

Program Complot
(Version 2018-1)

by

Dermott E. Cullen
(Present Contact Information)

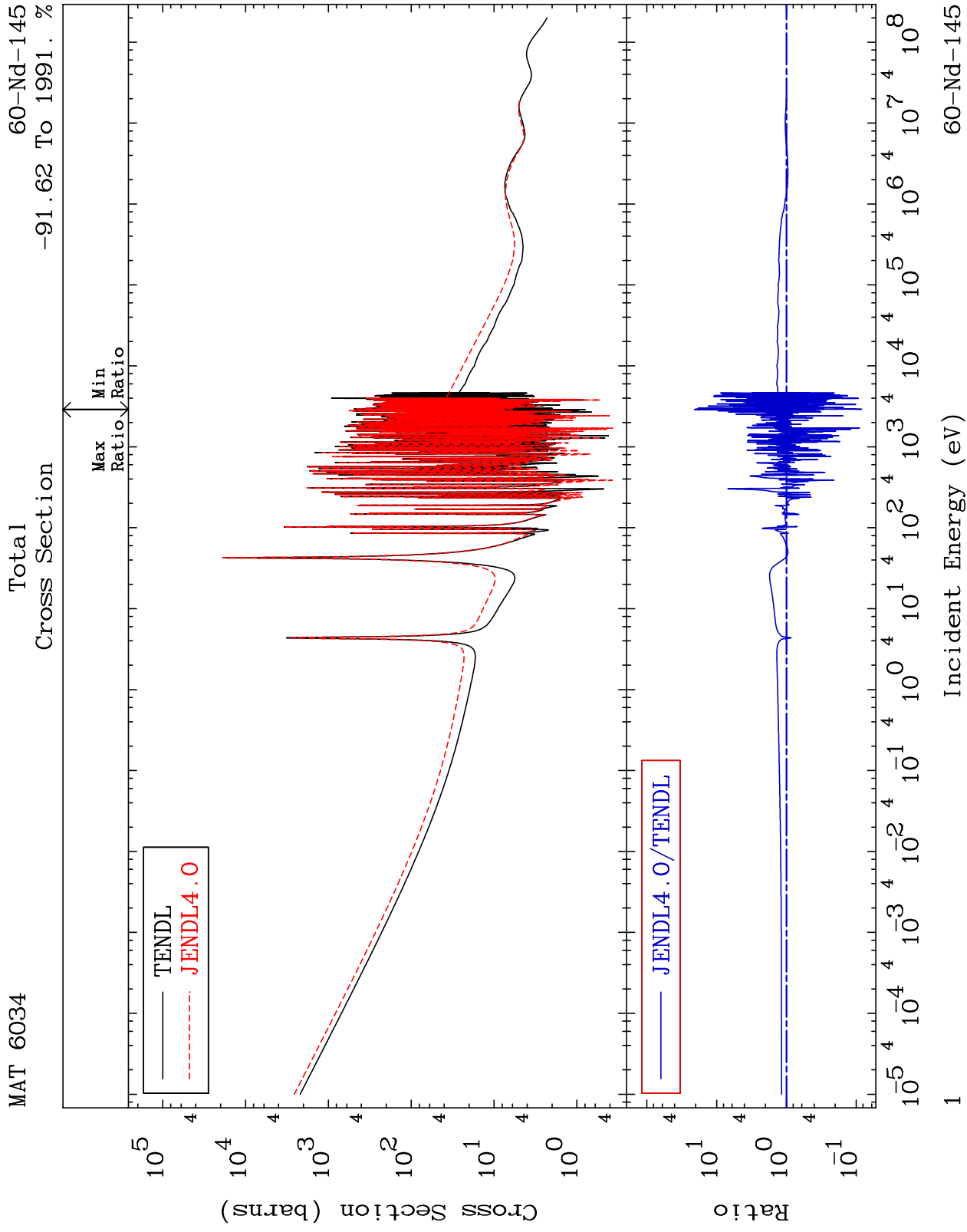
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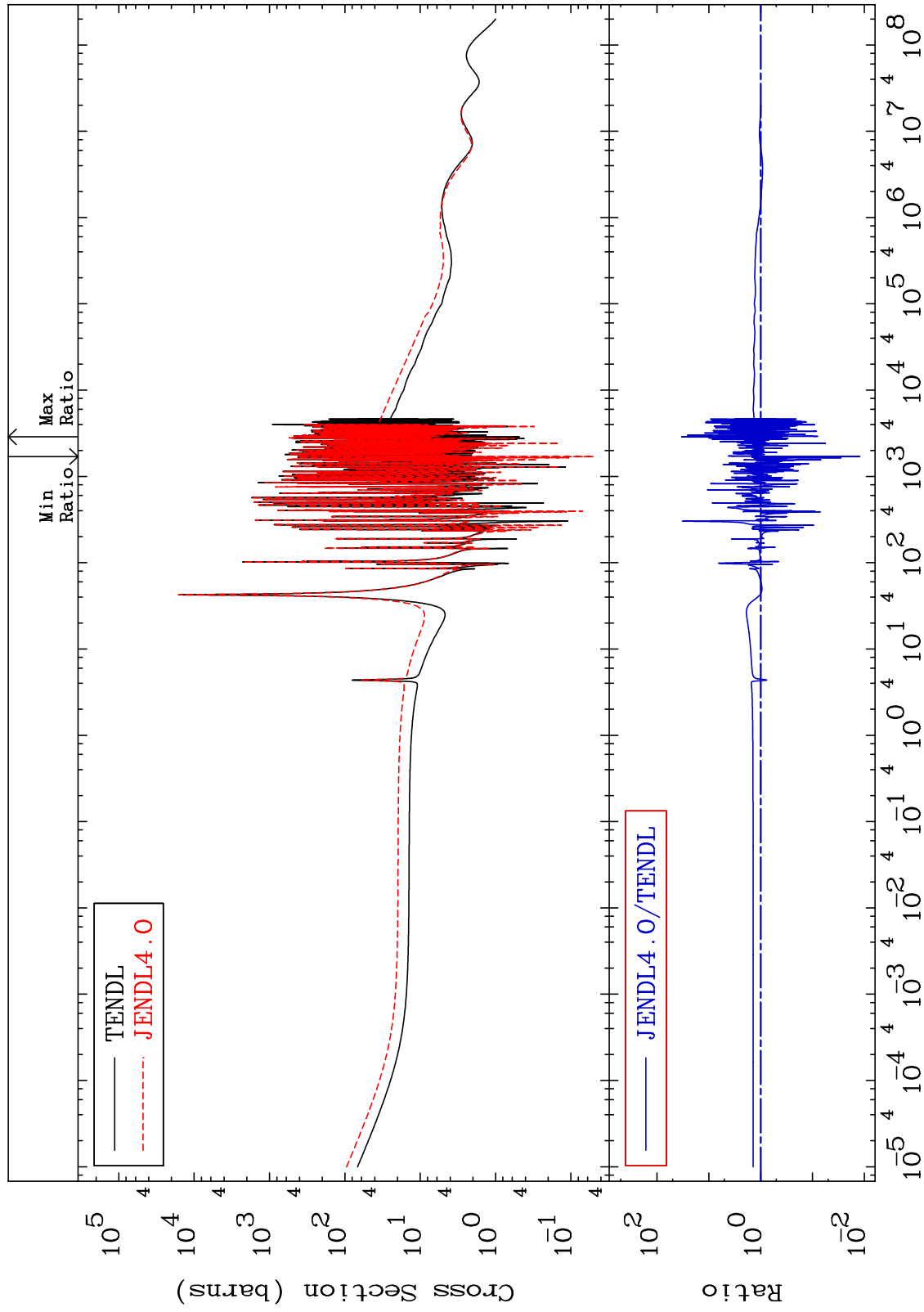
Press Mouse Button to Start



MAT 6034

Elastic
Cross Section

60-Nd-145
-98.78 To 3274. %

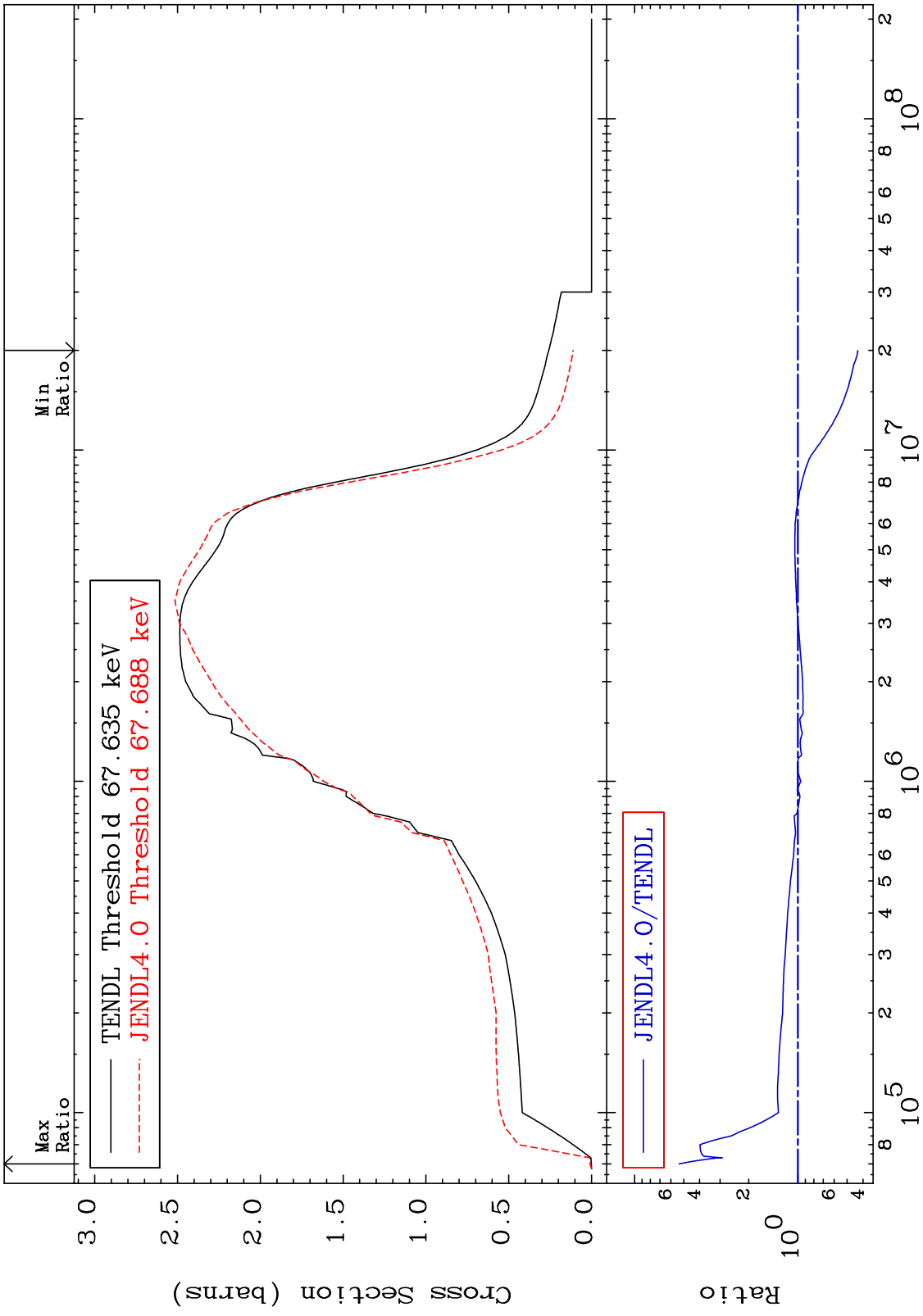


2

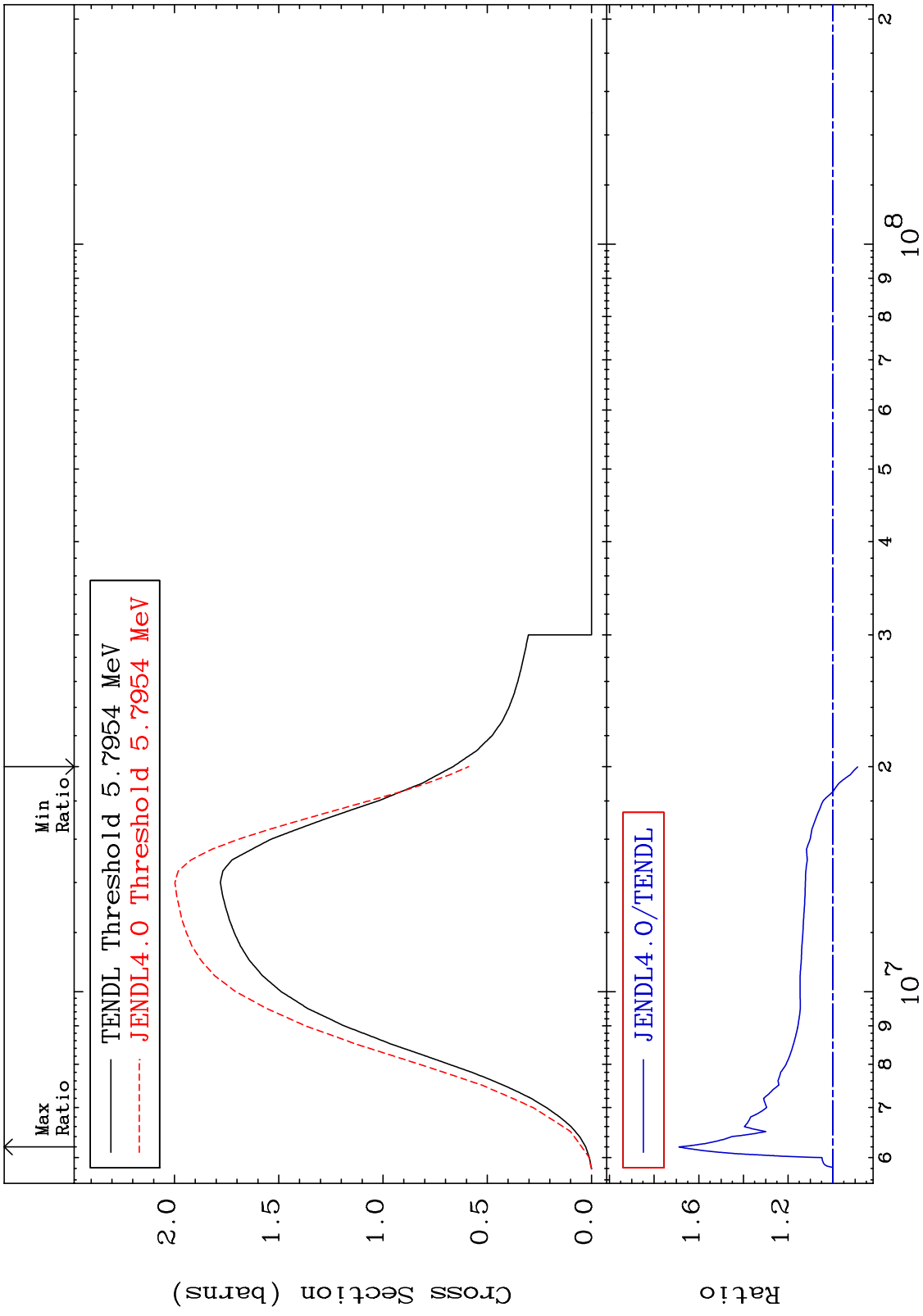
Incident Energy (eV)

60-Nd-145

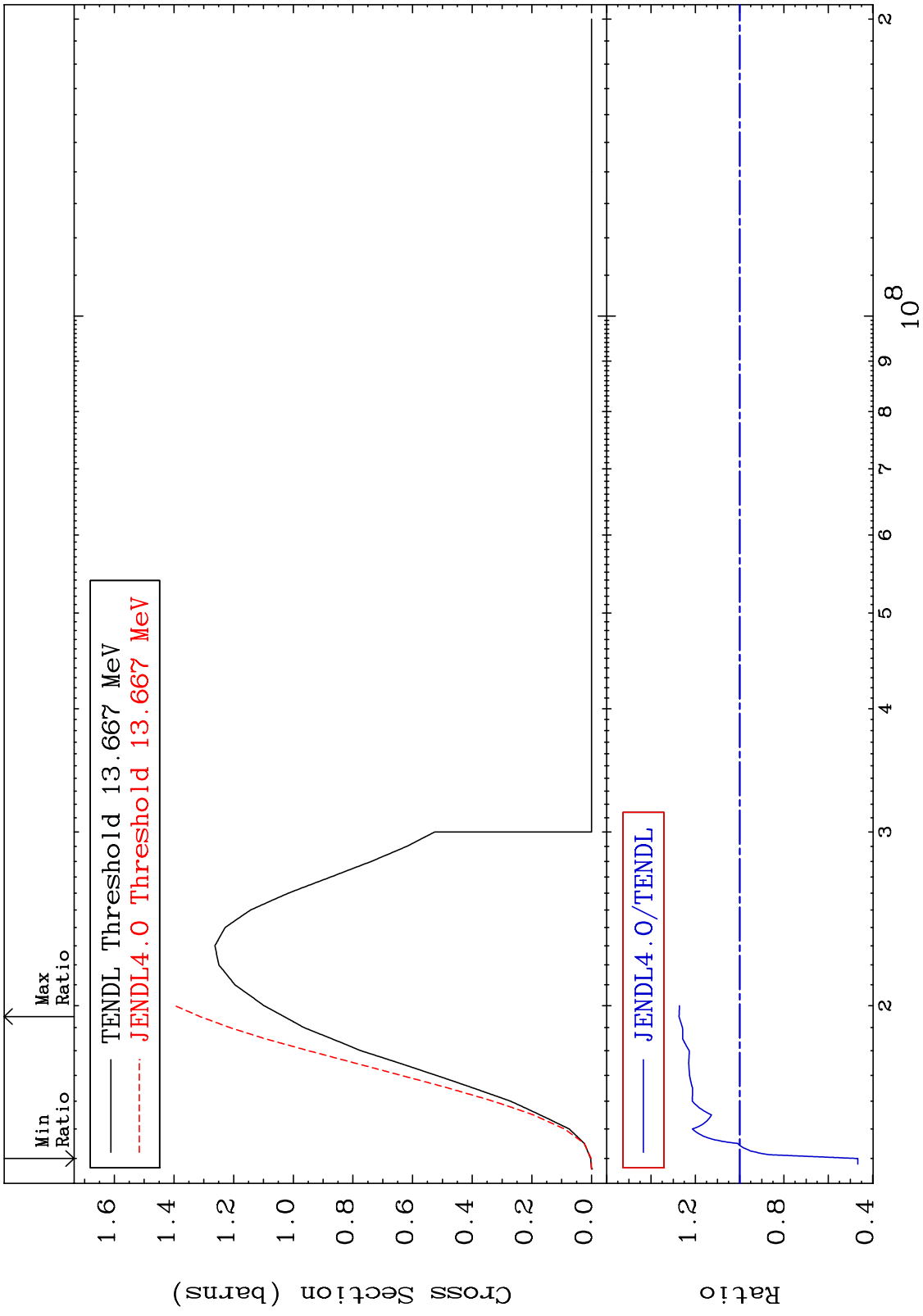
MAT 6034 Inelastic Cross Section 60-Nd-145 -57.02 To 434.5 %



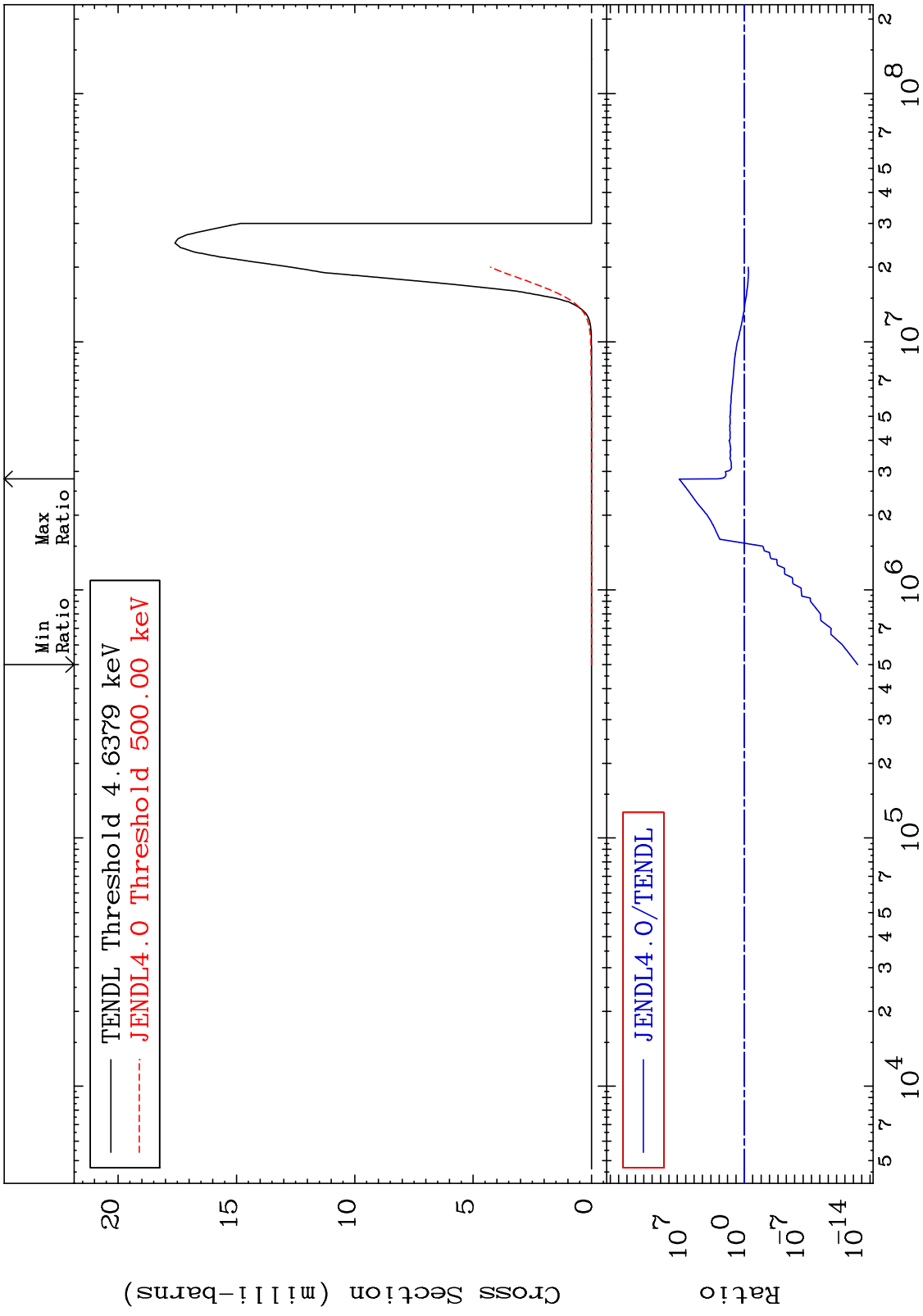
MAT 6034 (n,2n) Cross Section 60-Nd-145 -11.24 To 68.84 %



MAT 6034 (n,3n) Cross Section 60-Nd-145 -53.34 To 27.36 %

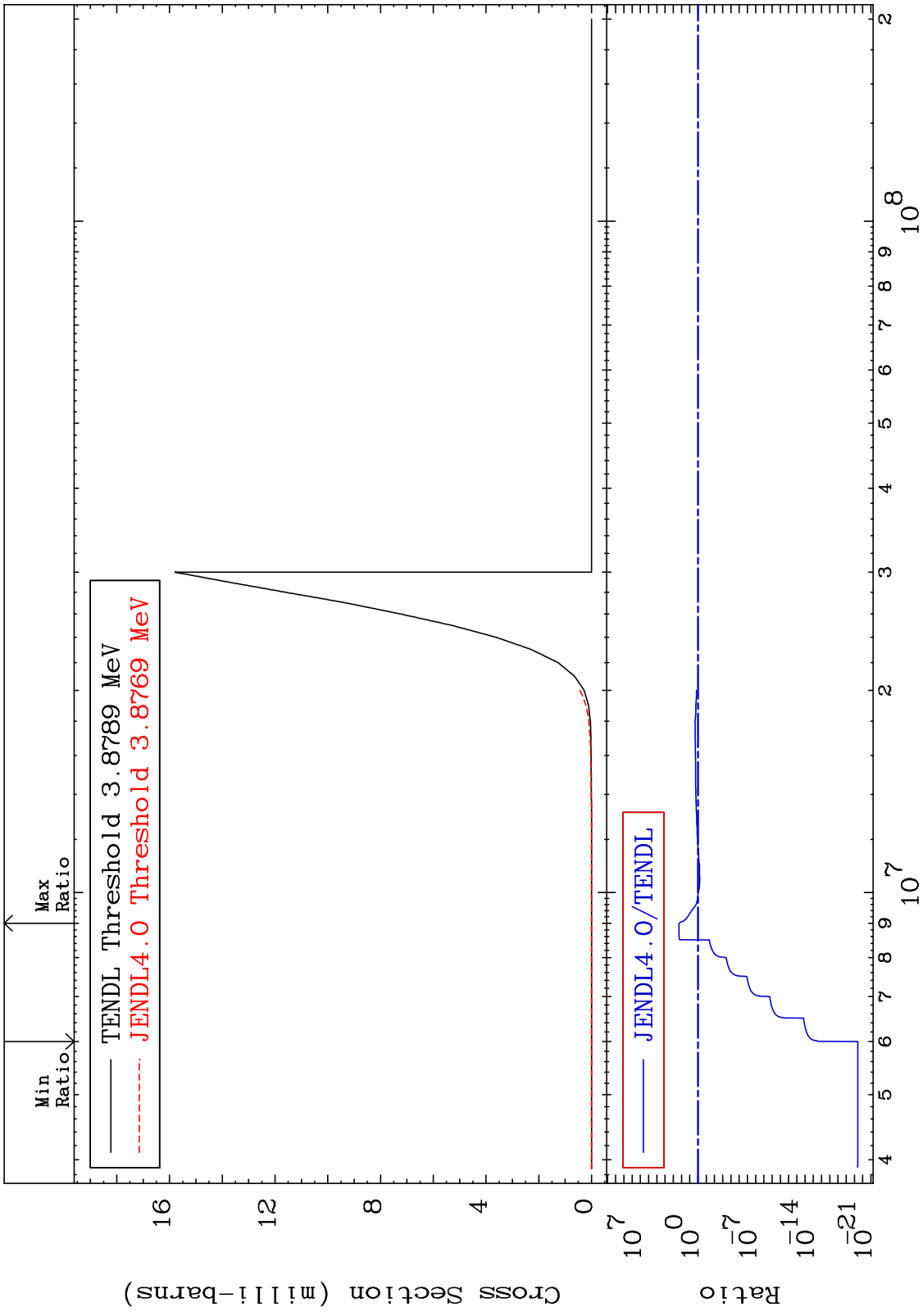


MAT 6034 $(n, n') \alpha$ $^{60}\text{Nd-145}$
 -100.0 To 9999. %



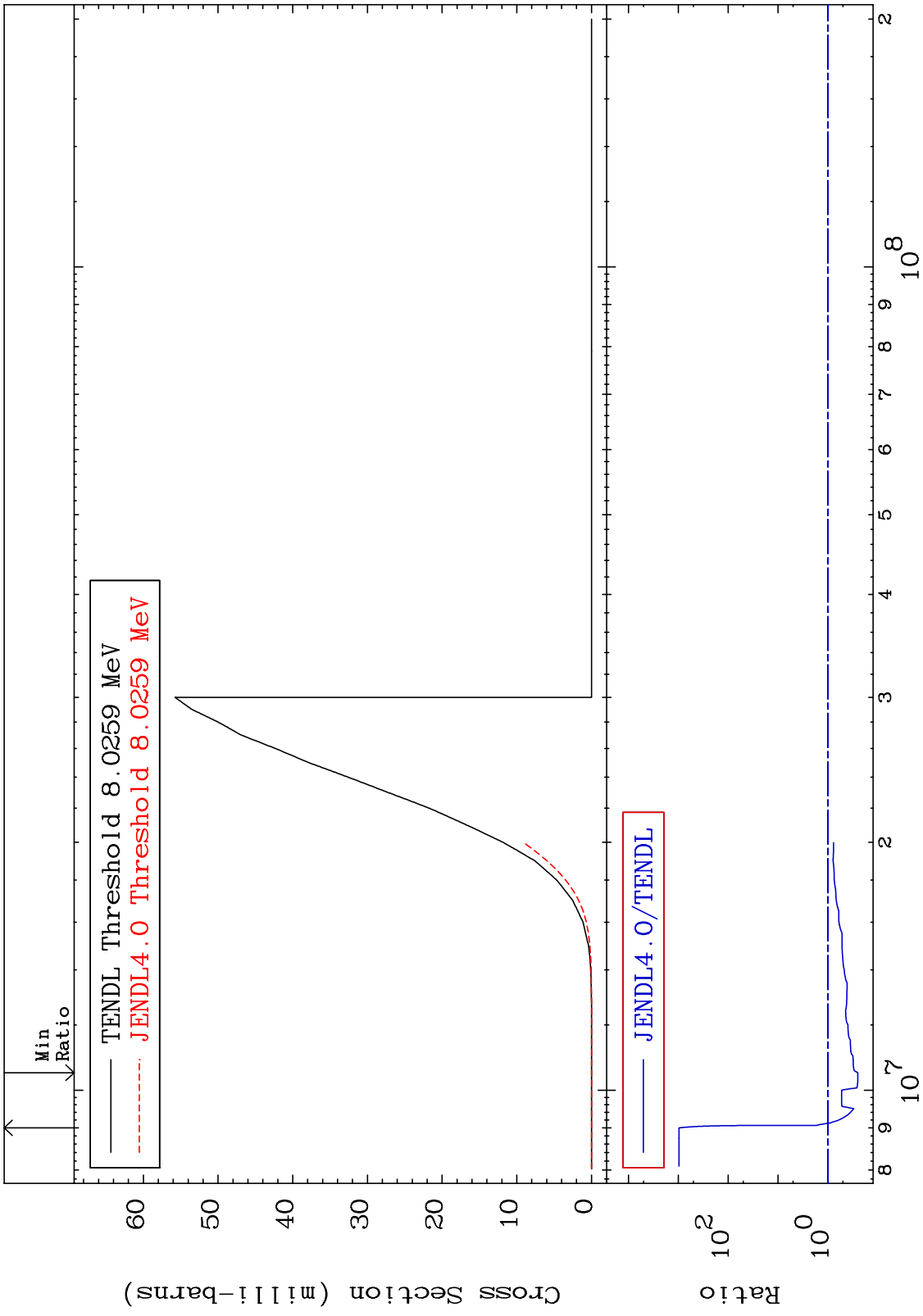
6 Incident Energy (eV) $^{60}\text{Nd-145}$

MAT 6034 $(n, 2n) \alpha$ $^{60}\text{Nd-145}$
 Cross Section -100.0 To 9999. %



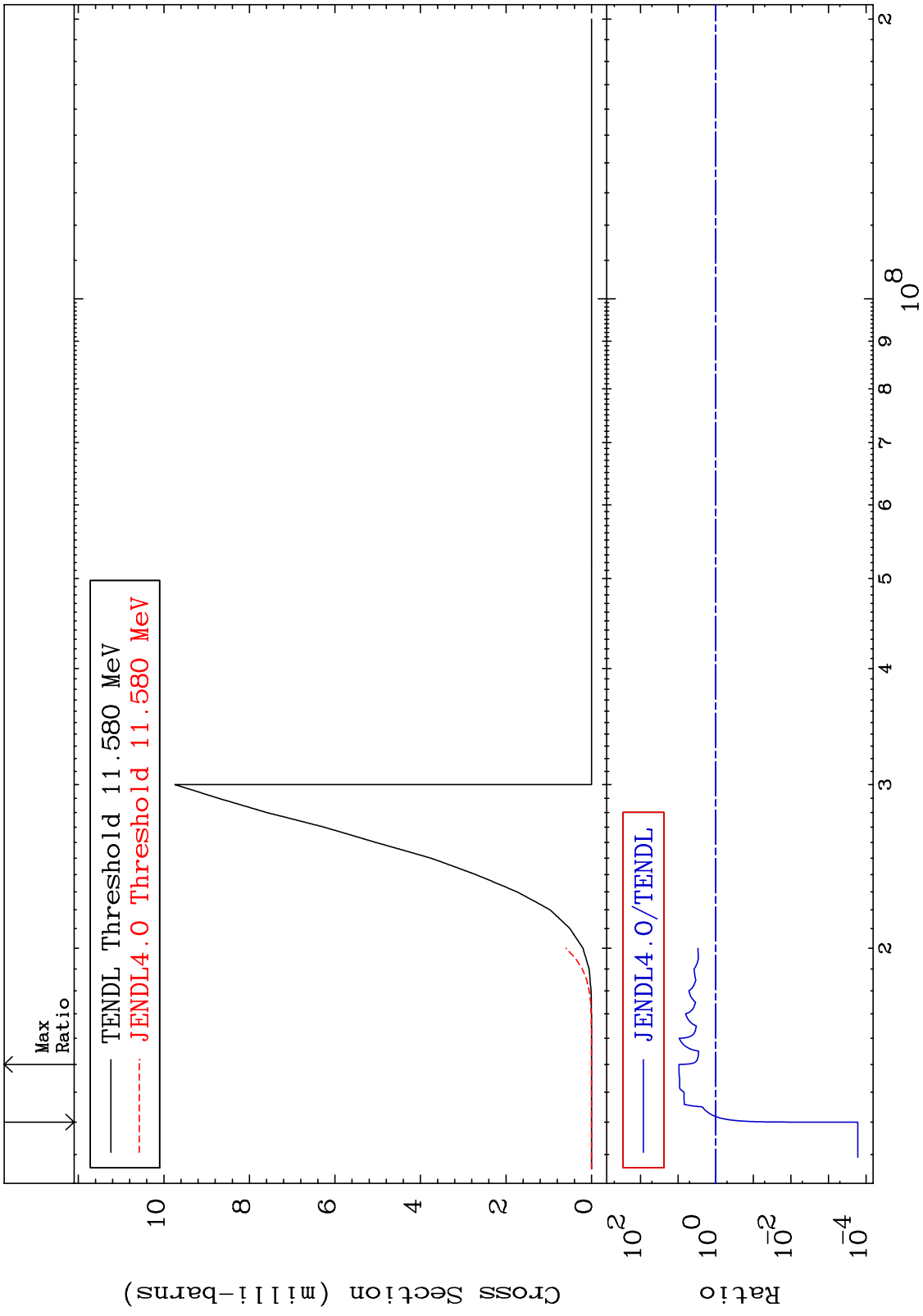
7 4 5 6 7 8 9 10⁷ 10⁸ 2
 $^{60}\text{Nd-145}$

MAT 6034 (n,n') p 60-Nd-145
Cross Section -74.99 To 9999. %

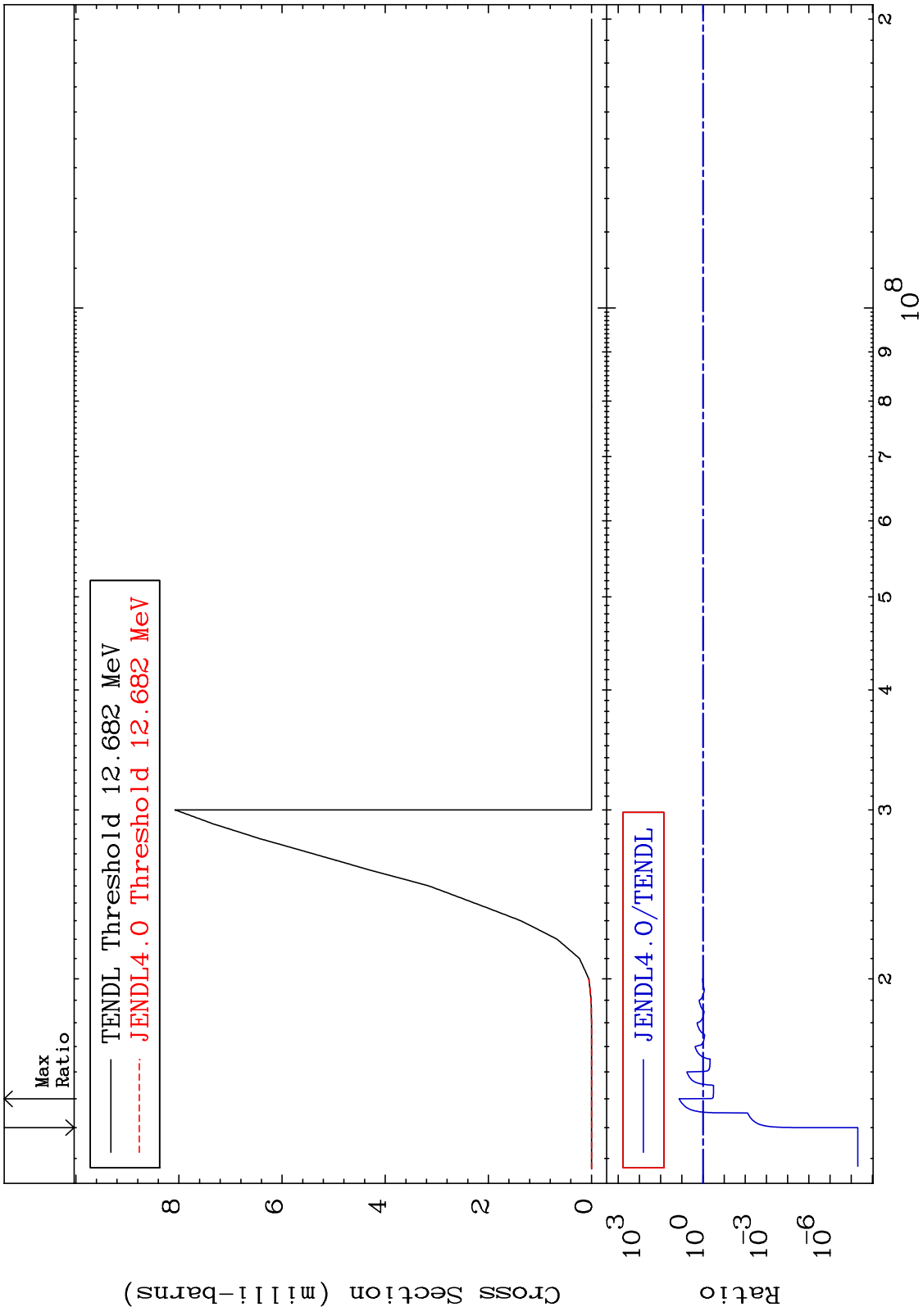


8 8 9 10⁷ 10⁸ Incident Energy (eV) 60-Nd-145

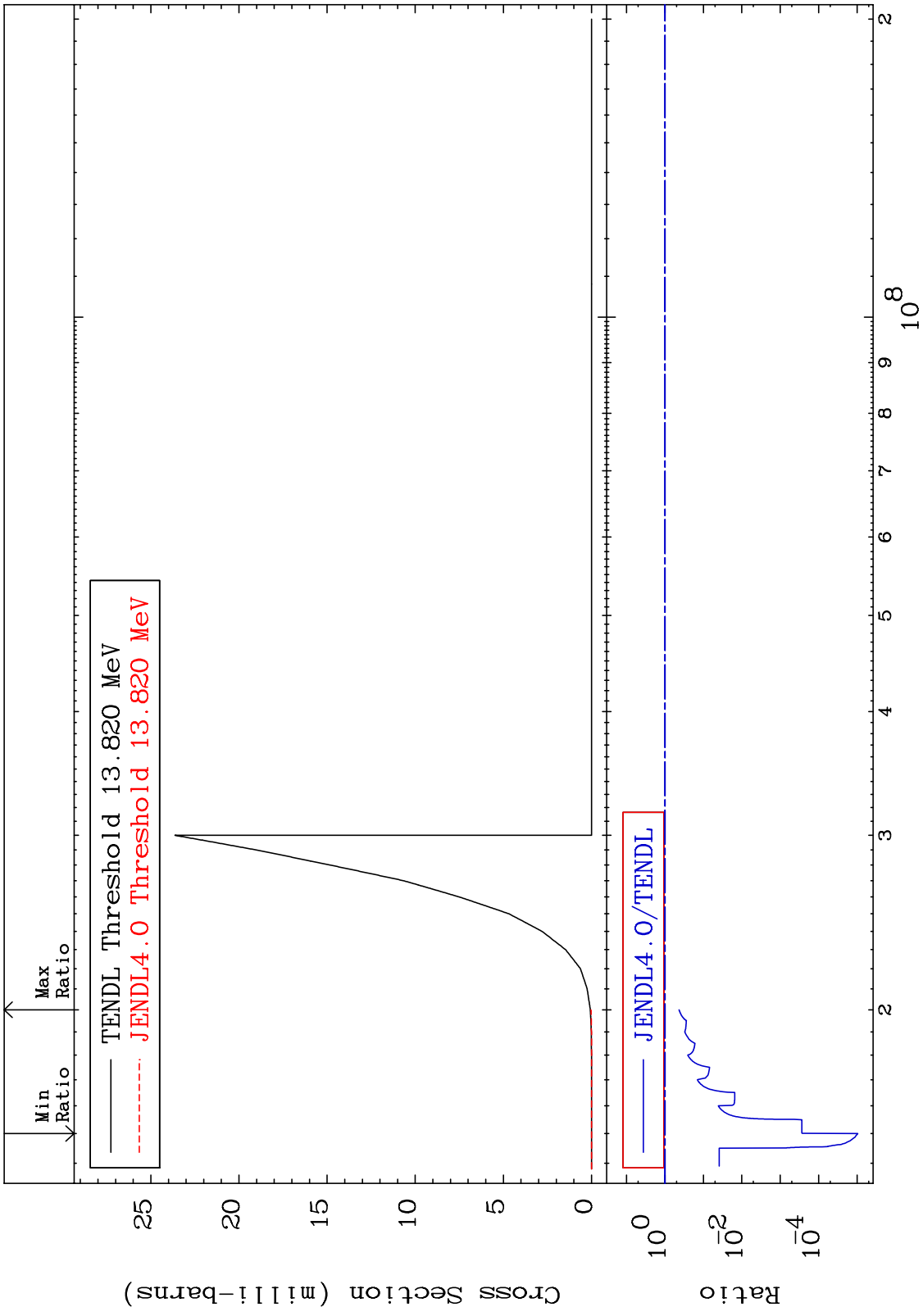
MAT 6034 (n, n') d 60-Nd-145
 Cross Section -99.98 To 844.7 %



