

Program Complot  
(Version 2021-1)

by

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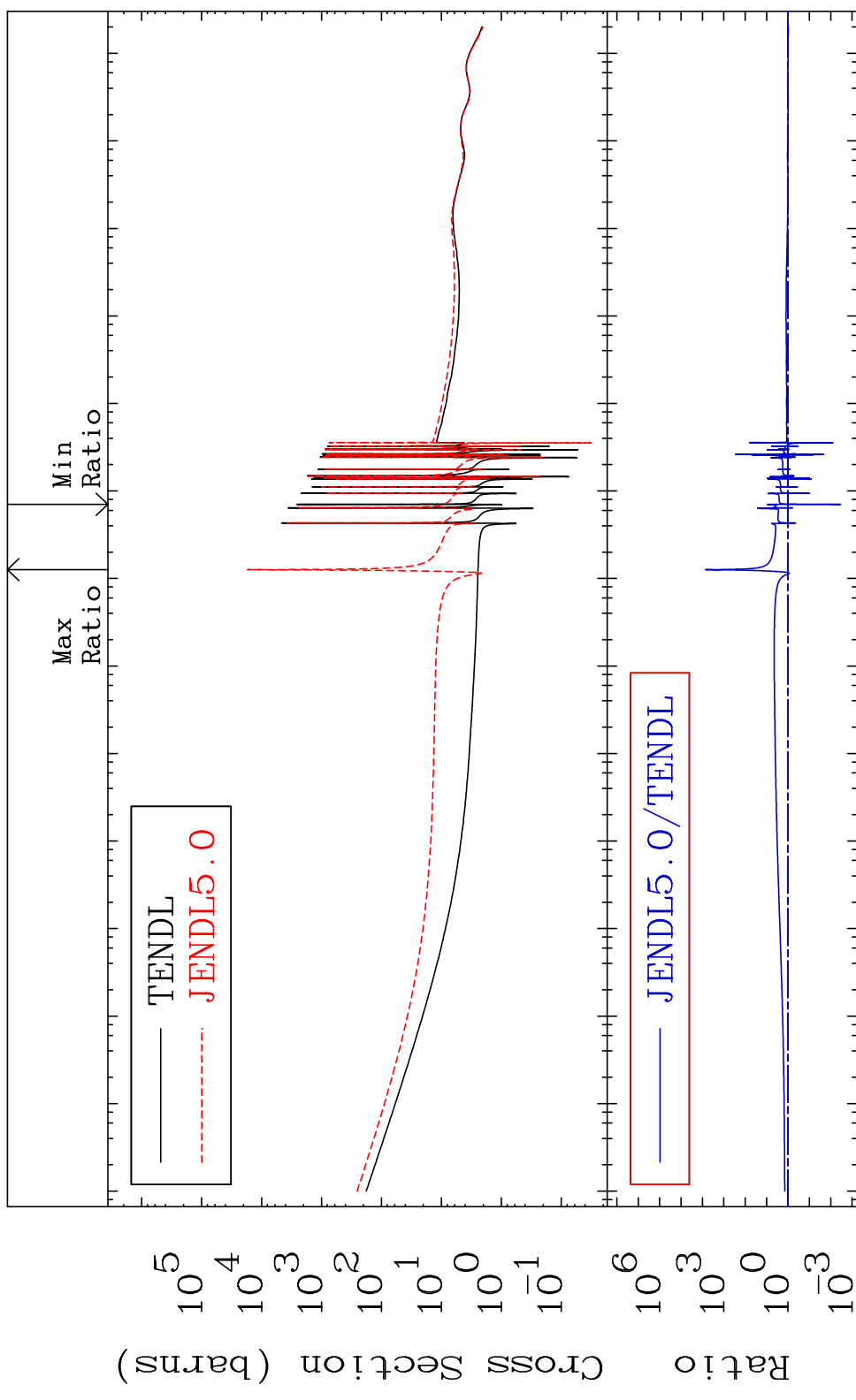
Tele: 925-443-1911

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

Press Mouse Button to Start

MAT 5443

Total Cross Section  
54-Xe-130  
-99.65 To 9999. %



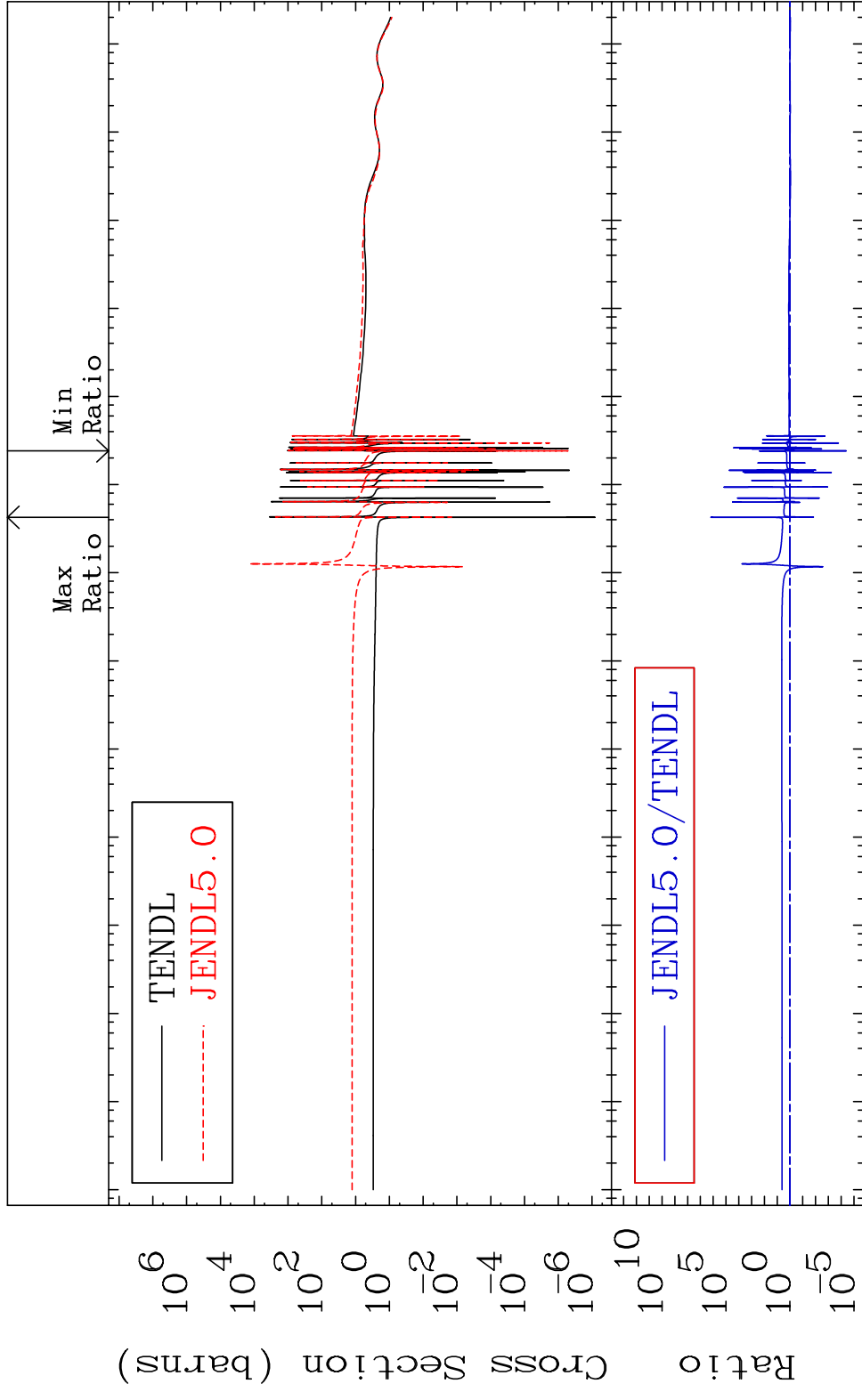
1 Incident Energy (eV) 54-Xe-130

MAT 5443

54-Xe-130

Elastic

Cross Section -100.0 To 9999. %



Ratio

10<sup>6</sup>

10<sup>4</sup>

10<sup>2</sup>

10<sup>0</sup>

10<sup>-2</sup>

10<sup>-4</sup>

10<sup>-6</sup>

10<sup>10</sup>

10<sup>5</sup>

10<sup>0</sup>

10<sup>-5</sup>

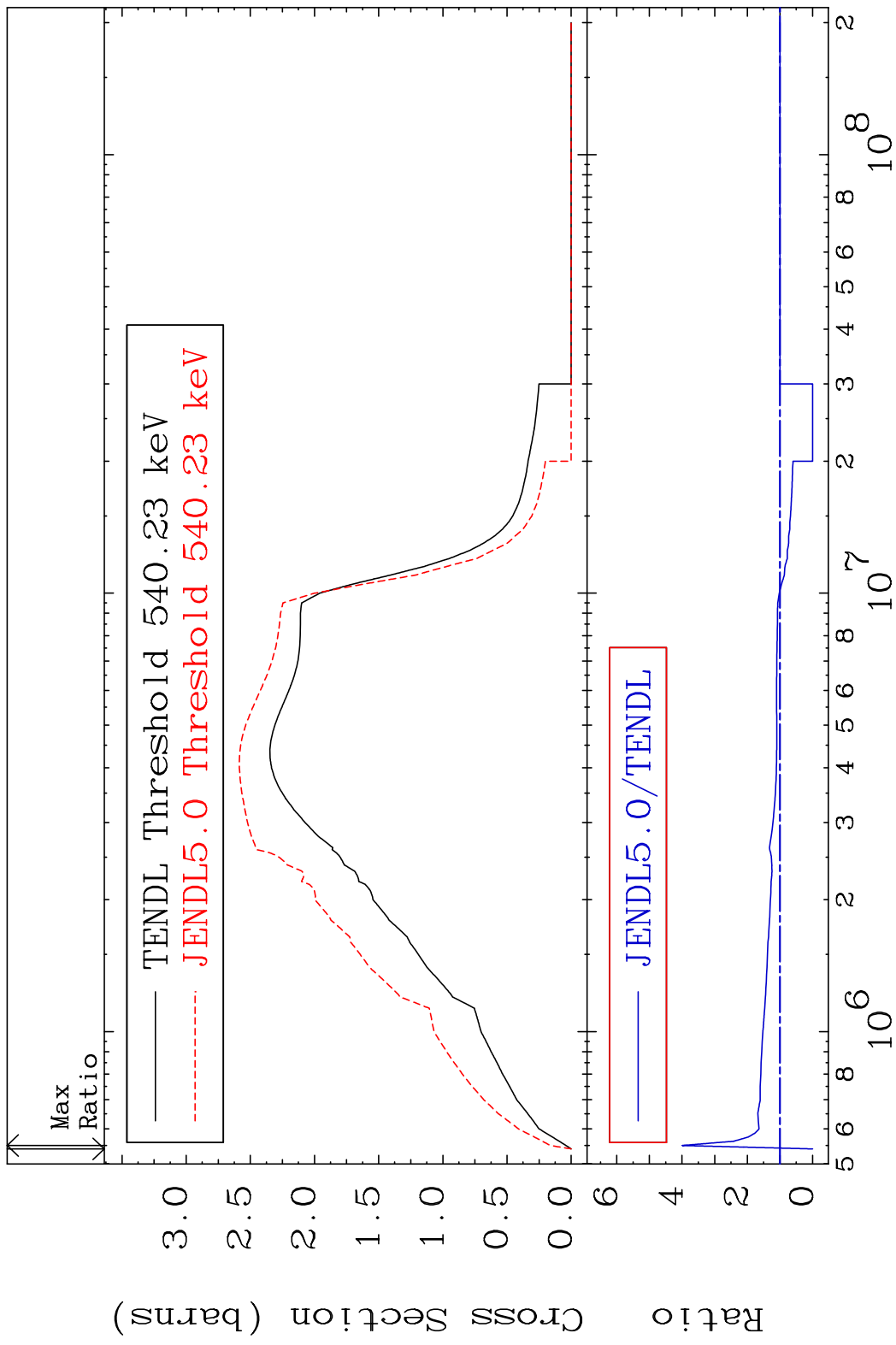
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

2

Incident Energy (eV)

54-Xe-130

MAT 5443 Inelastic 54-Xe-130  
 Cross Section -100.0 To 299.0 %



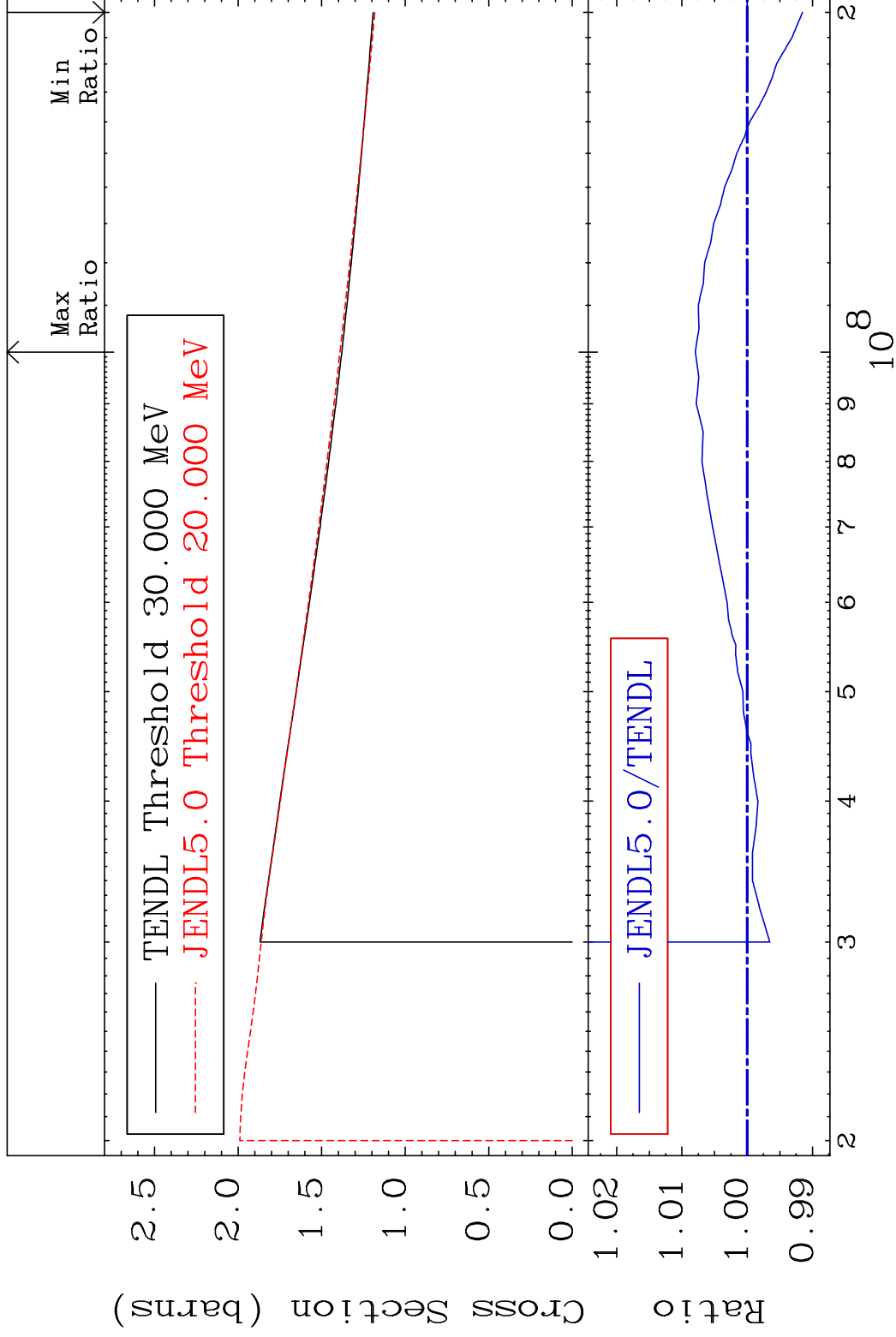
3 Incident Energy (eV) 54-Xe-130

MAT 5443

(n, remainder)

54-Xe-130

Cross Section -0.848 To 0.796 %



4

Incident Energy (eV)

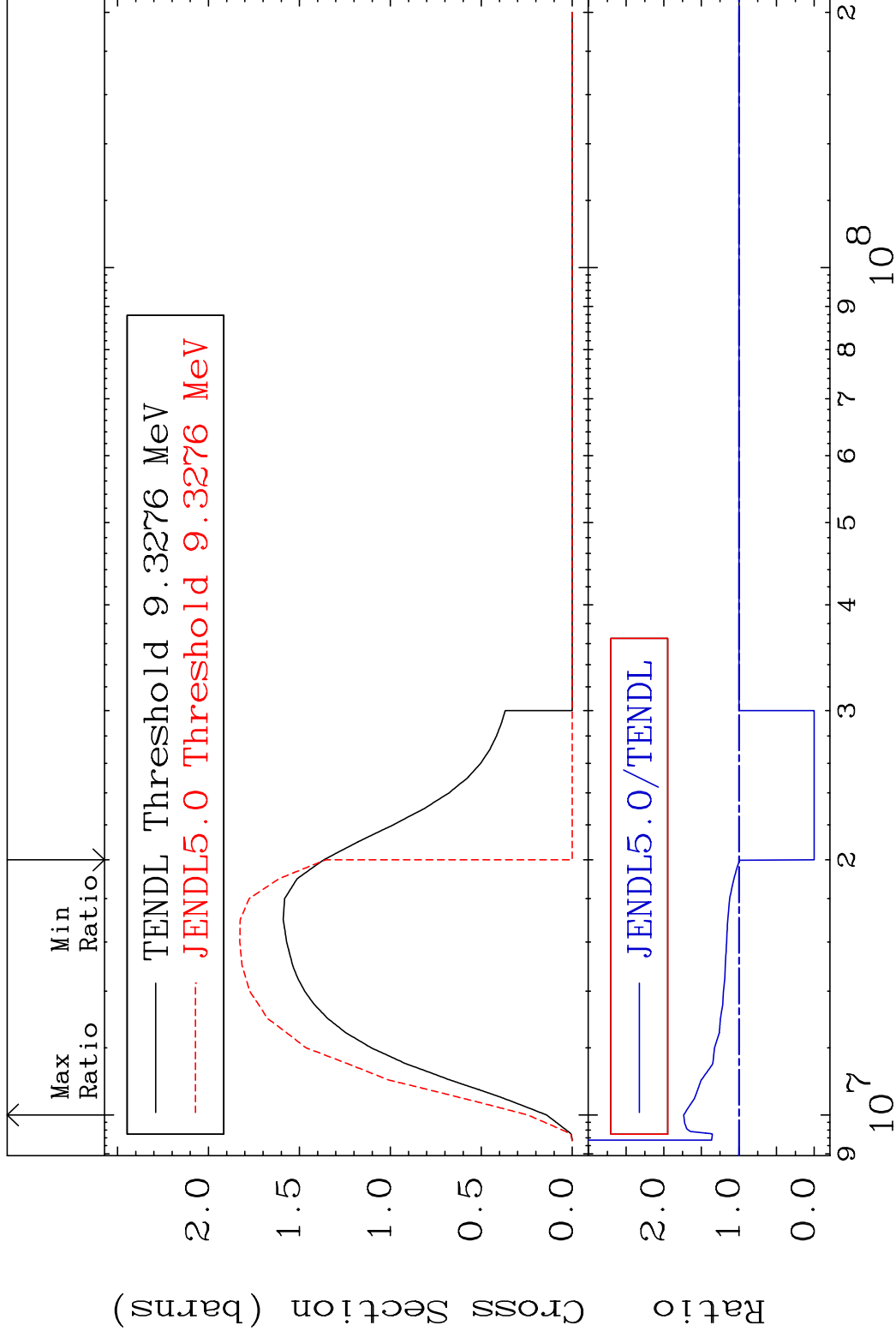
54-Xe-130

MAT 5443

(n,2n)

54-Xe-130

Cross Section -100.0 To 73.52 %



5

Incident Energy (eV)

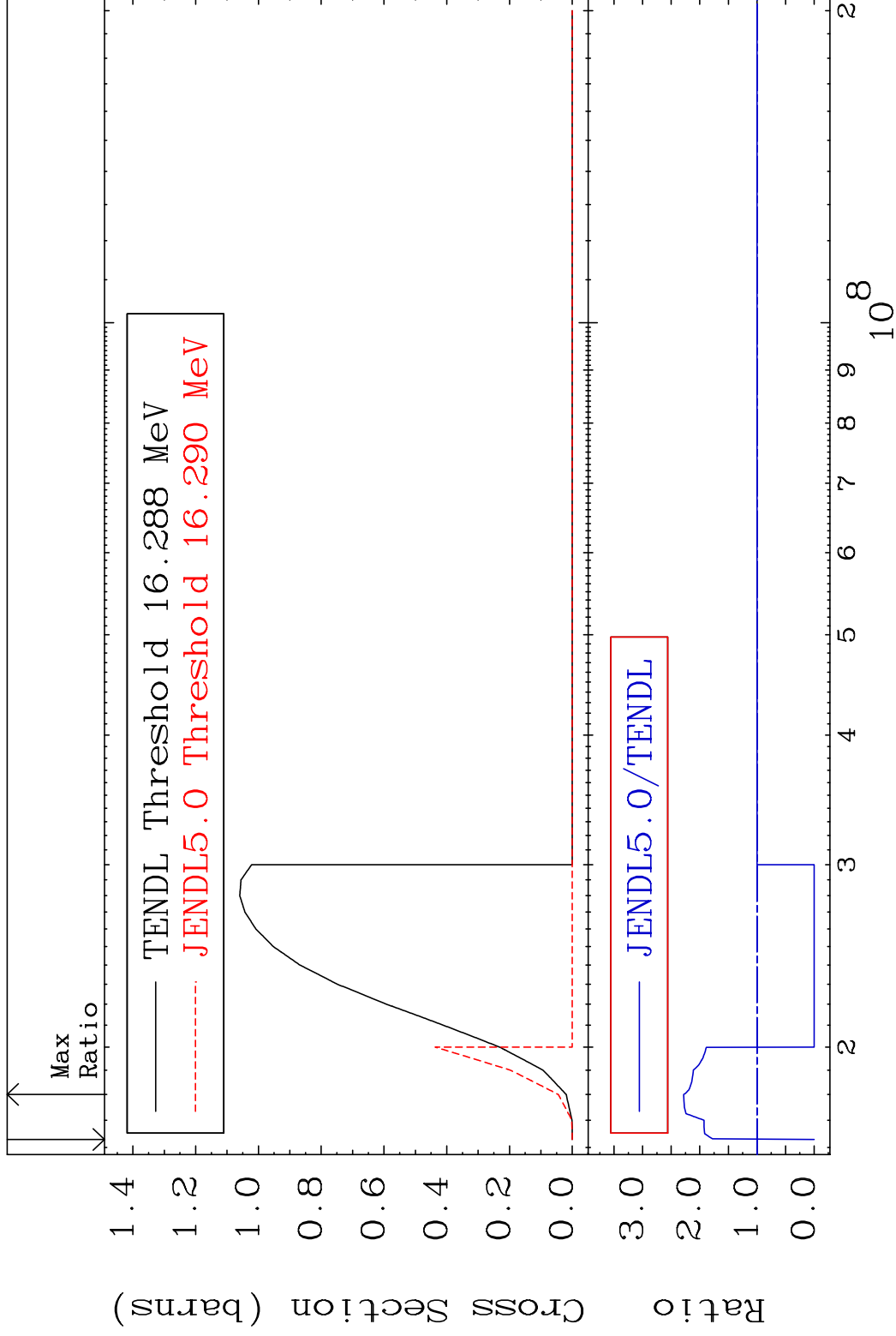
54-Xe-130

MAT 5443

(n,3n)

54-Xe-130

Cross Section -100.0 To 128.2 %

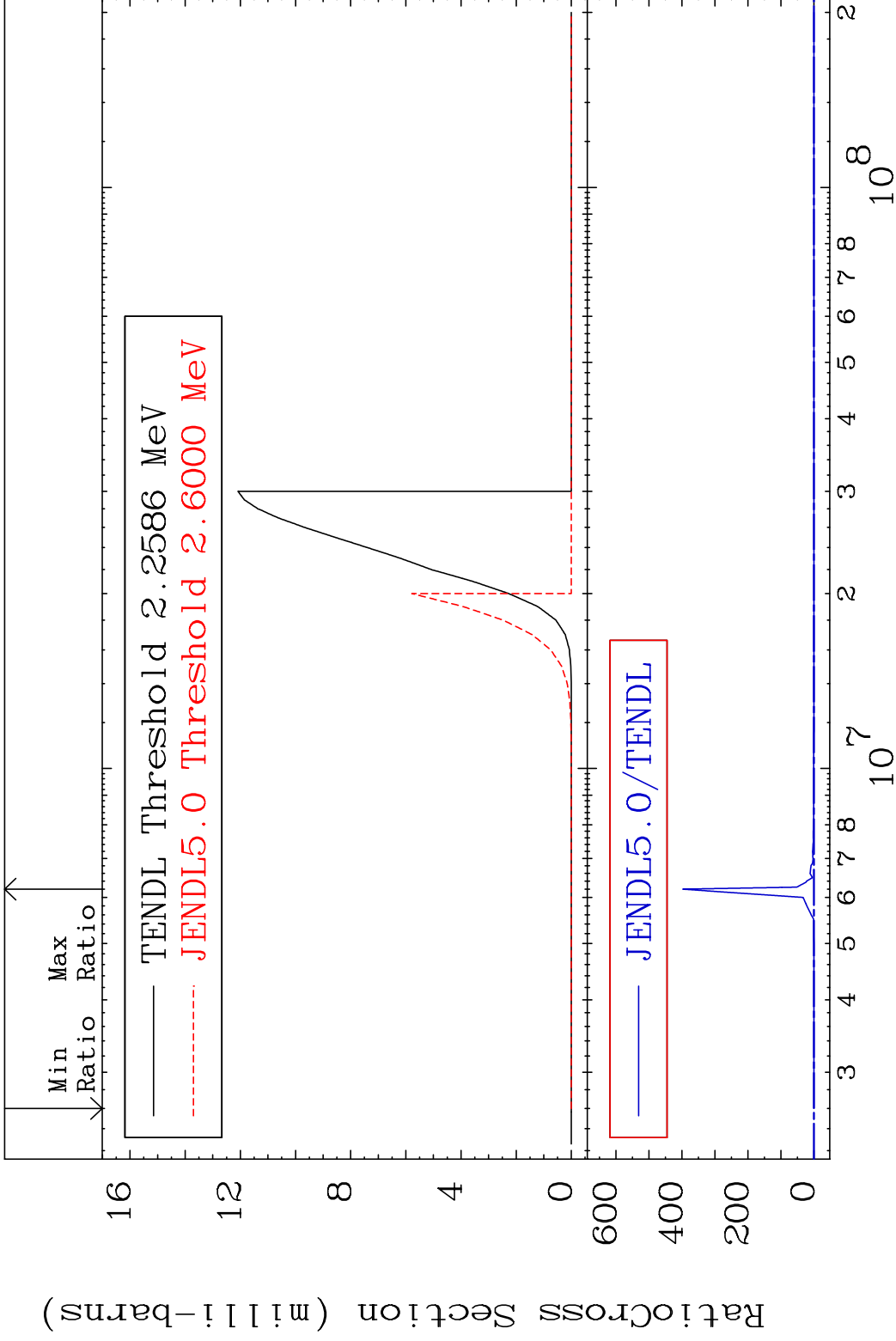


MAT 5443

(n, n')  $\alpha$

54-Xe-130

Cross Section -100.0 To 9999. %



7

Incident Energy (eV)

