

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

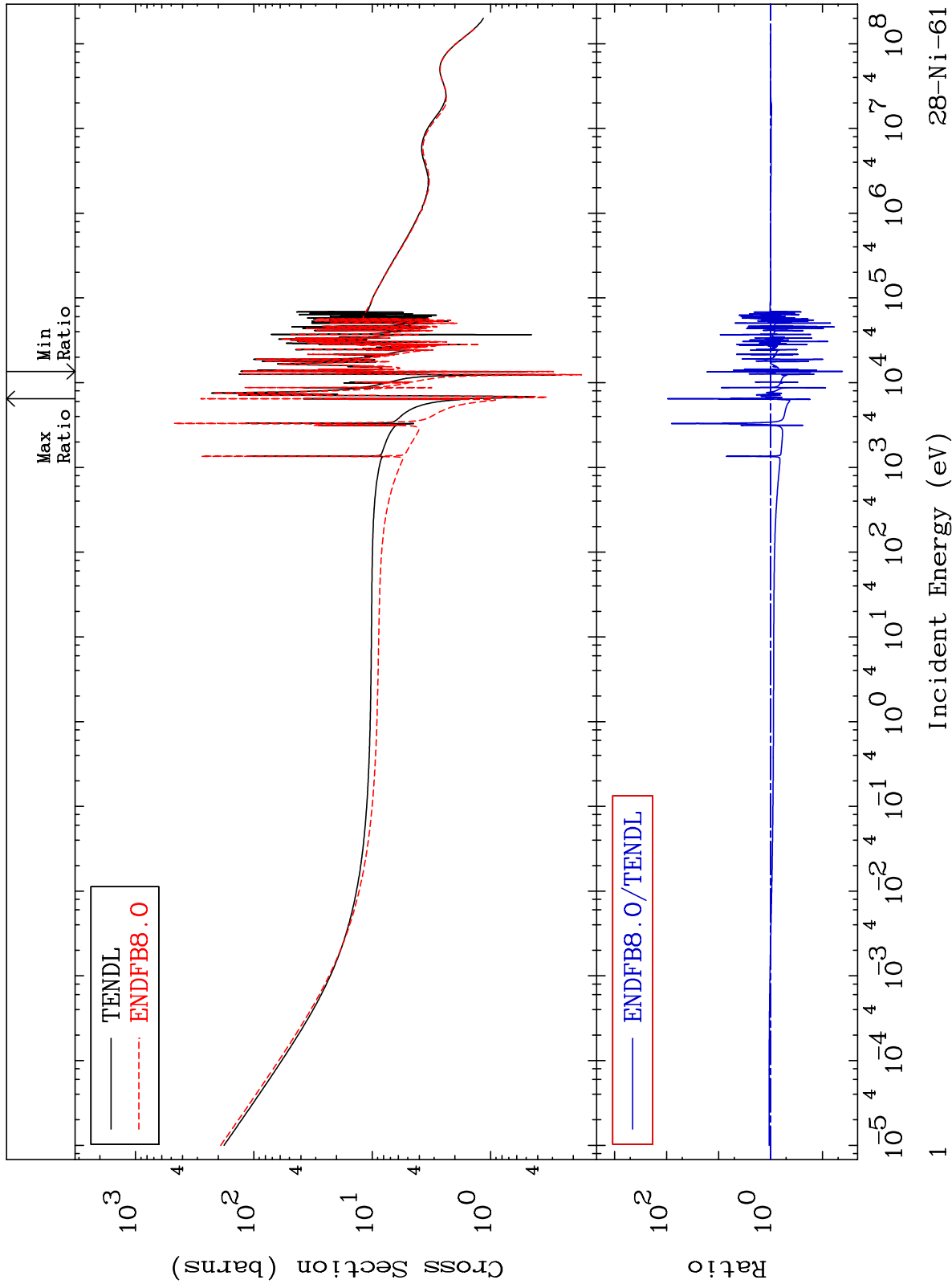
MAT 2834

Total

28-Ni-61

Cross Section

-95.91 To 9491. %



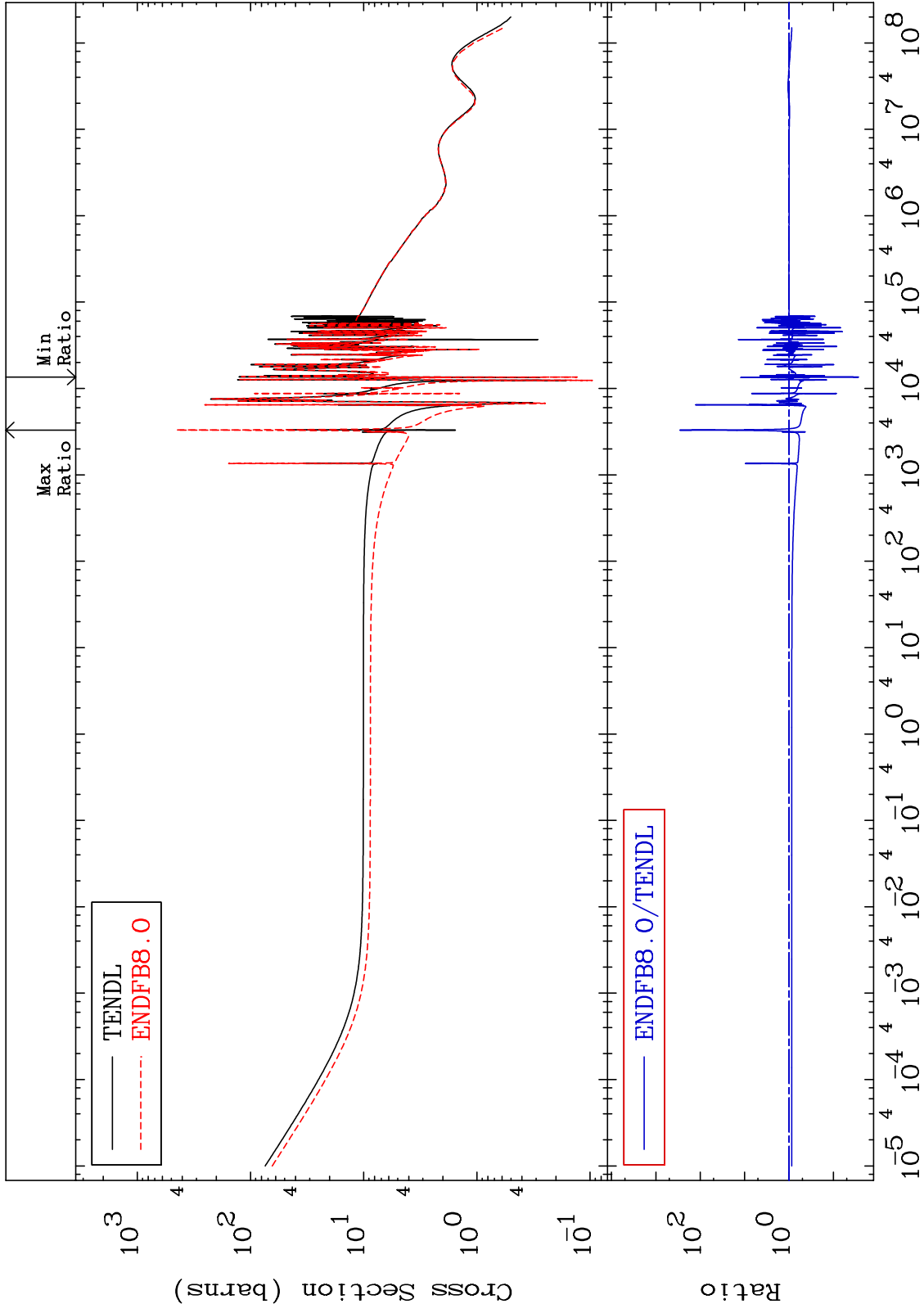
Incident Energy (eV)

28-Ni-61

MAT 2834

Elastic
Cross Section

28-Ni-61
-97.26 To 9999. %



Incident Energy (eV)

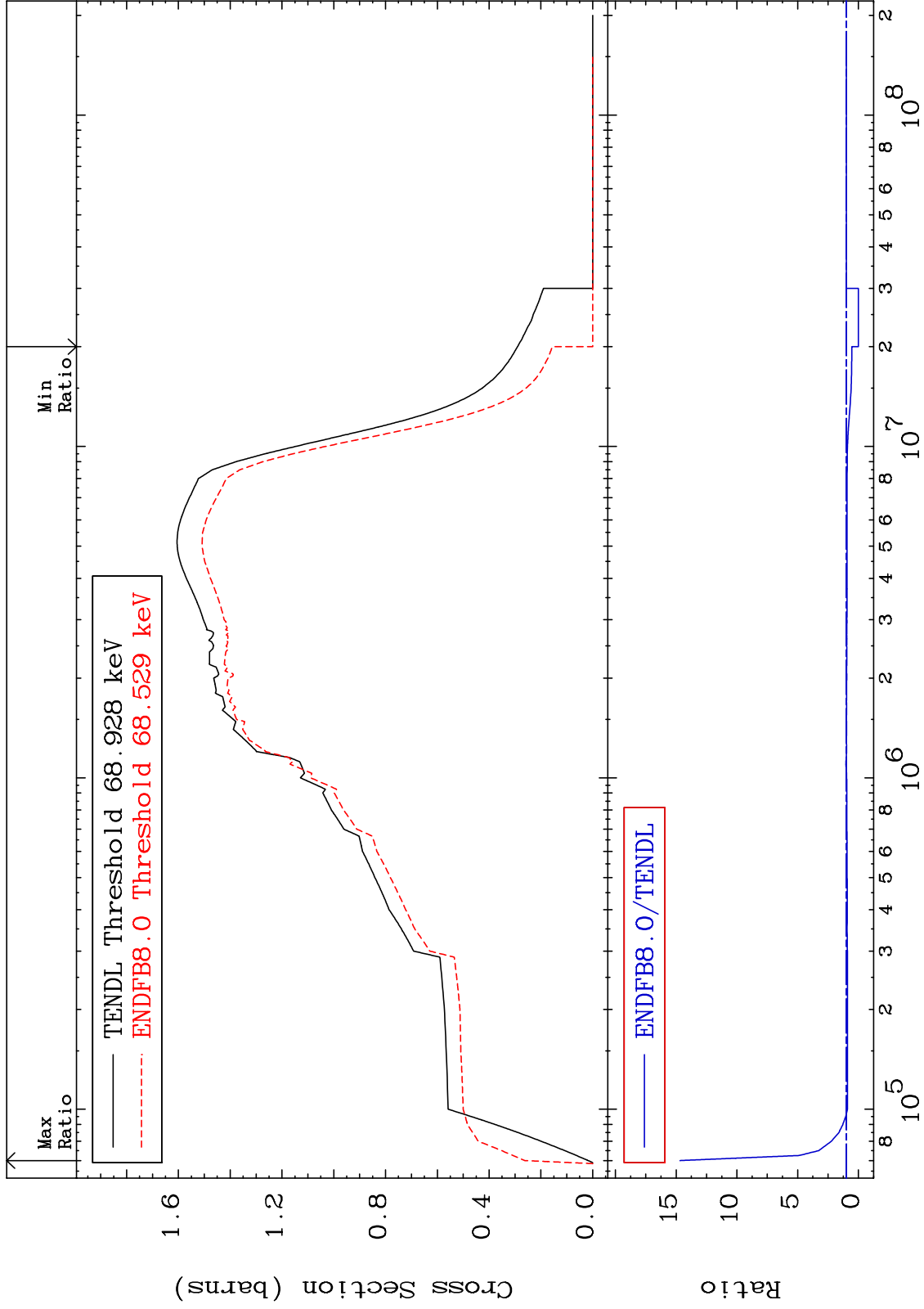
28-Ni-61

2

MAT 2834

Inelastic
Cross Section

28-Ni-61
-100.0 To 1368. %



3

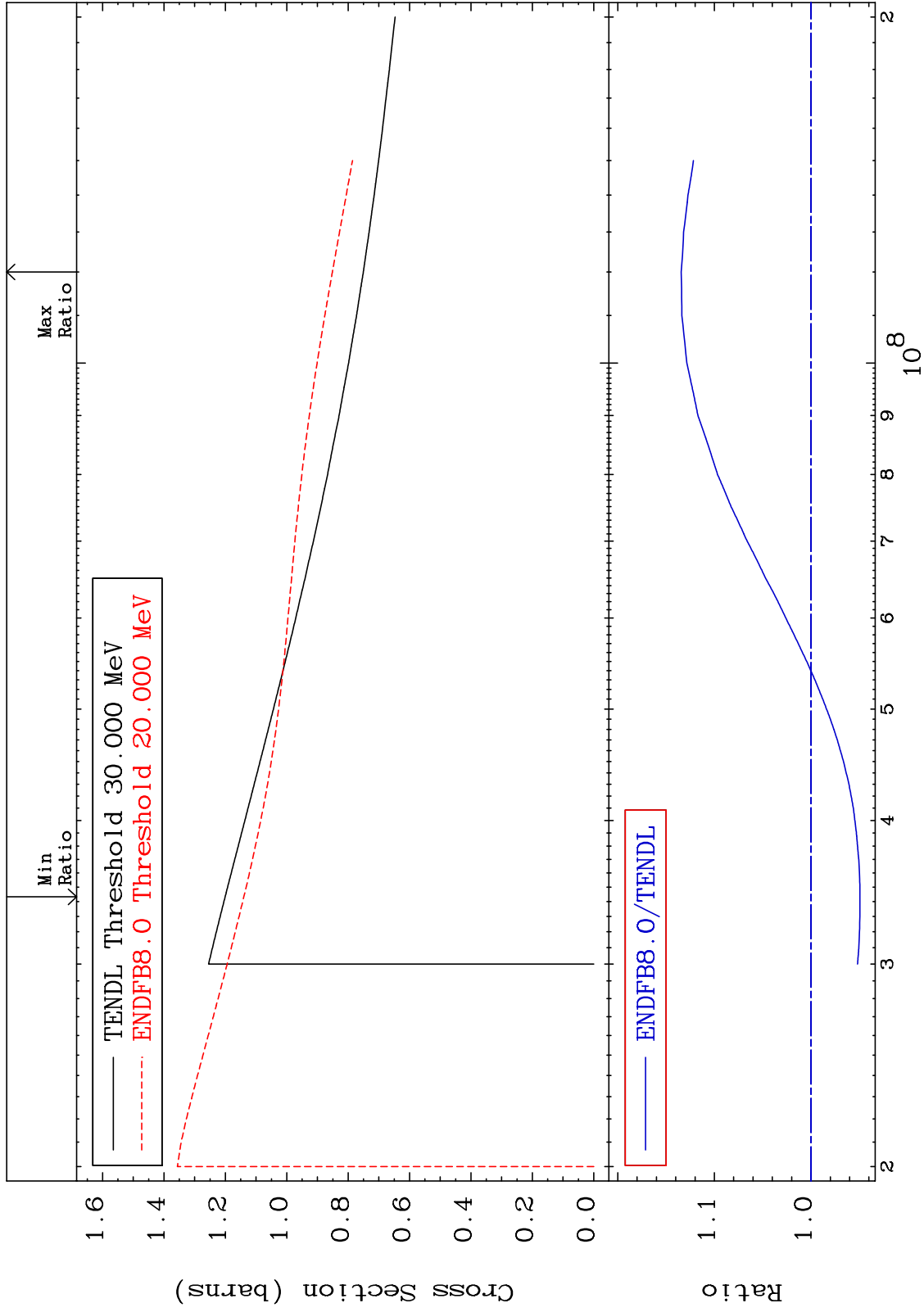
Incident Energy (eV)

28-Ni-61

MAT 2834

(n, remainder)
Cross Section

28-Ni-61
-5.066 To 13.43 %



28-Ni-61

Incident Energy (eV)

4

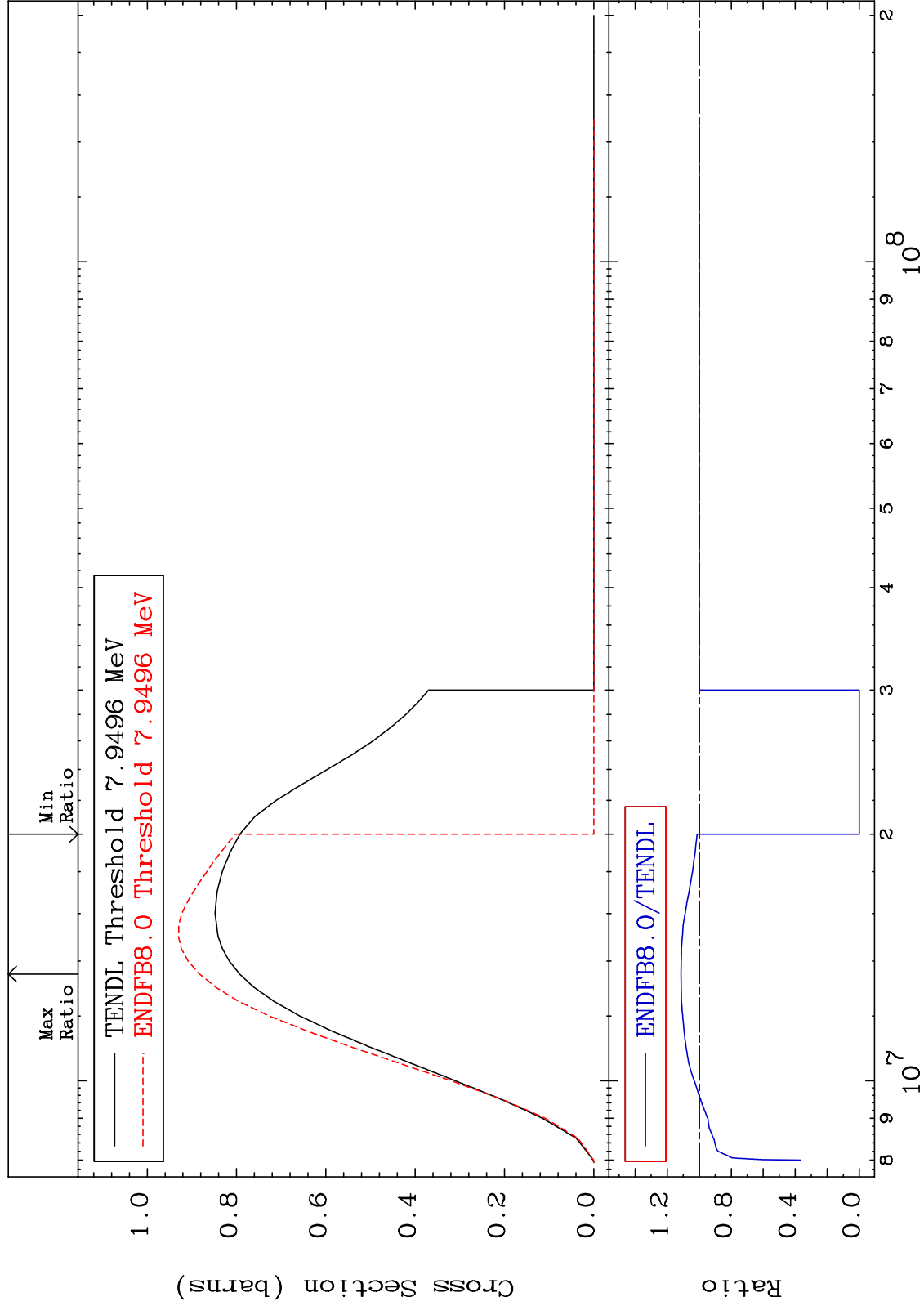
MAT 2834

(n,2n)

28-Ni-61

Cross Section

-100.0 To 11.34 %



28-Ni-61

Incident Energy (eV)

5

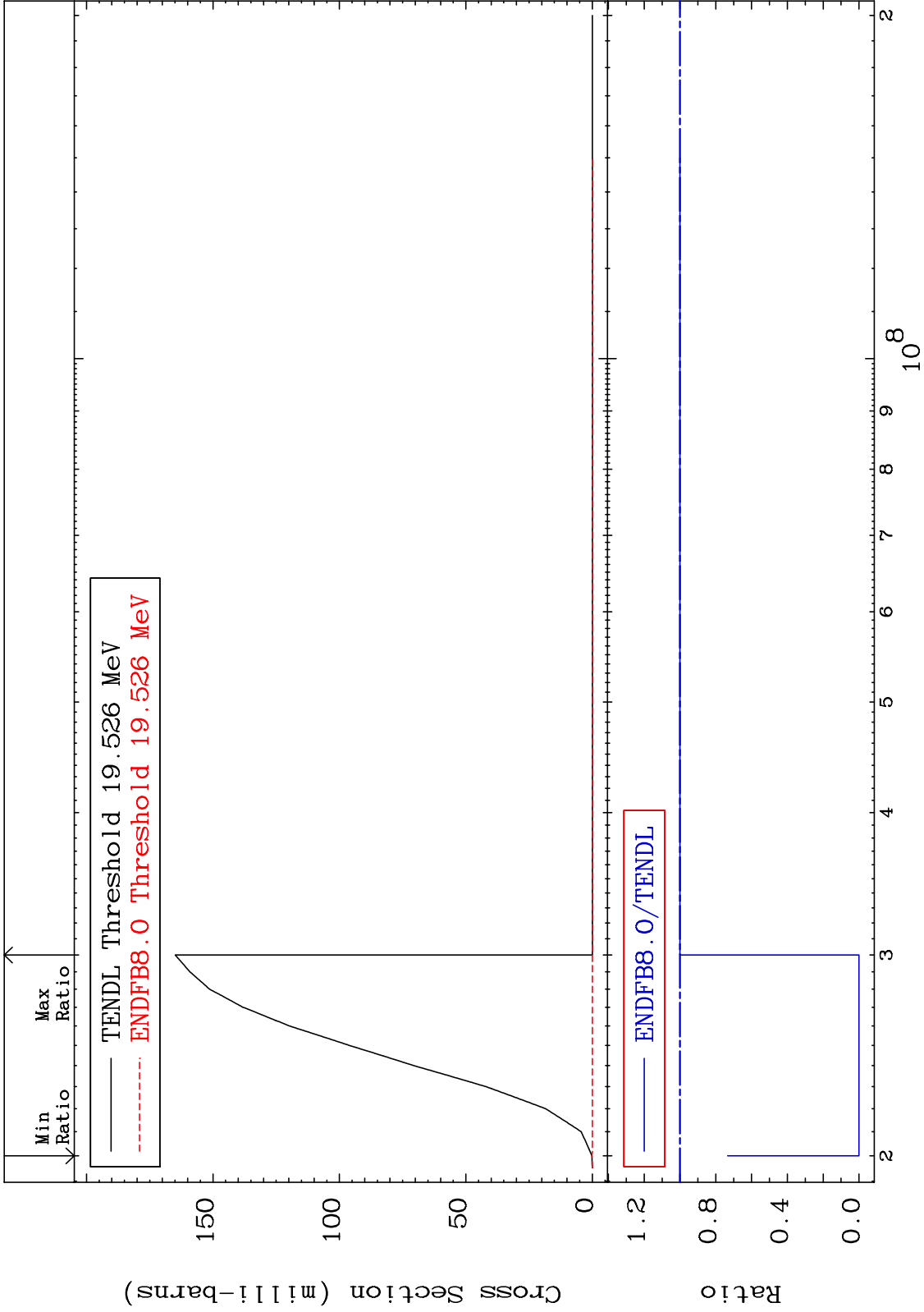
MAT 2834

(n, 3n)

28-Ni-61

Cross Section

-100.0 To 0.000 %



6

Incident Energy (eV)

