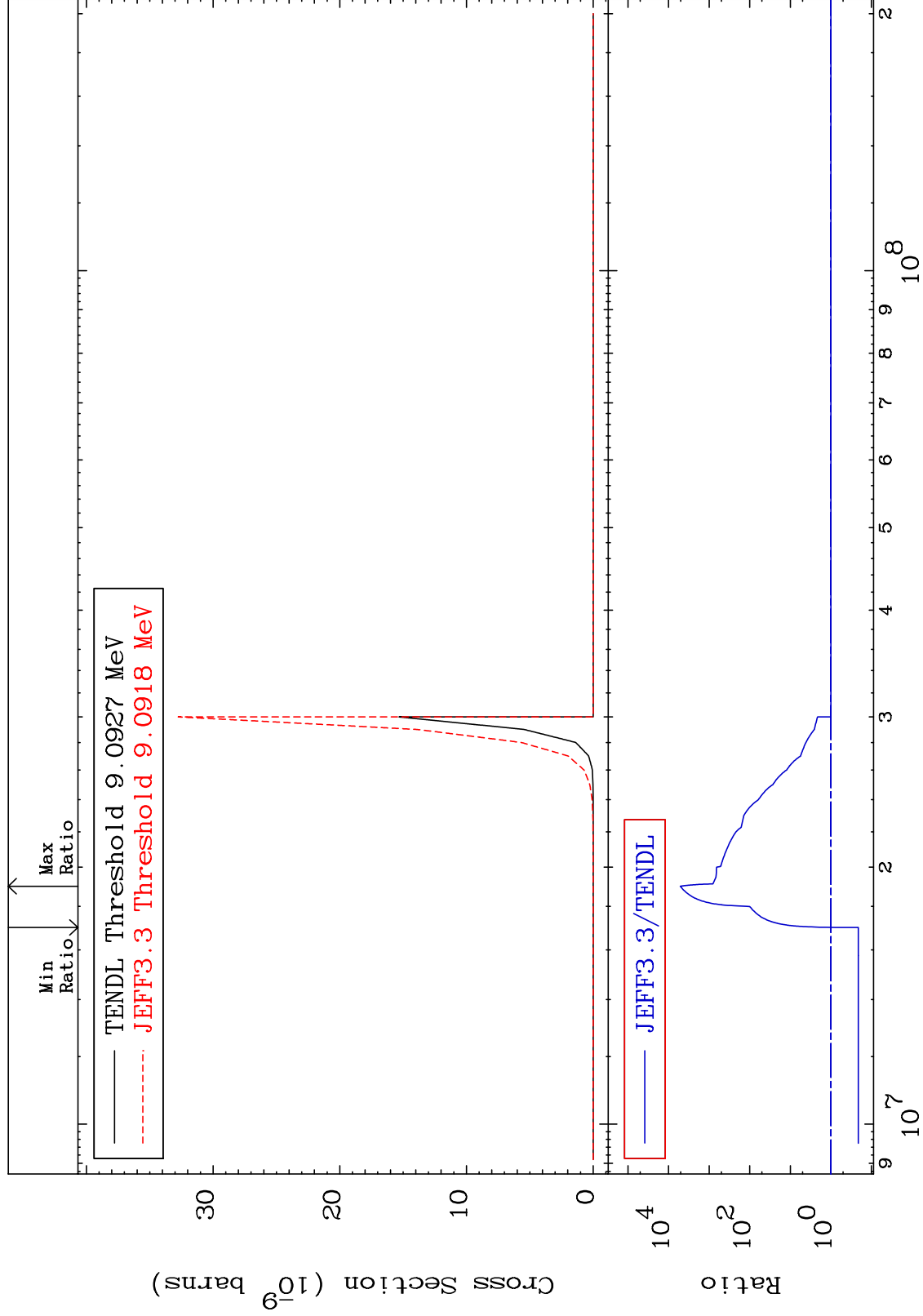
0.000 To 2758. %



MAT 6249

(n,n') p α
Cross Section

62-Sm-152
-78.96 To 9999. %

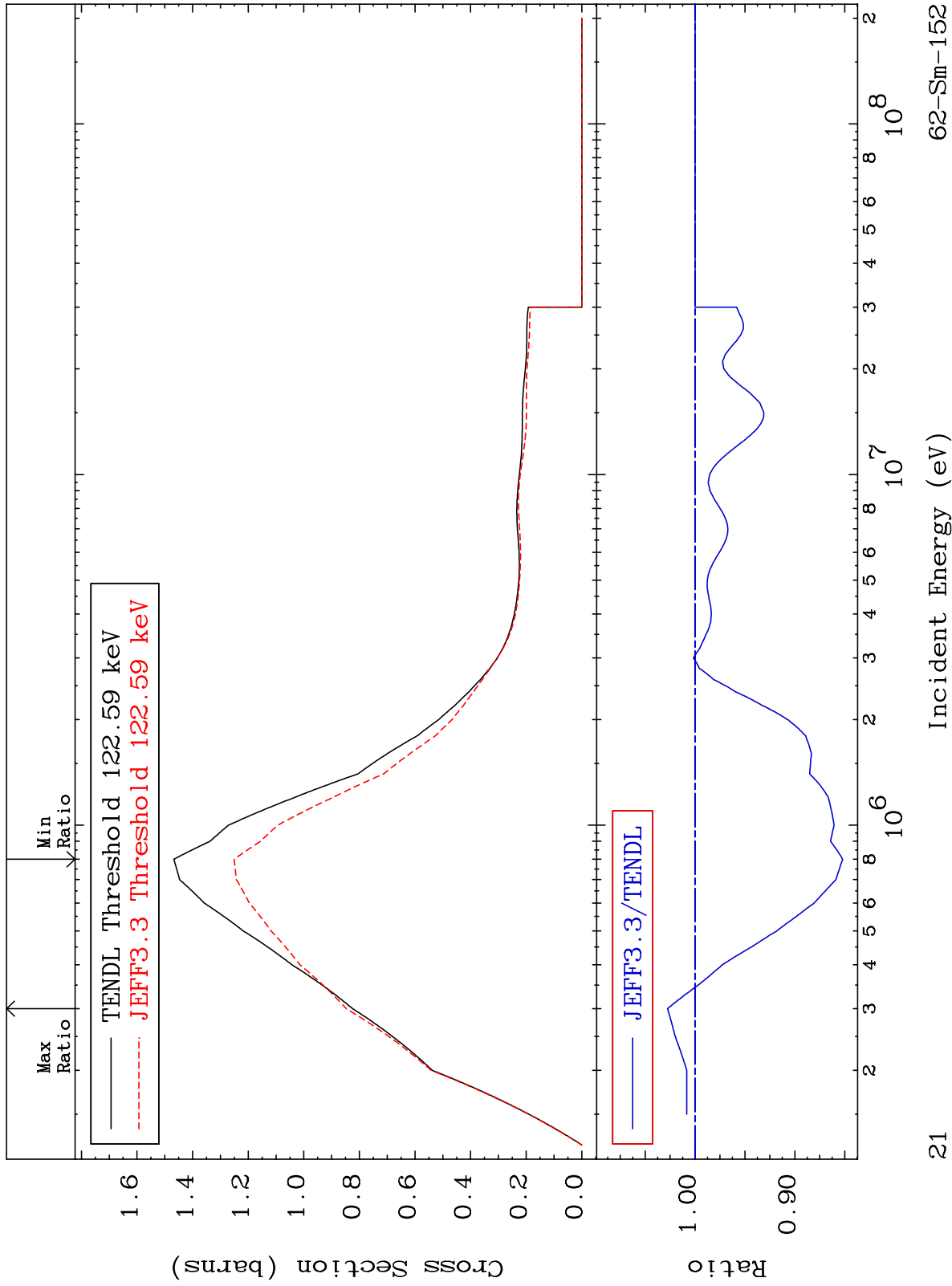


62-Sm-152

Incident Energy (eV)

20

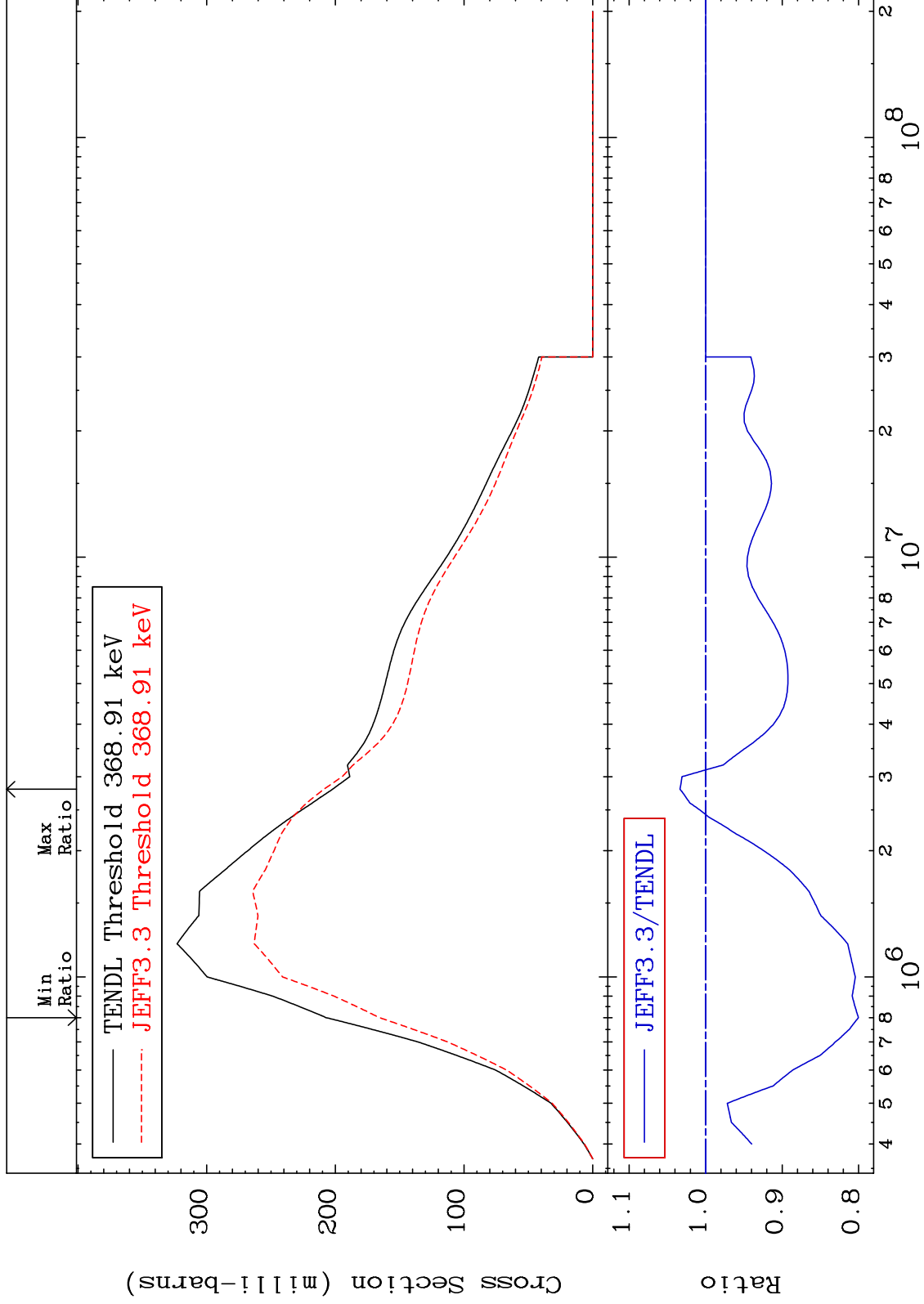
MAT 6249 MT= 51 (n,n') Level 62-Sm-152
 Cross Section -14.80 To 2.757 %



MAT 6249

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

62-Sm-152
-19.96 To 3.347 %



22

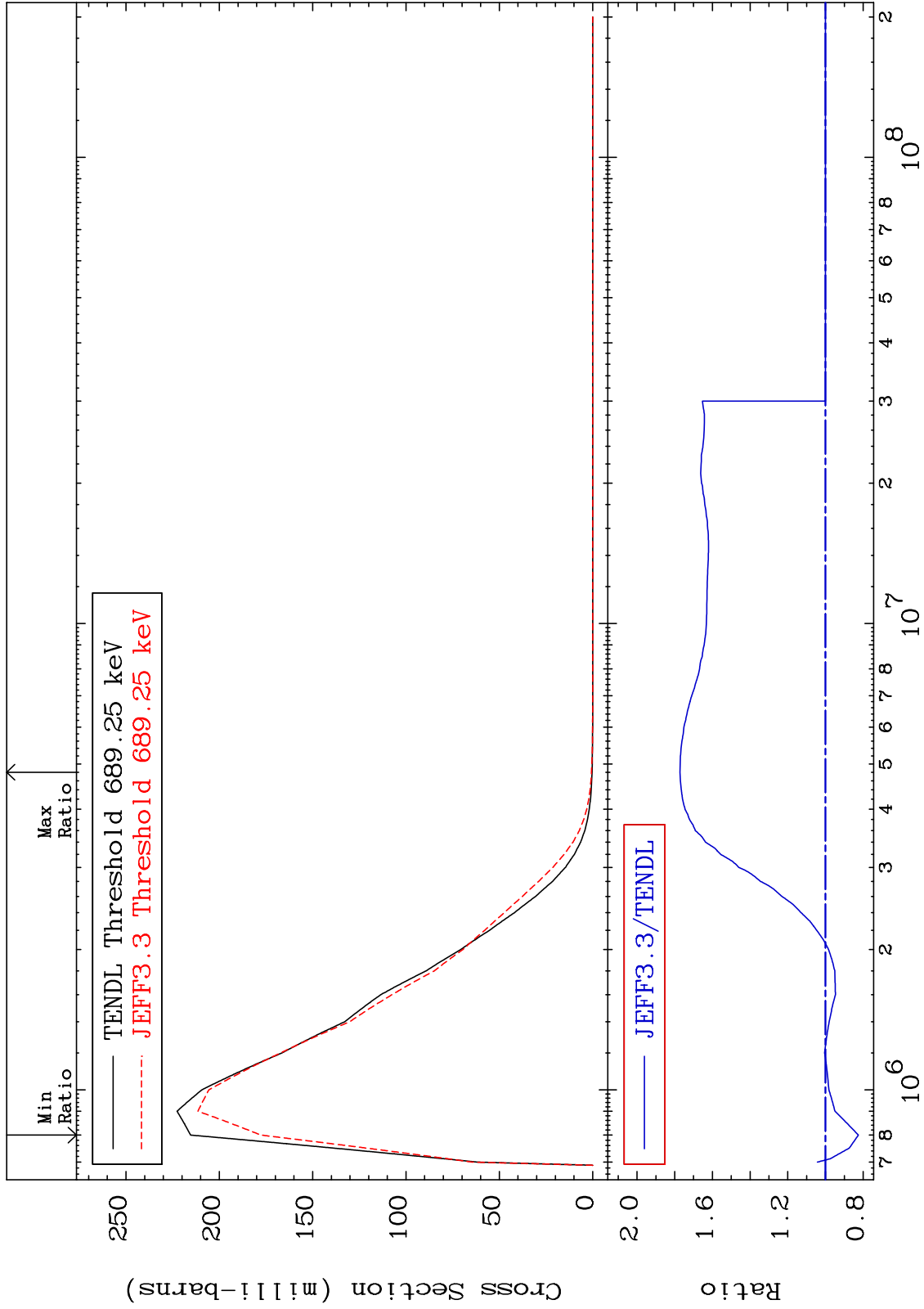
Incident Energy (eV)

62-Sm-152

MAT 6249

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

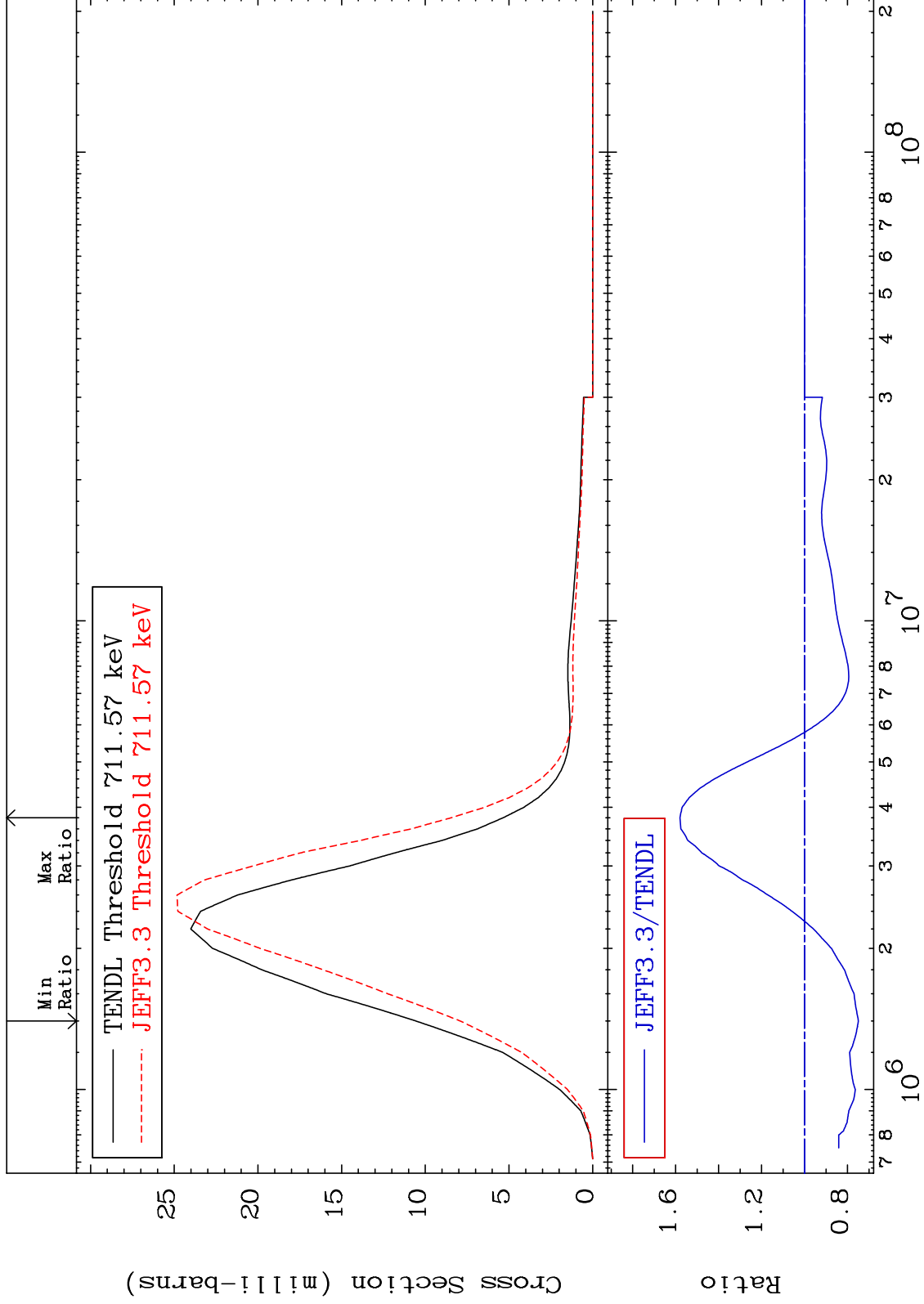
62-Sm-152
-17.47 To 77.18 %



MAT 6249

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

62-Sm-152
-25.07 To 57.98 %



24

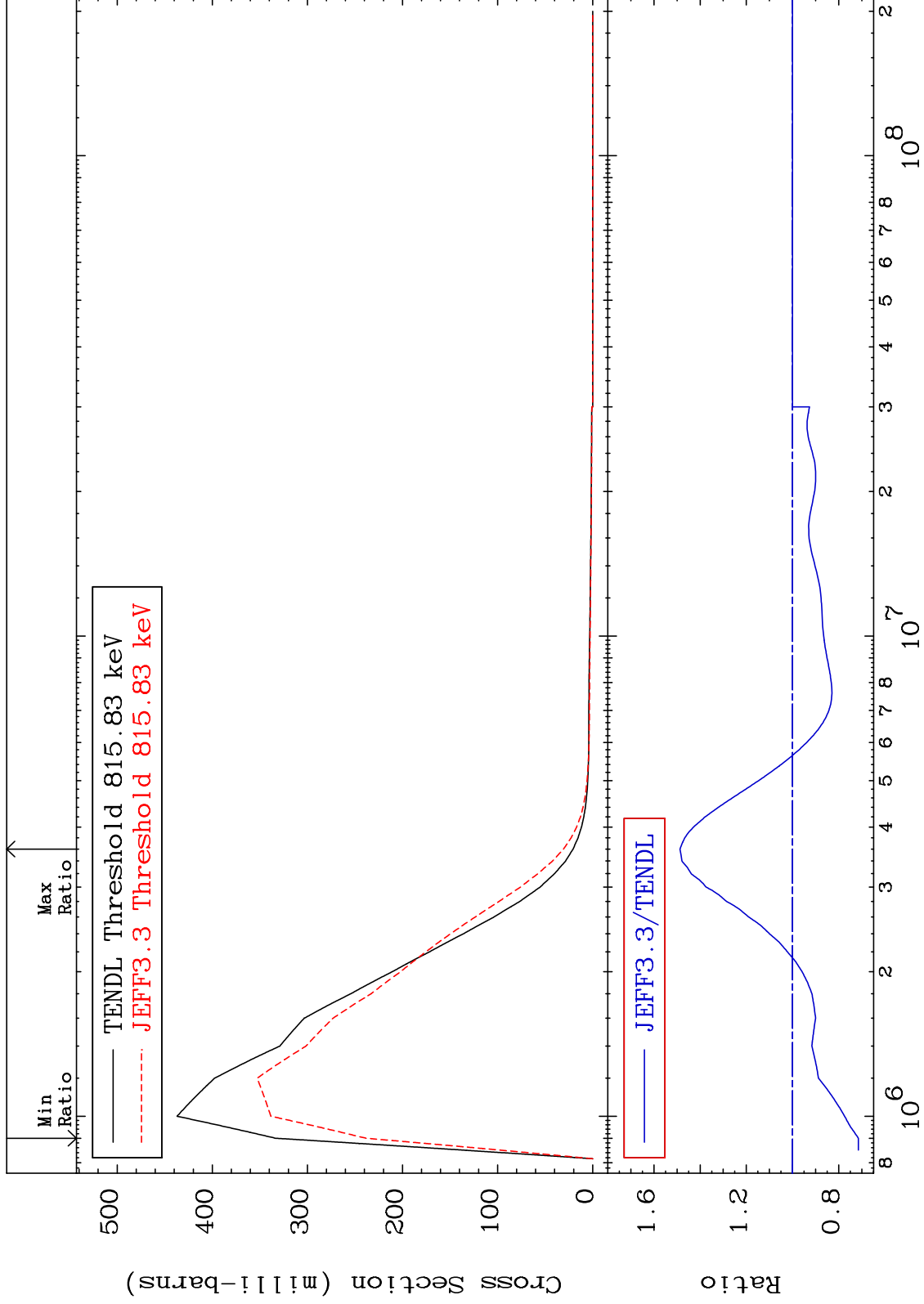
Incident Energy (eV)

62-Sm-152

MAT 6249

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

62-Sm-152
-28.52 To 48.71 %



25

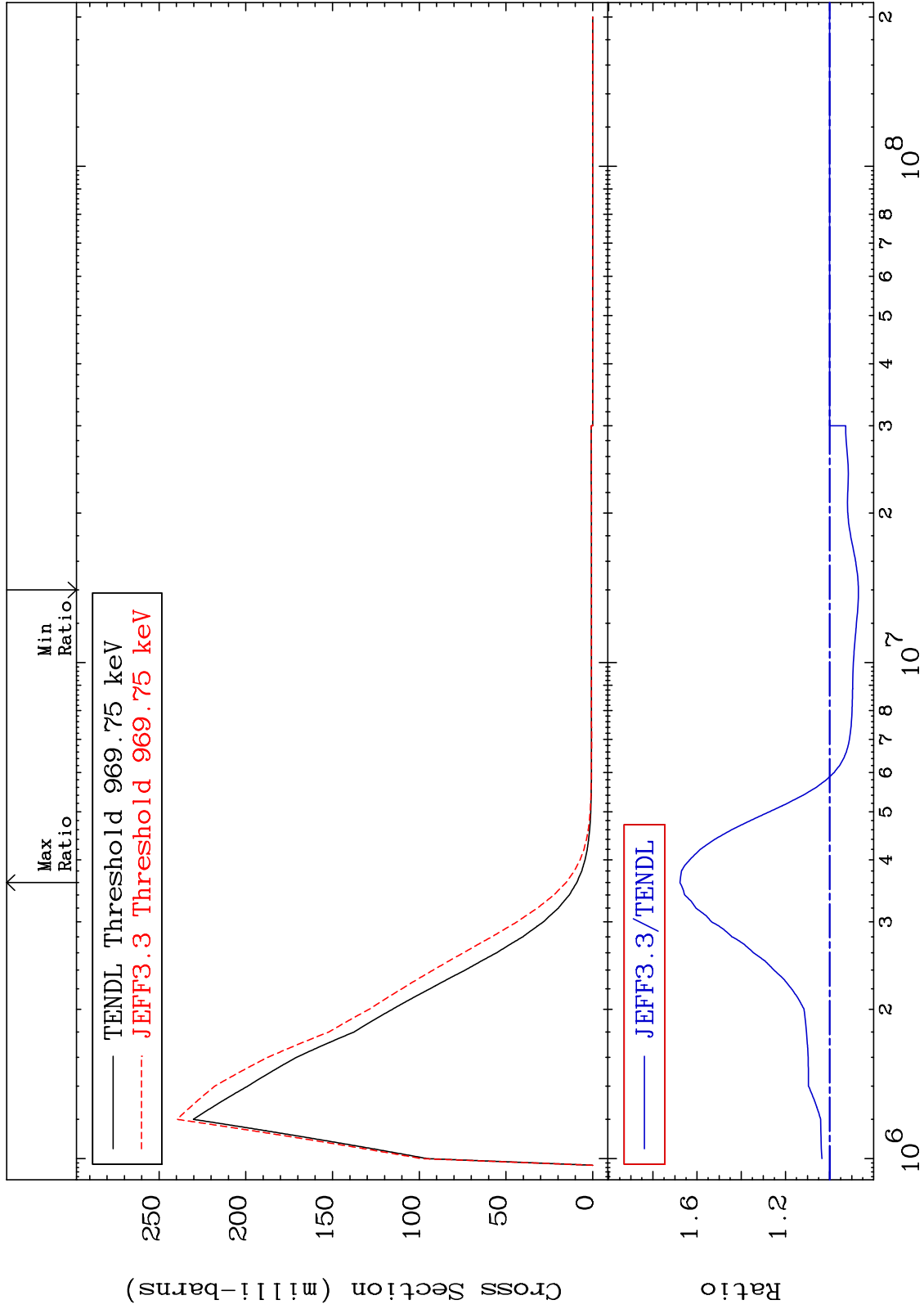
Incident Energy (eV)

62-Sm-152

MAT 6249

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

62-Sm-152
-13.01 To 67.72 %



26

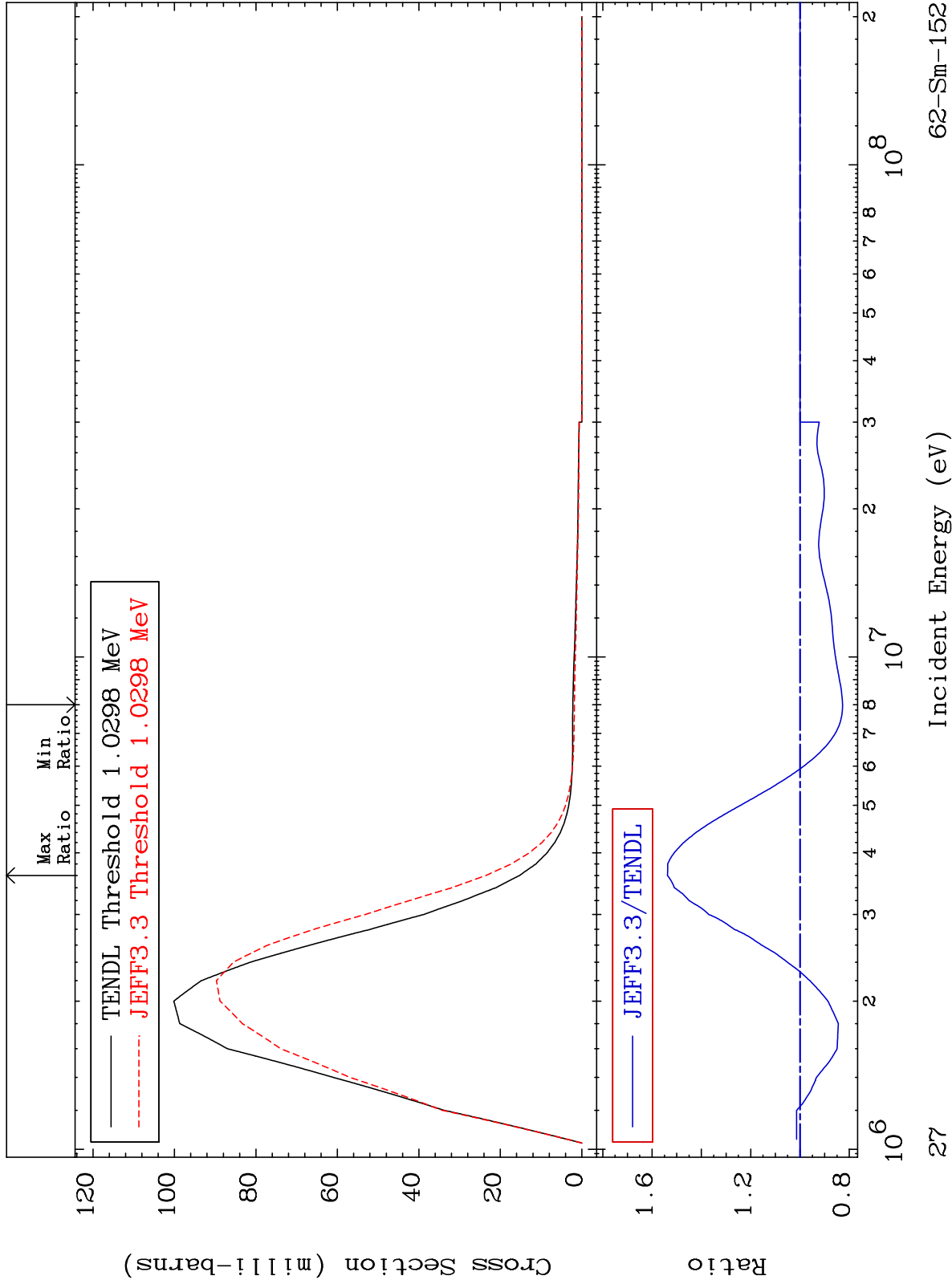
Incident Energy (eV)

