

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550

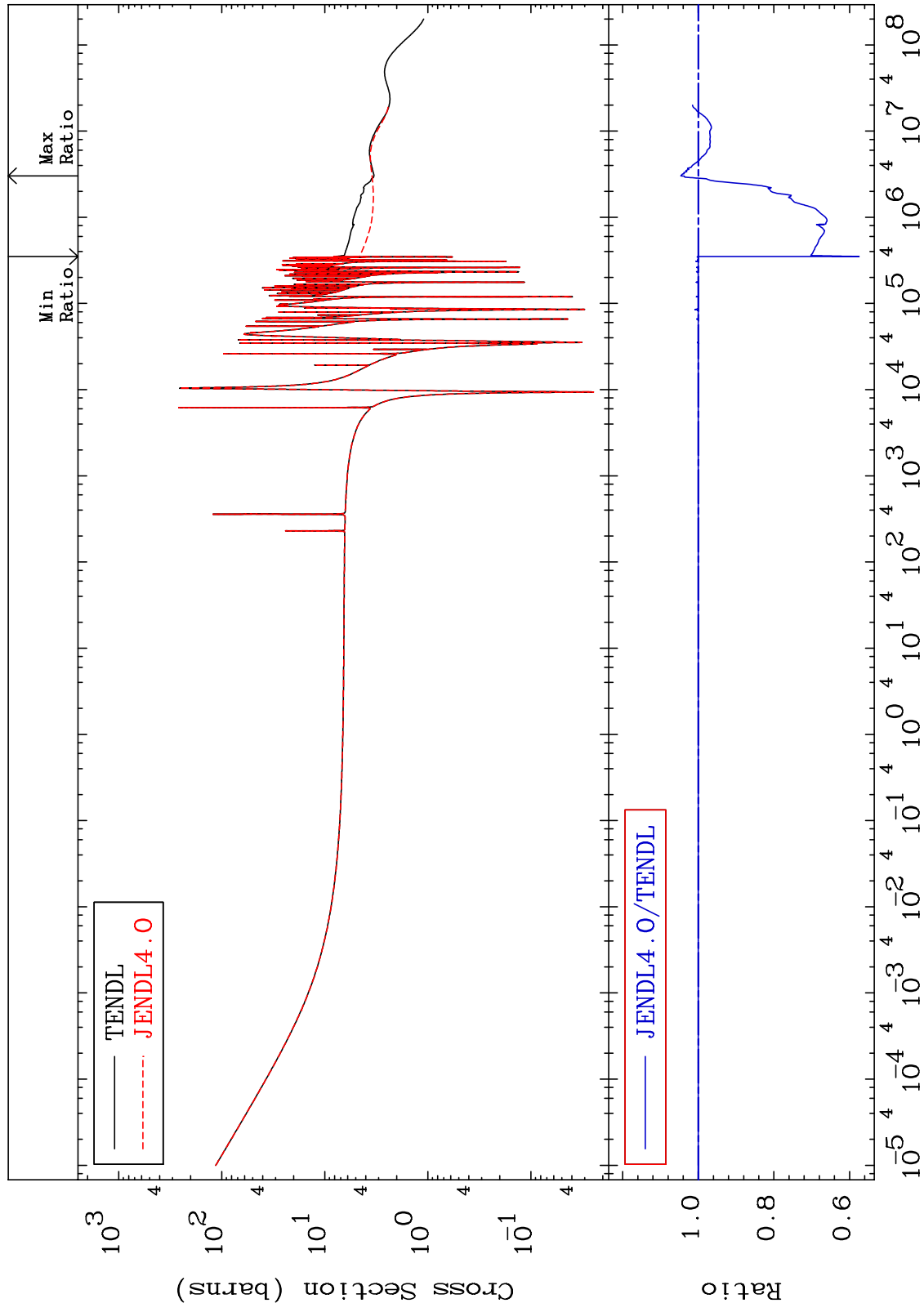
U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 2637 Total Cross Section 26-Fe-58 -42.51 To 4.612 %



26-Fe-58

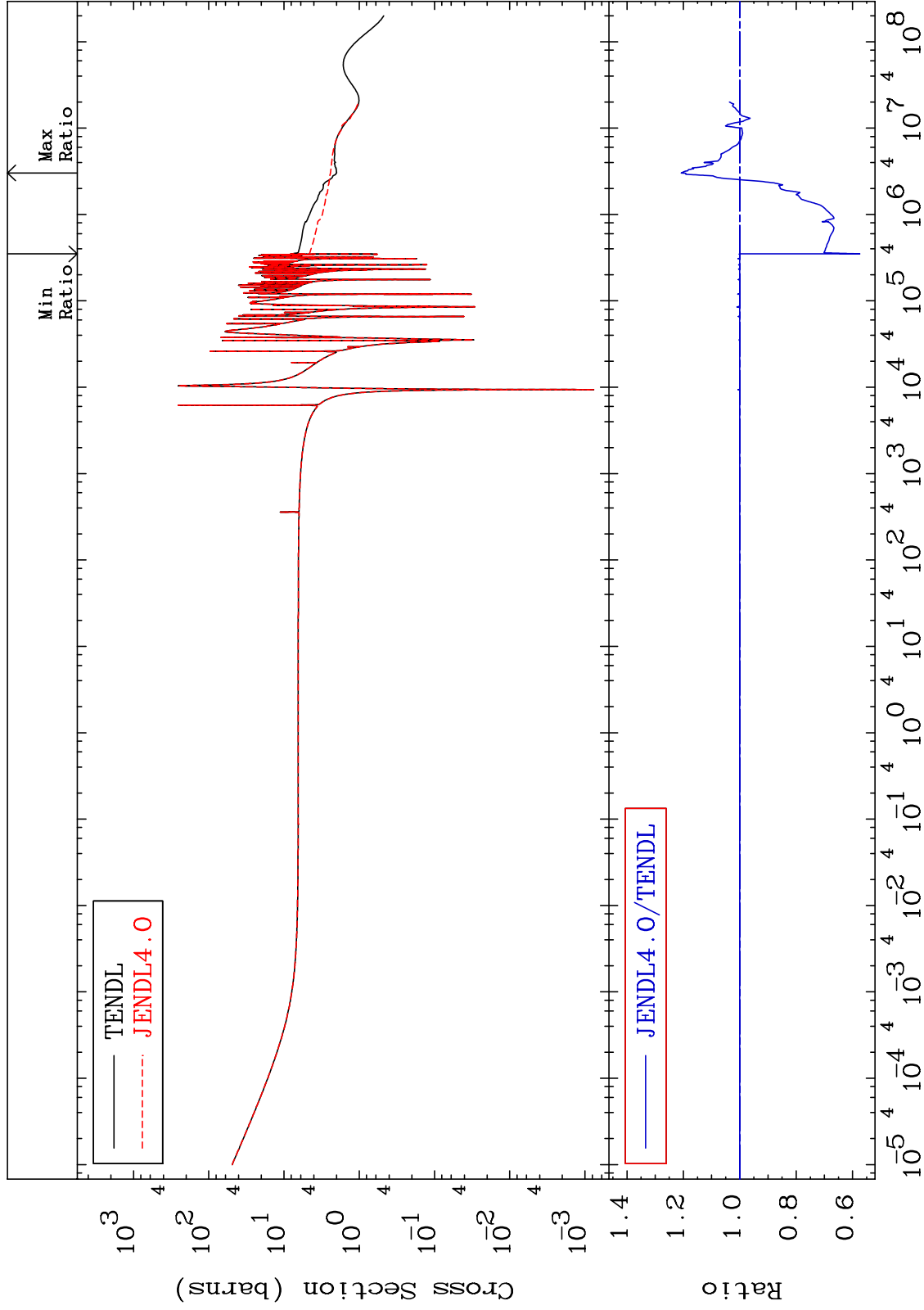
Incident Energy (eV)

1

MAT 2637

Elastic
Cross Section

26-Fe-58
-42.54 To 20.75 %

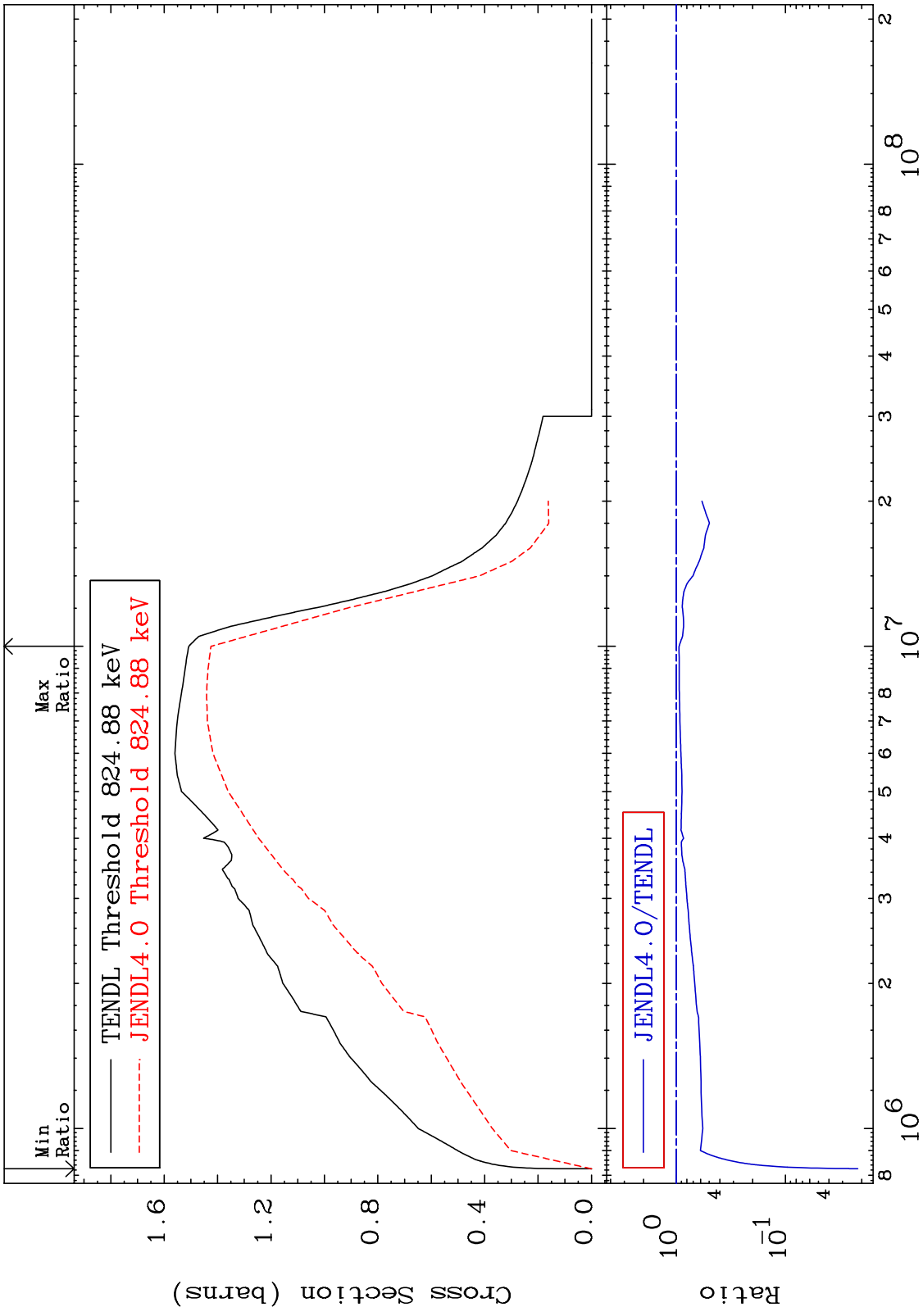


2

Incident Energy (eV)

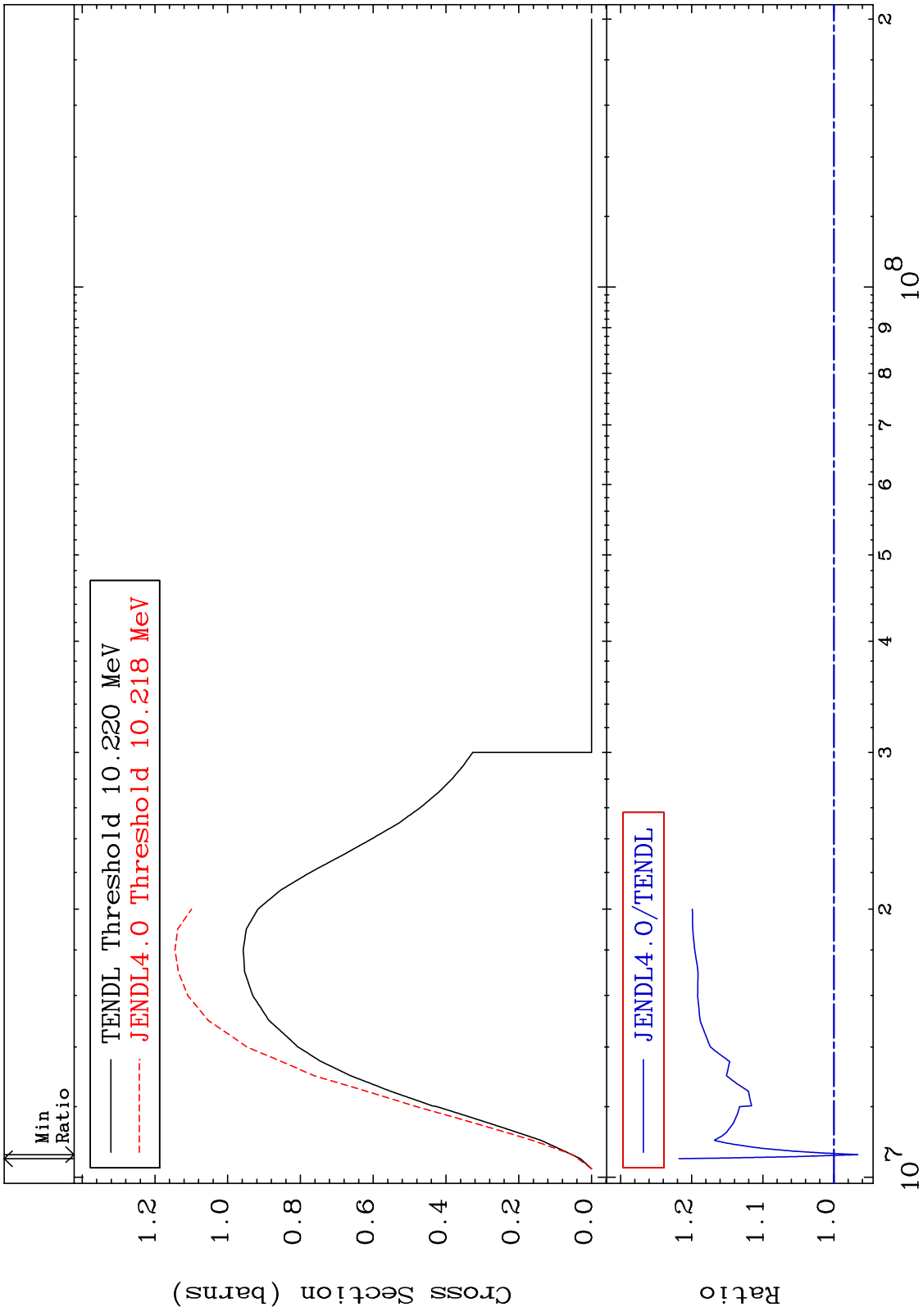
26-Fe-58

MAT 2637 26-Fe-58
Inelastic -97.82 To -5.535%
Cross Section



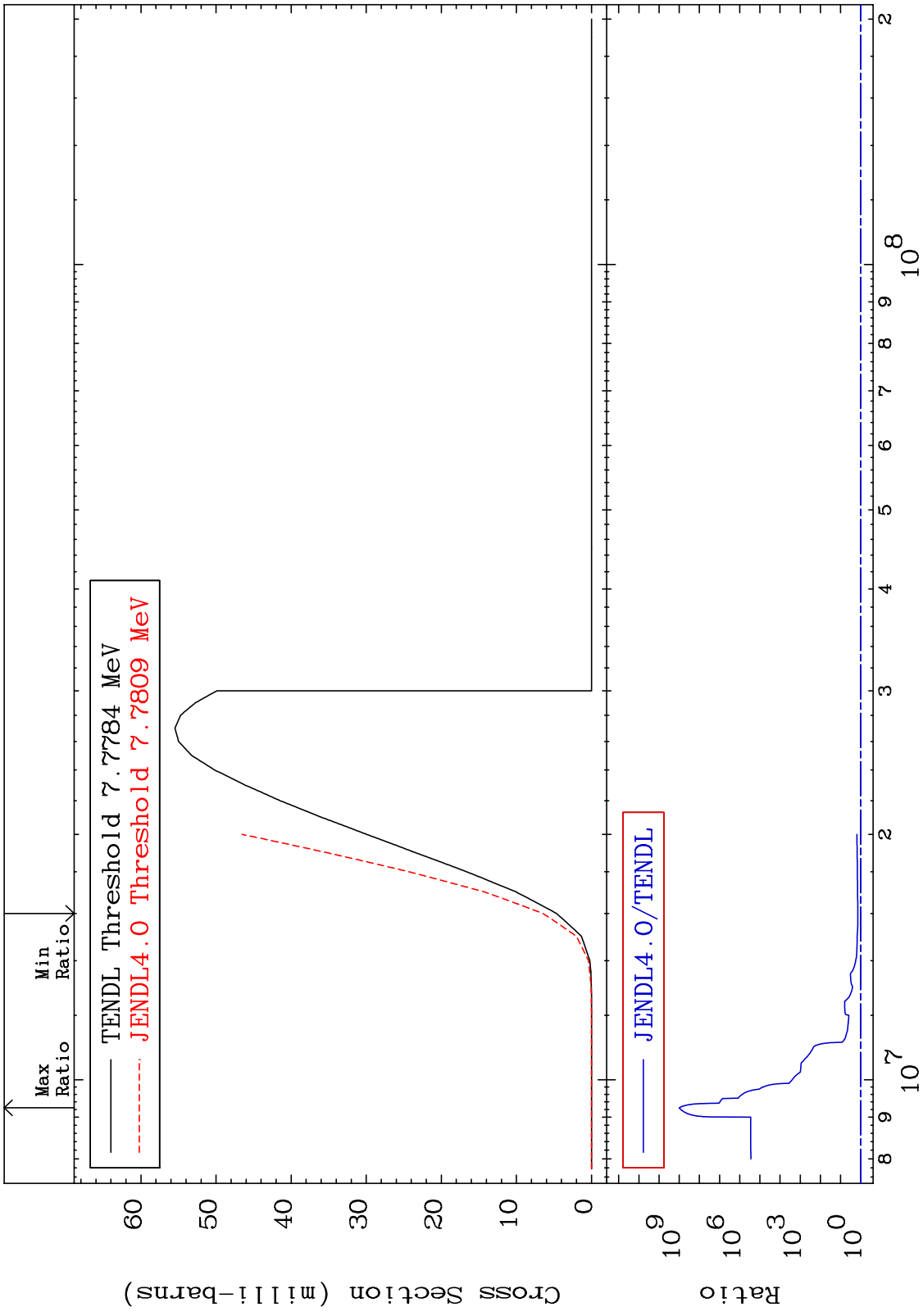
3 26-Fe-58

MAT 2637 (n,2n) Cross Section 26-Fe-58 -3.359 To 21.79 %



26-Fe-58

MAT 2637 $(n, n') \alpha$ Cross Section 26-Fe-58 38.93 To 9999. %

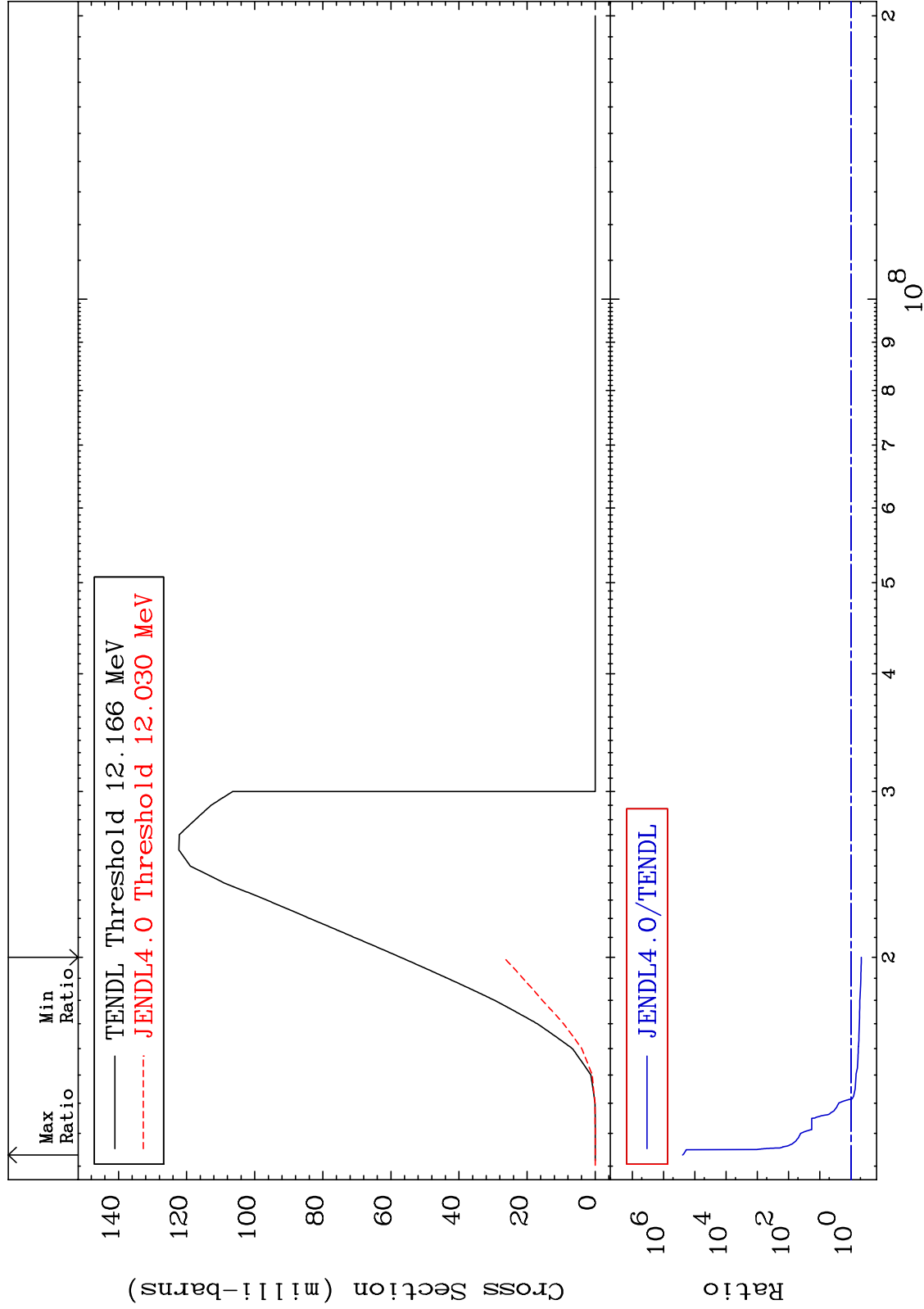


5 Incident Energy (eV) 26-Fe-58

MAT 2637

(n,n') p
Cross Section

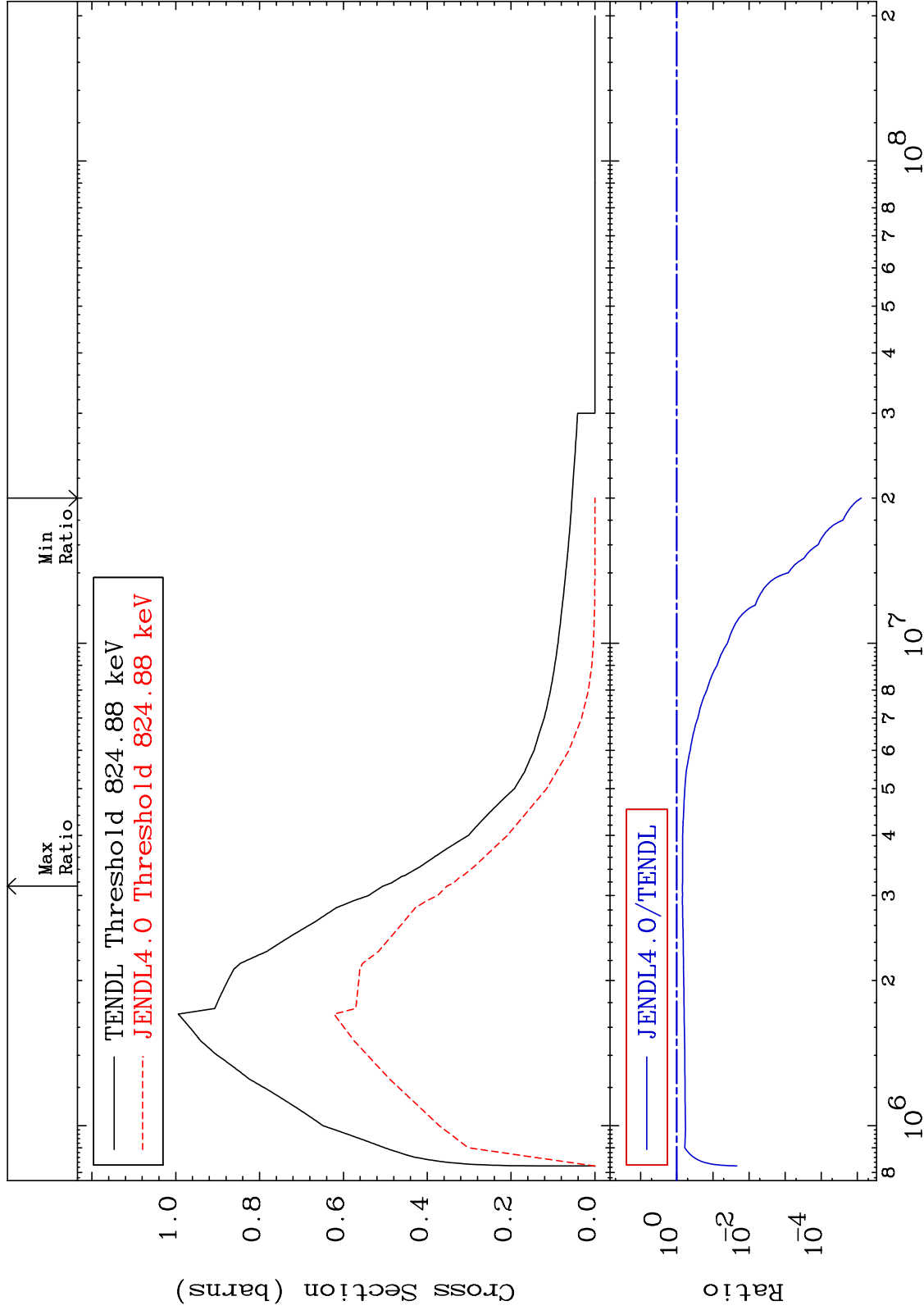
26-Fe-58
-53.00 To 9999. %



MAT 2637

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

26-Fe-58
-100.0 To -30.27%

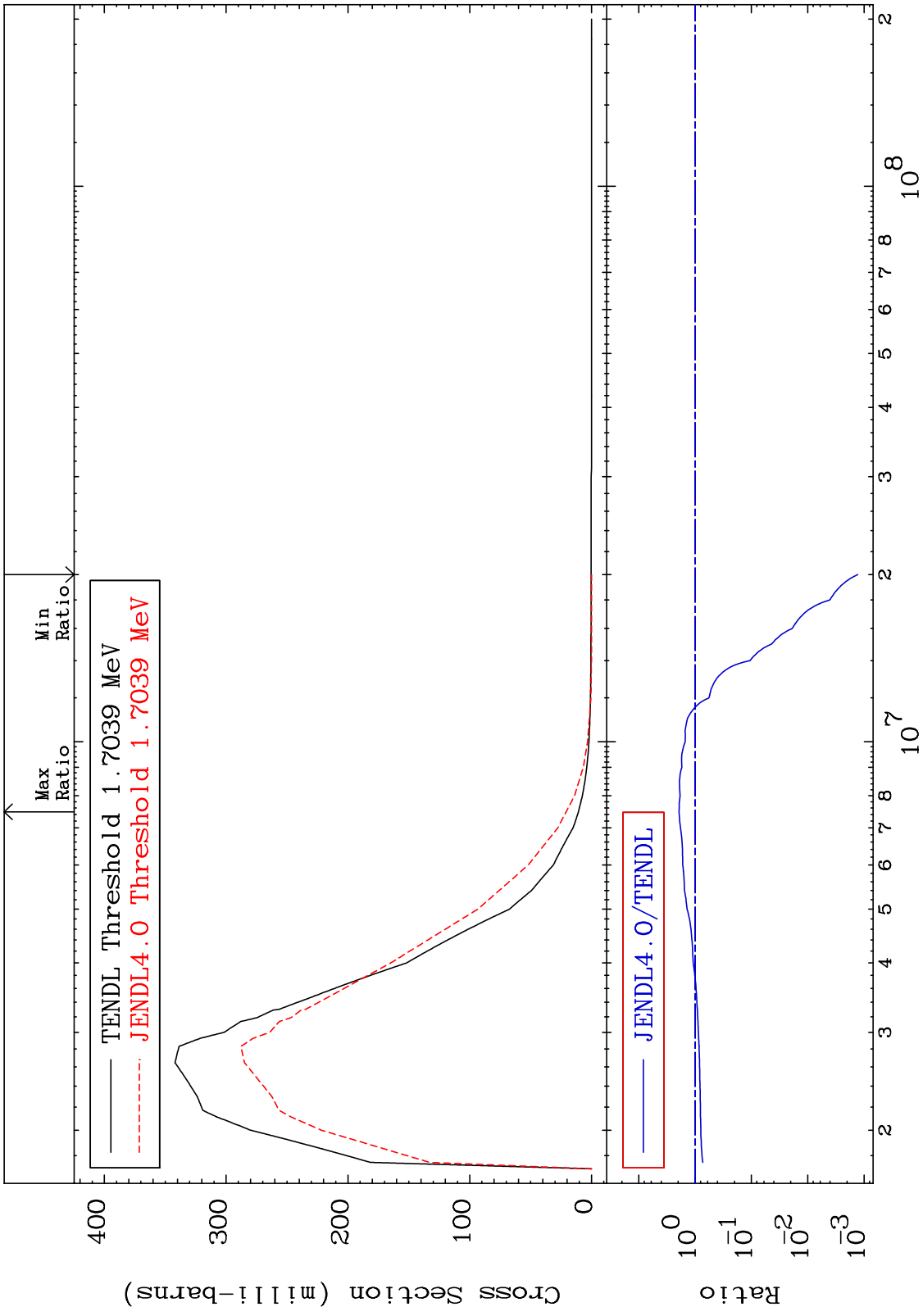


7

Incident Energy (eV)

