

Program Complot  
(Version 2018-1)

by

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(Present Contact Information)

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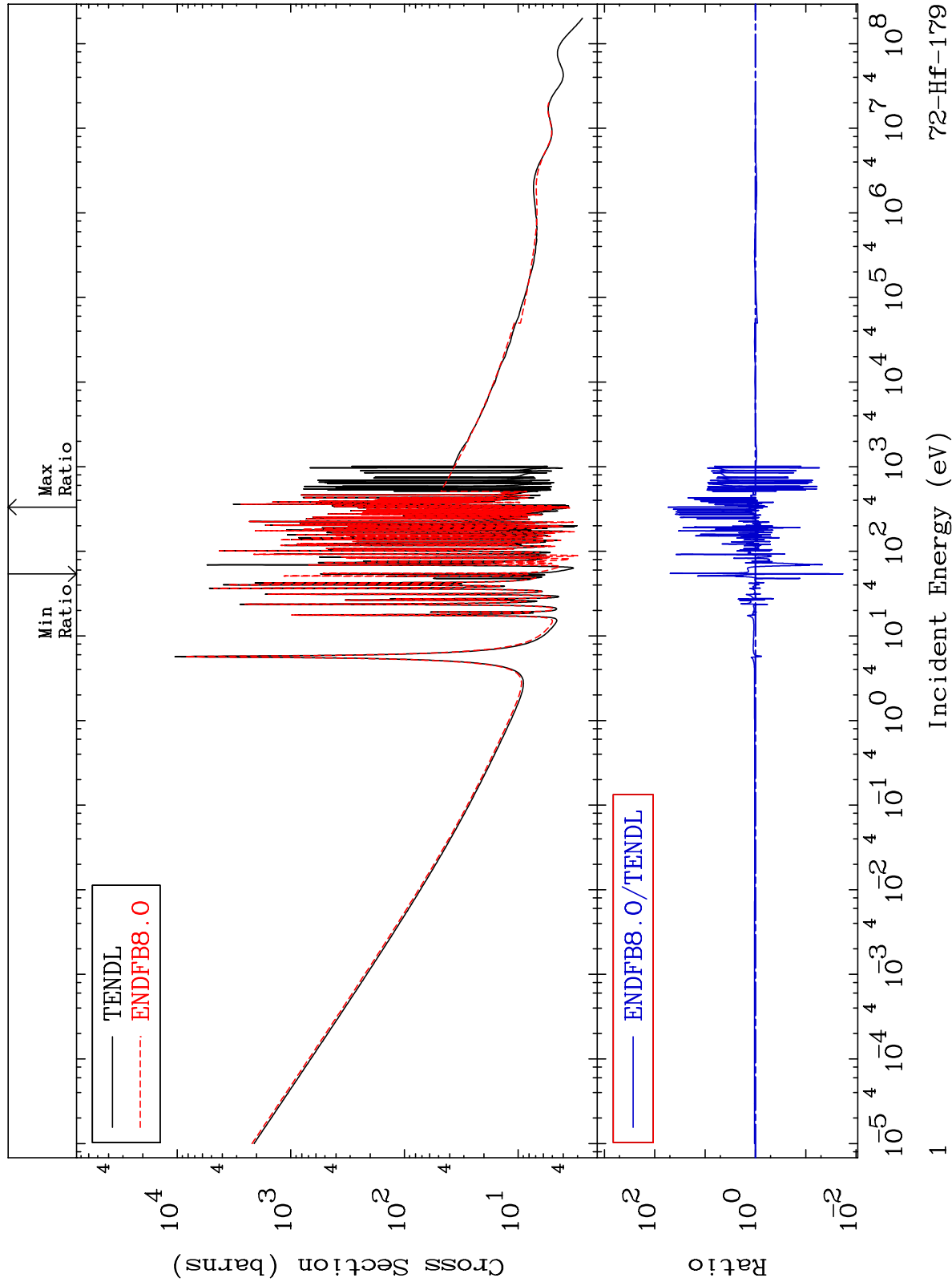
E.Mail: [redcullen1@comcast.net](mailto:redcullen1@comcast.net)  
Web: [redcullen1.net/HOMEPAGE.NEW](http://redcullen1.net/HOMEPAGE.NEW)

Press Mouse Button to Start

MAT 7240

Total  
Cross Section

72-Hf-179  
-98.16 To 5346. %

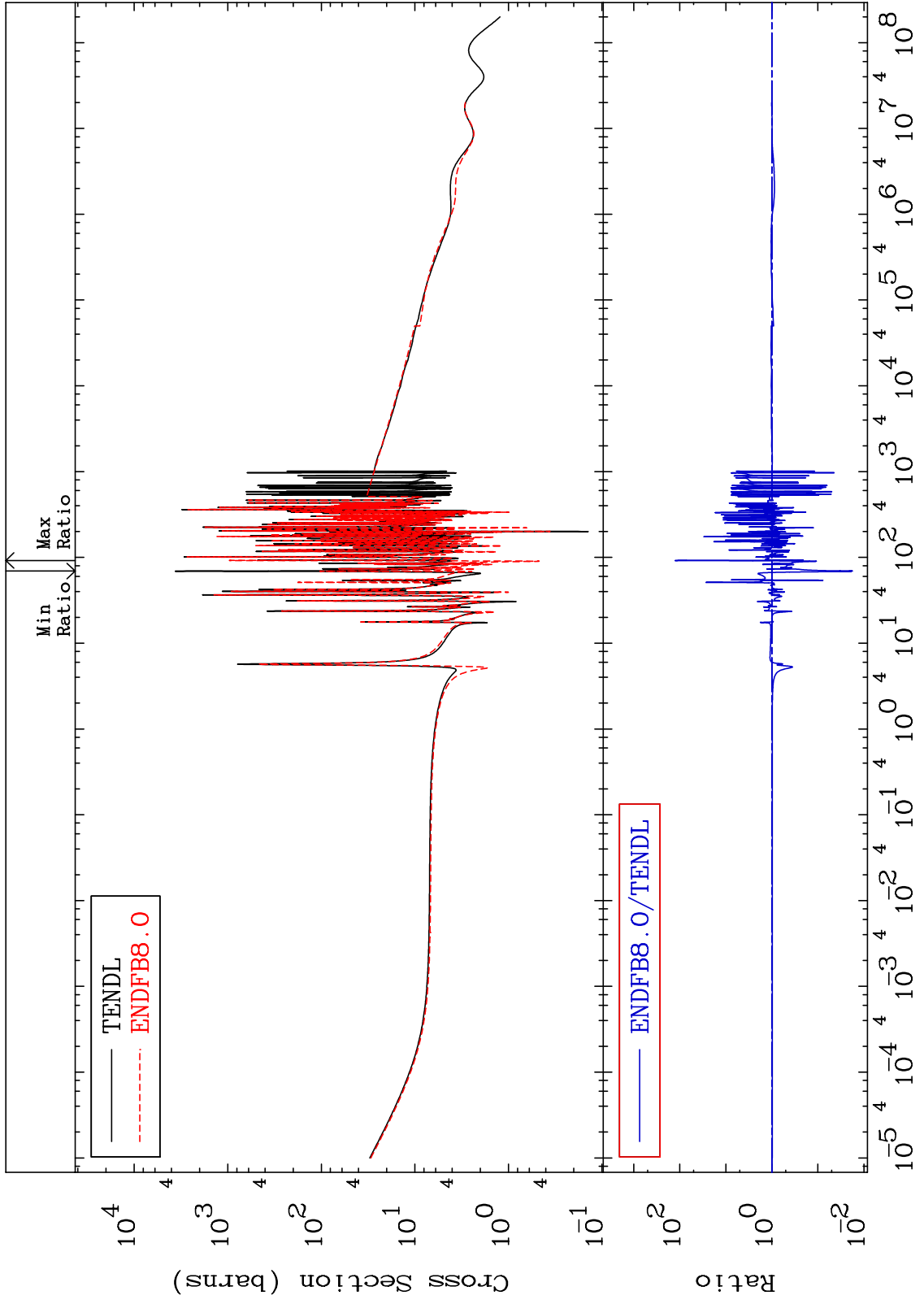


72-Hf-179

MAT 7240

Elastic  
Cross Section

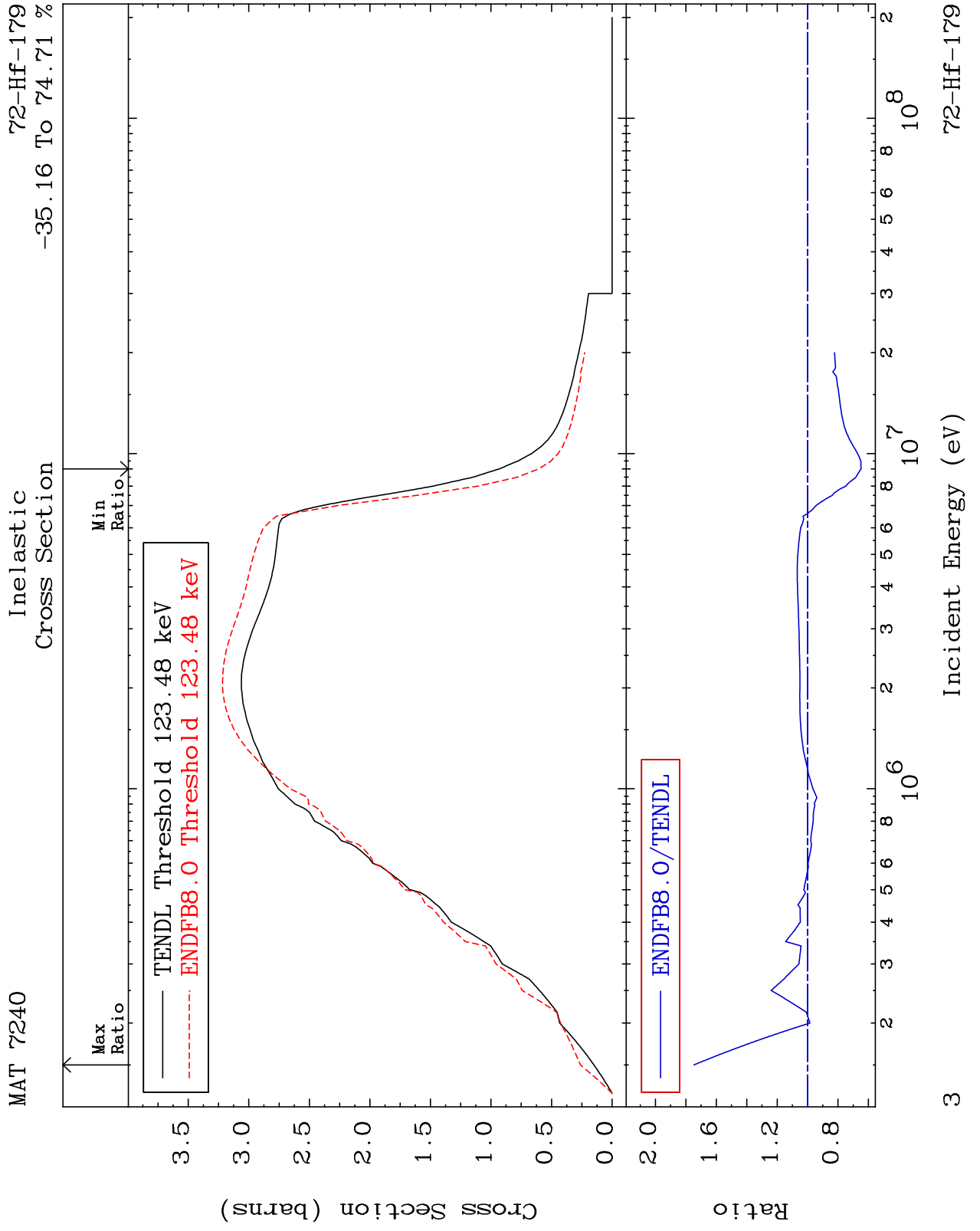
72-Hf-179  
-98.22 To 9999. %



Incident Energy (eV)

72-Hf-179

2



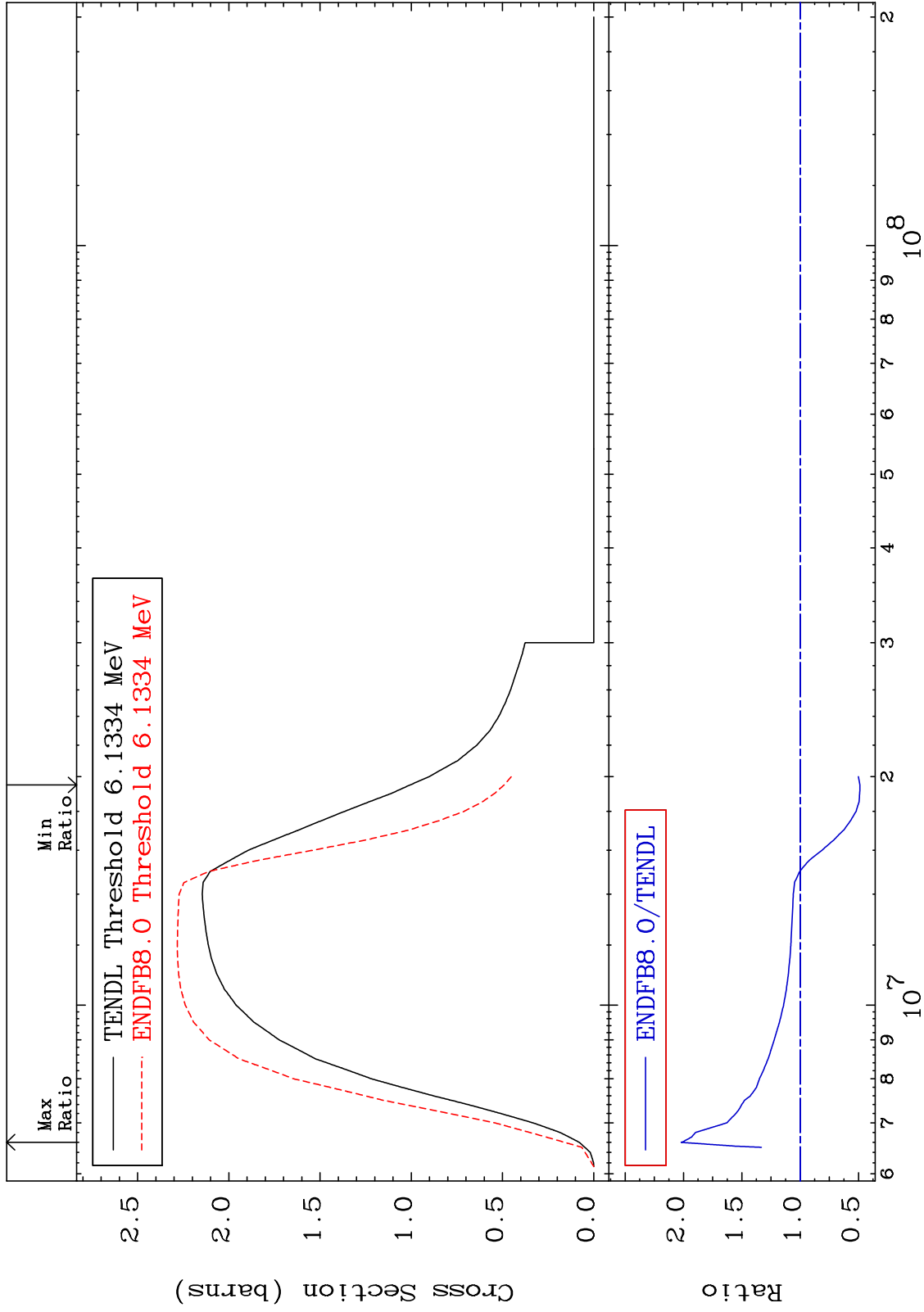
MAT 7240

(n,2n)

72-Hf-179

Cross Section

-51.21 To 101.9 %



72-Hf-179

Incident Energy (eV)

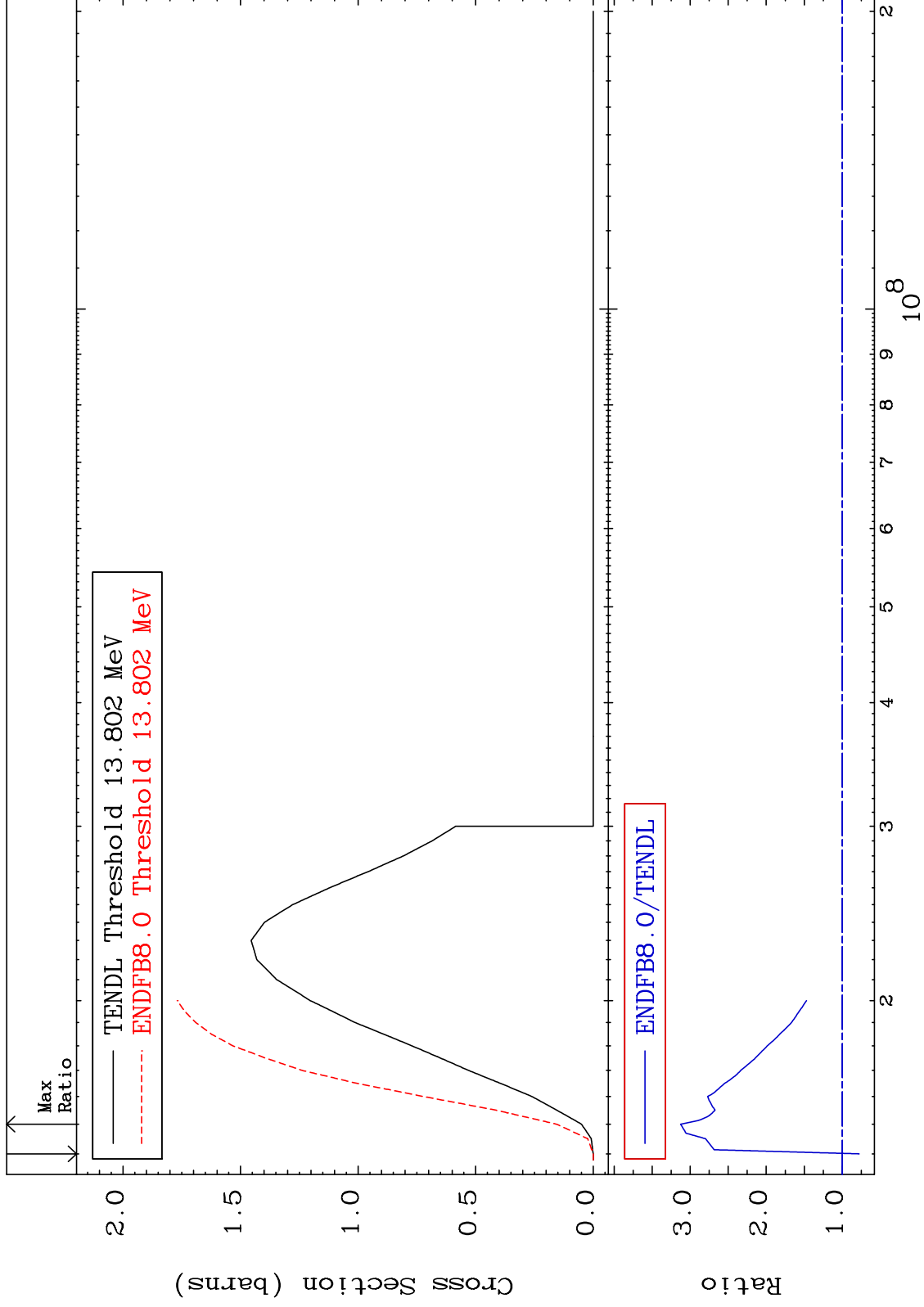
MAT 7240

(n, 3n)

<sup>72</sup>Hf-179

Cross Section

-22.22 To 212.6 %



5

Incident Energy (eV)

<sup>72</sup>Hf-179

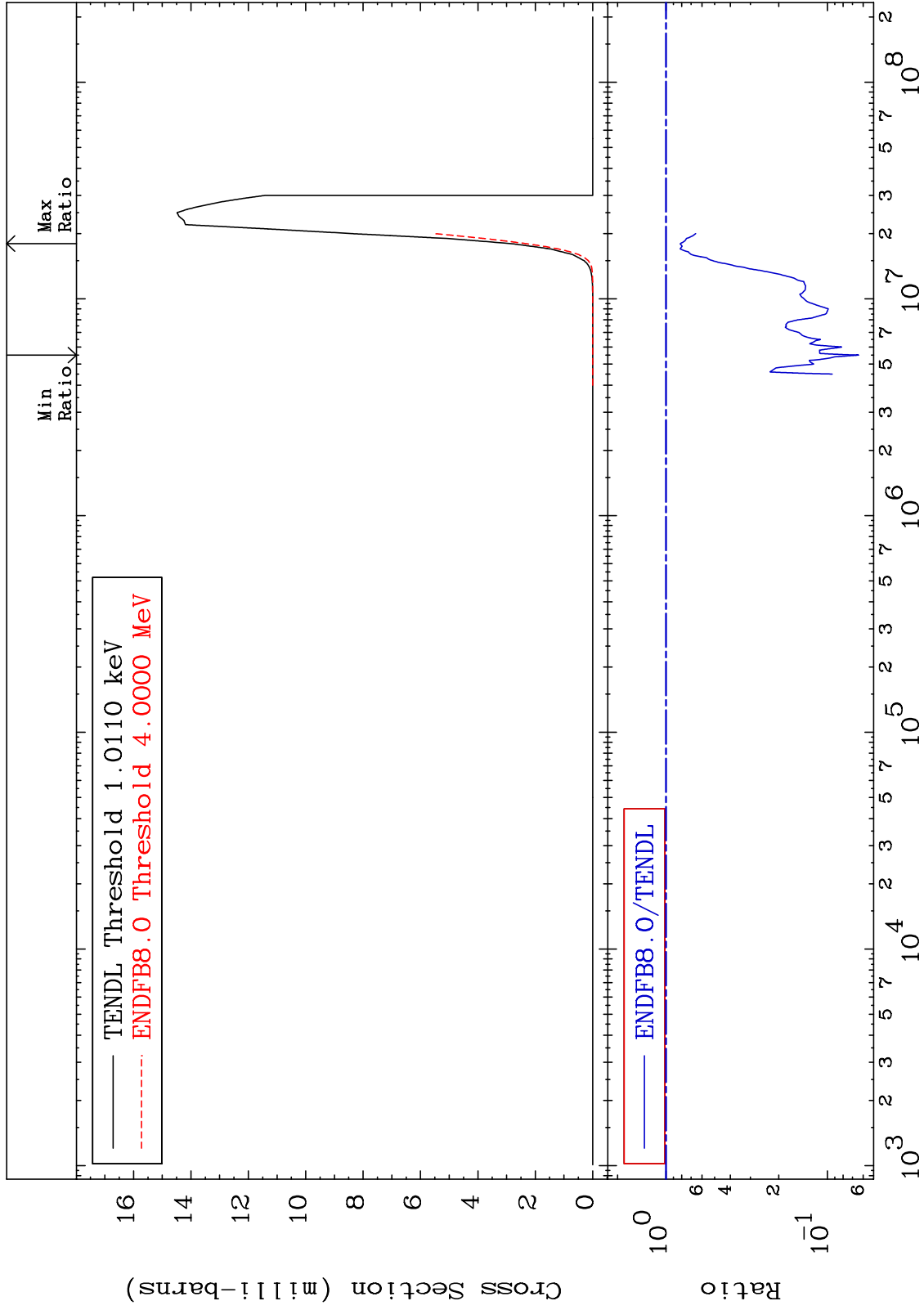
MAT 7240

(n,n')  $\alpha$

Cross Section

72-Hf-179

-93.58 To -18.04%



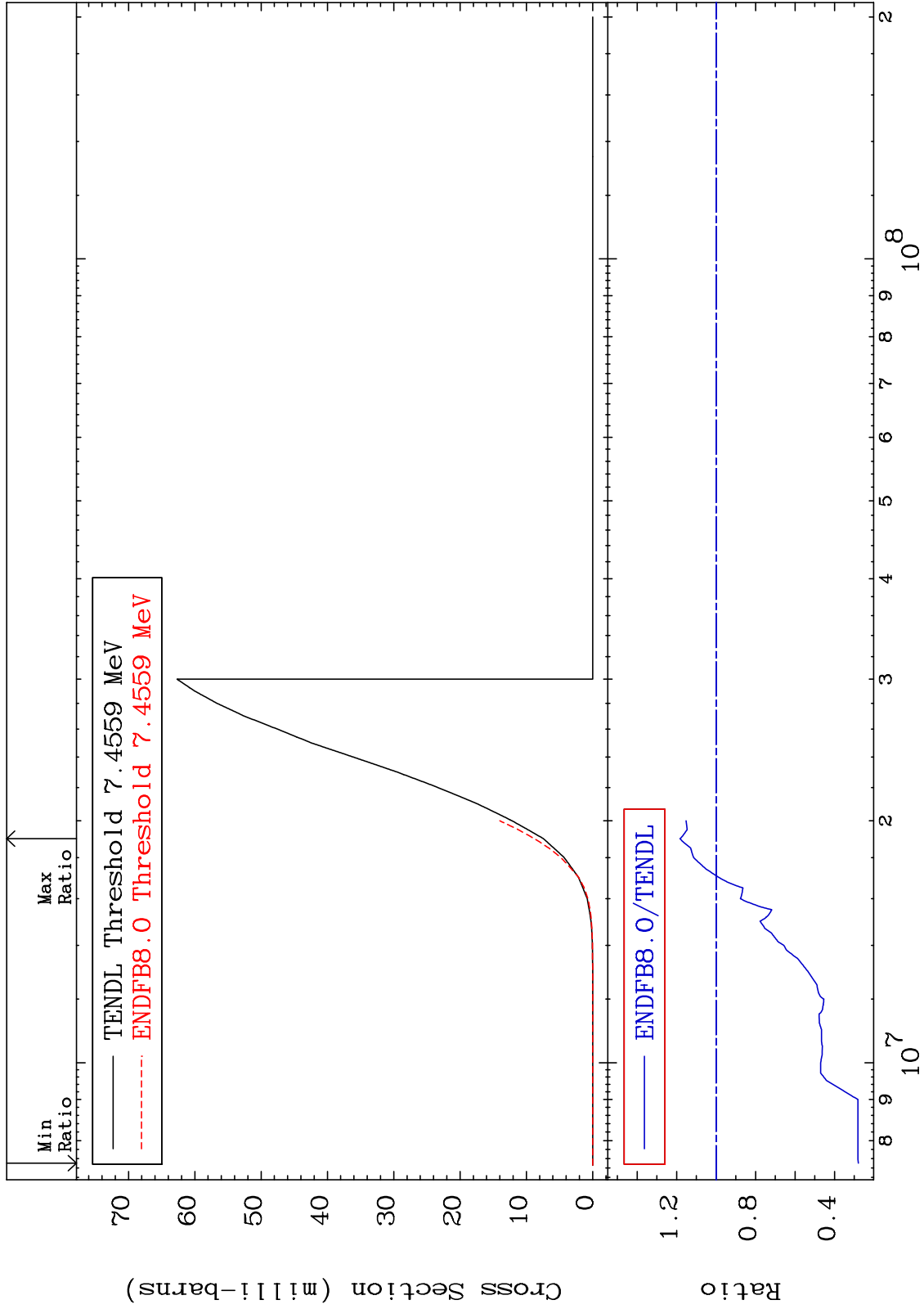
Incident Energy (eV)

