

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

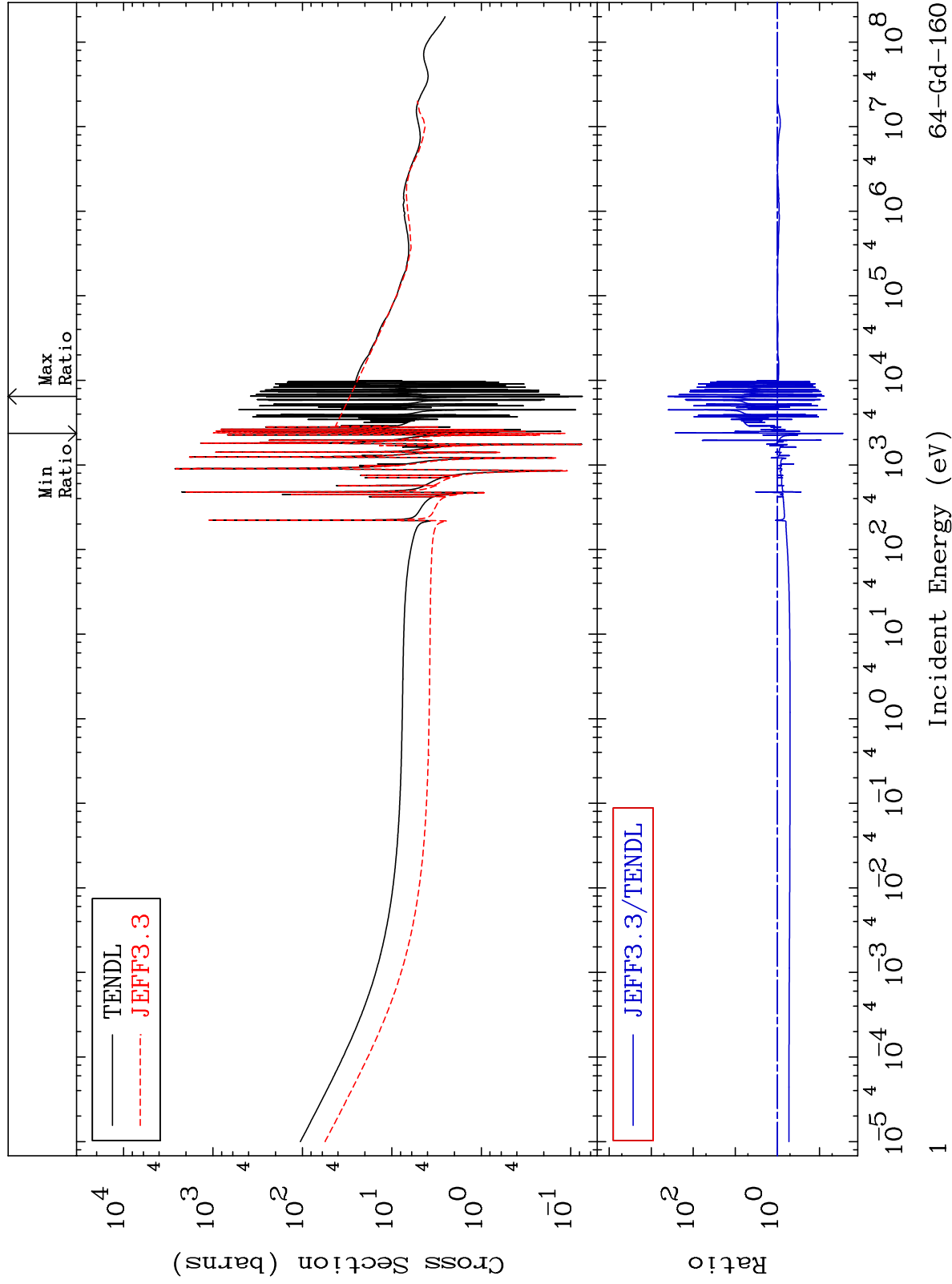
MAT 6449

Total

64-Gd-160

Cross Section

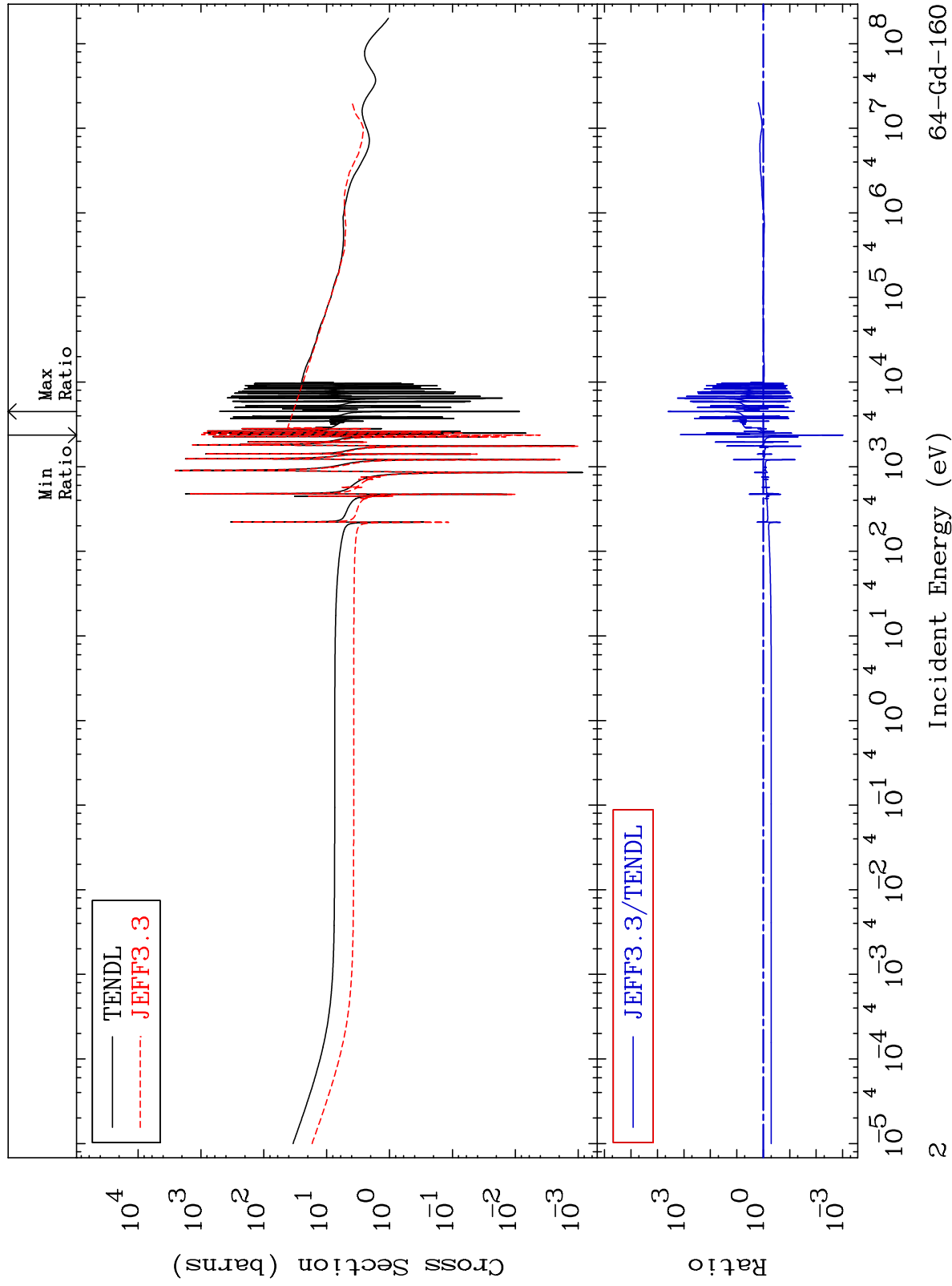
-97.23 To 9999. %



MAT 6449

Elastic
Cross Section

64-Gd-160
-99.90 To 9999. %



64-Gd-160

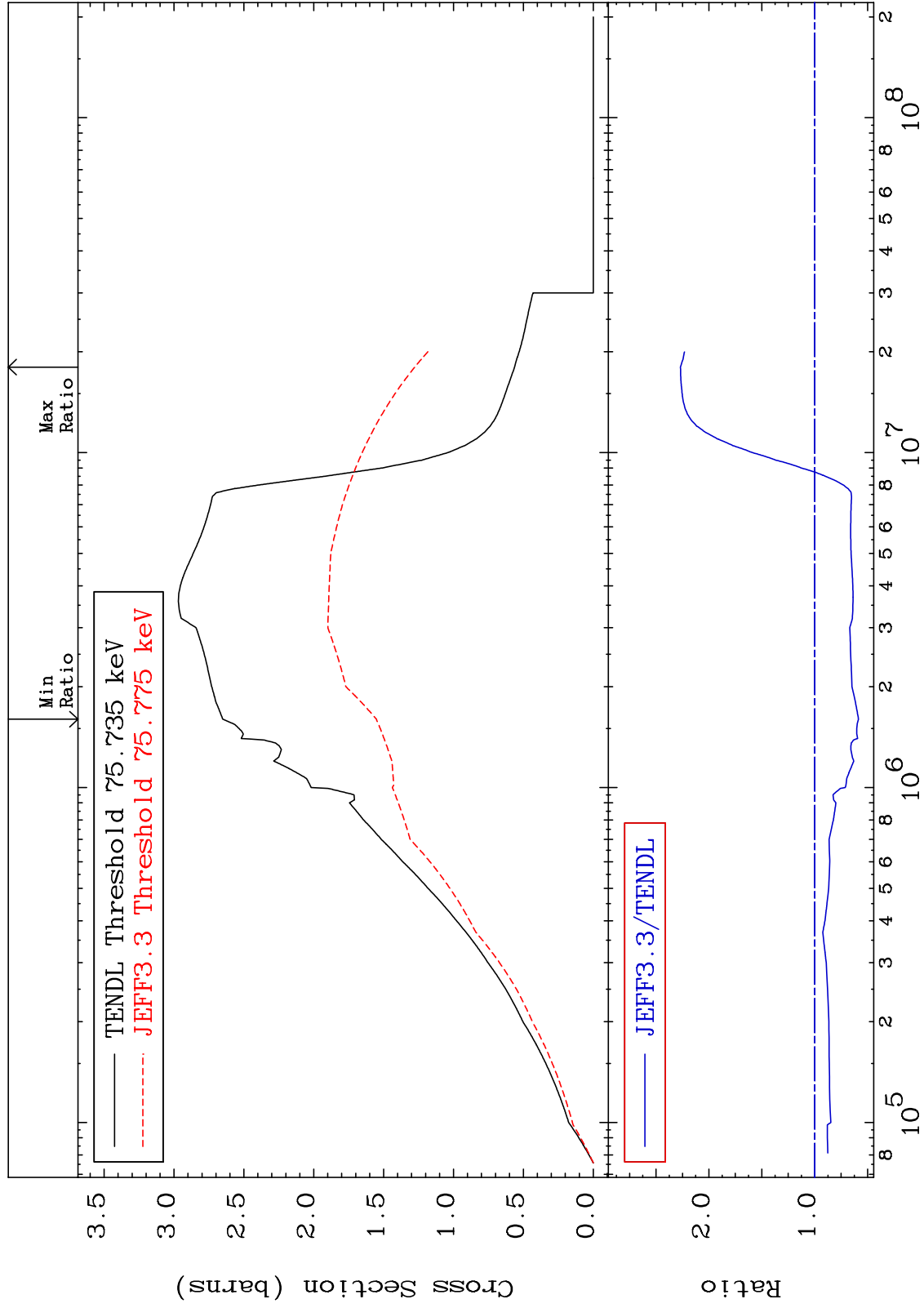
Incident Energy (eV)

MAT 6449

Inelastic
Cross Section

64-Gd-160

-41.45 To 126.9 %



3

Incident Energy (eV)

64-Gd-160

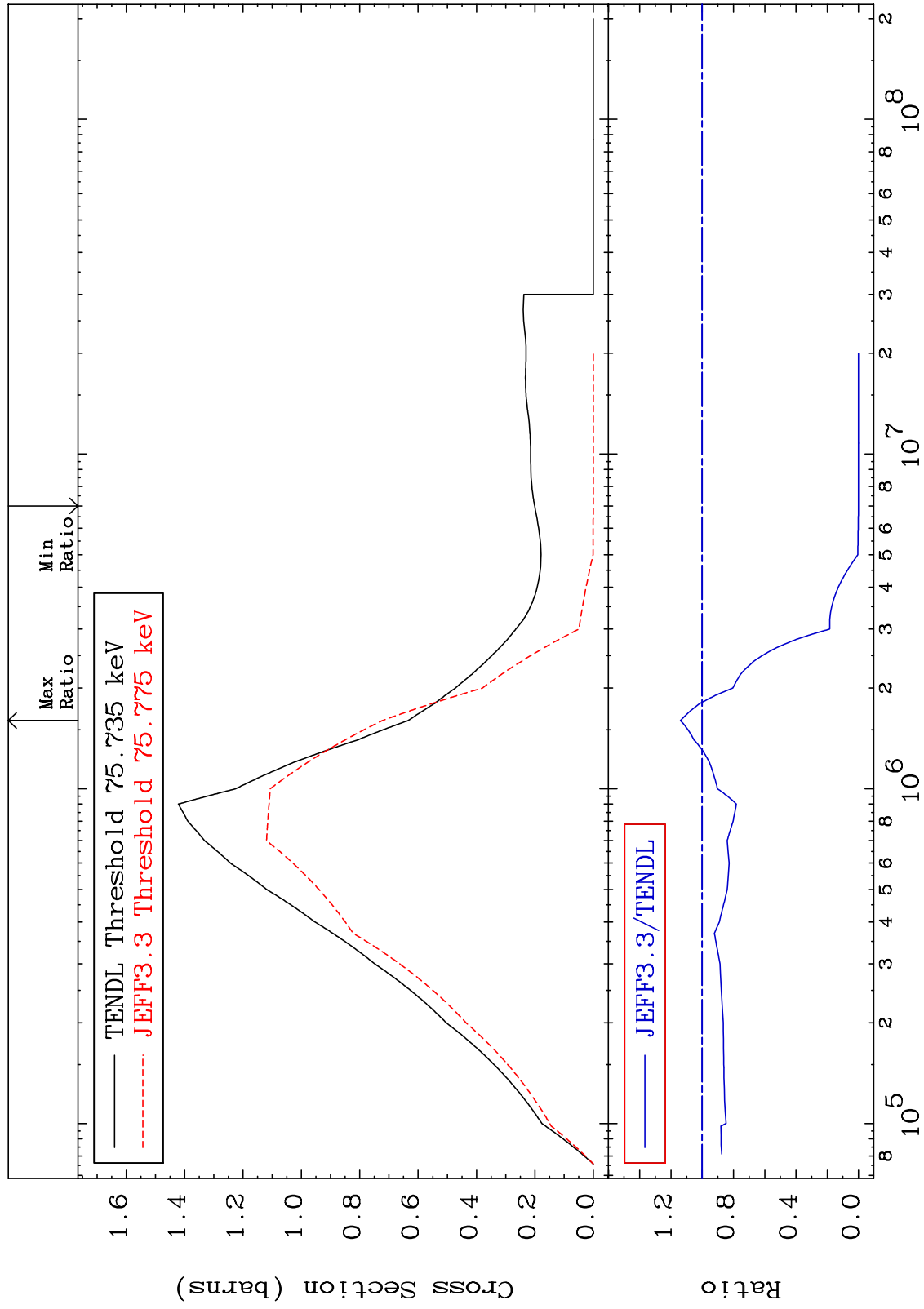
MAT 6449

MT= 51 (n, n') Level

64-Gd-160

-100.0 To 13.94 %

Cross Section

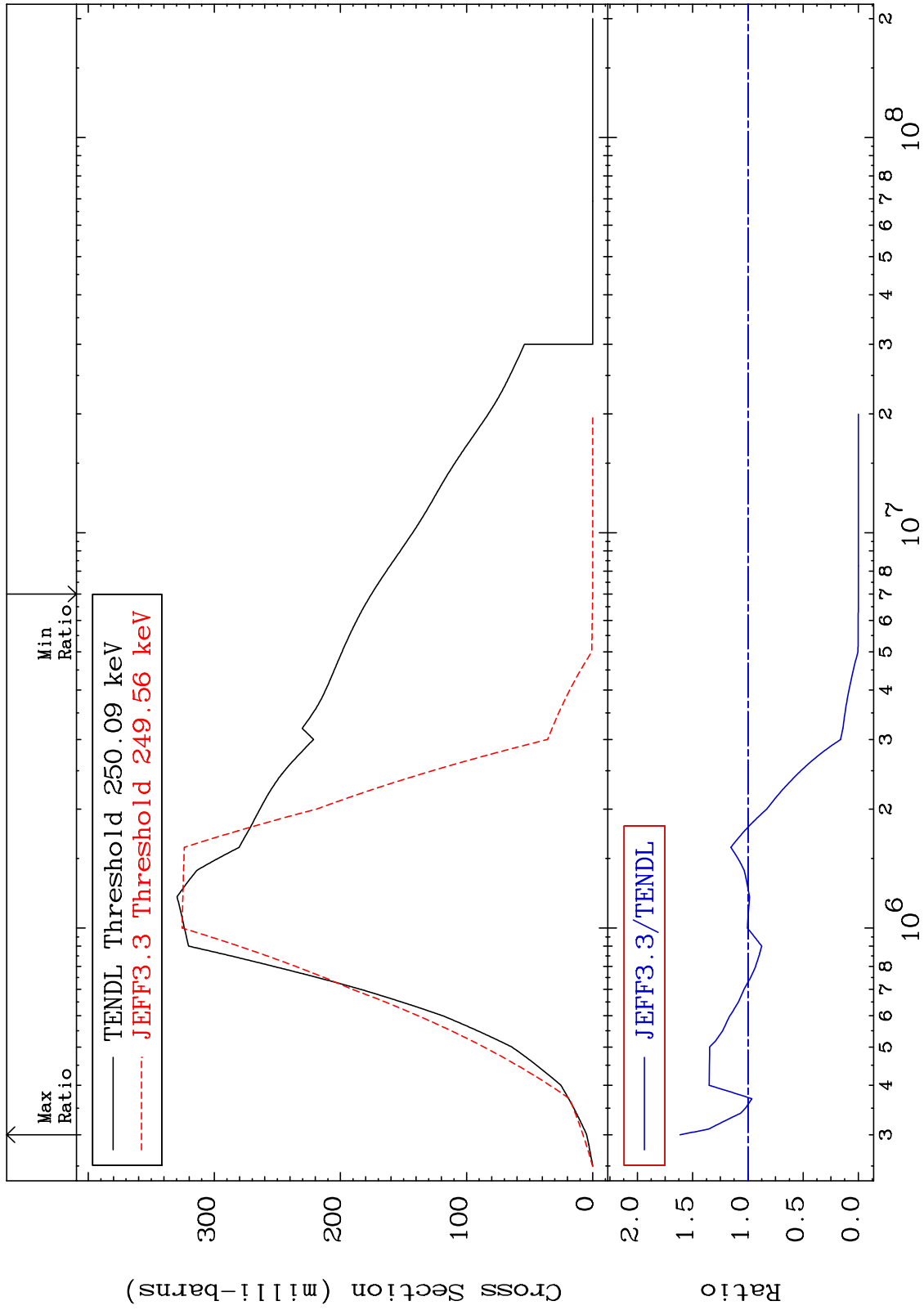


4

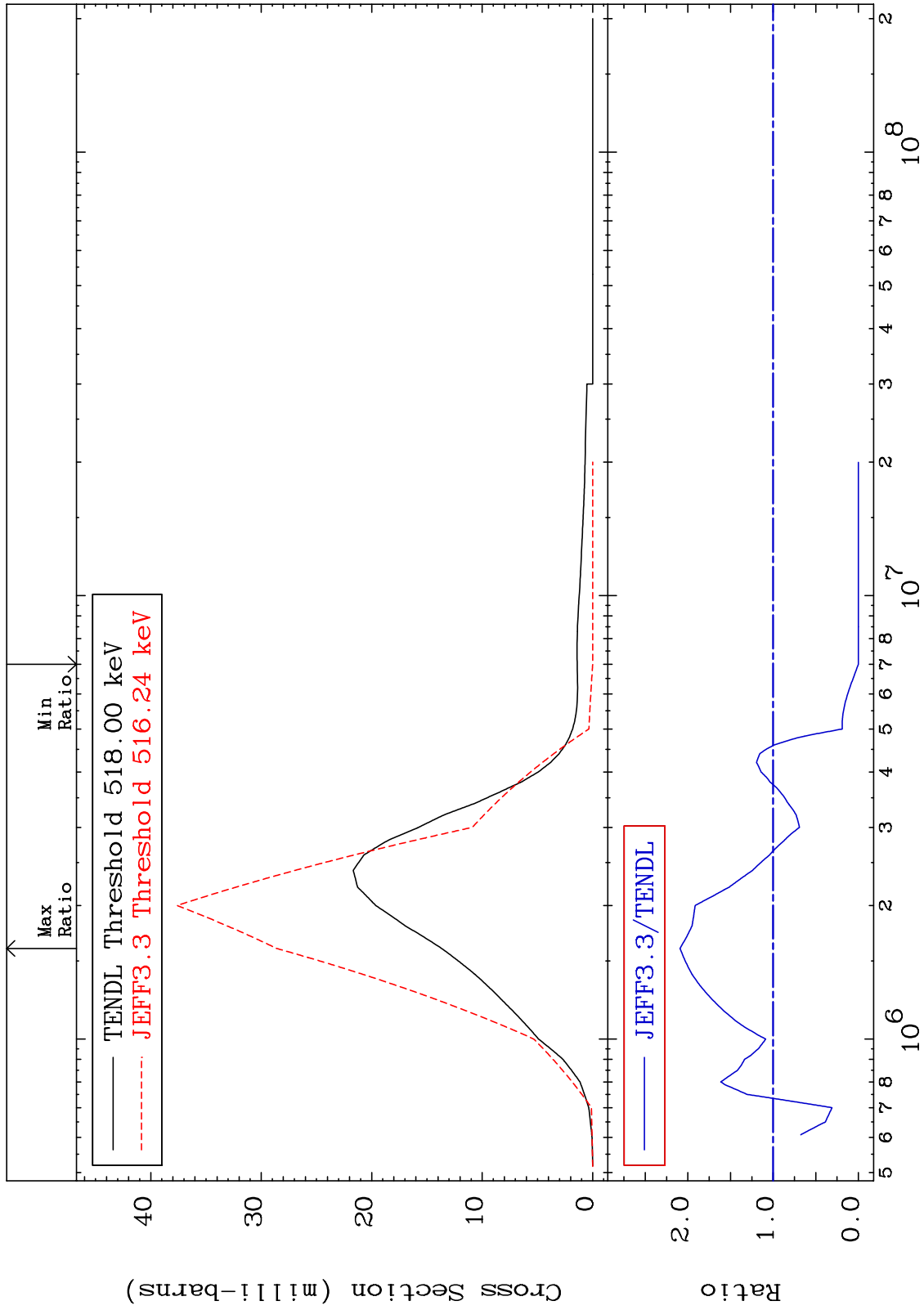
Incident Energy (eV)

