

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

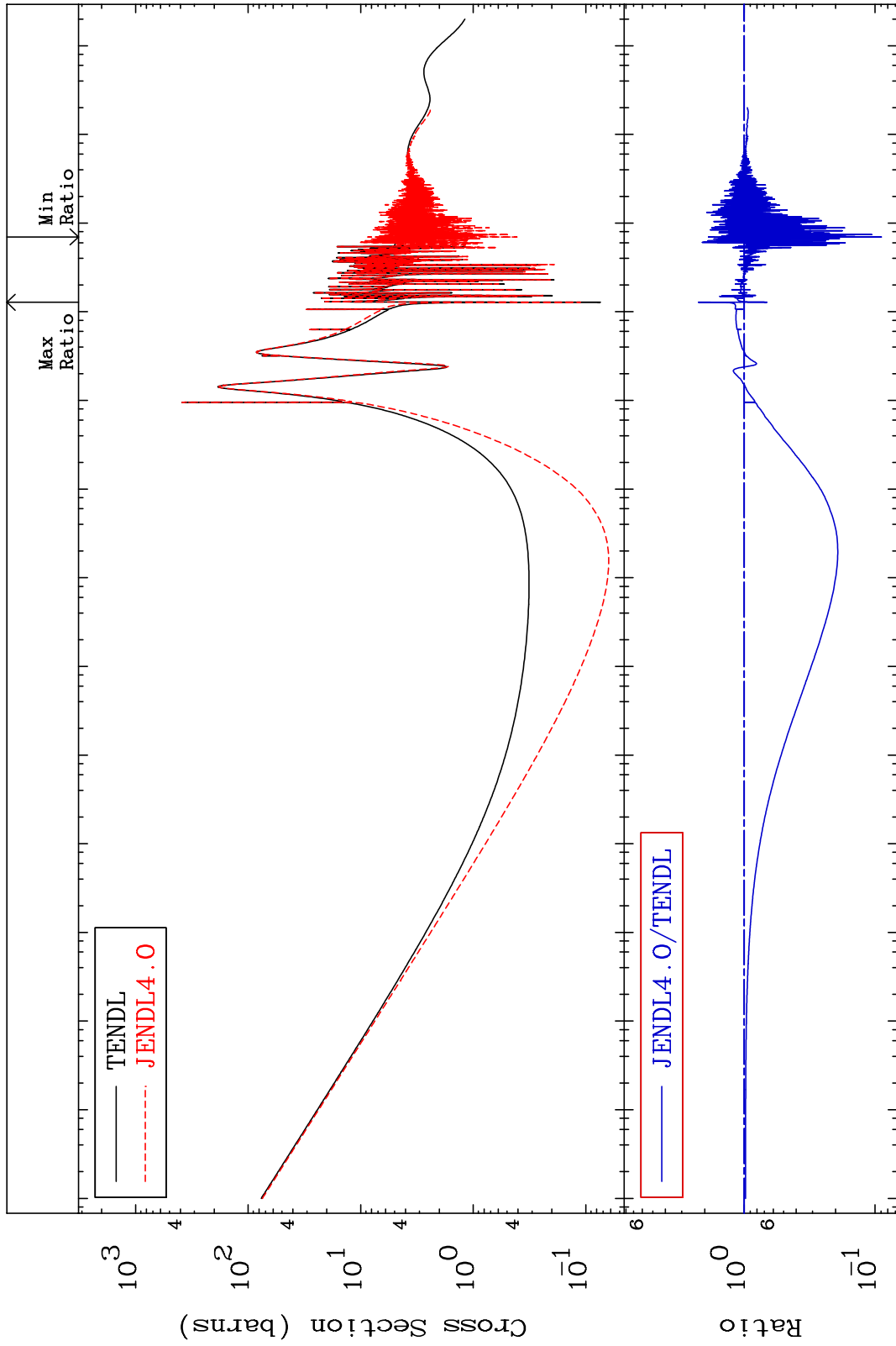
MAT 2843

Total

Cross Section

28-Ni-64

-91.08 To 124.1 %



Incident Energy (eV)

28-Ni-64

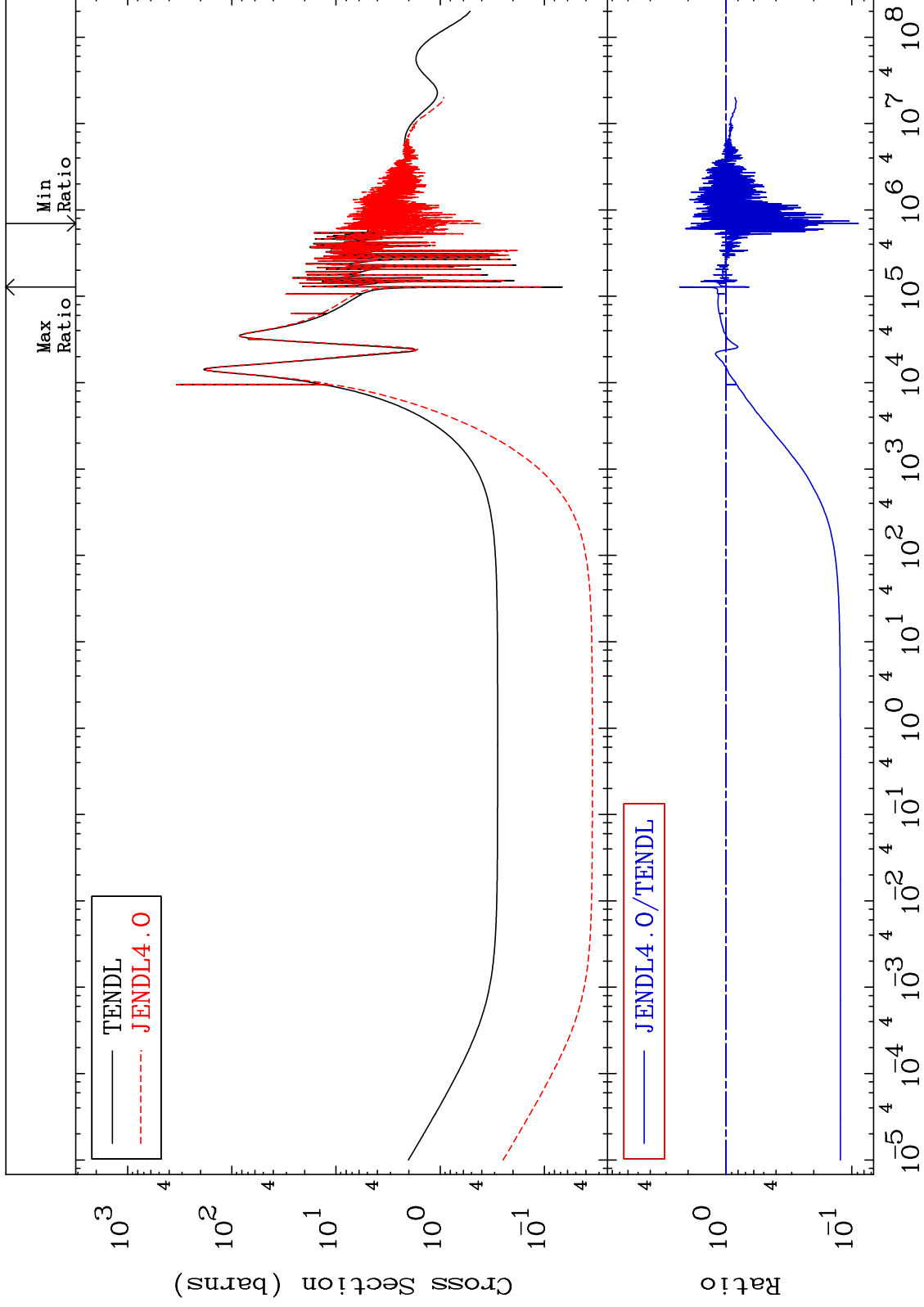
MAT 2843

Elastic

Cross Section

28-Ni-64

-91.14 To 132.7 %

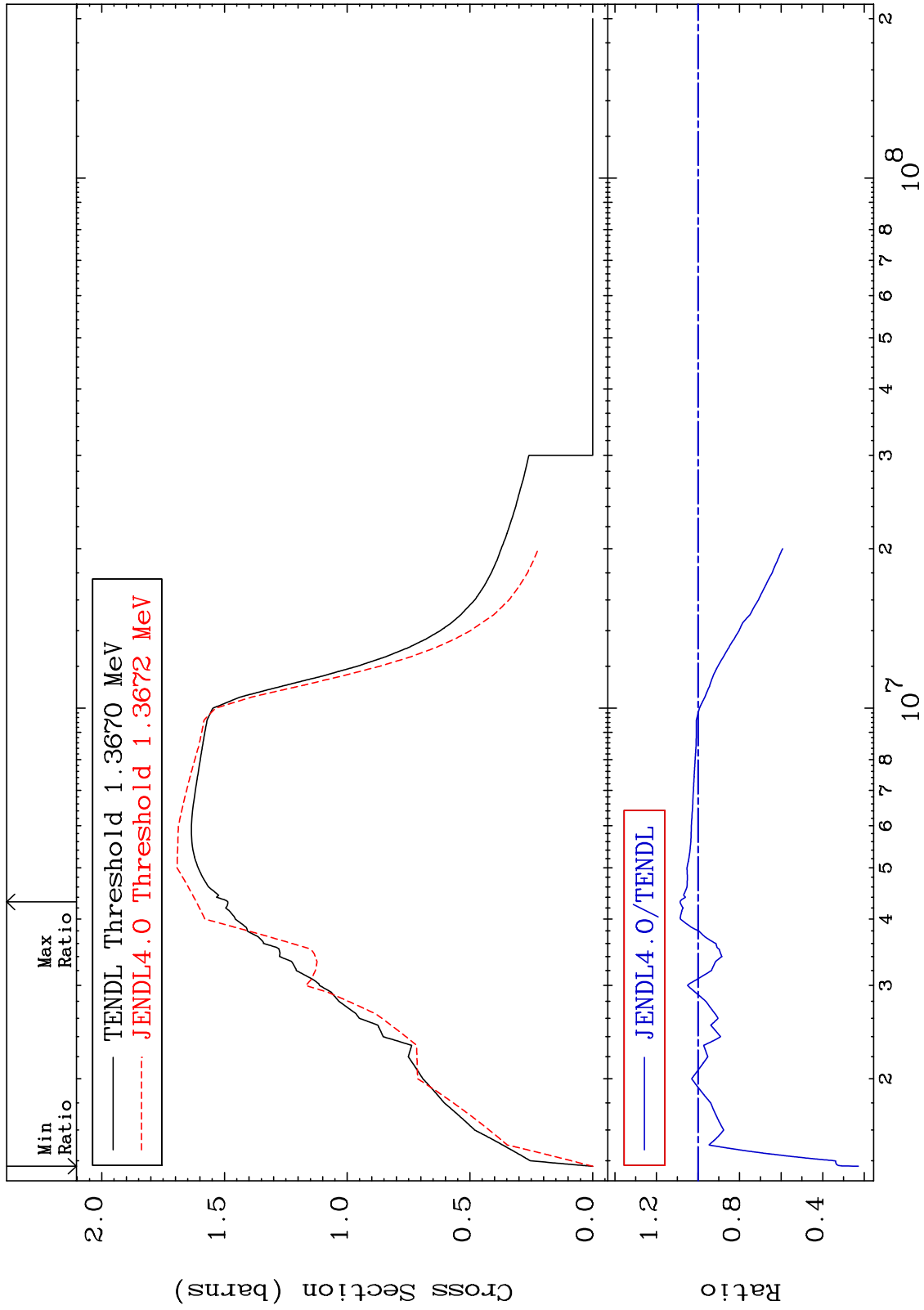


Incident Energy (eV)

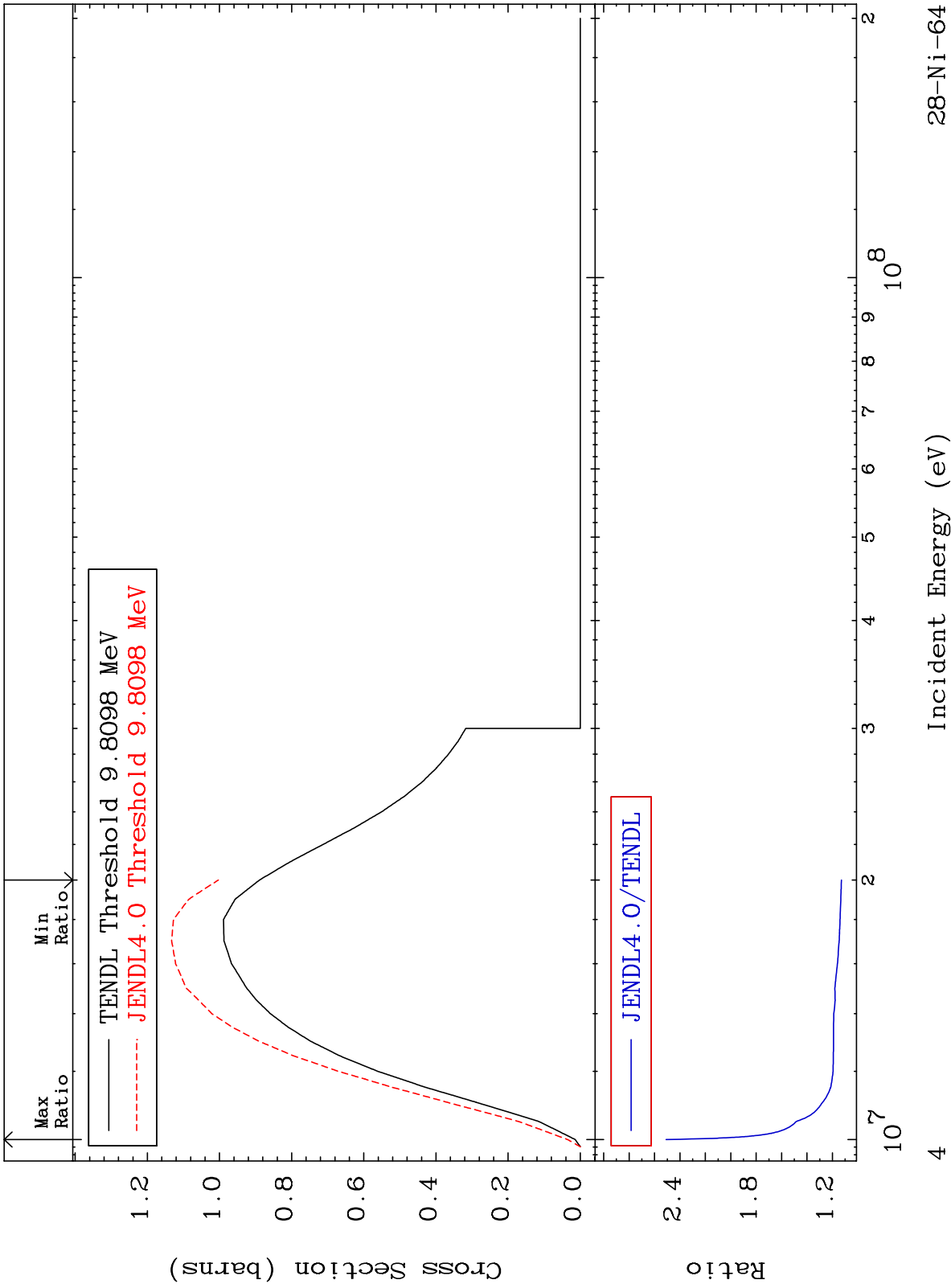
28-Ni-64

2

MAT 2843 Inelastic Cross Section 28-Ni-64 -77.14 To 8.656 %



MAT 2843 (n,2n) Cross Section 28-Ni-64 To 150.9 % 12.85



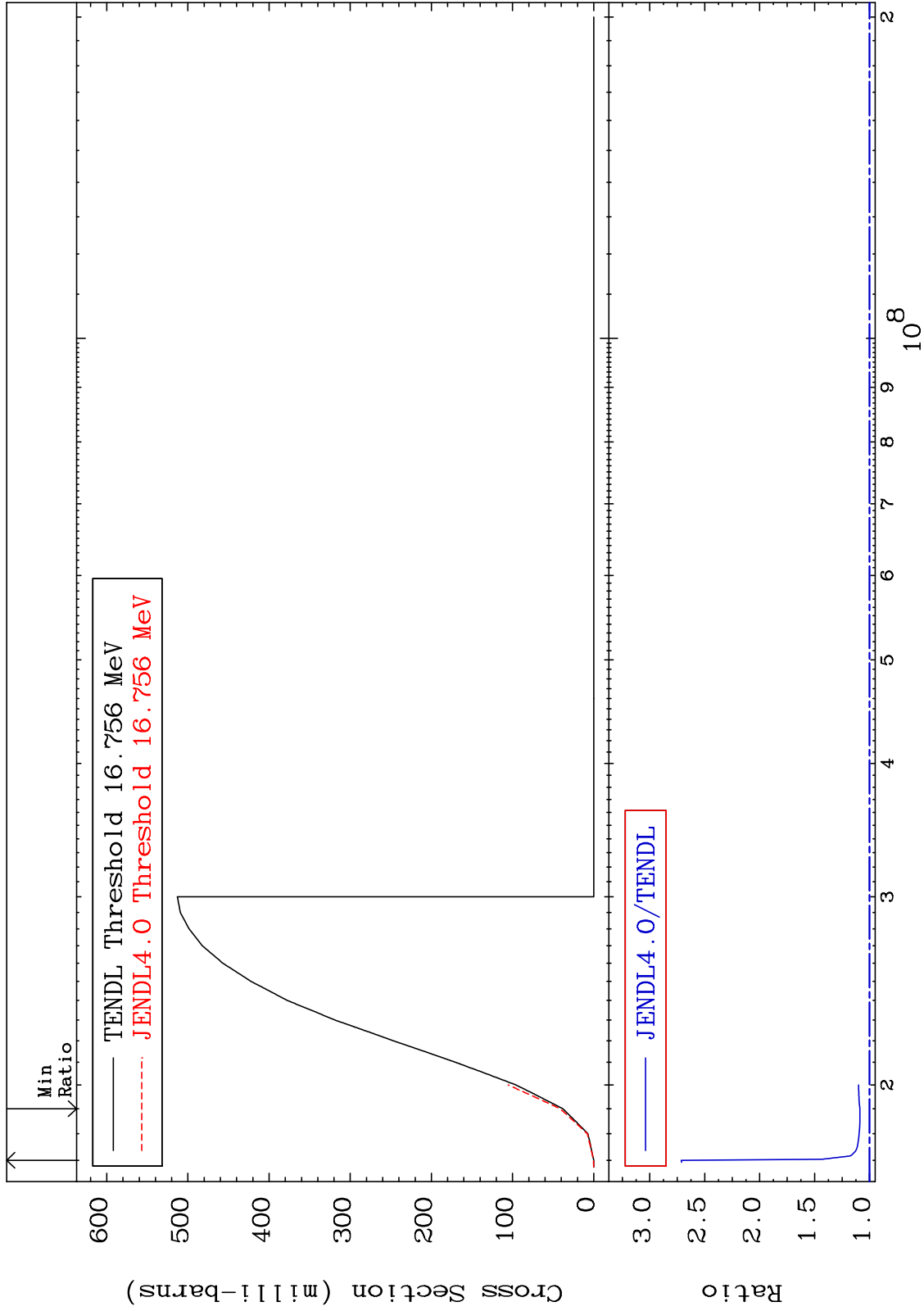
MAT 2843

(n,3n)

²⁸Ni-64

Cross Section

8.784 To 171.4 %



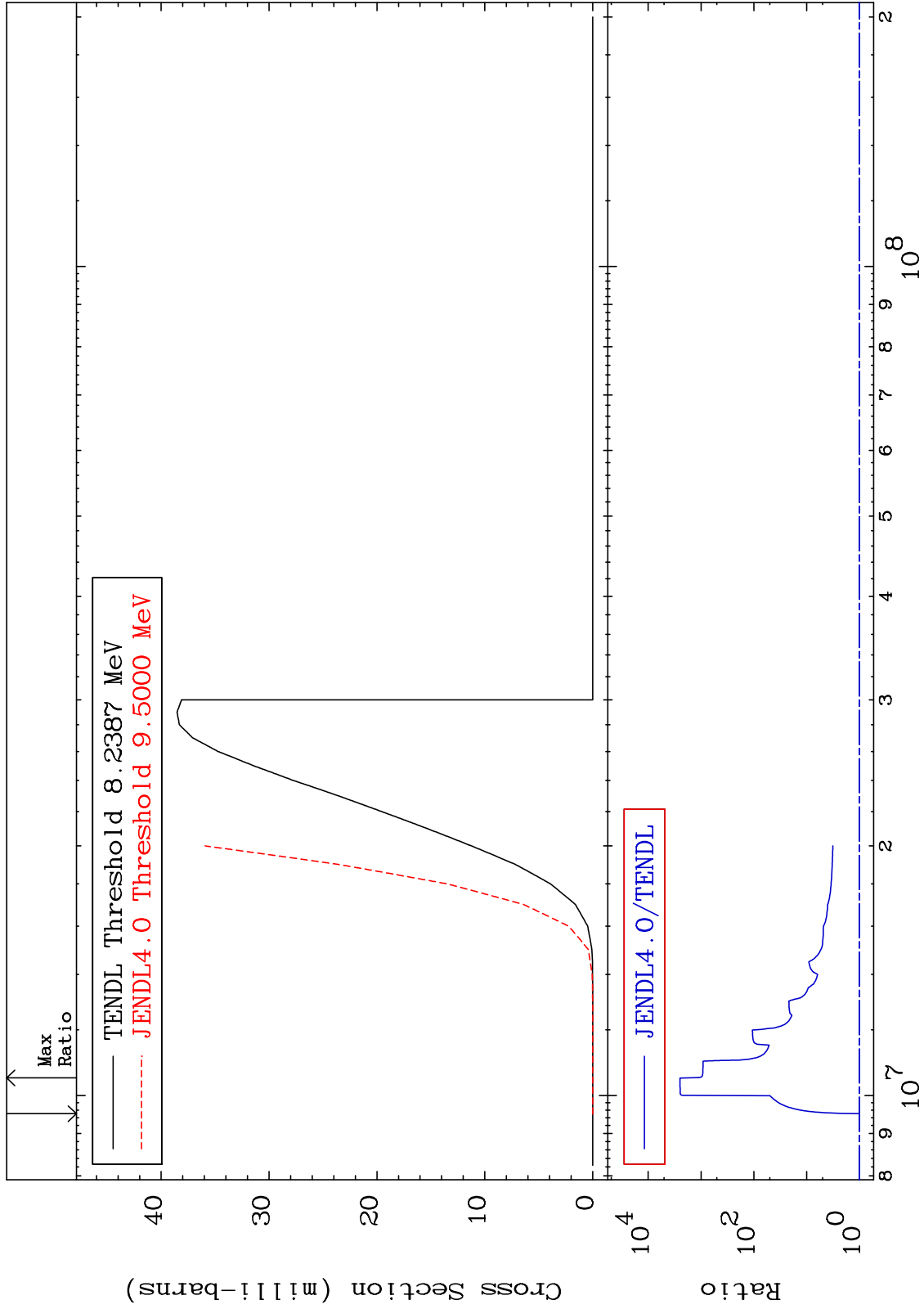
MAT 2843

(n,n') α

28-Ni-64

Cross Section

4.850 To 9999. %



28-Ni-64

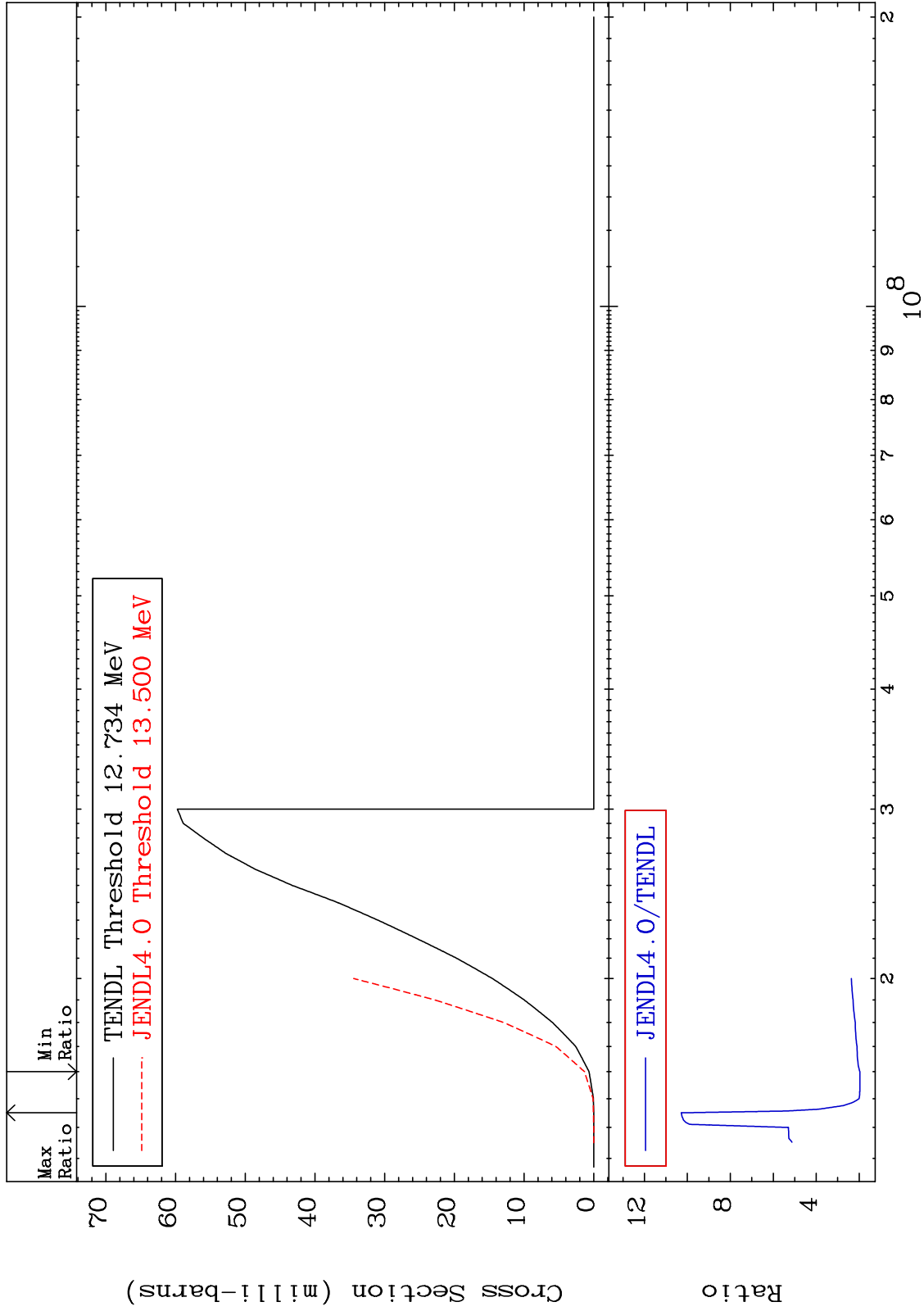
Incident Energy (eV)

