

Program Complot
(Version 2018-1)

by

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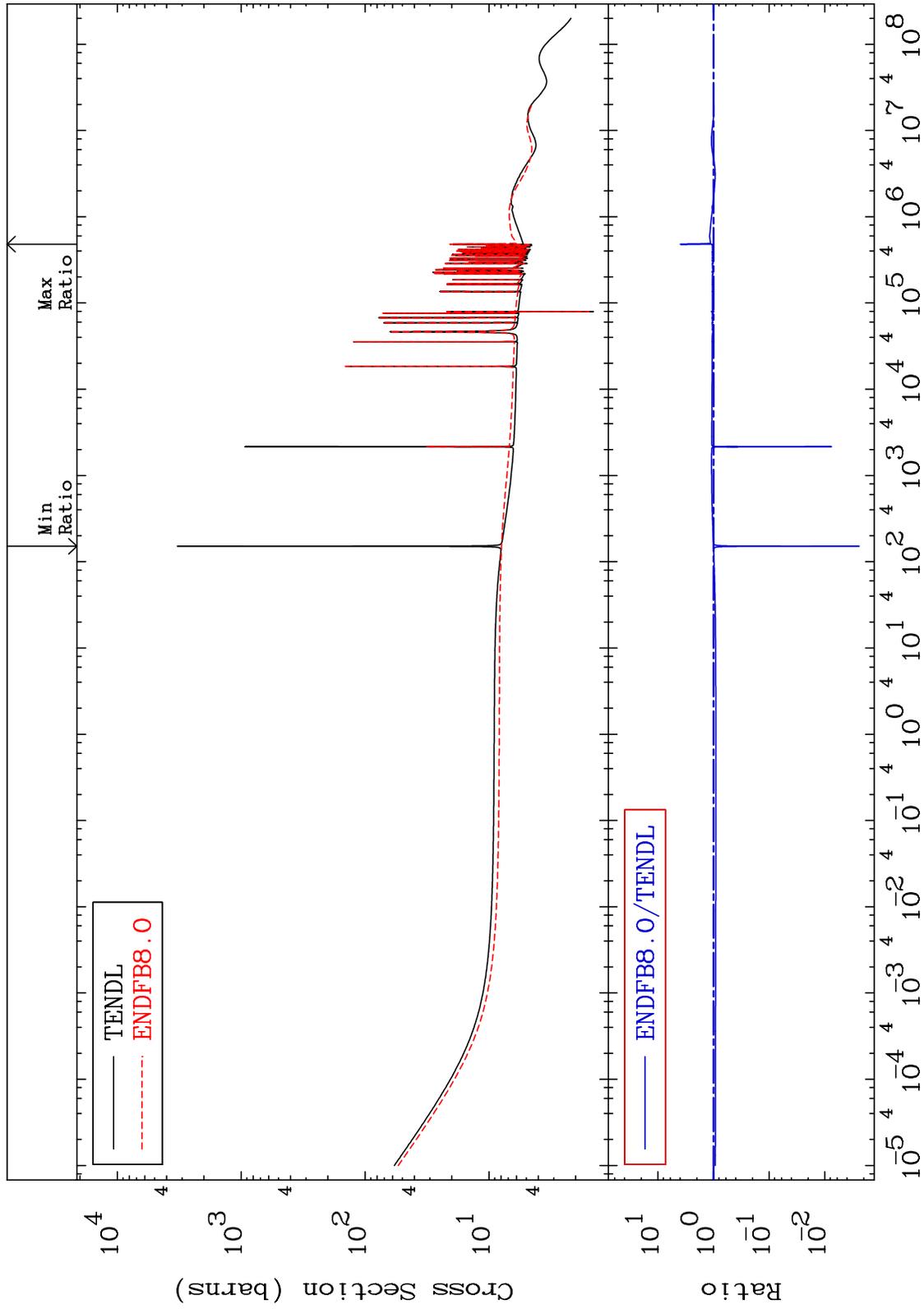
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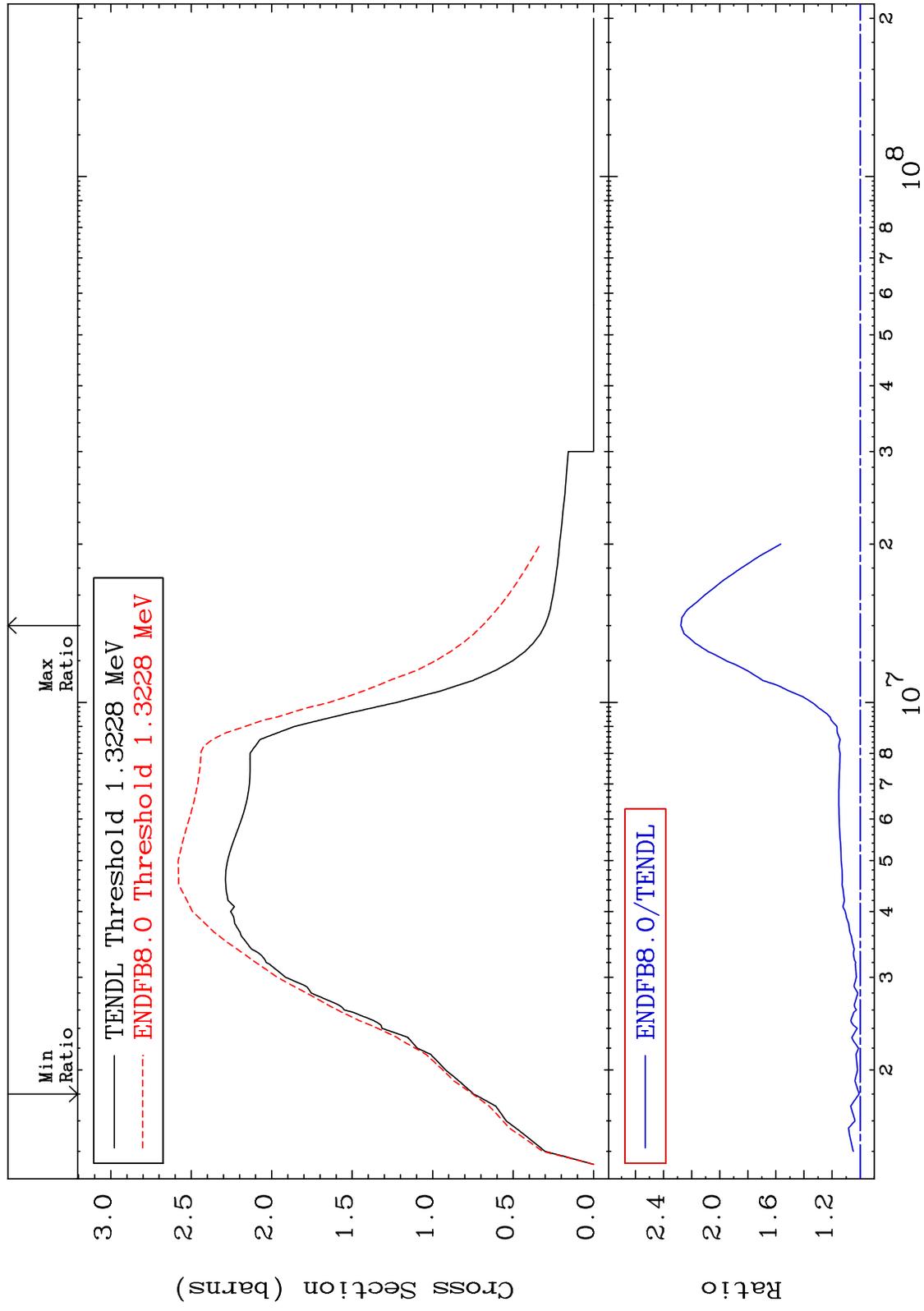
Press Mouse Button to Start

MAT 5461 54-Xe-136 Total Cross Section -99.76 To 291.2 %

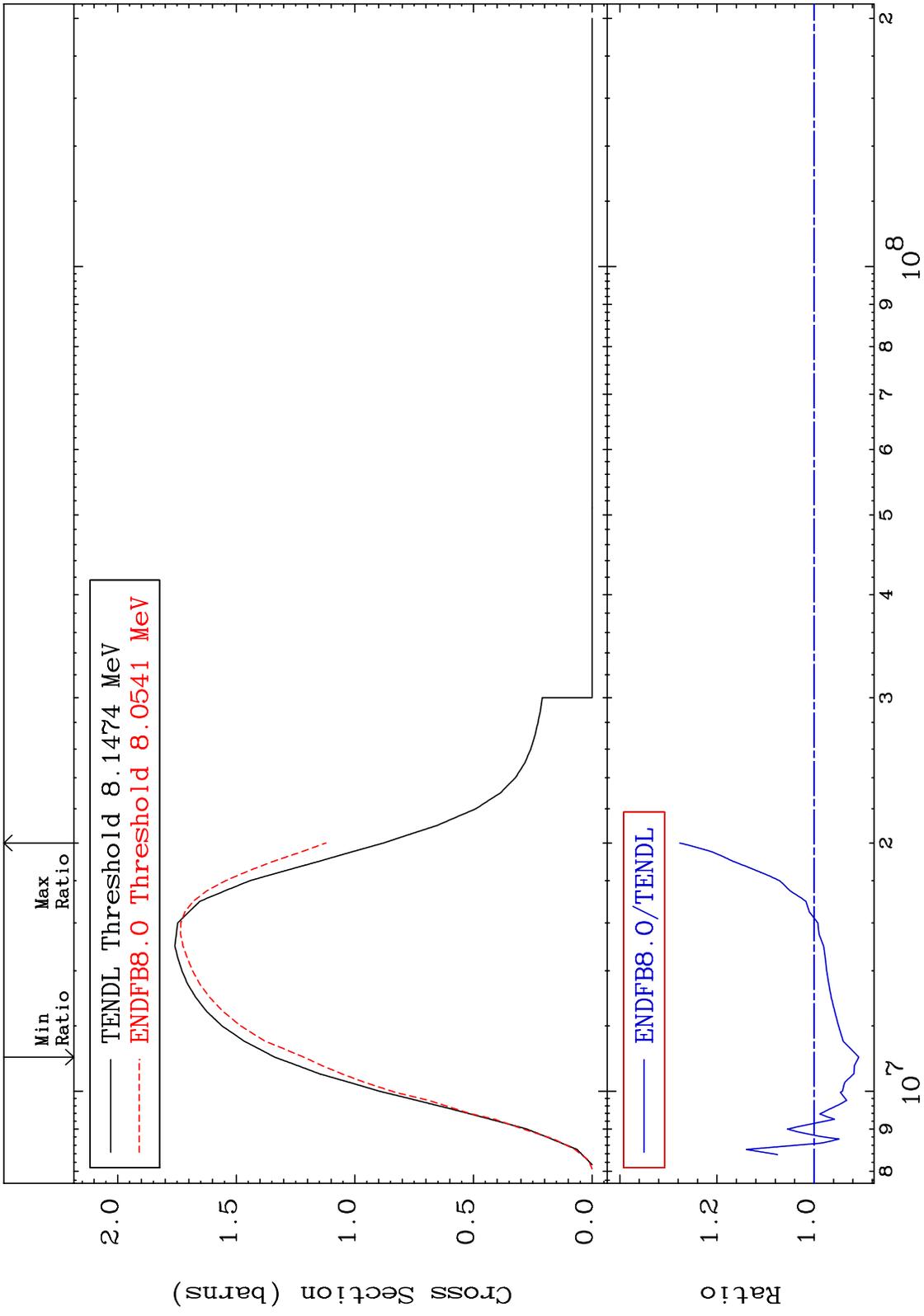


54-Xe-136 Incident Energy (eV)

MAT 5461 Inelastic Cross Section 54-Xe-136 To 127.7 %



MAT 5461 (n,2n) Cross Section 54-Xe-136 -9.205 To 27.67 %



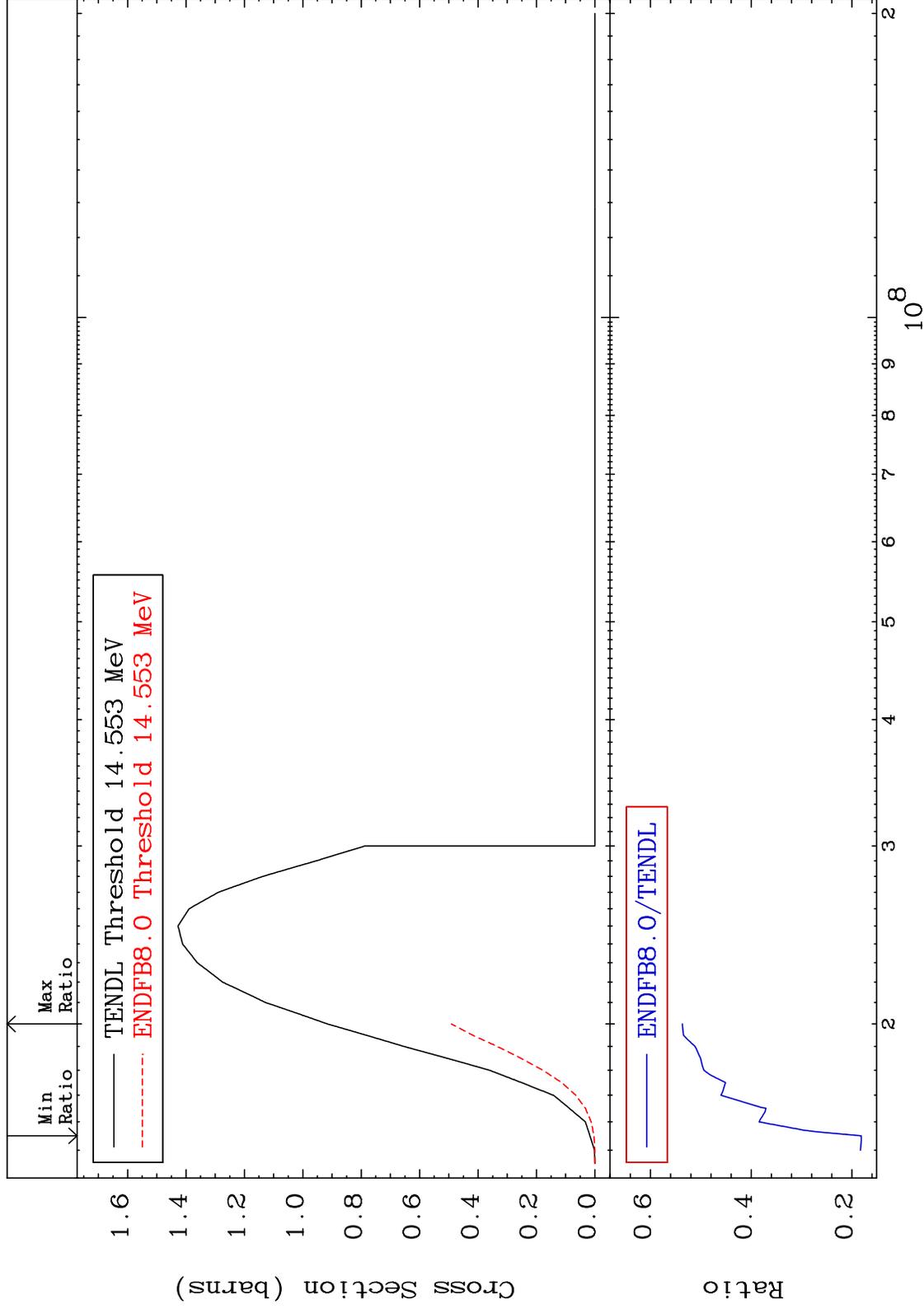
MAT 5461

(n,3n)

54-Xe-136

Cross Section

-81.87 To -46.34%



5

Incident Energy (eV)

54-Xe-136

MAT 5461

(n,n') α

54-Xe-136

211.7 To 477.2 %

Cross Section

Max Ratio

Min Ratio

— TENDL Threshold 3.6931 MeV
- - - ENDFB8.0 Threshold 13.000 MeV

— ENDFB8.0/TENDL

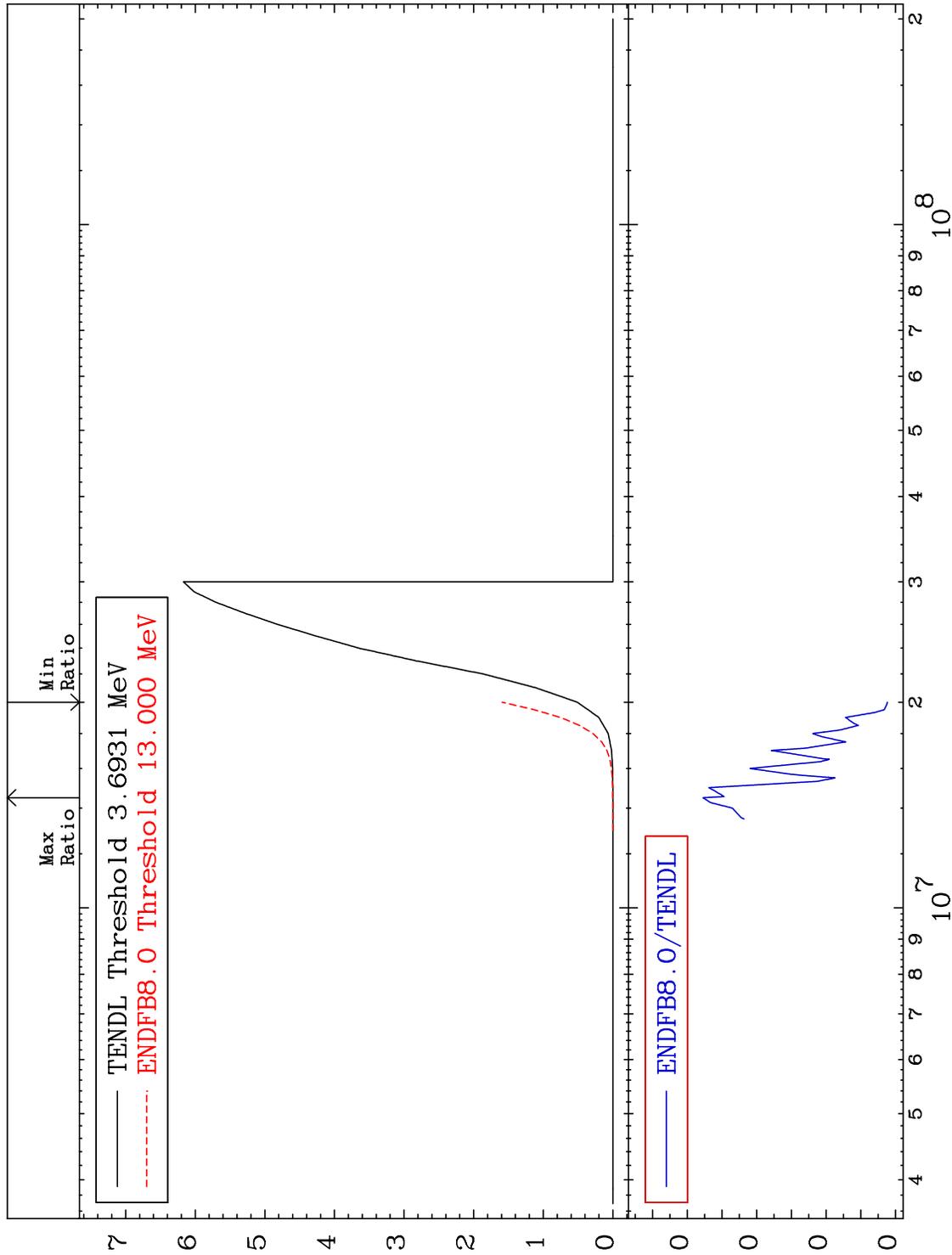
Cross Section (milli-barns)