26-Fe-58

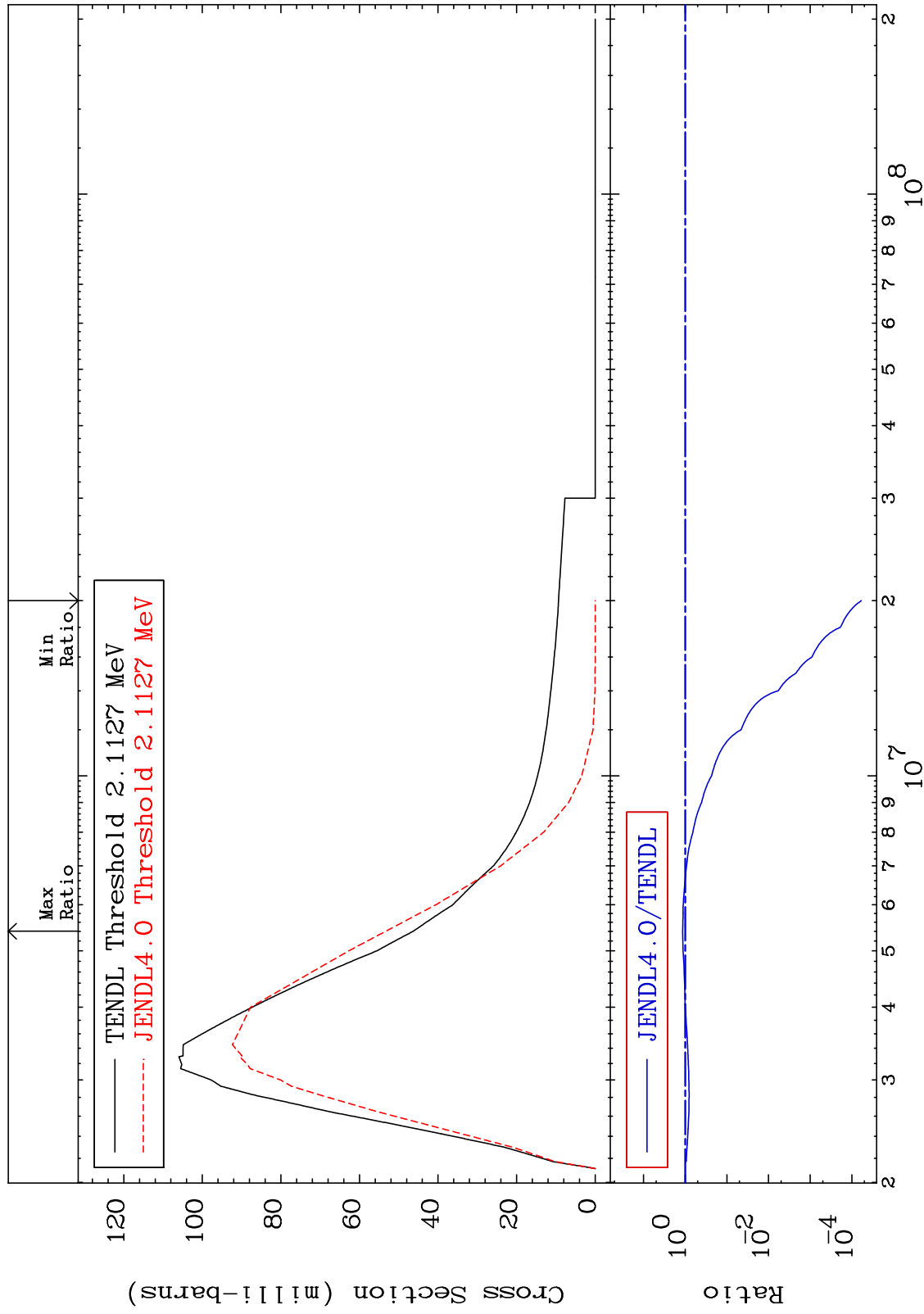
MAT 2637 MT= 52 (n,n') Level Cross Section 26-Fe-58
 -99.87 To 92.77 %



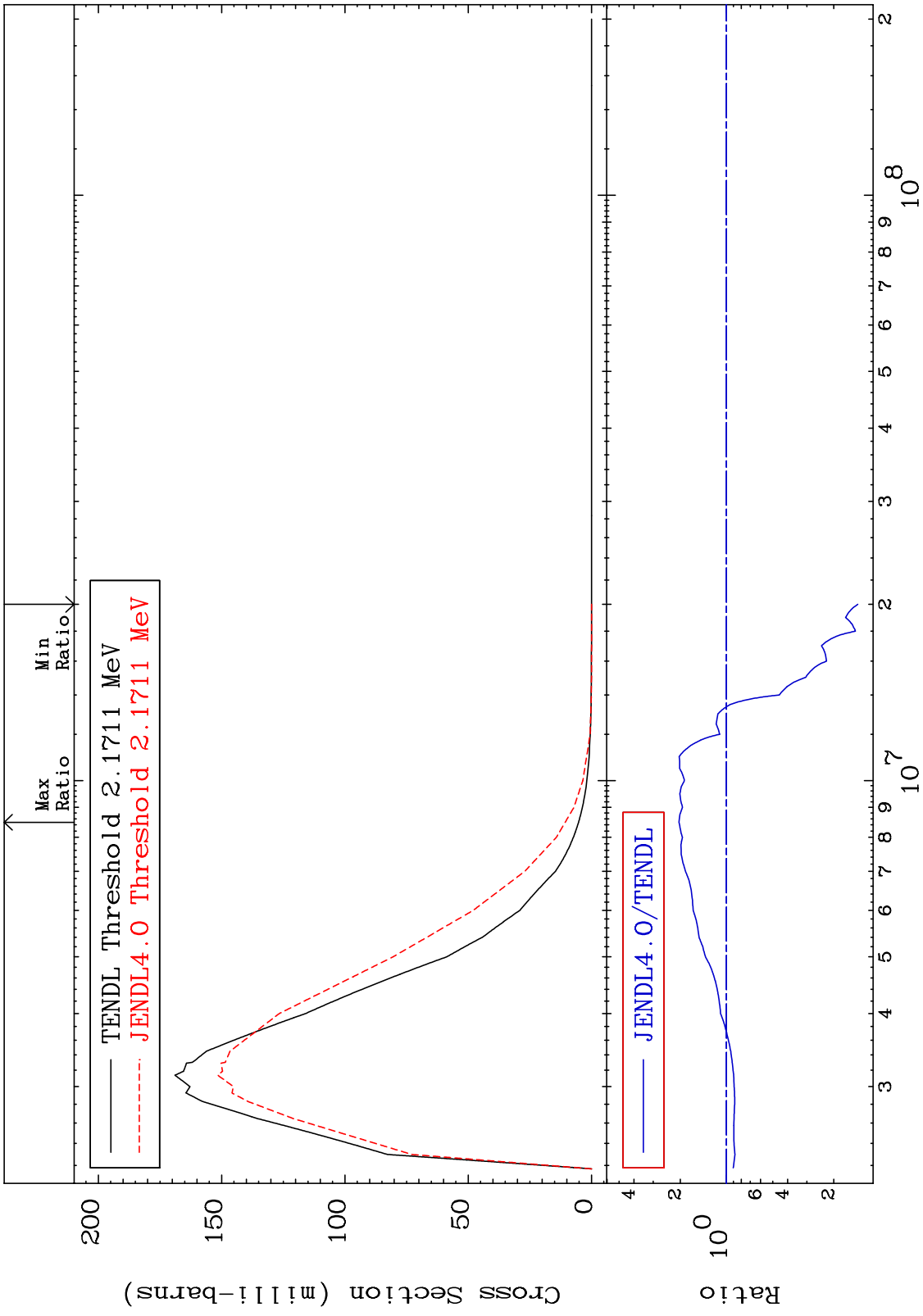
MAT 2637

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

26-Fe-58
-99.99 To 15.11 %

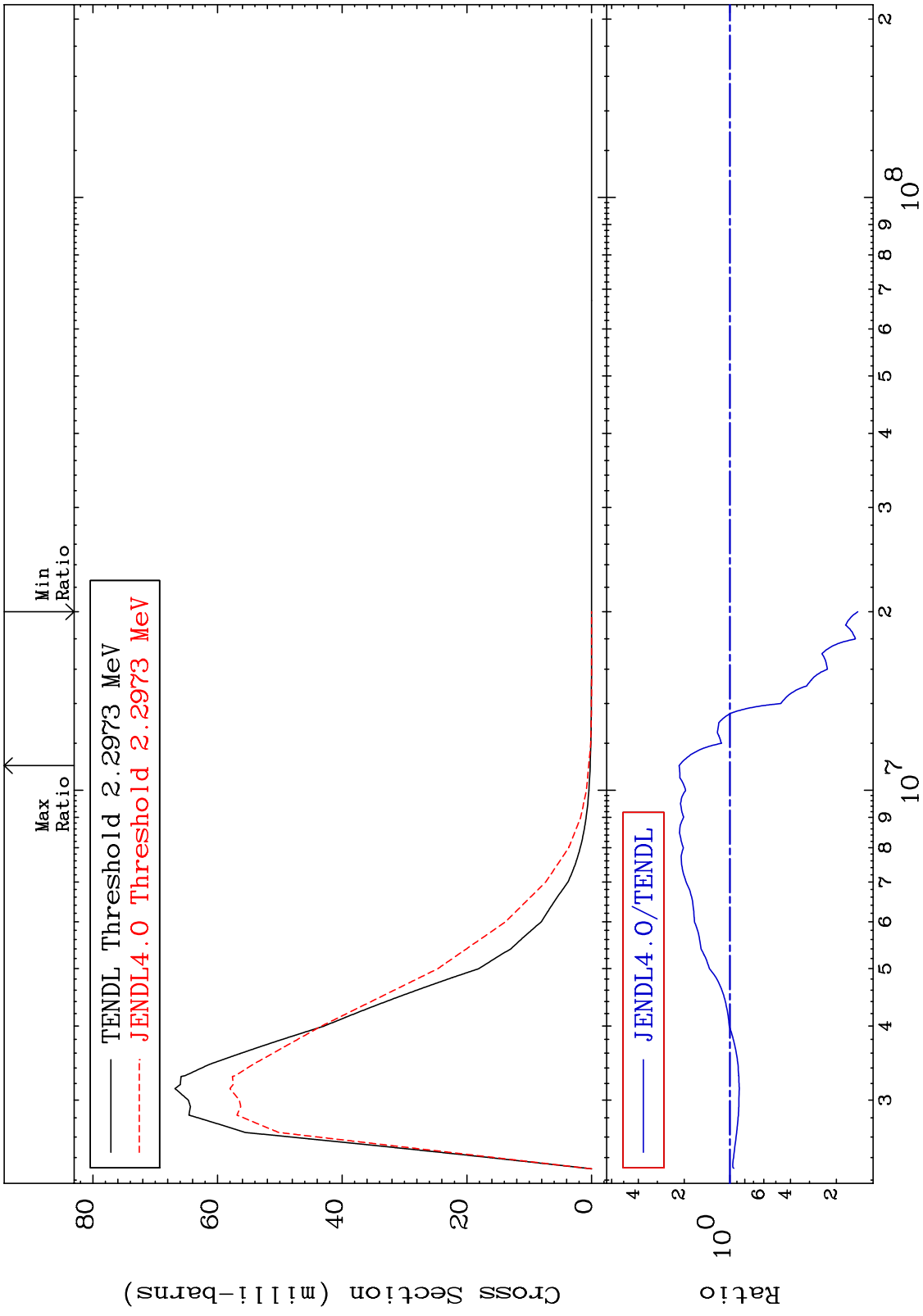


MAT 2637 MT= 54 (n,n') Level Cross Section 26-Fe-58 -86.06 To 103.6 %



10 Incident Energy (eV) 26-Fe-58

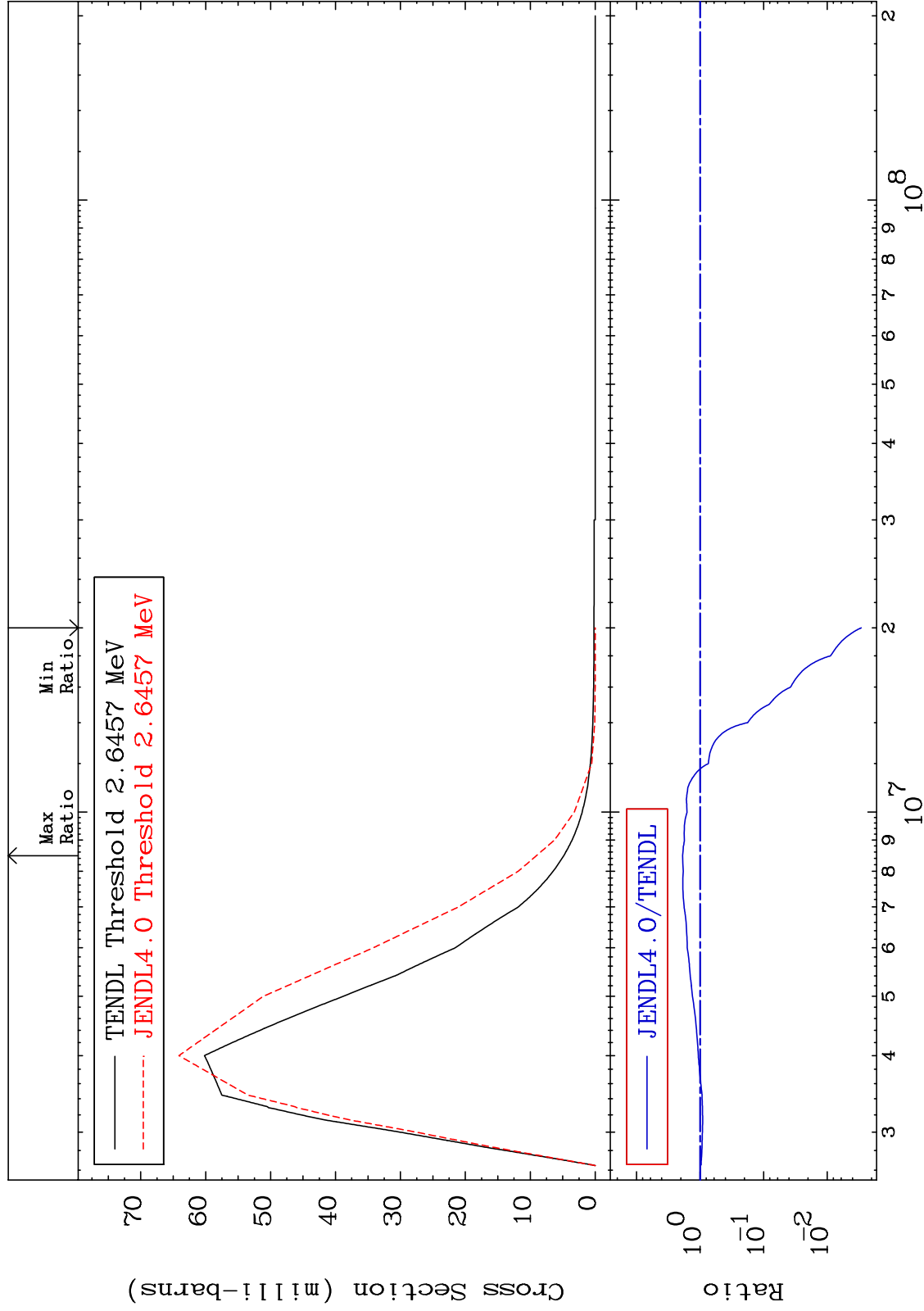
MAT 2637 MT= 55 (n,n') Level Cross Section -85.57 To 116.1 % 26-Fe-58



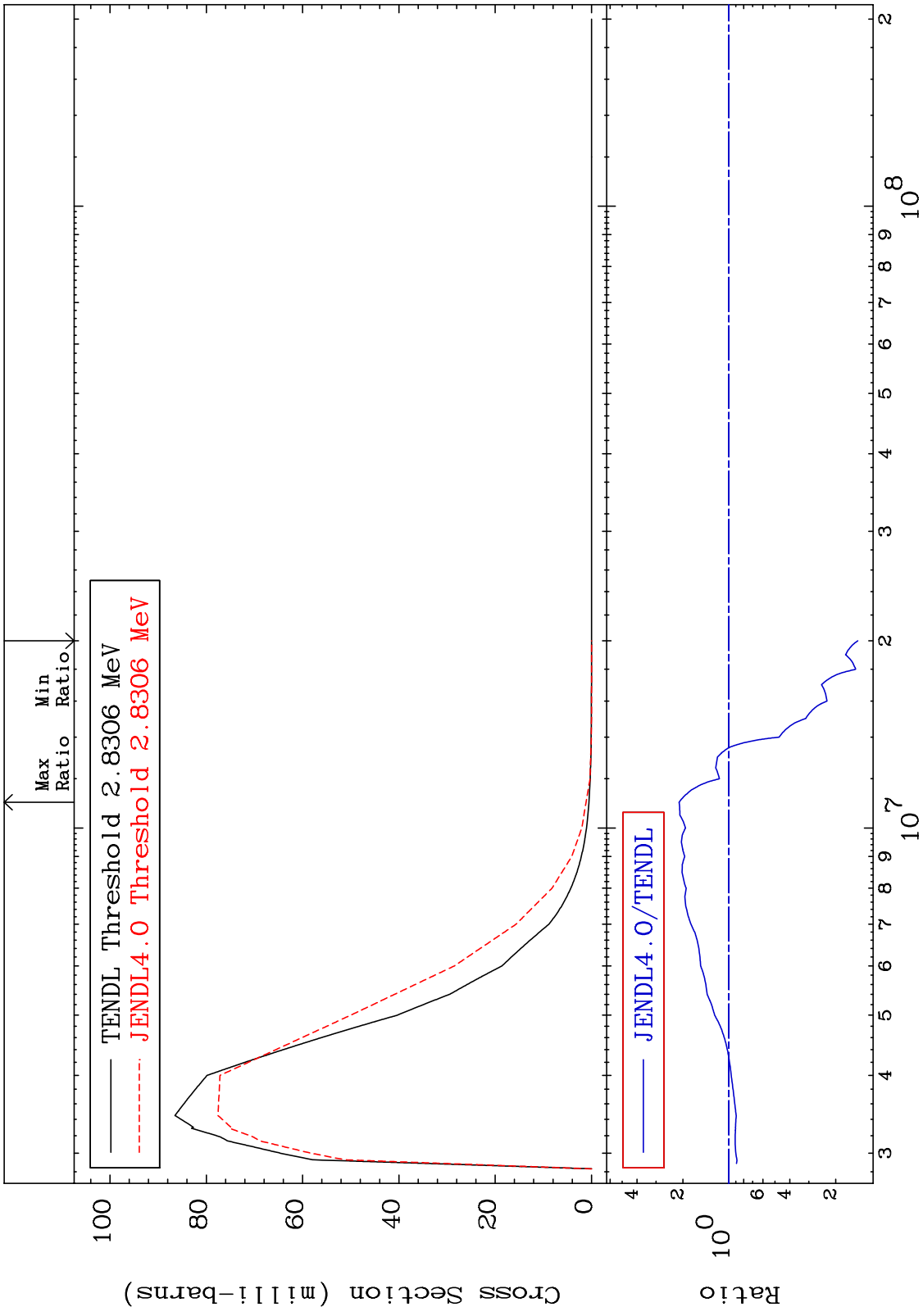
MAT 2637

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

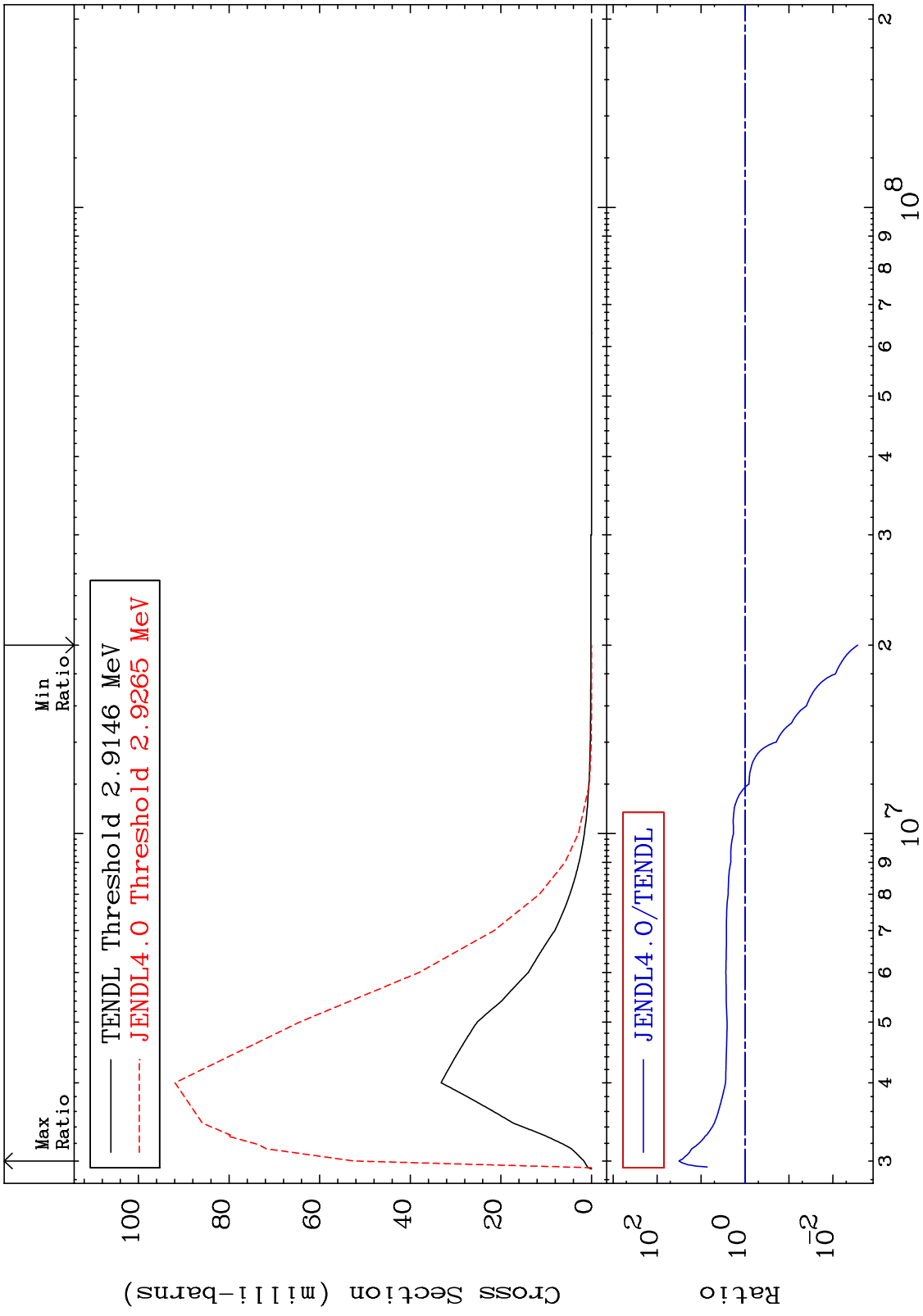
26-Fe-58
-99.71 To 87.41 %



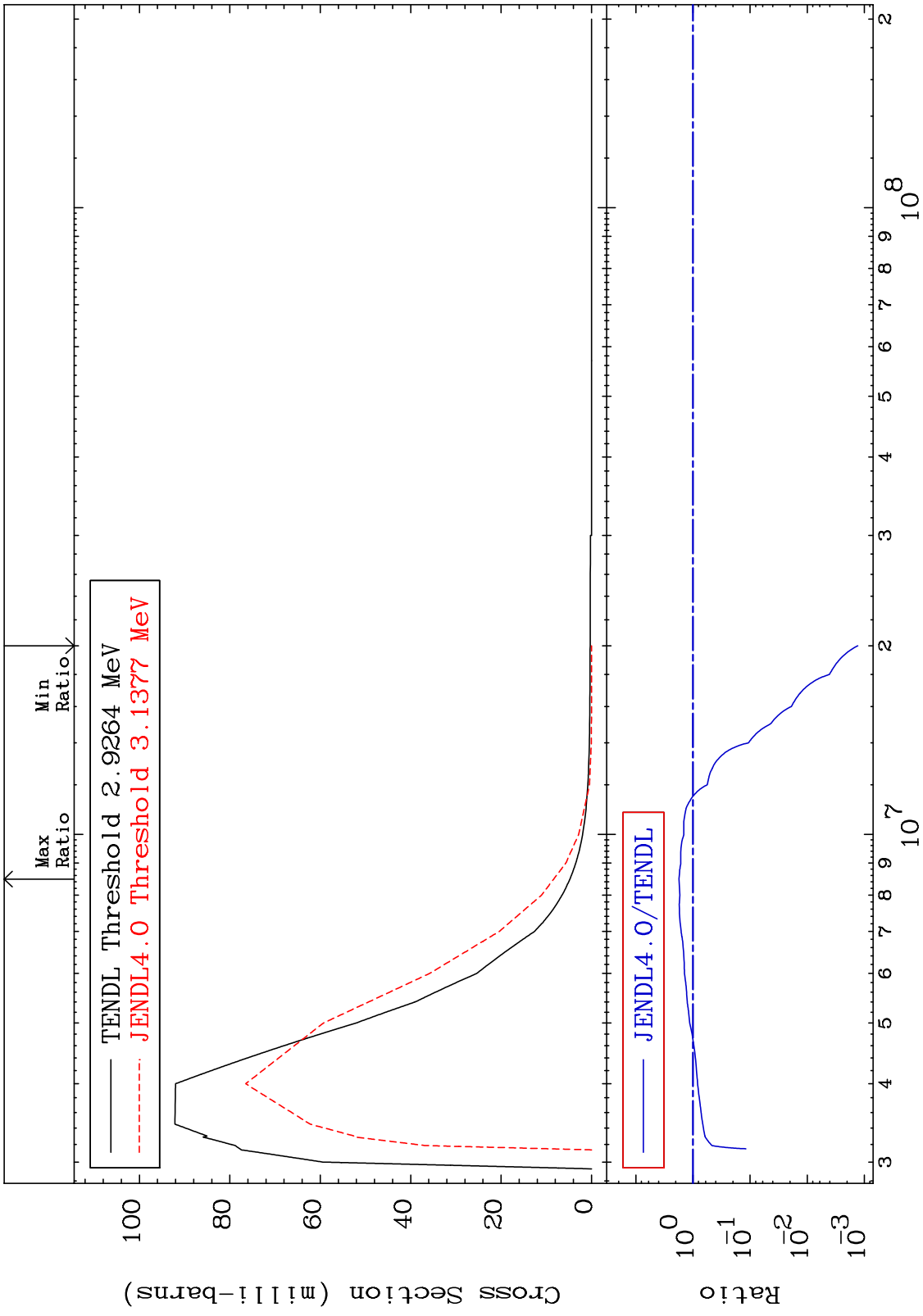
MAT 2637 MT= 57 (n,n') Level Cross Section -85.67 To 112.0 % 26-Fe-58