62-Sm-152

MAT 6249

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

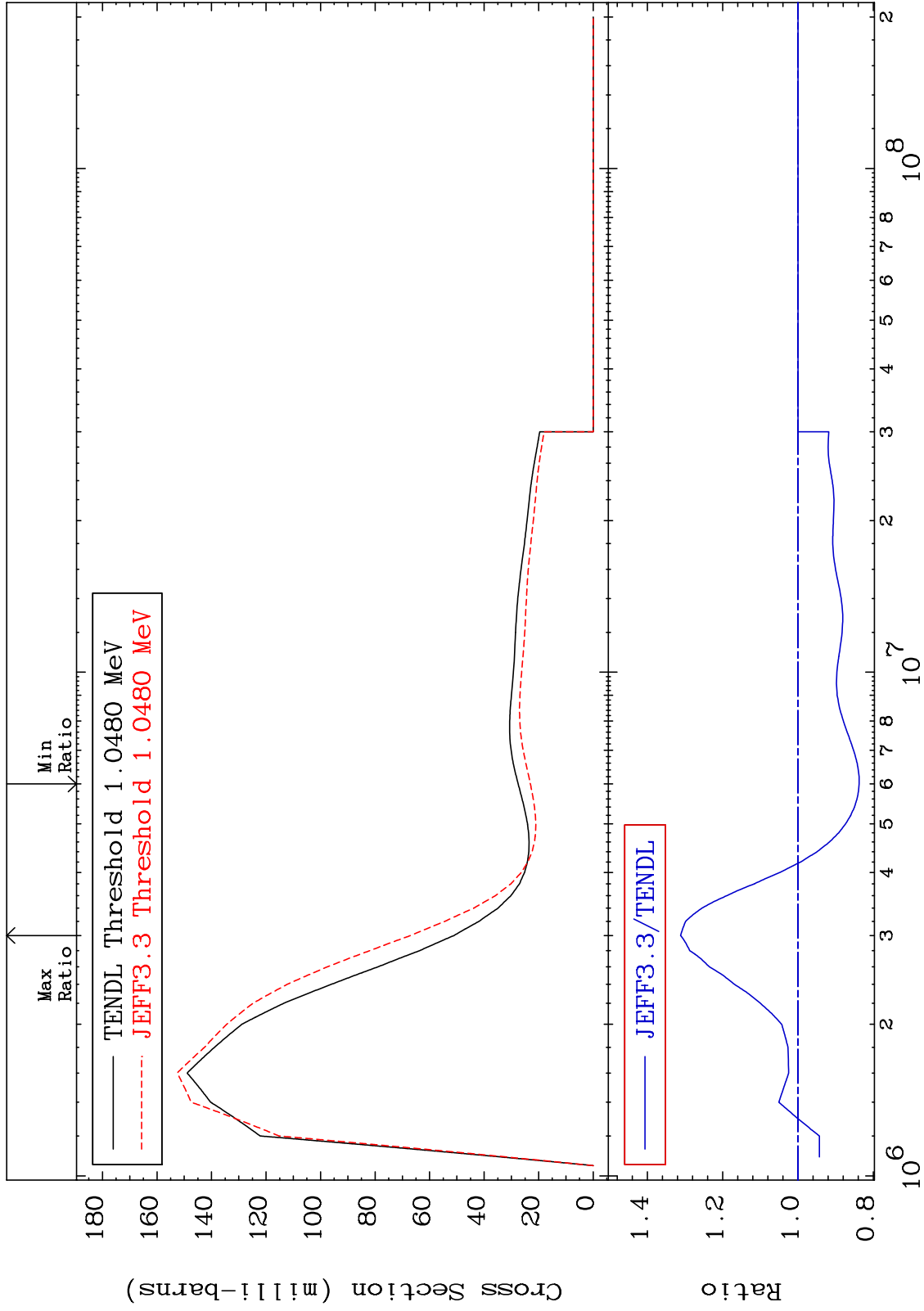
62-Sm-152
-17.29 To 53.73 %



MAT 6249

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

62-Sm-152
-16.26 To 31.15 %



28

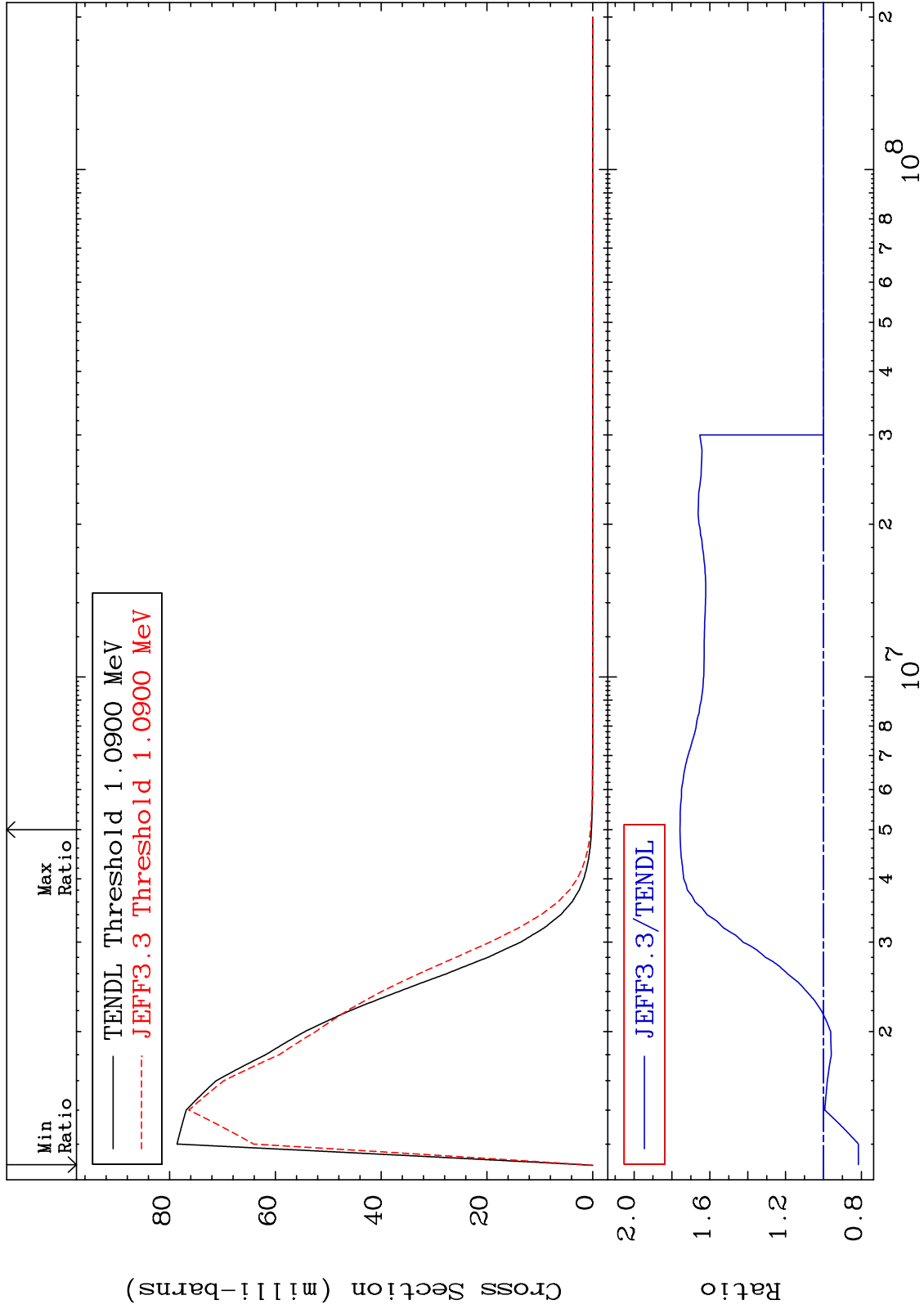
Incident Energy (eV)

62-Sm-152

MAT 6249

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

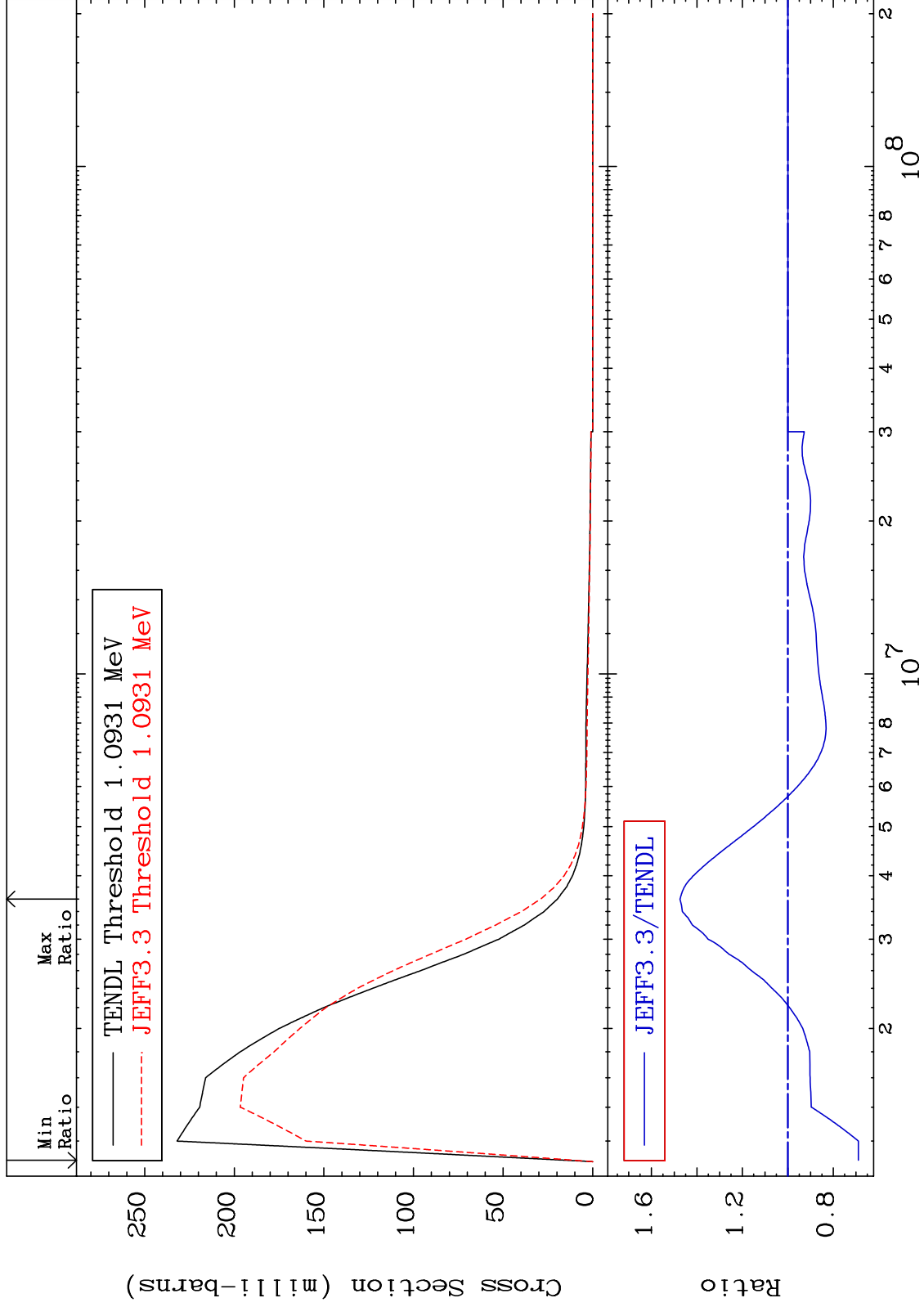
62-Sm-152
-18.44 To 75.74 %



MAT 6249

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

62-Sm-152
-31.06 To 47.44 %



30

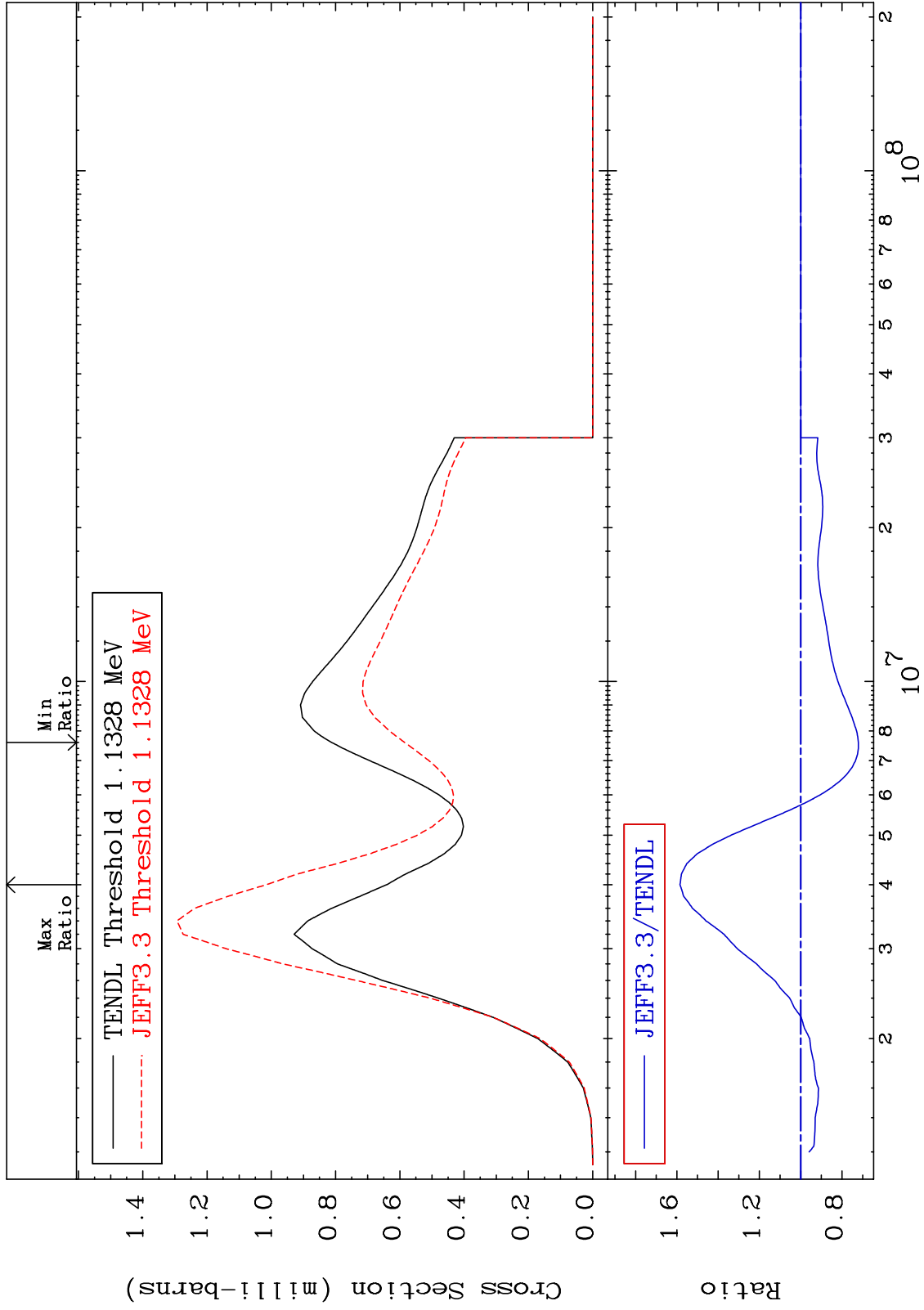
Incident Energy (eV)

62-Sm-152

MAT 6249

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

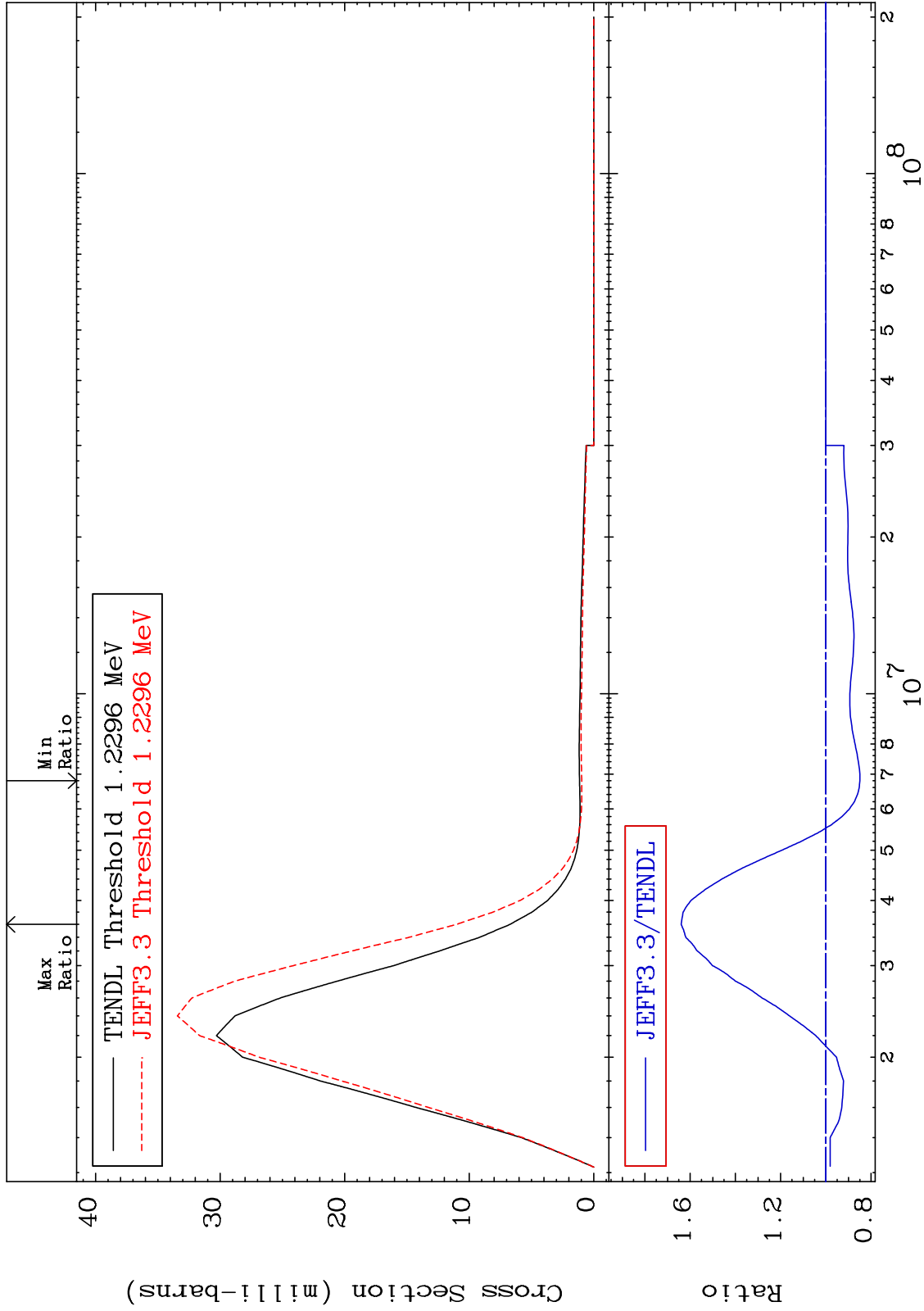
62-Sm-152
-27.95 To 58.47 %



MAT 6249

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

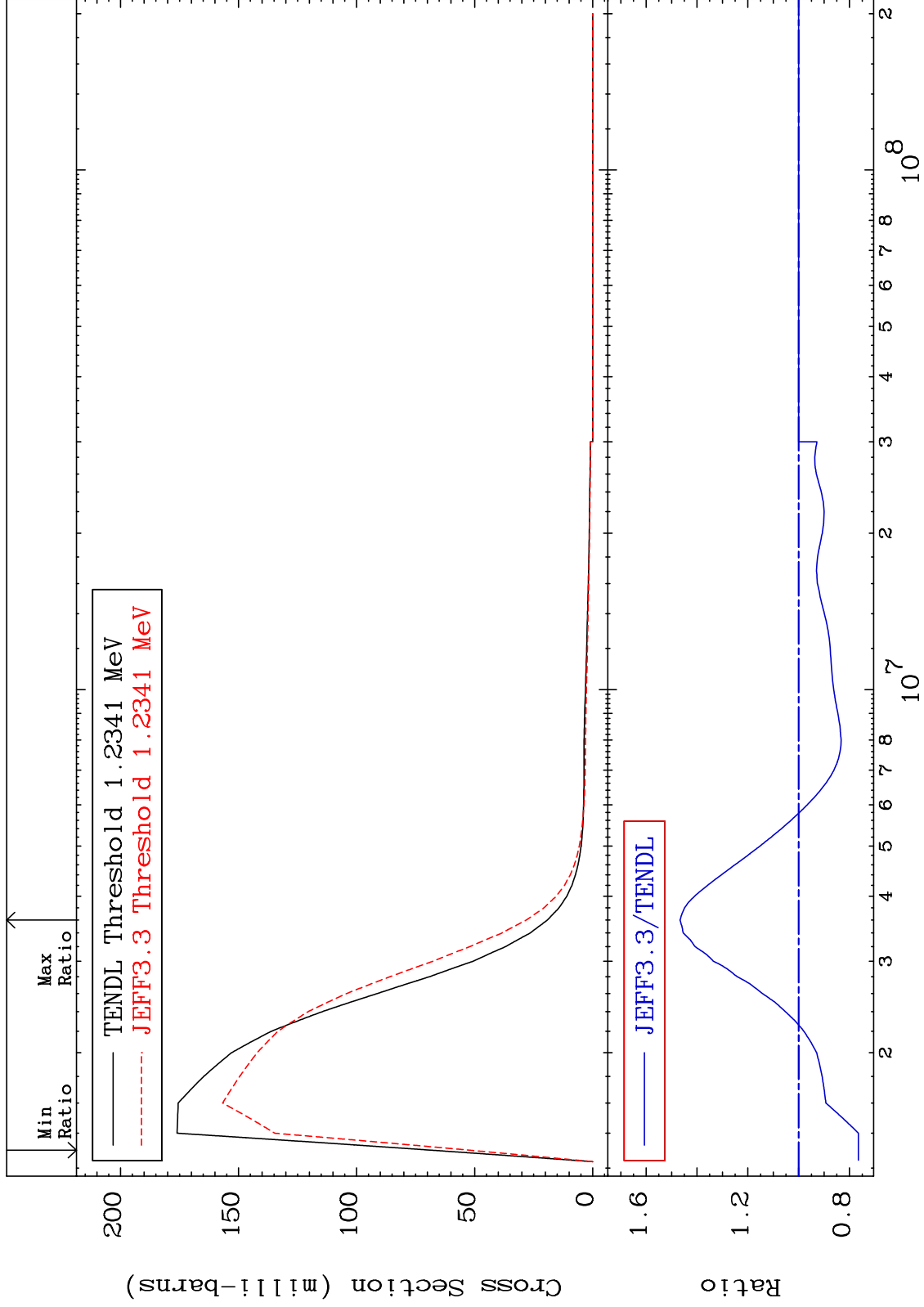
62-Sm-152
-15.06 To 63.95 %



MAT 6249

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

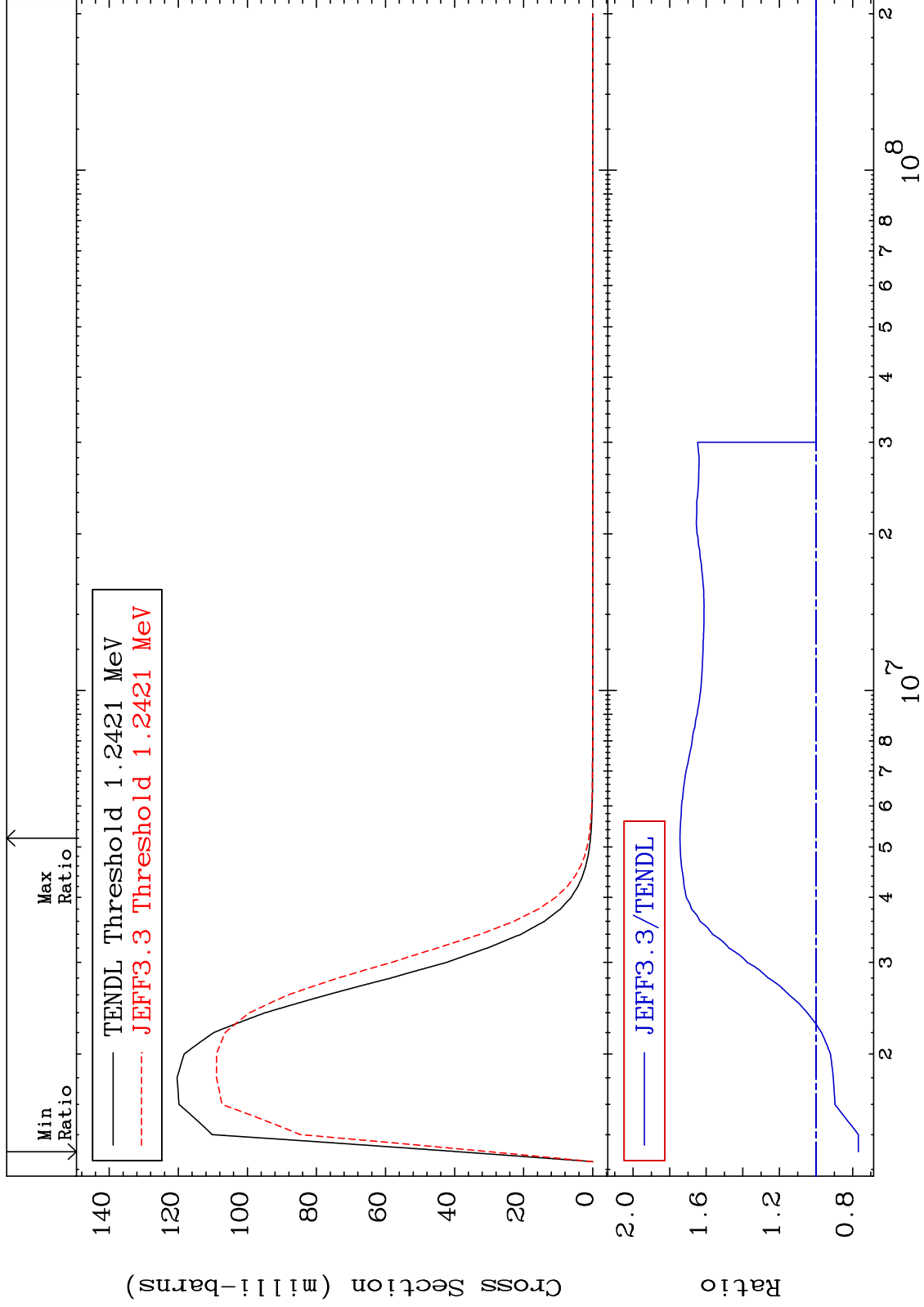
62-Sm-152
-23.51 To 46.69 %



MAT 6249

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

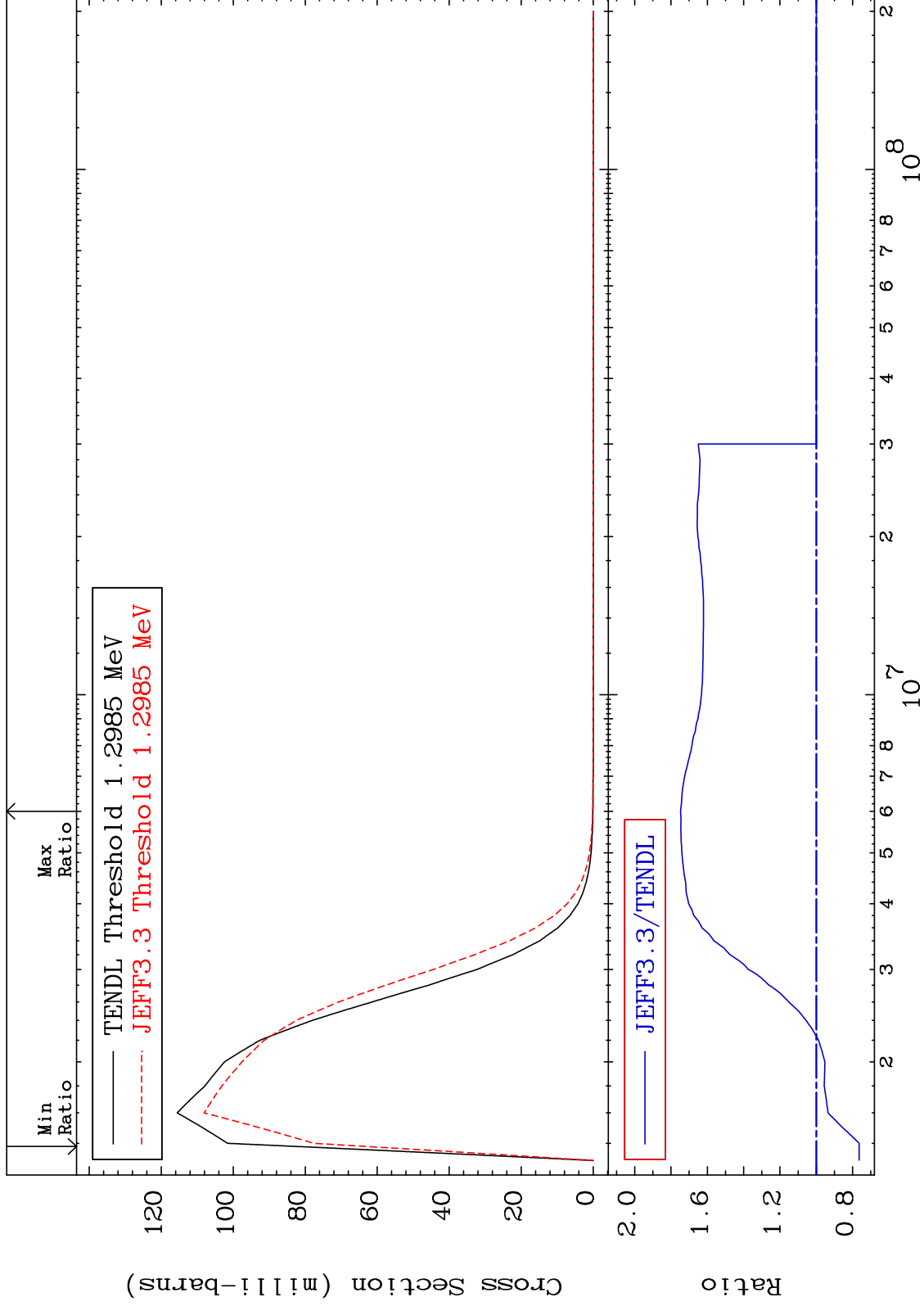
62-Sm-152
-23.18 To 74.32 %



MAT 6249

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

62-Sm-152
-23.62 To 74.71 %



35

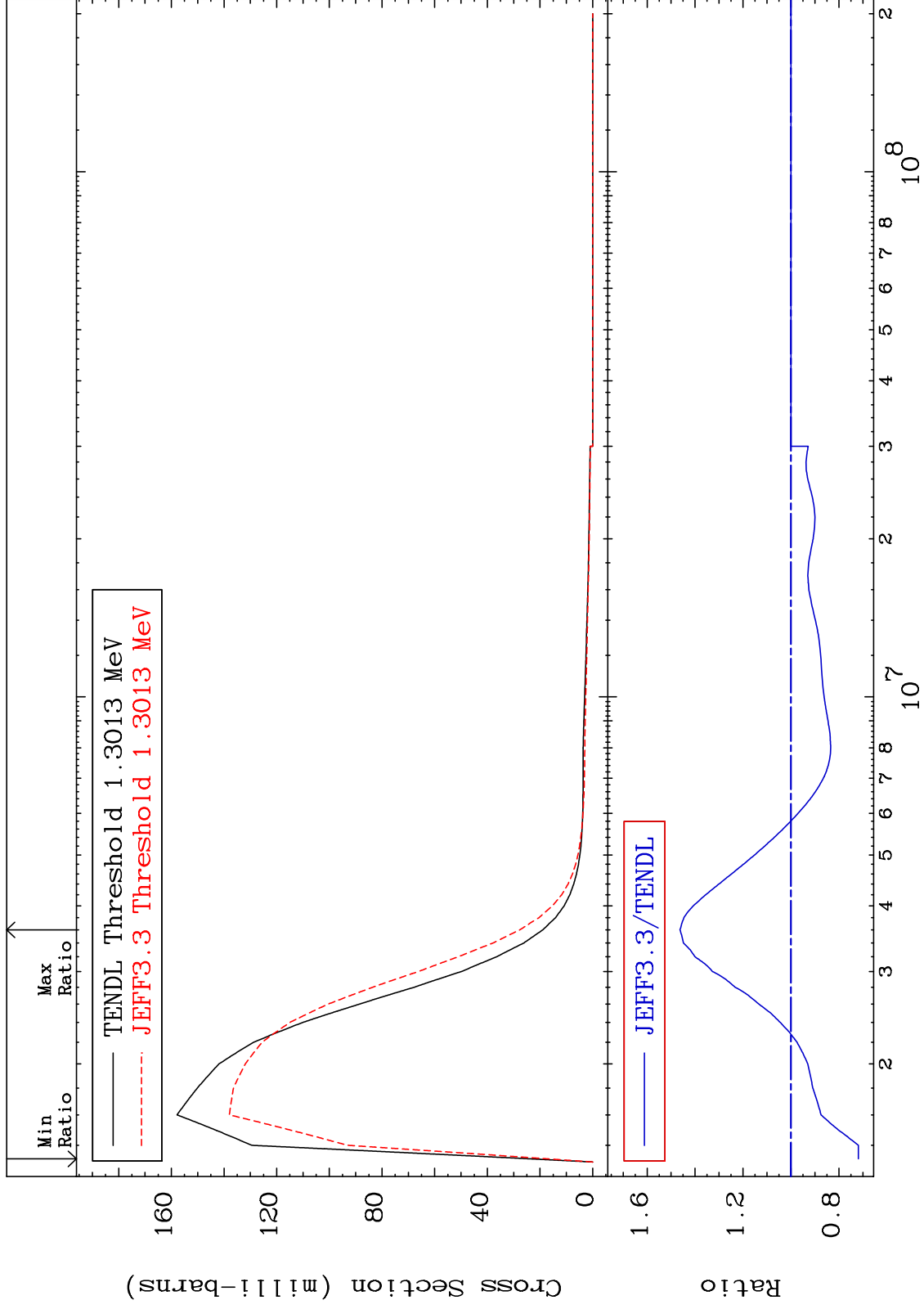
Incident Energy (eV)

