

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

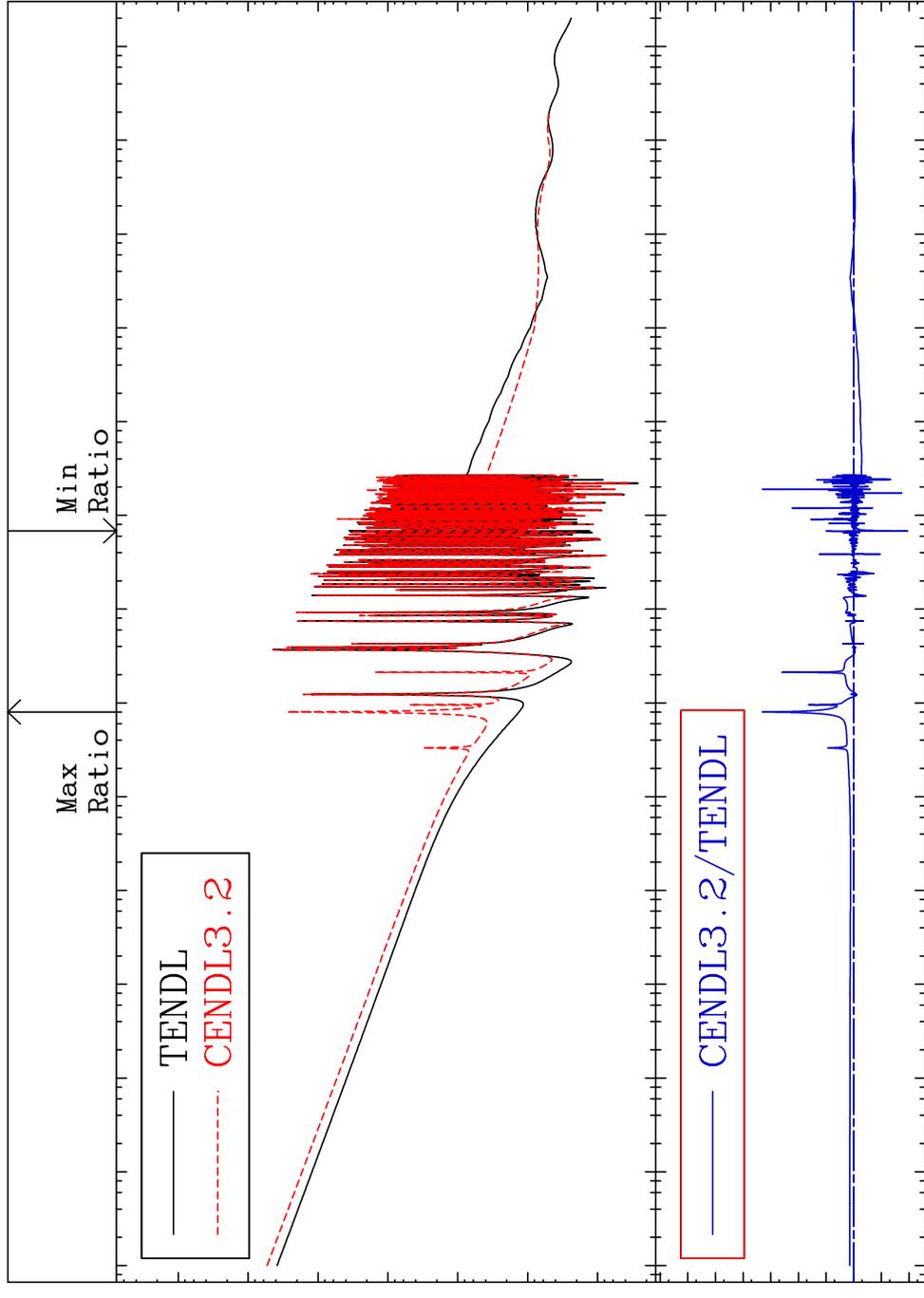
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6425

Total Cross Section -98.86 To 9999. %

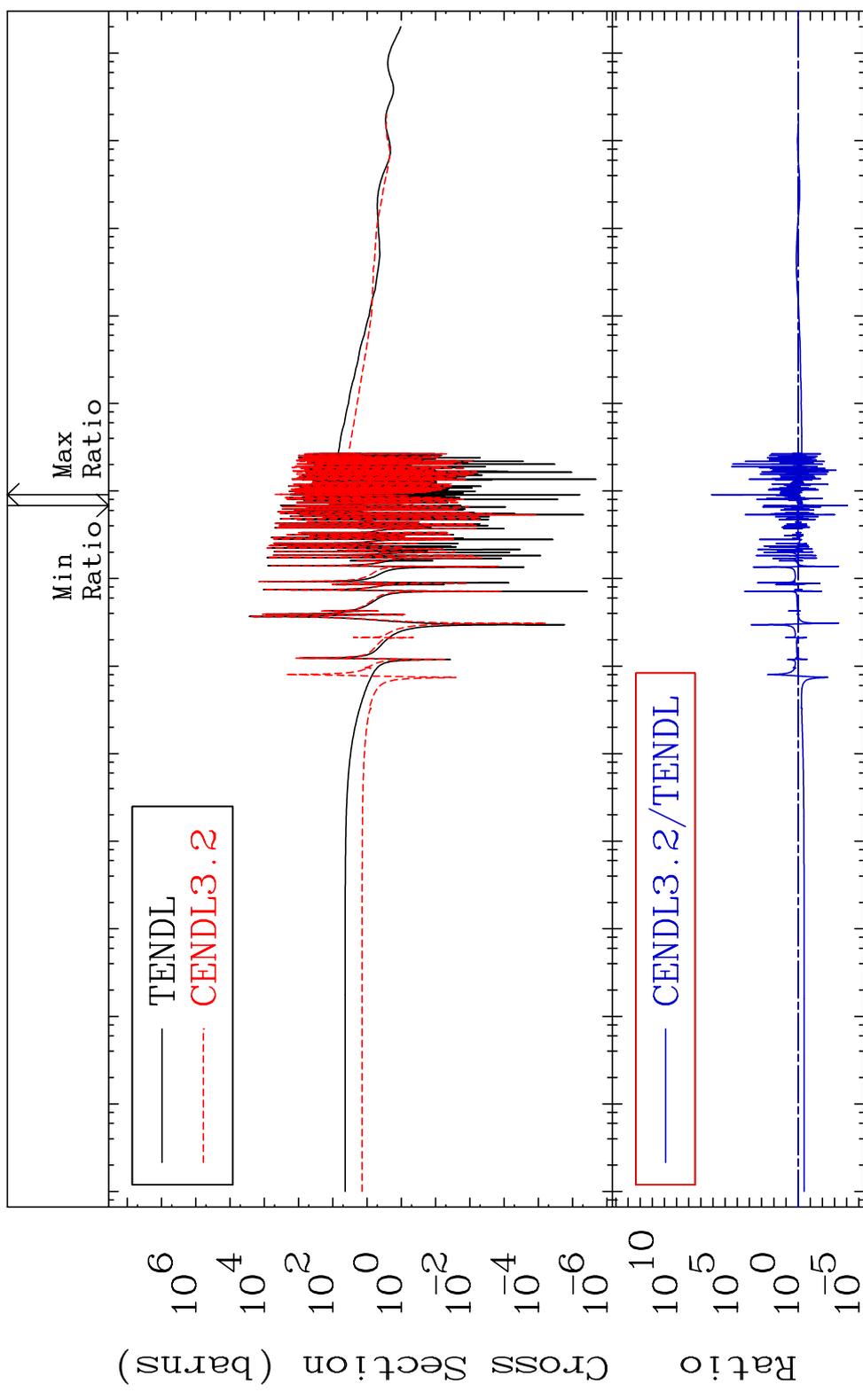
64-Gd-152



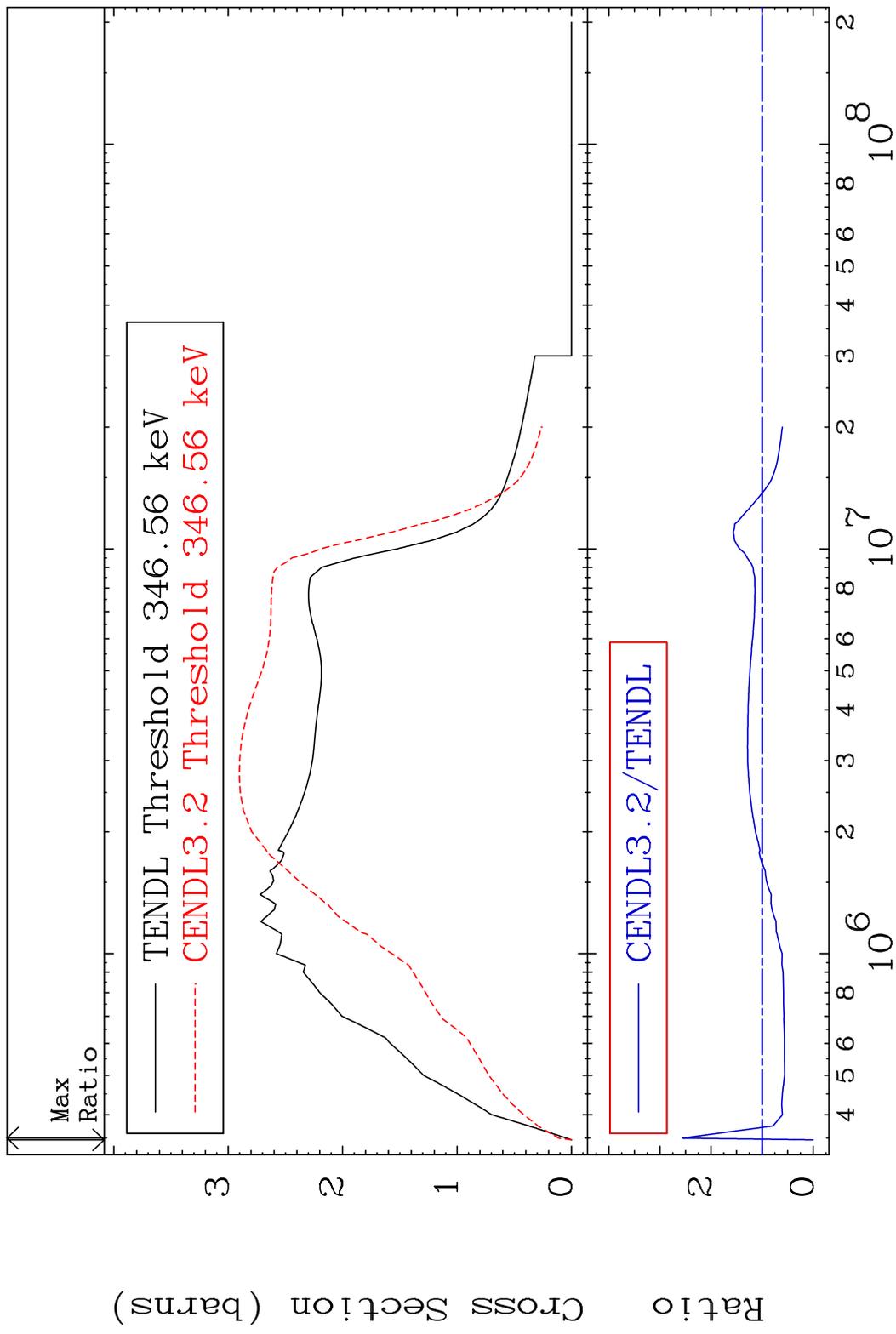
1 Incident Energy (eV) 64-Gd-152

MAT 6425

Elastic Cross Section -99.99 To 9999. % 64-Gd-152



MAT 6425 Inelastic 64-Gd-152  
 Cross Section -100.0 To 155.3 %



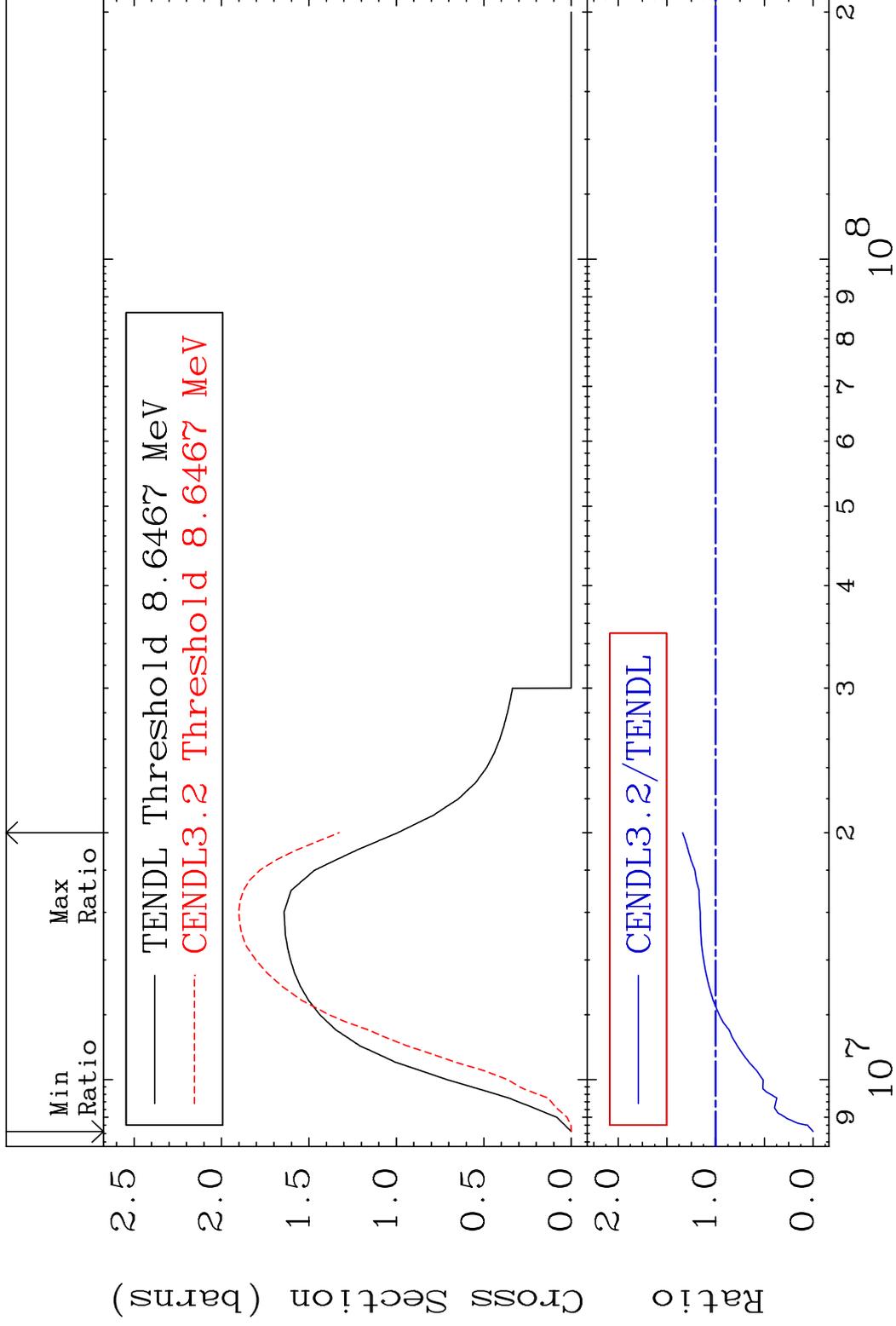
3 3 Incident Energy (eV) 64-Gd-152

MAT 6425

(n,2n)

64-Gd-152

Cross Section -100.0 To 33.86 %



4

Incident Energy (eV)

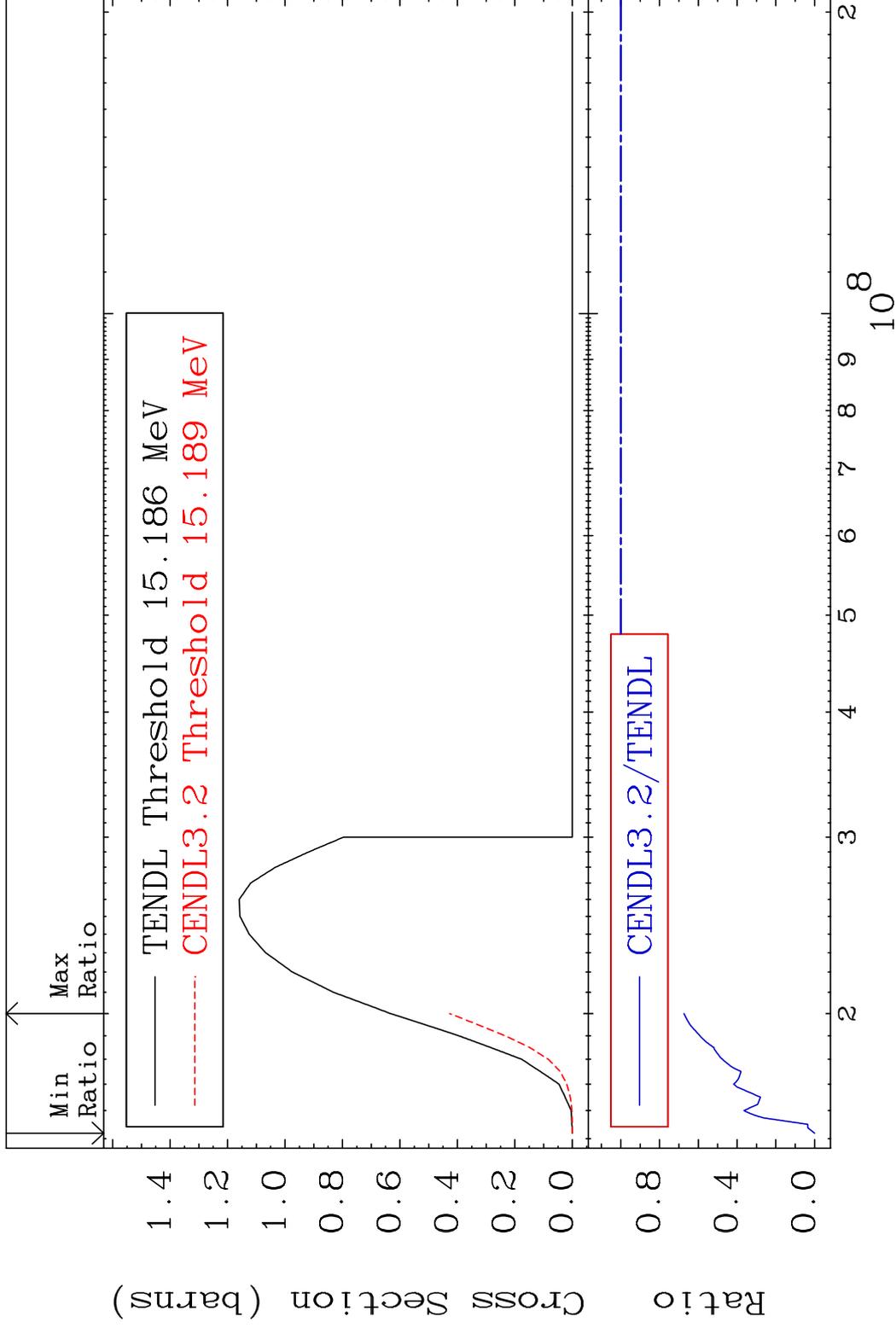
64-Gd-152

MAT 6425

(n,3n)

64-Gd-152

Cross Section -100.0 To -32.58%



5

Incident Energy (eV)

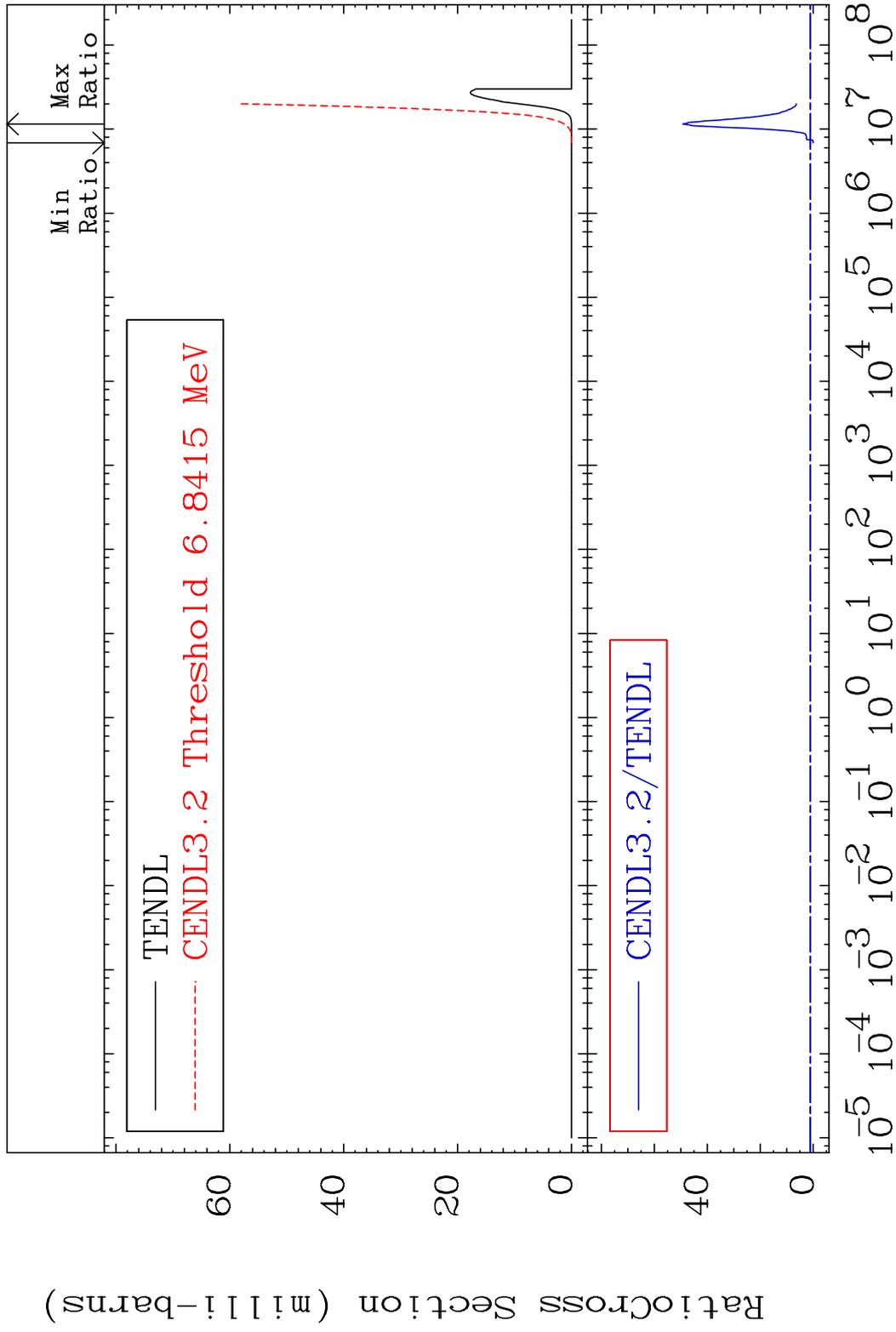
64-Gd-152

MAT 6425

(n, n')  $\alpha$

64-Gd-152

Cross Section -100.0 To 4821. %

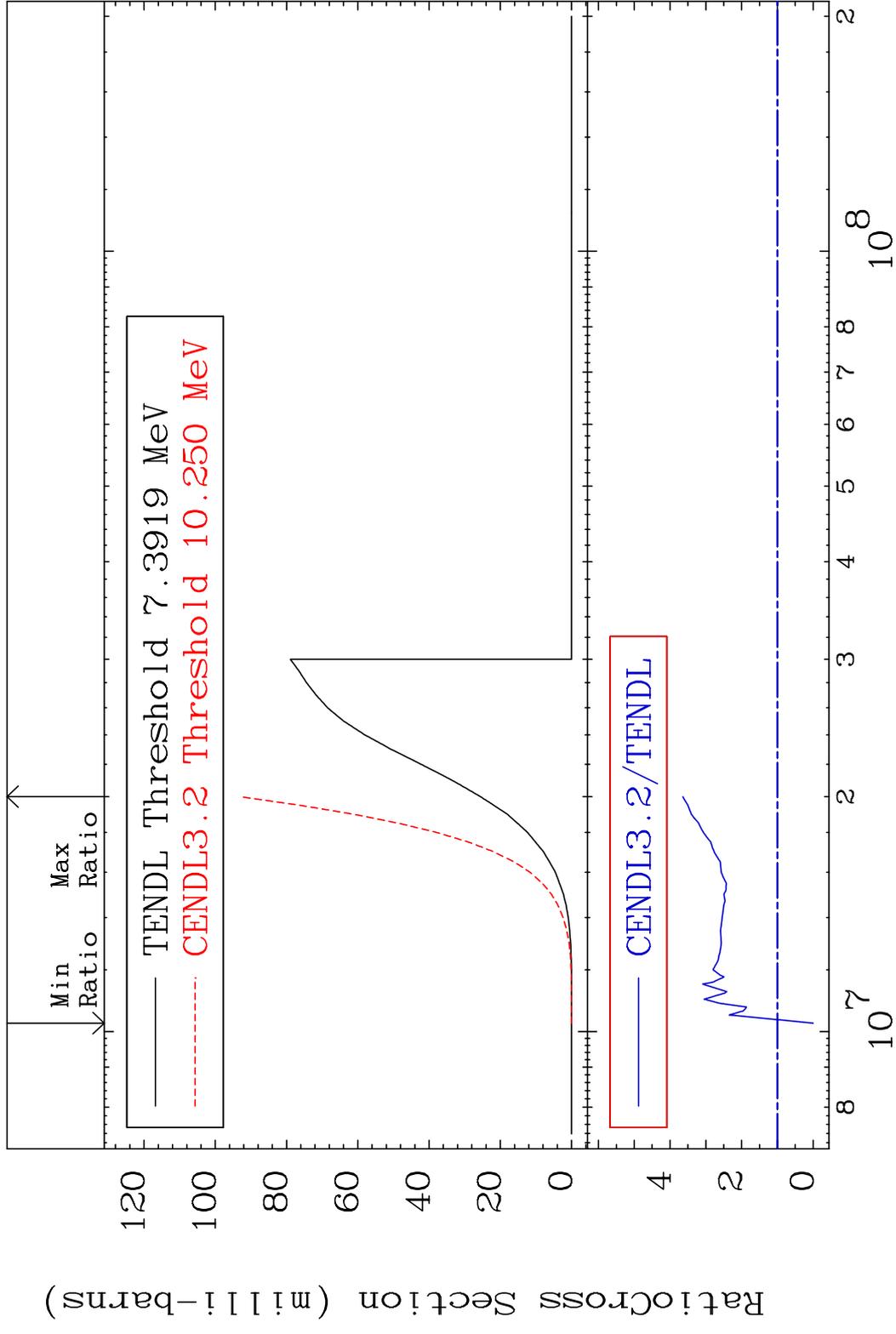


MAT 6425

(n, n') p

64-Gd-152

Cross Section -100.0 To 264.2 %

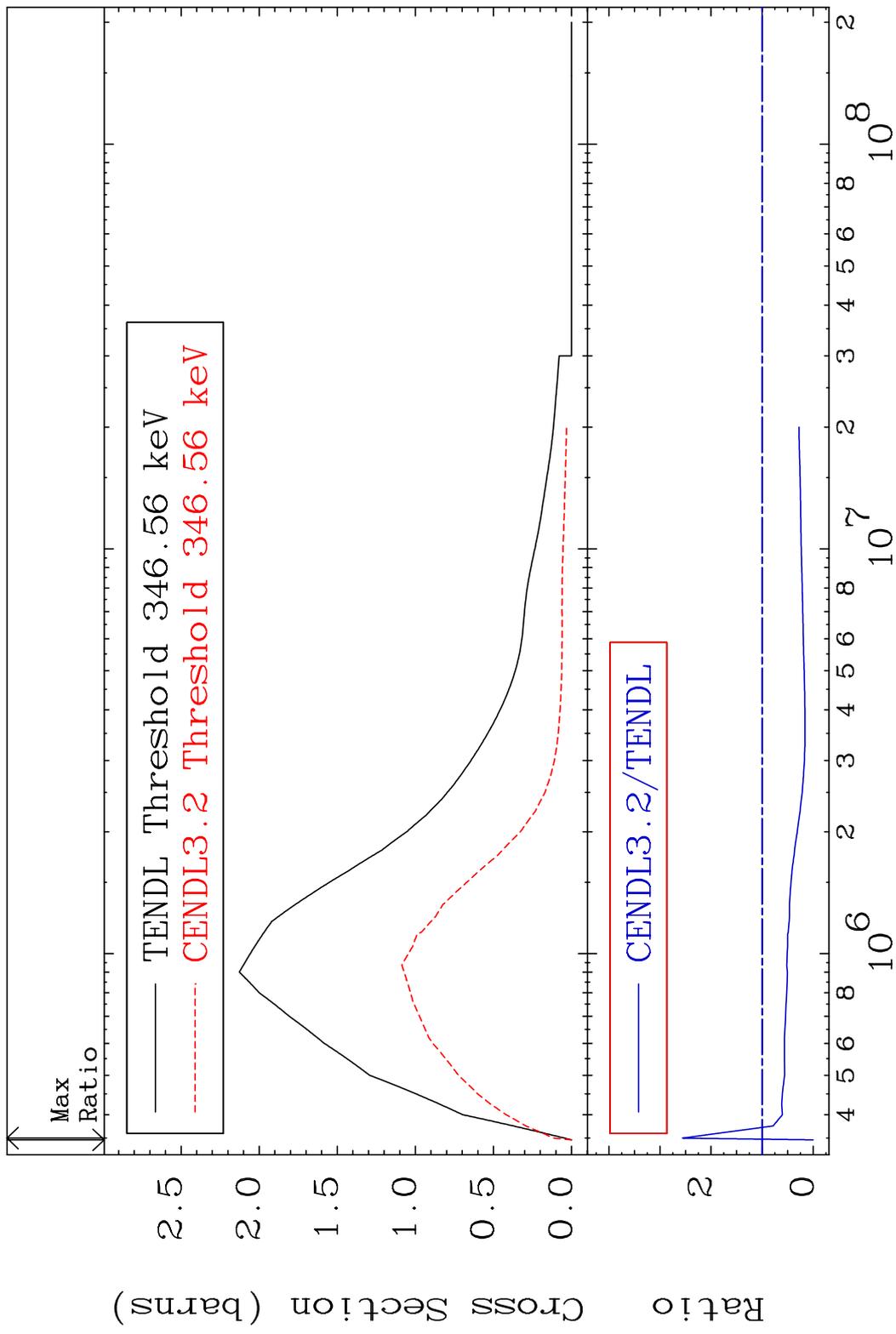


7

Incident Energy (eV)

