

Program Complot  
(Version 2021-1)

by

Dermott E. Cullen  
(Present Contact Information)

Dermott E. Cullen  
1466 Hudson Way  
Livermore, CA 94550

U.S.A.

Tele: 925-443-1911

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

Press Mouse Button to Start

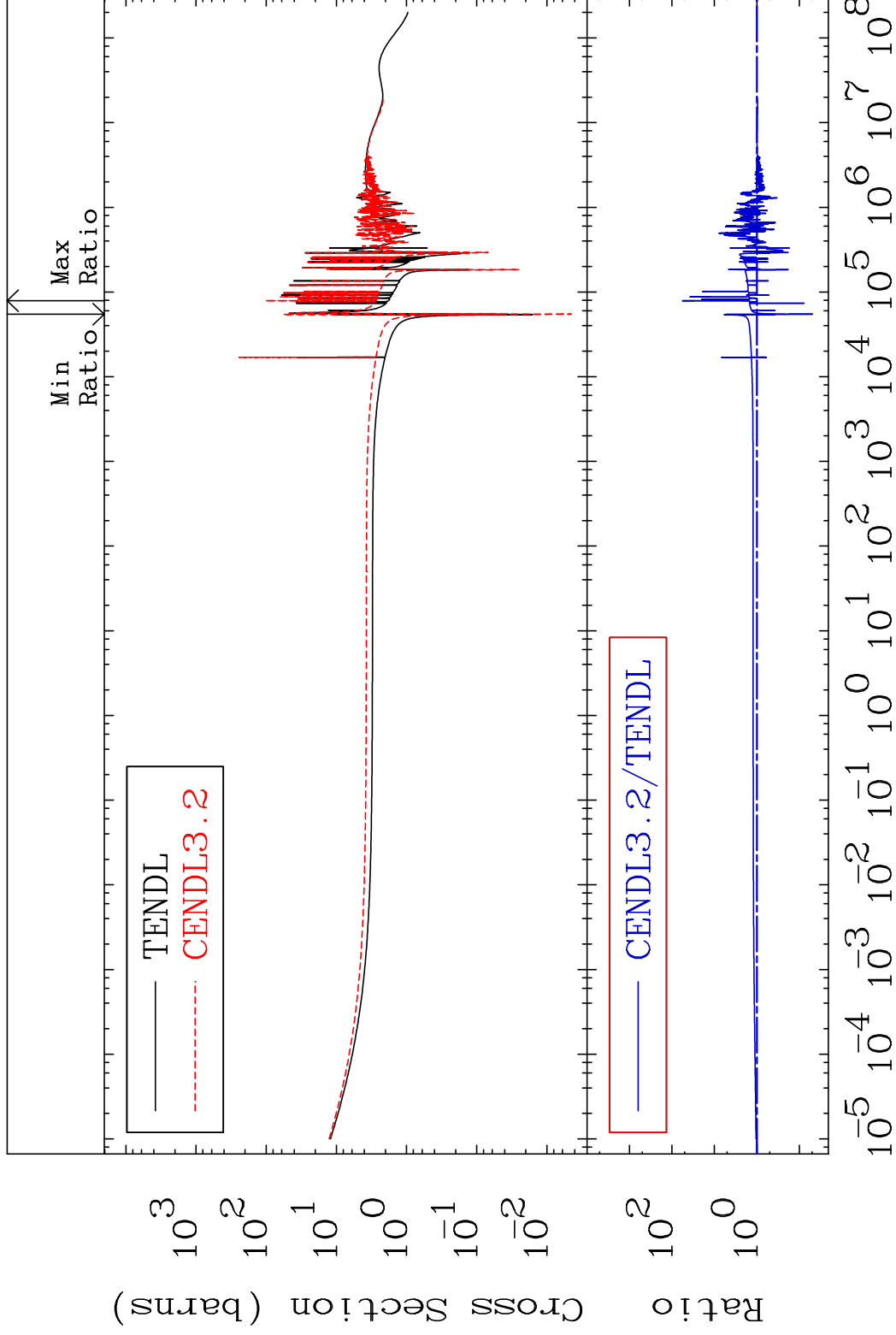
MAT 2237

Total

22-Ti-50

Cross Section

-95.10 To 5573. %



1

Incident Energy (eV)

22-Ti-50

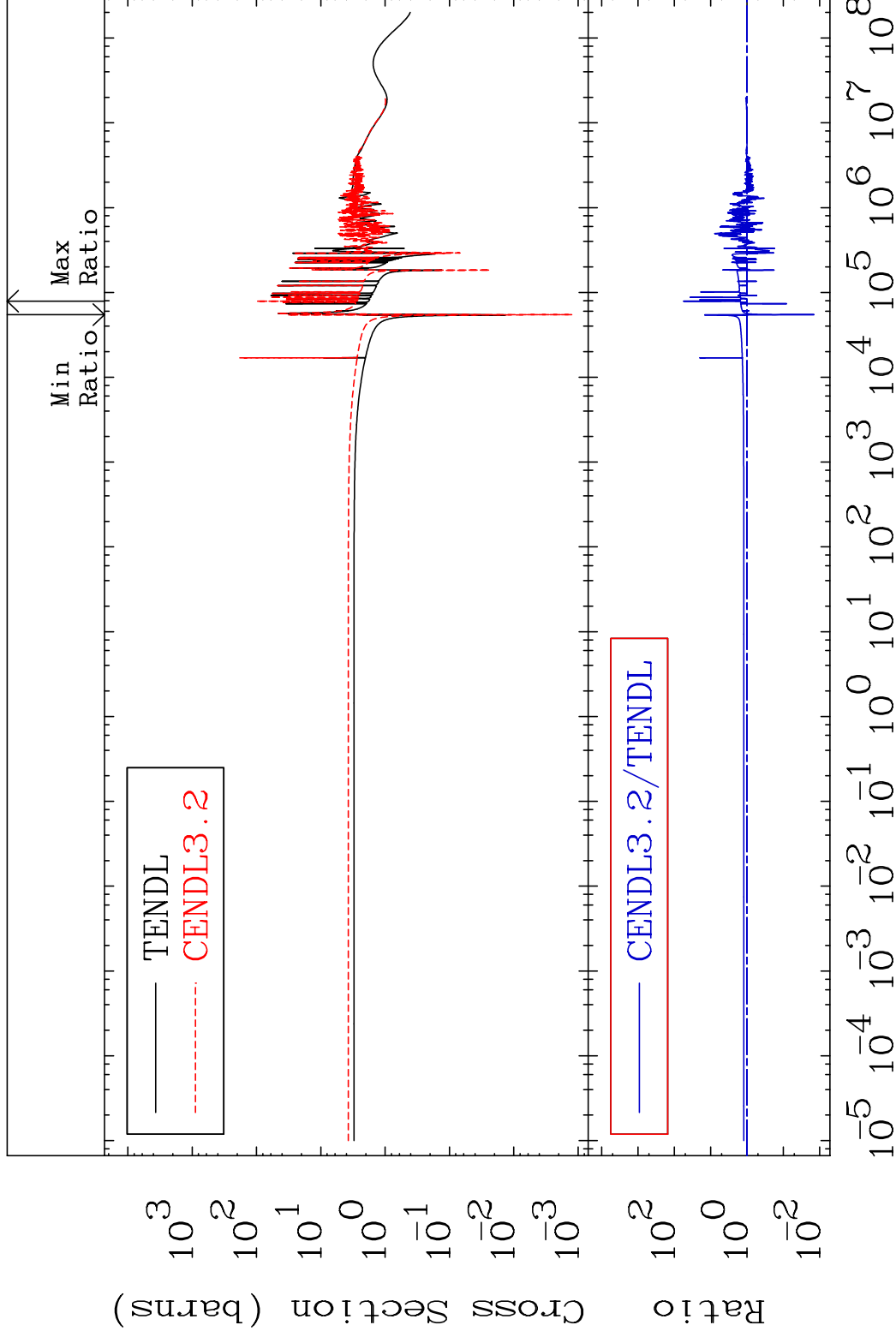
MAT 2237

Elastic

22-Ti-50

Cross Section

-98.58 To 5416. %

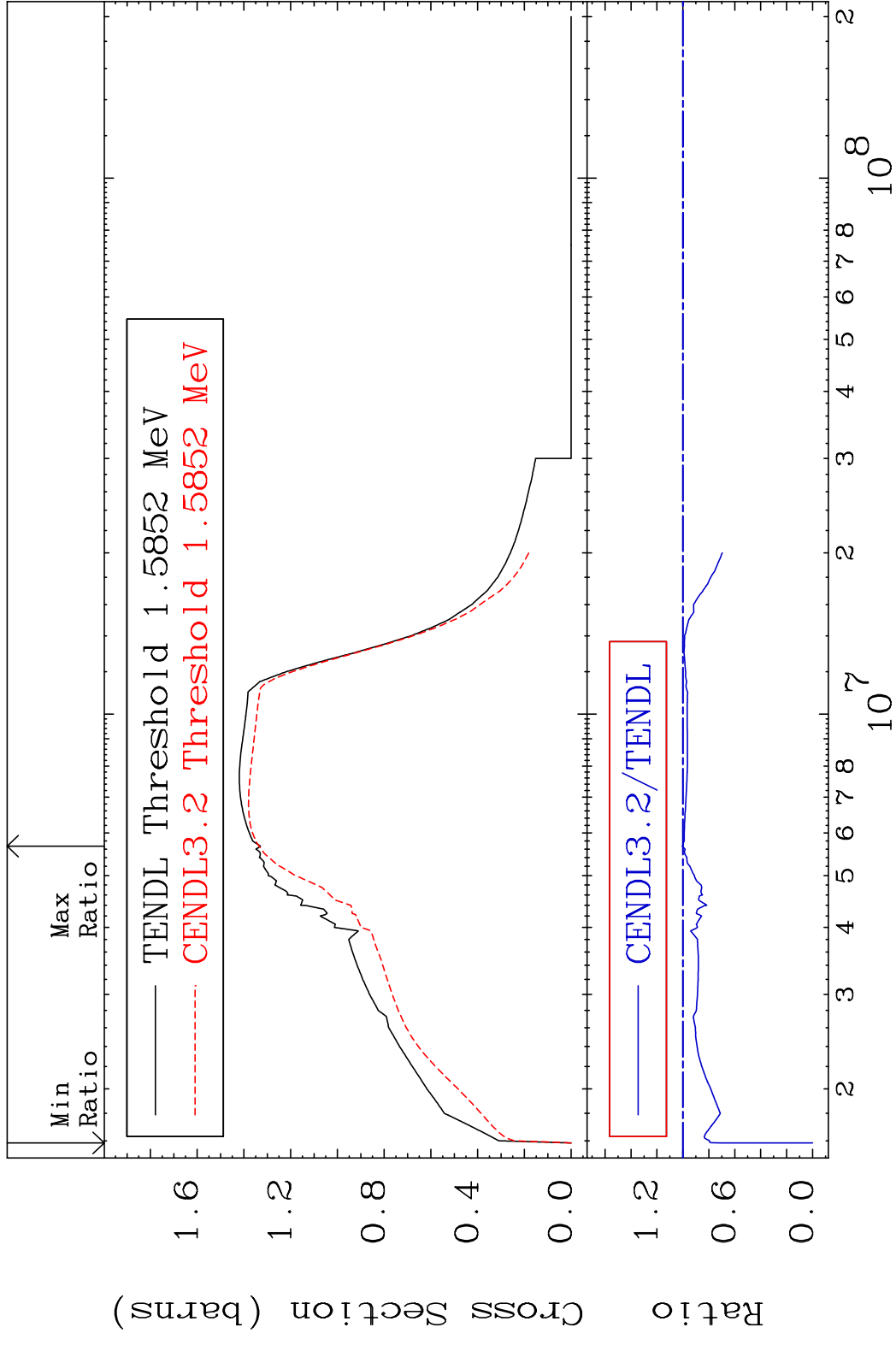


2

Incident Energy (eV)

22-Ti-50

MAT 2237 Inelastic <sup>22</sup>Ti-50  
 Cross Section -100.0 To 0.416 %

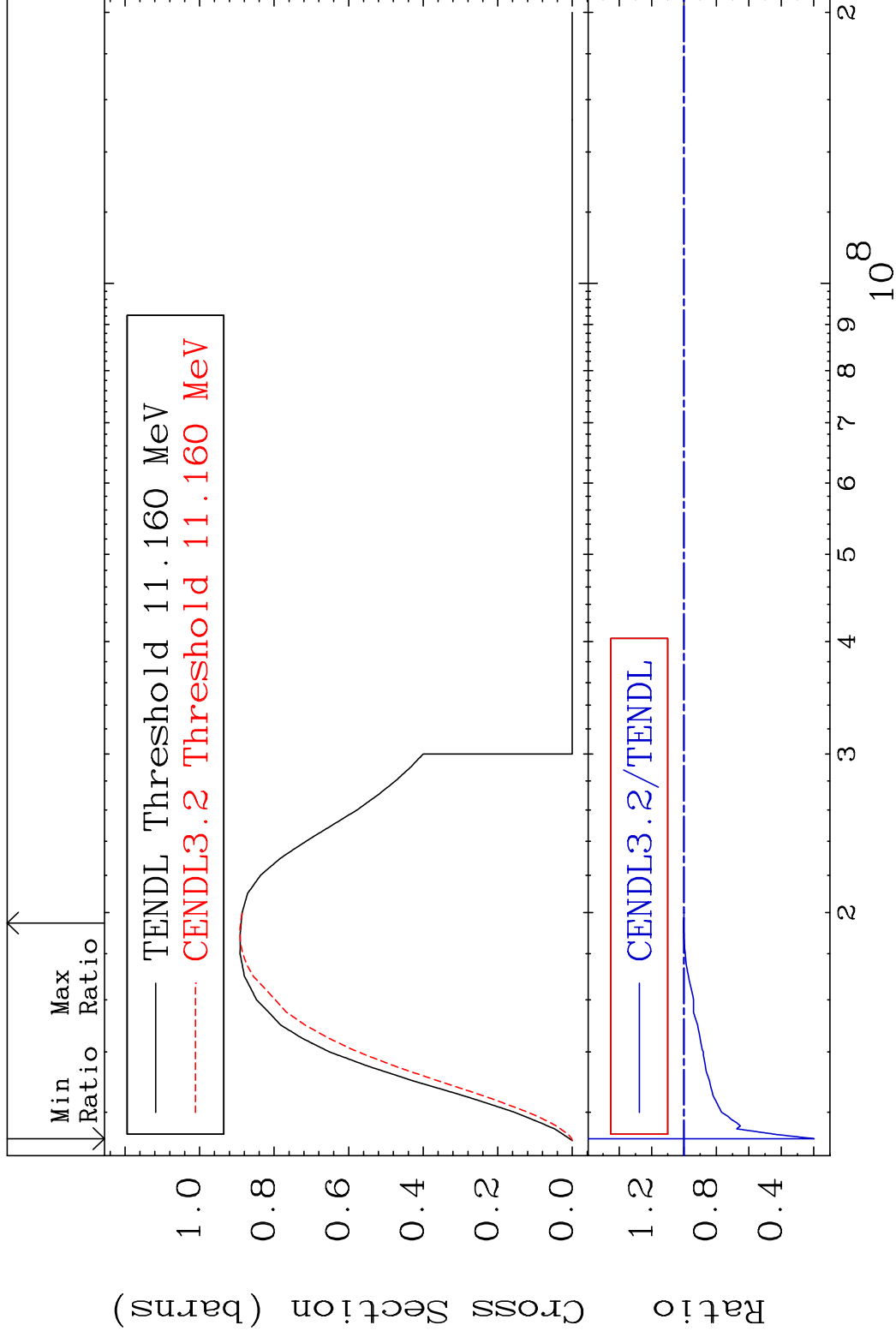


MAT 2237

(n,2n)

22-Ti-50

Cross Section -80.28 To 0.220 %



4

Incident Energy (eV)