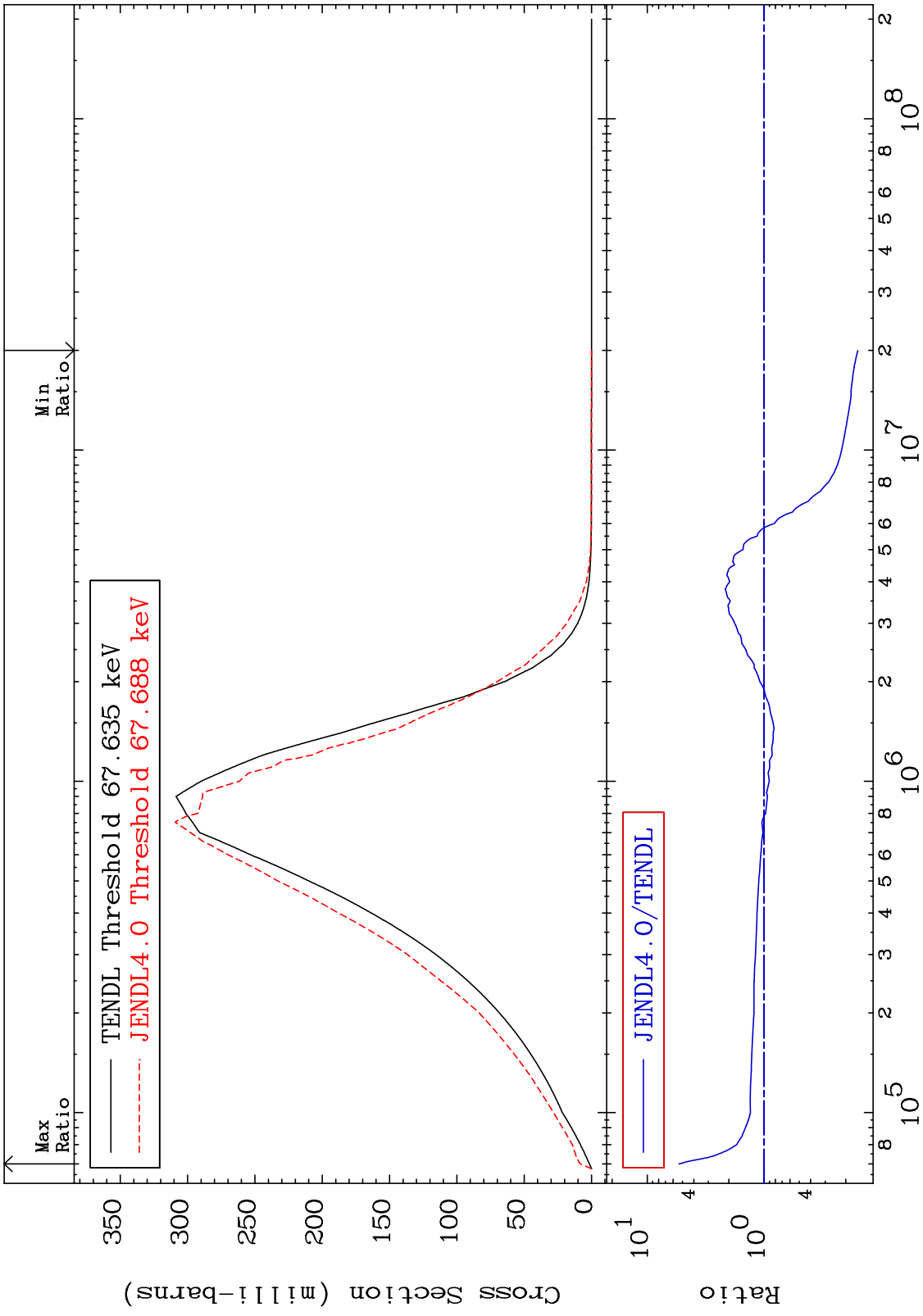
MAT 6034 (n,n') t 60-Nd-145
Cross Section -100.0 To 1245. %



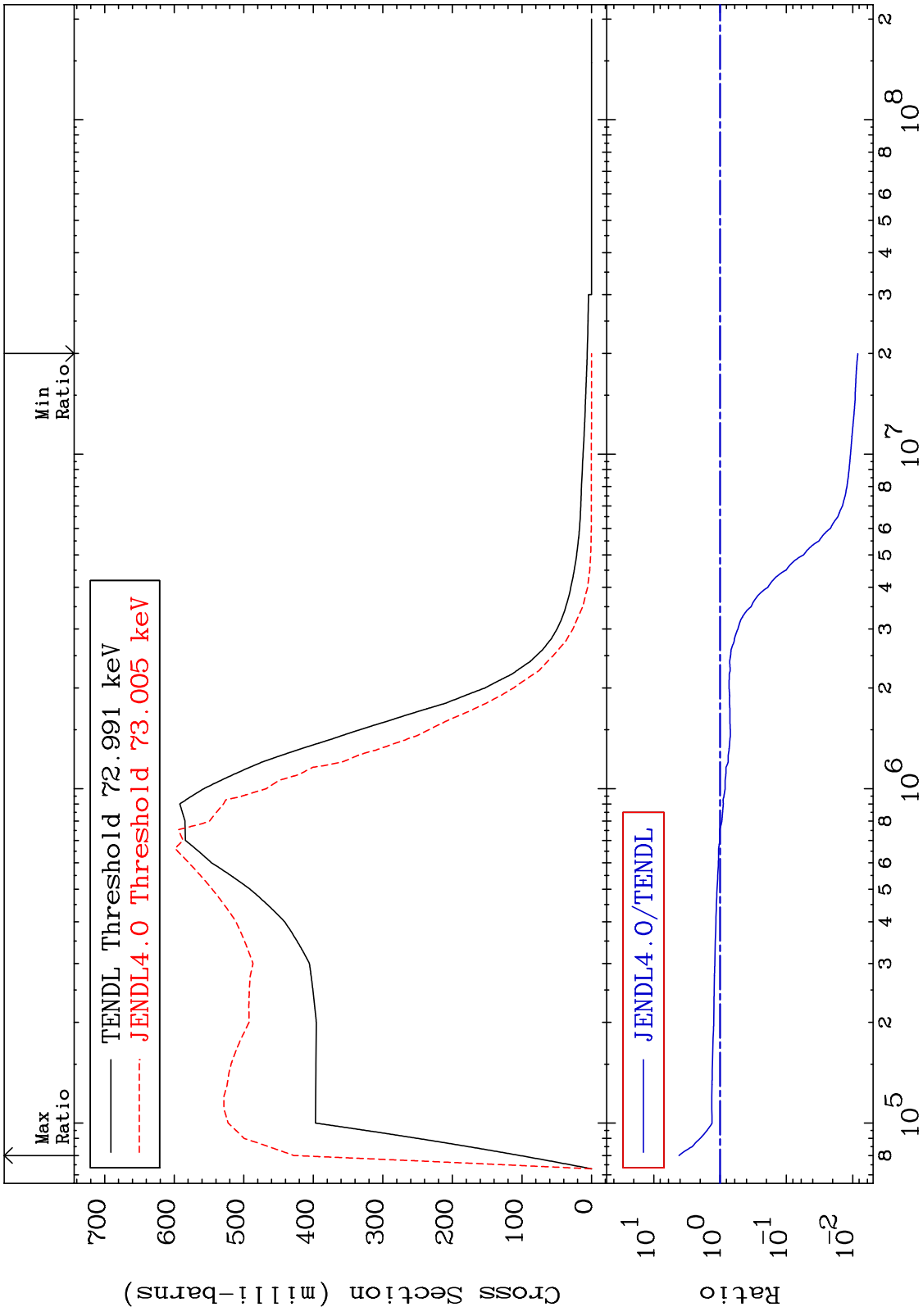
MAT 6034 (n,2n) p 60-Nd-145
 Cross Section -100.0 To -57.12%



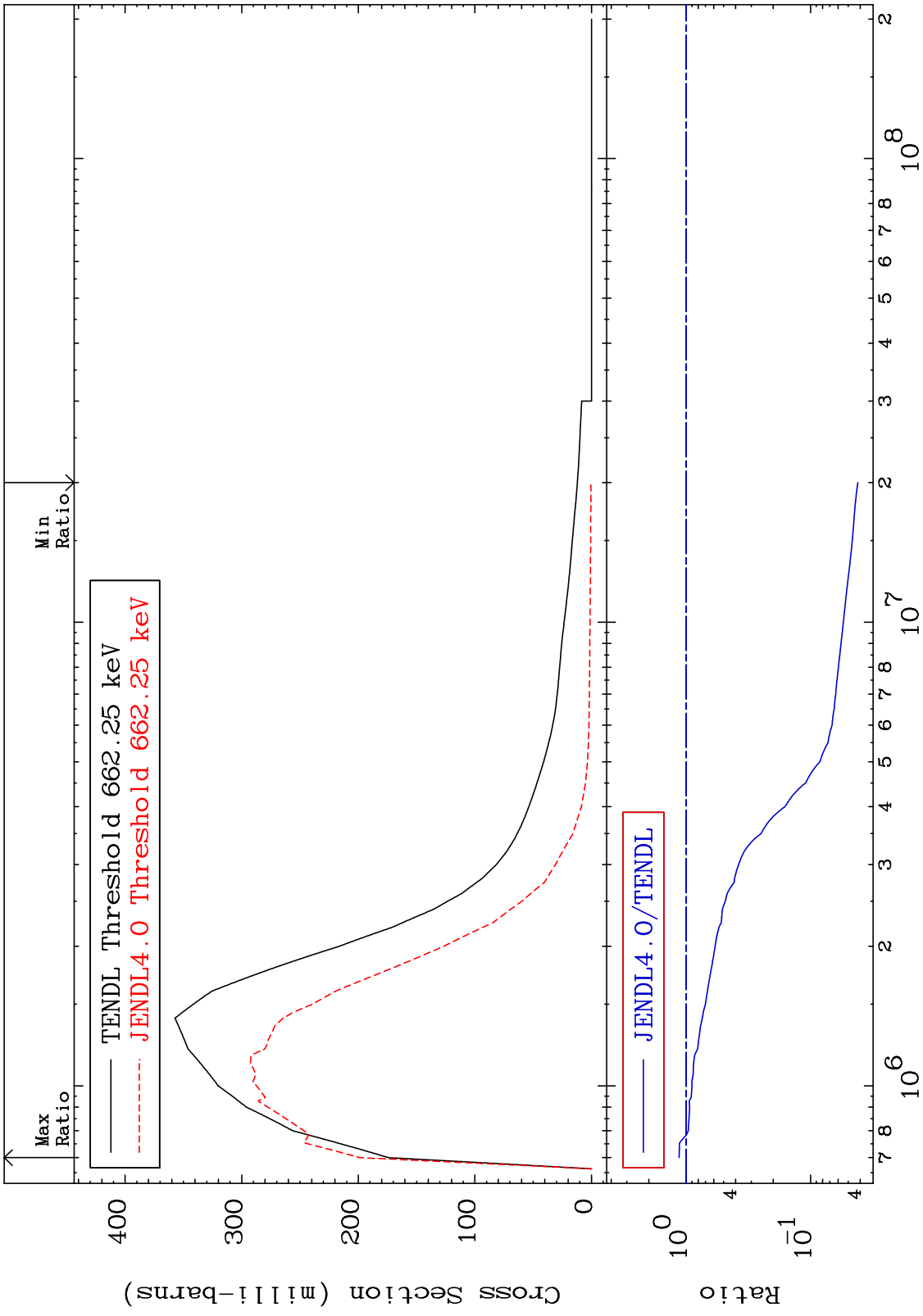
MAT 6034 MT= 51 (n,n') Level Cross Section 60-Nd-145
 -84.26 To 434.5 %



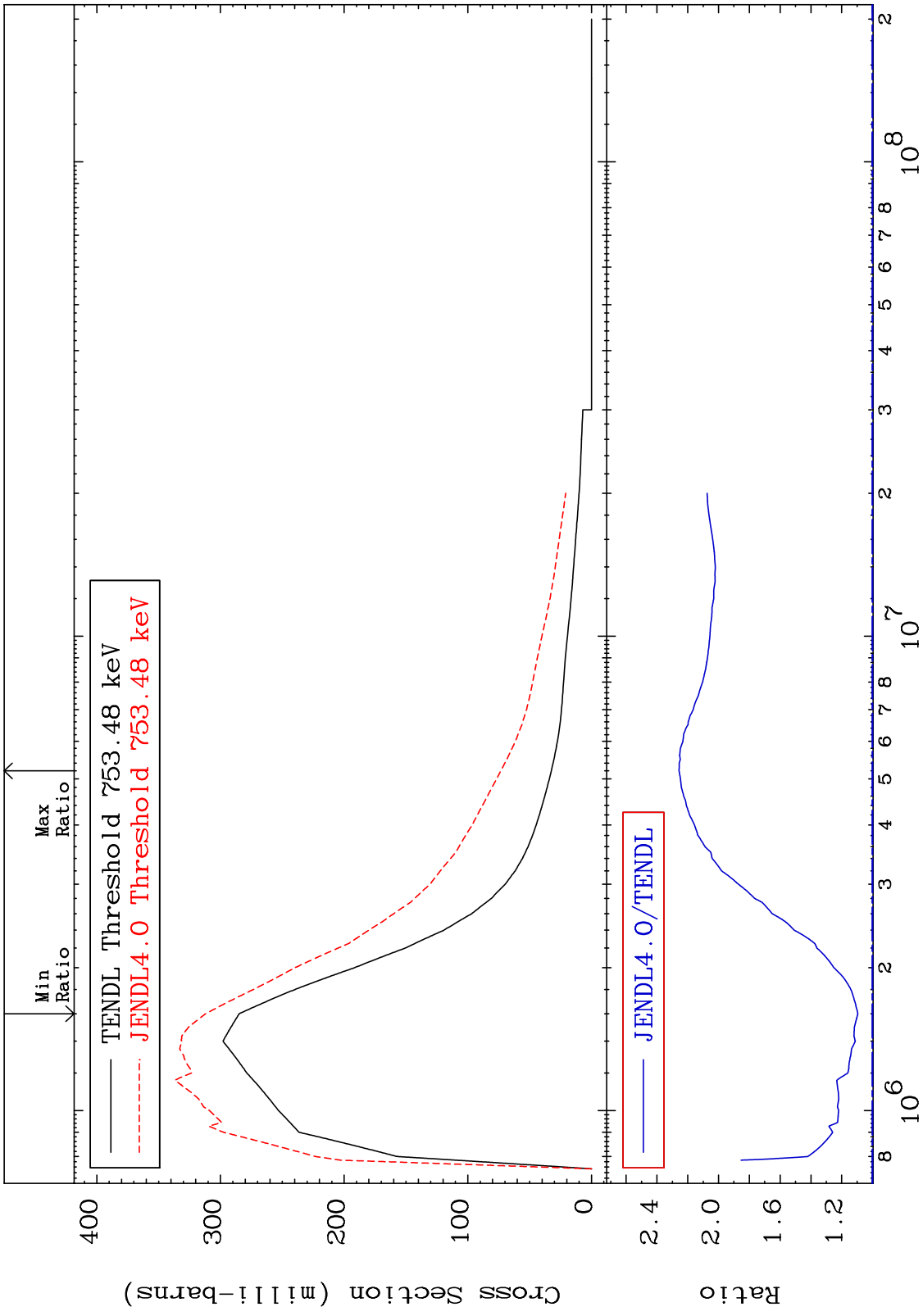
MAT 6034 MT= 52 (n,n') Level Cross Section 60-Nd-145
 -99.16 To 315.6 %



MAT 6034 MT= 53 (n,n') Level Cross Section 60-Nd-145
 -95.83 To 14.08 %

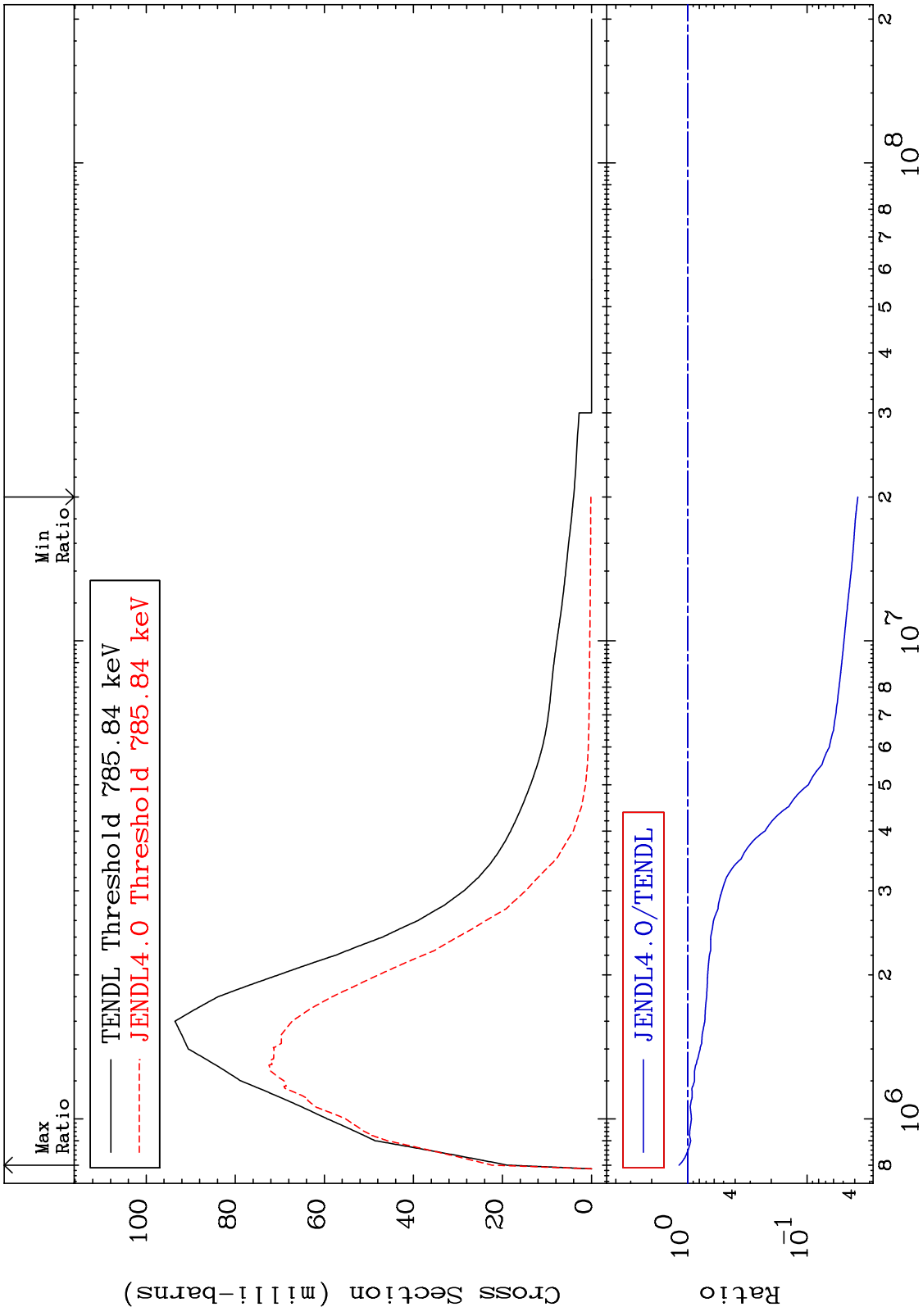


MAT 6034 MT= 54 (n,n') Level Cross Section 60-Nd-145
 9.534 To 125.6 %



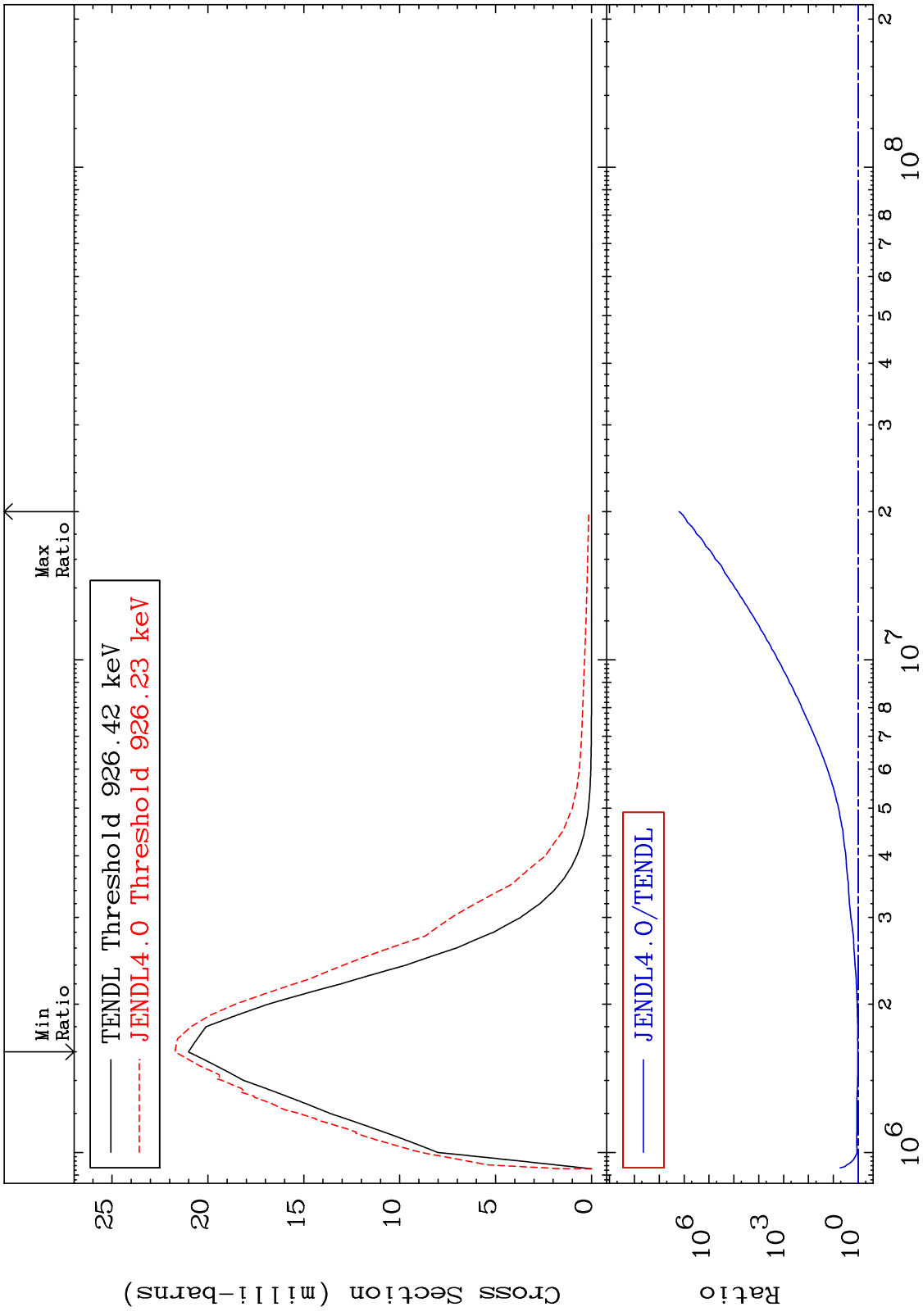
15 60-Nd-145

MAT 6034 MT= 55 (n,n') Level Cross Section 60-Nd-145
 -96.24 To 18.13 %



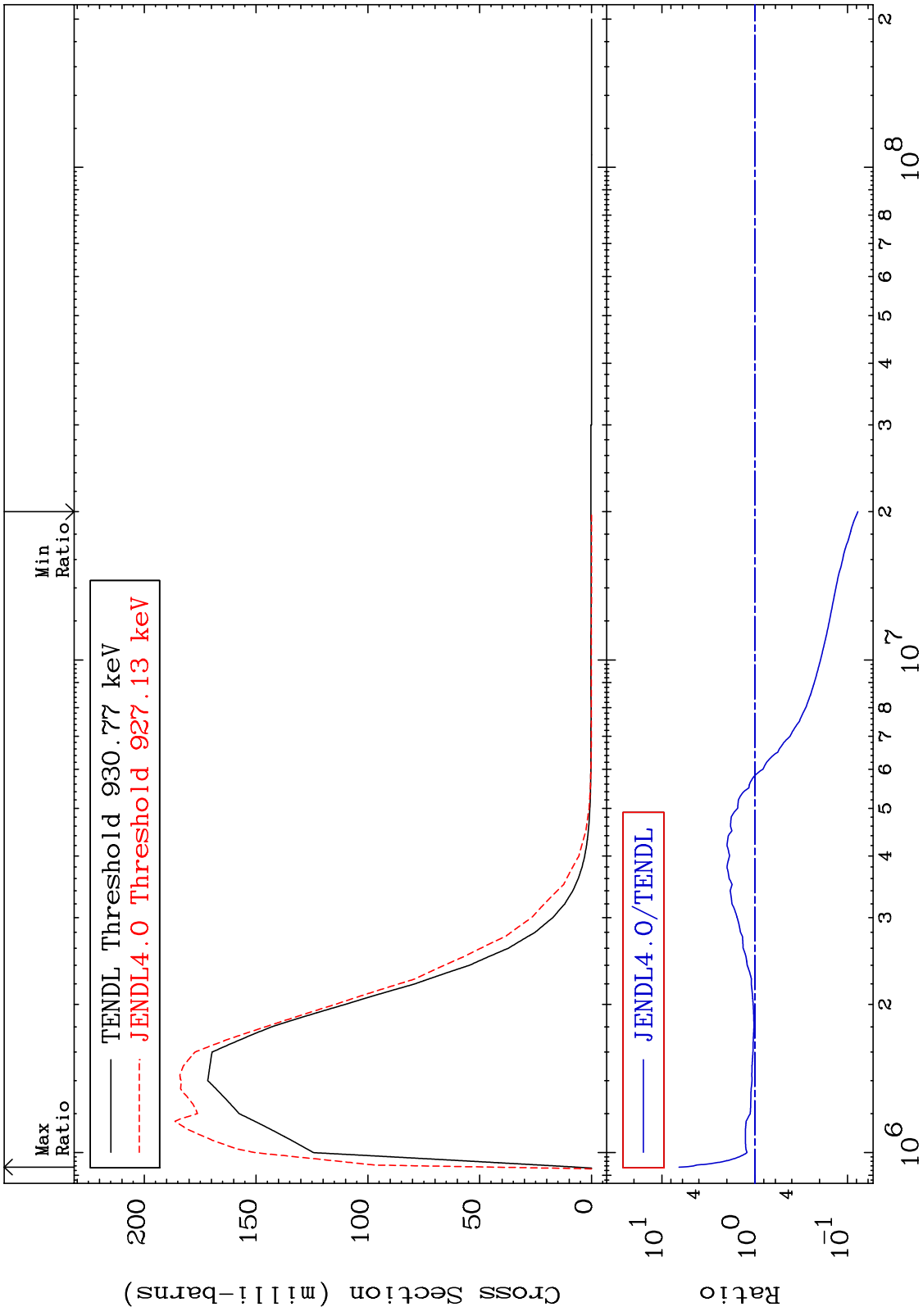
16 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 56 (n,n') Level Cross Section 60-Nd-145 3.332 To 9999. %



