

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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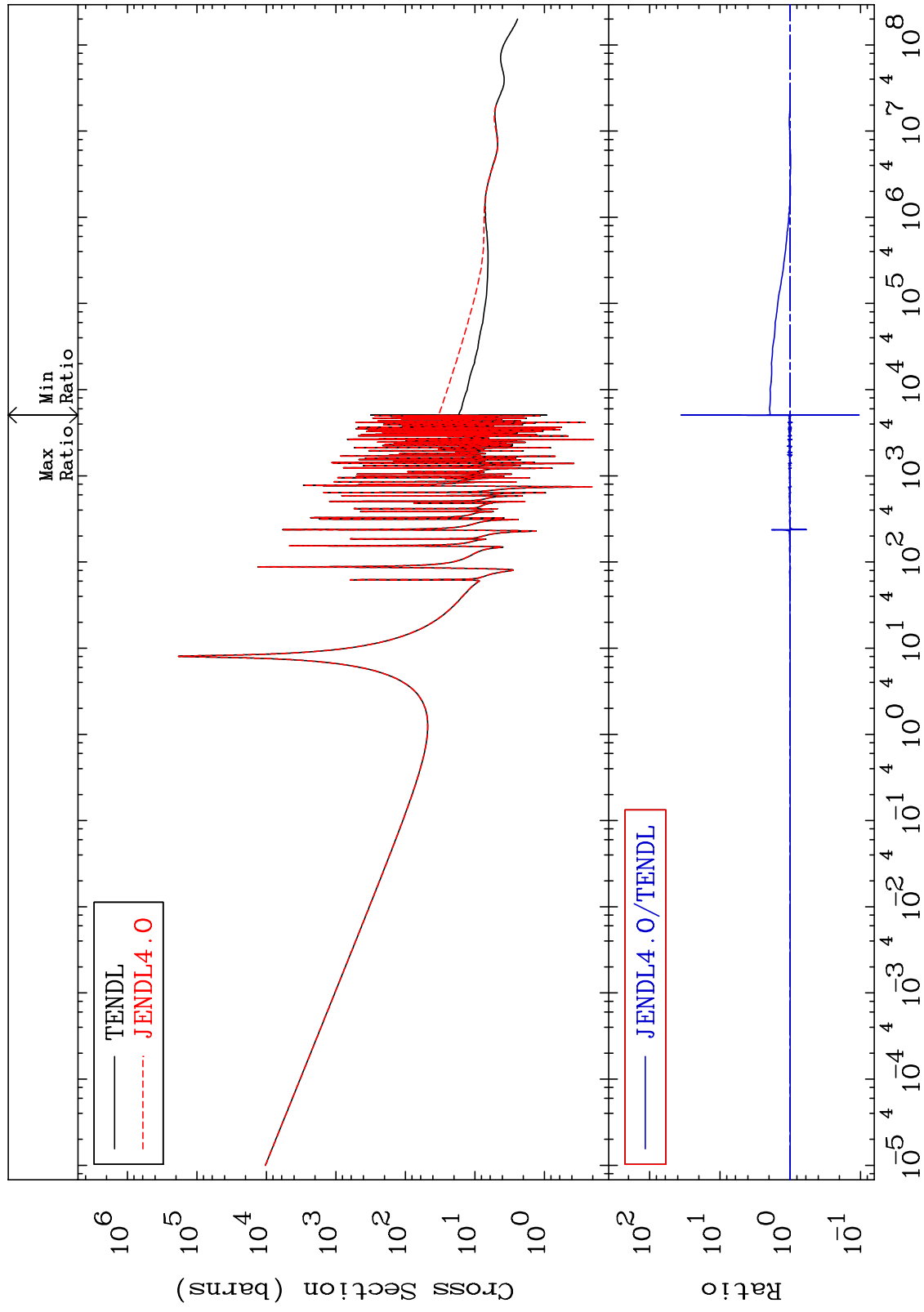
U.S.A.

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E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

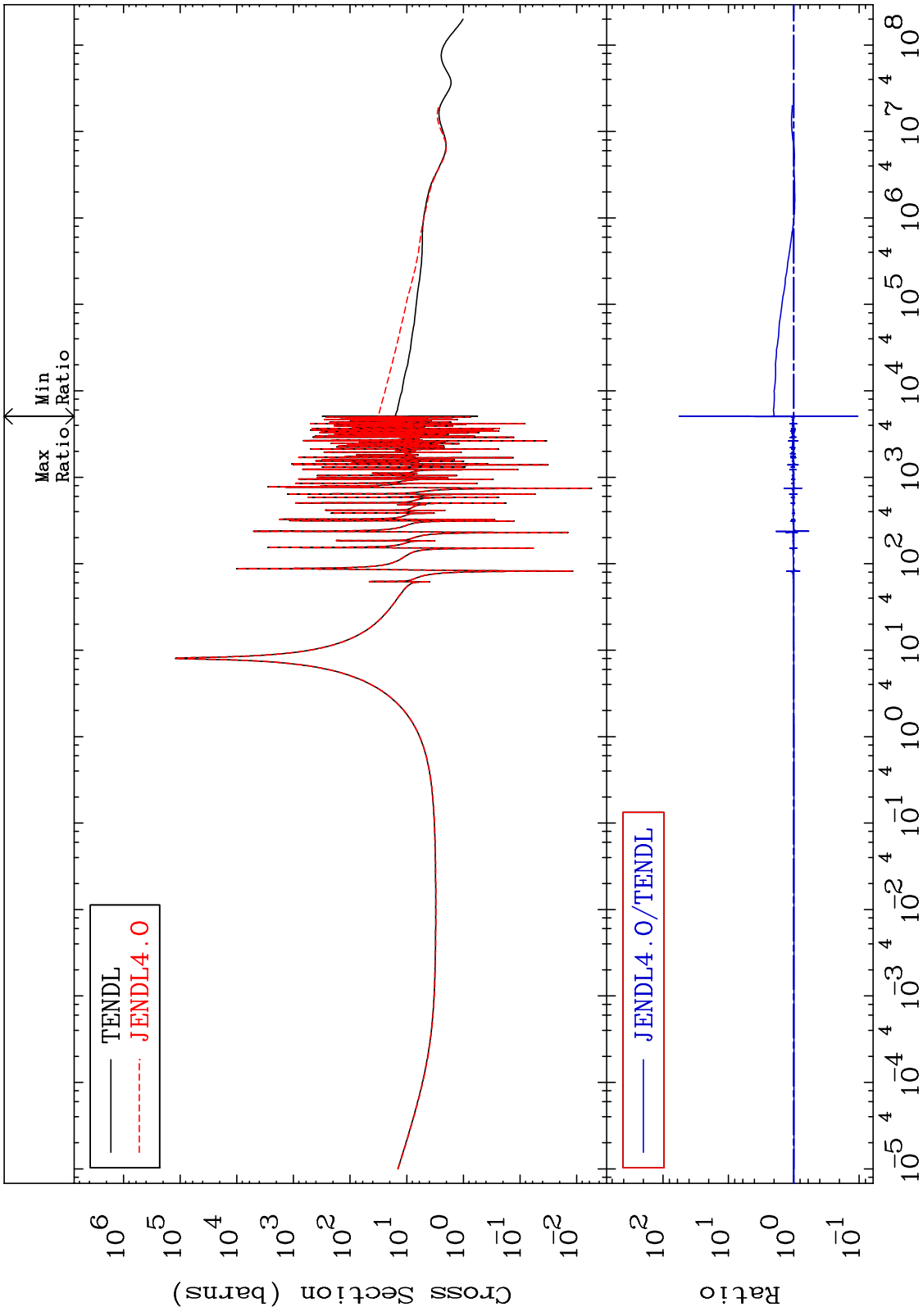
Press Mouse Button to Start

MAT 6249 Total Cross Section 62-Sm-152 -89.53 To 3500. %



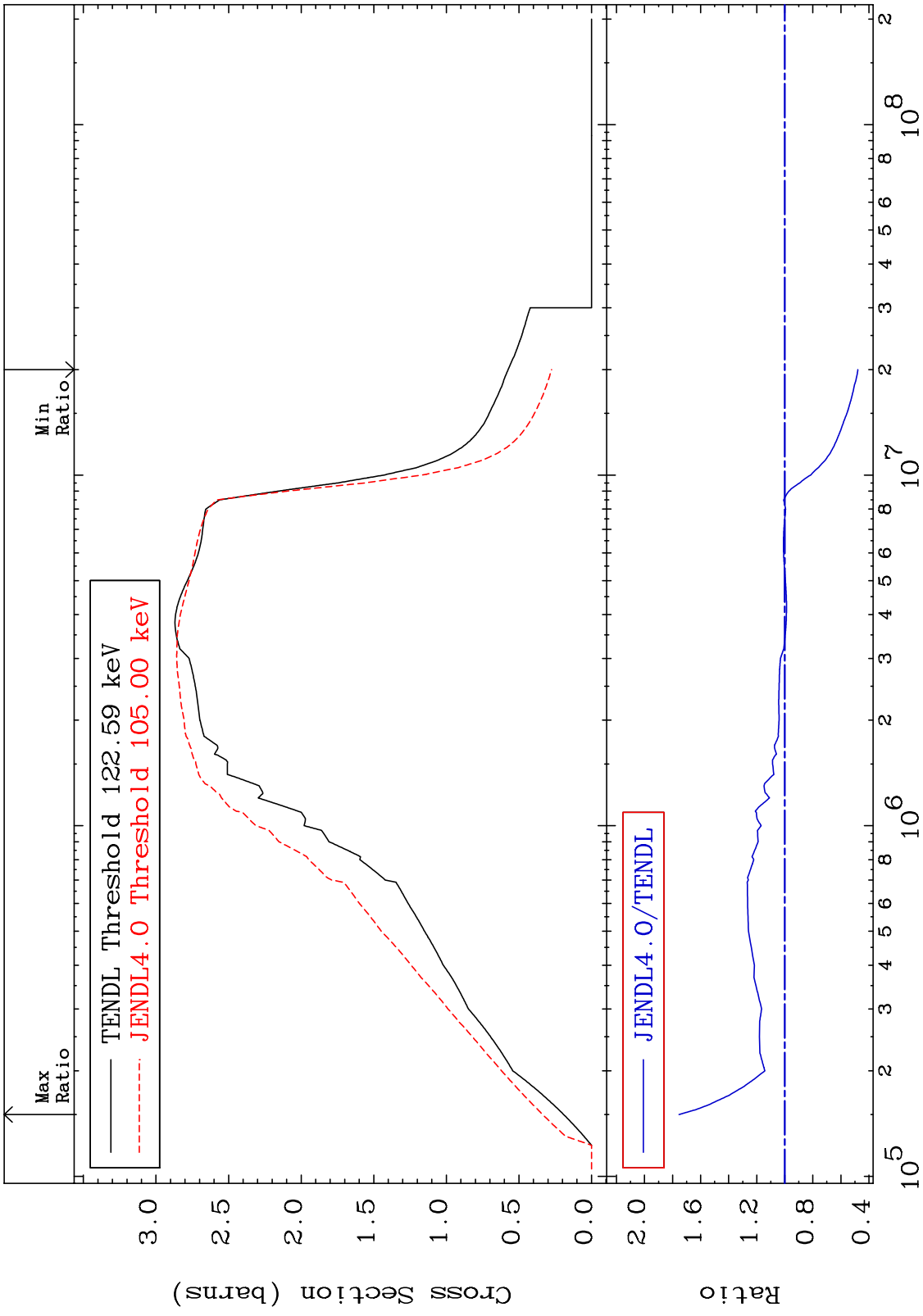
1 Incident Energy (eV) 62-Sm-152

MAT 6249 Elastic Cross Section 62-Sm-152 -89.57 To 5579. %



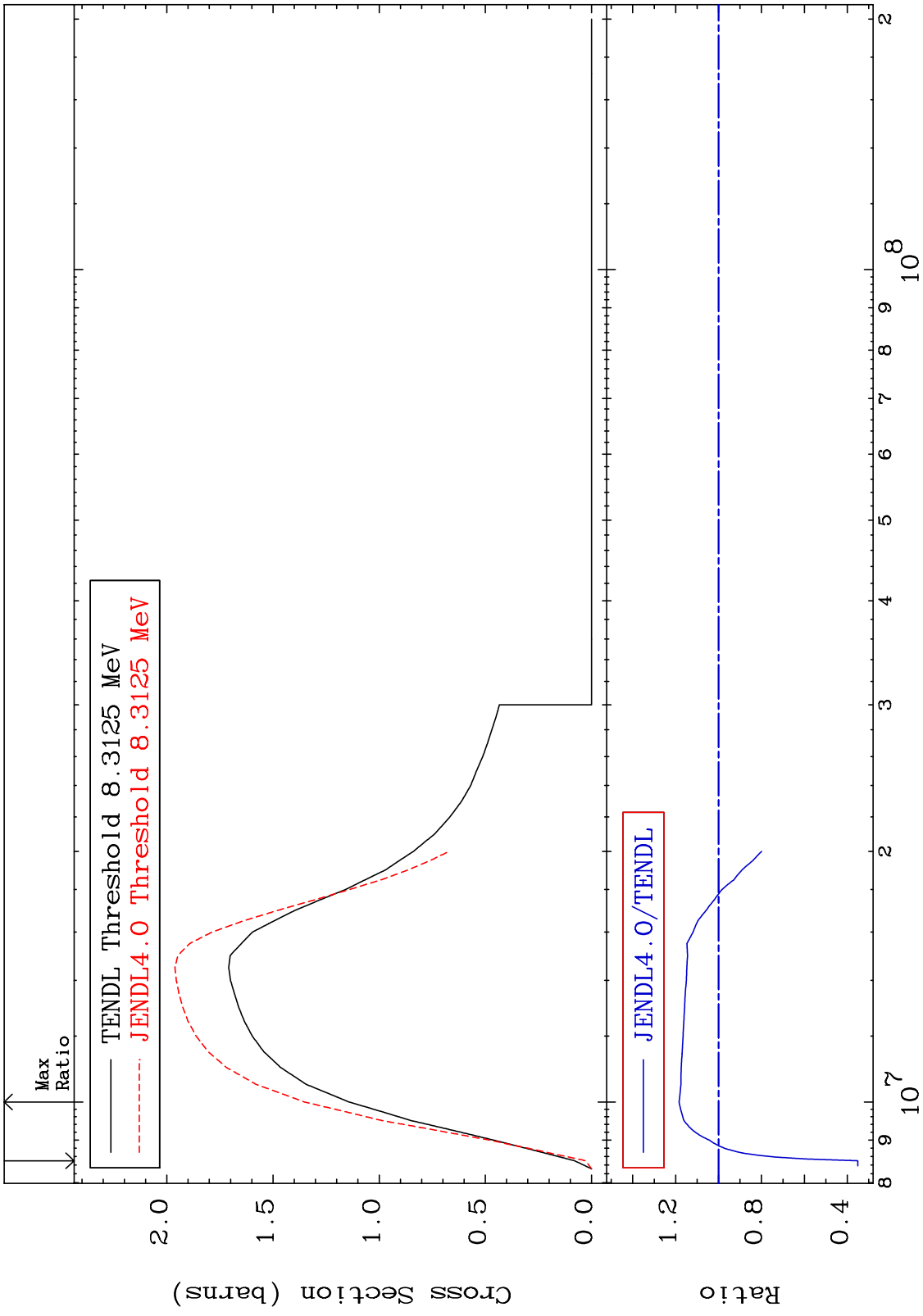
2 Incident Energy (eV) 62-Sm-152

MAT 6249 Inelastic Cross Section 62-Sm-152 -52.10 To 75.40 %



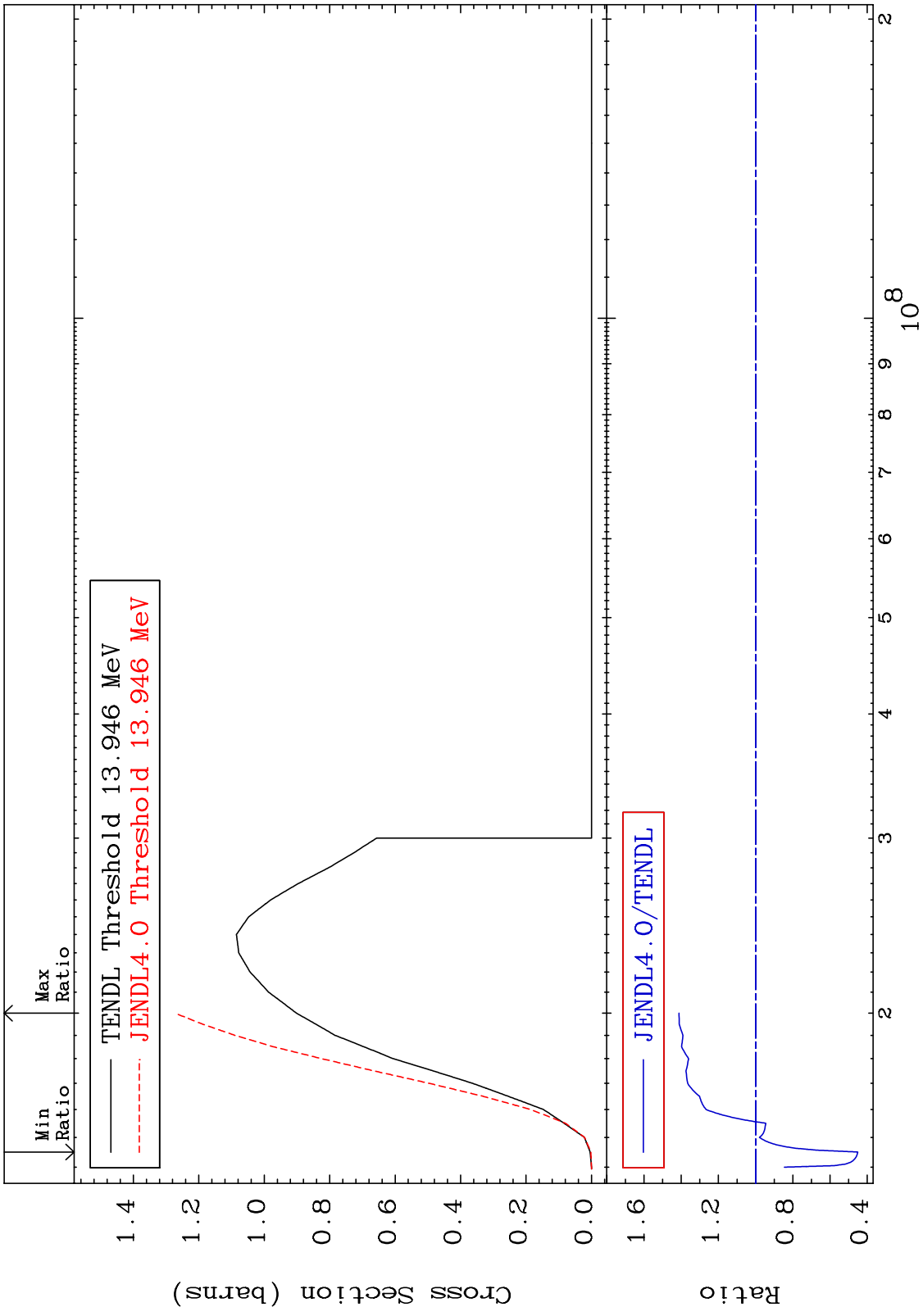
3 62-Sm-152

MAT 6249 (n,2n) Cross Section 62-Sm-152 -64.90 To 18.42 %



4 62-Sm-152 Incident Energy (eV)

MAT 6249 (n,3n) Cross Section 62-Sm-152  
-54.92 To 41.16 %



62-Sm-152

Incident Energy (eV)

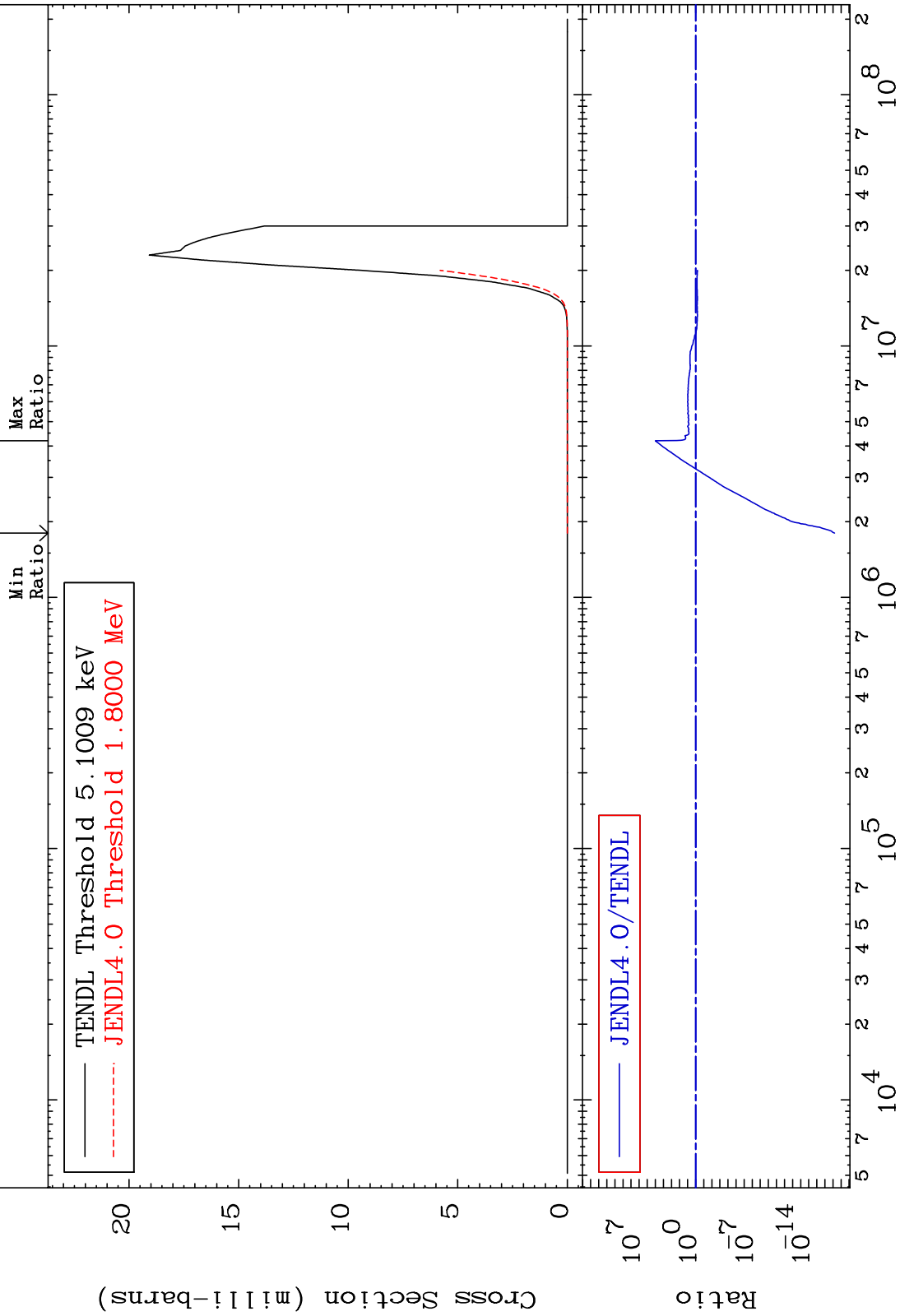
MAT 6249

(n, n')  $\alpha$

62-Sm-152

-100.0 To 9999. %

Cross Section

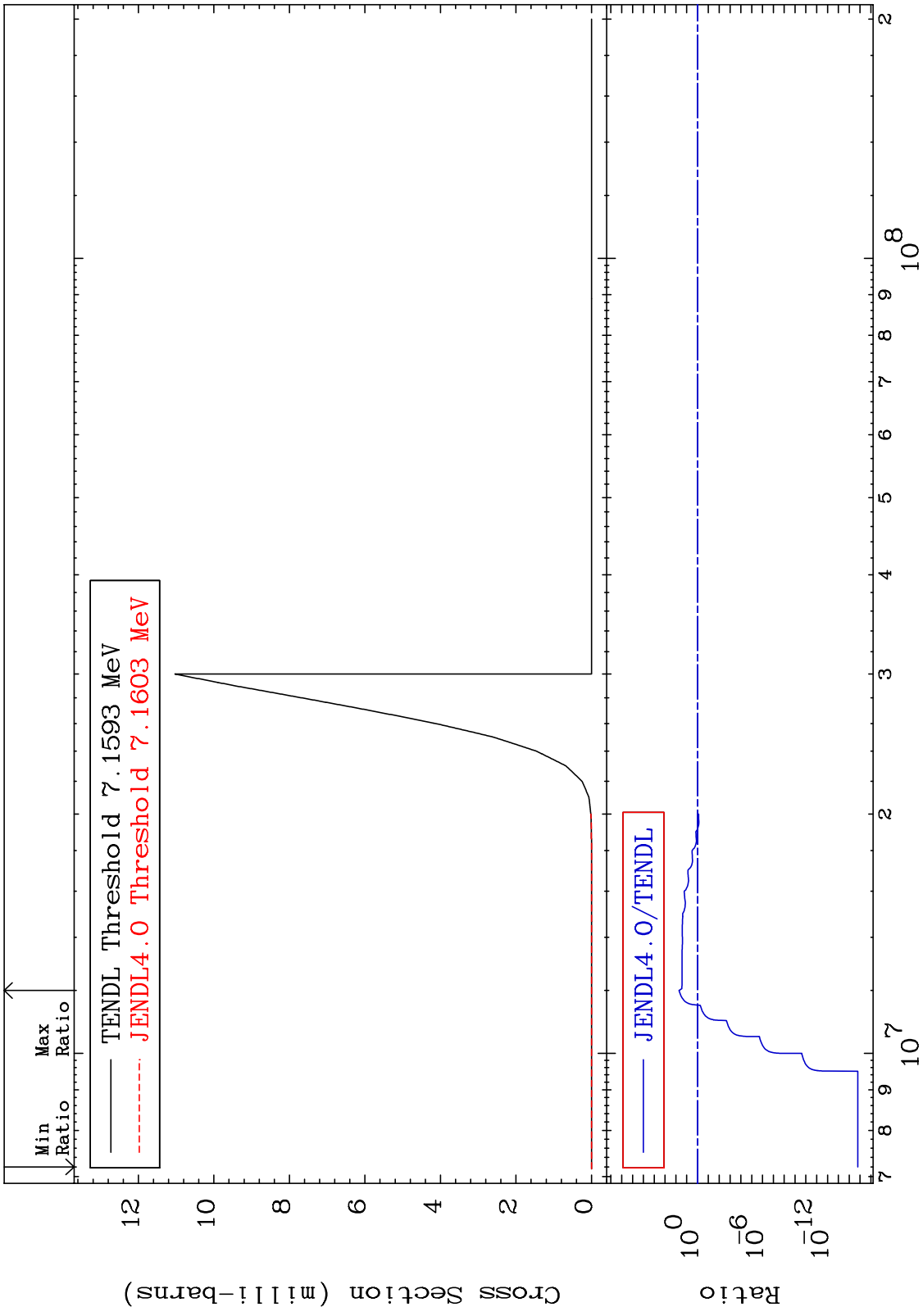


6

Incident Energy (eV)

62-Sm-152

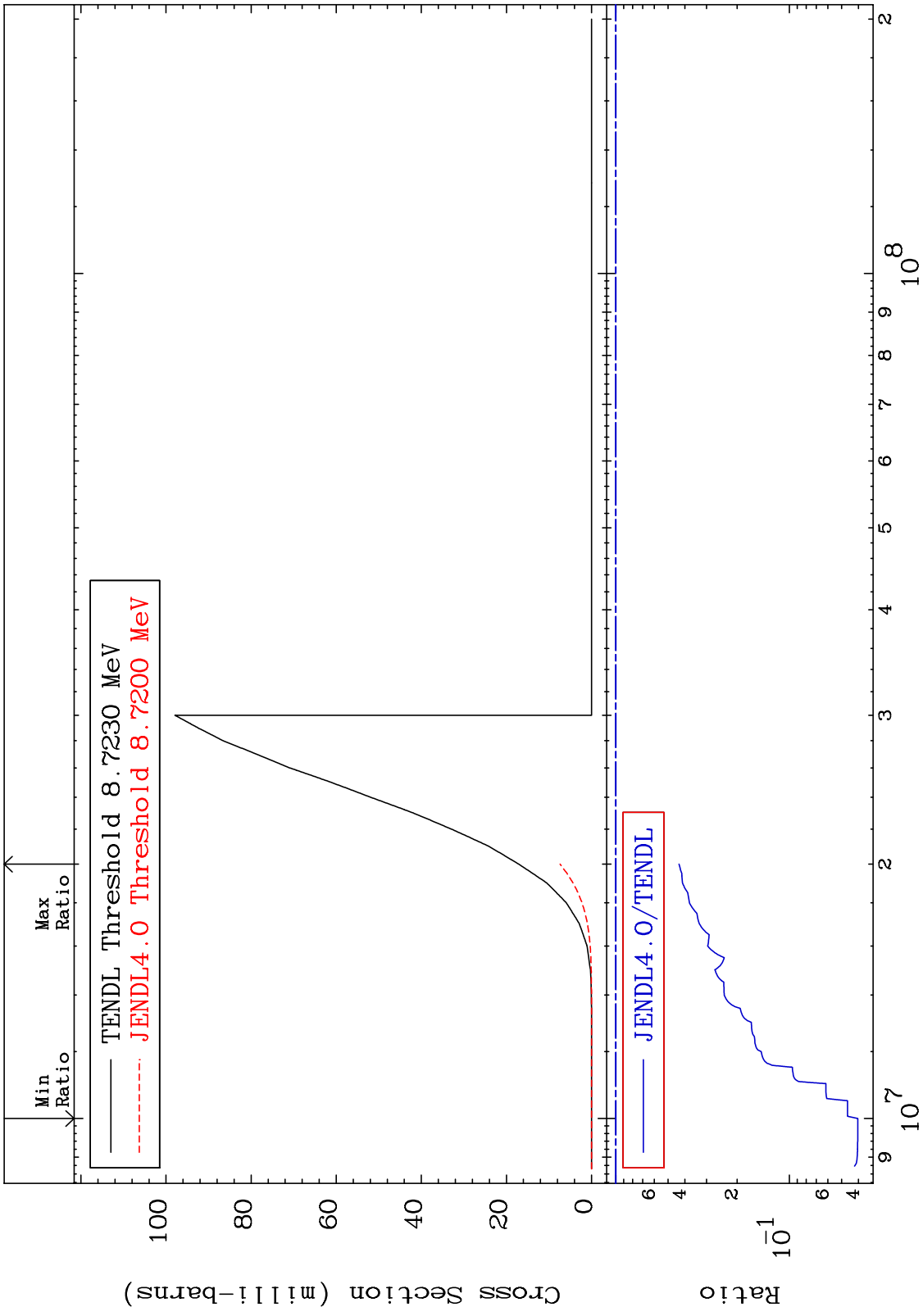
MAT 6249 (n,2n)  $\alpha$  62-Sm-152  
Cross Section -100.0 To 4984. %