62-Sm-152

MAT 6249

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

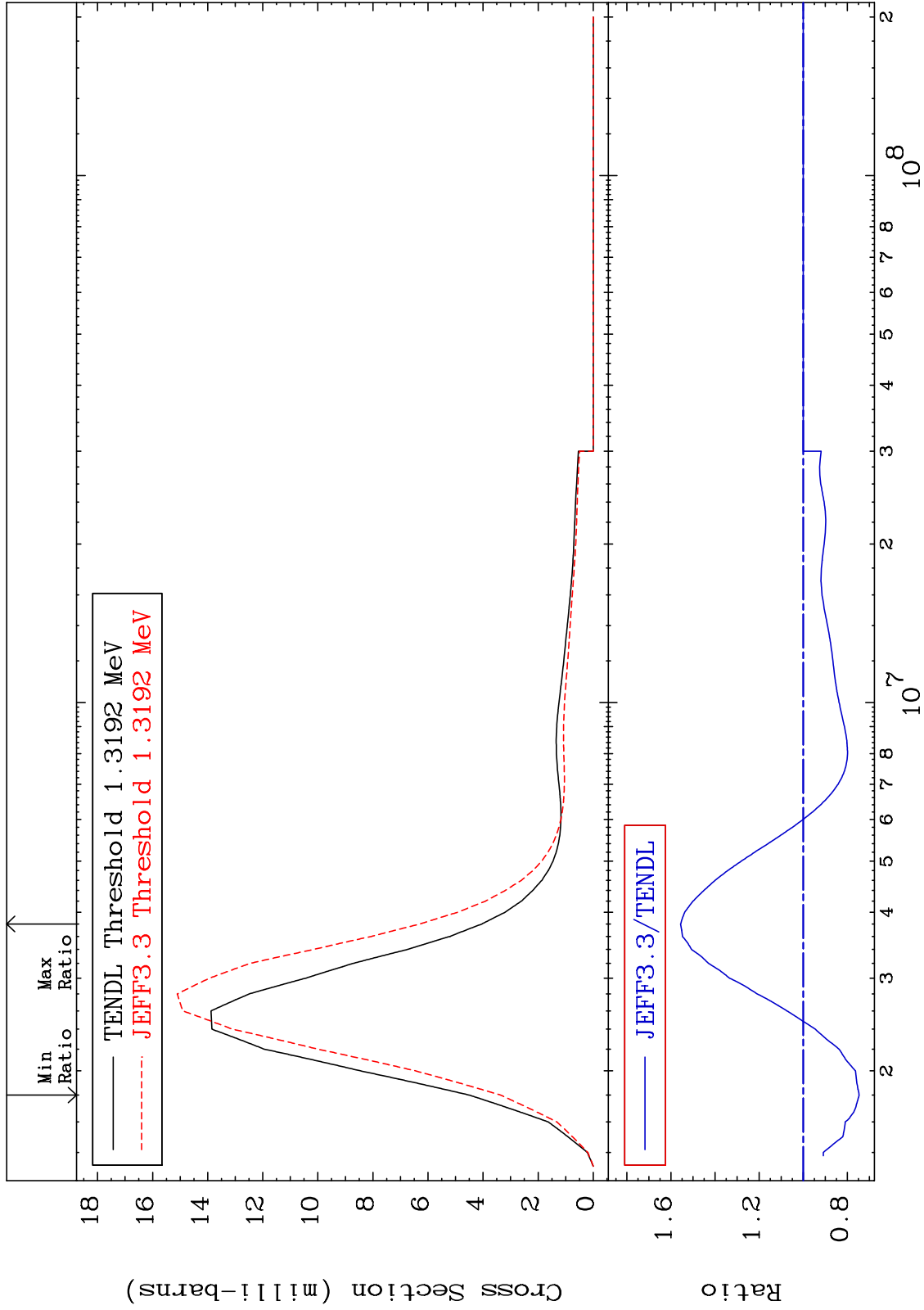
62-Sm-152
-28.14 To 46.29 %



MAT 6249

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

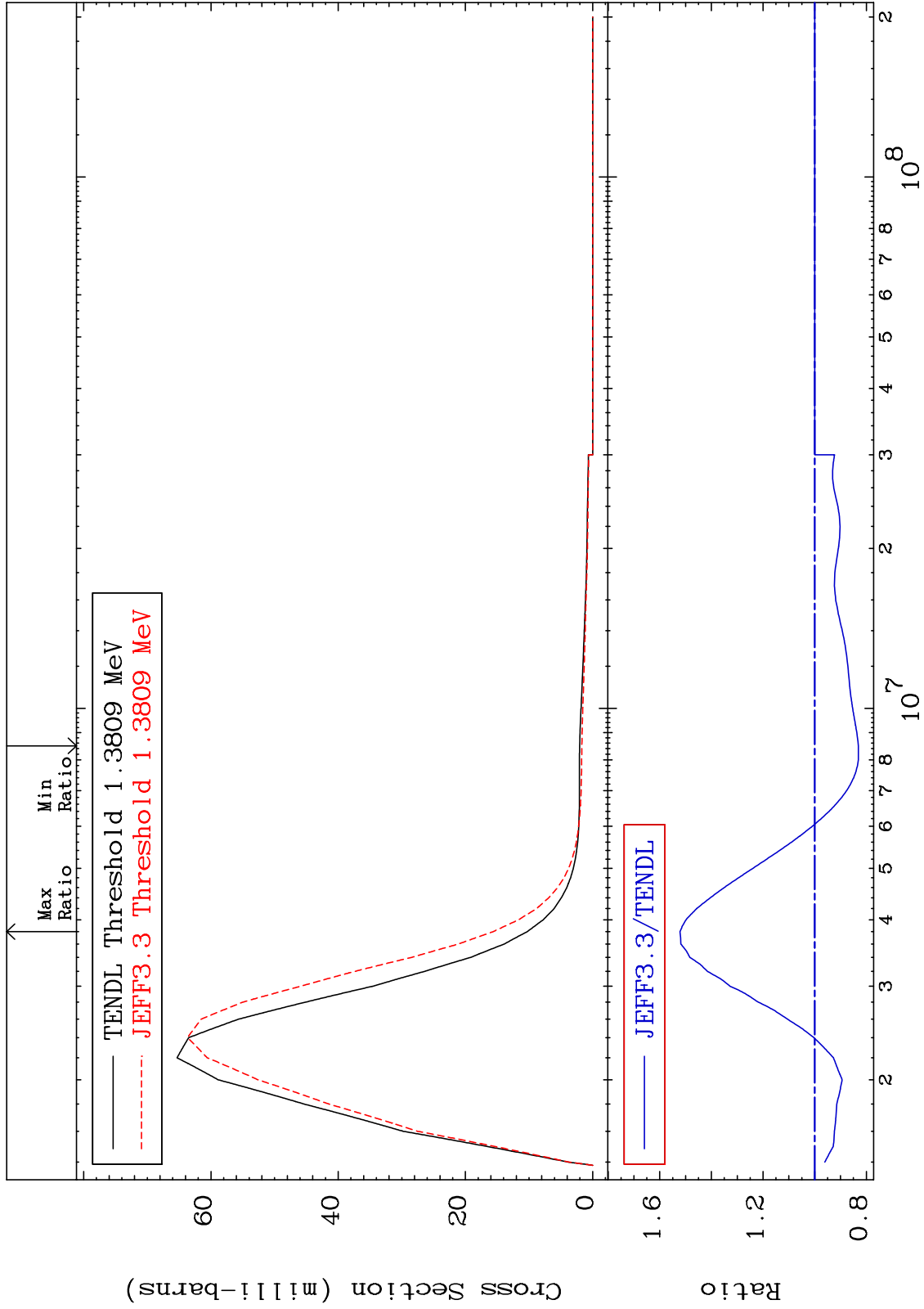
62-Sm-152
-25.36 To 55.64 %



MAT 6249

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

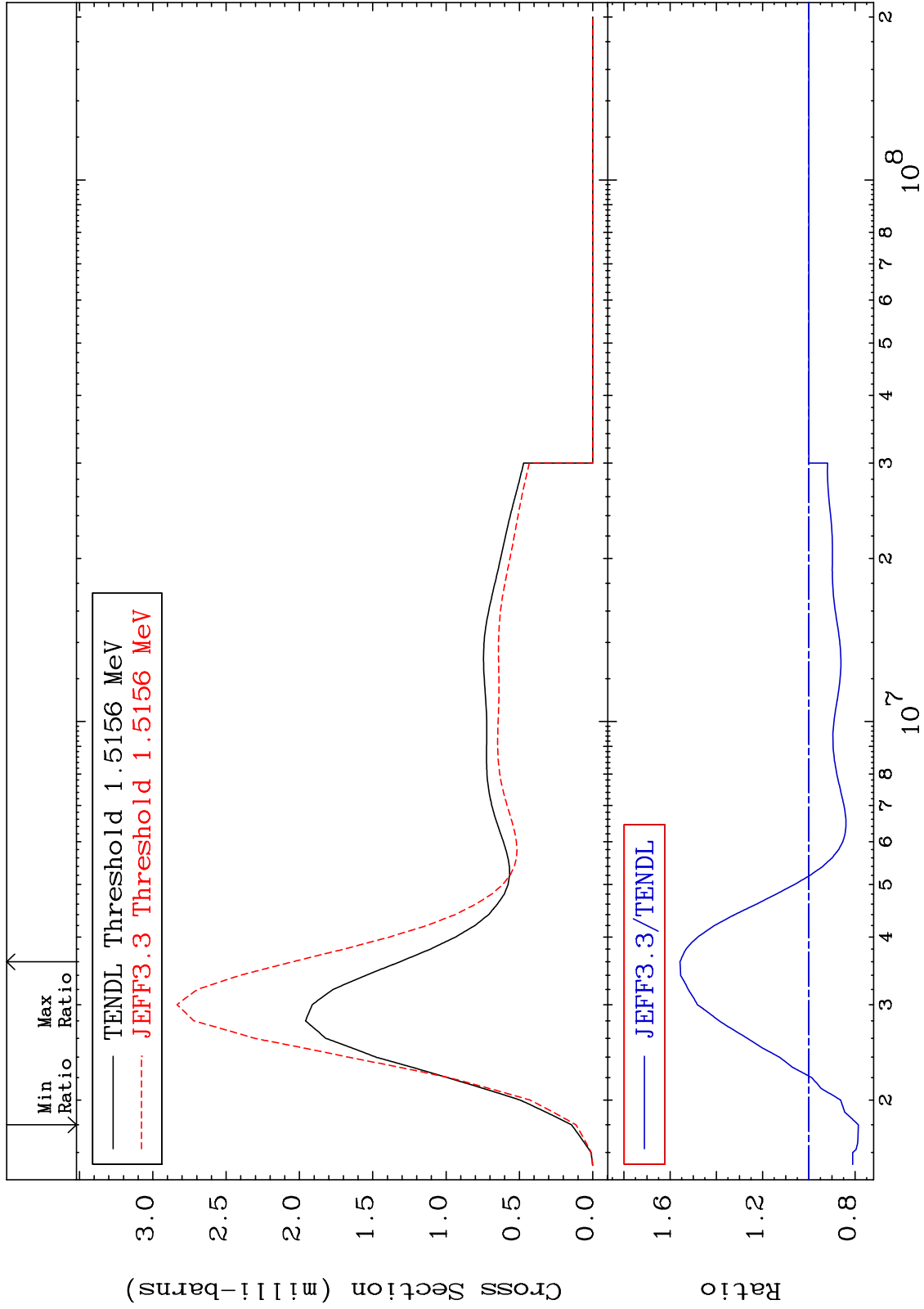
62-Sm-152
-16.93 To 52.15 %



MAT 6249

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

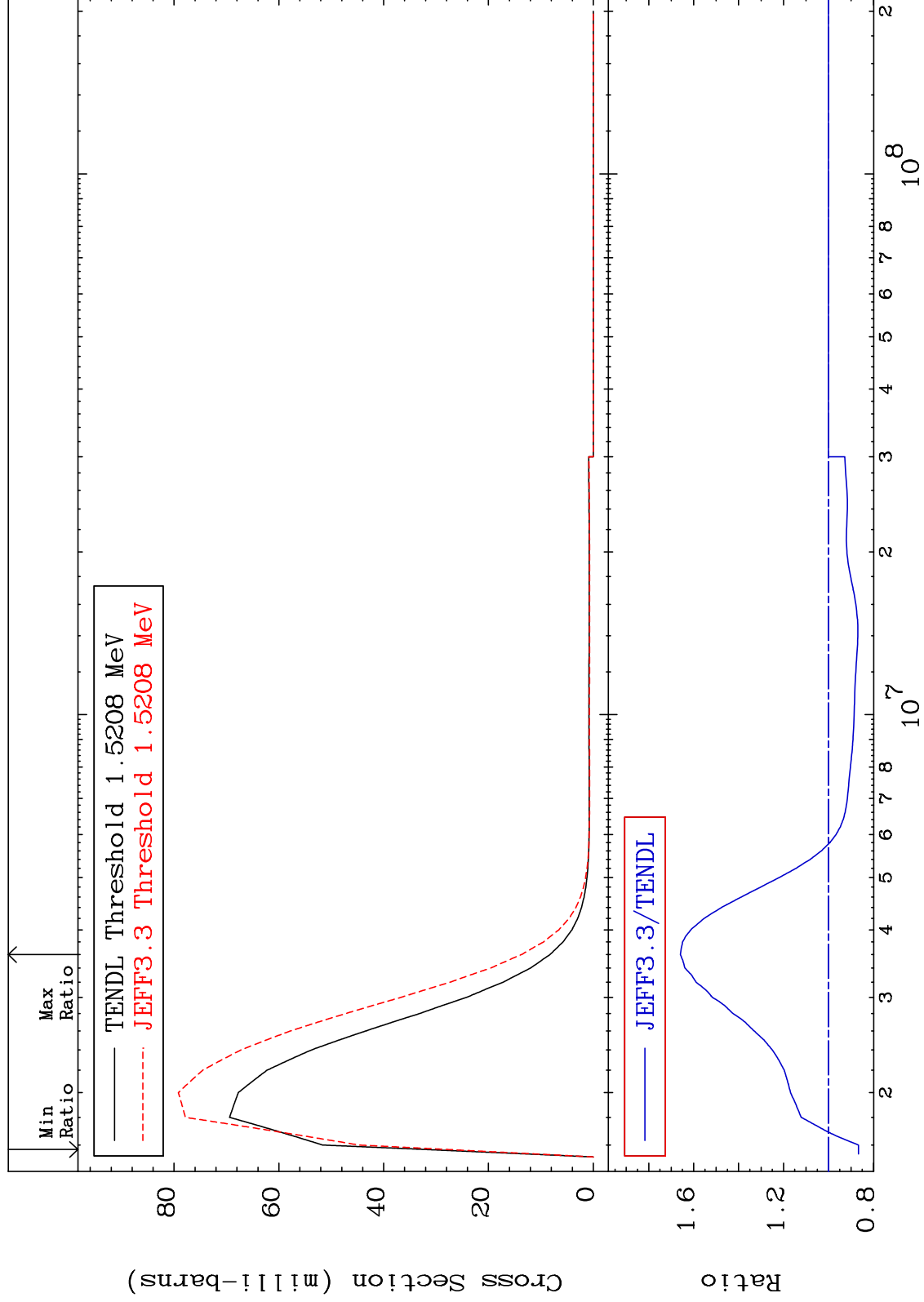
62-Sm-152
-21.41 To 55.76 %



MAT 6249

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

62-Sm-152
-13.36 To 65.88 %



40

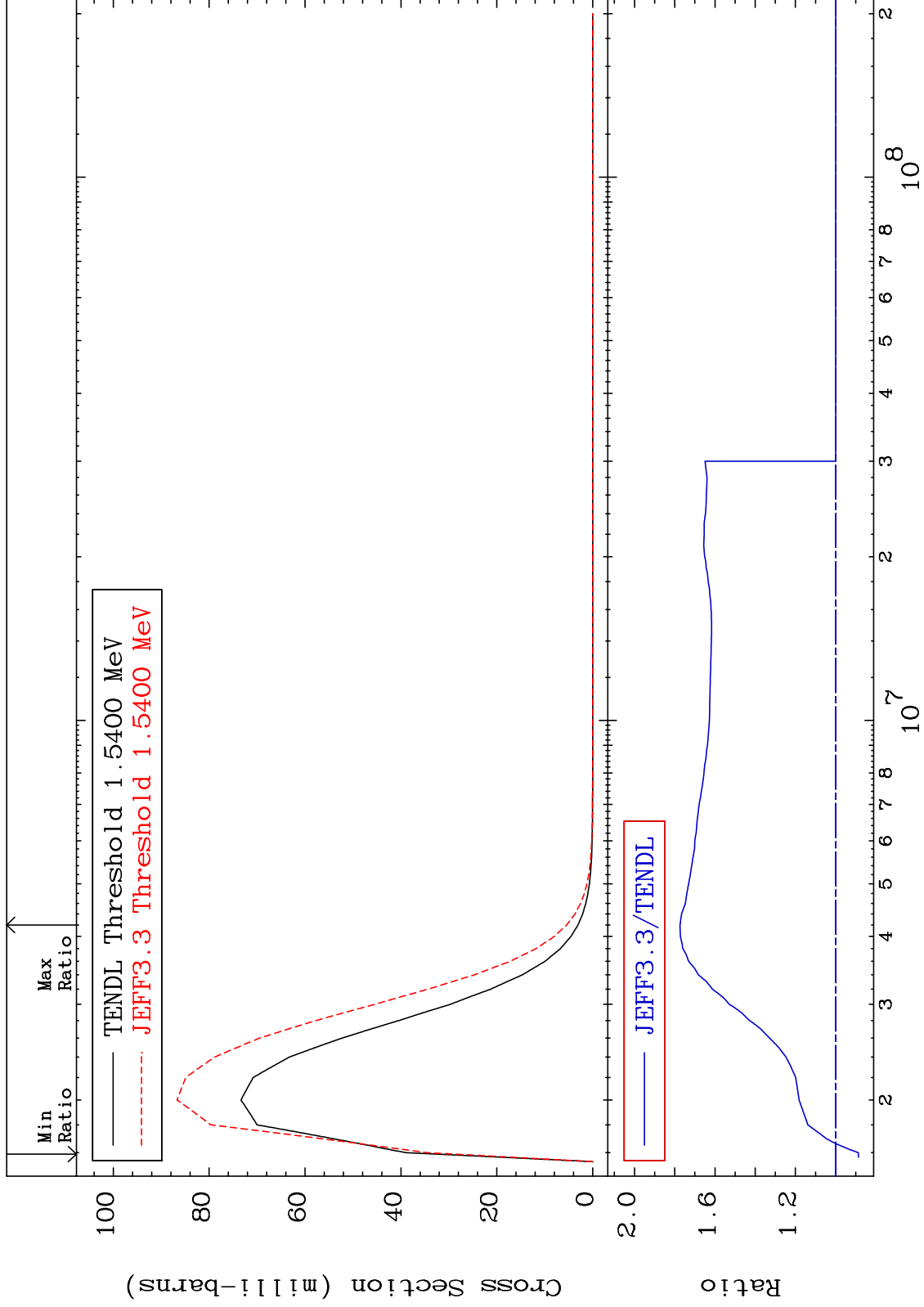
Incident Energy (eV)