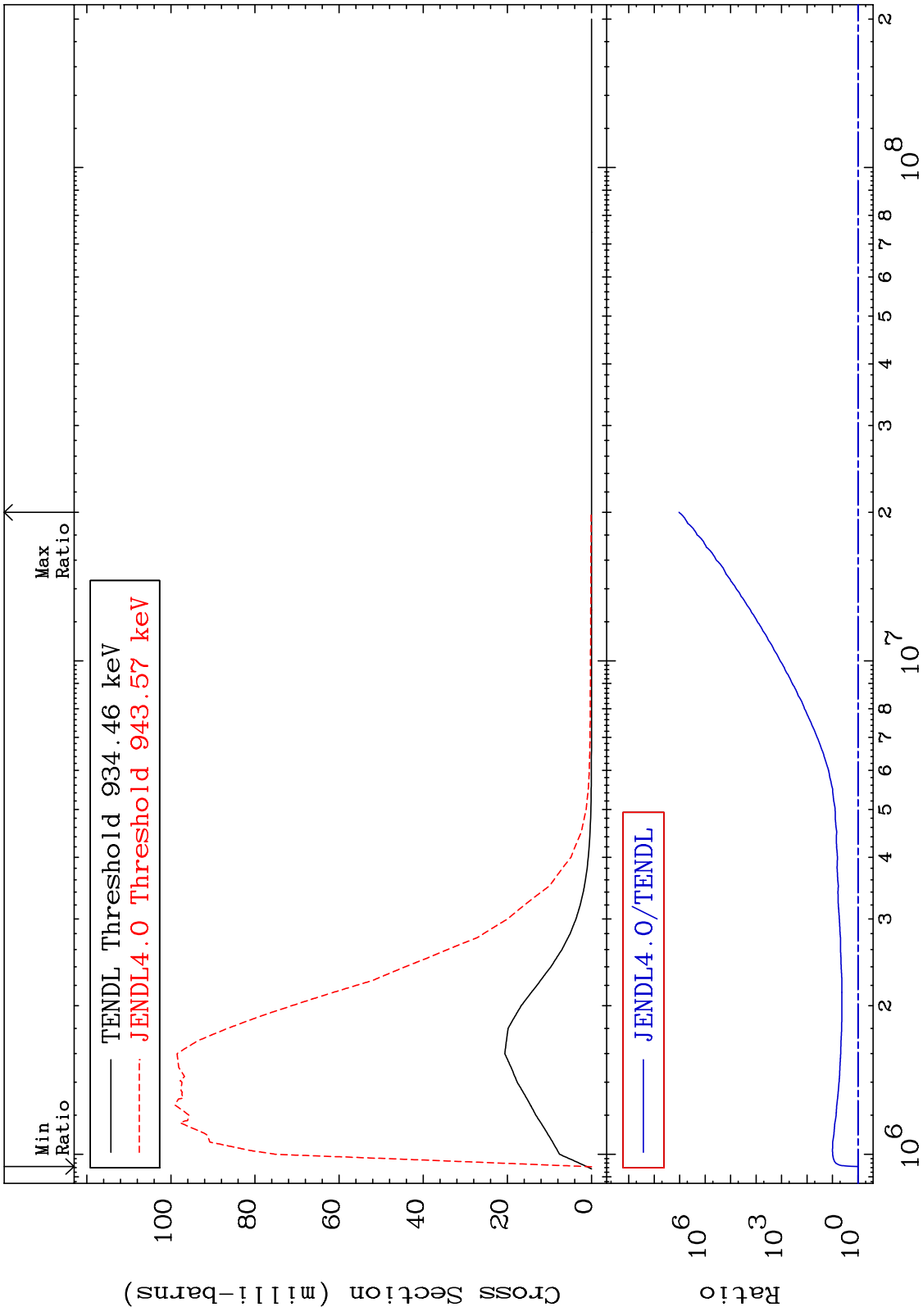
17 Incident Energy (eV) 60-Nd-145

MAT 6034 MT= 57 (n, n') Level Cross Section 60-Nd-145
-92.25 To 554.0 %



18 60-Nd-145

MAT 6034 MT= 58 (n,n') Level Cross Section 60-Nd-145 To 9999. %
 1.203

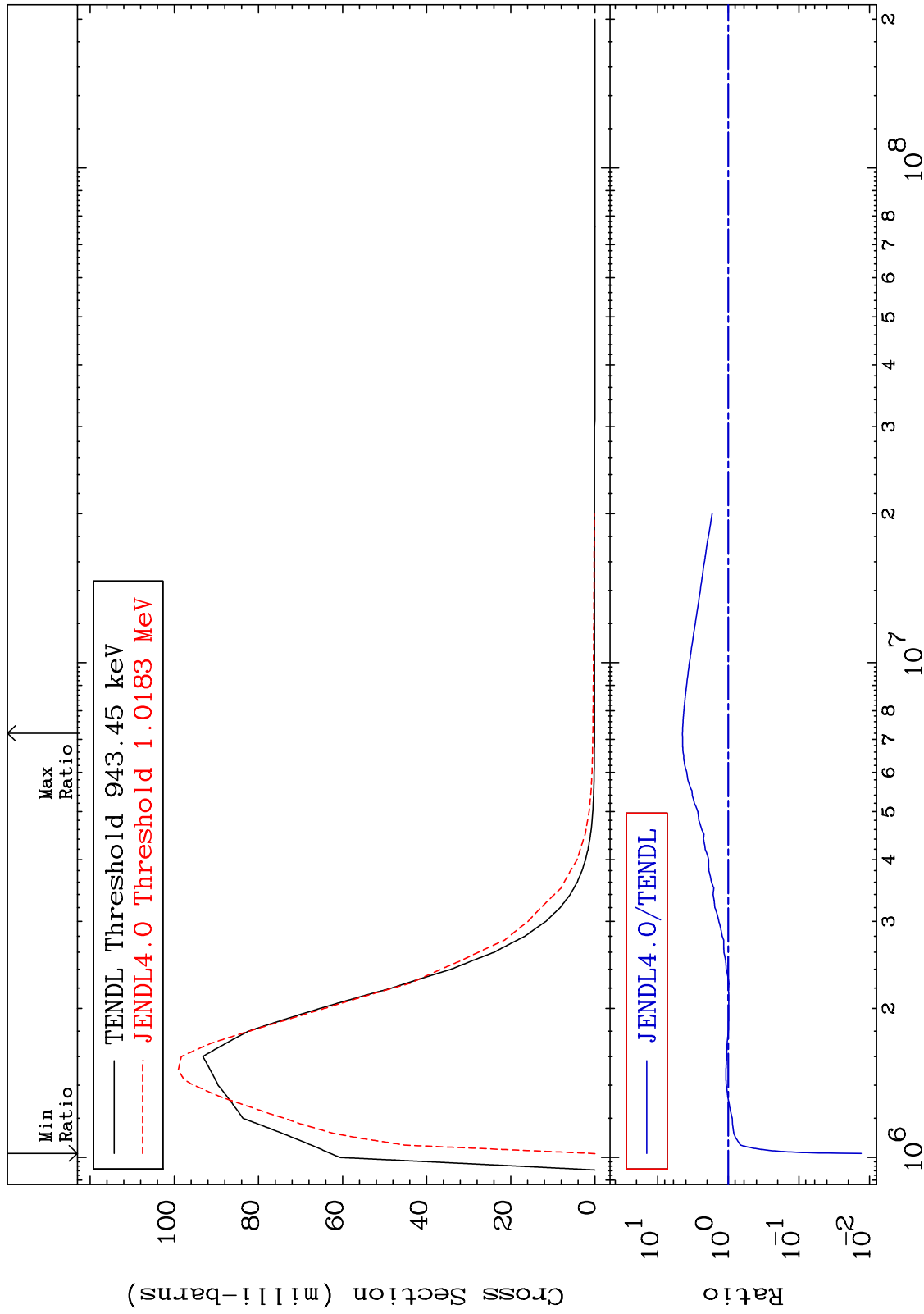


19 Incident Energy (eV) 60-Nd-145

MAT 6034

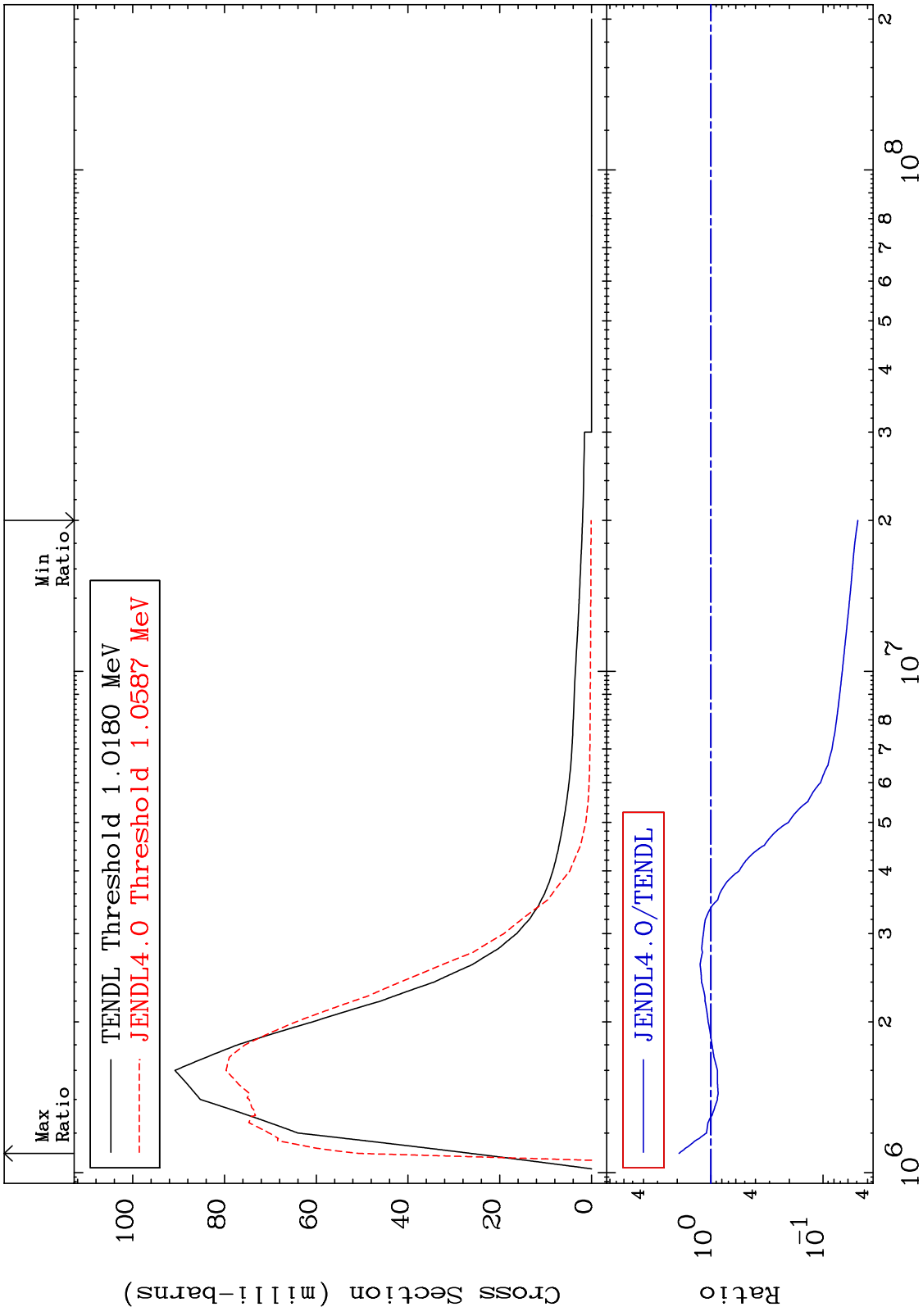
MT= 59 (n,n') Level
Cross Section

60-Nd-145
-98.69 To 347.0 %



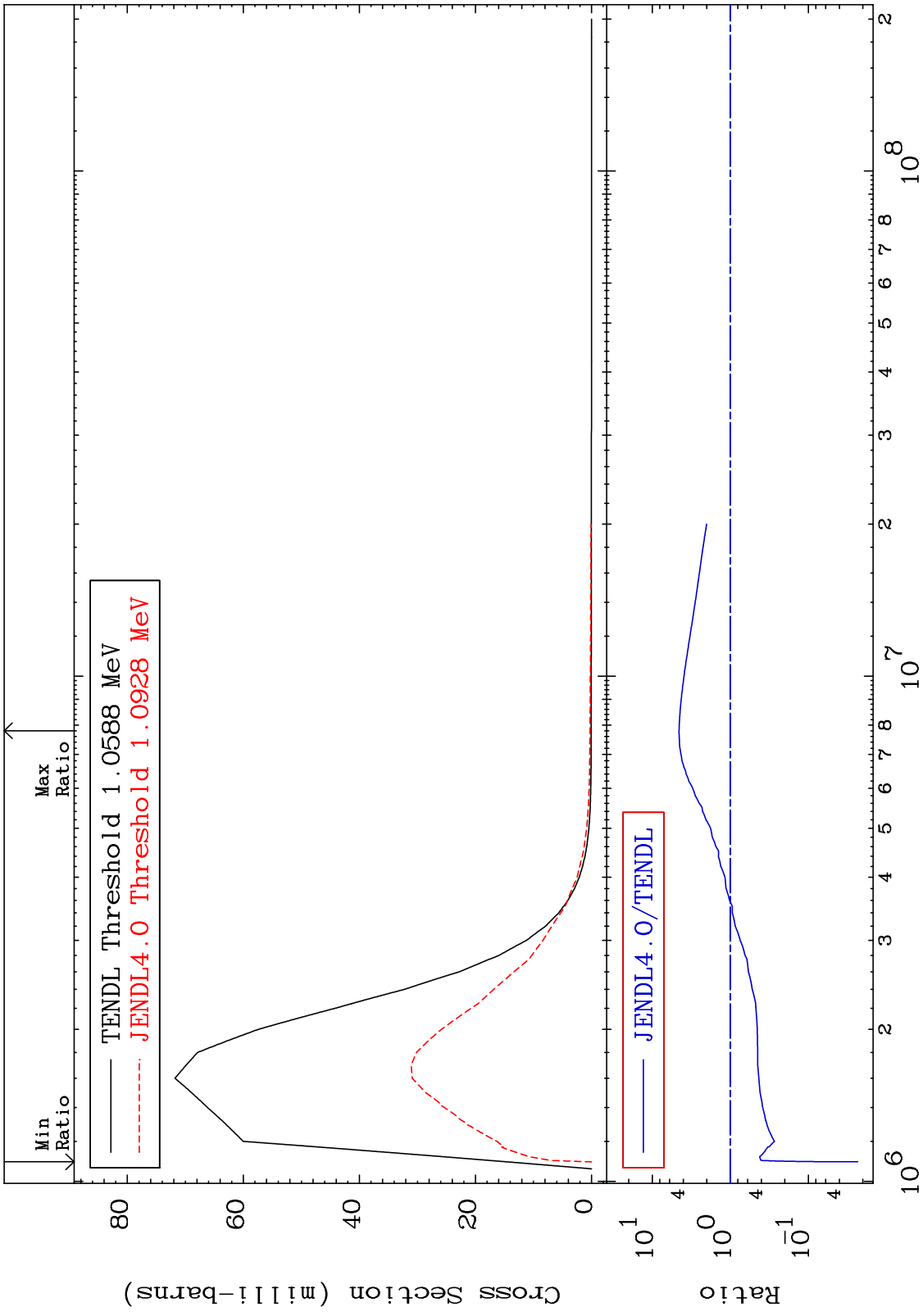
60-Nd-145

MAT 6034 MT= 60 (n,n') Level Cross Section 60-Nd-145
 -95.11 To 92.74 %

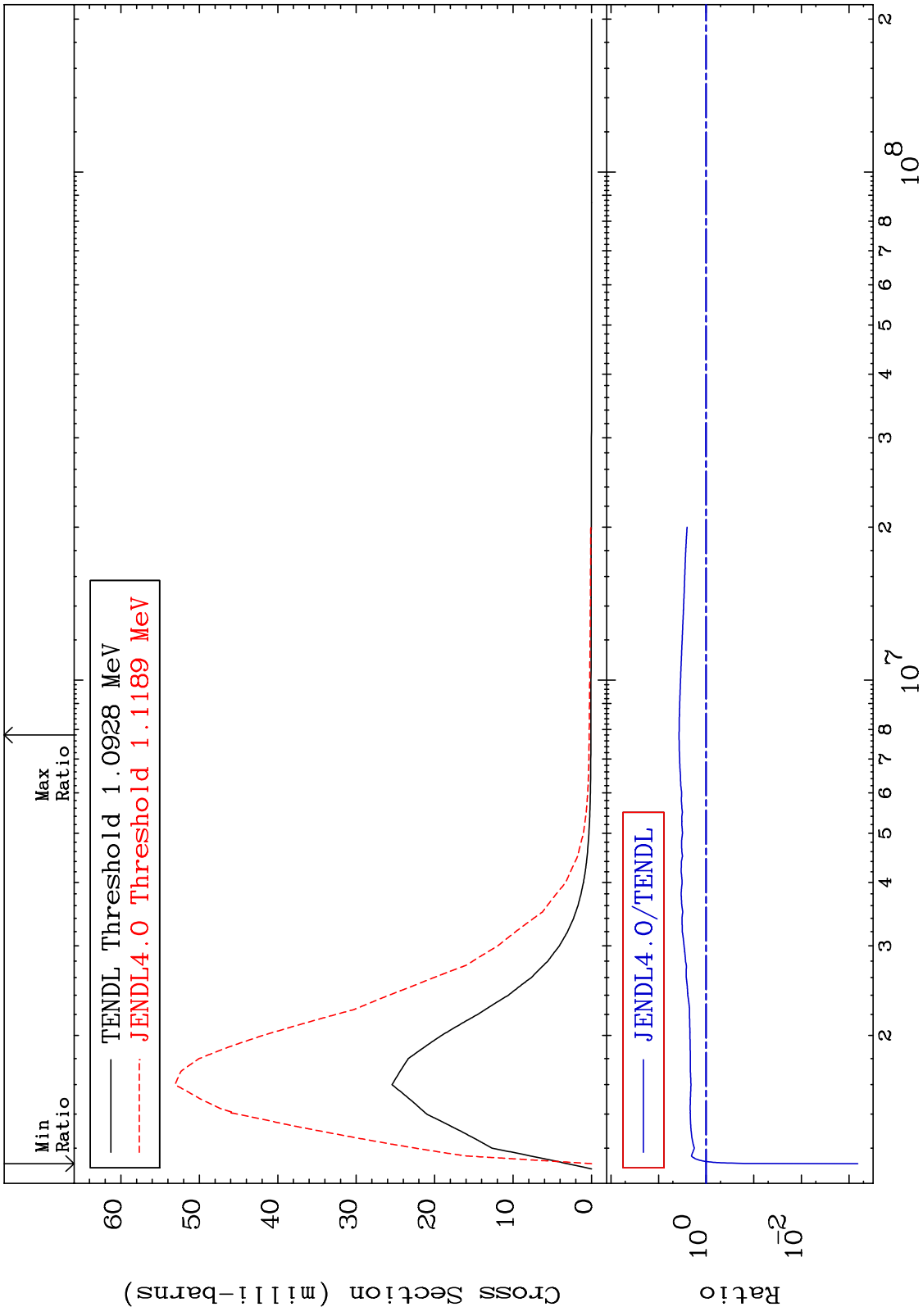


21 Incident Energy (eV) 60-Nd-145

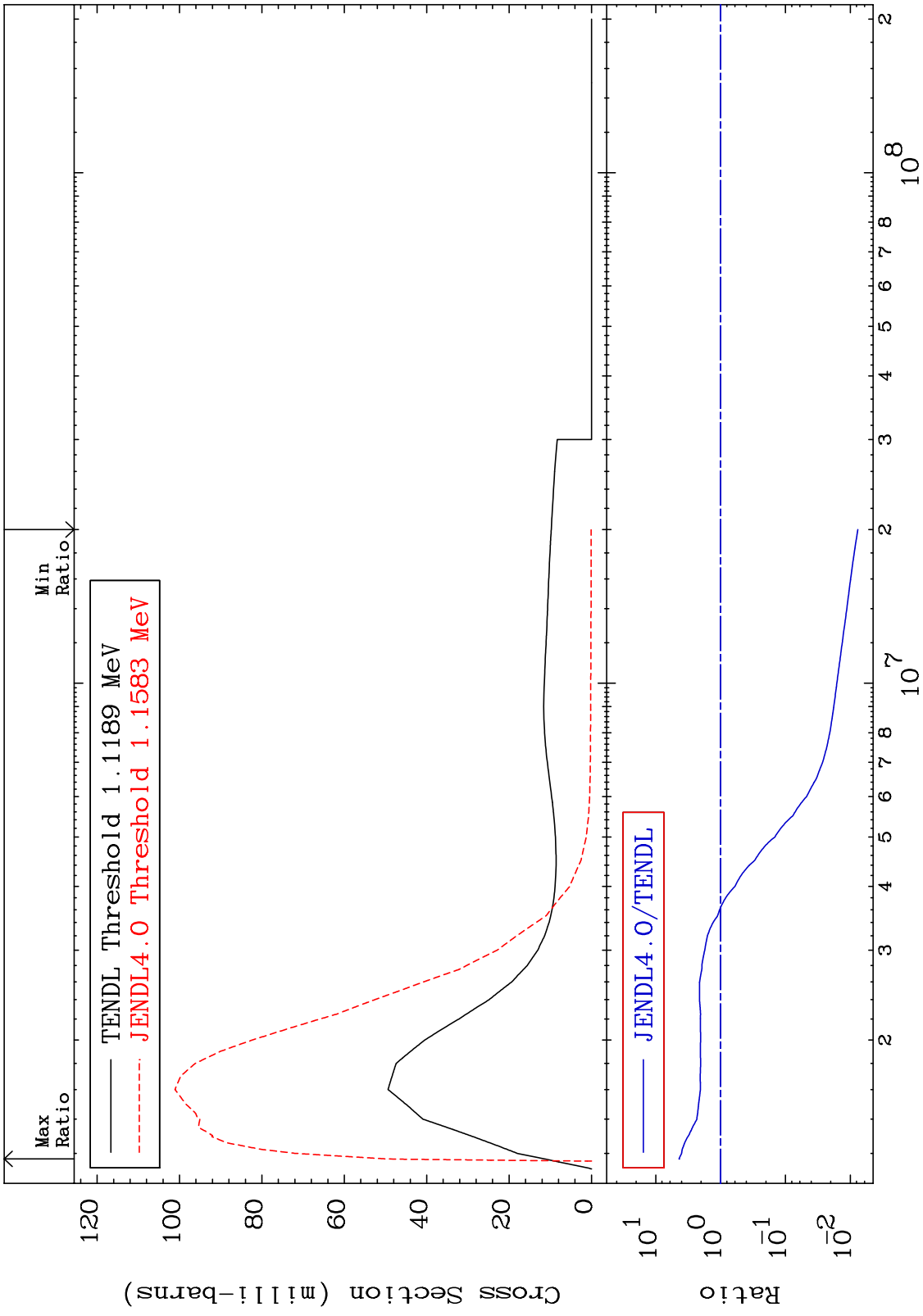
MAT 6034 MT= 61 (n,n') Level Cross Section 60-Nd-145
 -97.68 To 352.9 %



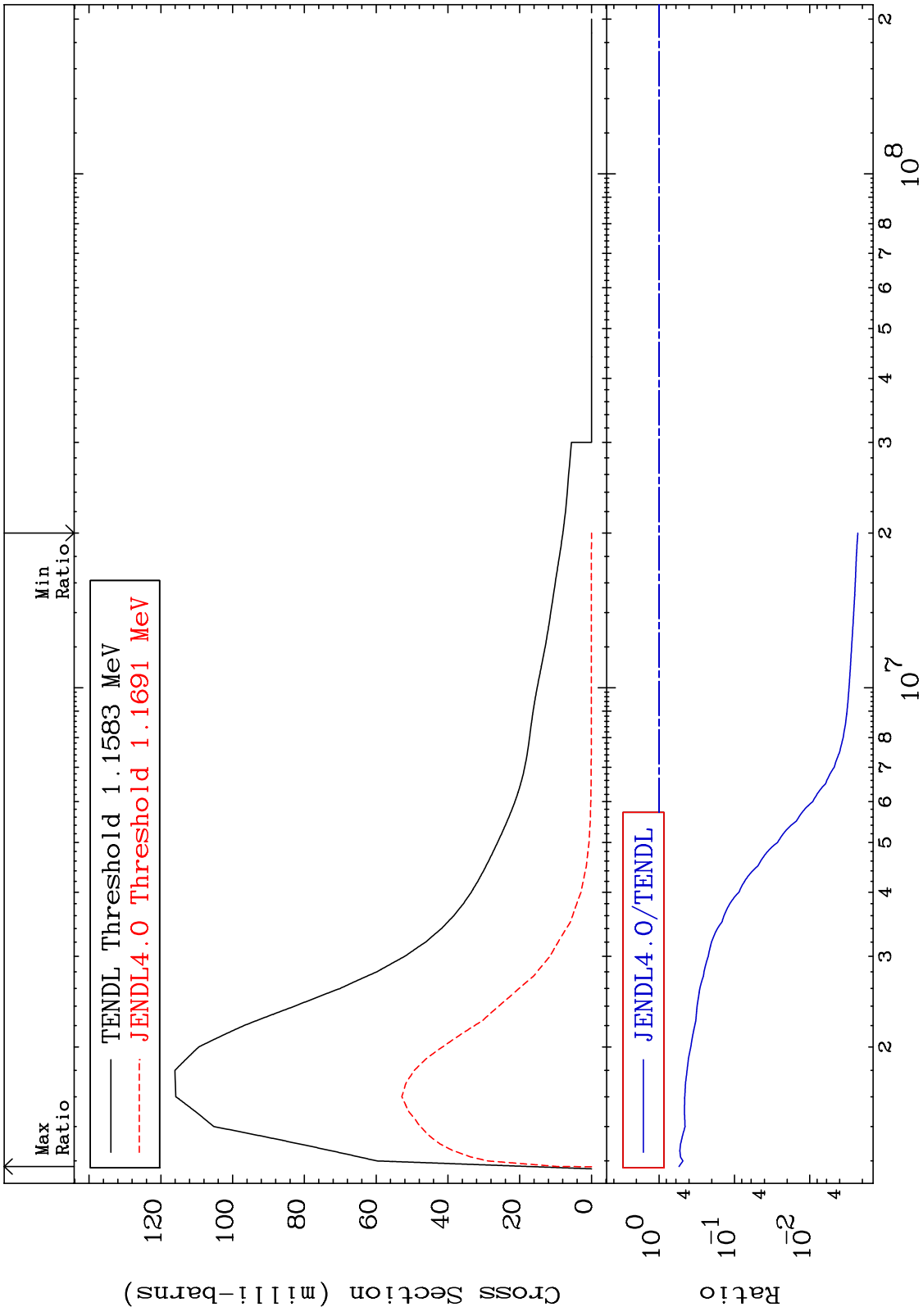
MAT 6034 MT= 62 (n,n') Level Cross Section 60-Nd-145
 -99.93 To 271.2 %



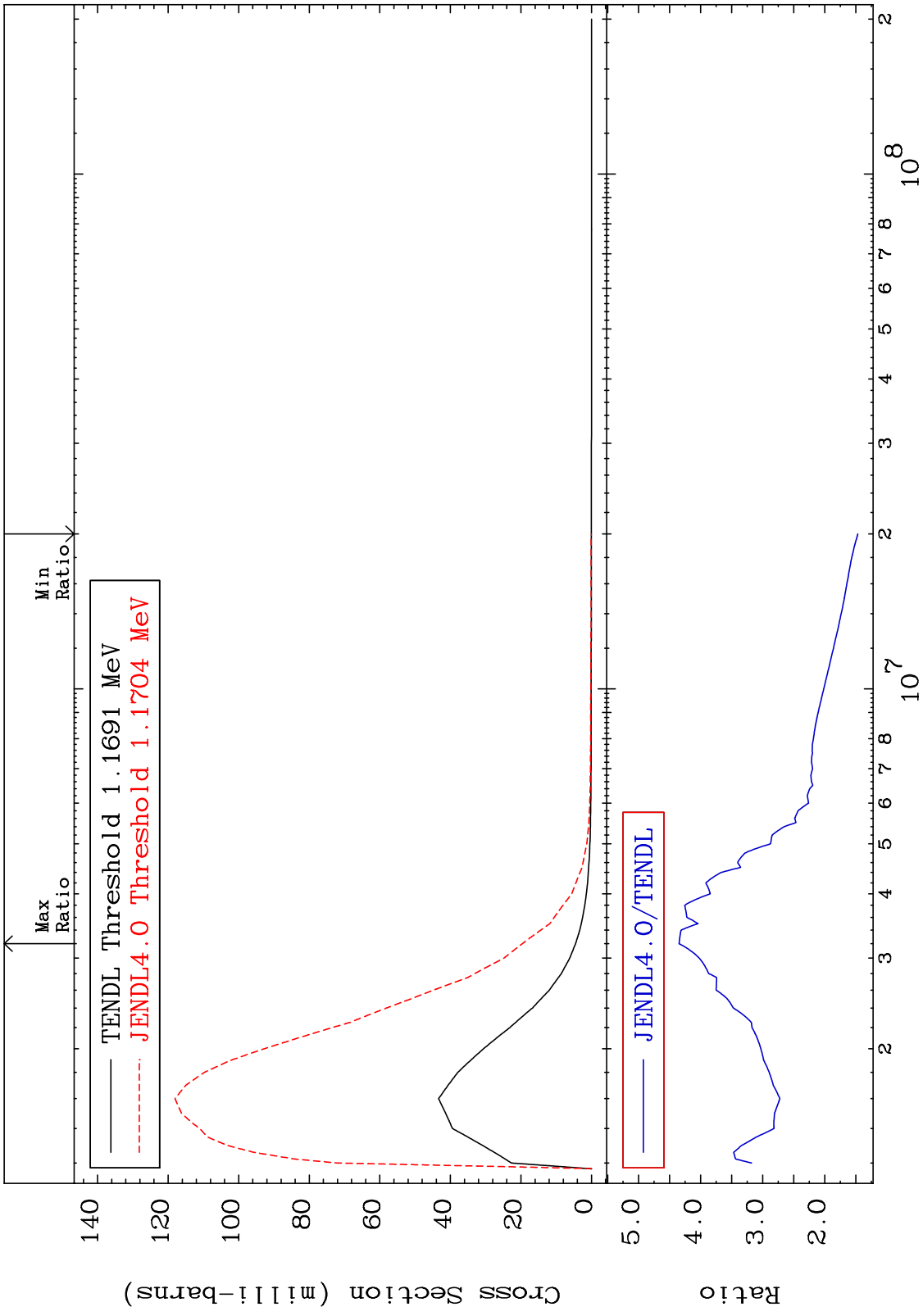
MAT 6034 MT= 63 (n,n') Level Cross Section 60-Nd-145
 -99.24 To 336.8 %



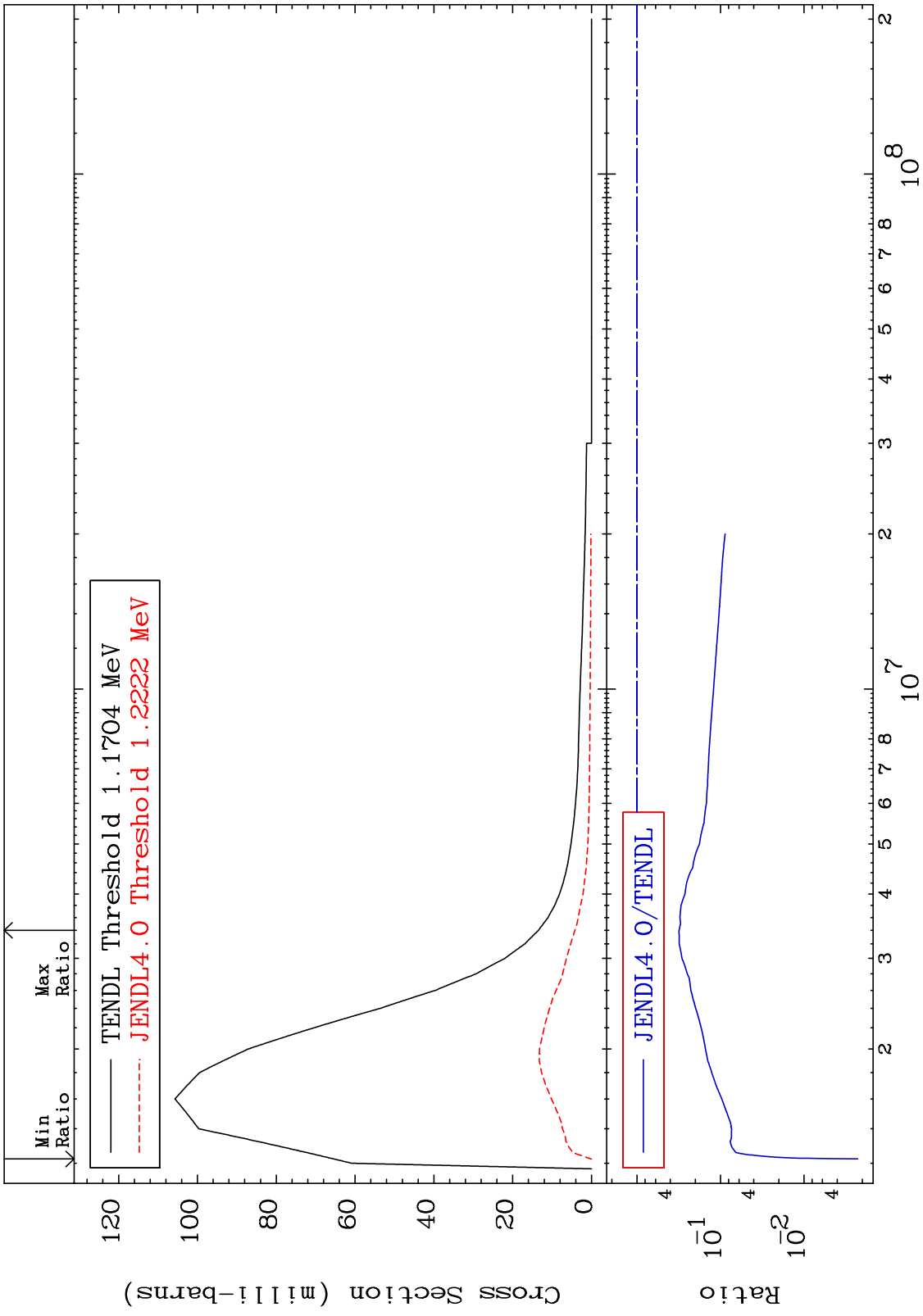
MAT 6034 MT= 64 (n,n') Level Cross Section 60-Nd-145
 -99.77 To -45.64%



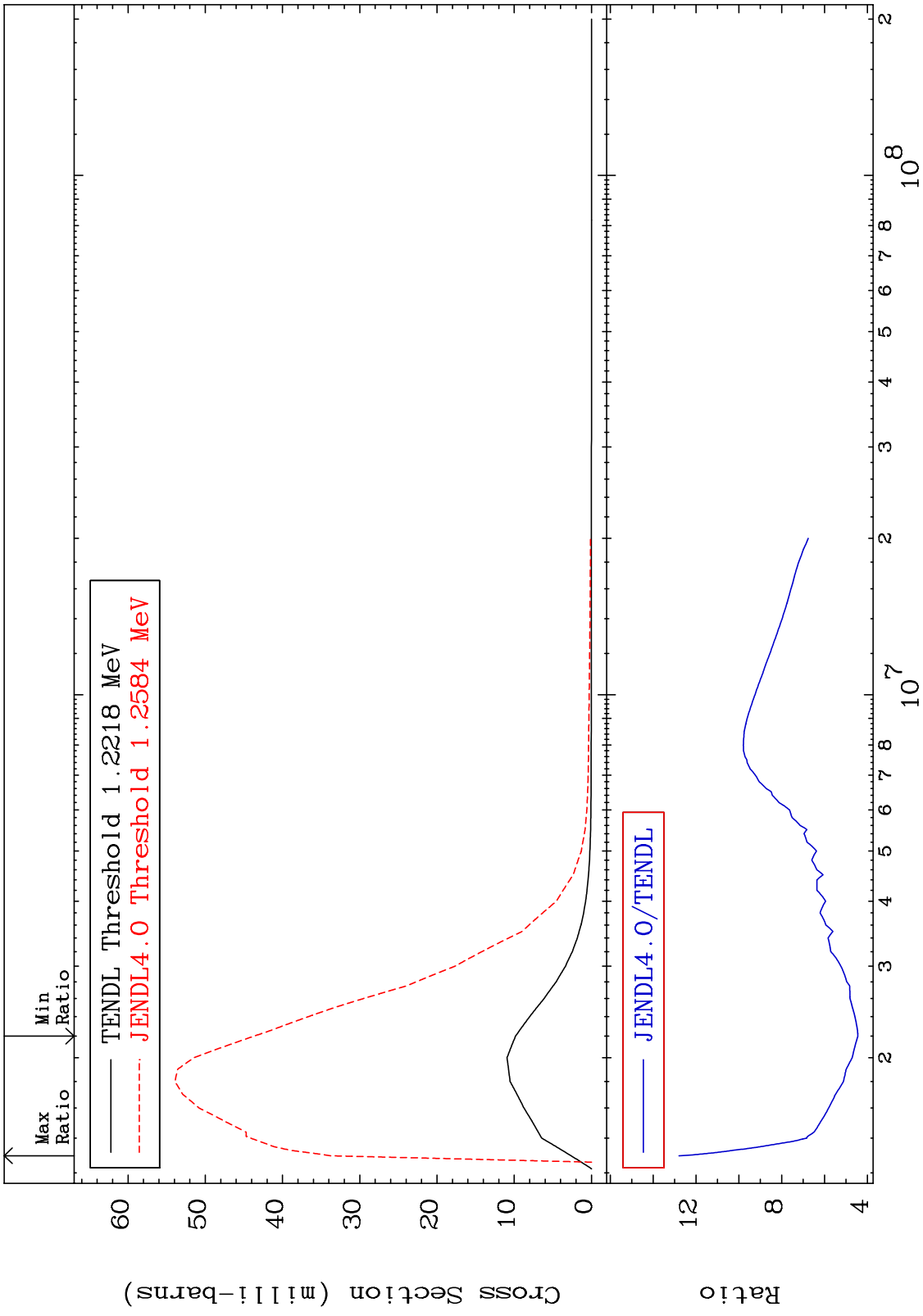
MAT 6034 MT= 65 (n,n') Level Cross Section 60-Nd-145 46.74 To 334.9 %



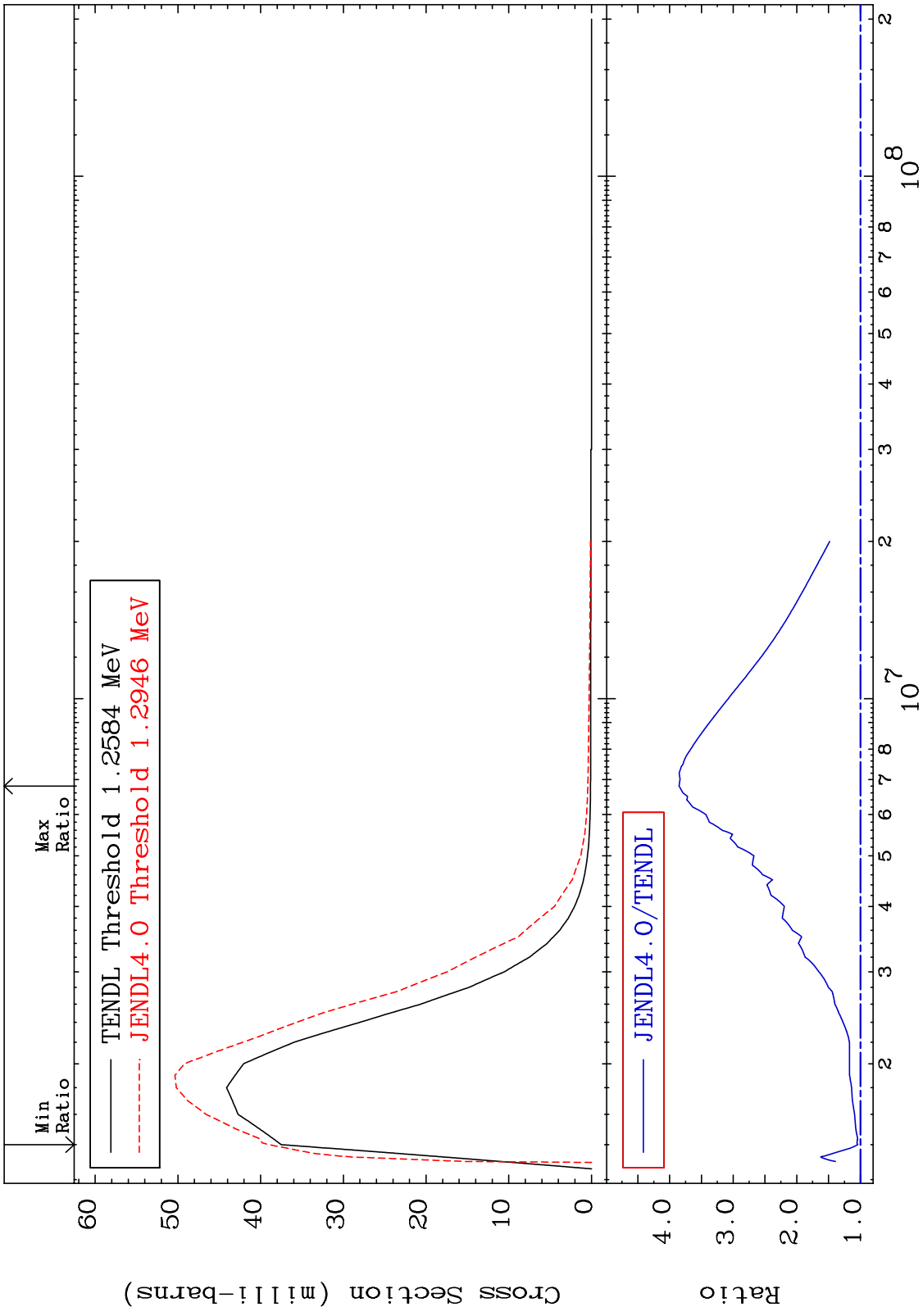
MAT 6034 MT= 66 (n,n') Level Cross Section 60-Nd-145
 -99.77 To -68.64%



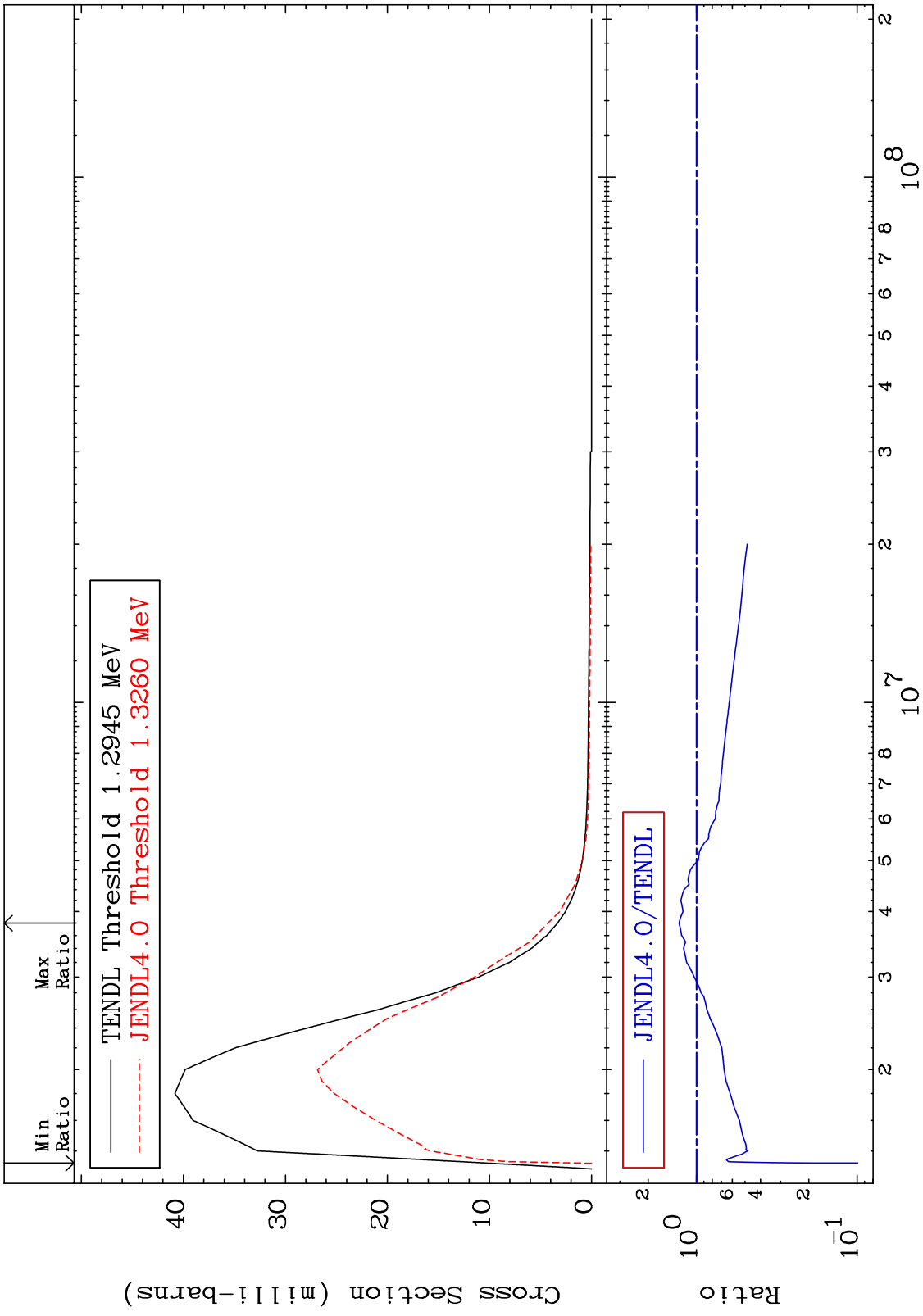
MAT 6034 MT= 67 (n,n') Level Cross Section 60-Nd-145 344.2 To 1179. %



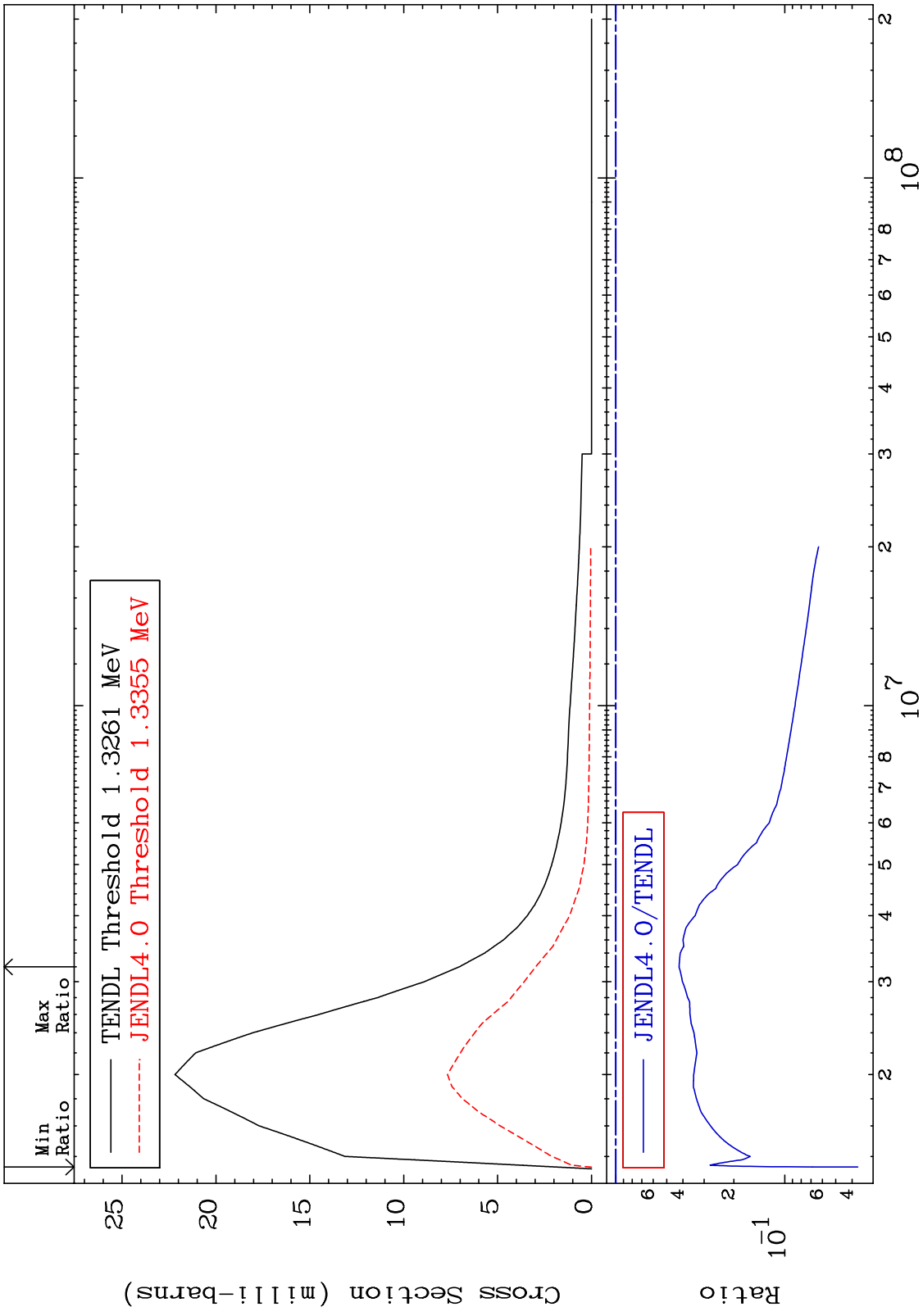
MAT 6034 MT= 68 (n,n') Level Cross Section 60-Nd-145 3.903 To 285.2 %



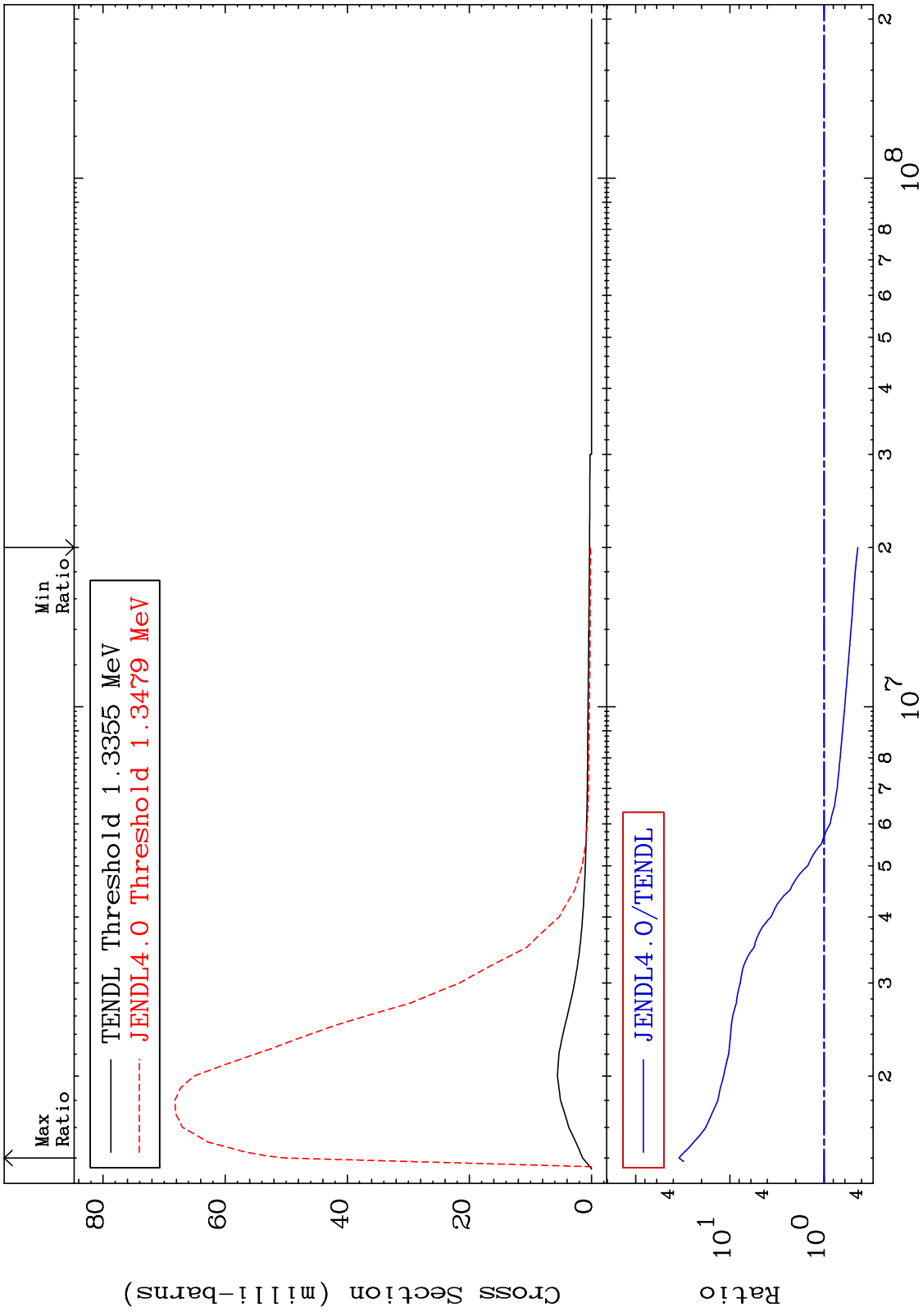
MAT 6034 MT= 69 (n,n') Level Cross Section 60-Nd-145
 -90.09 To 28.56 %



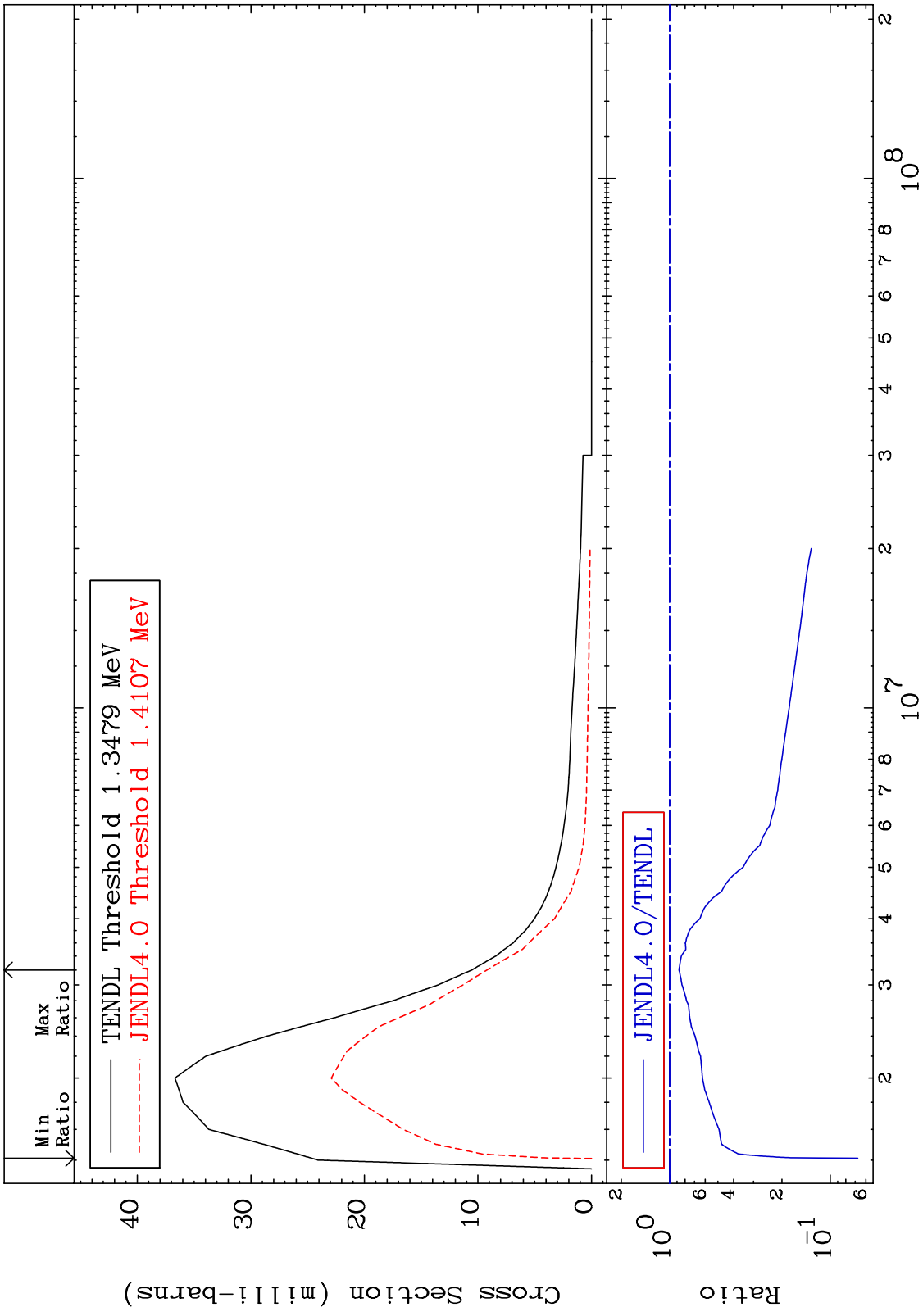
MAT 6034 MT= 70 (n,n') Level Cross Section 60-Nd-145
 -96.30 To -57.78%