72-Hf-179

MAT 7240

(n,n') p  
Cross Section

72-Hf-179  
-72.08 To 18.27 %



7

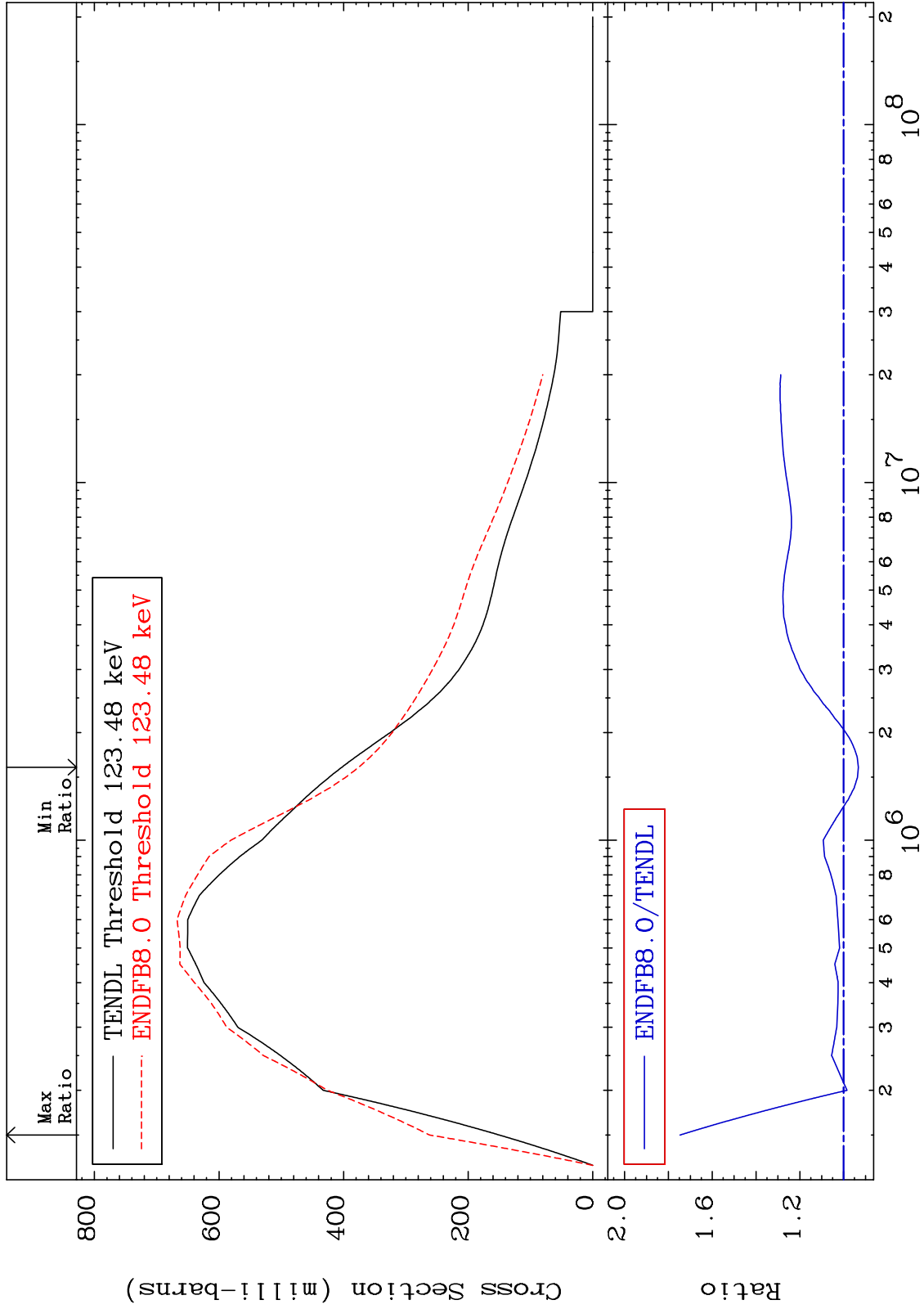
Incident Energy (eV)

72-Hf-179

MAT 7240

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

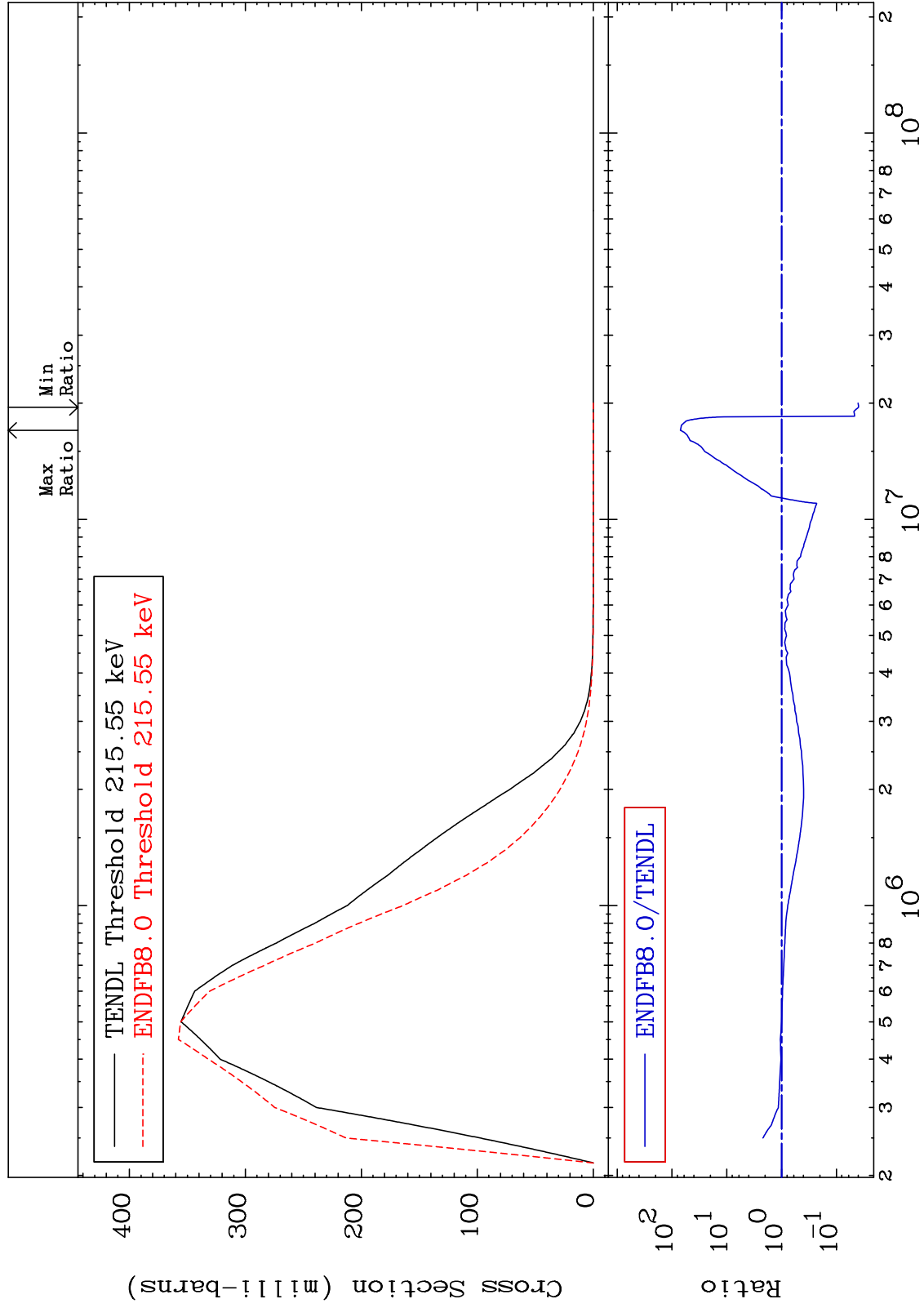
72-Hf-179  
-6.767 To 74.71 %



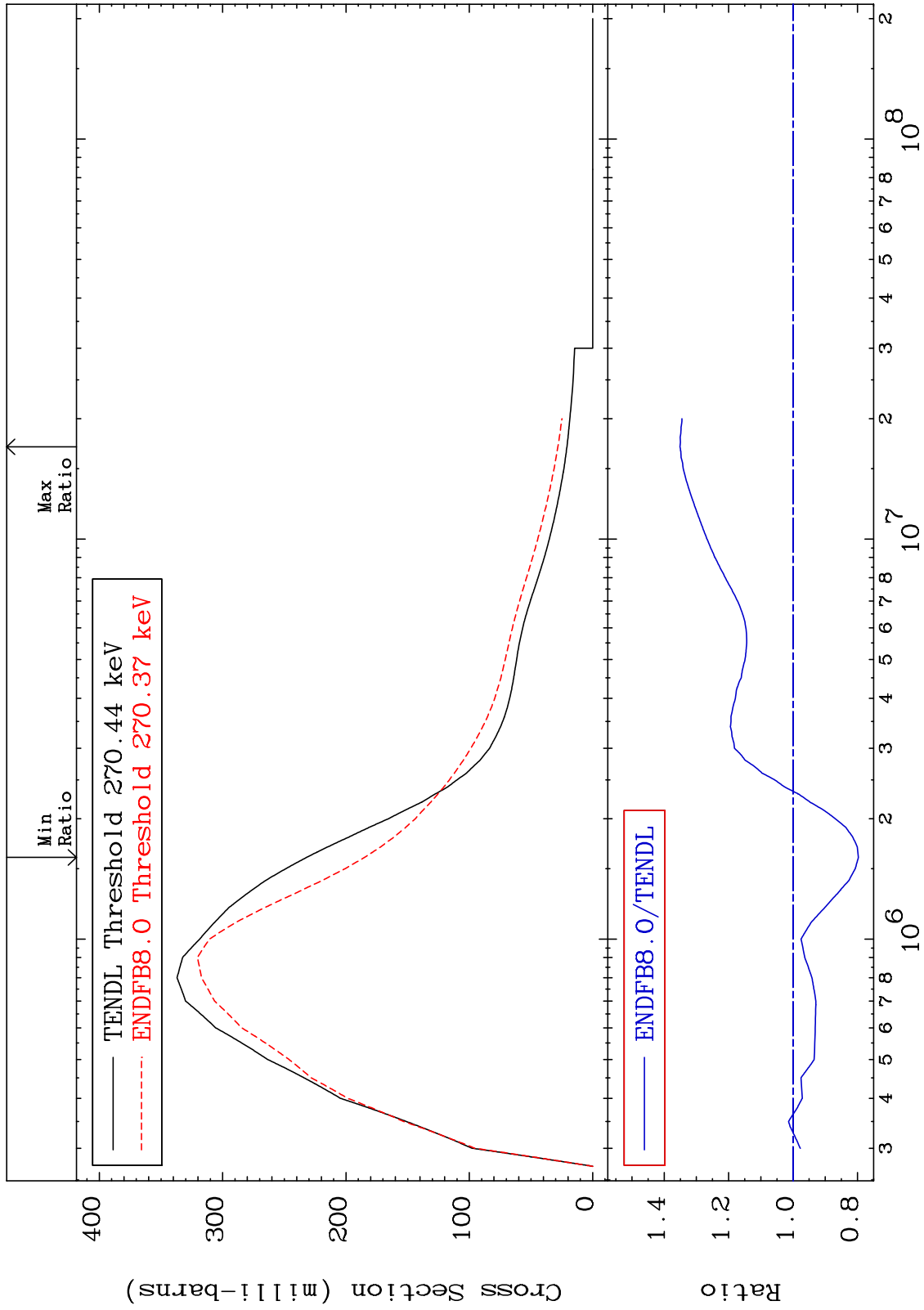
MAT 7240

MT= 52 (n,n') Level  
Cross Section

72-Hf-179  
-96.04 To 6911. %



MAT 7240 MT= 53 (n,n') Level Cross Section 72-Hf-179 -20.29 To 35.09 %

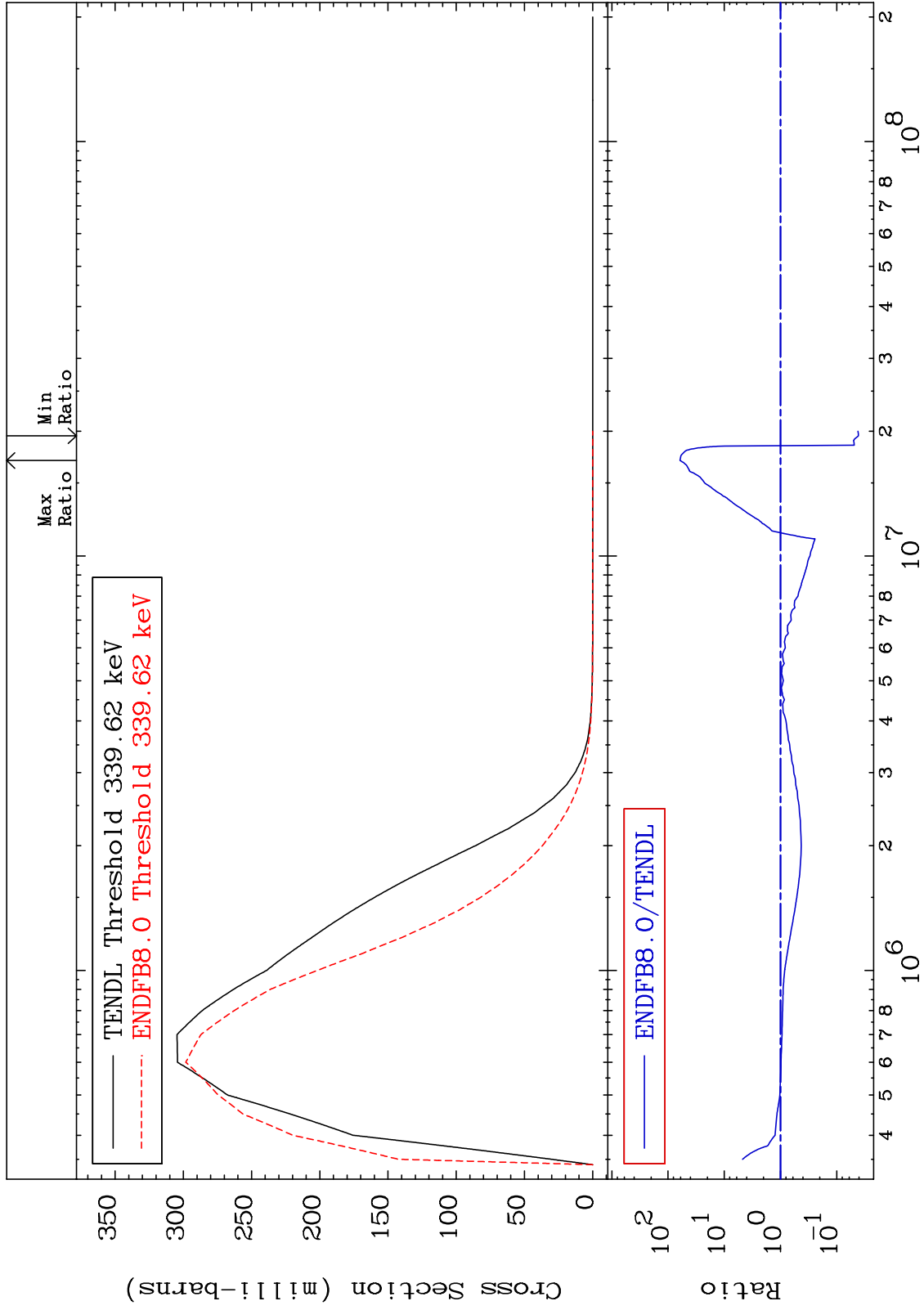


10 Incident Energy (eV) 72-Hf-179

MAT 7240

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

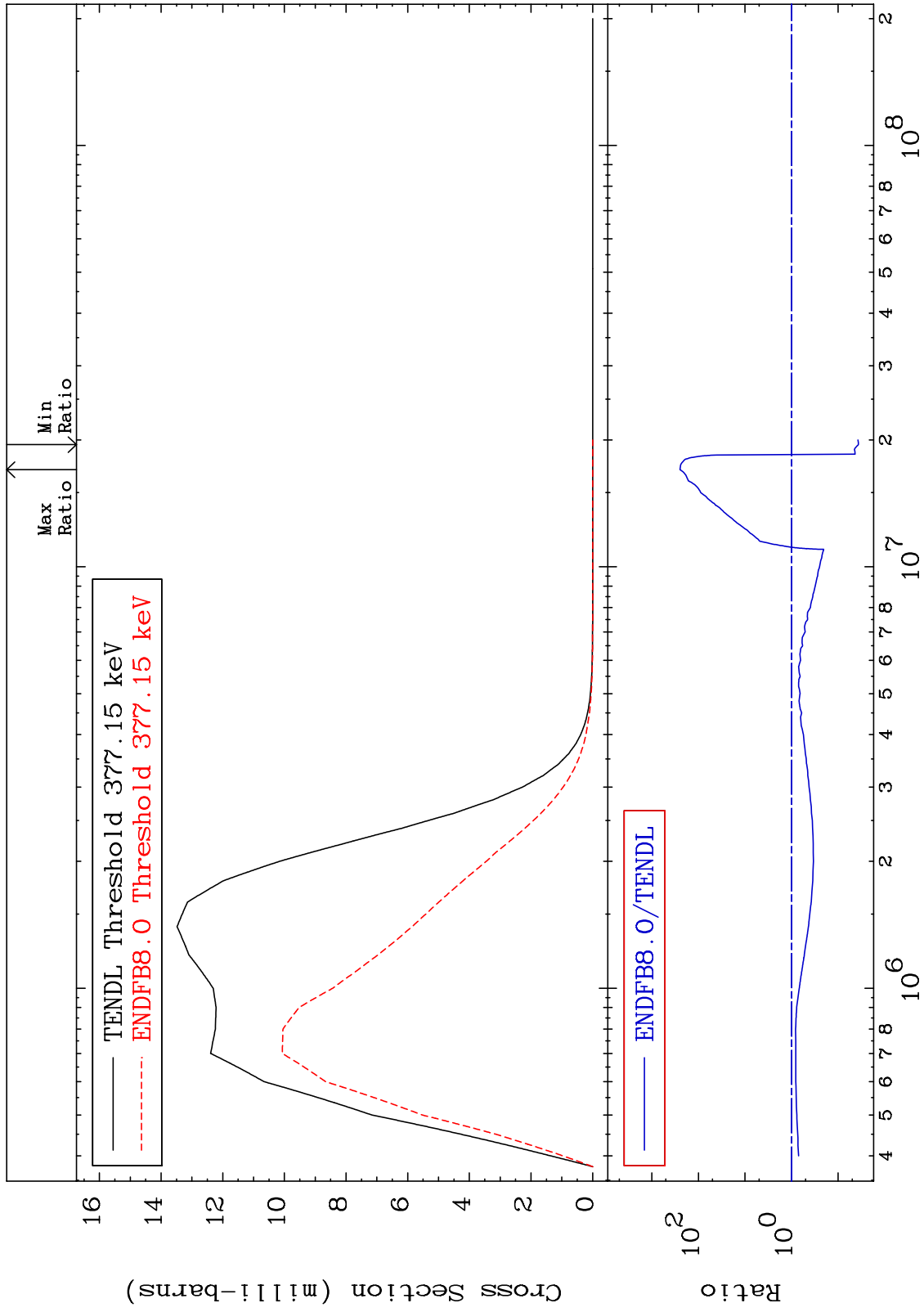
72-Hf-179  
-95.88 To 6025. %



MAT 7240

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

72-Hf-179  
-96.32 To 9999. %



12

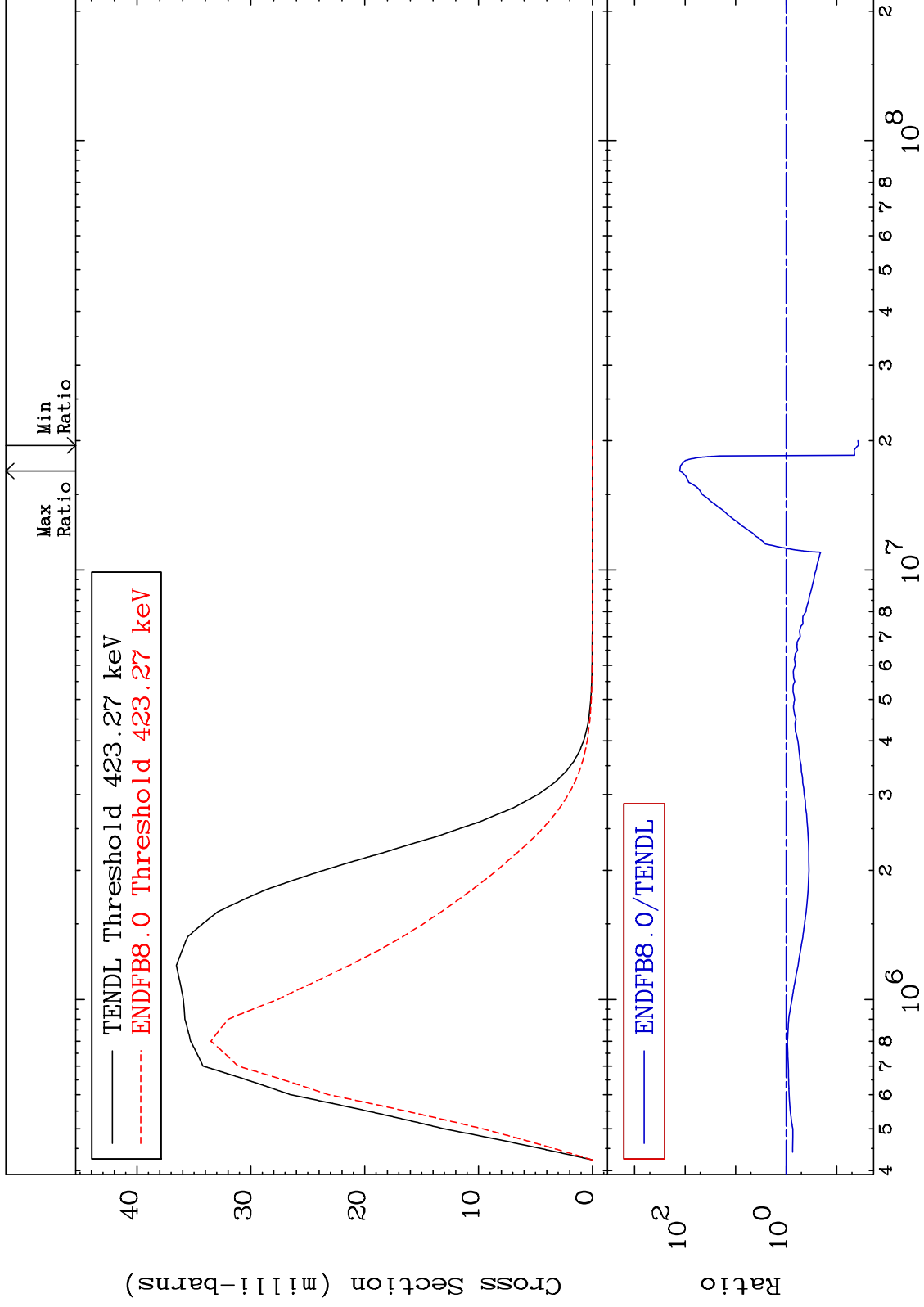
Incident Energy (eV)