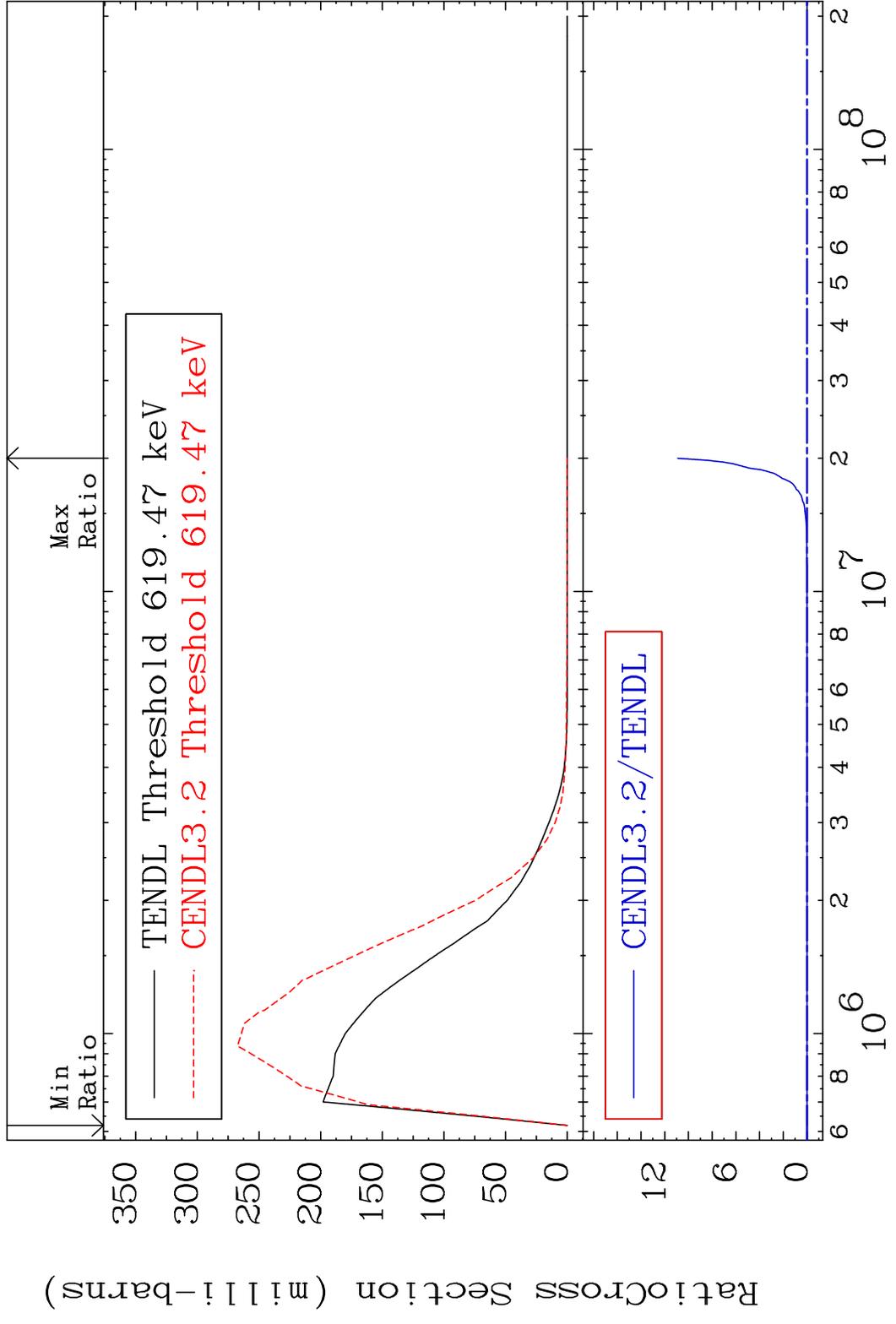
64-Gd-152

MAT 6425 MT= 51 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 155.3 %

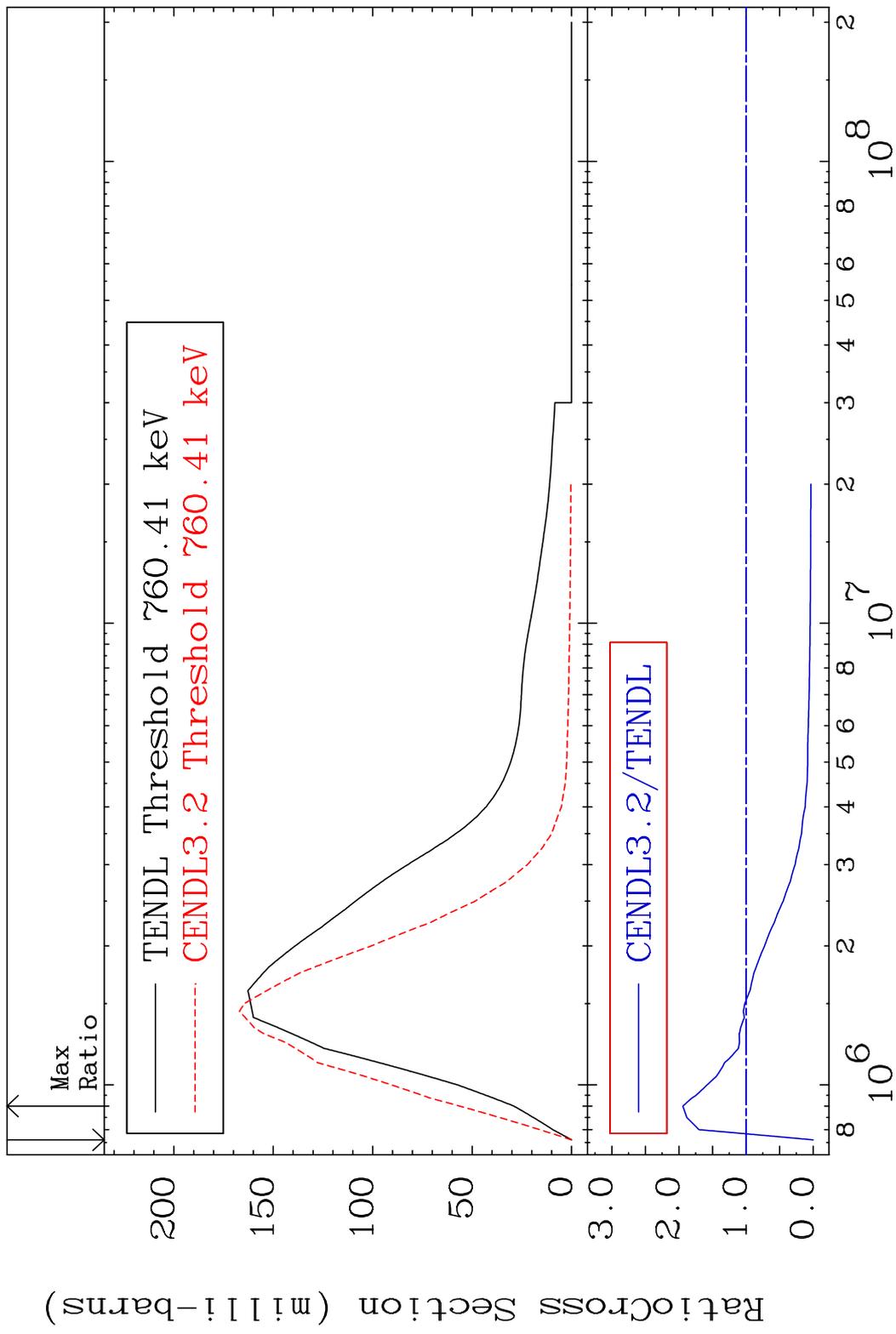


8 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 52 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 9999. %

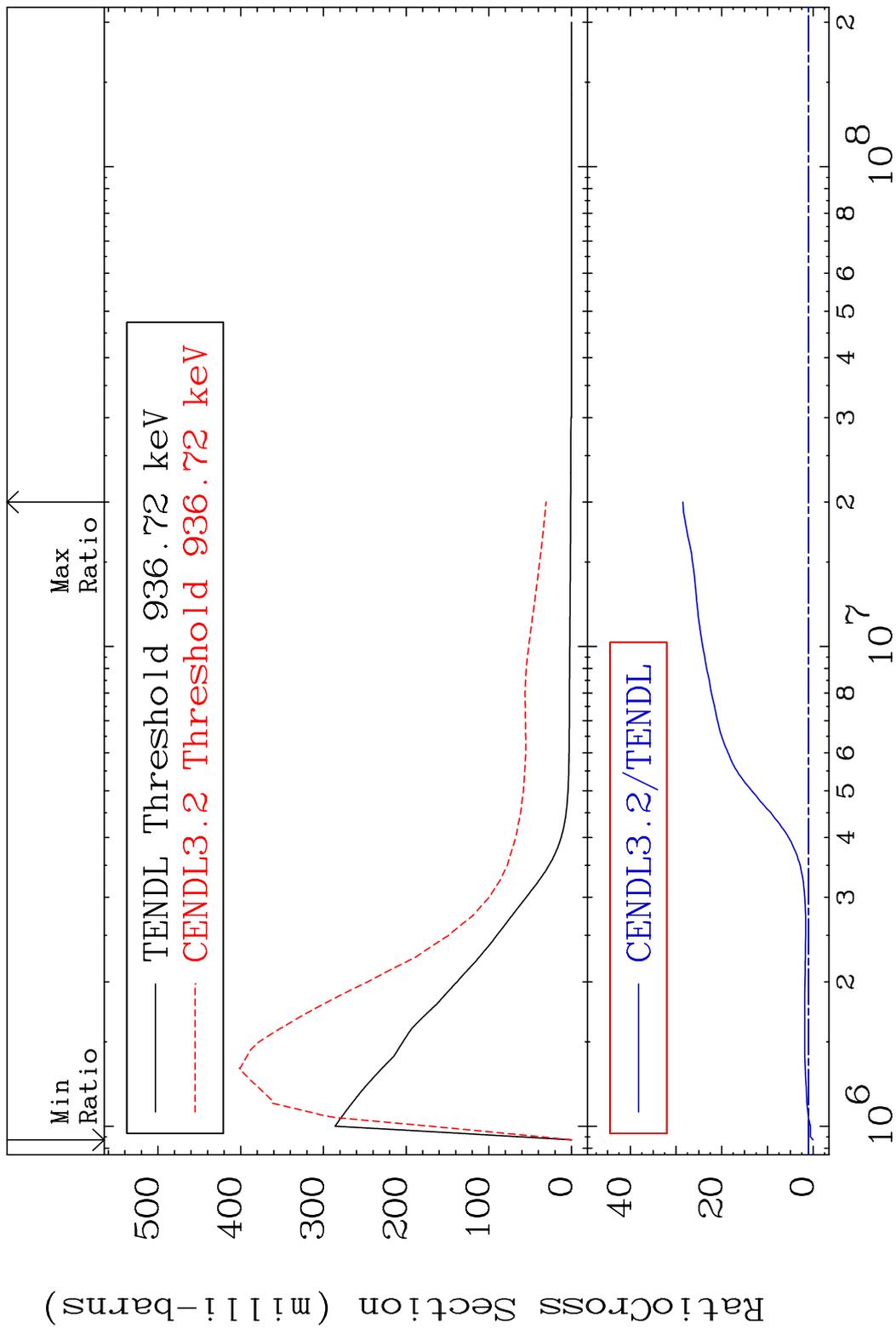


MAT 6425 MT= 53 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 94.19 %



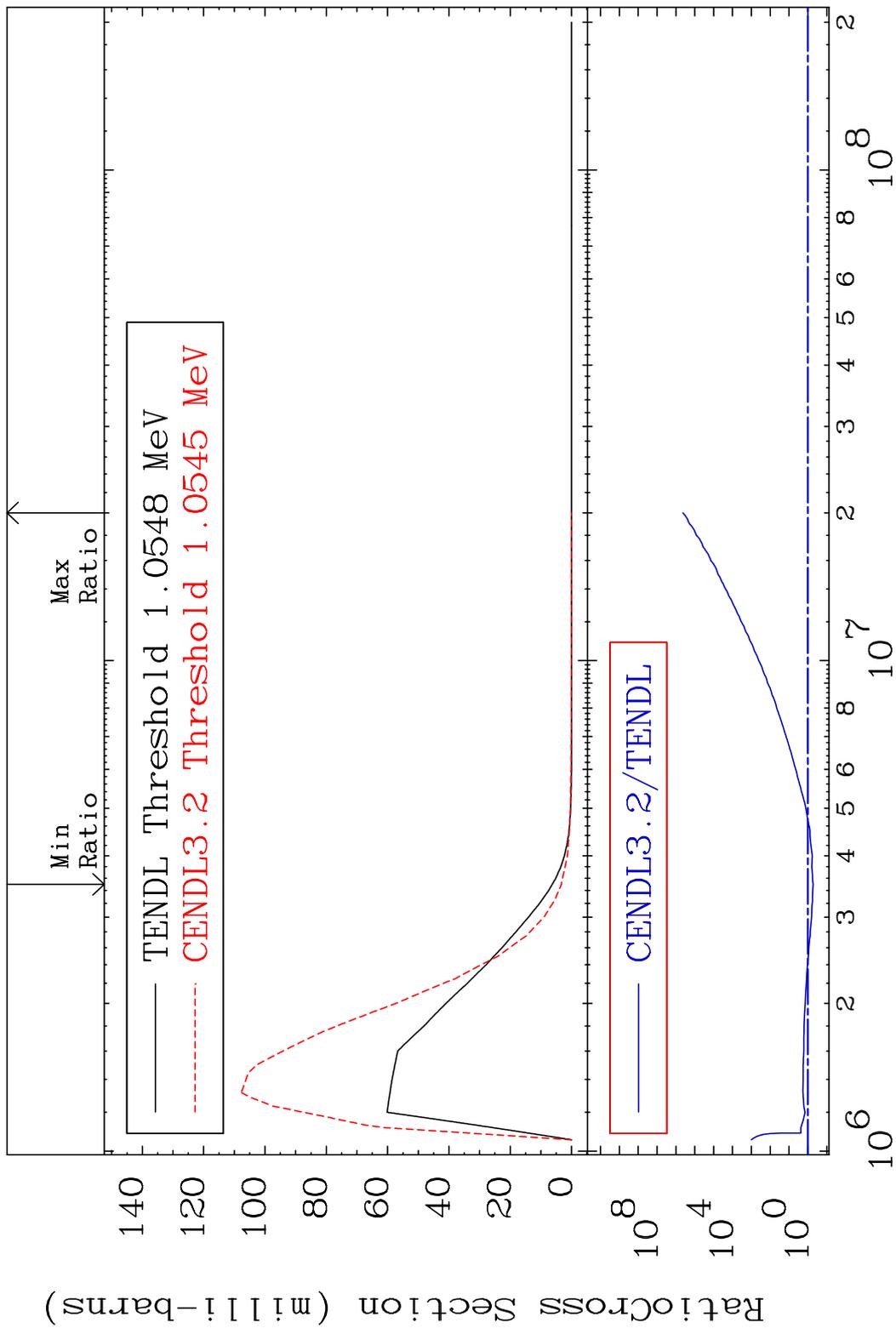
10 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 54 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 2752. %



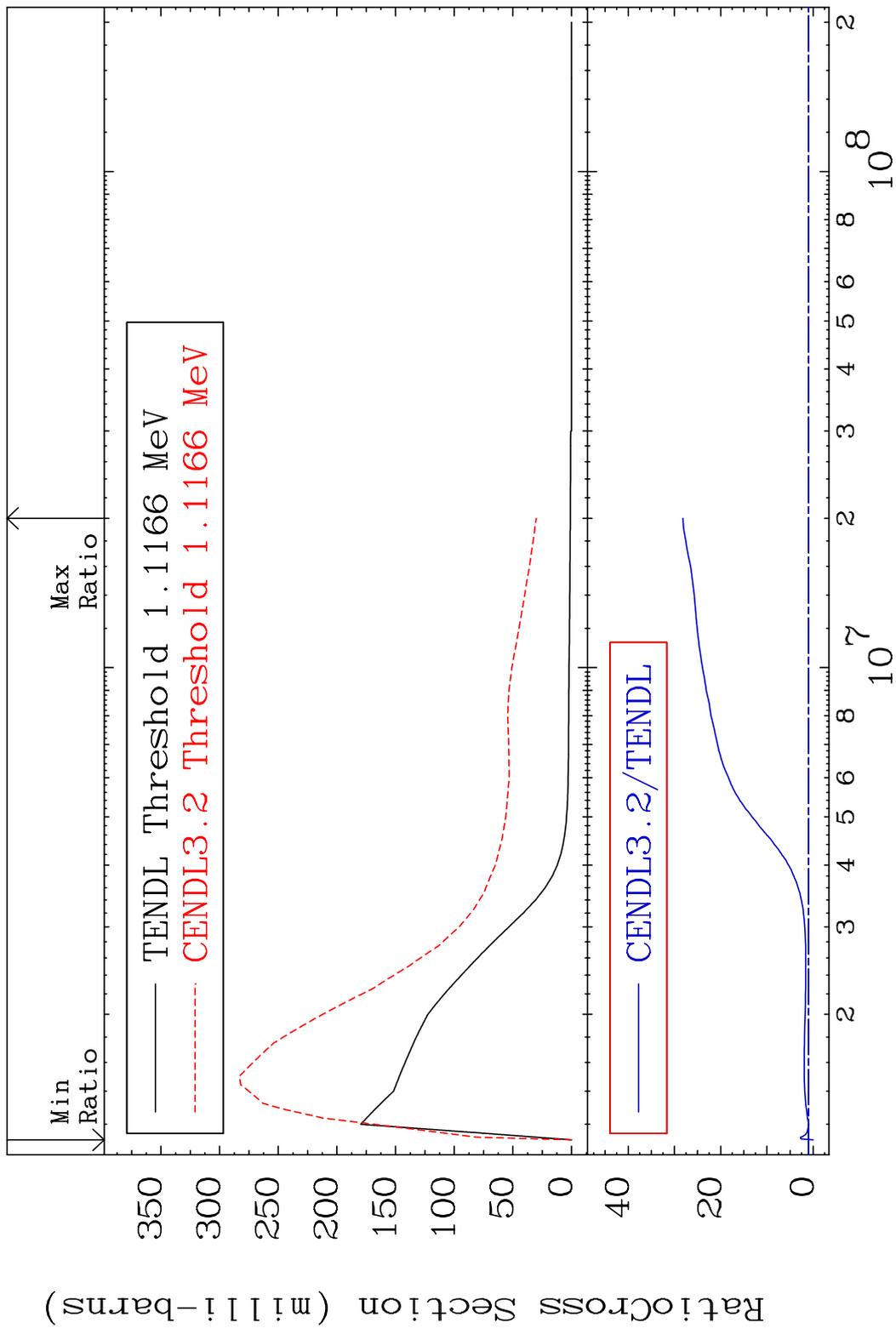
11 Incident Energy (eV) 64-Gd-152

MAT 6425 MT= 55 (n, n') Level 64-Gd-152  
 Cross Section -47.10 To 9999. %

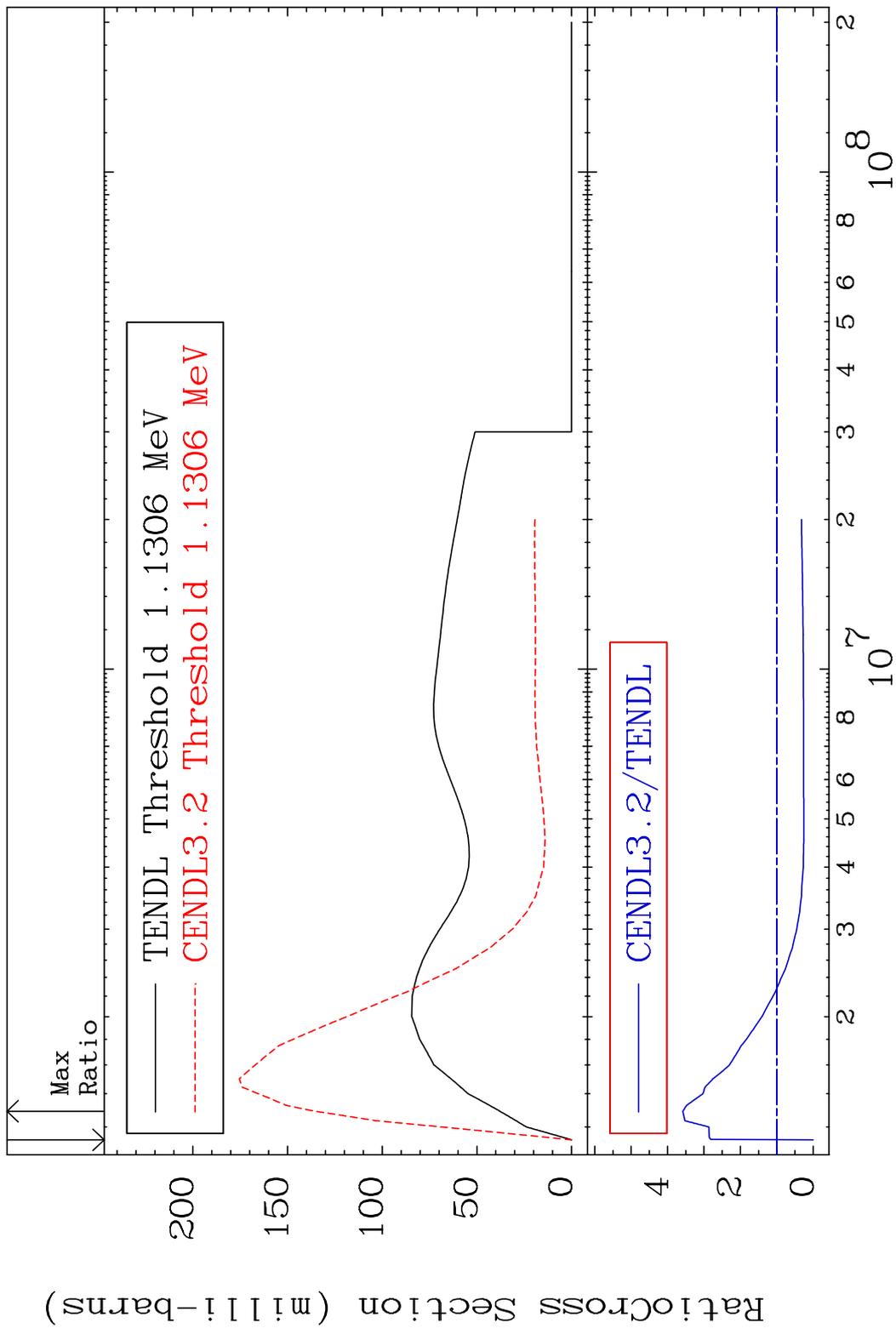


12 Incident Energy (eV) 64-Gd-152

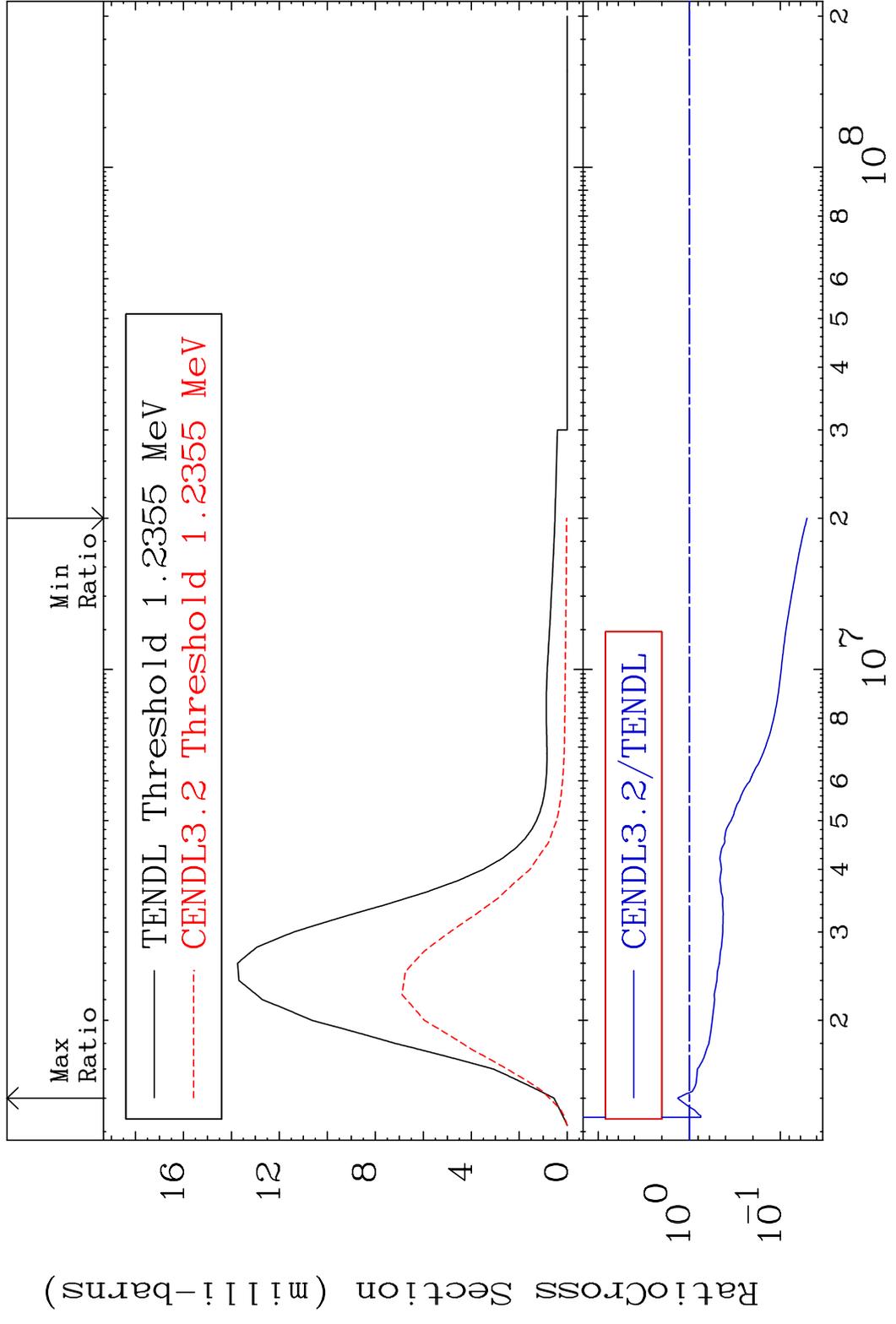
MAT 6425 MT= 56 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 2719. %