28-Ni-61

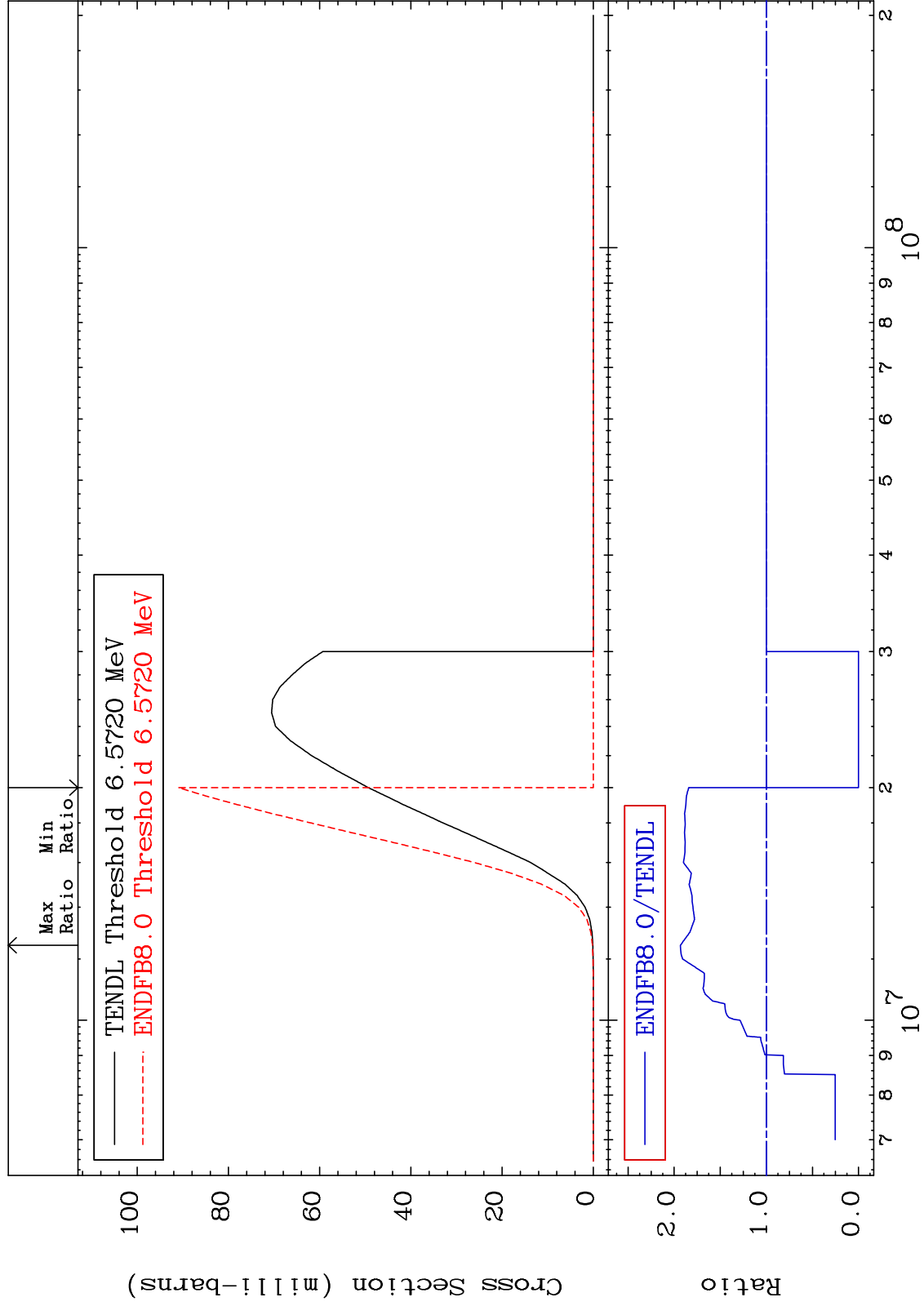
MAT 2834

(n,n') α

28-Ni-61

Cross Section

-100.0 To 93.19 %



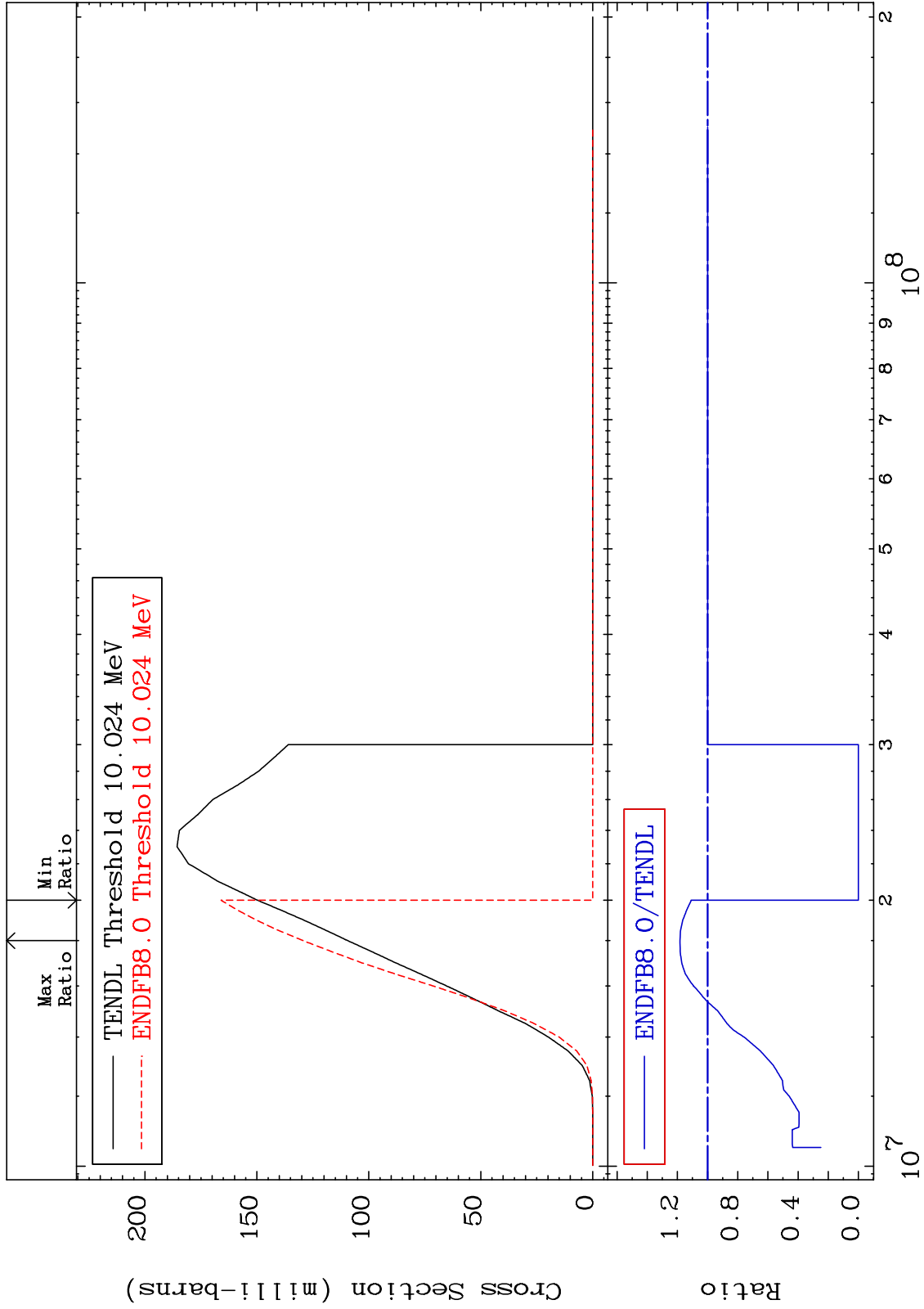
MAT 2834

(n,n') p

28-Ni-61

Cross Section

-100.0 To 18.26 %



28-Ni-61

28-Ni-61

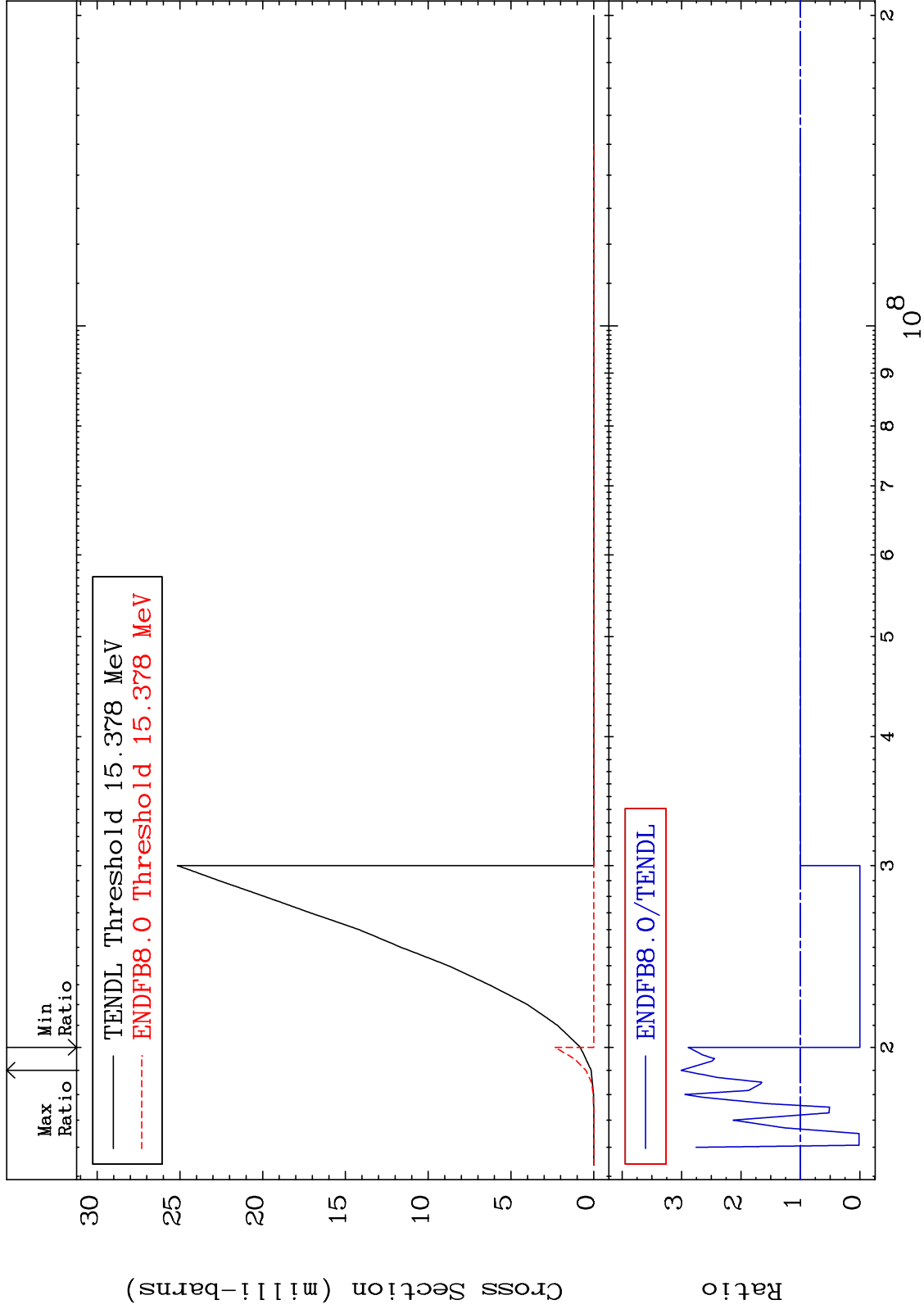
MAT 2834

(n,n') d

28-Ni-61

Cross Section

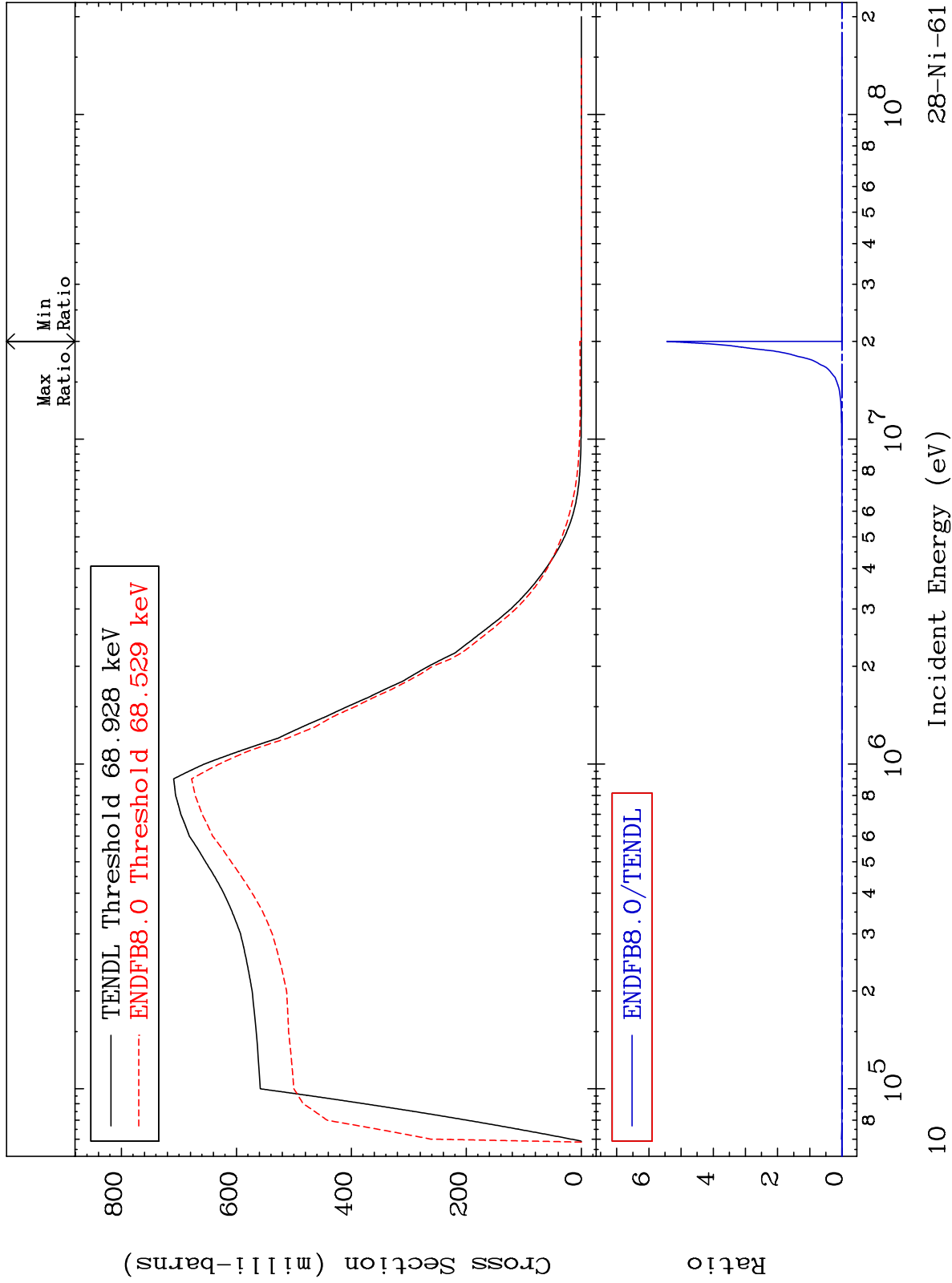
-100.0 To 200.5 %



MAT 2834

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

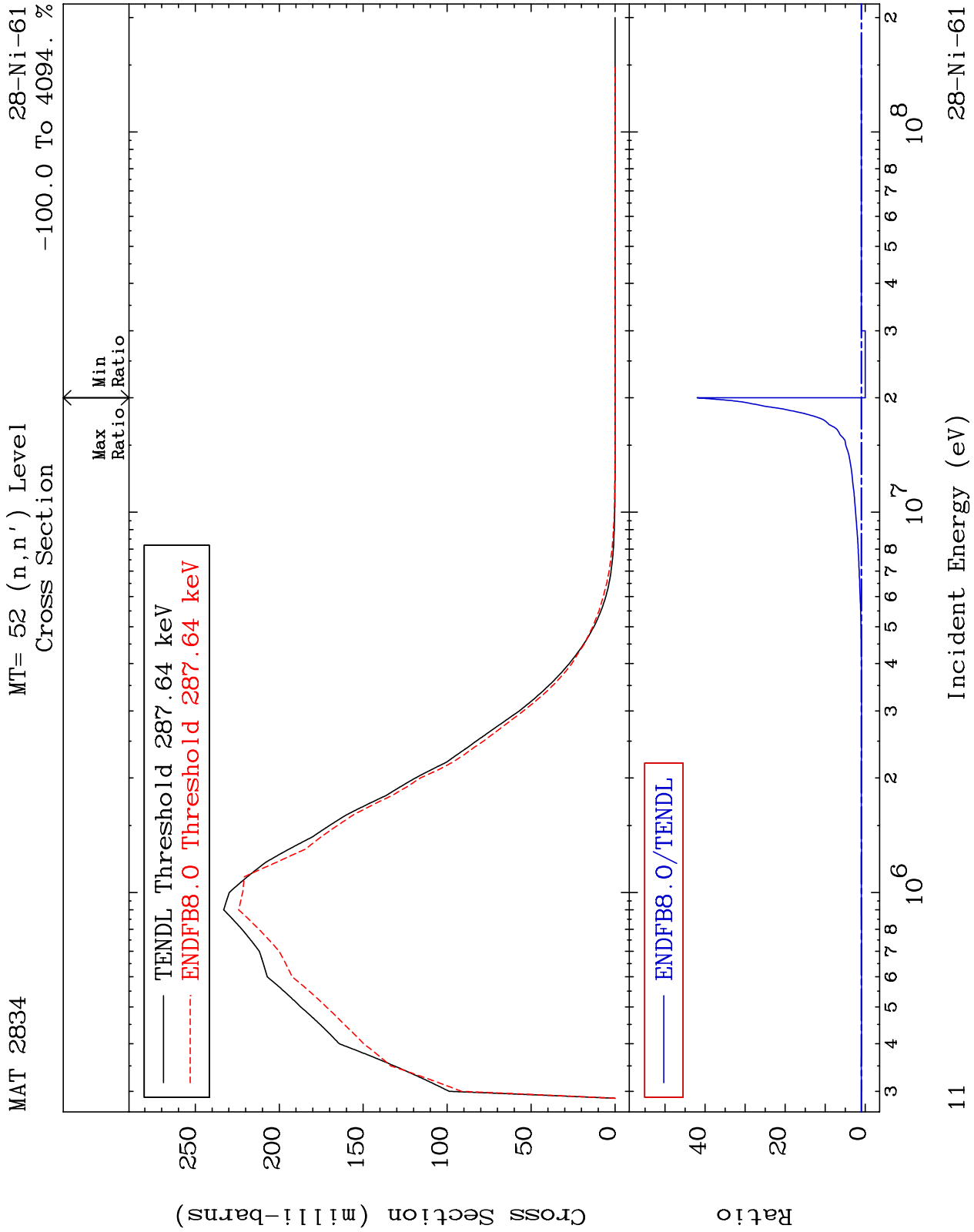
28-Ni-61
-100.0 To 9999. %



28-Ni-61

Incident Energy (eV)

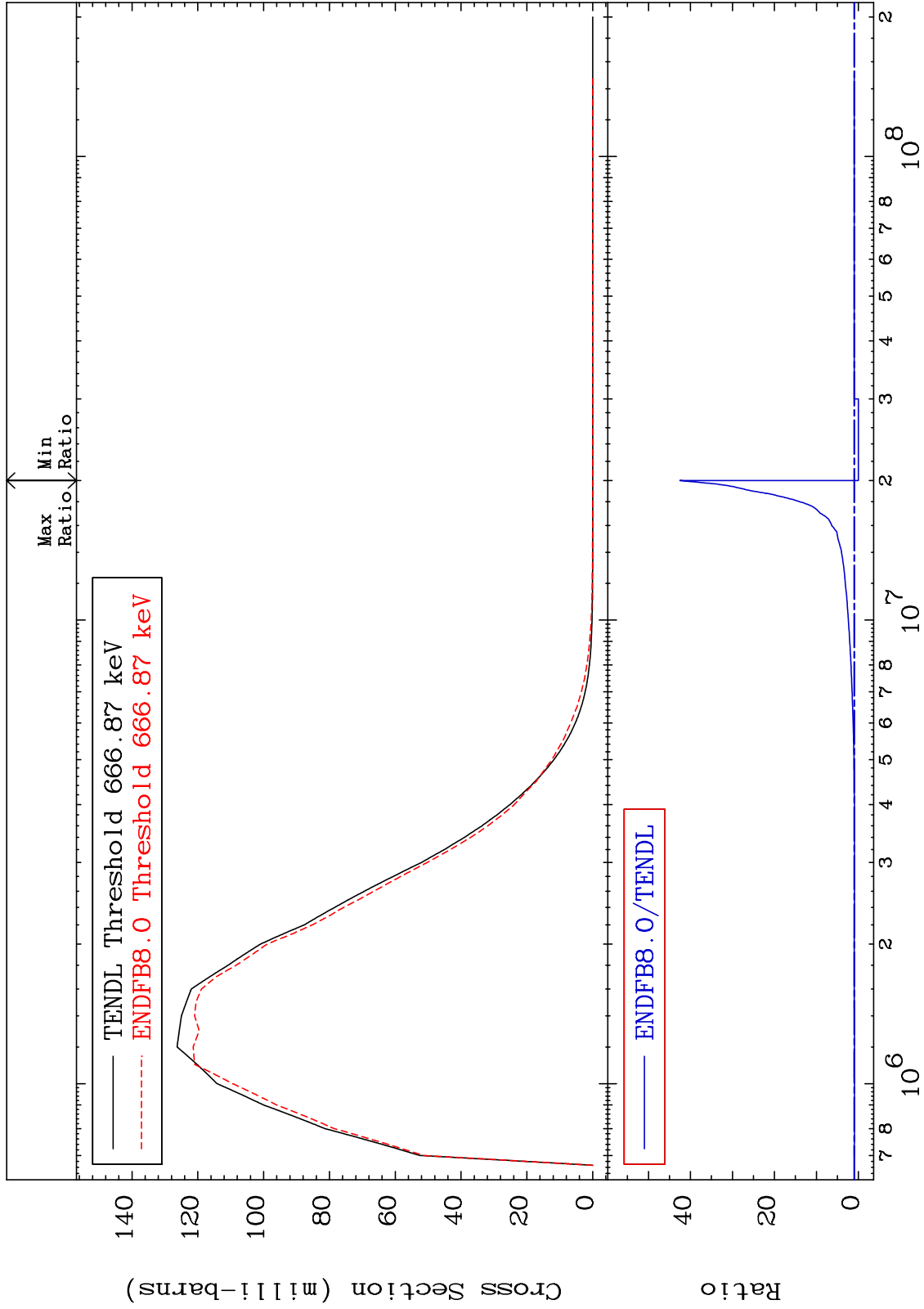
10



MAT 2834

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

28-Ni-61
-100.0 To 4148. %



12

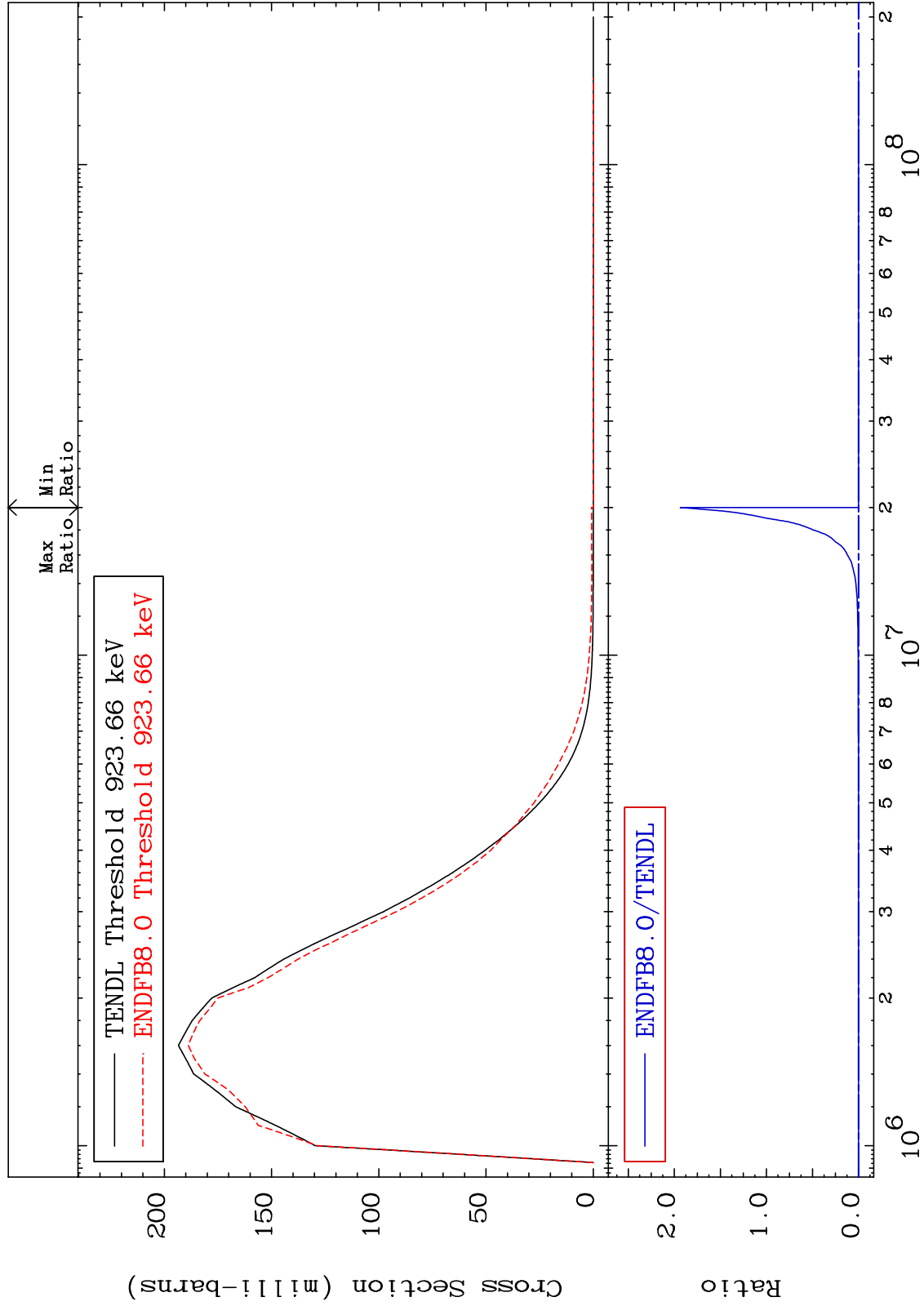
Incident Energy (eV)

28-Ni-61

MAT 2834

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

28-Ni-61
-100.0 To 9999. %

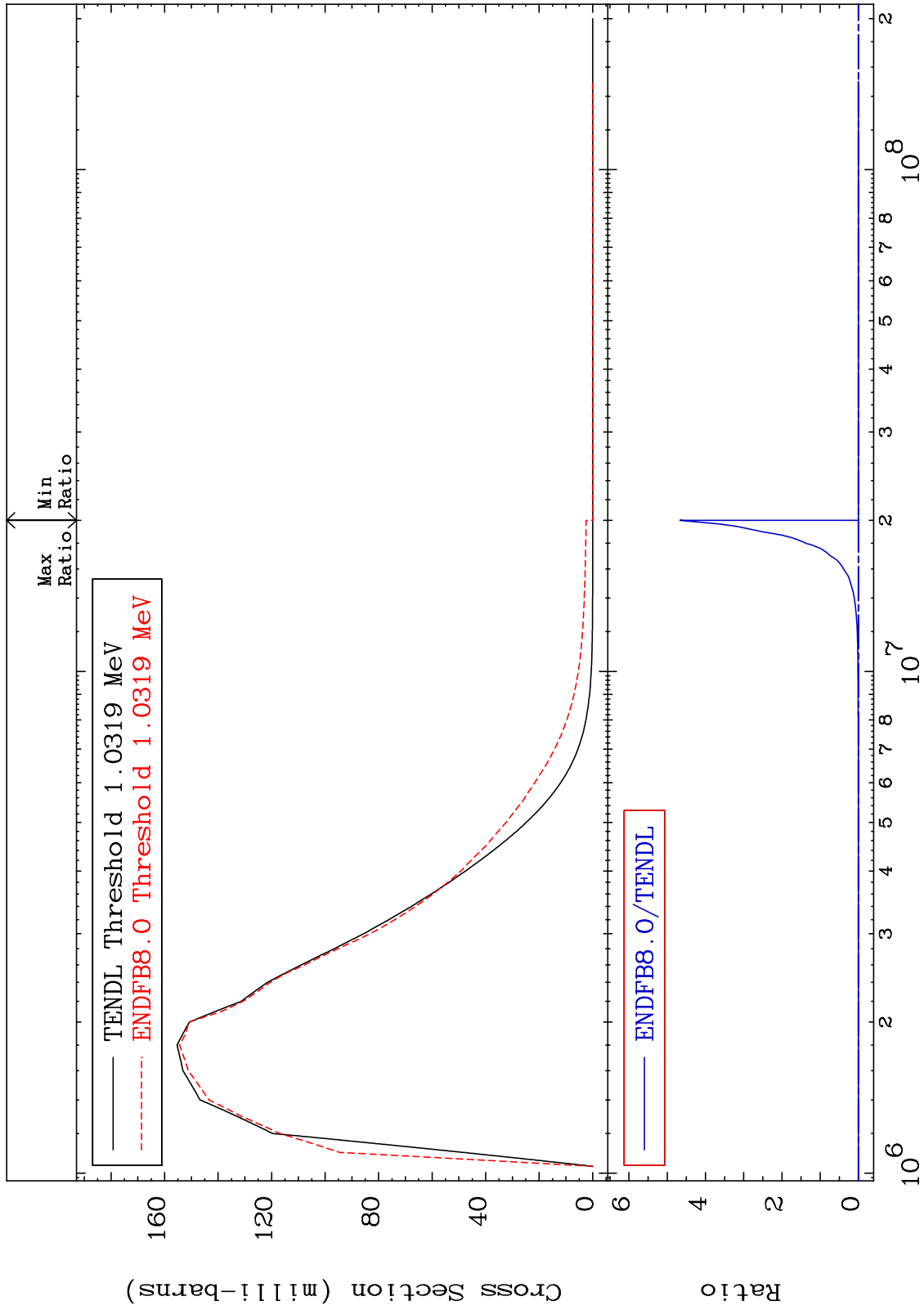


Incident Energy (eV)