72-Hf-179

MAT 7240

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

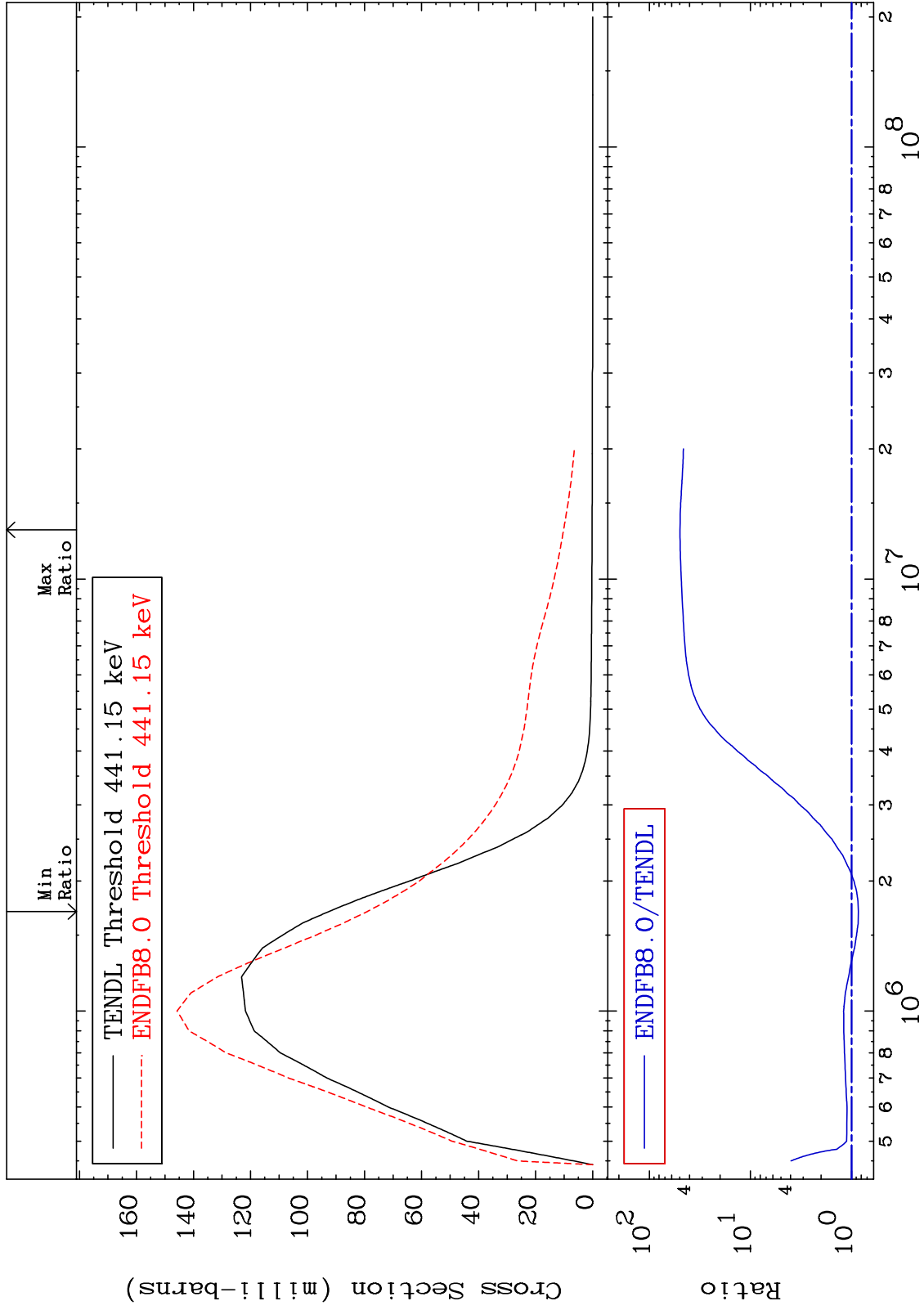
72-Hf-179  
-96.27 To 9999. %



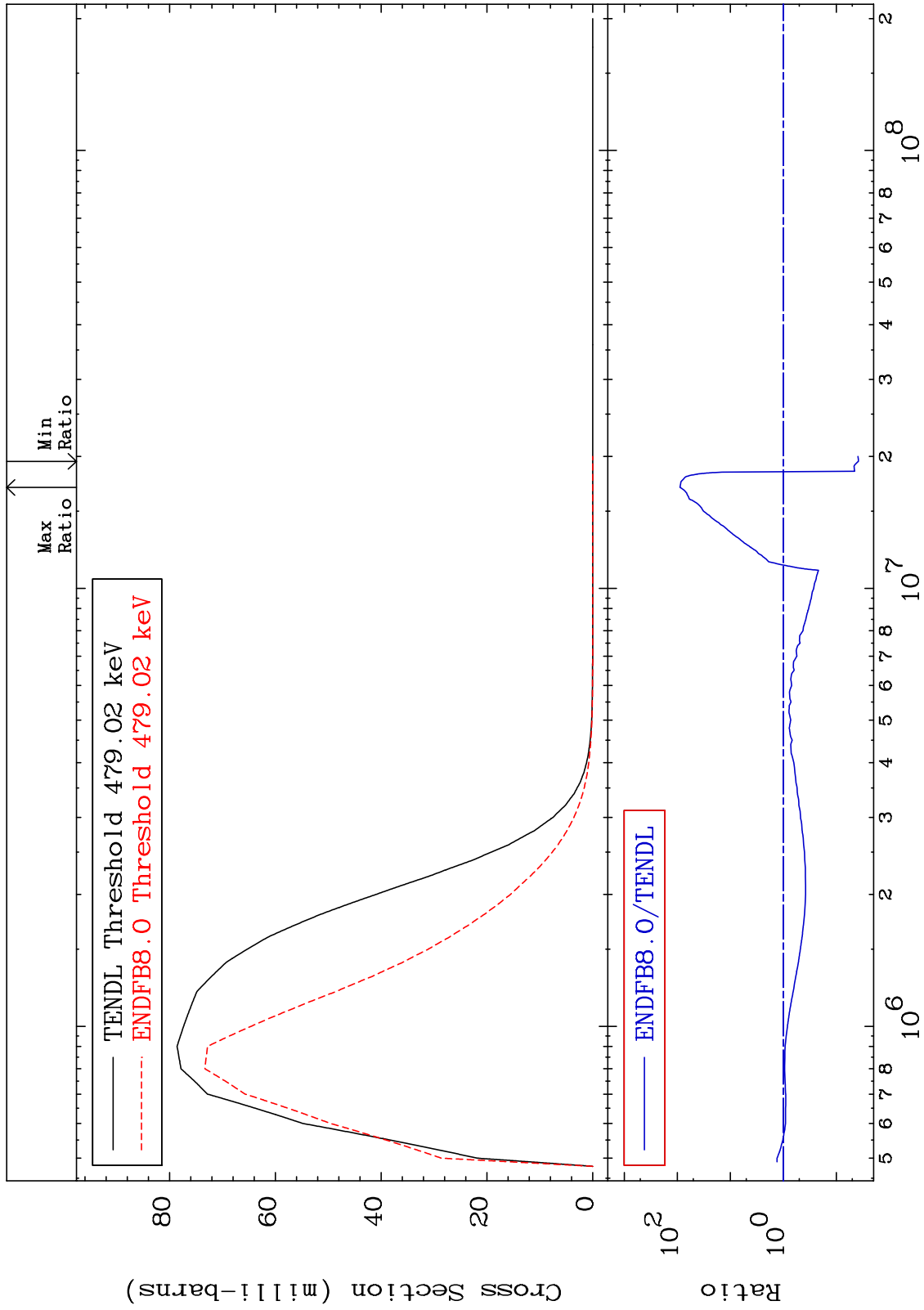
MAT 7240

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

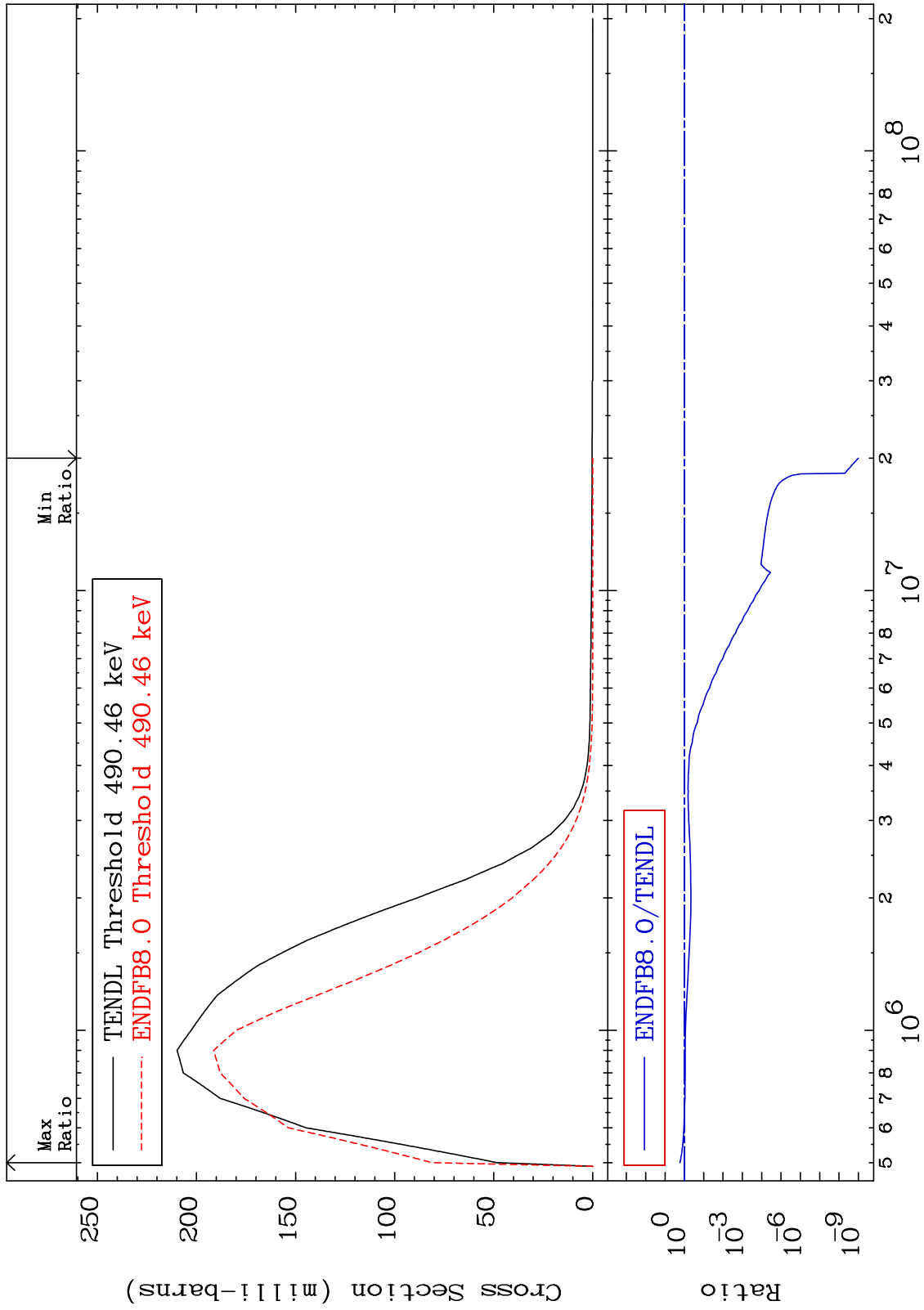
72-Hf-179  
-14.55 To 4869. %



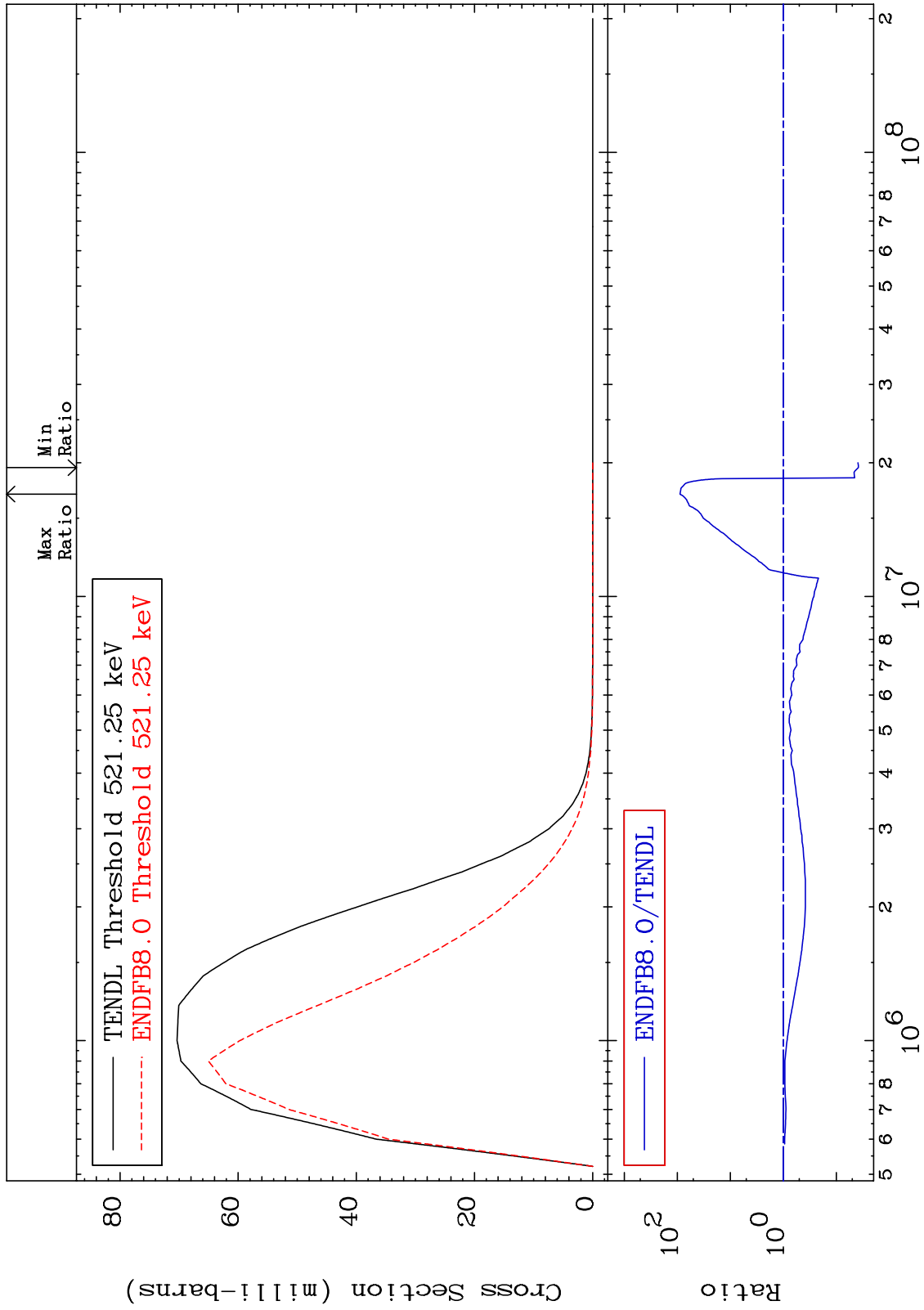
MAT 7240 MT= 58 (n,n') Level Cross Section 72-Hf-179 -96.18 To 8787. %



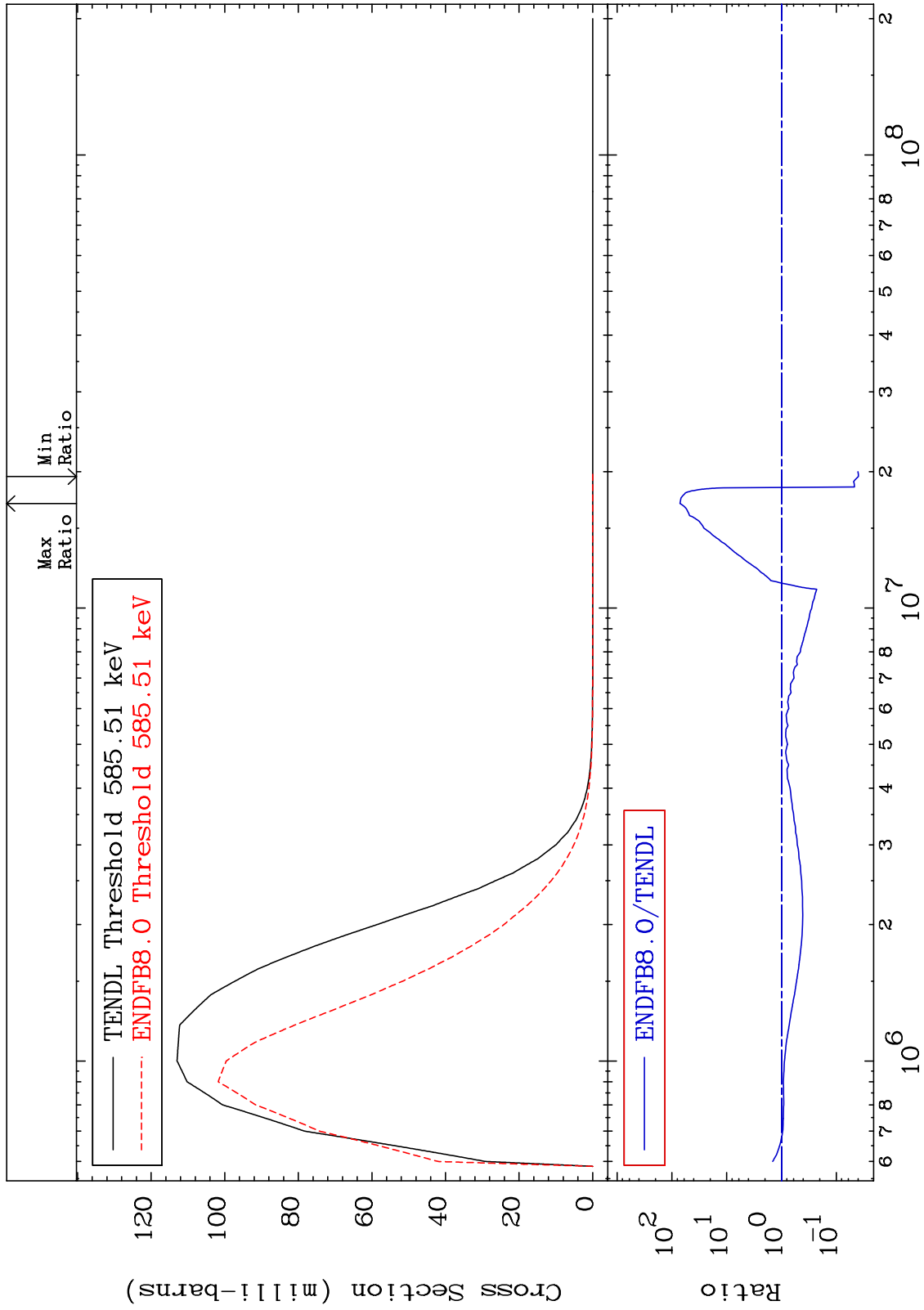
MAT 7240 MT= 59 (n,n') Level Cross Section 72-Hf-179  
 -100.0 To 67.85 %



MAT 7240 MT= 60 (n,n') Level Cross Section 72-Hf-179  
 -96.18 To 8802. %



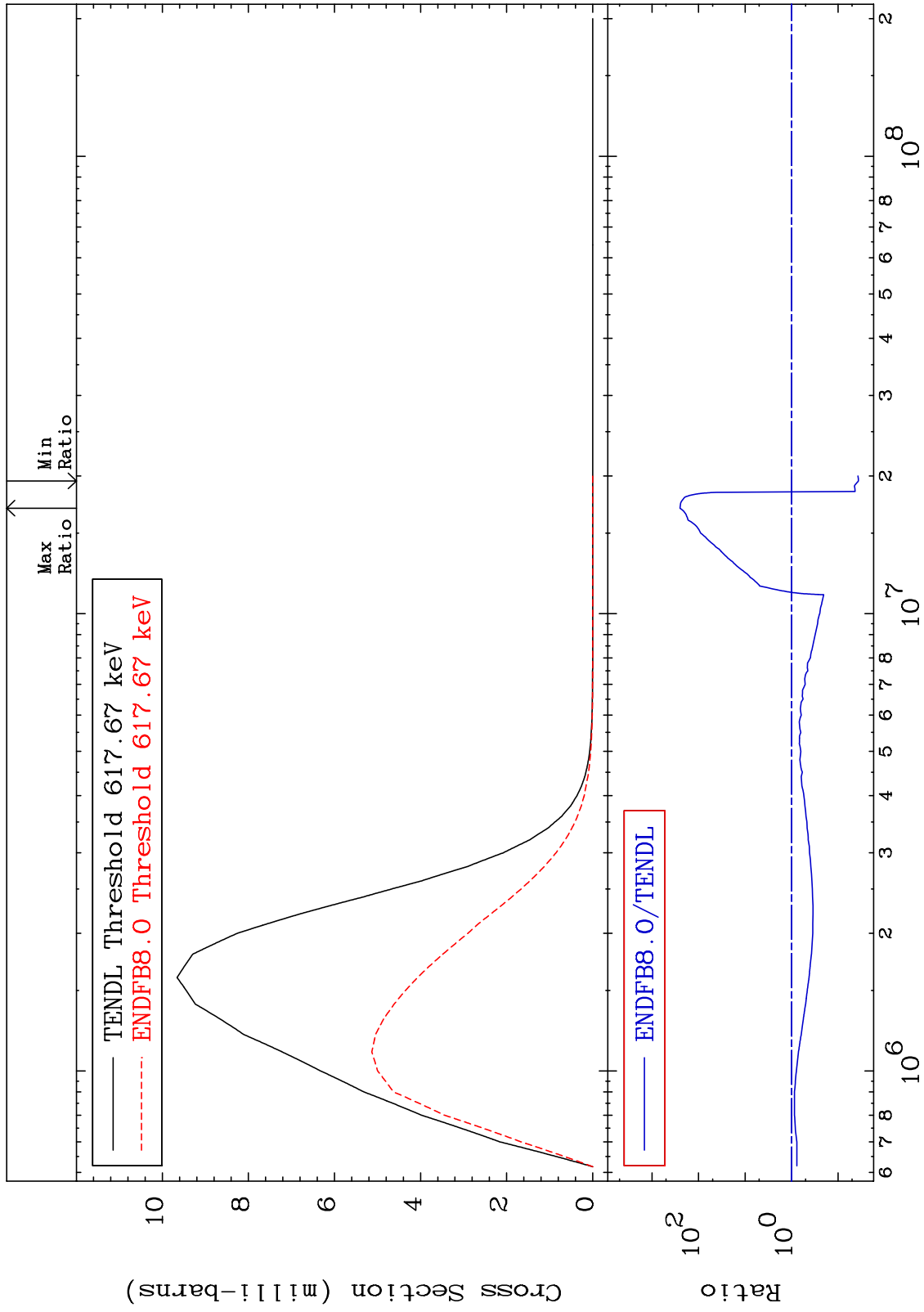
MAT 7240 MT= 61 (n,n') Level Cross Section 72-Hf-179 -96.06 To 7017. %