7 8 9 10<sup>7</sup> 10<sup>8</sup> 2  
62-Sm-152

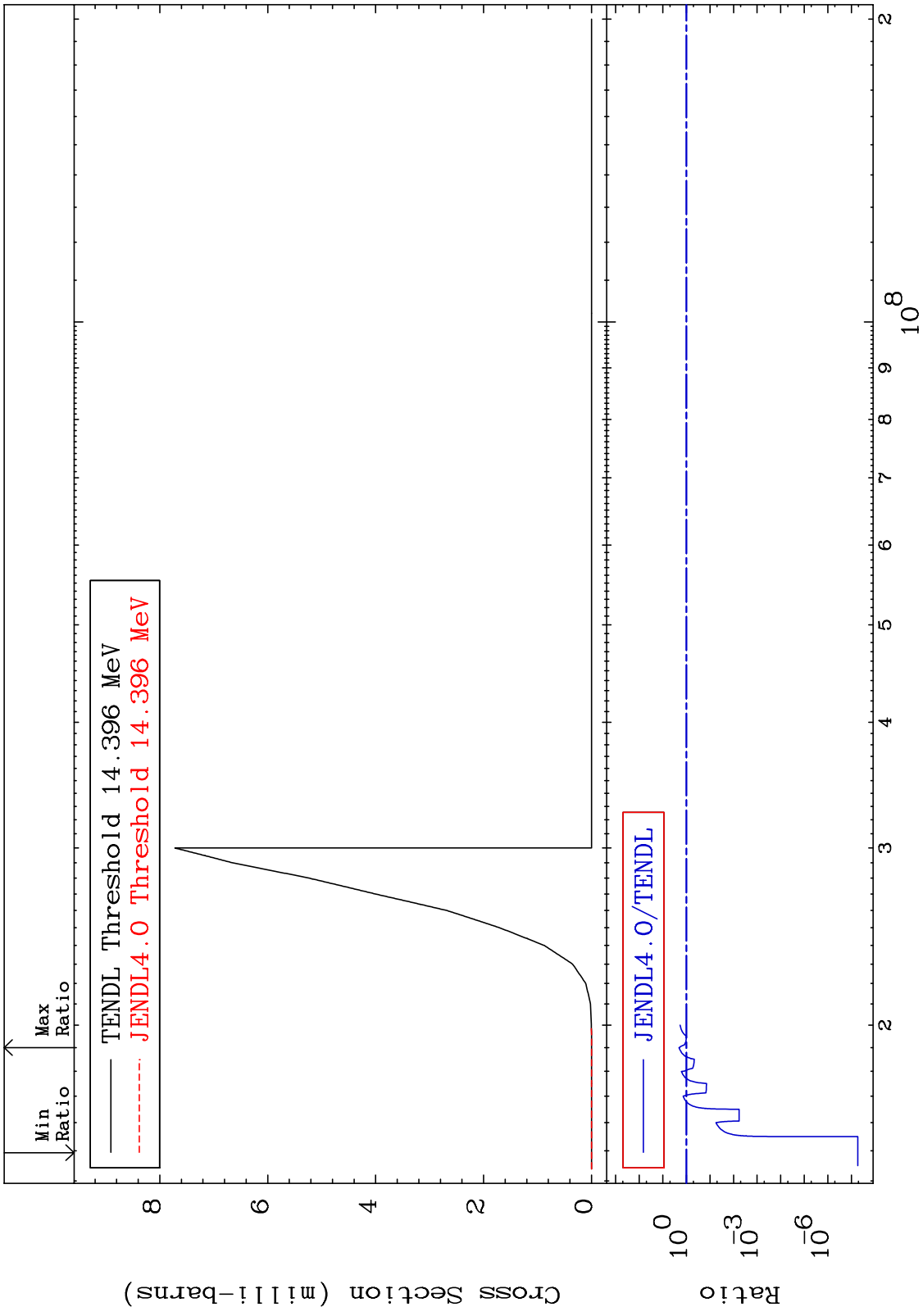


MAT 6249 (n,n') p 62-Sm-152  
Cross Section -95.97 To -56.80%

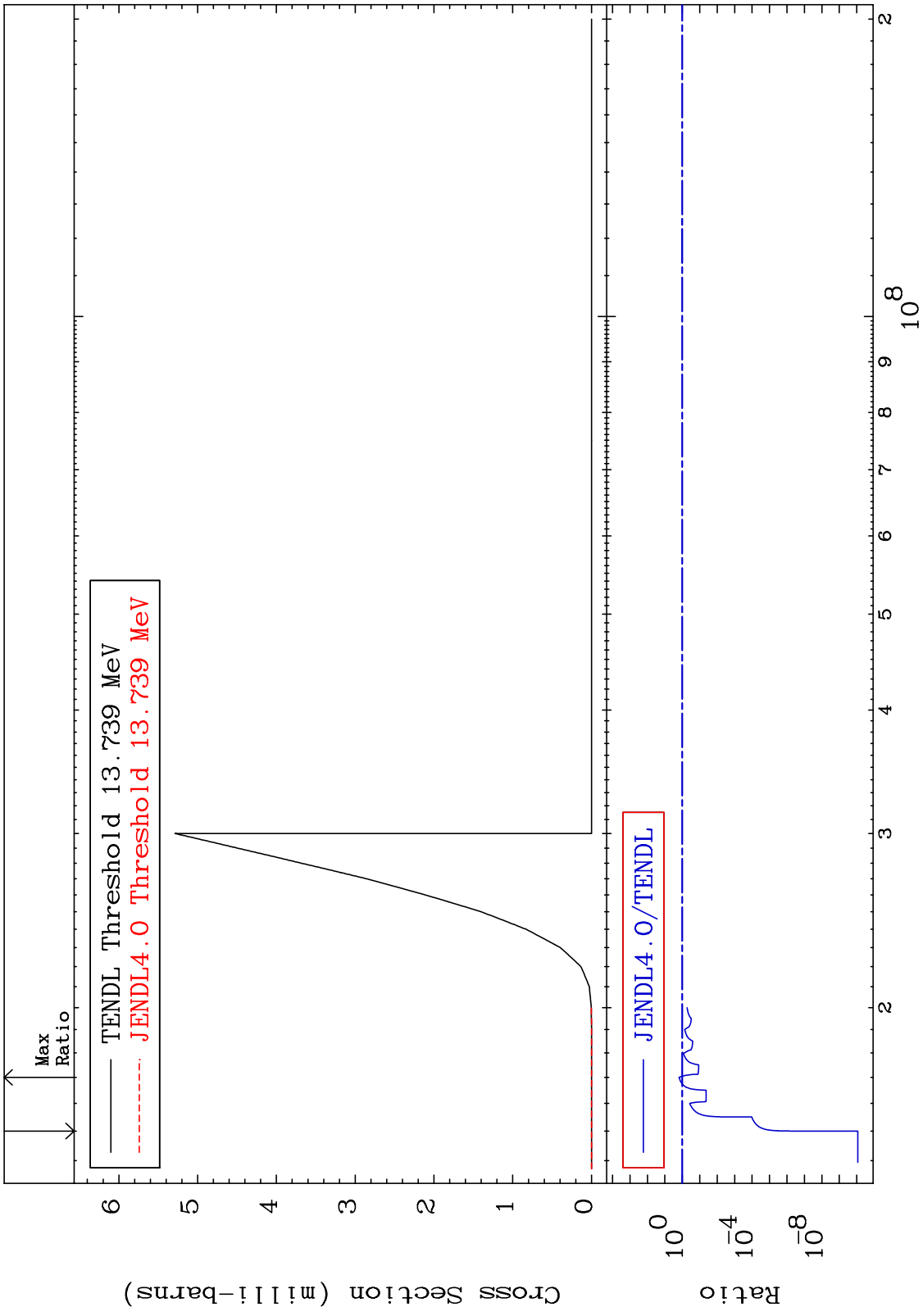


8 9 10<sup>7</sup> 2 3 4 5 6 7 8 9 10<sup>8</sup> 2 62-Sm-152

MAT 6249 (n,n') d 62-Sm-152  
 Cross Section -100.0 To 104.9 %

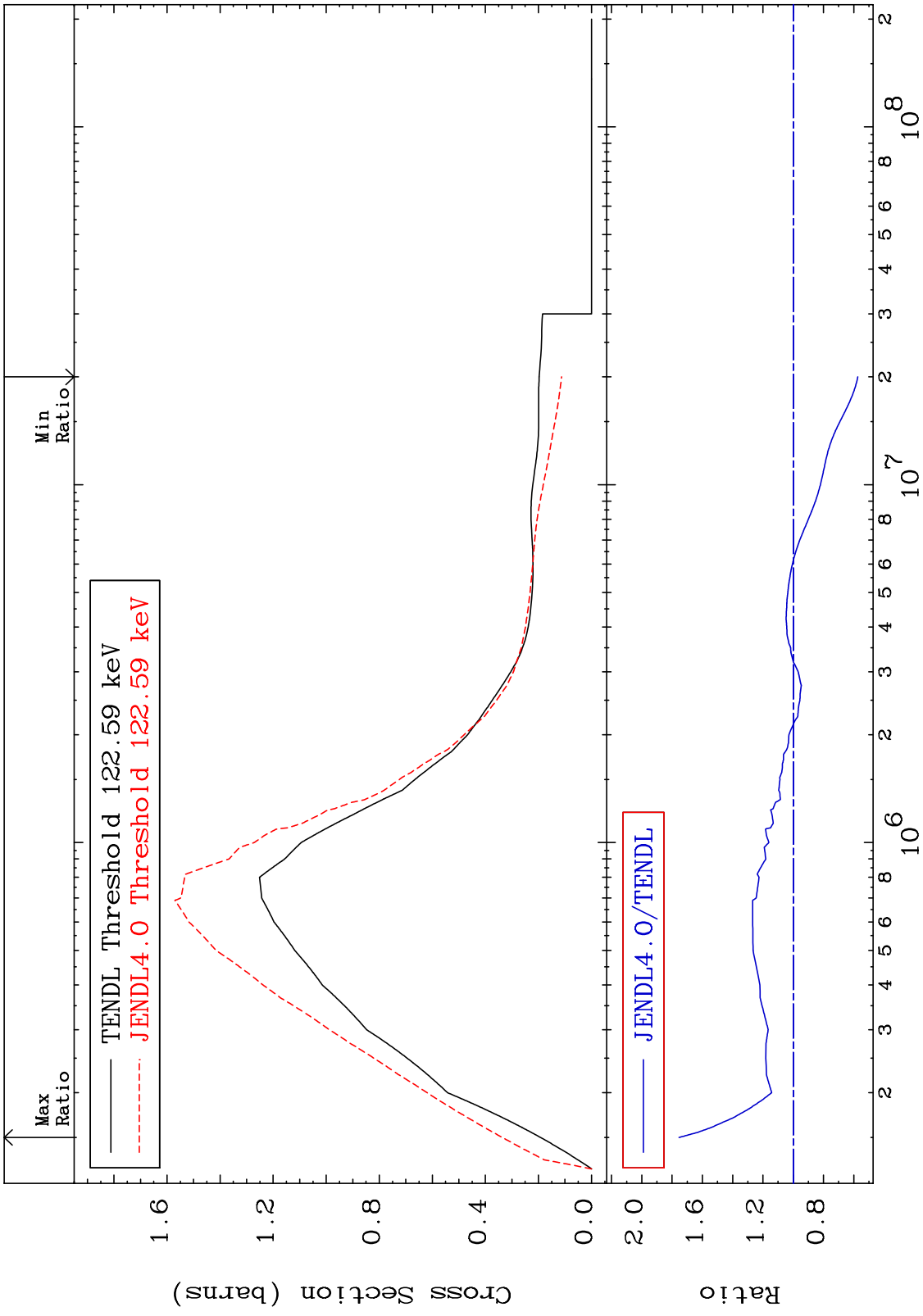


MAT 6249 (n,n') t 62-Sm-152  
 Cross Section -100.0 To 53.70 %

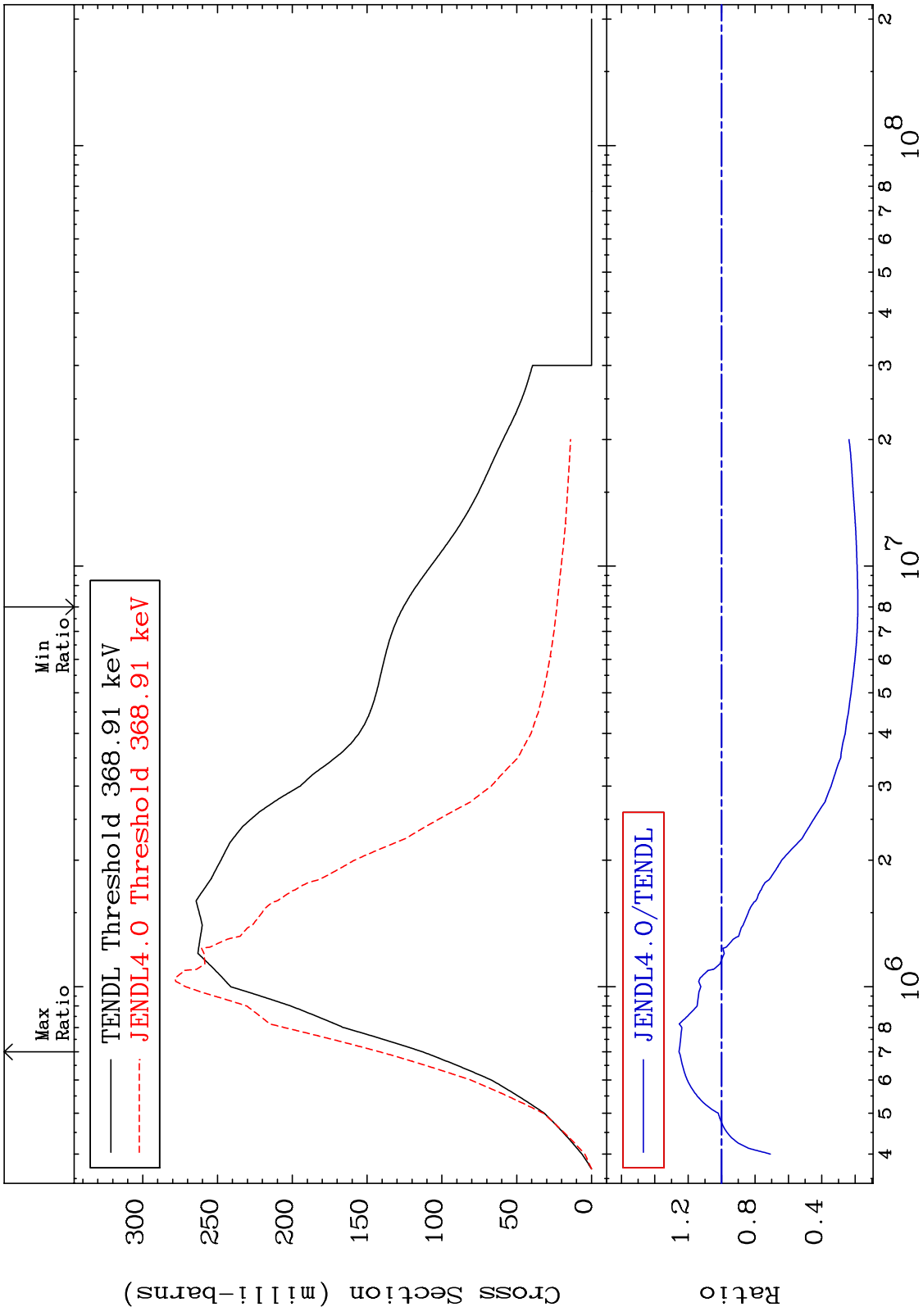


10 Incident Energy (eV) 62-Sm-152

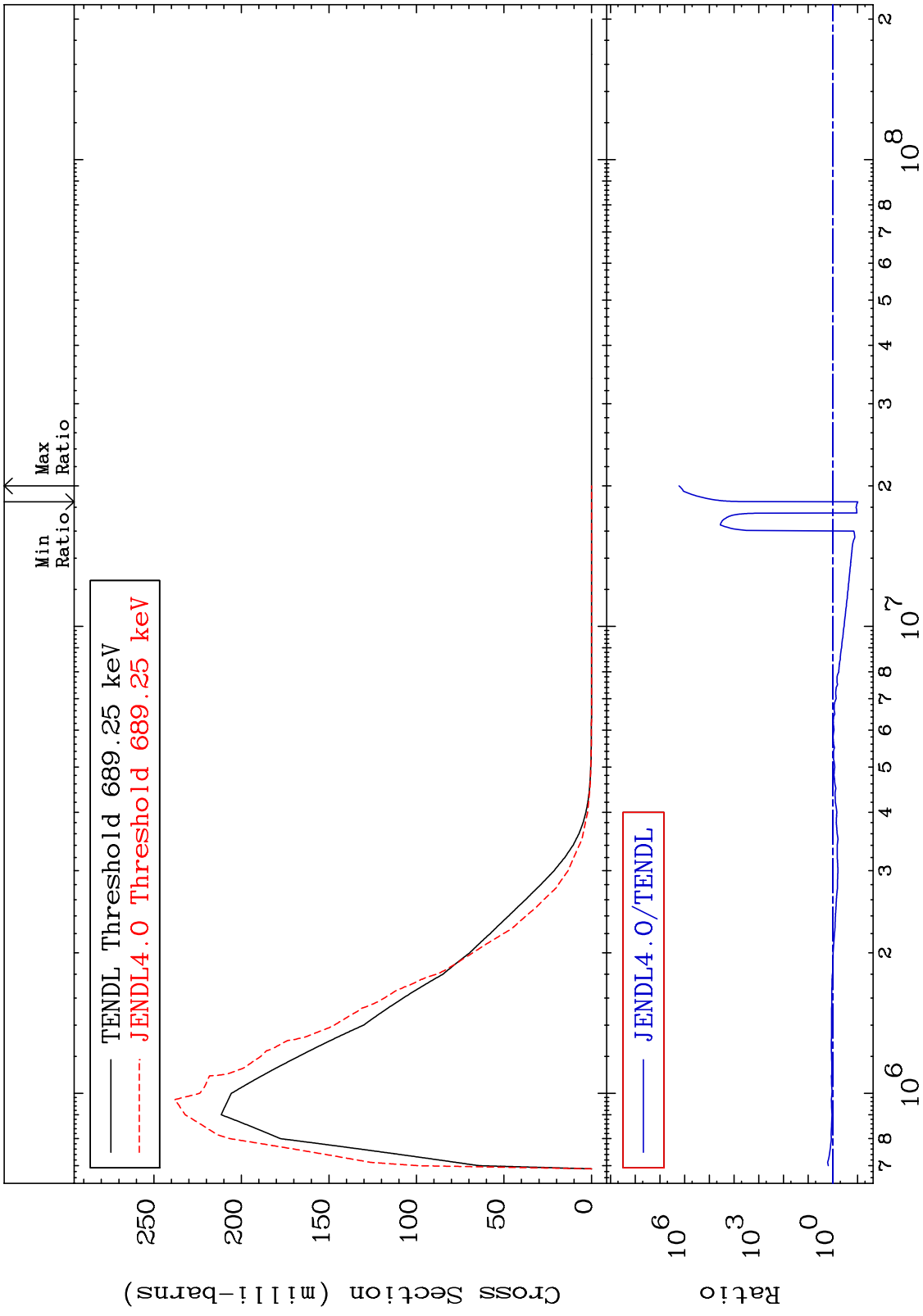
MAT 6249      MT= 51 (n,n') Level      62-Sm-152  
 Cross Section      -42.67 To 75.39 %



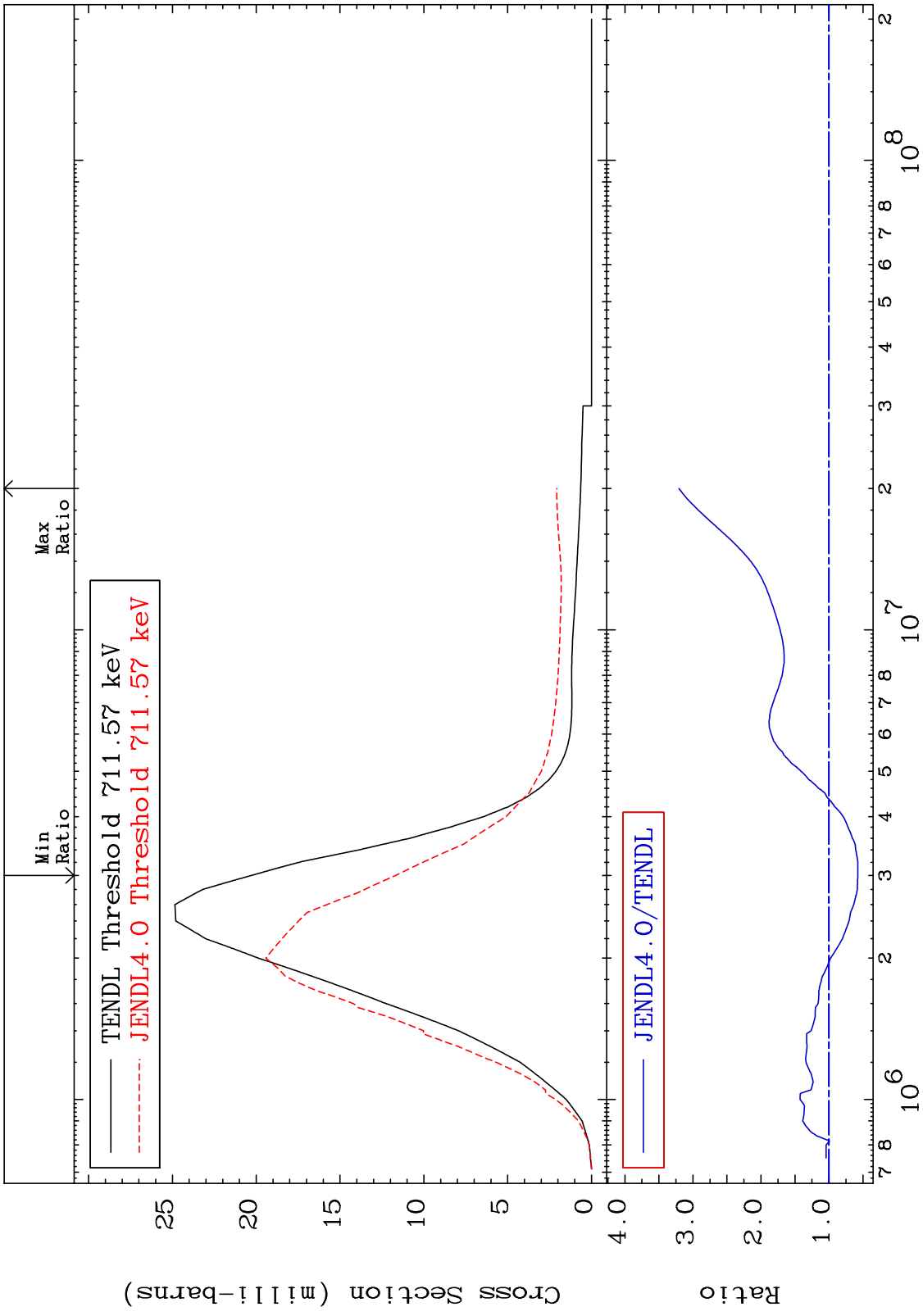
MAT 6249      MT= 52 (n,n') Level Cross Section      62-Sm-152  
 -81.56 To 25.49 %



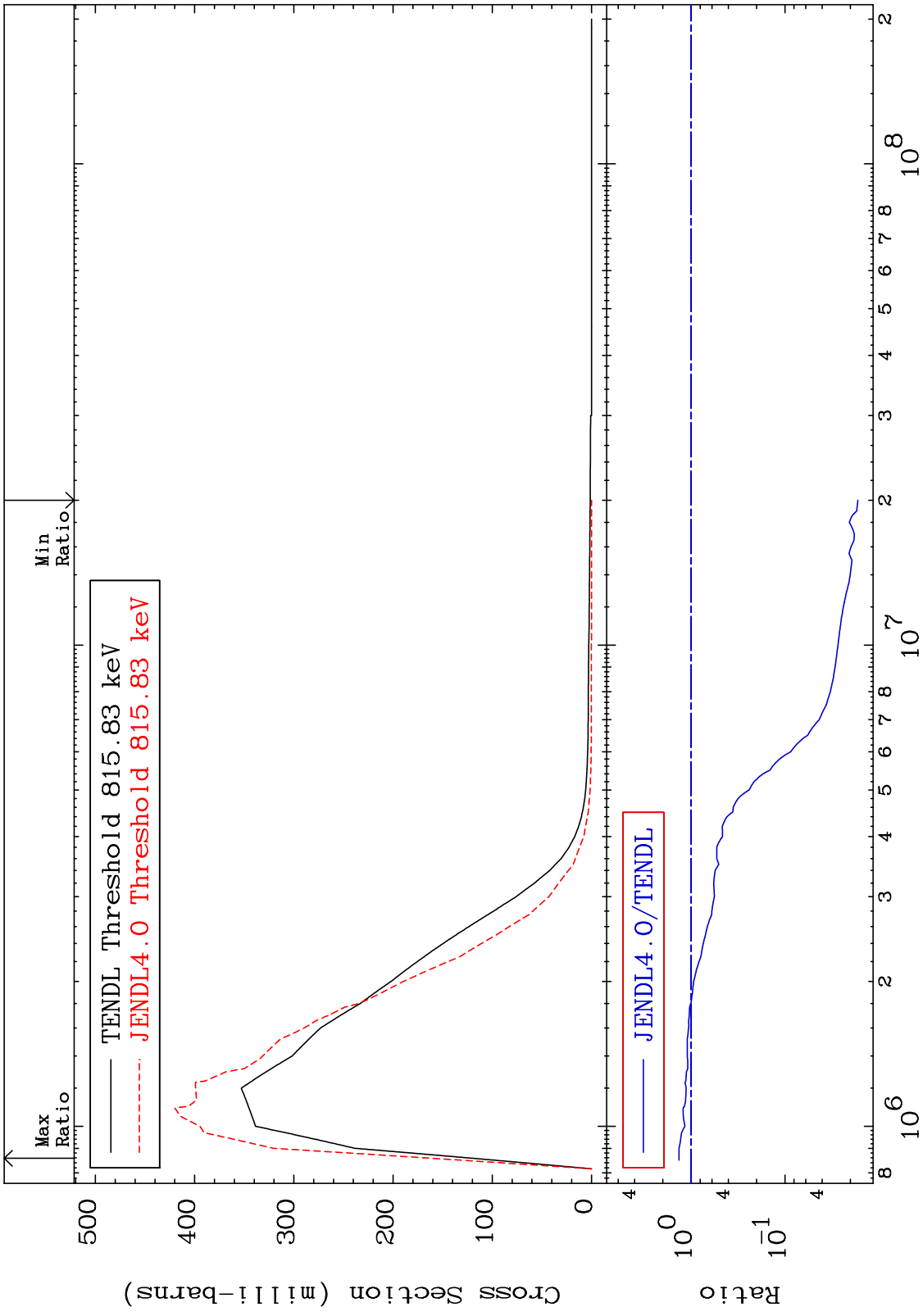
MAT 6249 MT= 53 (n,n') Level Cross Section 62-Sm-152 -90.24 To 9999. %



MAT 6249      MT= 54 (n,n') Level      62-Sm-152  
 Cross Section      -42.43 To 220.4 %

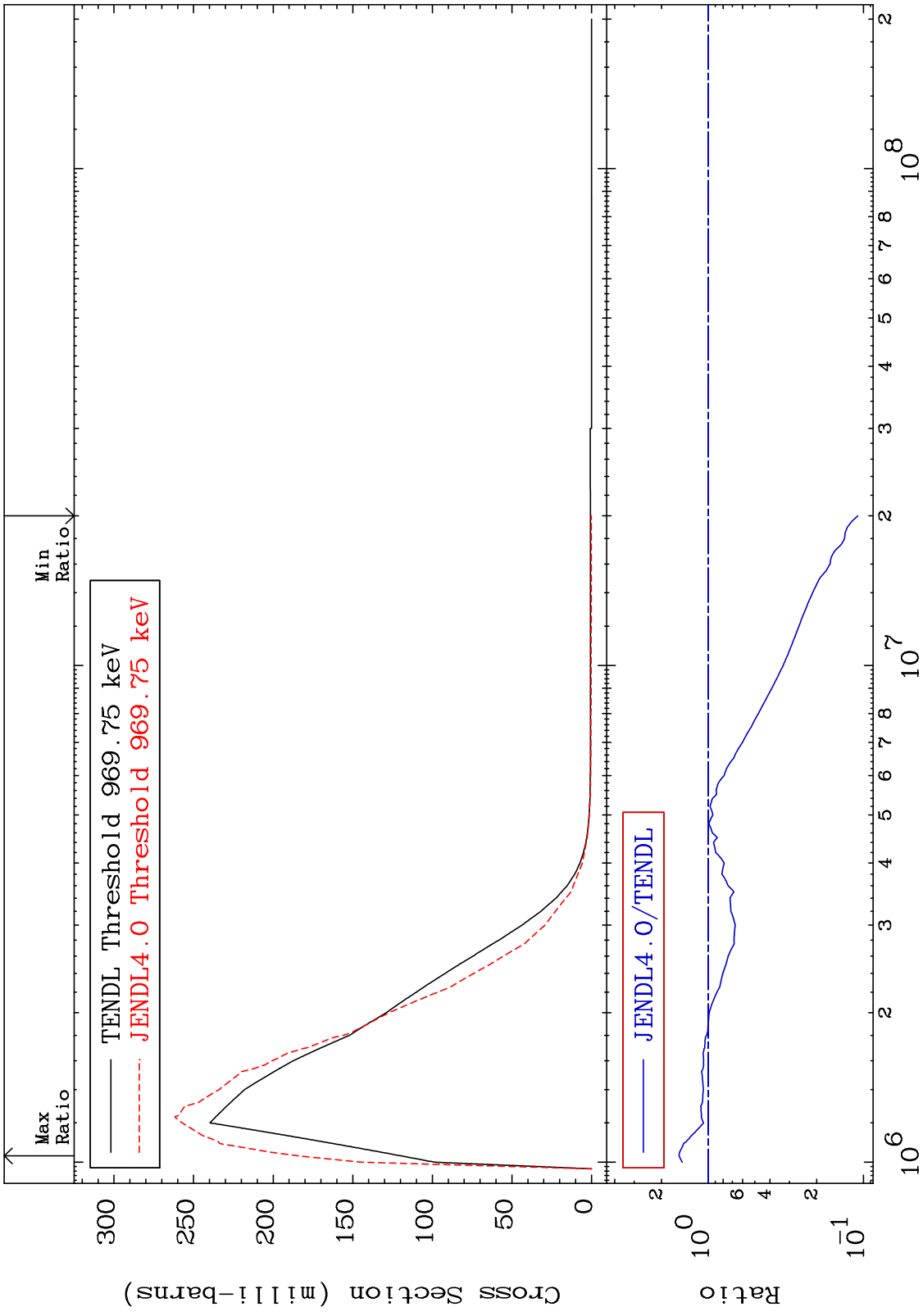


MAT 6249 MT= 55 (n,n') Level Cross Section 62-Sm-152  
 -98.33 To 34.47 %



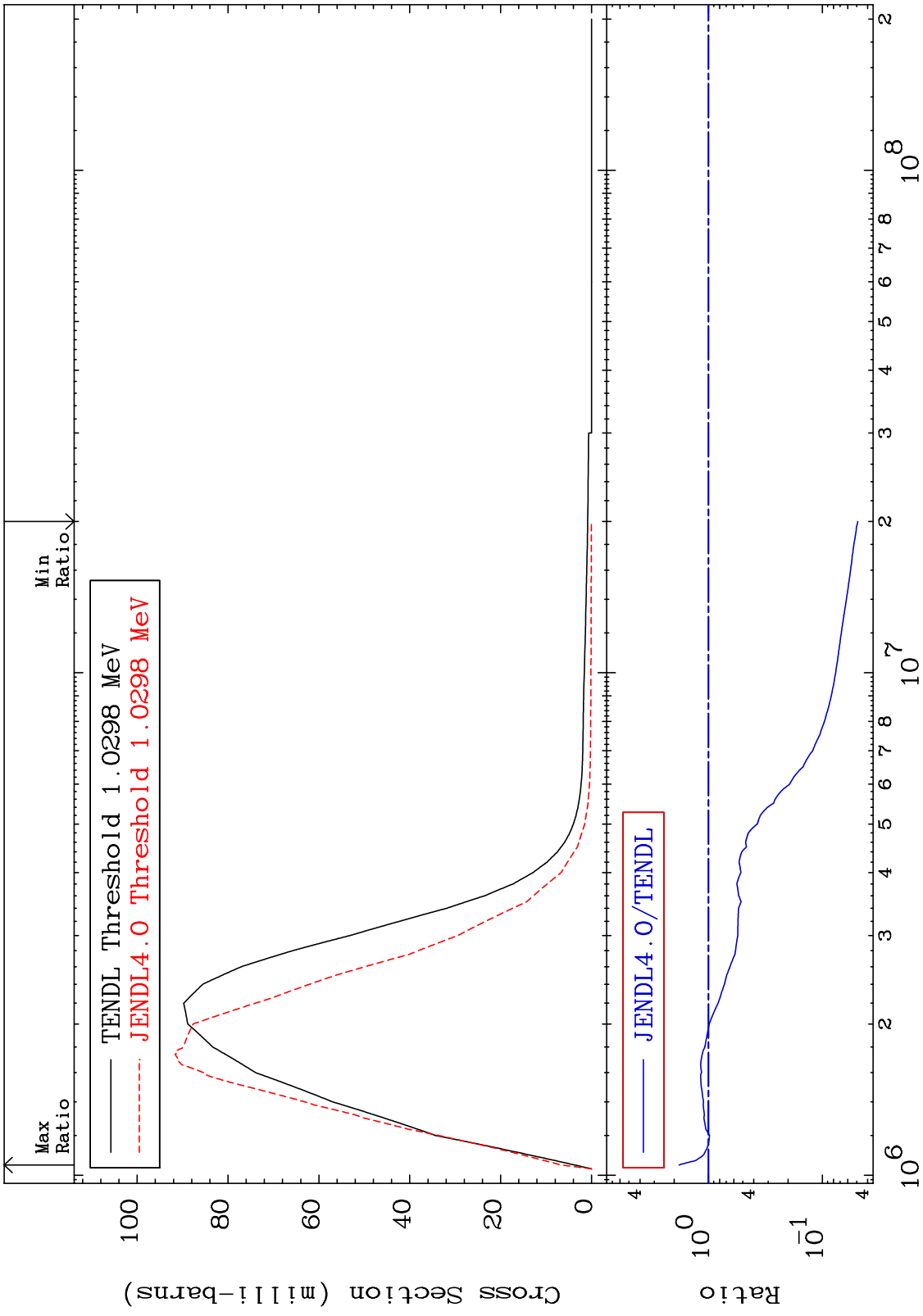


MAT 6249      MT= 56 (n,n') Level Cross Section      62-Sm-152  
-89.13 To 53.99 %

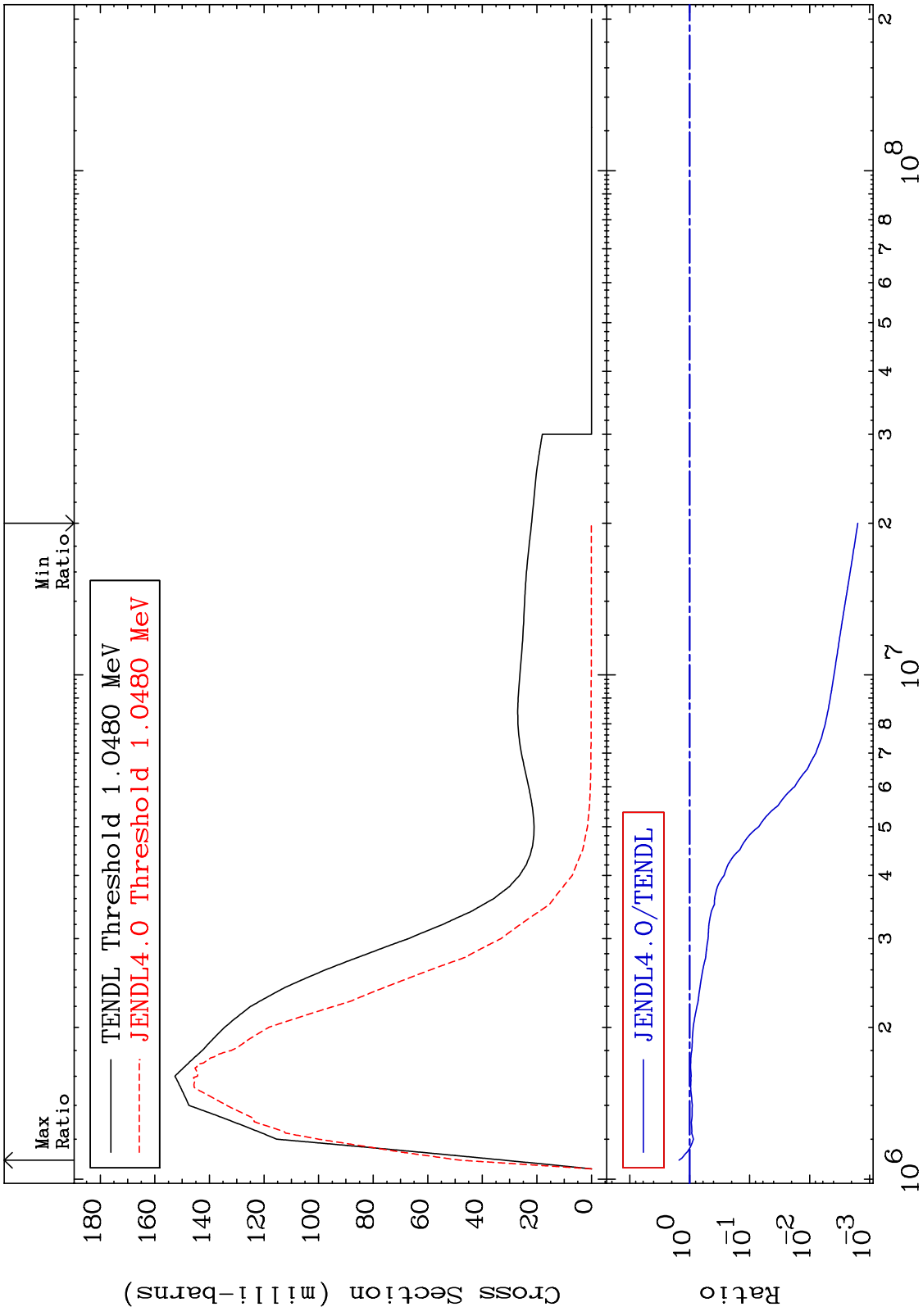


16      62-Sm-152

MAT 6249 MT= 57 (n,n') Level Cross Section 62-Sm-152 -95.12 To 81.55 %

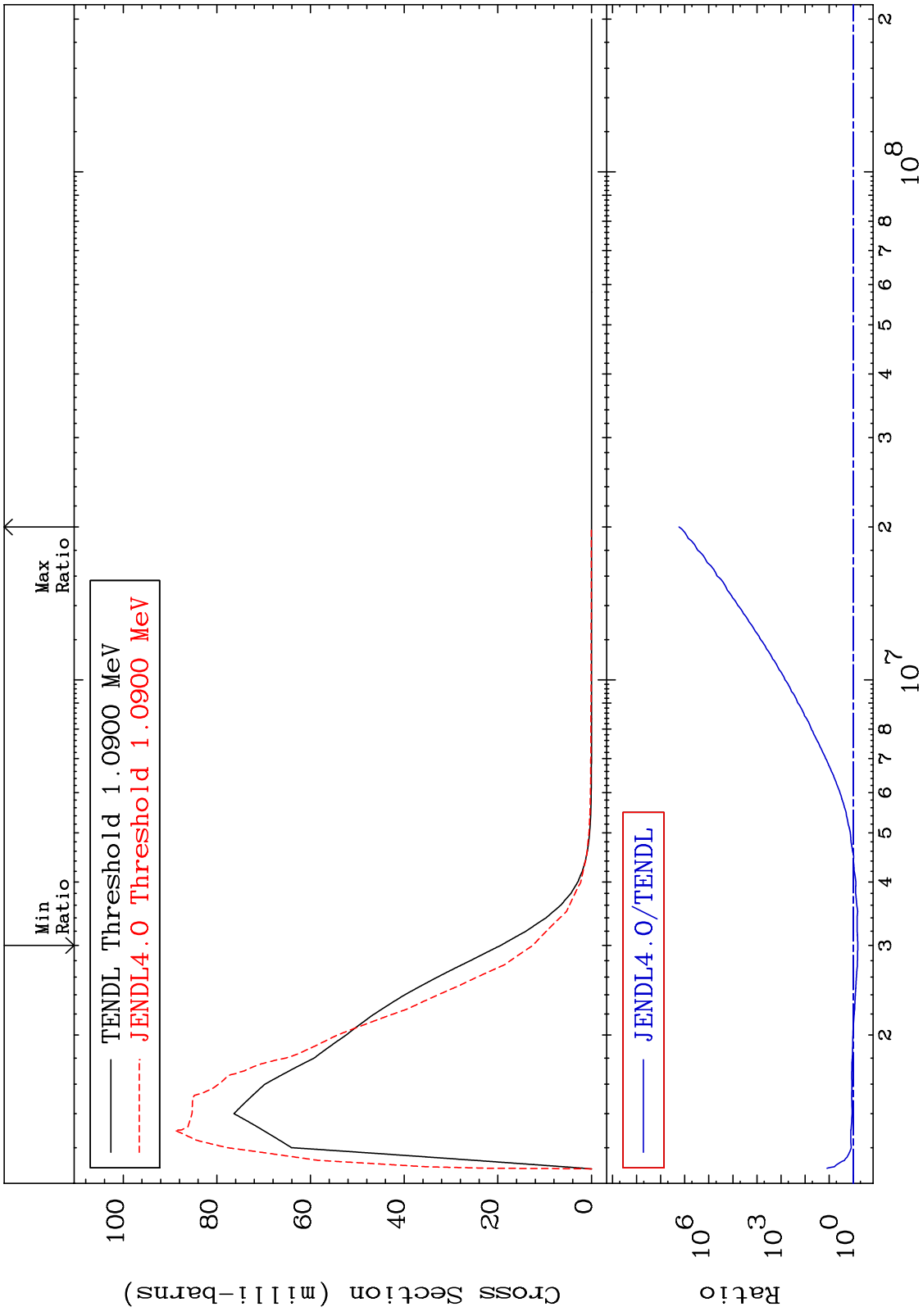


MAT 6249 MT= 58 (n,n') Level Cross Section 62-Sm-152 -99.84 To 50.84 %

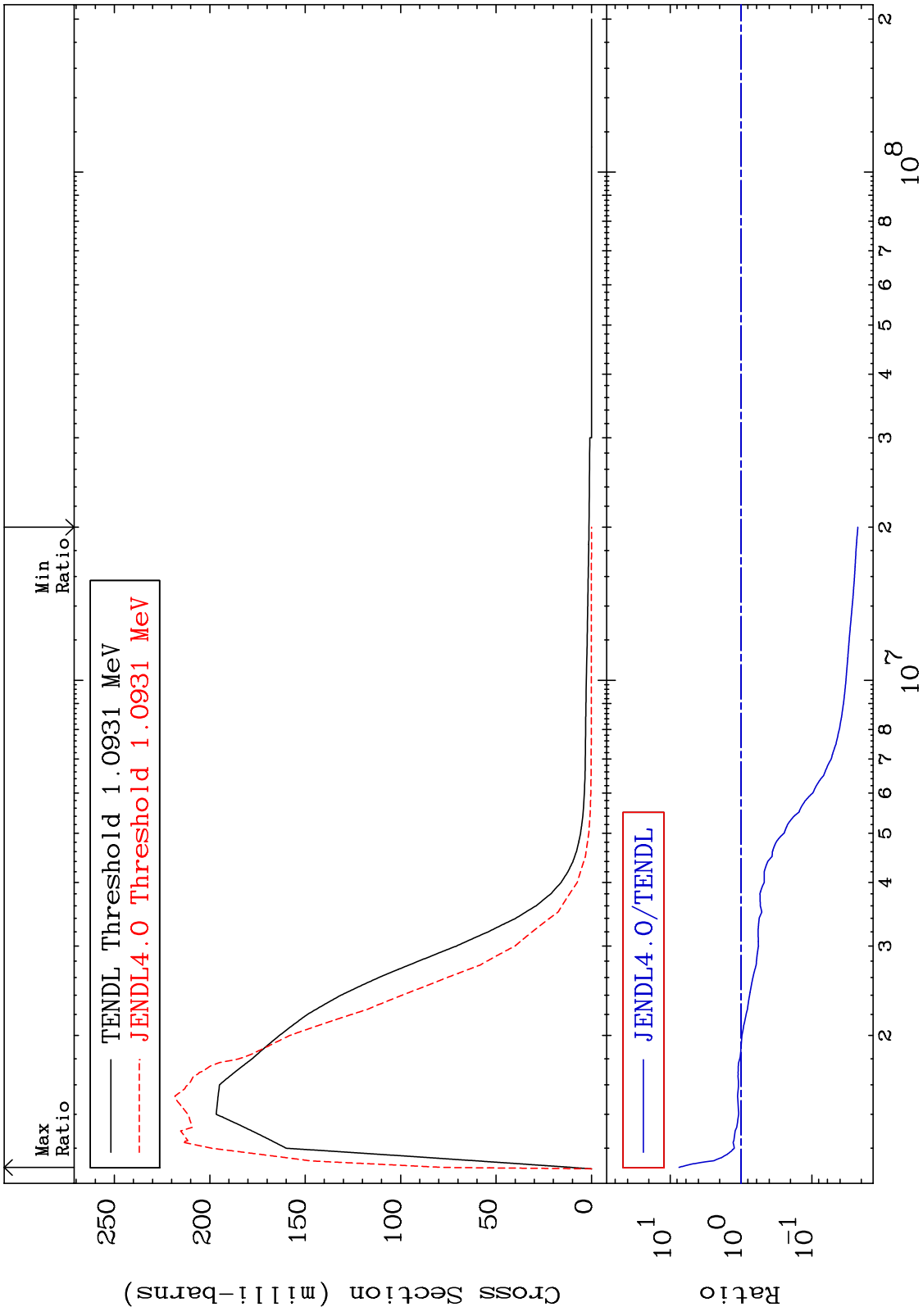


18 Incident Energy (eV) 62-Sm-152

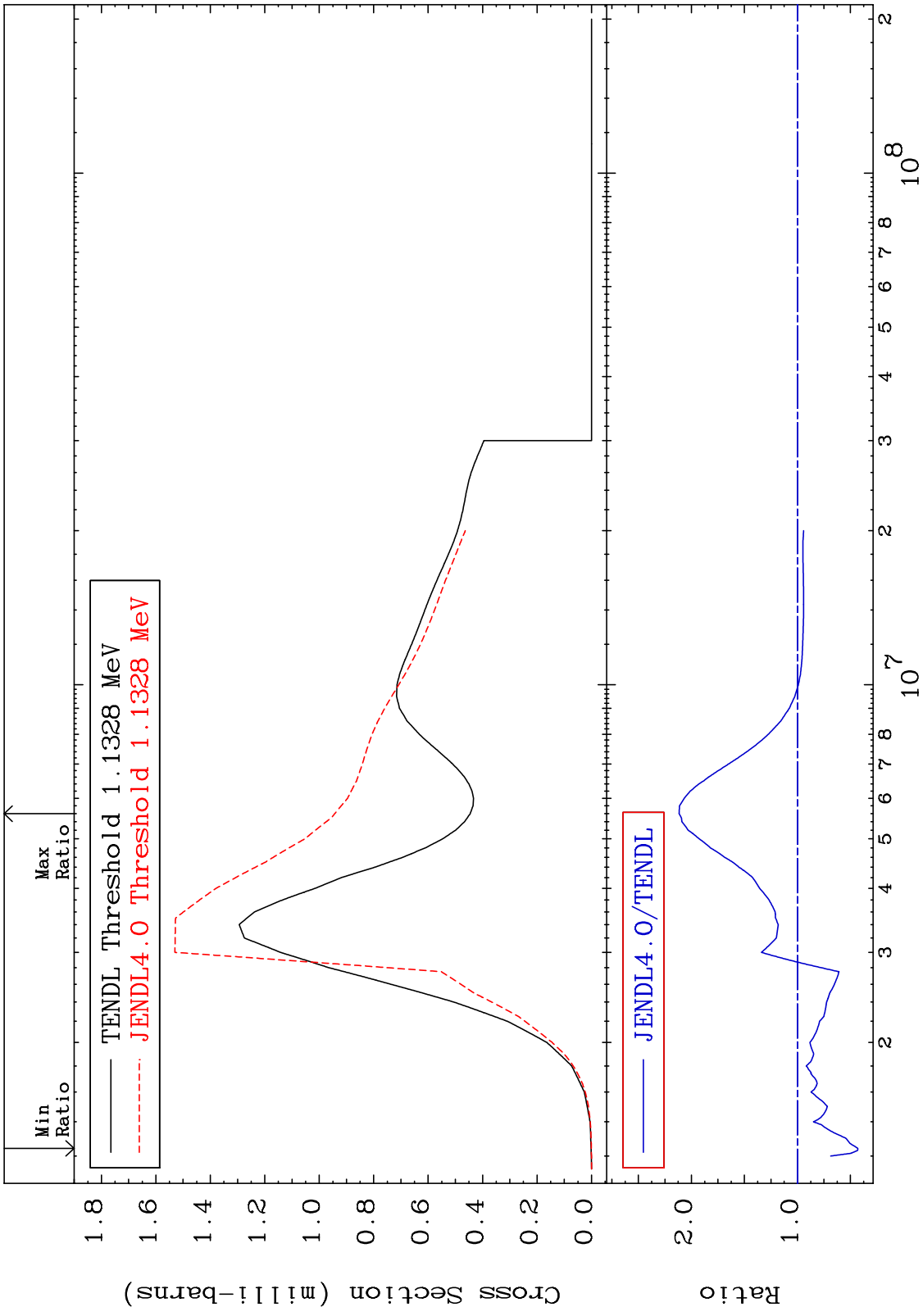
MAT 6249 MT= 59 (n,n') Level Cross Section 62-Sm-152  
 -35.38 To 9999. %