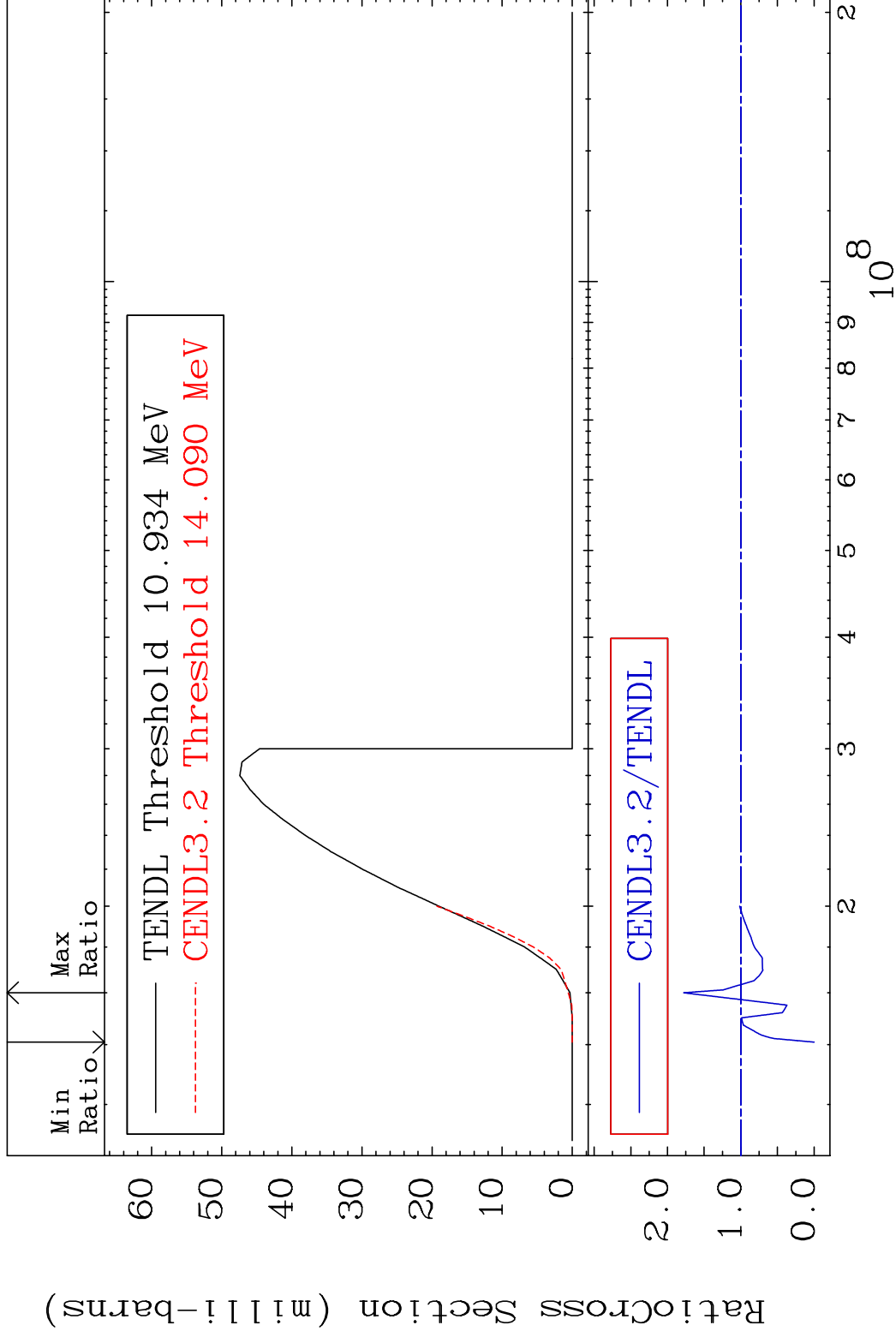
22-Ti-50

MAT 2237

(n, n')  $\alpha$

<sup>22</sup>Ti-50

Cross Section -100.0 To 77.94 %

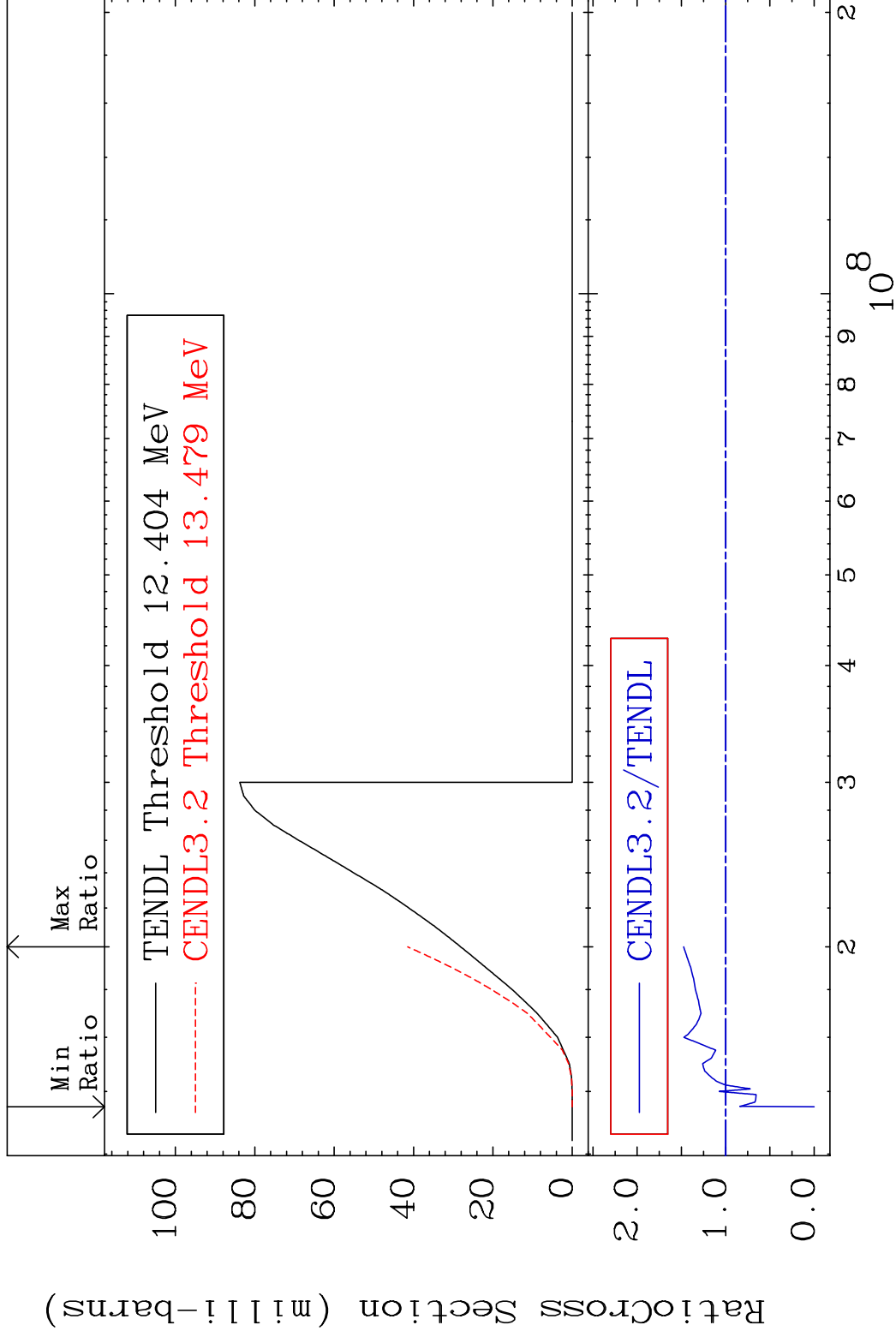


MAT 2237

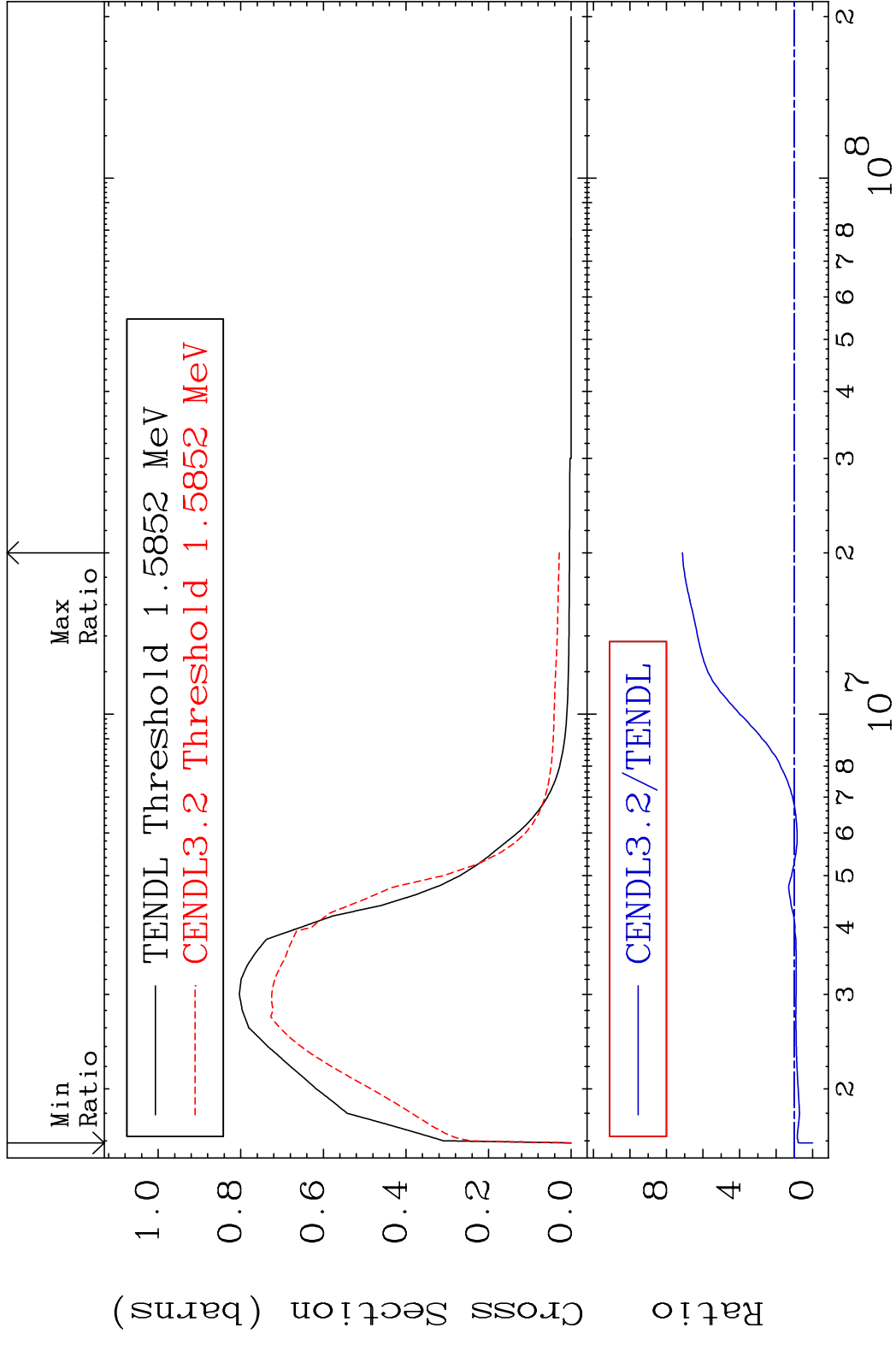
(n, n') p

<sup>22</sup>Ti-50

Cross Section -100.0 To 47.46 %

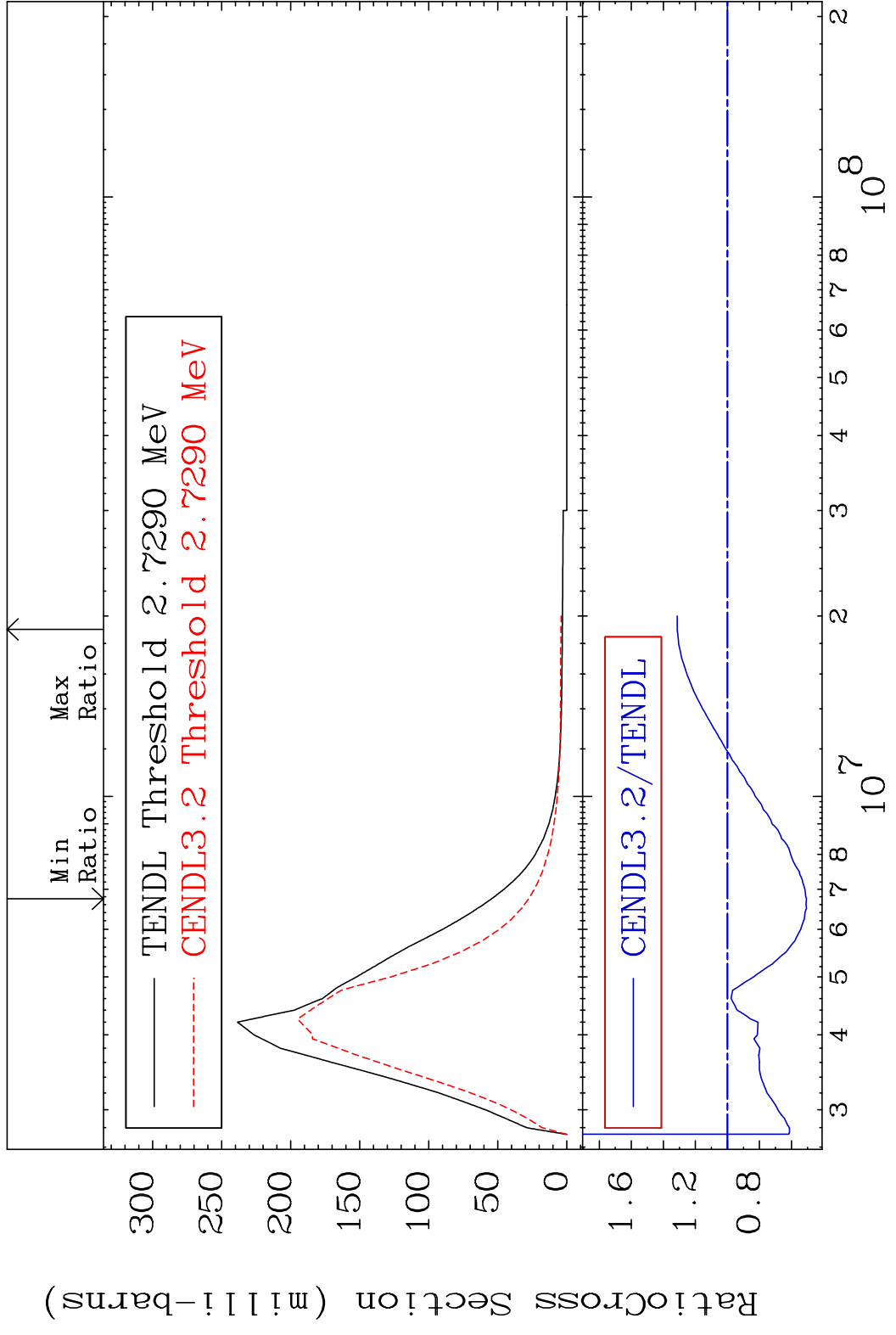


MAT 2237 MT= 51 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 613.1 %

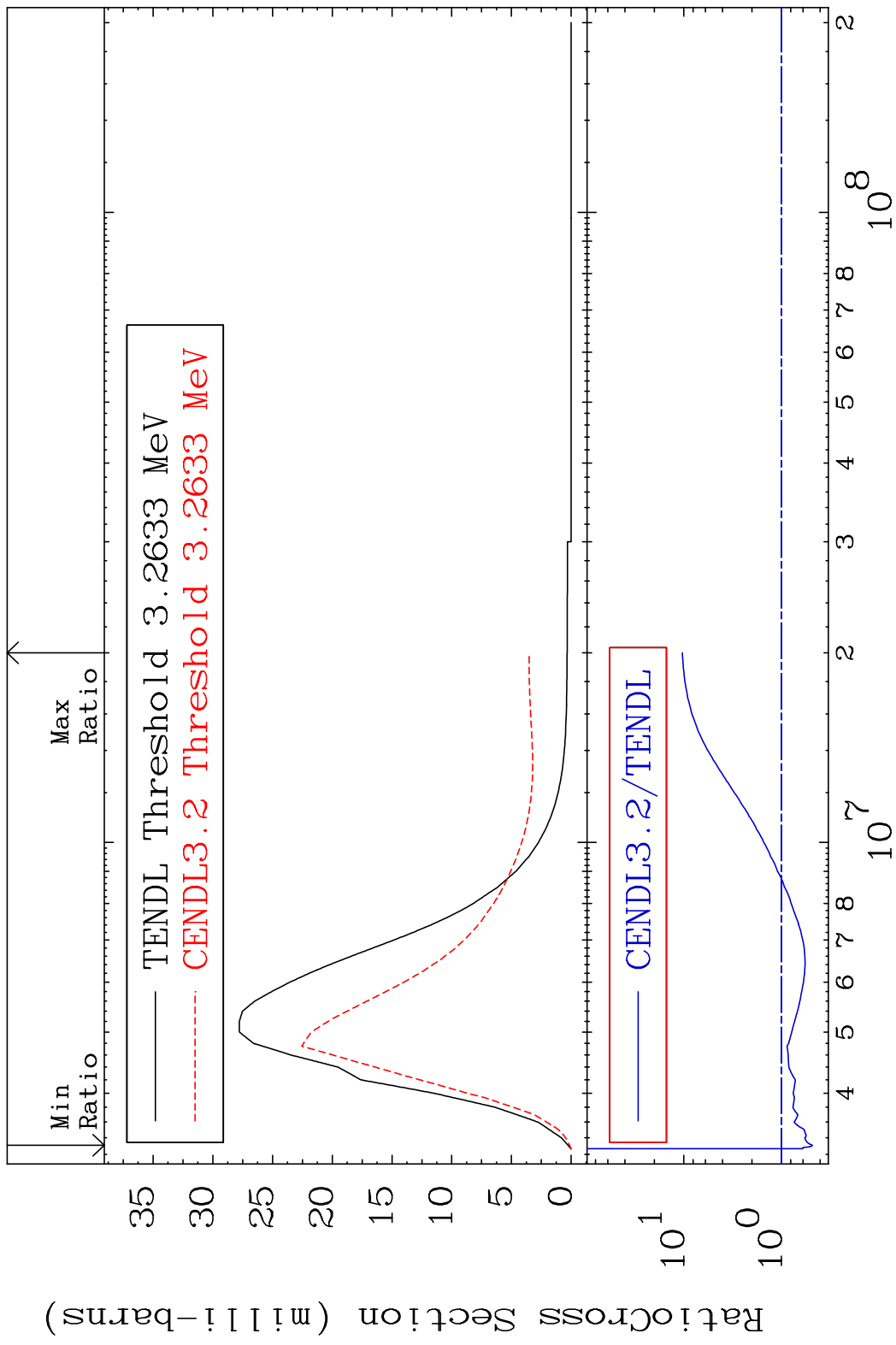




MAT 2237 MT= 52 (n, n') Level 22-Ti-50  
 Cross Section -49.30 To 31.37 %



MAT 2237 MT= 53 (n,n') Level 22-Ti-50  
 Cross Section -52.08 To 932.8 %

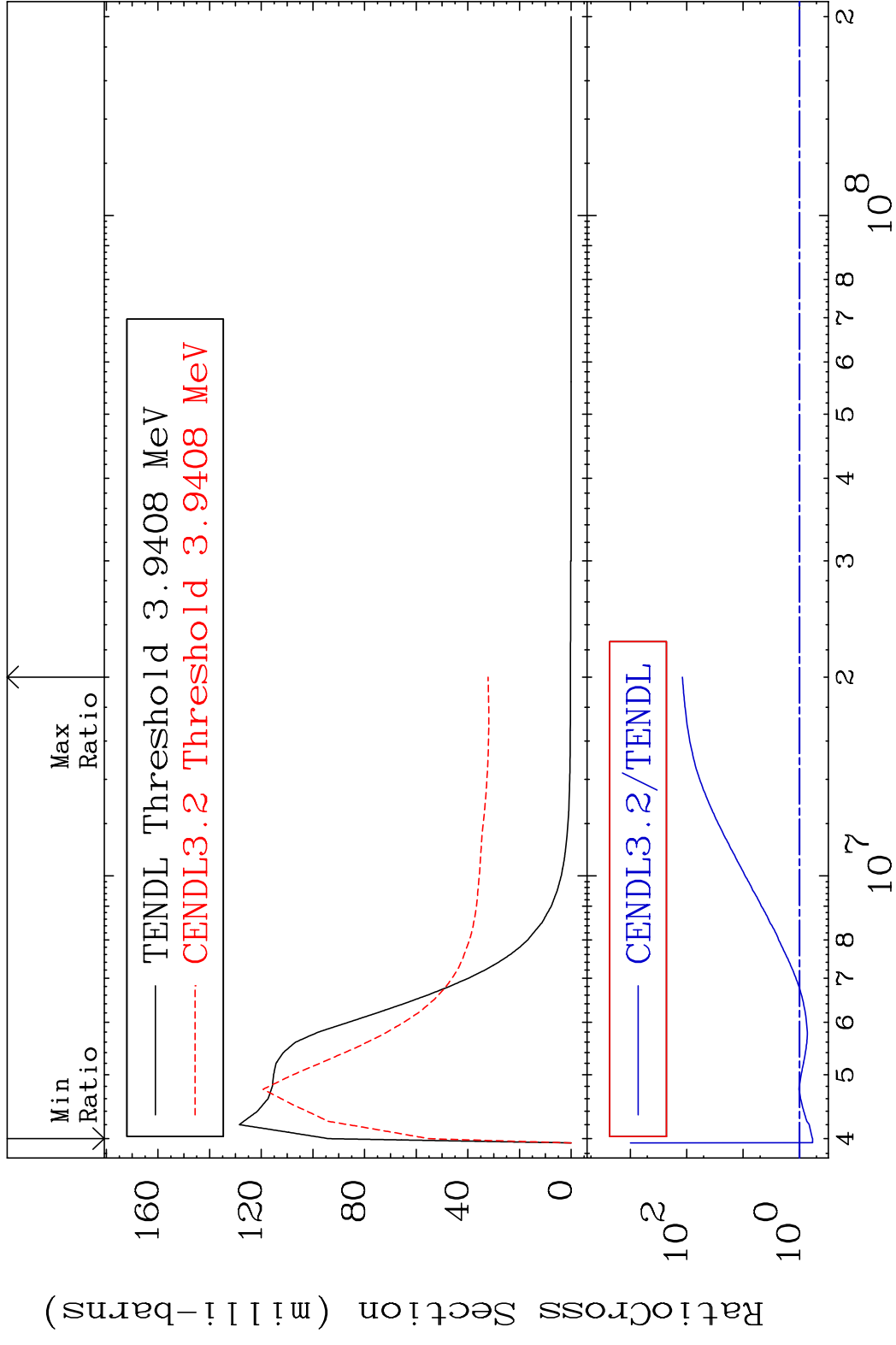


MAT 2237

MT= 54 (n,n') Level

22-Ti-50

Cross Section -41.25 To 9999. %

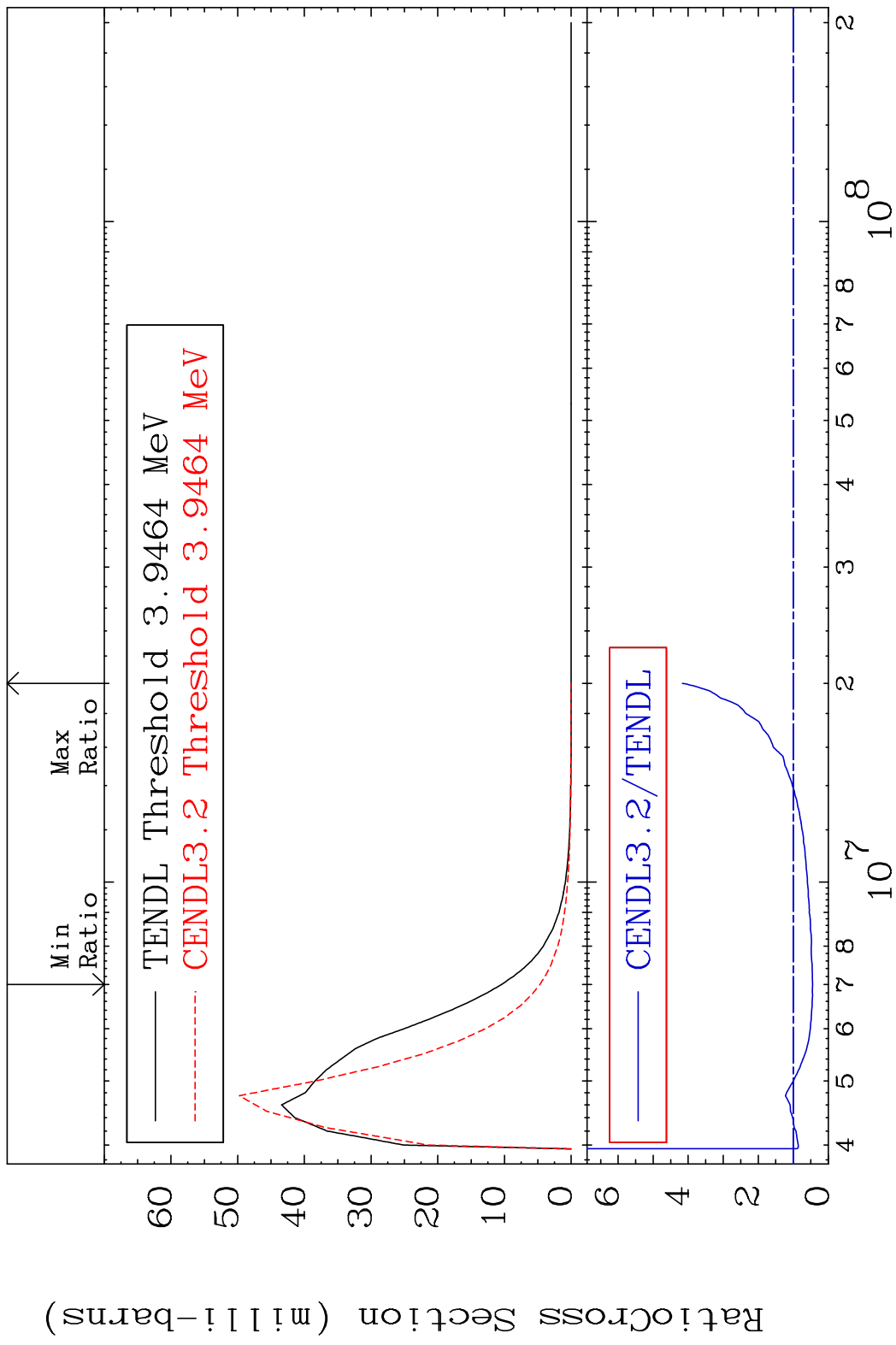


10

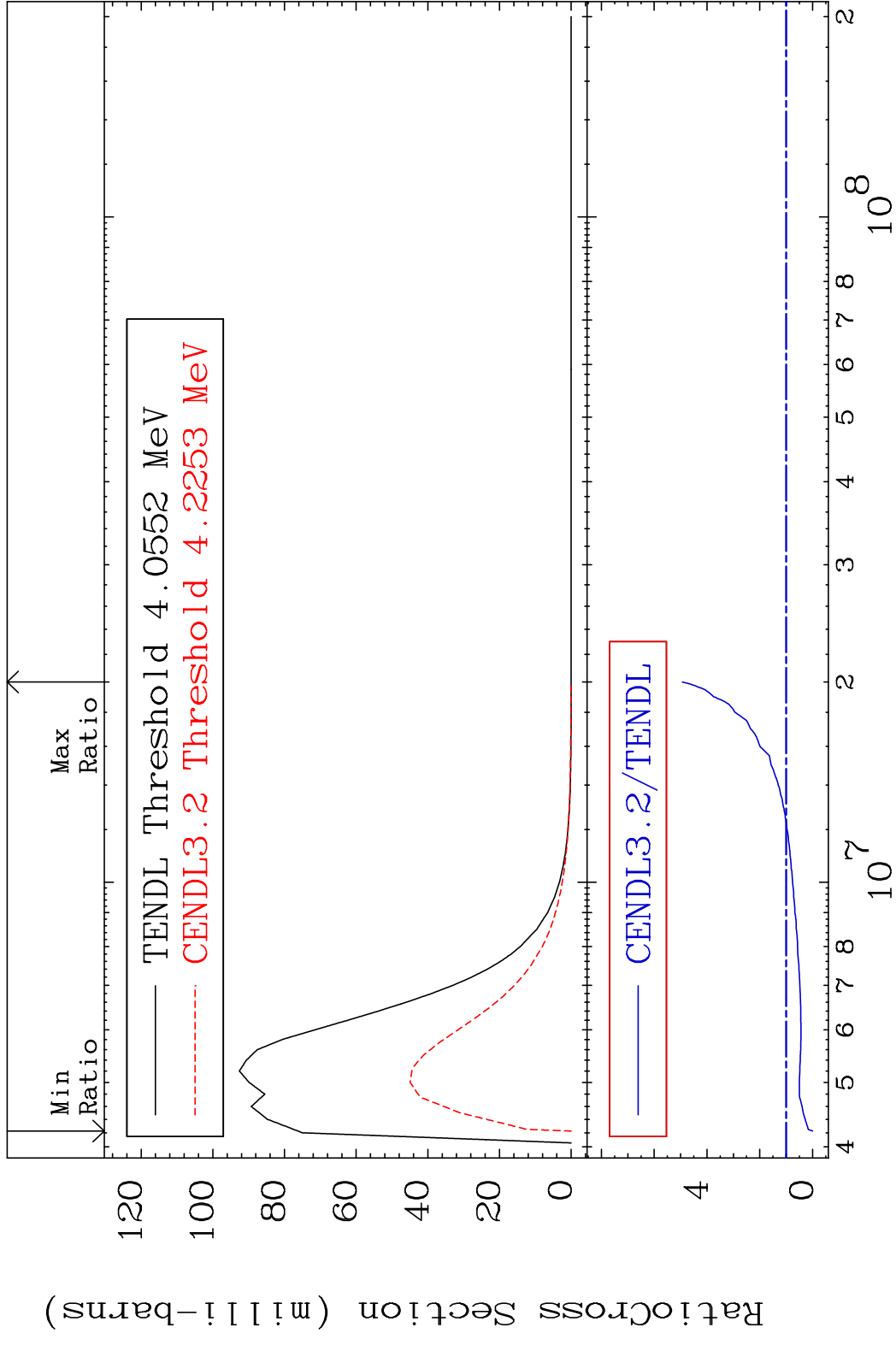
Incident Energy (eV)

22-Ti-50

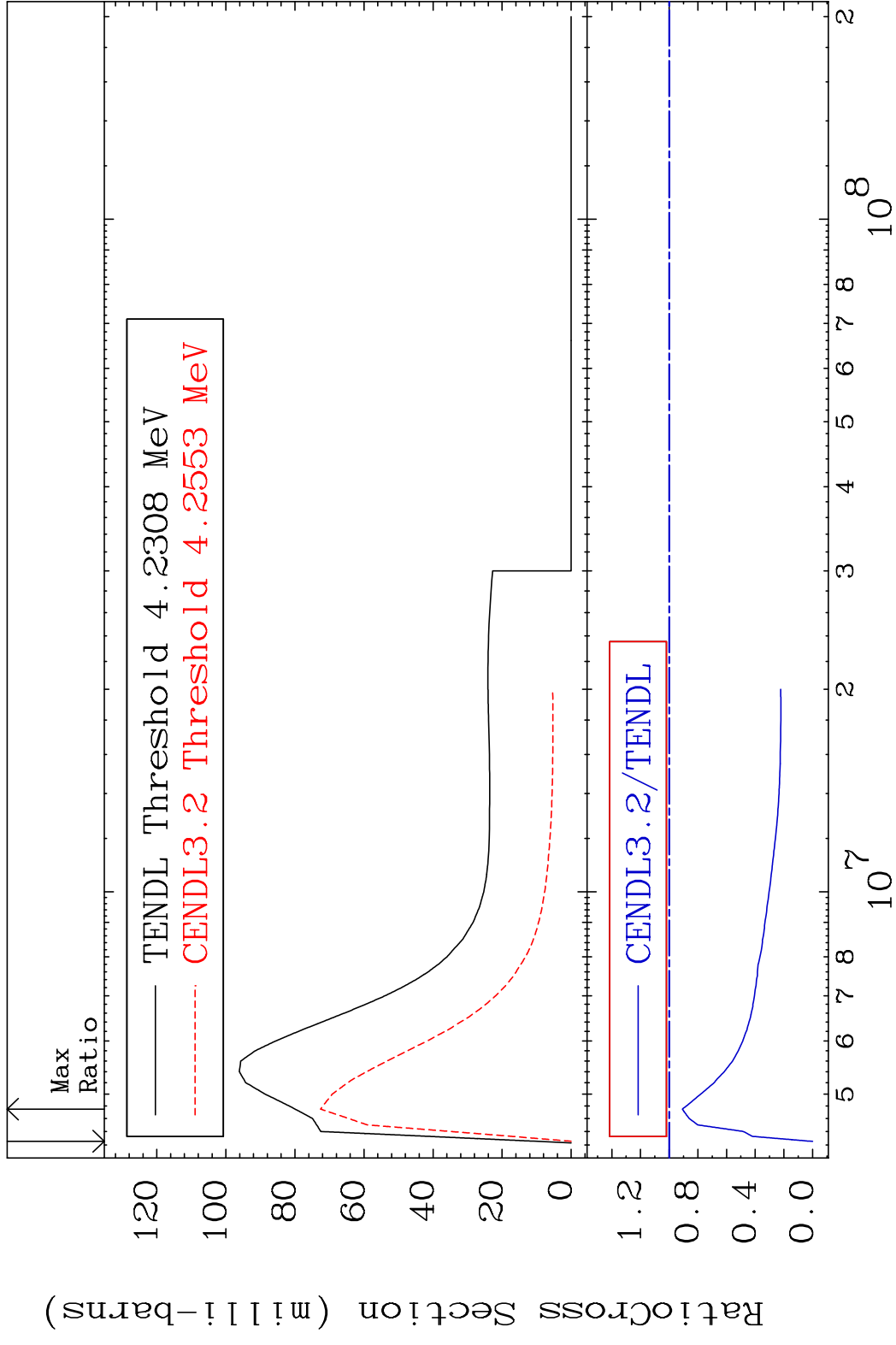
MAT 2237 MT= 55 (n, n') Level 22-Ti-50  
 Cross Section -55.13 To 316.7 %



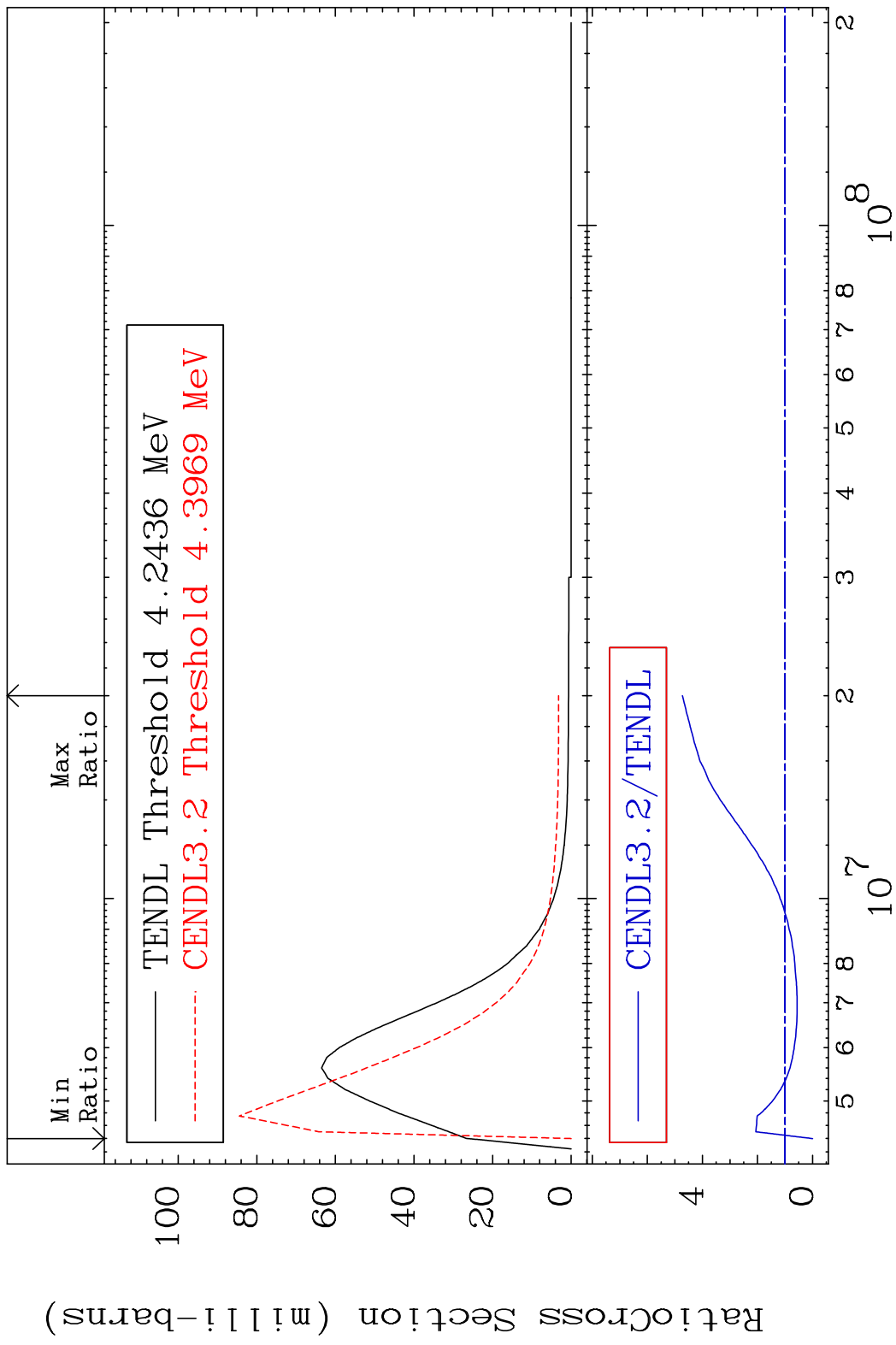
MAT 2237 MT= 56 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 393.3 %



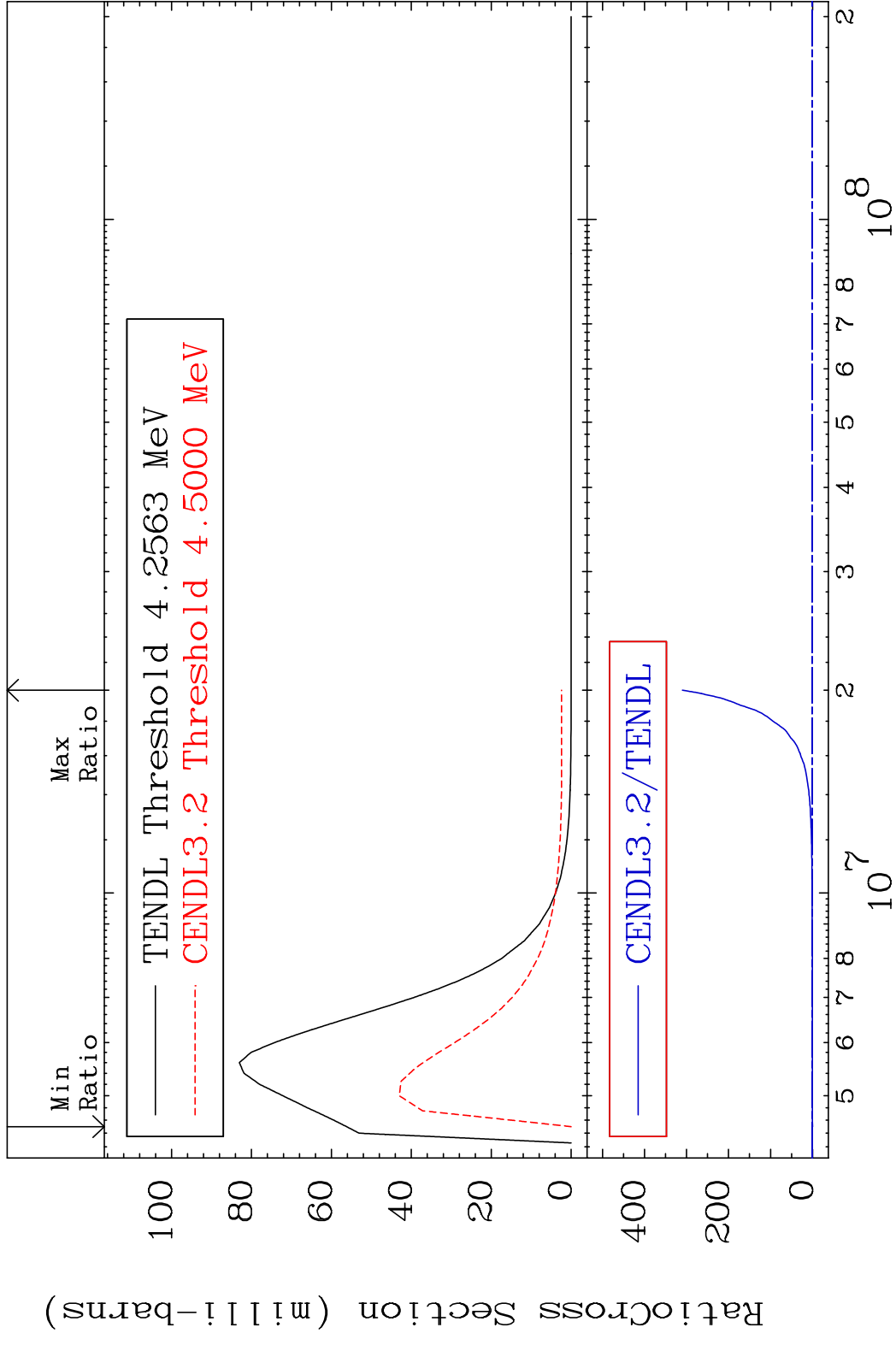
MAT 2237 MT= 57 (n,n') Level 22-Ti-50  
 Cross Section -100.0 To -9.188%



MAT 2237 MT= 58 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 372.8 %



MAT 2237 MT= 59 (n, n') Level 22-Ti-50  
 Cross Section -100.0 To 9999. %



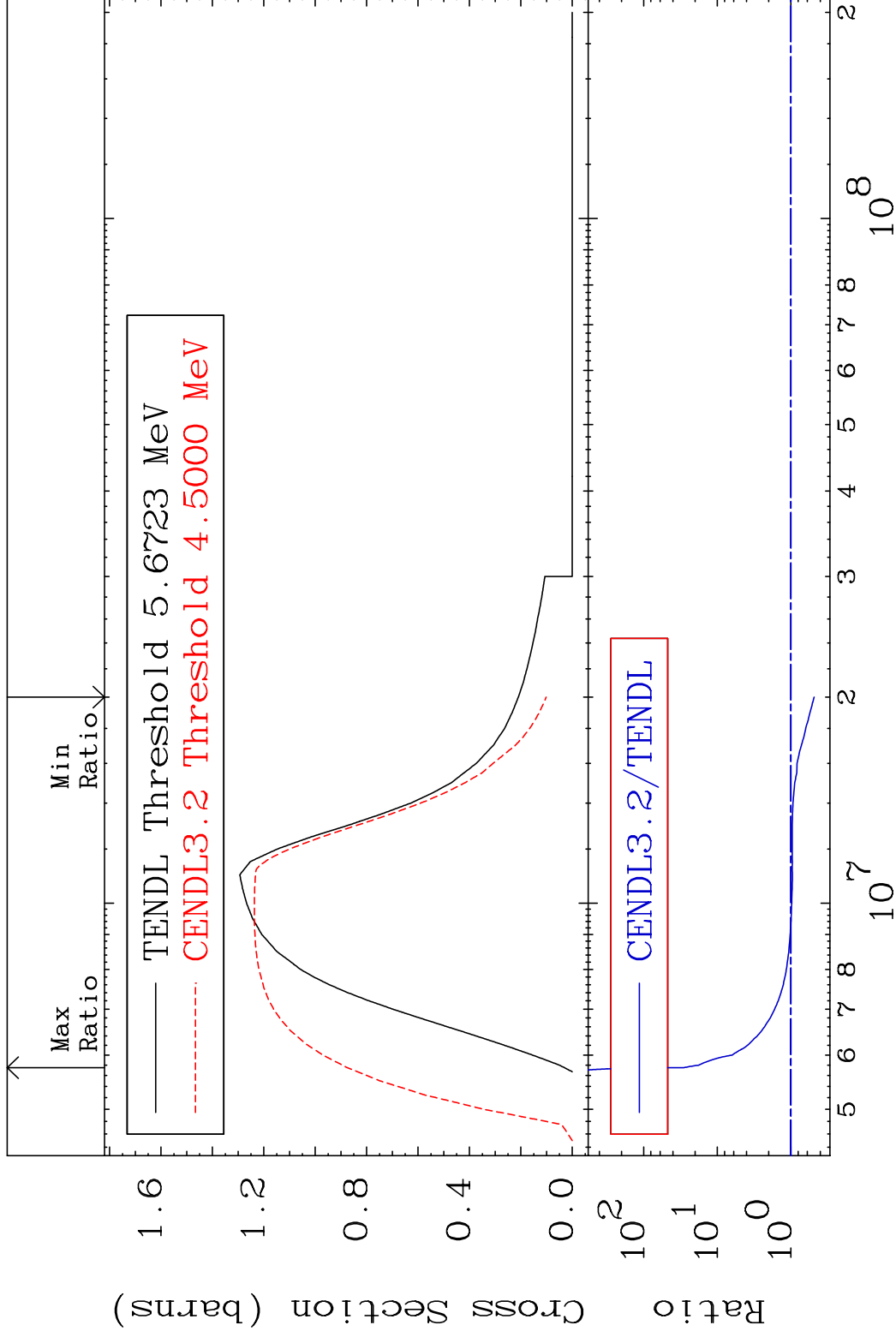


MAT 2237

(n, n') Continuum

22-Ti-50

Cross Section -51.57 To 2771. %



16

Incident Energy (eV)

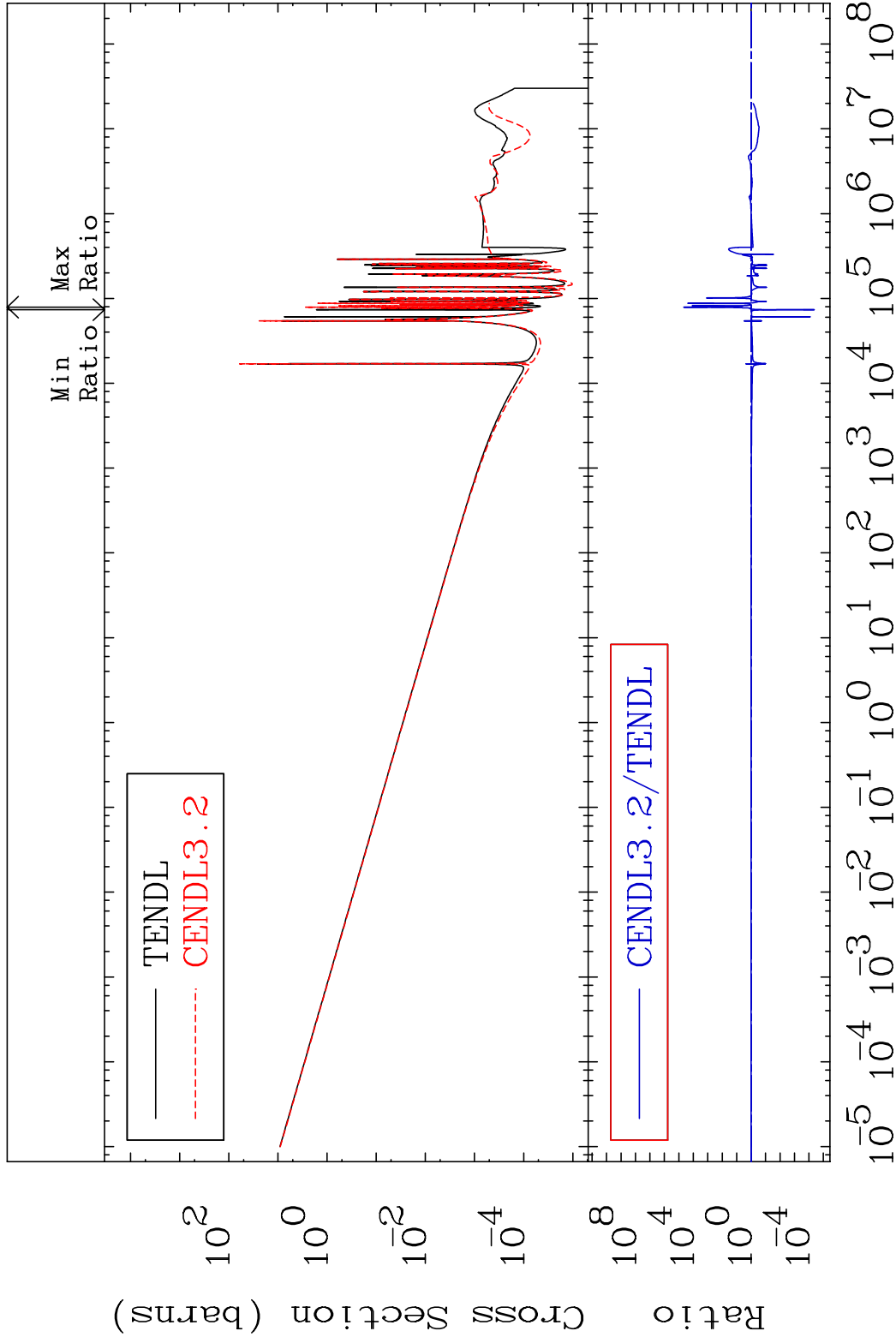
22-Ti-50

MAT 2237

(n,  $\gamma$ )

22-Ti-50

Cross Section -100.0 To 9999. %

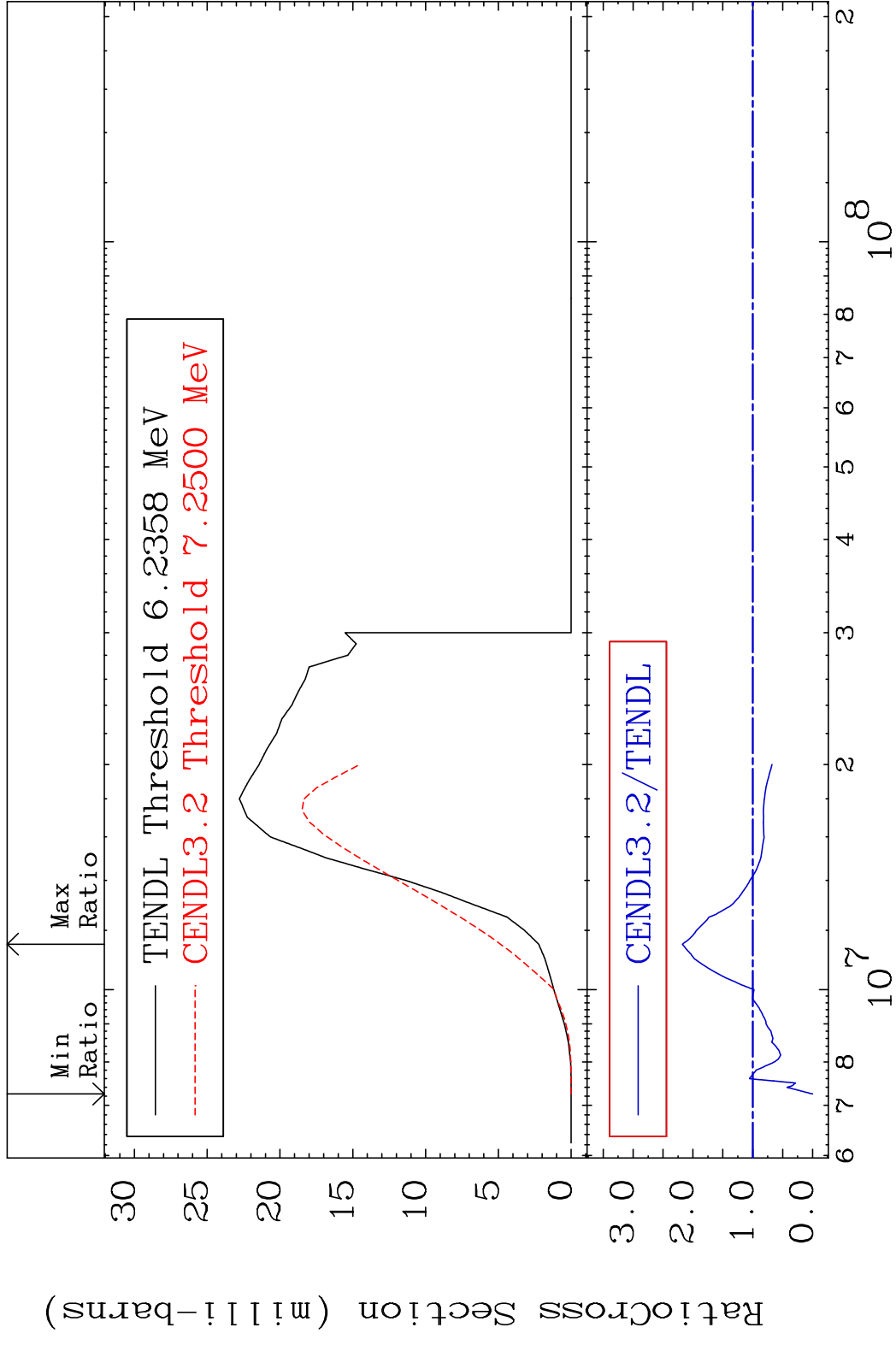


17

Incident Energy (eV)

22-Ti-50

MAT 2237 (n,p) 22-Ti-50  
 Cross Section -100.0 To 117.7 %

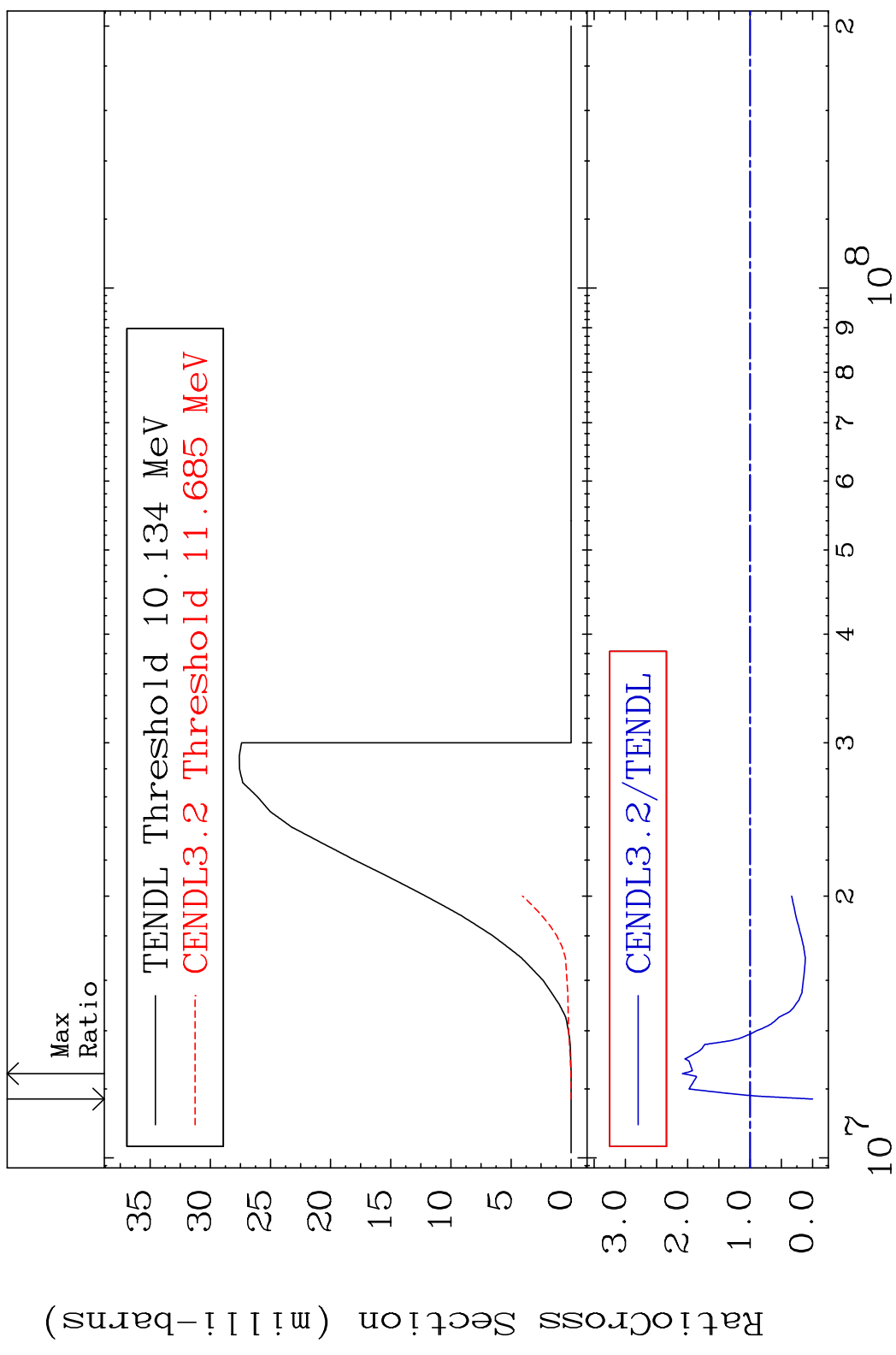


MAT 2237

(n, d)