MAT 7240

MT= 62 (n,n') Level  
Cross Section

<sup>72</sup>Hf-179  
-96.34 To 9999. %

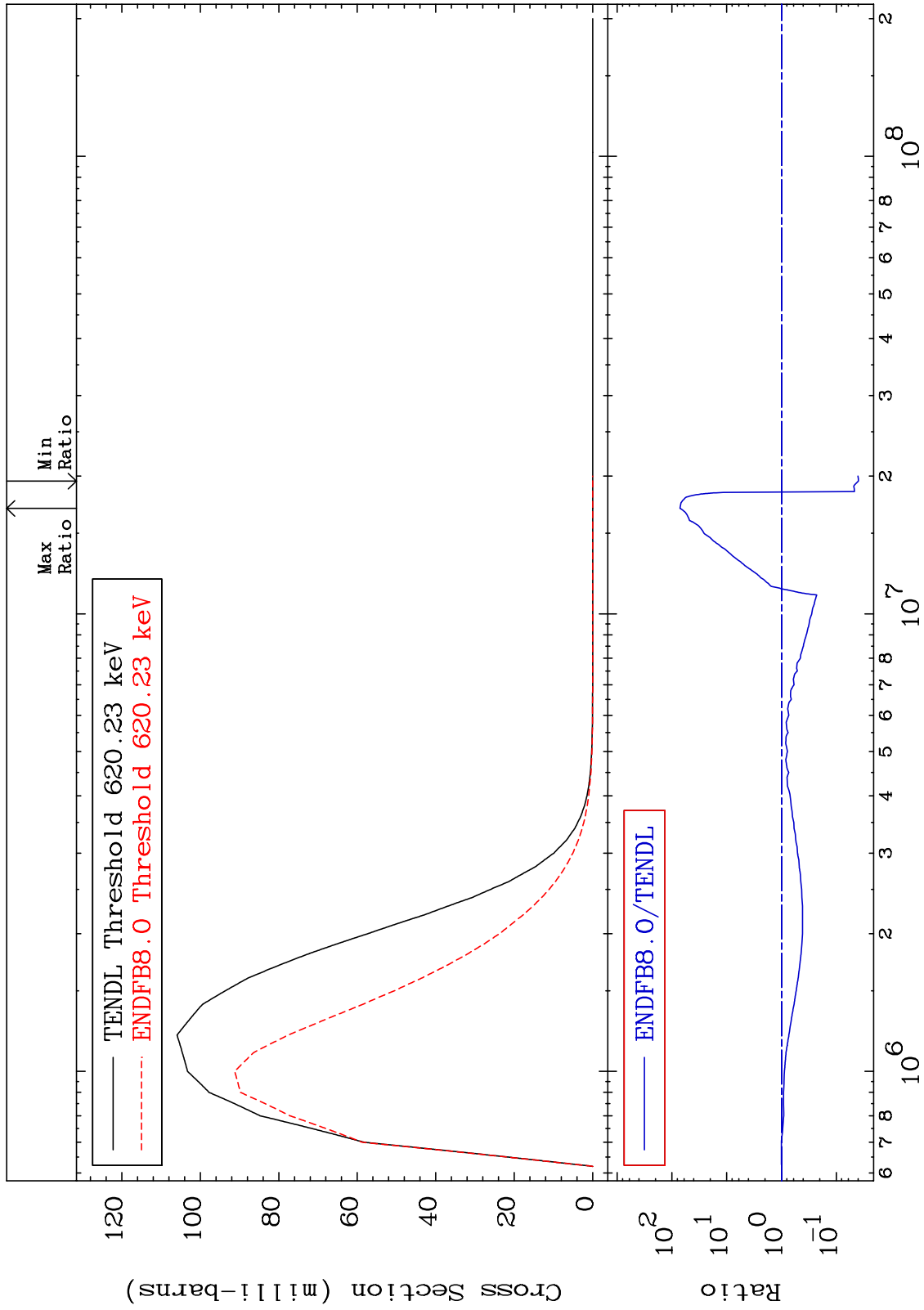


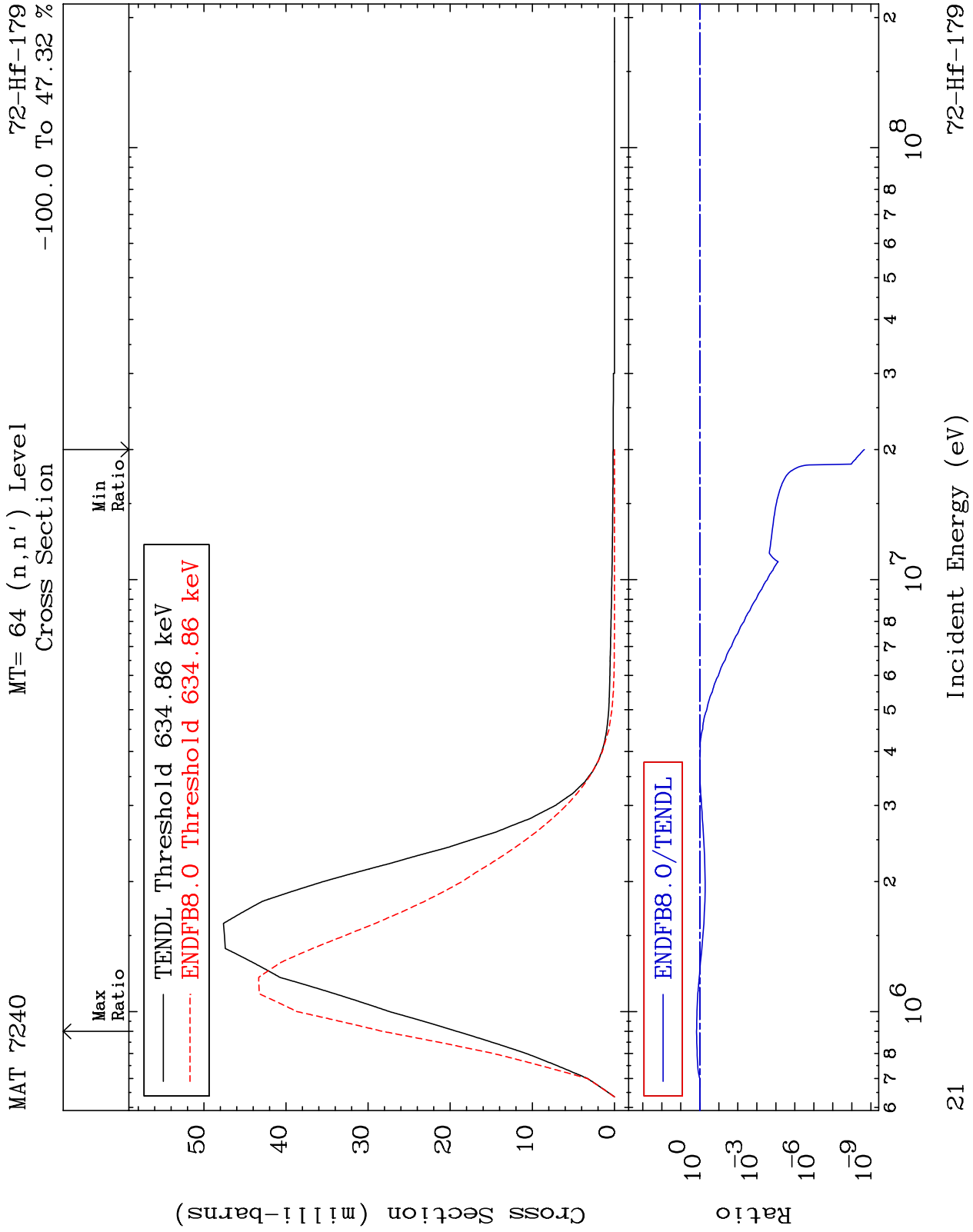
19

Incident Energy (eV)

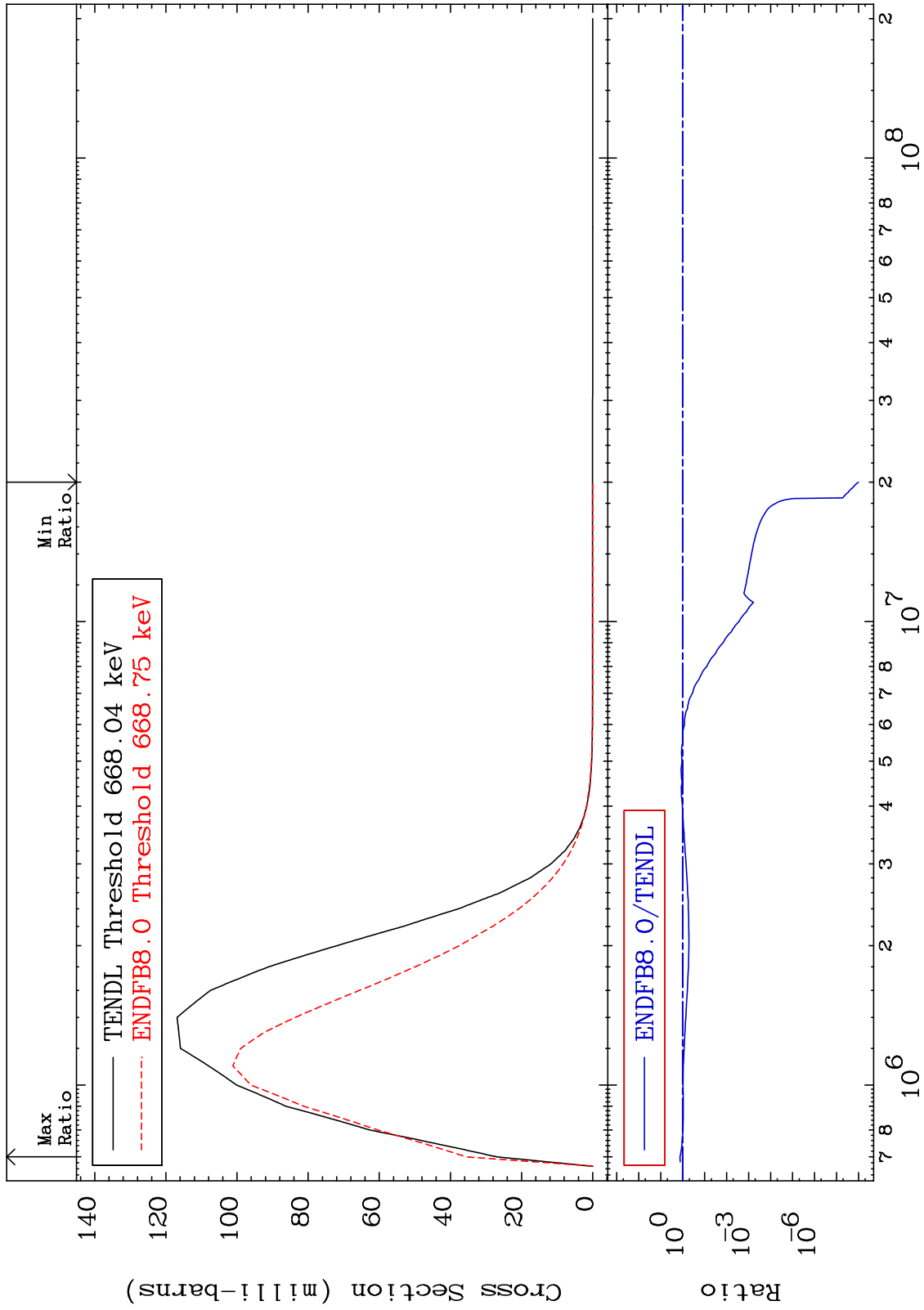
<sup>72</sup>Hf-179

MAT 7240 MT= 63 (n,n') Level 72-Hf-179  
 Cross Section -96.06 To 7027. %





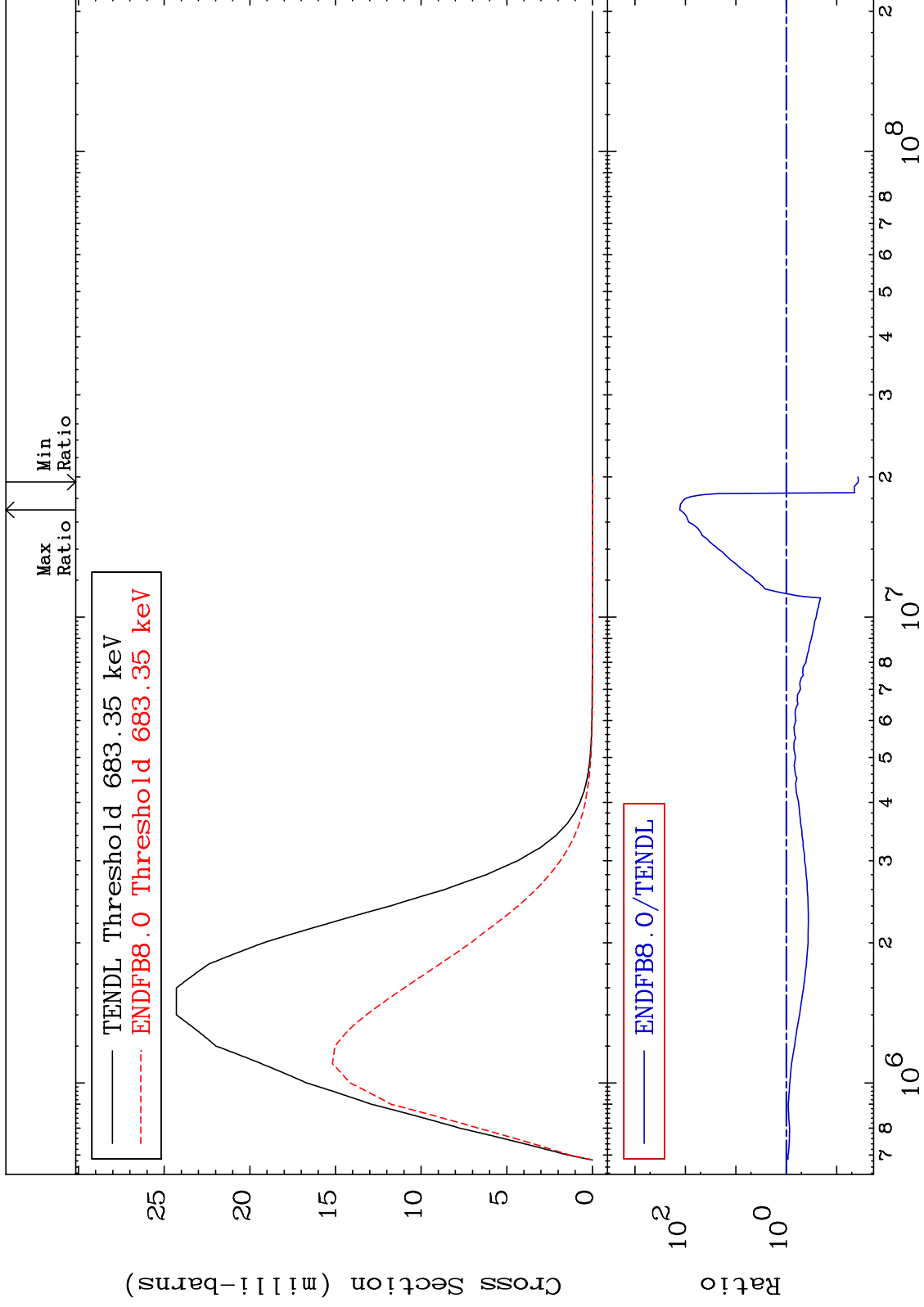
MAT 7240 MT= 65 (n,n') Level Cross Section 72-Hf-179  
-100.0 To 31.84 %



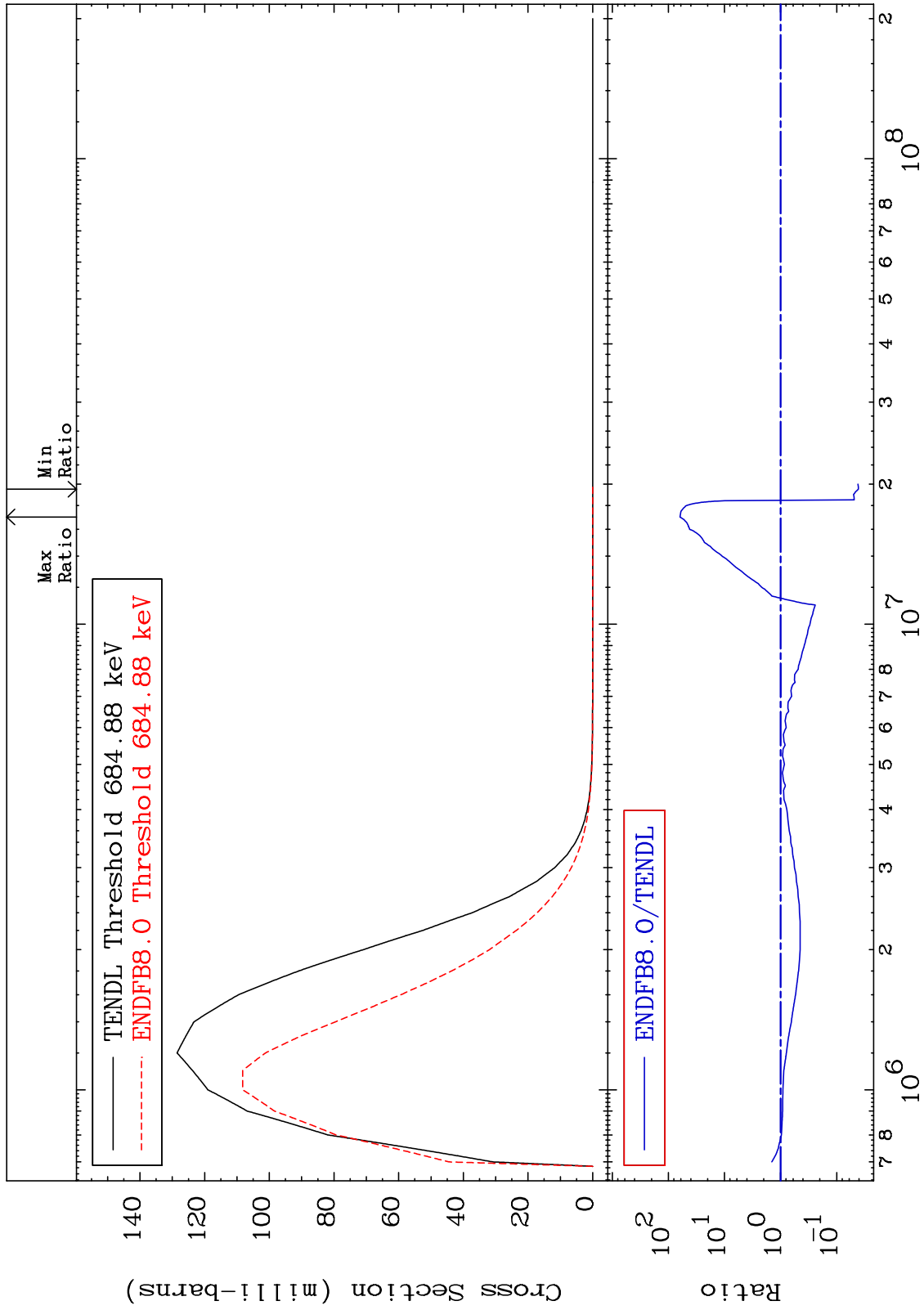
MAT 7240

MT= 66 (n,n') Level  
Cross Section

72-Hf-179  
-96.29 To 9999. %



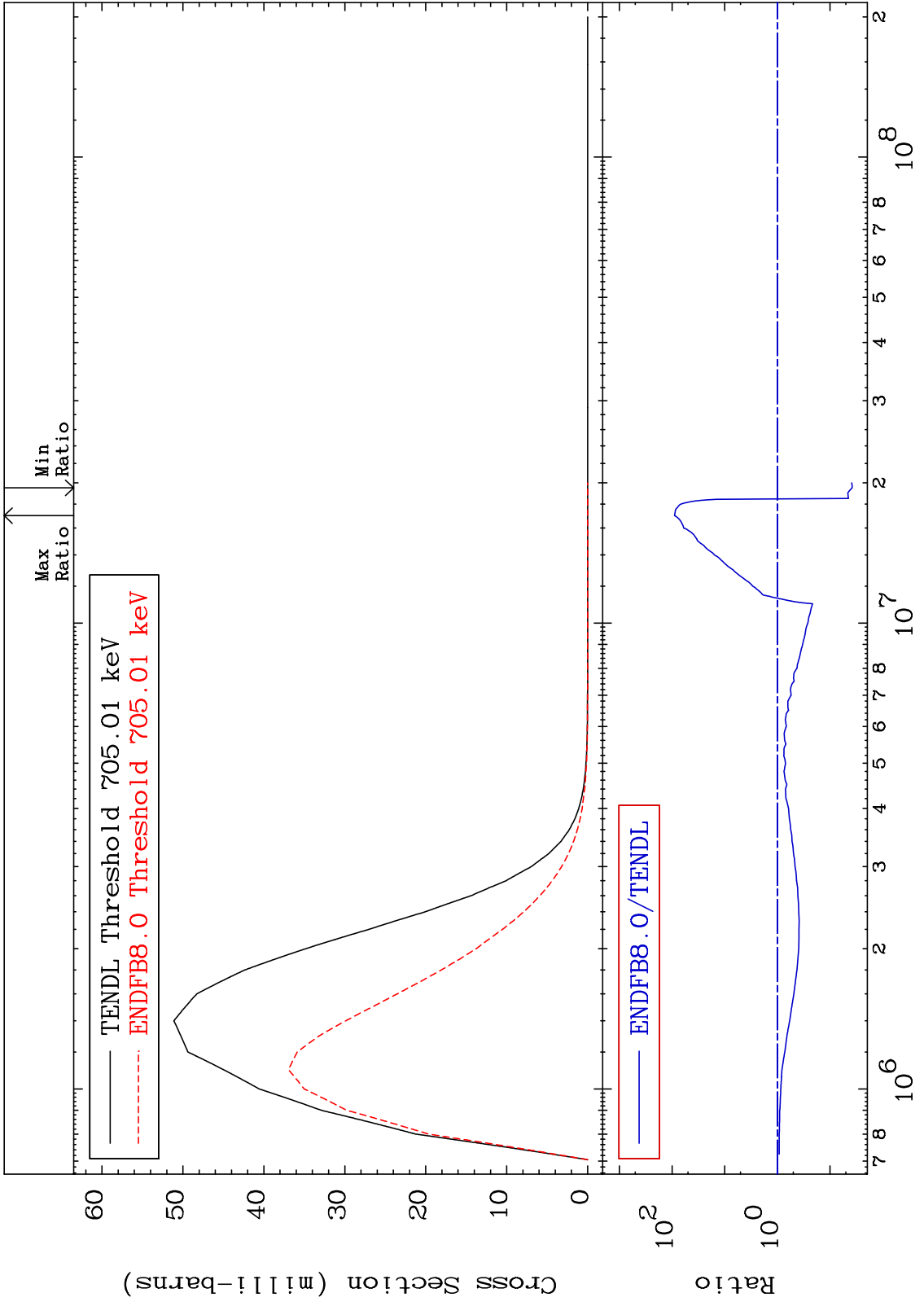
MAT 7240 MT= 67 (n, n') Level 72-Hf-179  
 Cross Section -95.90 To 6114. %