28-Ni-61

13

MAT 2834 MT= 55 (n,n') Level Cross Section 28-Ni-61
 -100.0 To 9999. %

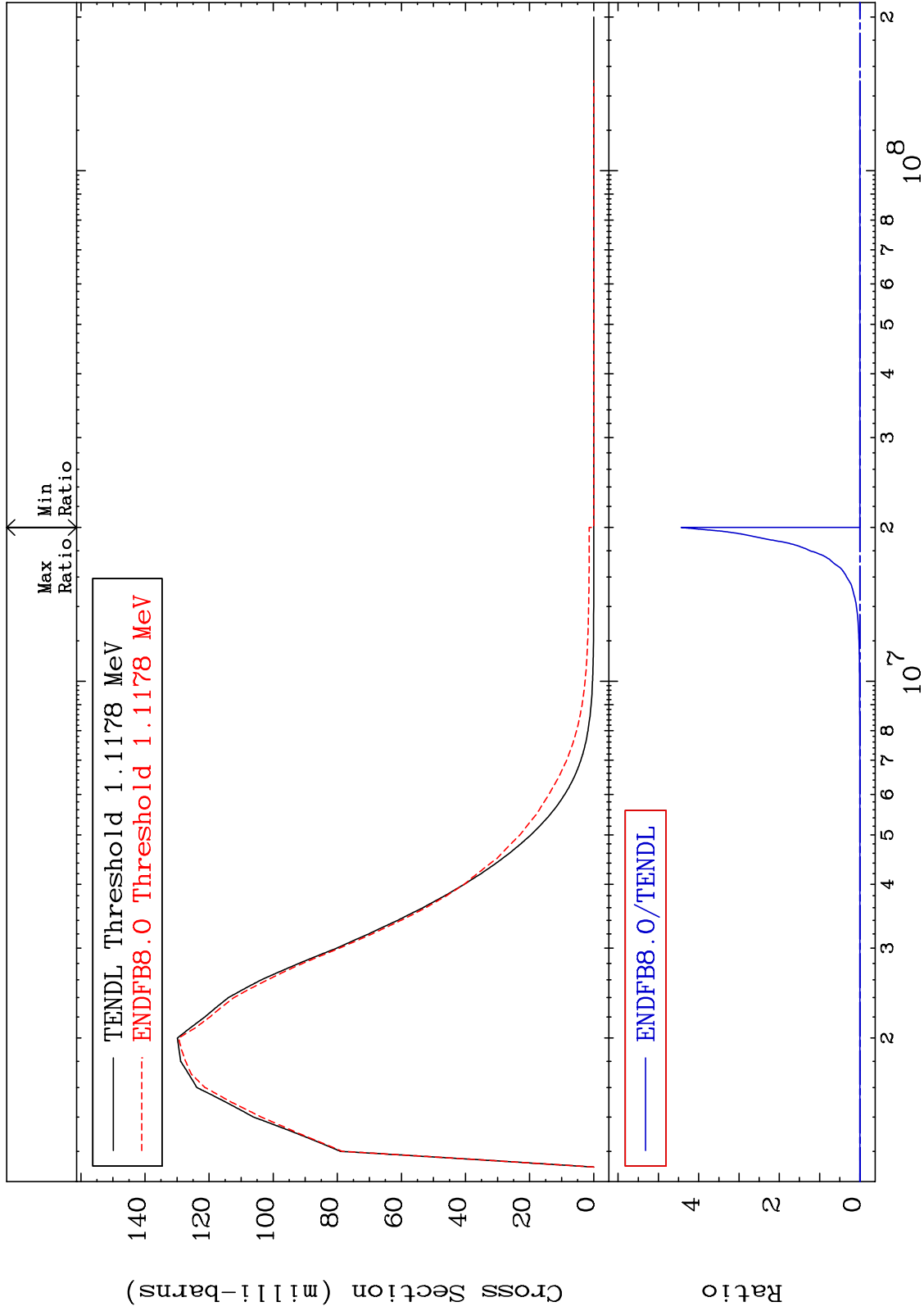


14 Incident Energy (eV) 28-Ni-61

MAT 2834

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

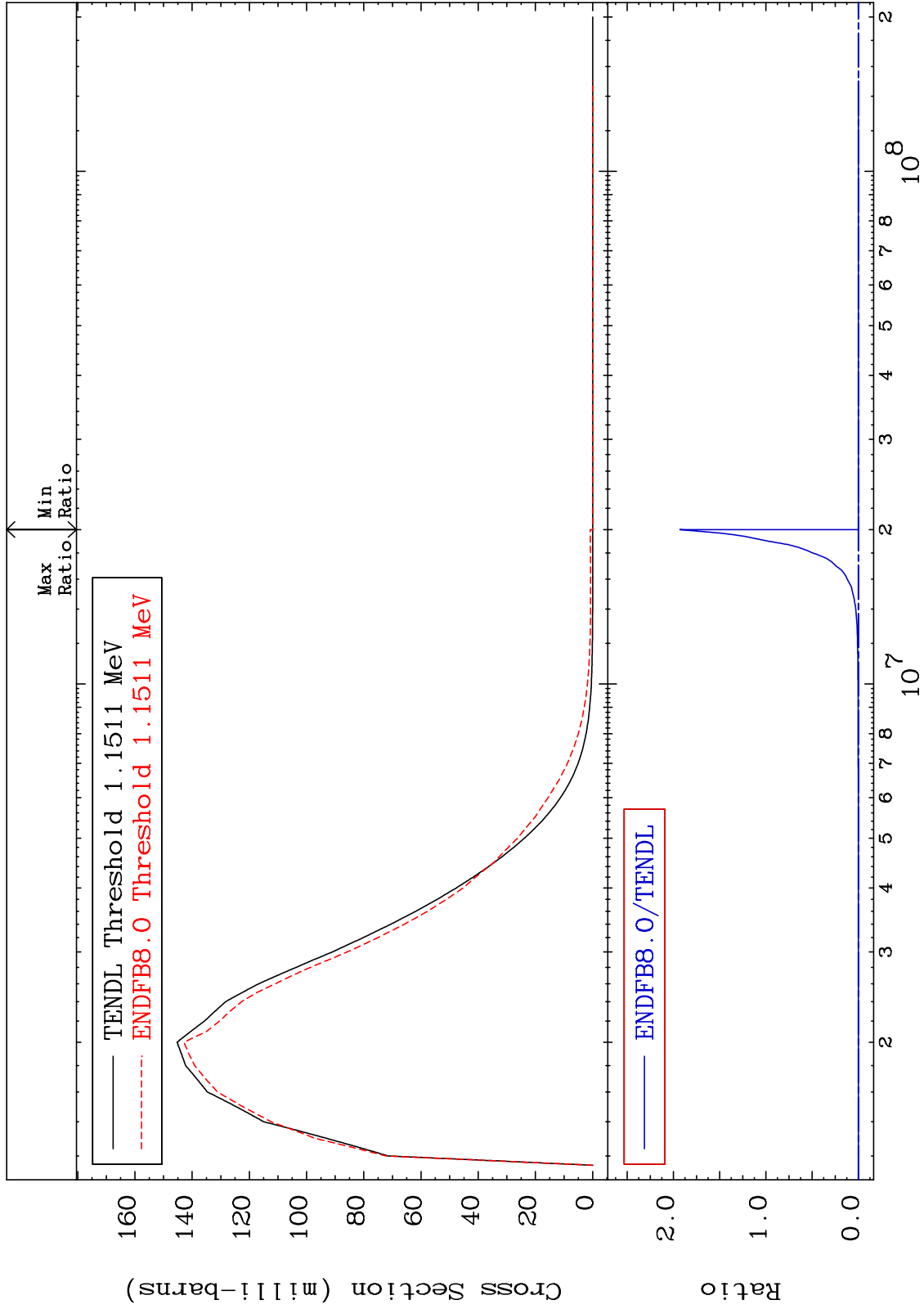
28-Ni-61
-100.0 To 9999. %



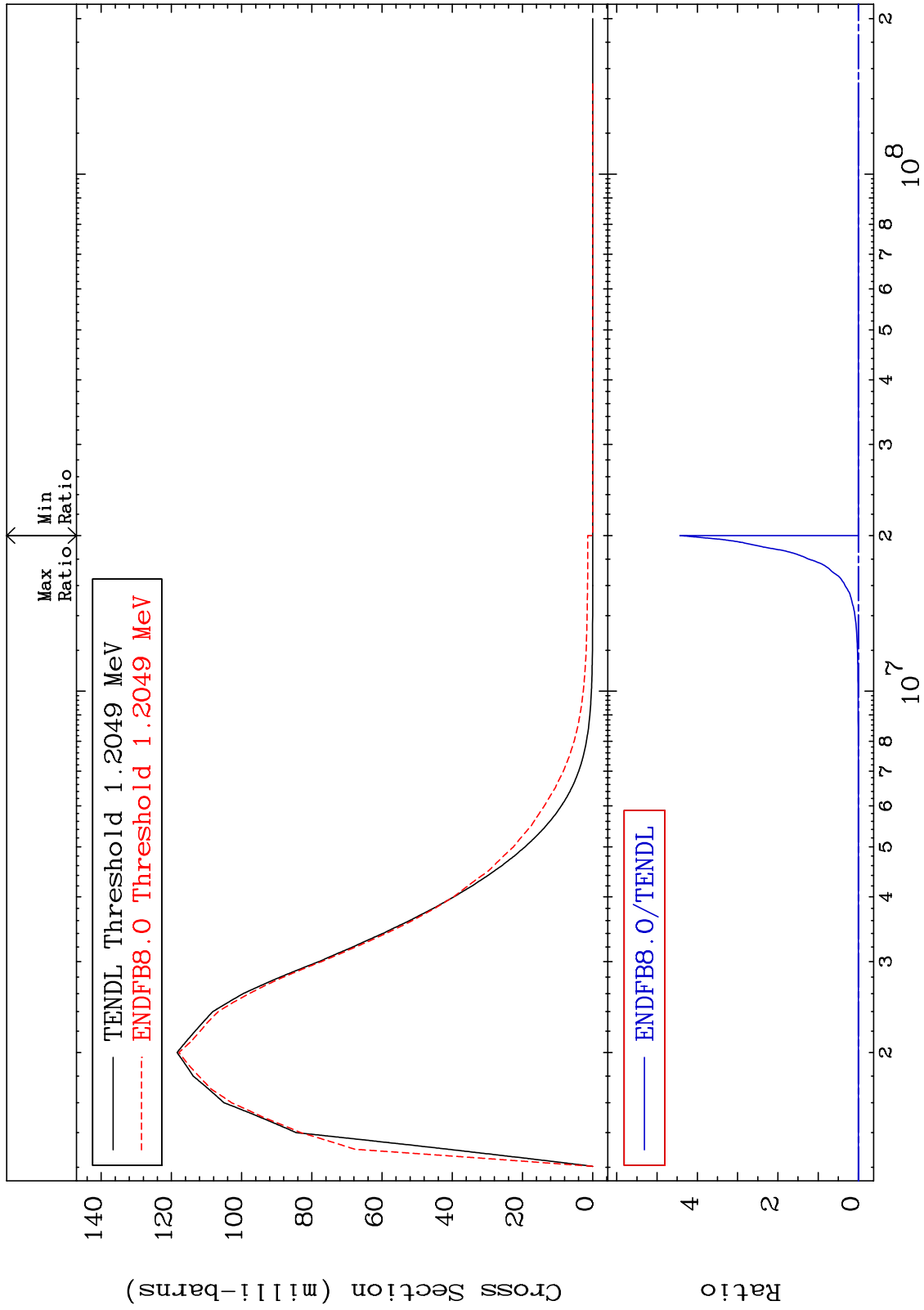
MAT 2834

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

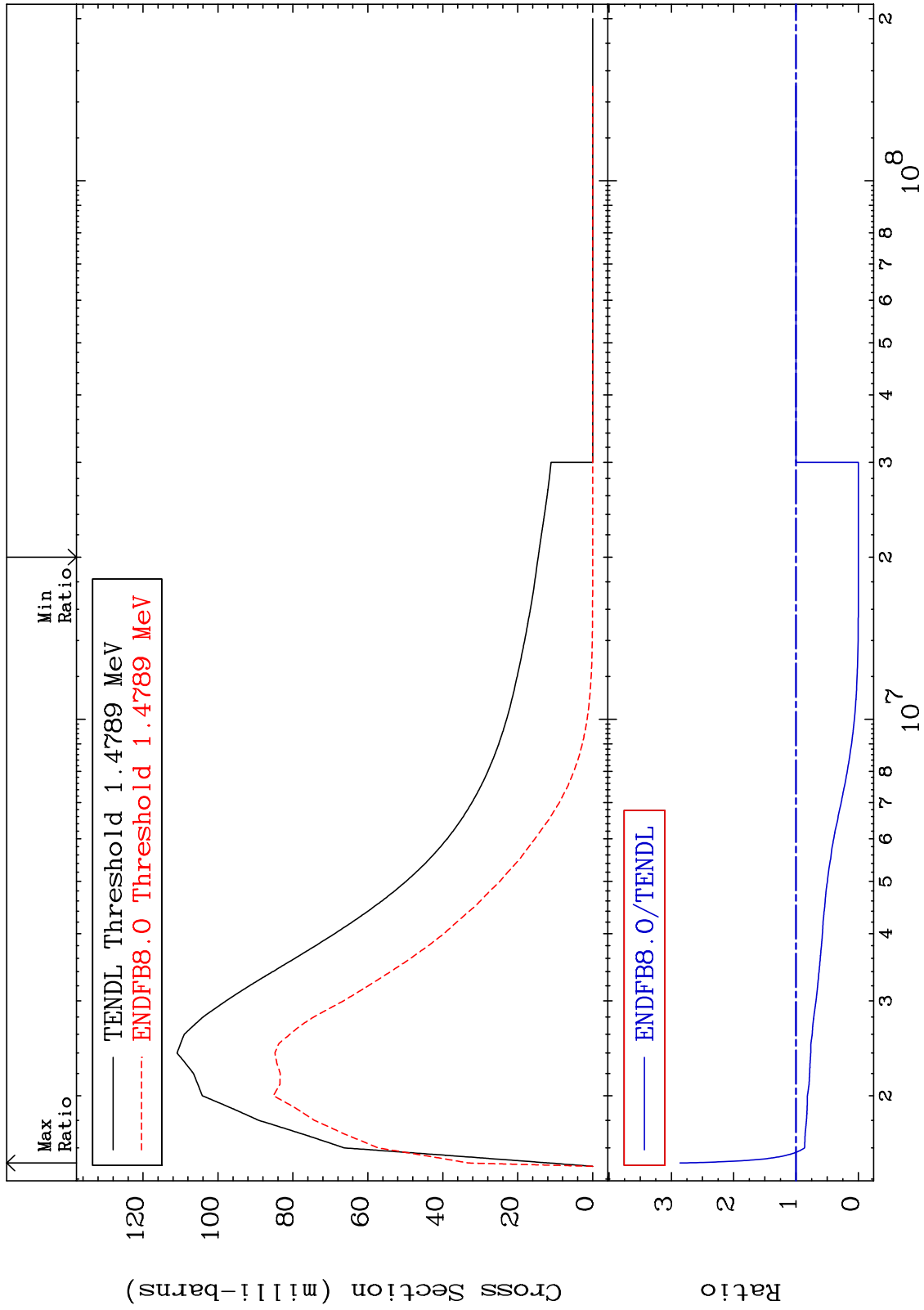
28-Ni-61
-100.0 To 9999. %

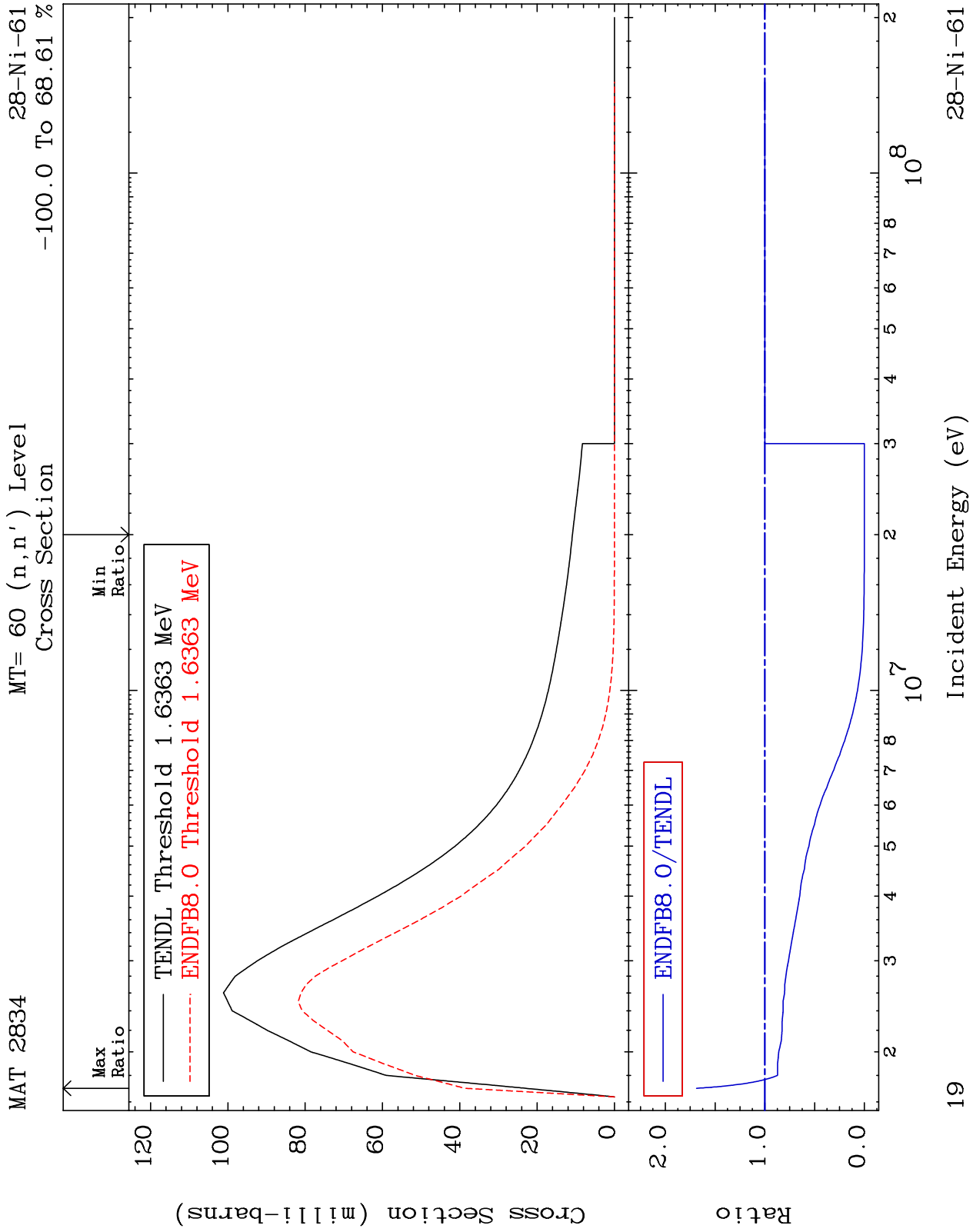


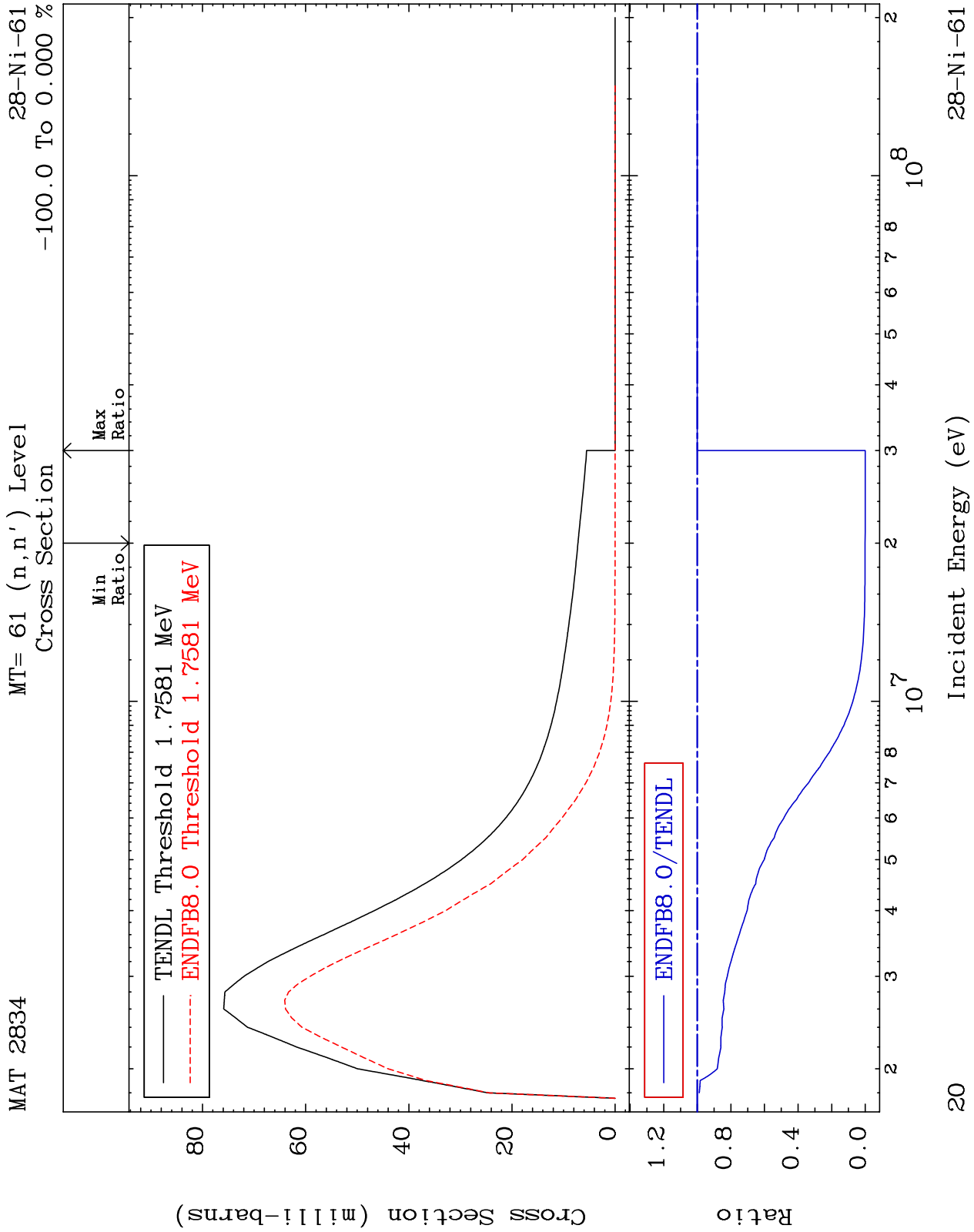
MAT 2834 MT= 58 (n,n') Level 28-Ni-61
 Cross Section -100.0 To 9999. %



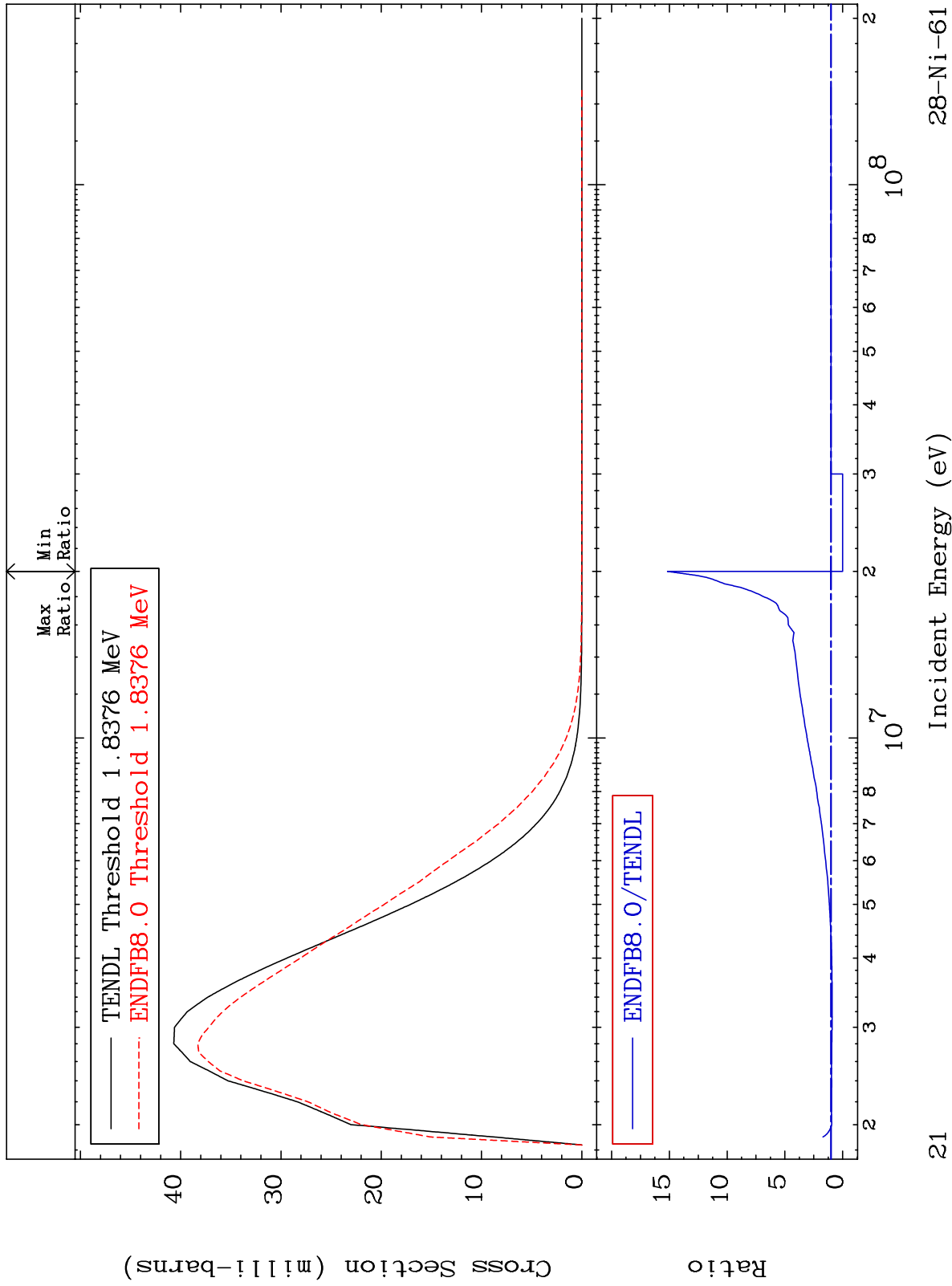
MAT 2834 MT= 59 (n, n') Level Cross Section -100.0 To 186.1 % 28-Ni-61



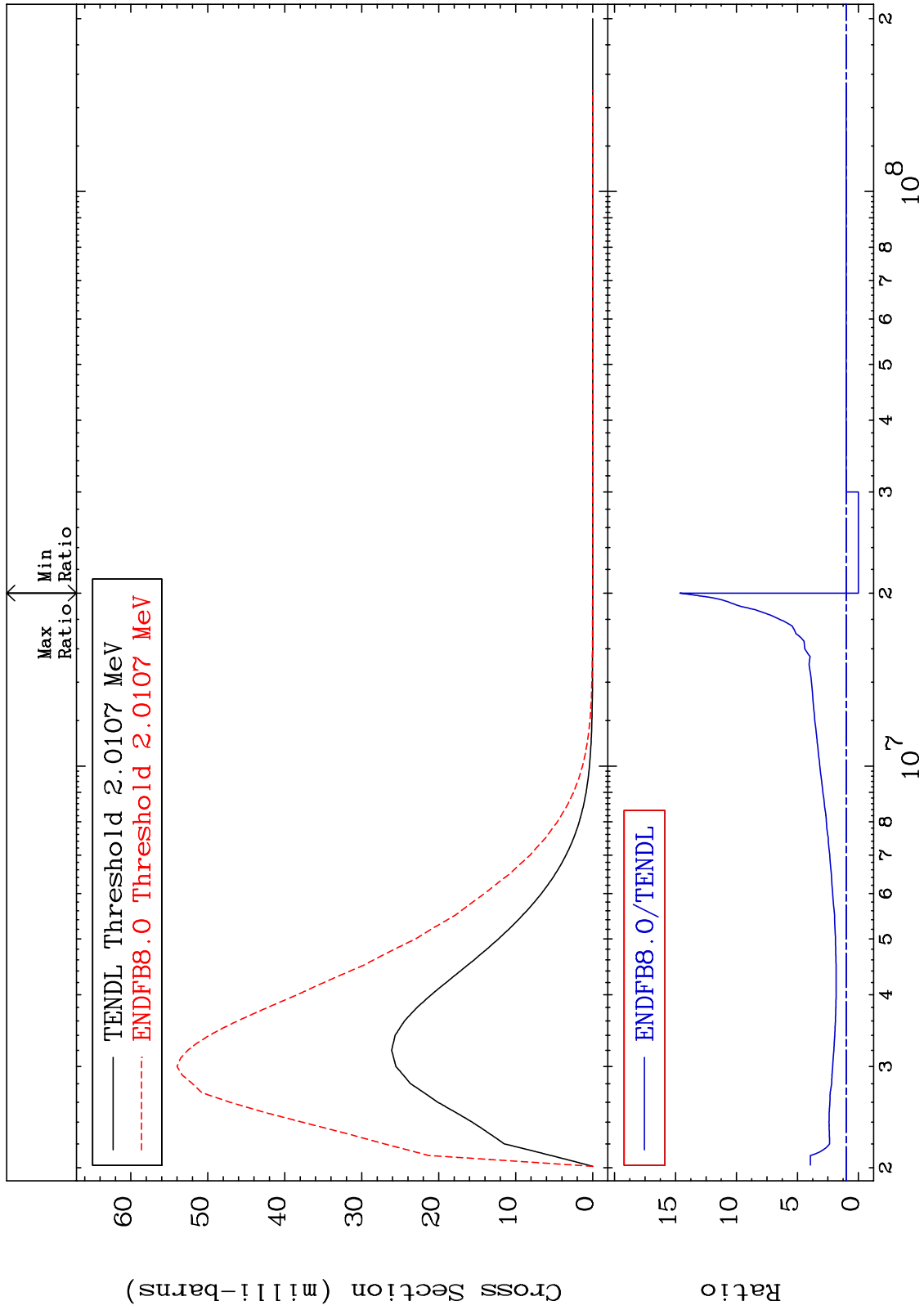




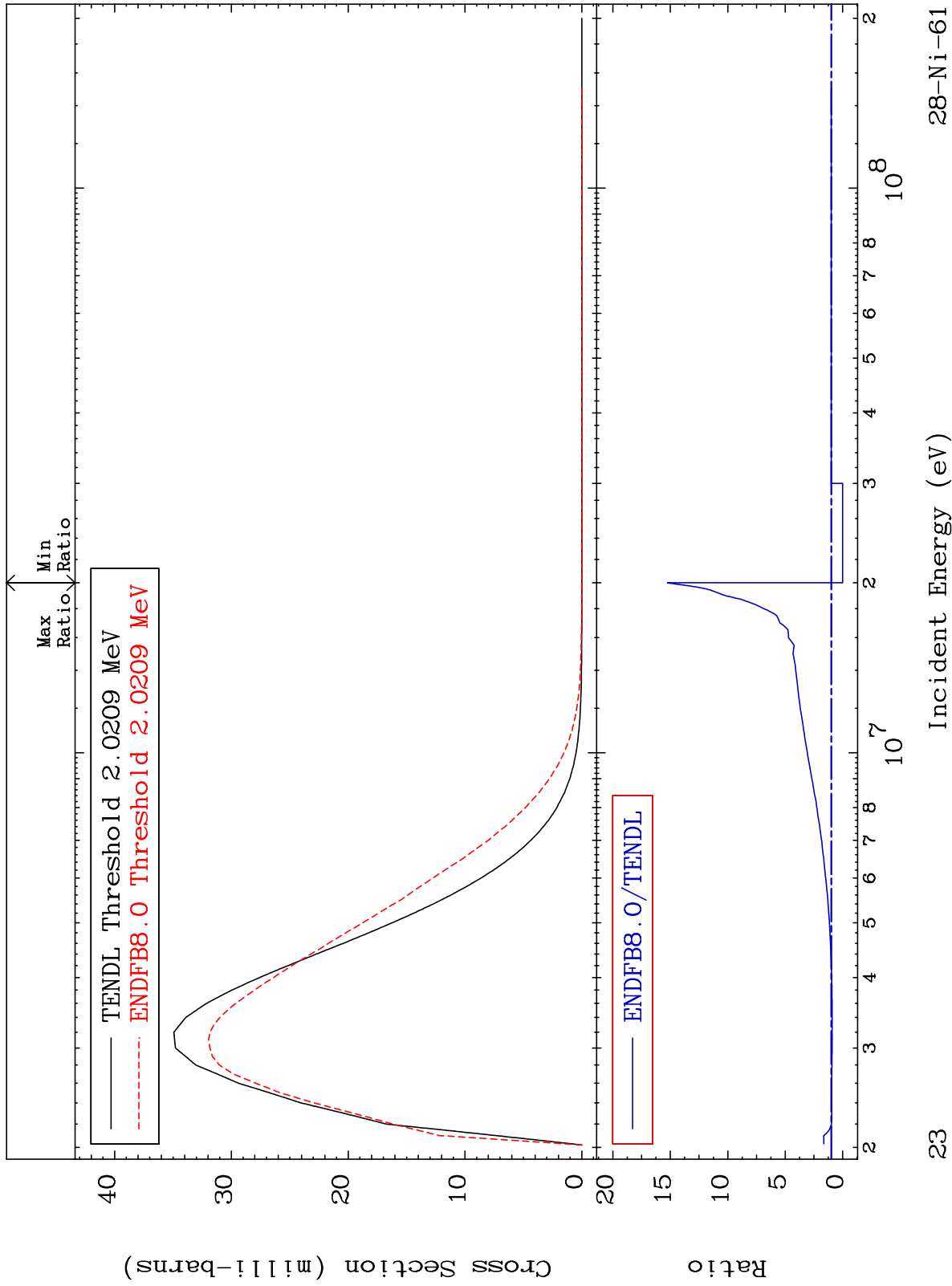
MAT 2834 MT= 62 (n,n') Level Cross Section -100.0 To 1416. % 28-Ni-61