6

MAT 2843

(n,n') p
Cross Section

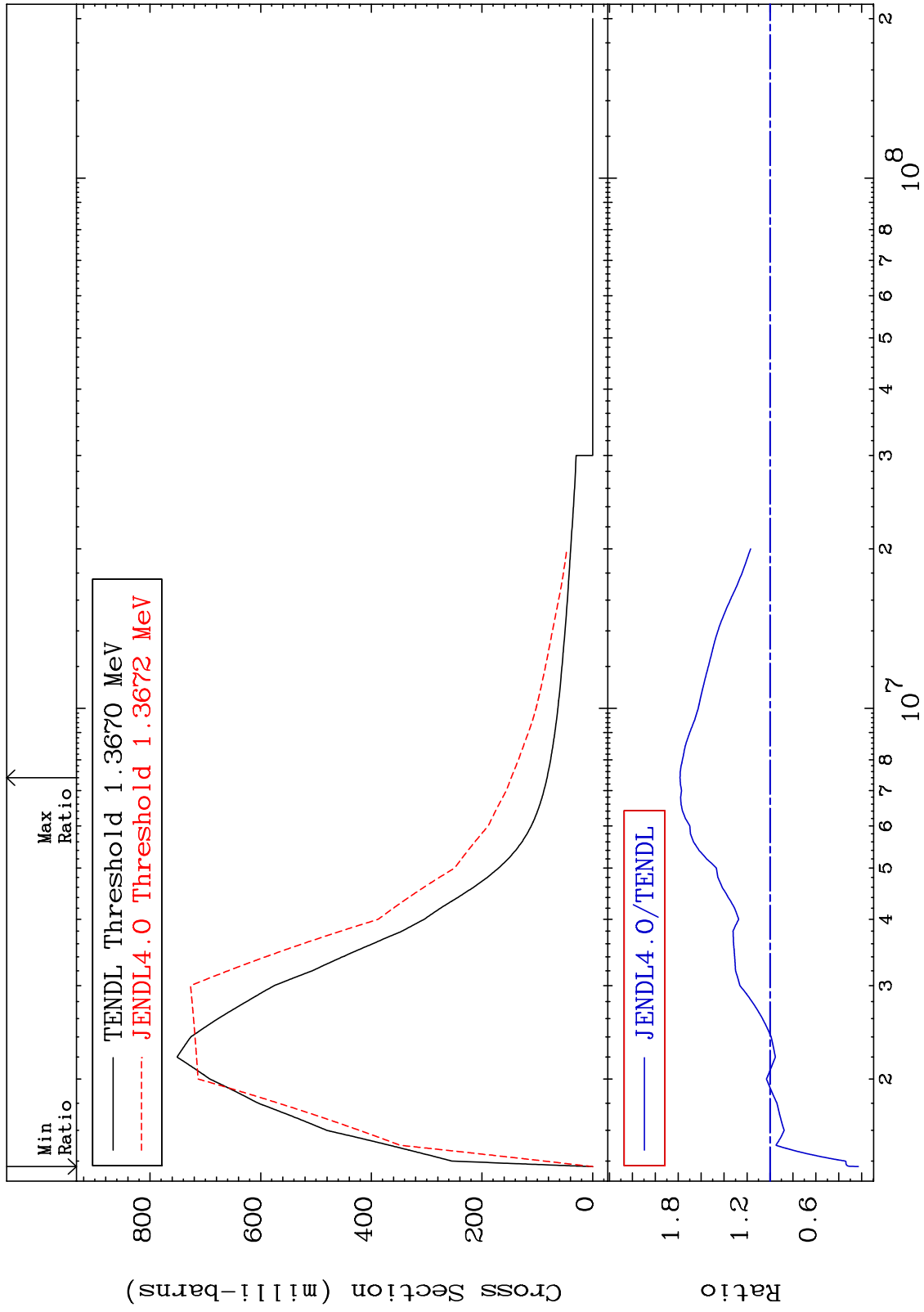
28-Ni-64
96.46 To 928.7 %



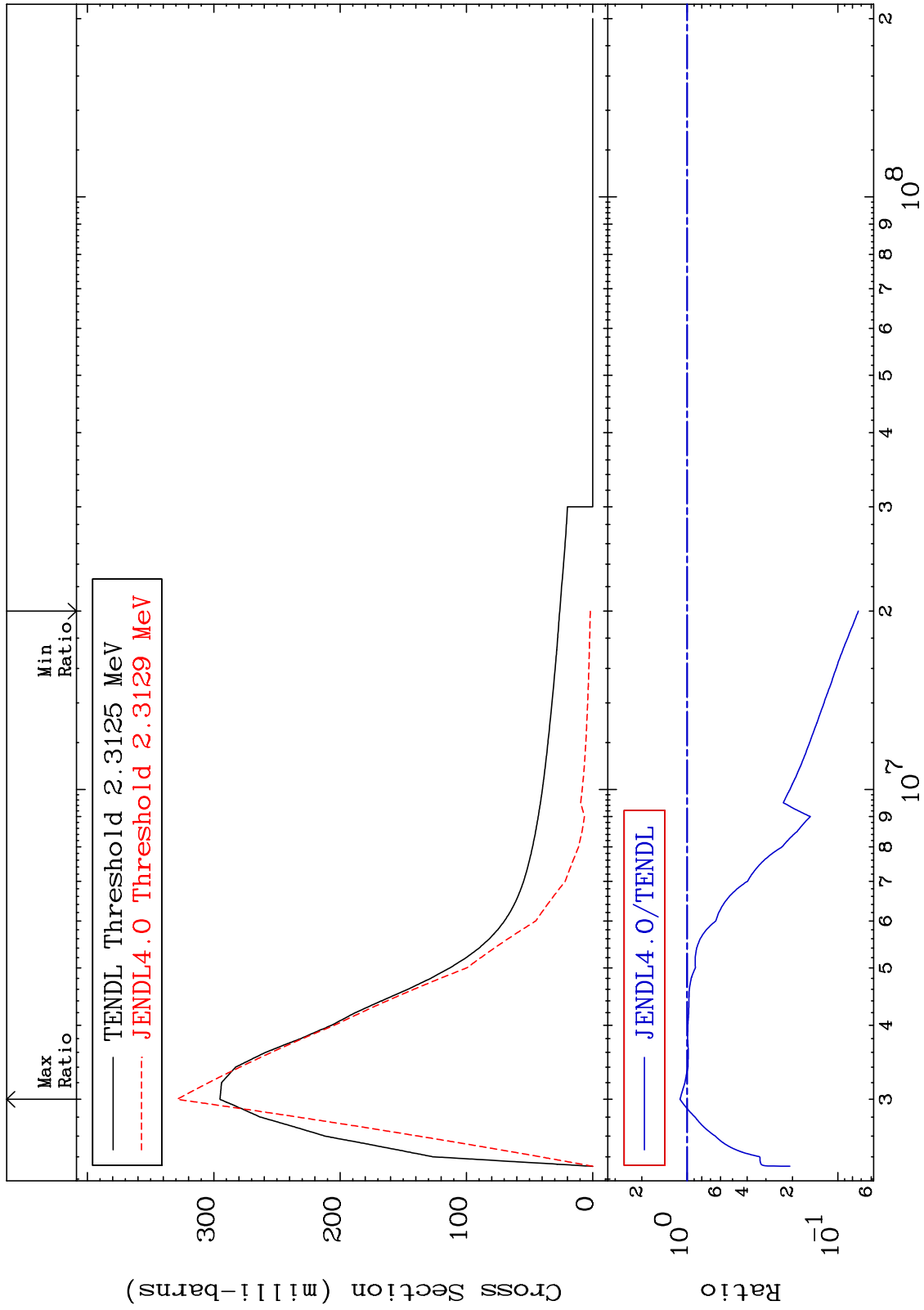
MAT 2843

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

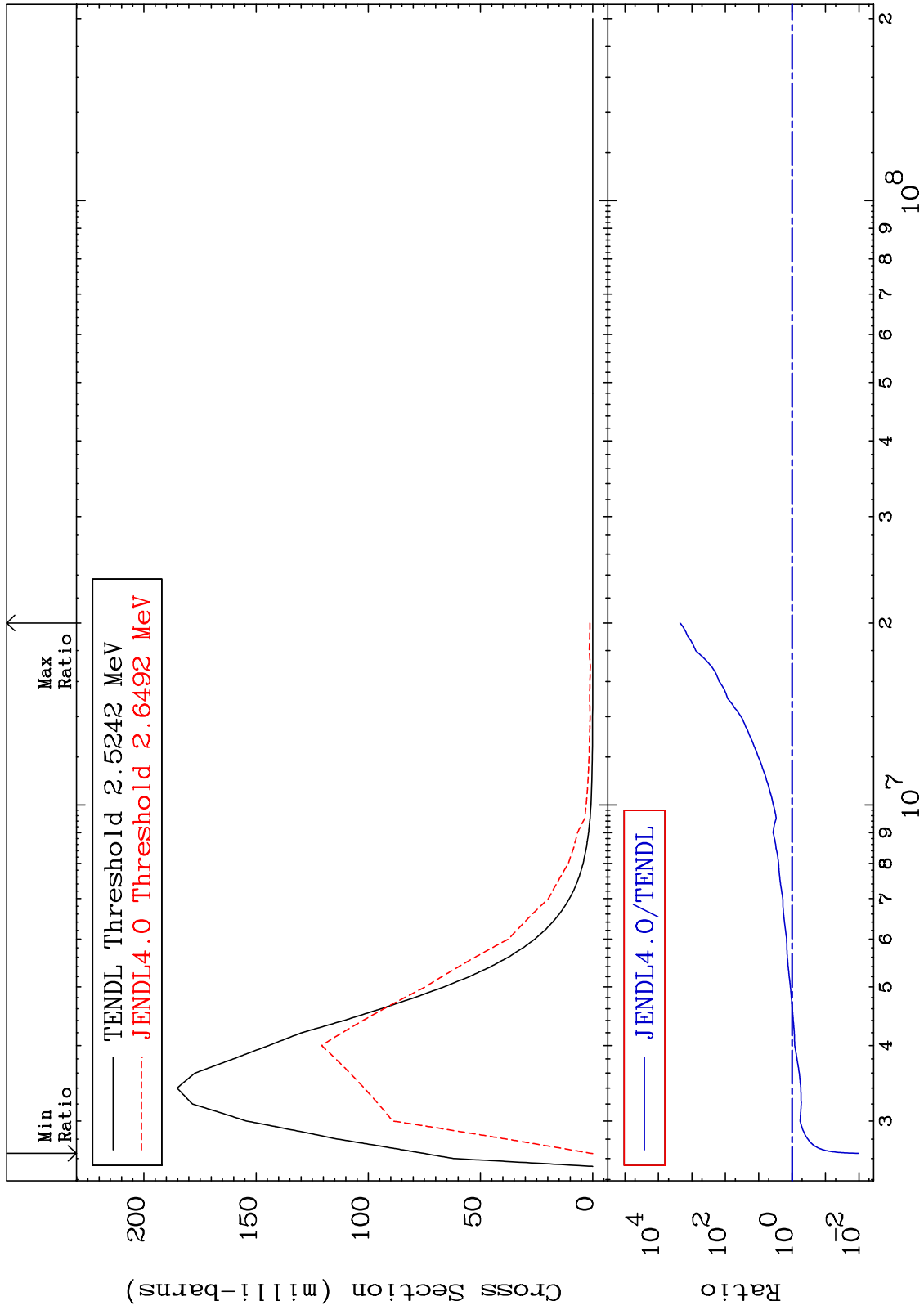
28-Ni-64
-77.14 To 78.46 %



MAT 2843 MT= 52 (n,n') Level Cross Section -92.70 To 11.52 % 28-Ni-64

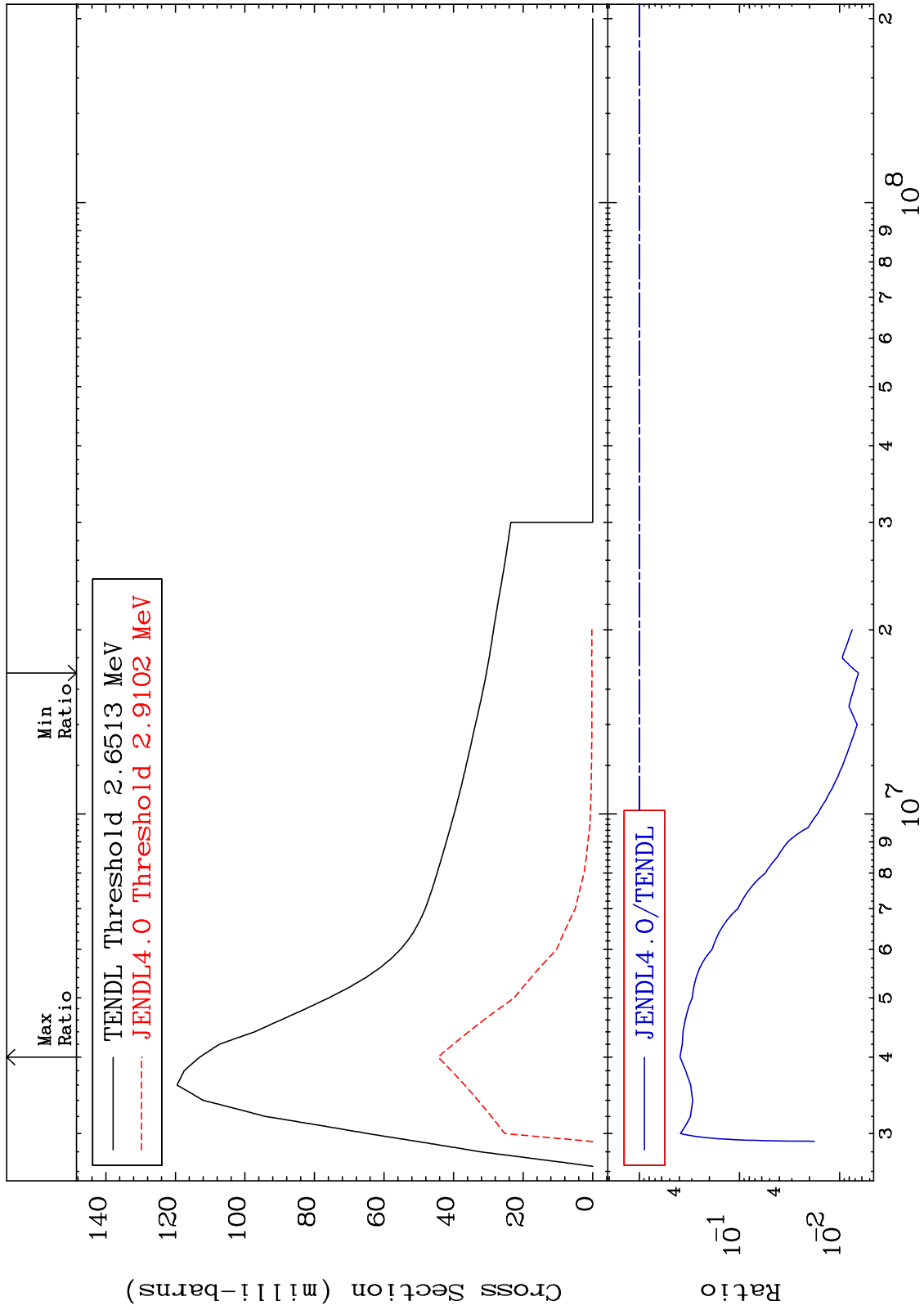


MAT 2843 MT= 53 (n,n') Level 28-Ni-64
Cross Section -98.96 To 9999. %



10 Incident Energy (eV) 28-Ni-64

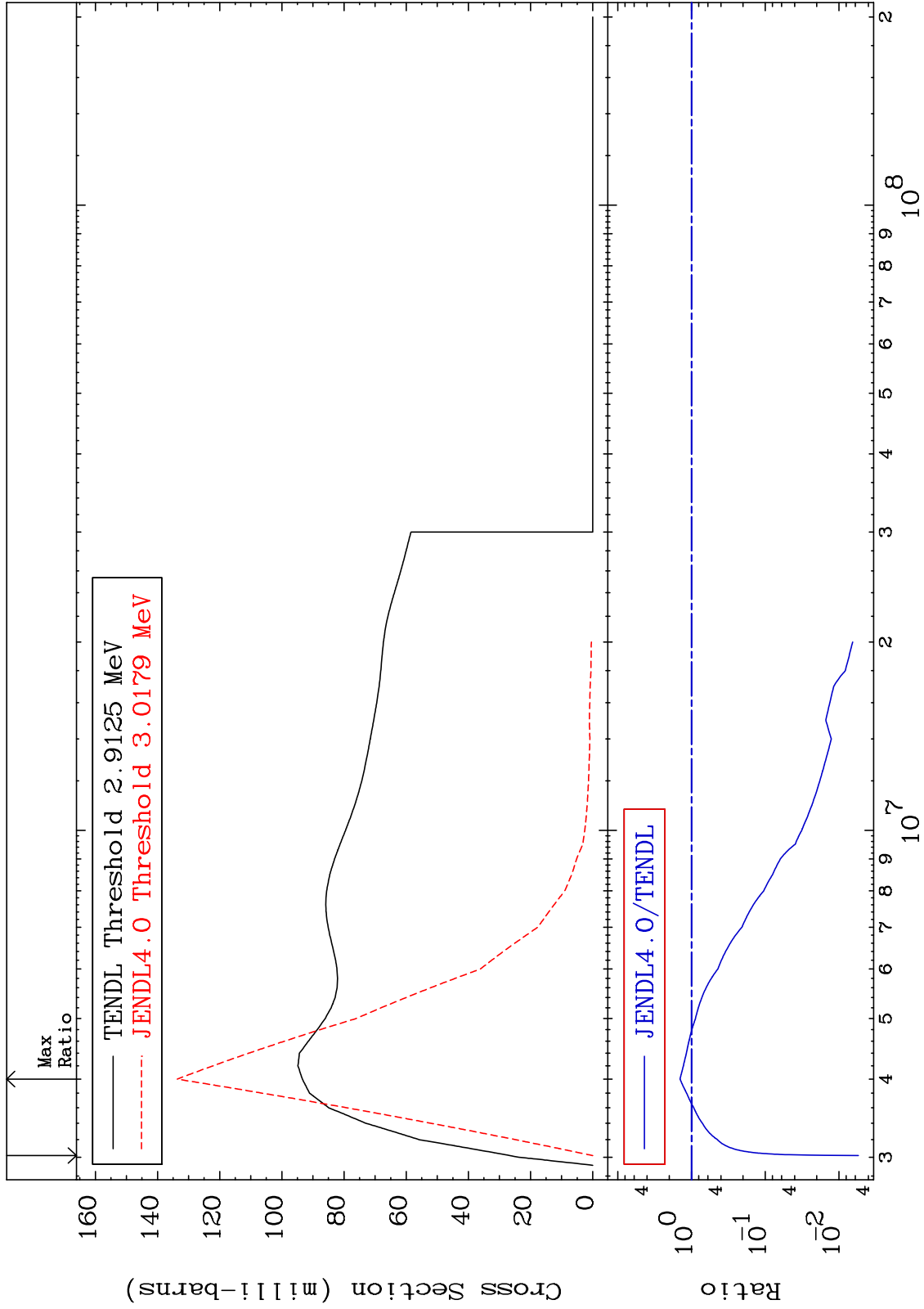
MAT 2843 MT= 54 (n,n') Level 28-Ni-64
 Cross Section -99.35 To -60.66%



MAT 2843

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

28-Ni-64
-99.45 To 43.15 %

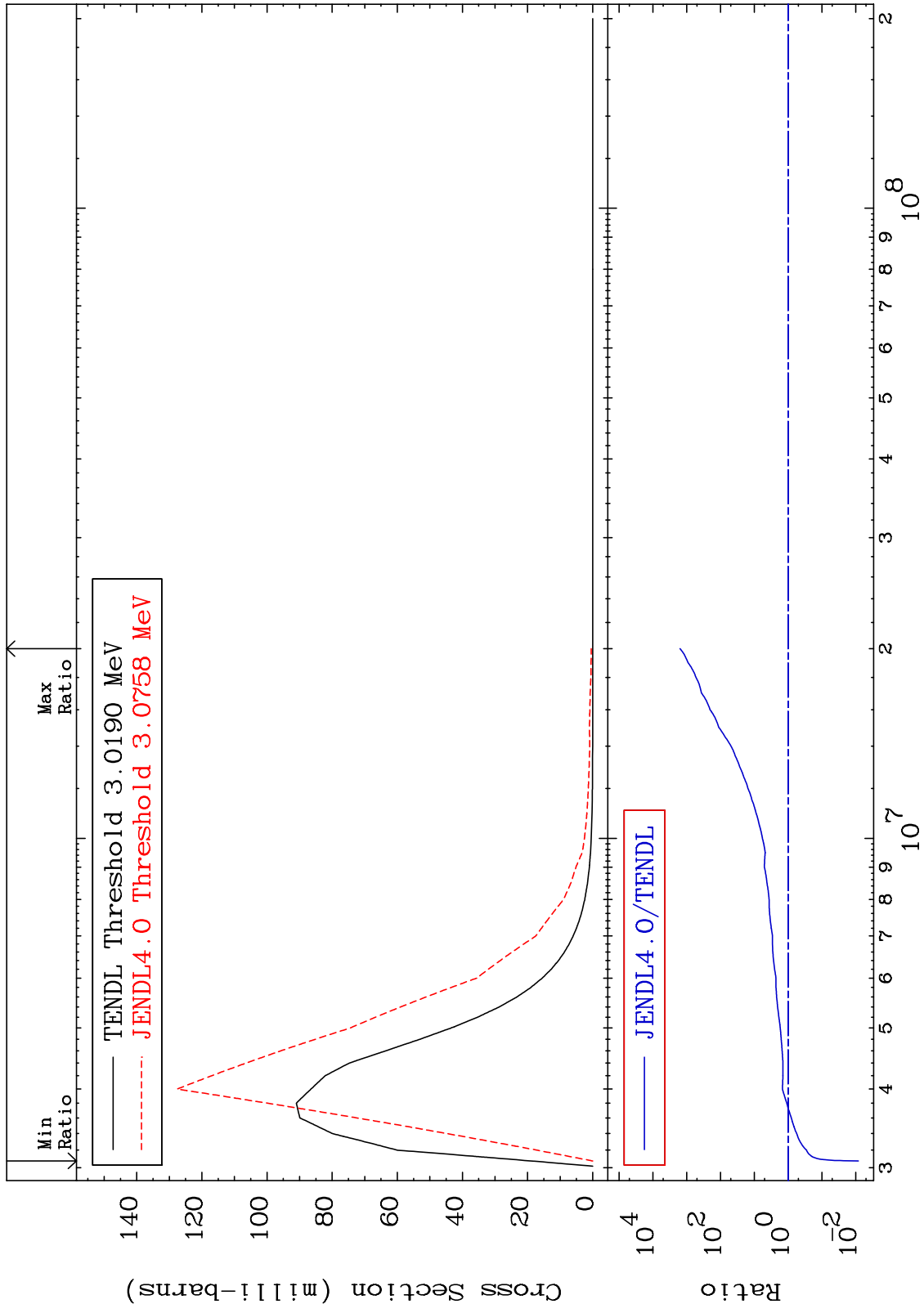


12

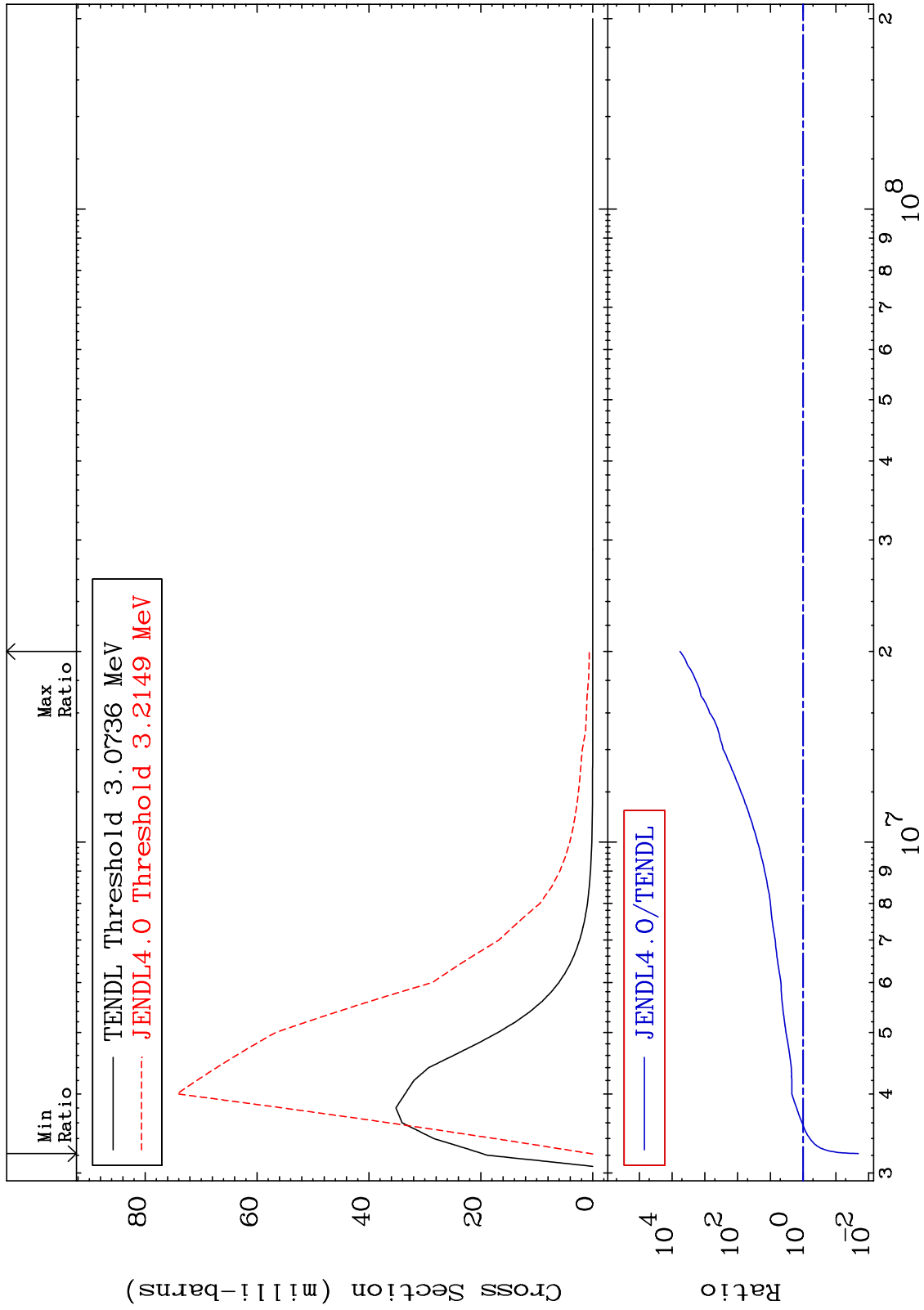
Incident Energy (eV)

28-Ni-64

MAT 2843 MT= 56 (n,n') Level 28-Ni-64
 Cross Section -99.17 To 9999. %



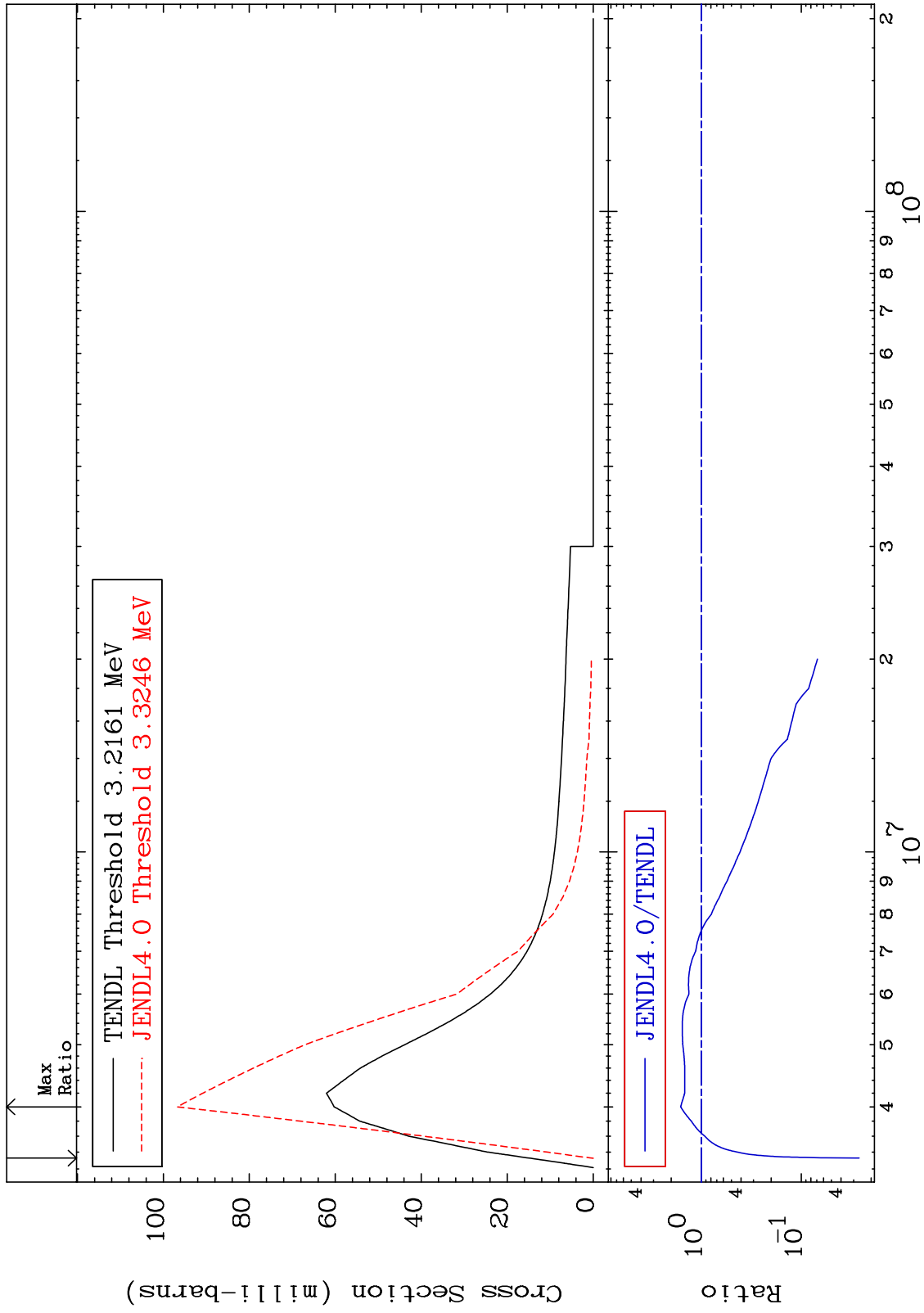
MAT 2843 MT= 57 (n,n') Level 28-Ni-64
 Cross Section -97.95 To 9999. %