22-Ti-50

Cross Section -100.0 To 108.6 %



19

Incident Energy (eV)

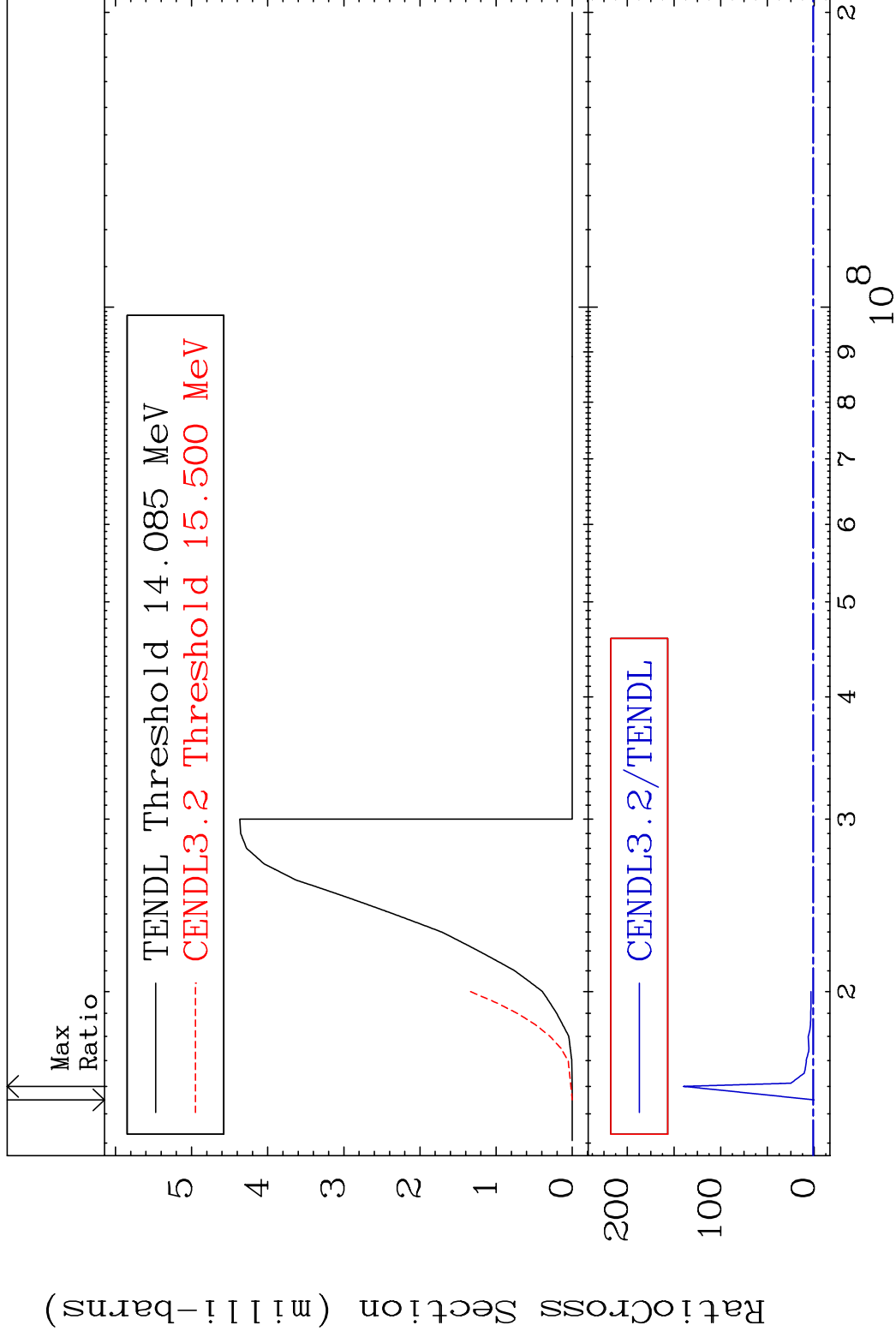
22-Ti-50

MAT 2237

(n, t)

22-Ti-50

Cross Section -100.0 To 9999. %



20

Incident Energy (eV)

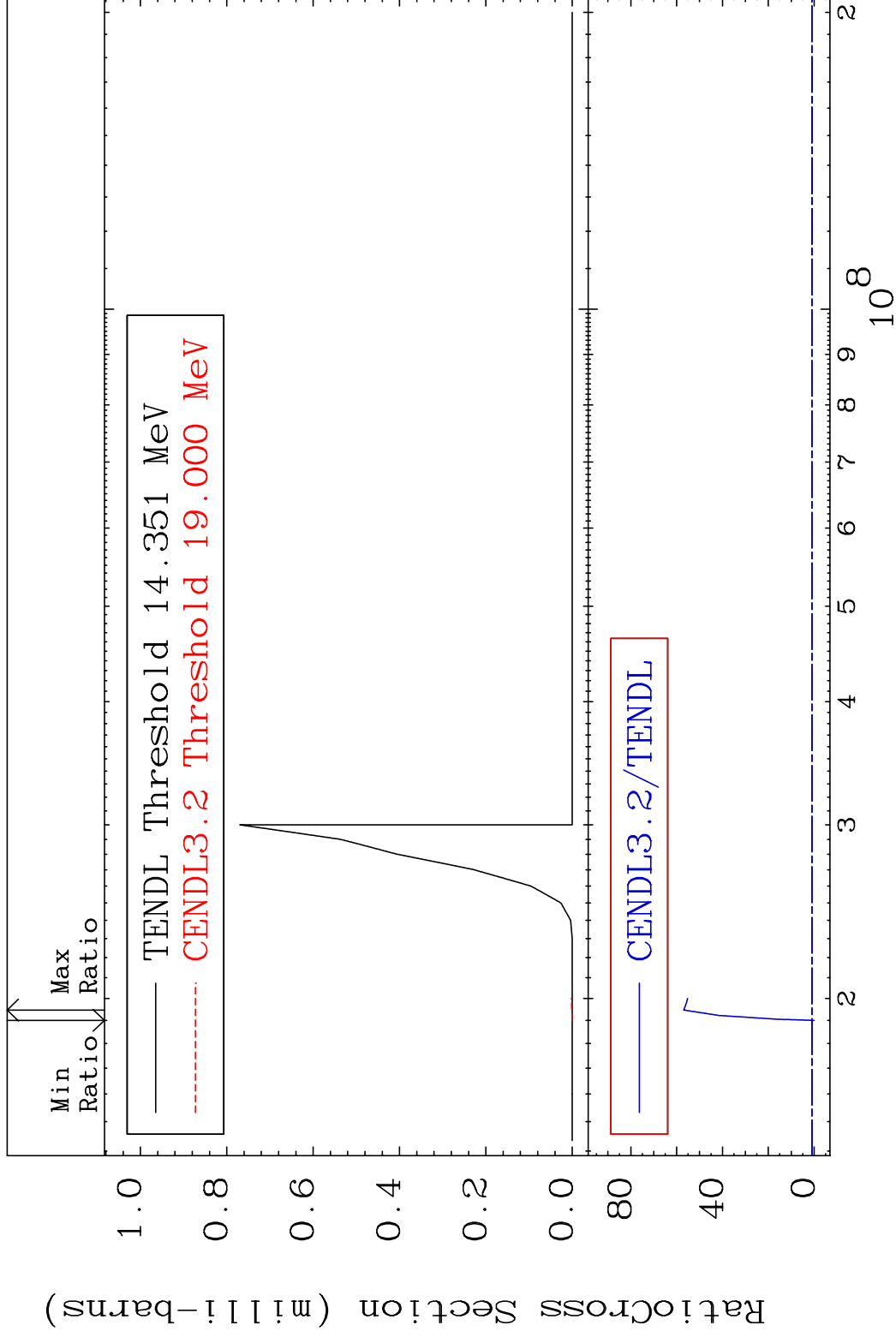
22-Ti-50

MAT 2237

(n, He-3)

22-Ti-50

Cross Section -100.0 To 5595. %



21

Incident Energy (eV)

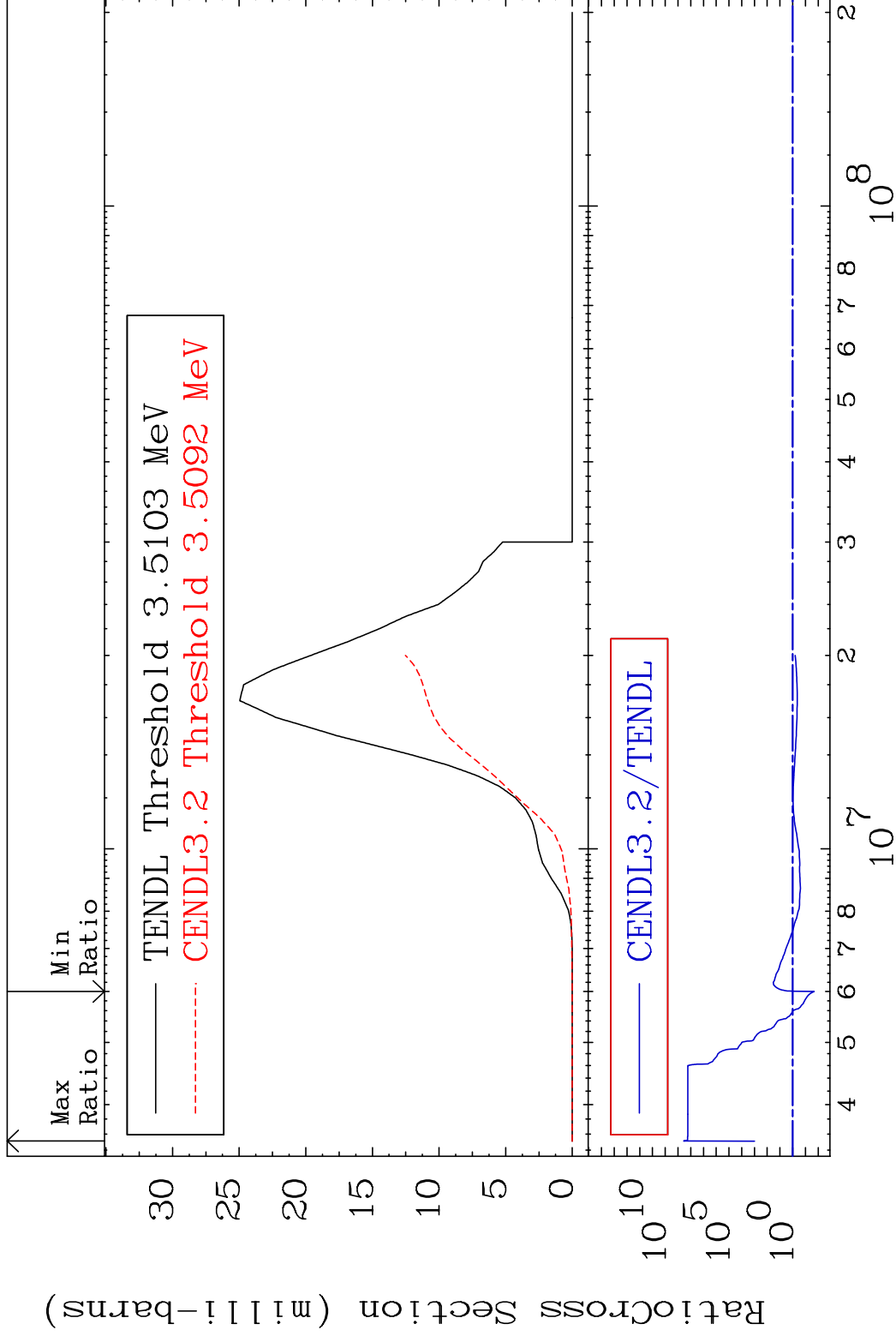
22-Ti-50

MAT 2237

(n,  $\alpha$ )

22-Ti-50

Cross Section -97.91 To 9999. %



22

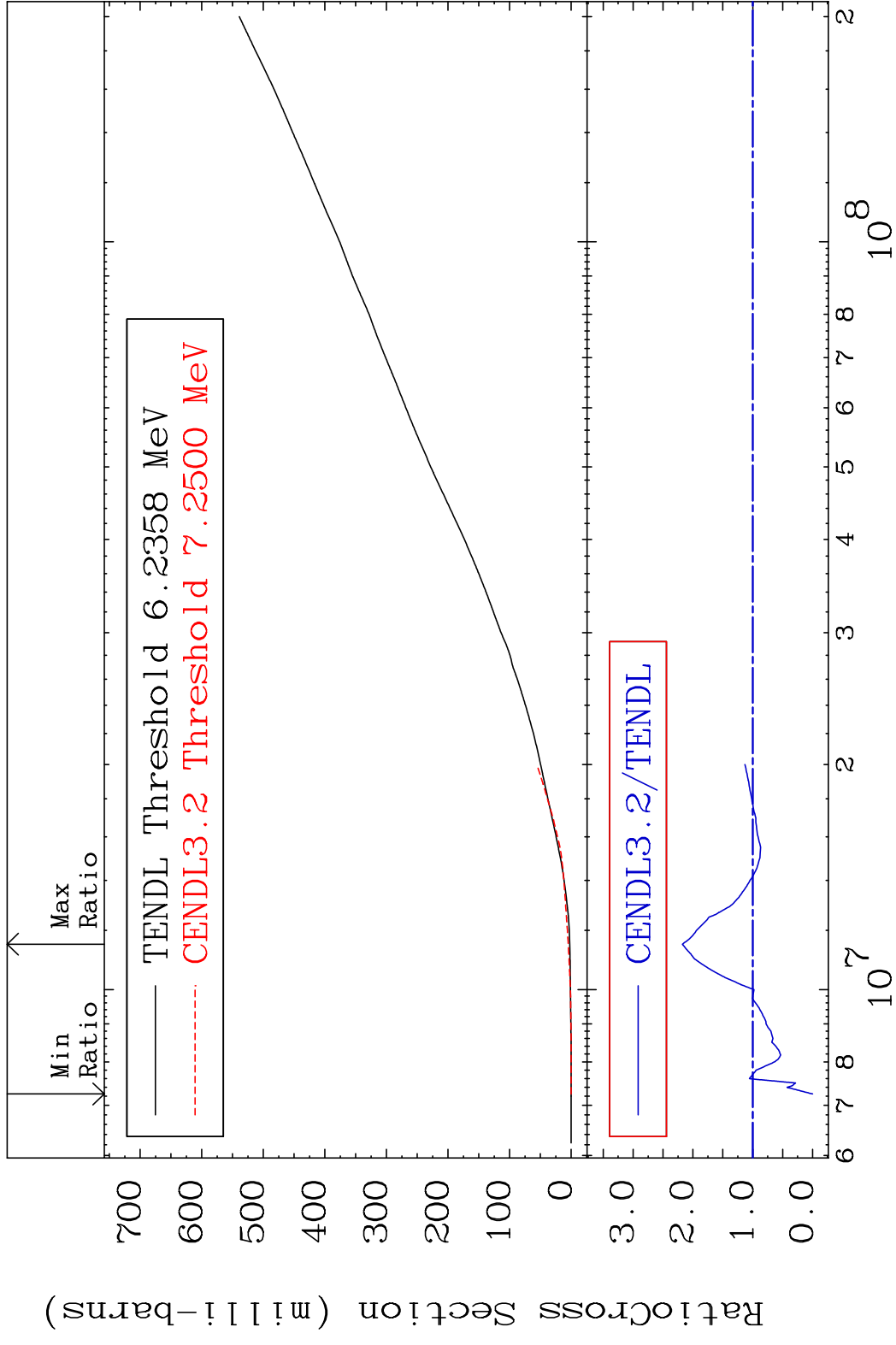
Incident Energy (eV)

22-Ti-50

MAT 2237

Hydrogen Production  
Cross Section -100.0 To 117.7 %

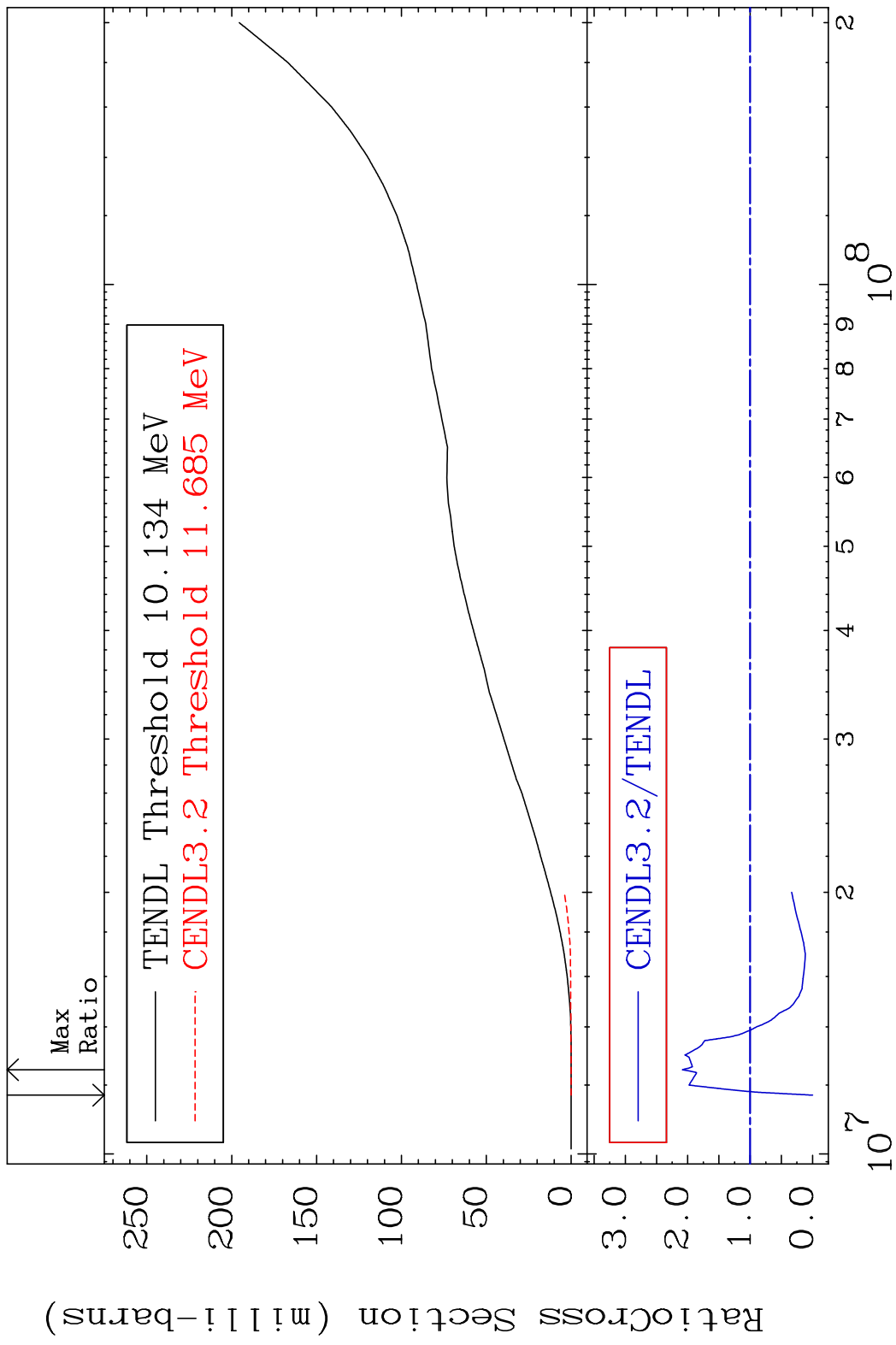
22-Ti-50



23



MAT 2237 Deuterium Production  $^{22}\text{Ti-50}$   
 Cross Section -100.0 To 108.6 %



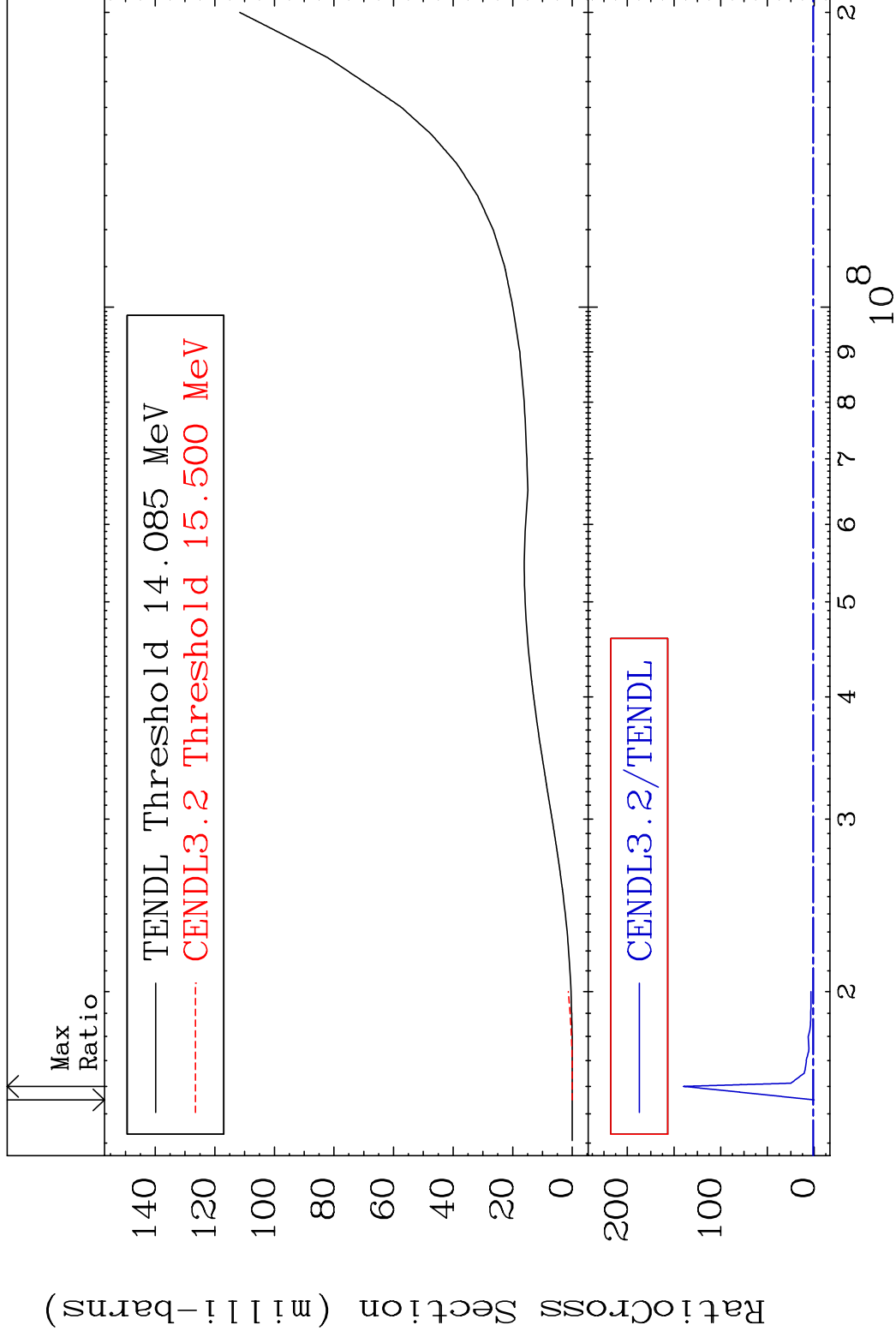
24  $^{22}\text{Ti-50}$

MAT 2237

Tritium Production

<sup>22</sup>Ti-50

Cross Section -100.0 To 9999. %



25

Incident Energy (eV)

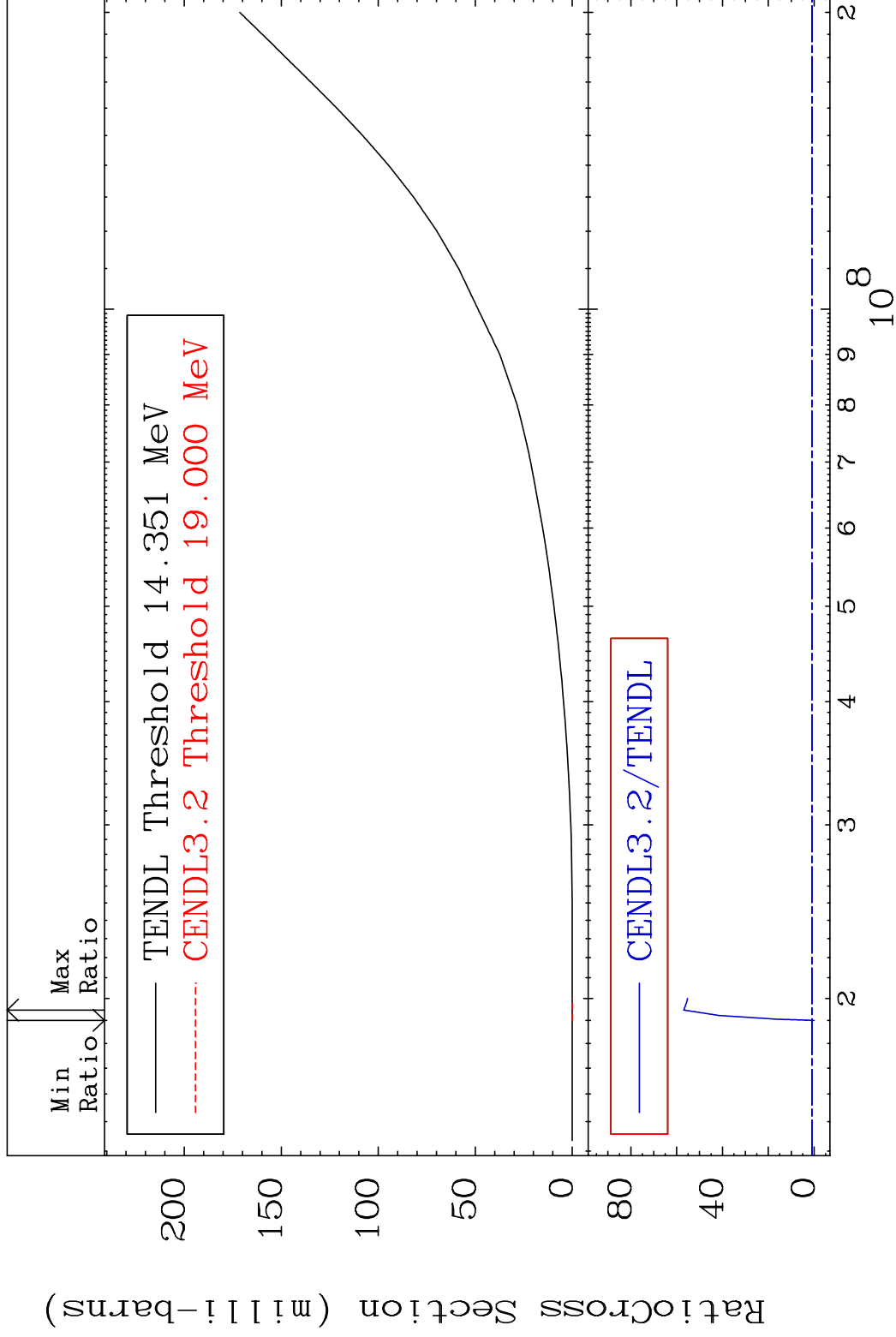
<sup>22</sup>Ti-50

MAT 2237

He-3 Production

22-Ti-50

Cross Section -100.0 To 5595. %



26

Incident Energy (eV)

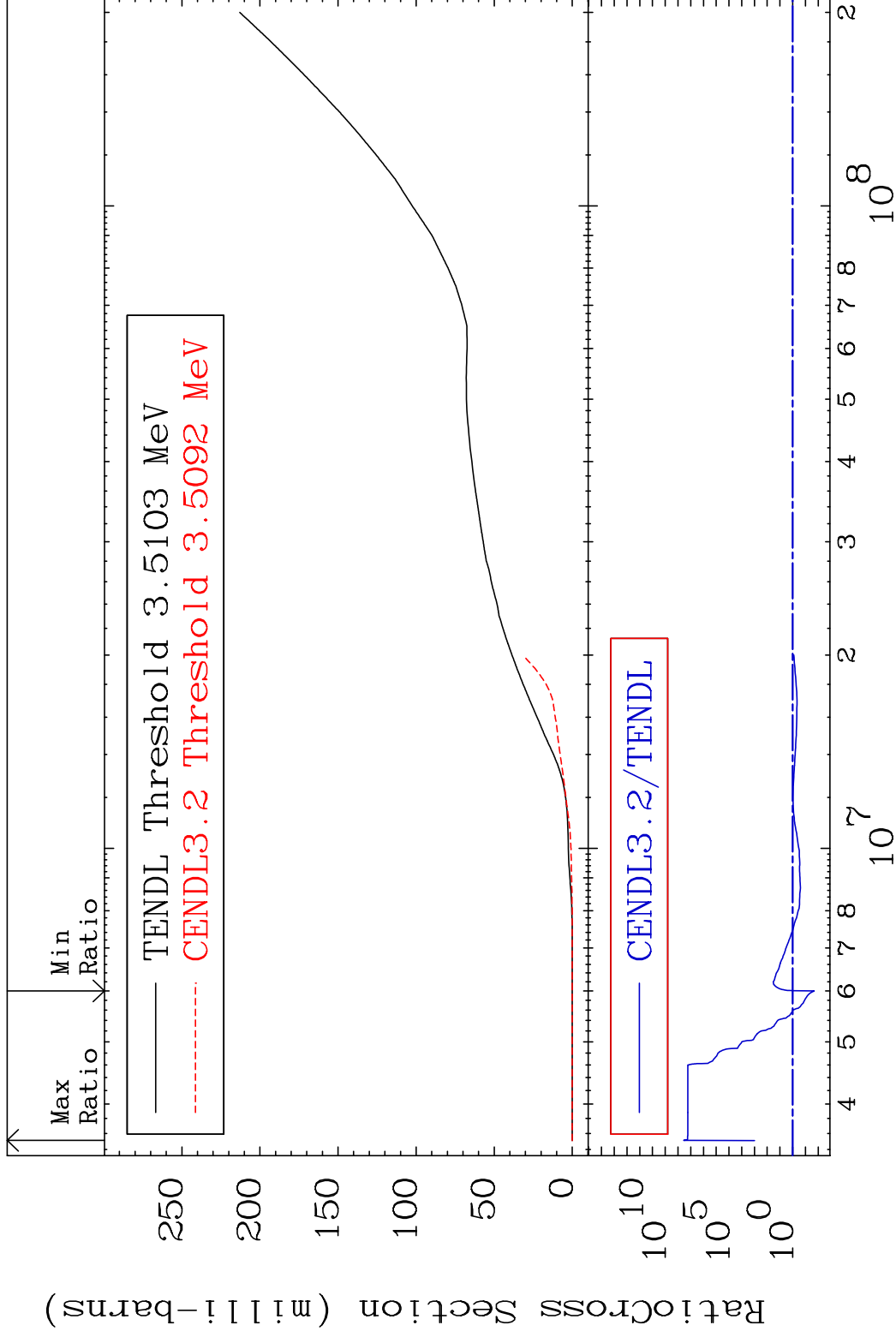
22-Ti-50

MAT 2237

He-4 Production

22-Ti-50

Cross Section -97.91 To 9999. %

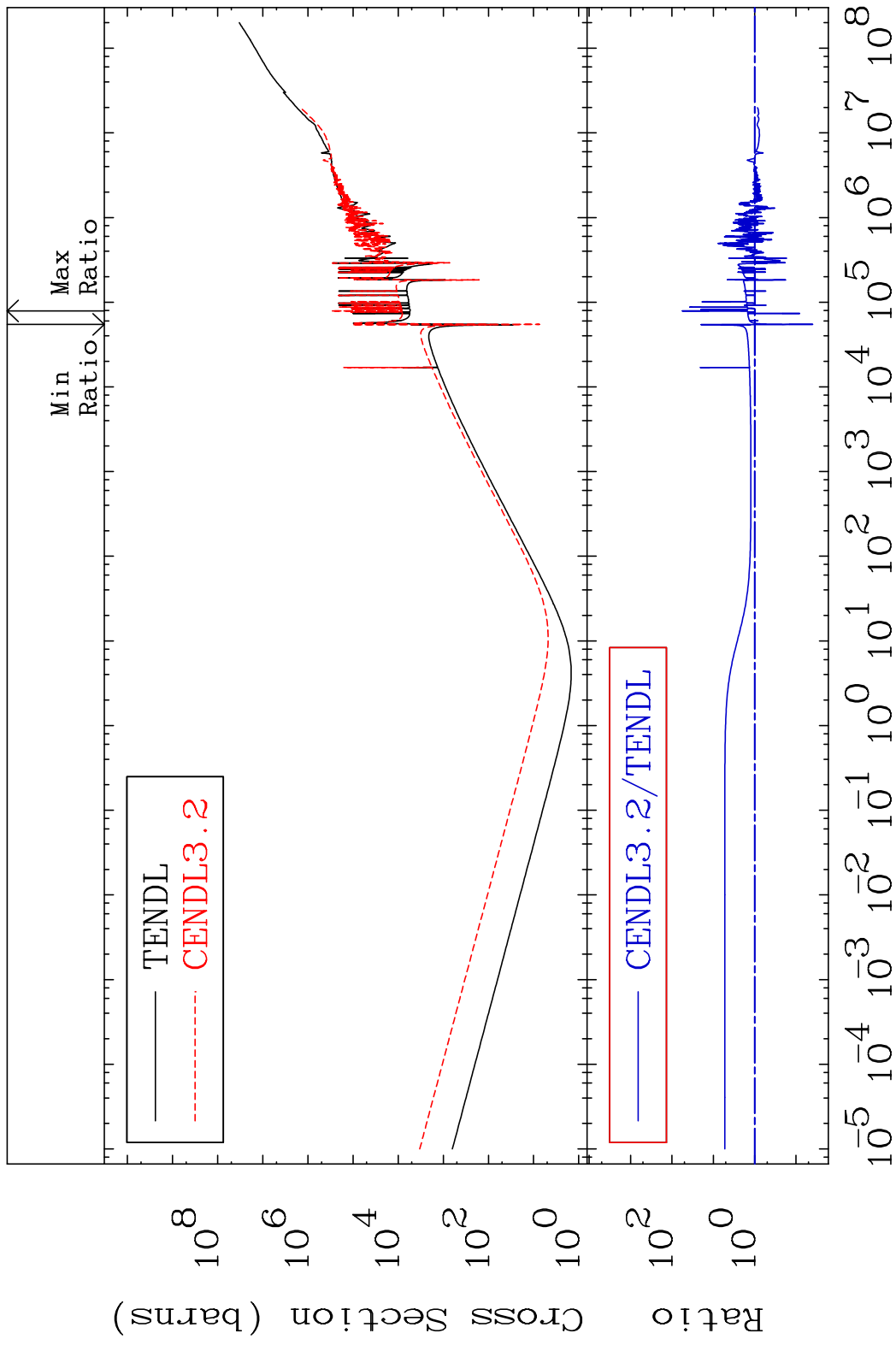


27

Incident Energy (eV)