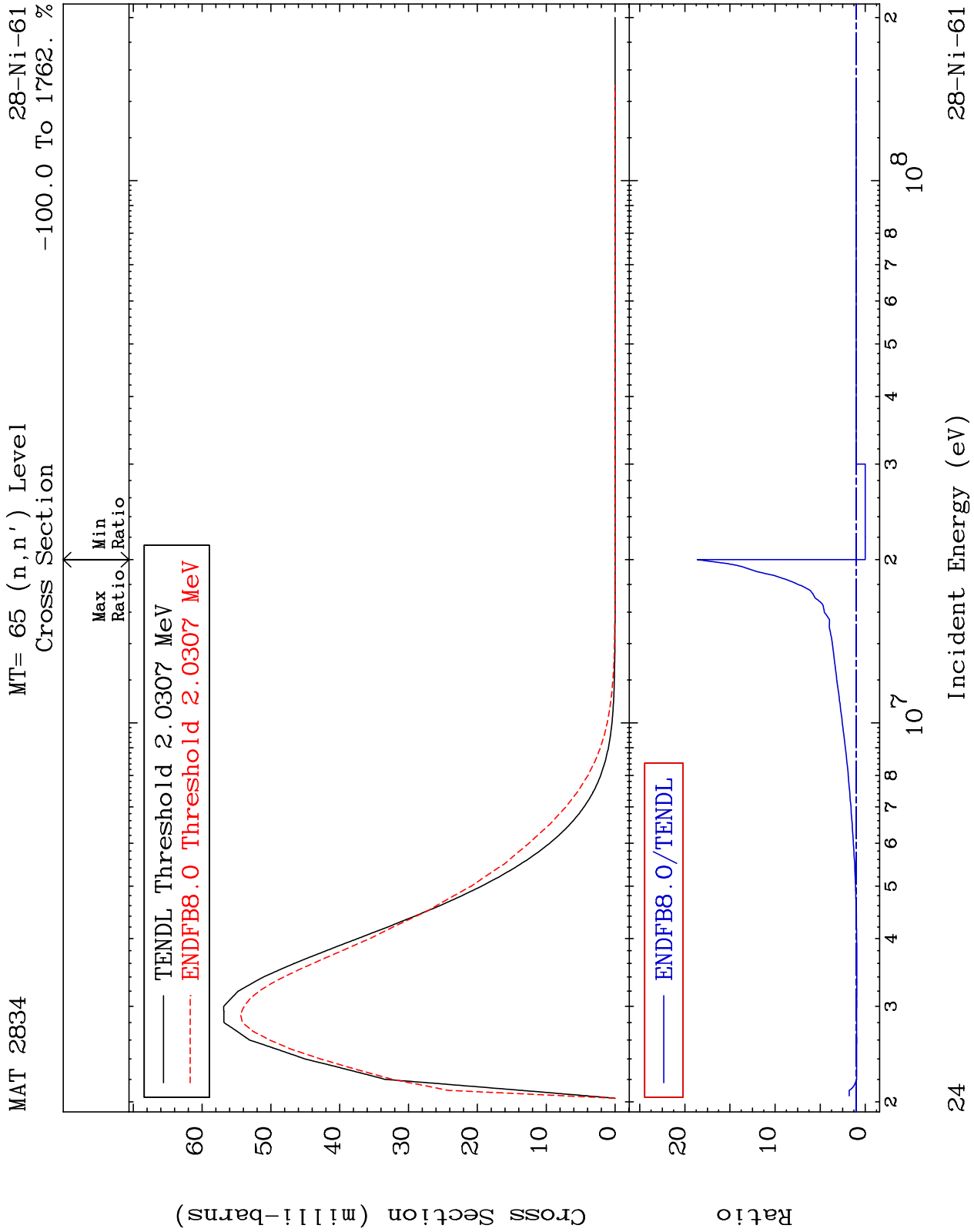


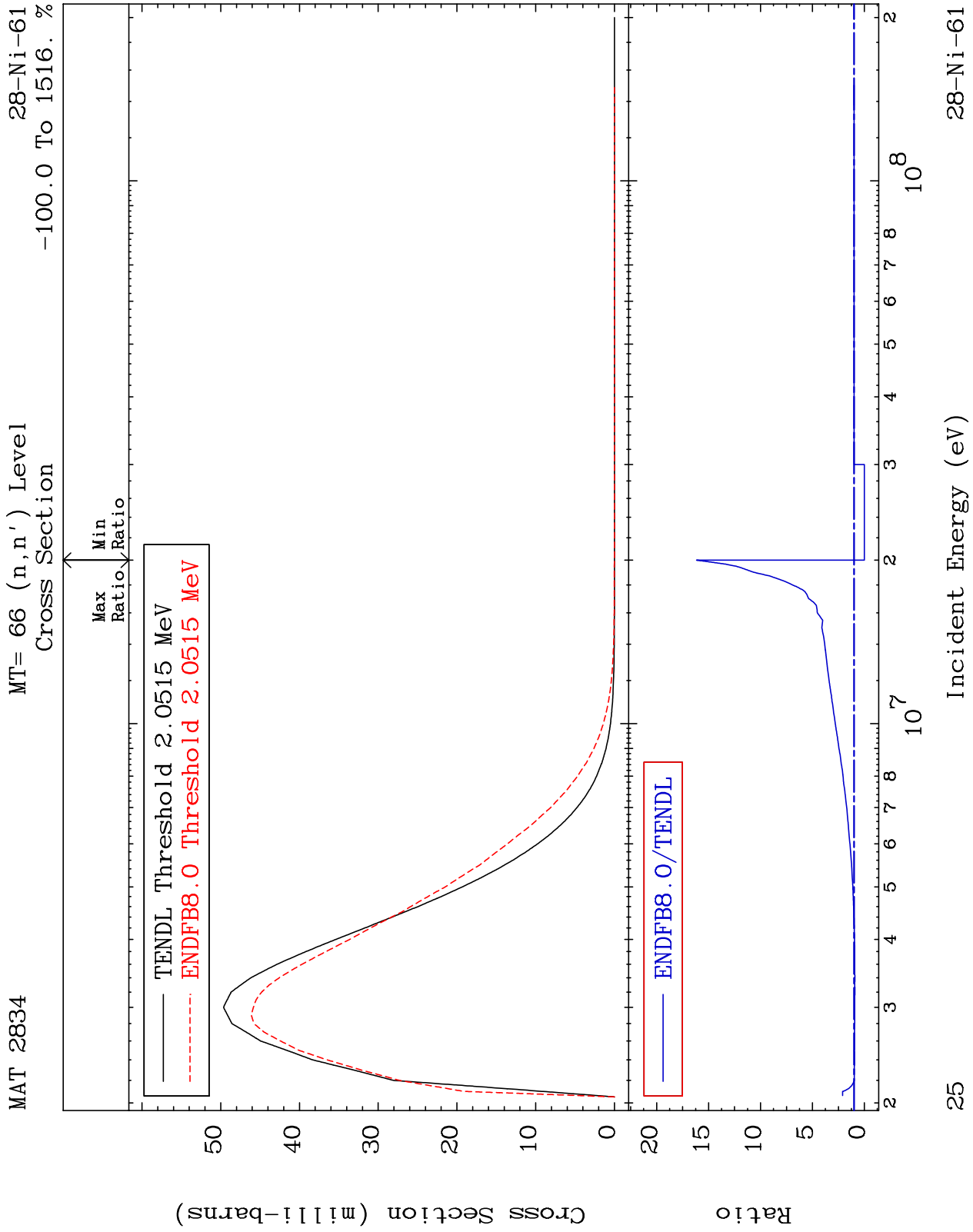
MAT 2834 MT= 63 (n,n') Level Cross Section -100.0 To 1363. % 28-Ni-61

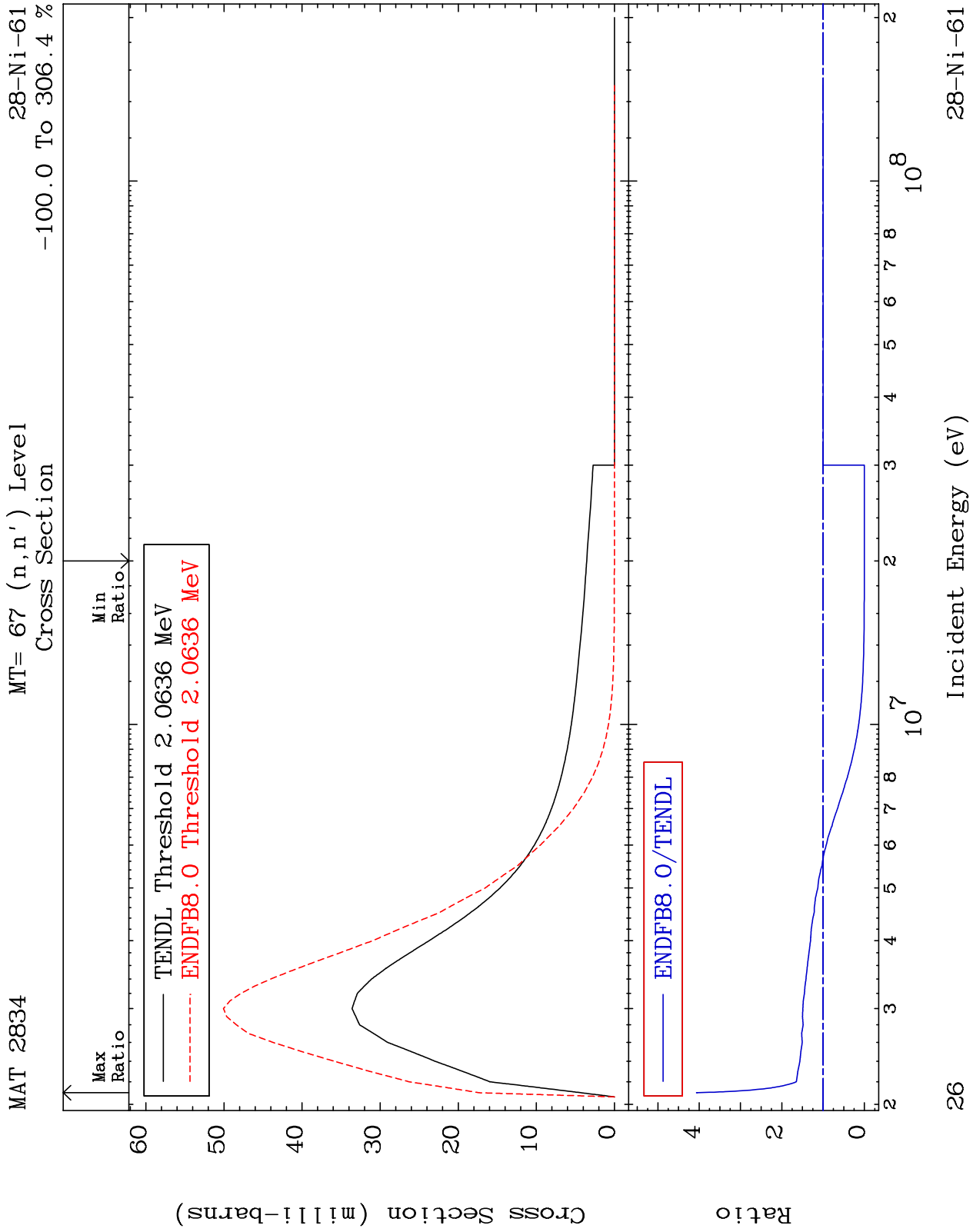


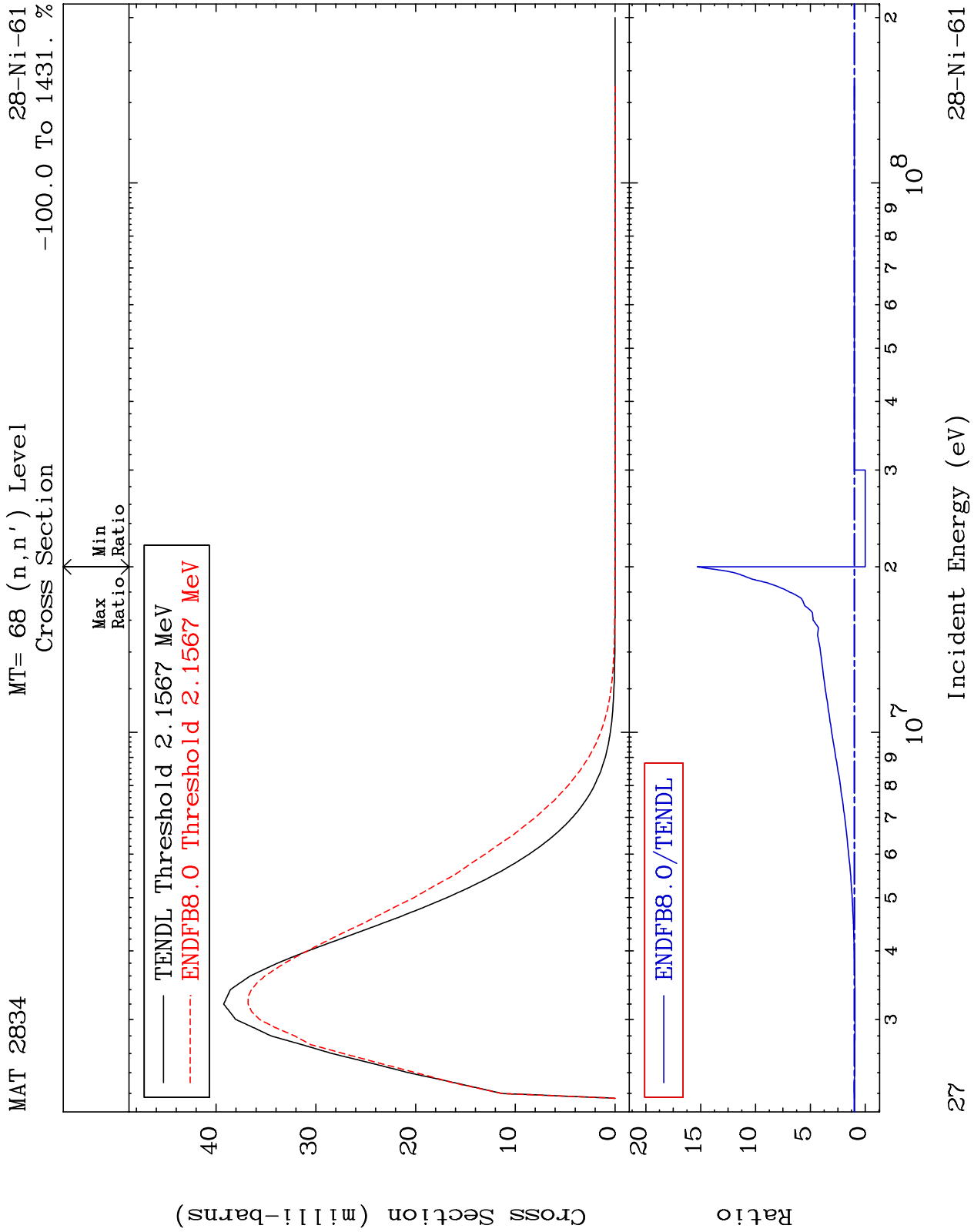
MAT 2834 MT= 64 (n,n') Level Cross Section -100.0 To 1424. % 28-Ni-61







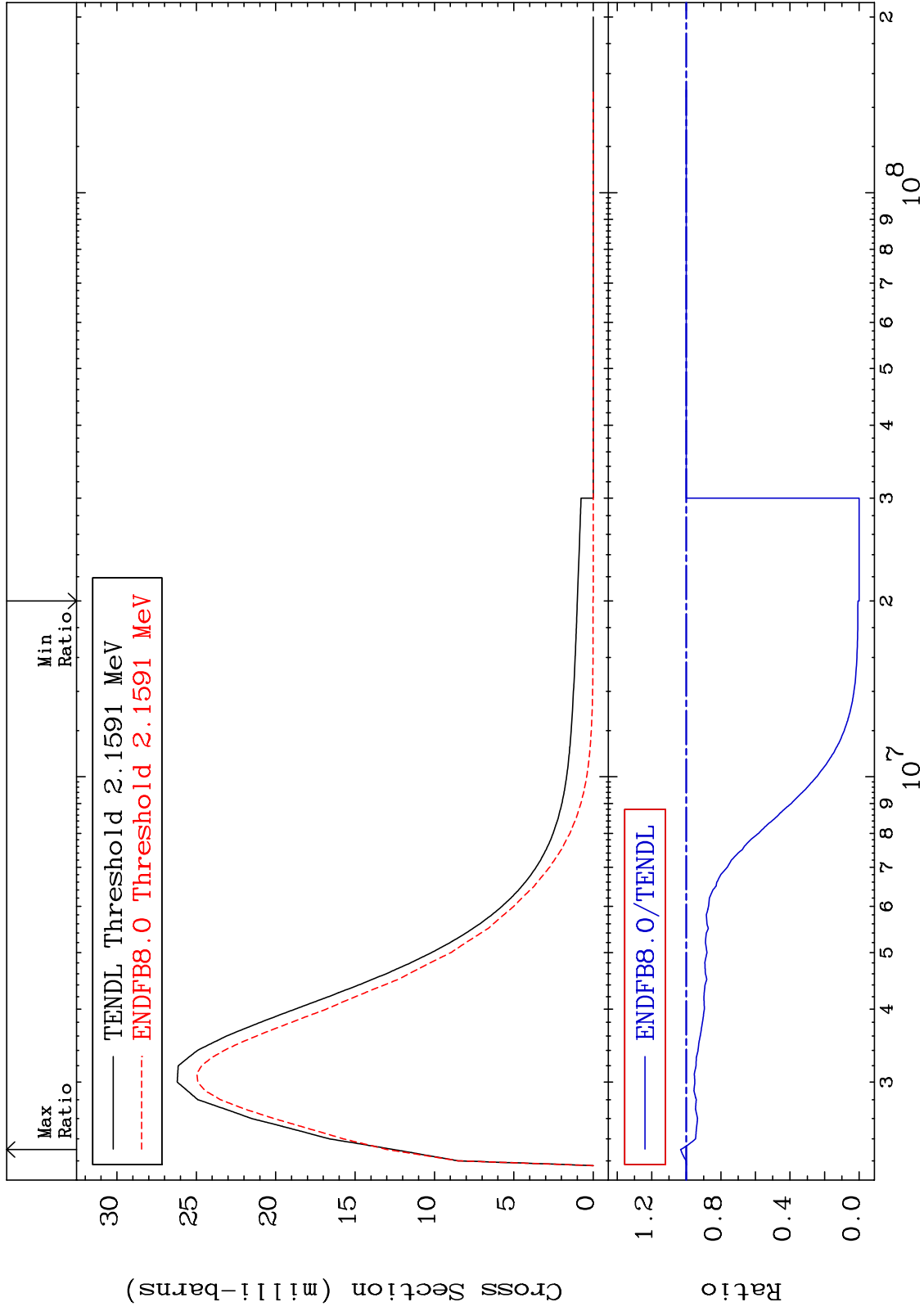




MAT 2834

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

28-Ni-61
-100.0 To 3.294 %



28

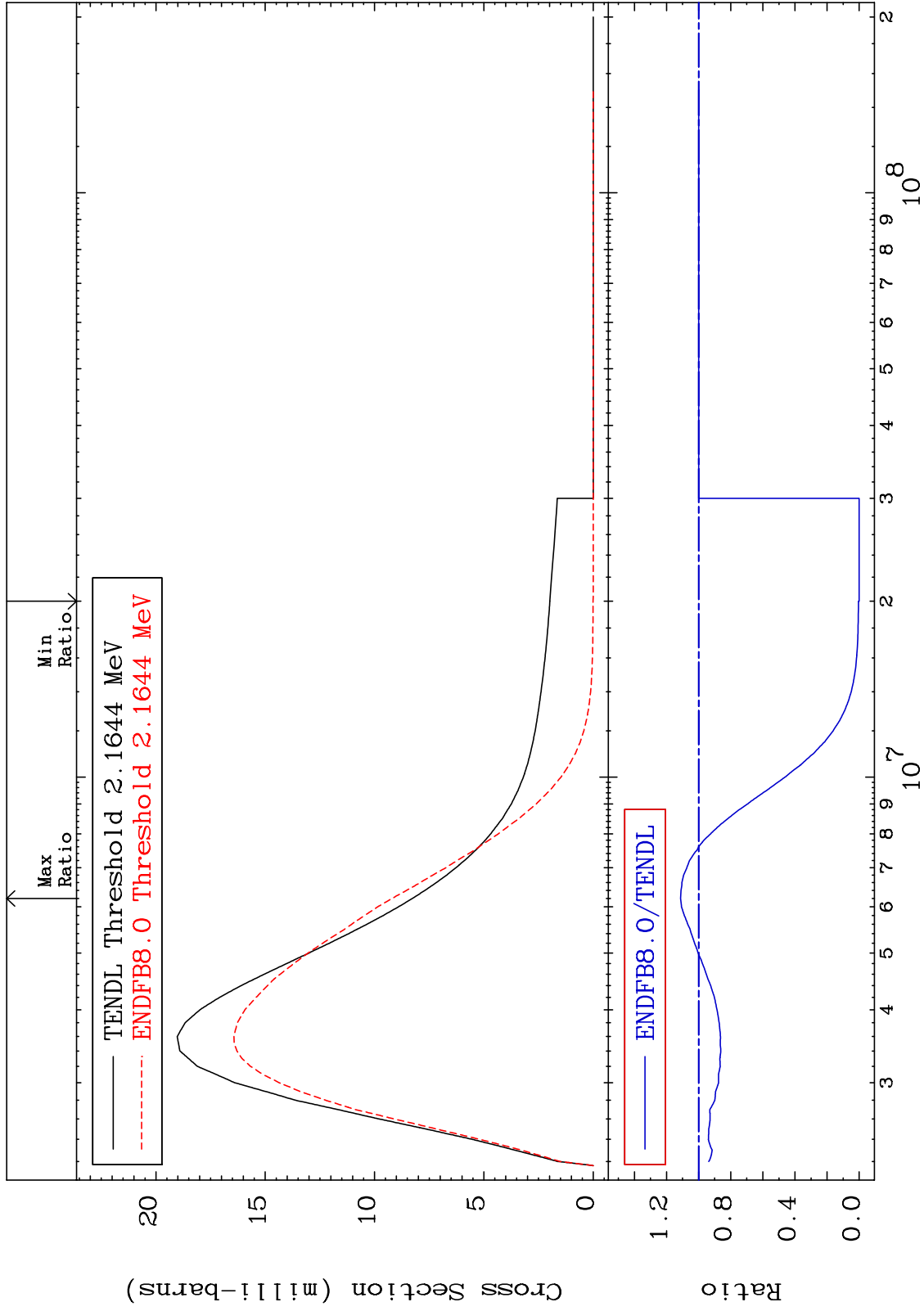
Incident Energy (eV)