MAT 2843

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

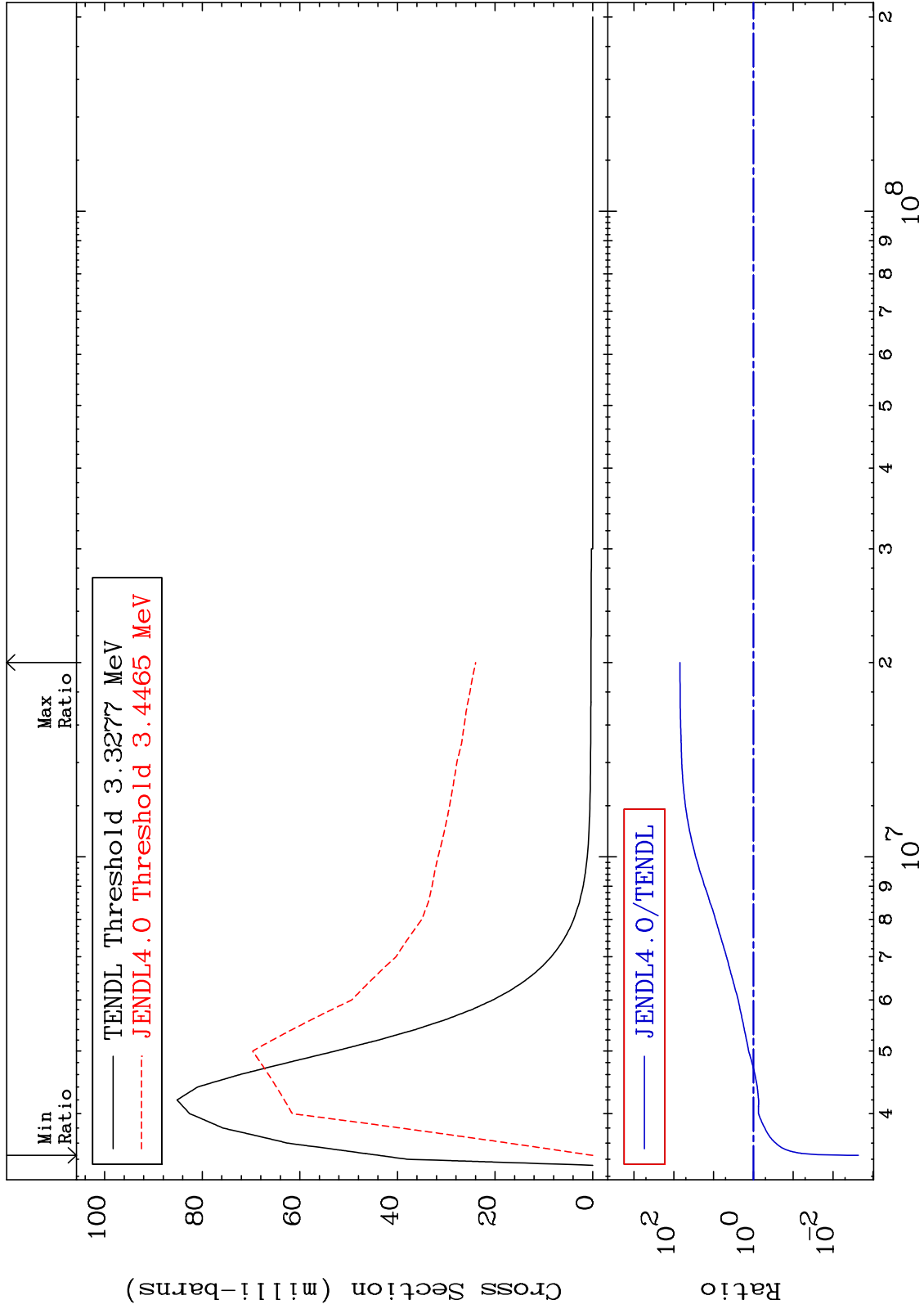
28-Ni-64
-97.36 To 60.62 %



MAT 2843

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

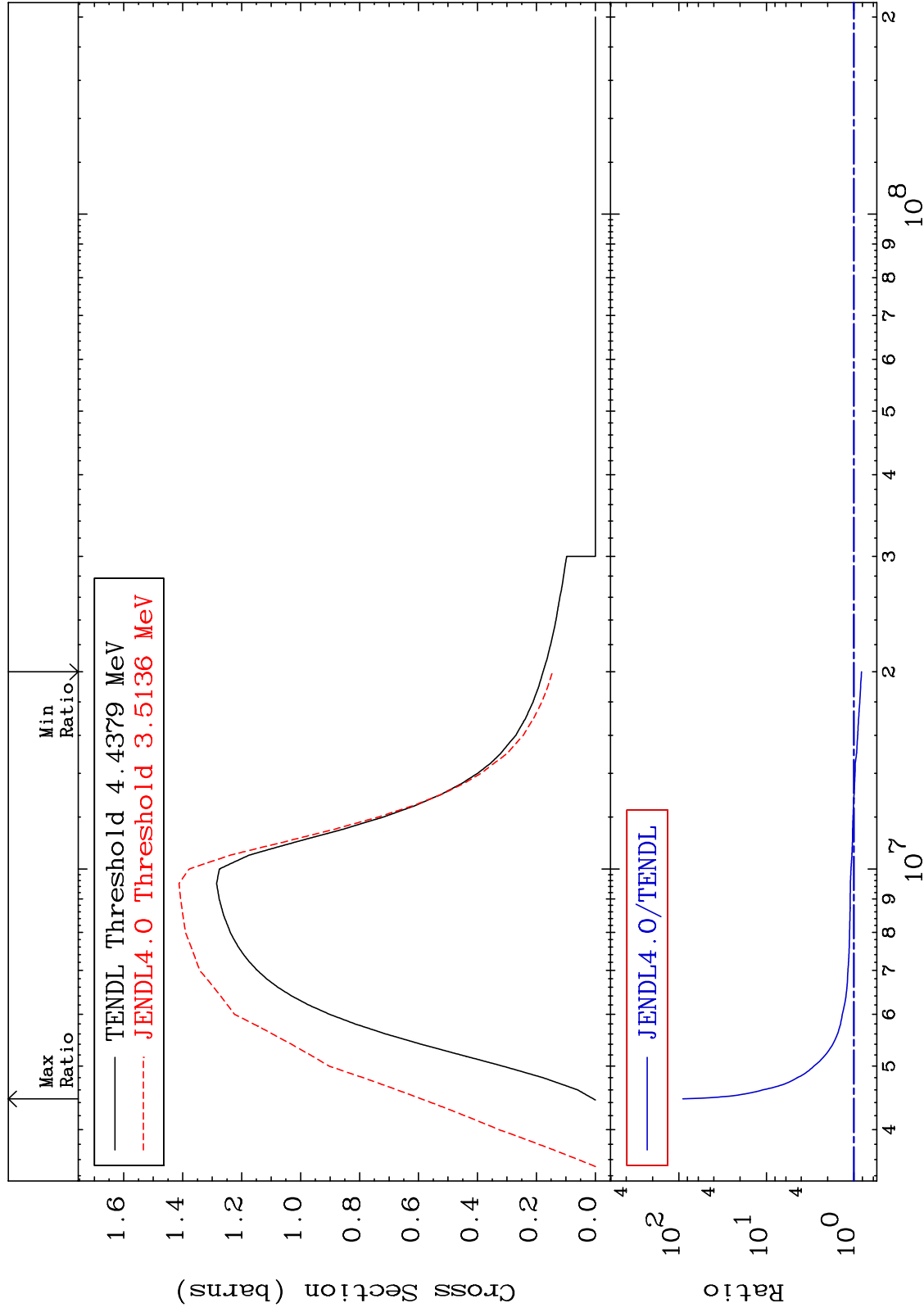
28-Ni-64
-99.77 To 6888. %



MAT 2843

(n, n') Continuum
Cross Section

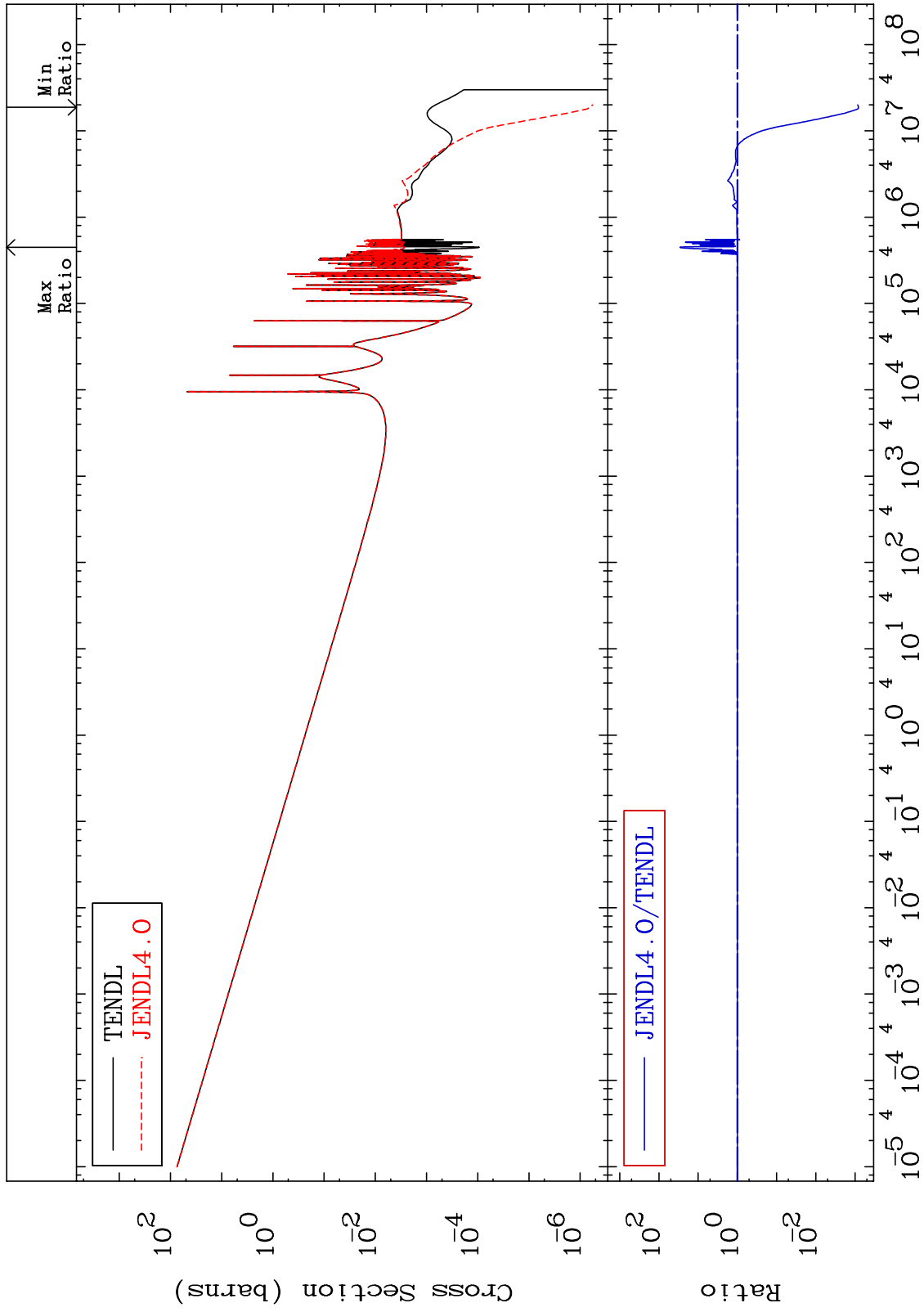
²⁸Ni-64
-18.19 To 8915. %



MAT 2843

(n, γ)
Cross Section

28-Ni-64
-99.92 To 2797. %



18

Incident Energy (eV)

28-Ni-64

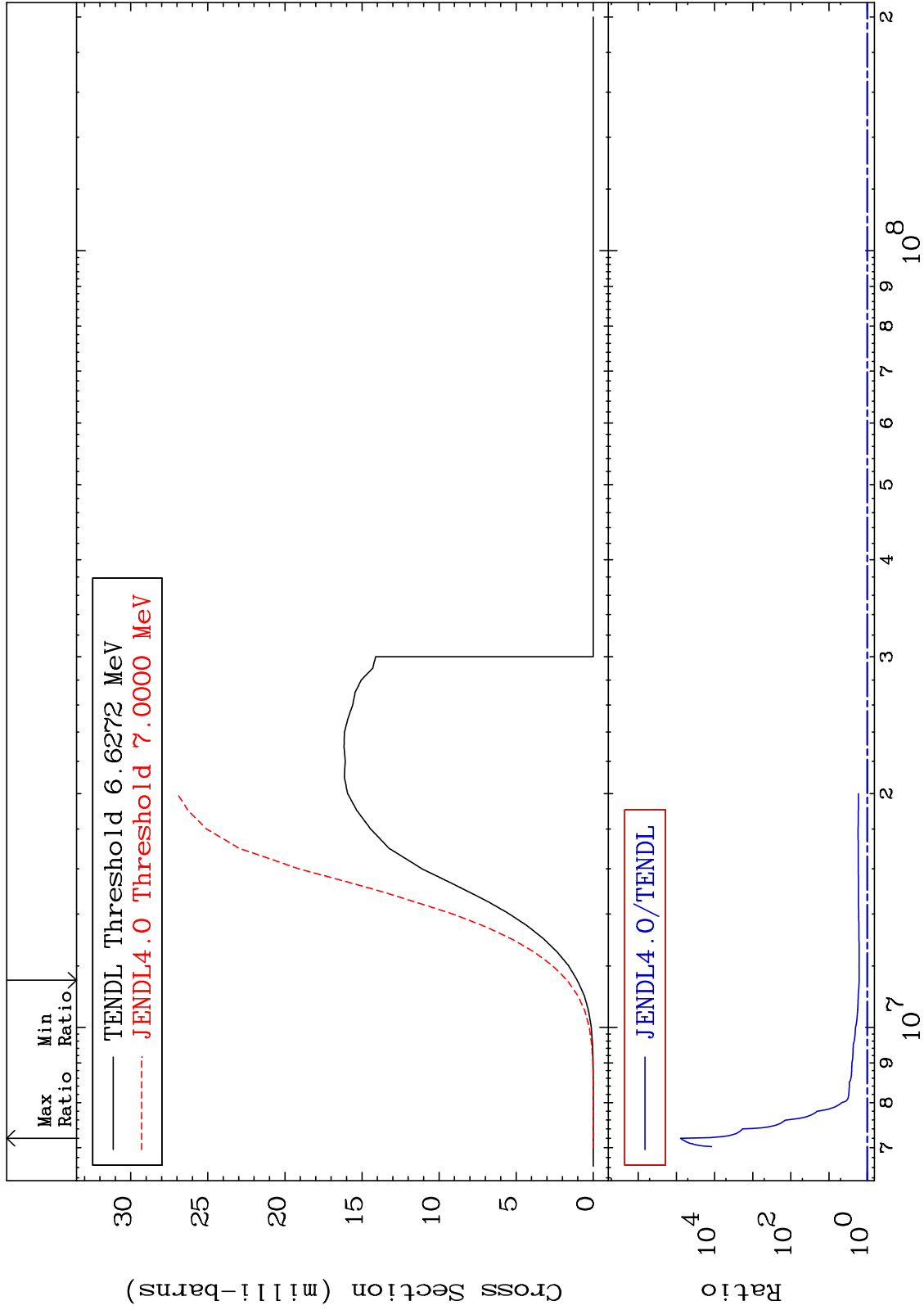
MAT 2843

(n,p)

28-Ni-64

Cross Section

63.11 To 9999. %



19

Incident Energy (eV)

28-Ni-64

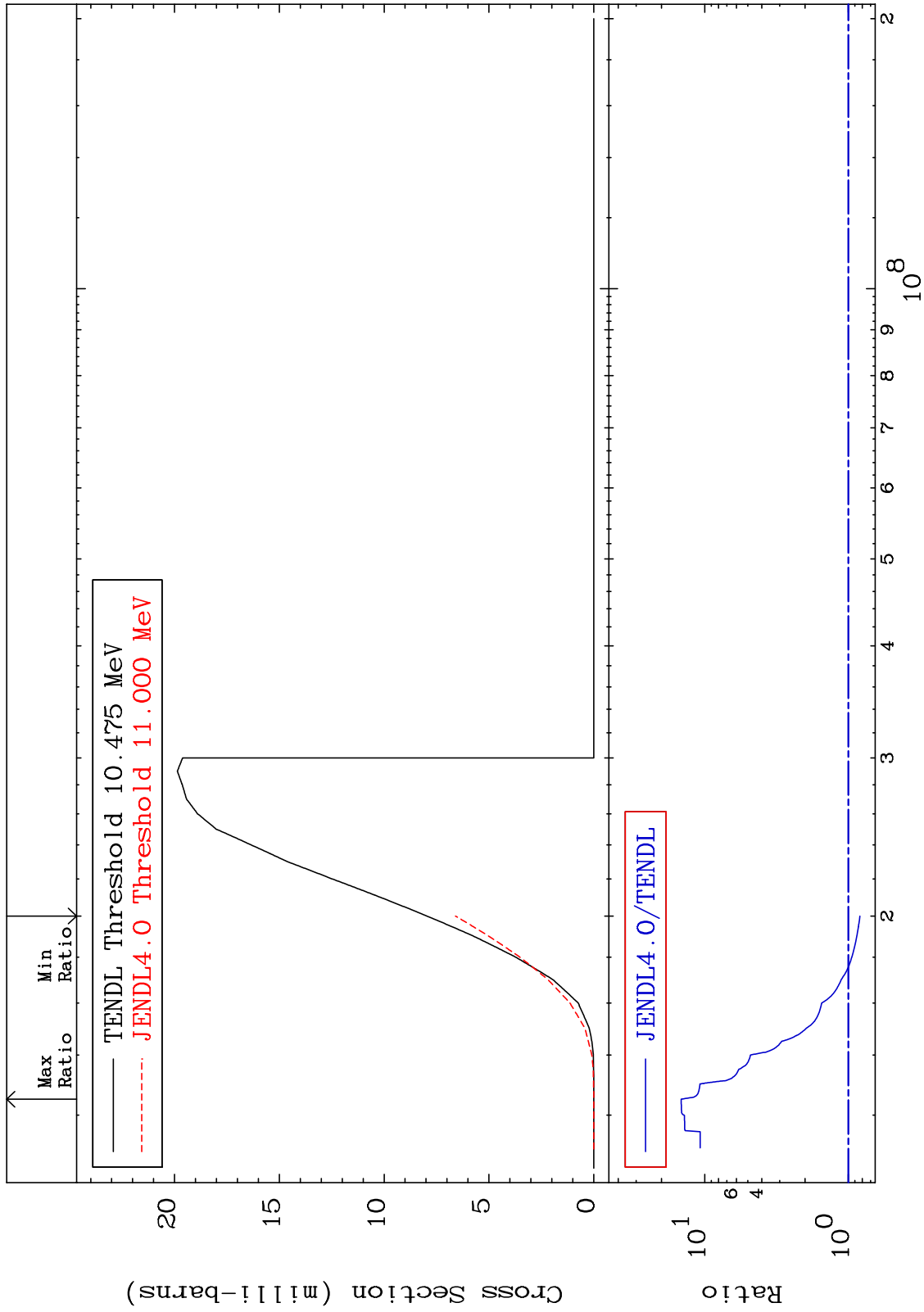
MAT 2843

(n,d)

²⁸Ni-64

Cross Section

-17.05 To 1356. %



20

Incident Energy (eV)

²⁸Ni-64

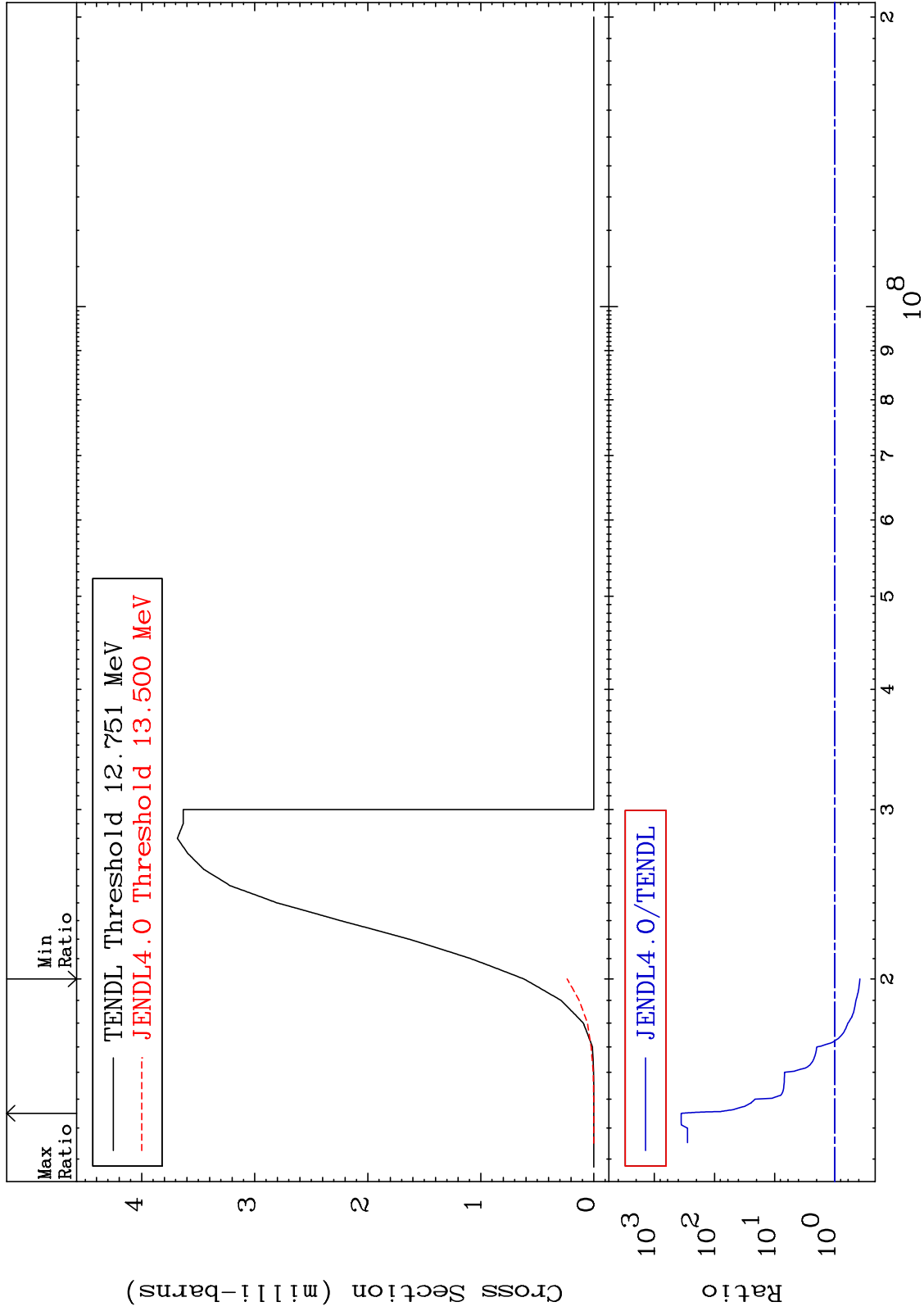
MAT 2843

(n, t)

28-Ni-64

Cross Section

-61.85 To 9999. %



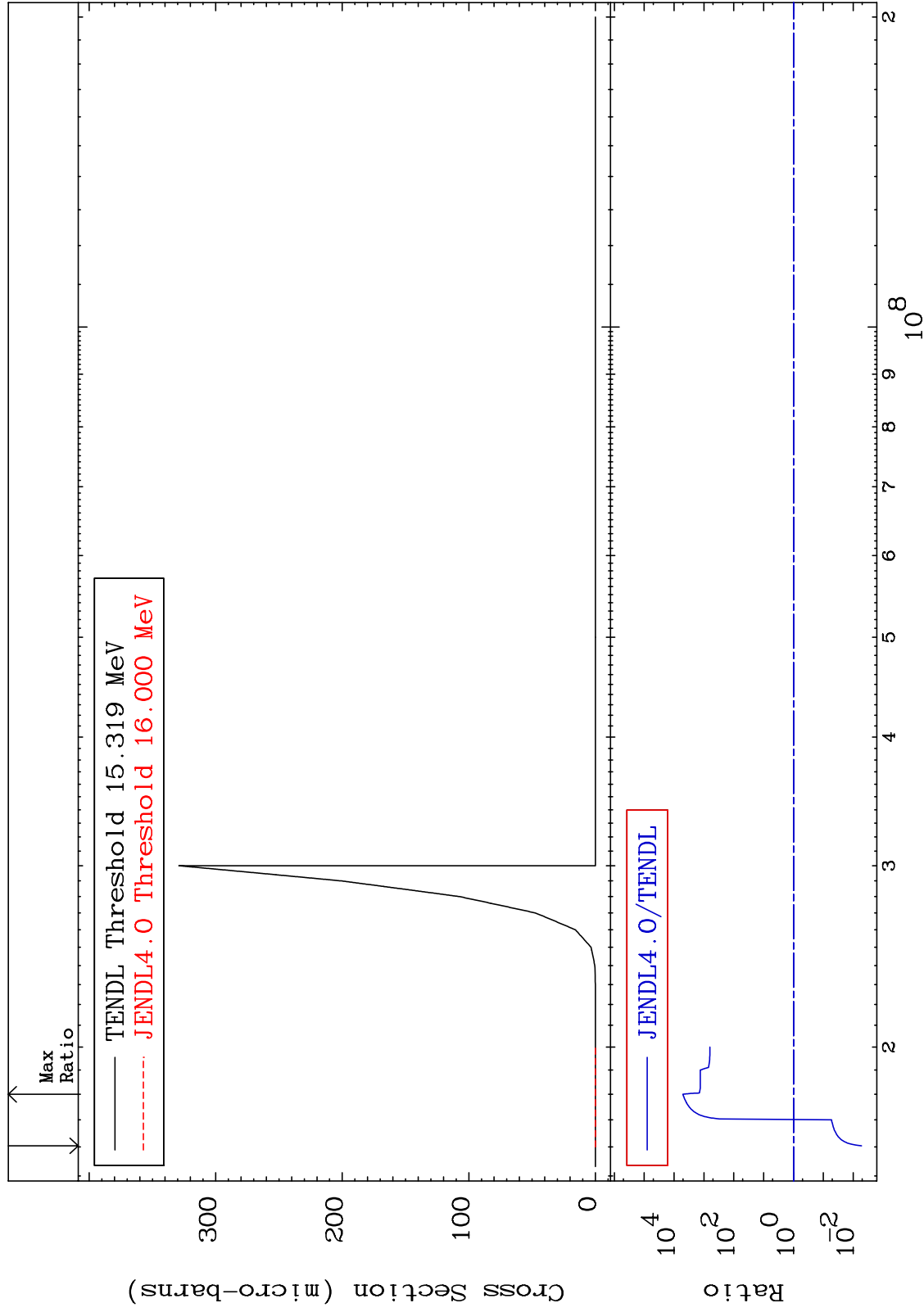
MAT 2843

(n, He-3)