Ratio

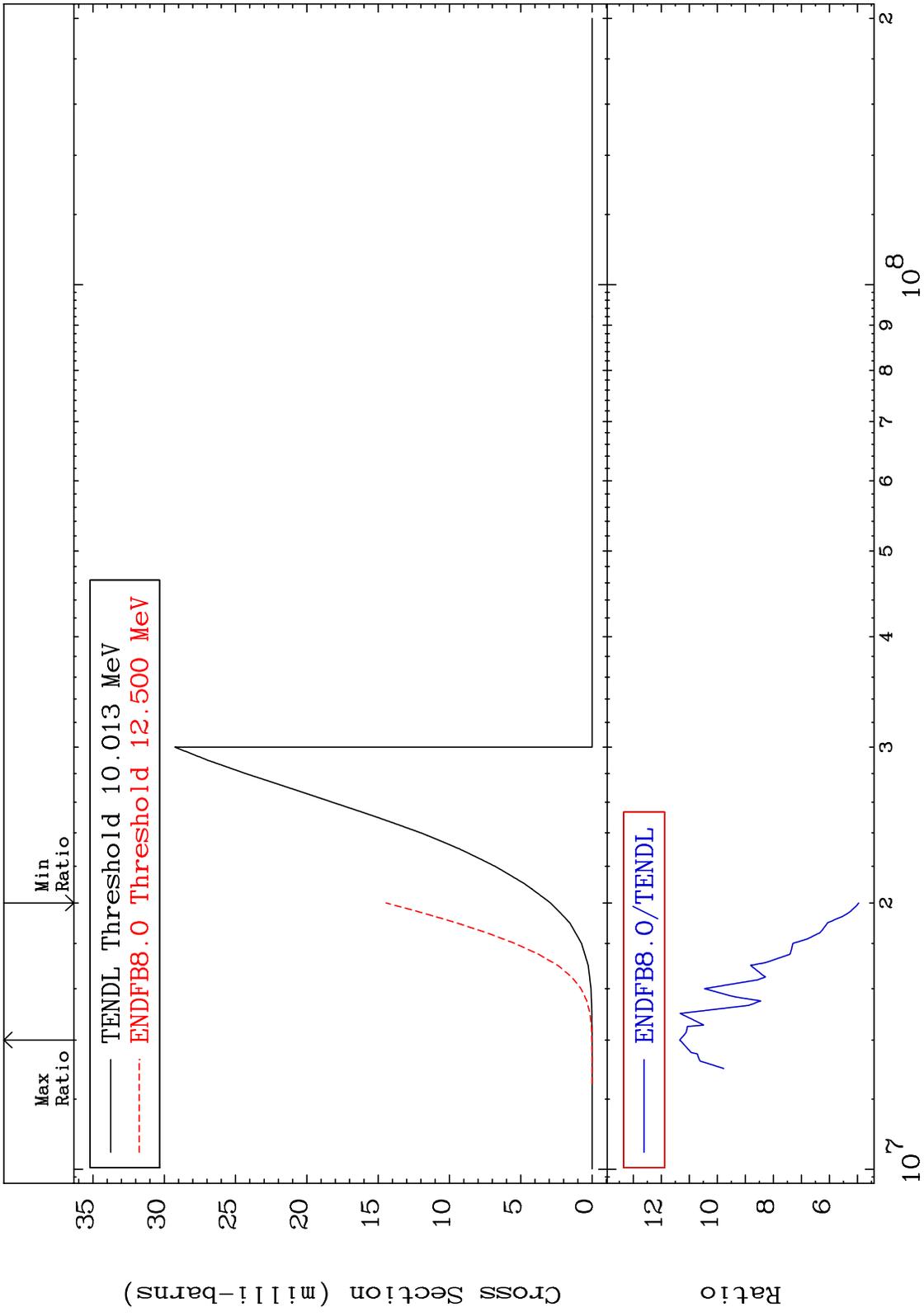
6

Incident Energy (eV)

54-Xe-136



MAT 5461 (n,n') p 54-Xe-136
 Cross Section 395.5 To 1034. %

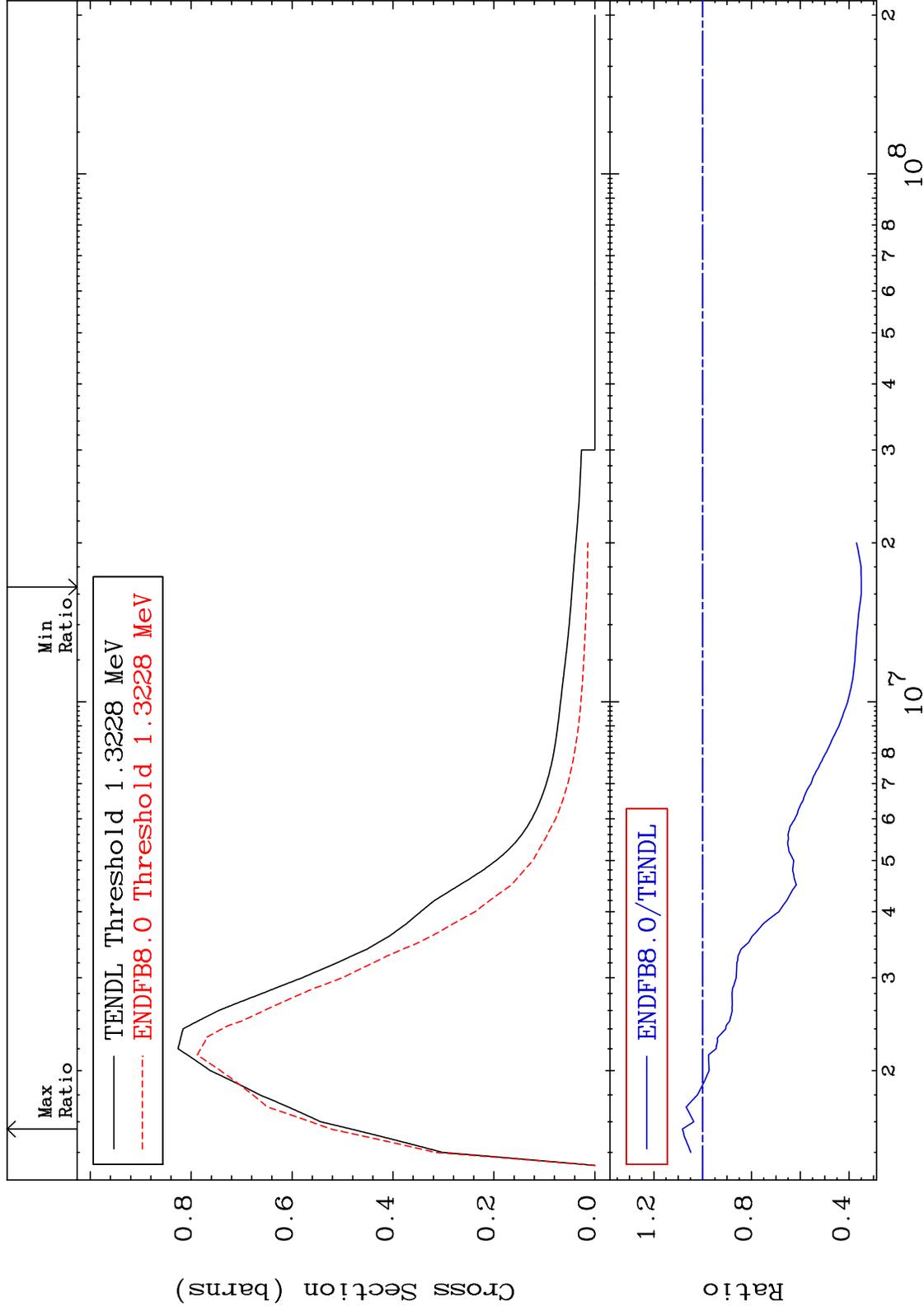


Incident Energy (eV) 54-Xe-136

MAT 5461

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

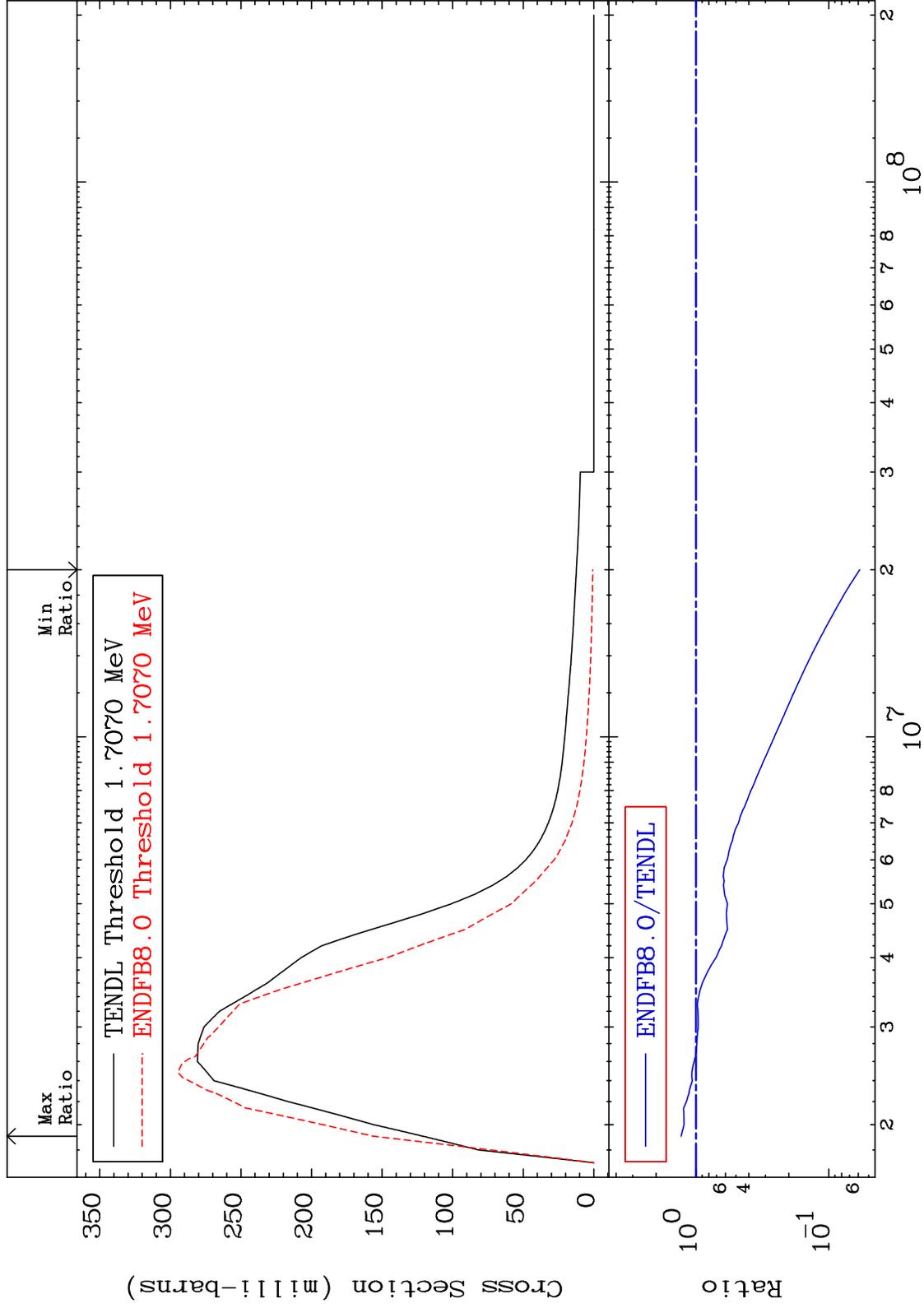
54-Xe-136
-65.01 To 8.289 %



MAT 5461

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

54-Xe-136
-94.16 To 29.12 %



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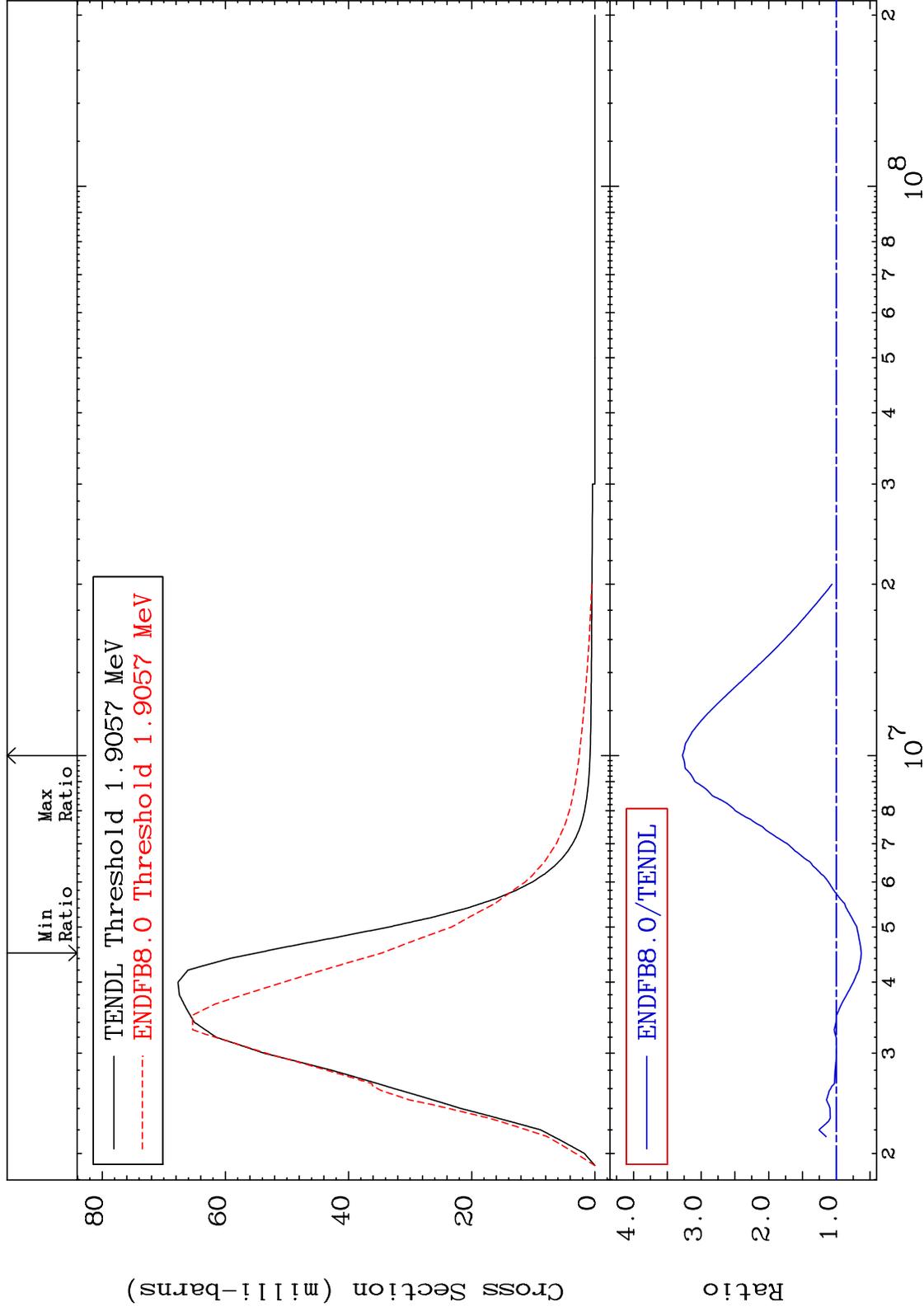
Incident Energy (eV)

54-Xe-136

MAT 5461

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

54-Xe-136
-37.12 To 227.6 %

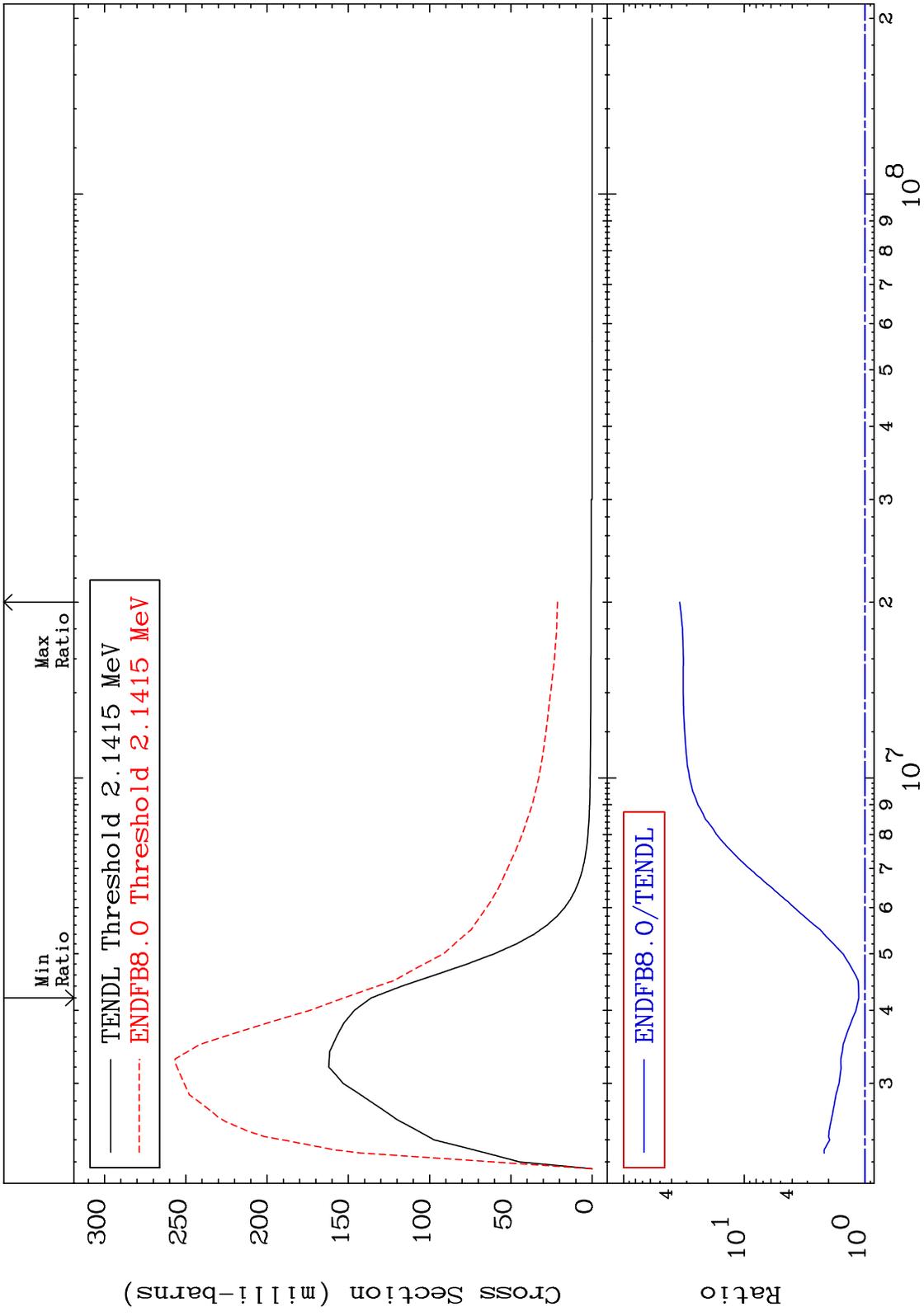


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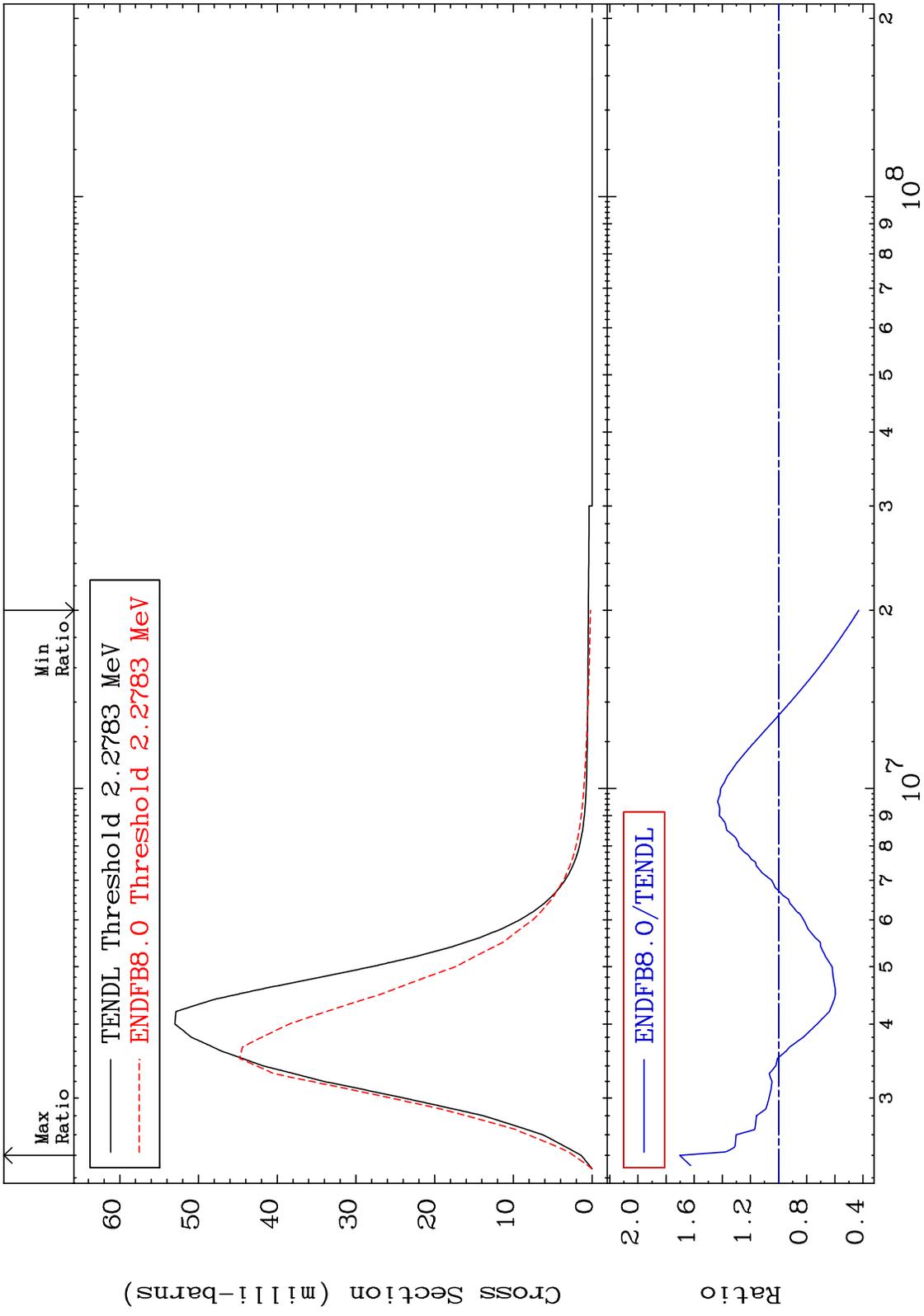
Incident Energy (eV)