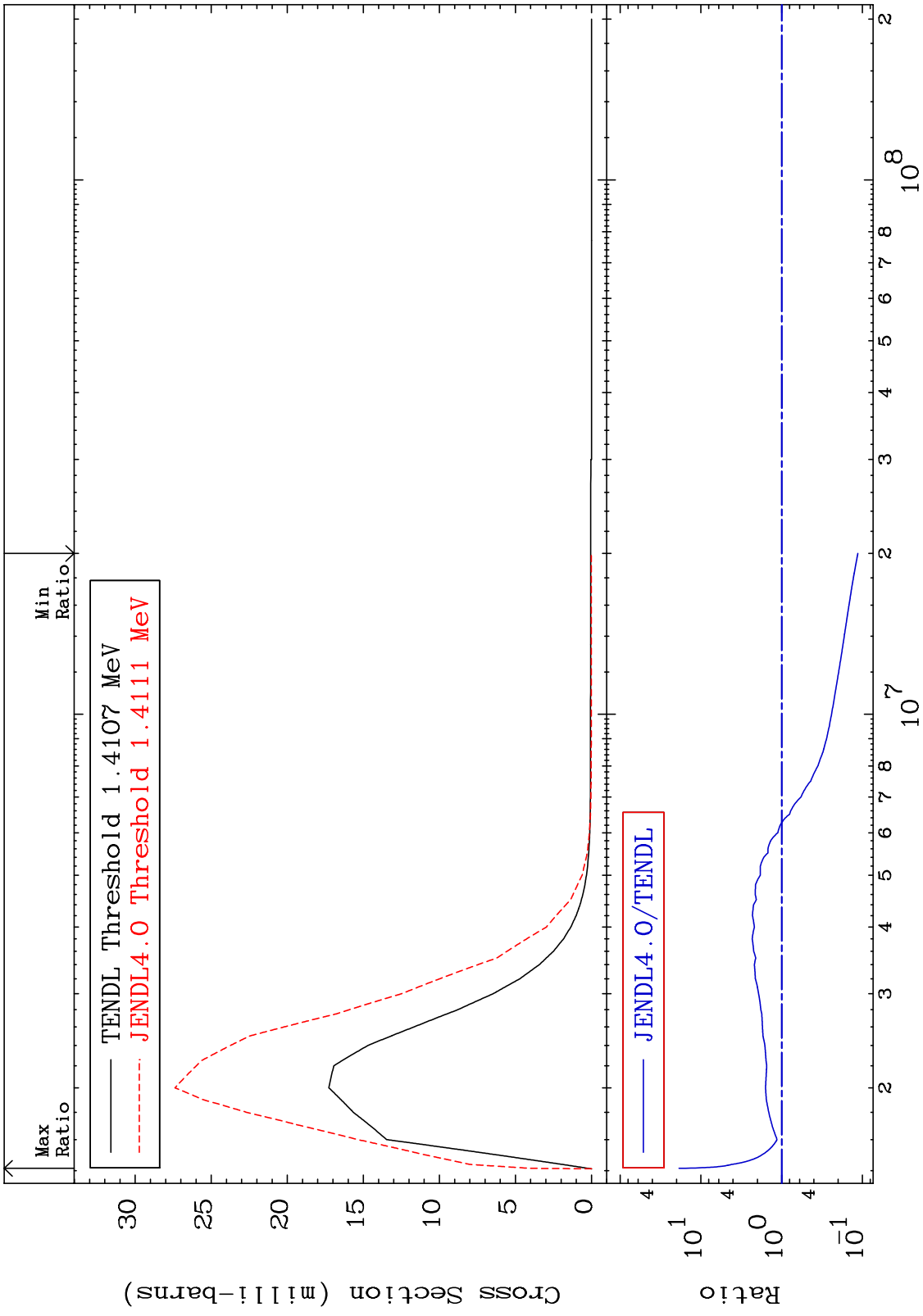
MAT 6034 MT= 71 (n,n') Level Cross Section 60-Nd-145
 -56.18 To 3367. %



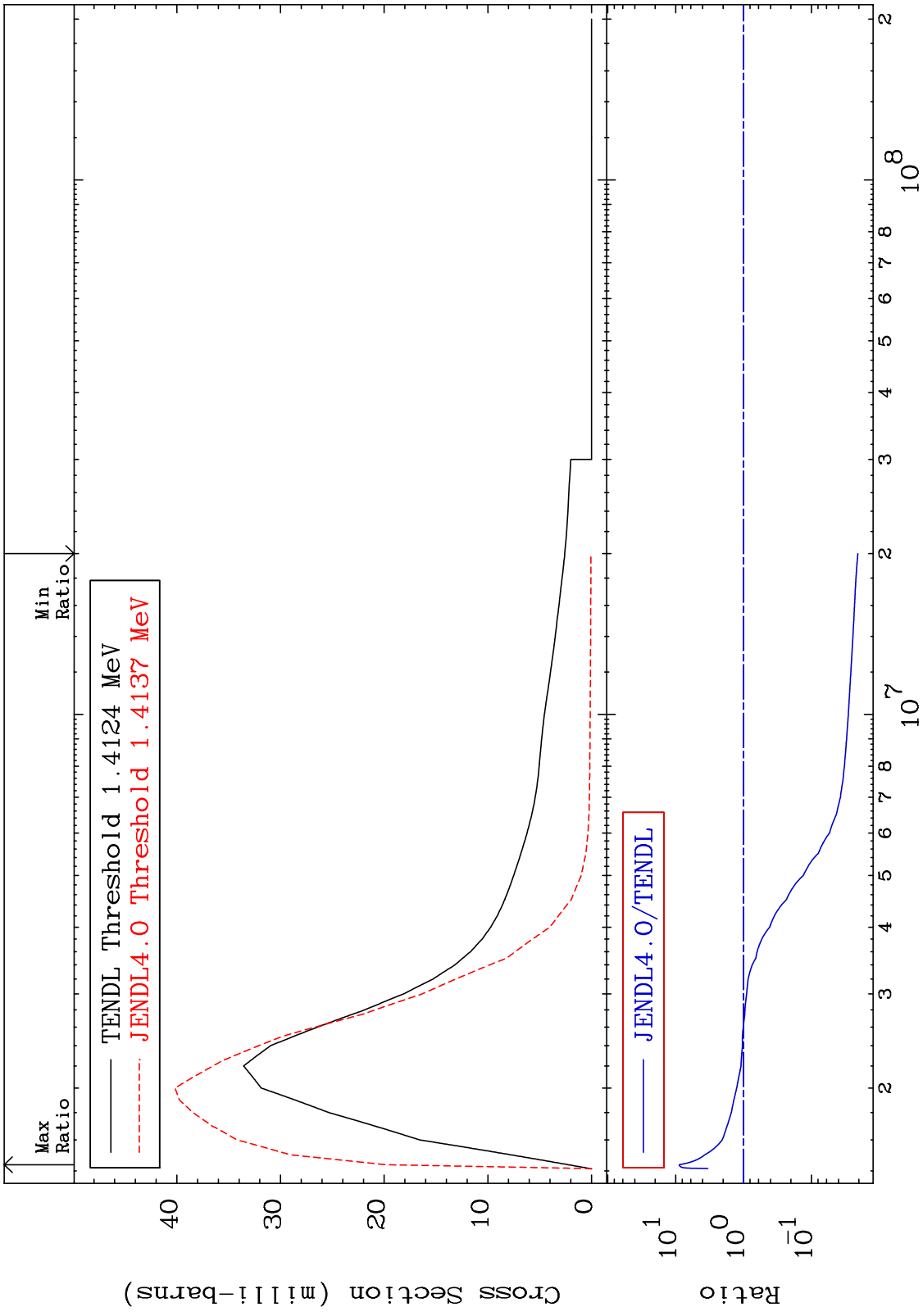
MAT 6034 MT= 72 (n,n') Level Cross Section 60-Nd-145 -93.26 To -12.64%



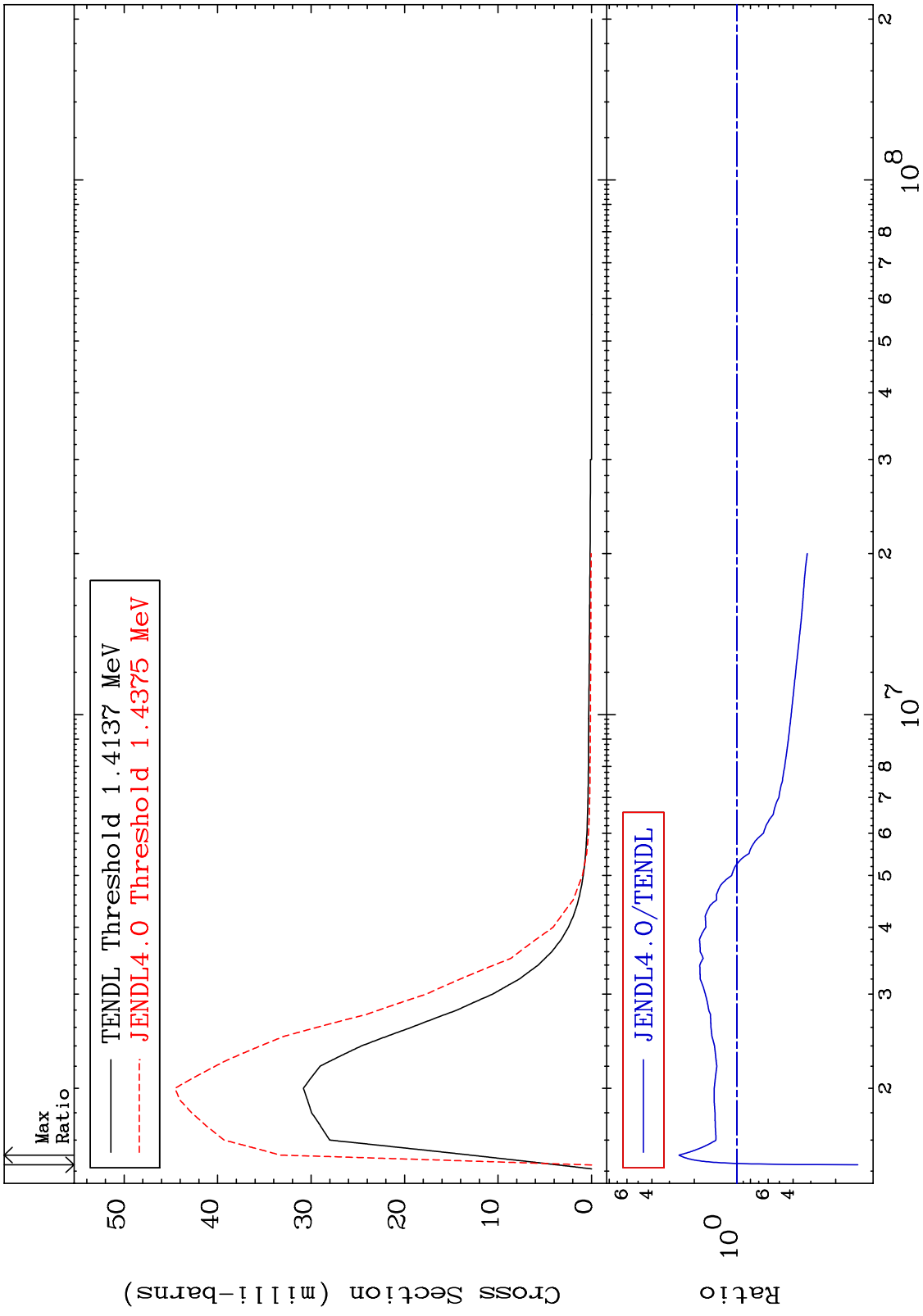
MAT 6034 MT= 73 (n,n') Level Cross Section 60-Nd-145
 -88.59 To 1767. %



MAT 6034 MT= 74 (n,n') Level Cross Section 60-Nd-145 -97.93 To 790.7 %



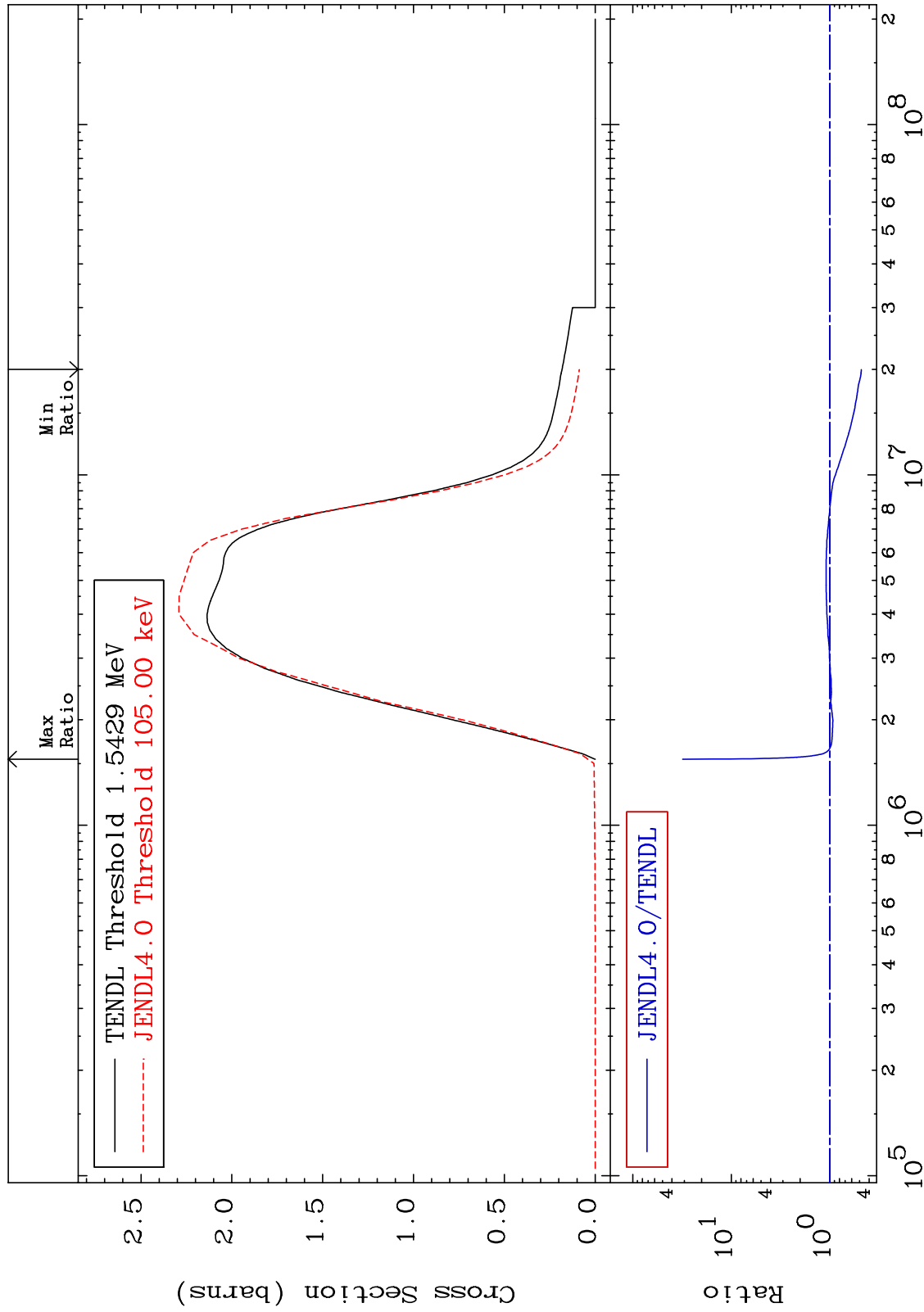
MAT 6034 MT= 75 (n,n') Level Cross Section 60-Nd-145
 -86.07 To 156.5 %



MAT 6034

(n, n') Continuum
Cross Section

60-Nd-145
-52.09 To 3017. %



37

60-Nd-145

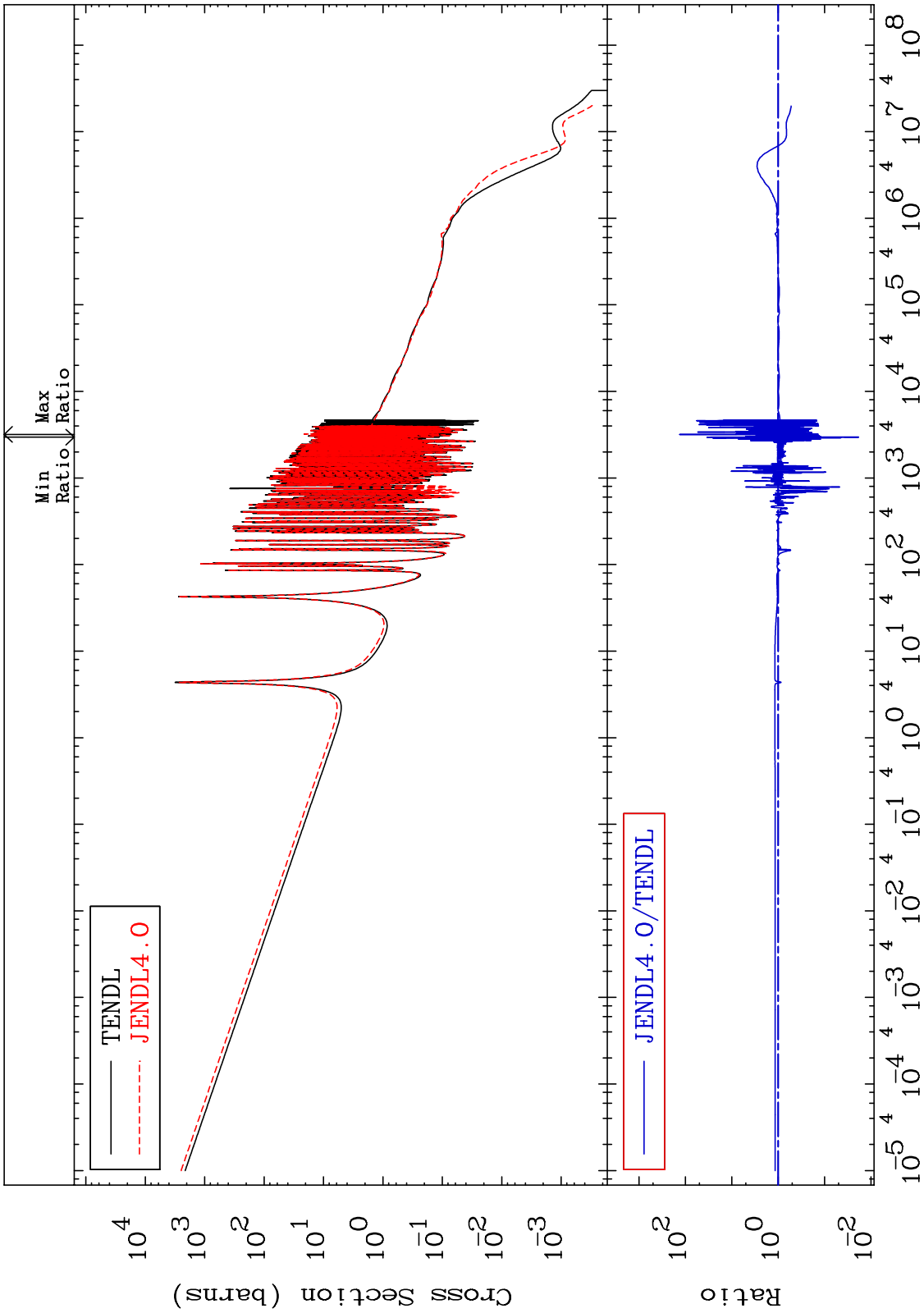
MAT 6034

(n, γ)

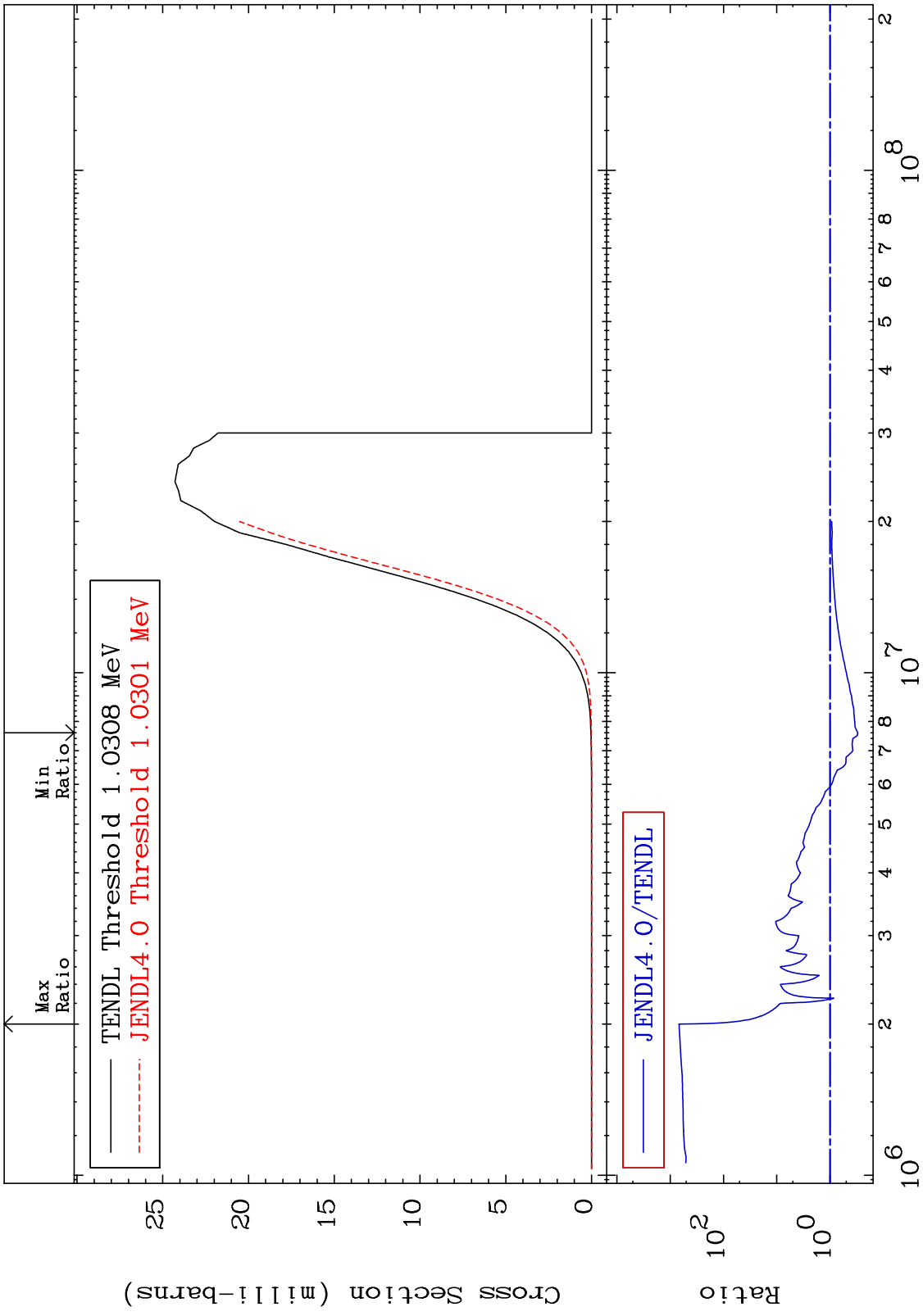
60-Nd-145

Cross Section

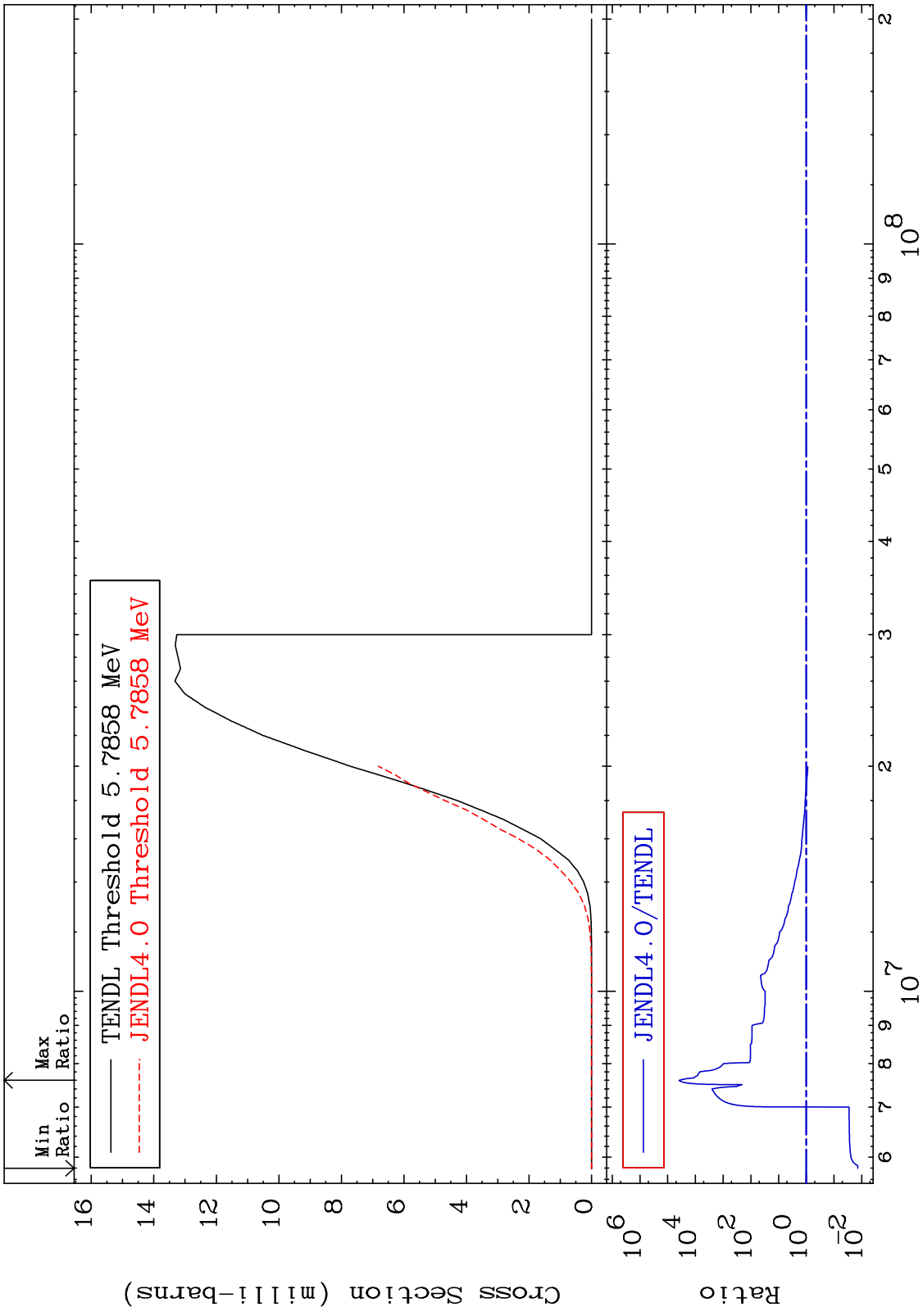
-98.16 To 9999. %



MAT 6034 (n,p) Cross Section 60-Nd-145 -69.88 To 9999. %

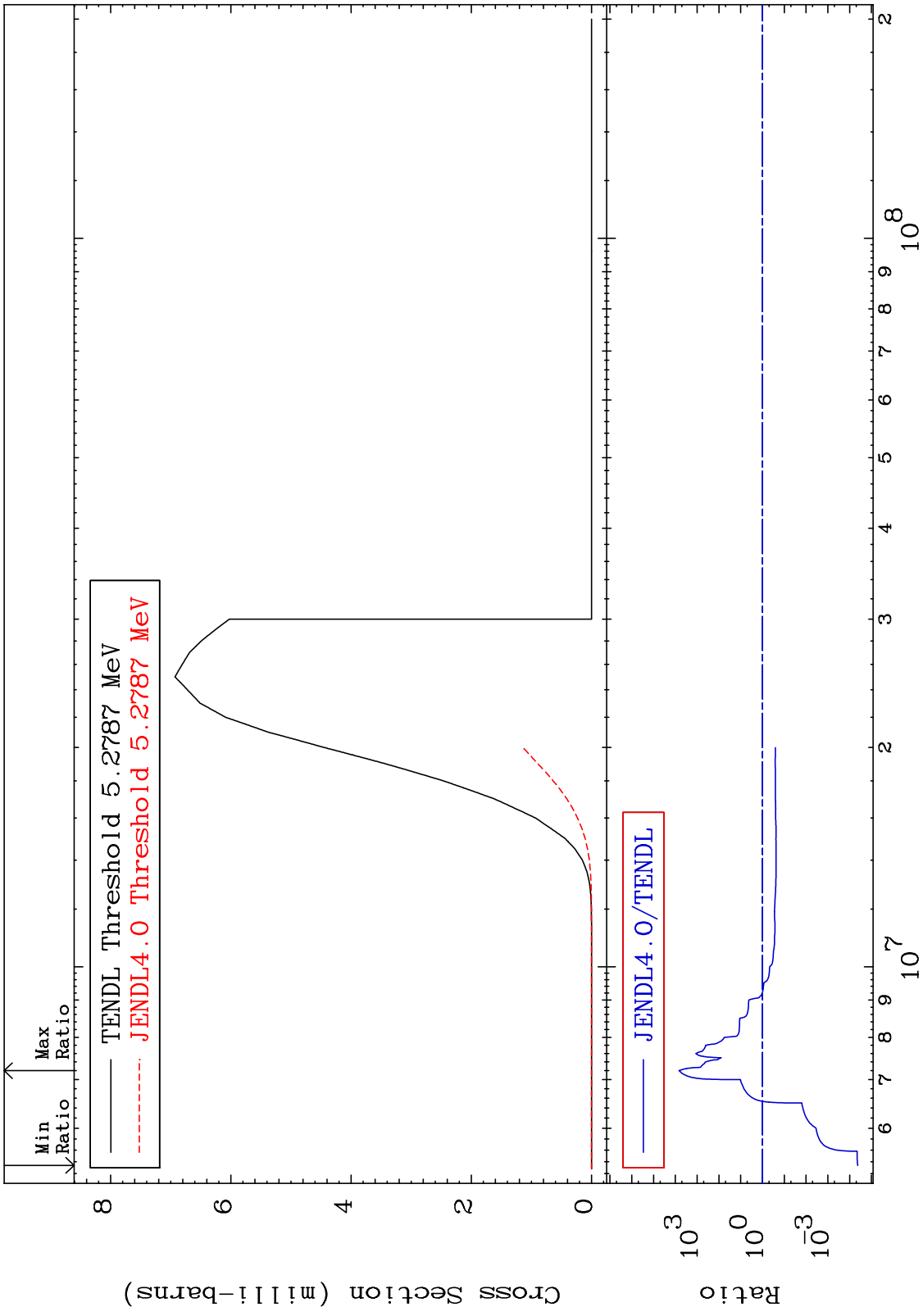


MAT 6034 (n,d) Cross Section 60-Nd-145 -98.62 To 9999. %

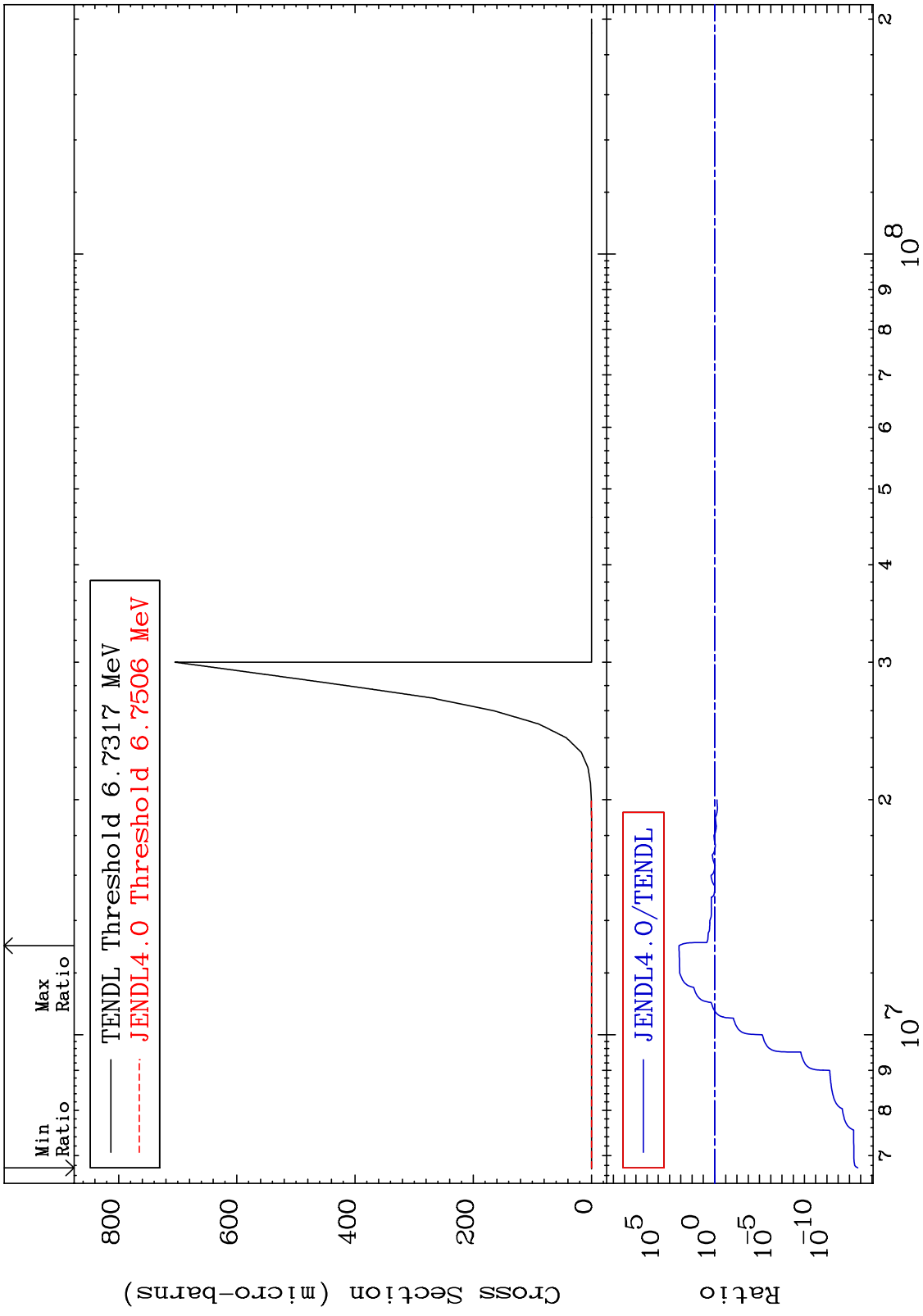


40 Incident Energy (eV) 60-Nd-145

MAT 6034 (n,t) Cross Section 60-Nd-145 -100.0 To 9999. %



MAT 6034 (n, He-3) 60-Nd-145
 Cross Section -100.0 To 9999. %



42 60-Nd-145

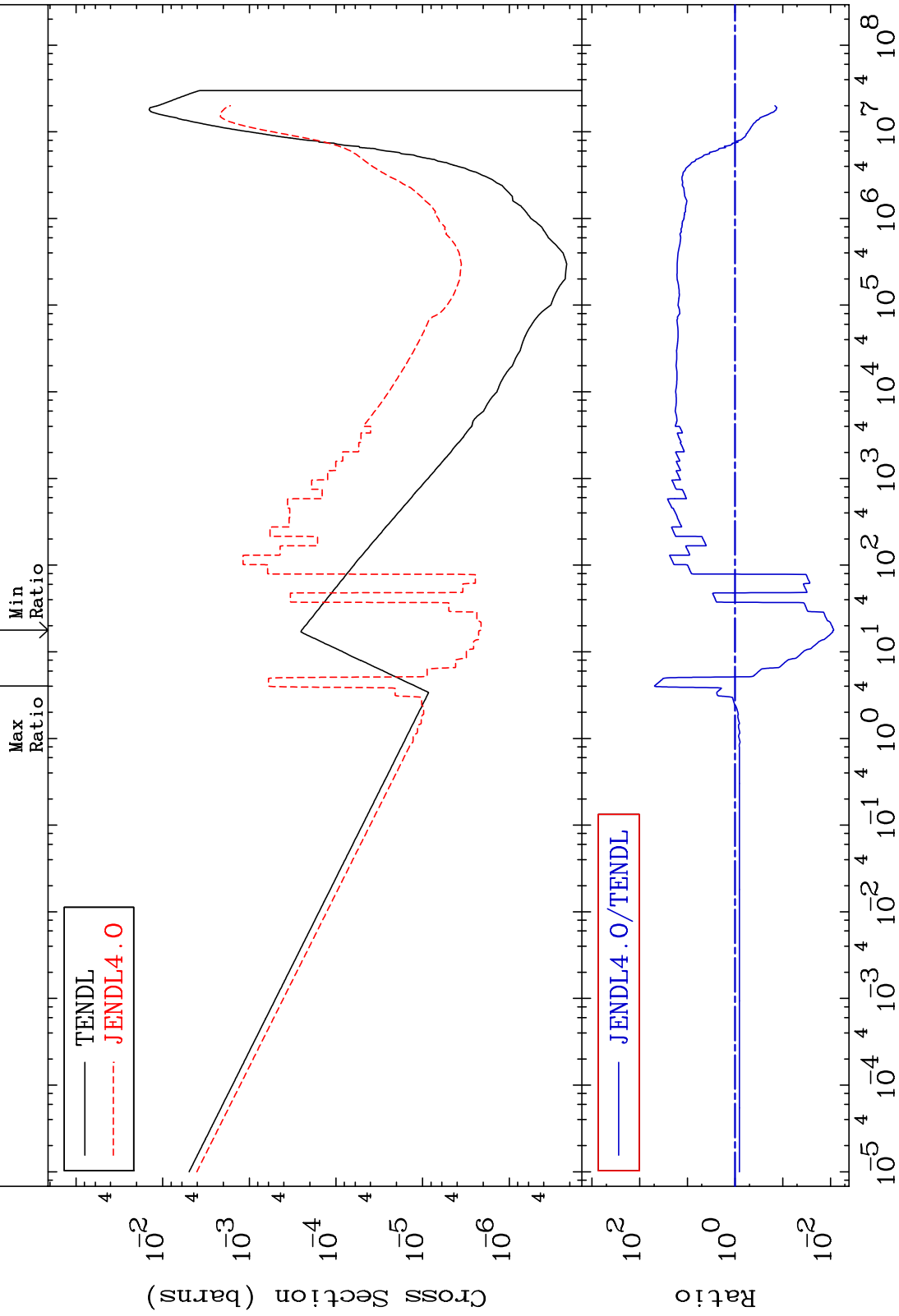
MAT 6034

(n, α)

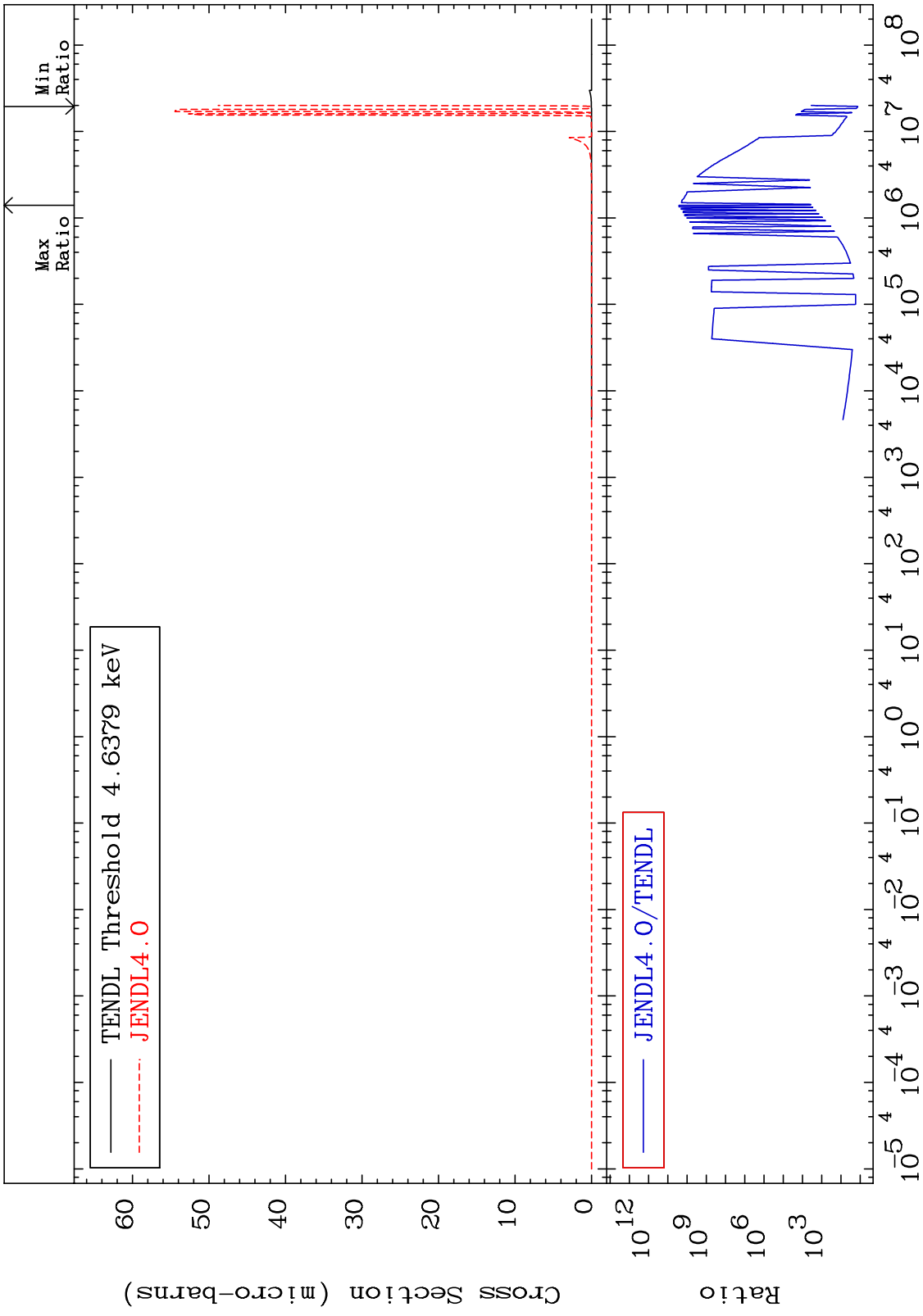
60-Nd-145

-99.14 To 4806. %

Cross Section



MAT 6034 (n,2α) Cross Section 60-Nd-145 1225. To 9999. %

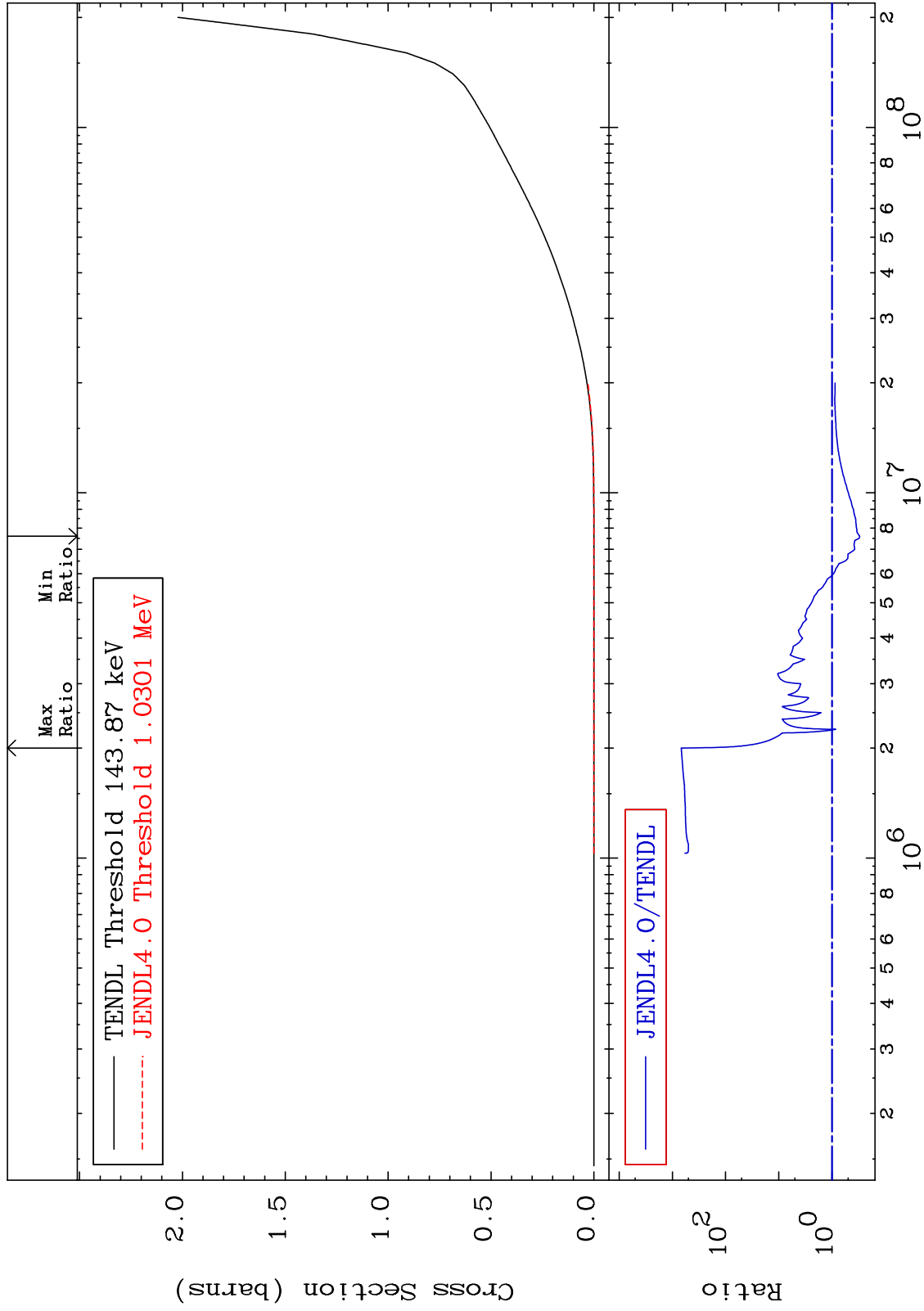


44 Incident Energy (eV) 60-Nd-145

MAT 6034

Hydrogen Production
Cross Section

60-Nd-145
-69.88 To 9999. %



45

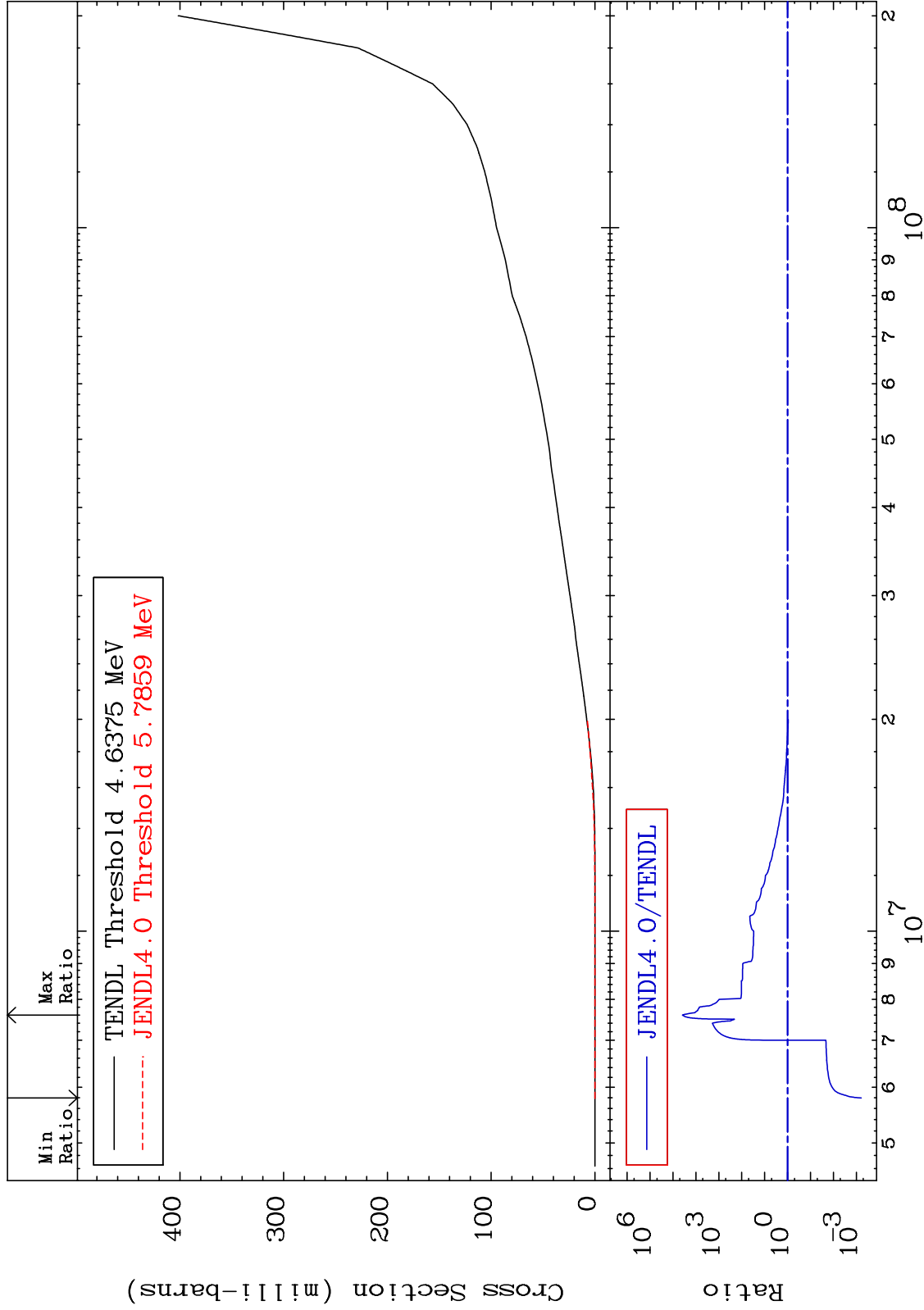
Incident Energy (eV)