54-Xe-130

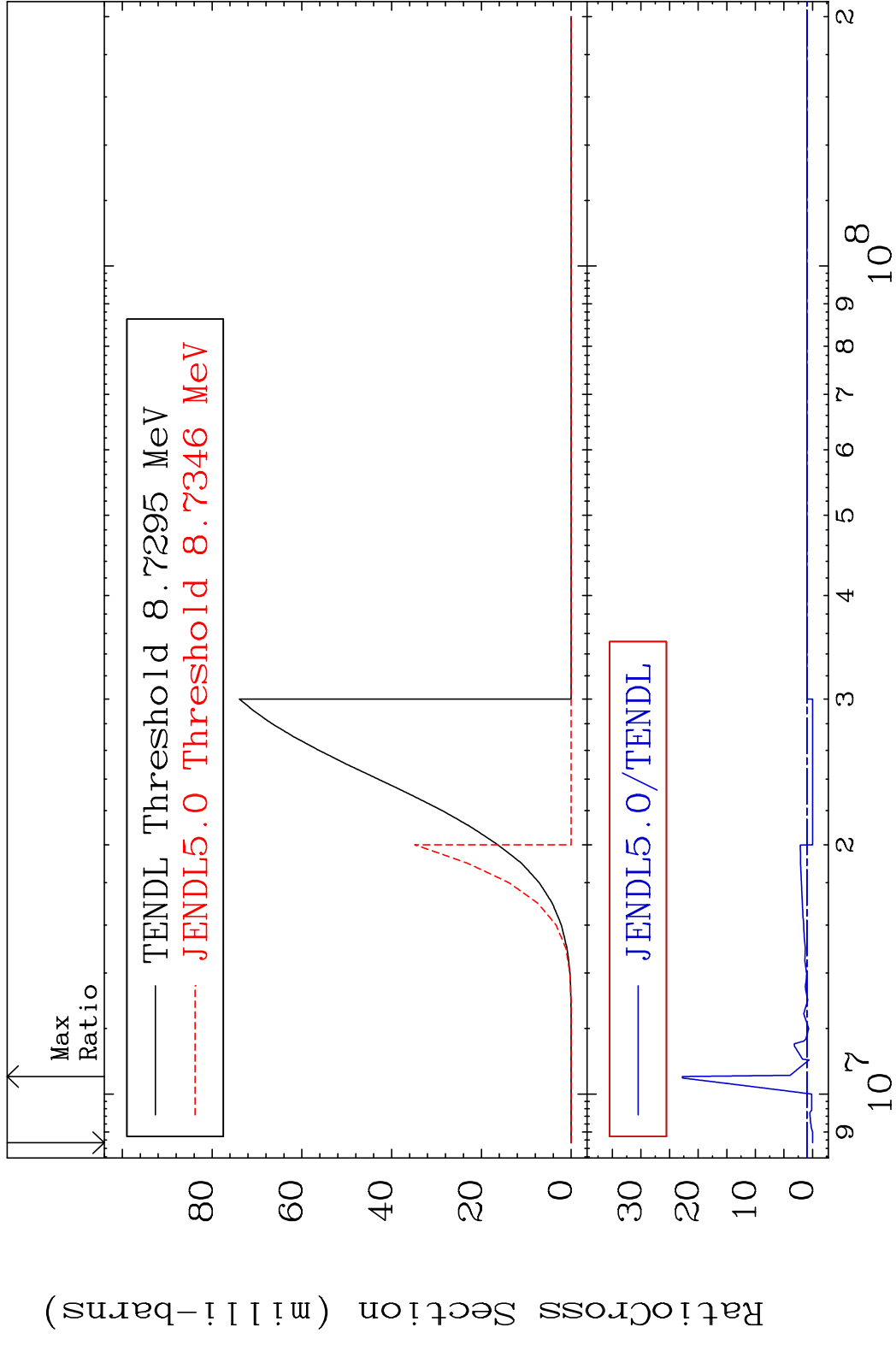


MAT 5443

(n, n') p

54-Xe-130

Cross Section -100.0 To 2176. %

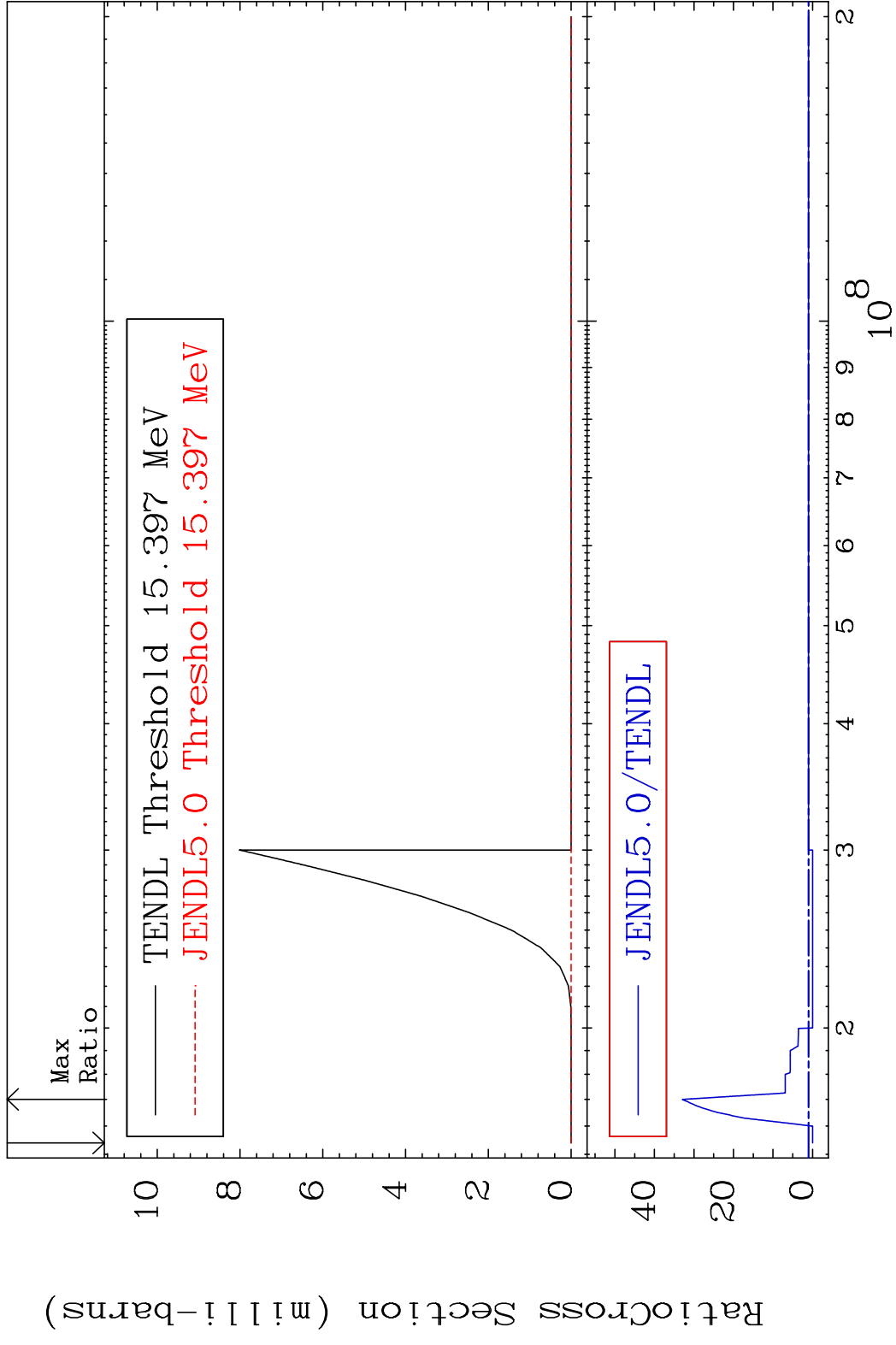


8

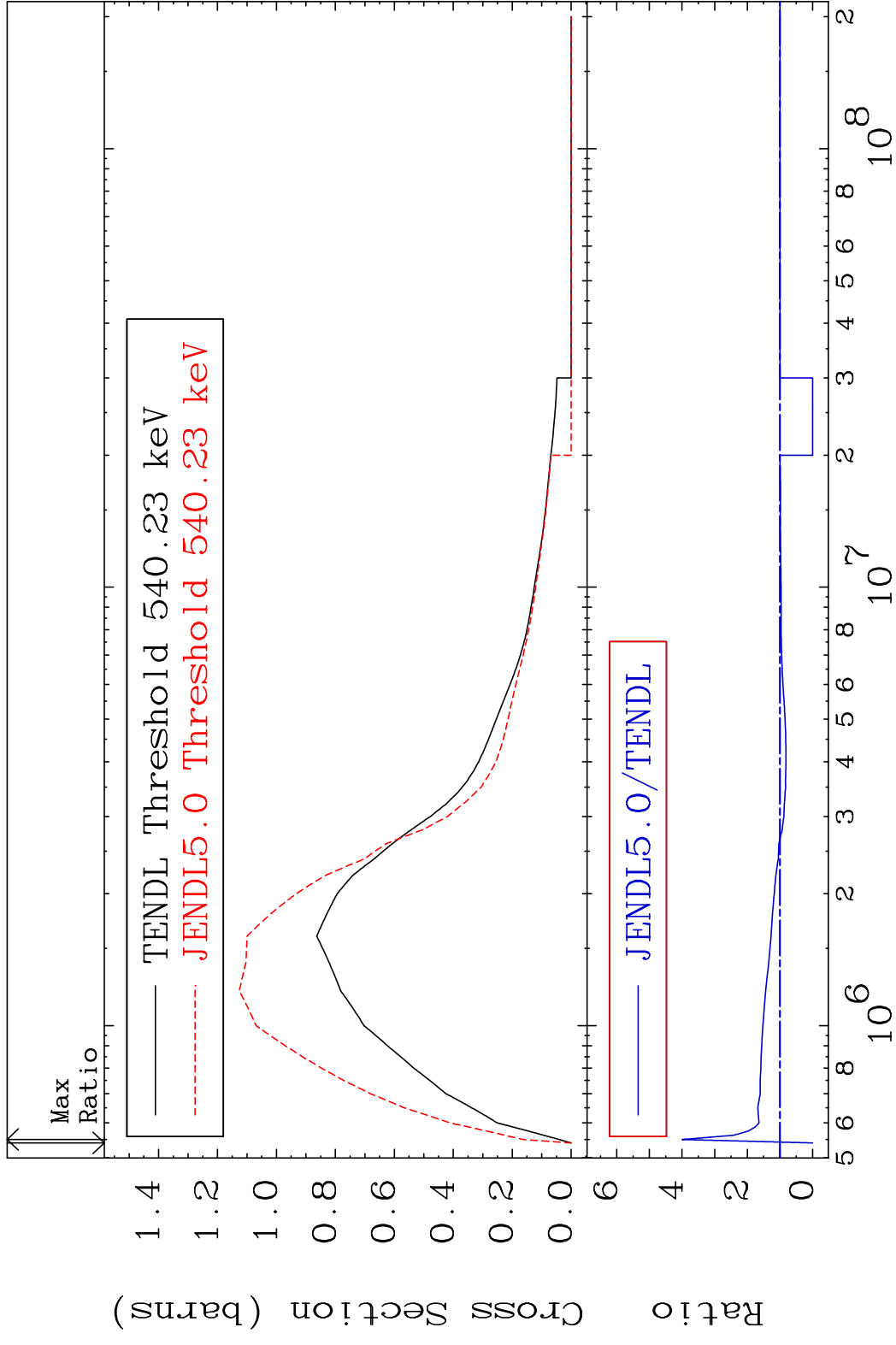
Incident Energy (eV)

54-Xe-130

MAT 5443 (n, n') d 54-Xe-130  
 Cross Section -100.0 To 3194. %

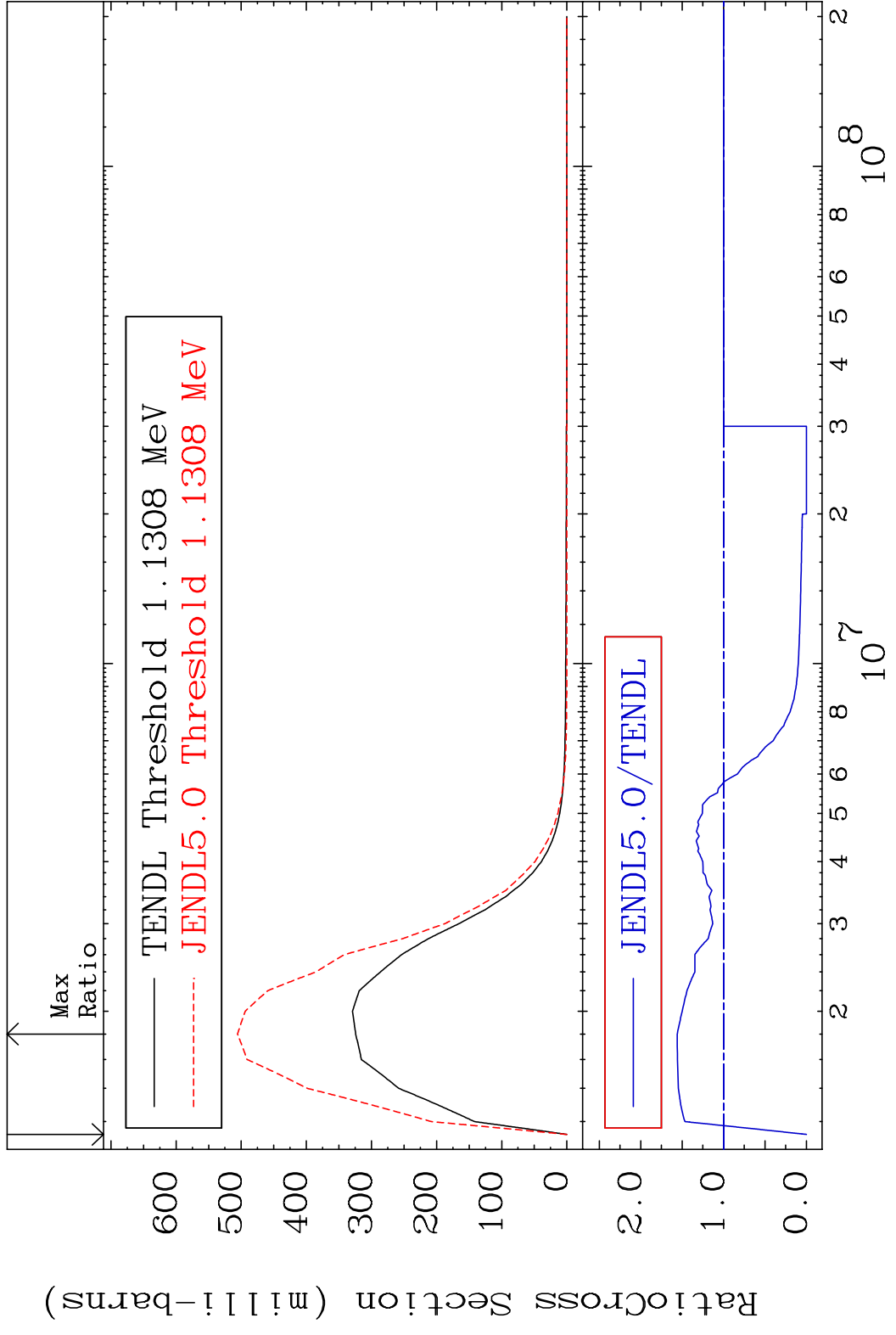


MAT 5443 MT= 51 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 299.0 %

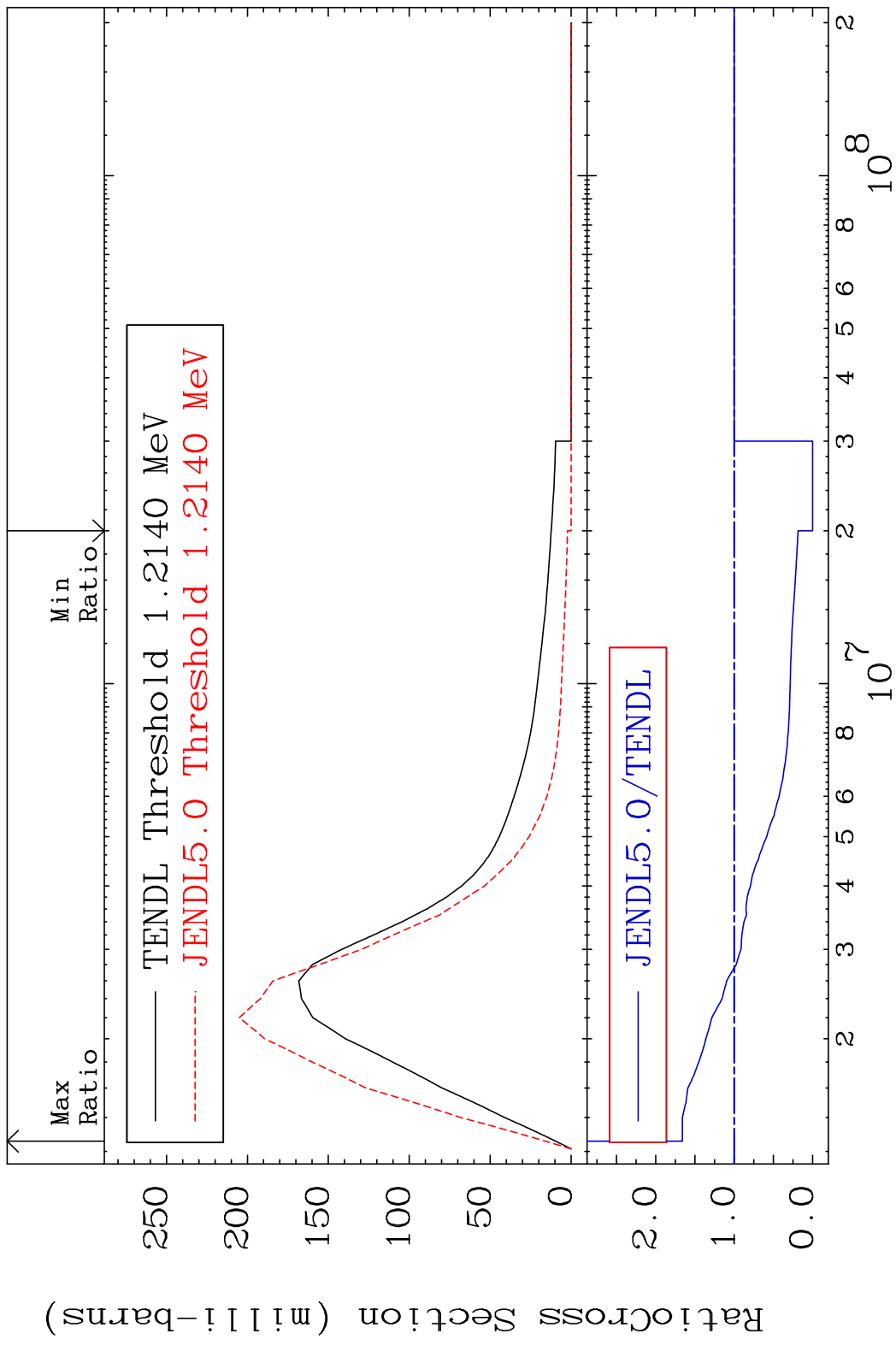


10 Incident Energy (eV) 54-Xe-130

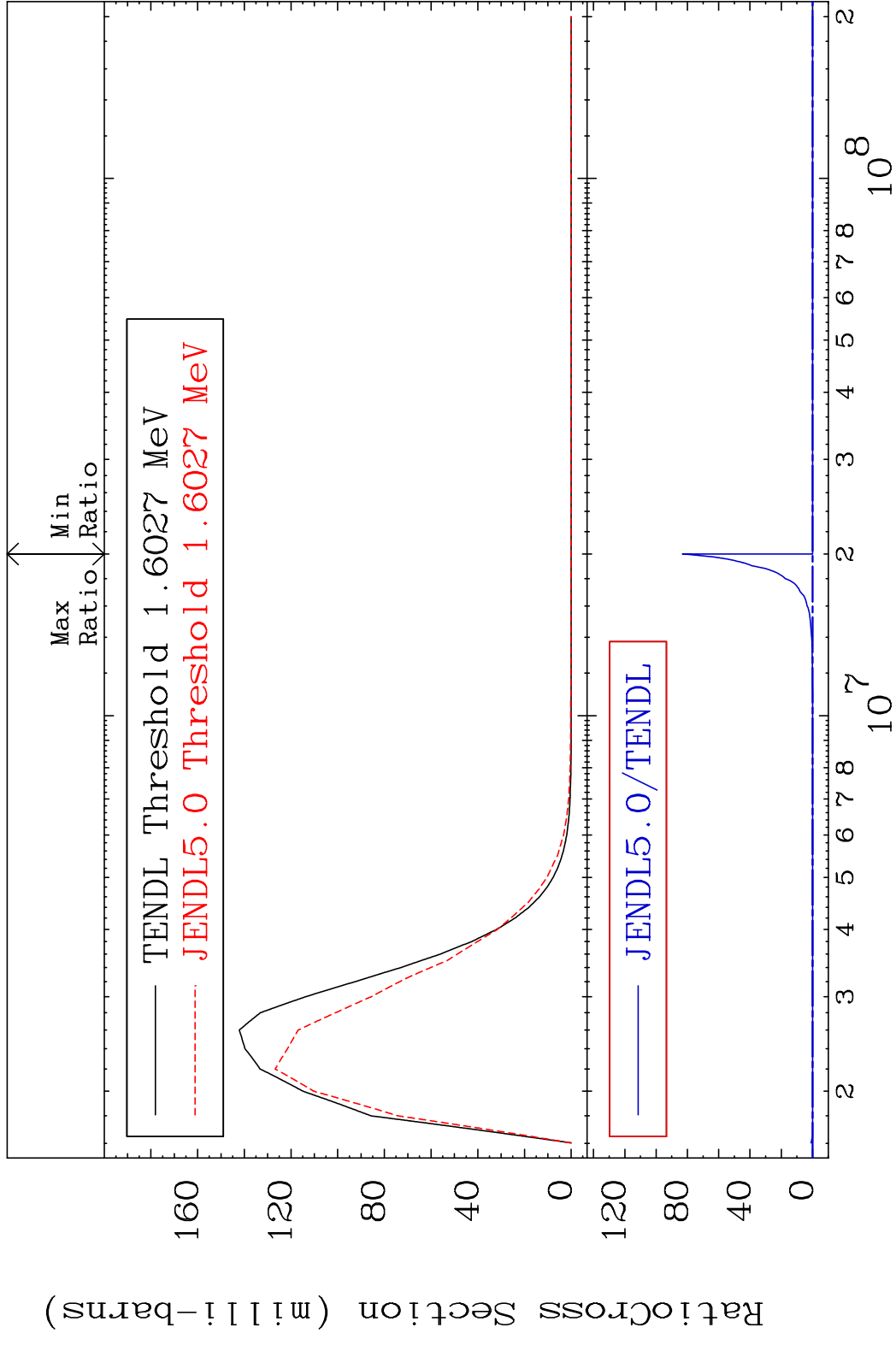
MAT 5443 MT= 52 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 55.95 %



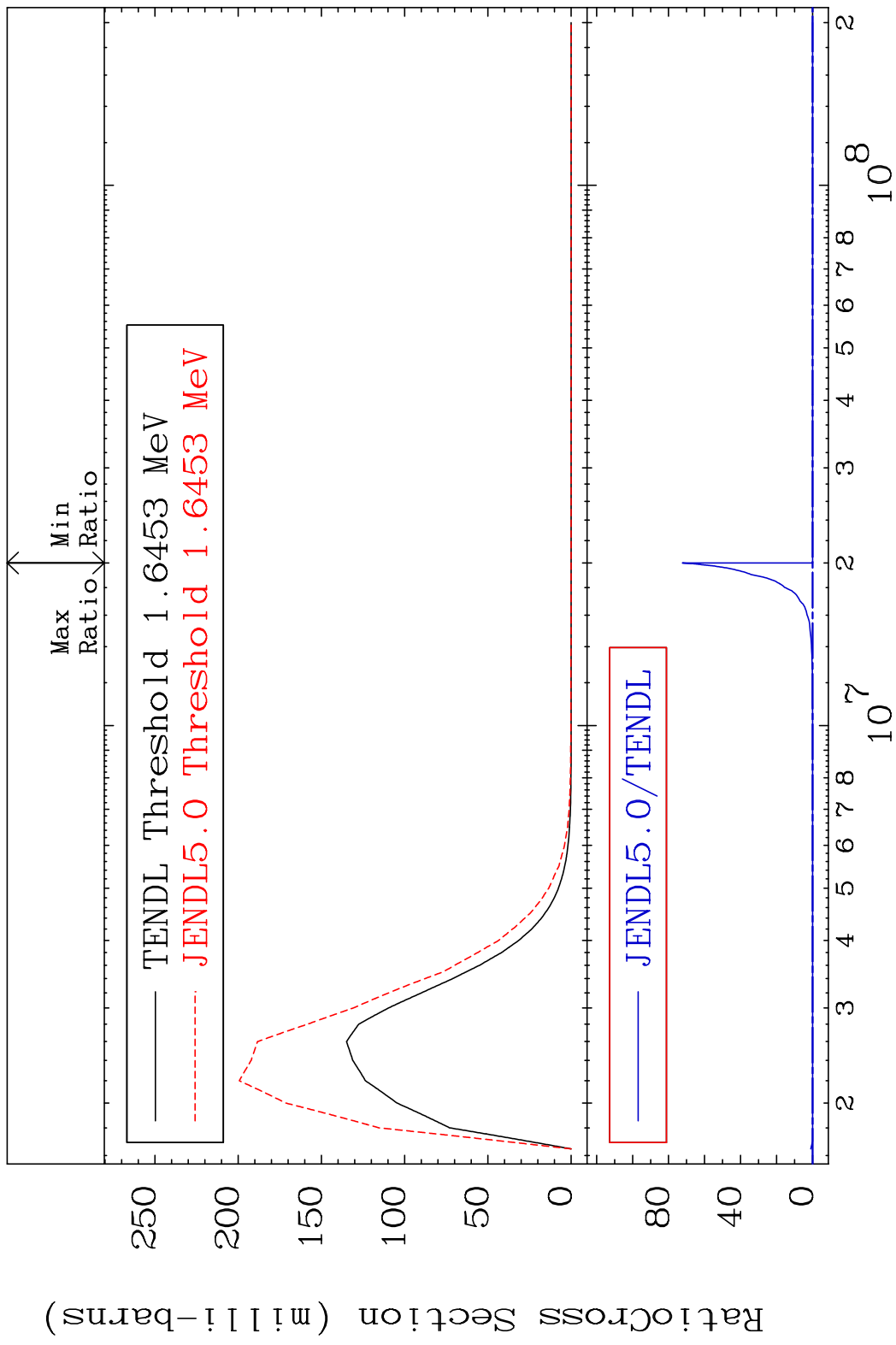
MAT 5443 MT= 53 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 65.93 %



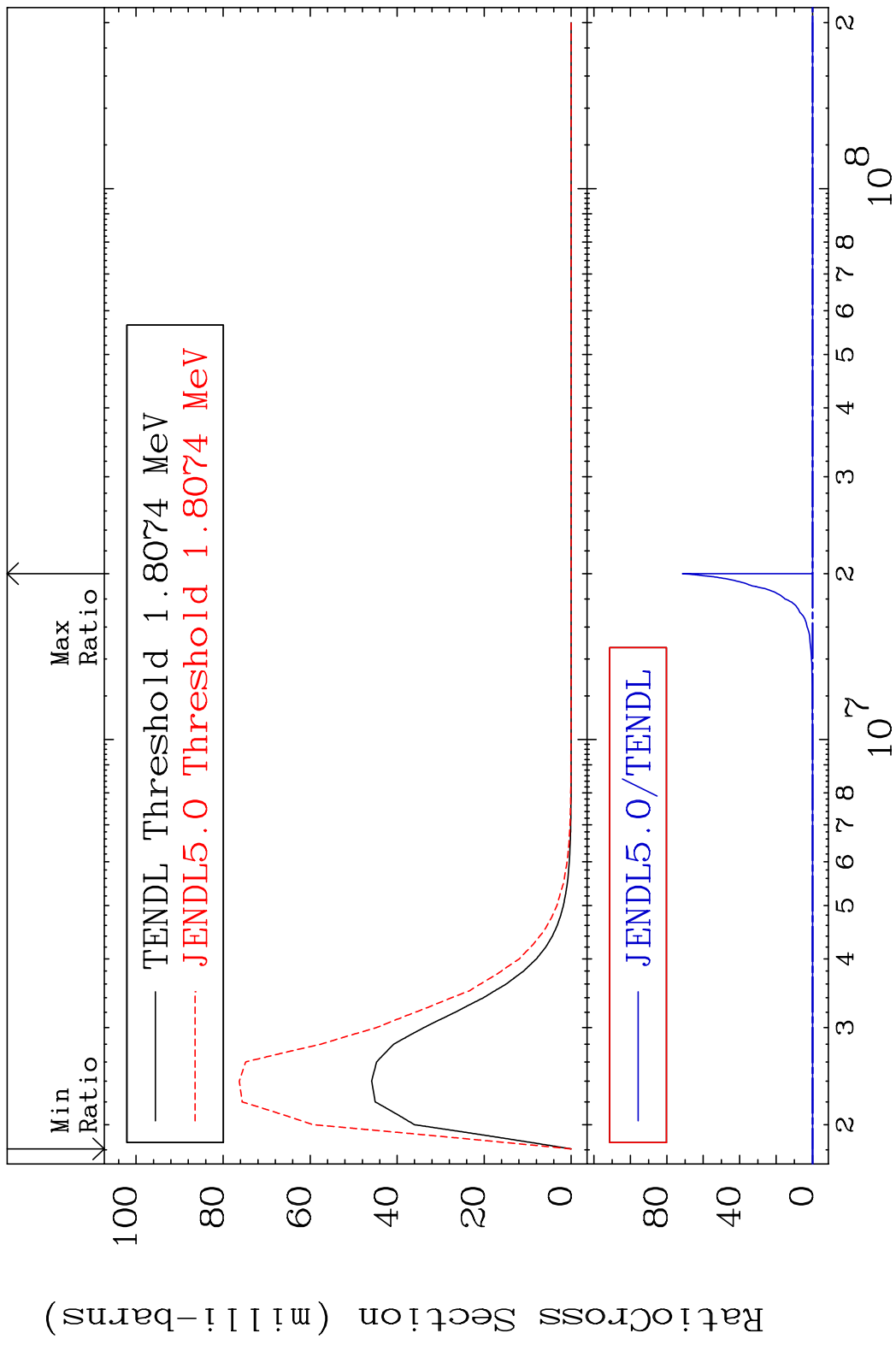
MAT 5443 MT= 54 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



MAT 5443 MT= 55 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



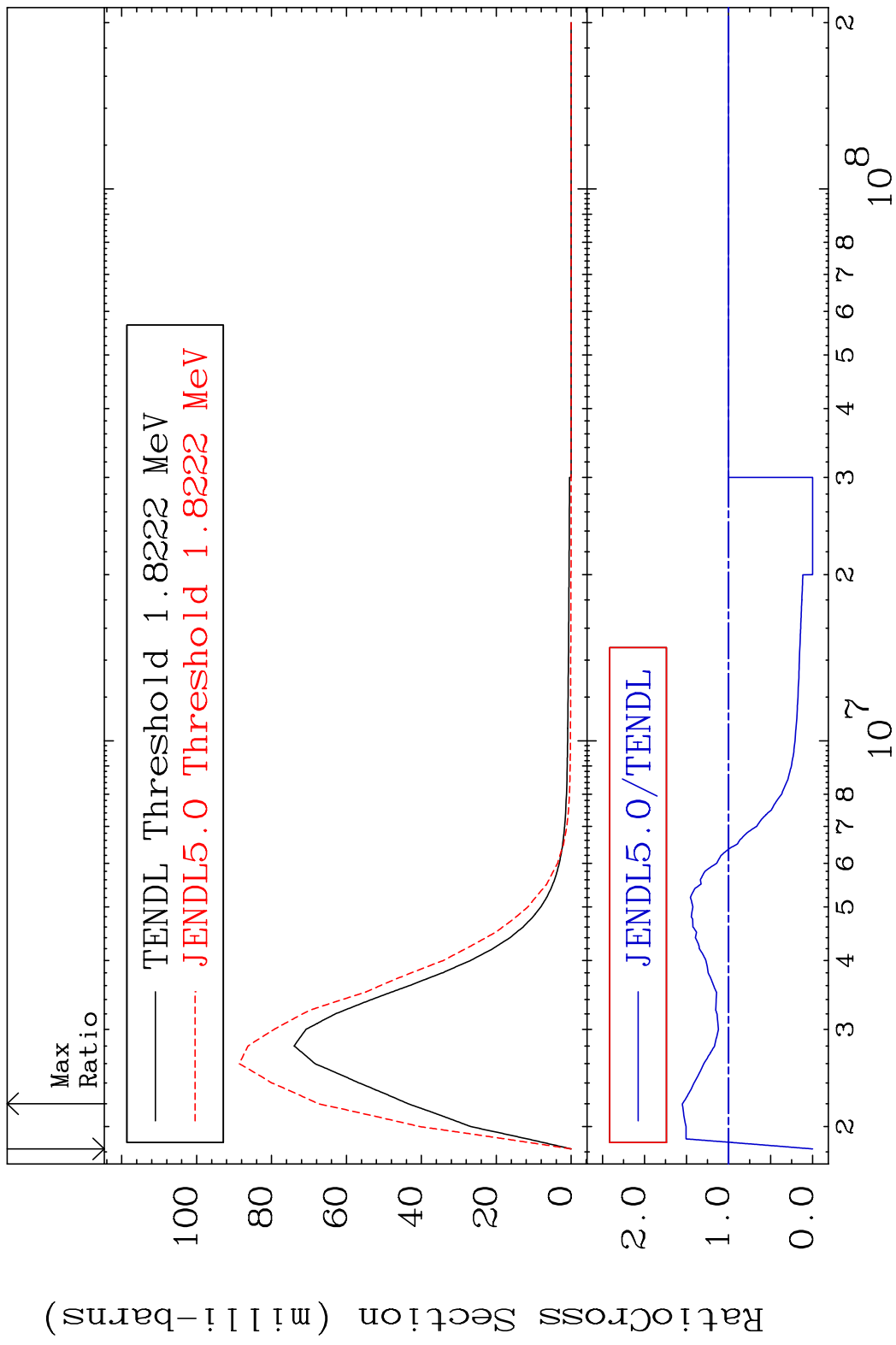
MAT 5443 MT= 56 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