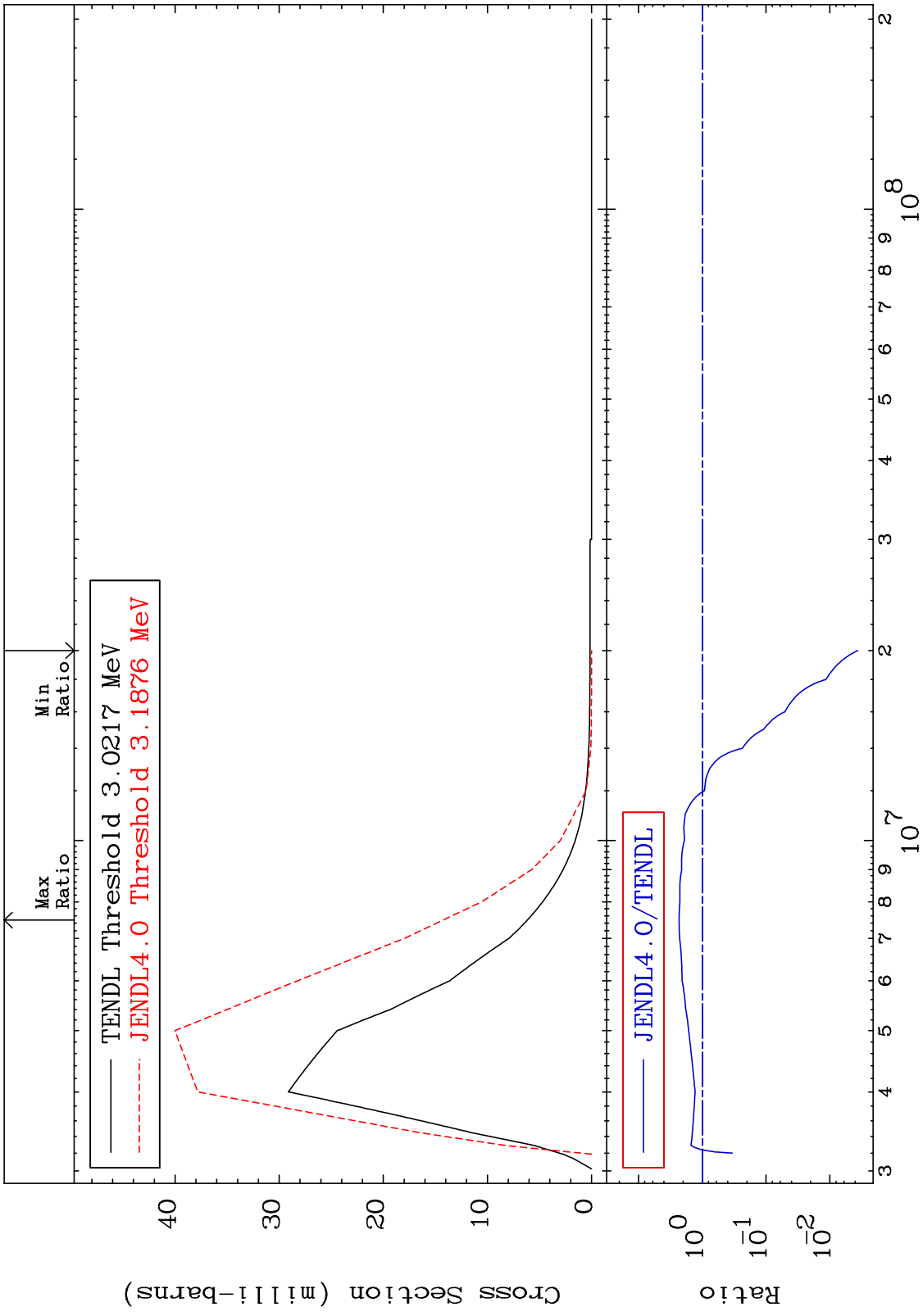
MAT 2637 MT= 58 (n,n') Level Cross Section 26-Fe-58 -99.73 To 3064. %



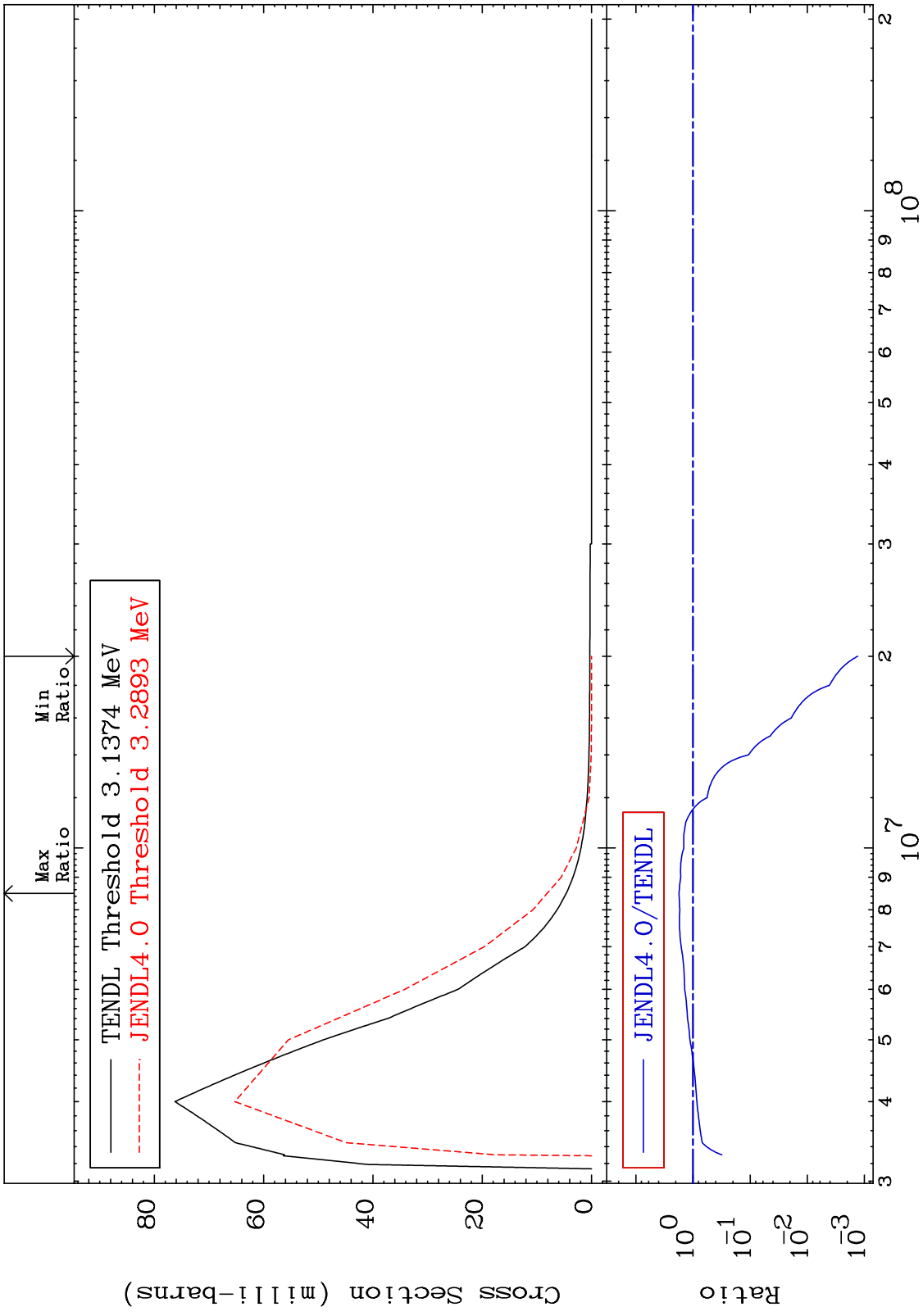
MAT 2637 MT= 59 (n,n') Level Cross Section 26-Fe-58 -99.87 To 75.33 %



MAT 2637 MT= 60 (n,n') Level Cross Section -99.64 To 131.6 % 26-Fe-58

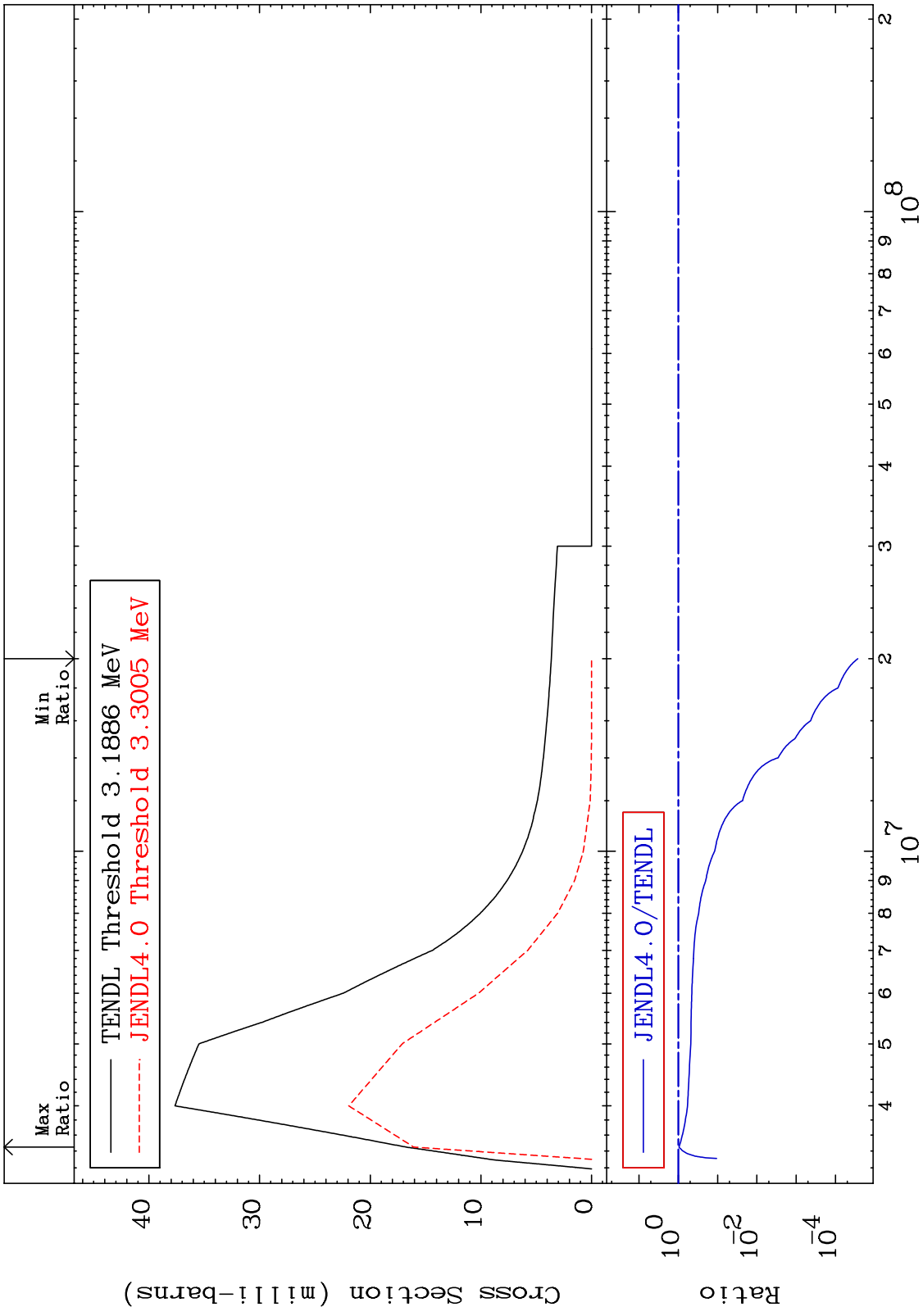


MAT 2637 MT= 61 (n,n') Level Cross Section 26-Fe-58 -99.87 To 75.47 %



17 26-Fe-58 Incident Energy (eV)

MAT 2637 MT= 62 (n,n') Level Cross Section 26-Fe-58
 -100.0 To -4.056%

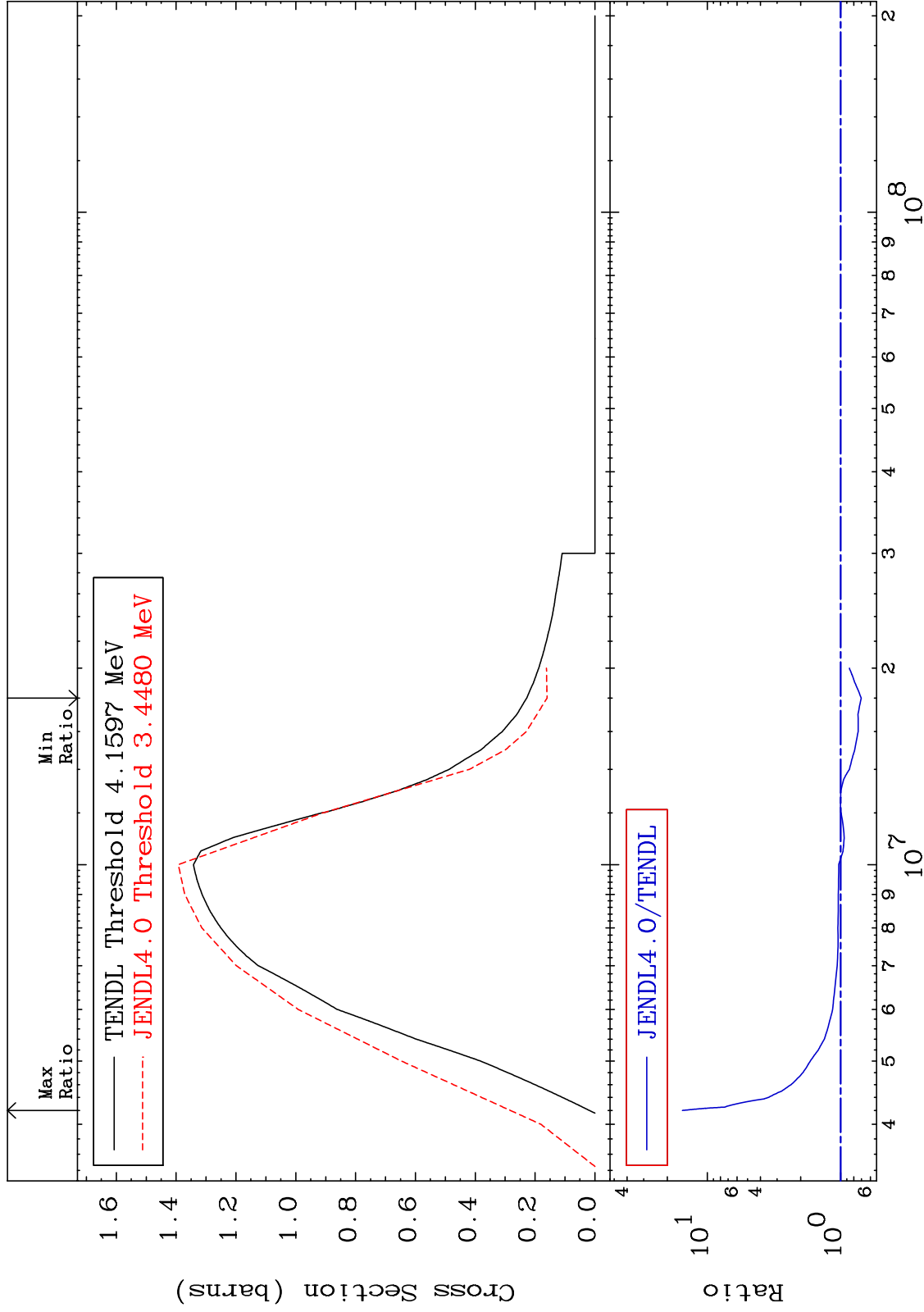


18 Incident Energy (eV) 26-Fe-58

MAT 2637

(n,n') Continuum
Cross Section

26-Fe-58
-29.81 To 1438. %



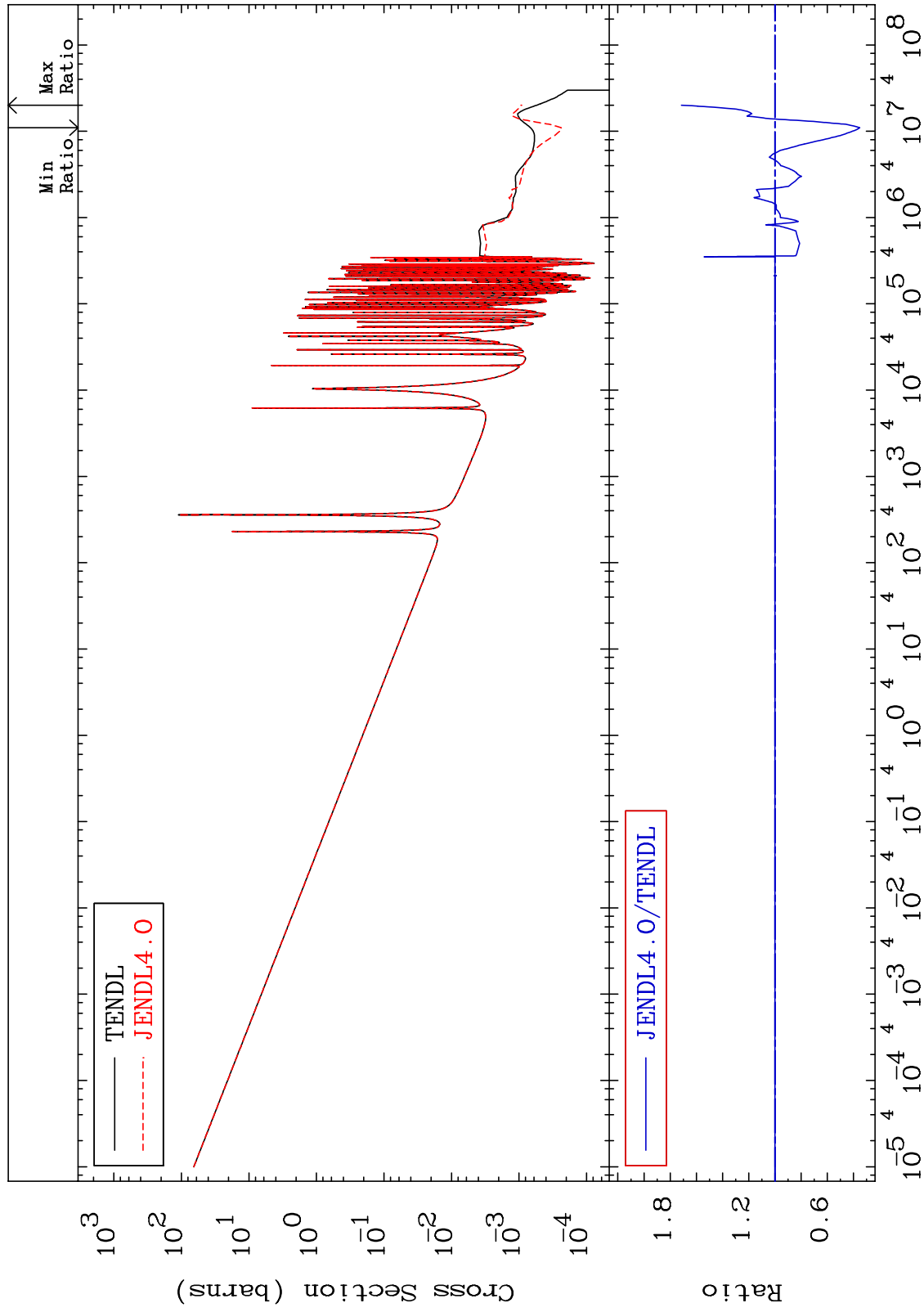
MAT 2637

(n, γ)

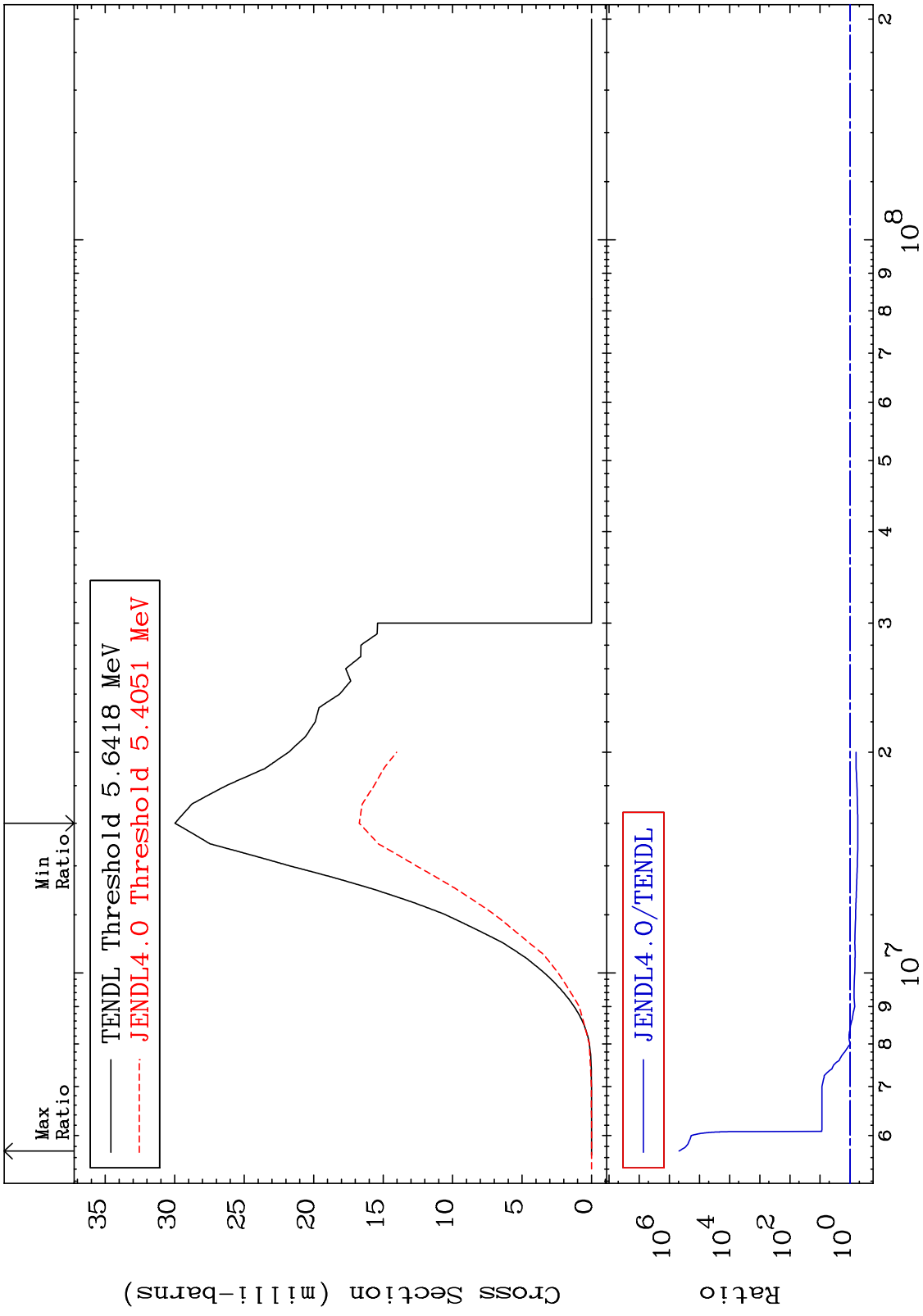
26-Fe-58

Cross Section

-64.89 To 71.38 %

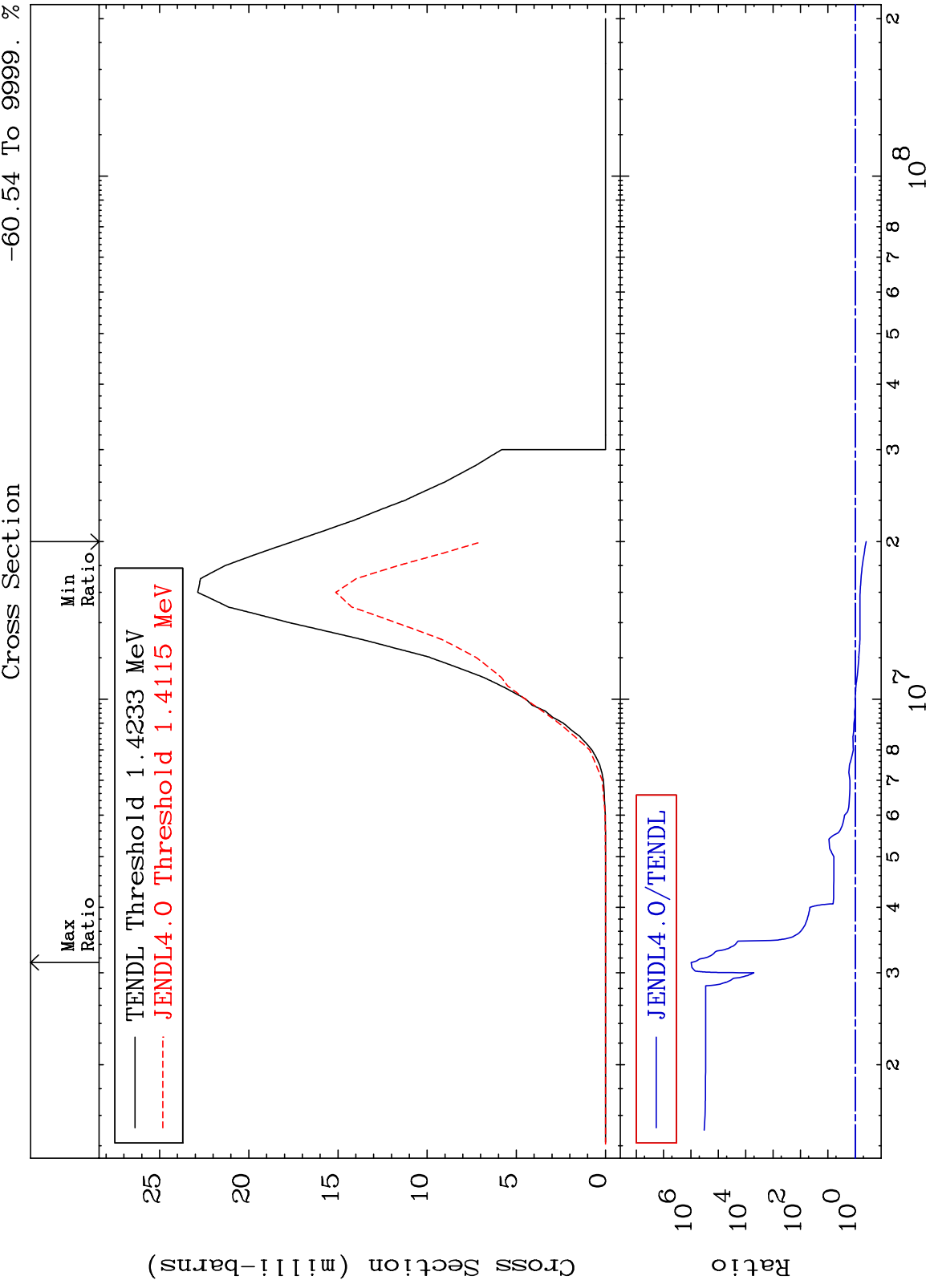


MAT 2637 (n,p) Cross Section 26-Fe-58
 -44.25 To 9999. %



21 Incident Energy (eV) 26-Fe-58

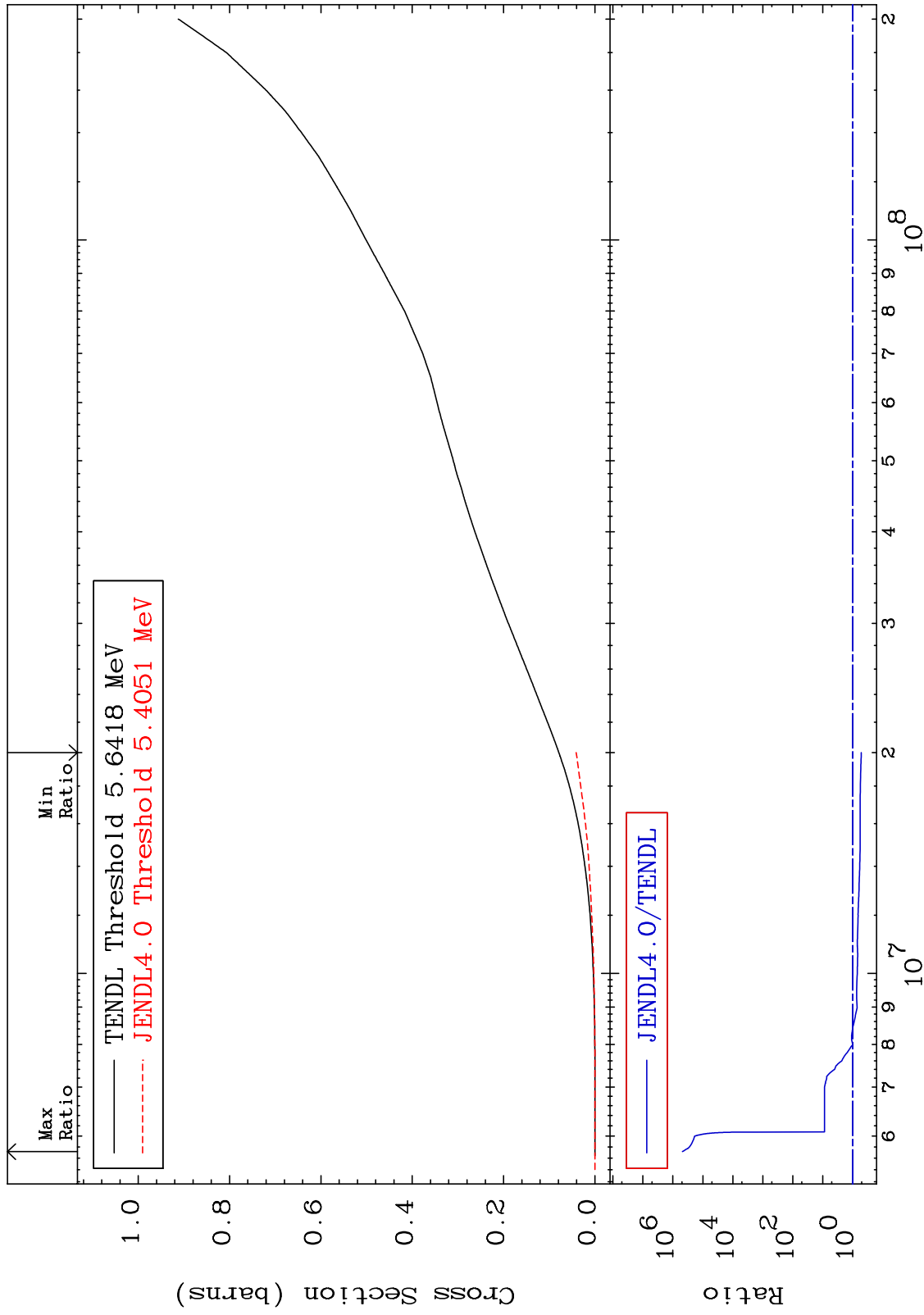
MAT 2637 (n, α) 26-Fe-58 -60.54 To 9999. %