54-Xe-136

MAT 5461 MT= 54 (n,n') Level Cross Section 54-Xe-136 12.41 To 3329. %



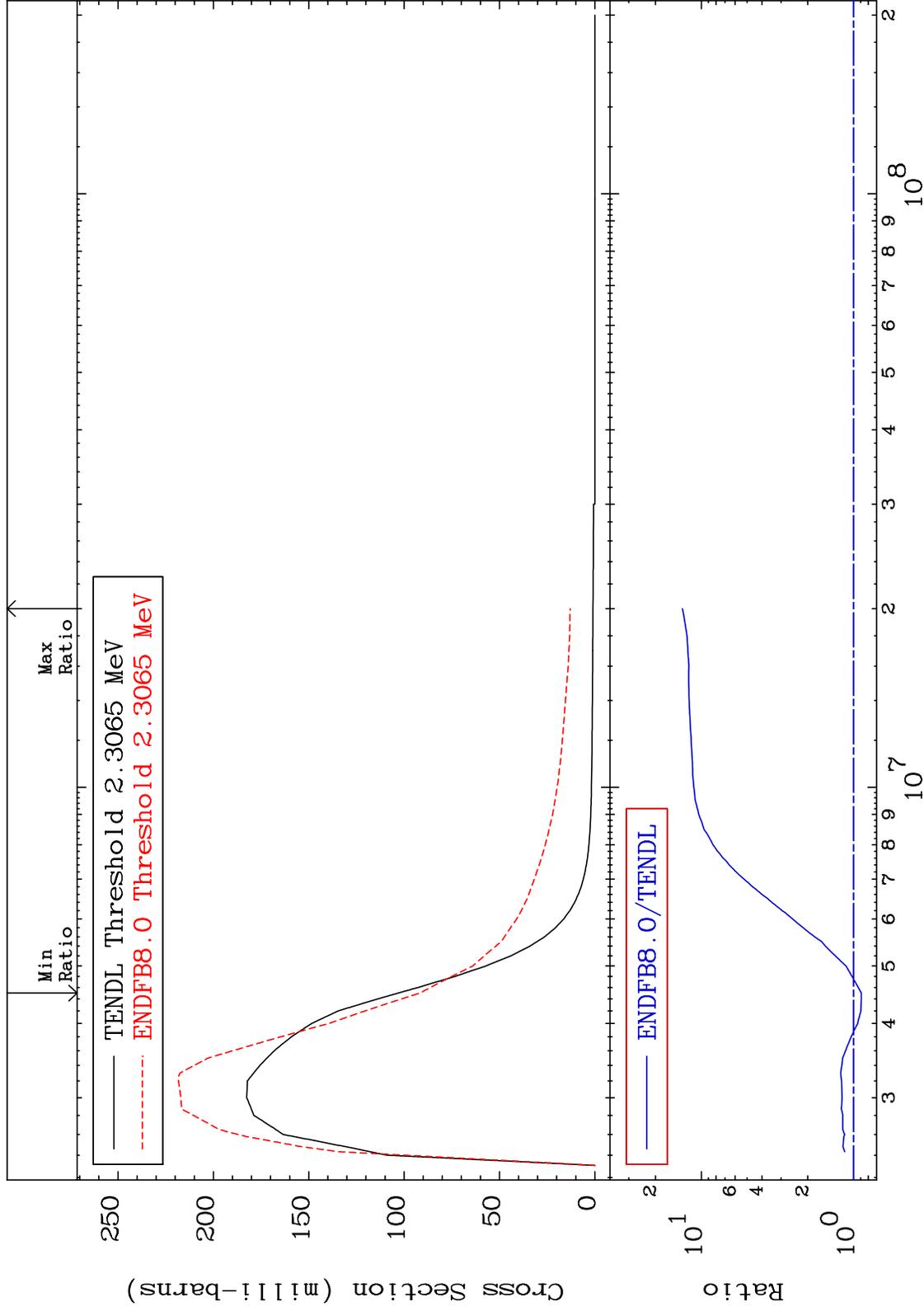
MAT 5461 MT= 55 (n,n') Level Cross Section 54-Xe-136 -57.08 To 70.28 %



MAT 5461

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

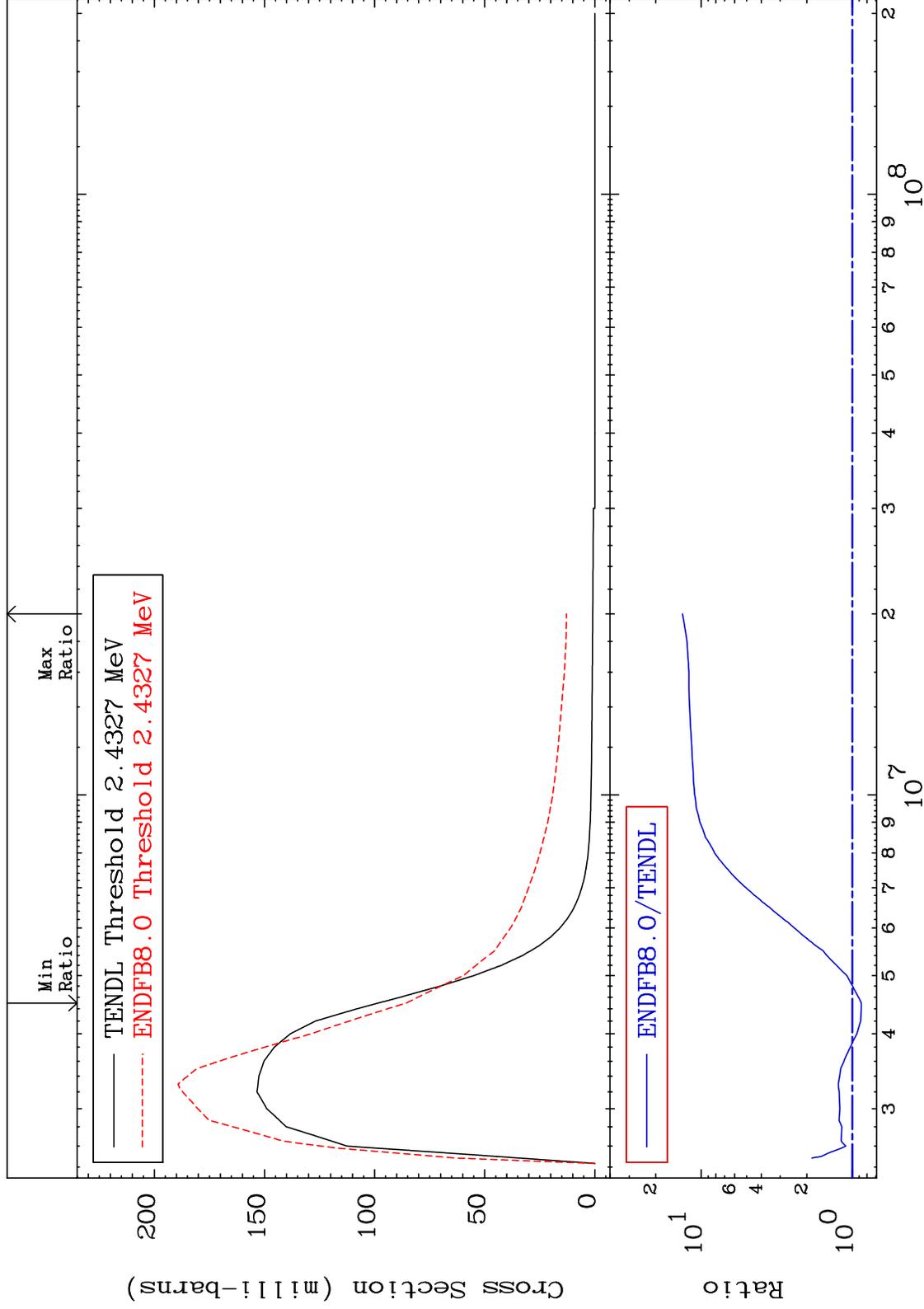
54-Xe-136
-11.08 To 1231. %



MAT 5461

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

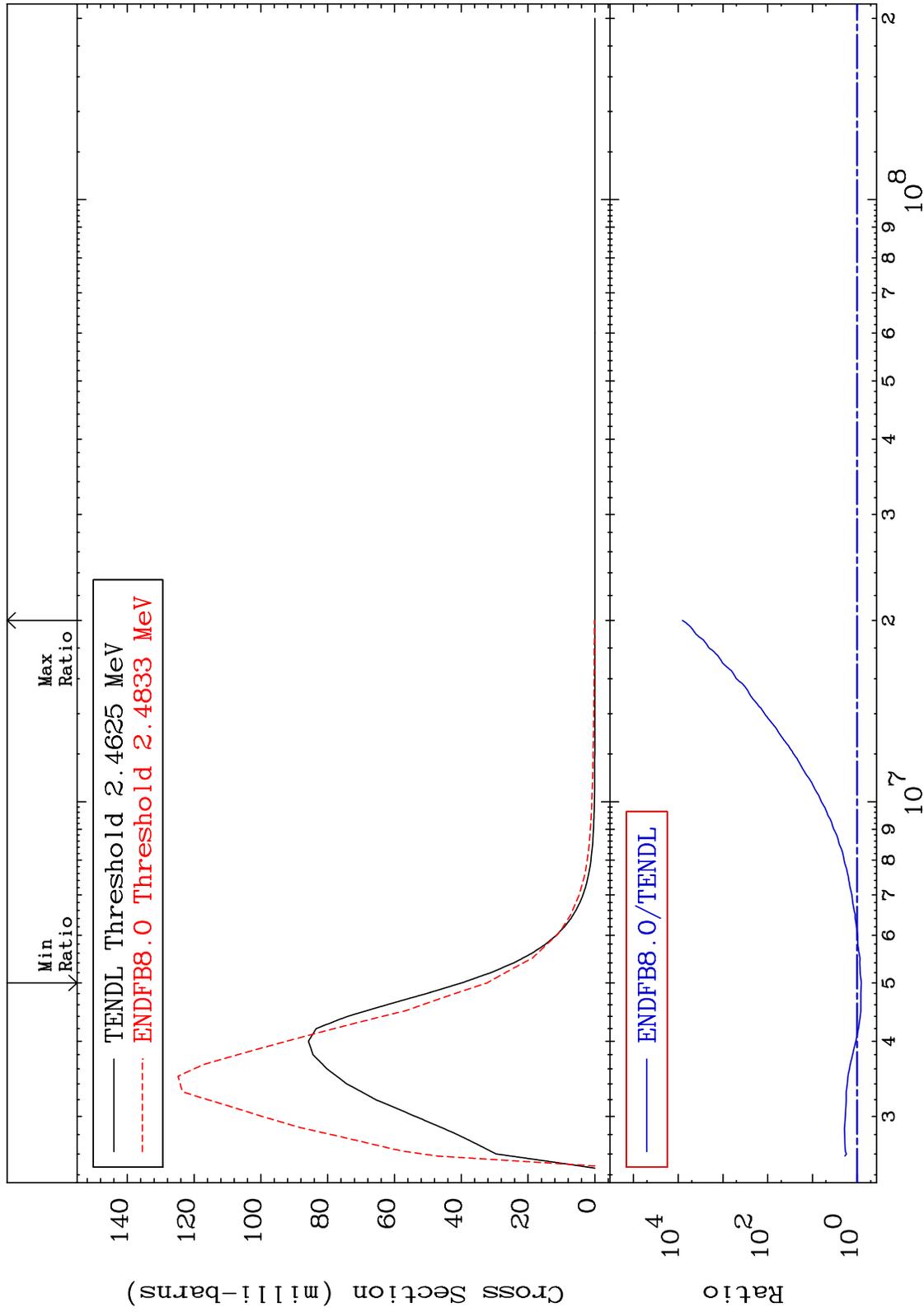
54-Xe-136
-12.91 To 1231. %



MAT 5461

MT= 58 (n,n') Level
Cross Section

54-Xe-136
-19.04 To 9999. %

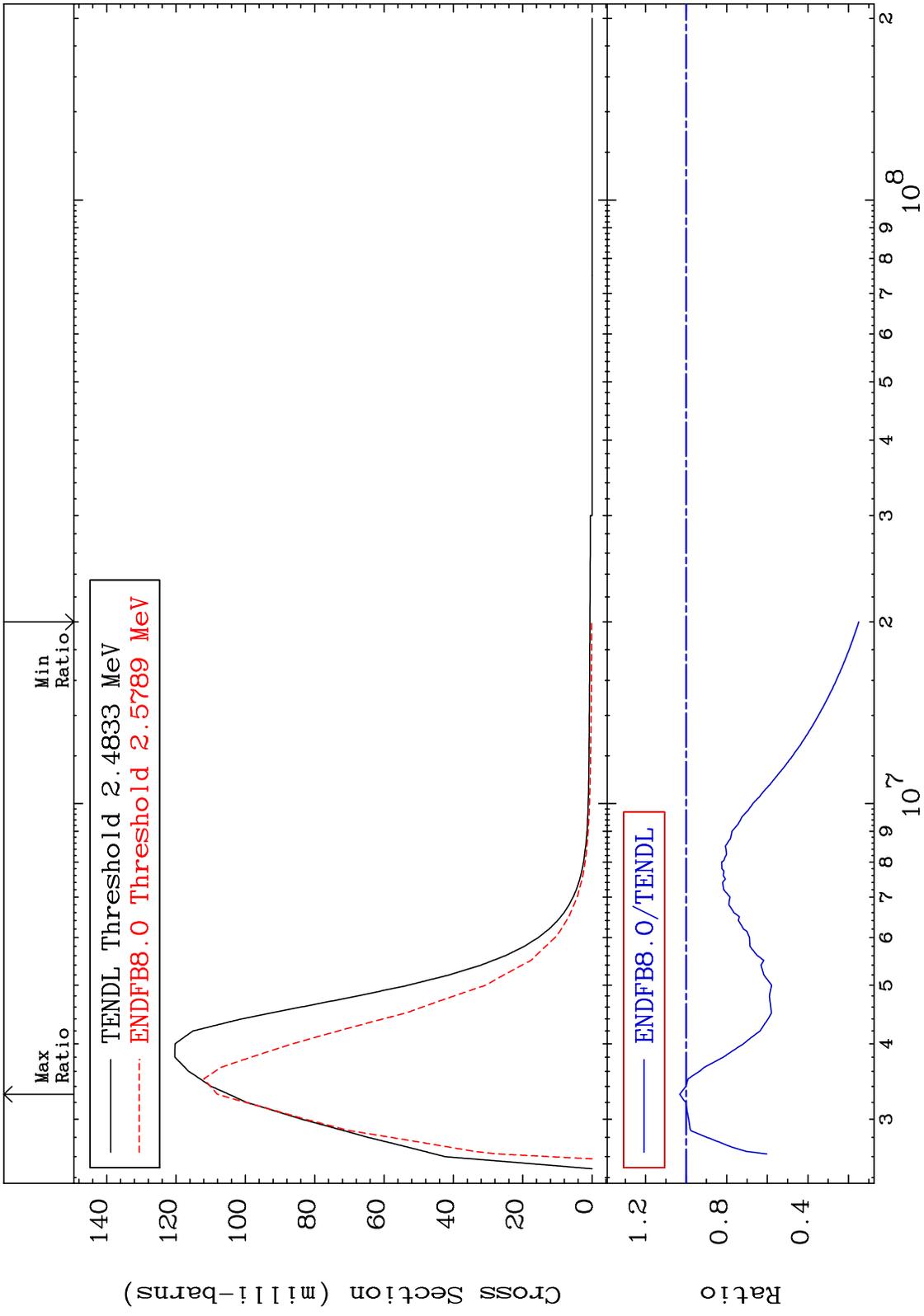


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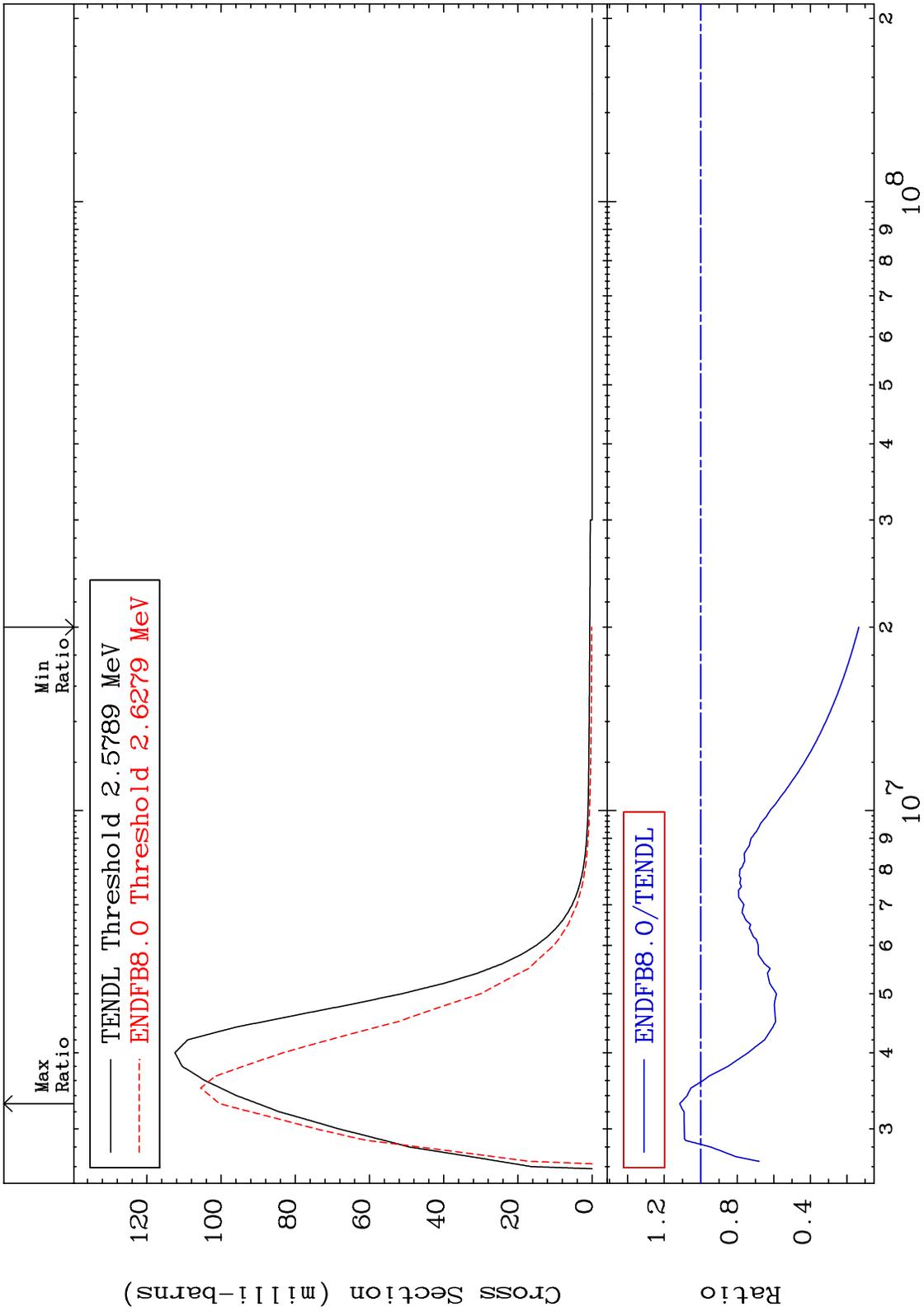
Incident Energy (eV)

