

Program Complot
(Version 2018-1)

by

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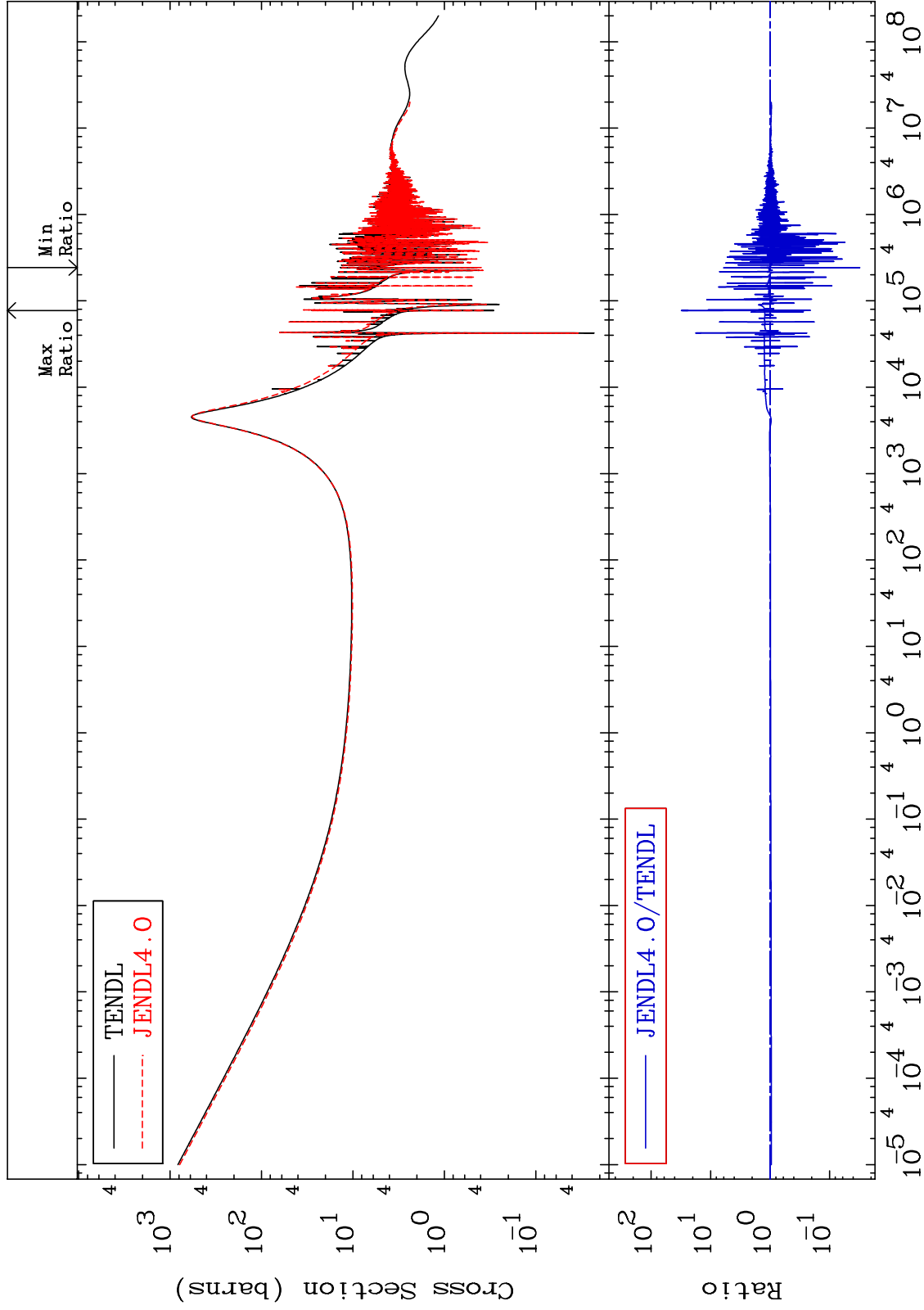
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 2837

Total
Cross Section

28-Ni-62
-96.89 To 3009. %



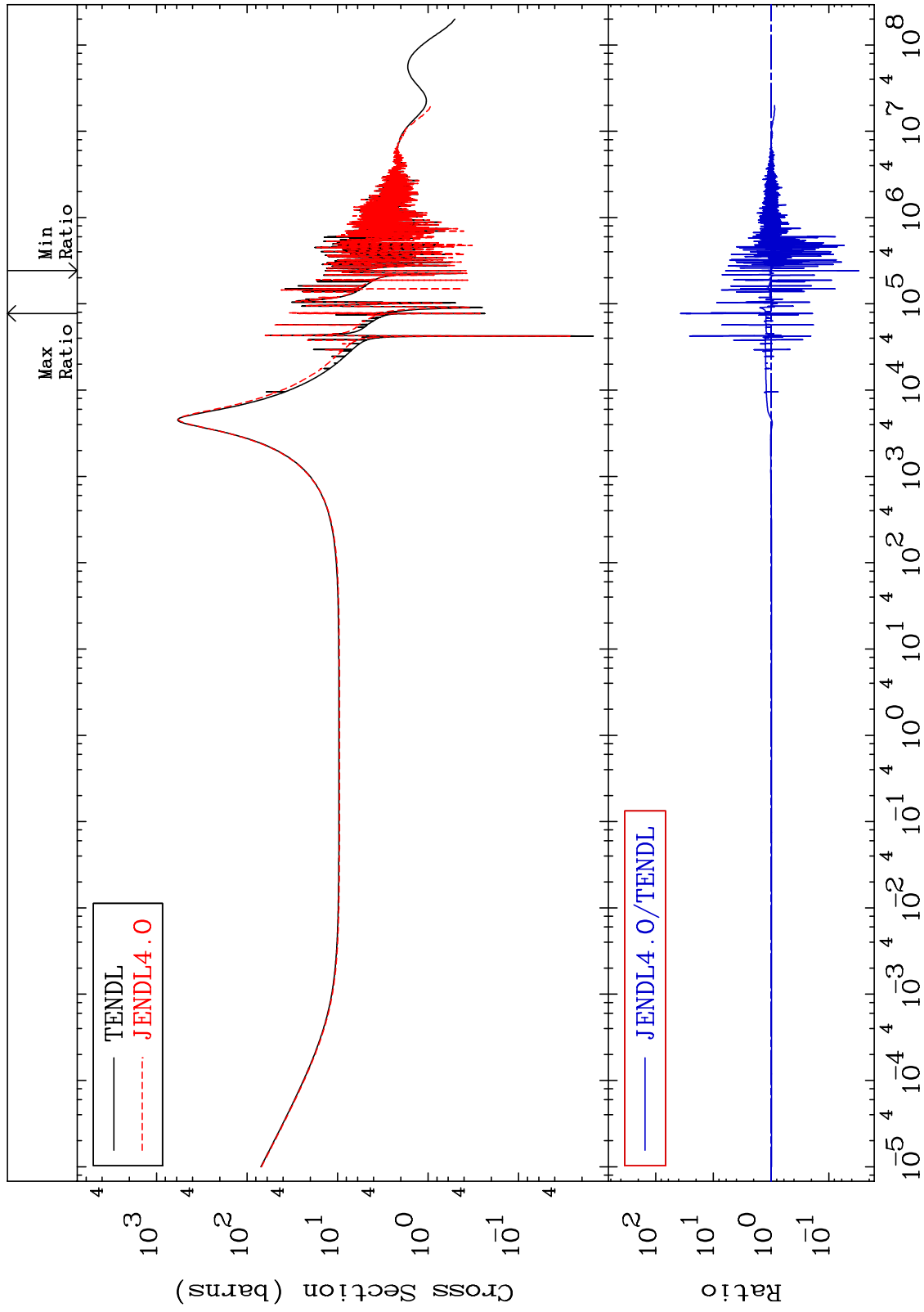
Incident Energy (eV)

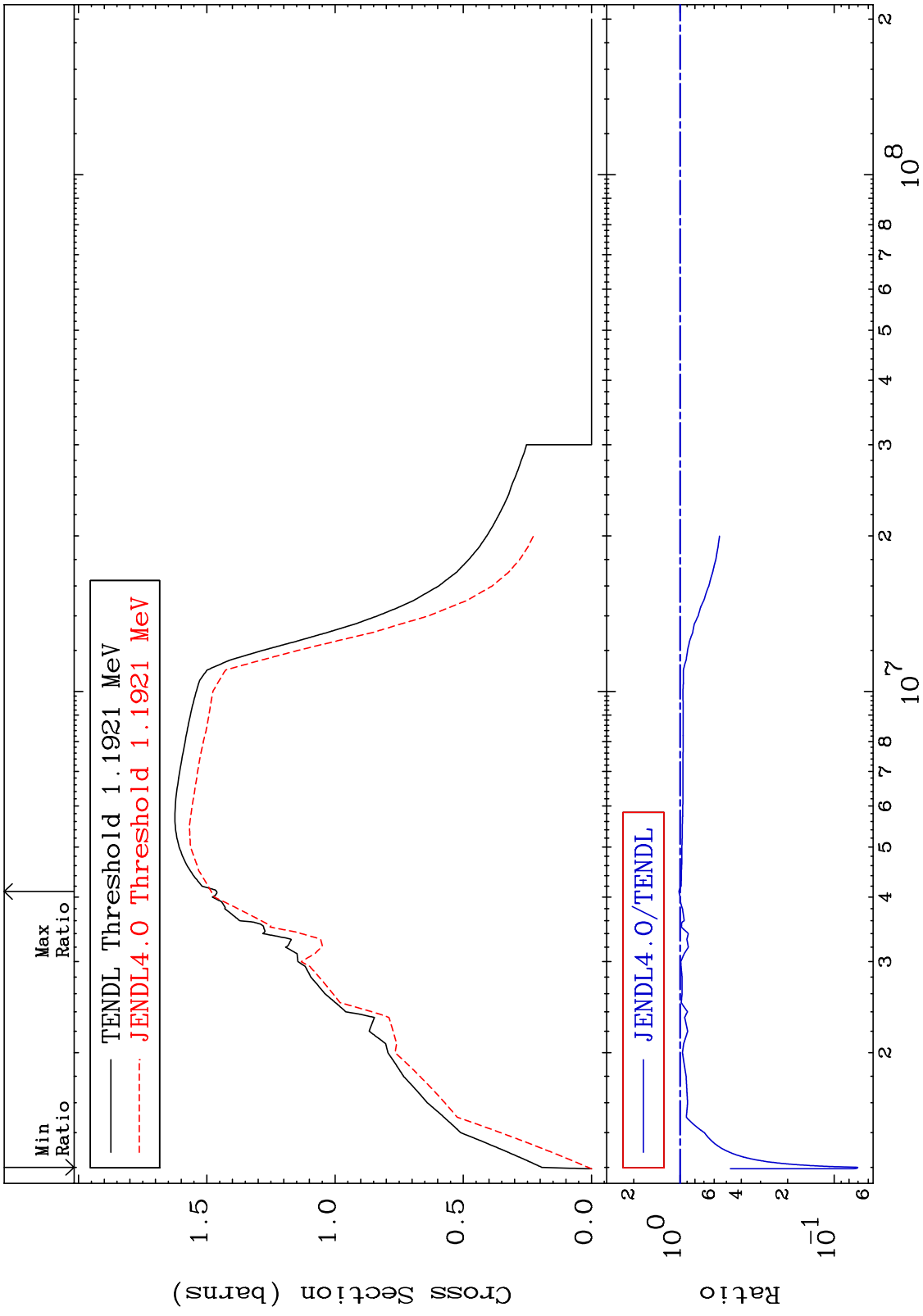
28-Ni-62

MAT 2837

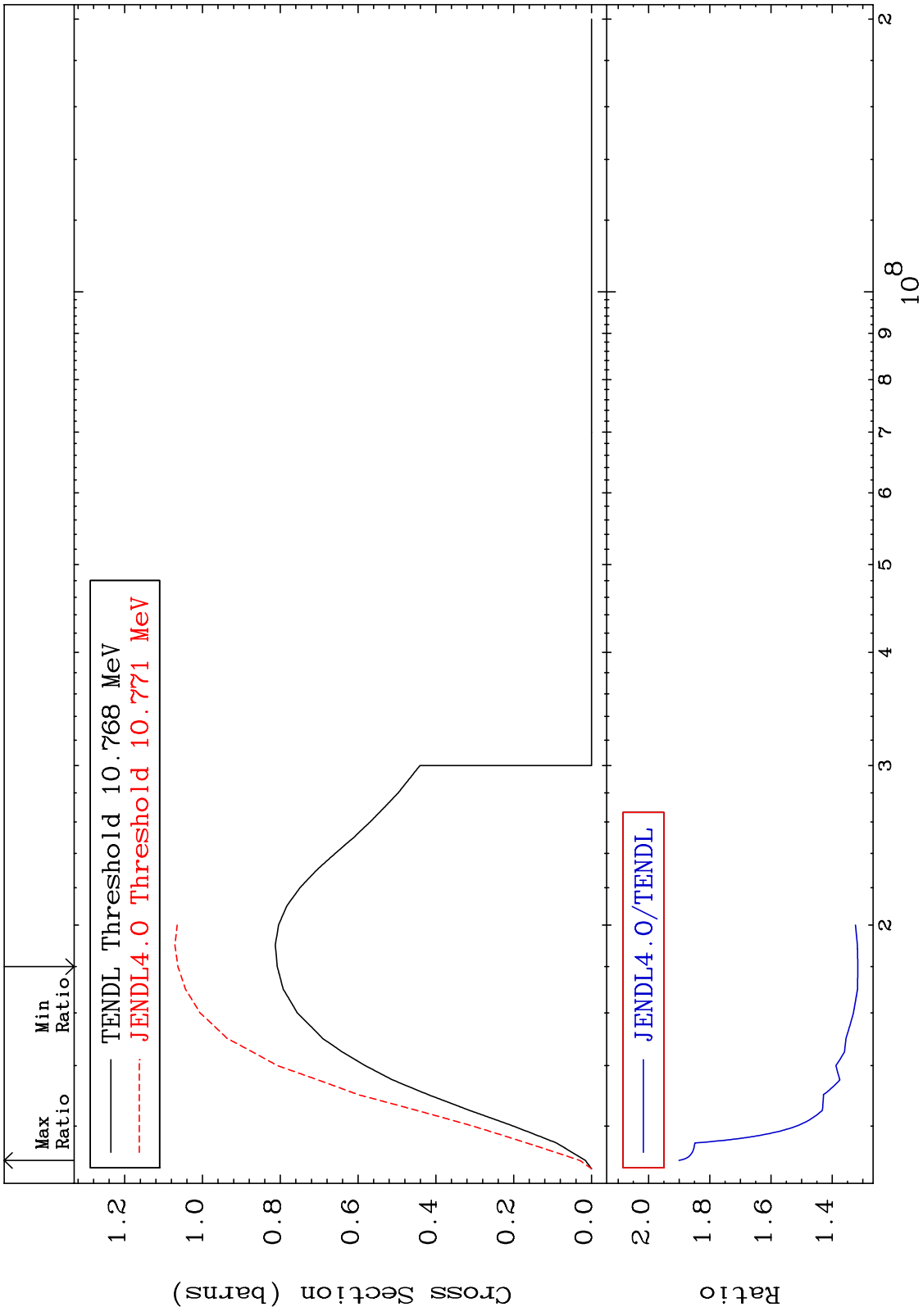
Elastic
Cross Section

28-Ni-62
-97.00 To 3589. %

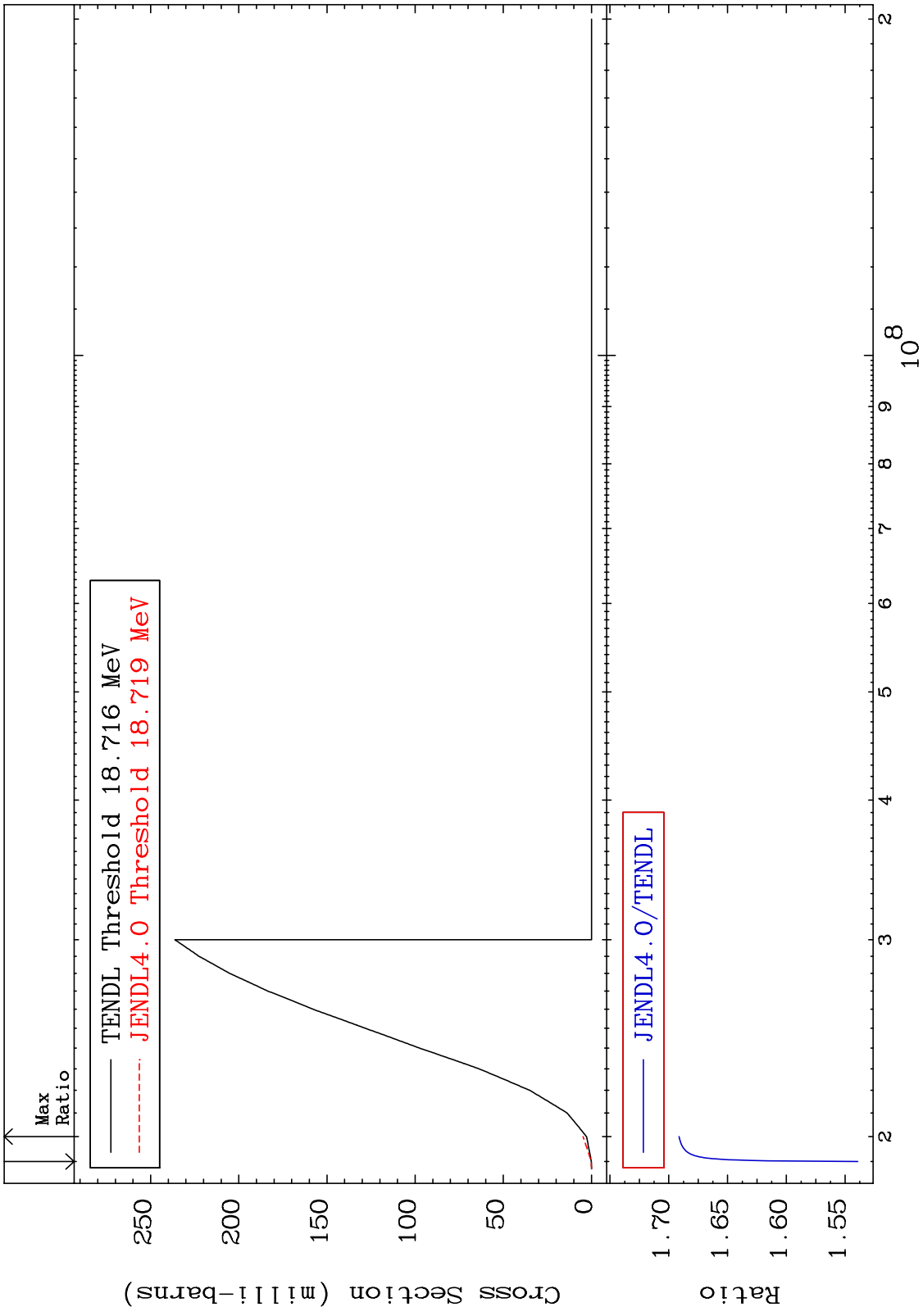




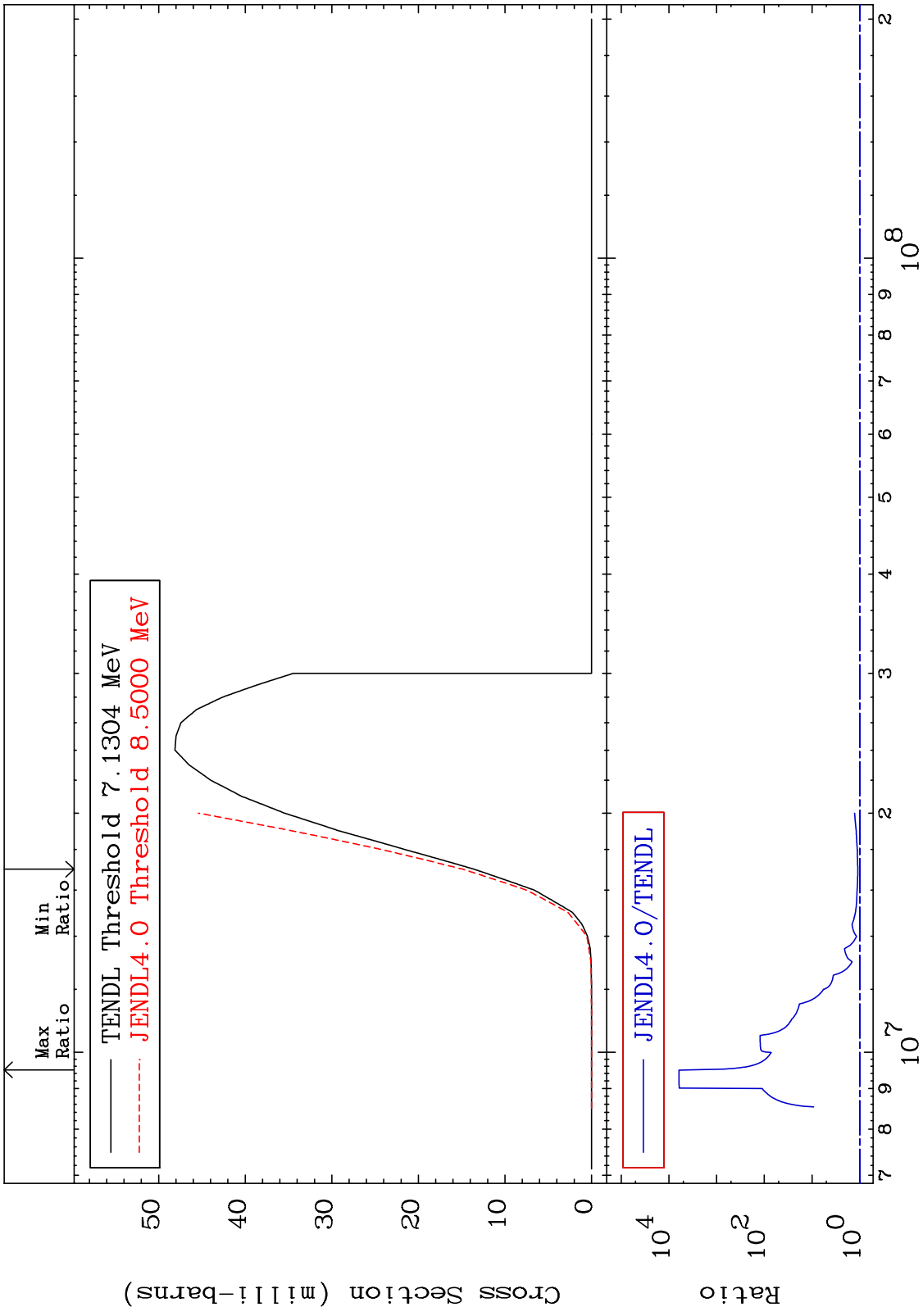
MAT 2837 (n,2n) Cross Section 28-Ni-62 31.61 To 90.07 %



MAT 2837 (n,3n) Cross Section 28-Ni-62 To 69.13 % 53.92

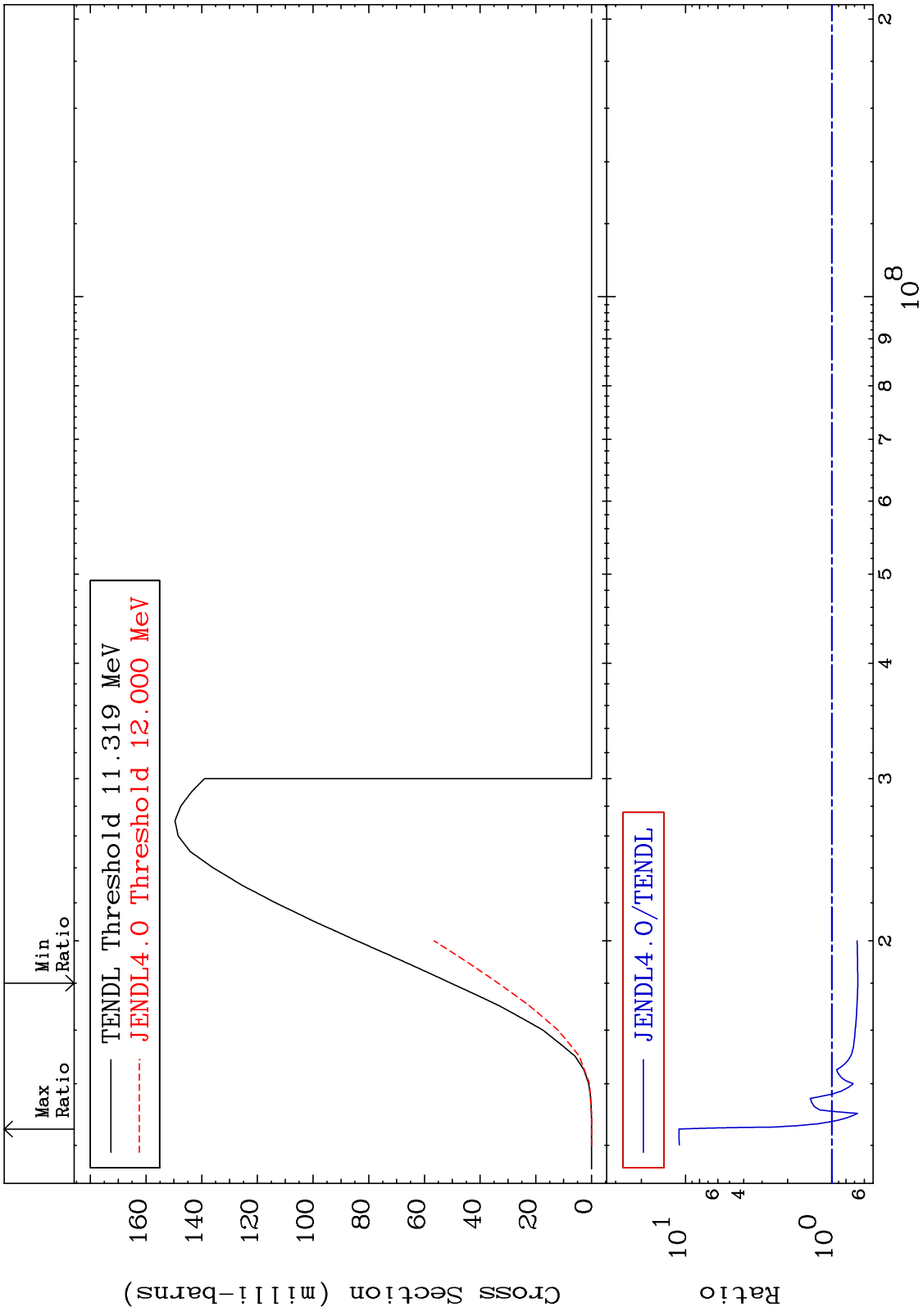


MAT 2837 $(n, n') \alpha$ Cross Section 28-Ni-62 To 9999. %



6 Incident Energy (eV) 28-Ni-62

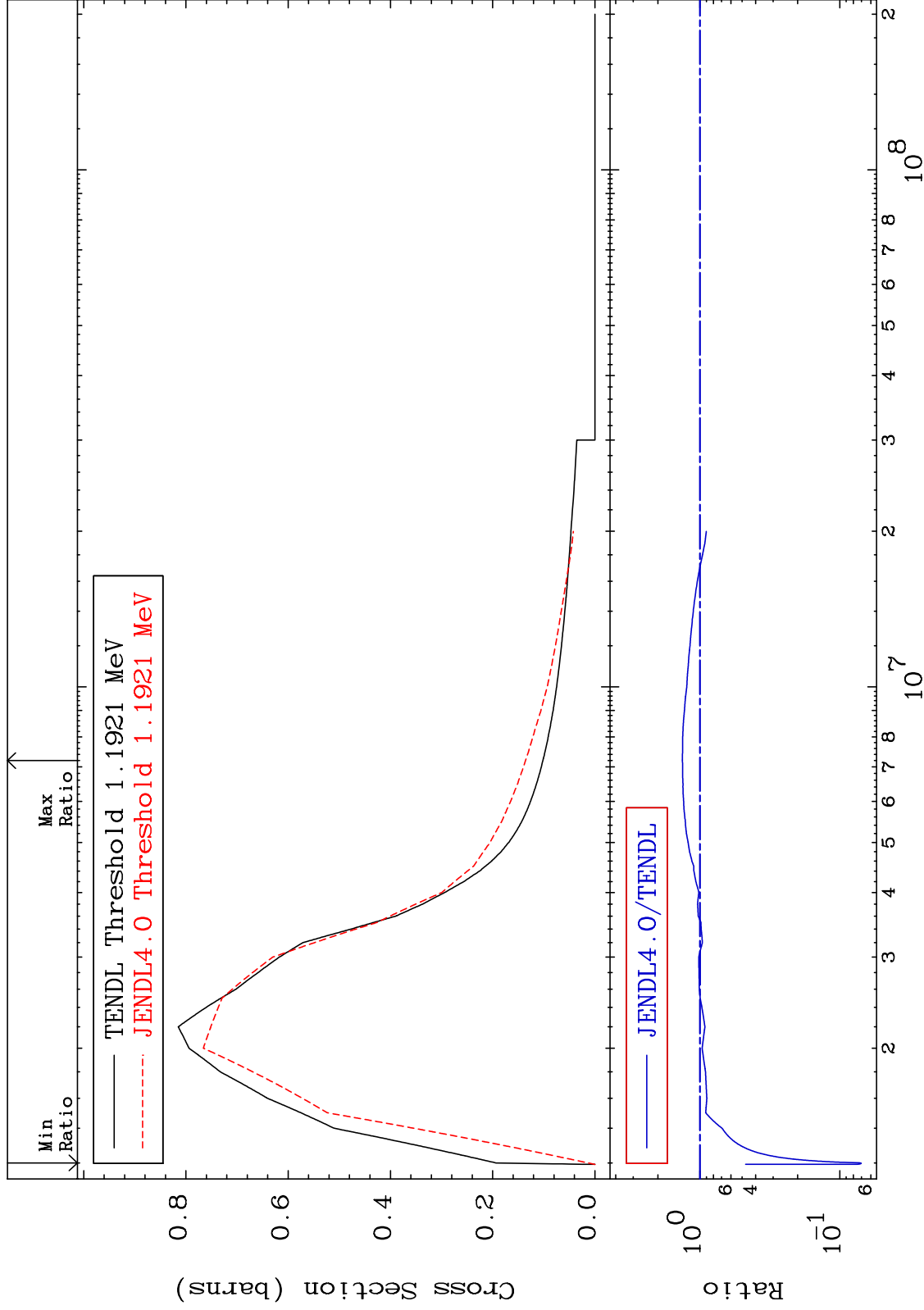
MAT 2837 (n,n') p 28-Ni-62
 Cross Section -33.63 To 1006. %