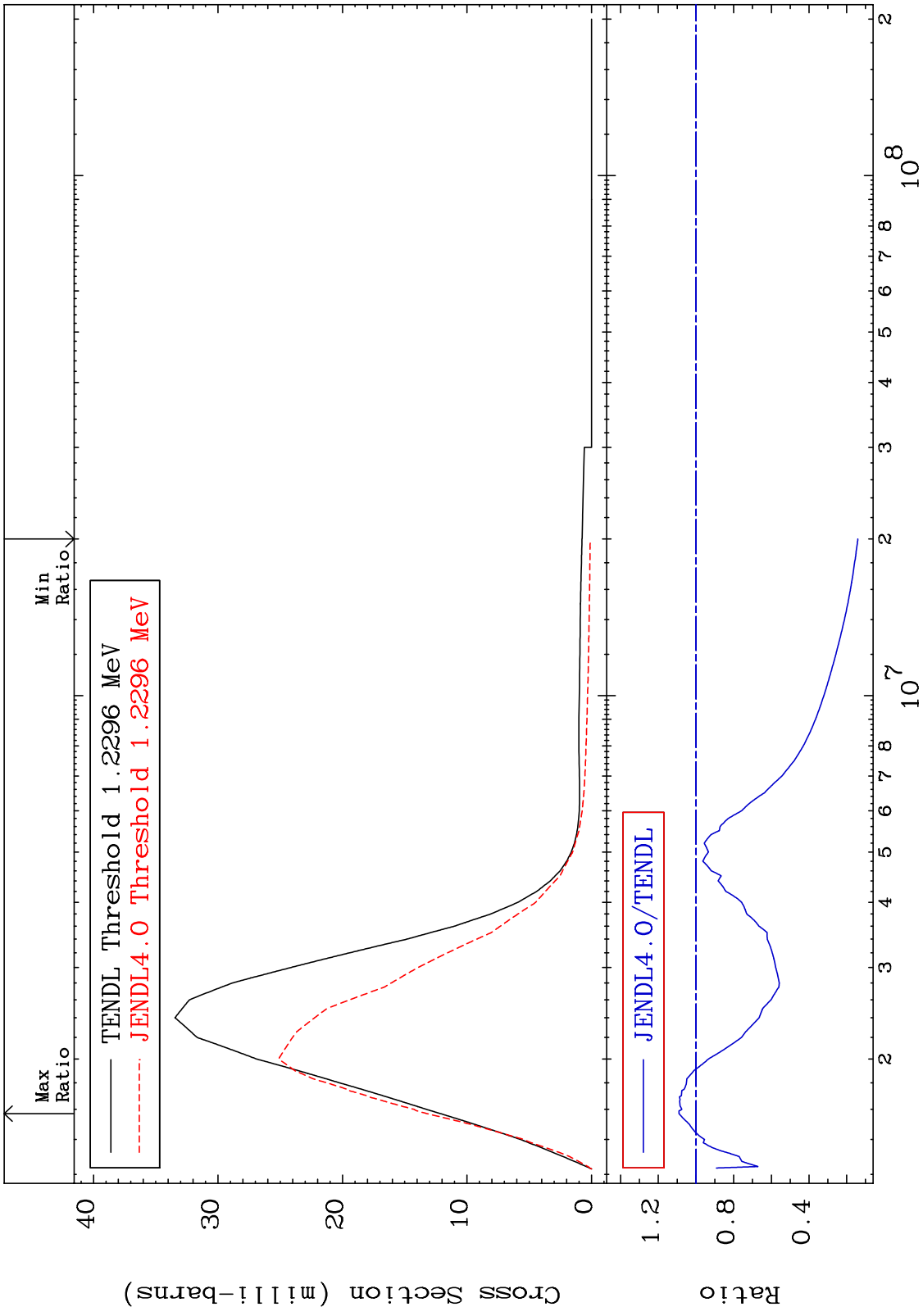
MAT 6249 MT= 60 (n,n') Level Cross Section 62-Sm-152  
 -97.76 To 649.0 %



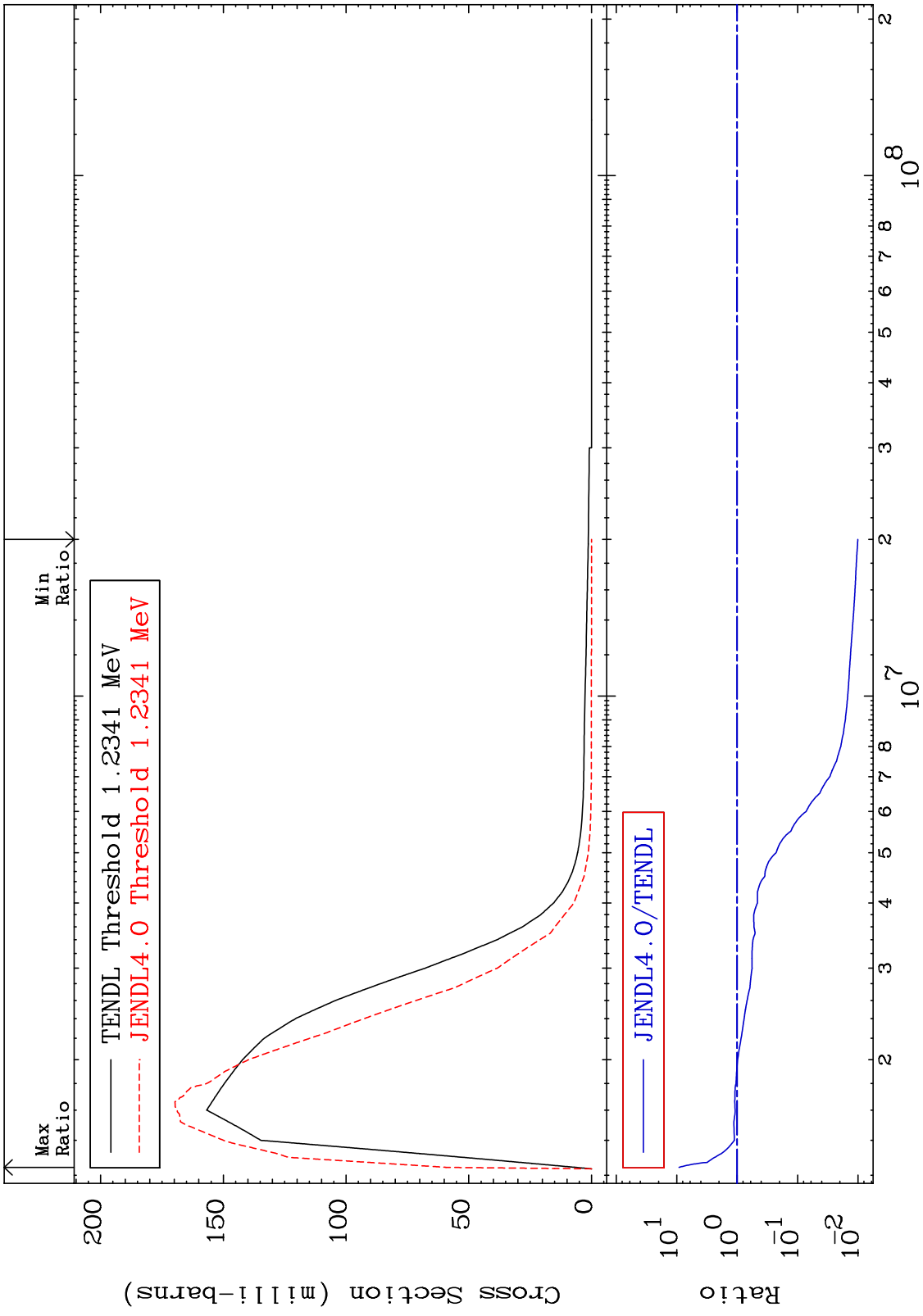
MAT 6249 MT= 61 (n,n') Level Cross Section 62-Sm-152  
 -56.96 To 111.7 %



MAT 6249 MT= 62 (n,n') Level Cross Section 62-Sm-152 -85.91 To 8.988 %

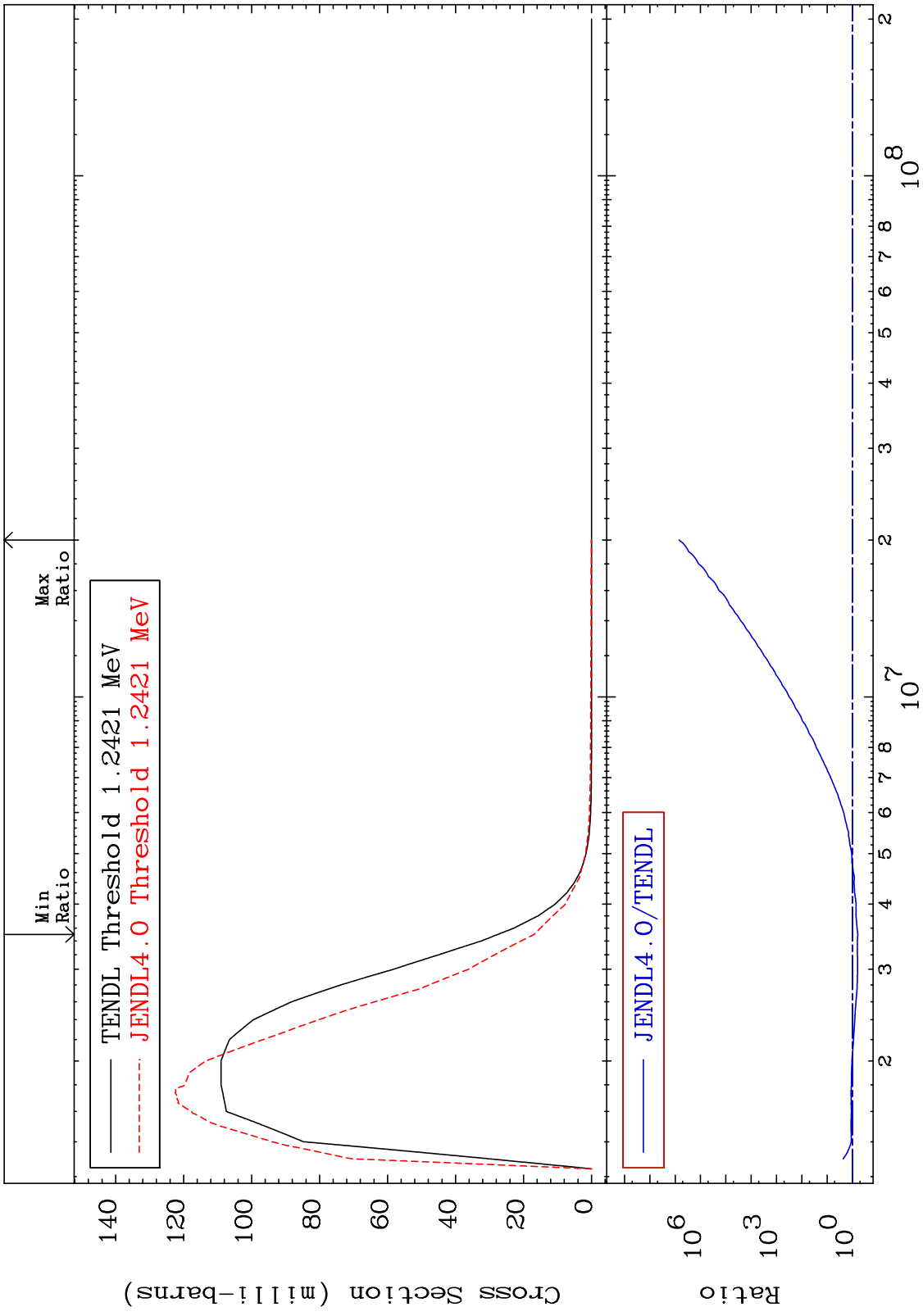


MAT 6249 MT= 63 (n,n') Level Cross Section 62-Sm-152 -98.99 To 815.9 %

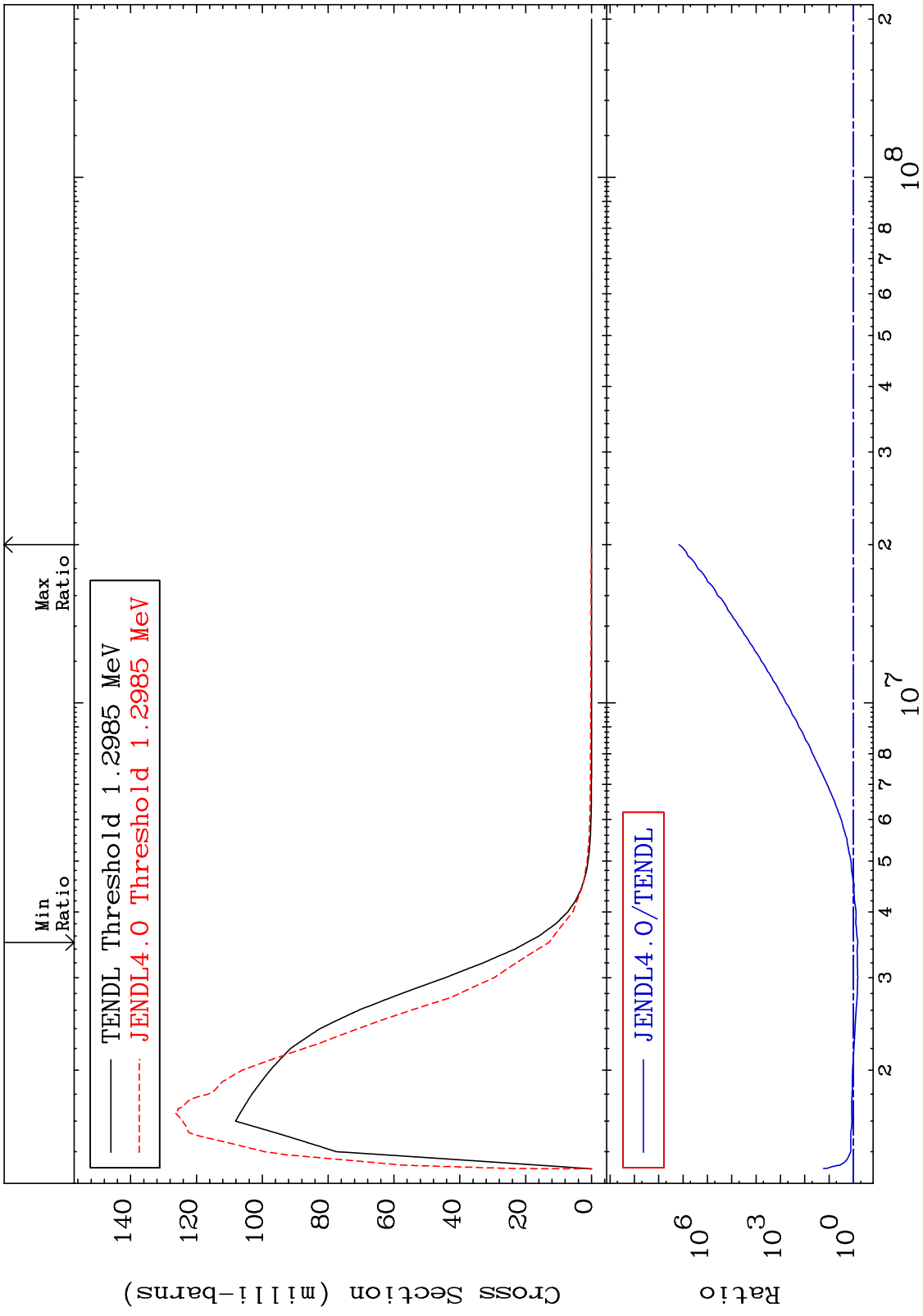




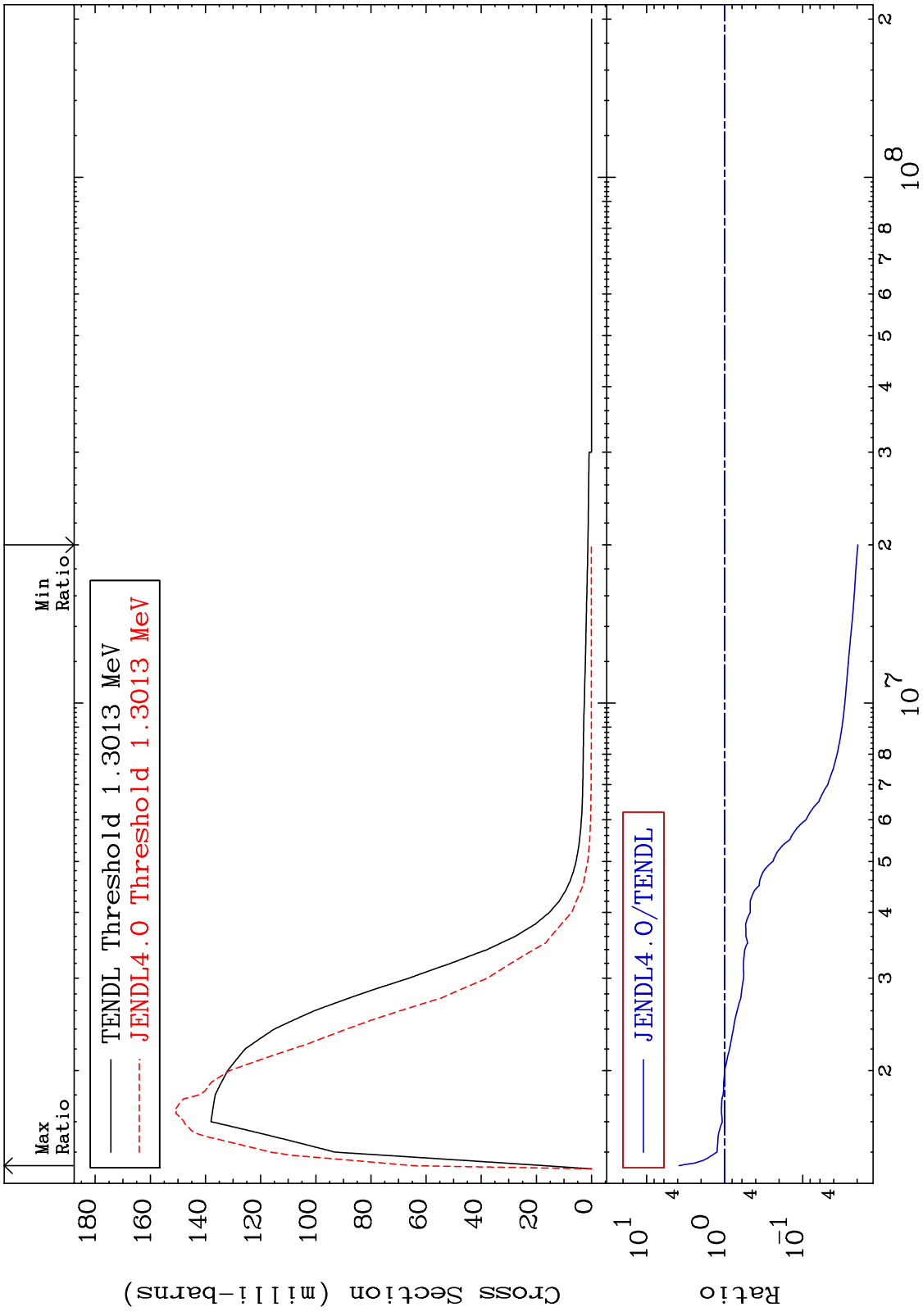
MAT 6249 MT= 64 (n,n') Level Cross Section 62-Sm-152  
 -38.86 To 9999. %



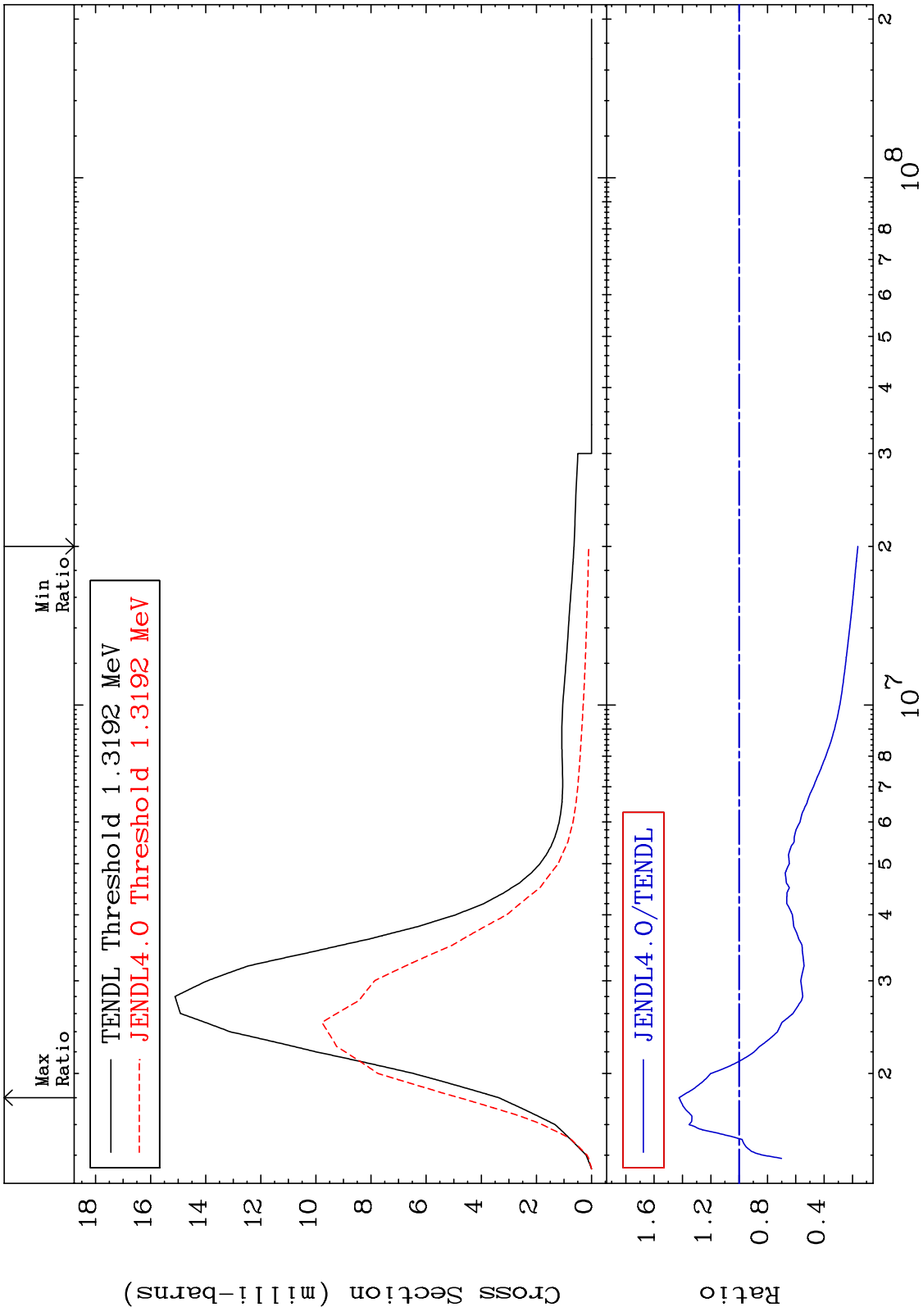
MAT 6249 MT= 65 (n,n') Level Cross Section 62-Sm-152  
 -34.06 To 9999. %



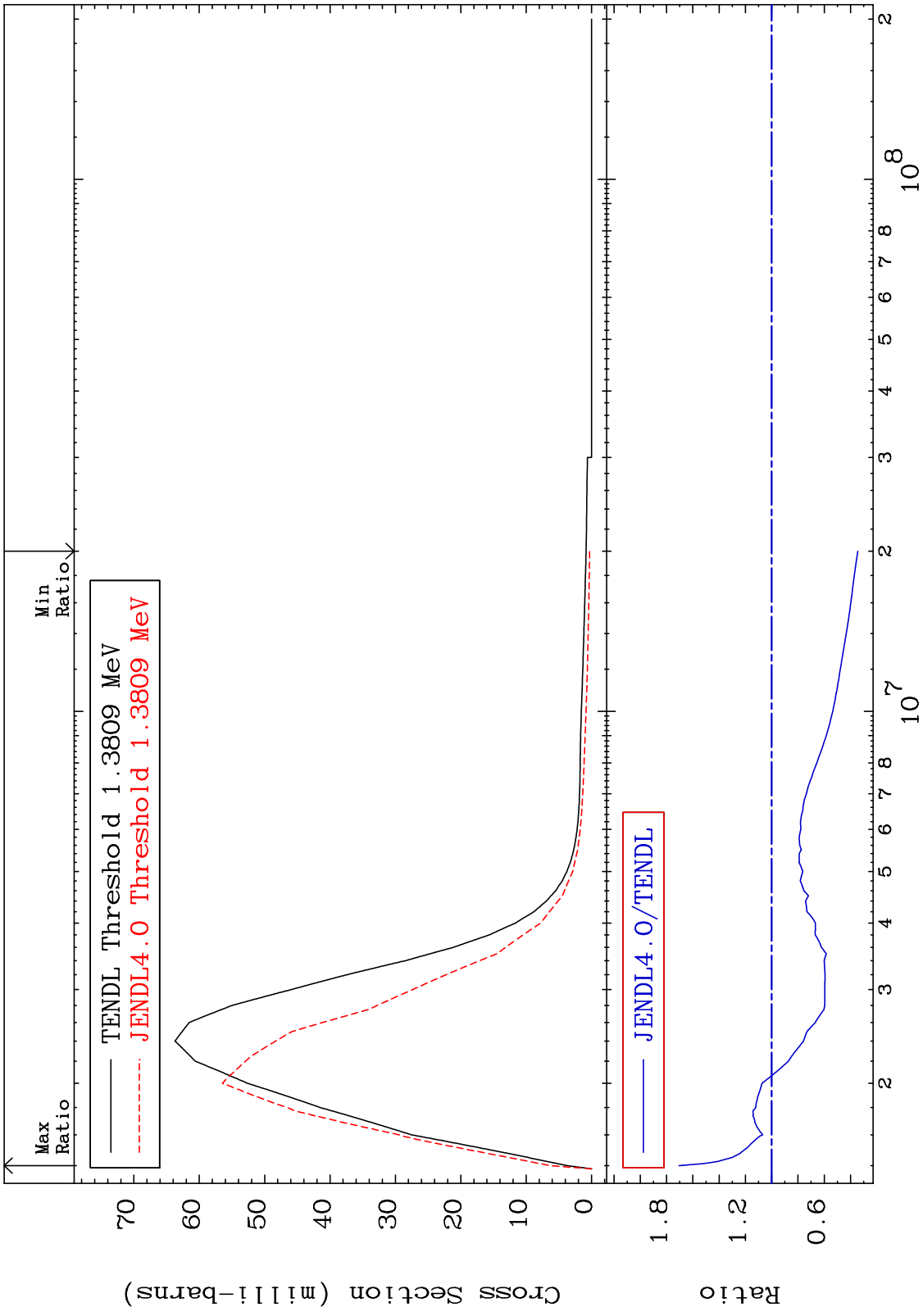
MAT 6249 MT= 66 (n,n') Level Cross Section 62-Sm-152 -98.04 To 283.1 %



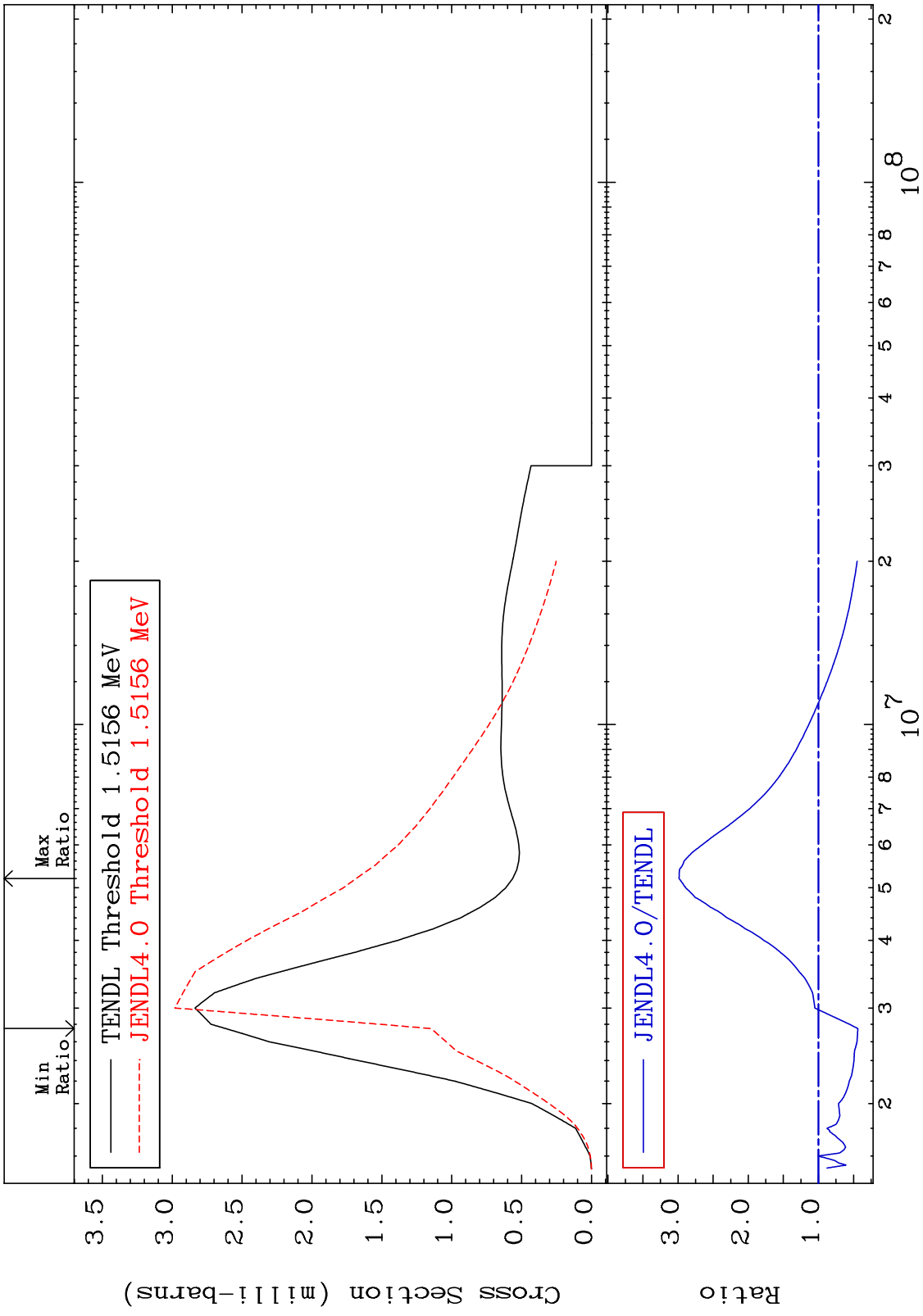
MAT 6249 MT= 67 (n,n') Level Cross Section 62-Sm-152 -83.81 To 42.42 %



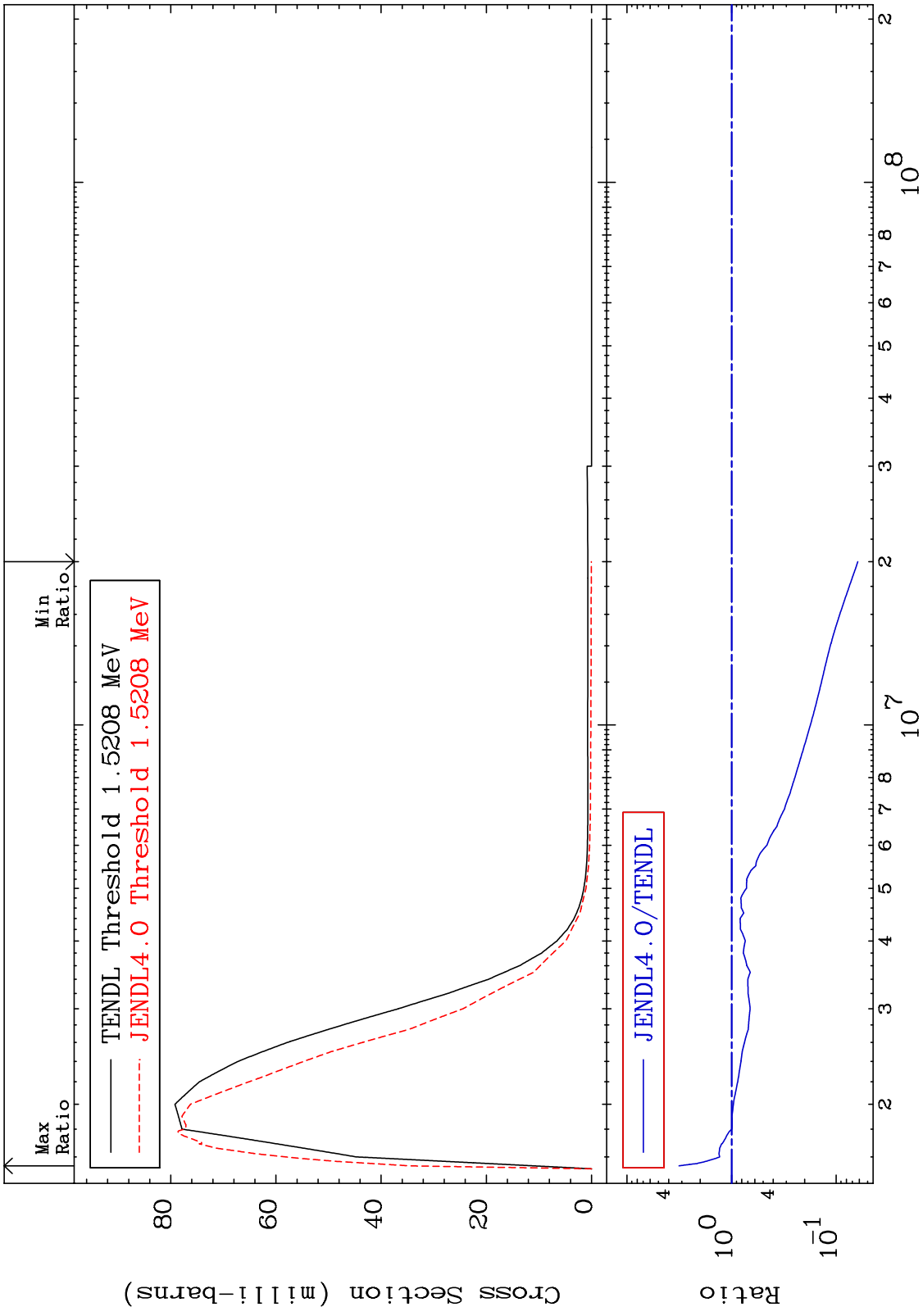
MAT 6249 MT= 68 (n,n') Level Cross Section 62-Sm-152  
 -65.57 To 70.51 %



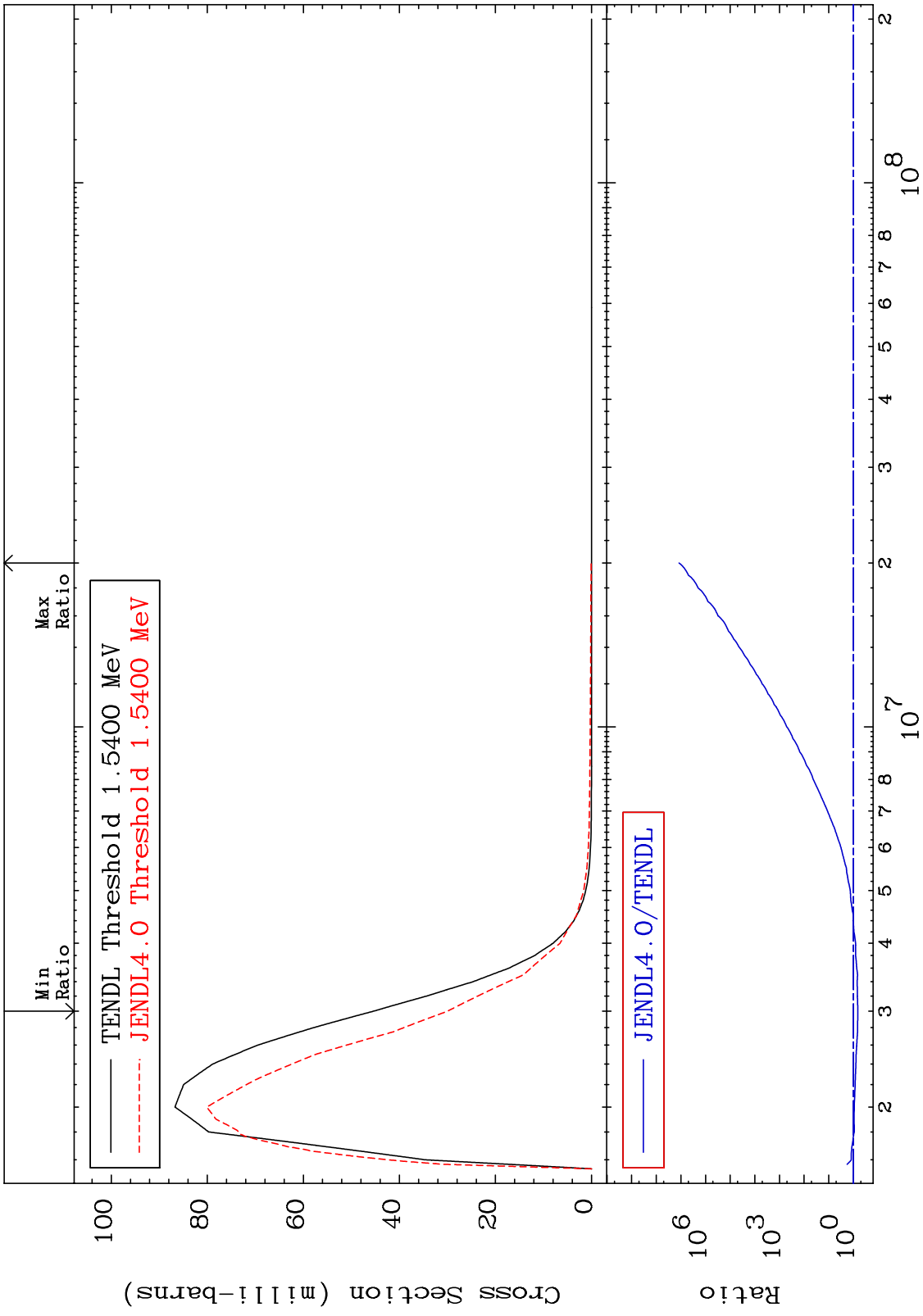
MAT 6249      MT= 69 (n,n') Level Cross Section      62-Sm-152  
 -56.14 To 198.6 %