22-Ti-50

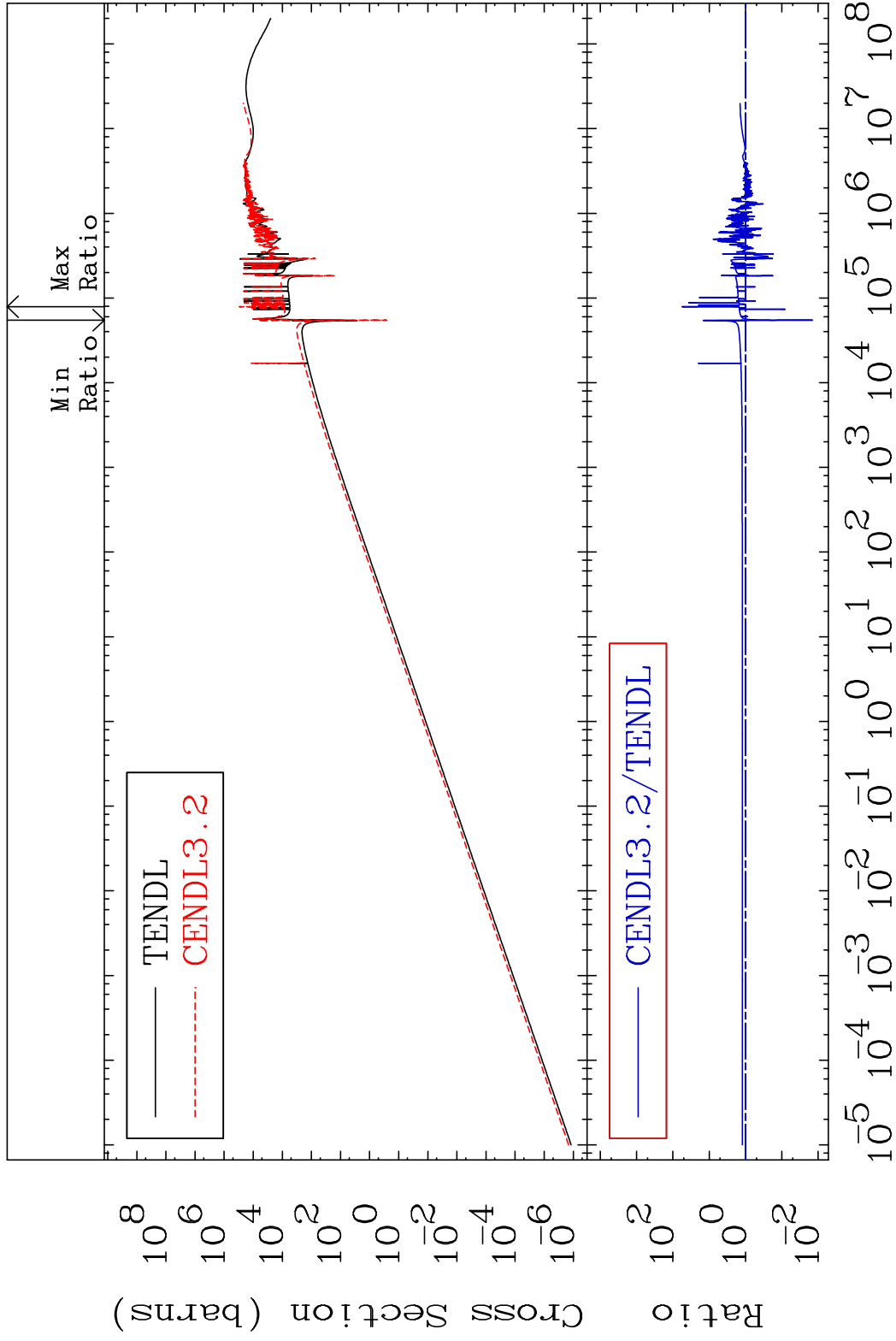
MAT 2237 Kerma total (eV-barns) 22-Ti-50  
 Cross Section -96.01 To 5496. %



MAT 2237

Kerma elastic  
Cross Section -98.58 To 5394. %

22-Ti-50

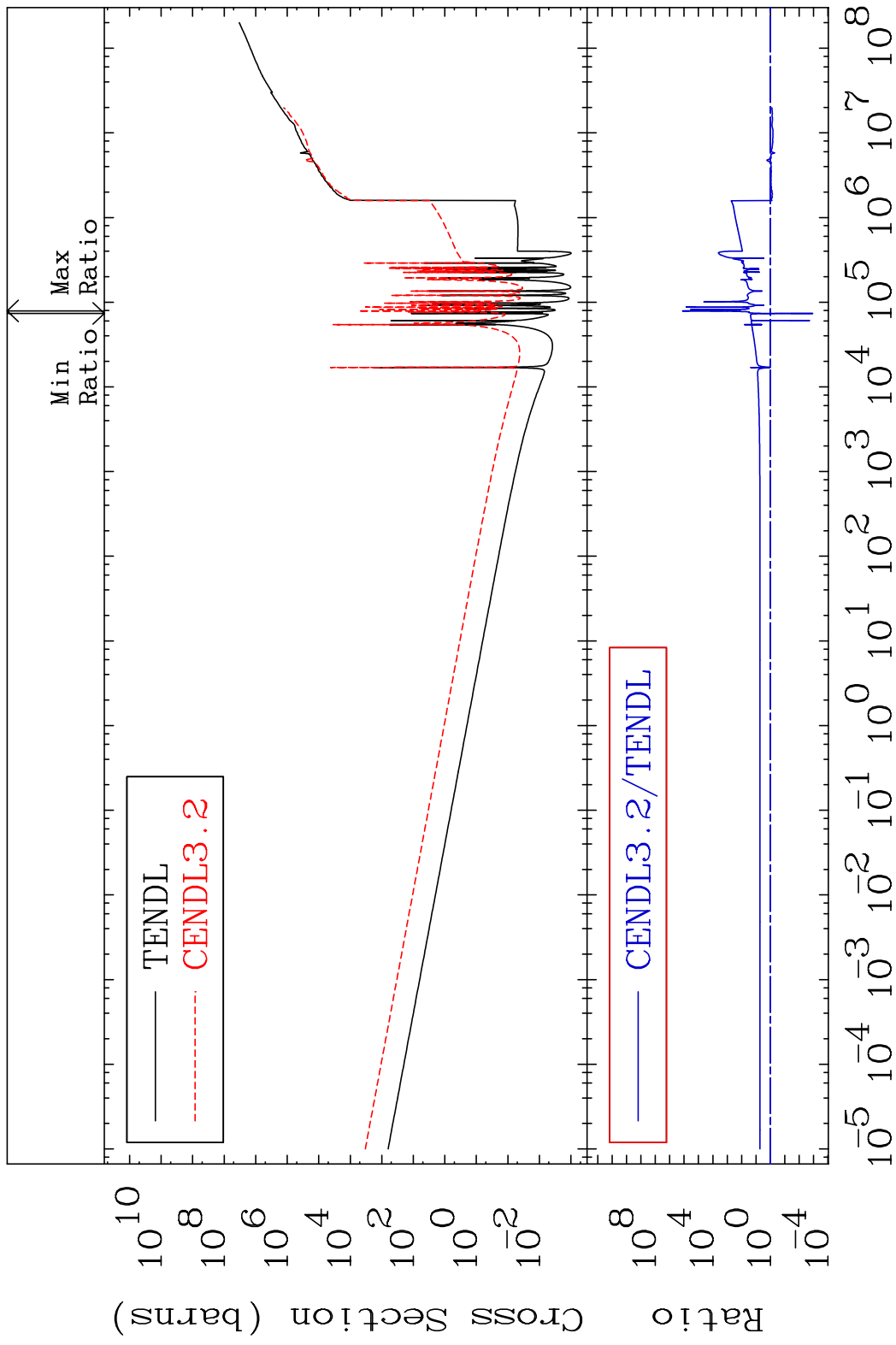


29

Incident Energy (eV)

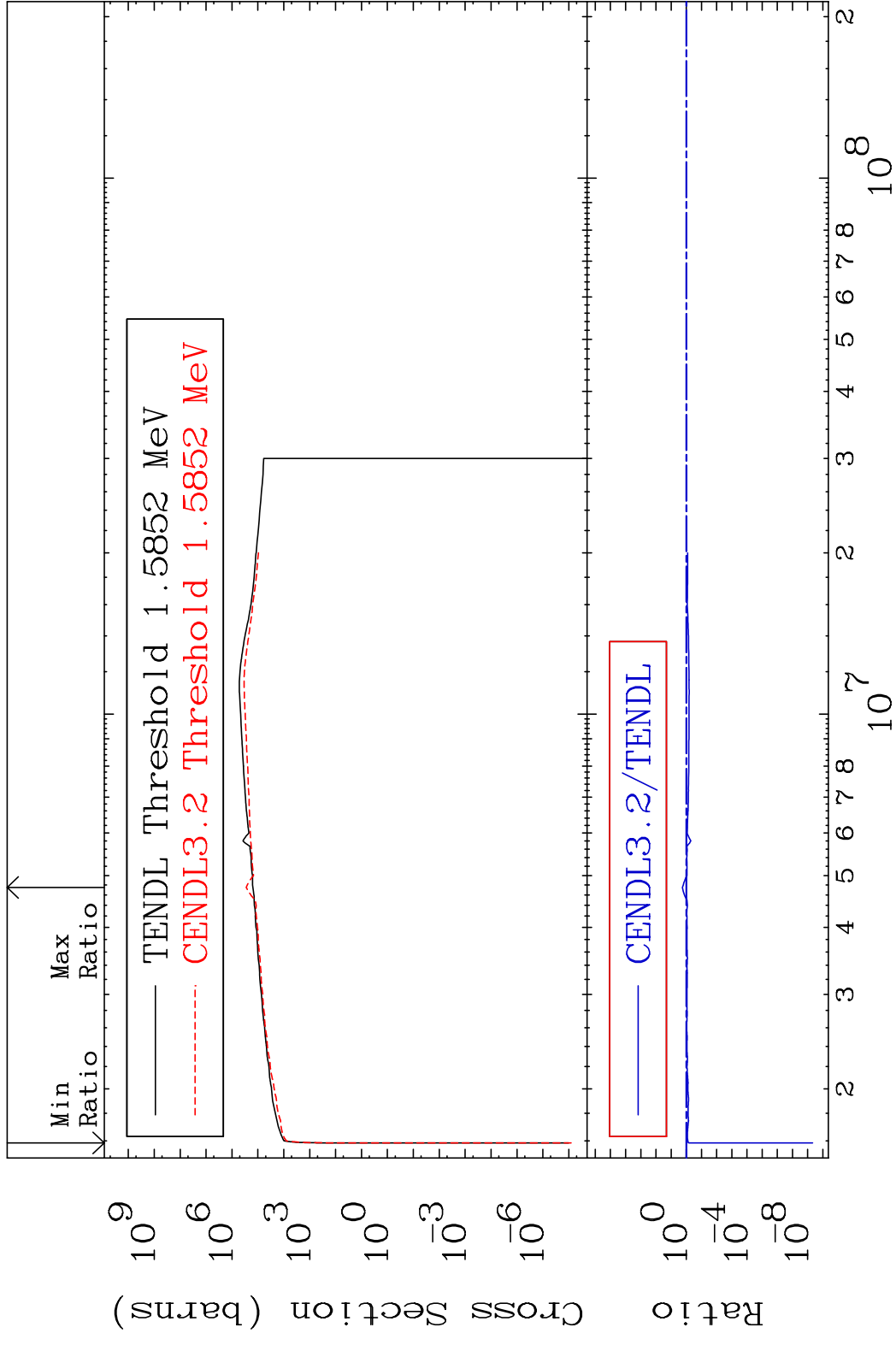
22-Ti-50

MAT 2237 Kerma non-elastic (all but mt2) 22-Ti-50  
 Cross Section -99.88 To 9999. %



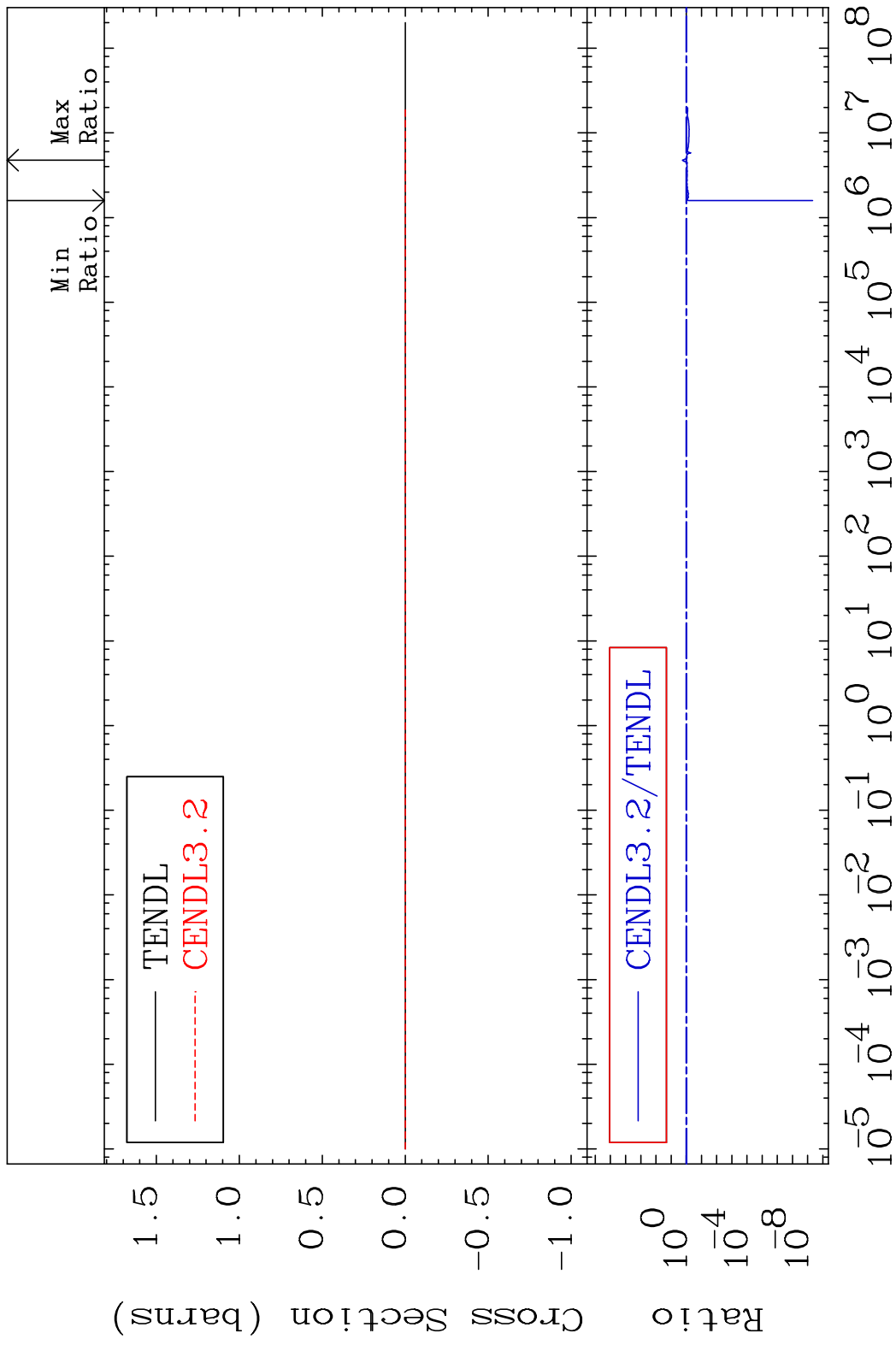
30 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma inelastic (mt51-91) 22-Ti-50  
 Cross Section -100.0 To 81.85 %



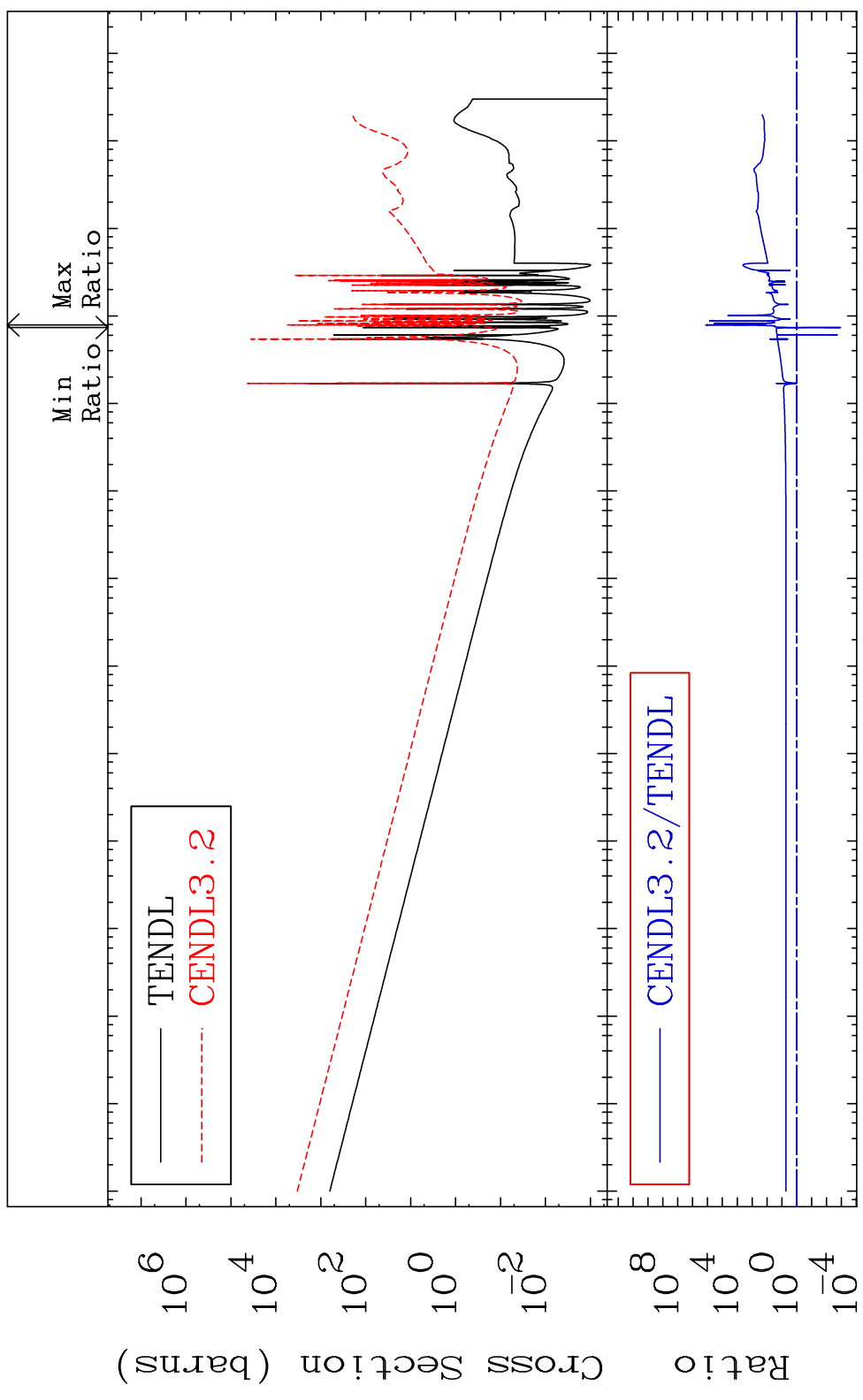


MAT 2237 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-50  
 Cross Section -100.0 To 81.85 %



MAT 2237

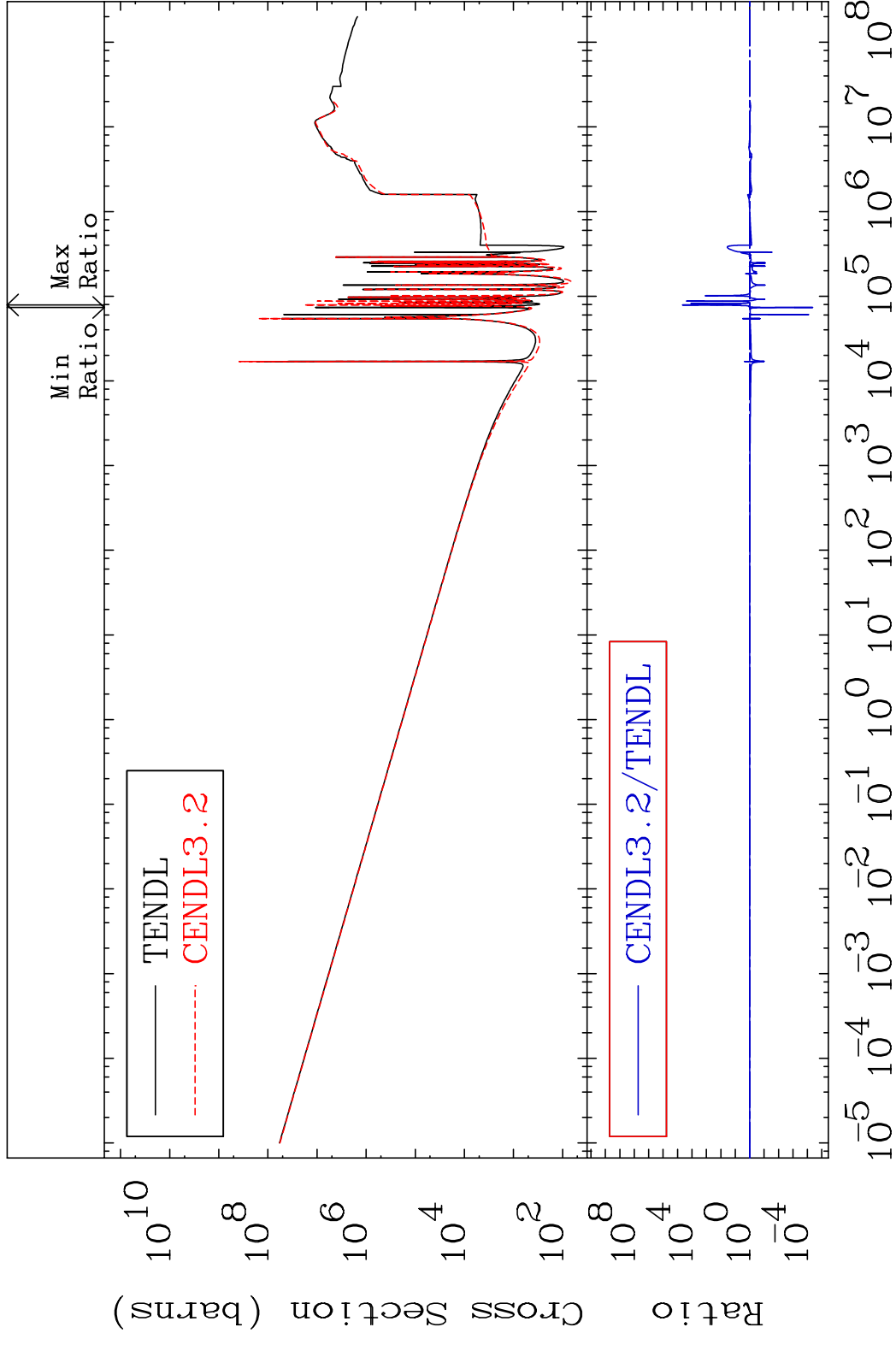
Kerma capture (mt102) 22-Ti-50  
Cross Section -99.88 To 9999. %



33

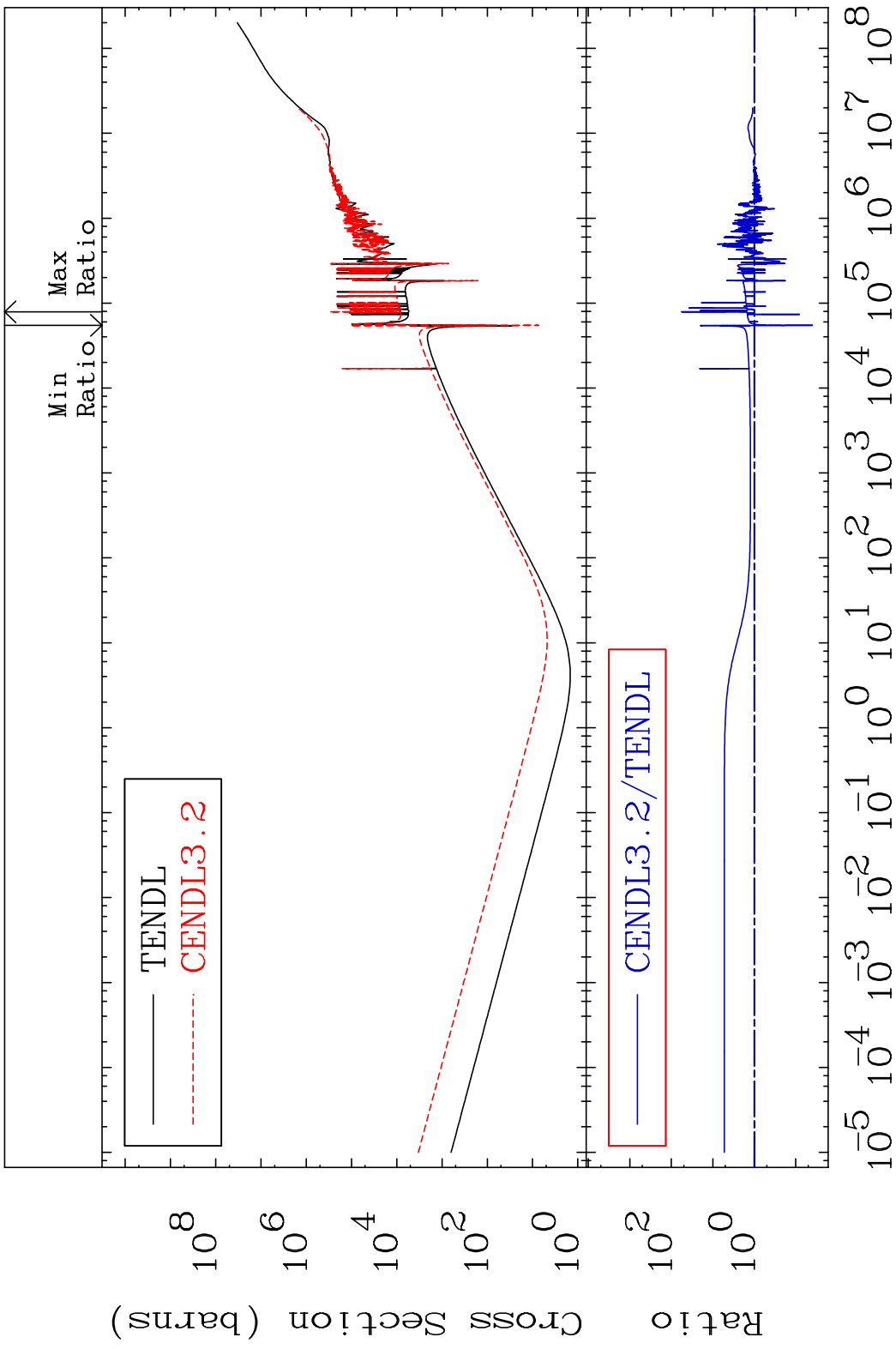
Incident Energy (eV) 22-Ti-50

MAT 2237 Total photon (eV-barns) 22-Ti-50  
 Cross Section -100.0 To 9999. %



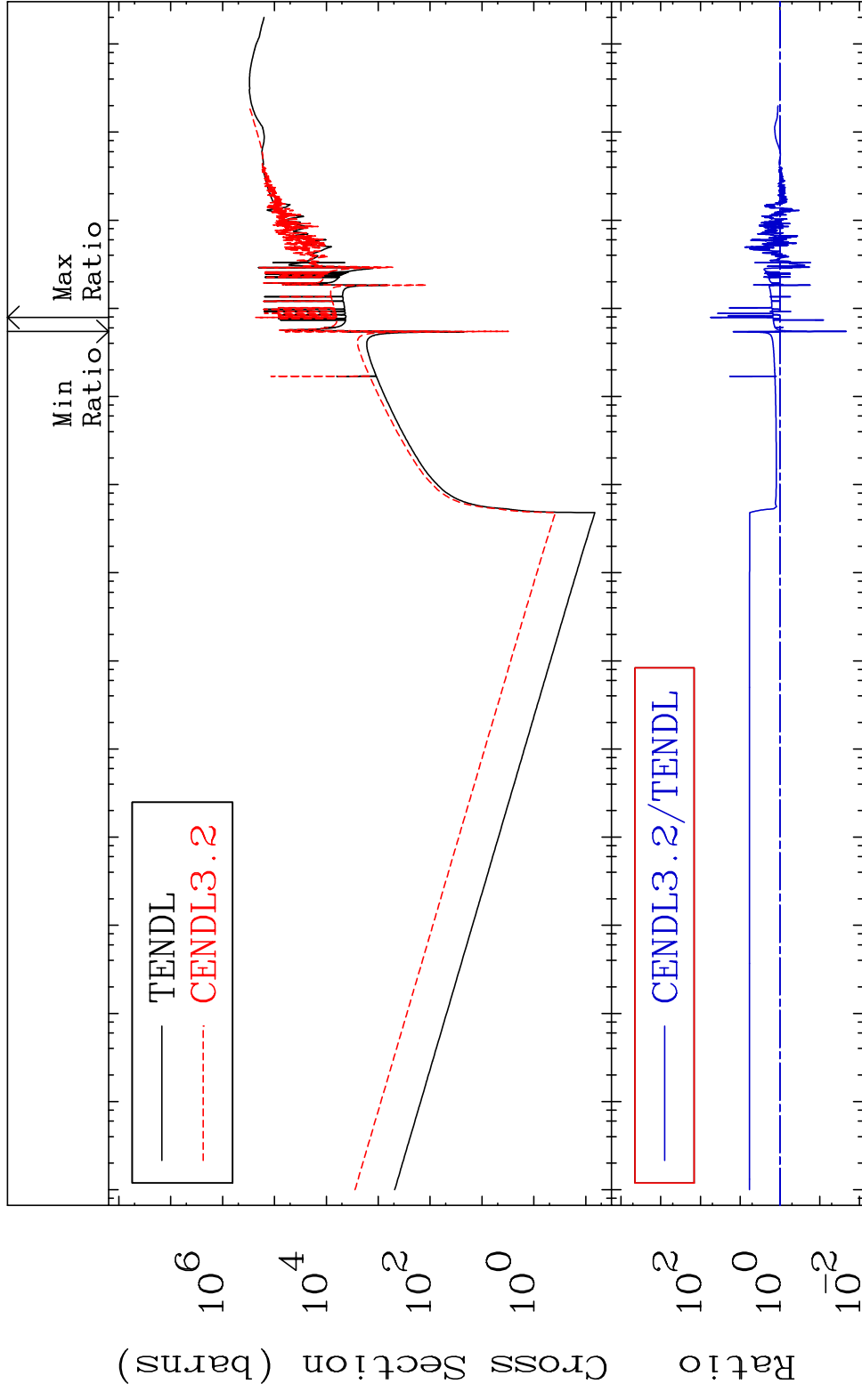
34 Incident Energy (eV) 22-Ti-50

MAT 2237 Total kinematic kerma (high limit) 22-Ti-50  
 Cross Section -96.01 To 5496. %



35 Incident Energy (eV) 22-Ti-50

MAT 2237      Dpa total (eV-barns)      22-Ti-50  
 Cross Section      -97.85 To 5418. %

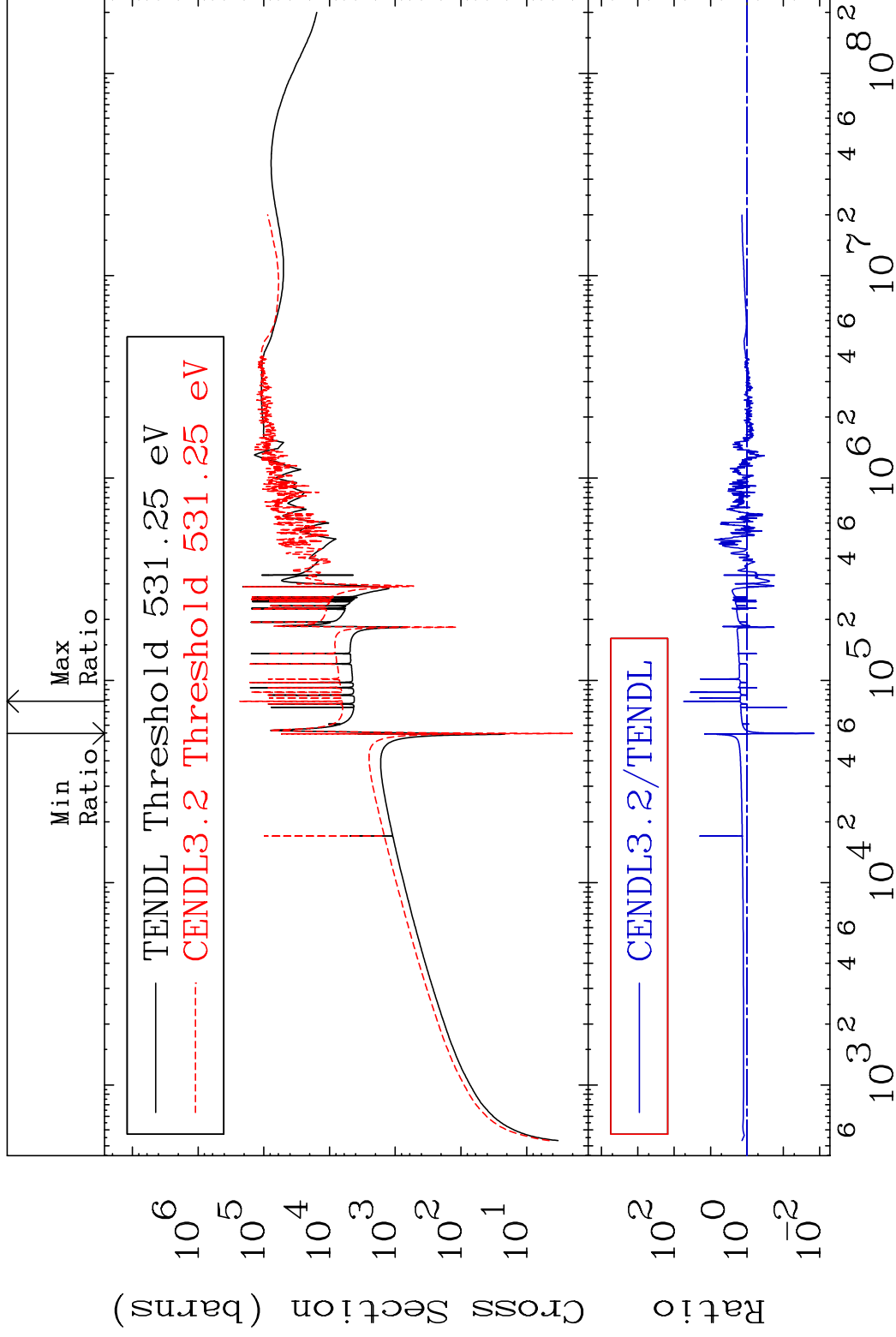


MAT 2237

Dpa elastic (mt2)