28-Ni-64

Cross Section

-99.48 To 9999. %



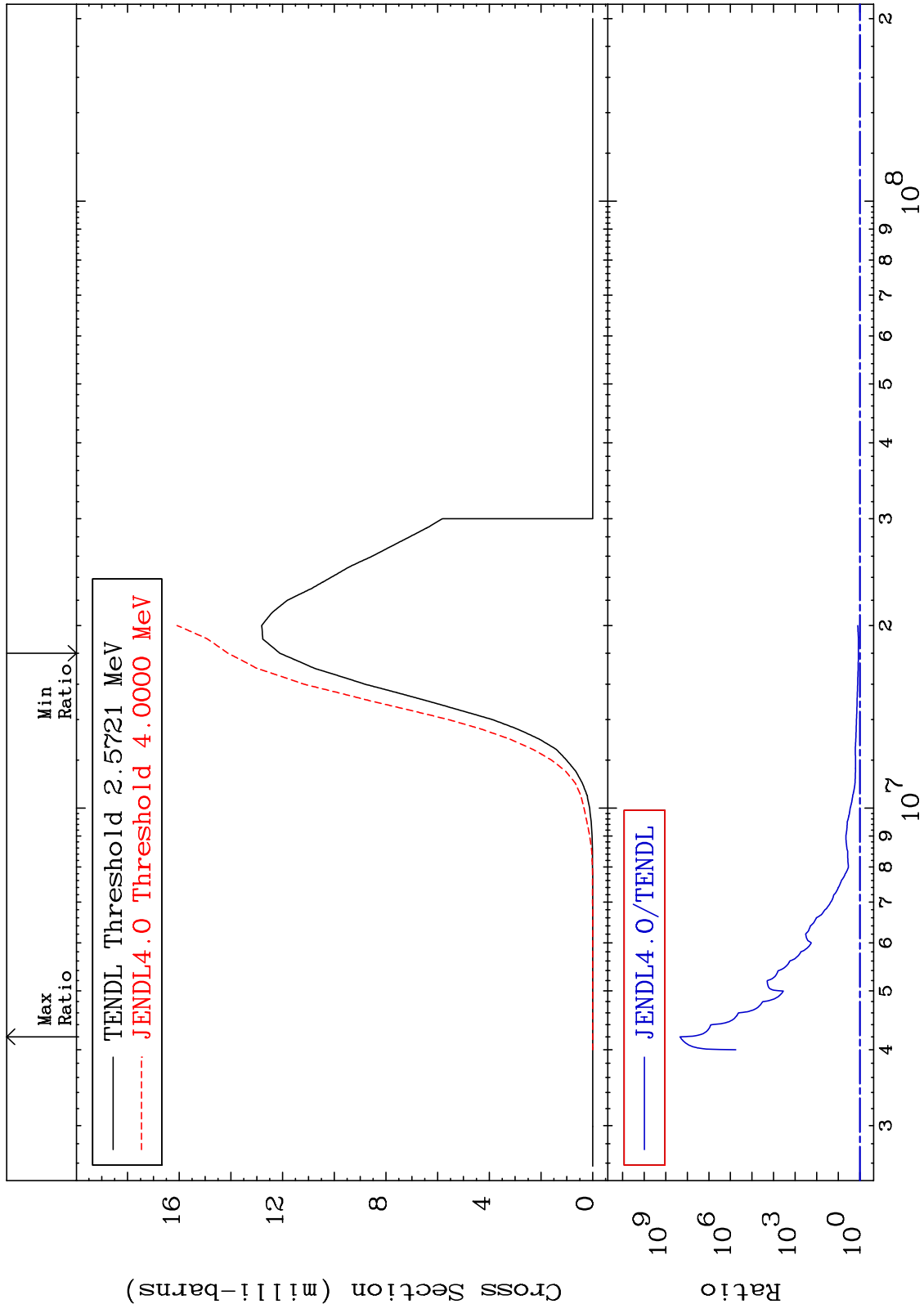
MAT 2843

(n, α)

28-Ni-64

16.57 To 9999. %

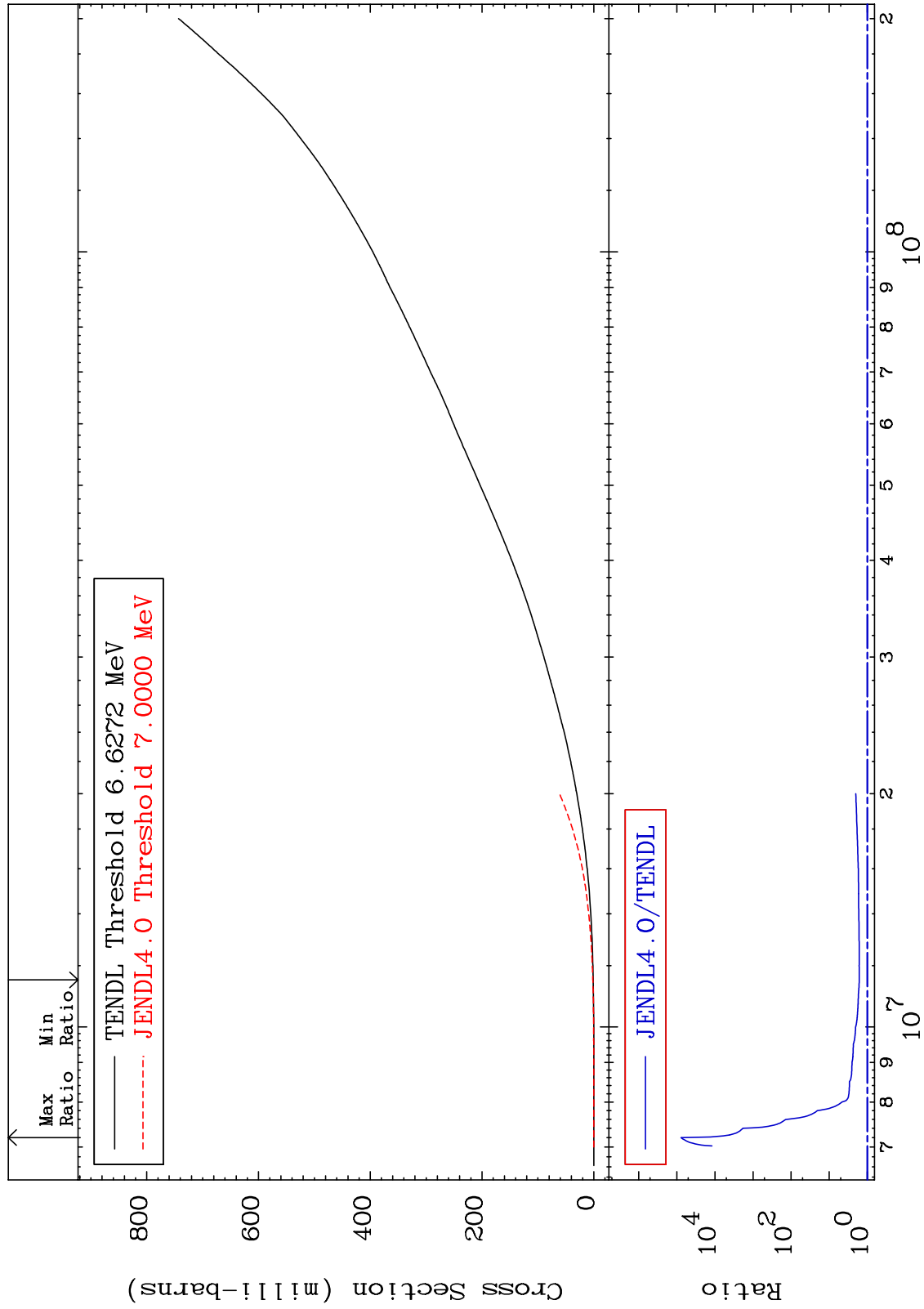
Cross Section



MAT 2843

Hydrogen Production
Cross Section

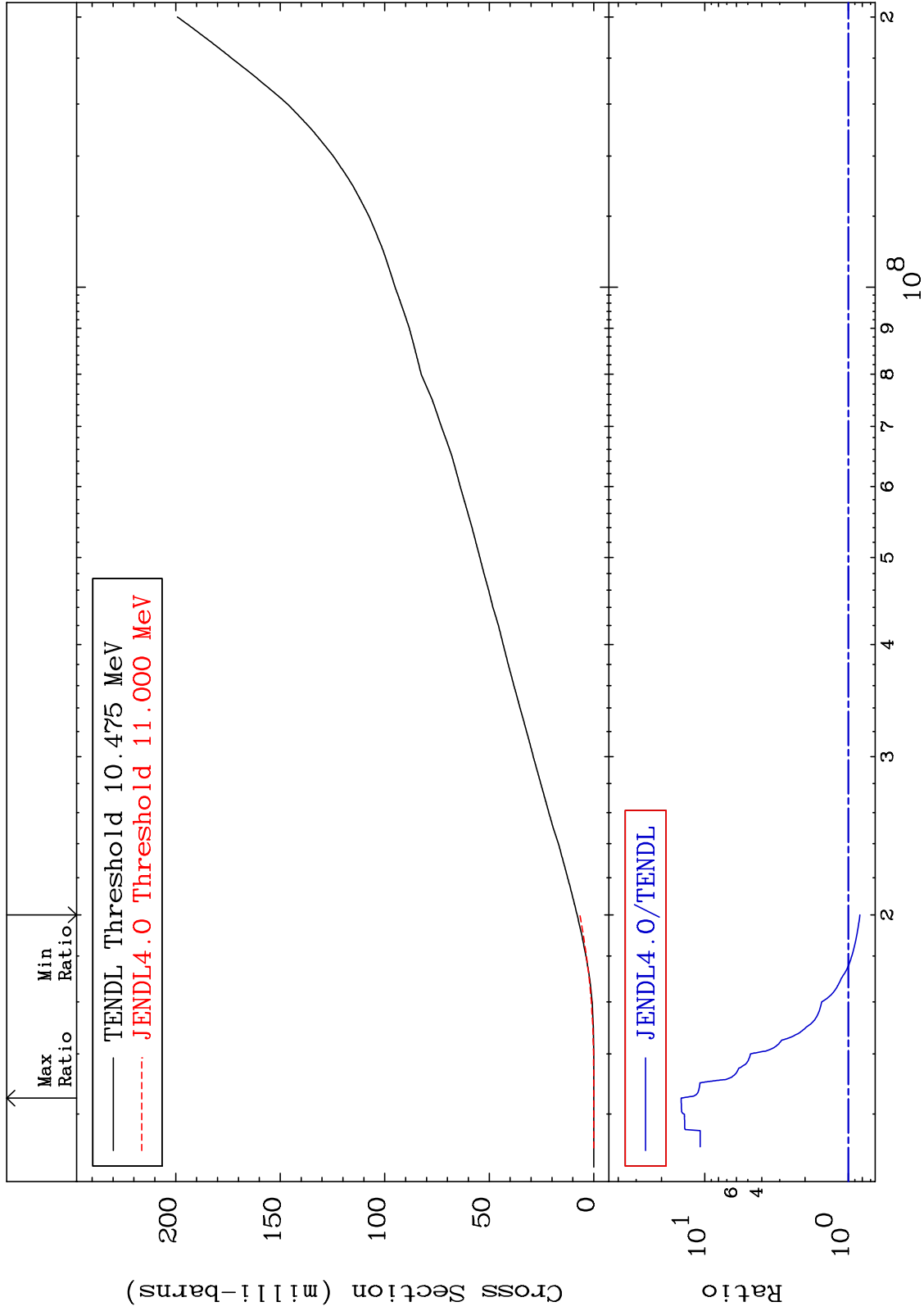
28-Ni-64
63.11 To 9999. %



MAT 2843

Deuterium Production
Cross Section

²⁸Ni-64
-17.05 To 1356. %



25

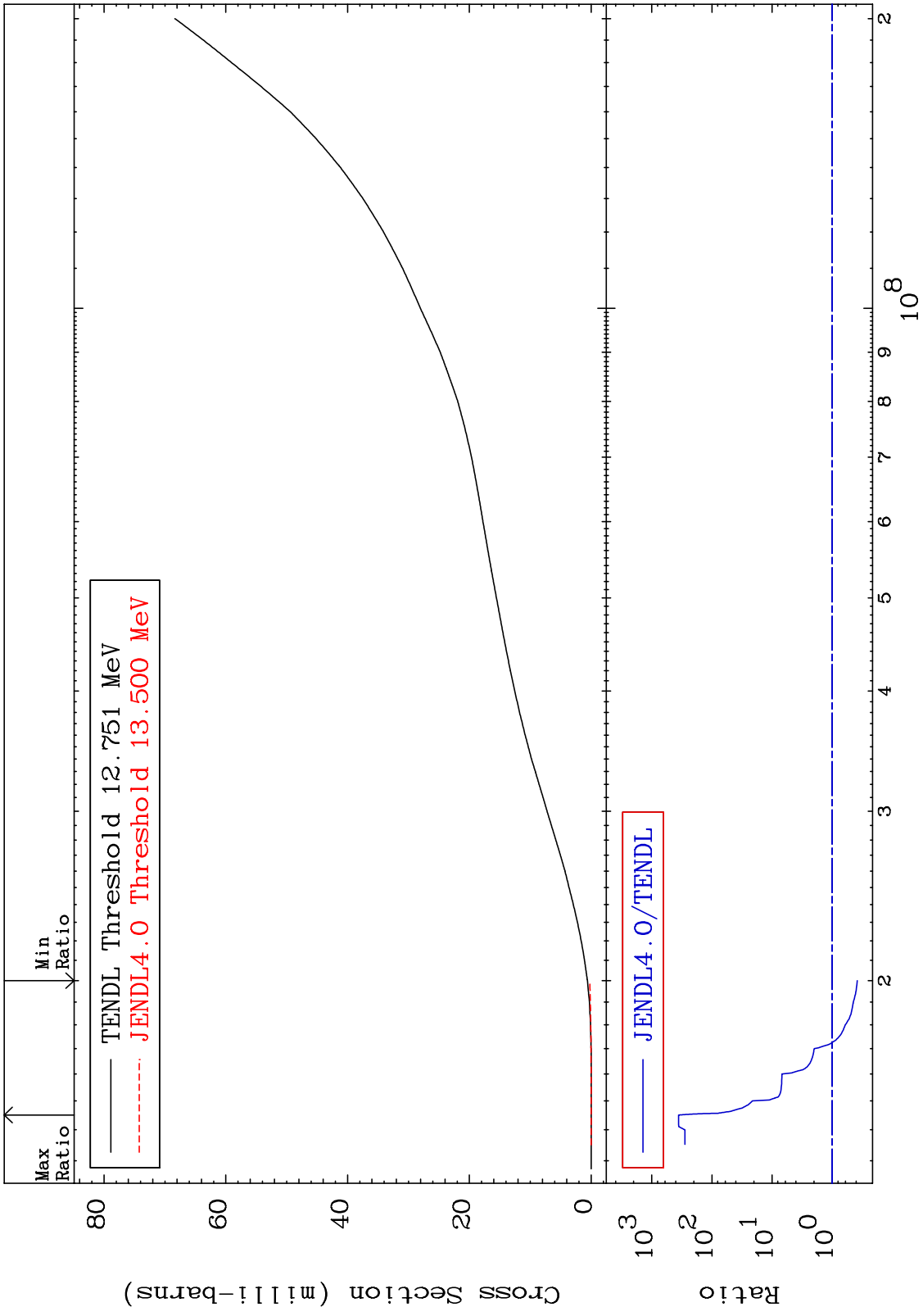
Incident Energy (eV)

²⁸Ni-64

MAT 2843

Tritium Production
Cross Section

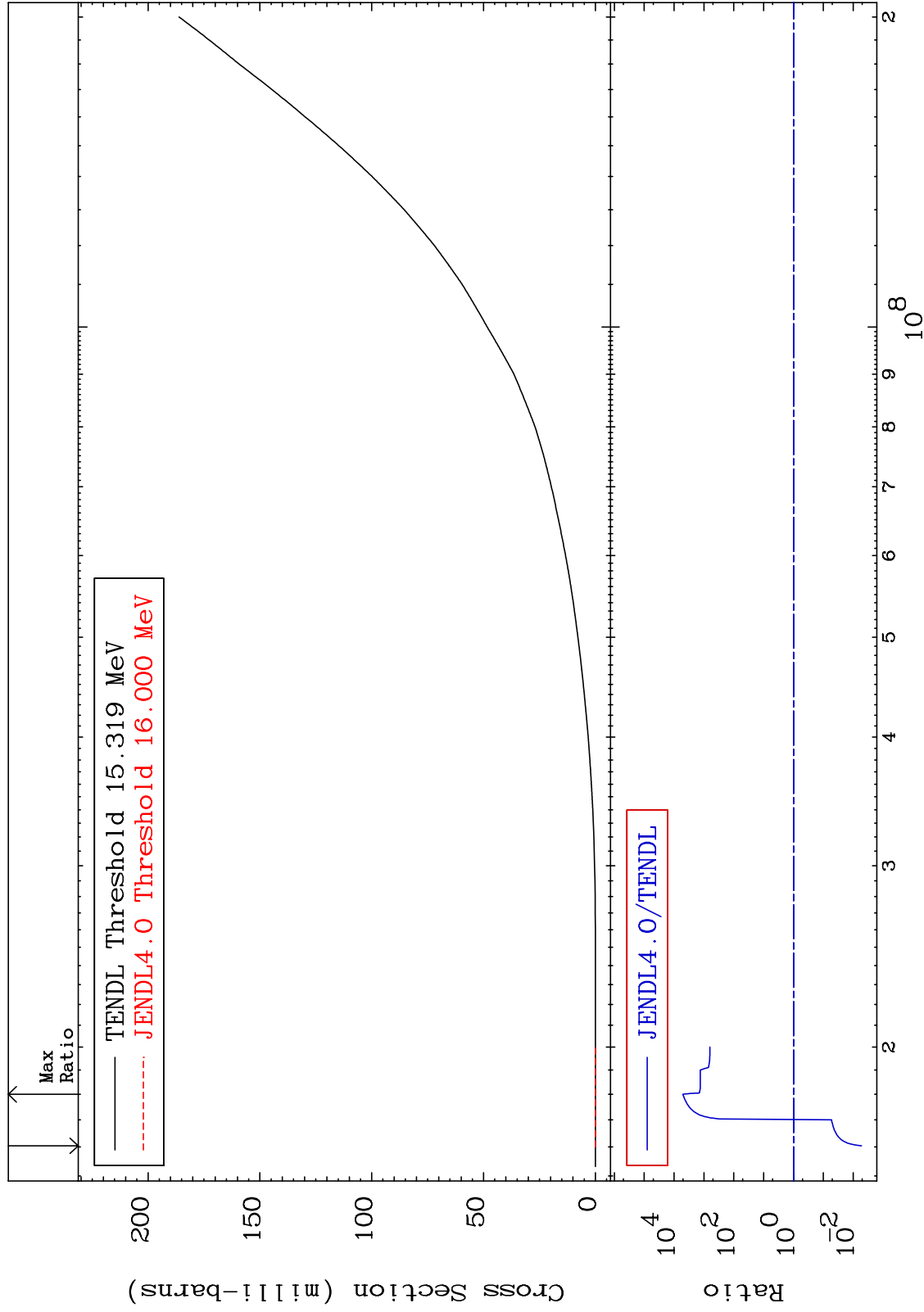
²⁸Ni-64
-61.85 To 9999. %



MAT 2843

He-3 Production
Cross Section

28-Ni-64
-99.48 To 9999. %



27

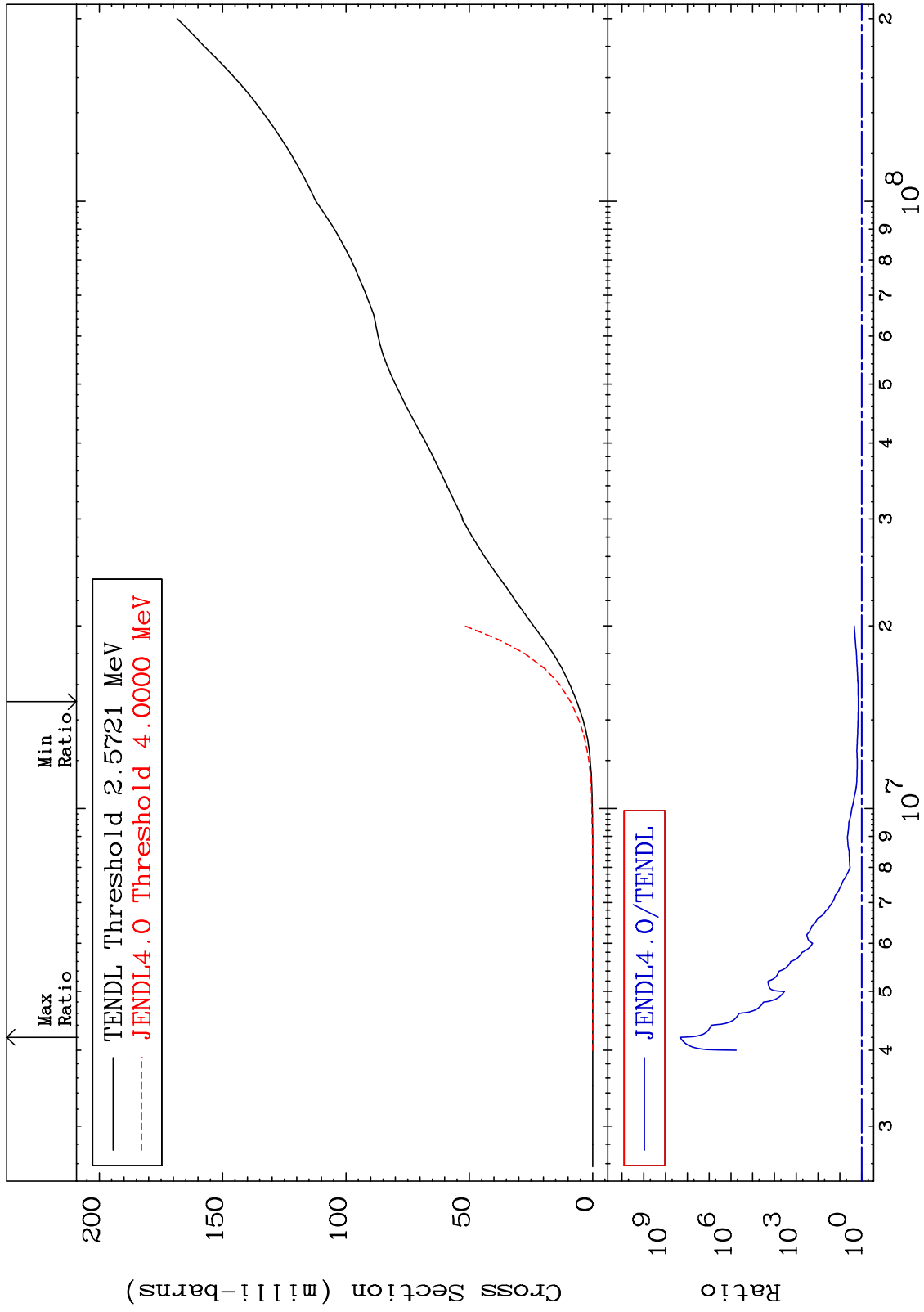
Incident Energy (eV)