MAT 6249 MT= 70 (n,n') Level Cross Section 62-Sm-152 -93.79 To 218.1 %

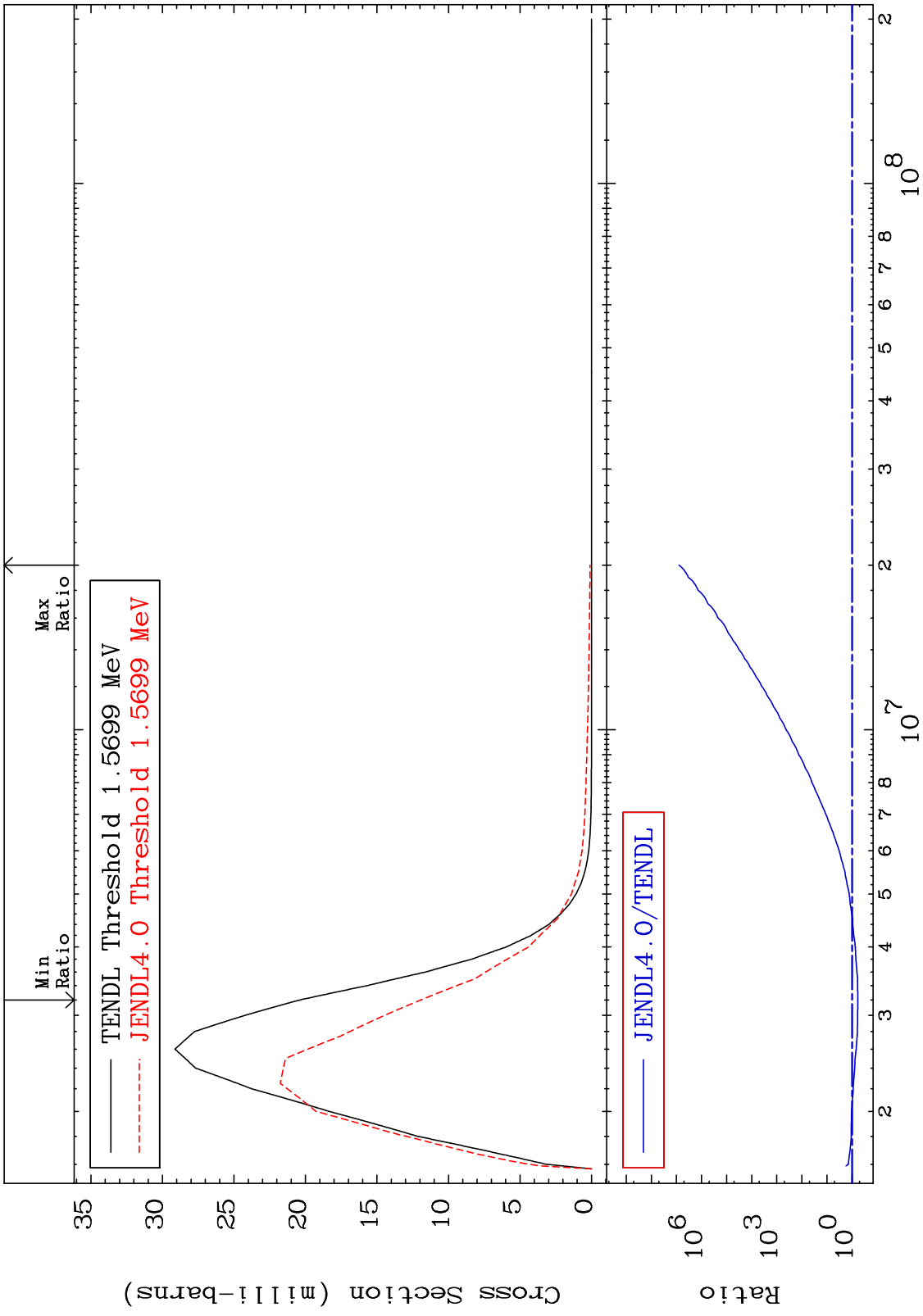


MAT 6249      MT= 71 (n,n') Level Cross Section      62-Sm-152  
 -33.96 To 9999. %

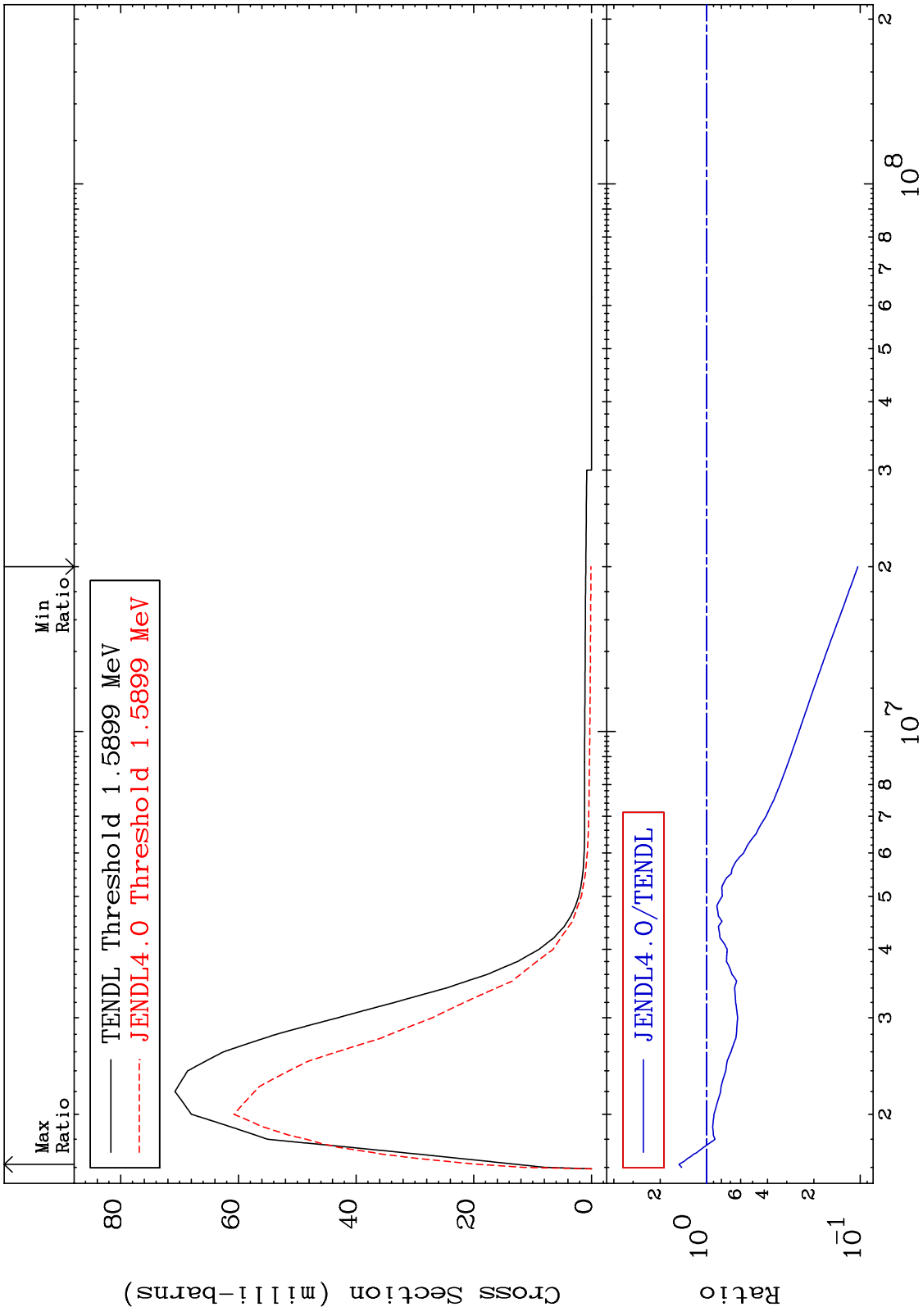




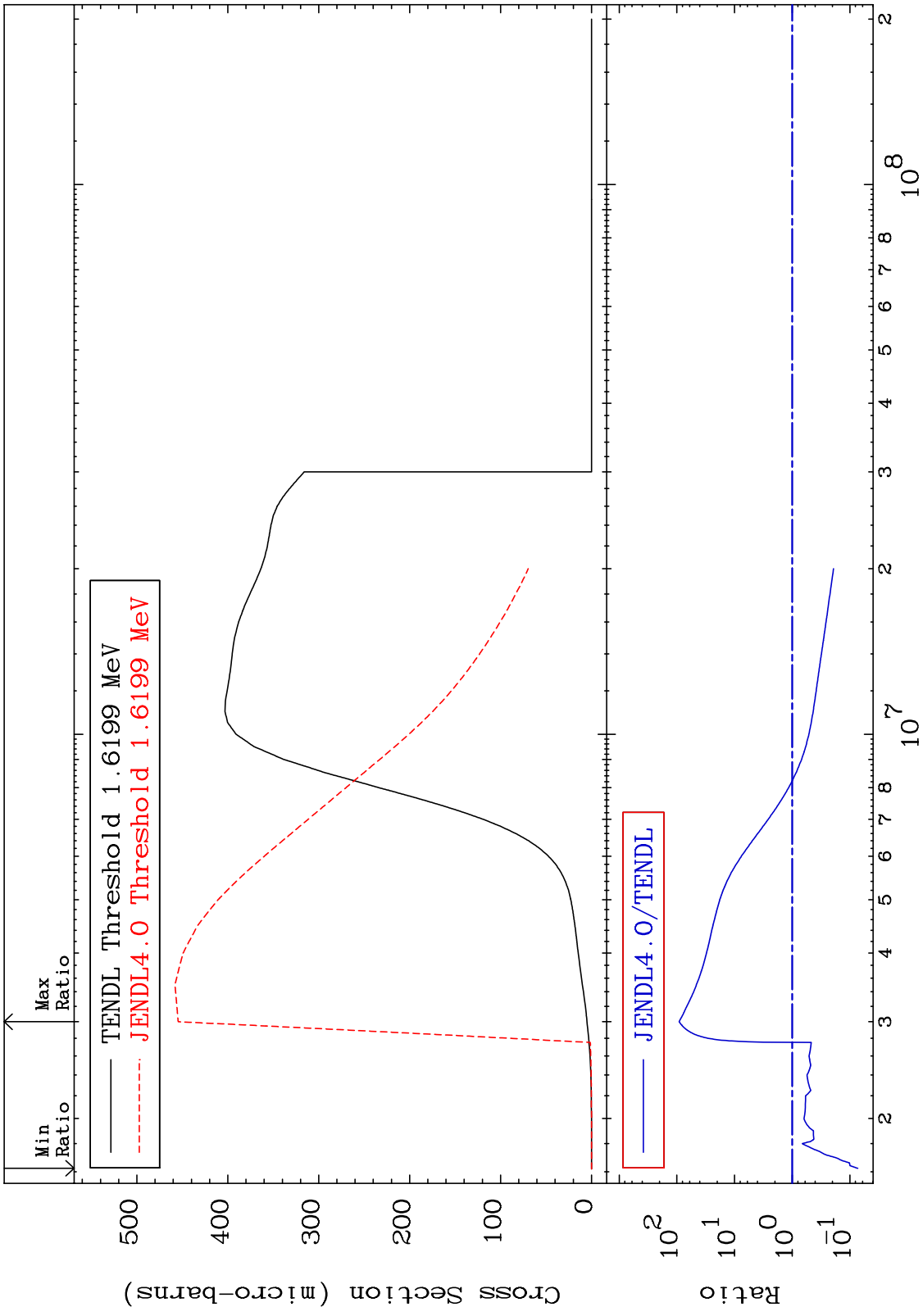
MAT 6249      MT= 72 (n,n') Level      62-Sm-152  
 Cross Section      -41.48 To 9999. %



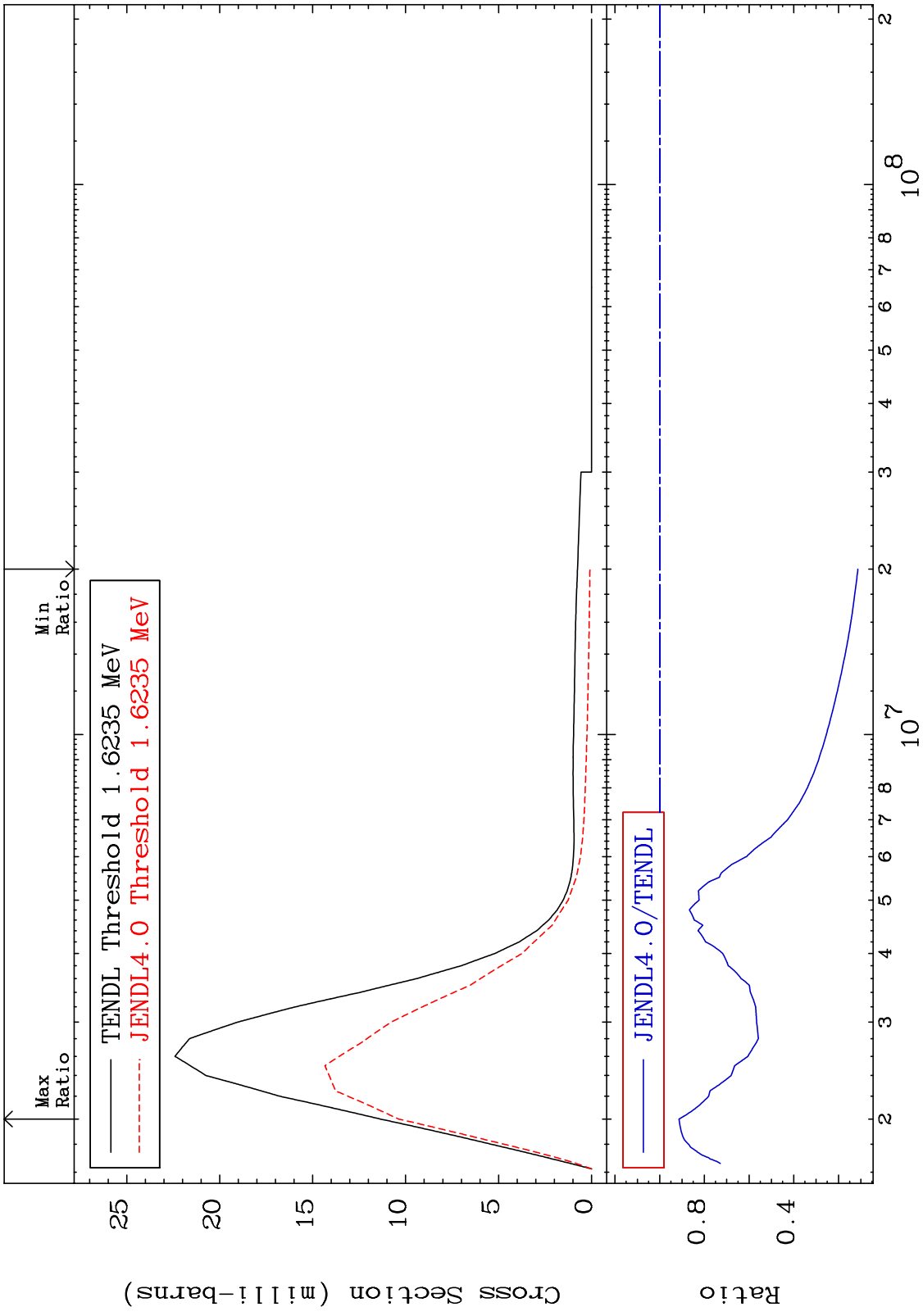
MAT 6249 MT= 73 (n,n') Level Cross Section 62-Sm-152  
 -89.65 To 50.78 %



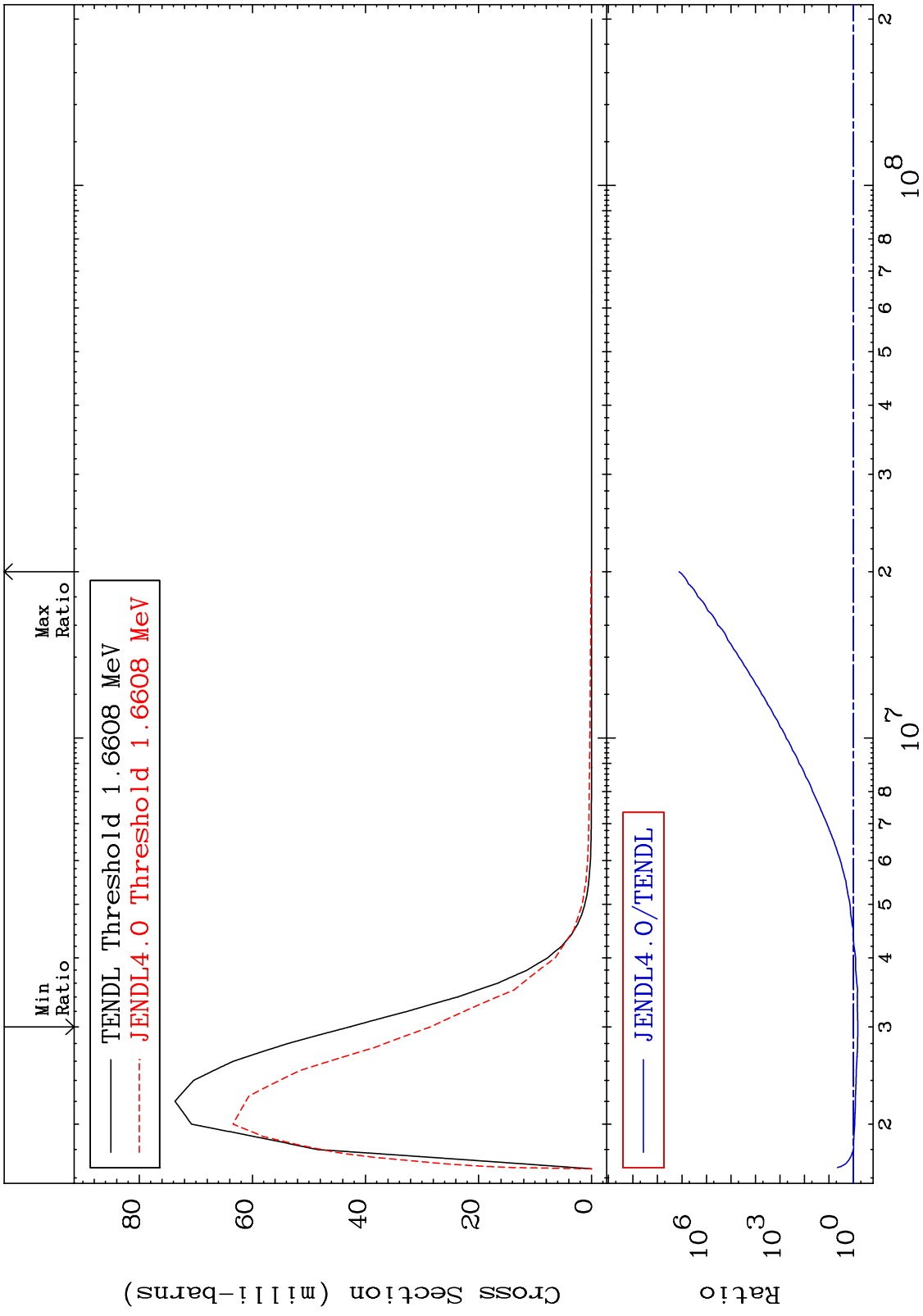
MAT 6249 MT= 74 (n,n') Level Cross Section 62-Sm-152 -92.72 To 9072. %



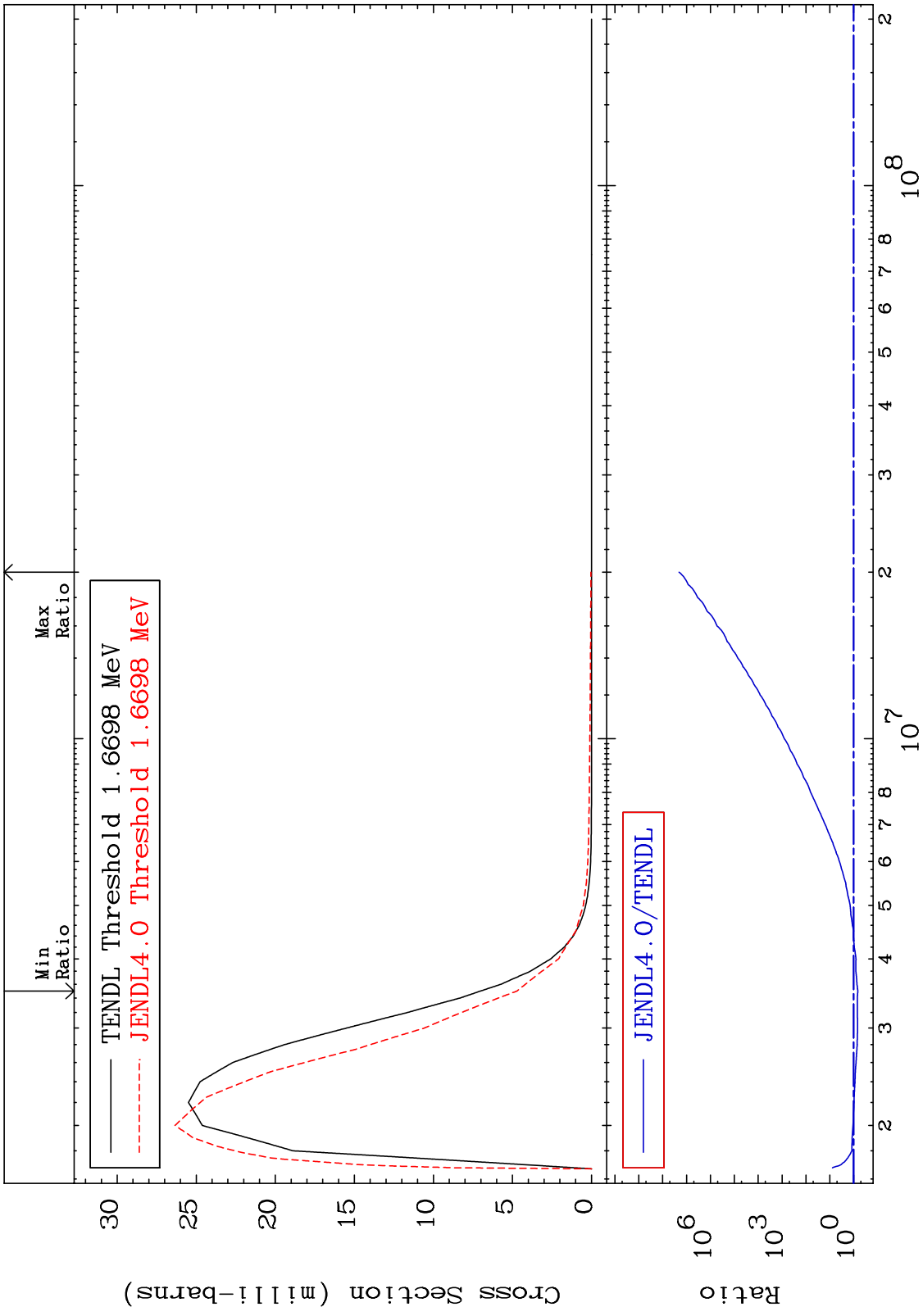
MAT 6249 MT= 75 (n,n') Level Cross Section 62-Sm-152 -88.67 To -8.660%



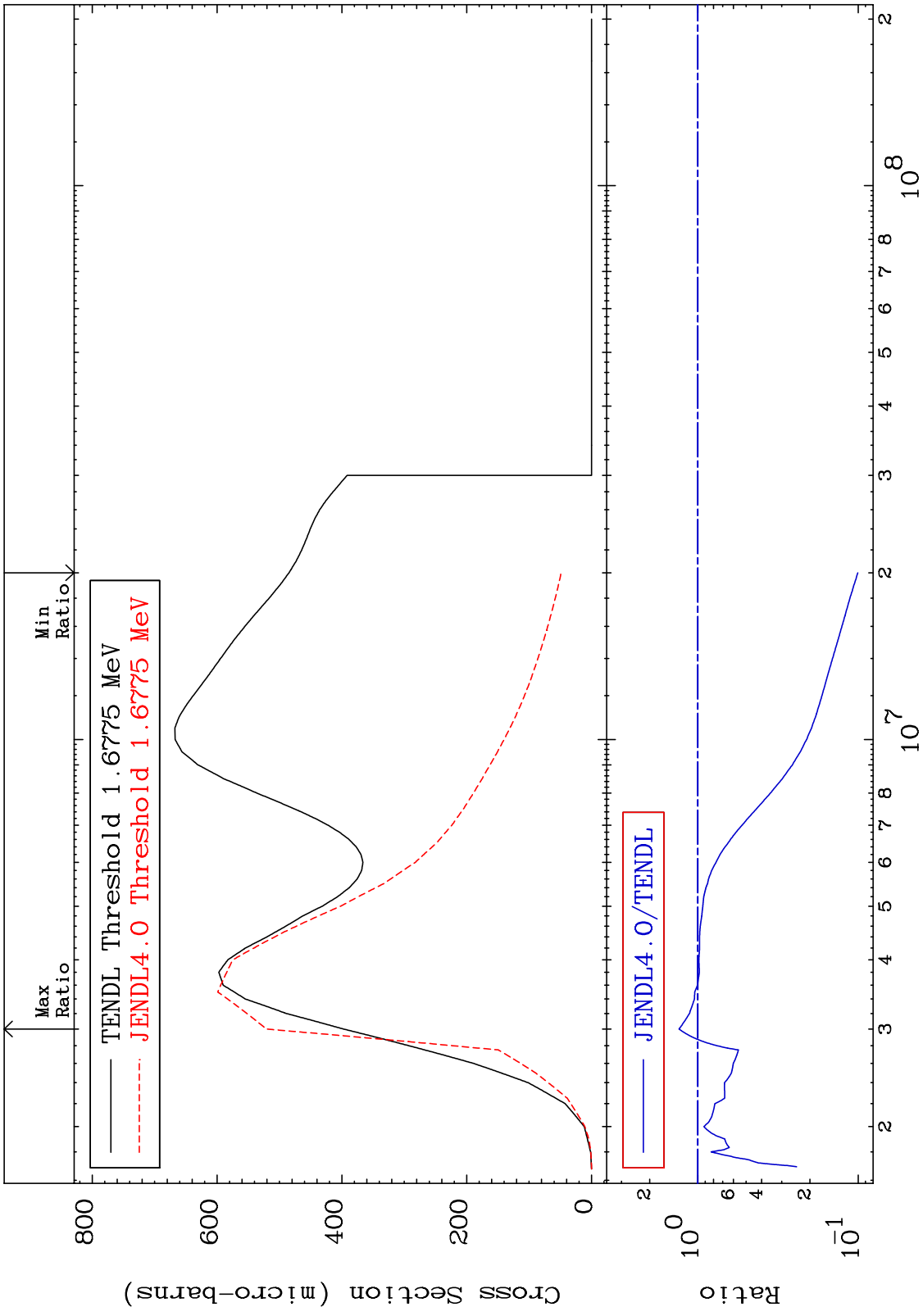
MAT 6249 MT= 76 (n,n') Level Cross Section 62-Sm-152  
 -33.43 To 9999. %



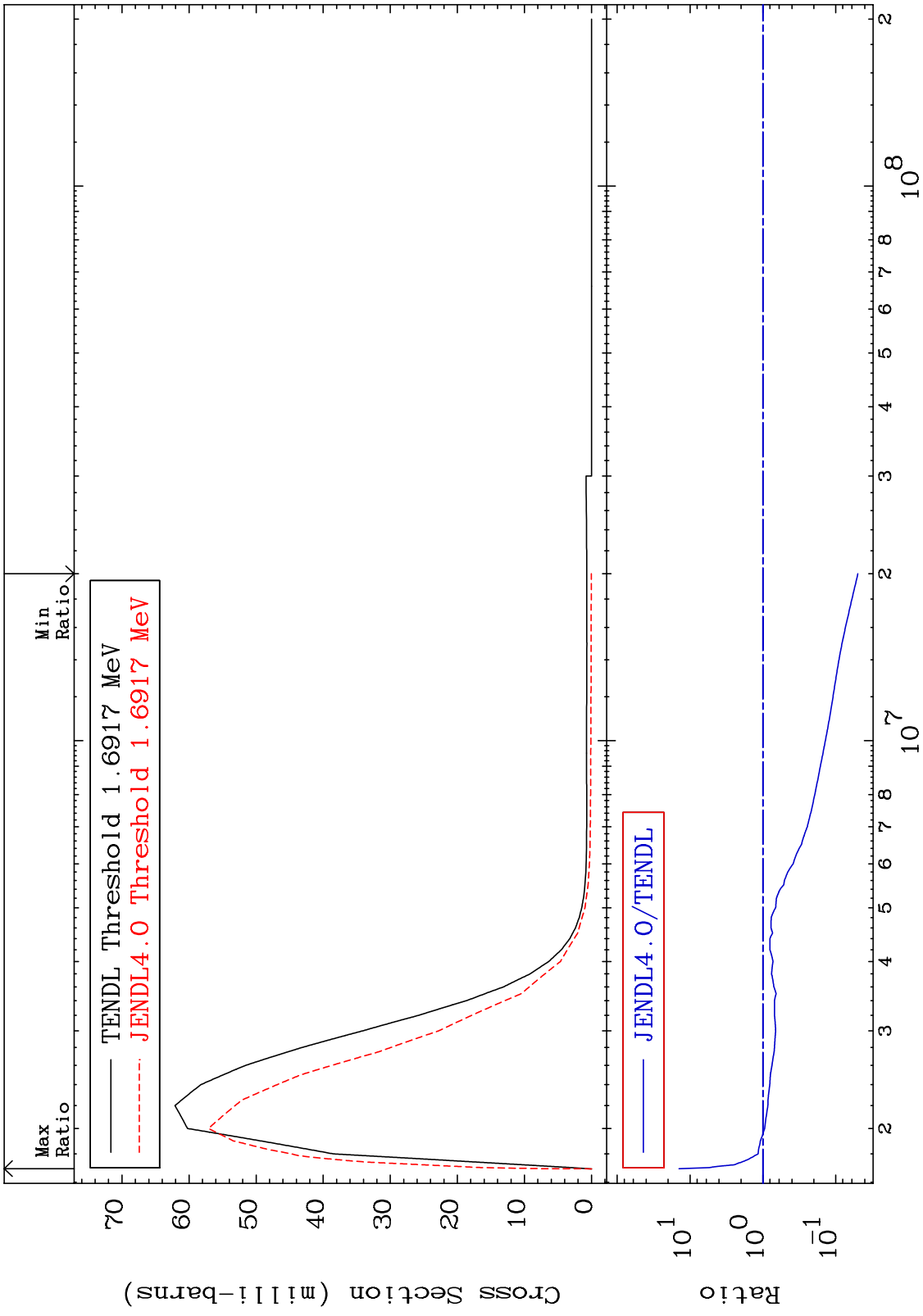
MAT 6249      MT= 77 (n,n') Level Cross Section      62-Sm-152  
 -32.83 To 9999. %



MAT 6249 MT= 78 (n,n') Level Cross Section 62-Sm-152  
 -89.95 To 31.05 %

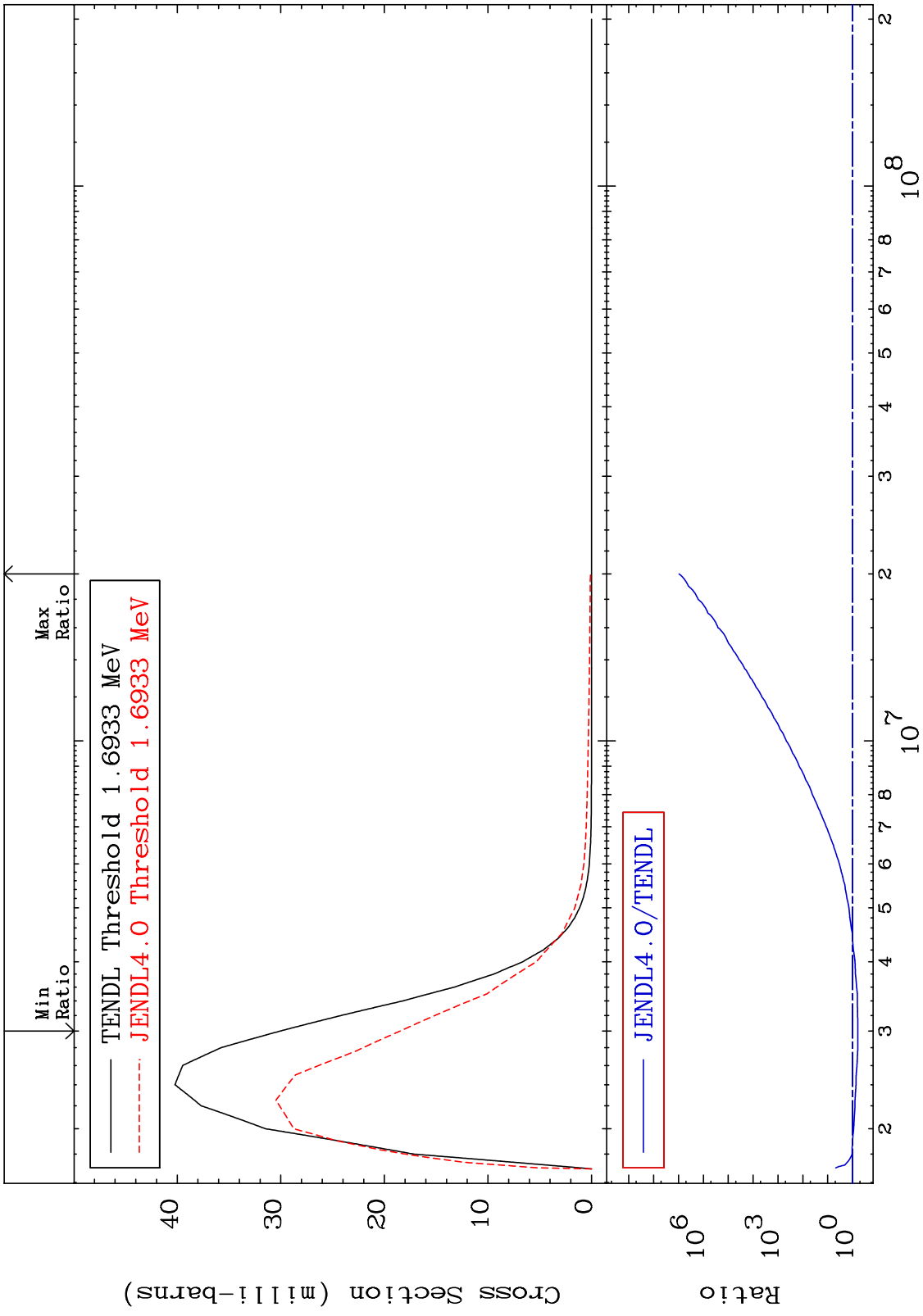


MAT 6249 MT= 79 (n,n') Level Cross Section 62-Sm-152  
 -95.02 To 1315. %





MAT 6249 MT= 80 (n,n') Level Cross Section 62-Sm-152  
 -38.53 To 9999. %

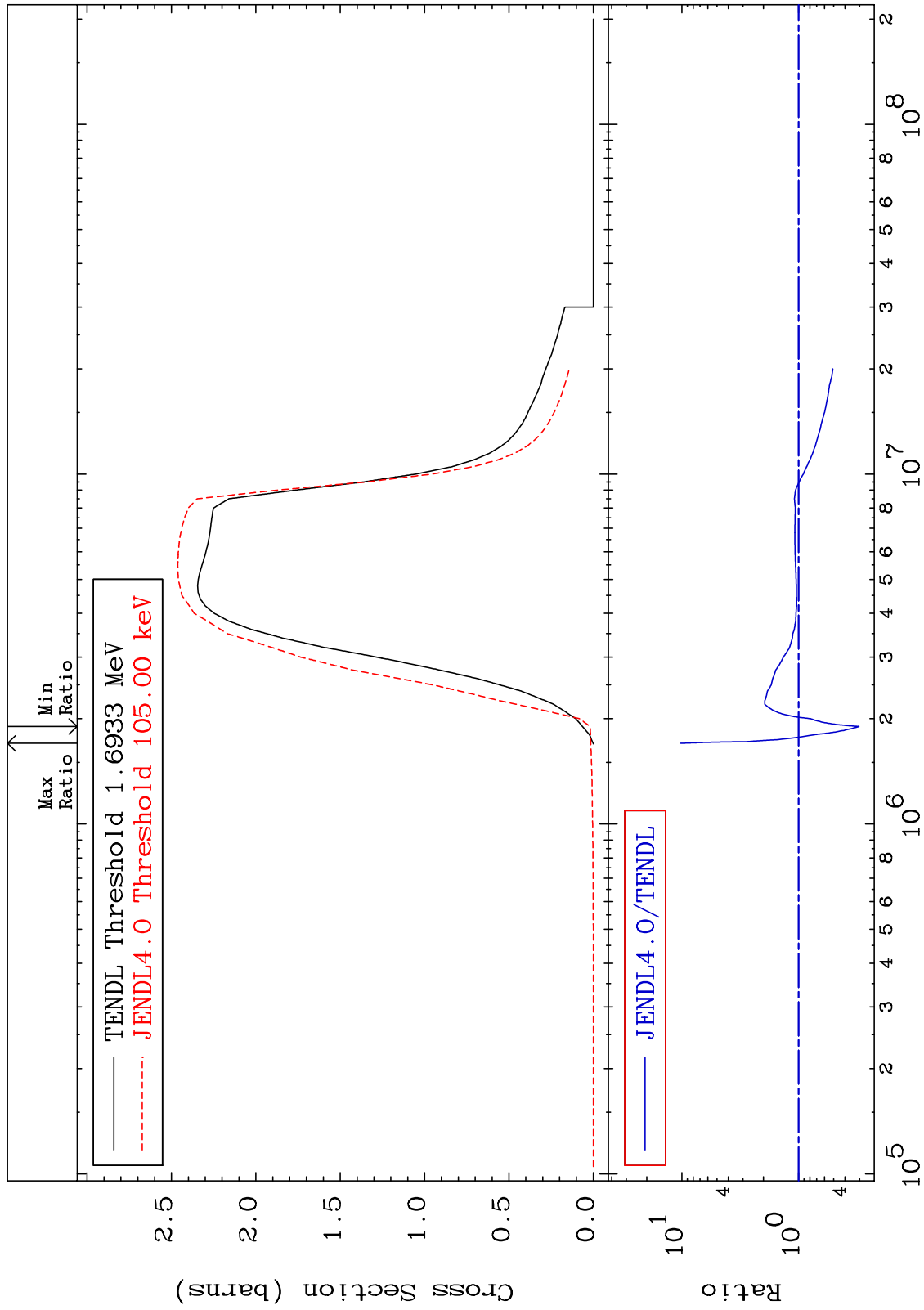


40 62-Sm-152 Incident Energy (eV)

MAT 6249

(n, n') Continuum  
Cross Section

62-Sm-152  
-69.68 To 926.4 %



41

Incident Energy (eV)

62-Sm-152

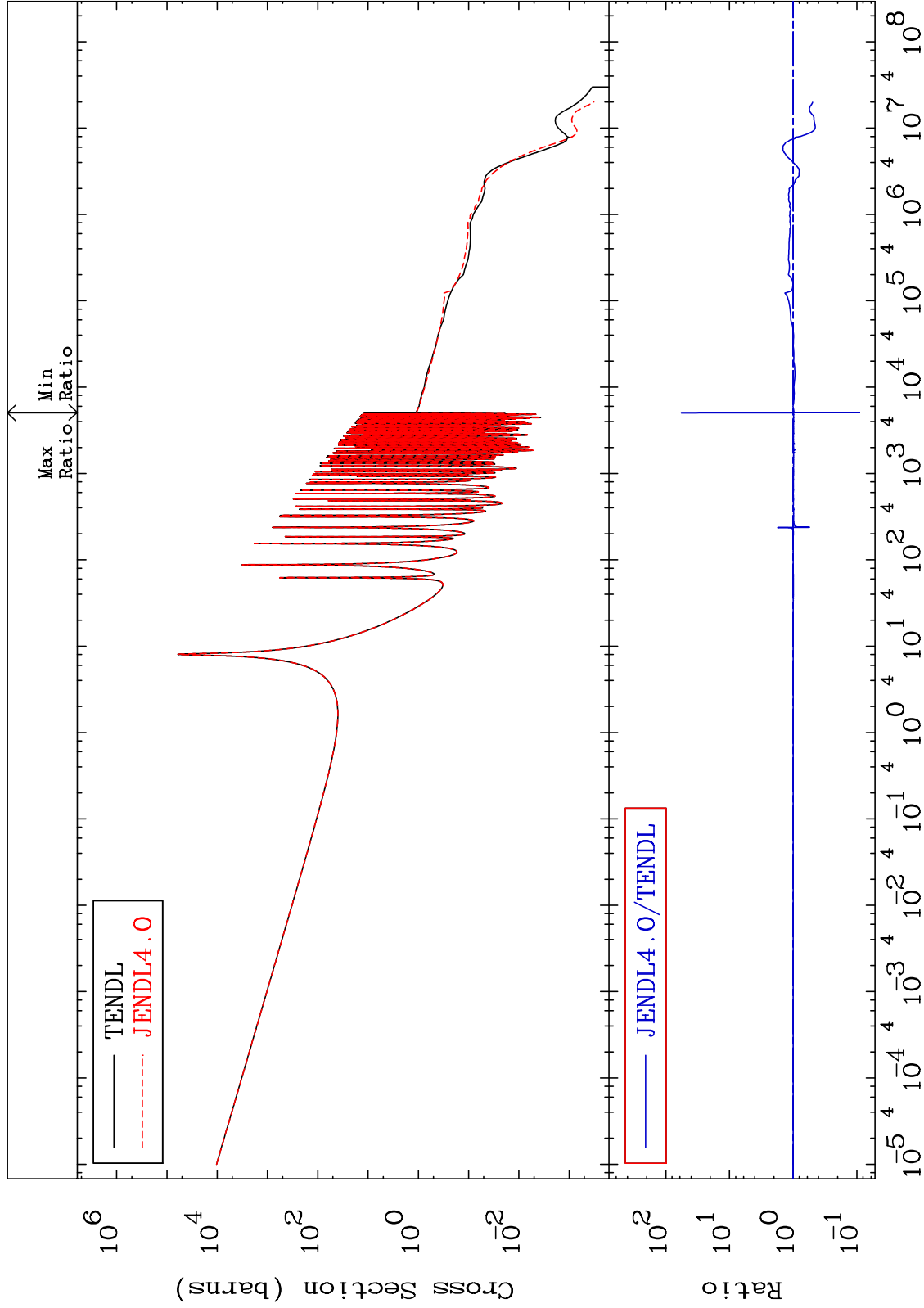
MAT 6249

(n,  $\gamma$ )

