

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

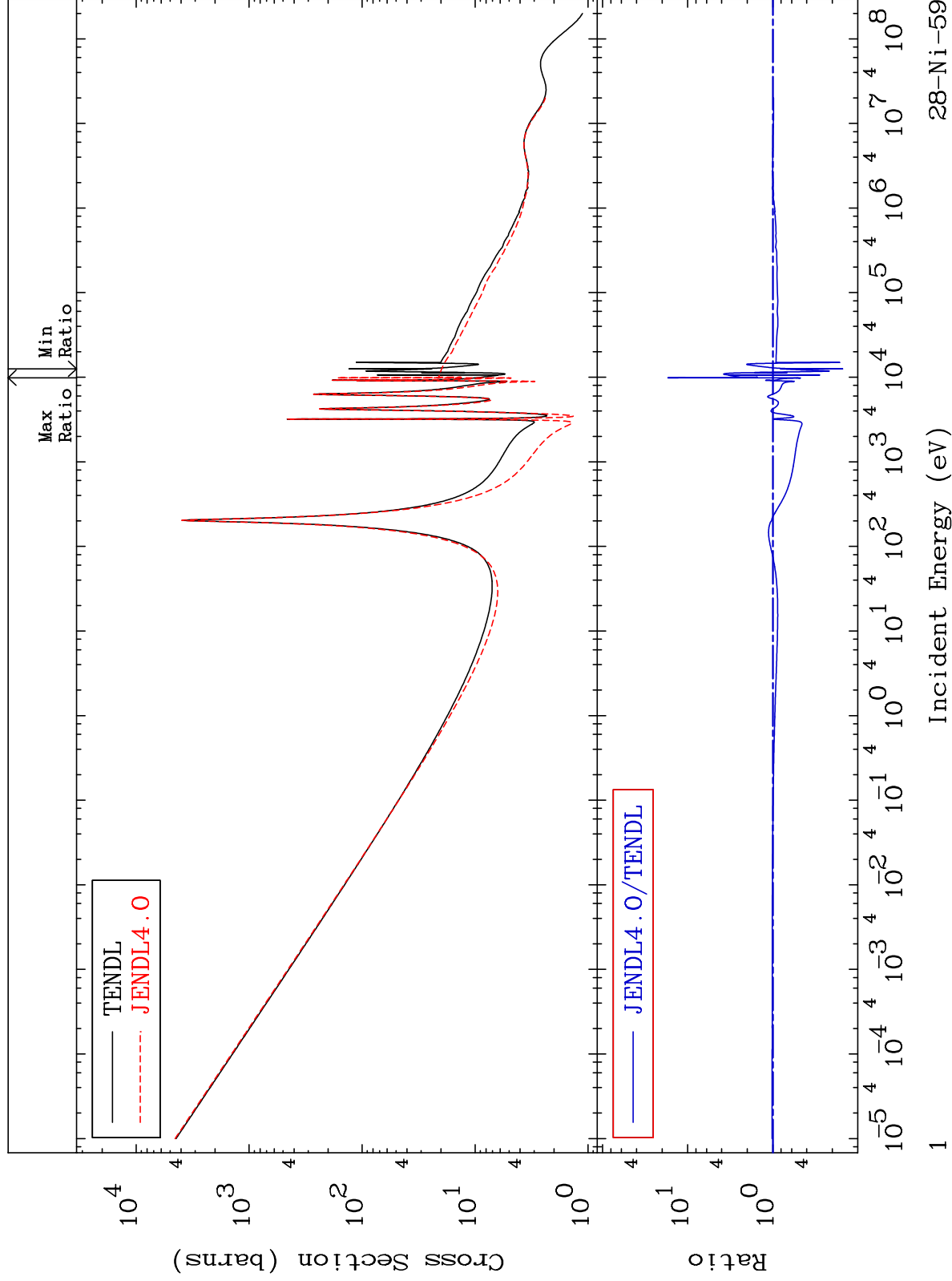
MAT 2828

Total

28-Ni-59

Cross Section

-84.92 To 1604. %



28-Ni-59

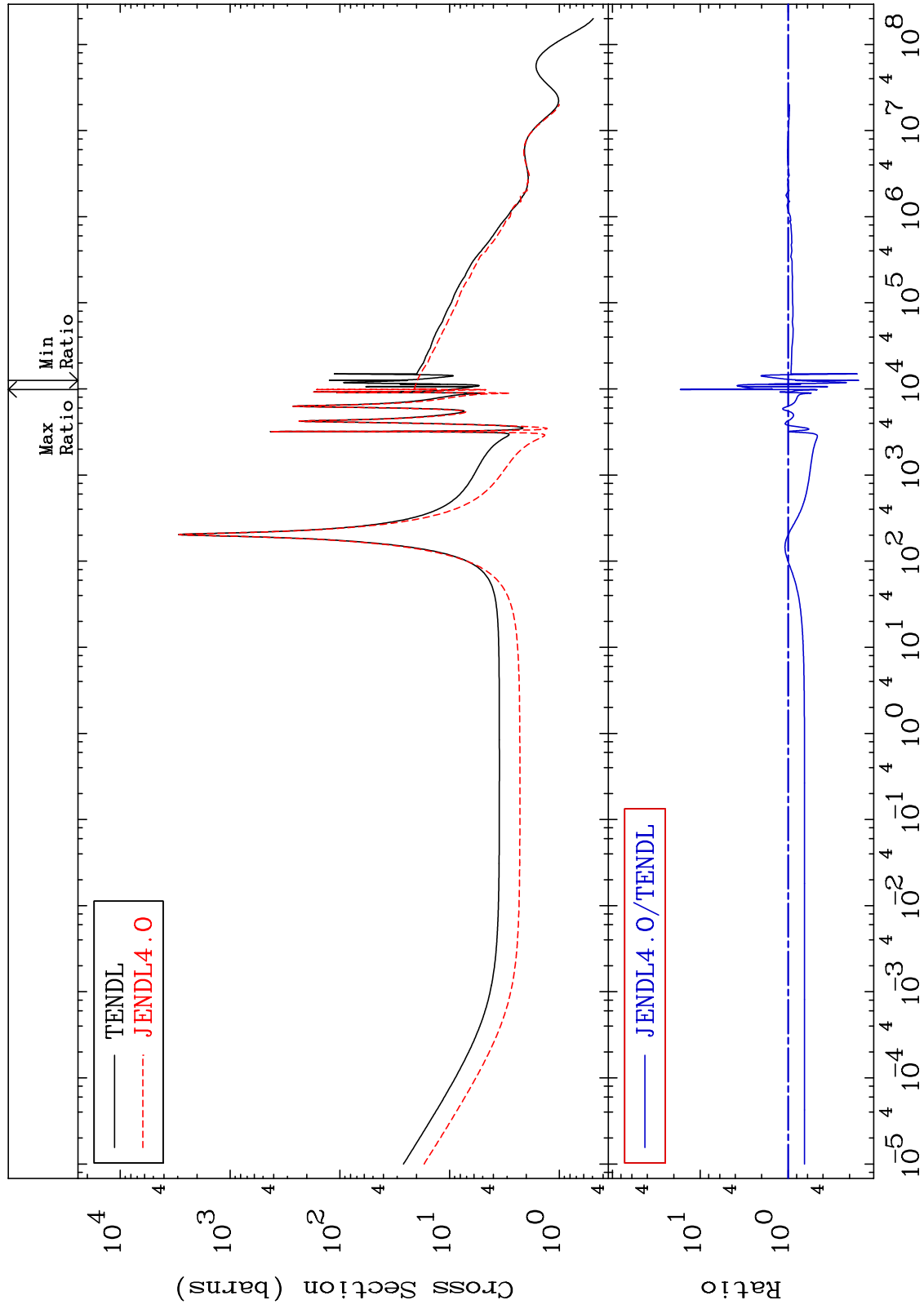
Incident Energy (eV)

1

MAT 2828

Elastic
Cross Section

28-Ni-59
-84.22 To 1580. %

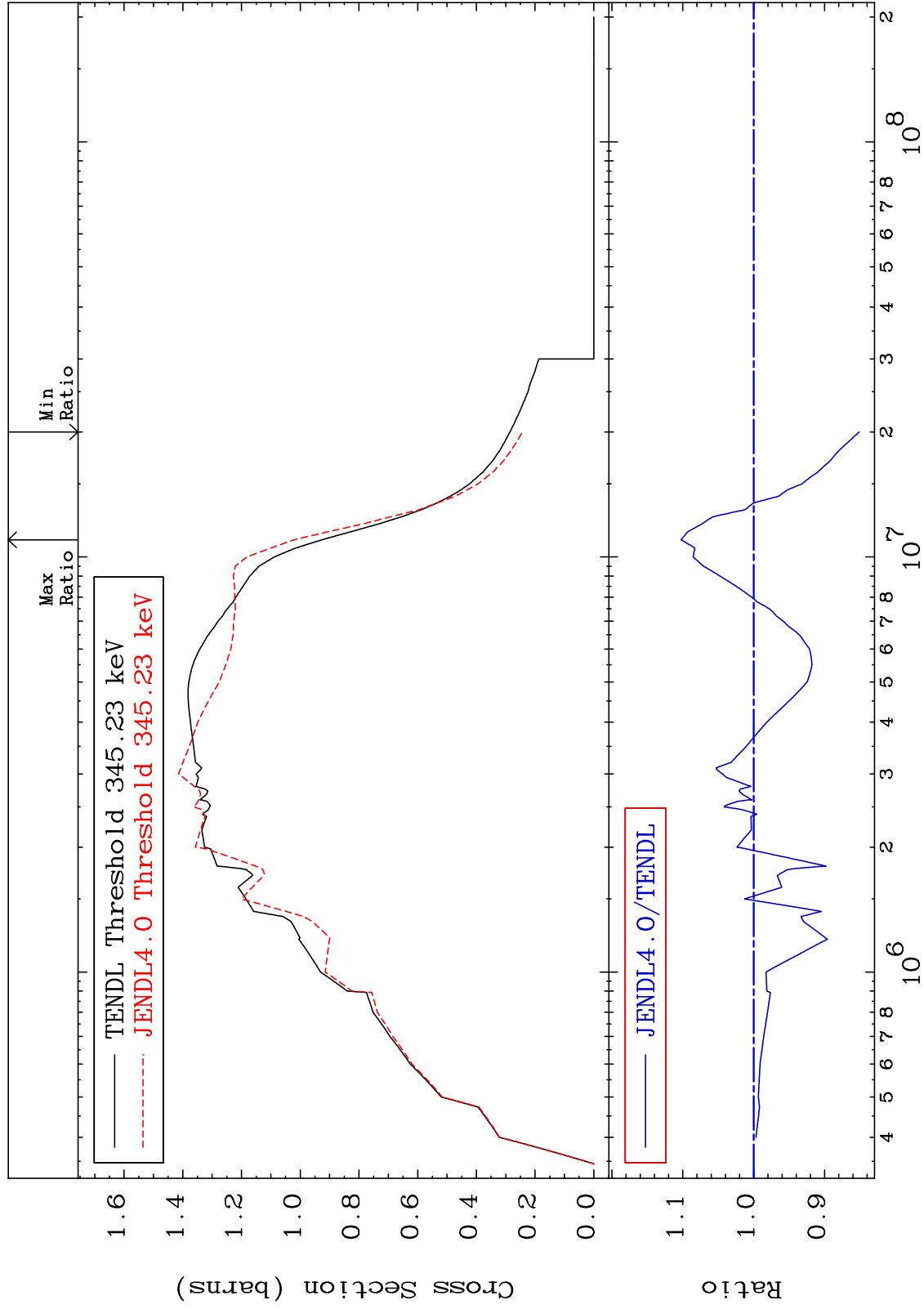


MAT 2828

Inelastic
Cross Section

28-Ni-59

-14.90 To 10.25 %



3

Incident Energy (eV)

28-Ni-59

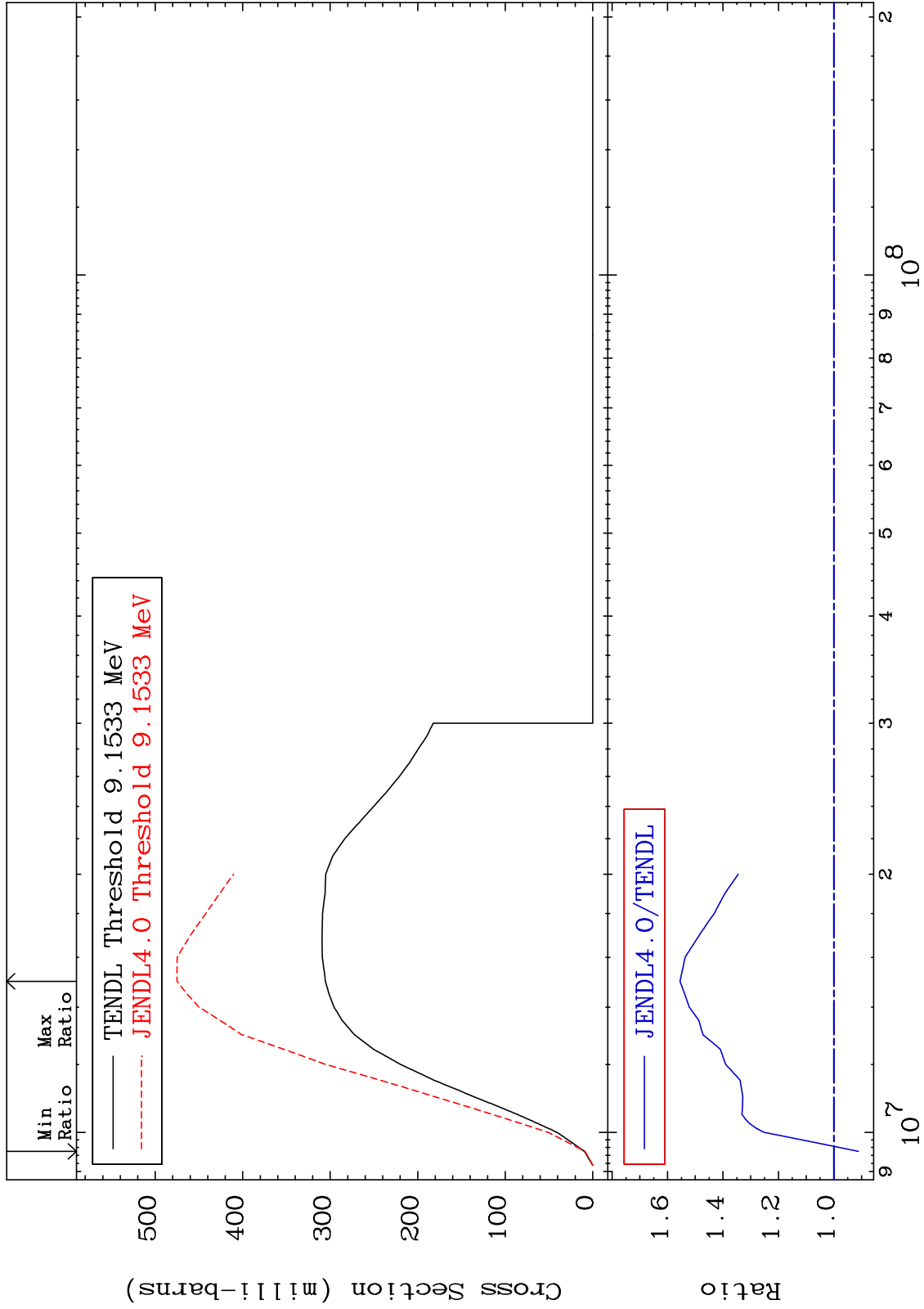
MAT 2828

(n,2n)

28-Ni-59

Cross Section

-8.864 To 55.52 %



28-Ni-59

4

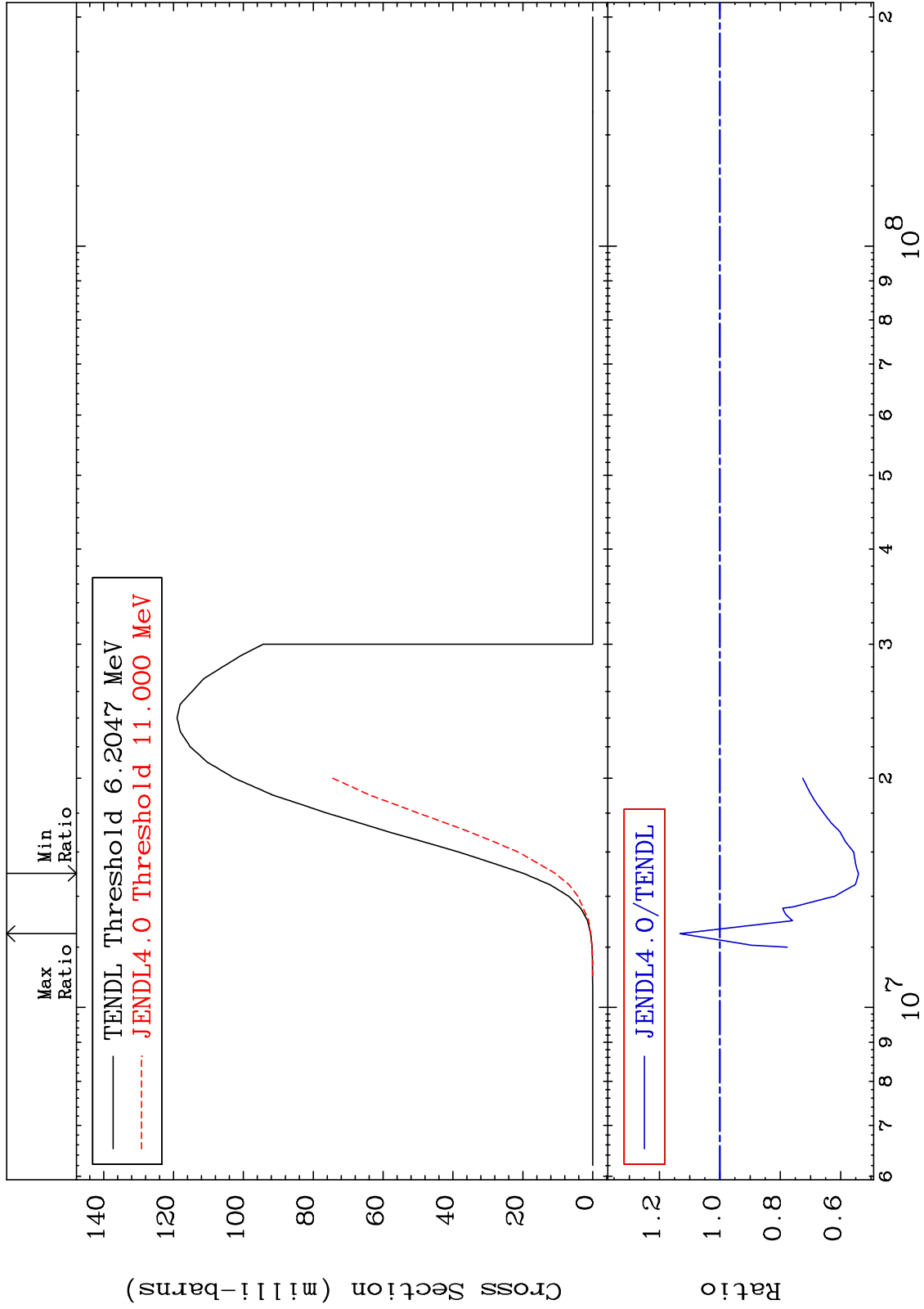
MAT 2828

(n,n') α

28-Ni-59

Cross Section

-45.86 To 13.19 %



5

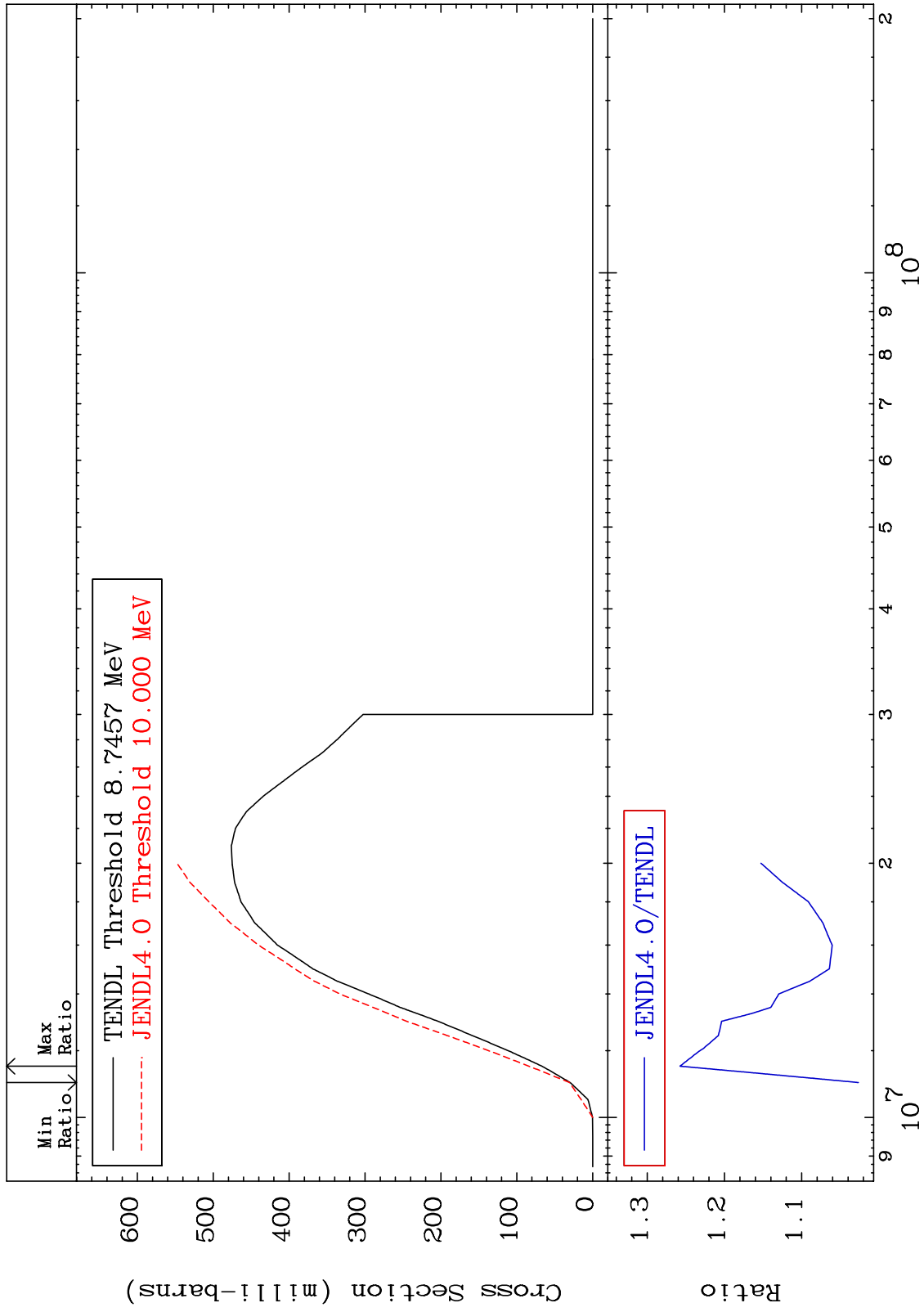
Incident Energy (eV)

28-Ni-59

MAT 2828

(n,n') p
Cross Section

28-Ni-59
To 25.75 %



28-Ni-59

Incident Energy (eV)

6

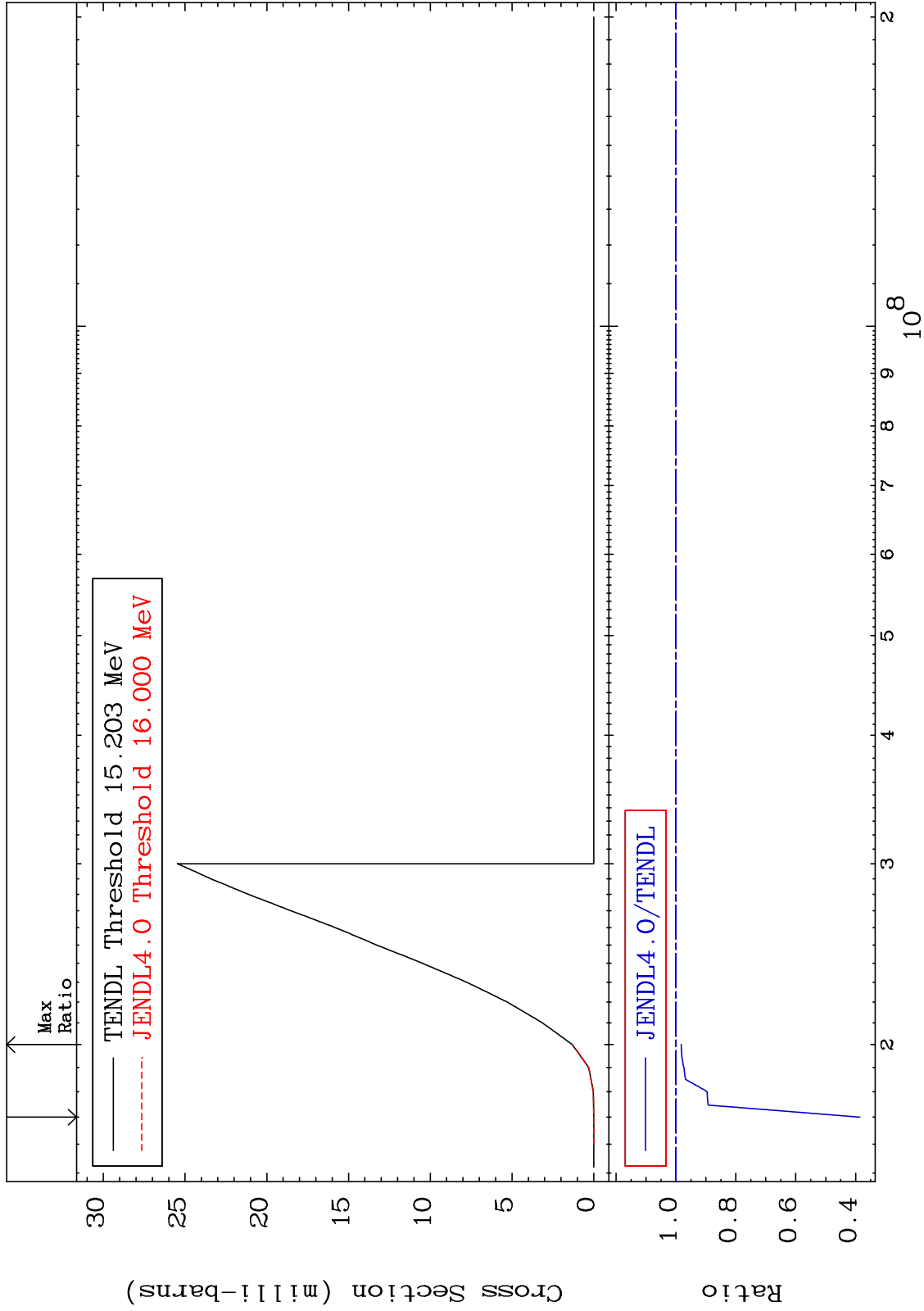
MAT 2828

(n,n') d

28-Ni-59

Cross Section

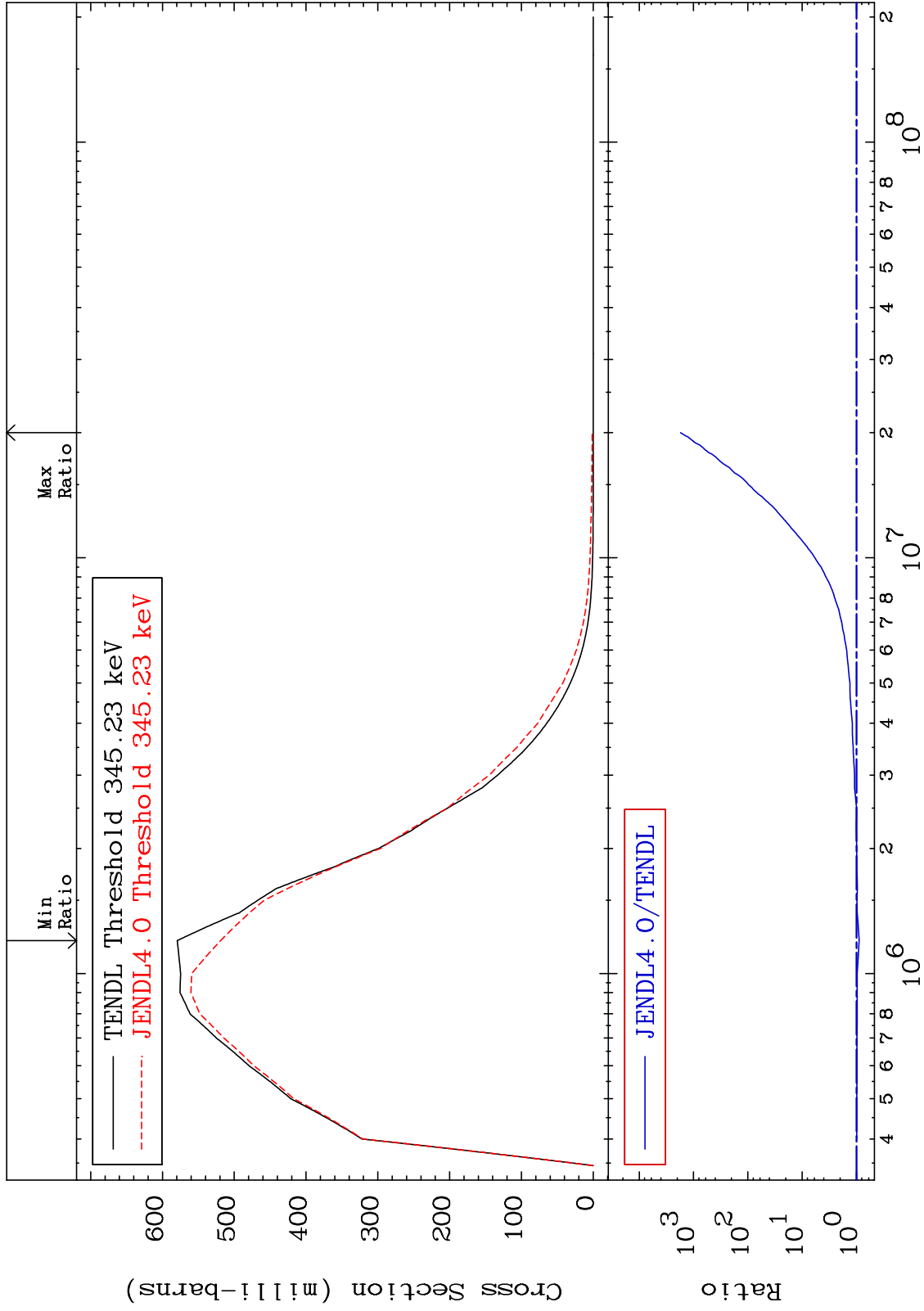
-61.43 To -1.755%



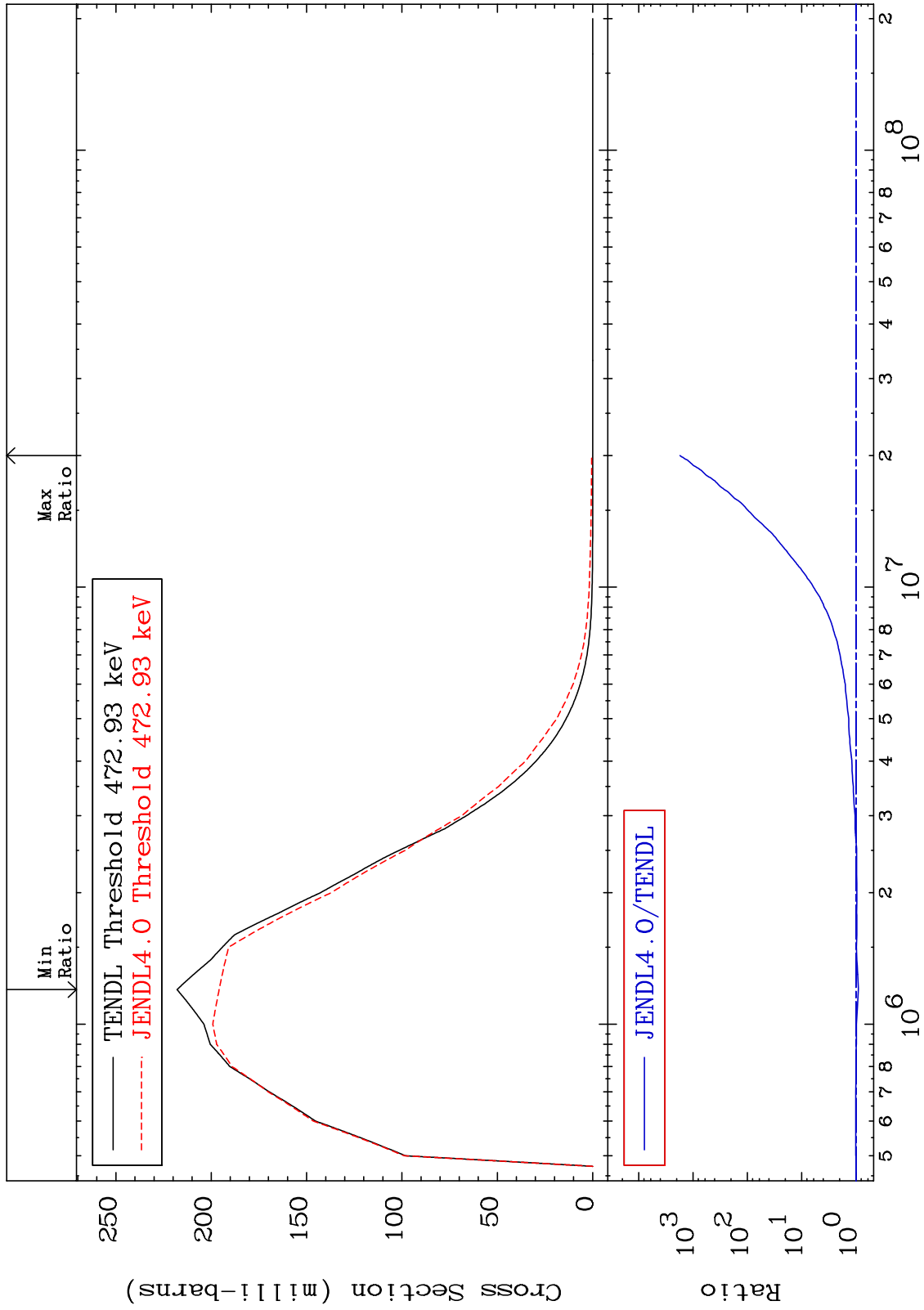
MAT 2828

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

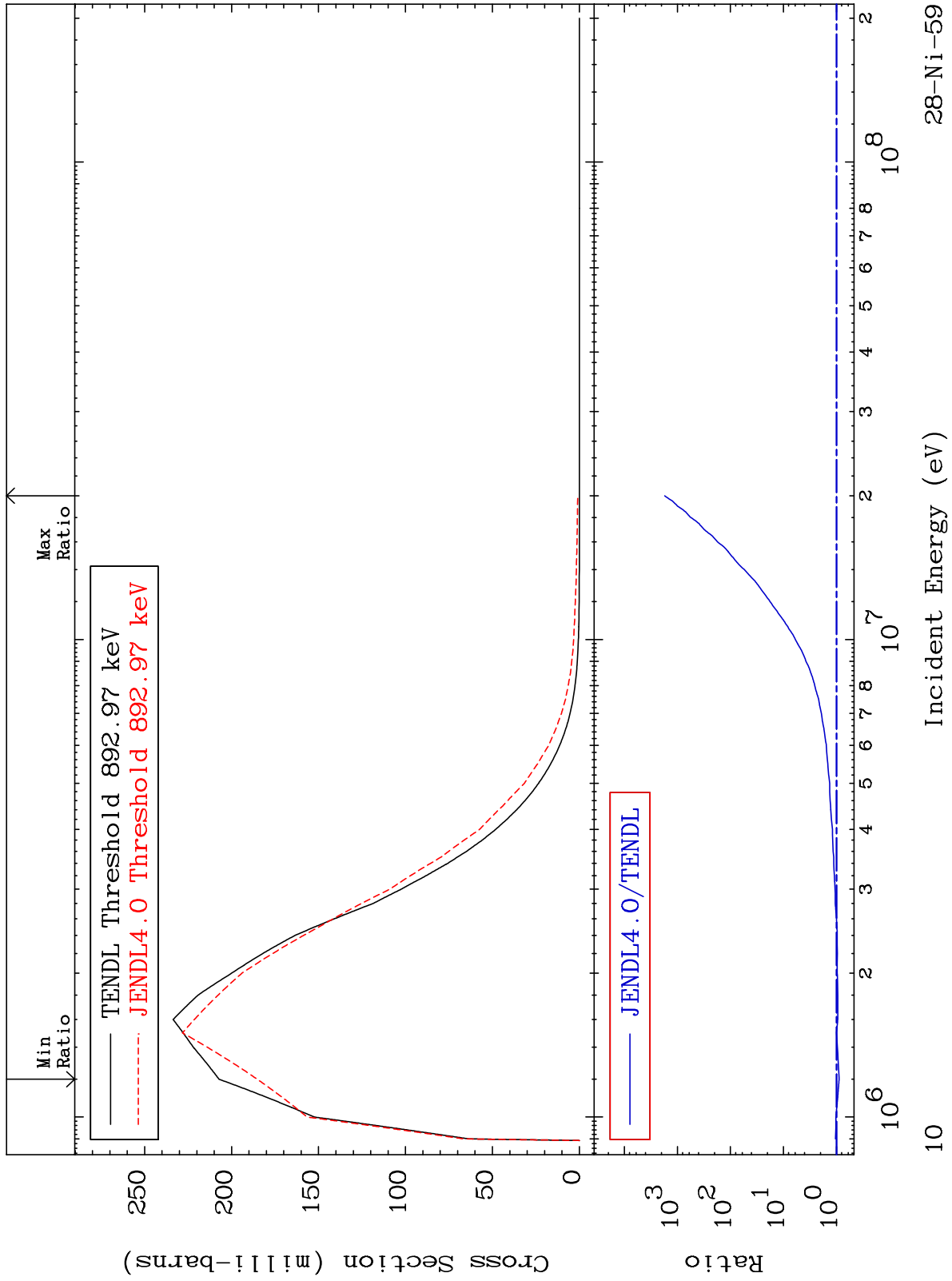
28-Ni-59
-10.45 To 9999. %



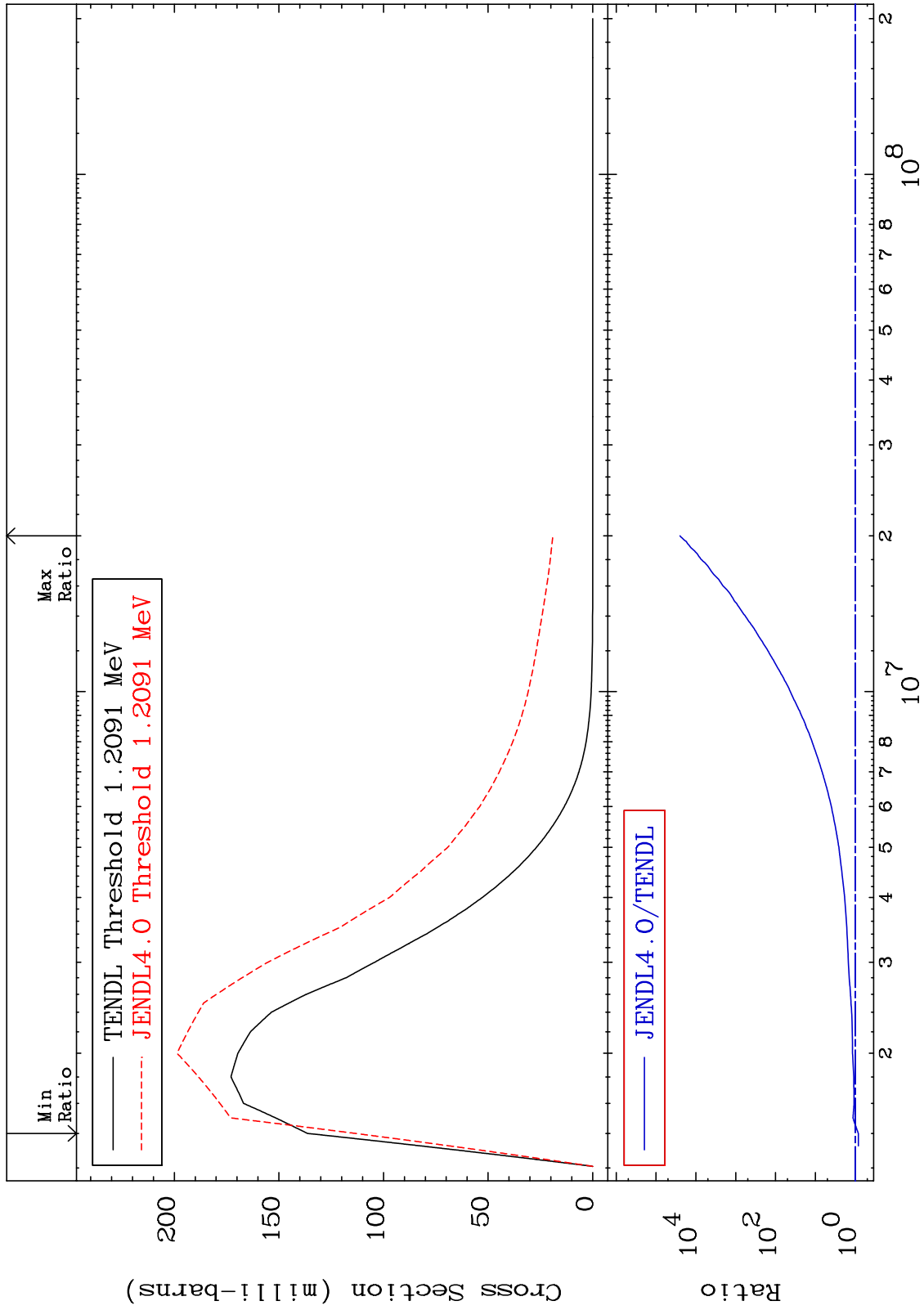
MAT 2828 MT= 52 (n,n') Level 28-Ni-59
 Cross Section -10.12 To 9999. %