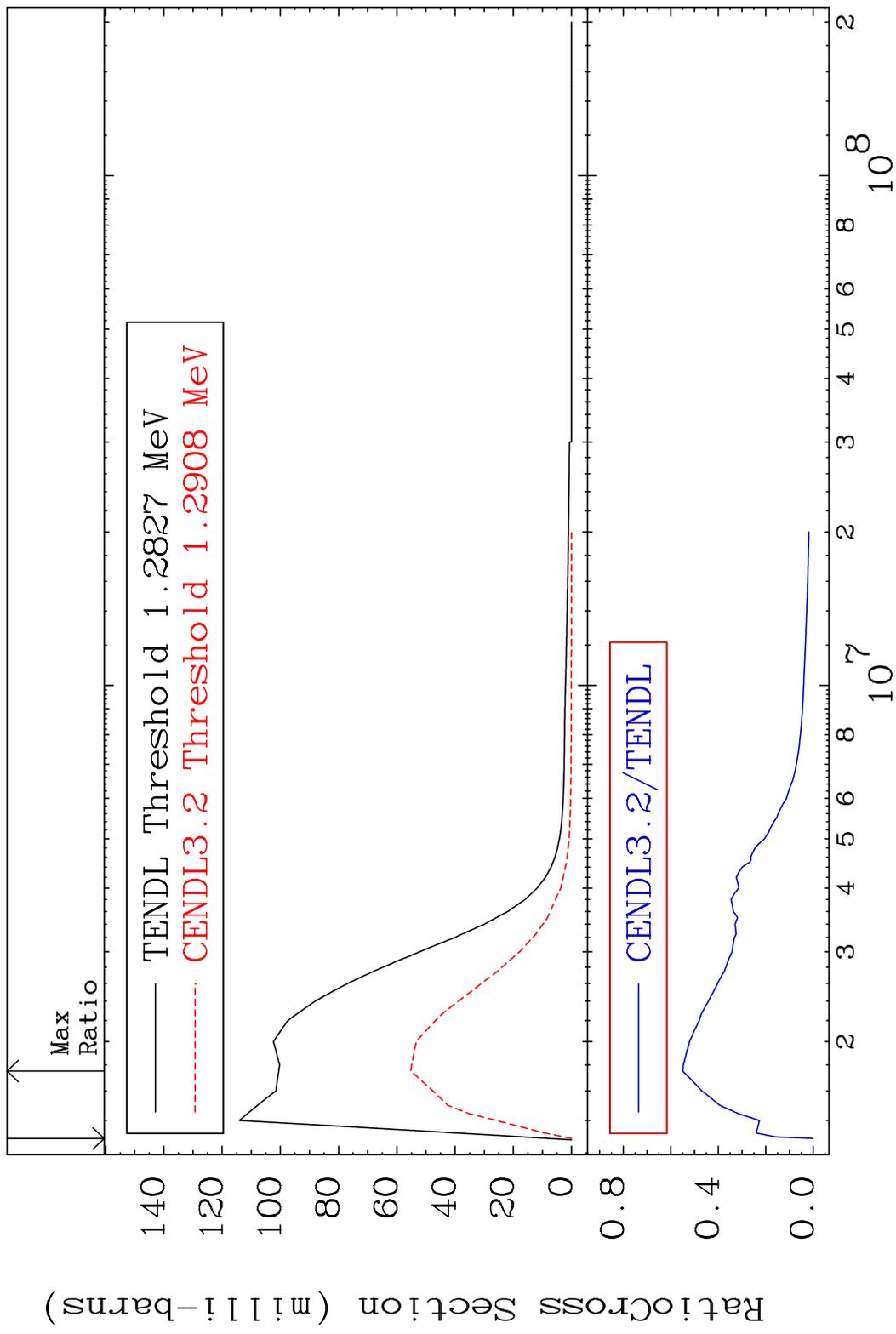
MAT 6425 MT= 57 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 258.0 %



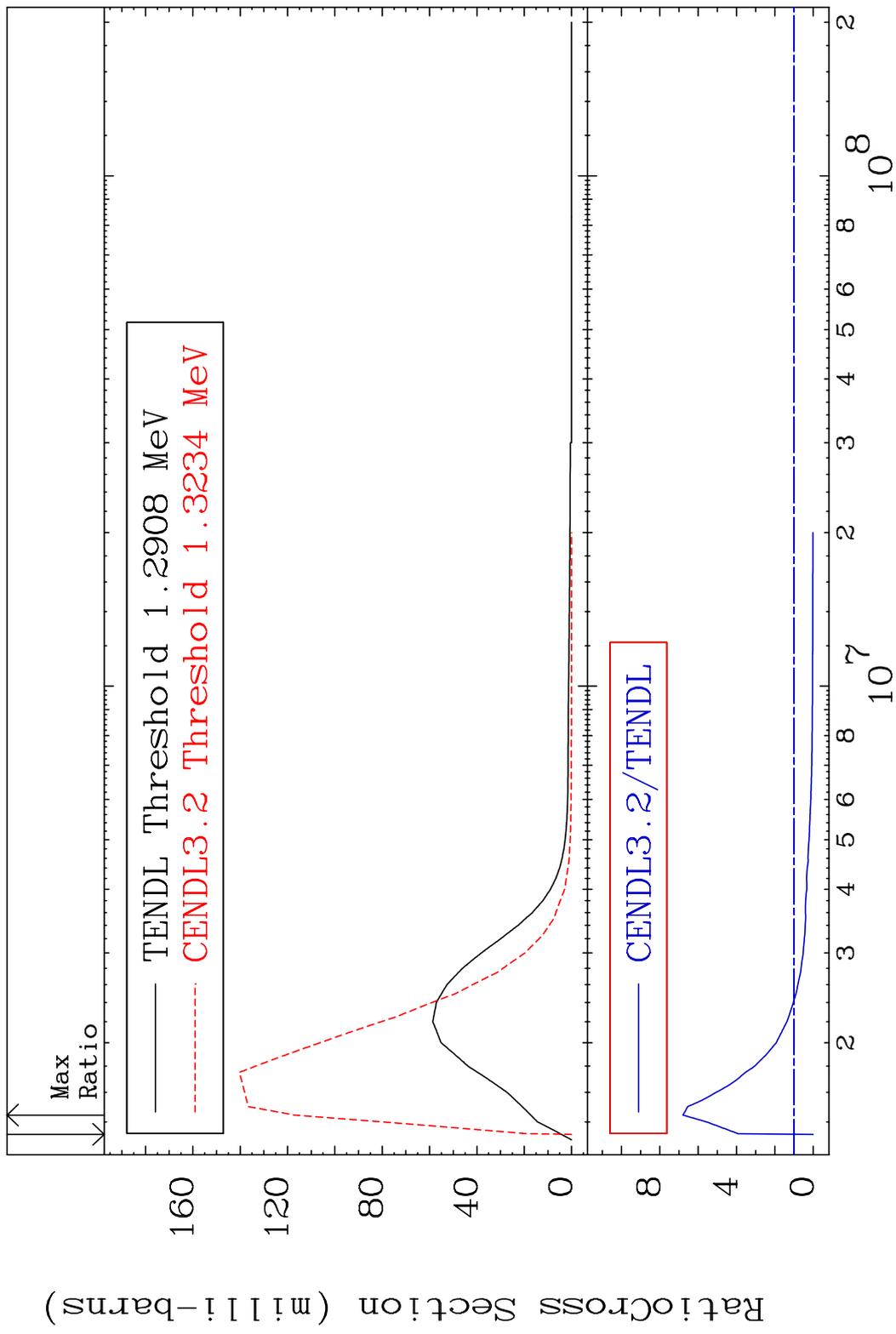
MAT 6425 MT= 58 (n, n') Level 64-Gd-152  
 Cross Section -94.90 To 33.98 %



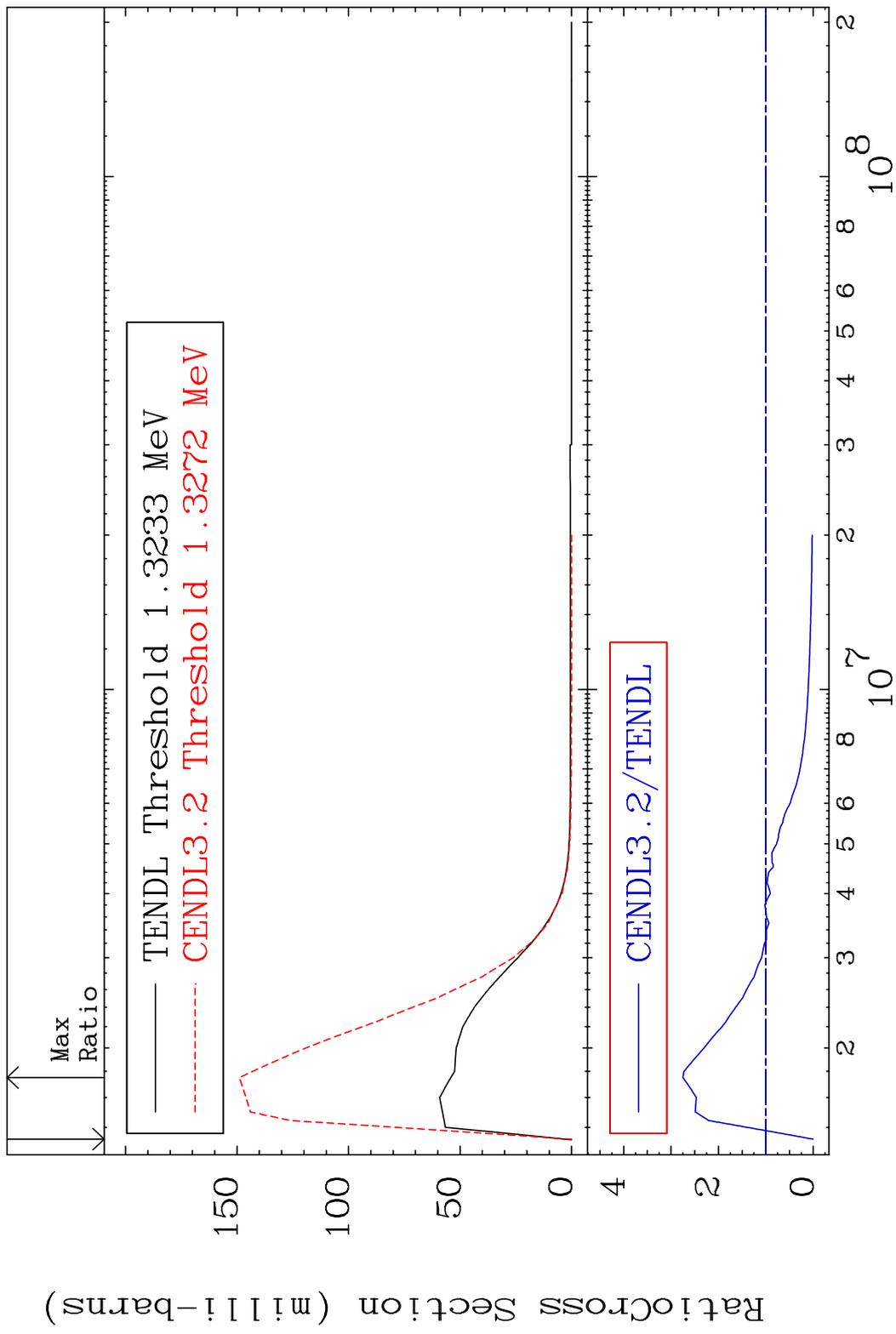
MAT 6425 MT= 59 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To -45.07%



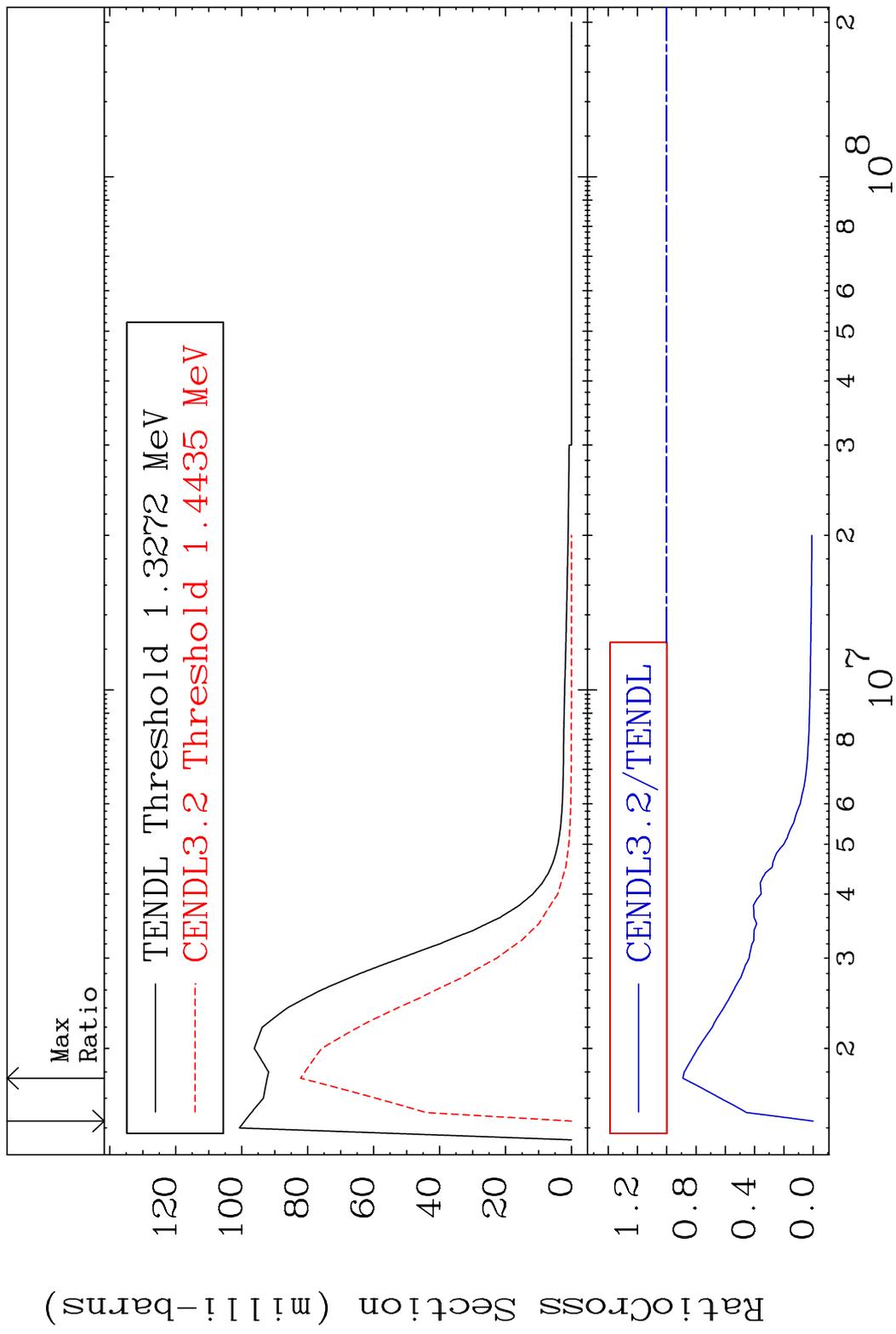
MAT 6425 MT= 60 (n,n') Level 64-Gd-152  
 Cross Section -100.0 To 579.9 %



MAT 6425 MT= 61 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To 175.1 %



MAT 6425 MT= 62 (n, n') Level 64-Gd-152  
 Cross Section -100.0 To -10.98%

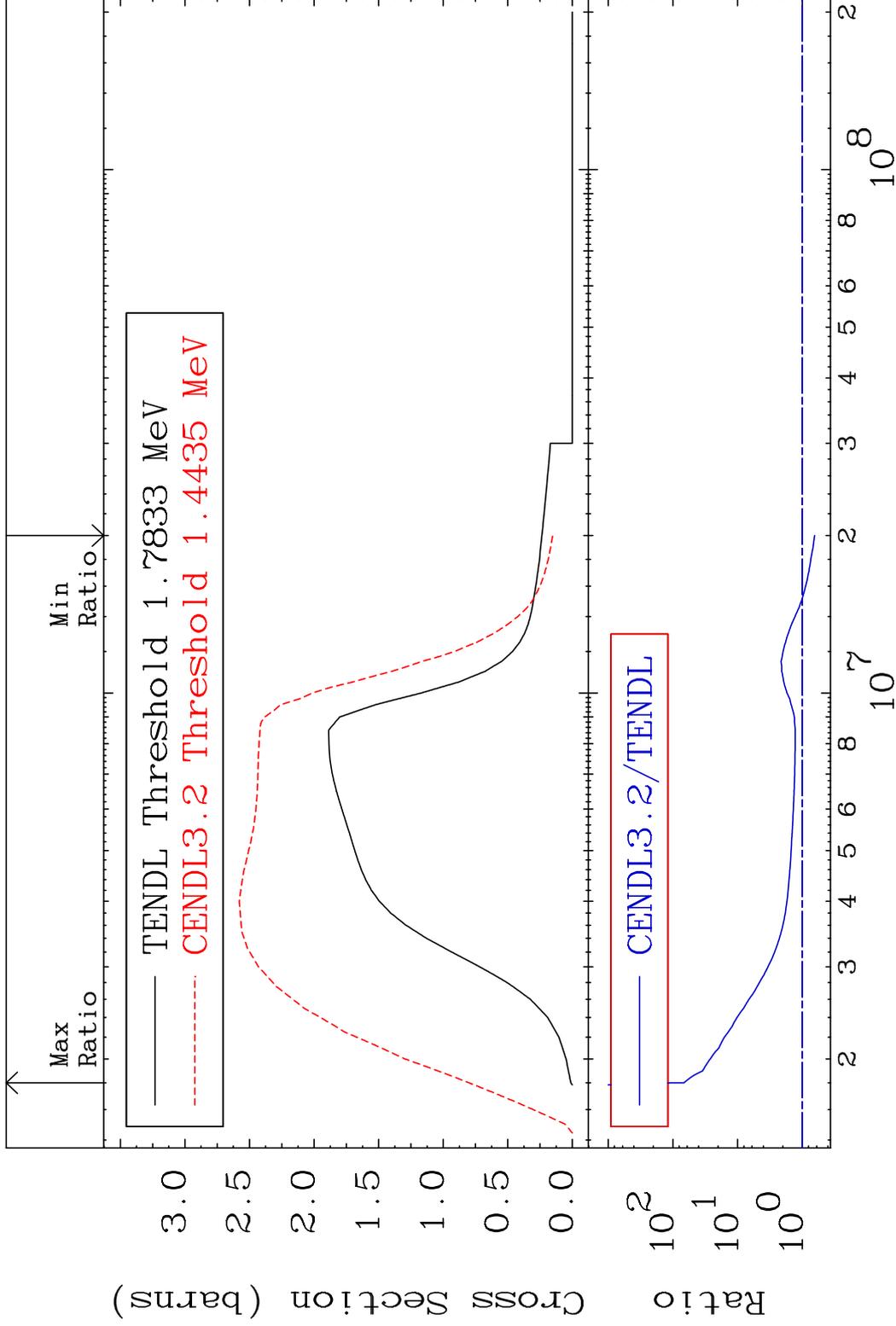


MAT 6425

(n, n') Continuum

64-Gd-152

Cross Section -35.53 To 6646. %



20

Incident Energy (eV)

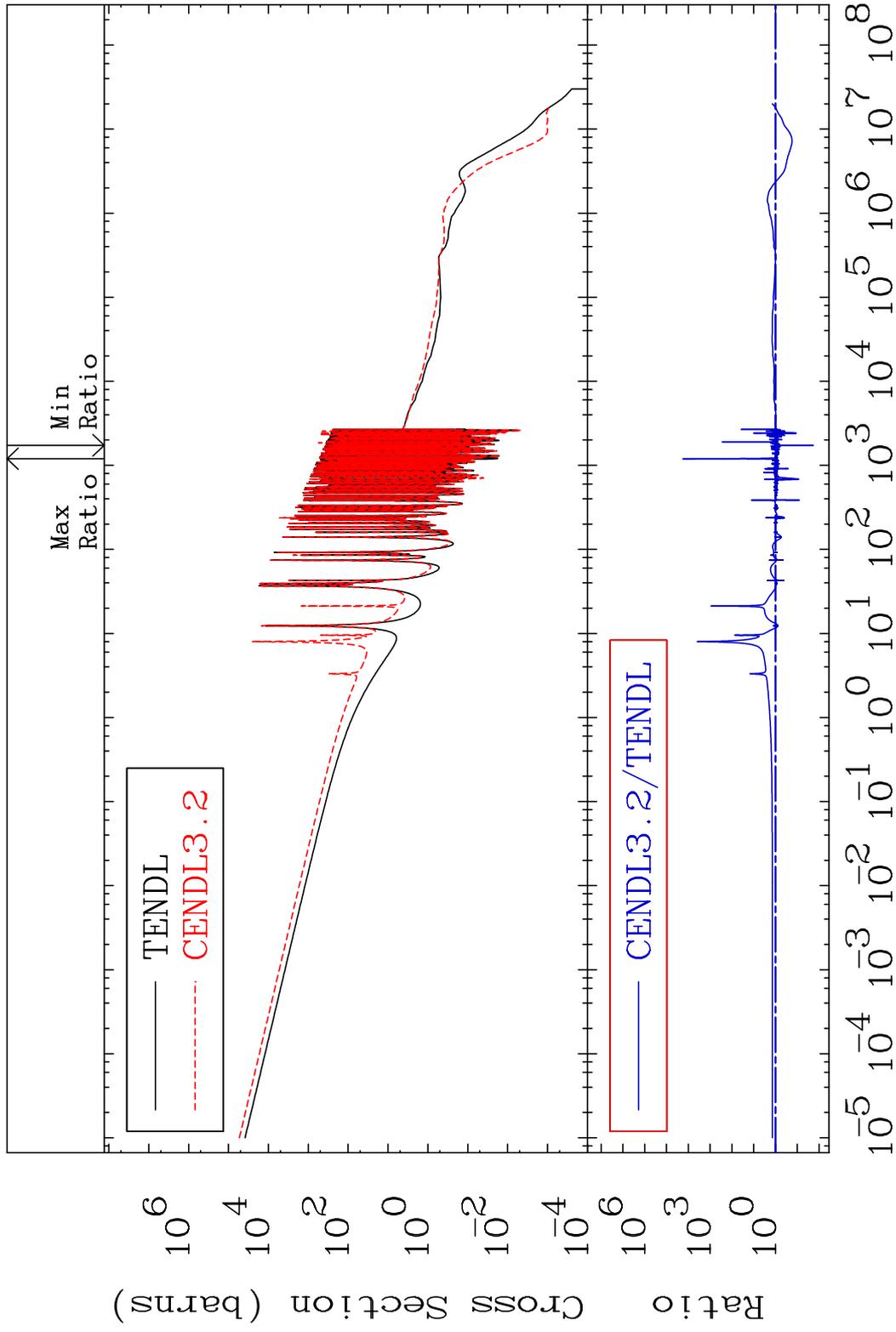
64-Gd-152

MAT 6425

(n,  $\gamma$ )

64-Gd-152

Cross Section -98.13 To 9999. %



21

Incident Energy (eV)