54-Xe-136

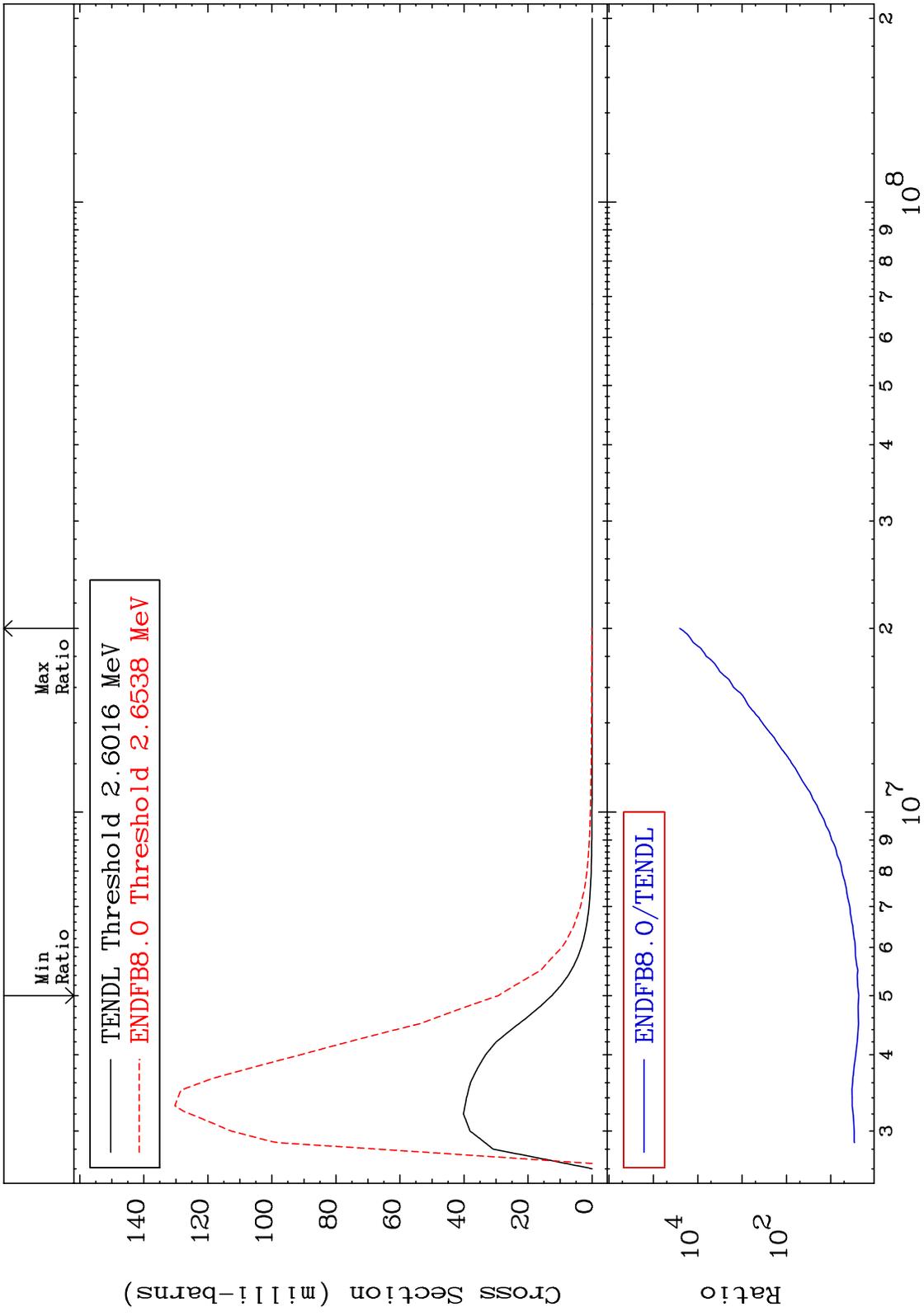
MAT 5461 MT= 59 (n,n') Level Cross Section 54-Xe-136
 -85.08 To 3.160 %



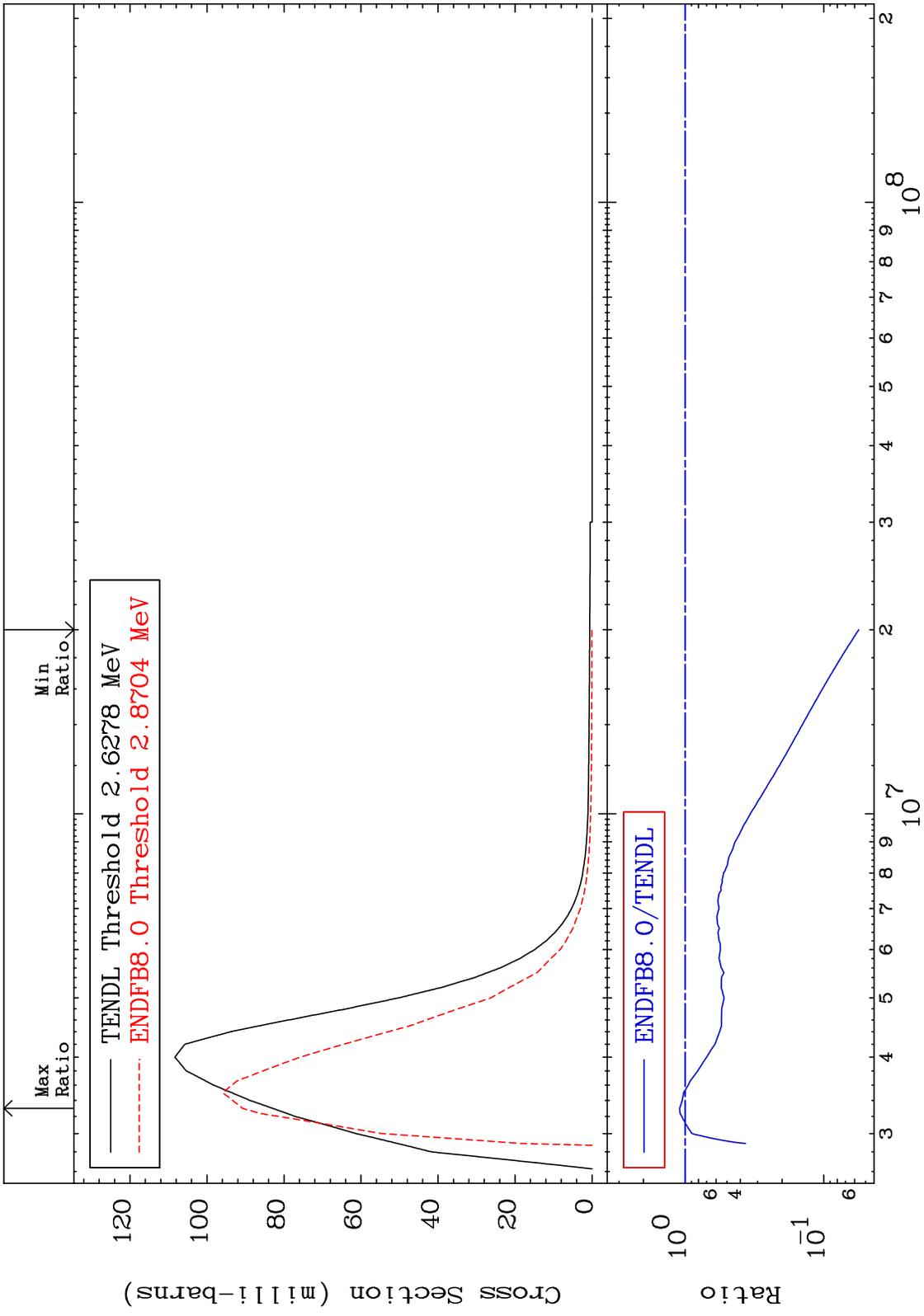
MAT 5461 MT= 60 (n,n') Level Cross Section 54-Xe-136 -86.53 To 11.49 %



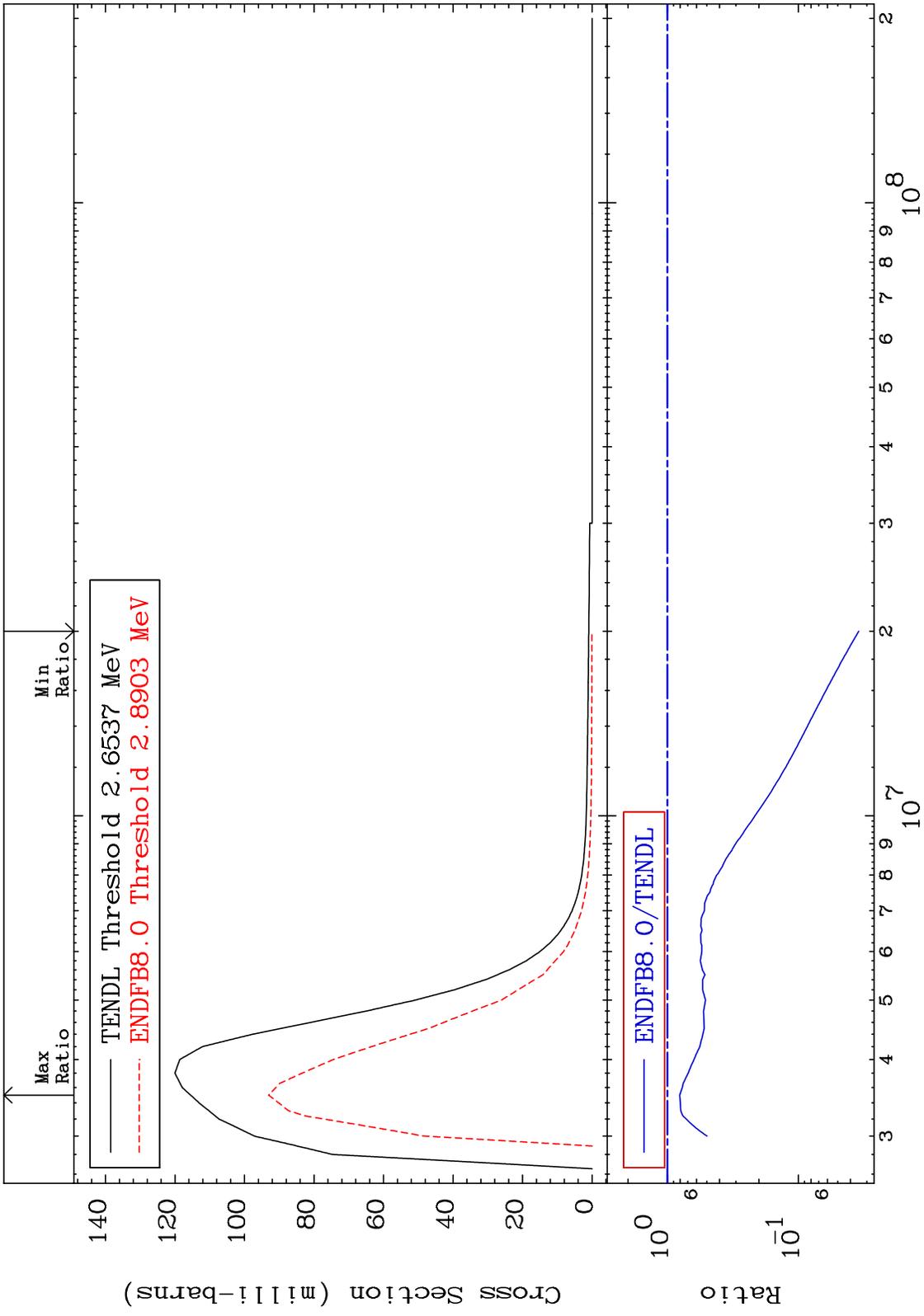
MAT 5461 MT= 61 (n,n') Level Cross Section 54-Xe-136 133.1 To 9999. %



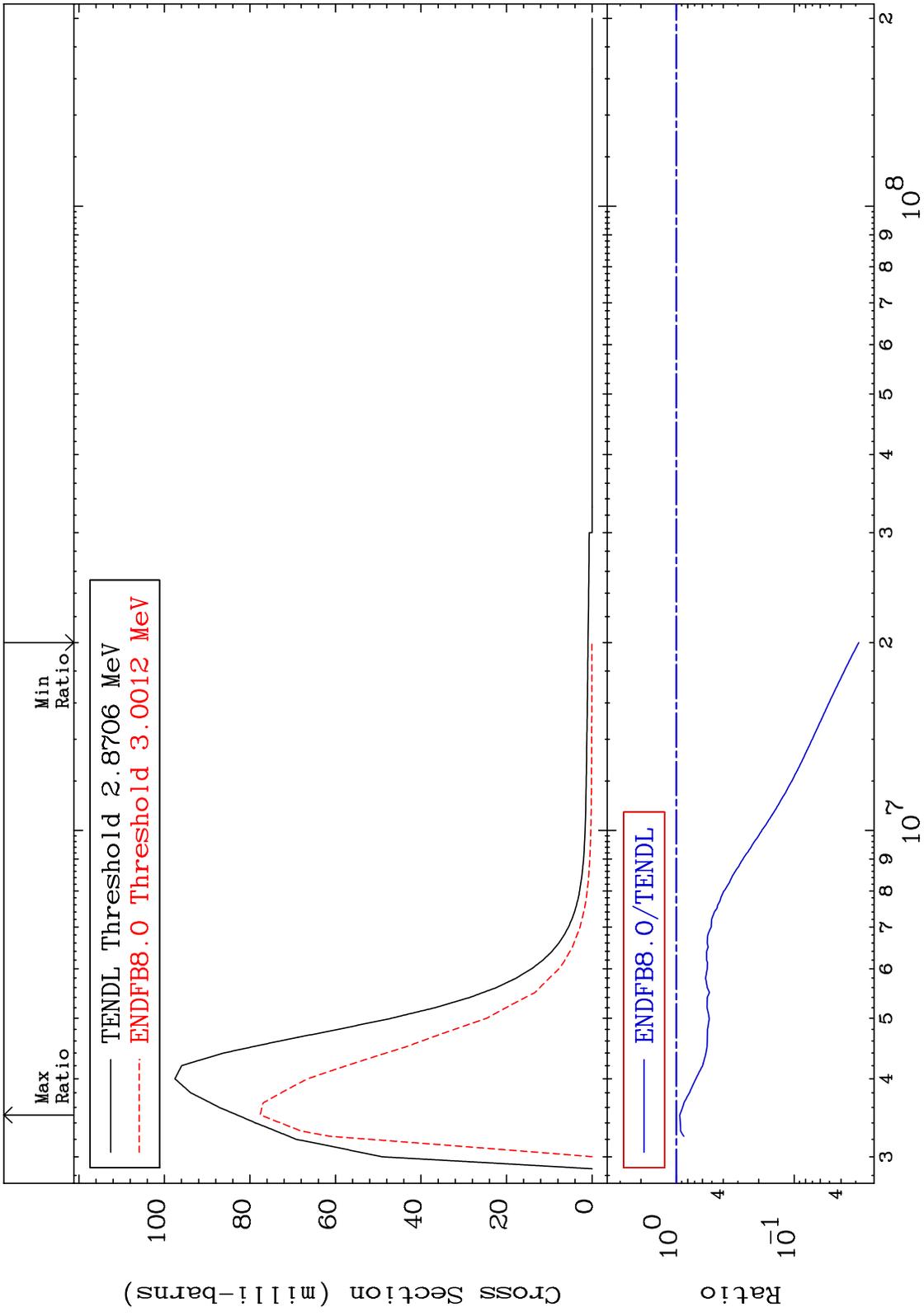
MAT 5461 MT= 62 (n,n') Level Cross Section 54-Xe-136 -94.41 To 9.431 %