62-Sm-152

-91.00 To 5619. %

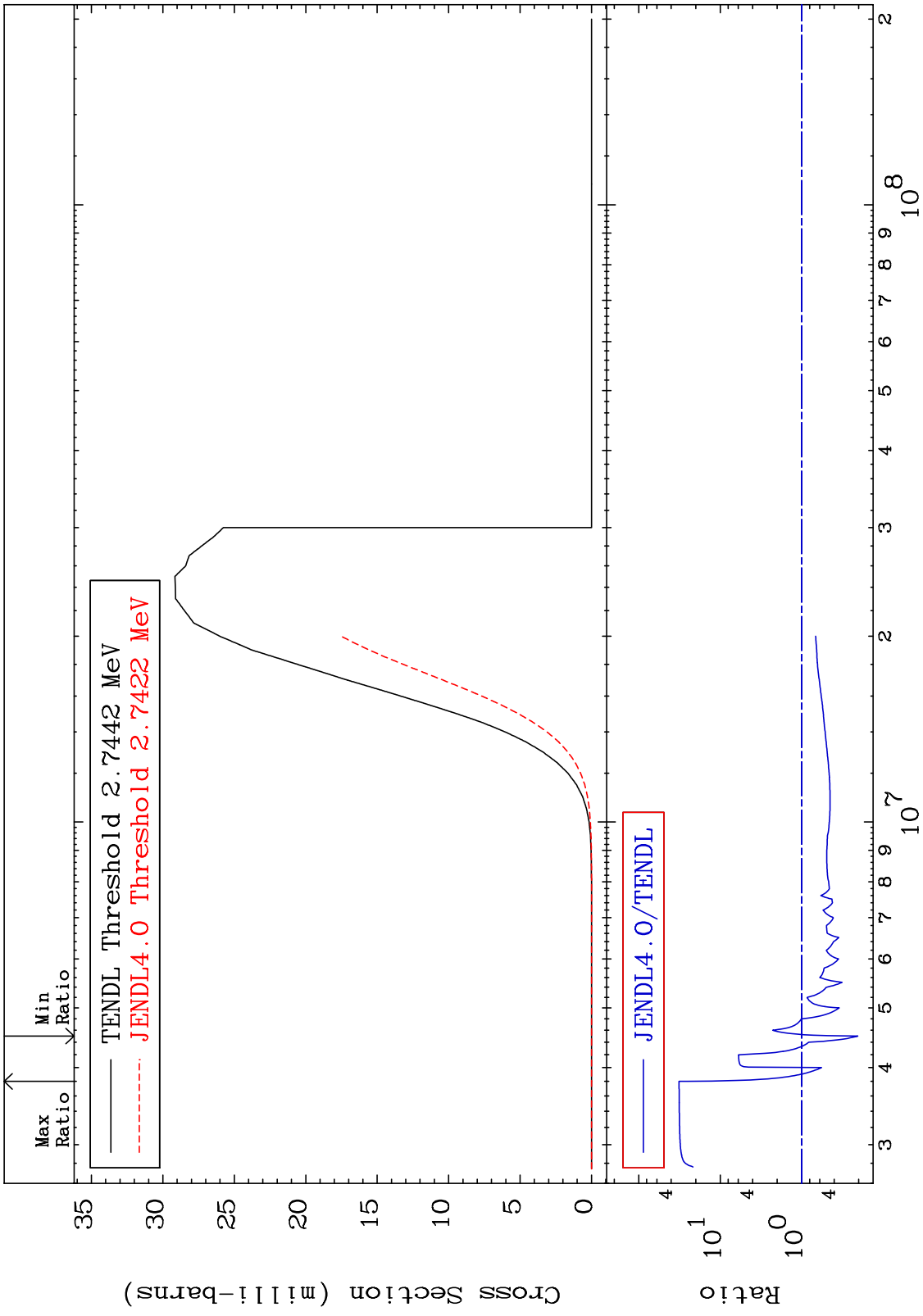
Cross Section



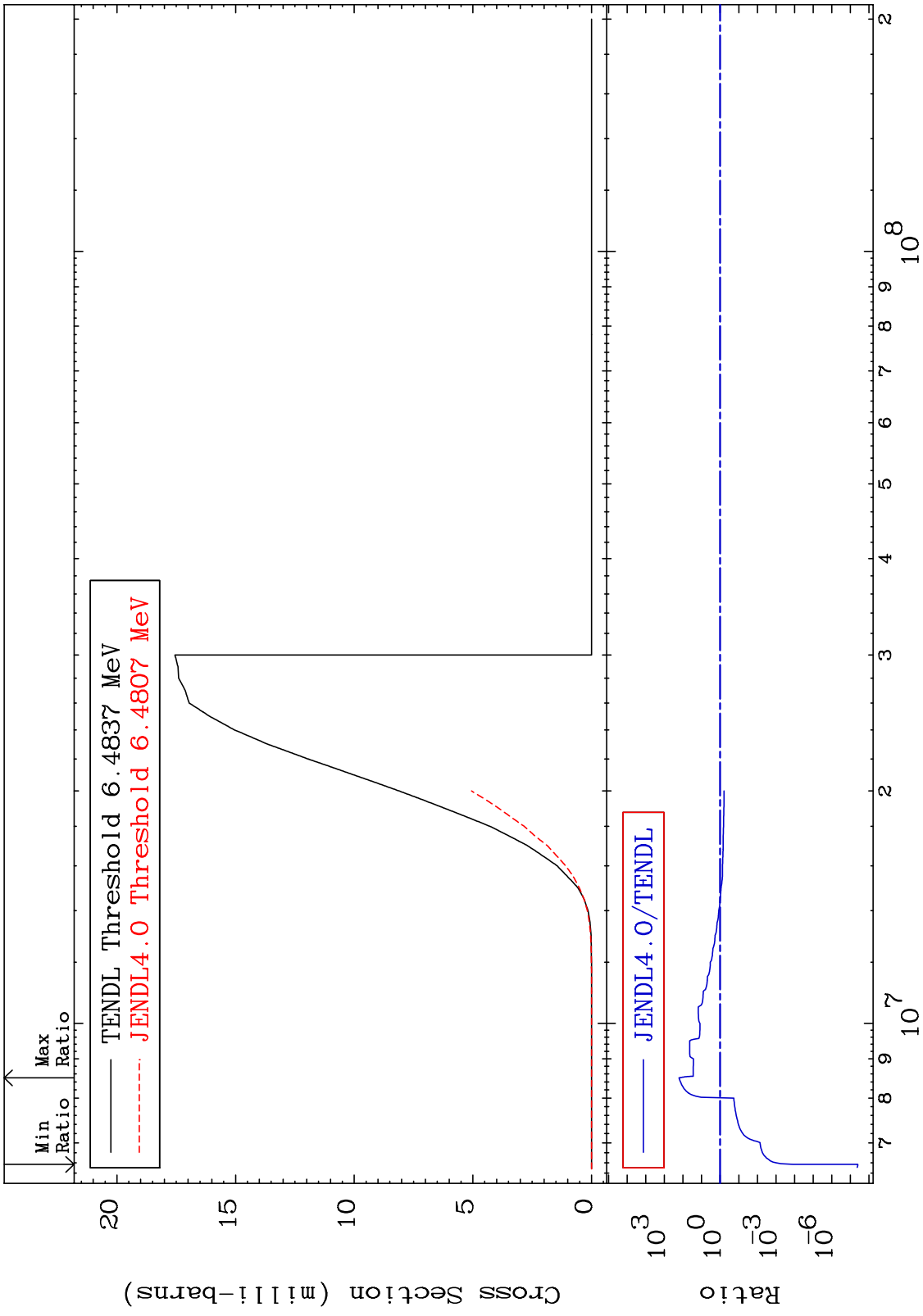
42

Incident Energy (eV)

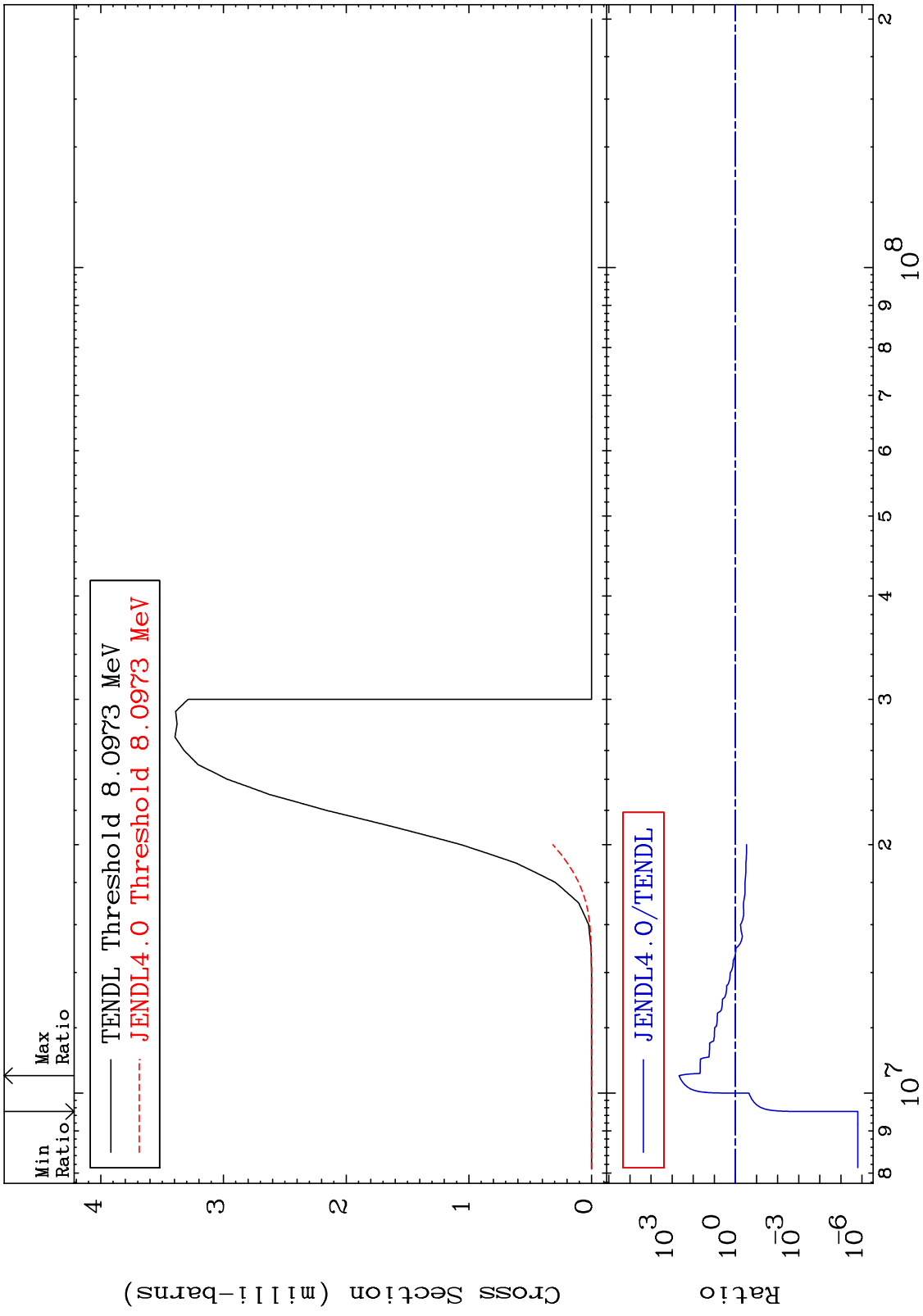
62-Sm-152



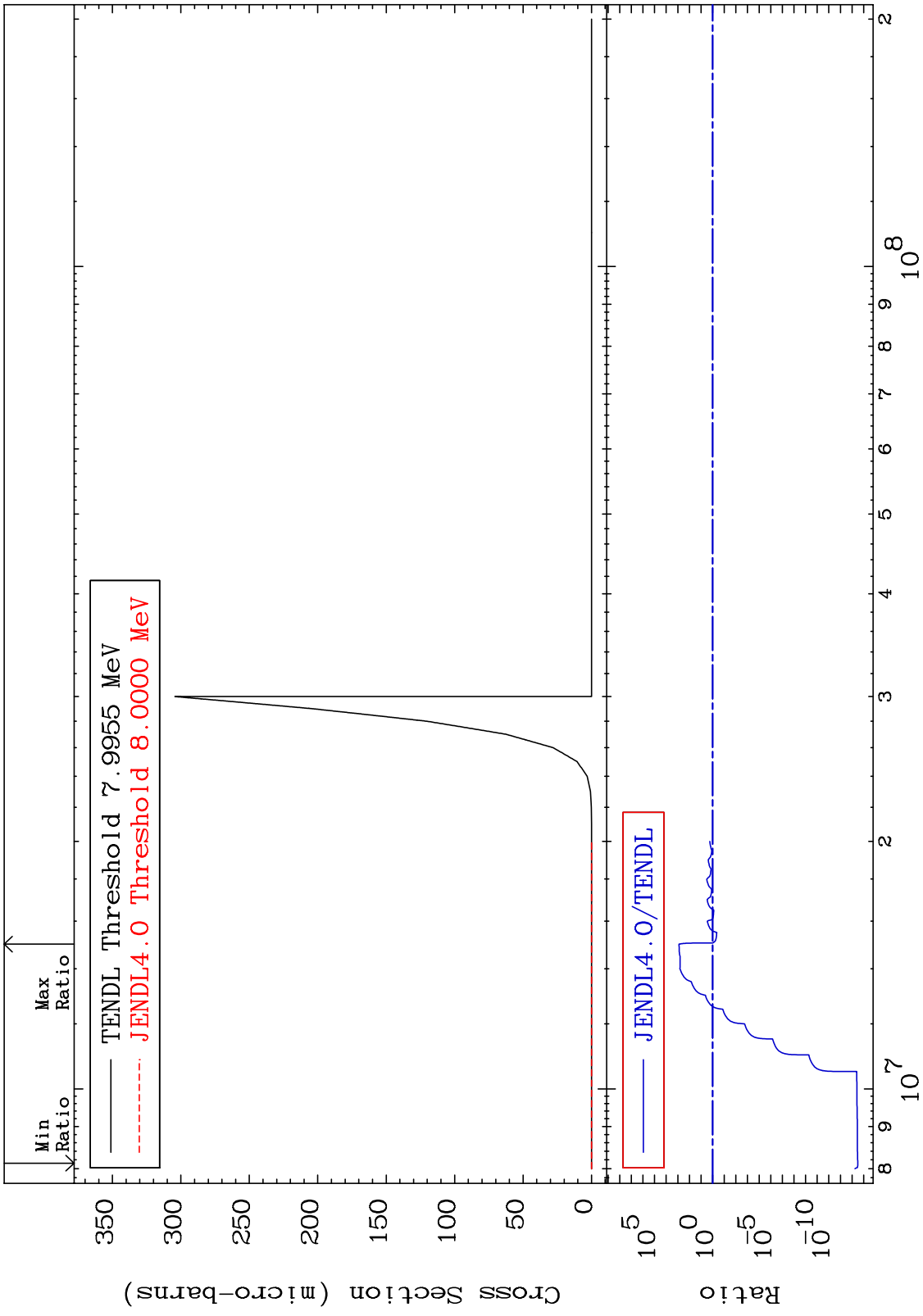
MAT 6249 (n,d) Cross Section 62-Sm-152 -100.0 To 9999. %



MAT 6249 (n,t) Cross Section 62-Sm-152 -100.0 To 9999. %



MAT 6249 (n, He-3) 62-Sm-152  
 Cross Section -100.0 To 9999. %



MAT 6249

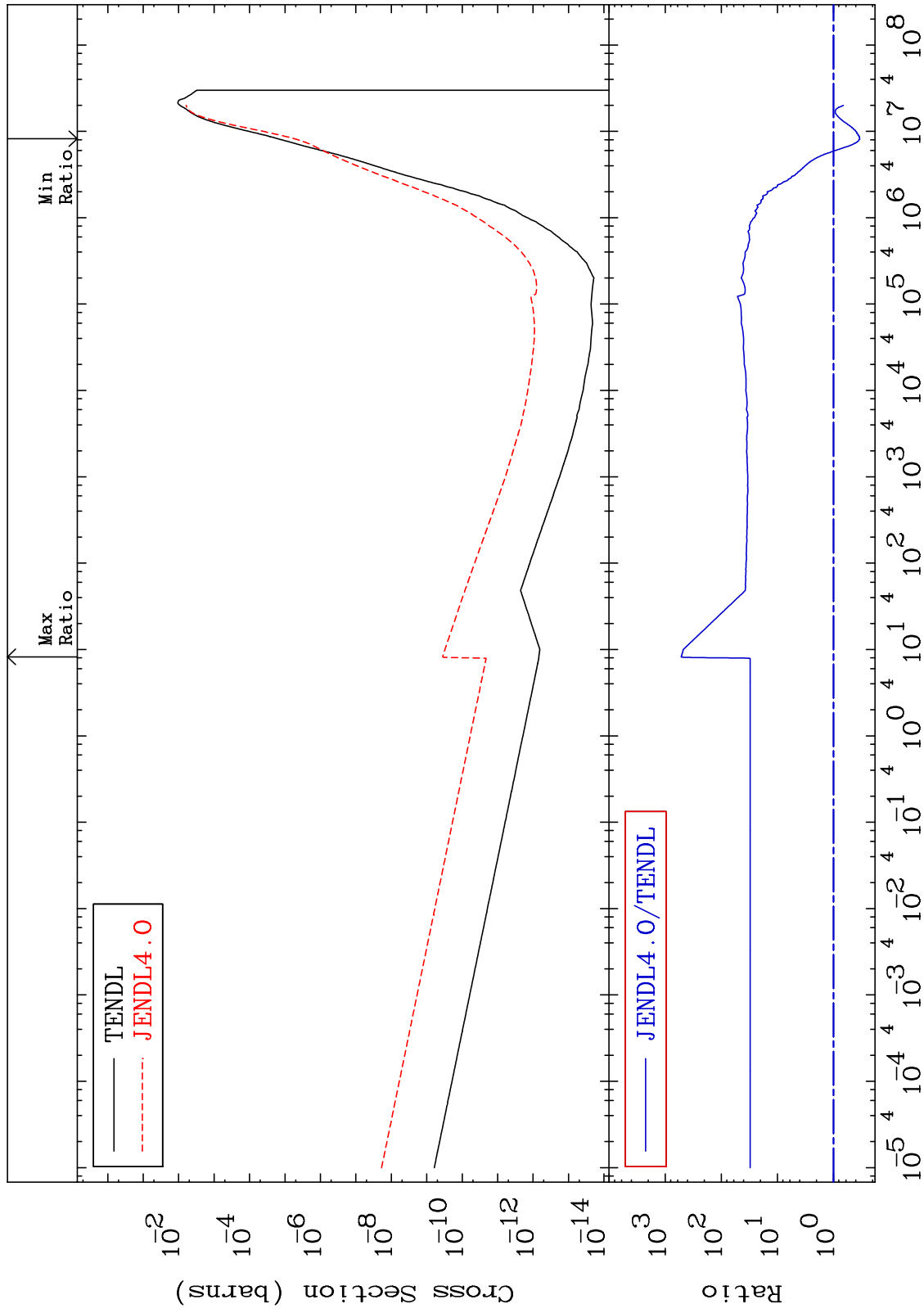
(n,  $\alpha$ )

62-Sm-152

Cross Section

Cross Section

-66.07 To 9999. %

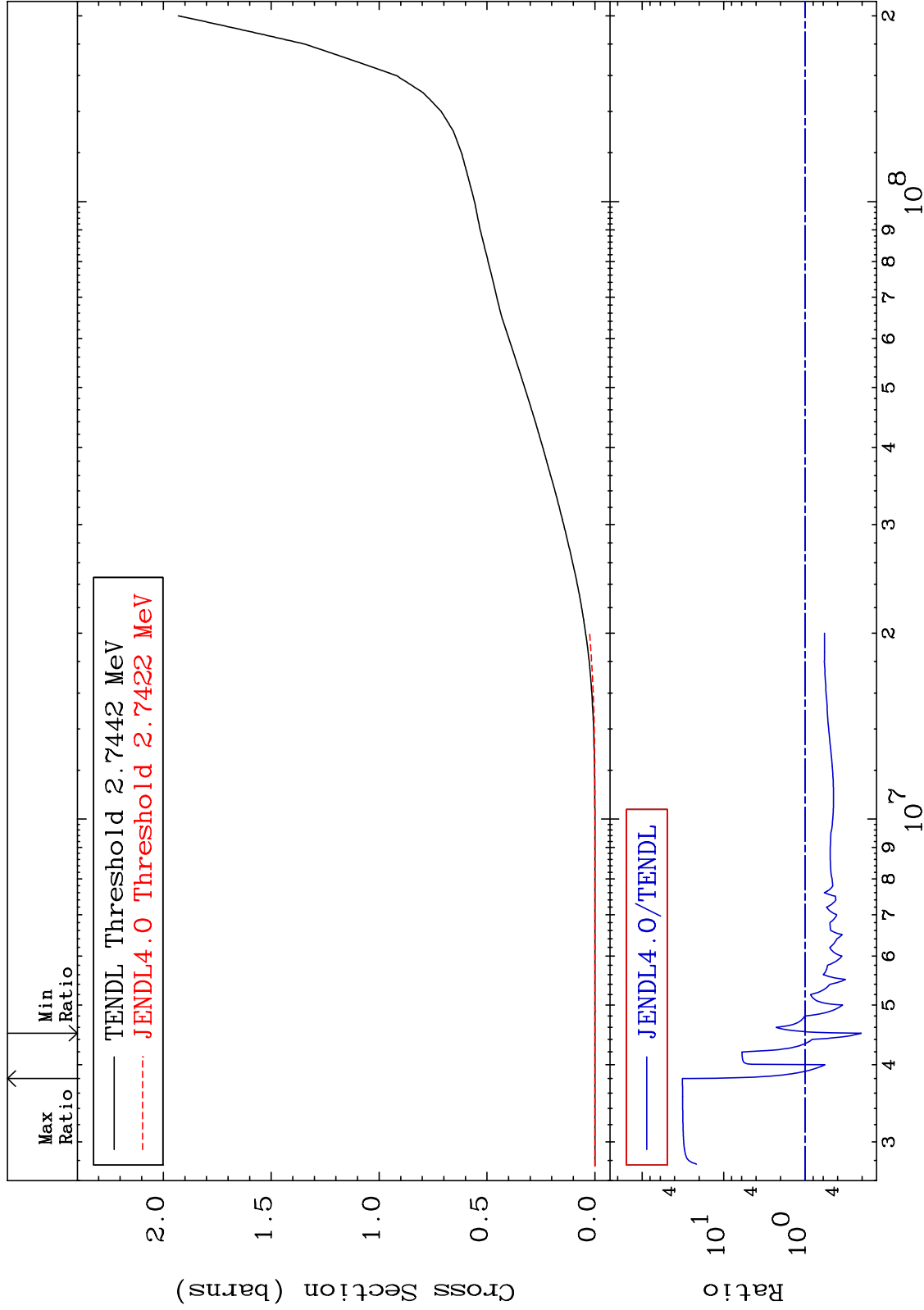




MAT 6249

Hydrogen Production  
Cross Section

62-Sm-152  
-79.54 To 3105. %

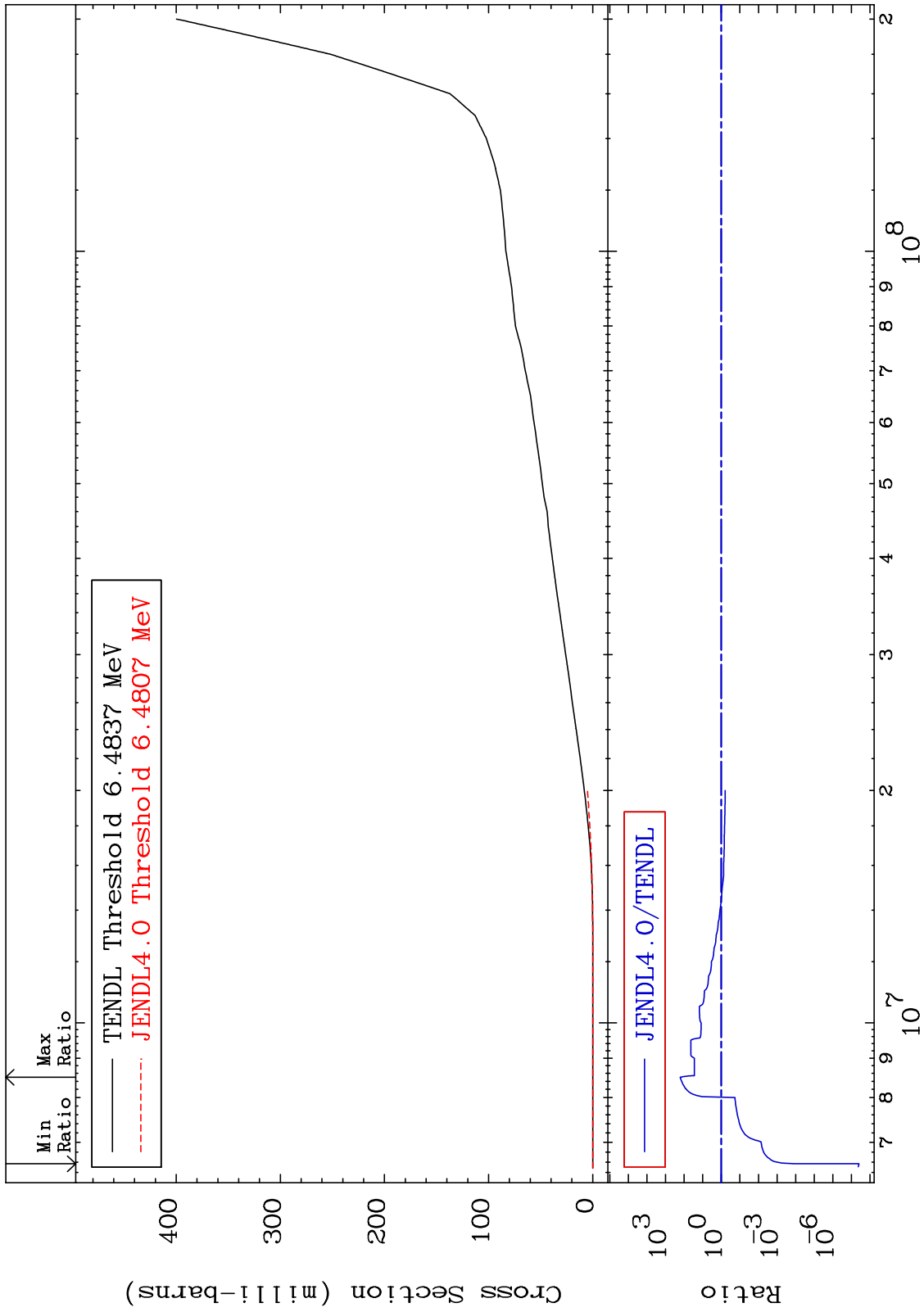


48

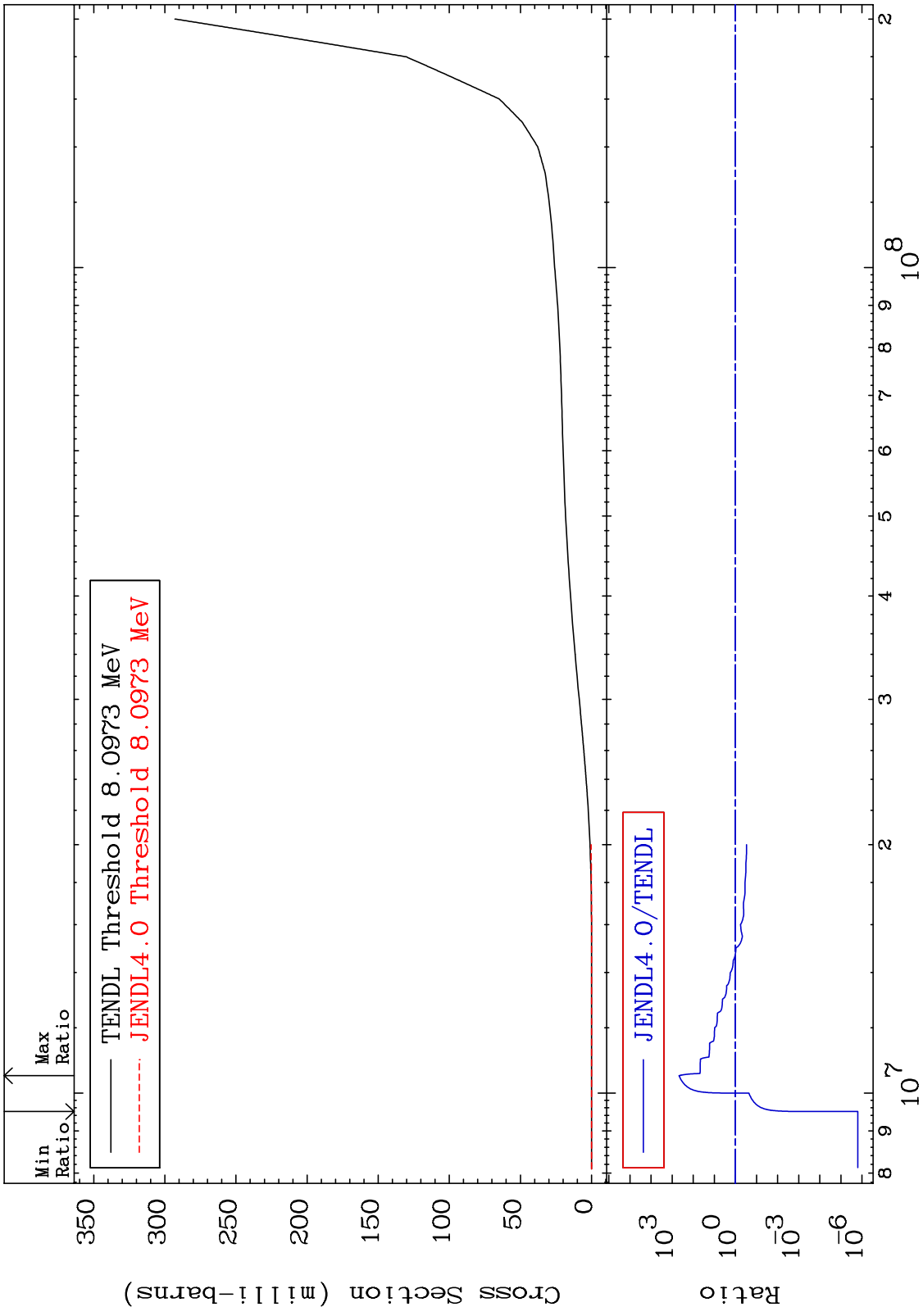
Incident Energy (eV)

62-Sm-152

MAT 6249 Deuterium Production Cross Section 62-Sm-152 -100.0 To 9999. %

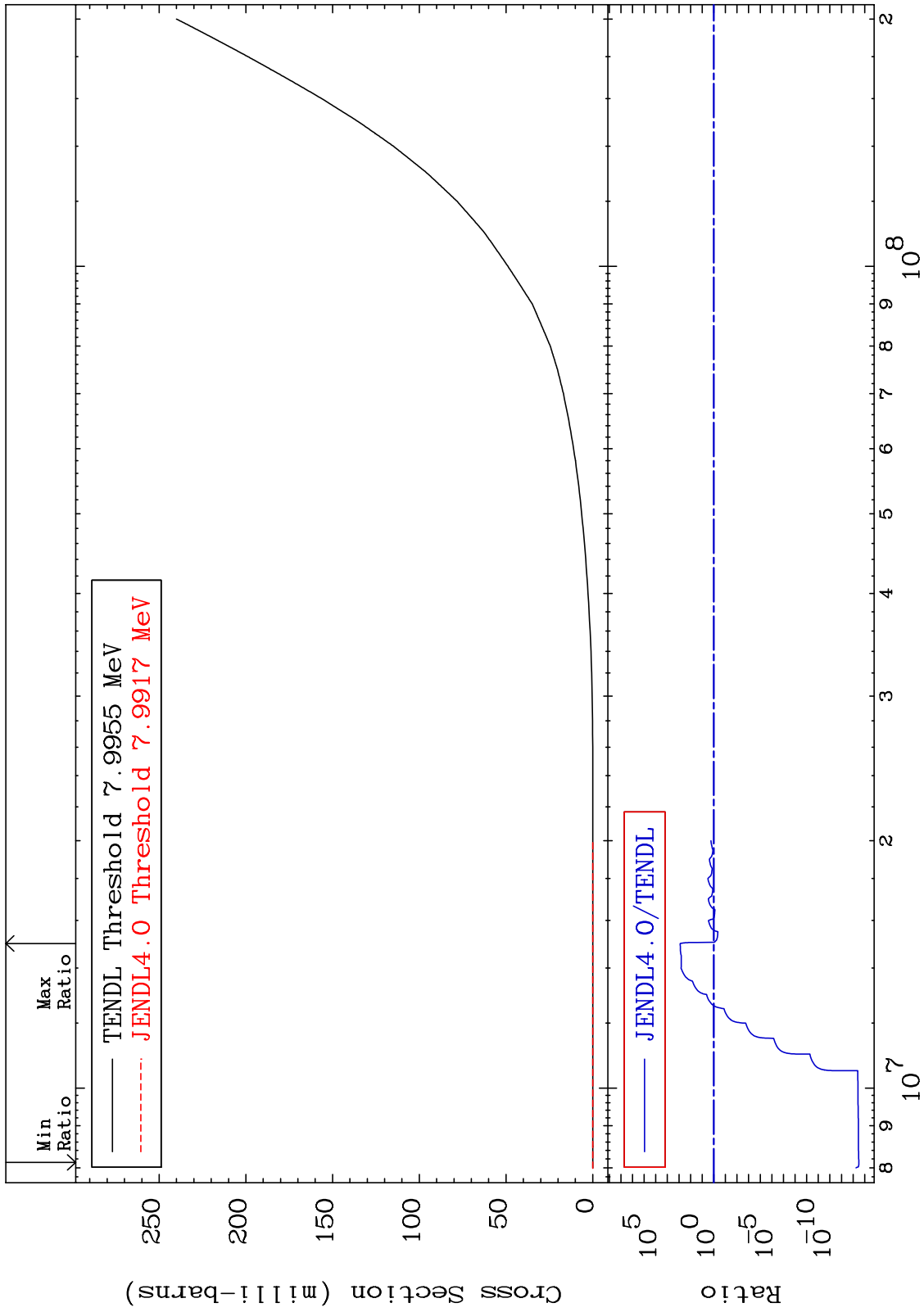


MAT 6249 Tritium Production Cross Section 62-Sm-152  
-100.0 To 9999. %



50 Incident Energy (eV) 62-Sm-152

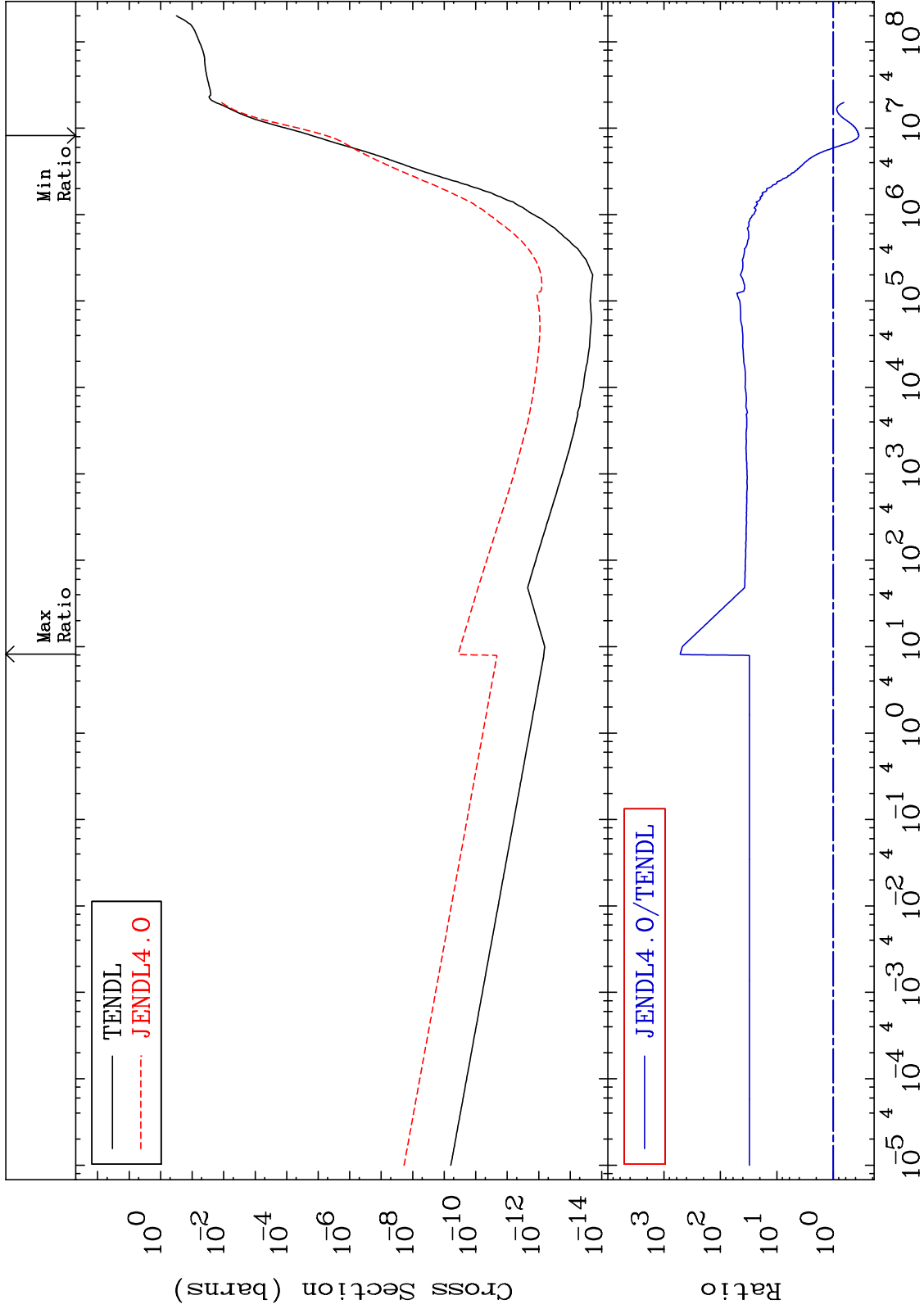
MAT 6249 He-3 Production Cross Section 62-Sm-152  
 -100.0 To 9999. %