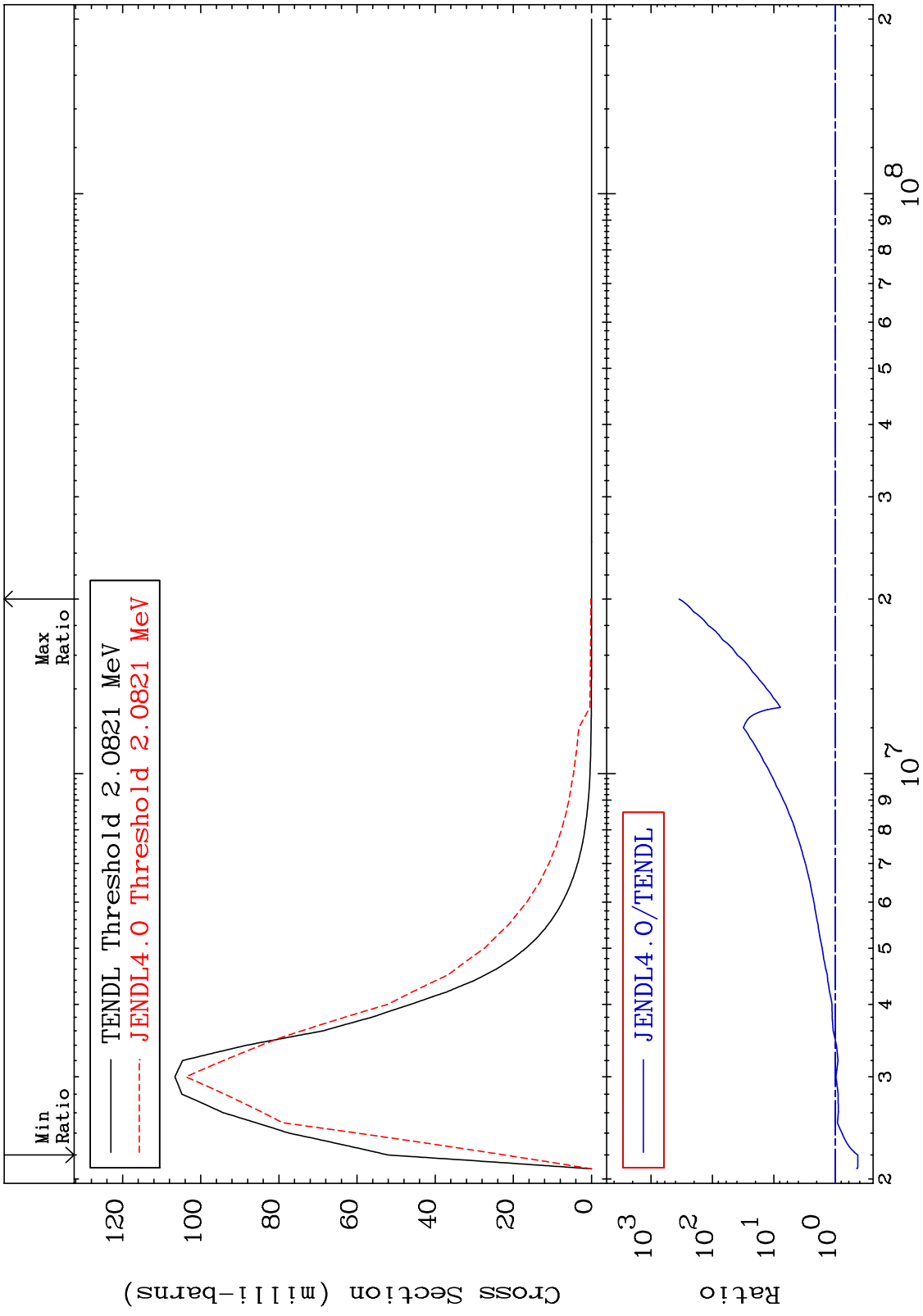
MAT 2837

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

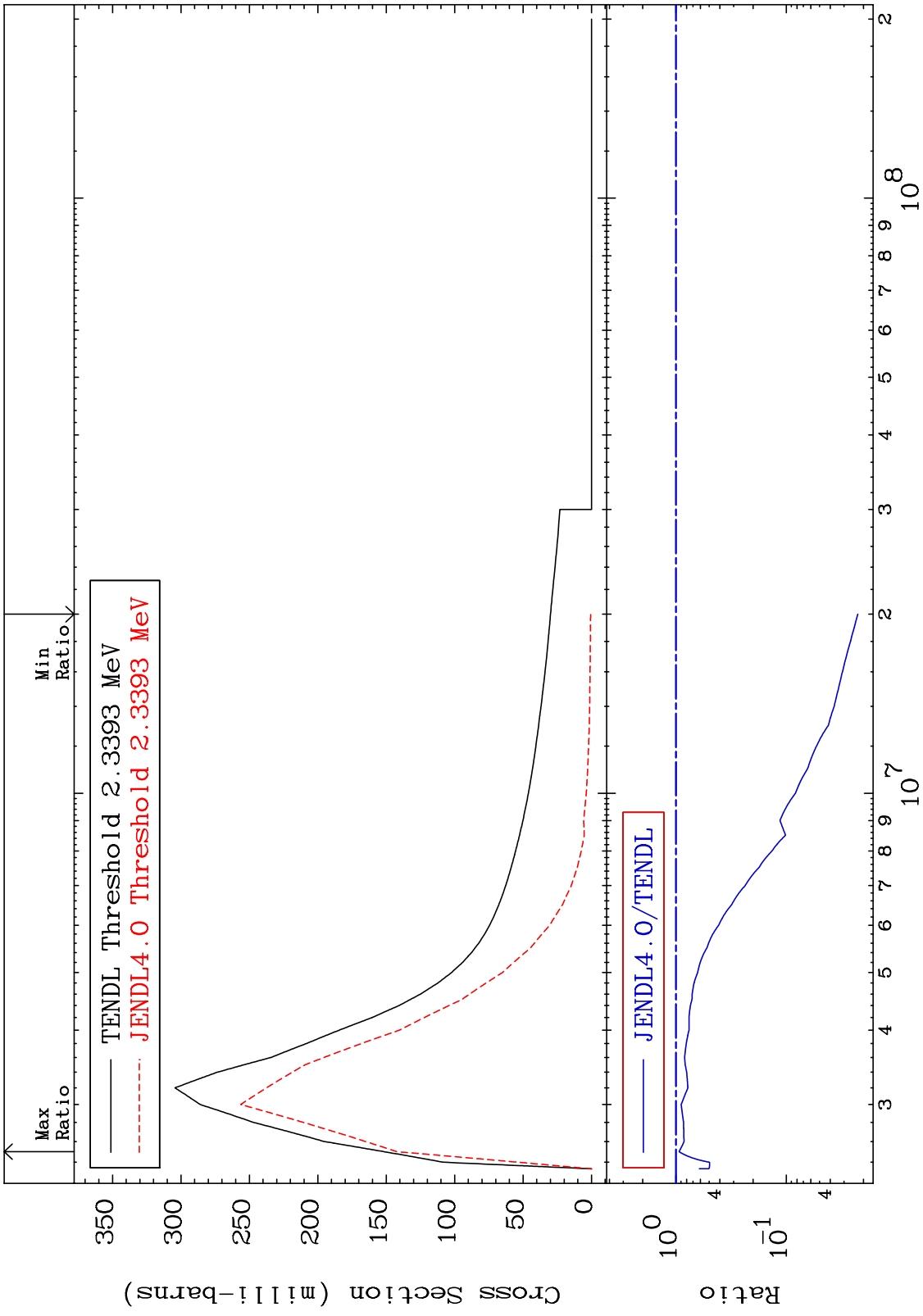
28-Ni-62
-92.99 To 33.41 %



MAT 2837 MT= 52 (n,n') Level Cross Section -57.17 To 9999. % 28-Ni-62

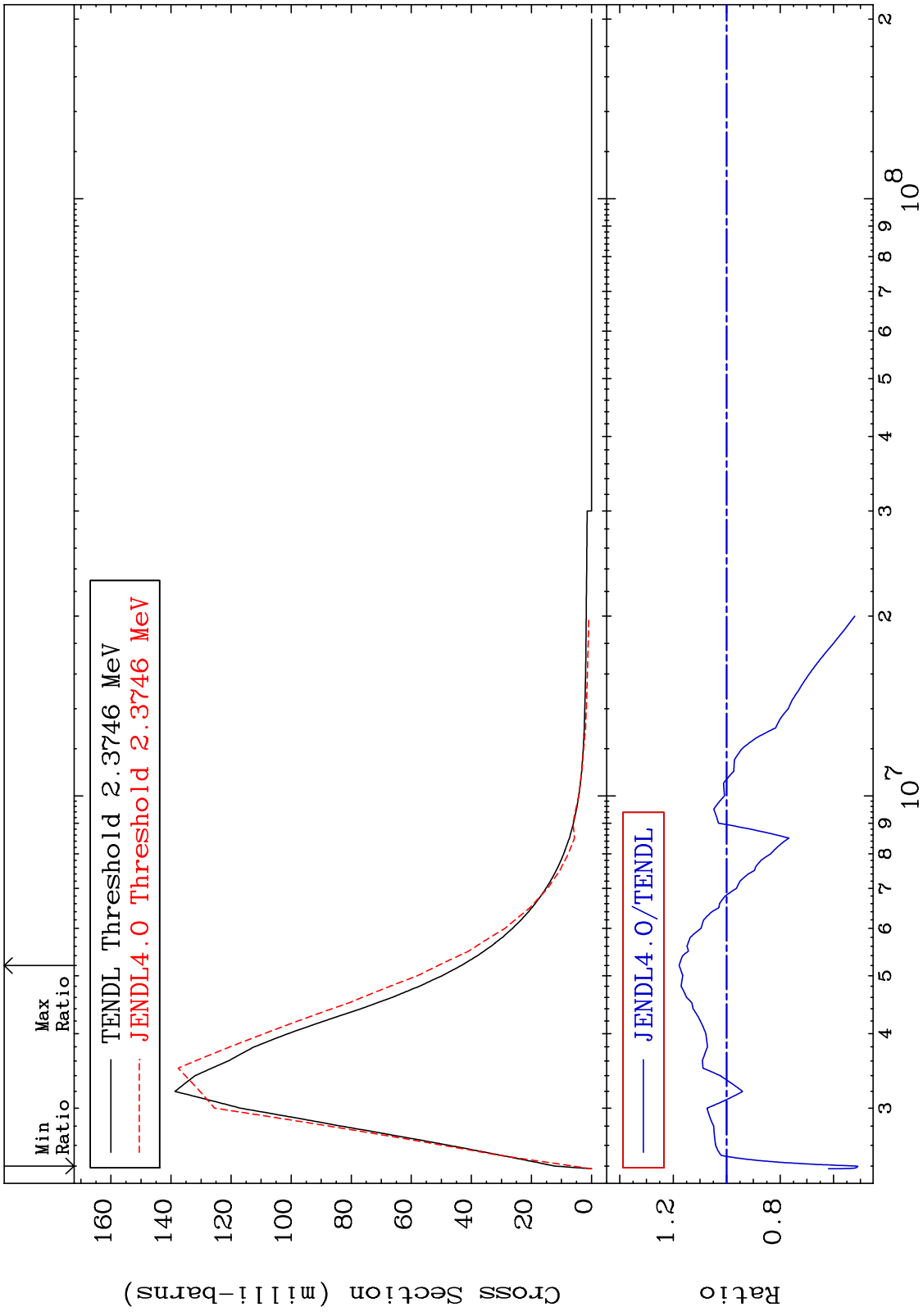


MAT 2837 MT= 53 (n,n') Level Cross Section 28-Ni-62 -97.75 To -6.249%

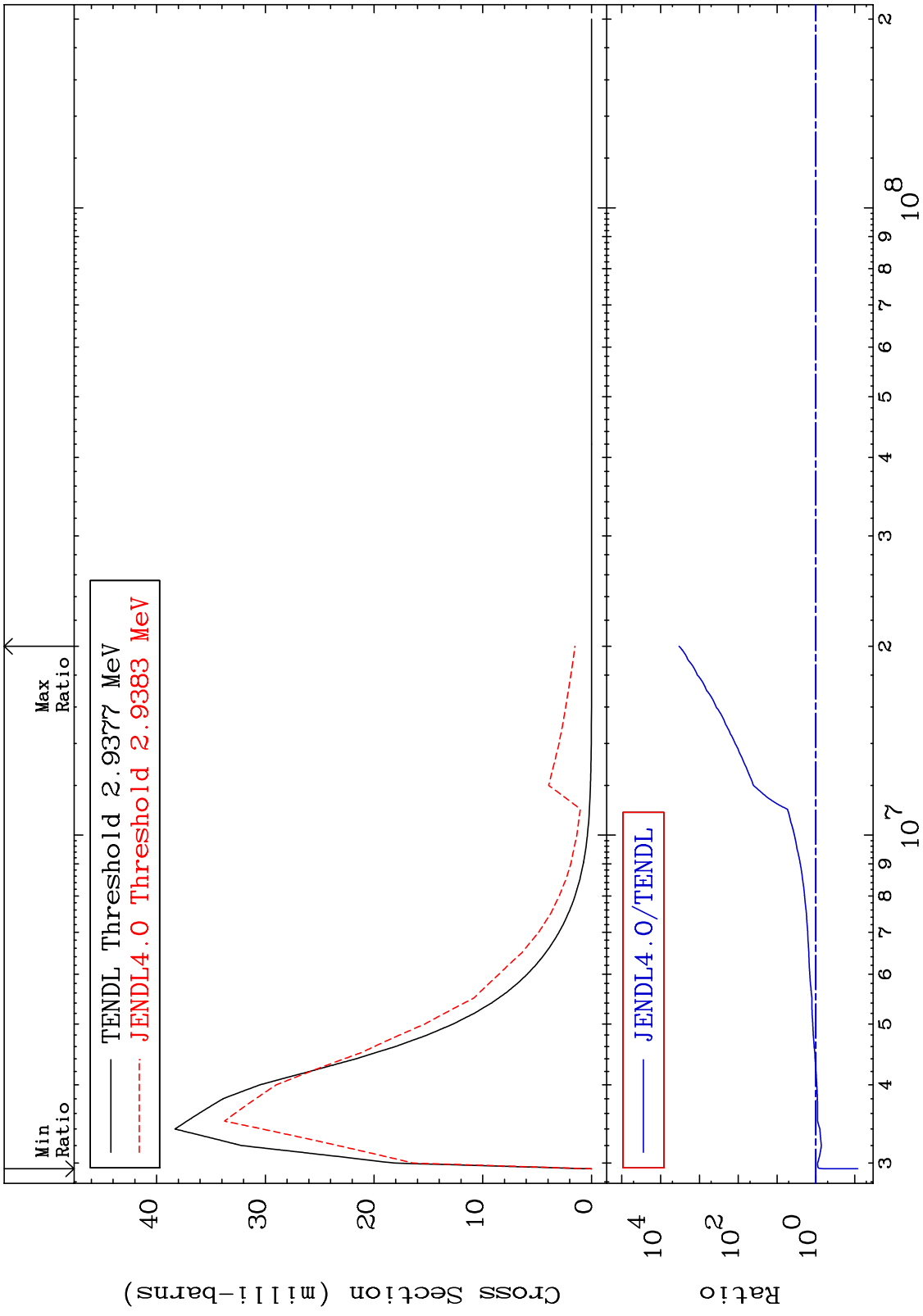


10 28-Ni-62

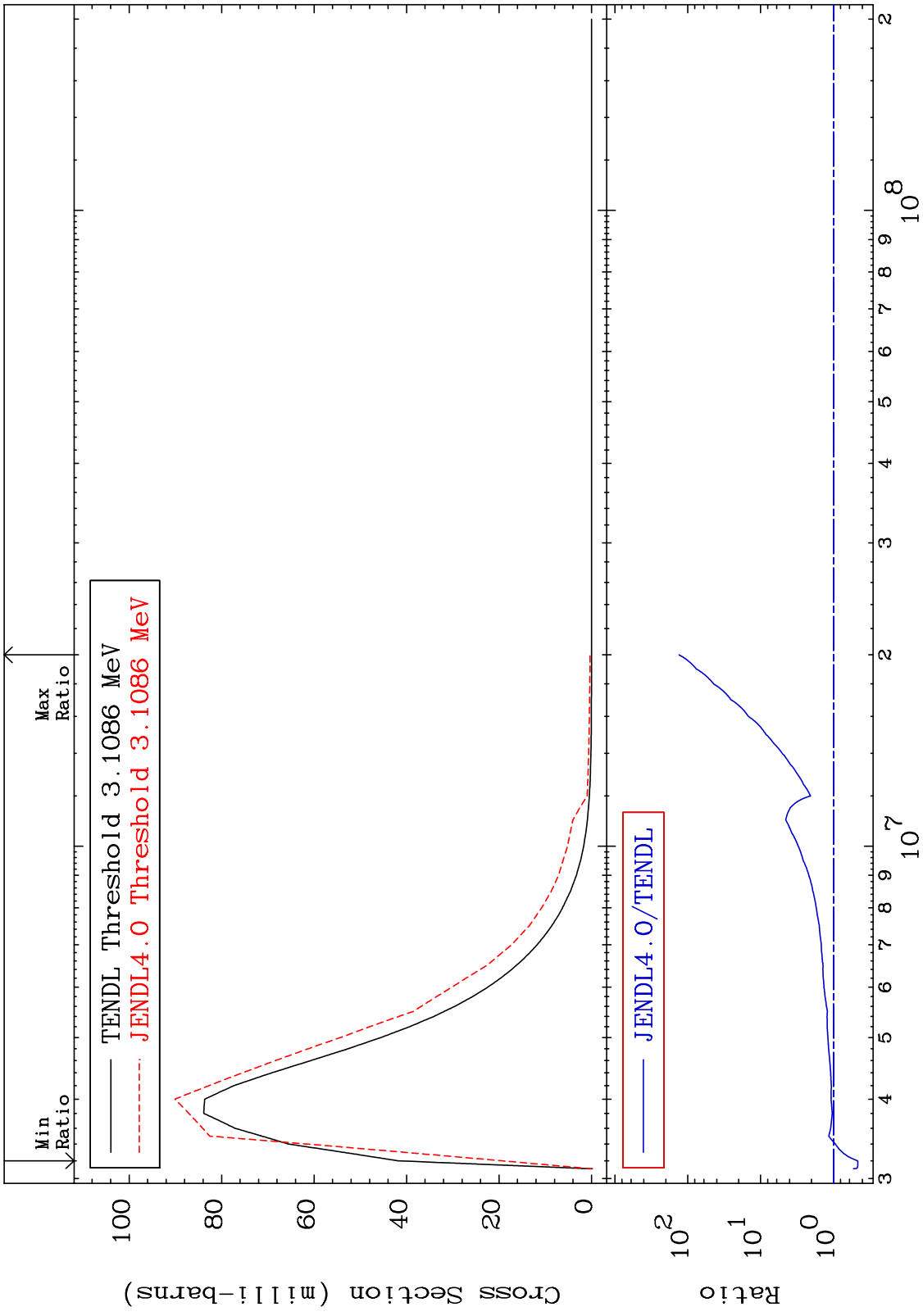
MAT 2837 MT= 54 (n,n') Level Cross Section -49.07 To 17.82 % 28-Ni-62



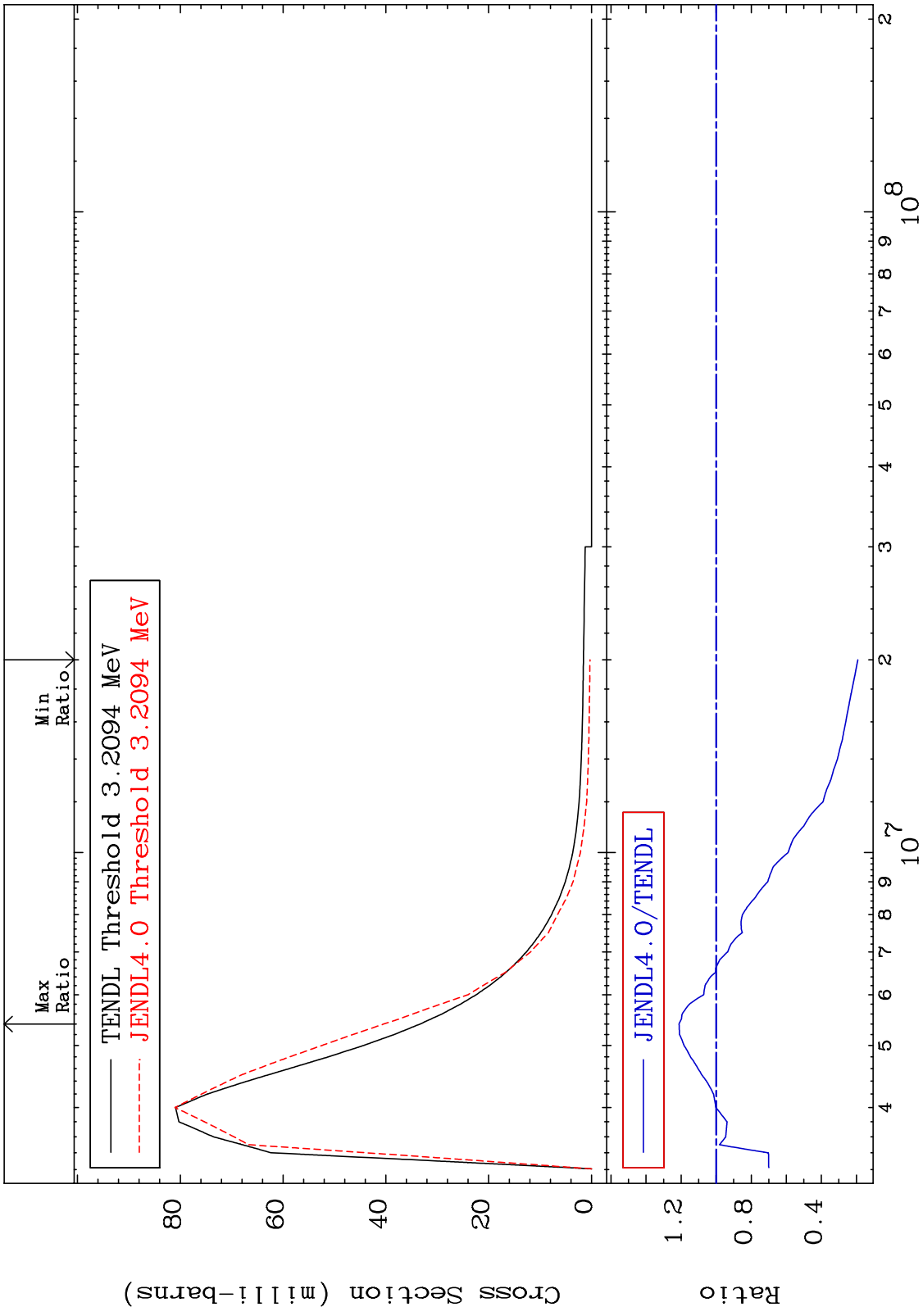
MAT 2837 MT= 55 (n,n') Level Cross Section -91.70 To 9999. % 28-Ni-62



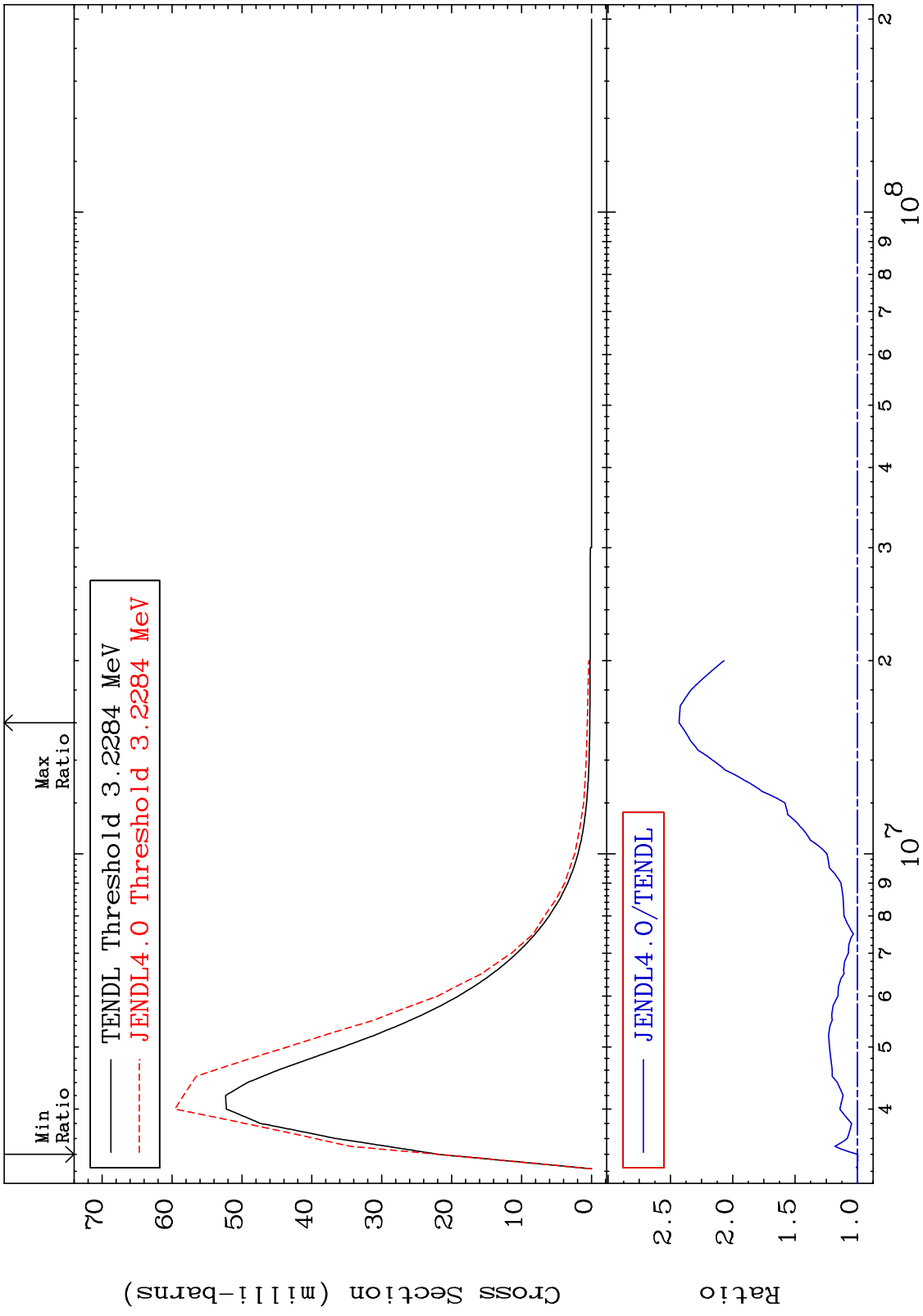
MAT 2837 MT= 56 (n,n') Level Cross Section -53.78 To 9999. % 28-Ni-62



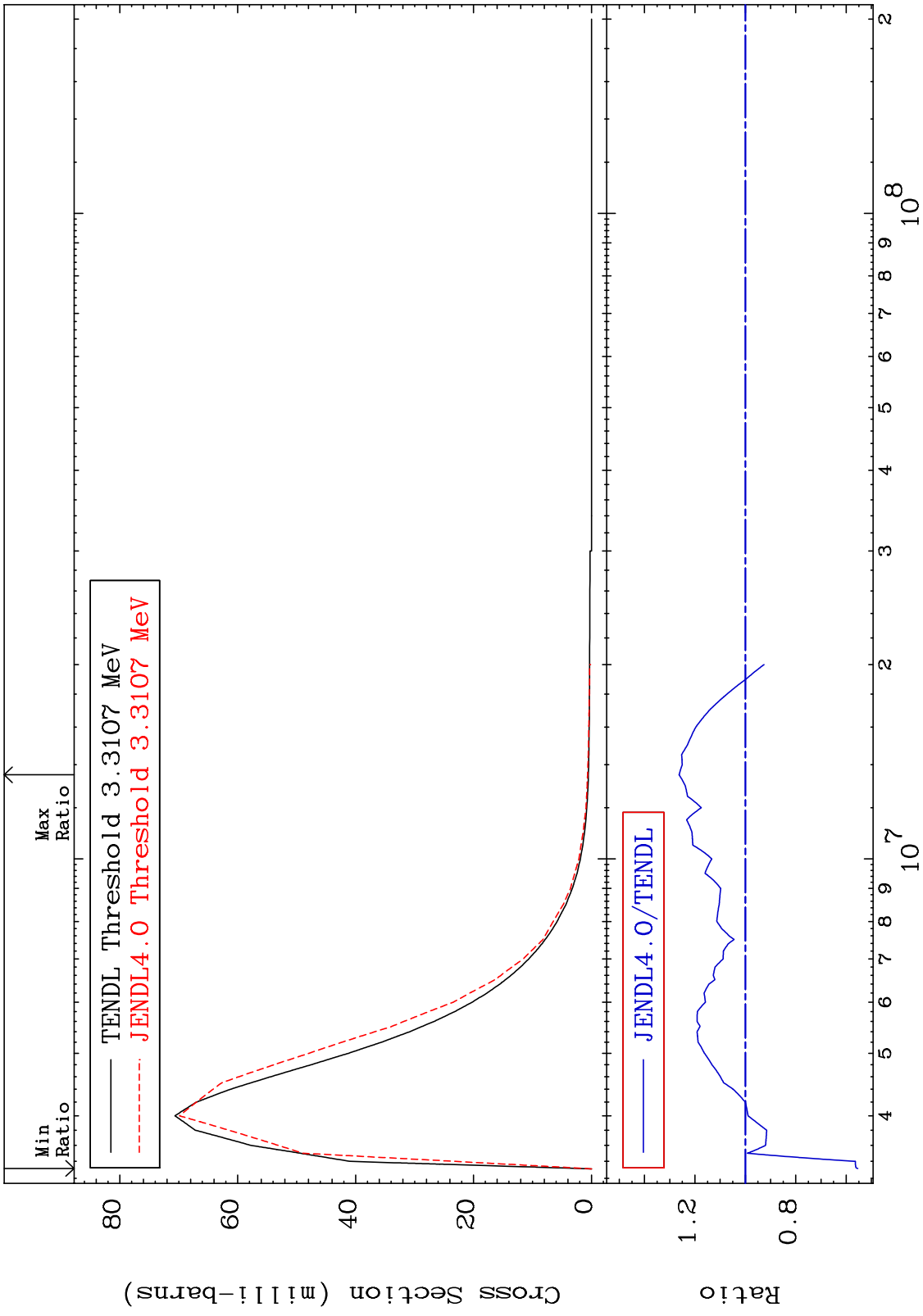
MAT 2837 MT= 57 (n,n') Level Cross Section -80.82 To 21.18 % 28-Ni-62



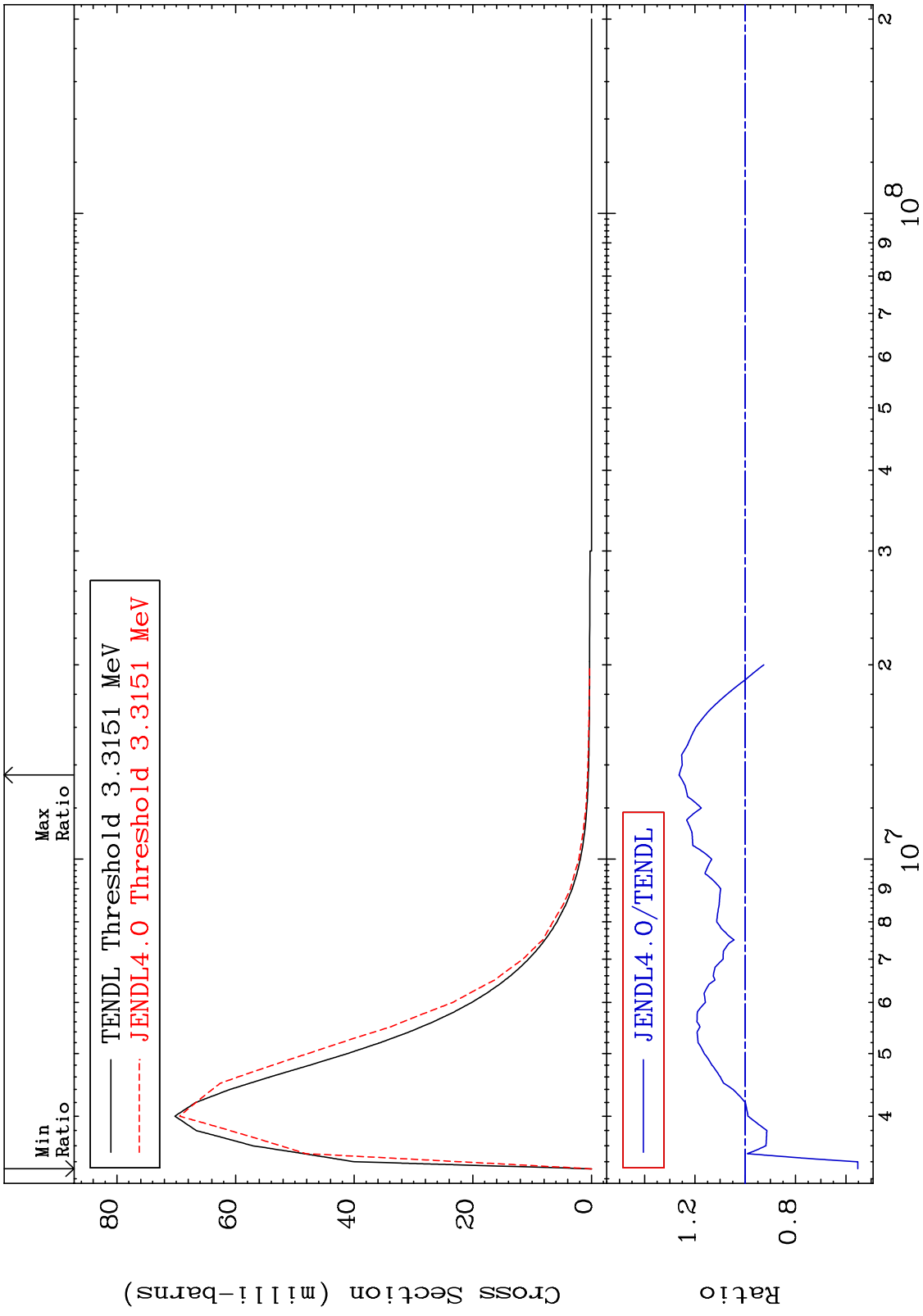
MAT 2837 MT= 58 (n,n') Level Cross Section 28-Ni-62
 -0.363 To 143.1 %



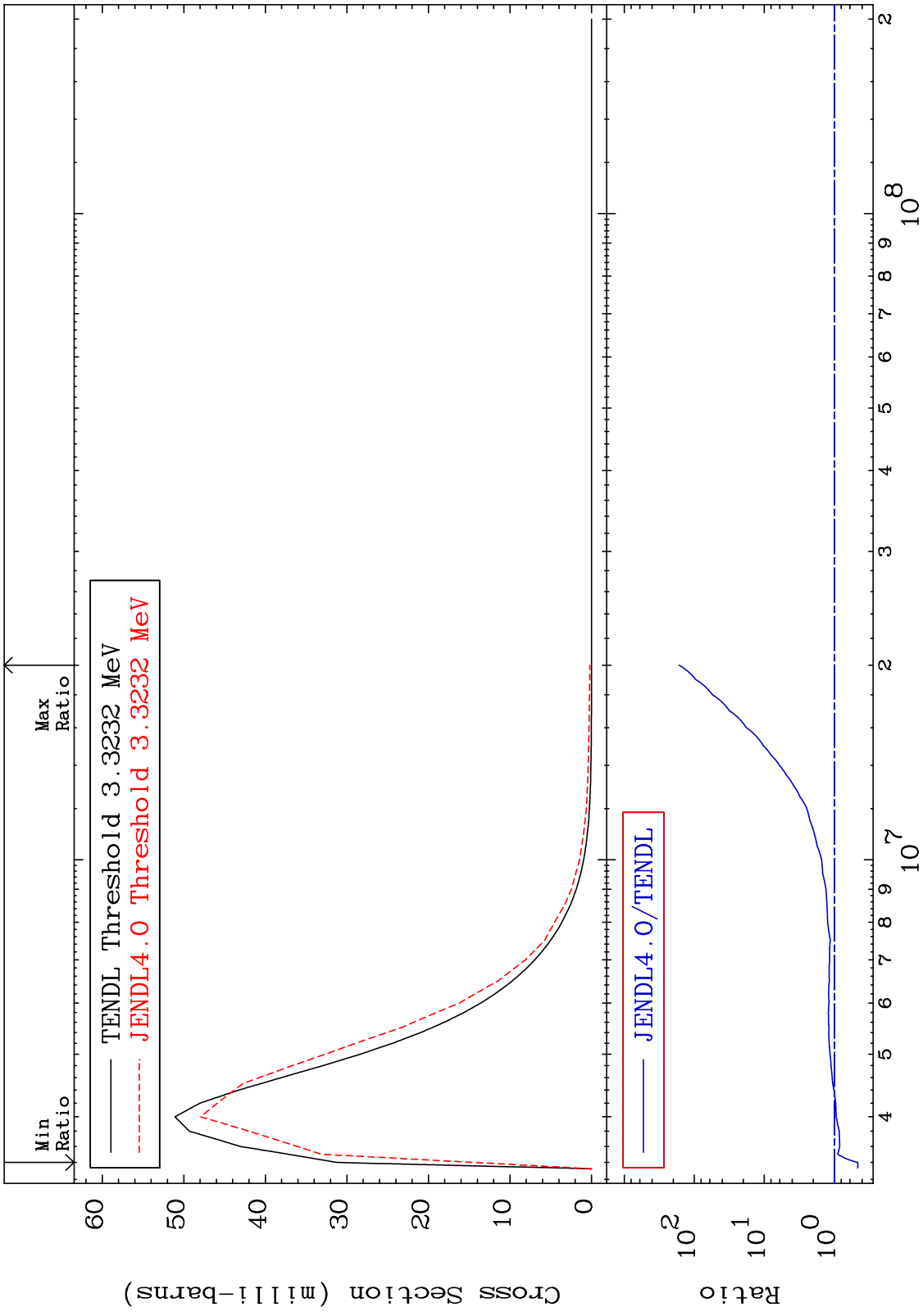
MAT 2837 MT= 59 (n,n') Level Cross Section -44.62 To 26.30 % 28-Ni-62



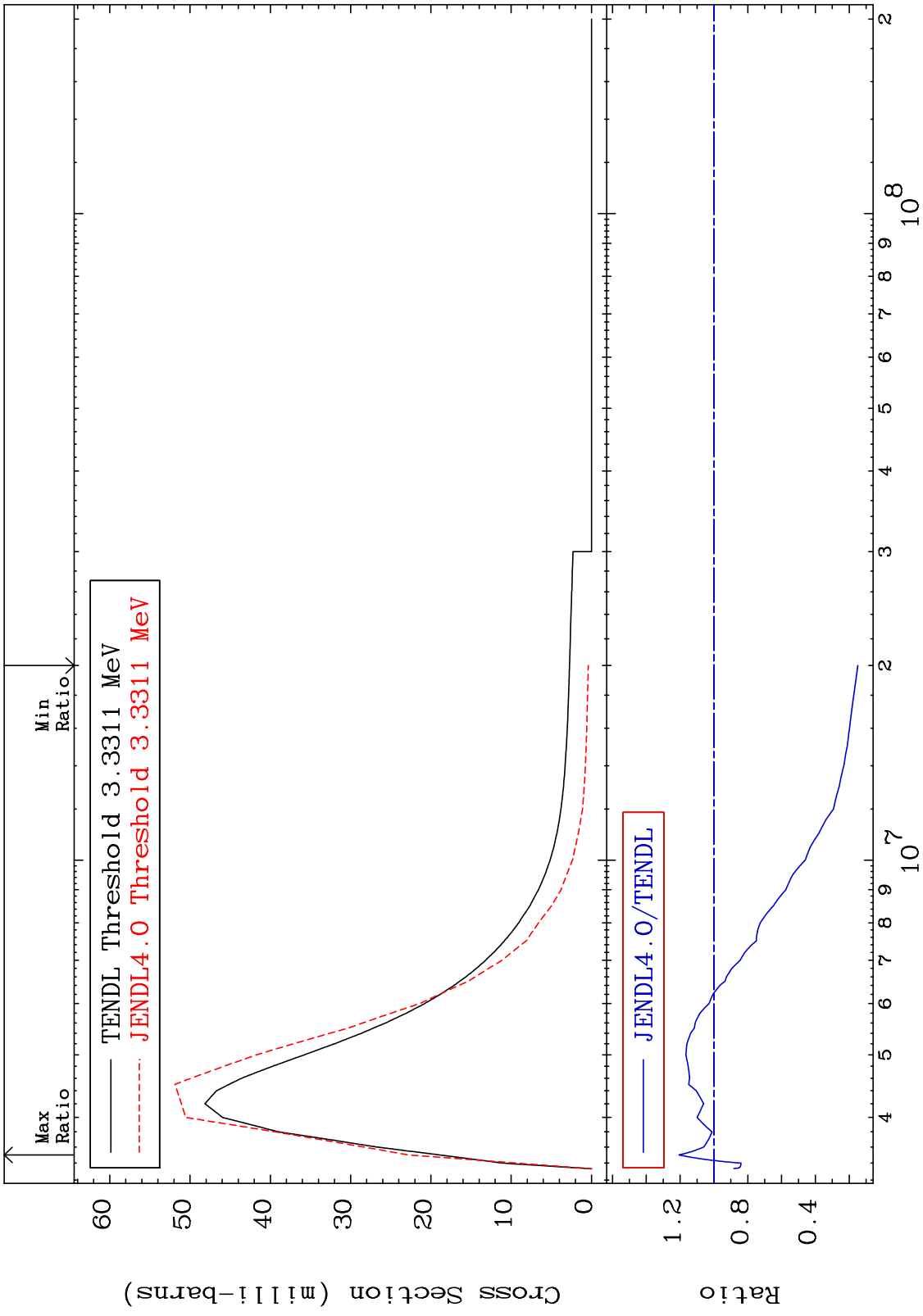
MAT 2837 MT= 60 (n,n') Level Cross Section 28-Ni-62
 -44.74 To 26.32 %



MAT 2837 MT= 61 (n,n') Level Cross Section -53.90 To 9999. % 28-Ni-62



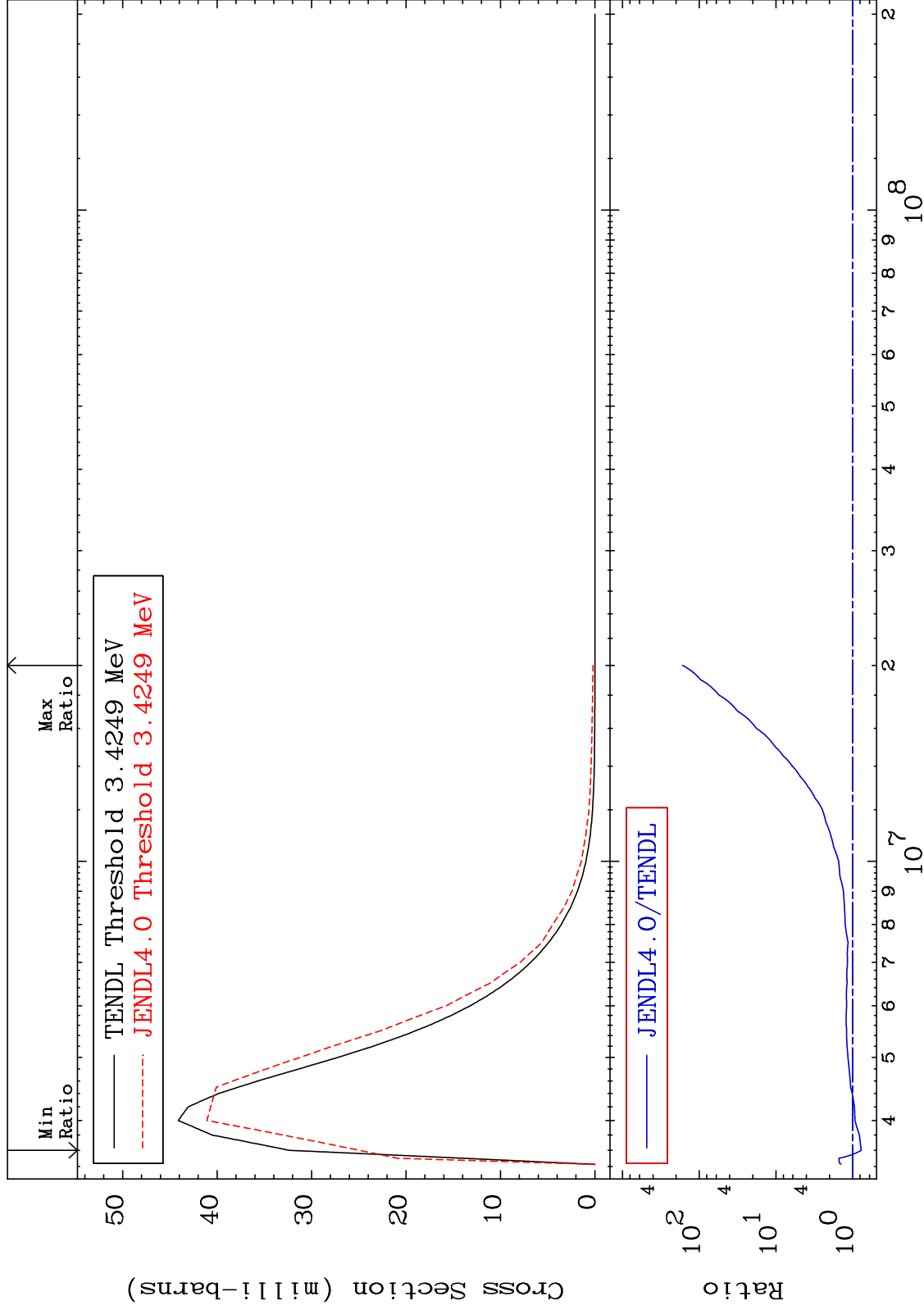
MAT 2837 MT= 62 (n,n') Level Cross Section -85.09 To 20.63 % 28-Ni-62



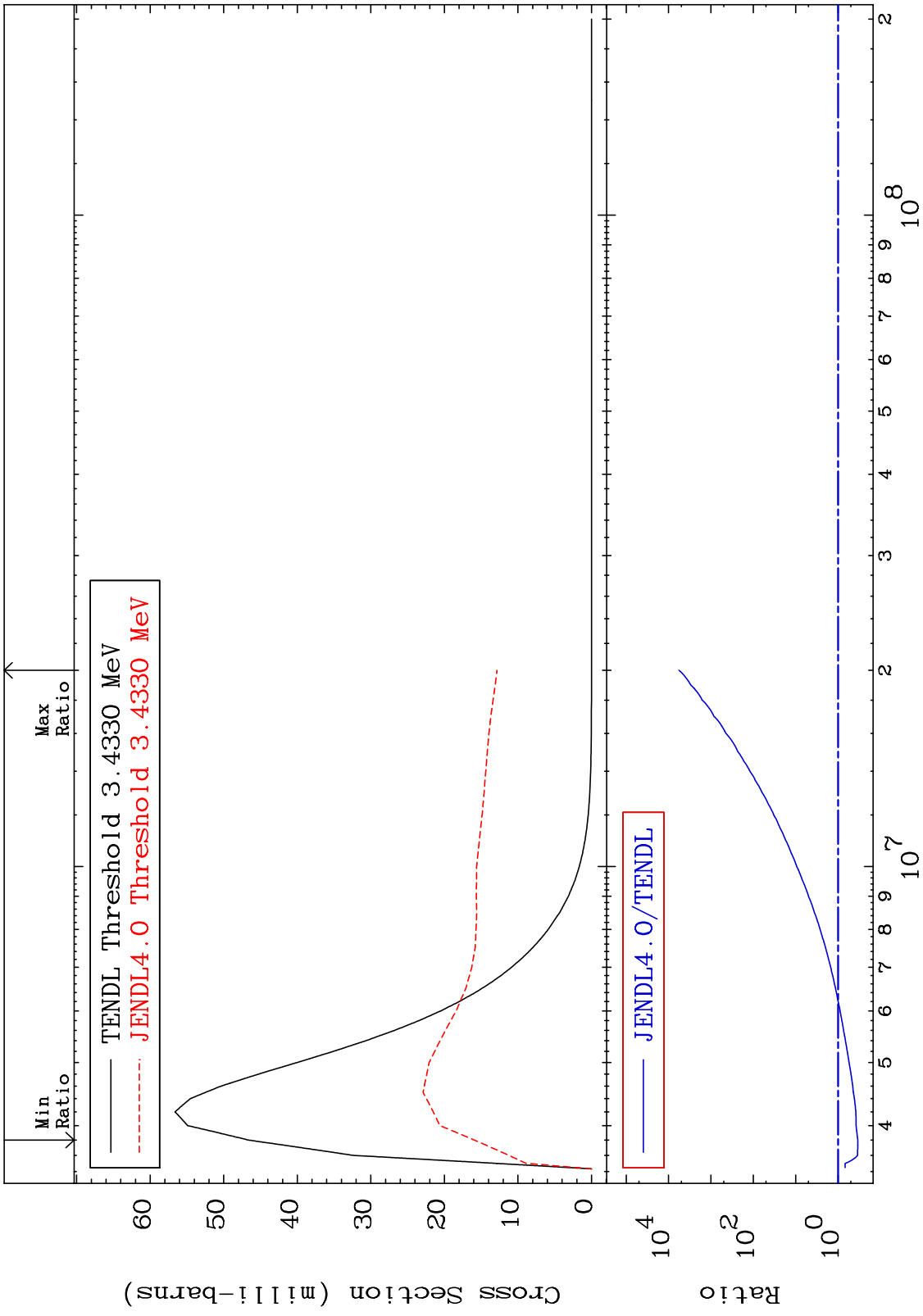
MAT 2837

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

28-Ni-62
-23.00 To 9999. %



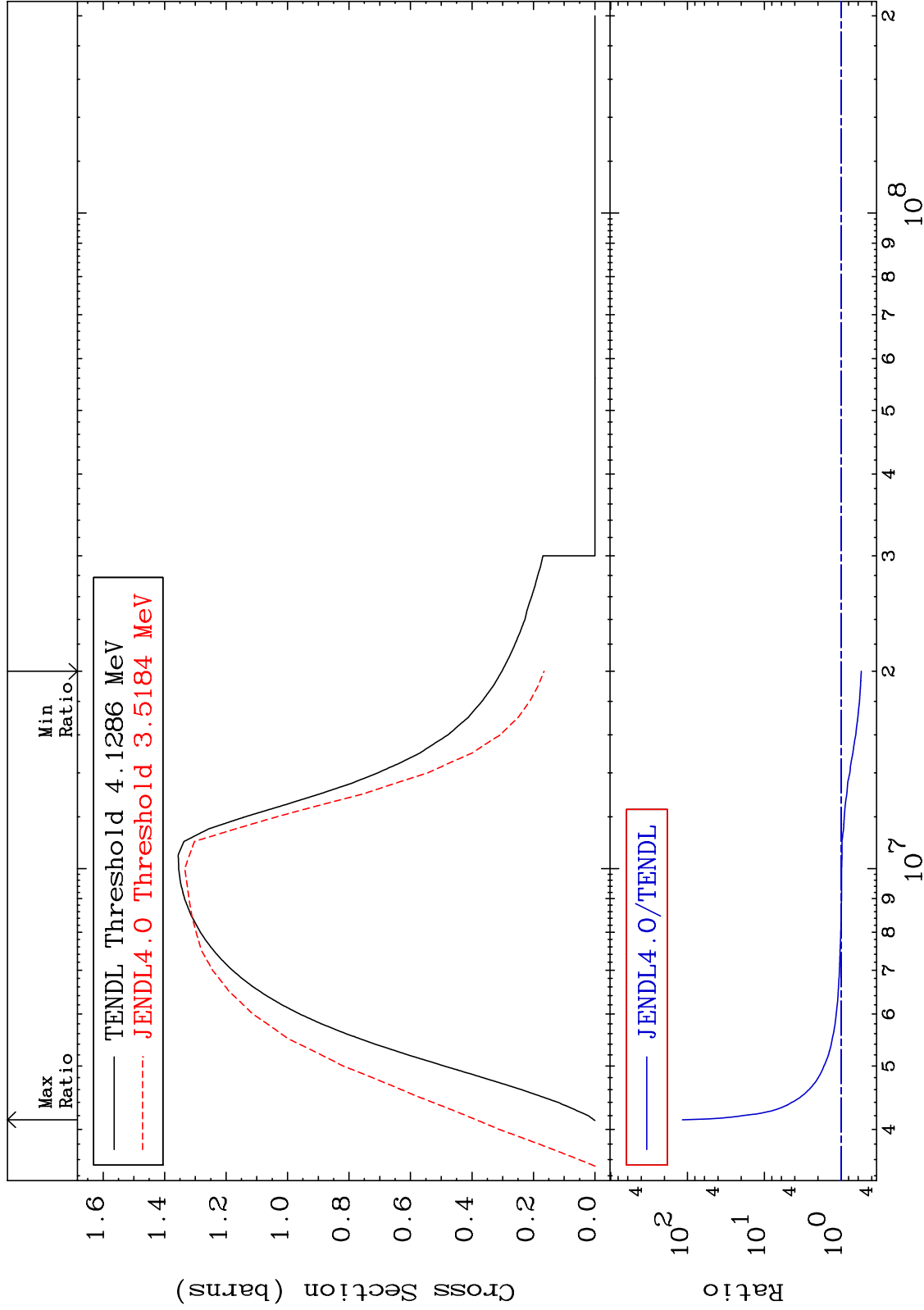
MAT 2837 MT= 64 (n,n') Level Cross Section -65.83 To 9999. % 28-Ni-62