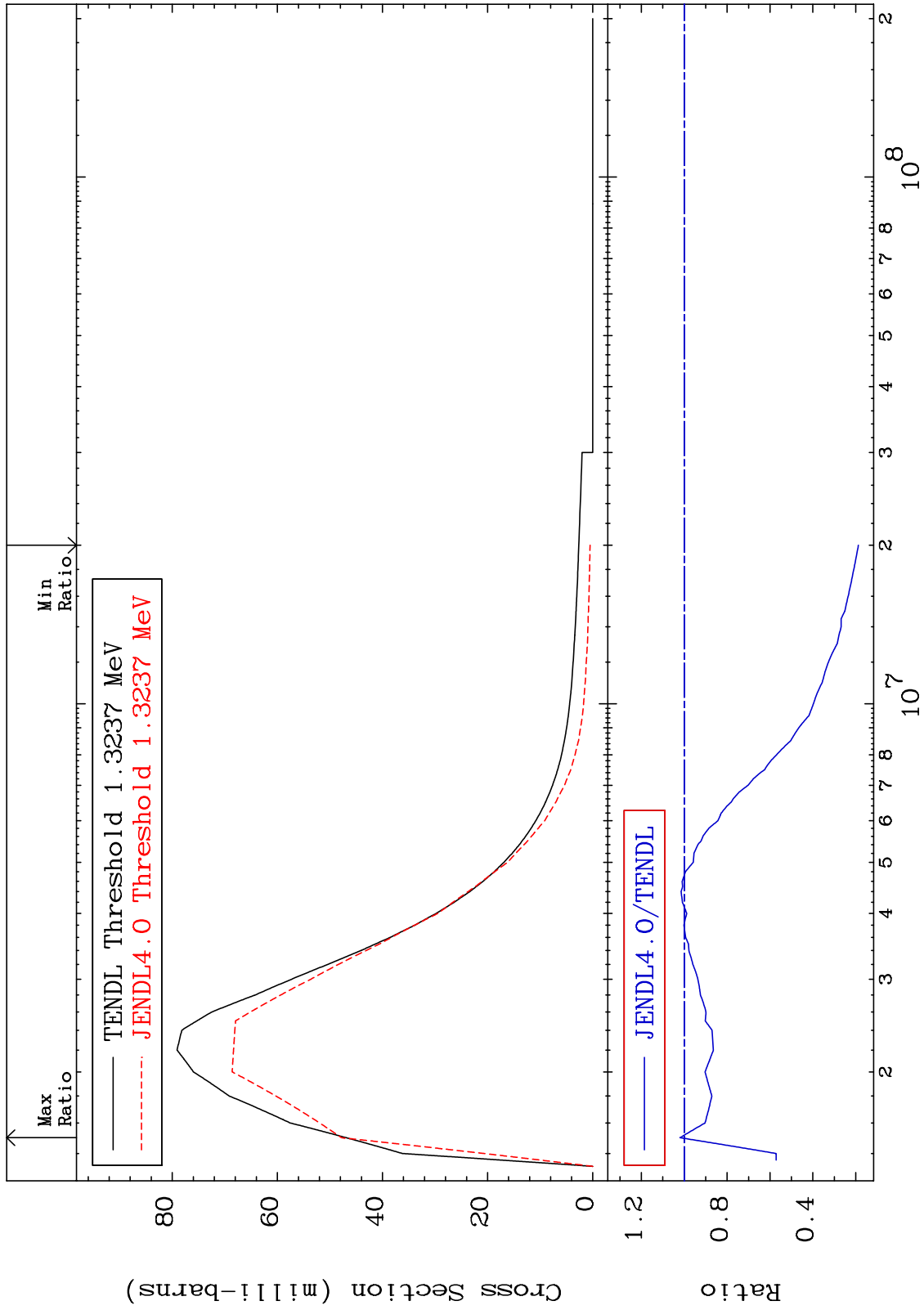
MAT 2828 MT= 53 (n,n') Level 28-Ni-59
Cross Section -10.61 To 9999. %



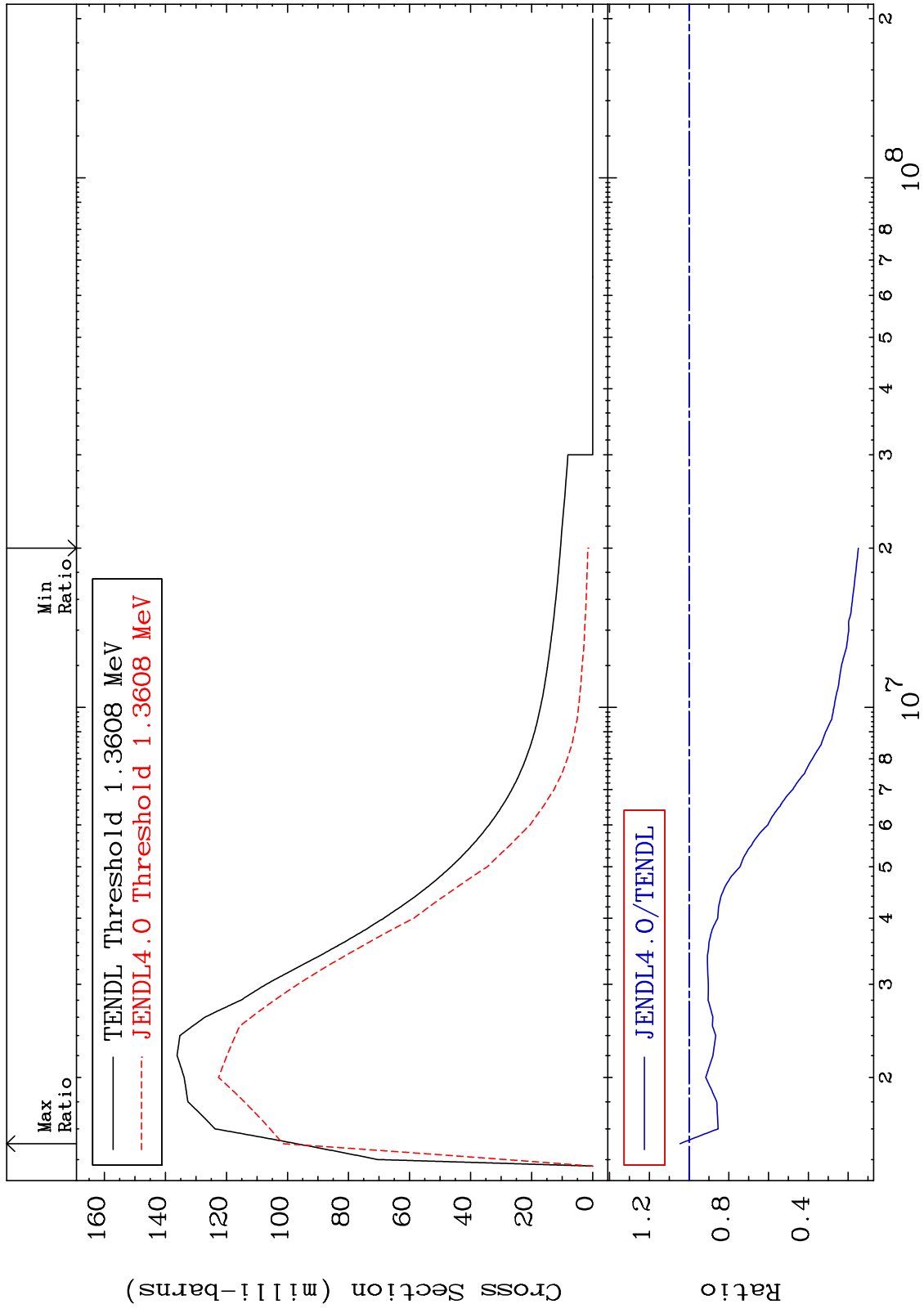
MAT 2828 MT= 54 (n,n') Level 28-Ni-59
 Cross Section -16.73 To 9999. %



MAT 2828 MT= 55 (n,n') Level 28-Ni-59
 Cross Section -81.24 To 1.976 %



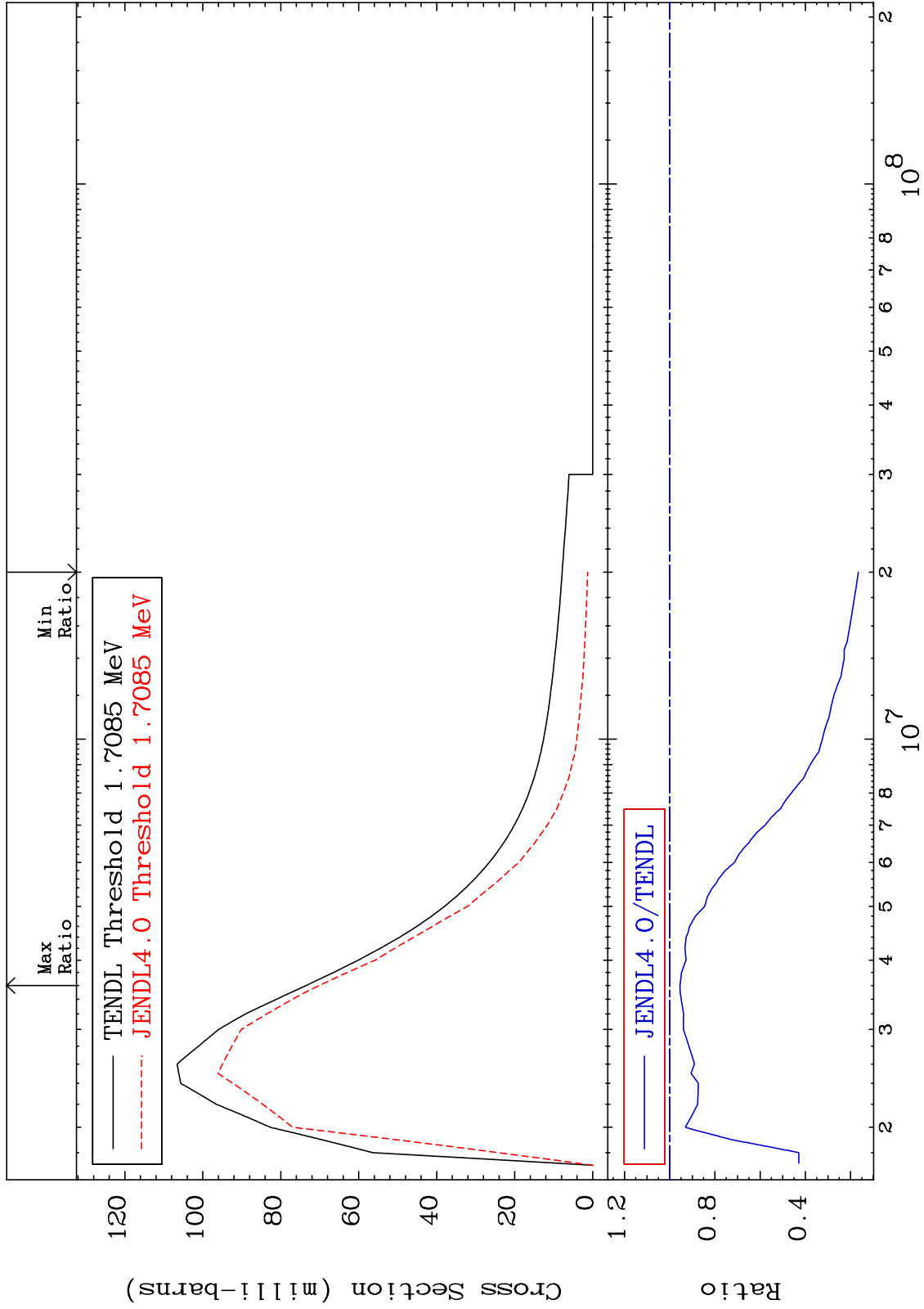
MAT 2828 MT= 56 (n,n') Level Cross Section -85.21 To 4.557 % 28-Ni-59



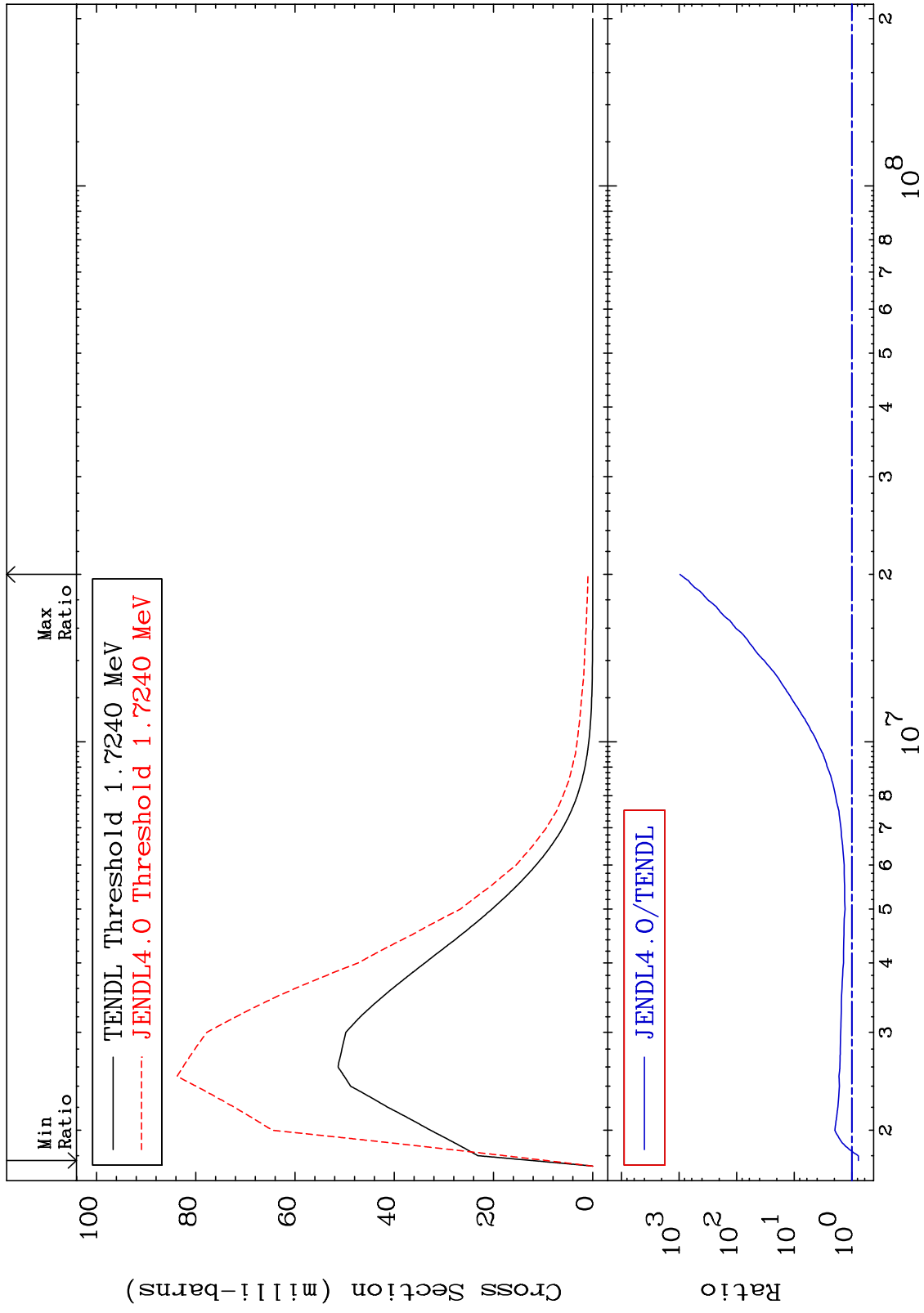
MAT 2828

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

28-Ni-59
-83.46 To -4.574%



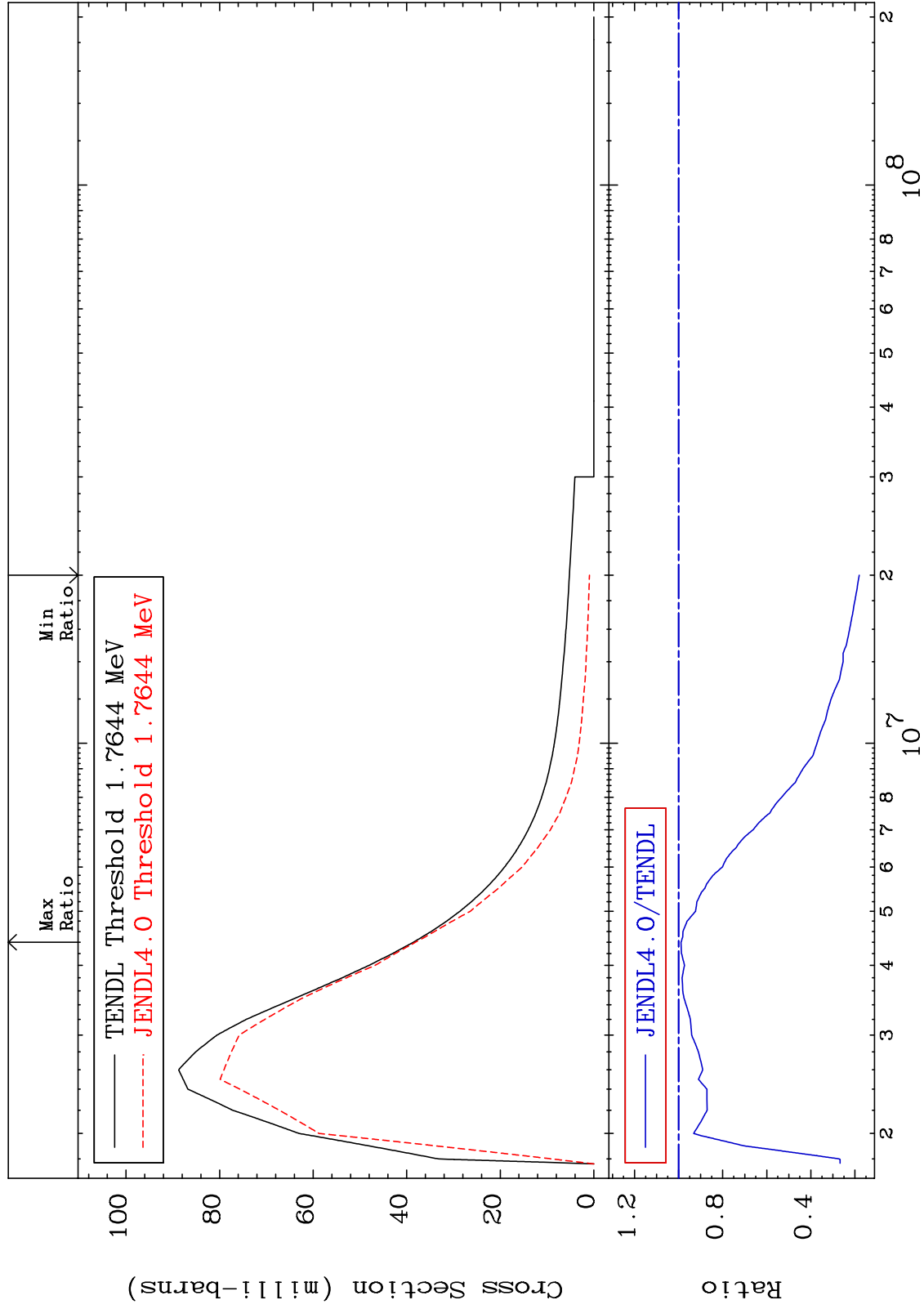
MAT 2828 MT= 58 (n,n') Level Cross Section -23.20 To 9999. % 28-Ni-59



MAT 2828

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

28-Ni-59
-81.98 To -1.096%



16

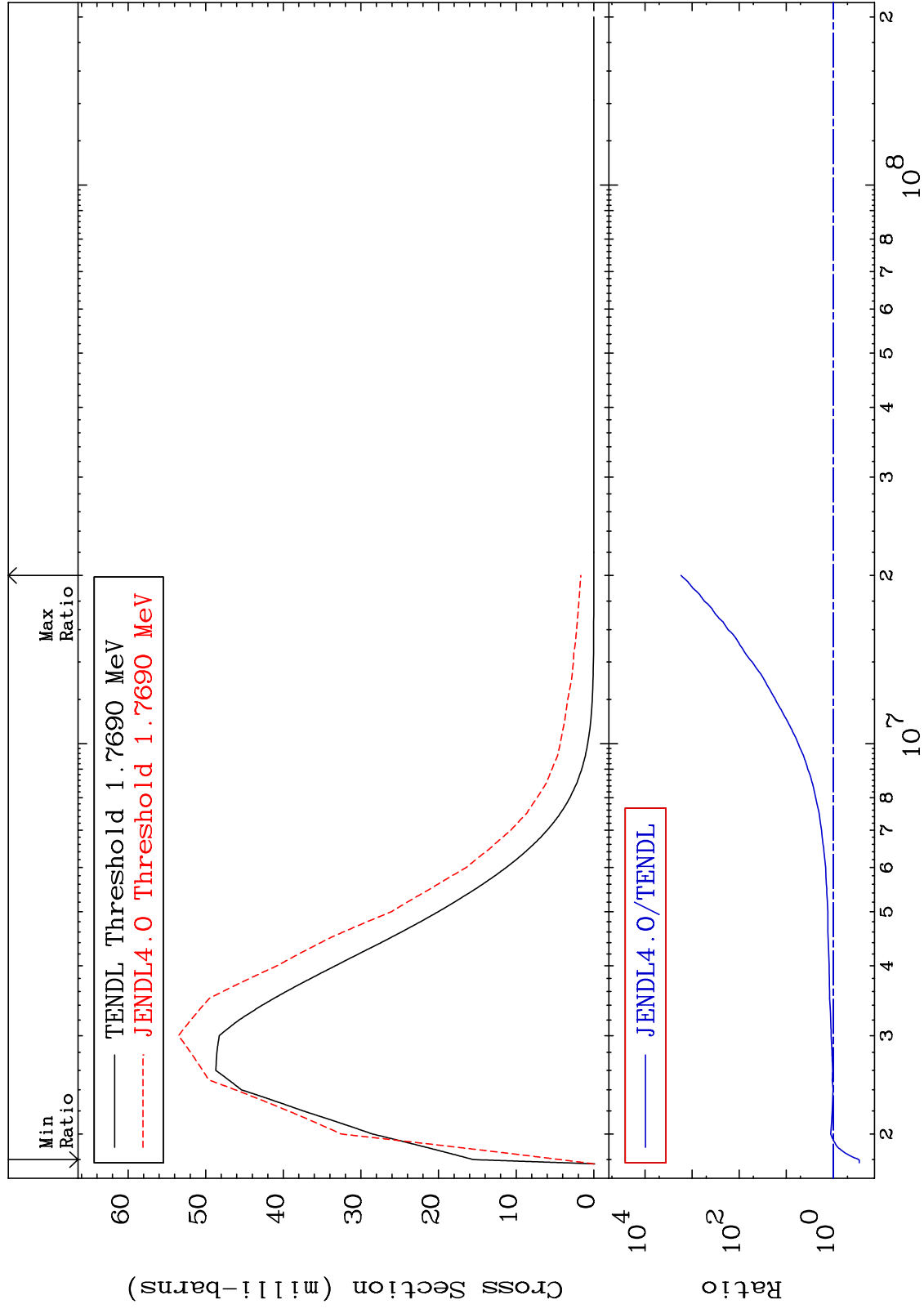
Incident Energy (eV)

28-Ni-59

MAT 2828

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

28-Ni-59
-71.87 To 9999. %



17

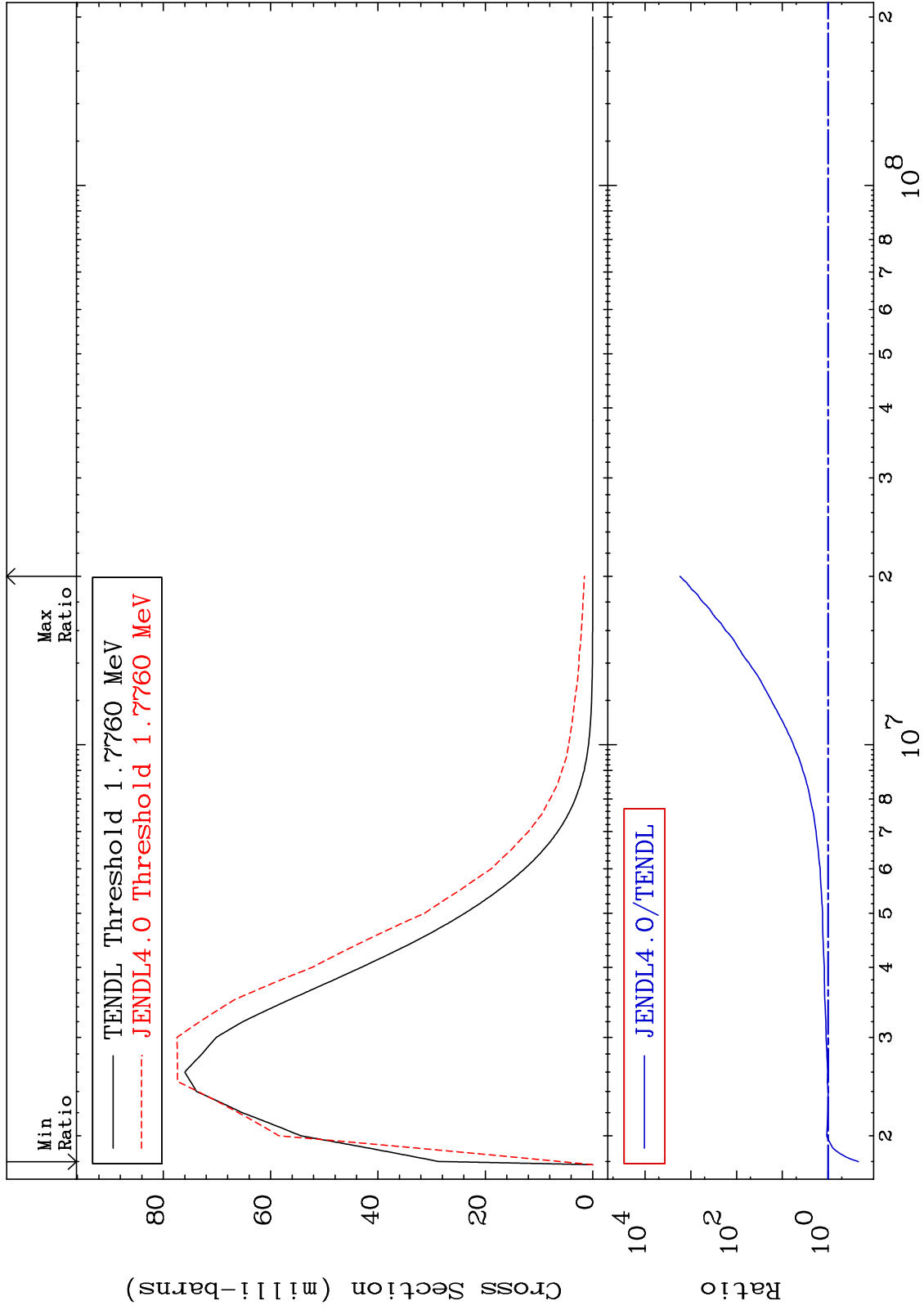
Incident Energy (eV)

28-Ni-59

MAT 2828

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

28-Ni-59
-78.23 To 9999. %

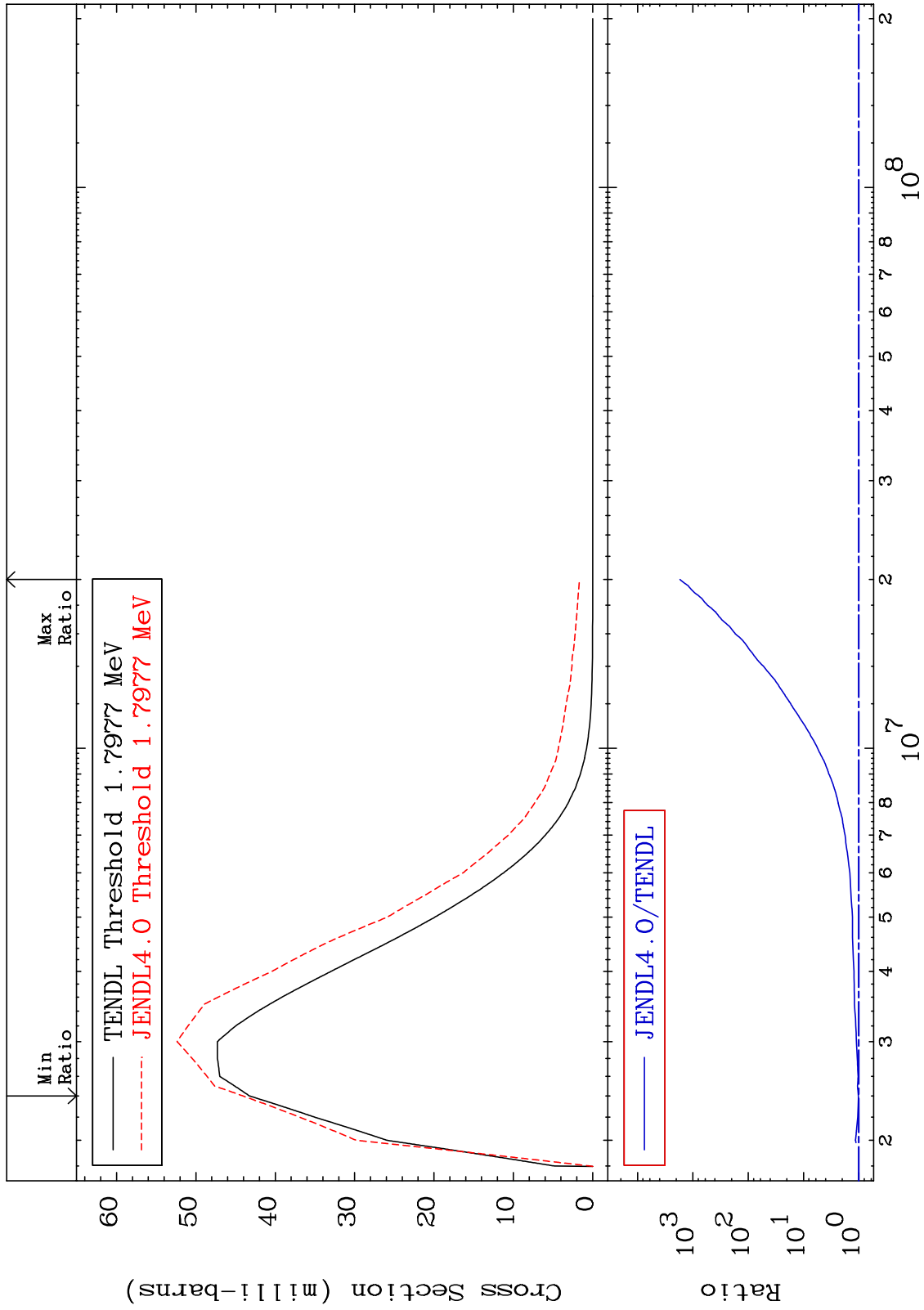


18

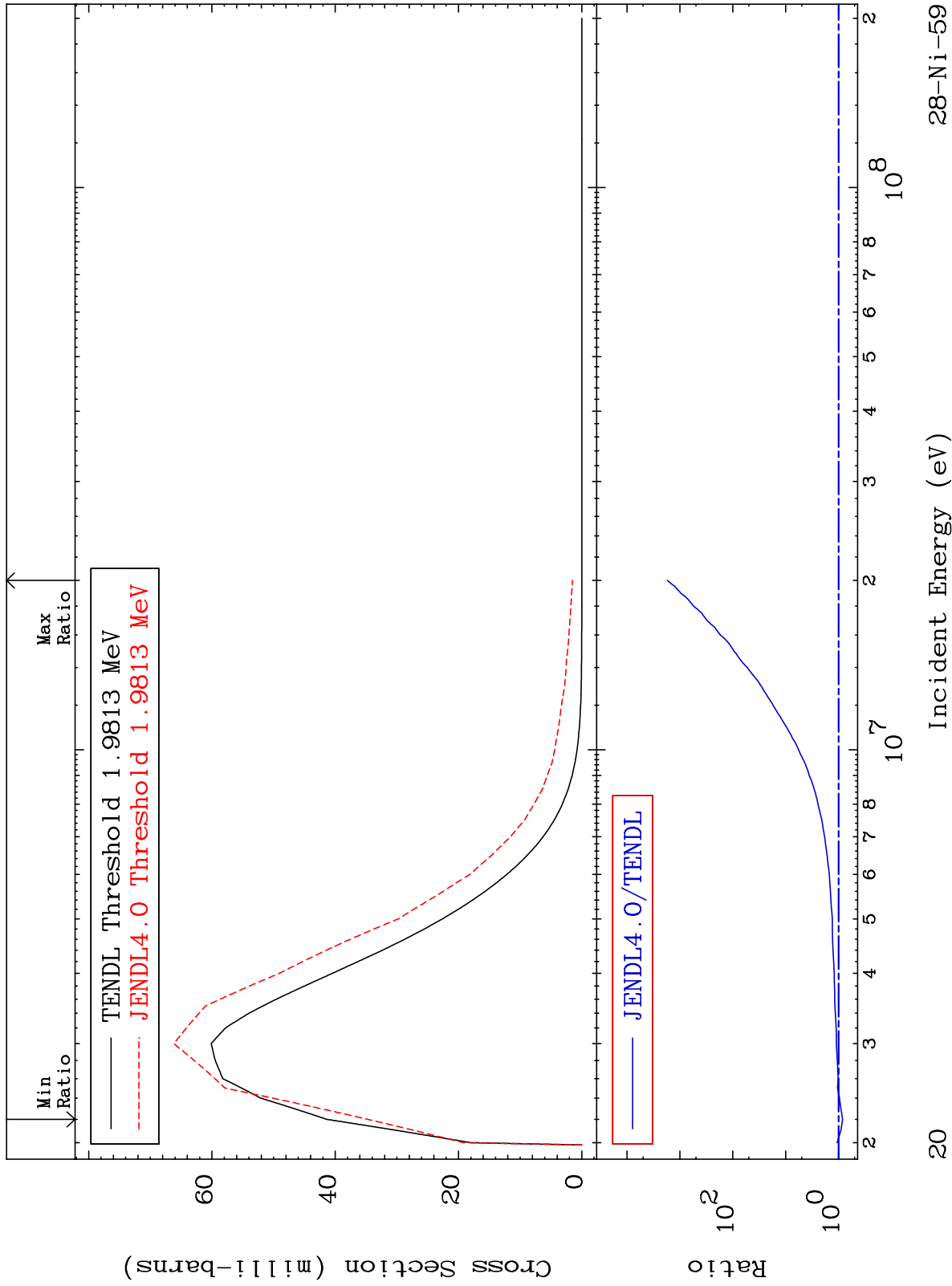
Incident Energy (eV)