MAT 5461 MT= 63 (n,n') Level Cross Section 54-Xe-136 -96.55 To -19.43%



MAT 5461 MT= 64 (n,n') Level Cross Section 54-Xe-136 -97.18 To -6.425%

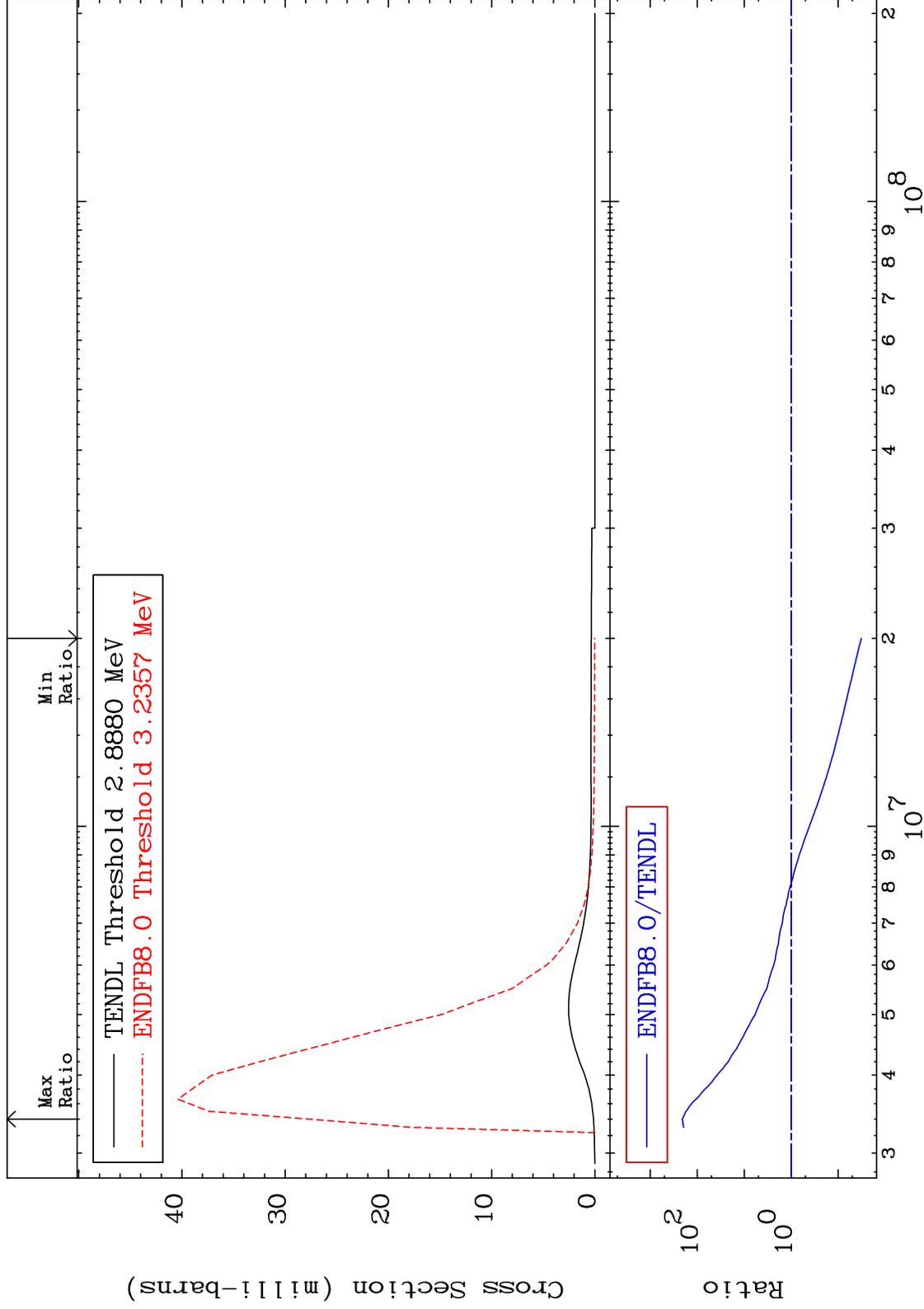


21 Incident Energy (eV) 54-Xe-136

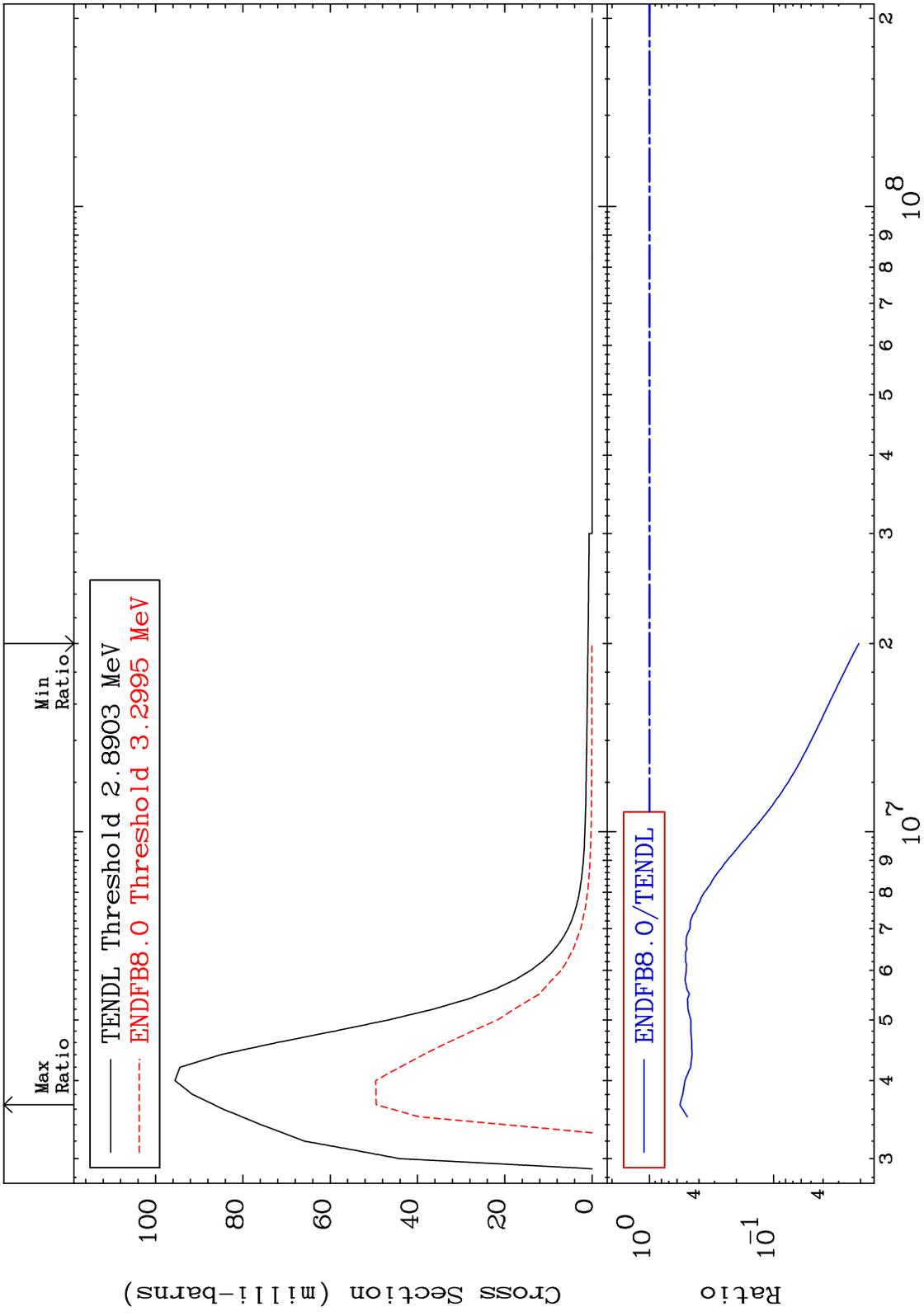
MAT 5461

MT= 65 (n,n') Level
Cross Section

54-Xe-136
-96.79 To 9999. %



MAT 5461 MT= 66 (n,n') Level Cross Section 54-Xe-136
 -97.94 To -42.91%

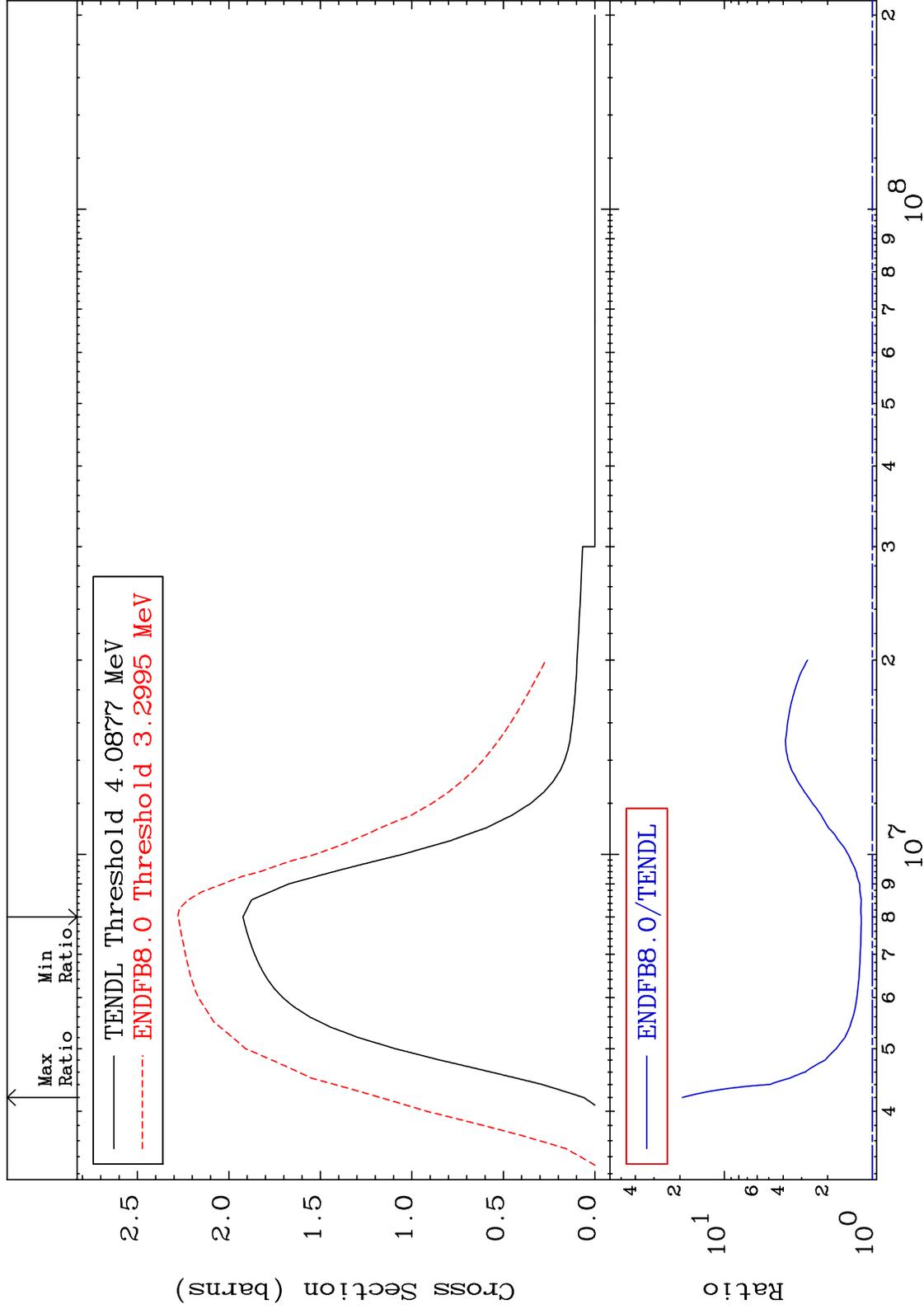


Incident Energy (eV) 54-Xe-136

MAT 5461

(n,n') Continuum
Cross Section

54-Xe-136
18.37 To 1822. %

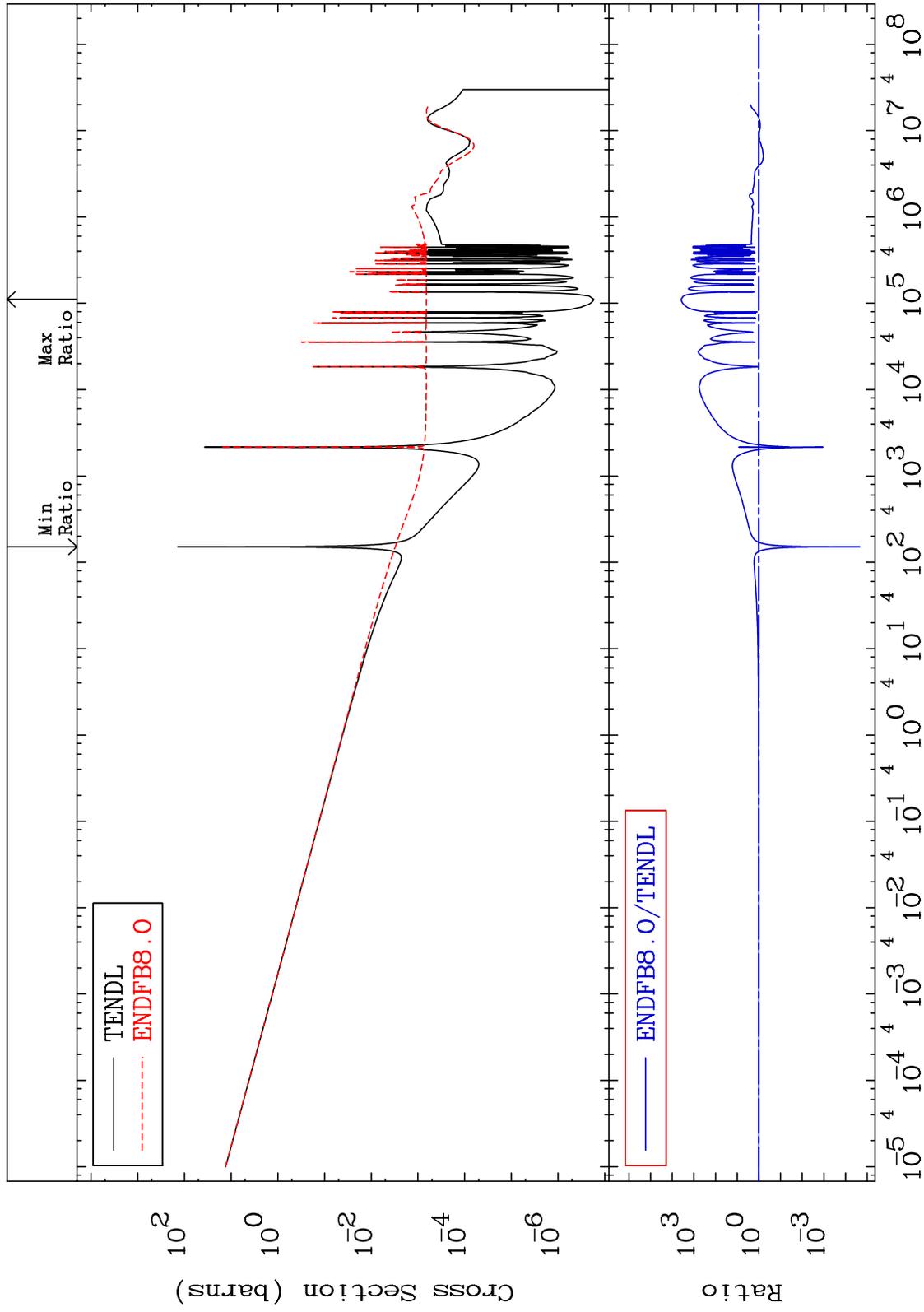


MAT 5461

(n, γ)
Cross Section

54-Xe-136

-100.0 To 9999. %



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Incident Energy (eV)

54-Xe-136

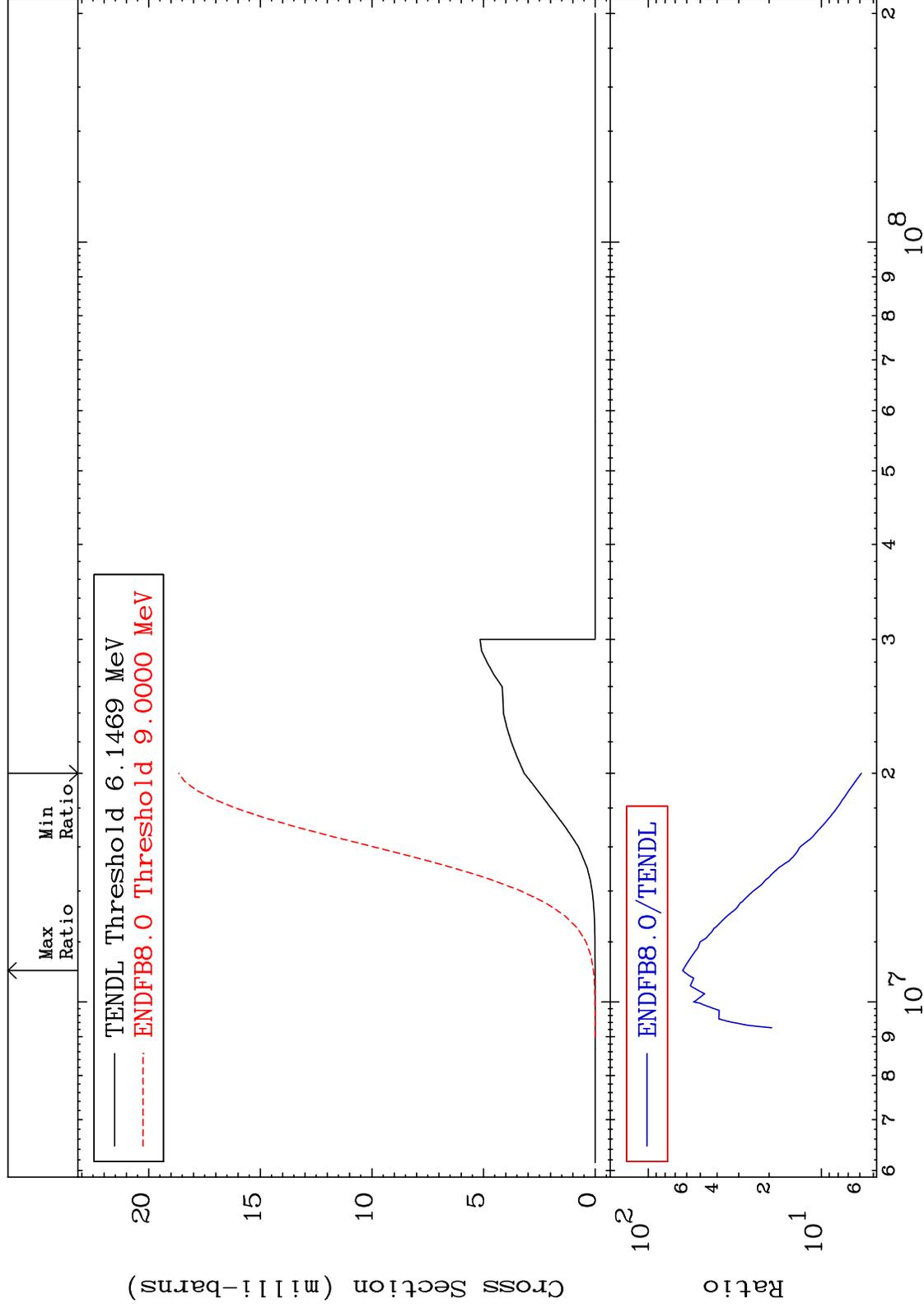
MAT 5461

(n,p)

54-Xe-136

Cross Section

486.7 To 6226. %

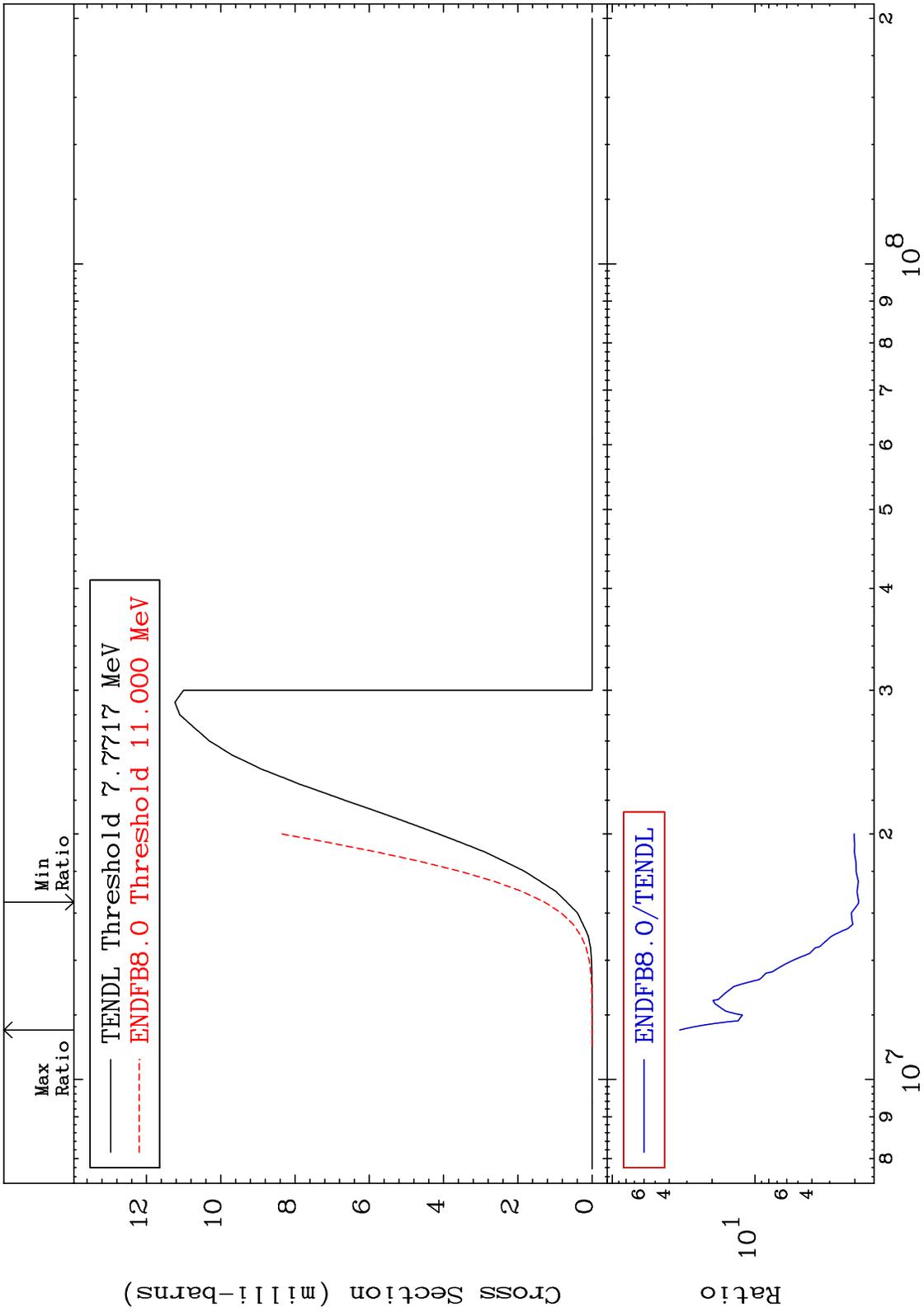


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Incident Energy (eV)

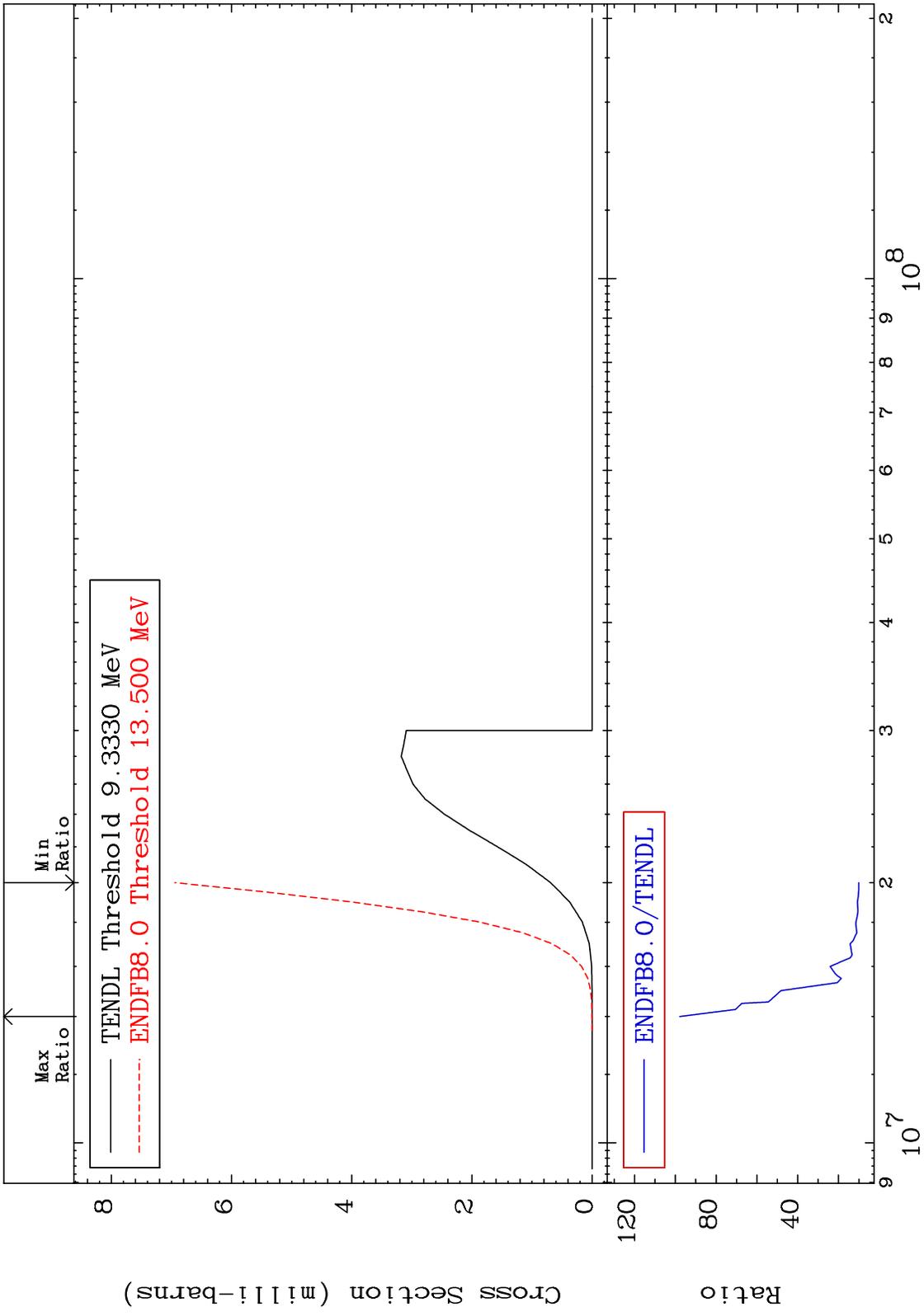
54-Xe-136

MAT 5461 (n,d) Cross Section 54-Xe-136 87.50 To 3267. %



27 Incident Energy (eV) 54-Xe-136

MAT 5461 (n,t) 54-Xe-136
 Cross Section 904.4 To 9684. %



28 54-Xe-136 Incident Energy (eV)