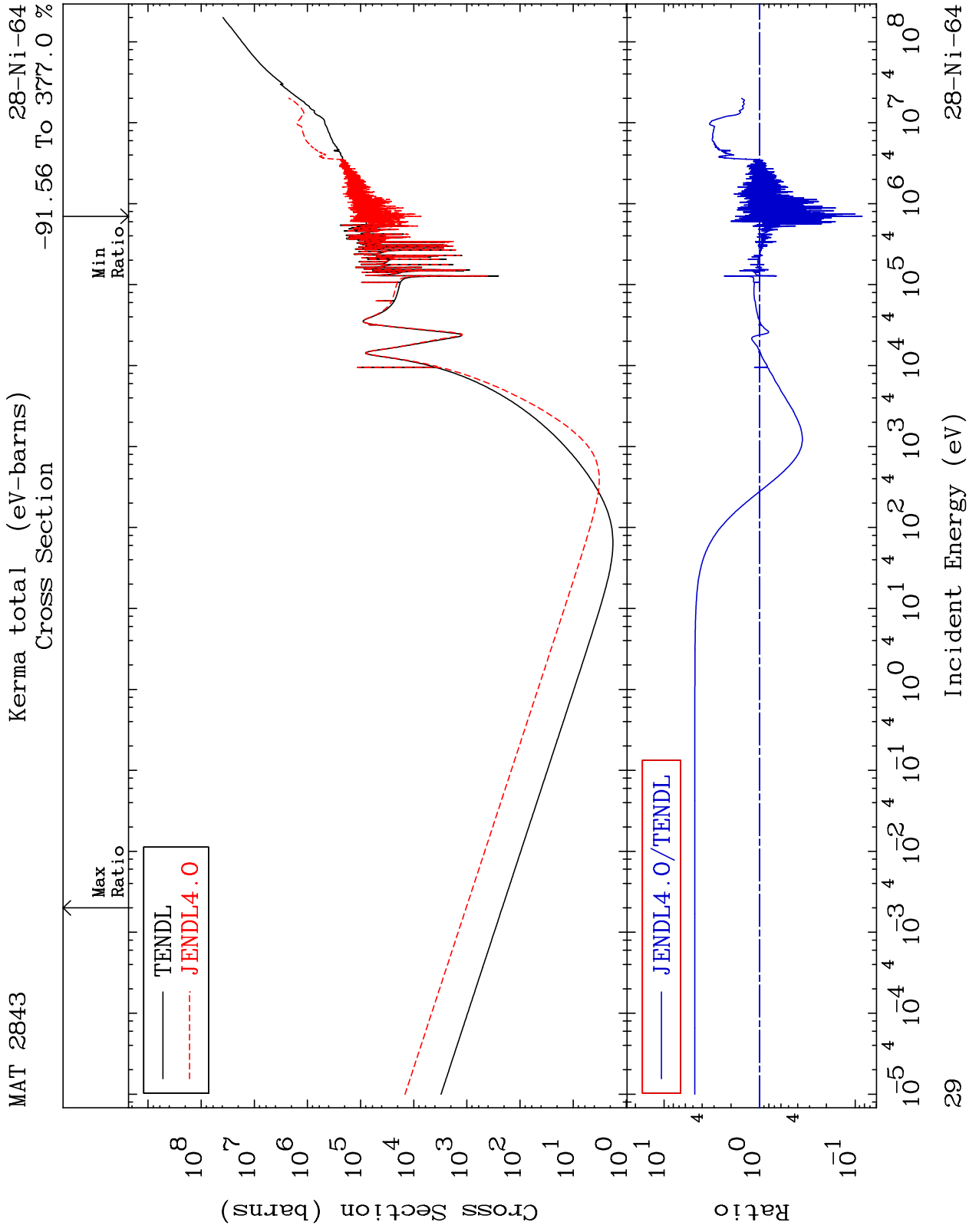
28-Ni-64

MAT 2843

He-4 Production
Cross Section

28-Ni-64
39.37 To 9999. %

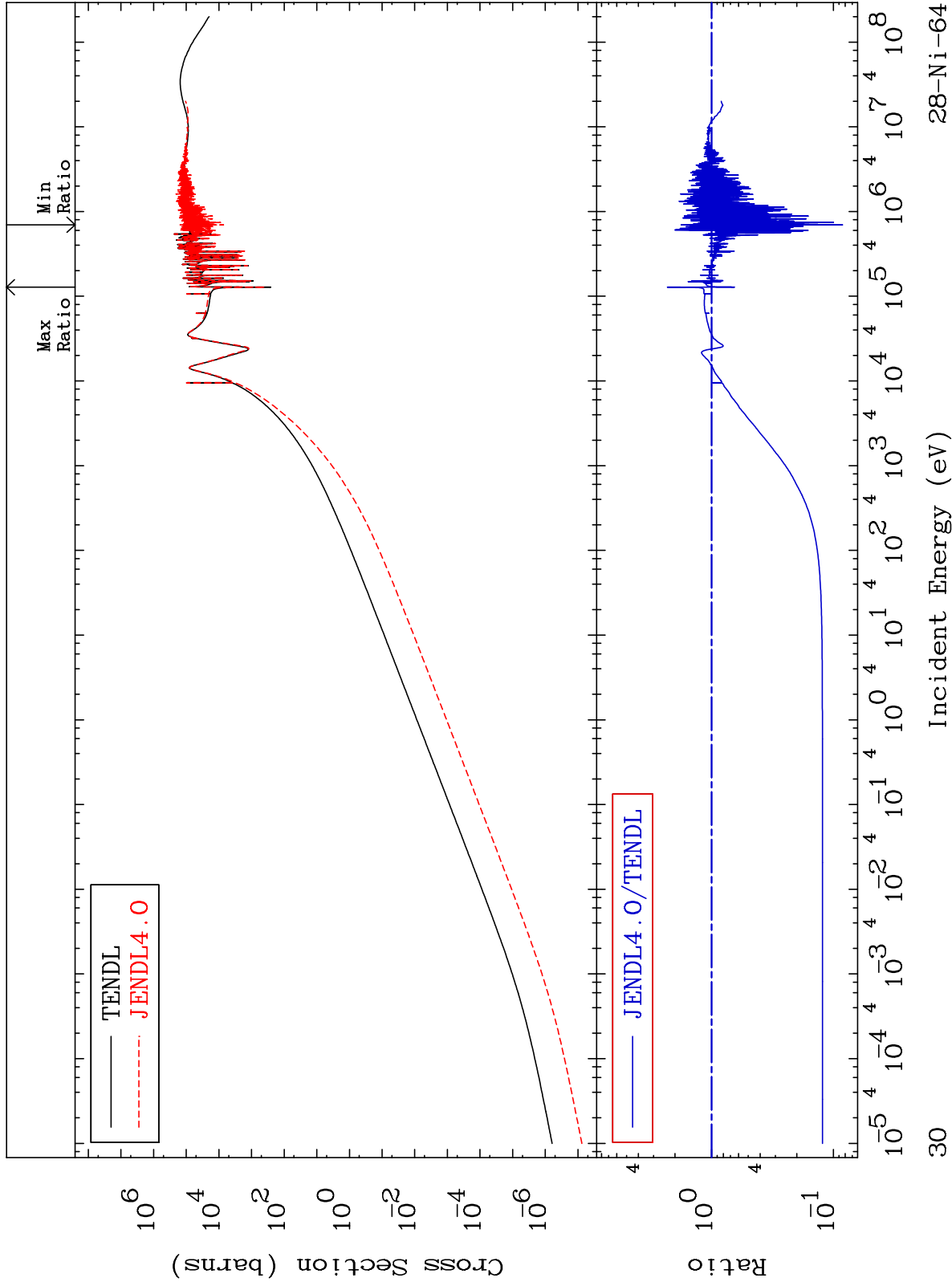




MAT 2843

Kerma elastic
Cross Section

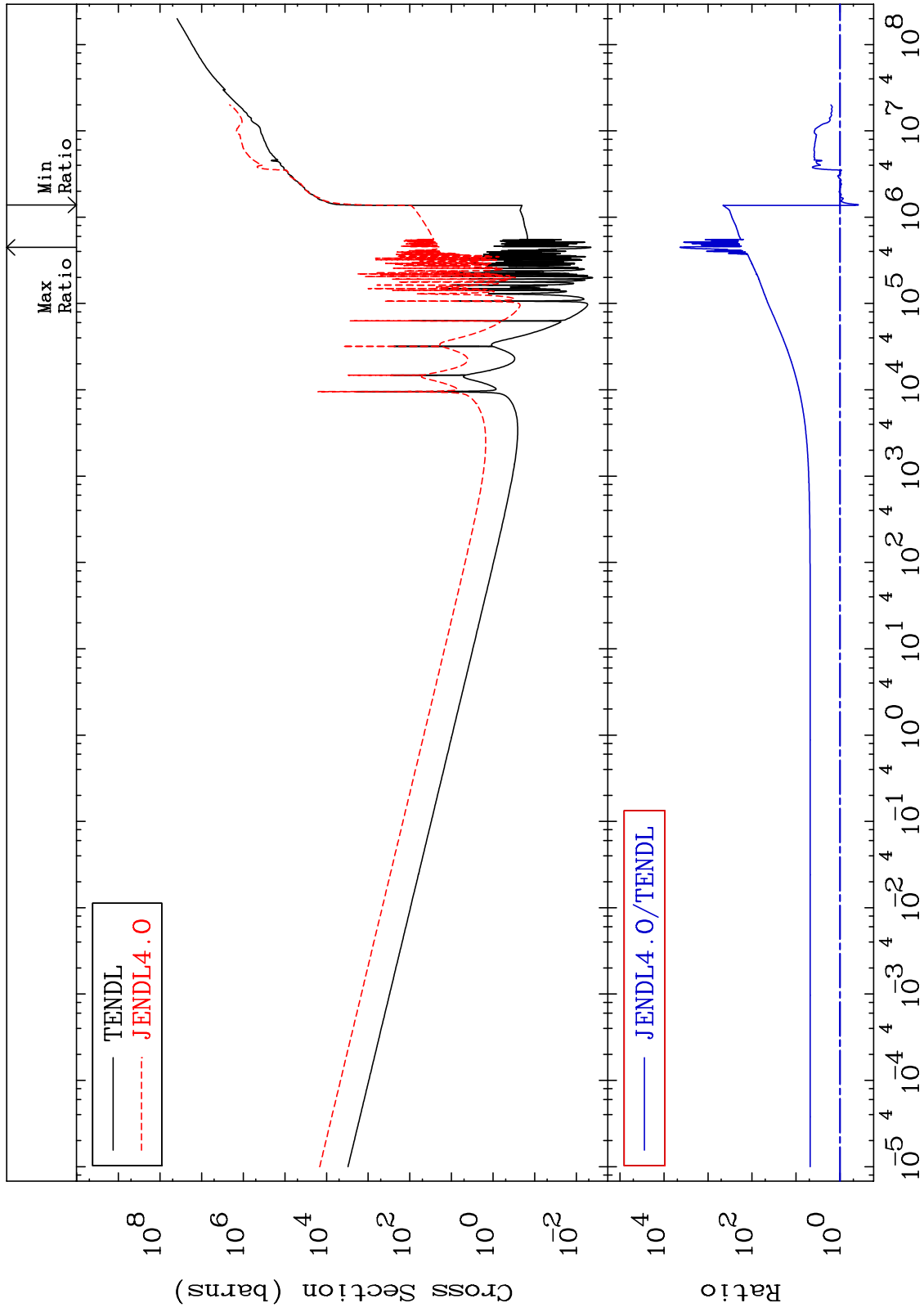
28-Ni-64
-91.60 To 130.1 %



MAT 2843

Kerma non-elastic (all but mt2)
Cross Section

28-Ni-64
-61.70 To 9999. %



31

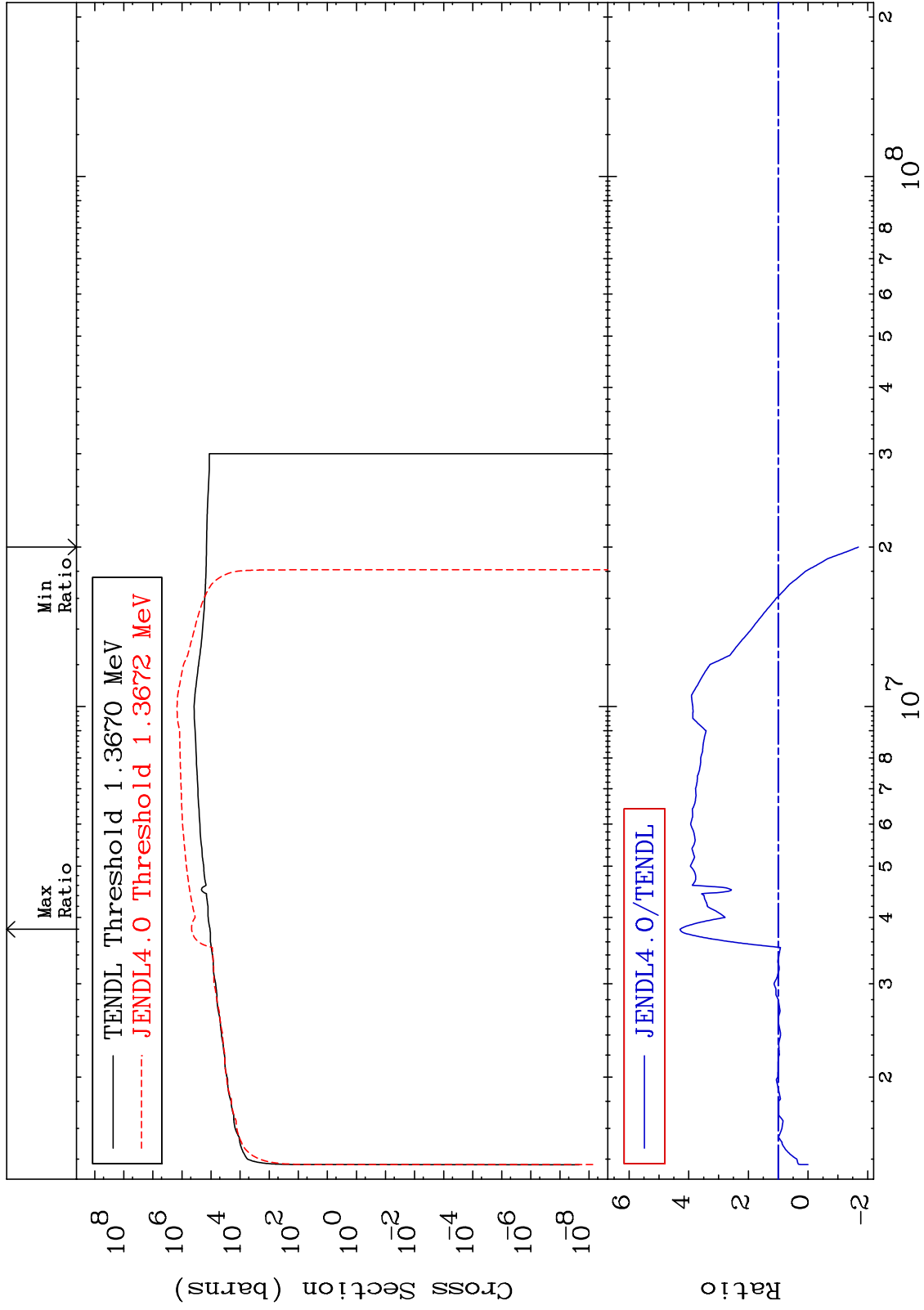
Incident Energy (eV)

28-Ni-64

MAT 2843

Kerma inelastic (mt51-91)
Cross Section

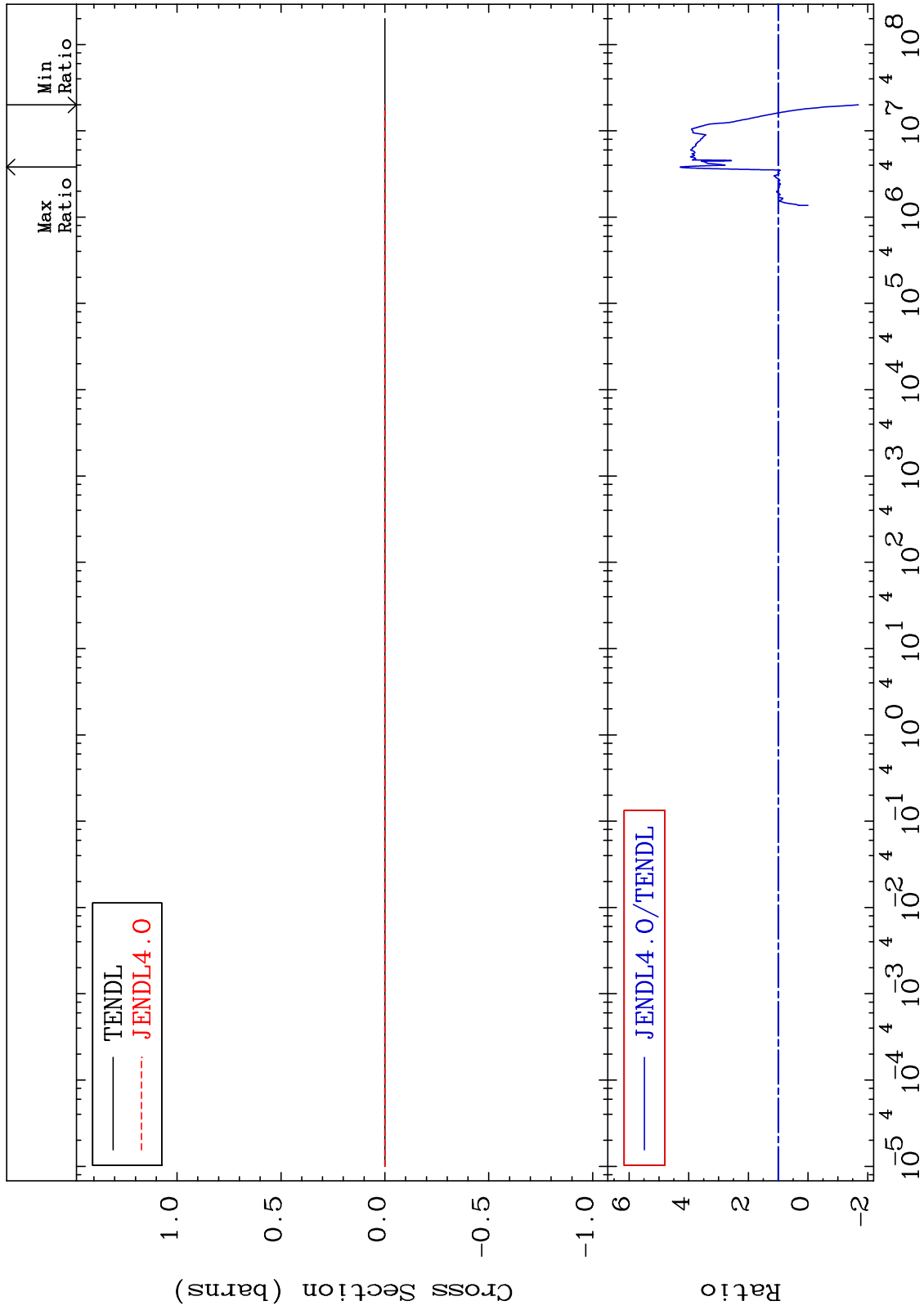
28-Ni-64
-268.9 To 329.2 %



MAT 2843

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

28-Ni-64
-268.9 To 329.2 %



33

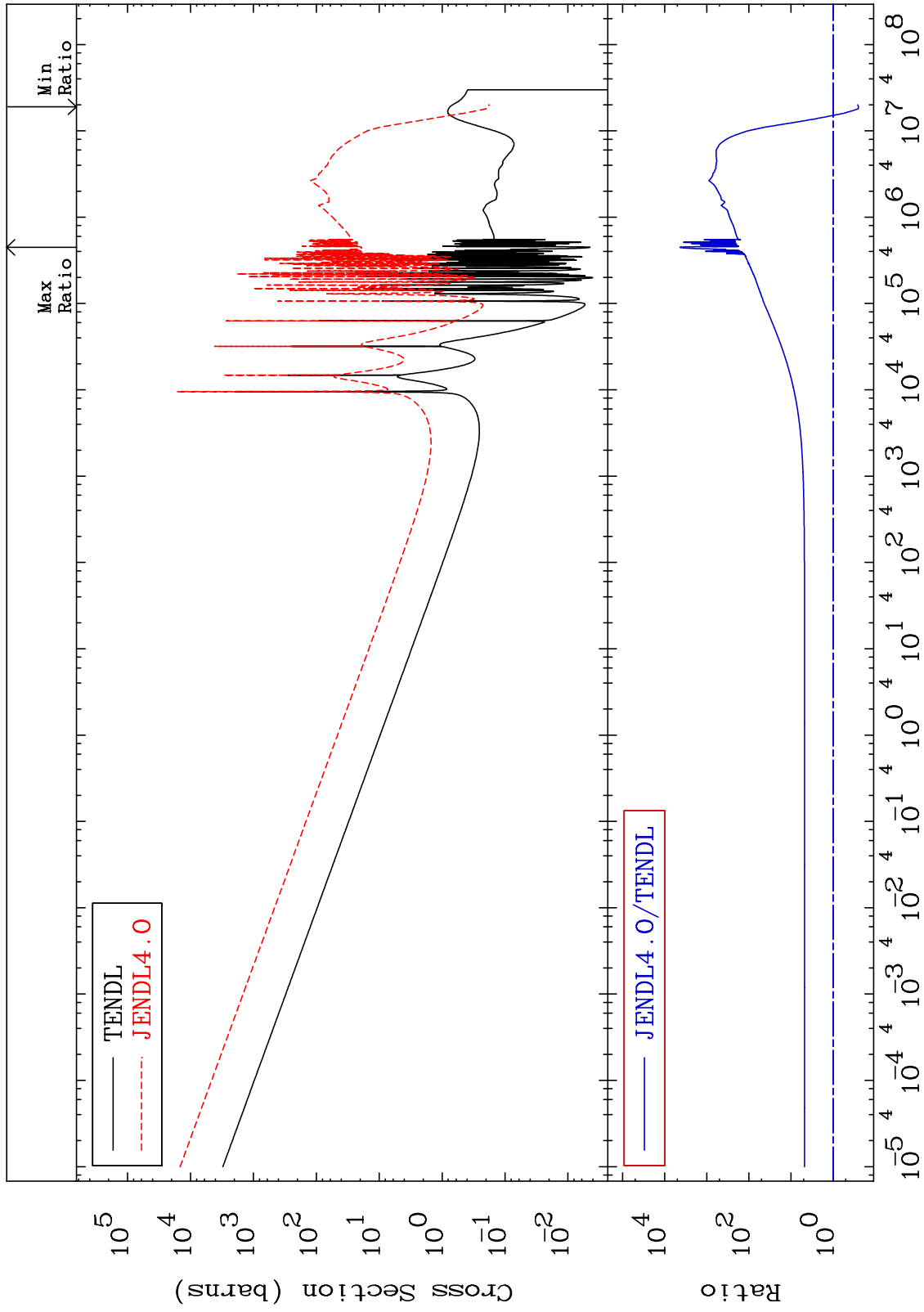
Incident Energy (eV)

28-Ni-64

MAT 2843

Kerma capture (mt102)
Cross Section

28-Ni-64
-74.94 To 9999. %



34

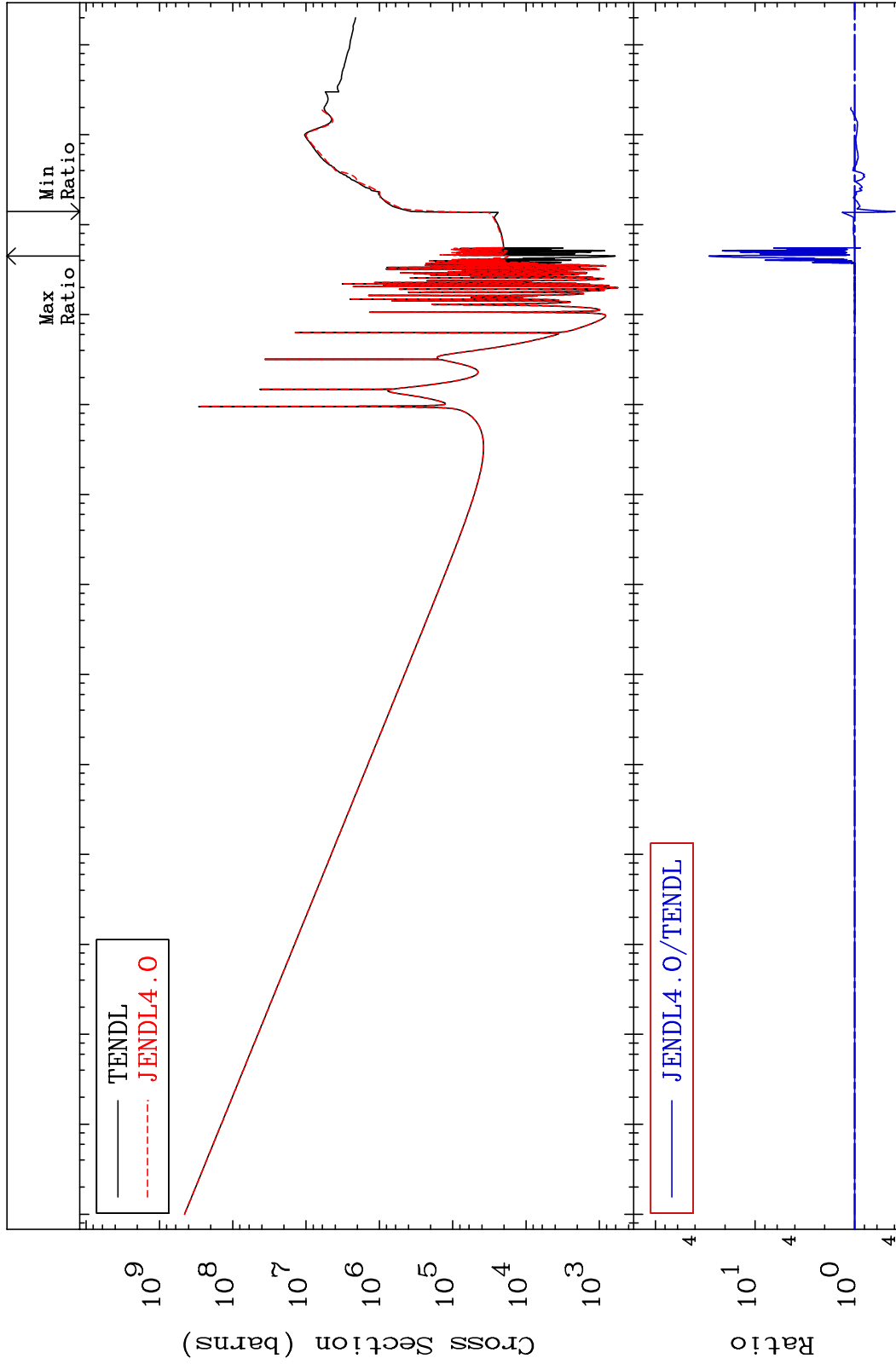
Incident Energy (eV)

28-Ni-64

MAT 2843

Total photon (eV-barns)
Cross Section

28-Ni-64
-60.48 To 2800. %

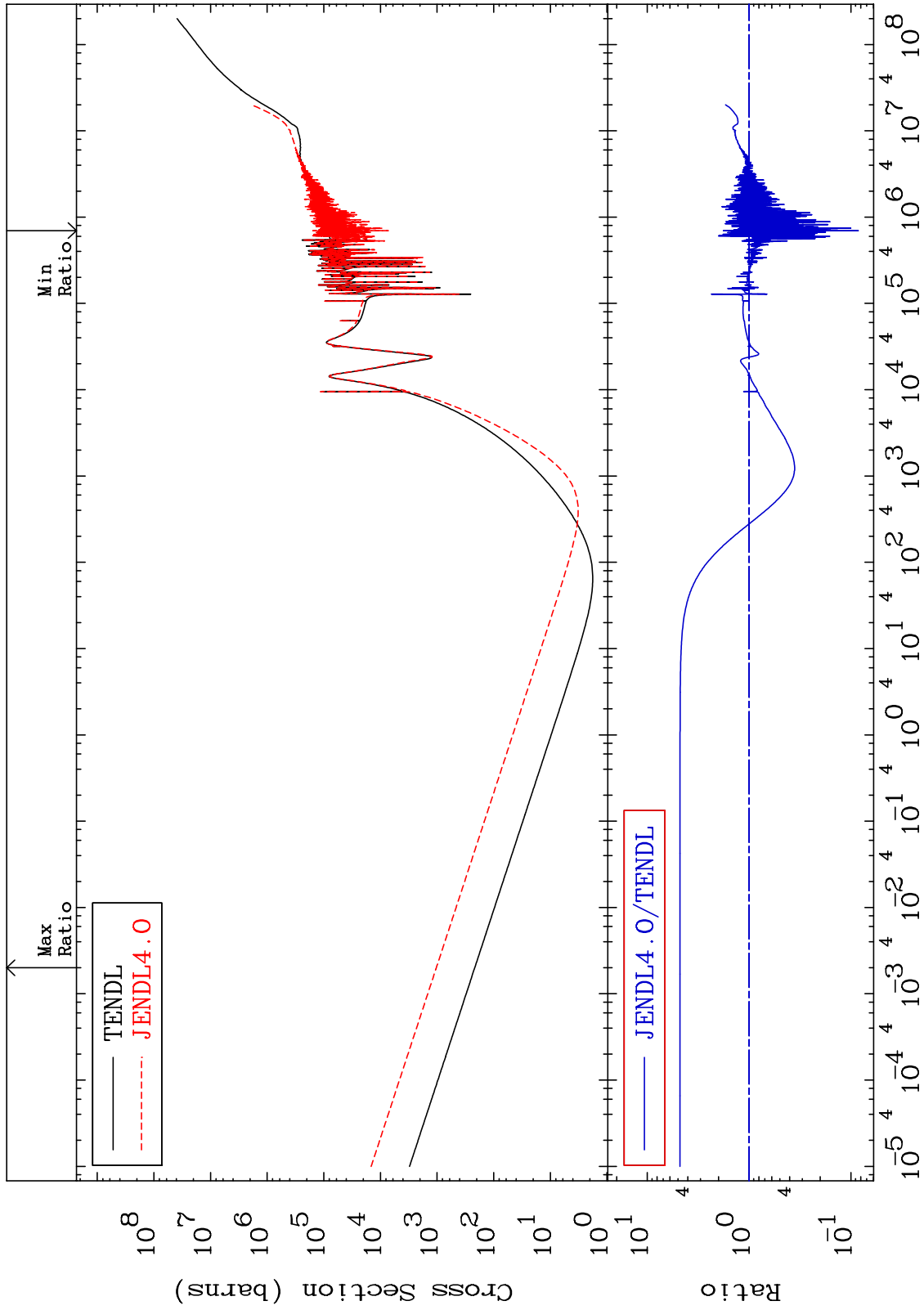


Ratio

Incident Energy (eV)

28-Ni-64

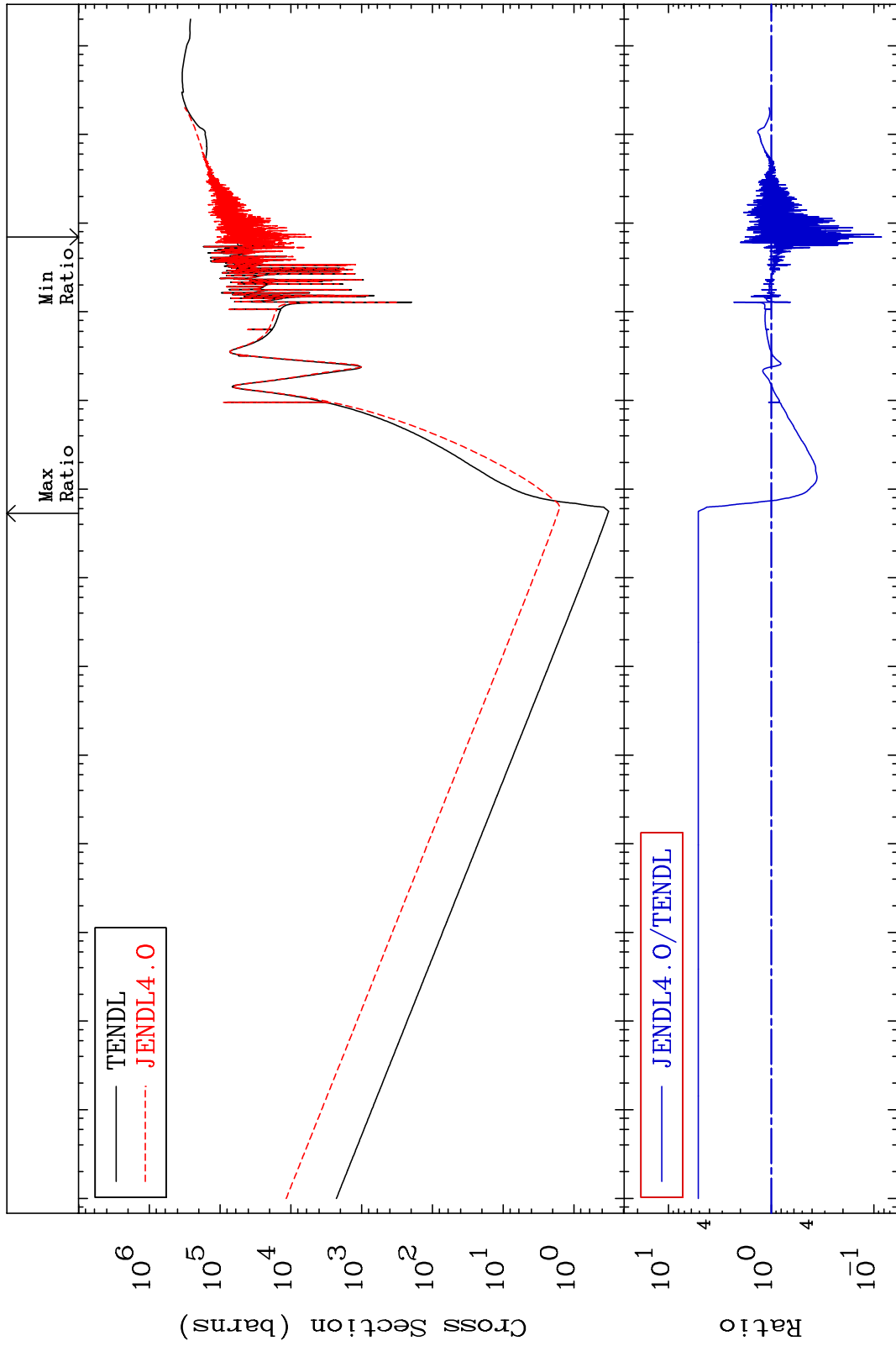
MAT 2843 Total kinematic kerma (high limit) 28-Ni-64
Cross Section -91.56 To 377.0 %