22-Ti-50

Cross Section -98.58 To 5396. %

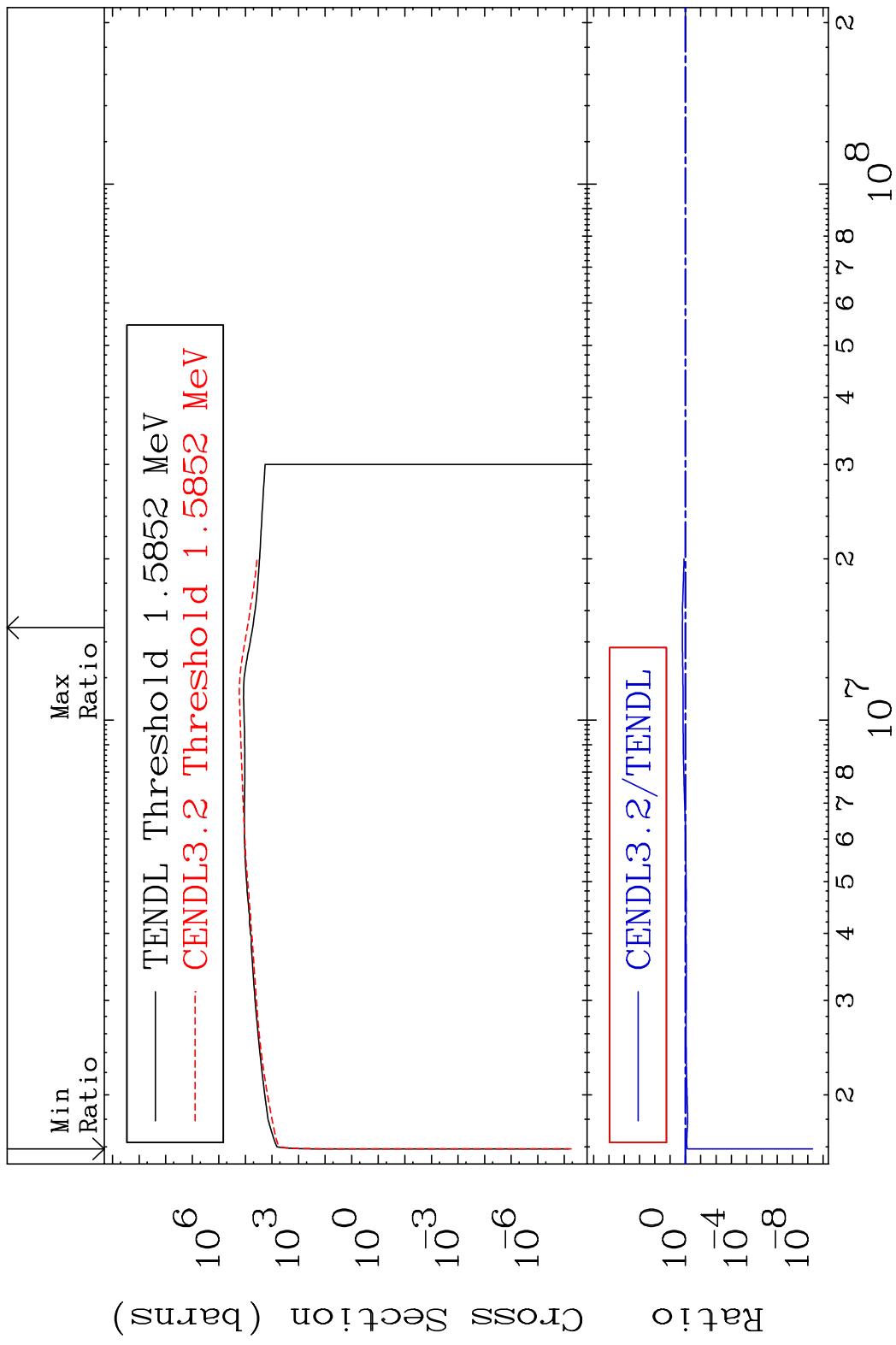


37

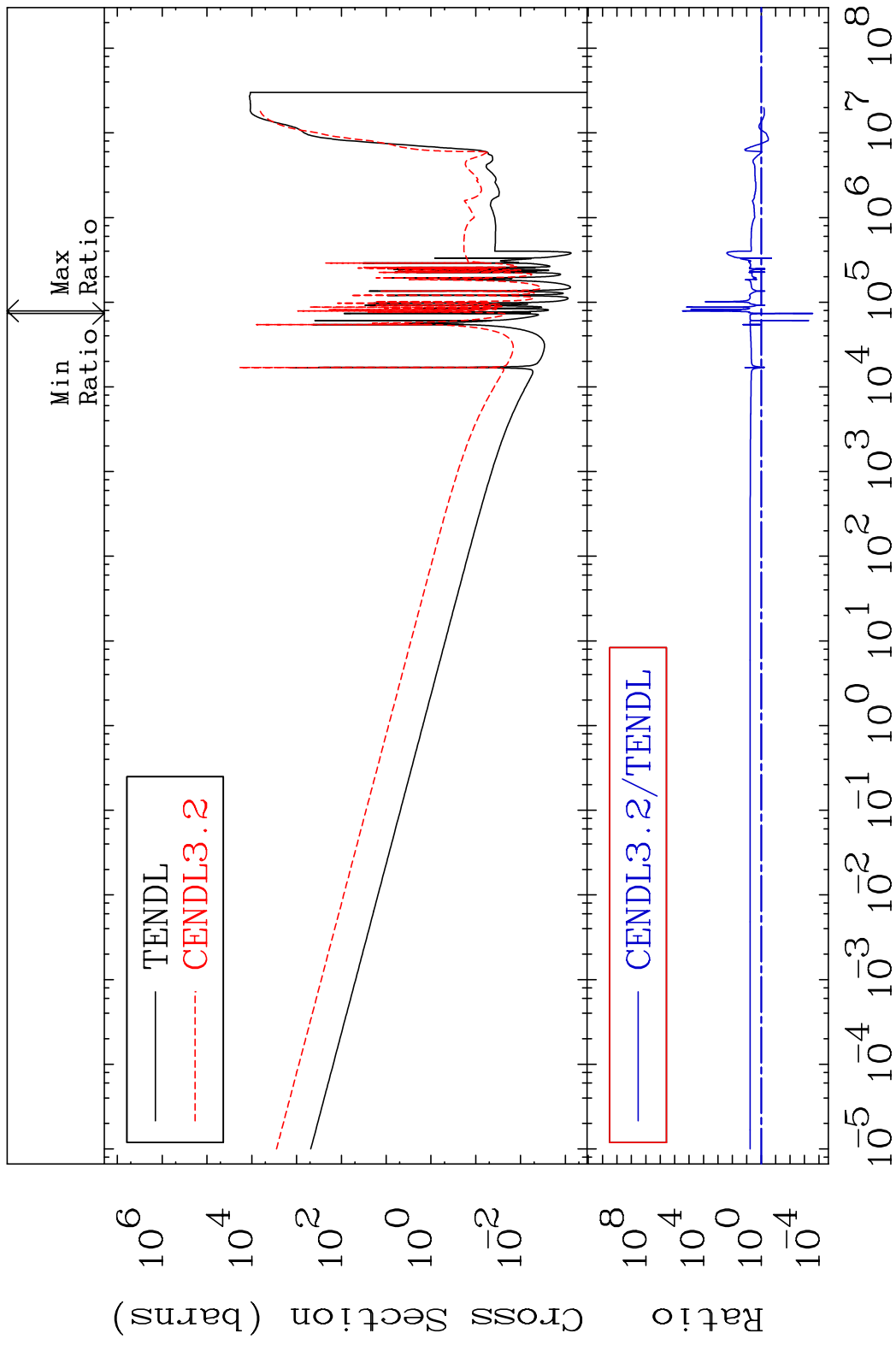
Incident Energy (eV)

22-Ti-50

MAT 2237 Dpa inelastic (mt51-91) 22-Ti-50  
 Cross Section -100.0 To 58.64 %



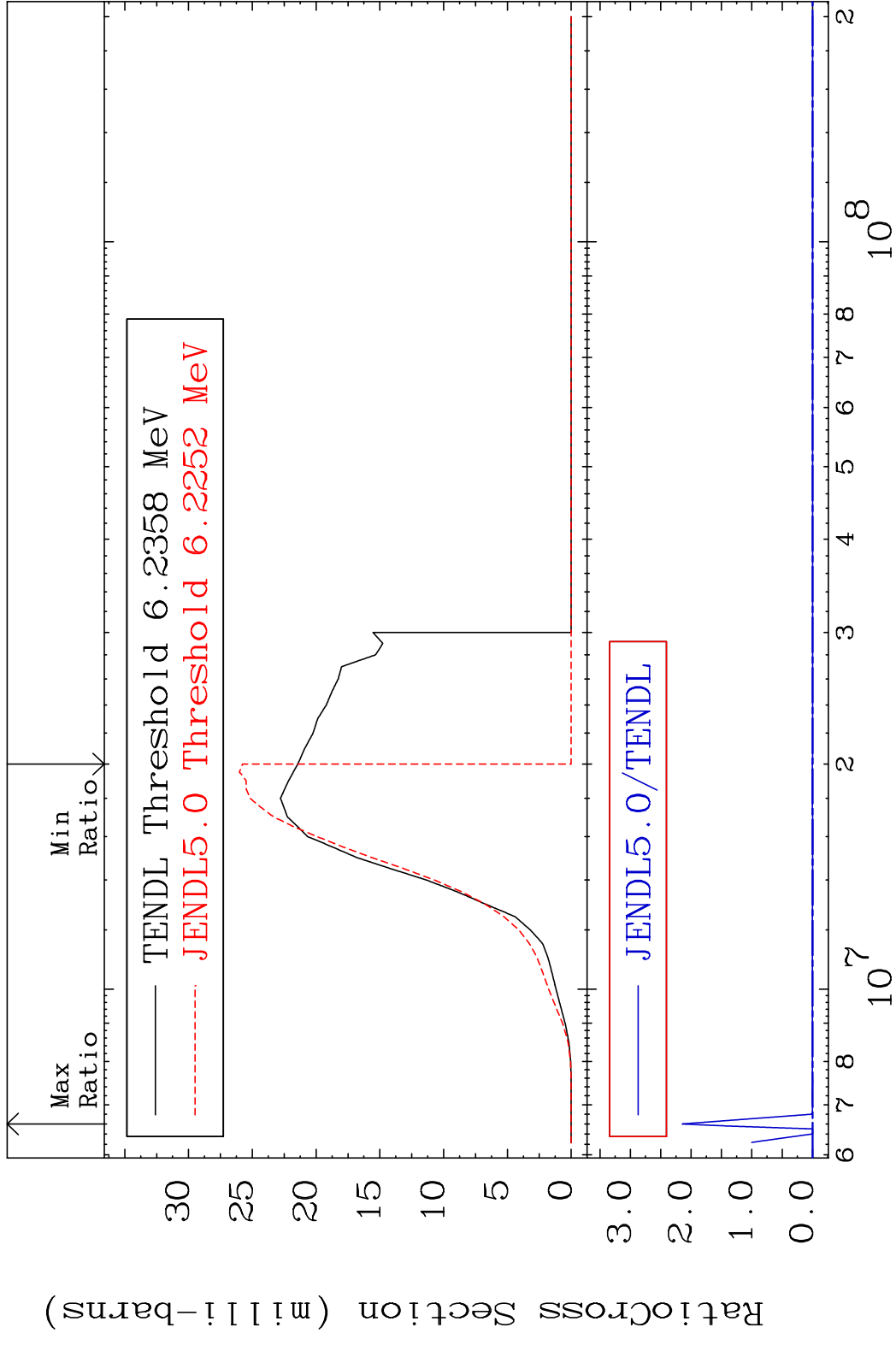
MAT 2237 Dpa disappearance (mt102 -120) 22-Ti-50  
 Cross Section -99.97 To 9999. %



39 Incident Energy (eV) 22-Ti-50

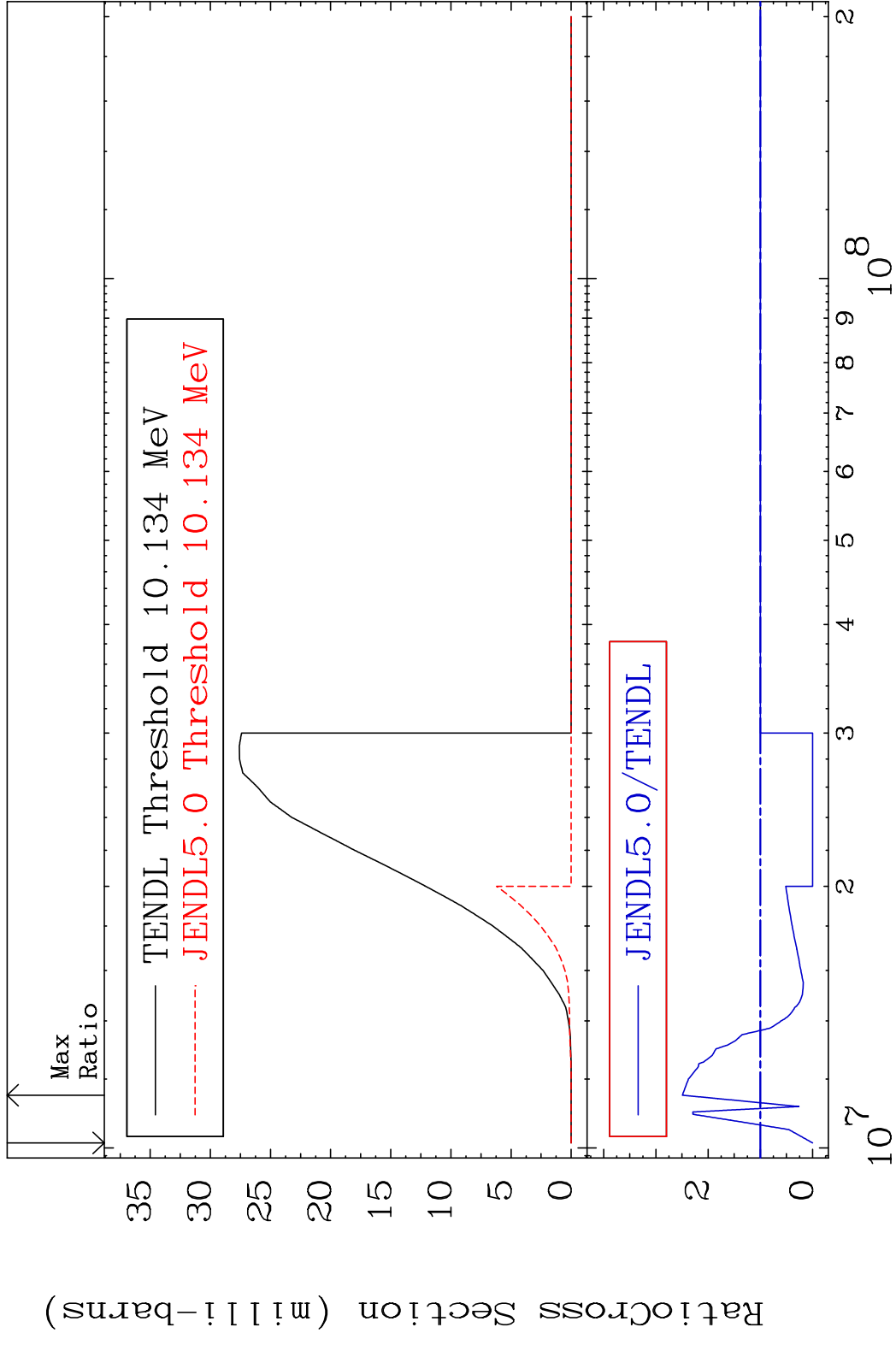


MAT 2237 (n,p) 22-Ti-50  
 Cross Section -100.0 To 9999. %



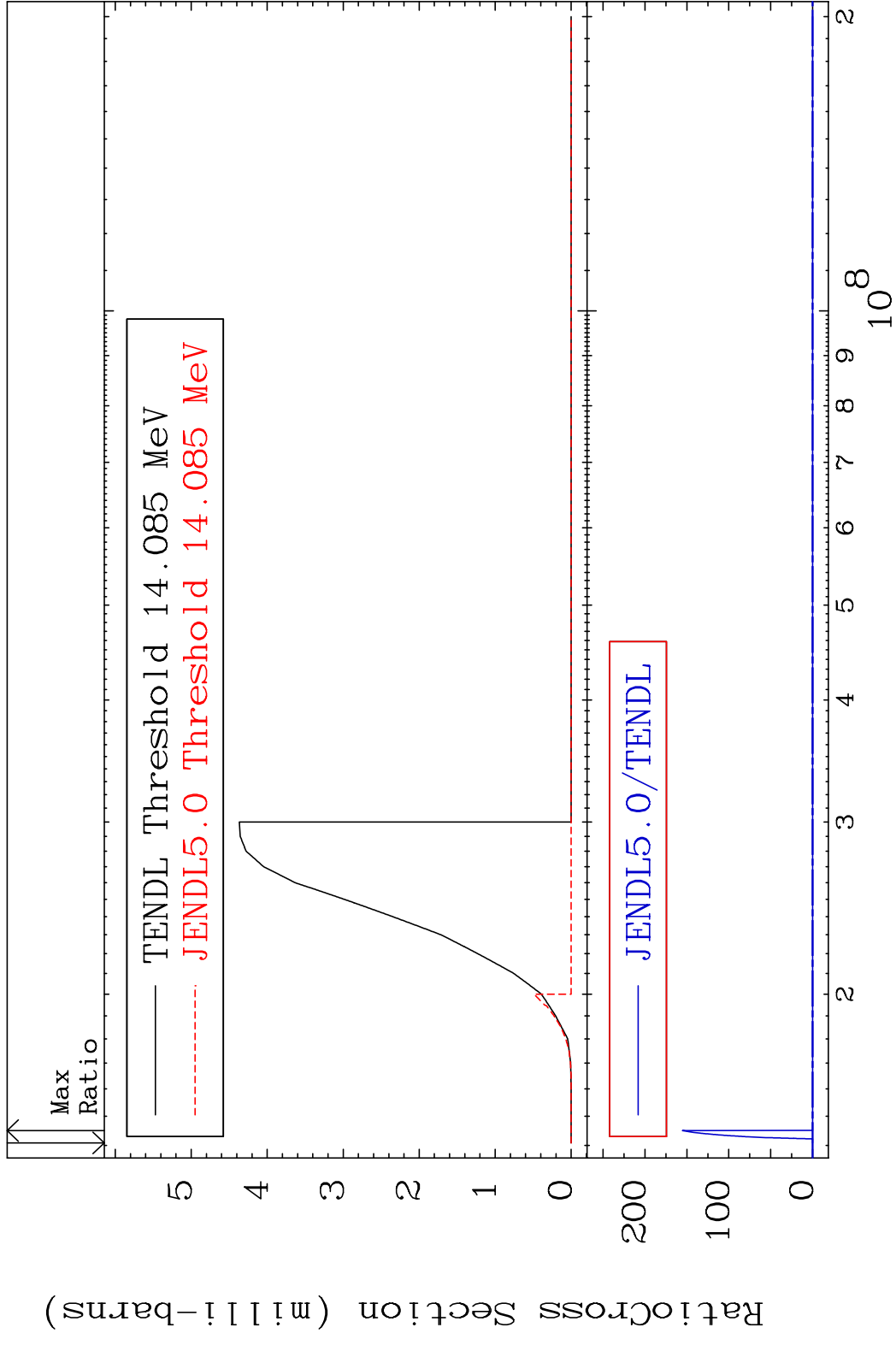
40 22-Ti-50

MAT 2237 (n,d) 22-Ti-50  
 Cross Section -100.0 To 149.3 %



41 Incident Energy (eV) 22-Ti-50

MAT 2237 (n, t) 22-Ti-50  
 Cross Section -100.0 To 9999. %



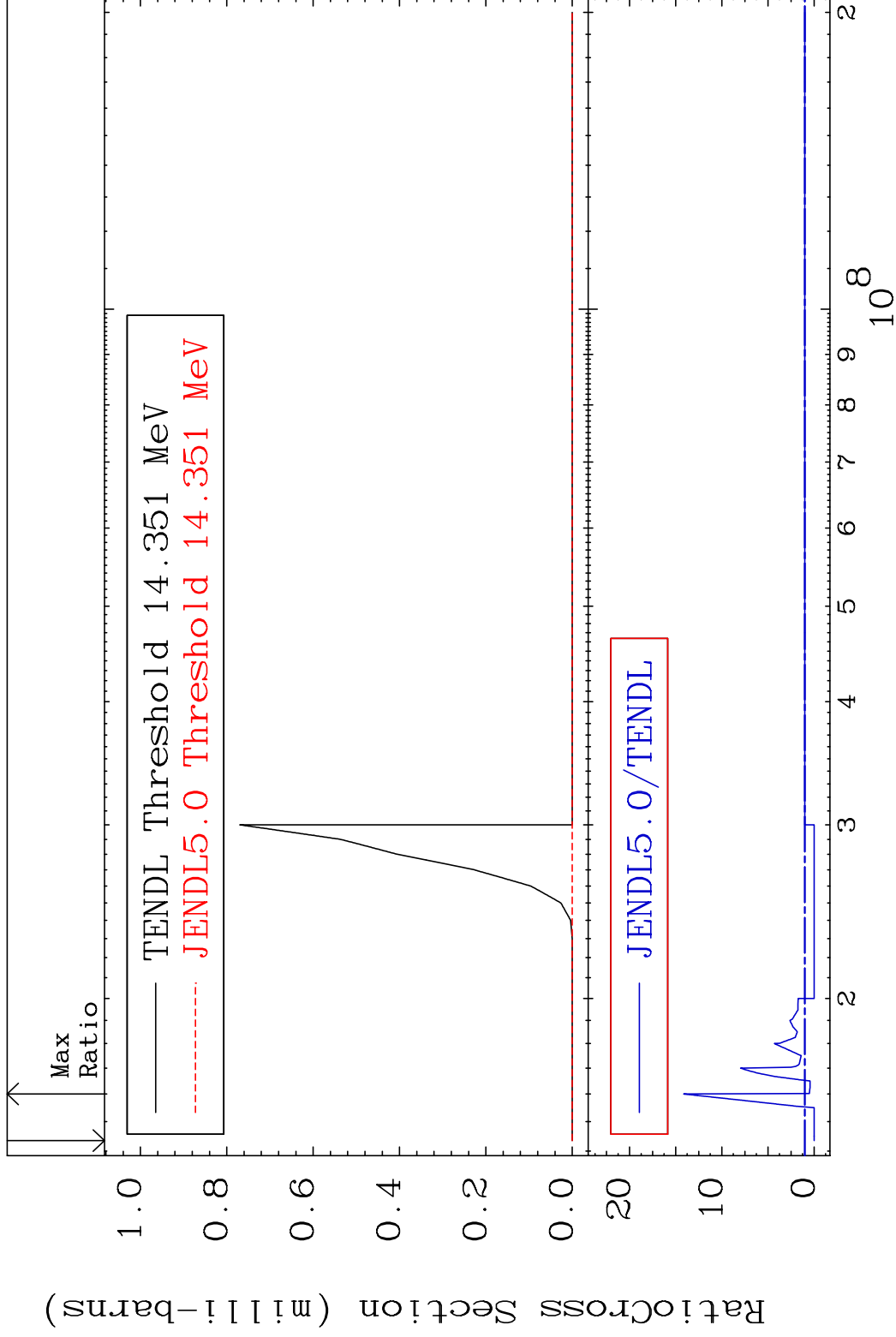
42 Incident Energy (eV) 22-Ti-50

MAT 2237

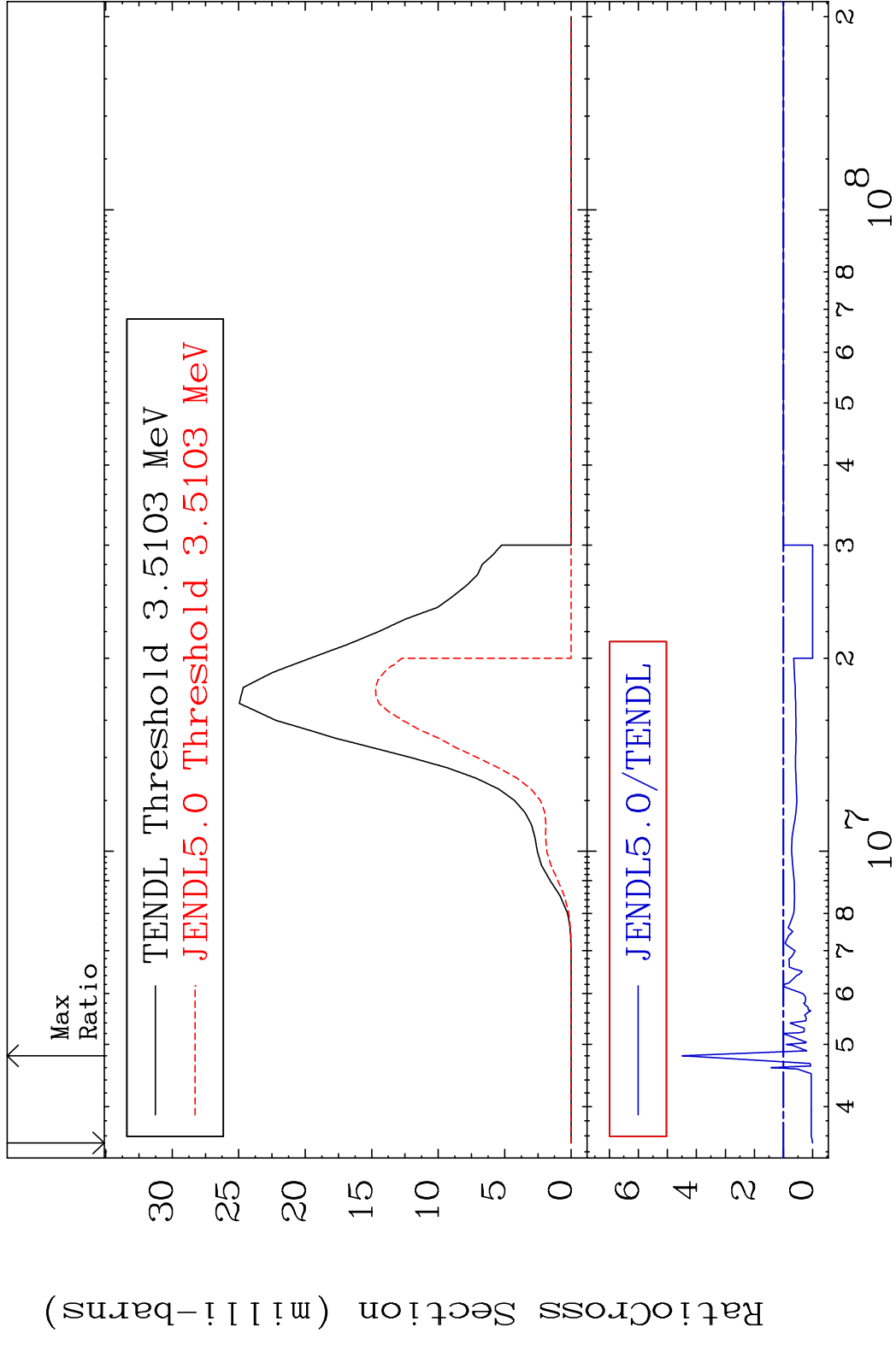
(n, He-3)

<sup>22</sup>Ti-50

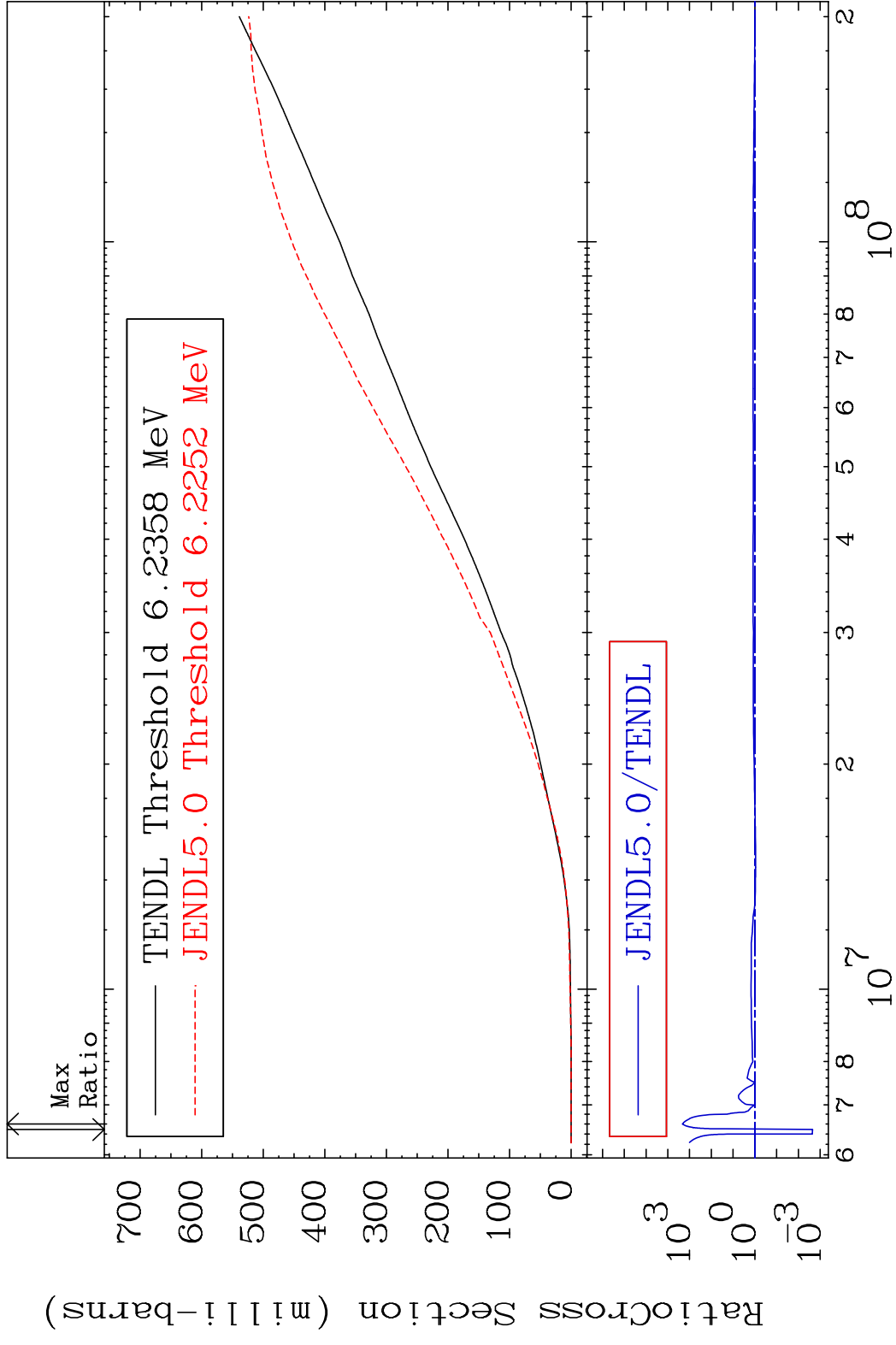
Cross Section -100.0 To 1314. %



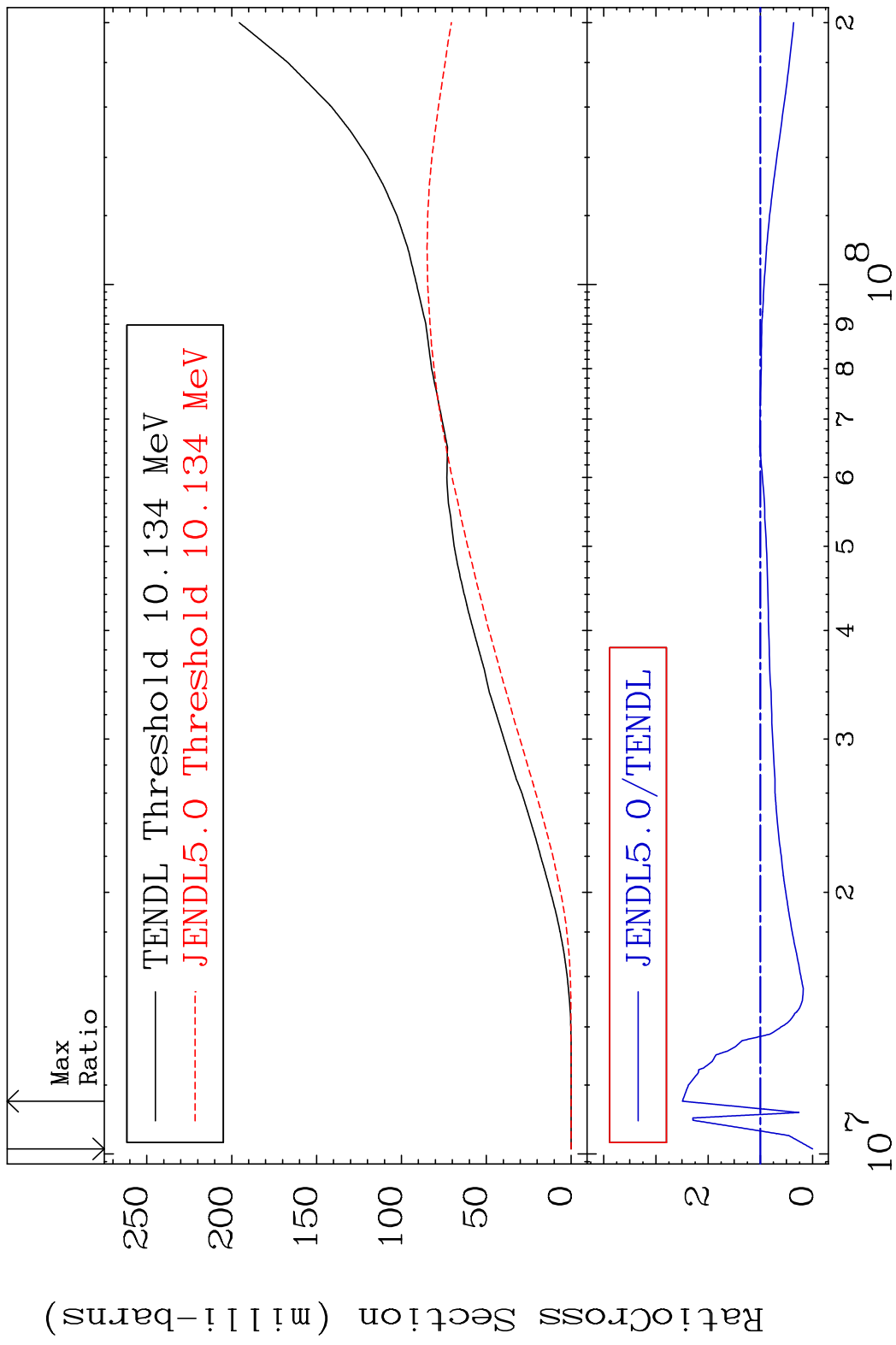
MAT 2237 (n,  $\alpha$ ) 22-Ti-50  
 Cross Section -100.0 To 348.4 %