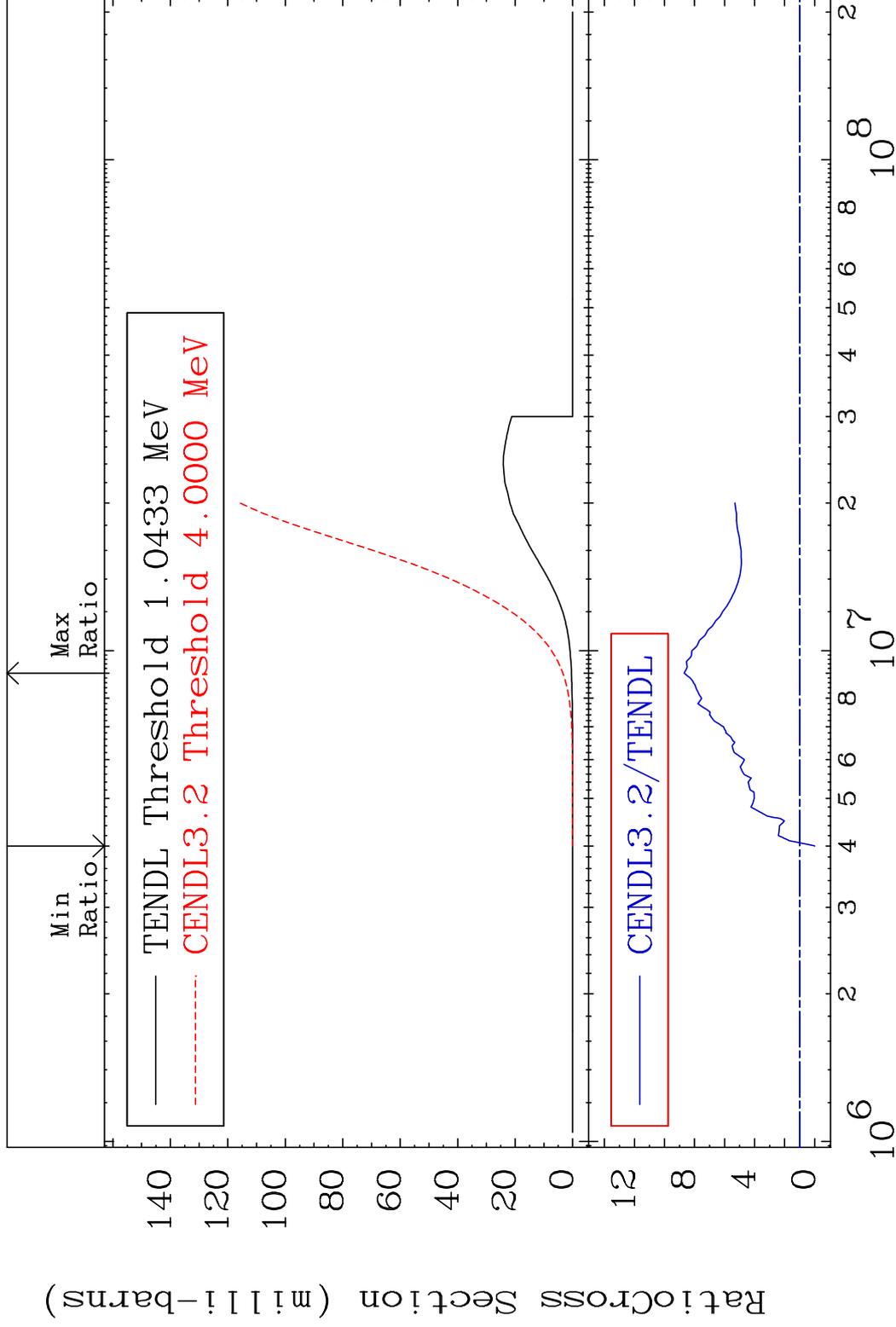
64-Gd-152

MAT 6425

(n,p)

64-Gd-152

Cross Section -100.0 To 769.5 %

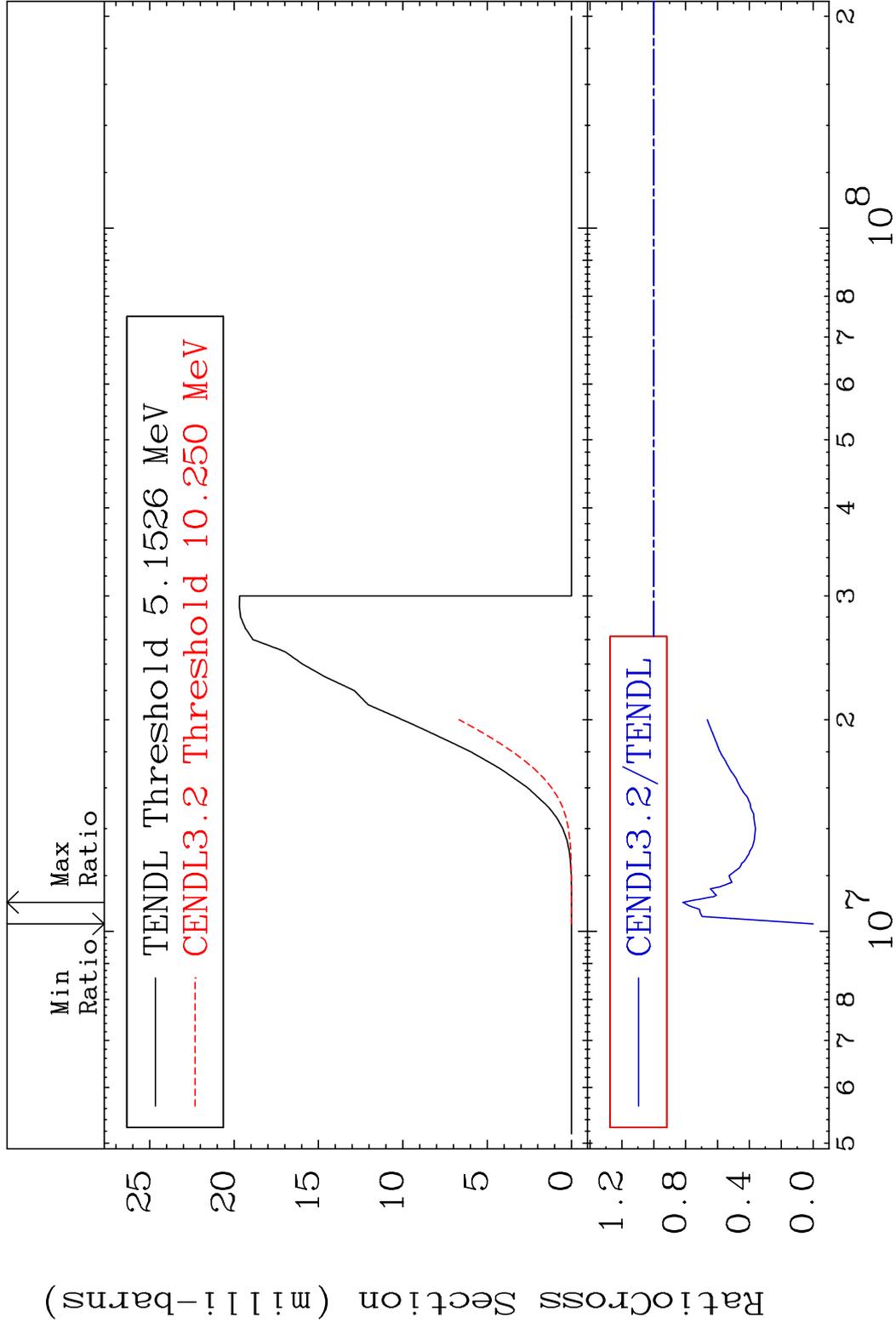


22

Incident Energy (eV)

64-Gd-152

MAT 6425 (n,d) 64-Gd-152  
 Cross Section -100.0 To -18.23%

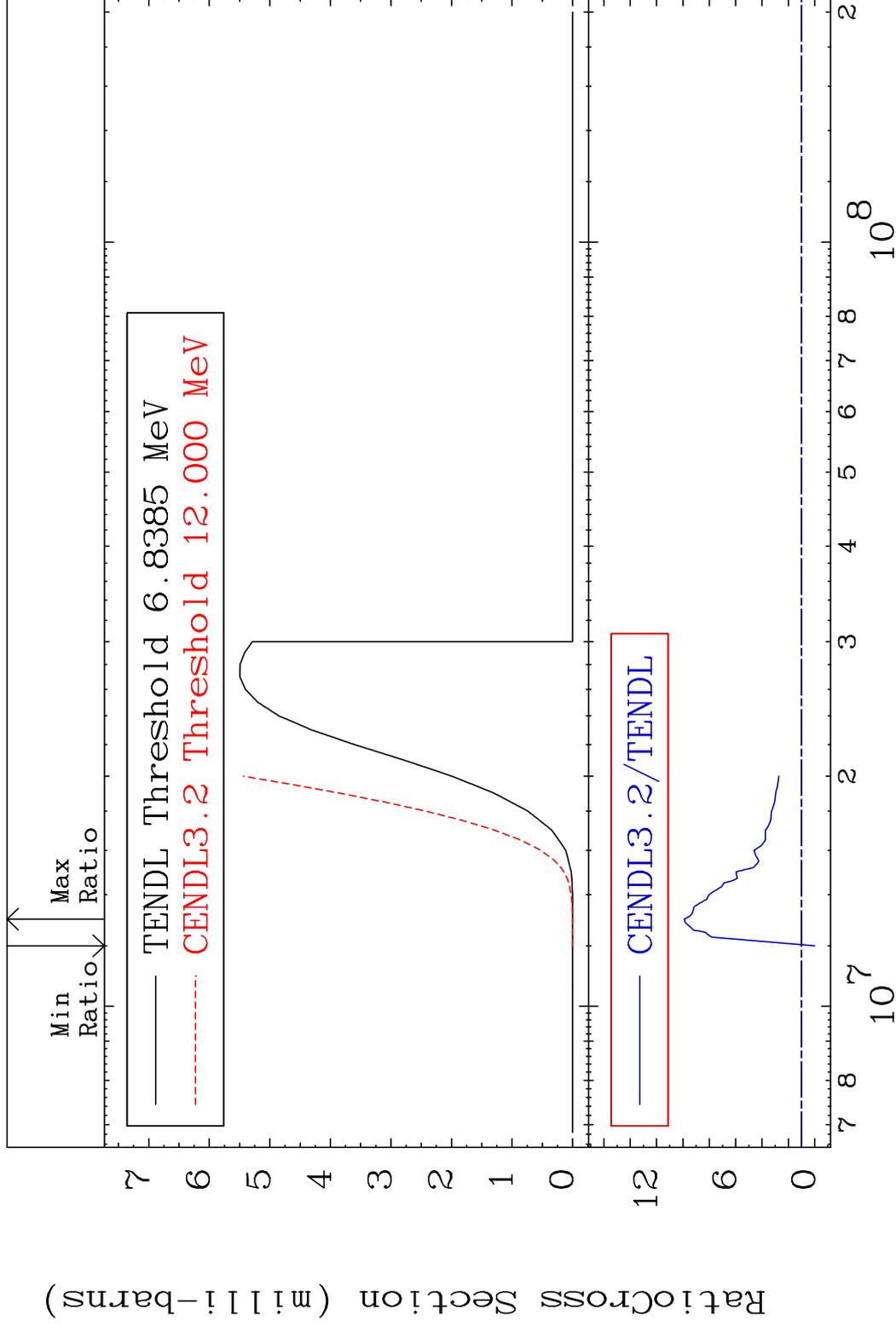


MAT 6425

(n, t)

64-Gd-152

Cross Section -100.0 To 891.0 %



24

Incident Energy (eV)

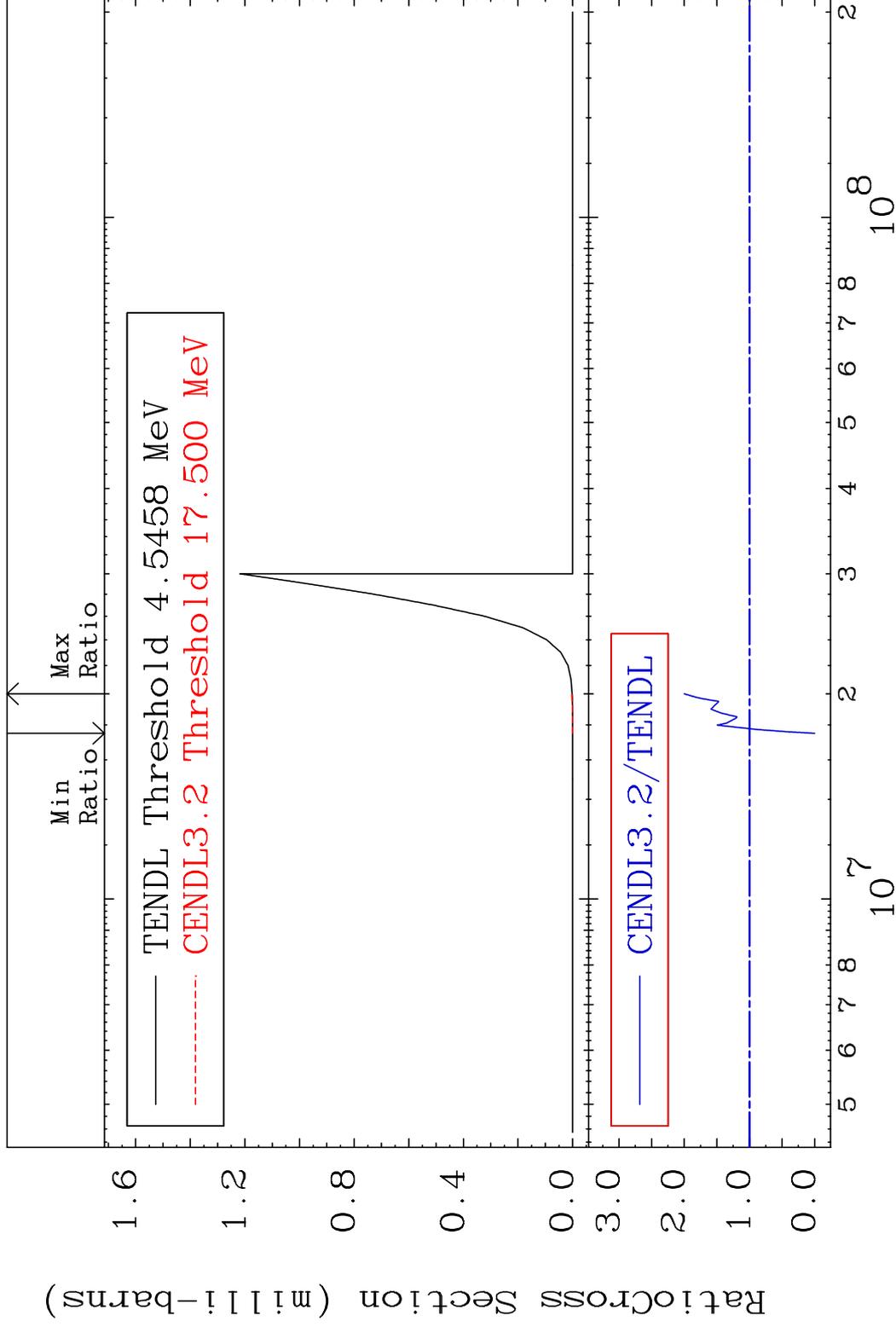
64-Gd-152

MAT 6425

(n, He-3)

64-Gd-152

Cross Section -100.0 To 100.2 %



25

Incident Energy (eV)

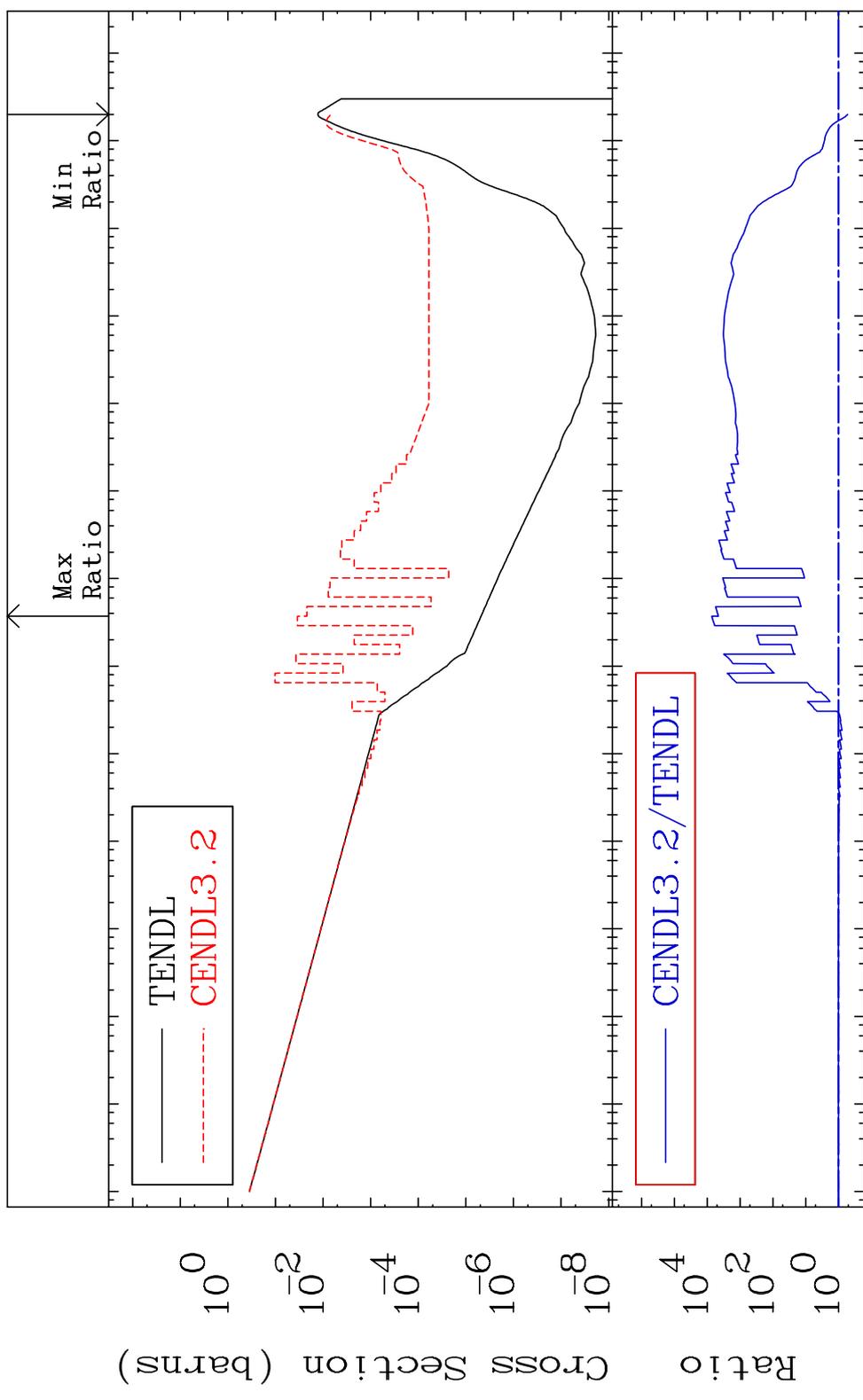
64-Gd-152

MAT 6425

64-Gd-152

(n,  $\alpha$ )

Cross Section -47.10 To 9999. %

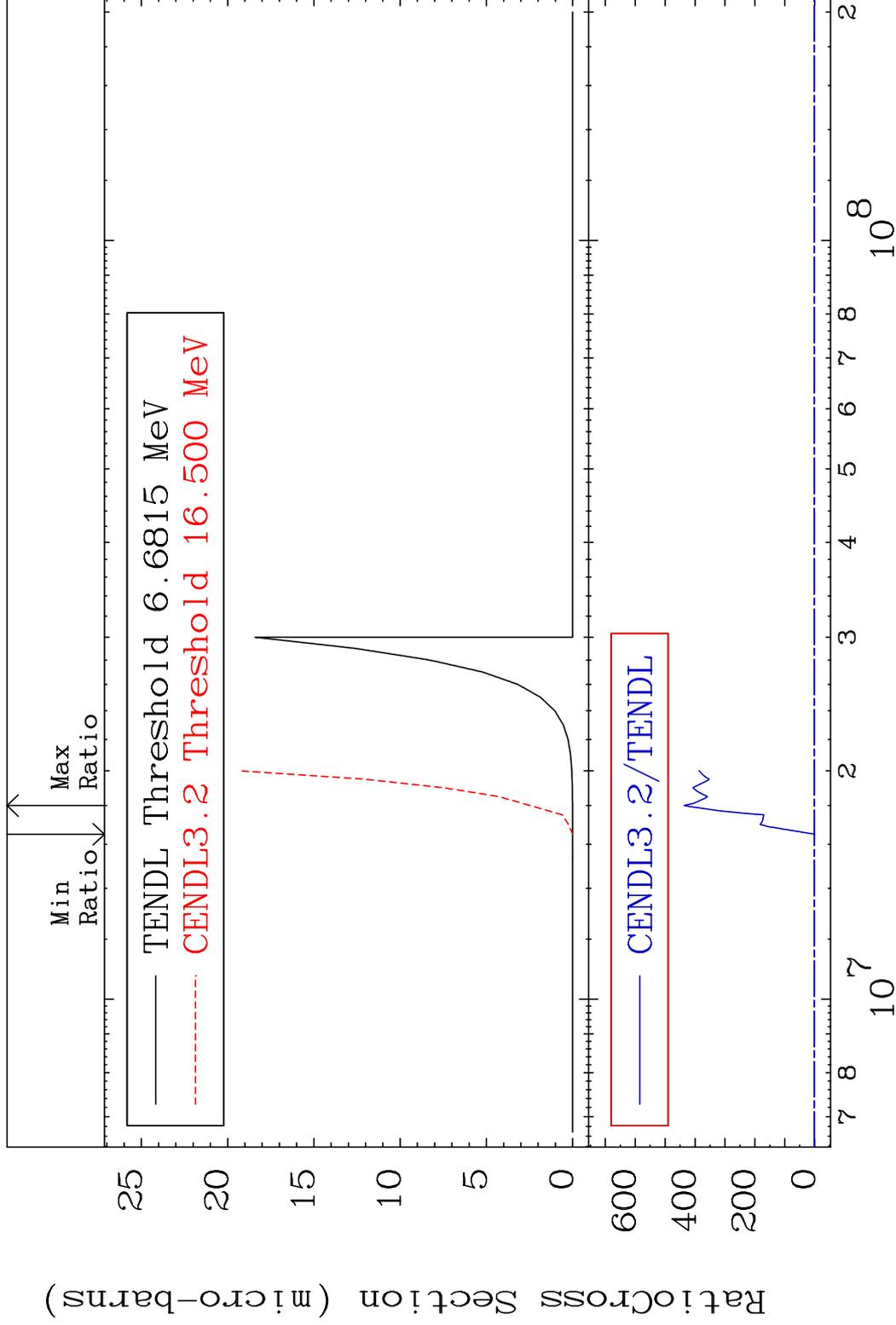


MAT 6425

(n,2p)

64-Gd-152

Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

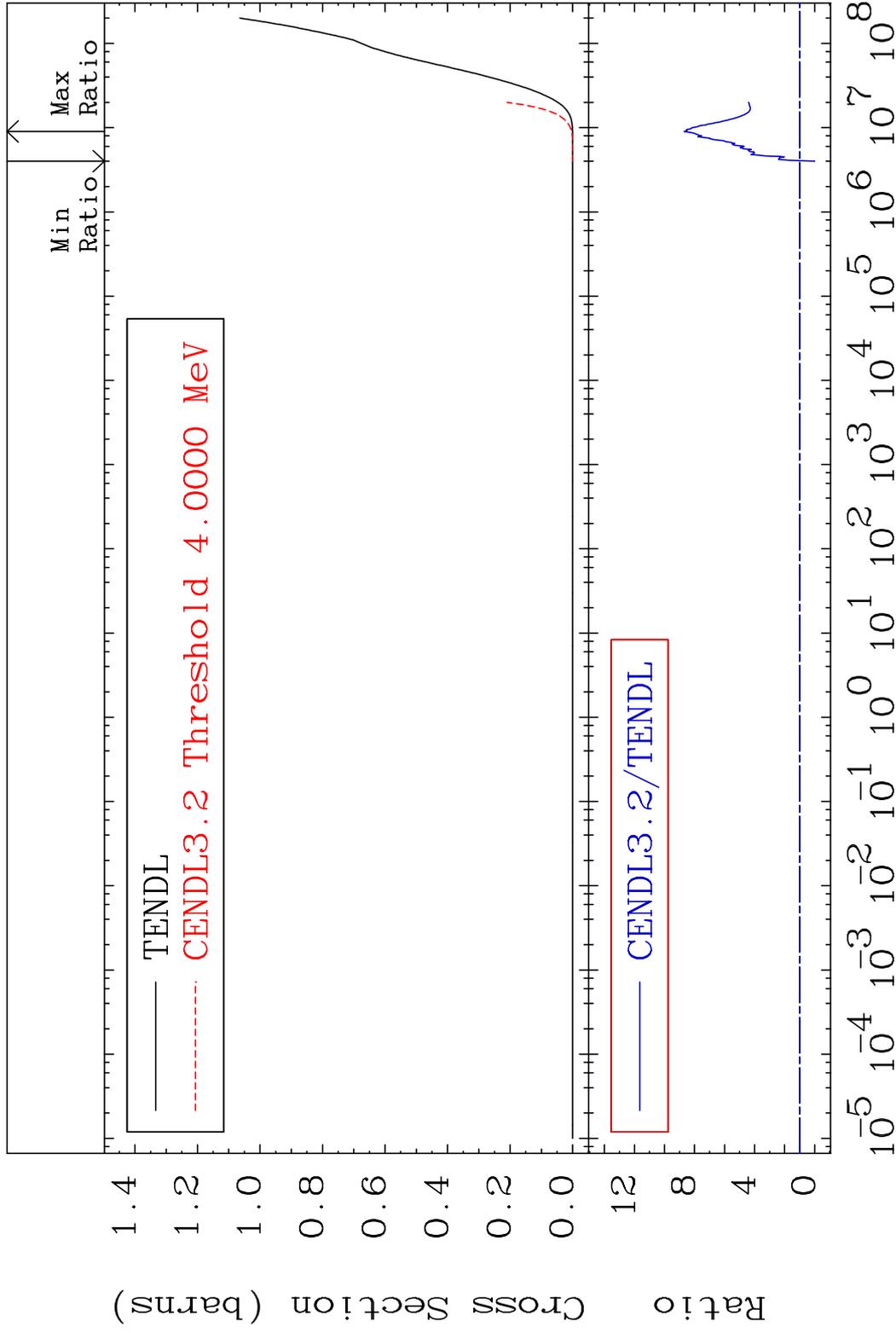
64-Gd-152

MAT 6425

Hydrogen Production

64-Gd-152

Cross Section -100.0 To 769.5 %



28

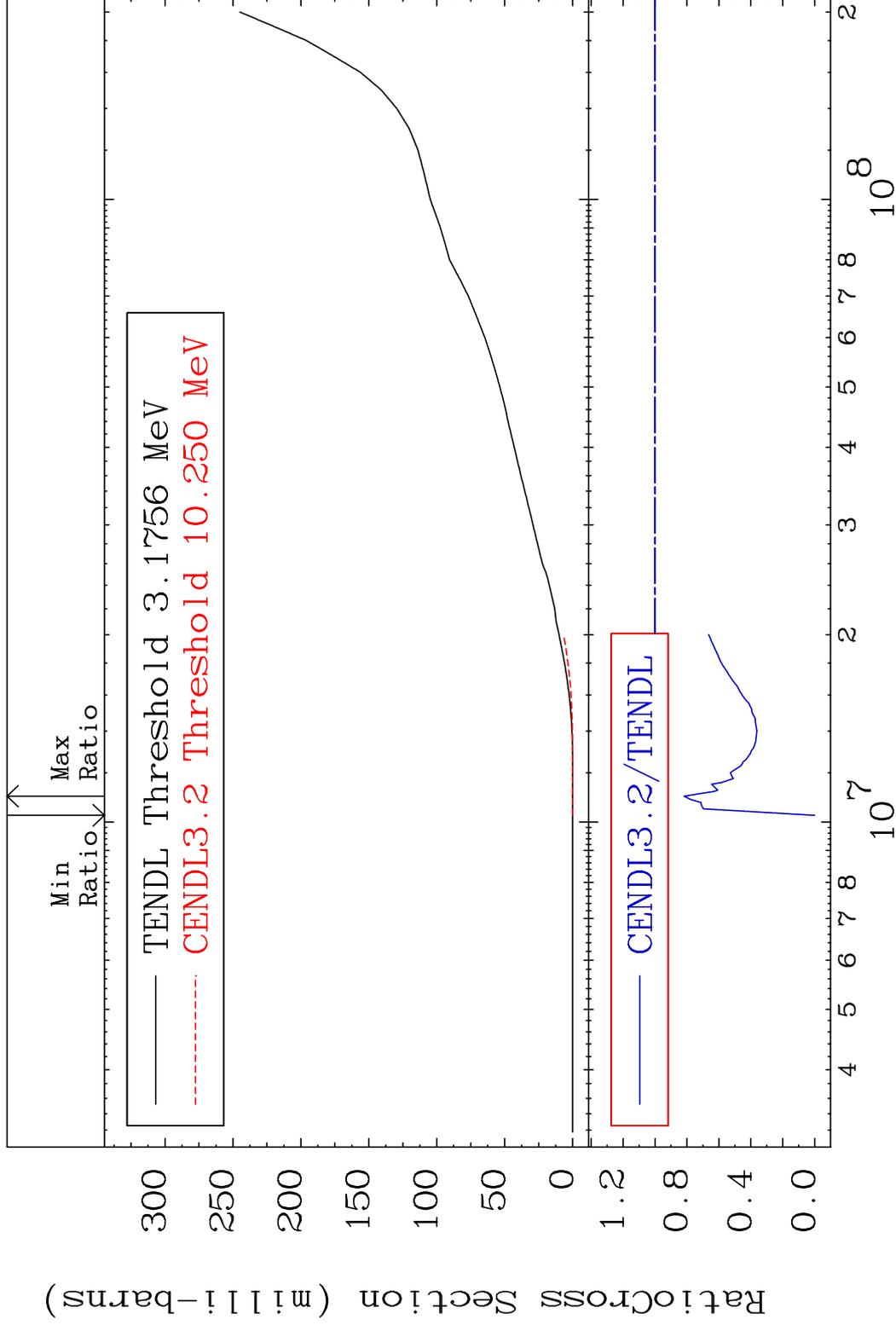
Incident Energy (eV)