MAT 2843

Dpa total (eV-barns)
Cross Section

28-Ni-64
-91.57 To 412.3 %



37

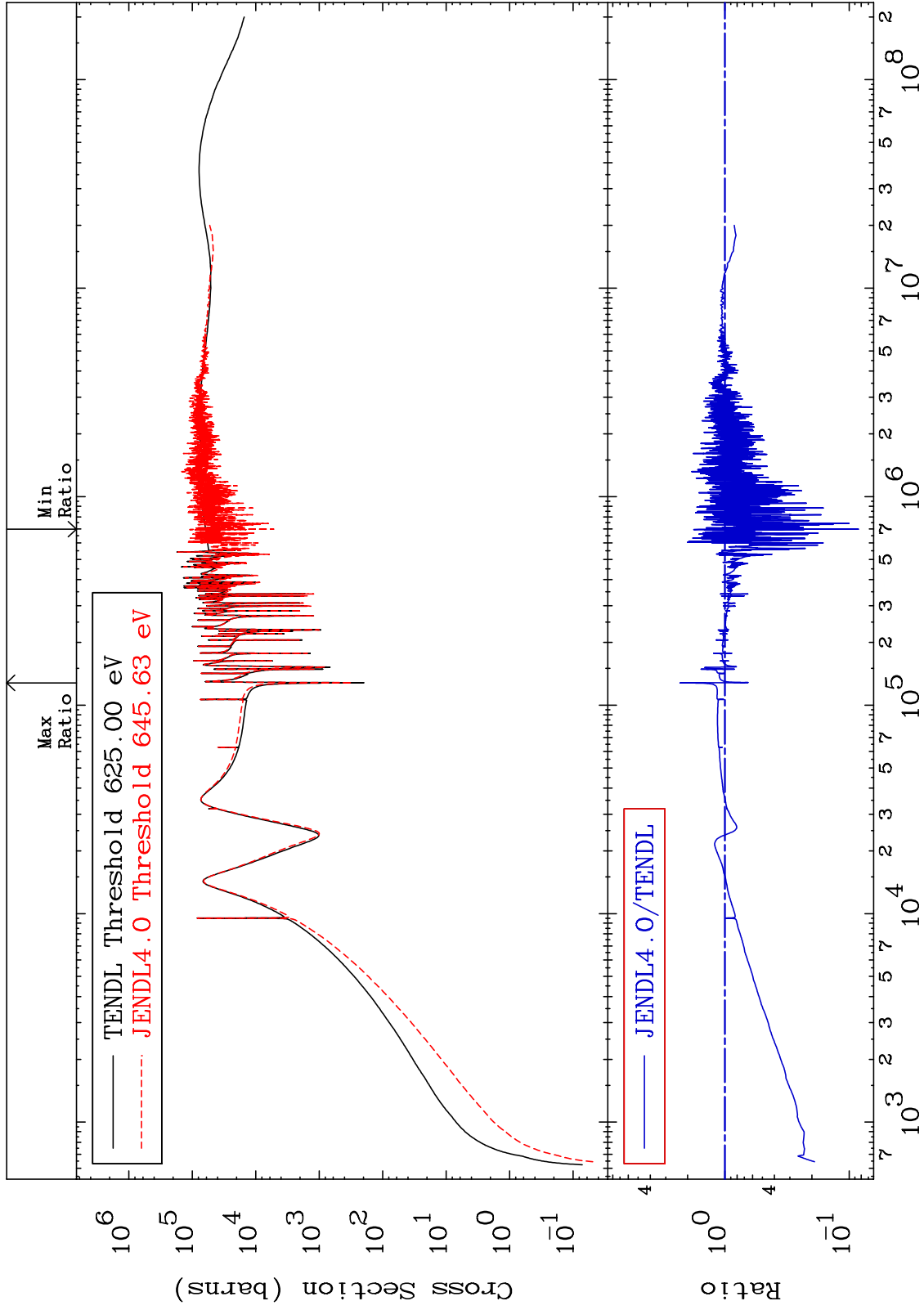
Incident Energy (eV)

28-Ni-64

MAT 2843

Dpa elastic (mt2)
Cross Section

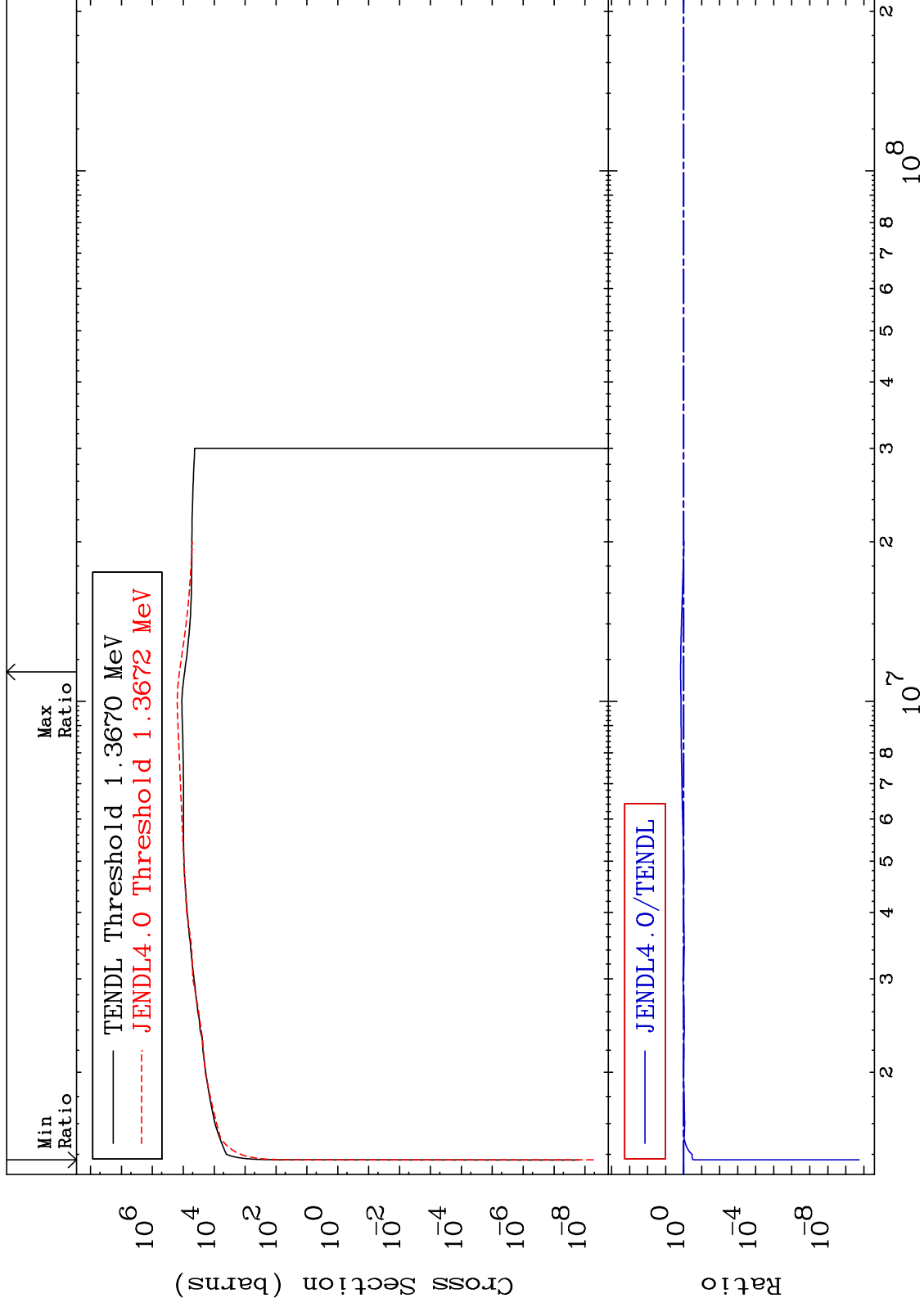
28-Ni-64
-91.57 To 130.1 %



MAT 2843

Dpa inelastic (mt51-91)
Cross Section

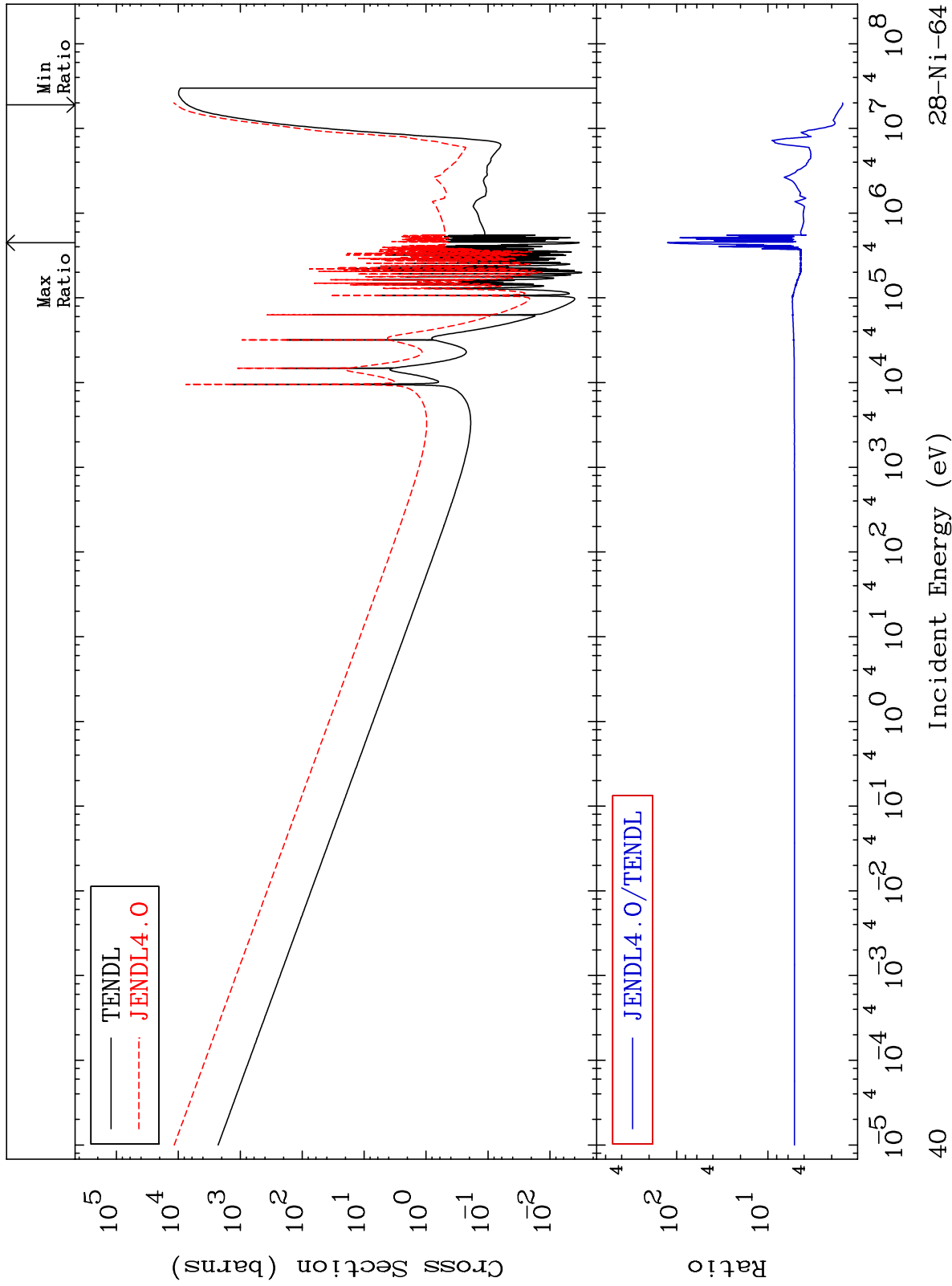
28-Ni-64
-100.0 To 47.32 %



MAT 2843

Dpa disappearance (mt102 -120)
Cross Section

51.30 To 9999. %
28-Ni-64



40

28-Ni-64

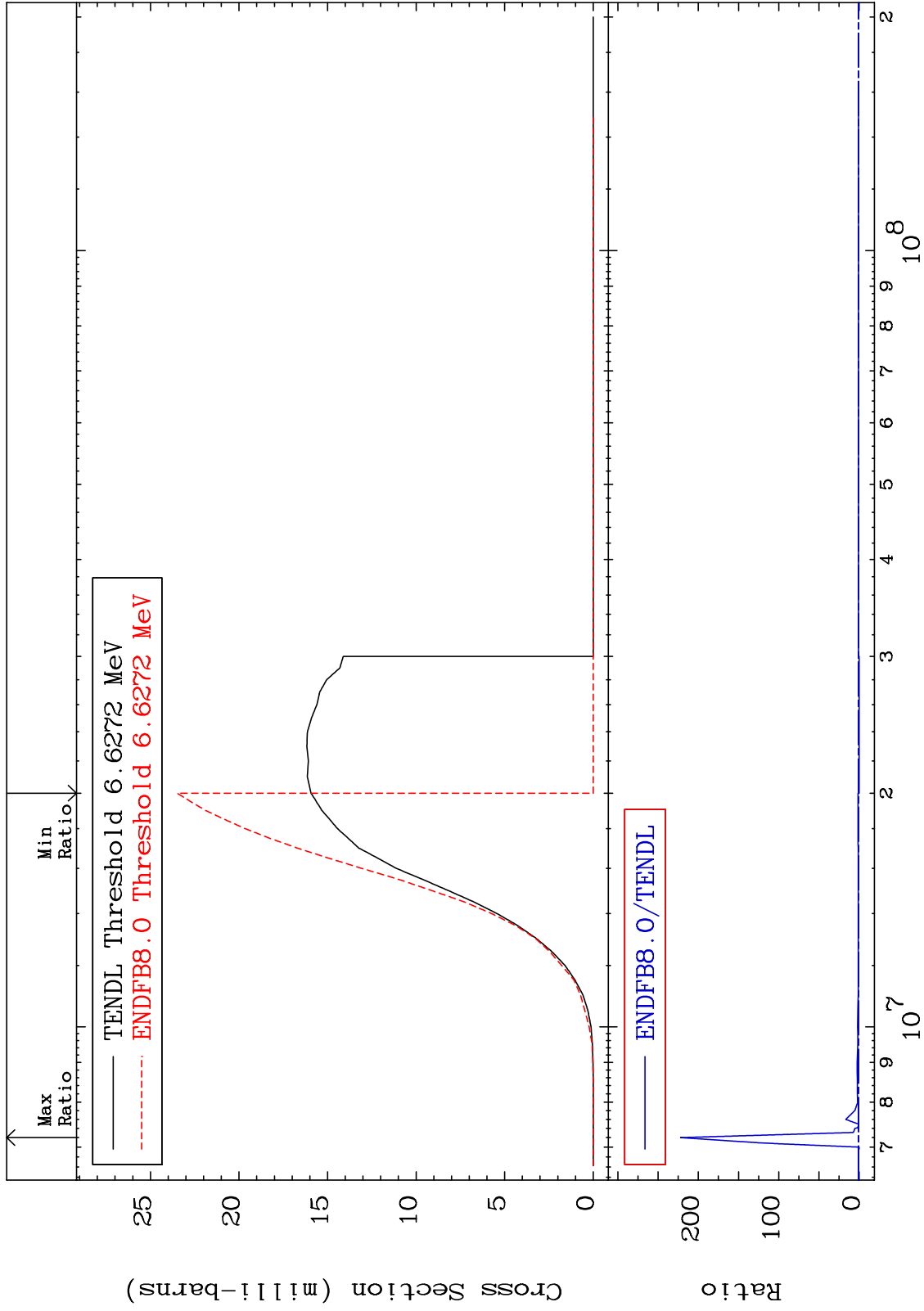
MAT 2843

(n,p)

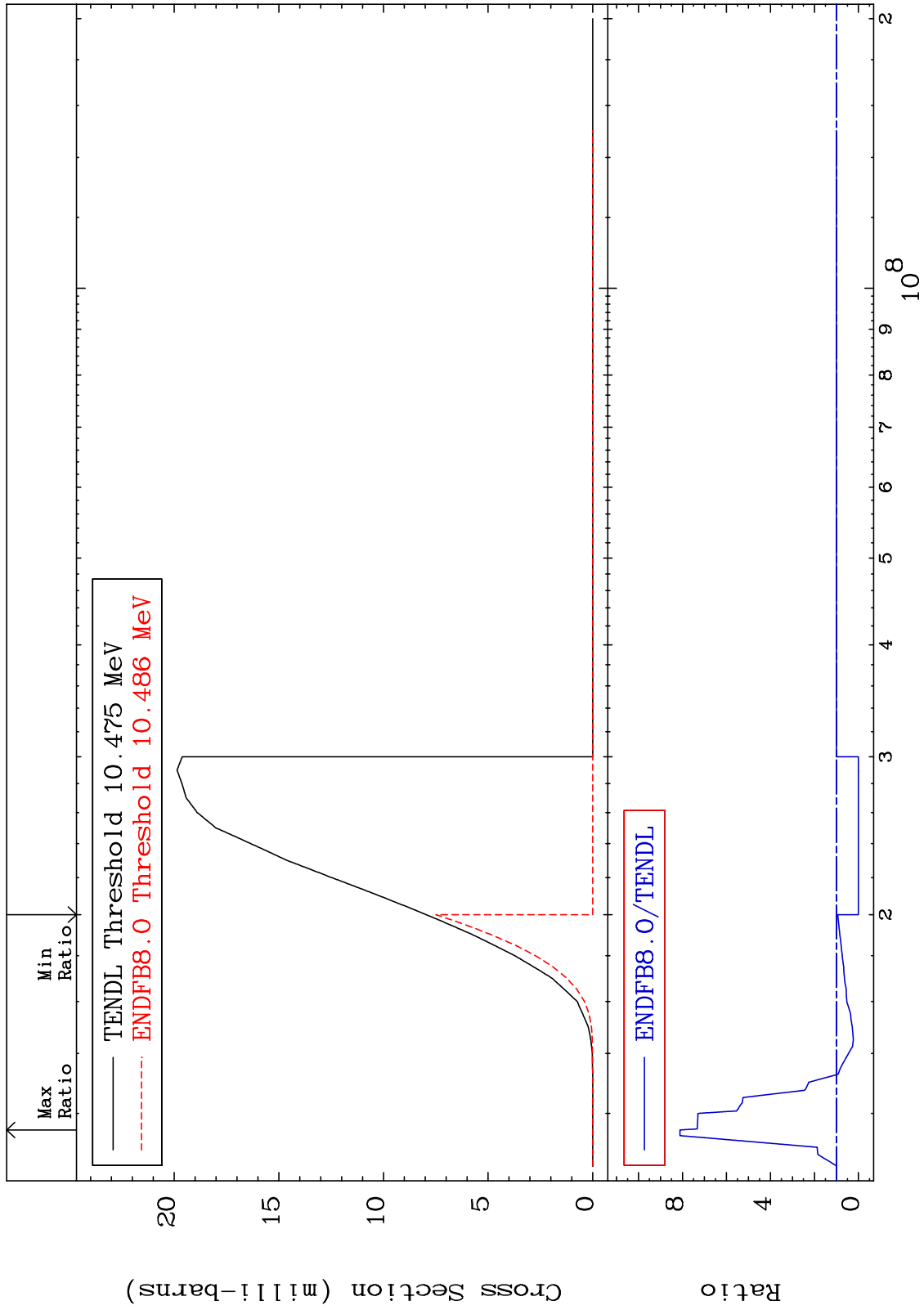
²⁸Ni-64

Cross Section

-100.0 To 9999. %



MAT 2843 (n,d) Cross Section 28-Ni-64 -100.0 To 711.2 %



42 28-Ni-64

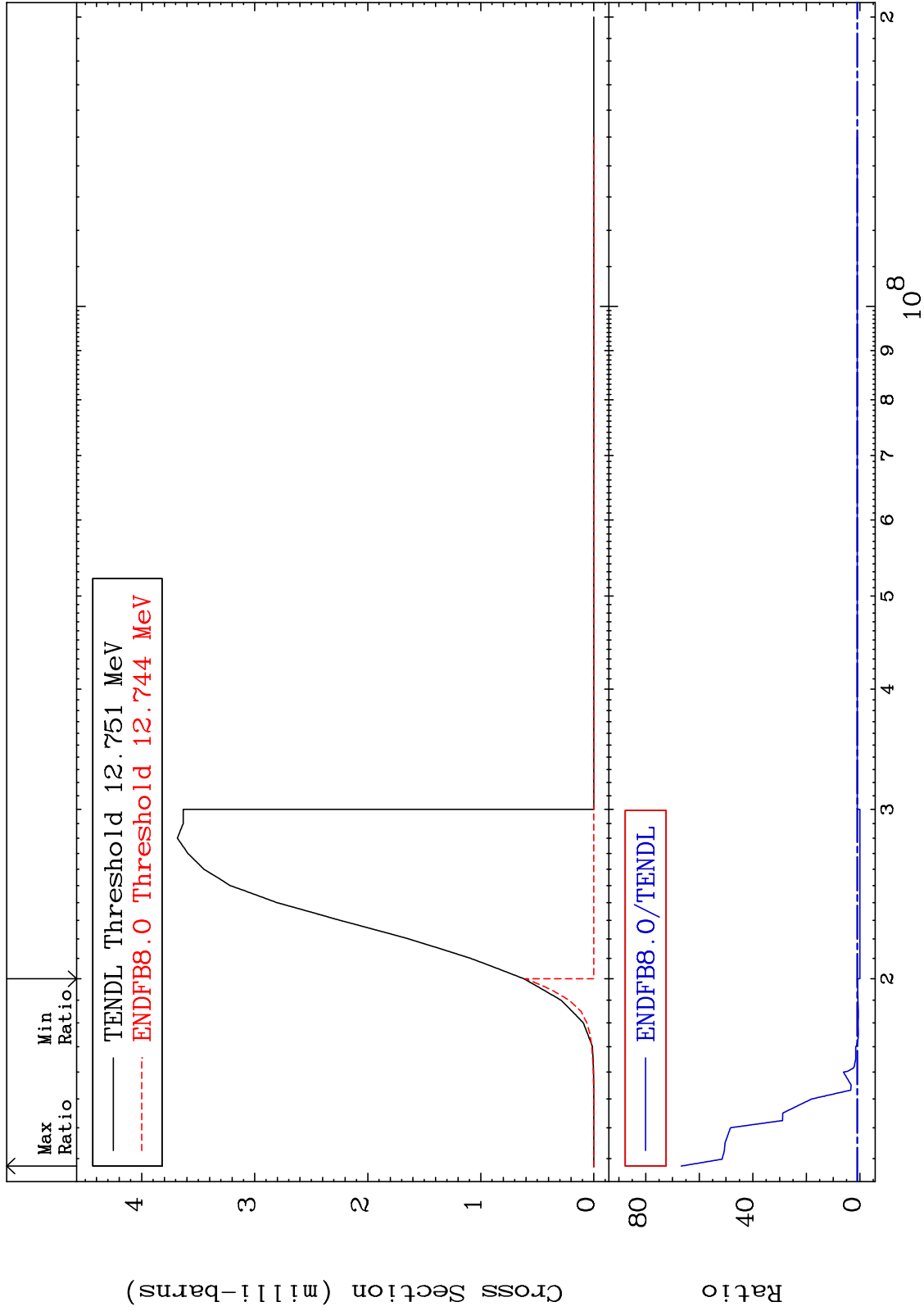
MAT 2843

(n, t)

²⁸Ni-64

Cross Section

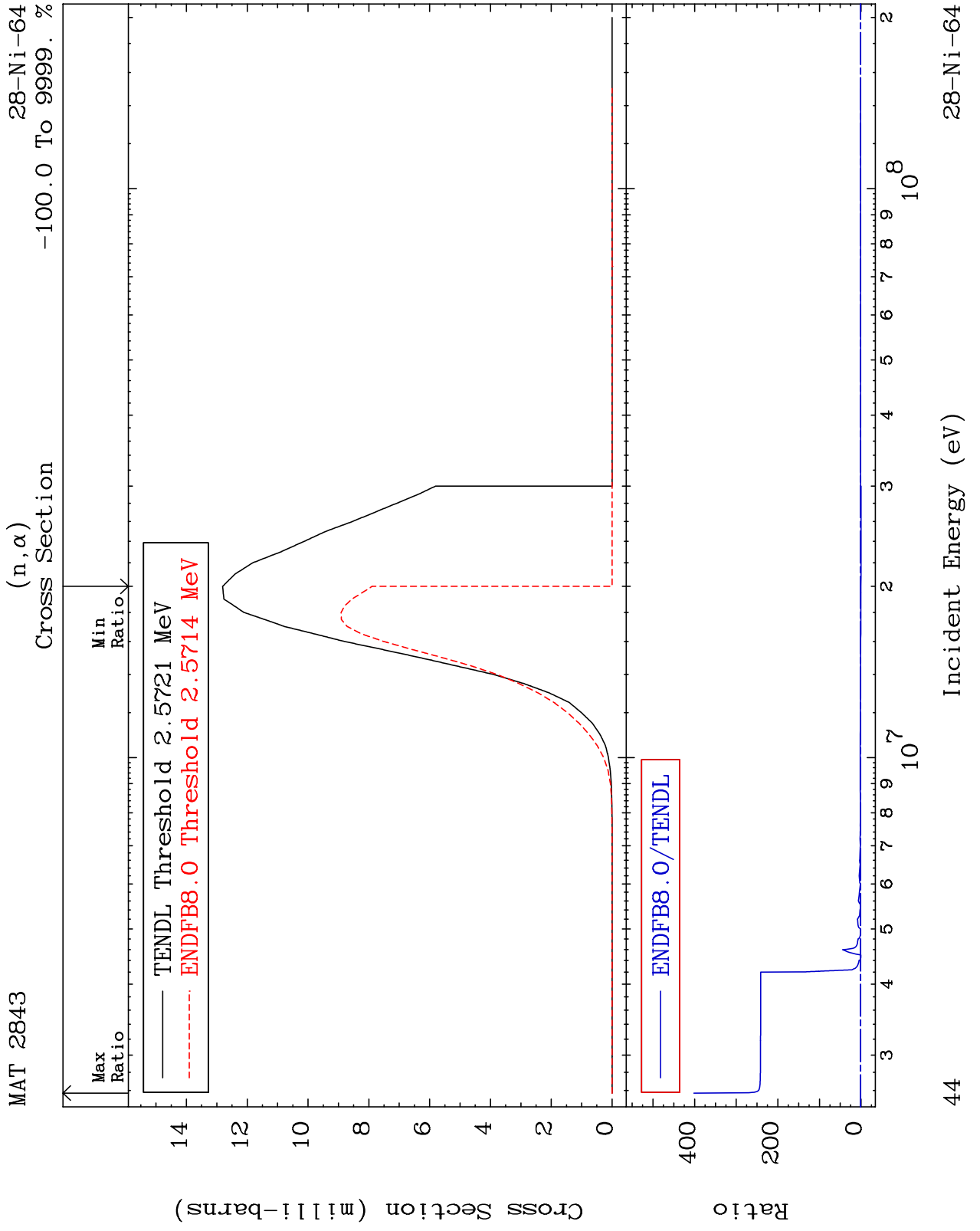
-100.0 To 6573. %



43

Incident Energy (eV)