64-Gd-160

MAT 6449 MT= 52 (n,n') Level 64-Gd-160
 Cross Section -100.0 To 61.48 %



MAT 6449 MT= 53 (n,n') Level 64-Gd-160
 Cross Section -100.0 To 109.2 %

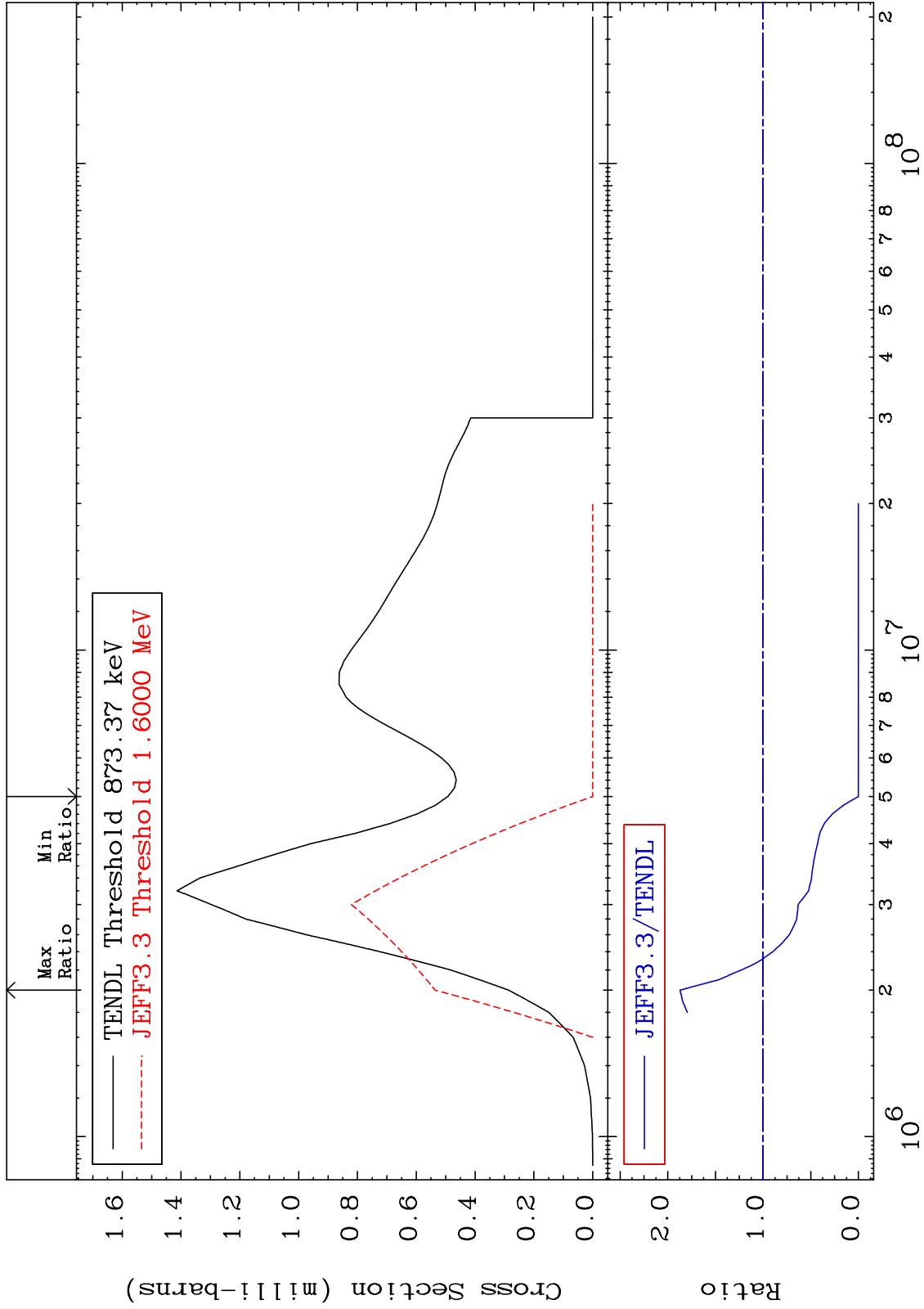


64-Gd-160

MAT 6449

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

64-Gd-160
-100.0 To 87.18 %



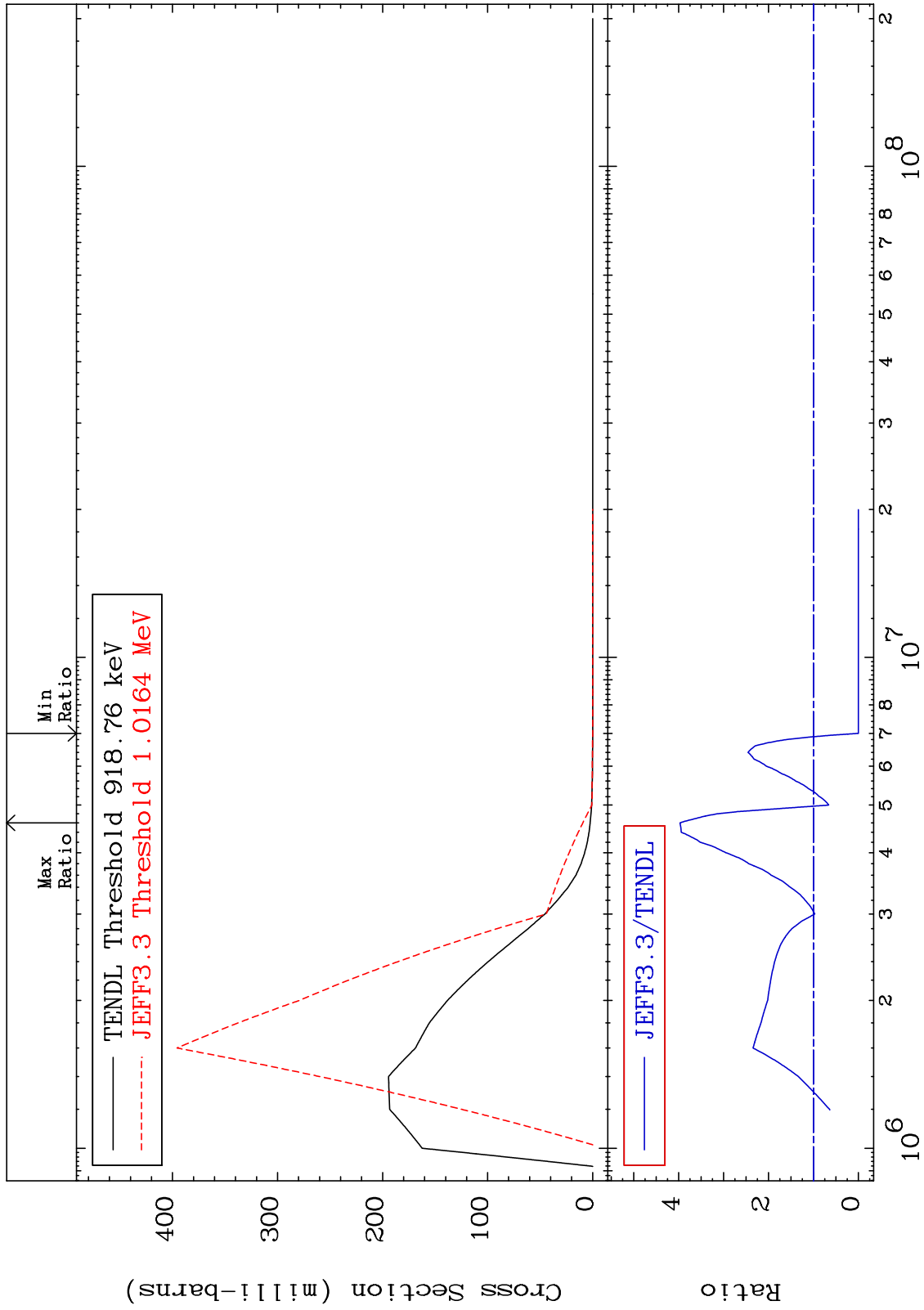
Incident Energy (eV)

64-Gd-160

MAT 6449

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

64-Gd-160
-100.0 To 297.1 %



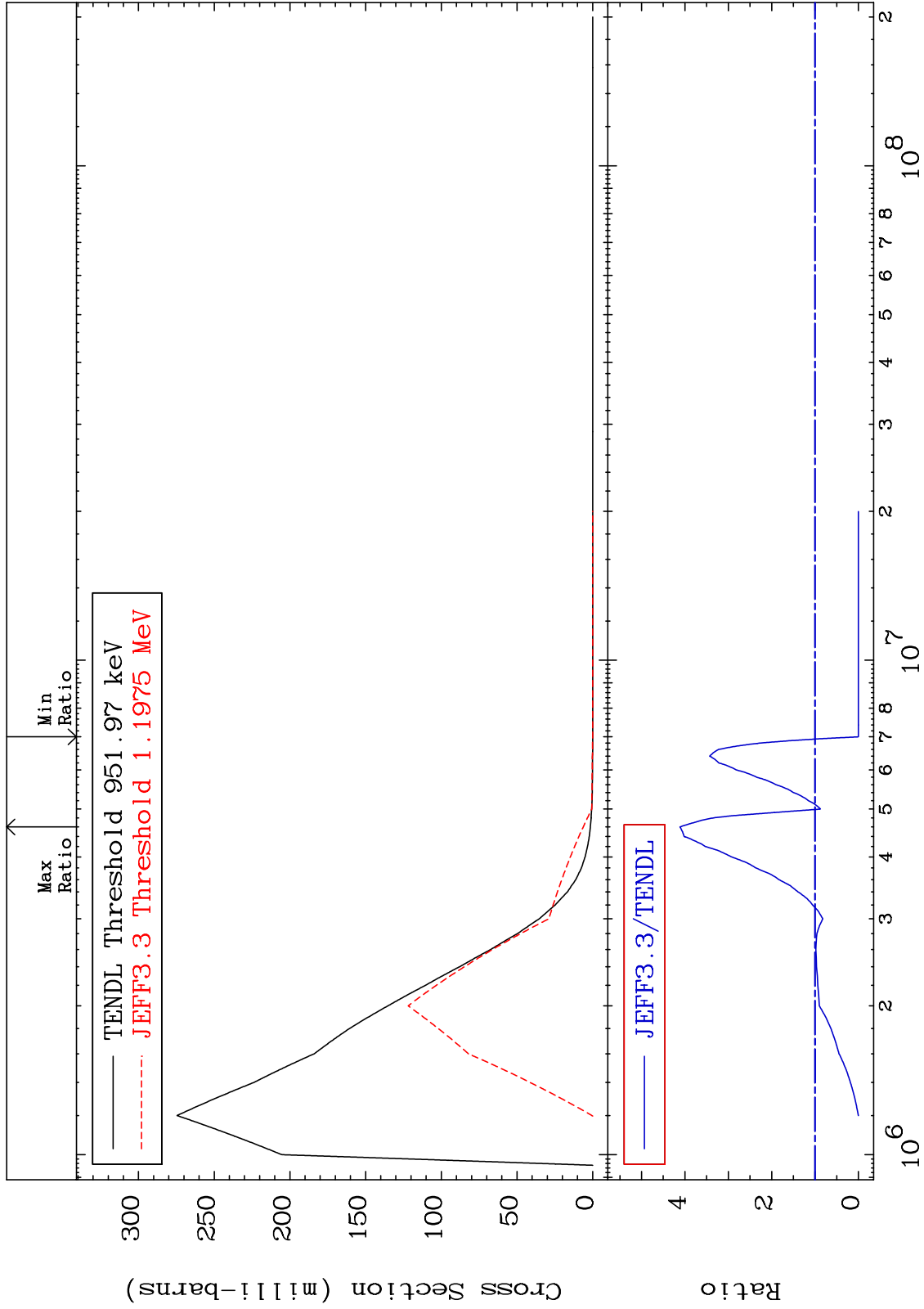
Incident Energy (eV)

64-Gd-160

MAT 6449

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

64-Gd-160
-100.0 To 311.3 %

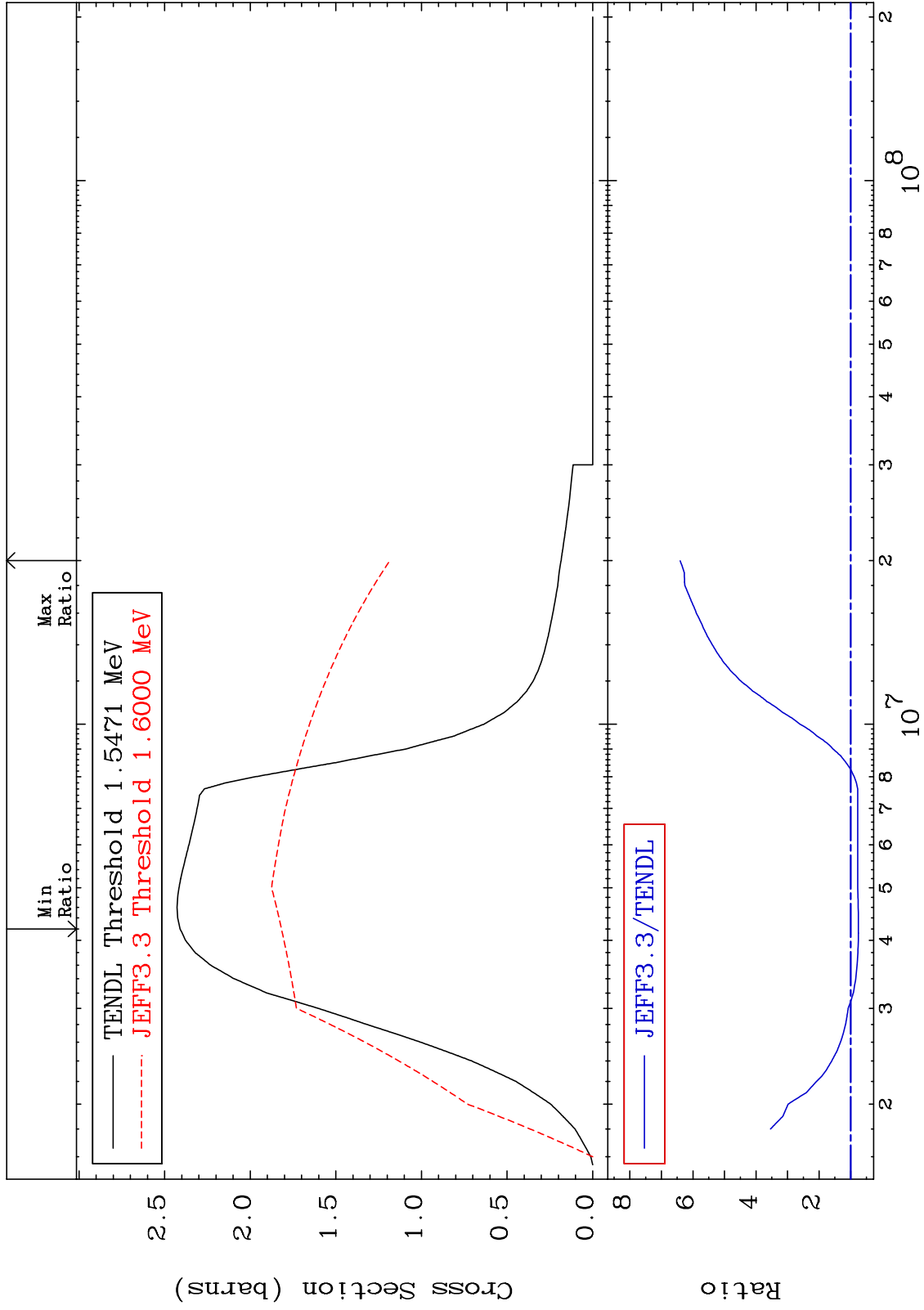


64-Gd-160

MAT 6449

(n, n') Continuum
Cross Section

64-Gd-160
-24.57 To 541.0 %



10

Incident Energy (eV)

64-Gd-160

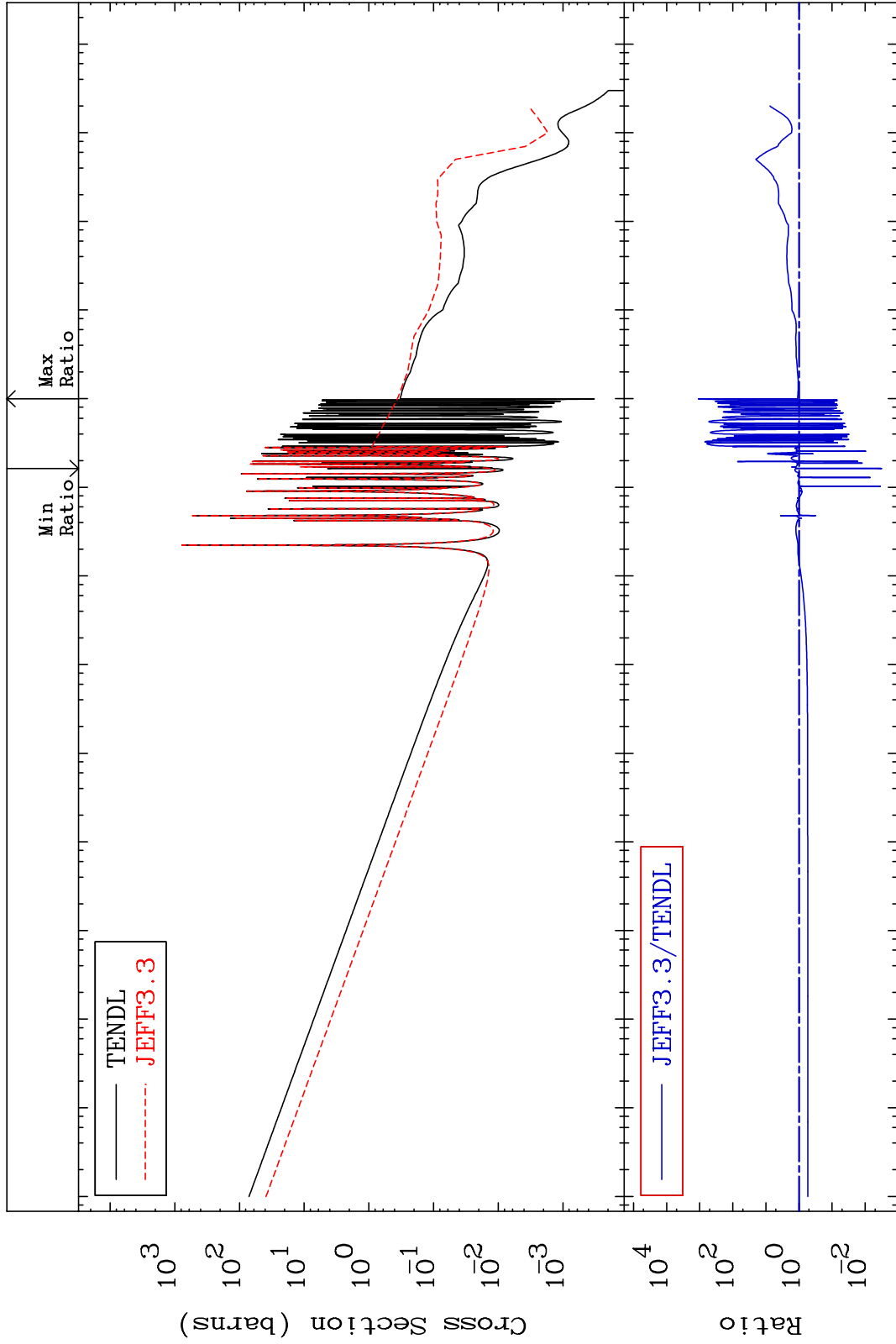
MAT 6449

(n, γ)

64-Gd-160

Cross Section

-99.68 To 9999. %



Incident Energy (eV) 64-Gd-160

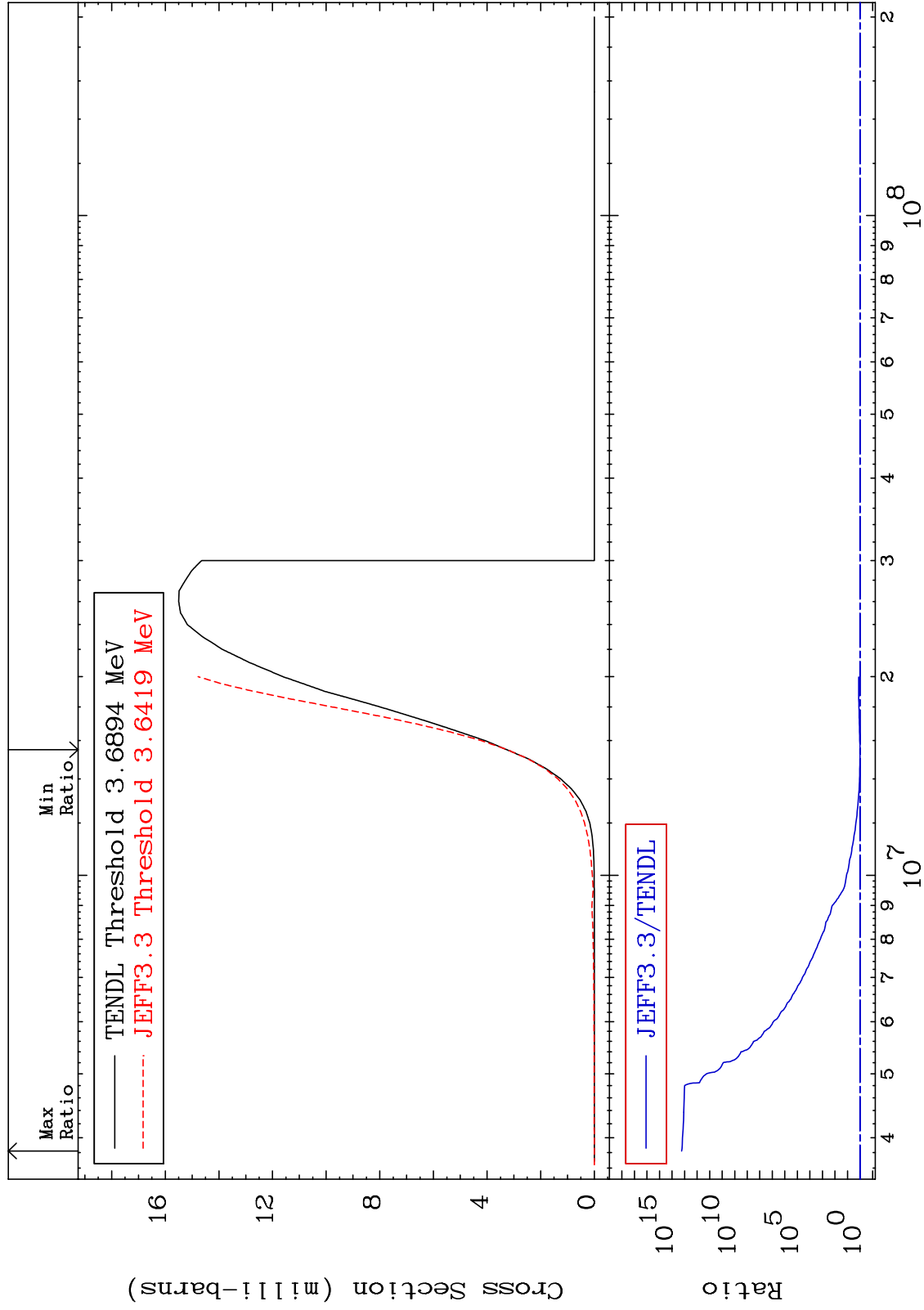
MAT 6449

(n,p)

64-Gd-160

Cross Section

-0.585 To 9999. %



12

Incident Energy (eV)

64-Gd-160

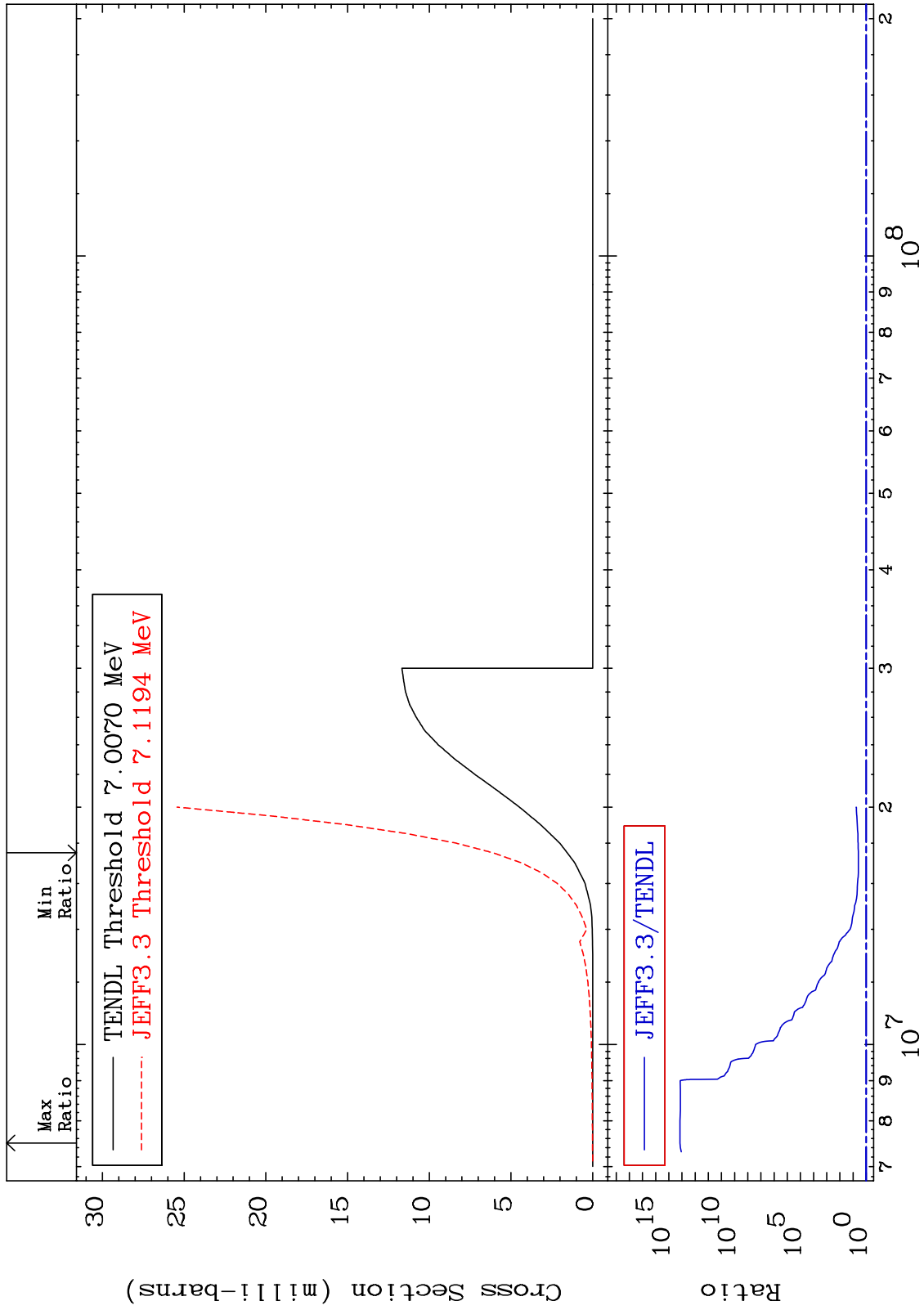
MAT 6449

(n, d)