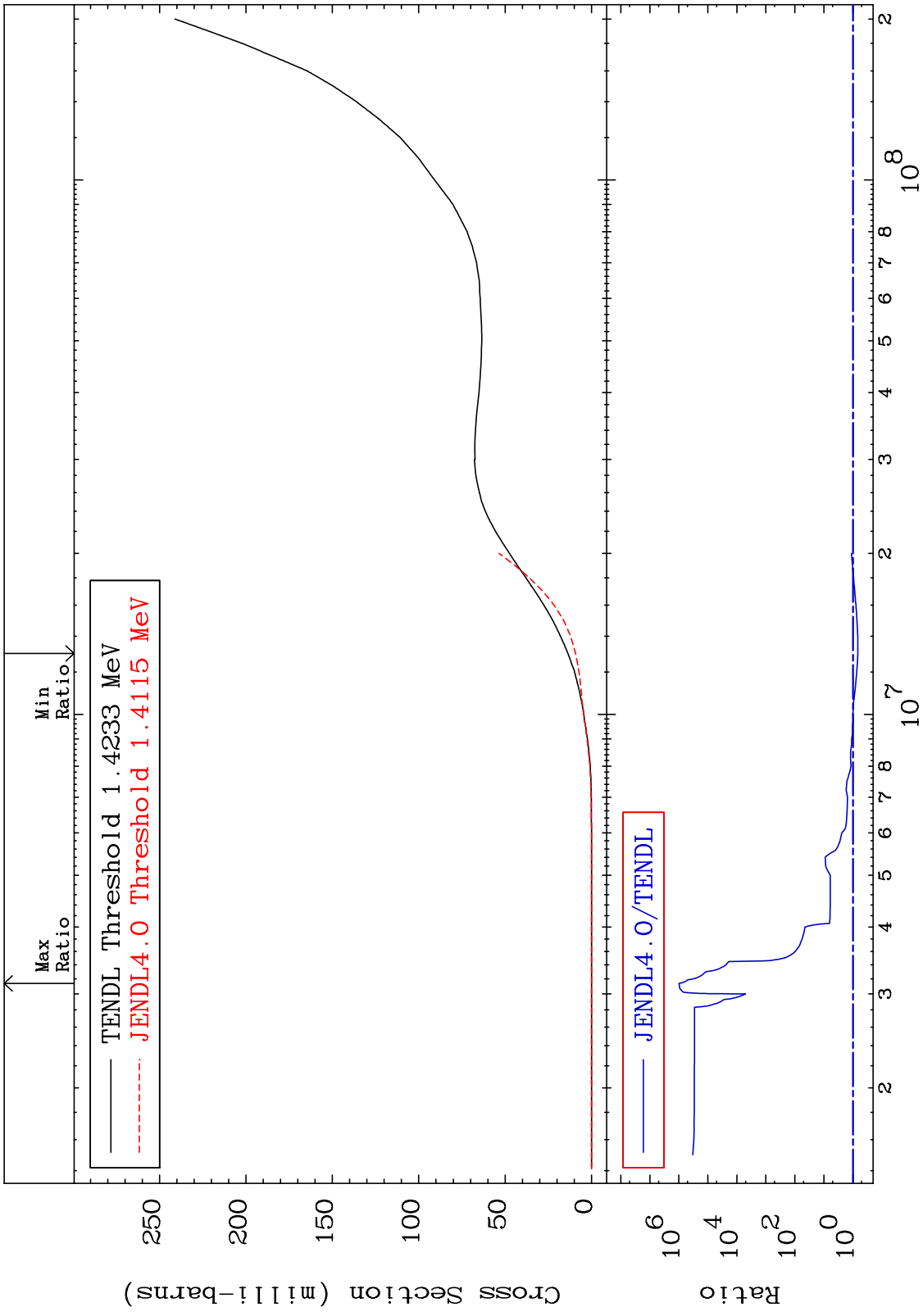
MAT 2637

Hydrogen Production
Cross Section

26-Fe-58
-48.21 To 9999. %



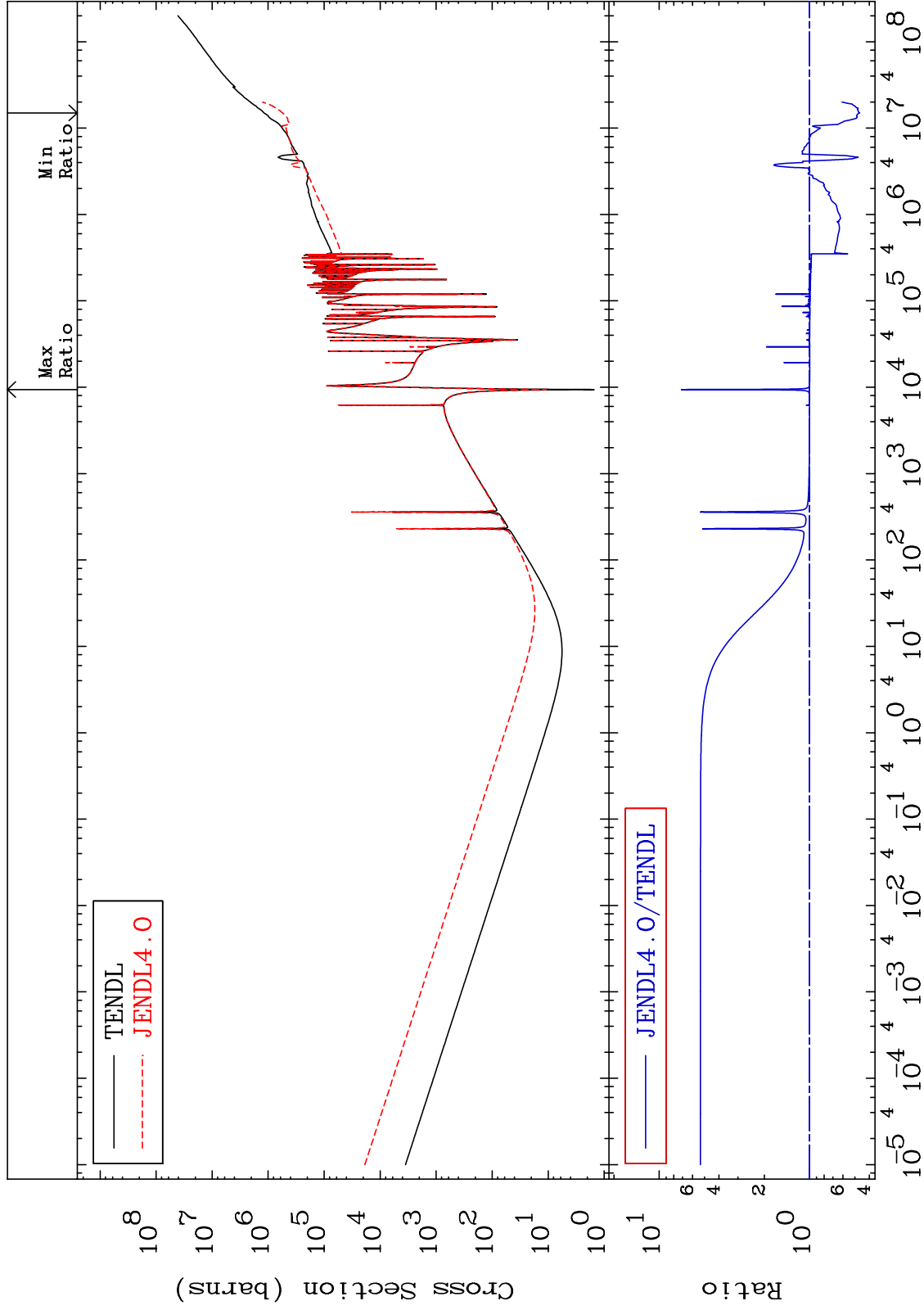
MAT 2637 He-4 Production Cross Section -32.52 To 9999. % 26-Fe-58