28-Ni-59

MAT 2828 MT= 62 (n,n') Level Cross Section 28-Ni-59 To 9999. %
 1.901



MAT 2828 MT= 63 (n,n') Level Cross Section 28-Ni-59
-16.10 To 9999. %

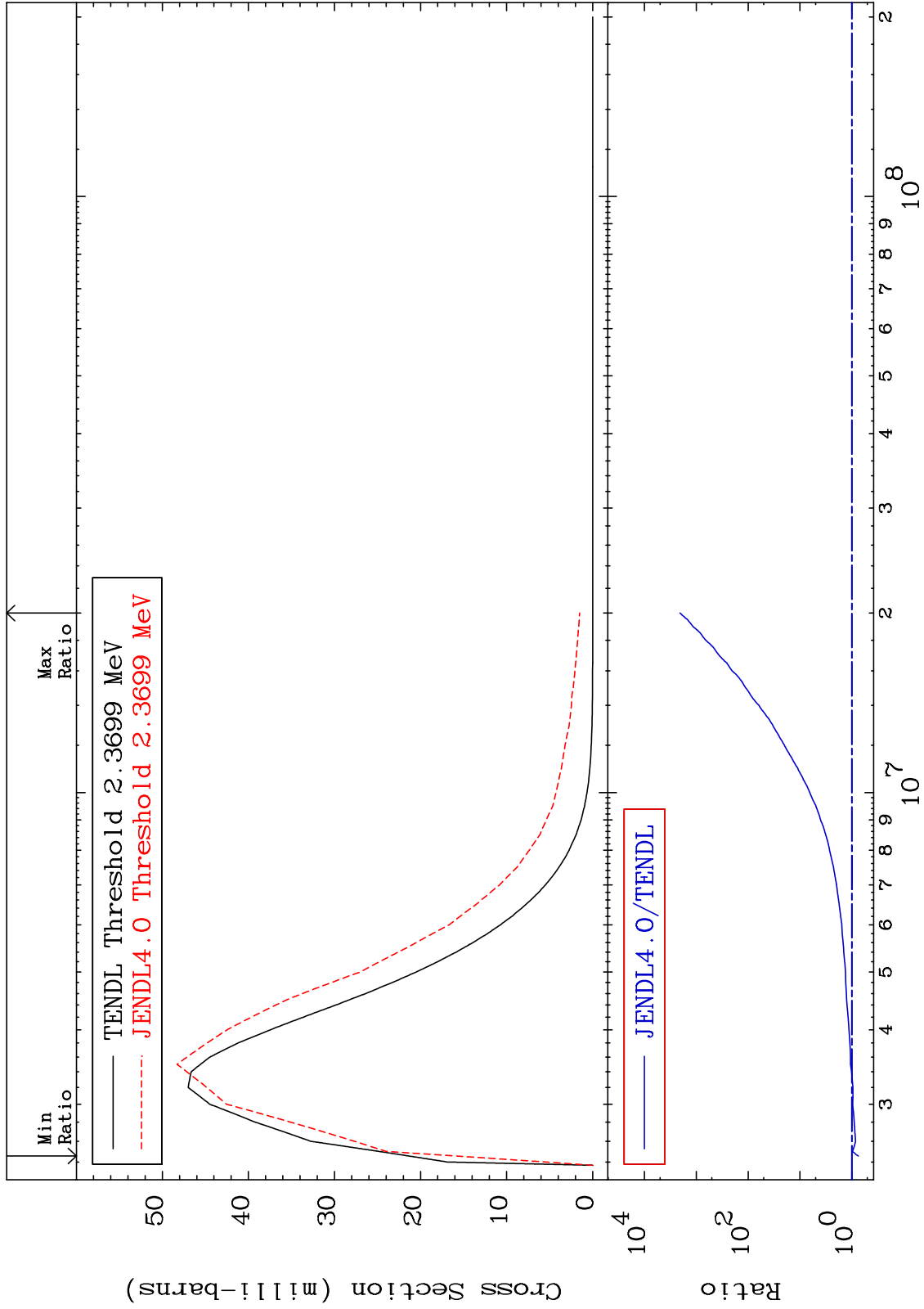


28-Ni-59

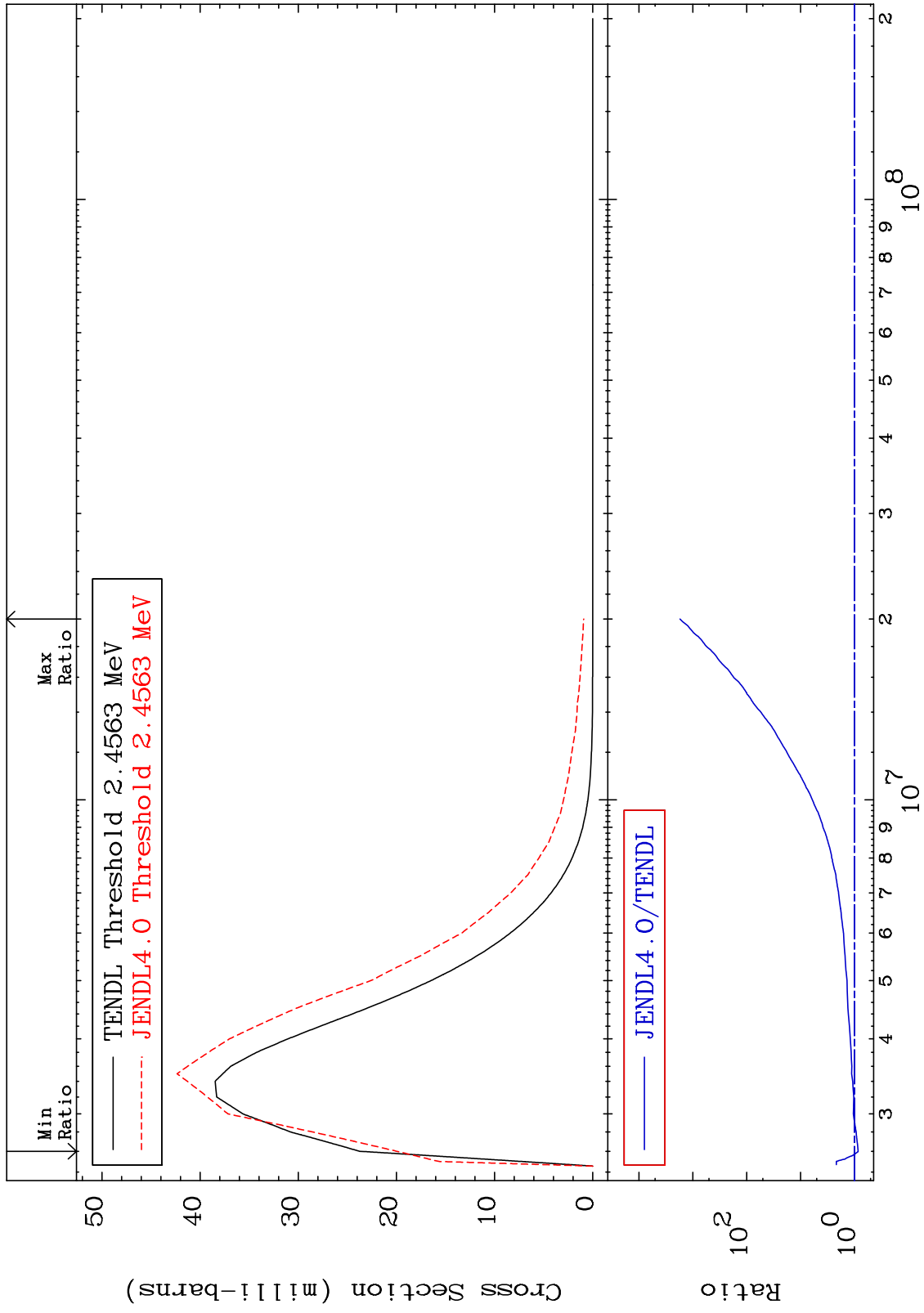
MAT 2828

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

28-Ni-59
-25.46 To 9999. %



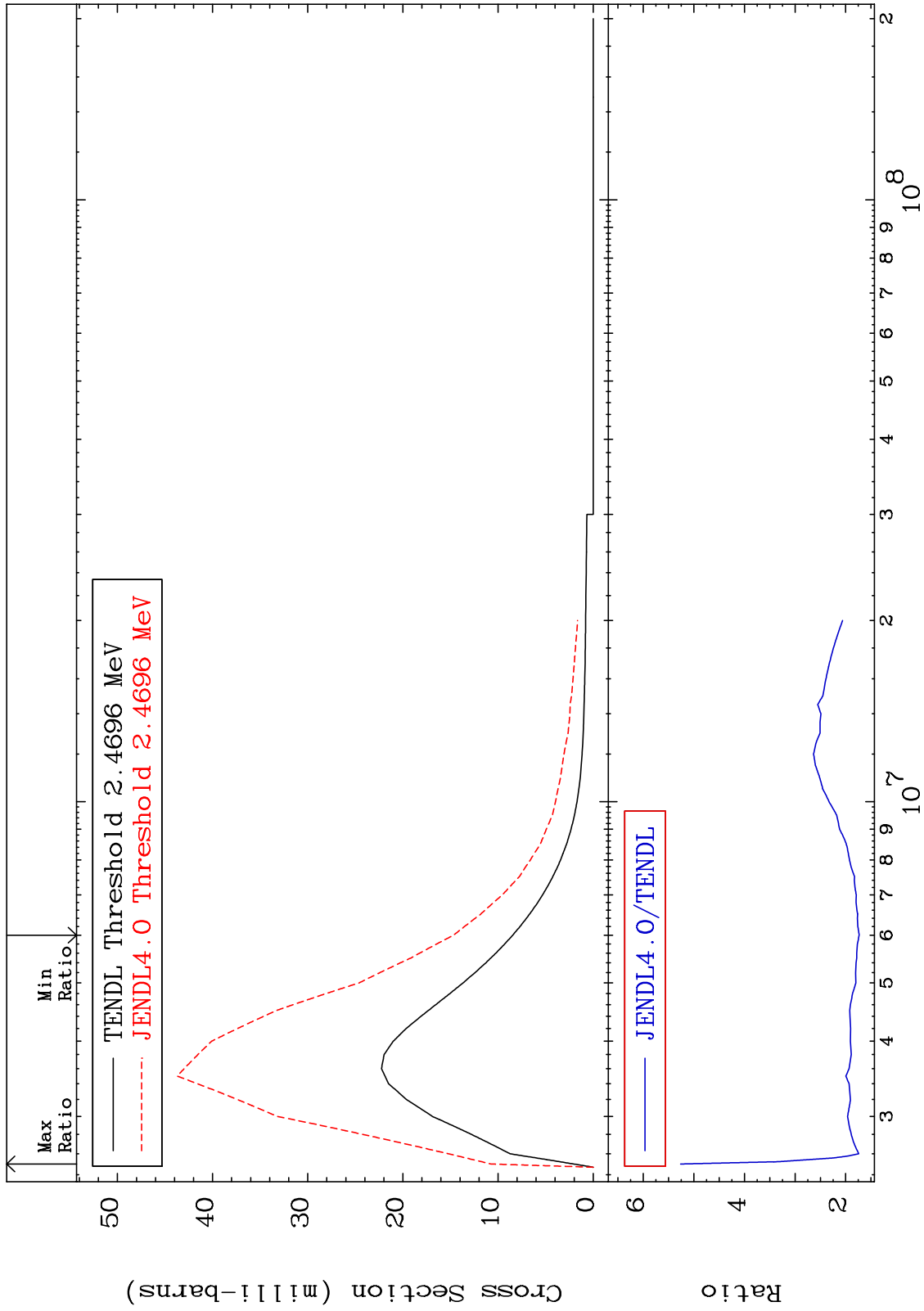
MAT 2828 MT= 65 (n,n') Level Cross Section -15.95 To 9999. % 28-Ni-59



MAT 2828

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

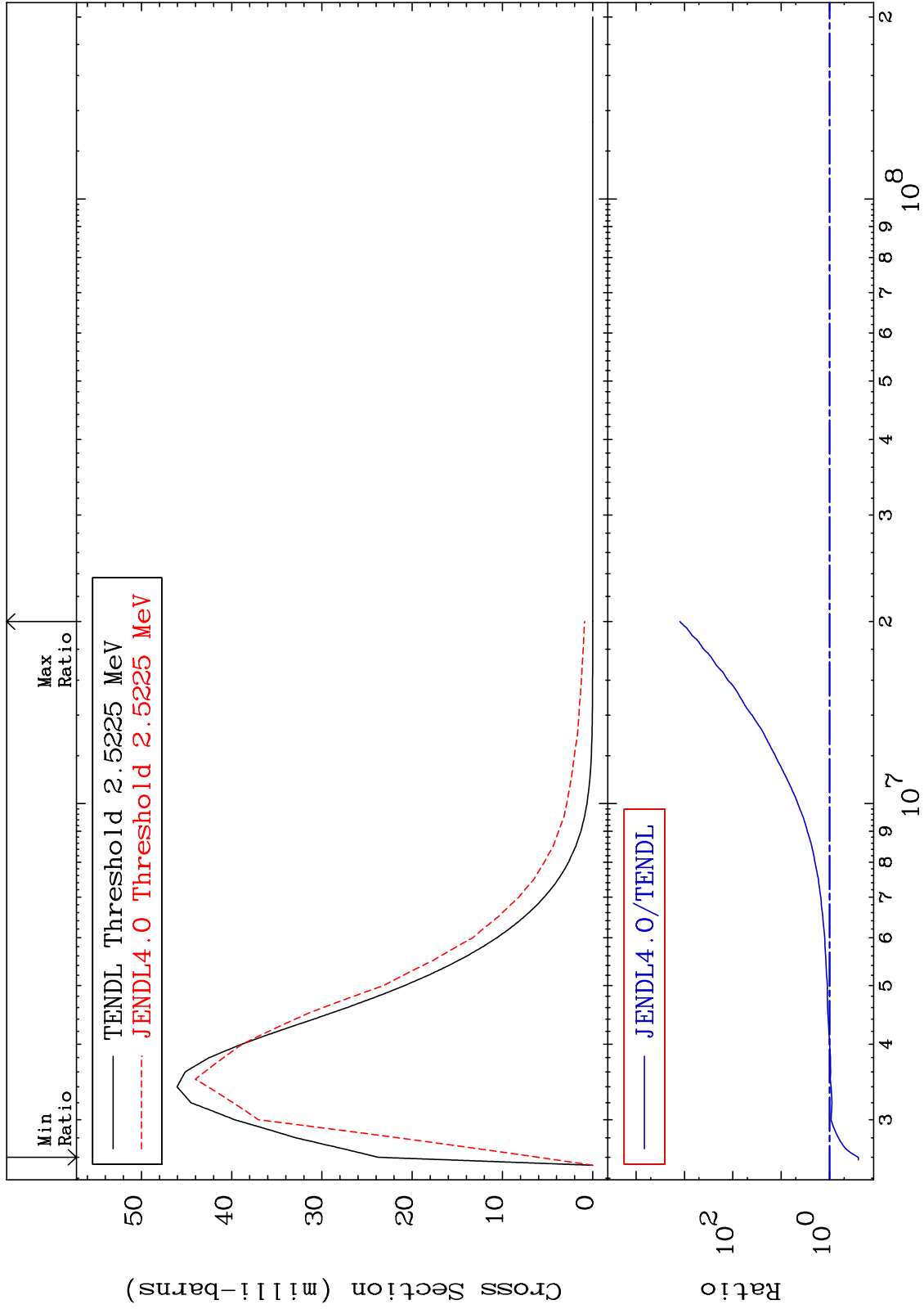
28-Ni-59
73.36 To 426.2 %



MAT 2828

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

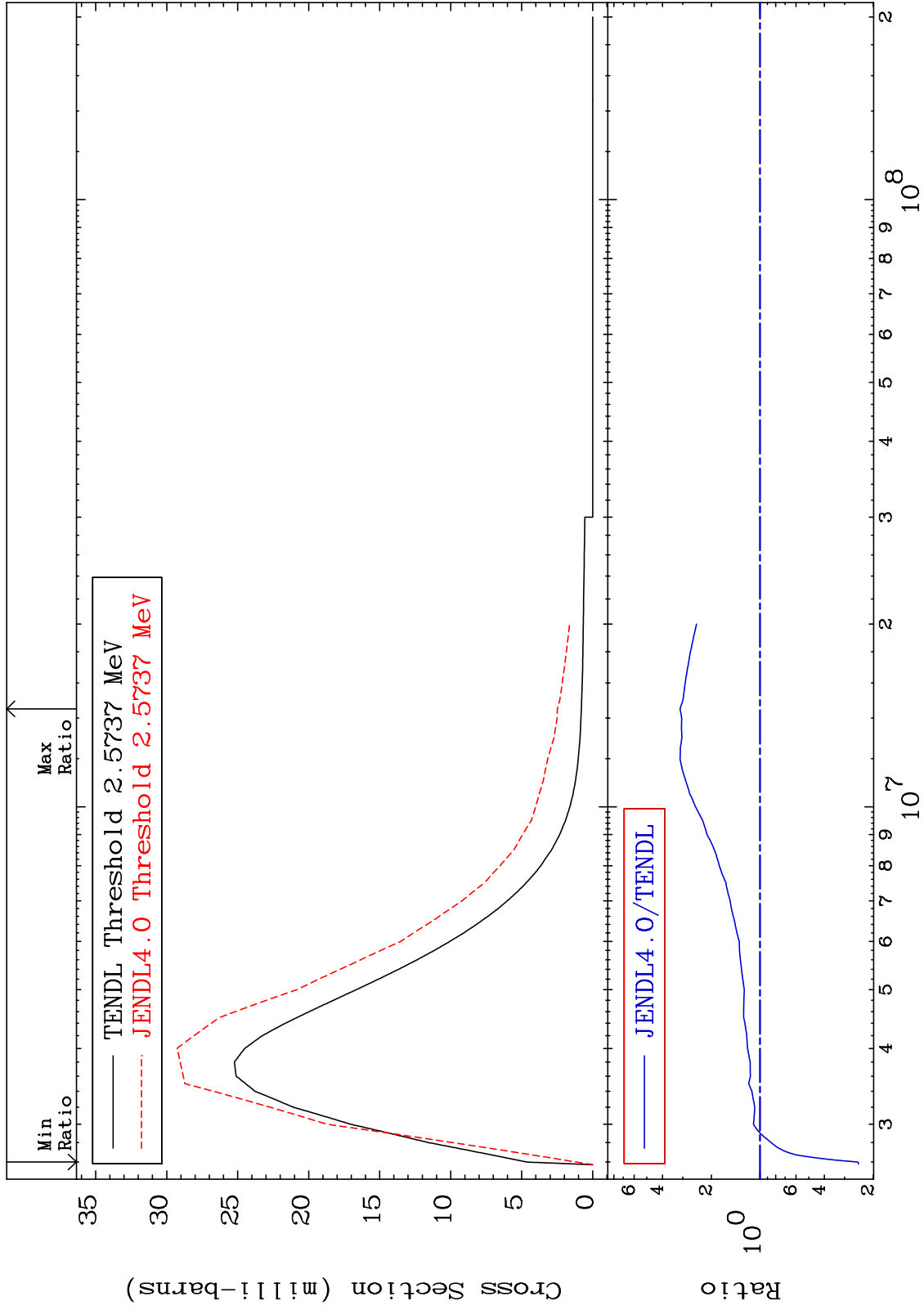
28-Ni-59
-74.66 To 9999. %



MAT 2828

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

28-Ni-59
-75.33 To 212.1 %



25

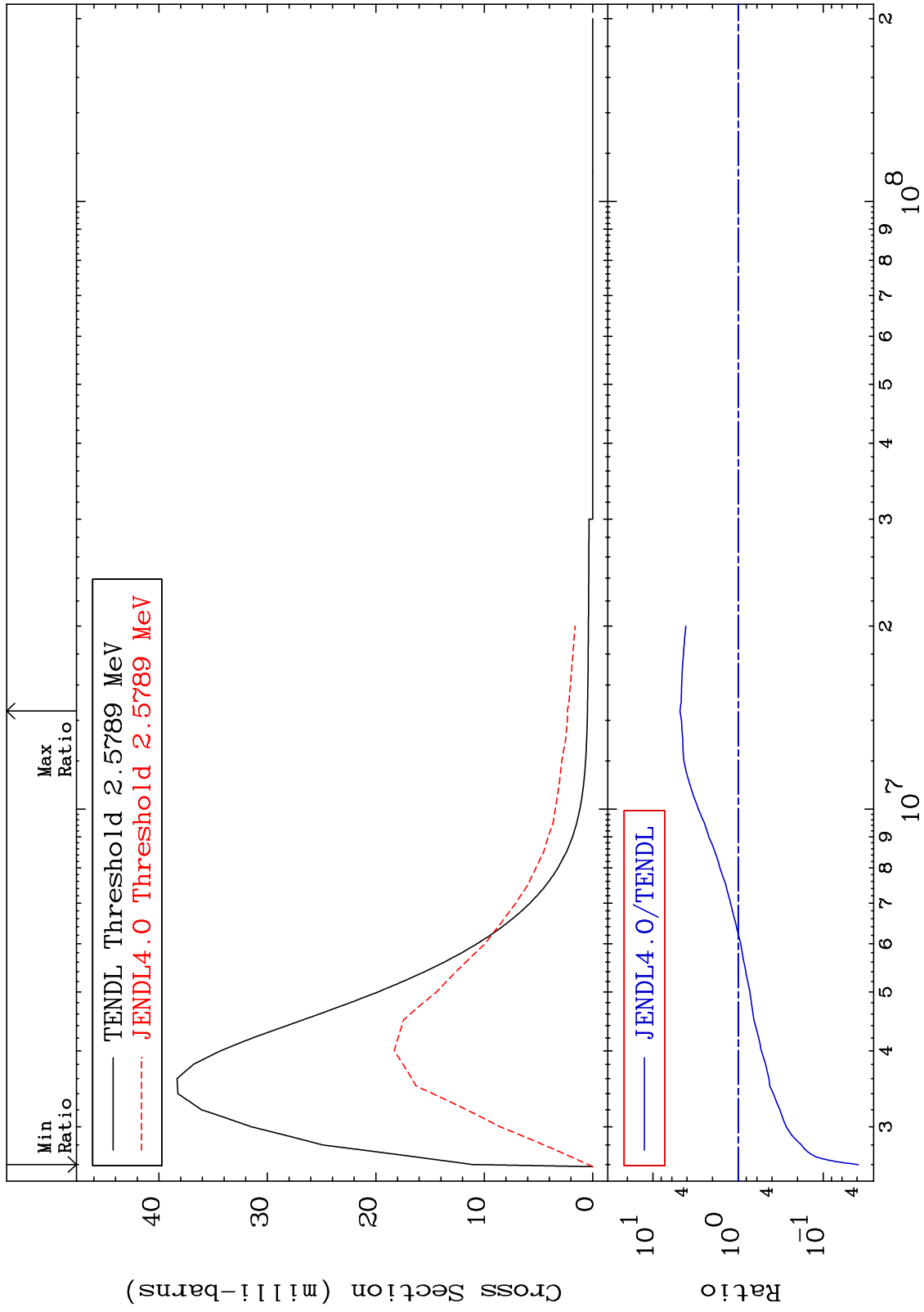
28-Ni-59

28-Ni-59

MAT 2828

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

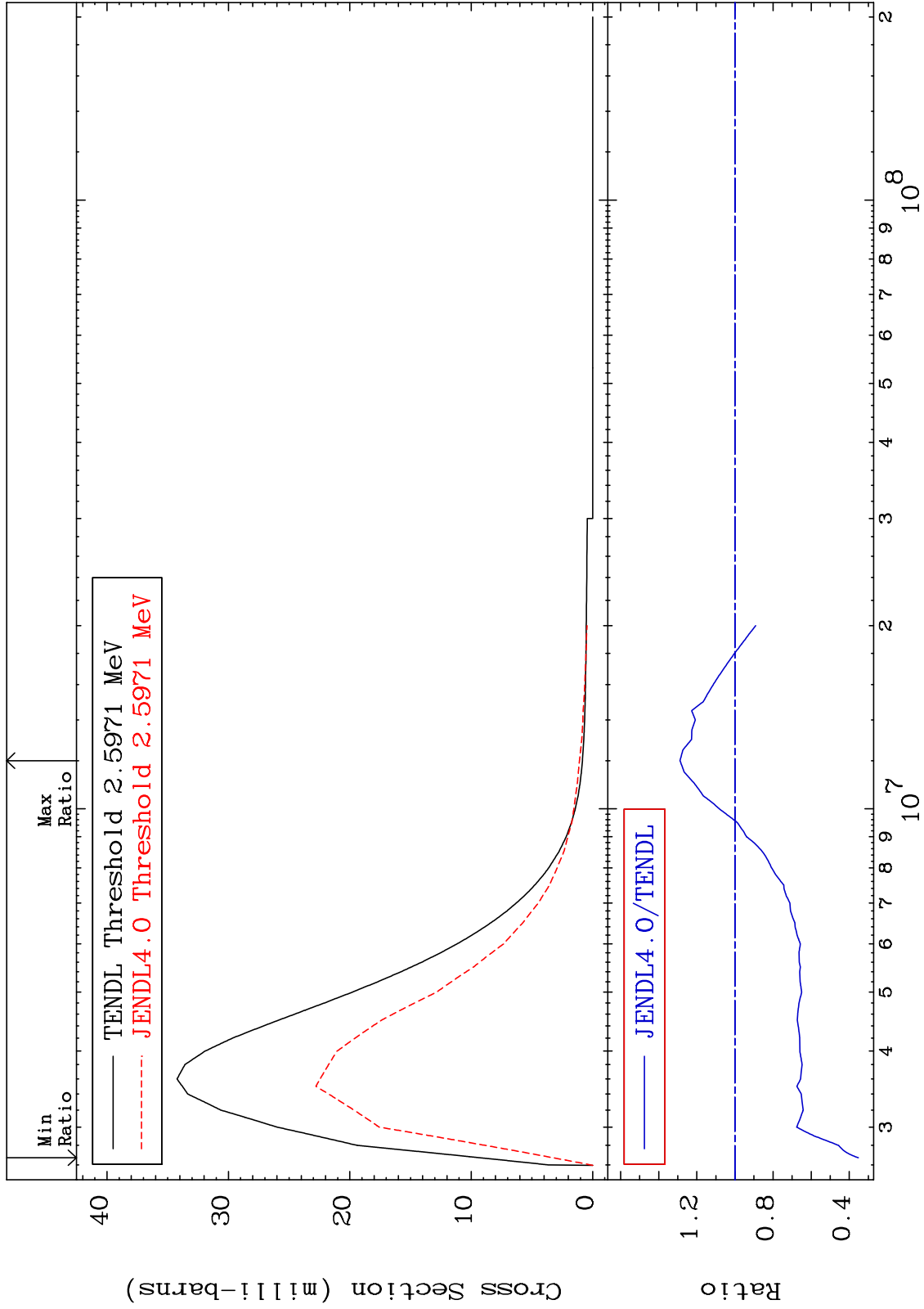
28-Ni-59
-96.14 To 381.5 %



MAT 2828

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

28-Ni-59
-64.80 To 28.82 %

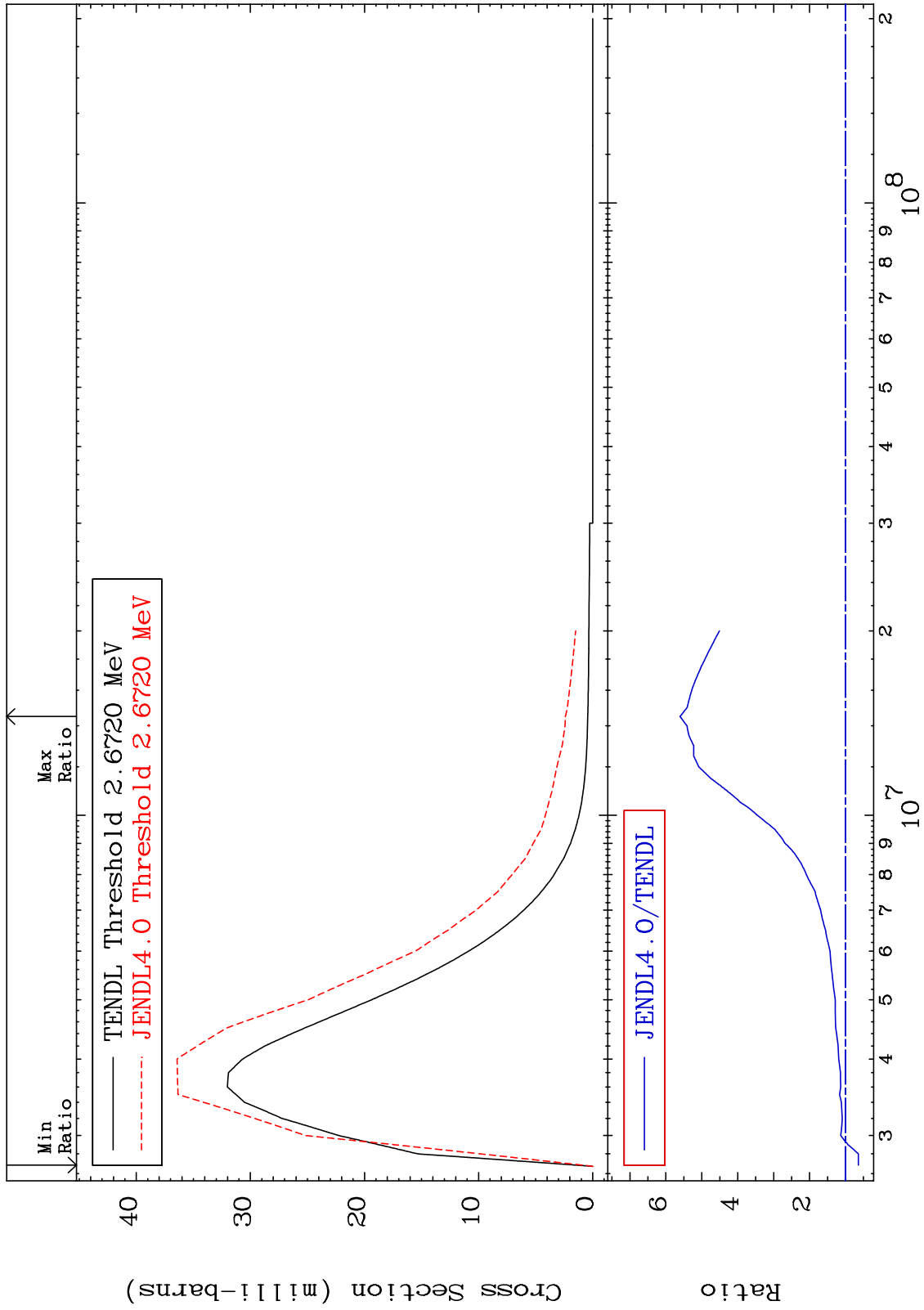


27

Incident Energy (eV)

28-Ni-59

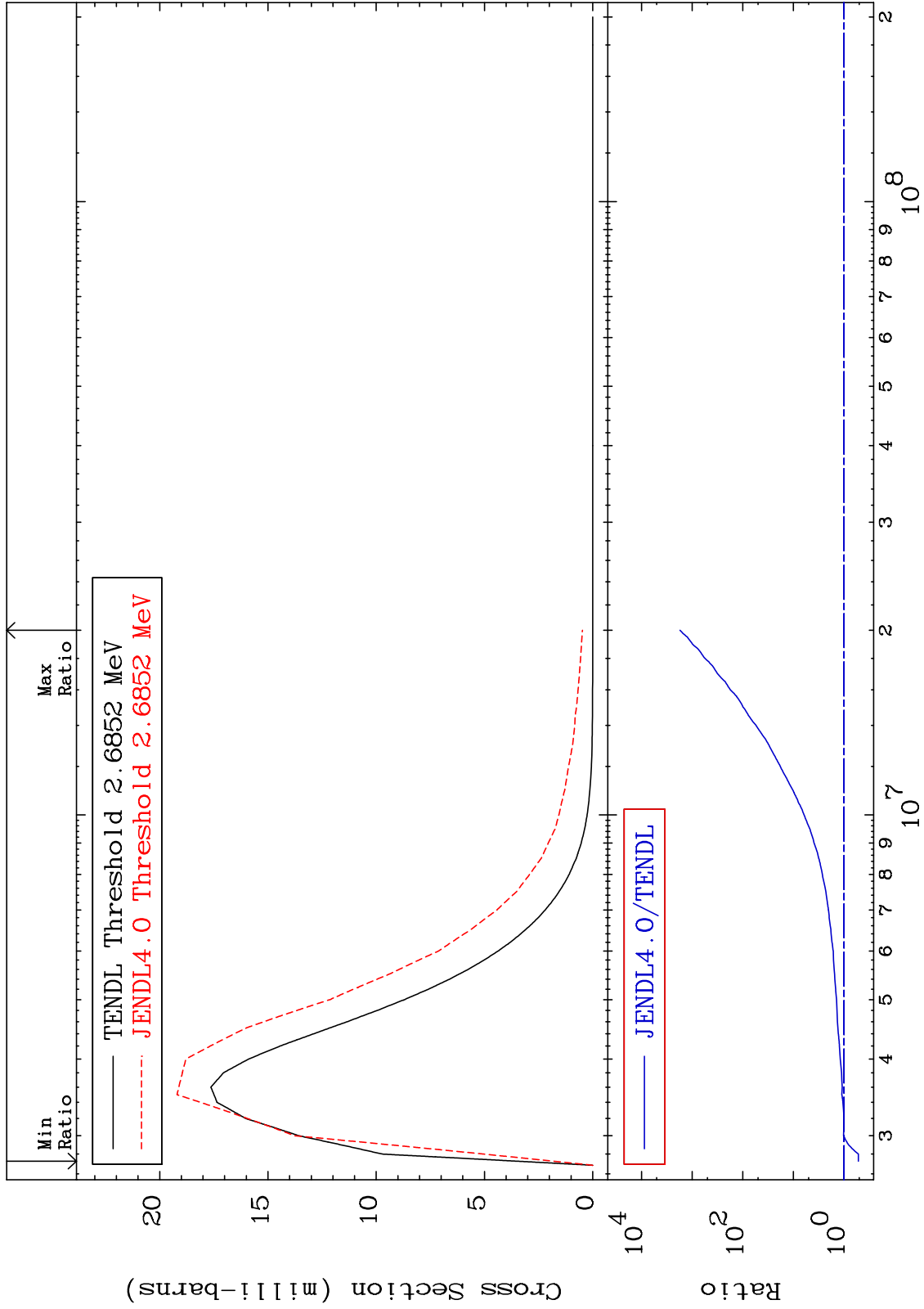
MAT 2828 MT= 71 (n,n') Level Cross Section 28-Ni-59 -35.93 To 460.6 %



MAT 2828

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

28-Ni-59
-48.30 To 9999. %



29

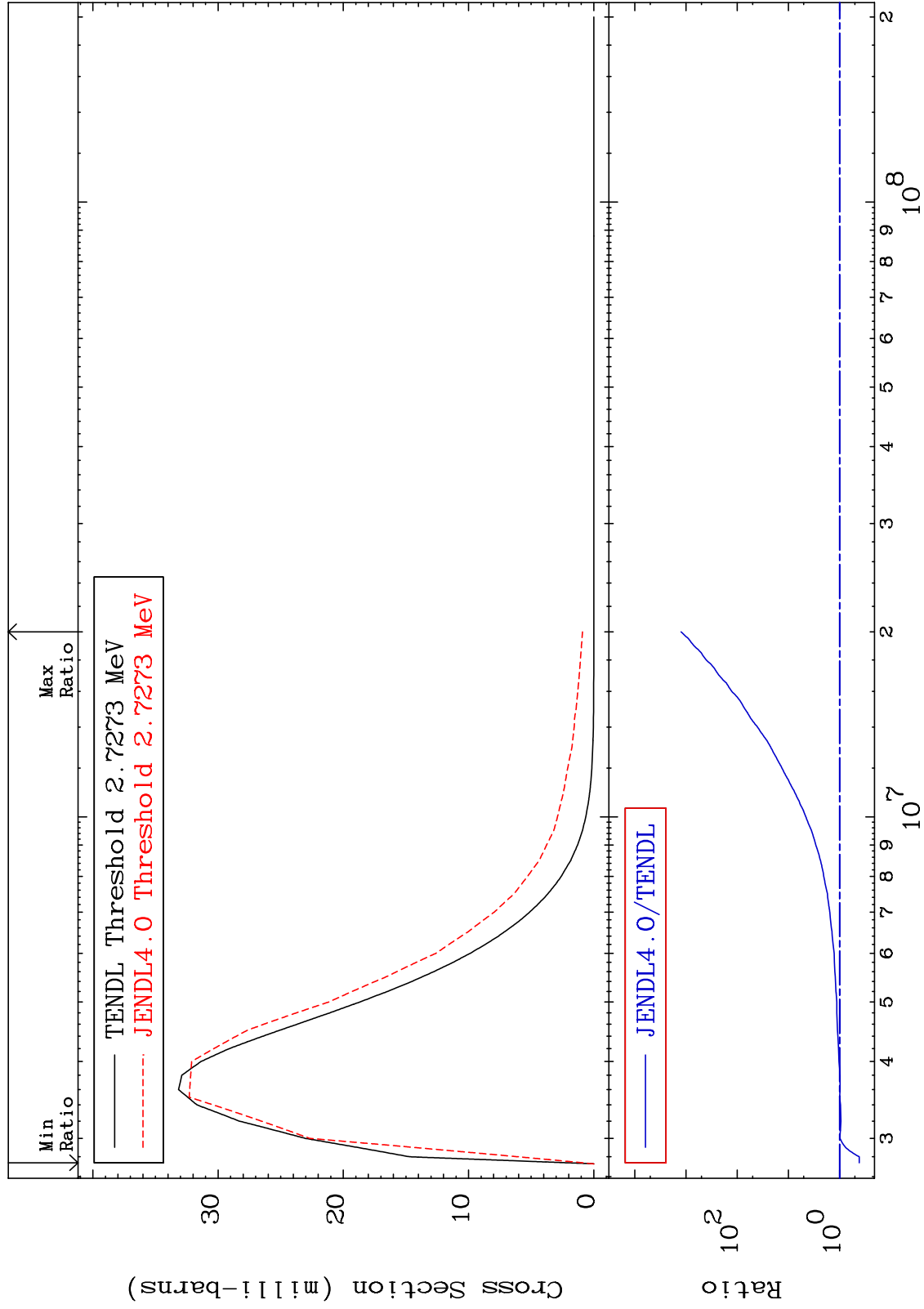
Incident Energy (eV)