MAT 2837

(n,n') Continuum
Cross Section

28-Ni-62
-45.35 To 9999. %



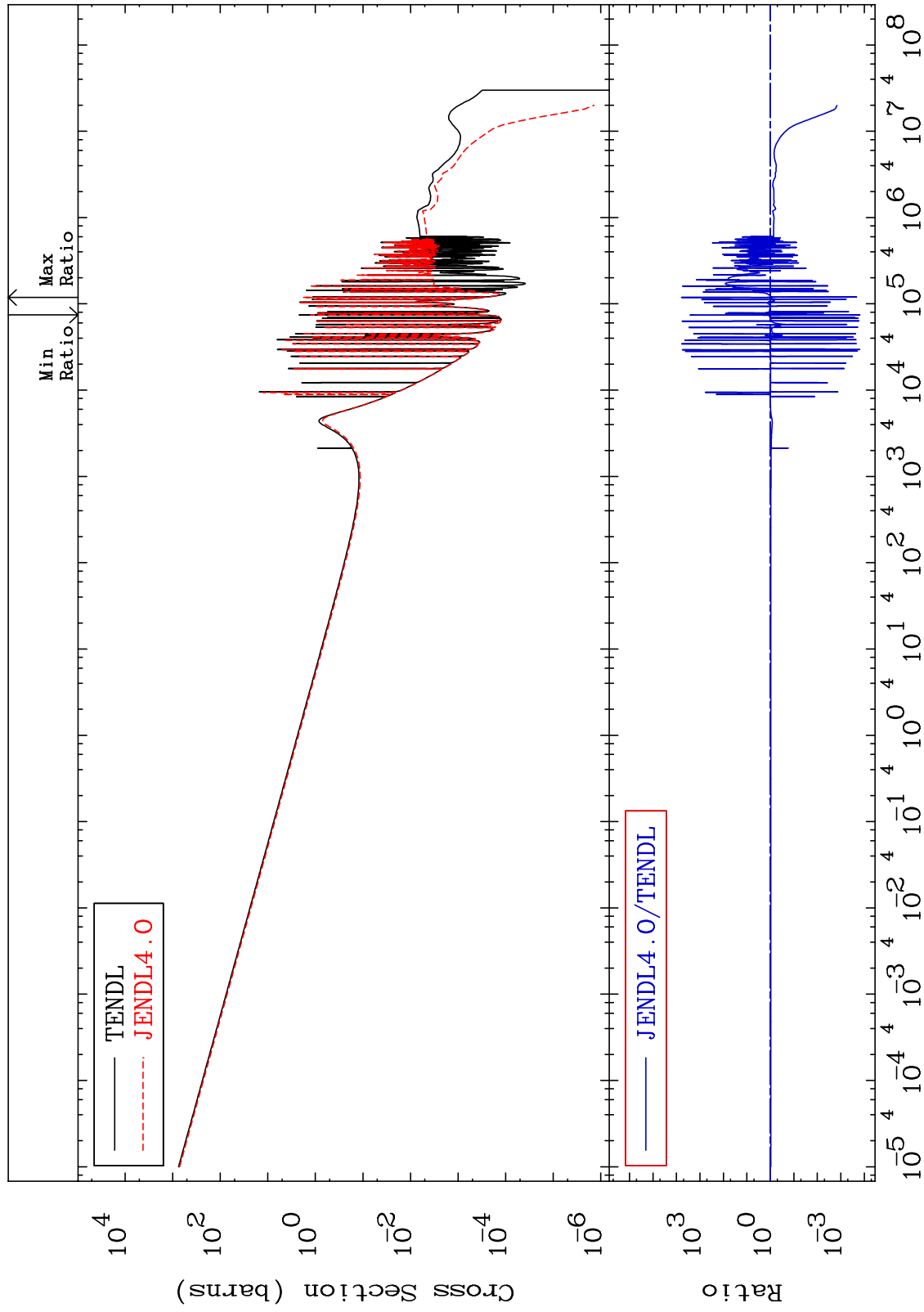
MAT 2837

(n, γ)

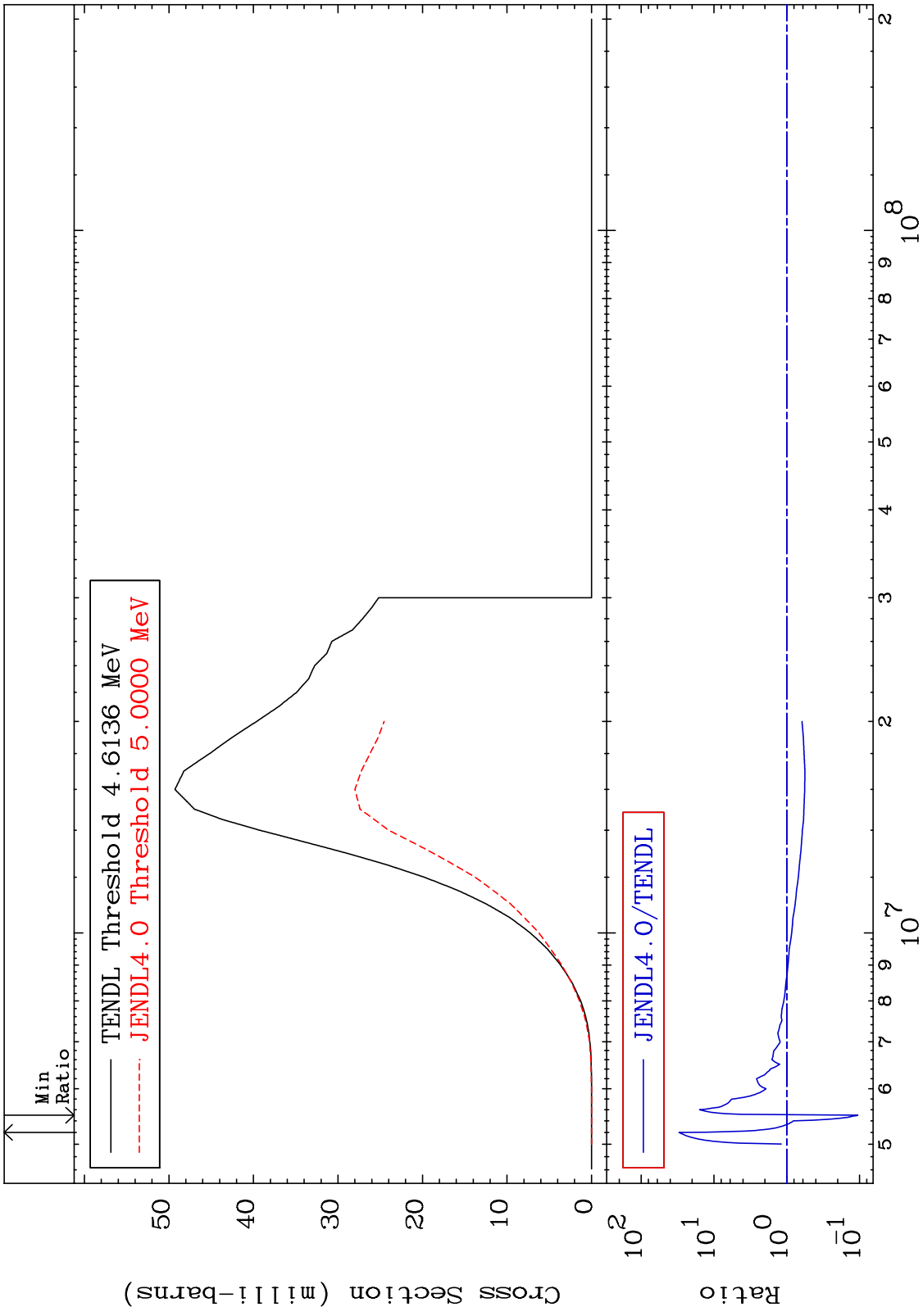
28-Ni-62

Cross Section

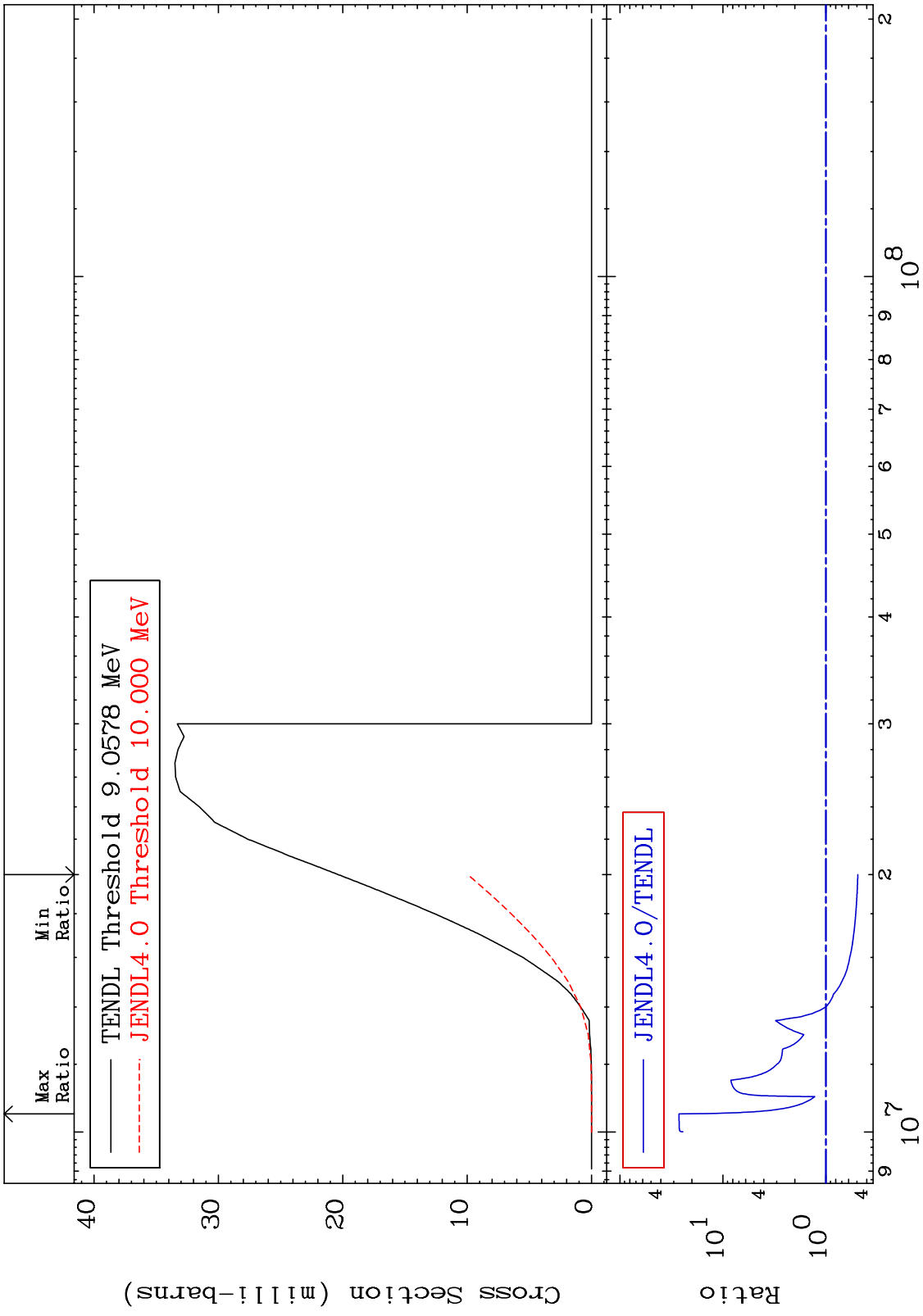
-99.98 To 9999. %

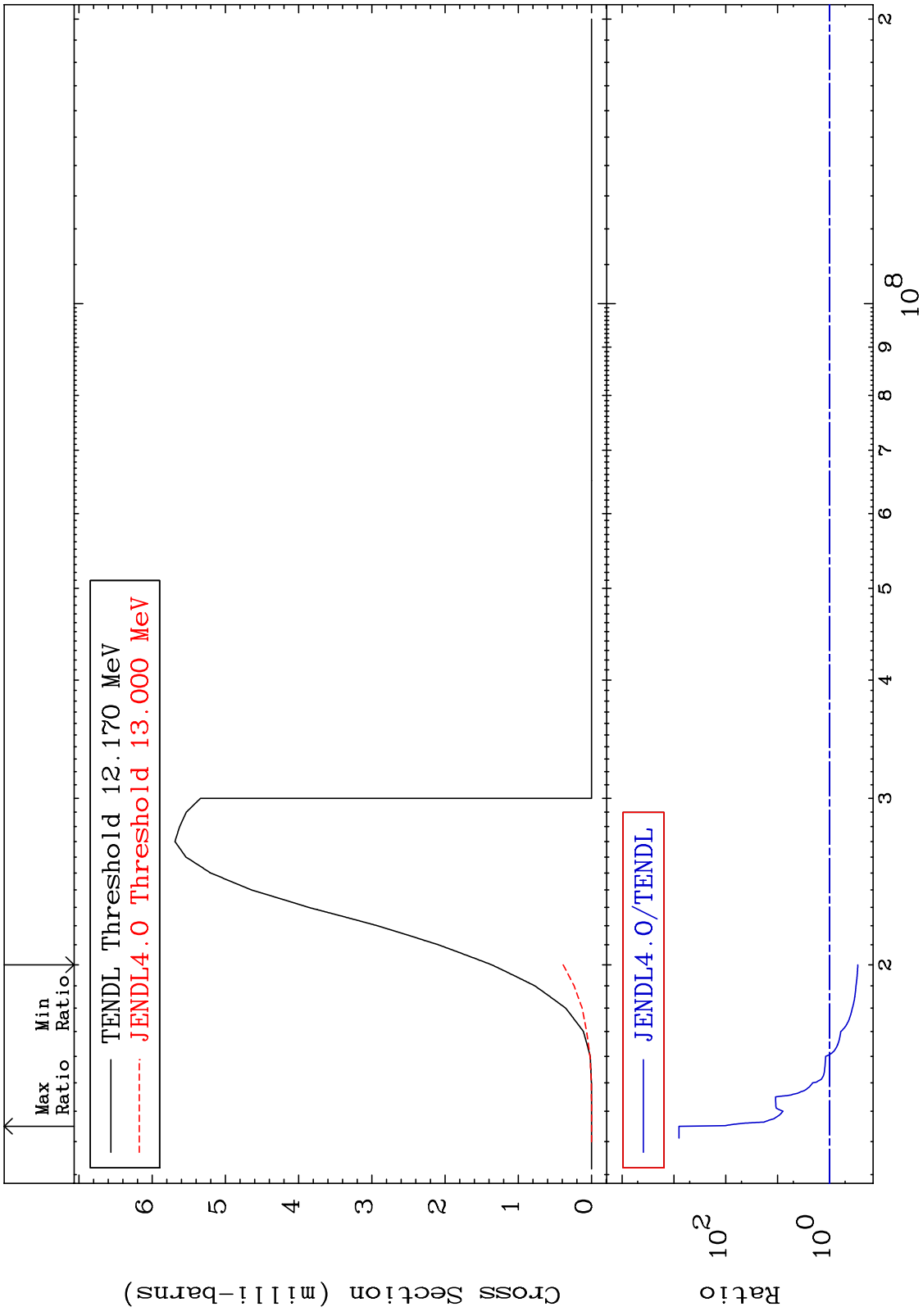


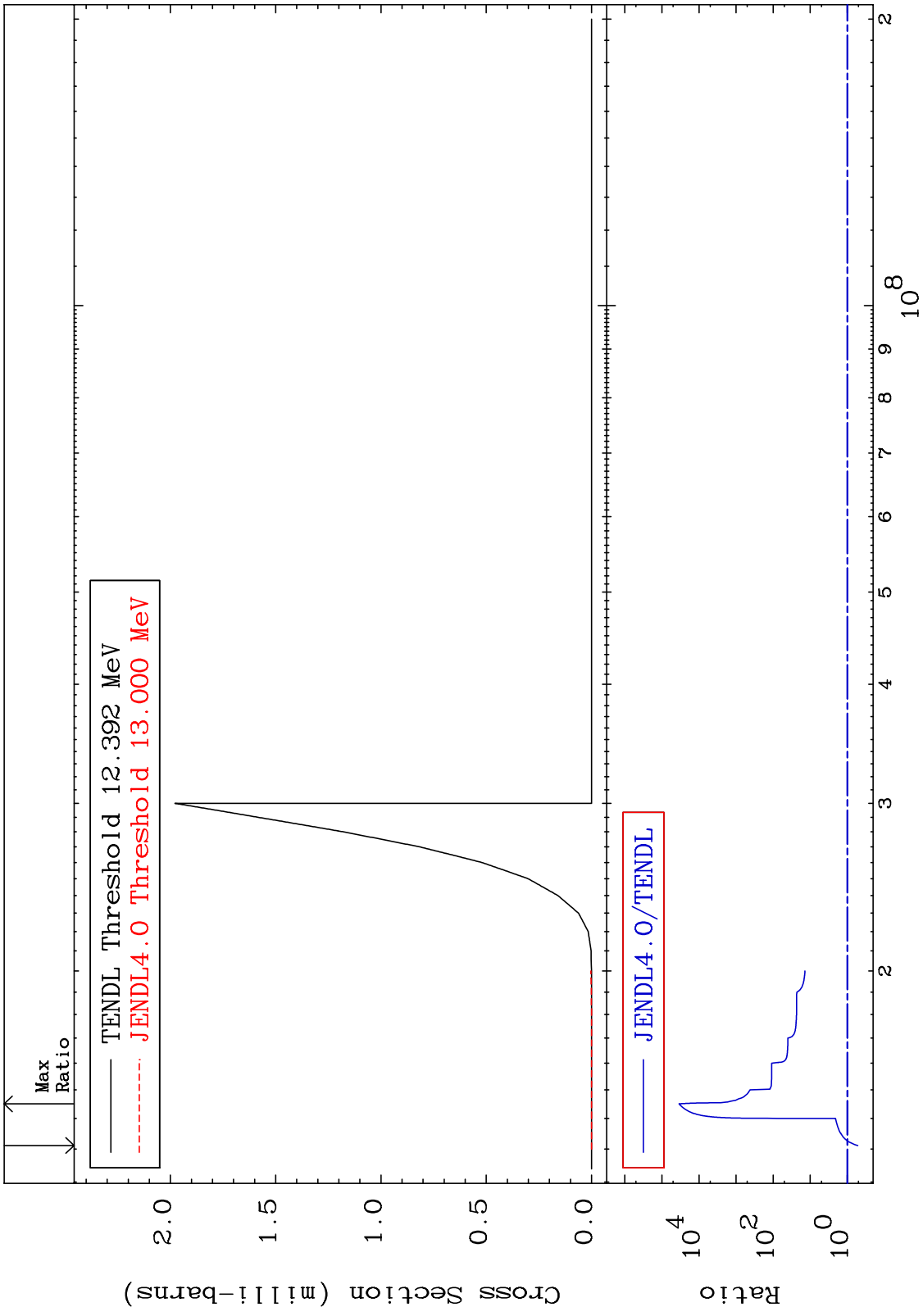
MAT 2837 (n,p) 28-Ni-62
Cross Section -89.42 To 2924. %



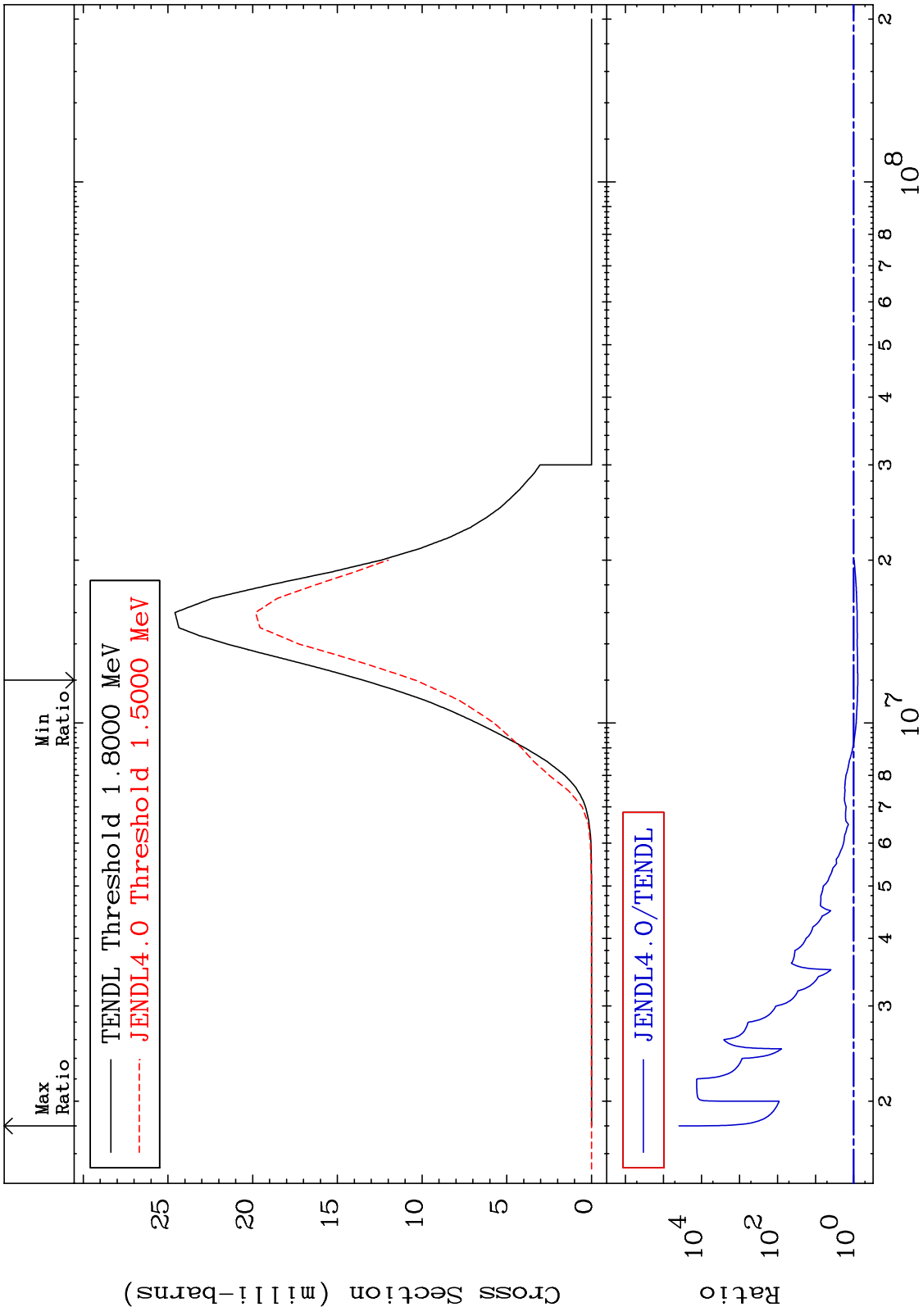
24 28-Ni-62 Incident Energy (eV)



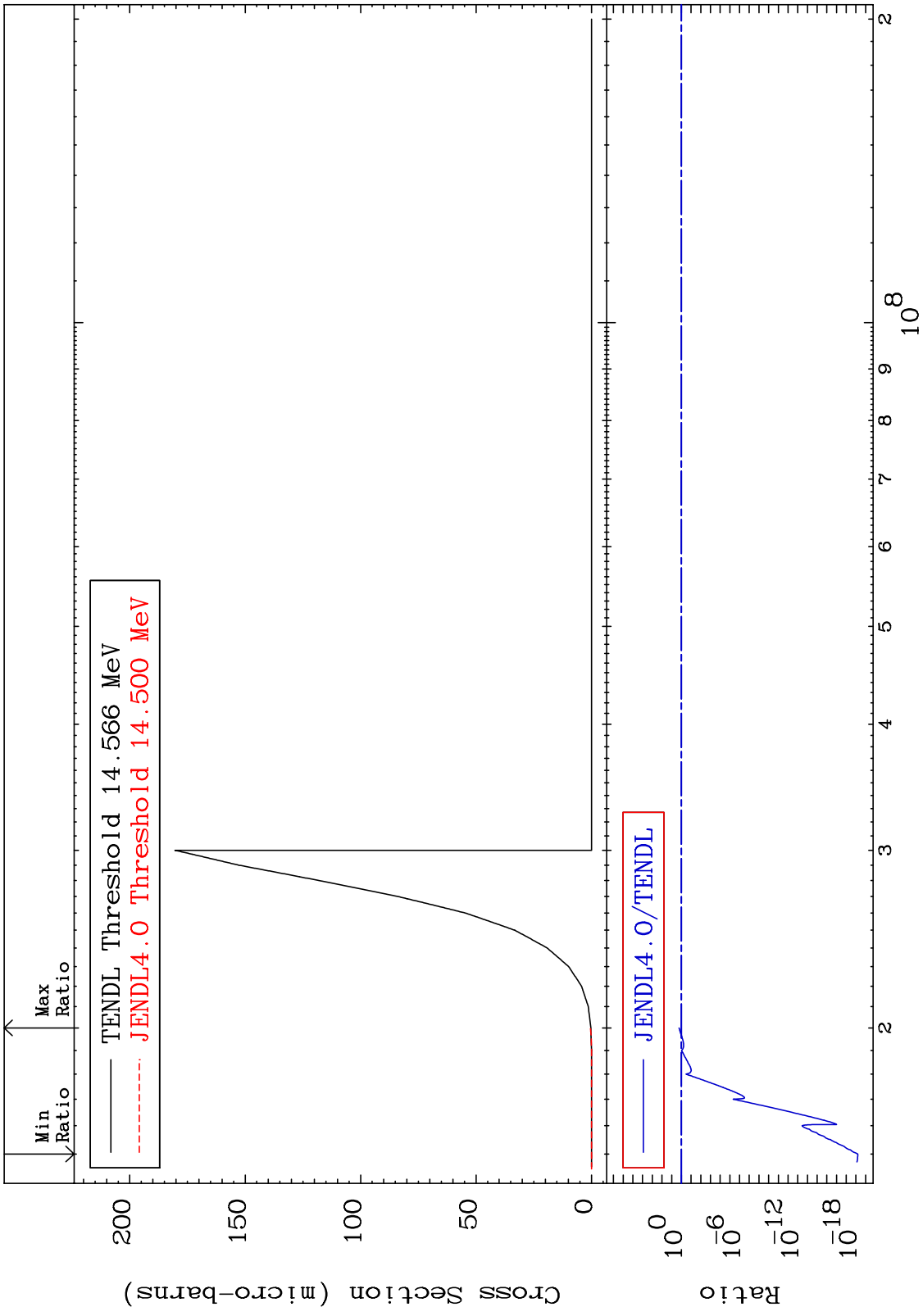




MAT 2837 (n,α) 28-Ni-62 -22.88 To 9999. % Cross Section



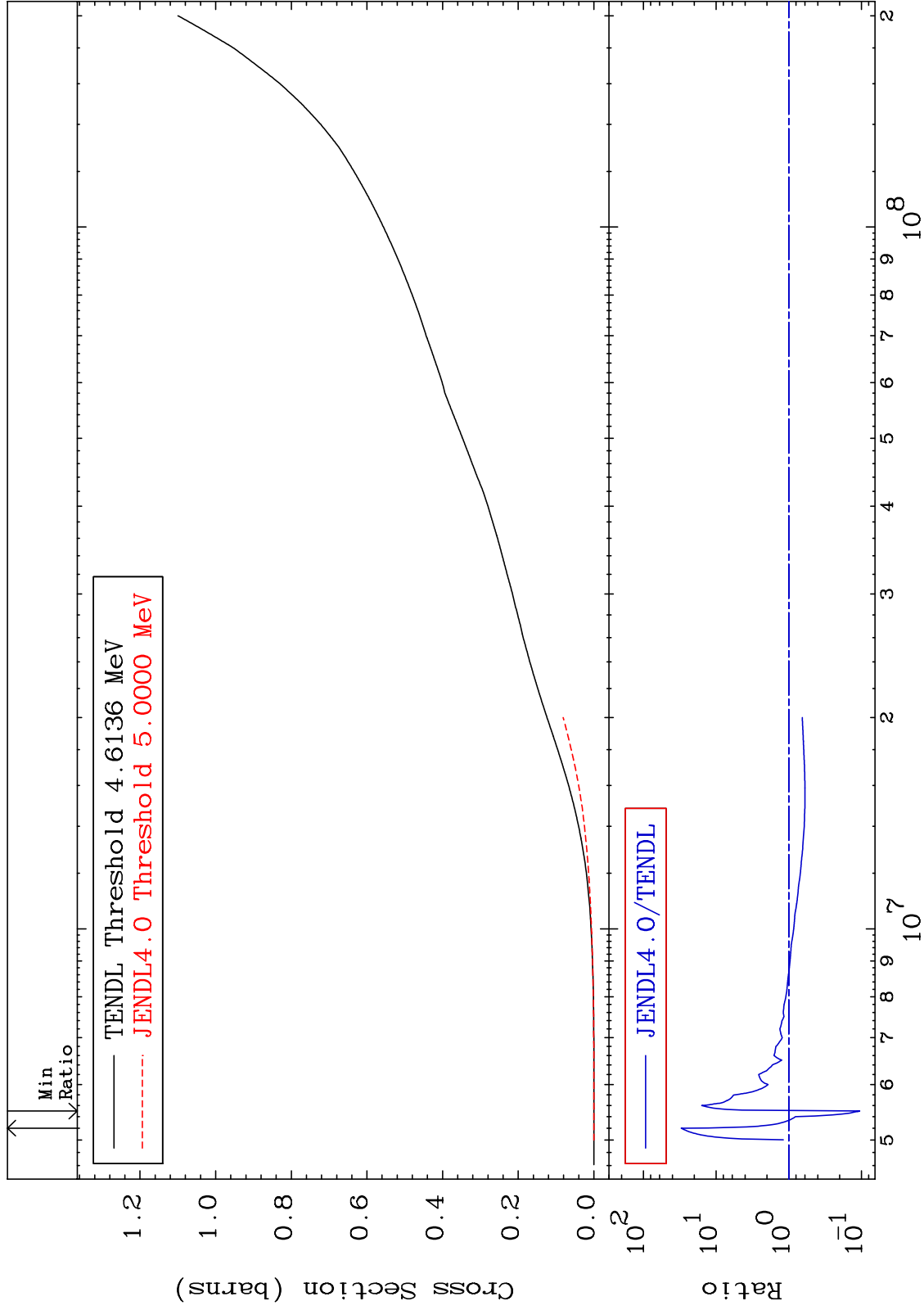
MAT 2837 (n,2p) 28-Ni-62
 Cross Section -100.0 To 73.56 %



MAT 2837

Hydrogen Production
Cross Section

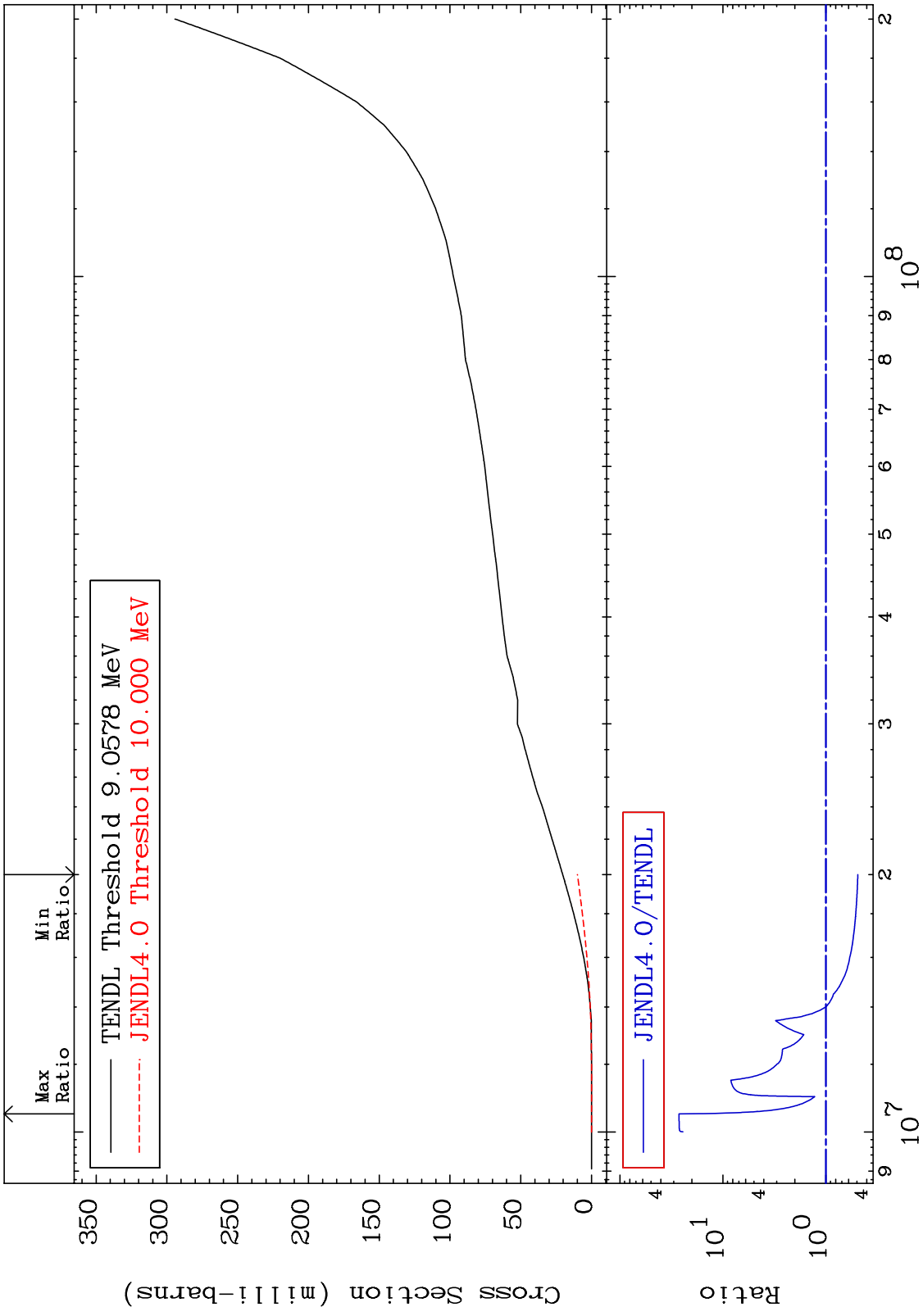
28-Ni-62
-89.42 To 2924. %



30

Incident Energy (eV)

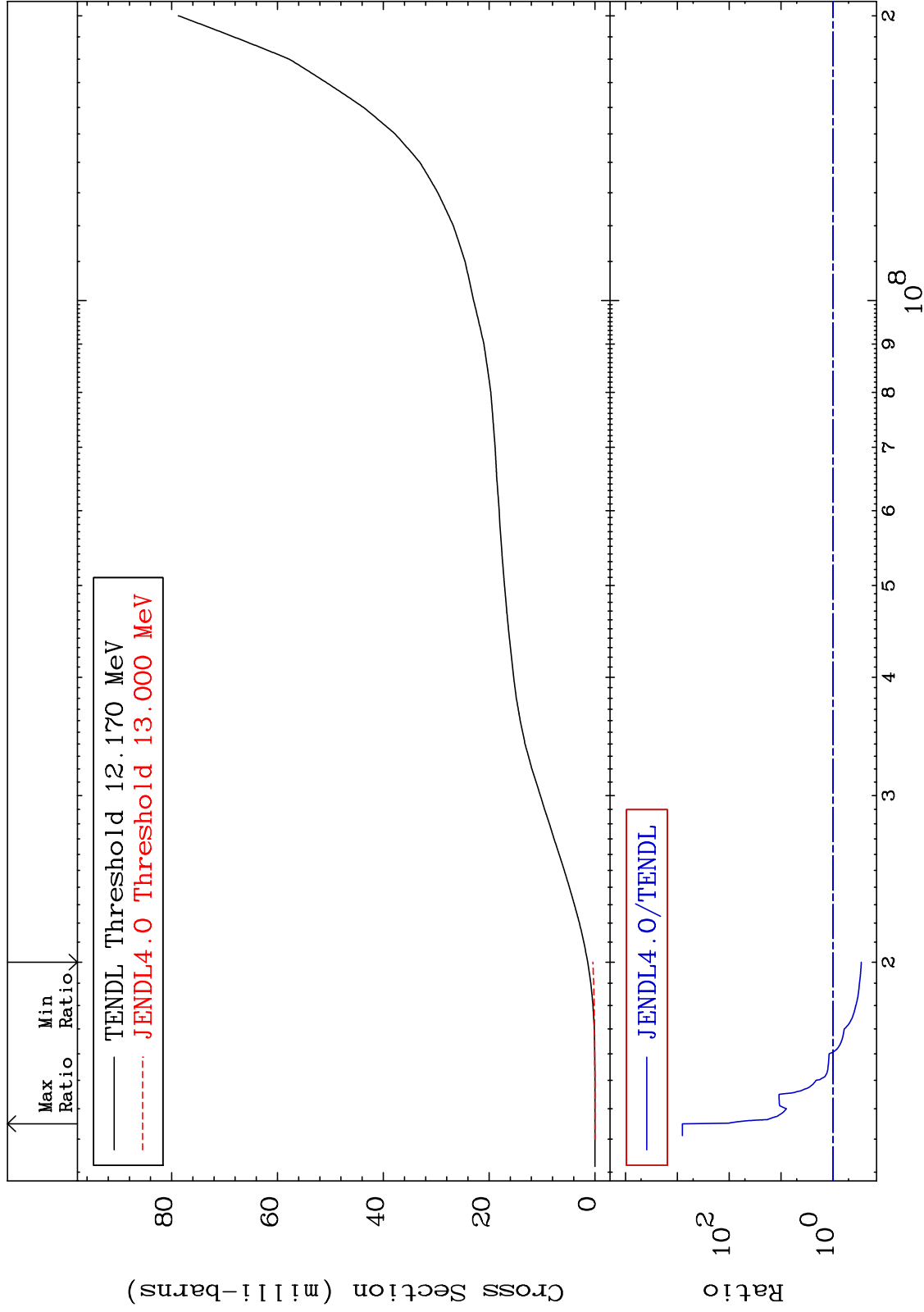
28-Ni-62



MAT 2837

Tritium Production
Cross Section

28-Ni-62
-71.61 To 9999. %



32

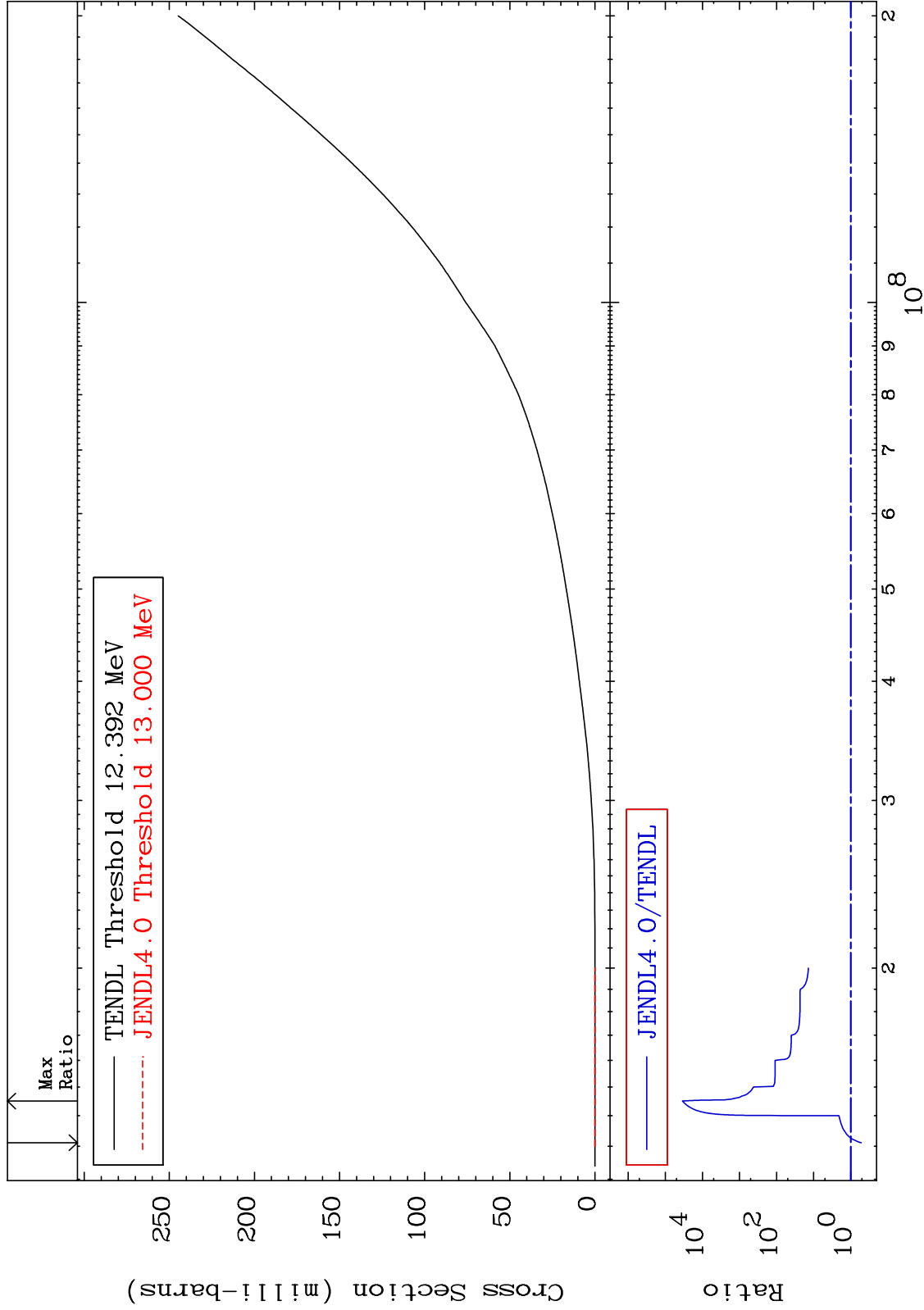
Incident Energy (eV)