64-Gd-160

290.9 To 9999. %

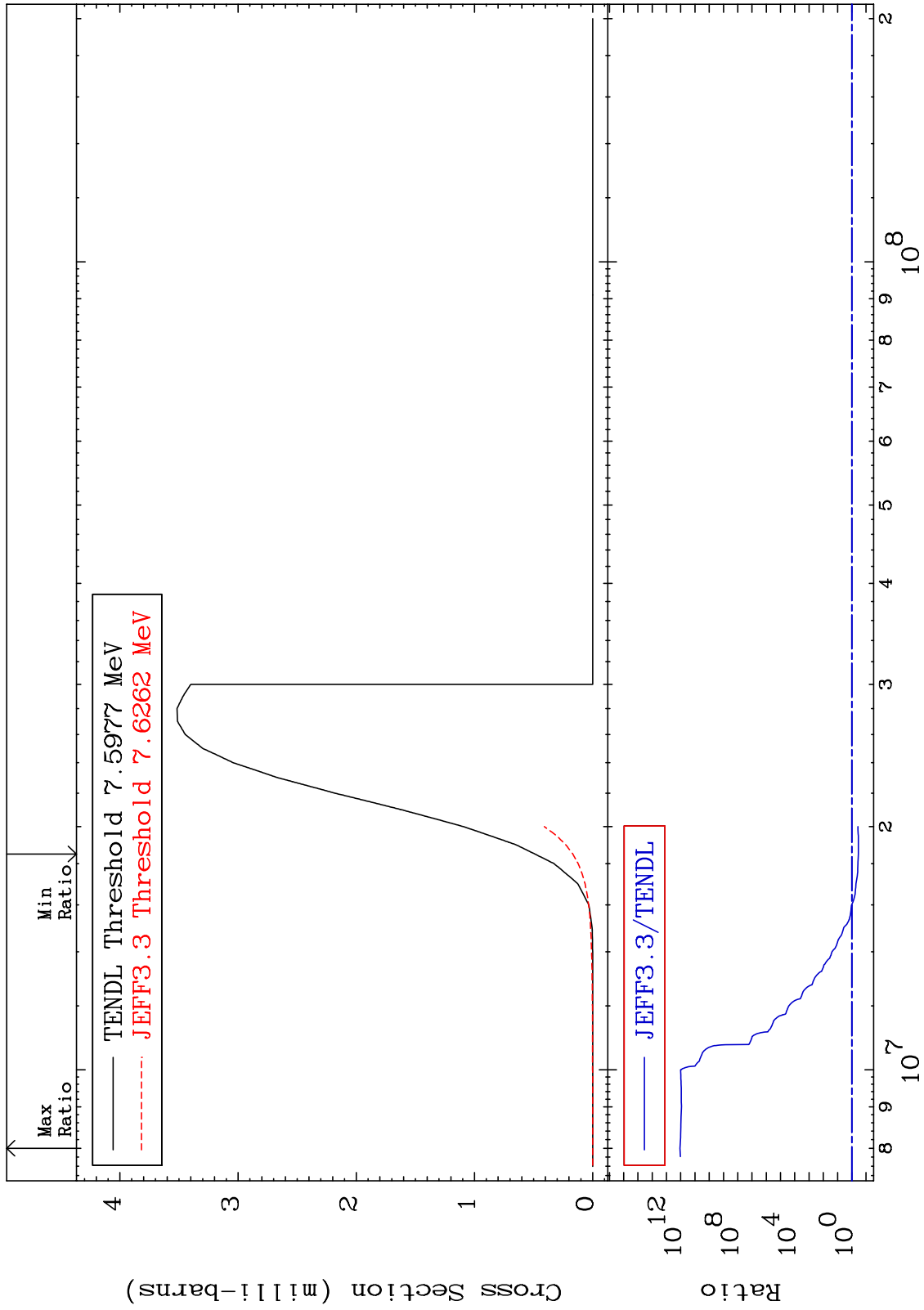
Cross Section



64-Gd-160

Incident Energy (eV)

MAT 6449 (n, t) Cross Section 64-Gd-160 -65.60 To 9999. %



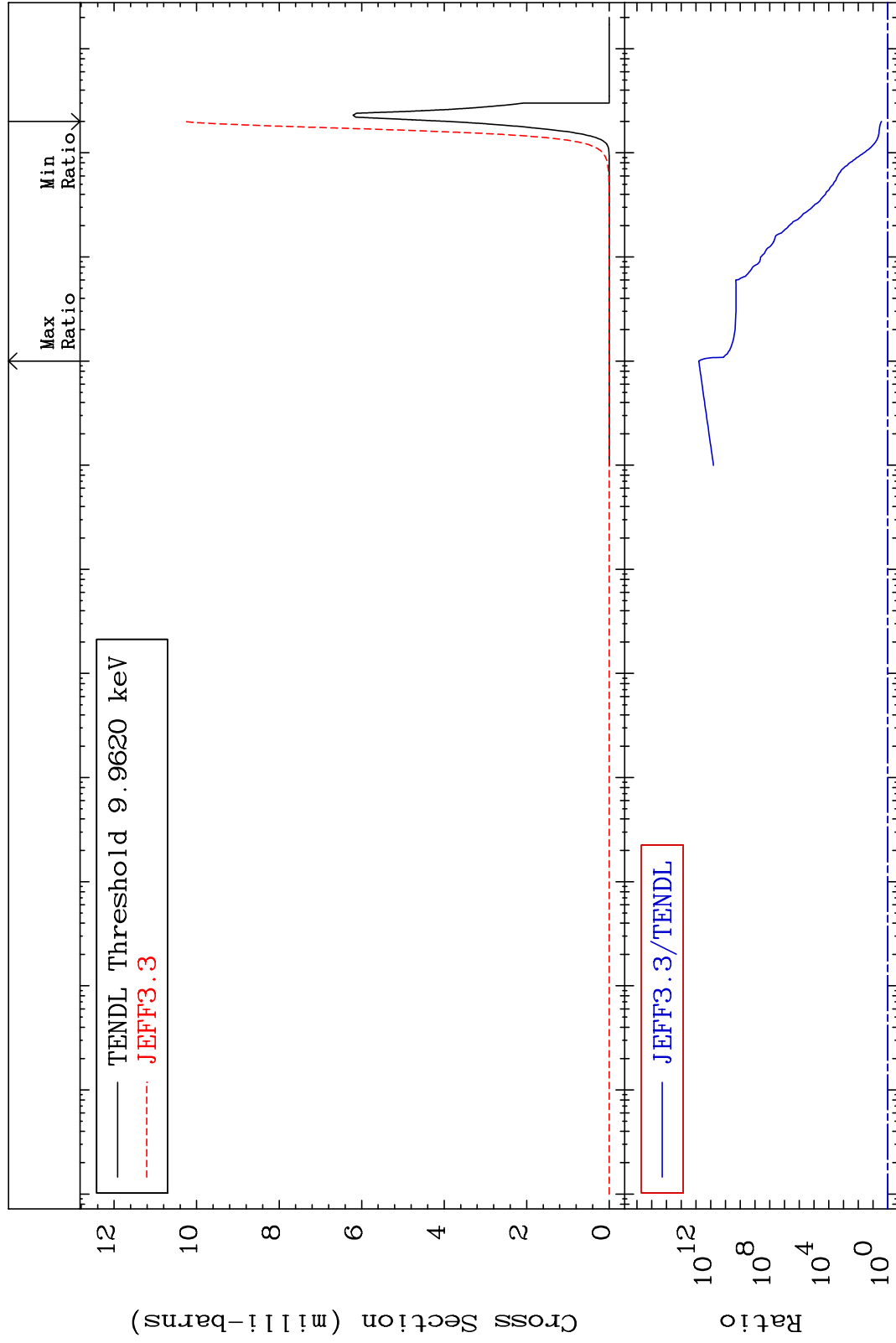
MAT 6449

(n, α)

64-Gd-160

Cross Section

165.0 To 9999. %



10⁻³ 10⁻² 10⁻¹ 10⁰ 10¹ 10² 10³ 10⁴ 10⁵ 10⁶ 10⁷ 10⁸

15

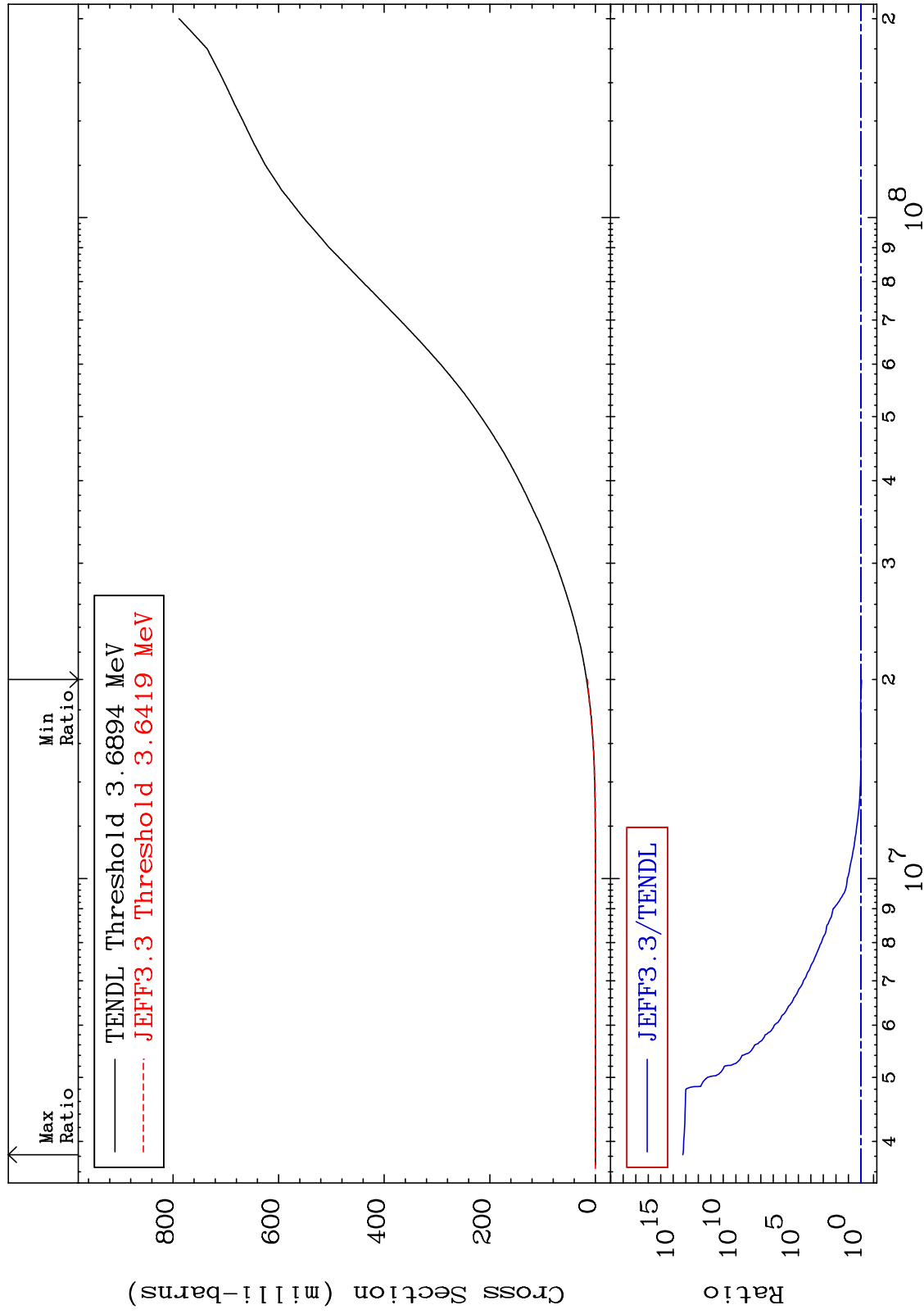
Incident Energy (eV)

64-Gd-160

MAT 6449

Hydrogen Production
Cross Section

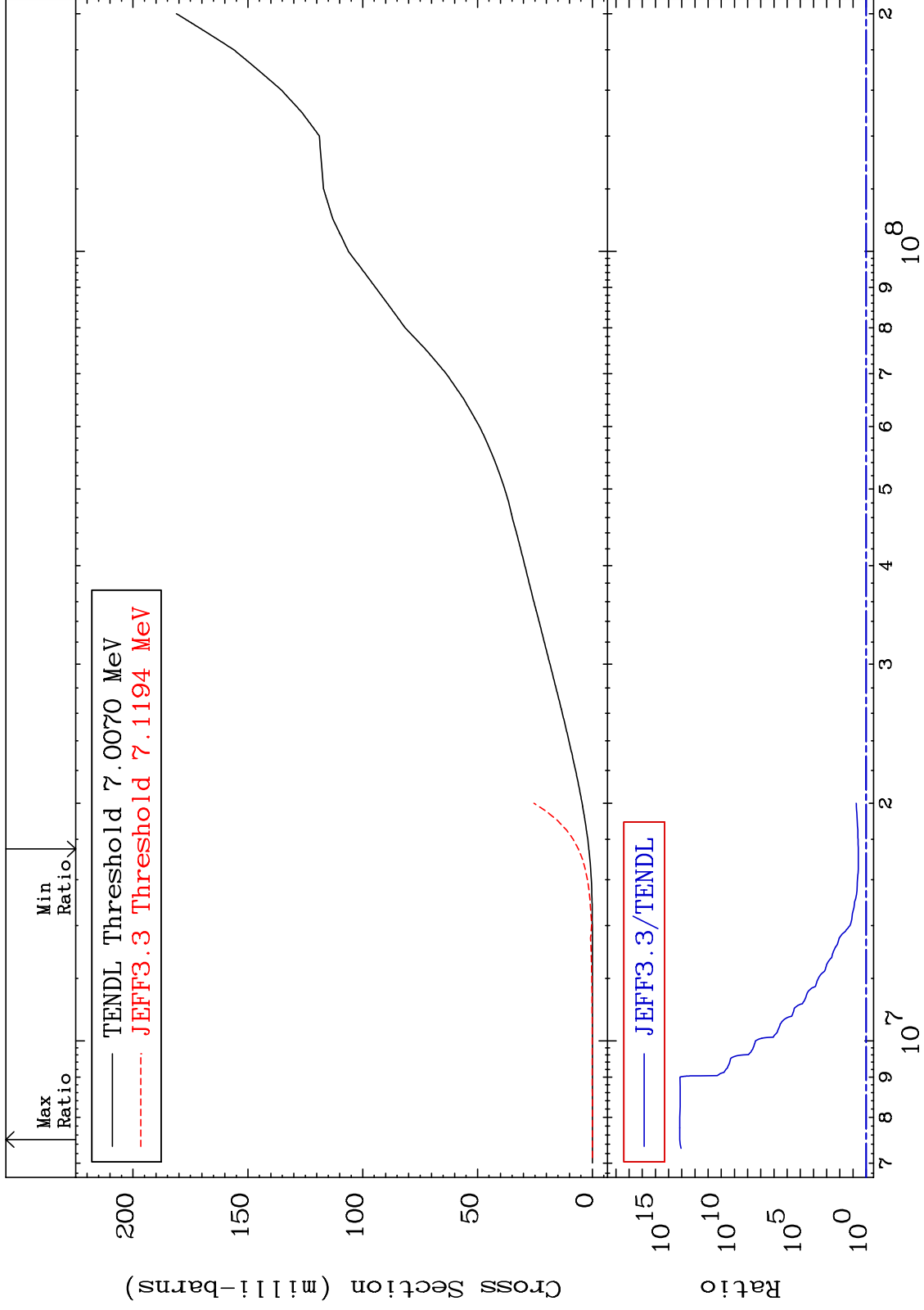
64-Gd-160
-11.25 To 9999. %



MAT 6449

Deuterium Production
Cross Section

64-Gd-160
290.9 To 9999. %



17

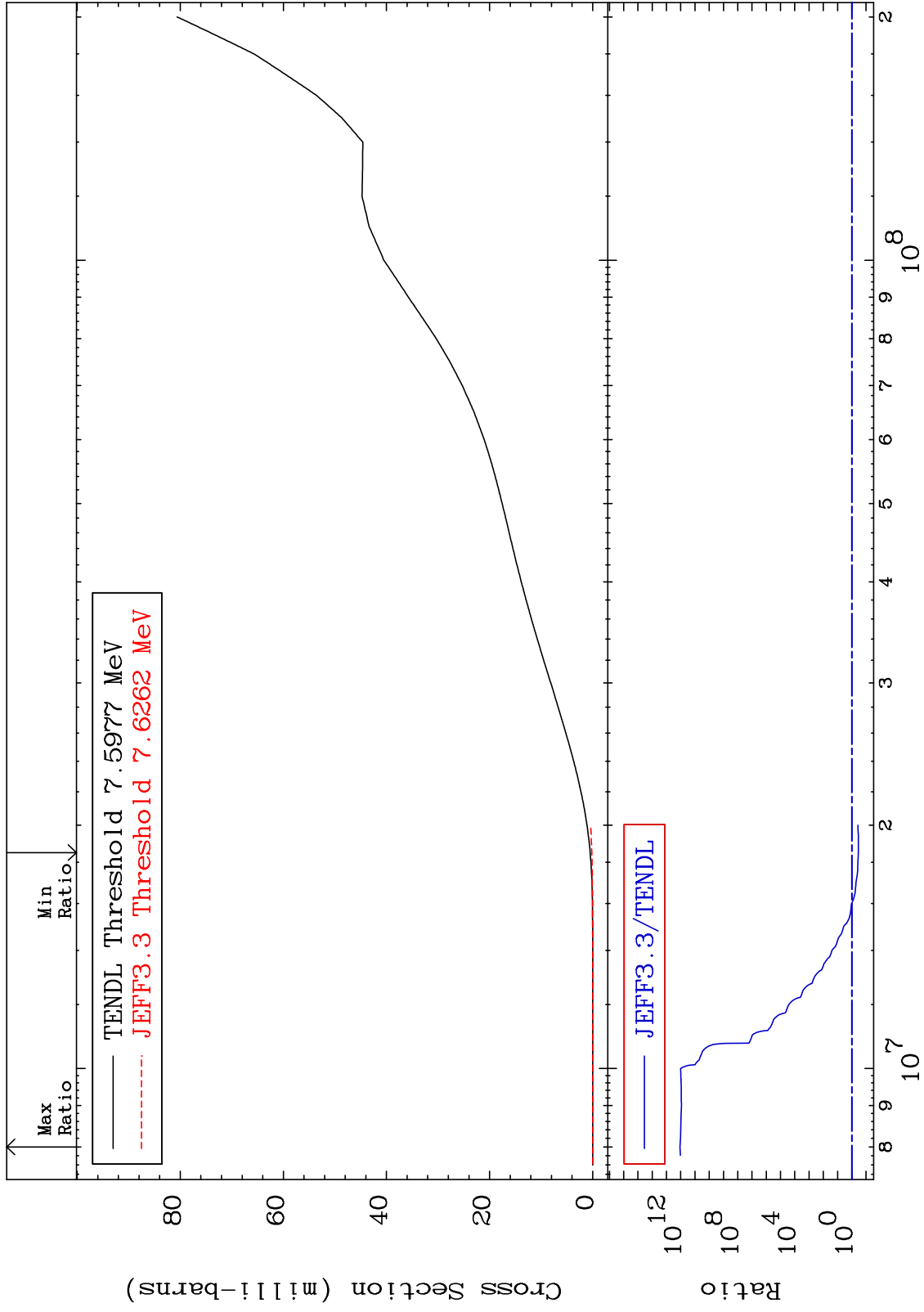
Incident Energy (eV)

64-Gd-160

MAT 6449

Tritium Production
Cross Section

64-Gd-160
-65.61 To 9999. %



18

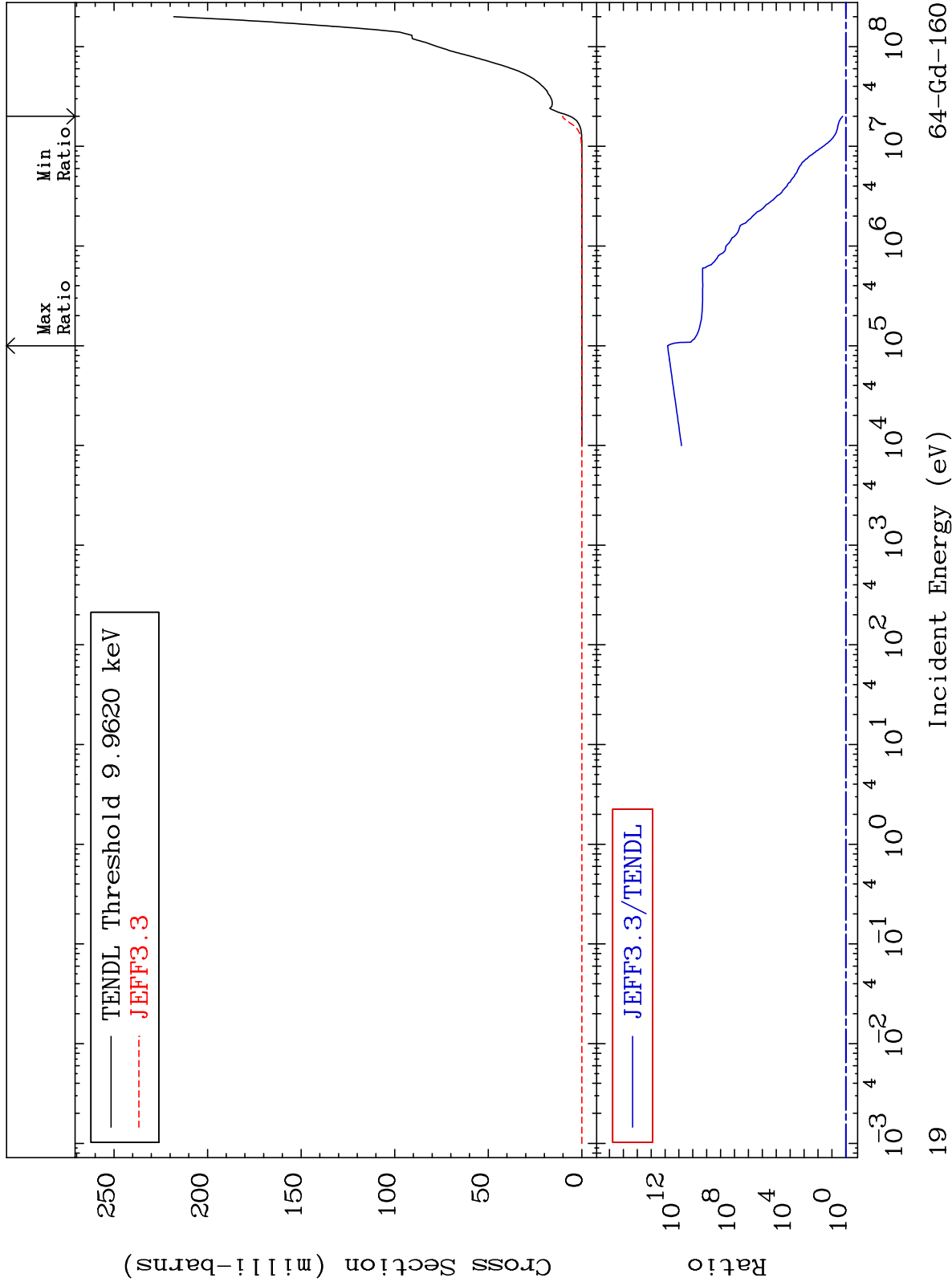
Incident Energy (eV)