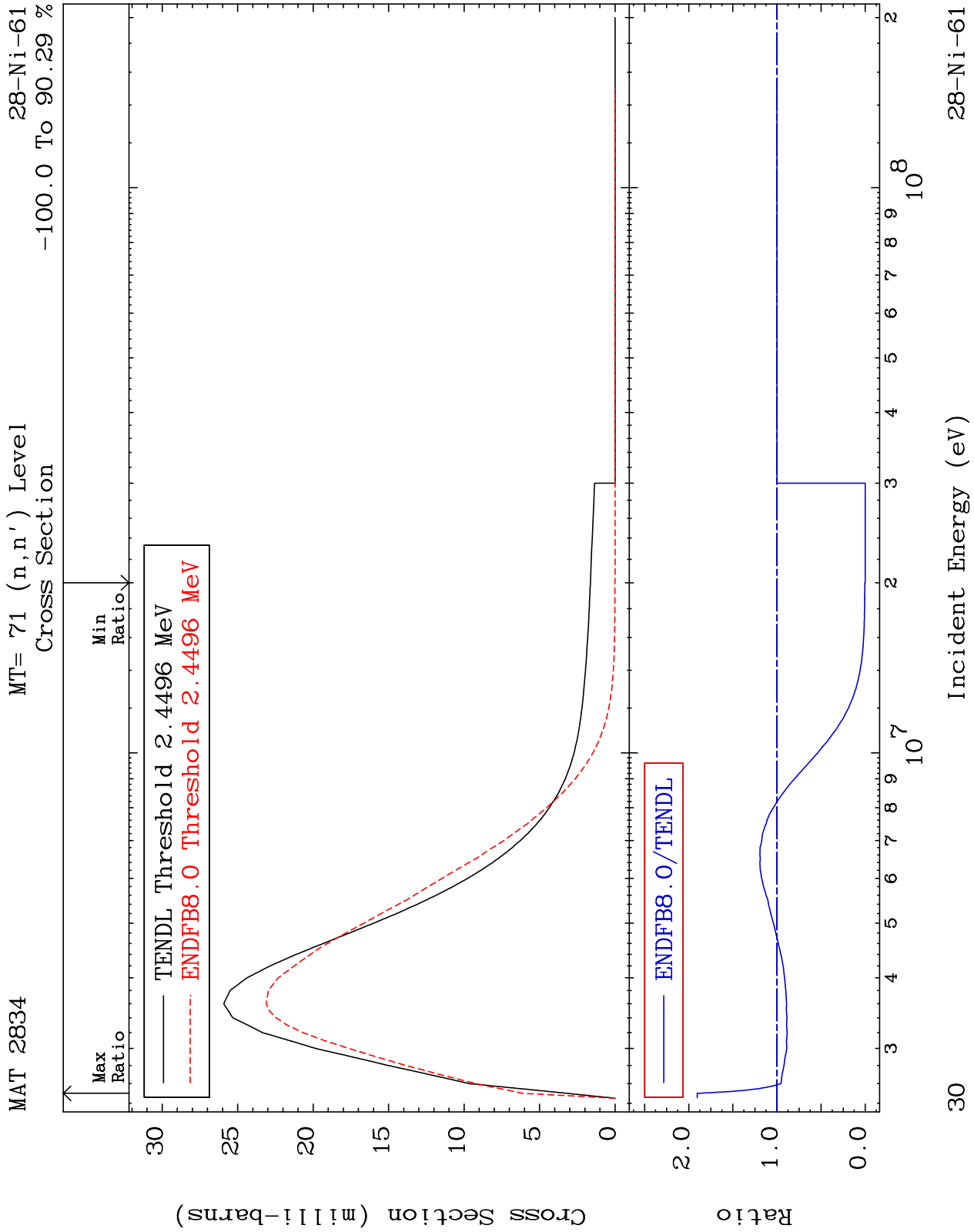
28-Ni-61

MAT 2834

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

28-Ni-61
-100.0 To 11.22 %

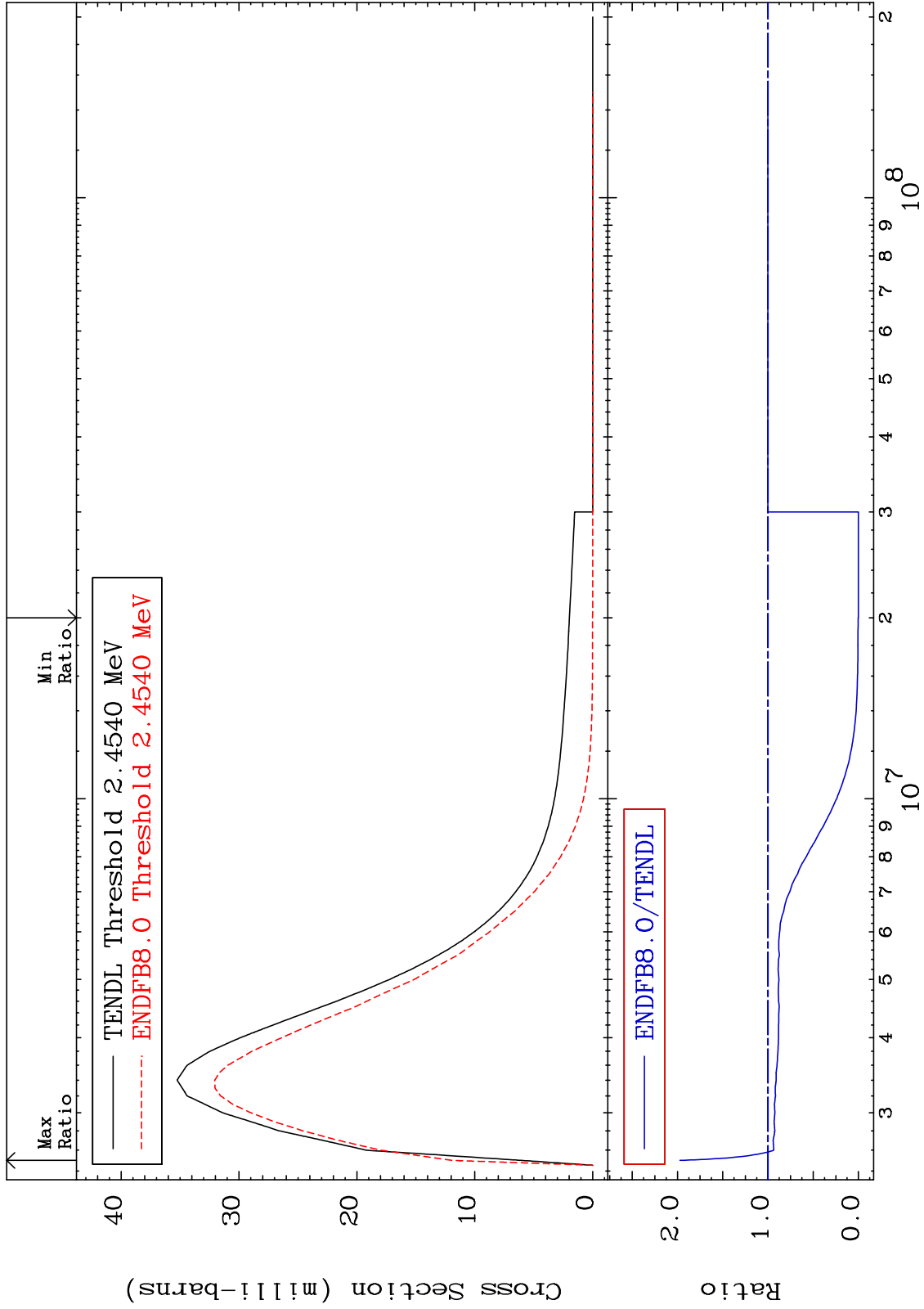


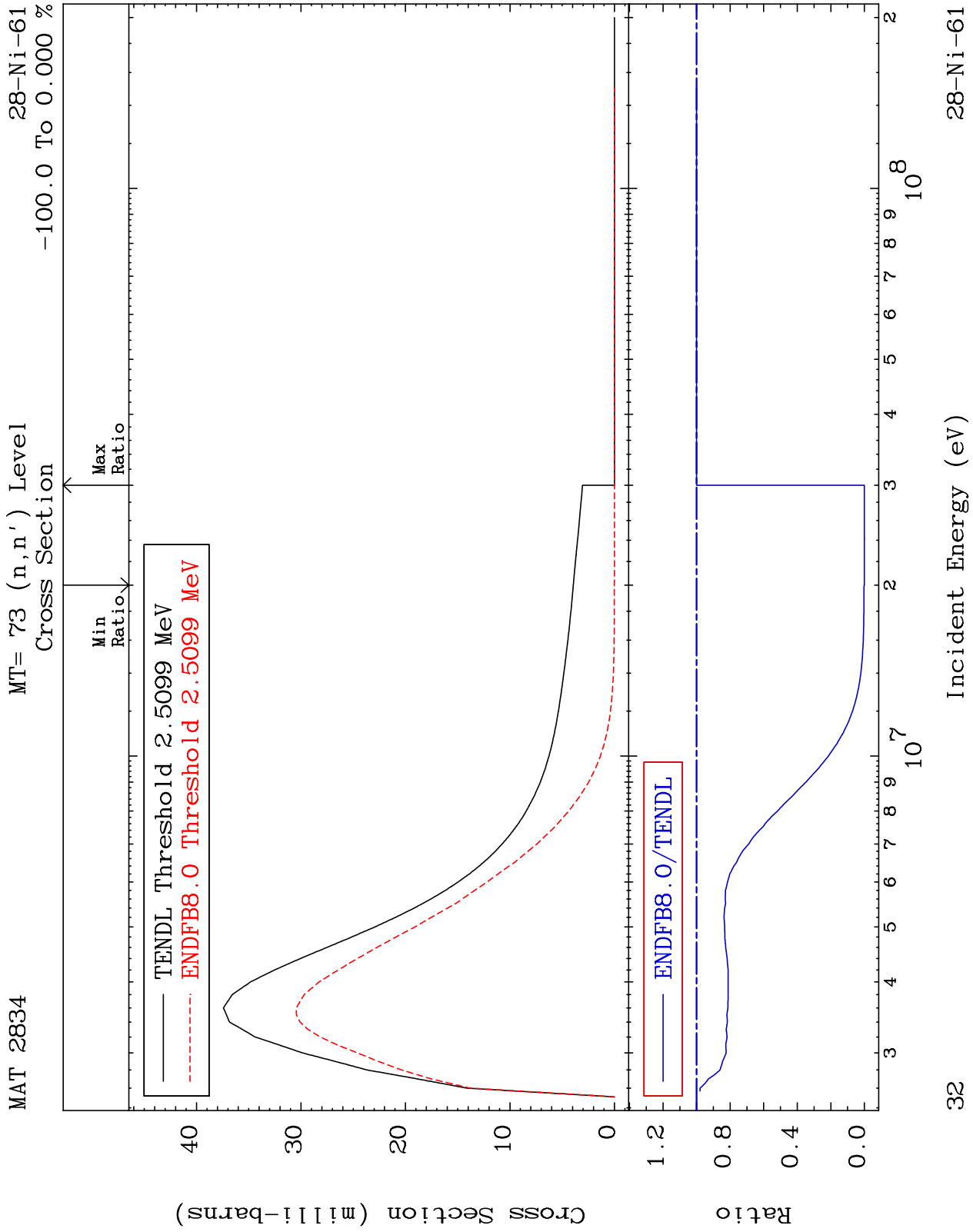


MAT 2834

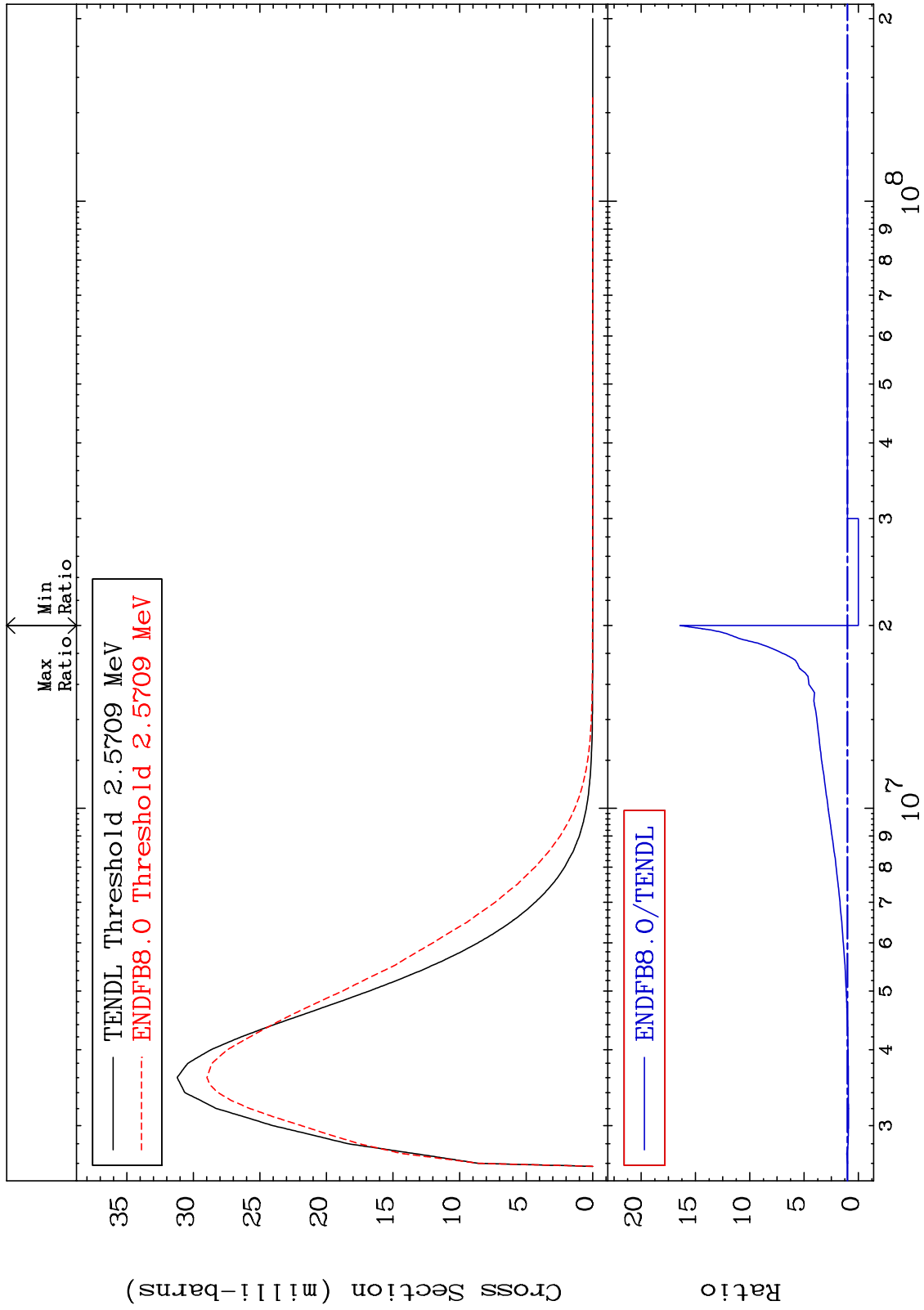
MT= 72 (n,n') Level
Cross Section

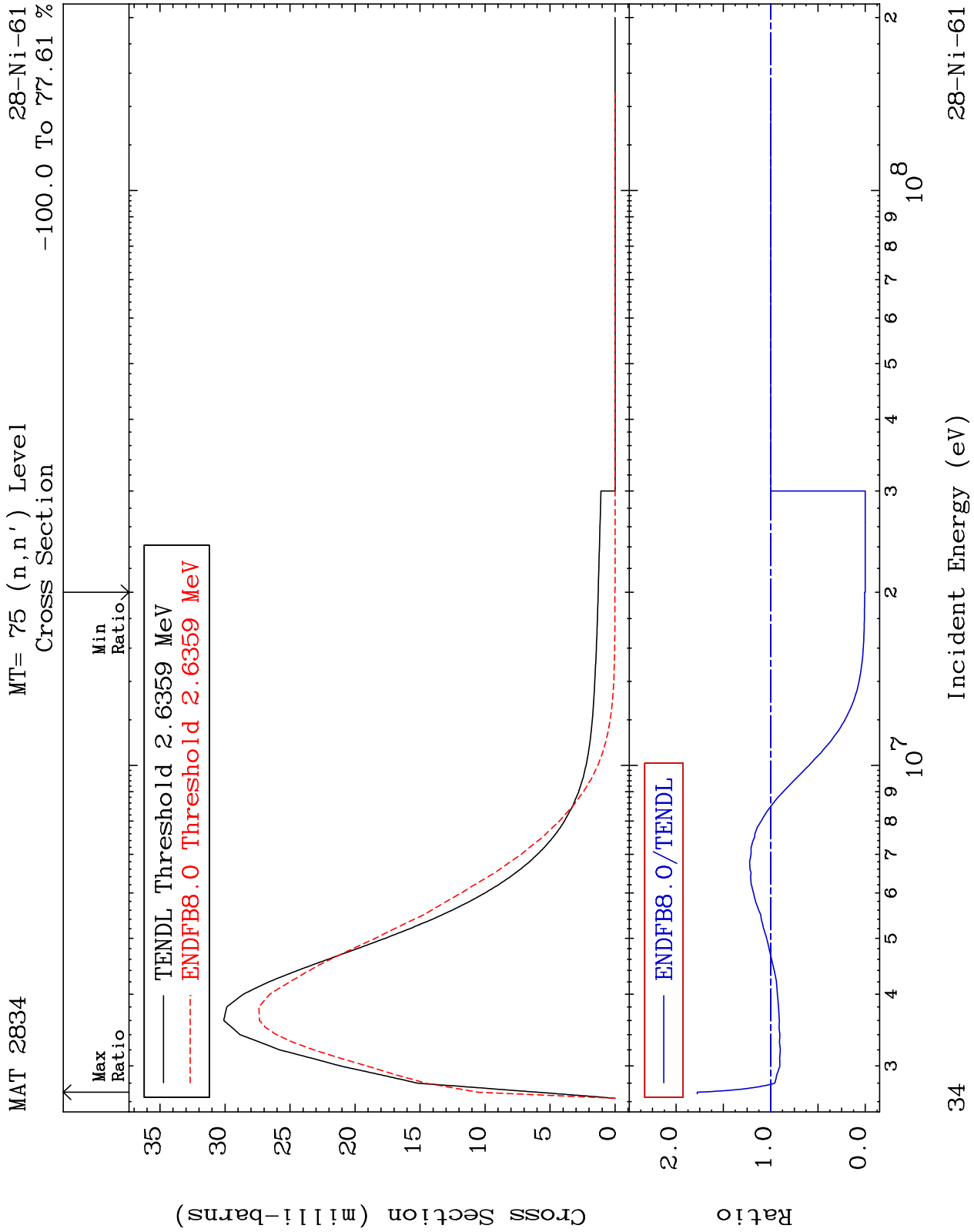
28-Ni-61
-100.0 To 97.21 %





MAT 2834 MT= 74 (n,n') Level Cross Section -100.0 To 1543. % 28-Ni-61

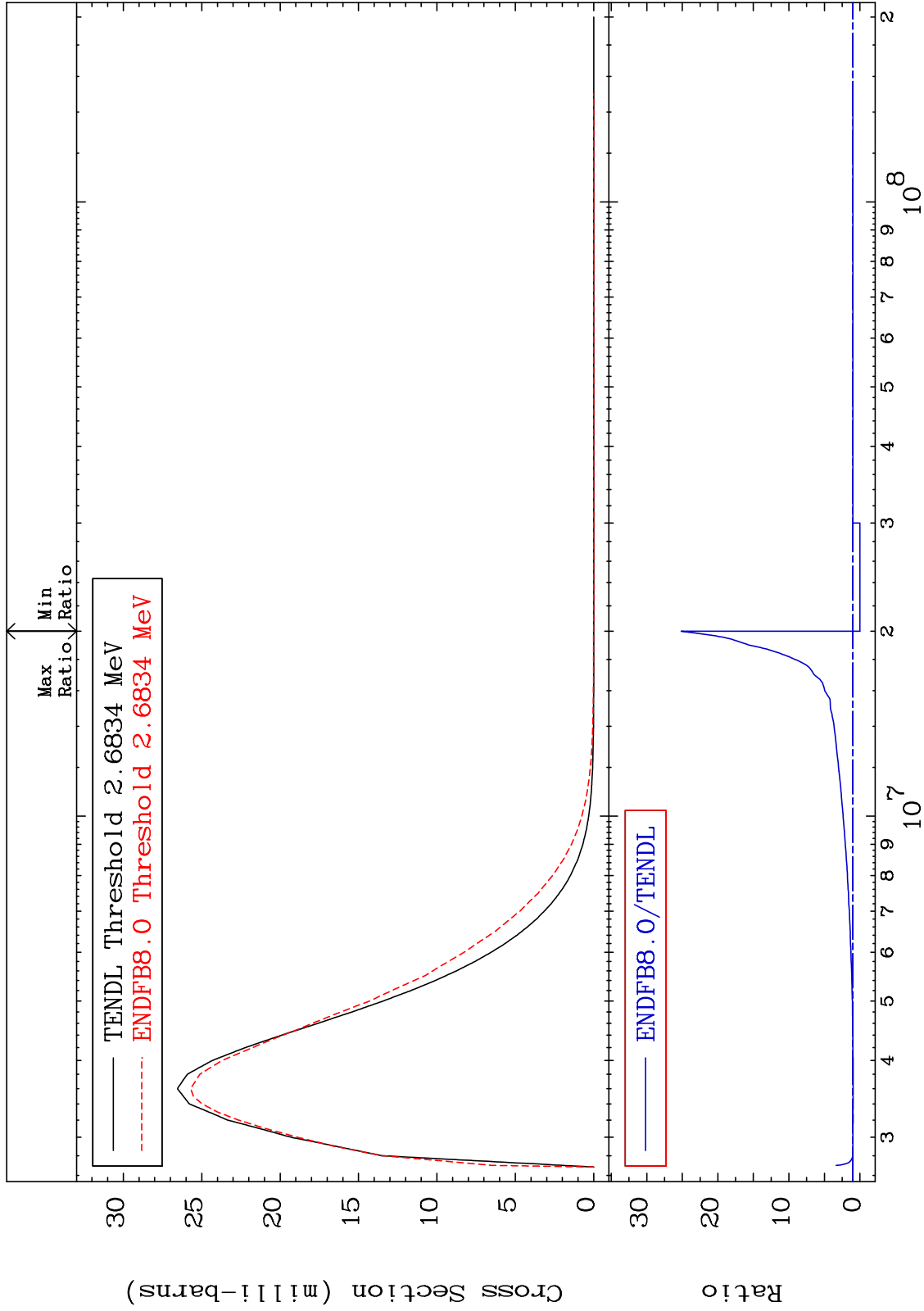




MAT 2834

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

28-Ni-61
-100.0 To 2415. %

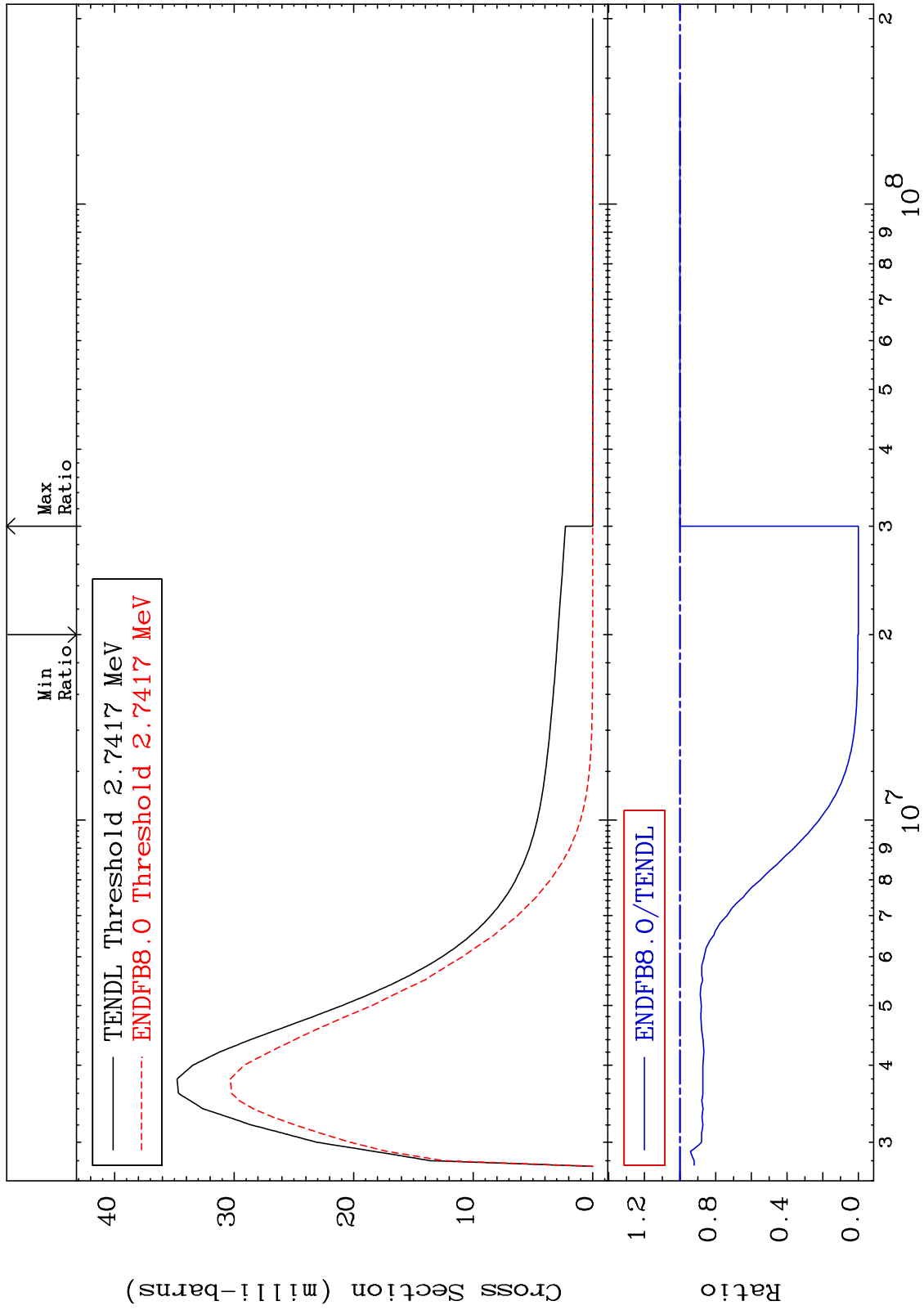


35

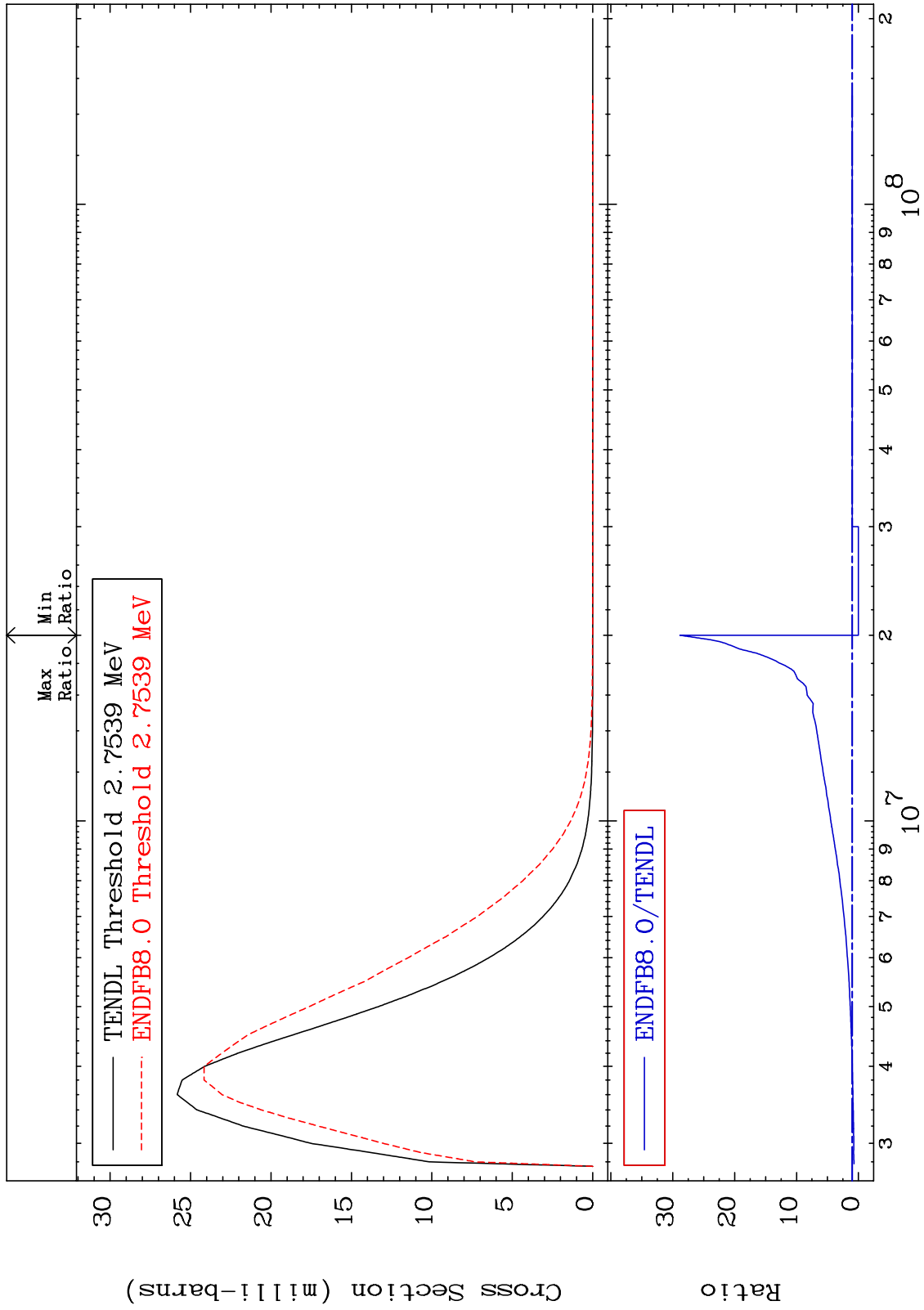
Incident Energy (eV)

28-Ni-61

MAT 2834 MT= 77 (n,n') Level Cross Section 28-Ni-61
 -100.0 To 0.000 %

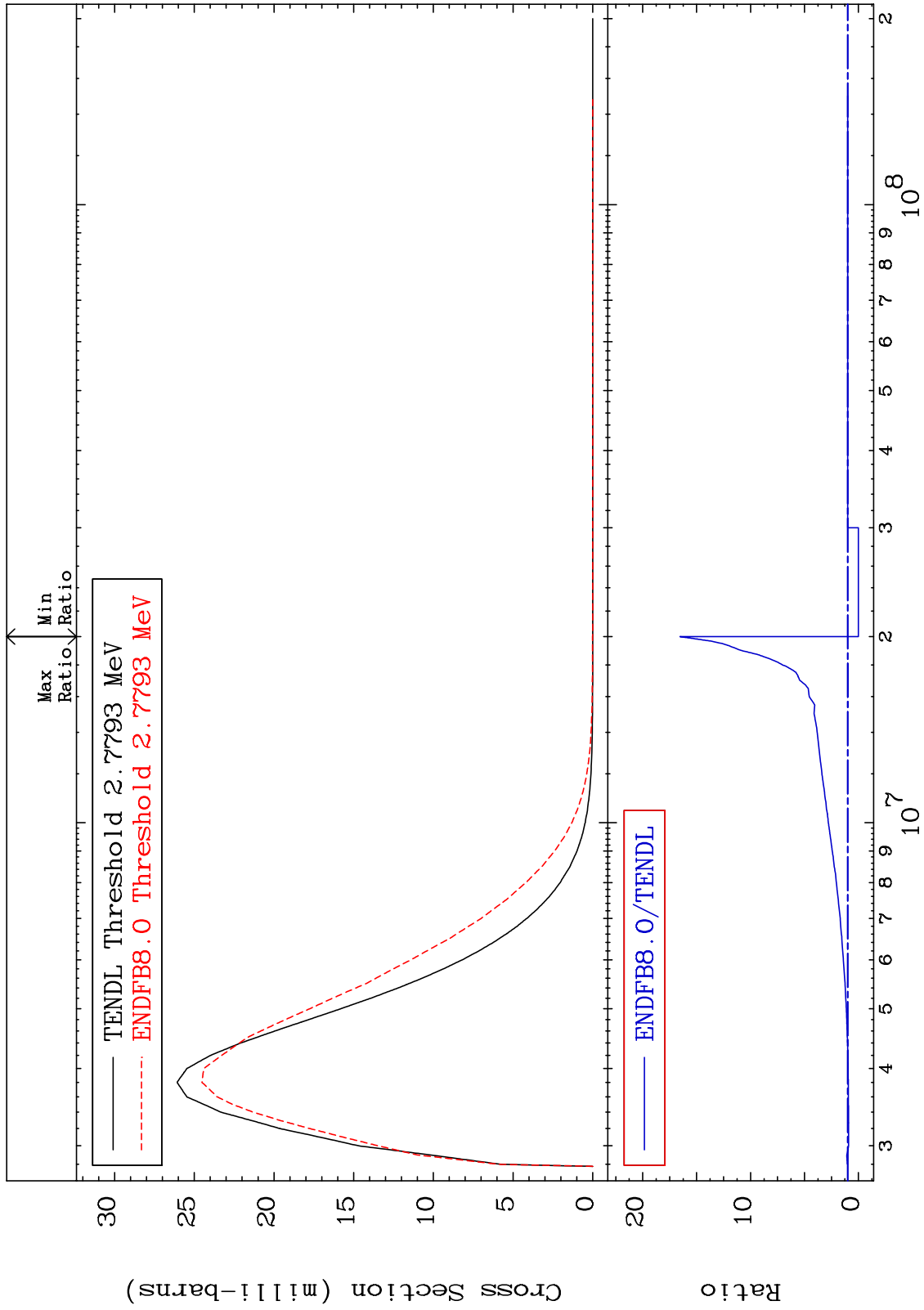


MAT 2834 MT= 78 (n,n') Level 28-Ni-61
Cross Section -100.0 To 2783. %

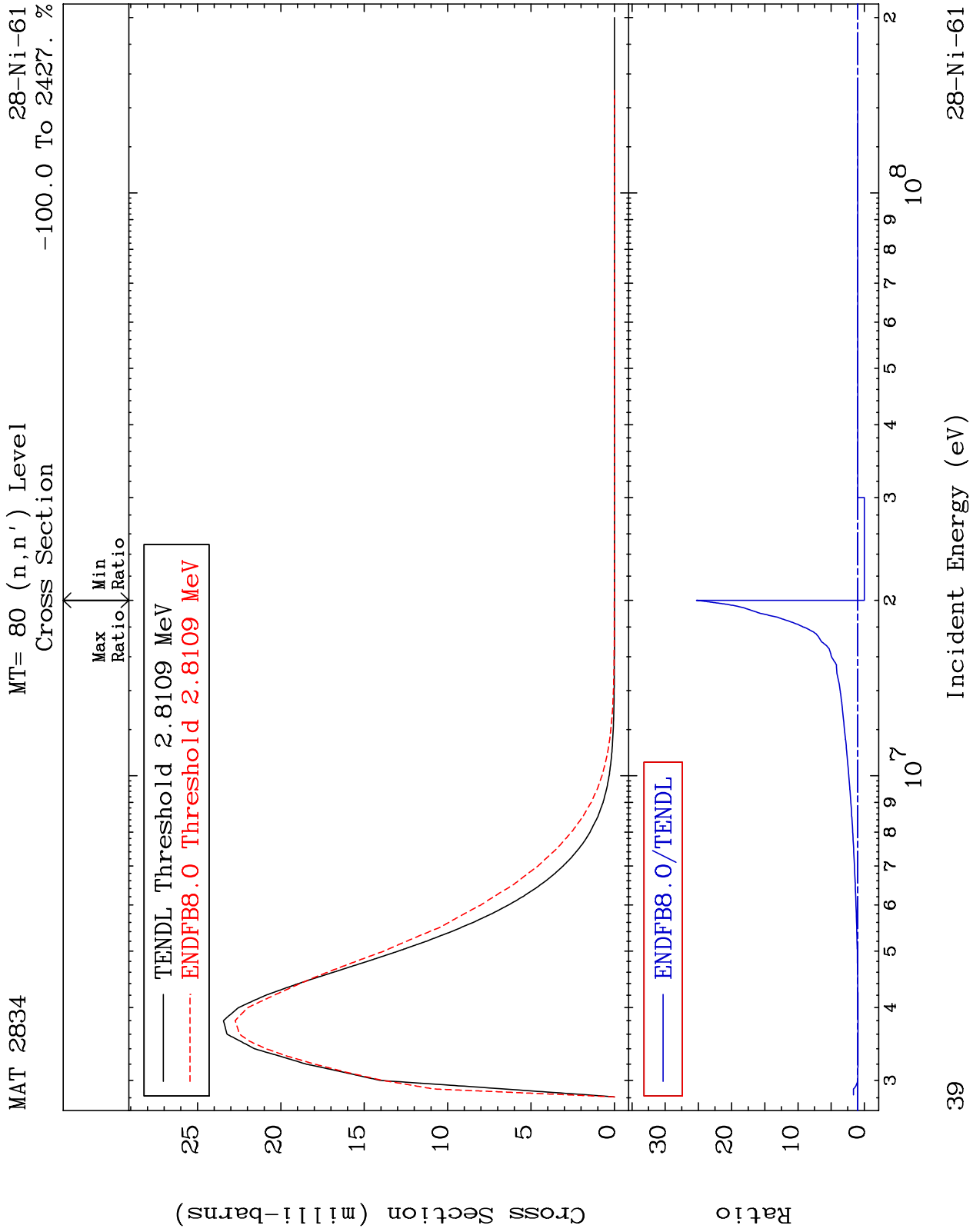


37 Incident Energy (eV) 28-Ni-61

MAT 2834 MT= 79 (n,n') Level Cross Section -100.0 To 1554. % 28-Ni-61



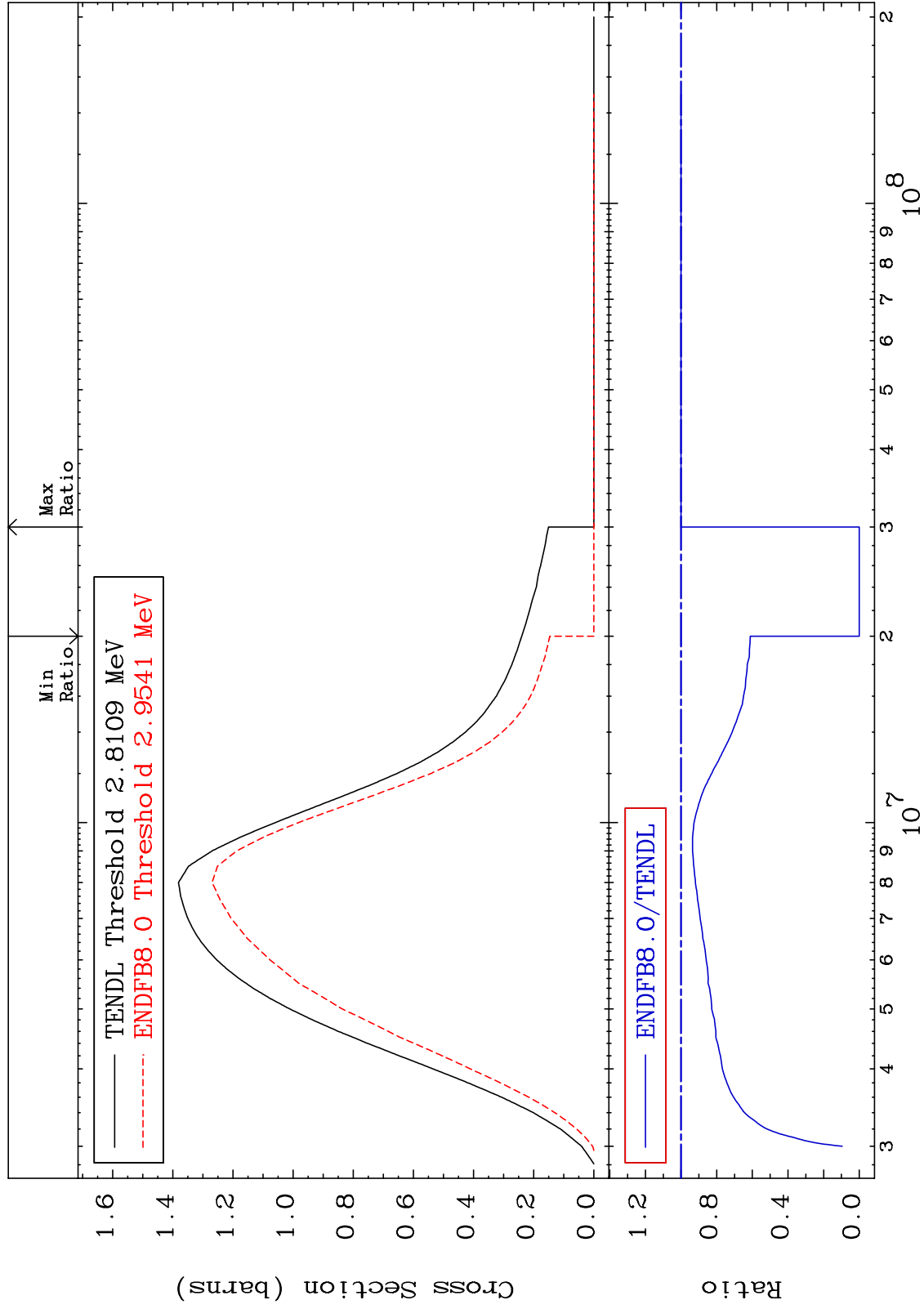
38 Incident Energy (eV) 28-Ni-61



MAT 2834

(n, n') Continuum
Cross Section

28-Ni-61
-100.0 To 0.000 %



40

Incident Energy (eV)