62-Sm-152

MAT 6249

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

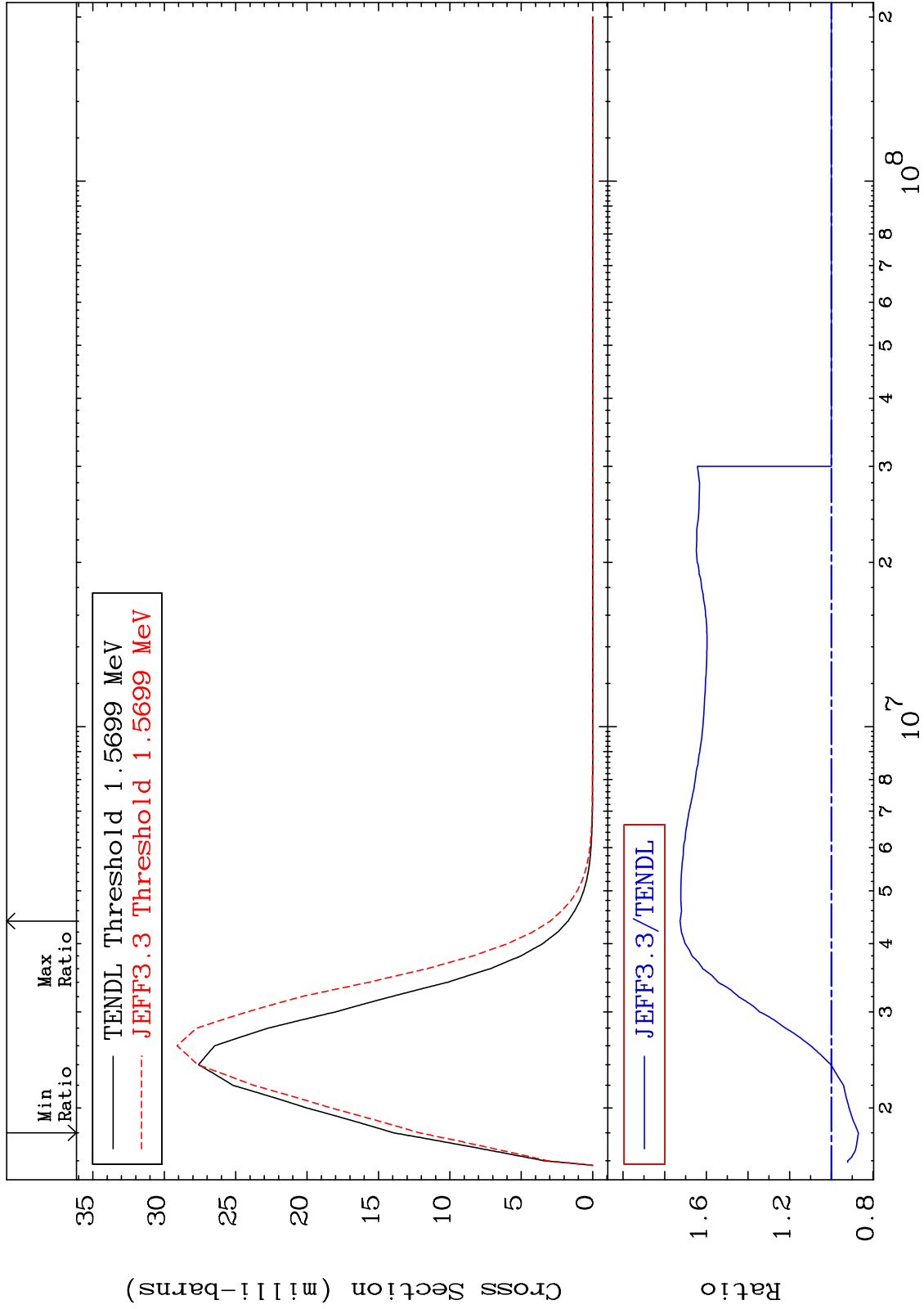
62-Sm-152
-11.33 To 77.37 %



MAT 6249

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

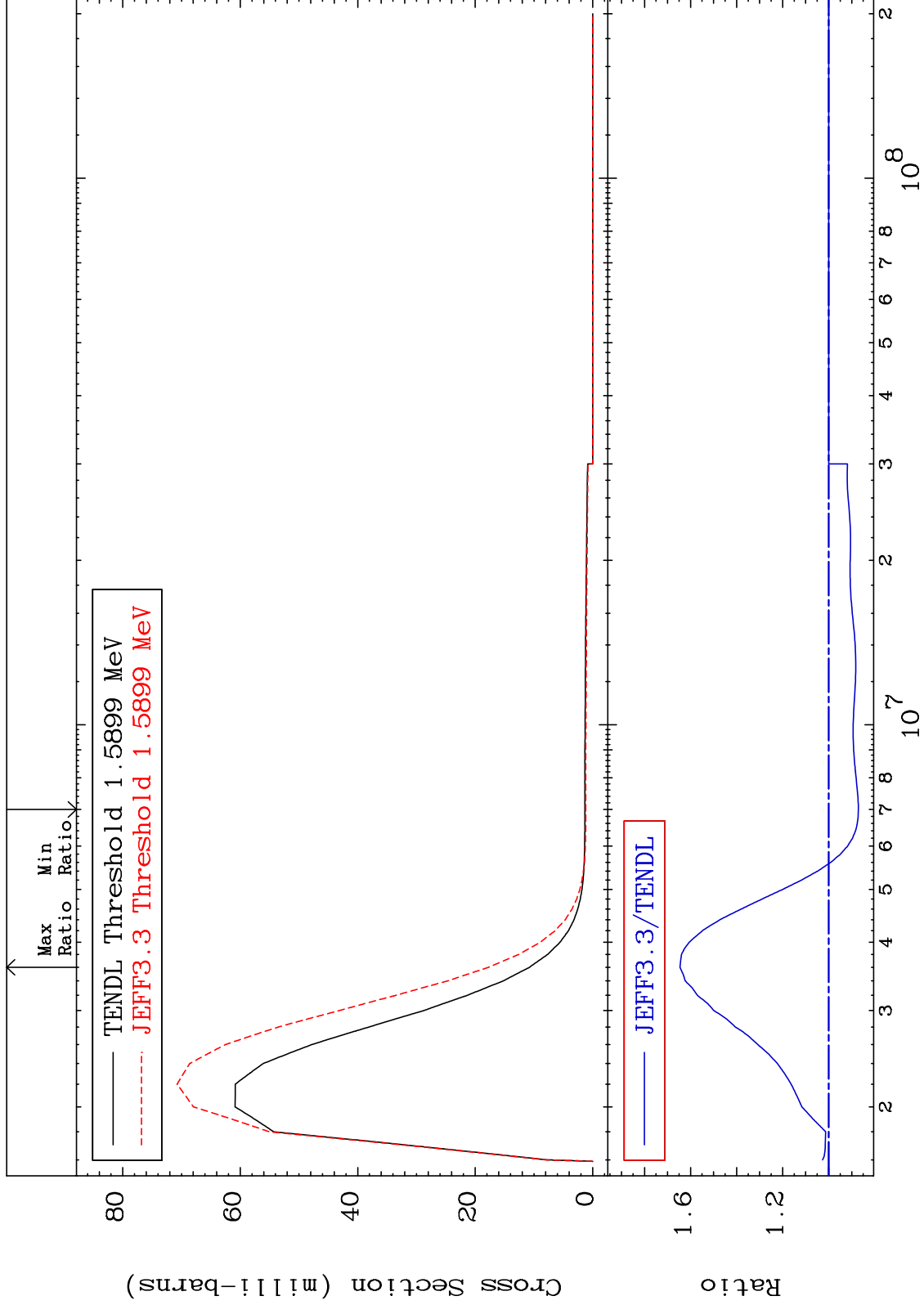
62-Sm-152
-12.97 To 72.67 %



MAT 6249

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

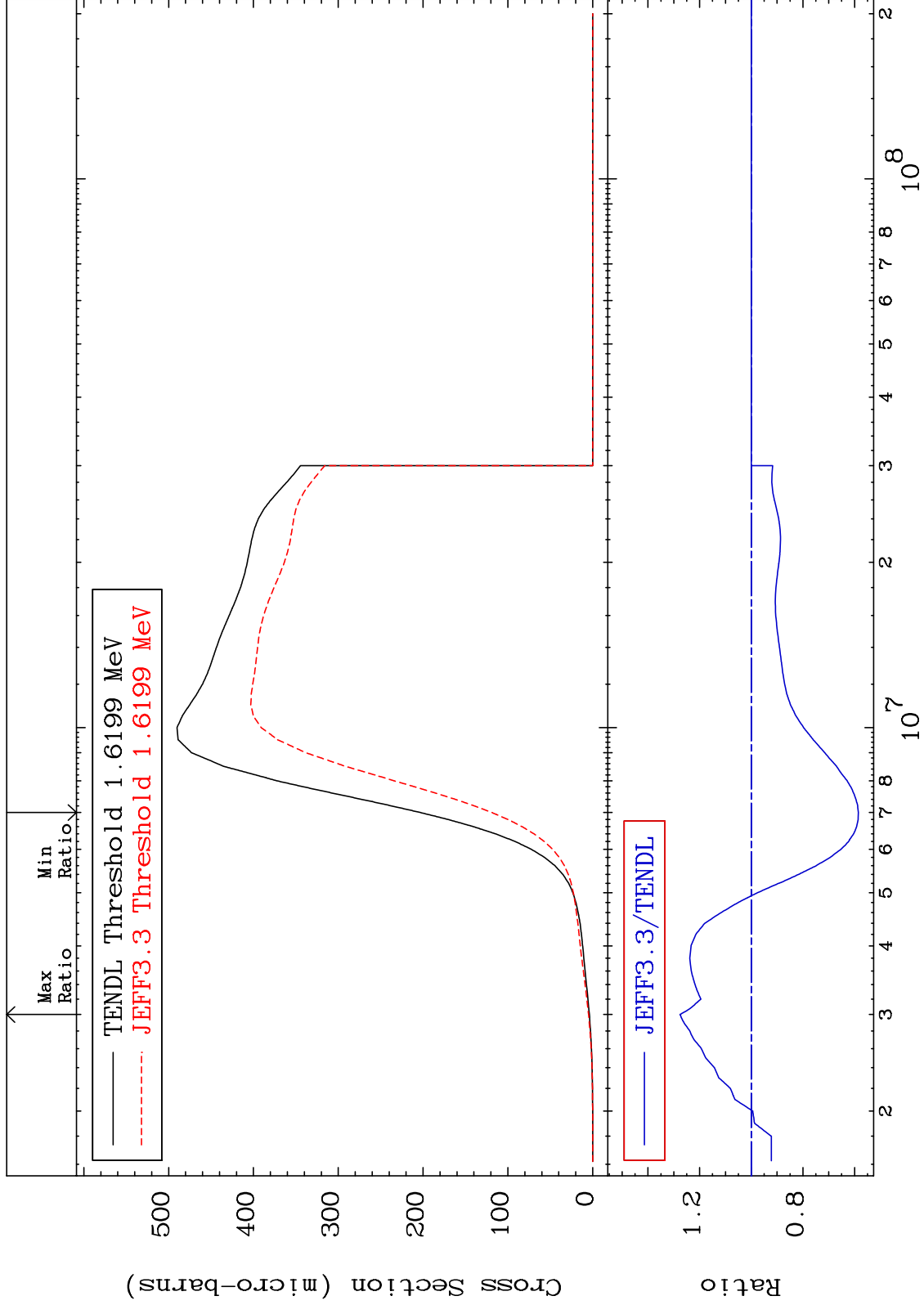
62-Sm-152
-12.90 To 64.58 %



MAT 6249

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

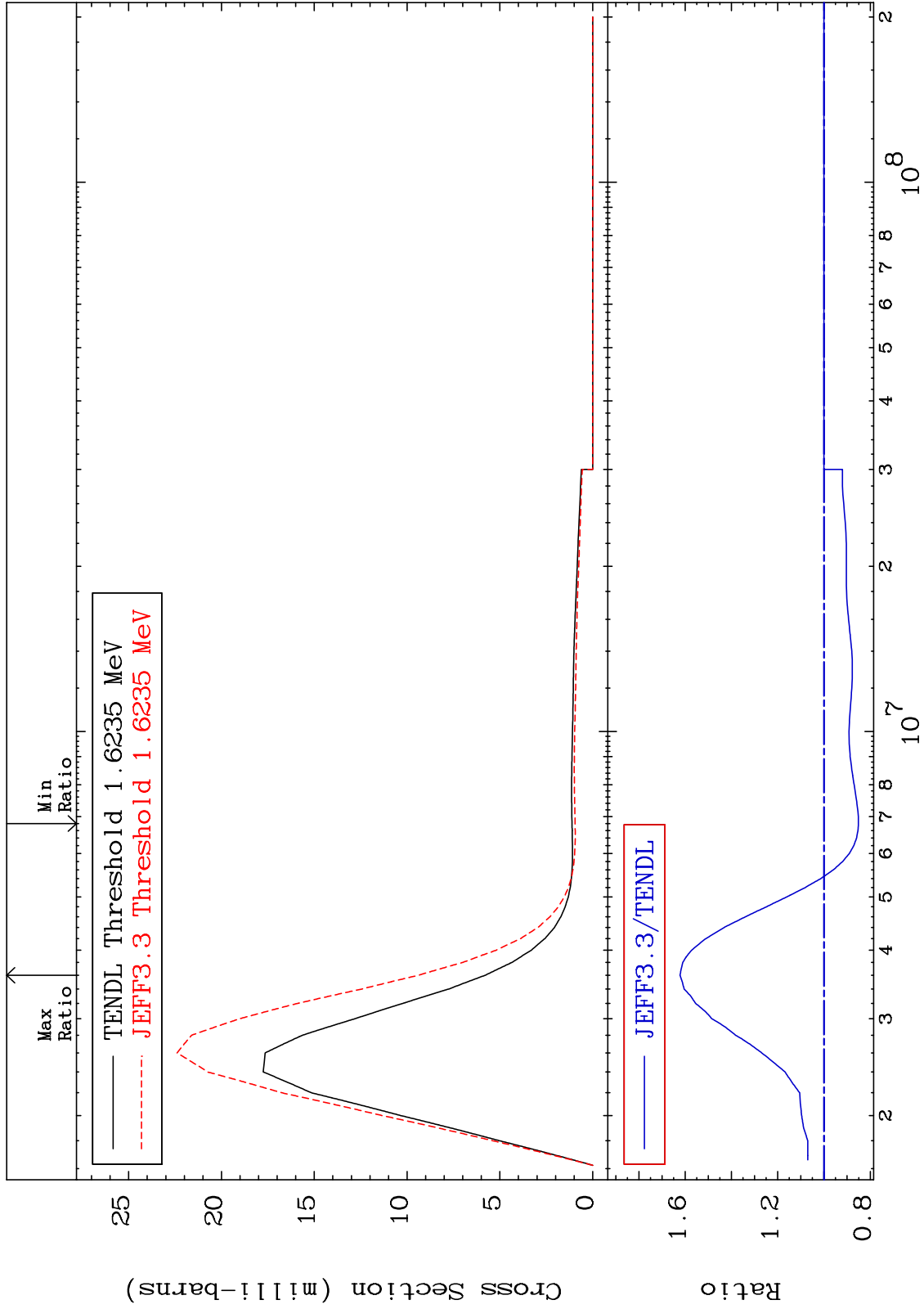
62-Sm-152
-41.48 To 27.59 %



MAT 6249

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

62-Sm-152
-14.88 To 62.22 %



45

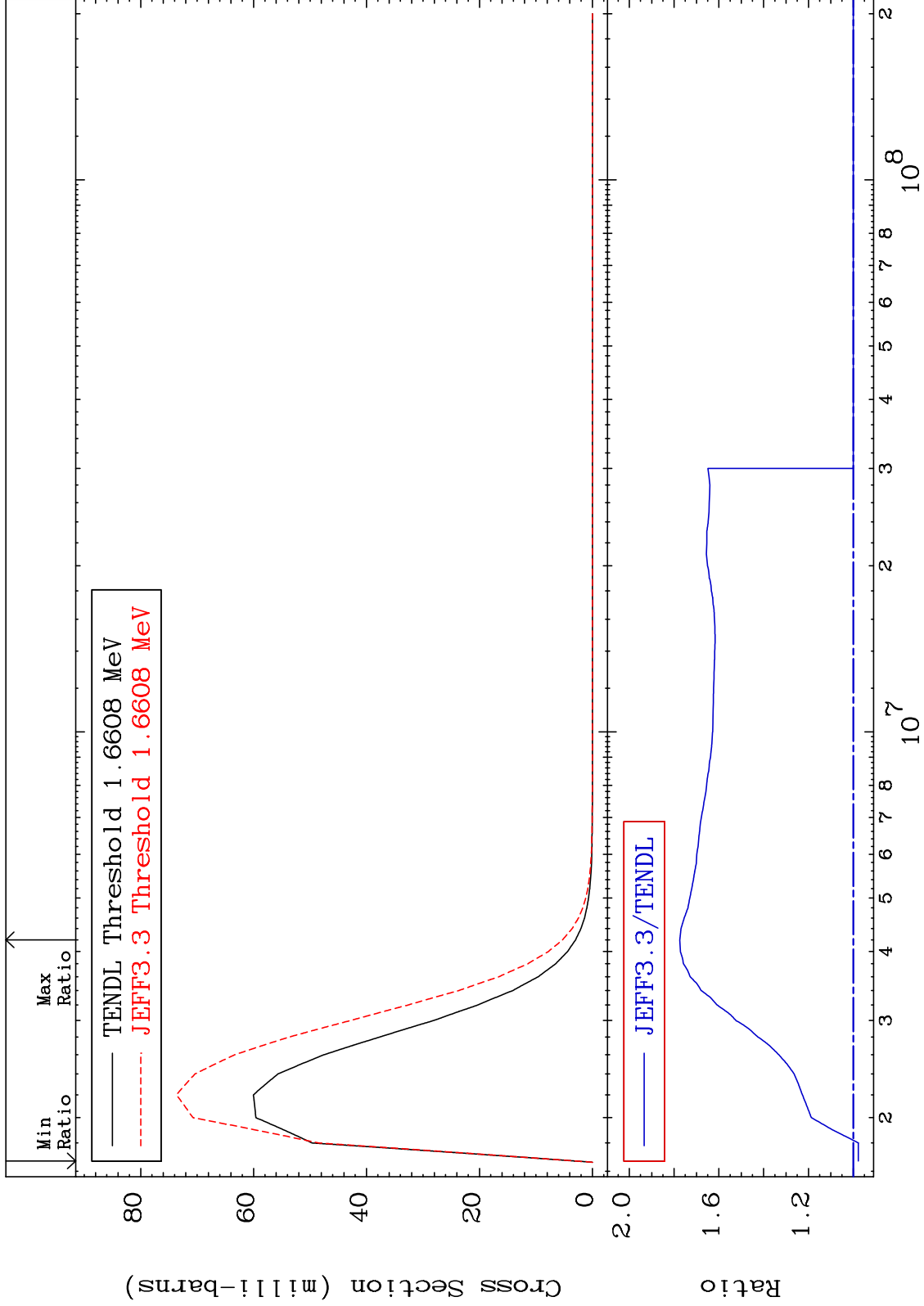
Incident Energy (eV)

62-Sm-152

MAT 6249

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

62-Sm-152
-2.286 To 77.45 %



46

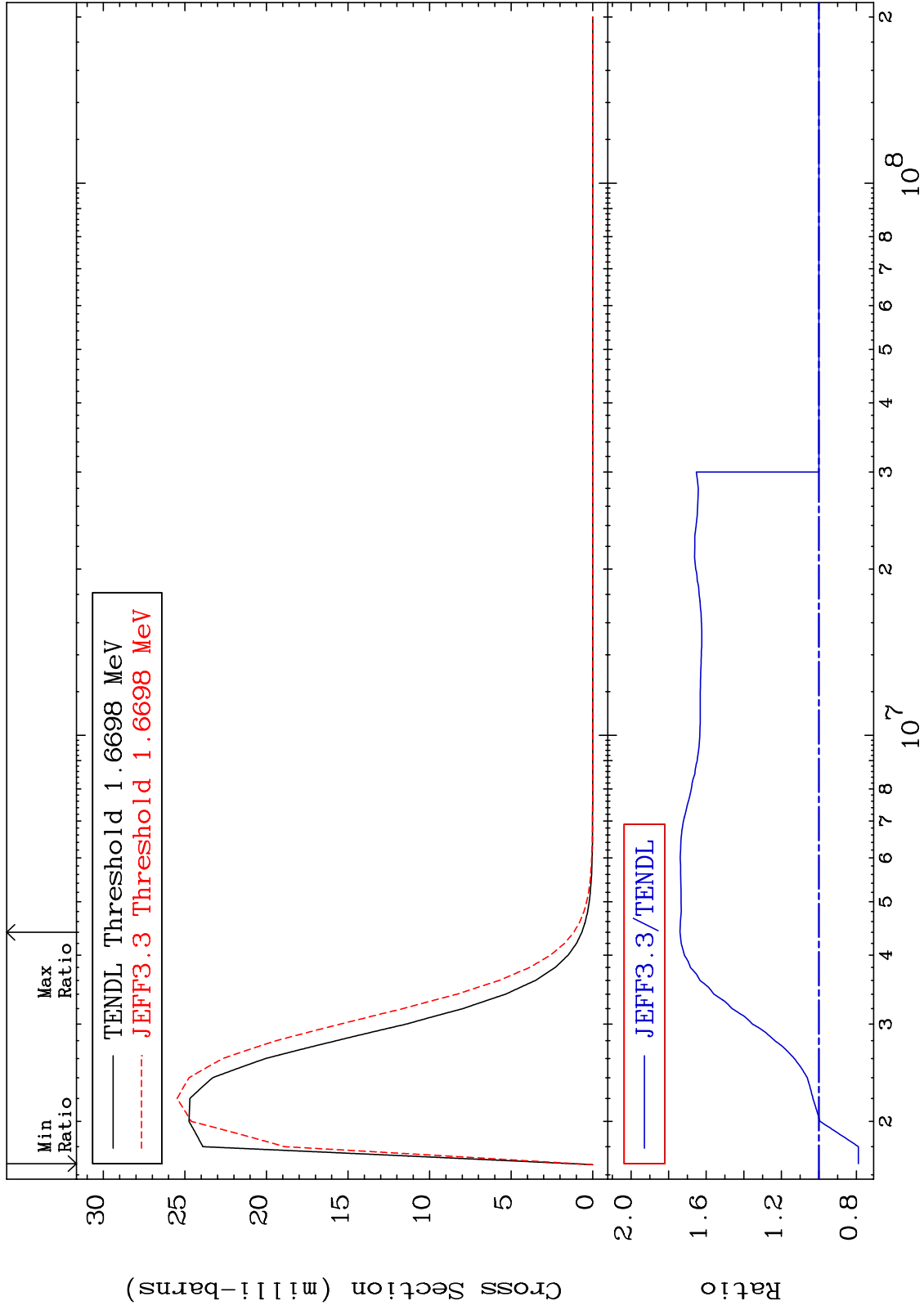
Incident Energy (eV)

62-Sm-152

MAT 6249

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

62-Sm-152
-21.02 To 73.92 %



47

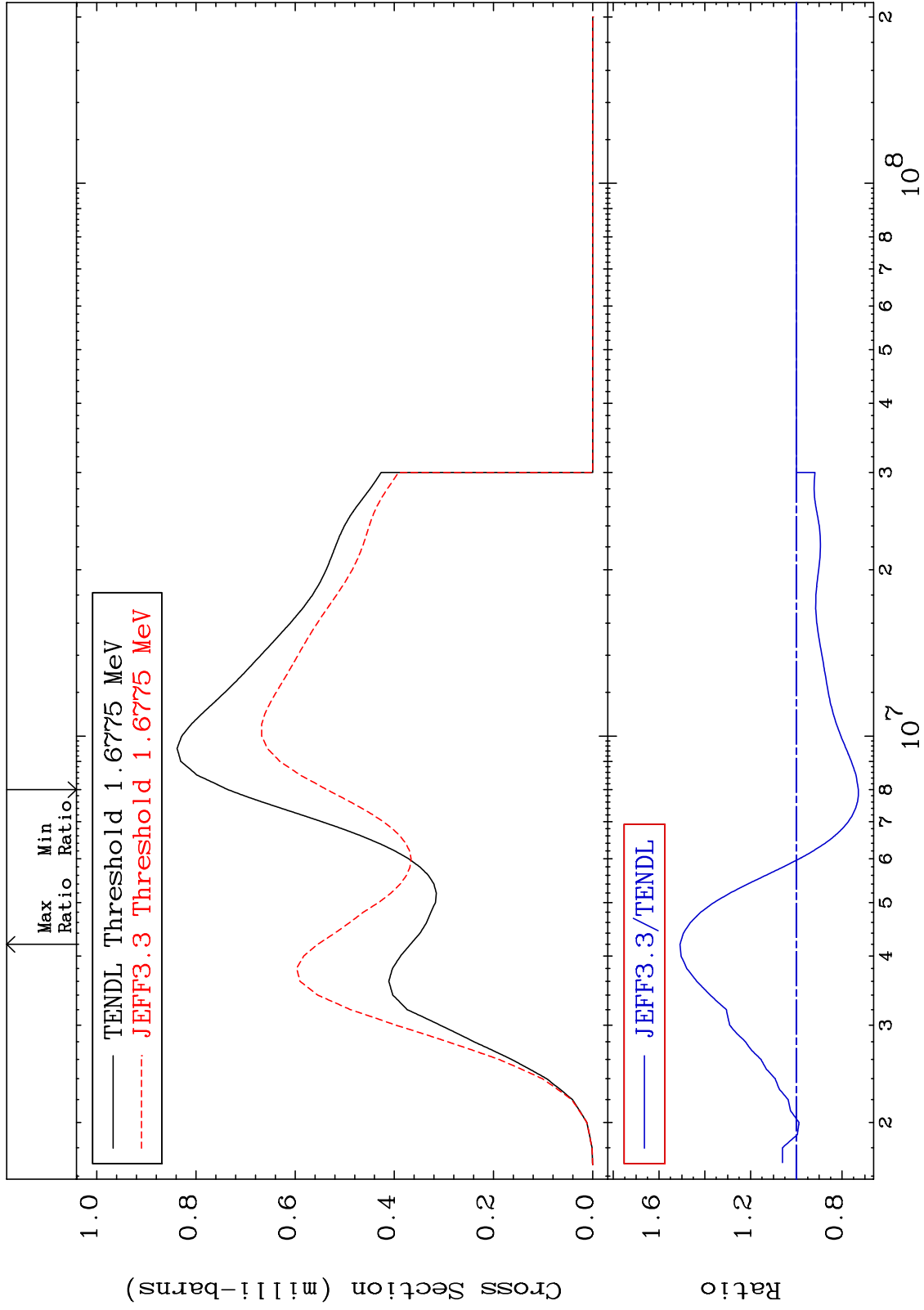
Incident Energy (eV)

62-Sm-152

MAT 6249

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

62-Sm-152
-27.13 To 50.81 %



48

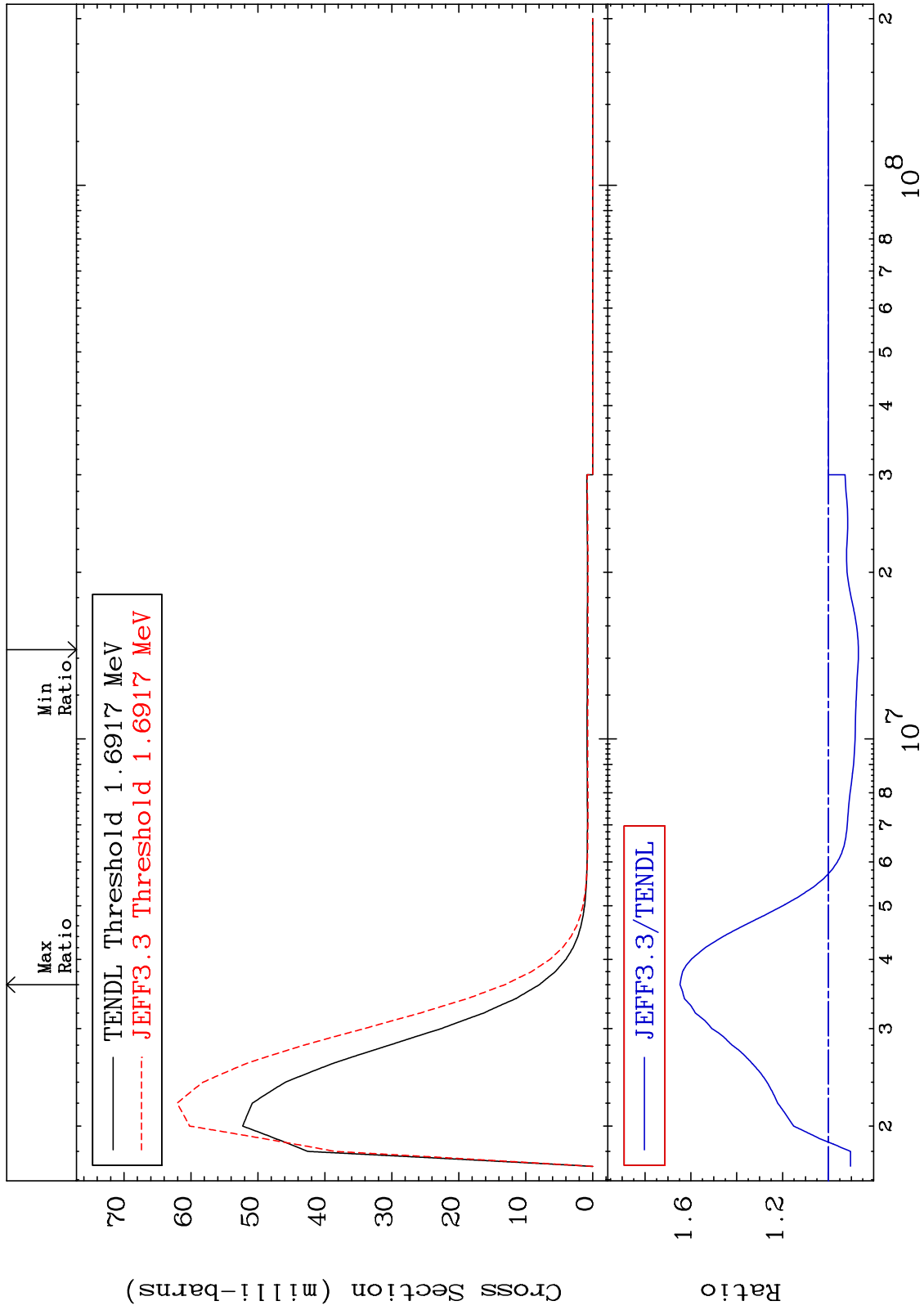
Incident Energy (eV)