64-Gd-160

MAT 6449

He-4 Production
Cross Section

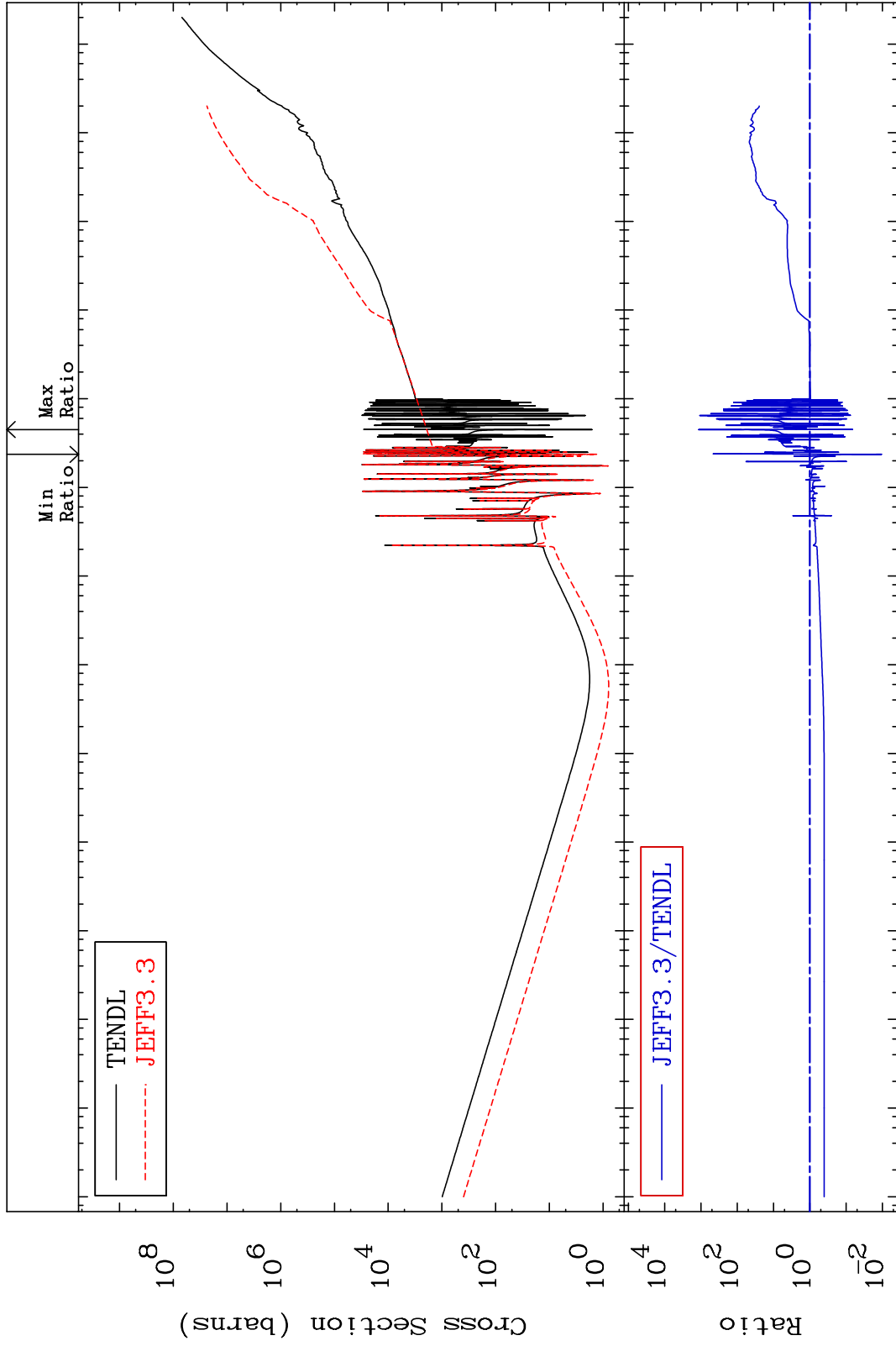
64-Gd-160
67.08 To 9999. %



MAT 6449

Kerma total (eV-barns)
Cross Section

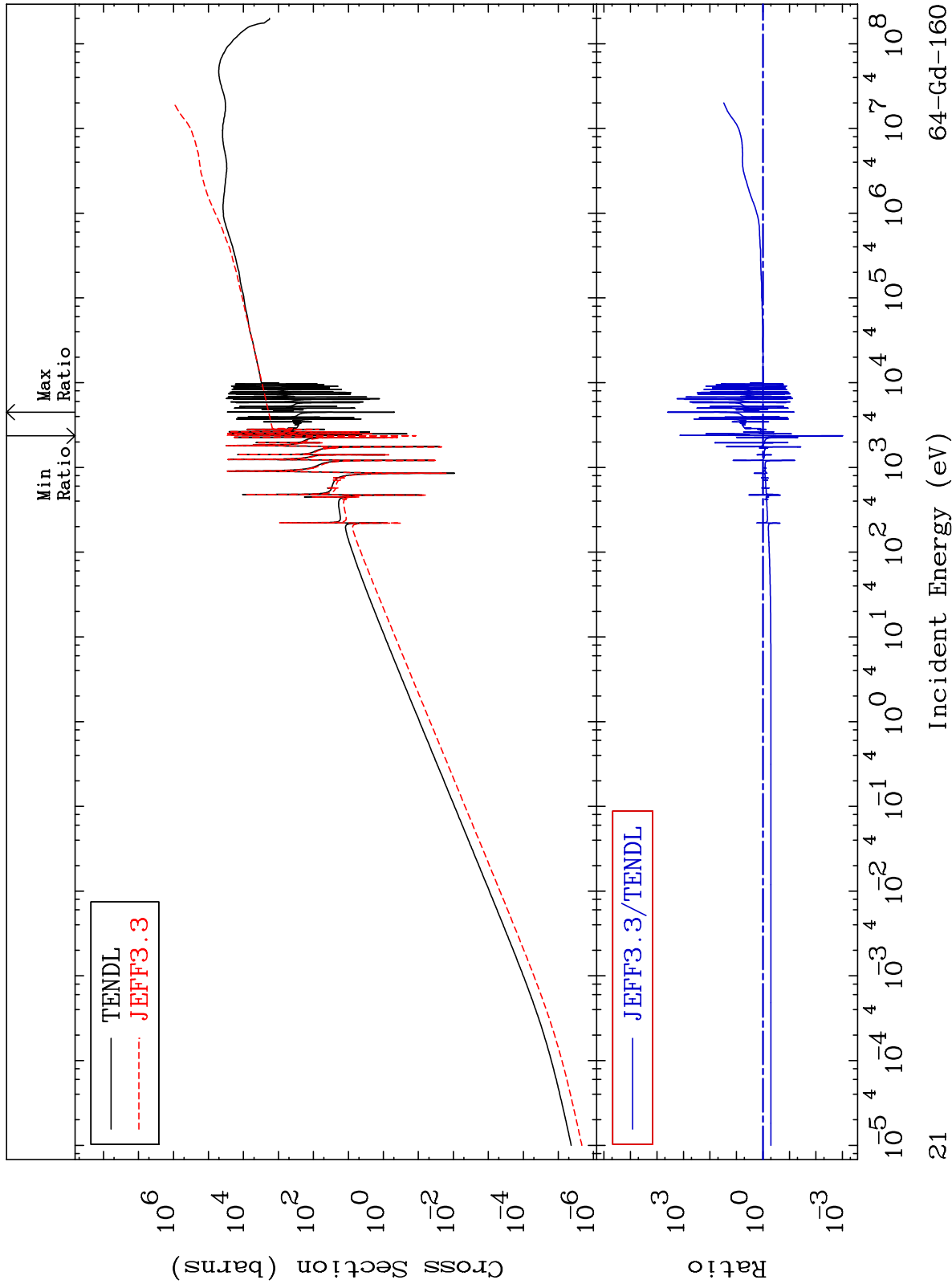
64-Gd-160
-98.95 To 9999. %



MAT 6449

Kerma elastic
Cross Section

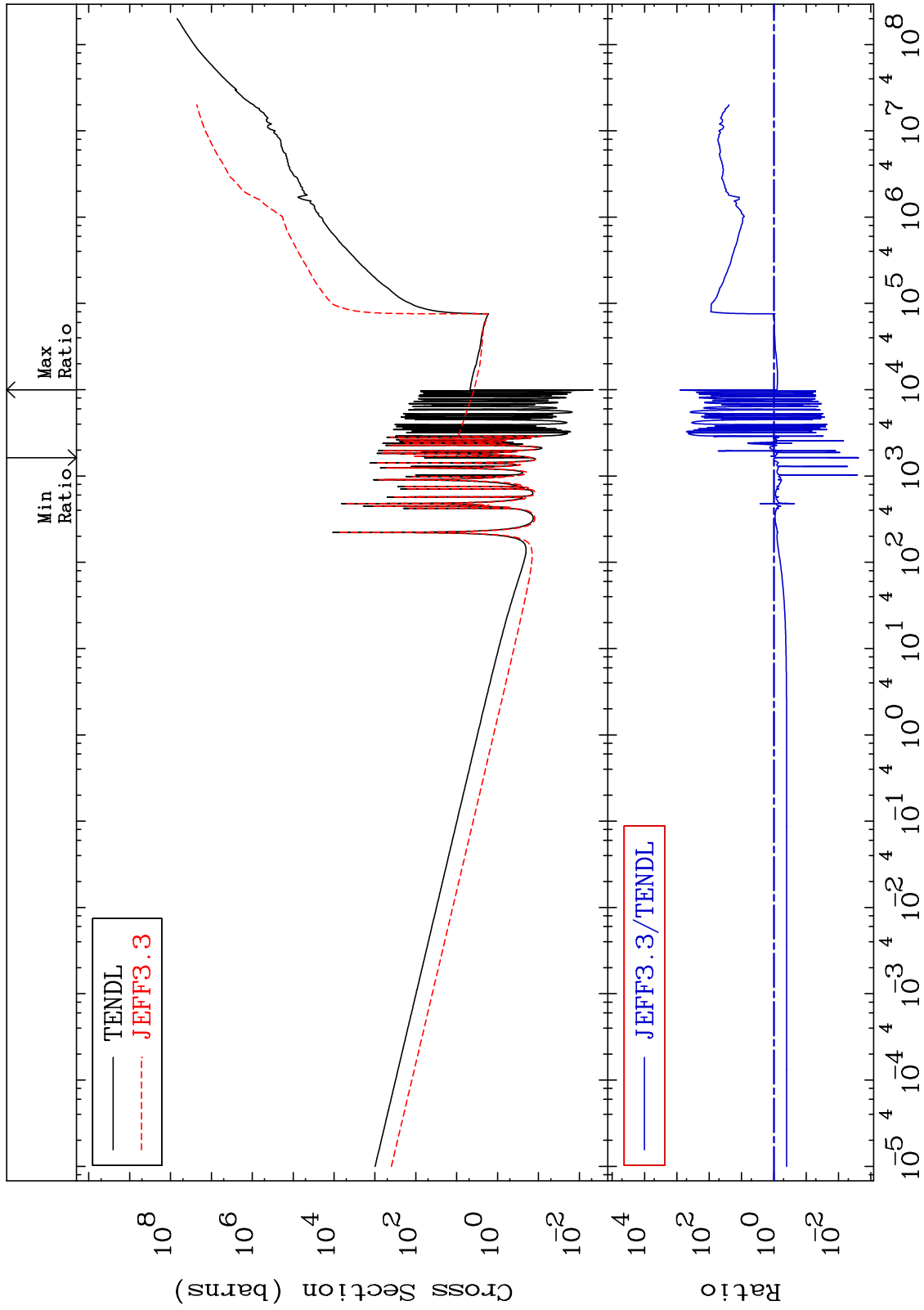
64-Gd-160
-99.90 To 9999. %



MAT 6449

Kerma non-elastic (all but mt2)
Cross Section

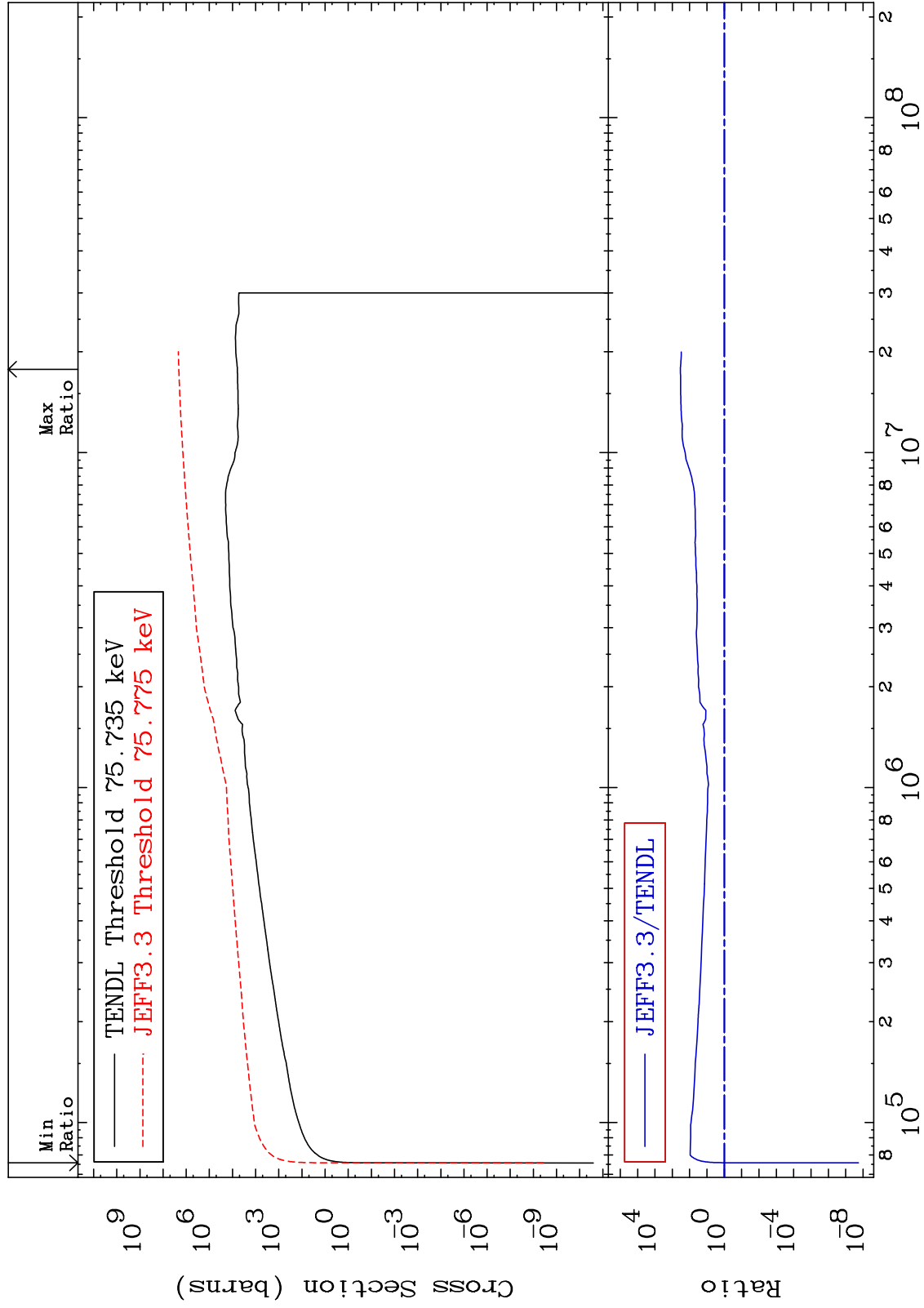
64-Gd-160
-99.76 To 9999. %



MAT 6449

Kerma inelastic (mt51-91)
Cross Section

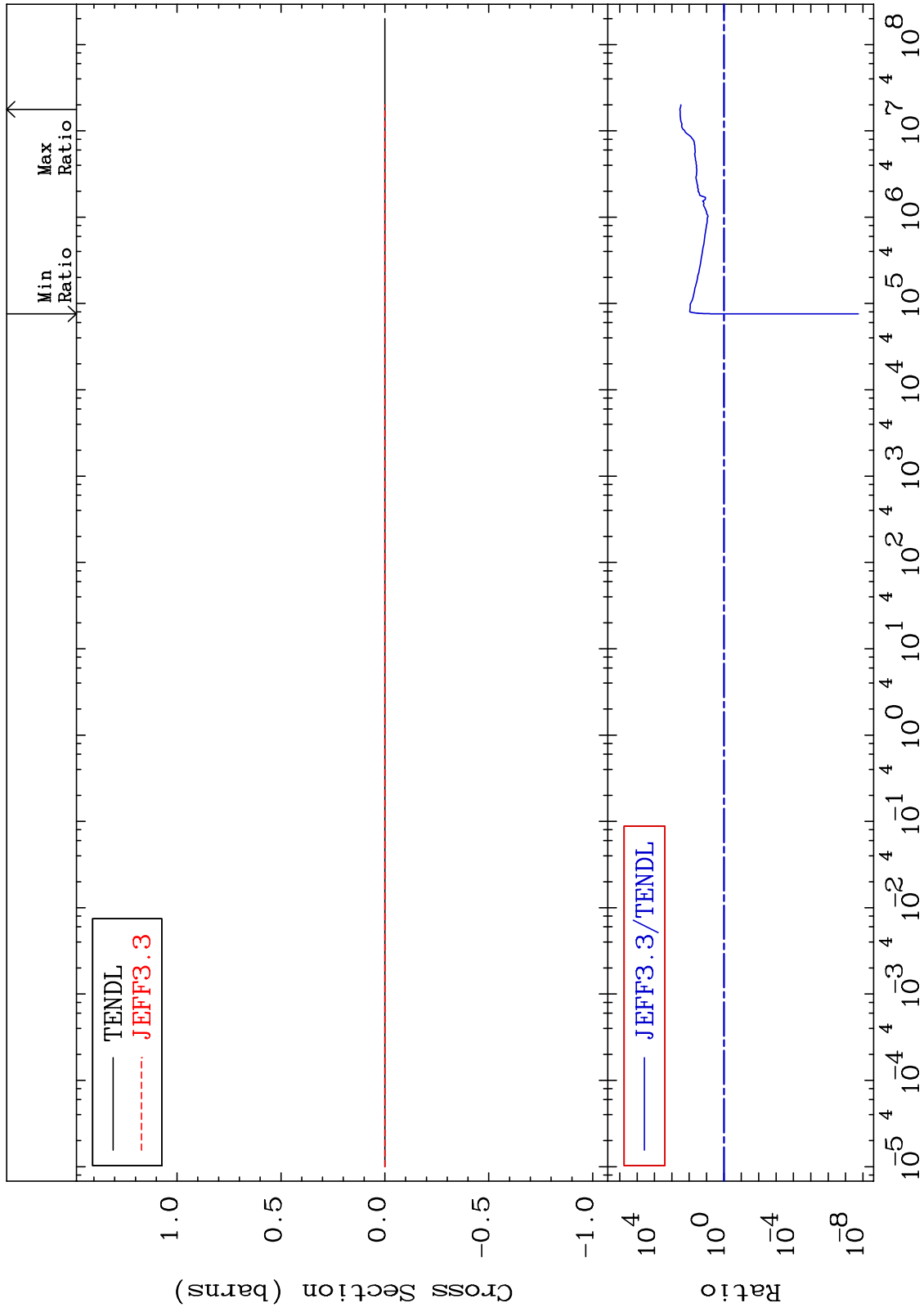
64-Gd-160
-100.0 To 9999. %



MAT 6449

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

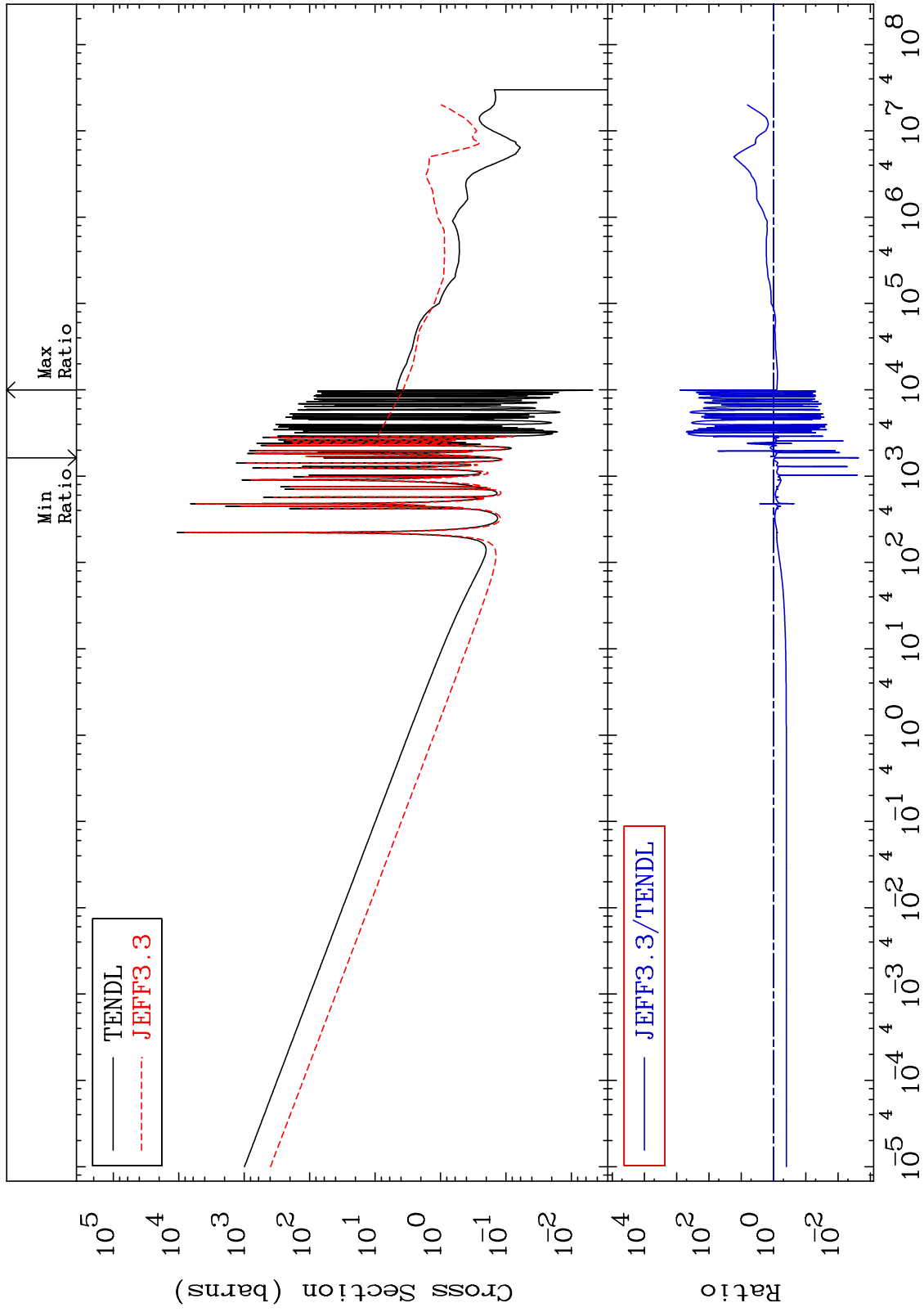
64-Gd-160
-100.0 To 9999. %



MAT 6449

Kerma capture (mt102)
Cross Section

64-Gd-160
-99.77 To 9999. %



25

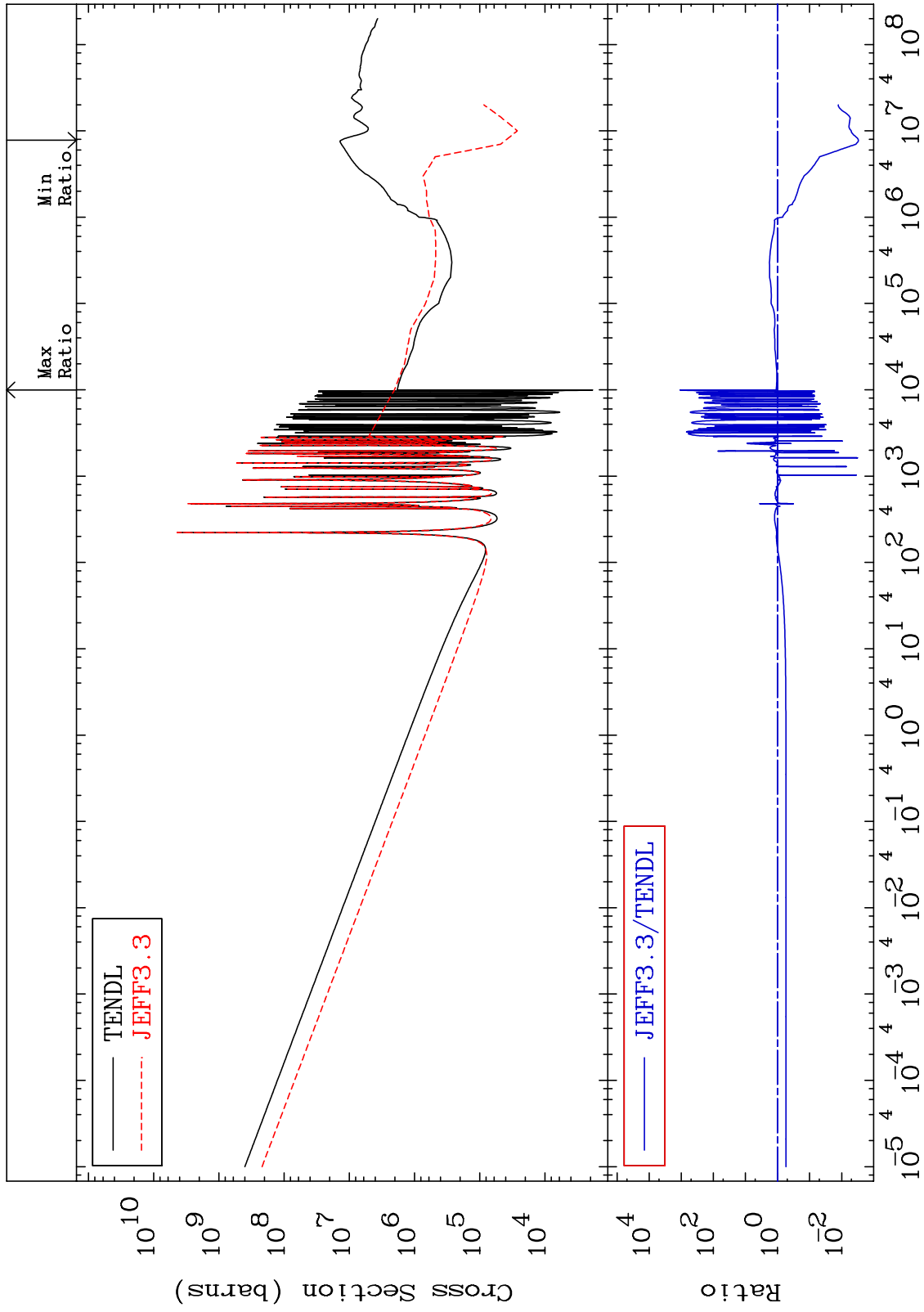
Incident Energy (eV)