MAT 5461

(n, α)

54-Xe-136

63.46 To 527.8 %

Cross Section

Min Ratio

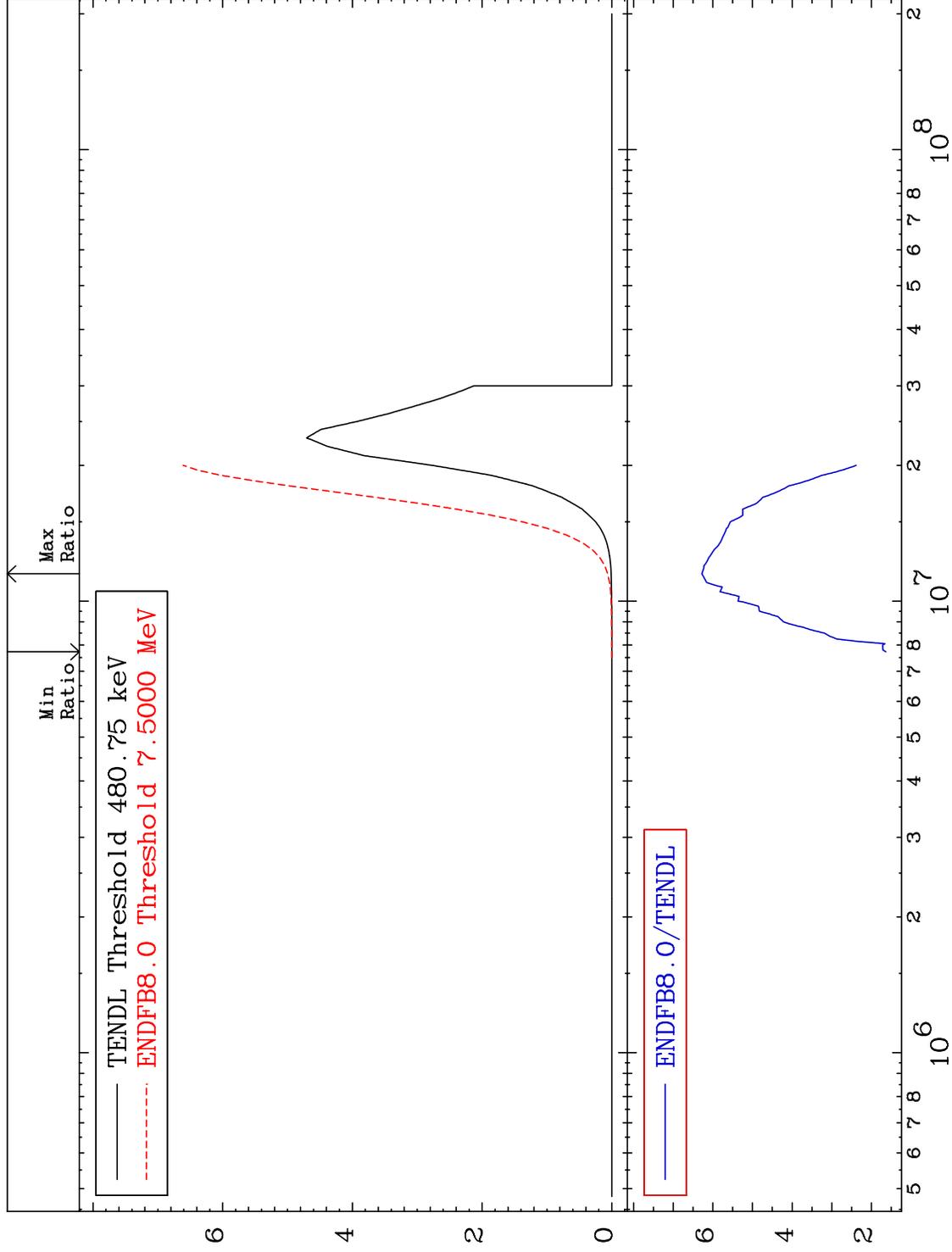
Max Ratio

— TENDL Threshold 480.75 keV
- - - ENDFB8.0 Threshold 7.5000 MeV

Cross Section (milli-barns)

— ENDFB8.0/TENDL

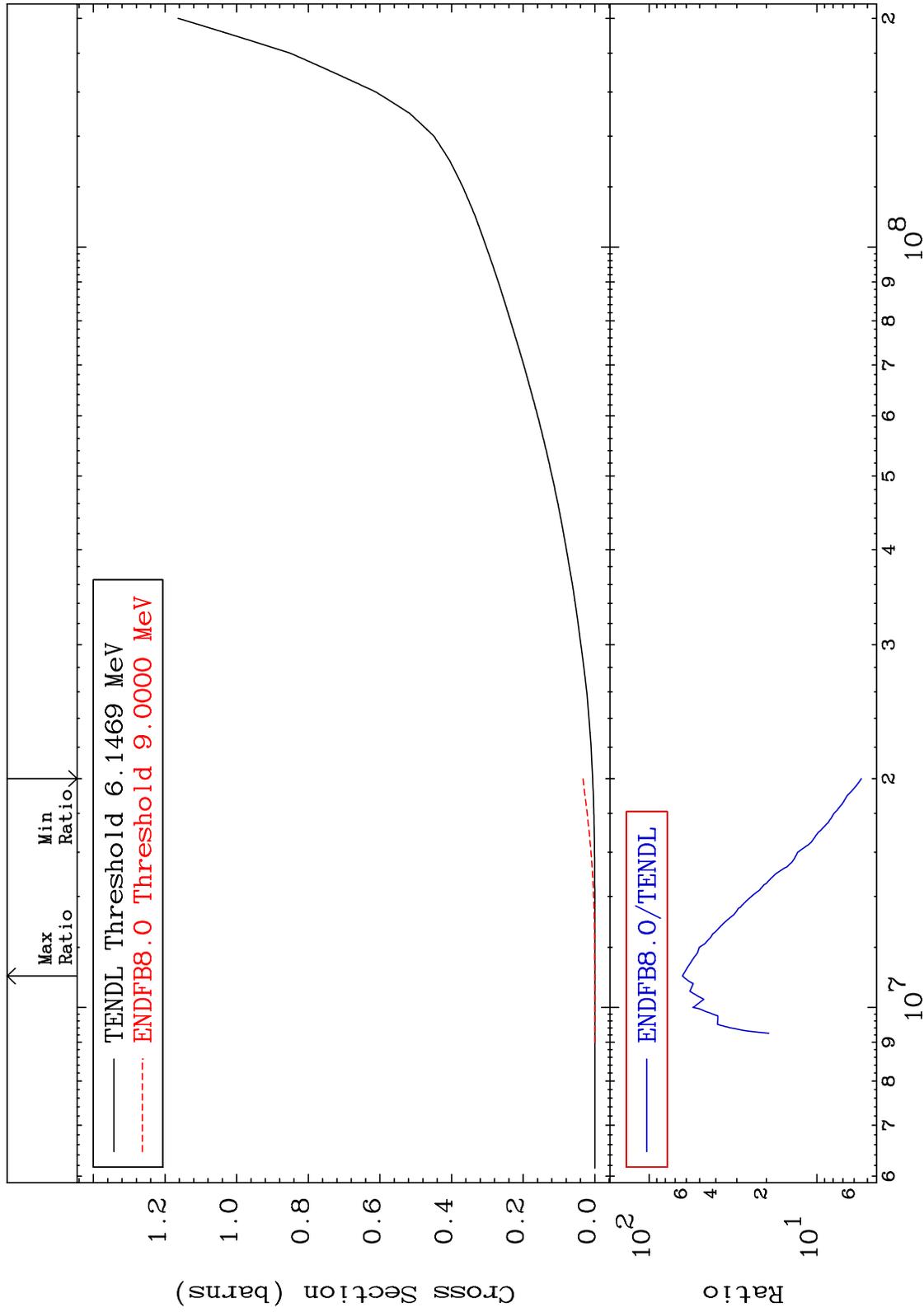
Ratio



MAT 5461

Hydrogen Production
Cross Section

54-Xe-136
443.1 To 6226. %

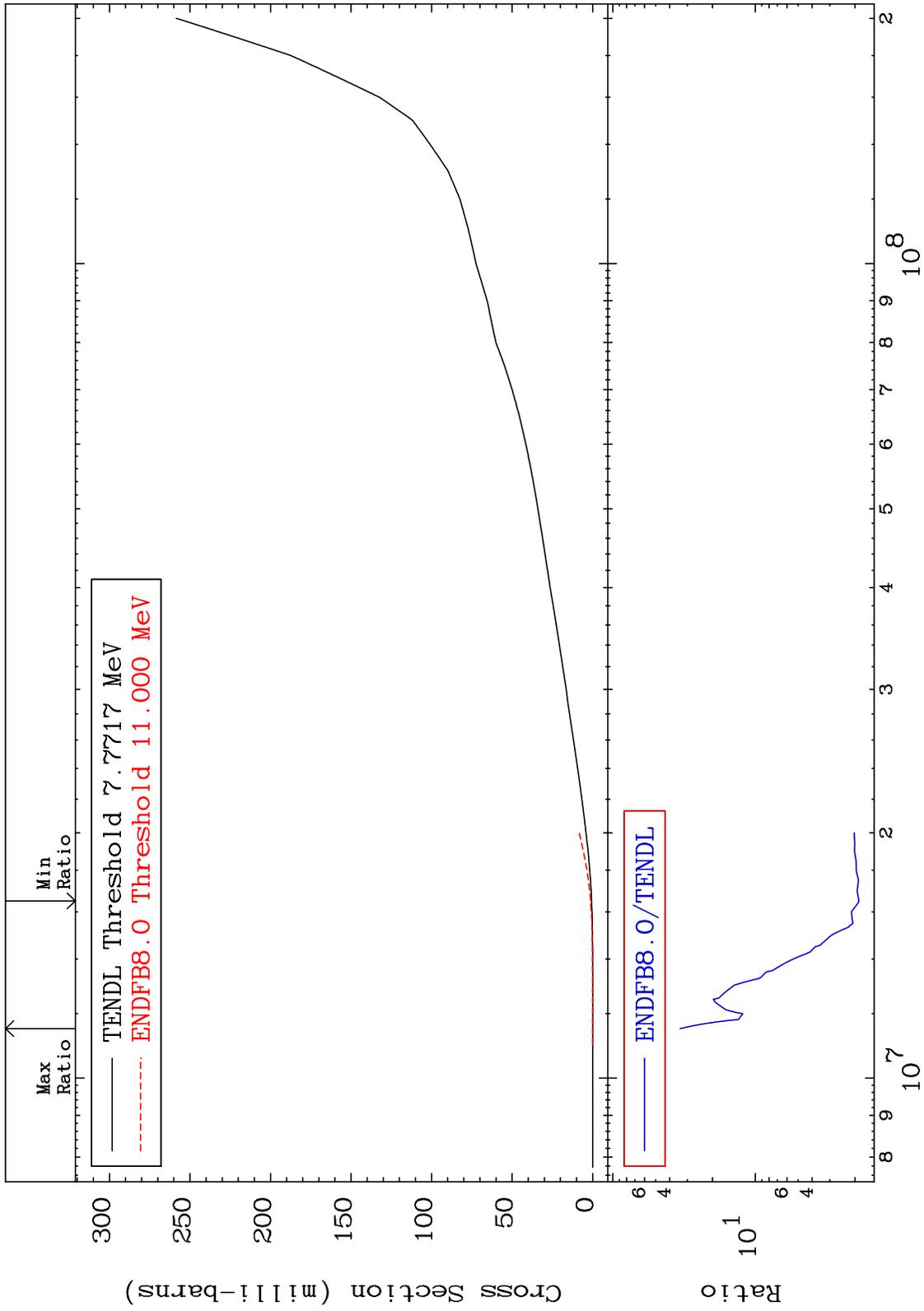


30

Incident Energy (eV)

54-Xe-136

MAT 5461 Deuterium Production Cross Section 54-Xe-136 87.50 To 3267. %

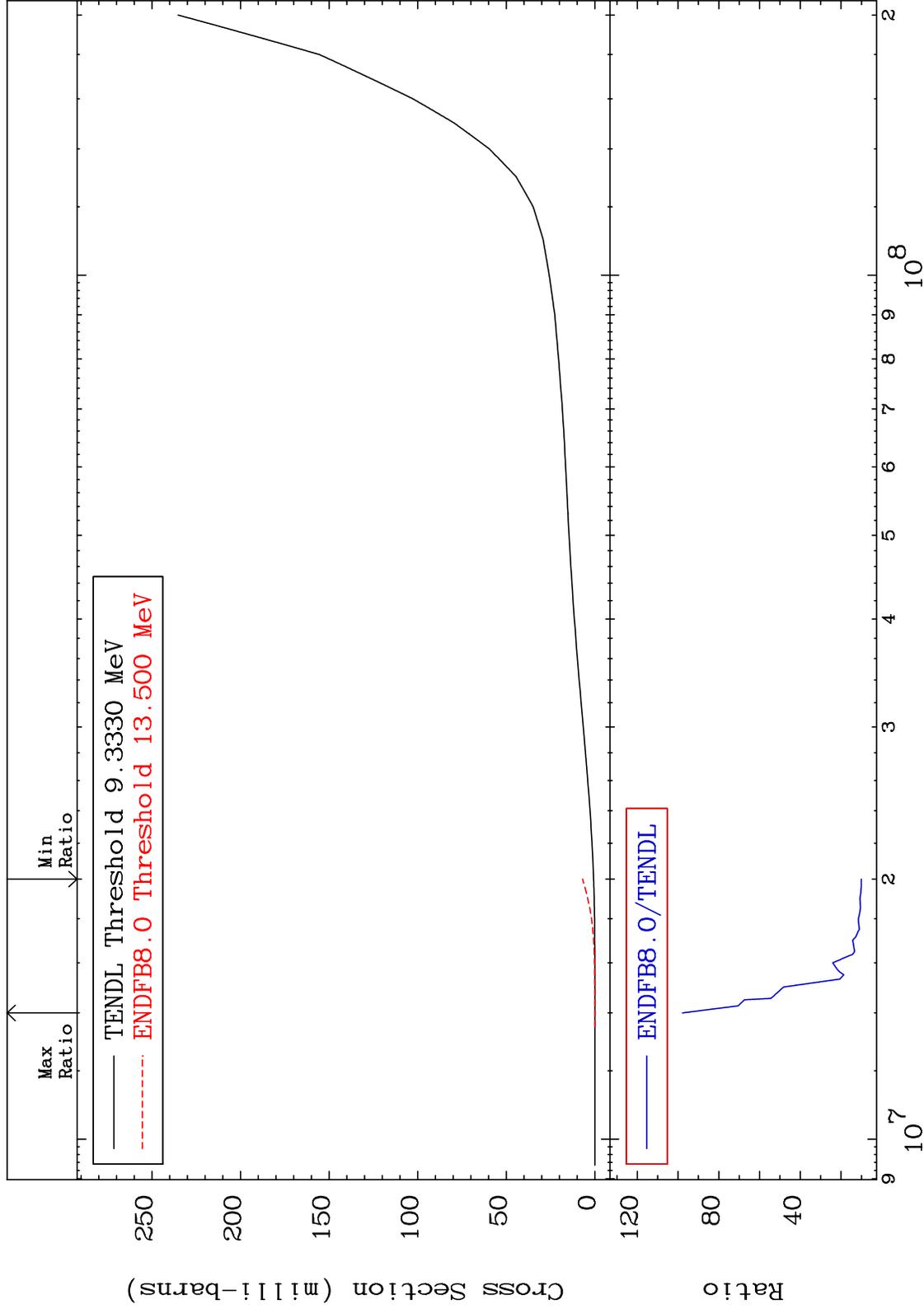


31 54-Xe-136 Incident Energy (eV)

MAT 5461

Tritium Production
Cross Section

54-Xe-136
904.4 To 9684. %



32

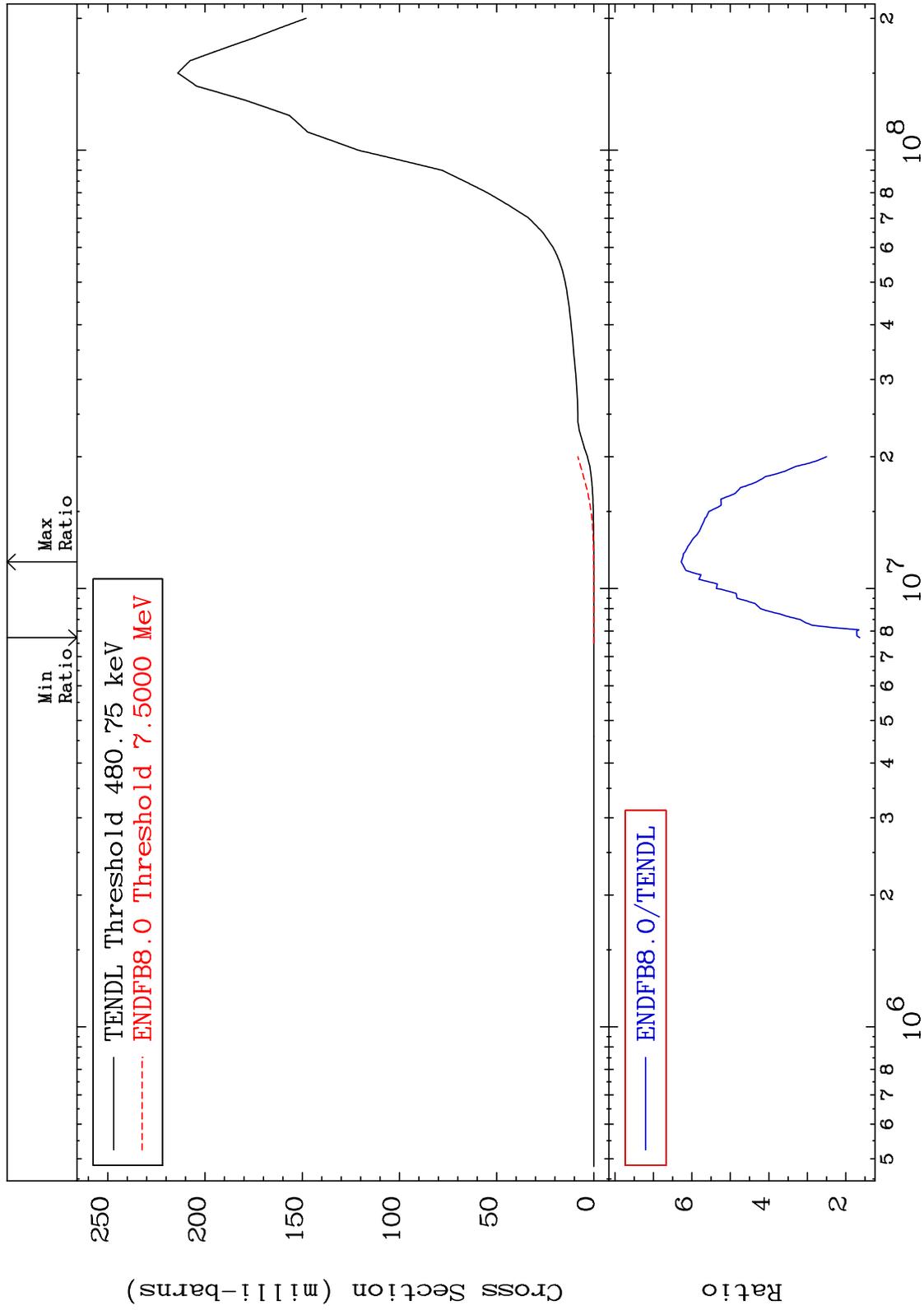
Incident Energy (eV)