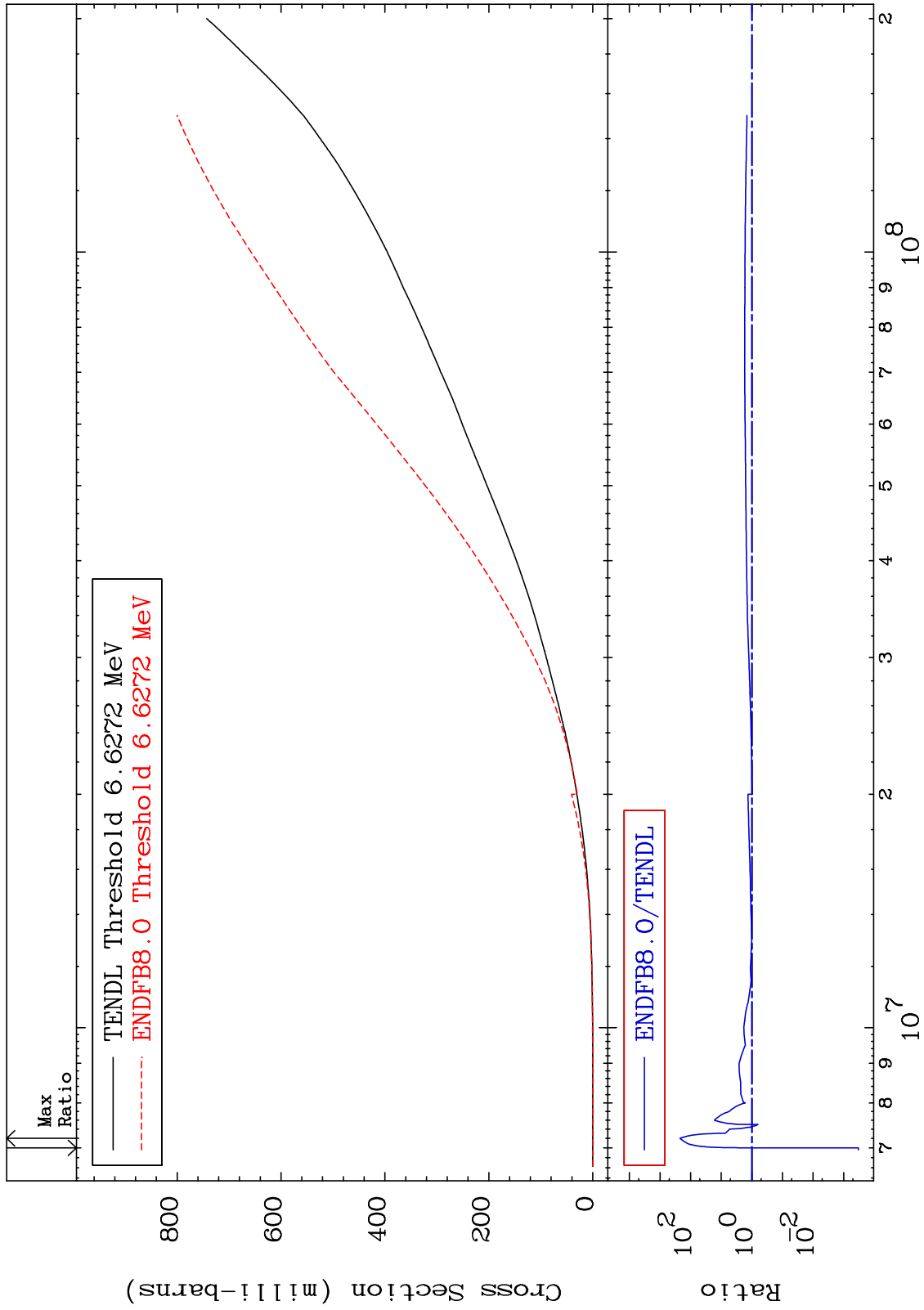
²⁸Ni-64



MAT 2843

Hydrogen Production
Cross Section

²⁸Ni-64
-99.97 To 9999. %



45

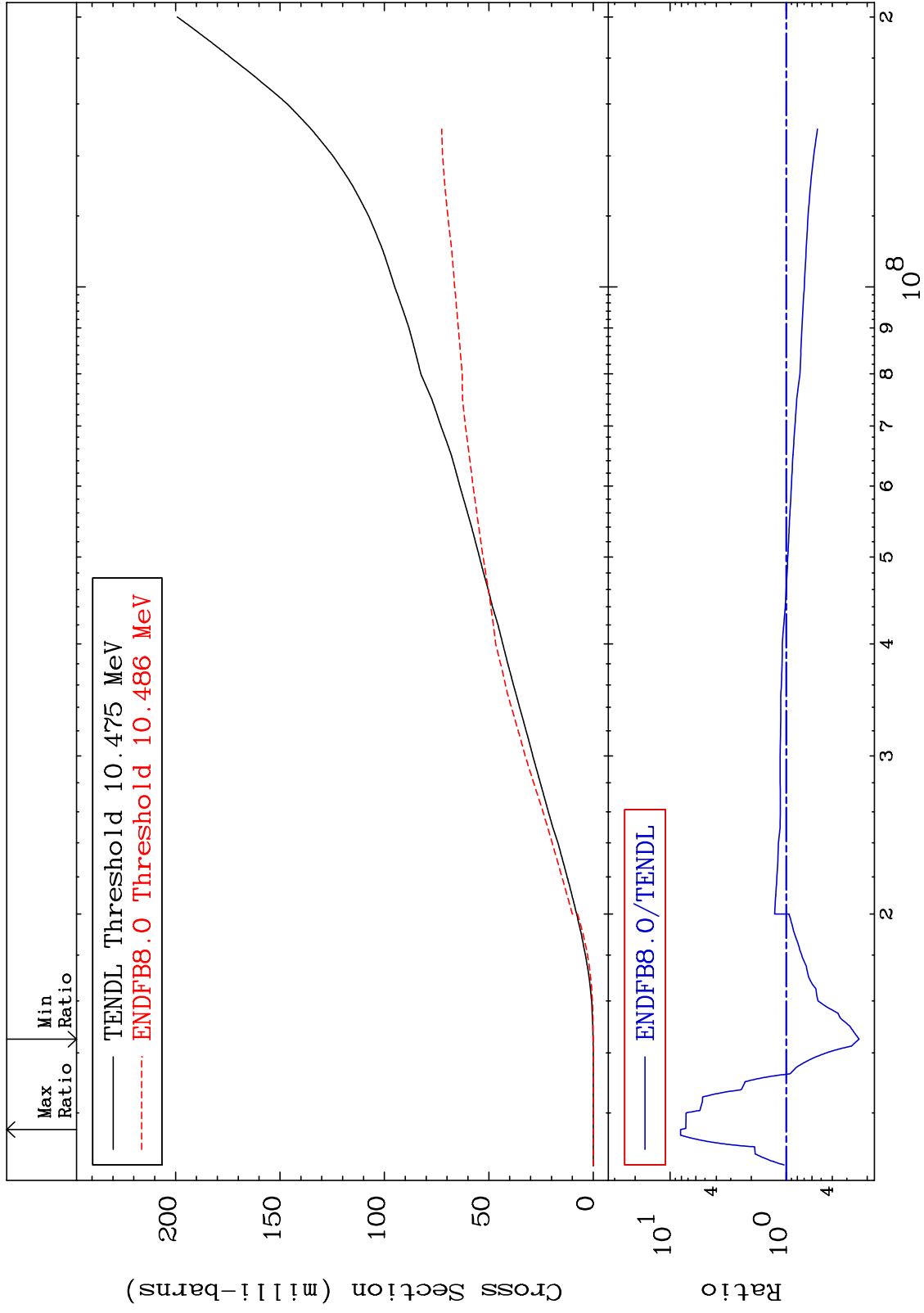
28-Ni-64

28-Ni-64

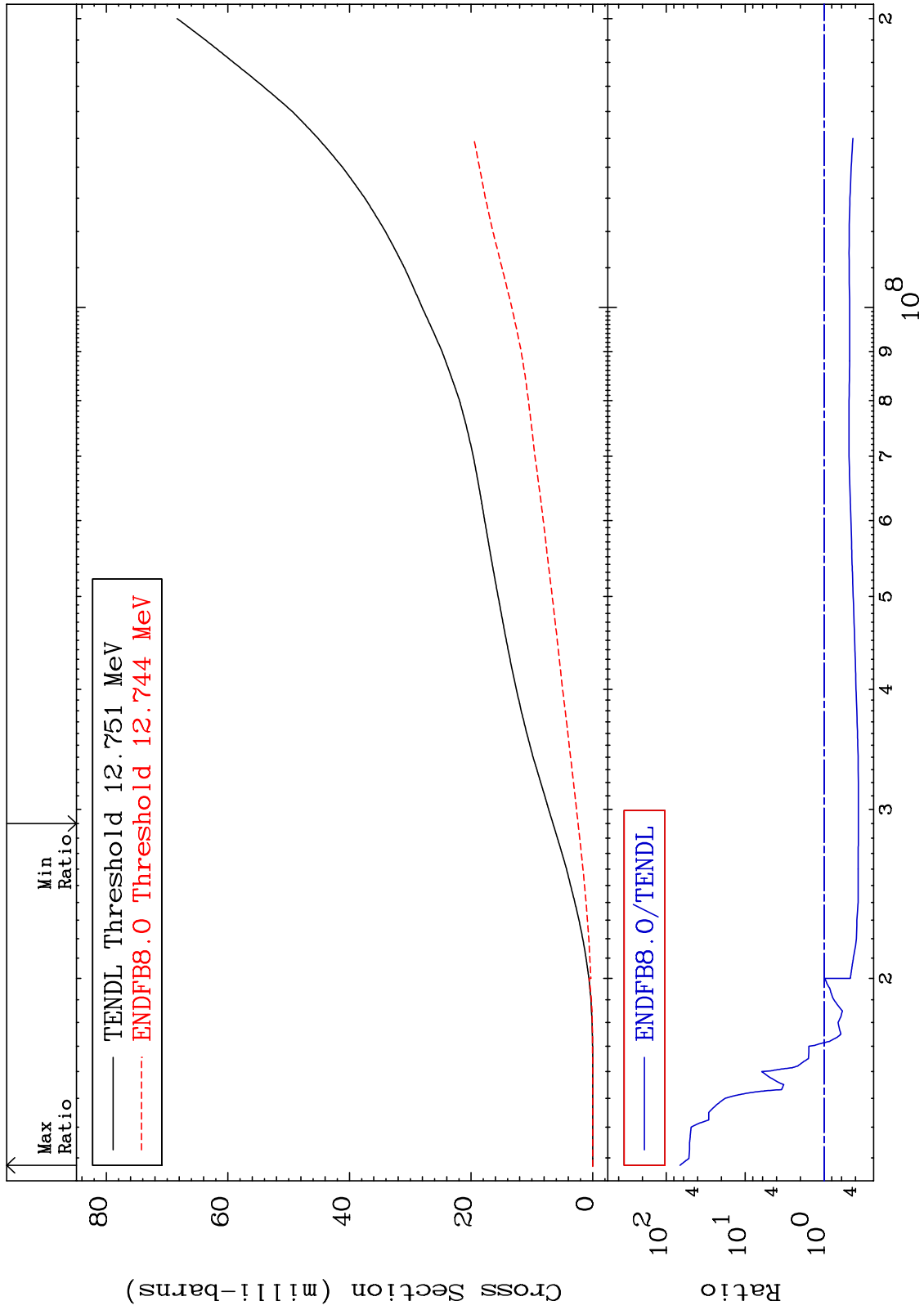
MAT 2843

Deuterium Production
Cross Section

$^{28}\text{Ni-64}$
-76.53 To 711.2 %



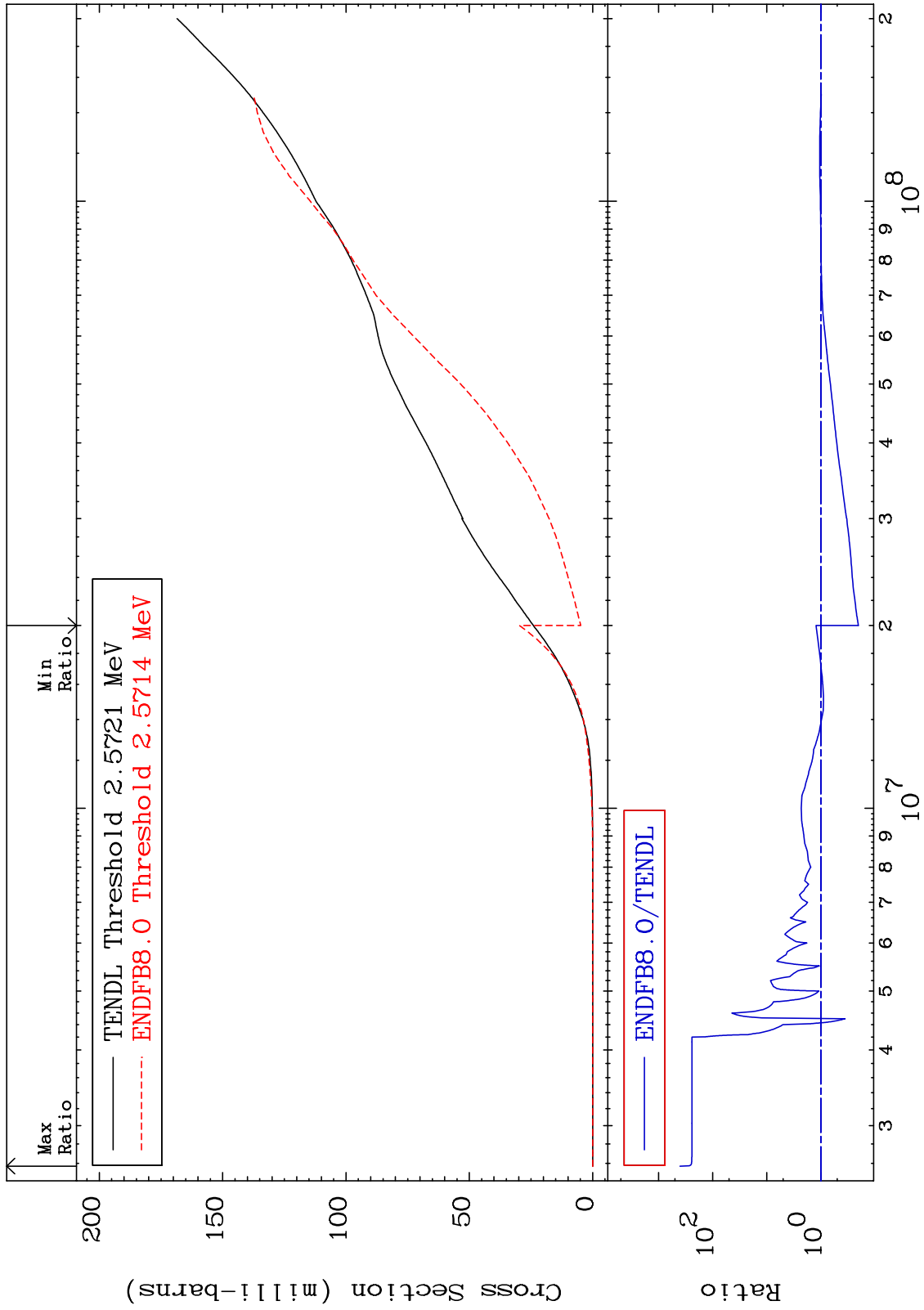
MAT 2843 Tritium Production Cross Section 28-Ni-64 -63.25 To 6573. %



MAT 2843

He-4 Production
Cross Section

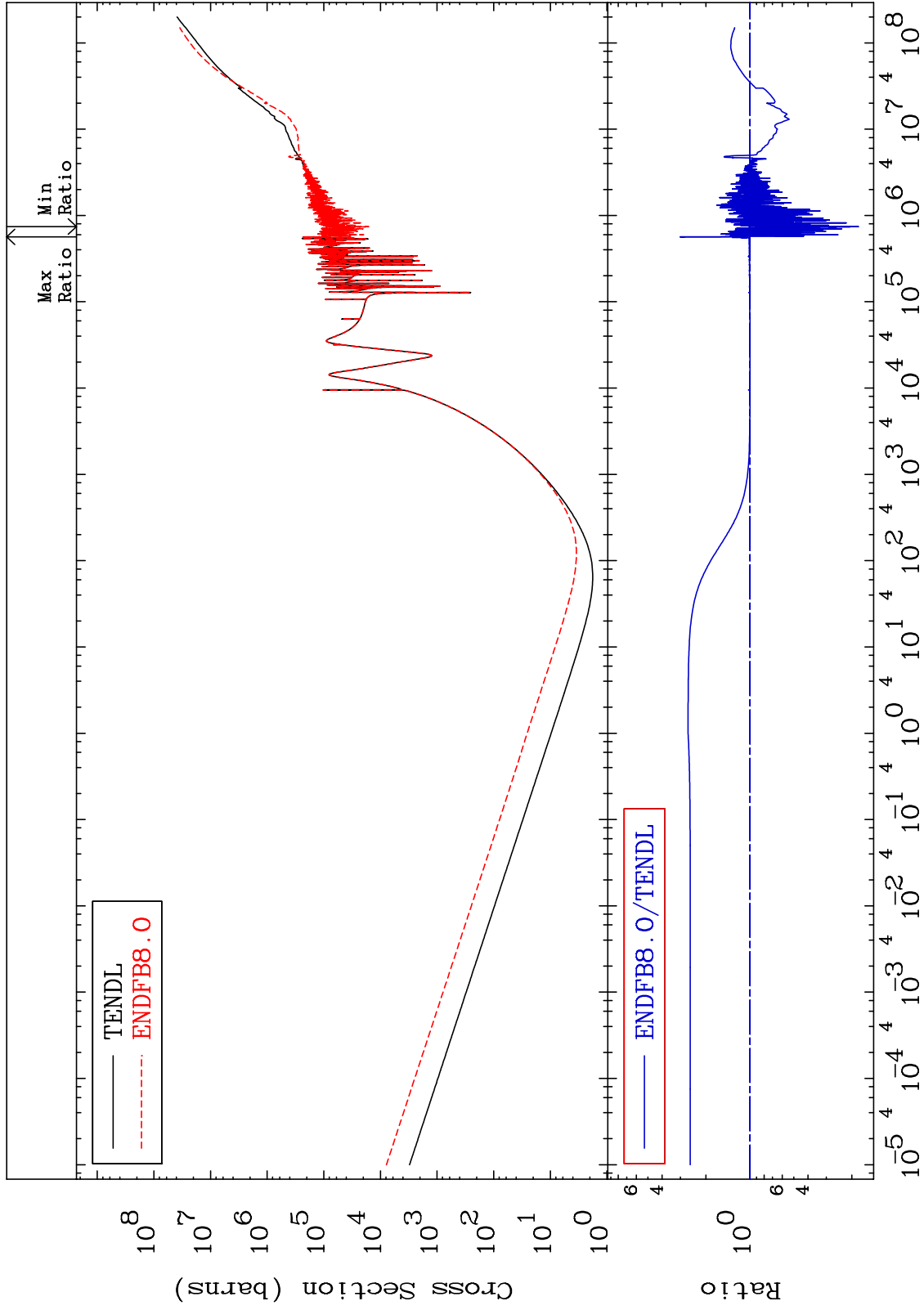
28-Ni-64
-79.71 To 9999. %



MAT 2843

Kerma total (eV-barns)
Cross Section

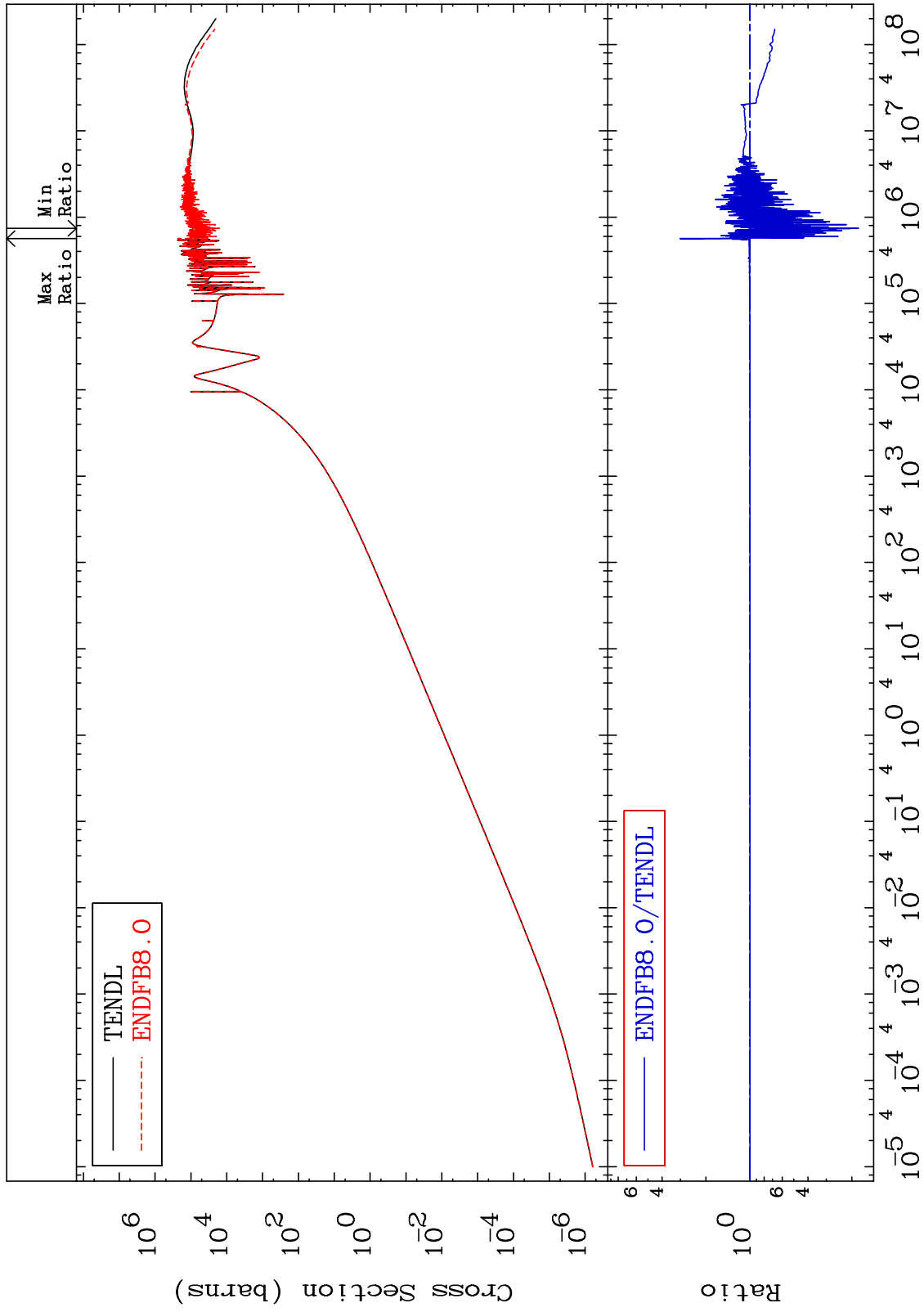
28-Ni-64
-81.95 To 201.4 %



MAT 2843

Kerma elastic
Cross Section

28-Ni-64
-81.95 To 201.4 %



50

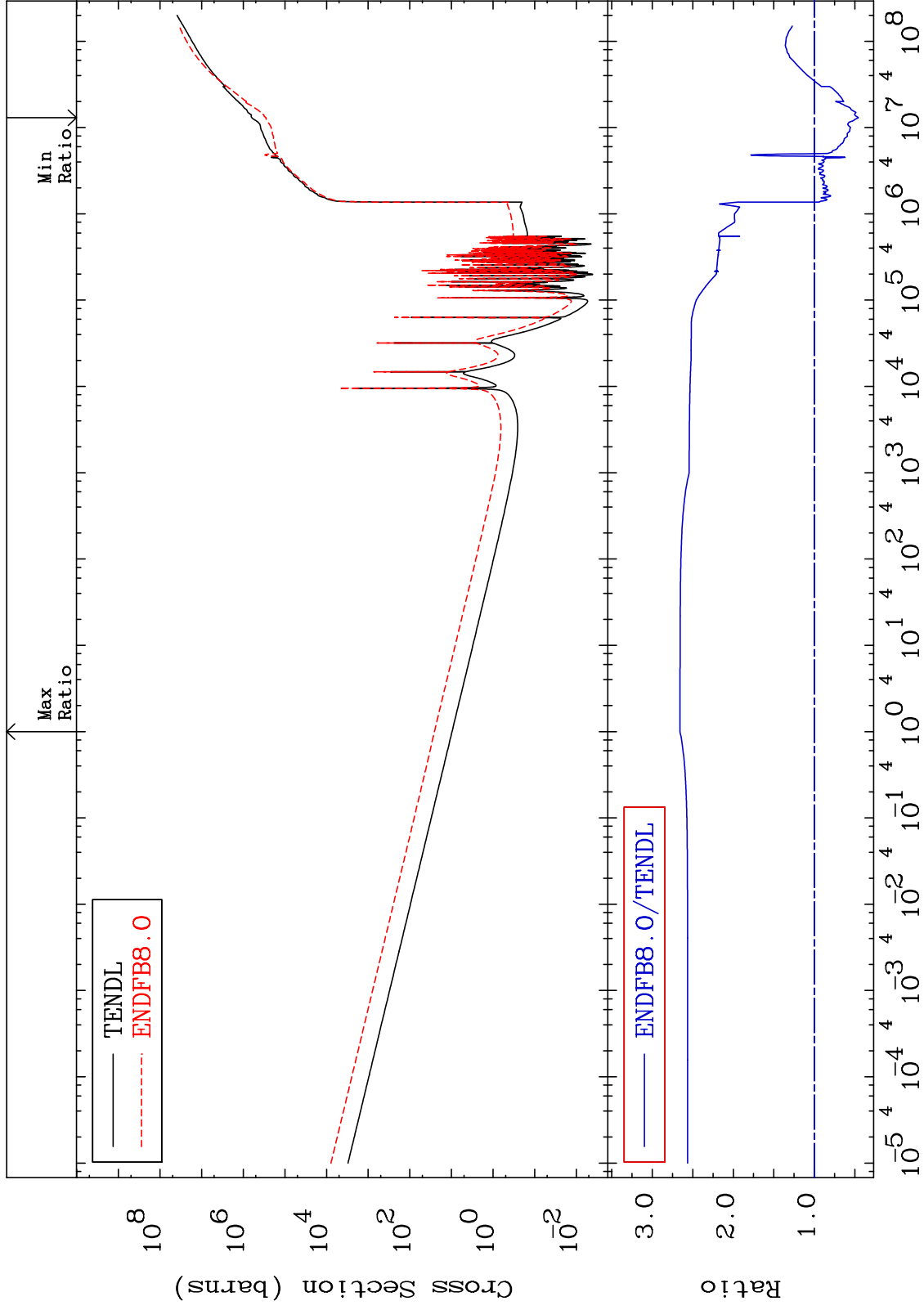
Incident Energy (eV)

28-Ni-64

MAT 2843

Kerma non-elastic (all but mt2)
Cross Section

28-Ni-64
-54.41 To 165.7 %



51

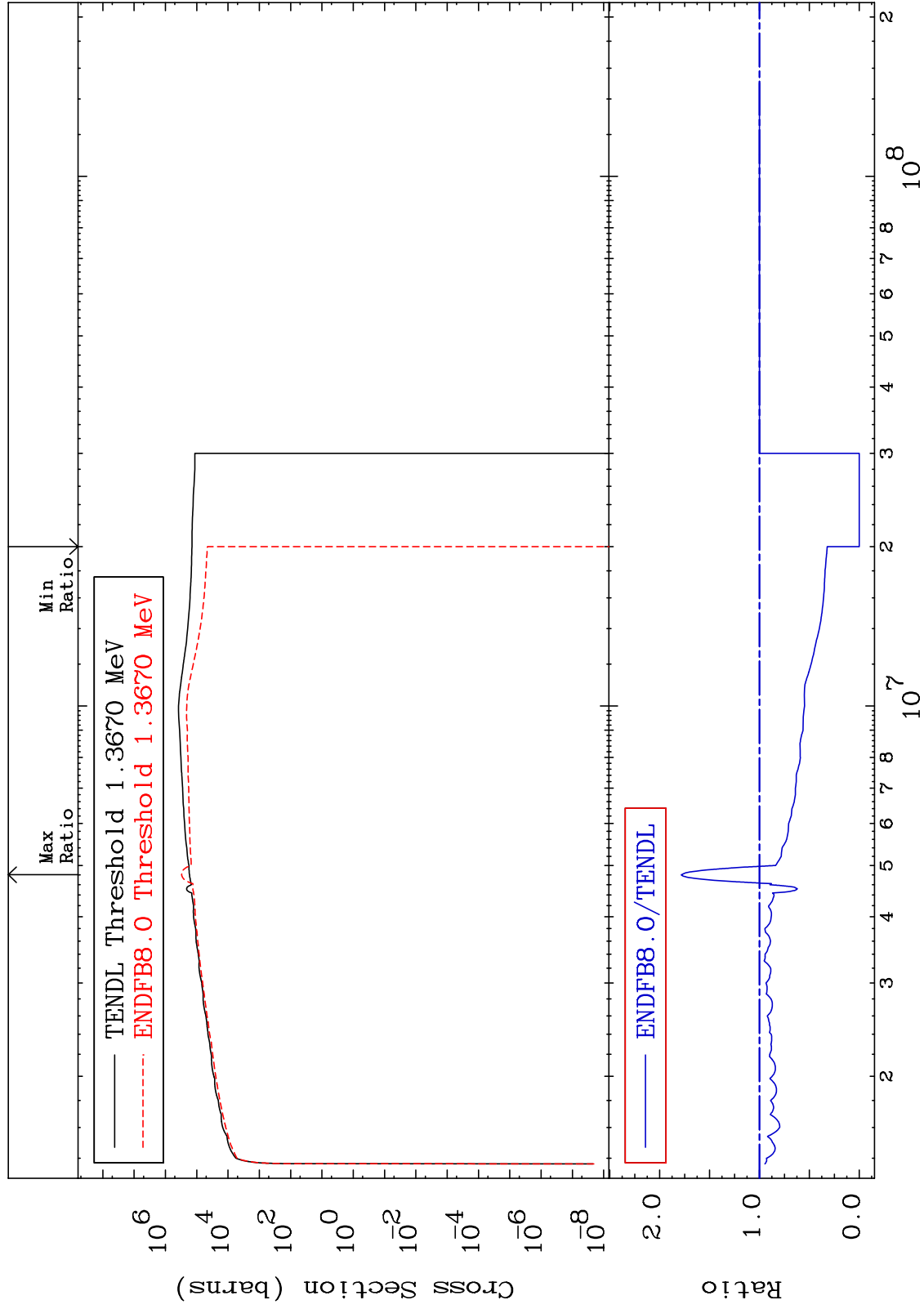
Incident Energy (eV)