MAT 2237 Hydrogen Production 22-Ti-50  
 Cross Section -99.78 To 9999. %

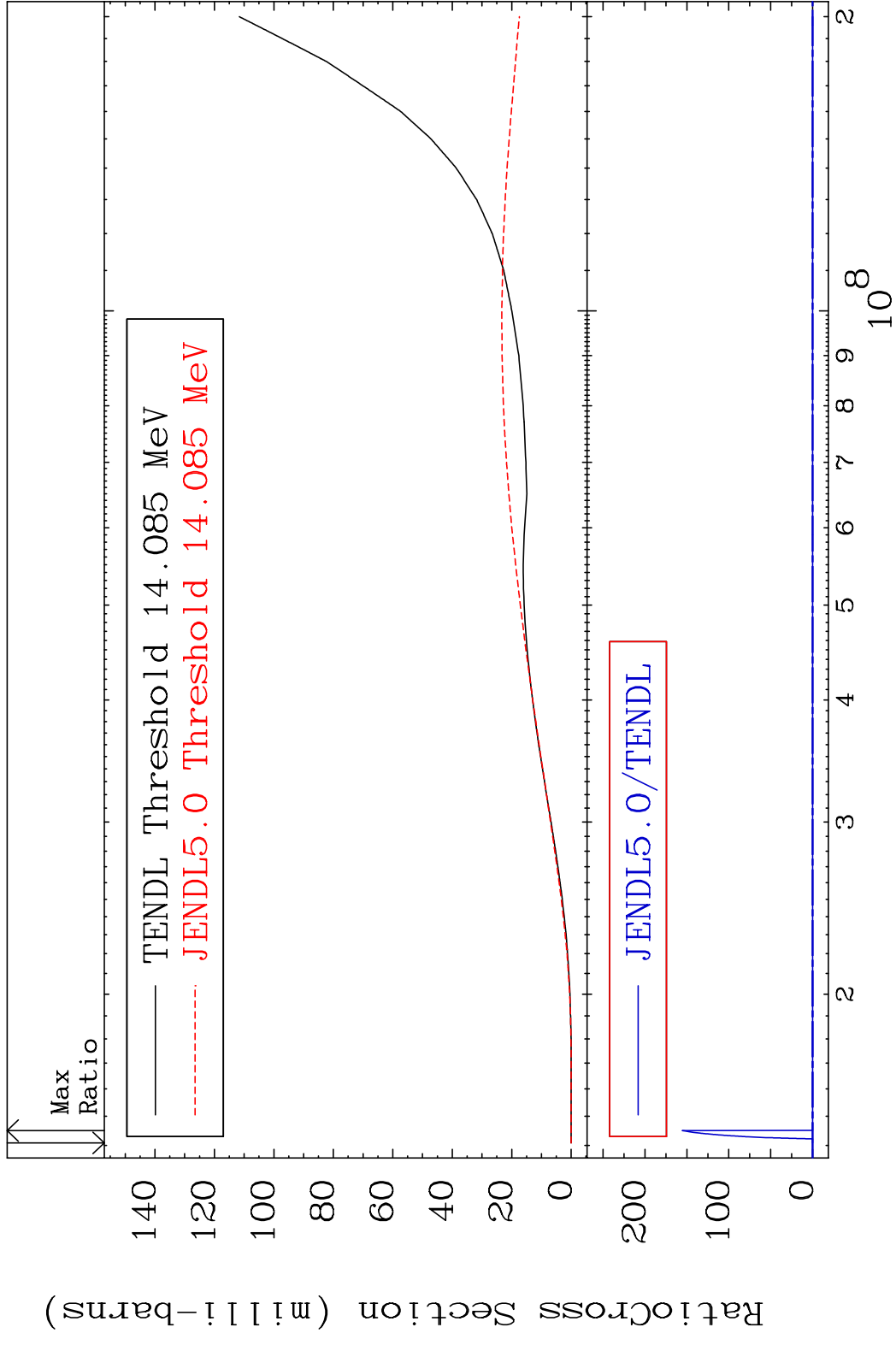


MAT 2237 Deuterium Production  $^{22}\text{Ti-50}$   
 Cross Section -100.0 To 149.3 %



46  $^{22}\text{Ti-50}$

MAT 2237 Tritium Production 22-Ti-50  
 Cross Section -100.0 To 9999. %



47 Incident Energy (eV) 22-Ti-50

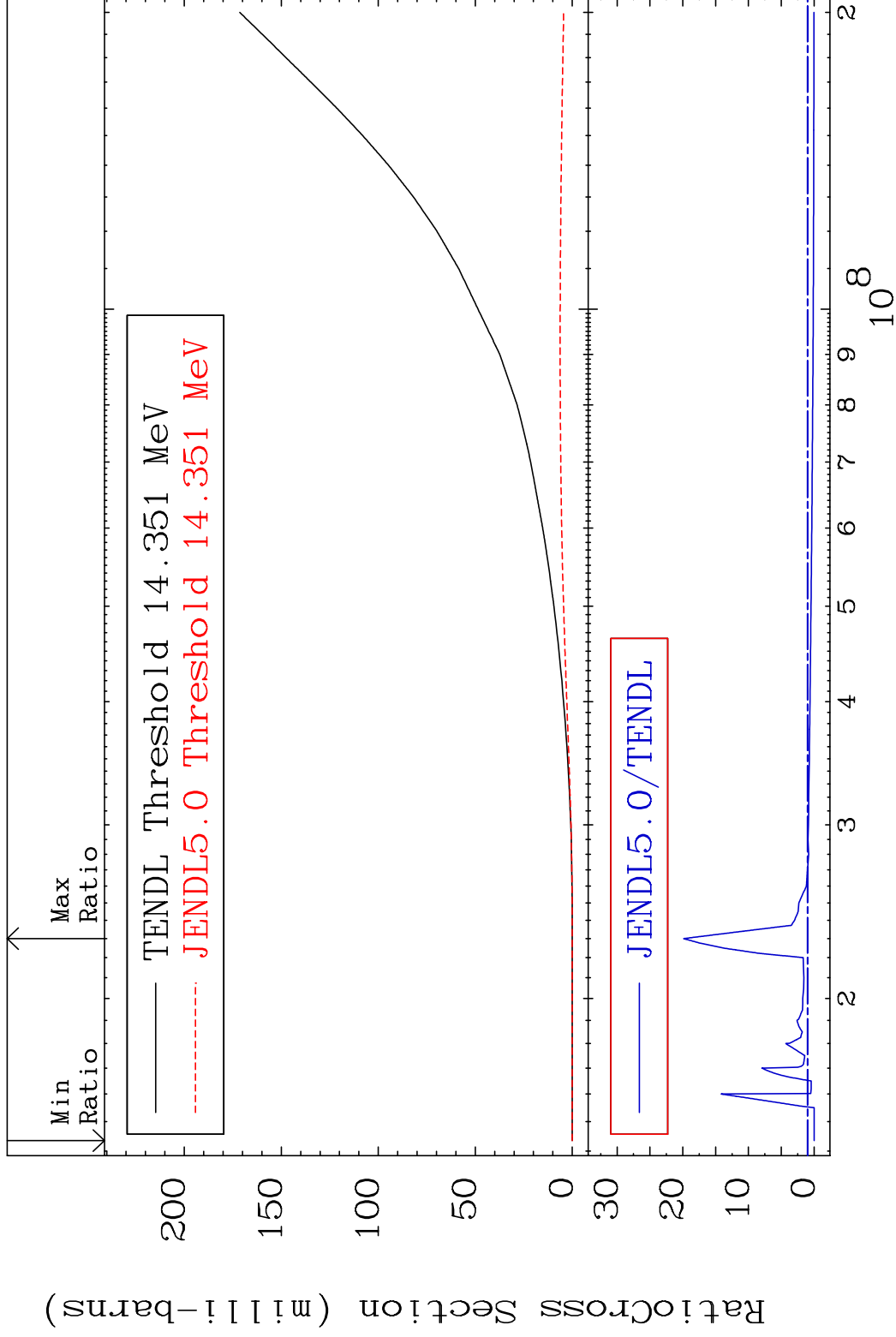


MAT 2237

He-3 Production

22-Ti-50

Cross Section -100.0 To 1886. %

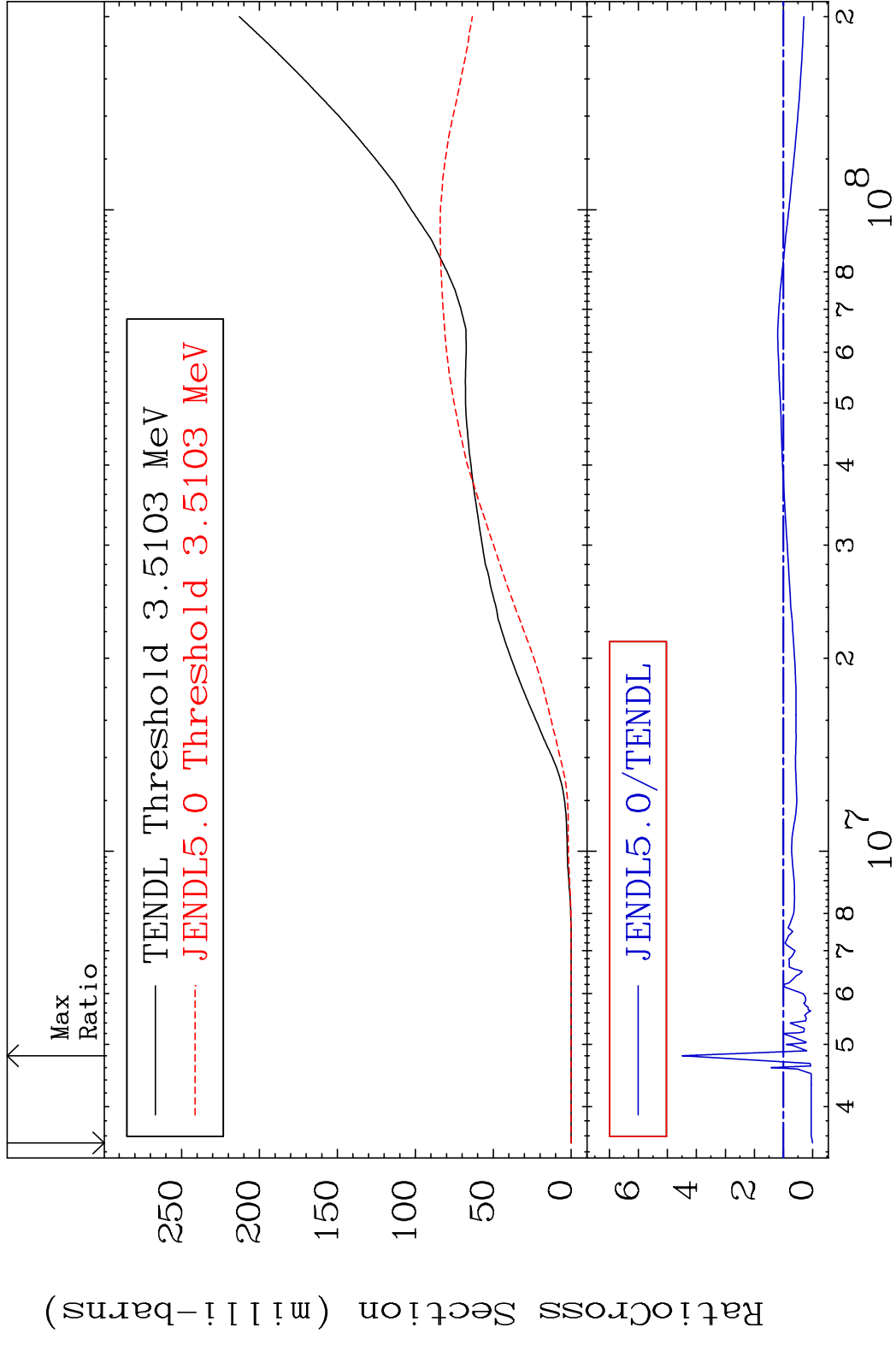


48

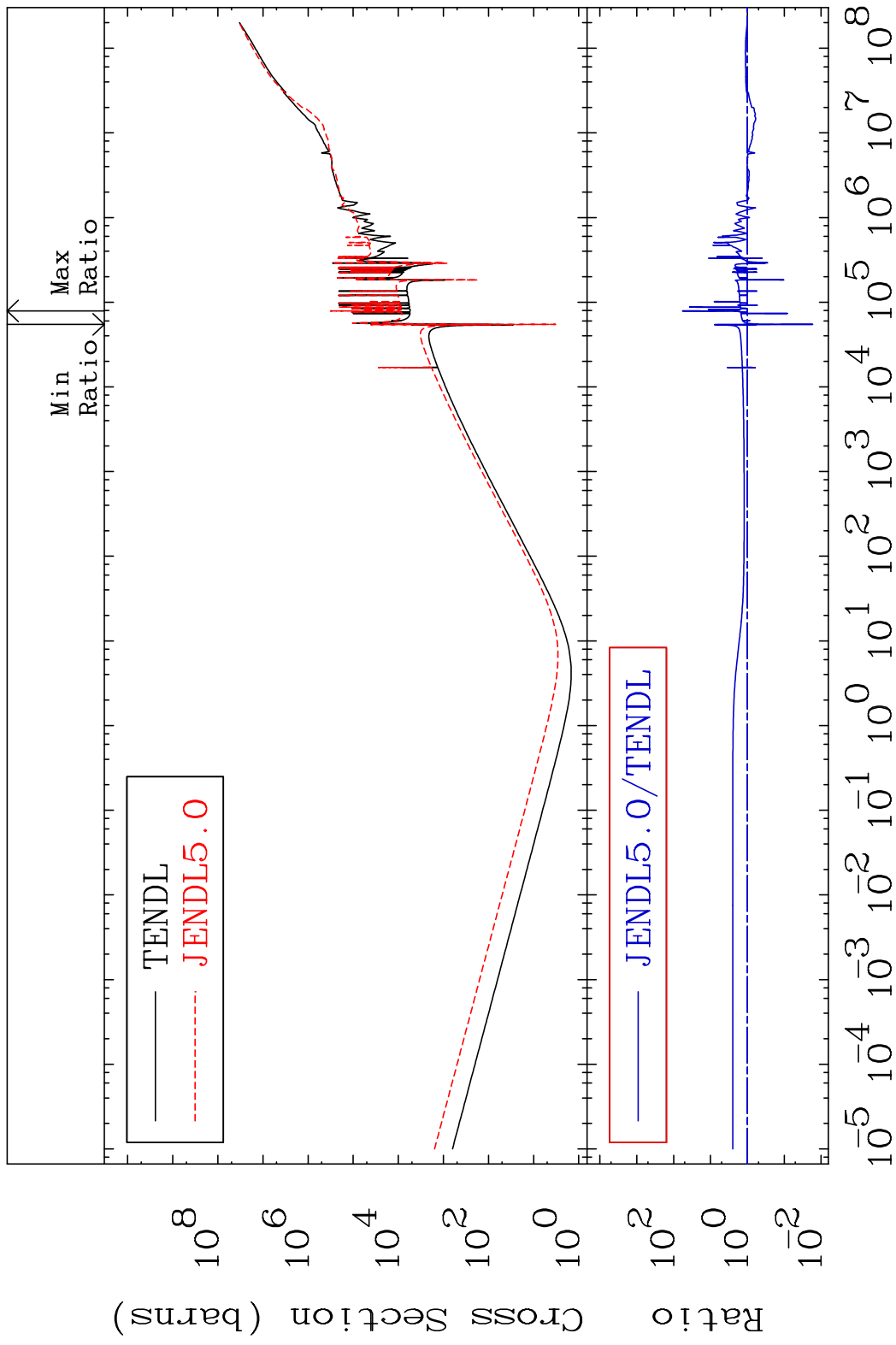
Incident Energy (eV)

22-Ti-50

MAT 2237 He-4 Production 22-Ti-50  
 Cross Section -100.0 To 348.4 %



MAT 2237 Kerma total (eV-barns) 22-Ti-50  
Cross Section -98.29 To 5709. %

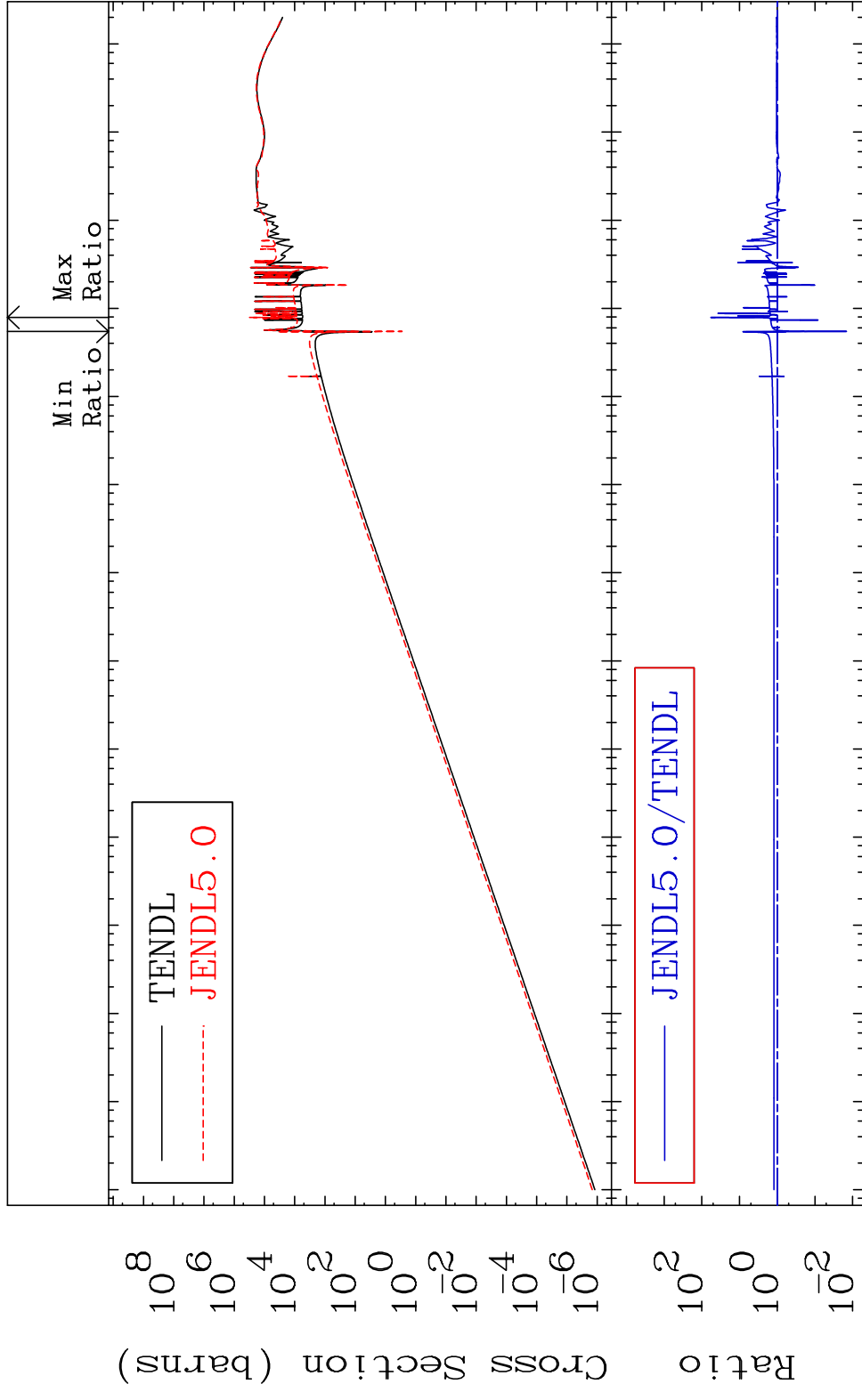


50 Incident Energy (eV) 22-Ti-50

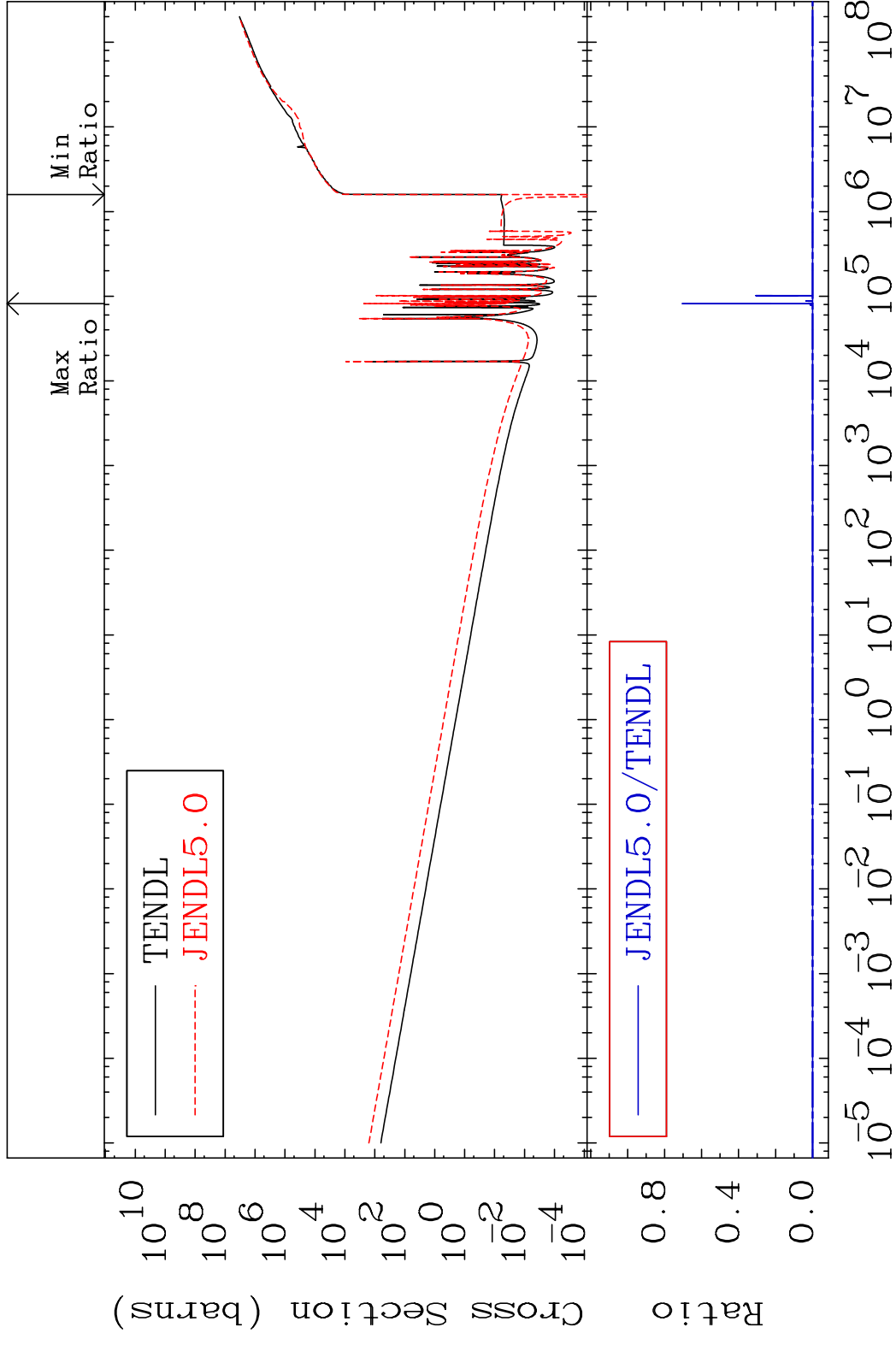
MAT 2237

Kerma elastic  
Cross Section -98.53 To 5708. %

22-Ti-50

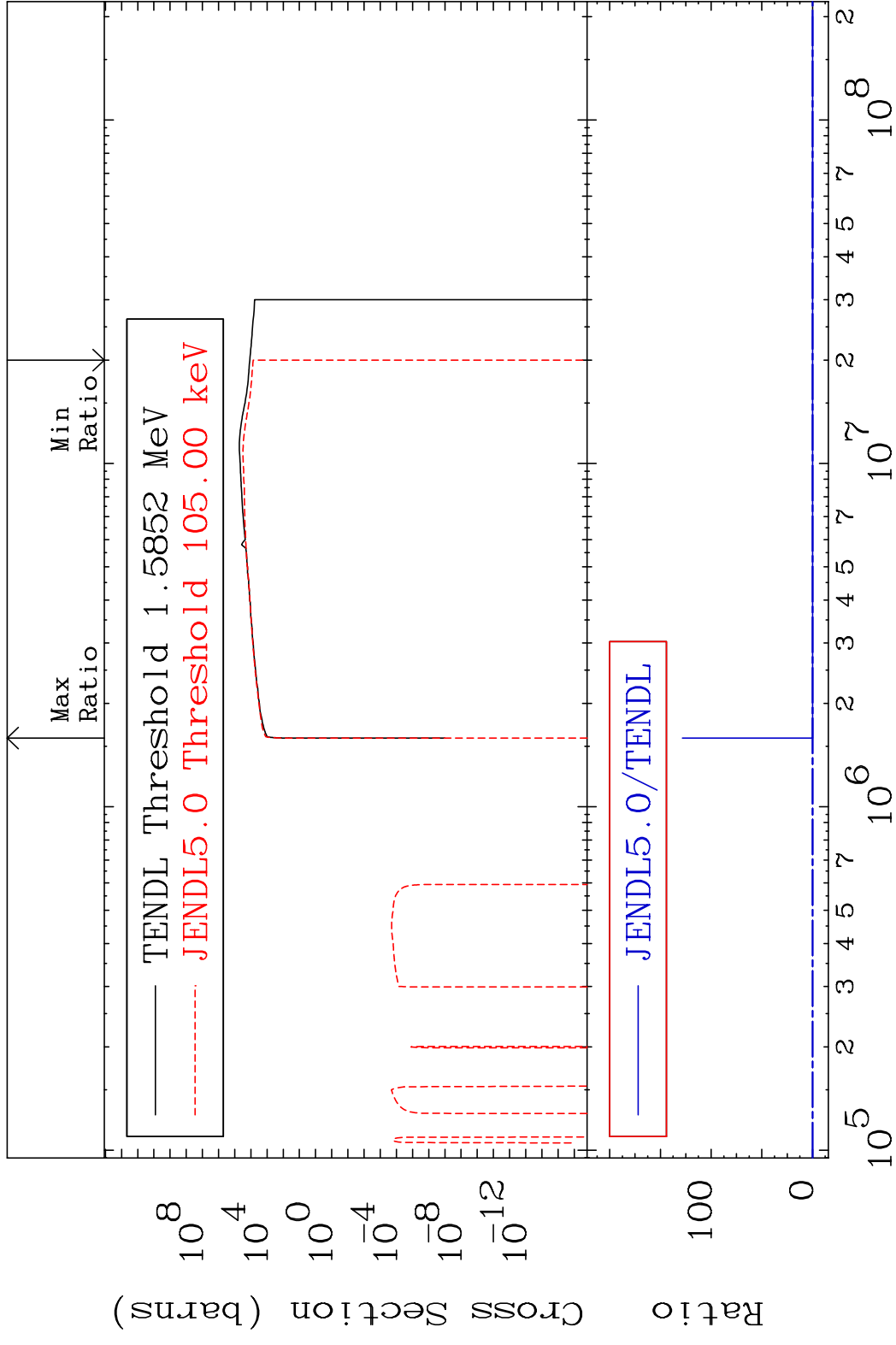


MAT 2237 Kerma non-elastic (all but mt2) 22-Ti-50  
 Cross Section -1486. To 9999. %



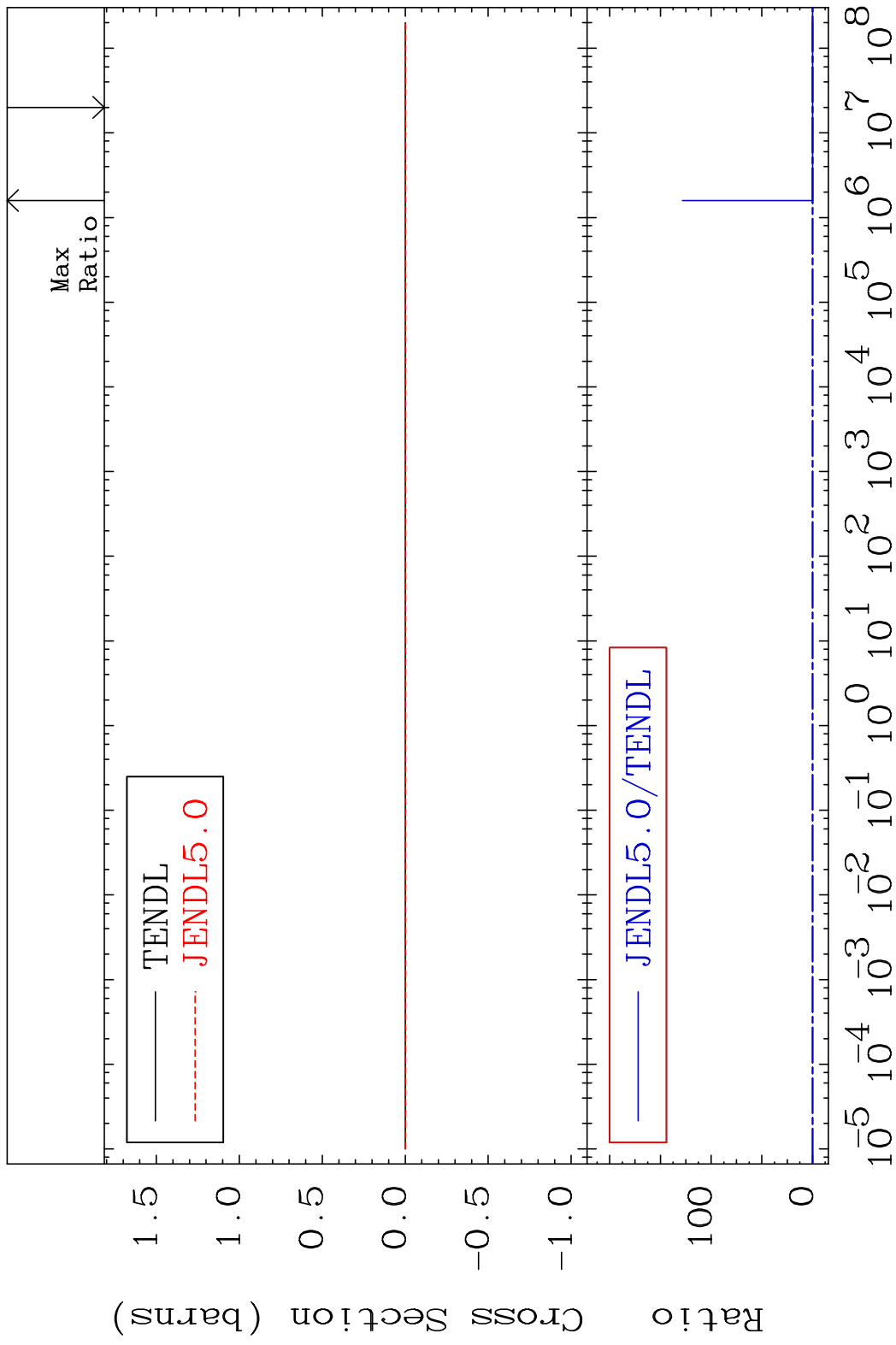
52 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma inelastic (mt51-91) 22-Ti-50  
 Cross Section -100.0 To 9999. %



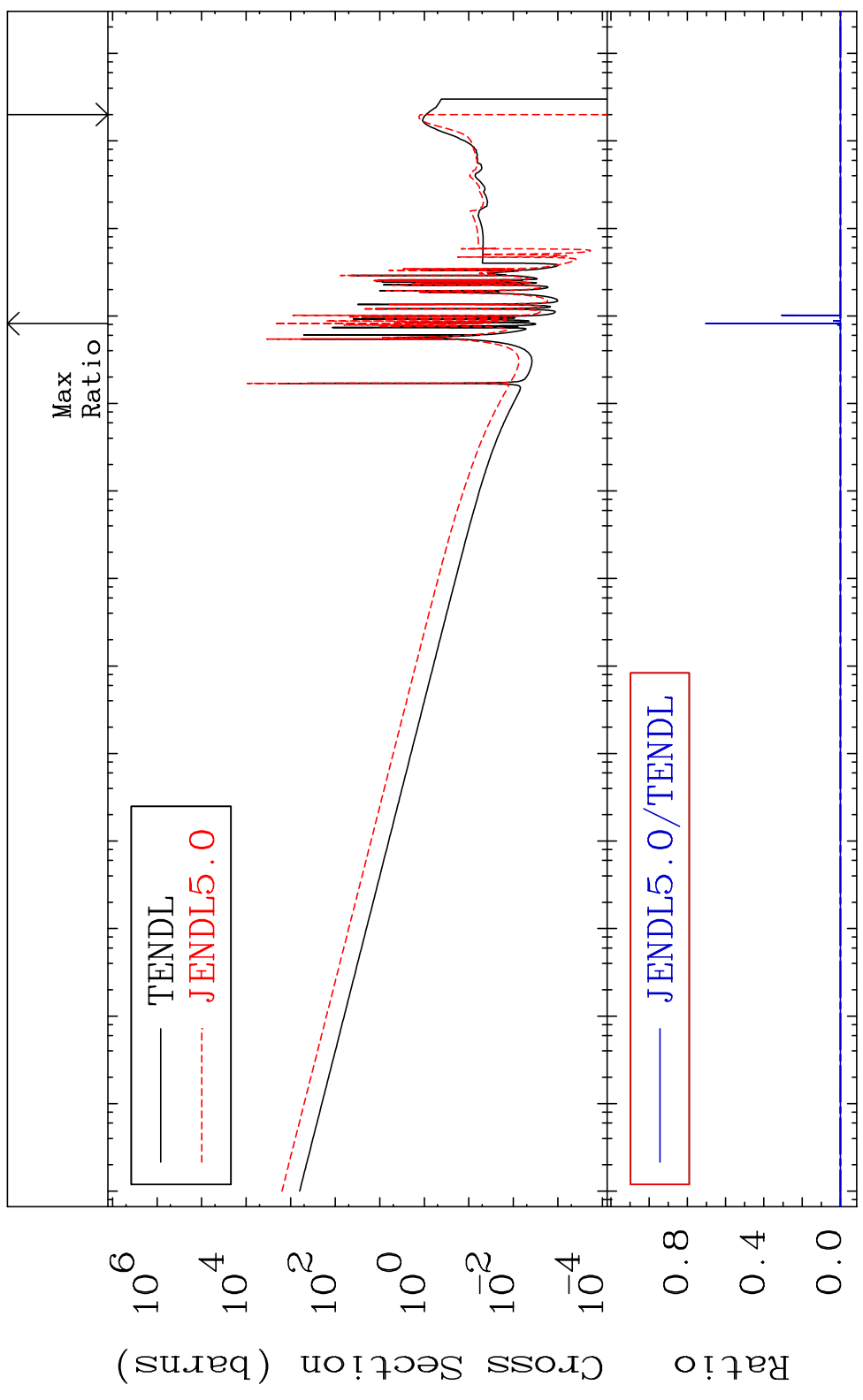
53 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-50  
 Cross Section -100.0 To 9999. %