28-Ni-62

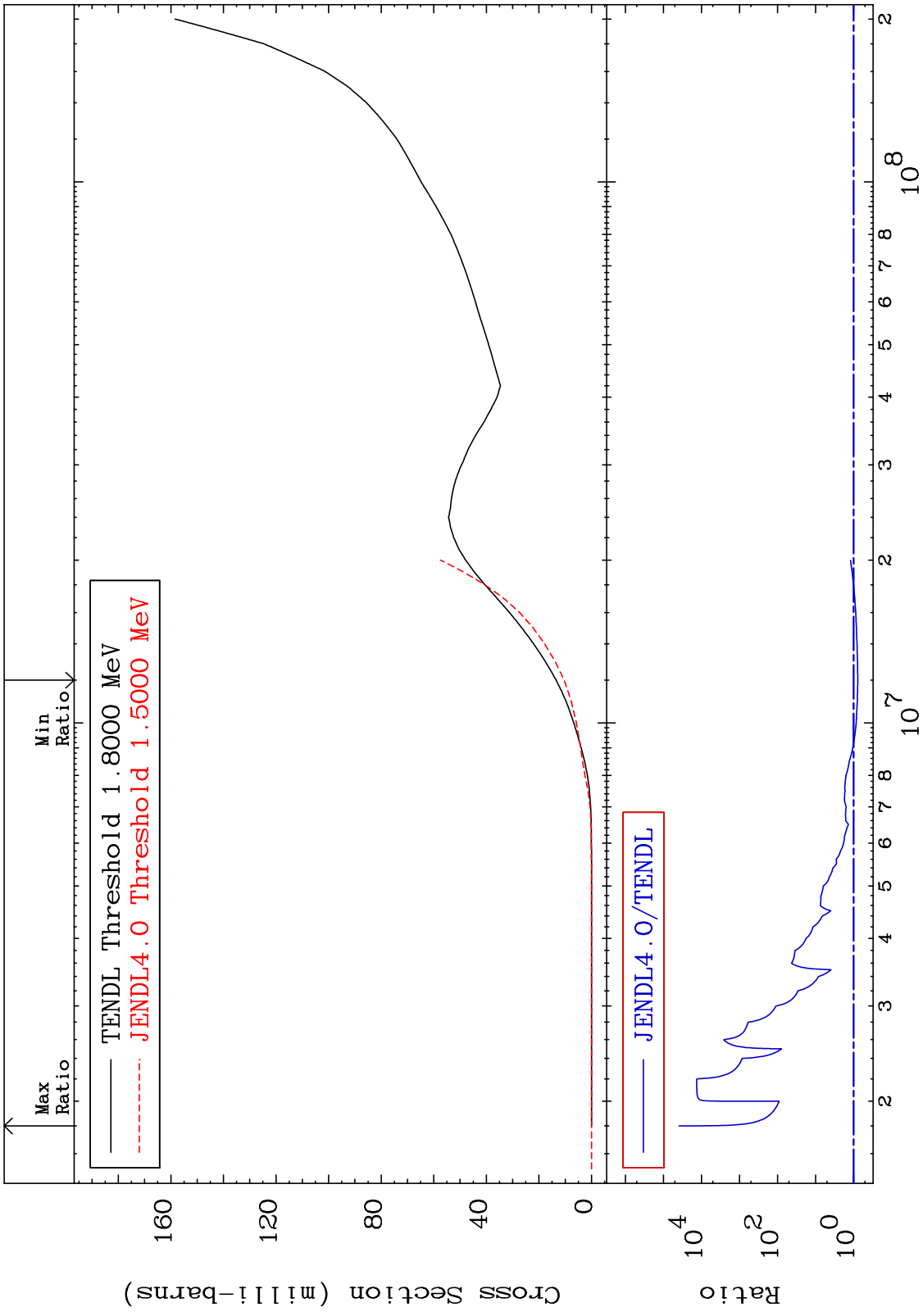
MAT 2837

He-3 Production
Cross Section

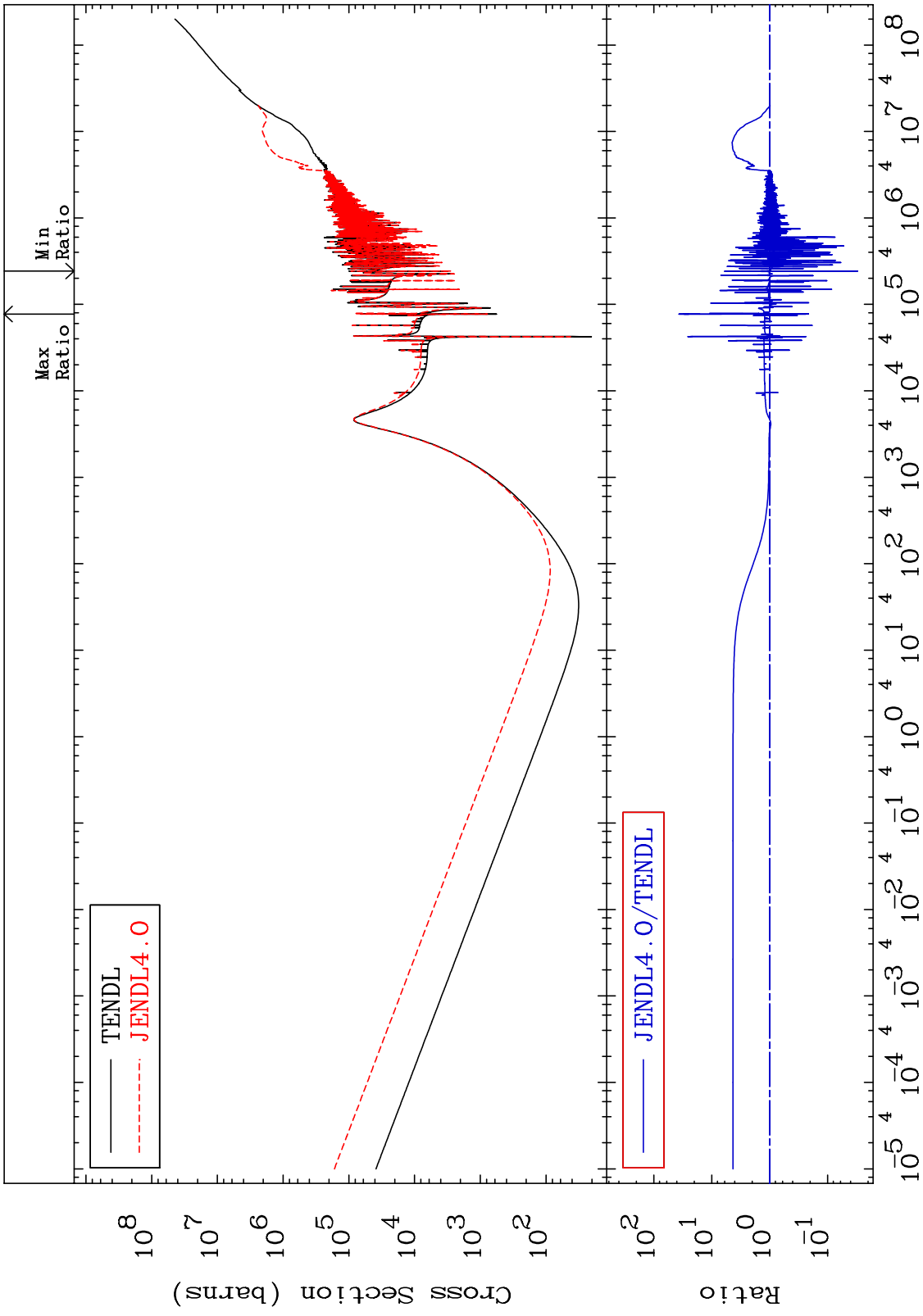
28-Ni-62
-47.96 To 9999. %



MAT 2837 He-4 Production Cross Section -22.81 To 9999. % 28-Ni-62



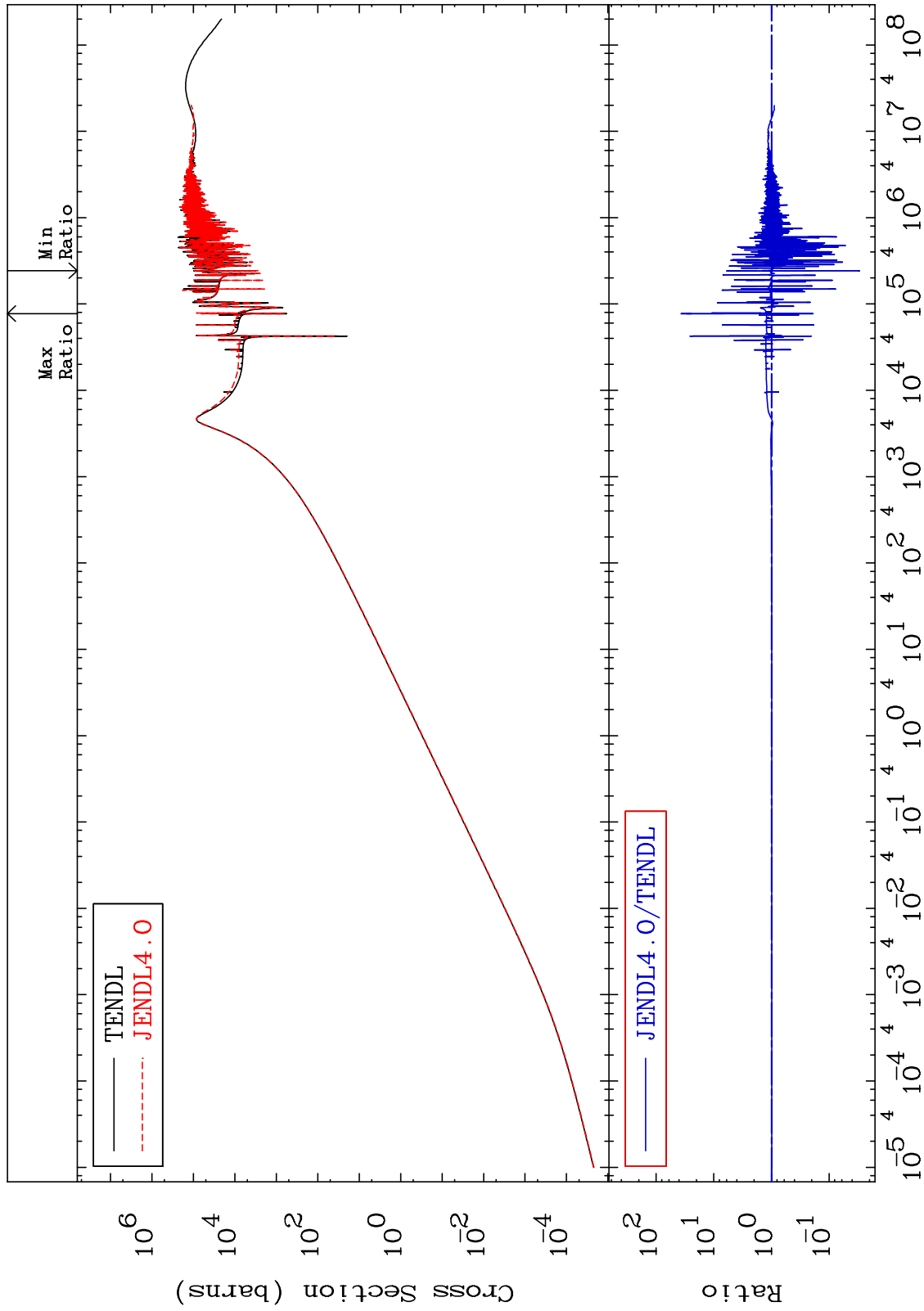
MAT 2837 Kerma total (eV-barns) 28-Ni-62
 Cross Section -96.99 To 3569. %



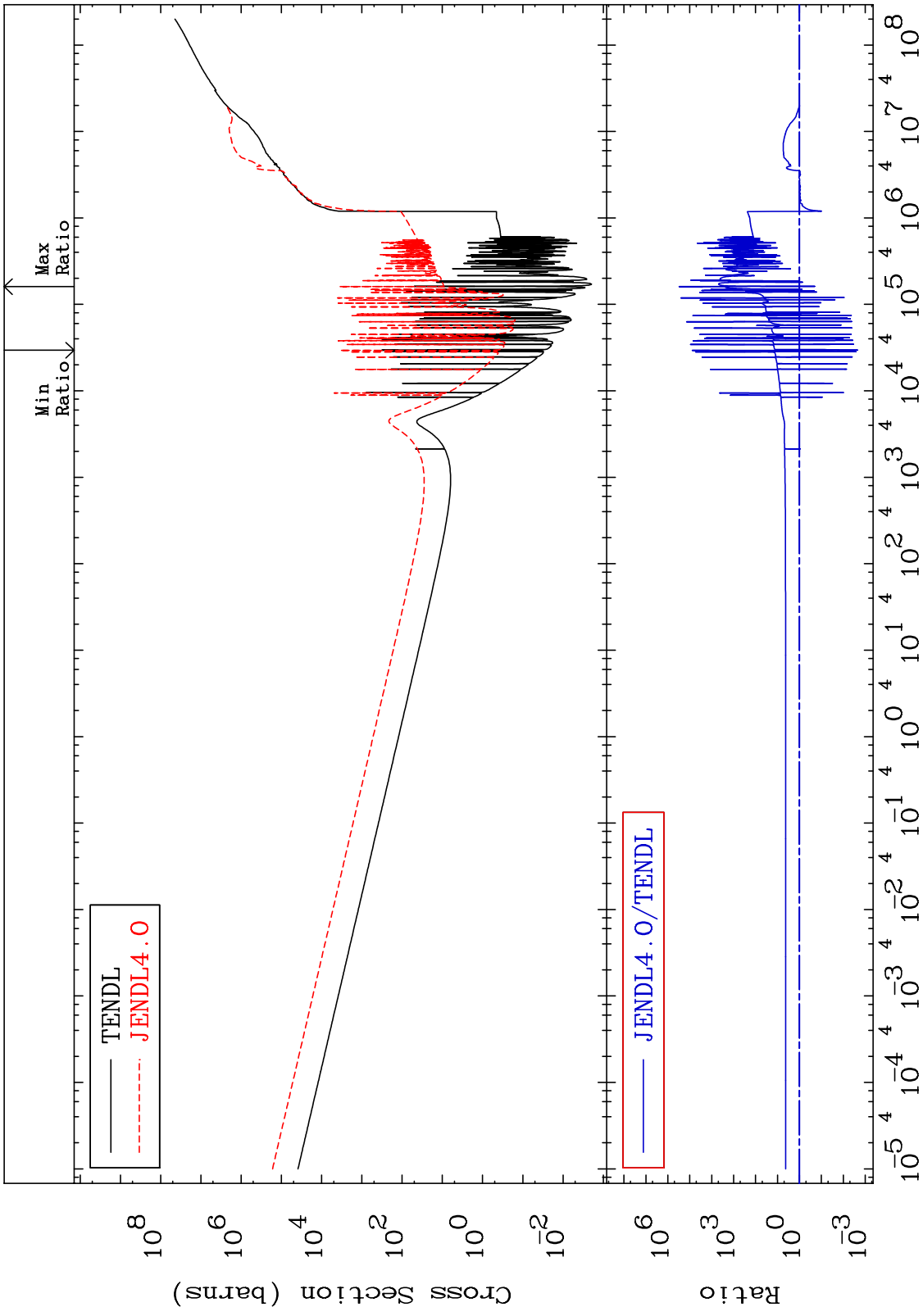
MAT 2837

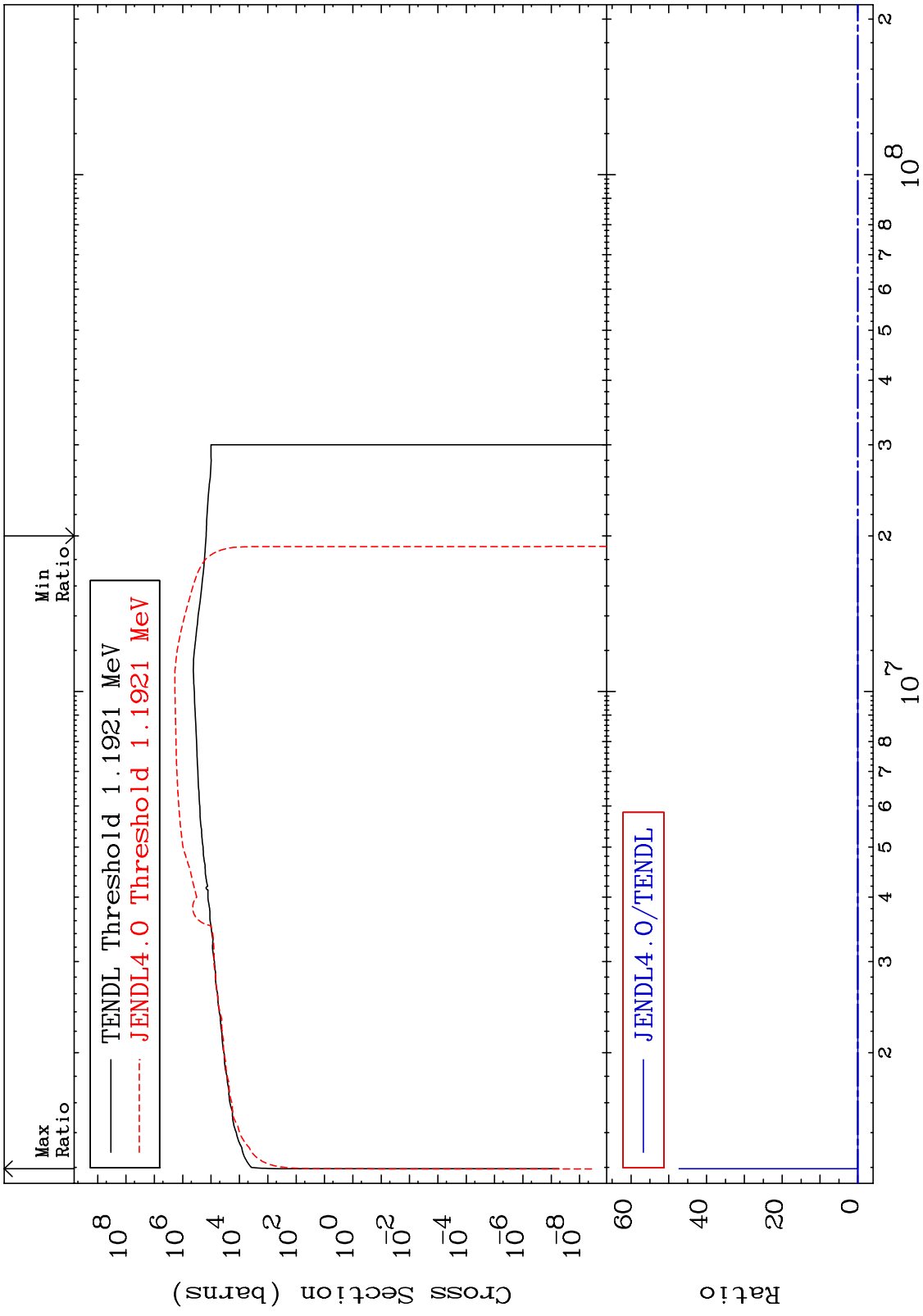
Kerma elastic
Cross Section

28-Ni-62
-97.06 To 3568. %



MAT 2837 Kerma non-elastic (all but mt2) 28-Ni-62
 Cross Section -99.78 To 9999. %

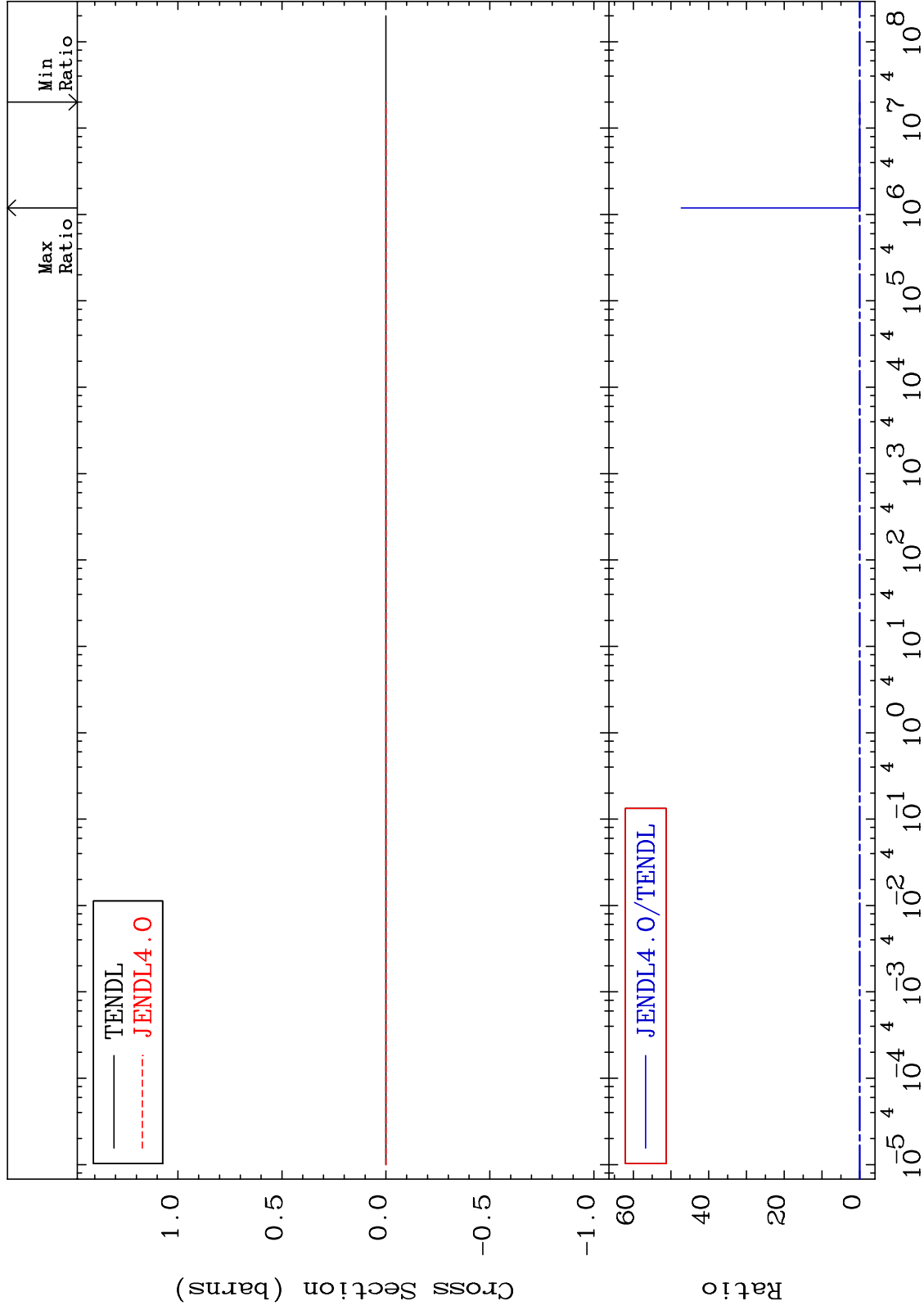




MAT 2837

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

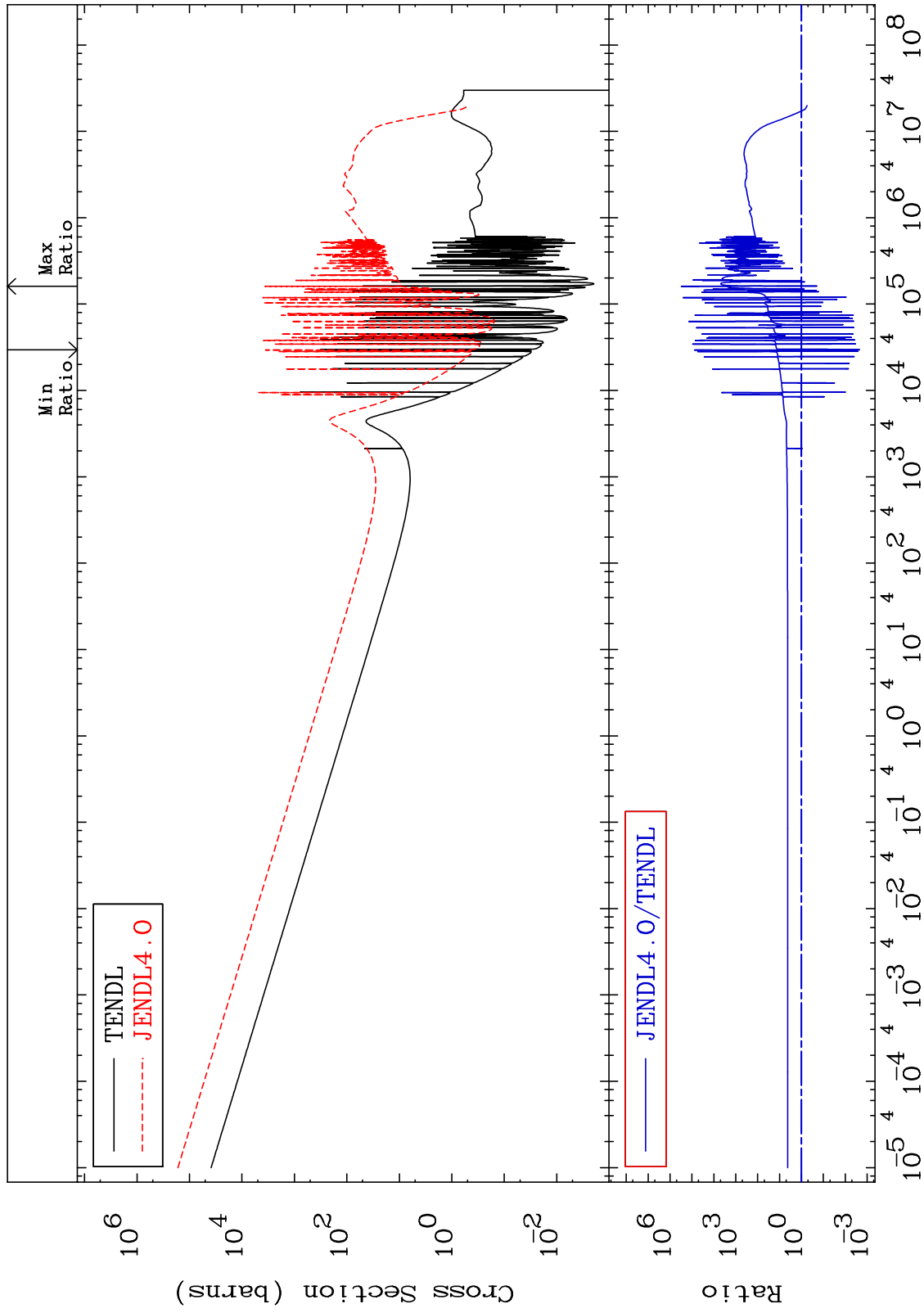
28-Ni-62
-214.3 To 9999. %



MAT 2837

Kerma capture (mt102)
Cross Section

28-Ni-62
-99.78 To 9999. %



40

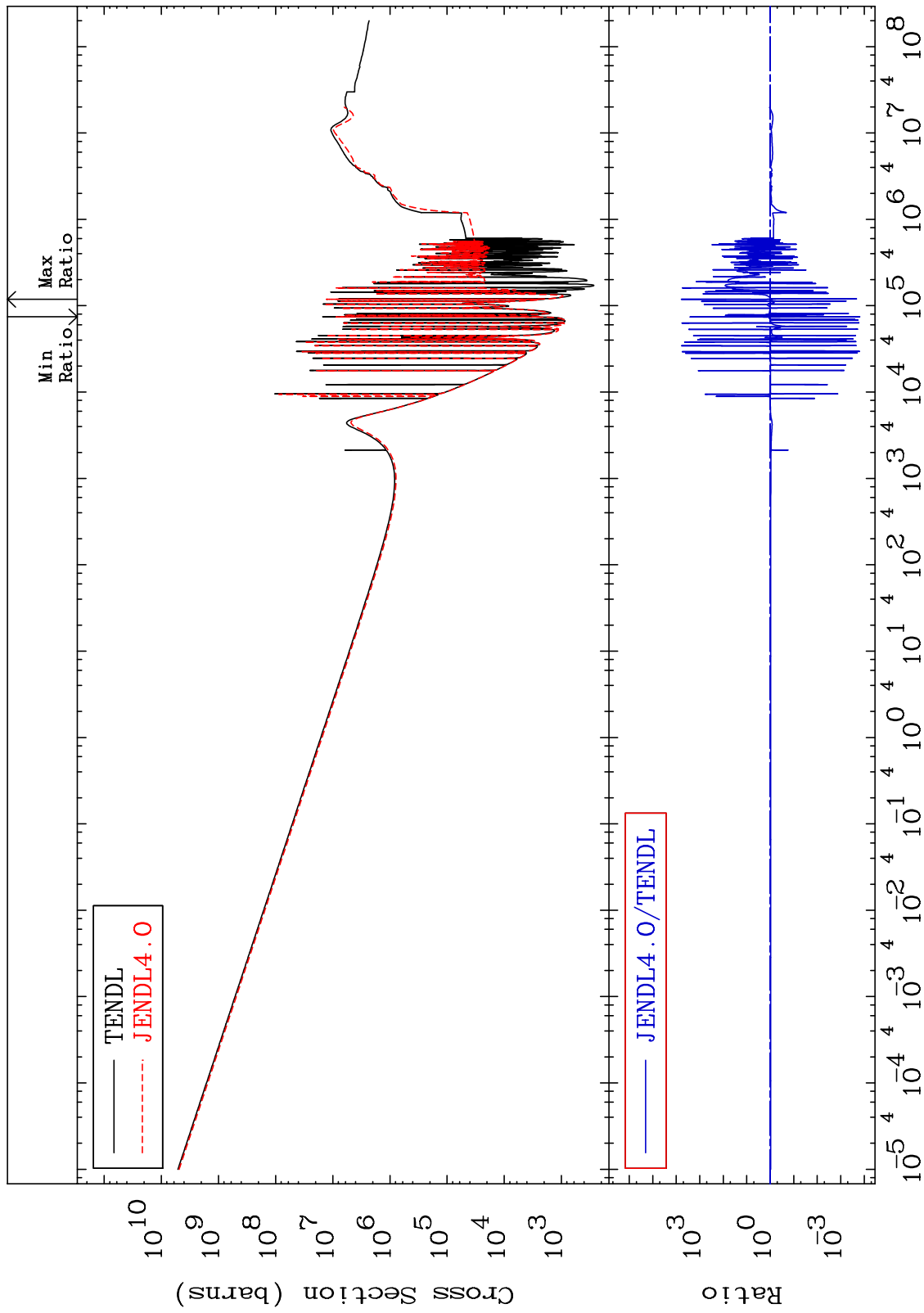
Incident Energy (eV)

28-Ni-62

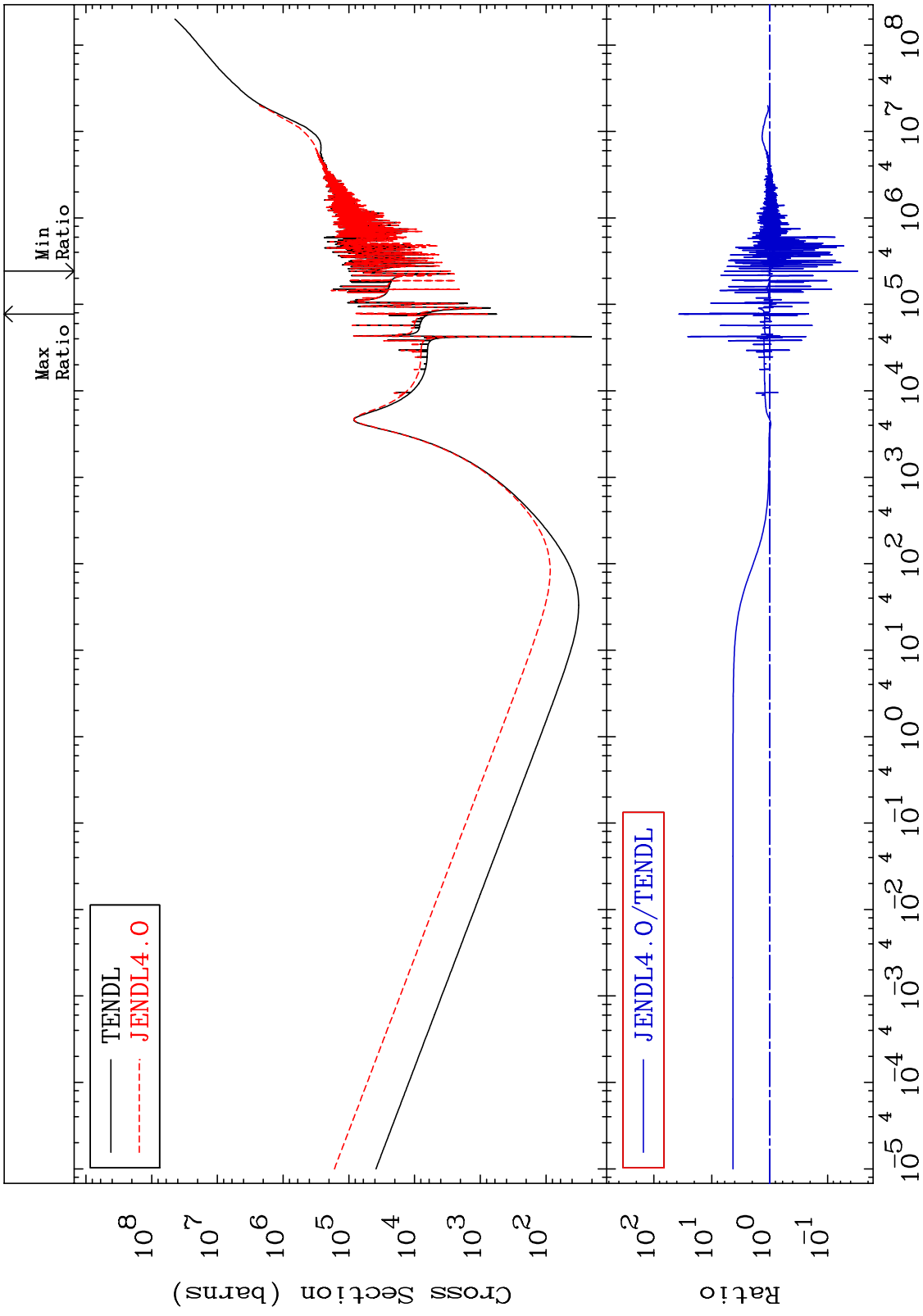
MAT 2837

Total photon (eV-barns)
Cross Section

28-Ni-62
-99.98 To 9999. %



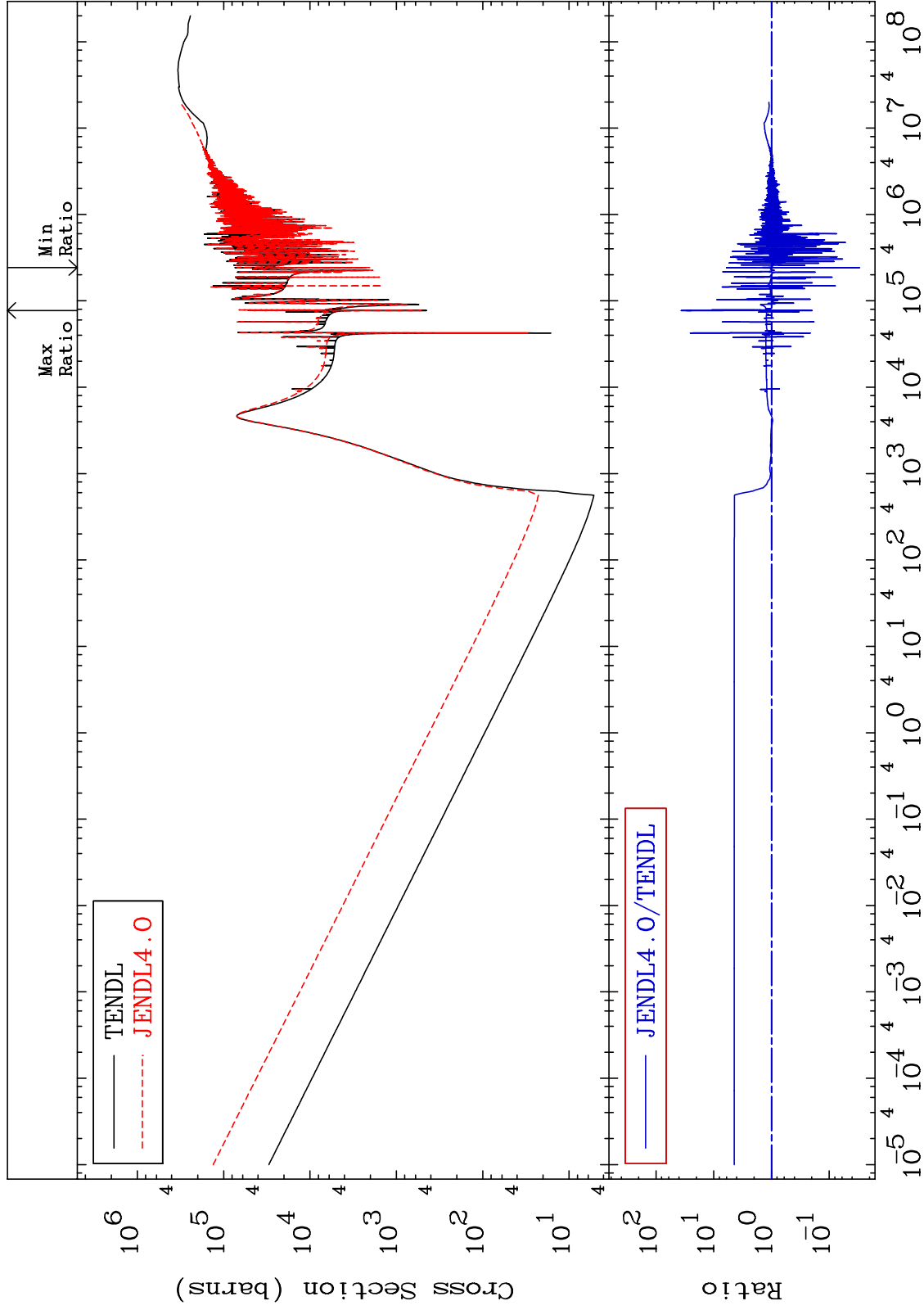
MAT 2837 Total kinematic kerma (high limit) Cross Section -96.99 To 3569. % 28-Ni-62