MAT 7240

MT= 68 (n,n') Level  
Cross Section

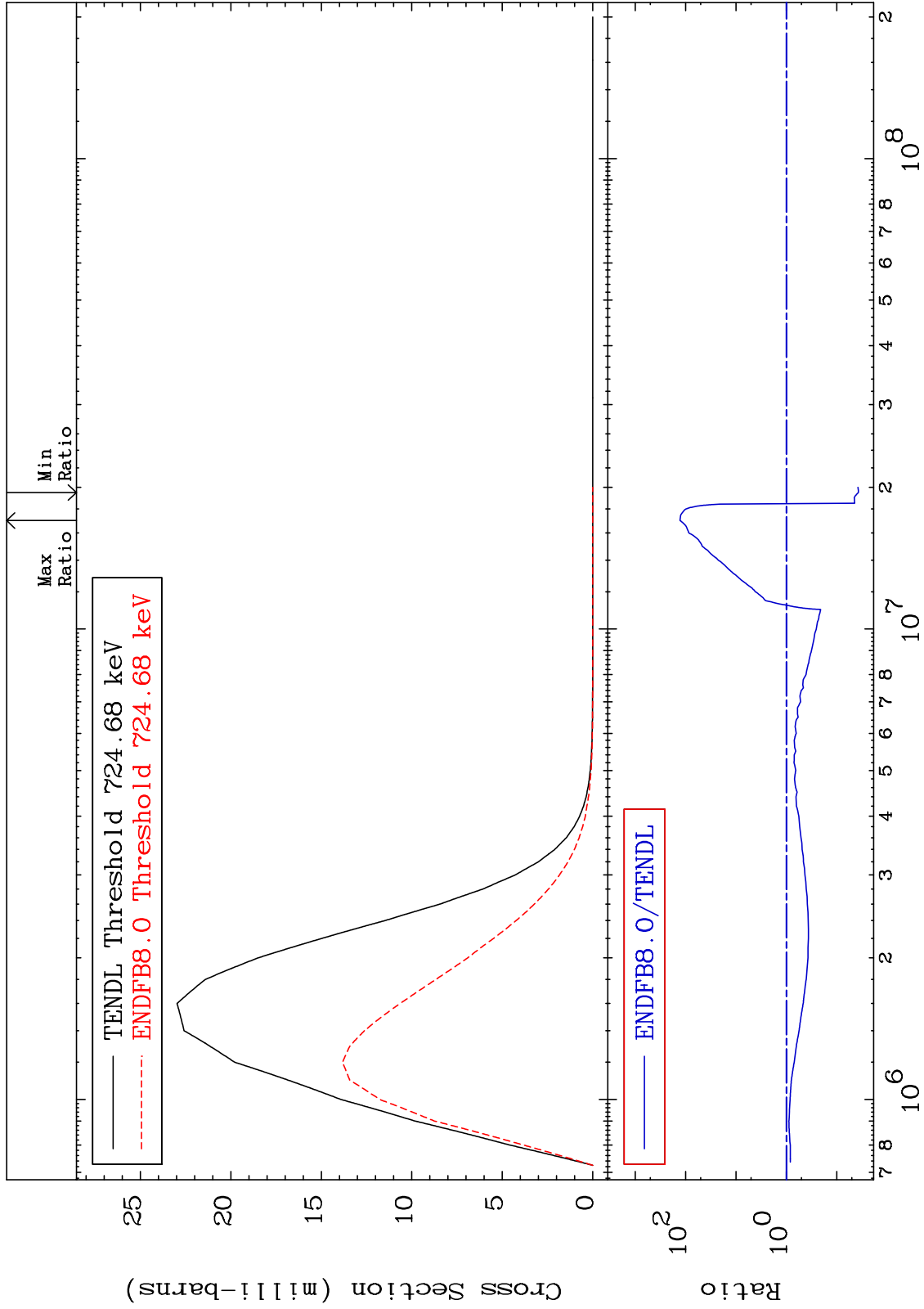
72-Hf-179  
-96.19 To 8869. %



MAT 7240

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

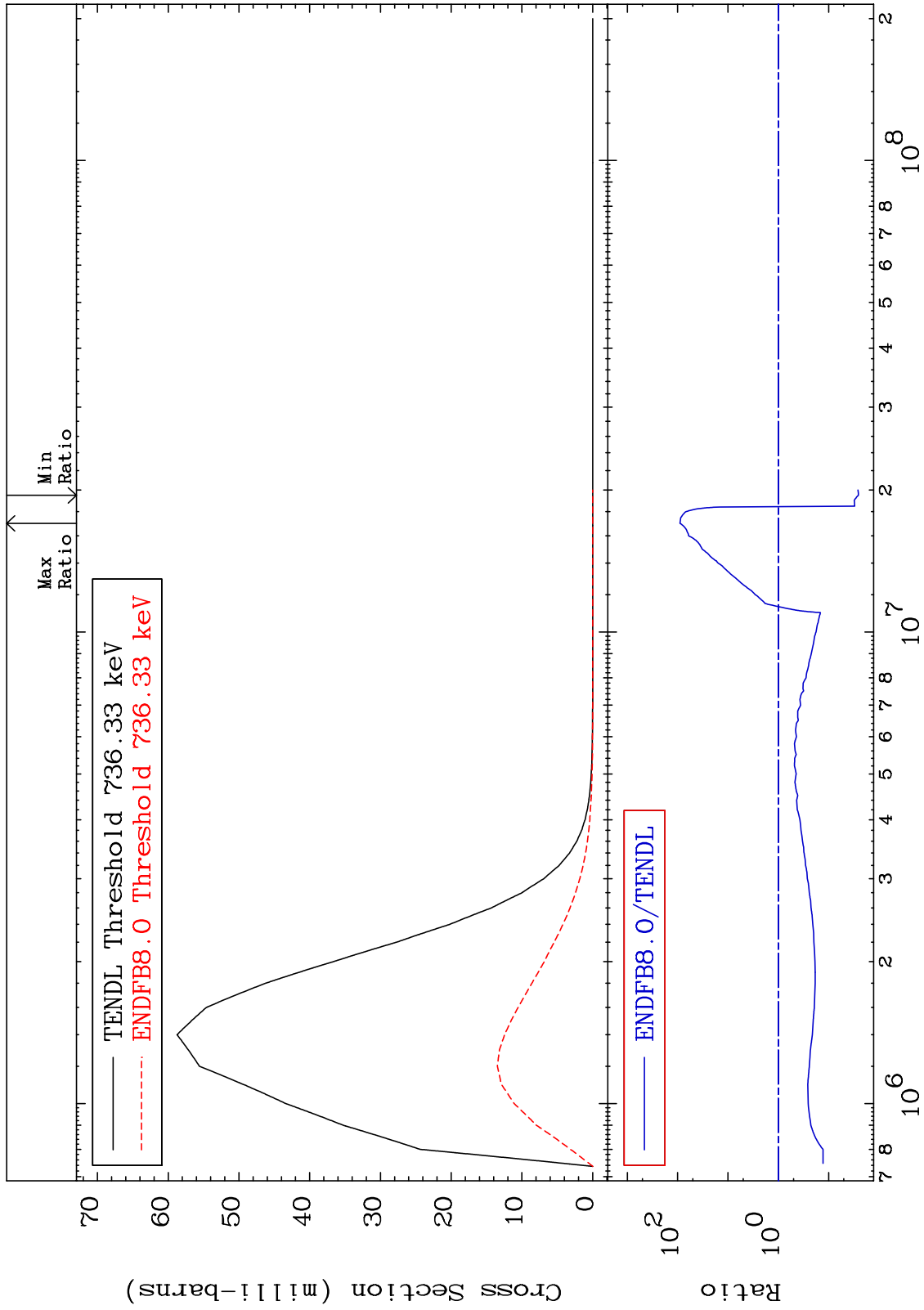
<sup>72</sup>Hf-179  
-96.29 To 9999. %



MAT 7240

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

<sup>72</sup>Hf-179  
-97.43 To 8870. %



27

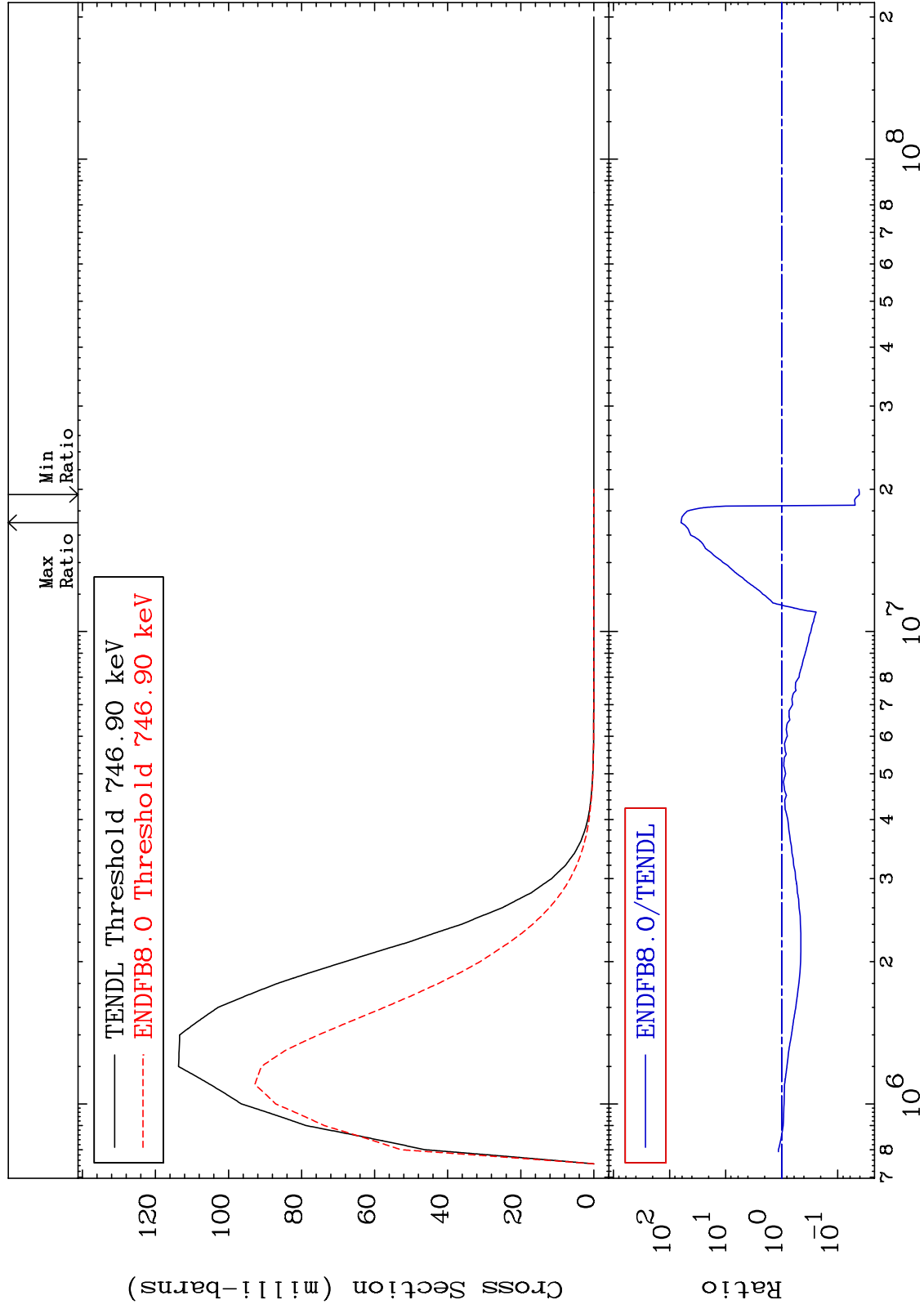
Incident Energy (eV)

<sup>72</sup>Hf-179

MAT 7240

MT= 71 (n,n') Level  
Cross Section

72-Hf-179  
-95.90 To 6131. %



28

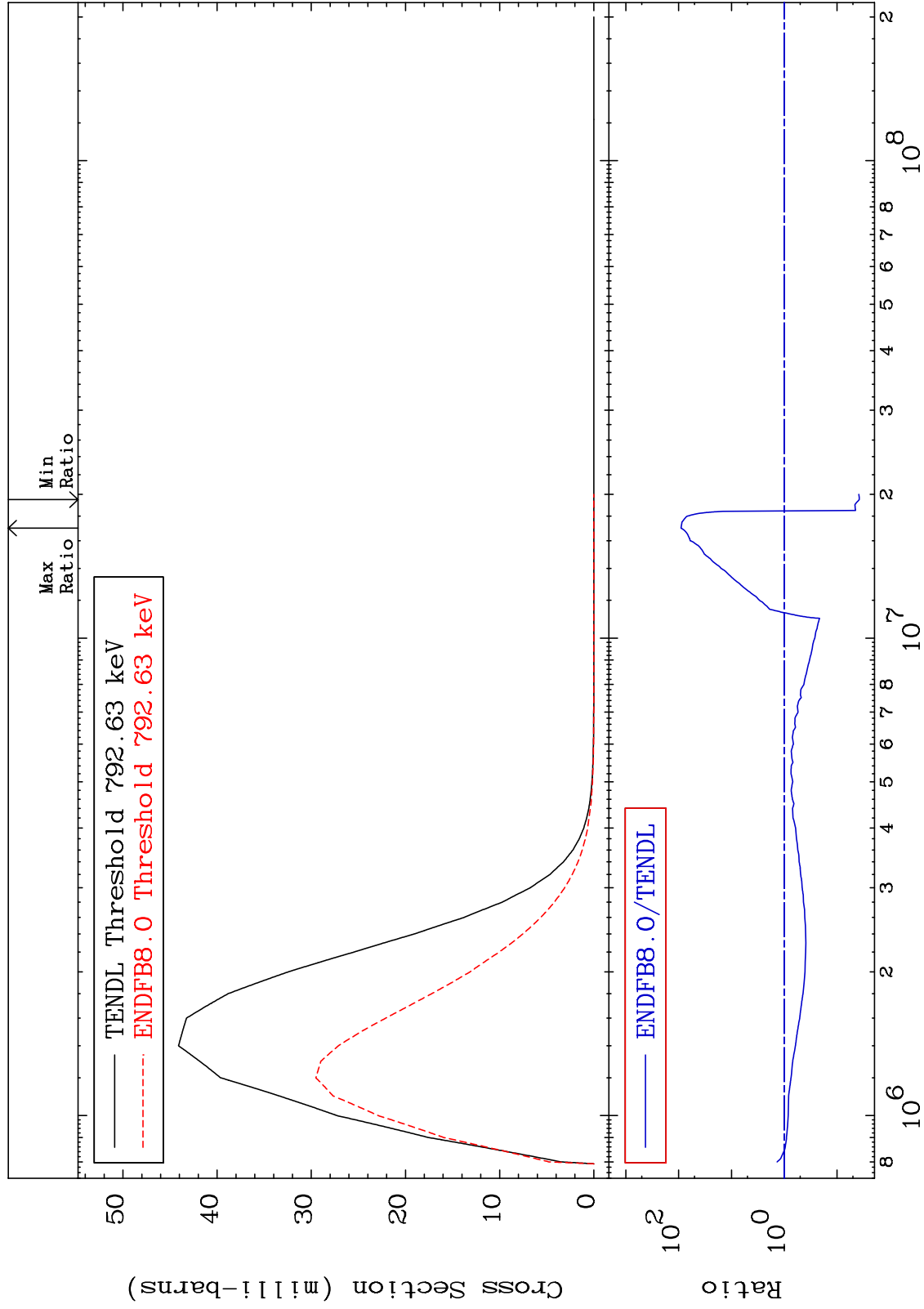
Incident Energy (eV)