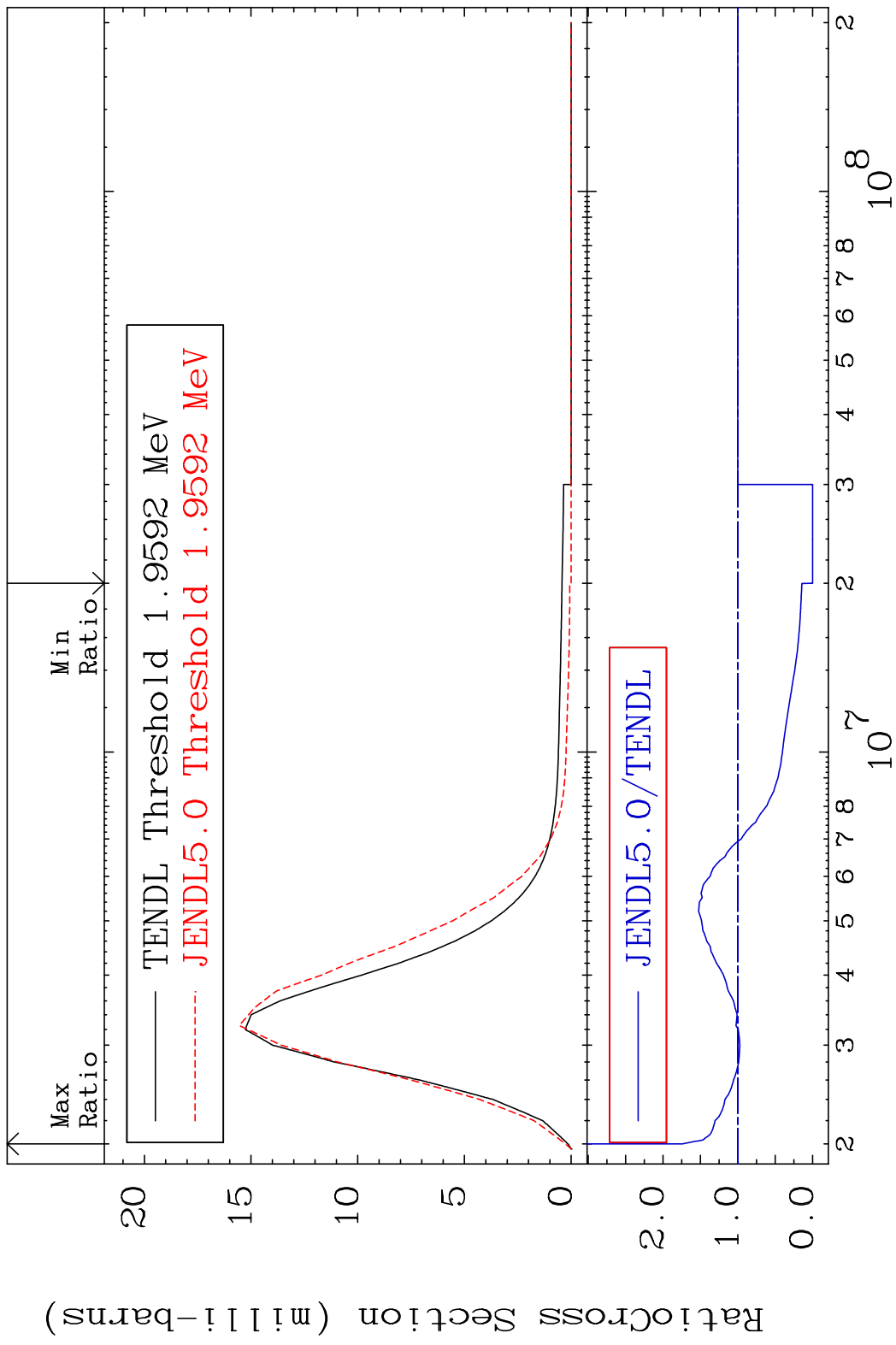
15 54-Xe-130



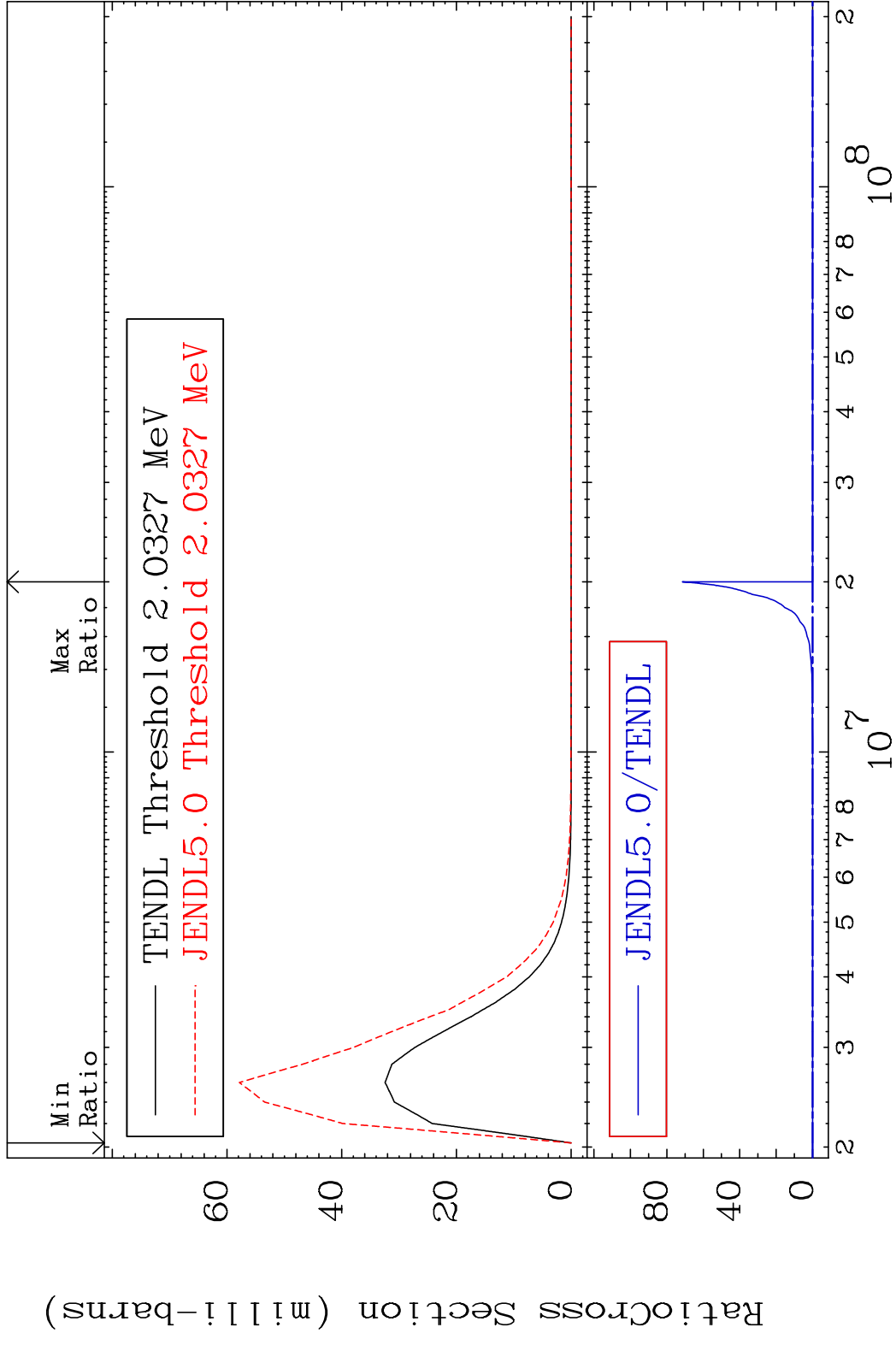
MAT 5443 MT= 57 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 55.03 %



MAT 5443 MT= 58 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 74.15 %

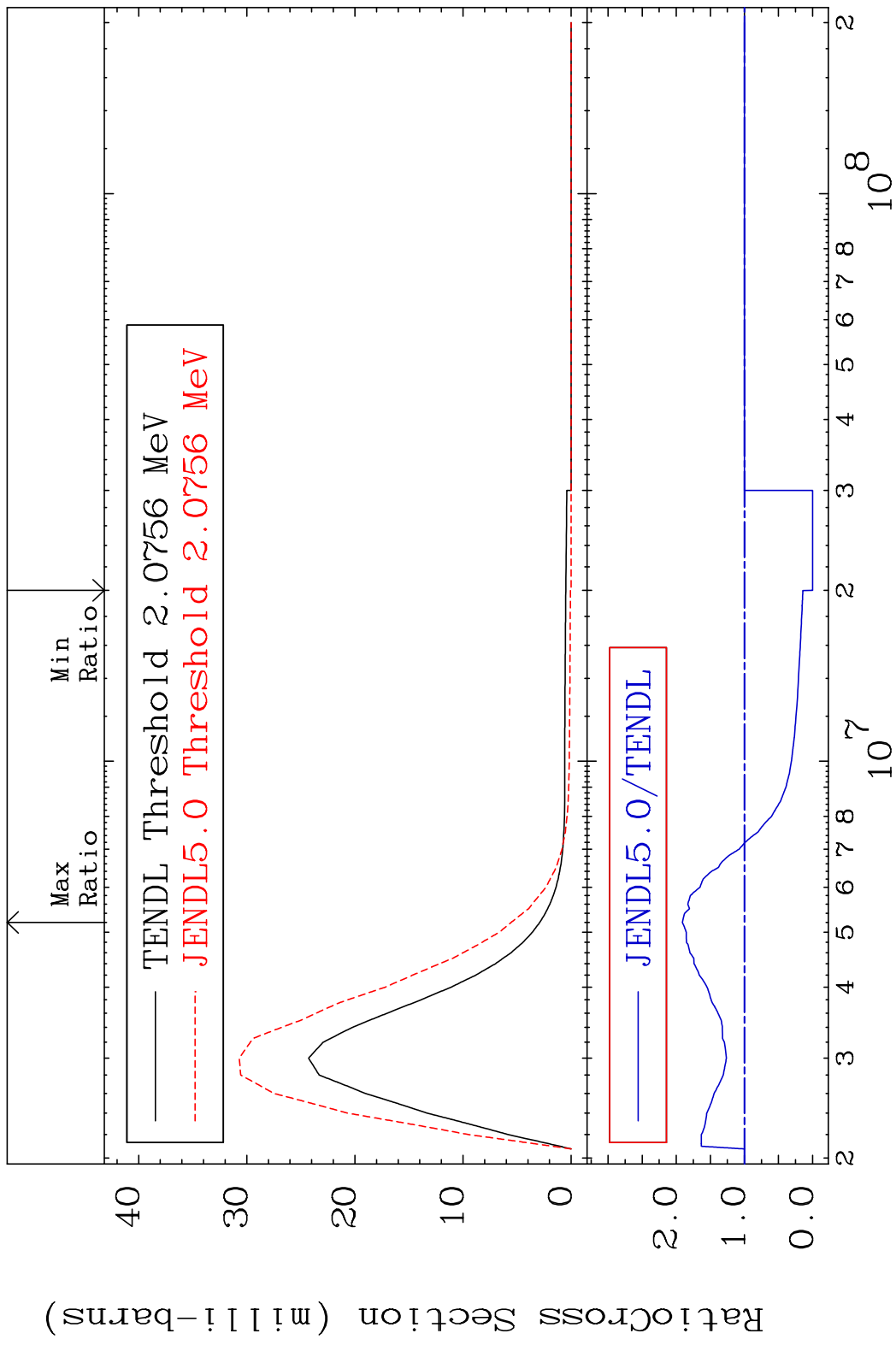


MAT 5443 MT= 59 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %

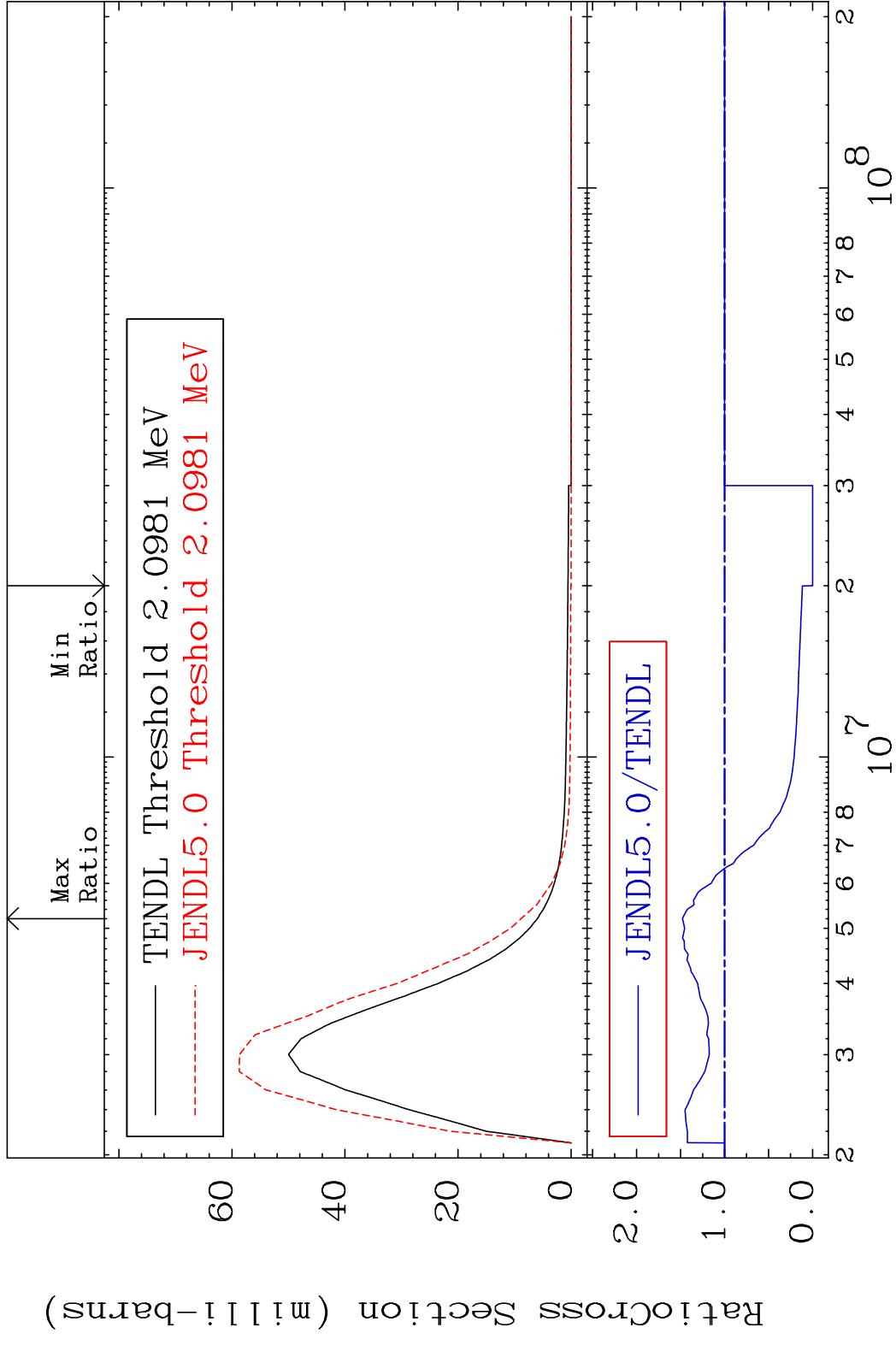


18 54-Xe-130

MAT 5443 MT= 60 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 91.04 %

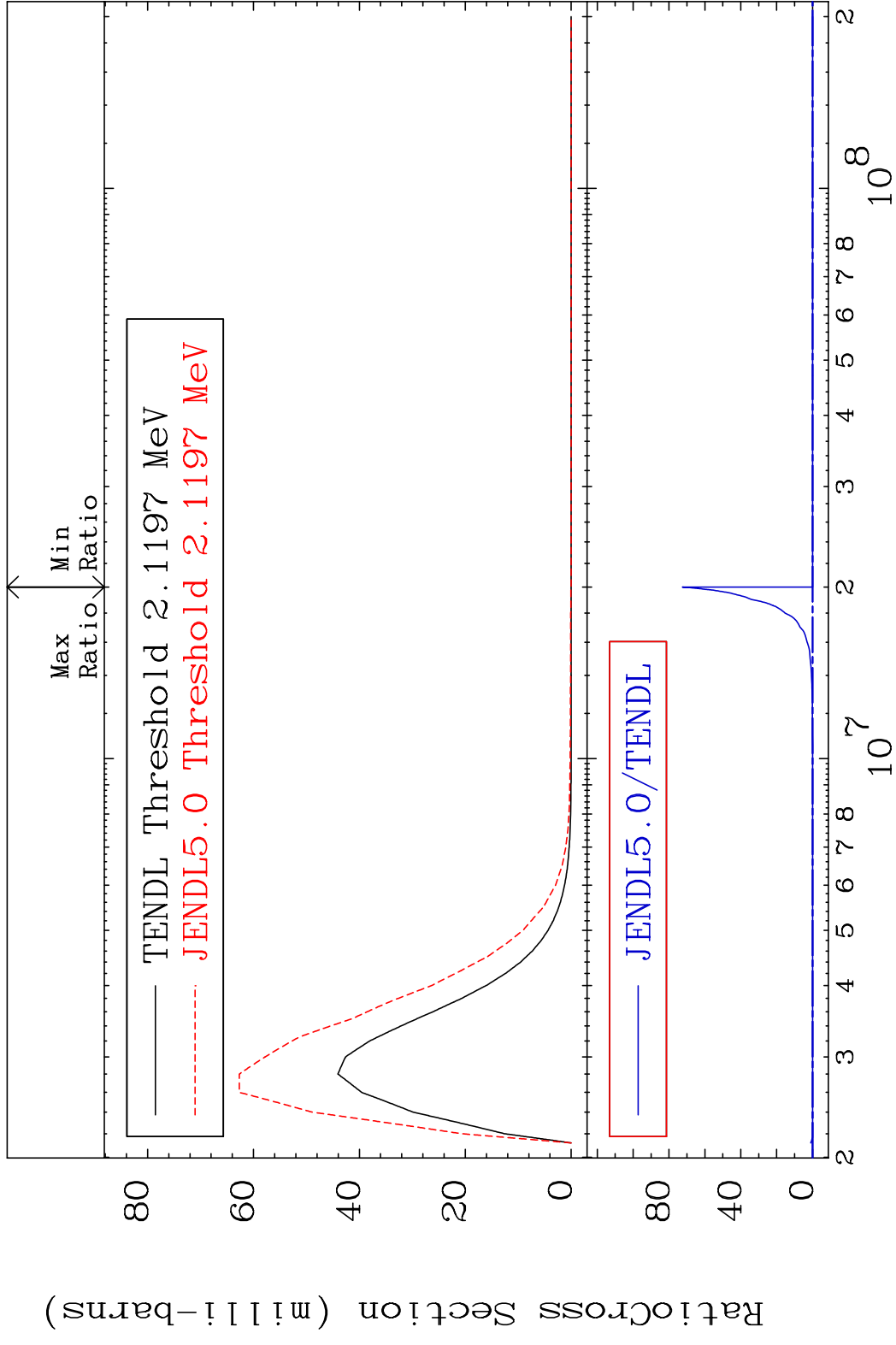


MAT 5443 MT= 61 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 48.01 %

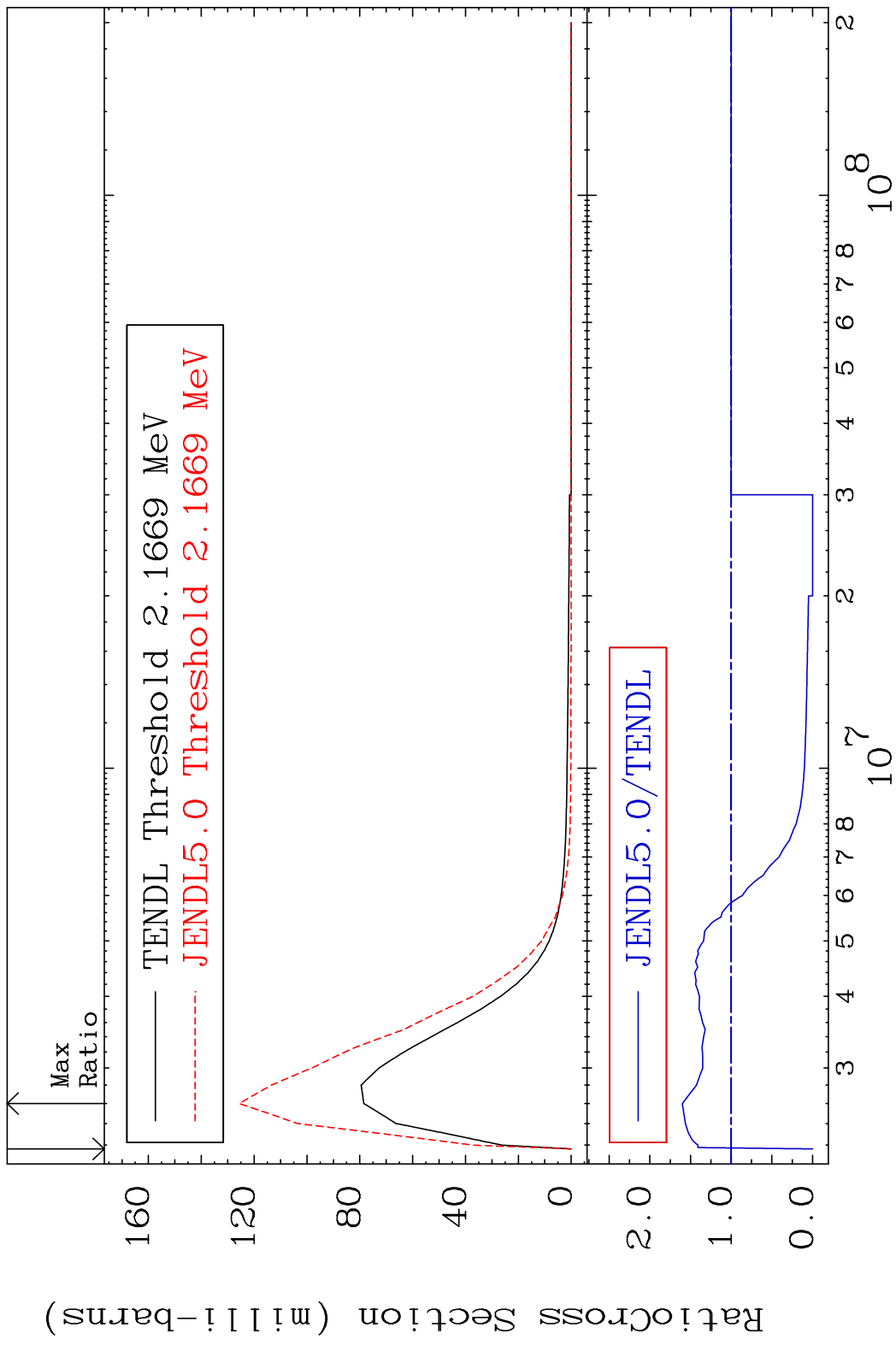


20 54-Xe-130

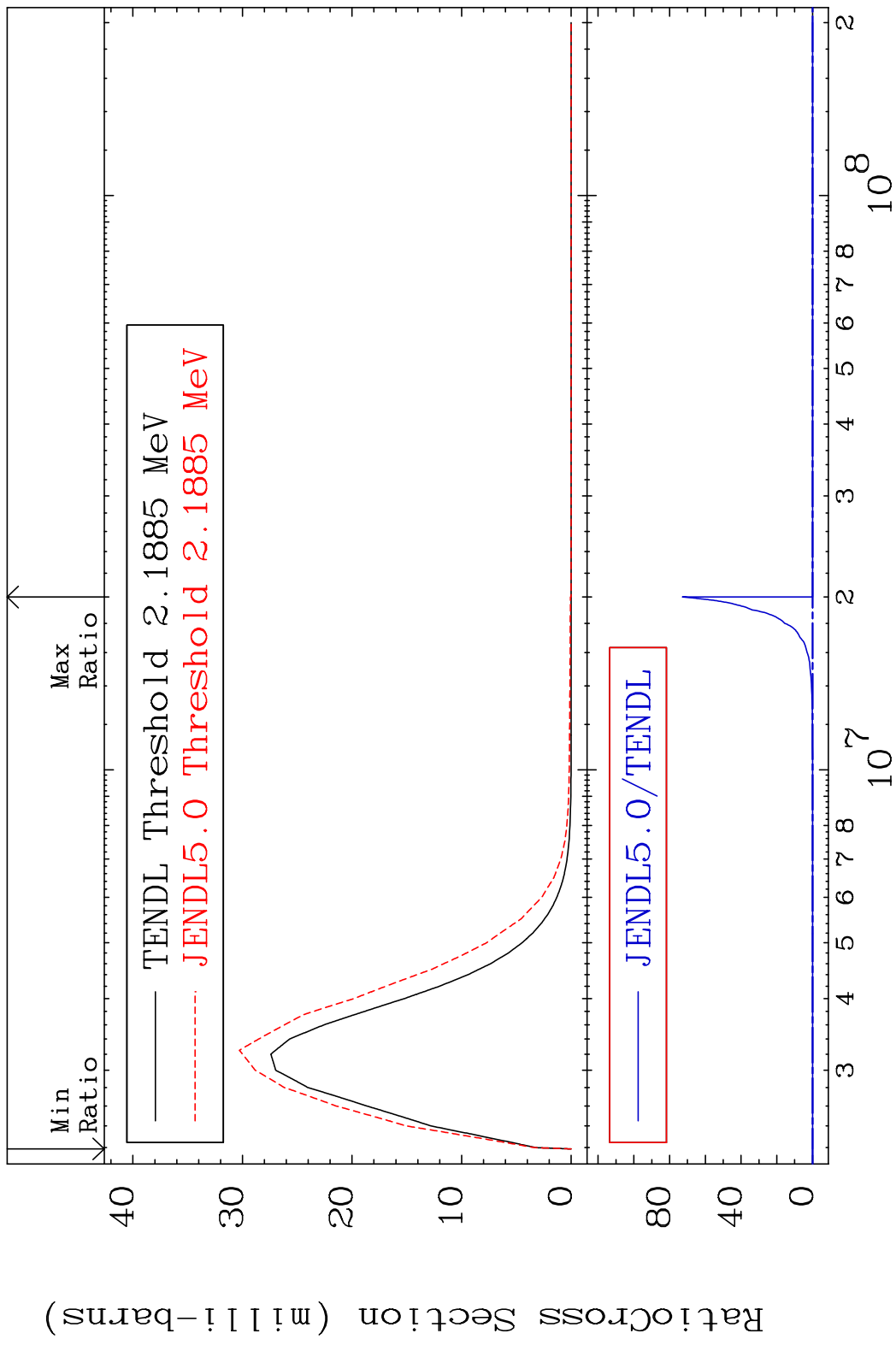
MAT 5443 MT= 62 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