64-Gd-152

MAT 6425

Deuterium Production 64-Gd-152

Cross Section -100.0 To -18.23%

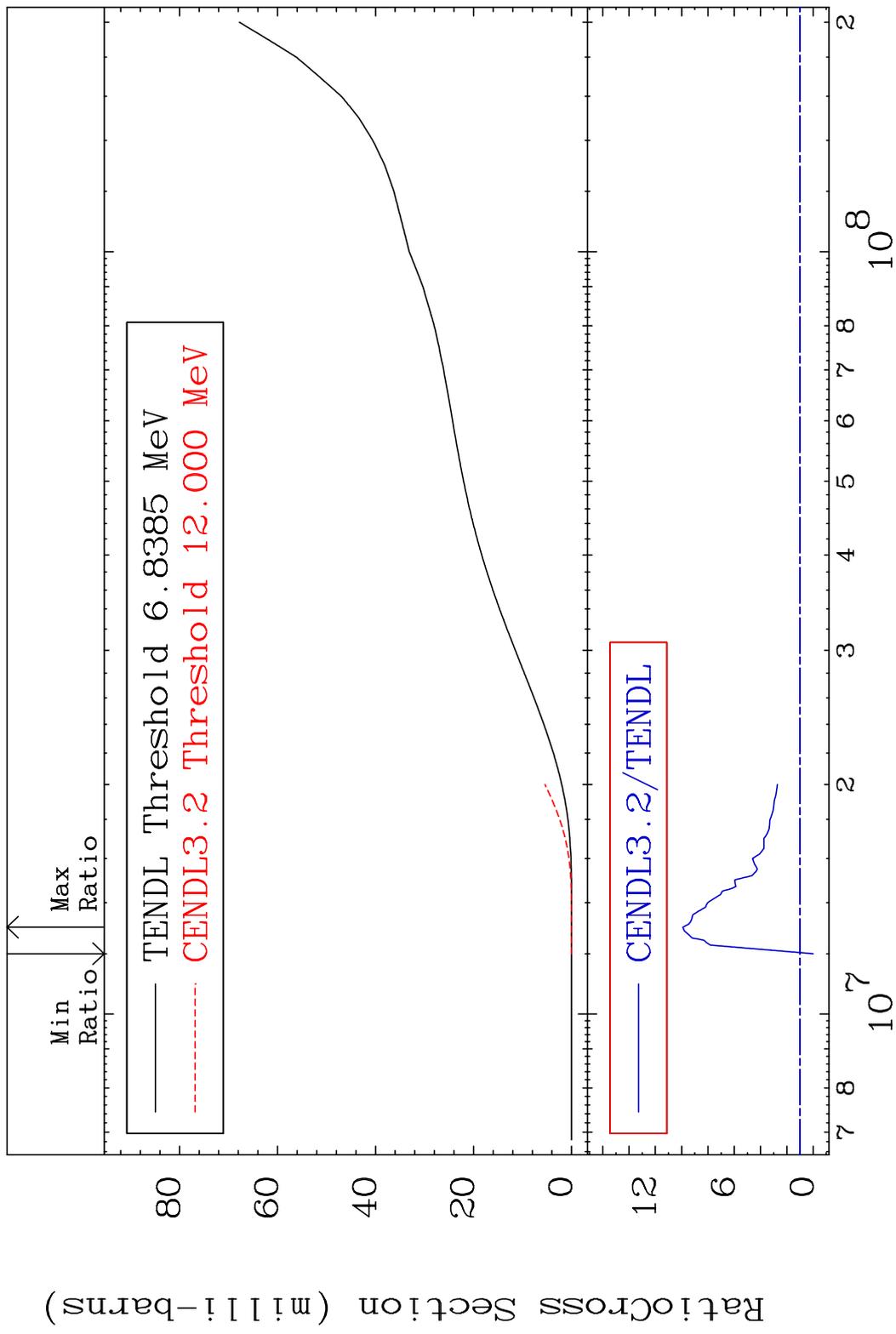


29

Incident Energy (eV)

64-Gd-152

MAT 6425 Tritium Production 64-Gd-152  
 Cross Section -100.0 To 891.0 %



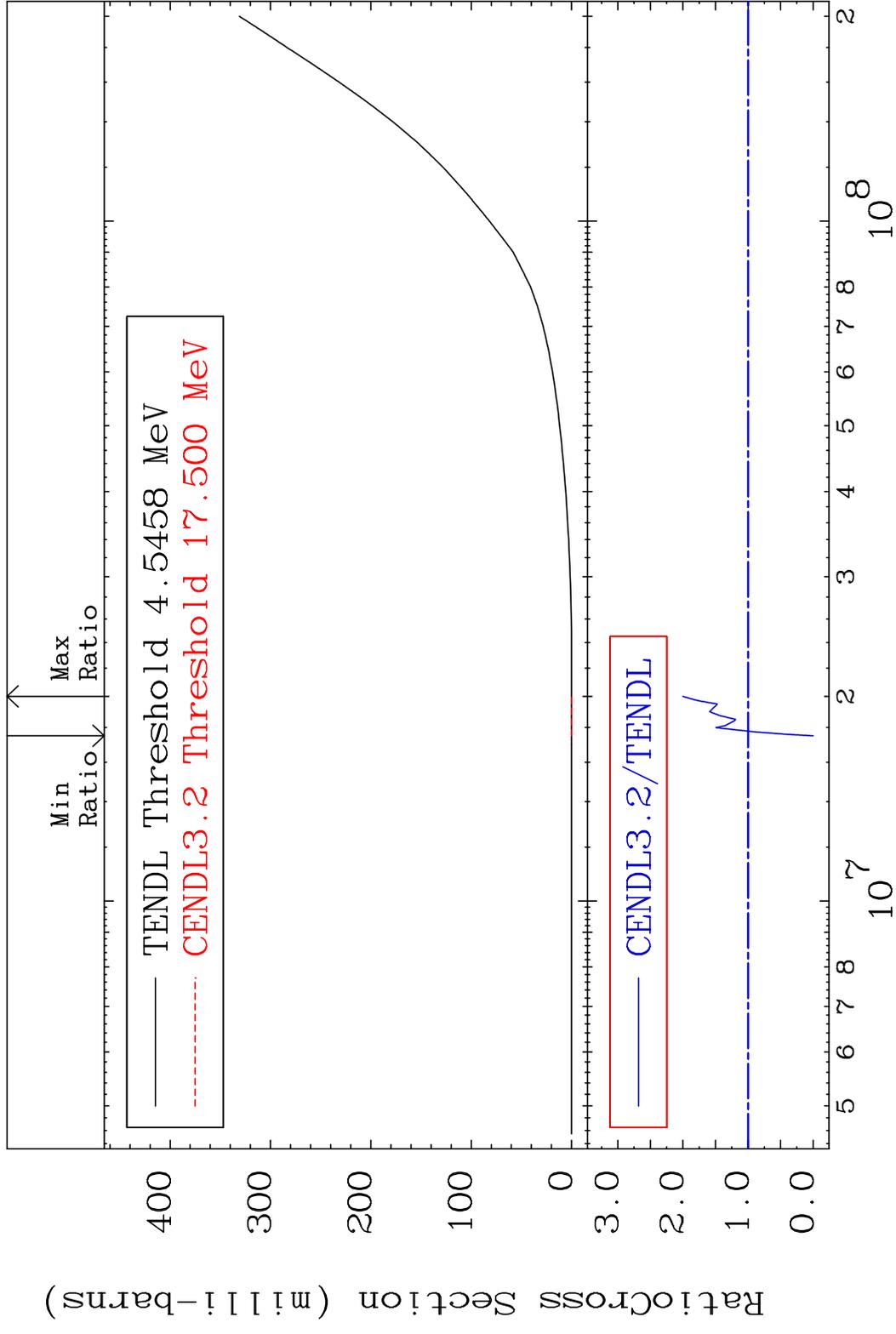
30 Incident Energy (eV) 64-Gd-152

MAT 6425

He-3 Production

64-Gd-152

Cross Section -100.0 To 100.2 %

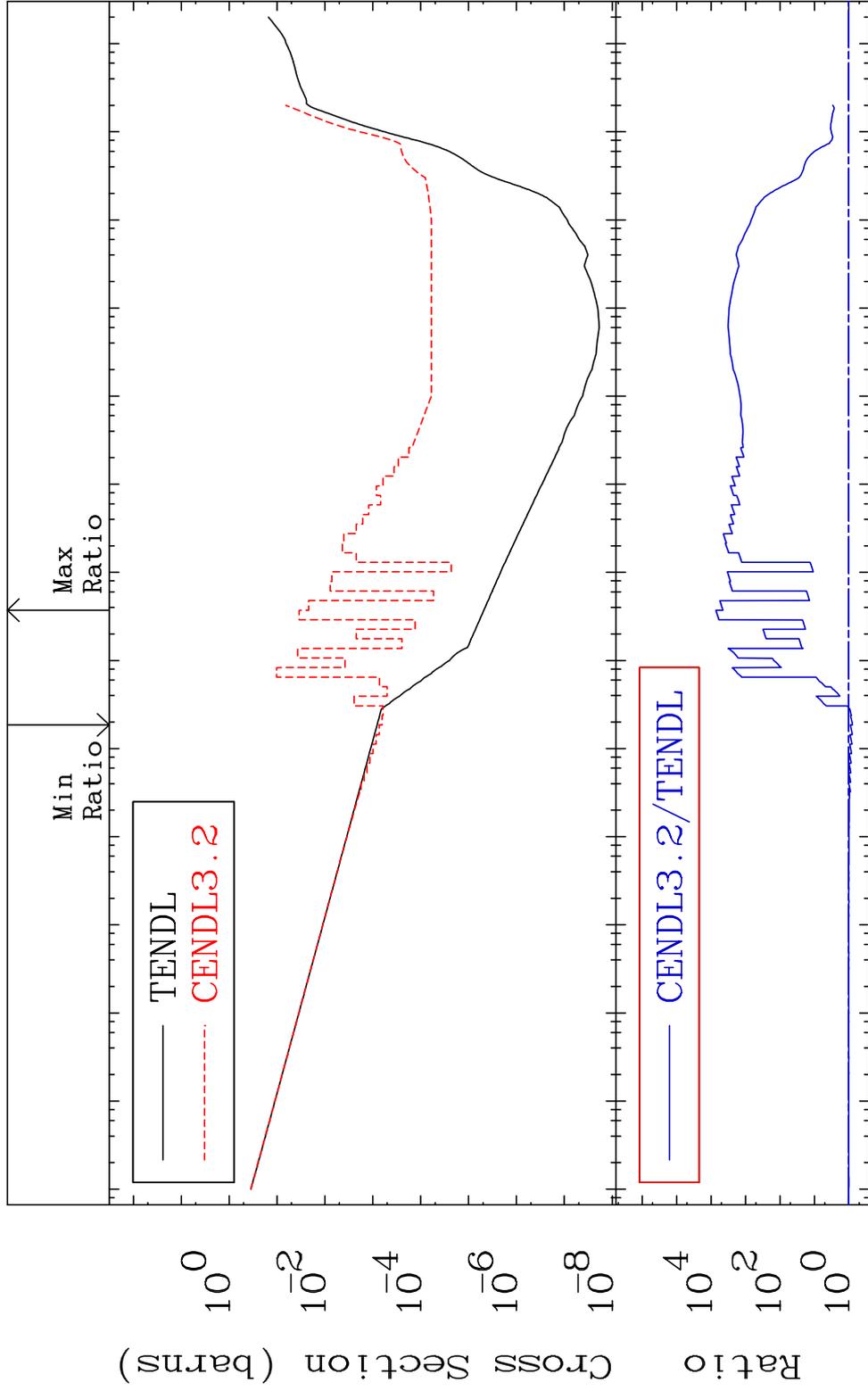


MAT 6425

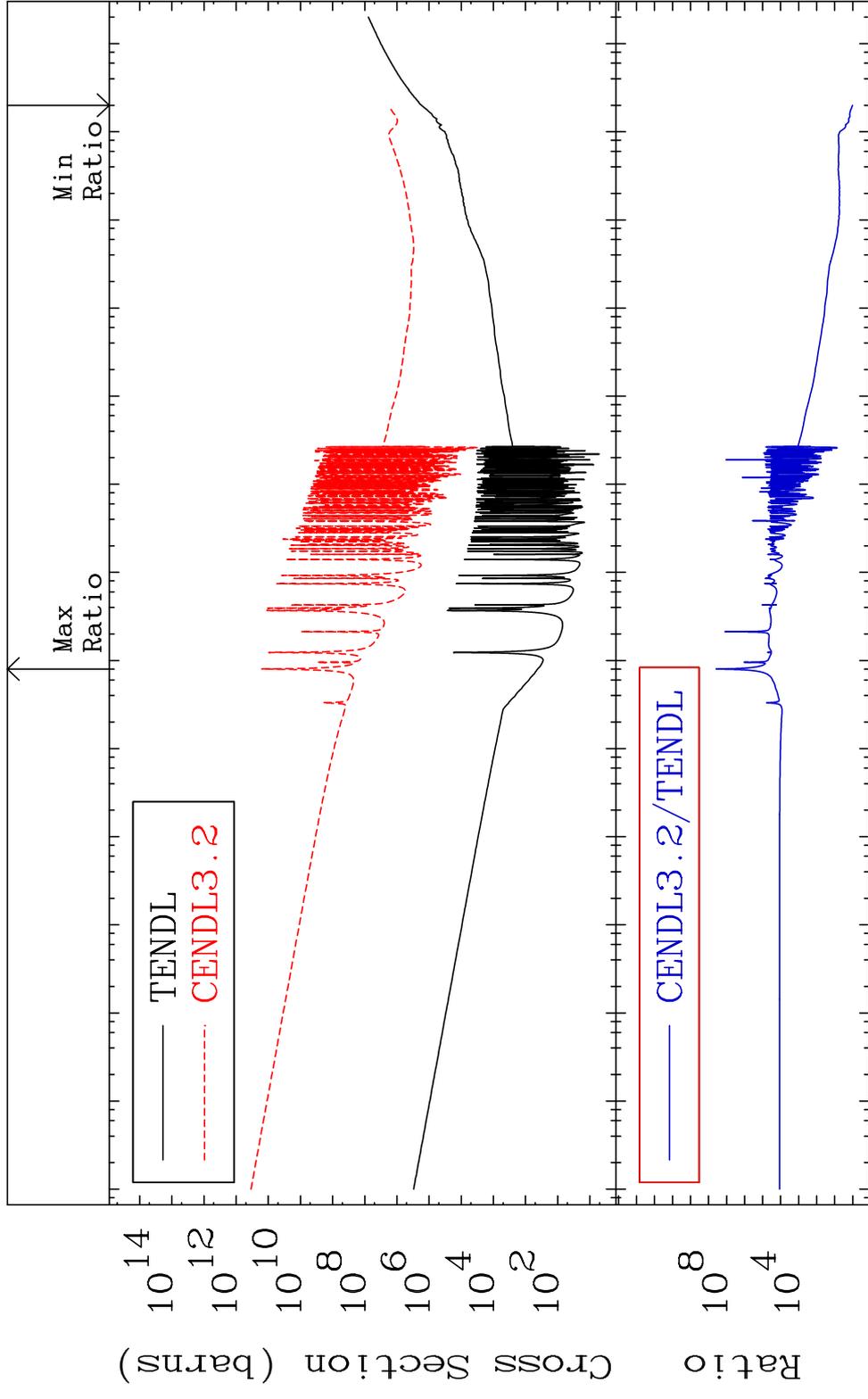
He-4 Production

64-Gd-152

Cross Section -21.75 To 9999. %

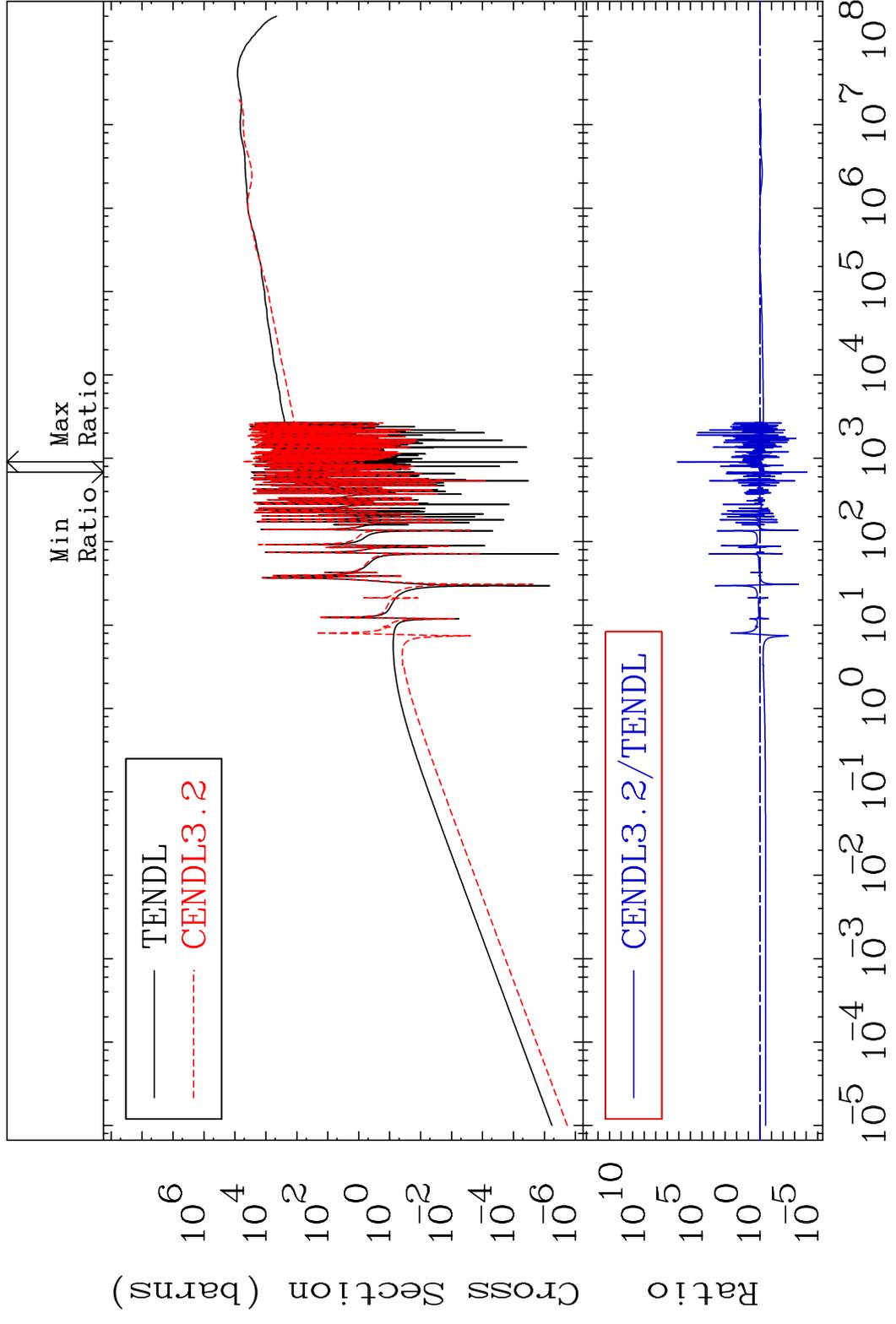


MAT 6425 Kerma total (eV-barns) 64-Gd-152  
 Cross Section 925.9 To 9999. %

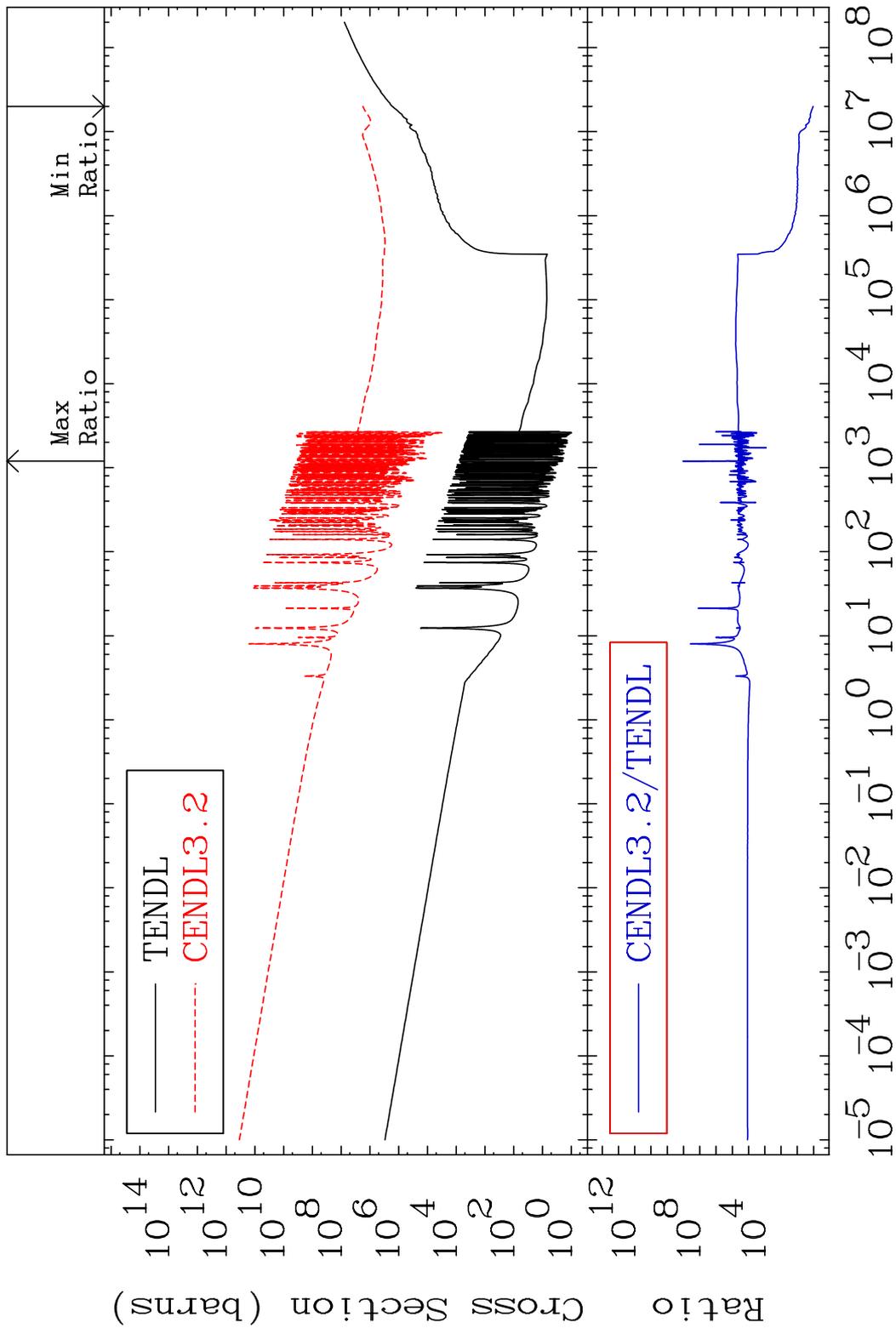


MAT 6425

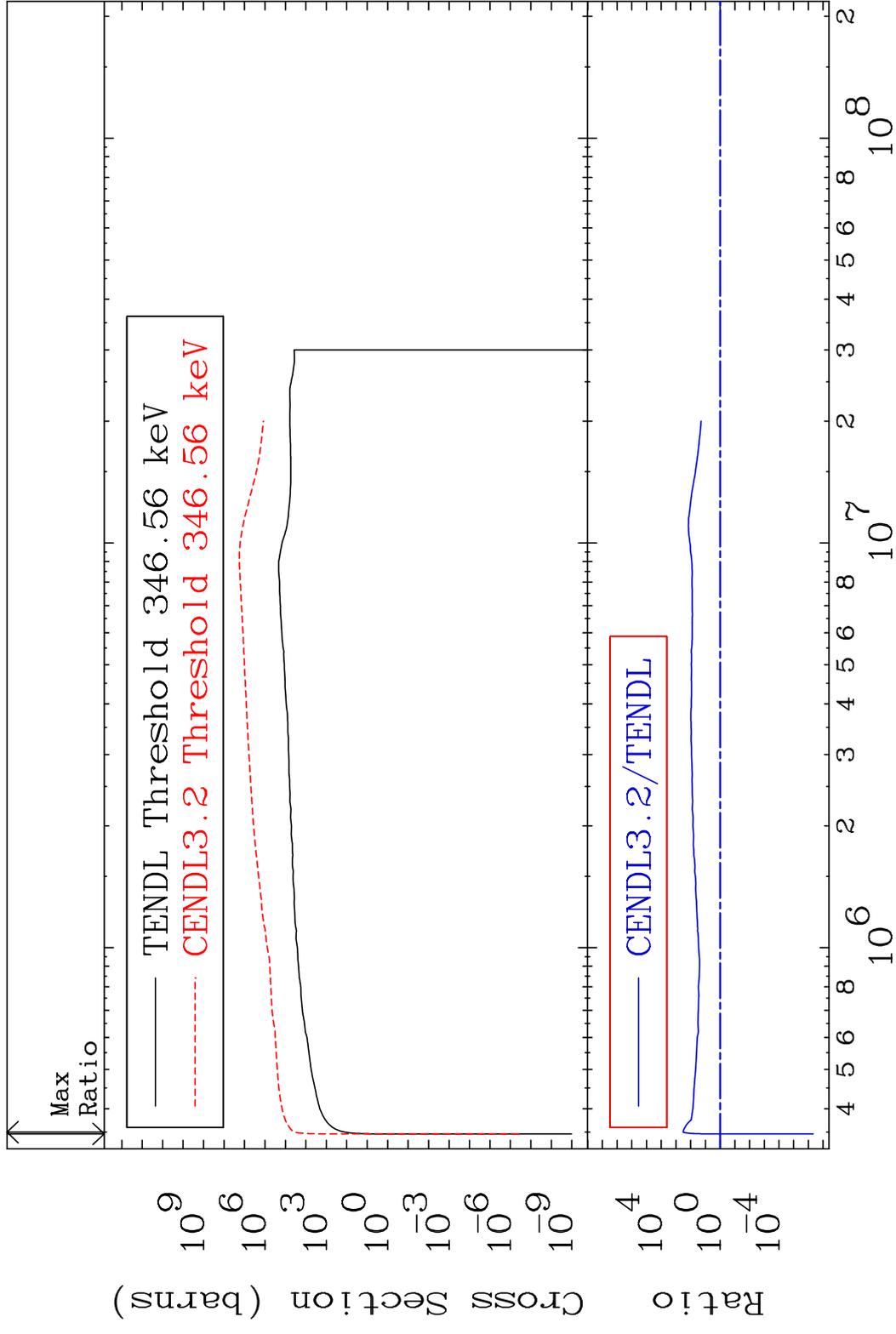
Kerma elastic  
Cross Section -99.99 To 9999. %  
64-Gd-152