MAT 2837

Dpa total (eV-barns)
Cross Section

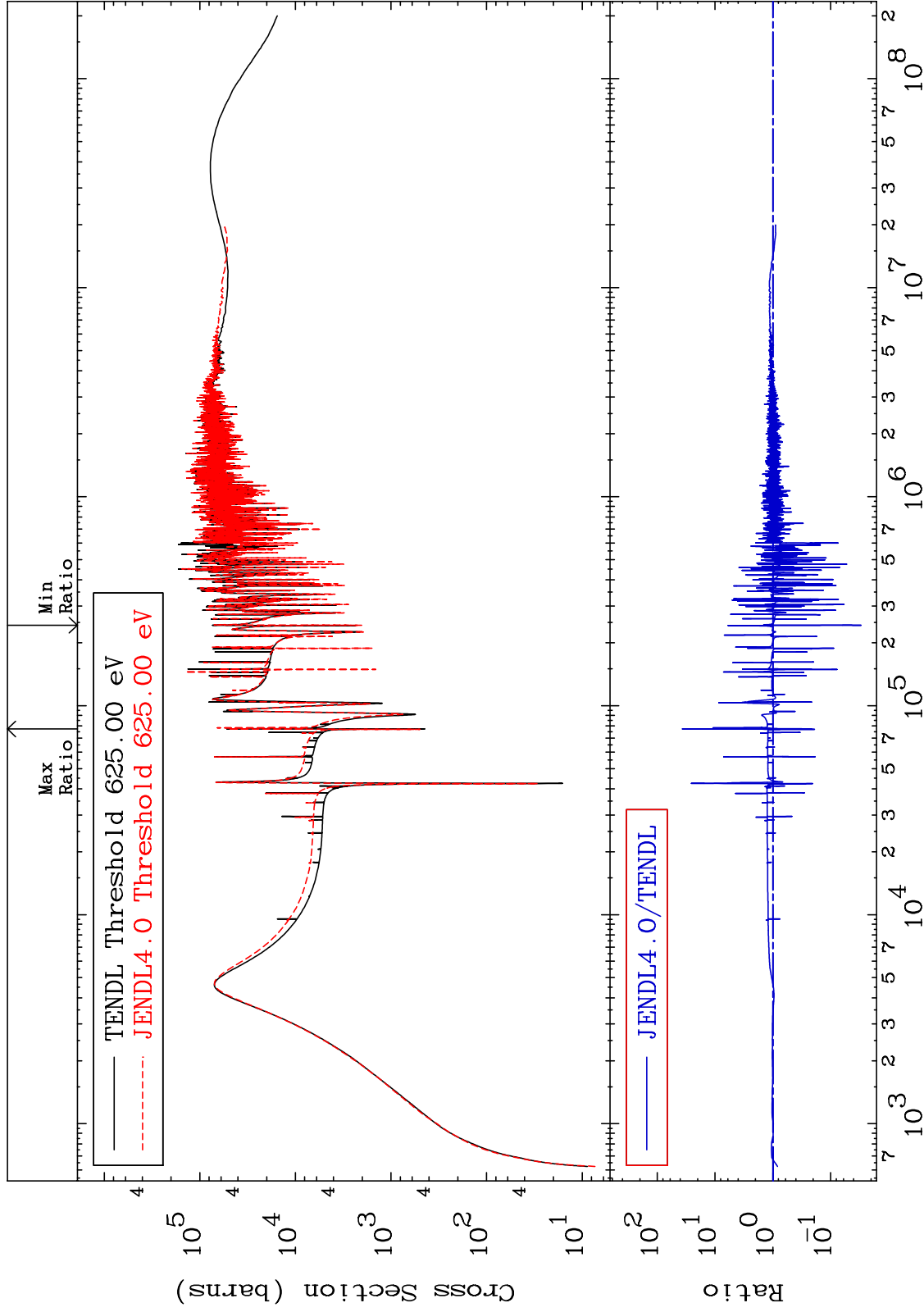
28-Ni-62
-97.05 To 3557. %



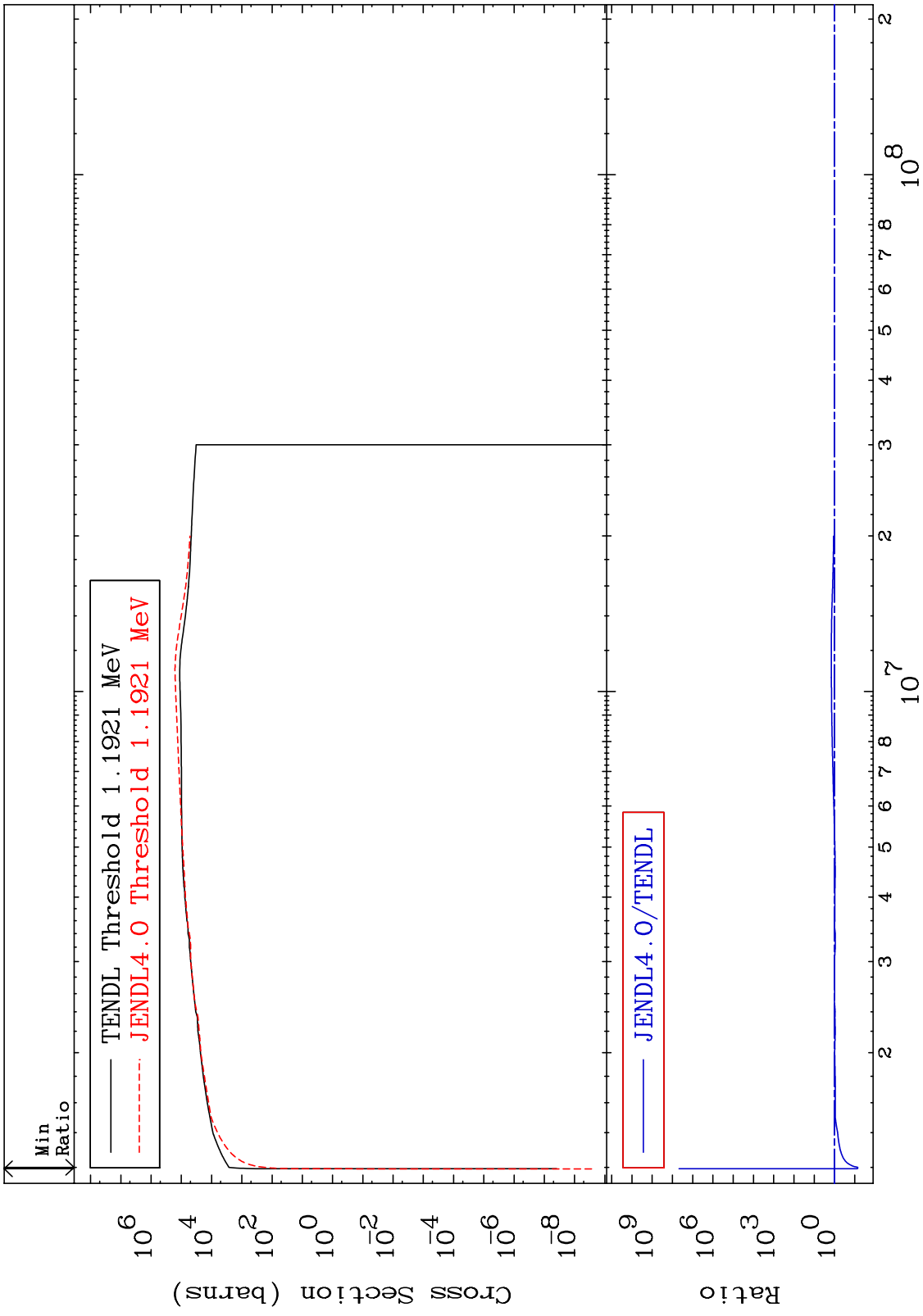
MAT 2837

Dpa elastic (mt2)
Cross Section

28-Ni-62
-97.06 To 3569. %



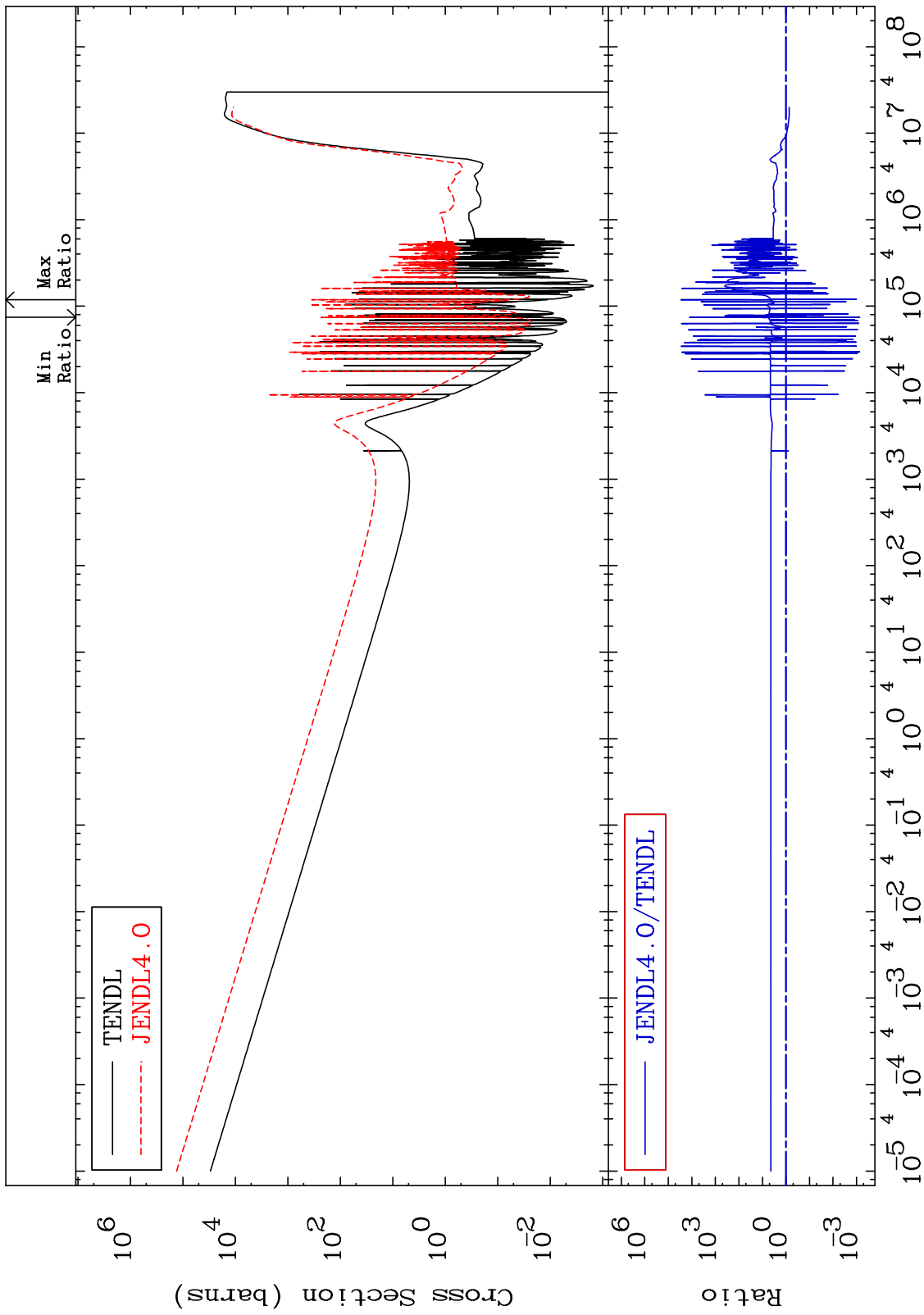
MAT 2837 Dpa inelastic (mt51-91) 28-Ni-62
 Cross Section -92.98 To 9999. %



MAT 2837

Dpa disappearance (mt102 -120)
Cross Section

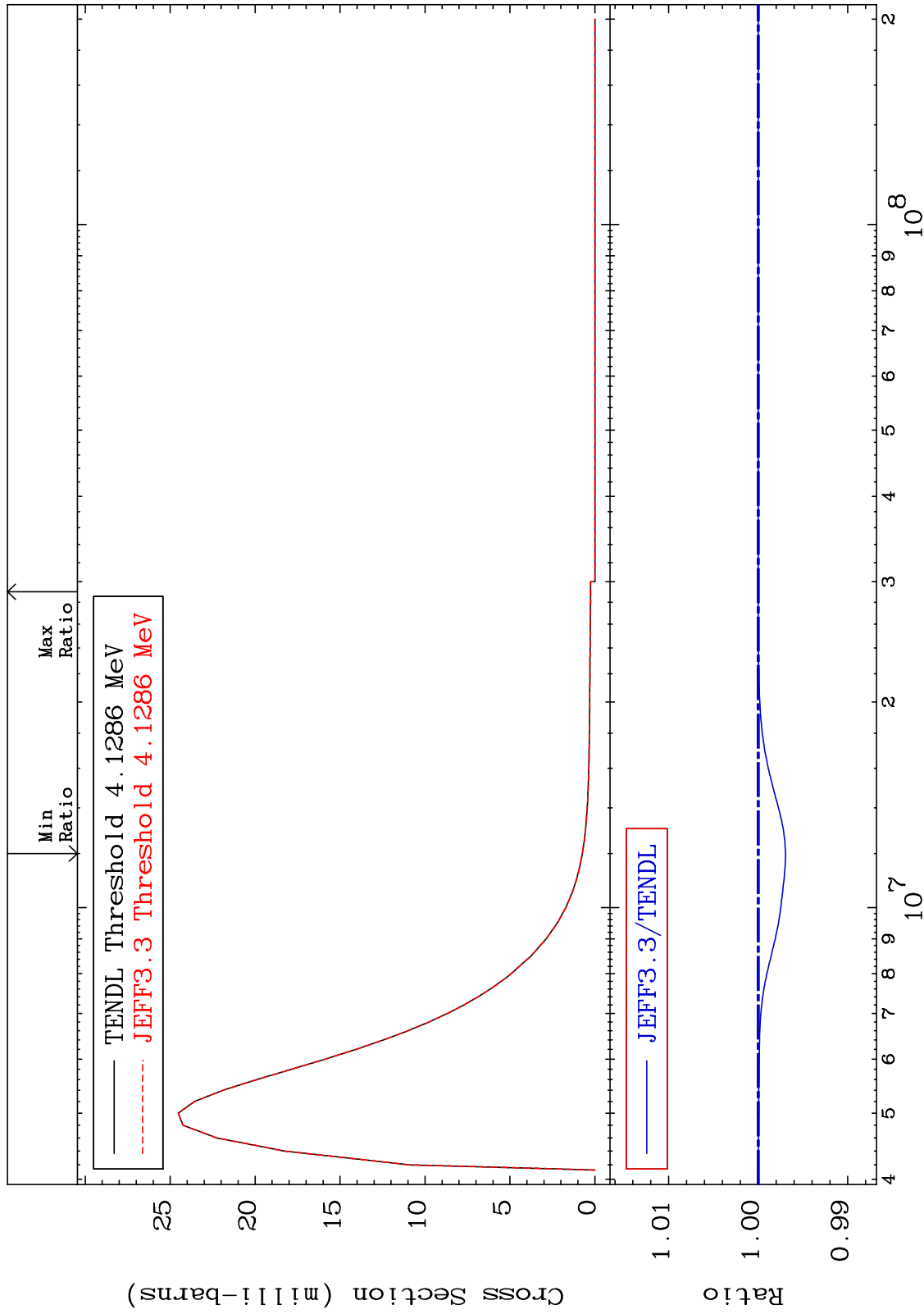
28-Ni-62
-99.93 To 9999. %



MAT 2837

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

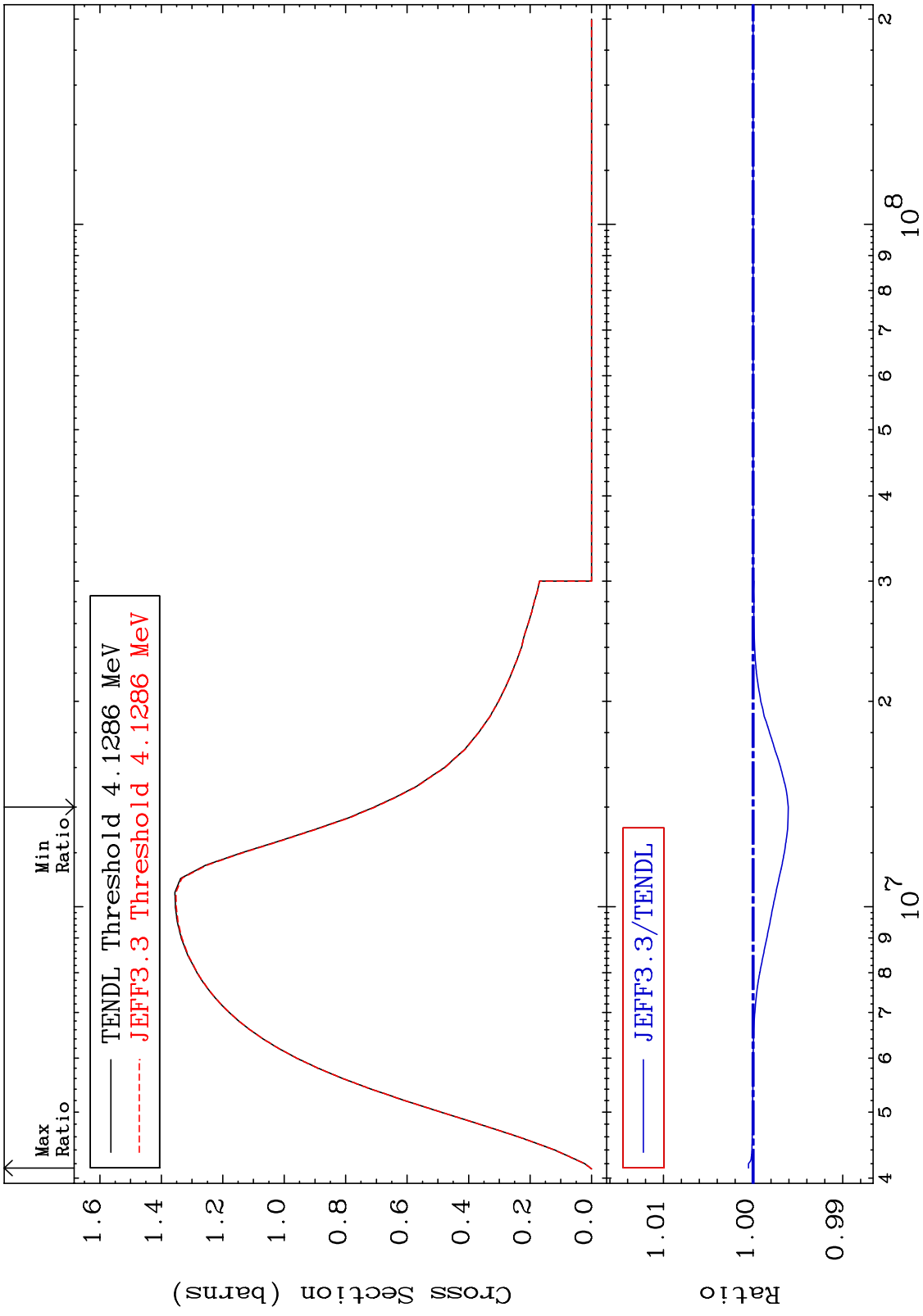
28-Ni-62
-0.305 To 0.000 %



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Incident Energy (eV)

28-Ni-62



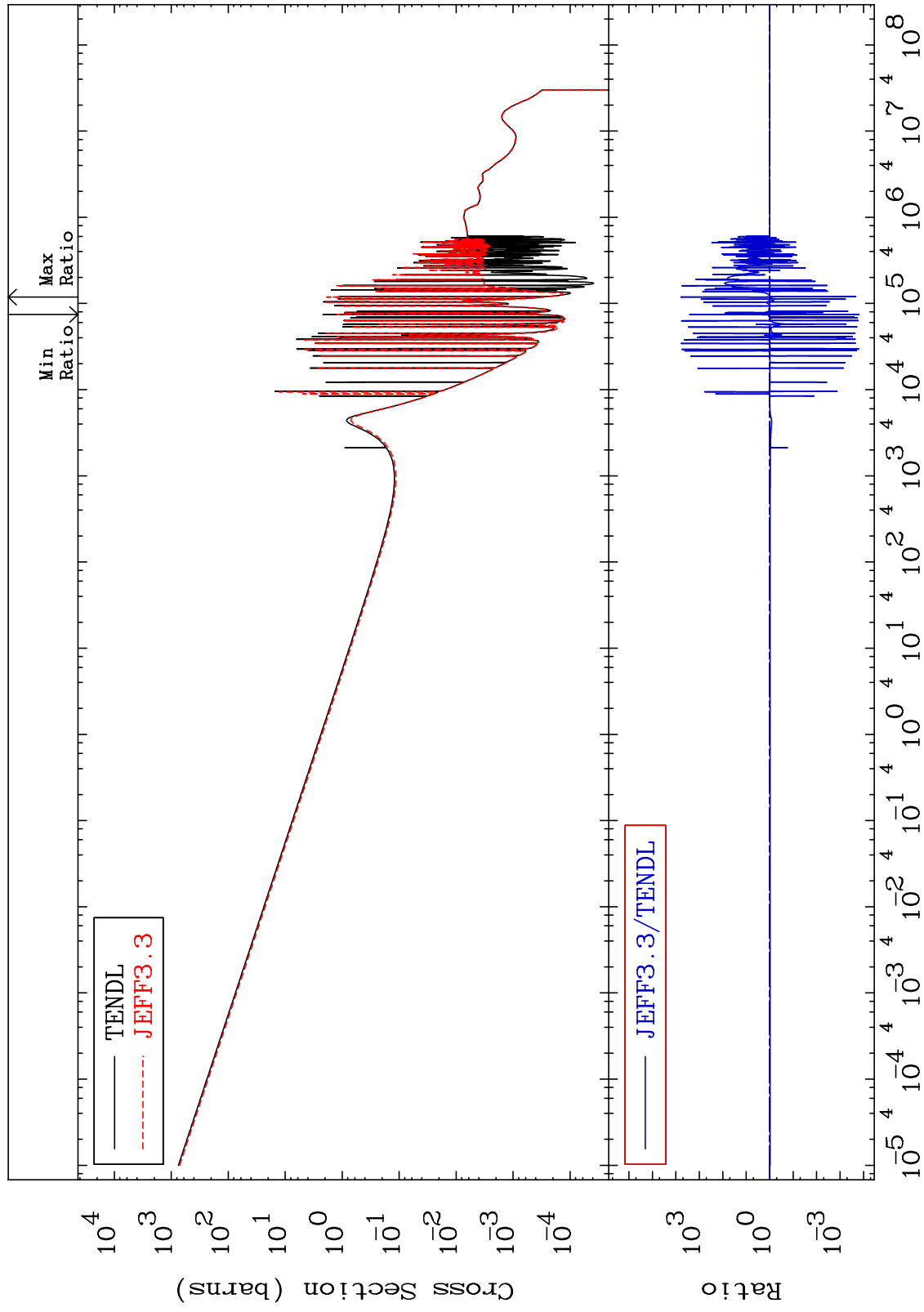
MAT 2837

(n, γ)

28-Ni-62

Cross Section

-99.98 To 9999. %



MAT 2837

(n,p)

28-Ni-62

-0.715 To 0.014 %

Cross Section

Min Ratio

Max Ratio

TENDL Threshold 4.6136 MeV
JEFF3.3 Threshold 4.6136 MeV

Cross Section (milli-barns)

50

40

30

20

10

0

1.01

Ratio

1.00

0.99

JEFF3.3/TENDL

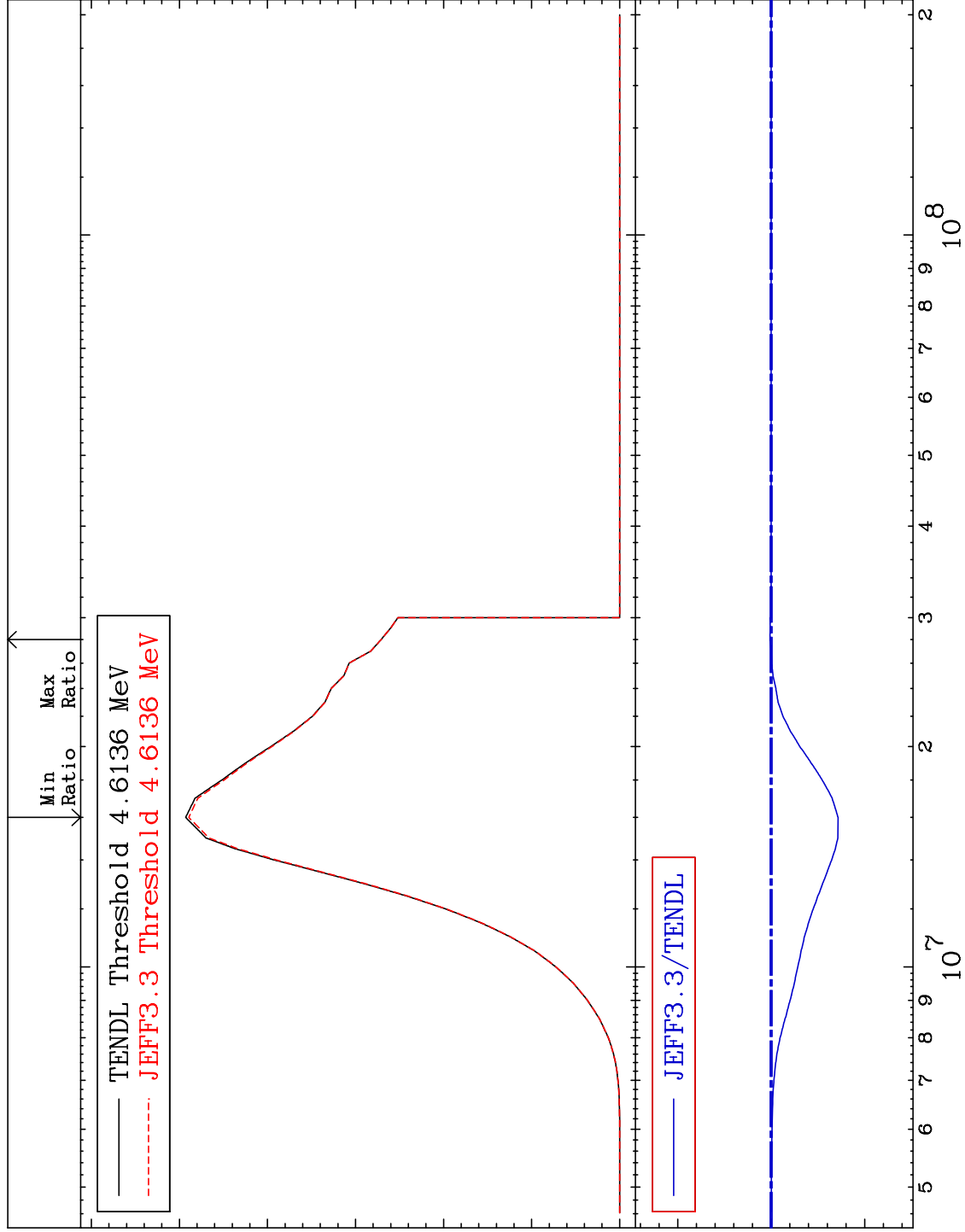
10⁷

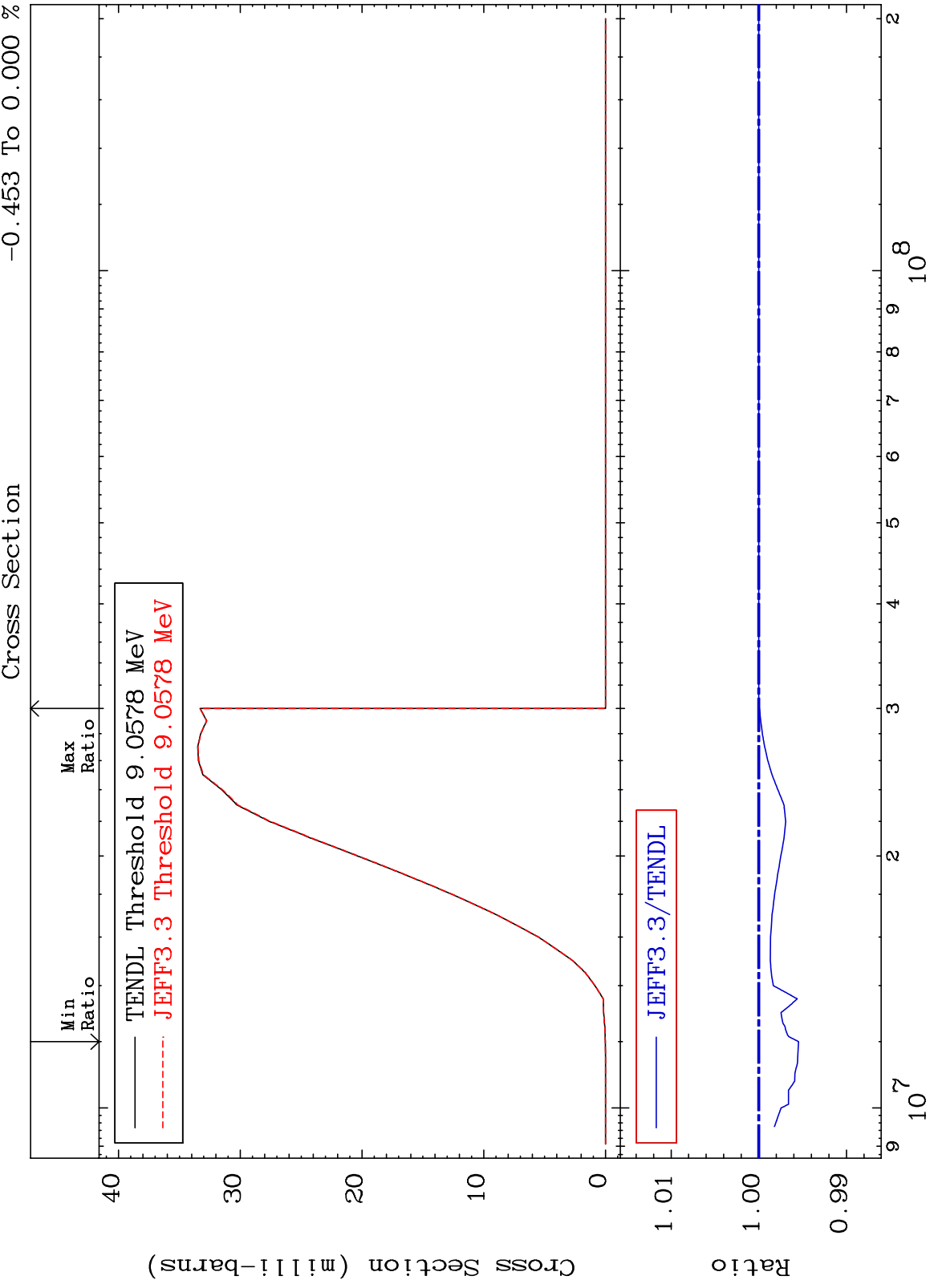
10⁸

50

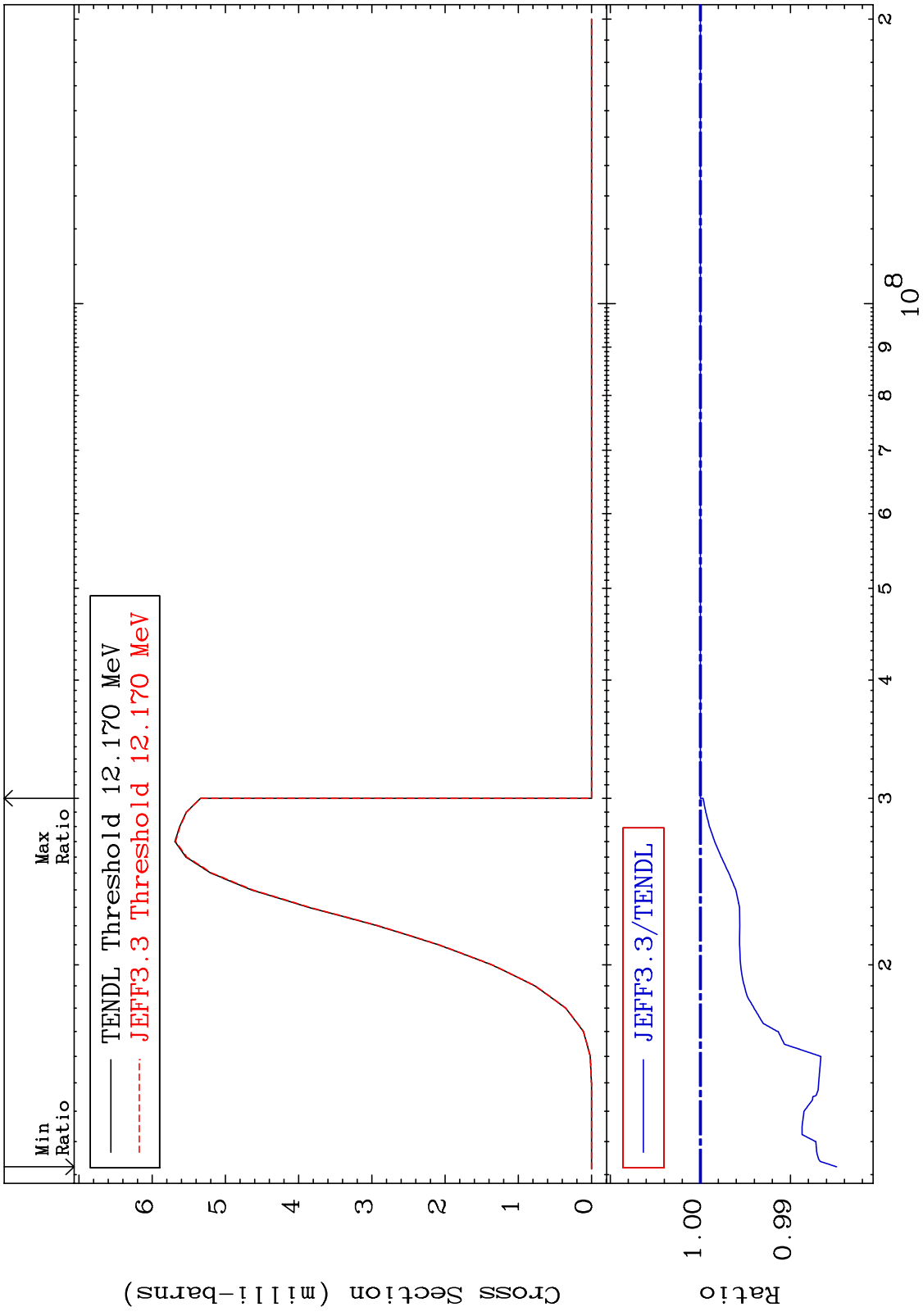
Incident Energy (eV)

28-Ni-62





MAT 2837 (n,t) 28-Ni-62
Cross Section -1.512 To 0.000 %



28-Ni-62

Incident Energy (eV)

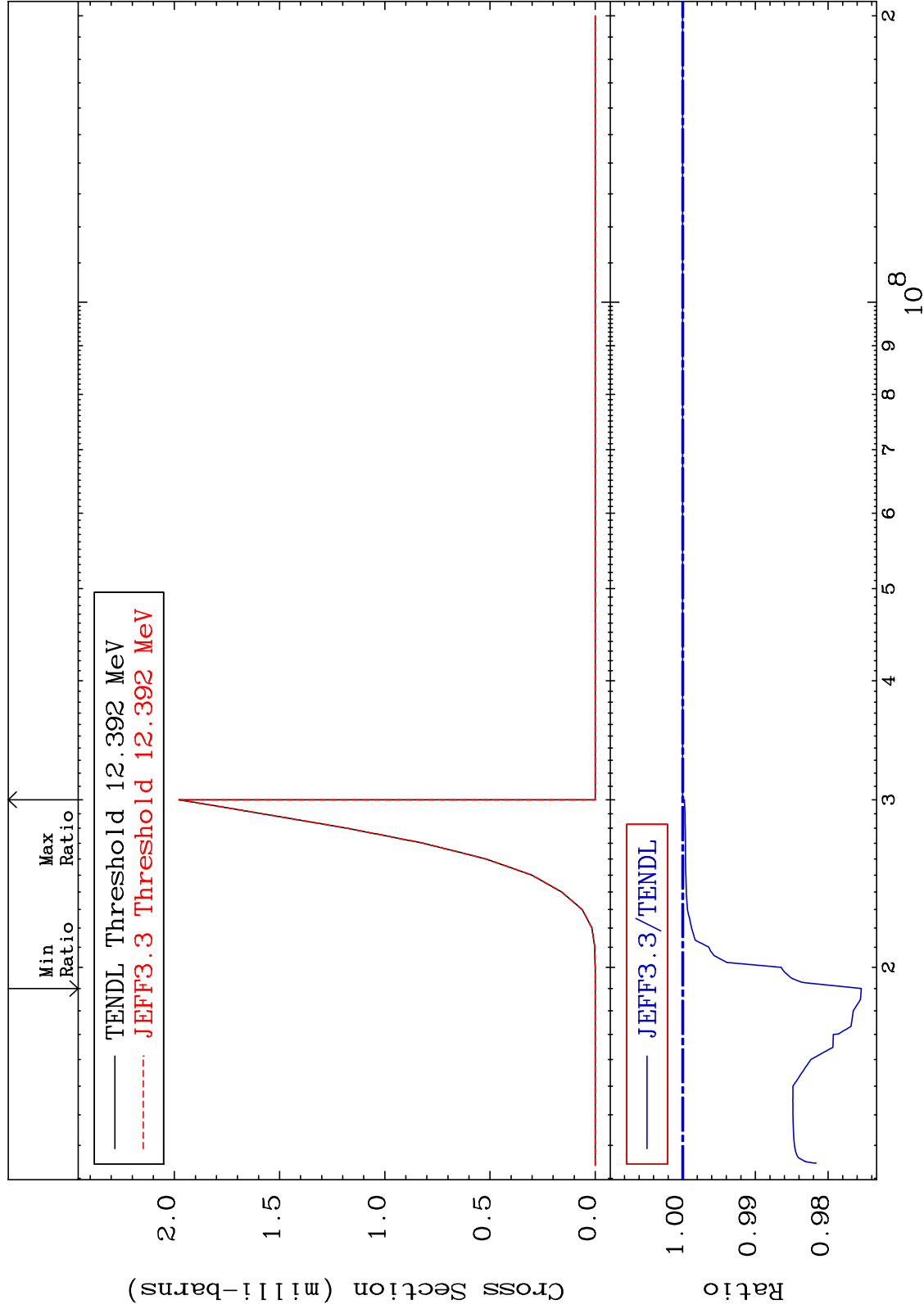
MAT 2837

(n, He-3)