28-Ni-59

MAT 2828

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

28-Ni-59
-58.88 To 9999. %

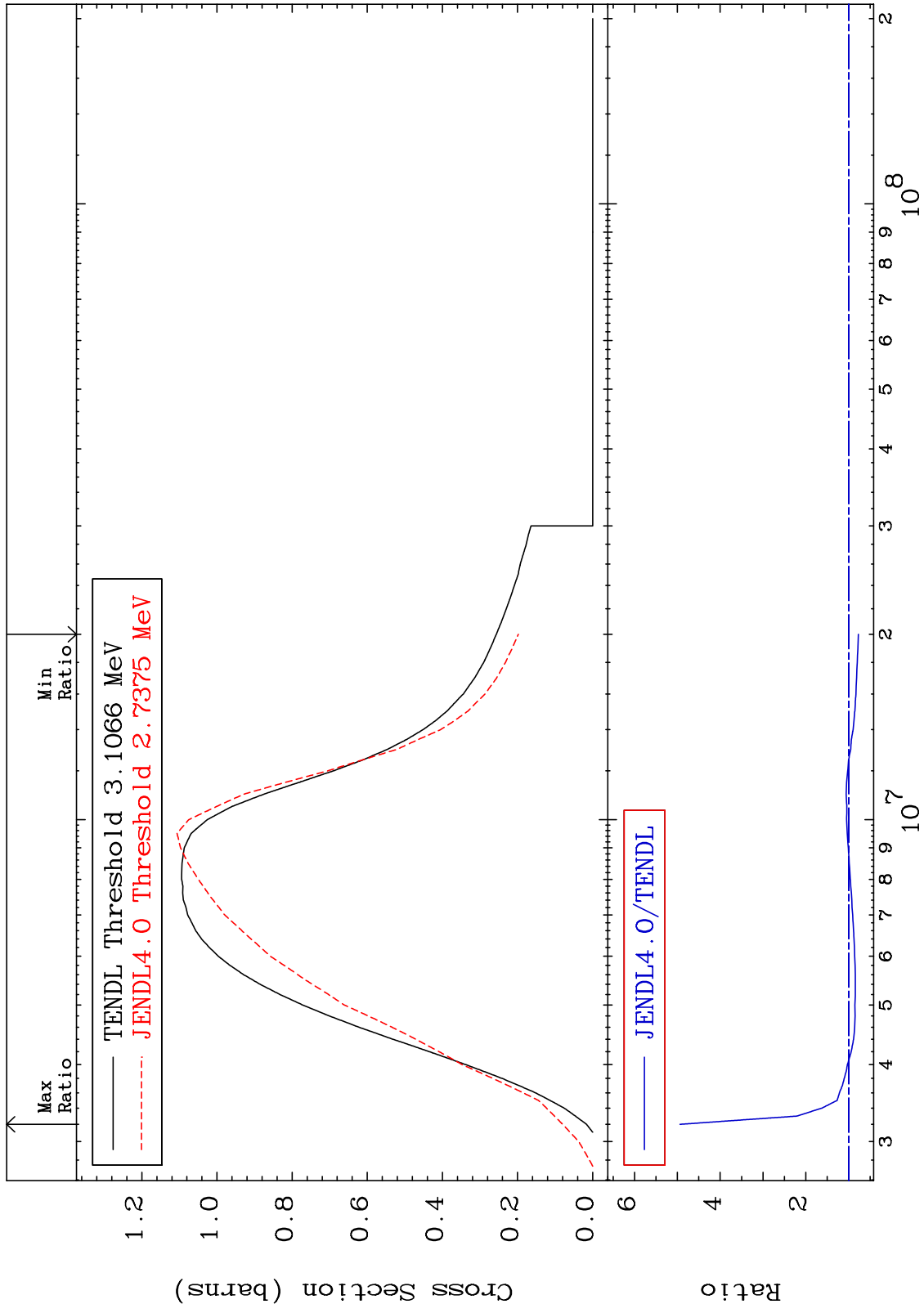


30

Incident Energy (eV)

28-Ni-59

MAT 2828 (n, n') Continuum Cross Section 28-Ni-59 -22.75 To 393.8 %



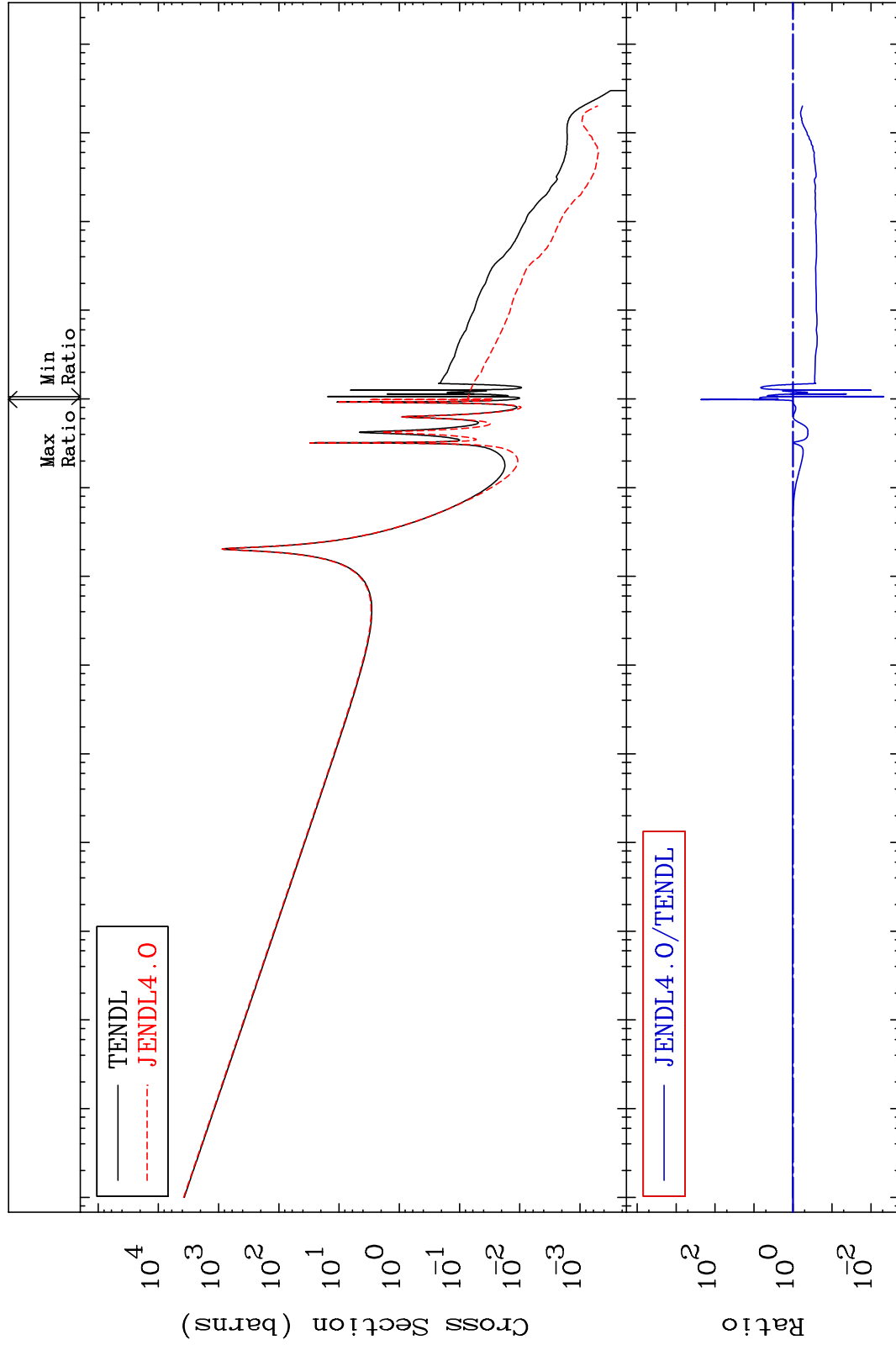
MAT 2828

(n, γ)

28-Ni-59

Cross Section

-99.54 To 9999. %



32

Incident Energy (eV)

28-Ni-59

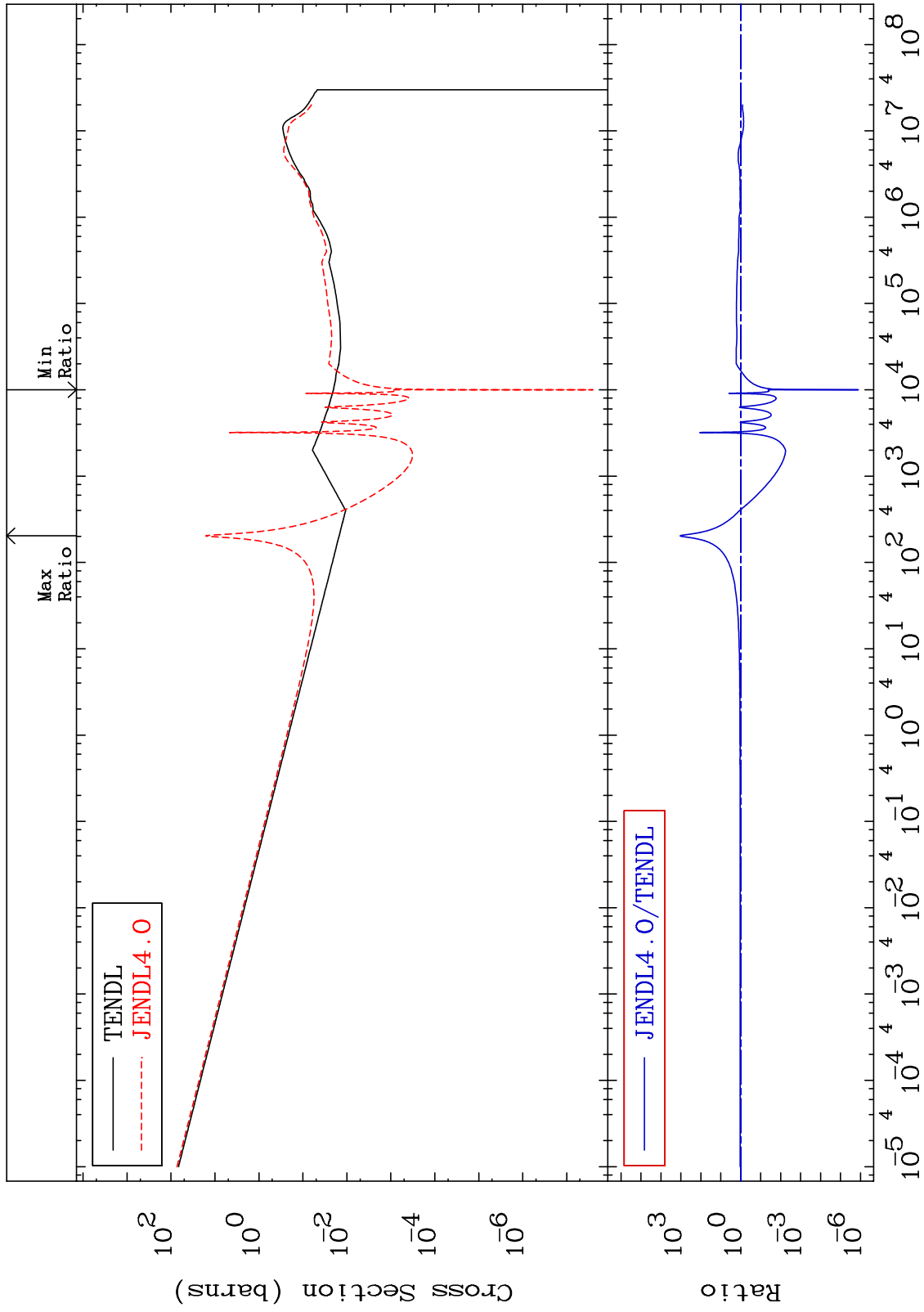
MAT 2828

(n,p)

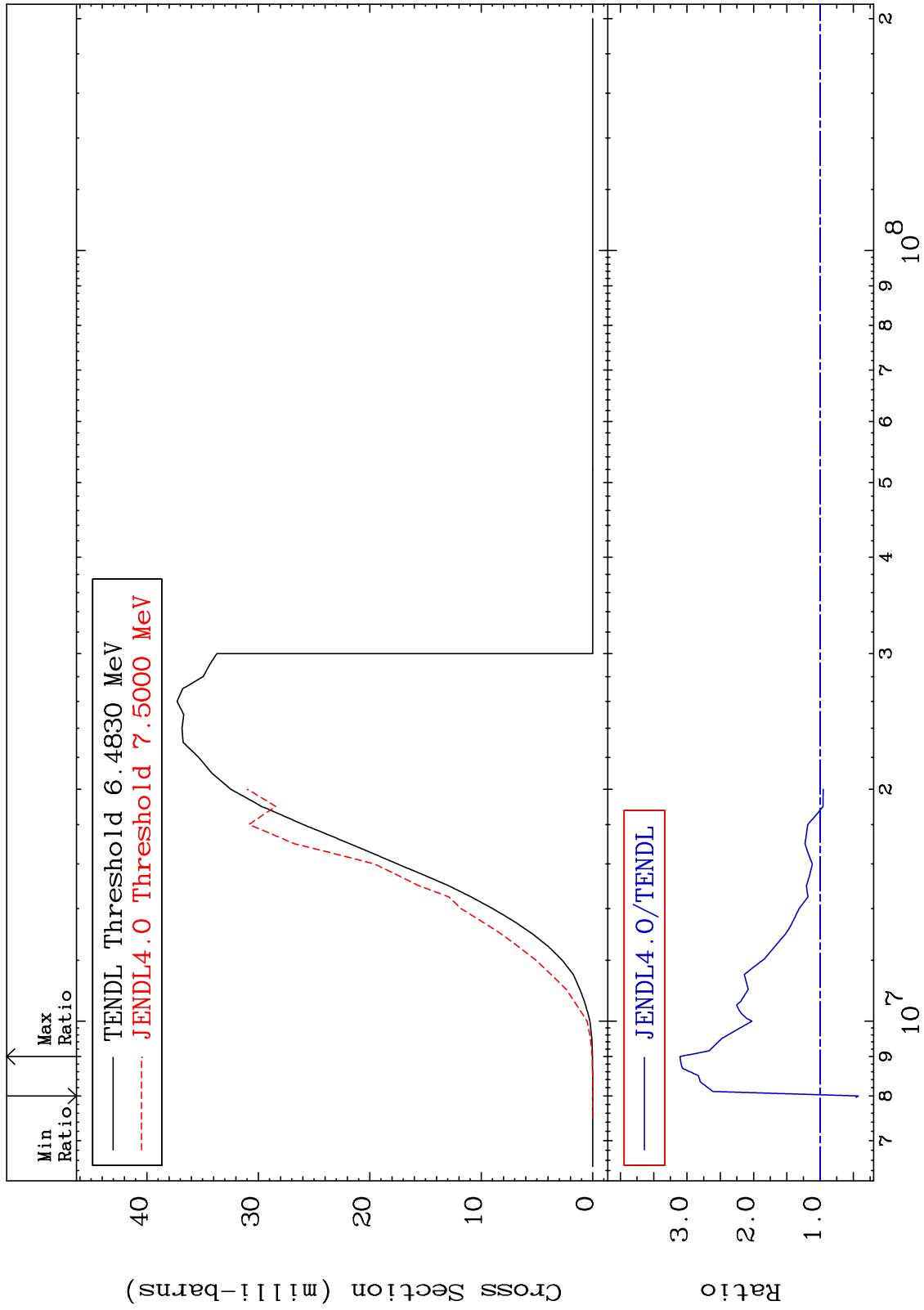
28-Ni-59

Cross Section

-100.0 To 9999. %



MAT 2828 (n,d) 28-Ni-59
 Cross Section -57.48 To 210.5 %



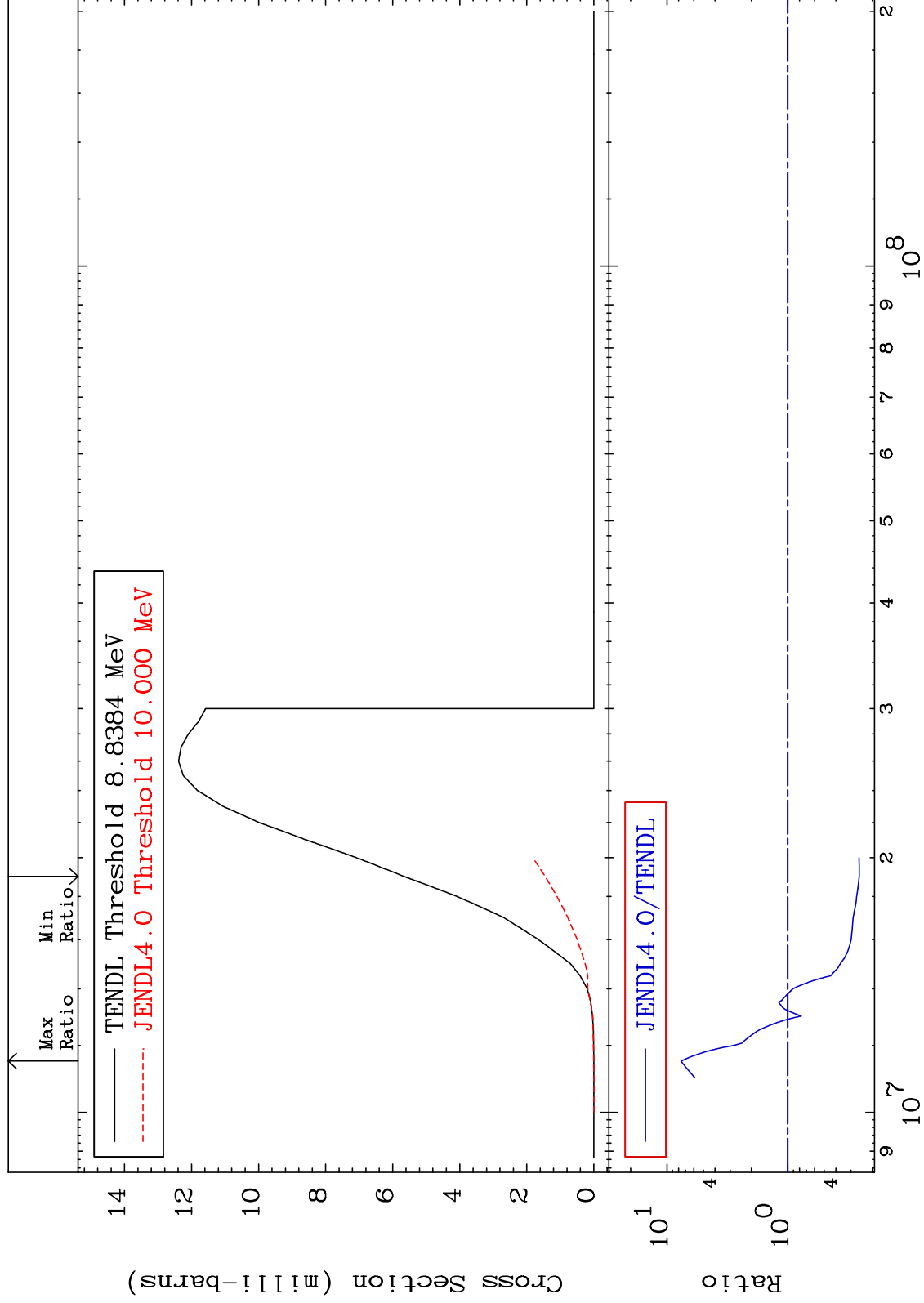
MAT 2828

(n, t)

28-Ni-59

Cross Section

-74.35 To 664.3 %



35

Incident Energy (eV)

28-Ni-59

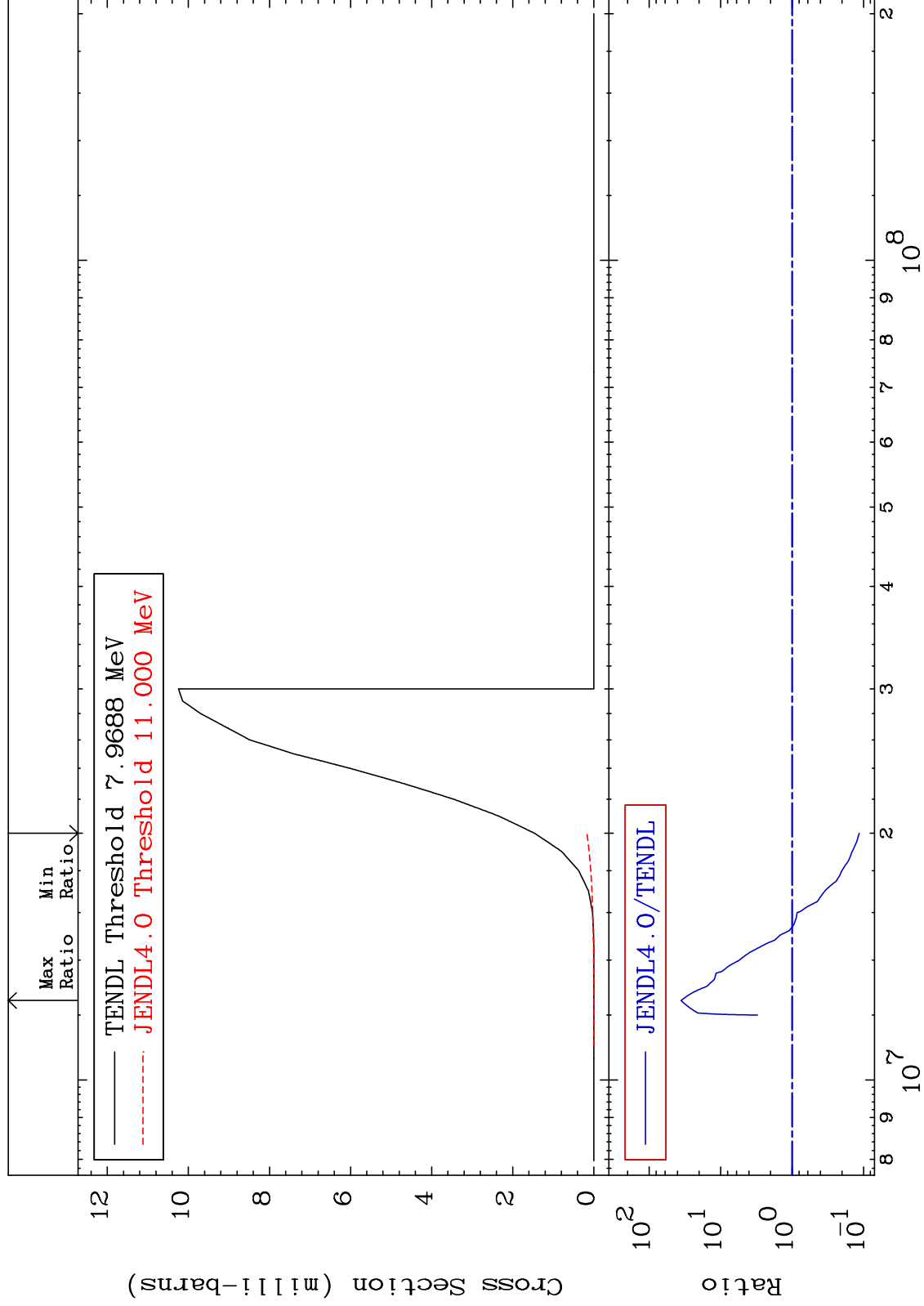
MAT 2828

(n, He-3)

28-Ni-59

Cross Section

-88.54 To 3479. %



36

Incident Energy (eV)

28-Ni-59

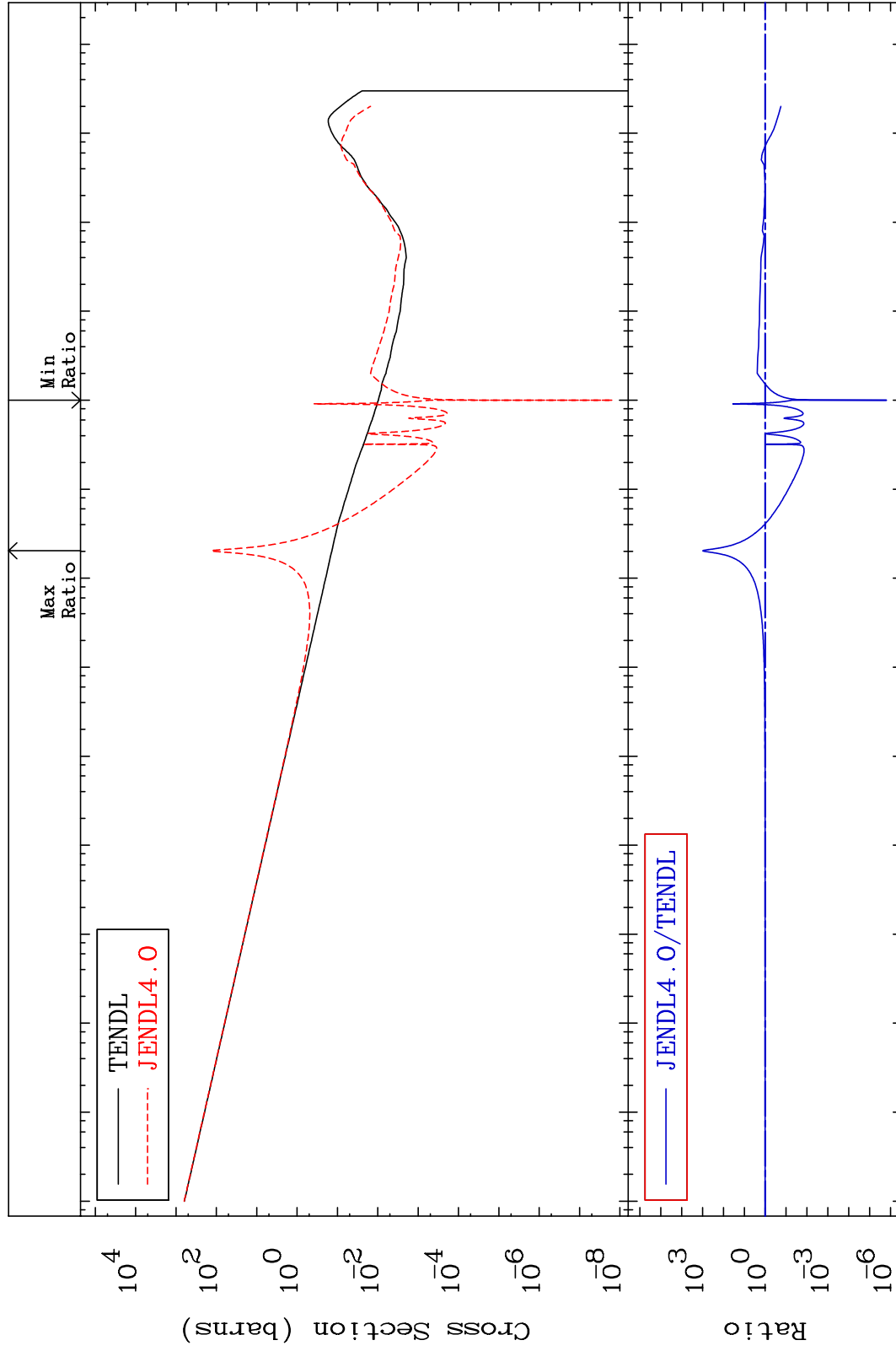
MAT 2828

(n, α)

28-Ni-59

Cross Section

-100.0 To 9999. %



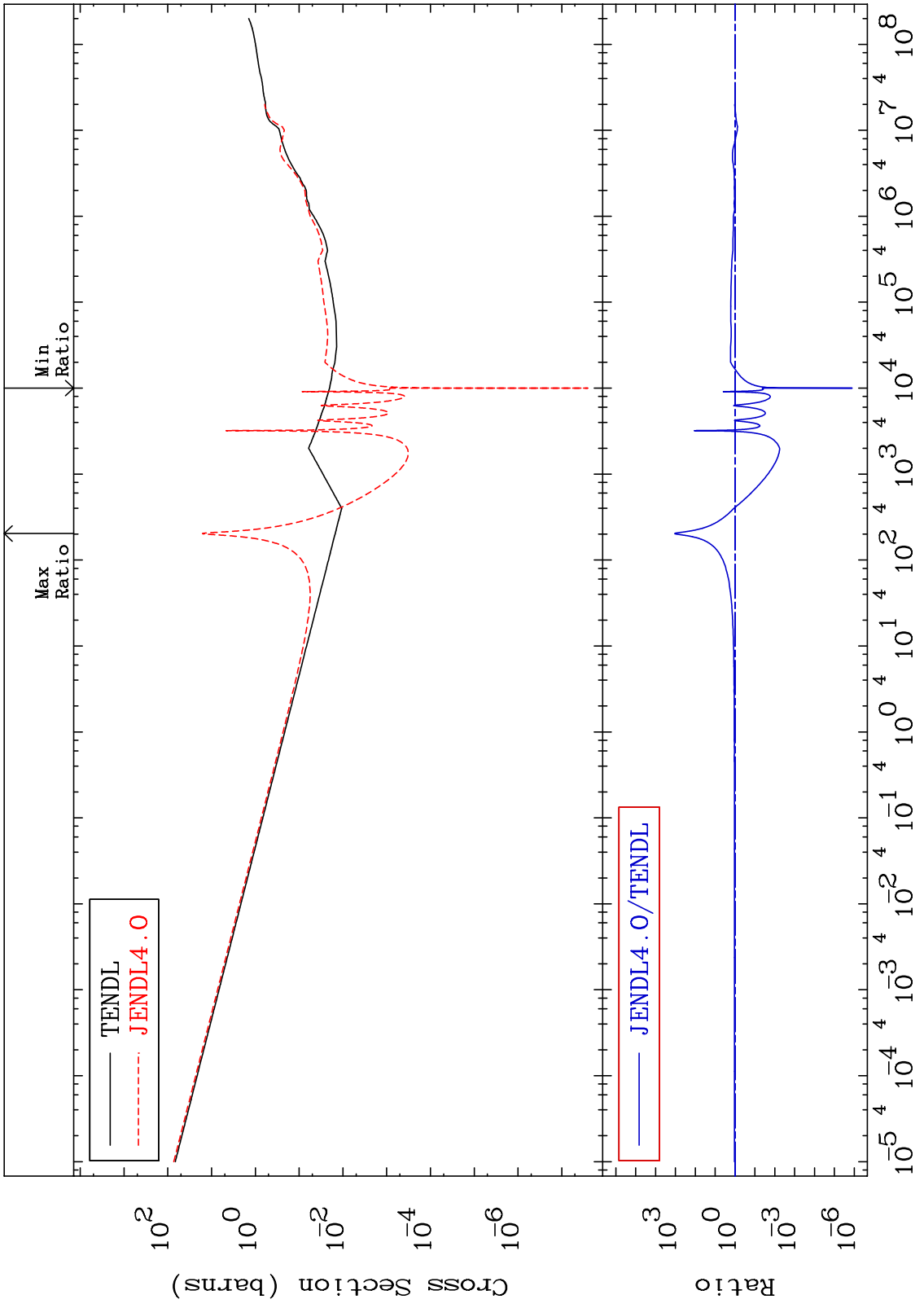
— TENDL
- - - JENDL4.0

— JENDL4.0/TENDL

MAT 2828

Hydrogen Production
Cross Section

28-Ni-59
-100.0 To 9999. %



38

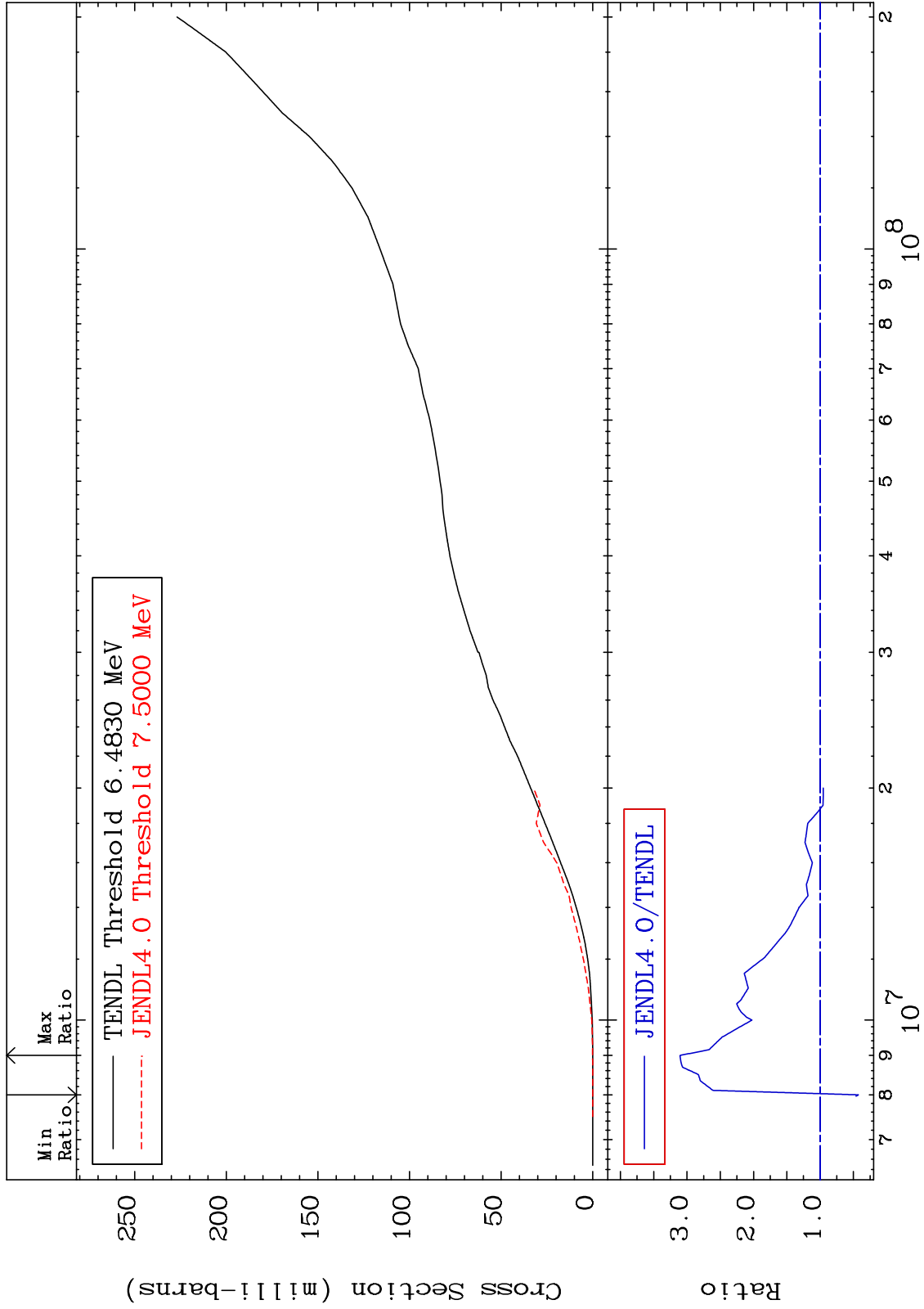
Incident Energy (eV)

28-Ni-59

MAT 2828

Deuterium Production
Cross Section

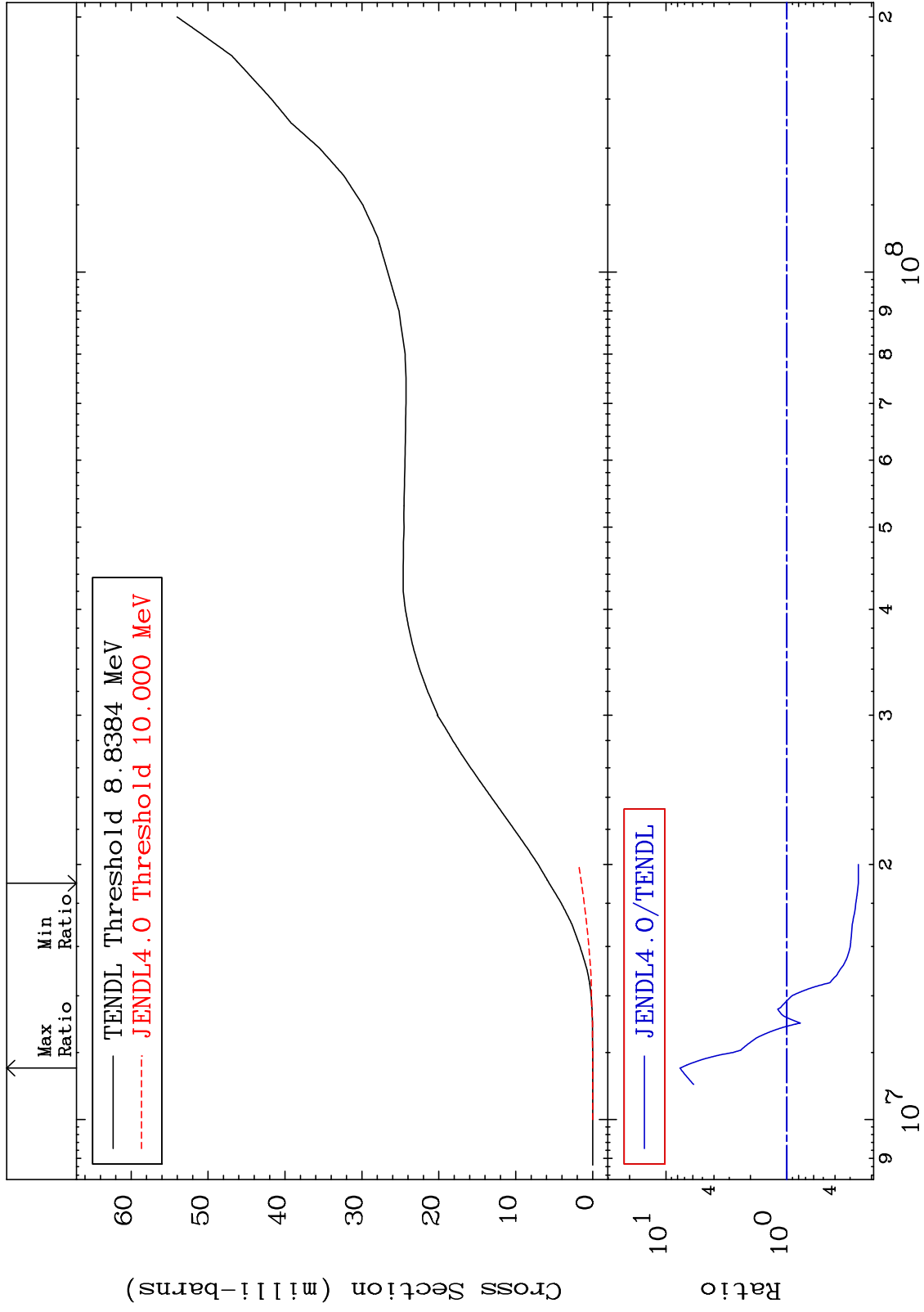
28-Ni-59
-57.48 To 210.5 %



MAT 2828

Tritium Production
Cross Section

28-Ni-59
-74.36 To 664.3 %



40

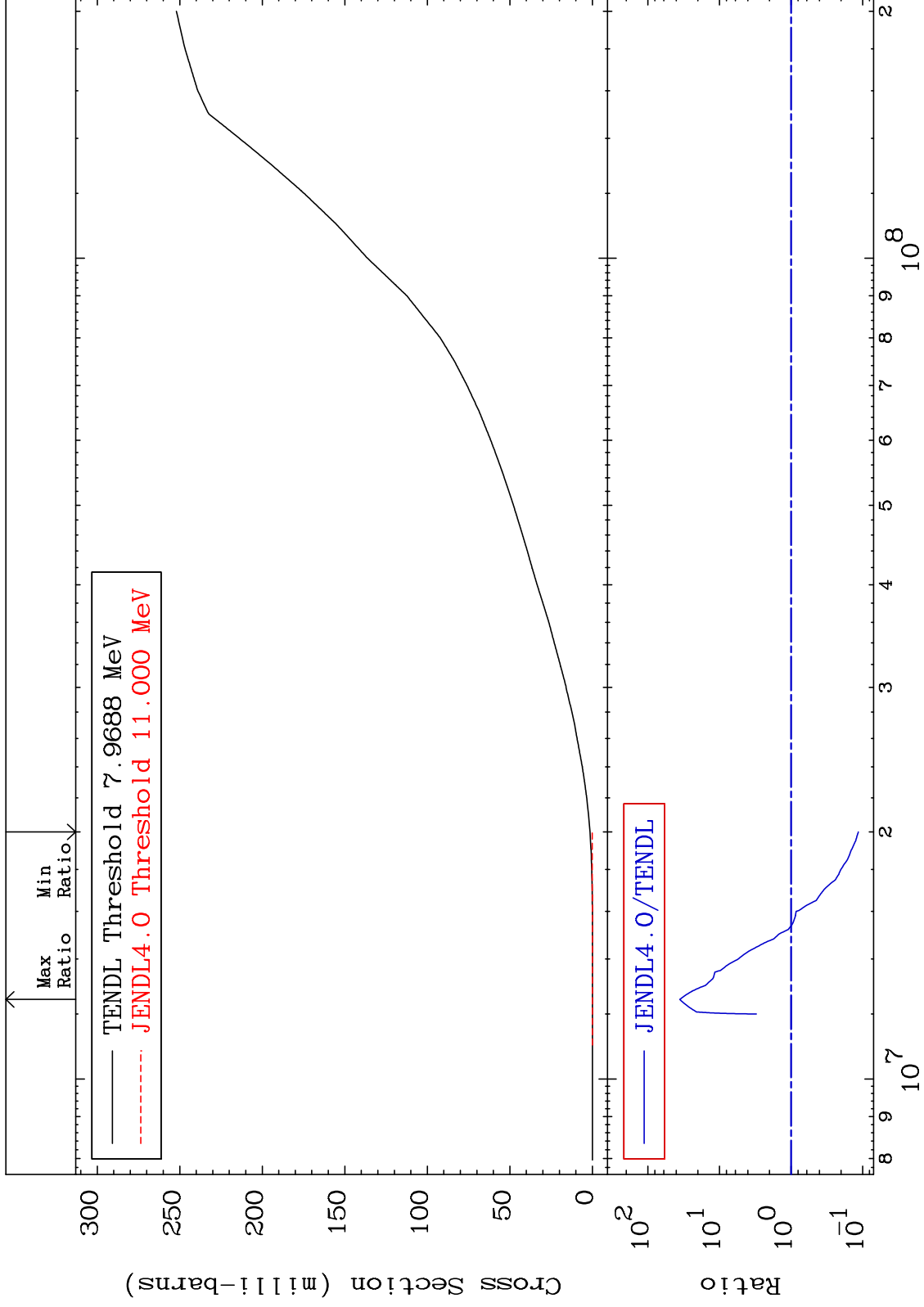
Incident Energy (eV)