64-Gd-160

MAT 6449

Total photon (eV-barns)
Cross Section

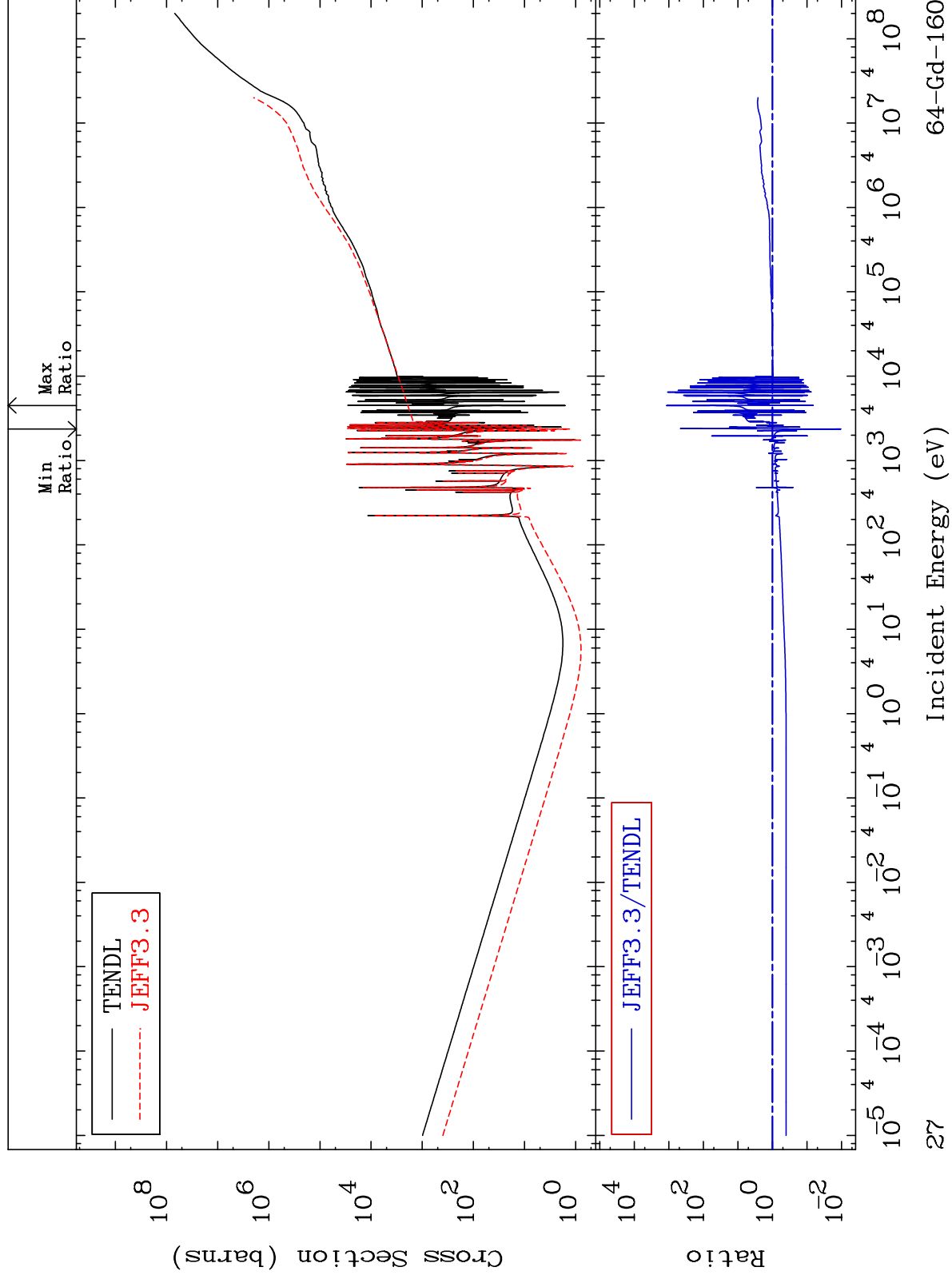
64-Gd-160
-99.70 To 9999. %



MAT 6449

Total kinematic kerma (high limit)
Cross Section

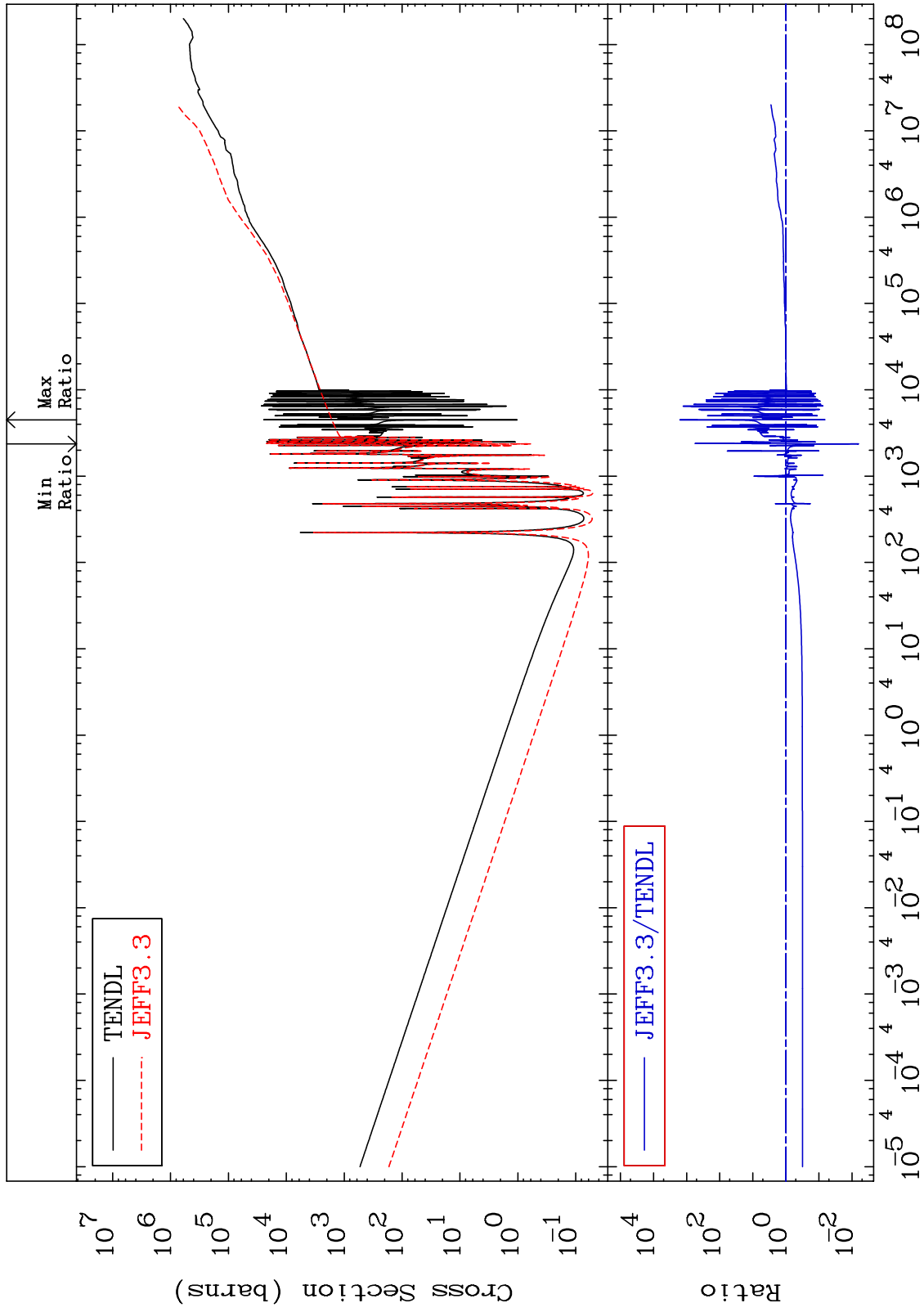
64-Gd-160
-98.95 To 9999. %



MAT 6449

Dpa total (eV-barns)
Cross Section

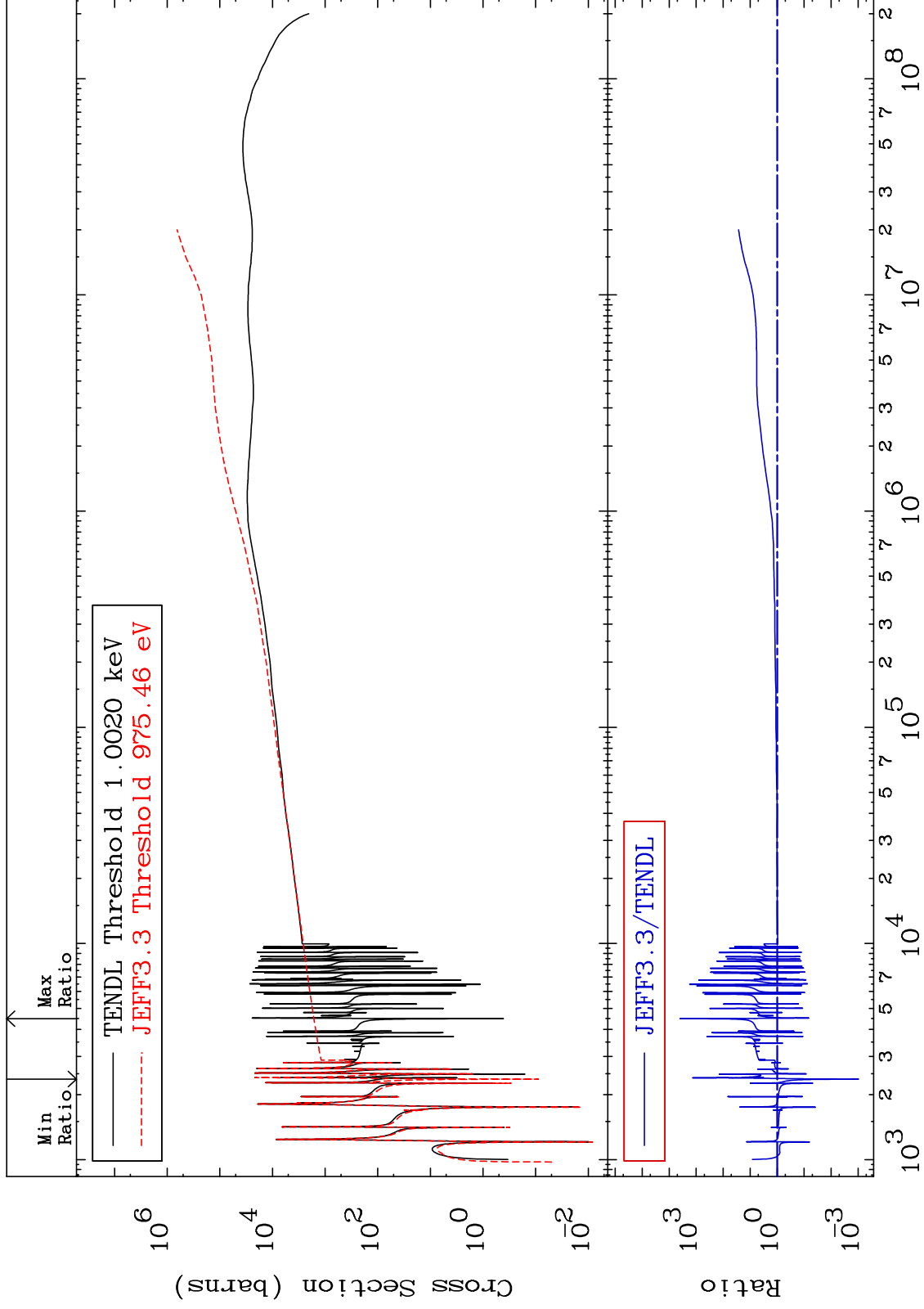
64-Gd-160
-99.36 To 9999. %



MAT 6449

Dpa elastic (mt2)
Cross Section

64-Gd-160
-99.90 To 9999. %



29

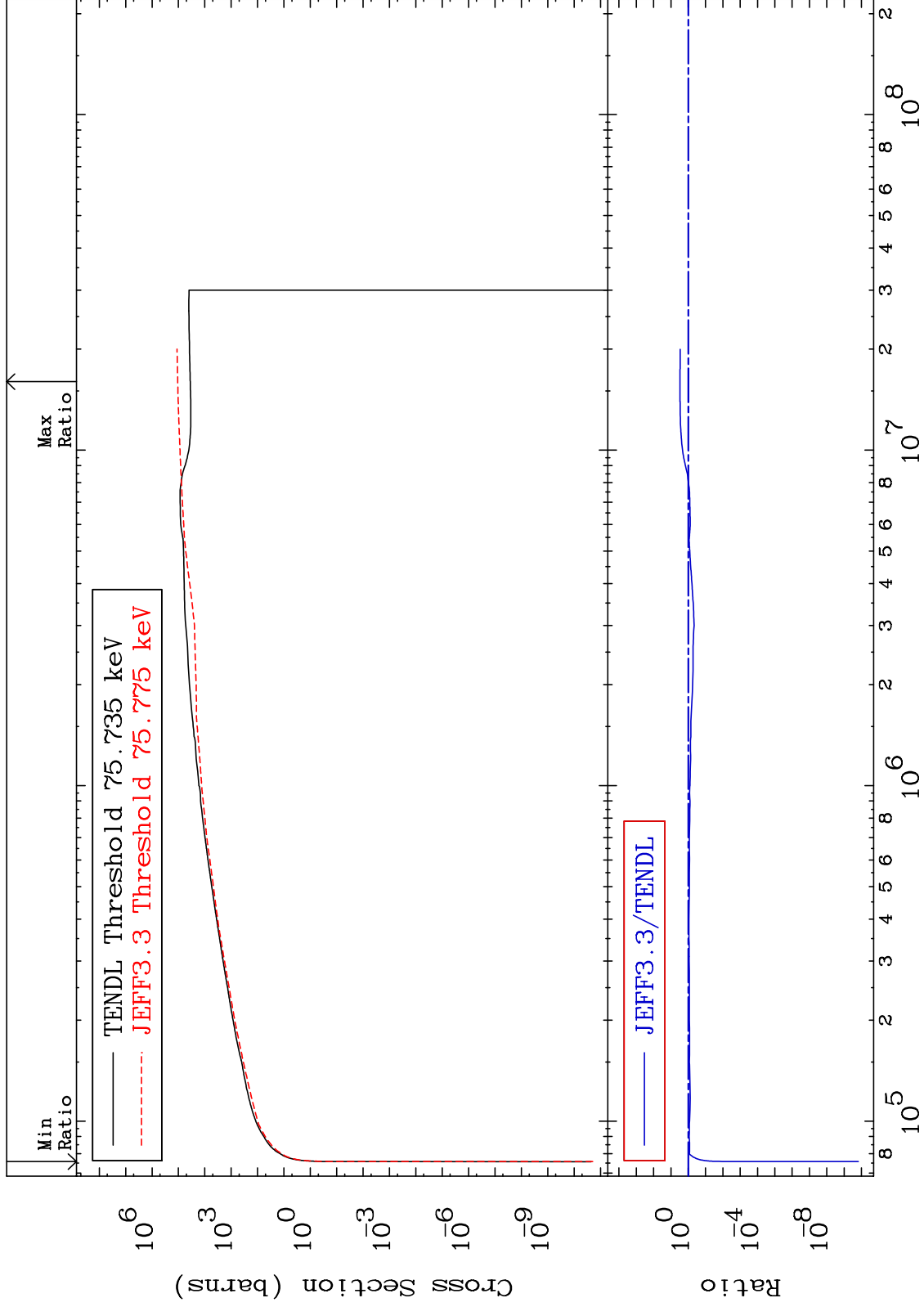
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa inelastic (mt51-91)
Cross Section

64-Gd-160
-100.0 To 199.0 %



30

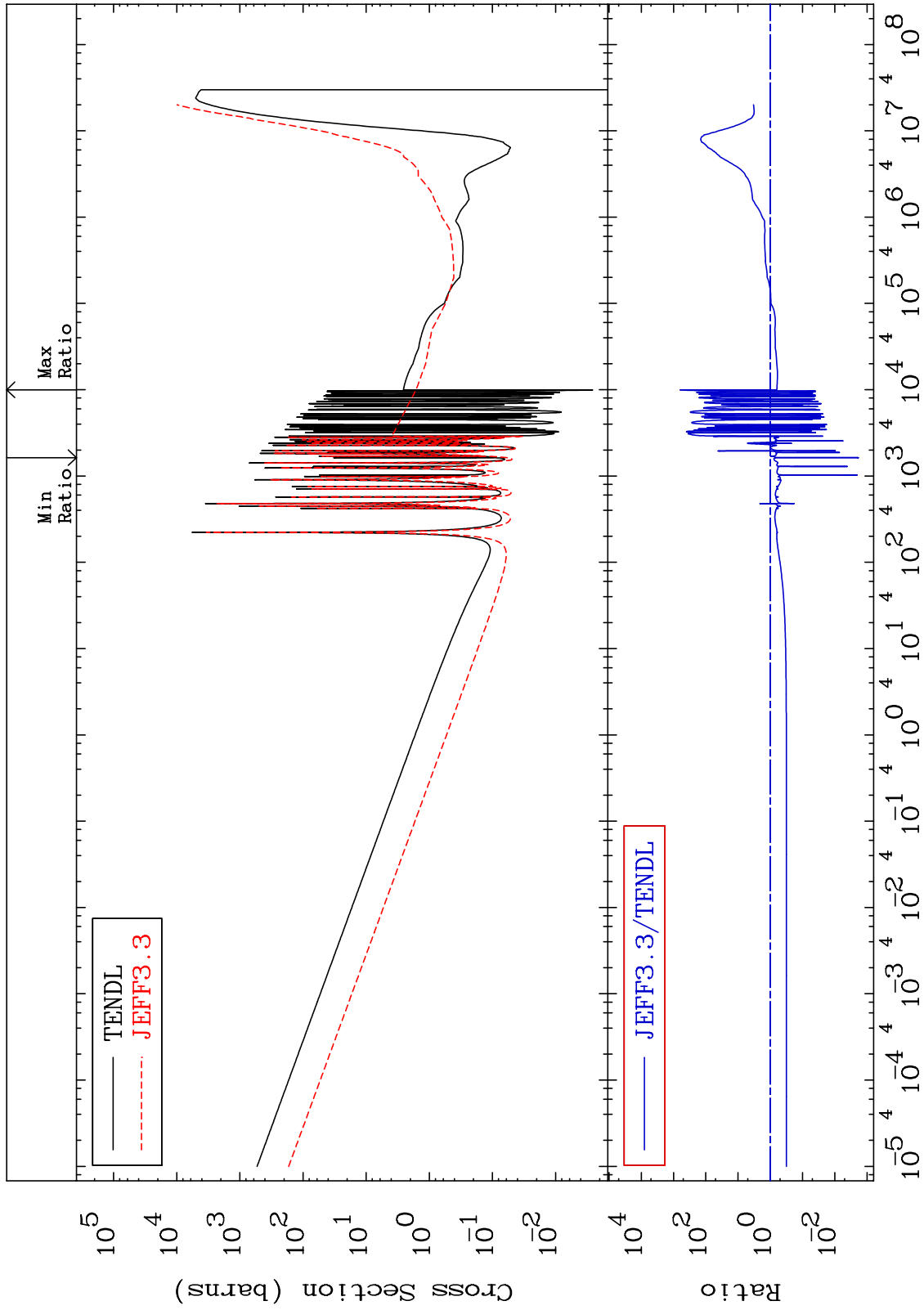
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa disappearance (mt102 -120)
Cross Section