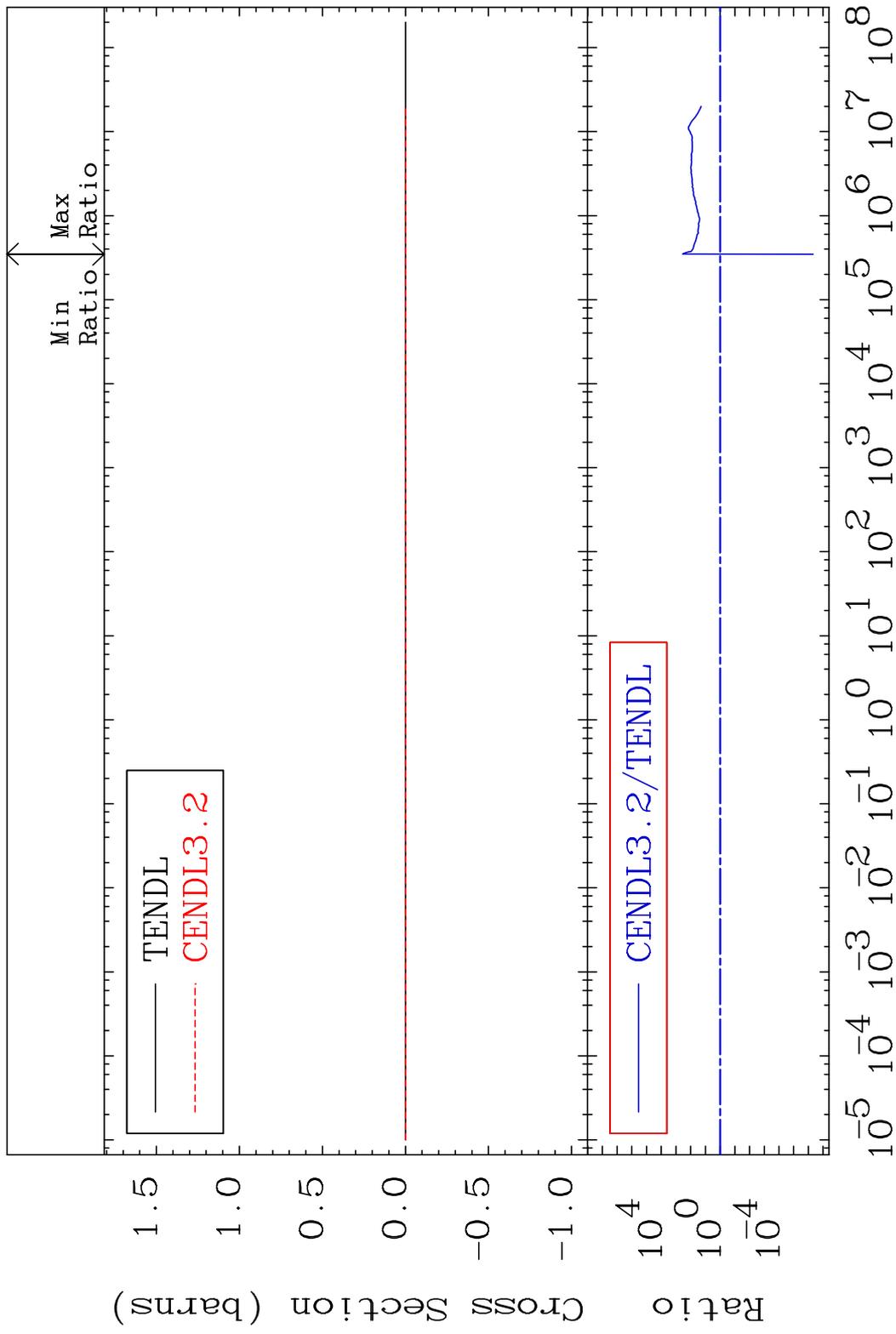
MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152  
 Cross Section 960.4 To 9999. %



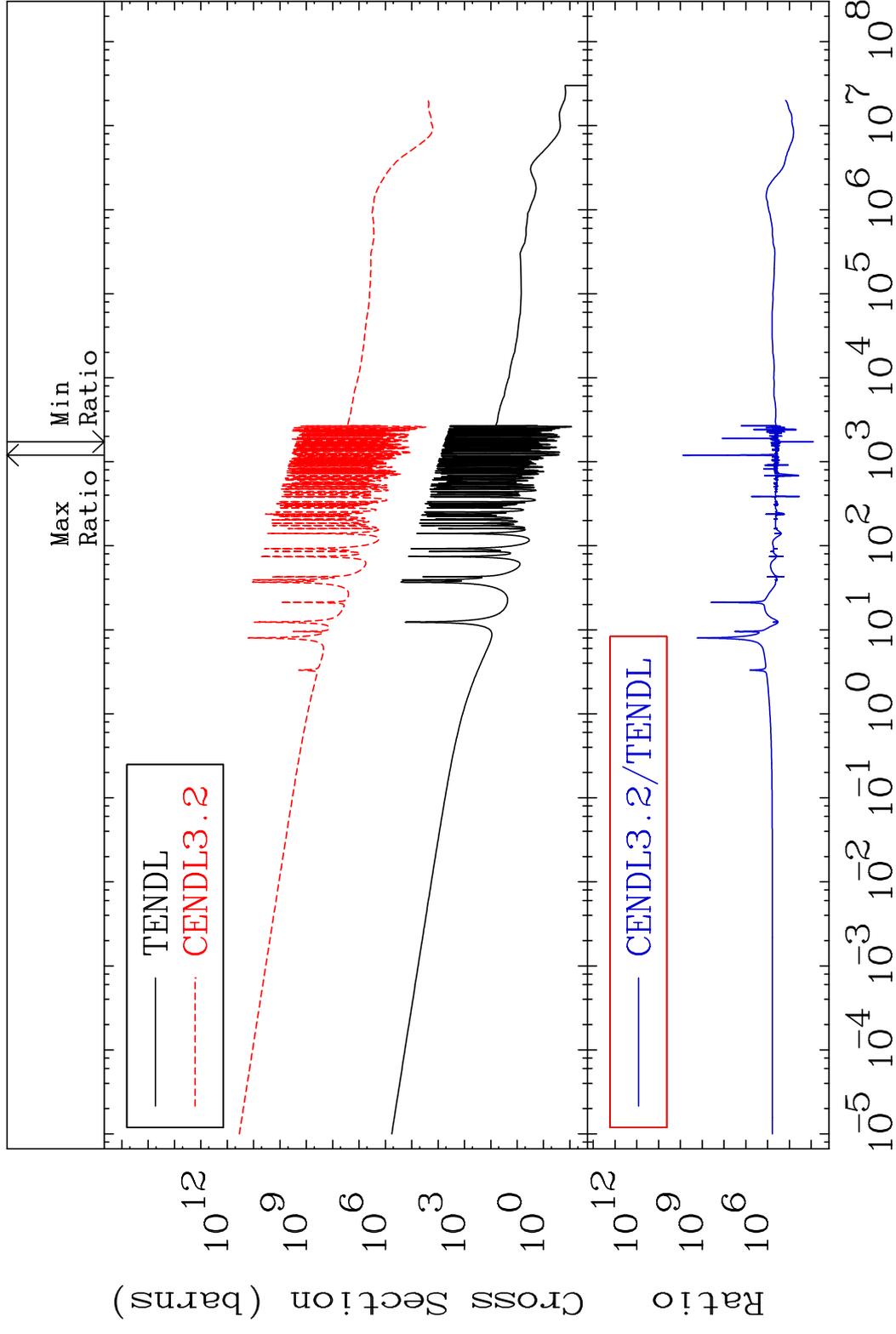
MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152  
 Cross Section -100.0 To 9999. %



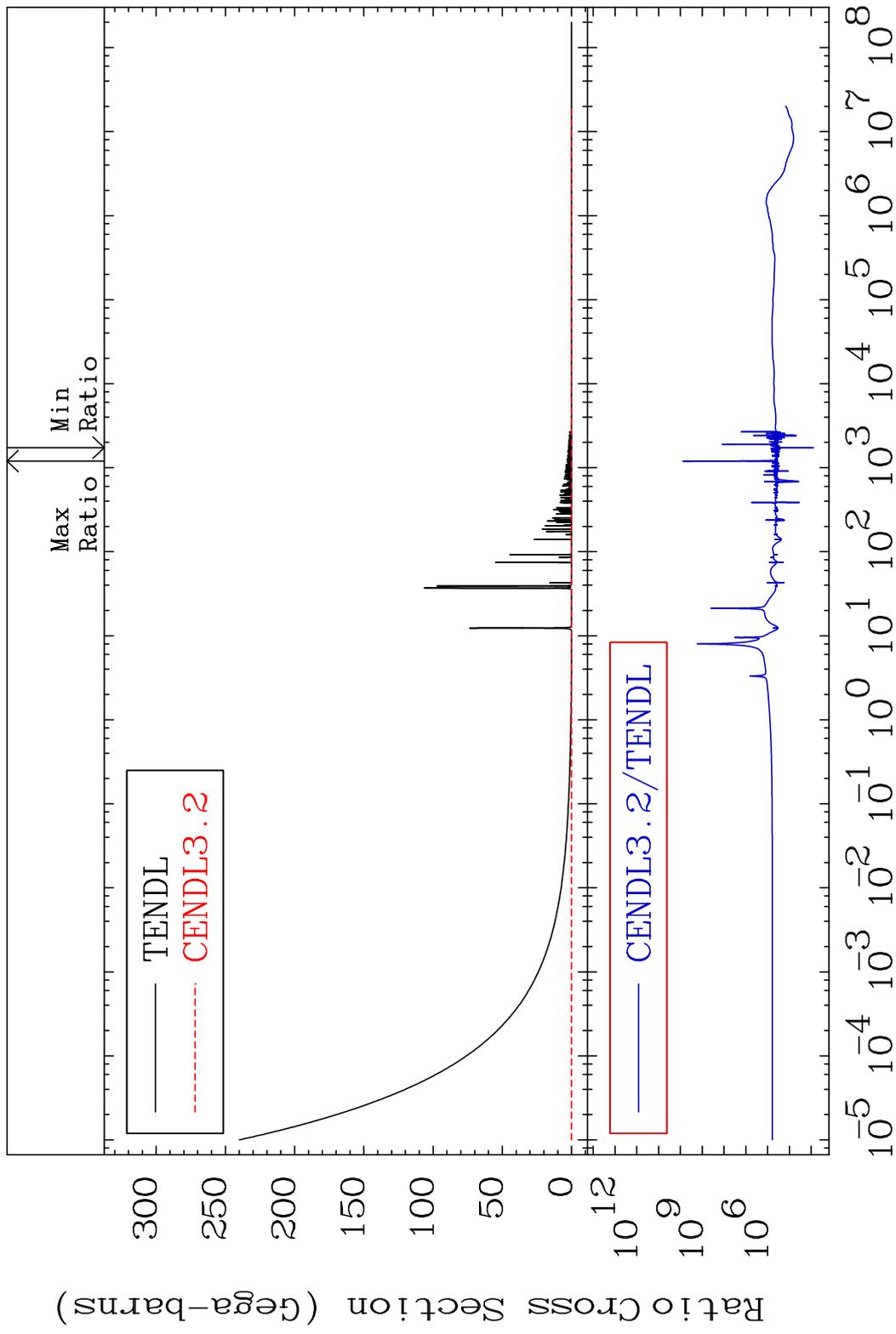
MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152  
 Cross Section -100.0 To 9999. %



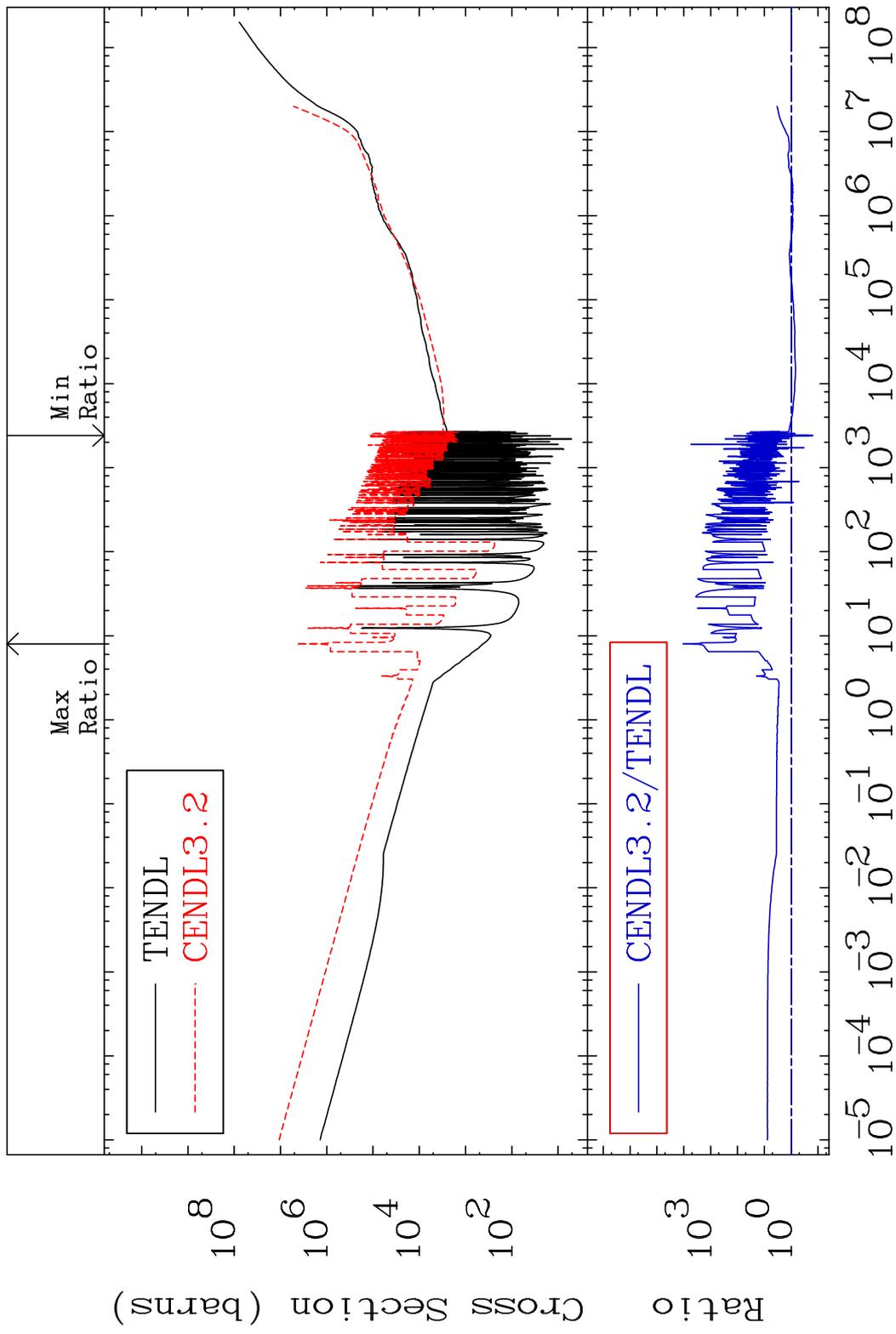
MAT 6425 Kerma capture (mt102) 64-Gd-152  
 Cross Section 9999. To 9999. %



MAT 6425 Total photon (eV-barns) 64-Gd-152  
Cross Section 9999. To 9999. %

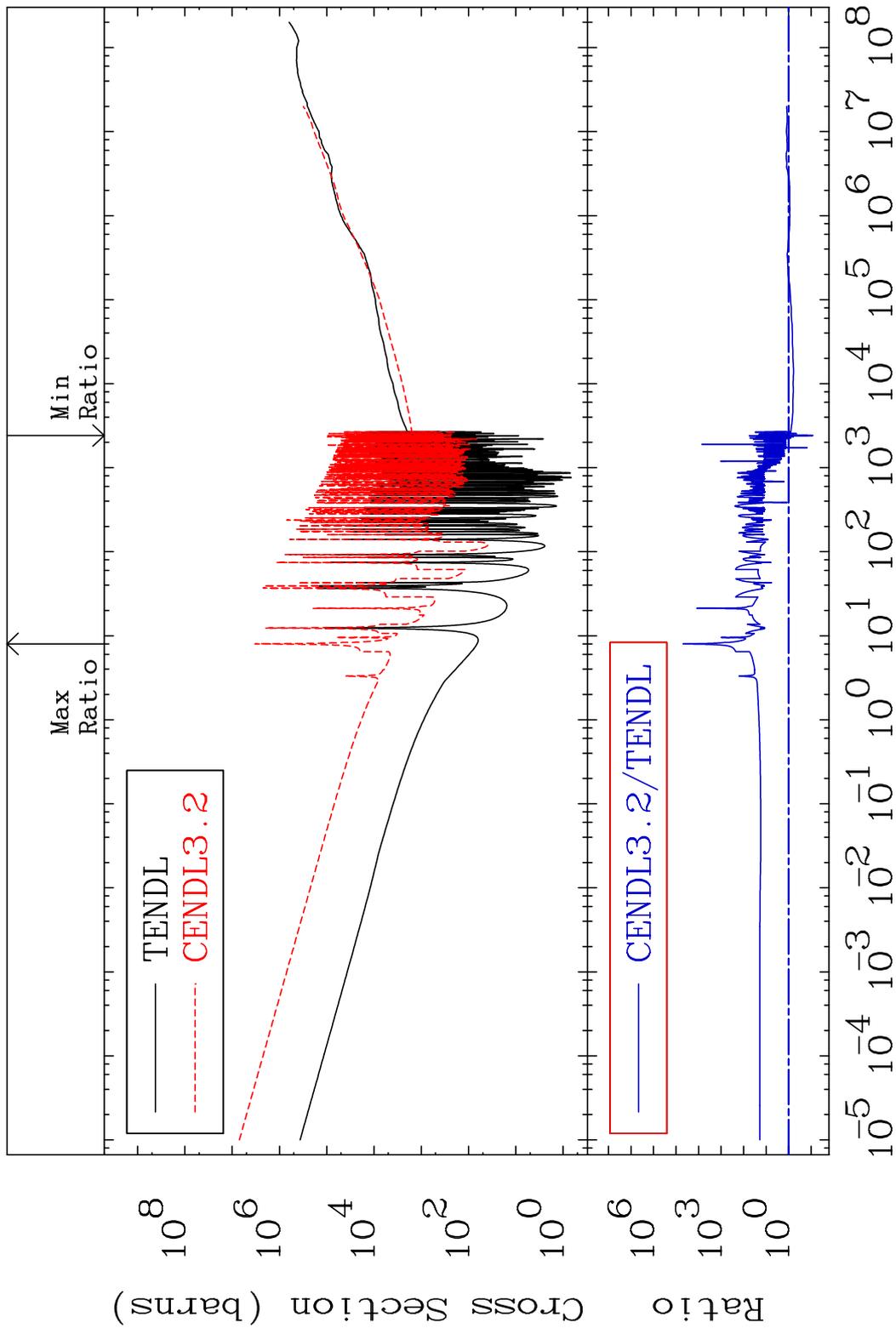


MAT 6425 Total kinematic kerma (high limit) 64-Gd-152  
Cross Section -84.75 To 9999. %



40 Incident Energy (eV) 64-Gd-152

MAT 6425      Dpa total (eV-barns)      64-Gd-152  
 Cross Section      -91.85 To 9999. %

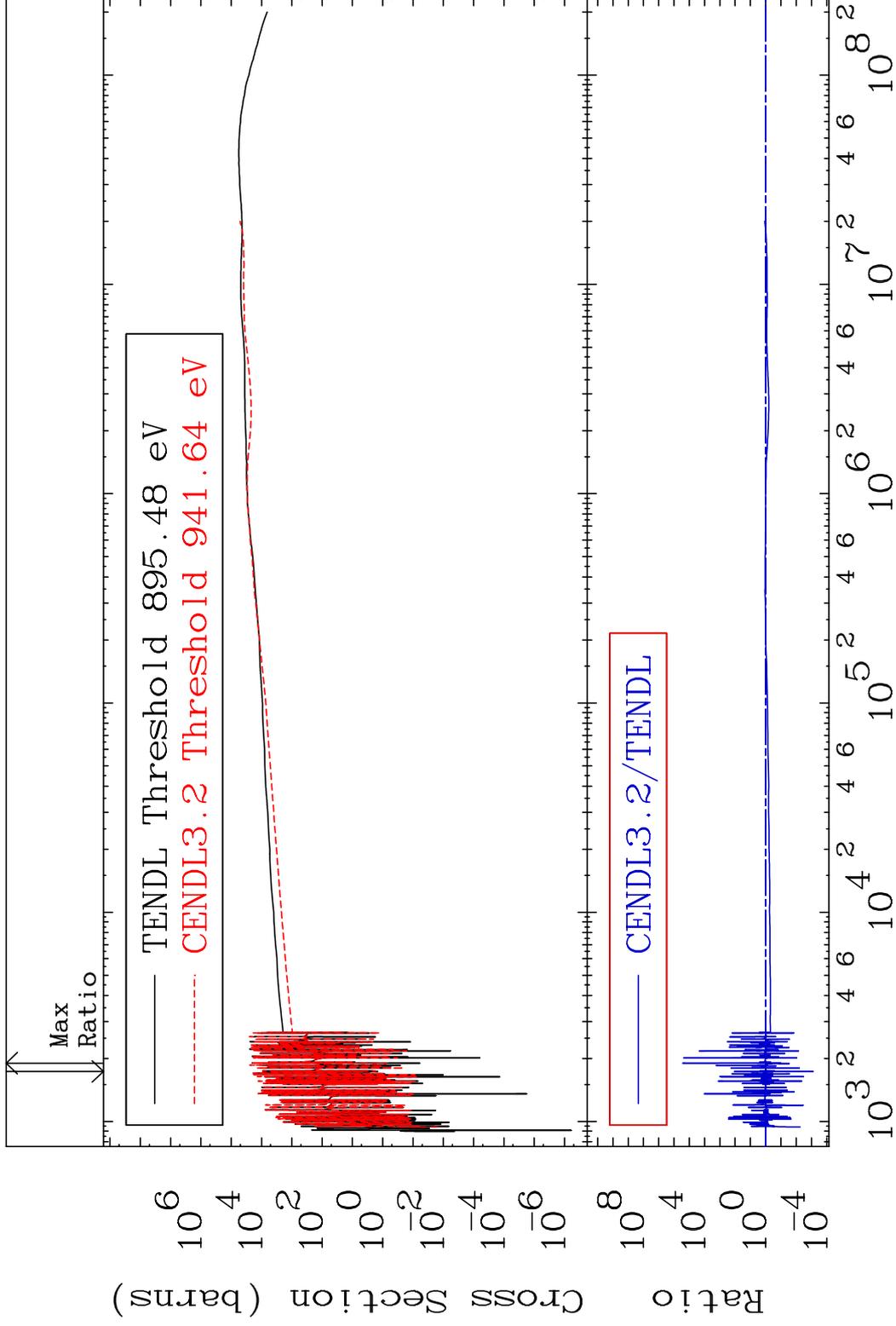


MAT 6425

Dpa elastic (mt2)