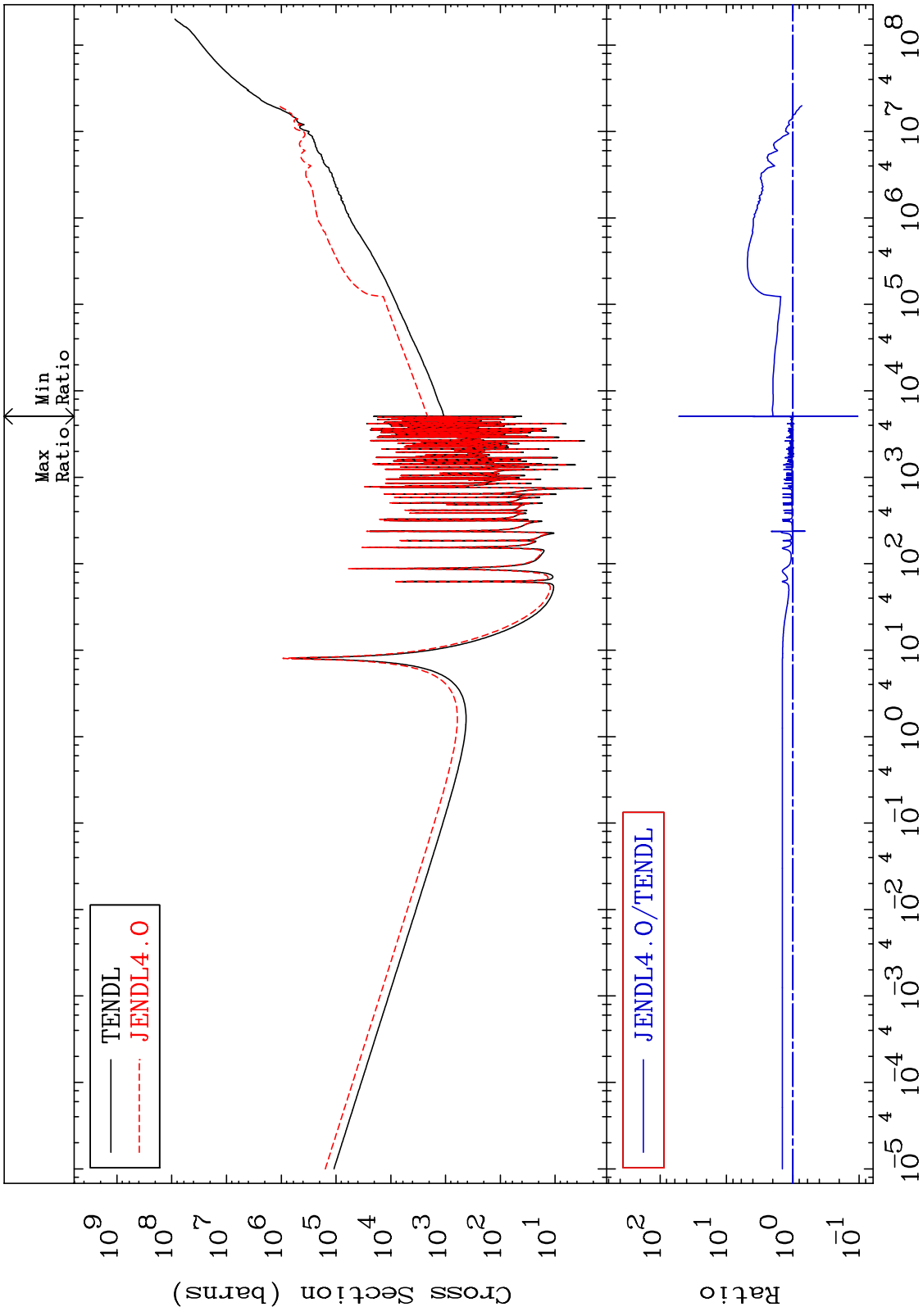
MAT 6249

He-4 Production  
Cross Section

62-Sm-152  
-64.97 To 9999. %



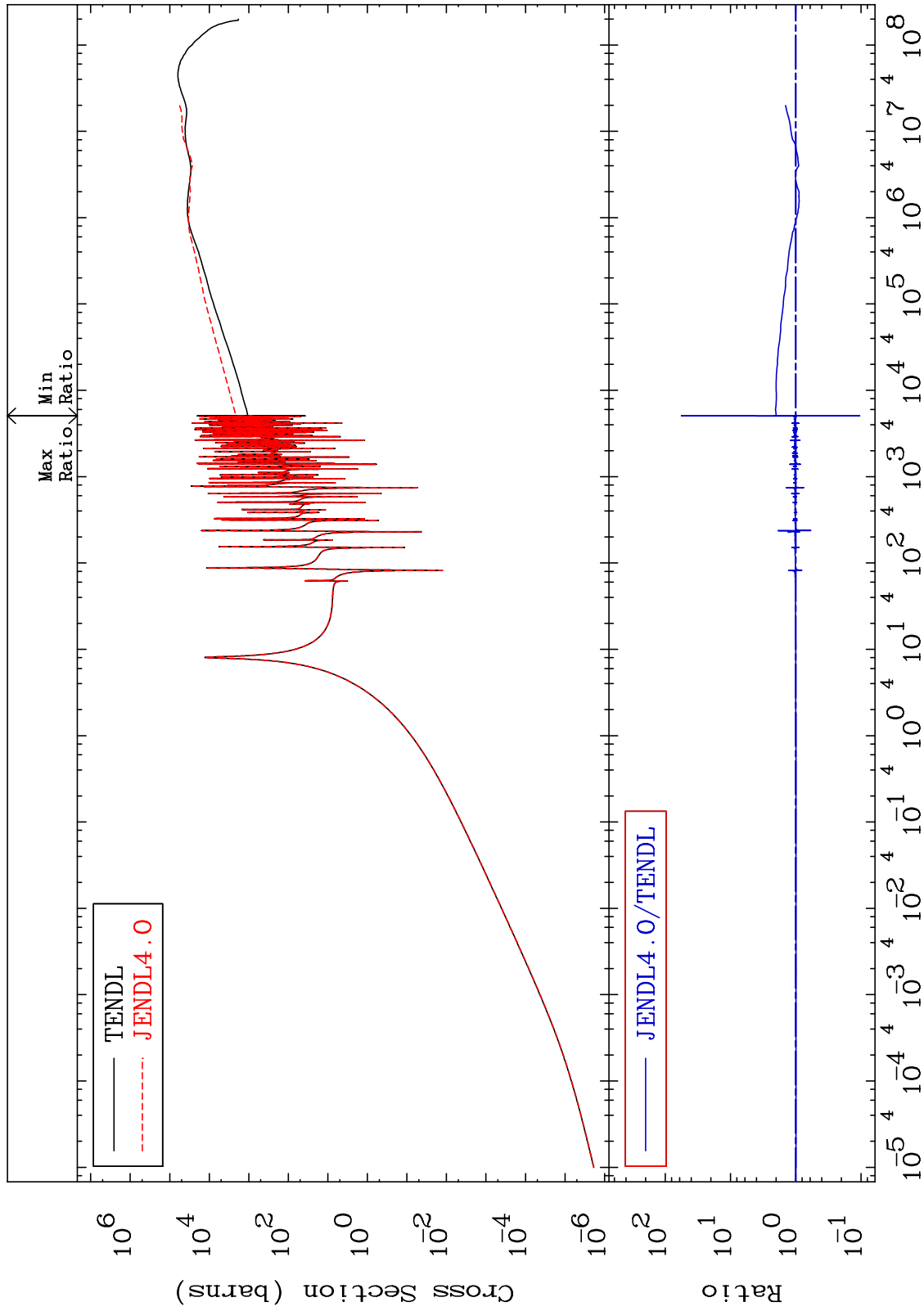
MAT 6249 Kerma total (eV-barns) 62-Sm-152  
 Cross Section -89.54 To 5089. %



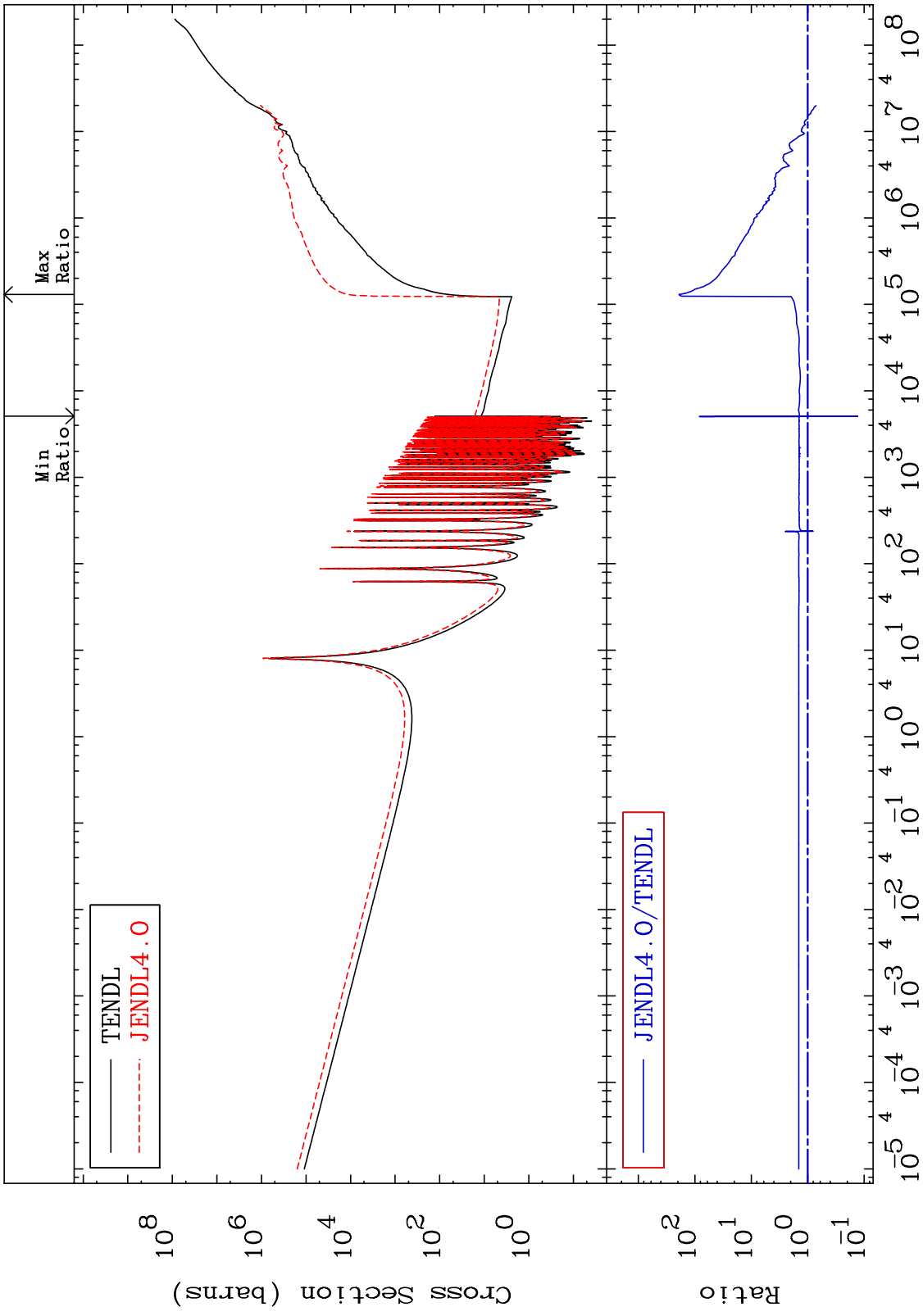
MAT 6249

Kerma elastic  
Cross Section

62-Sm-152  
-89.57 To 5583. %

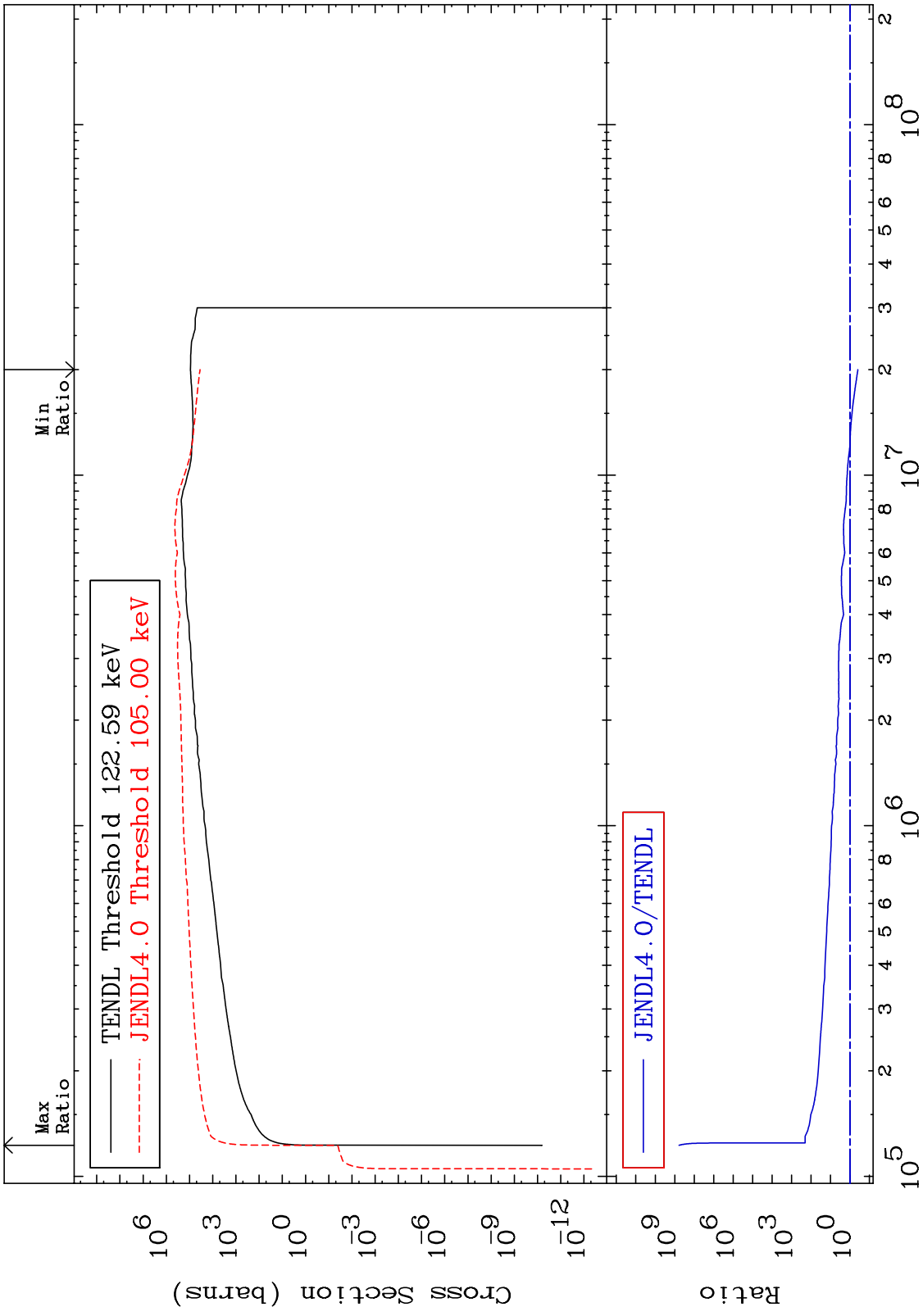


MAT 6249 Kerma non-elastic (all but mt.2) Cross Section 62-Sm-152  
 -87.04 To 9999. %





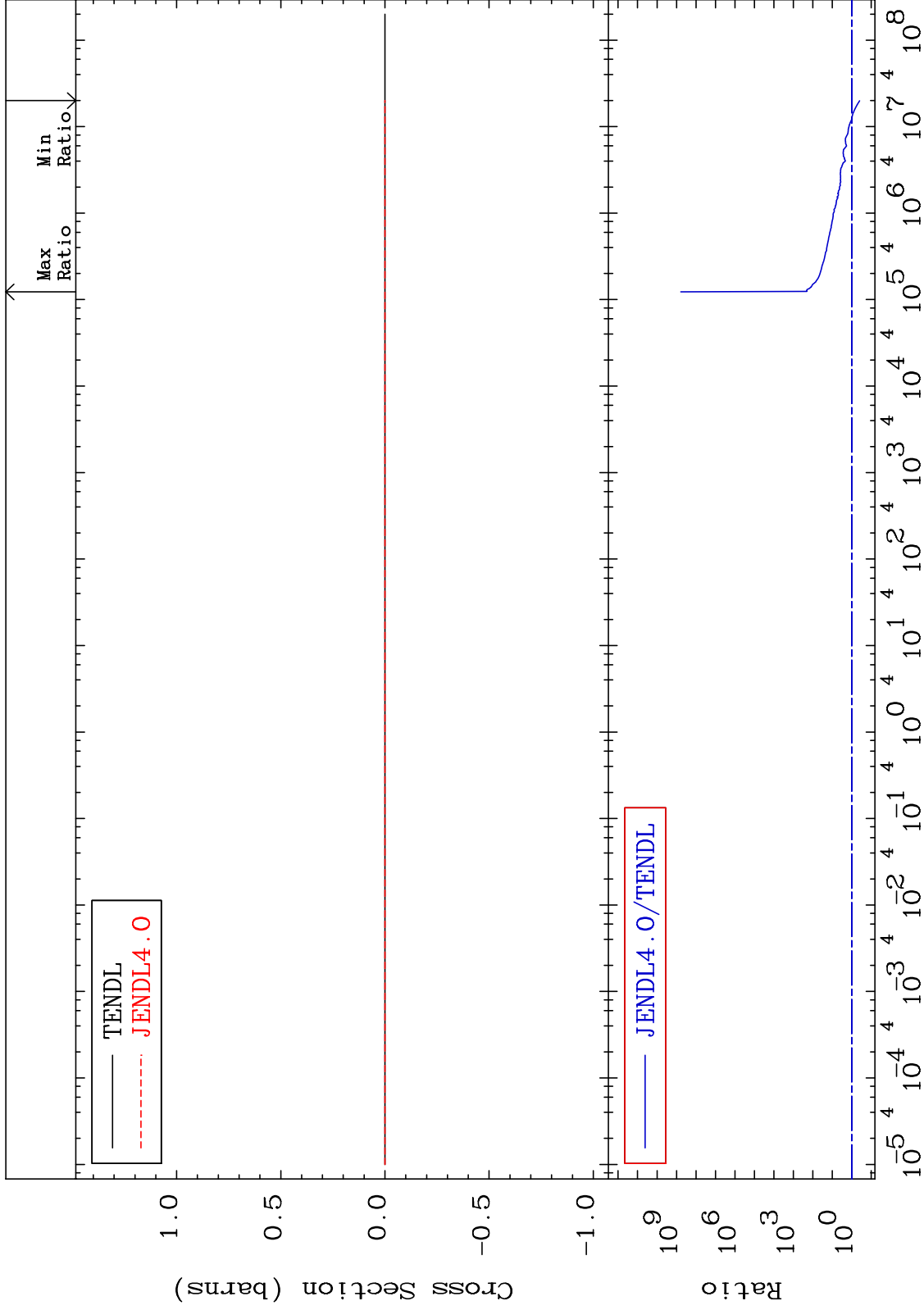
MAT 6249 Kerma inelastic (mt51-91) 62-Sm-152  
 Cross Section -60.94 To 9999. %



MAT 6249

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

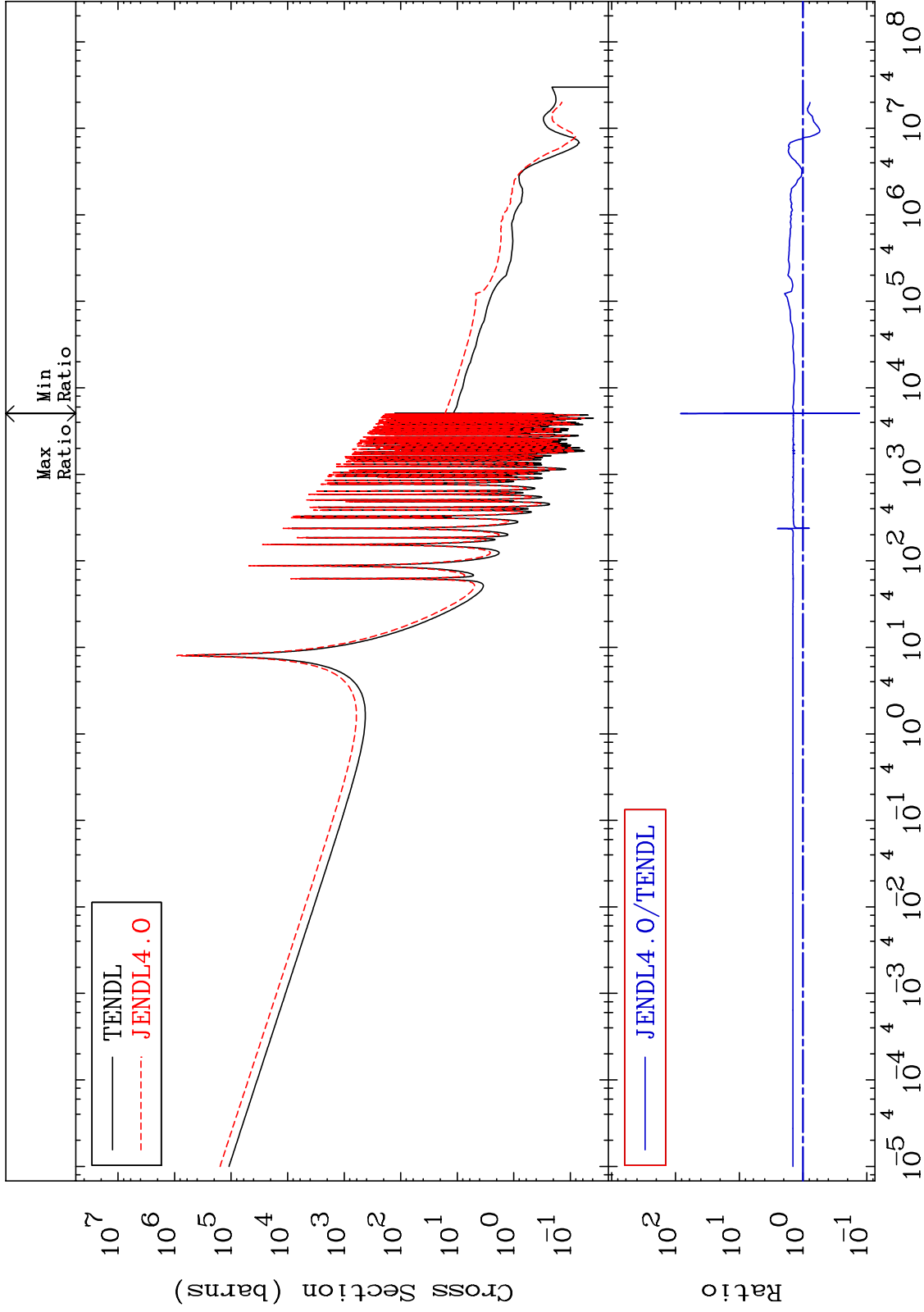
62-Sm-152  
-60.94 To 9999. %



MAT 6249

Kerma capture (mt102)  
Cross Section

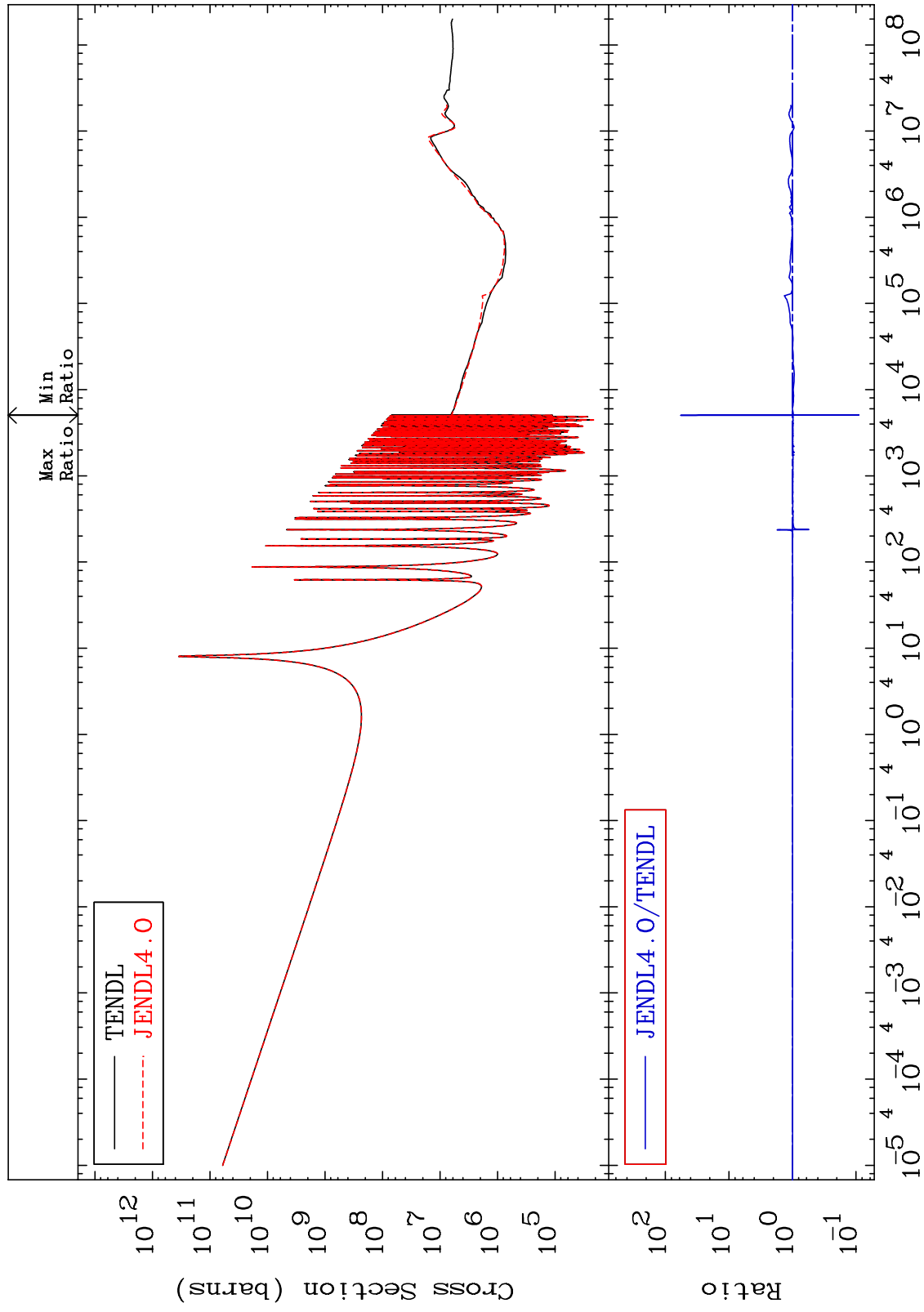
62-Sm-152  
-87.04 To 8139. %



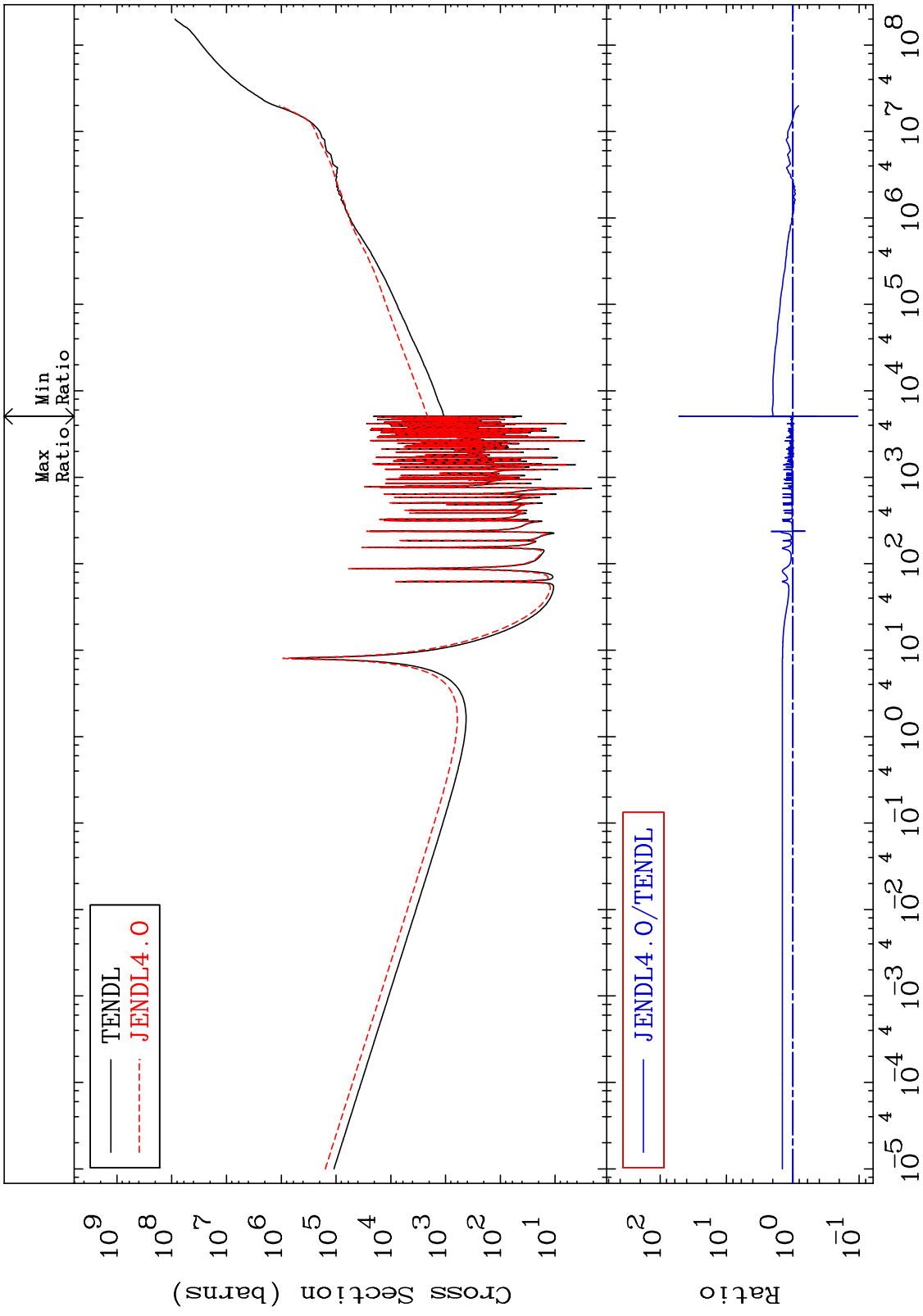
MAT 6249

Total photon (eV-barns)  
Cross Section

62-Sm-152  
-91.05 To 5590. %

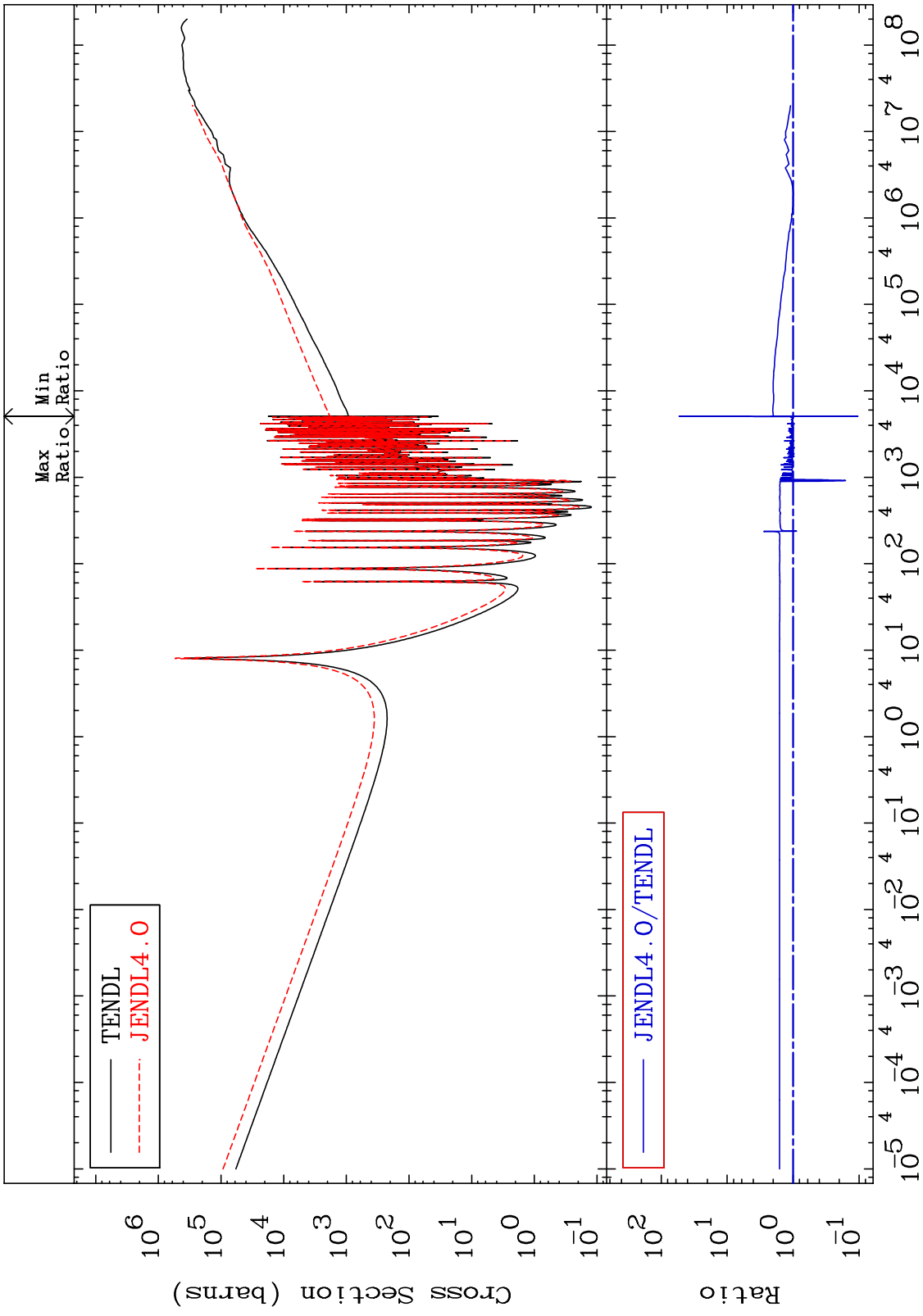


MAT 6249 Total kinematic kerma (high limit) 62-Sm-152  
 Cross Section -89.54 To 5089. %

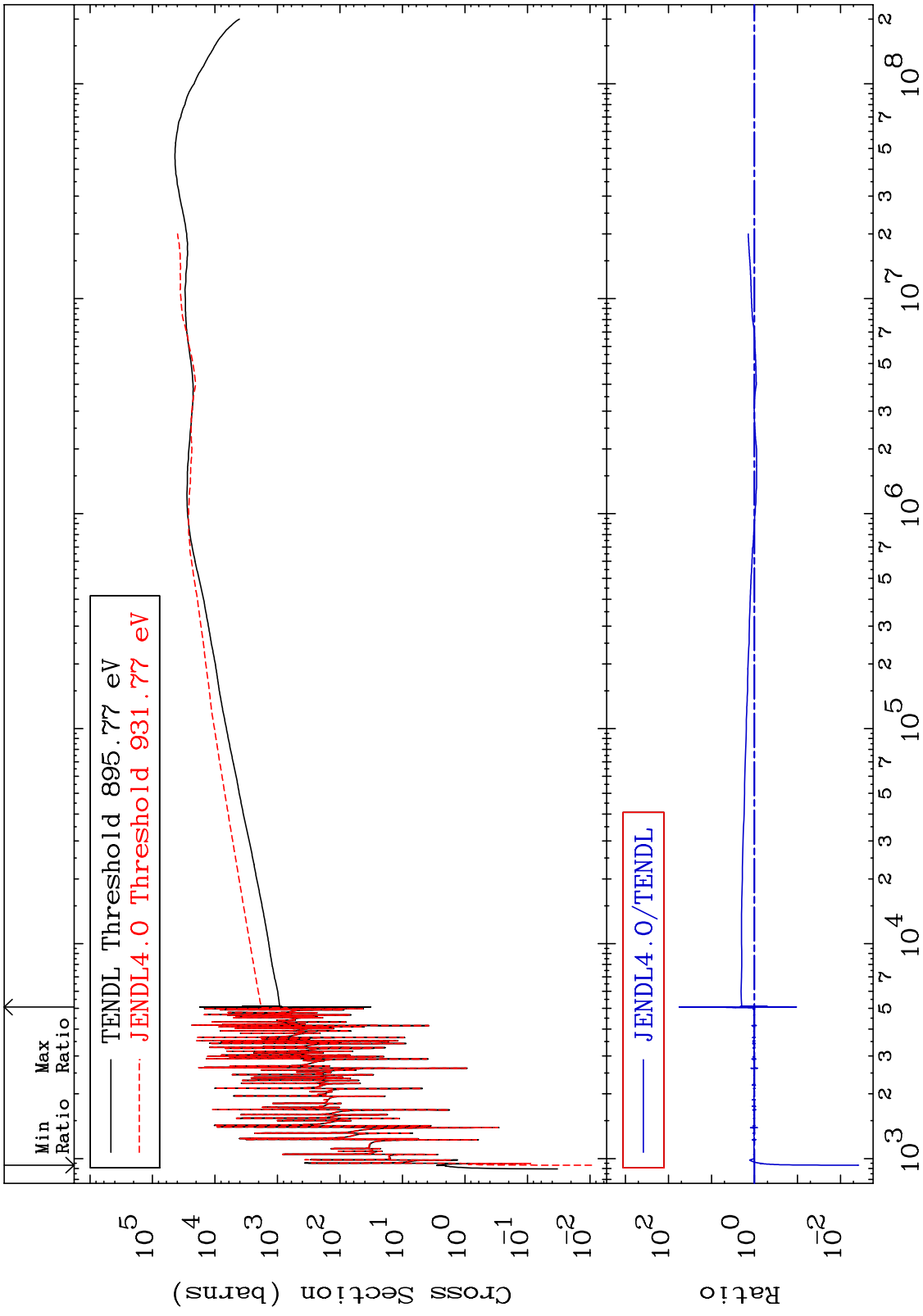


60 Incident Energy (eV) 62-Sm-152

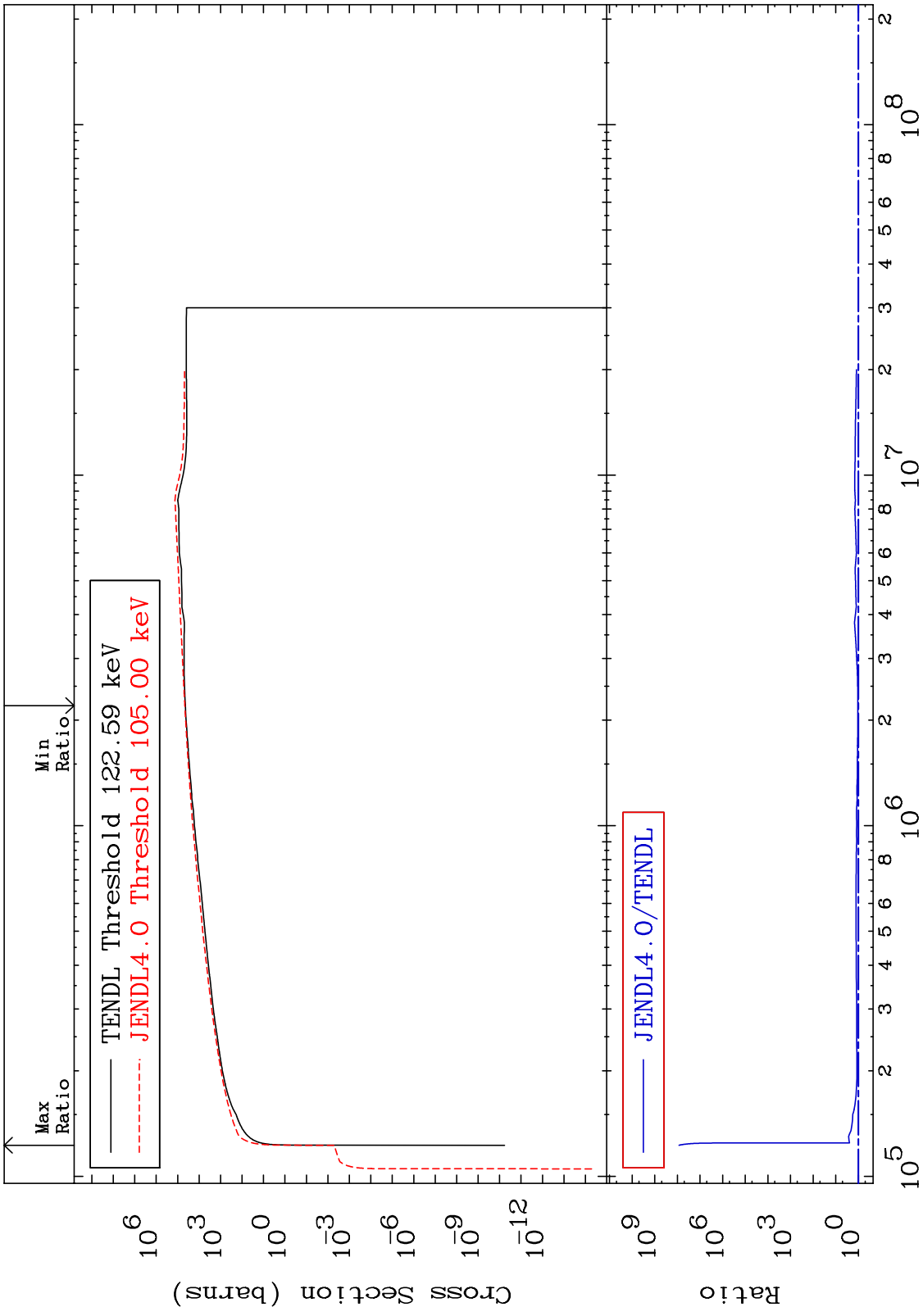
MAT 6249      Dpa total (eV-barns)      62-Sm-152  
 Cross Section      -89.56 To 5260. %