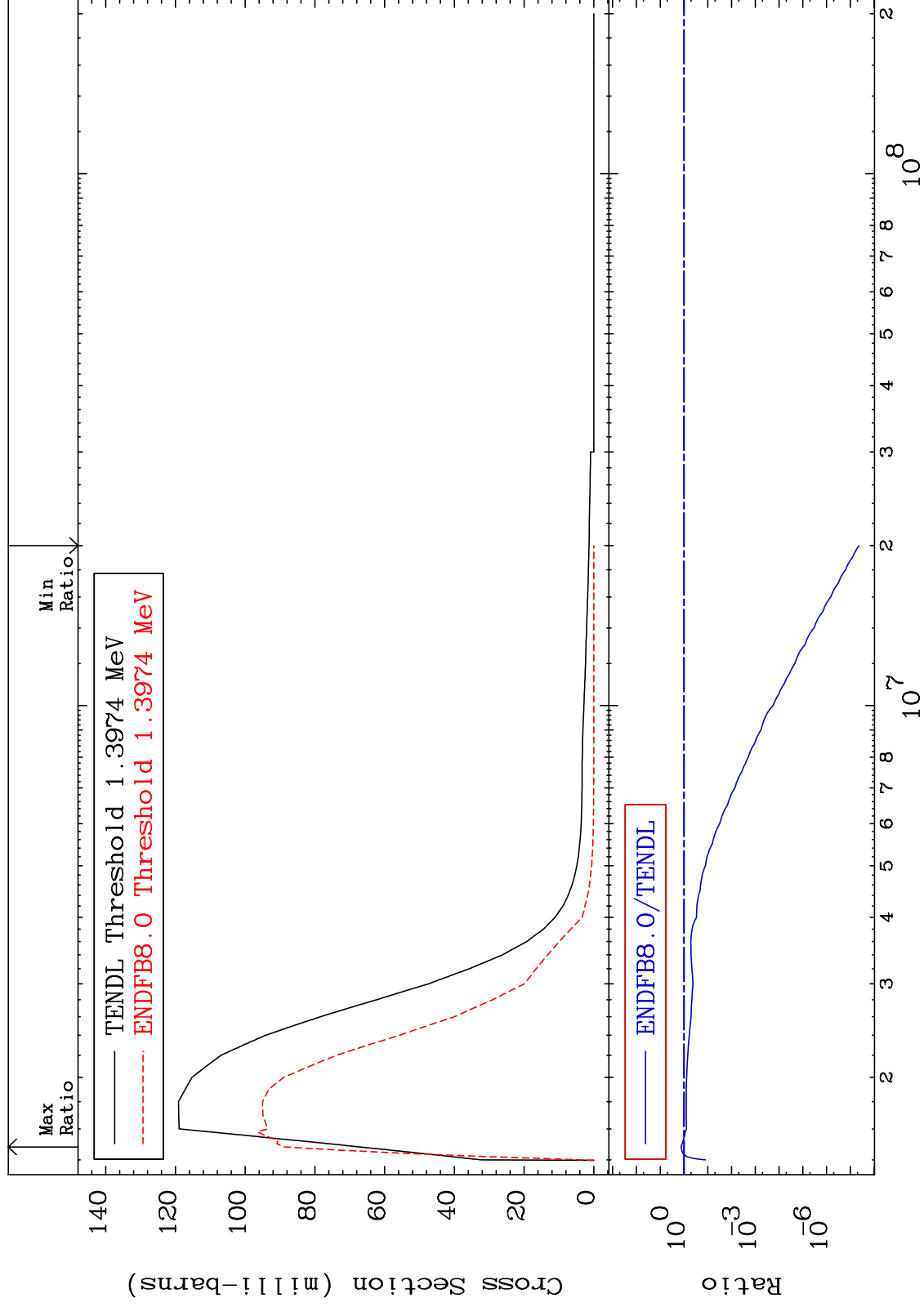
64-Gd-160
-99.81 To 9999. %

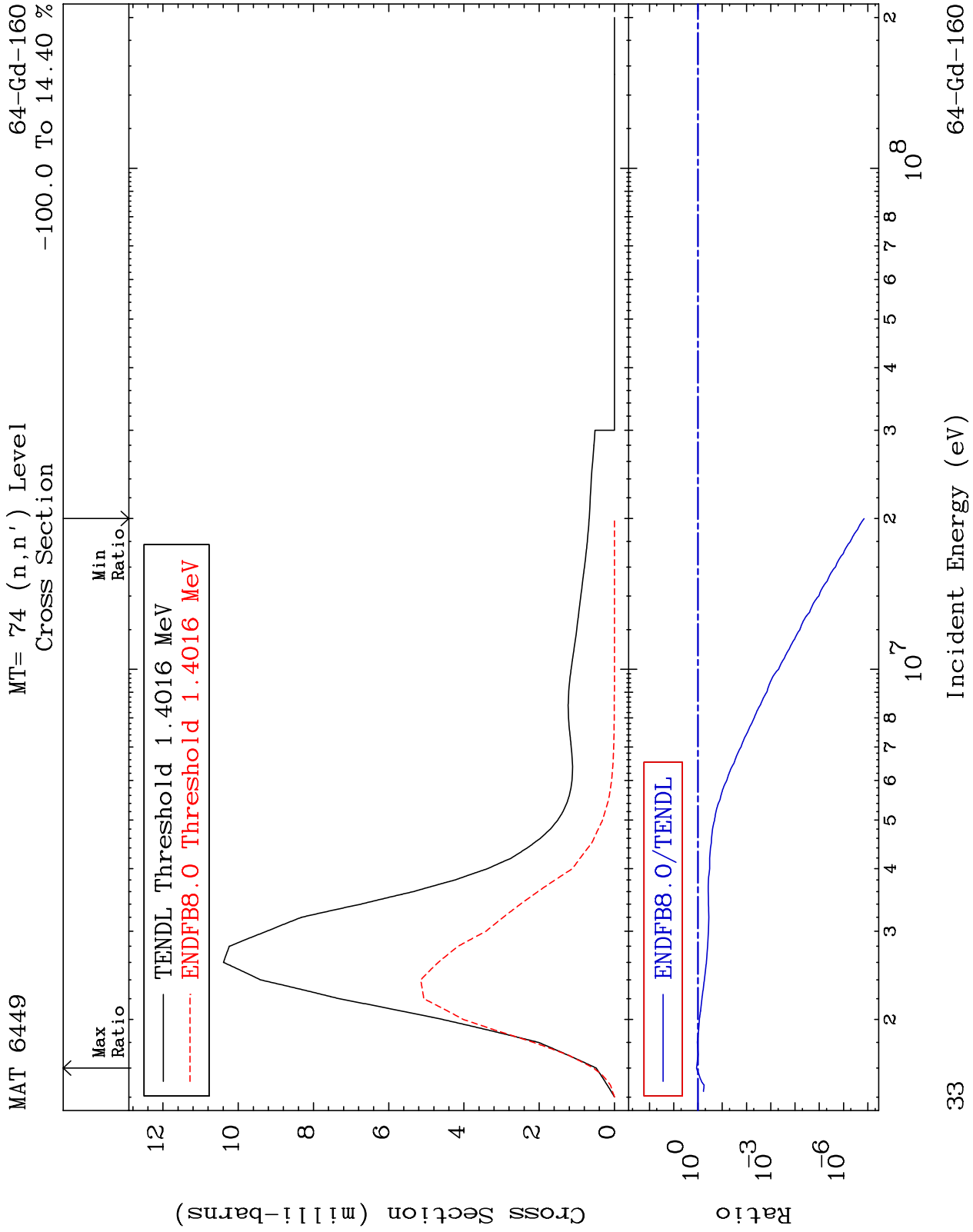


MAT 6449

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

64-Gd-160
-100.0 To 32.41 %

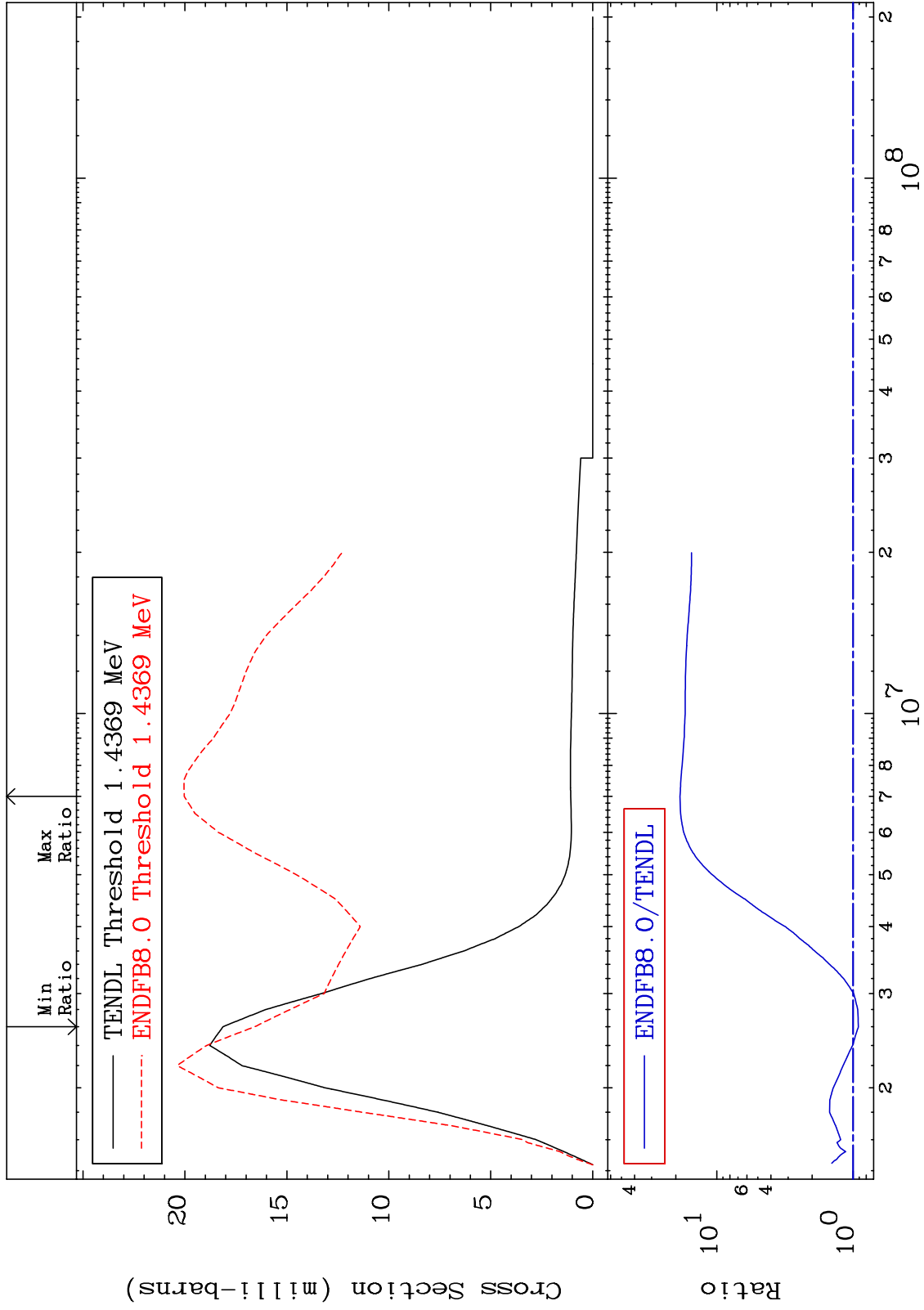




MAT 6449

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

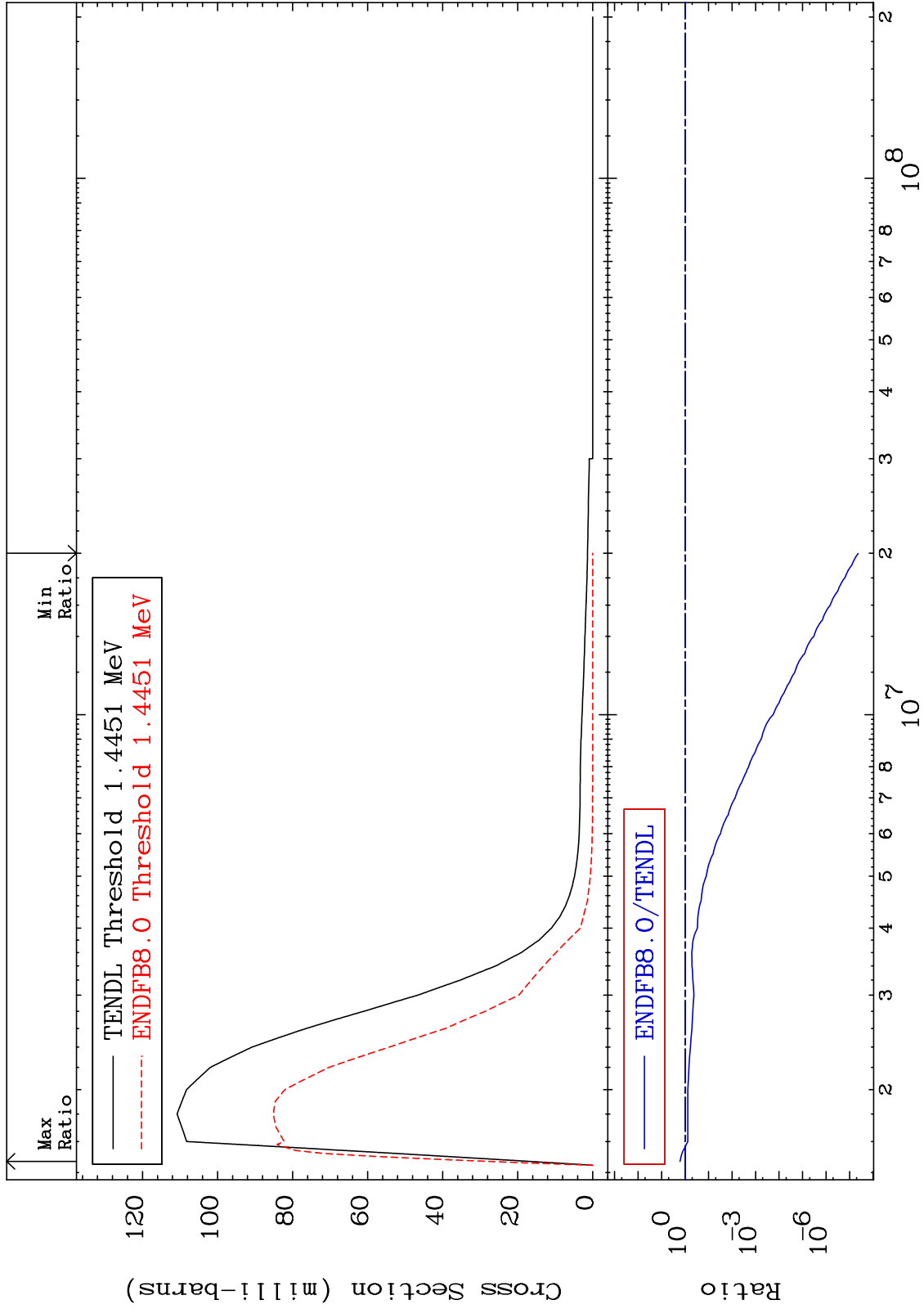
64-Gd-160
-8.581 To 1760. %



MAT 6449

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

64-Gd-160
-100.0 To 64.23 %

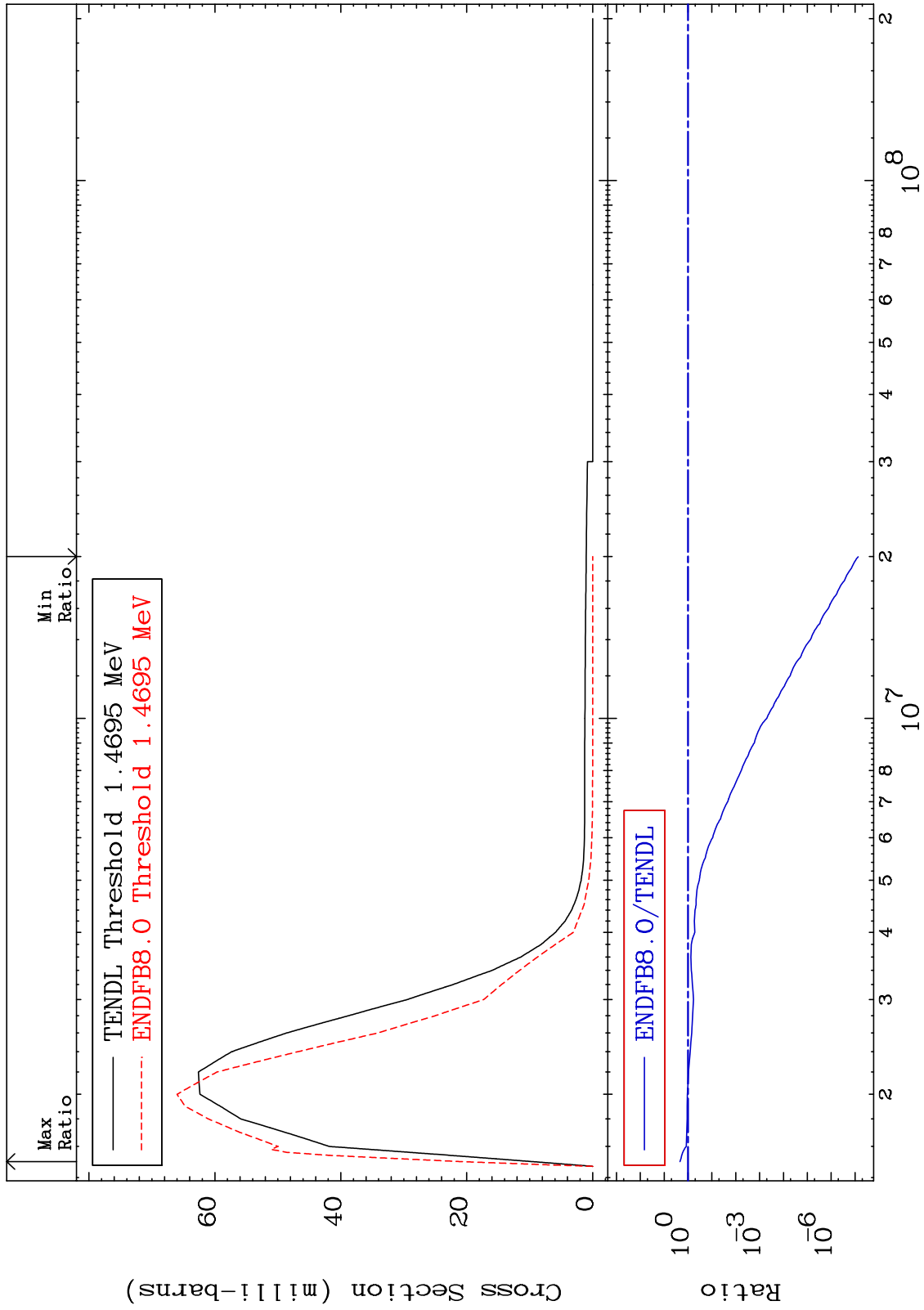


35

Incident Energy (eV)

64-Gd-160

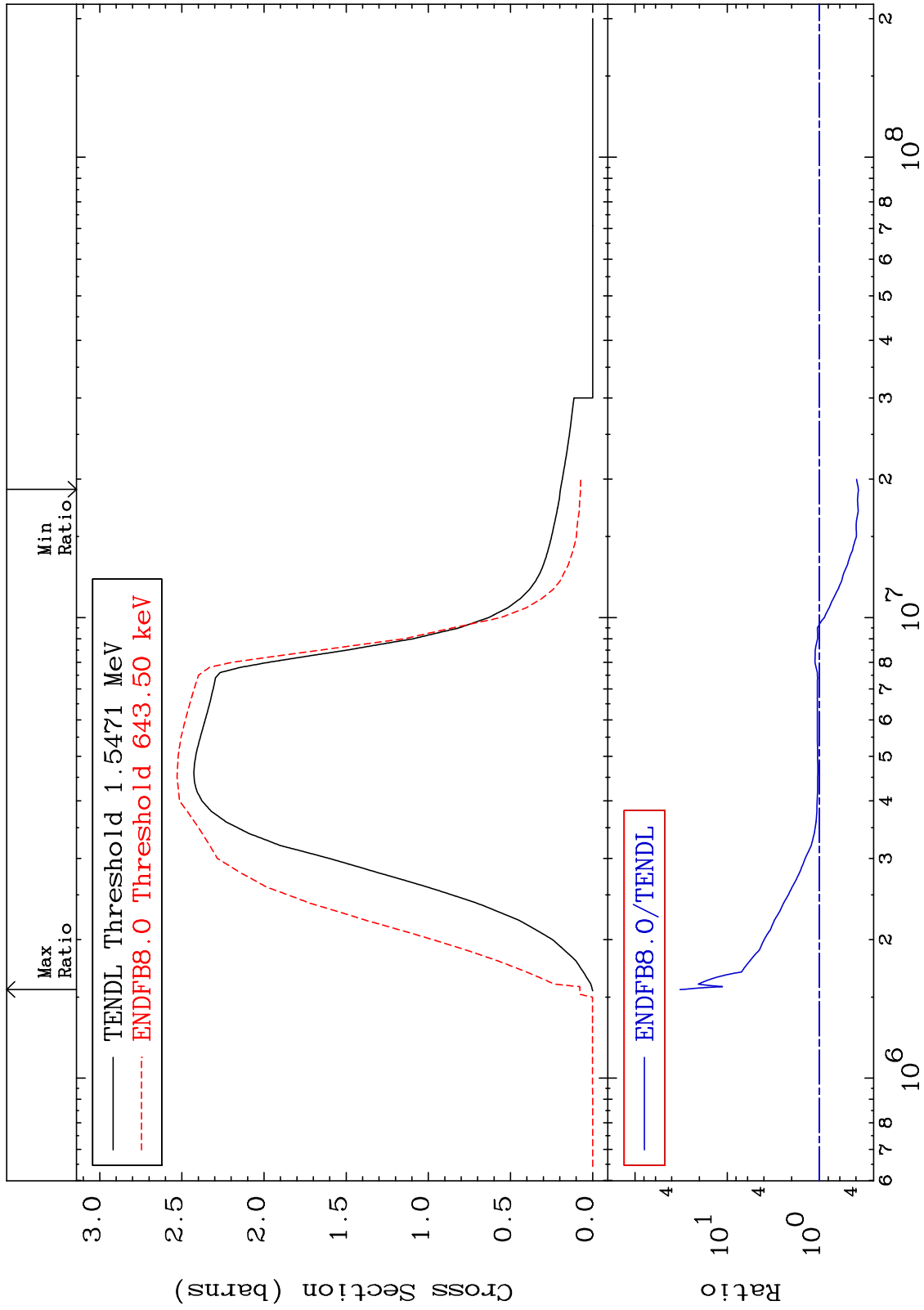
MAT 6449 MT= 77 (n,n') Level
Cross Section 64-Gd-160
-100.0 To 116.8 %



MAT 6449

(n, n') Continuum
Cross Section

64-Gd-160
-62.33 To 3149. %



37

Incident Energy (eV)

64-Gd-160

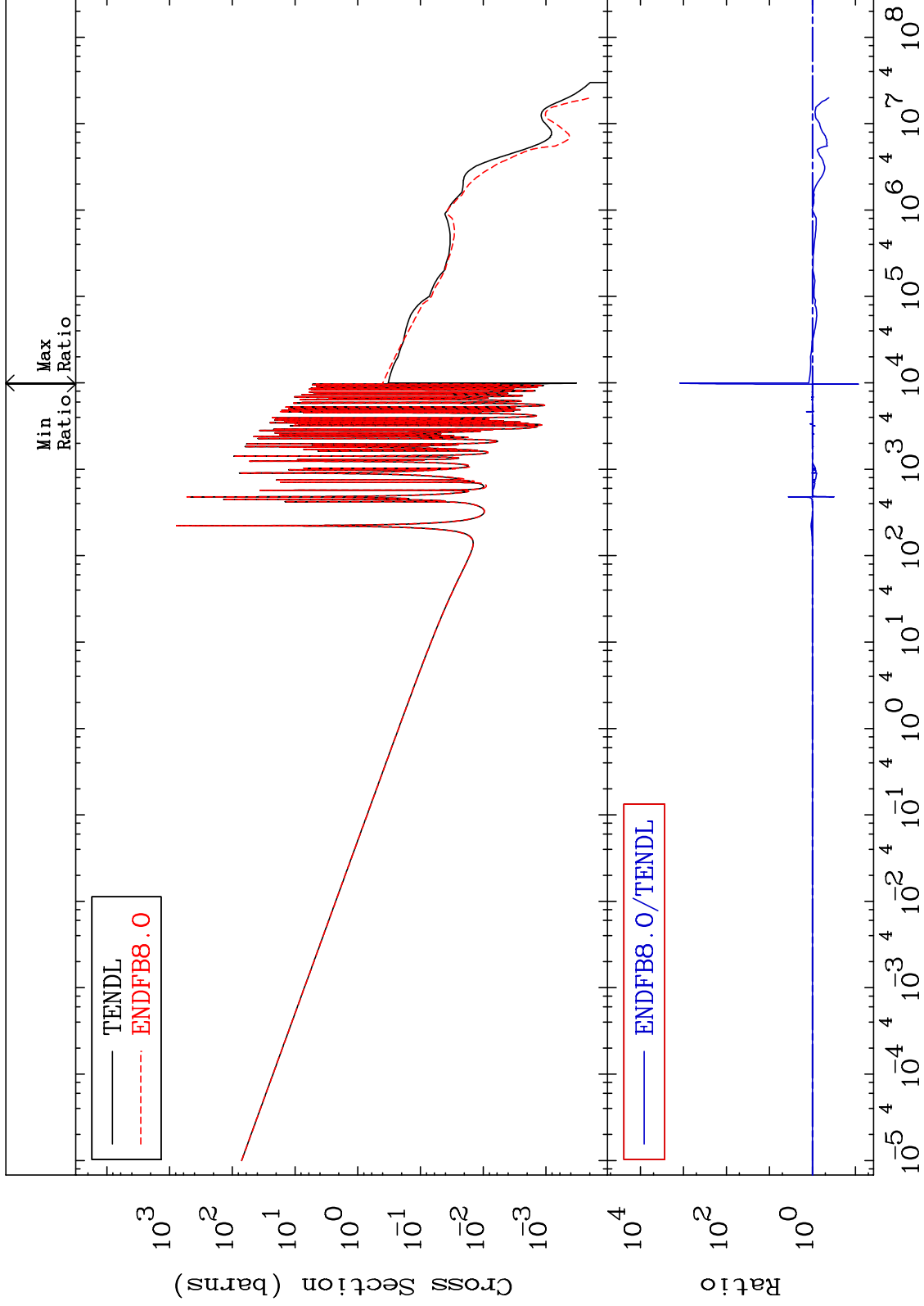
MAT 6449

(n, γ)

64-Gd-160

Cross Section

-91.43 To 9999. %



38

Incident Energy (eV)

64-Gd-160

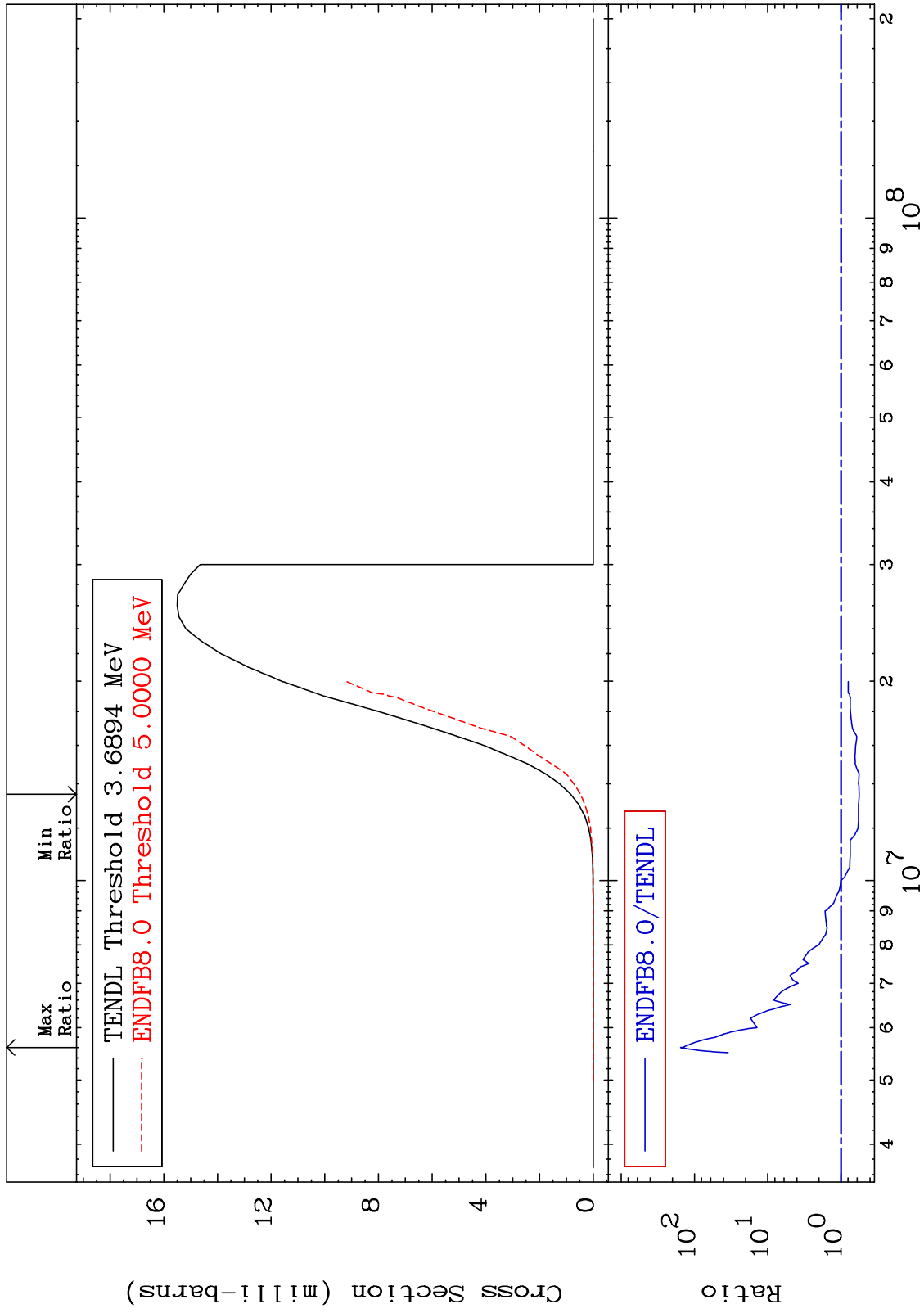
MAT 6449

(n,p)