MAT 2237

Kerma capture (mt102) 22-Ti-50  
Cross Section -100.0 To 9999. %

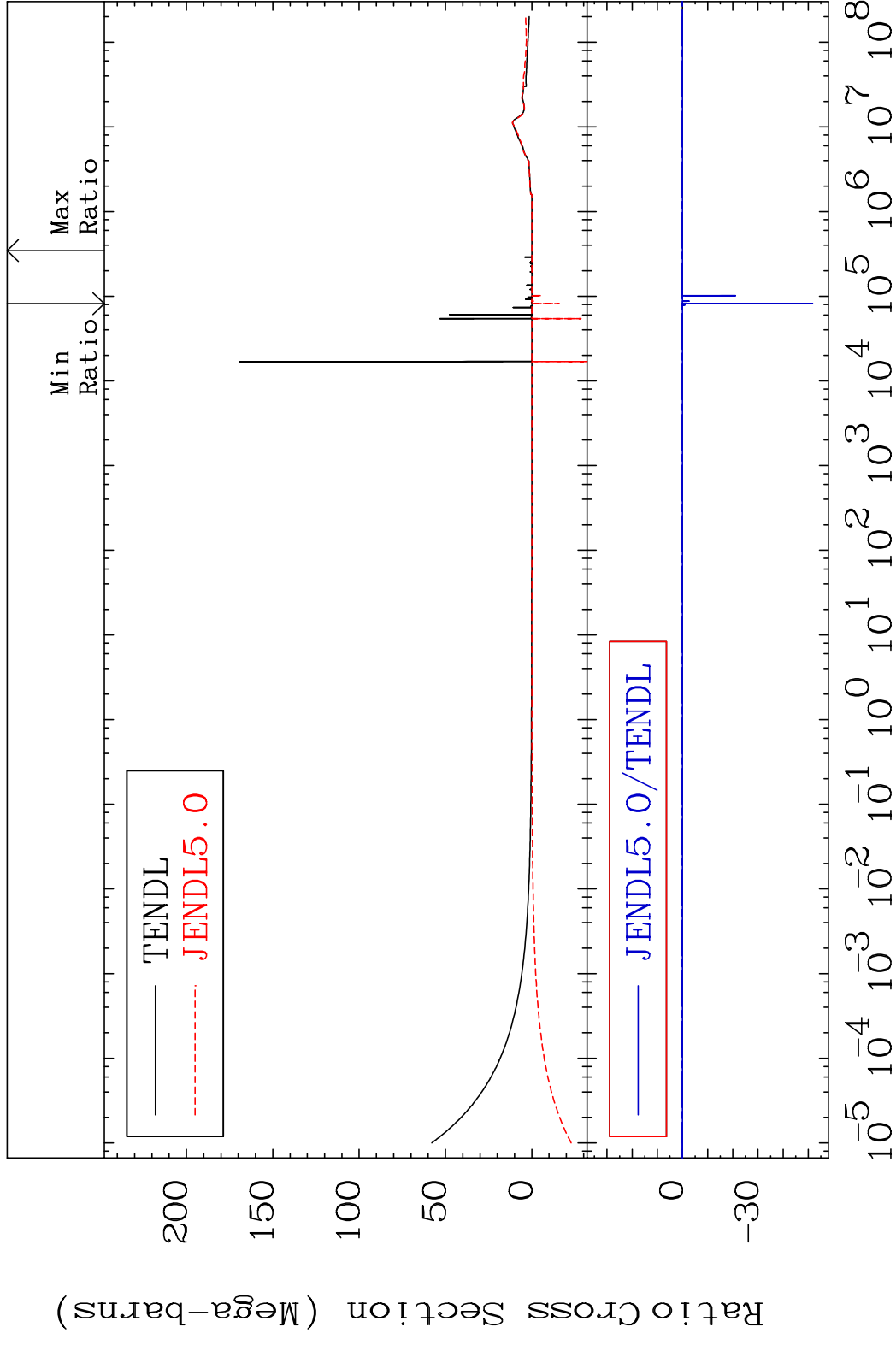


55

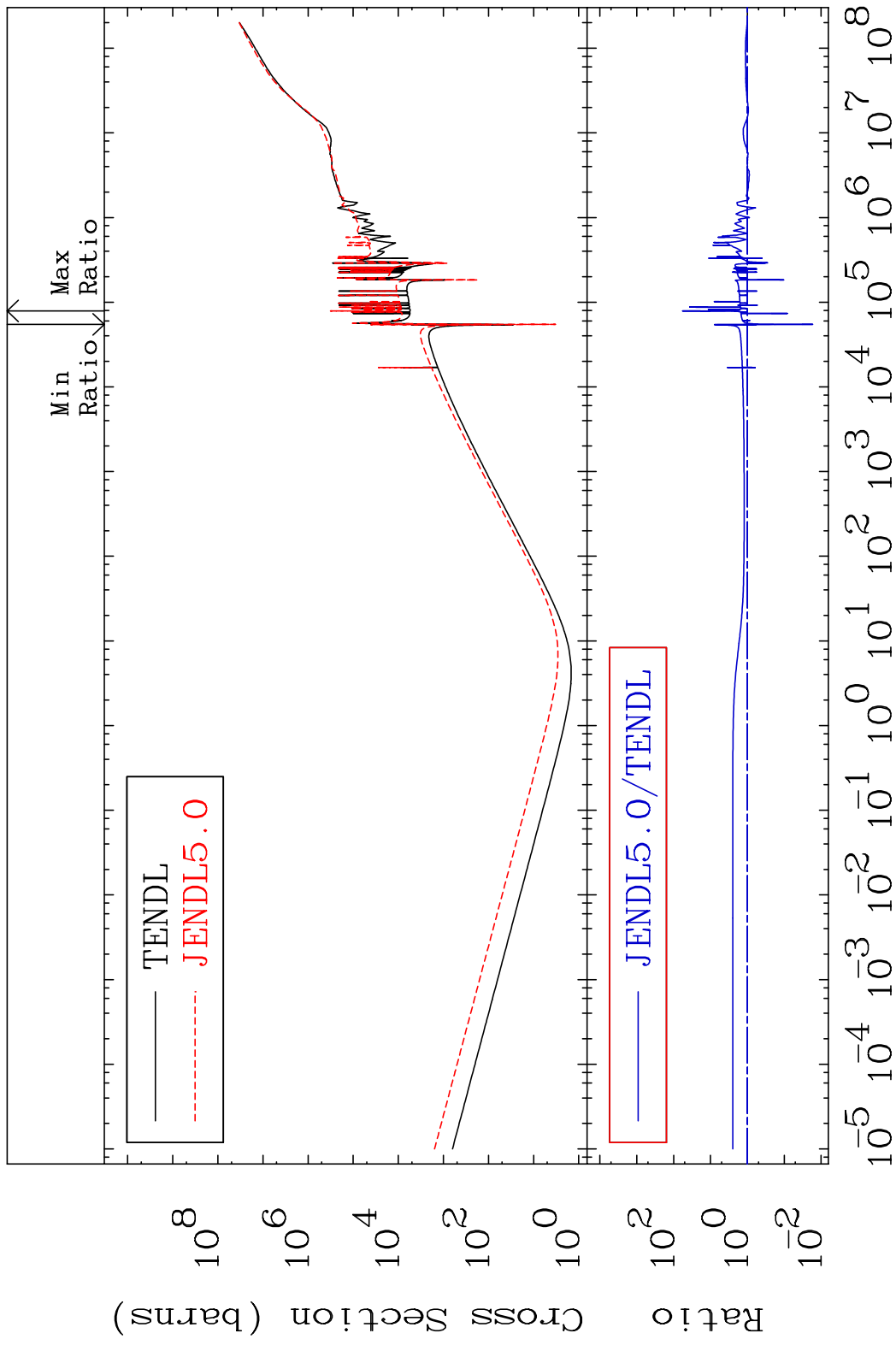
Incident Energy (eV) 22-Ti-50



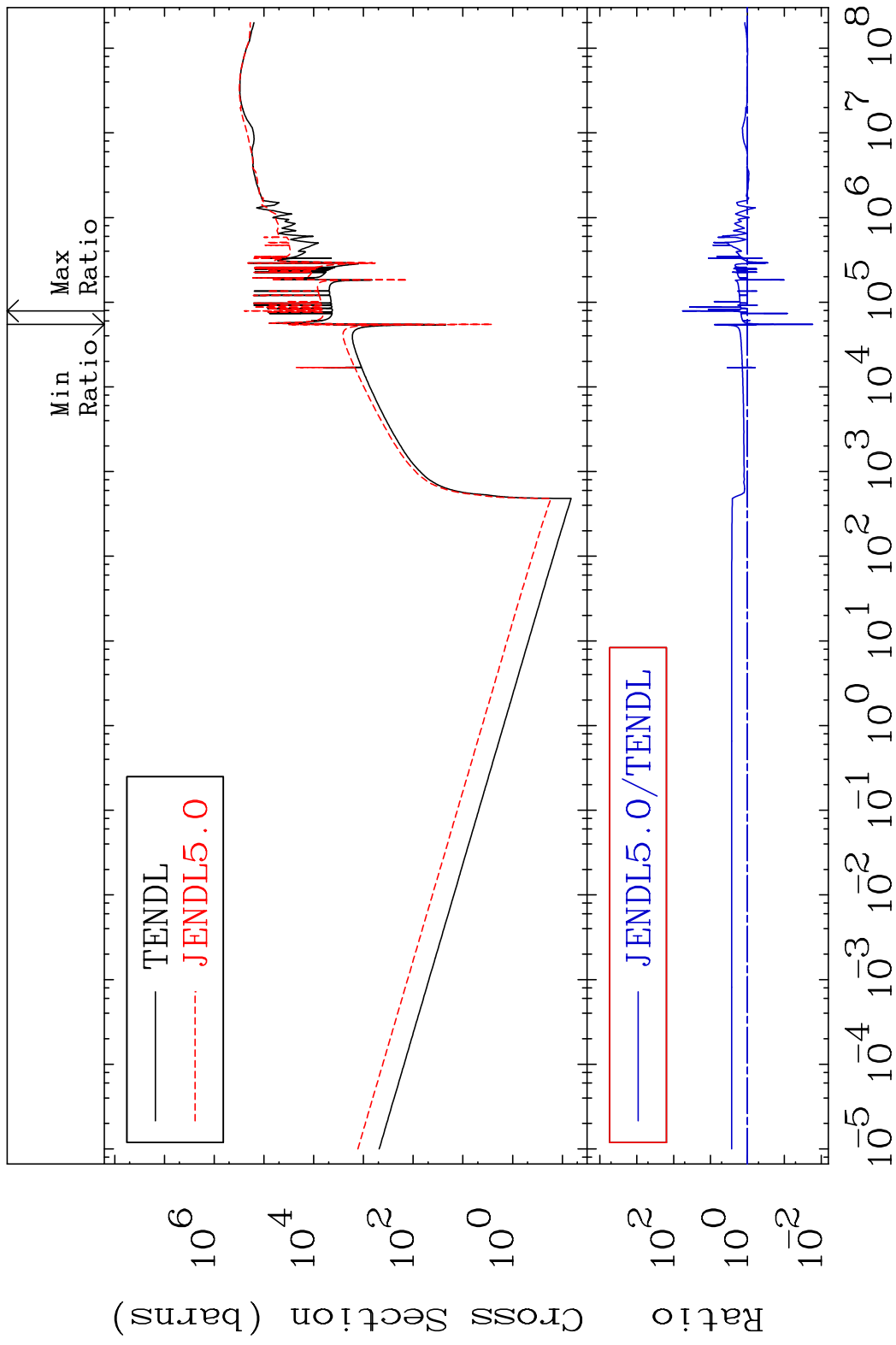
MAT 2237 Total photon (eV-barns) 22-Ti-50  
 Cross Section -9999. To 5335. %



MAT 2237 Total kinematic kerma (high limit) 22-Ti-50  
 Cross Section -98.29 To 5709. %



MAT 2237 Dpa total (eV-barns) 22-Ti-50  
 Cross Section -98.28 To 5709. %



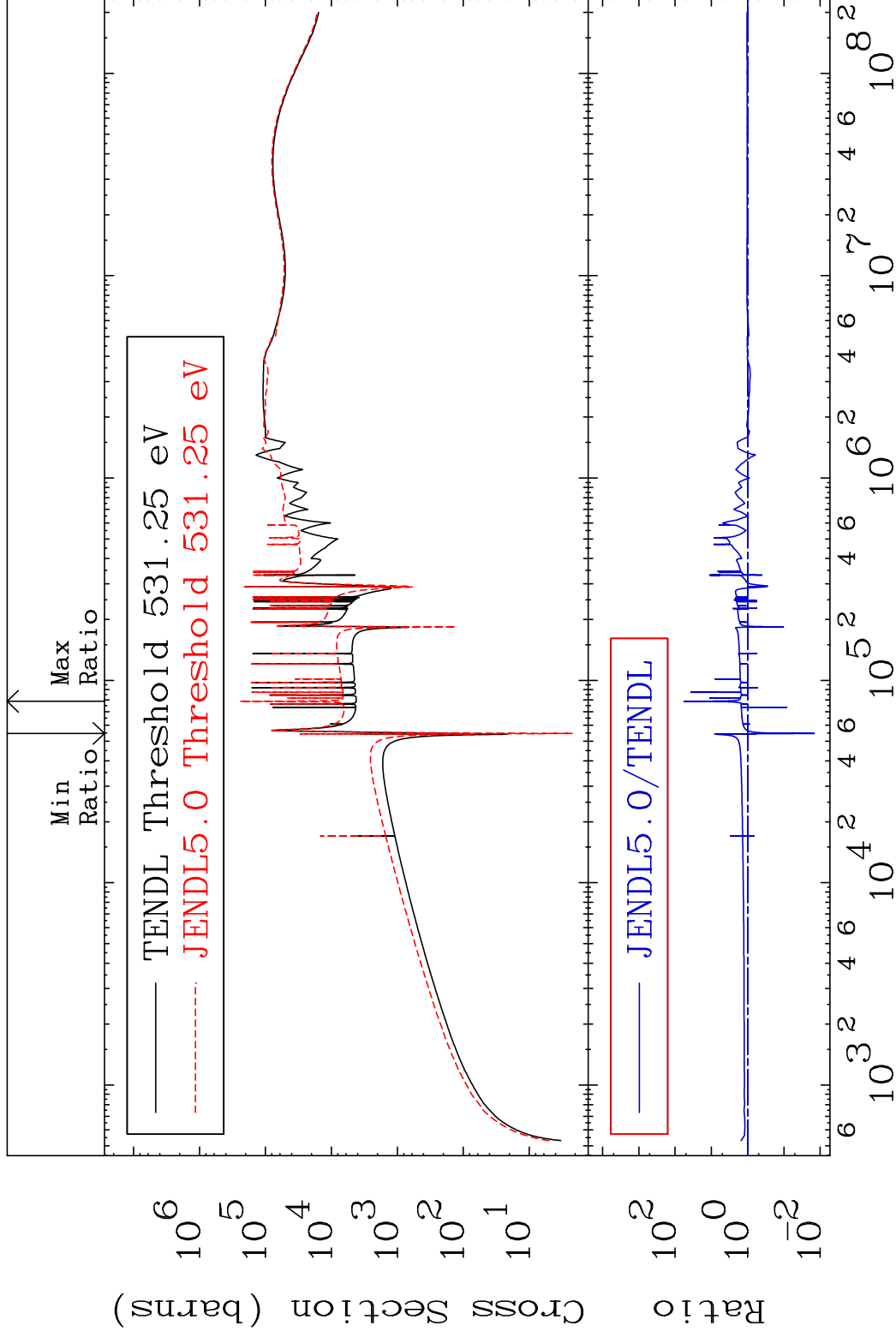
58 Incident Energy (eV) 22-Ti-50

MAT 2237

Dpa elastic (mt2)

22-Ti-50

Cross Section -98.53 To 5707. %



59

Incident Energy (eV)

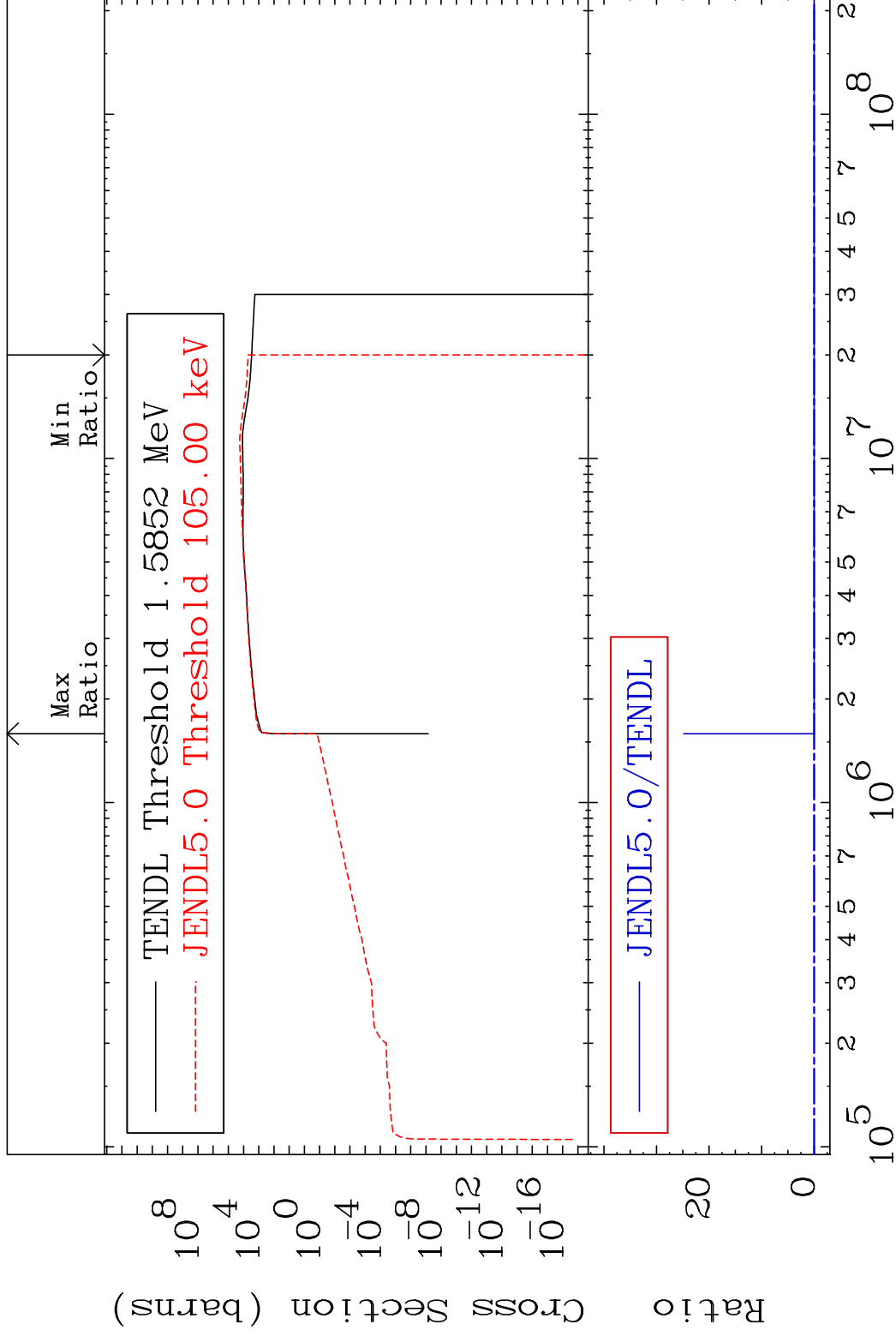
22-Ti-50

MAT 2237

Dpa inelastic (mt51-91)

22-Ti-50

Cross Section -100.0 To 9999. %

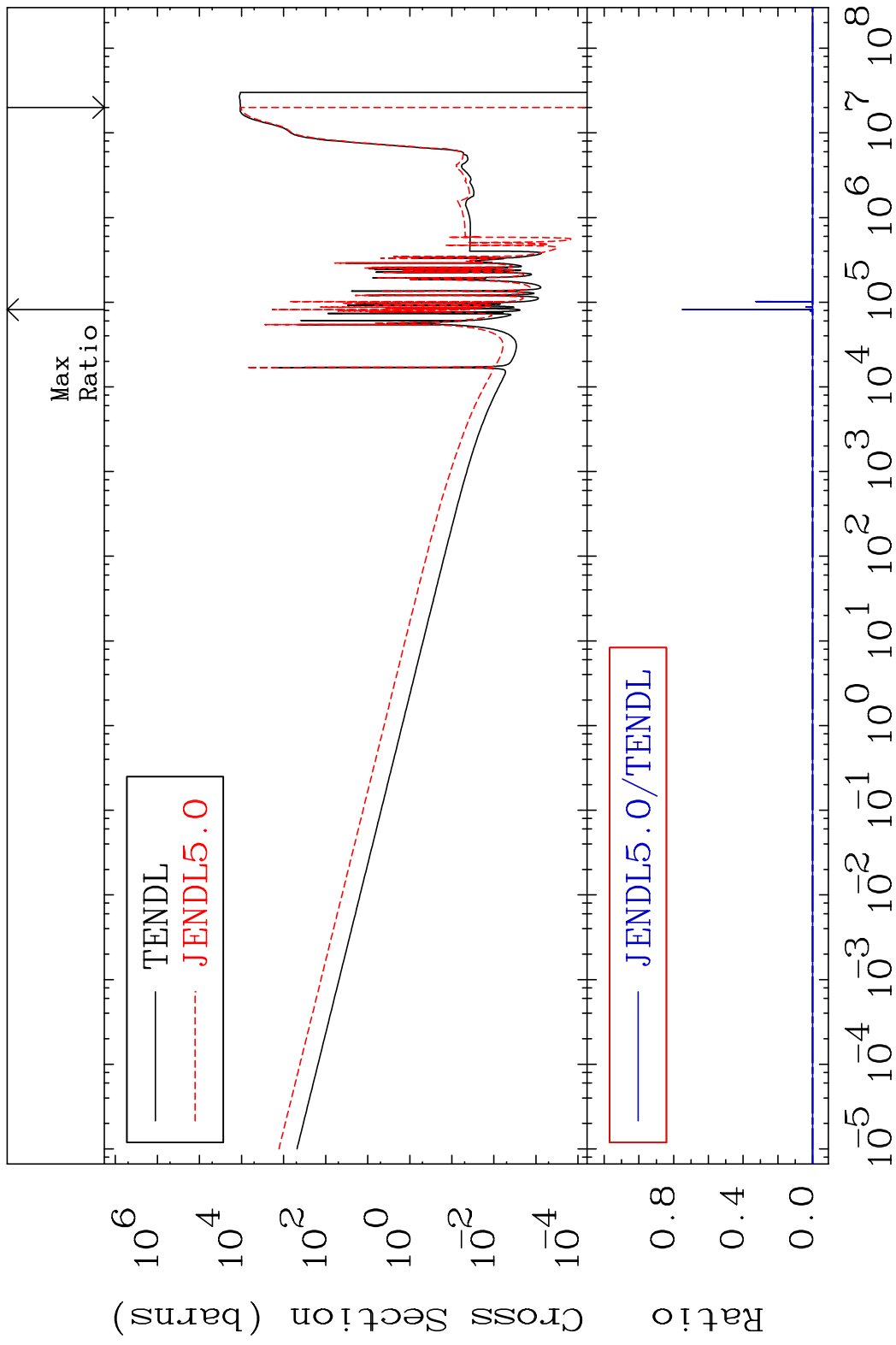


60

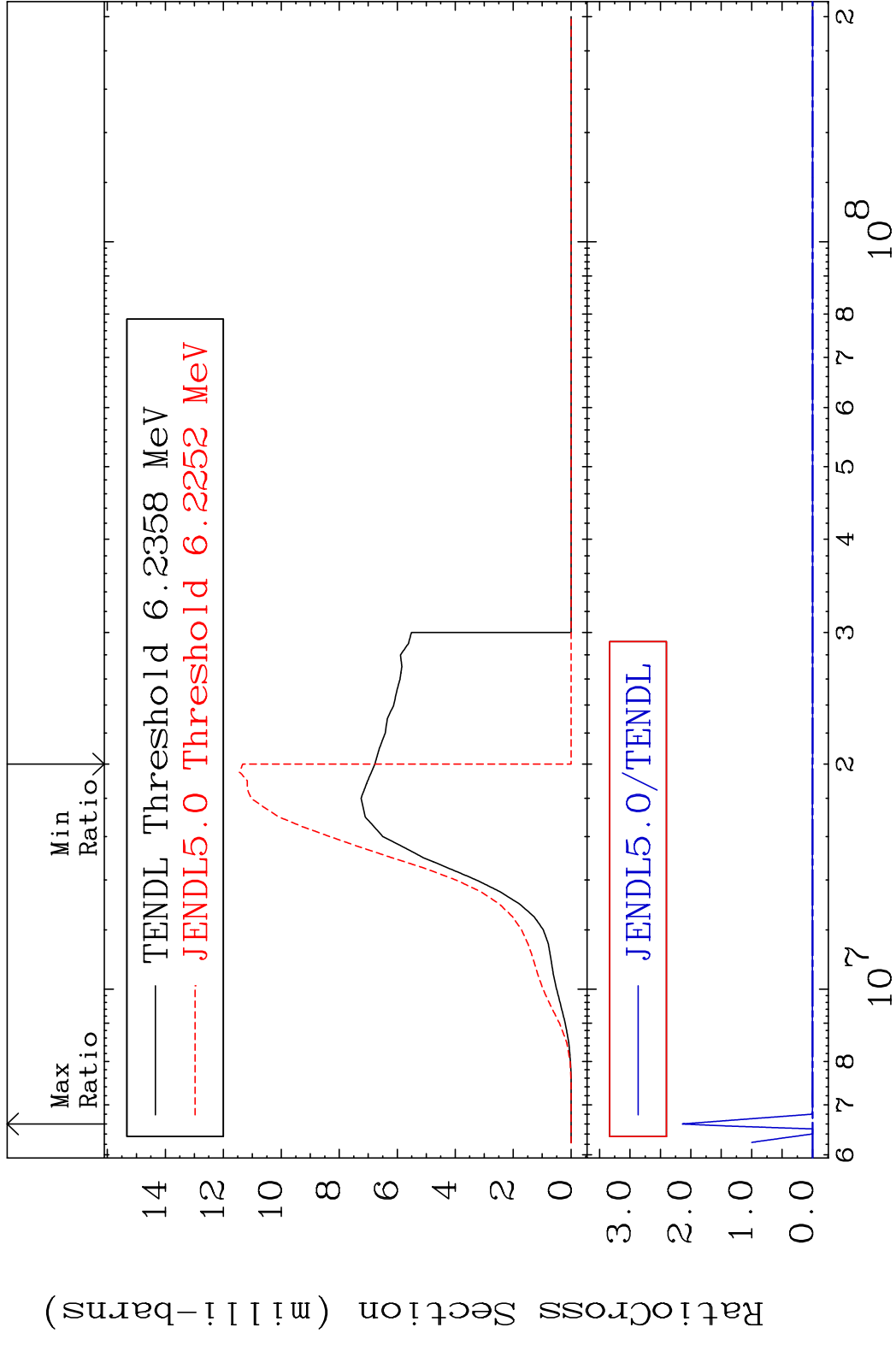
Incident Energy (eV)

22-Ti-50

MAT 2237 Dpa disappearance (mt102 -120) 22-Ti-50  
 Cross Section -100.0 To 9999. %

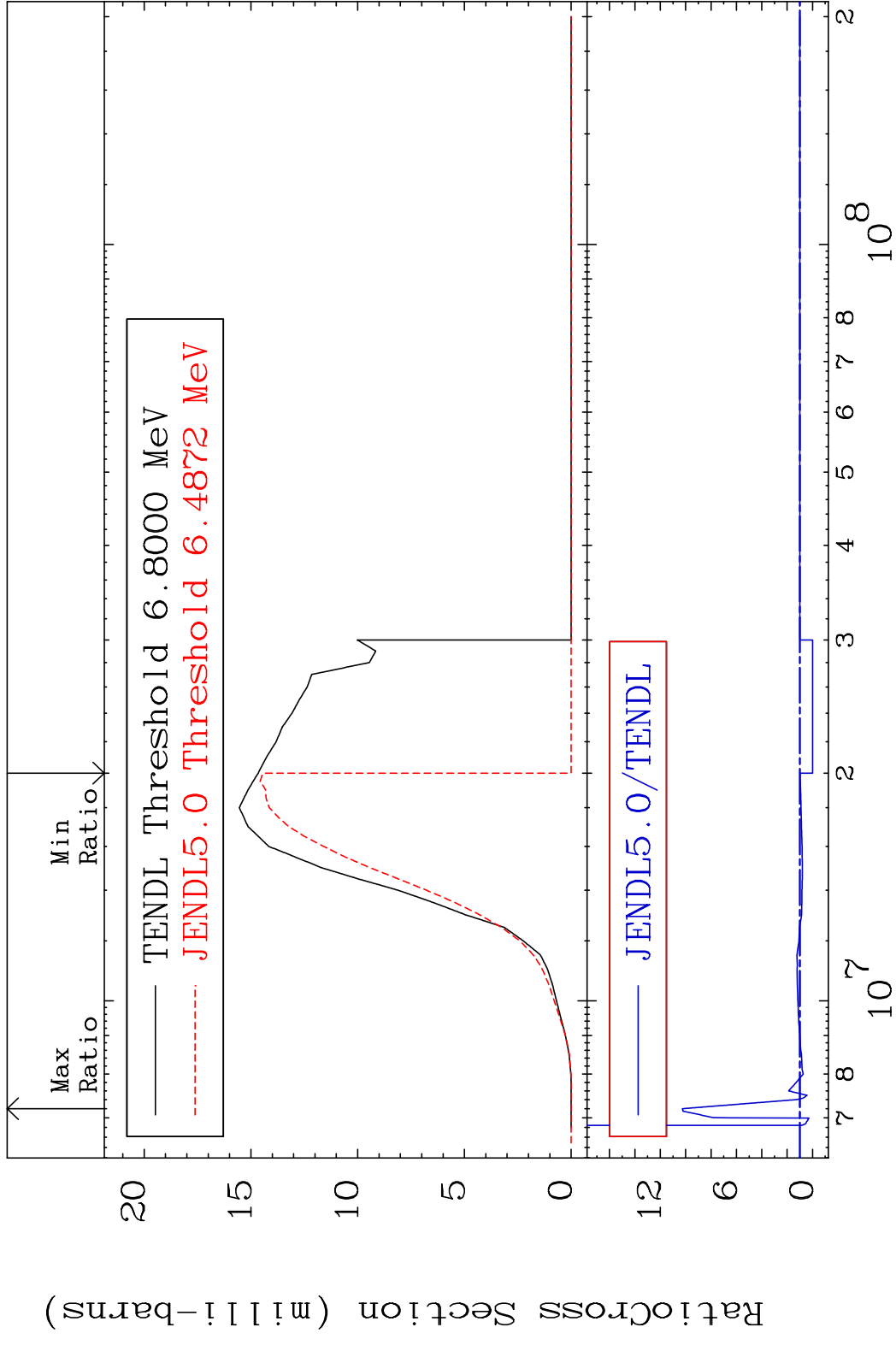


MAT 2237 (n,p):21-Sc-50g 22-Ti-50  
 Radionuclide Production Cross Section Ratio 9999. %



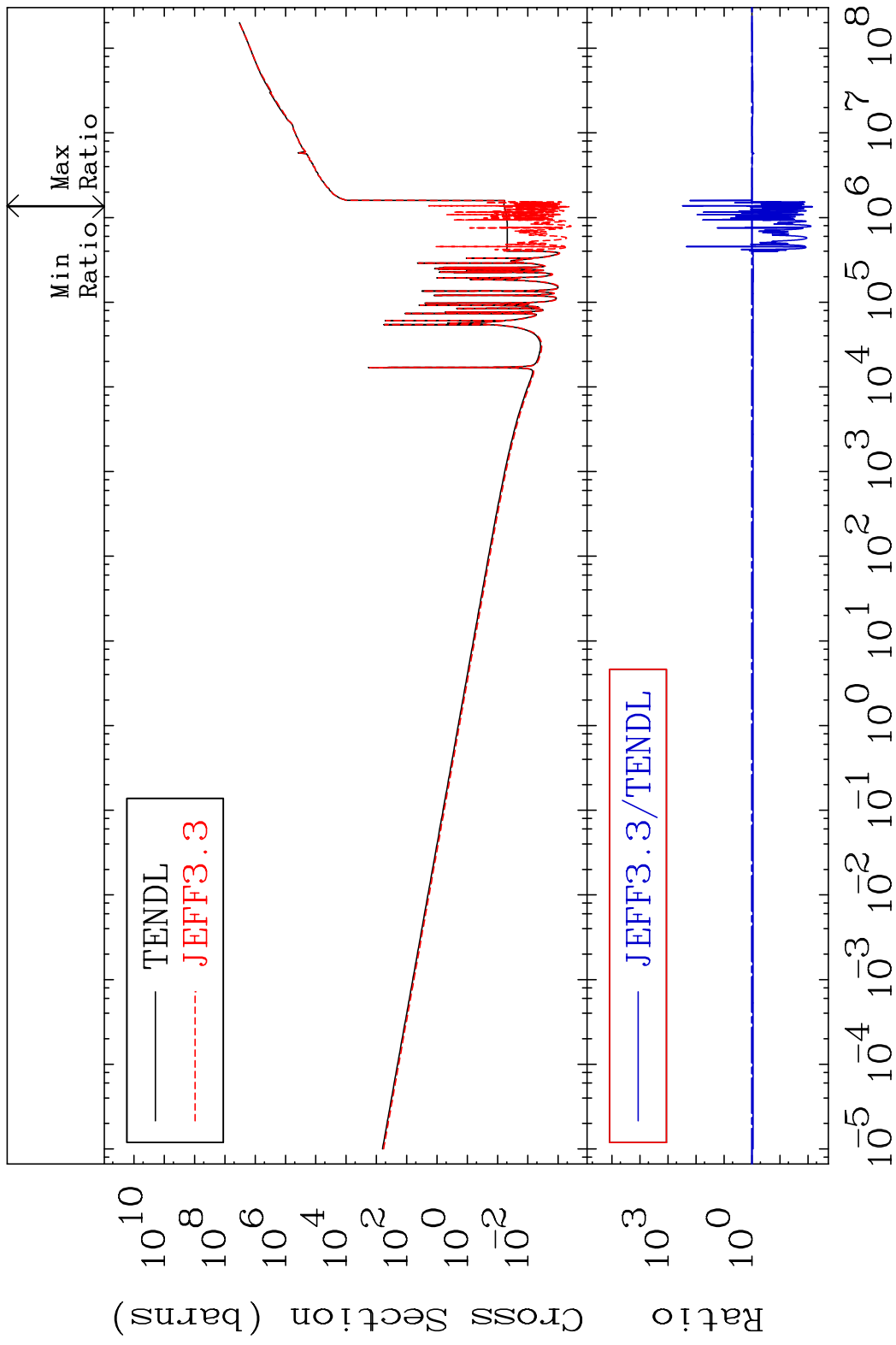
62 Incident Energy (eV) 22-Ti-50

MAT 2237 (n,p):21-Sc-50m1 22-Ti-50  
 Radionuclide Production Cross Section Ratio 925.9 %



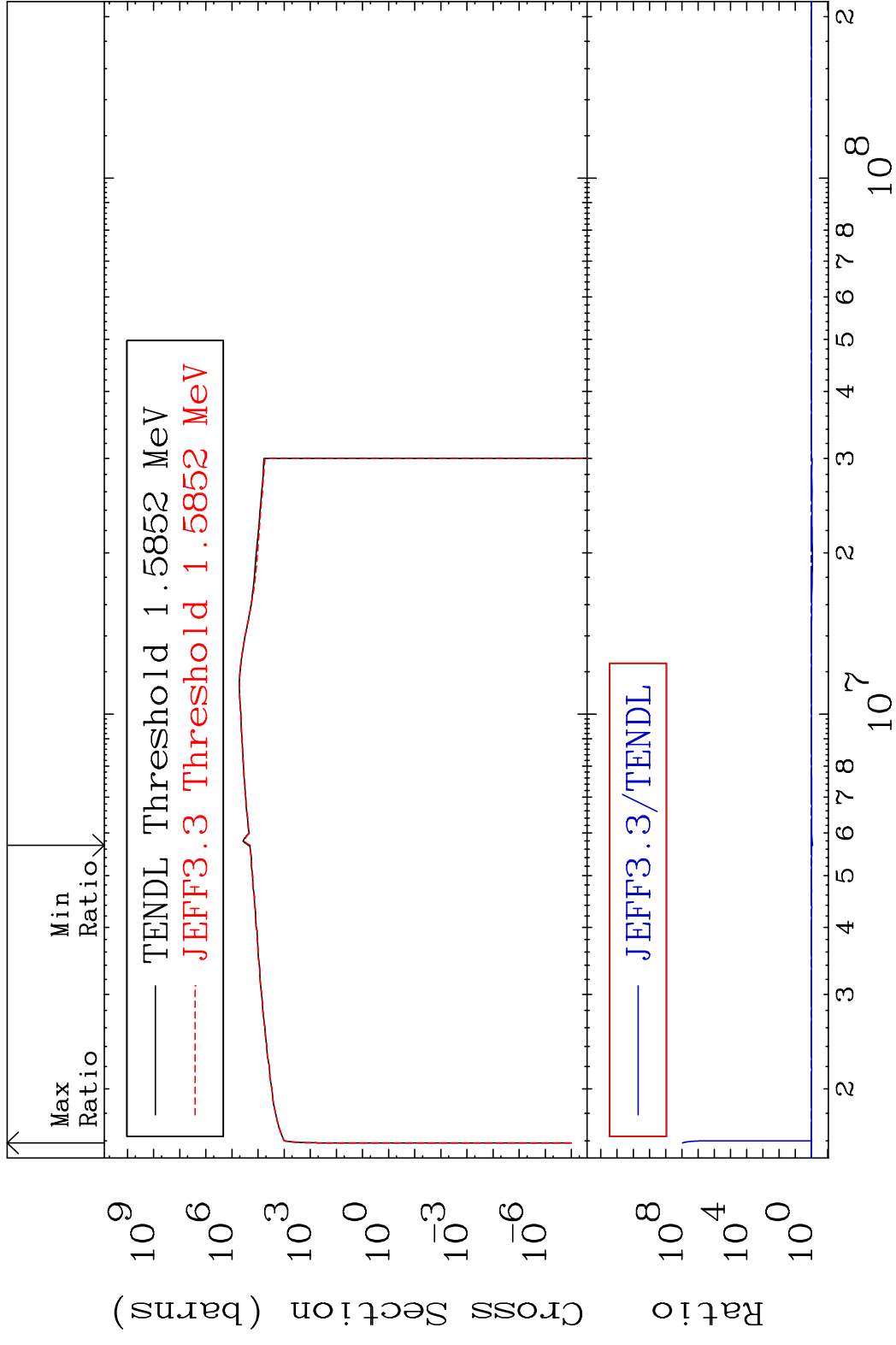


MAT 2237 Kerma non-elastic (all but mt2) 22-Ti-50  
 Cross Section -99.31 To 9999. %