72-Hf-179

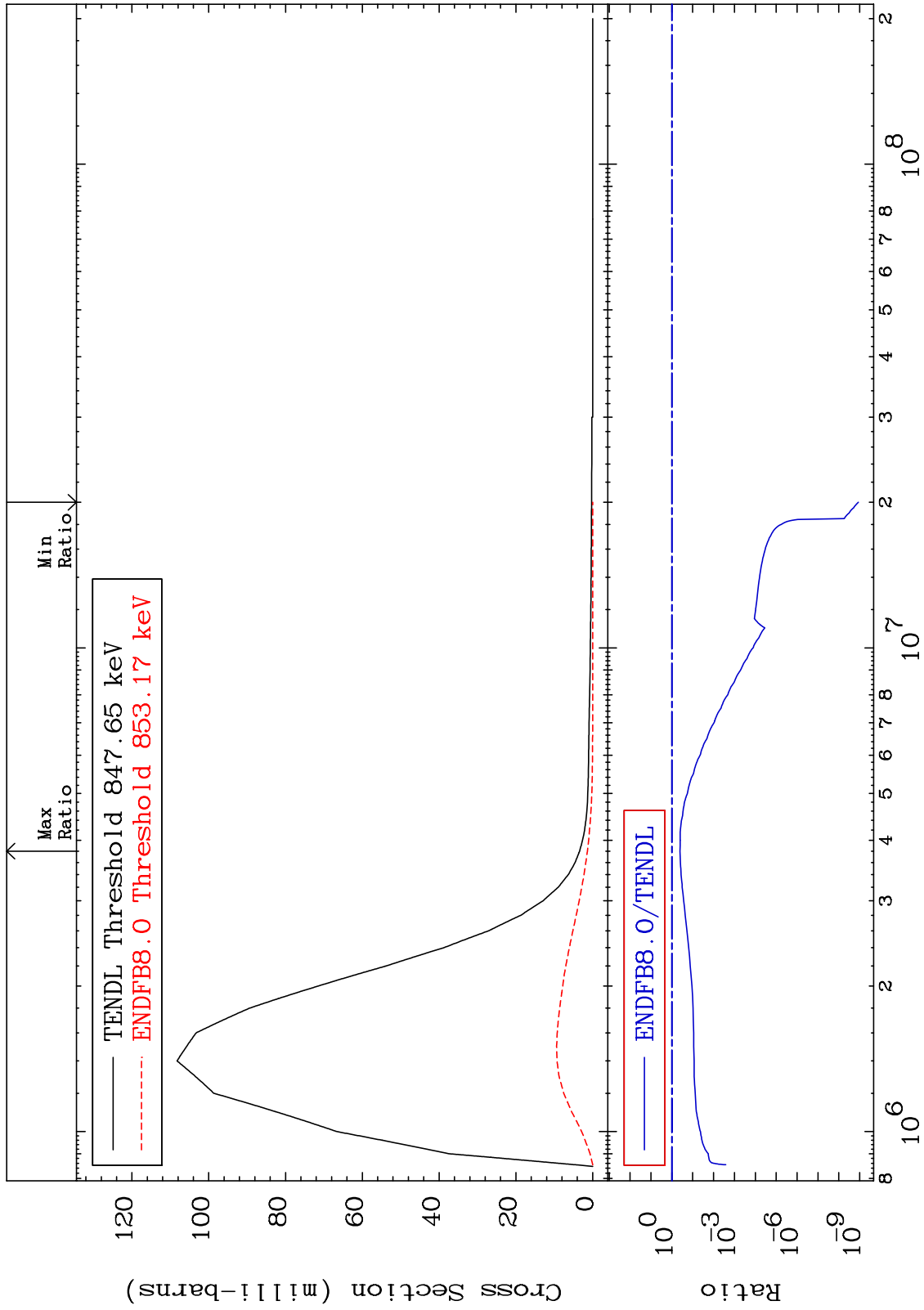
MAT 7240

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

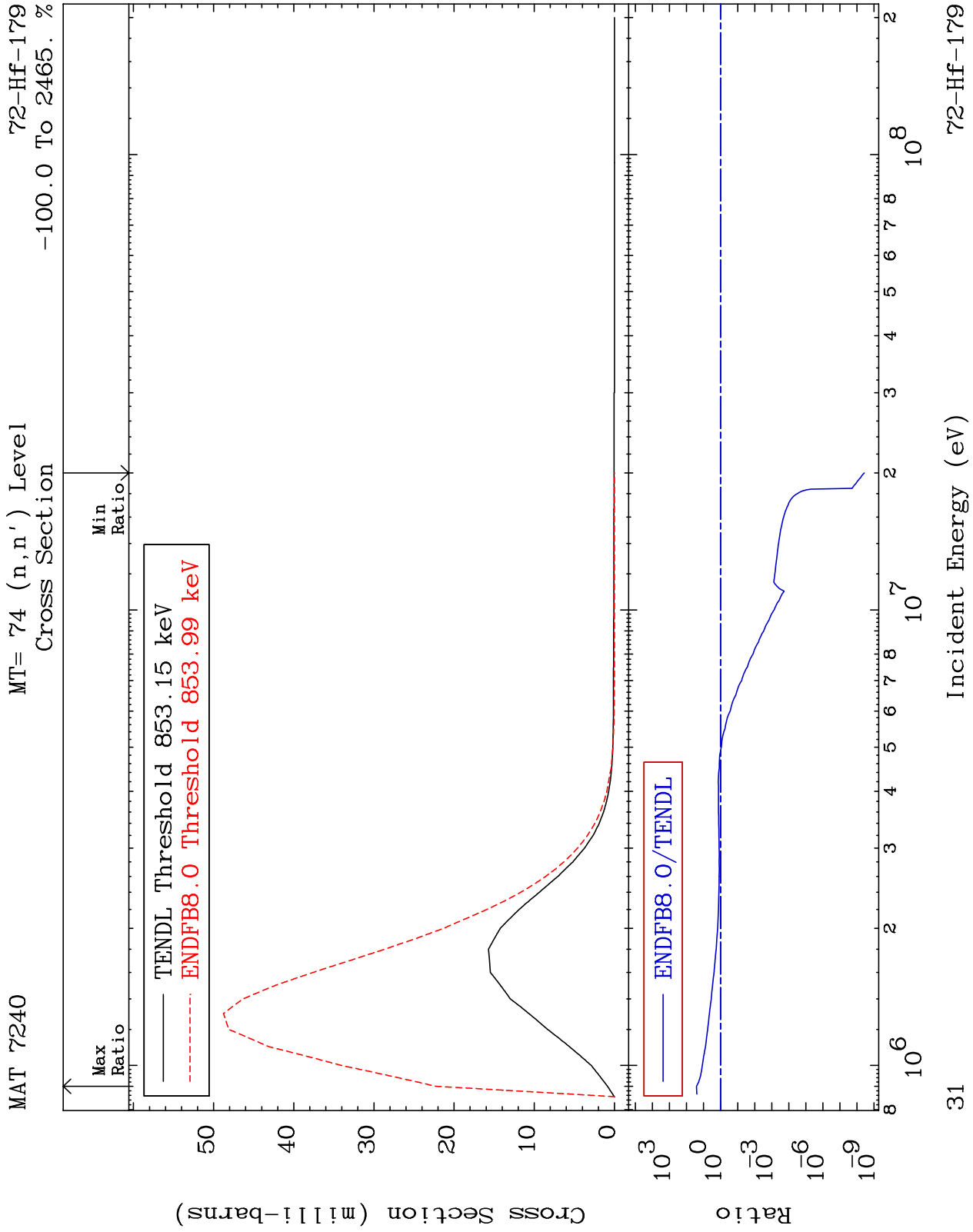
72-Hf-179  
-96.20 To 8903. %



MAT 7240 MT= 73 (n,n') Level Cross Section 72-Hf-179 -100.0 To -59.59%



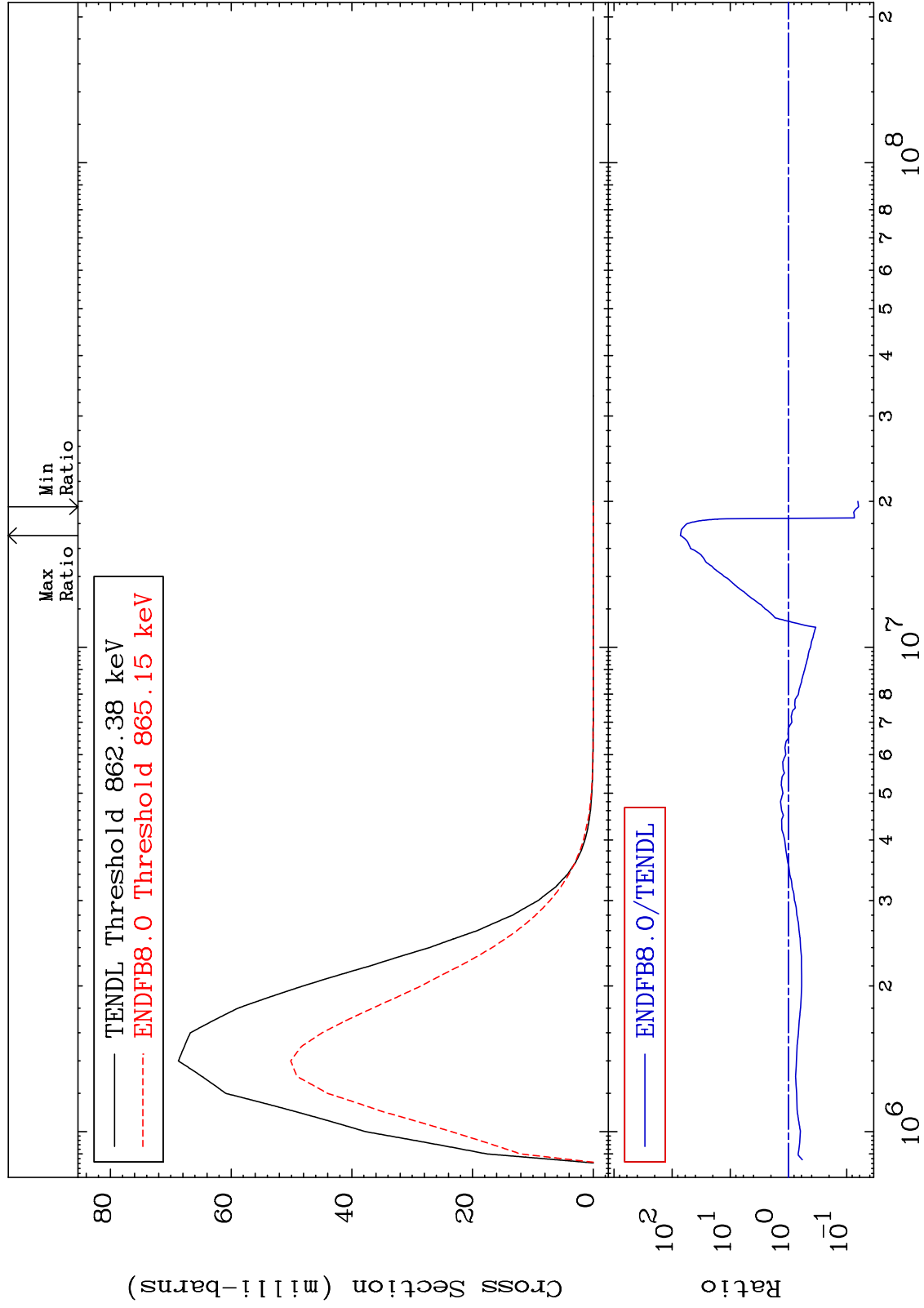
30 Incident Energy (eV) 72-Hf-179



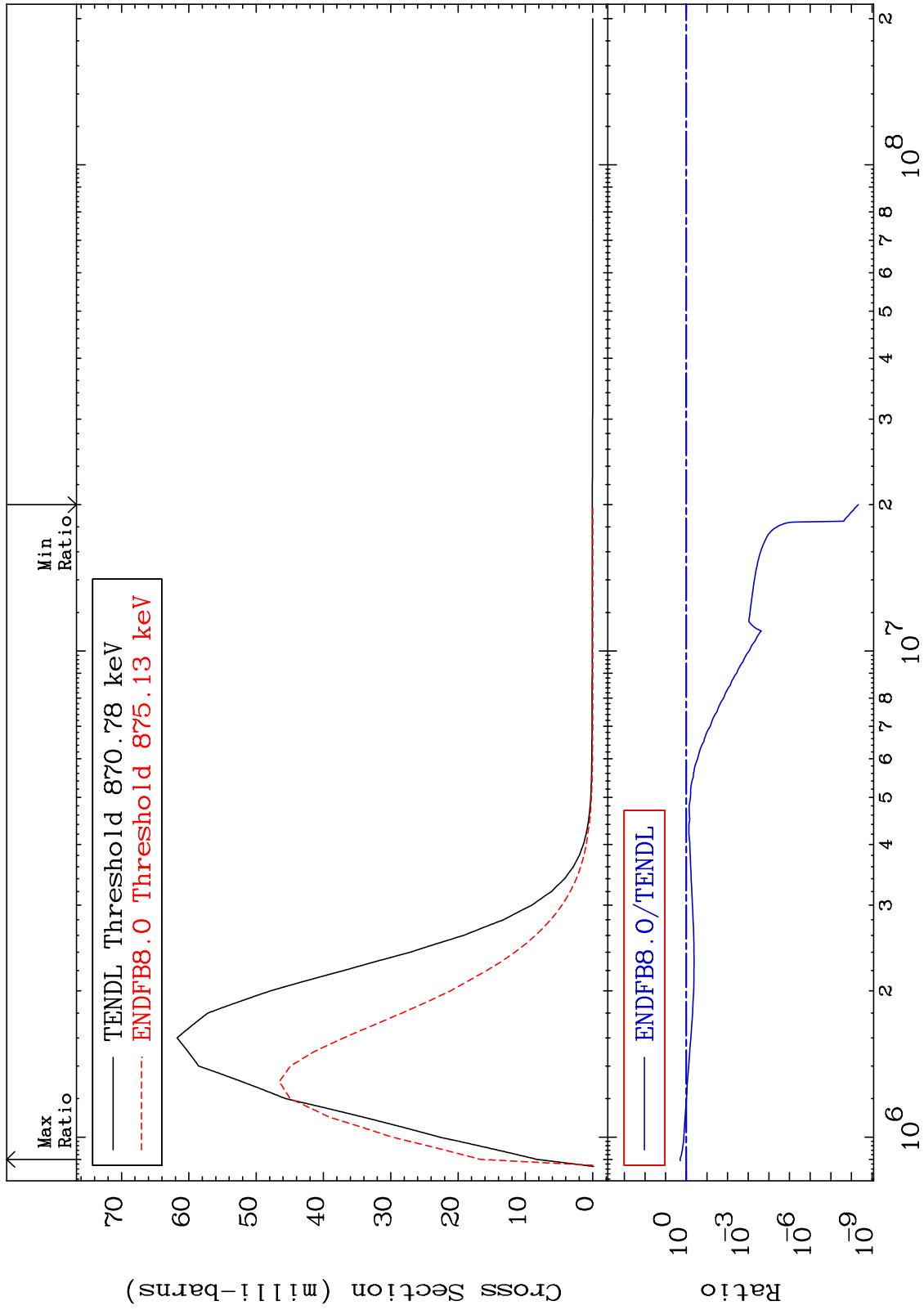
MAT 7240

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

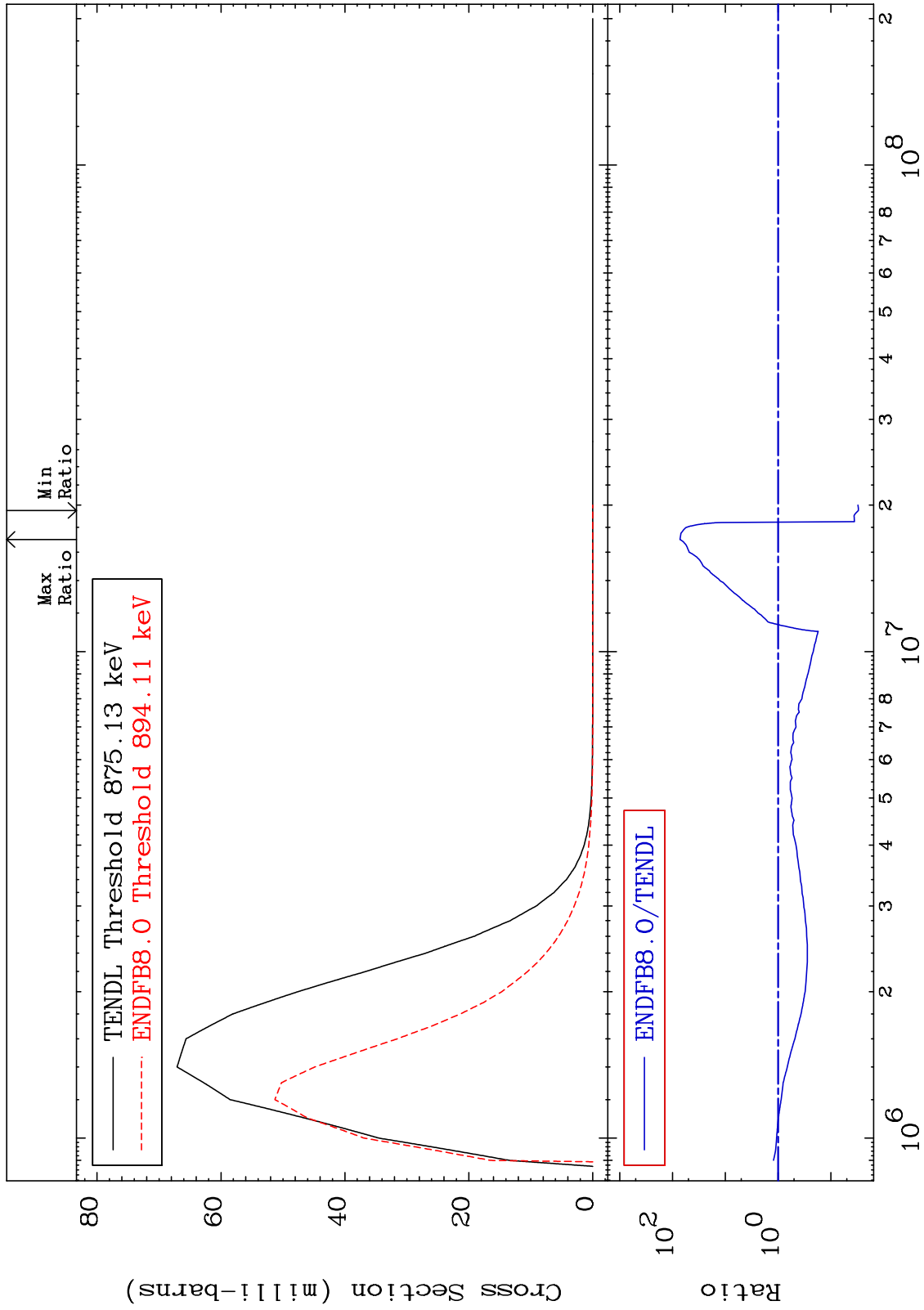
72-Hf-179  
-93.76 To 7105. %



MAT 7240 MT= 76 (n,n') Level Cross Section -100.0 To 101.5 % 72-Hf-179



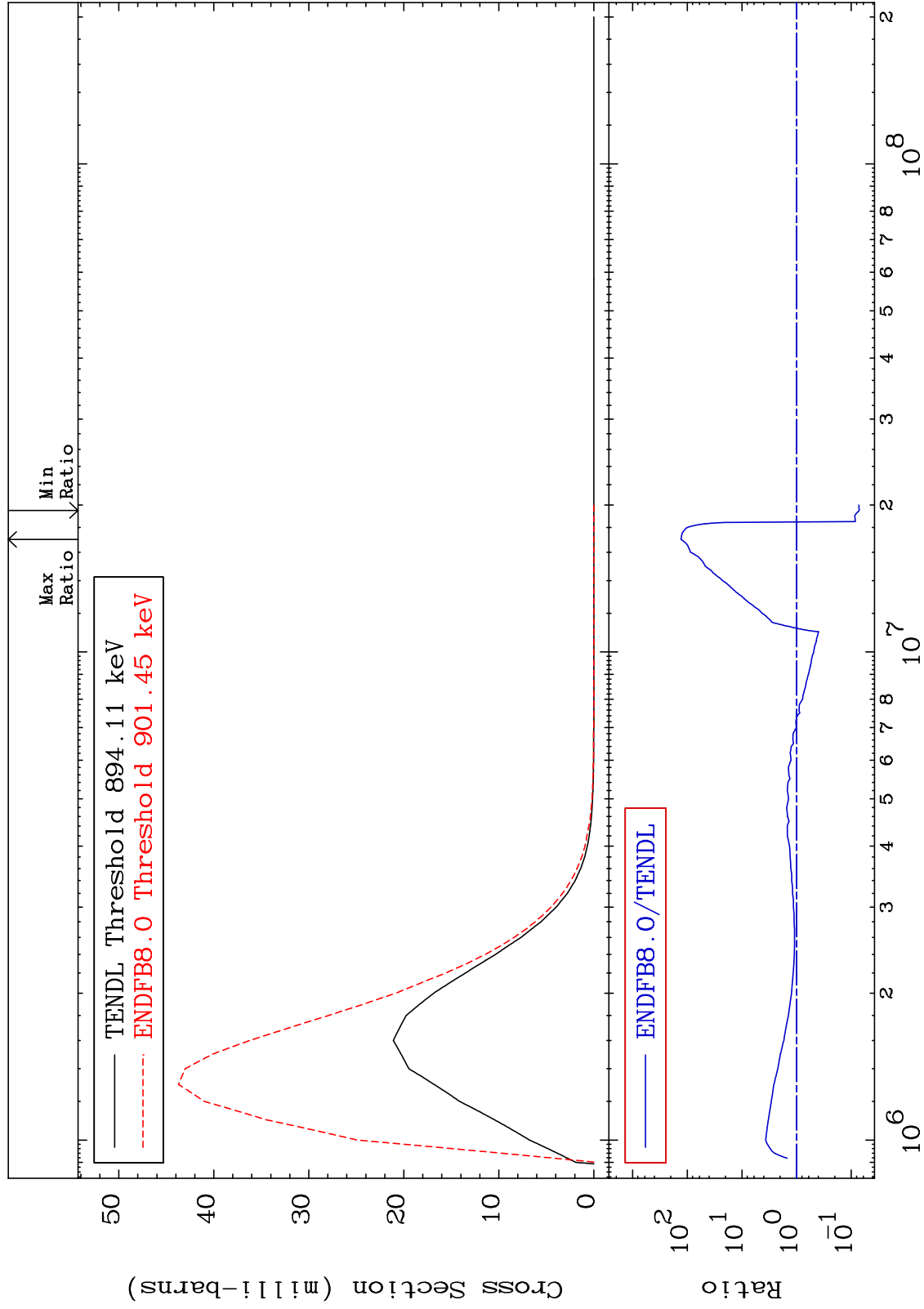
MAT 7240 MT= 77 (n,n') Level 72-Hf-179  
 Cross Section -96.99 To 7105. %



MAT 7240

MT= 78 (n,n') Level  
Cross Section

72-Hf-179  
-92.86 To 9999. %



35

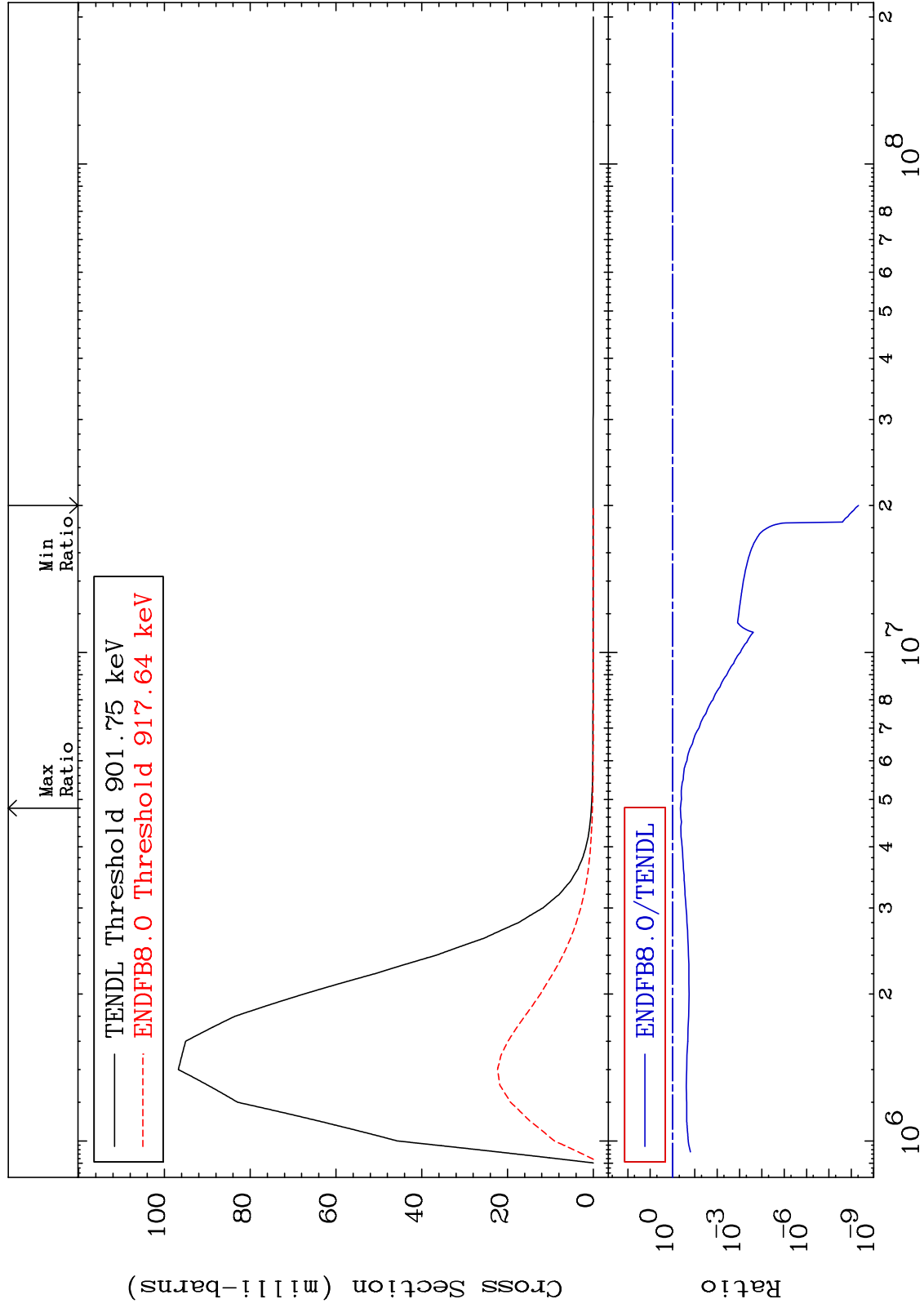
Incident Energy (eV)

72-Hf-179

MAT 7240

MT= 79 (n,n') Level  
Cross Section

<sup>72</sup>Hf-179  
-100.0 To -55.91%



36

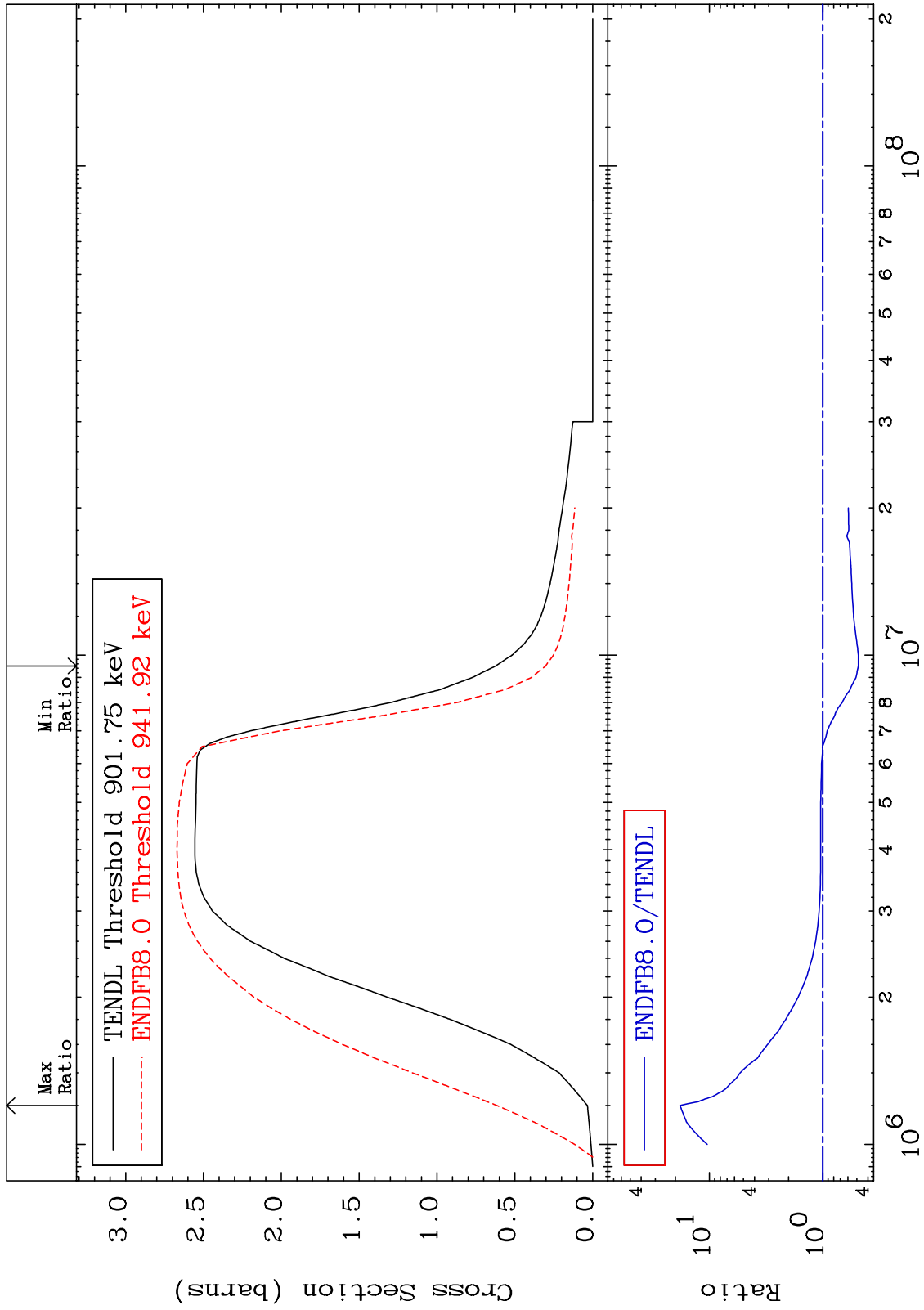
Incident Energy (eV)

<sup>72</sup>Hf-179

MAT 7240

(n, n') Continuum  
Cross Section

<sup>72</sup>Hf-179  
-51.53 To 1716. %



37

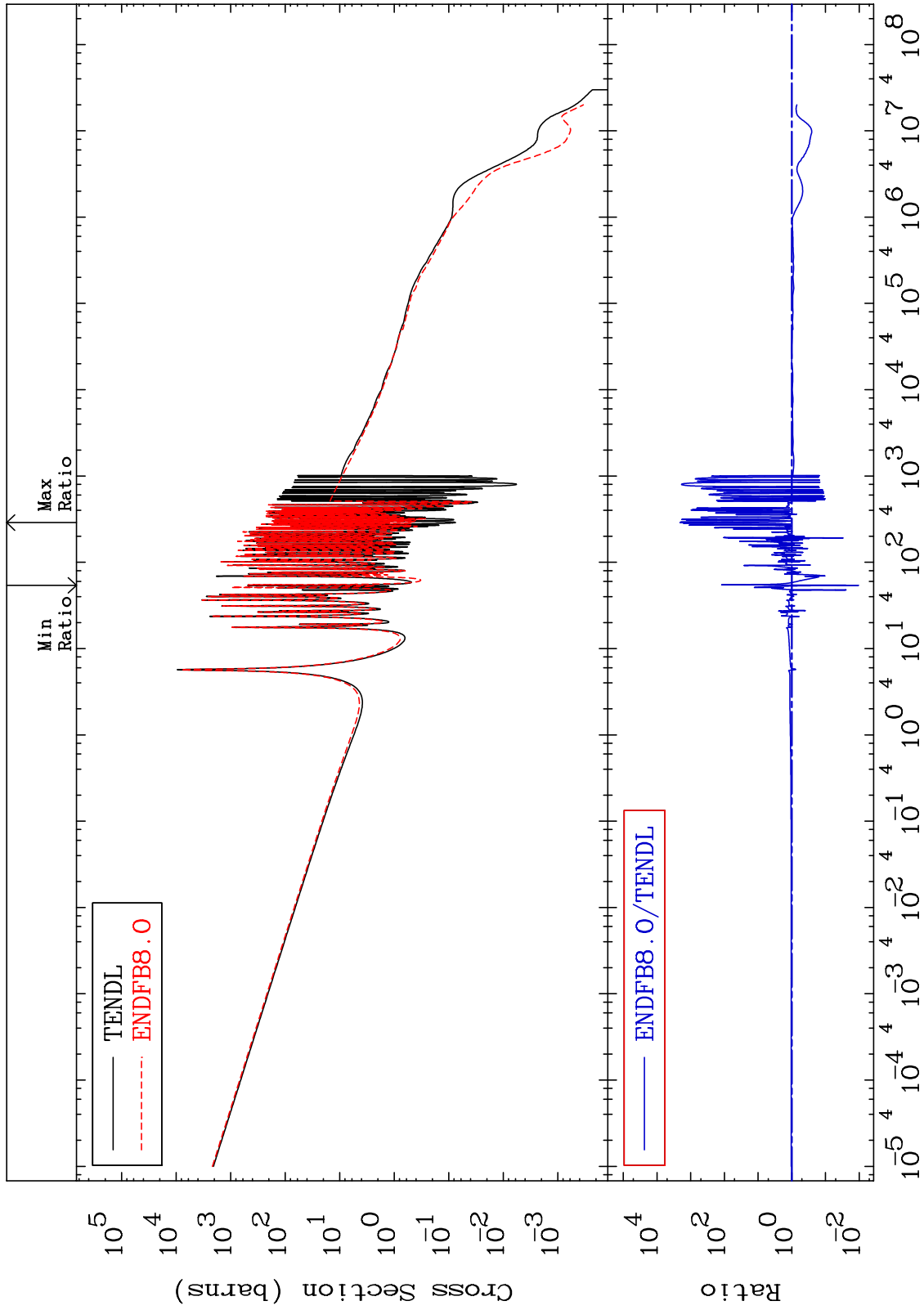
Incident Energy (eV)

<sup>72</sup>Hf-179

MAT 7240

(n,  $\gamma$ )  
Cross Section

72-Hf-179  
-98.94 To 9999. %



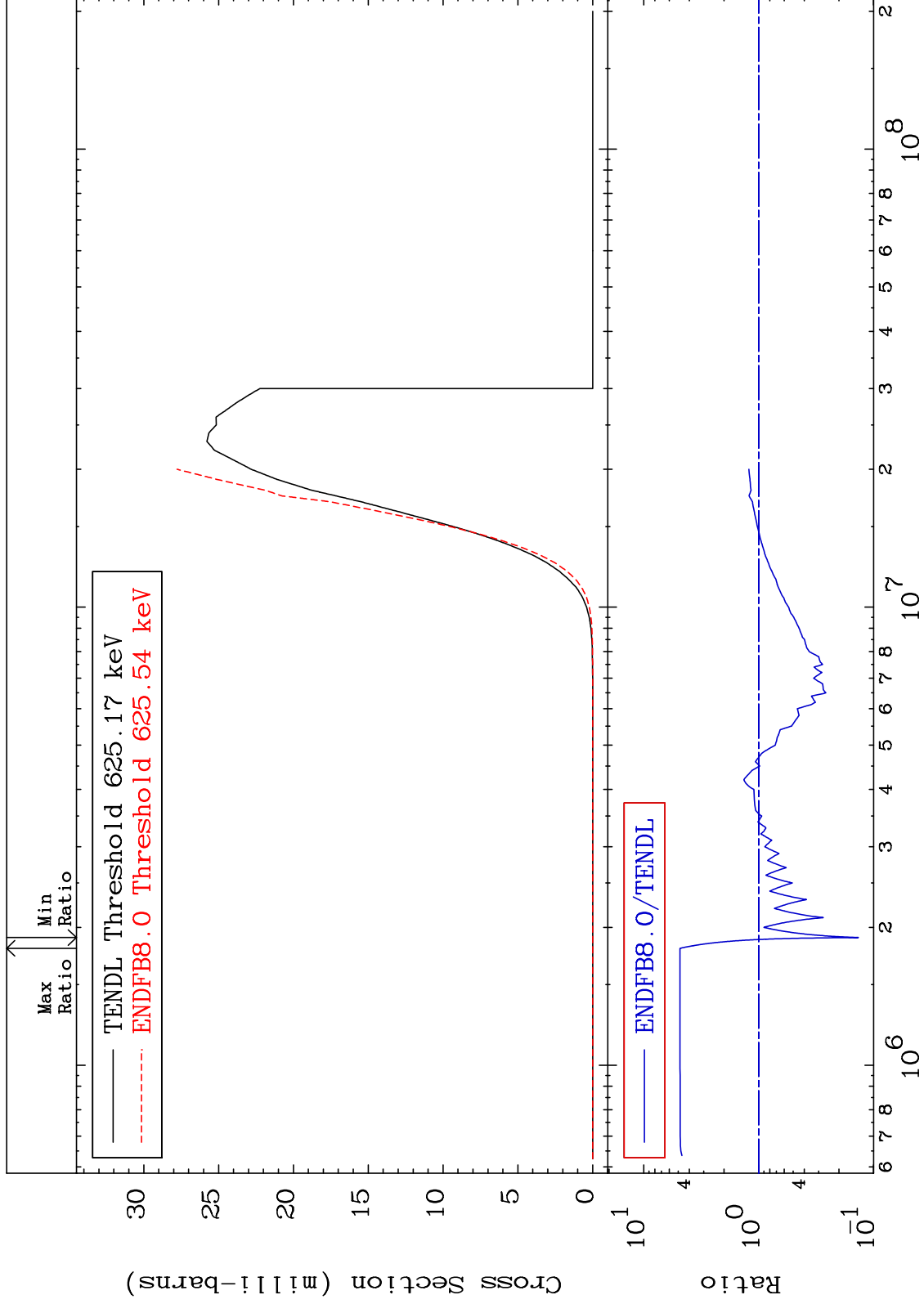
MAT 7240

(n, p)

72-Hf-179

Cross Section

-86.46 To 383.1 %



39

72-Hf-179

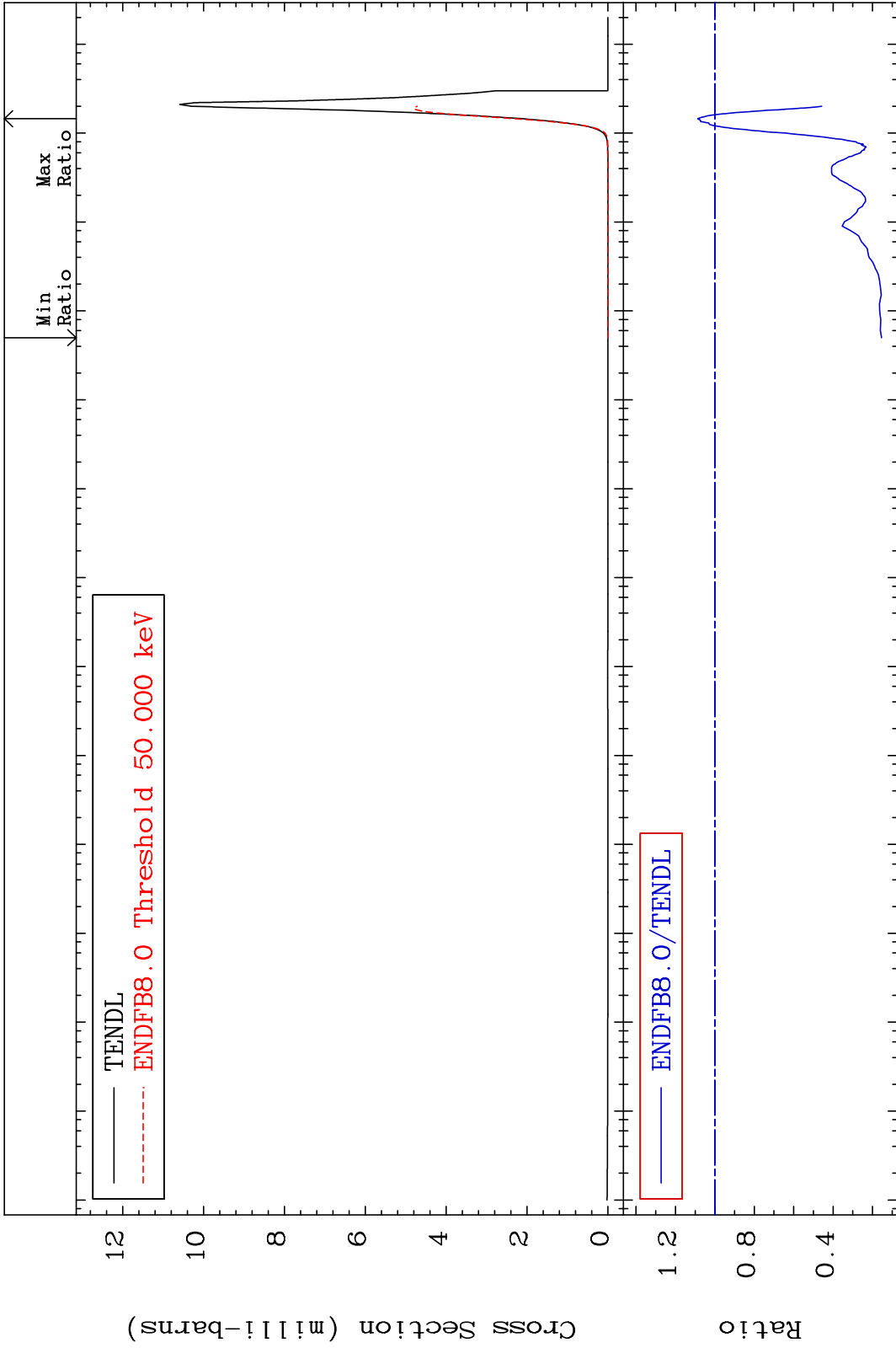
MAT 7240

(n,  $\alpha$ )