MAT 6249      Dpa elastic (mt2)      62-Sm-152  
 Cross Section      -99.61 To 5572. %

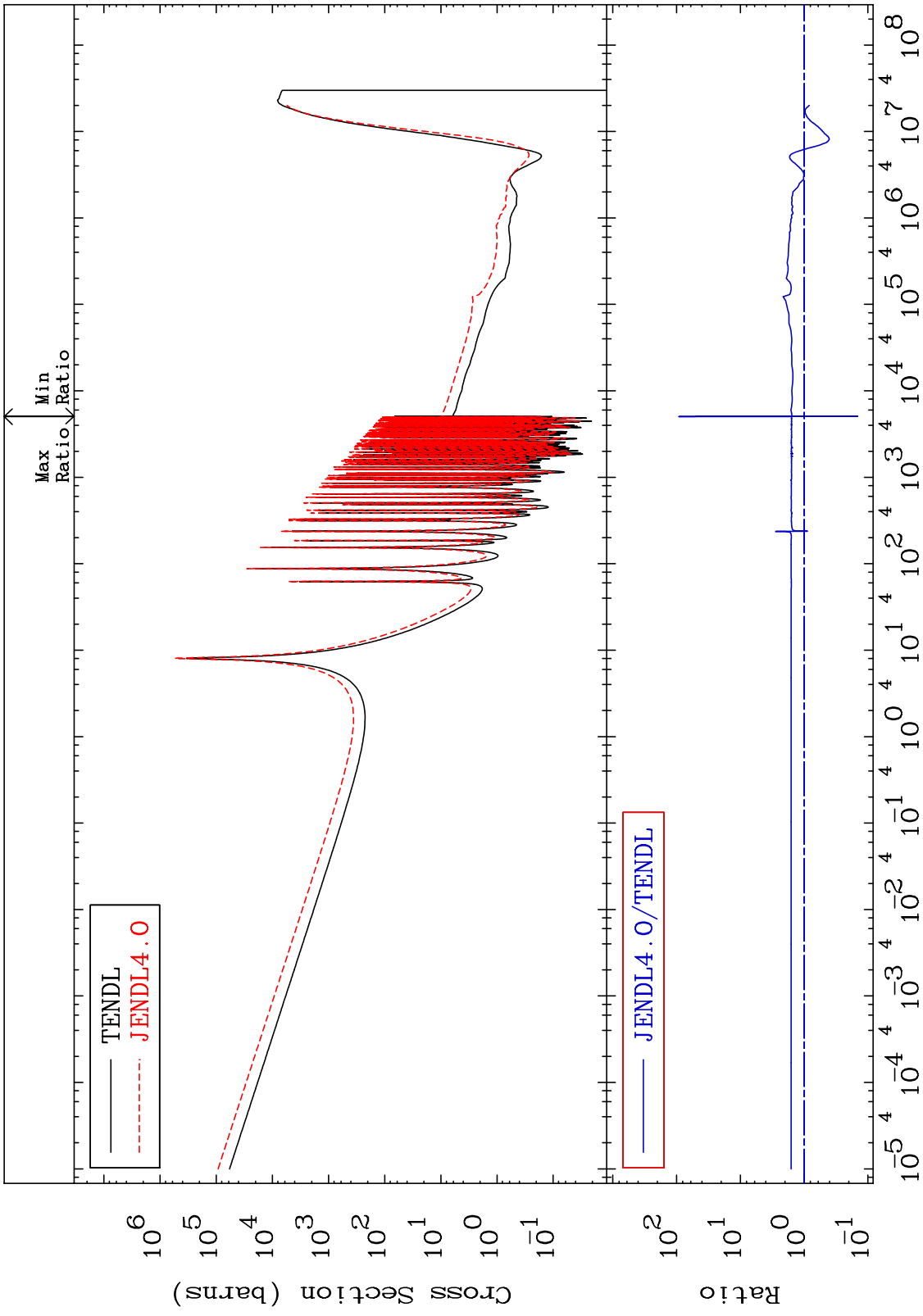


MAT 6249      Dpa inelastic (mt51-91)      62-Sm-152  
 Cross Section      5.435 To 9999. %





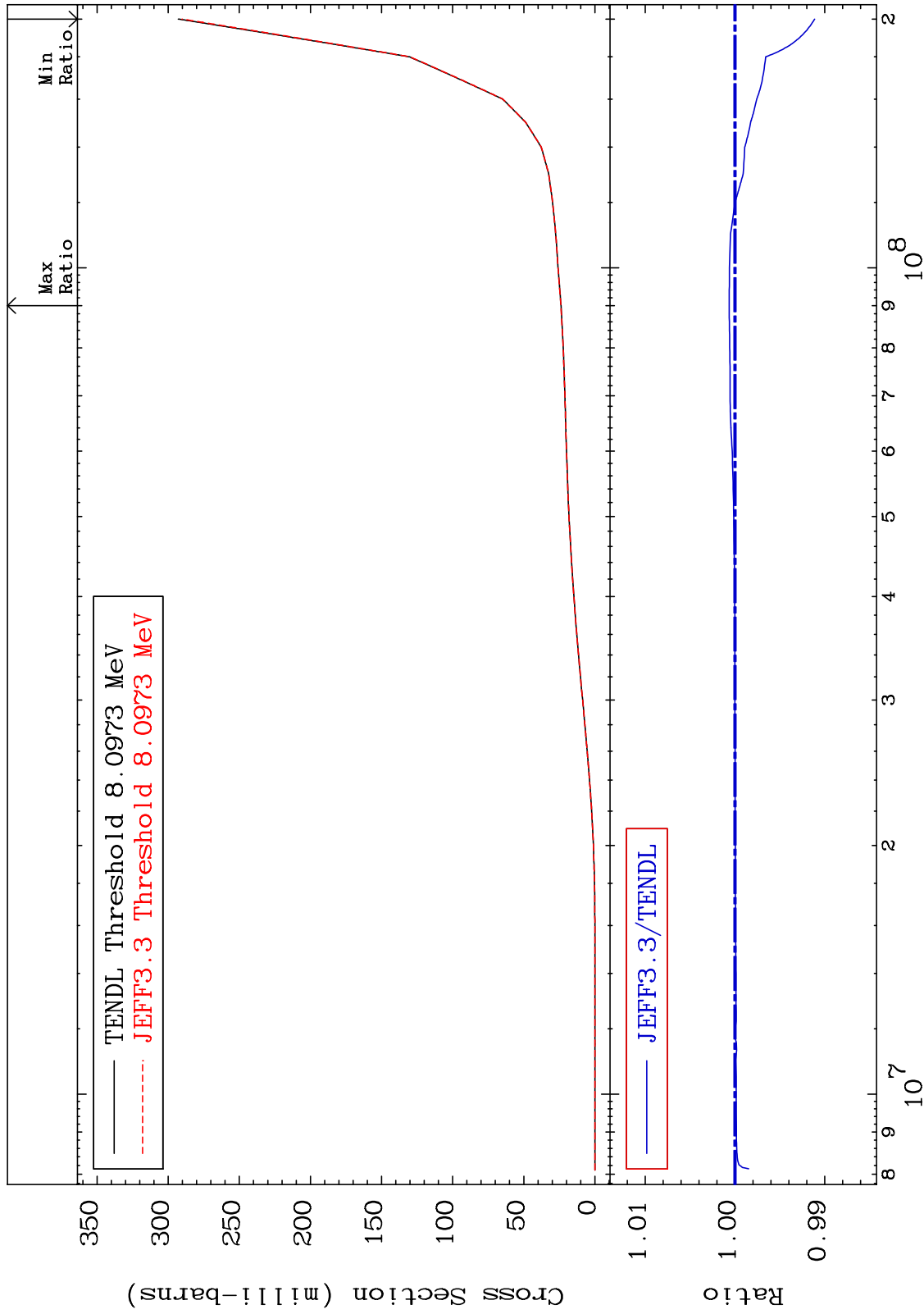
MAT 6249      Dpa disappearance (mt102 -120)      62-Sm-152  
 Cross Section      -85.61 To 9048. %



MAT 6249

Tritium Production  
Cross Section

62-Sm-152  
-0.887 To 0.065 %



65

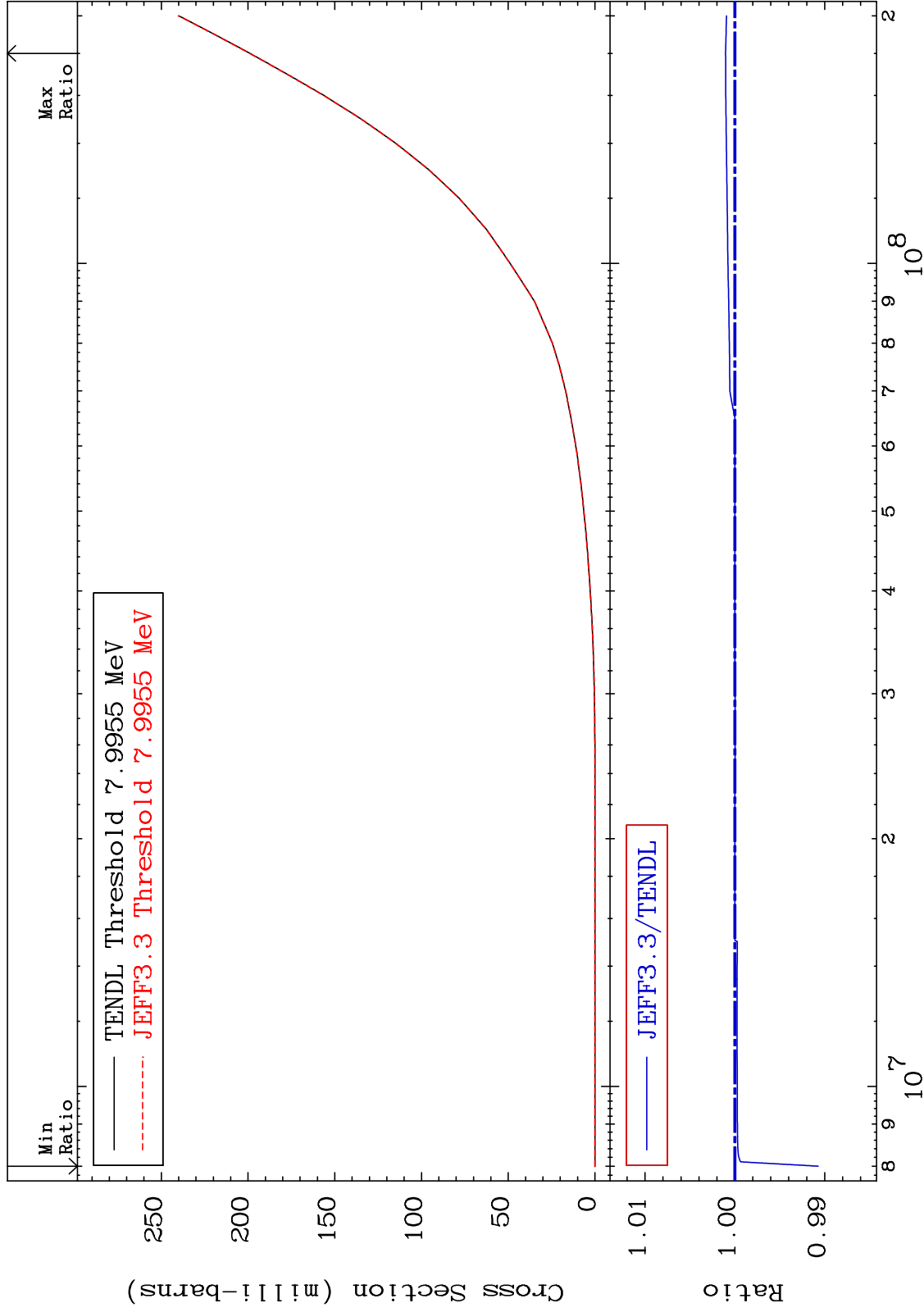
Incident Energy (eV)

62-Sm-152

MAT 6249

He-3 Production  
Cross Section

62-Sm-152  
-0.928 To 0.104 %



66

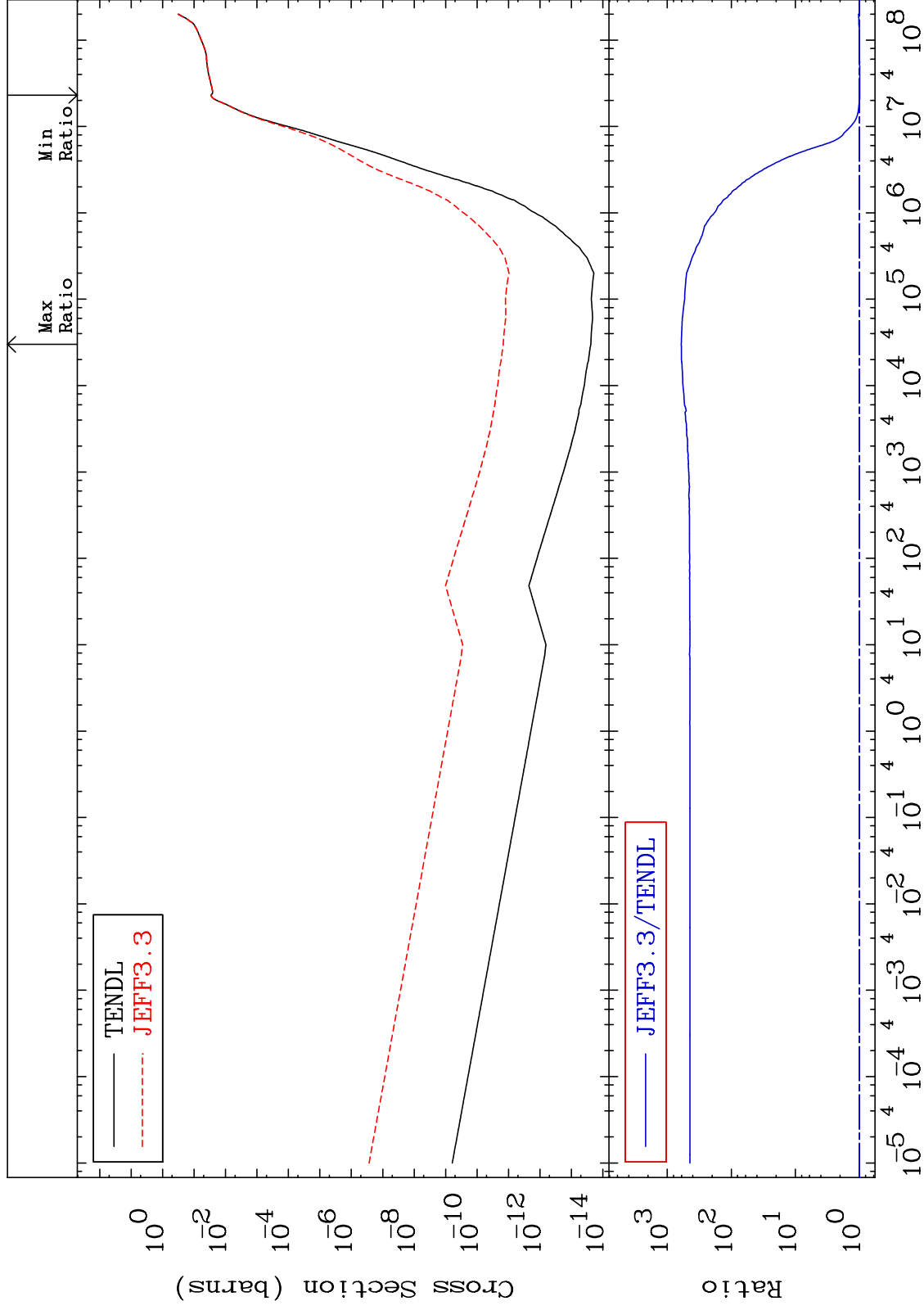
Incident Energy (eV)

62-Sm-152

MAT 6249

He-4 Production  
Cross Section

62-Sm-152  
-1.158 To 9999. %

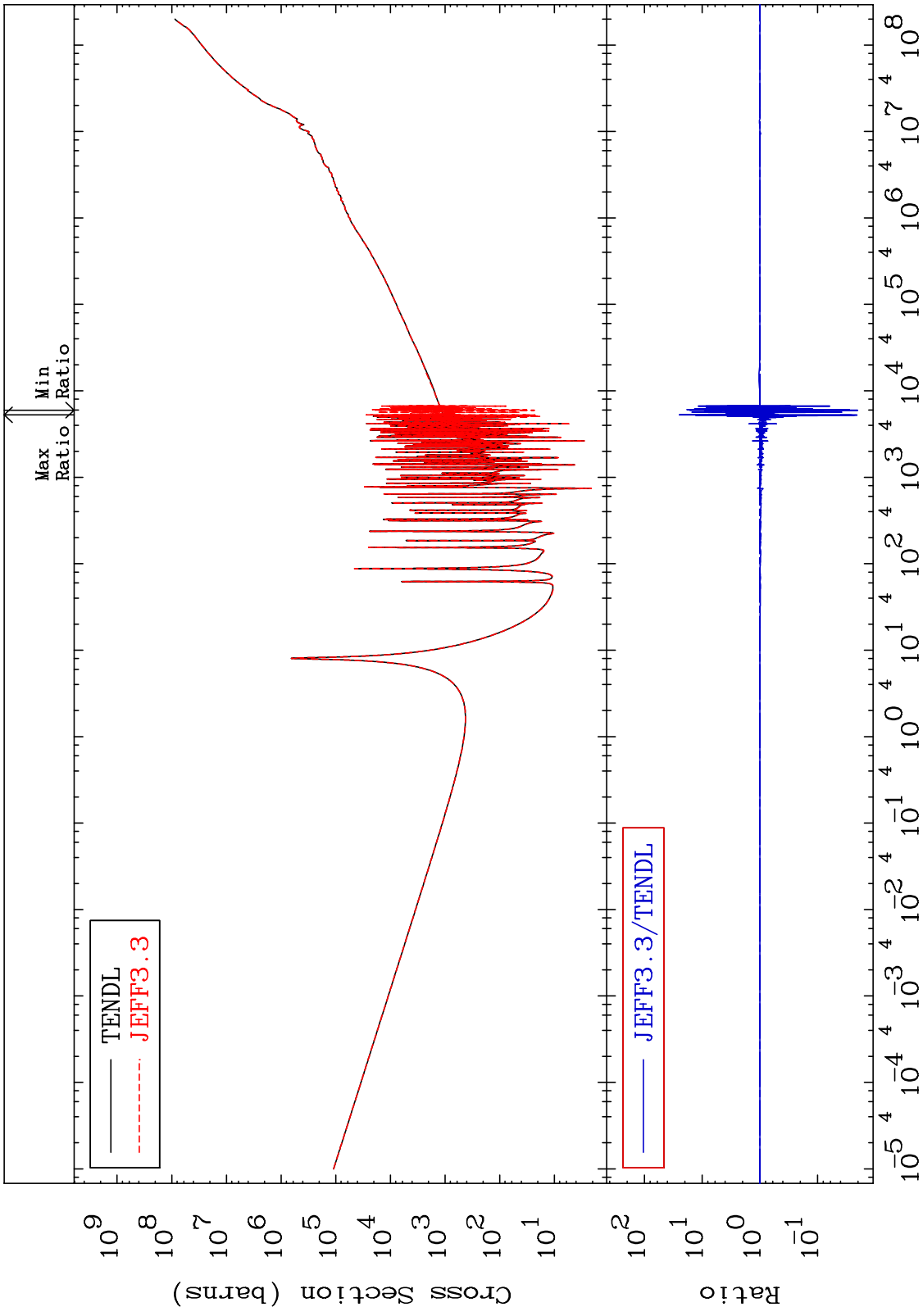


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Incident Energy (eV)

62-Sm-152

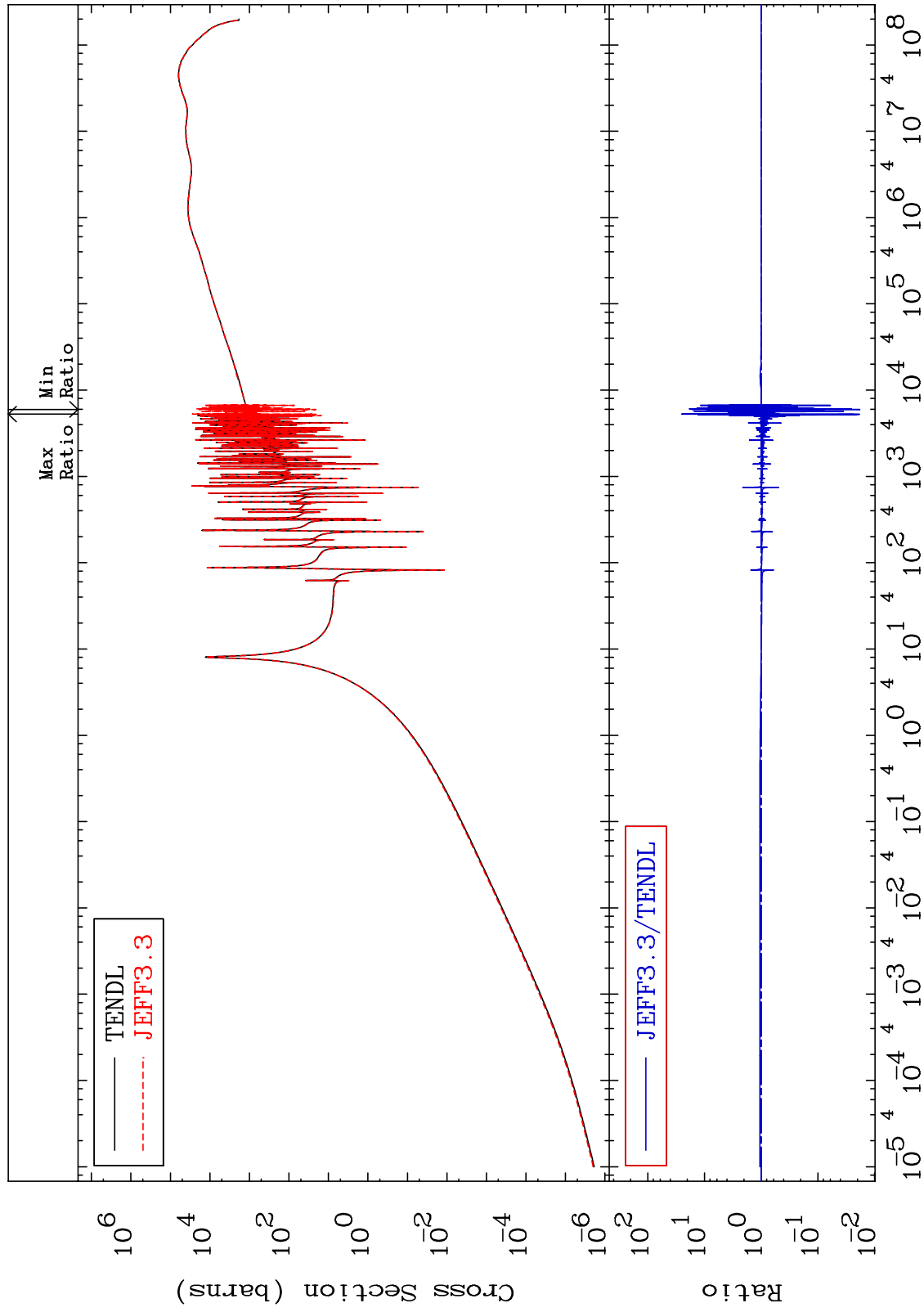
MAT 6249 Kerma total (eV-barns) 62-Sm-152  
 Cross Section -97.99 To 2421. %



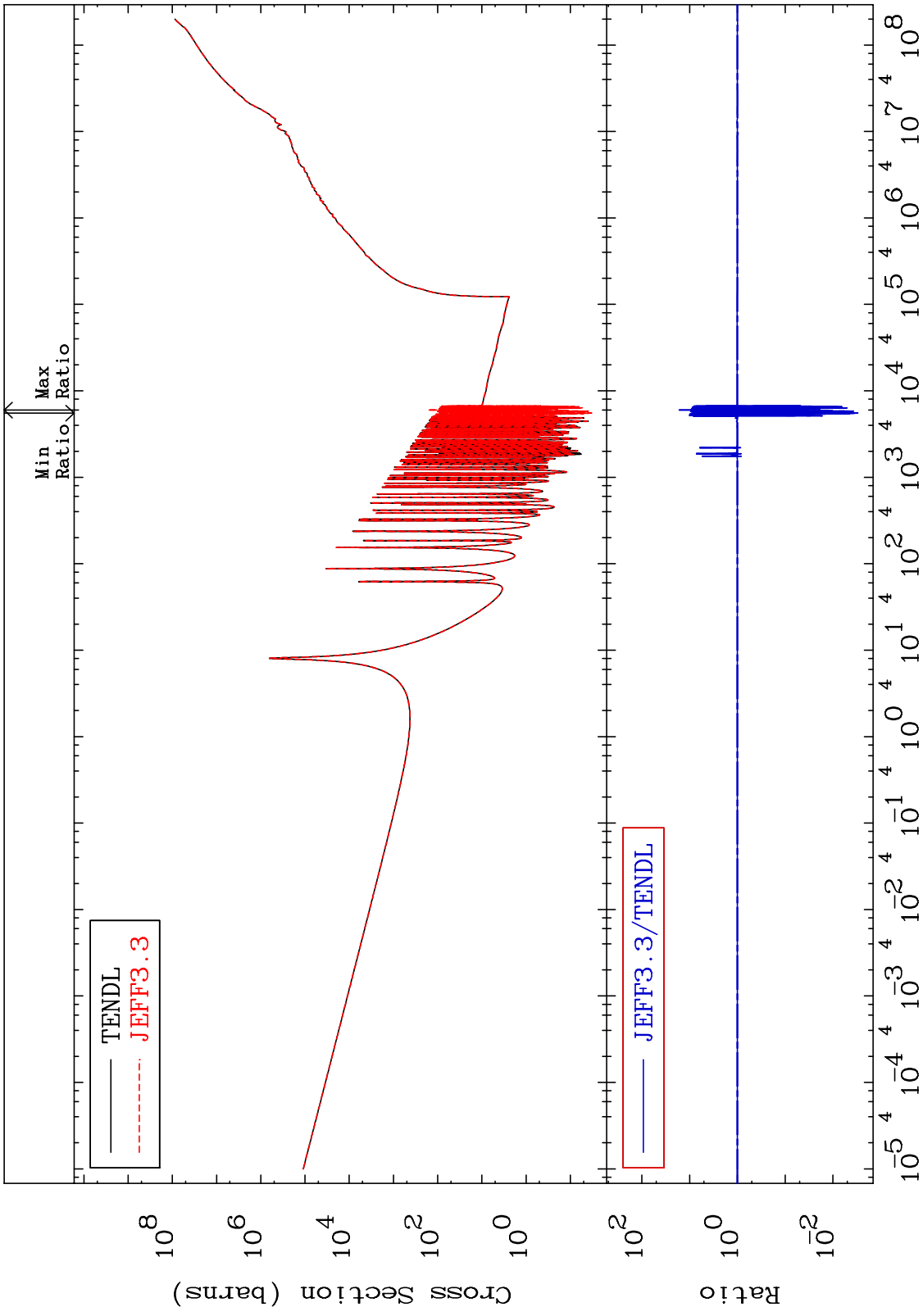
MAT 6249

Kerma elastic  
Cross Section

62-Sm-152  
-98.18 To 2443. %

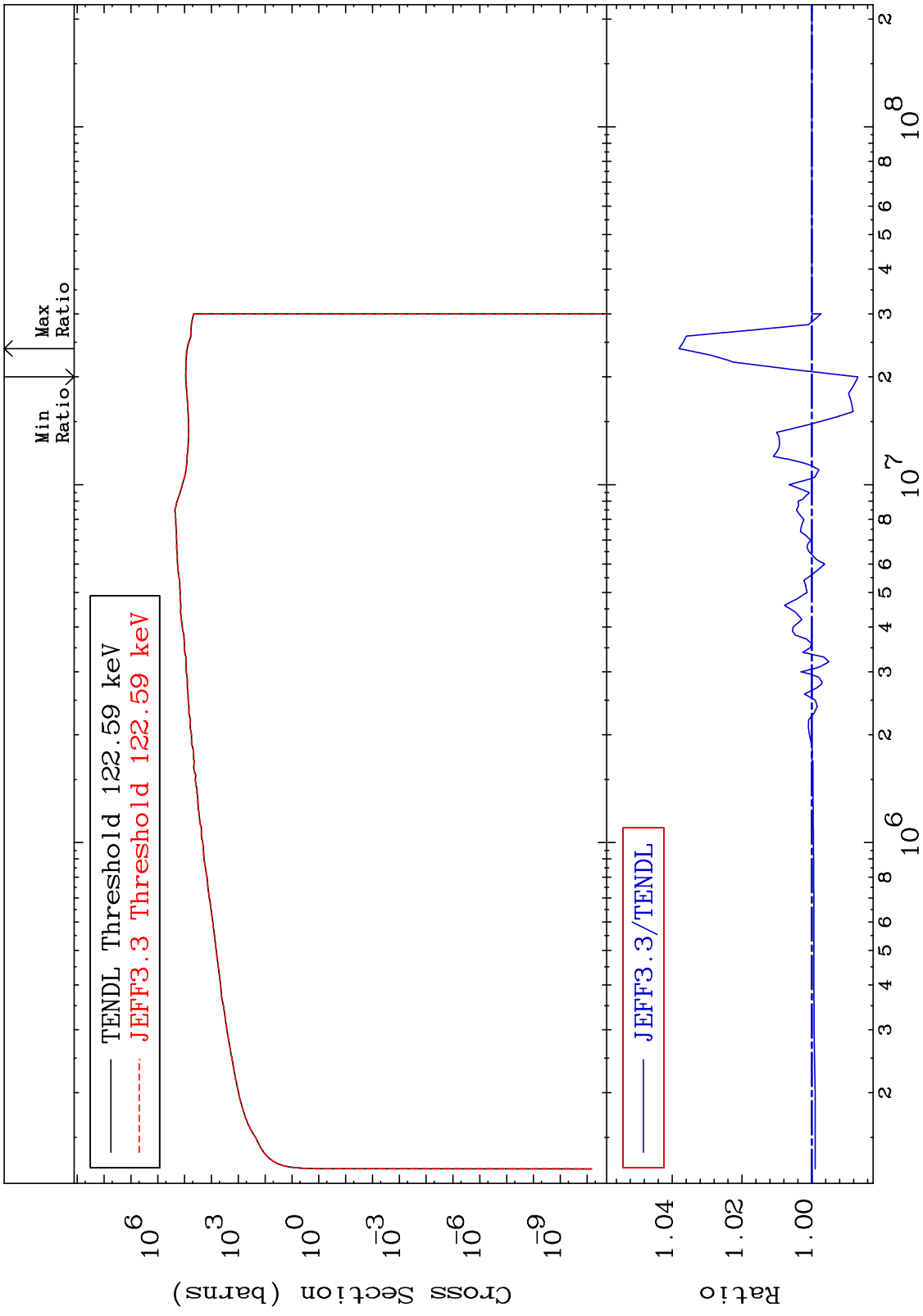


MAT 6249 Kerma non-elastic (all but mt.2) Cross Section 62-Sm-152  
 -99.70 To 1564. %



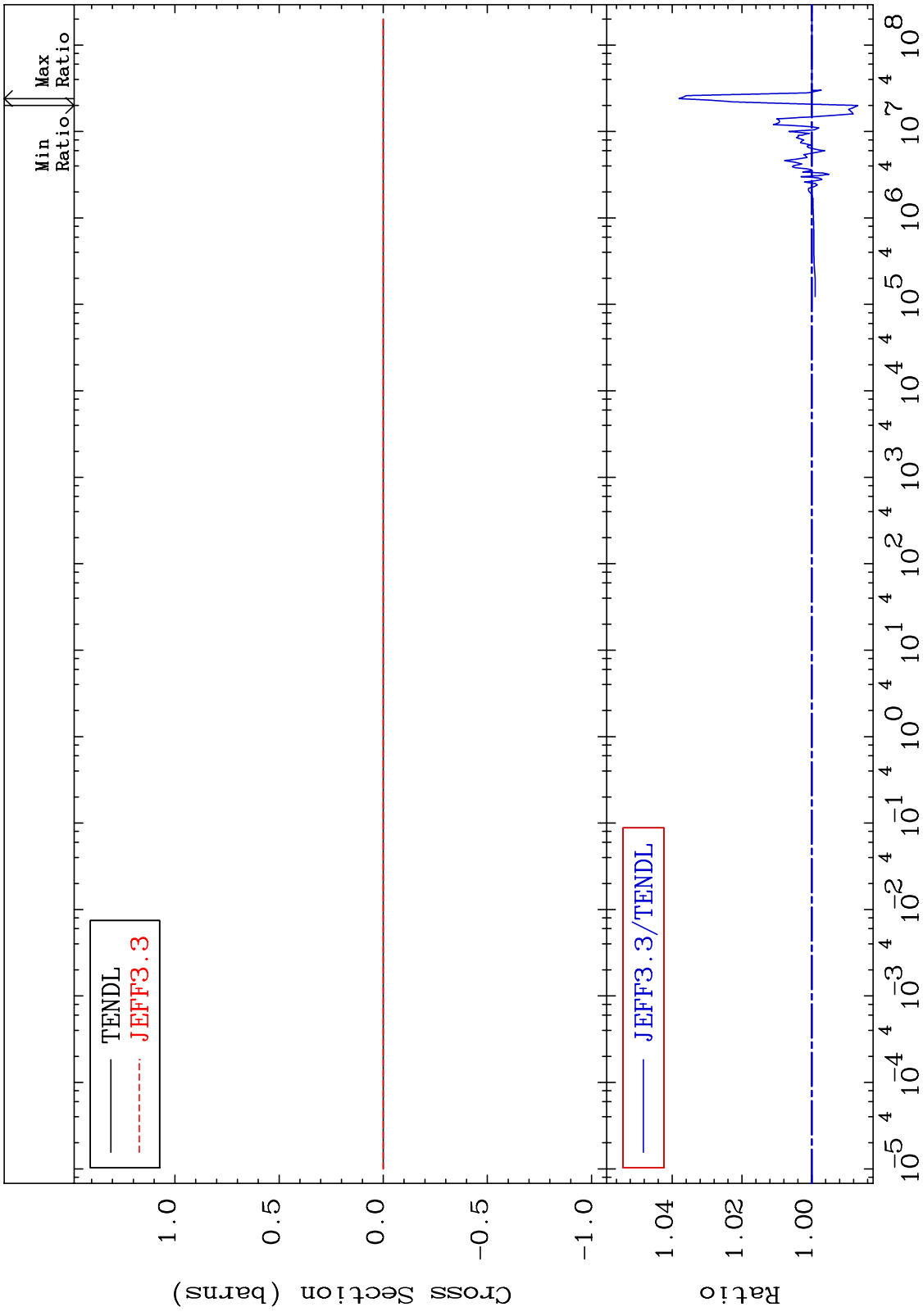
70 Incident Energy (eV) 62-Sm-152

MAT 6249 Kerma inelastic (mt51-91) 62-Sm-152  
 Cross Section -1.320 To 3.804 %





MAT 6249 Kerma fission (mt18 or mt19-20-21-38) 62-Sm-152  
 Cross Section -1.320 To 3.804 %