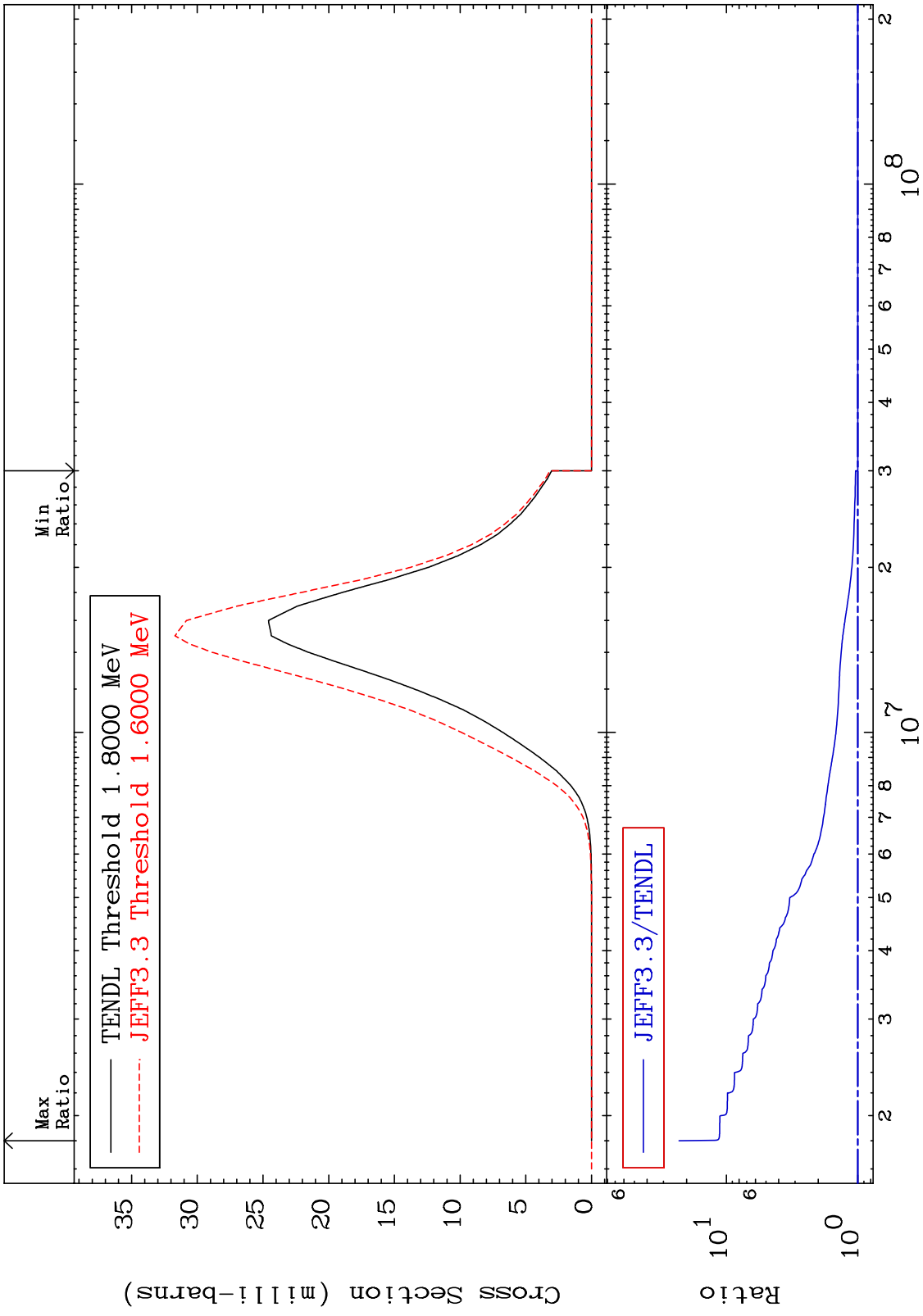
28-Ni-62

Cross Section

-2.457 To 0.000 %



MAT 2837 (n, α) Cross Section 28-Ni-62 To 2187. %



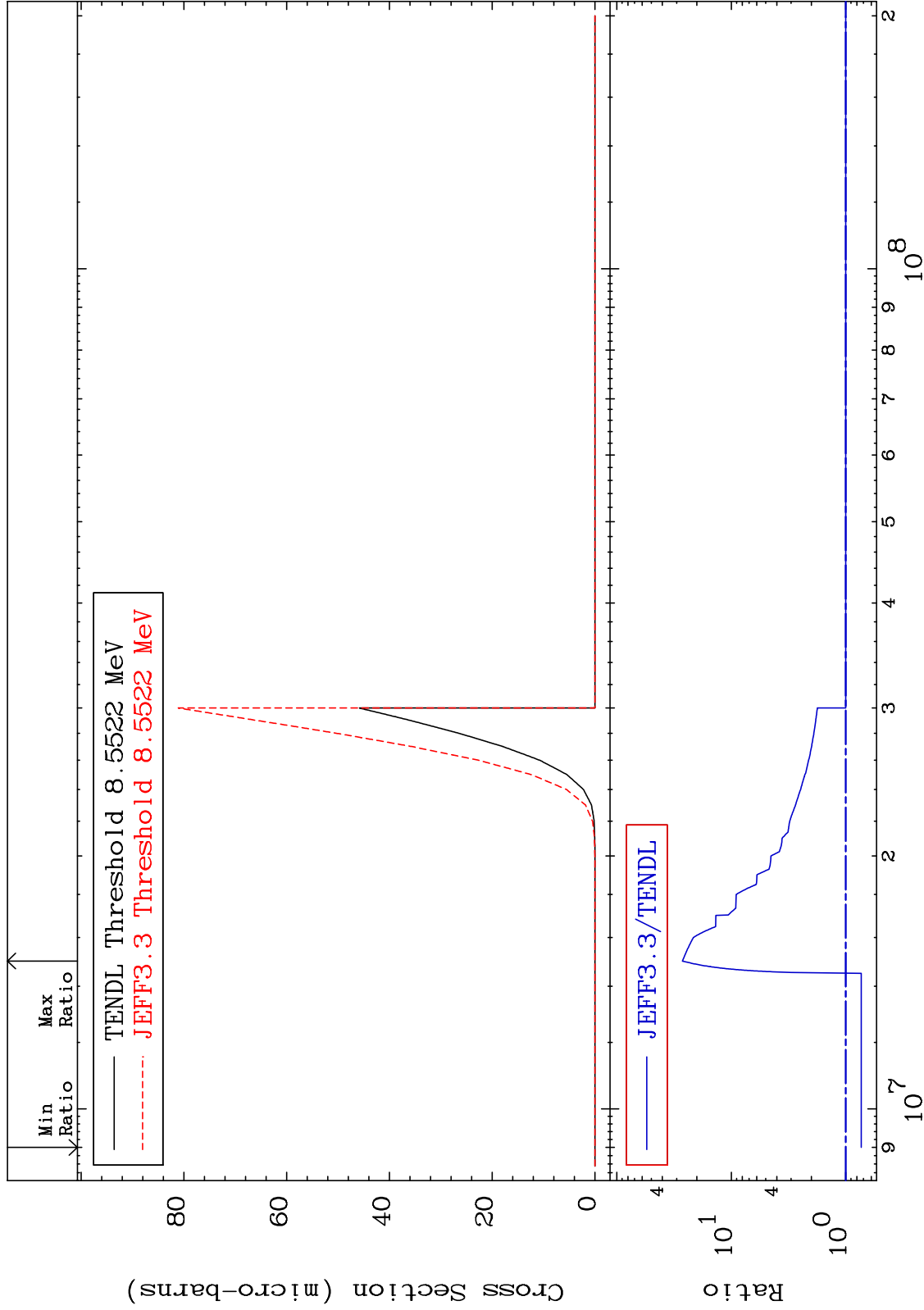
MAT 2837

(n,2α)

28-Ni-62

Cross Section

-26.78 To 2569. %

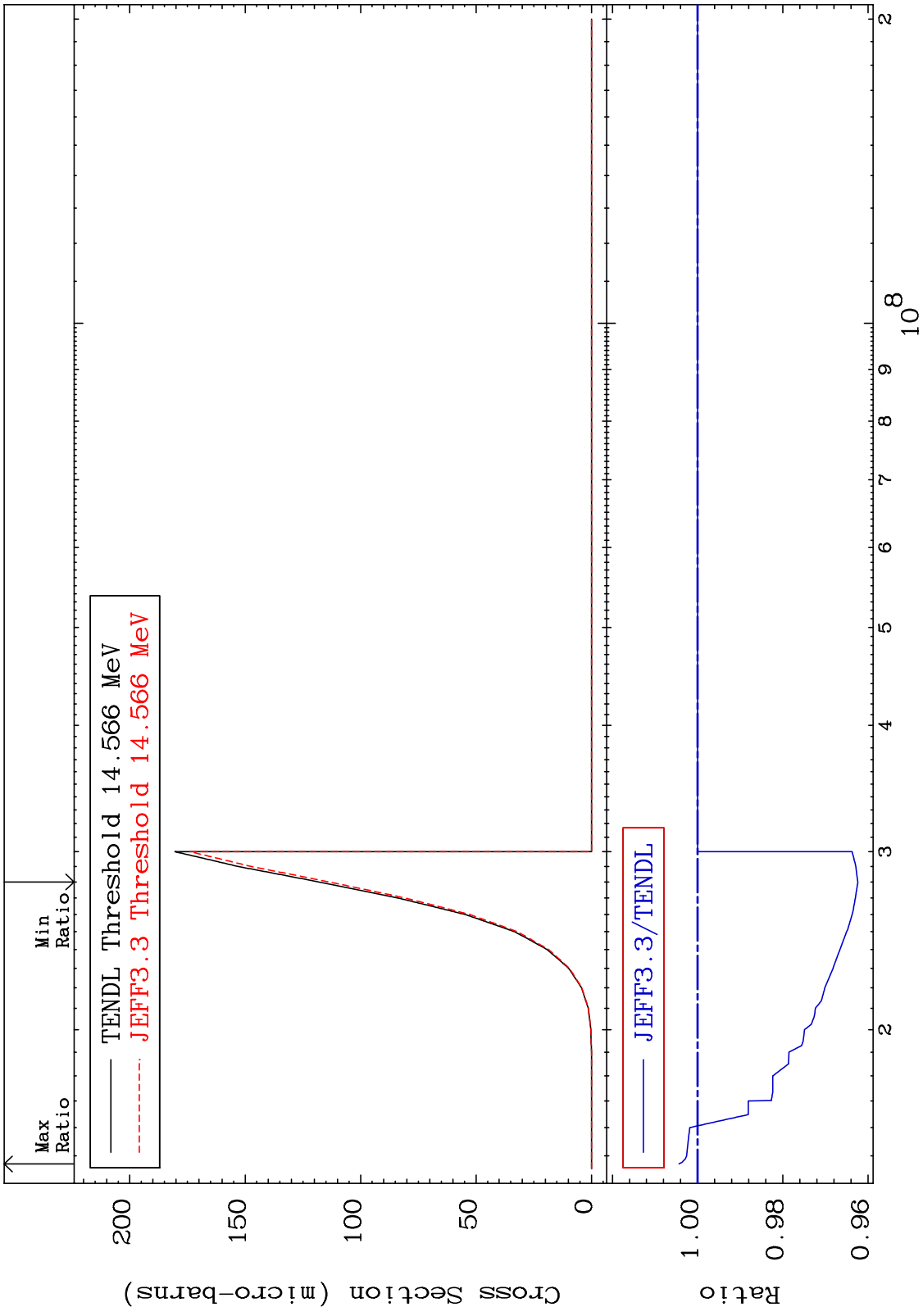


55

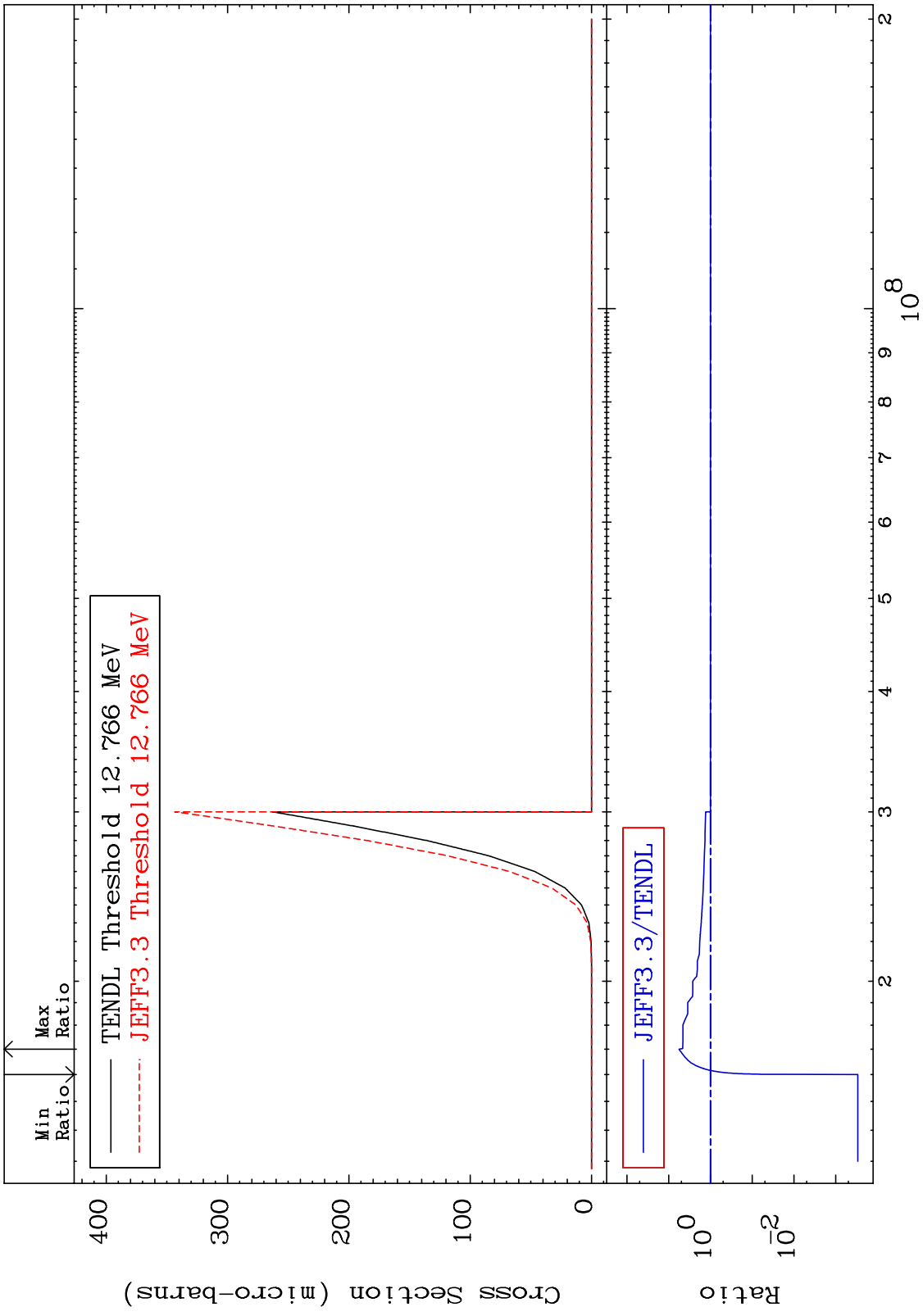
28-Ni-62

28-Ni-62

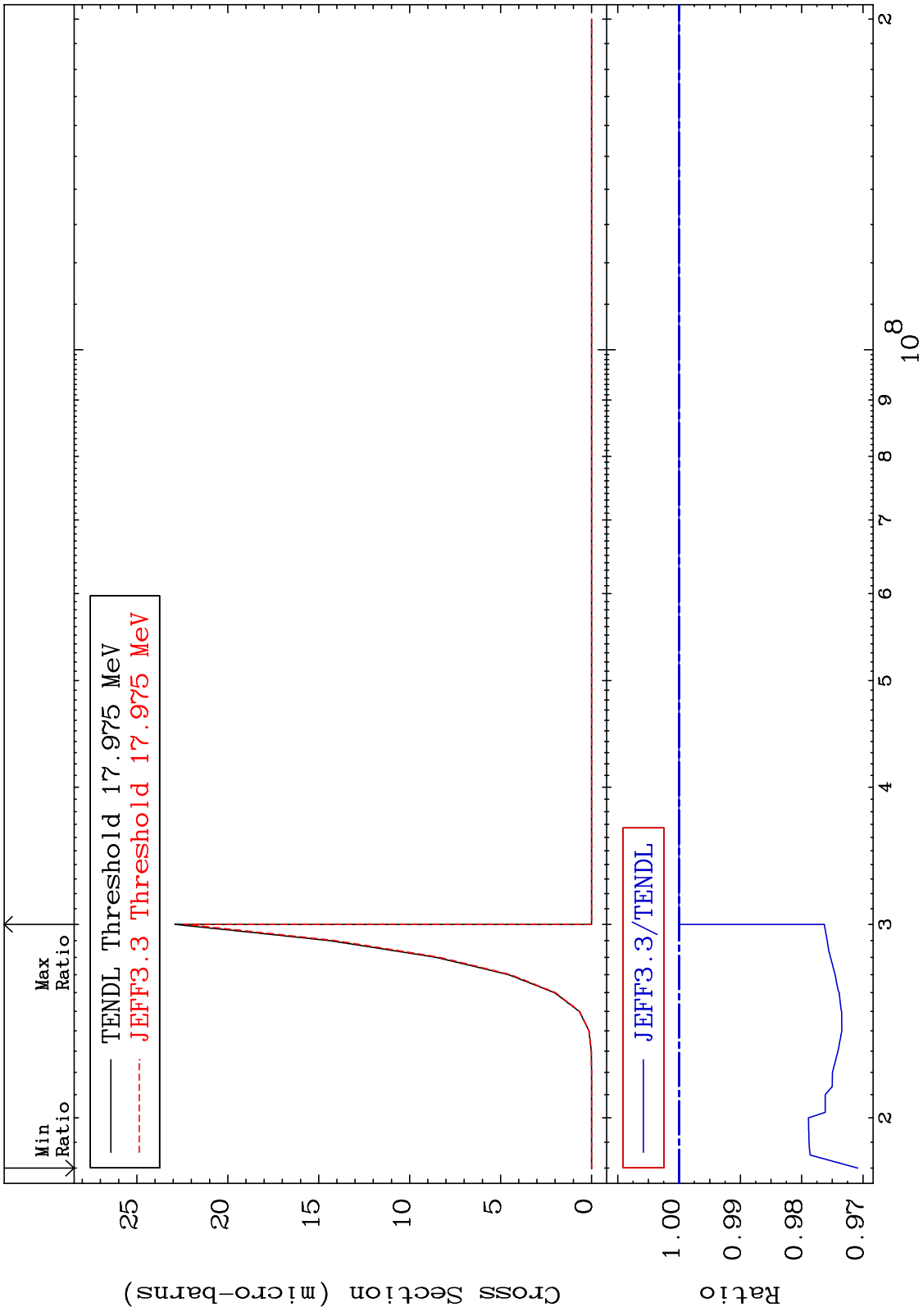
MAT 2837 (n,2p) Cross Section 28-Ni-62 -3.761 To 0.436 %



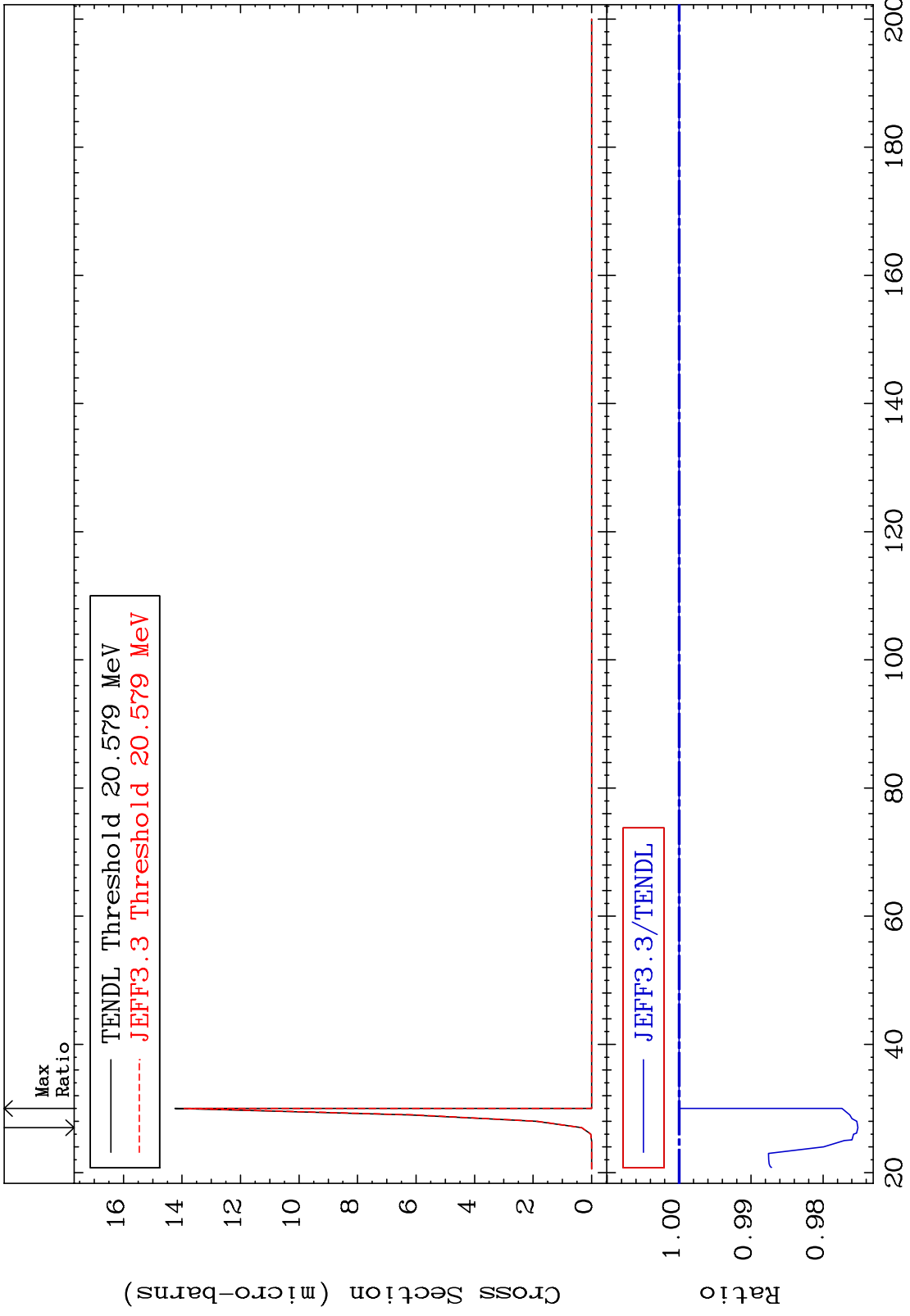
MAT 2837 $(n,p) \alpha$ 28-Ni-62
 Cross Section -99.97 To 467.4 %



MAT 2837 (n,p) d 28-Ni-62
 Cross Section -2.917 To 0.000 %

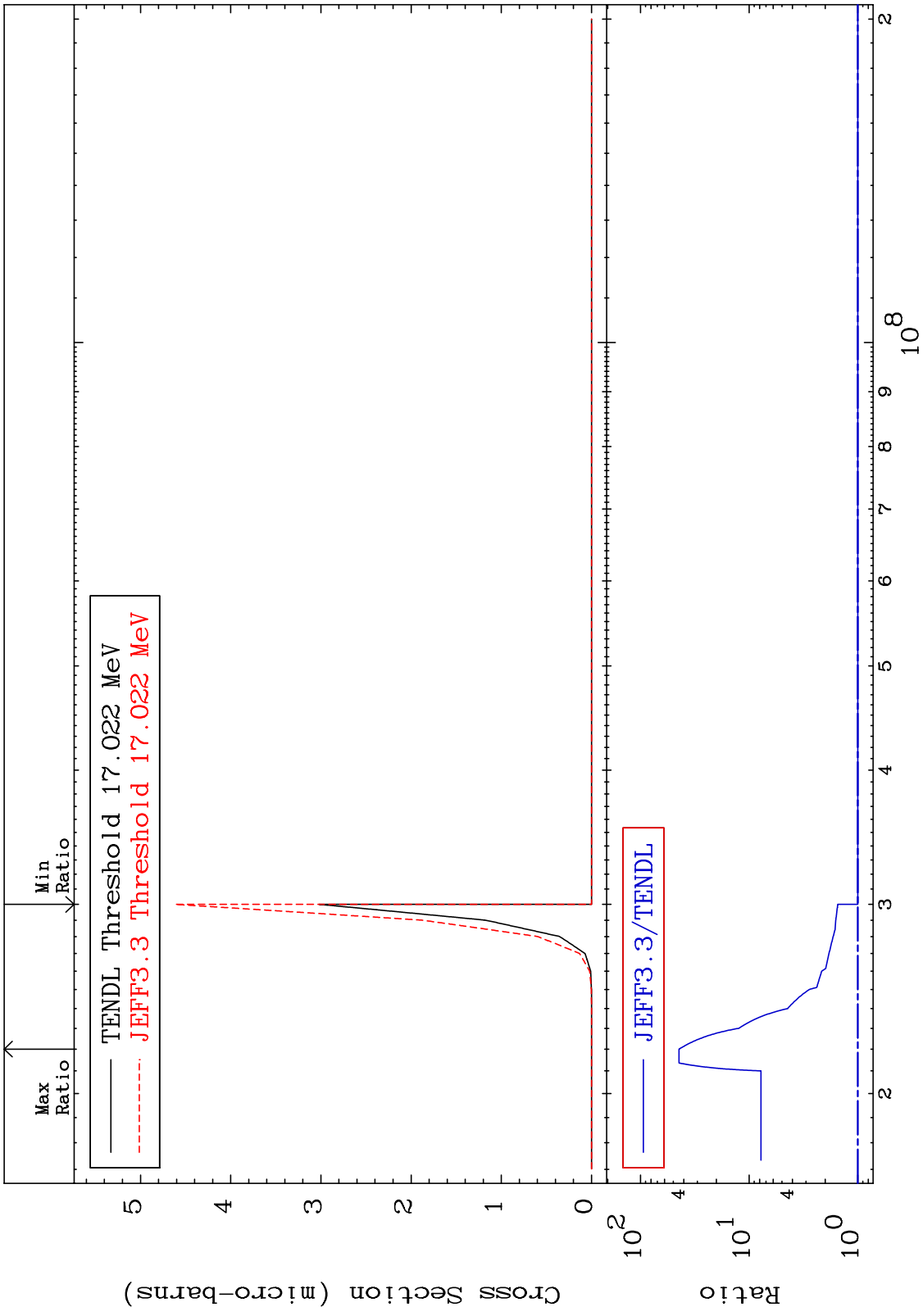


MAT 2837 (n,p) t 28-Ni-62
Cross Section -2.485 To 0.000 %



59 Incident Energy (MeV) 28-Ni-62

MAT 2837 (n,d) α 28-Ni-62
 Cross Section 0.000 To 4317. %

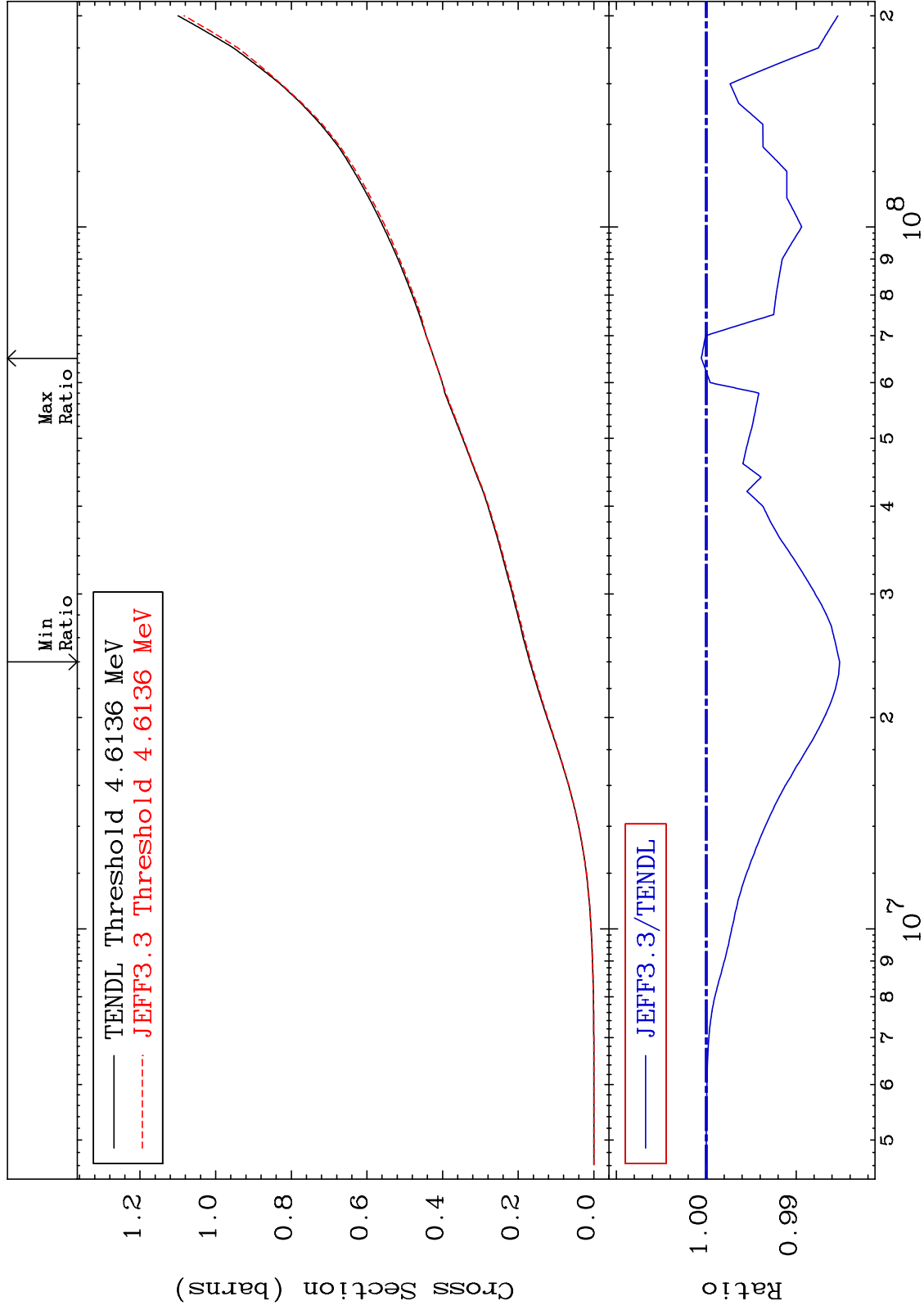


60 28-Ni-62

MAT 2837

Hydrogen Production
Cross Section

28-Ni-62
-1.484 To 0.054 %

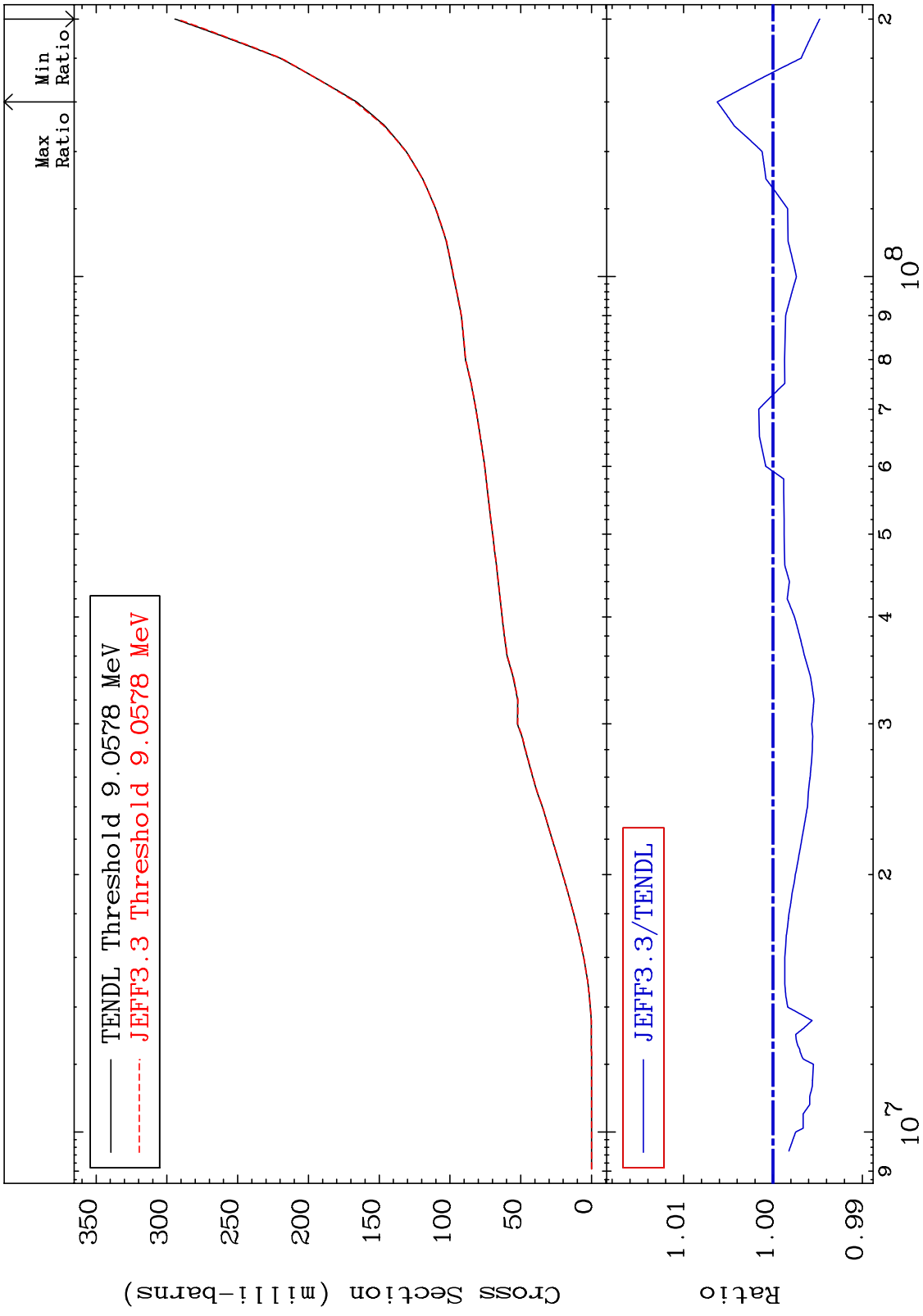


61

Incident Energy (eV)

28-Ni-62

MAT 2837 Deuterium Production Cross Section 28-Ni-62 -0.523 To 0.624 %

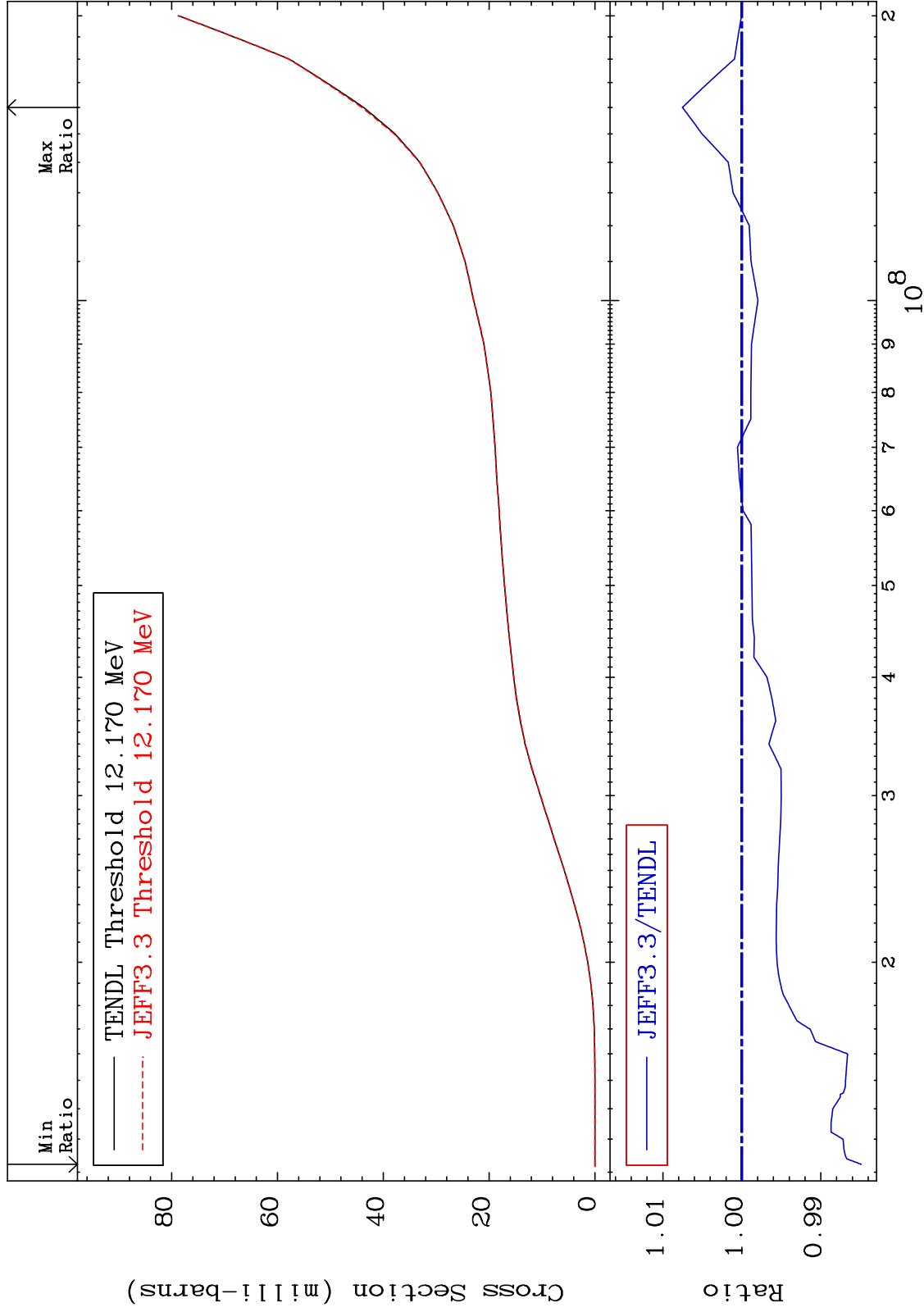


62 Incident Energy (eV) 28-Ni-62

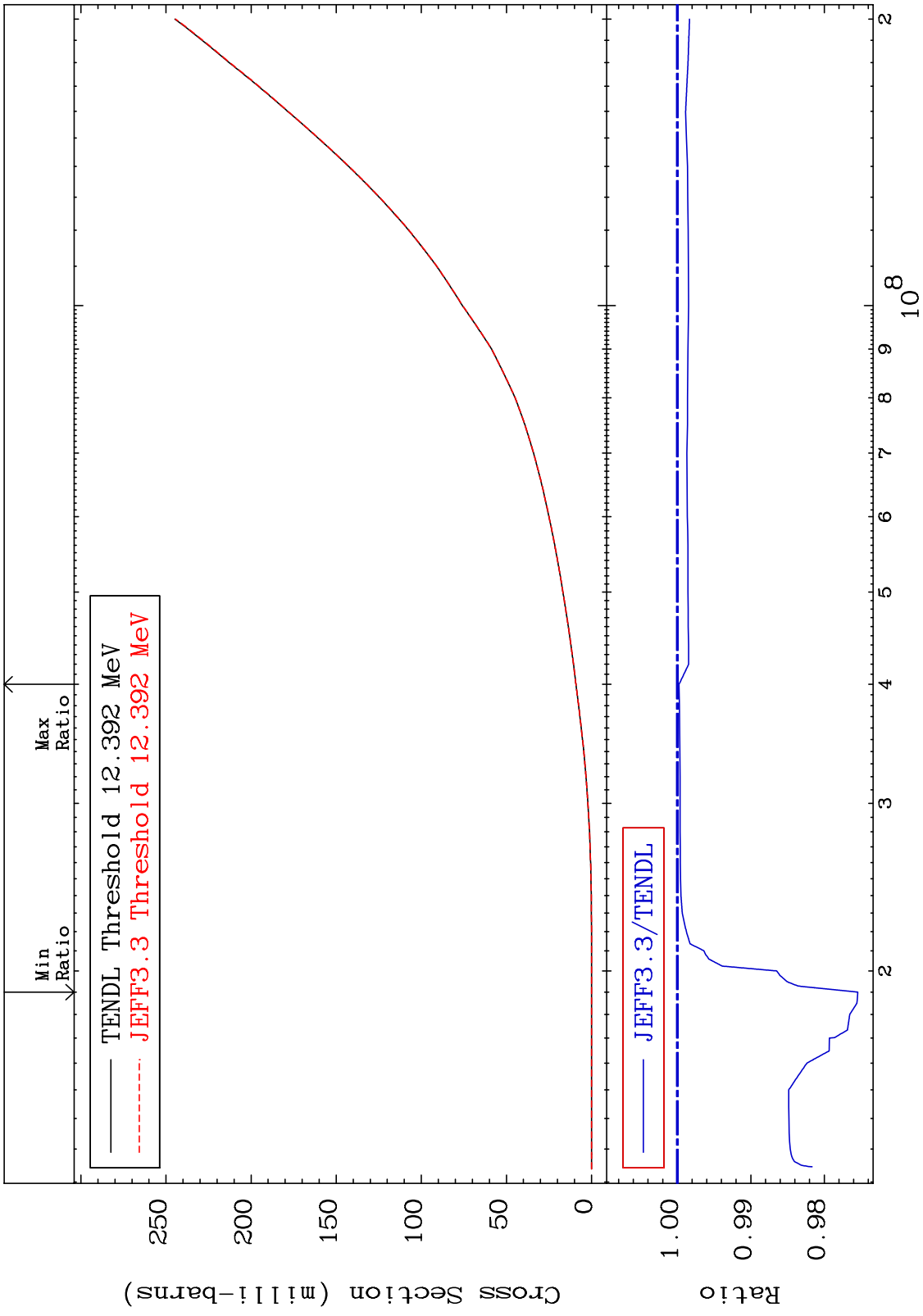
MAT 2837

Tritium Production
Cross Section

28-Ni-62
-1.512 To 0.752 %

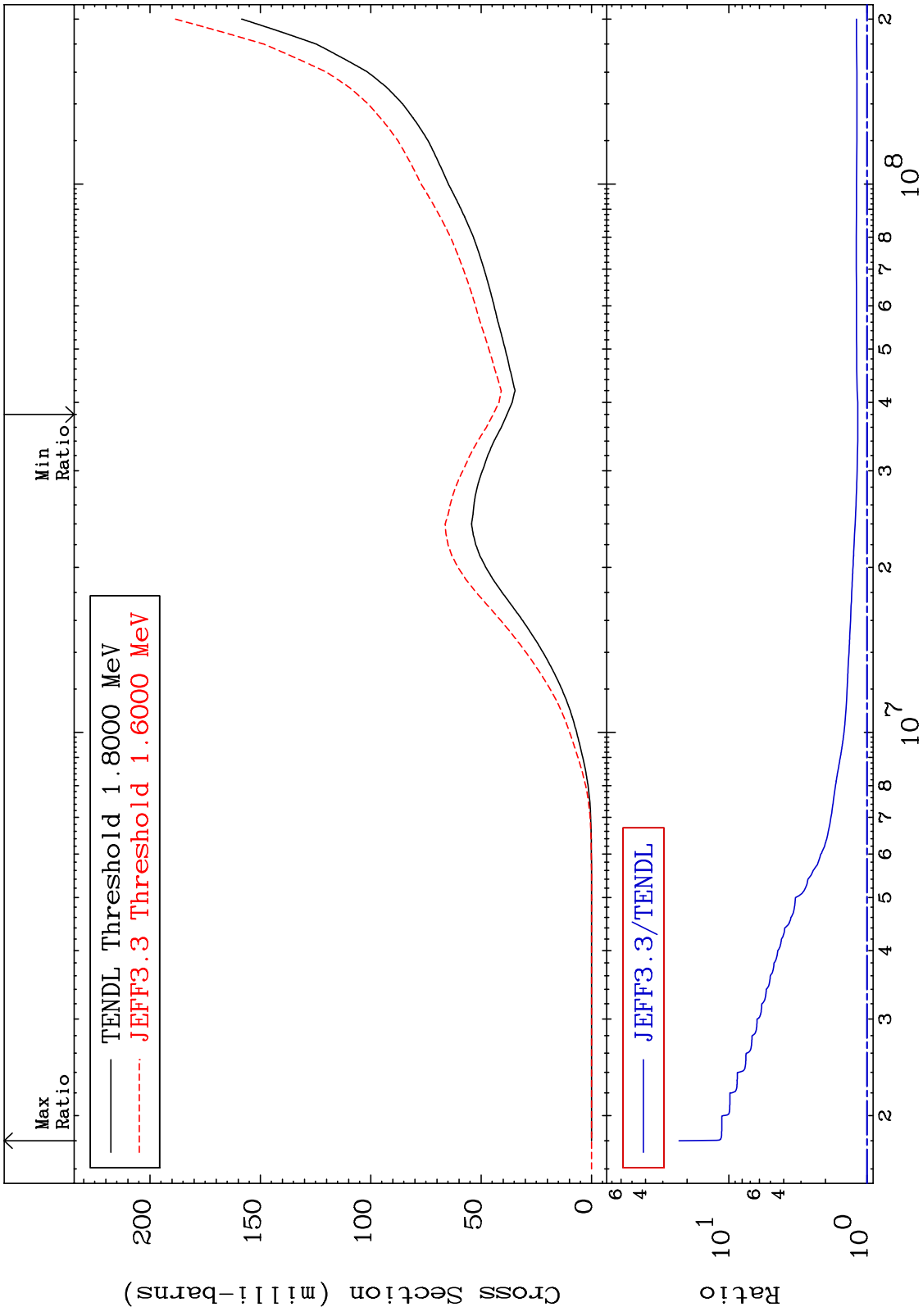


MAT 2837 He-3 Production Cross Section 28-Ni-62 -2.457 To -0.022%



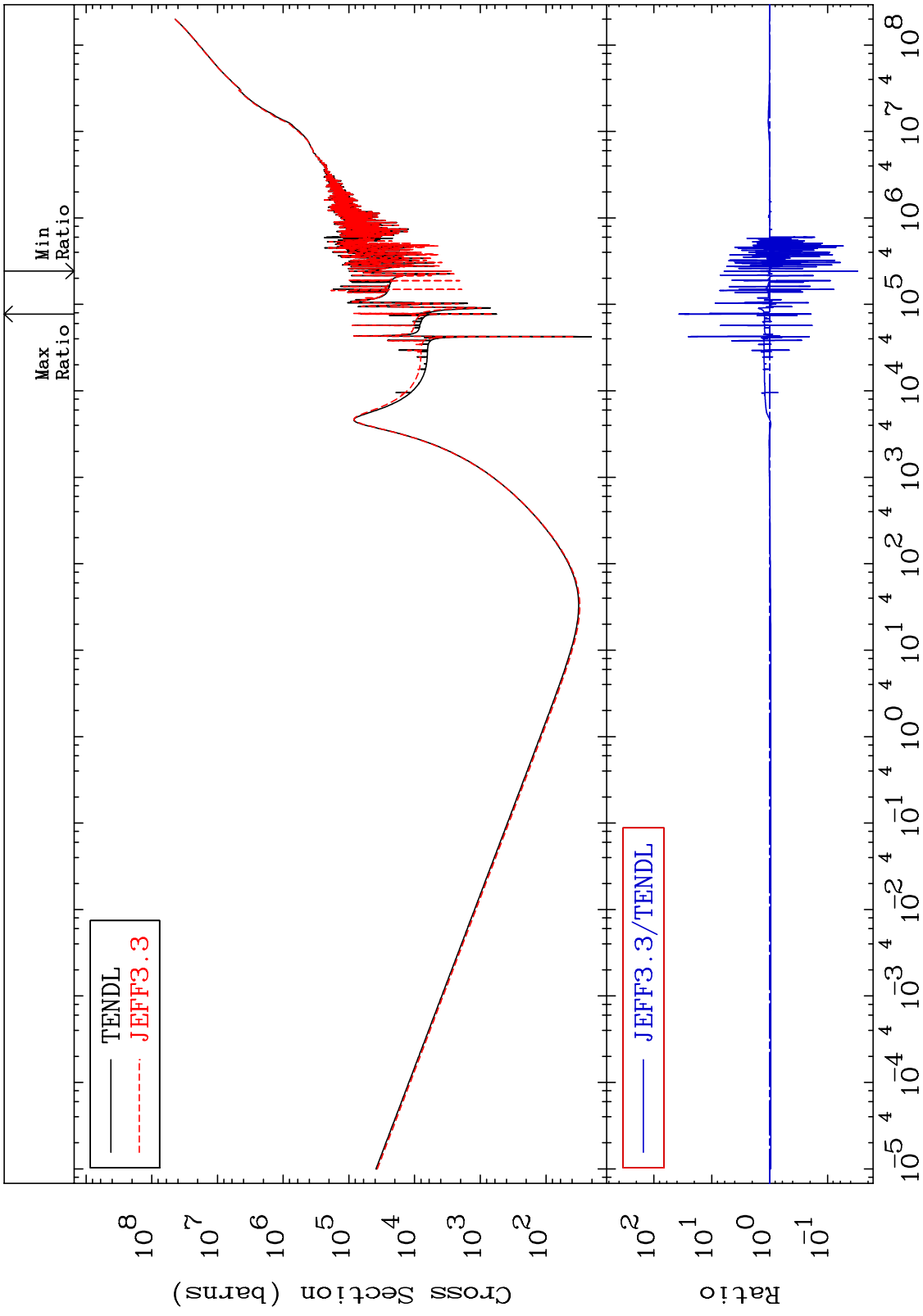
64 28-Ni-62 Incident Energy (eV)