MAT 5443 MT= 63 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 60.07 %

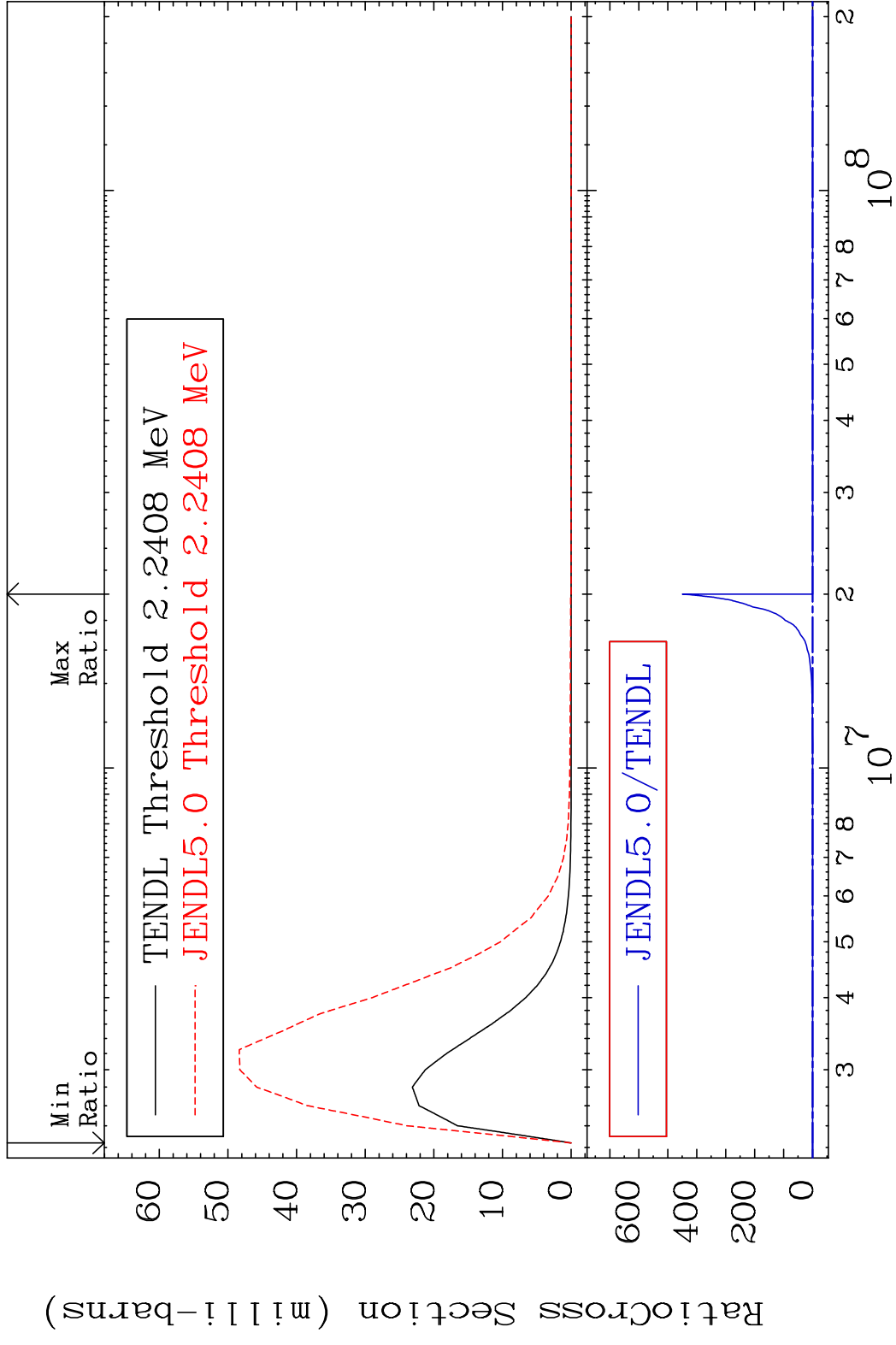


MAT 5443 MT= 64 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %

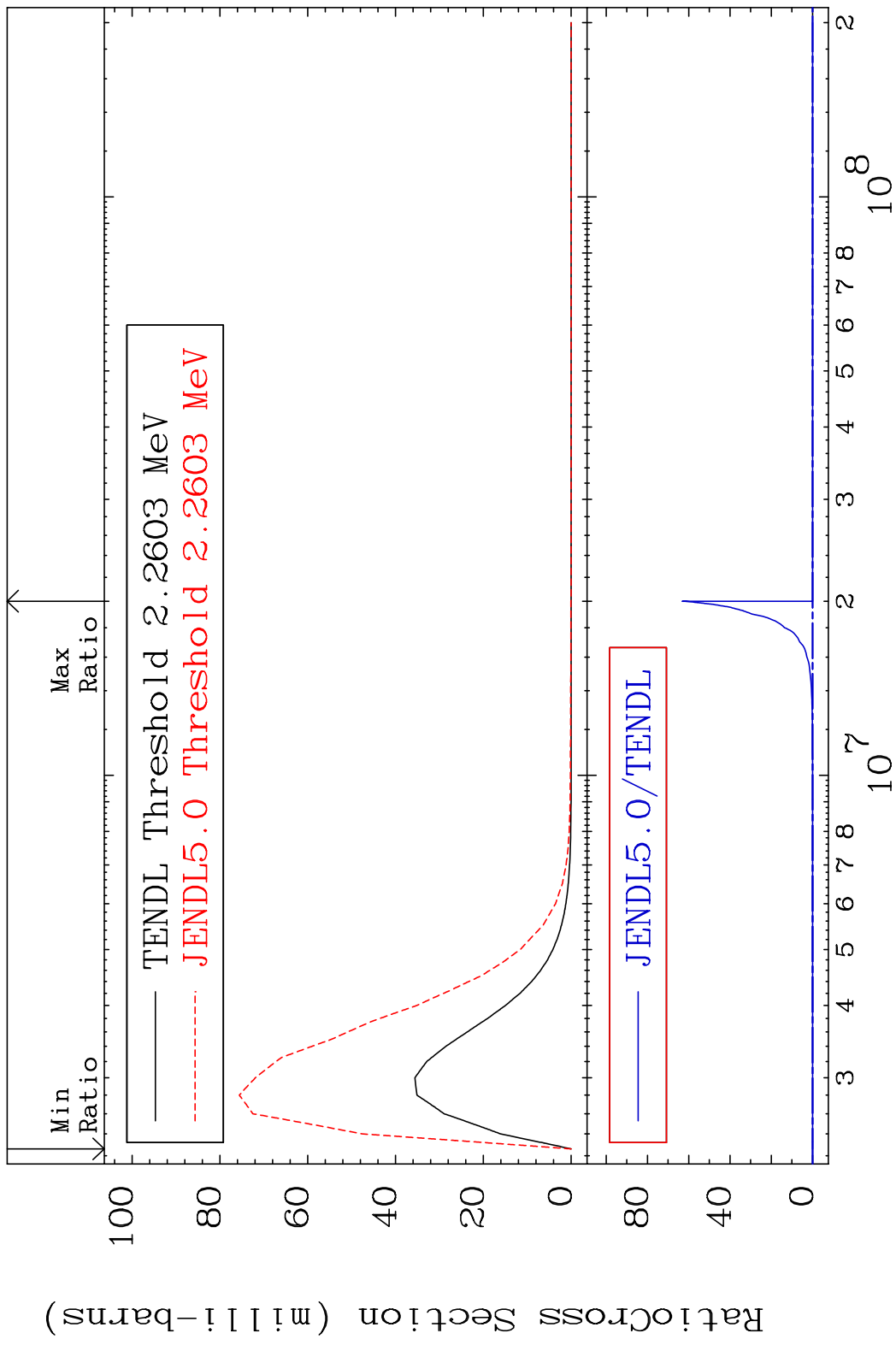




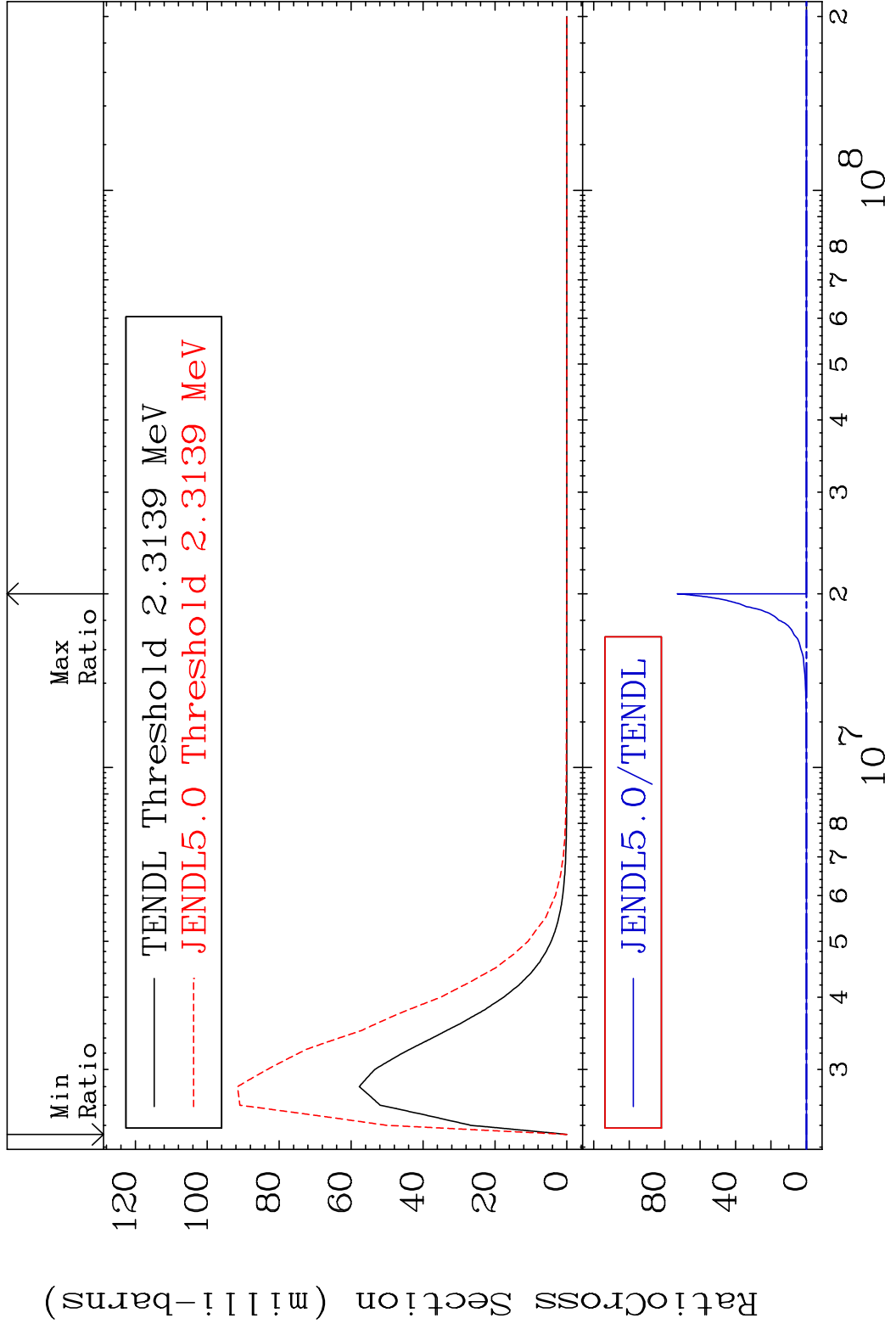
MAT 5443 MT= 65 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



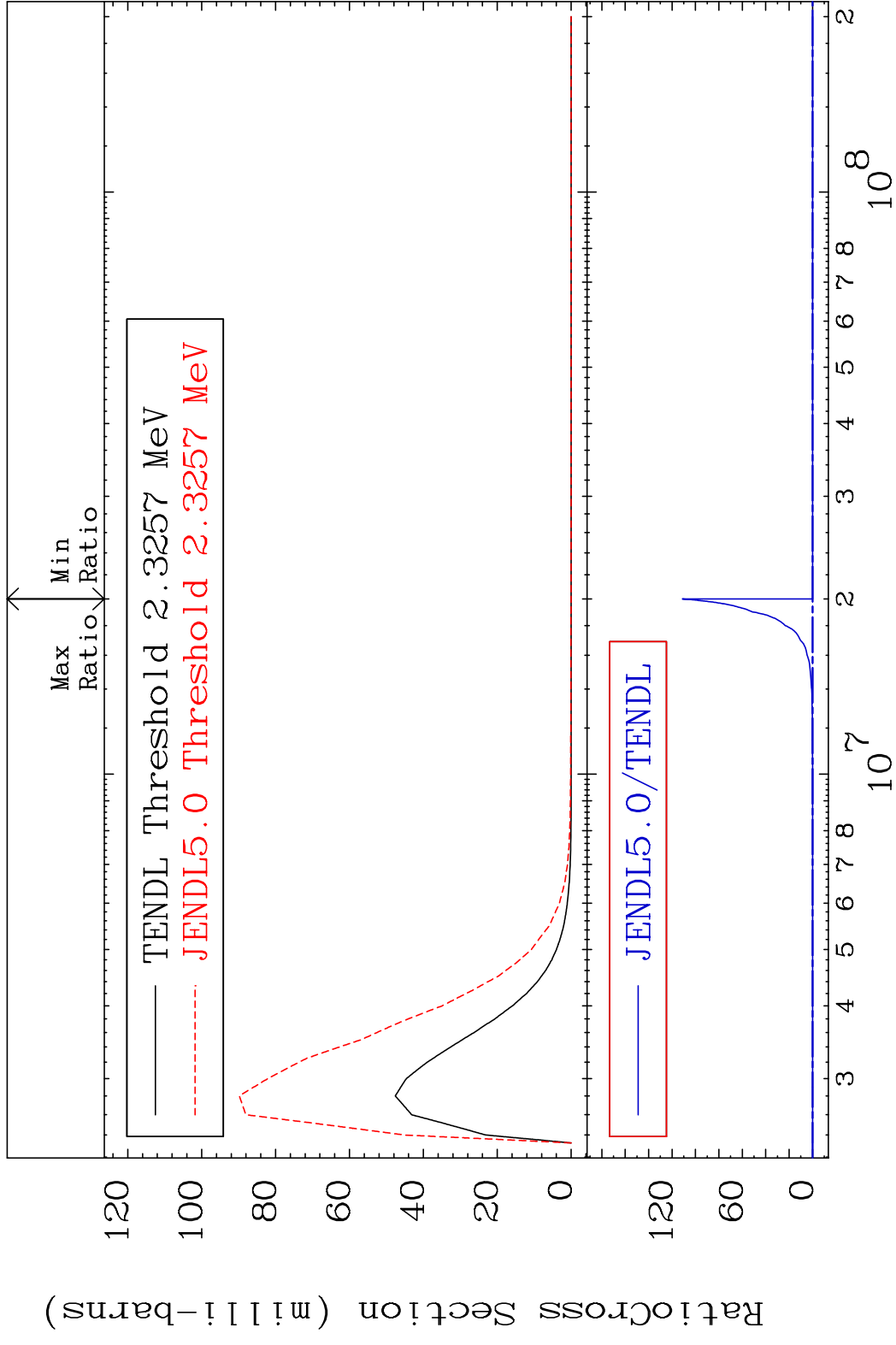
MAT 5443 MT= 66 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



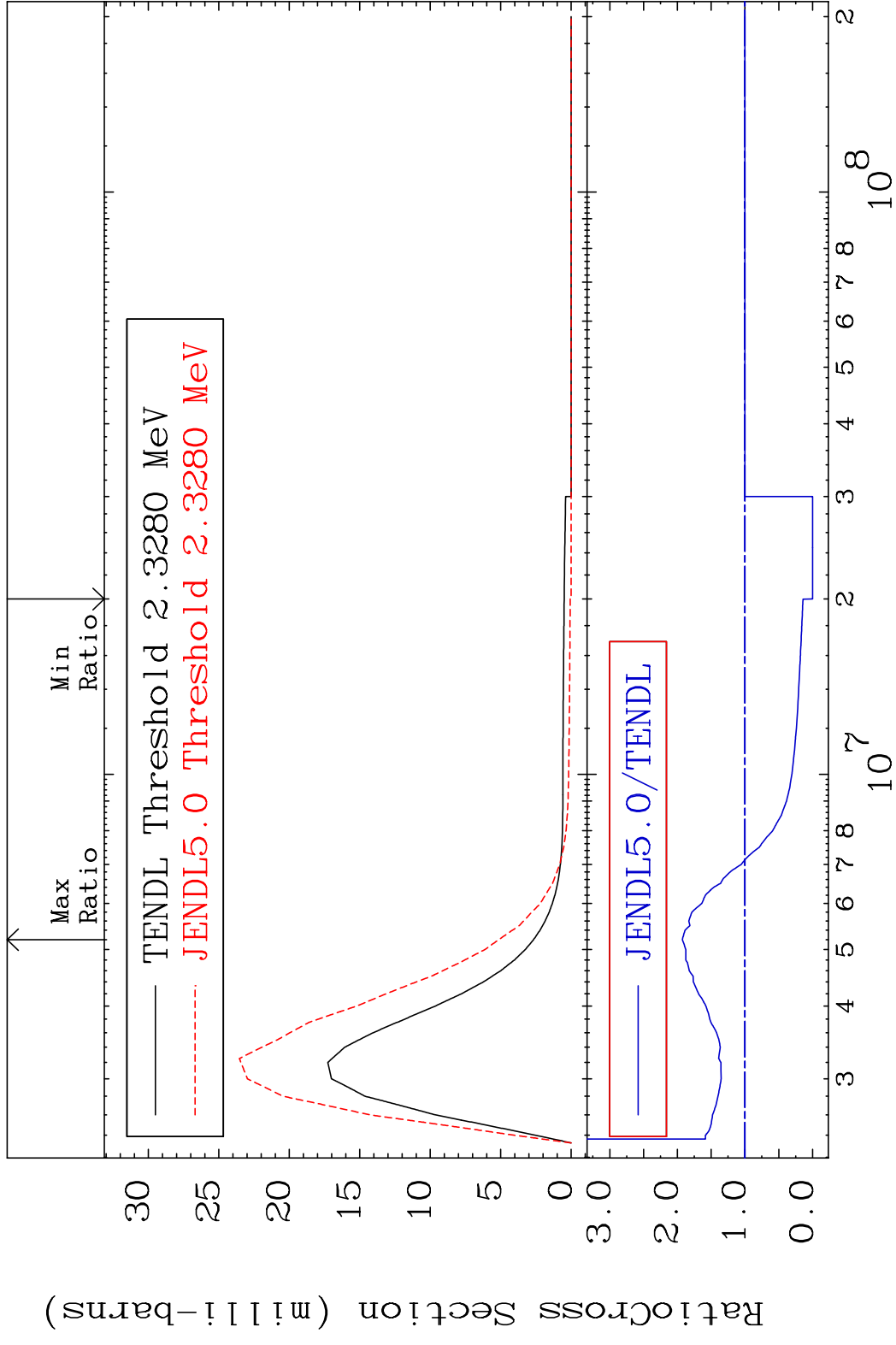
MAT 5443 MT= 67 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



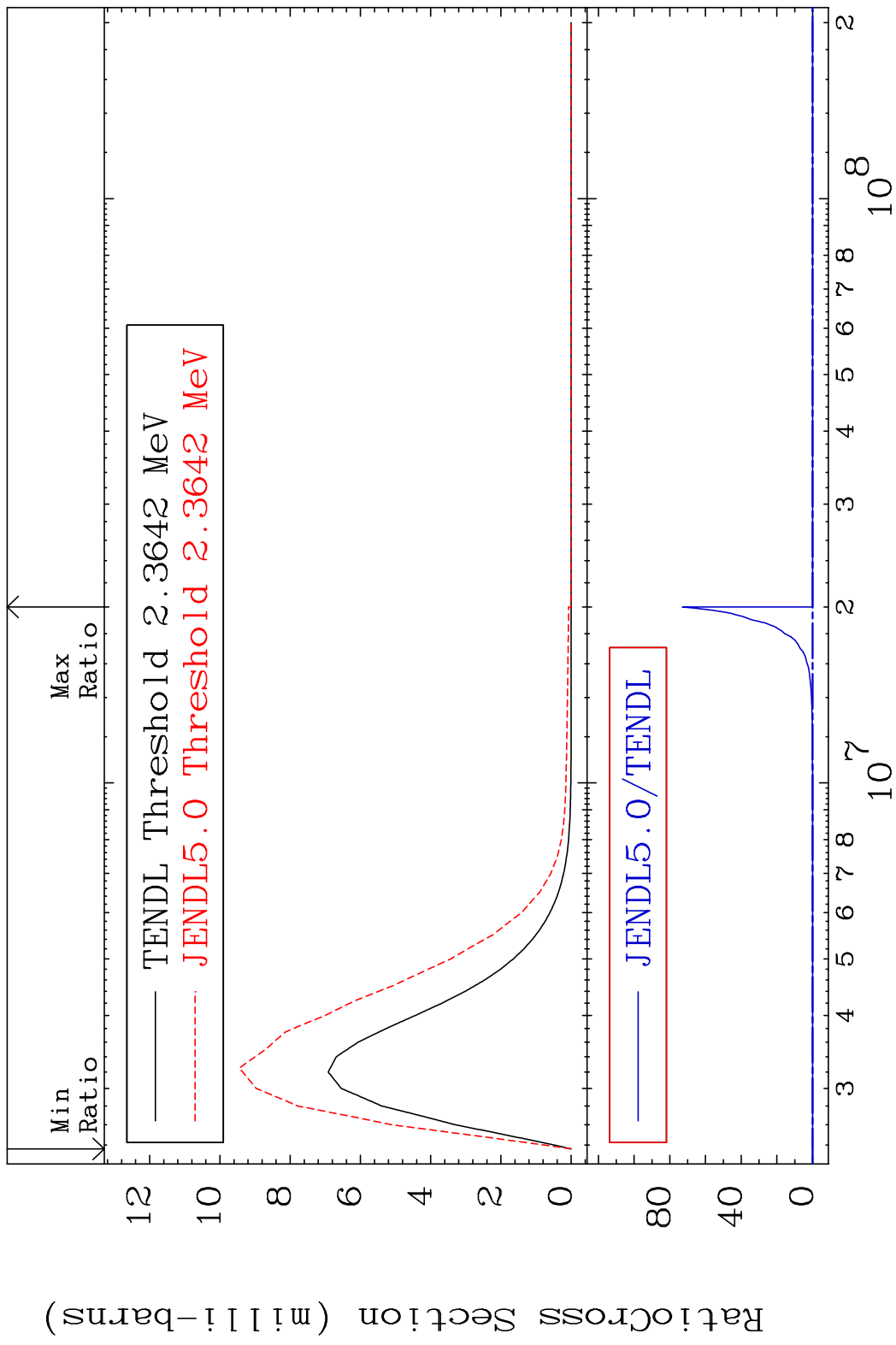
MAT 5443 MT= 68 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



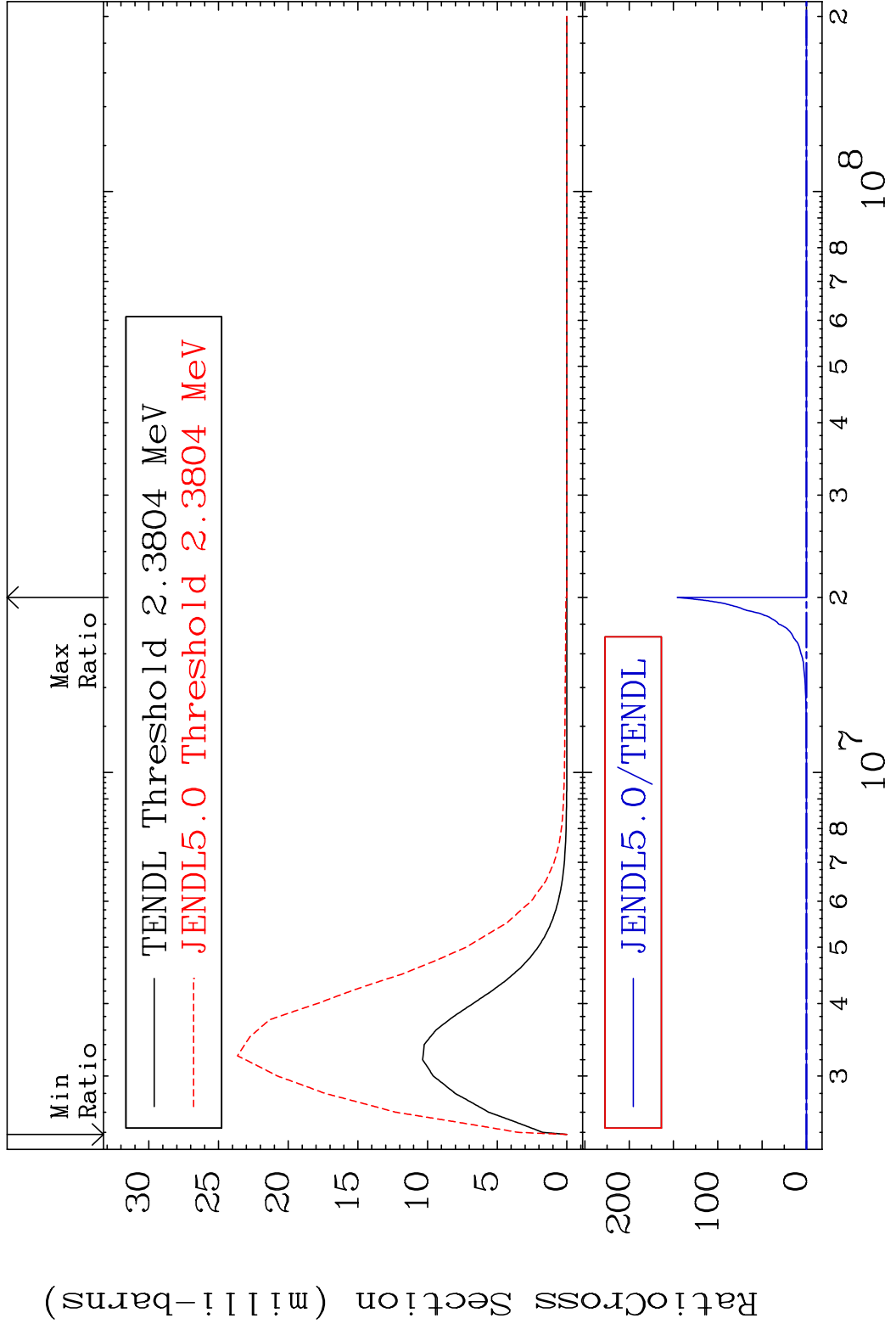
MAT 5443 MT= 69 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 92.62 %



MAT 5443 MT= 70 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %

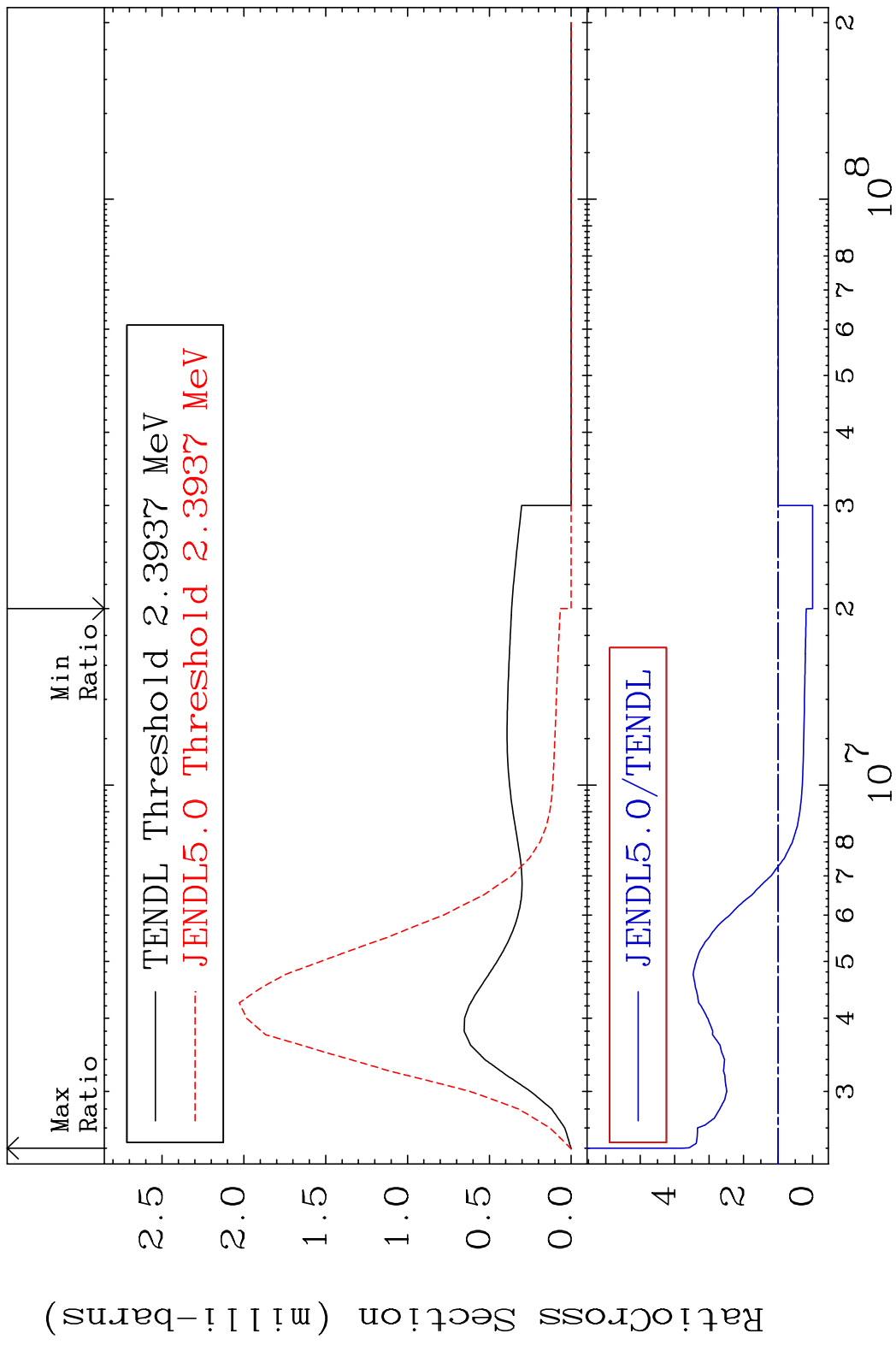


MAT 5443 MT= 71 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



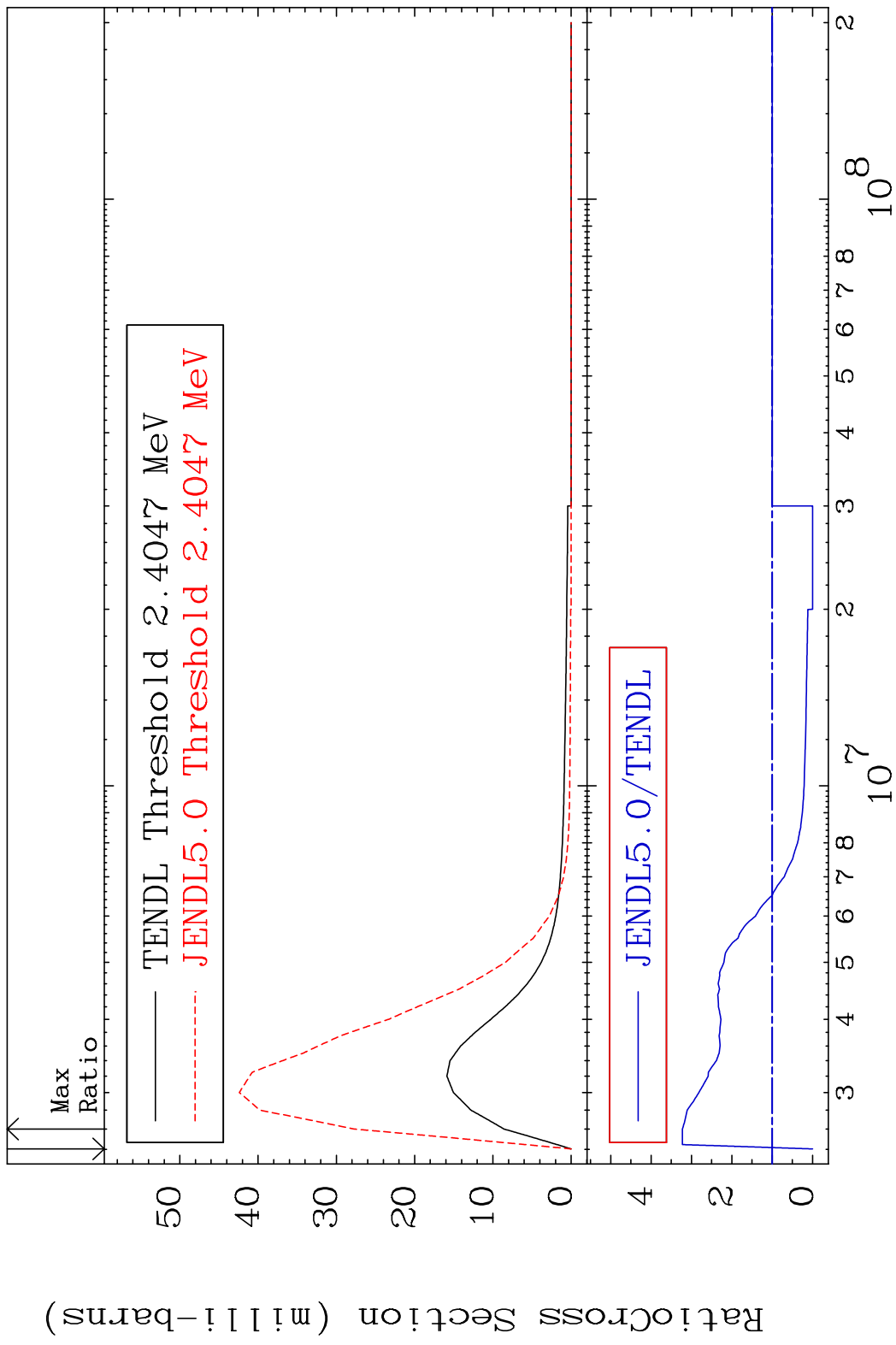
30 54-Xe-130

MAT 5443 MT= 72 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 277.7 %

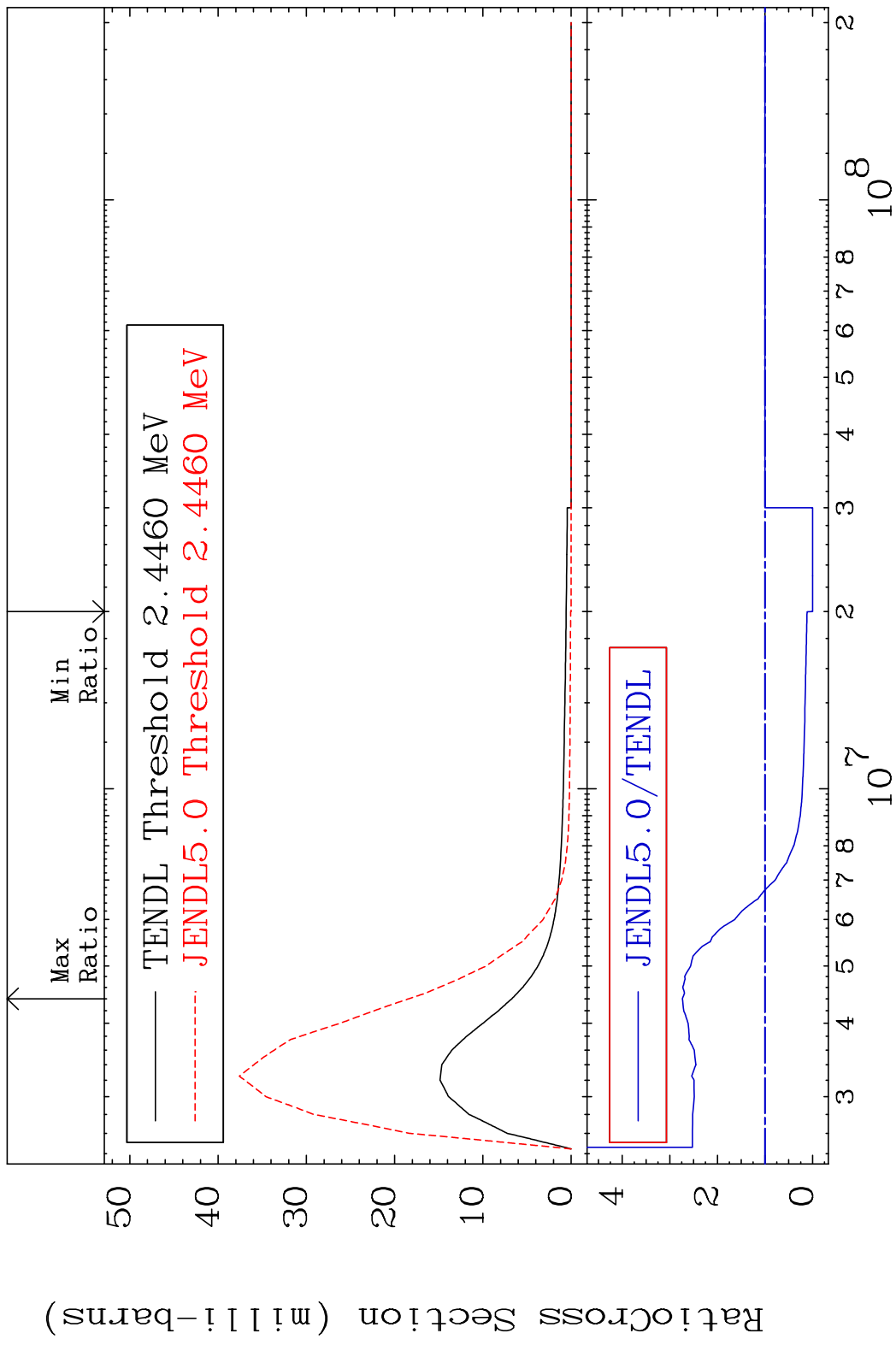




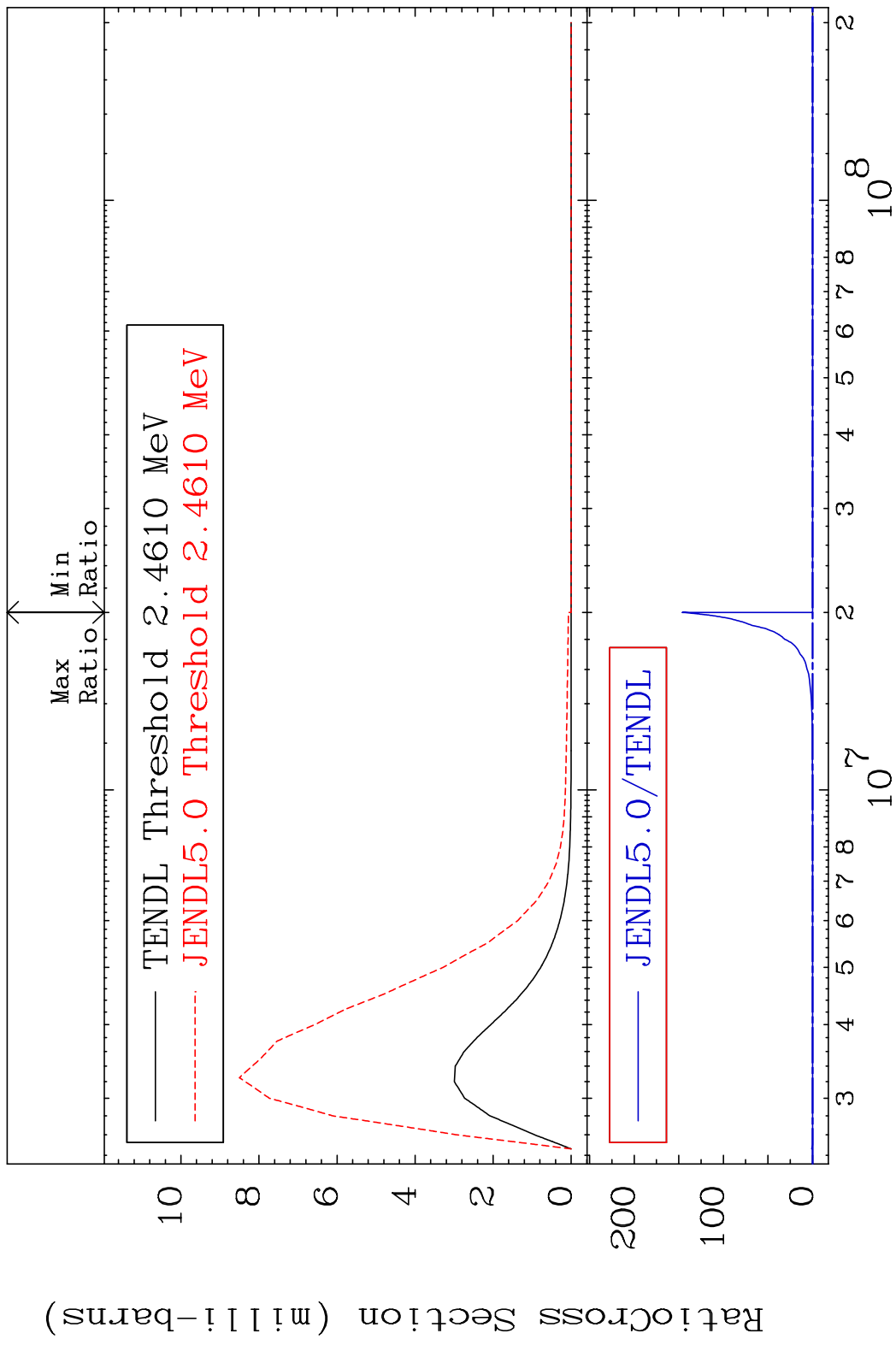
MAT 5443 MT= 73 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 222.5 %