MAT 2637

Kerma total (eV-barns)
Cross Section

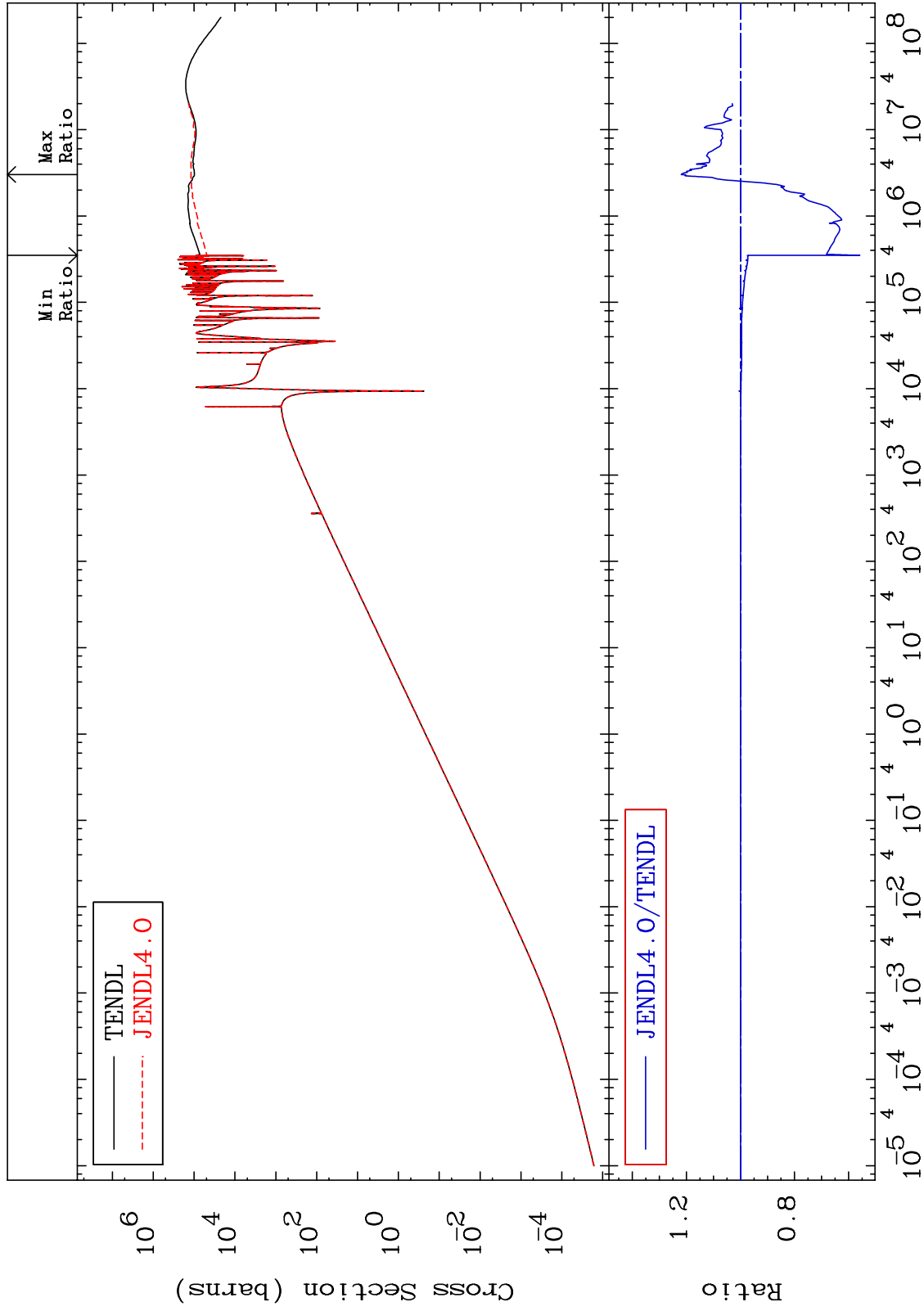
26-Fe-58
-53.63 To 613.6 %



MAT 2637

Kerma elastic
Cross Section

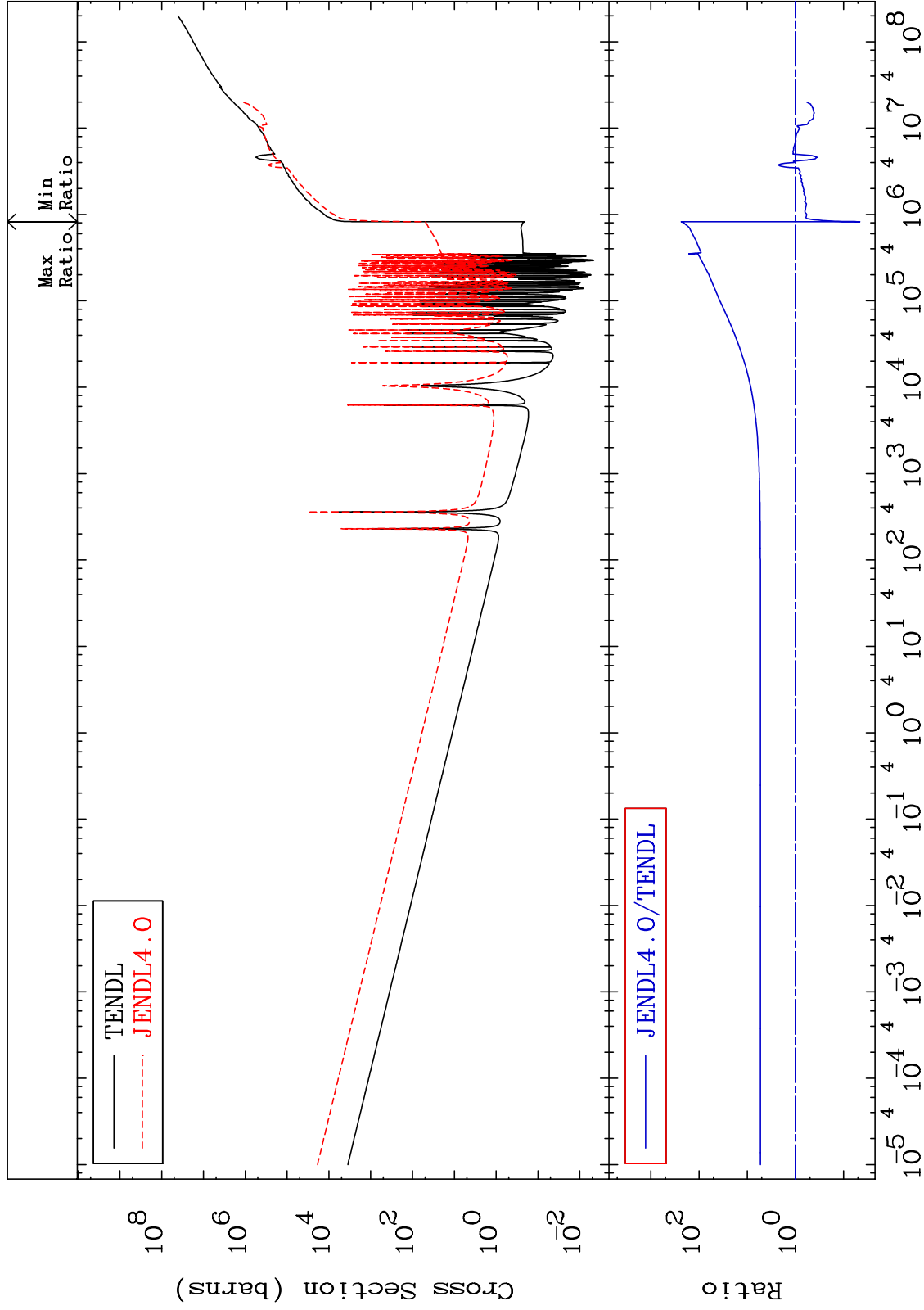
26-Fe-58
-44.13 To 21.92 %

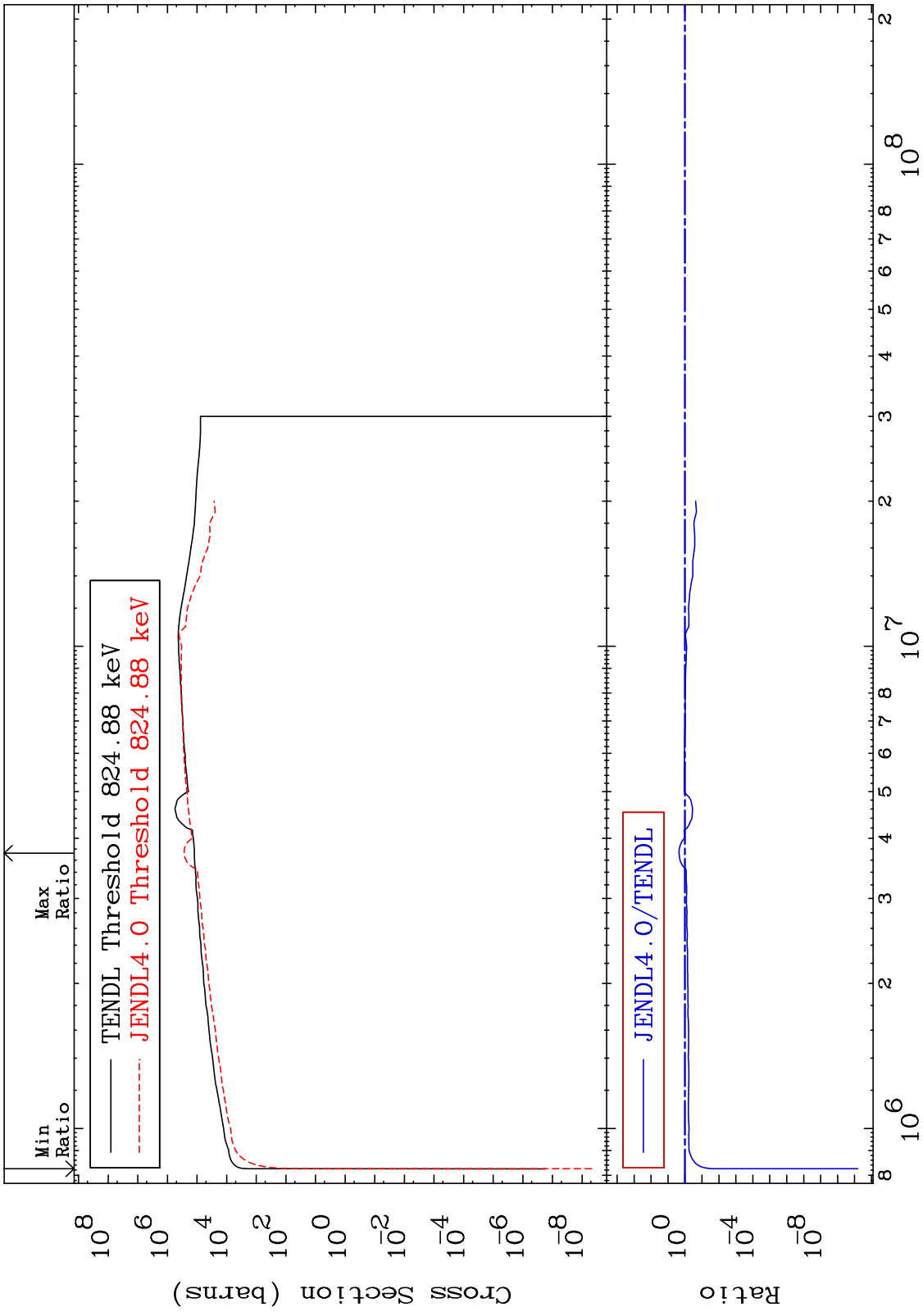


MAT 2637

Kerma non-elastic (all but mt2)
Cross Section

26-Fe-58
-95.41 To 9999. %

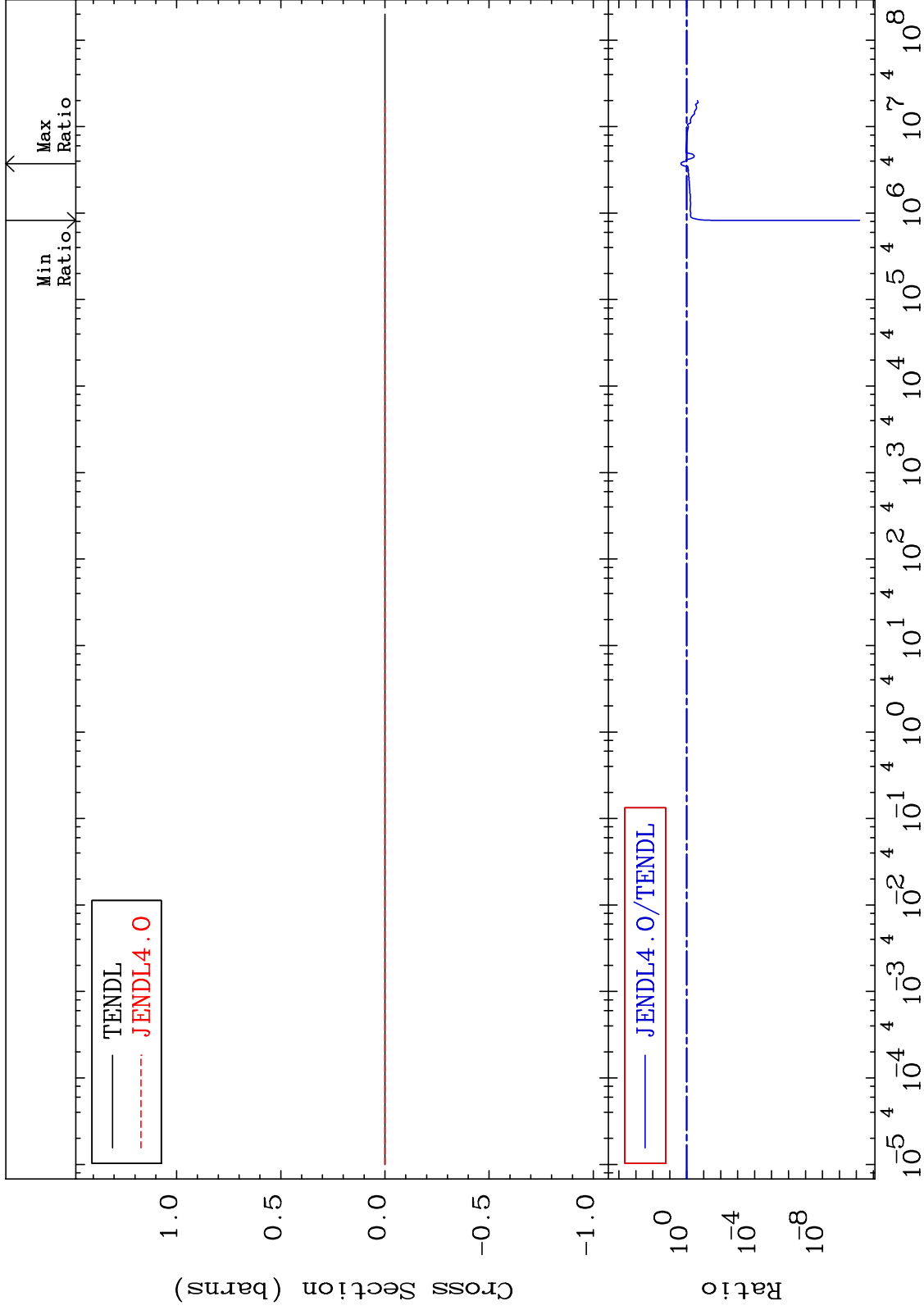




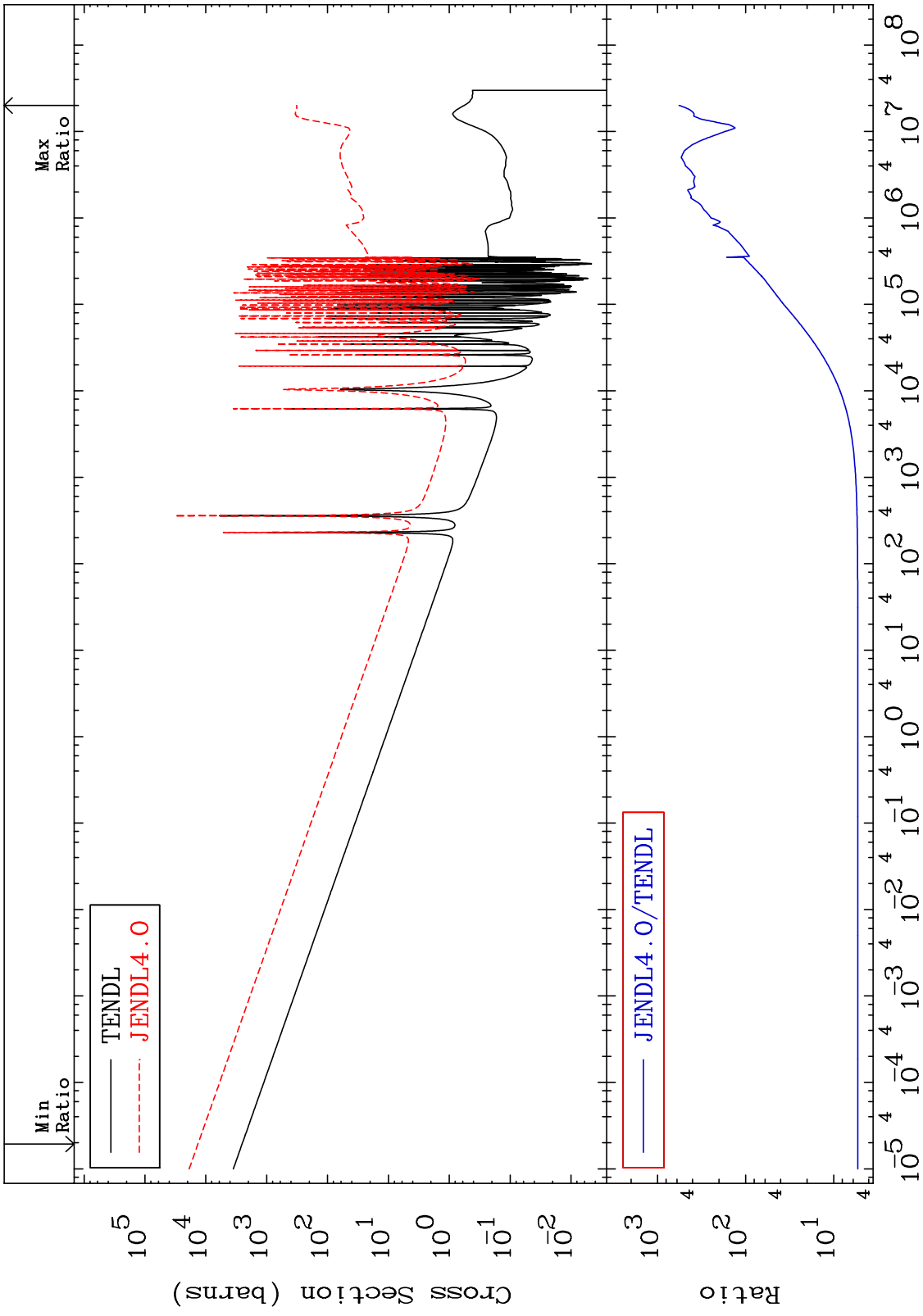
MAT 2637

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

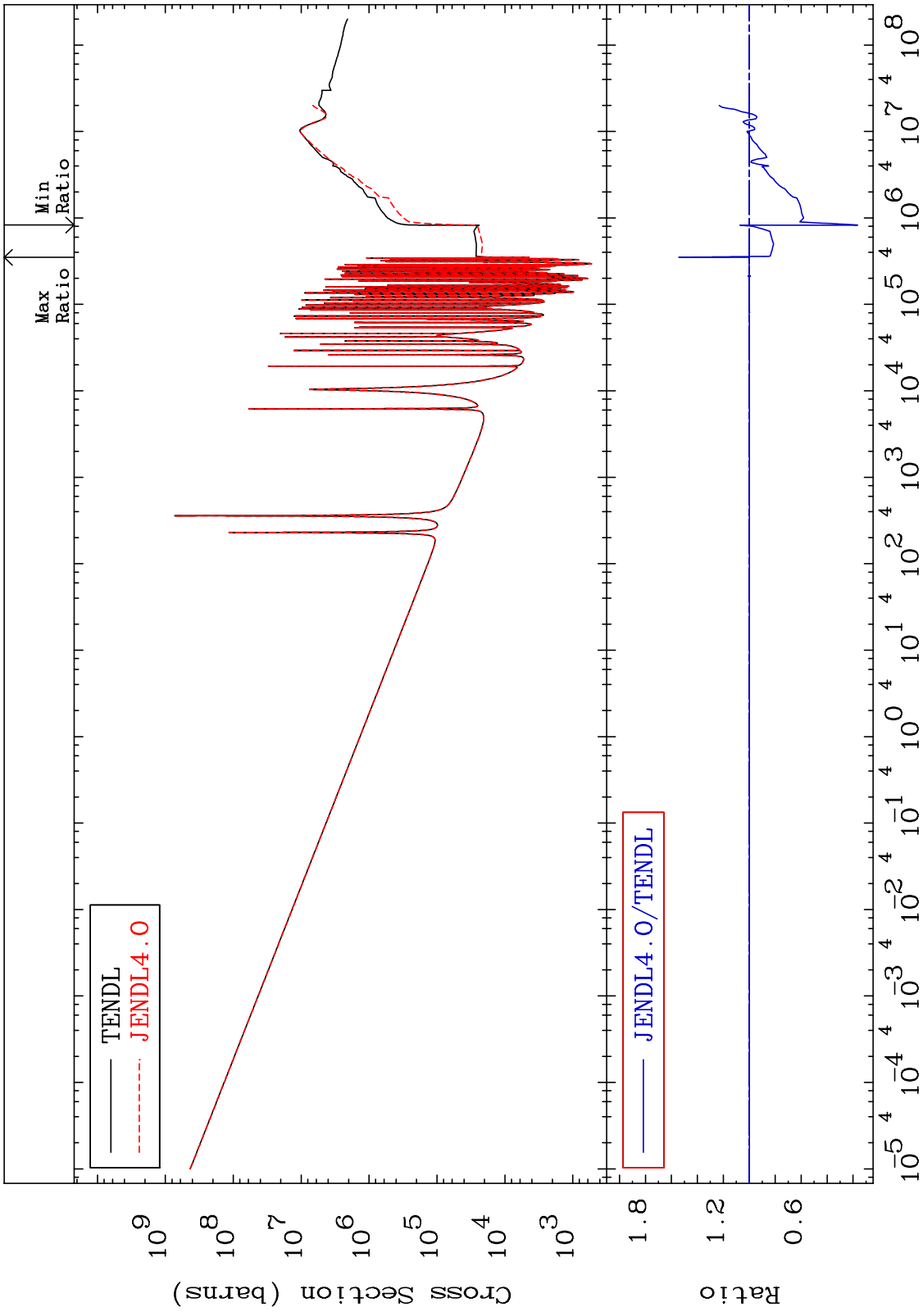
26-Fe-58
-100.0 To 123.4 %



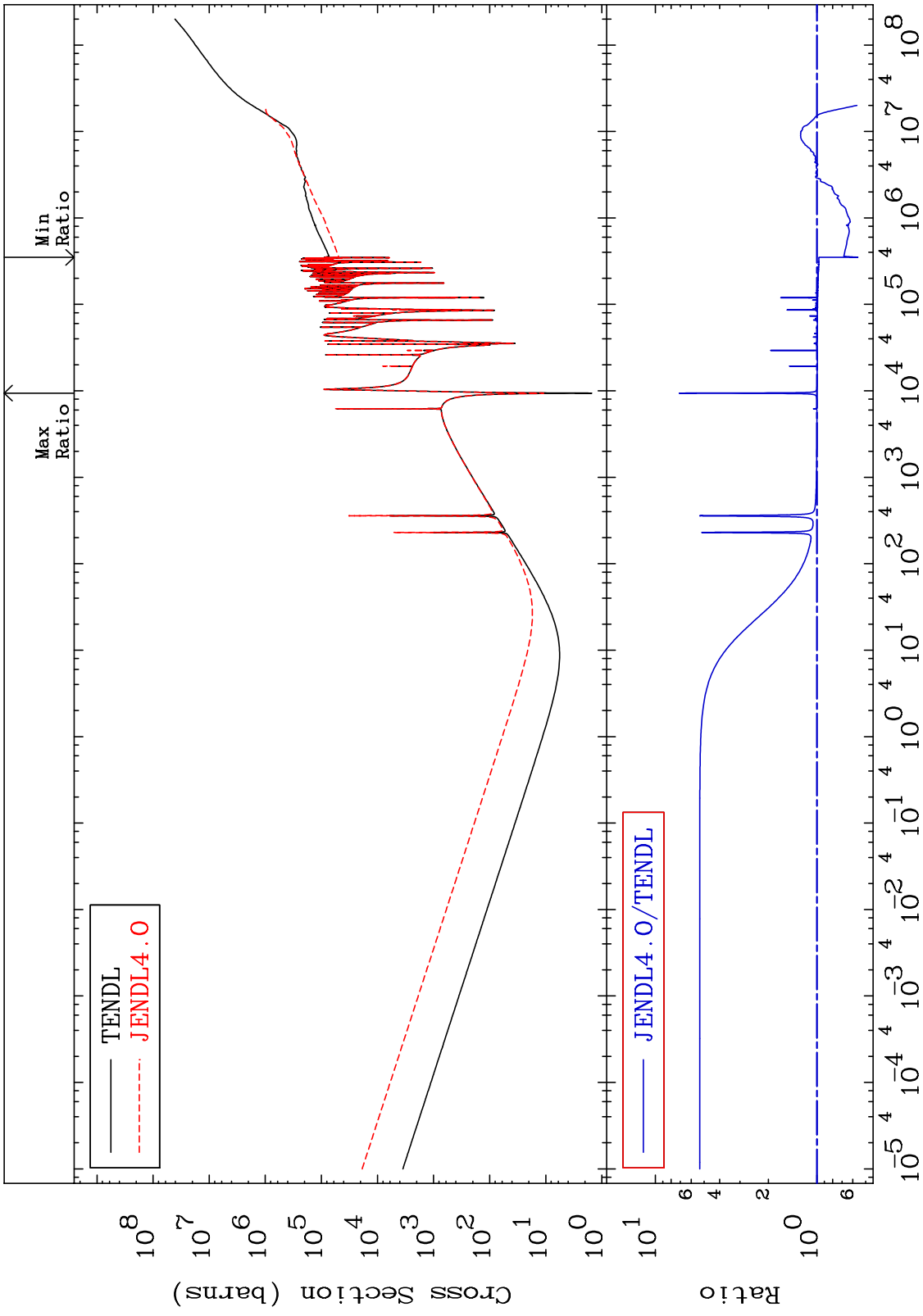
MAT 2637 Kerma capture (mt102) 26-Fe-58
 Cross Section 431.5 To 9999. %



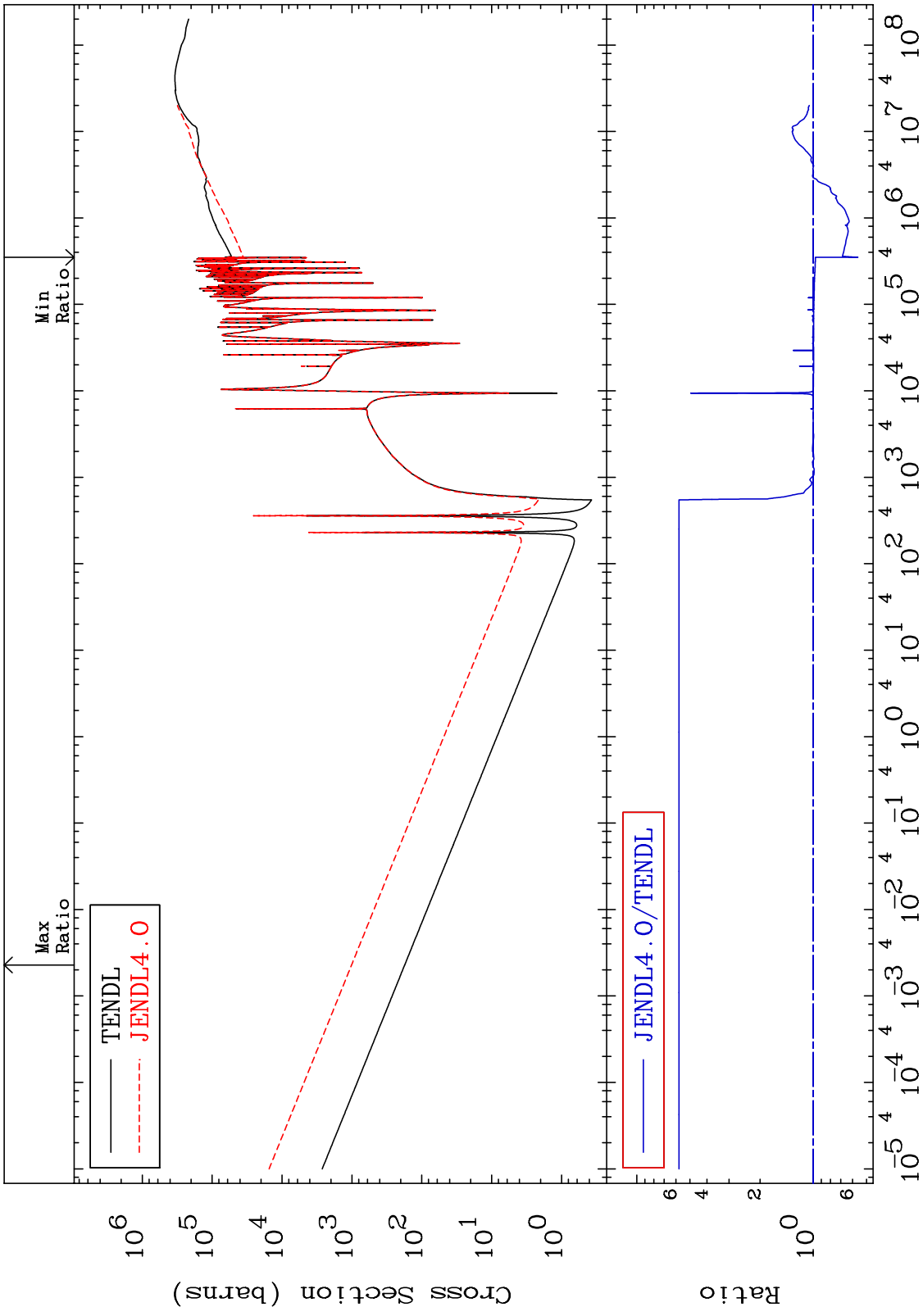
MAT 2637 Total photon (eV-barns) Cross Section 26-Fe-58
-83.69 To 54.13 %



MAT 2637 Total kinematic kerma (high limit) 26-Fe-58
 Cross Section -44.11 To 613.6 %



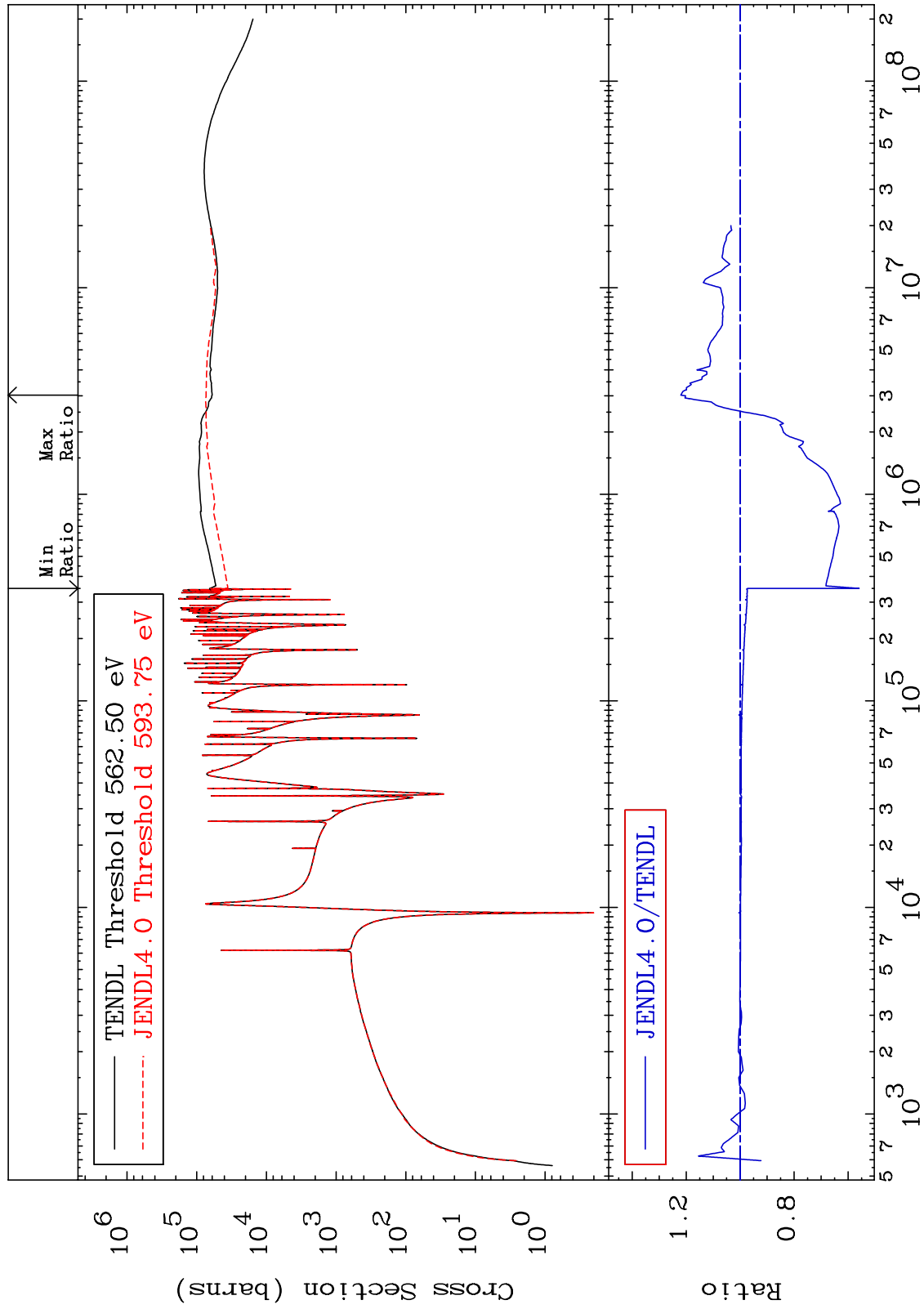
MAT 2637 Dpa total (eV-barns) 26-Fe-58
 -44.07 To 475.7 %



MAT 2637

Dpa elastic (mt2)
Cross Section

26-Fe-58
-44.07 To 21.96 %



34

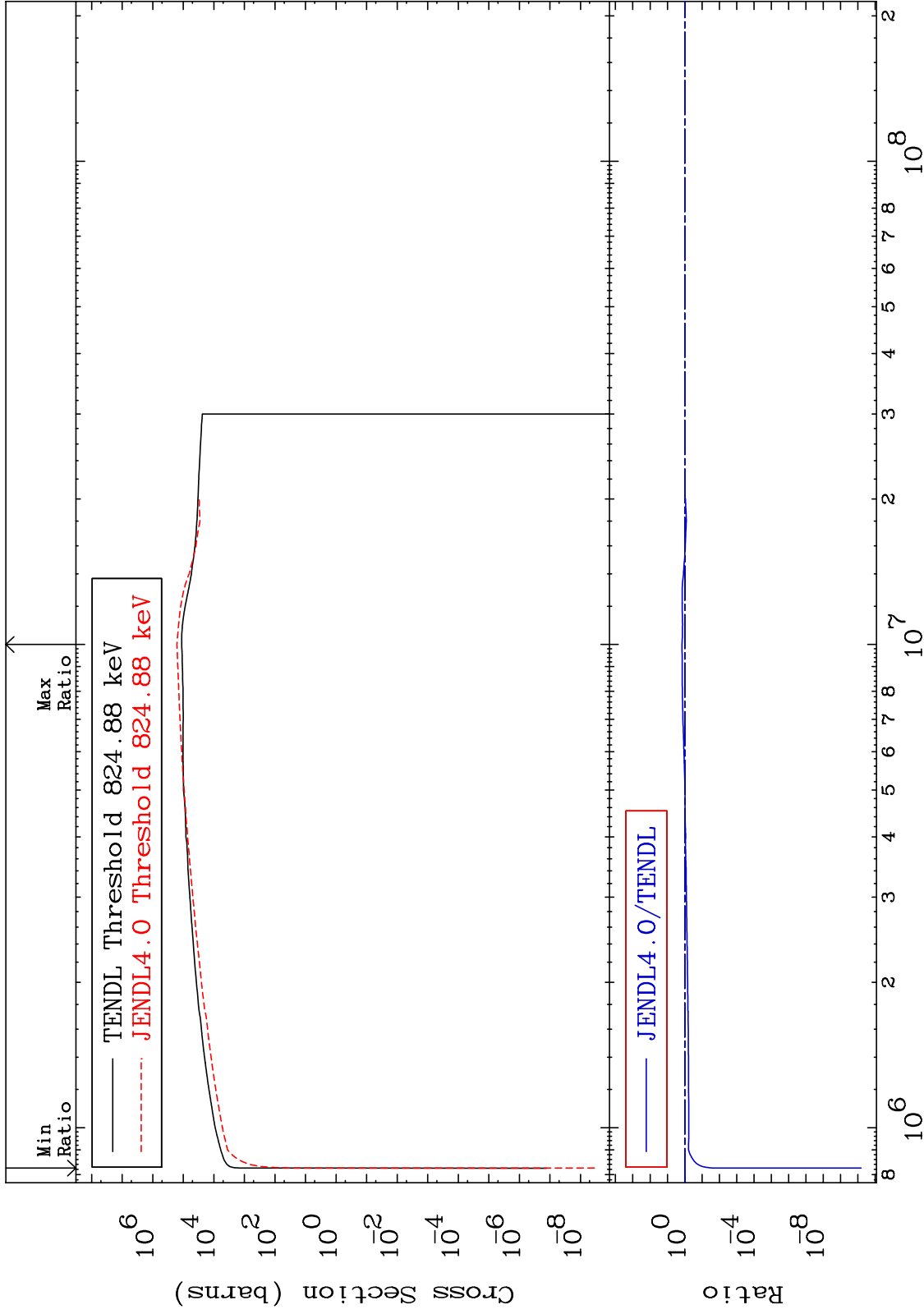
Incident Energy (eV)

26-Fe-58

MAT 2637

Dpa inelastic (mt51-91)
Cross Section

26-Fe-58
-100.0 To 43.07 %



35

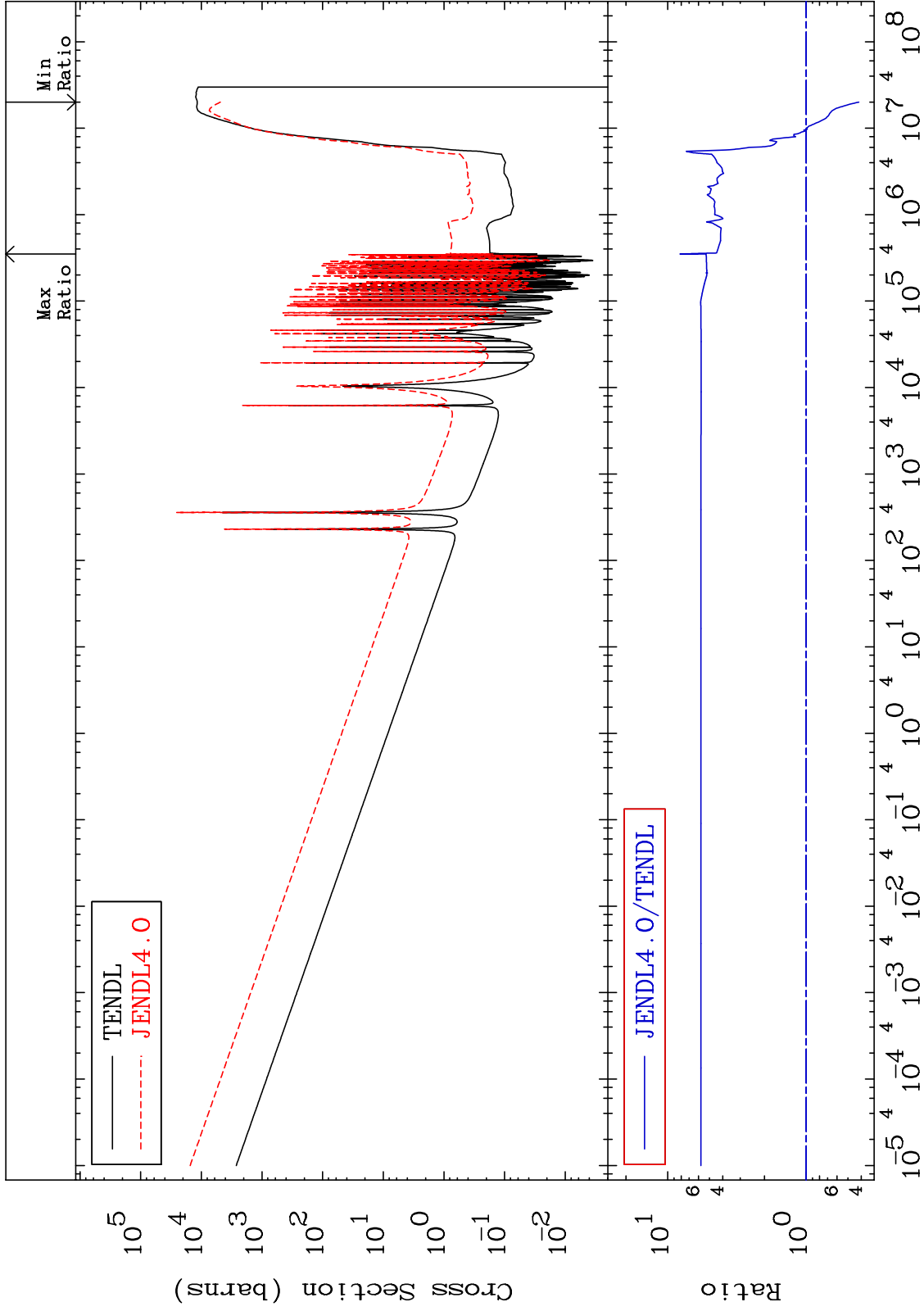
Incident Energy (eV)