54-Xe-136

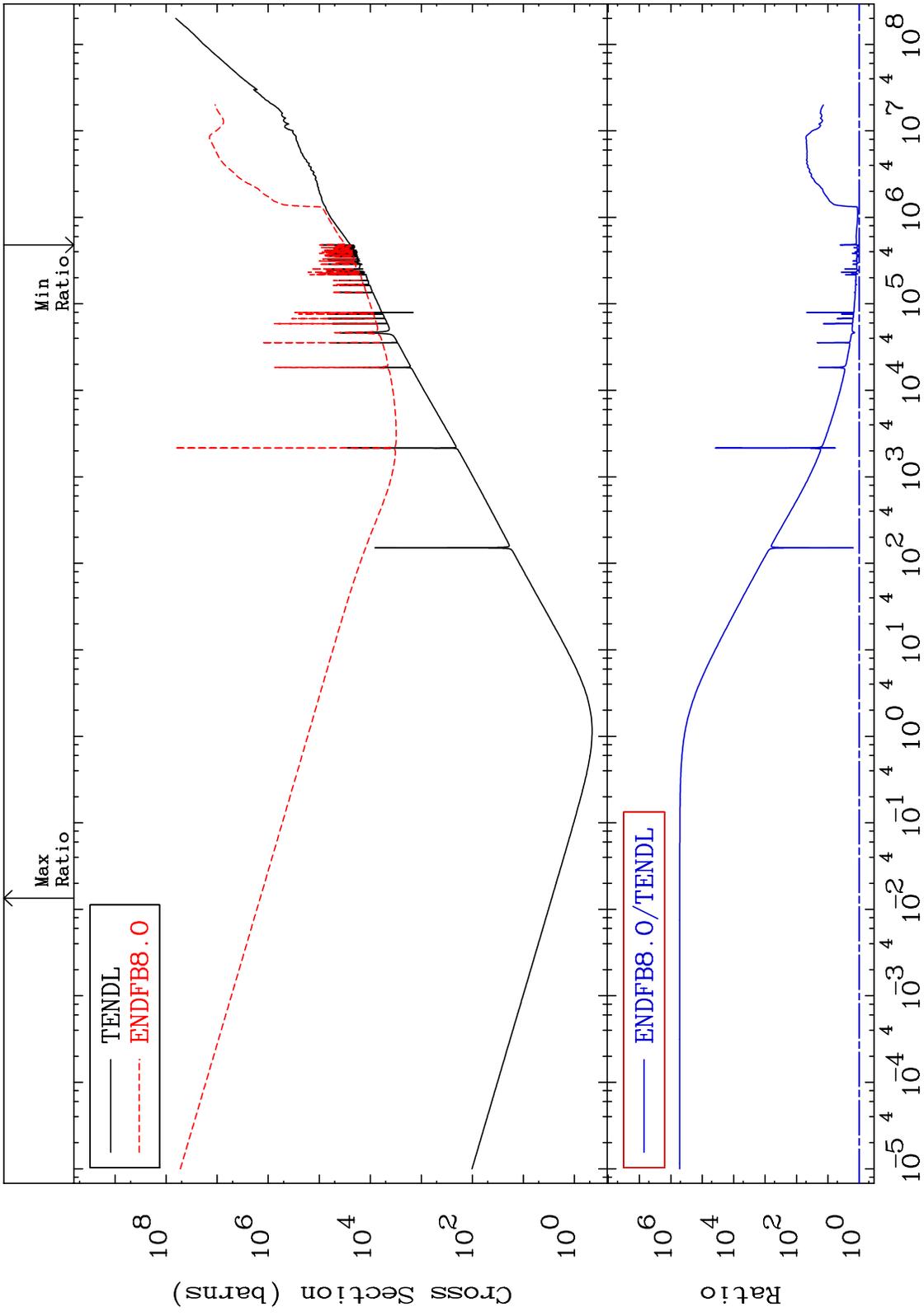
MAT 5461

He-4 Production
Cross Section

54-Xe-136
63.46 To 527.7 %



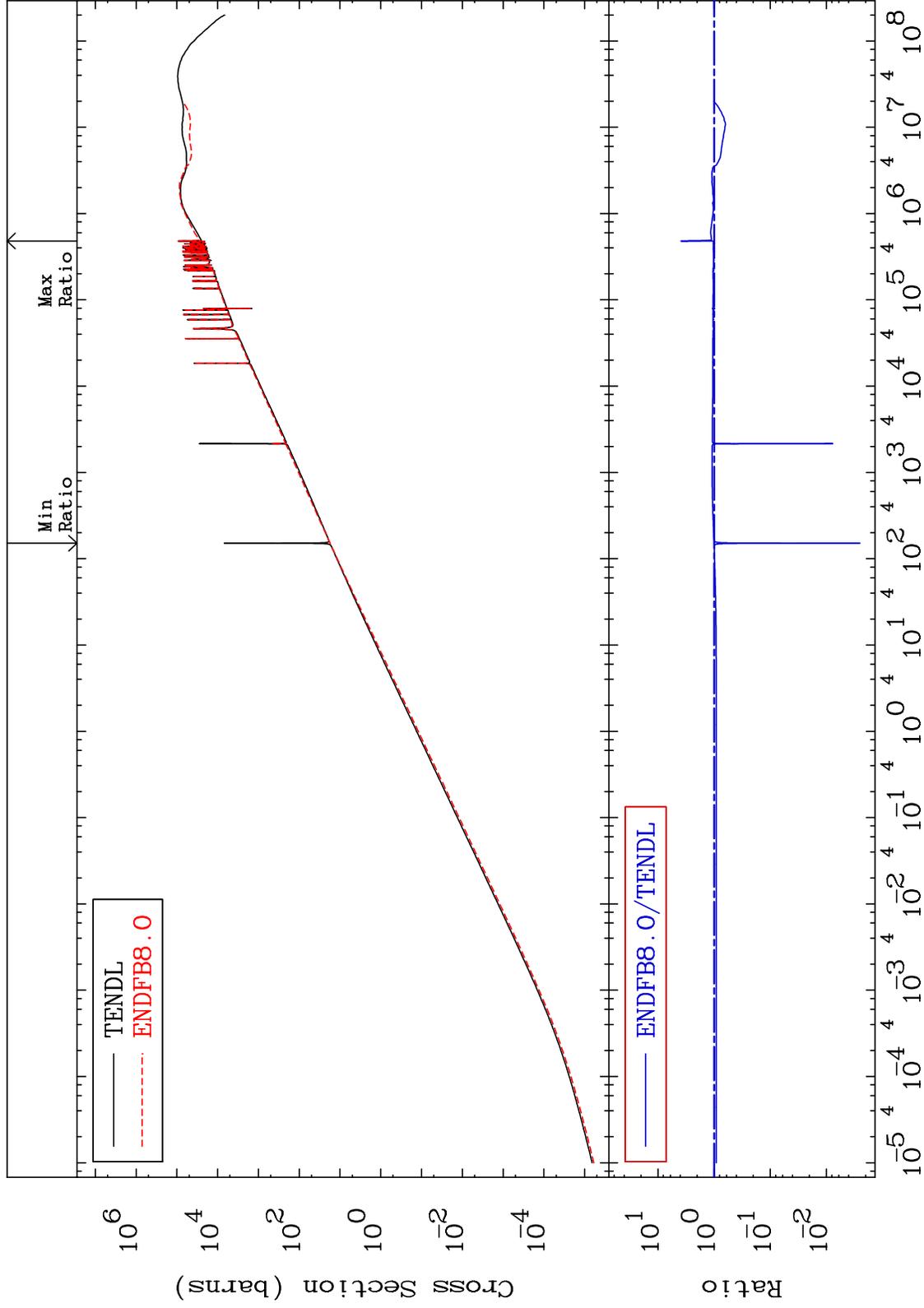
MAT 5461 Kerma total (eV-barns)
 Cross Section 54-Xe-136 3.677 To 9999. %



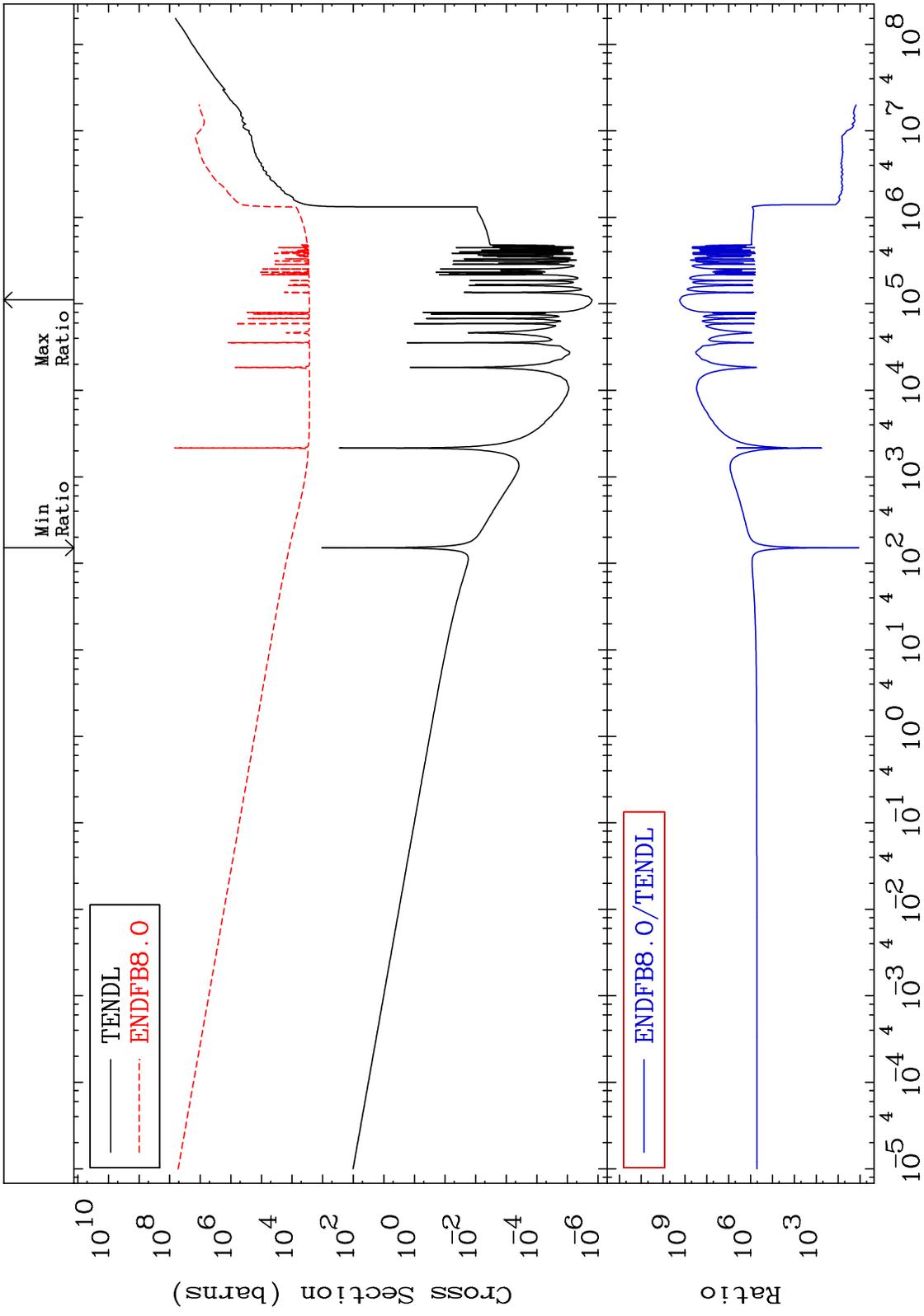
MAT 5461

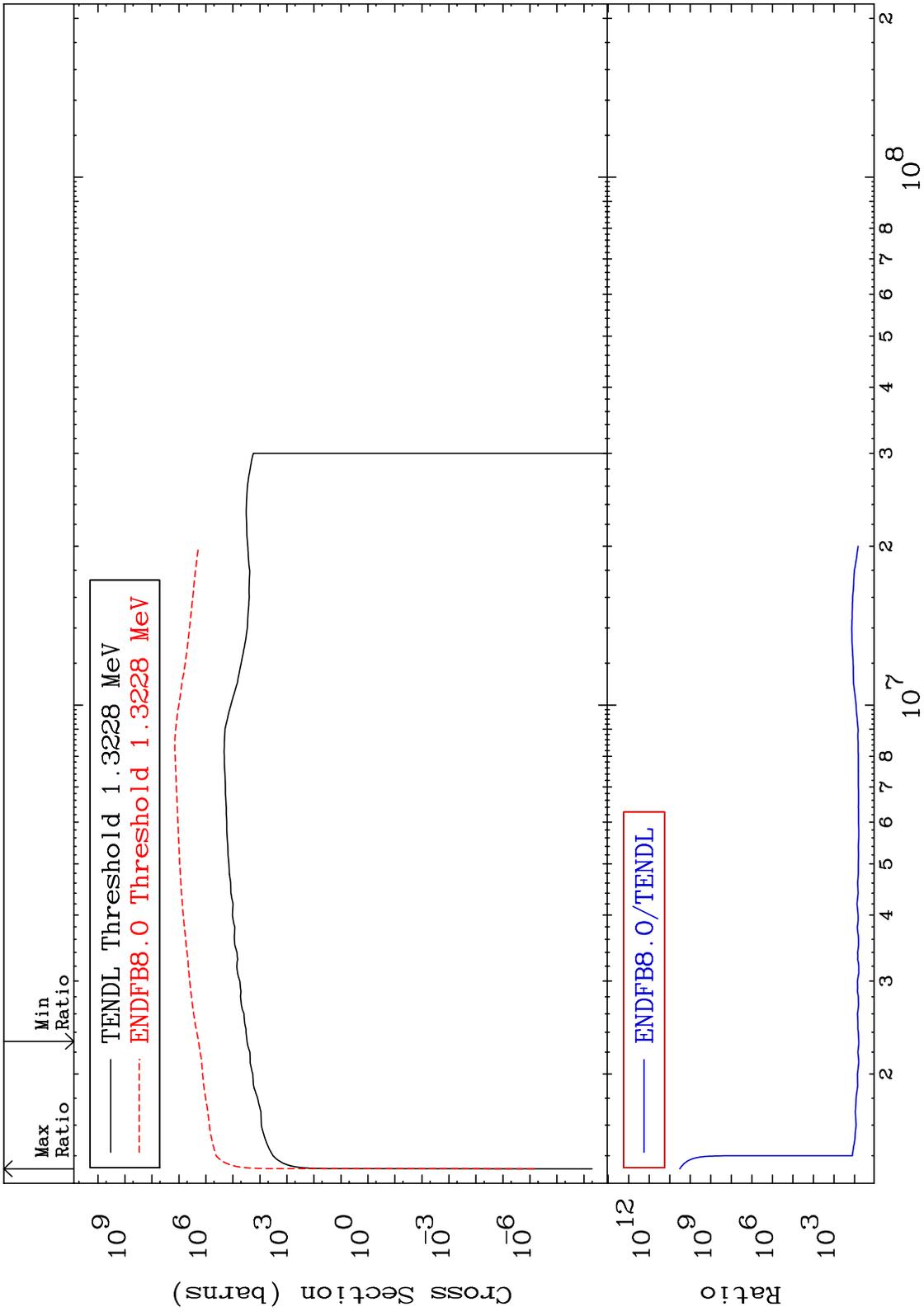
Kerma elastic
Cross Section

54-Xe-136
-99.75 To 284.3 %



MAT 5461 Kerma non-elastic (all but mt2) 54-Xe-136
 Cross Section 1041. To 9999. %