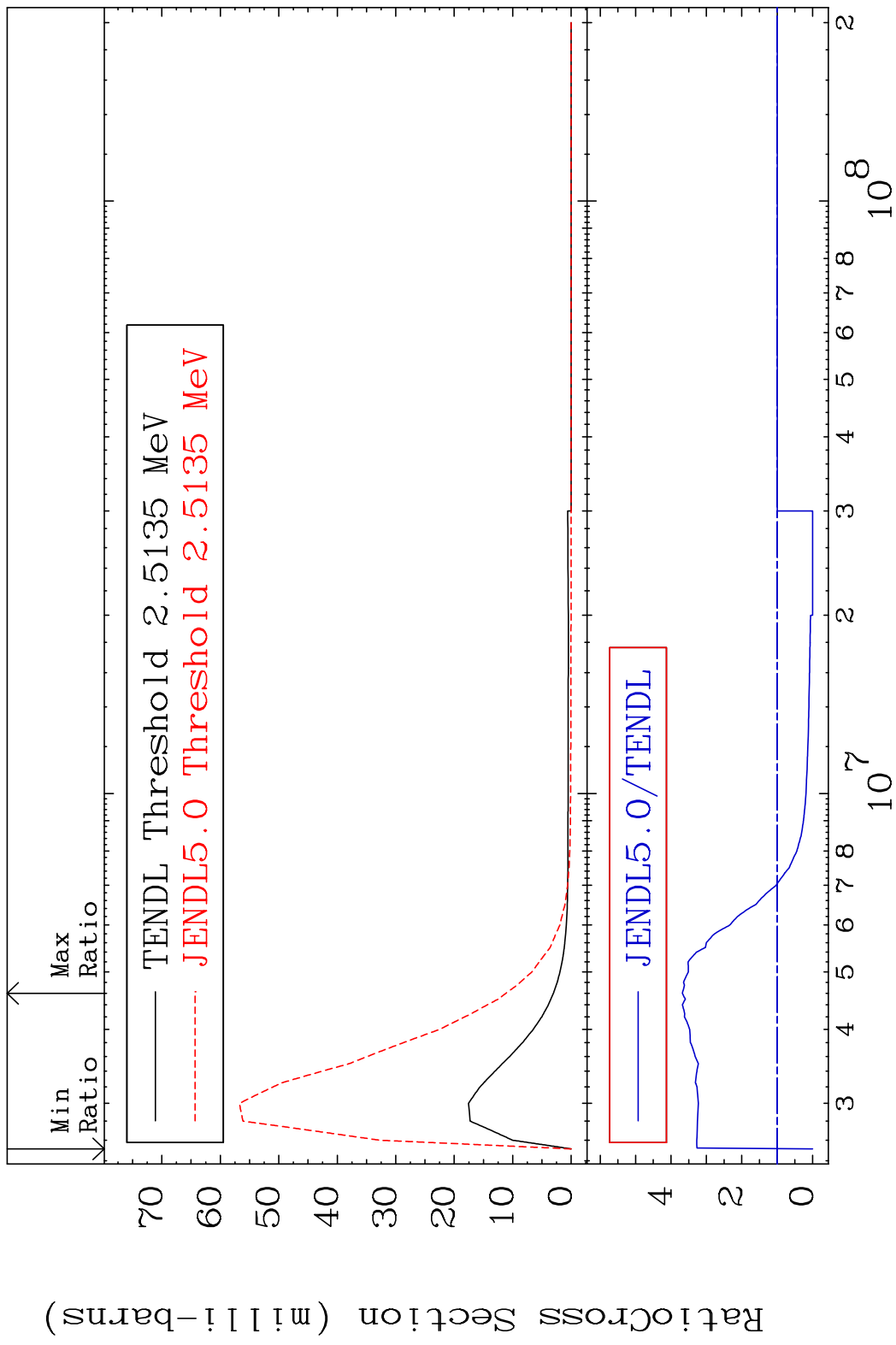
MAT 5443 MT= 74 (n,n') Level 54-Xe-130  
 Cross Section -100.0 To 173.7 %



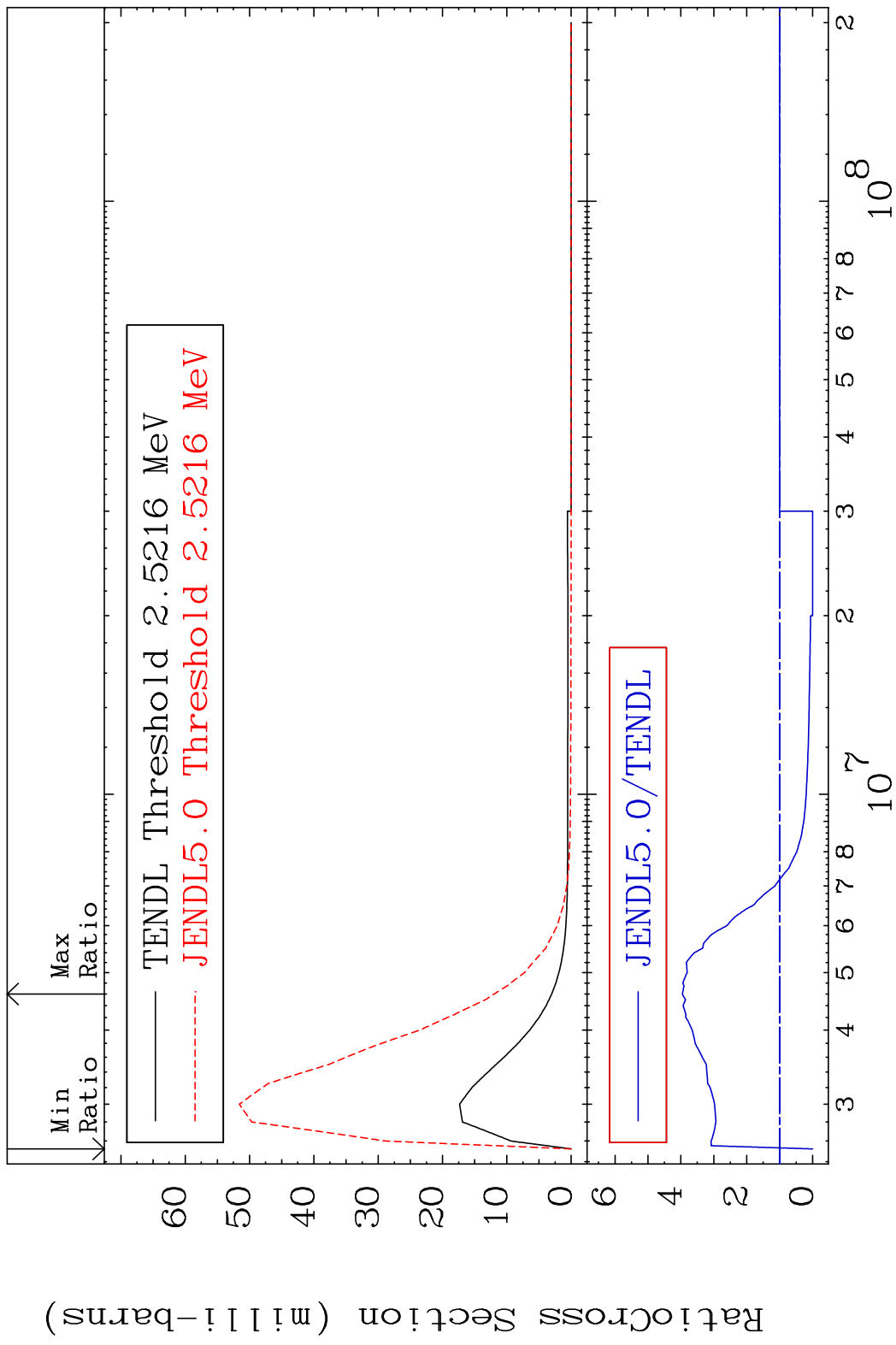
MAT 5443 MT= 75 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



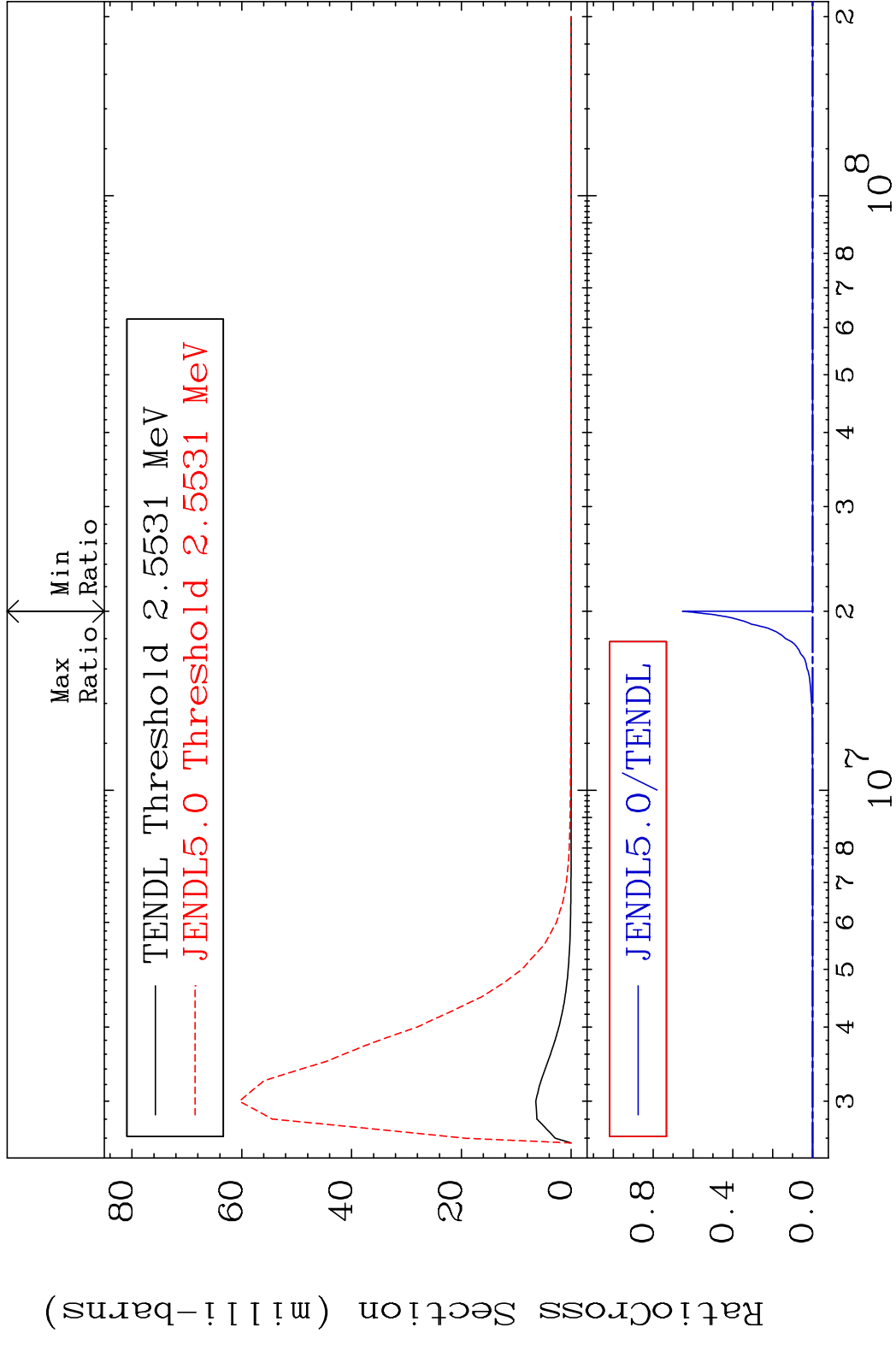
MAT 5443 MT= 76 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 267.9 %



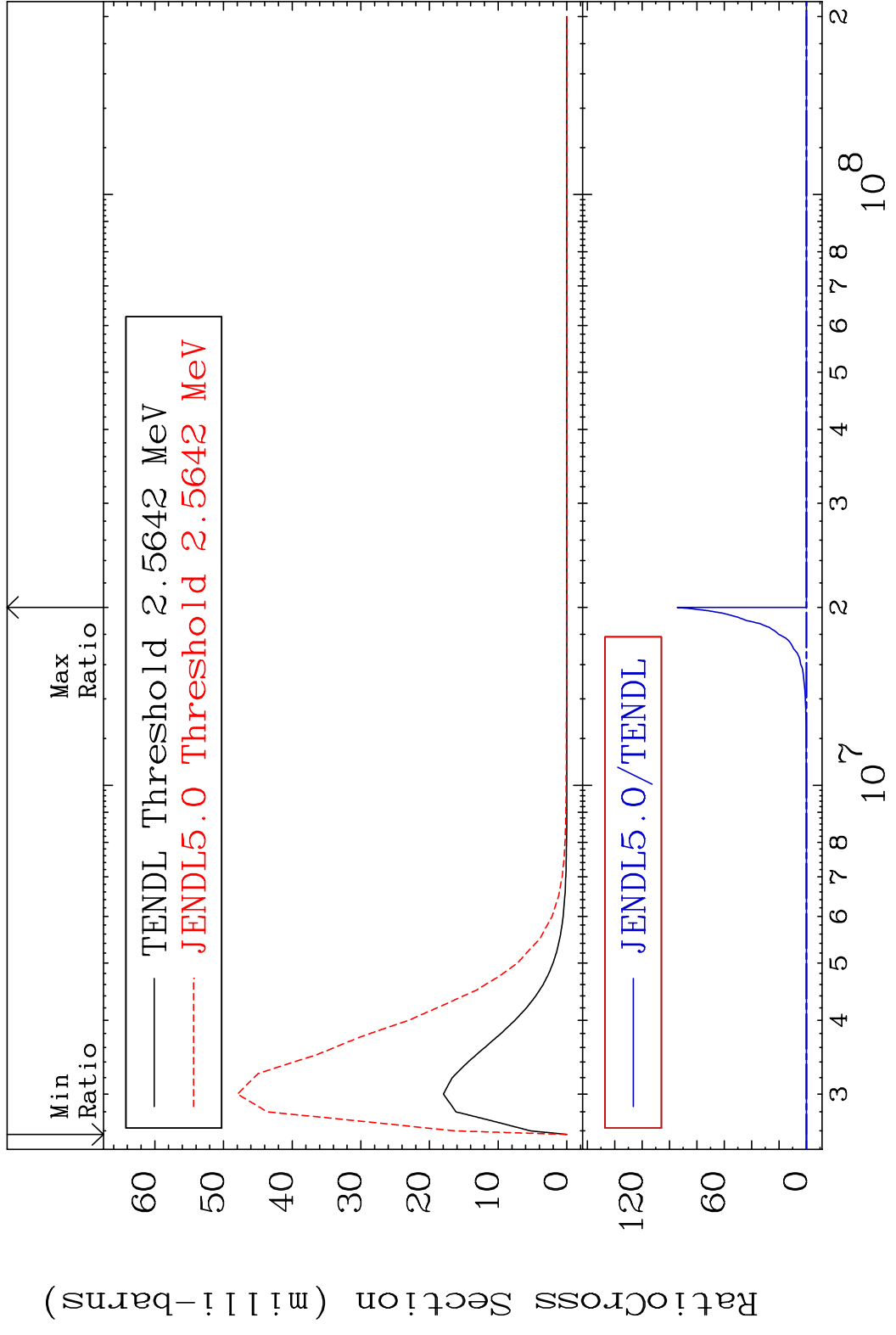
MAT 5443 MT= 77 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 295.5 %



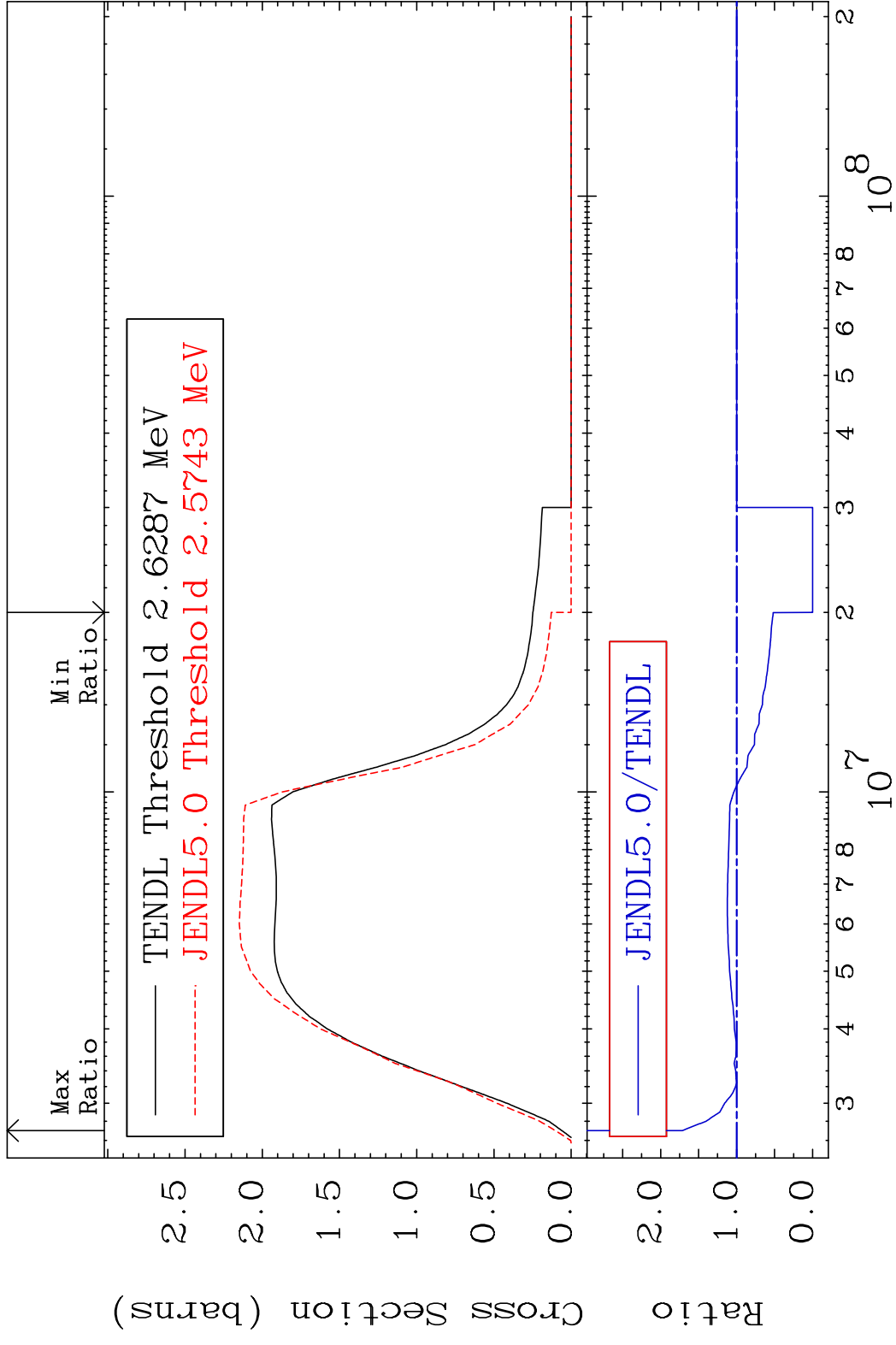
MAT 5443 MT= 78 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



MAT 5443 MT= 79 (n, n') Level 54-Xe-130  
 Cross Section -100.0 To 9999. %



MAT 5443 (n,n') Continuum 54-Xe-130  
 Cross Section -100.0 To 71.42 %



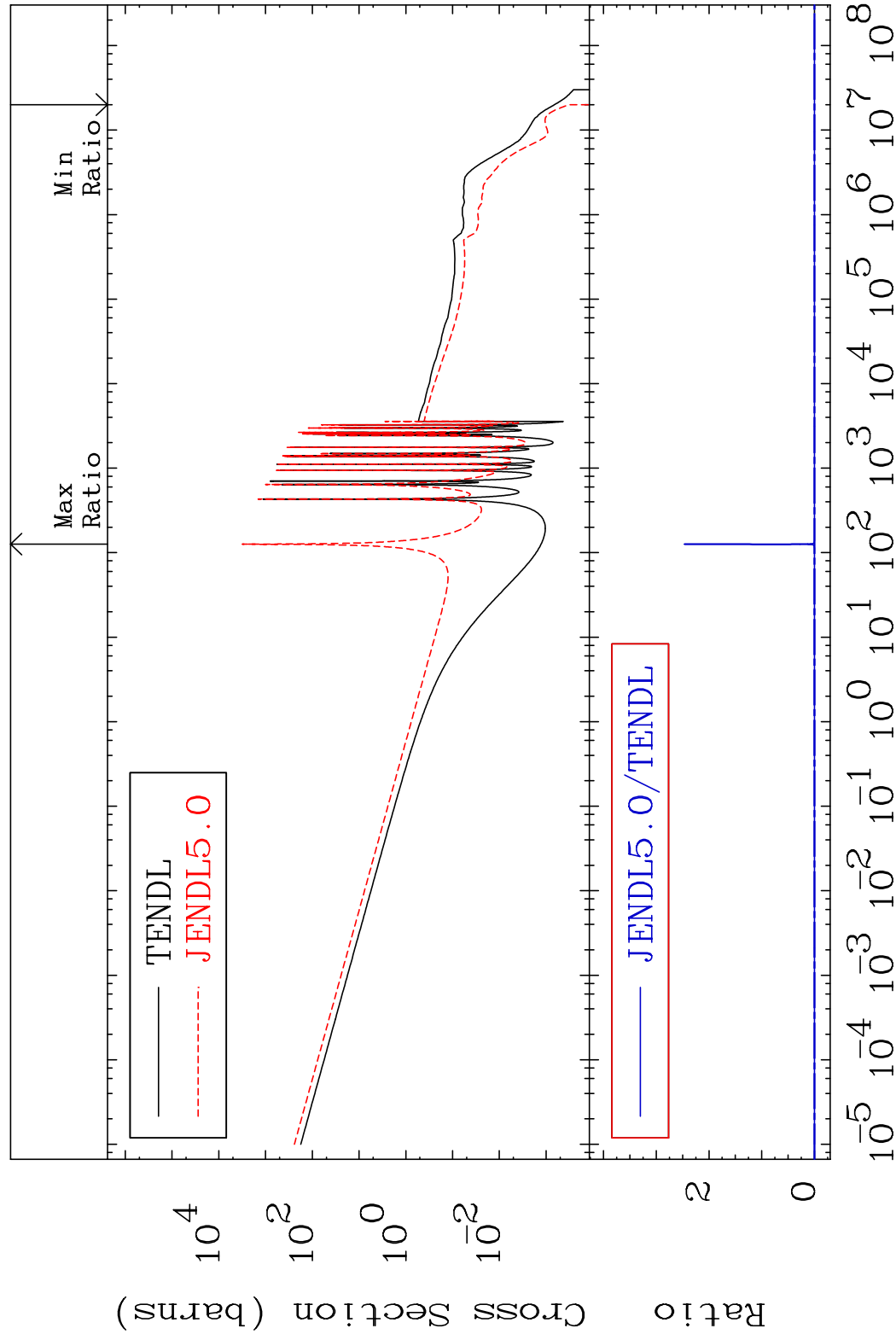


MAT 5443

(n,  $\gamma$ )

54-Xe-130

Cross Section -100.0 To 9999. %

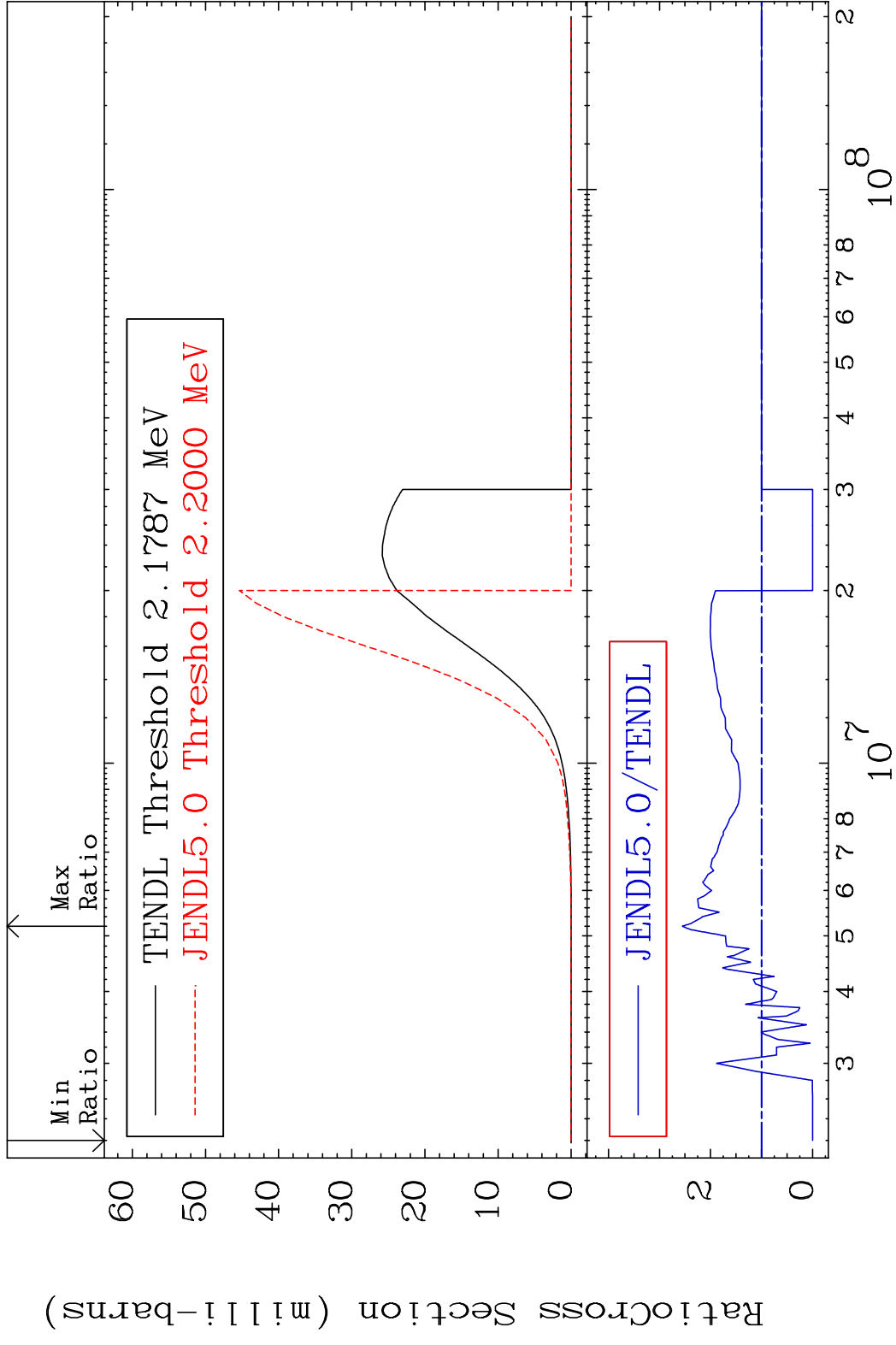


40

Incident Energy (eV)