64-Gd-152

Cross Section -99.92 To 9999. %

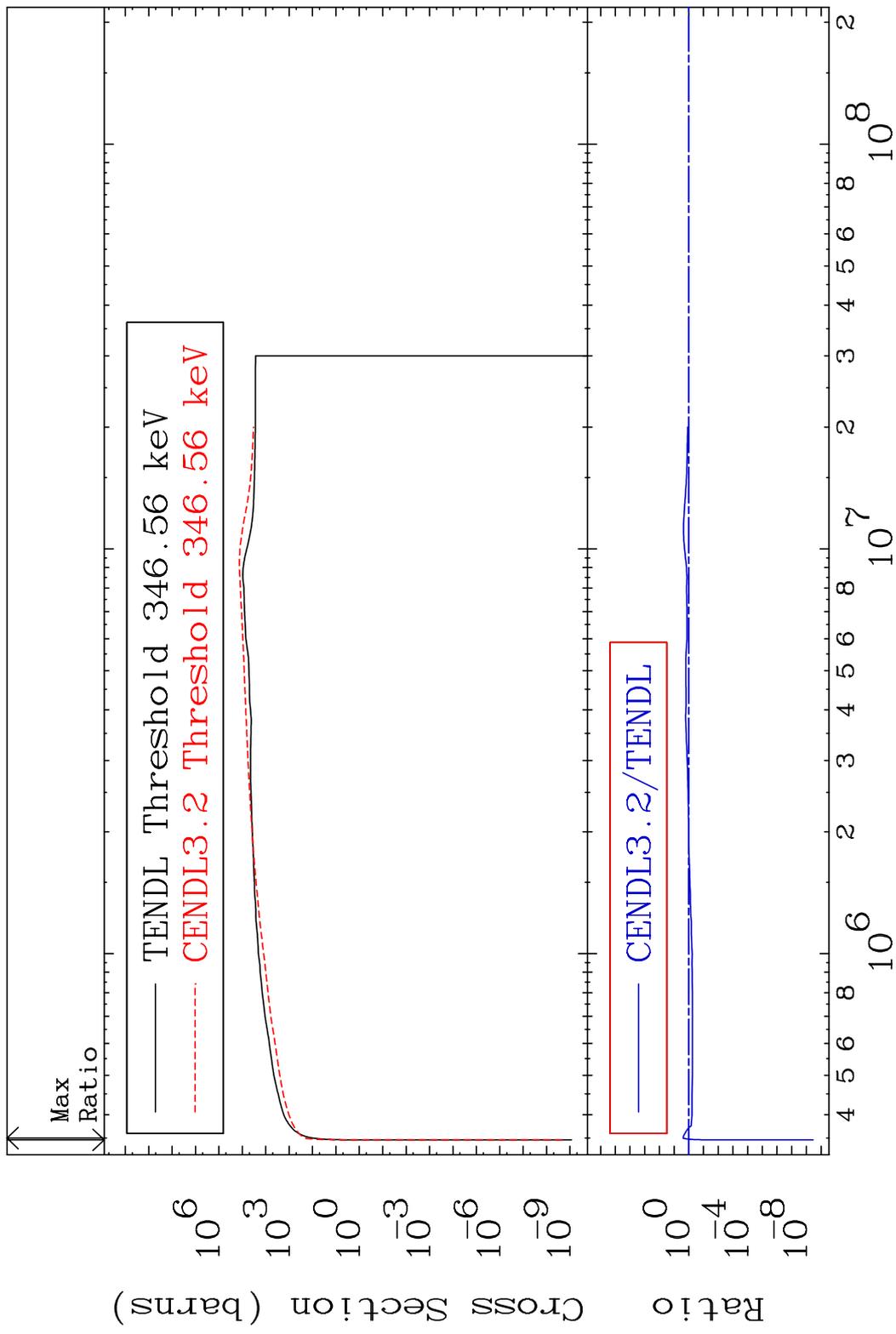


42

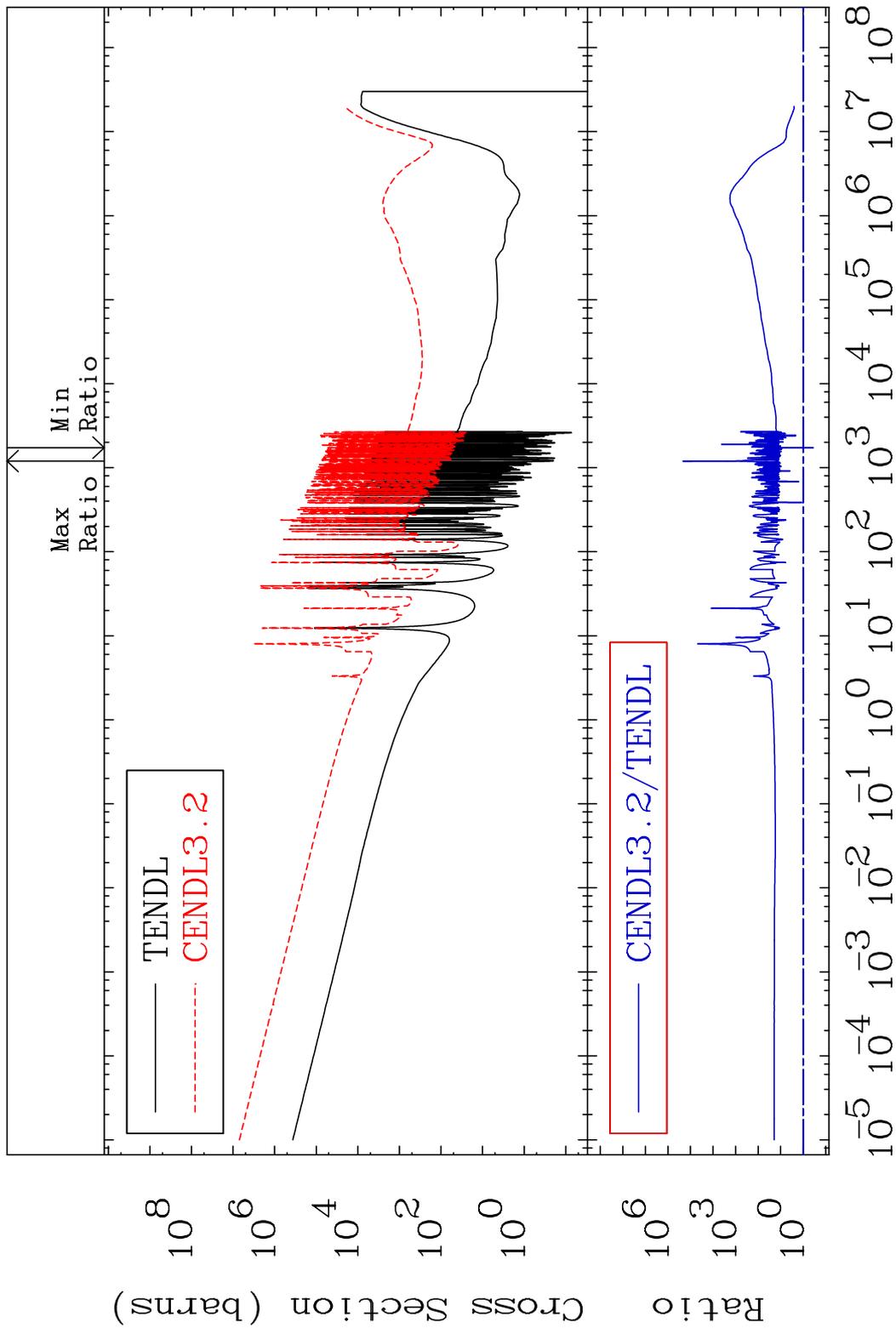
Incident Energy (eV)

64-Gd-152

MAT 6425      Dpa inelastic (mt51-91)      64-Gd-152  
 Cross Section      -100.0 To 155.3 %



MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152  
 Cross Section -63.79 To 9999. %

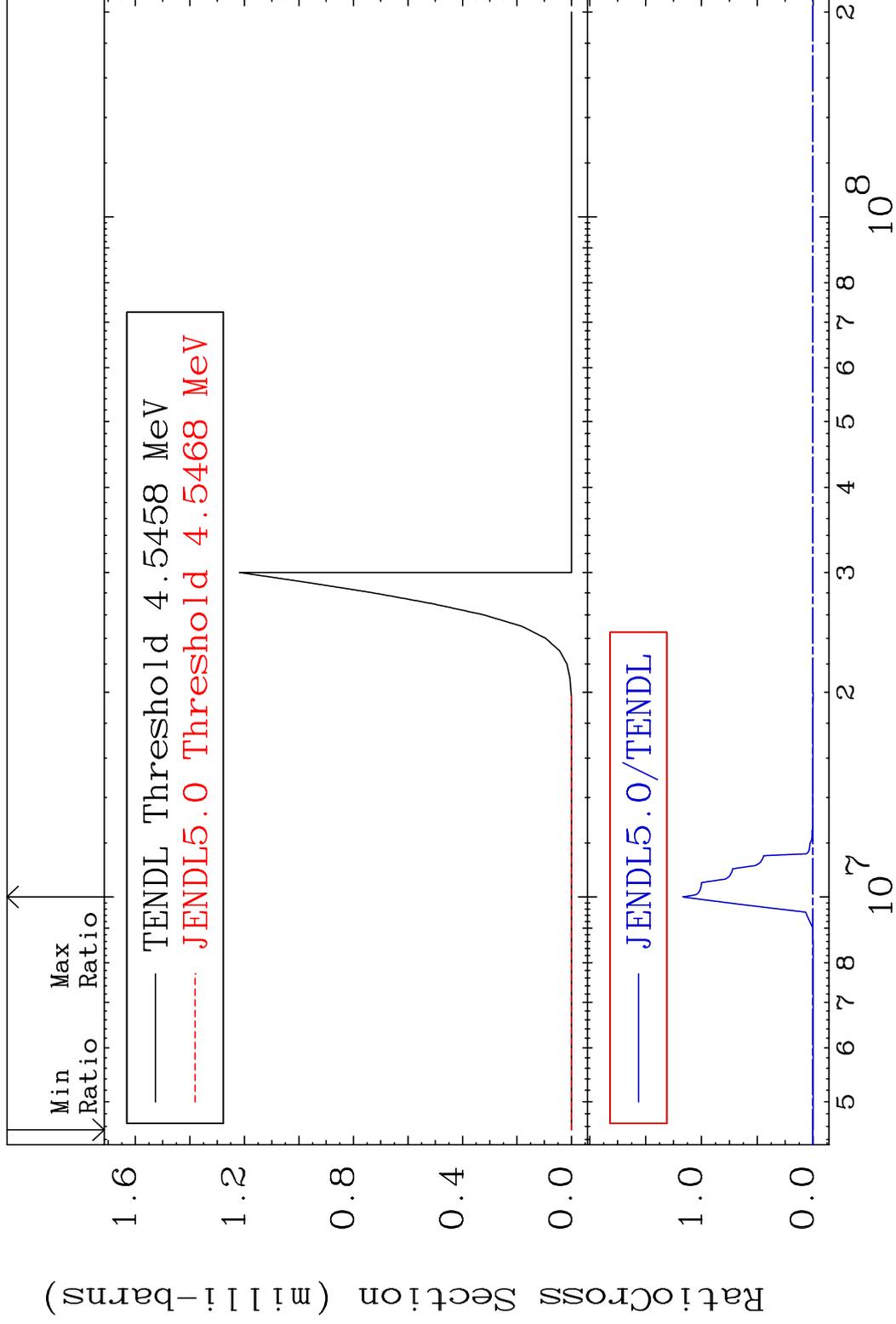


MAT 6425

(n, He-3)

64-Gd-152

Cross Section -100.0 To 9999. %



45

Incident Energy (eV)

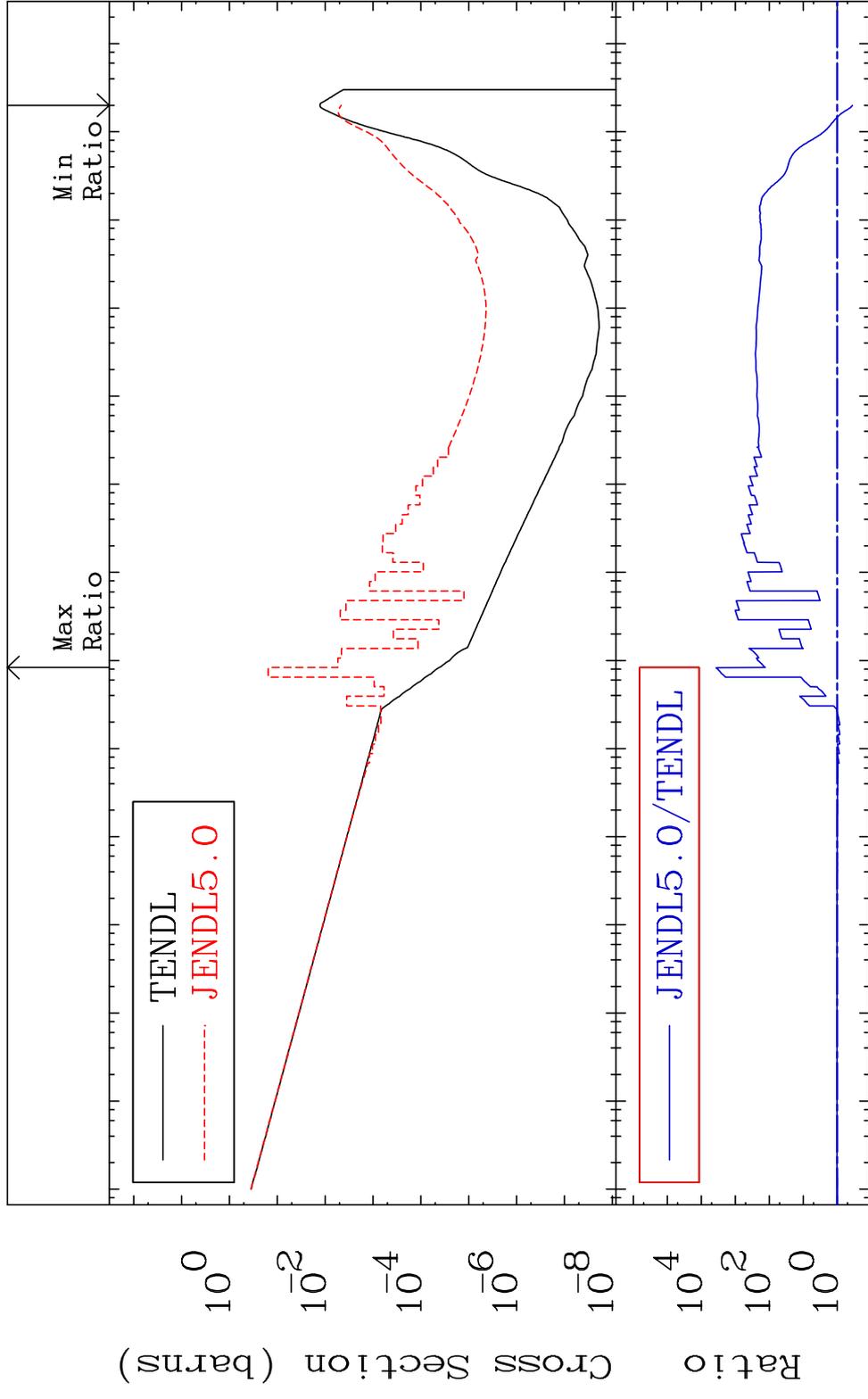
64-Gd-152

MAT 6425

64-Gd-152

(n,  $\alpha$ )

Cross Section -64.52 To 9999. %



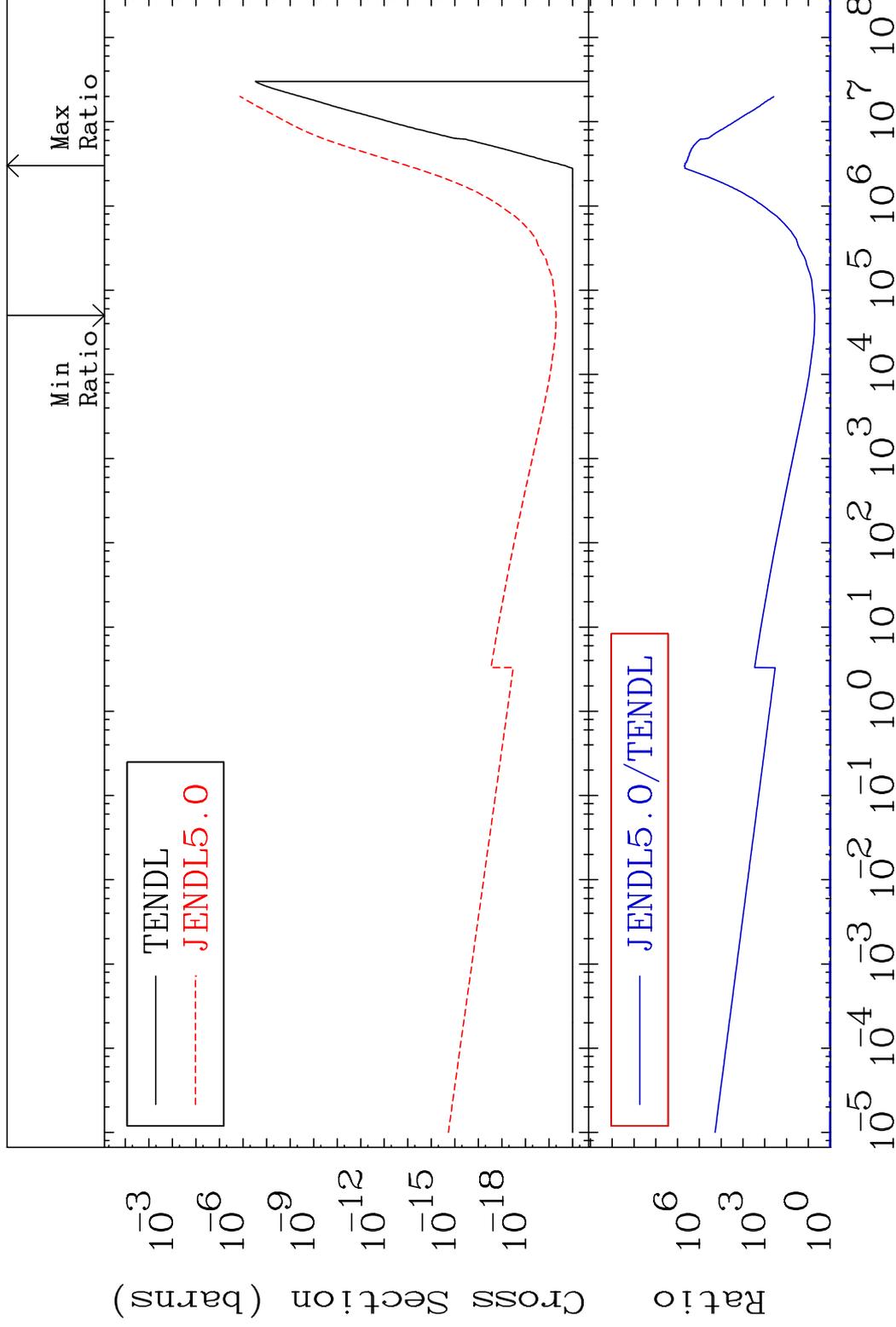
MAT 6425

(n, 2α)

64-Gd-152

Cross Section

408.2 To 9999. %

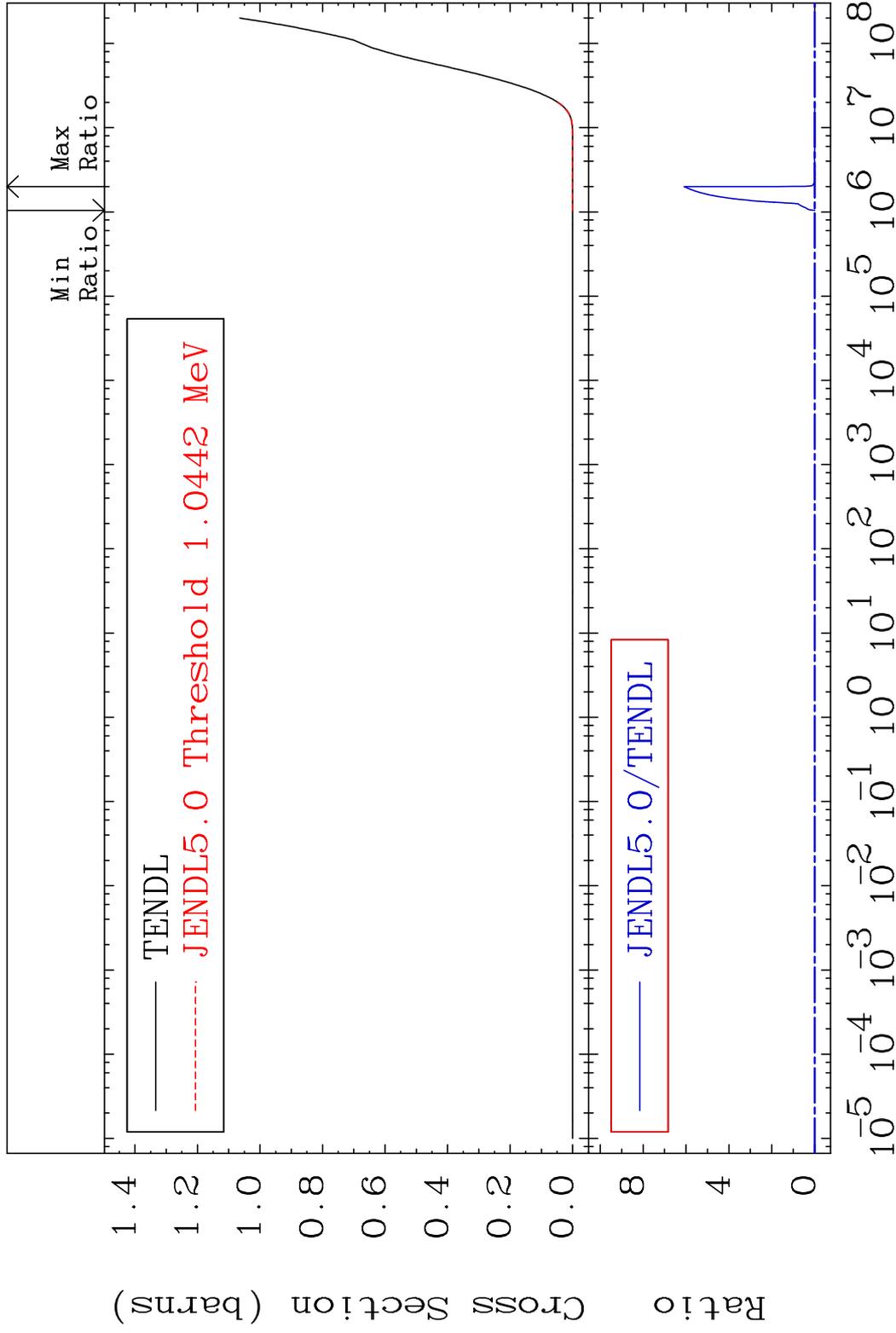


MAT 6425

Hydrogen Production

64-Gd-152

Cross Section -100.0 To 9999. %



48

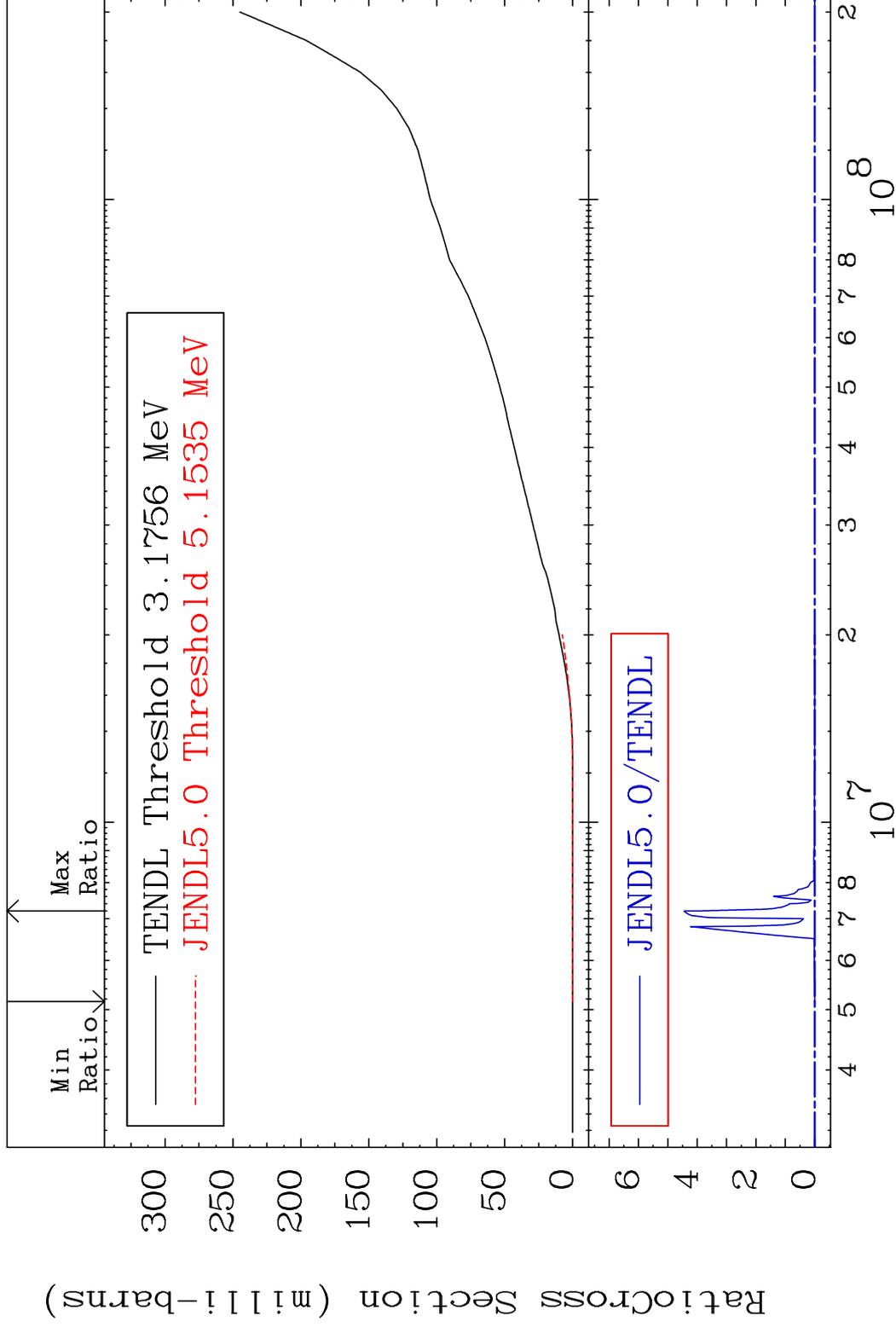
Incident Energy (eV)