28-Ni-59

MAT 2828

He-3 Production
Cross Section

28-Ni-59
-88.54 To 3479. %



41

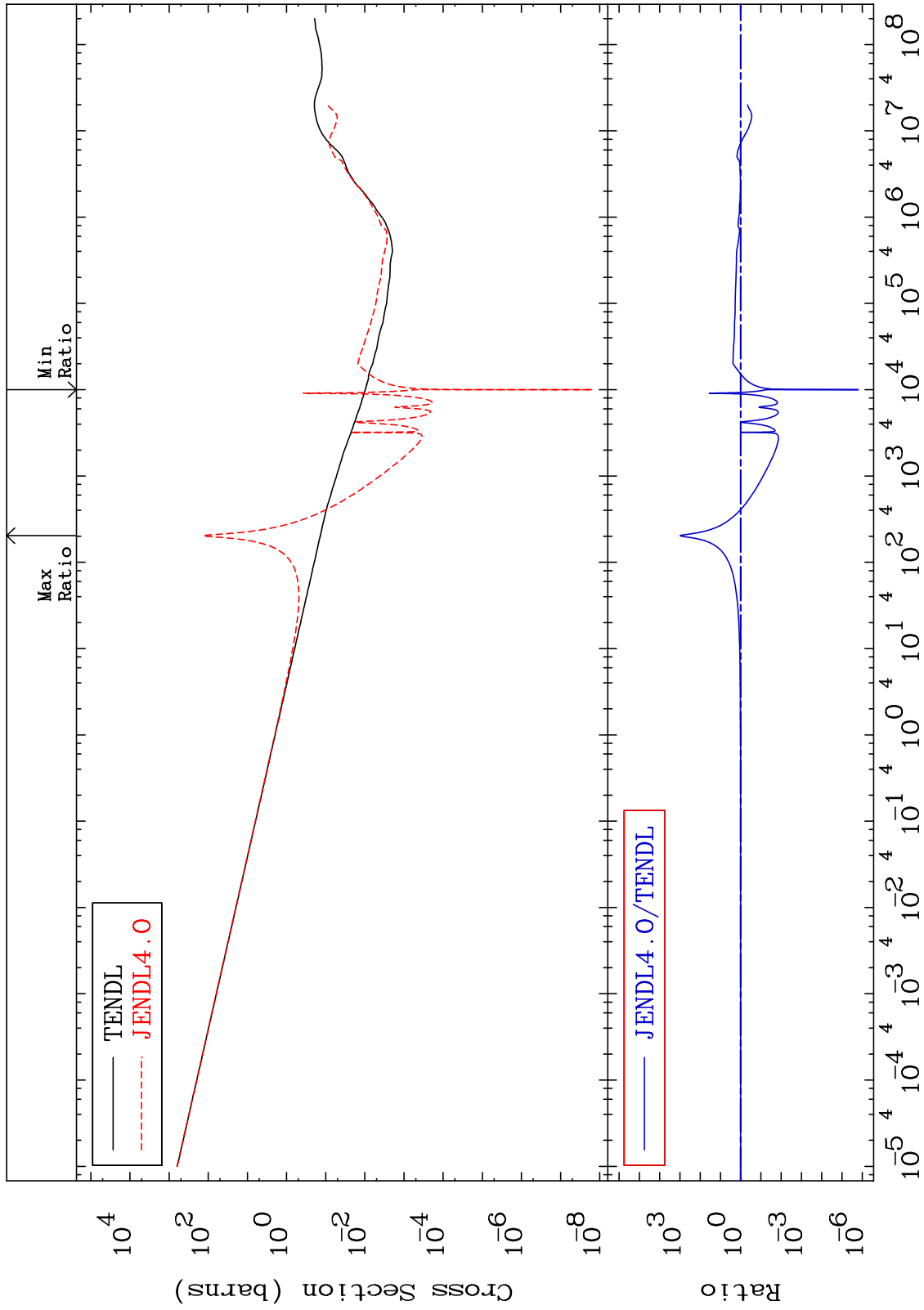
Incident Energy (eV)

28-Ni-59

MAT 2828

He-4 Production
Cross Section

28-Ni-59
-100.0 To 9999. %



42

Incident Energy (eV)

28-Ni-59

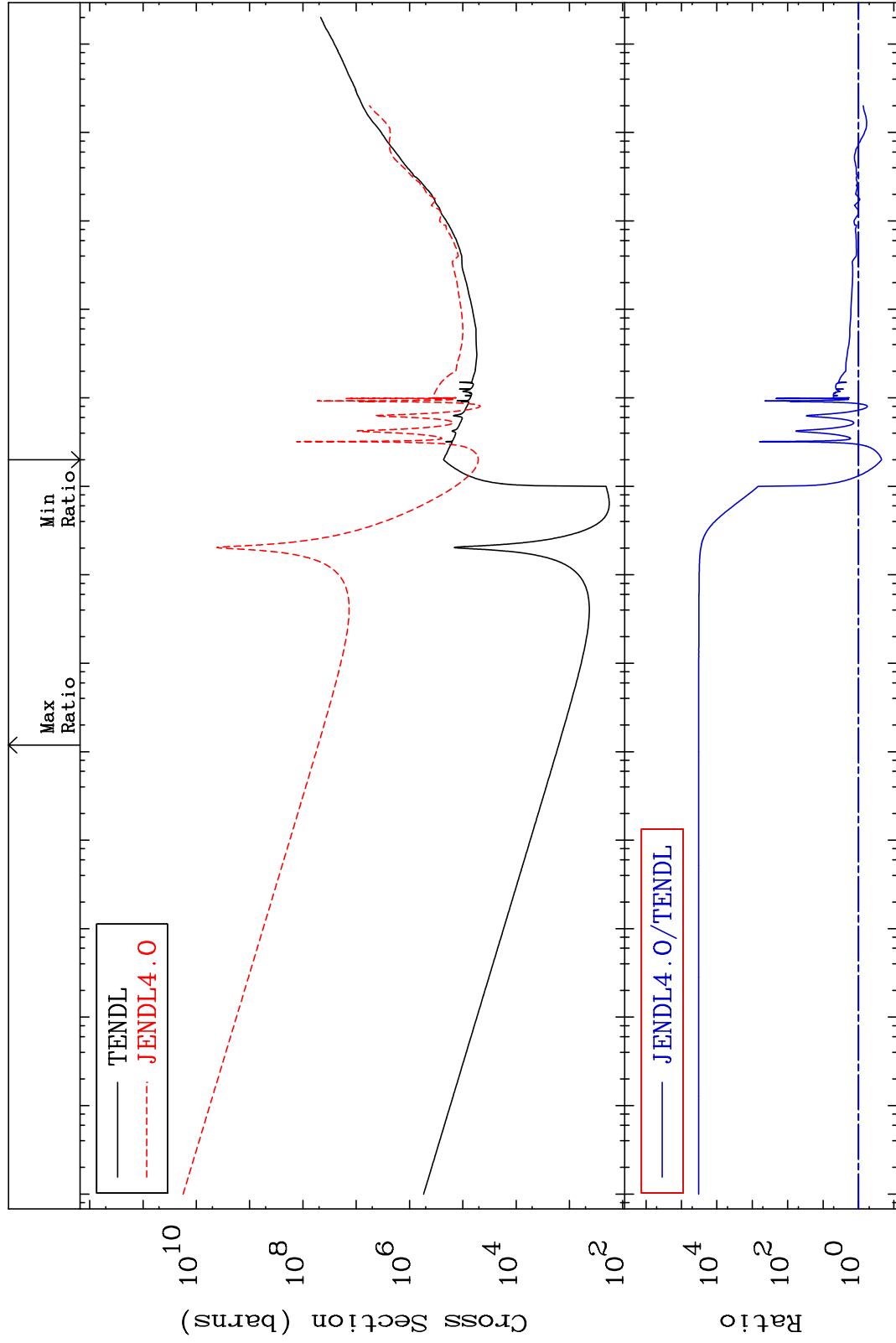
MAT 2828

Kerma total (eV-barns)

28-Ni-59

-77.68 To 9999. %

Cross Section



43

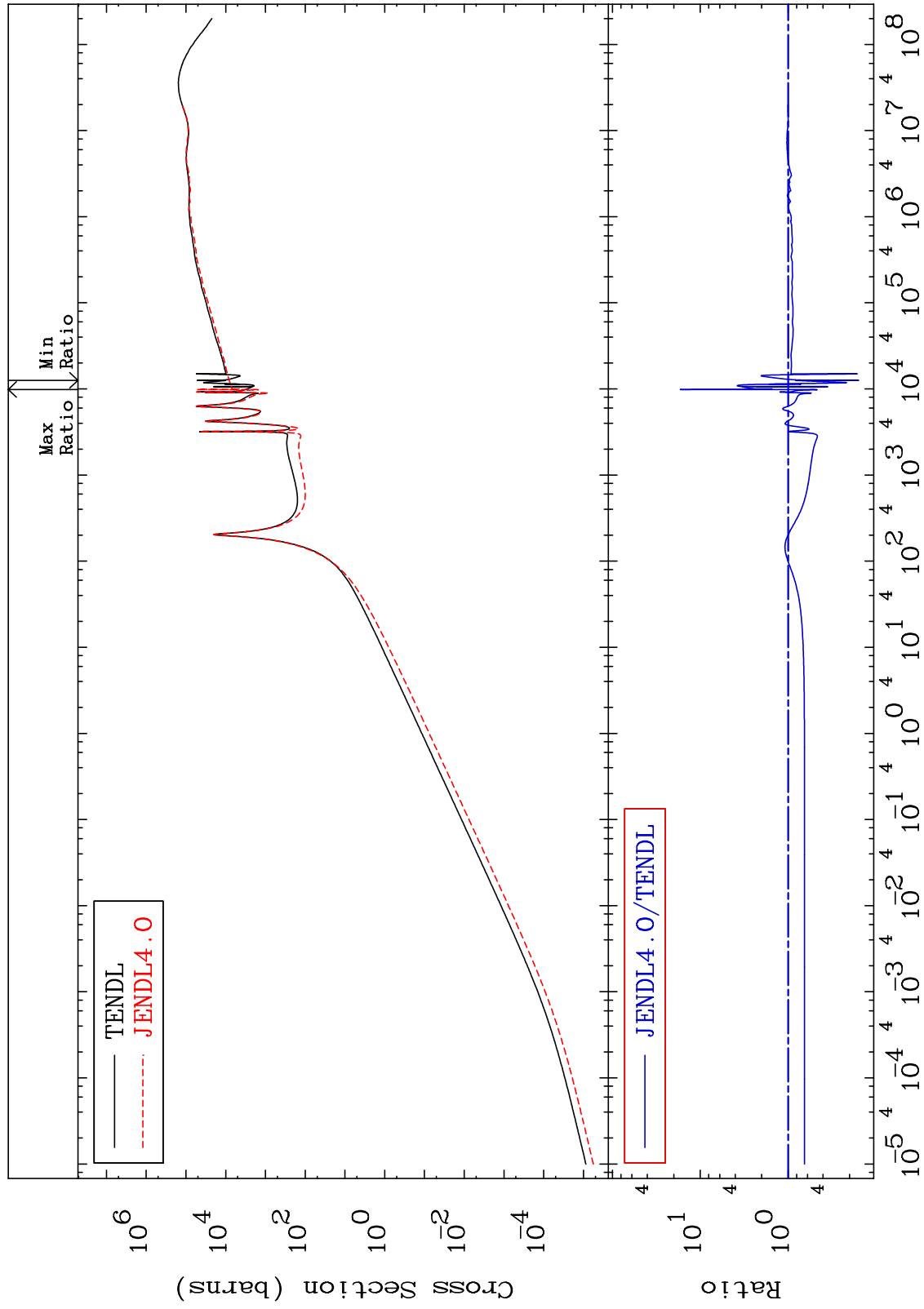
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma elastic
Cross Section

28-Ni-59
-84.22 To 1580. %



44

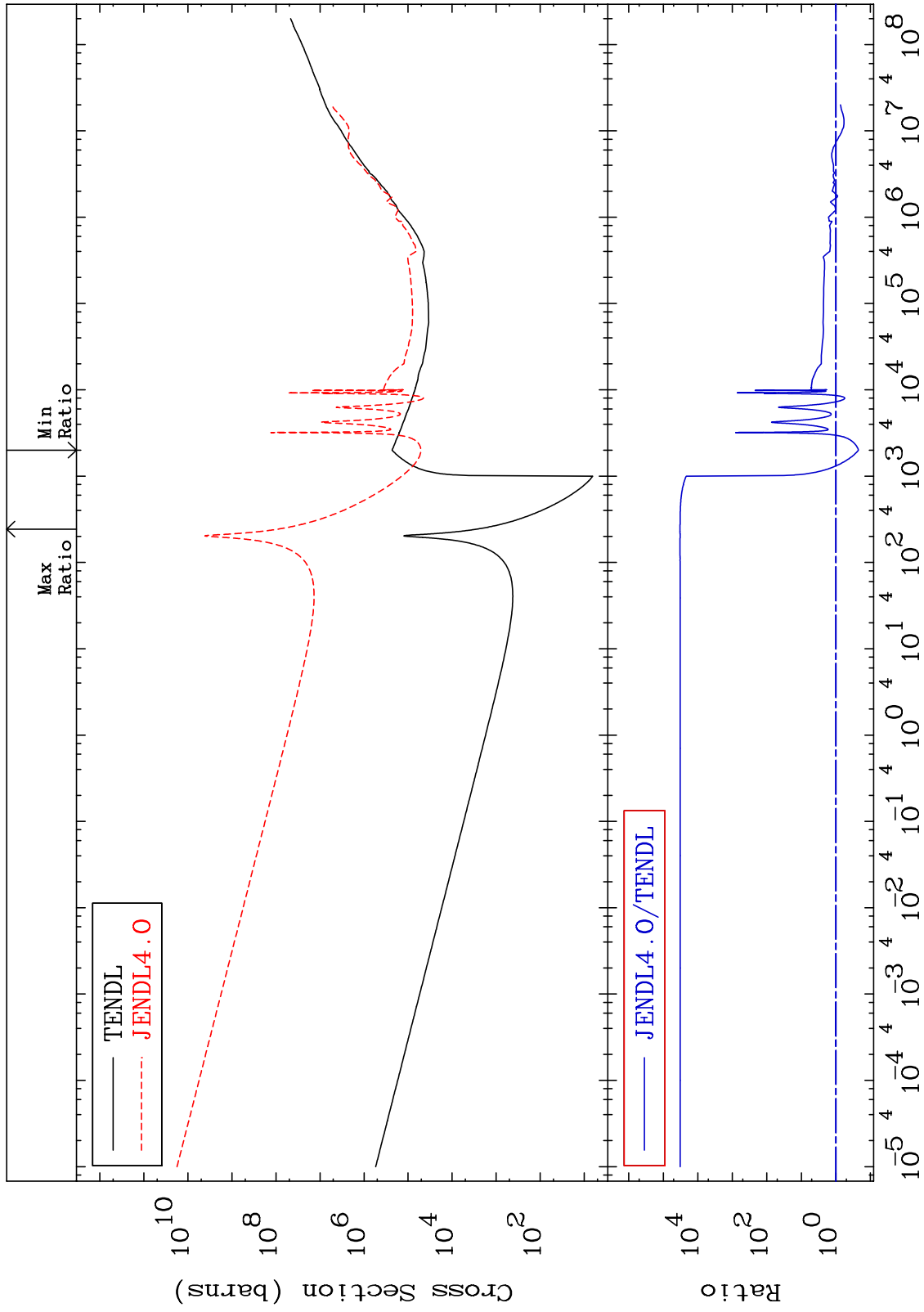
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma non-elastic (all but mt2)
Cross Section

28-Ni-59
-77.72 To 9999. %



45

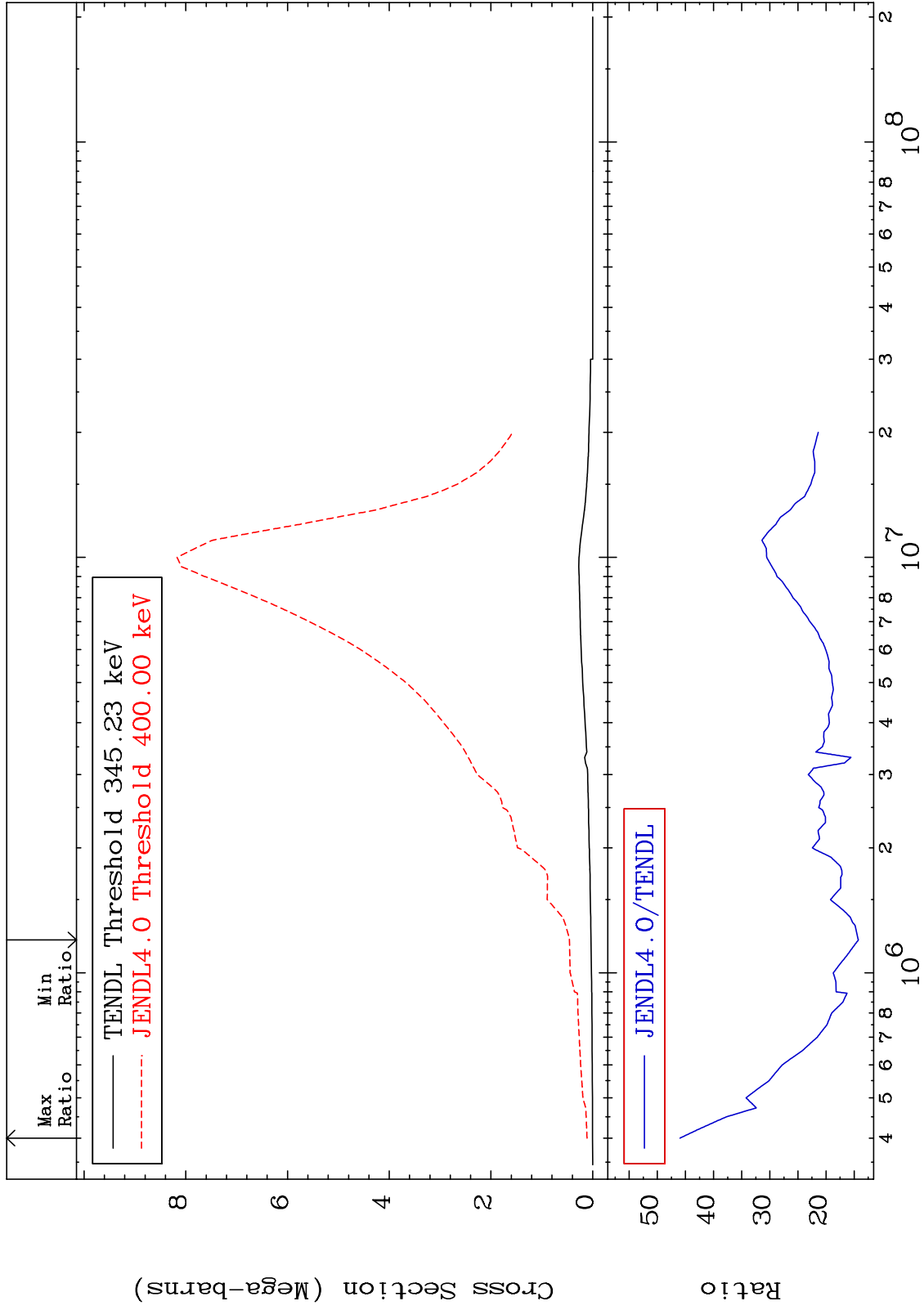
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma inelastic (mt51-91)
Cross Section

28-Ni-59
1325. To 4497. %



46

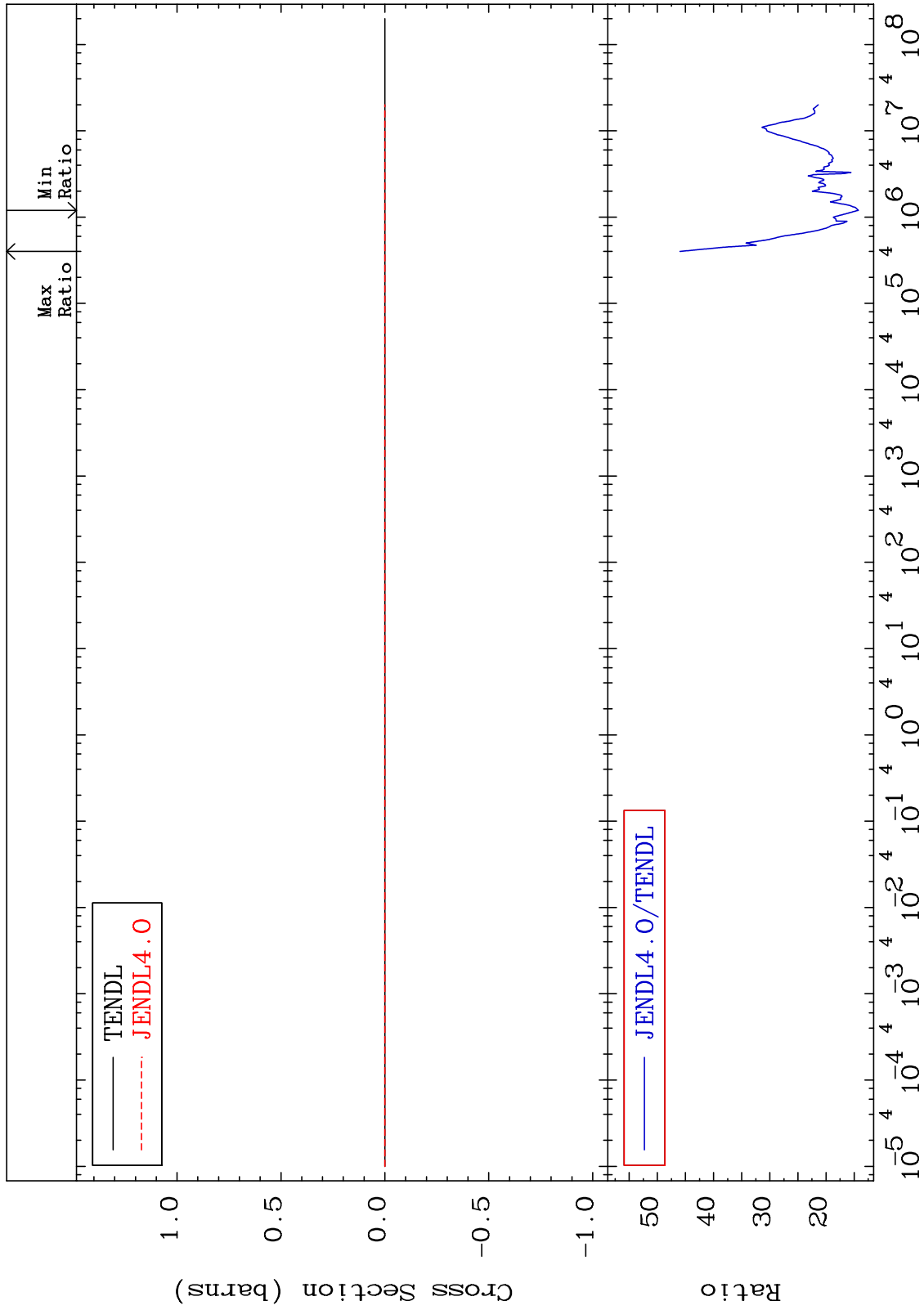
Incident Energy (eV)

28-Ni-59

MAT 2828

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

28-Ni-59
1325. To 4497. %



47

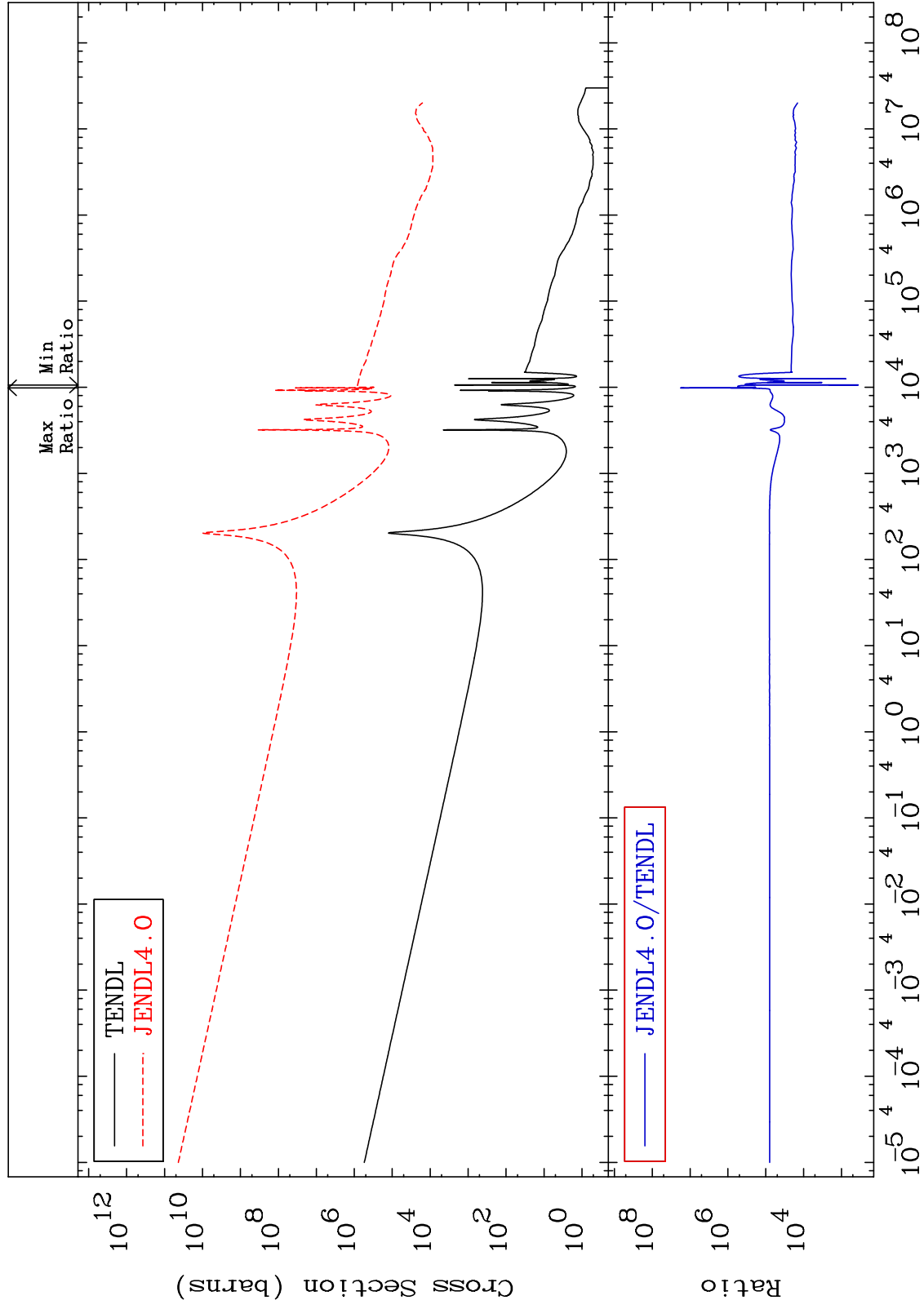
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma capture (mt102)
Cross Section

28-Ni-59
9999. To 9999. %



48

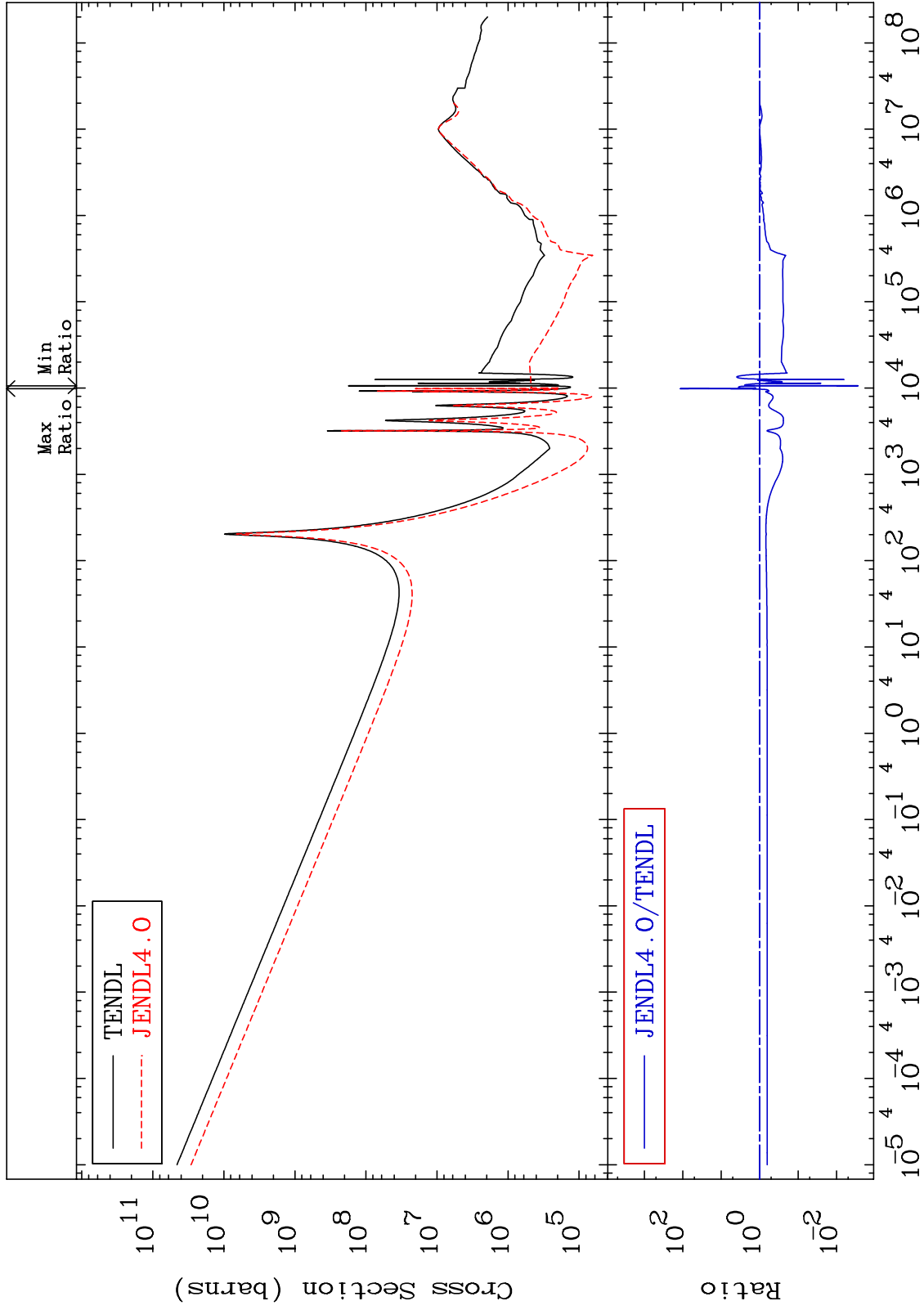
Incident Energy (eV)

28-Ni-59

MAT 2828

Total photon (eV-barns)
Cross Section

28-Ni-59
-99.73 To 9999. %



49

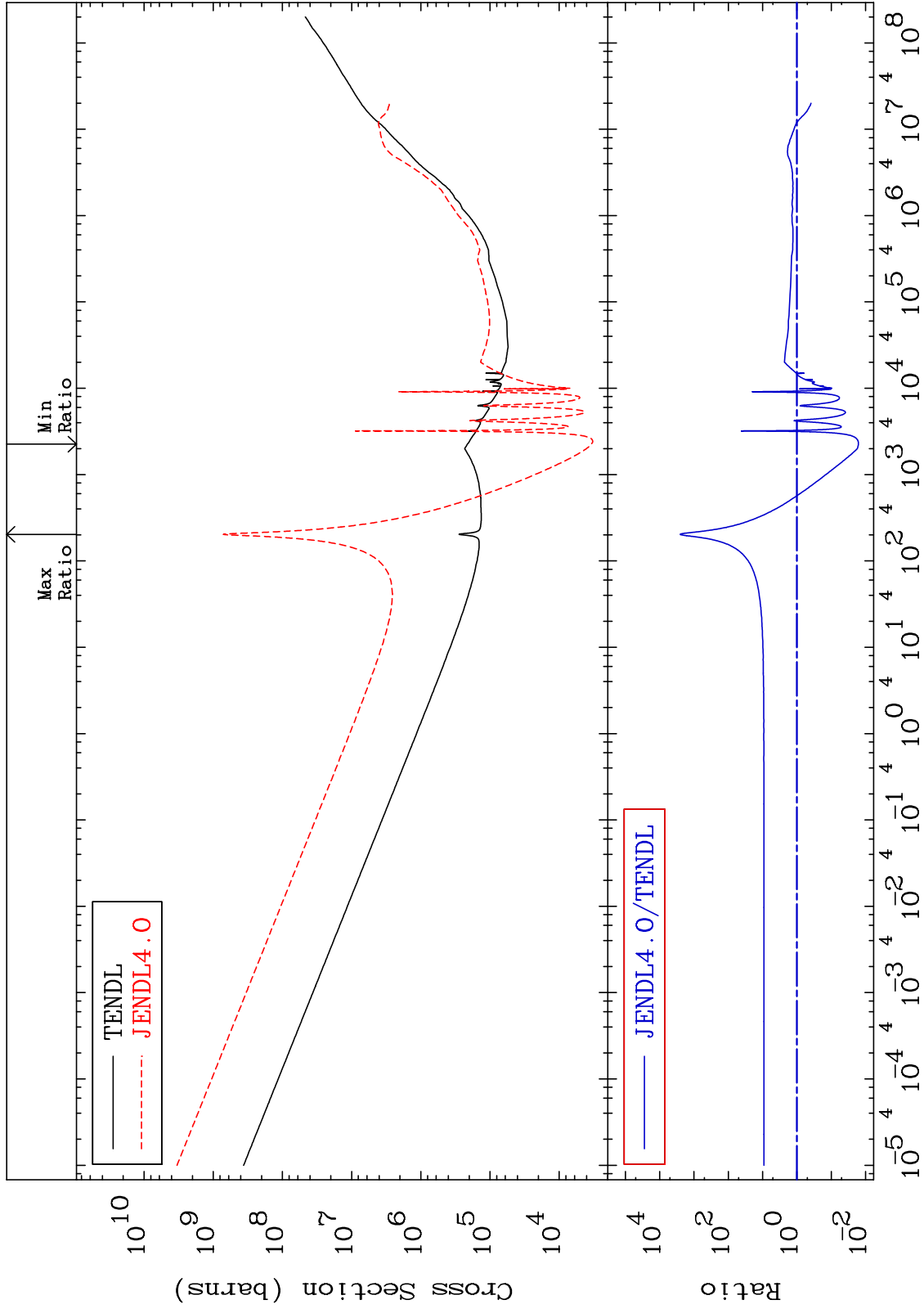
Incident Energy (eV)