62-Sm-152

MAT 6249

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

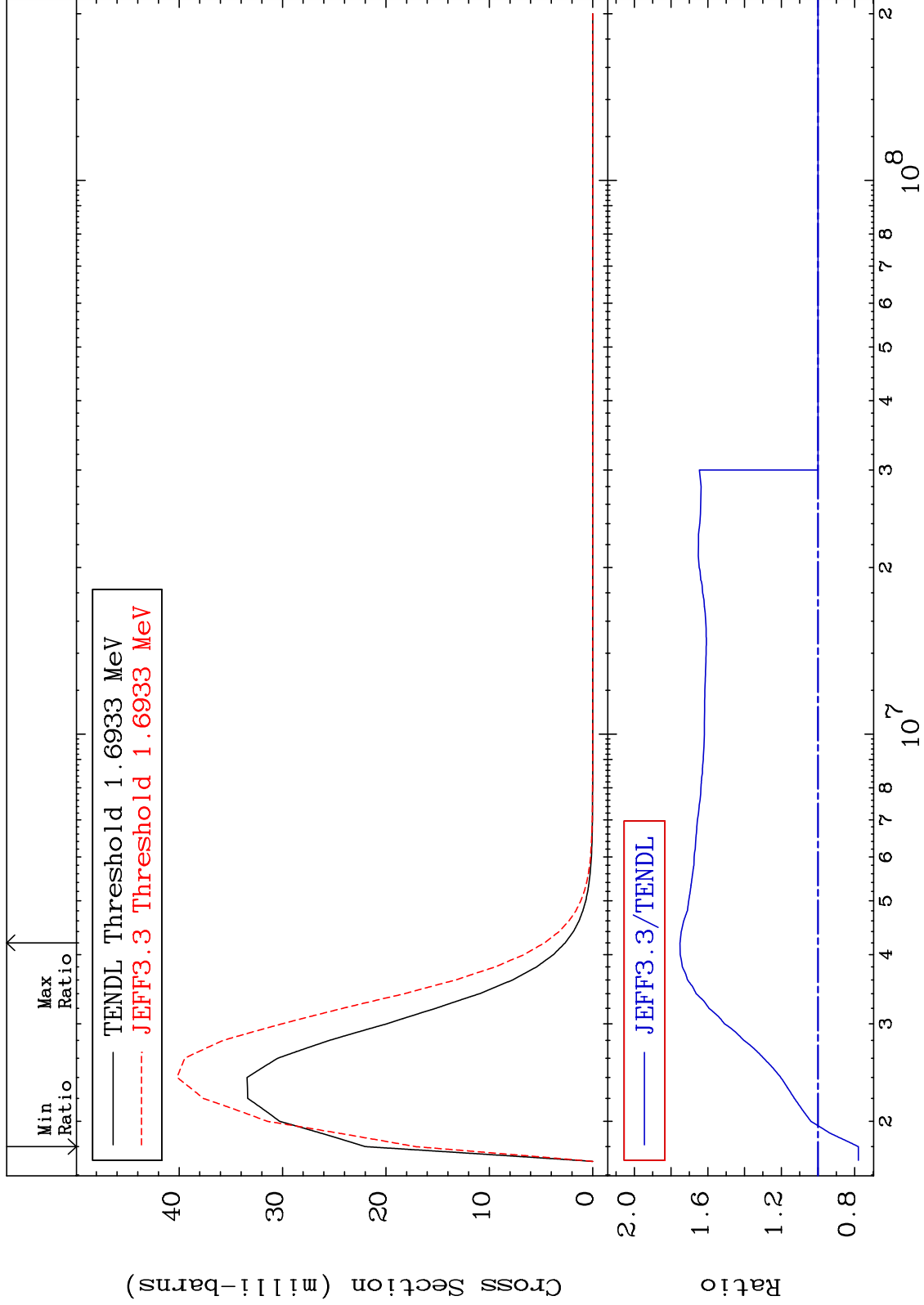
62-Sm-152
-13.09 To 64.75 %



MAT 6249

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

62-Sm-152
-21.99 To 75.13 %



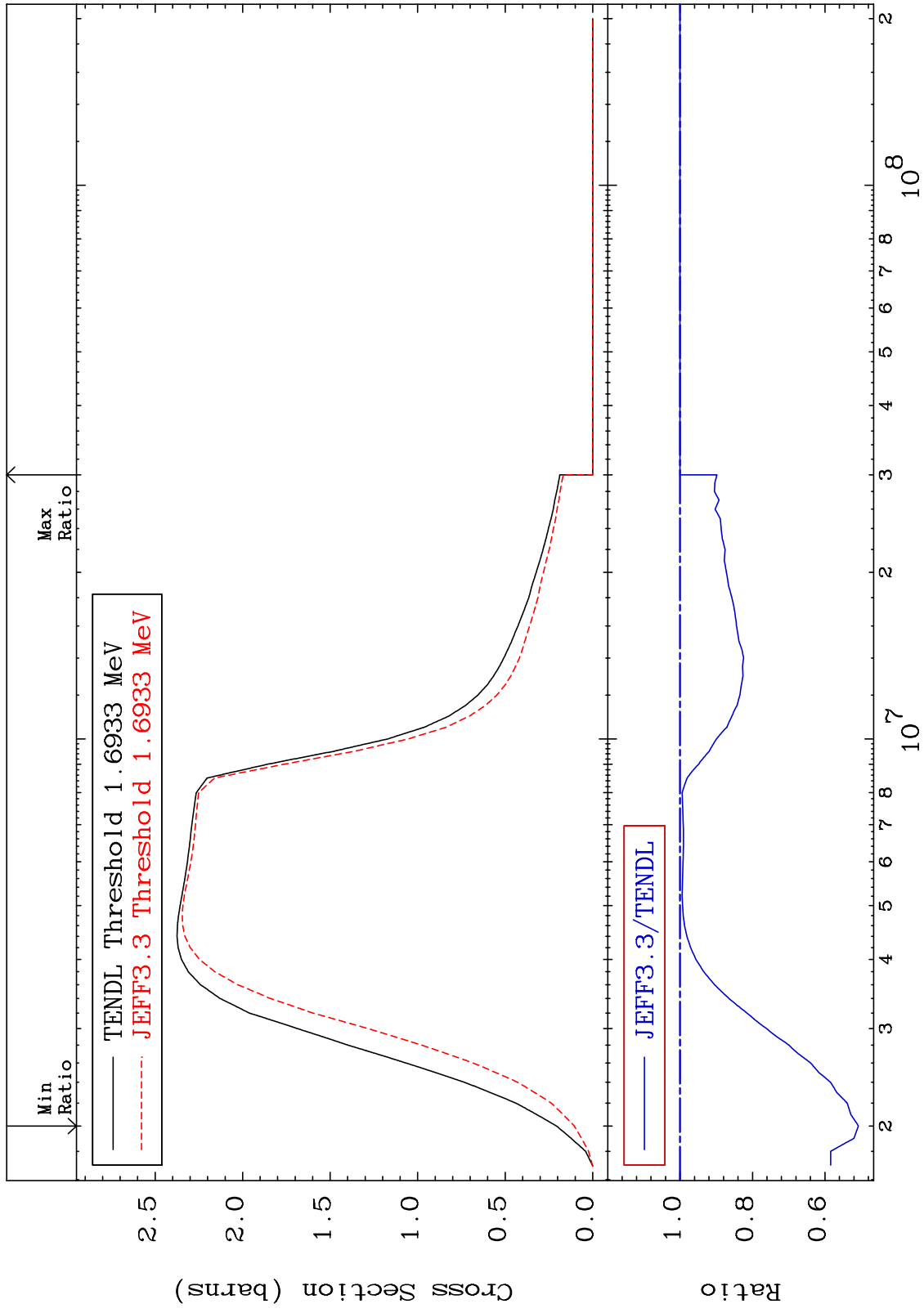
50

62-Sm-152

MAT 6249

(n, n') Continuum
Cross Section

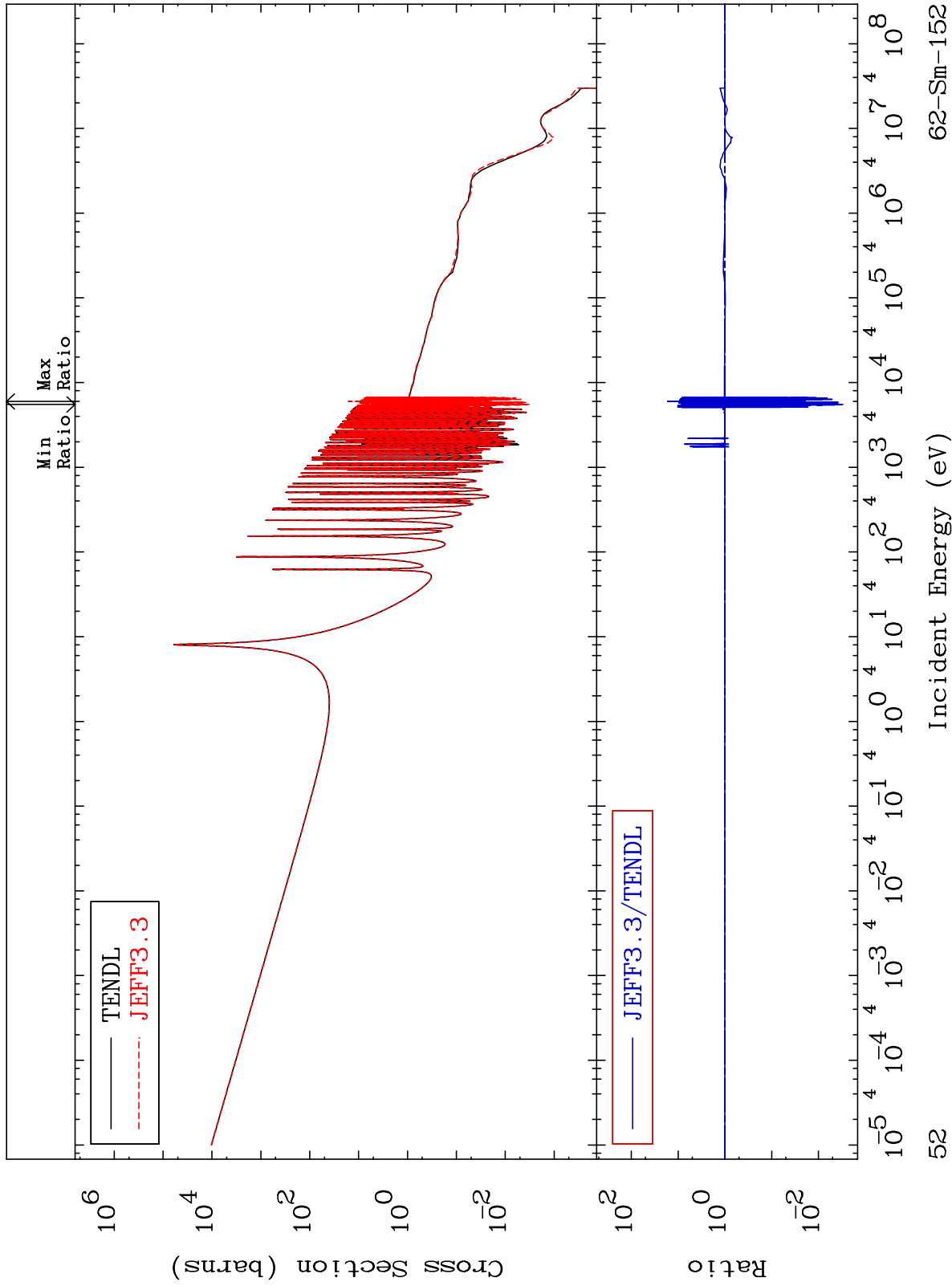
62-Sm-152
-49.24 To 0.000 %



MAT 6249

(n, γ)
Cross Section

62-Sm-152
-99.70 To 1585. %



52

62-Sm-152

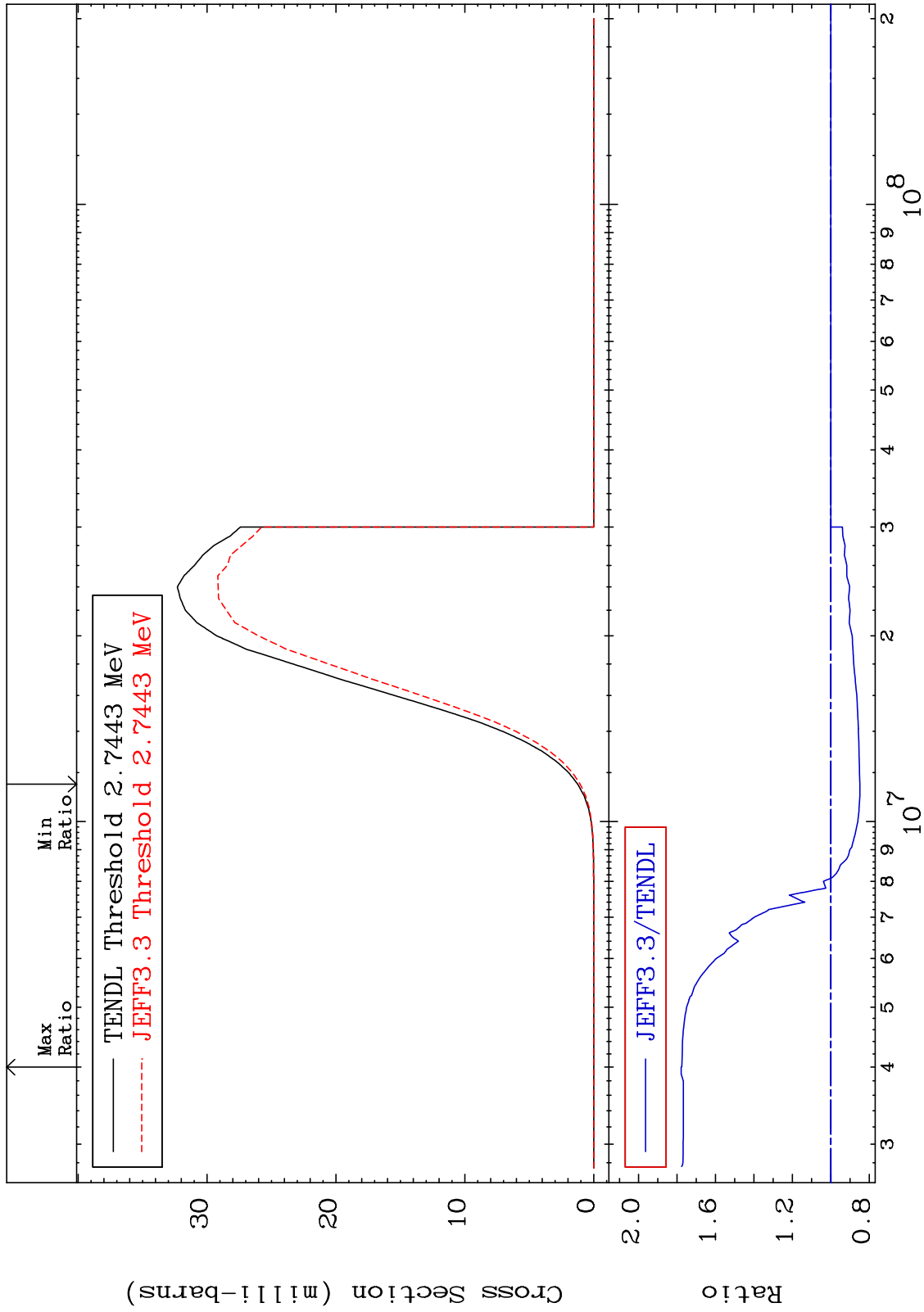
MAT 6249

(n, p)

62-Sm-152

Cross Section

-15.14 To 77.85 %



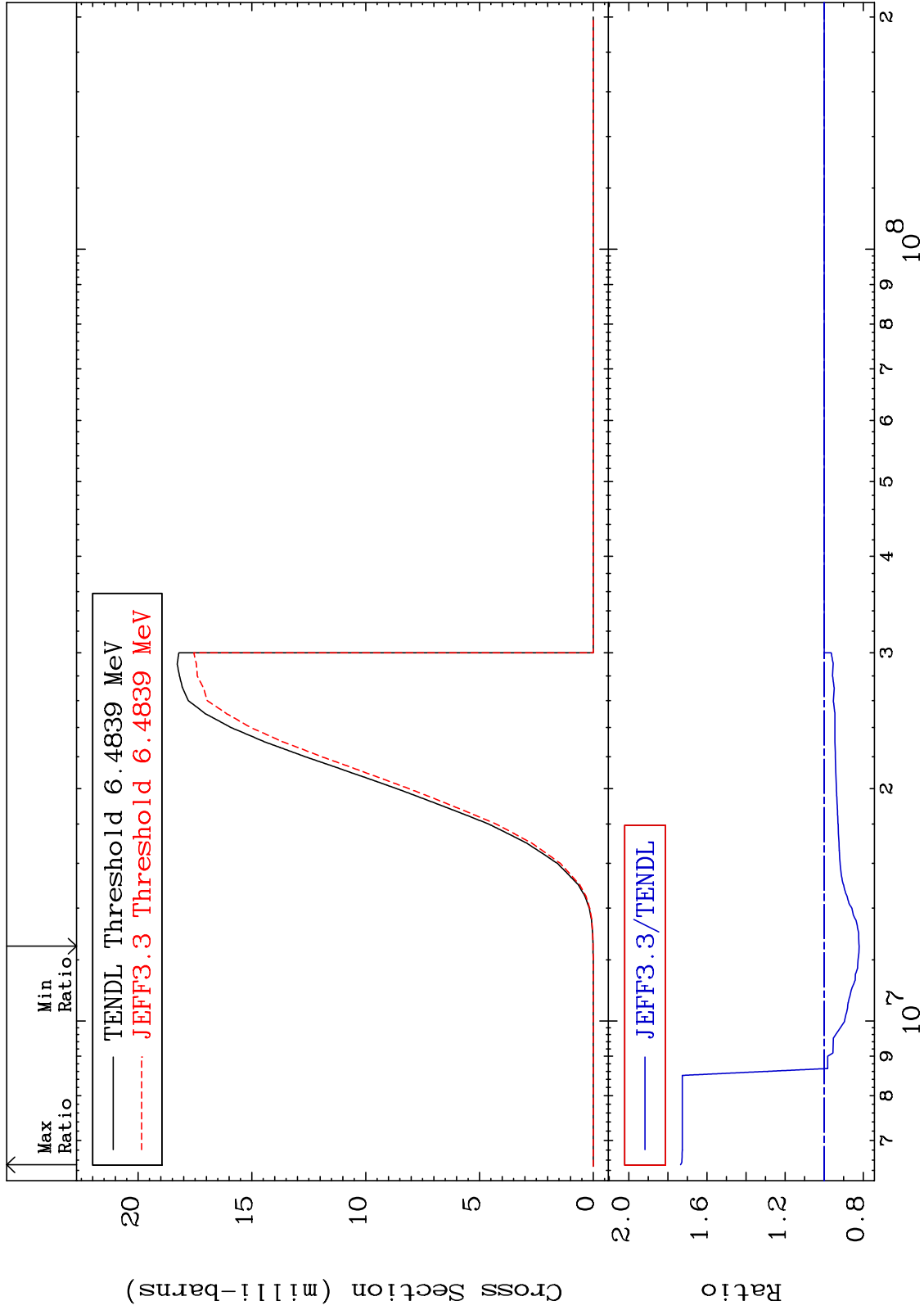
MAT 6249

(n, d)

62-Sm-152

Cross Section

-17.90 To 73.47 %



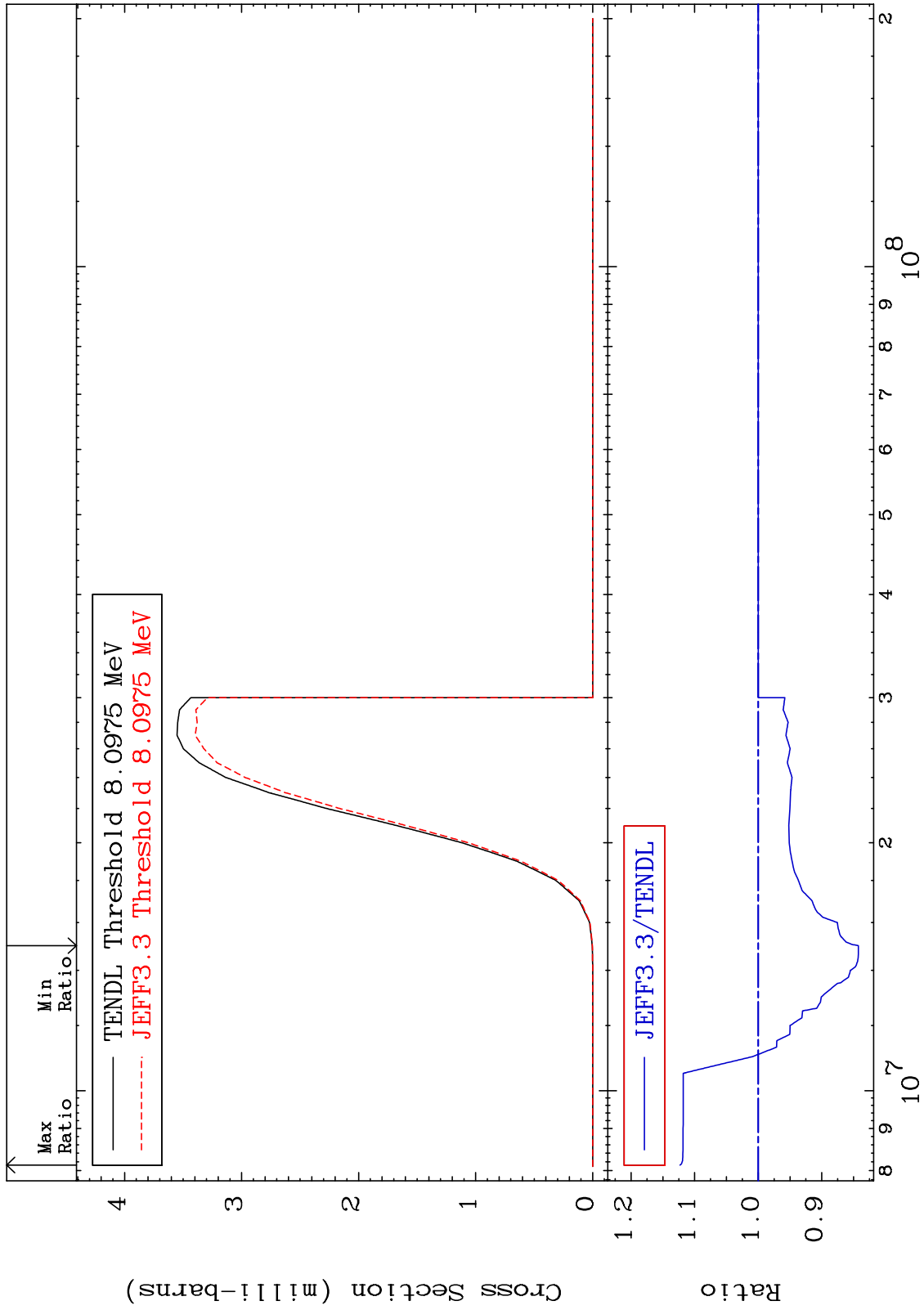
MAT 6249

(n, t)

62-Sm-152

Cross Section

-15.76 To 12.30 %



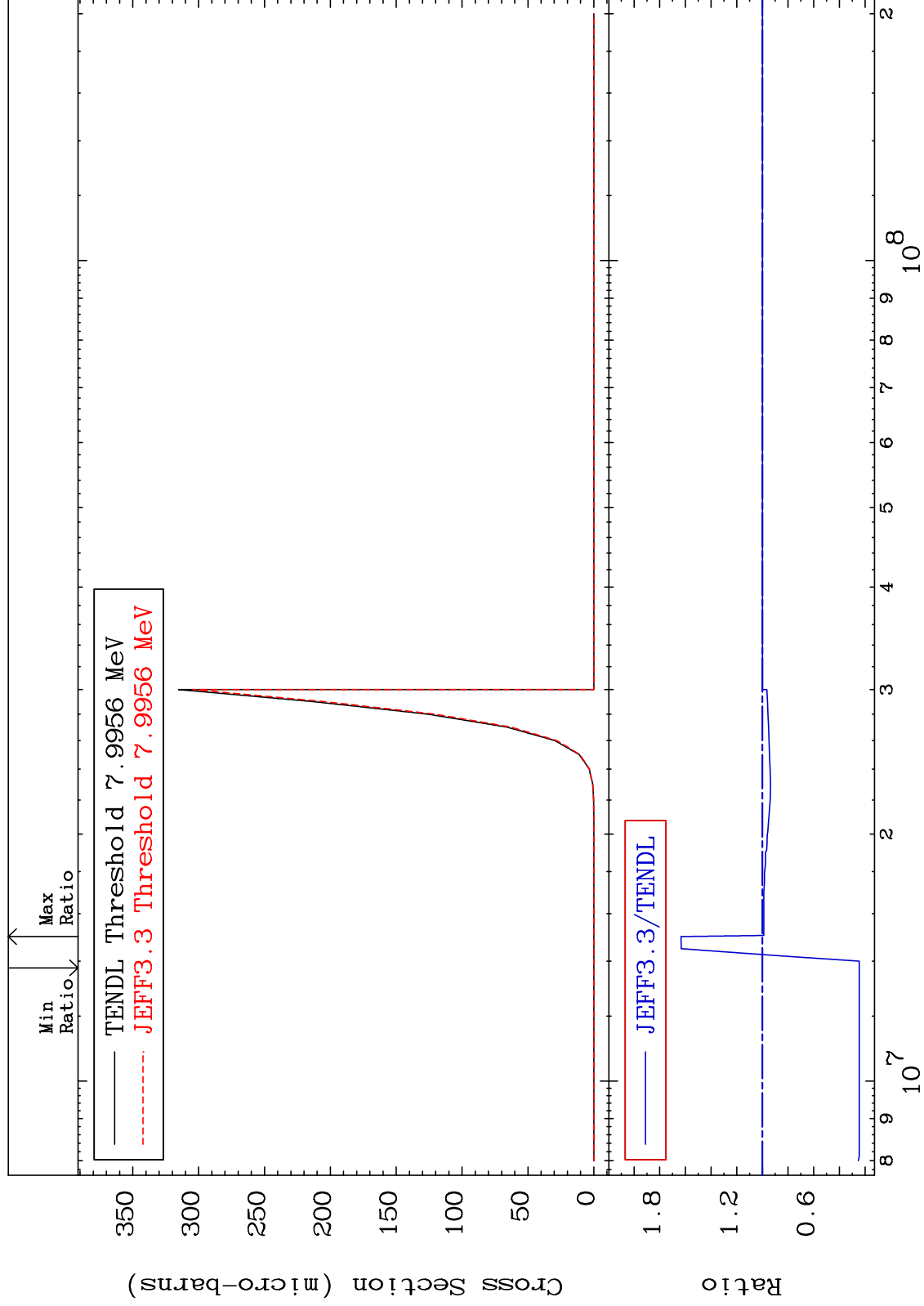
MAT 6249

(n, He-3)

62-Sm-152

Cross Section

-75.50 To 63.38 %



56

Incident Energy (eV)

62-Sm-152

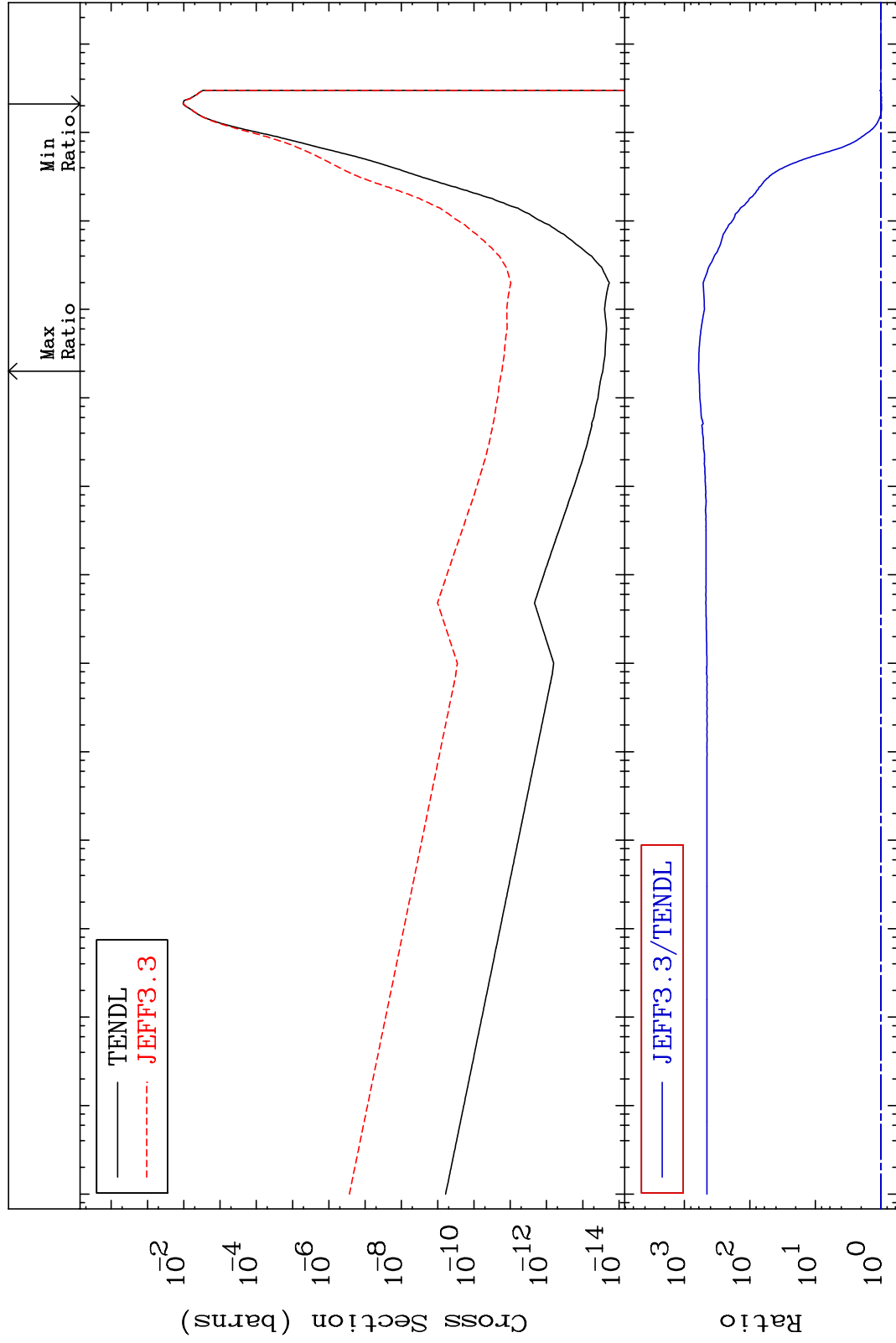
MAT 6249

(n, α)

62-Sm-152

Cross Section

-2.664 To 9999. %



57

Incident Energy (eV)

62-Sm-152

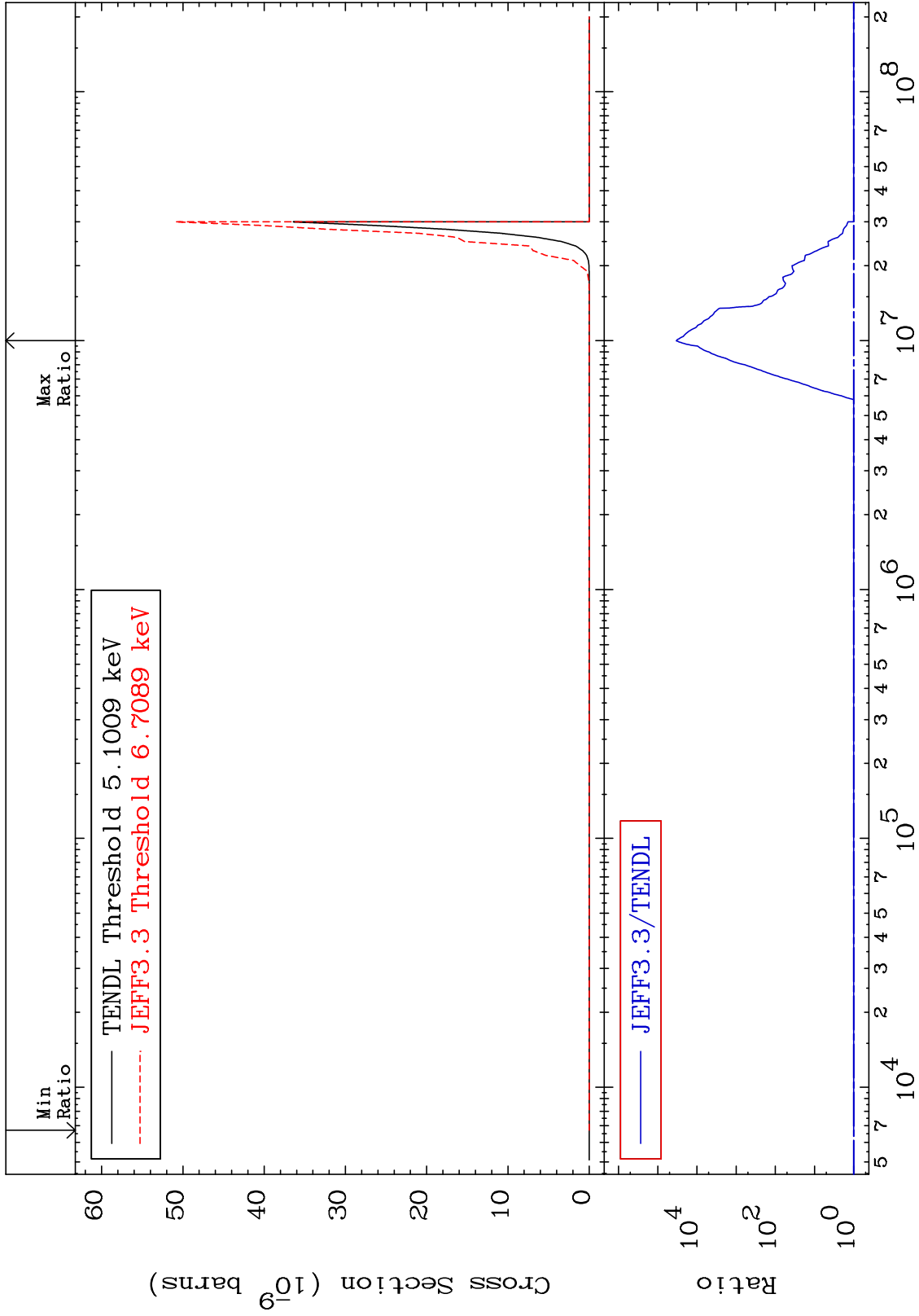
MAT 6249

(n, 2α)

62-Sm-152

Cross Section

0.000 To 9999. %



58

Incident Energy (eV)

62-Sm-152

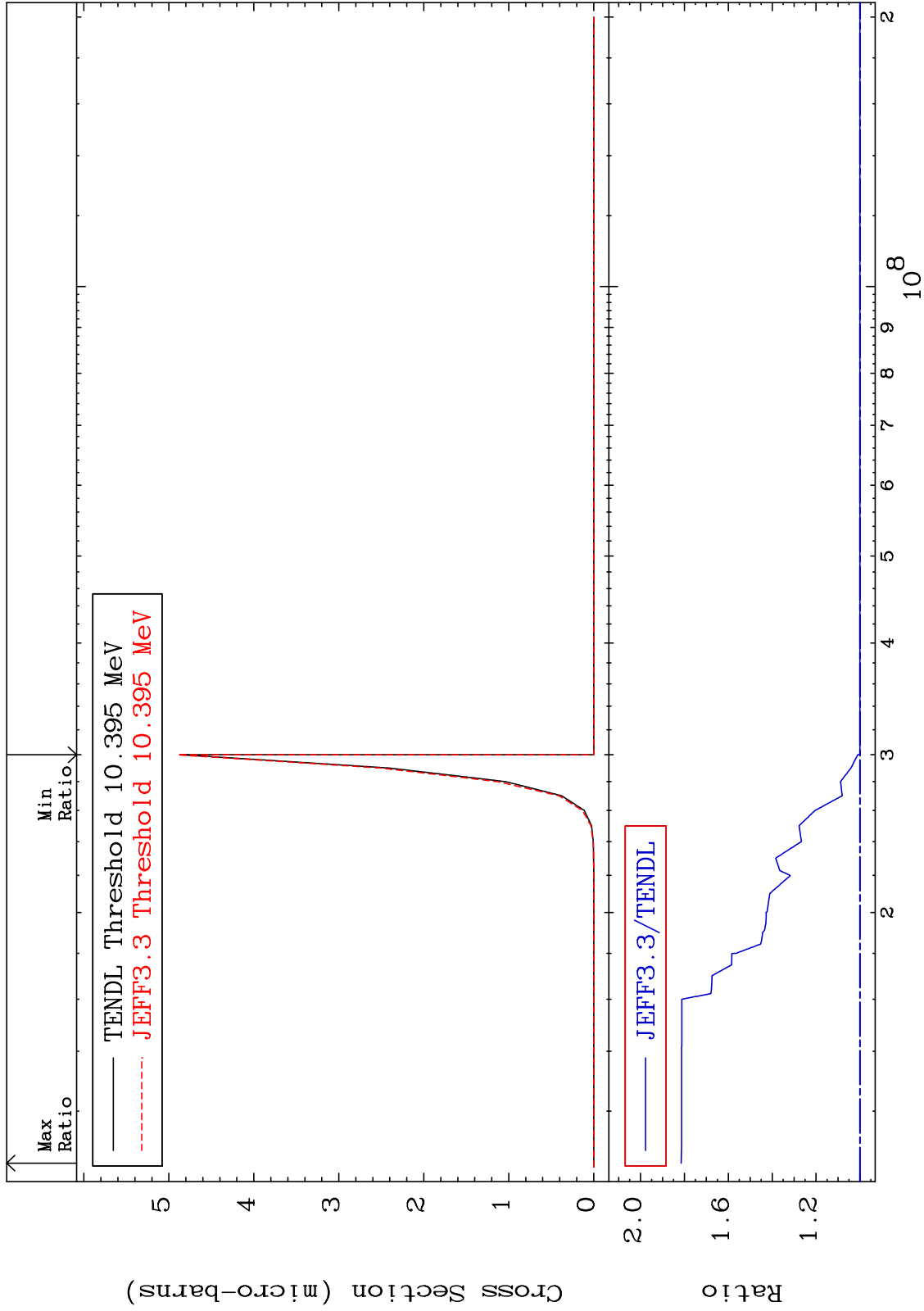
MAT 6249

(n,2p)