54-Xe-130

MAT 5443 (n,p) 54-Xe-130  
 Cross Section -100.0 To 155.2 %

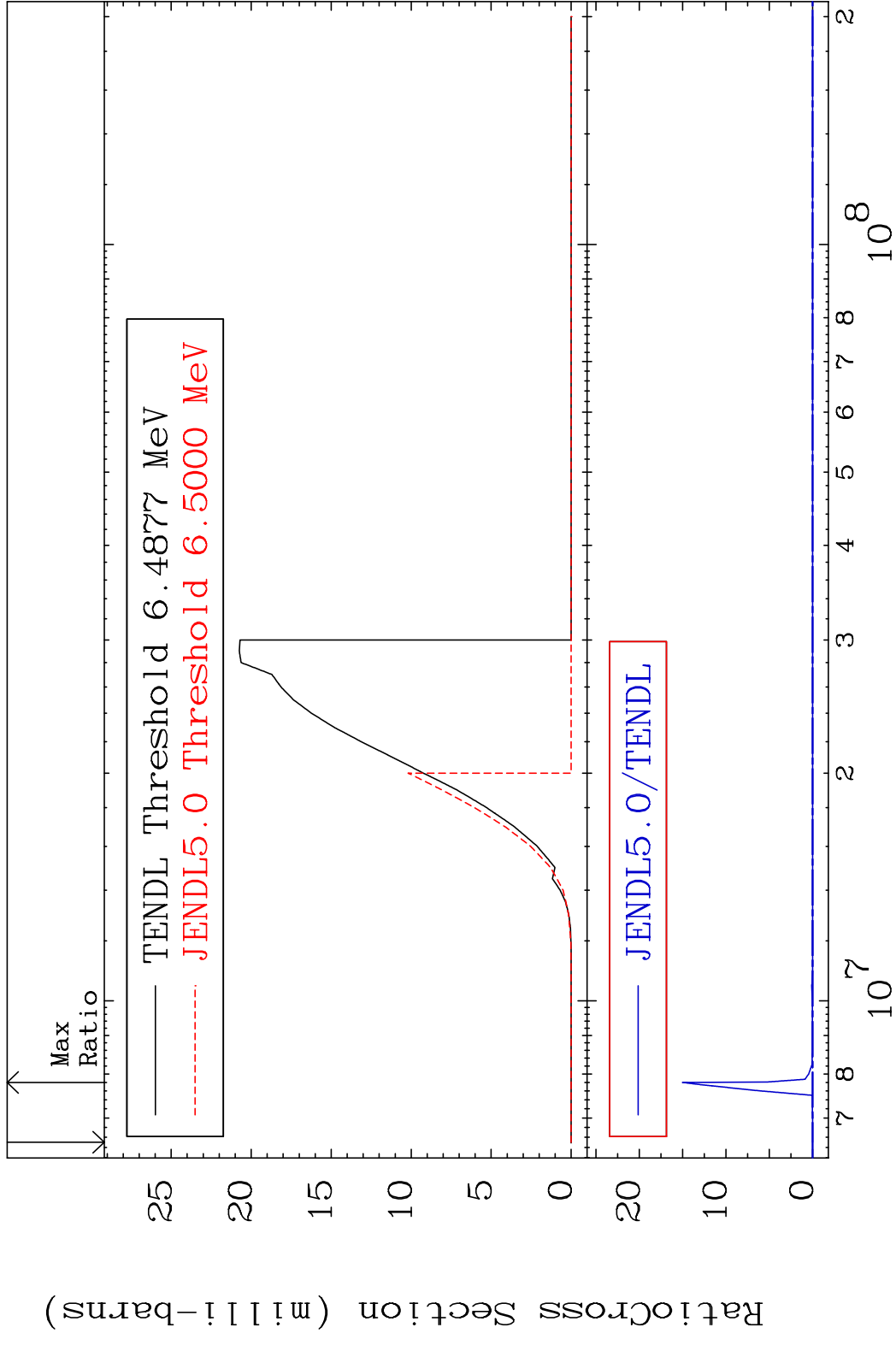


MAT 5443

(n,d)

54-Xe-130

Cross Section -100.0 To 9999. %



42

Incident Energy (eV)

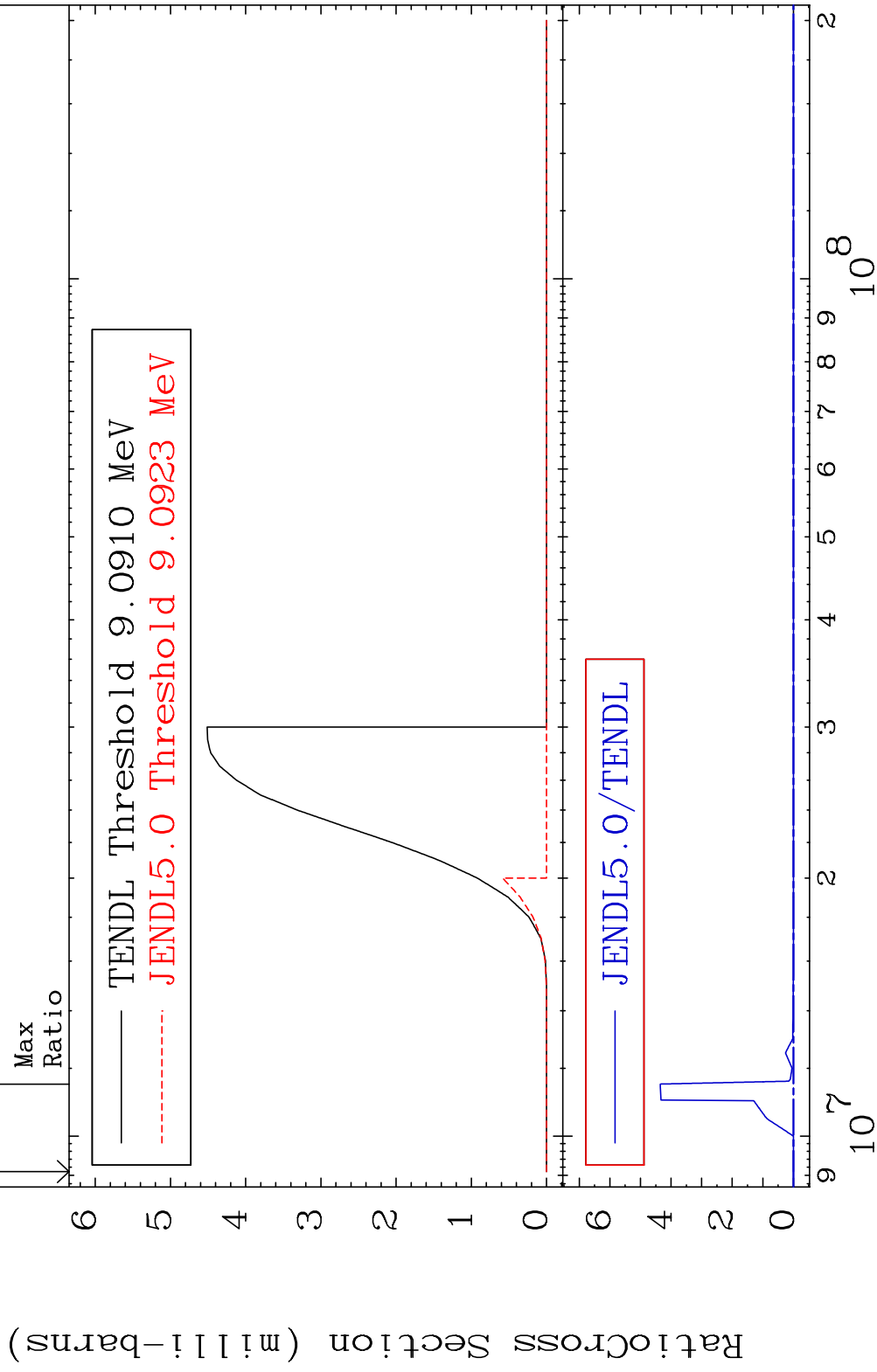
54-Xe-130

MAT 5443

(n, t)

54-Xe-130

Cross Section -100.0 To 9999. %



43

Incident Energy (eV)

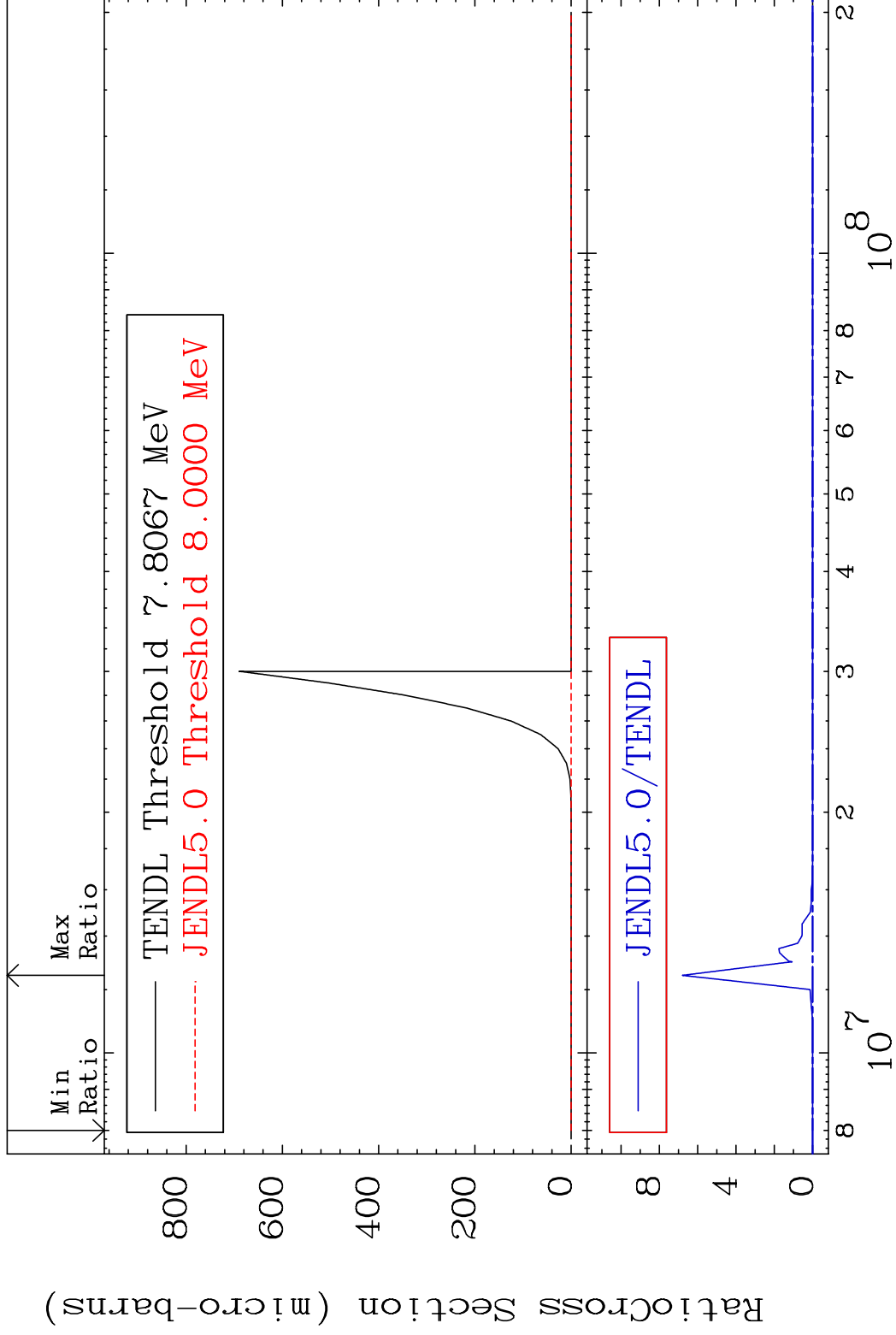
54-Xe-130

MAT 5443

(n, He-3)

54-Xe-130

Cross Section -100.0 To 9999. %



44

Incident Energy (eV)

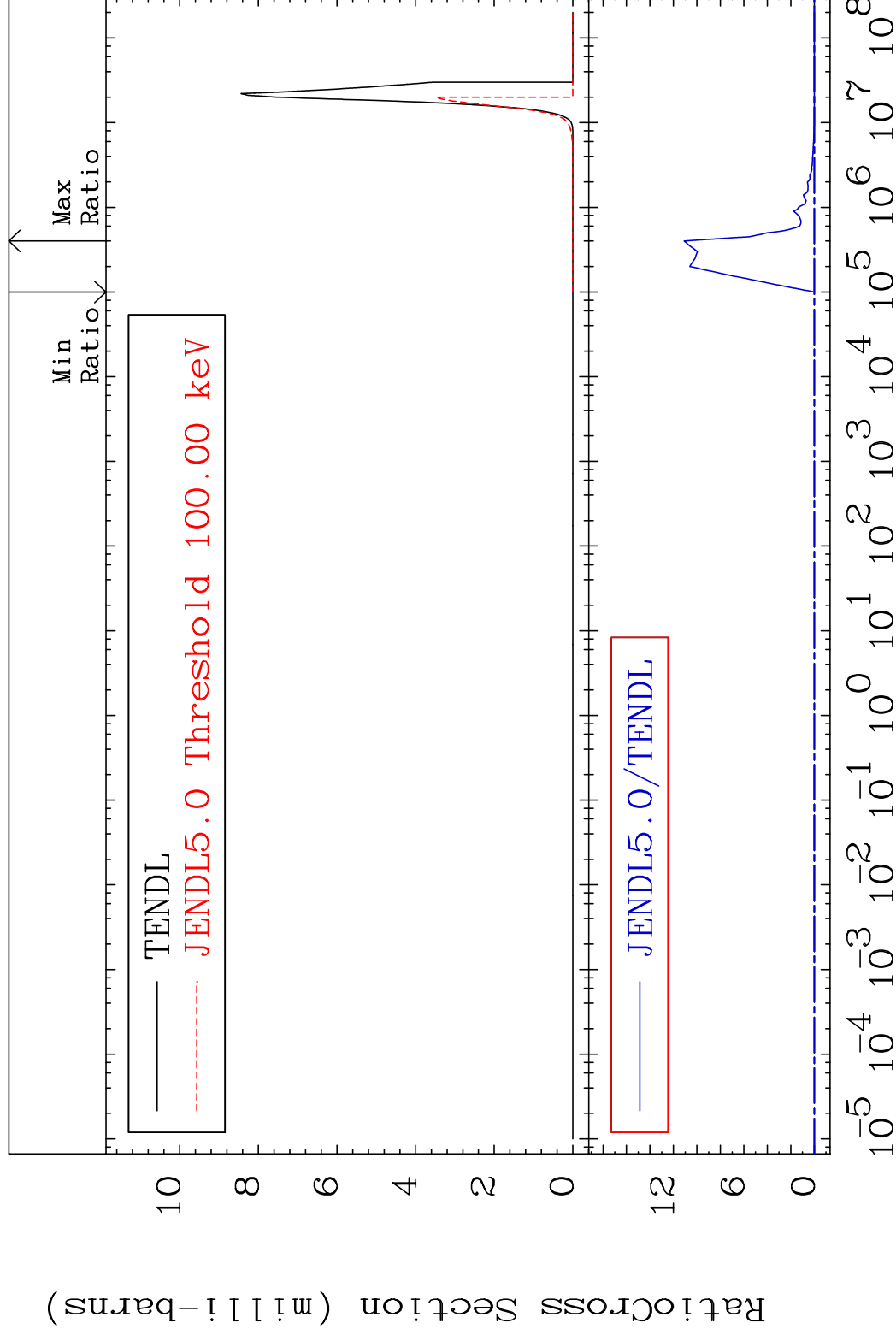
54-Xe-130

MAT 5443

(n,  $\alpha$ )

54-Xe-130

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

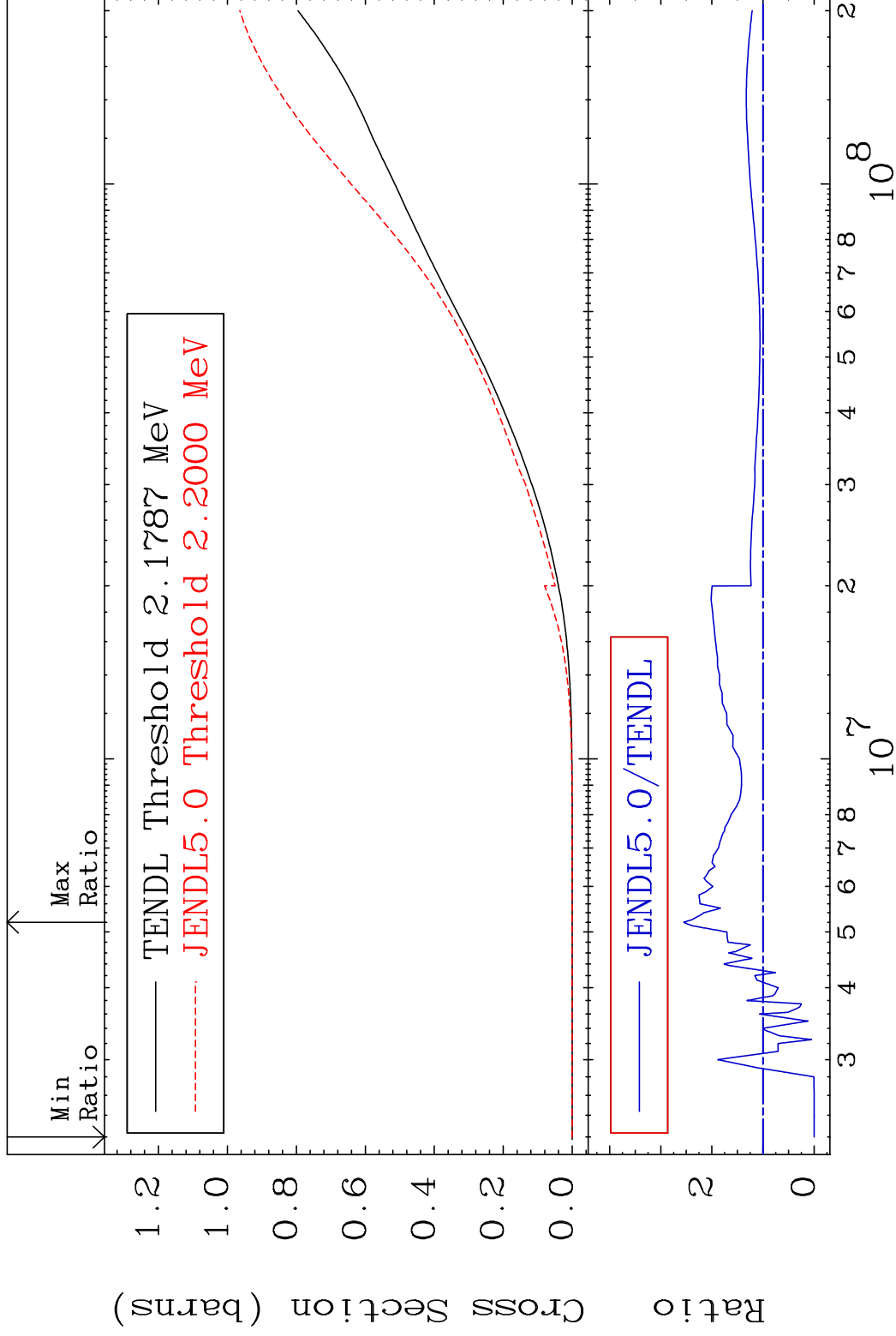
54-Xe-130

MAT 5443

Hydrogen Production

54-Xe-130

Cross Section -100.0 To 155.2 %



46

Incident Energy (eV)

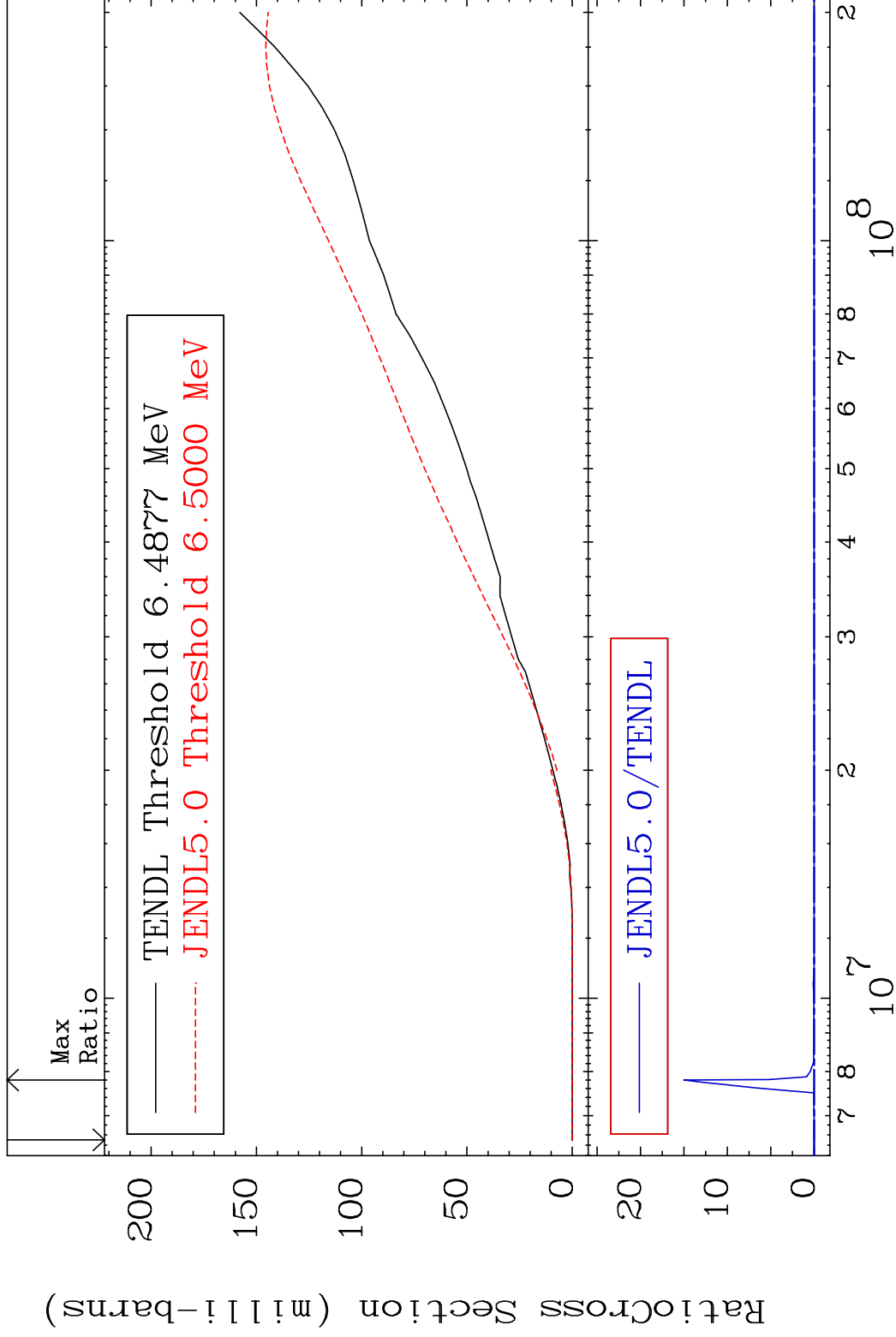
54-Xe-130

MAT 5443

Deuterium Production

54-Xe-130

Cross Section -100.0 To 9999. %



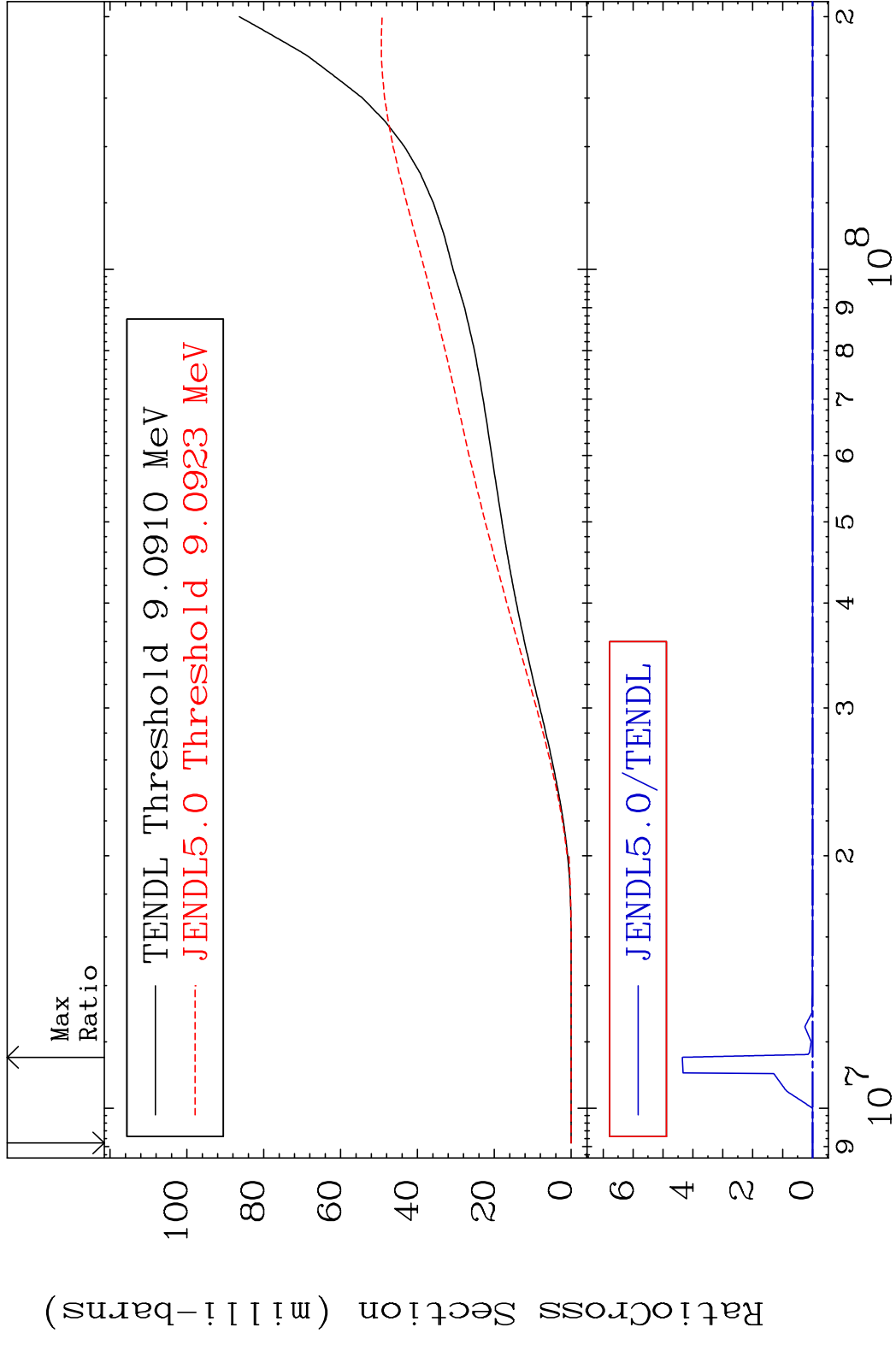
47

Incident Energy (eV)

54-Xe-130



MAT 5443 Tritium Production 54-Xe-130  
 Cross Section -100.0 To 9999. %



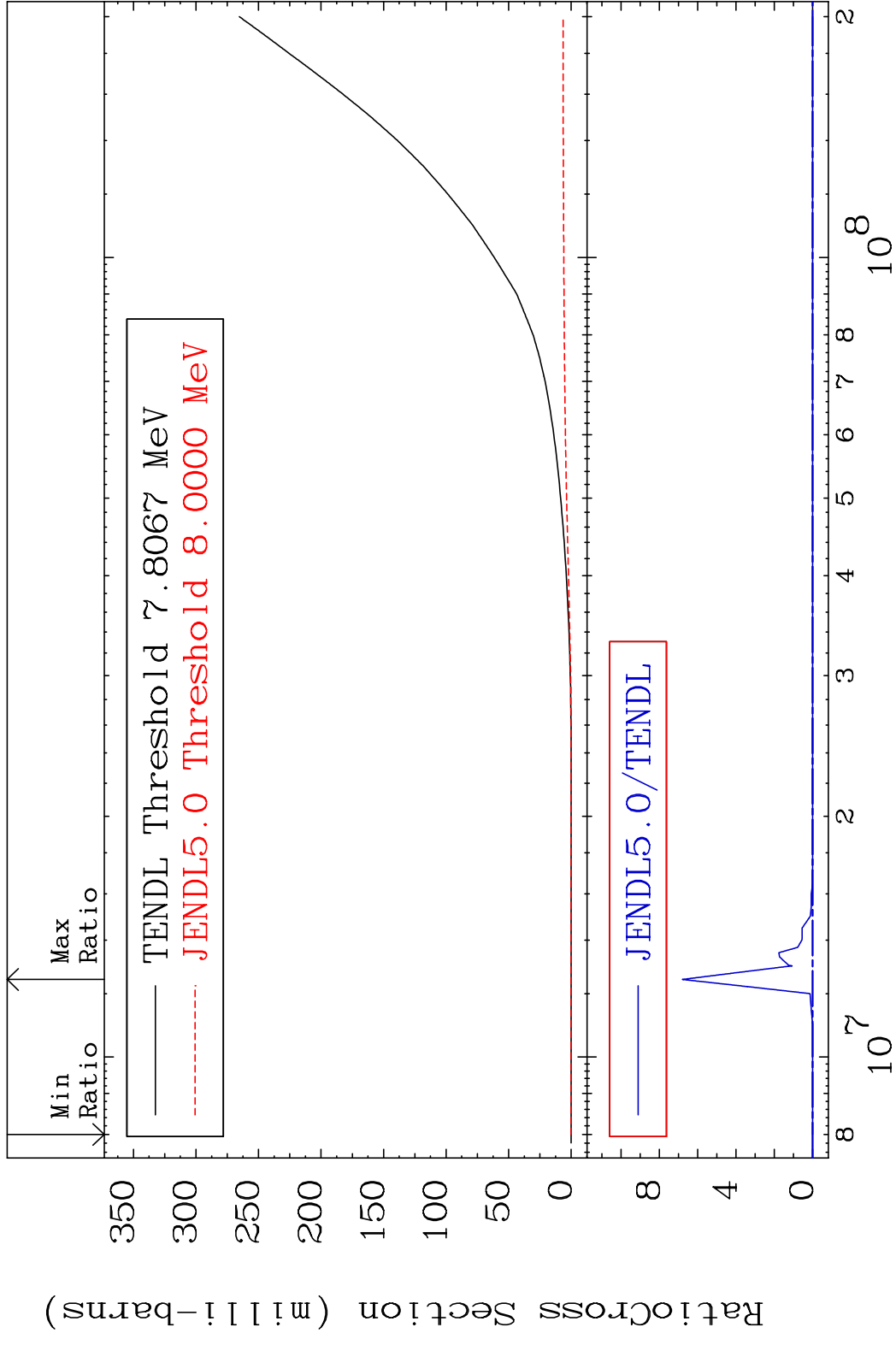
48 54-Xe-130

MAT 5443

He-3 Production

54-Xe-130

Cross Section -100.0 To 9999. %



49

Incident Energy (eV)