28-Ni-64

MAT 2843

Kerma inelastic (mt51-91)
Cross Section

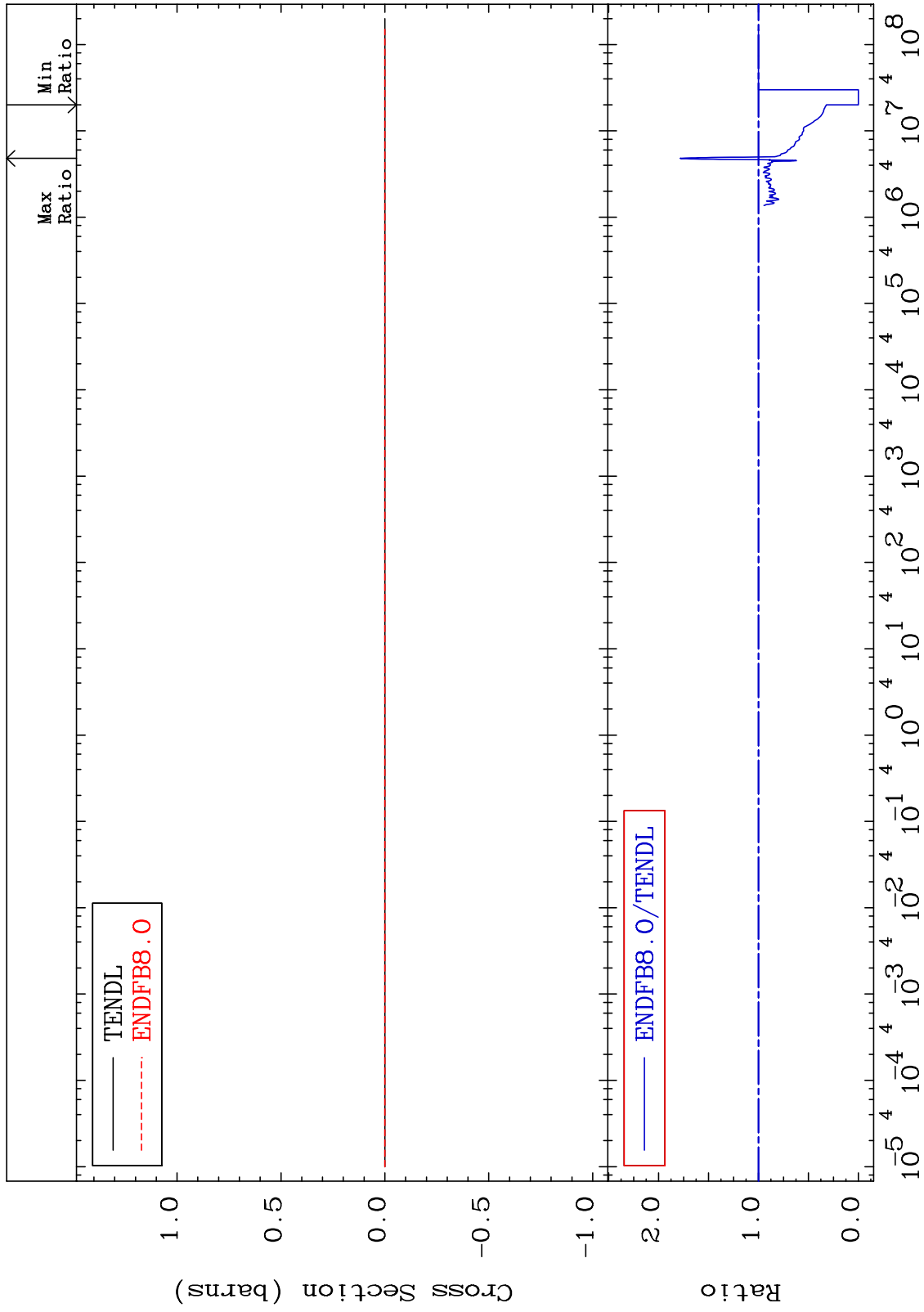
28-Ni-64
-100.0 To 78.56 %



MAT 2843

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

28-Ni-64
-100.0 To 78.56 %



53

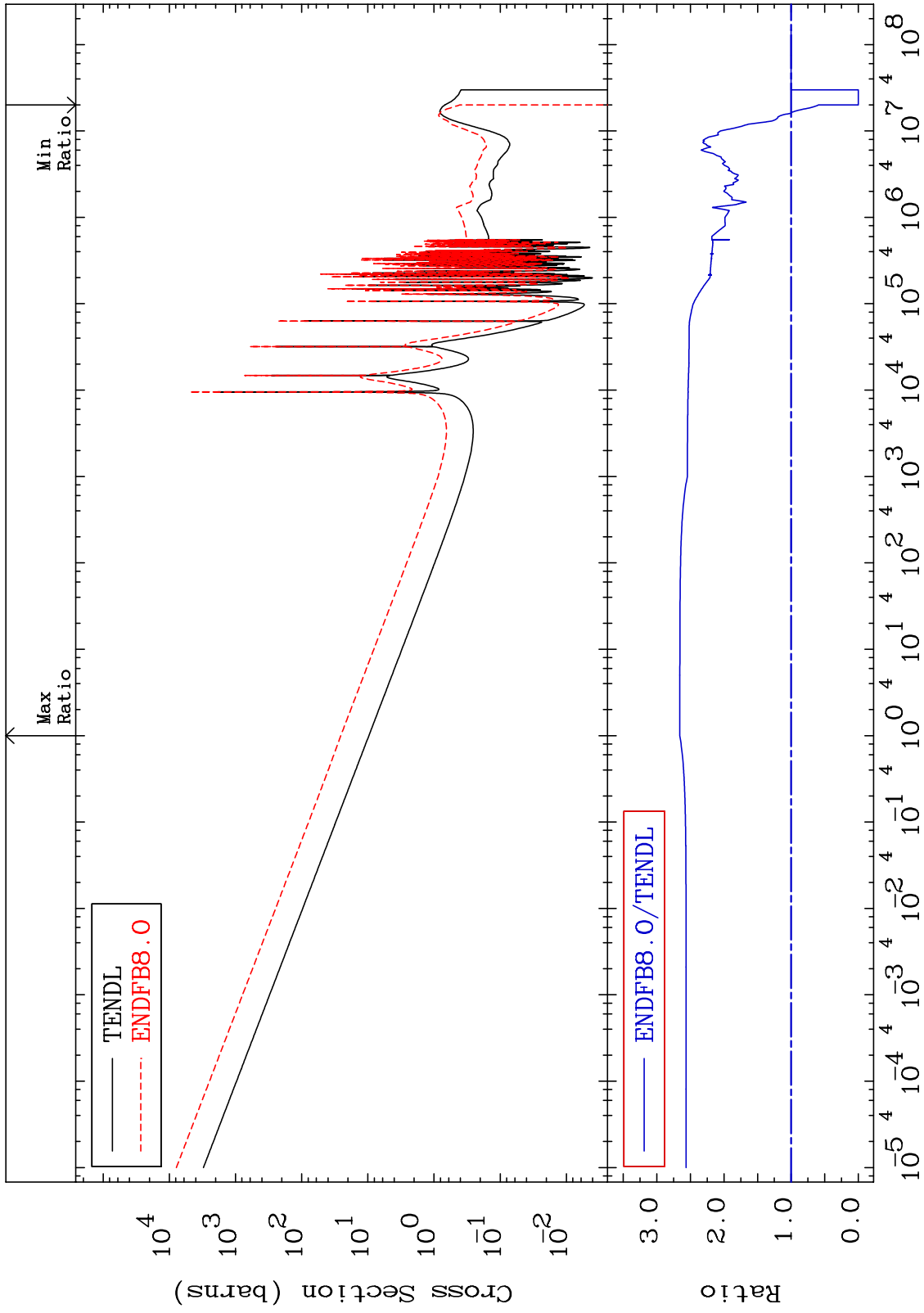
Incident Energy (eV)

28-Ni-64

MAT 2843

Kerma capture (mt102)
Cross Section

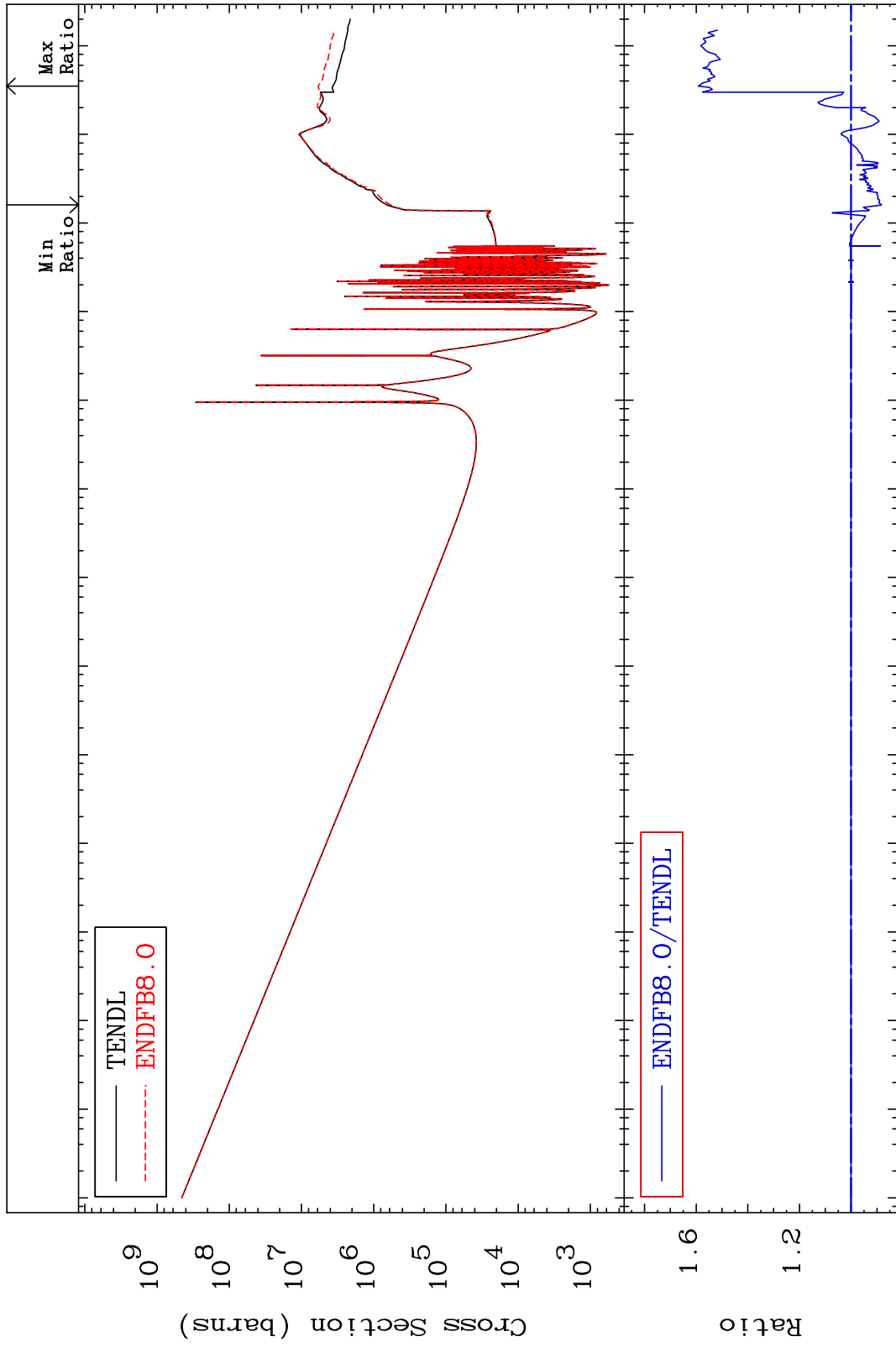
28-Ni-64
-100.0 To 165.7 %



MAT 2843

Total photon (eV-barns)
Cross Section

28-Ni-64
-11.79 To 59.16 %



55

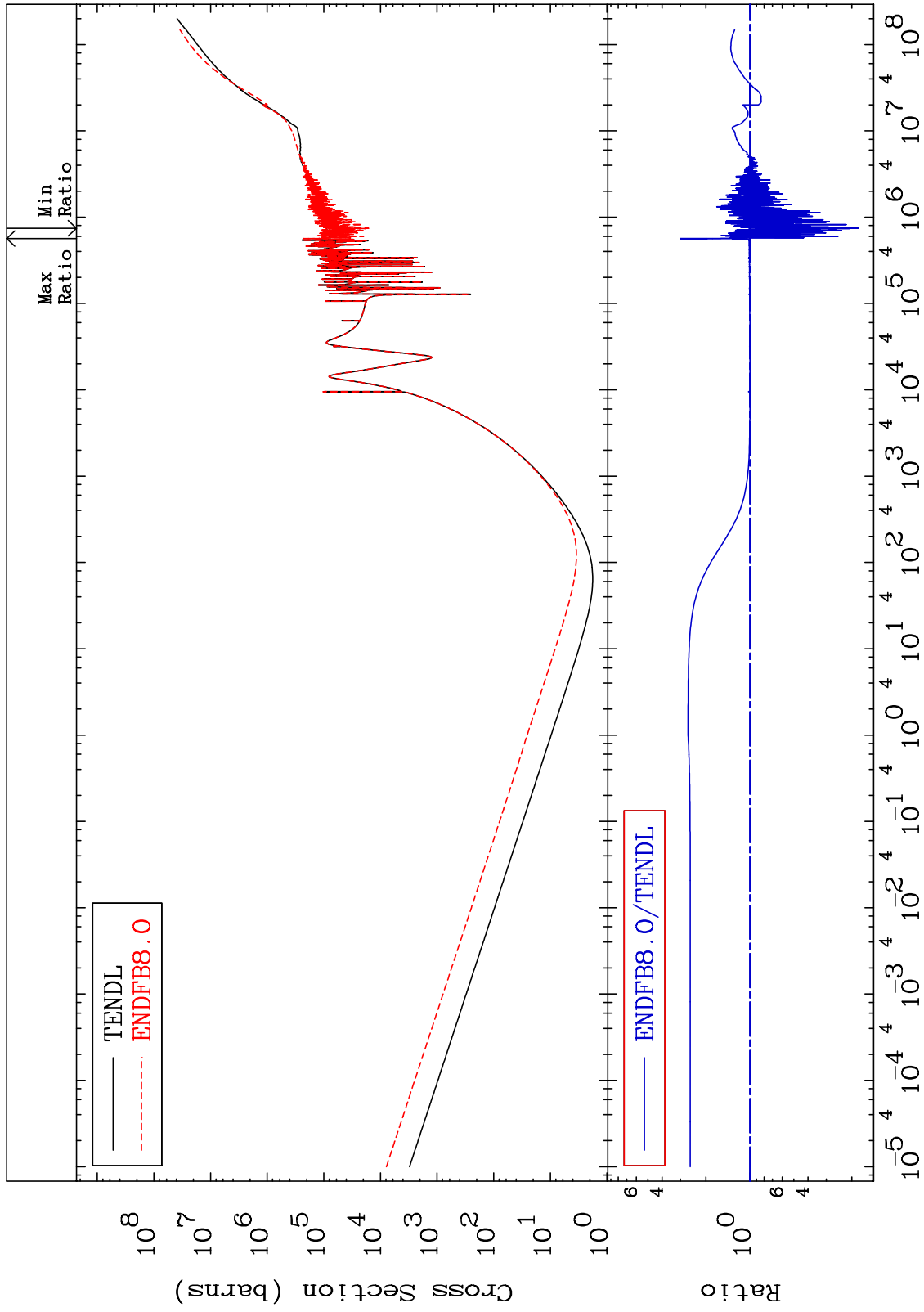
Incident Energy (eV)

28-Ni-64

MAT 2843

Total kinematic kerma (high limit)
Cross Section

28-Ni-64
-81.95 To 201.4 %



56

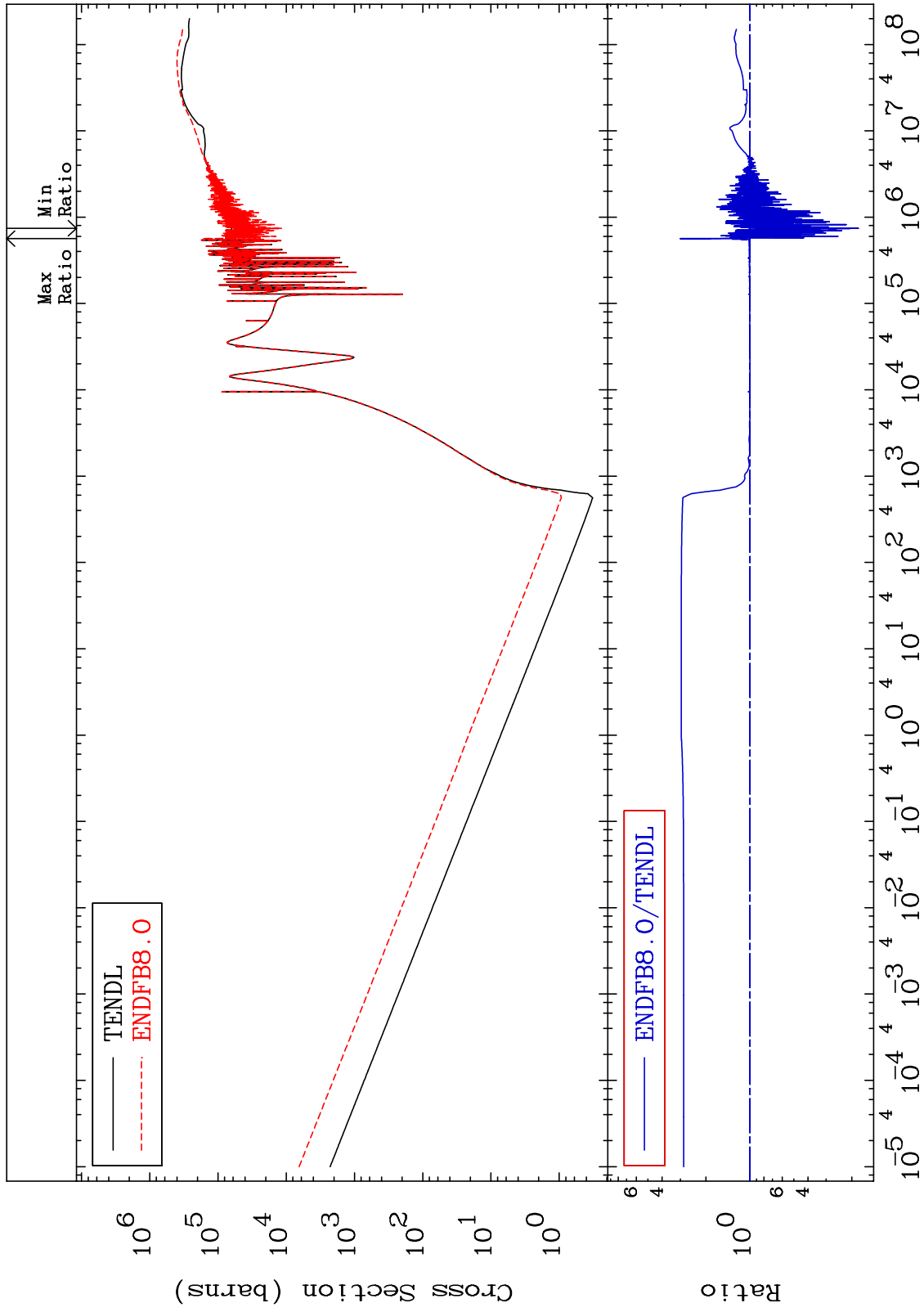
Incident Energy (eV)

28-Ni-64

MAT 2843

Dpa total (eV-barns)
Cross Section

28-Ni-64
-81.97 To 201.3 %



57

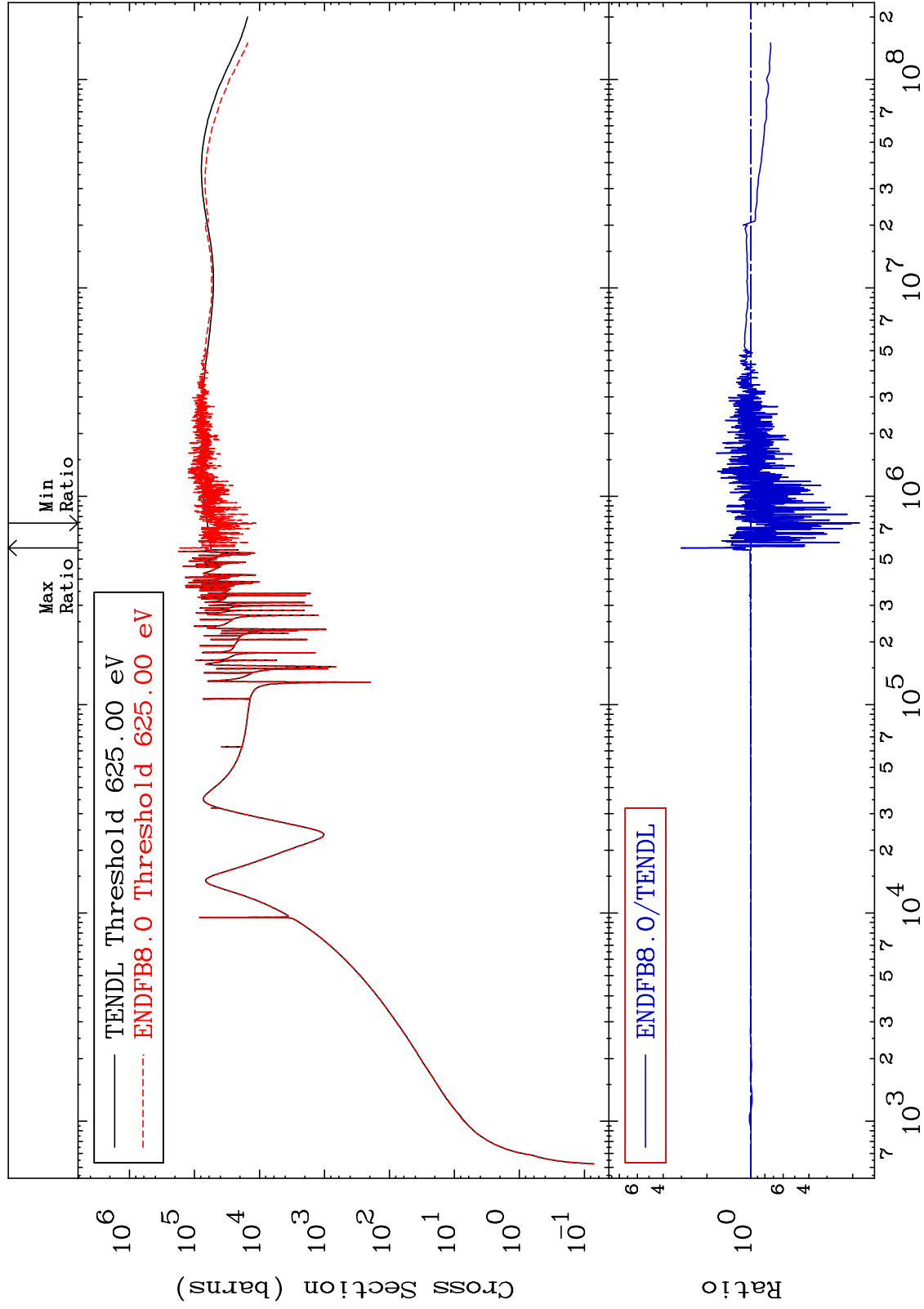
Incident Energy (eV)

28-Ni-64

MAT 2843

Dpa elastic (mt2)
Cross Section

28-Ni-64
-81.97 To 201.3 %



58

Incident Energy (eV)

28-Ni-64

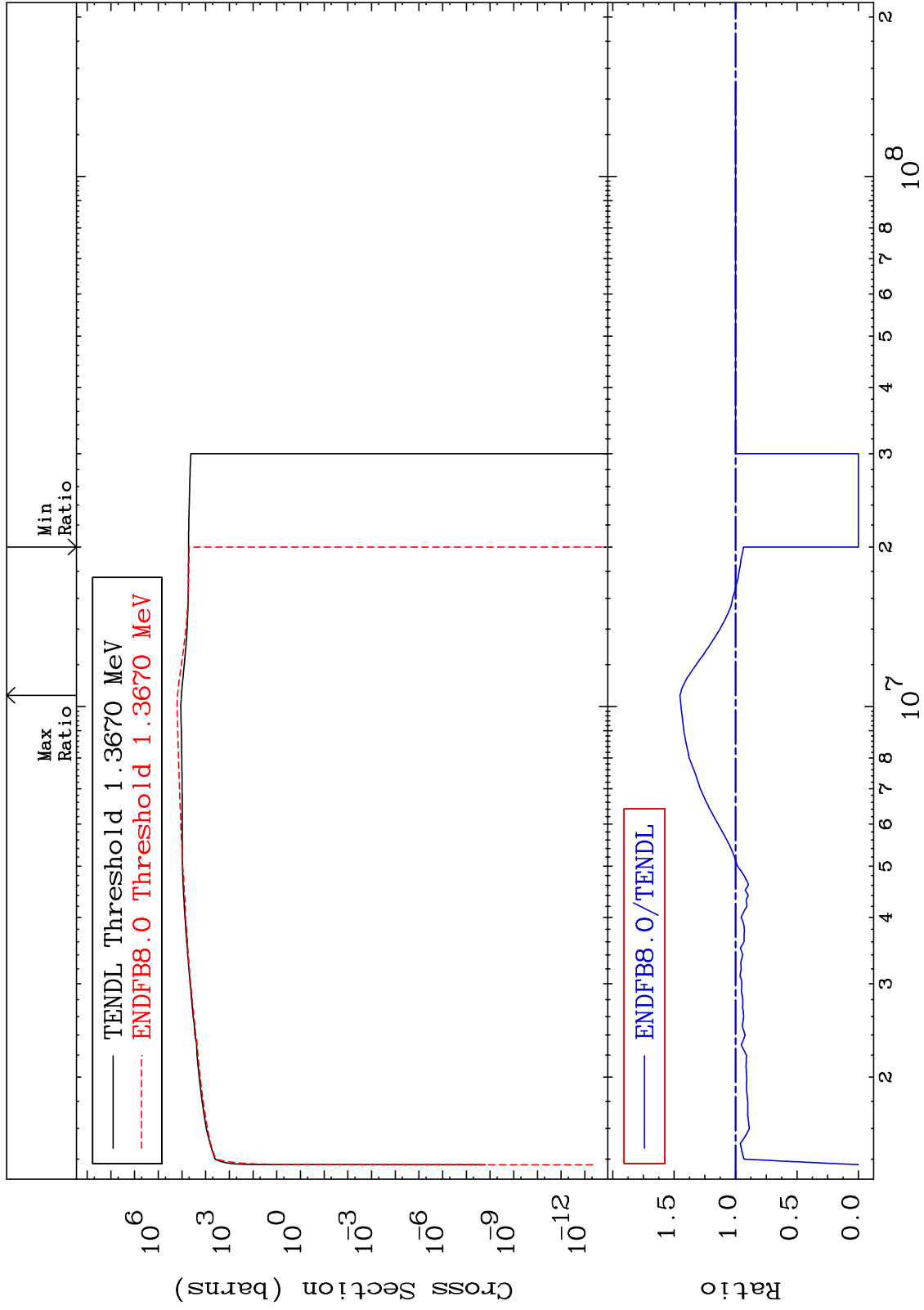
MAT 2843

Dpa inelastic (mt51-91)

28-Ni-64

-100.0 To 45.20 %

Cross Section



MAT 2843

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-64
-100.0 To 195.9 %