28-Ni-61

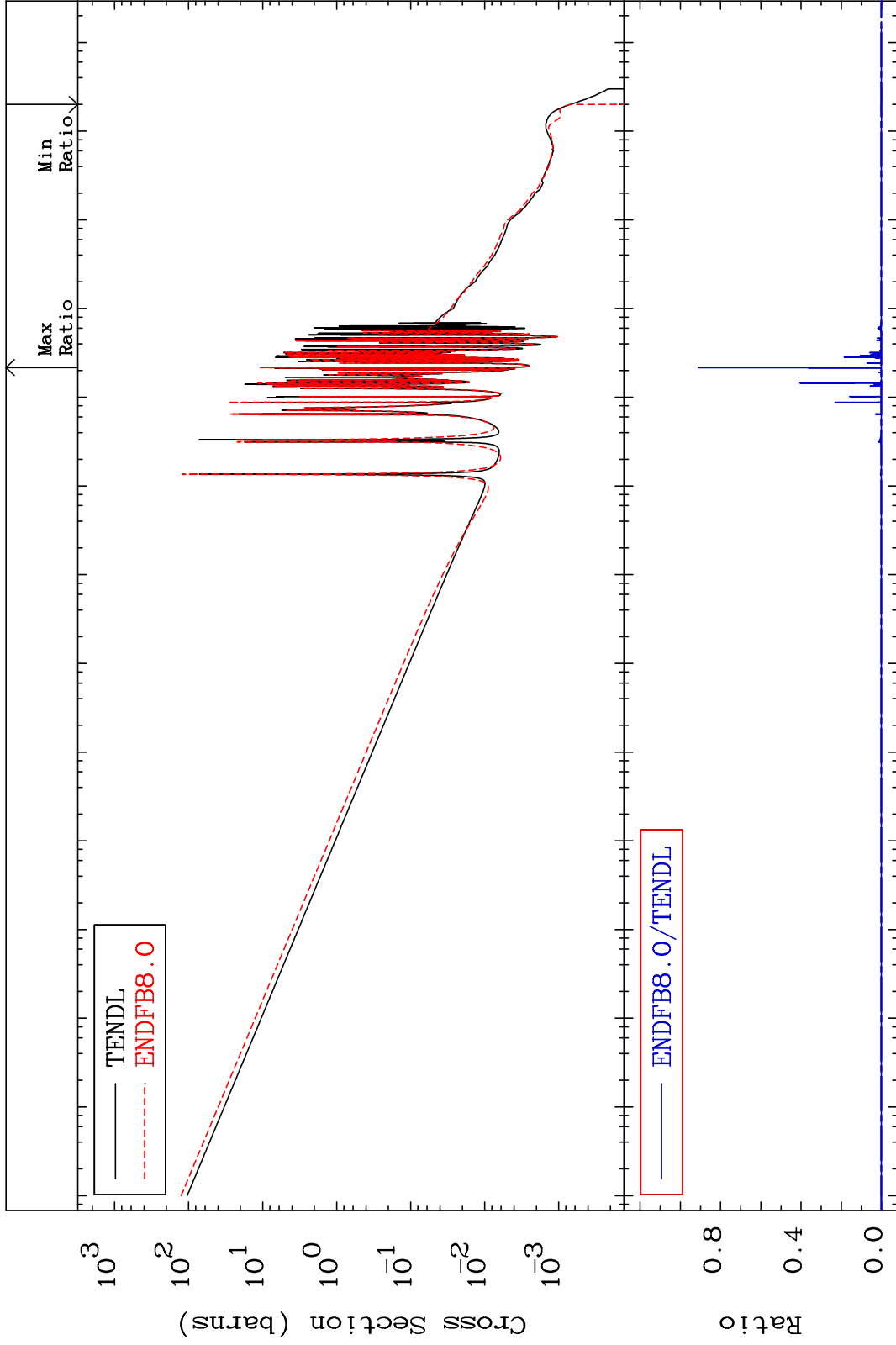
MAT 2834

(n, γ)

28-Ni-61

Cross Section

-100.0 To 9999. %



41

Incident Energy (eV)

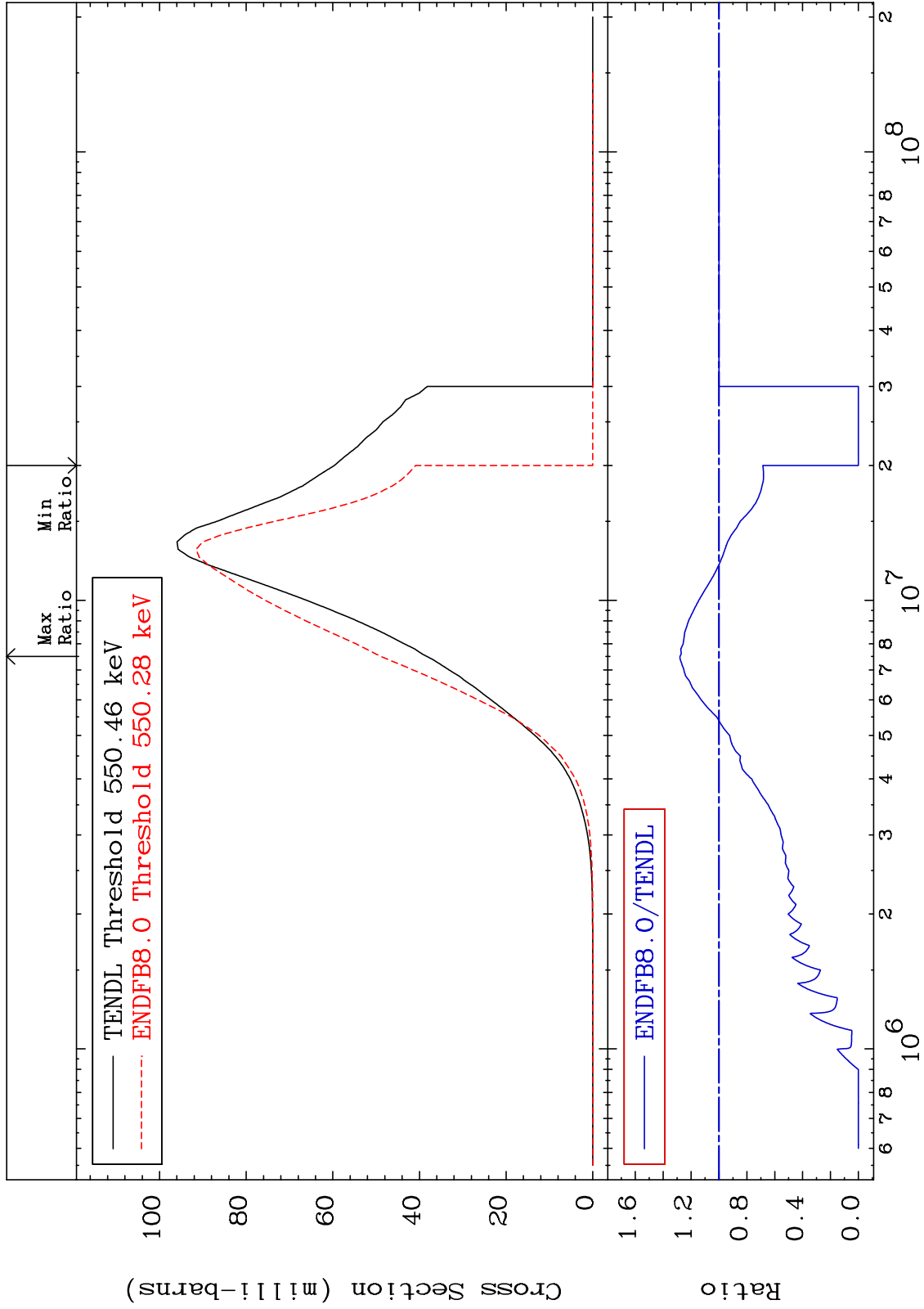
28-Ni-61

MAT 2834

²⁸Ni-61

(n,p) -100.0 To 27.91 %

Cross Section



42

Incident Energy (eV)

²⁸Ni-61

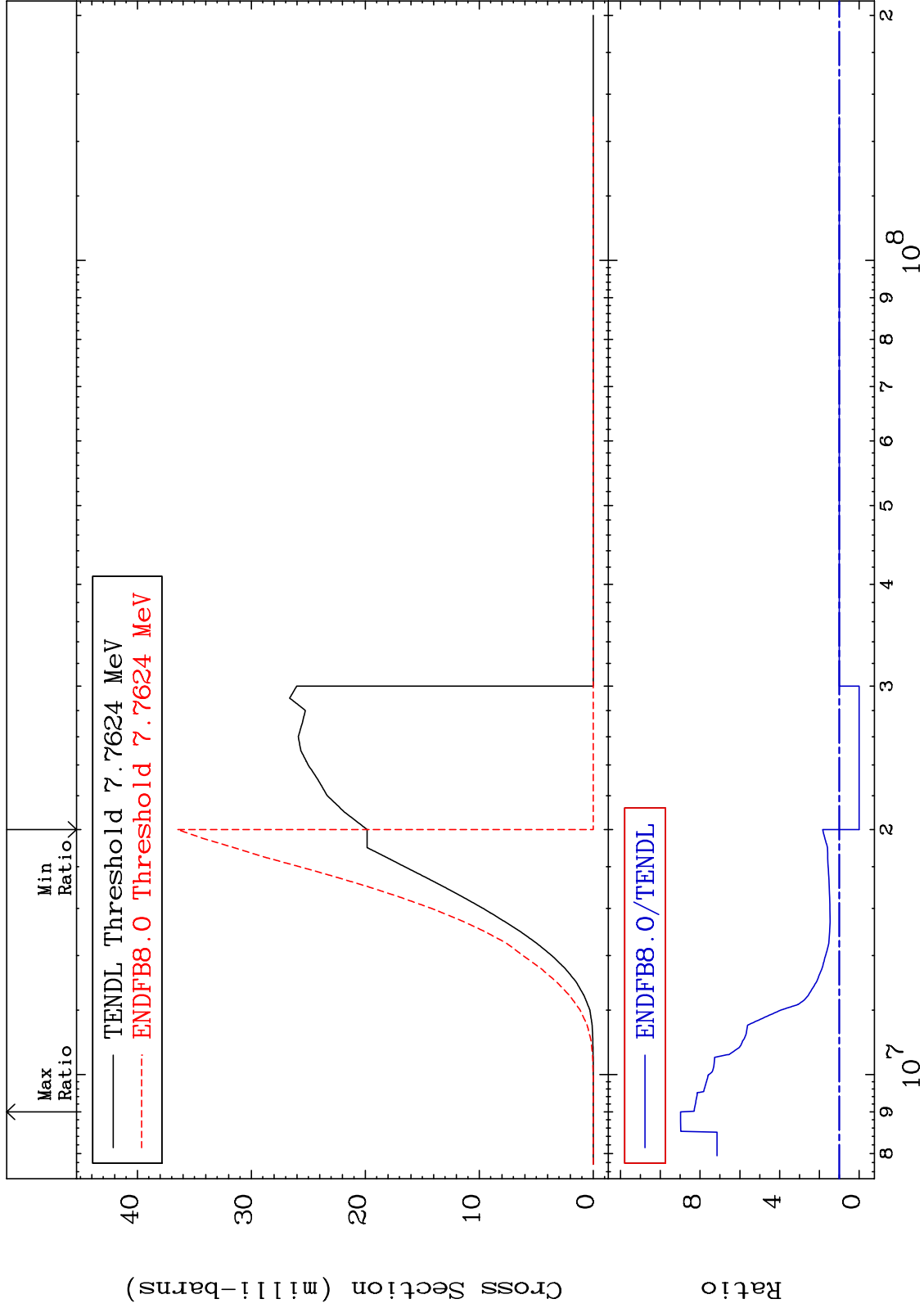
MAT 2834

(n,d)

28-Ni-61

Cross Section

-100.0 To 797.7 %



43

Incident Energy (eV)

28-Ni-61

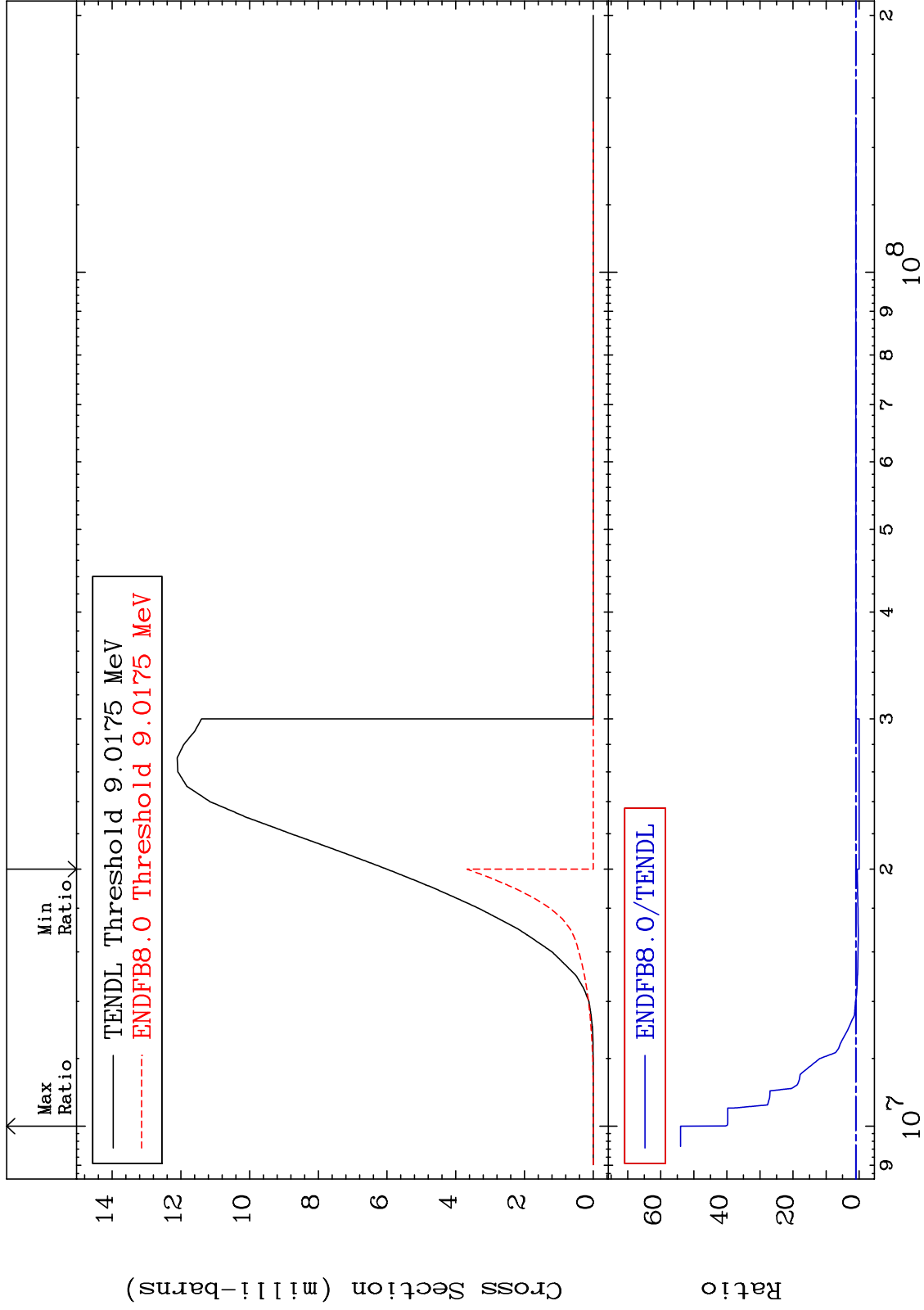
MAT 2834

(n, t)

28-Ni-61

Cross Section

-100.0 To 5300. %



44

Incident Energy (eV)

28-Ni-61

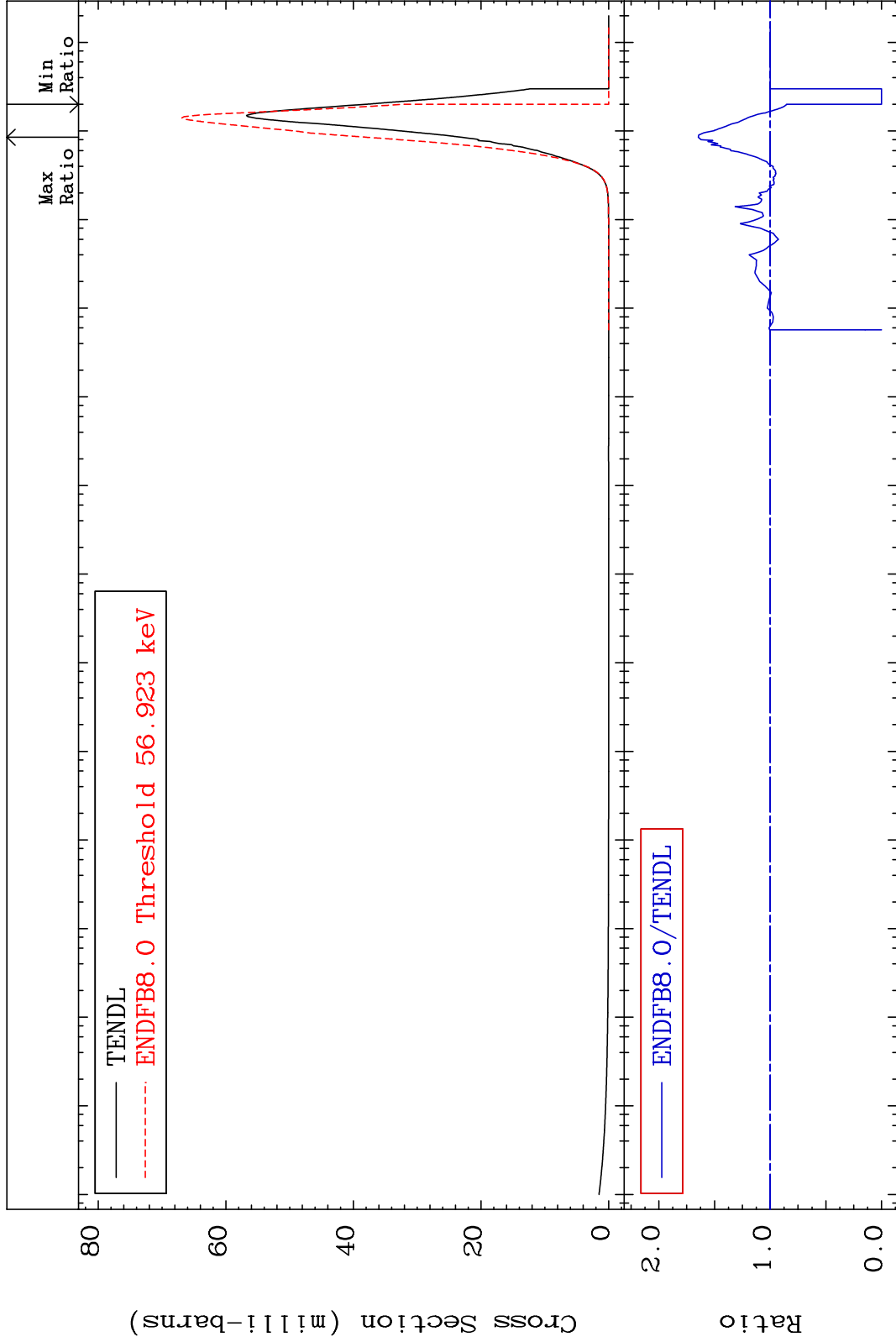
MAT 2834

(n, α)

28-Ni-61

Cross Section

-100.0 To 64.54 %



45

Incident Energy (eV)

28-Ni-61

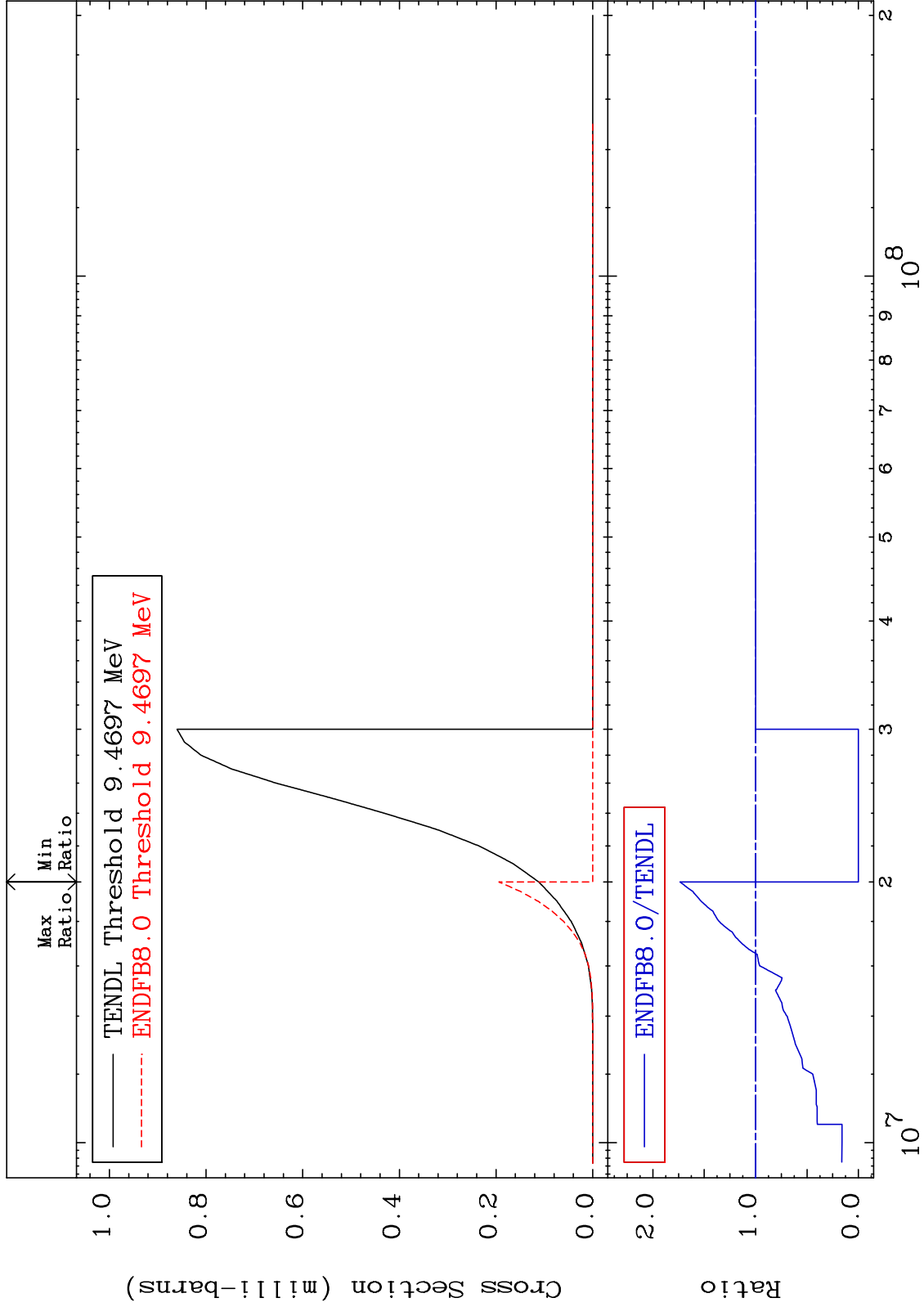
MAT 2834

(n,2p)

28-Ni-61

Cross Section

-100.0 To 73.57 %



46

28-Ni-61

28-Ni-61

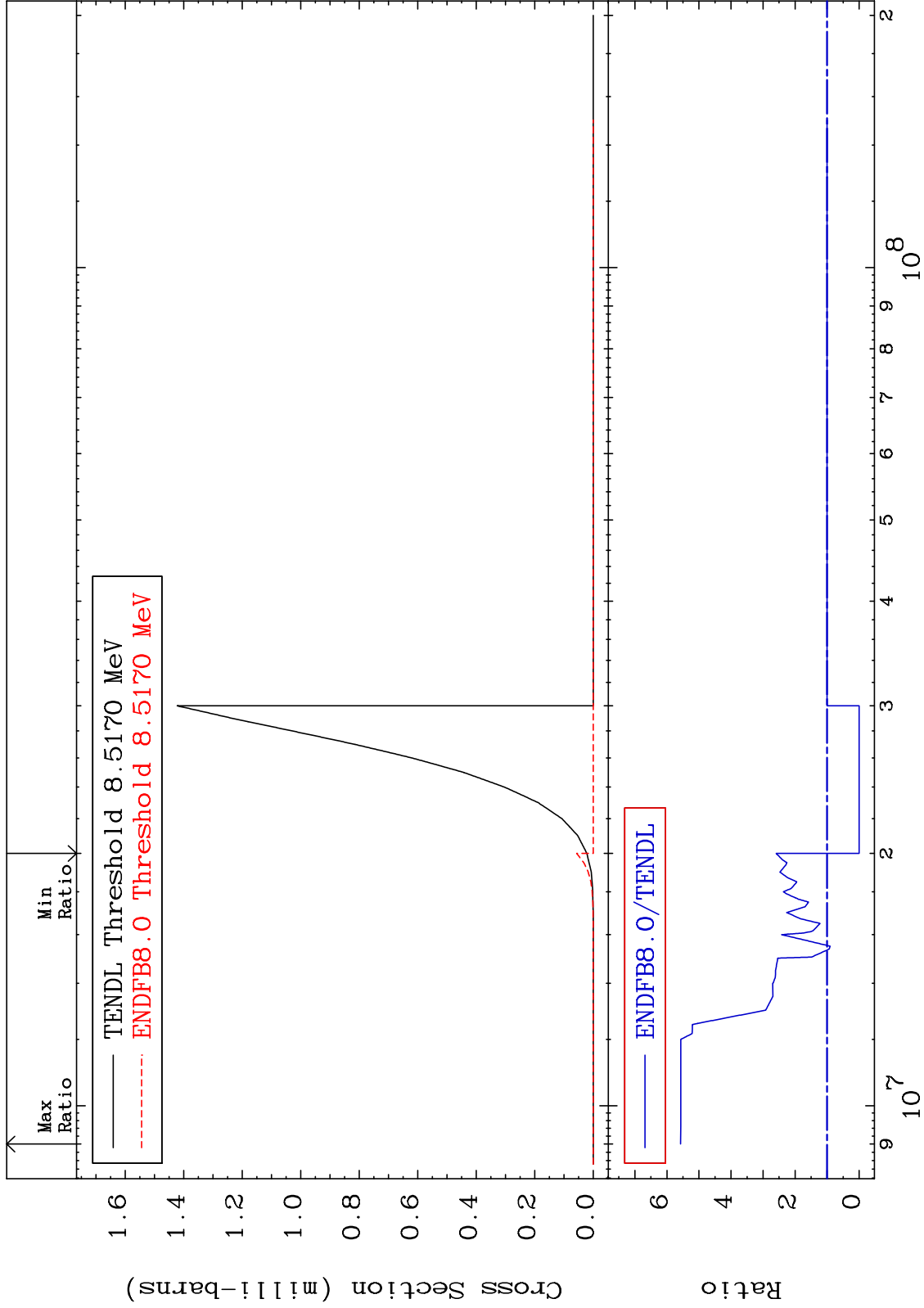
MAT 2834

(n,p) α

28-Ni-61

Cross Section

-100.0 To 457.2 %



47

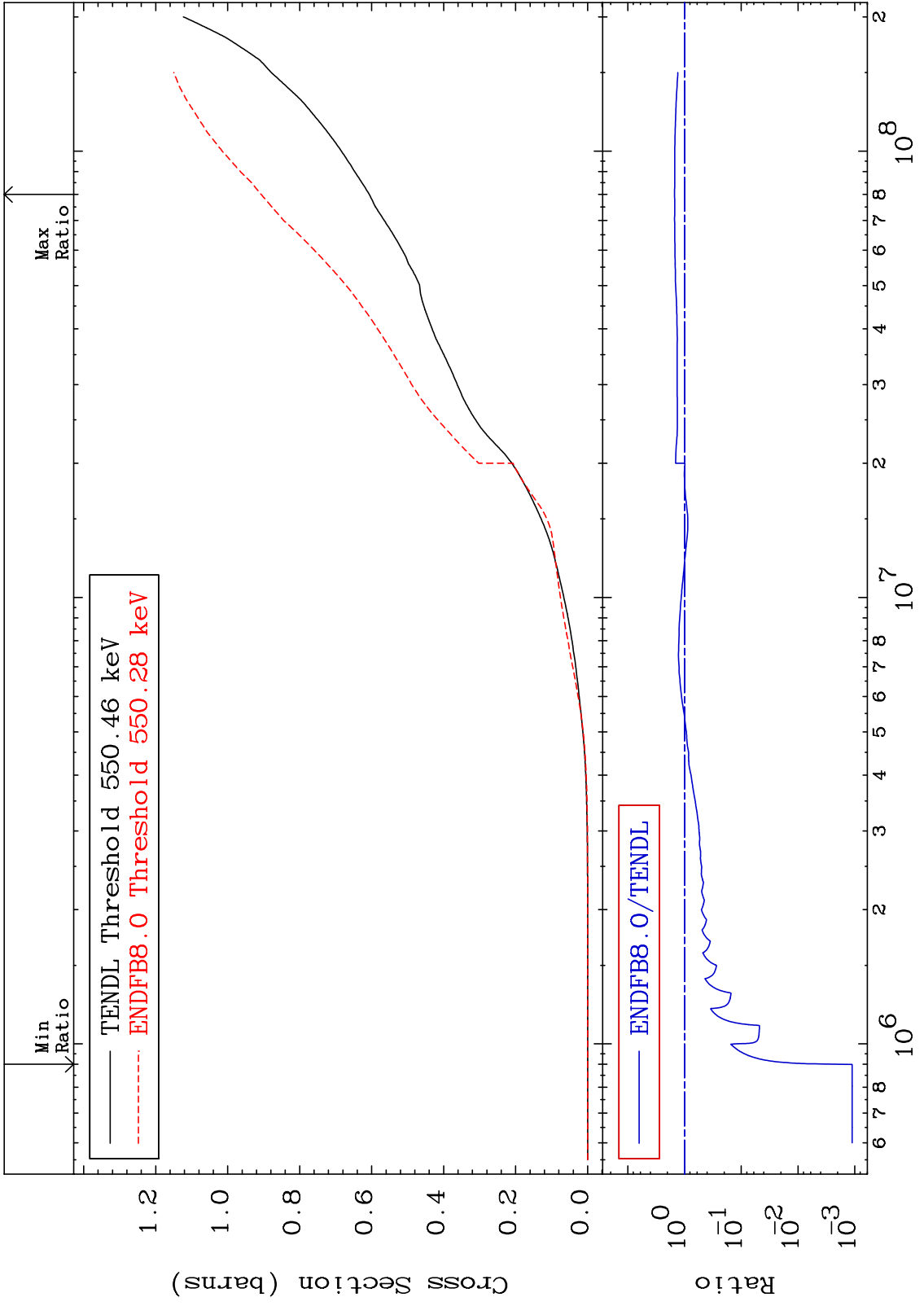
Incident Energy (eV)