72-Hf-179

Cross Section

-84.58 To 8.665 %



40

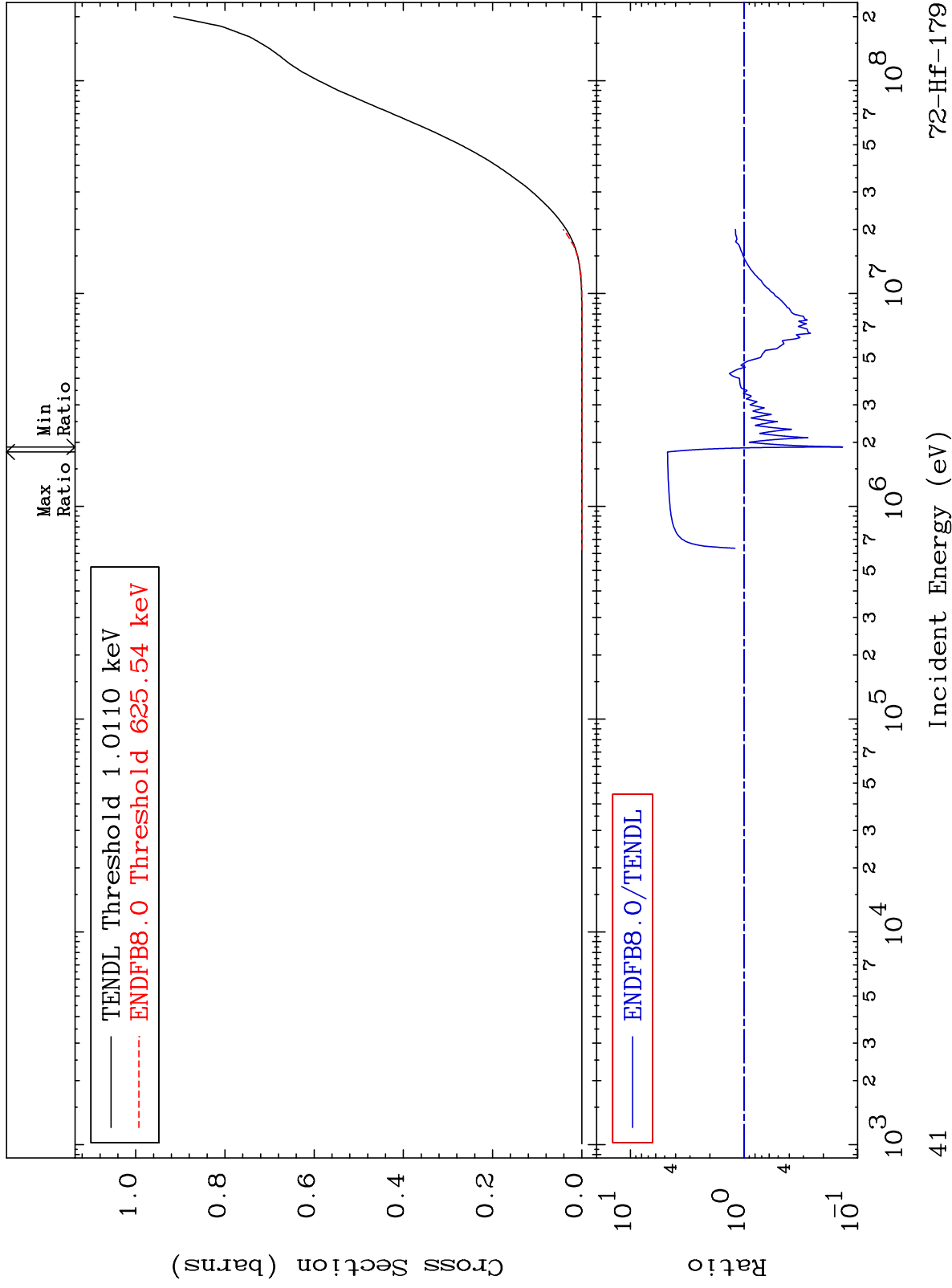
Incident Energy (eV)

72-Hf-179

MAT 7240

Hydrogen Production  
Cross Section

72-Hf-179  
-86.47 To 371.9 %



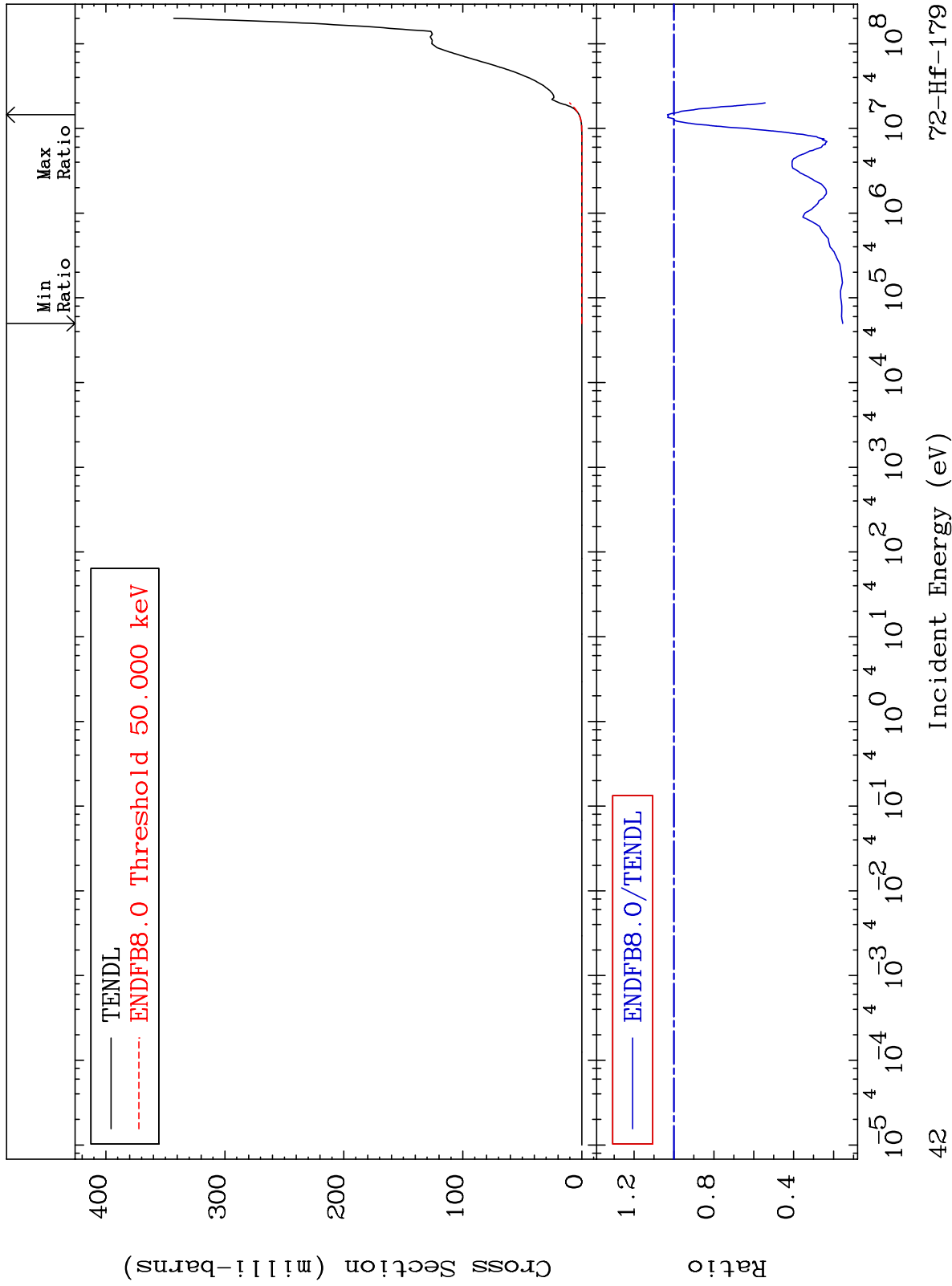
41

72-Hf-179

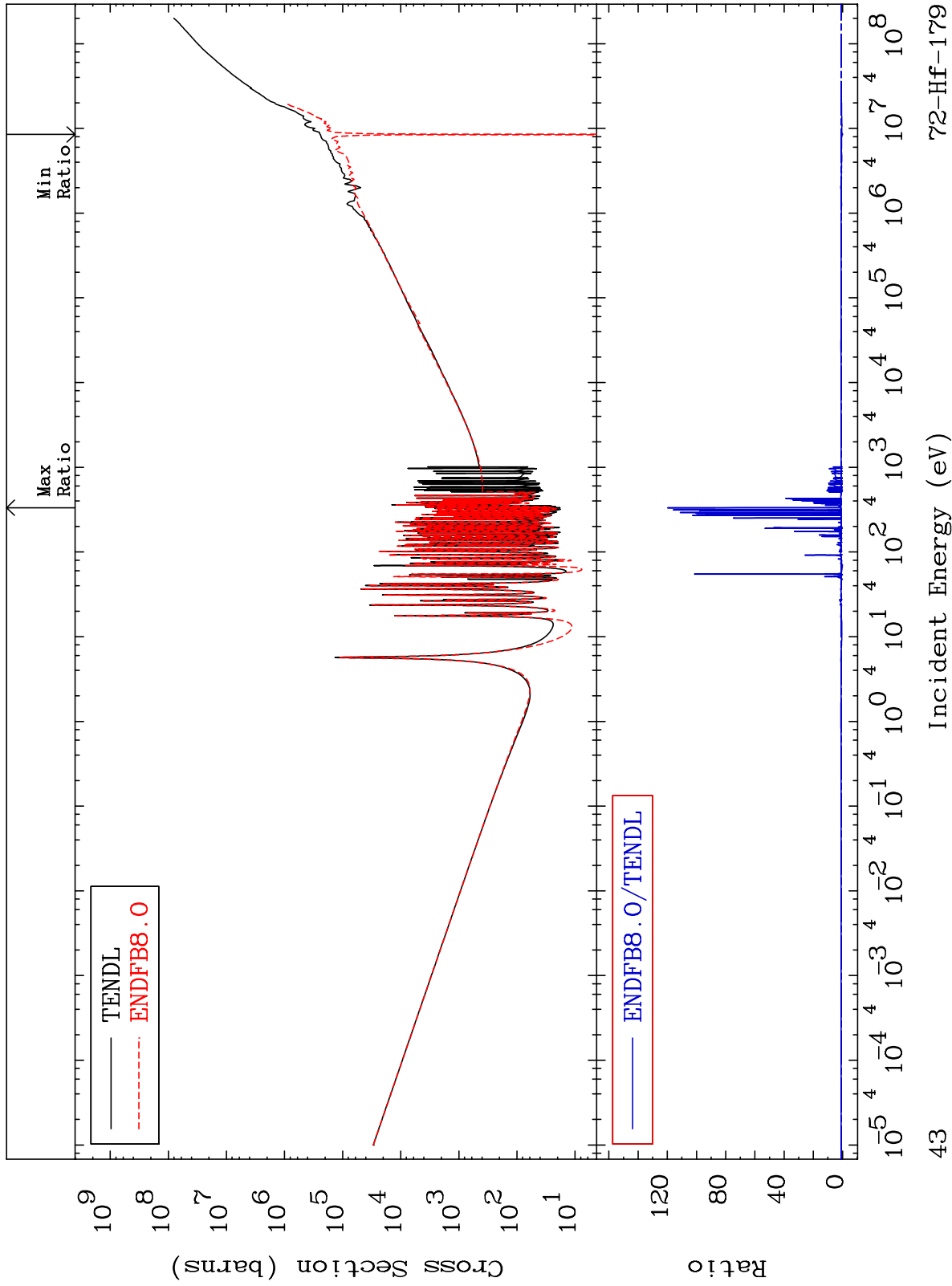
MAT 7240

He-4 Production  
Cross Section

72-Hf-179  
-84.58 To 3.222 %



MAT 7240      Kerma total (eV-barns)      72-Hf-179  
Cross Section      -108.8 To 9999. %



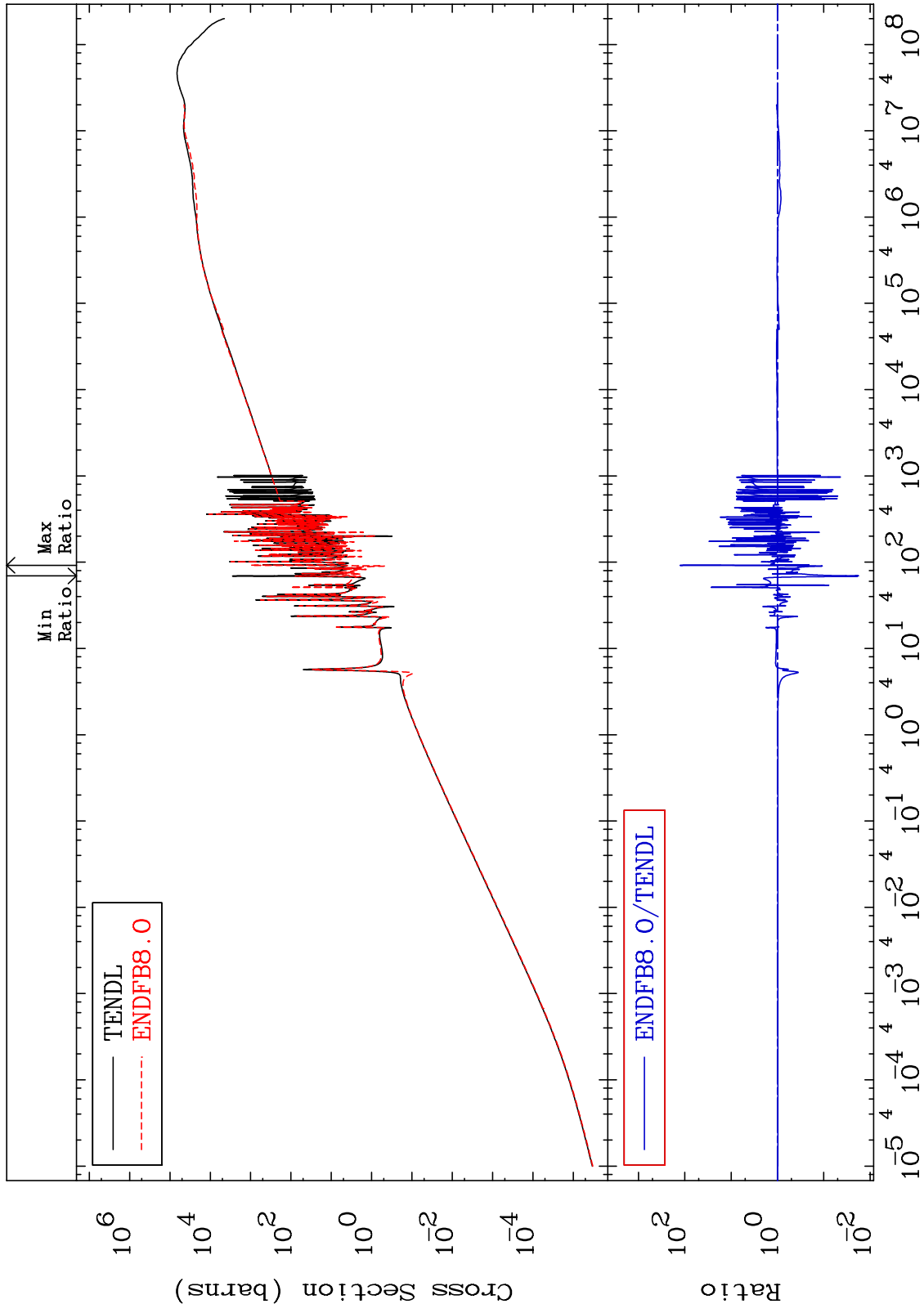
72-Hf-179

Incident Energy (eV)

MAT 7240

Kerma elastic  
Cross Section

72-Hf-179  
-98.22 To 9999. %



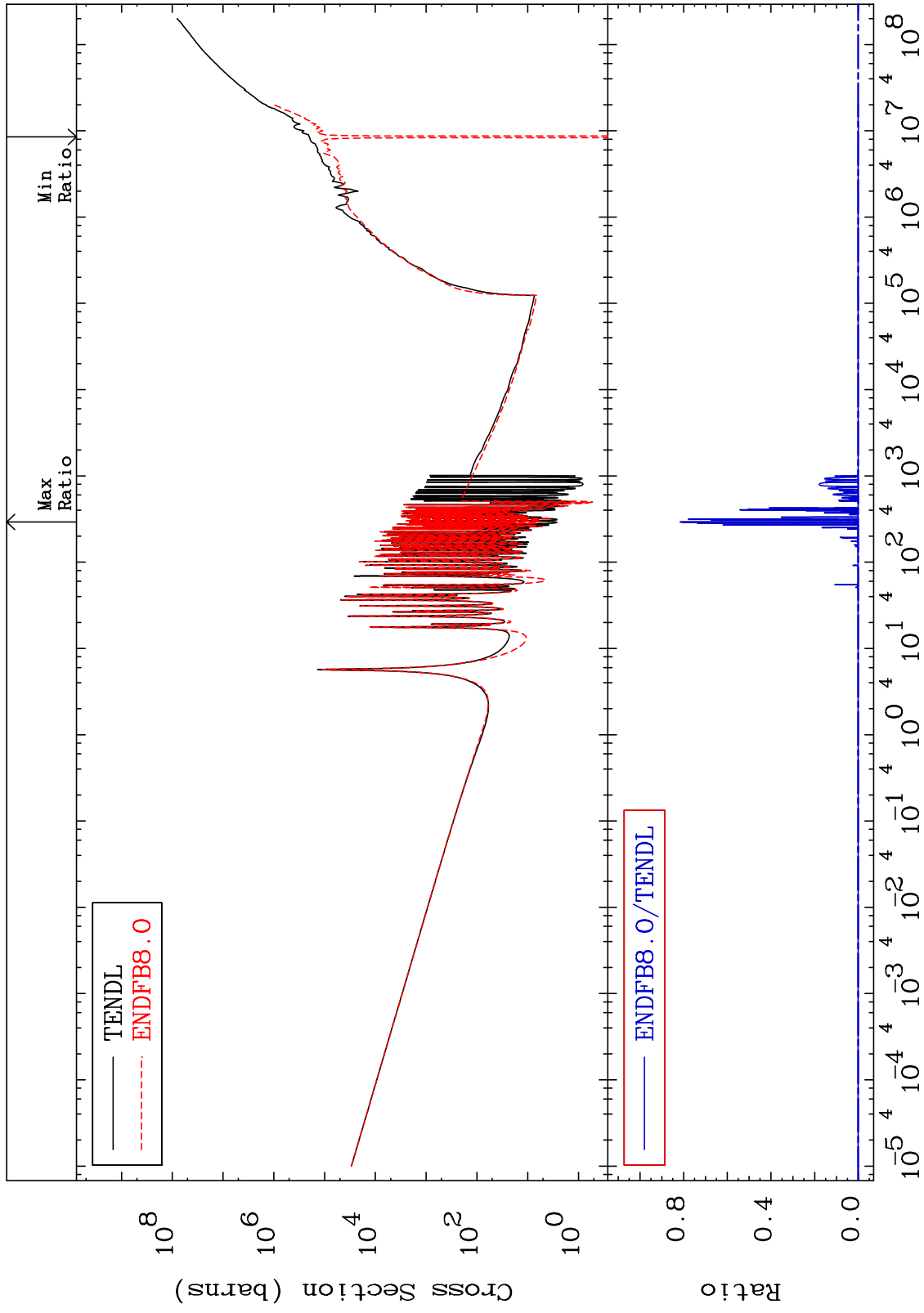
— TENDL  
- - - ENDFB8.0

— ENDFB8.0/TENDL

MAT 7240

Kerma non-elastic (all but mt2)  
Cross Section

72-Hf-179  
-130.8 To 9999. %



45

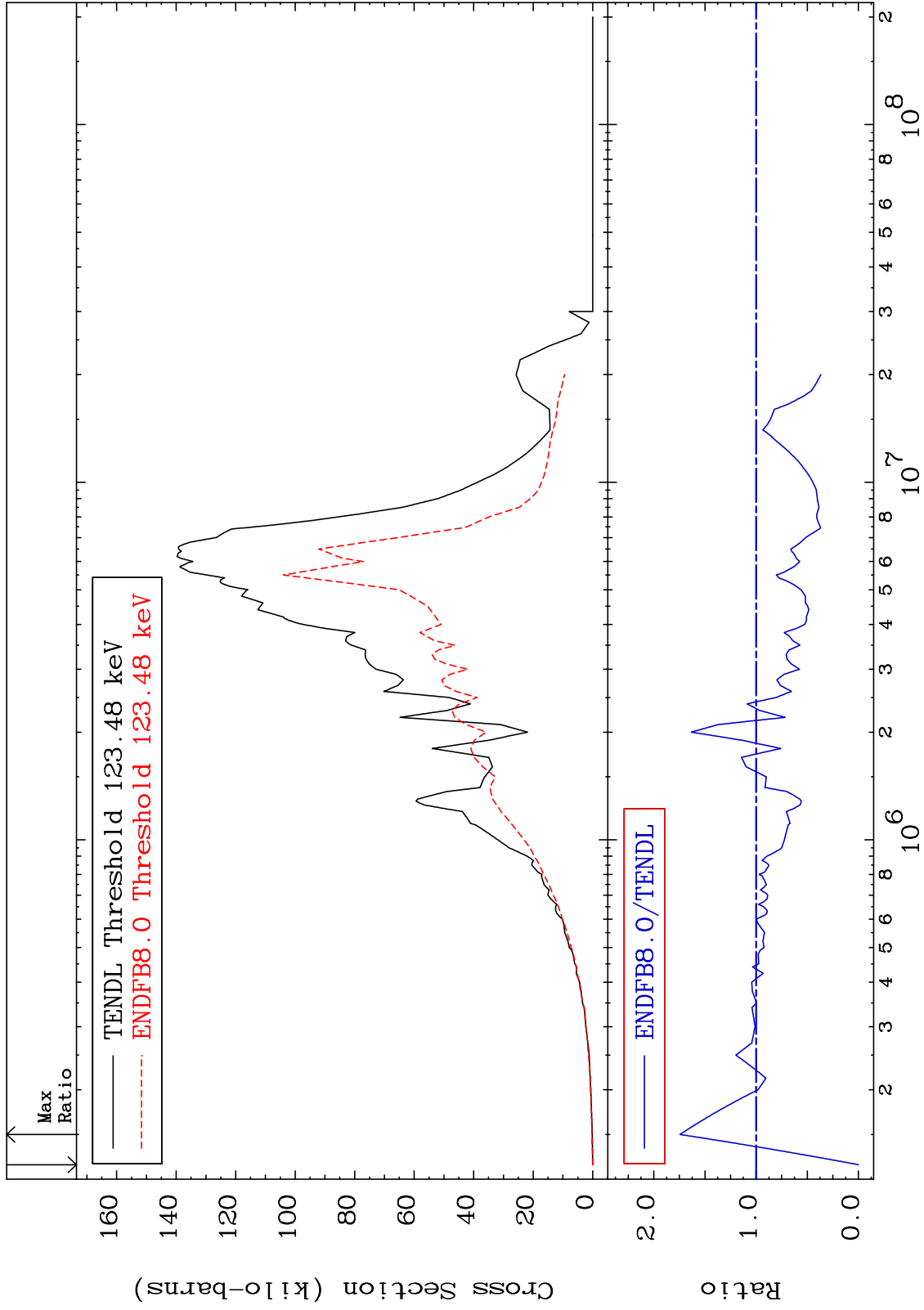
Incident Energy (eV)