60-Nd-145

MAT 6034

Deuterium Production
Cross Section

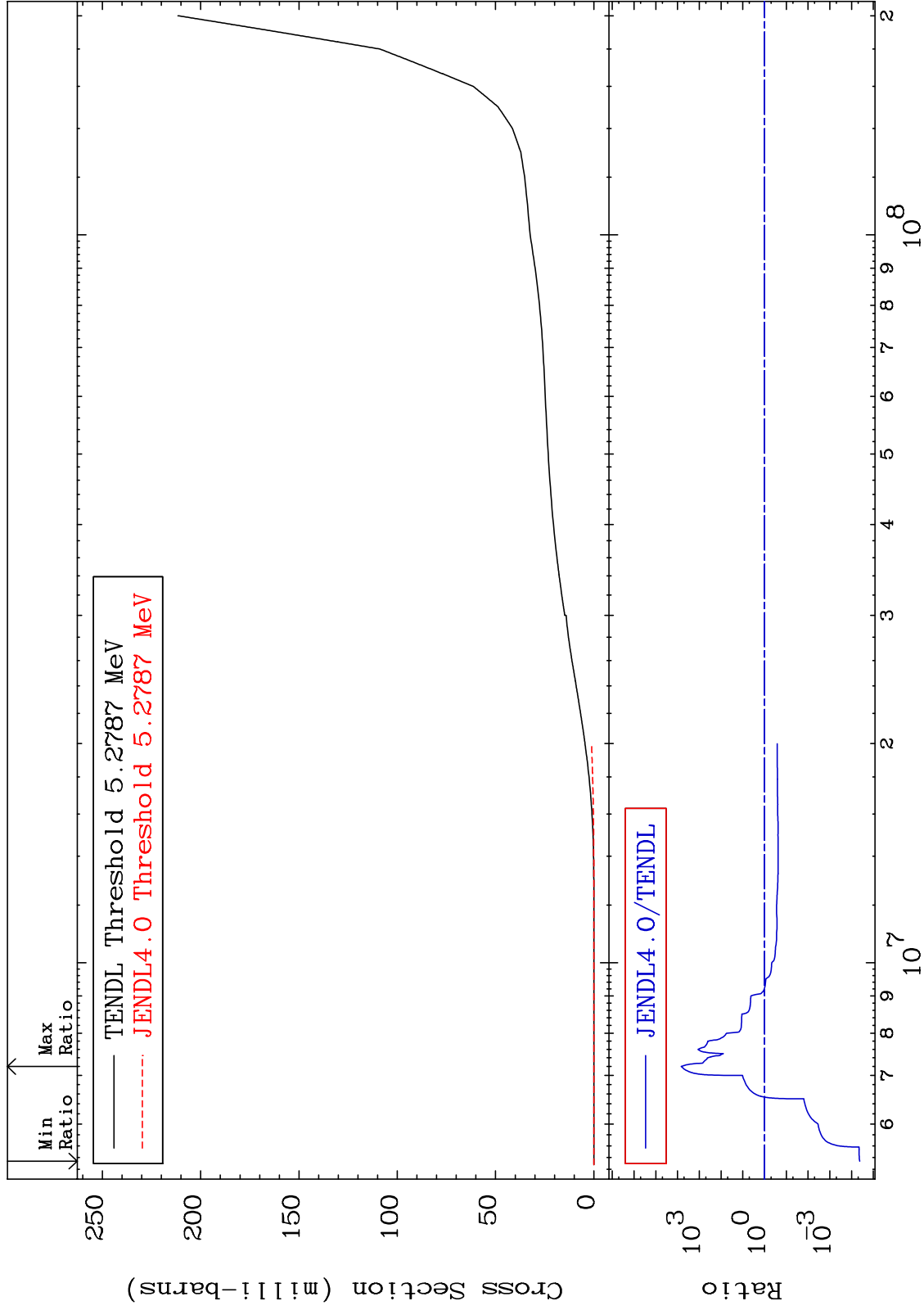
60-Nd-145
-99.94 To 9999. %



MAT 6034

Tritium Production
Cross Section

60-Nd-145
-100.0 To 9999. %



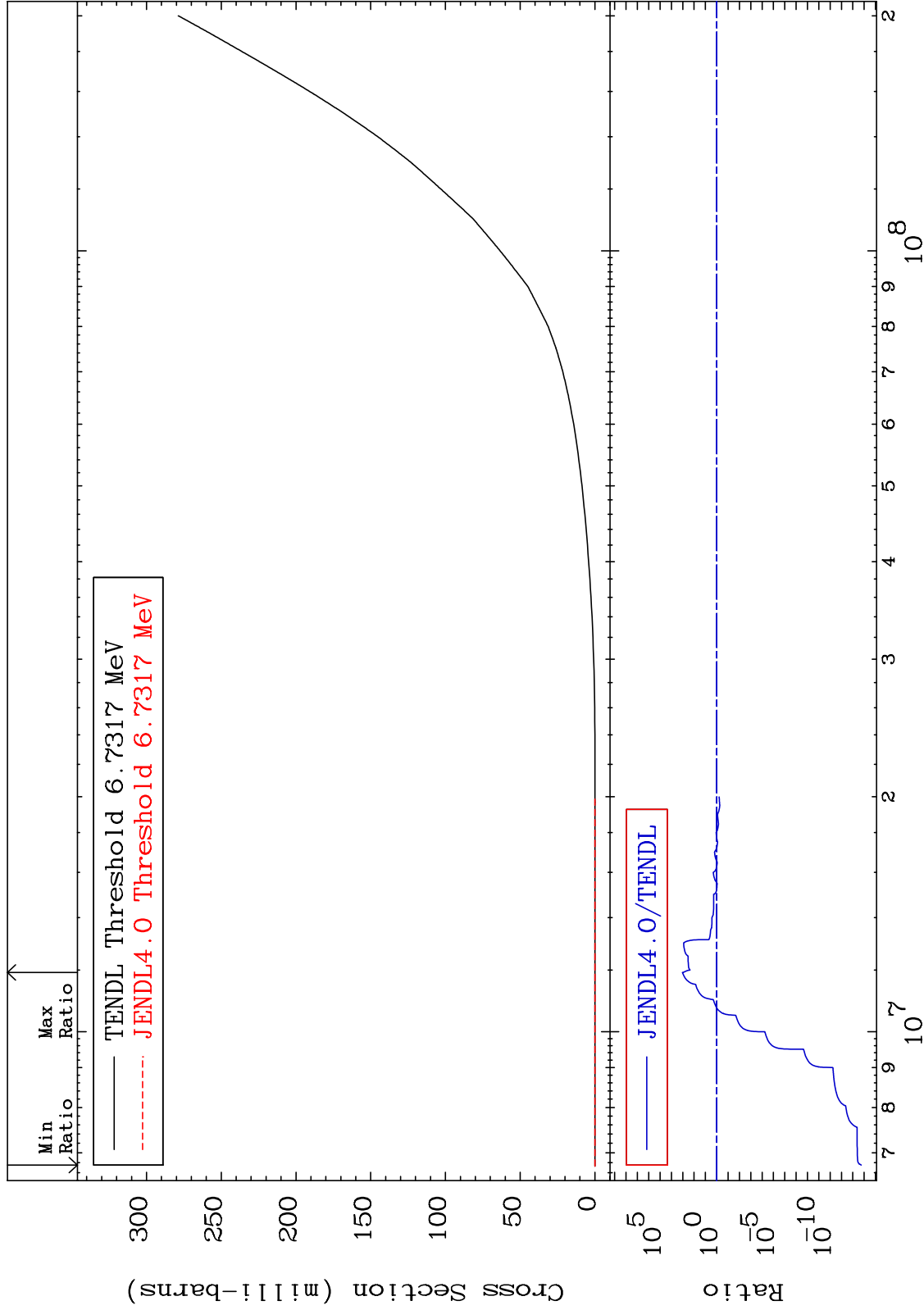
47

60-Nd-145

MAT 6034

He-3 Production
Cross Section

60-Nd-145
-100.0 To 9999. %



48

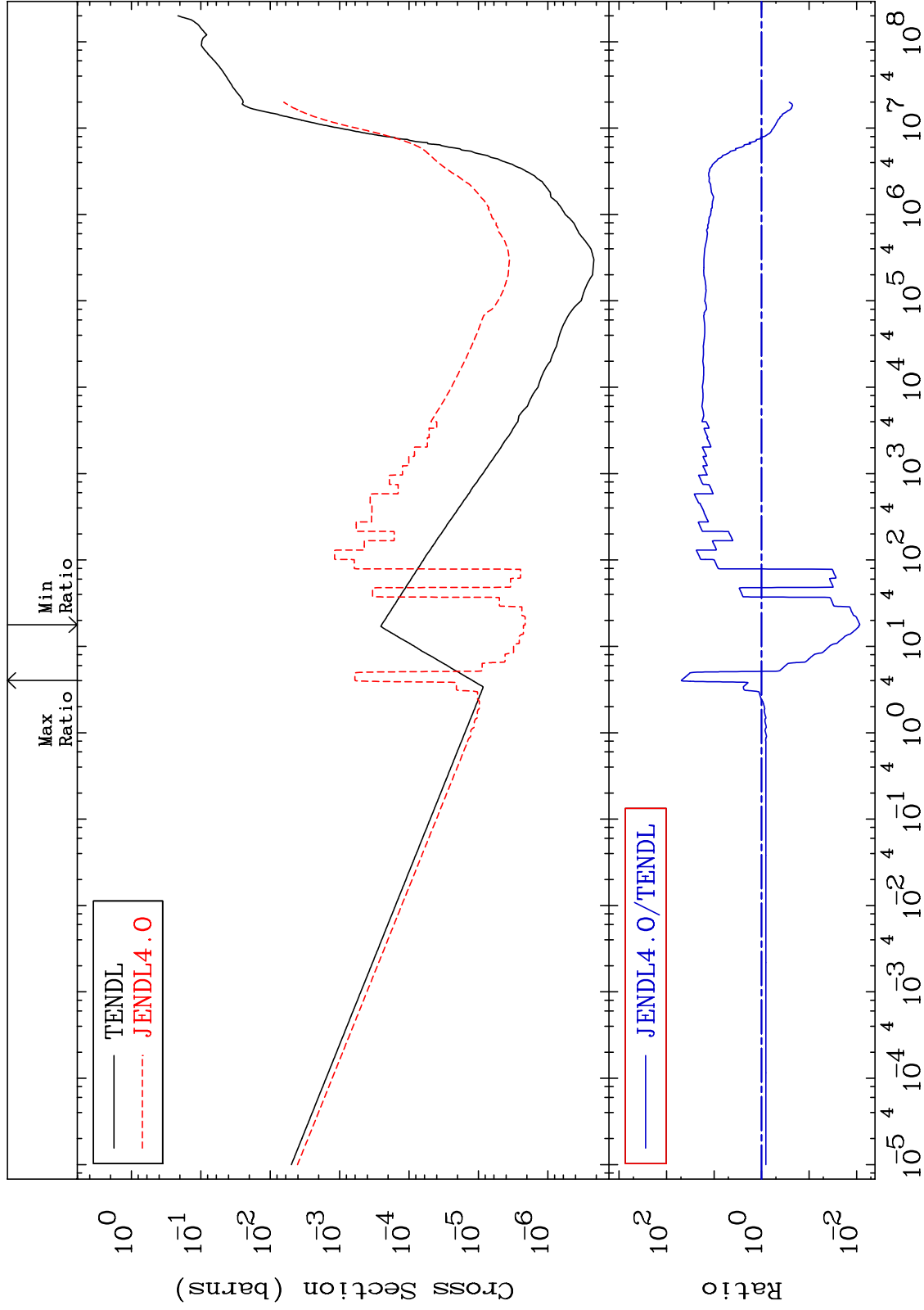
Incident Energy (eV)

60-Nd-145

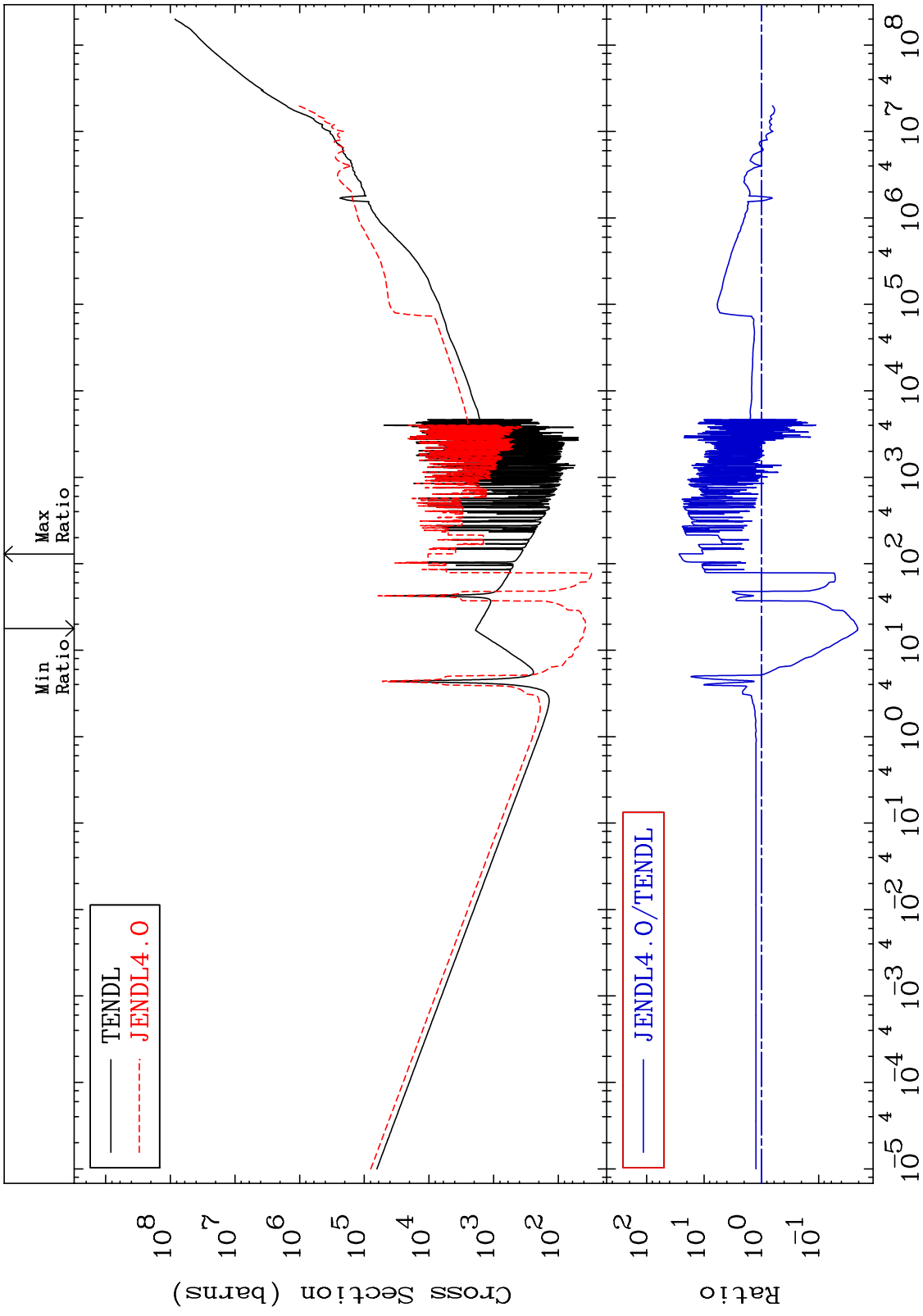
MAT 6034

He-4 Production
Cross Section

60-Nd-145
-99.14 To 4806. %



MAT 6034 Kerma total (eV-barns) 60-Nd-145
 Cross Section -97.93 To 2628. %

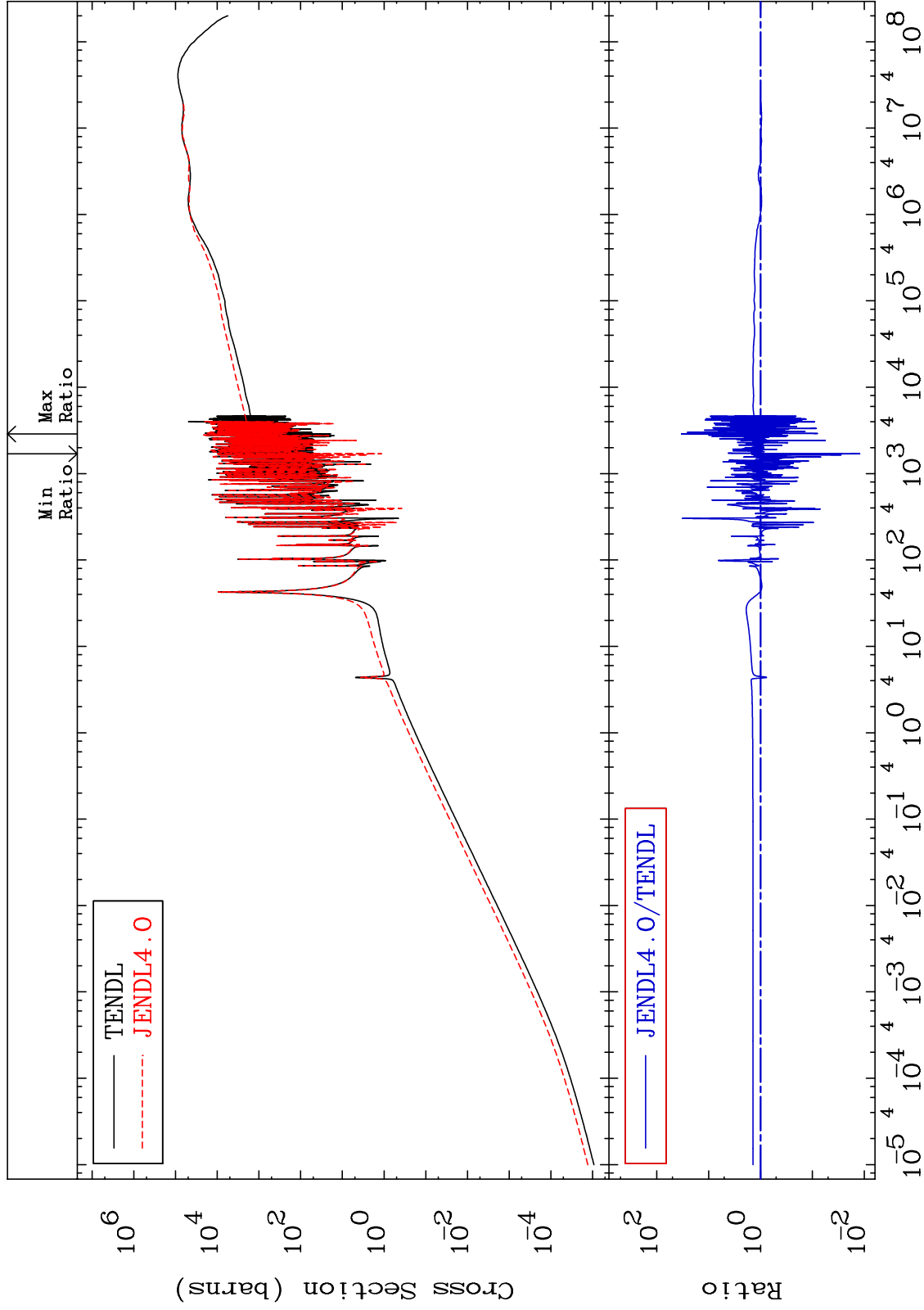


50 Incident Energy (eV) 60-Nd-145

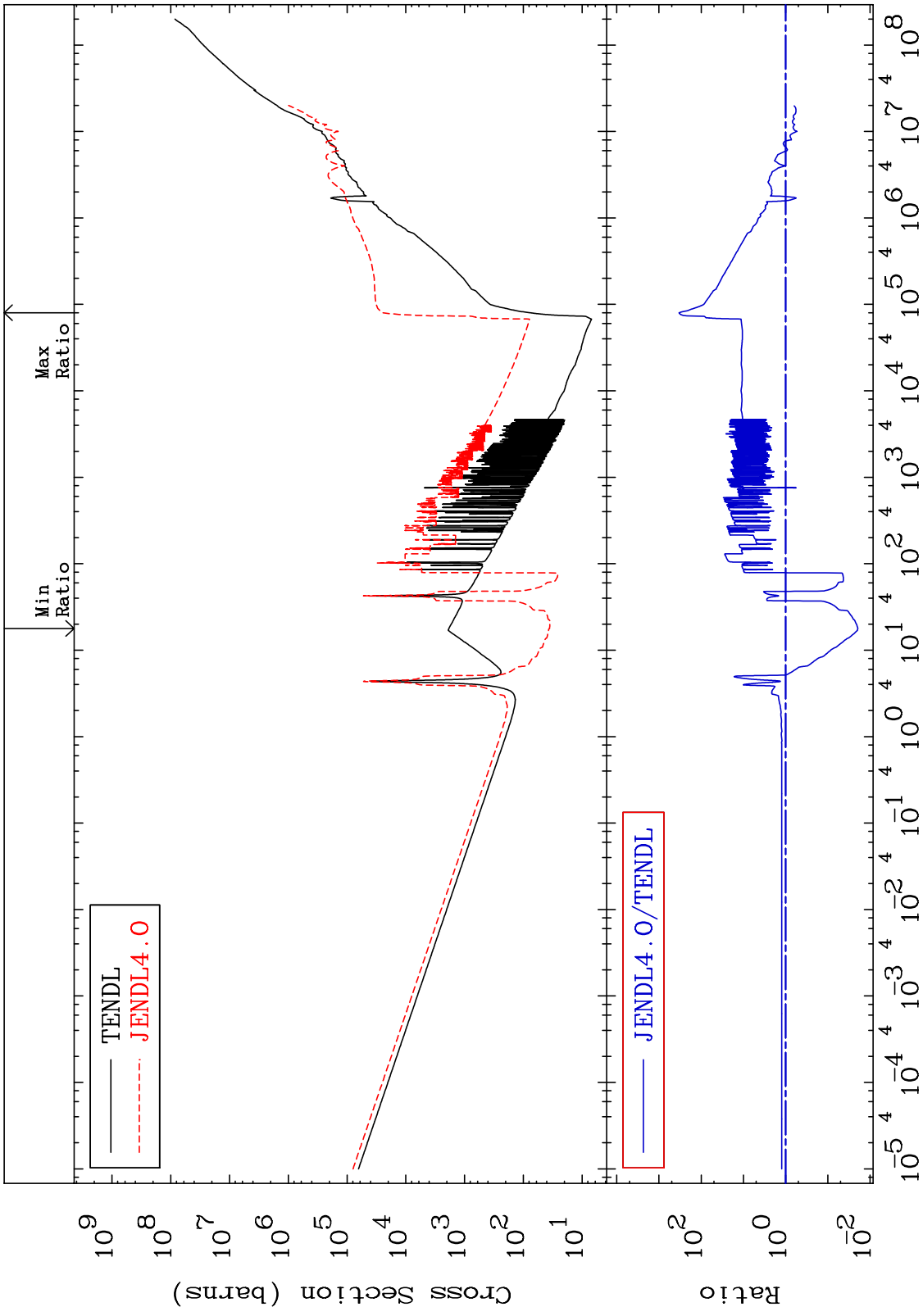
MAT 6034

Kerma elastic
Cross Section

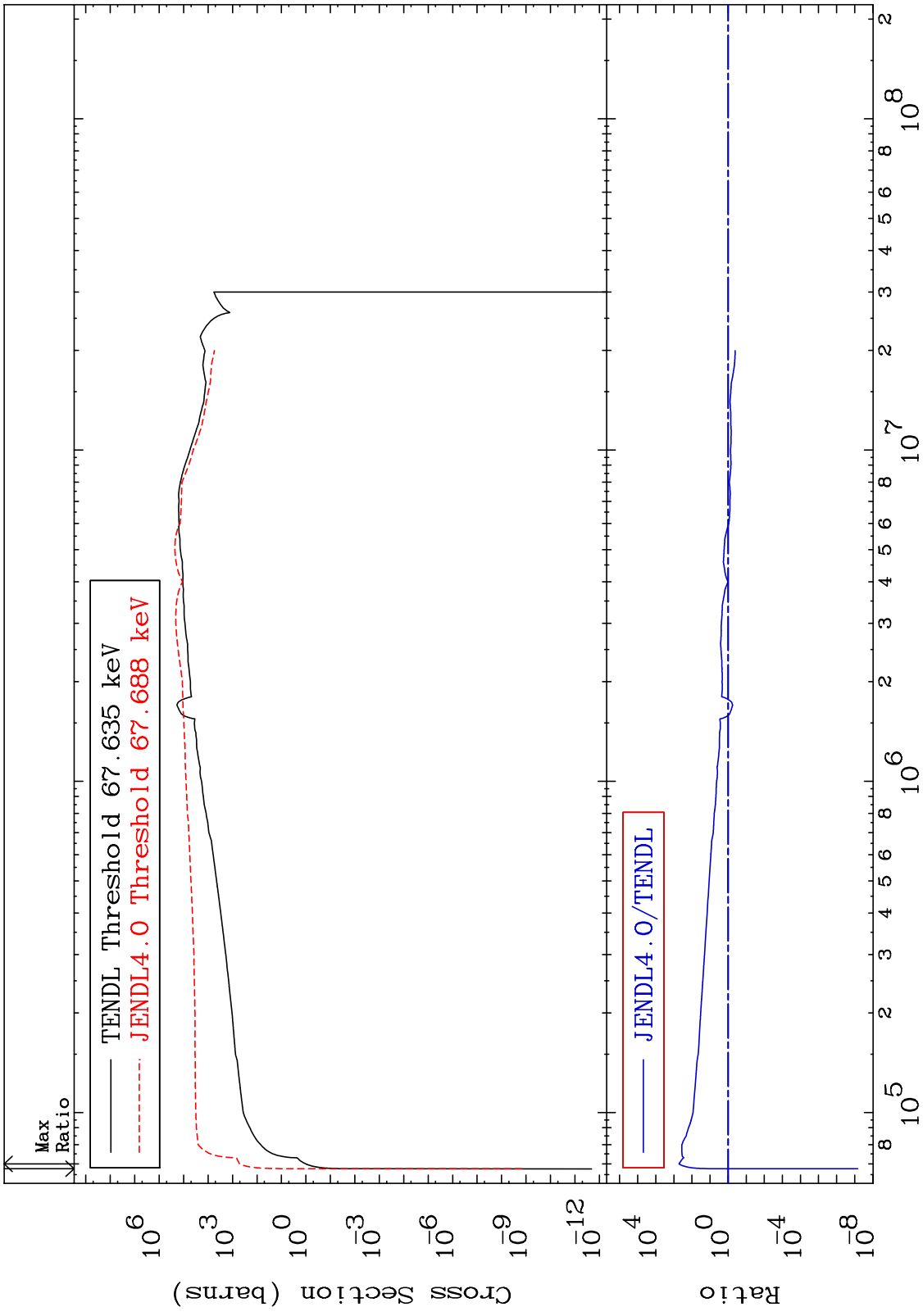
60-Nd-145
-98.78 To 3274. %



MAT 6034 Kerma non-elastic (all but mt2) 60-Nd-145
 Cross Section -98.06 To 9999. %



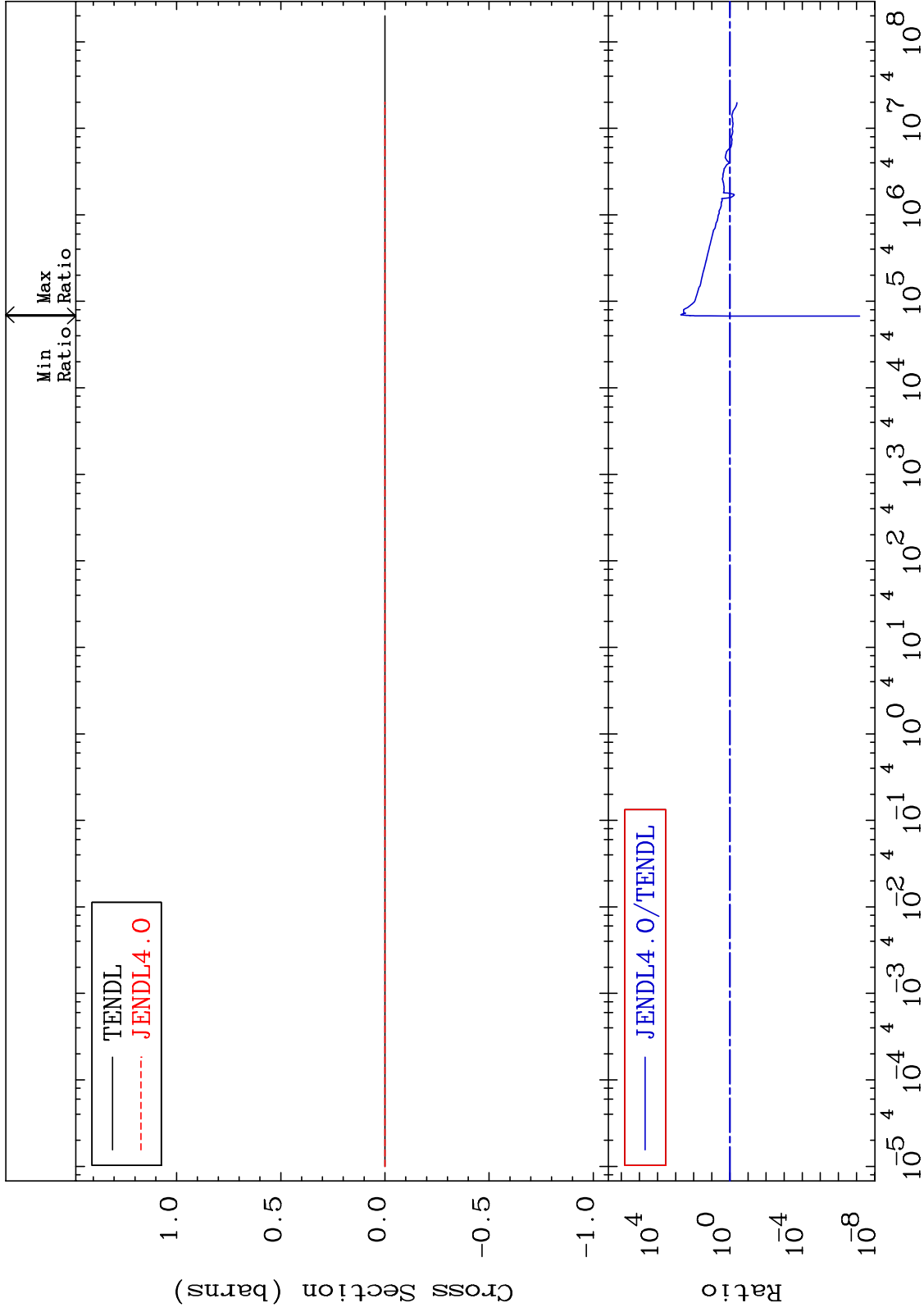
MAT 6034 Kerma inelastic (mt51-91) 60-Nd-145
Cross Section -100.0 To 9999. %