28-Ni-61

MAT 2834

Hydrogen Production
Cross Section

28-Ni-61
-99.89 To 49.54 %



48

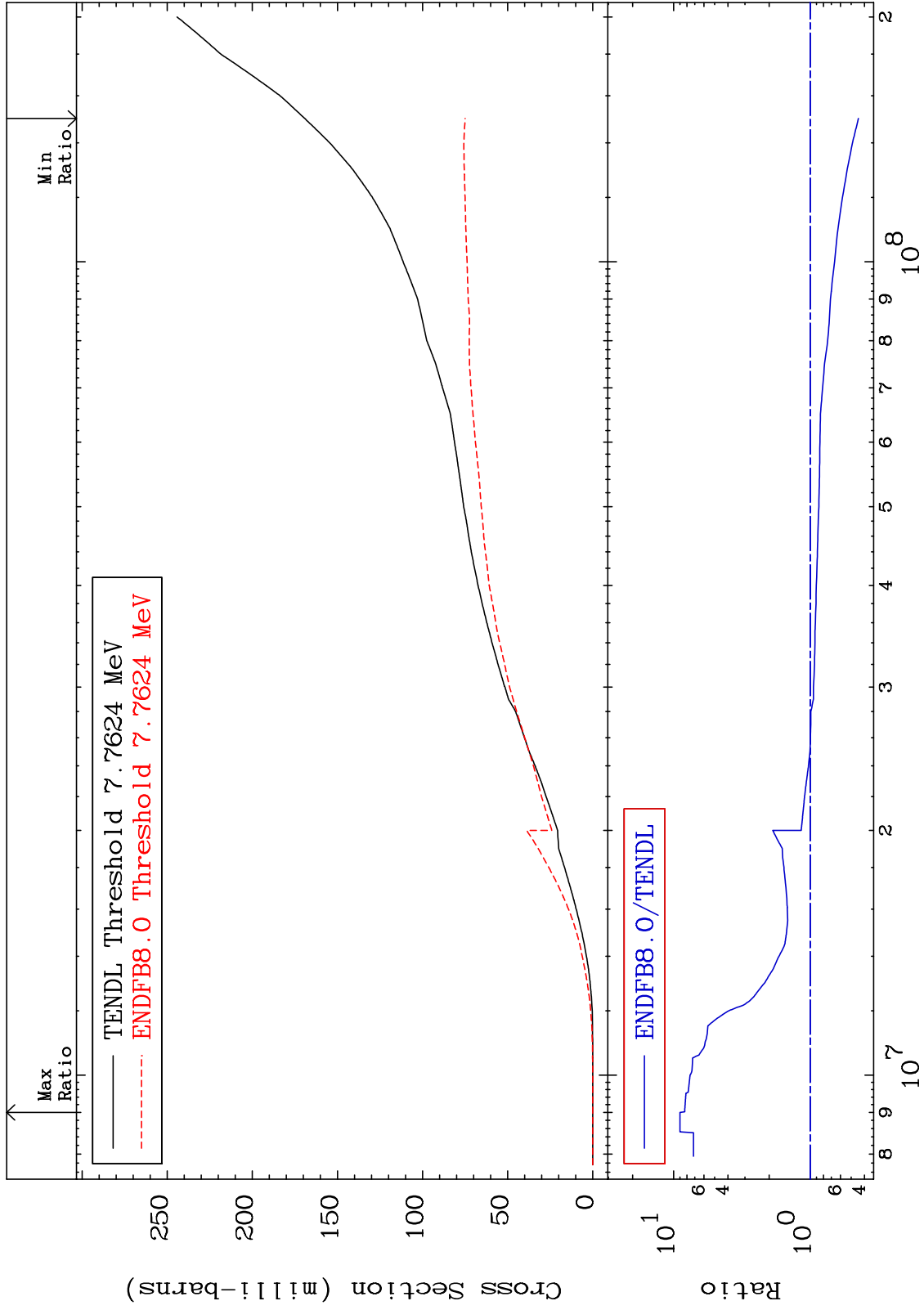
Incident Energy (eV)

28-Ni-61

MAT 2834

Deuterium Production
Cross Section

28-Ni-61
-55.68 To 797.7 %



49

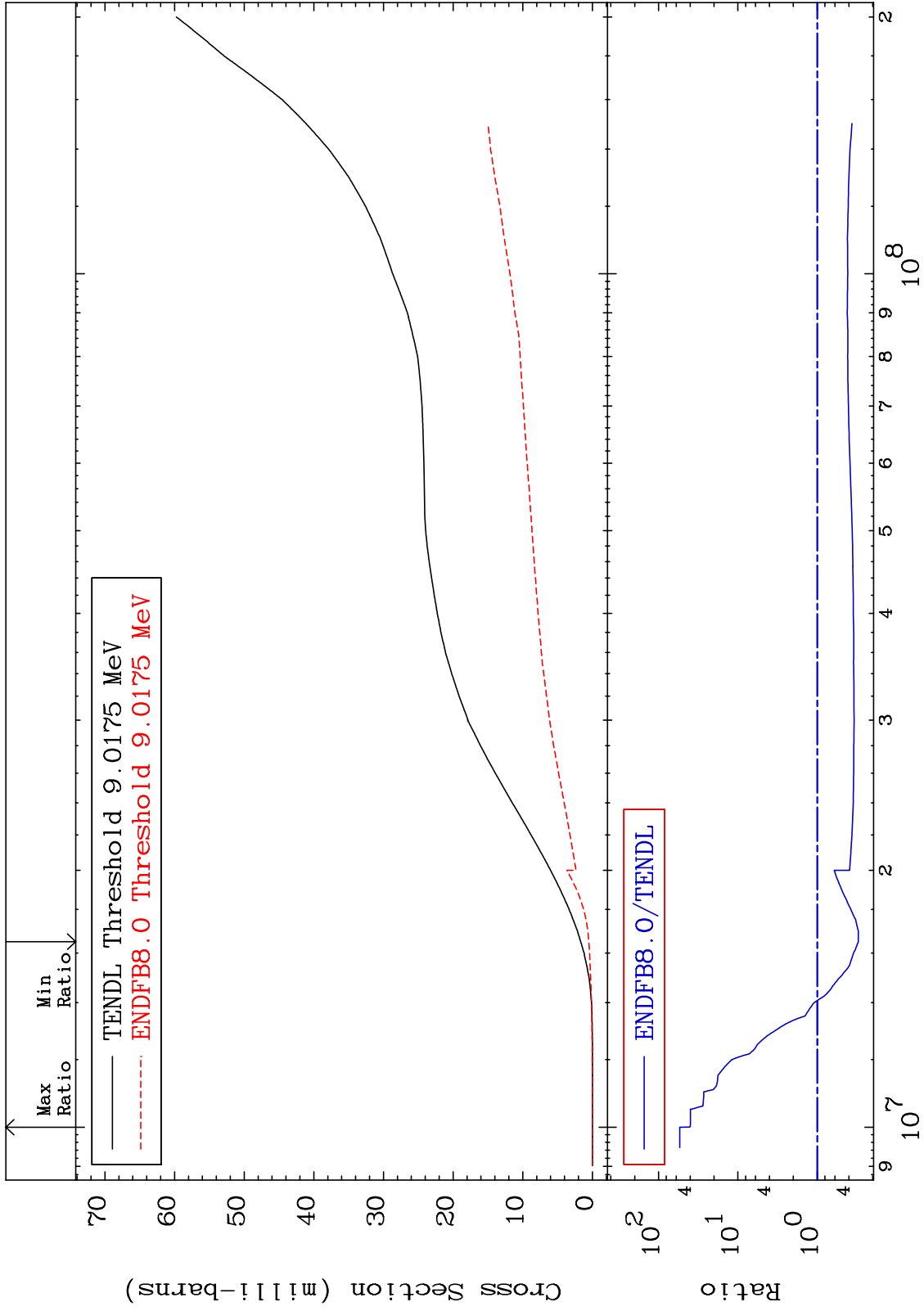
Incident Energy (eV)

28-Ni-61

MAT 2834

Tritium Production
Cross Section

²⁸Ni-61
-69.68 To 5300. %



Max Ratio
Min Ratio

— TENDL Threshold 9.0175 MeV
- - - ENDFB8.0 Threshold 9.0175 MeV

ENDFB8.0/TENDL

²⁸Ni-61

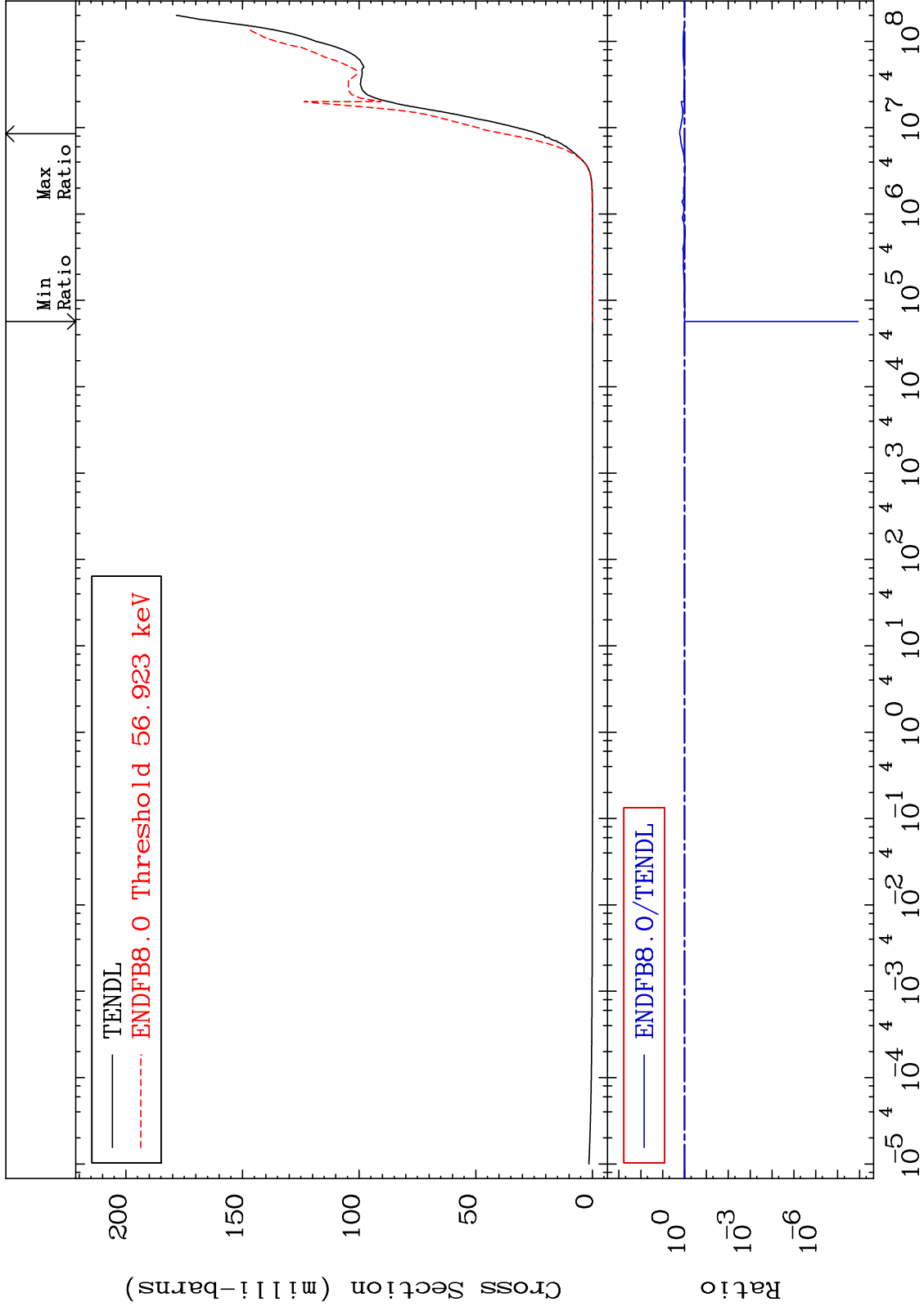
Incident Energy (eV)

50

MAT 2834

He-4 Production
Cross Section

28-Ni-61
-100.0 To 64.54 %



51

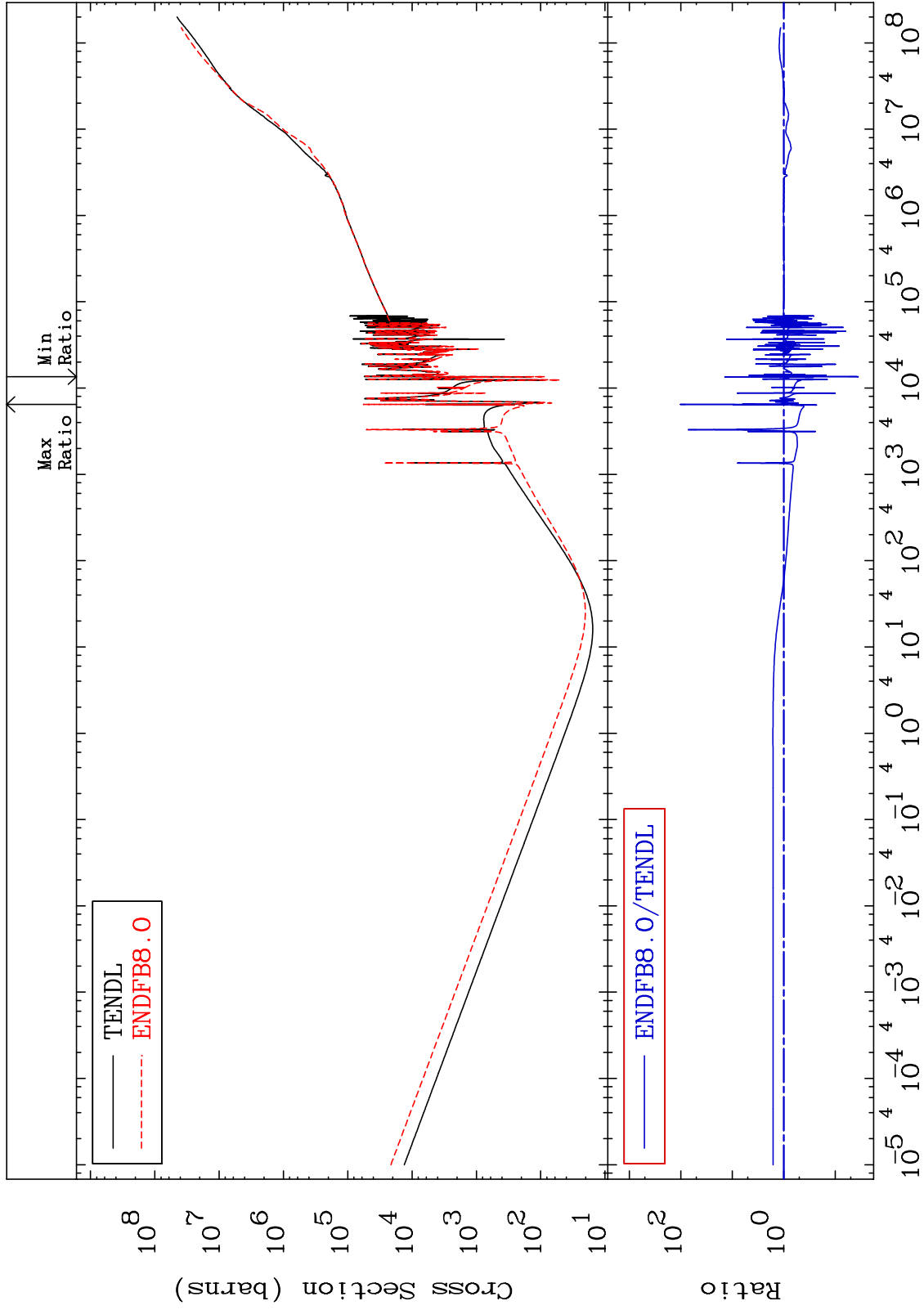
Incident Energy (eV)

28-Ni-61

MAT 2834

Kerma total (eV-barns)
Cross Section

28-Ni-61
-96.45 To 9999. %



52

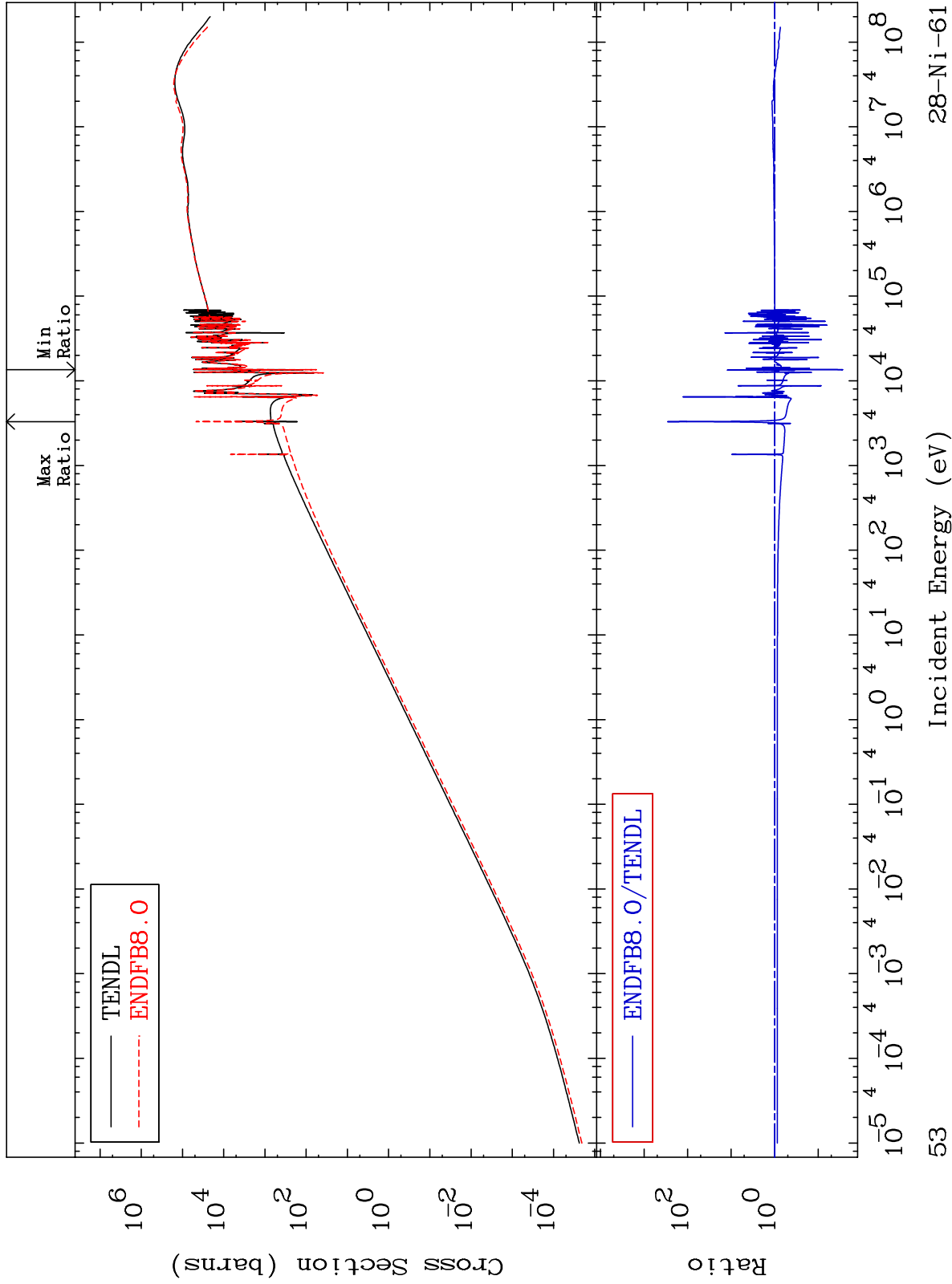
Incident Energy (eV)

28-Ni-61

MAT 2834

Kerma elastic
Cross Section

28-Ni-61
-97.26 To 9999. %



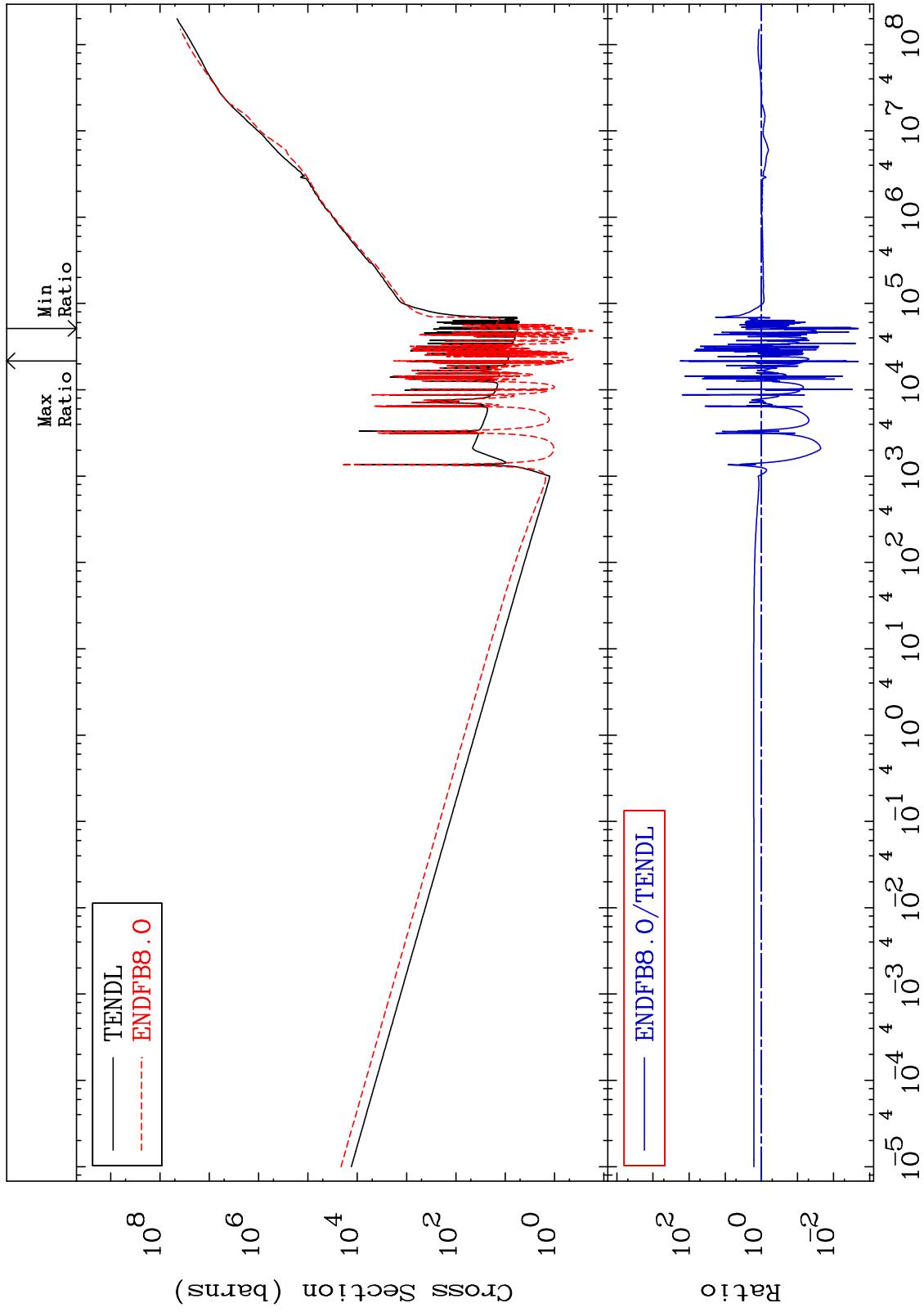
53

28-Ni-61

MAT 2834

Kerma non-elastic (all but mt2)
Cross Section

28-Ni-61
-99.79 To 9999. %



54

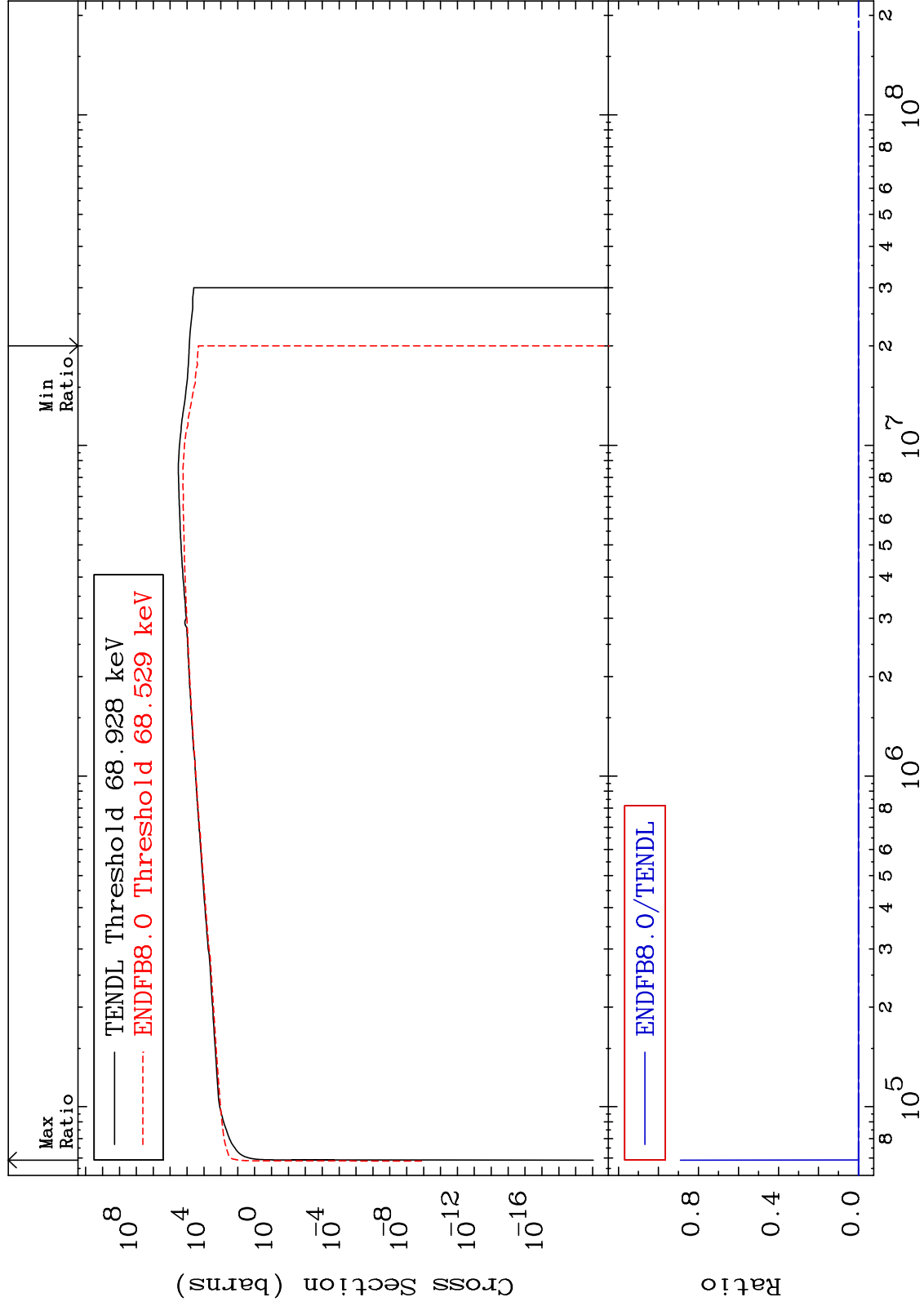
Incident Energy (eV)