26-Fe-58

MAT 2637

Dpa disappearance (mt102 -120)
Cross Section

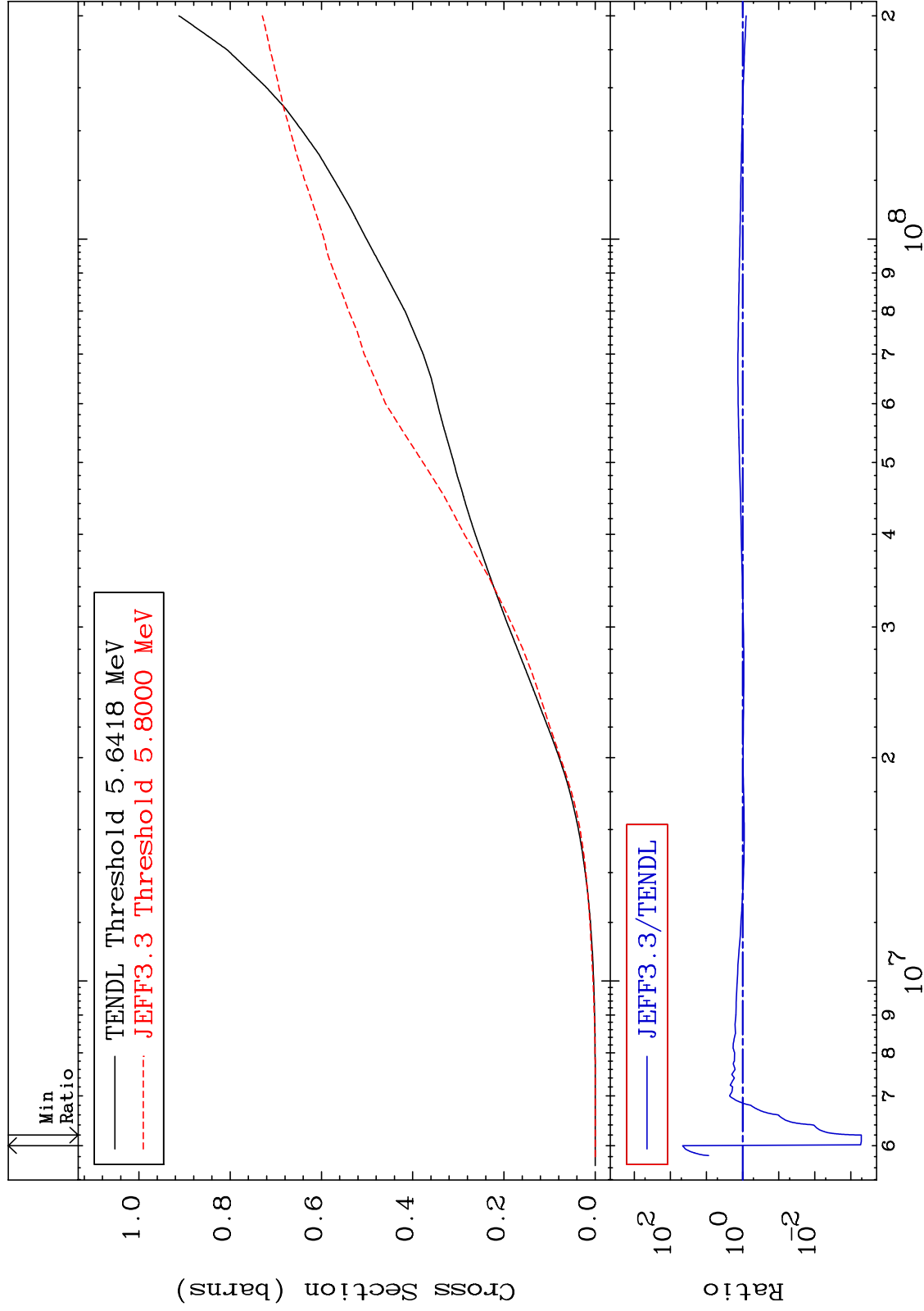
26-Fe-58
-58.37 To 712.6 %



MAT 2637

Hydrogen Production
Cross Section

26-Fe-58
-99.95 To 4464. %



37

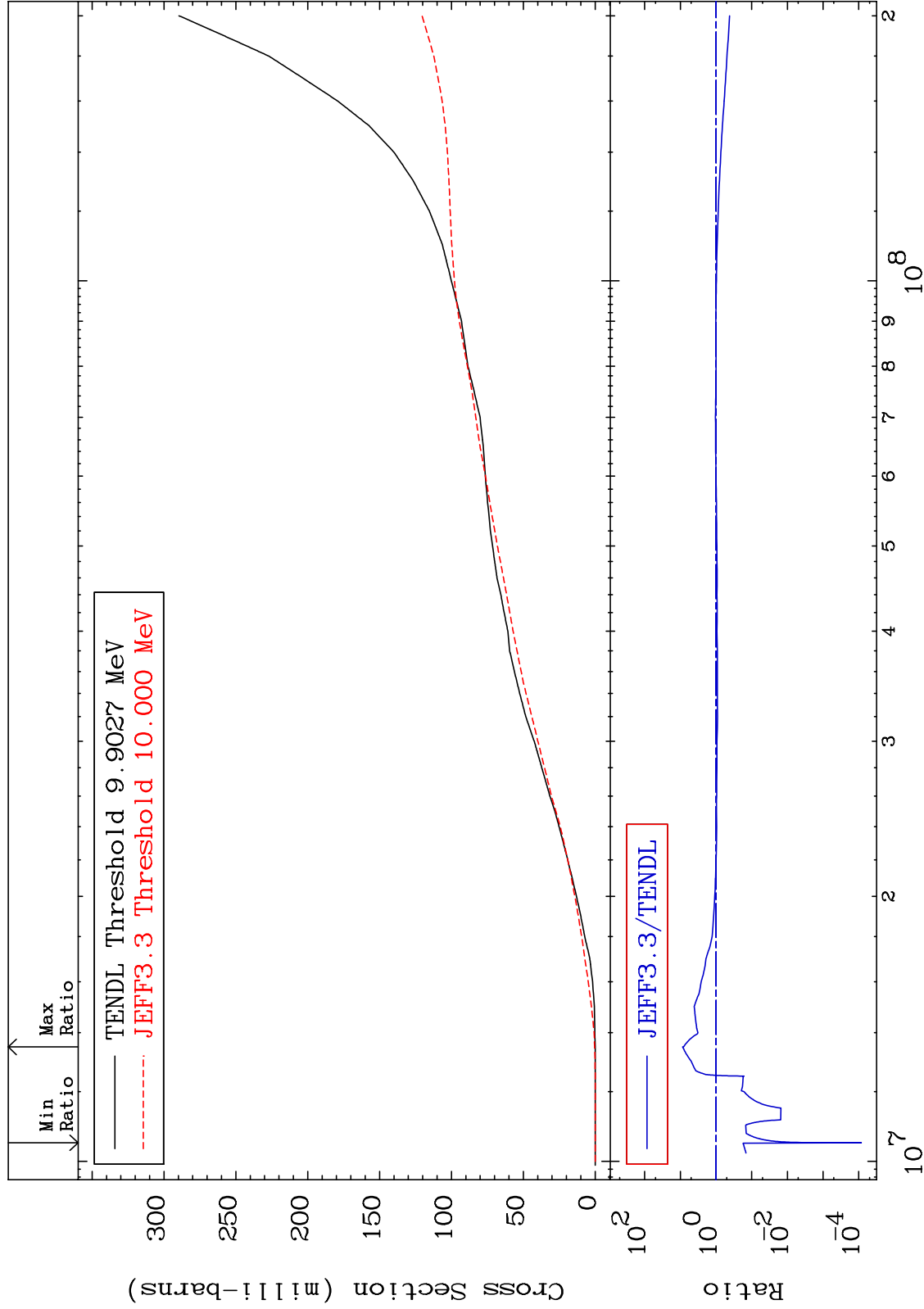
Incident Energy (eV)

26-Fe-58

MAT 2637

Deuterium Production
Cross Section

²⁶Fe-58
-99.99 To 761.2 %



38

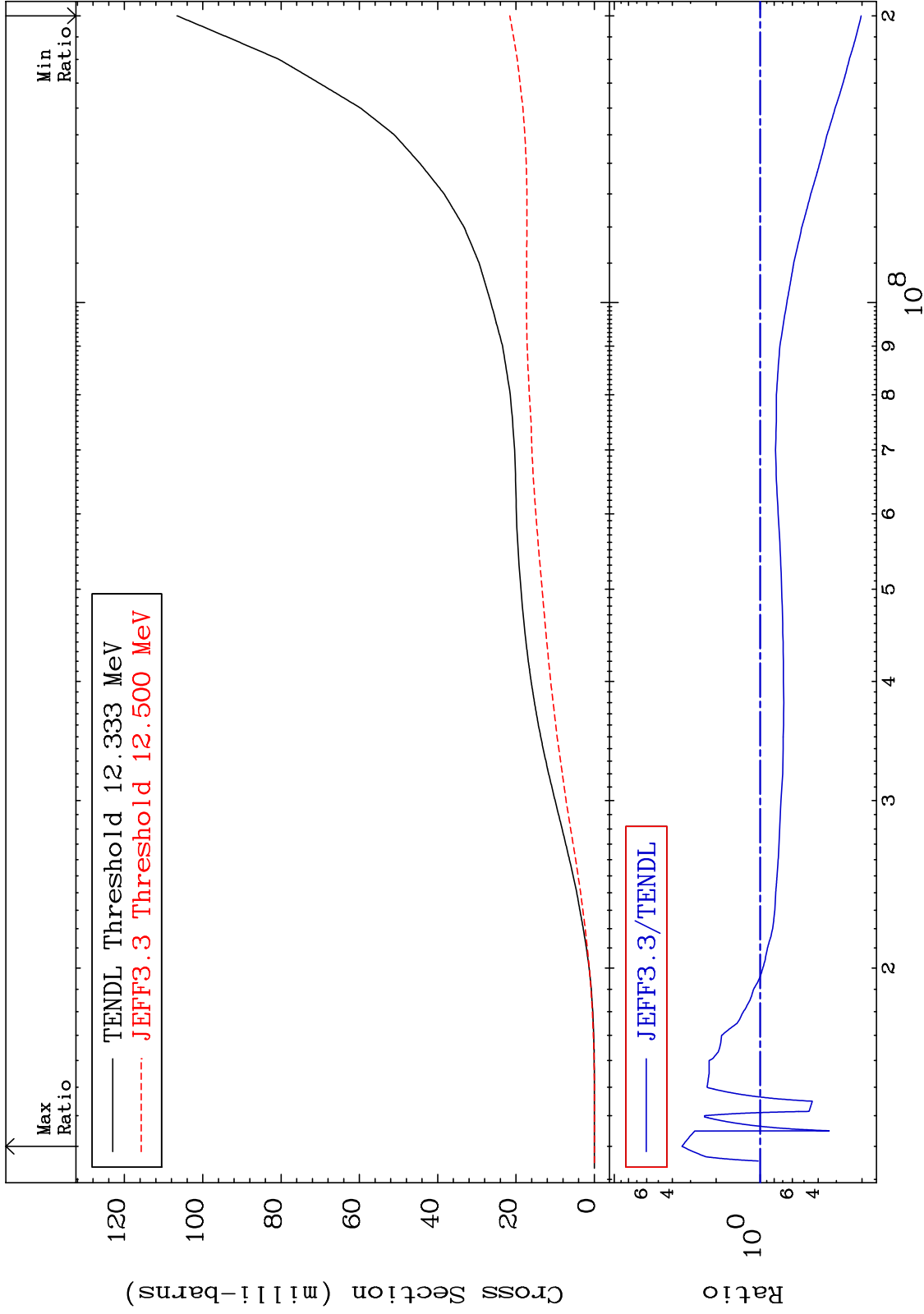
Incident Energy (eV)

²⁶Fe-58

MAT 2637

Tritium Production
Cross Section

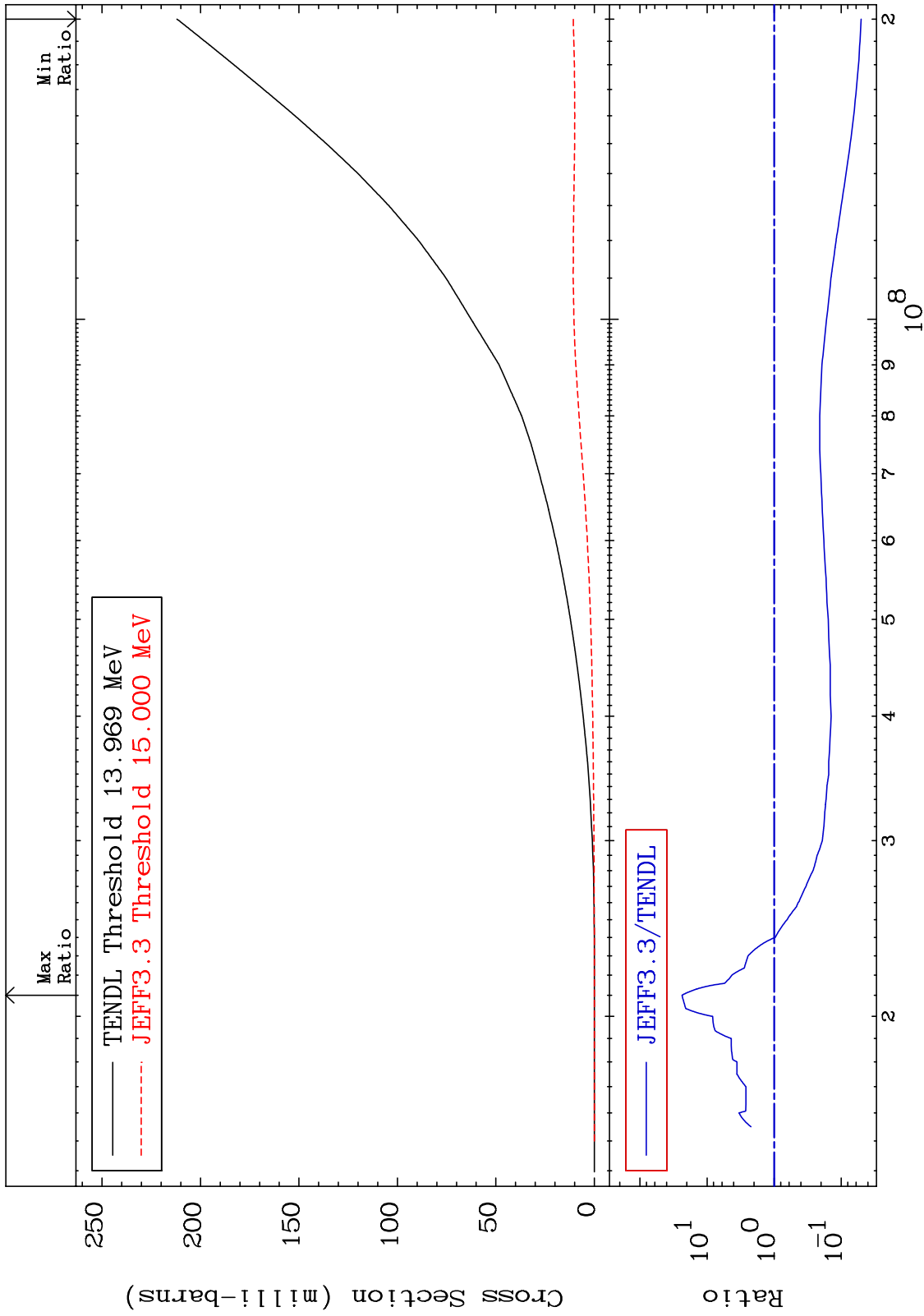
²⁶Fe-58
-79.75 To 243.3 %



MAT 2637

He-3 Production
Cross Section

26-Fe-58
-94.95 To 2260. %



40

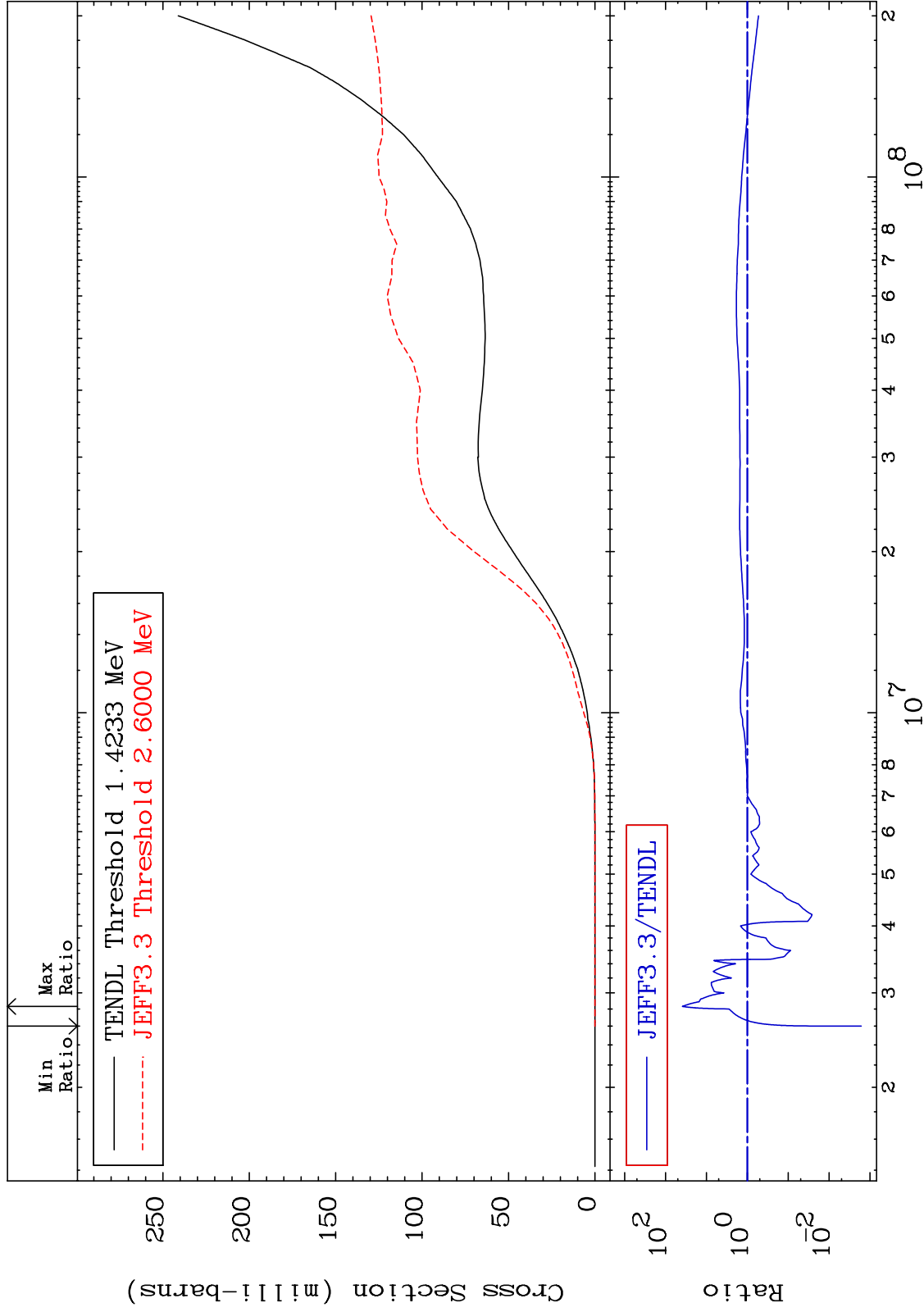
Incident Energy (eV)

26-Fe-58

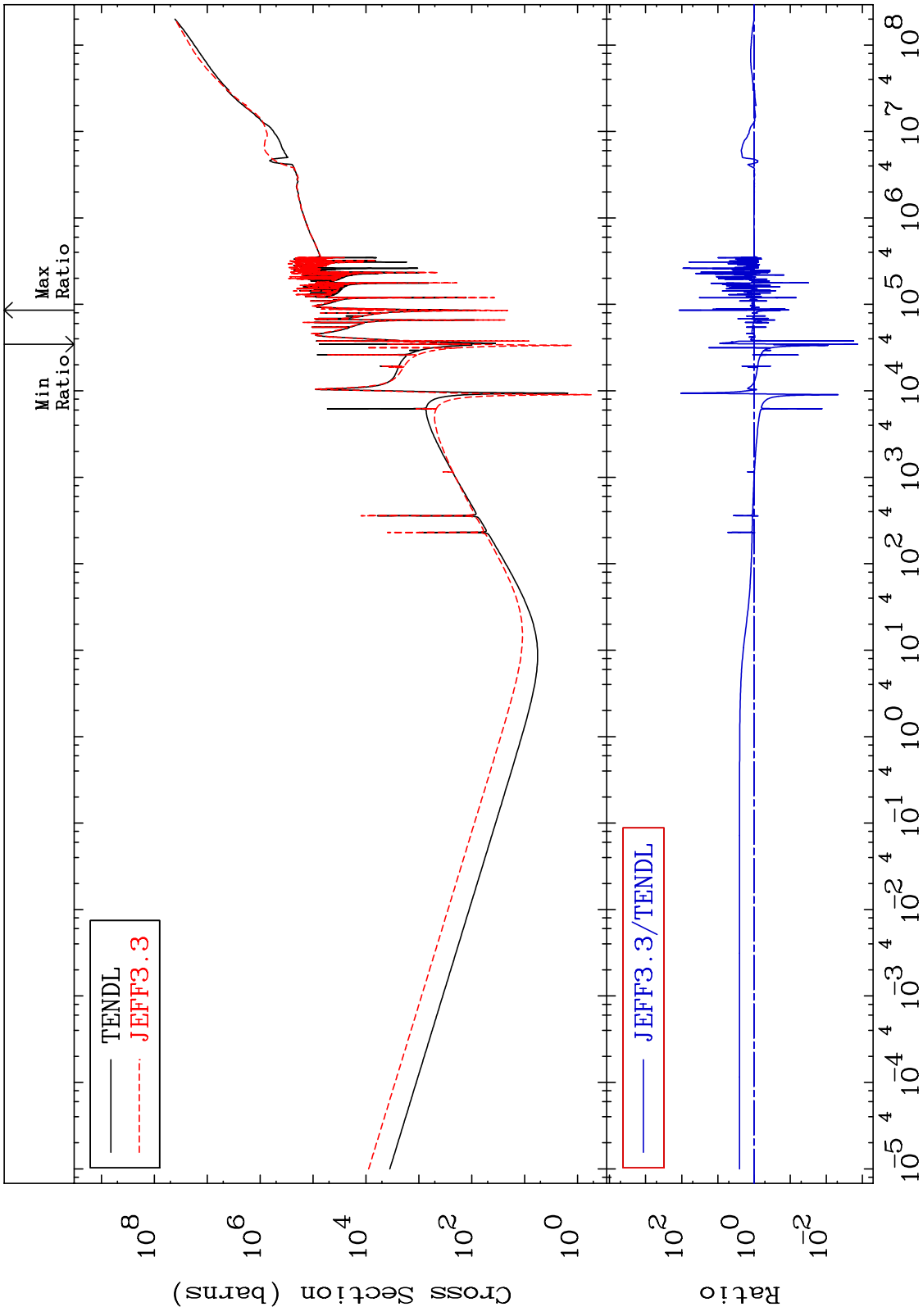
MAT 2637

He-4 Production
Cross Section

26-Fe-58
-99.84 To 3764. %



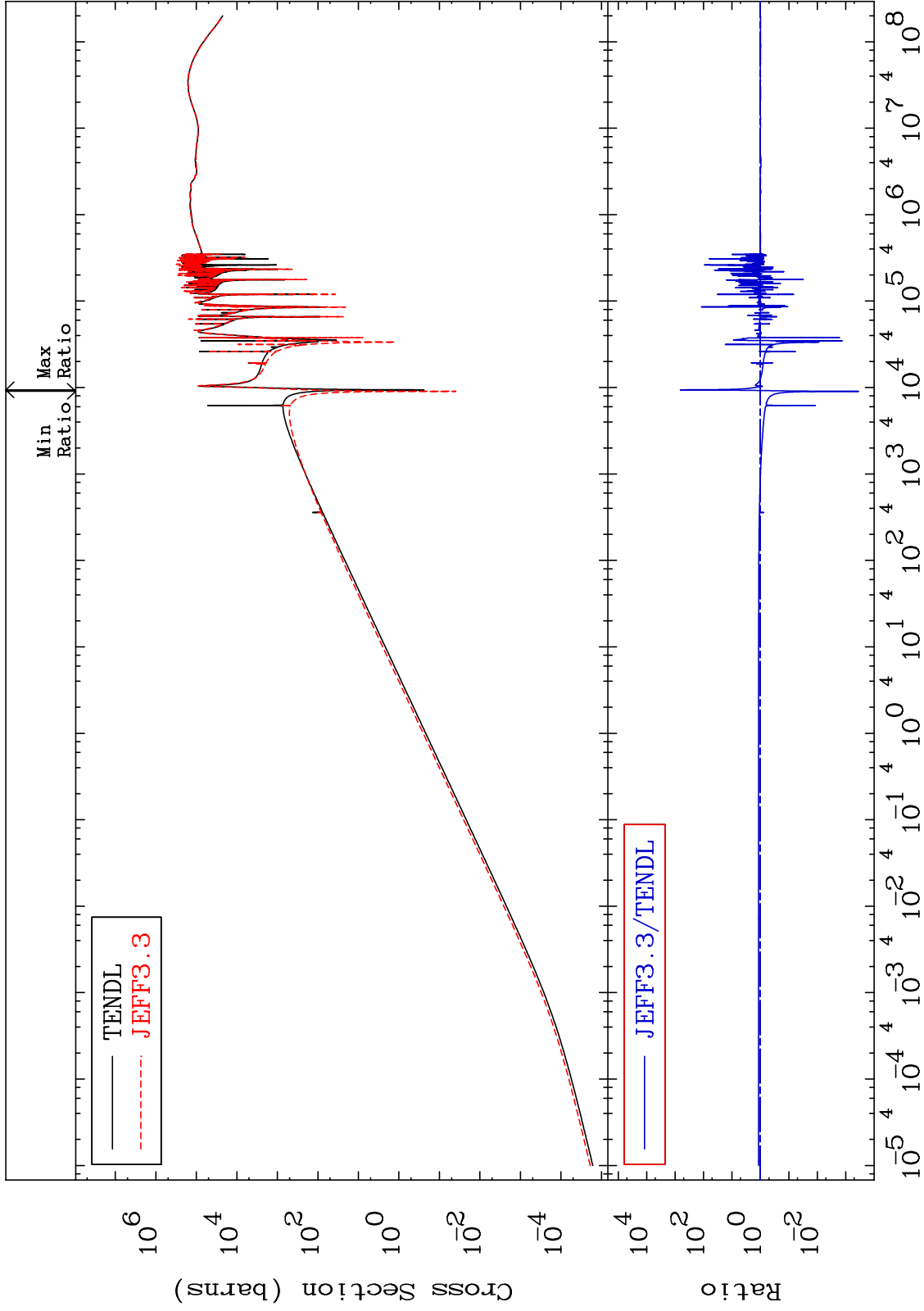
MAT 2637 Kerma total (eV-barns) Cross Section 26-Fe-58
 -99.87 To 9999. %



MAT 2637

Kerma elastic
Cross Section

26-Fe-58
-99.97 To 9999. %



43

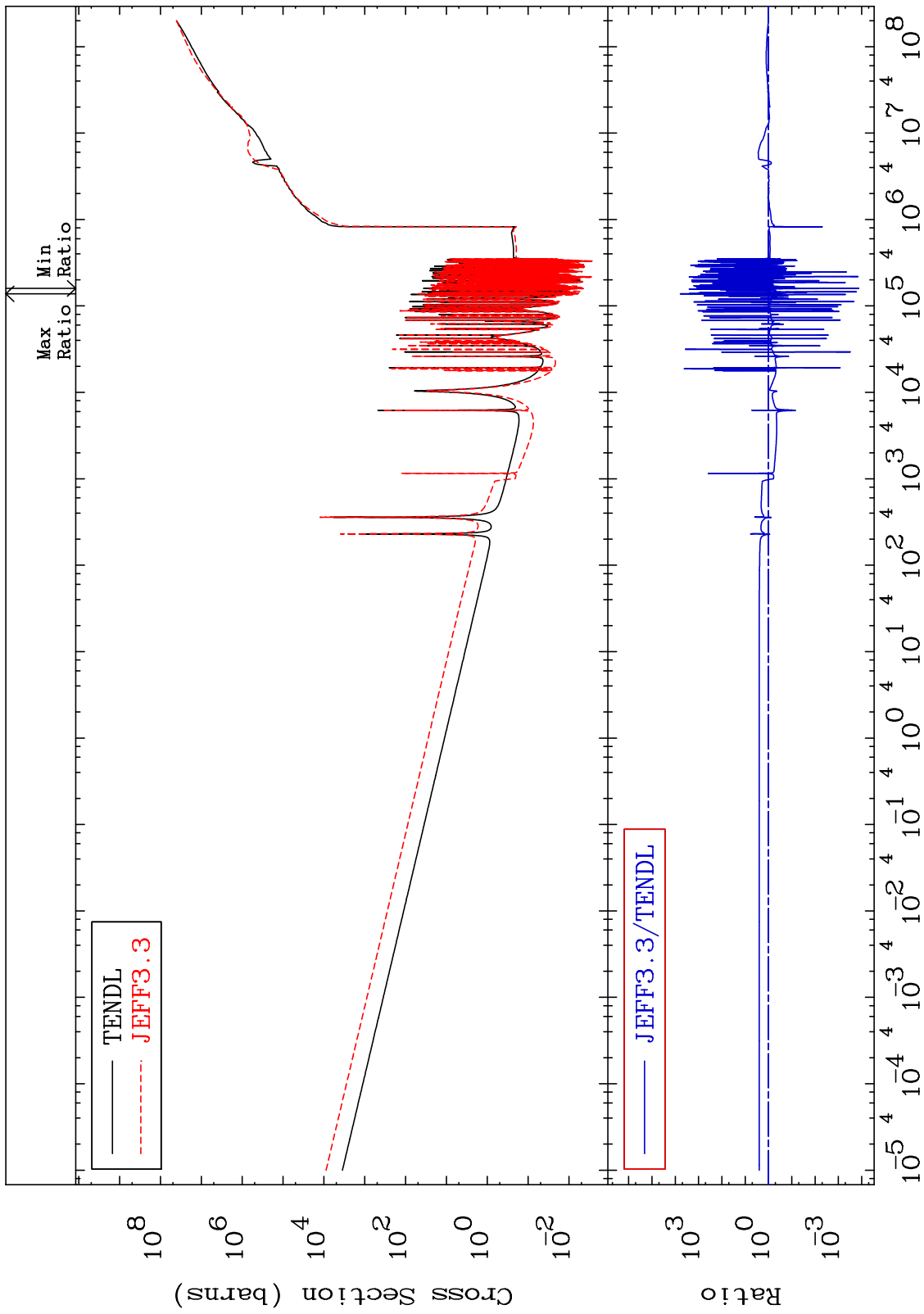
Incident Energy (eV)