MAT 6034

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

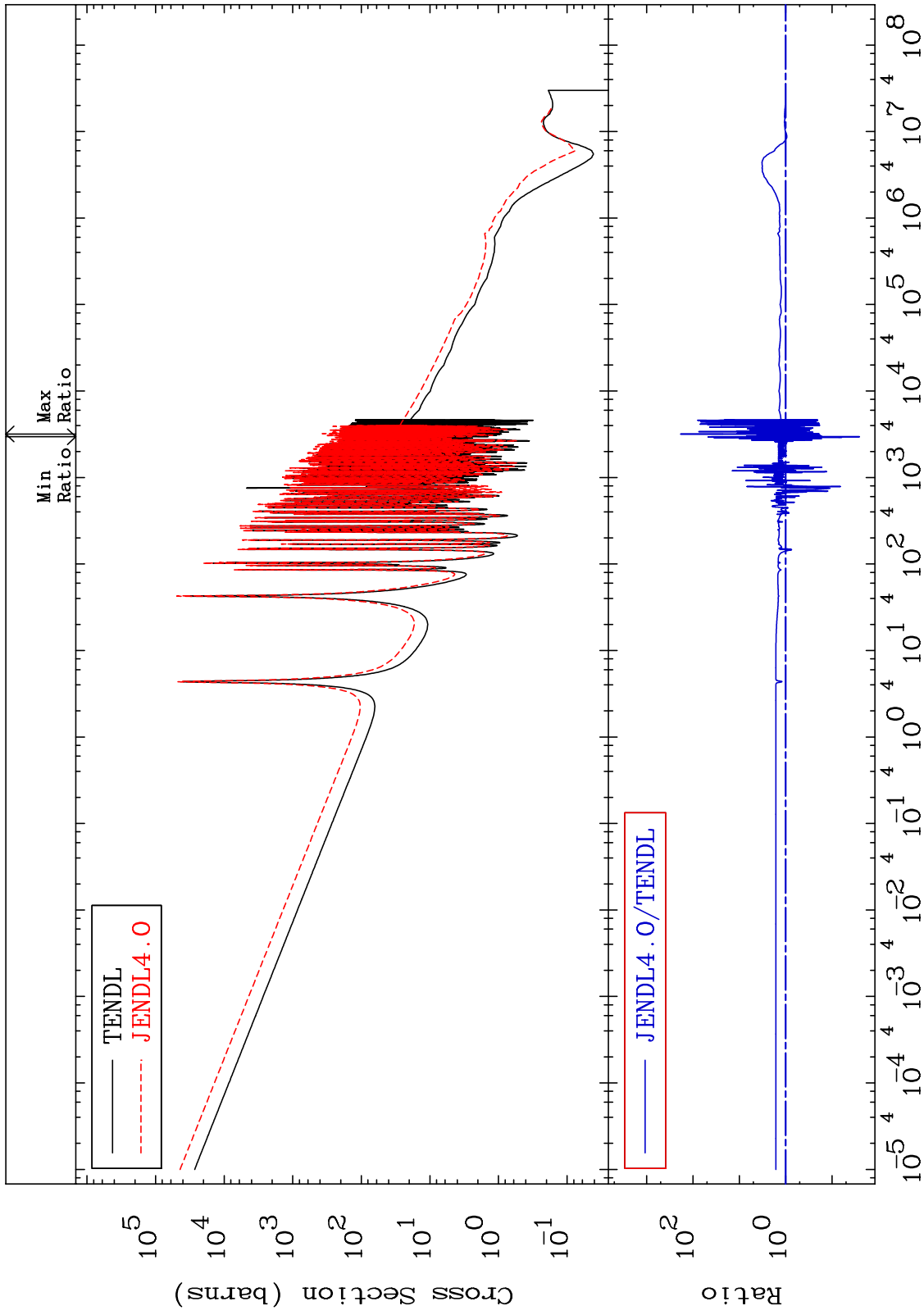
60-Nd-145
-100.0 To 9999. %



MAT 6034

Kerma capture (mt102)
Cross Section

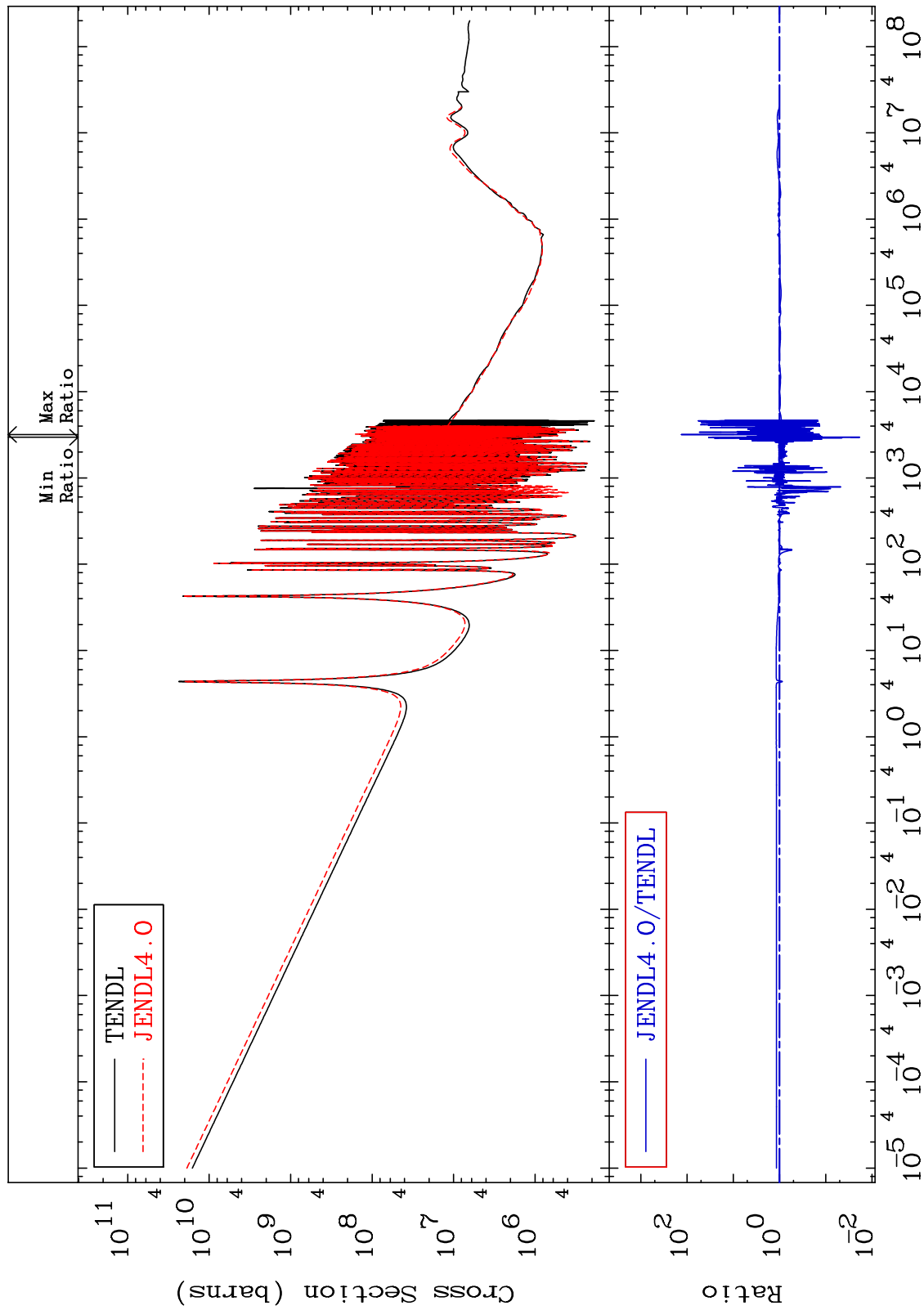
60-Nd-145
-97.45 To 9999. %



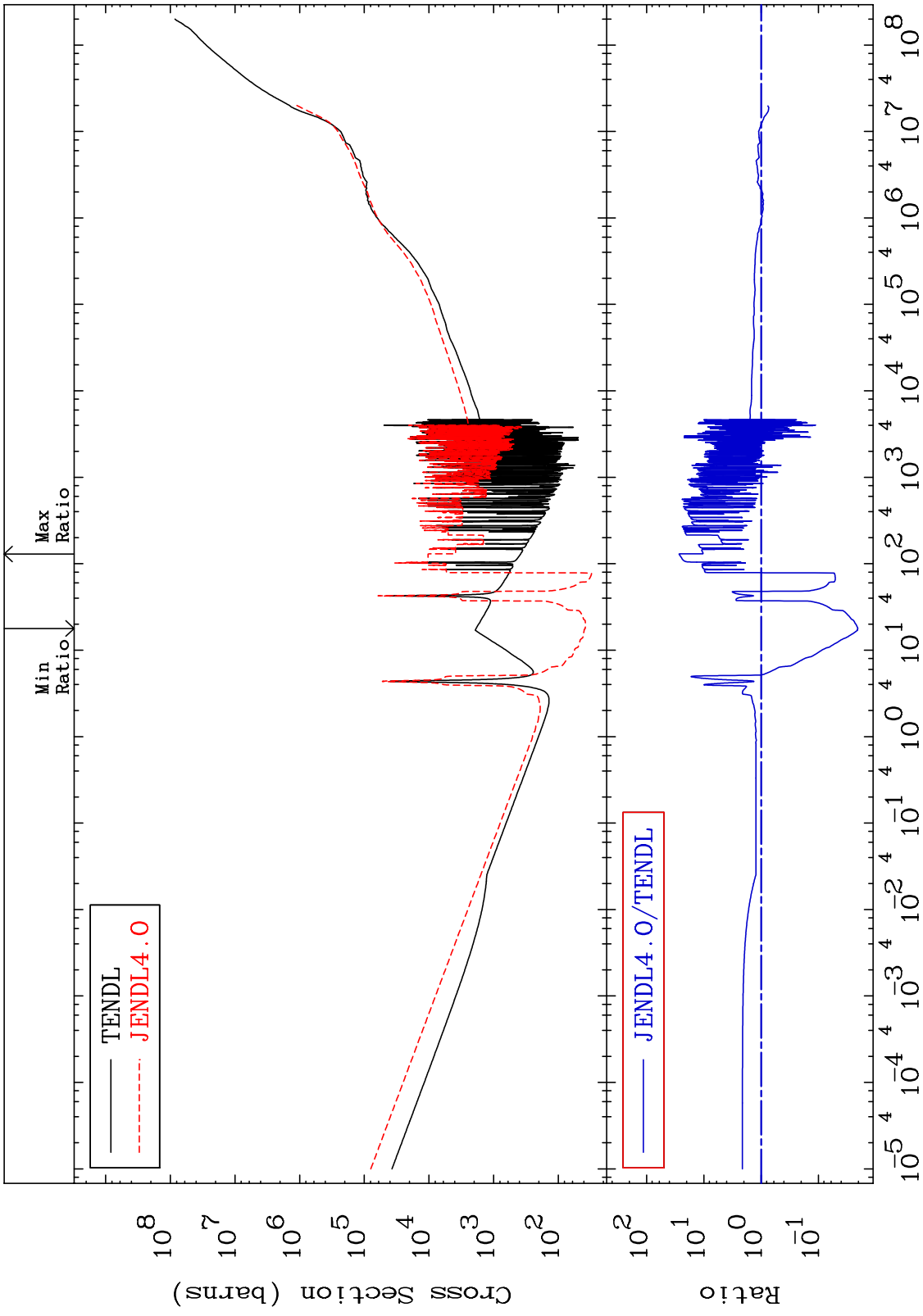
MAT 6034

Total photon (eV-barns)
Cross Section

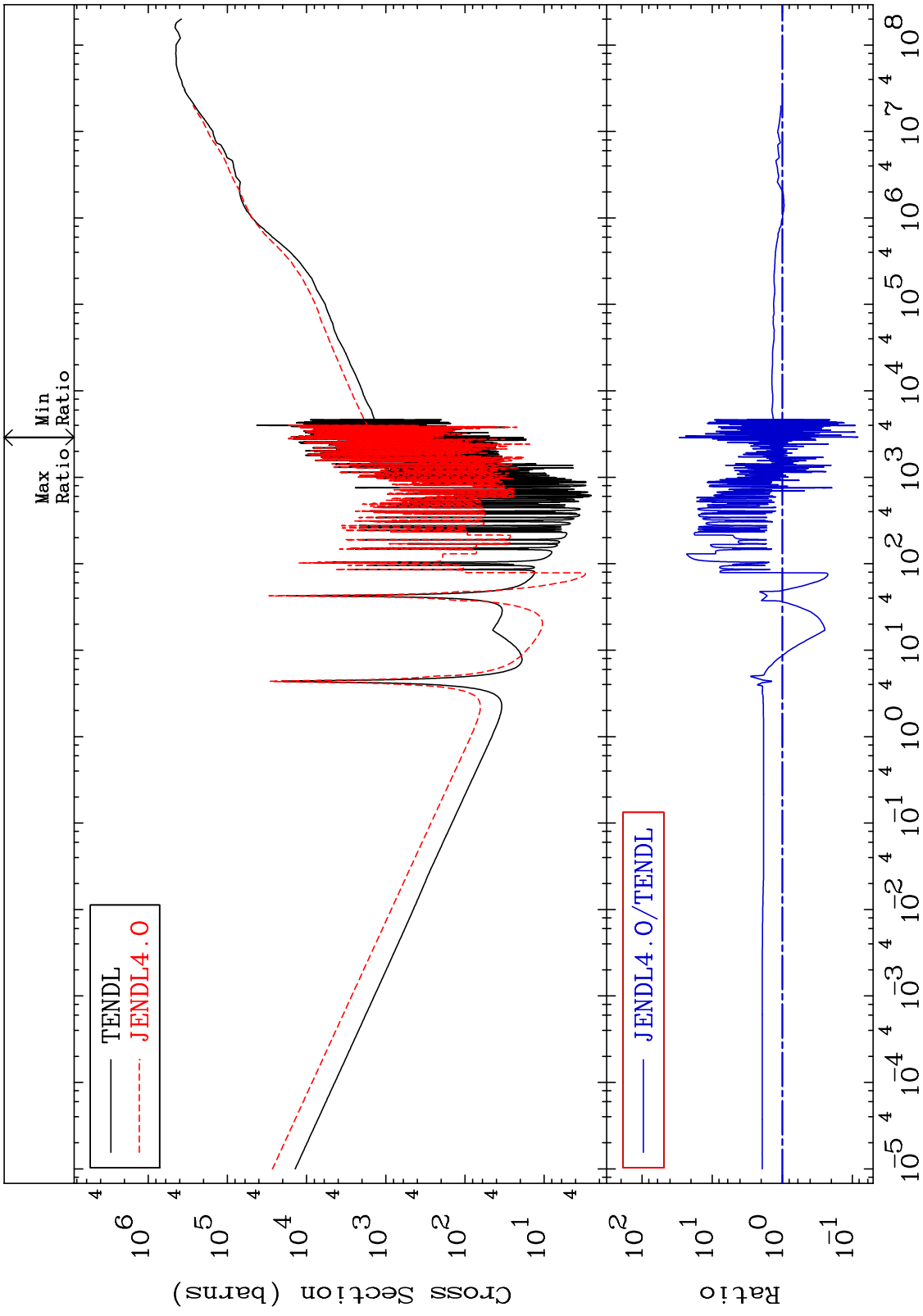
60-Nd-145
-98.16 To 9999. %



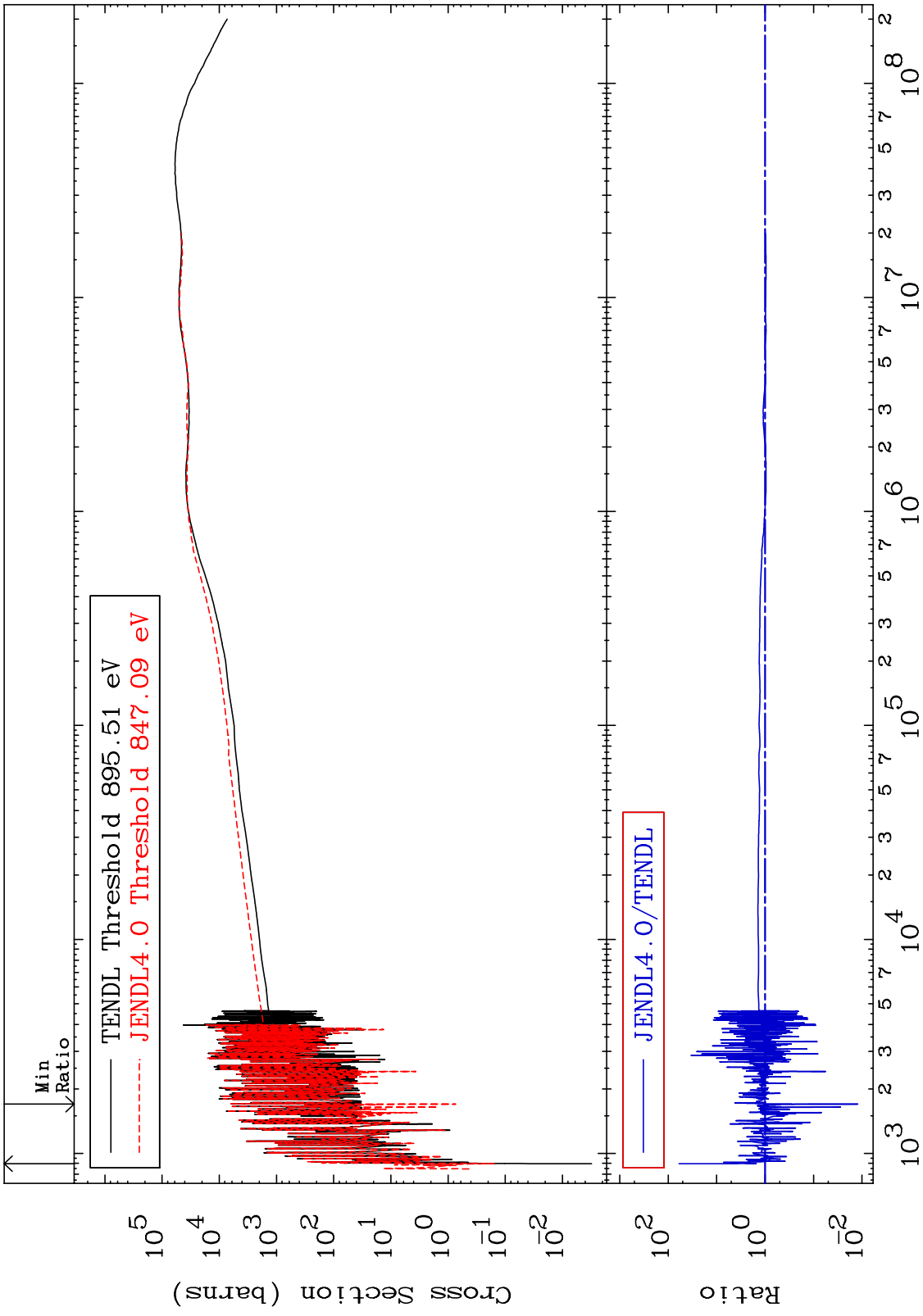
MAT 6034 Total kinematic kerma (high limit) 60-Nd-145
 Cross Section -97.95 To 2609. %



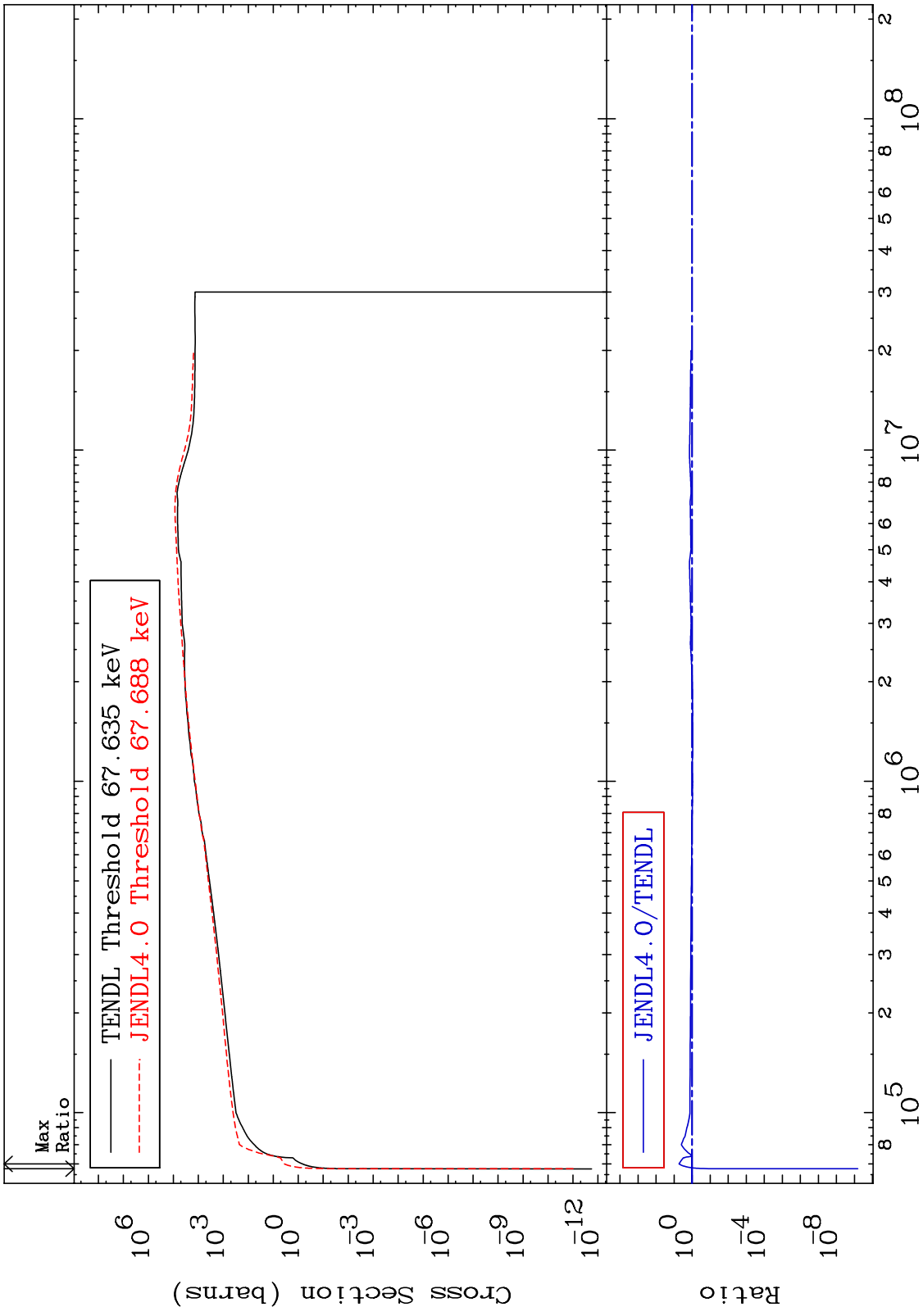
MAT 6034 60-Nd-145
 Dpa total (eV-barns) -91.64 To 2869. %
 Cross Section



MAT 6034 Dpa elastic (mt2) 60-Nd-145
Cross Section -98.78 To 5876. %

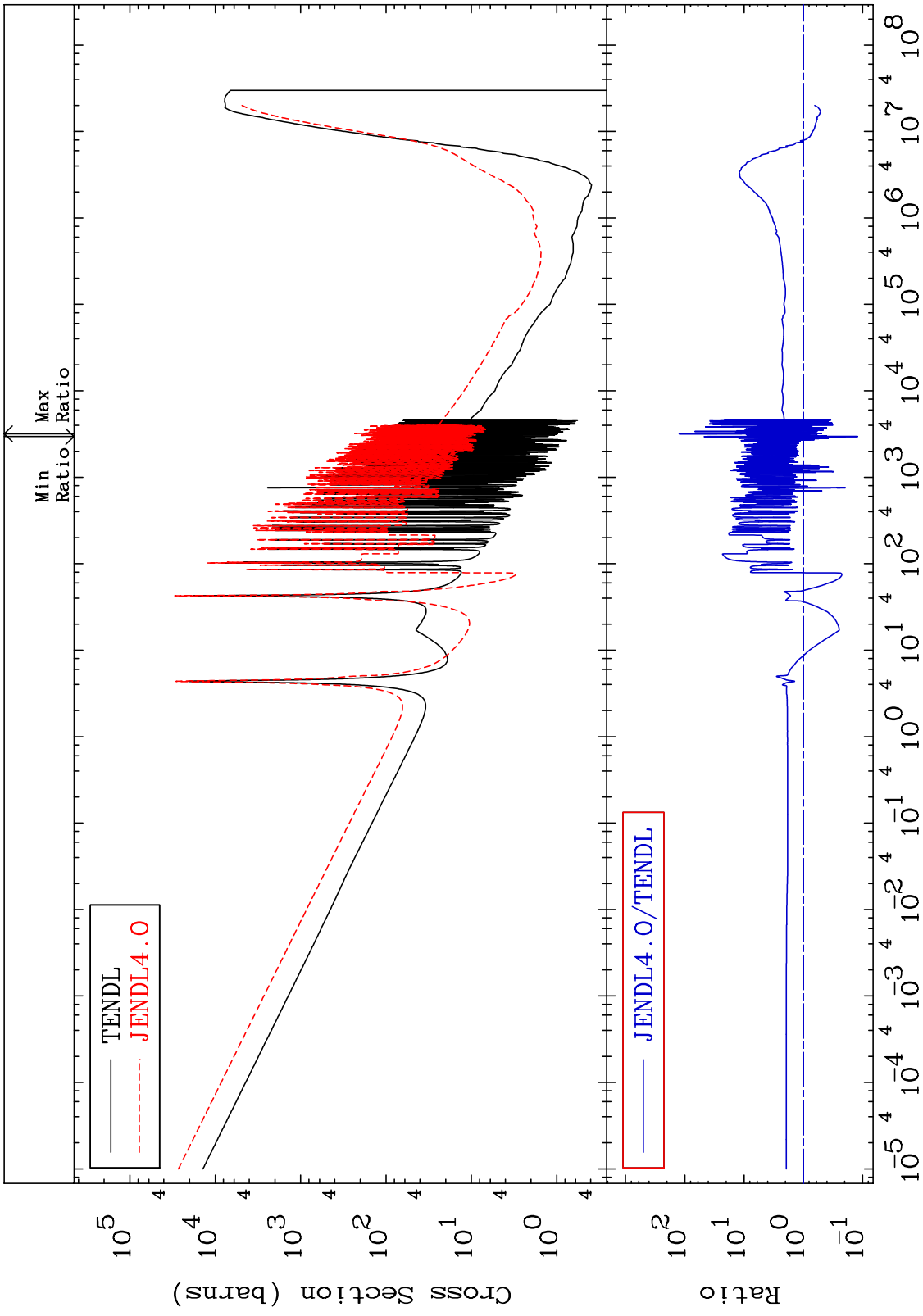


MAT 6034 Dpa inelastic (mt51-91) 60-Nd-145
Cross Section -100.0 To 434.2 %



60 60-Nd-145

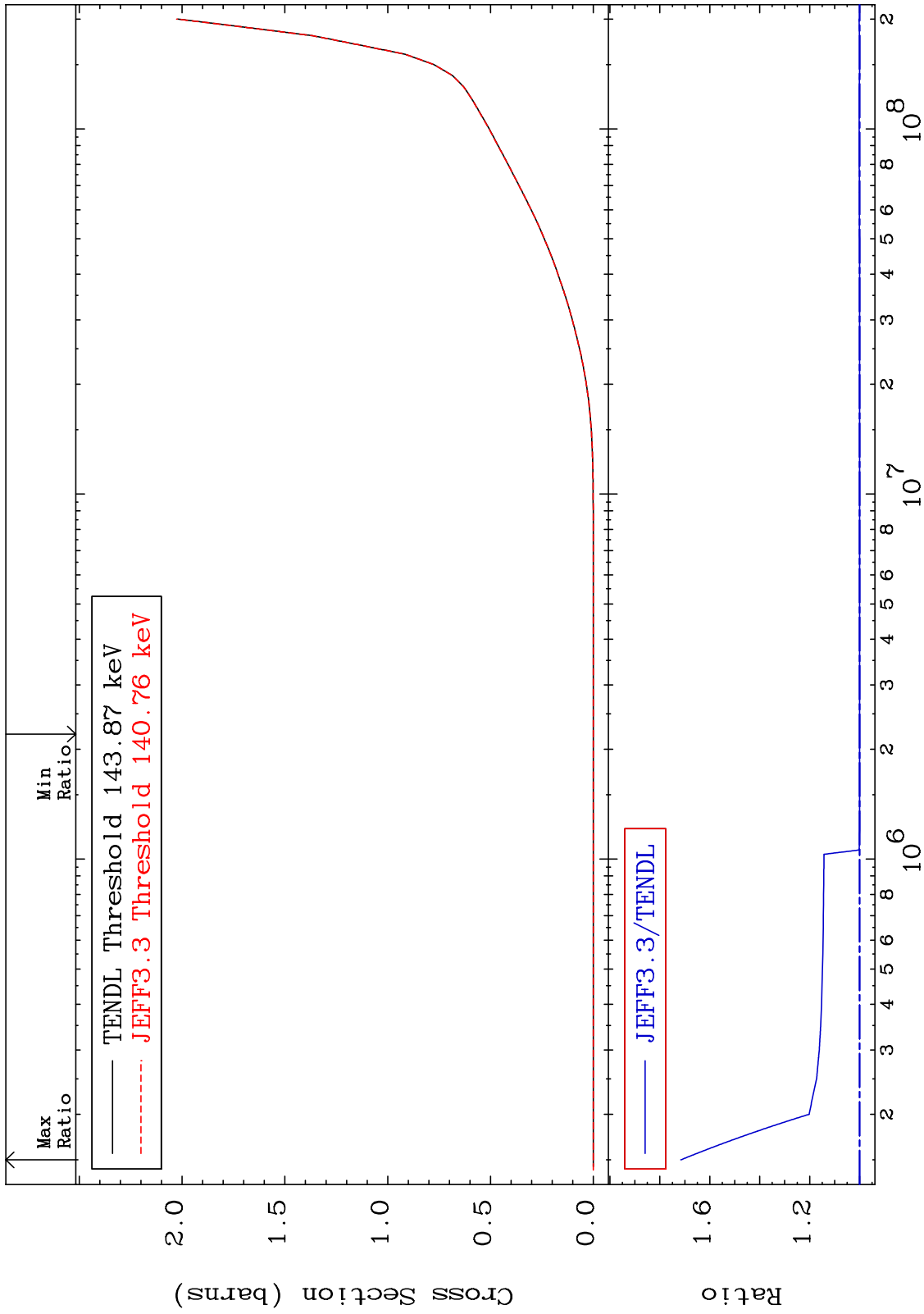
MAT 6034 Dpa disappearance (mt102 -120) 60-Nd-145
 Cross Section -87.98 To 9999. %



MAT 6034

Hydrogen Production
Cross Section

$^{60}\text{Nd-145}$
-0.017 To 71.61 %



62

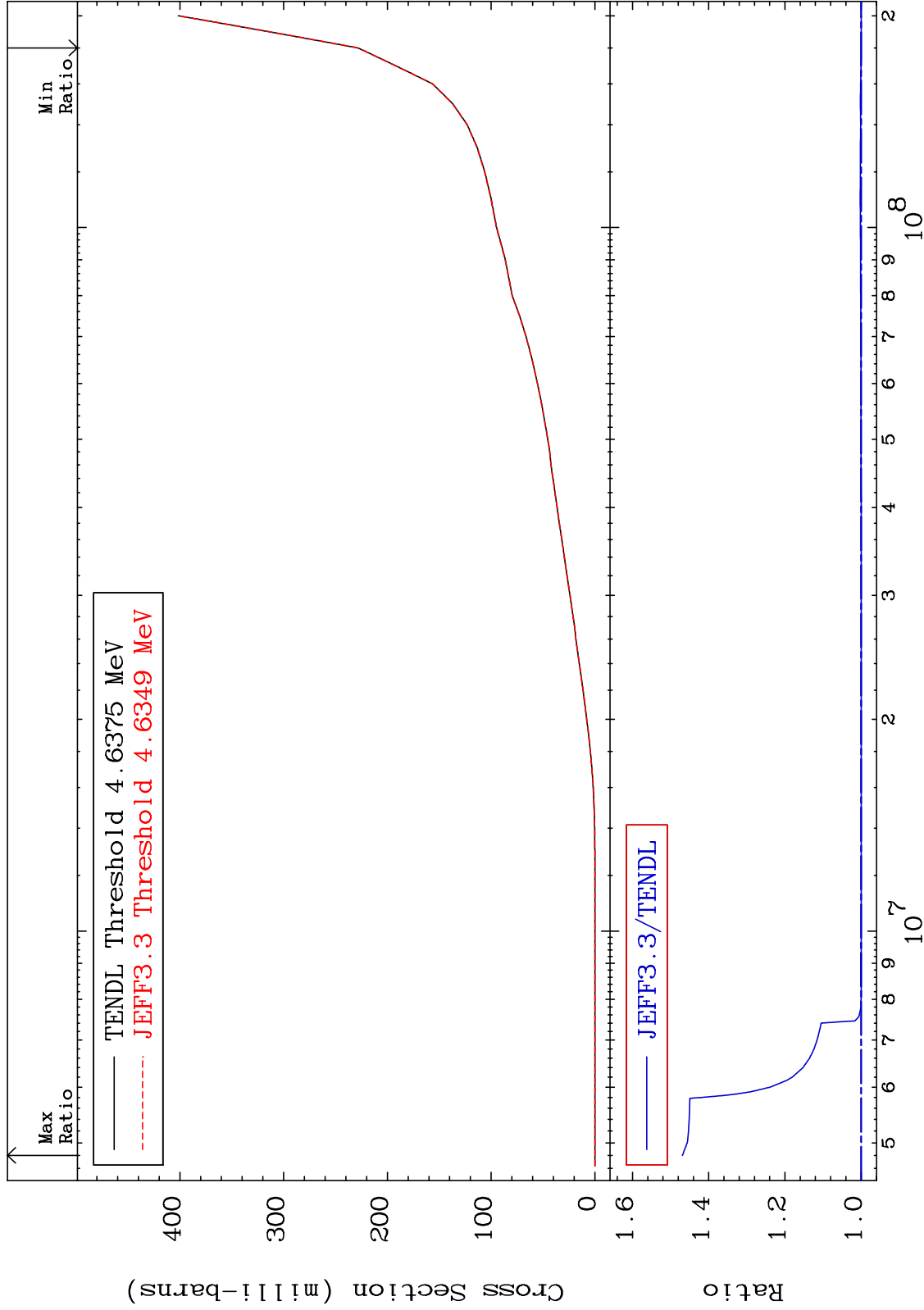
Incident Energy (eV)

$^{60}\text{Nd-145}$

MAT 6034

Deuterium Production
Cross Section

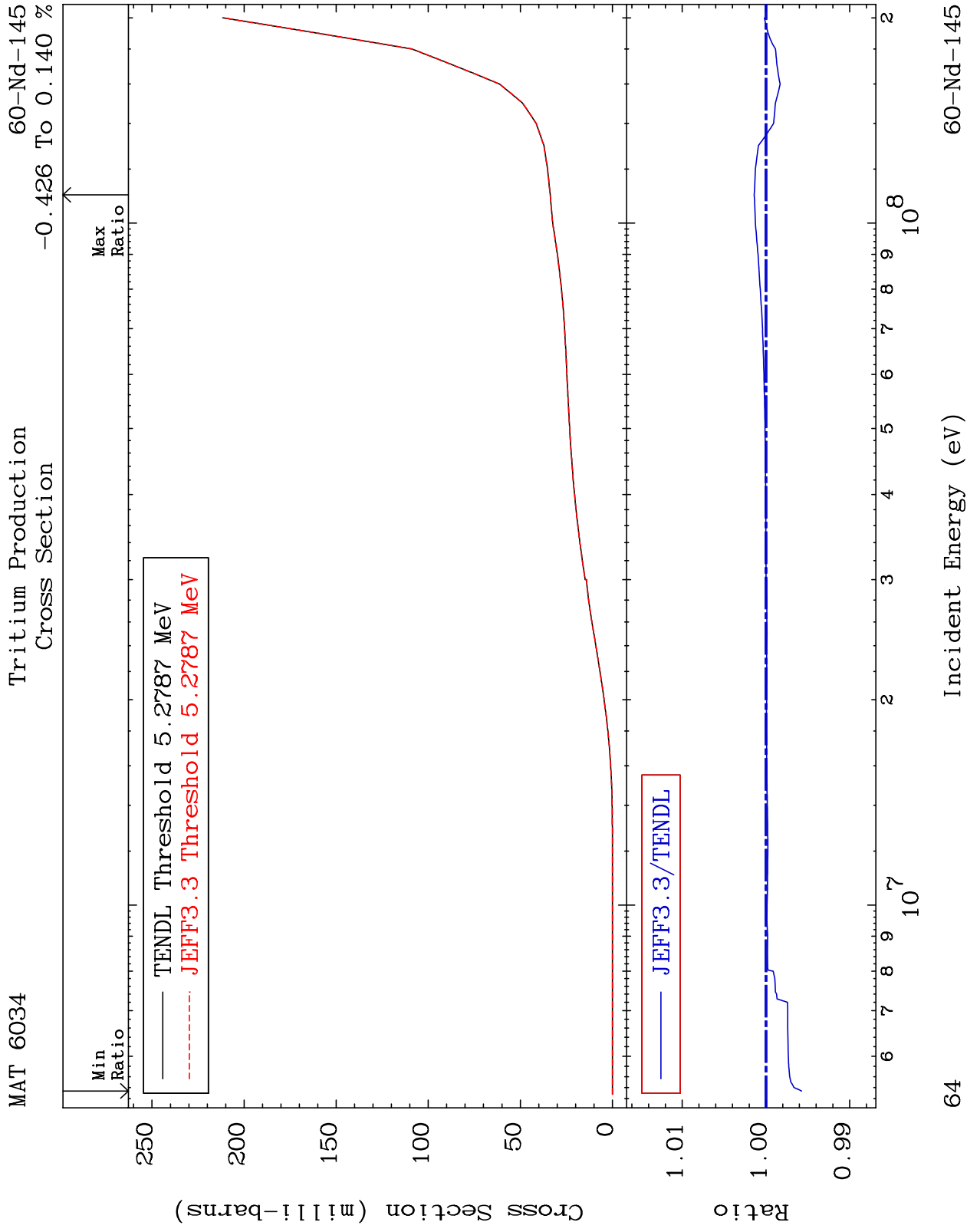
60-Nd-145
-0.033 To 46.90 %



63

Incident Energy (eV)

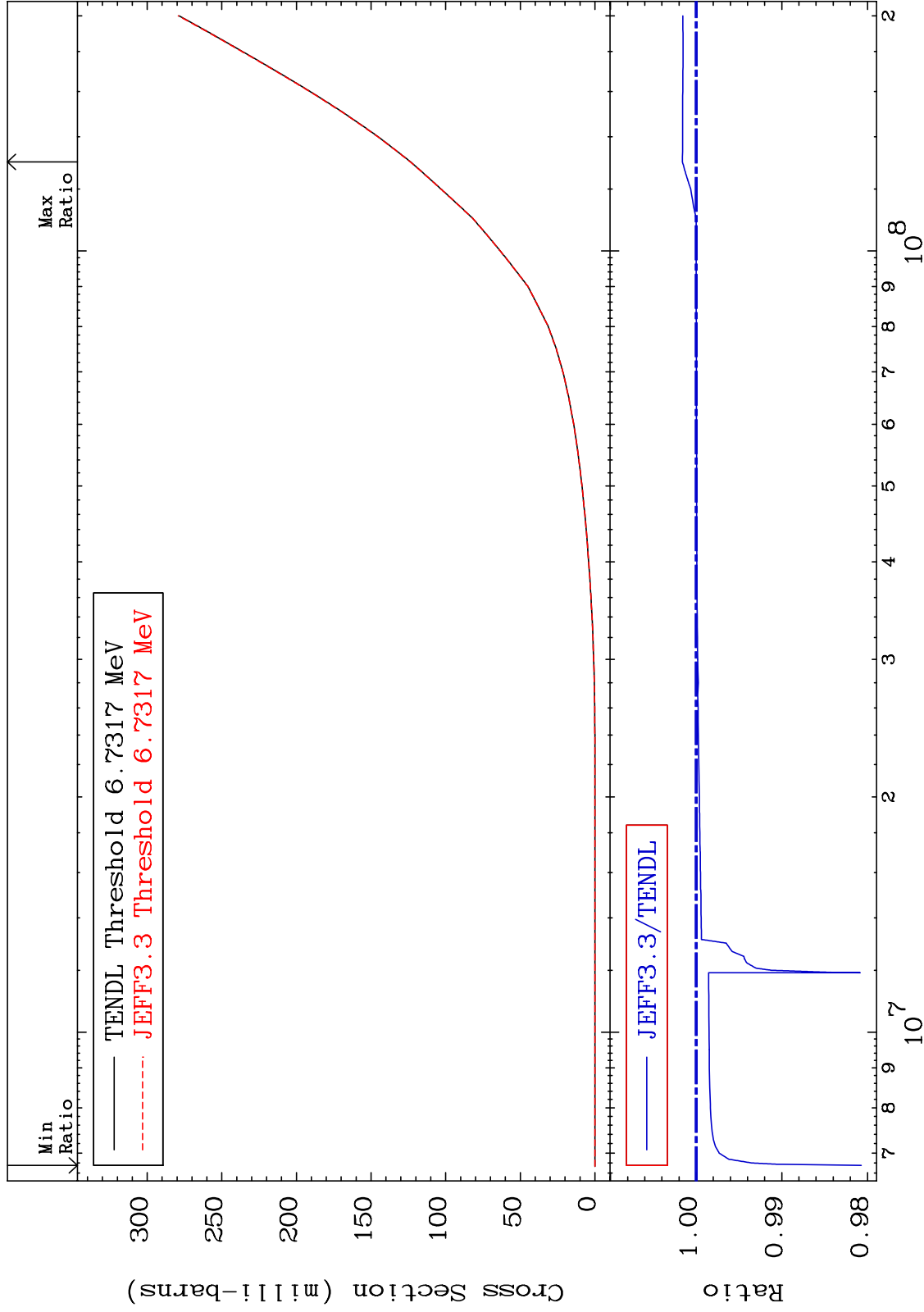
60-Nd-145



MAT 6034

He-3 Production
Cross Section

60-Nd-145
-1.928 To 0.160 %



65

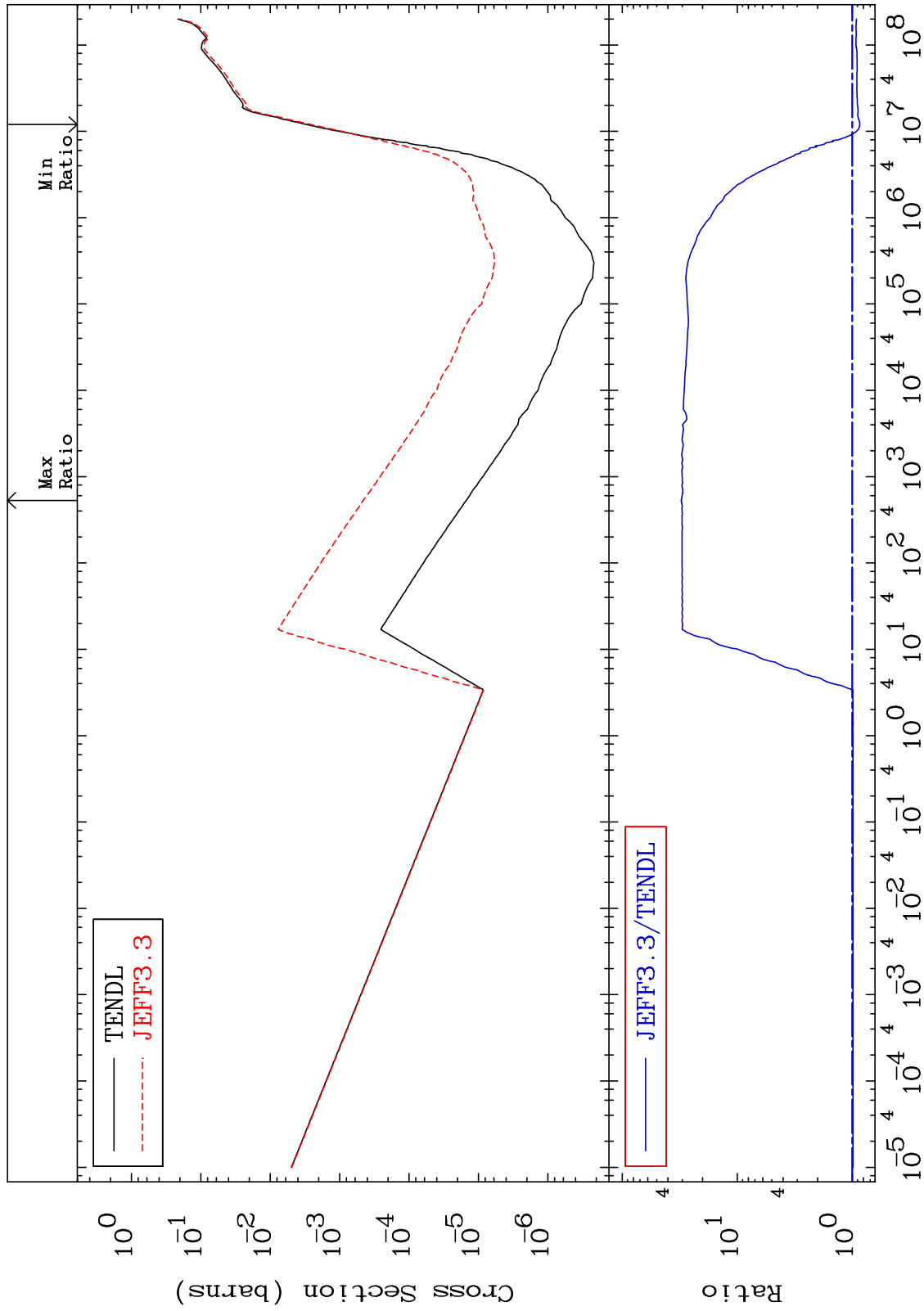
Incident Energy (eV)

60-Nd-145

MAT 6034

He-4 Production
Cross Section

60-Nd-145
-13.93 To 2966. %



66

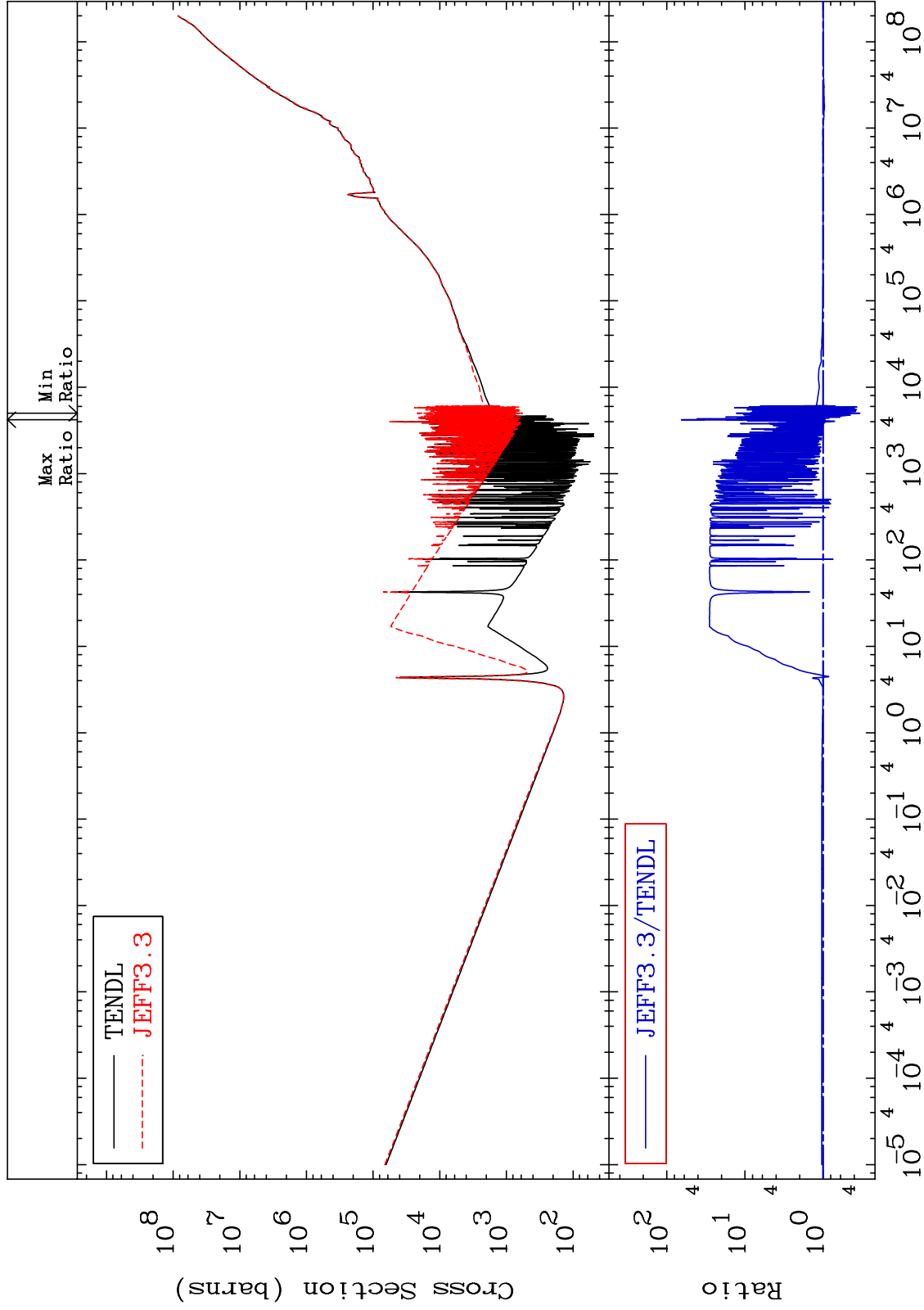
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma total (eV-barns)
Cross Section