28-Ni-61

MAT 2834

Kerma inelastic (mt51-91)
Cross Section

28-Ni-61
-100.0 To 9999. %



55

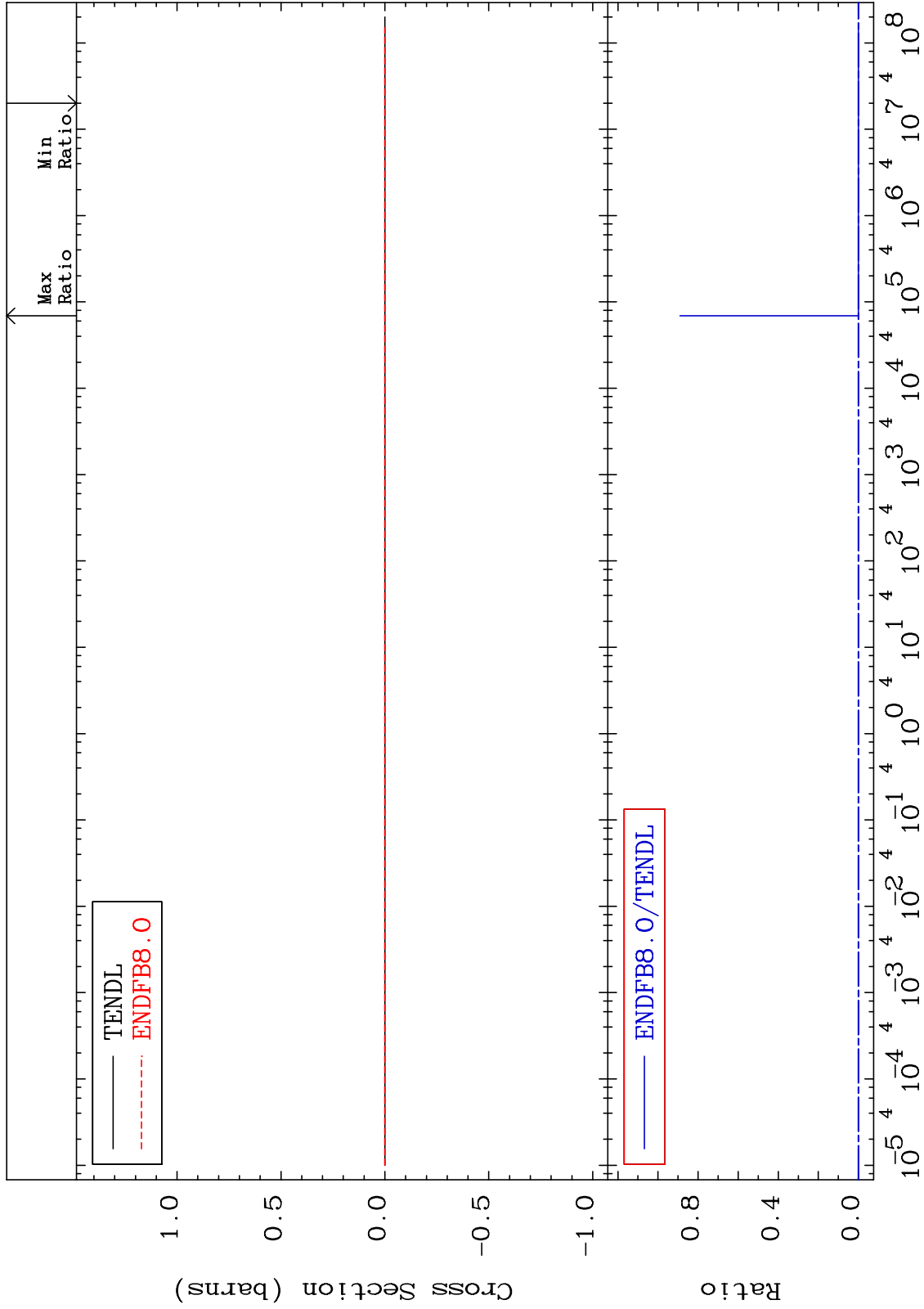
Incident Energy (eV)

28-Ni-61

MAT 2834

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

28-Ni-61
-100.0 To 9999. %



56

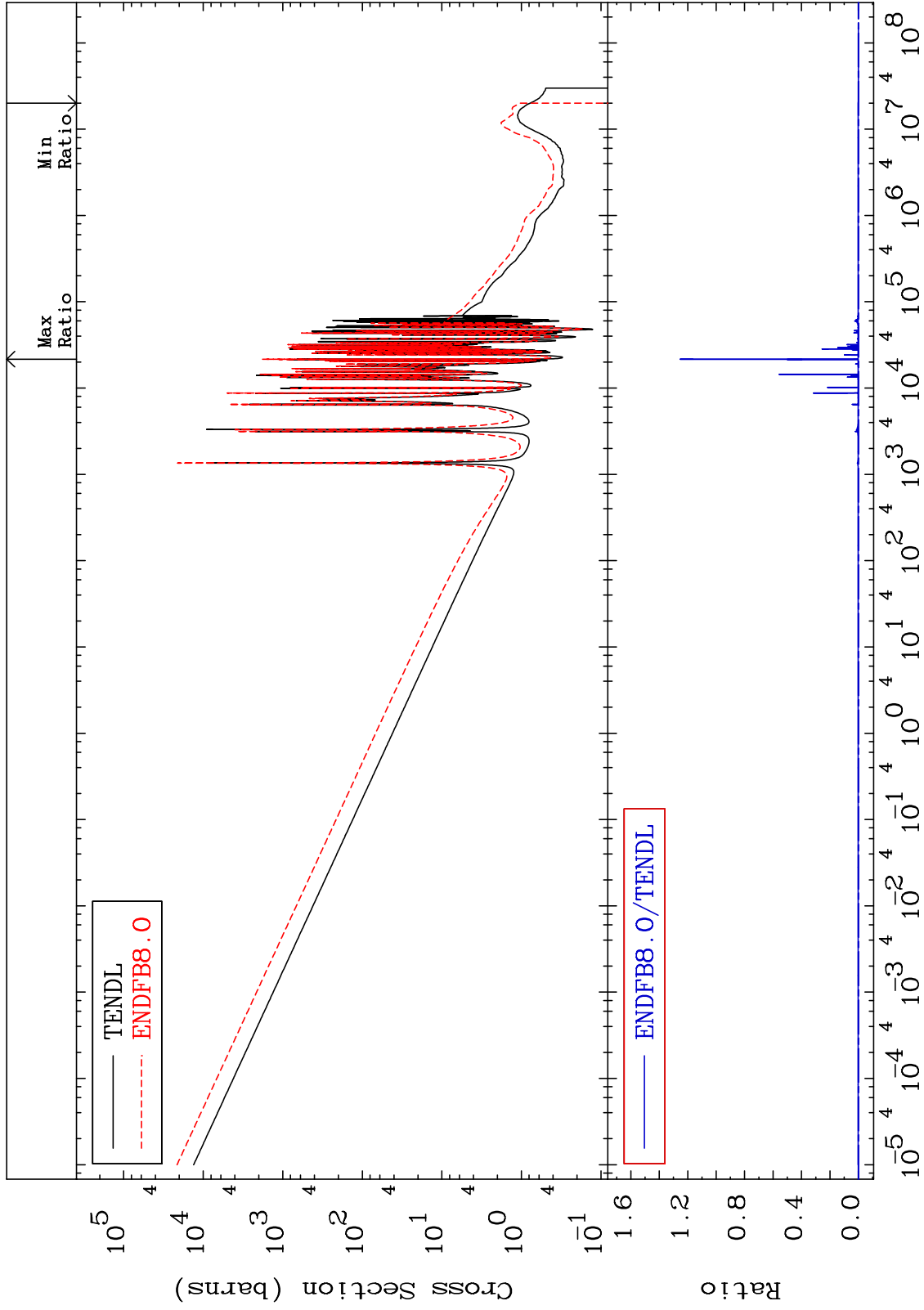
Incident Energy (eV)

28-Ni-61

MAT 2834

Kerma capture (mt102)
Cross Section

28-Ni-61
-100.0 To 9999. %



57

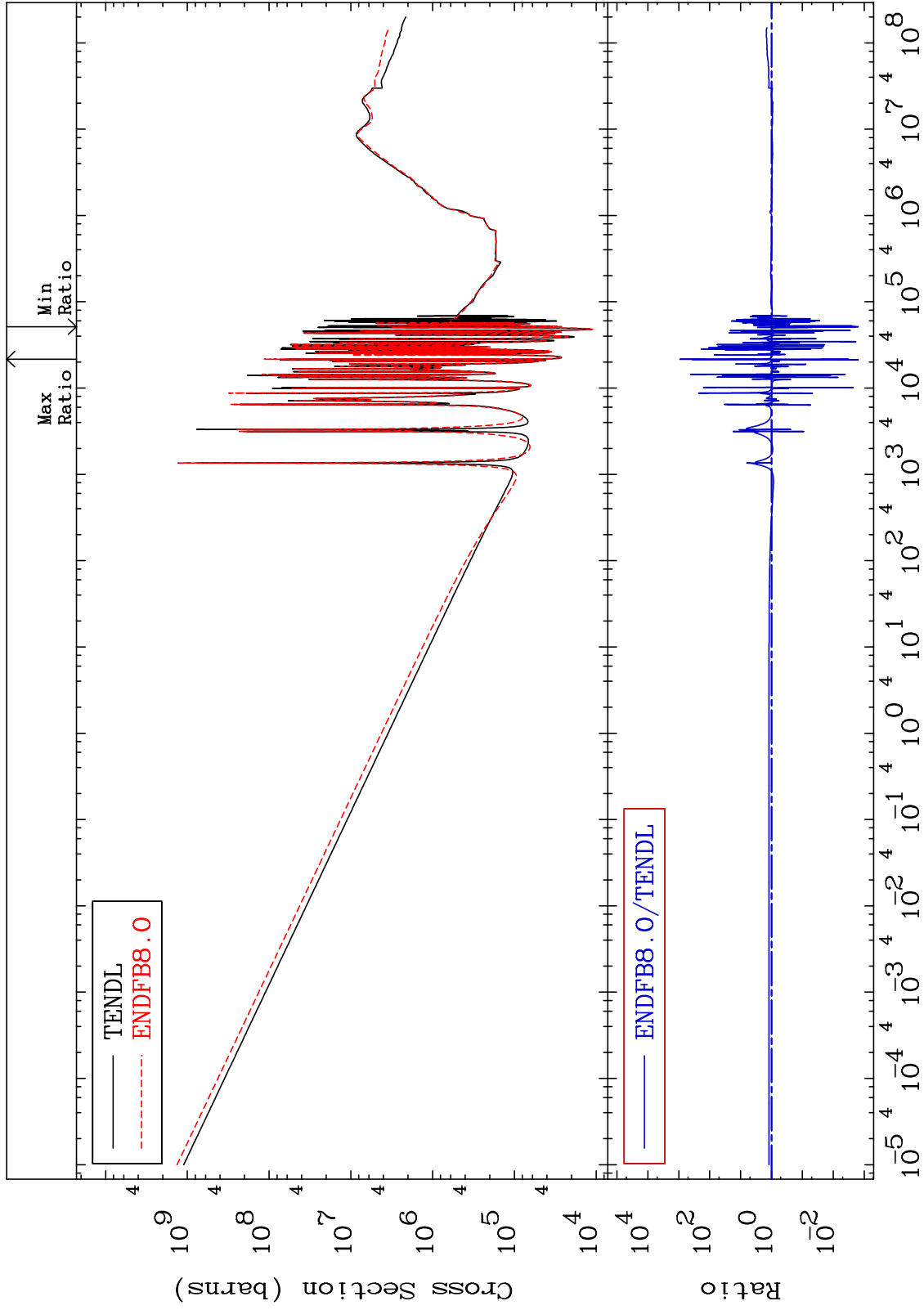
Incident Energy (eV)

28-Ni-61

MAT 2834

Total photon (eV-barns)
Cross Section

28-Ni-61
-99.85 To 9999. %



58

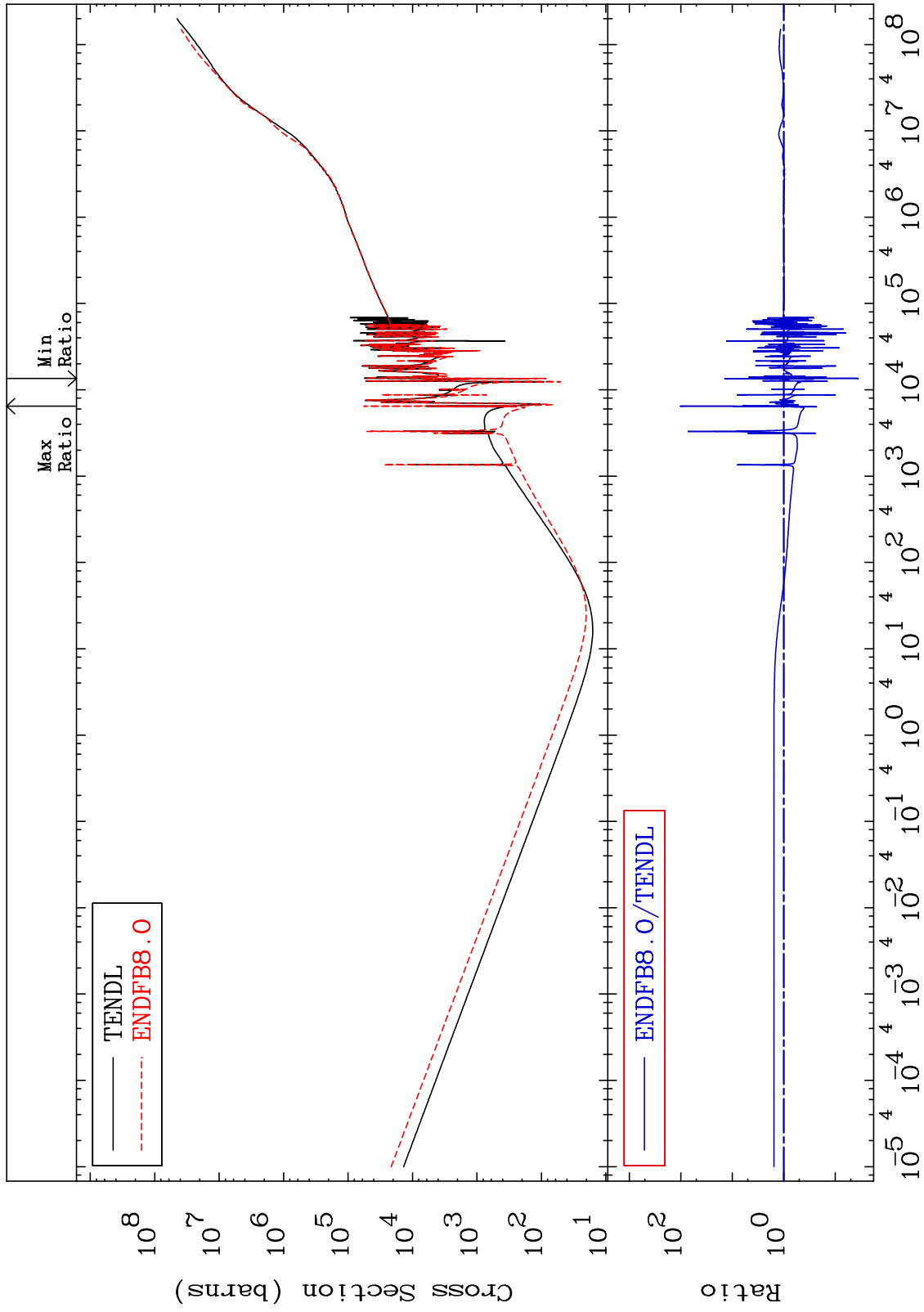
Incident Energy (eV)

28-Ni-61

MAT 2834

Total kinematic kerma (high limit)
Cross Section

28-Ni-61
-96.45 To 9999. %



59

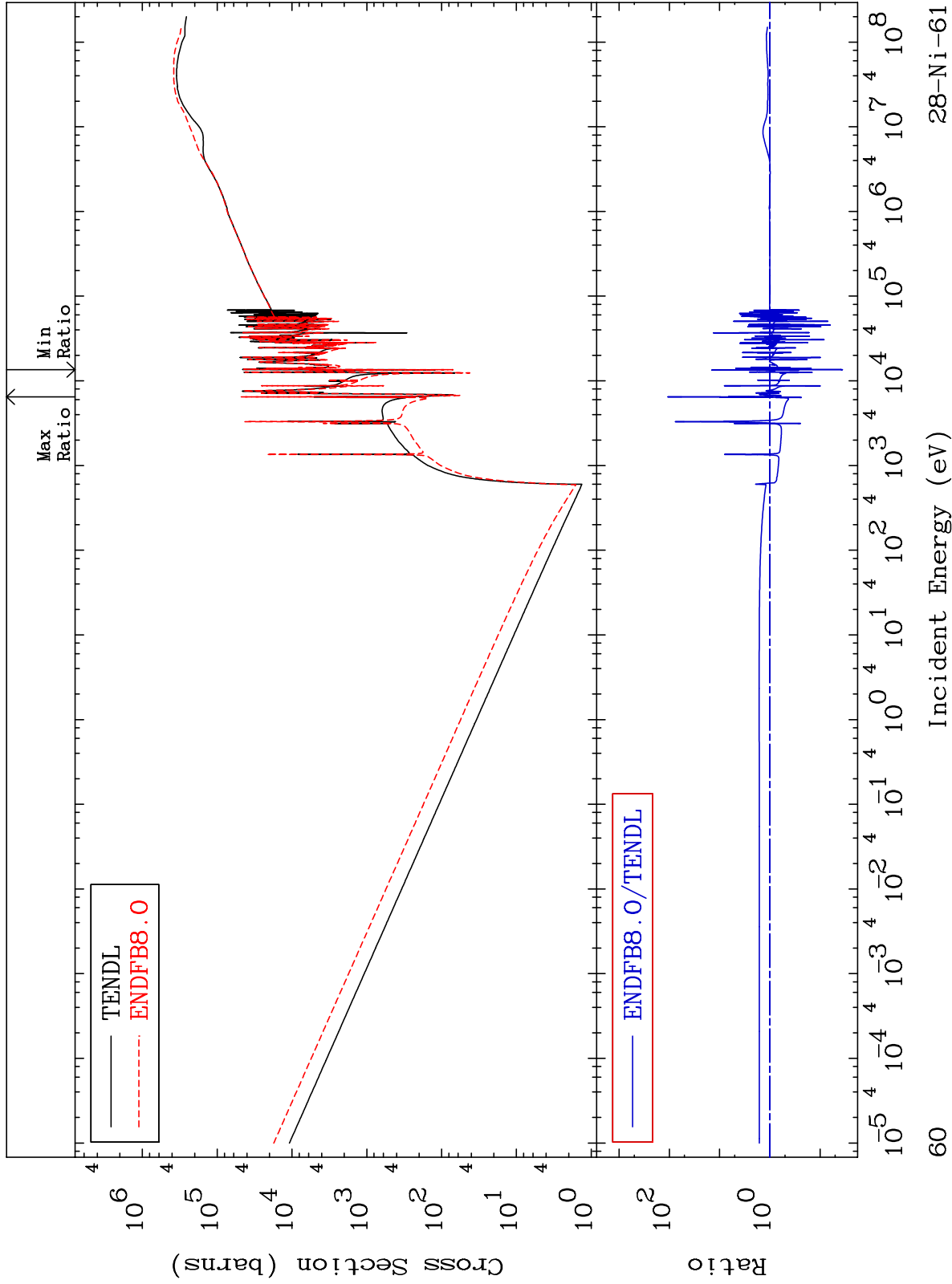
Incident Energy (eV)

28-Ni-61

MAT 2834

Dpa total (eV-barns)
Cross Section

28-Ni-61
-96.45 To 9999. %



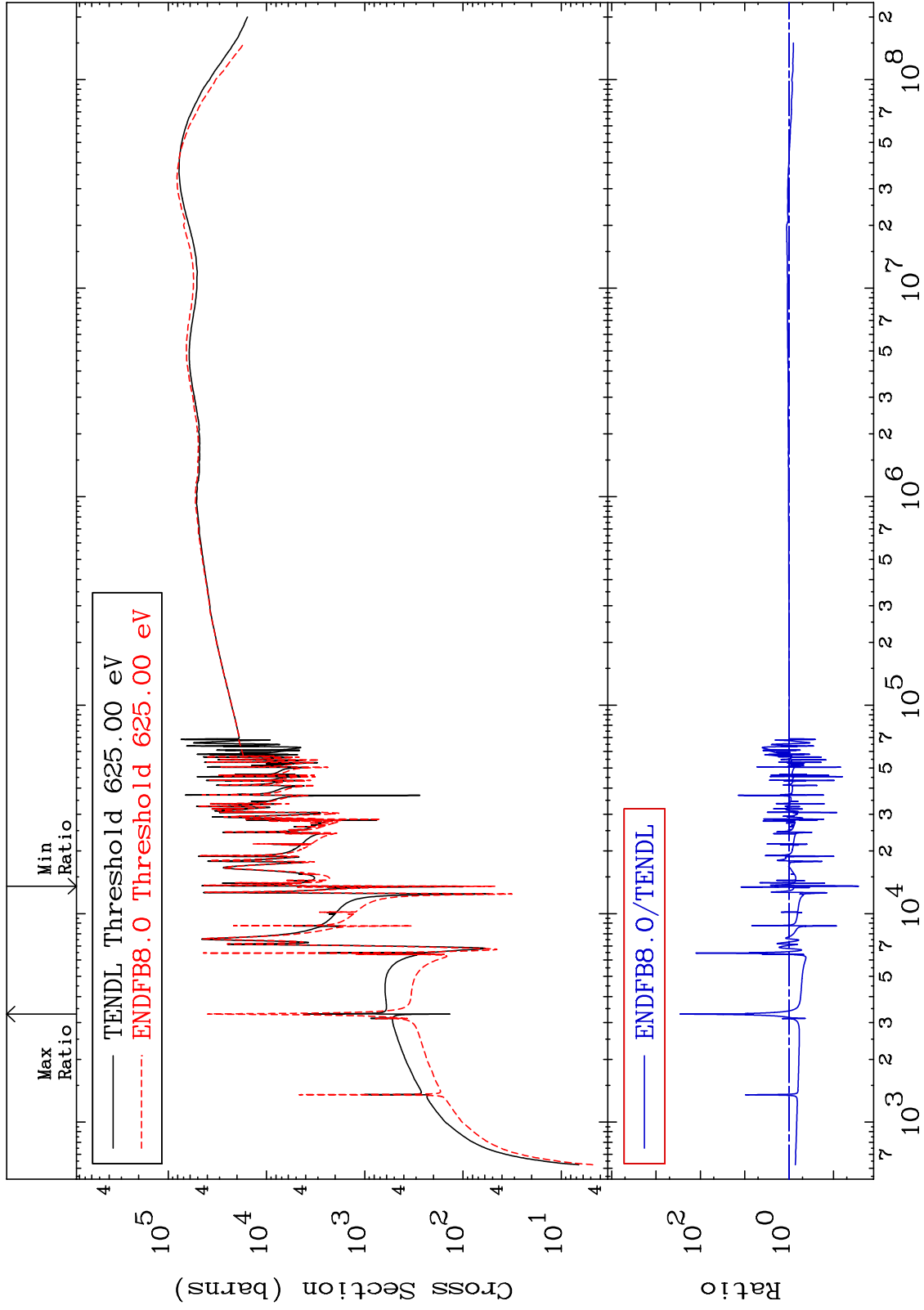
60

28-Ni-61

MAT 2834

Dpa elastic (mt2)
Cross Section

28-Ni-61
-97.26 To 9999. %



61

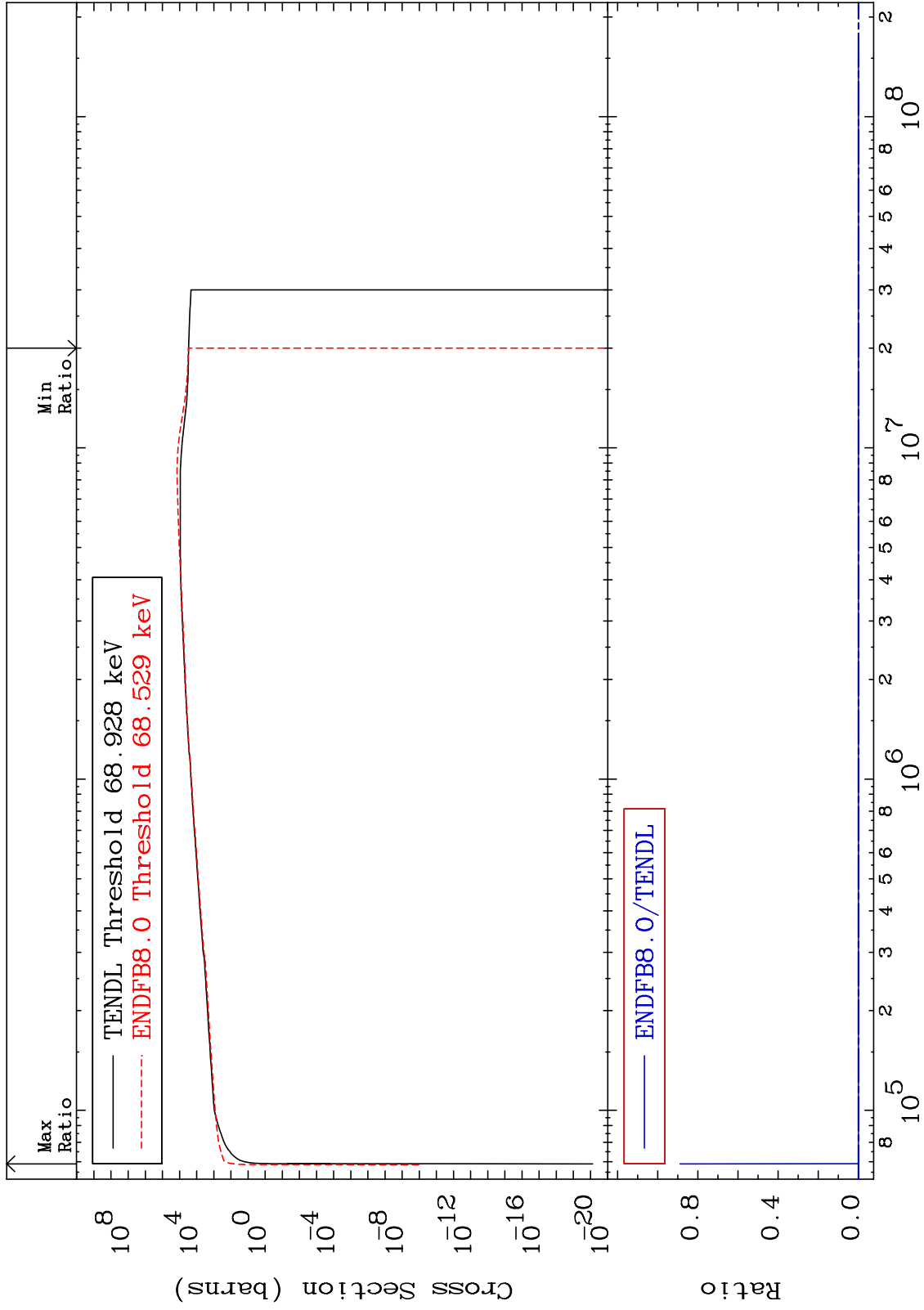
28-Ni-61

28-Ni-61

MAT 2834

Dpa inelastic (mt51-91)
Cross Section

28-Ni-61
-100.0 To 9999. %



62

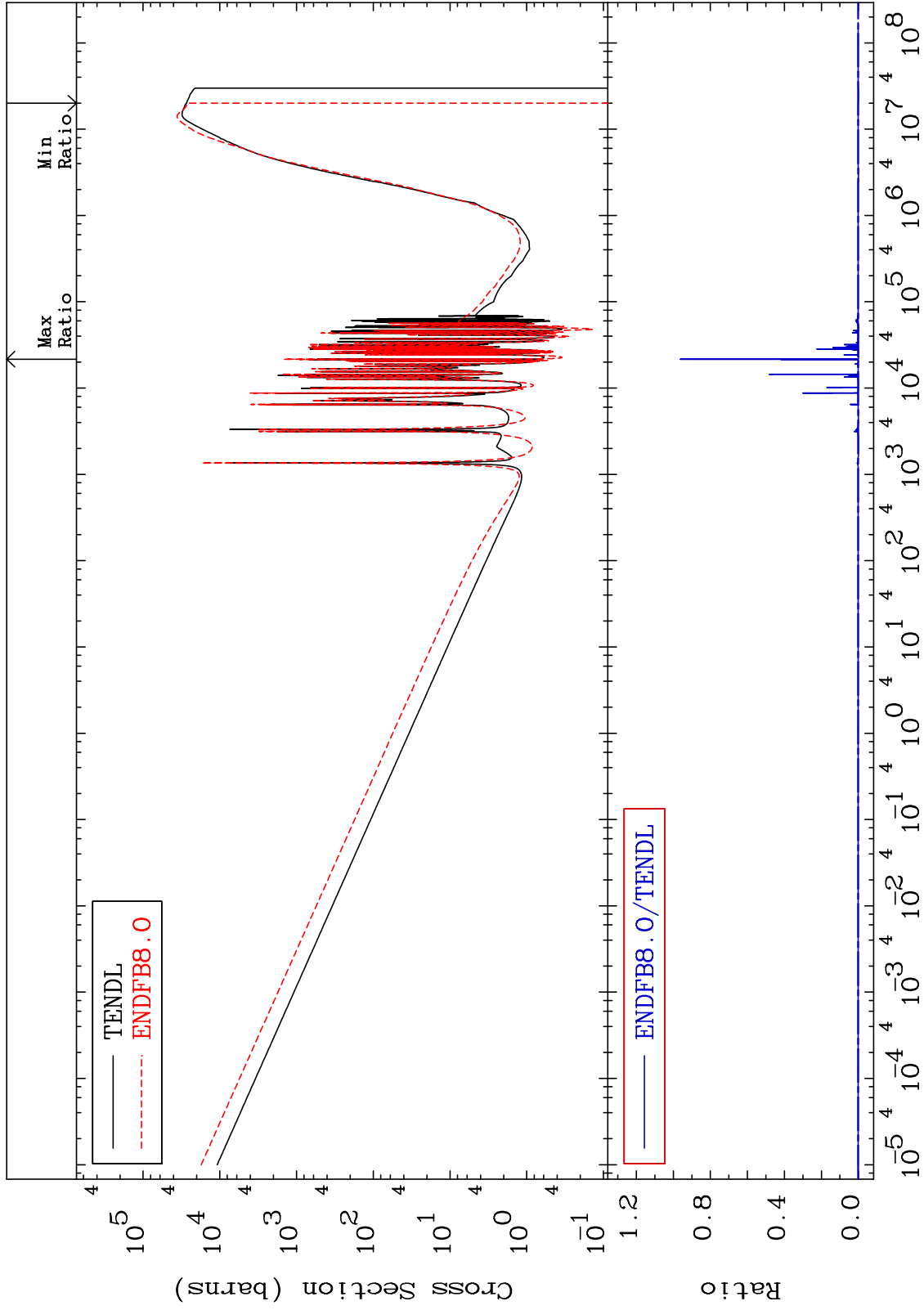
Incident Energy (eV)

28-Ni-61

MAT 2834

Dpa disappearance (mt102 -120)
Cross Section

28-Ni-61
-100.0 To 9999. %



63

Incident Energy (eV)

28-Ni-61