MAT 2837 He-4 Production Cross Section 28-Ni-62 To 2187. %
 16.46



65 28-Ni-62

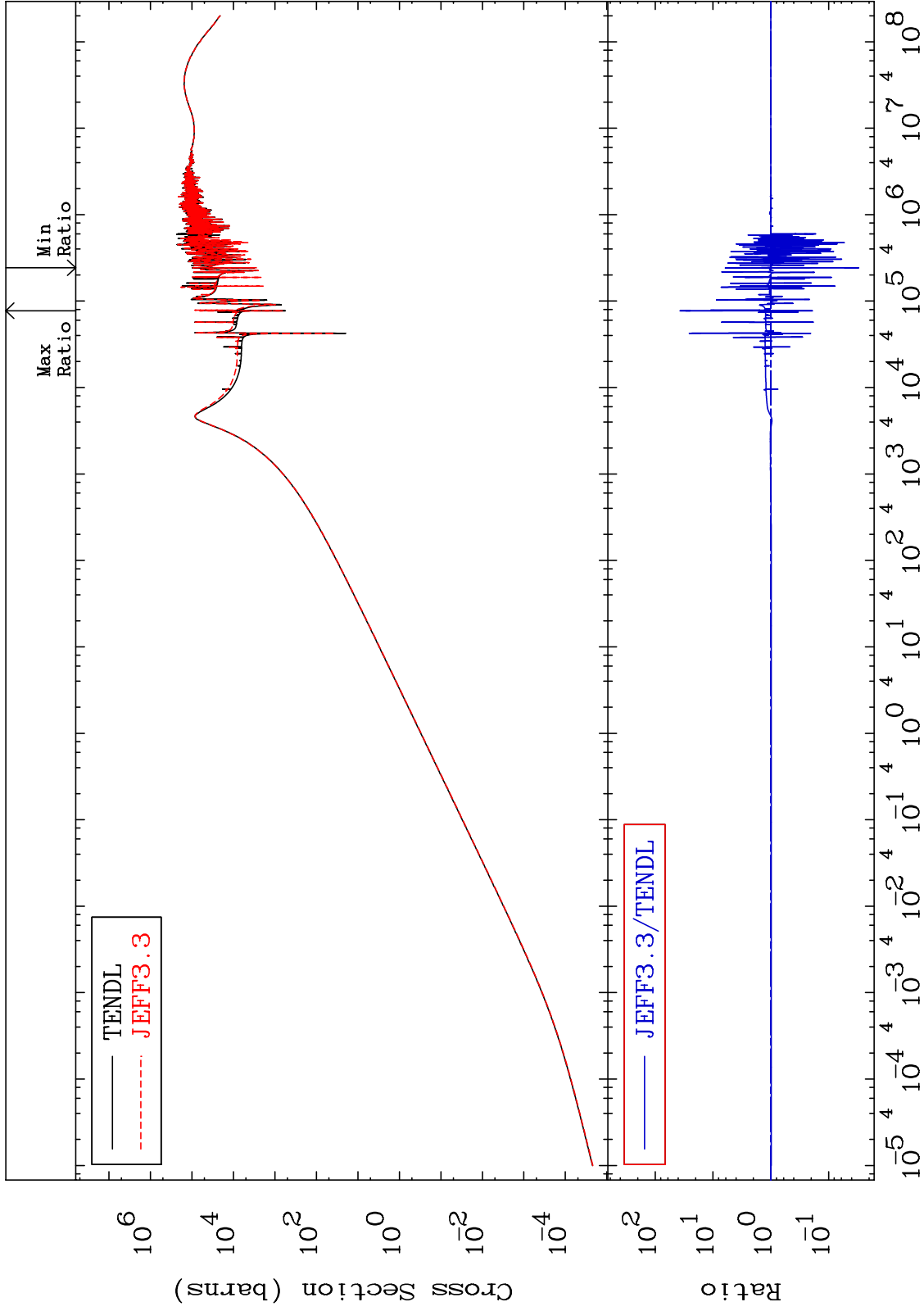
MAT 2837 Kerma total (eV-barns) Cross Section 28-Ni-62 -97.01 To 3575. %



MAT 2837

Kerma elastic
Cross Section

28-Ni-62
-97.01 To 3589. %



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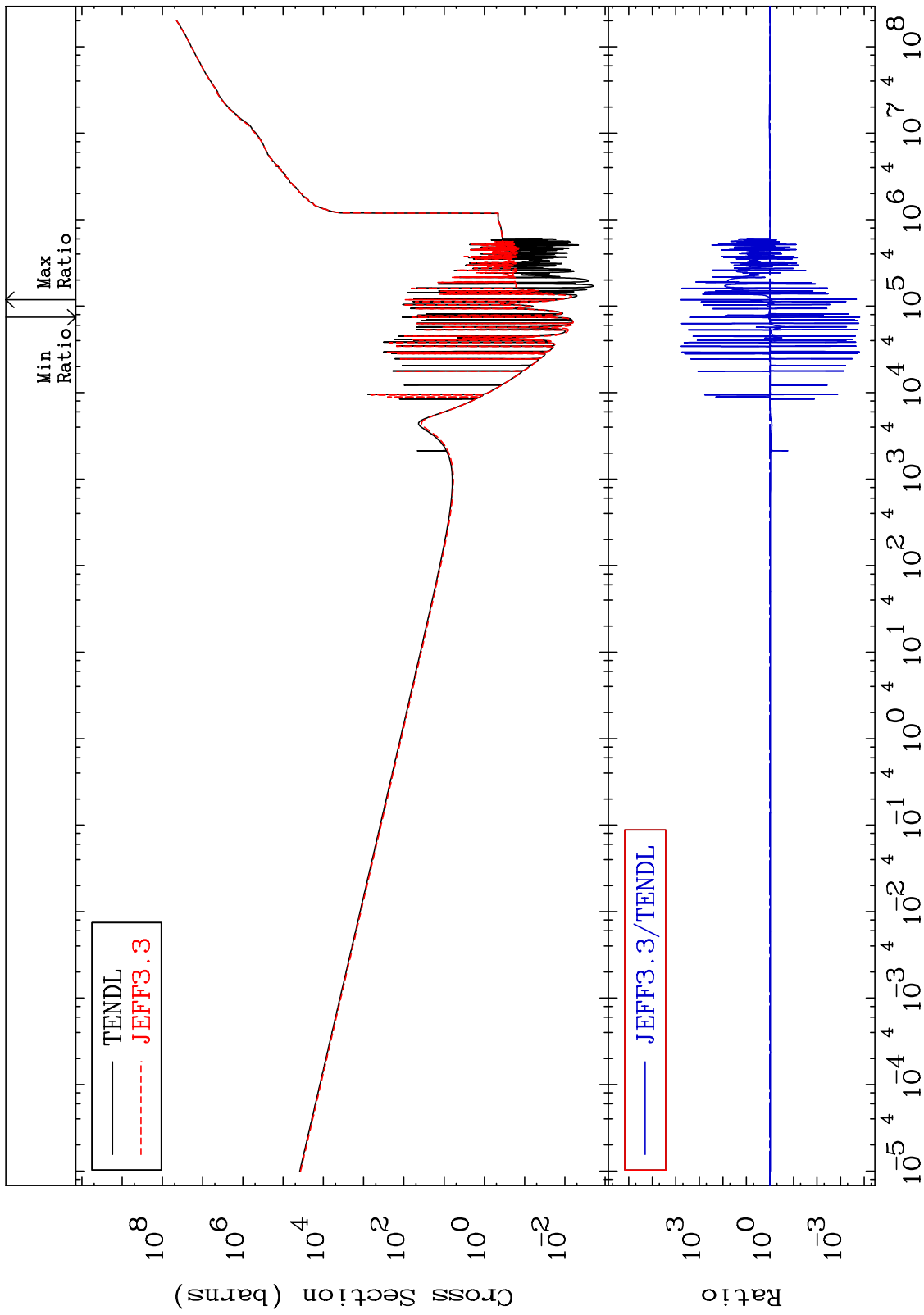
Incident Energy (eV)

28-Ni-62

MAT 2837

Kerma non-elastic (all but mt2)
Cross Section

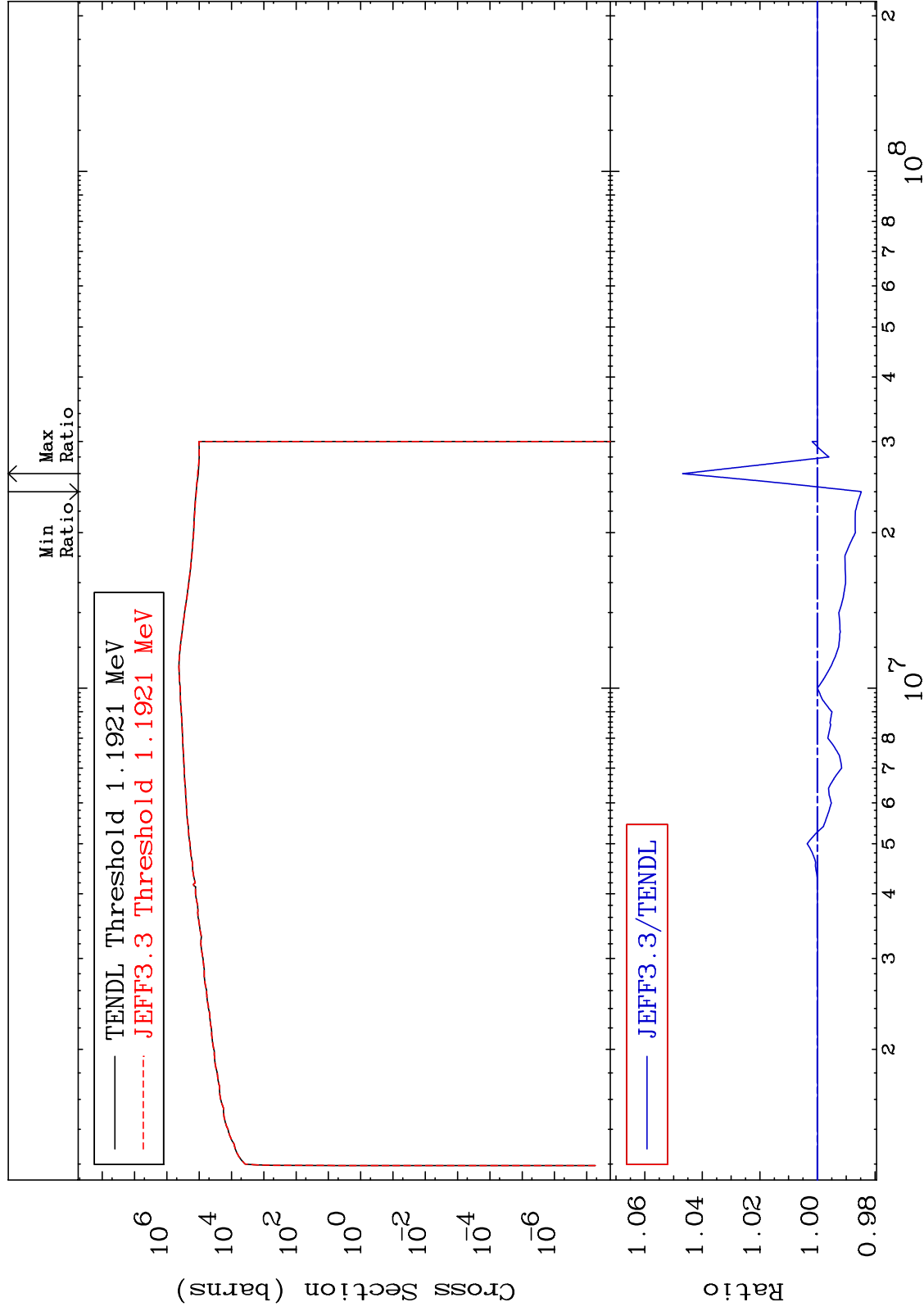
28-Ni-62
-99.98 To 9999. %



MAT 2837

Kerma inelastic (mt51-91)
Cross Section

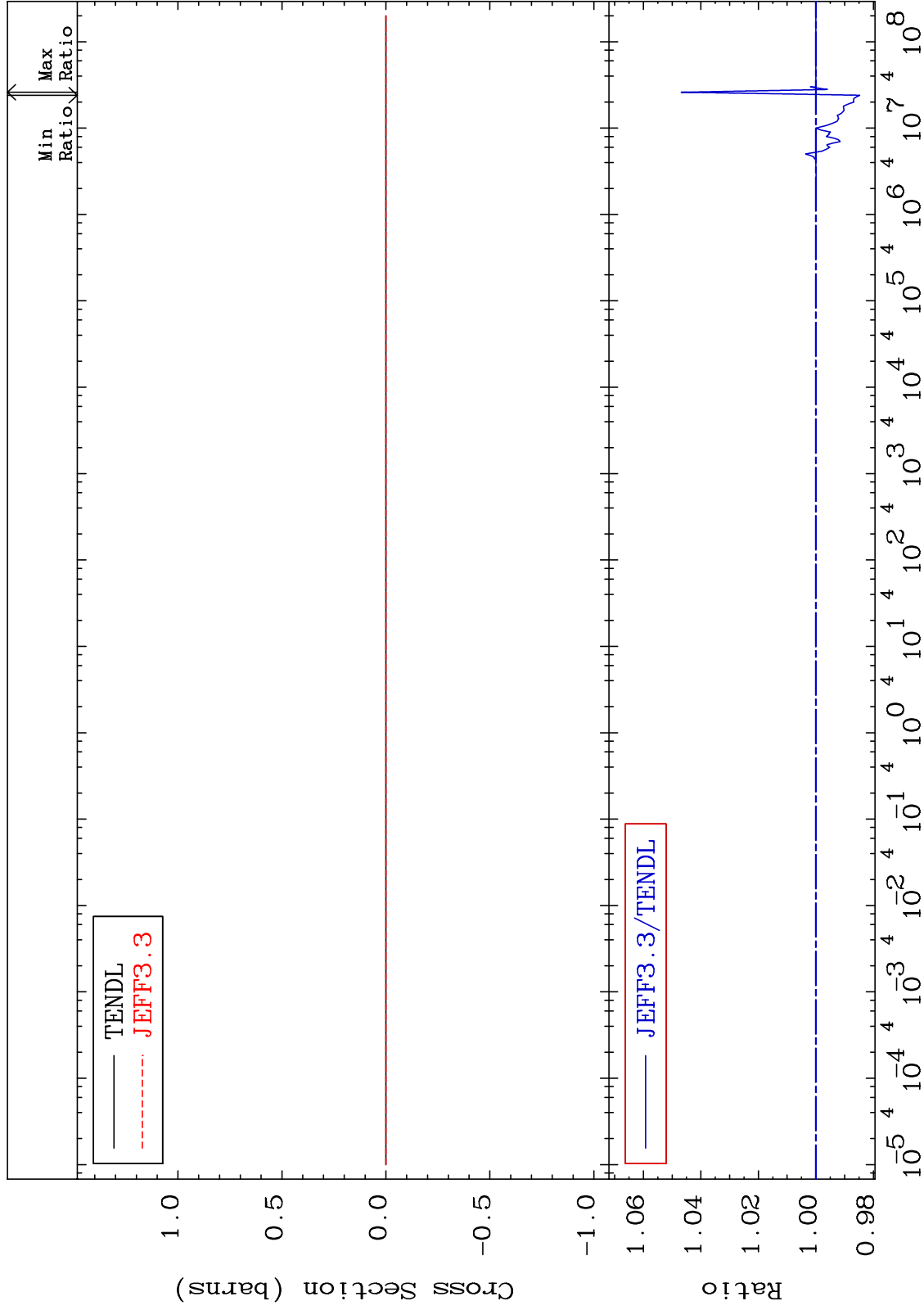
28-Ni-62
-1.526 To 4.683 %



MAT 2837

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

28-Ni-62
-1.526 To 4.683 %



70

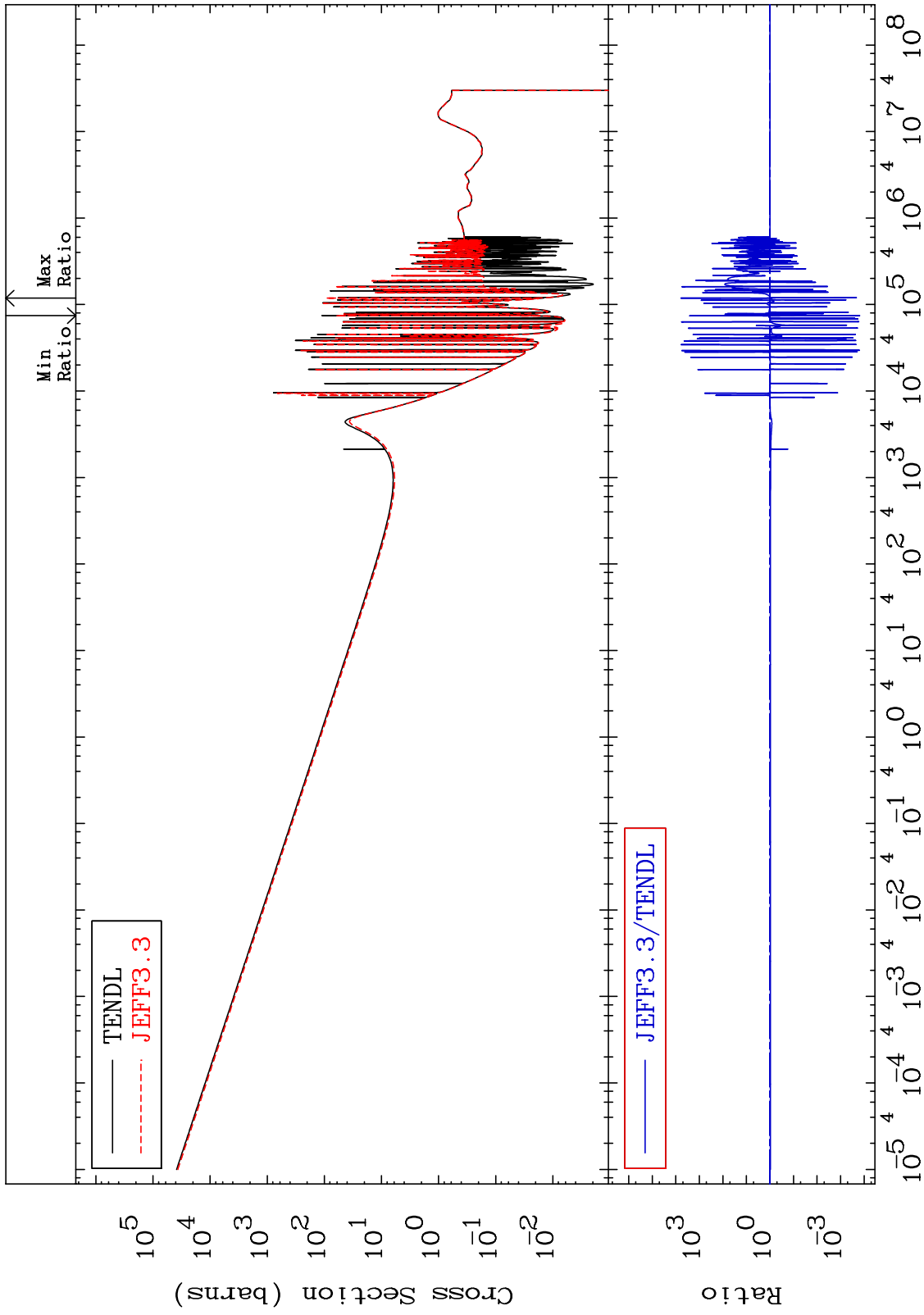
Incident Energy (eV)

28-Ni-62

MAT 2837

Kerma capture (mt102)
Cross Section

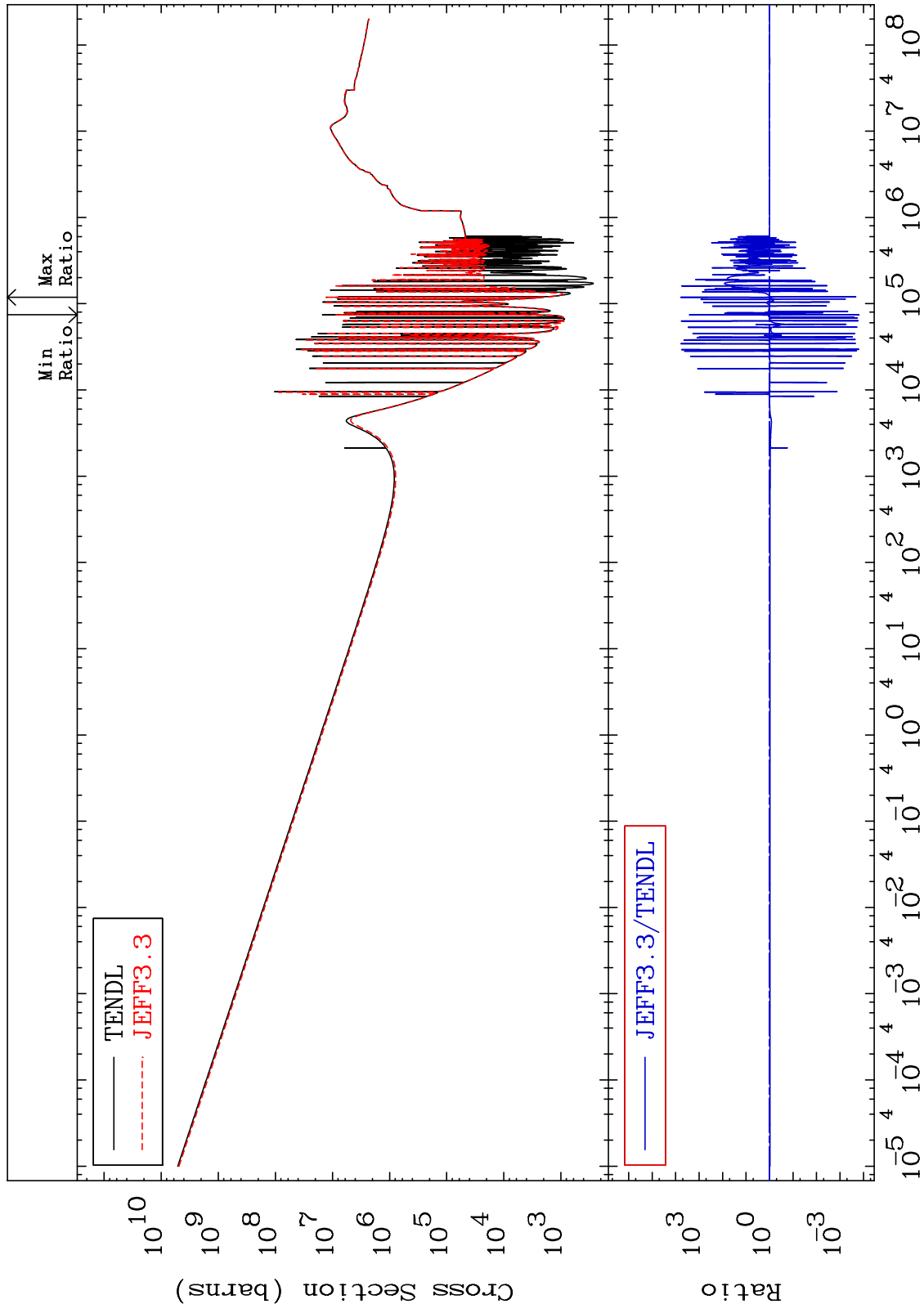
28-Ni-62
-99.98 To 9999. %



MAT 2837

Total photon (eV-barns)
Cross Section

28-Ni-62
-99.98 To 9999. %



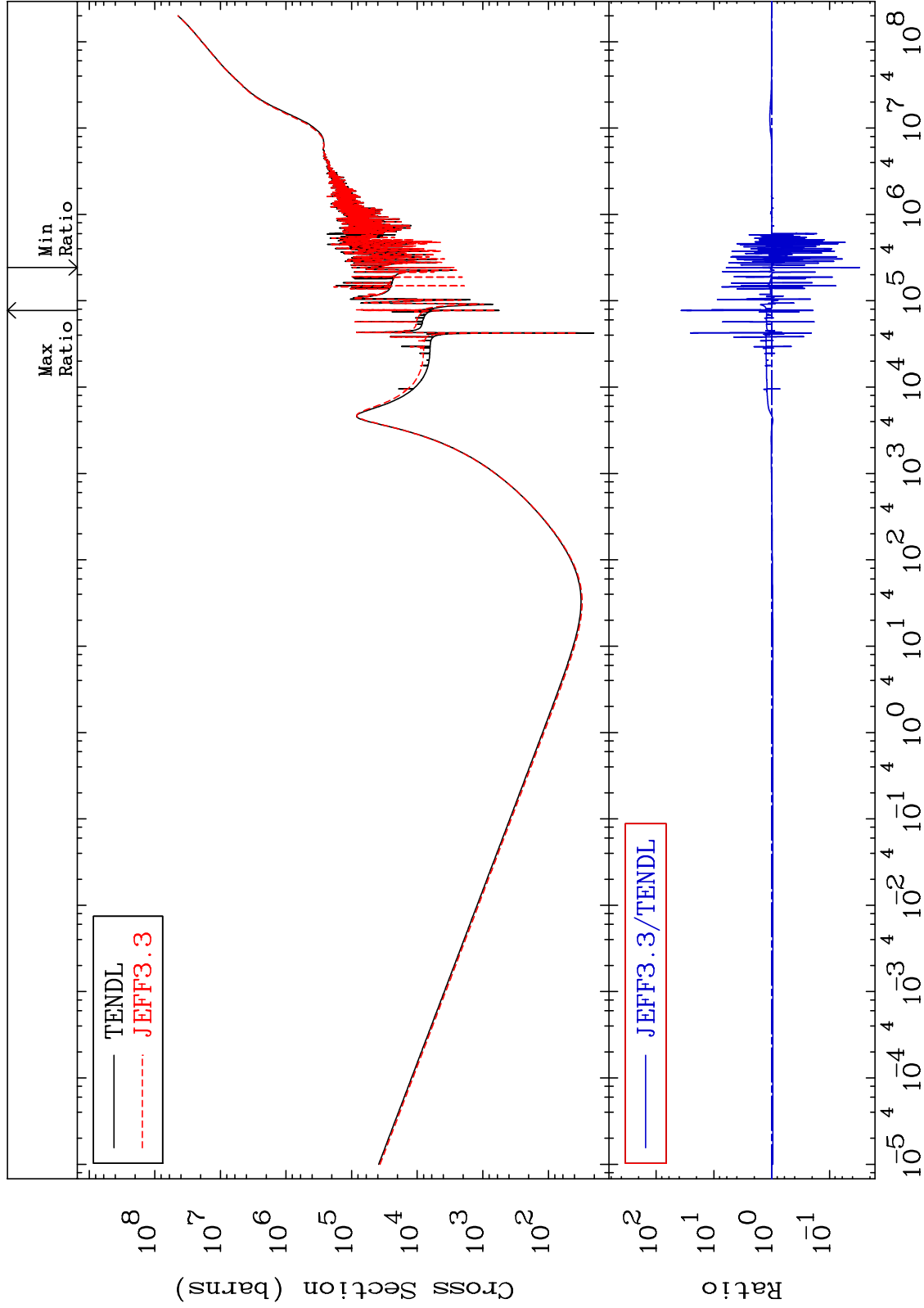
72

28-Ni-62

MAT 2837

Total kinematic kerma (high limit)
Cross Section

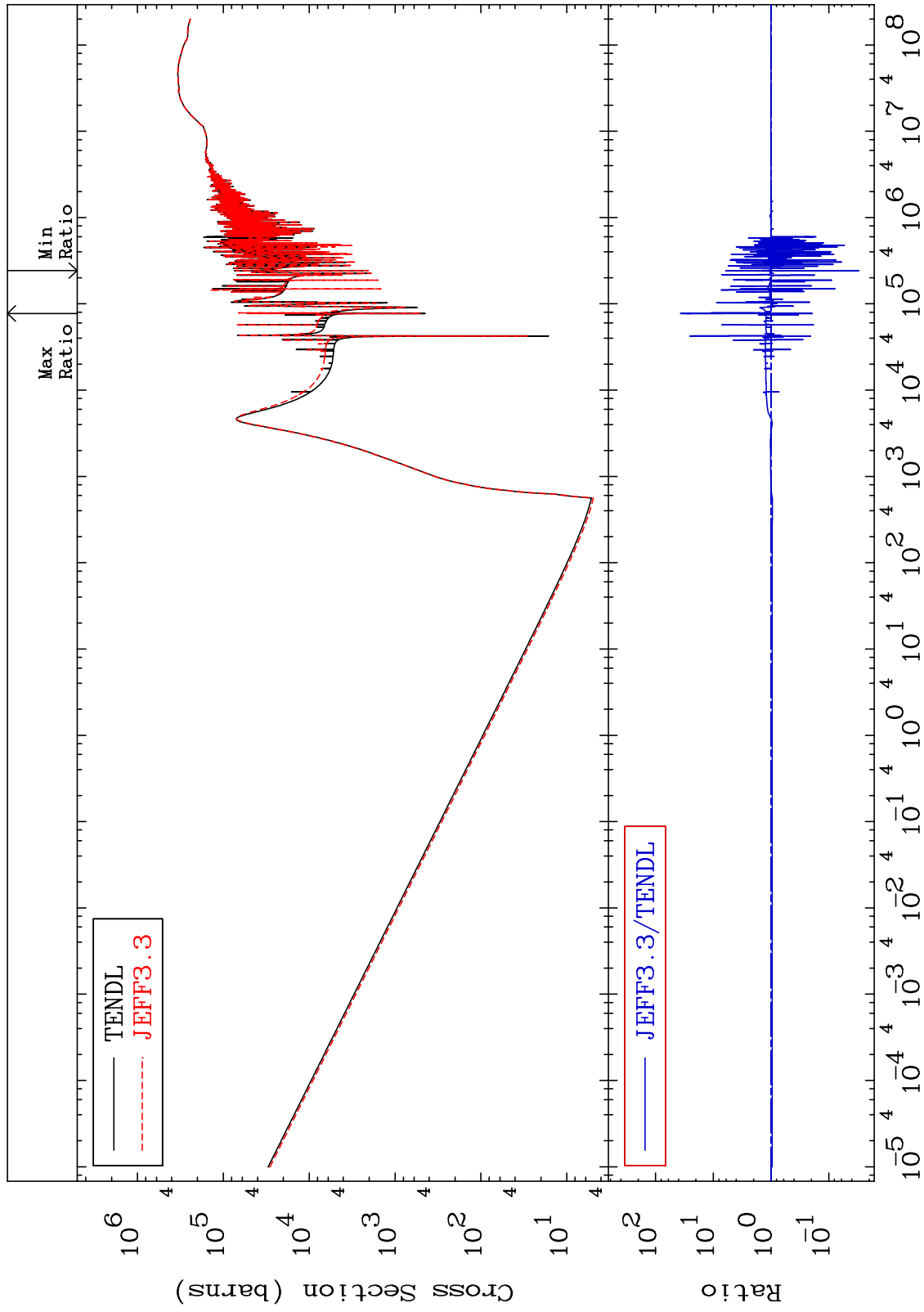
28-Ni-62
-97.01 To 3575. %



MAT 2837

Dpa total (eV-barns)
Cross Section

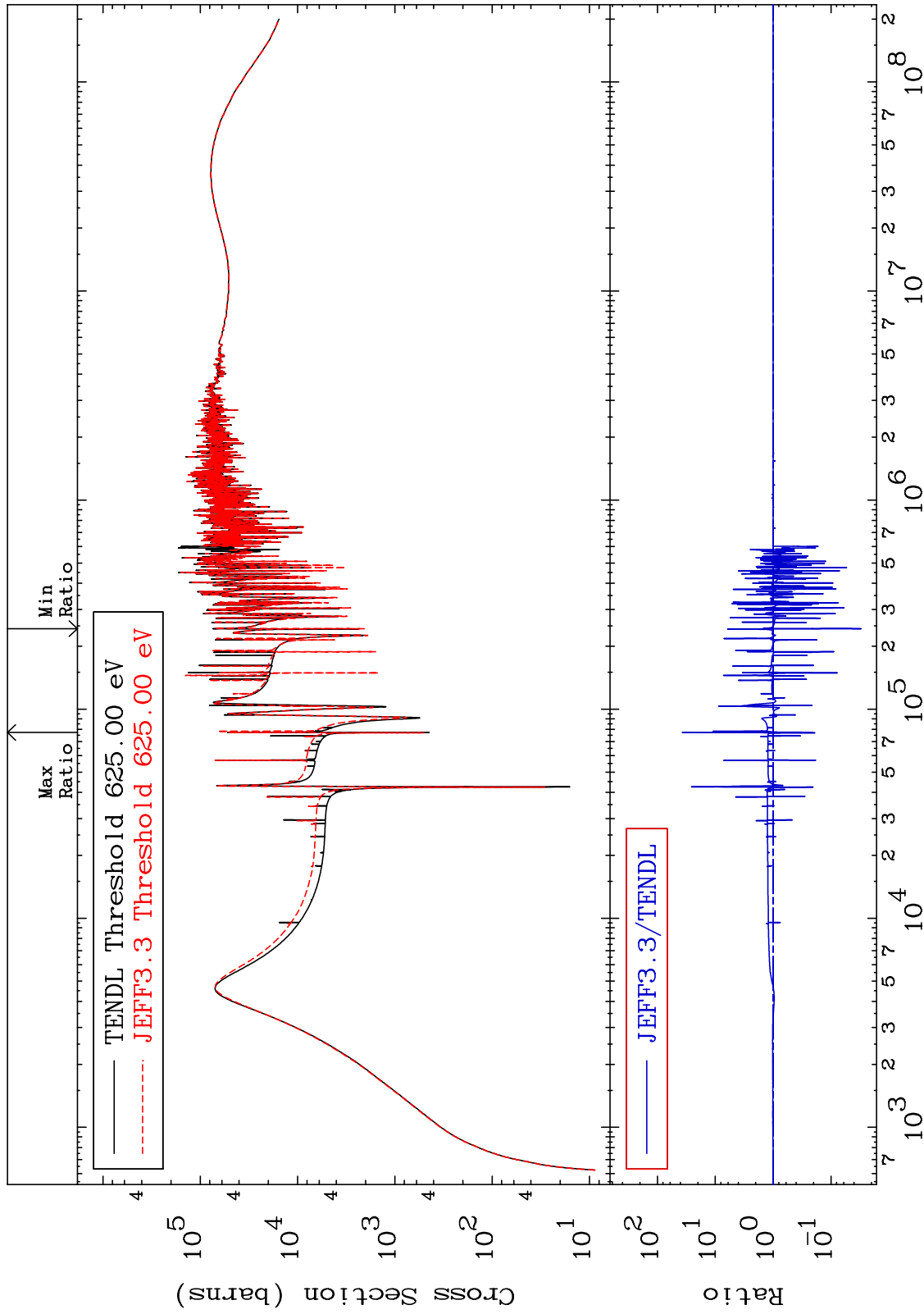
28-Ni-62
-97.01 To 3575. %



MAT 2837

Dpa elastic (mt2)
Cross Section

28-Ni-62
-97.01 To 3589. %



75

Incident Energy (eV)