60-Nd-145
-66.02 To 6438. %



67

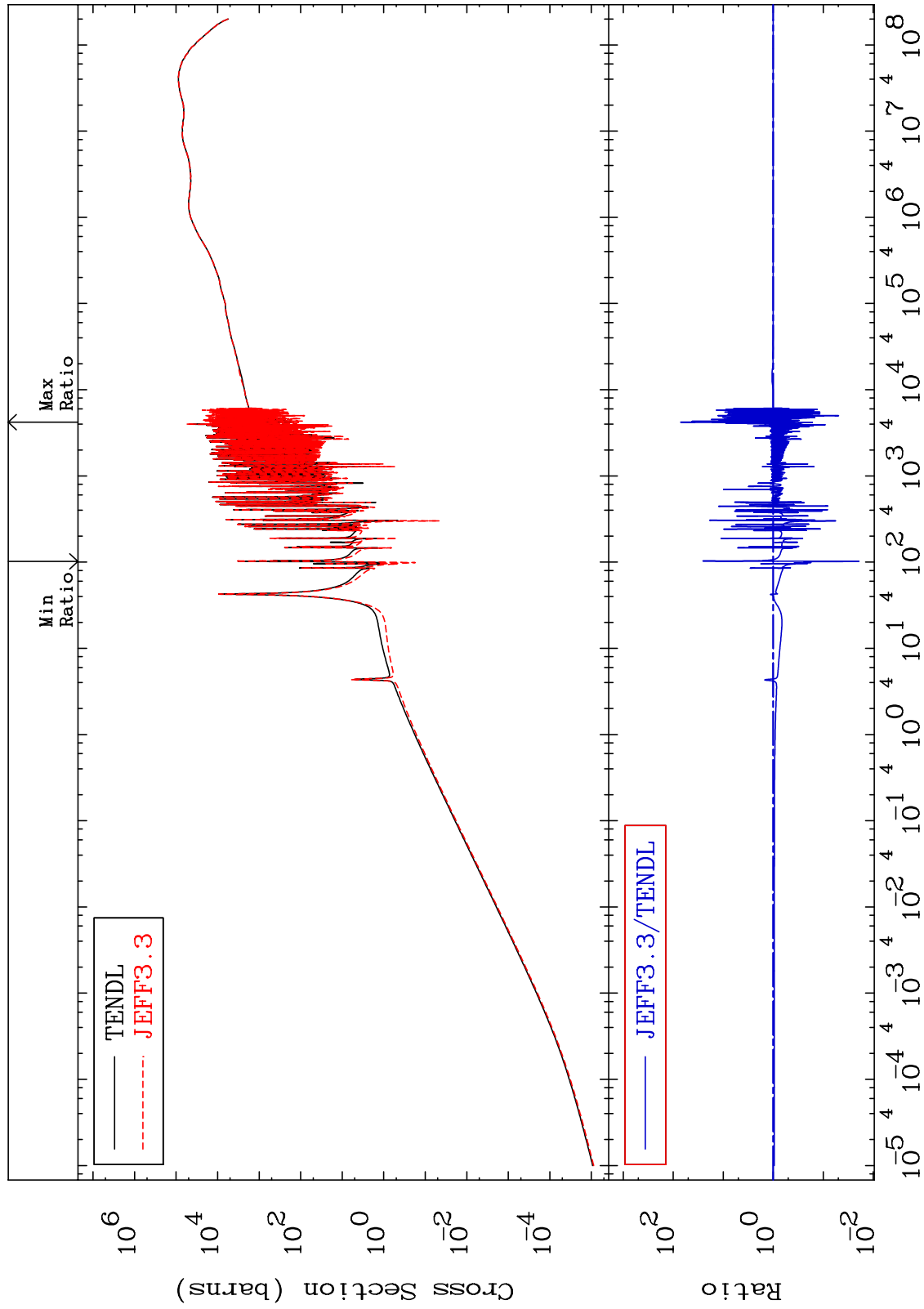
Incident Energy (eV)

60-Nd-145

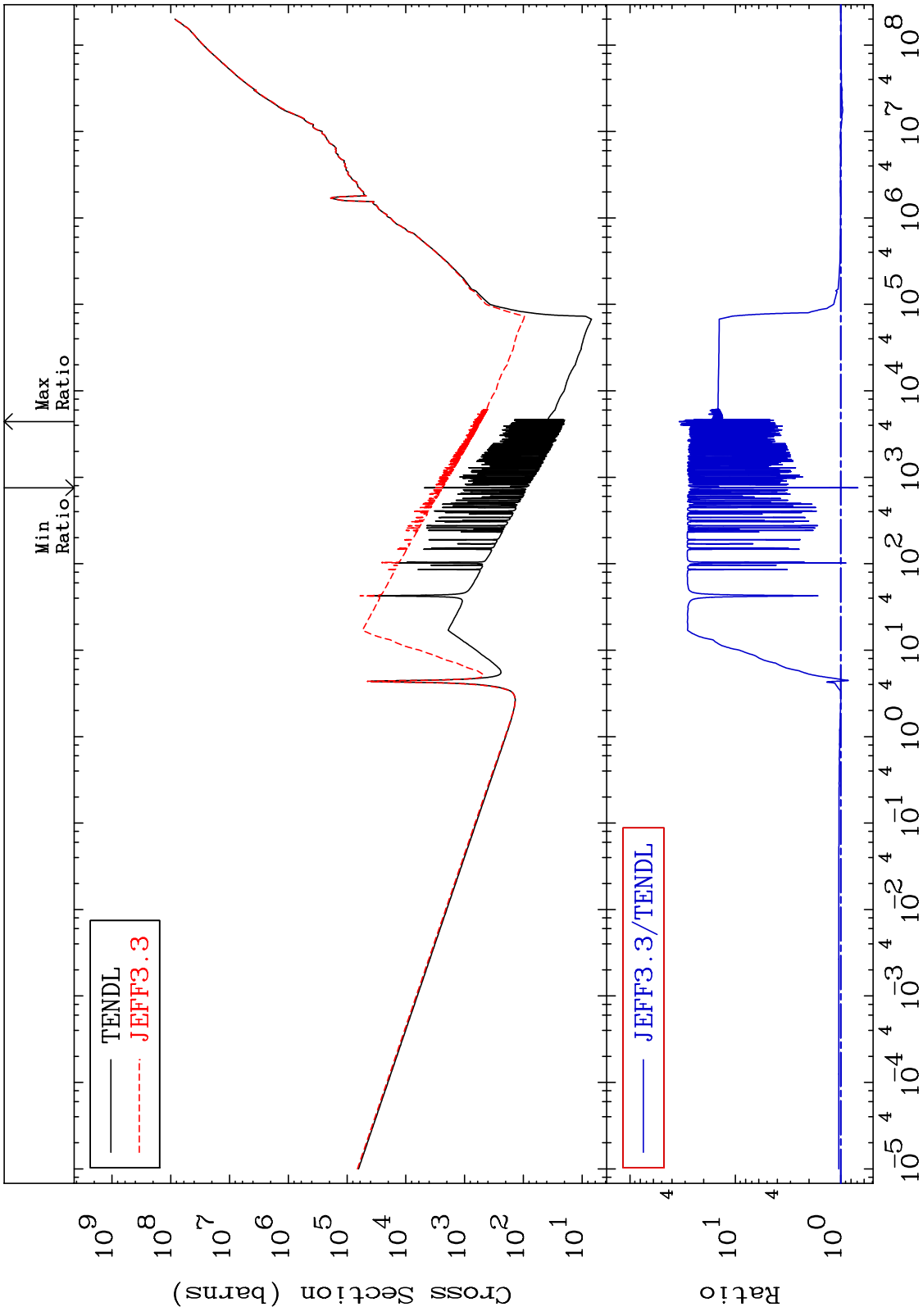
MAT 6034

Kerma elastic
Cross Section

60-Nd-145
-98.08 To 6929. %



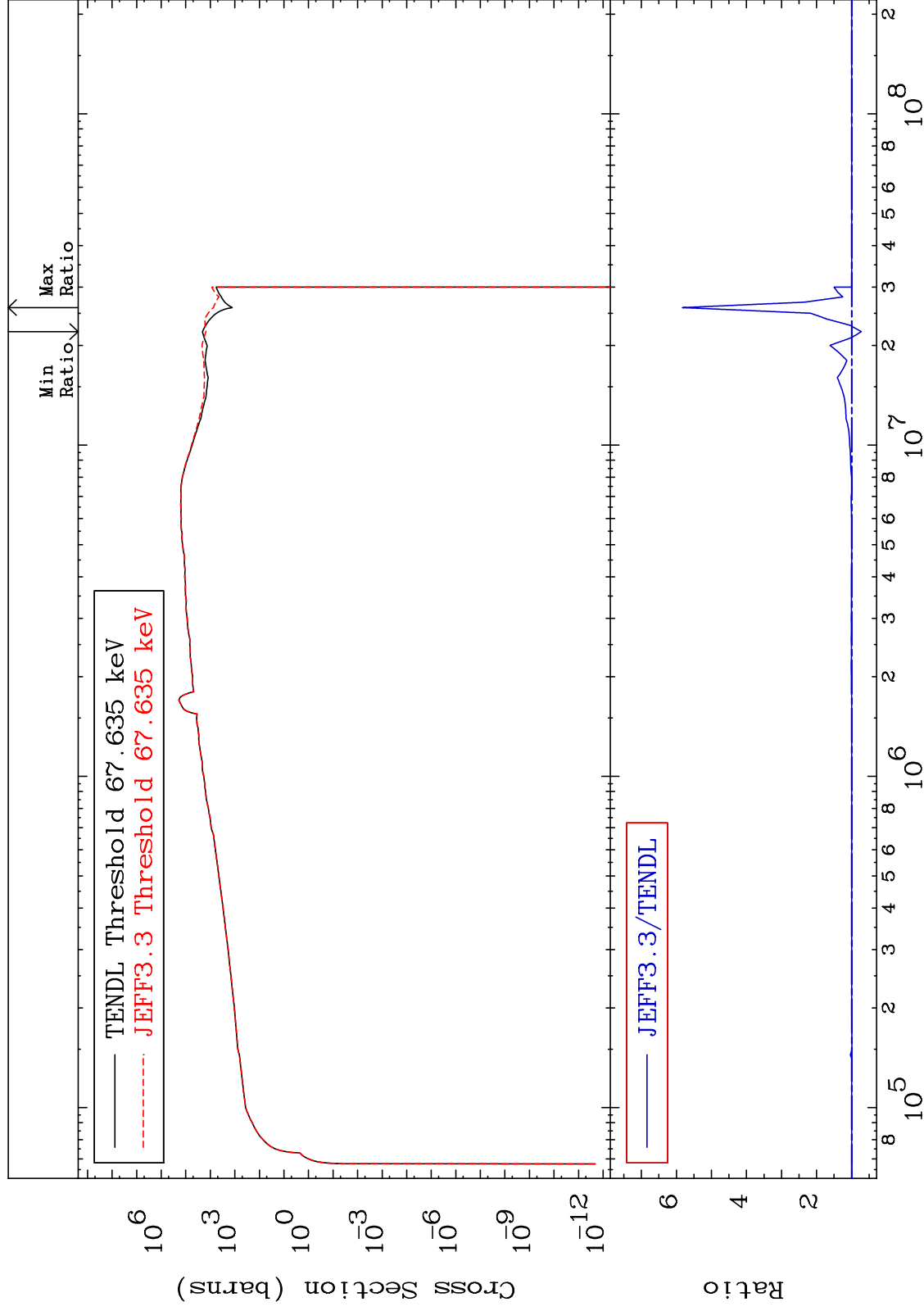
MAT 6034 Kerma non-elastic (all but mt2) 60-Nd-145
 Cross Section -31.13 To 3327. %



MAT 6034

Kerma inelastic (mt51-91)
Cross Section

60-Nd-145
-27.78 To 482.0 %



70

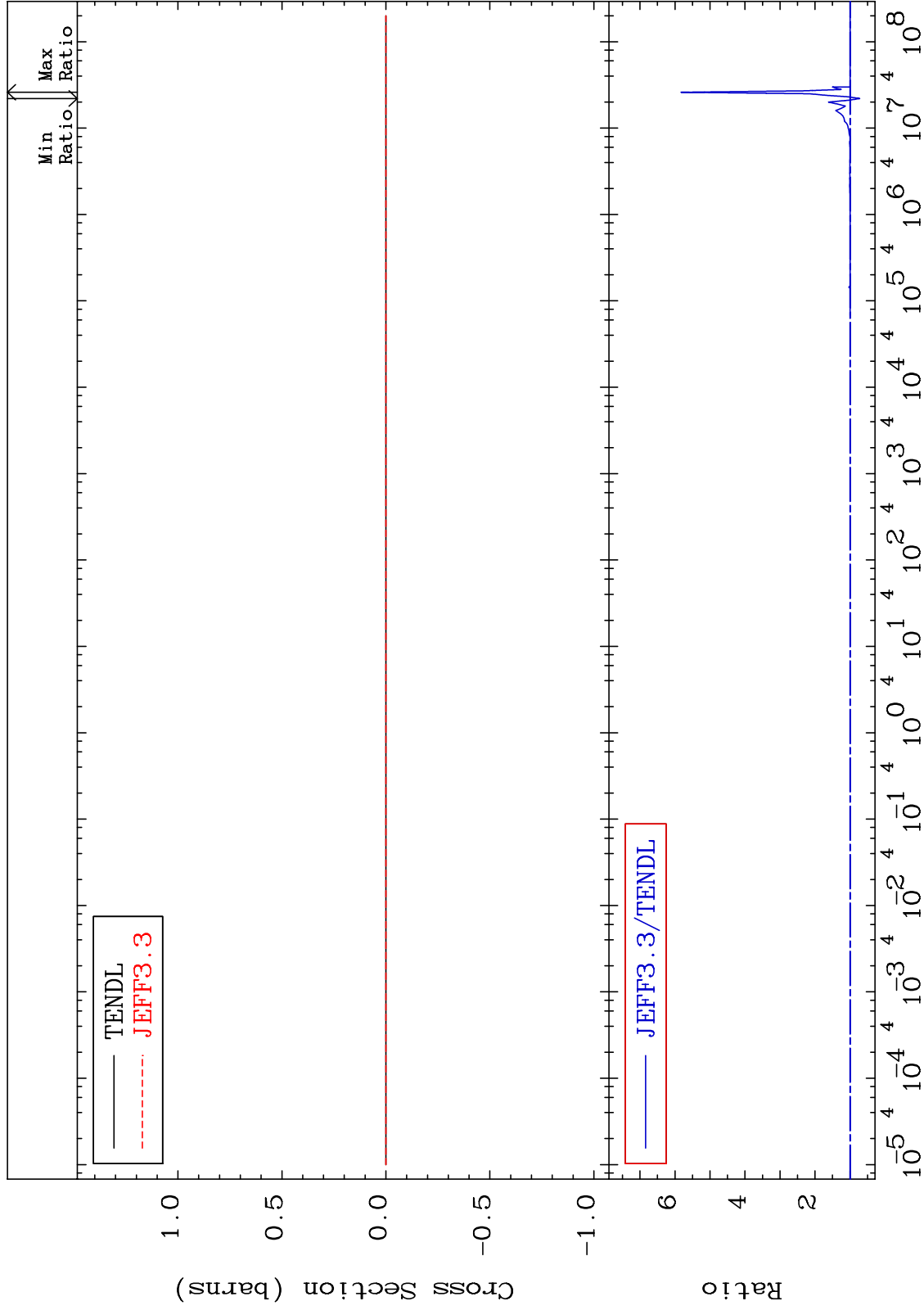
Incident Energy (eV)

60-Nd-145

MAT 6034

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

60-Nd-145
-27.78 To 482.0 %



71

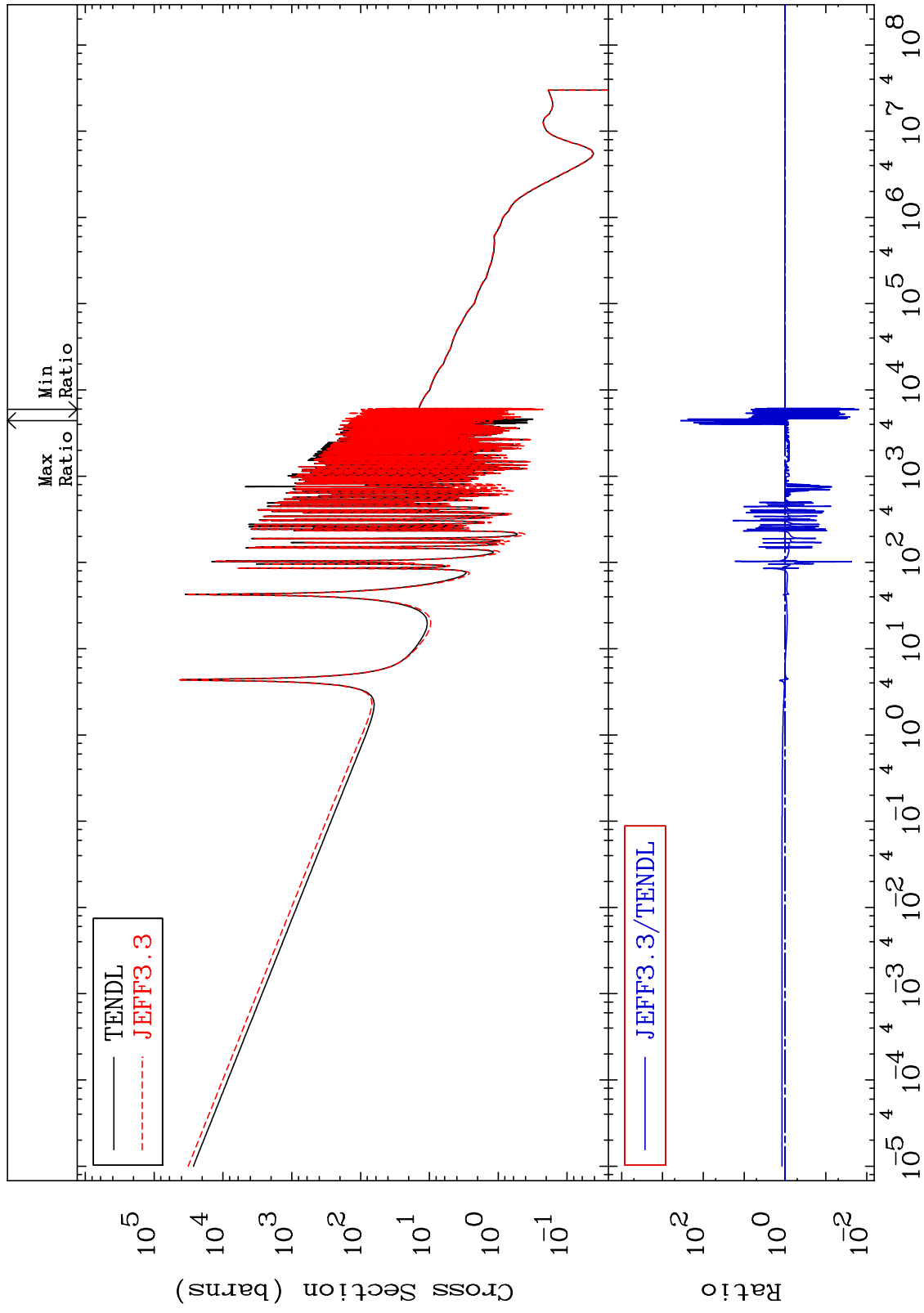
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma capture (mt102)
Cross Section

60-Nd-145
-98.46 To 9999. %



72

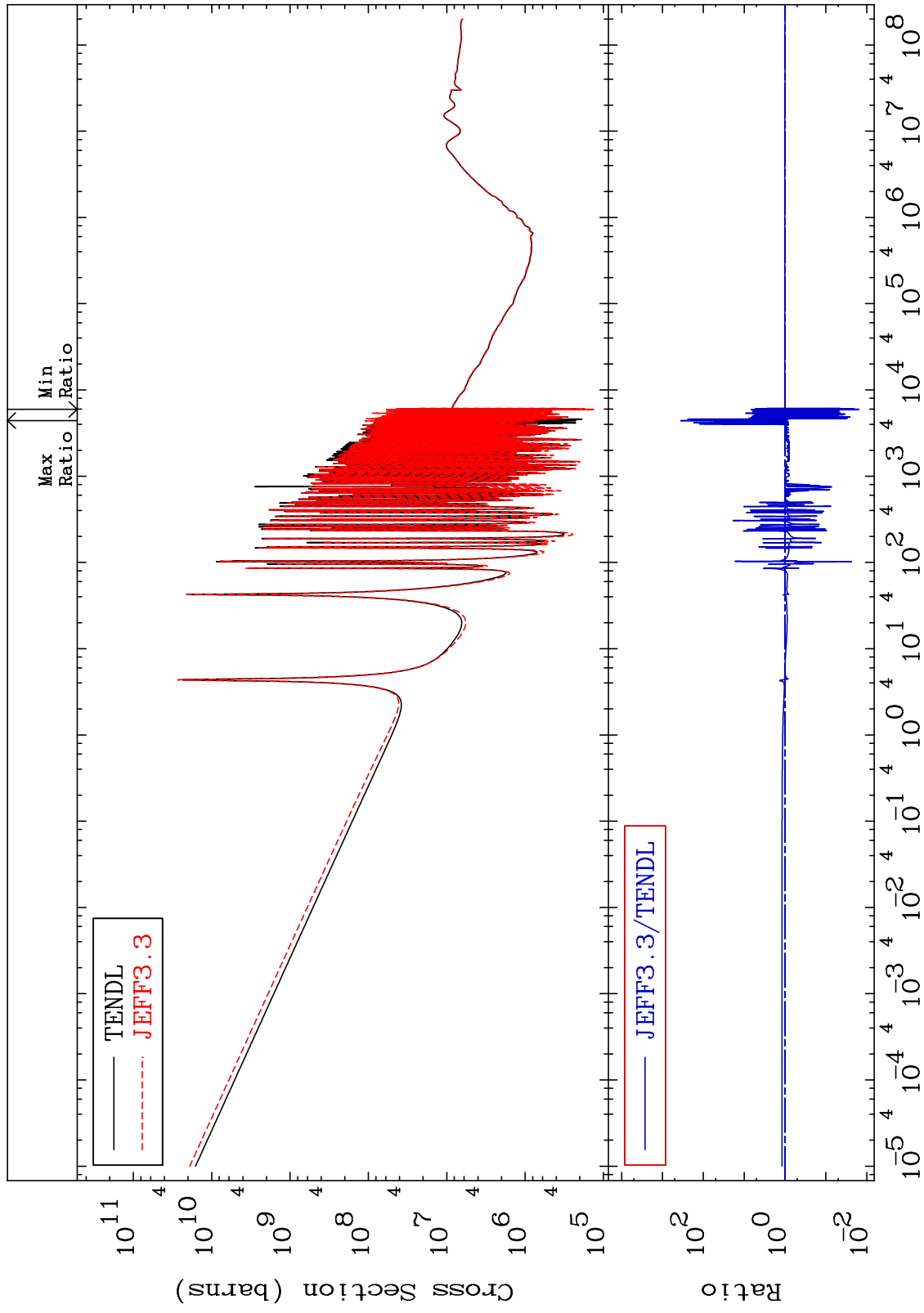
Incident Energy (eV)

60-Nd-145

MAT 6034

Total photon (eV-barns)
Cross Section

60-Nd-145
-98.46 To 9999. %



73

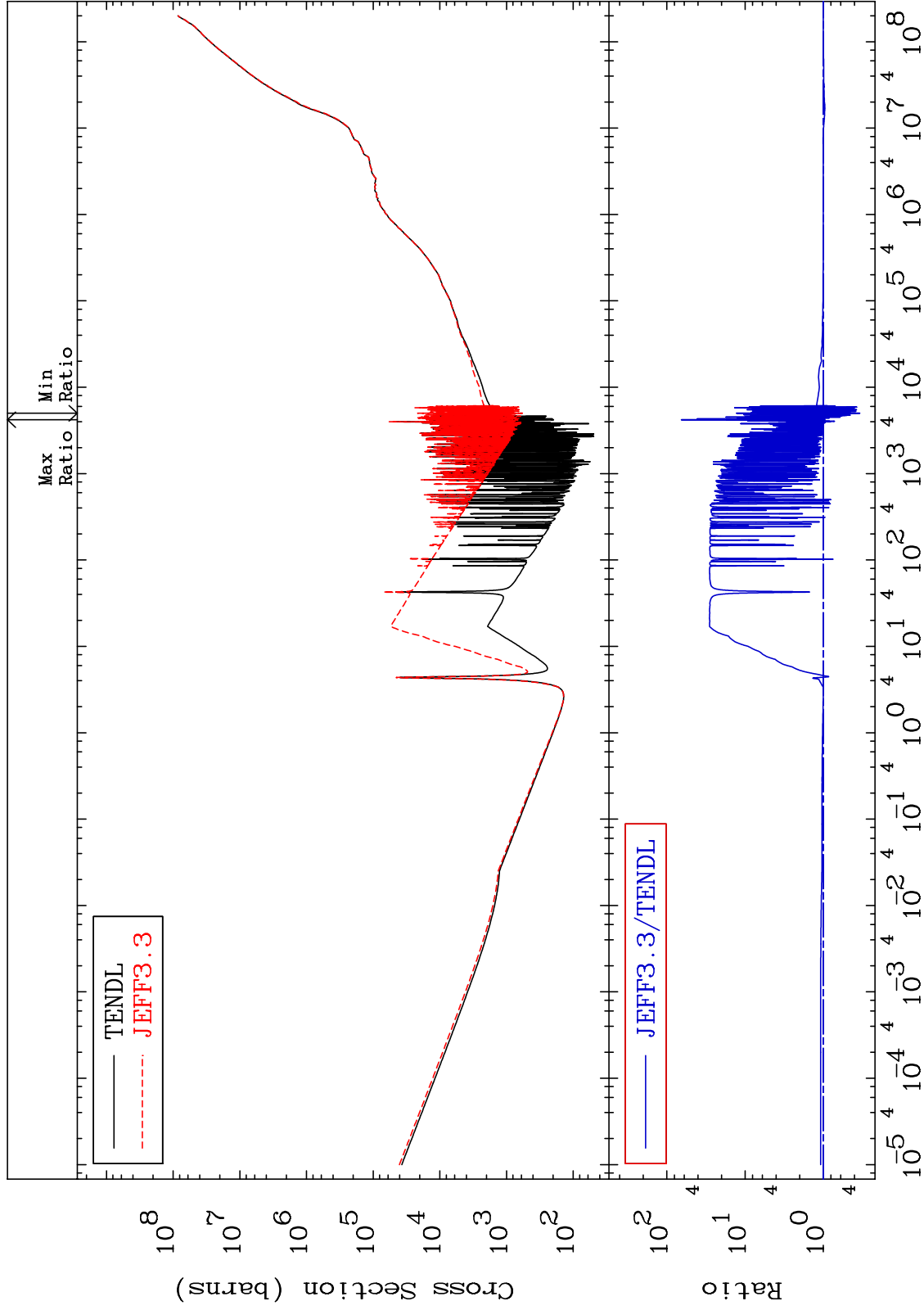
Incident Energy (eV)

60-Nd-145

MAT 6034

Total kinematic kerma (high limit)
Cross Section

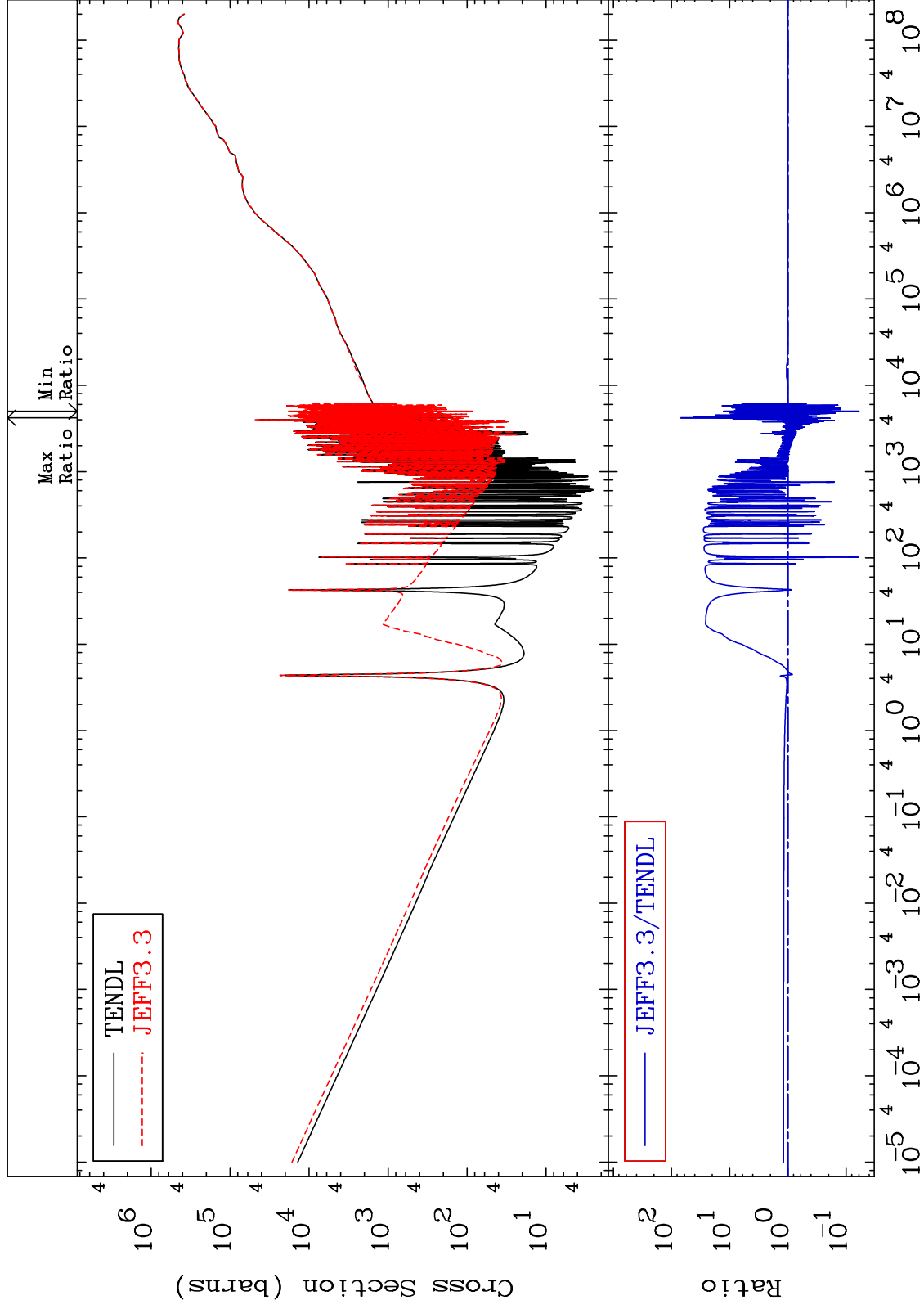
60-Nd-145
-65.83 To 6436. %



MAT 6034

Dpa total (eV-barns)
Cross Section

60-Nd-145
-94.01 To 6862. %



75

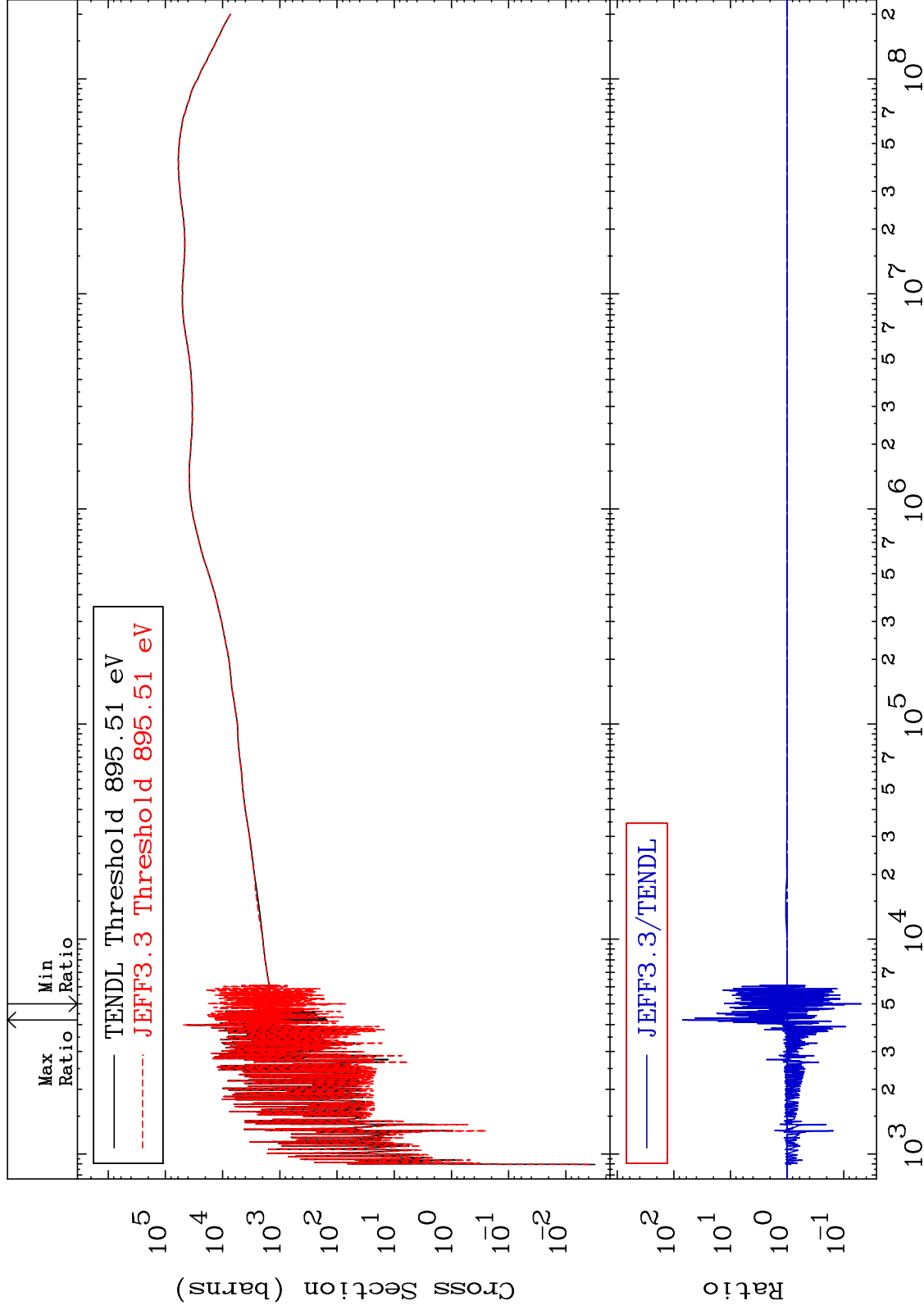
Incident Energy (eV)

60-Nd-145

MAT 6034

Dpa elastic (mt2)
Cross Section

60-Nd-145
-95.11 To 6929. %

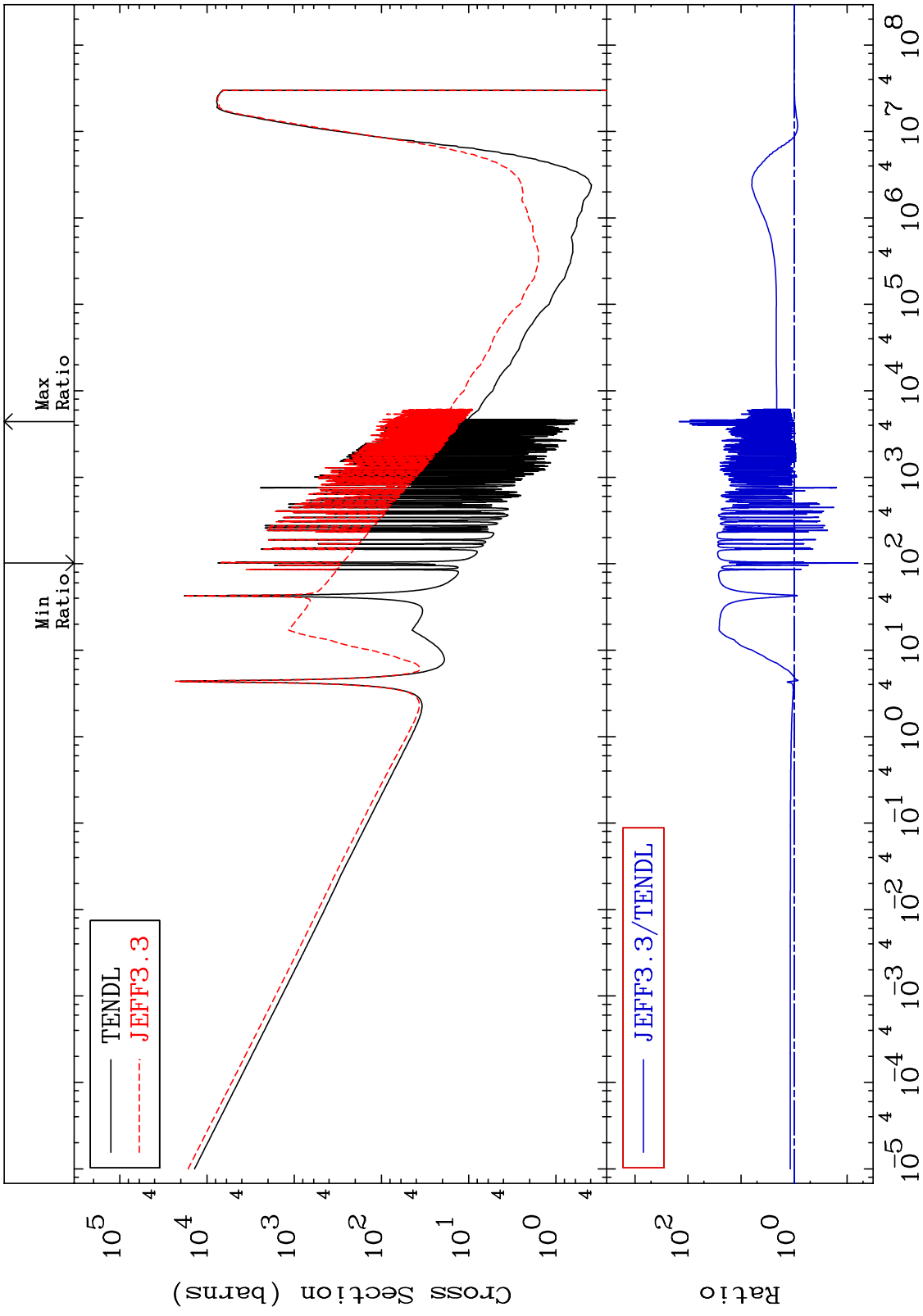


76

Incident Energy (eV)

60-Nd-145

MAT 6034 Dpa disappearance (mt102 -120) 60-Nd-145
 Cross Section -93.72 To 9999. %

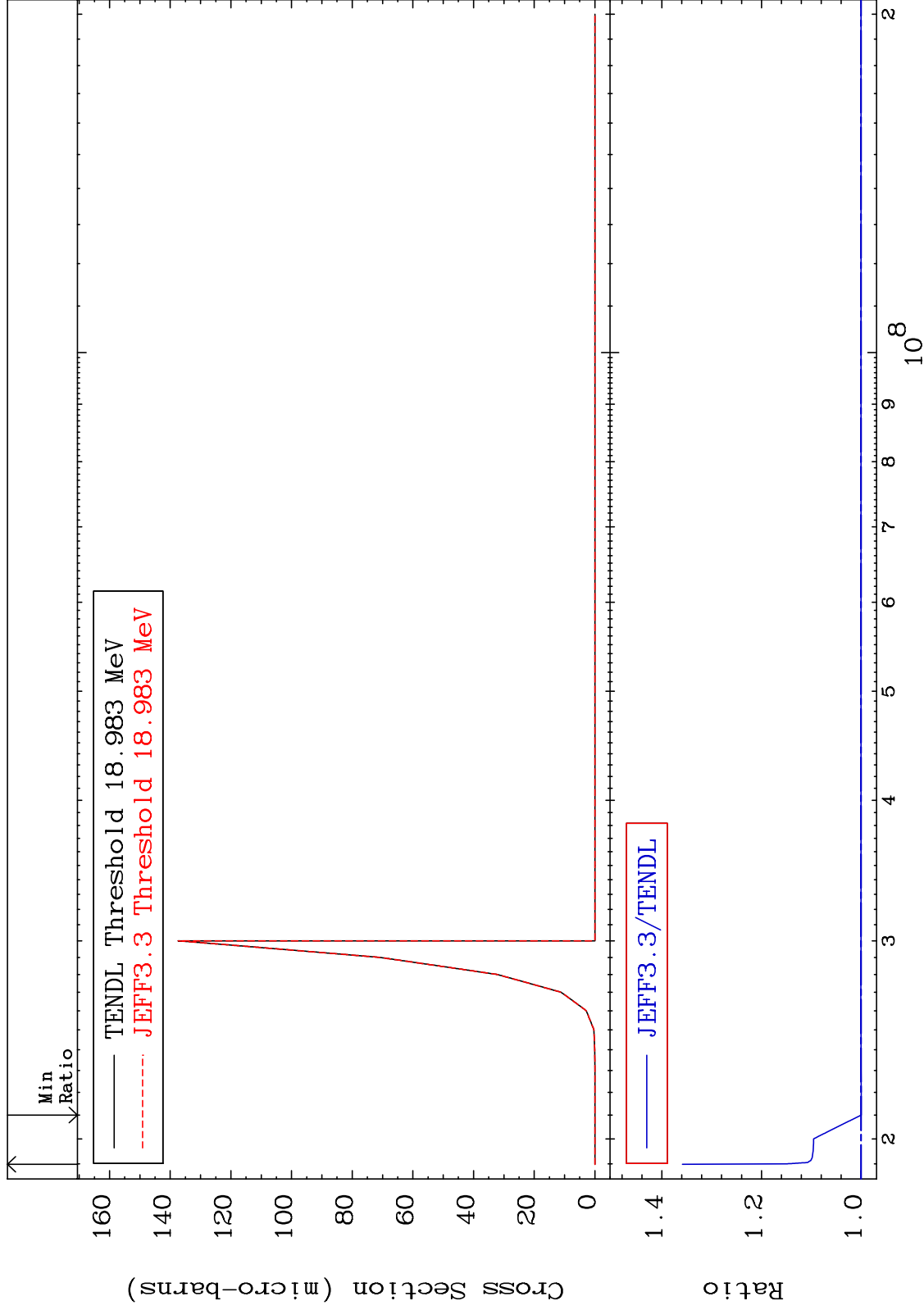


MAT 6034

(n,2n) d:59-Pr-142g

60-Nd-145

Radionuclide Production Cross Section -0.034 To 35.86 %



79

Incident Energy (eV)