62-Sm-152

Cross Section

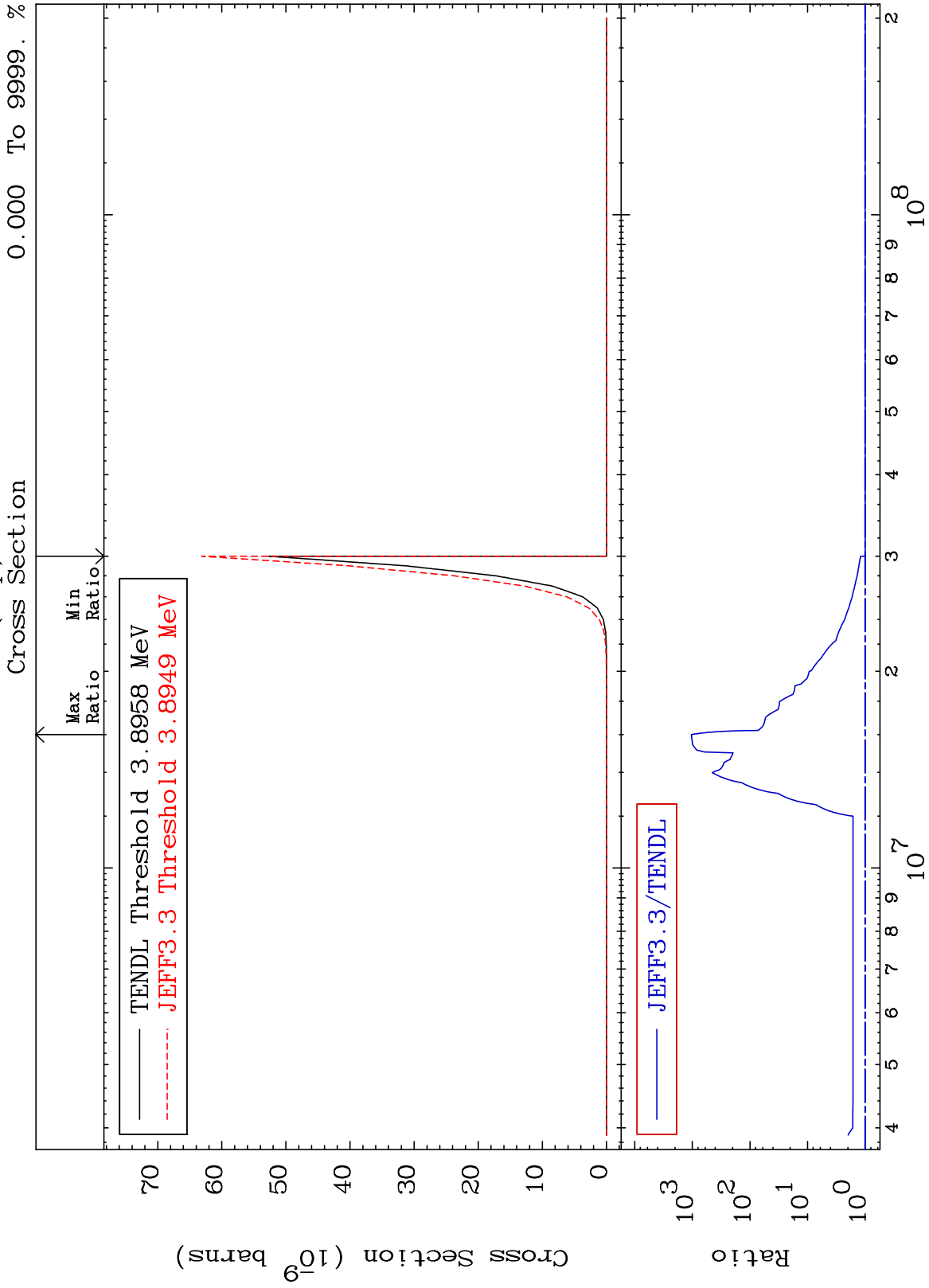
0.000 To 81.47 %



MAT 6249

(n,p) α

62-Sm-152
To 9999. %
0.000



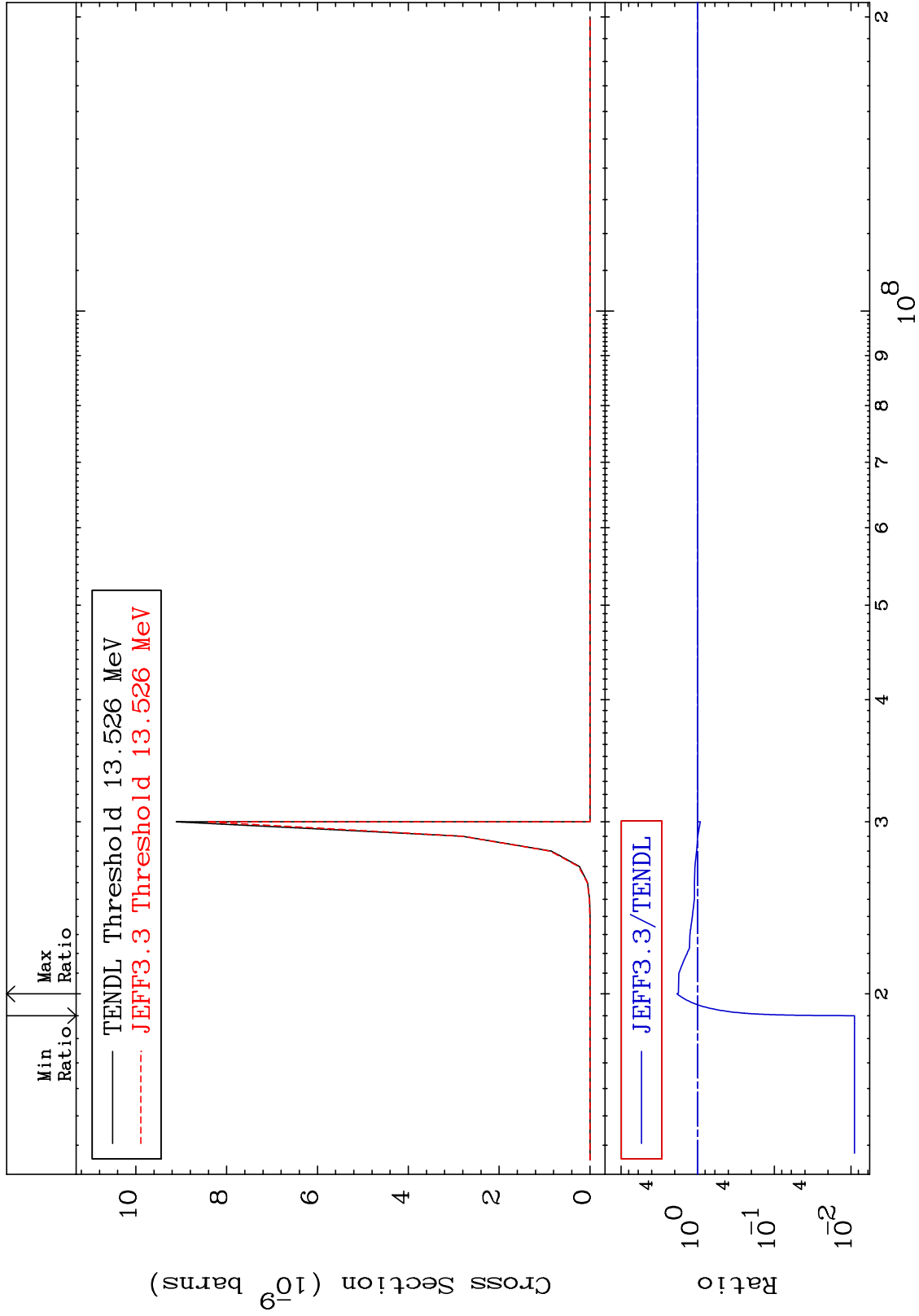
MAT 6249

(n,p) d

62-Sm-152

Cross Section

-99.10 To 86.97 %



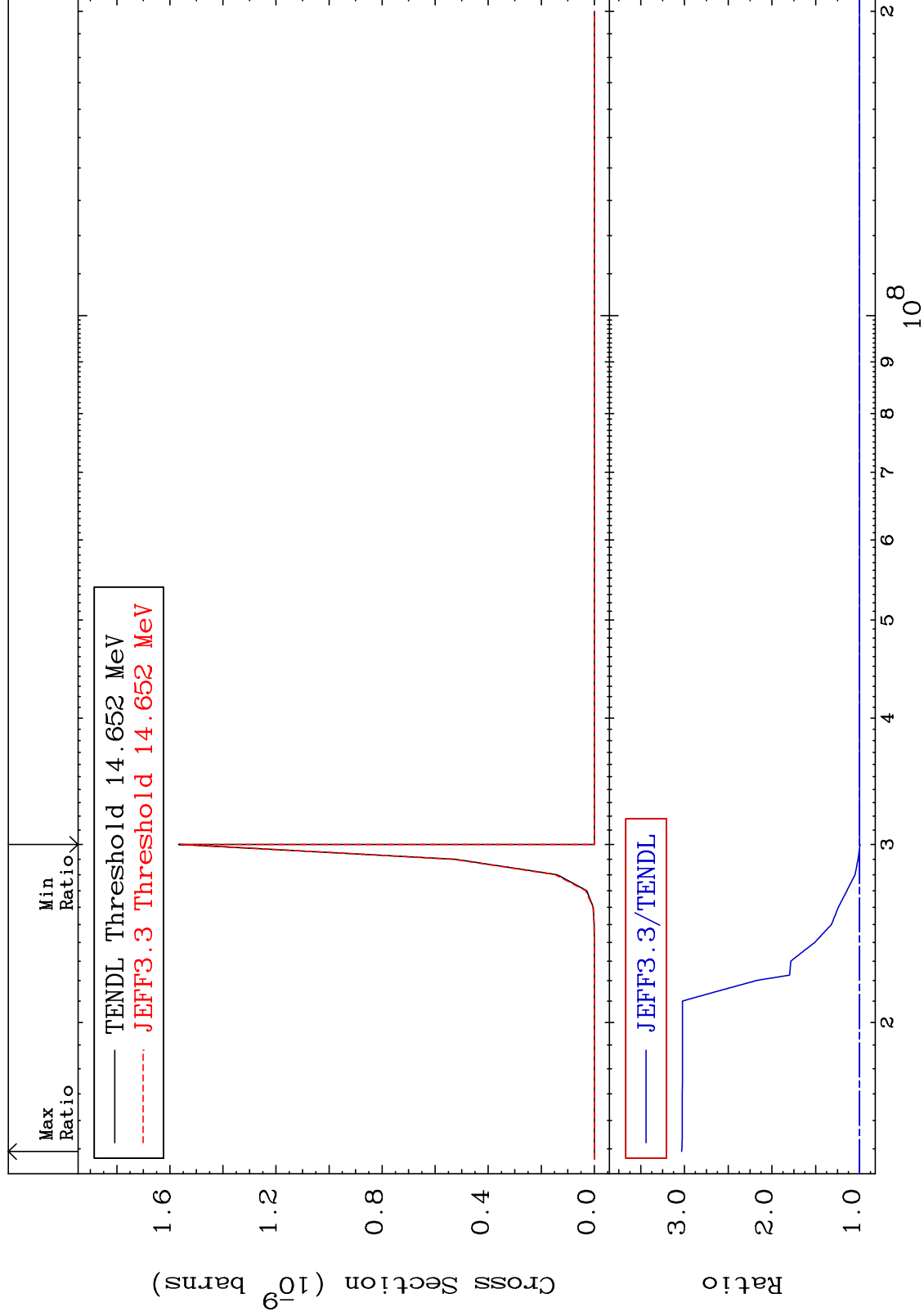
MAT 6249

(n,p) t

62-Sm-152

Cross Section

-0.641 To 203.2 %



62

Incident Energy (eV)

62-Sm-152

MAT 6249

(n,d) α

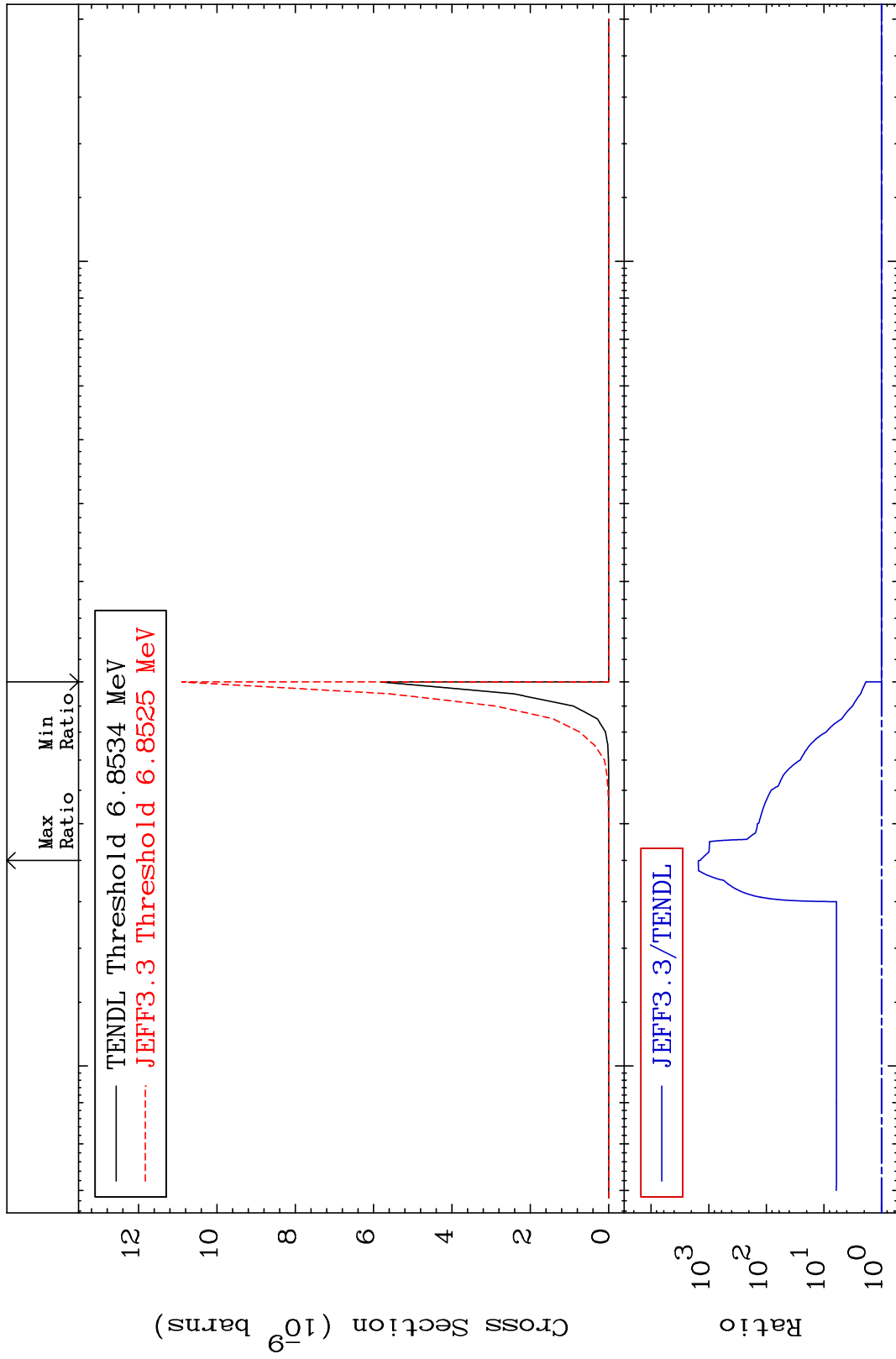
62-Sm-152

Cross Section

Cross Section

0.000

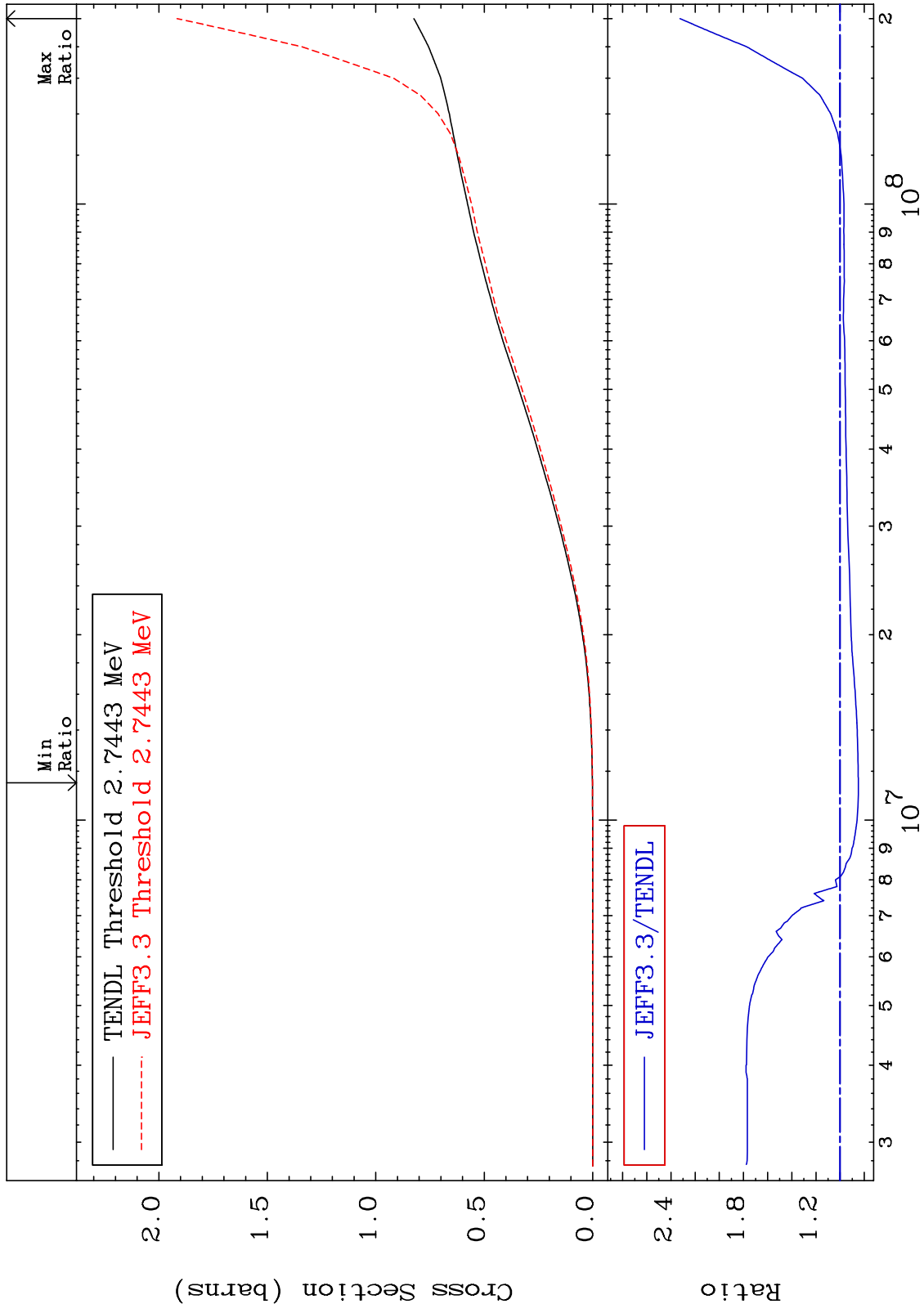
To 9999. %



MAT 6249

Hydrogen Production
Cross Section

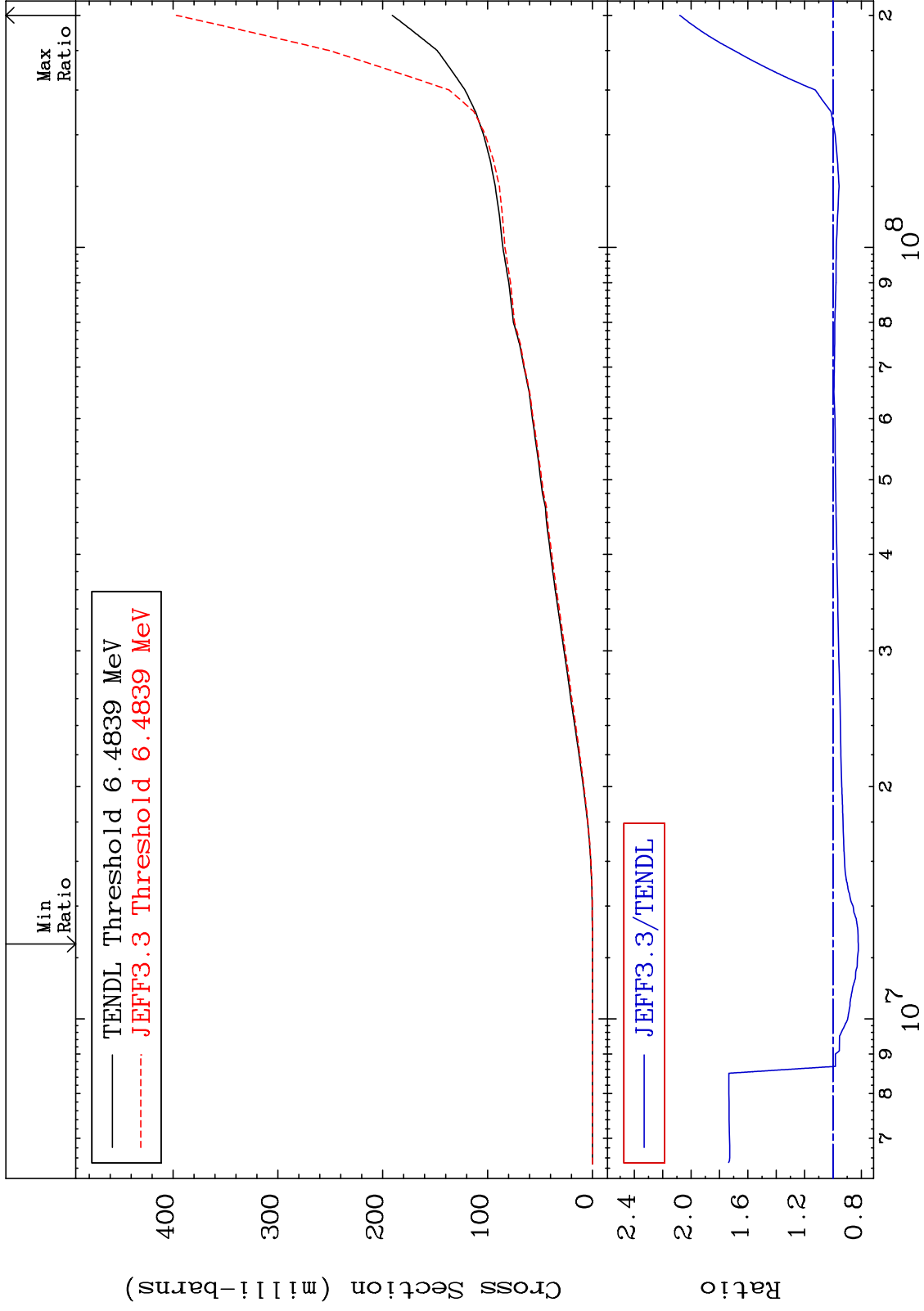
62-Sm-152
-15.14 To 132.5 %



MAT 6249

Deuterium Production
Cross Section

62-Sm-152
-17.90 To 107.9 %



65

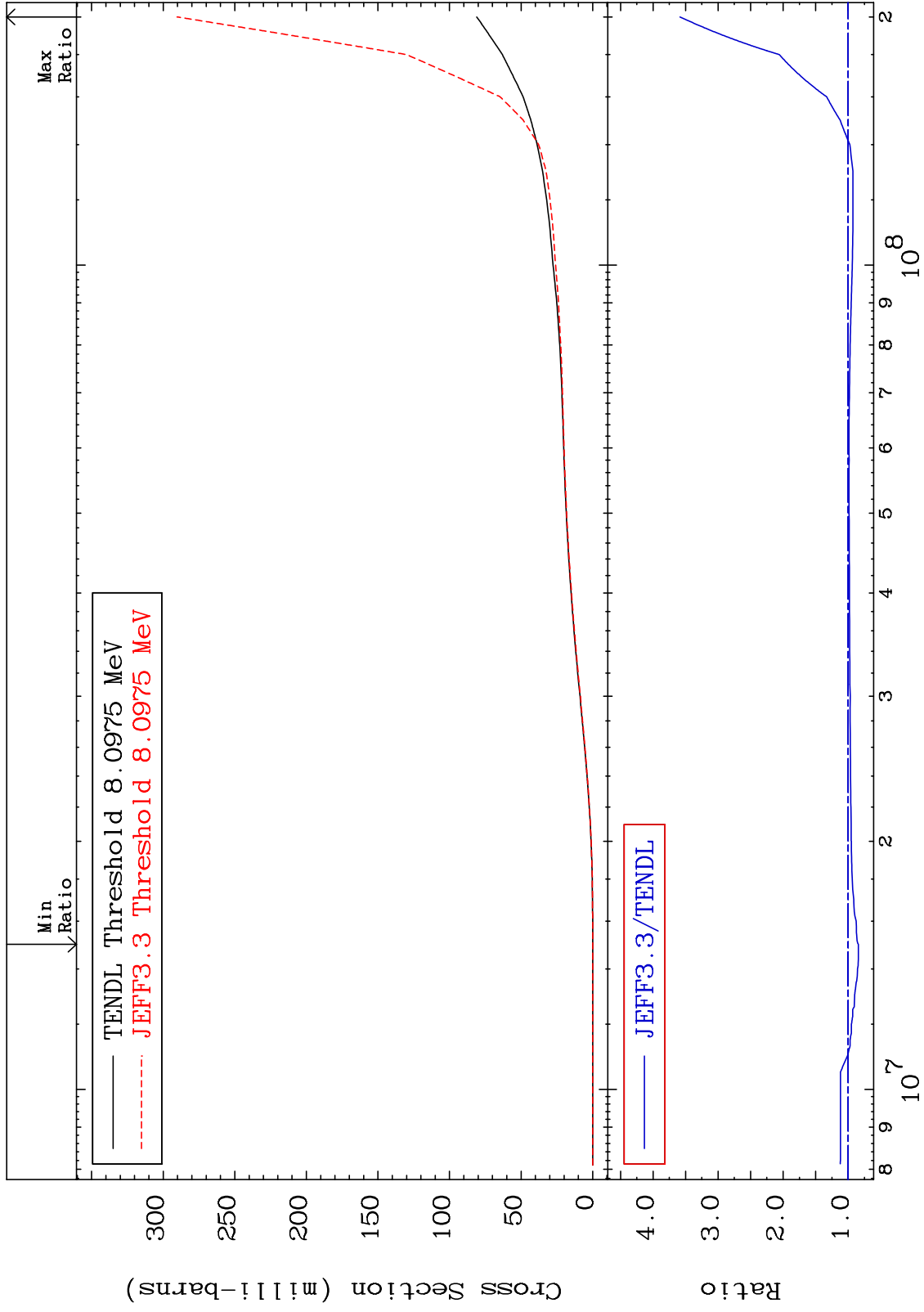
Incident Energy (eV)

62-Sm-152

MAT 6249

Tritium Production
Cross Section

62-Sm-152
-15.76 To 258.5 %



66

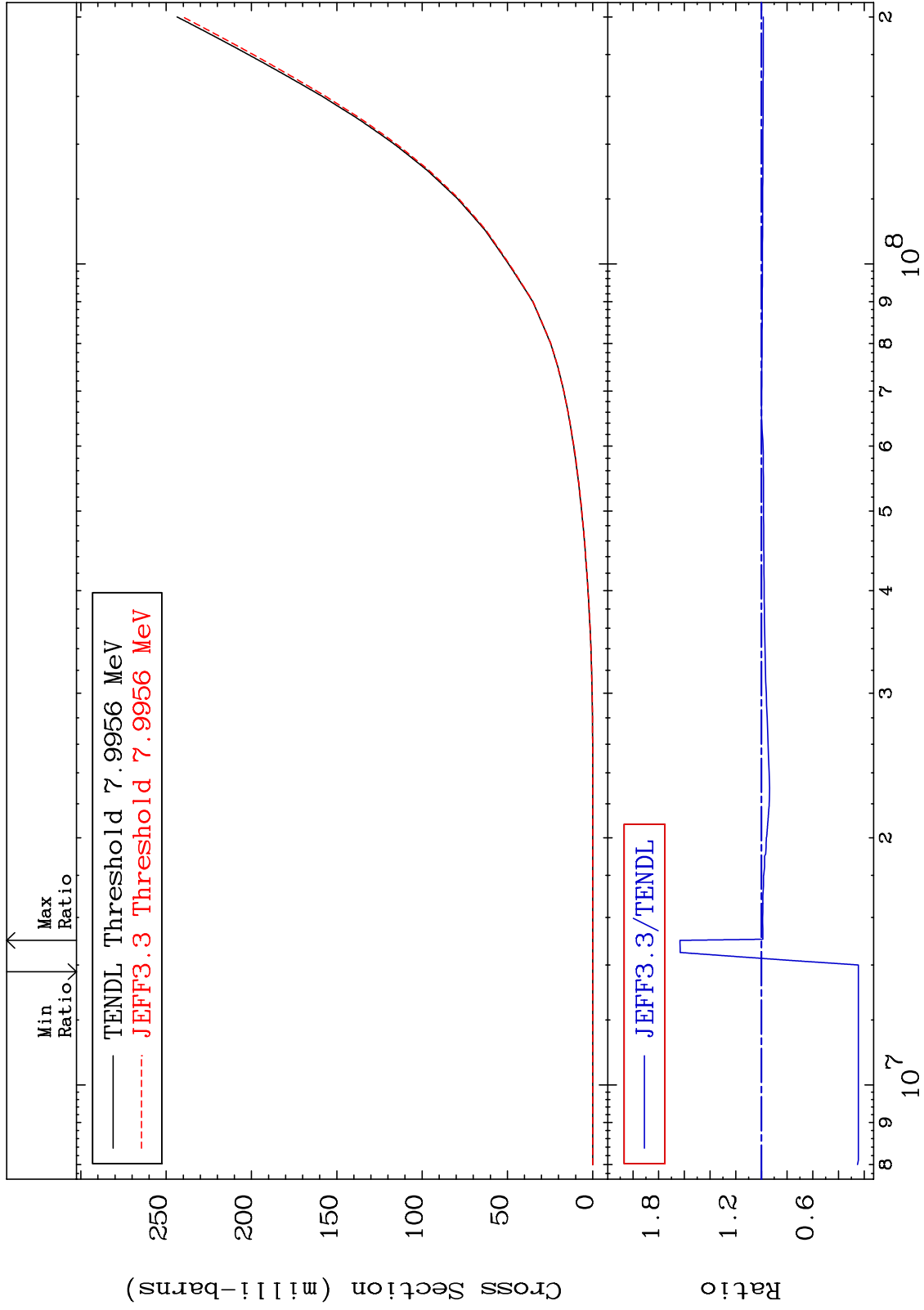
Incident Energy (eV)

62-Sm-152

MAT 6249

He-3 Production
Cross Section

62-Sm-152
-75.50 To 63.38 %



67

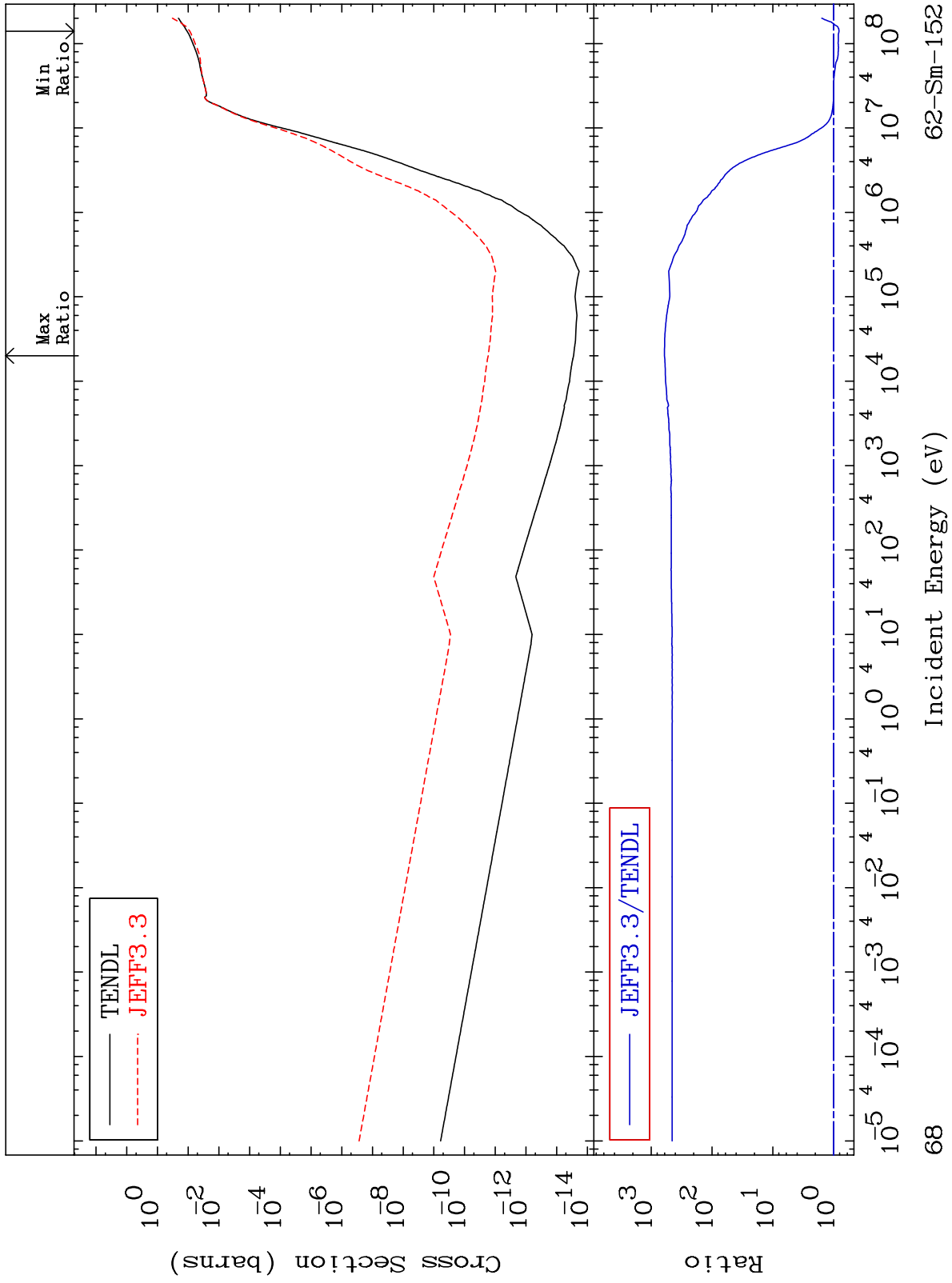
Incident Energy (eV)