28-Ni-62

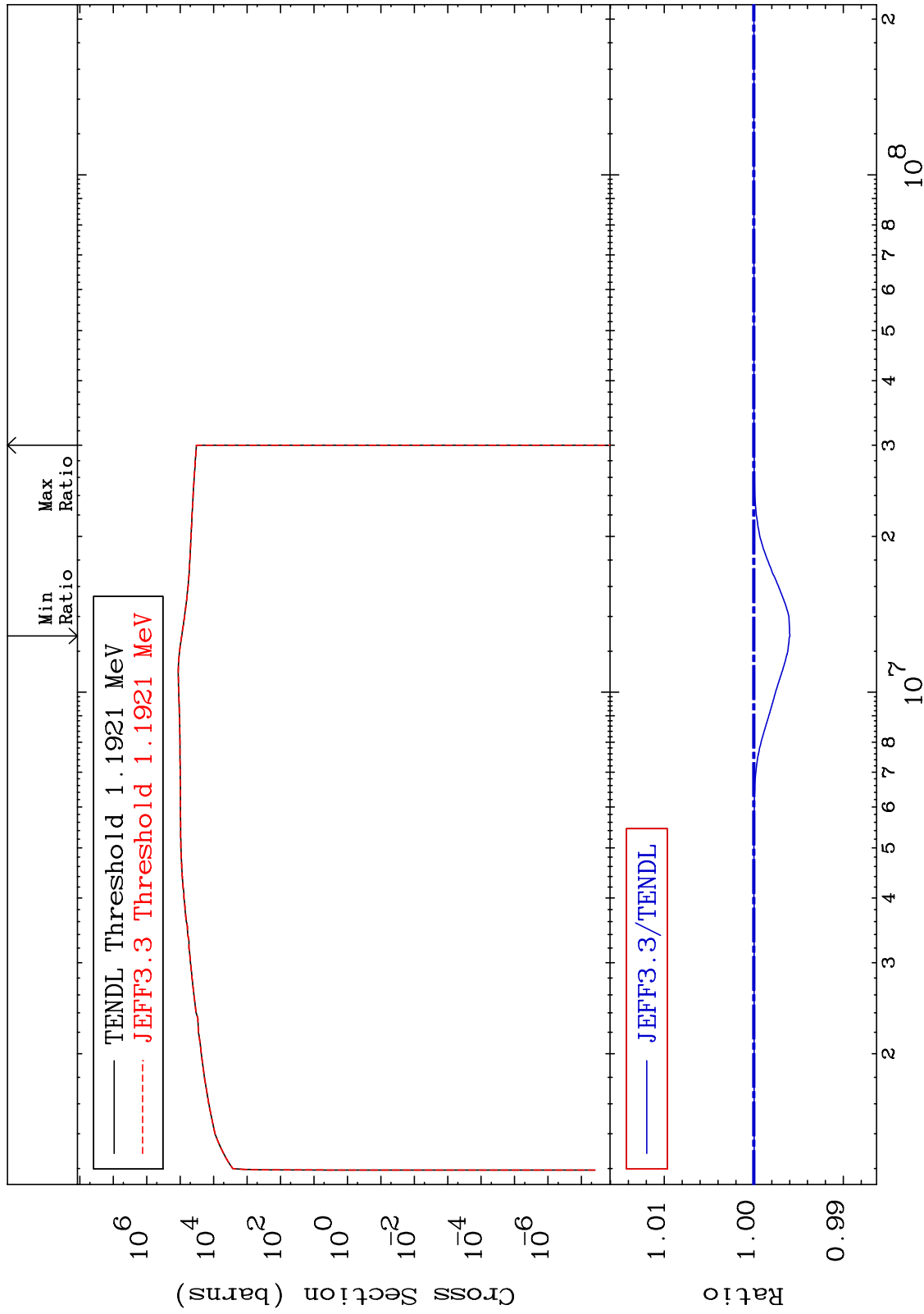
MAT 2837

Dpa inelastic (mt51-91)

28-Ni-62

-0.403 To 0.000 %

Cross Section



76

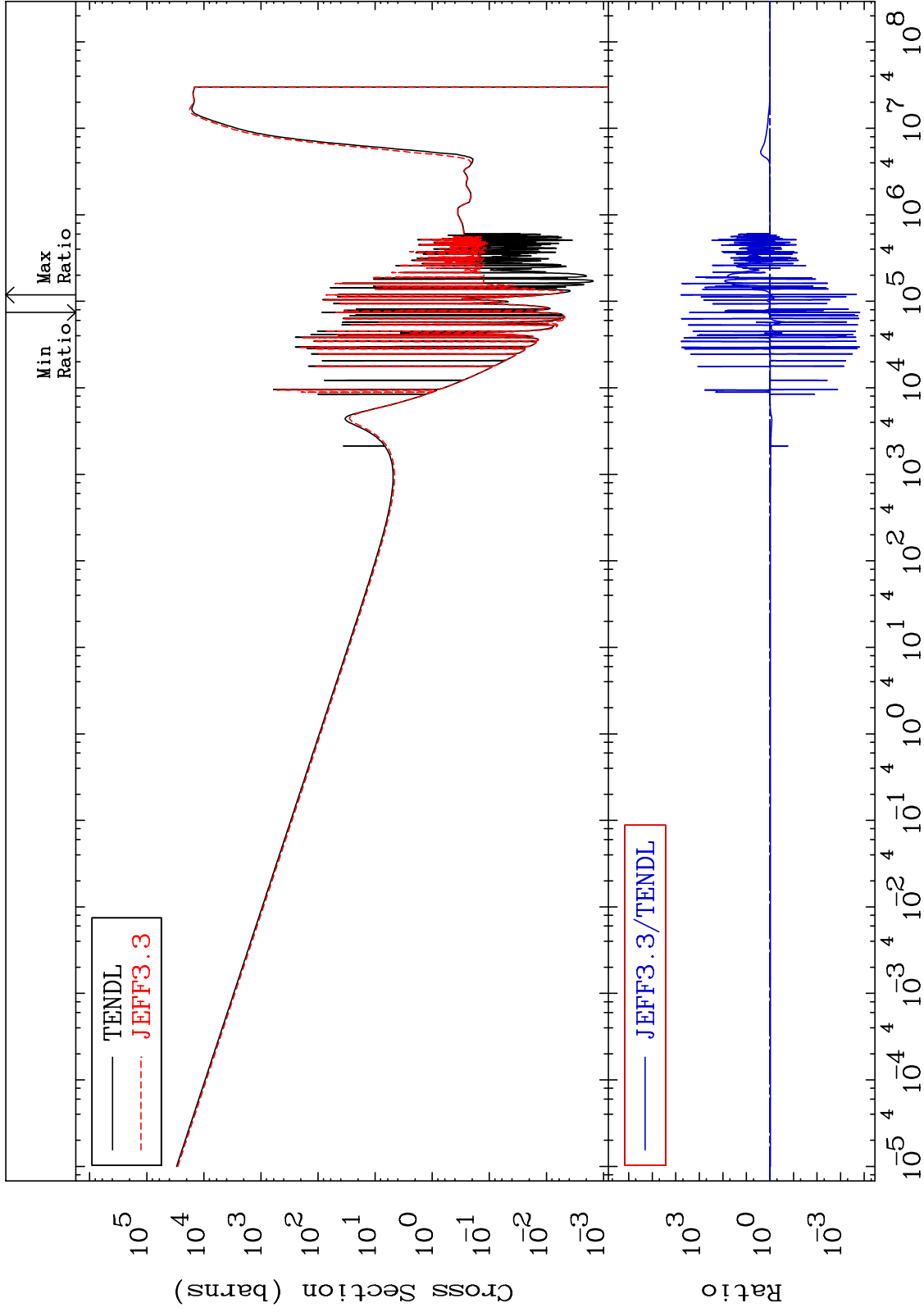
Incident Energy (eV)

28-Ni-62

MAT 2837

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-62
-99.98 To 9999. %

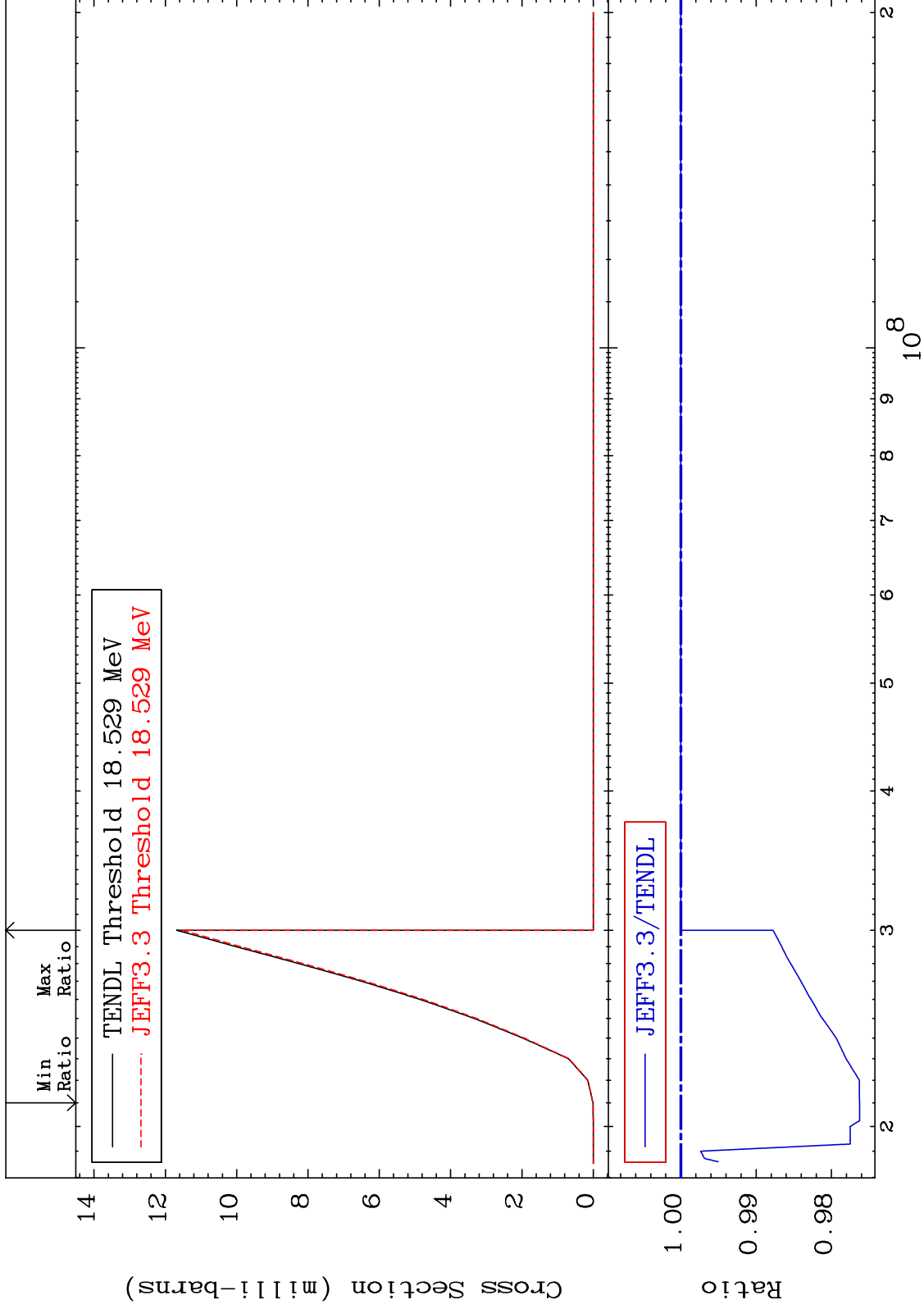


MAT 2837

(n, n') d:27-Co-60g

28-Ni-62

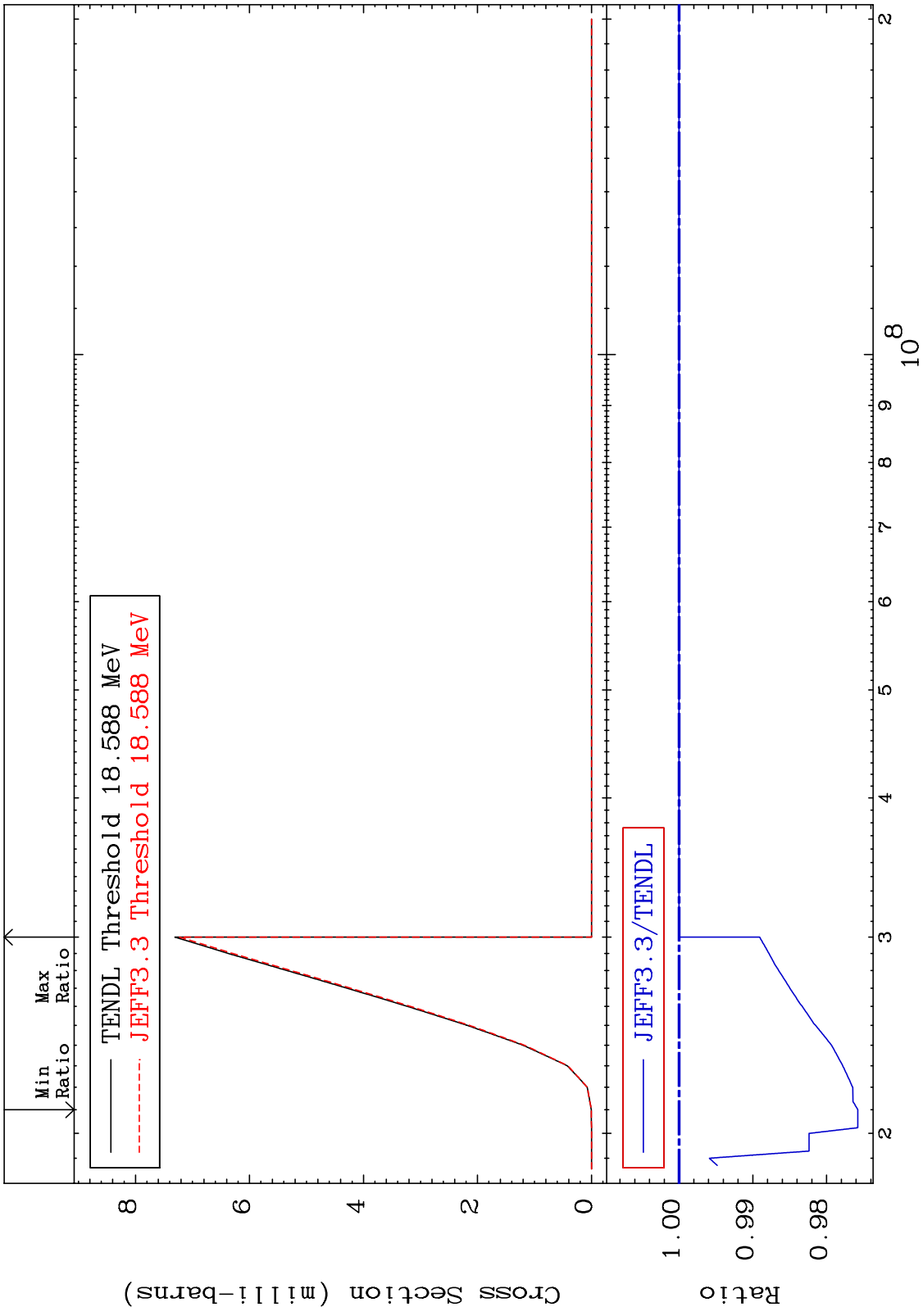
Radionuclide Production Cross Section -2.375 To 0.000 %



78

Incident Energy (eV)

28-Ni-62

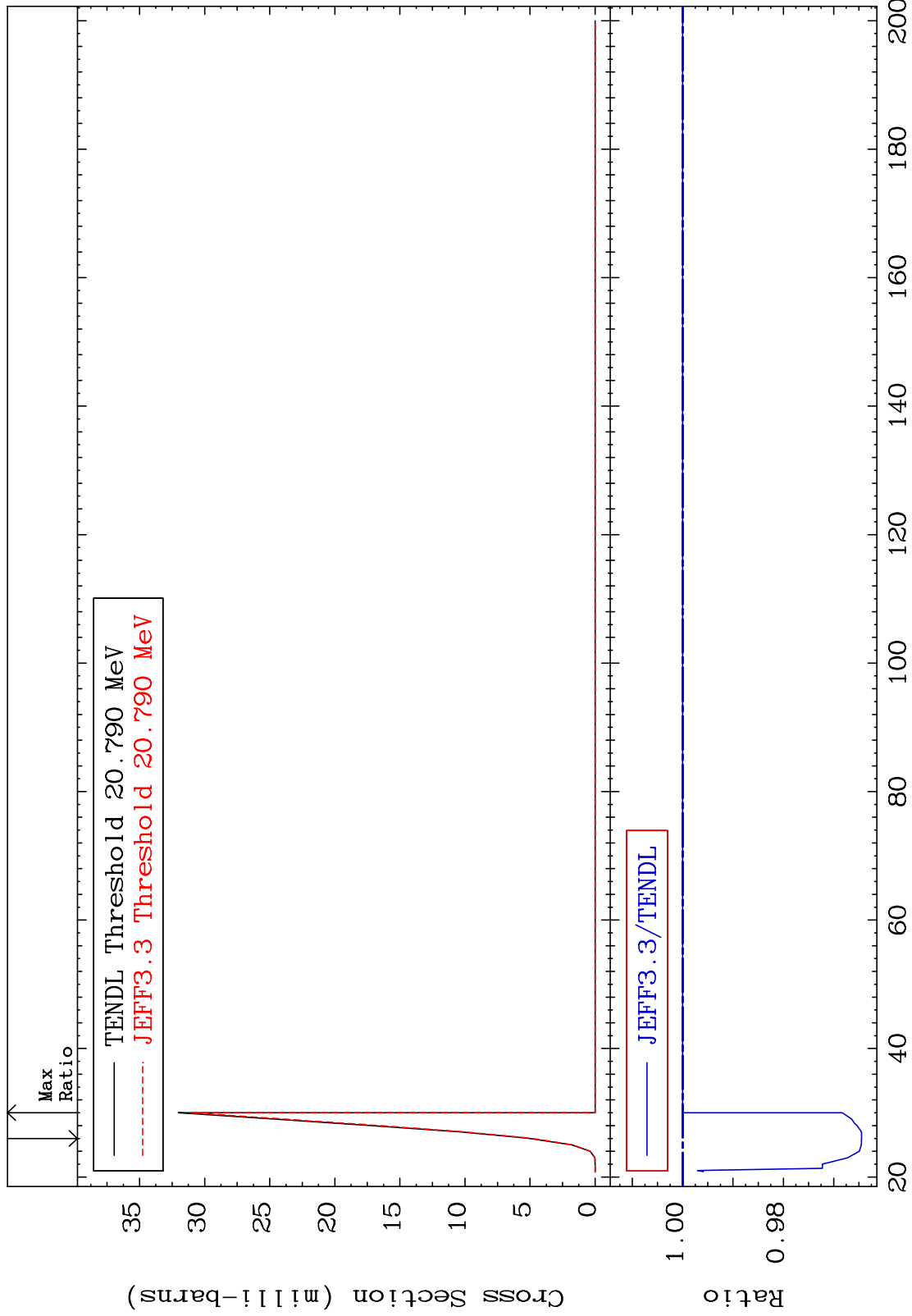


MAT 2837

(n,2n) p:27-Co-60g

28-Ni-62

Radionuclide Production Cross Section -3.554 To 0.000 %



80

Incident Energy (MeV)

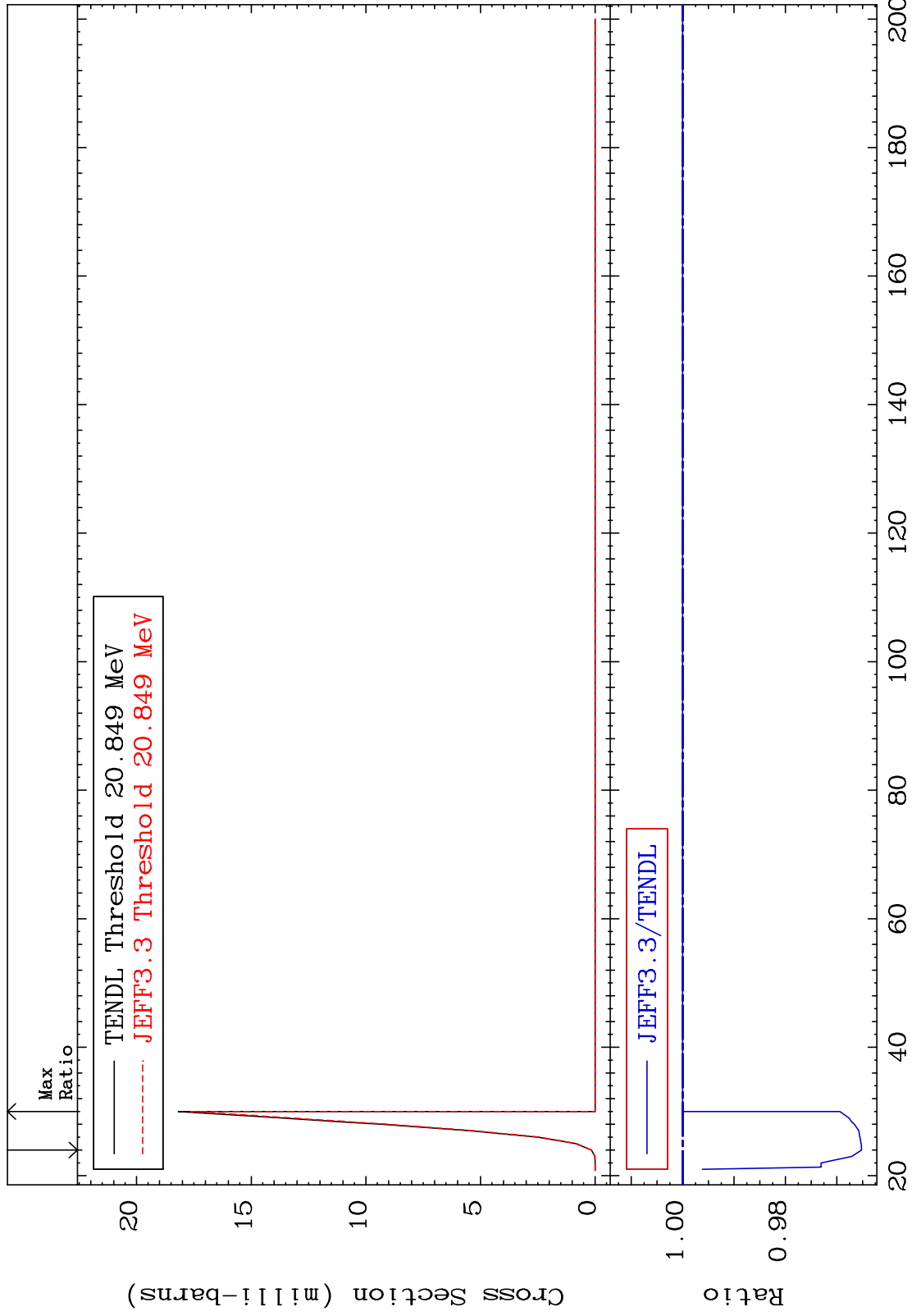
28-Ni-62

MAT 2837

(n,2n) p:27-Co-60m1

28-Ni-62

Radionuclide Production Cross Section -3.481 To 0.000 %

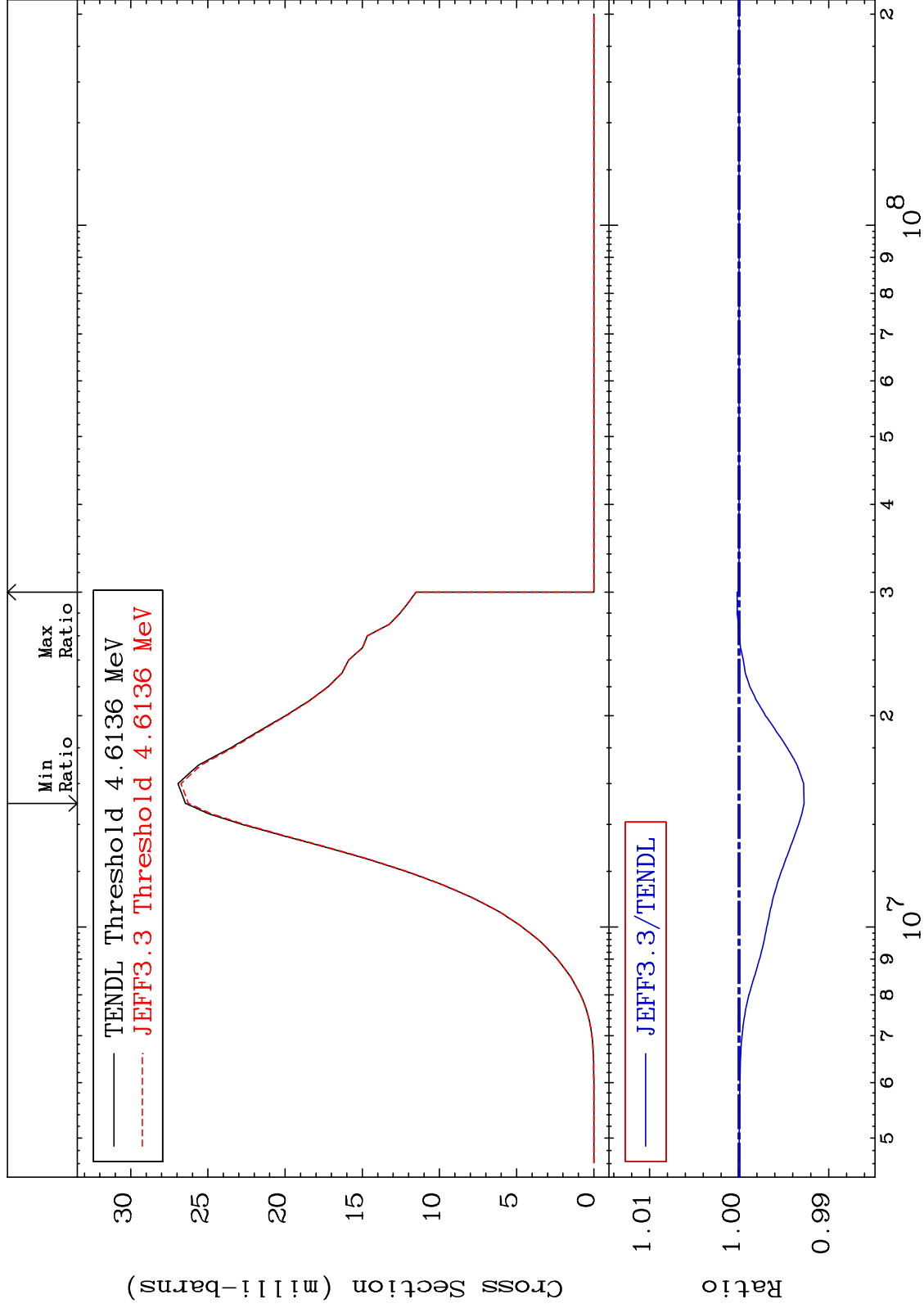


MAT 2837

(n,p):27-Co-62g

28-Ni-62

Radionuclide Production Cross Section -0.725 To 0.023 %



82

Incident Energy (eV)

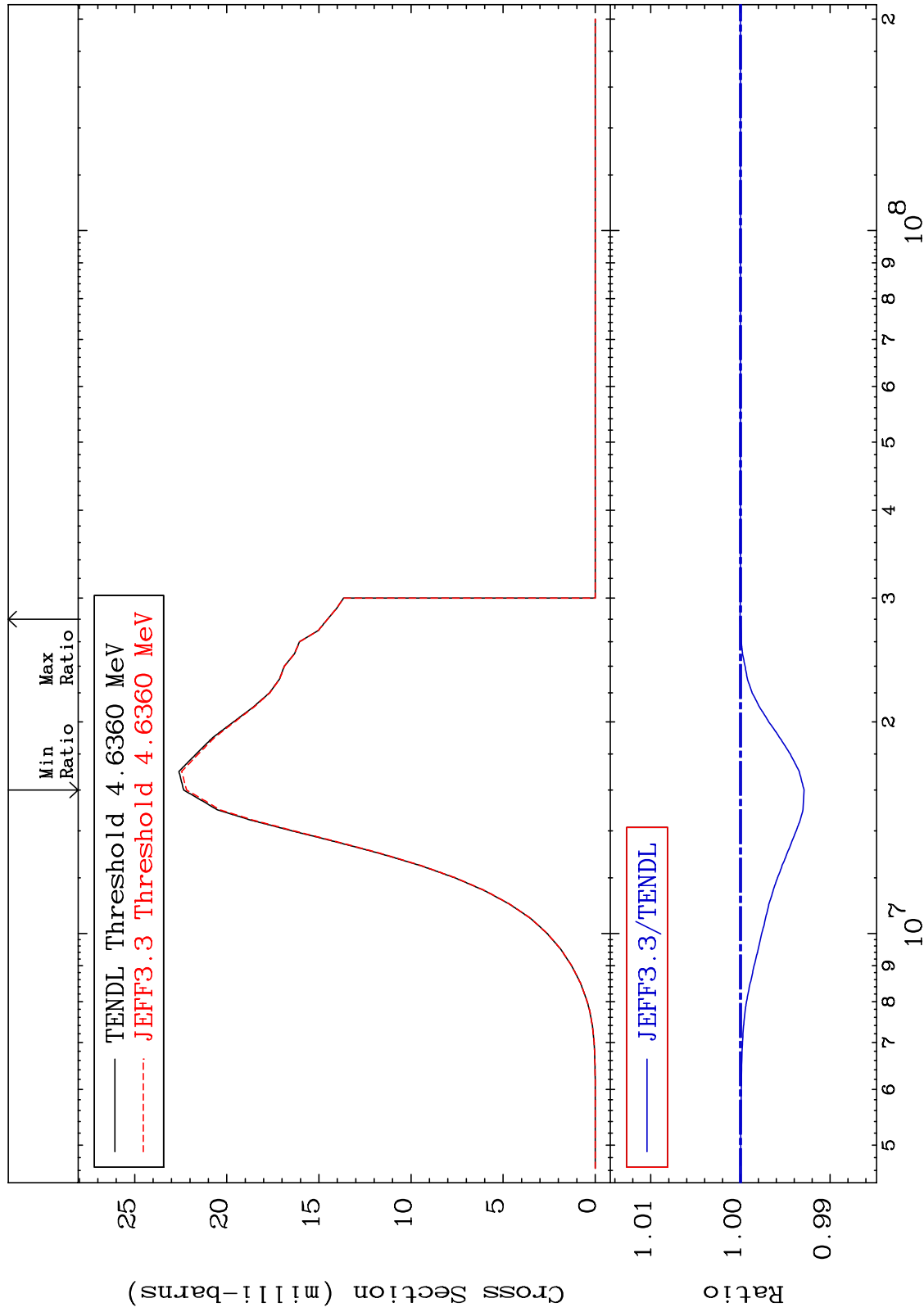
28-Ni-62

MAT 2837

(n,p):27-Co-62m1

28-Ni-62

Radionuclide Production Cross Section -0.709 To 0.006 %

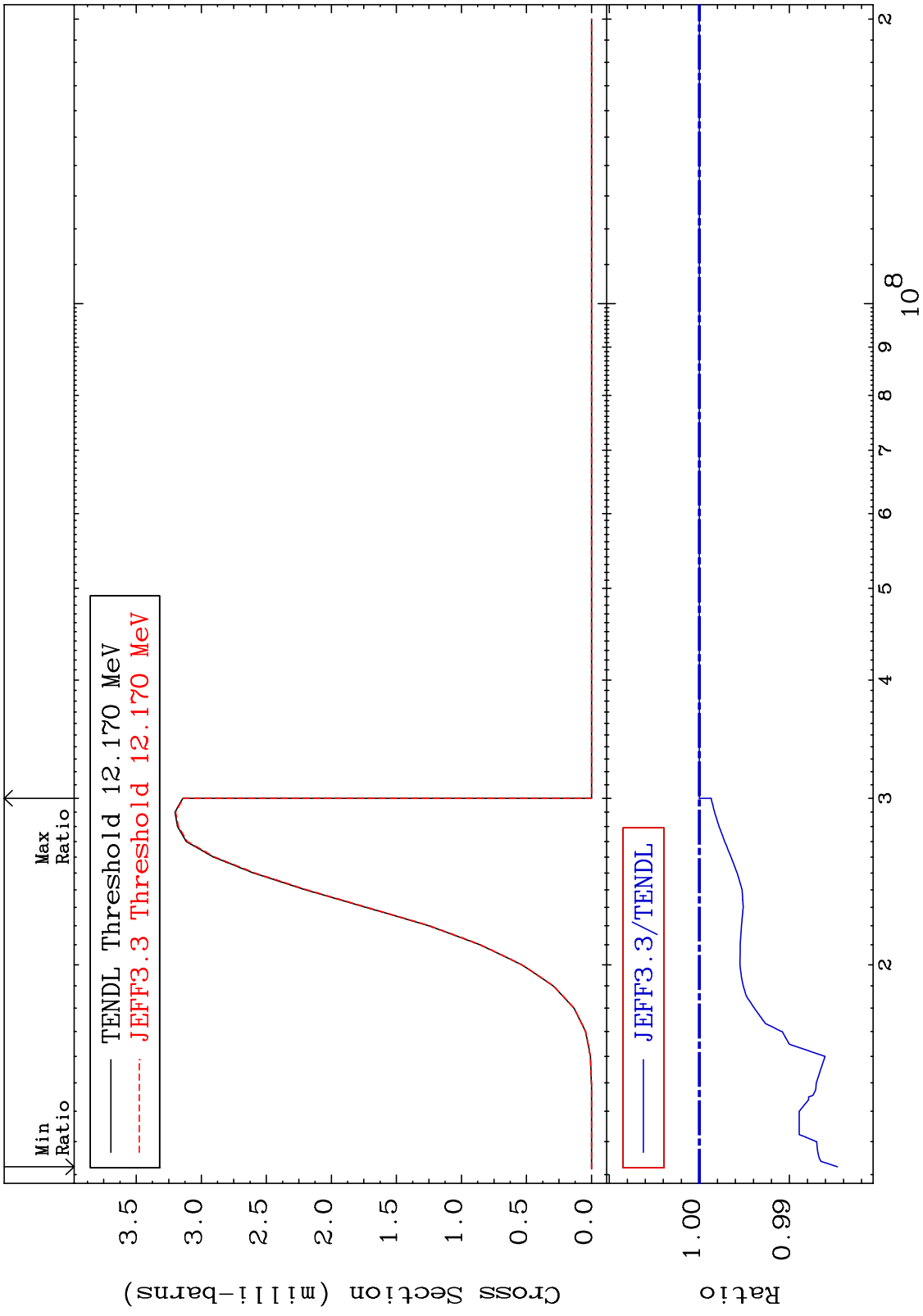


83

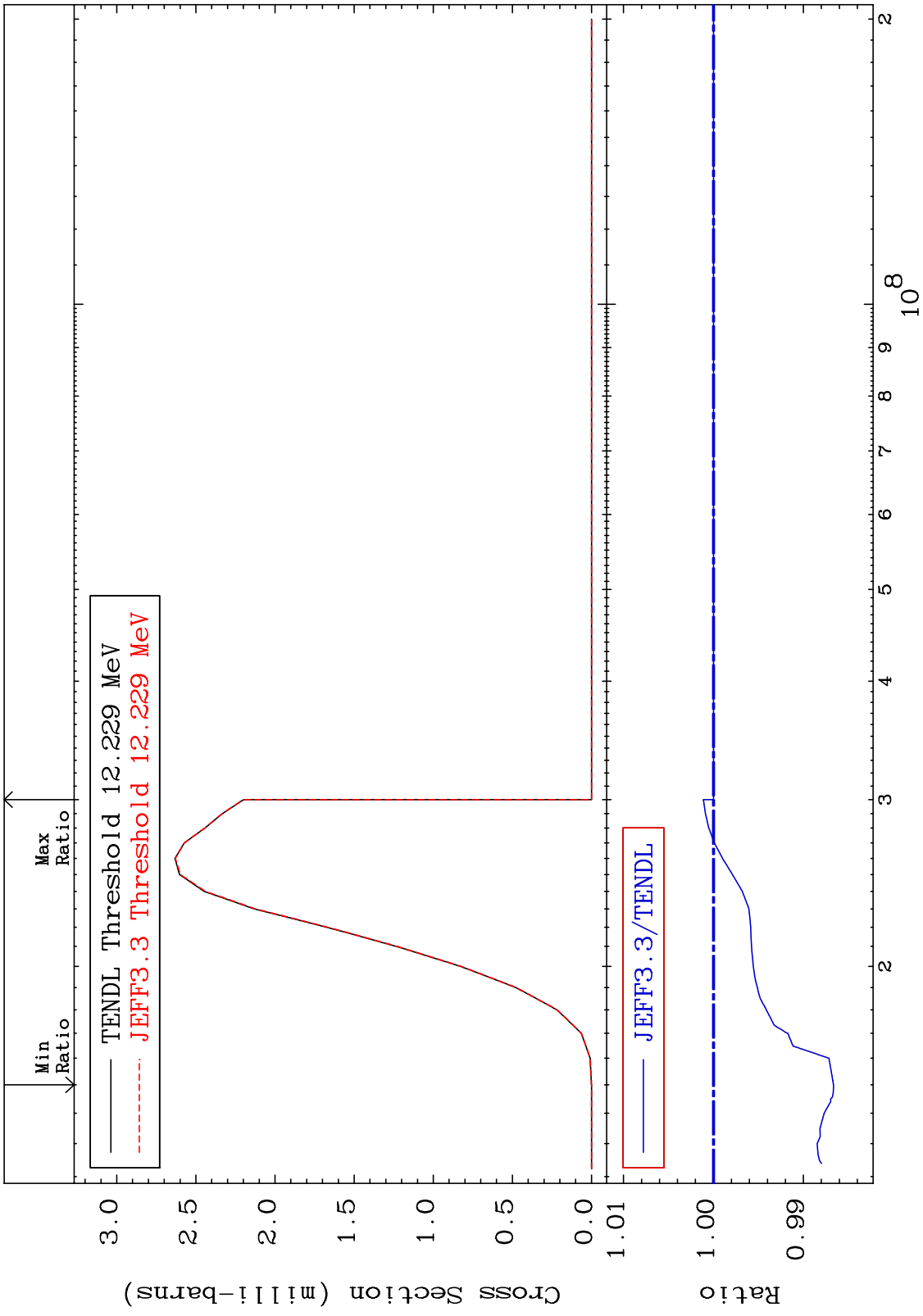
Incident Energy (eV)

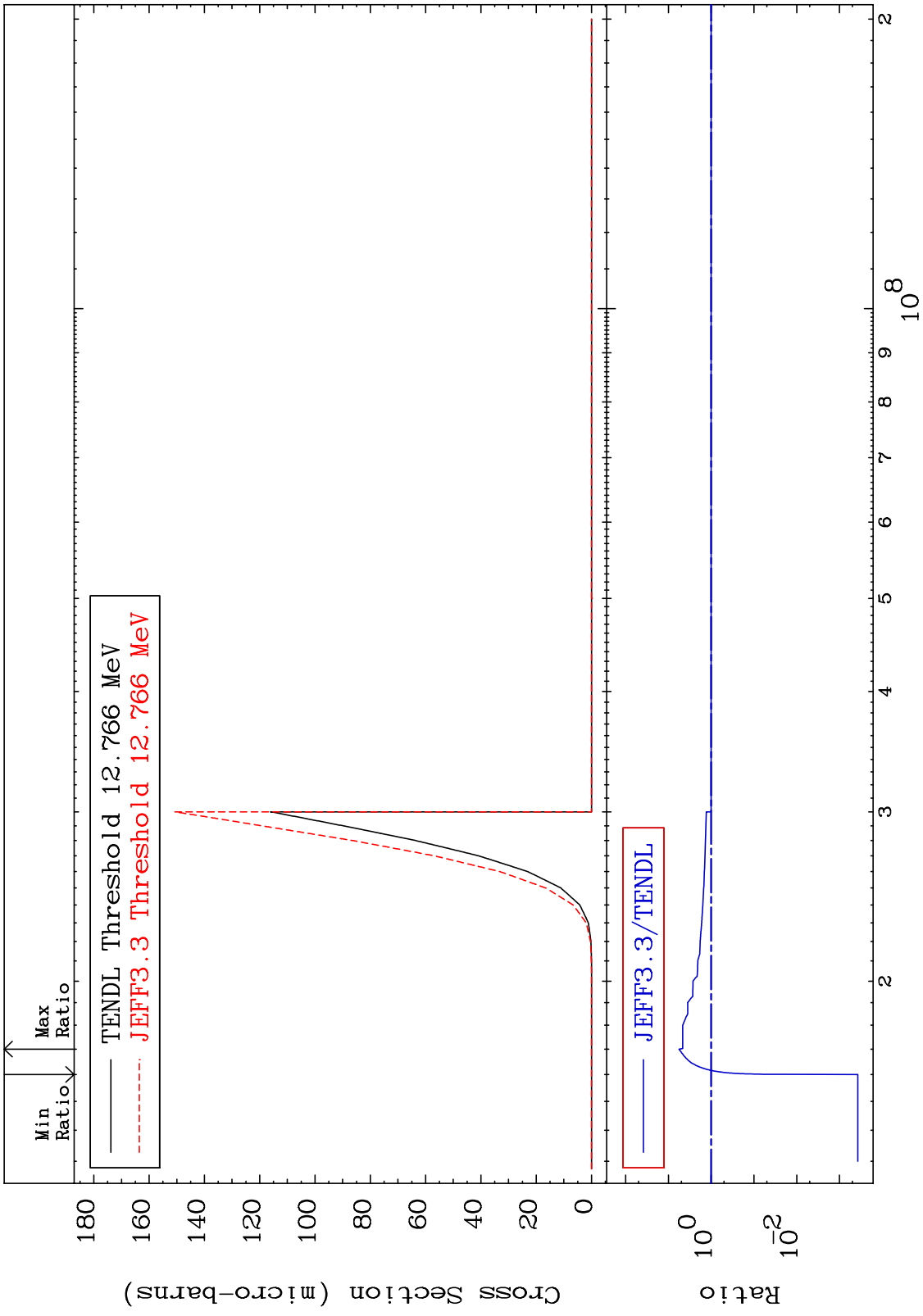
28-Ni-62

MAT 2837 (n,t):27-Co-60g 28-Ni-62
 Radionuclide Production Cross Section -1.534 To 0.000 %



MAT 2837 (n,t):27-Co-60m1 28-Ni-62
 Radionuclide Production Cross Section -1.335 To 0.112 %





MAT 2837 (n,p) α :25-Mn-58m1 28-Ni-62
 Radionuclide Production Cross Section 0.000 To 469.8 %