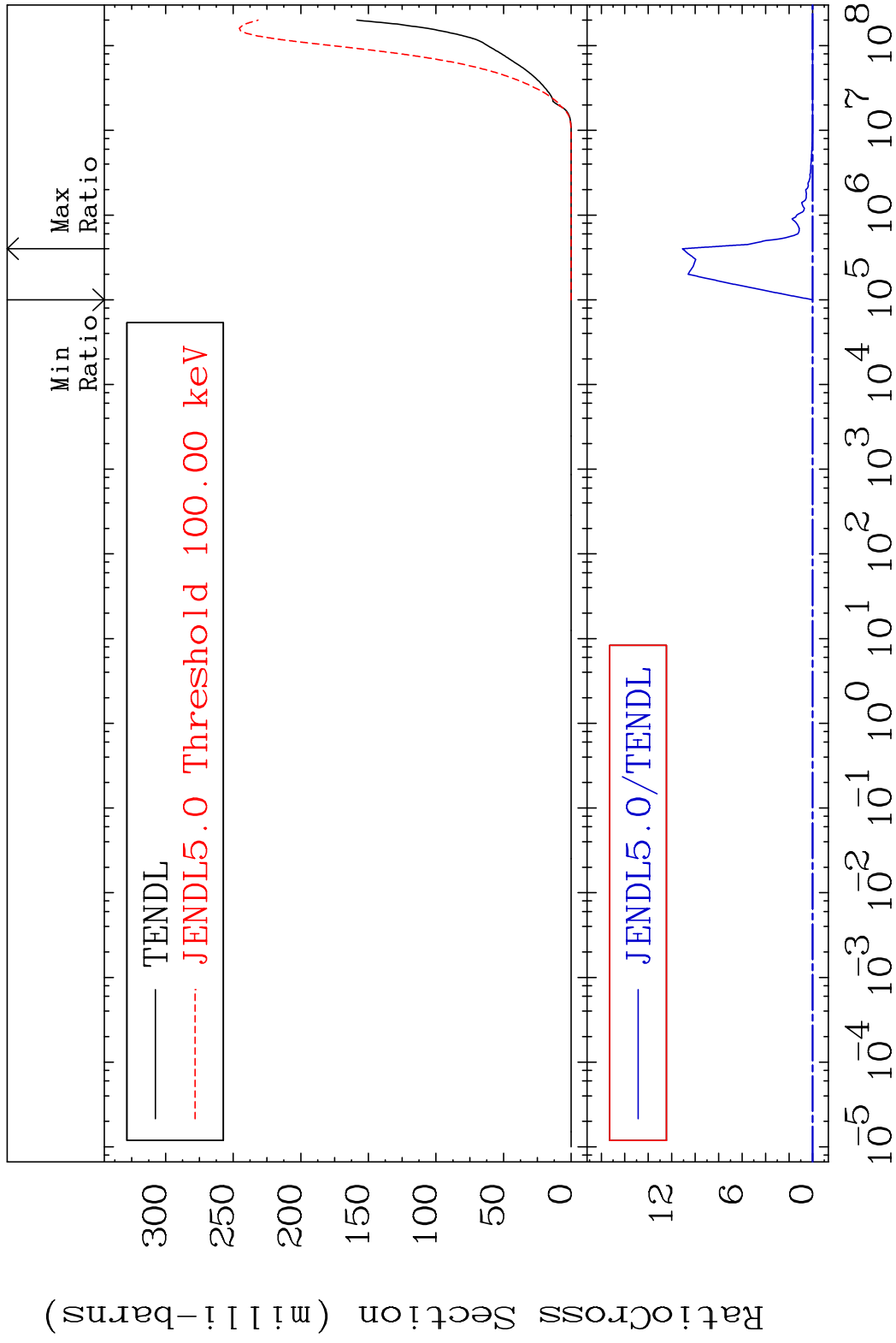
54-Xe-130

MAT 5443

He-4 Production

54-Xe-130

Cross Section -100.0 To 9999. %

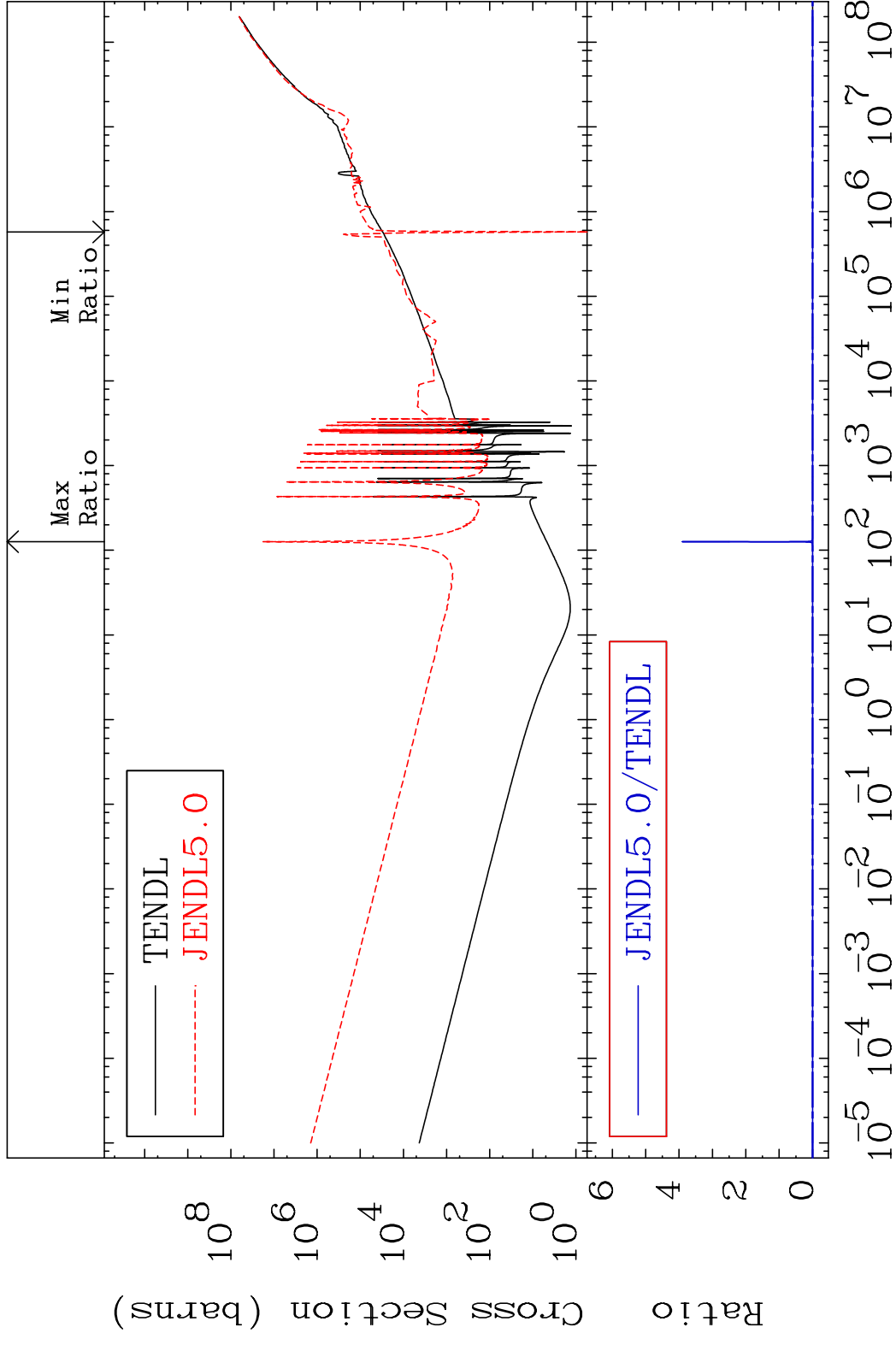


50

Incident Energy (eV)

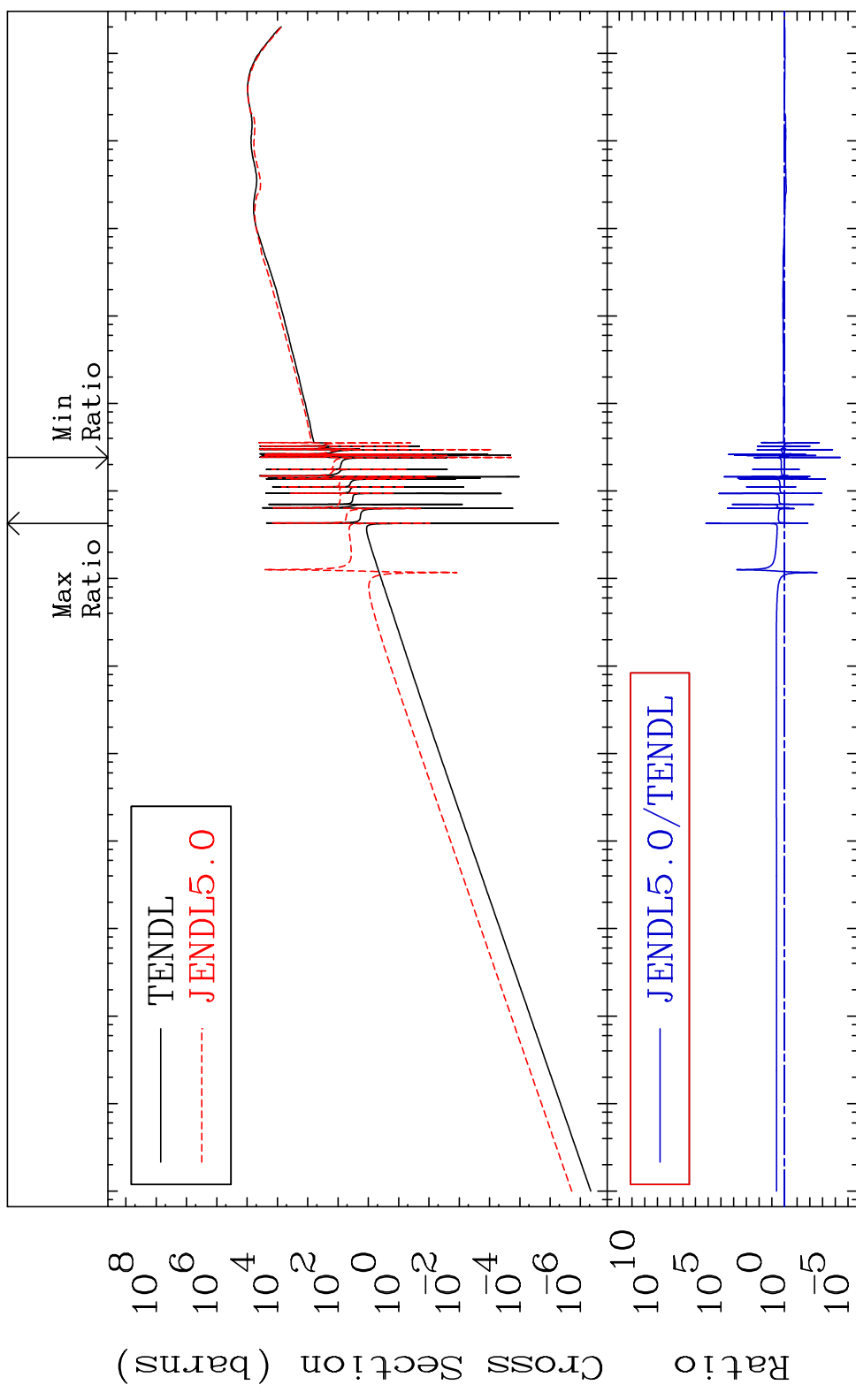
54-Xe-130

MAT 5443 Kerma total (eV-barns) 54-Xe-130  
 Cross Section -100.9 To 9999. %



MAT 5443

Kerma elastic  
Cross Section -100.0 To 9999. %  
54-Xe-130



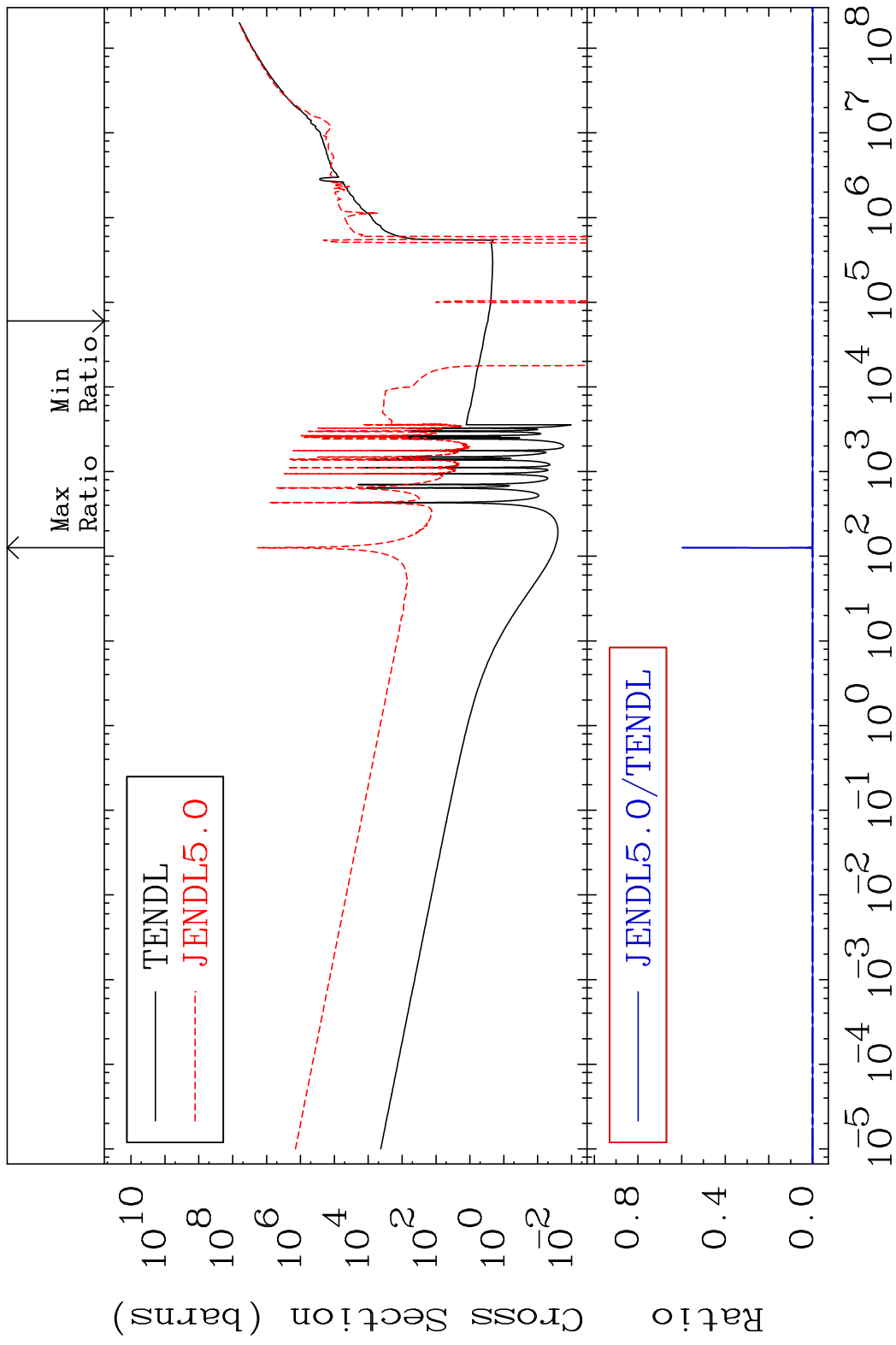
Ratio  
10<sup>8</sup>  
10<sup>6</sup>  
10<sup>4</sup>  
10<sup>2</sup>  
10<sup>0</sup>  
10<sup>-2</sup>  
10<sup>-4</sup>  
10<sup>-6</sup>  
10<sup>-8</sup>  
10<sup>10</sup>  
10<sup>5</sup>  
10<sup>0</sup>  
10<sup>-5</sup>  
10<sup>-5</sup> 10<sup>-4</sup> 10<sup>-3</sup> 10<sup>-2</sup> 10<sup>-1</sup> 10<sup>0</sup> 10<sup>1</sup> 10<sup>2</sup> 10<sup>3</sup> 10<sup>4</sup> 10<sup>5</sup> 10<sup>6</sup> 10<sup>7</sup> 10<sup>8</sup>

52

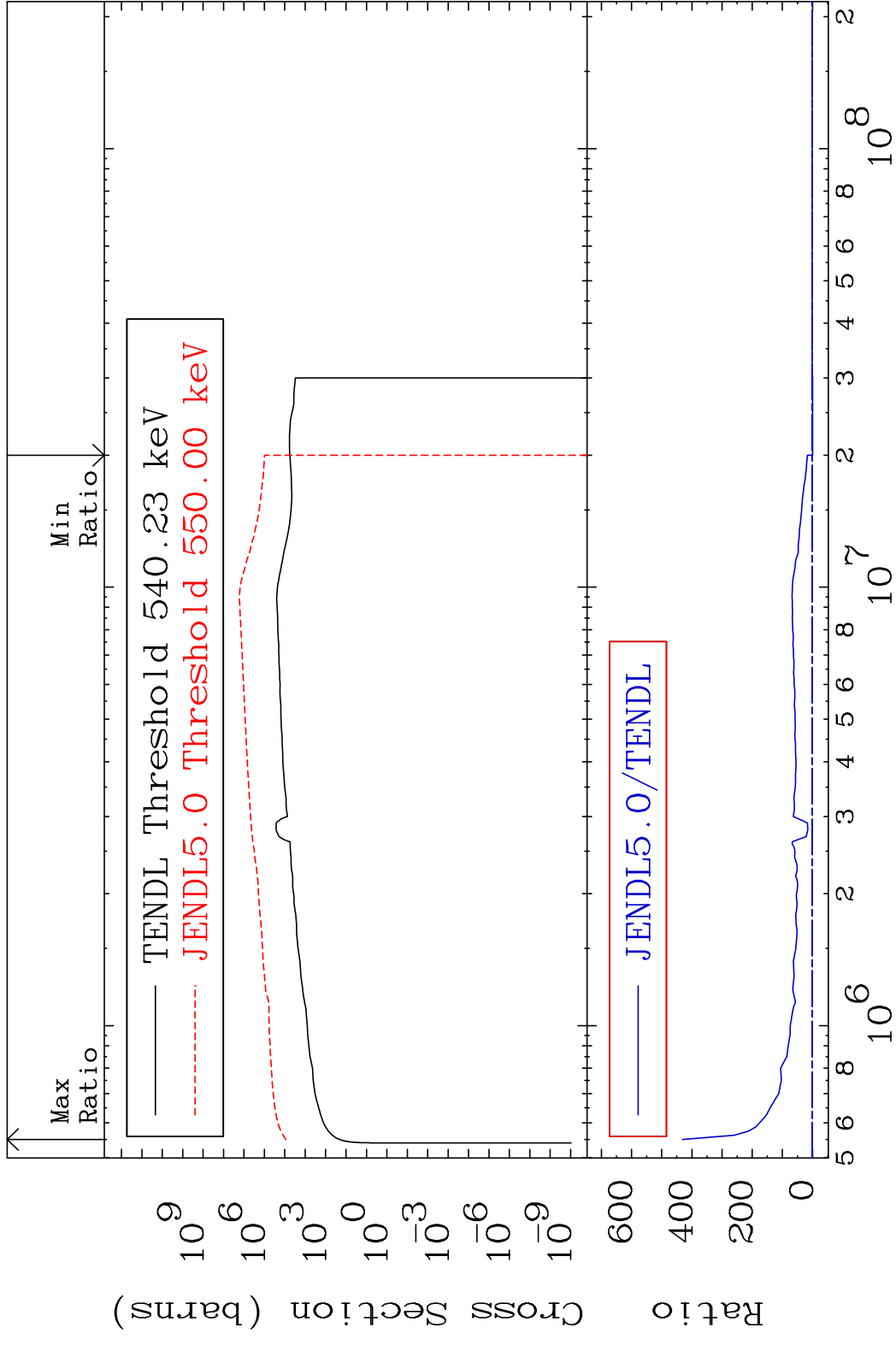
Incident Energy (eV)

54-Xe-130

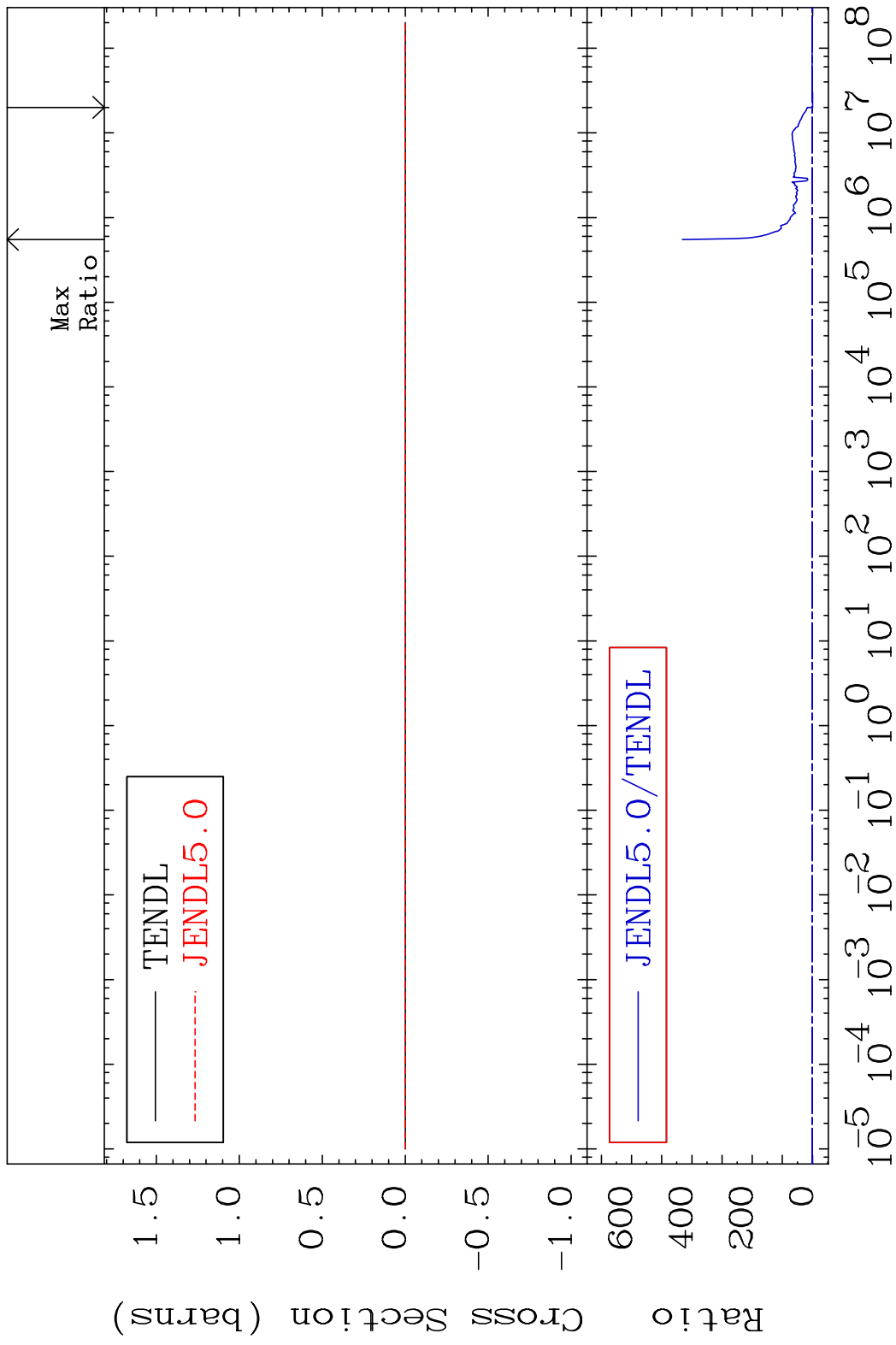
MAT 5443 Kerma non-elastic (all but mt2) 54-Xe-130  
 Cross Section -9999. To 9999. %



MAT 5443 Kerma inelastic (mt51-91) 54-Xe-130  
 Cross Section -100.0 To 9999. %



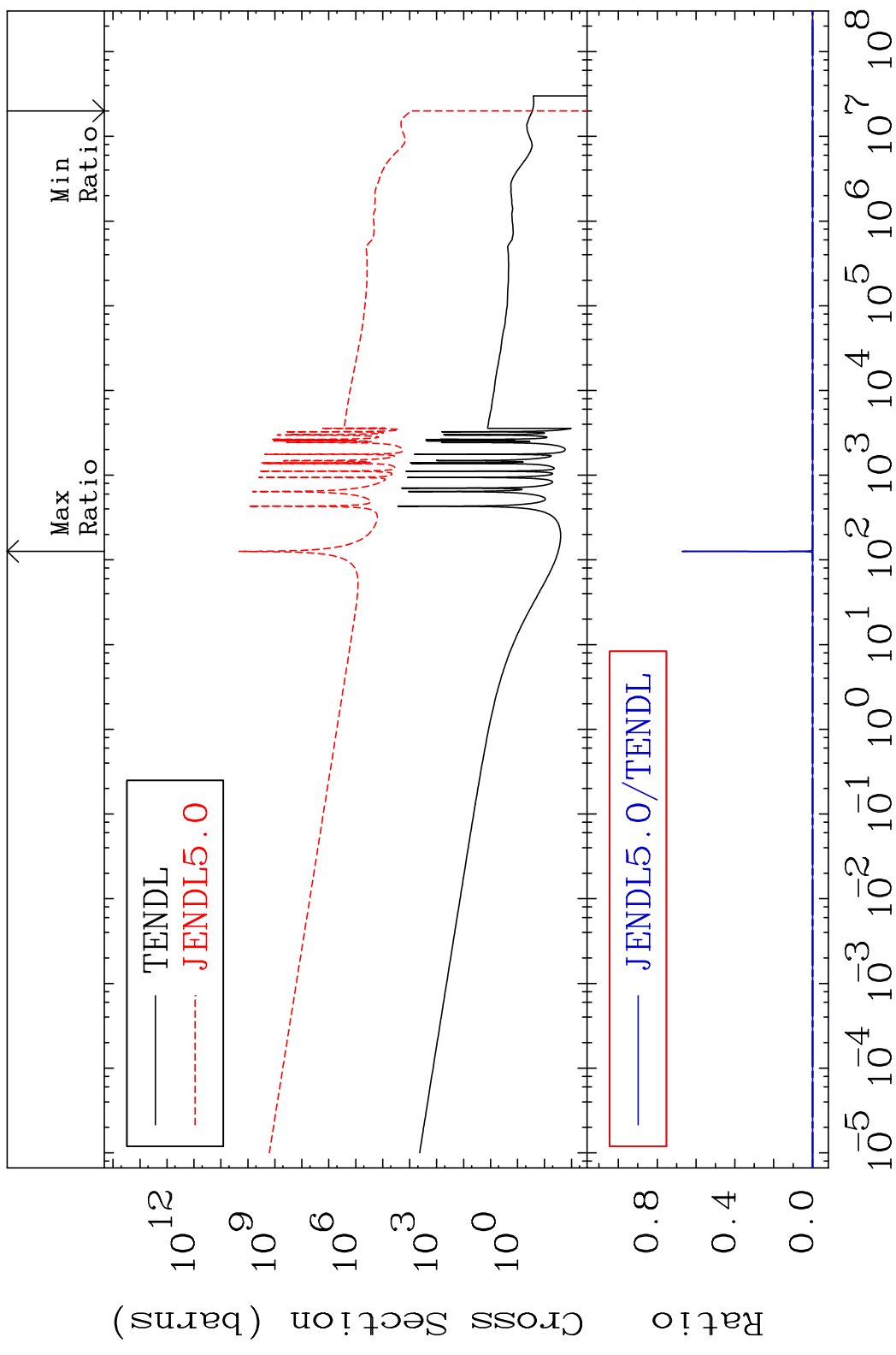
MAT 5443 Kerma fission (mt18 or mt19-20-21-38) 54-Xe-130  
 Cross Section -100.0 To 9999. %





MAT 5443

Kerma capture (mt102) 54-Xe-130  
Cross Section -100.0 To 9999. %

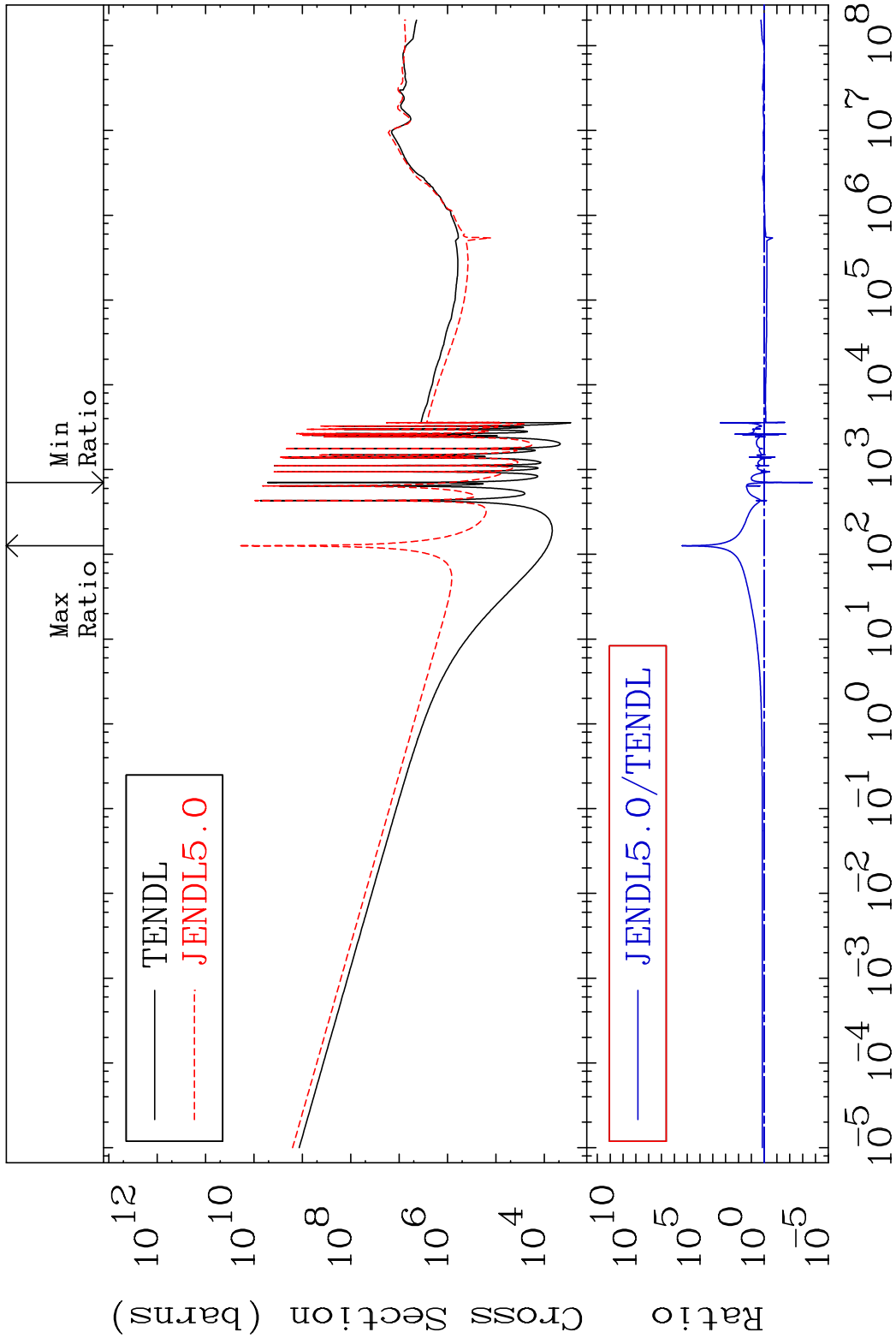


56

Incident Energy (eV) 54-Xe-130

MAT 5443

Total photon (eV-barns) 54-Xe-130  
Cross Section -99.98 To 9999. %

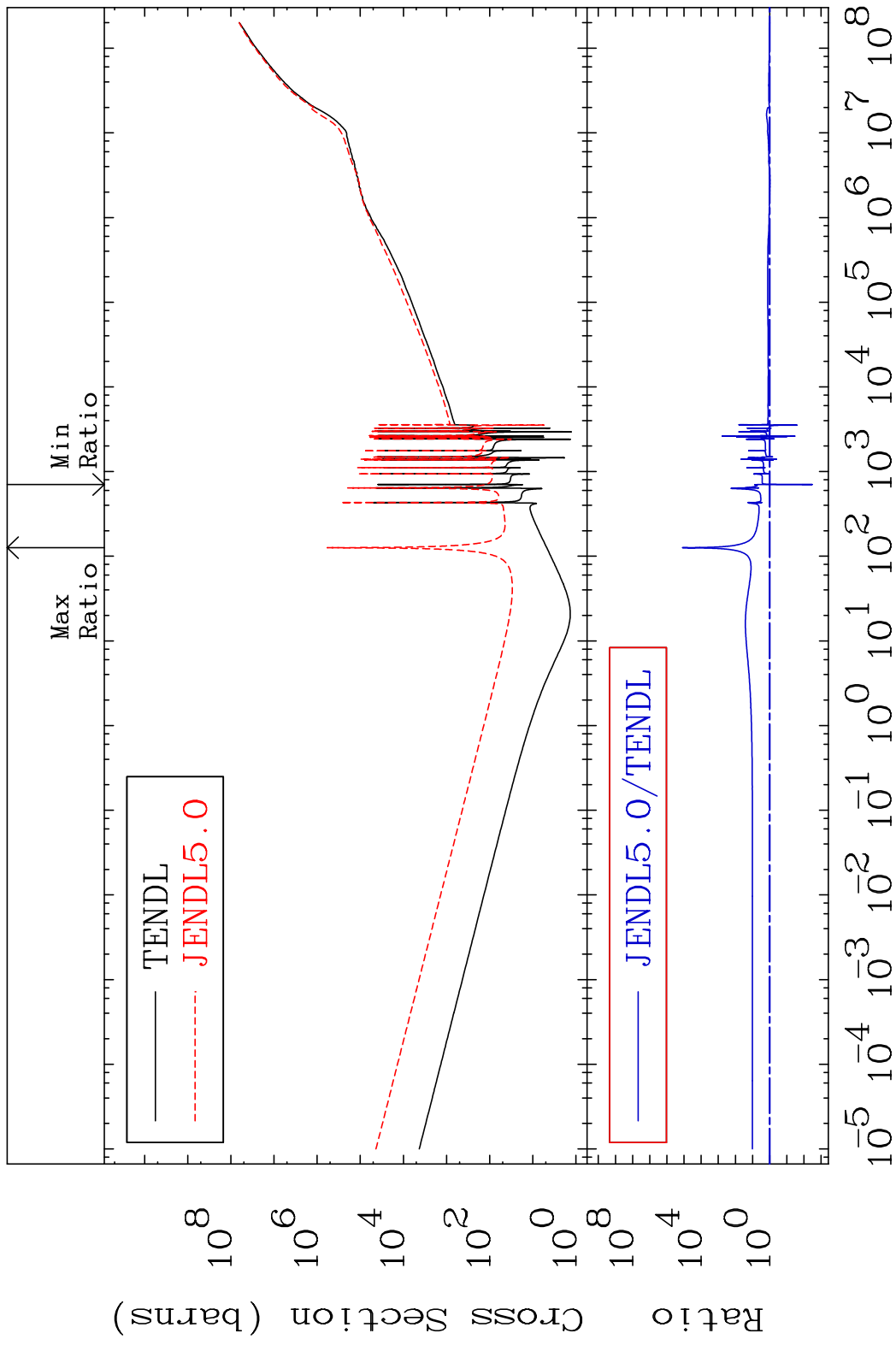


57

Incident Energy (eV)