28-Ni-59

MAT 2828

Total kinematic kerma (high limit)
Cross Section

28-Ni-59
-98.38 To 9999. %



50

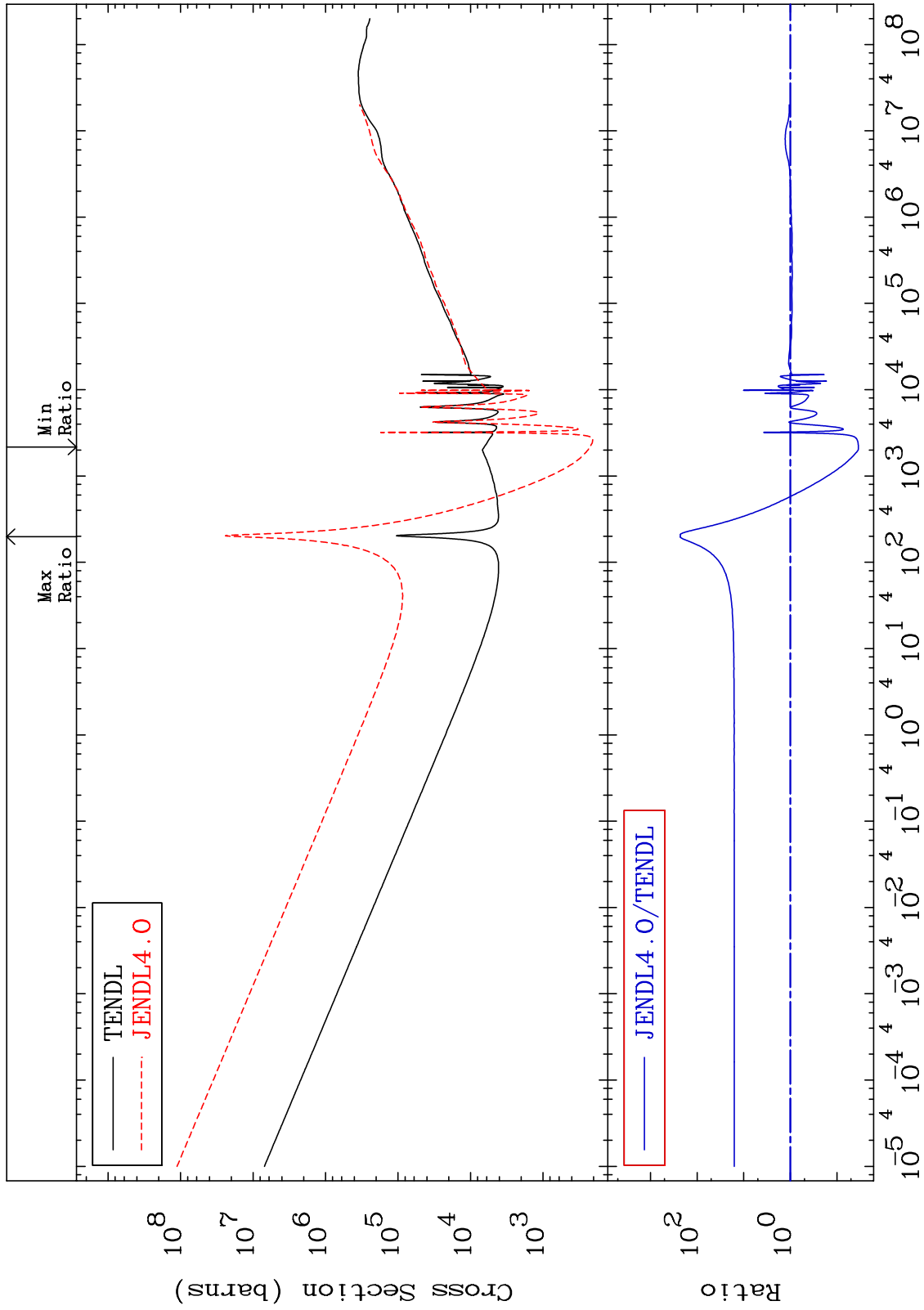
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa total (eV-barns)
Cross Section

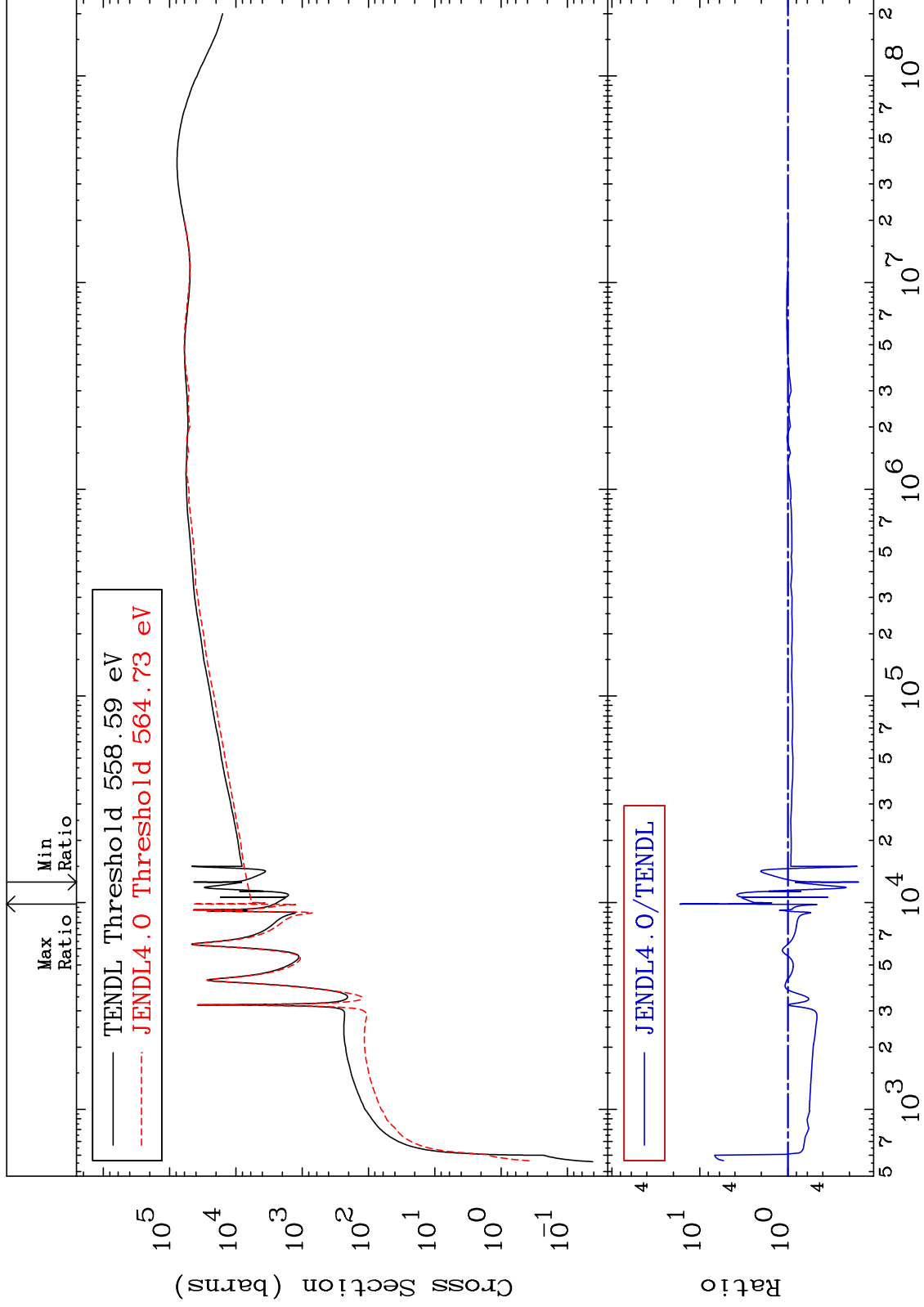
28-Ni-59
-96.52 To 9999. %



MAT 2828

Dpa elastic (mt2)
Cross Section

28-Ni-59
-84.22 To 1580. %



52

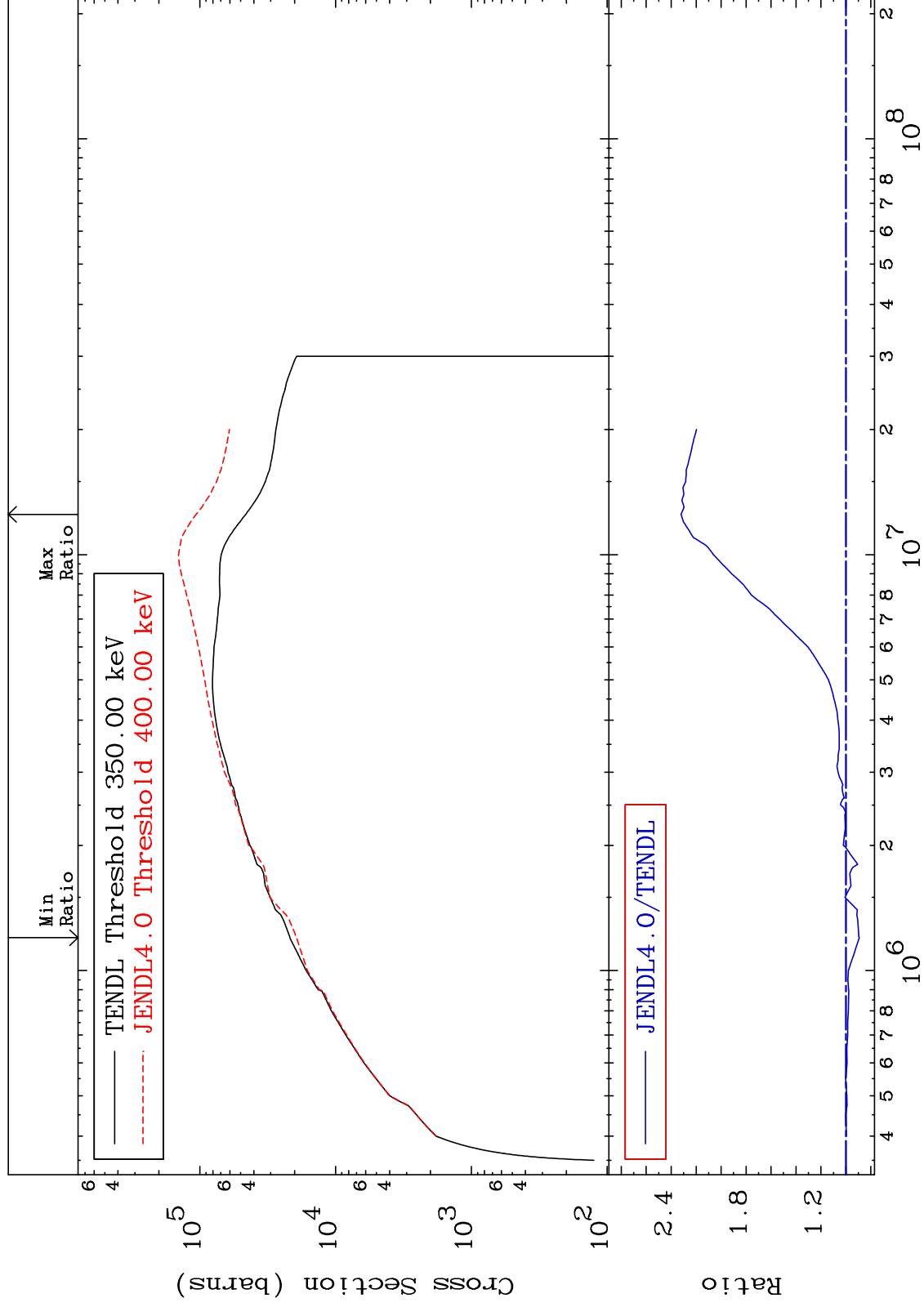
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa inelastic (mt51-91)
Cross Section

28-Ni-59
-10.71 To 132.1 %



53

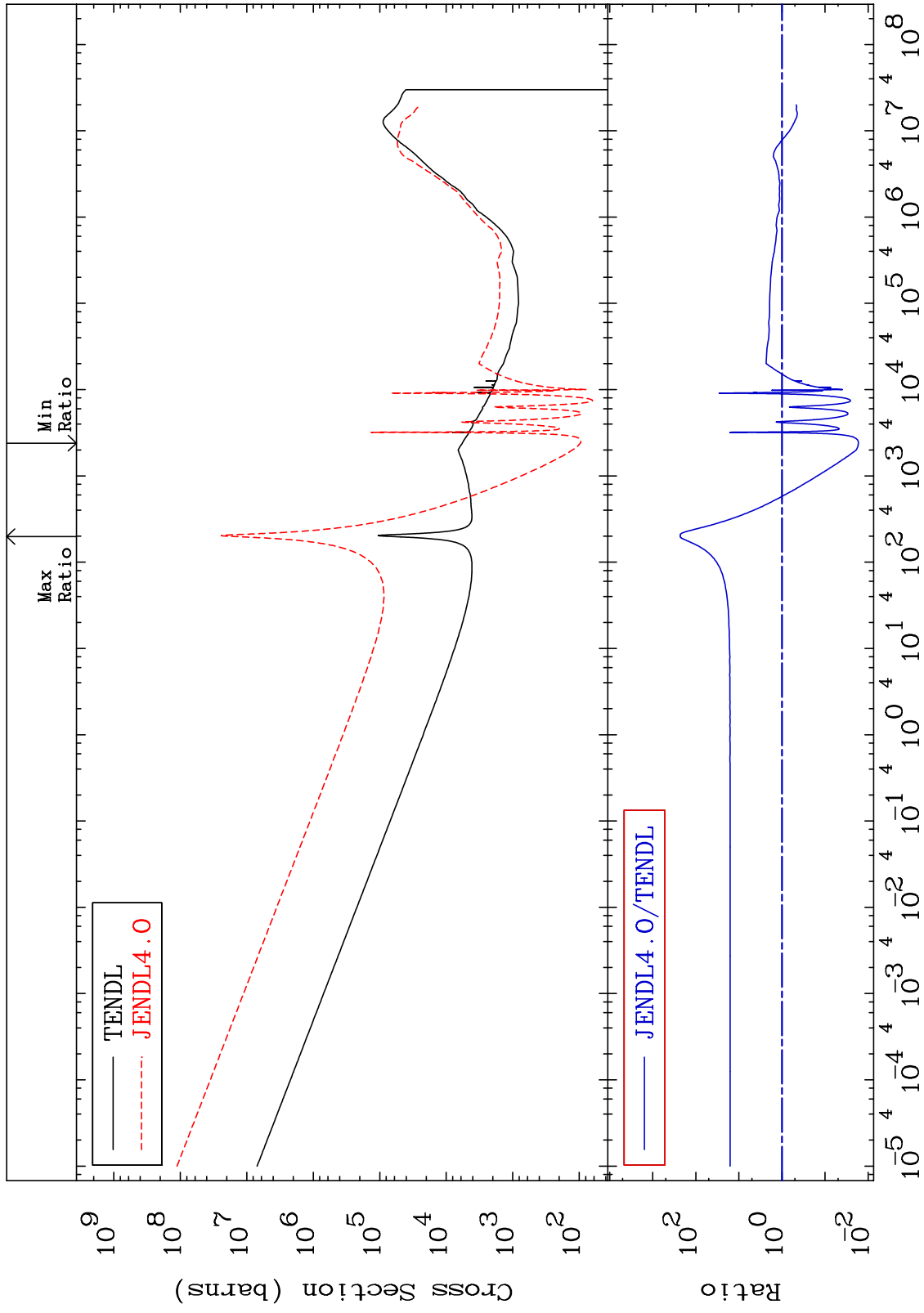
Incident Energy (eV)

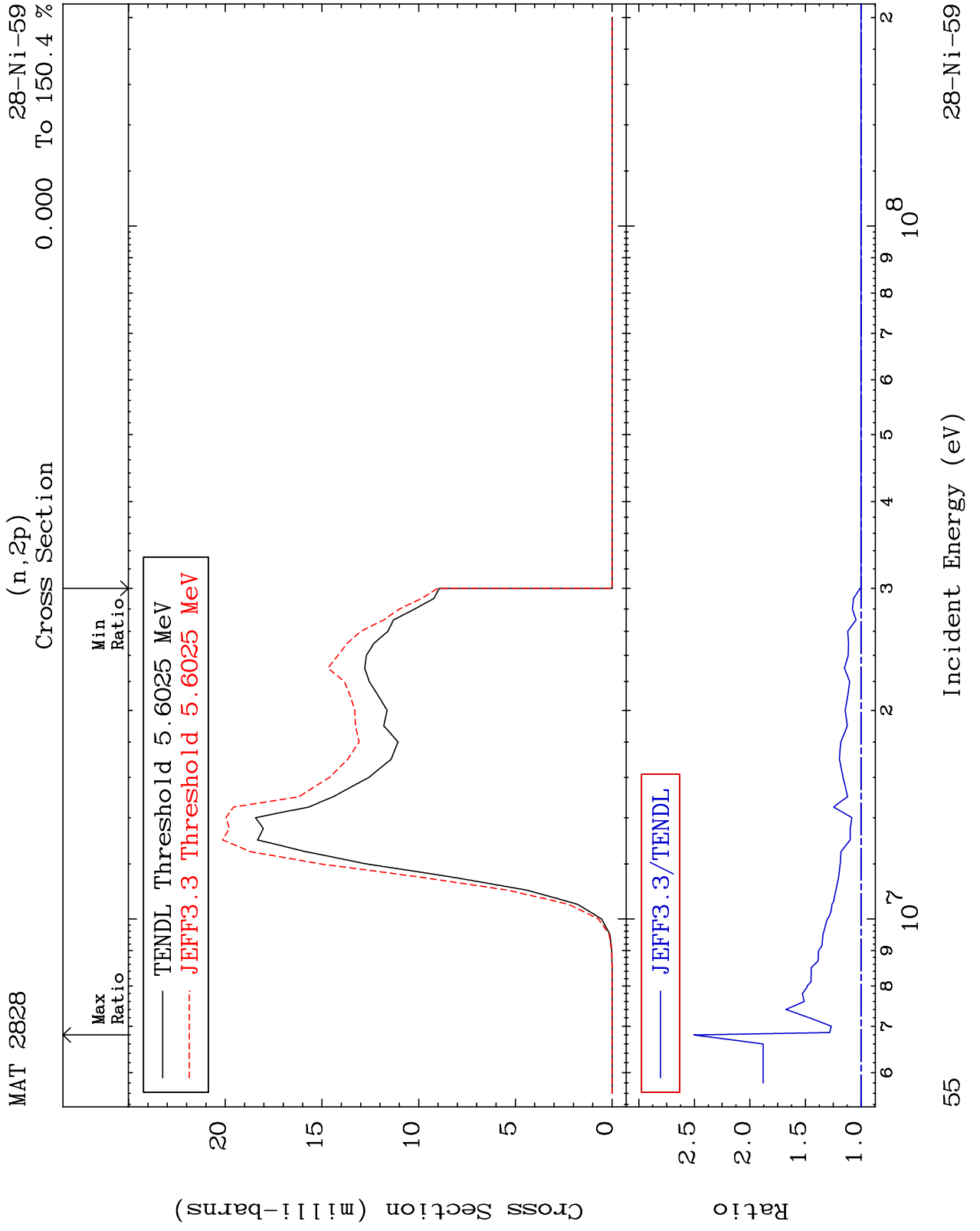
28-Ni-59

MAT 2828

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-59
-98.32 To 9999. %





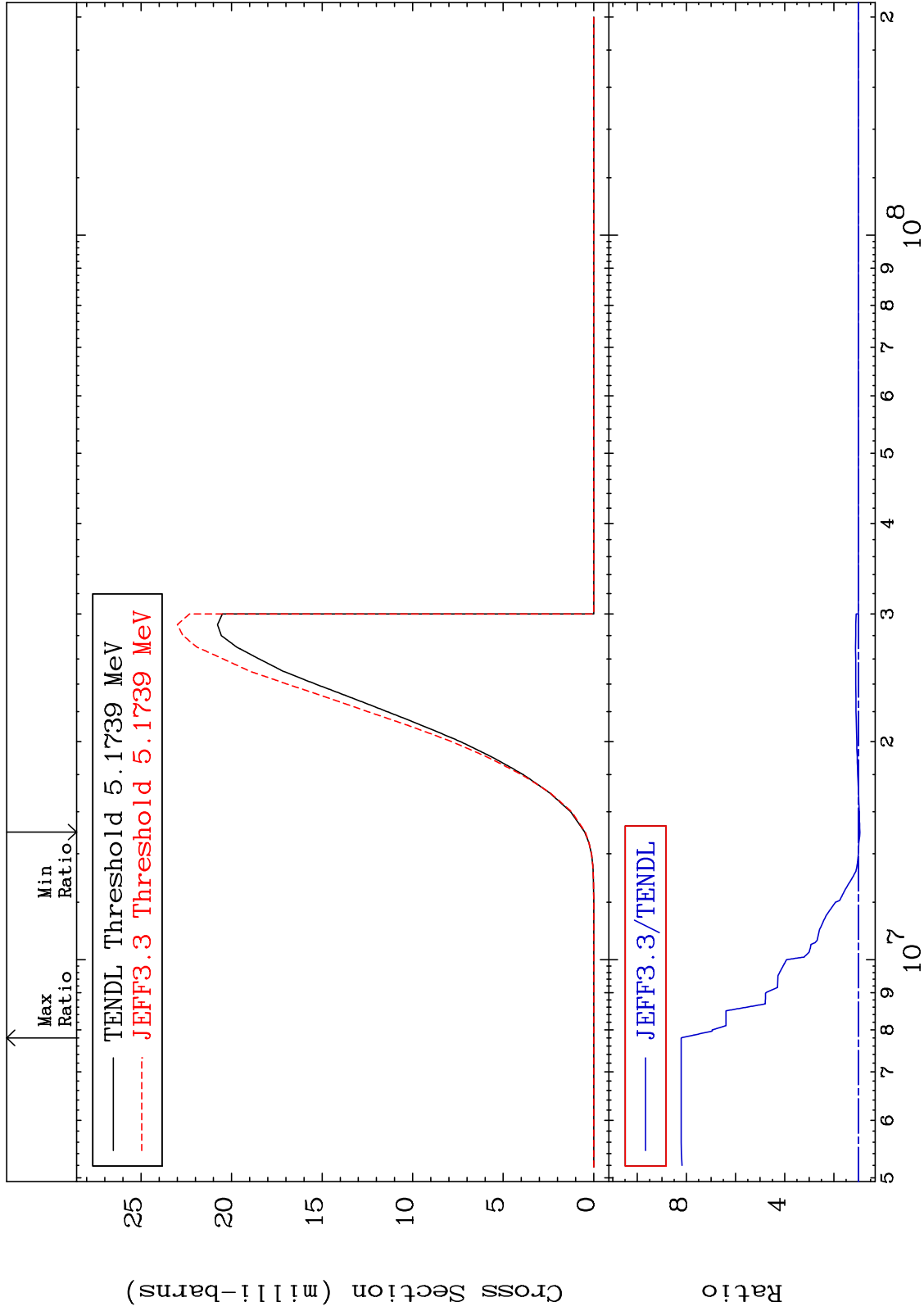
MAT 2828

(n,p) α

28-Ni-59

Cross Section

-6.511 To 721.2 %



56

Incident Energy (eV)

28-Ni-59

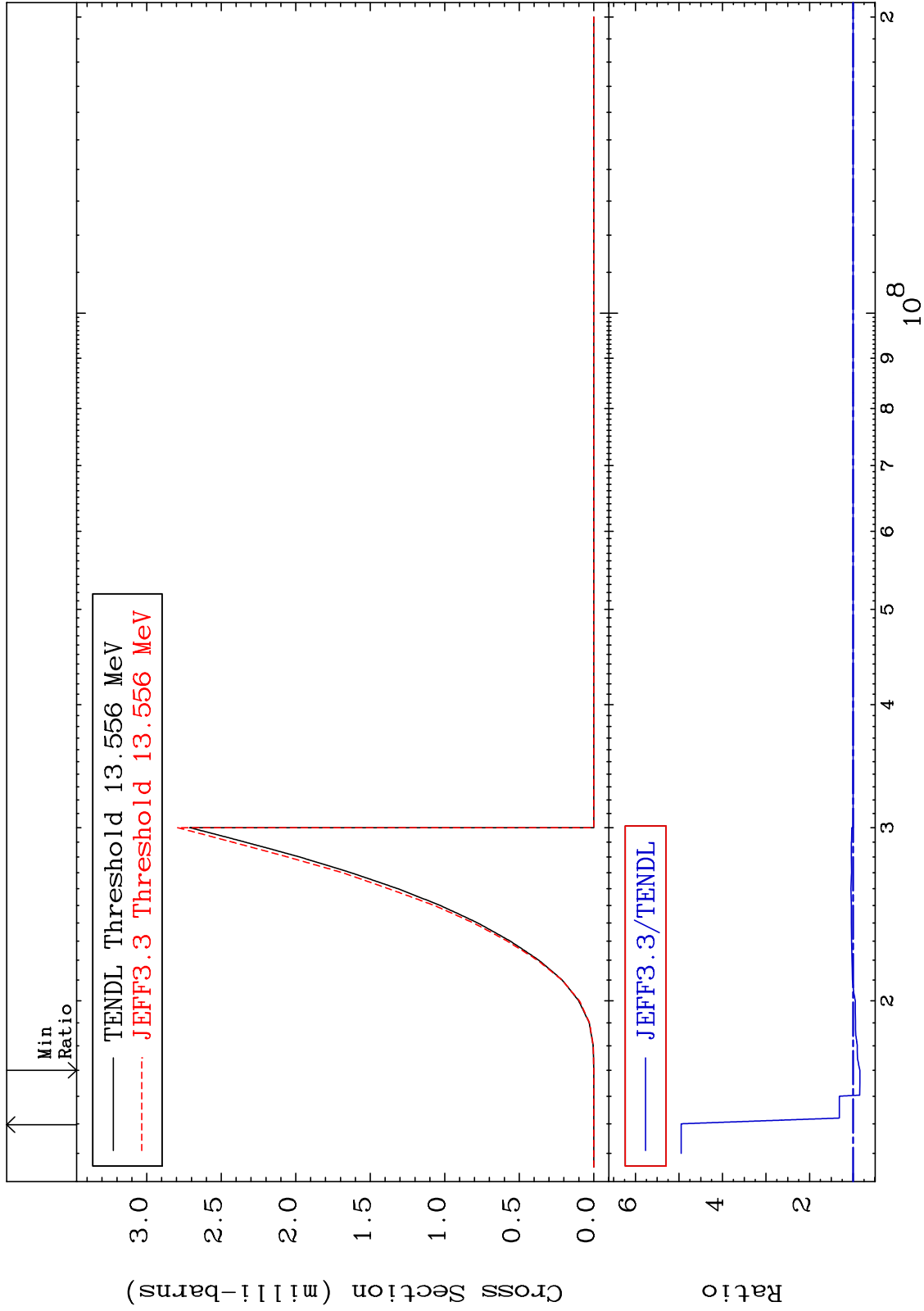
MAT 2828

(n,p) d

28-Ni-59

Cross Section

-15.74 To 394.8 %



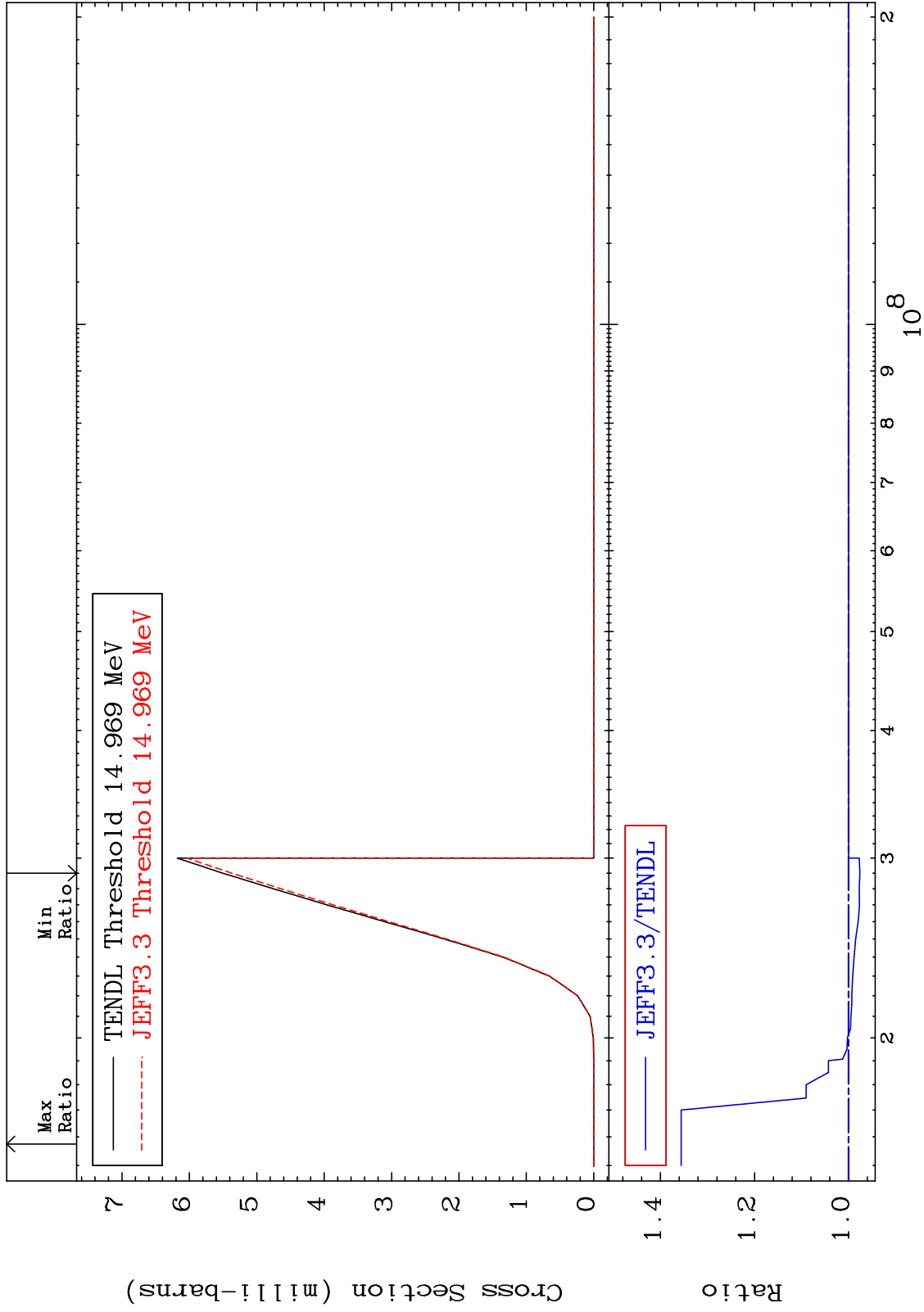
MAT 2828

(n,p) t

28-Ni-59

Cross Section

-2.444 To 35.59 %



58

Incident Energy (eV)

28-Ni-59

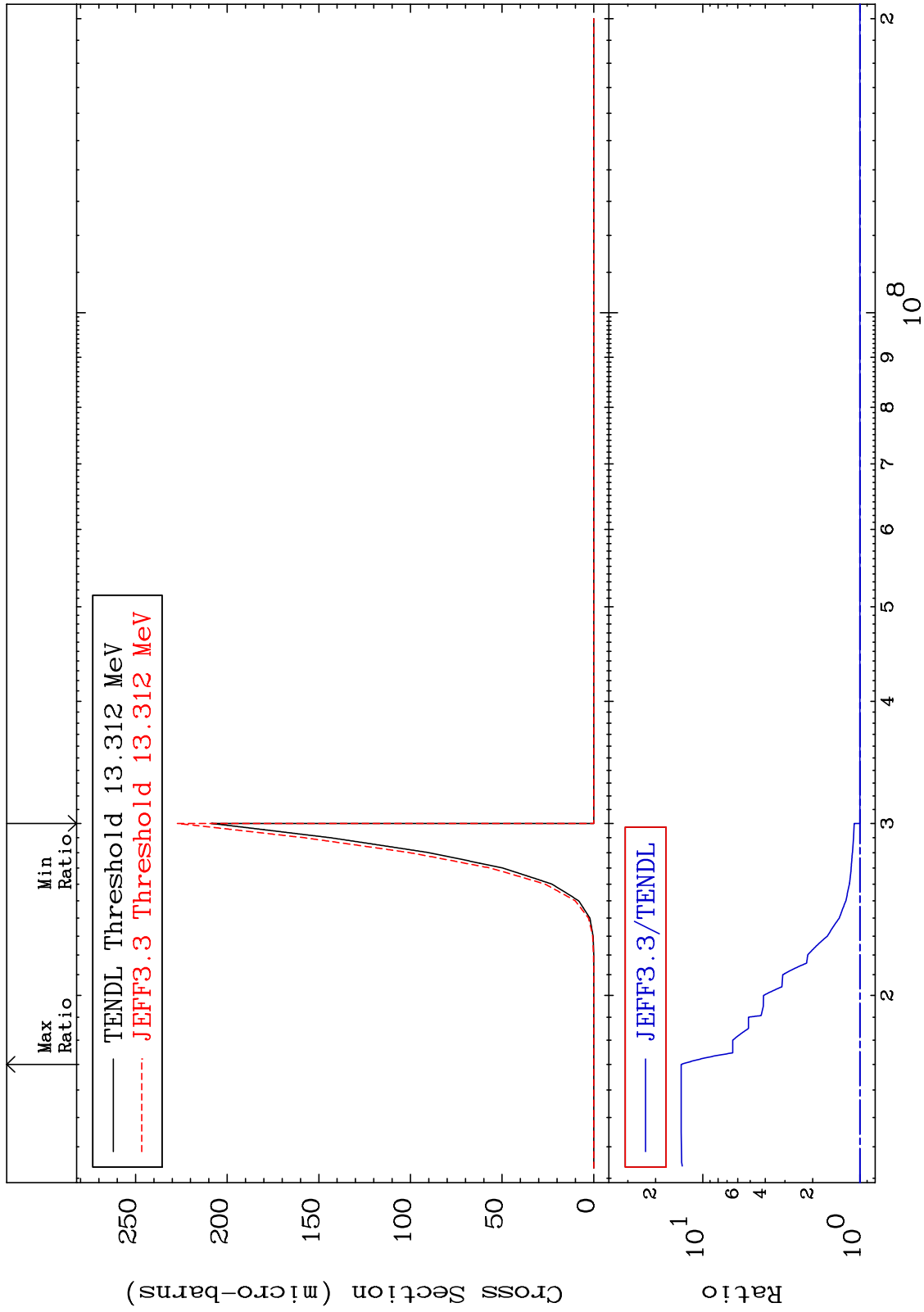
MAT 2828

(n,d) α

28-Ni-59

Cross Section

0.000 To 1272. %



59

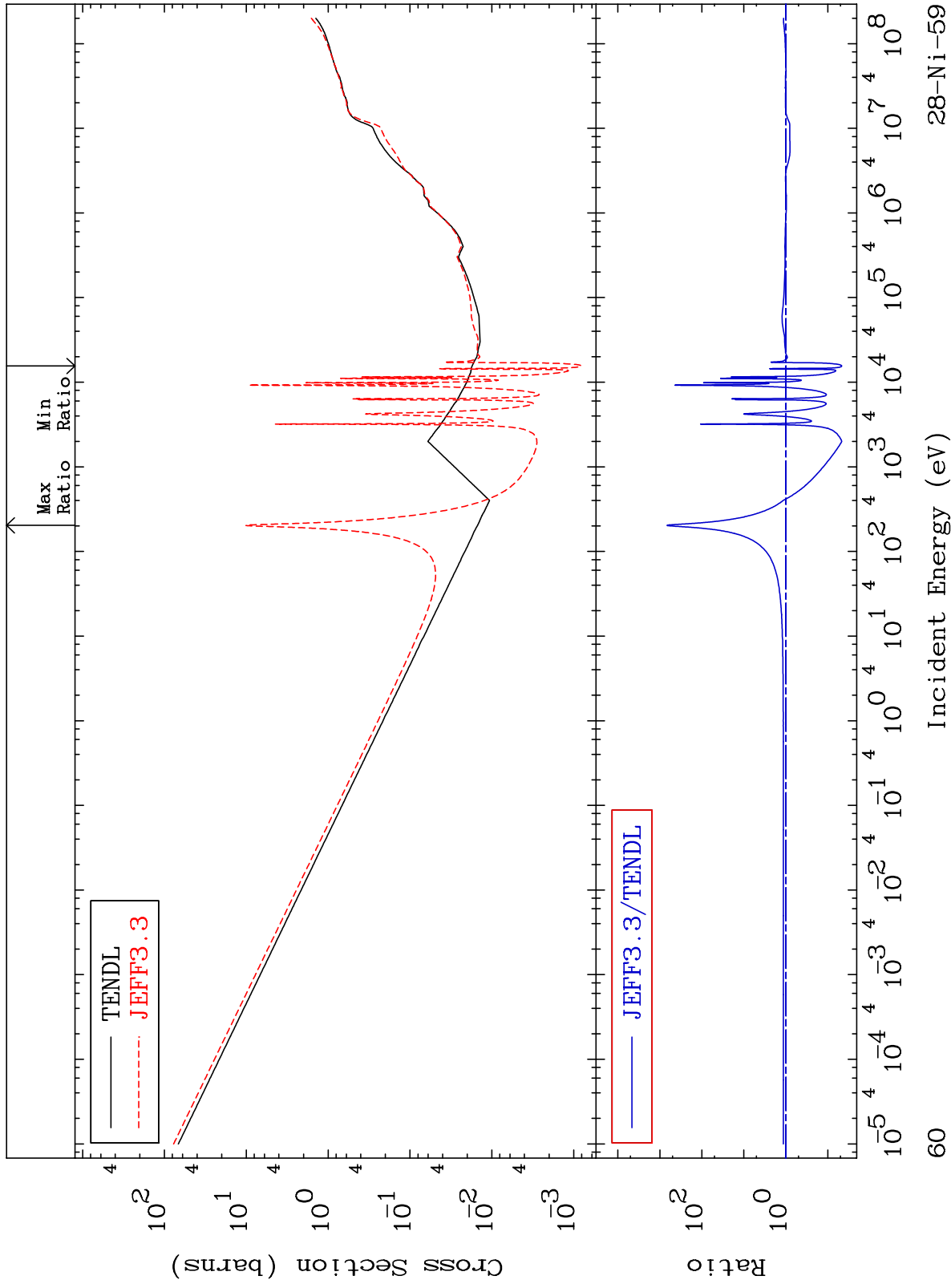
Incident Energy (eV)