26-Fe-58

MAT 2637

Kerma non-elastic (all but mt2)
Cross Section

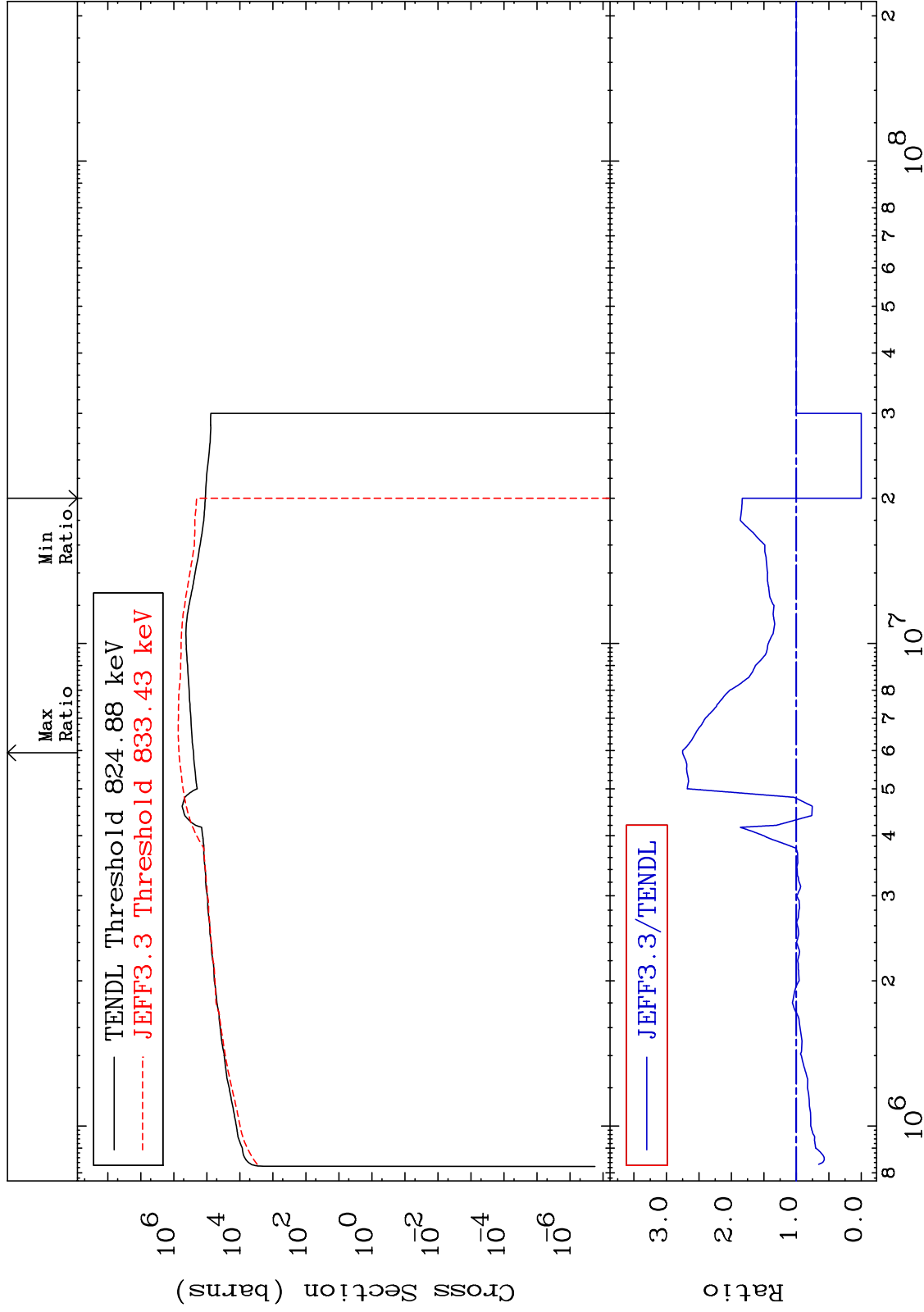
26-Fe-58
-99.99 To 9999. %



MAT 2637

Kerma inelastic (mt51-91)
Cross Section

26-Fe-58
-100.0 To 175.3 %



45

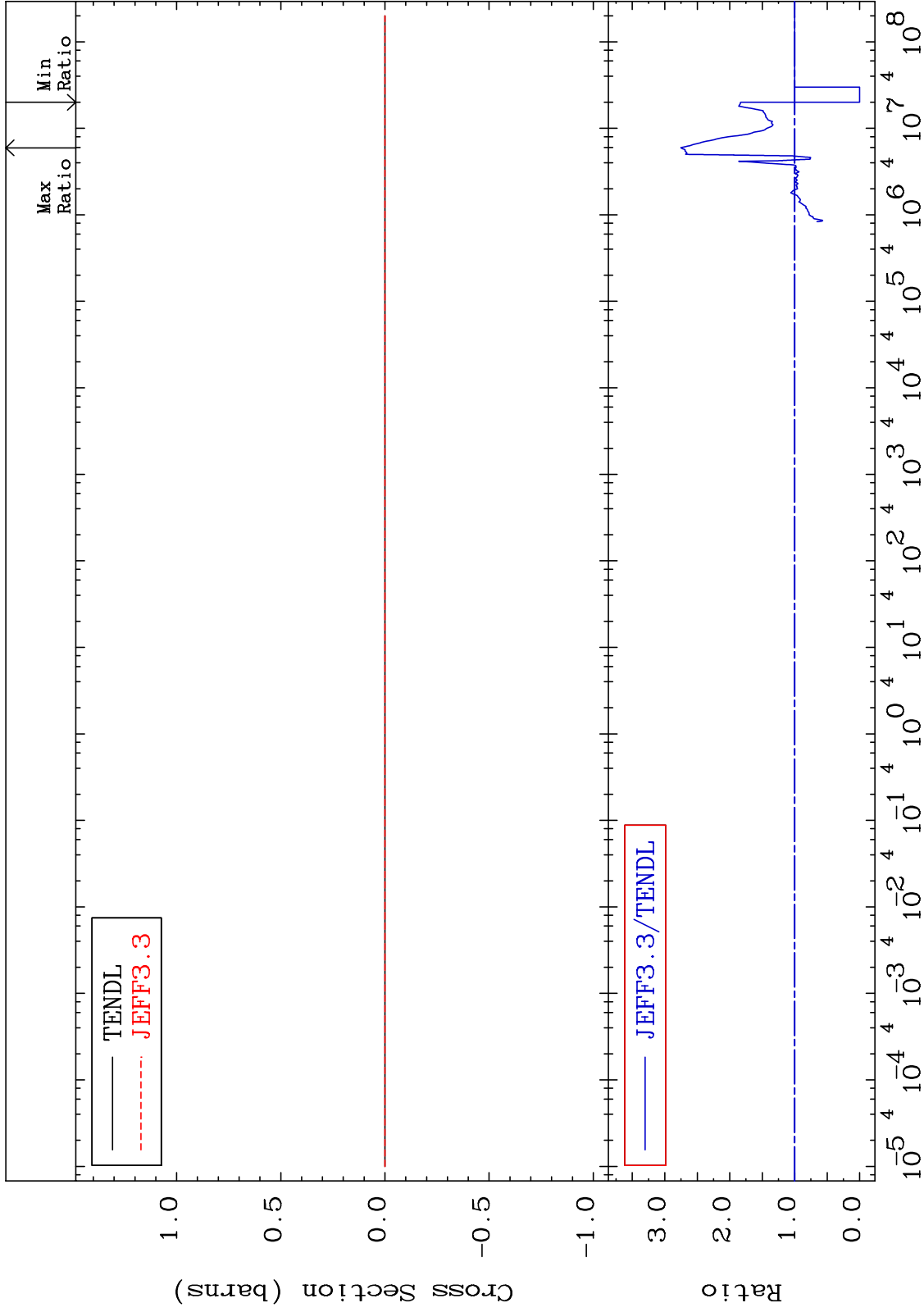
Incident Energy (eV)

26-Fe-58

MAT 2637

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

26-Fe-58
-100.0 To 175.3 %

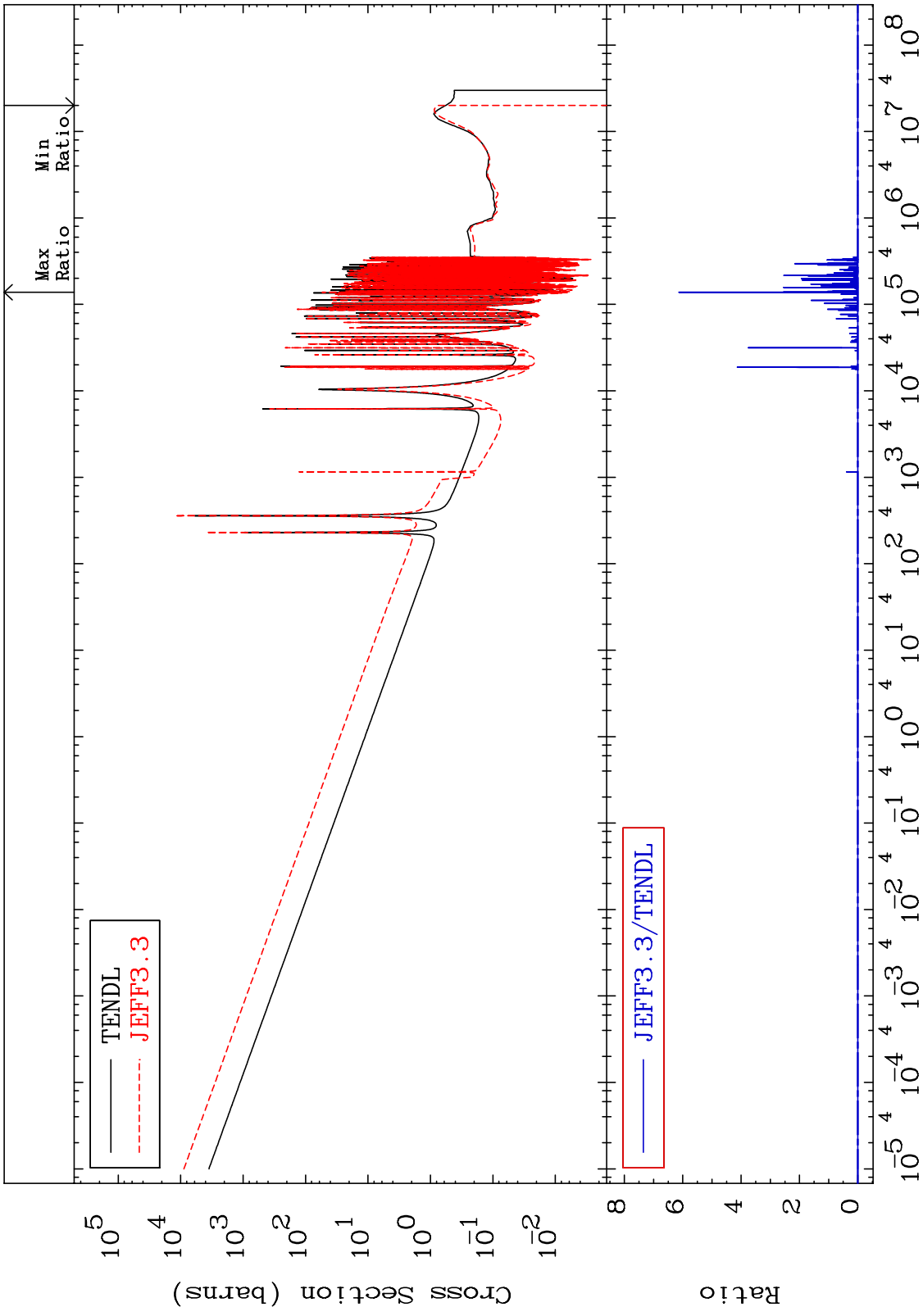


46

Incident Energy (eV)

26-Fe-58

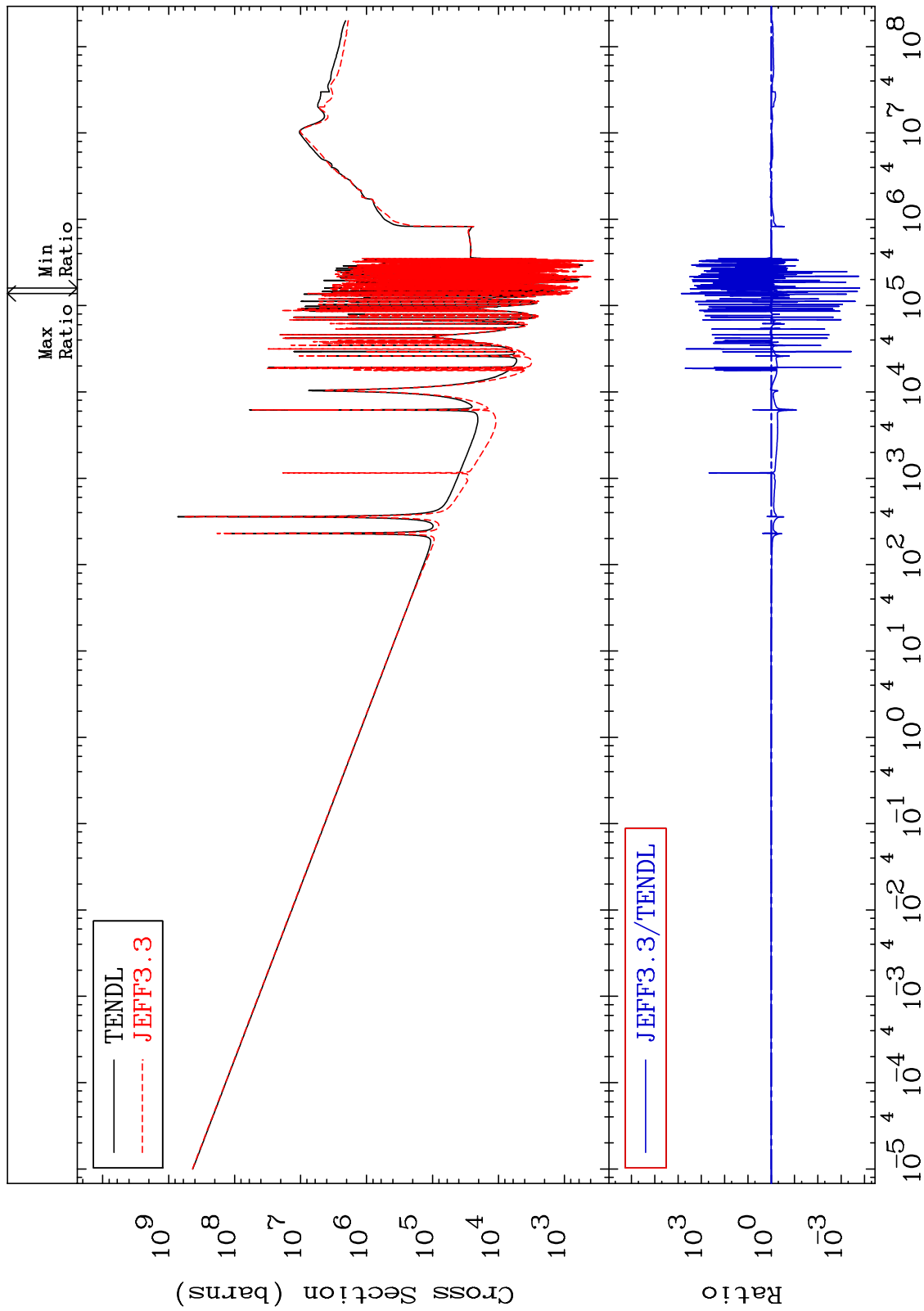
MAT 2637 Kerma capture (mt102) 26-Fe-58
Cross Section -100.0 To 9999. %



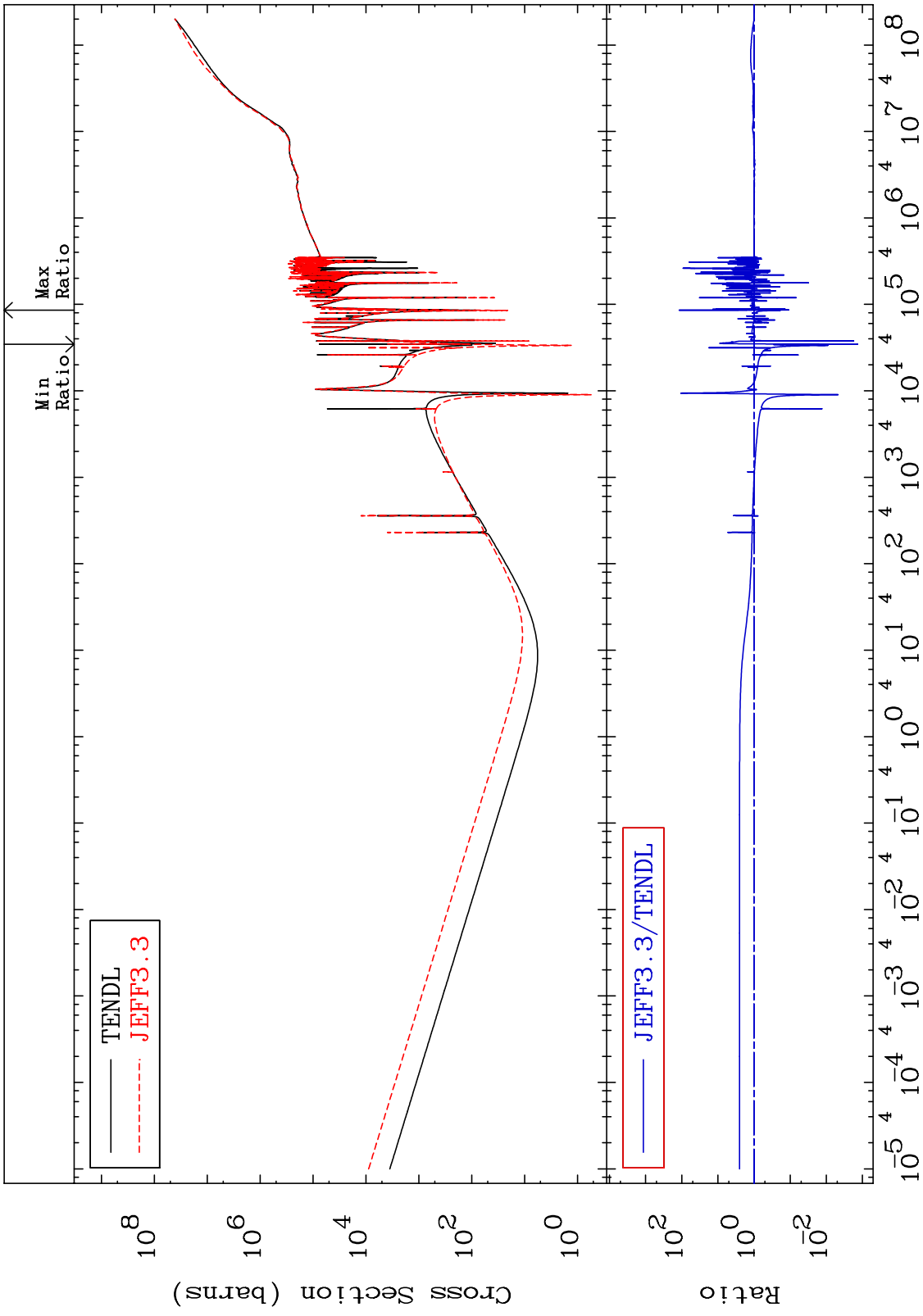
MAT 2637

Total photon (eV-barns)
Cross Section

26-Fe-58
-99.98 To 9999. %



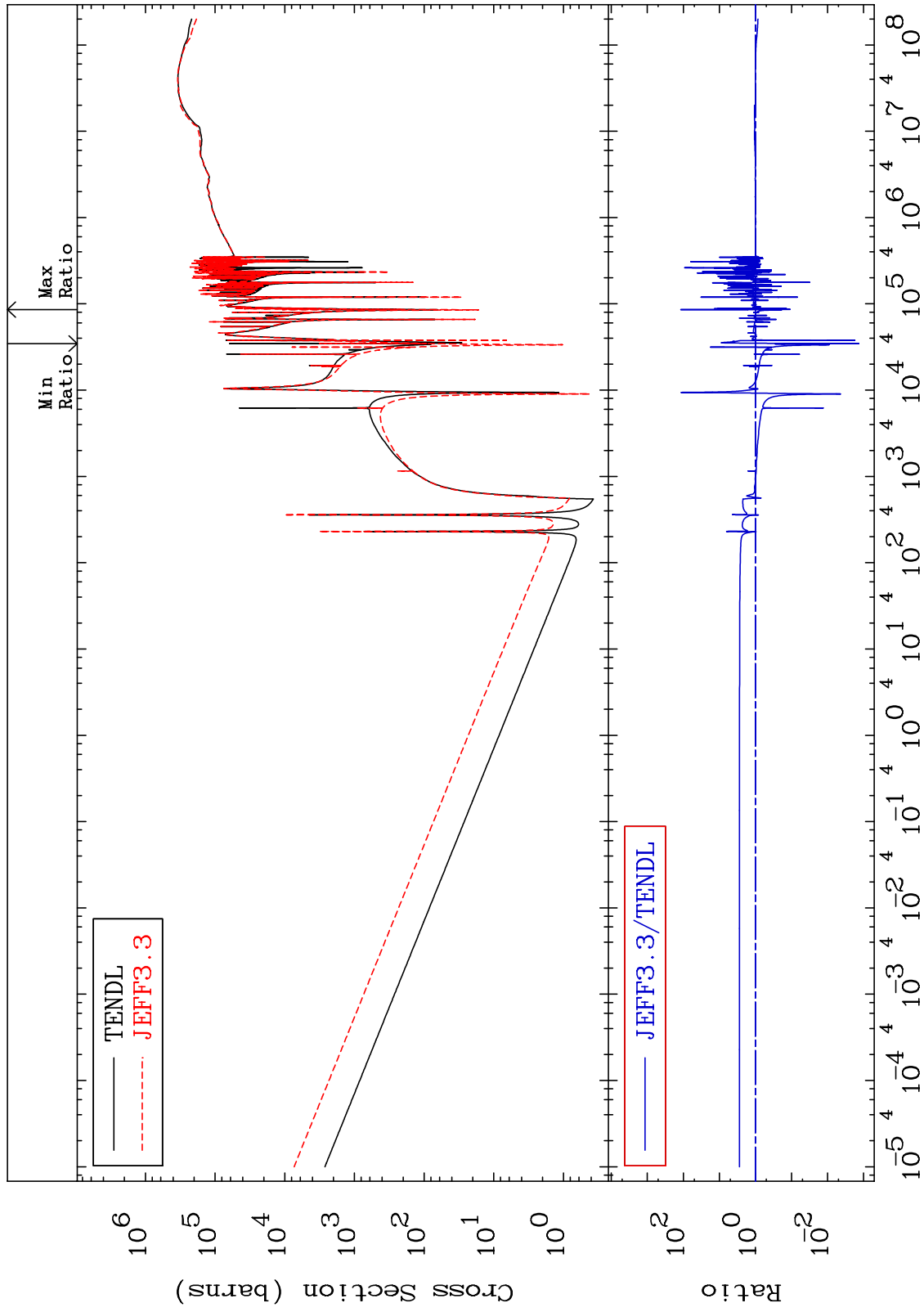
MAT 2637 Total kinematic kerma (high limit) 26-Fe-58
 Cross Section -99.87 To 9999. %