64-Gd-160

Cross Section

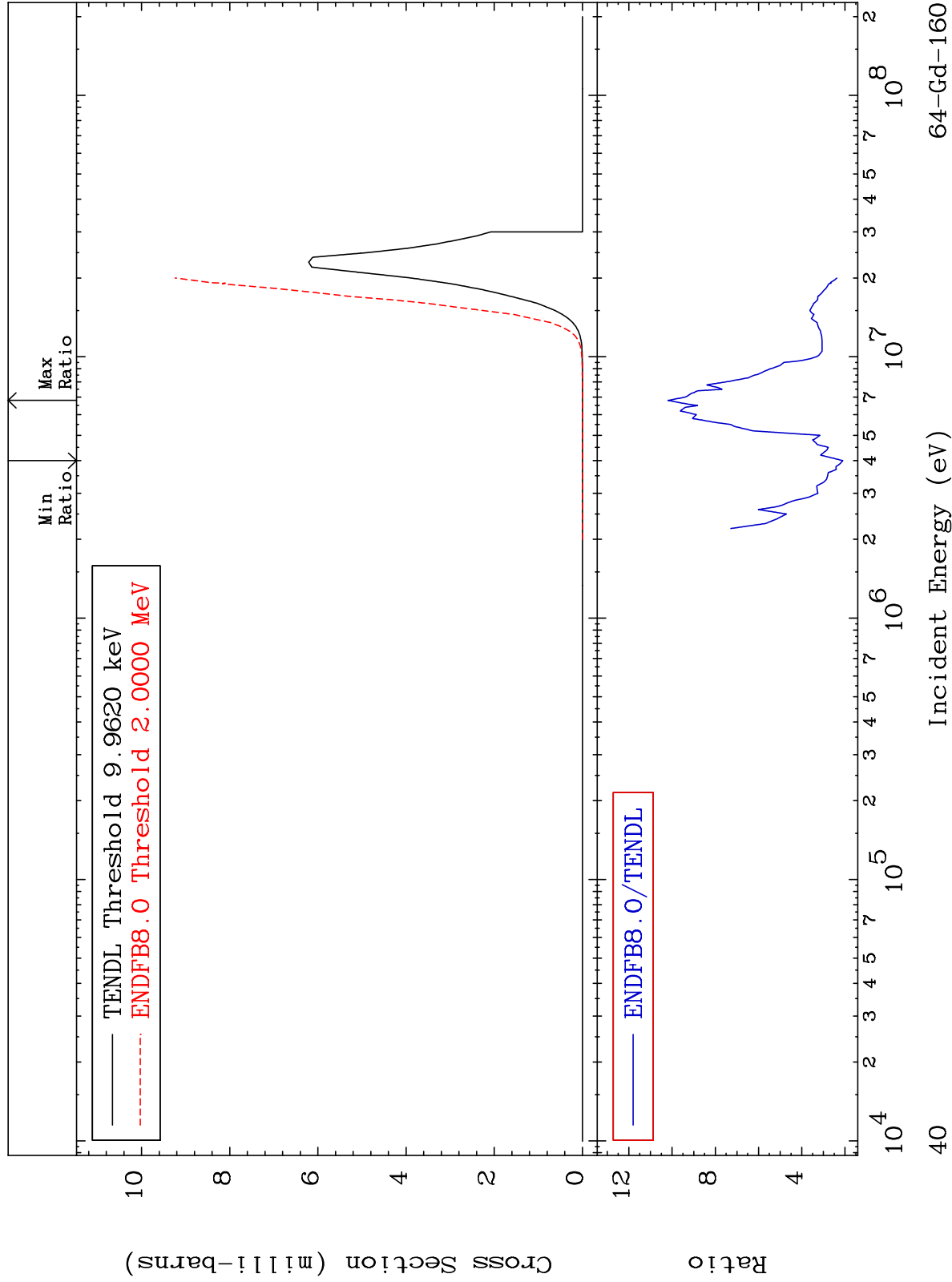
-43.63 To 9999. %



MAT 6449

(n, α)
Cross Section

64-Gd-160
110.0 To 918.9 %

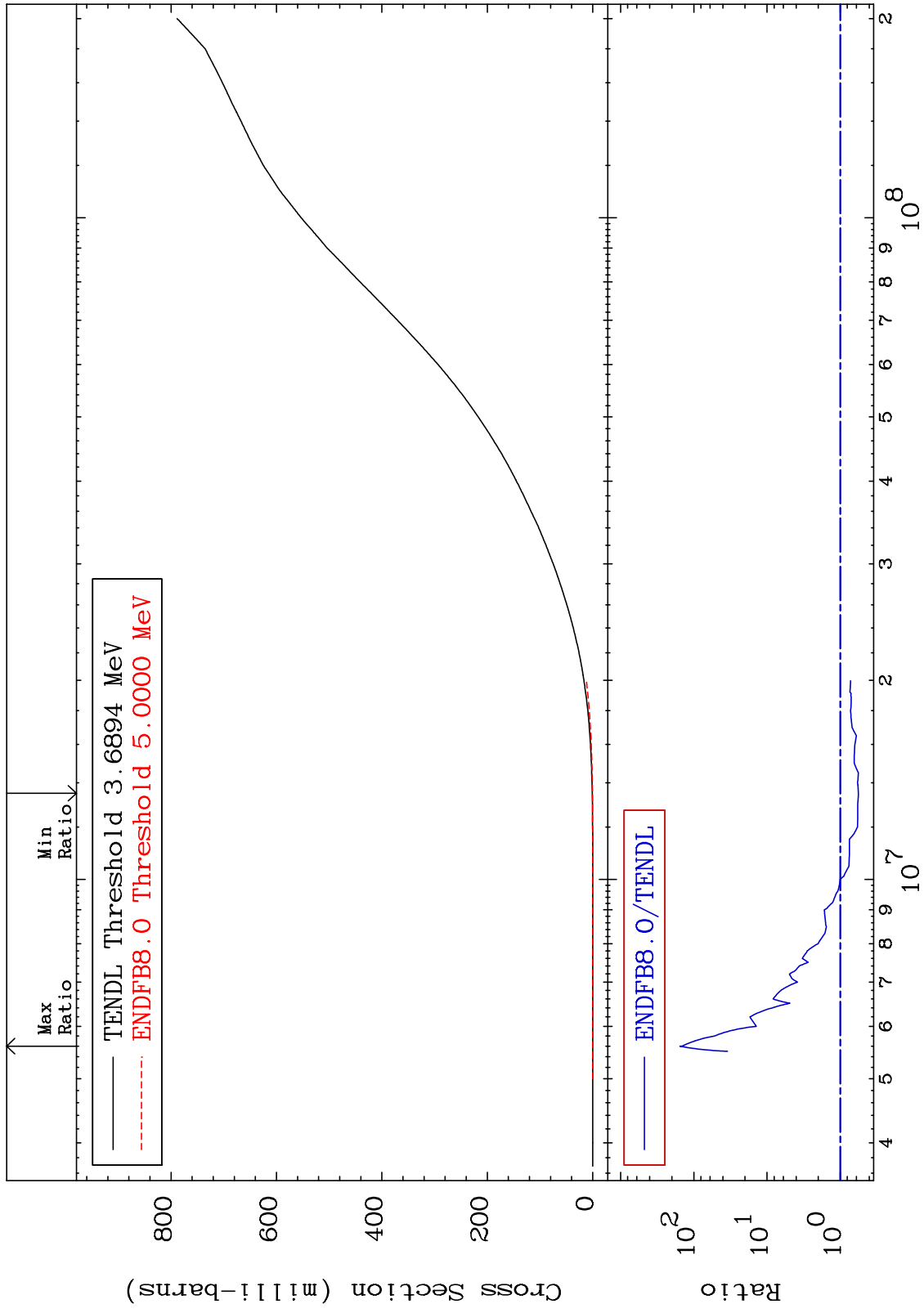


64-Gd-160

MAT 6449

Hydrogen Production
Cross Section

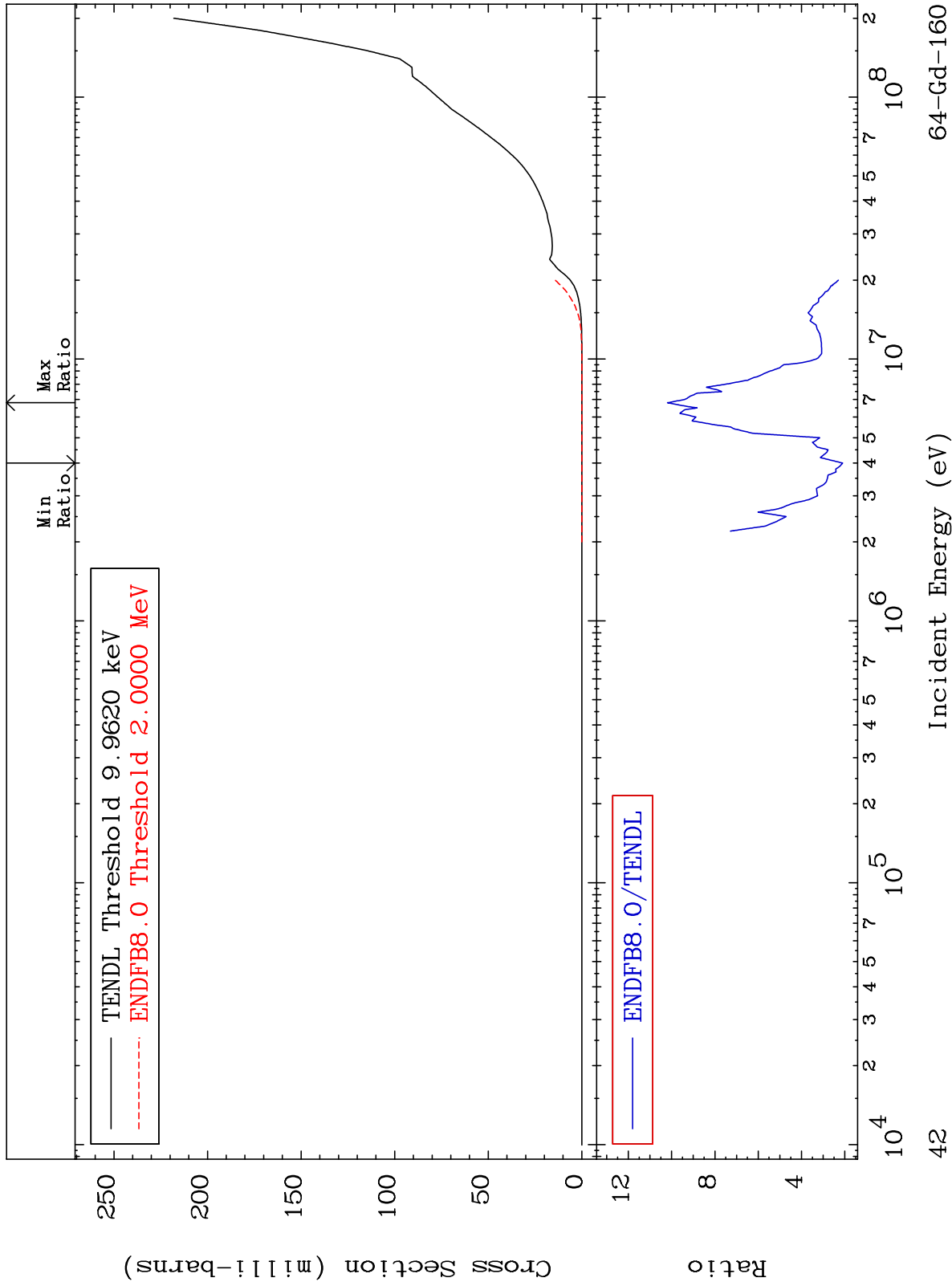
64-Gd-160
-43.62 To 9999. %



MAT 6449

He-4 Production
Cross Section

64-Gd-160
110.0 To 918.9 %



64-Gd-160

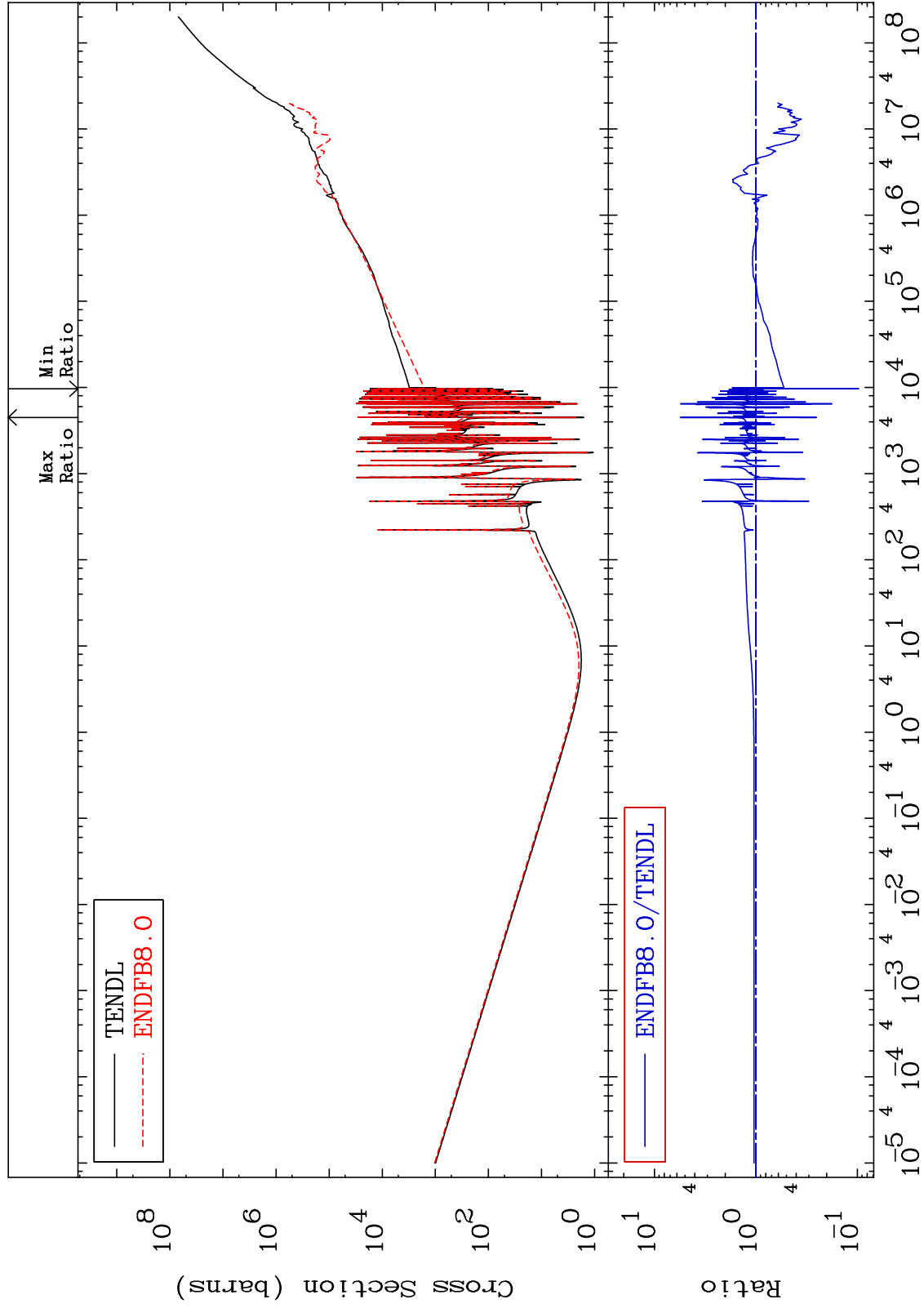
Incident Energy (eV)

42

MAT 6449

Kerma total (eV-barns)
Cross Section

64-Gd-160
-90.27 To 453.5 %



43

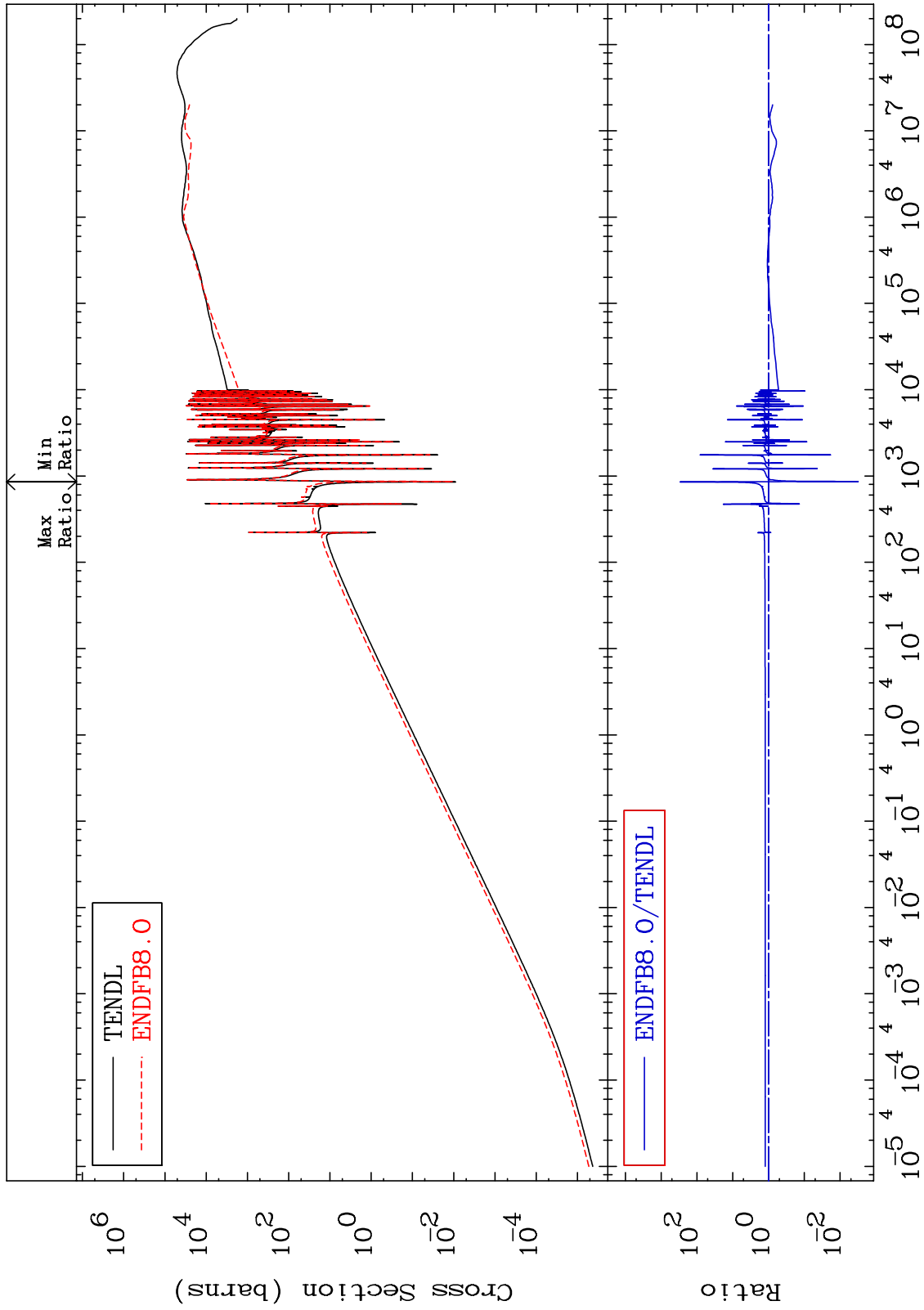
Incident Energy (eV)

64-Gd-160

MAT 6449

Kerma elastic
Cross Section

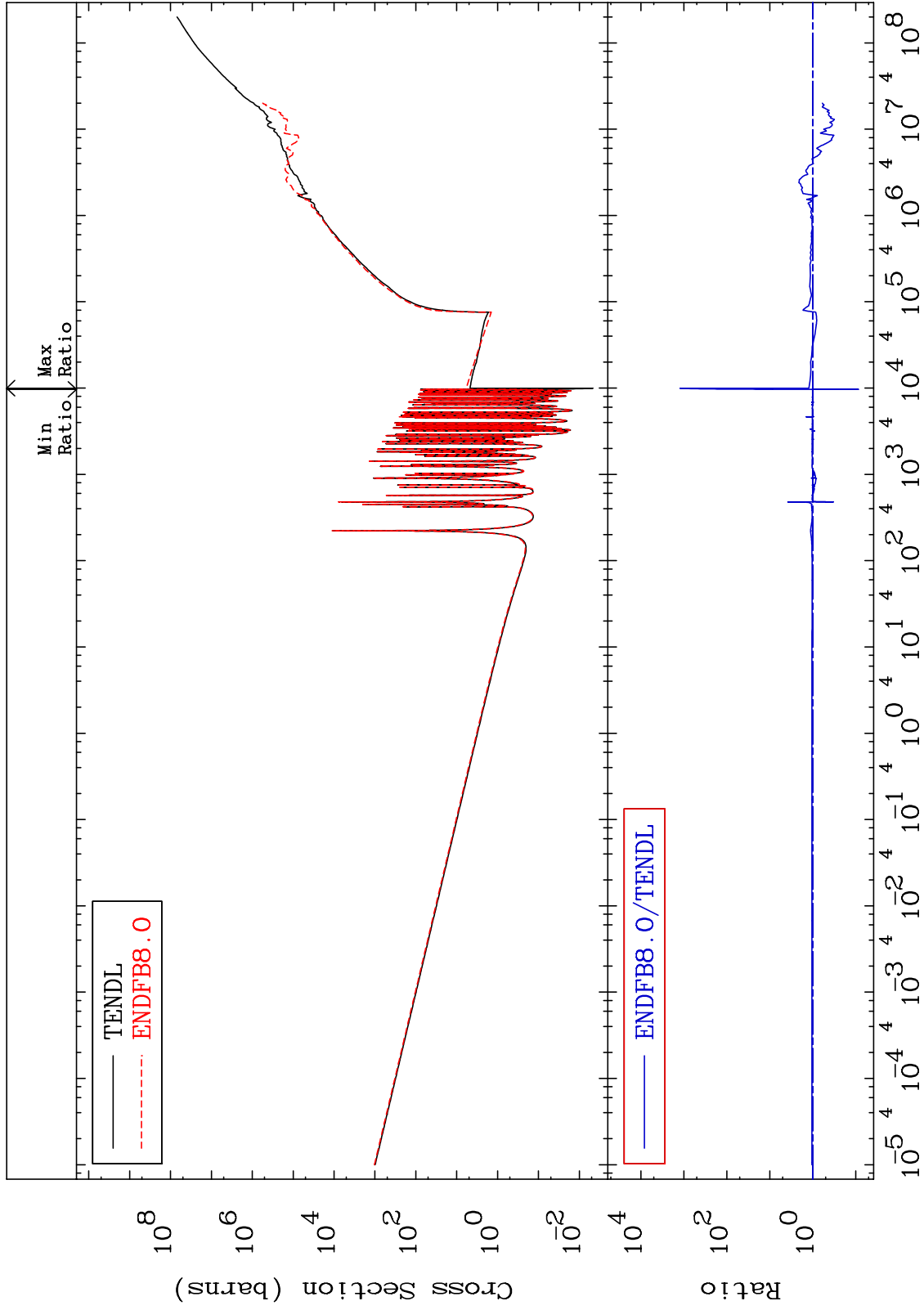
64-Gd-160
-99.69 To 9999. %



MAT 6449

Kerma non-elastic (all but mt2)
Cross Section

64-Gd-160
-91.34 To 9999. %



45

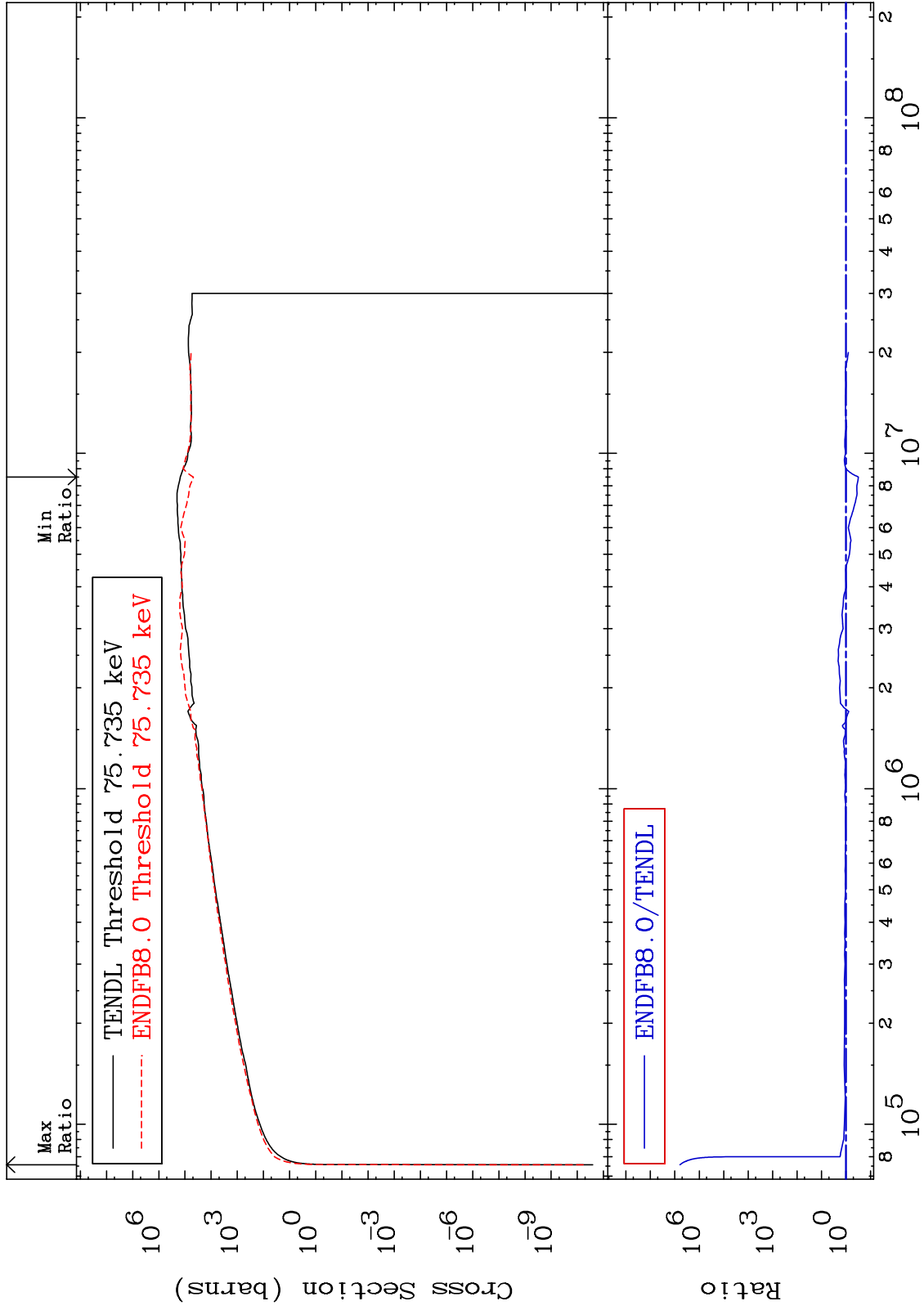
Incident Energy (eV)