62-Sm-152

MAT 6249

He-4 Production
Cross Section

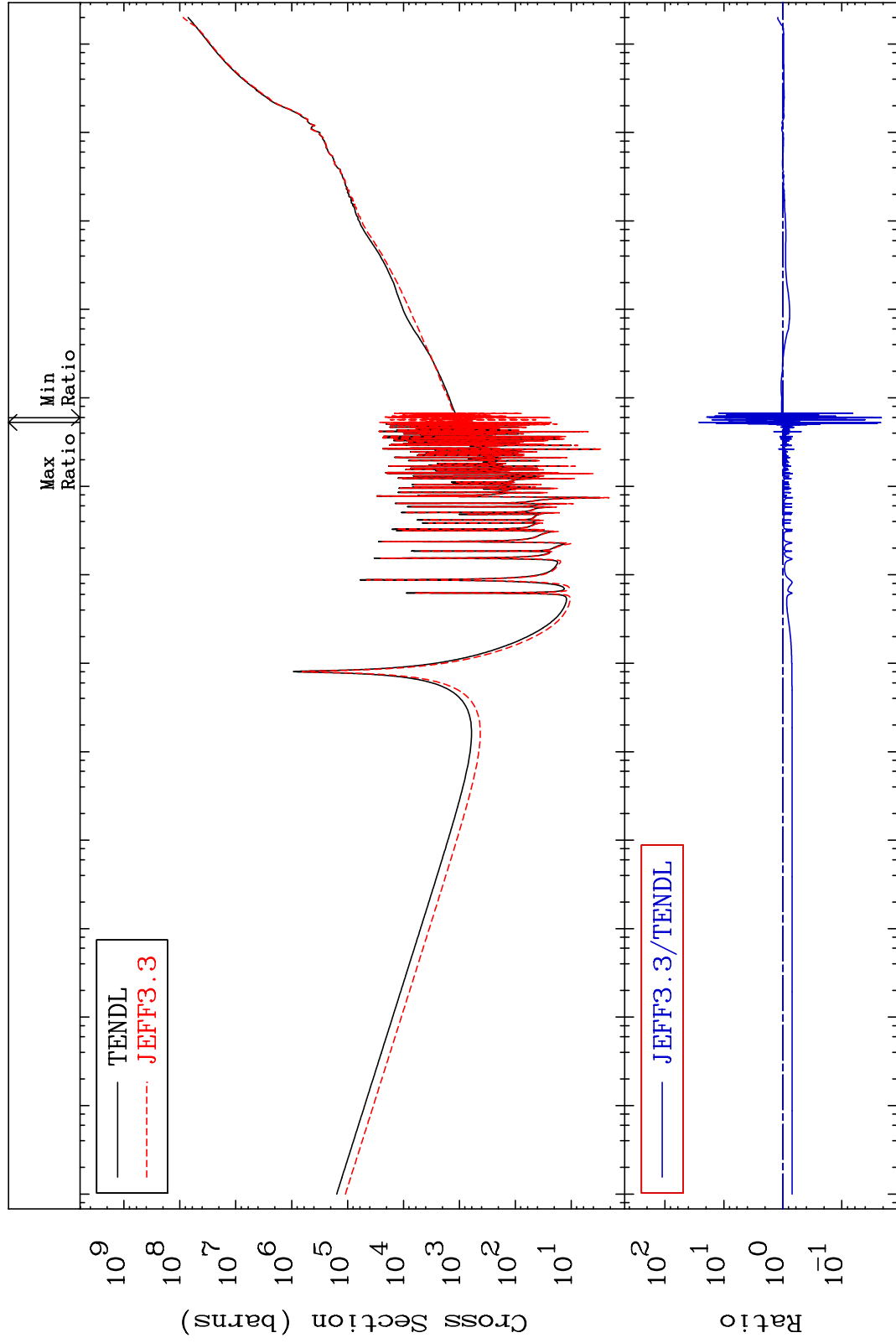
62-Sm-152
-18.22 To 9999. %



MAT 6249

Kerma total (eV-barns)
Cross Section

62-Sm-152
-97.88 To 2565. %



69

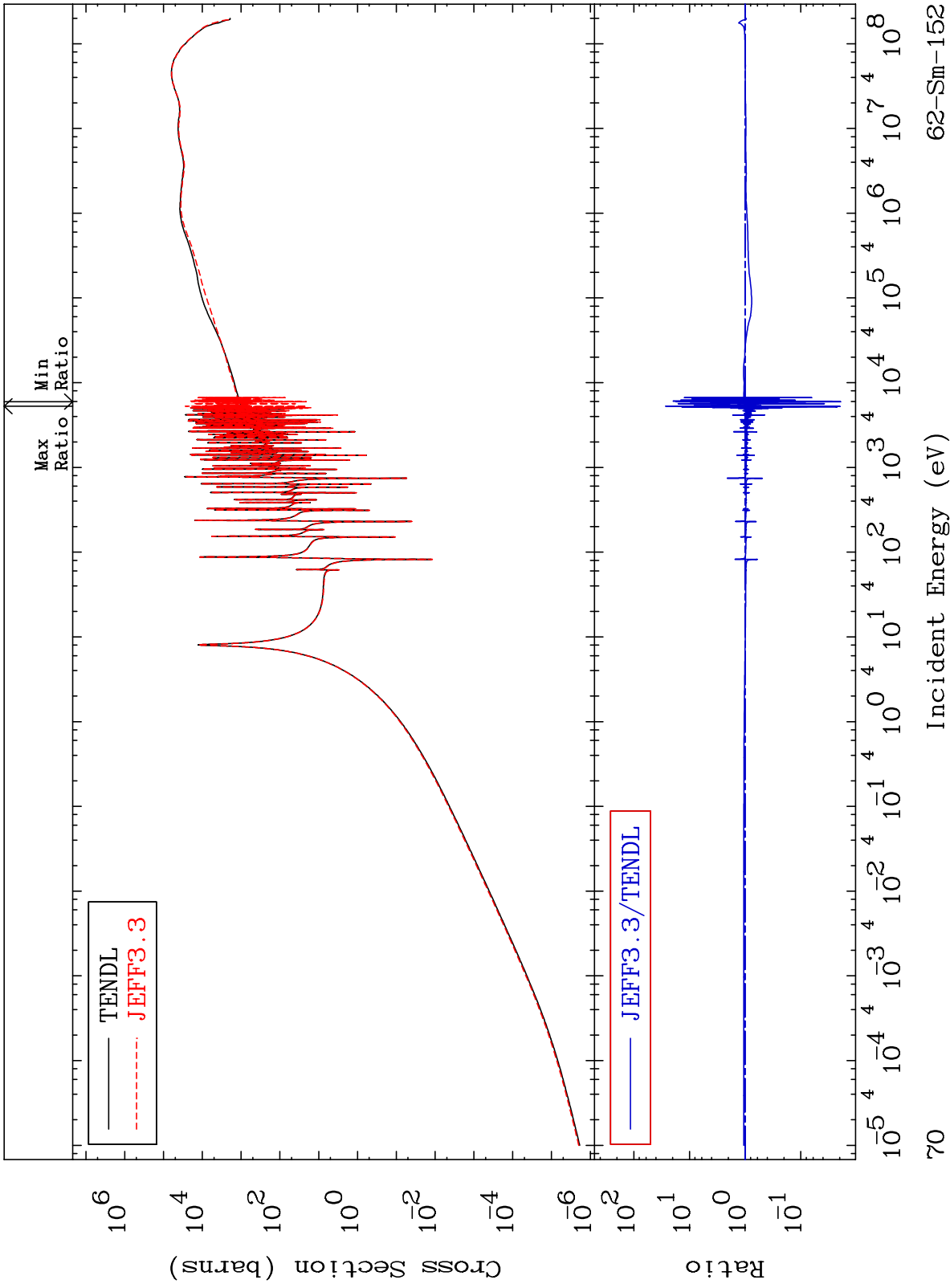
Incident Energy (eV)

62-Sm-152

MAT 6249

Kerma elastic
Cross Section

62-Sm-152
-98.07 To 2601. %



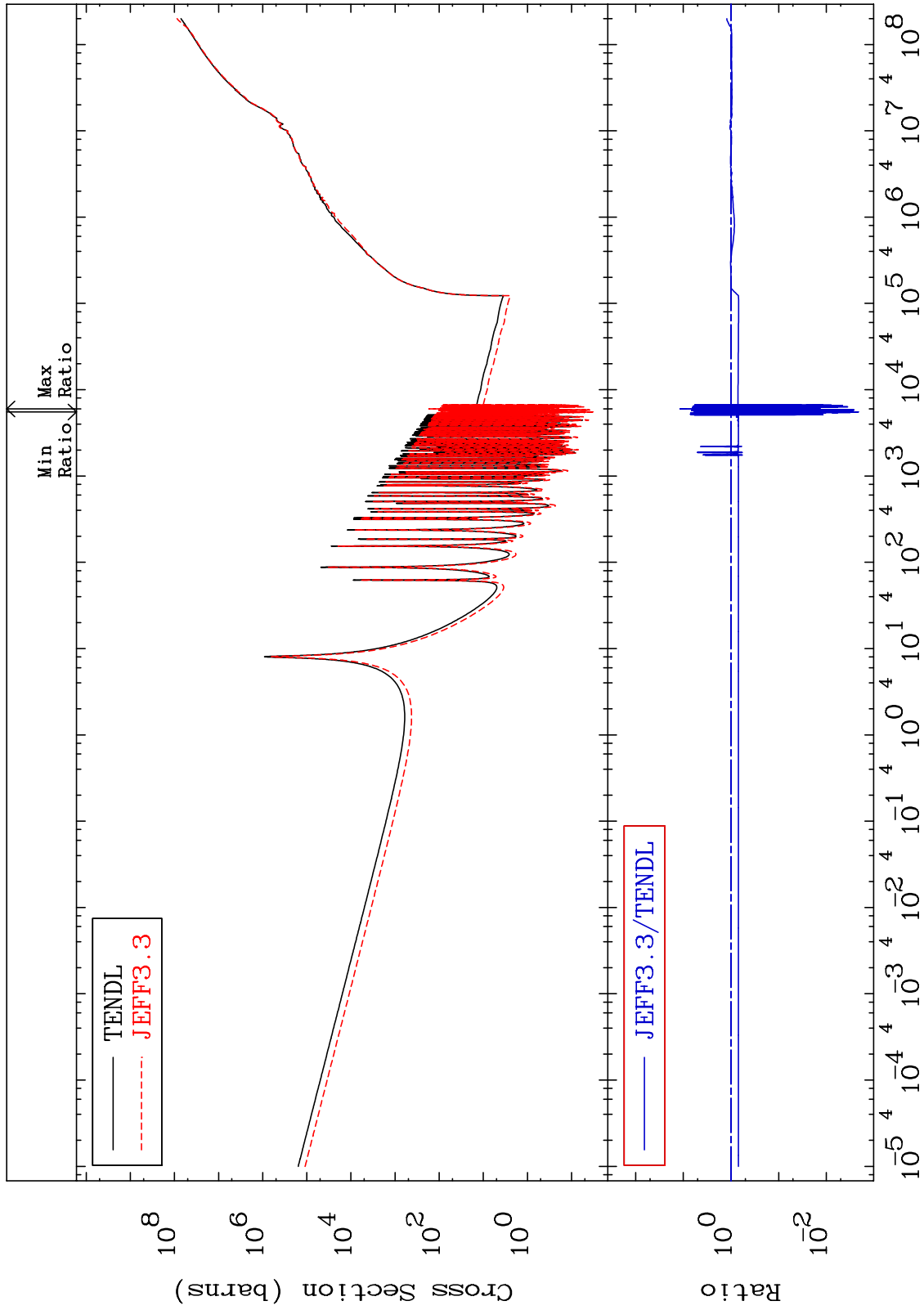
70

62-Sm-152

MAT 6249

Kerma non-elastic (all but mt2)
Cross Section

62-Sm-152
-99.79 To 1071. %



71

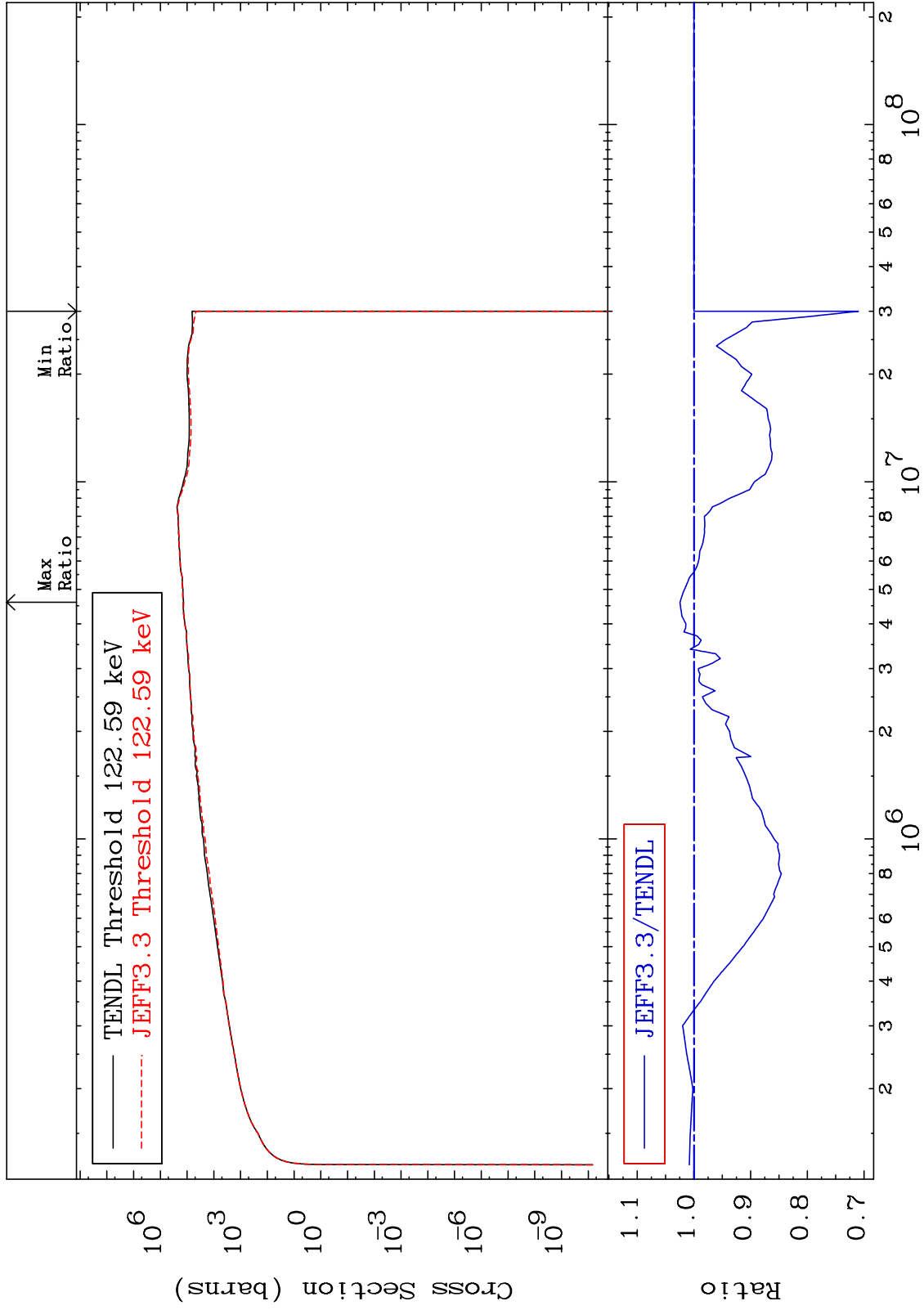
Incident Energy (eV)

62-Sm-152

MAT 6249

Kerma inelastic (mt51-91)
Cross Section

62-Sm-152
-29.01 To 2.460 %



72

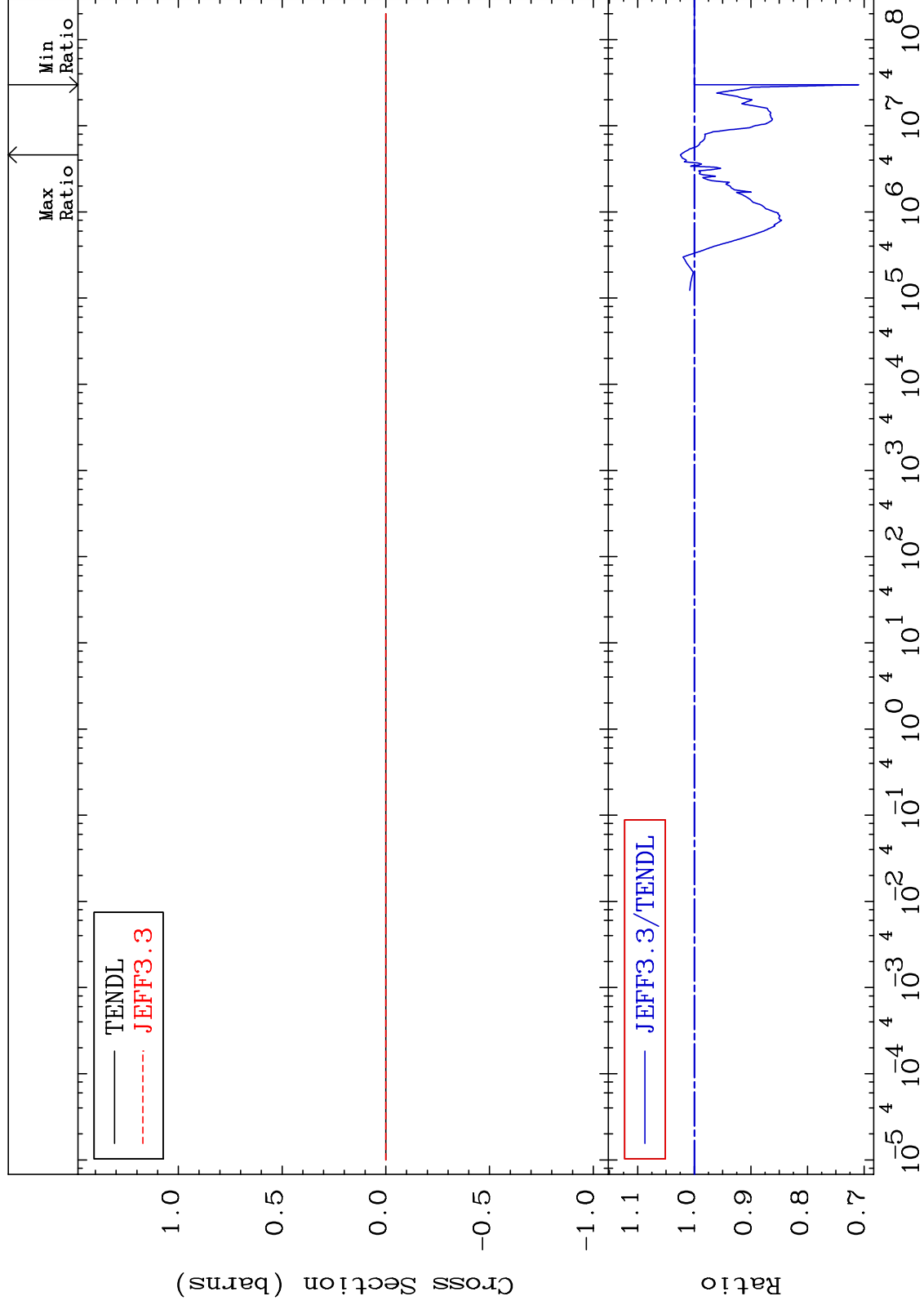
Incident Energy (eV)

62-Sm-152

MAT 6249

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

62-Sm-152
-29.01 To 2.460 %



73

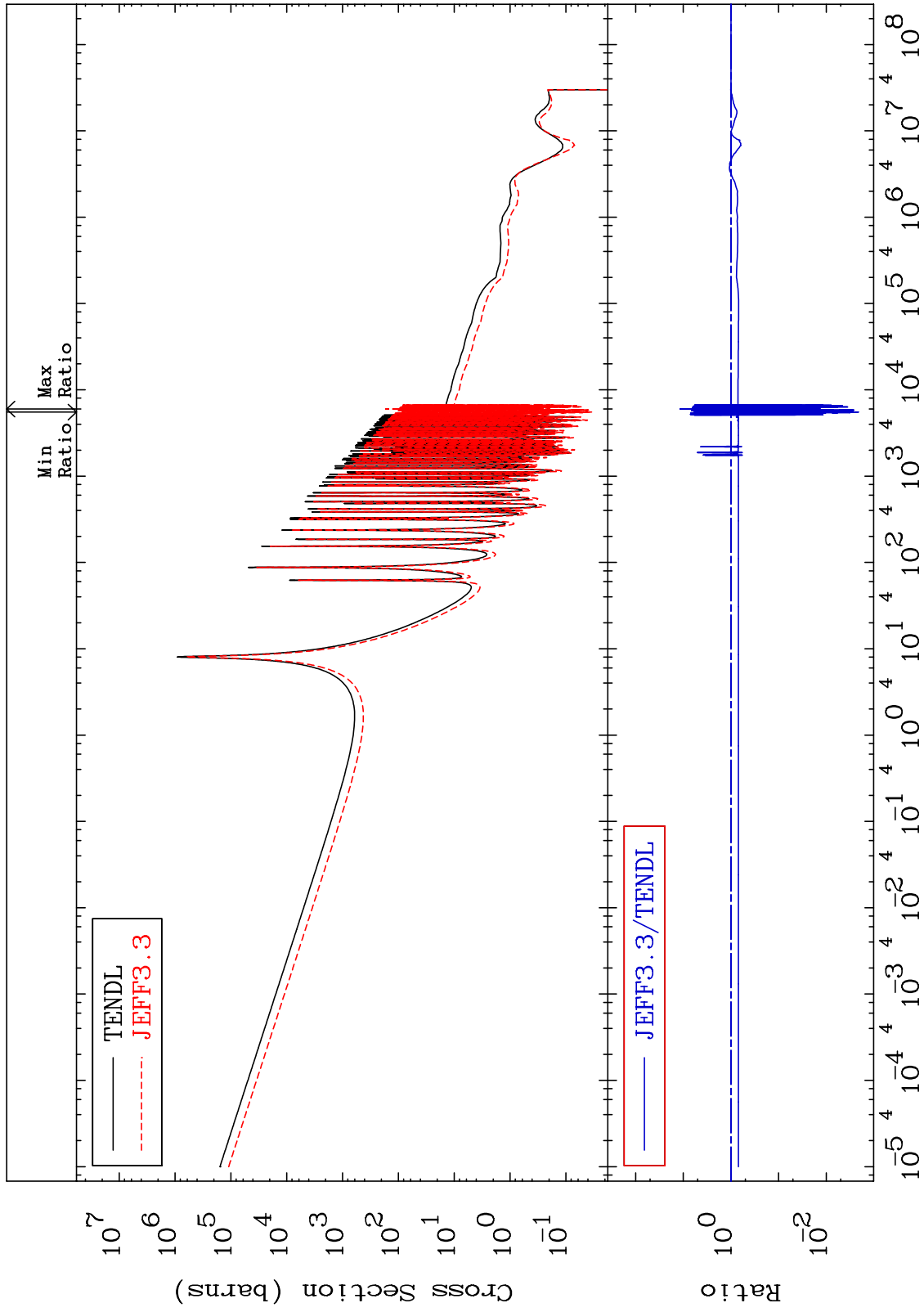
Incident Energy (eV)

62-Sm-152

MAT 6249

Kerma capture (mt102)
Cross Section

62-Sm-152
-99.79 To 1071. %



74

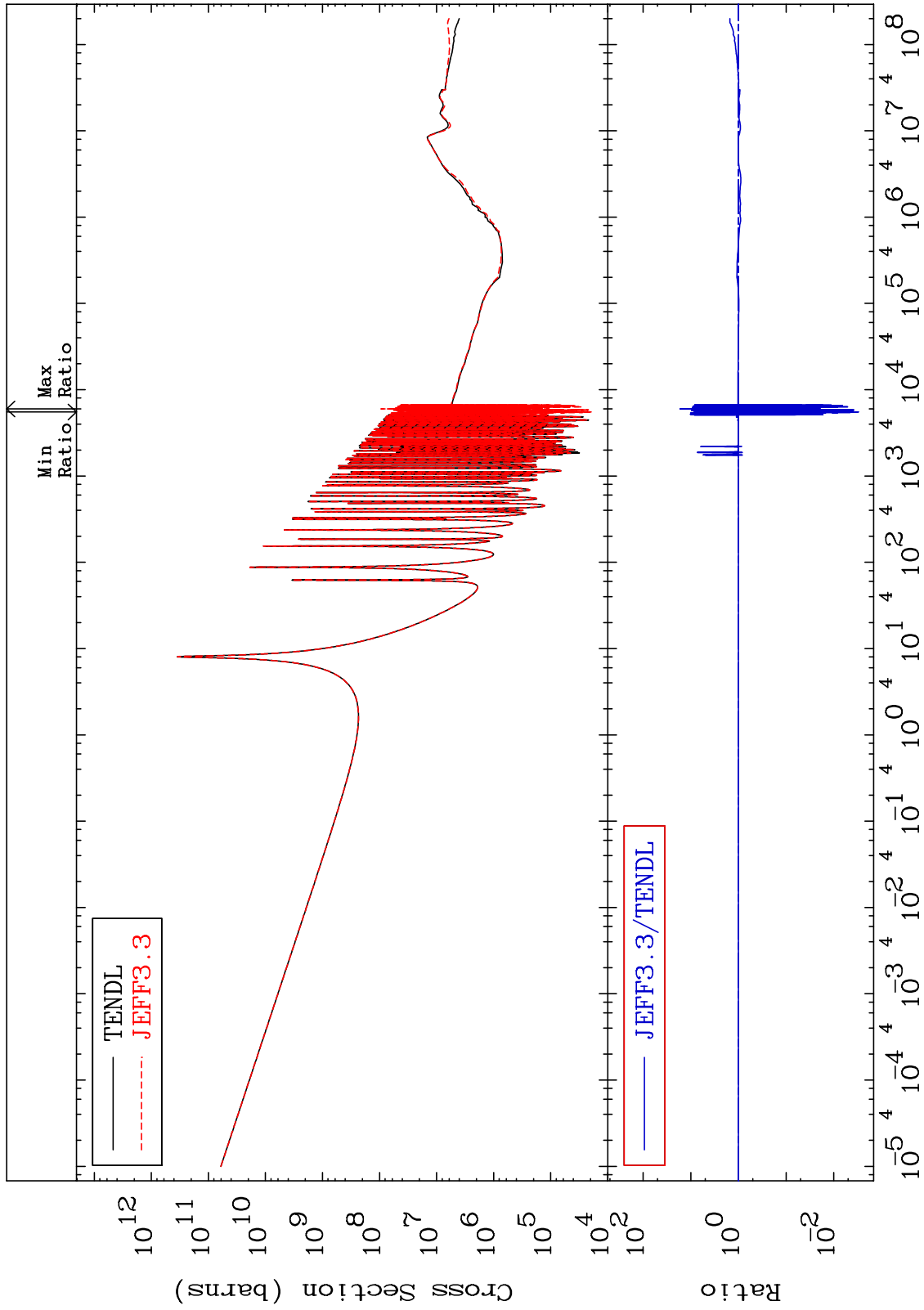
Incident Energy (eV)

62-Sm-152

MAT 6249

Total photon (eV-barns)
Cross Section

62-Sm-152
-99.70 To 1585. %



— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

75

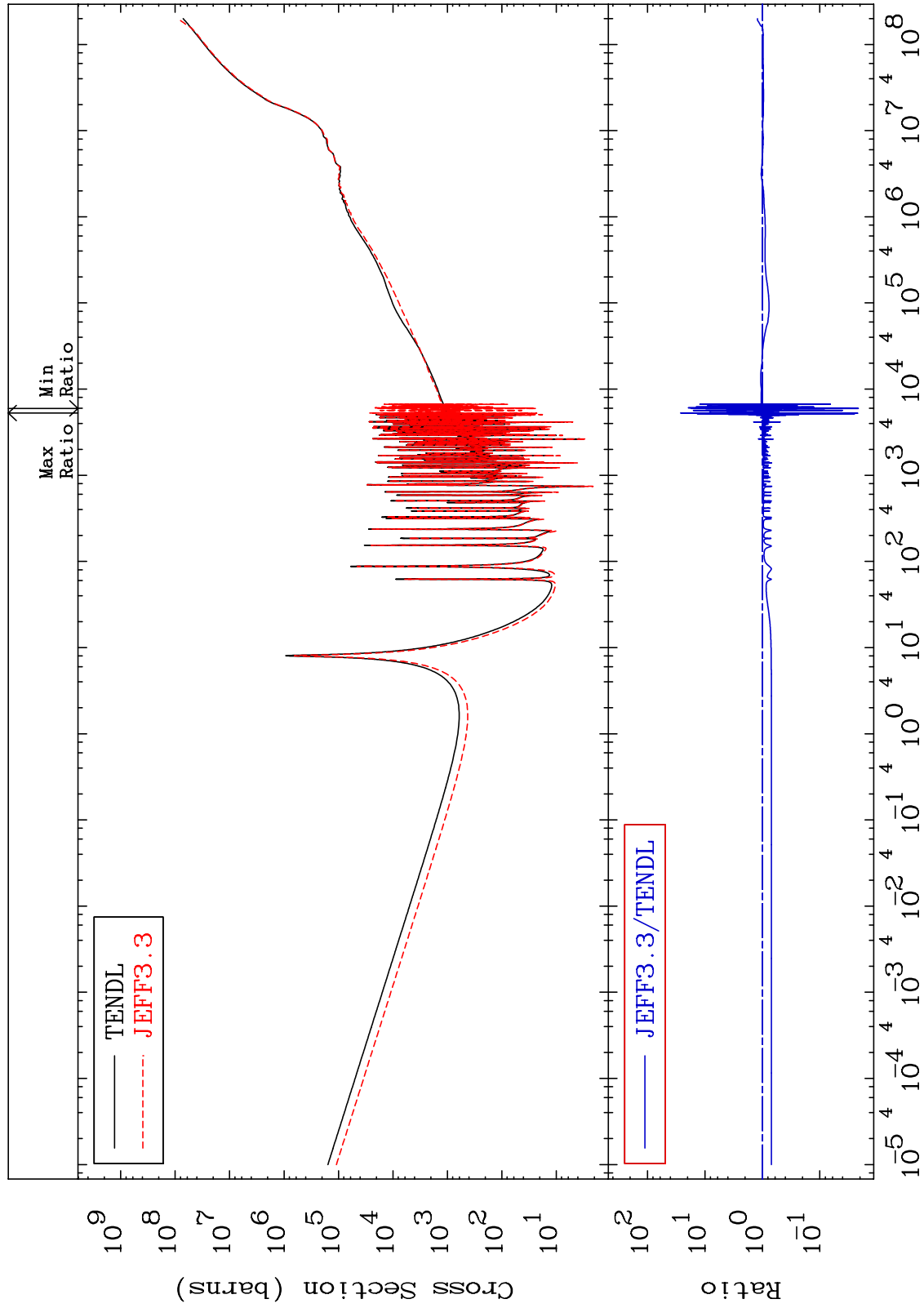
Incident Energy (eV)