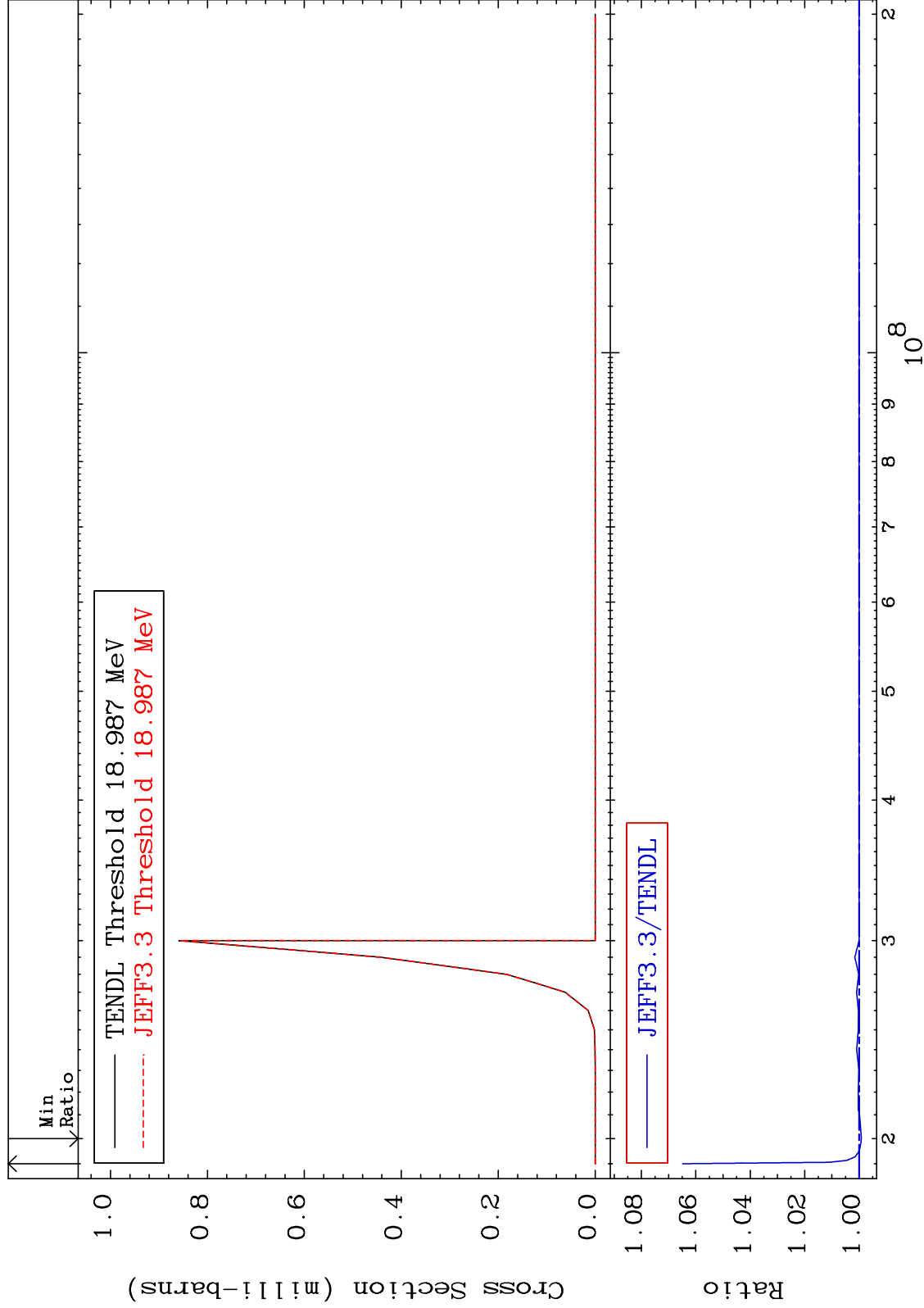
60-Nd-145

MAT 6034

(n,2n) d:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section -0.083 To 6.483 %



80

Incident Energy (eV)

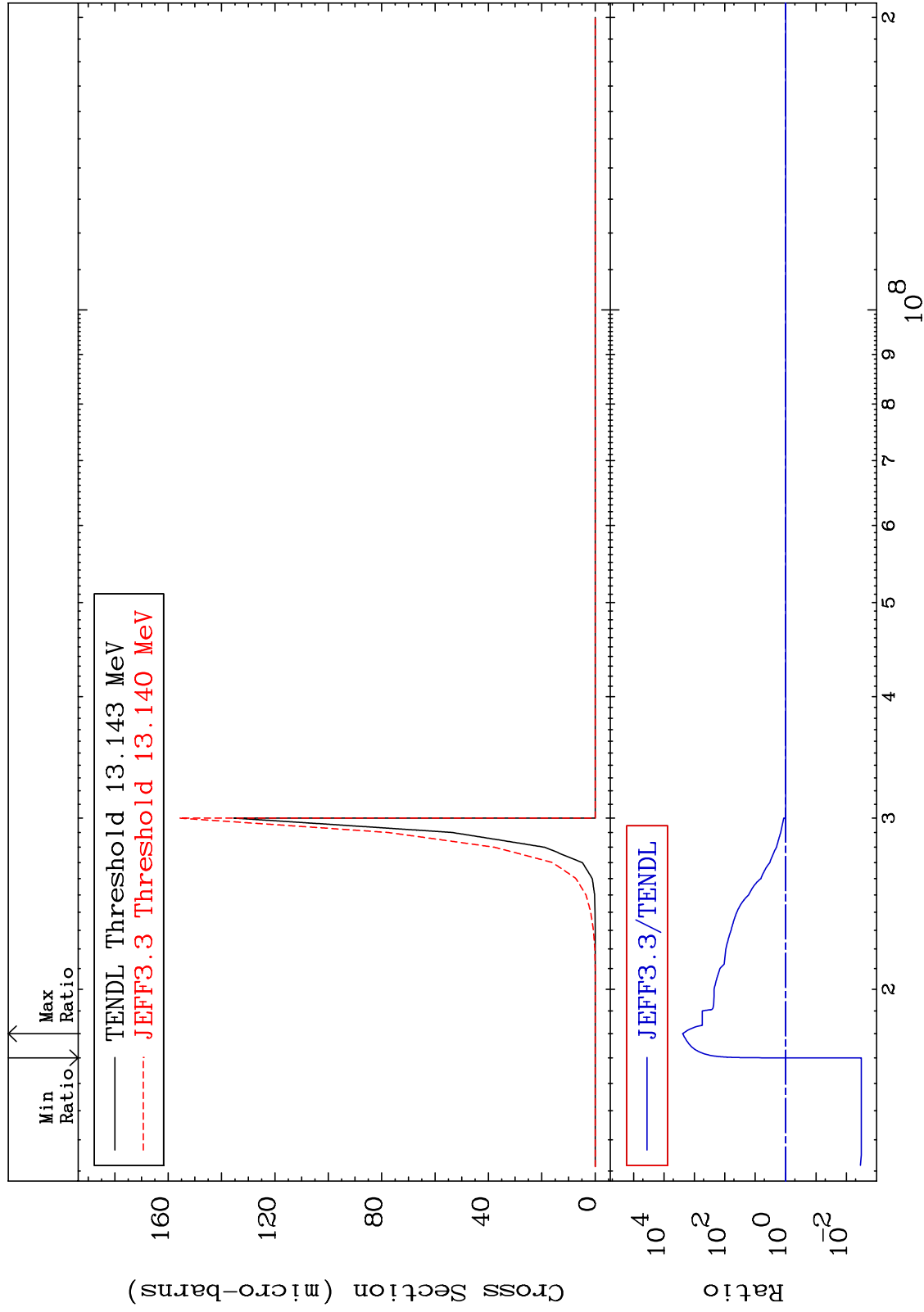
60-Nd-145

MAT 6034

(n,3n) α :58-Ce-139g

60-Nd-145

Radionuclide Production Cross Section -99.68 To 9999. %

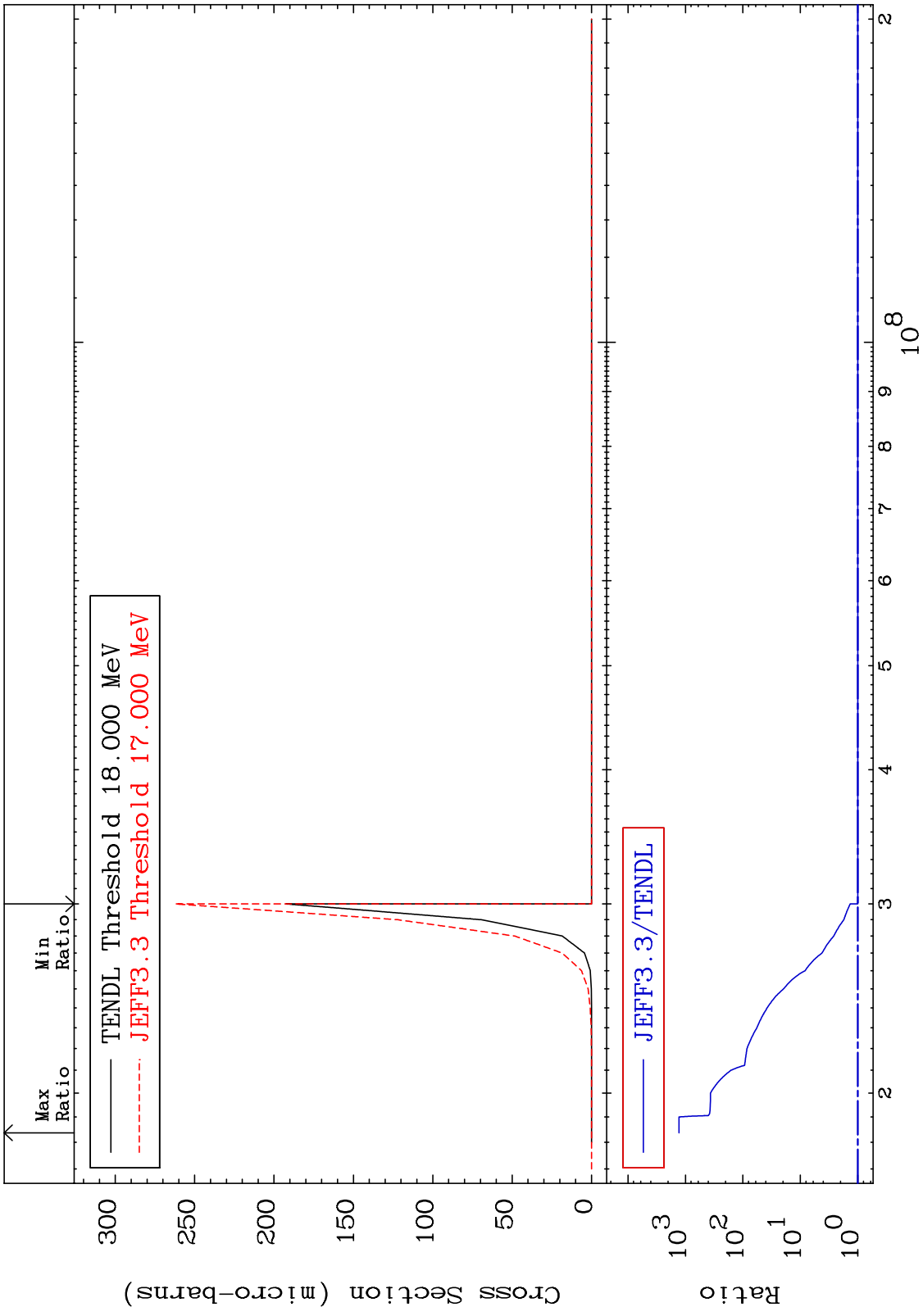


MAT 6034

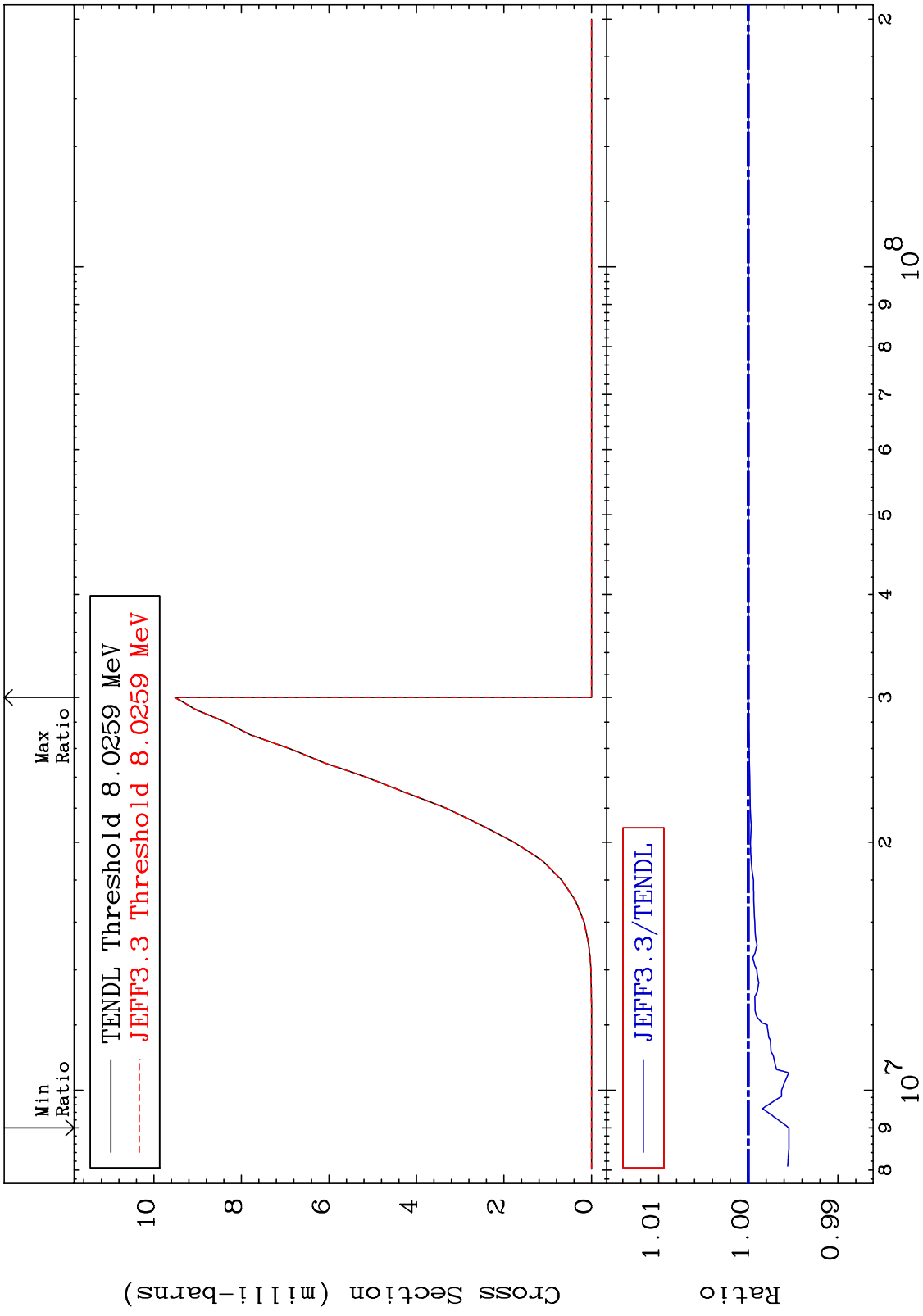
(n,3n) α :58-Ce-139m2

60-Nd-145

Radionuclide Production Cross Section 0.000 To 9999. %



MAT 6034 (n, n') p:59-Pr-144g 60-Nd-145
 Radionuclide Production Cross Section -0.454 To 0.005 %

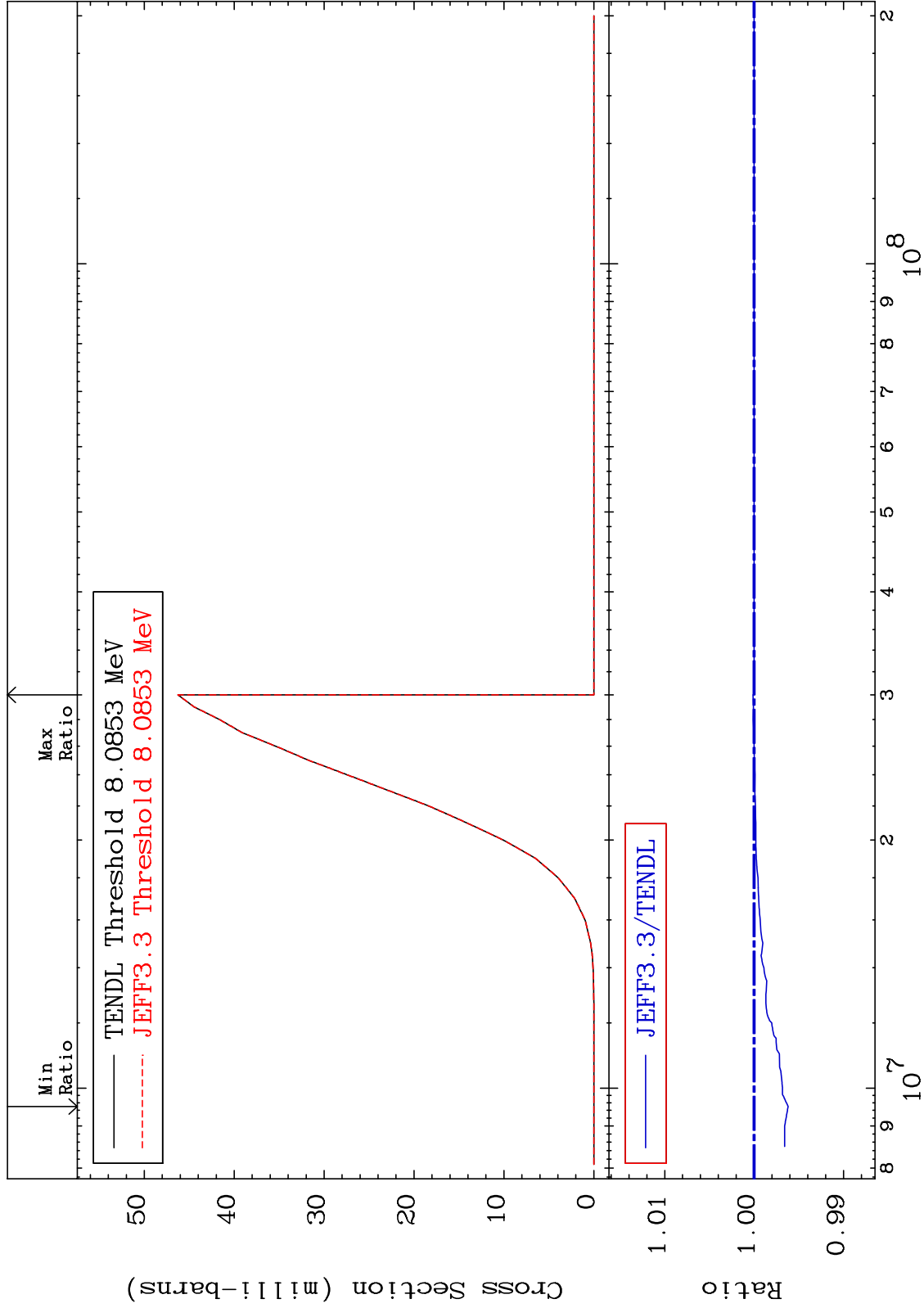


MAT 6034

(n,n') p:59-Pr-144m1

60-Nd-145

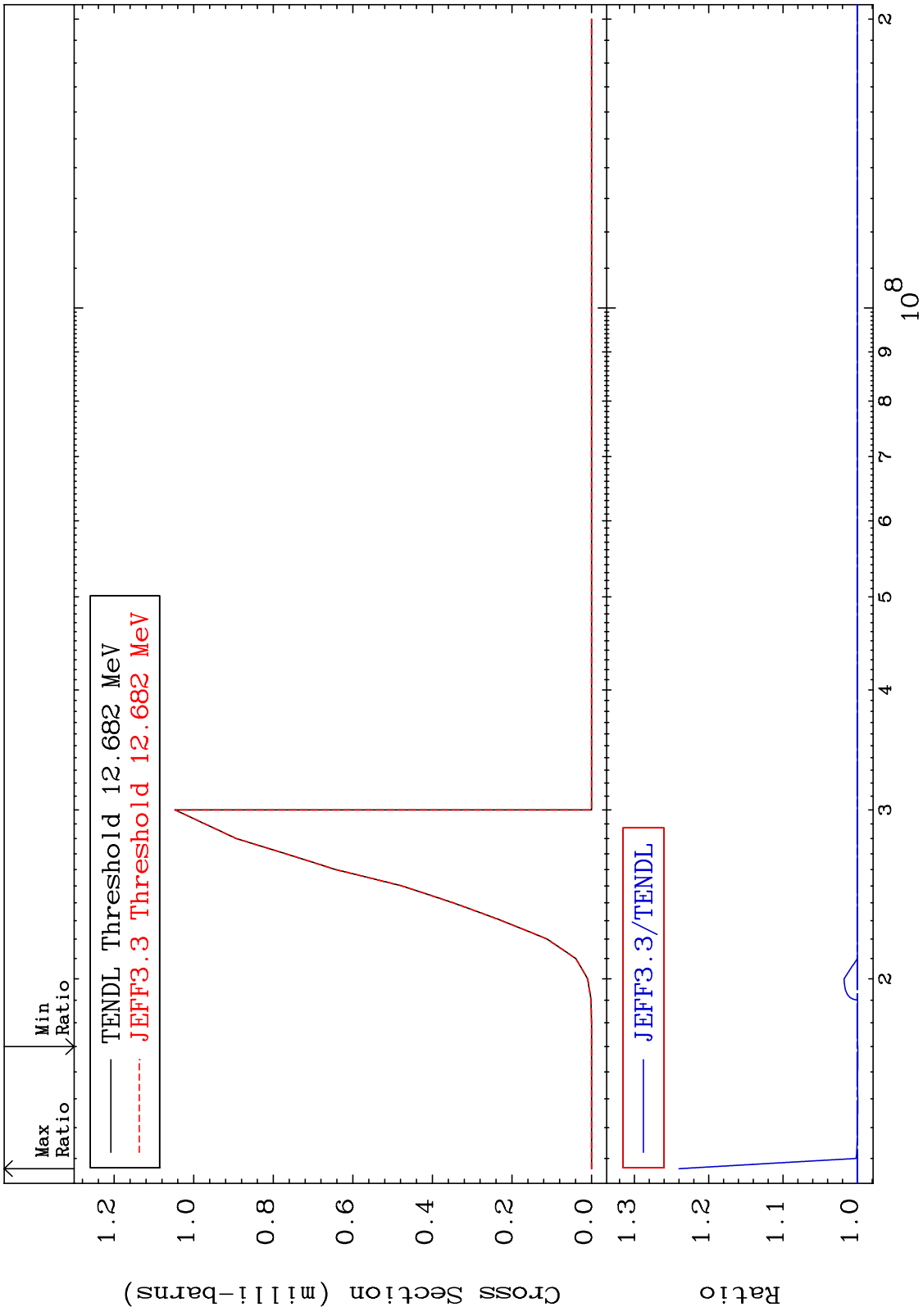
Radionuclide Production Cross Section -0.380 To 0.014 %



84

Incident Energy (eV)

60-Nd-145

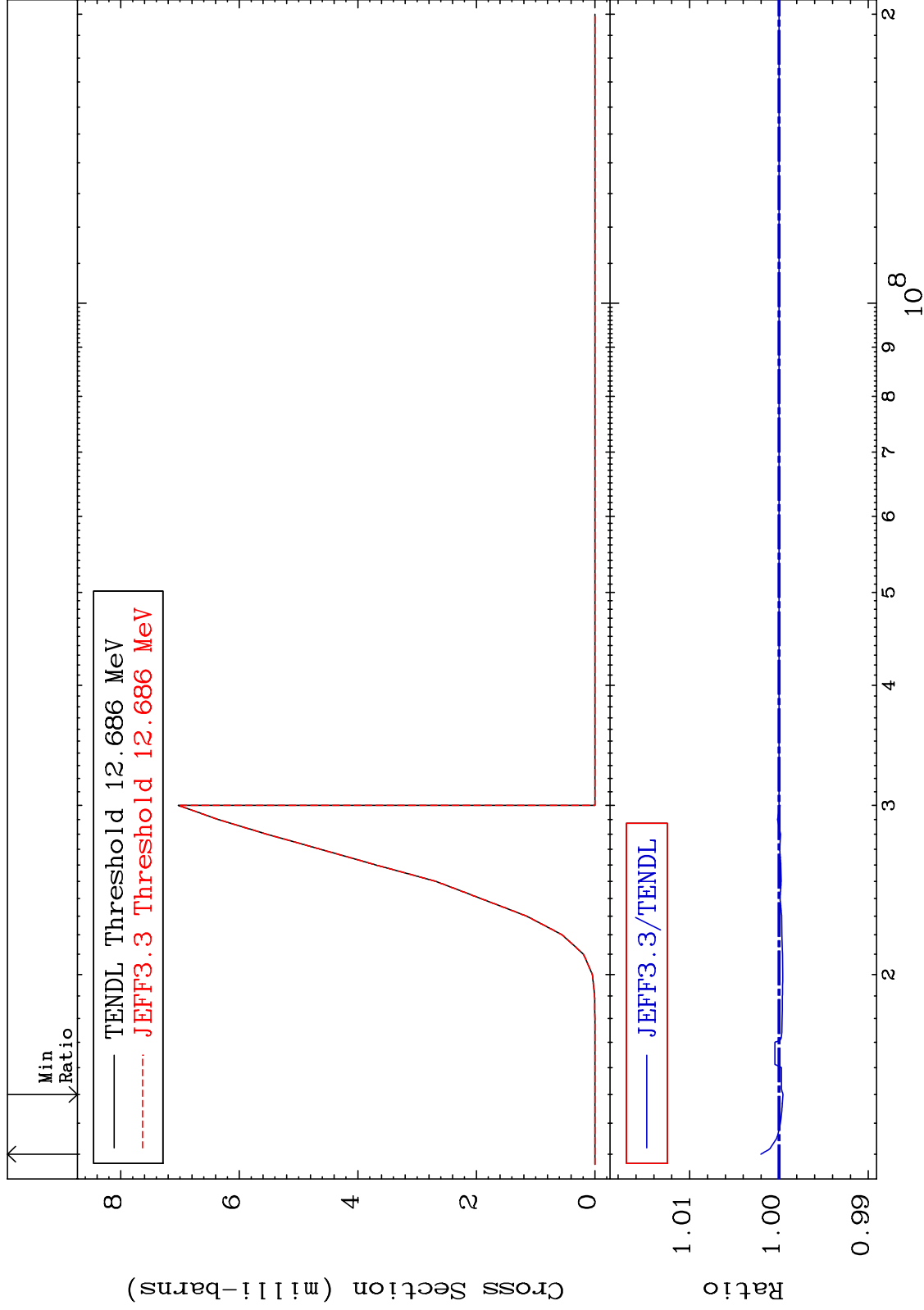


MAT 6034

(n,n') t:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section -0.044 To 0.203 %



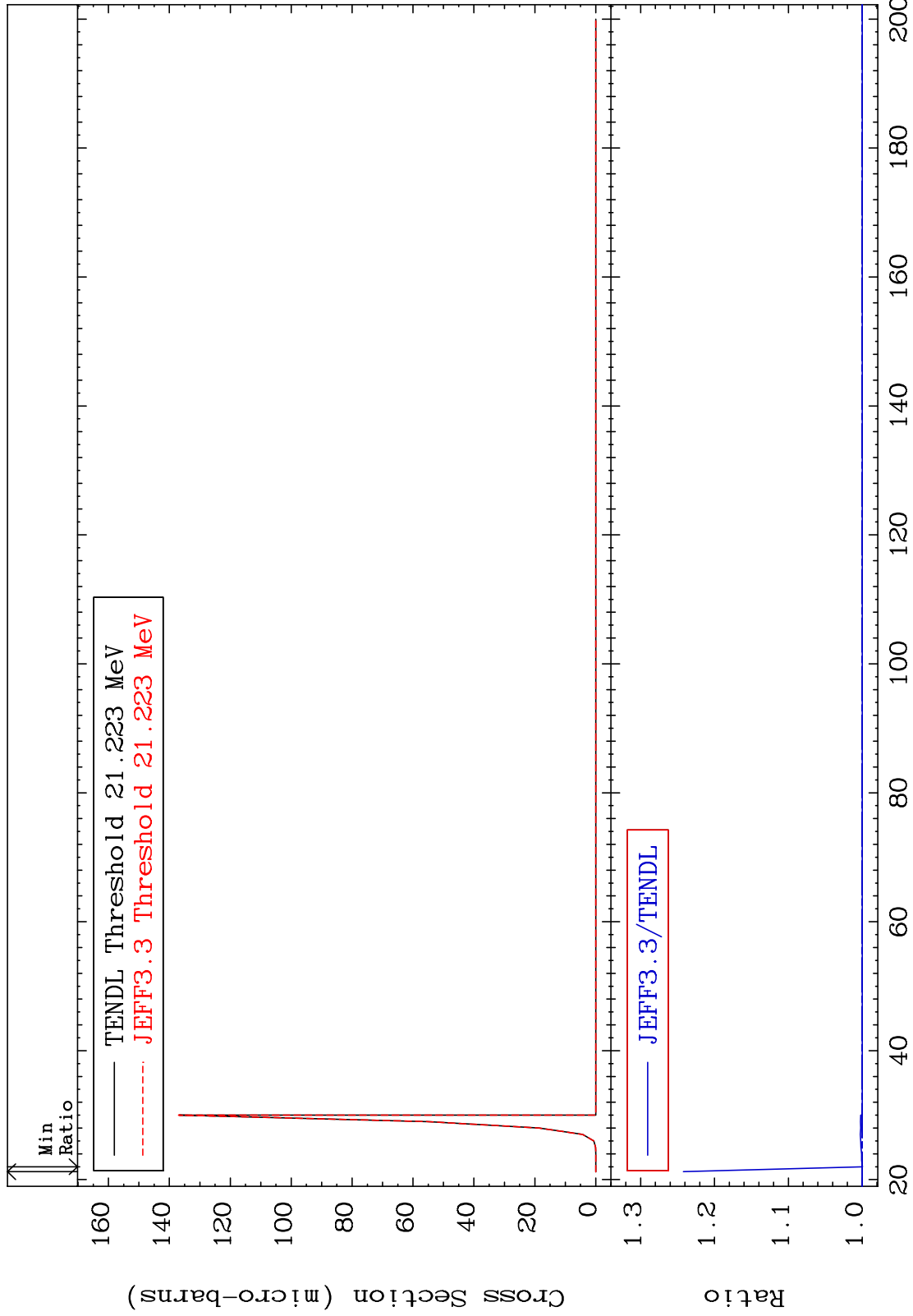
86

Incident Energy (eV)

60-Nd-145

MAT 6034

(n,3n) p:59-Pr-142g 60-Nd-145
Radionuclide Production Cross Section -0.038 To 24.20 %

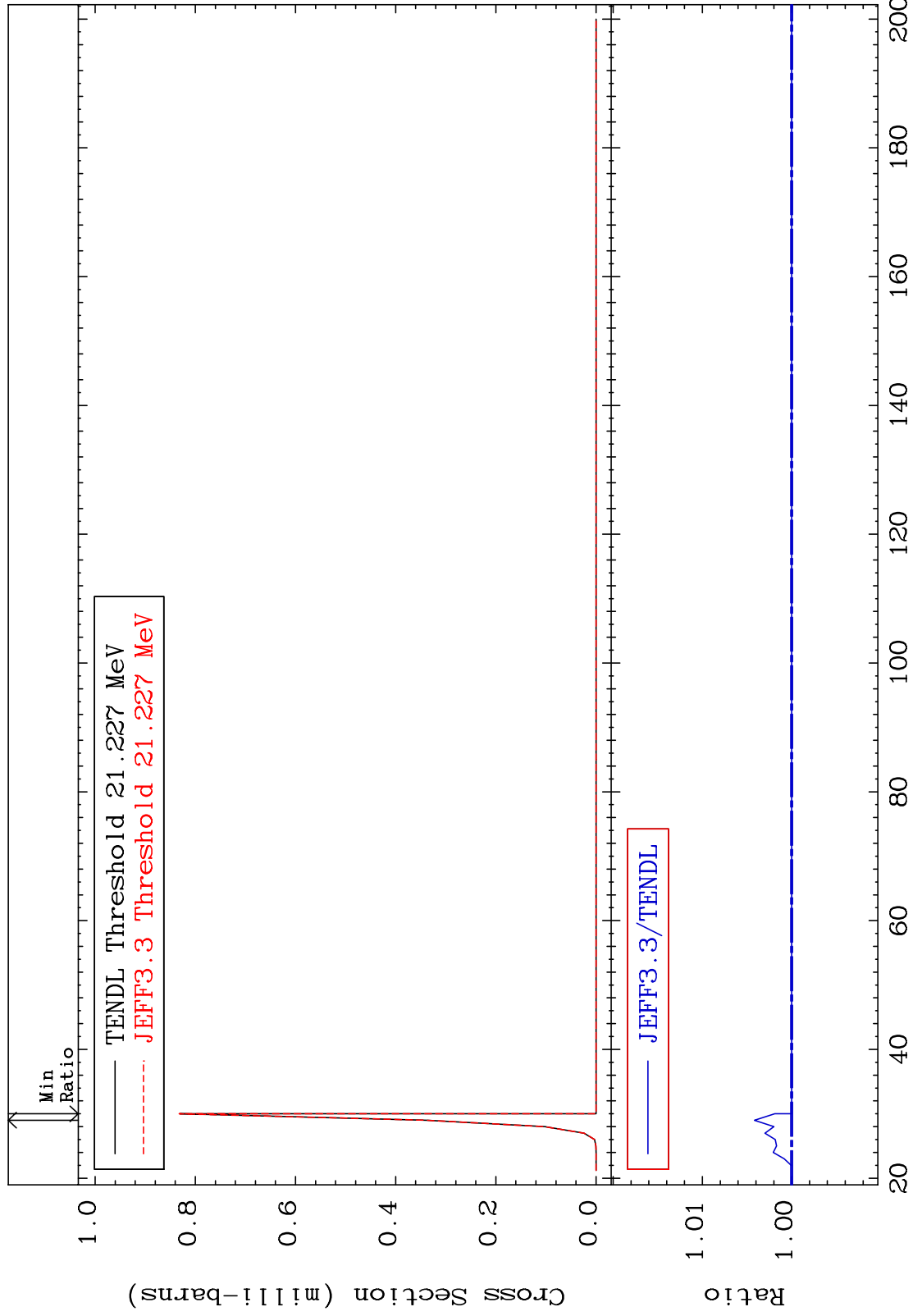


MAT 6034

(n,3n) p:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section 0.000 To 0.416 %



88

Incident Energy (MeV)

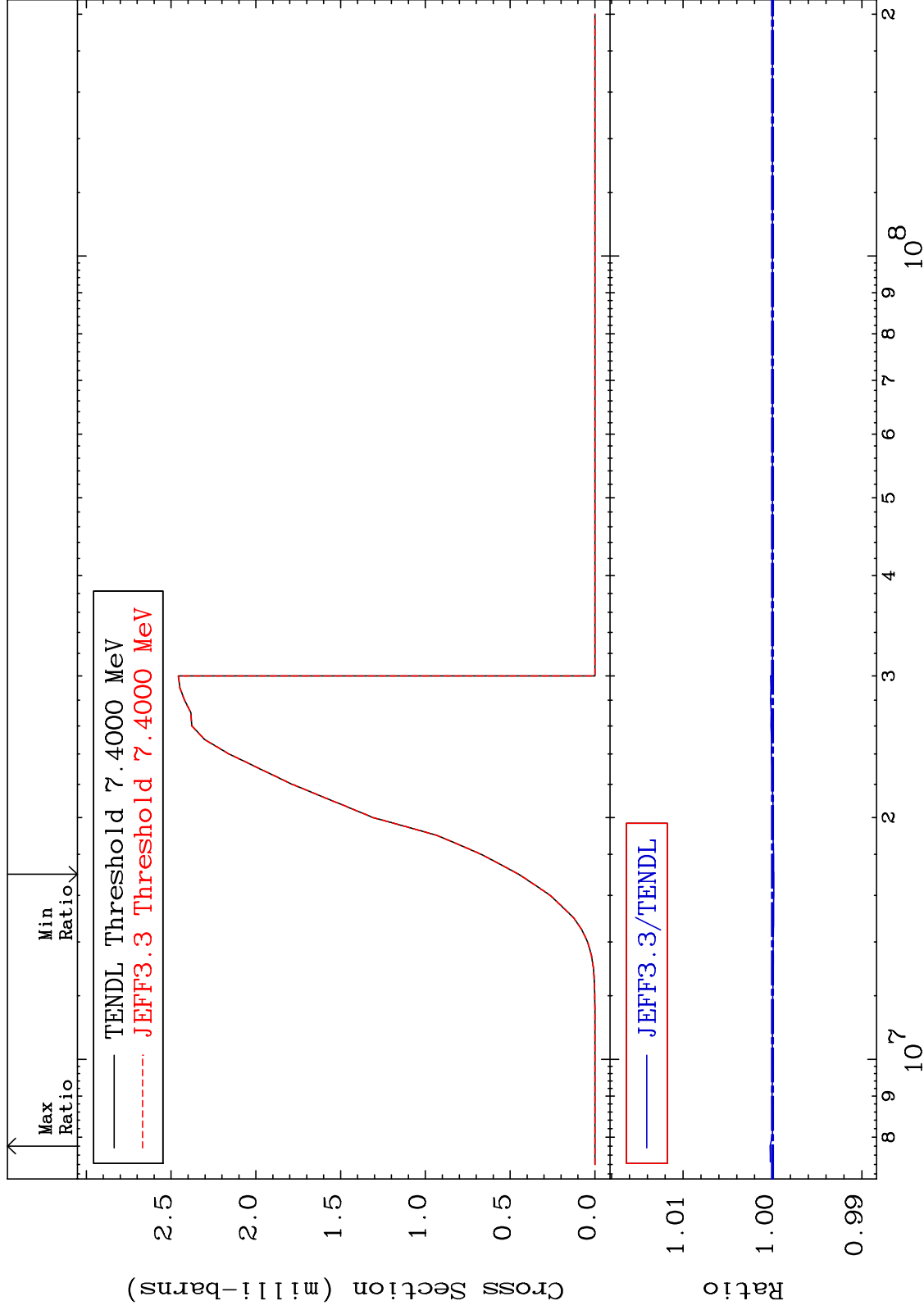
60-Nd-145

MAT 6034

(n,d):59-Pr-144g

60-Nd-145

Radionuclide Production Cross Section -0.014 To 0.027 %

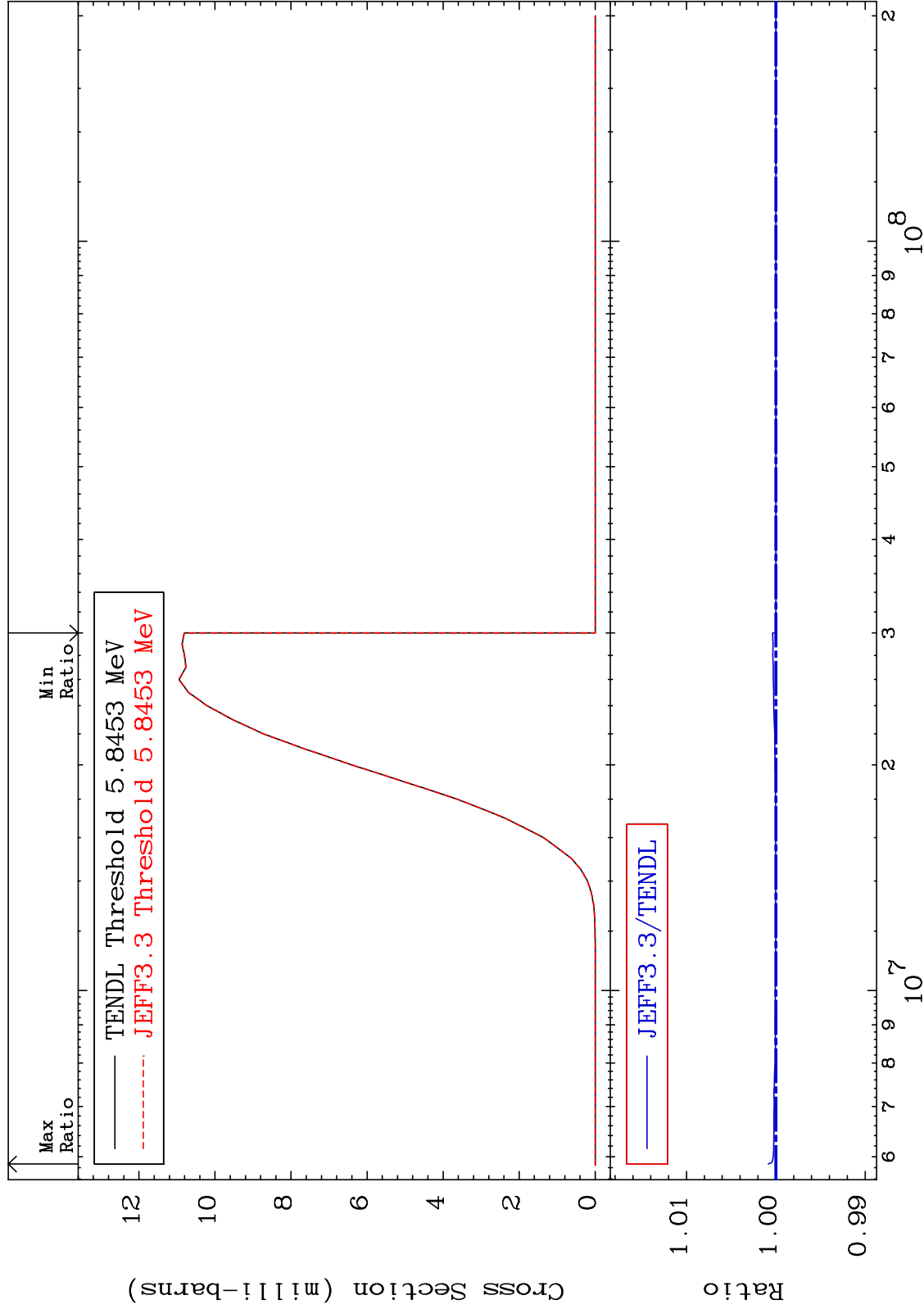


MAT 6034

(n,d):59-Pr-144m1

60-Nd-145

Radionuclide Production Cross Section 0.000 To 0.086 %



90

Incident Energy (eV)

60-Nd-145