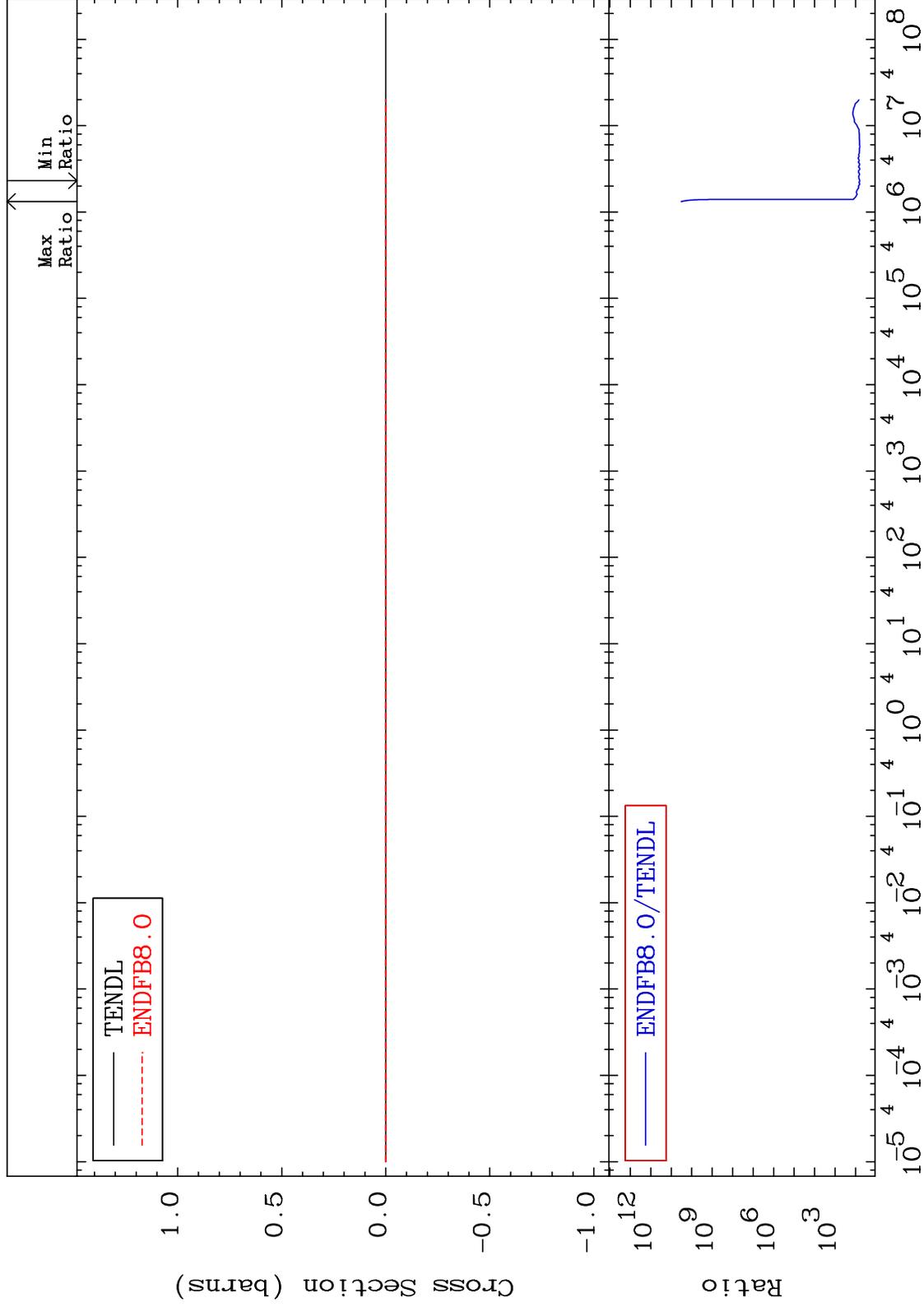




MAT 5461

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

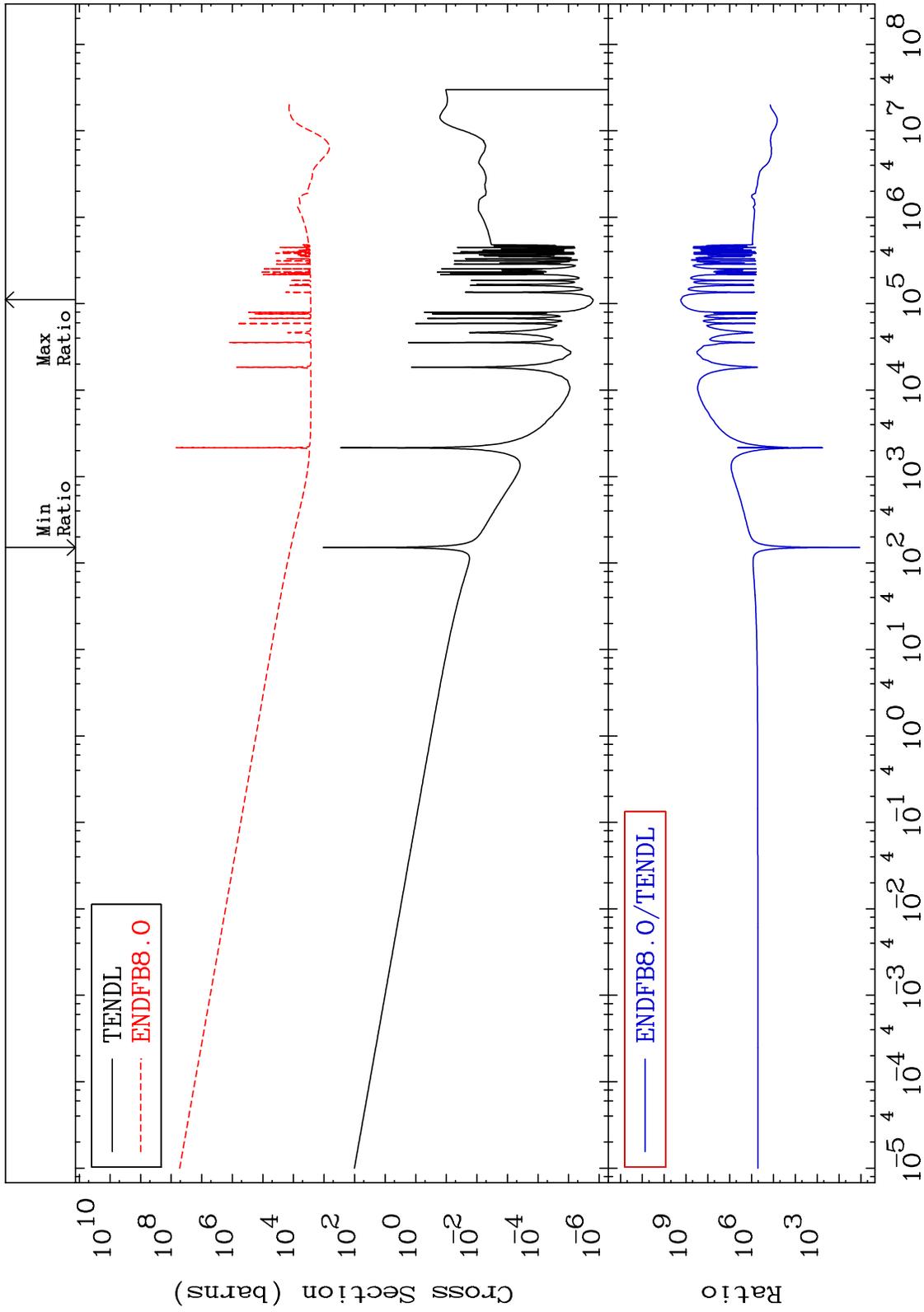
54-Xe-136
6112. To 9999. %



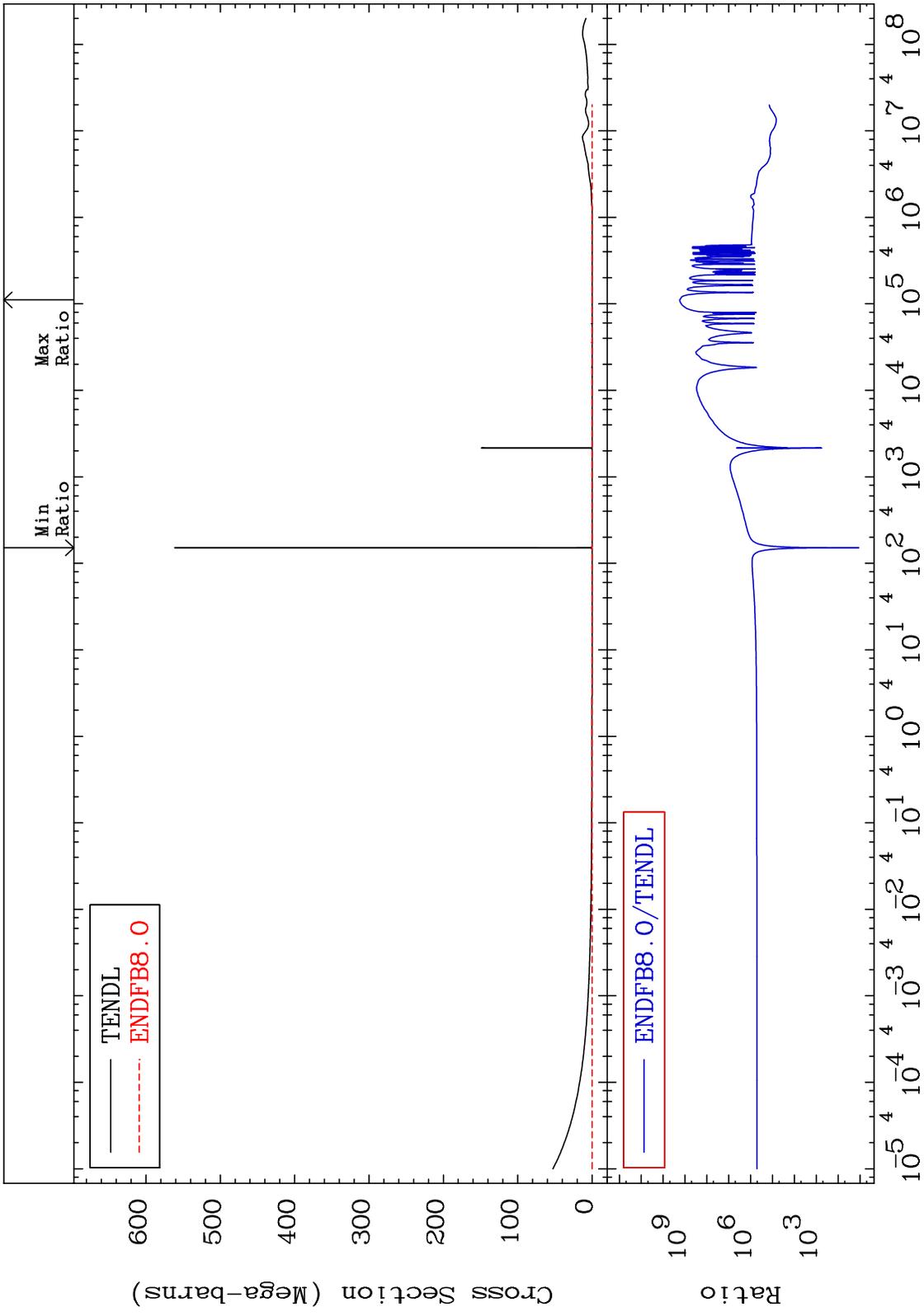
MAT 5461

Kerma capture (mt102)
Cross Section

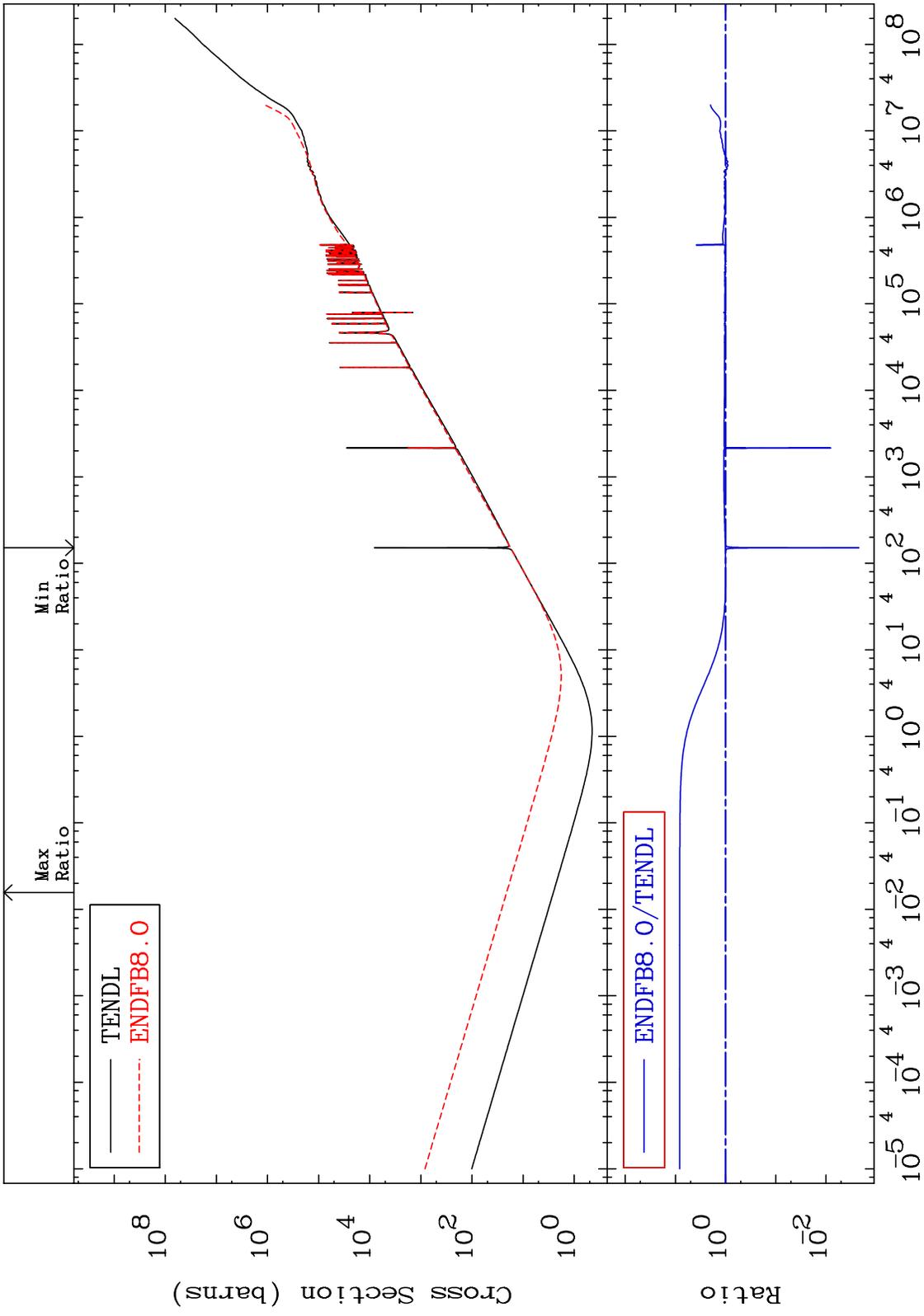
54-Xe-136
1041. To 9999. %



MAT 5461 Total photon (eV-barns) Cross Section 54-Xe-136 To 9999. %



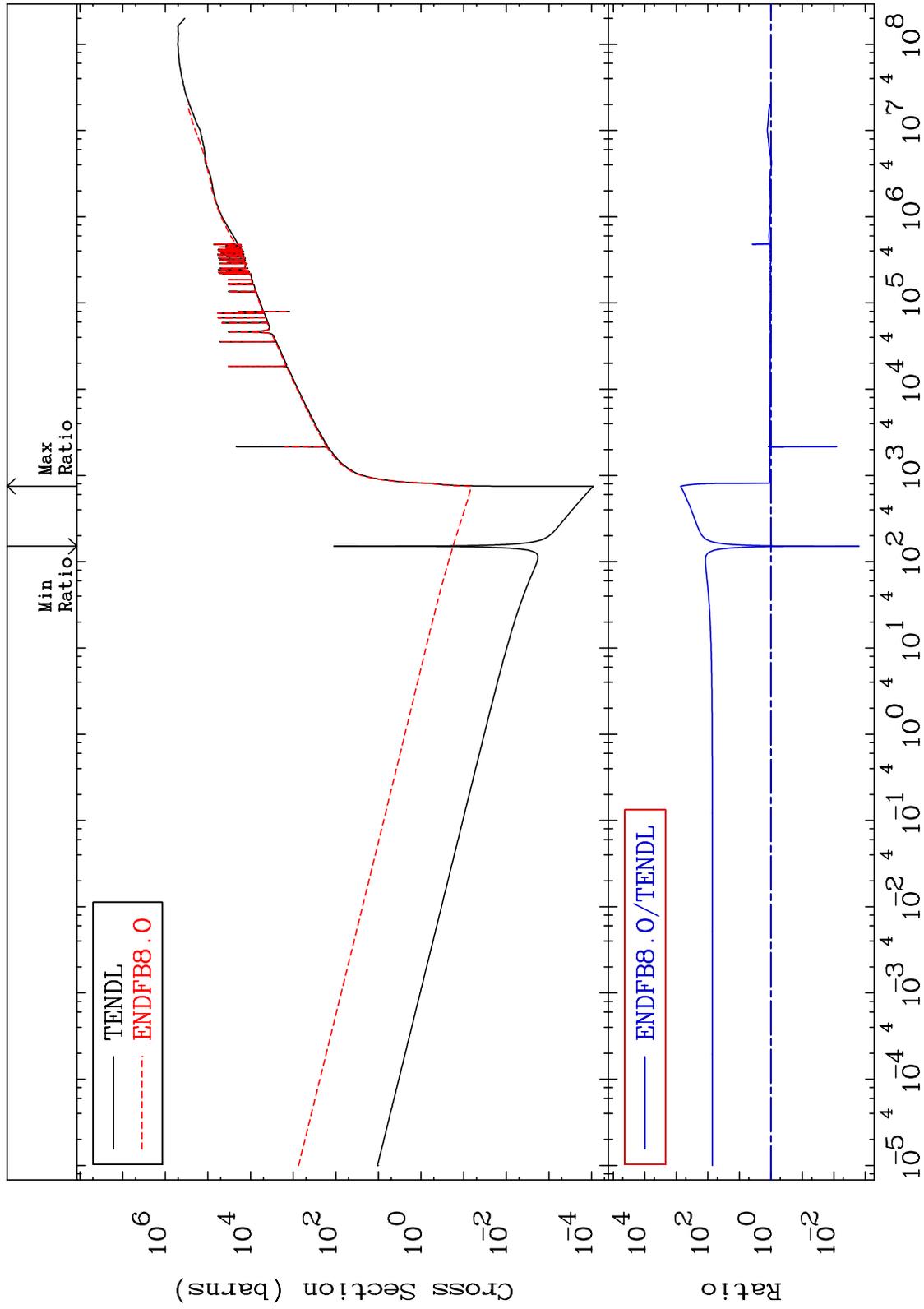
MAT 5461 Total kinematic kerma (high limit) Cross Section 54-Xe-136 -99.78 To 720.7 %



MAT 5461

Dpa total (eV-barns)
Cross Section

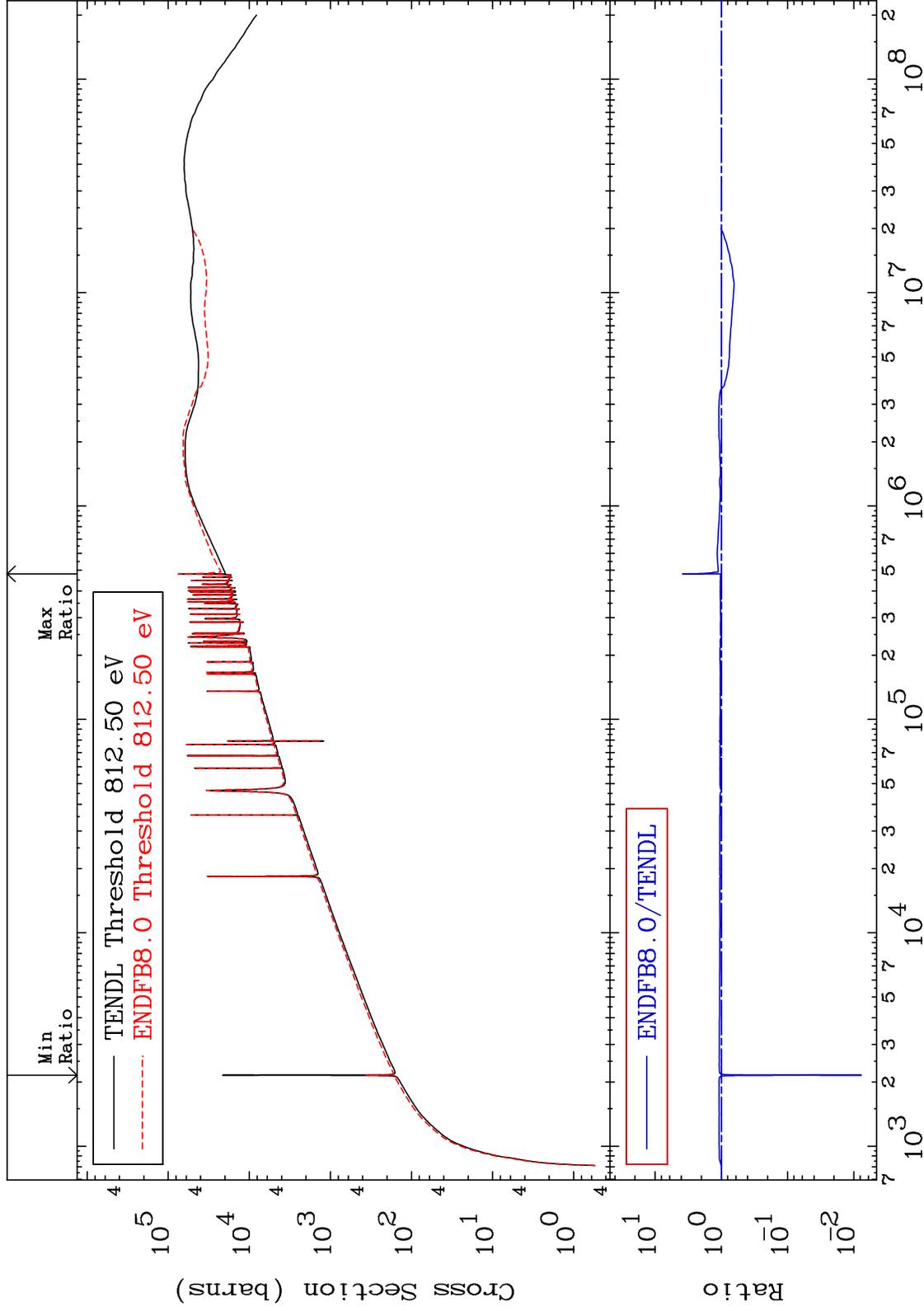
54-Xe-136
-99.84 To 9999. %

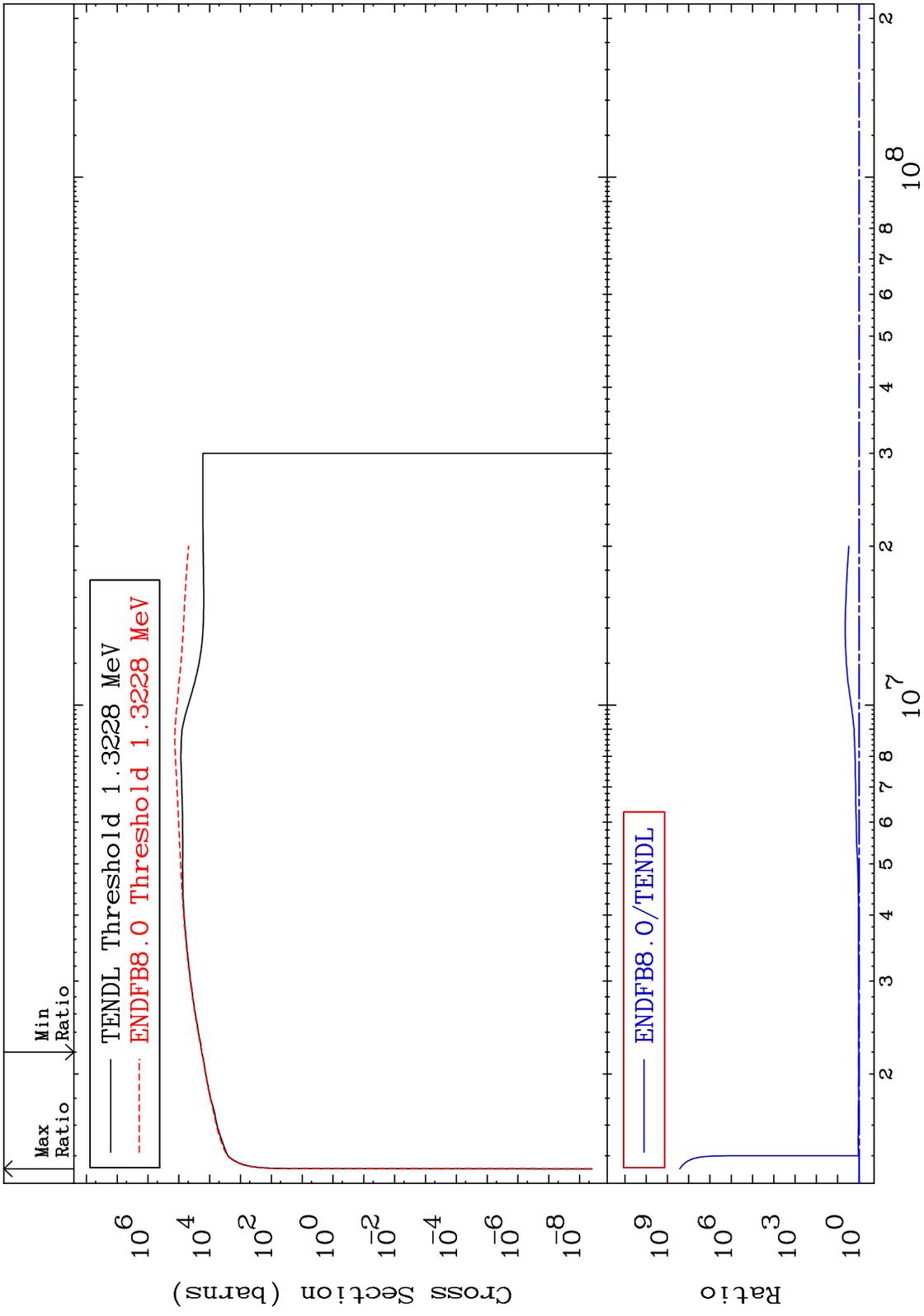


MAT 5461

Dpa elastic (mt2)
Cross Section

54-Xe-136
-99.23 To 284.9 %





MAT 5461

Dpa disappearance (mt102 -120)
Cross Section

54-Xe-136
-99.84 To 9999. %