62-Sm-152

MAT 6249

Total kinematic kerma (high limit)
Cross Section

62-Sm-152
-97.88 To 2565. %



76

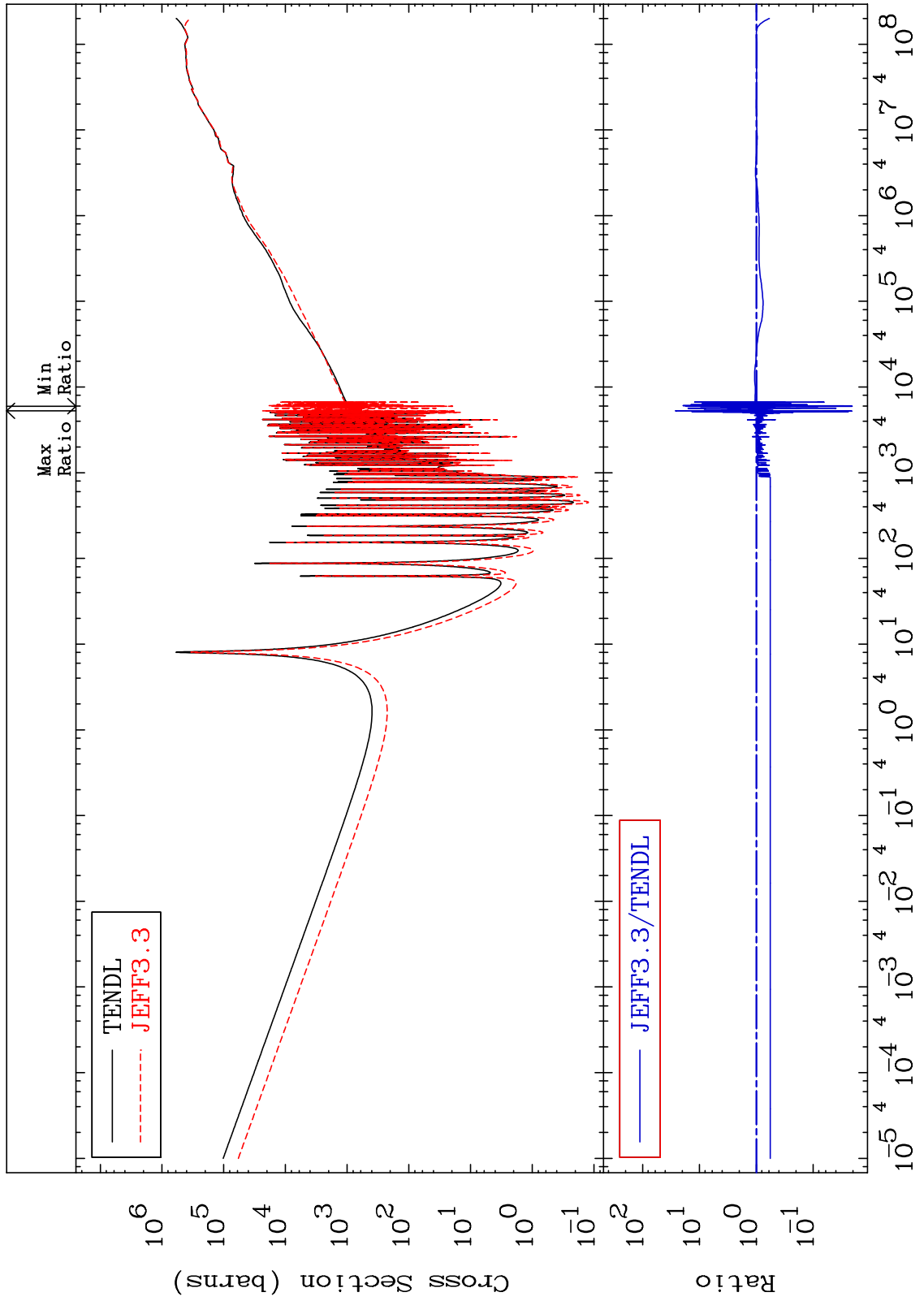
Incident Energy (eV)

62-Sm-152

MAT 6249

Dpa total (eV-barns)
Cross Section

62-Sm-152
-97.96 To 2575. %



77

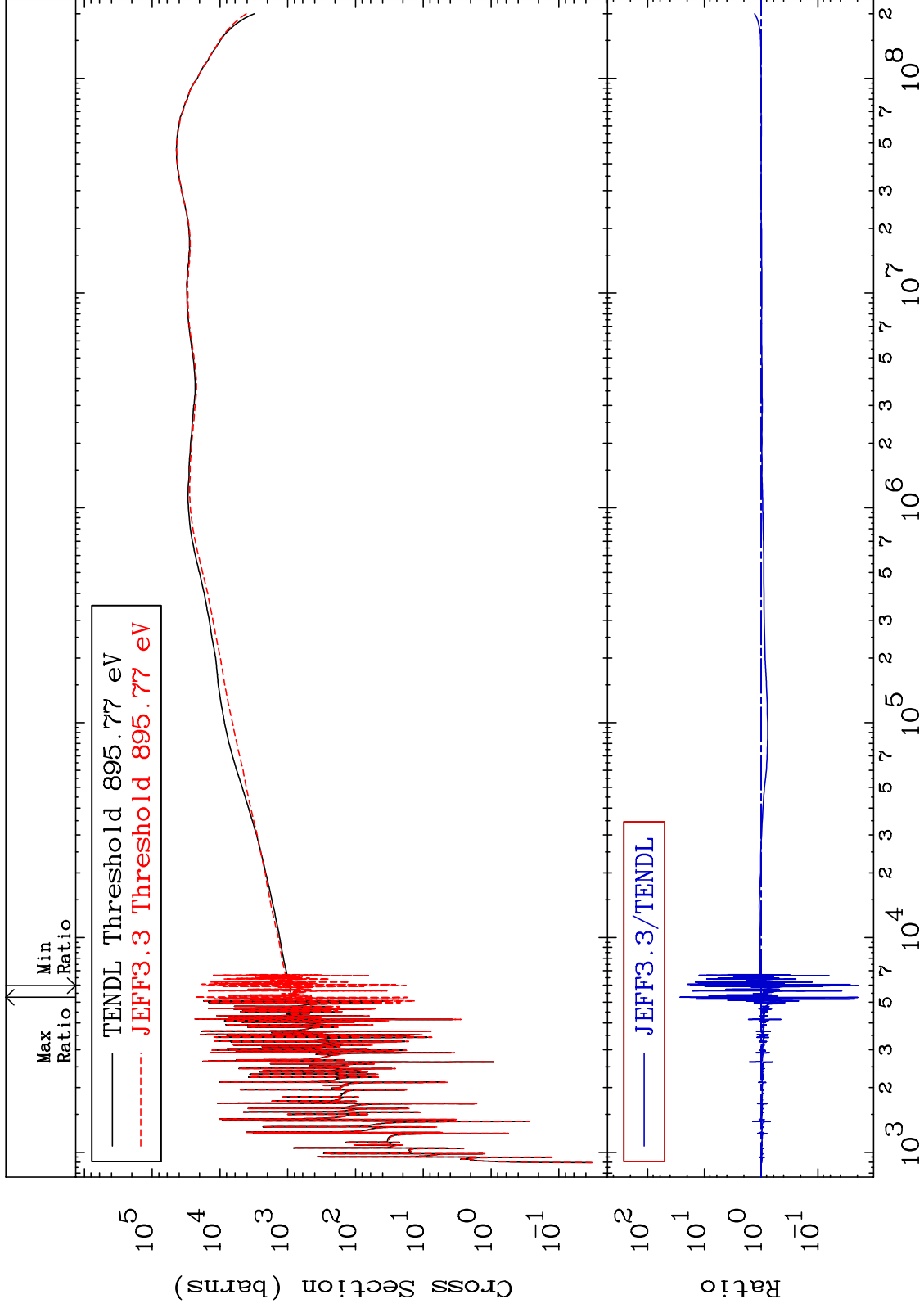
Incident Energy (eV)

62-Sm-152

MAT 6249

Dpa elastic (mt2)
Cross Section

62-Sm-152
-98.07 To 2604. %



78

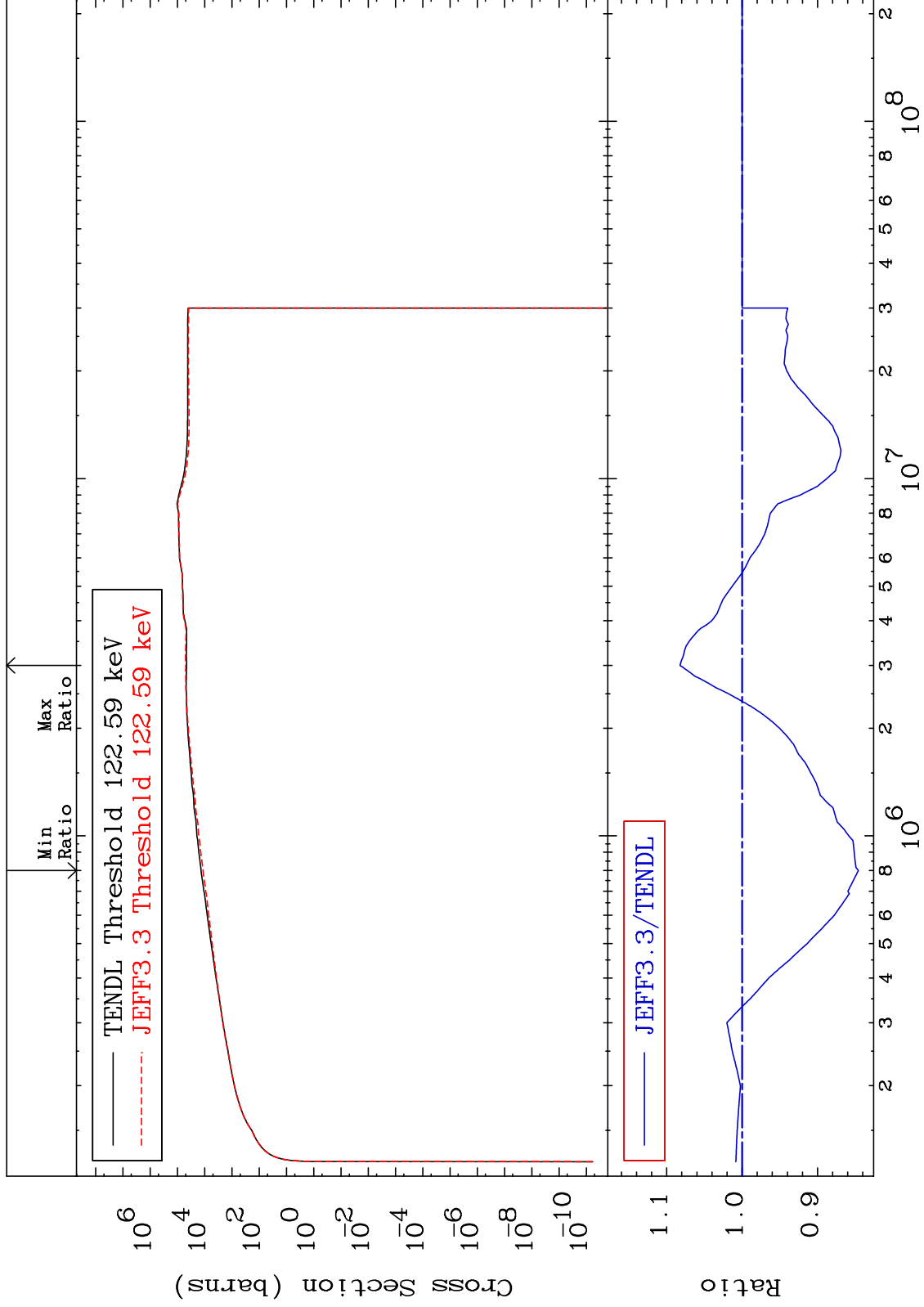
Incident Energy (eV)

62-Sm-152

MAT 6249

Dpa inelastic (mt51-91)
Cross Section

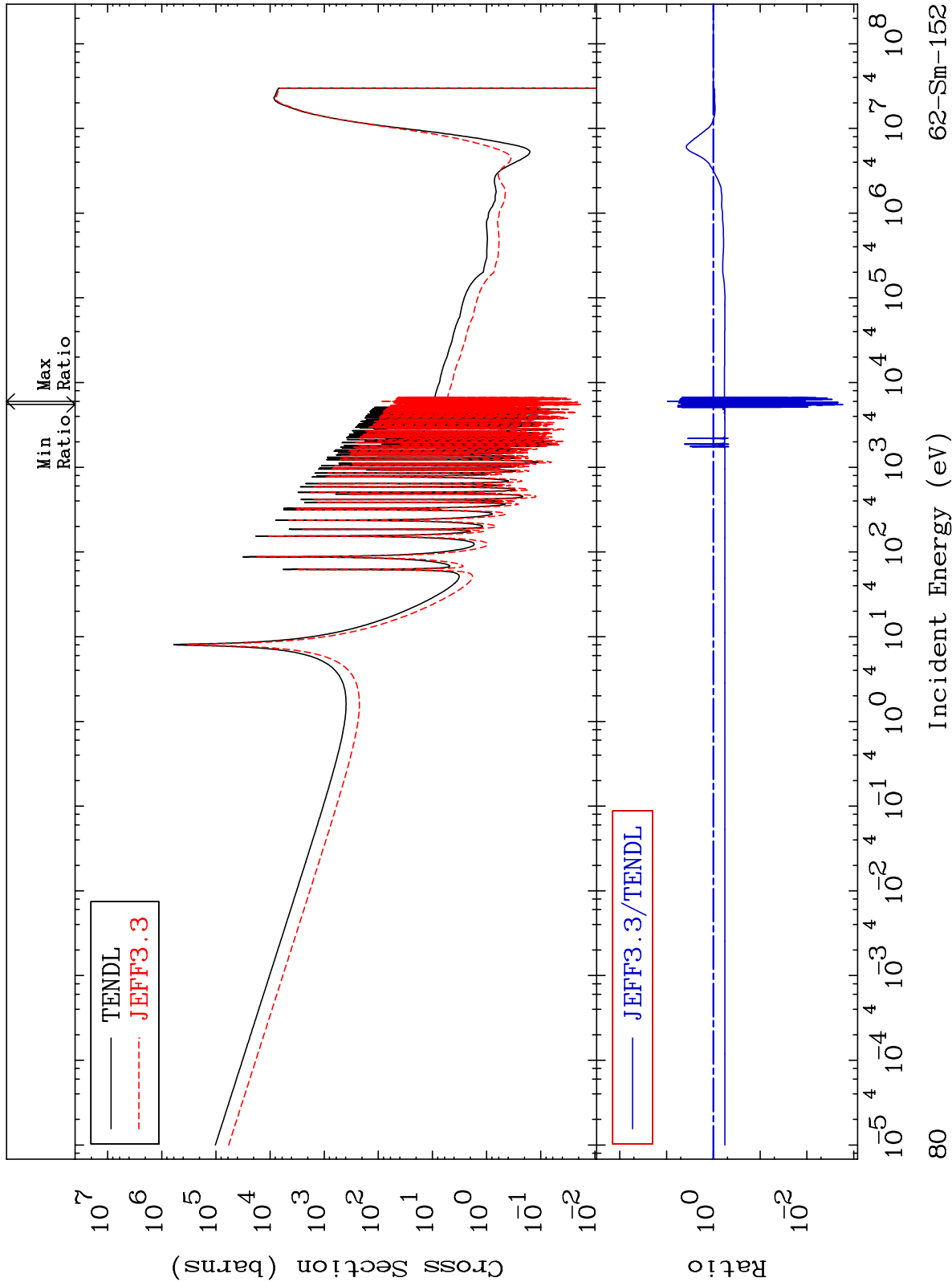
62-Sm-152
-15.42 To 8.232 %



MAT 6249

Dpa disappearance (mt102 -120)
Cross Section

62-Sm-152
-99.83 To 854.7 %



80

Incident Energy (eV)

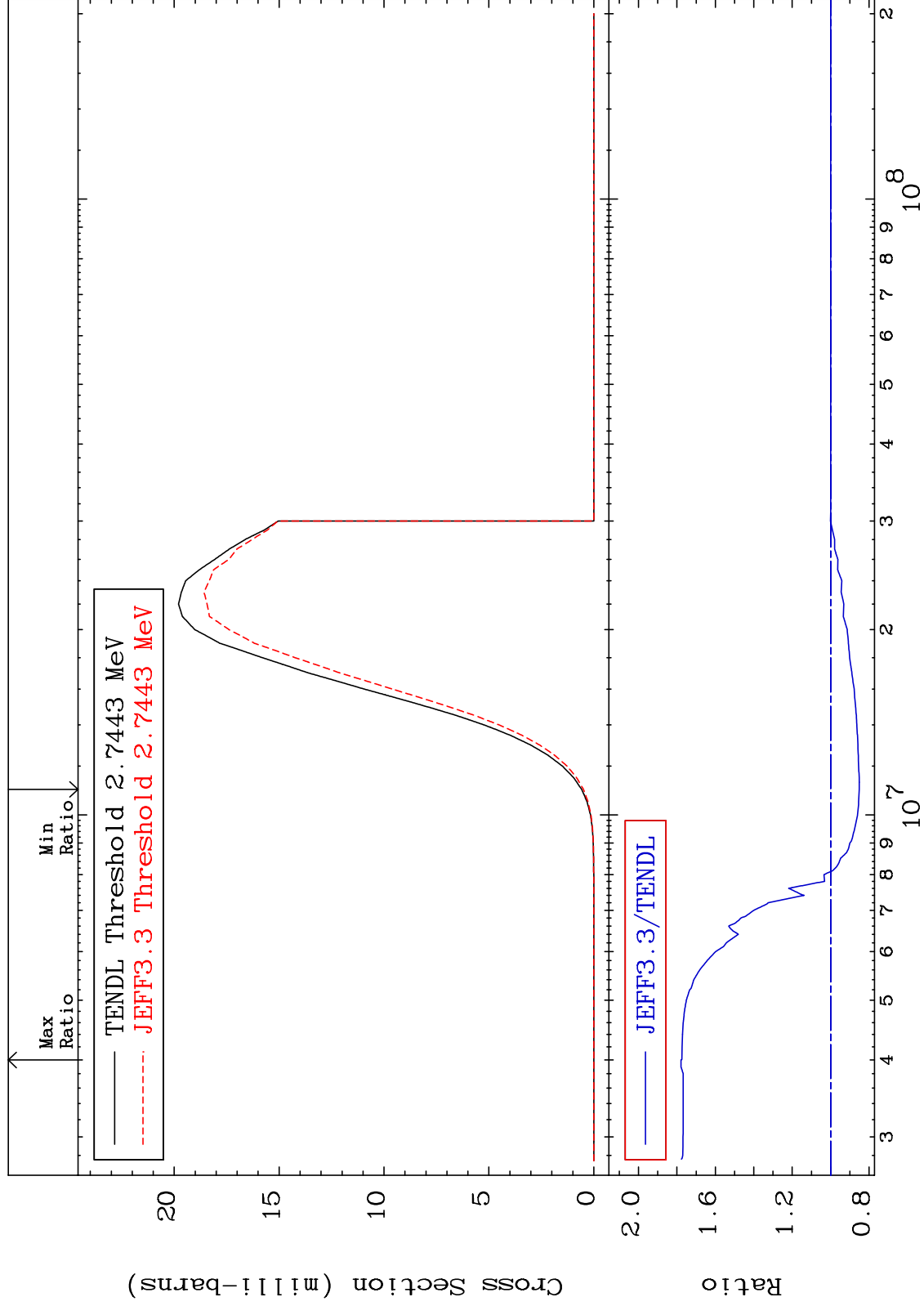
62-Sm-152

MAT 6249

(n,p):61-Pm-152g

62-Sm-152

Radionuclide Production Cross Section -14.90 To 77.86 %

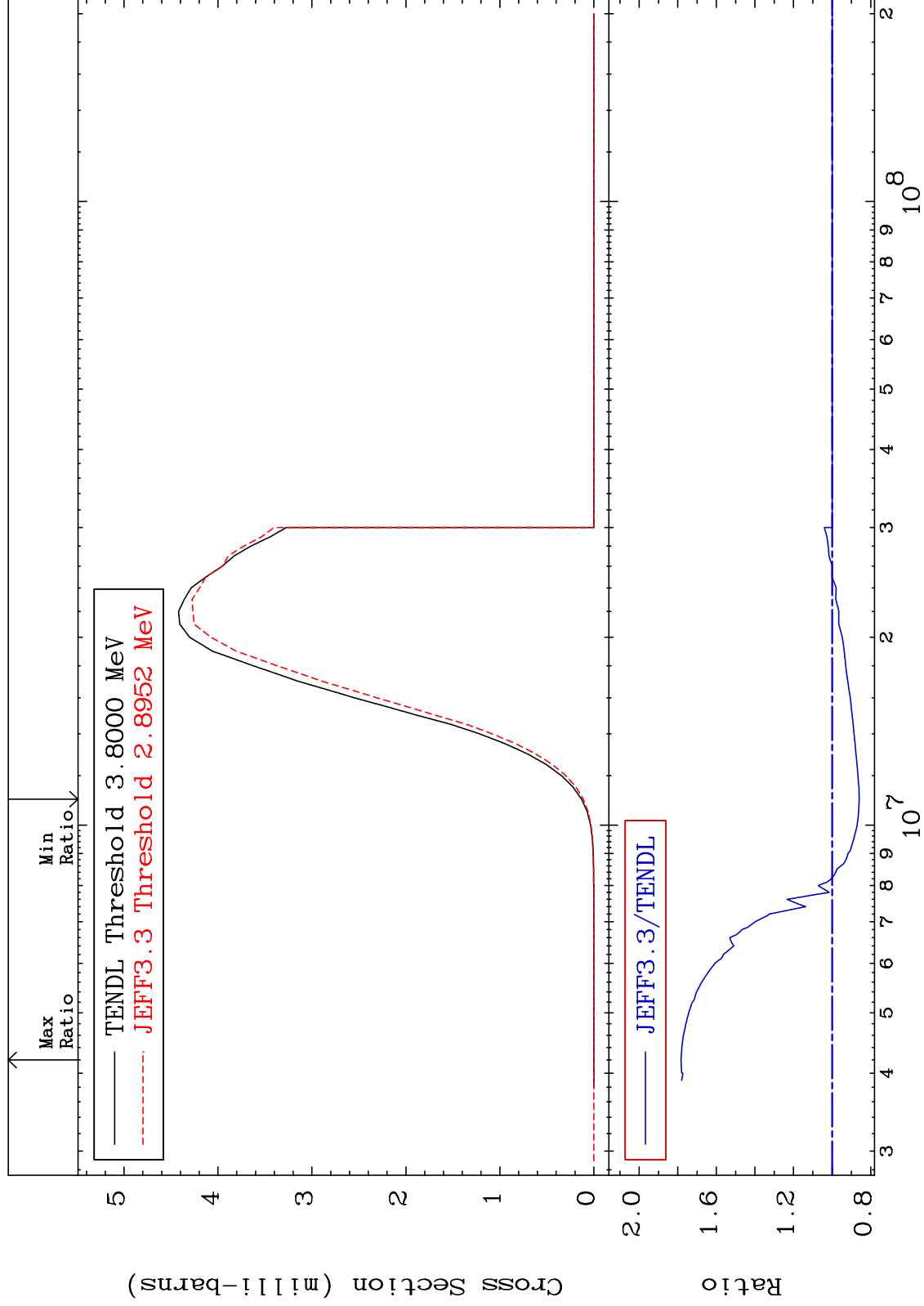


MAT 6249

(n, p): 61-Pm-152m4

62-Sm-152

Radionuclide Production Cross Section -14.08 To 78.30 %



82

Incident Energy (eV)

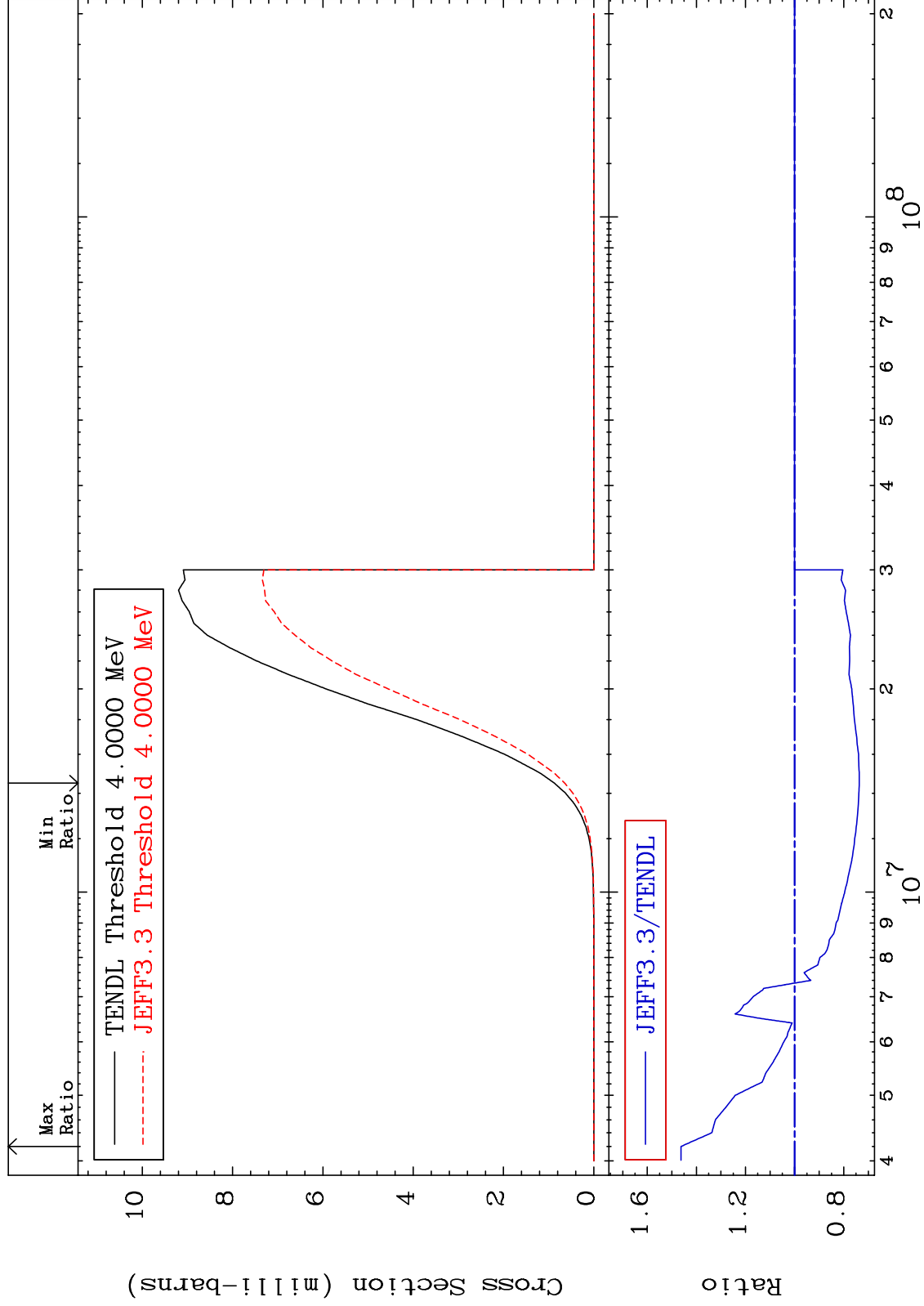
62-Sm-152

MAT 6249

(n, p):61-Pm-152m10

62-Sm-152

Radionuclide Production Cross Section -26.33 To 46.25 %

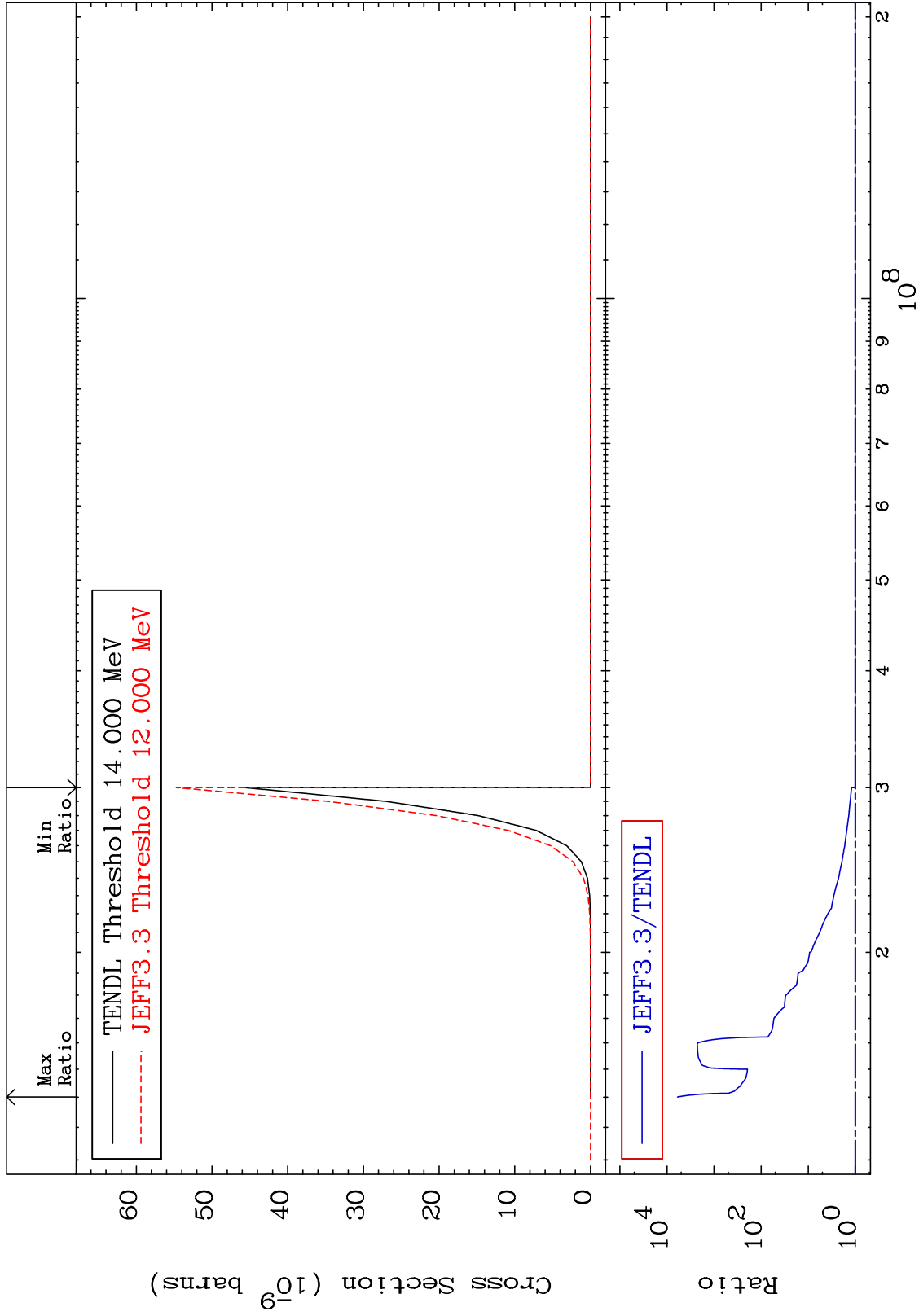


MAT 6249

(n, p) α :59-Pr-148g

62-Sm-152

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 6249

(n, p) α :59-Pr-148m1

62-Sm-152

Radionuclide Production Cross Section 0.000 To 9999. %