MAT 2637

Dpa total (eV-barns)
Cross Section

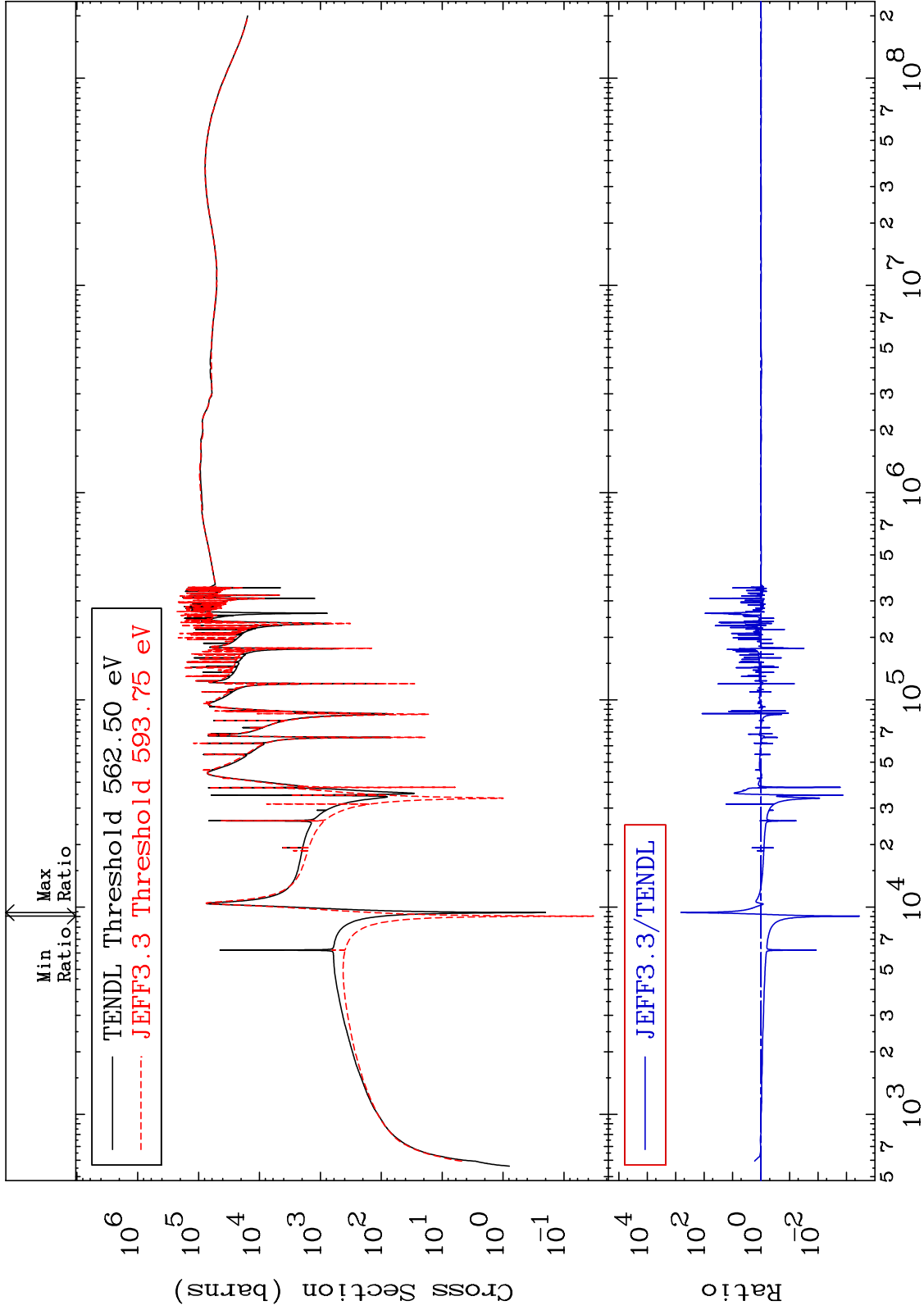
26-Fe-58
-99.87 To 9999. %



MAT 2637

Dpa elastic (mt2)
Cross Section

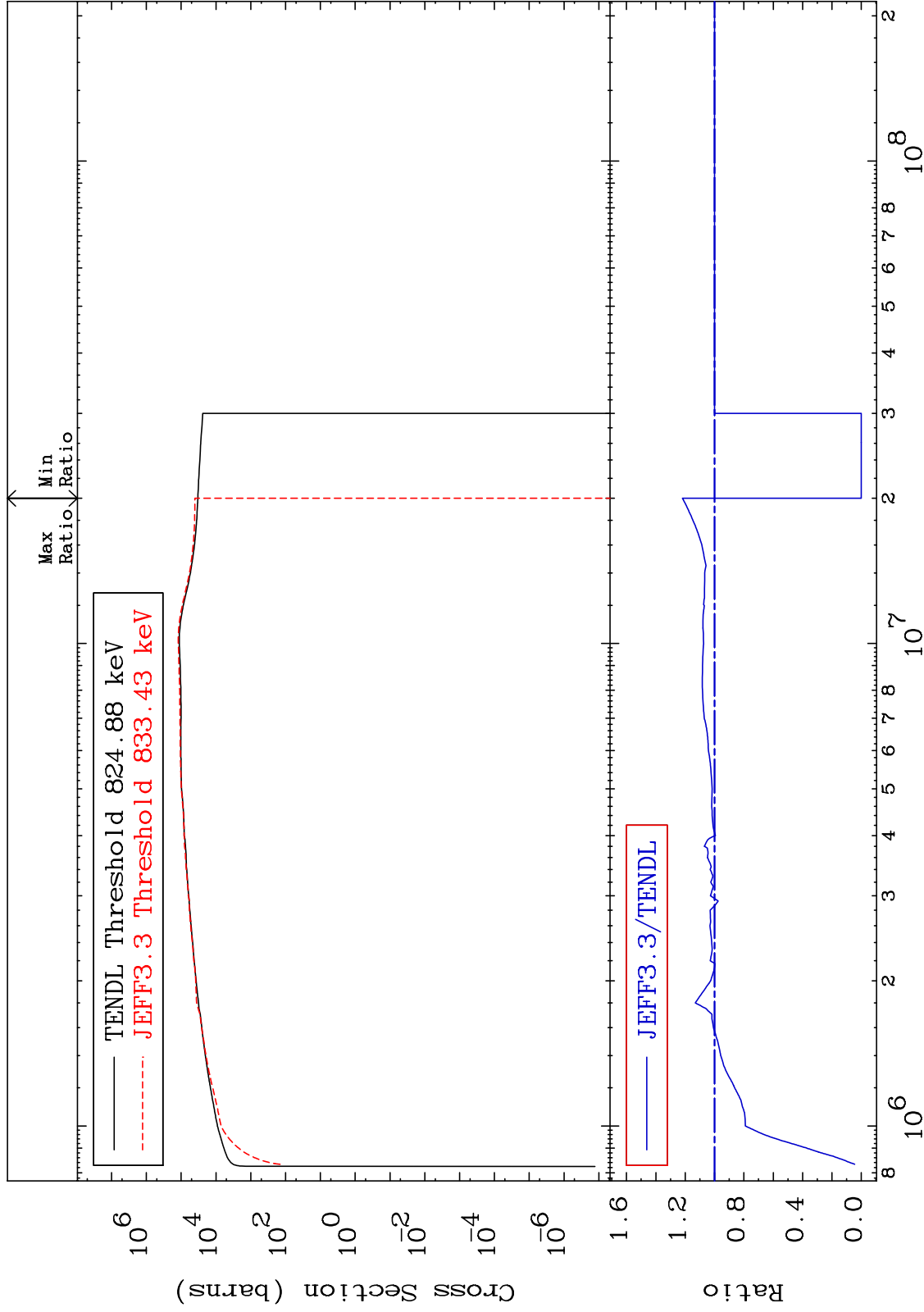
26-Fe-58
-99.97 To 9999. %



MAT 2637

Dpa inelastic (mt51-91)
Cross Section

26-Fe-58
-100.0 To 21.86 %

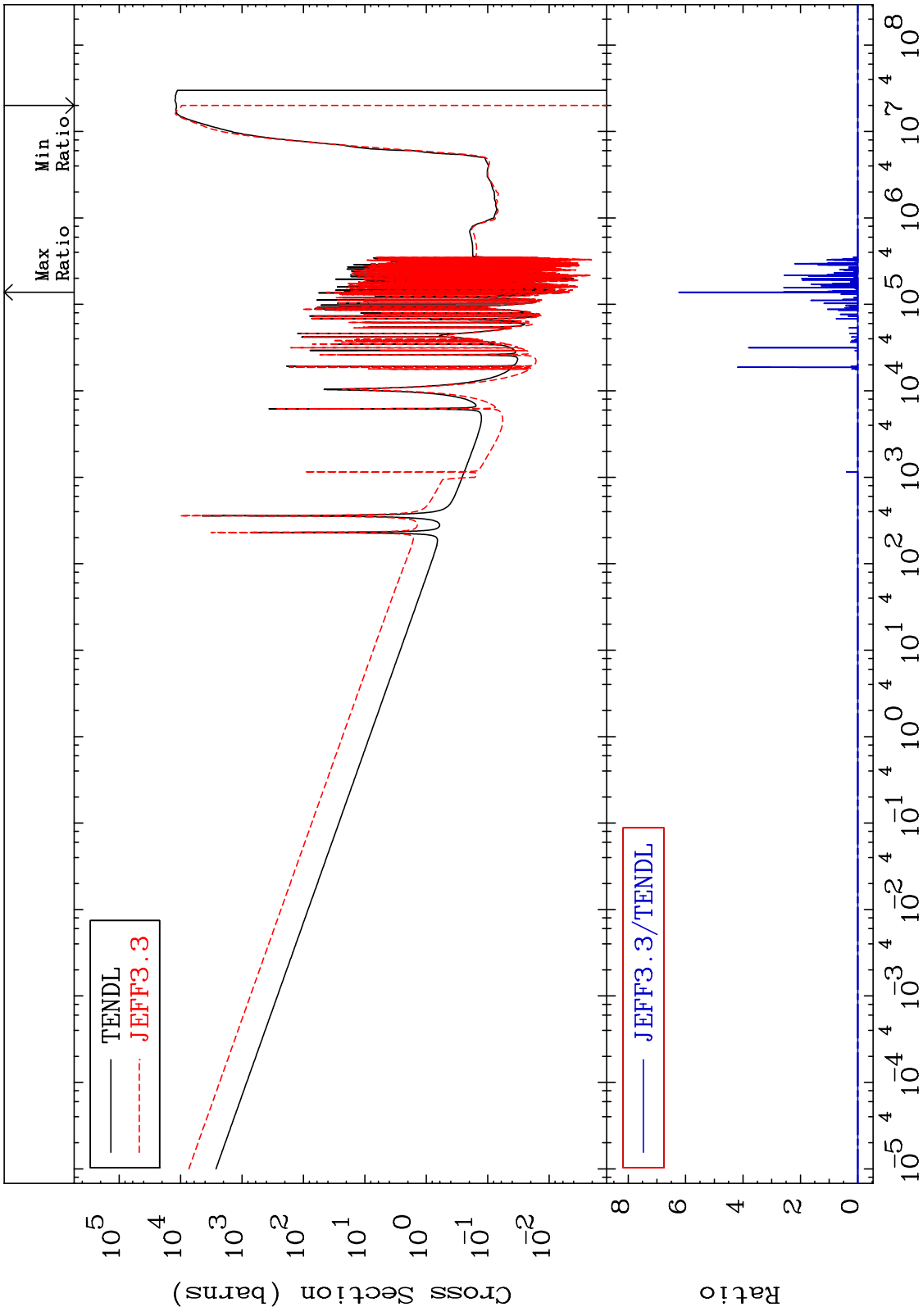


52

Incident Energy (eV)

26-Fe-58

MAT 2637 Dpa disappearance (mt102 -120) 26-Fe-58
 Cross Section -100.0 To 9999. %

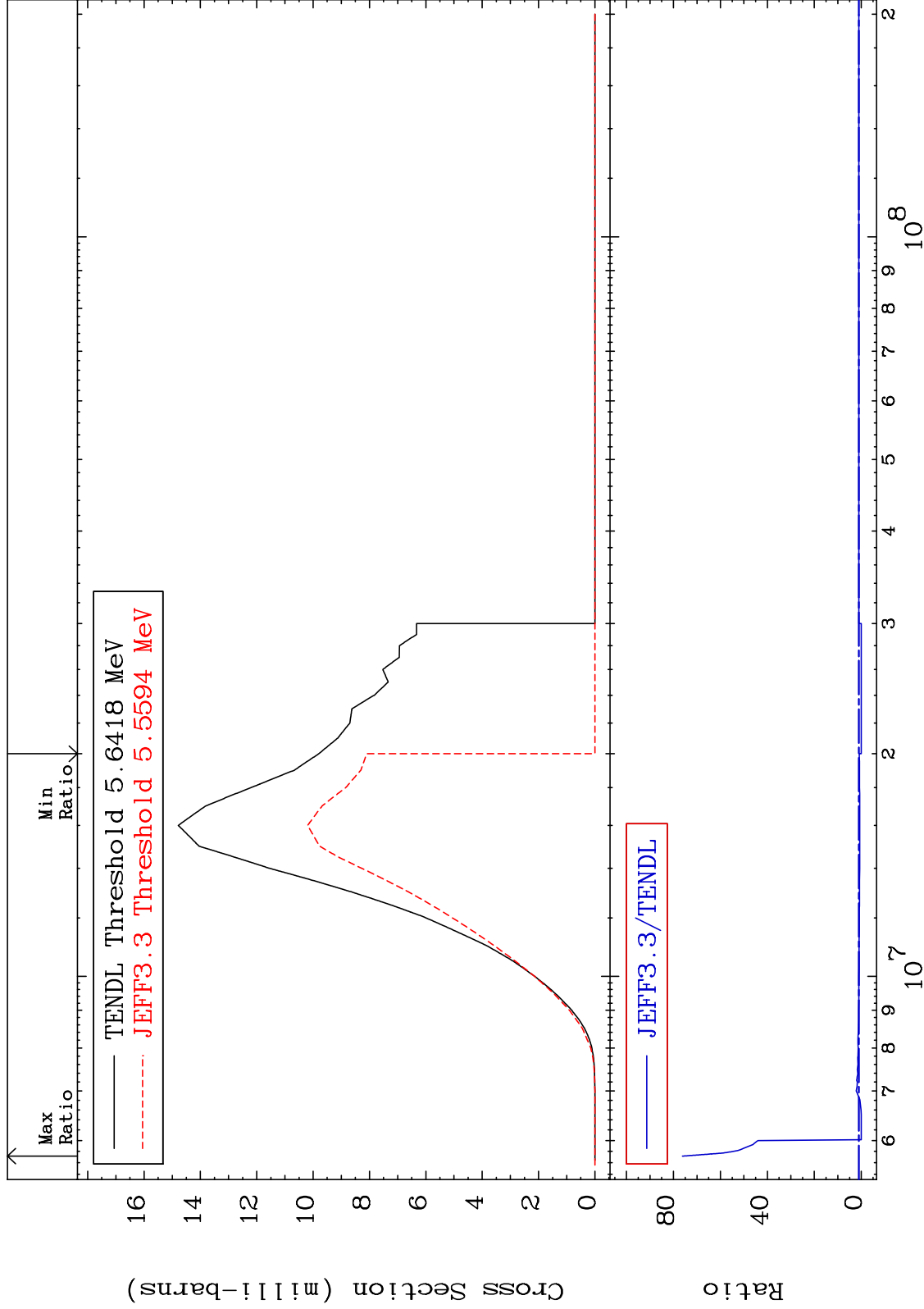


MAT 2637

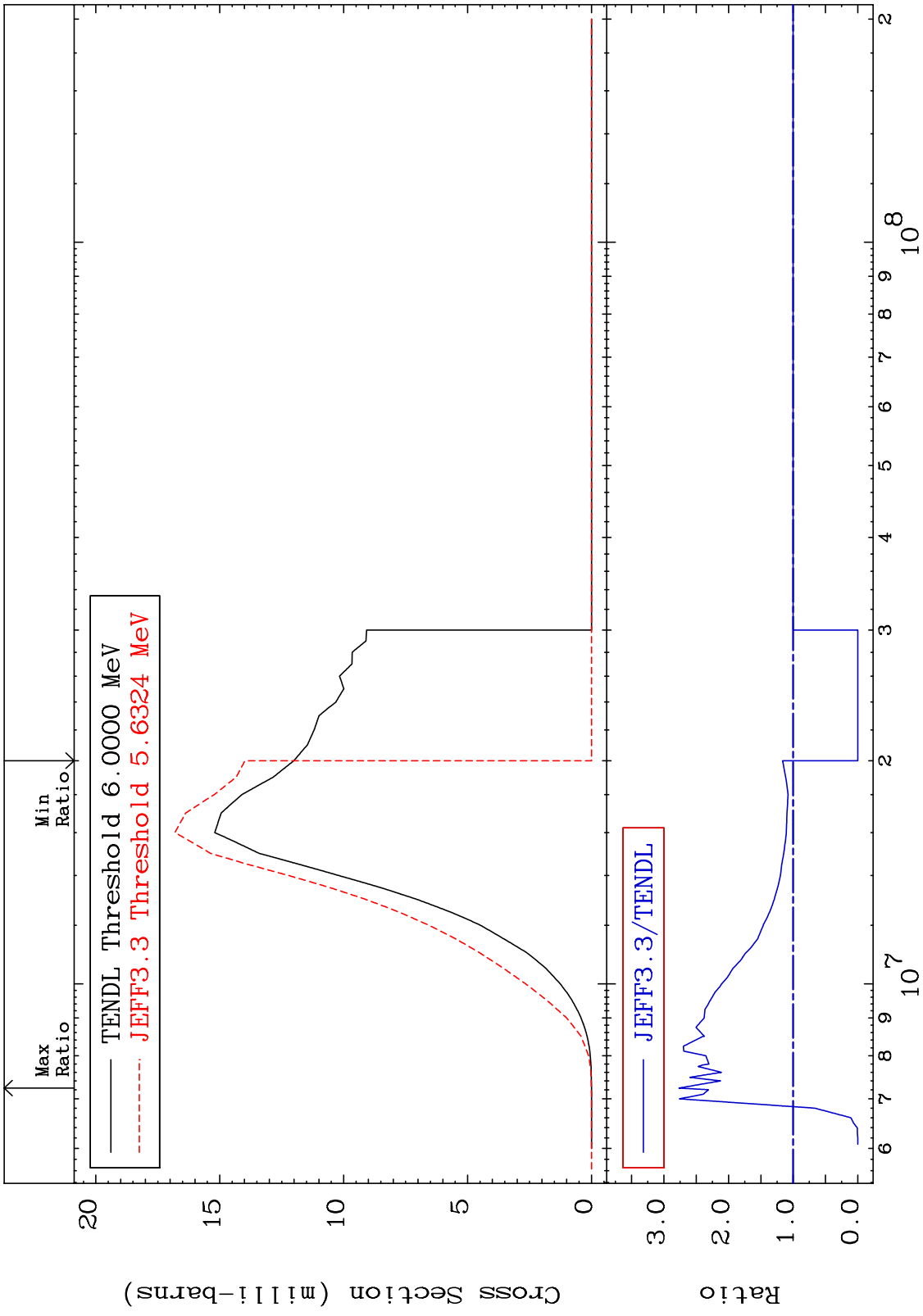
(n,p):25-Mn-58g

²⁶Fe-58

Radionuclide Production Cross Section -100.0 To 7517. %



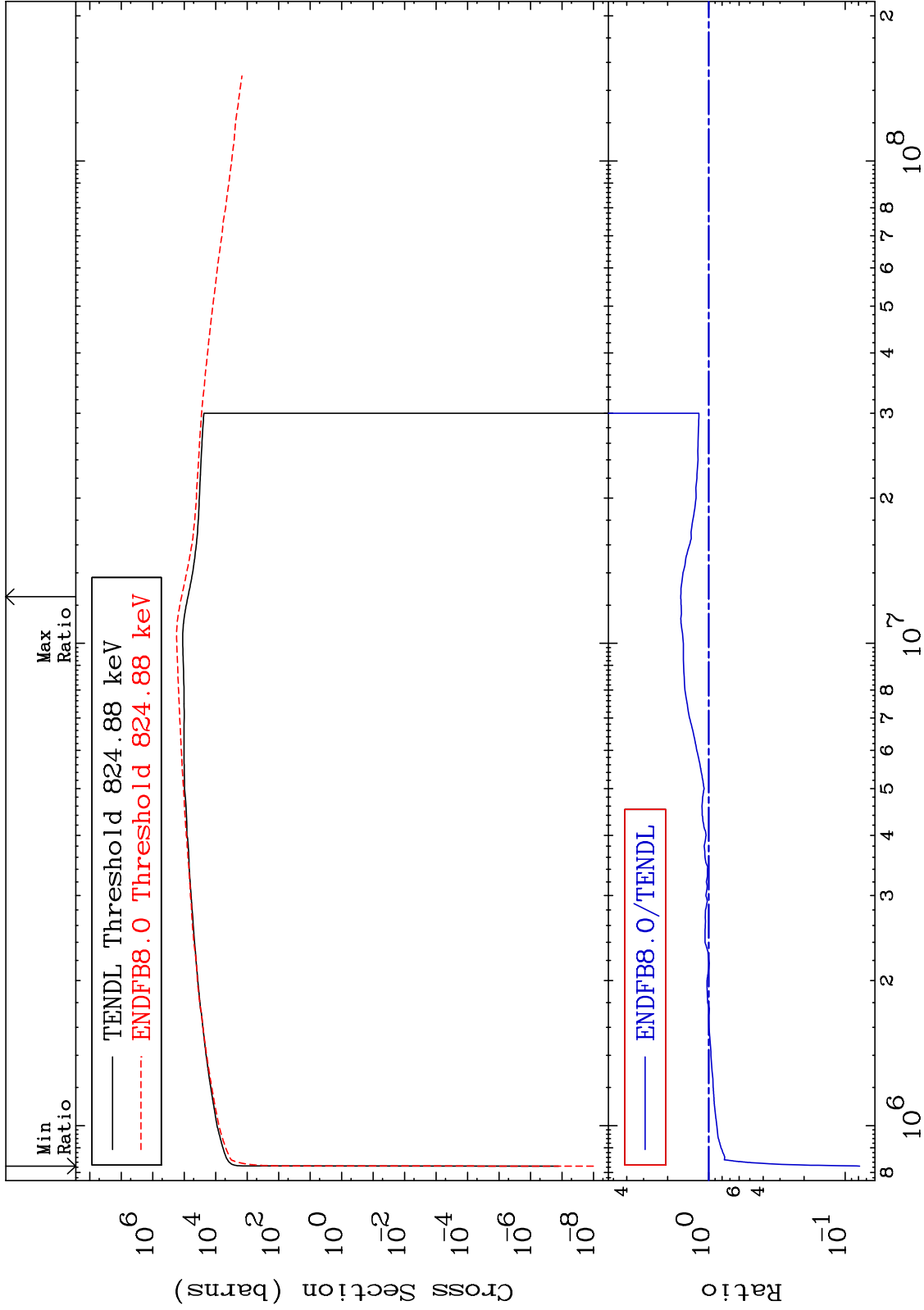
MAT 2637 (n,p):25-Mn-58m1 26-Fe-58
Radionuclide Production Cross Section -100.0 To 176.6 %



MAT 2637

Dpa inelastic (mt51-91)
Cross Section

26-Fe-58
-92.16 To 60.30 %



56

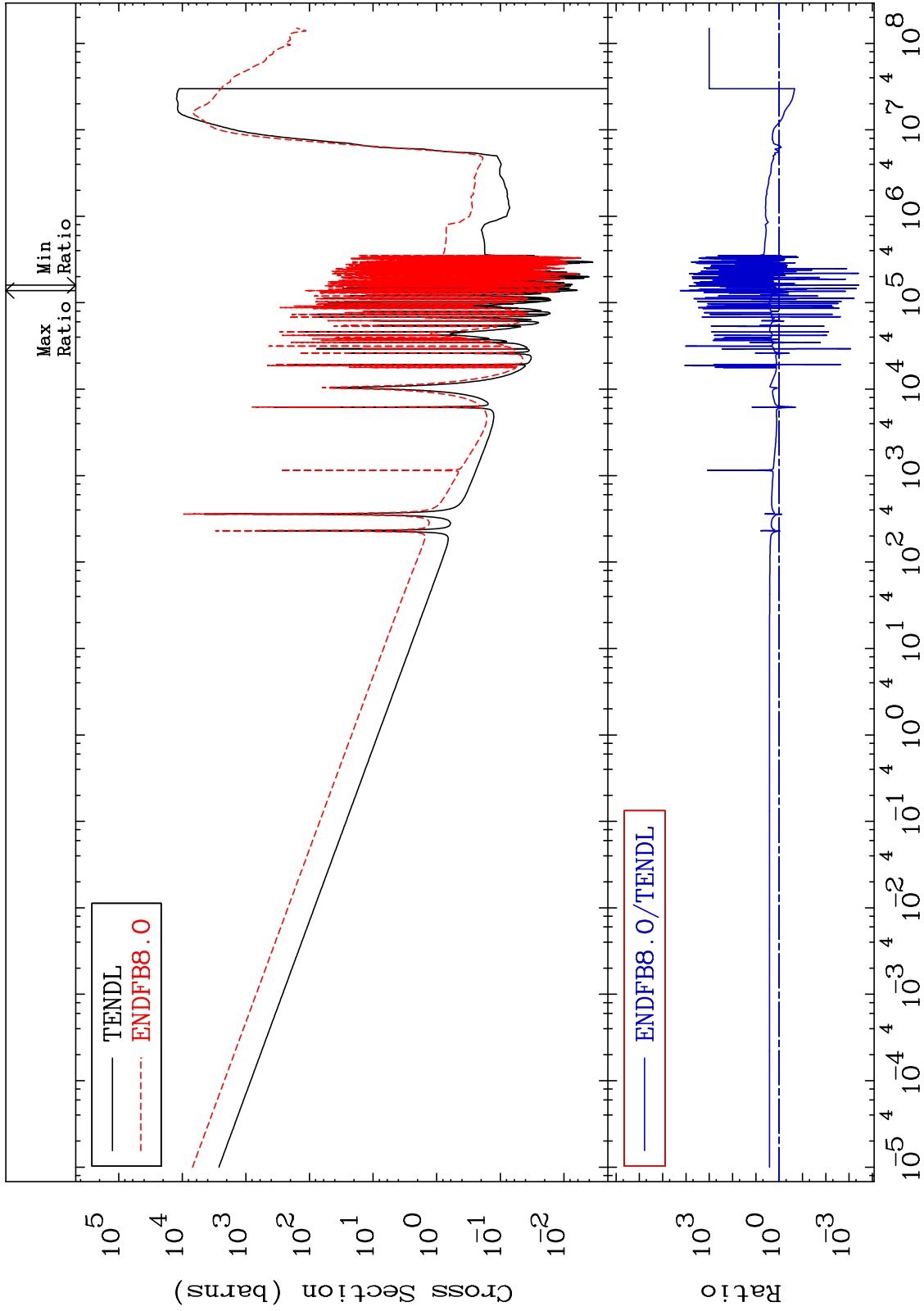
Incident Energy (eV)

26-Fe-58

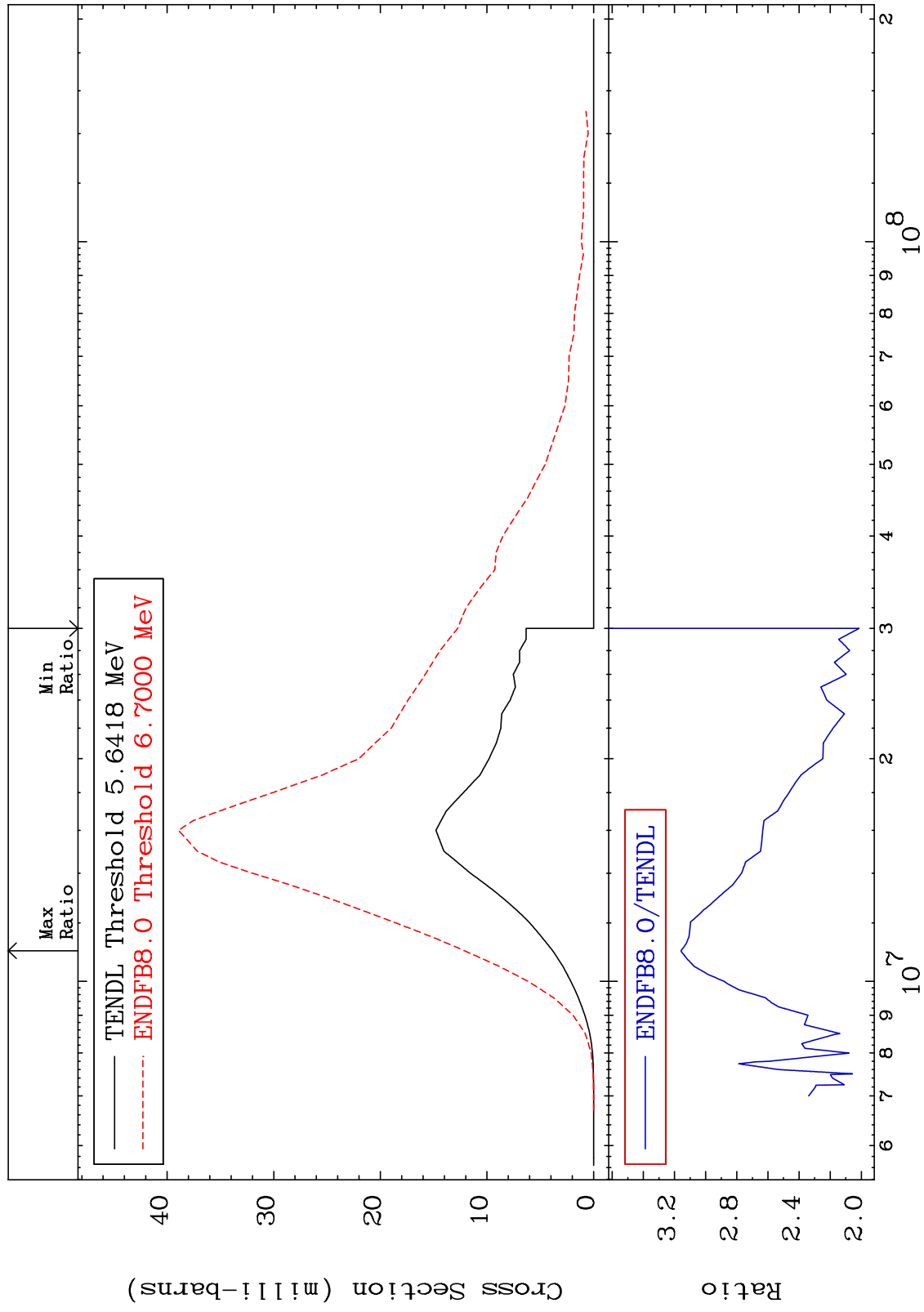
MAT 2637

Dpa disappearance (mt102 -120)
Cross Section

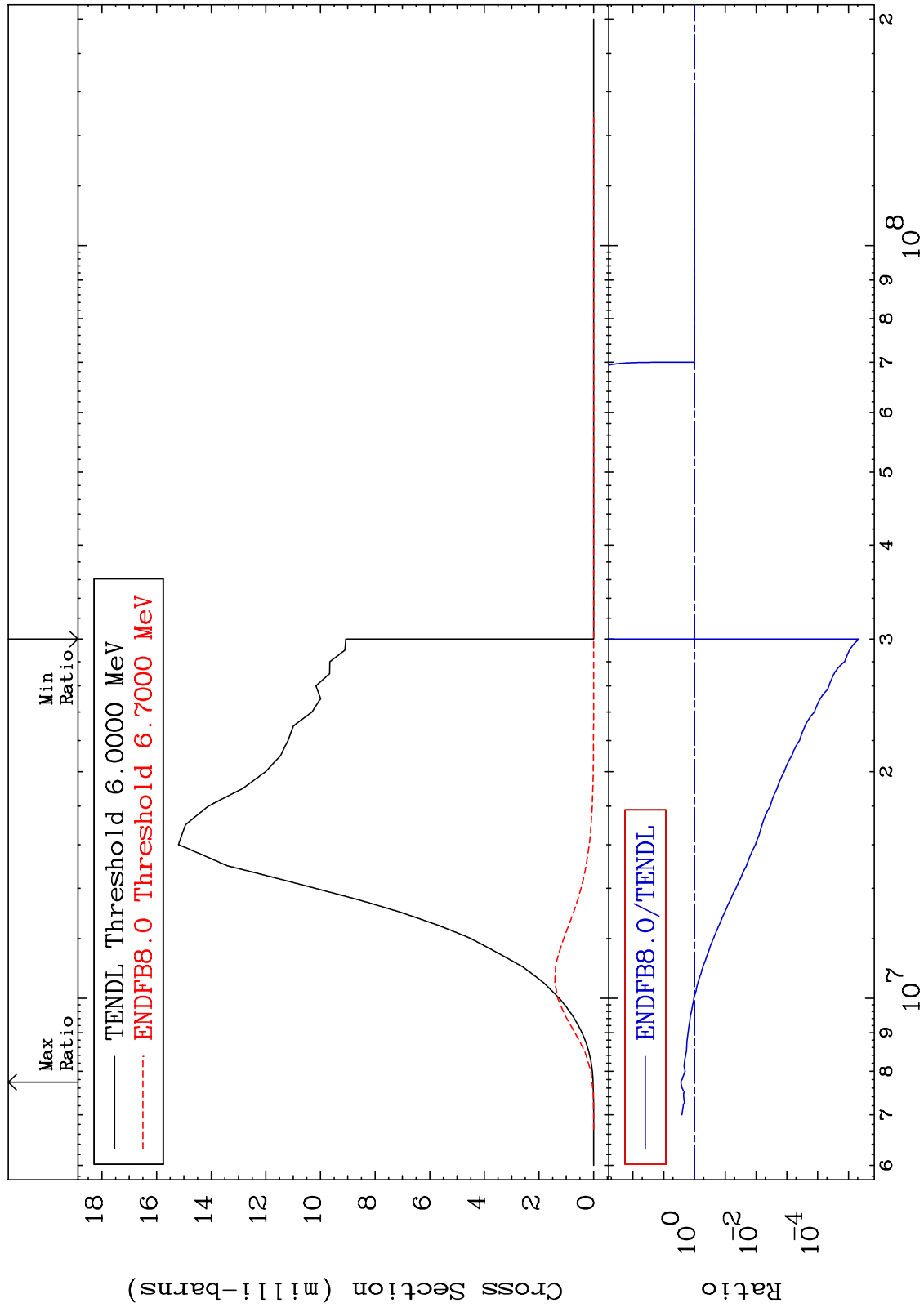
26-Fe-58
-99.96 To 9999. %



MAT 2637 (n,p):25-Mn-58g 26-Fe-58
Radionuclide Production Cross Section 101.5 To 215.9 %



MAT 2637 (n,p):25-Mn-58m1 26-Fe-58
Radionuclide Production Cross Section -100.0 To 177.2 %



26-Fe-58

Incident Energy (eV)