28-Ni-59

MAT 2828

Hydrogen Production
Cross Section

28-Ni-59
-95.35 To 9999. %



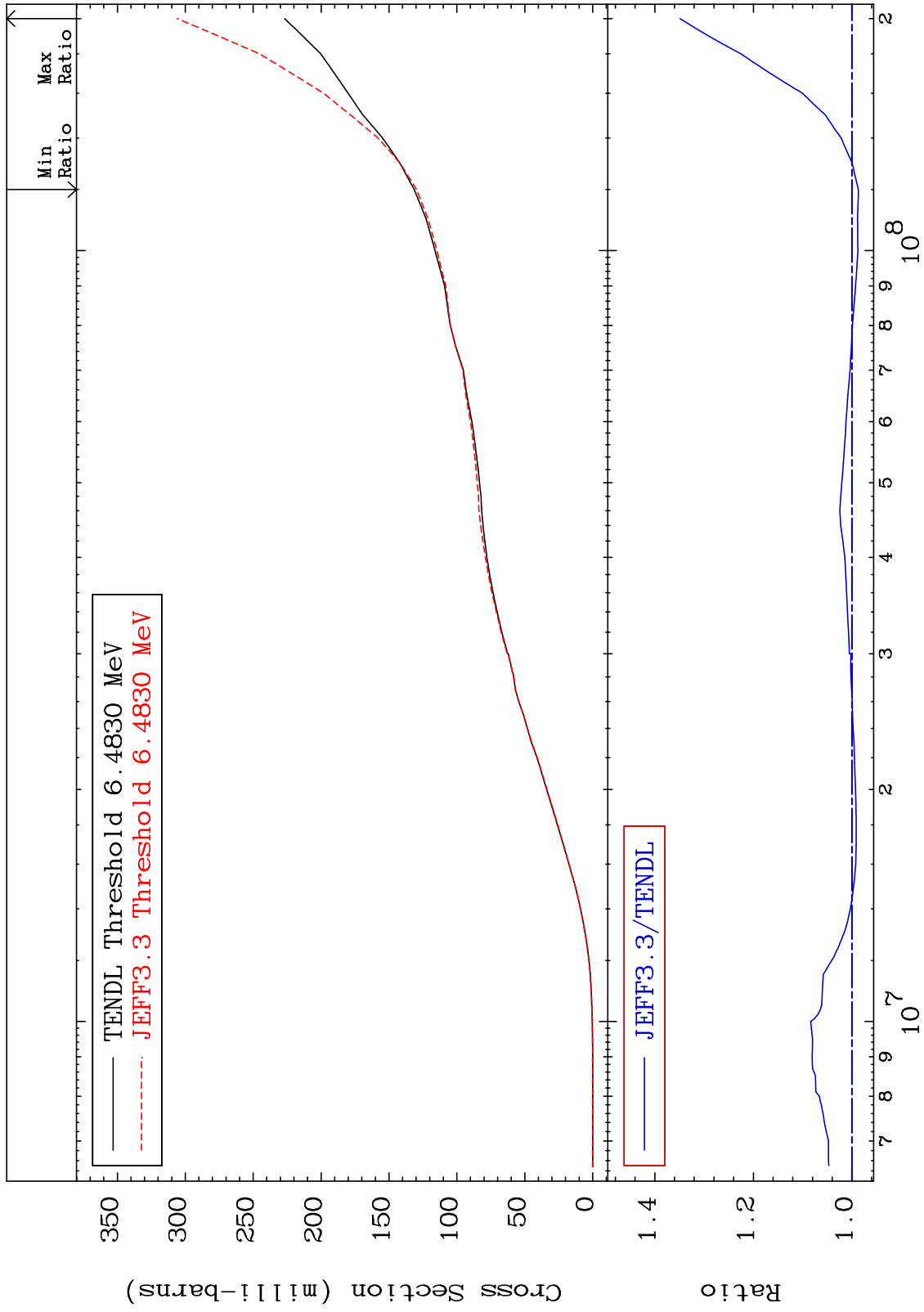
60

28-Ni-59

MAT 2828

Deuterium Production
Cross Section

28-Ni-59
-1.320 To 34.88 %



61

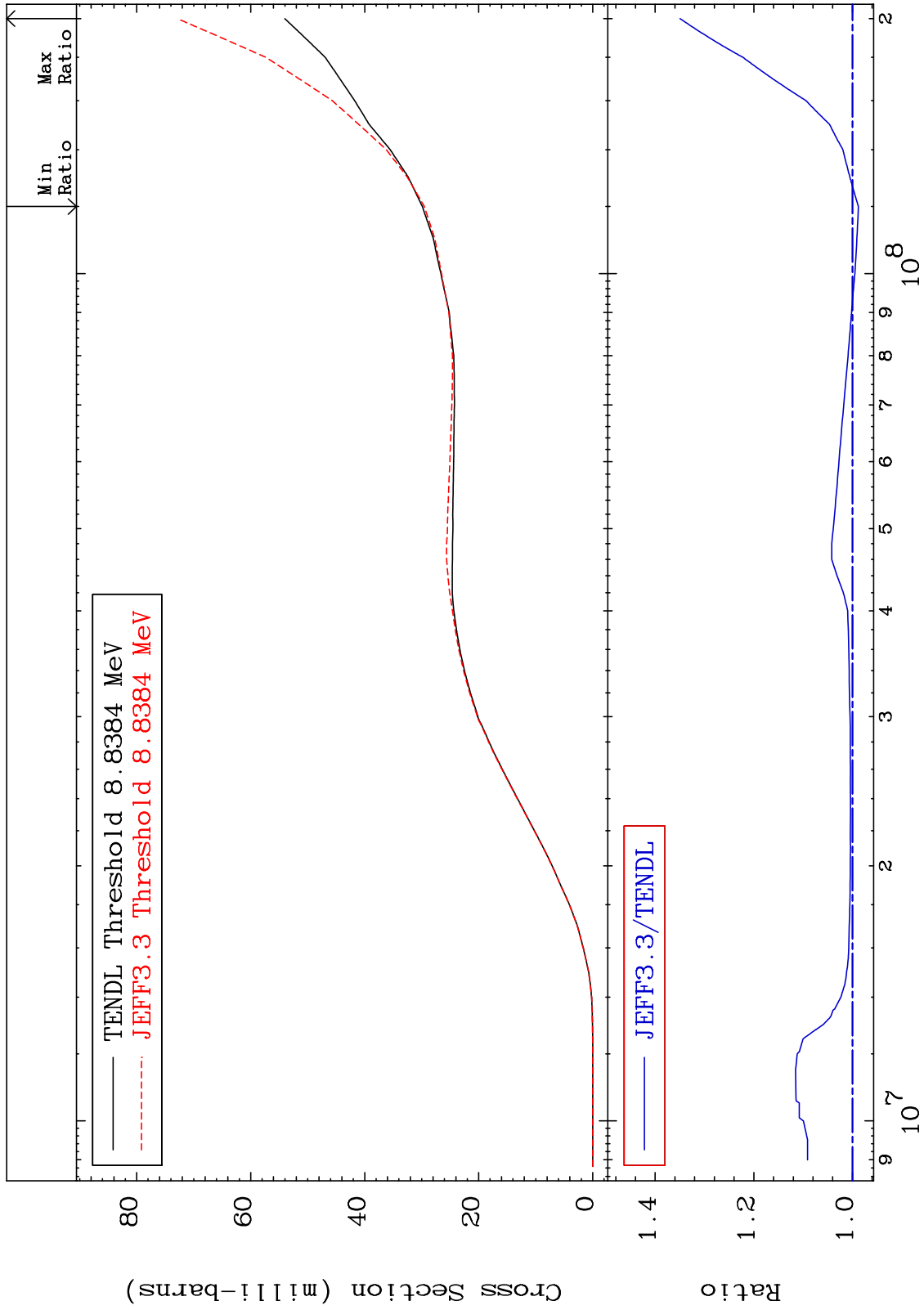
Incident Energy (eV)

28-Ni-59

MAT 2828

Tritium Production
Cross Section

28-Ni-59
-1.208 To 34.96 %



62

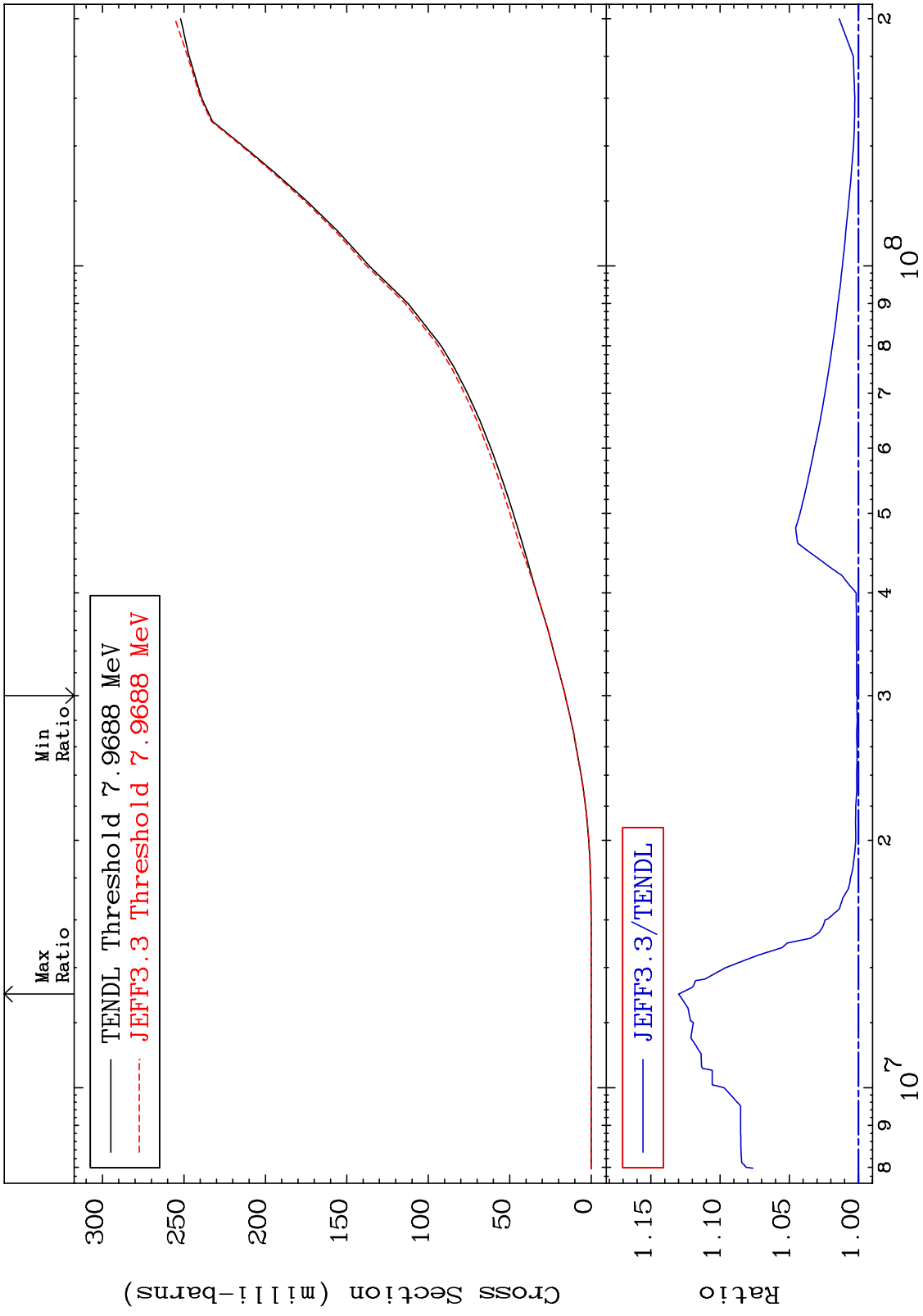
Incident Energy (eV)

28-Ni-59

MAT 2828

He-3 Production
Cross Section

28-Ni-59
0.088 To 12.99 %



63

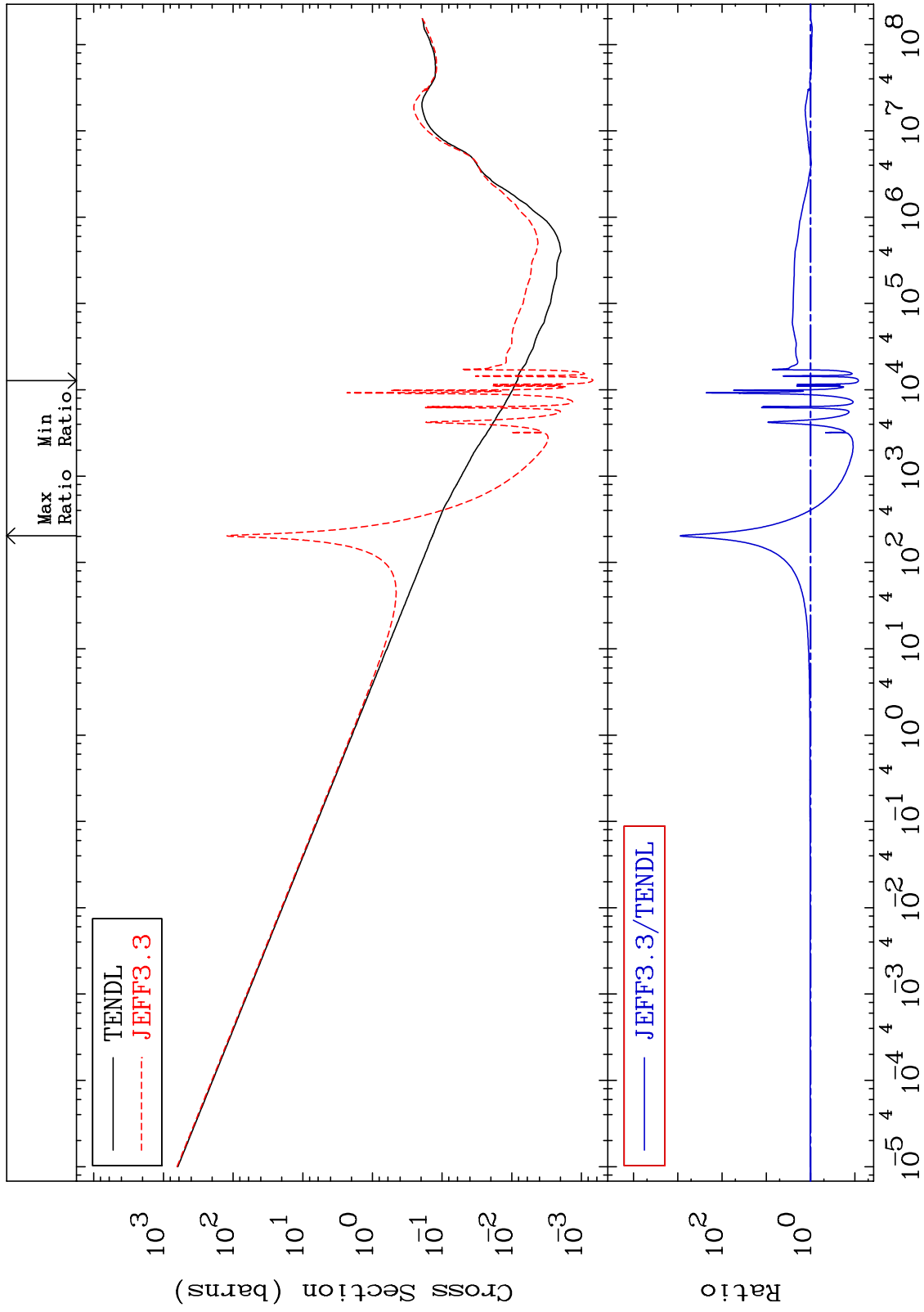
Incident Energy (eV)

28-Ni-59

MAT 2828

He-4 Production
Cross Section

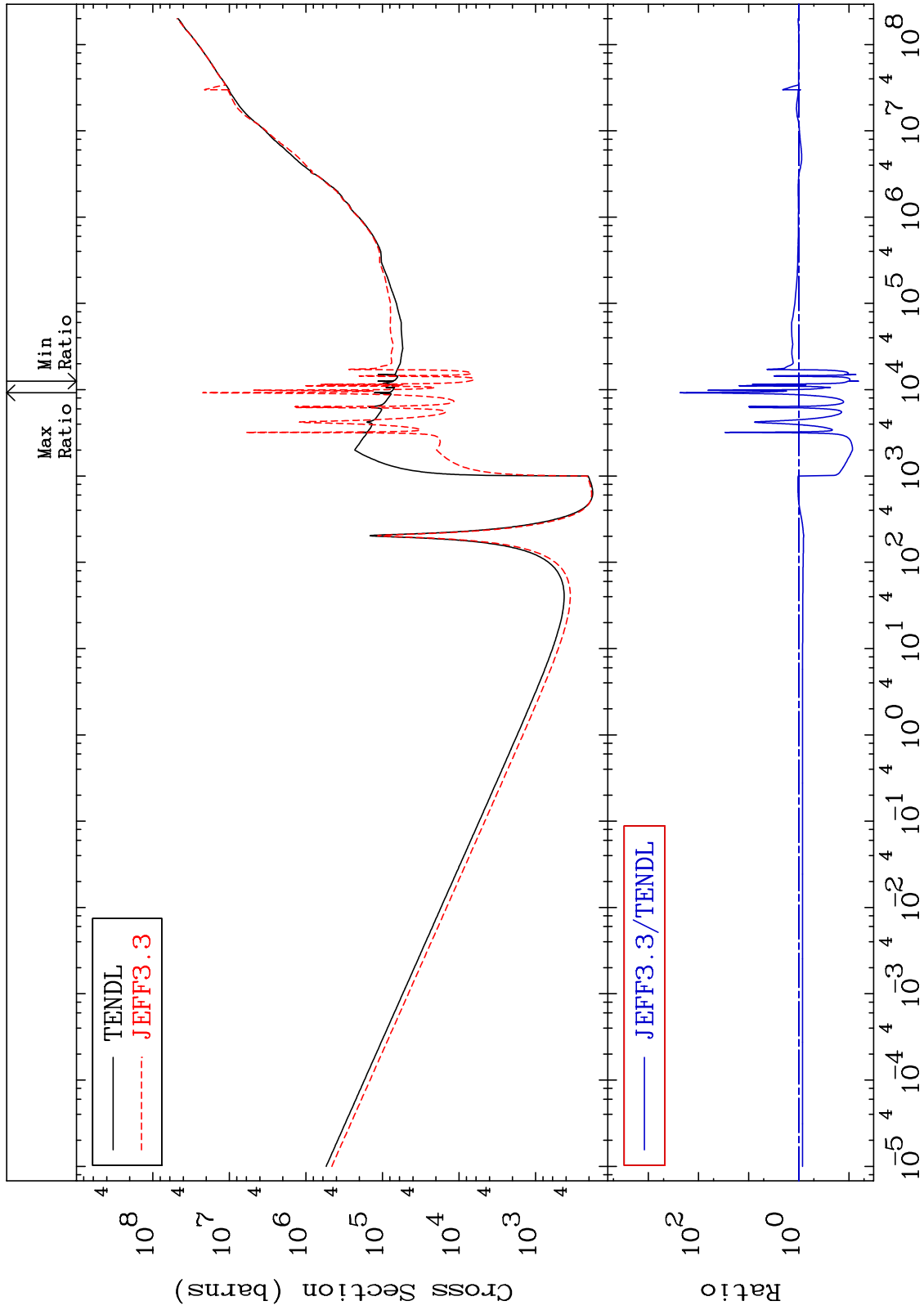
28-Ni-59
-91.69 To 9999. %



MAT 2828

Kerma total (eV-barns)
Cross Section

28-Ni-59
-93.53 To 9999. %



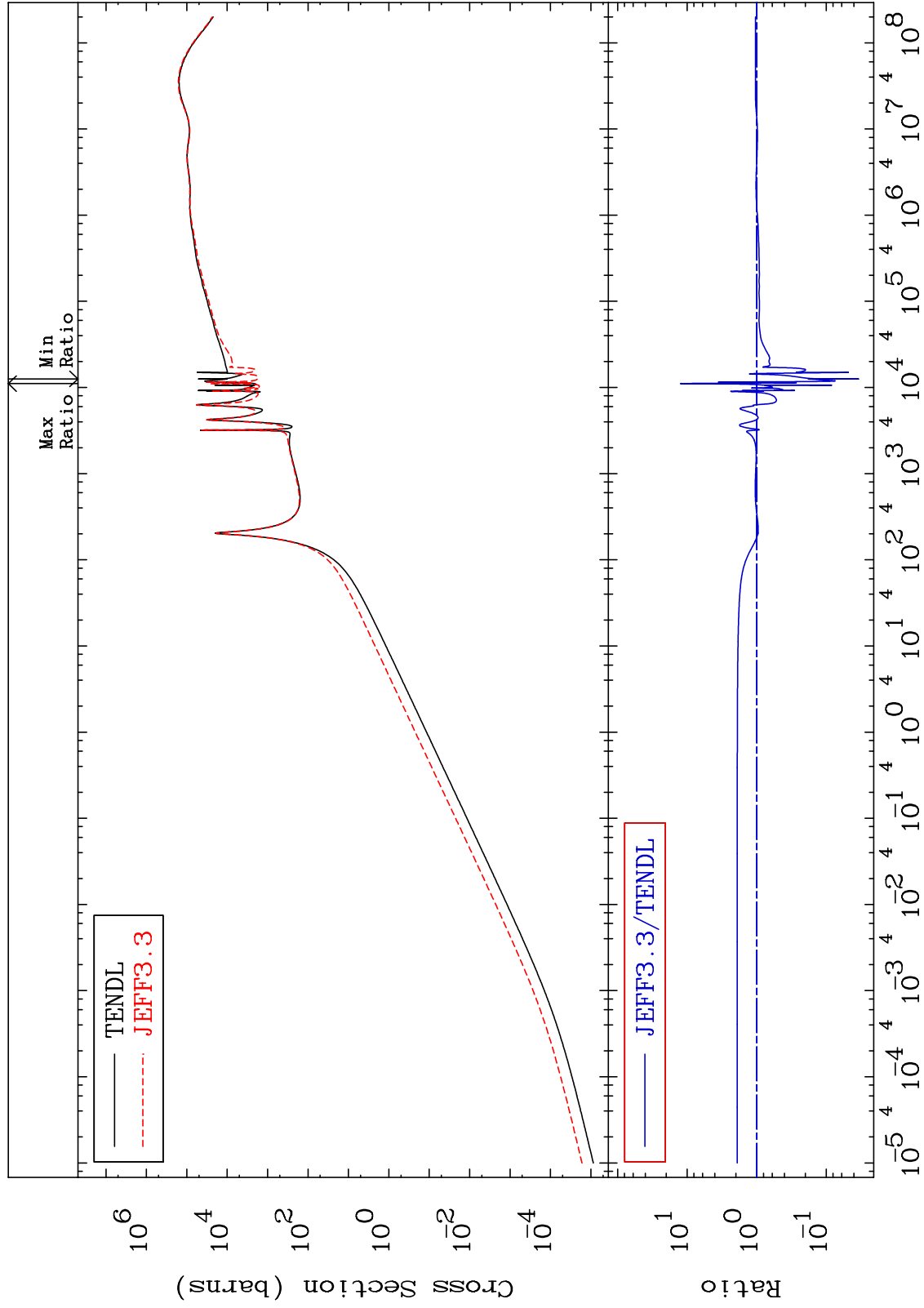
65

28-Ni-59

MAT 2828

Kerma elastic
Cross Section

28-Ni-59
-96.57 To 1151. %



66

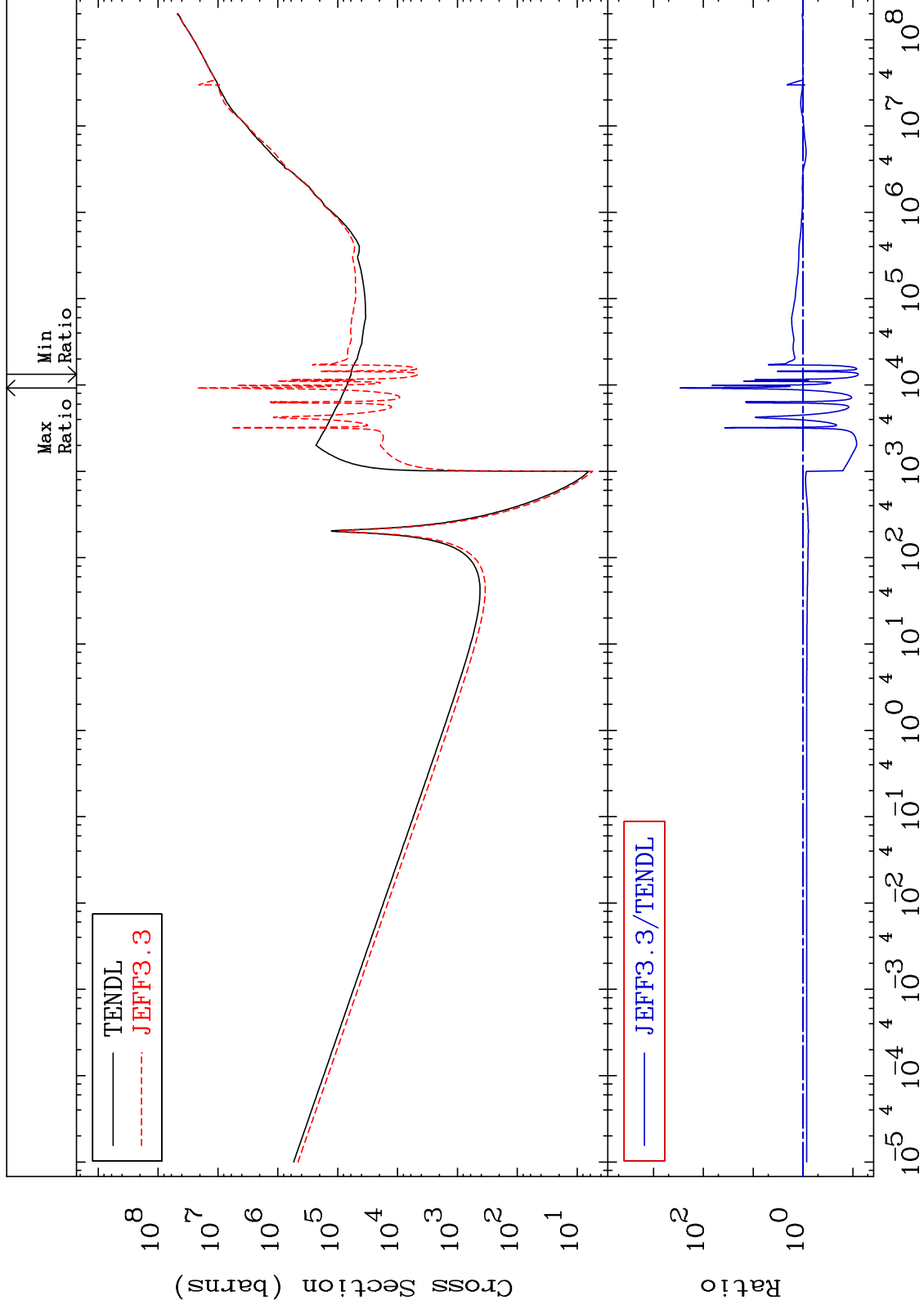
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma non-elastic (all but mt2)
Cross Section

28-Ni-59
-92.27 To 9999. %



67

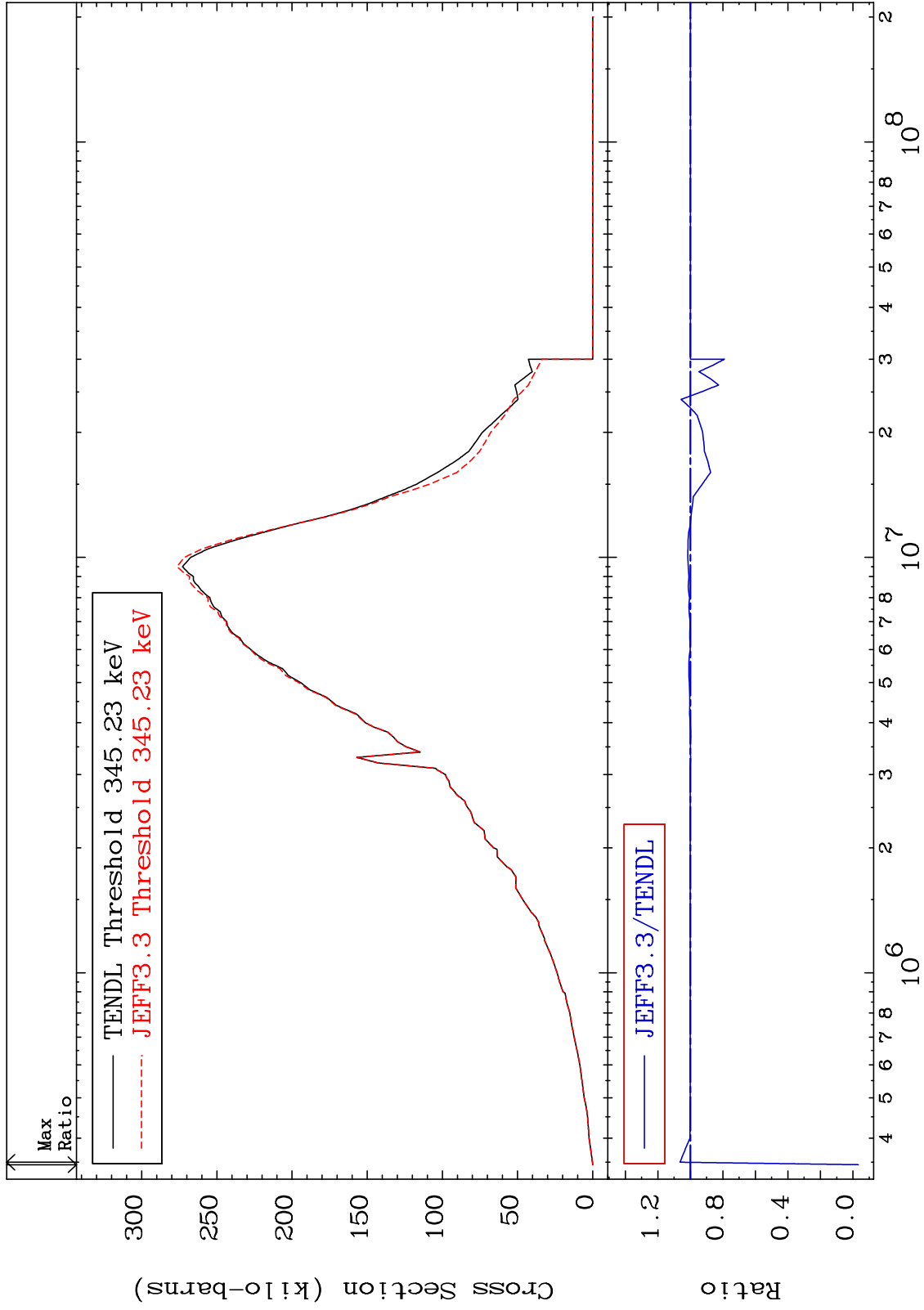
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma inelastic (mt51-91)
Cross Section

28-Ni-59
-103.4 To 6.354 %



68

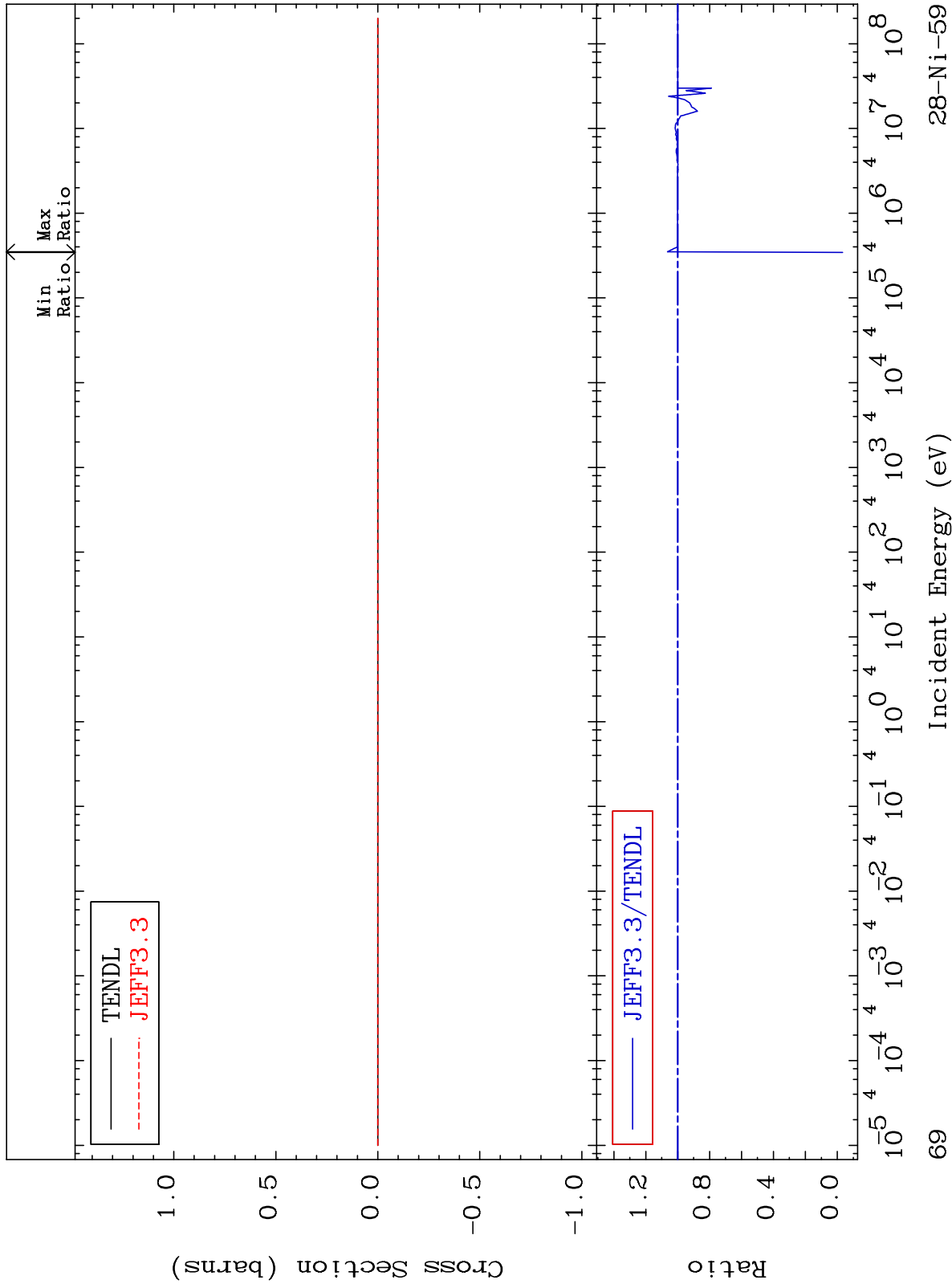
Incident Energy (eV)

28-Ni-59

MAT 2828

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

28-Ni-59
-103.4 To 6.354 %



69

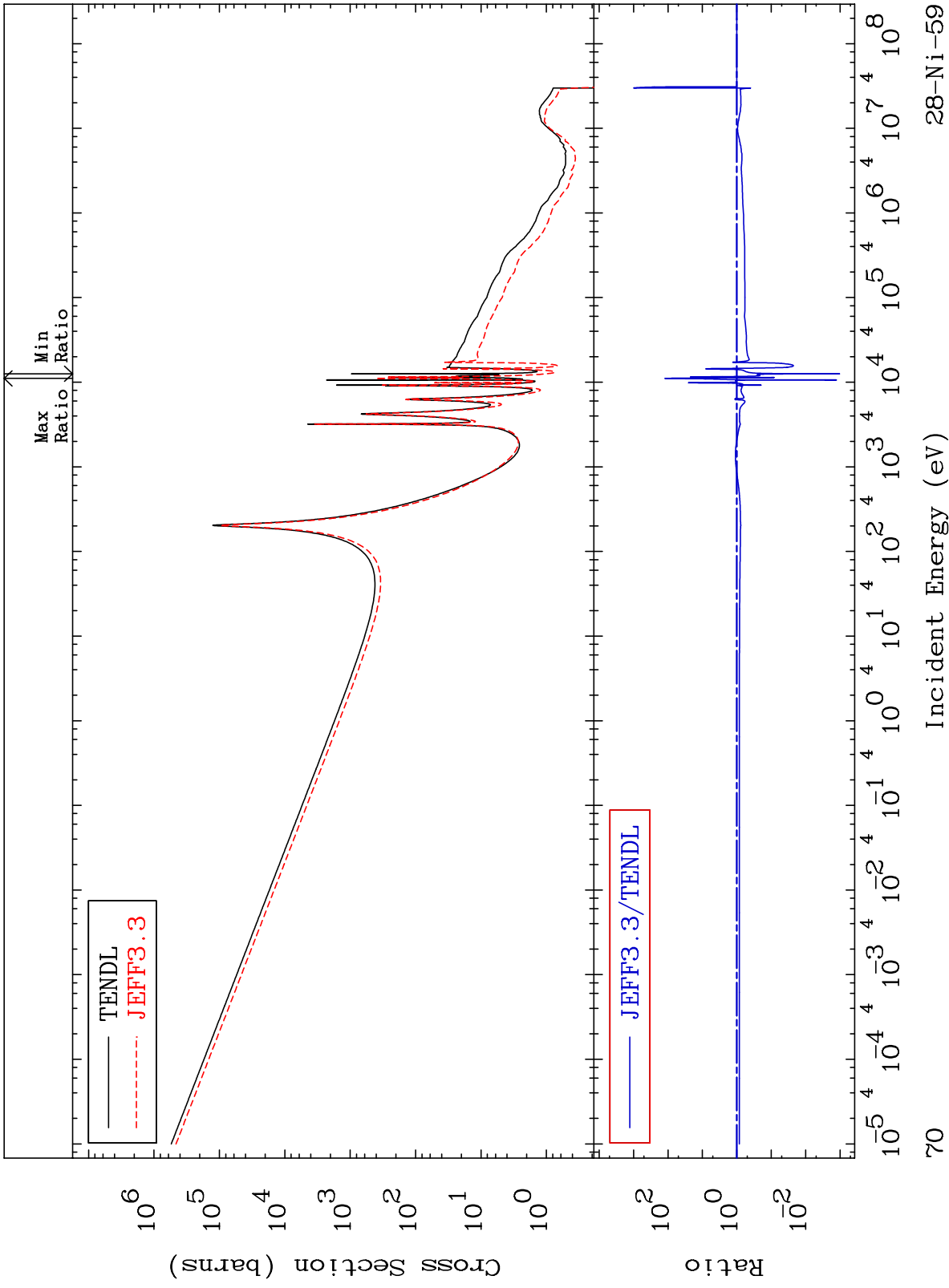
Incident Energy (eV)