54-Xe-130

MAT 5443 Total kinematic kerma (high limit) 54-Xe-130  
 Cross Section -99.69 To 9999. %

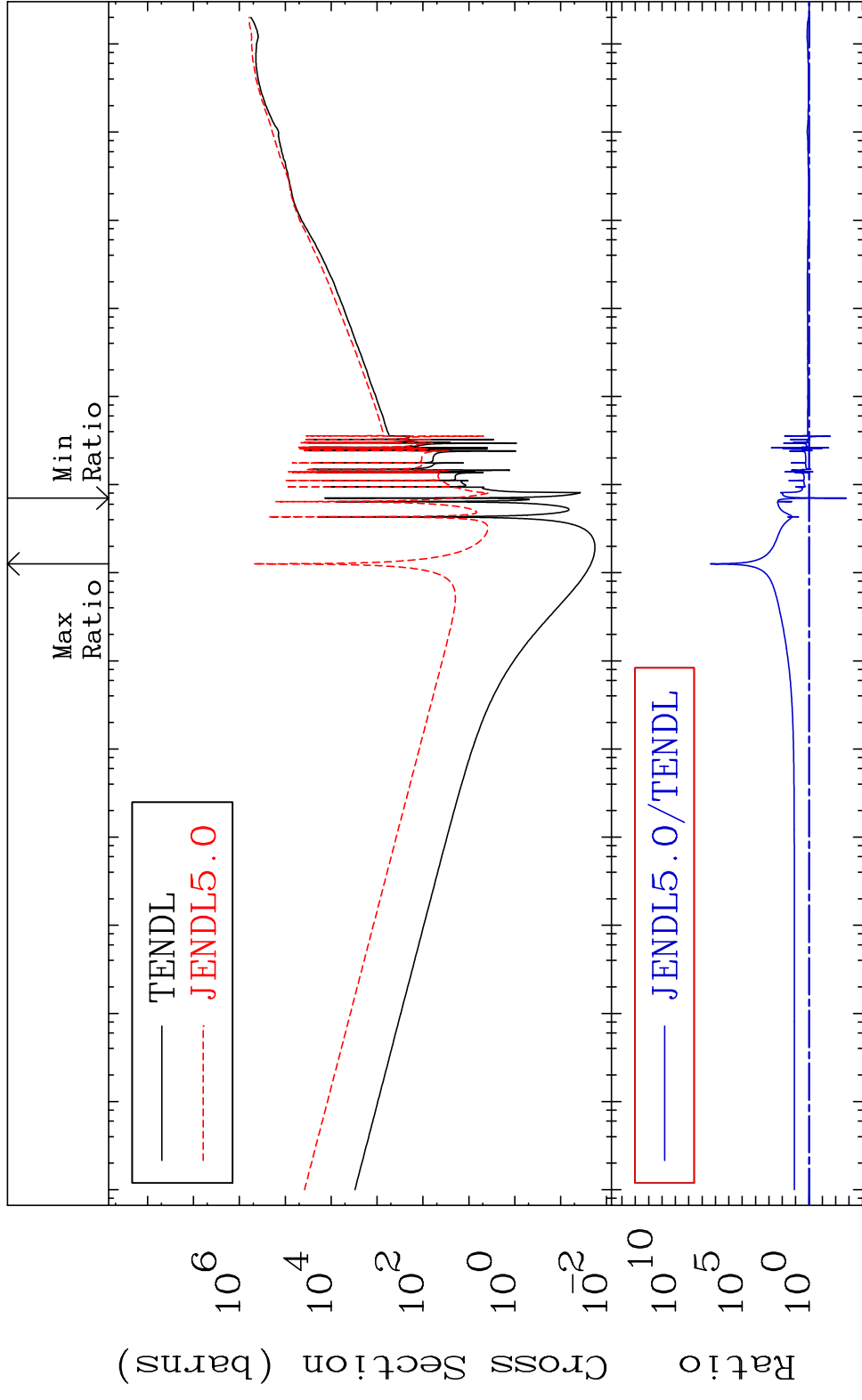


MAT 5443

Dpa total (eV-barns)

54-Xe-130

Cross Section -99.84 To 9999. %



59

Incident Energy (eV)

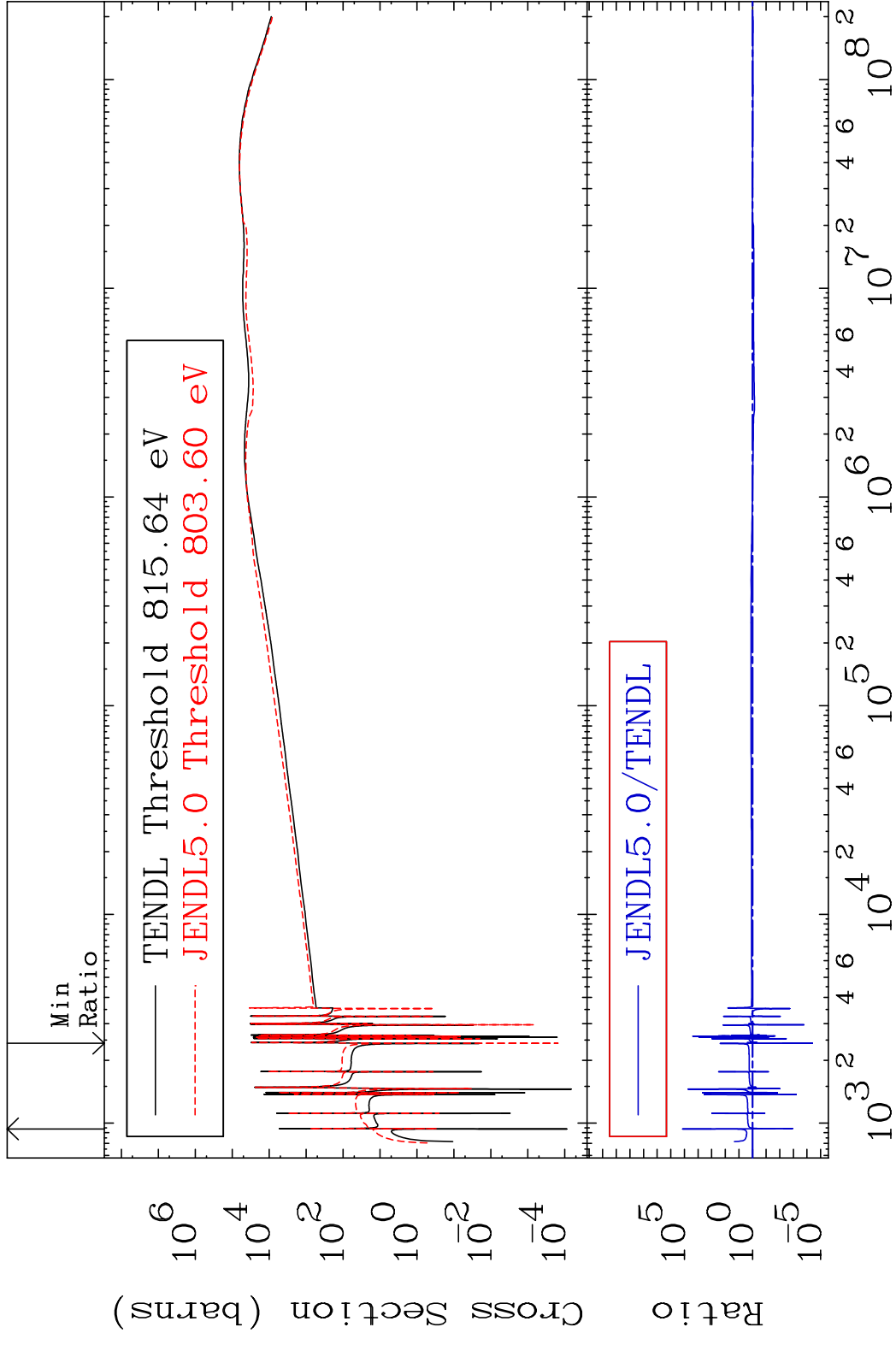
54-Xe-130

MAT 5443

Dpa elastic (mt2)

54-Xe-130

Cross Section -100.0 To 9999. %

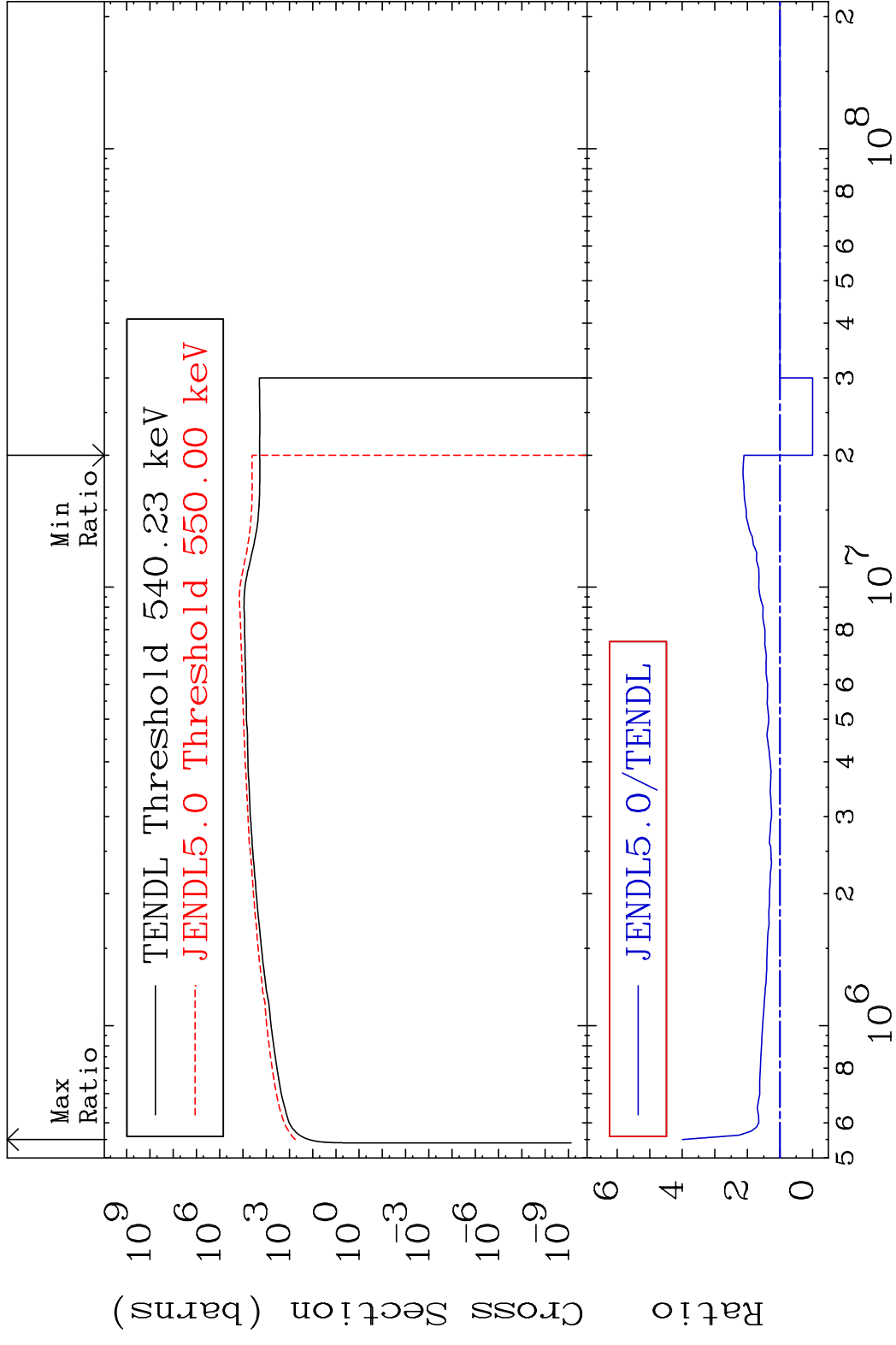


60

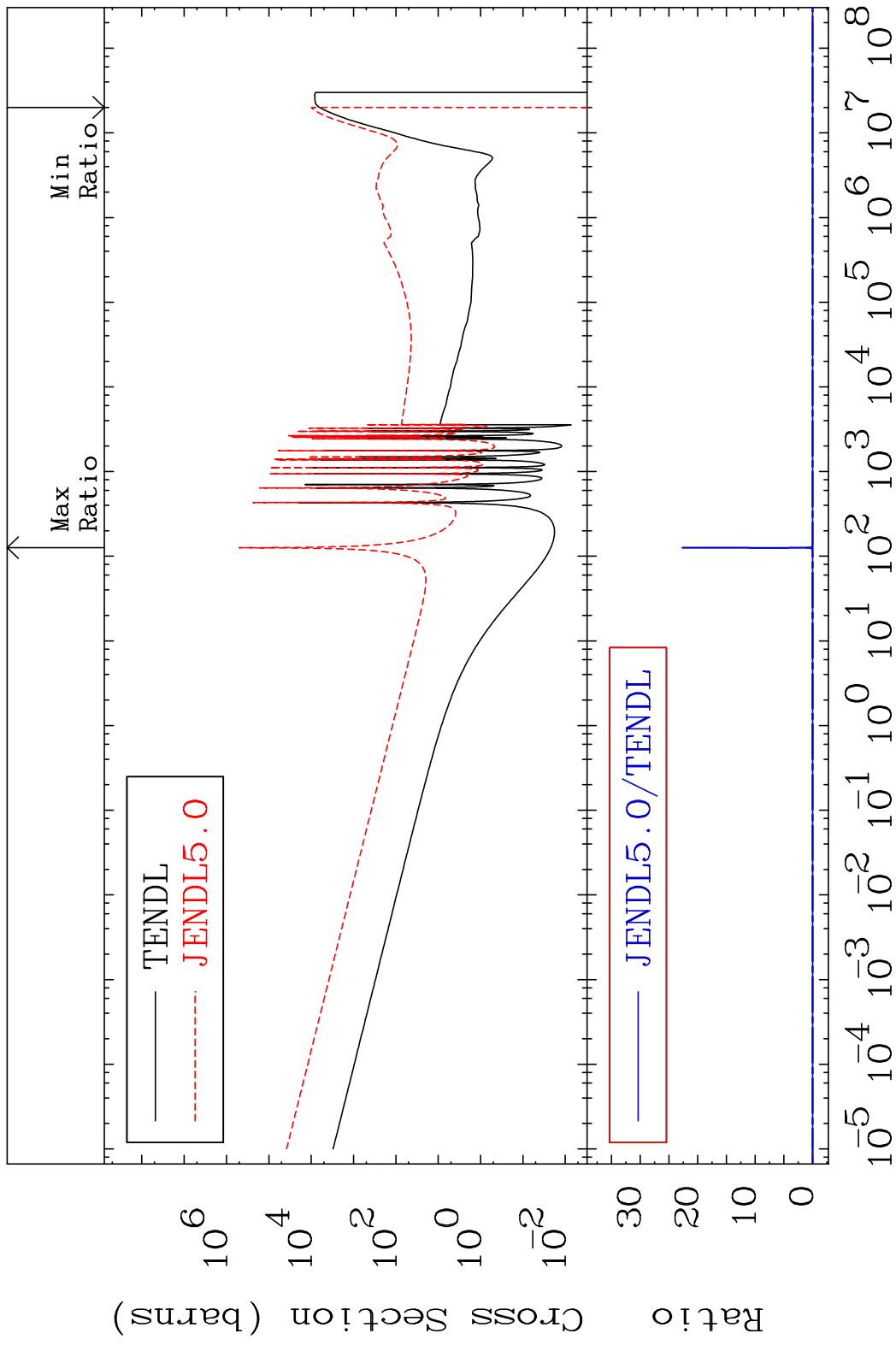
Incident Energy (eV)

54-Xe-130

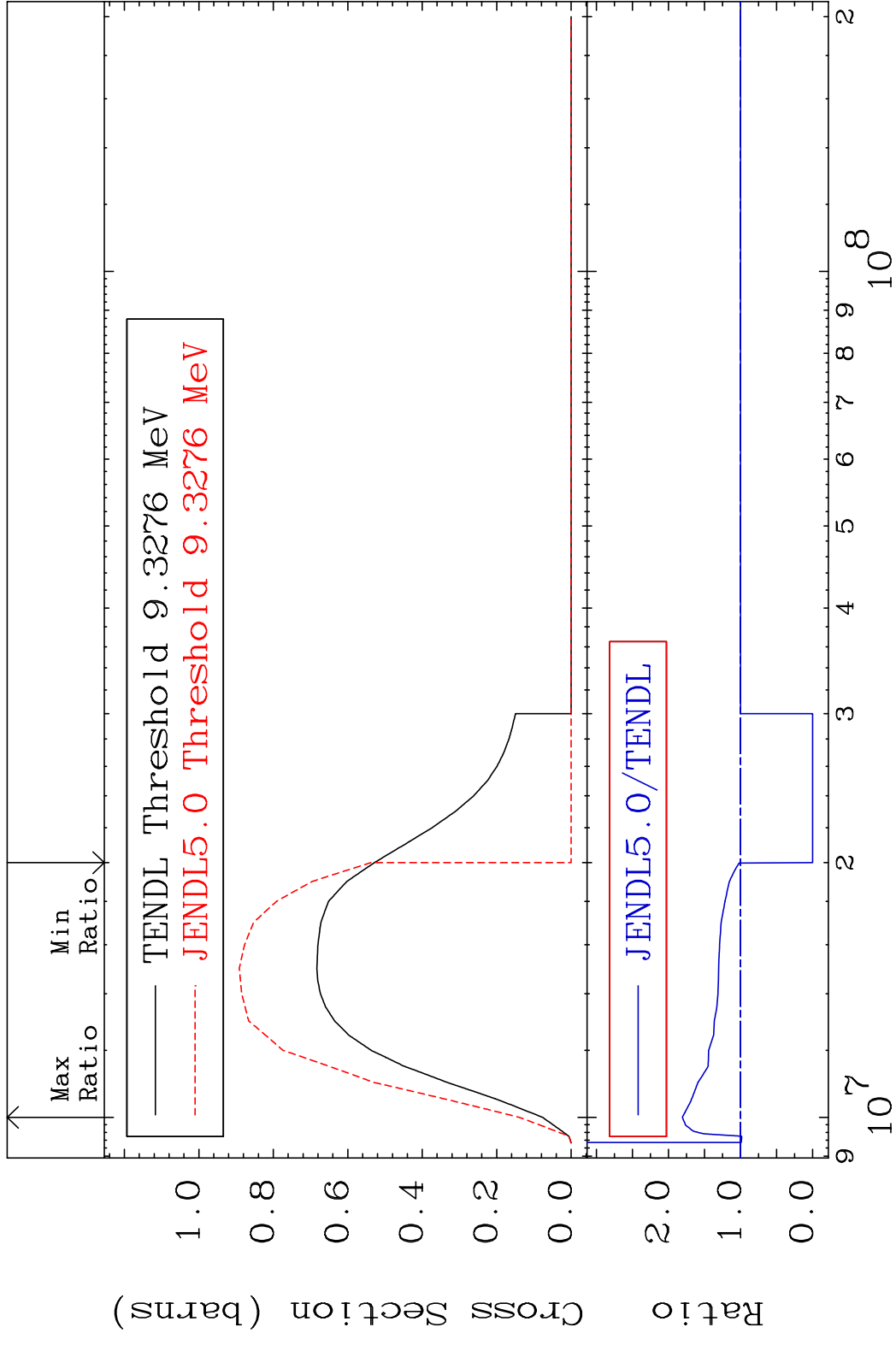
MAT 5443 Dpa inelastic (mt51-91) 54-Xe-130  
 Cross Section -100.0 To 299.7 %



MAT 5443 Dpa disappearance (mt102 -120) 54-Xe-130  
 Cross Section -100.0 To 9999. %



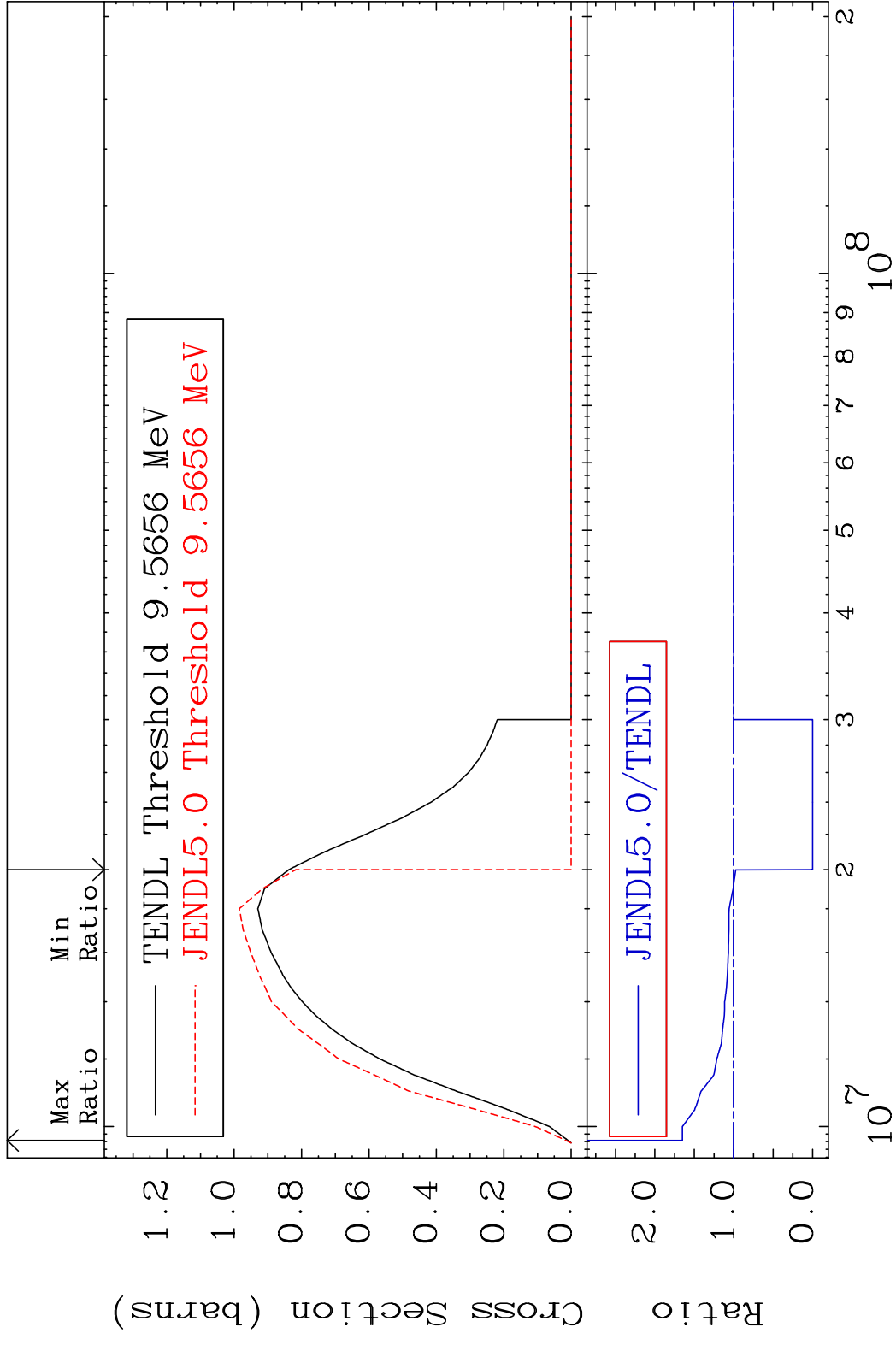
MAT 5443 (n,2n):54-Xe-129g 54-Xe-130  
 Radionuclide Production Cross Section Ratio 80.69 %



63 Incident Energy (eV) 54-Xe-130

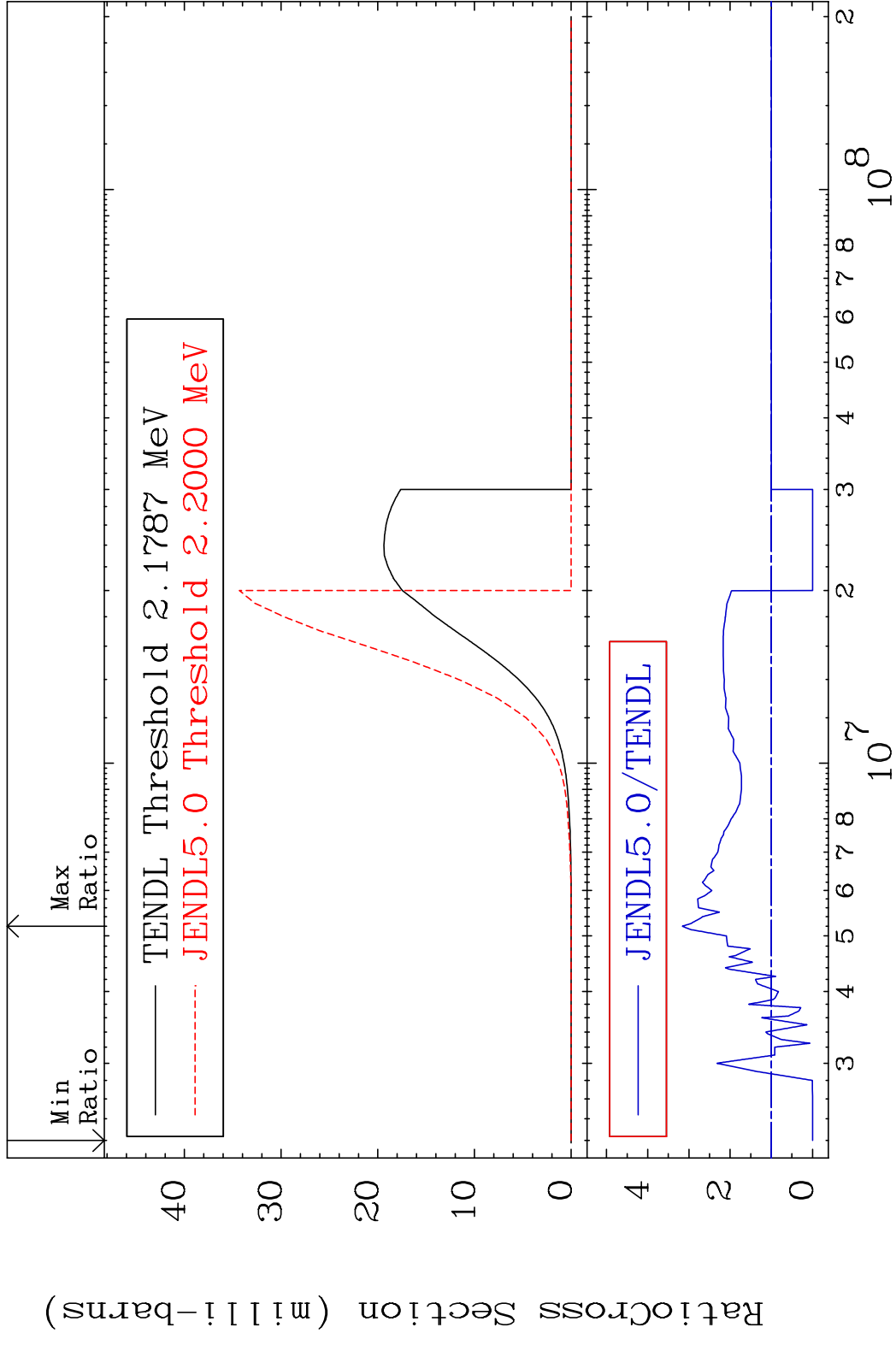


MAT 5443 (n,2n):54-Xe-129m2 54-Xe-130  
 Radionuclide Production Cross Section Ratio 65.16 %



64 Incident Energy (eV) 54-Xe-130

MAT 5443 (n,p):53-I -130g 54-Xe-130  
 Radionuclide Production Cross Section 180.0 mb 216.0 %



MAT 5443 (n,p):53-I -130m1 54-Xe-130  
 Radionuclide Production Cross Section 180.01 dth 94.20 %