64-Gd-160

MAT 6449

Kerma inelastic (mt51-91)
Cross Section

64-Gd-160
-68.81 To 9999. %



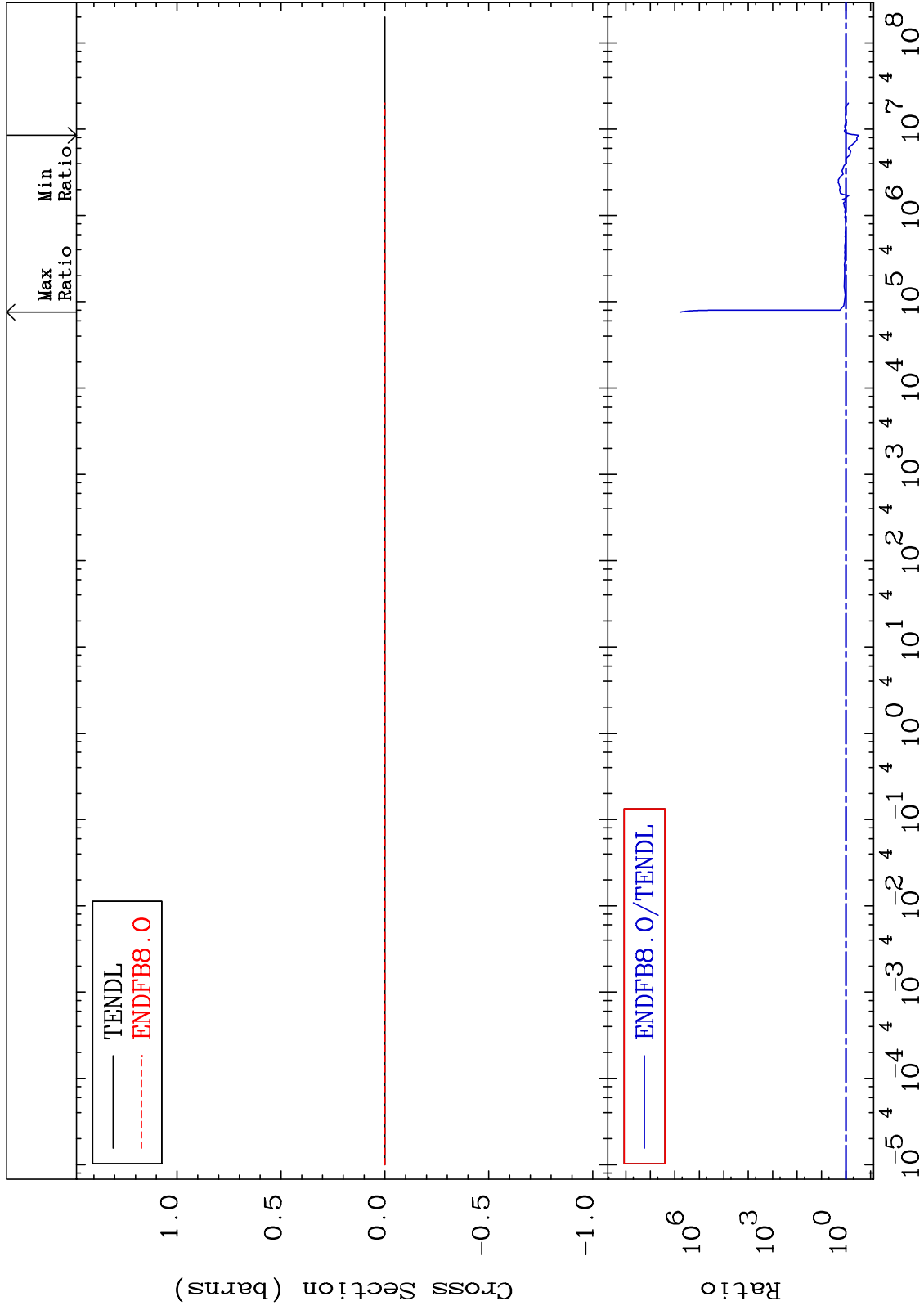
46

64-Gd-160

MAT 6449

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

64-Gd-160
-68.81 To 9999. %



47

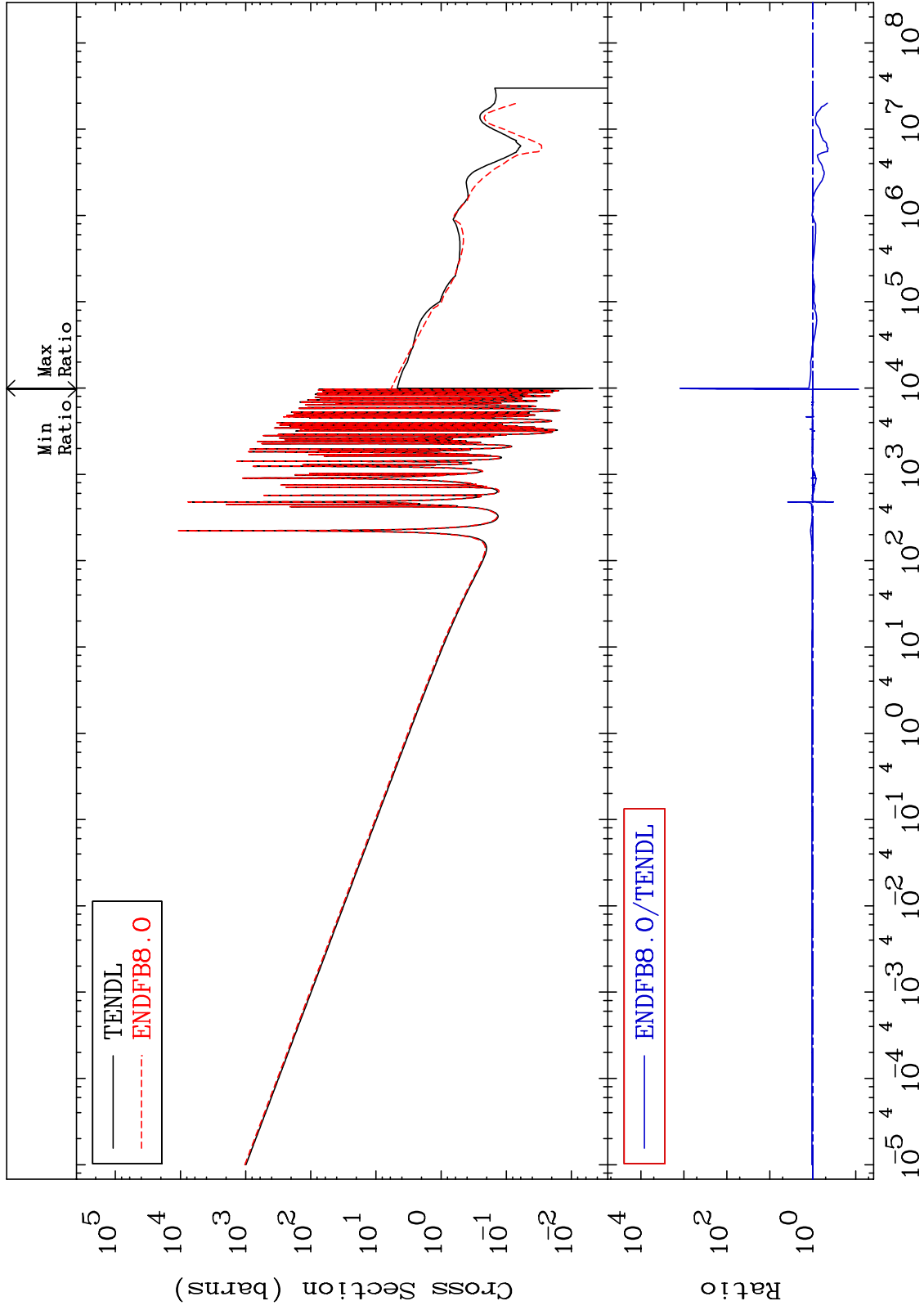
Incident Energy (eV)

64-Gd-160

MAT 6449

Kerma capture (mt102)
Cross Section

64-Gd-160
-91.34 To 9999. %



48

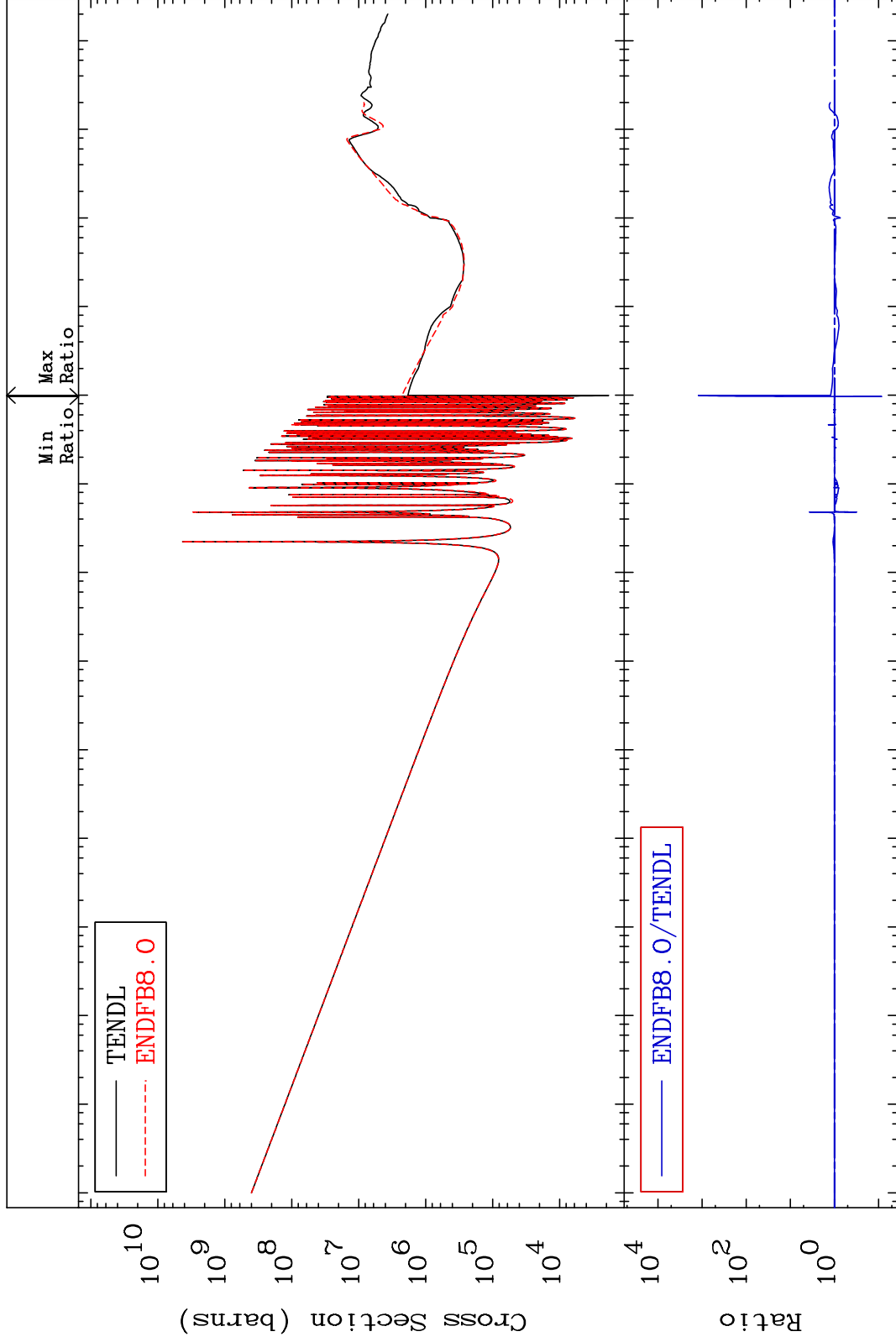
Incident Energy (eV)

64-Gd-160

MAT 6449

Total photon (eV-barns)
Cross Section

64-Gd-160
-91.44 To 9999. %



49

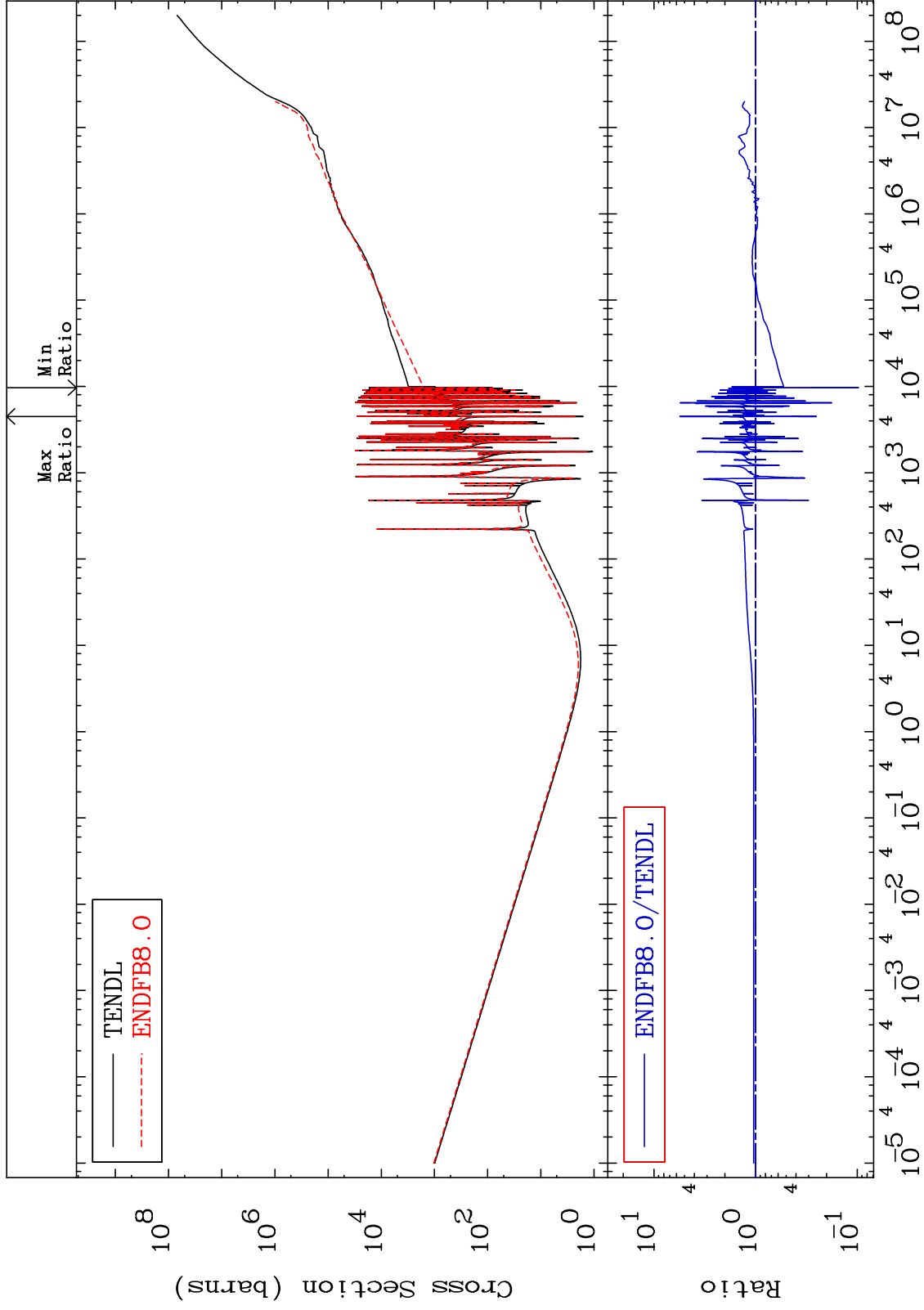
Incident Energy (eV)

64-Gd-160

MAT 6449

Total kinematic kerma (high limit)
Cross Section

64-Gd-160
-90.27 To 453.5 %



50

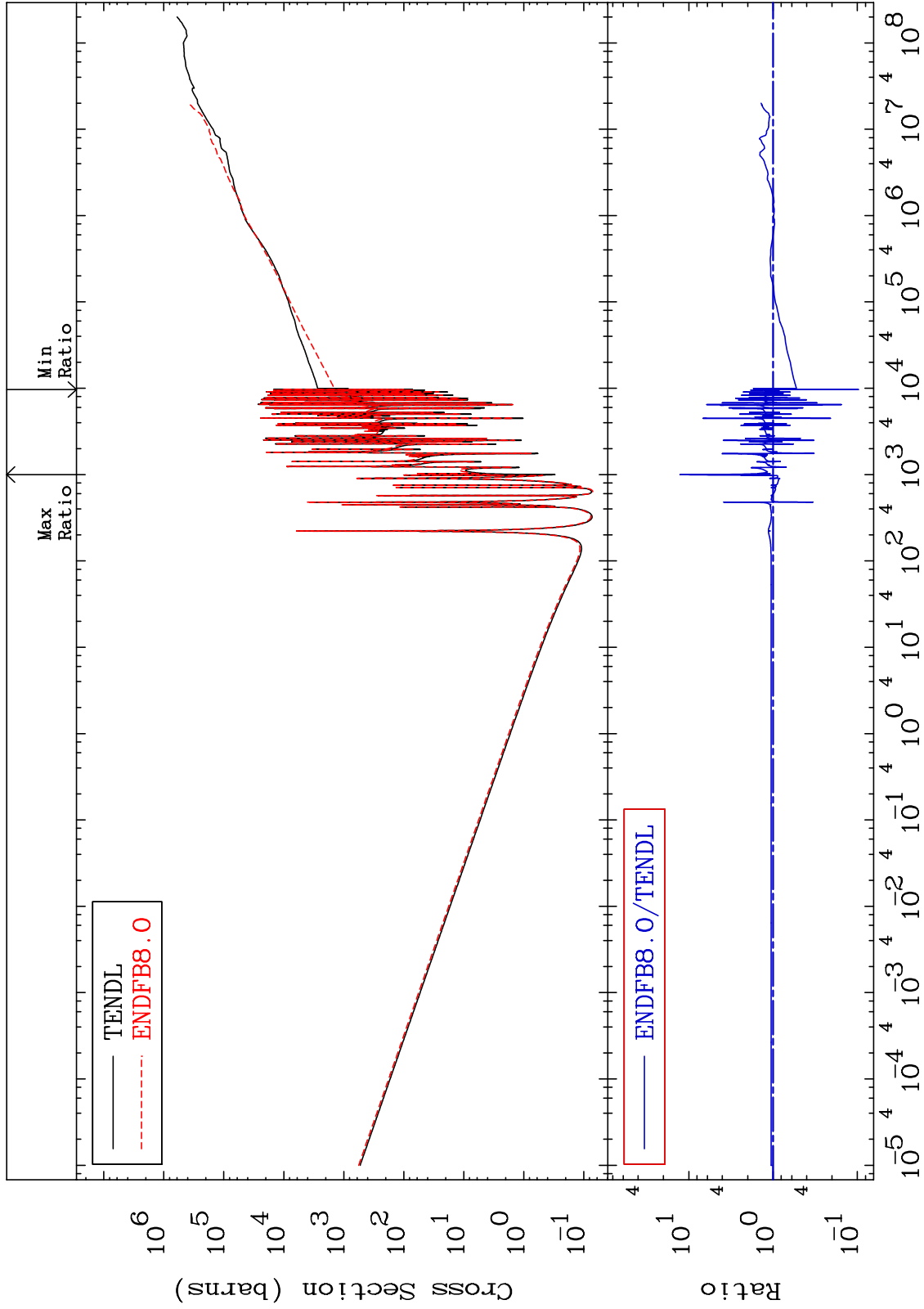
Incident Energy (eV)

64-Gd-160

MAT 6449

Dpa total (eV-barns)
Cross Section

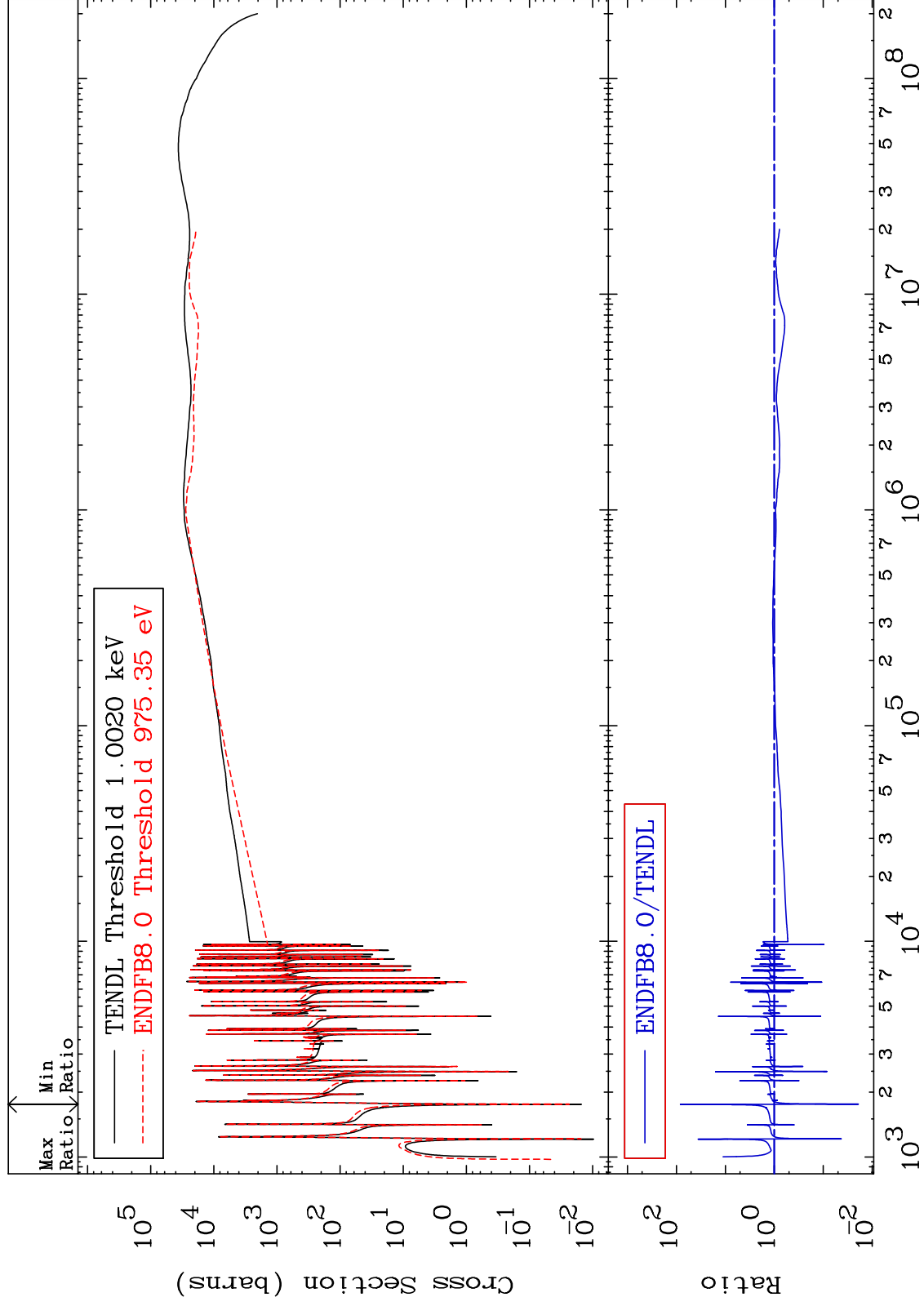
64-Gd-160
-90.28 To 1171. %



MAT 6449

Dpa elastic (mt2)
Cross Section

64-Gd-160
-98.09 To 8161. %



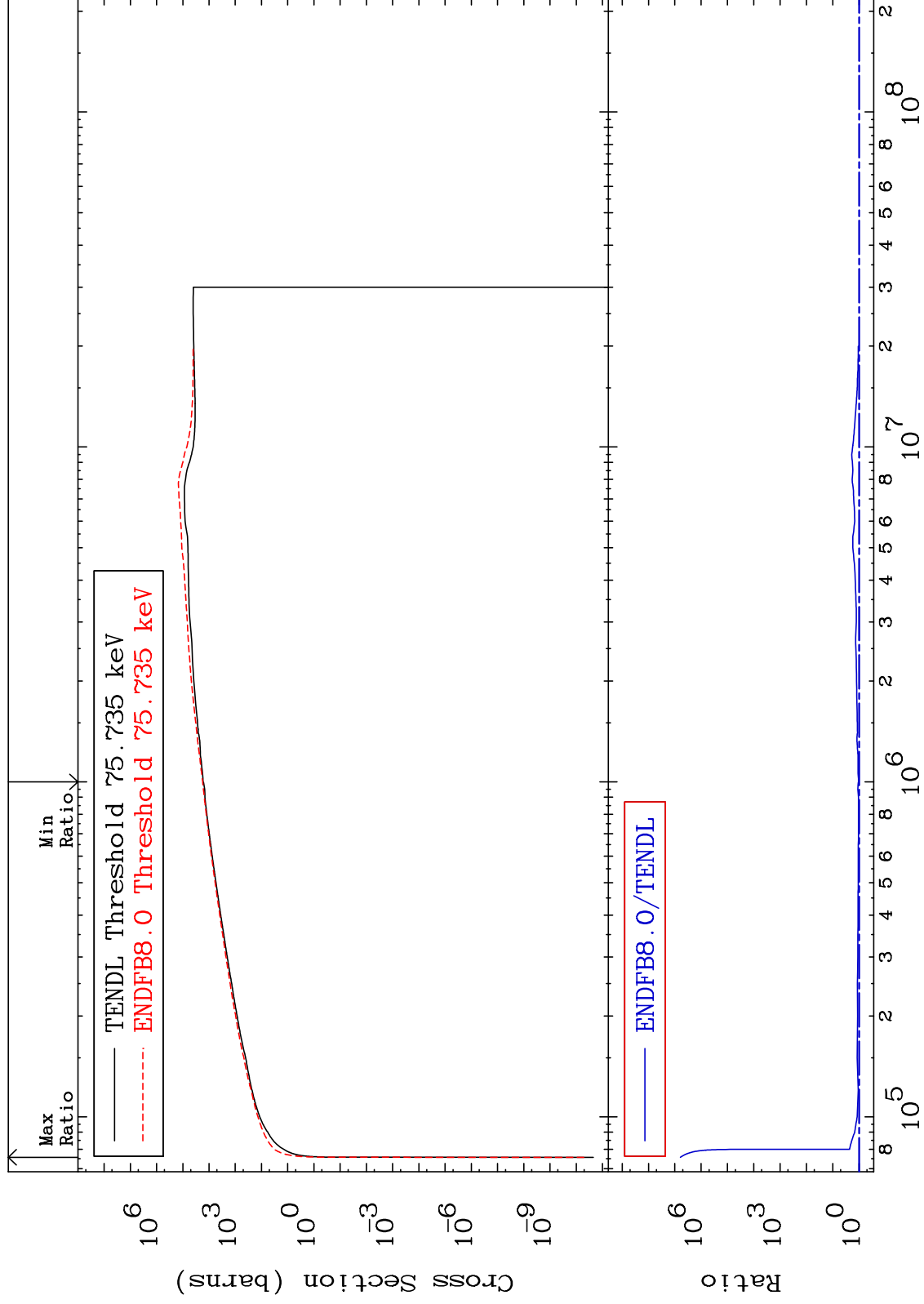
52

64-Gd-160

MAT 6449

Dpa inelastic (mt51-91)
Cross Section

64-Gd-160
4.556 To 9999. %



MAT 6449

Dpa disappearance (mt102 -120)
Cross Section

64-Gd-160
-91.34 To 9999. %