28-Ni-59

MAT 2828

Kerma capture (mt102)
Cross Section

28-Ni-59
-99.90 To 9999. %



70

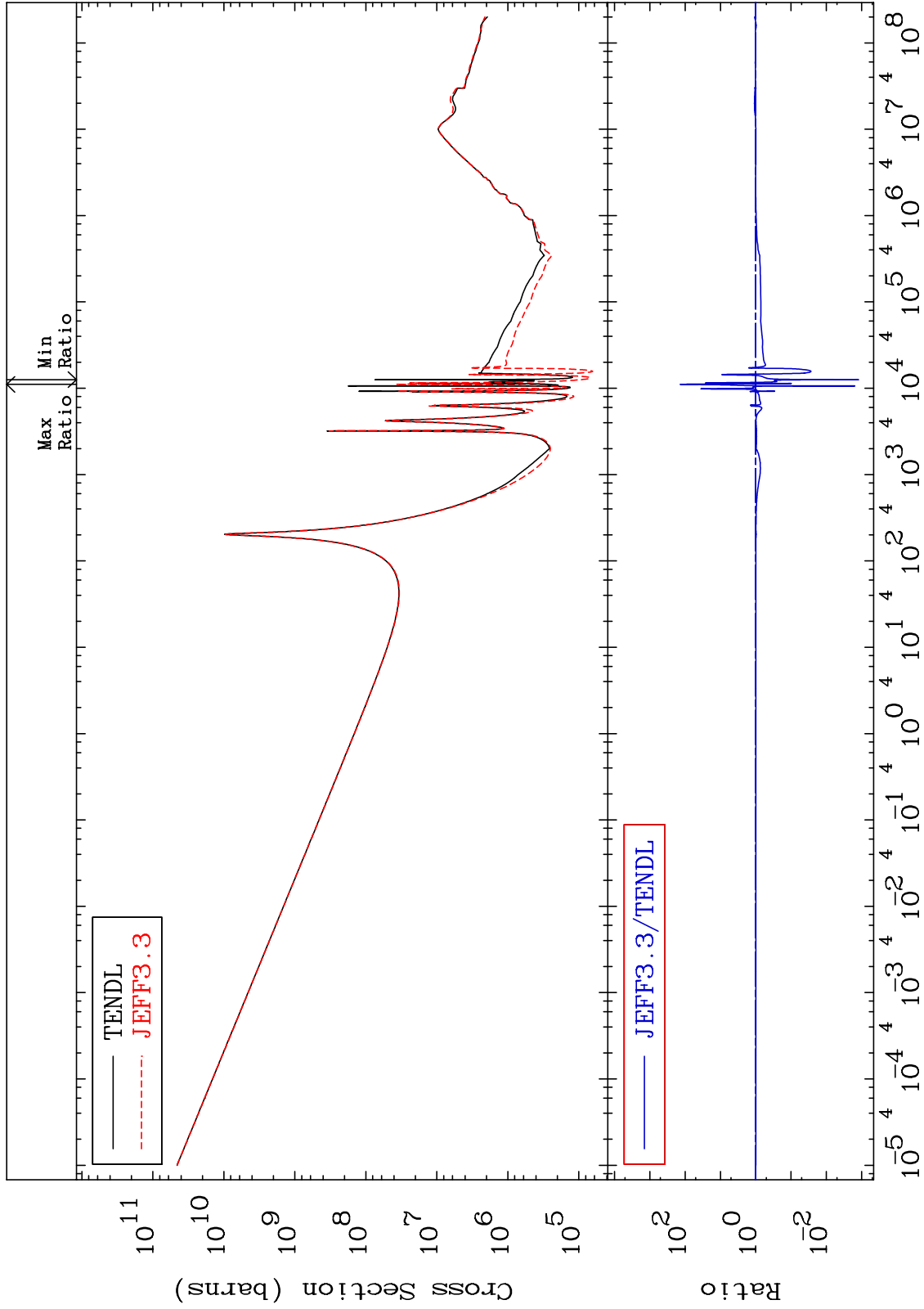
Incident Energy (eV)

28-Ni-59

MAT 2828

Total photon (eV-barns)
Cross Section

28-Ni-59
-99.88 To 9999. %



71

Incident Energy (eV)

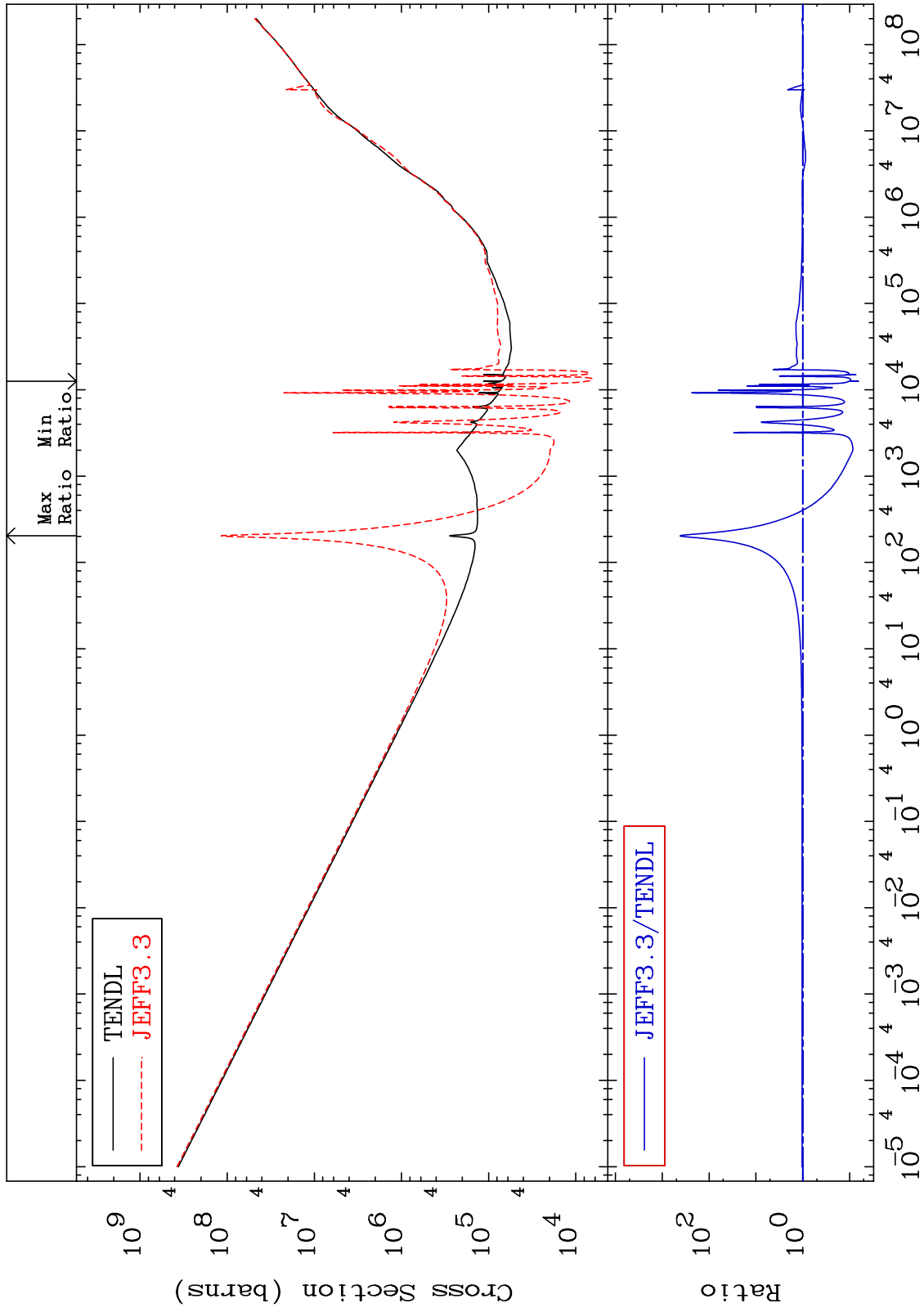
28-Ni-59

MAT 2828

Total kinematic kerma (high limit)
Cross Section

28-Ni-59

-93.52 To 9999. %



72

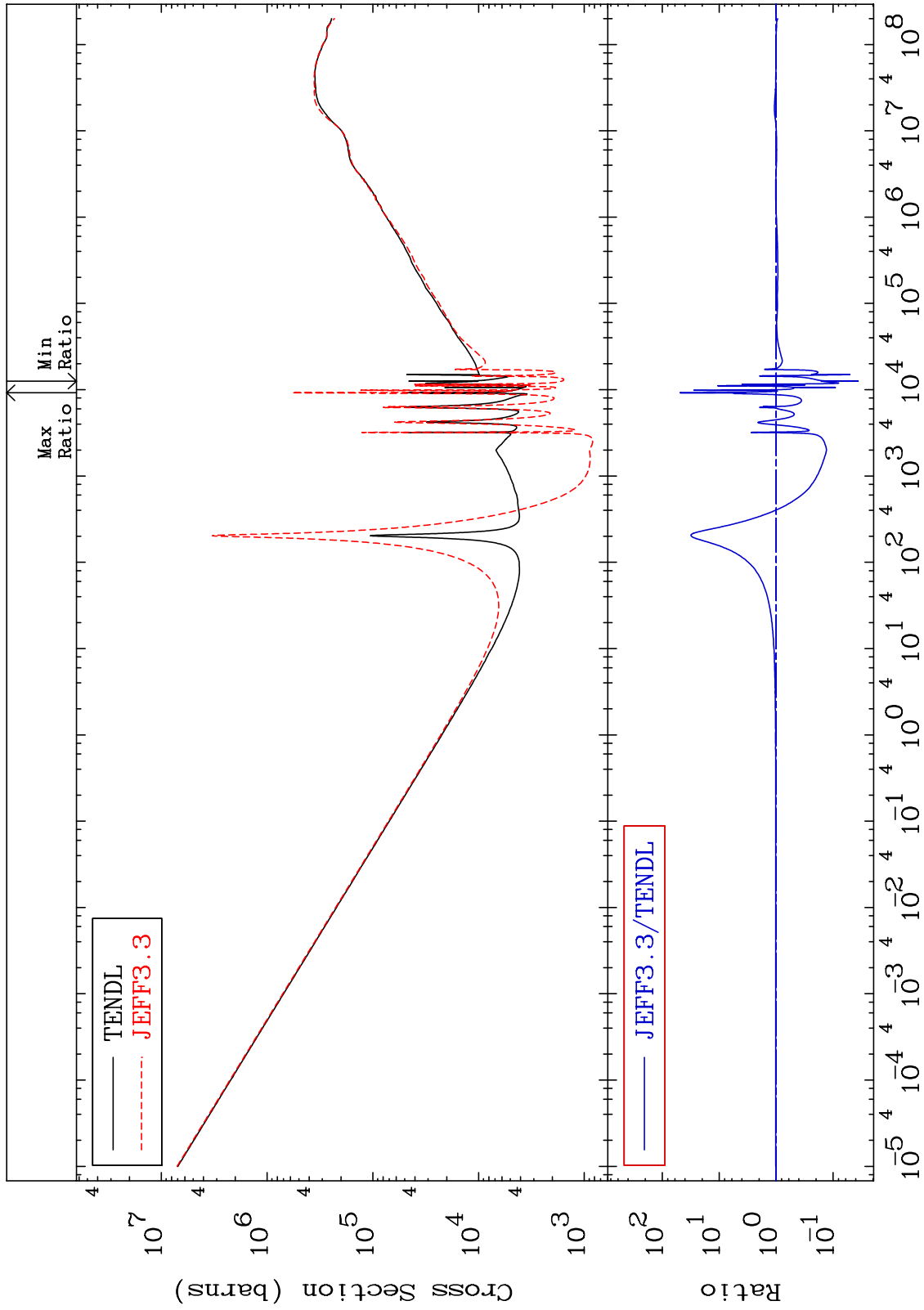
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa total (eV-barns)
Cross Section

28-Ni-59
-96.41 To 4786. %



73

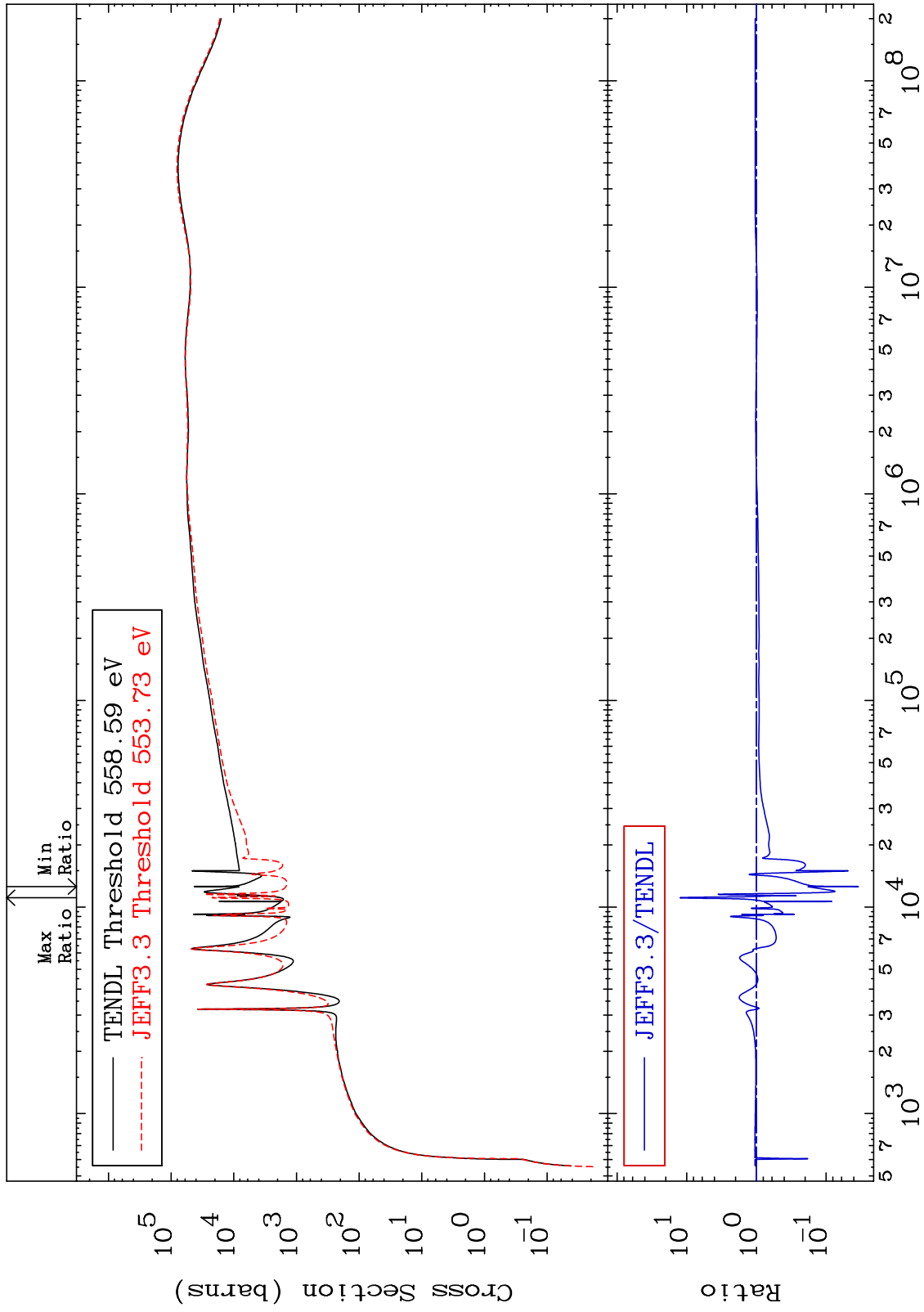
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa elastic (mt2)
Cross Section

28-Ni-59
-96.57 To 1151. %



74

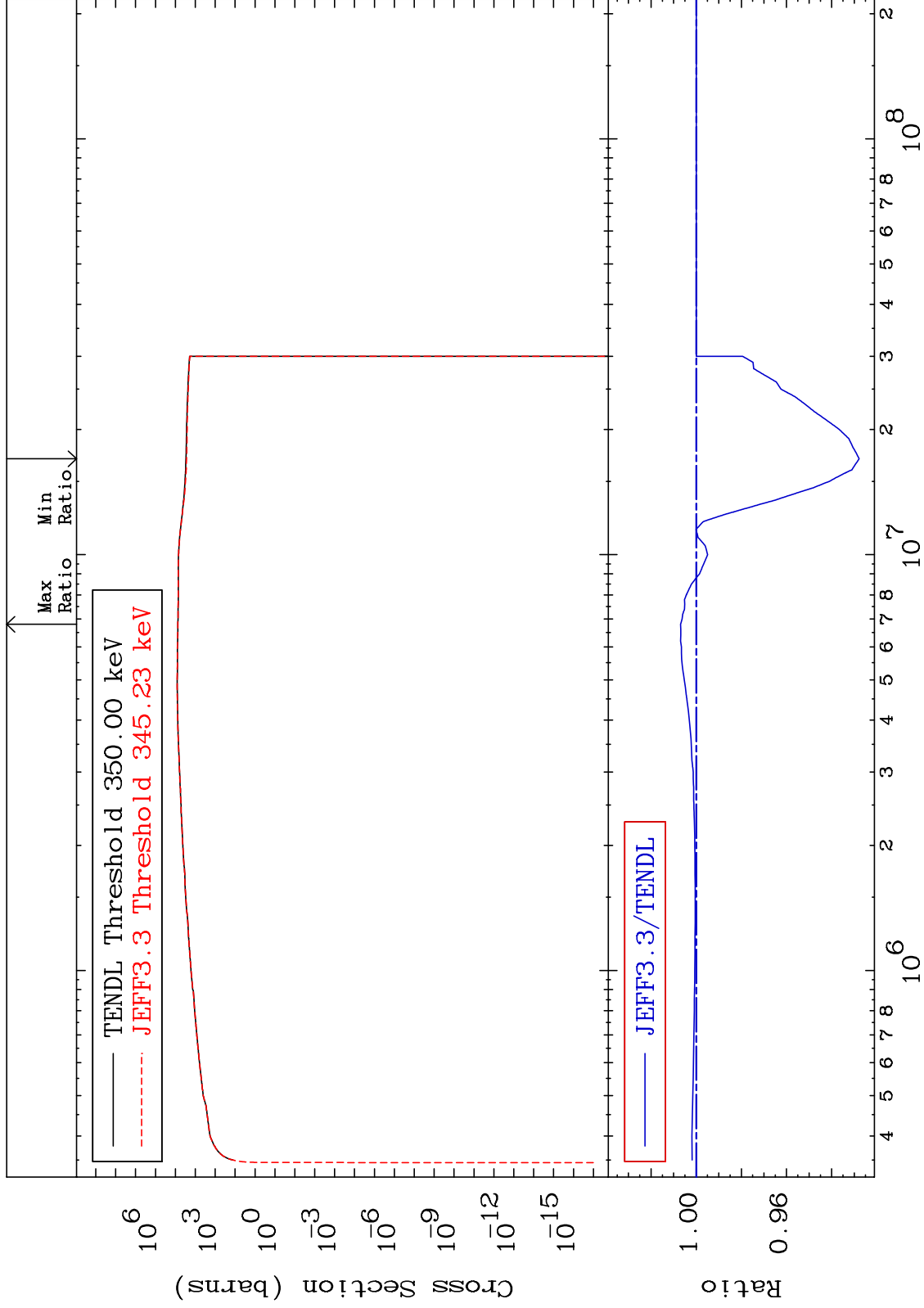
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa inelastic (mt51-91)
Cross Section

28-Ni-59
-7.218 To 0.690 %



75

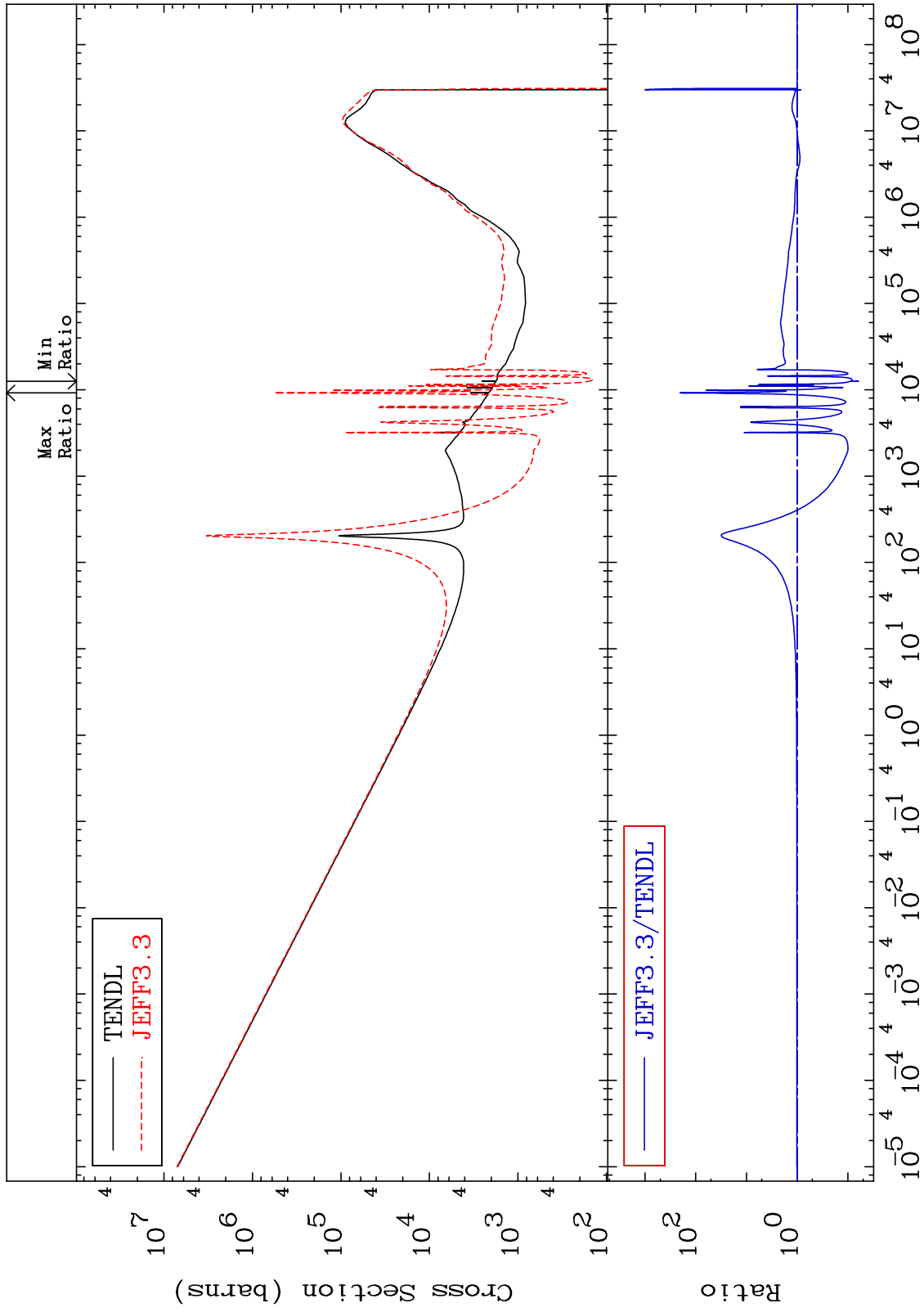
Incident Energy (eV)

28-Ni-59

MAT 2828

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-59
-93.80 To 9999. %



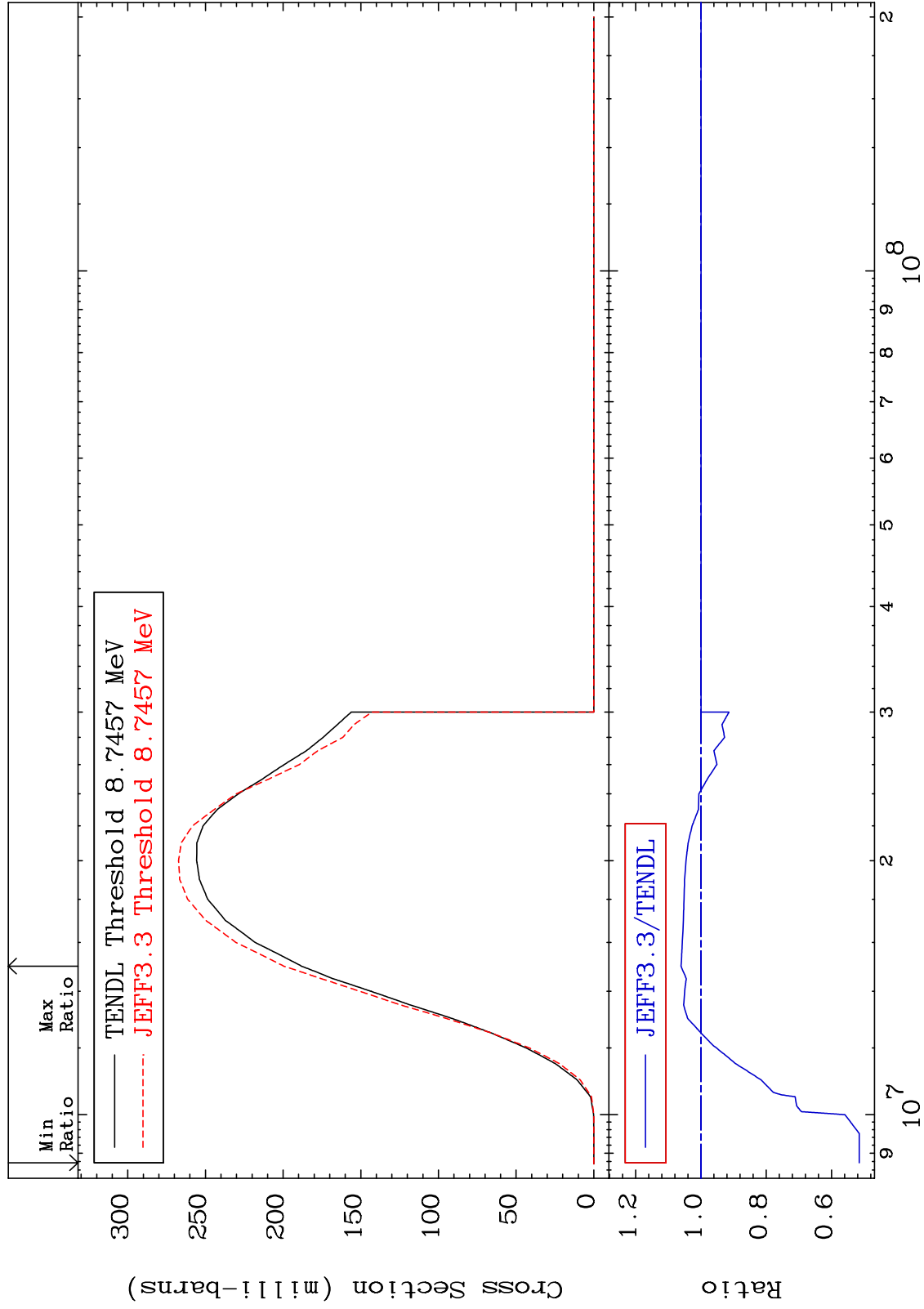
76

Incident Energy (eV)

28-Ni-59

MAT 2828

(n, n') p:27-Co-58g 28-Ni-59
Radionuclide Production Cross Section -48.47 To 6.083 %



77

Incident Energy (eV)

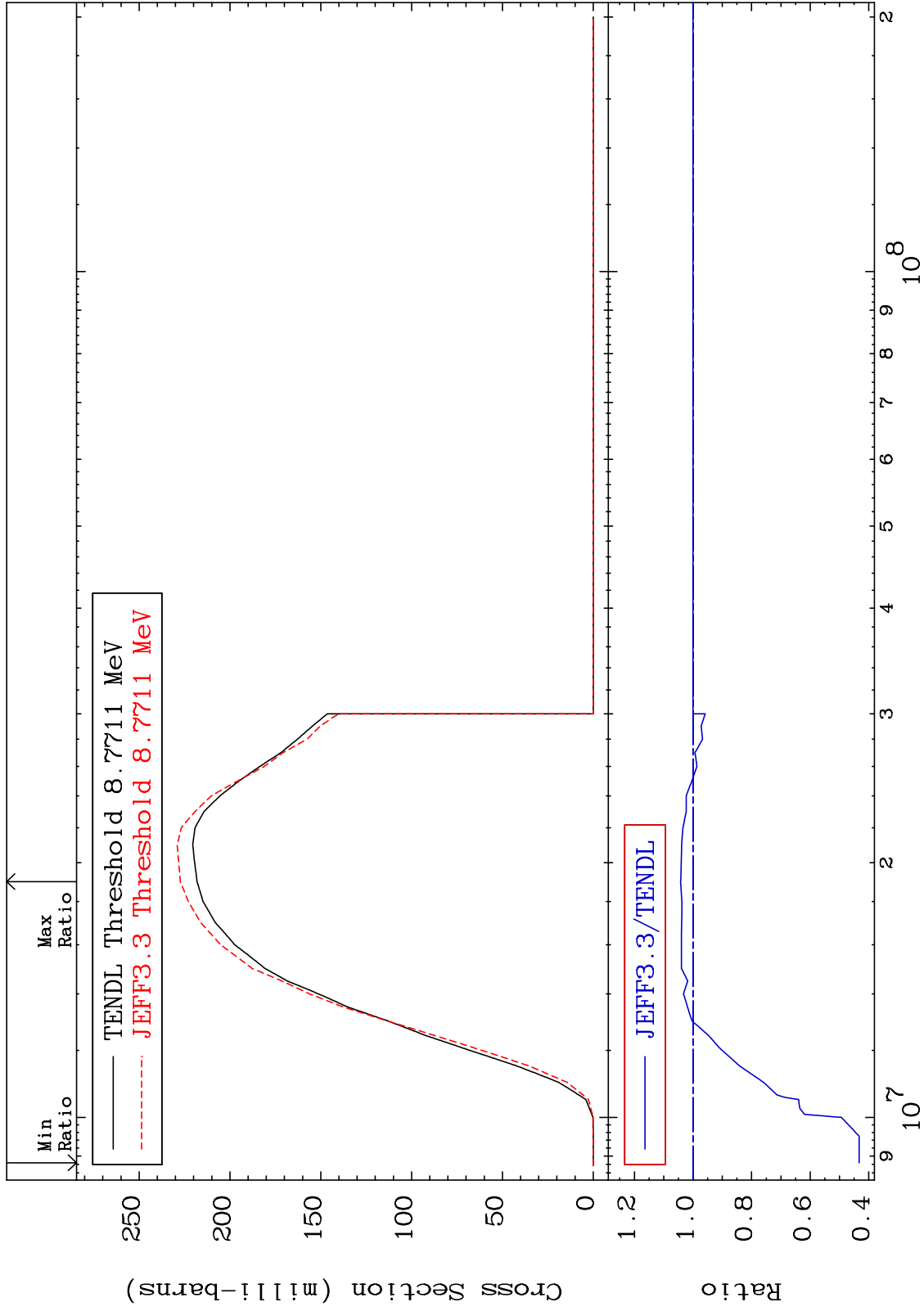
28-Ni-59

MAT 2828

(n, n') p:27-Co-58m1

28-Ni-59

Radionuclide Production Cross Section -56.71 To 4.225 %



78

Incident Energy (eV)

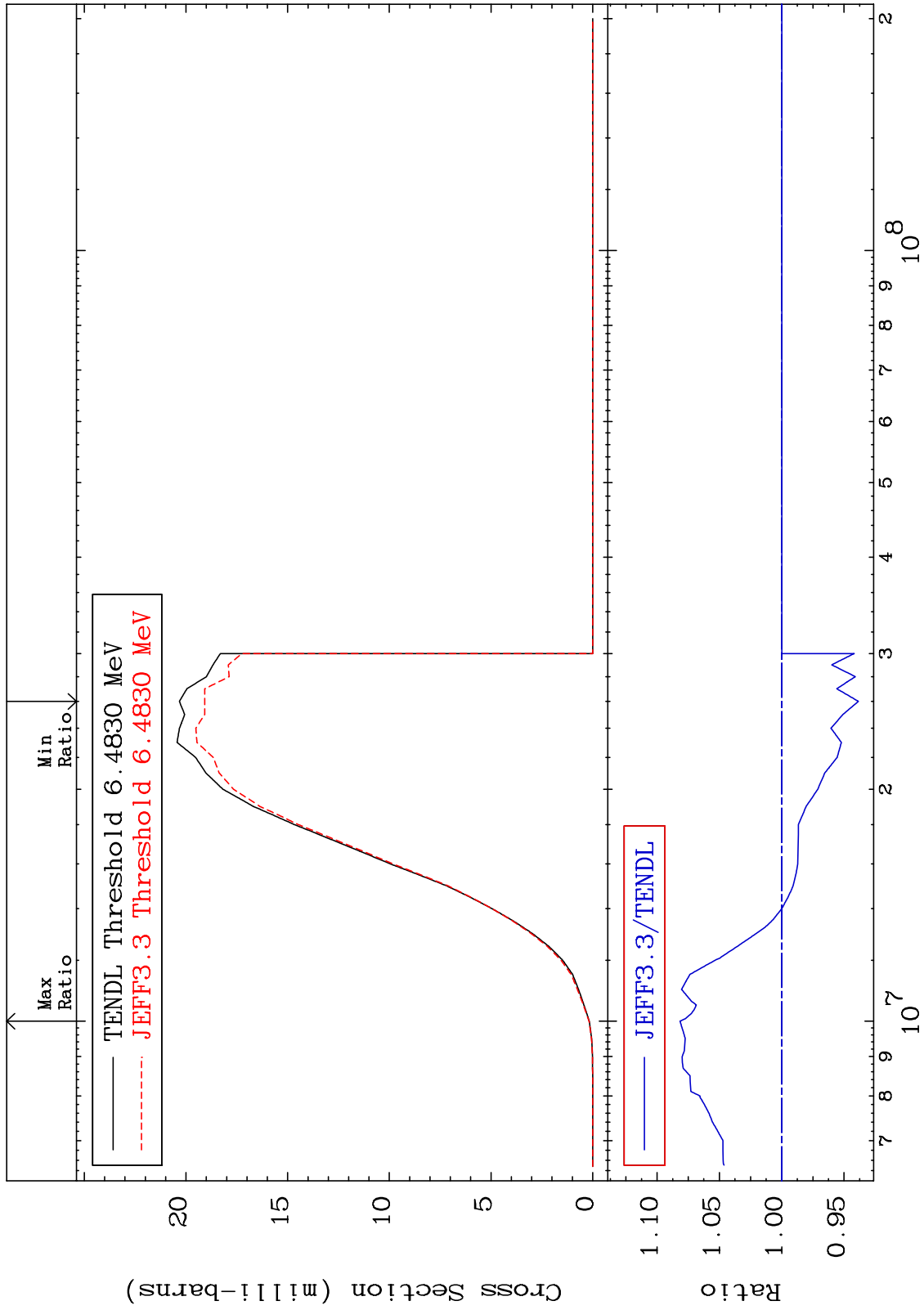
28-Ni-59

MAT 2828

(n, d) : 27-Co-58g

28-Ni-59

Radionuclide Production Cross Section -6.151 To 8.159 %



79

Incident Energy (eV)

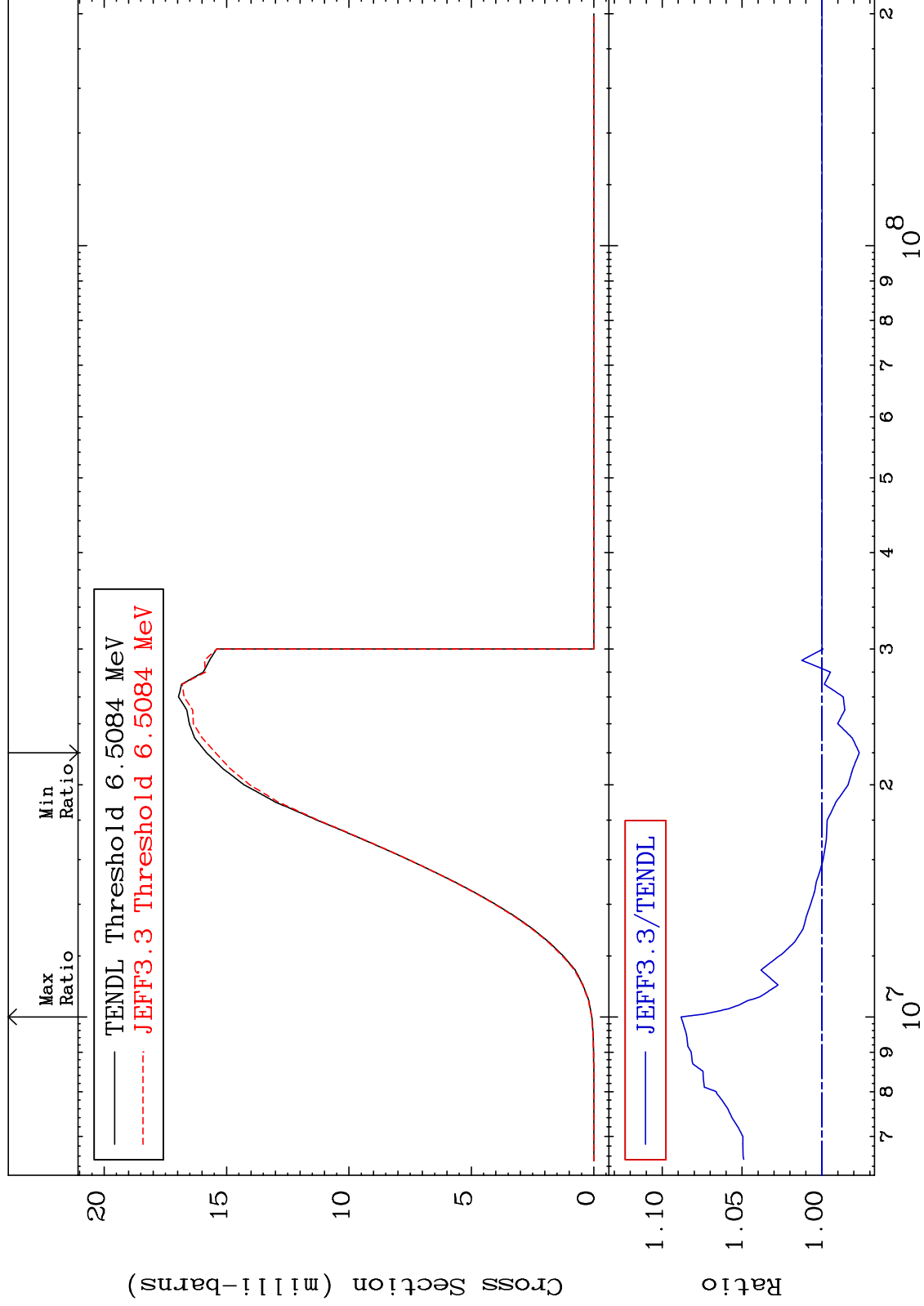
28-Ni-59

MAT 2828

(n,d):27-Co-58m1

28-Ni-59

Radionuclide Production Cross Section -2.341 To 8.822 %



80

Incident Energy (eV)

28-Ni-59