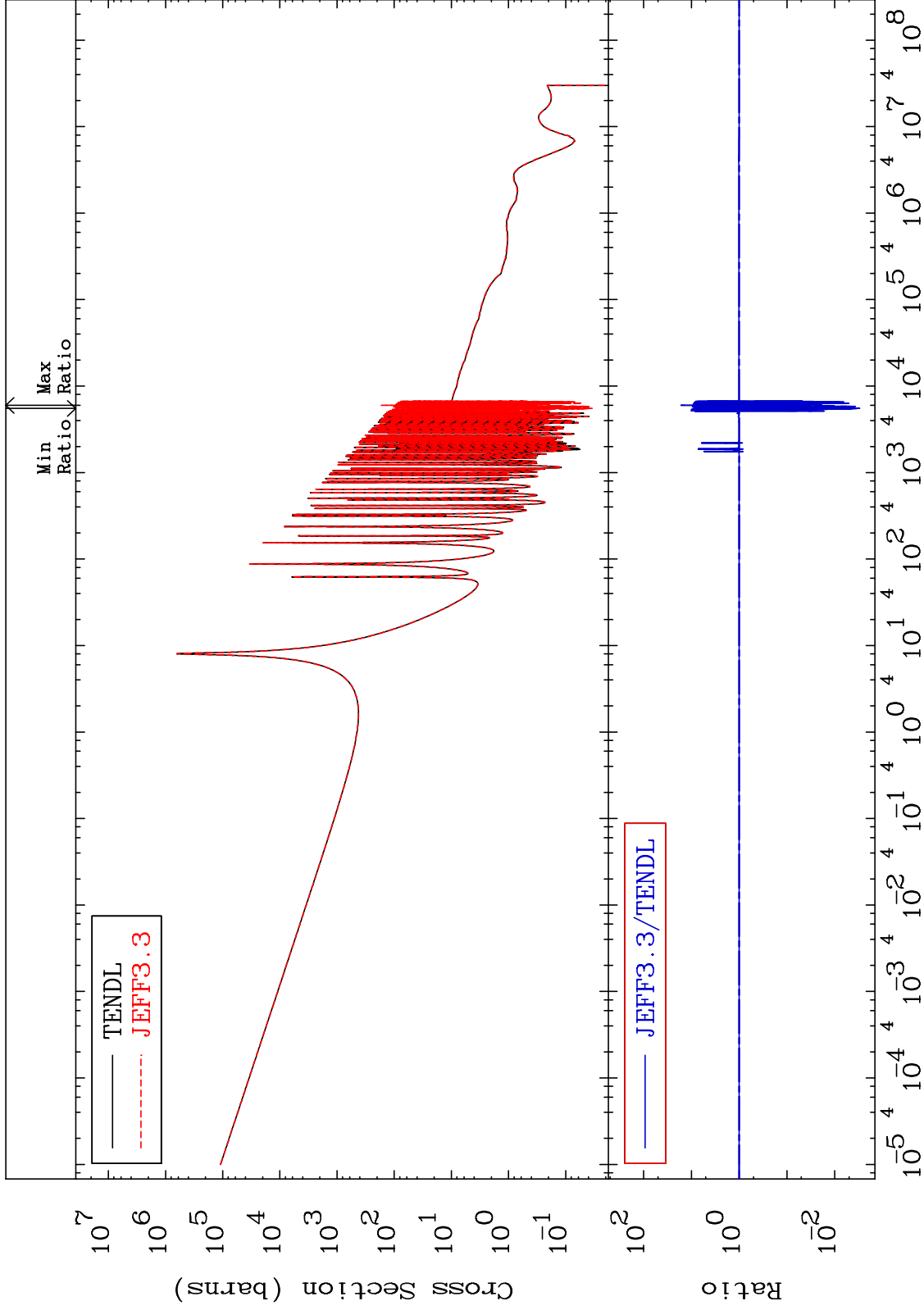


72 Incident Energy (eV) 62-Sm-152

MAT 6249

Kerma capture (mt102)  
Cross Section

62-Sm-152  
-99.70 To 1564. %



73

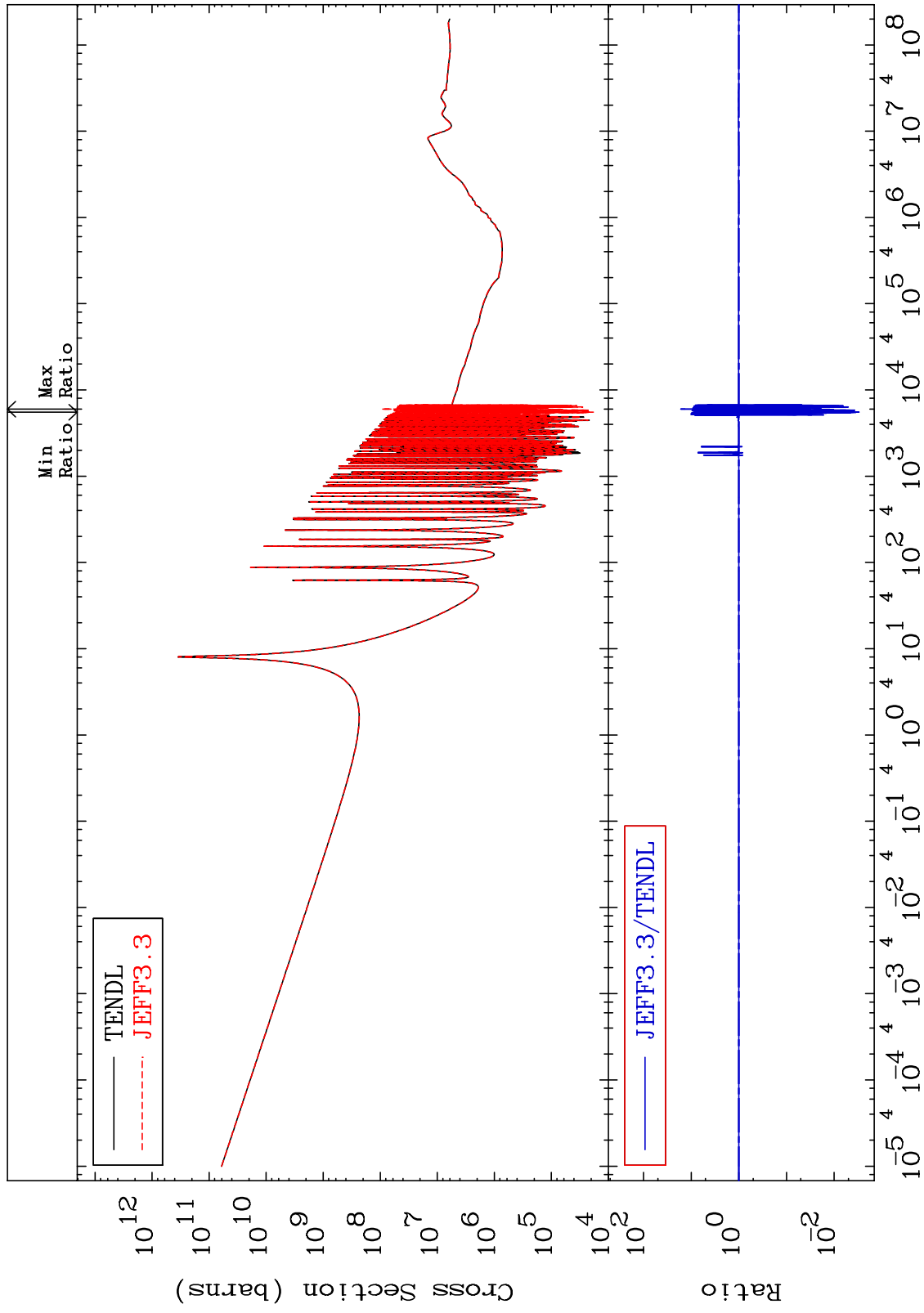
Incident Energy (eV)

62-Sm-152

MAT 6249

Total photon (eV-barns)  
Cross Section

62-Sm-152  
-99.70 To 1563. %

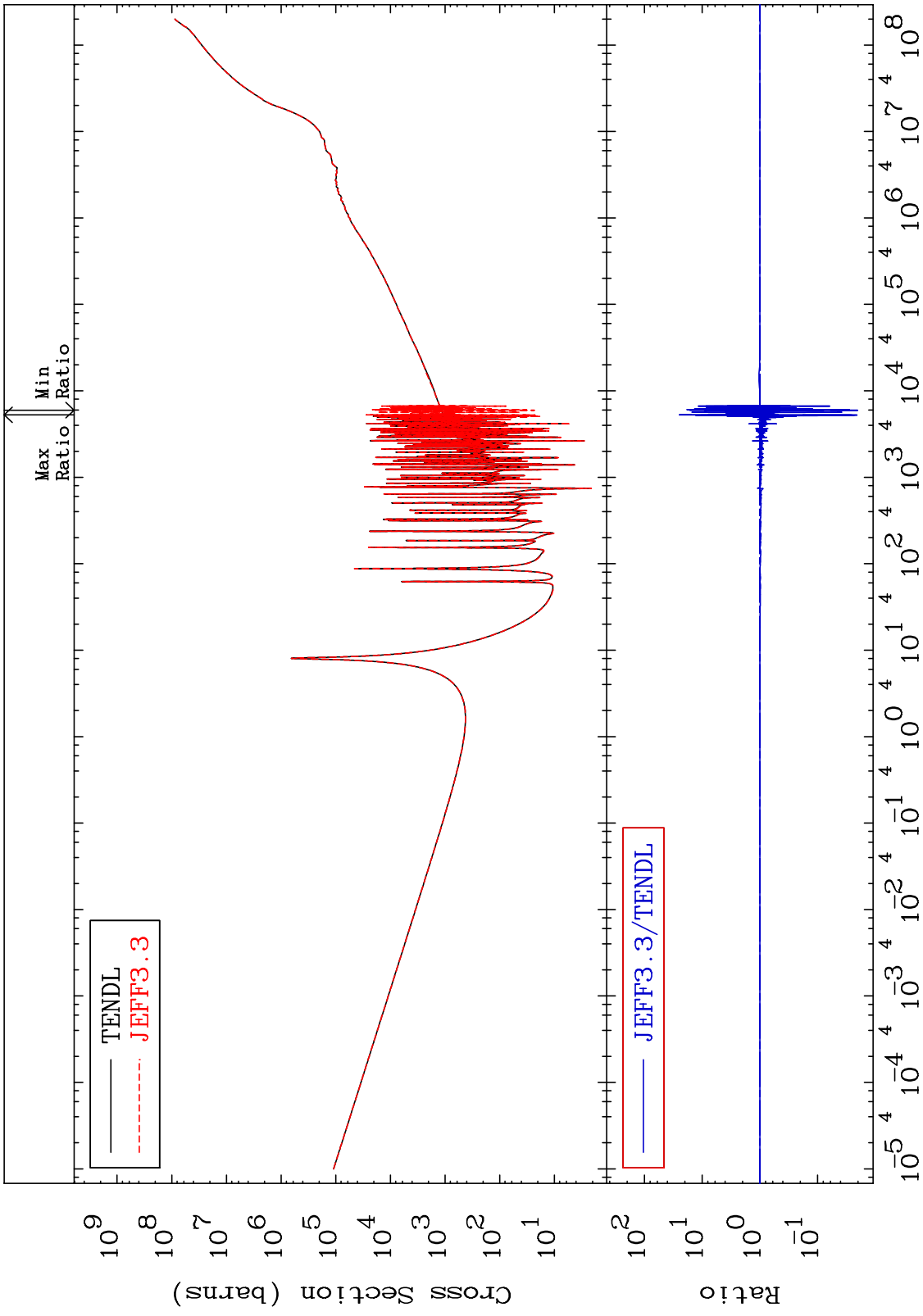


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Incident Energy (eV)

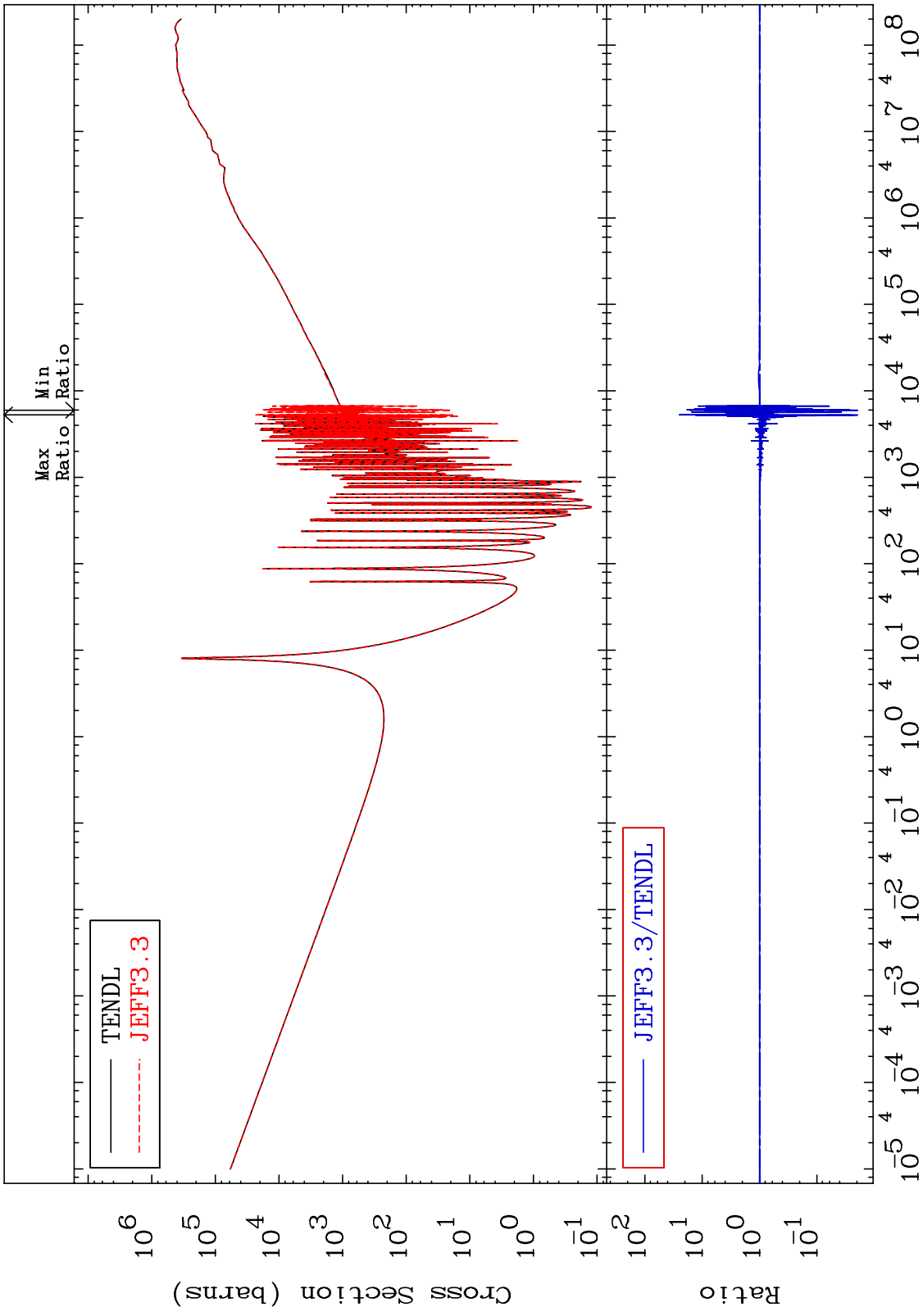
62-Sm-152

MAT 6249      Total kinematic kerma (high limit)      62-Sm-152  
Cross Section      -97.99 To 2421. %



75      Incident Energy (eV)      62-Sm-152

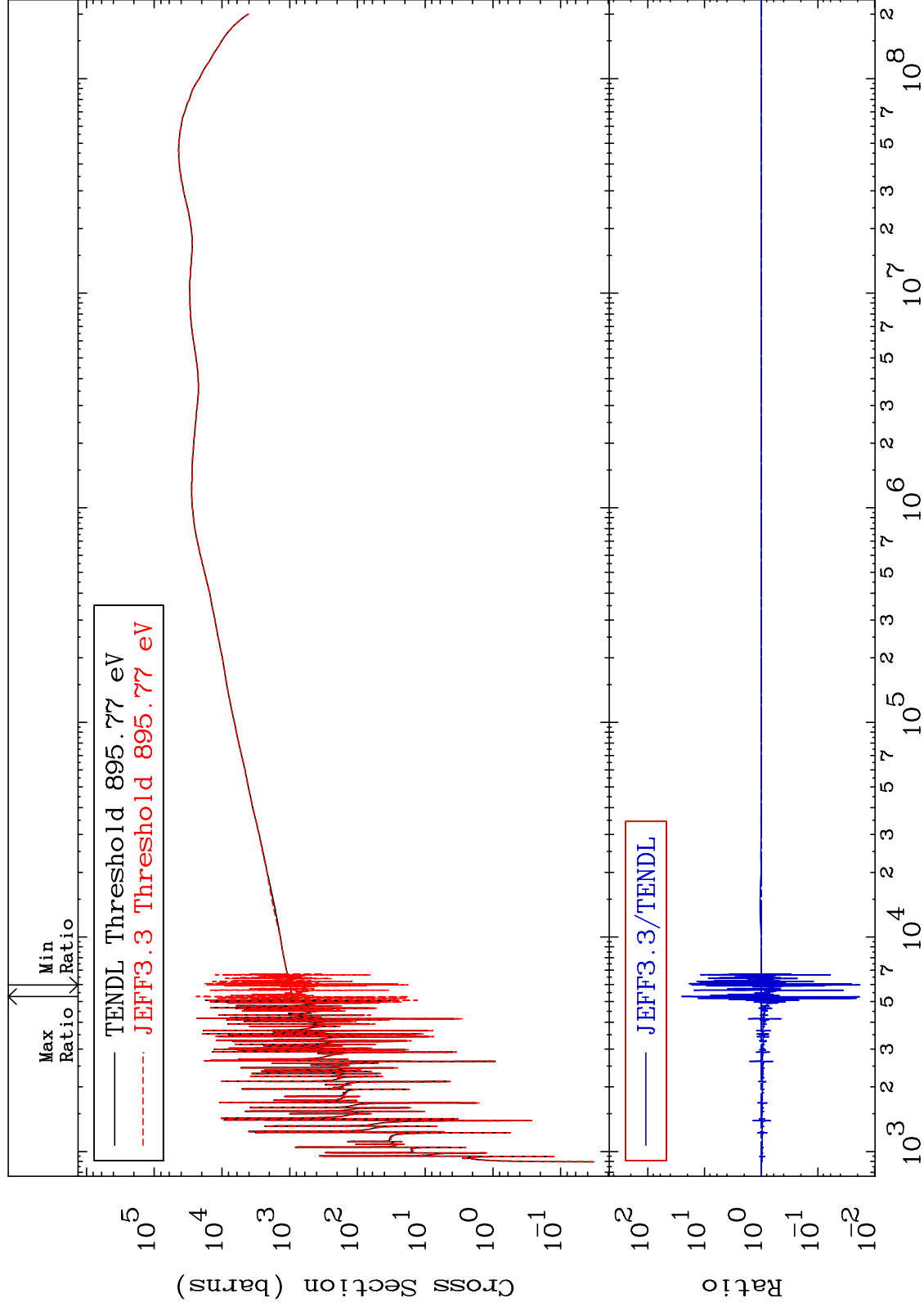
MAT 6249      Dpa total (eV-barns)      62-Sm-152  
 Cross Section      -98.06 To 2432. %



MAT 6249

Dpa elastic (mt2)  
Cross Section

62-Sm-152  
-98.18 To 2445. %

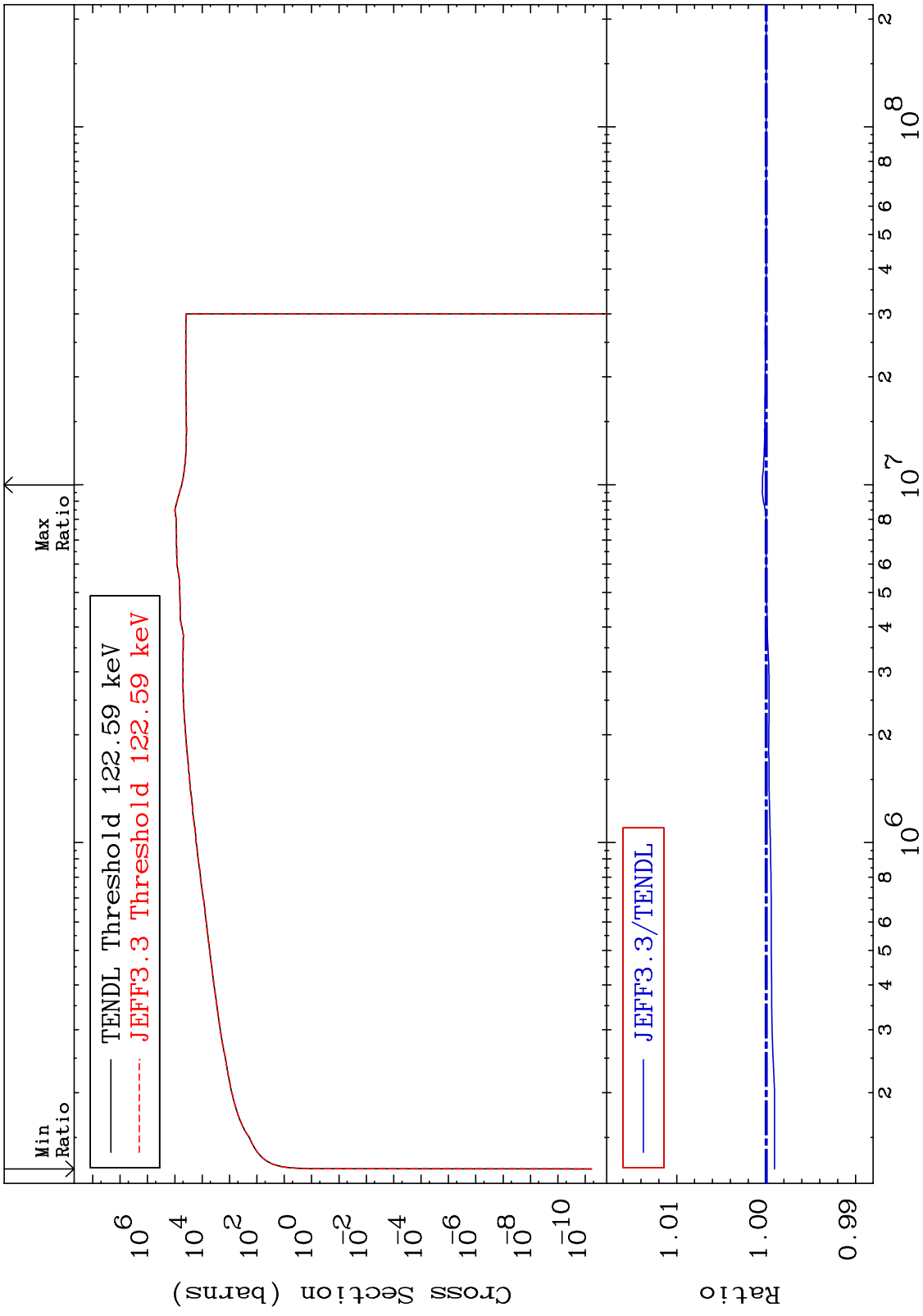


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Incident Energy (eV)

62-Sm-152

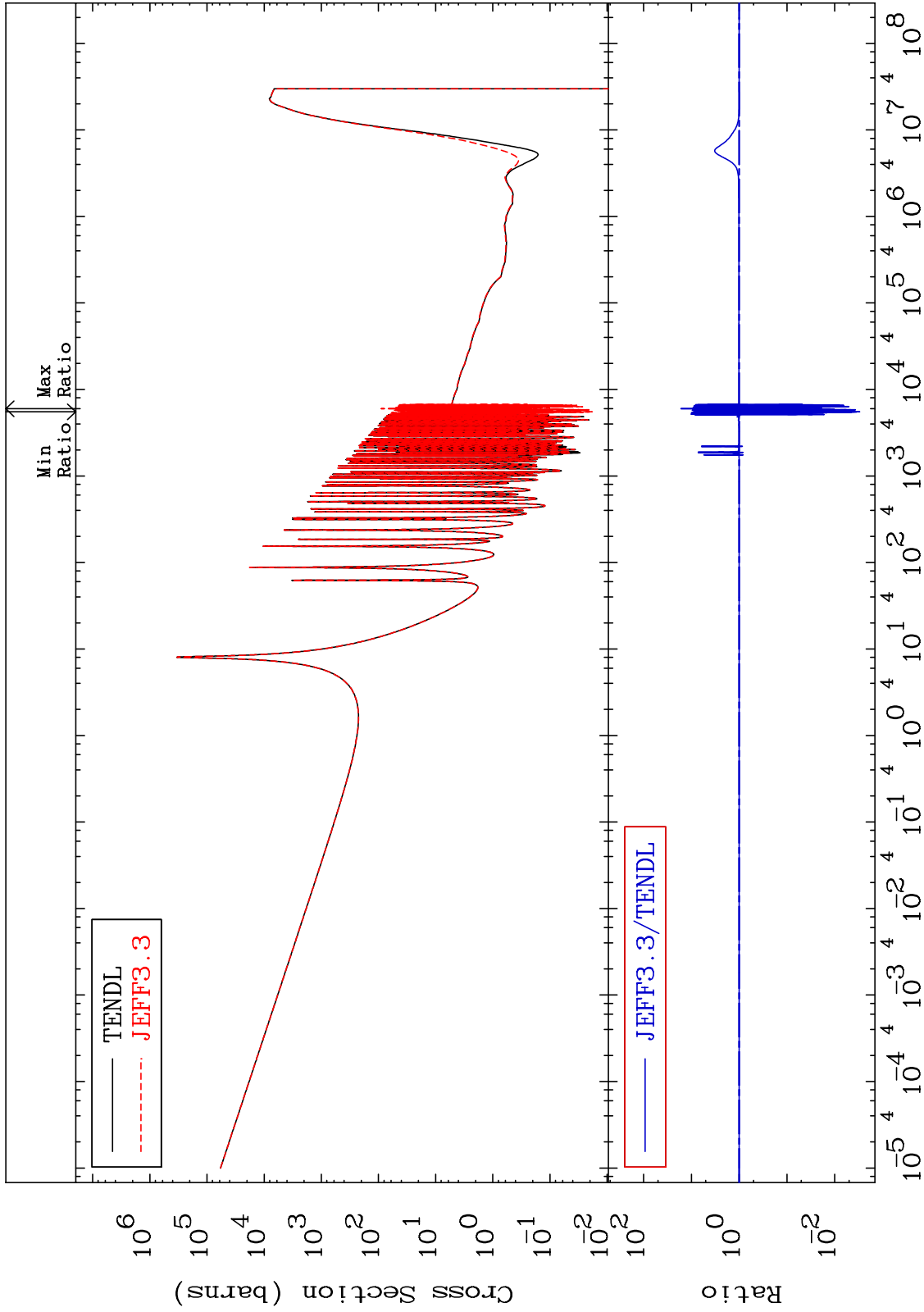
MAT 6249      Dpa inelastic (mt51-91)      62-Sm-152  
 Cross Section      -0.095 To 0.043 %



MAT 6249

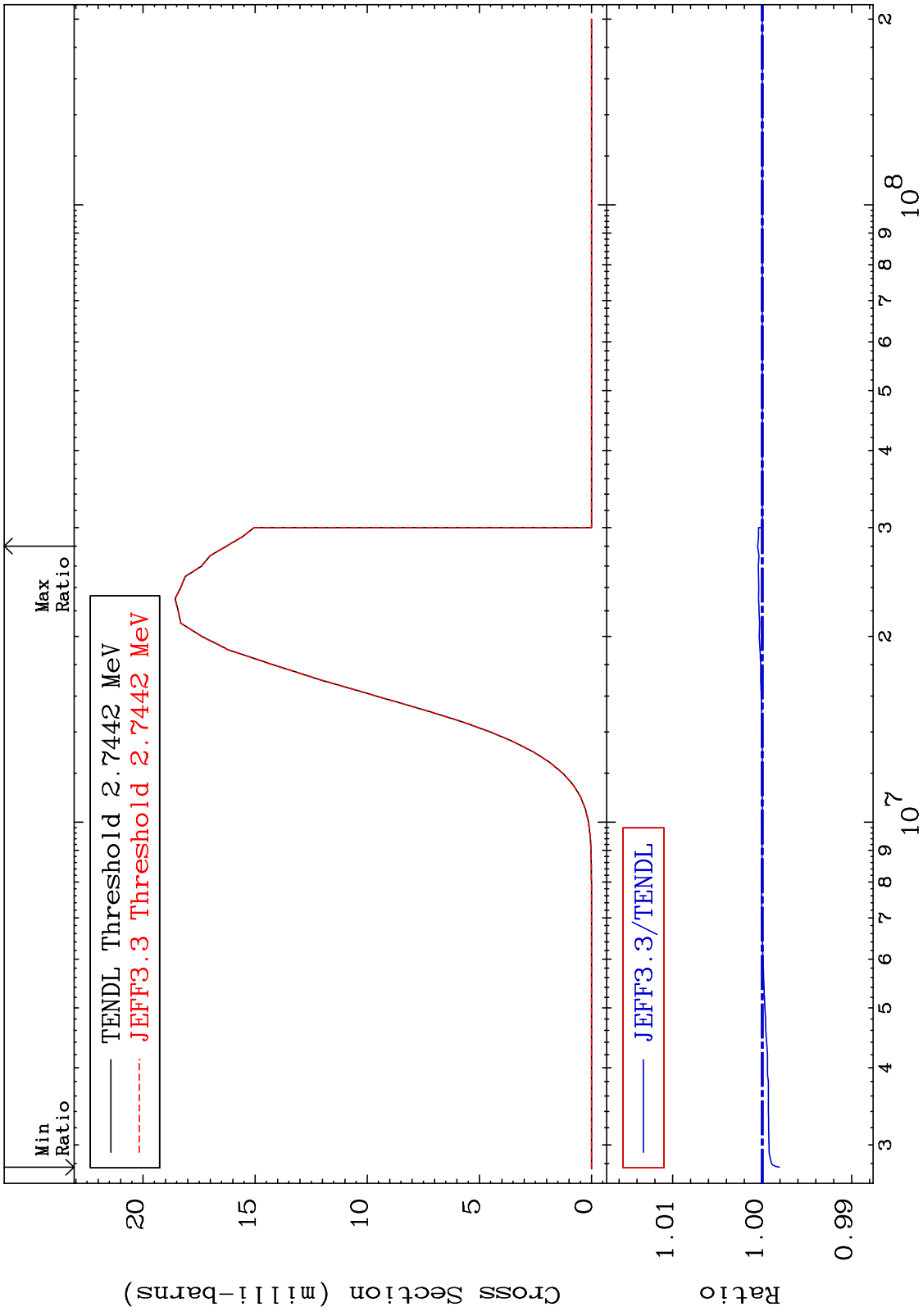
Dpa disappearance (mt102 -120)  
Cross Section

62-Sm-152  
-99.70 To 1564. %

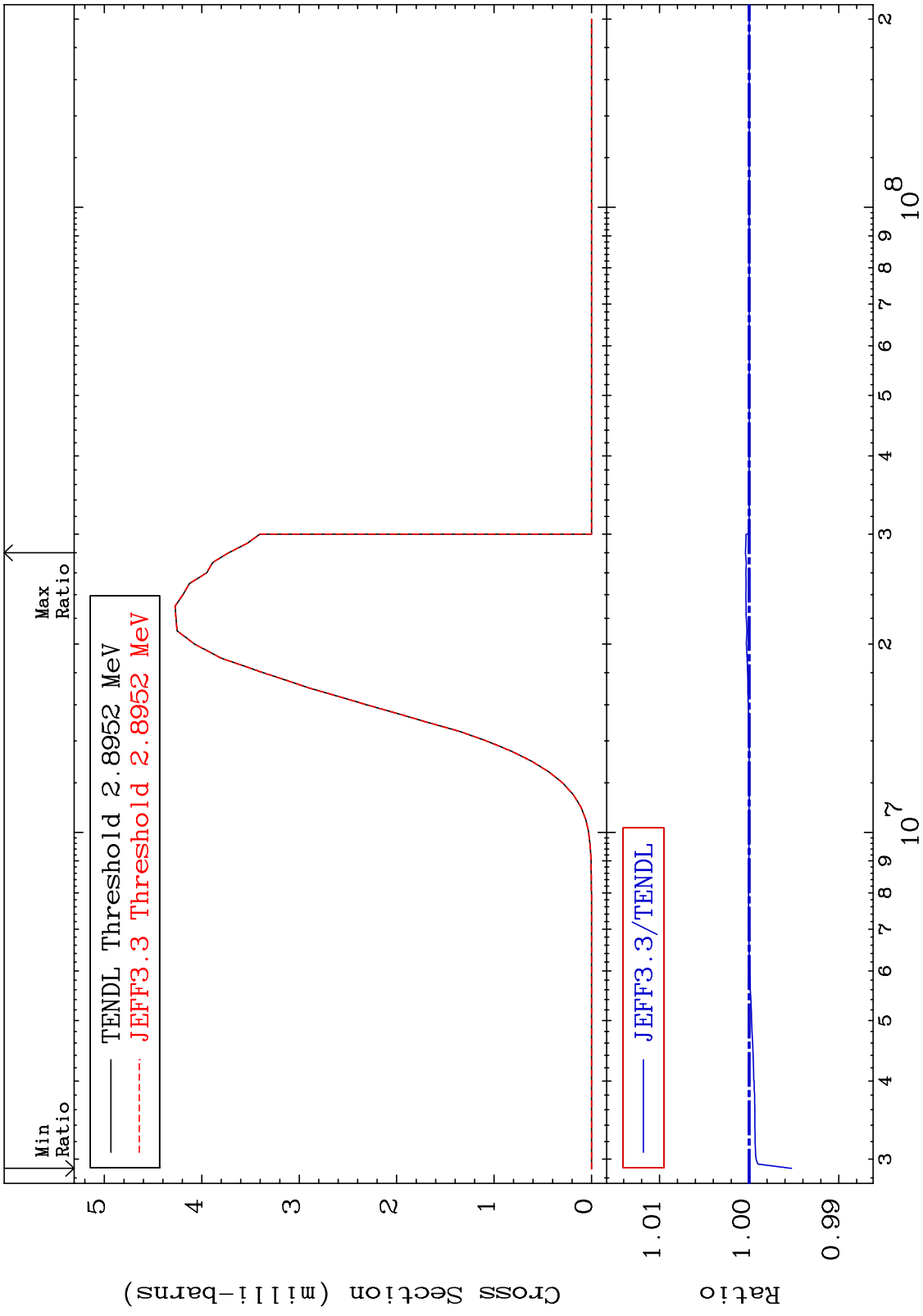




MAT 6249 (n,p):61-Pm-152g 62-Sm-152  
 Radionuclide Production Cross Section -0.191 To 0.051 %



MAT 6249 (n,p):61-Pm-152m4 62-Sm-152  
 Radionuclide Production Cross Section -0.473 To 0.043 %

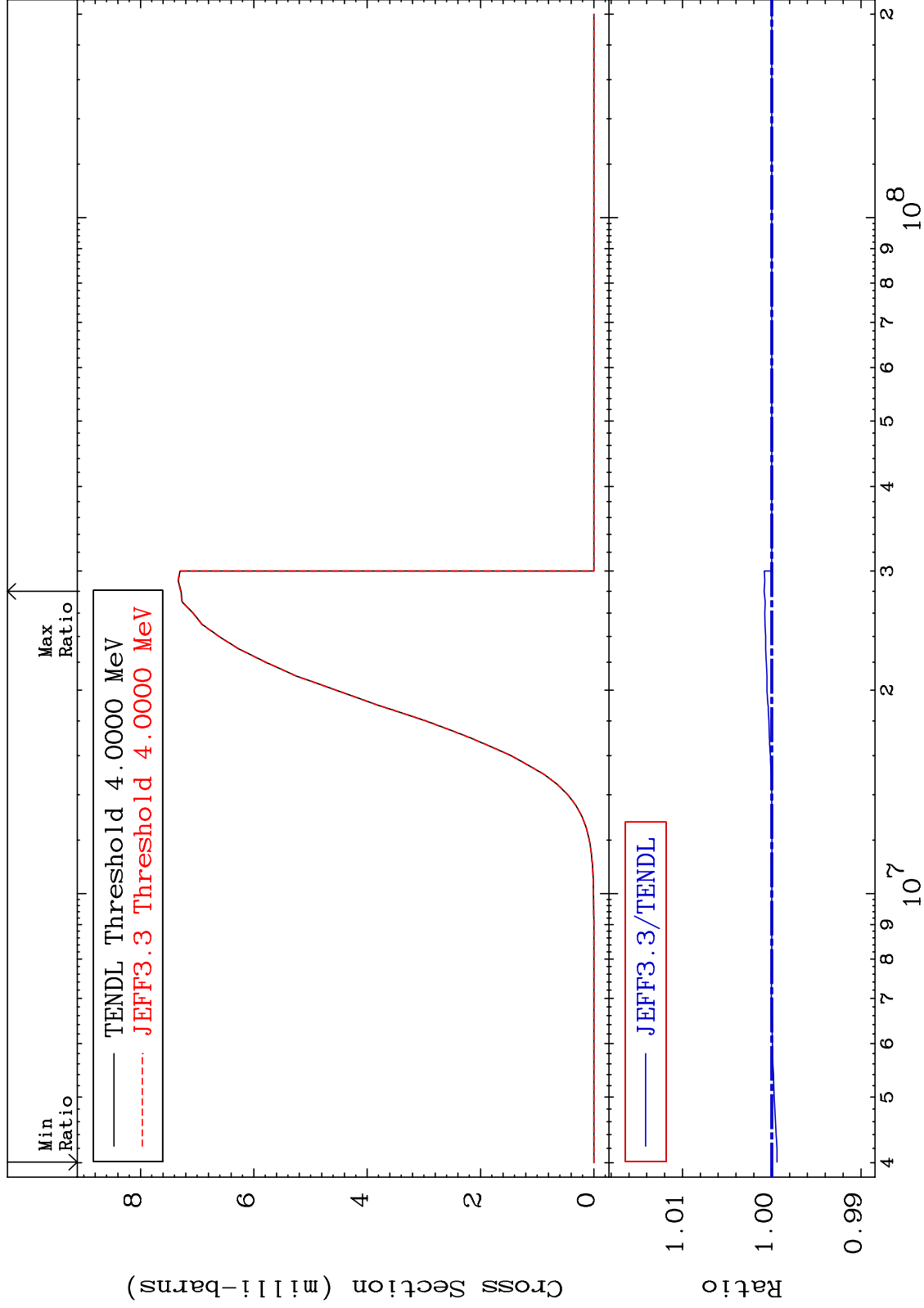


MAT 6249

(n,p):61-Pm-152m10

62-Sm-152

Radionuclide Production Cross Section -0.059 To 0.086 %

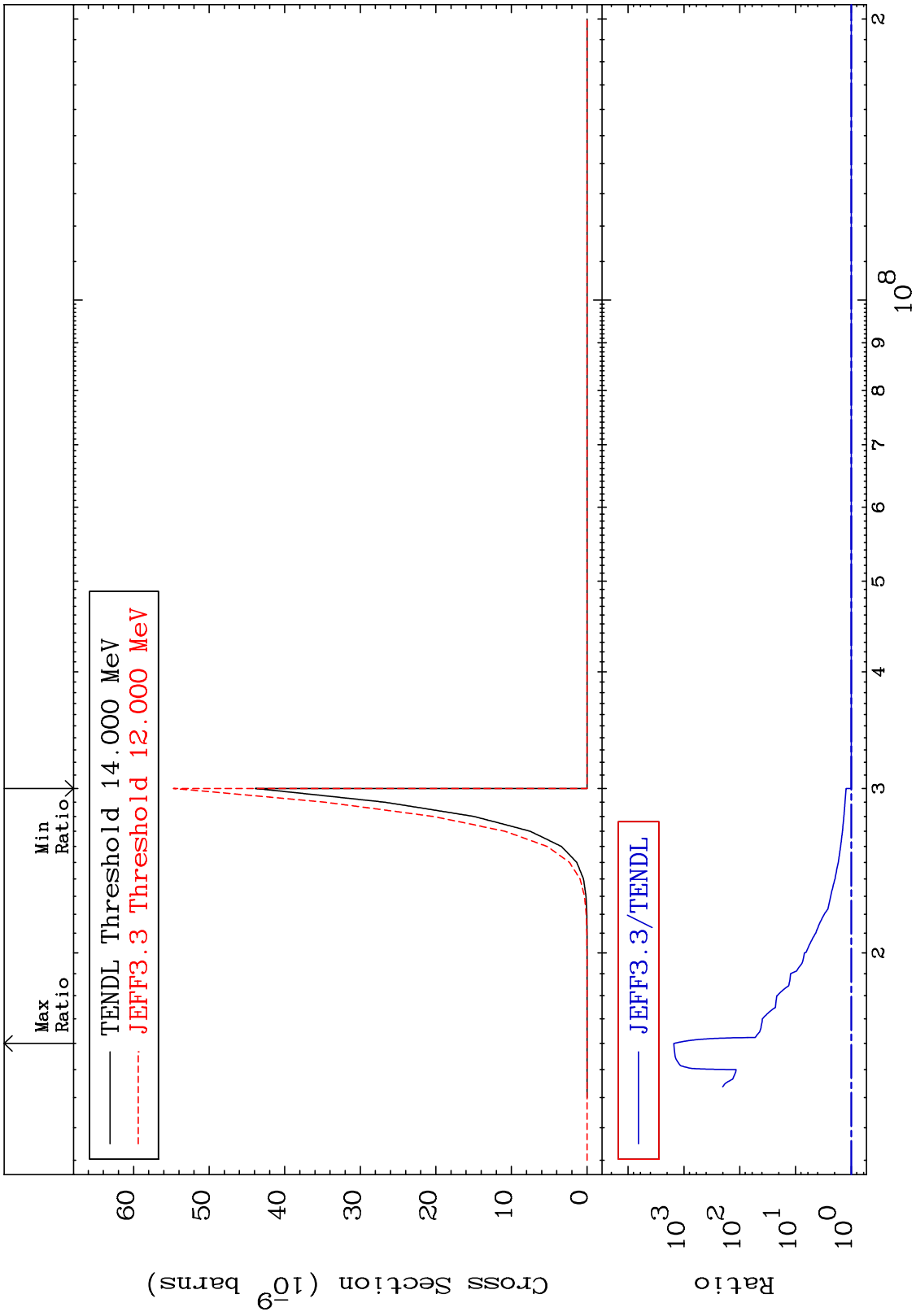


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Incident Energy (eV)

62-Sm-152

MAT 6249 (n,p)  $\alpha$ :59-Pr-148g 62-Sm-152  
 Radionuclide Production Cross Section 0.000 To 9999. %



MAT 6249 (n,p)  $\alpha$ :59-Pr-148m1 62-Sm-152  
 Radionuclide Production Cross Section 0.000 To 9999. %