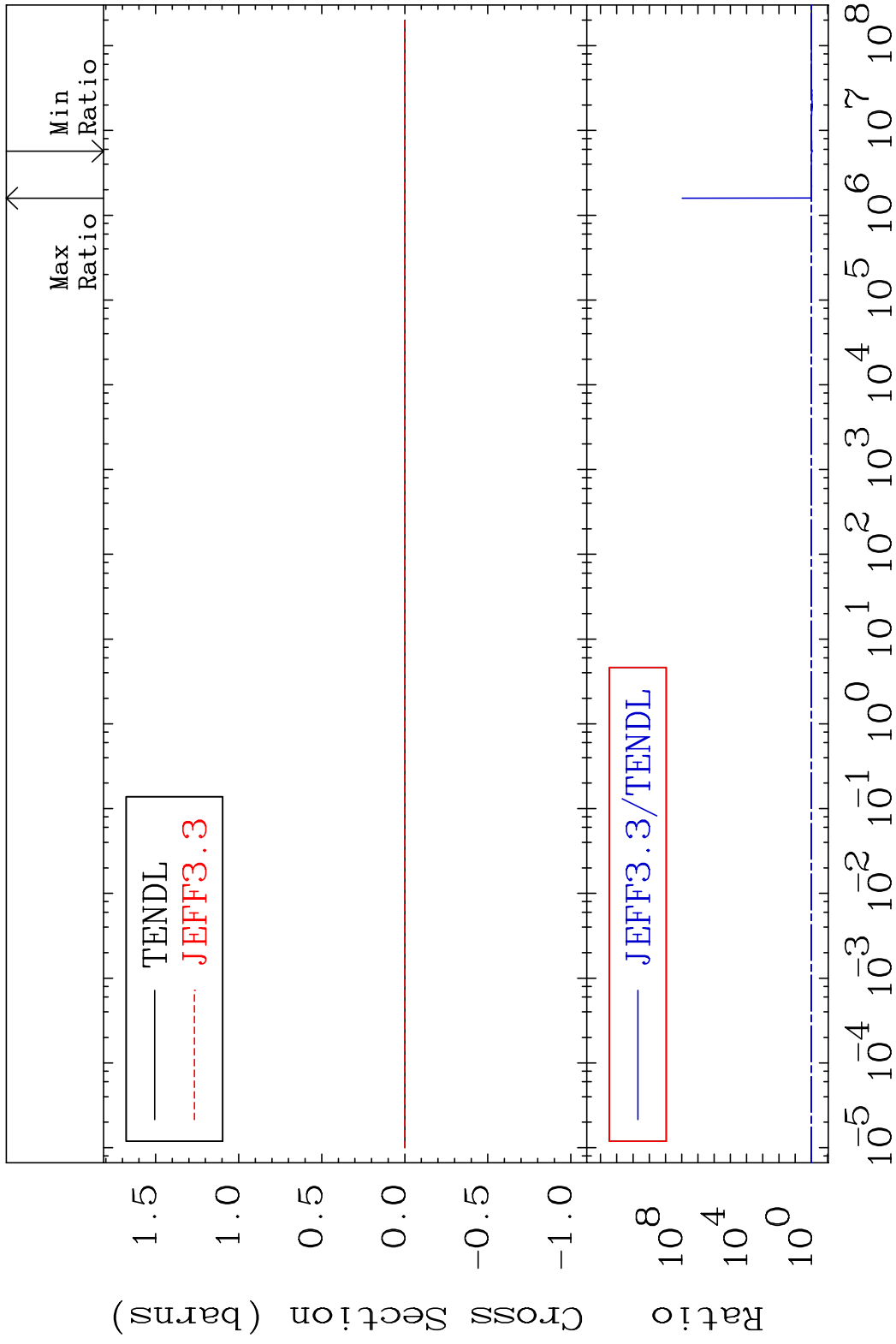


64 Incident Energy (eV) 22-Ti-50

MAT 2237 Kerma inelastic (mt51-91) 22-Ti-50  
 Cross Section -13.55 To 9999. %

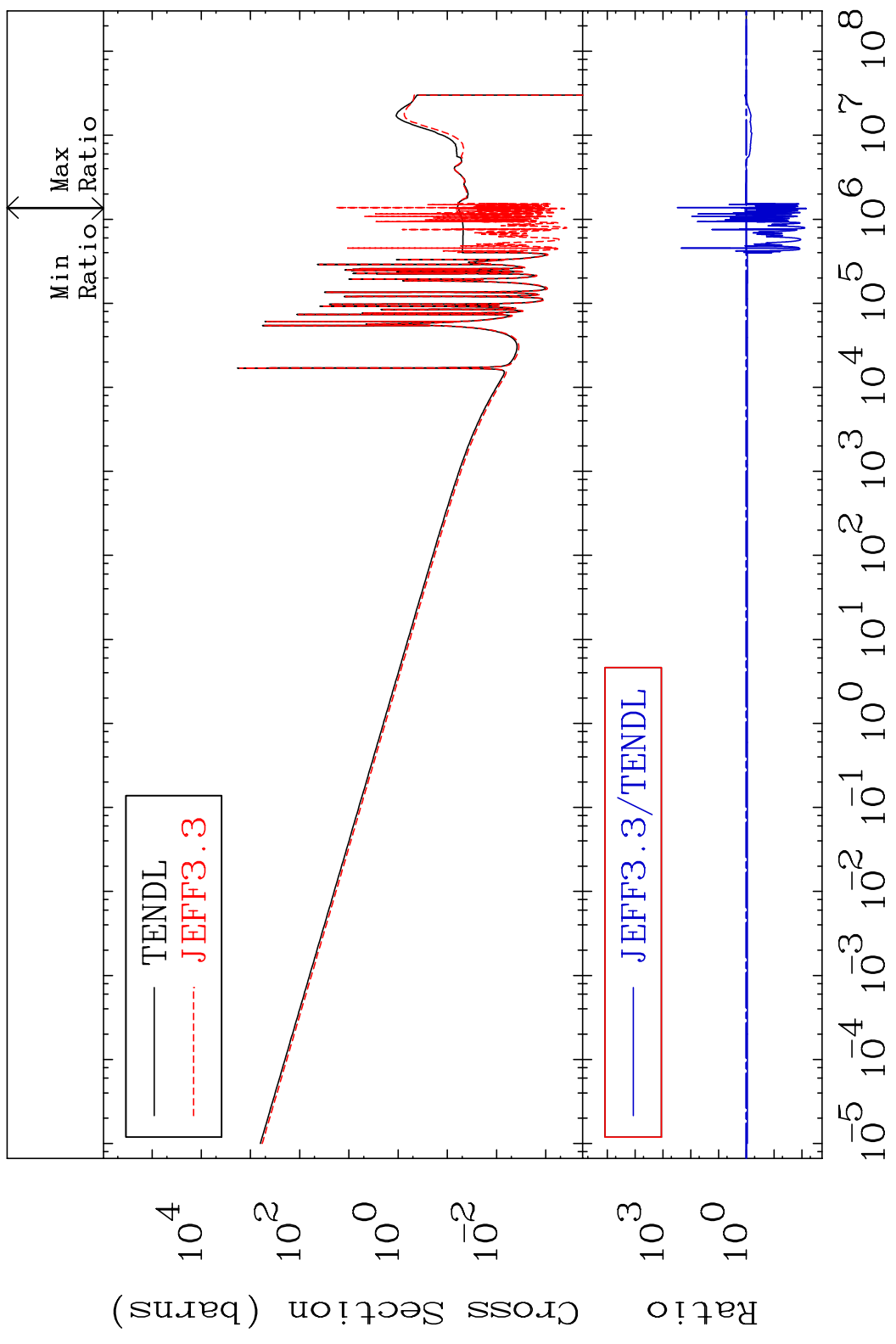


MAT 2237 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-50  
 Cross Section -13.55 To 9999. %



MAT 2237

Kerma capture (mt102) 22-Ti-50  
Cross Section -99.31 To 9999. %



67

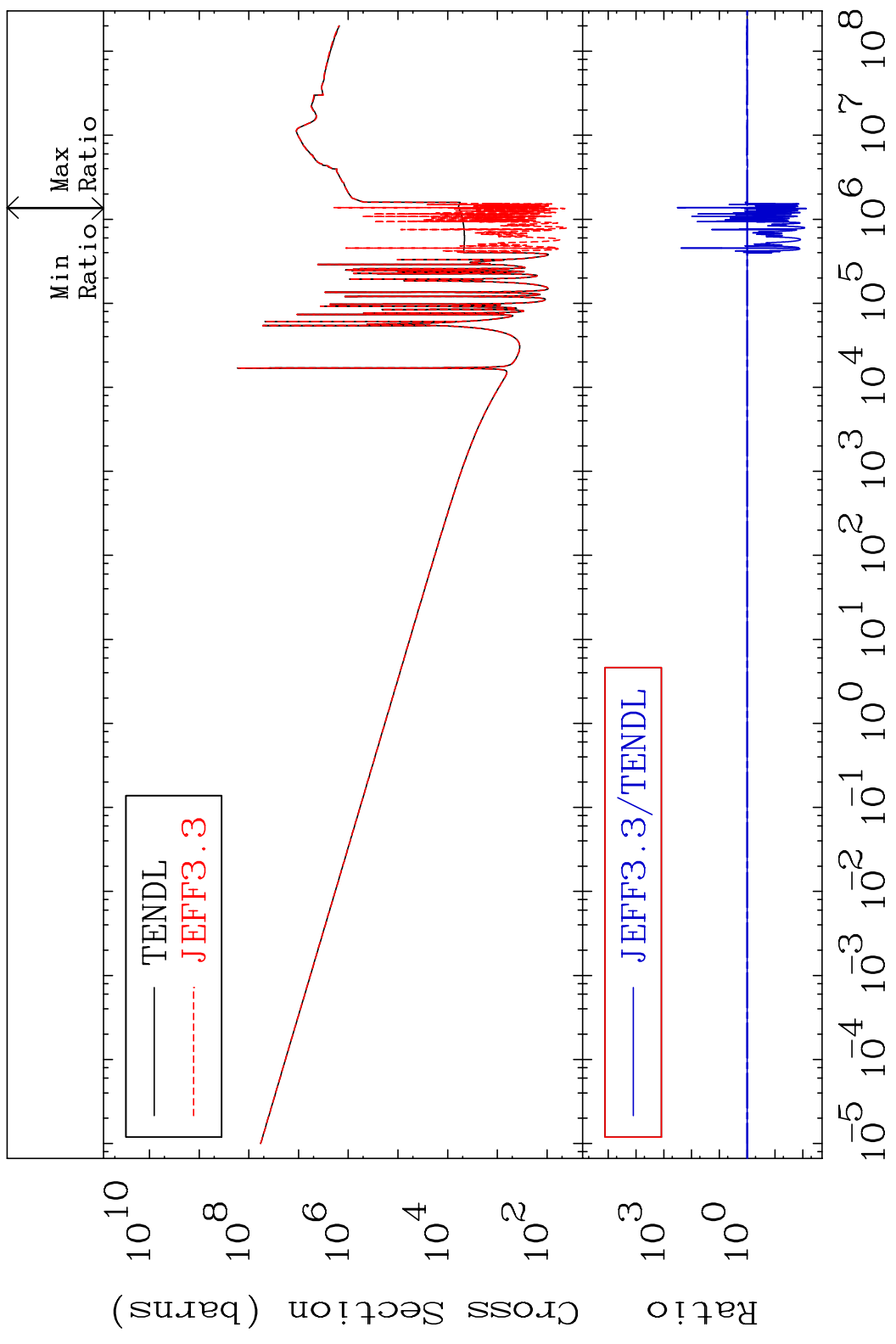
Incident Energy (eV) 22-Ti-50

MAT 2237

Total photon (eV-barns)

22-Ti-50

Cross Section -99.26 To 9999. %

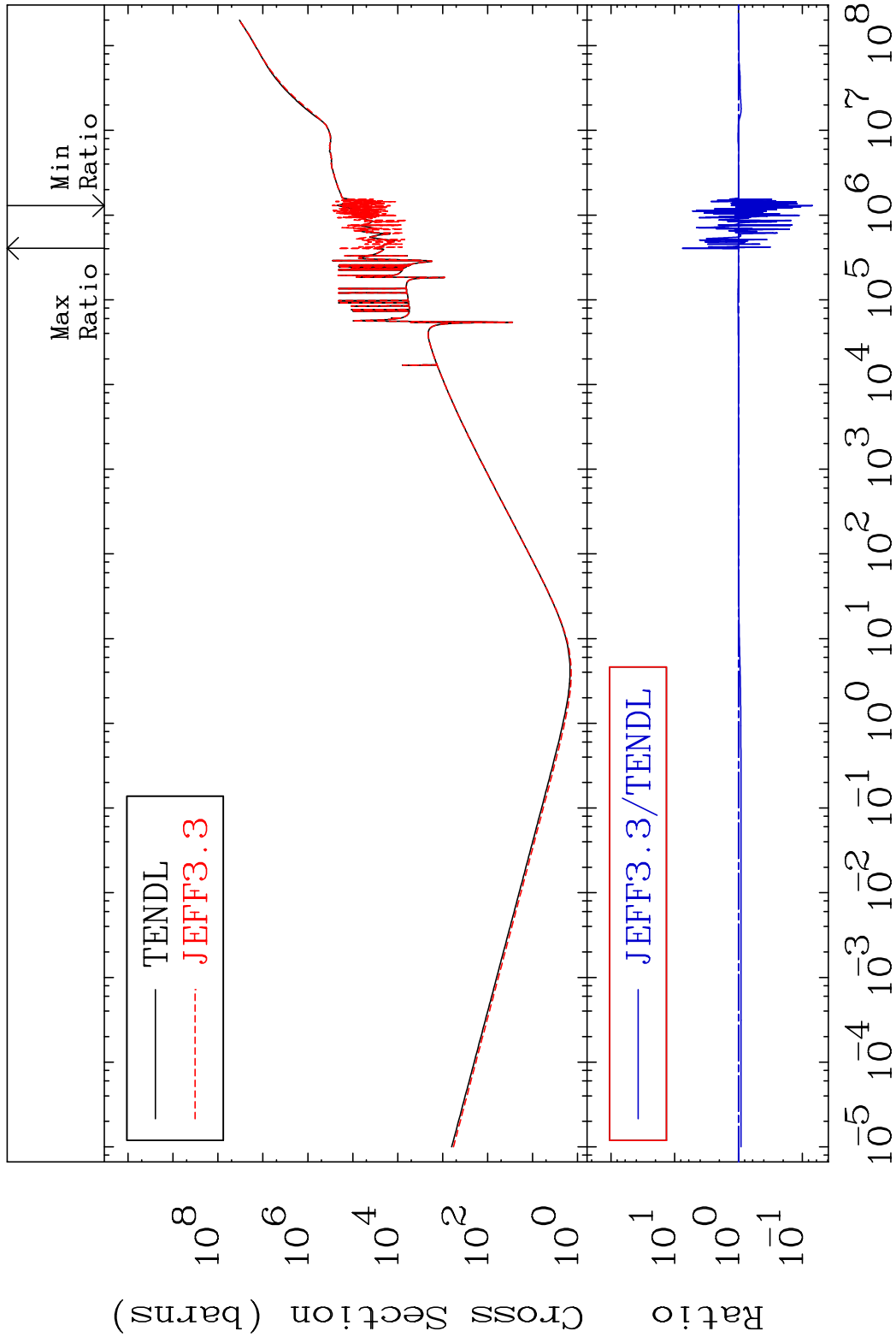


68

Incident Energy (eV)

22-Ti-50

MAT 2237 Total kinematic kerma (high limit) 22-Ti-50  
 Cross Section -93.09 To 659.1 %

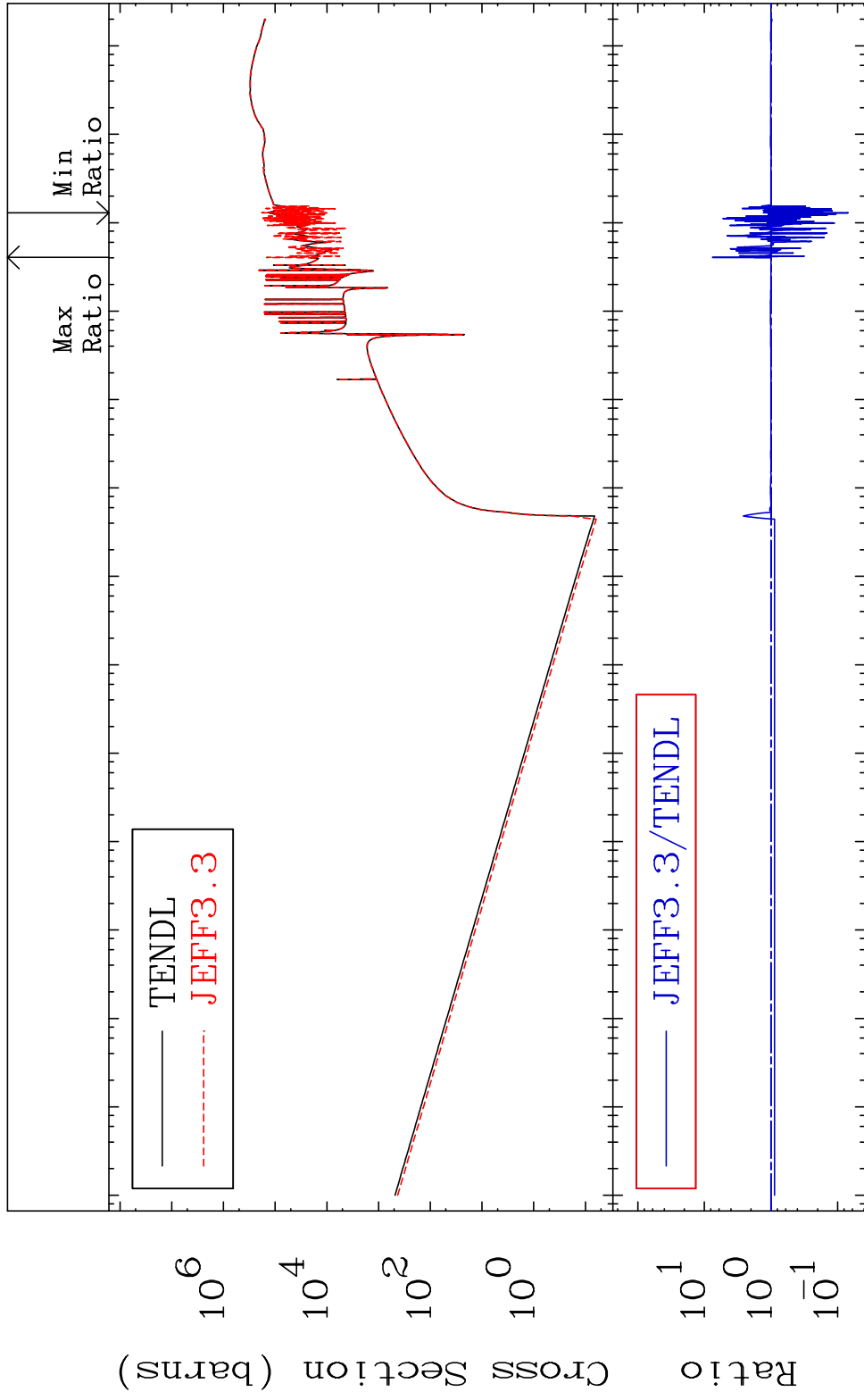


MAT 2237

Dpa total (eV-barns)

22-Ti-50

Cross Section -93.09 To 659.0 %



70

Incident Energy (eV)

22-Ti-50

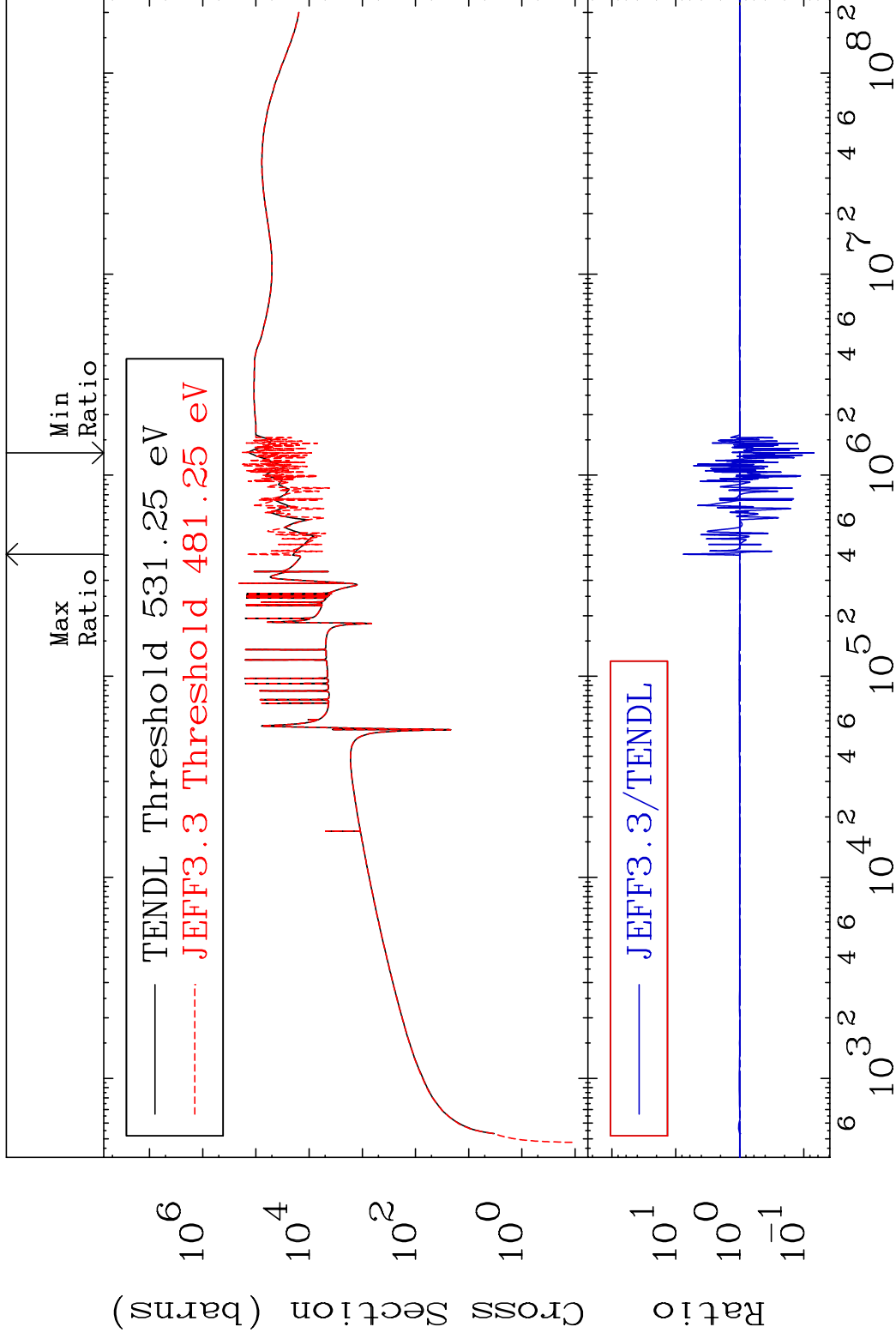
MAT 2237

Dpa elastic (mt2)

22-Ti-50

Cross Section

-93.09 To 659.0 %



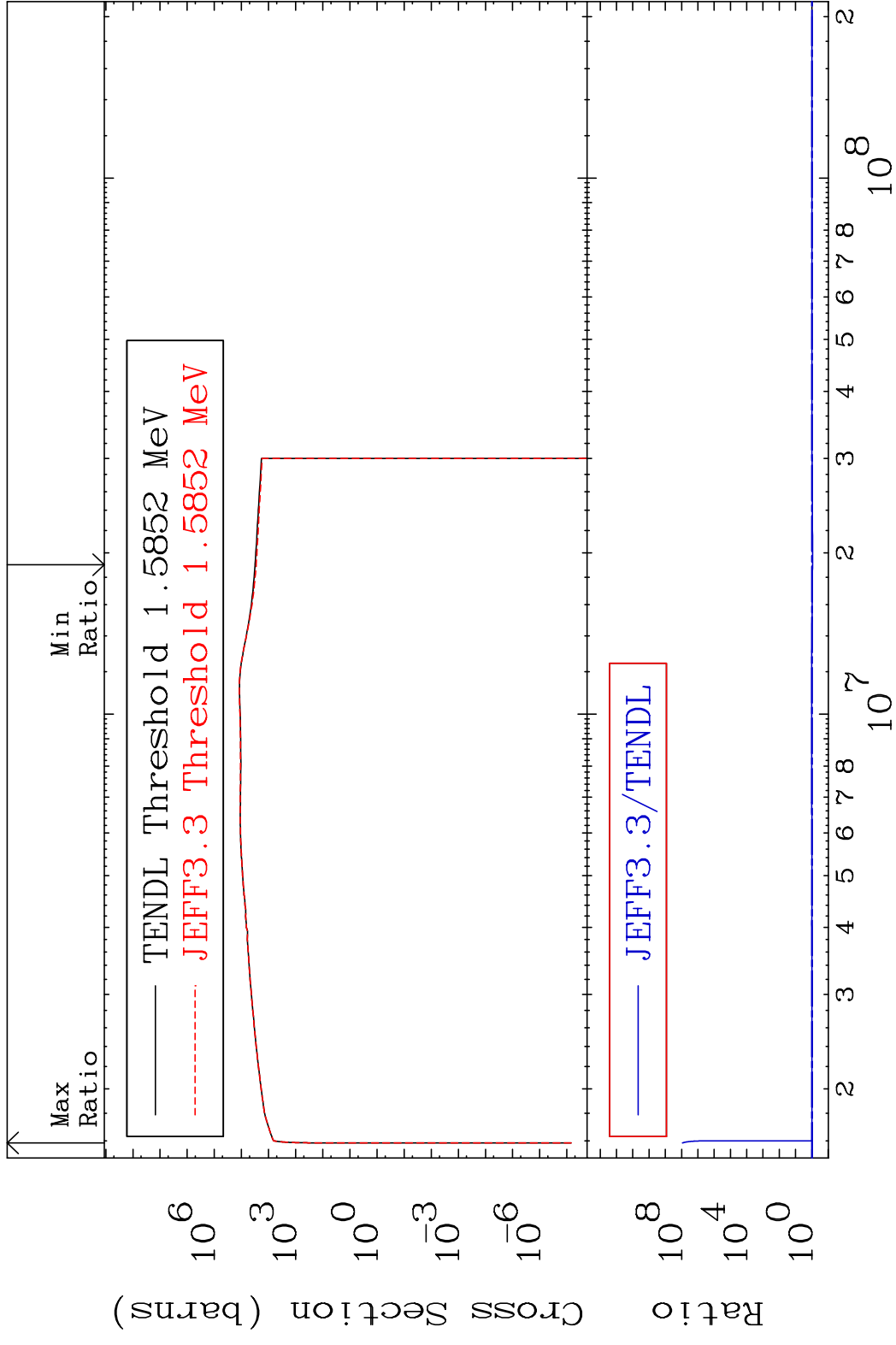
71

Incident Energy (eV)

22-Ti-50

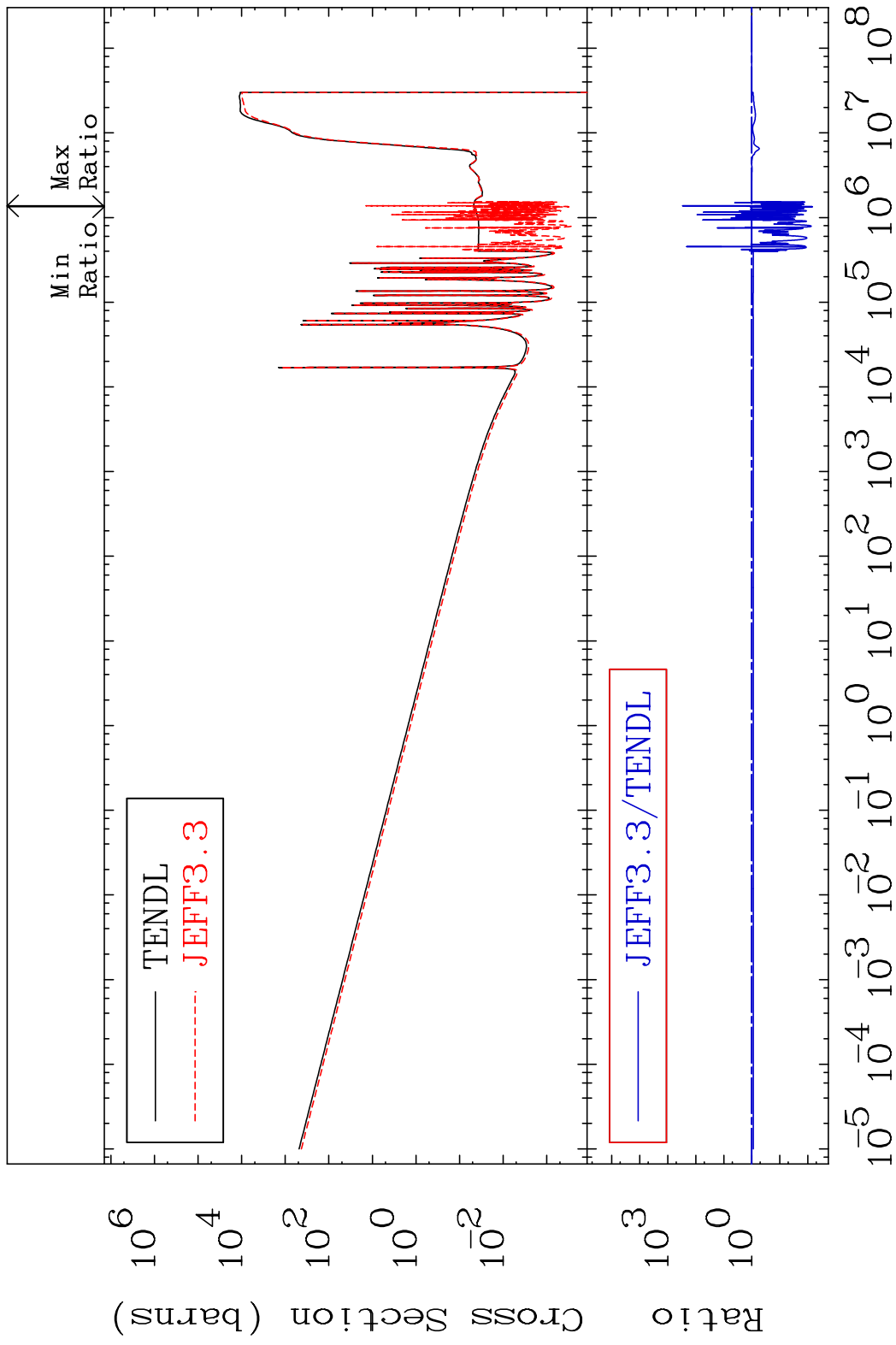


MAT 2237      Dpa inelastic (mt51-91)      22-Ti-50  
 Cross Section    -9.690 To 9999. %



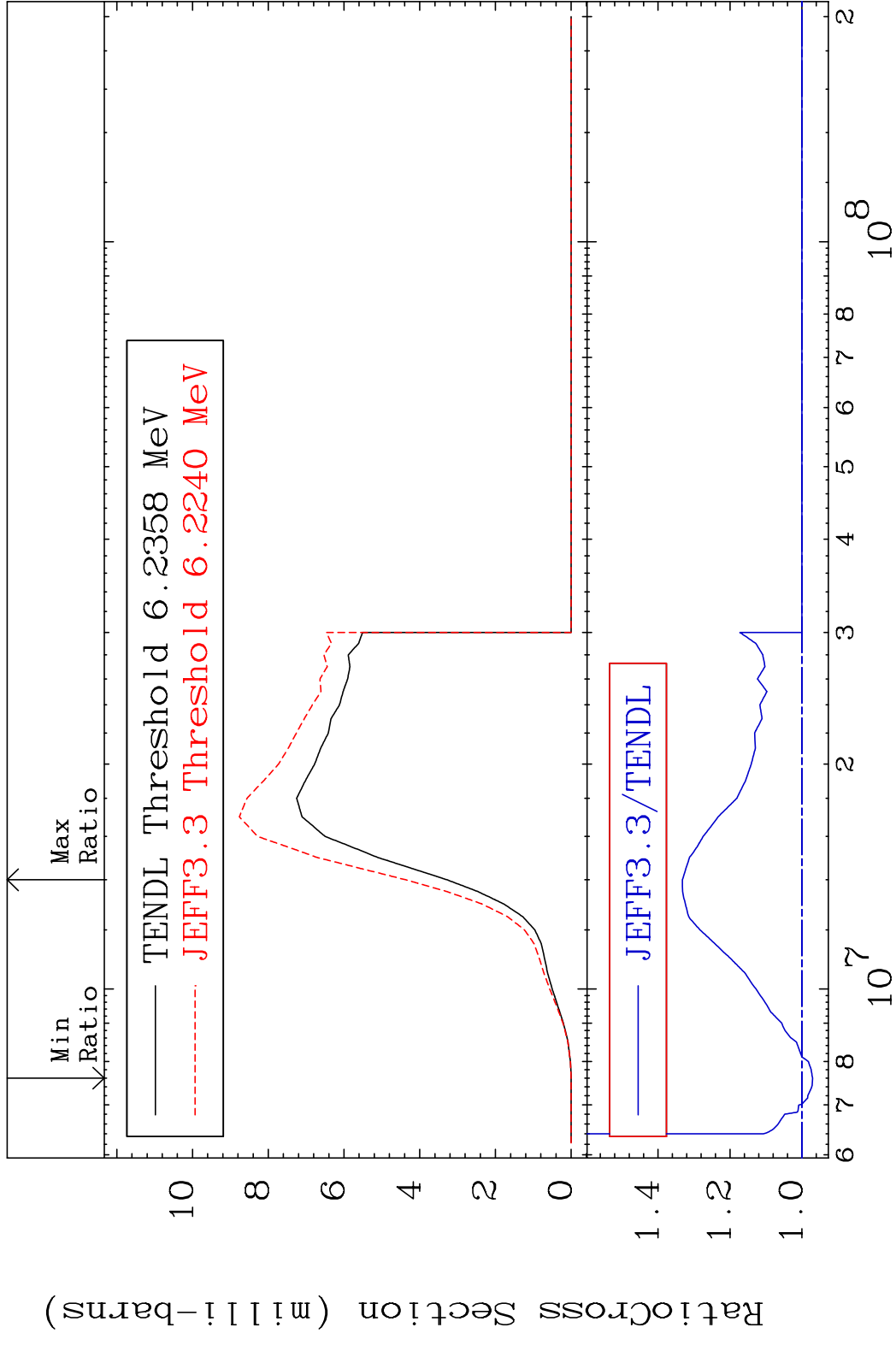
72      Incident Energy (eV)      22-Ti-50

MAT 2237 Dpa disappearance (mt102 -120) 22-Ti-50  
 Cross Section -99.32 To 9999. %



73 Incident Energy (eV) 22-Ti-50

MAT 2237 (n,p):21-Sc-50g 22-Ti-50  
 Radionuclide Production Cross Section 33.22 %



MAT 2237 (n,p):21-Sc-50m1 22-Ti-50  
 Radionuclide Production Cross Section 0.000 %