72-Hf-179

MAT 7240

Kerma inelastic (mt51-91)  
Cross Section

72-Hf-179  
-100.0 To 74.34 %



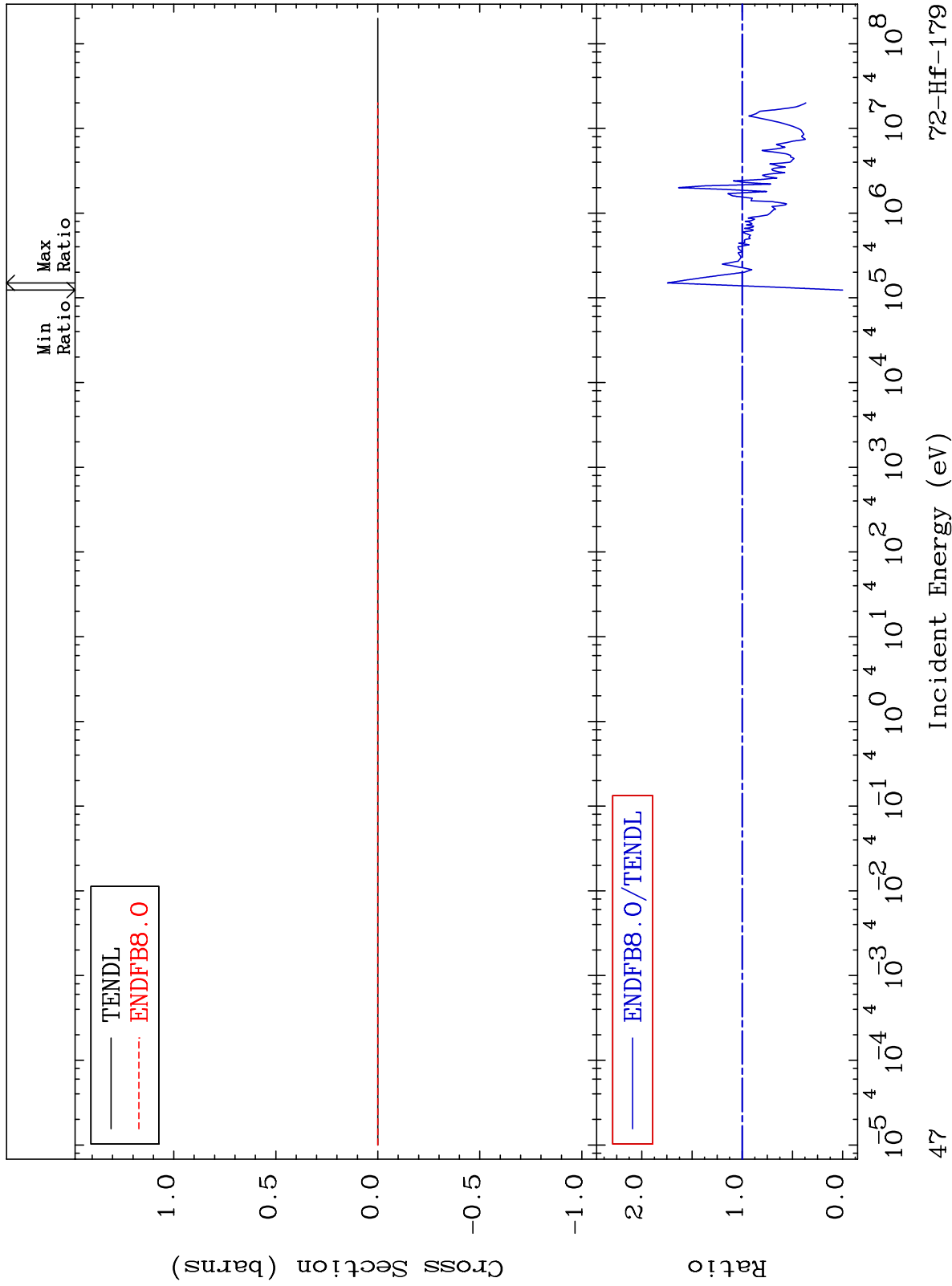
46

72-Hf-179

MAT 7240

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

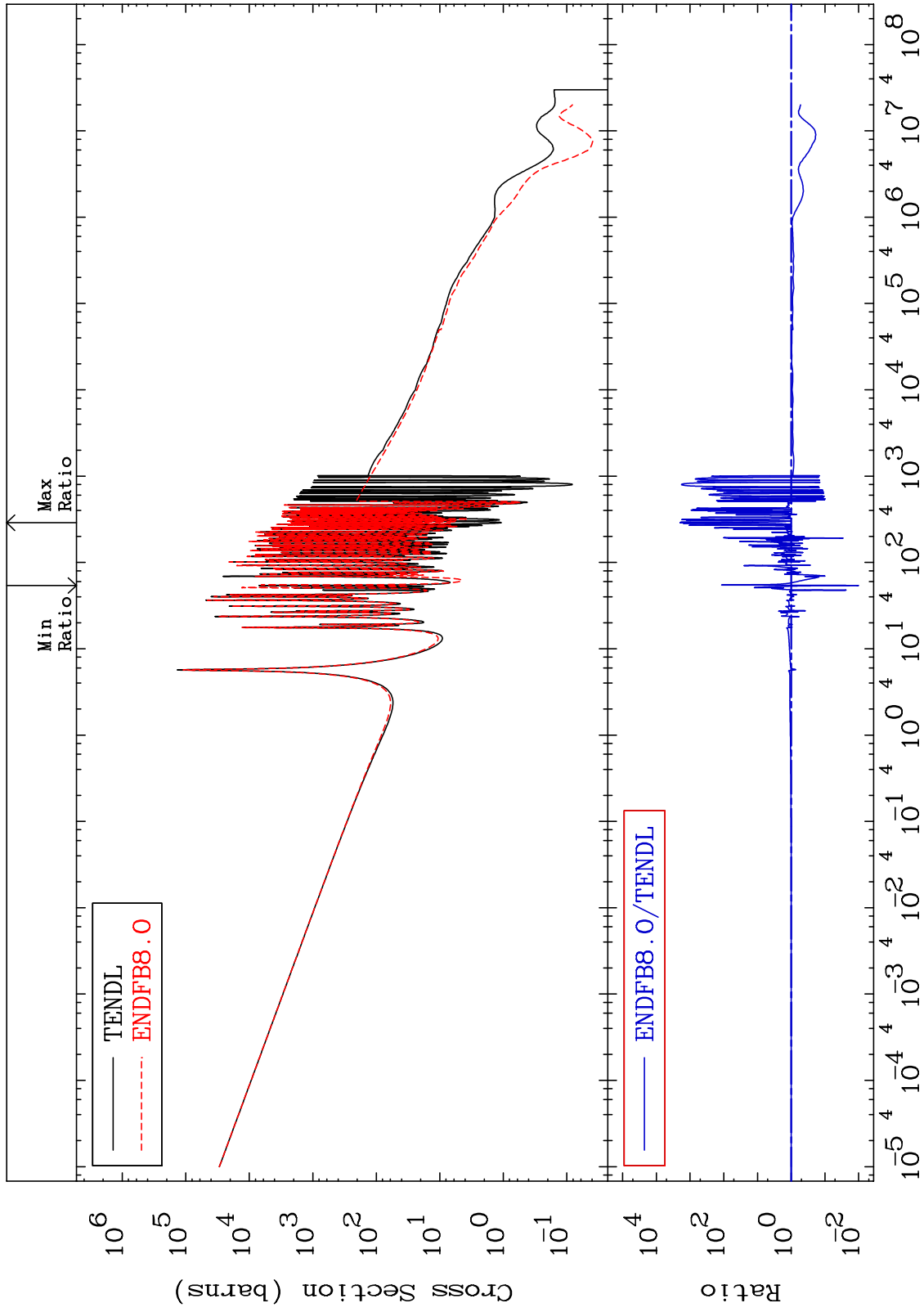
72-Hf-179  
-100.0 To 74.34 %



MAT 7240

Kerma capture (mt102)  
Cross Section

72-Hf-179  
-98.98 To 9999. %



48

Incident Energy (eV)

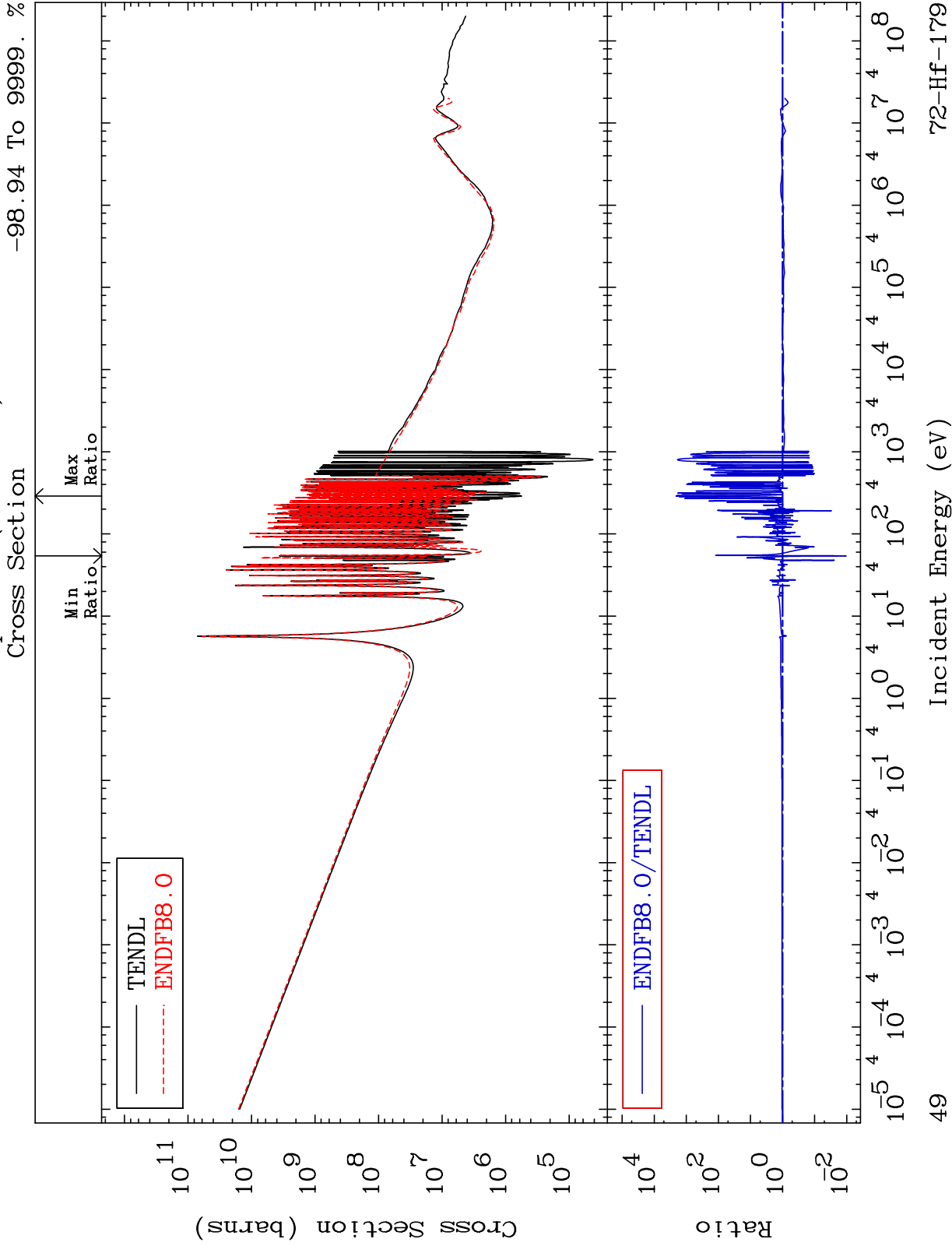
72-Hf-179

MAT 7240

Total photon (eV-barns)

72-Hf-179

-98.94 To 9999. %



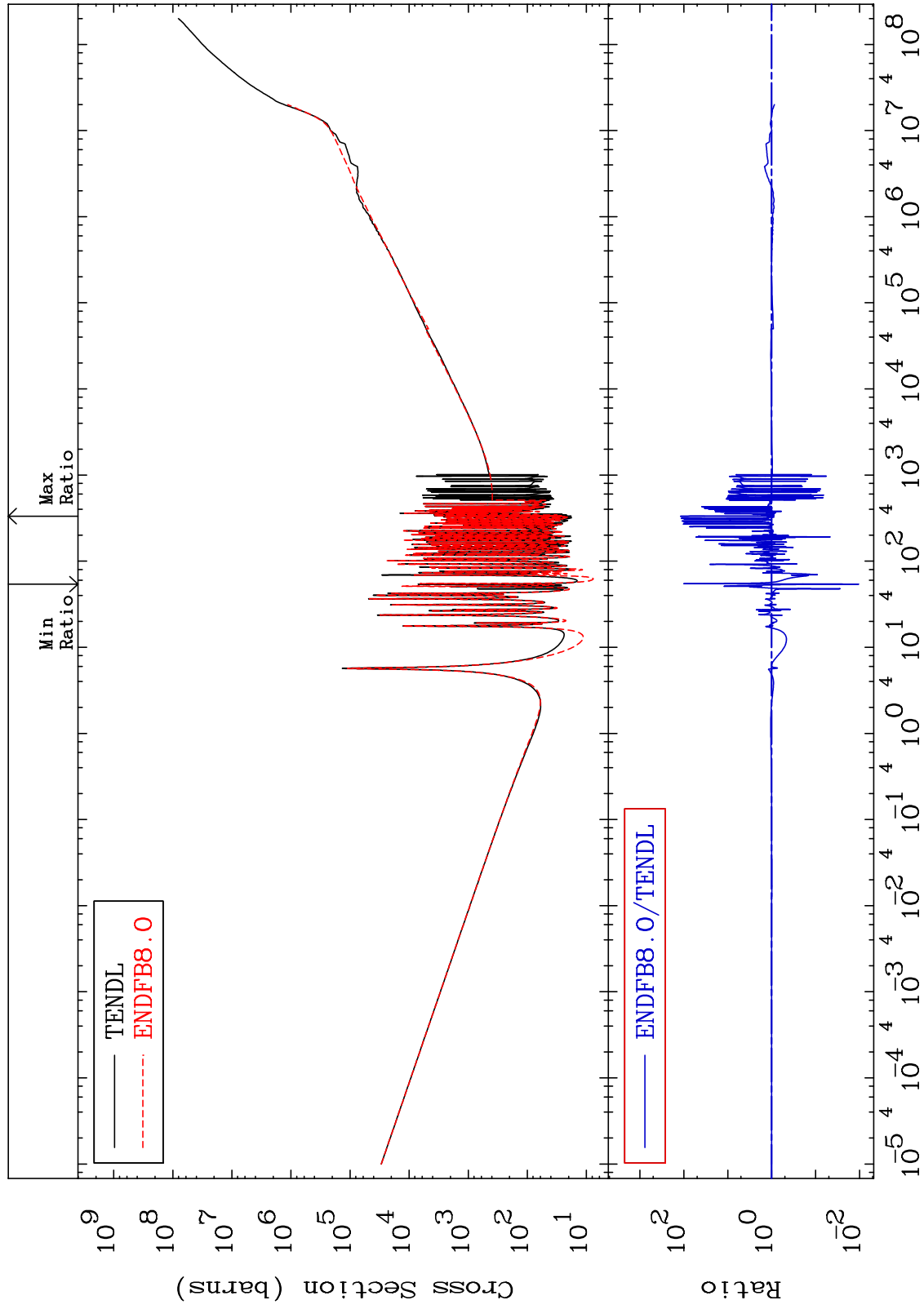
MAT 7240

Total kinematic kerma (high limit)

72-Hf-179

-98.95 To 9999. %

Cross Section



50

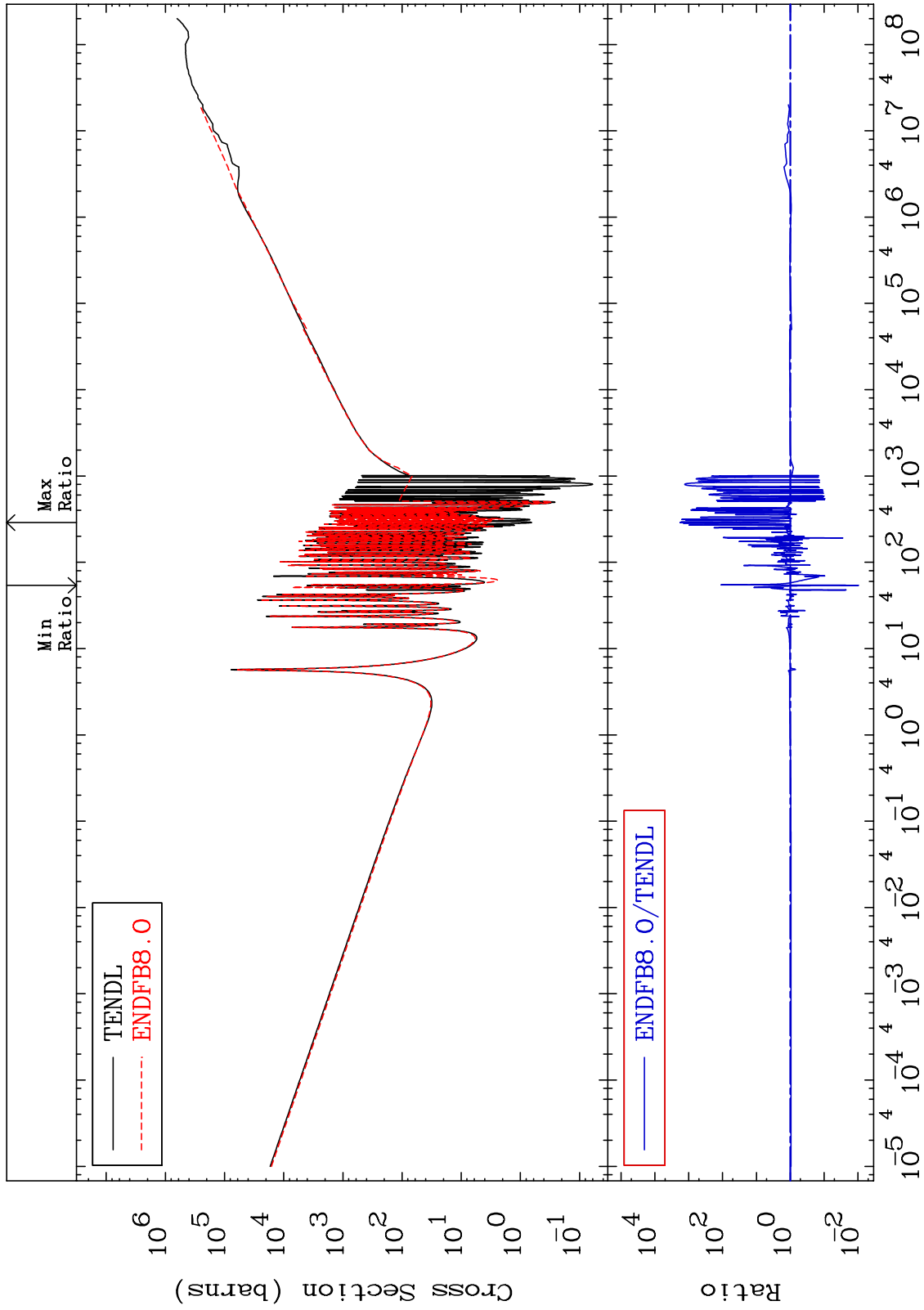
Incident Energy (eV)

72-Hf-179

MAT 7240

Dpa total (eV-barns)  
Cross Section

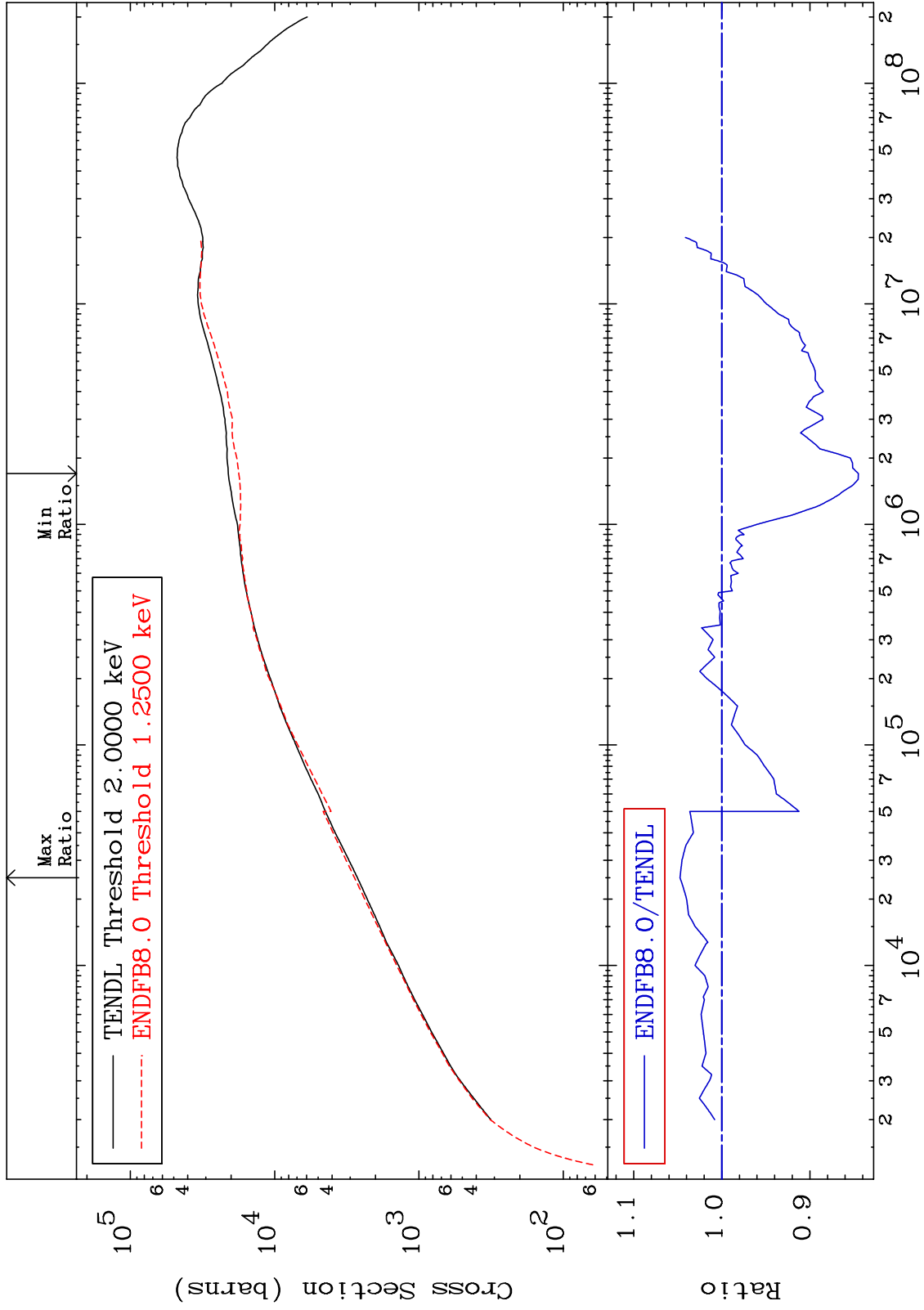
72-Hf-179  
-99.03 To 9999. %



MAT 7240

Dpa elastic (mt2)  
Cross Section

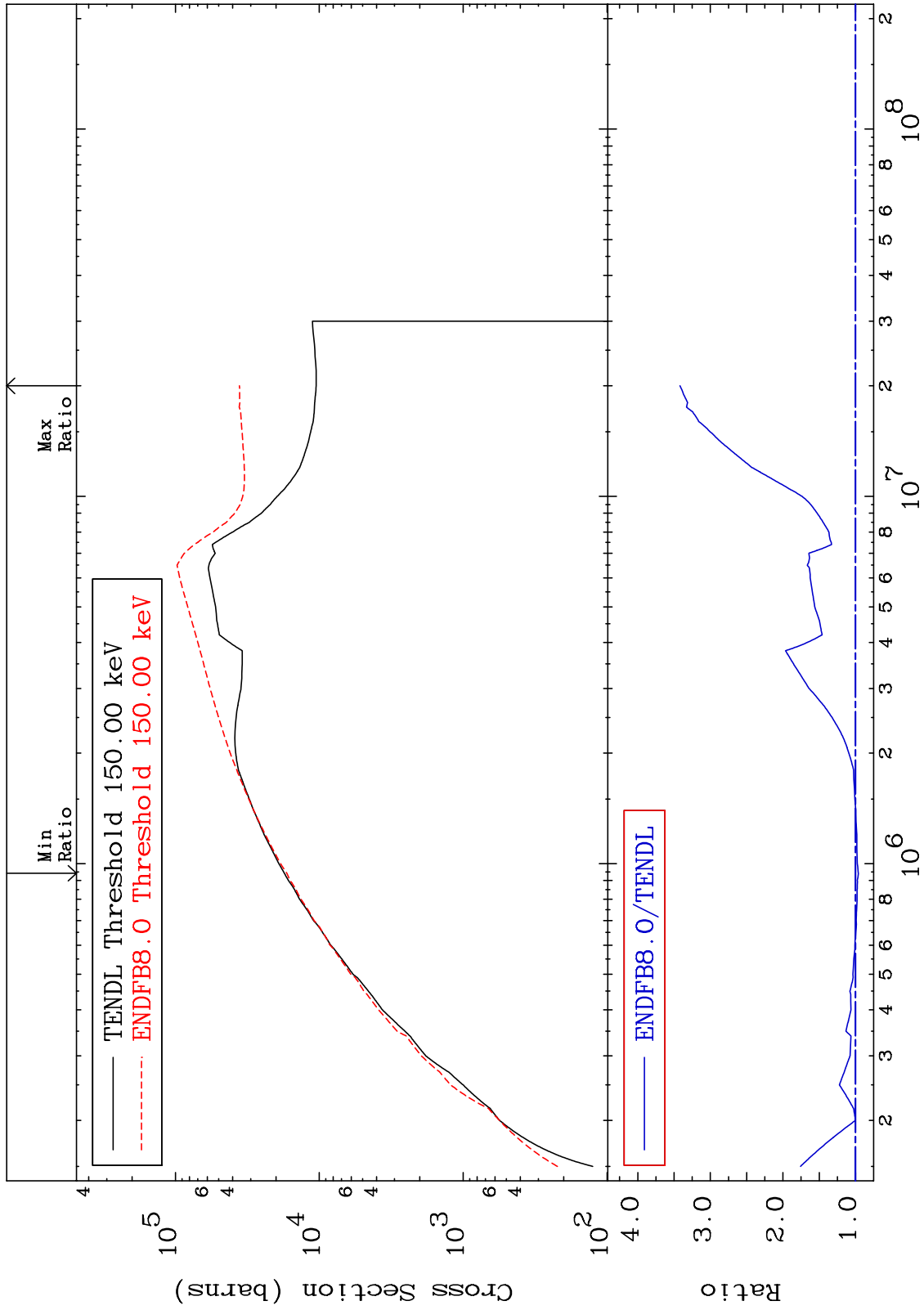
72-Hf-179  
-15.51 To 4.743 %



MAT 7240

Dpa inelastic (mt51-91)  
Cross Section

72-Hf-179  
-4.003 To 241.8 %



MAT 7240

Dpa disappearance (mt102 -120)

72-Hf-179

-99.03 To 9999. %

Cross Section