64-Gd-152

MAT 6425

Deuterium Production 64-Gd-152

Cross Section -100.0 To 9999. %

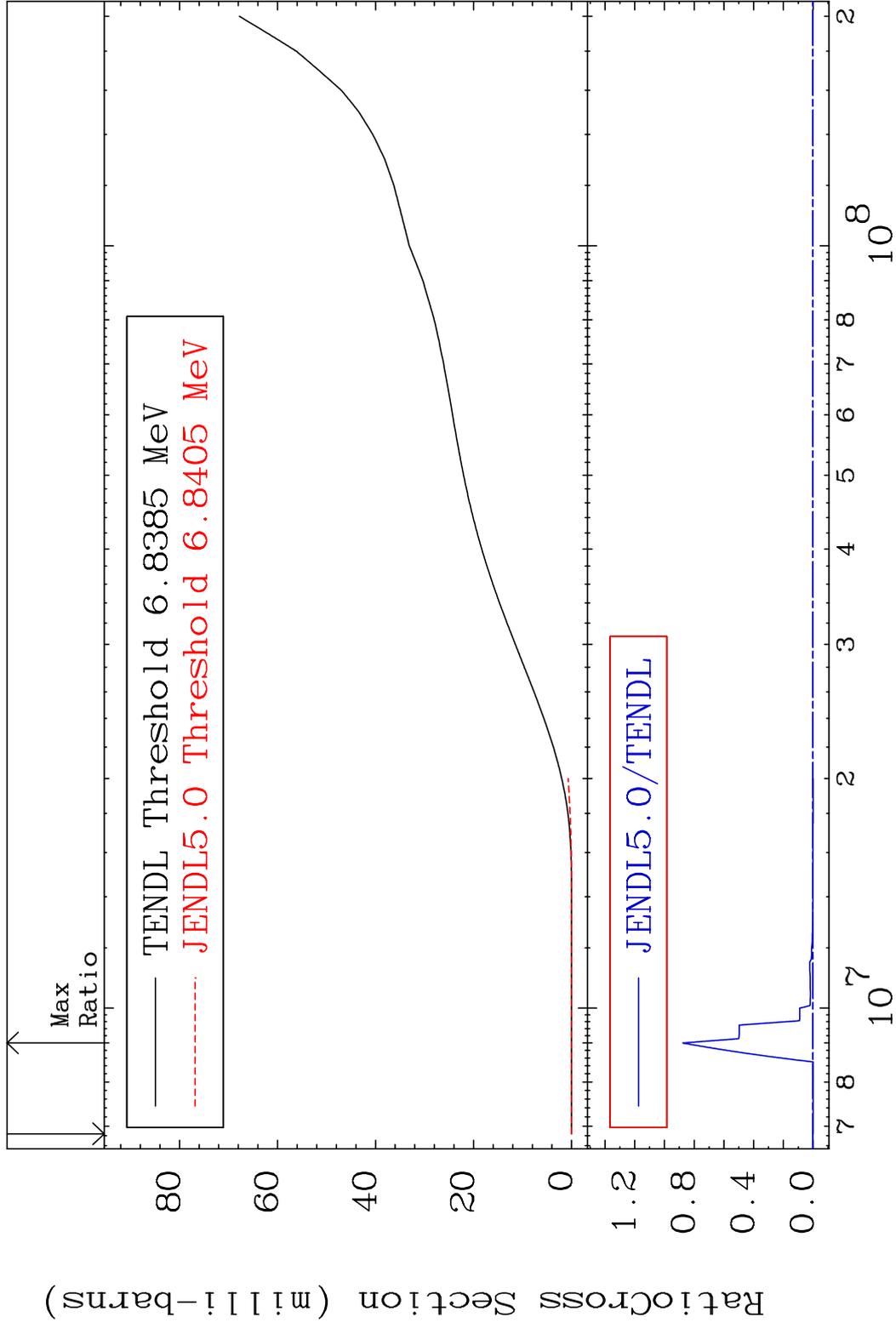


49

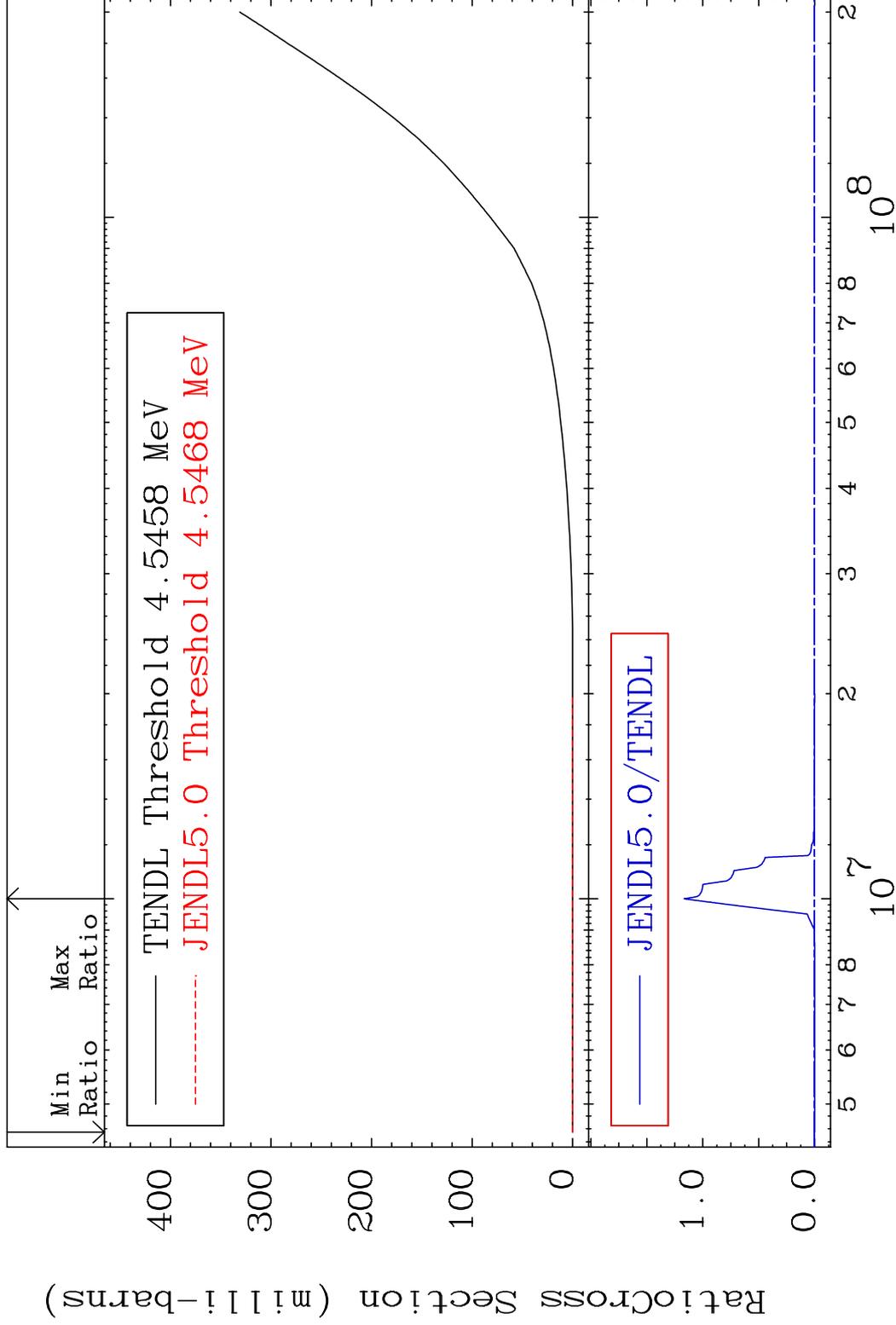
Incident Energy (eV)

64-Gd-152

MAT 6425 Tritium Production 64-Gd-152  
 Cross Section -100.0 To 9999. %



Cross Section -100.0 To 9999. %

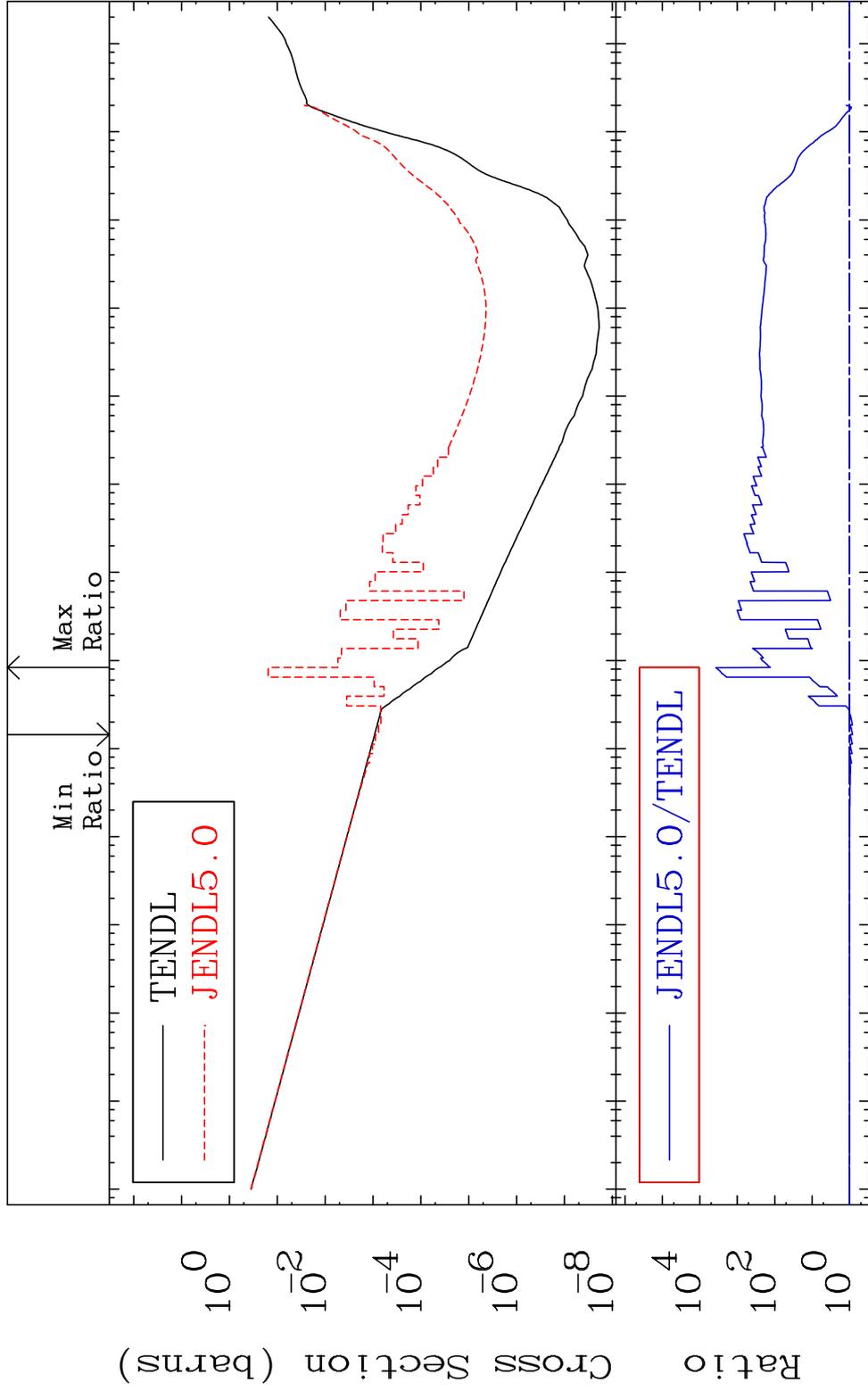


MAT 6425

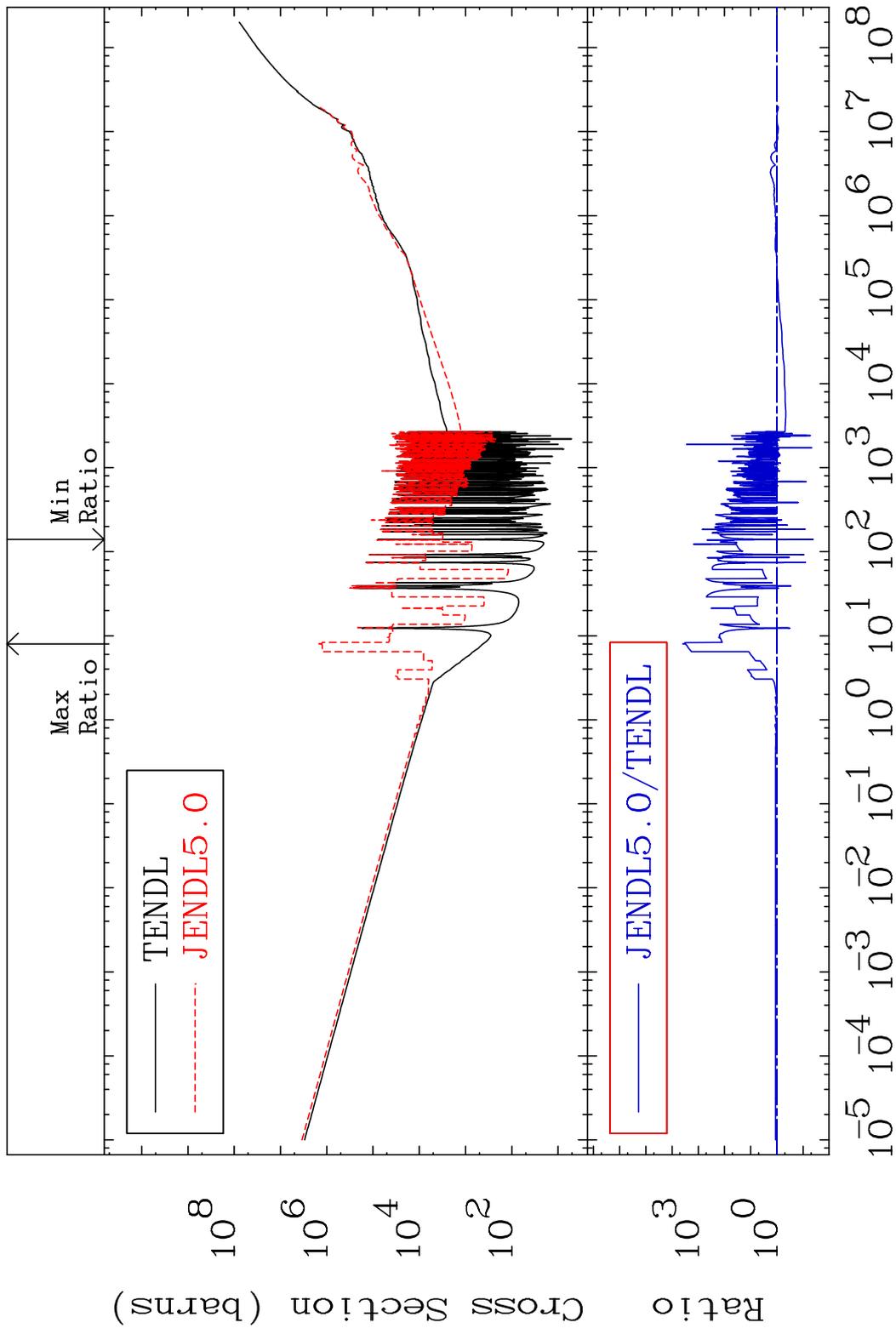
He-4 Production

64-Gd-152

Cross Section -16.59 To 9999. %

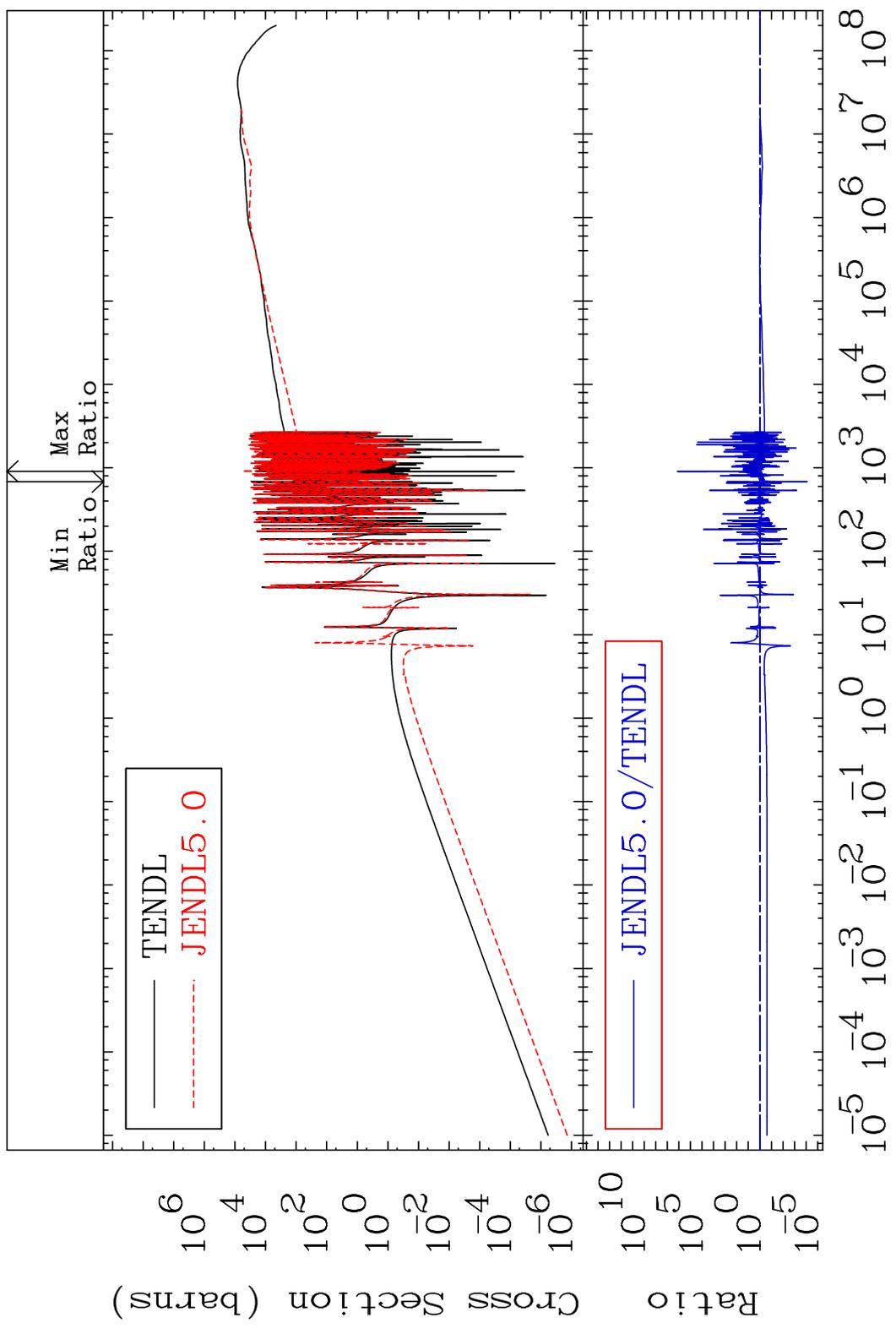


MAT 6425 Kerma total (eV-barns) 64-Gd-152  
 Cross Section -95.84 To 9999. %

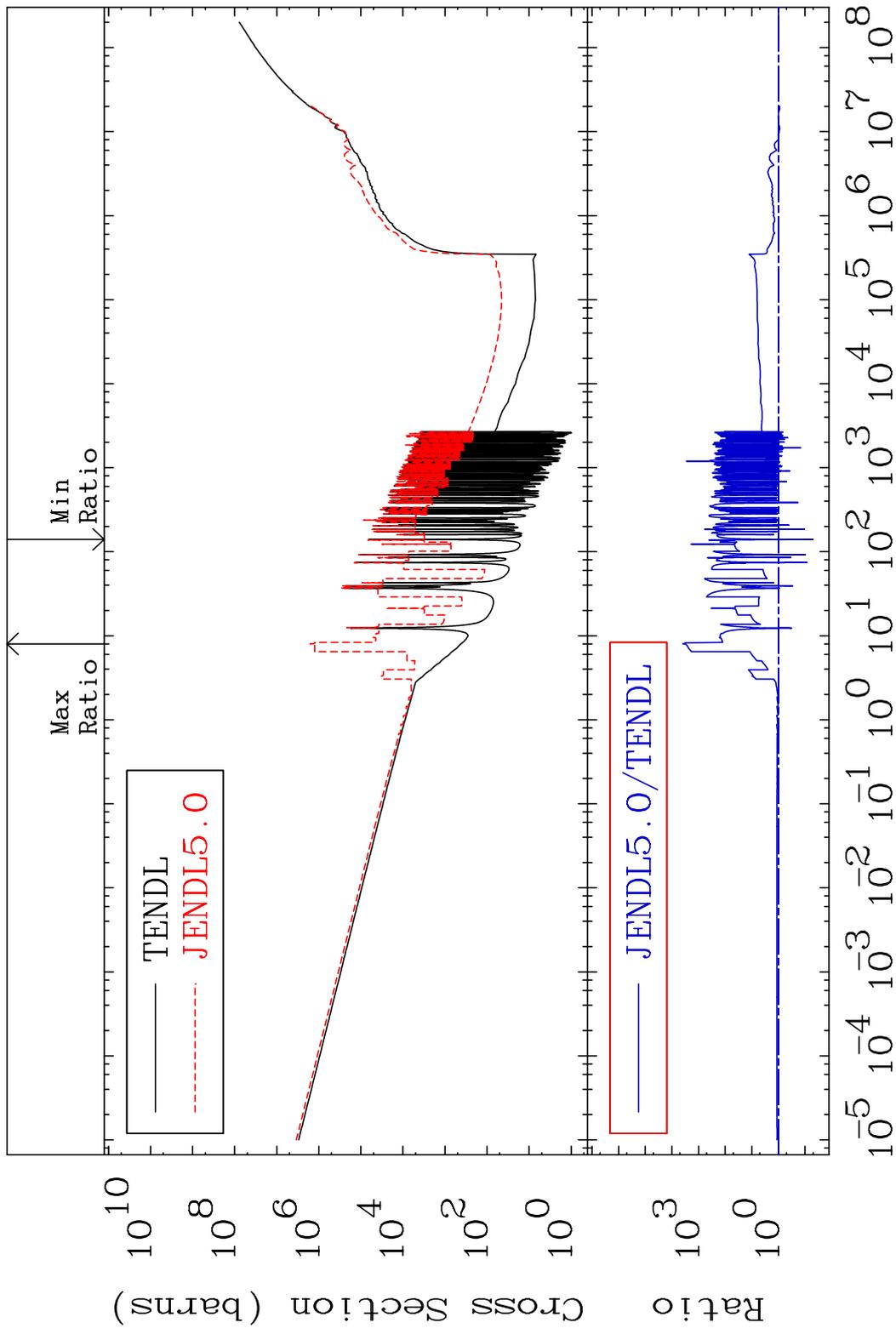


MAT 6425

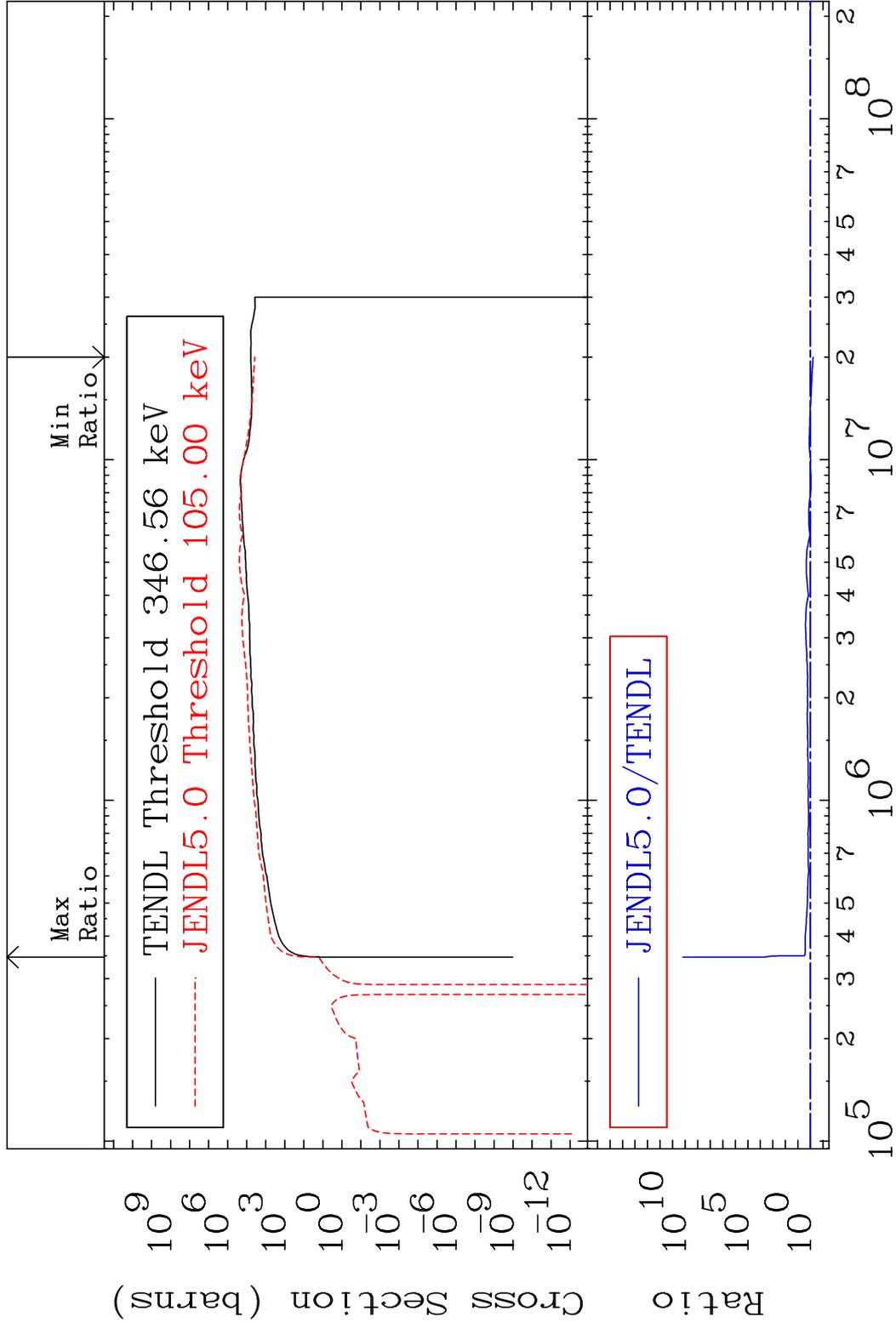
Kerma elastic 64-Gd-152  
Cross Section -99.99 To 9999. %



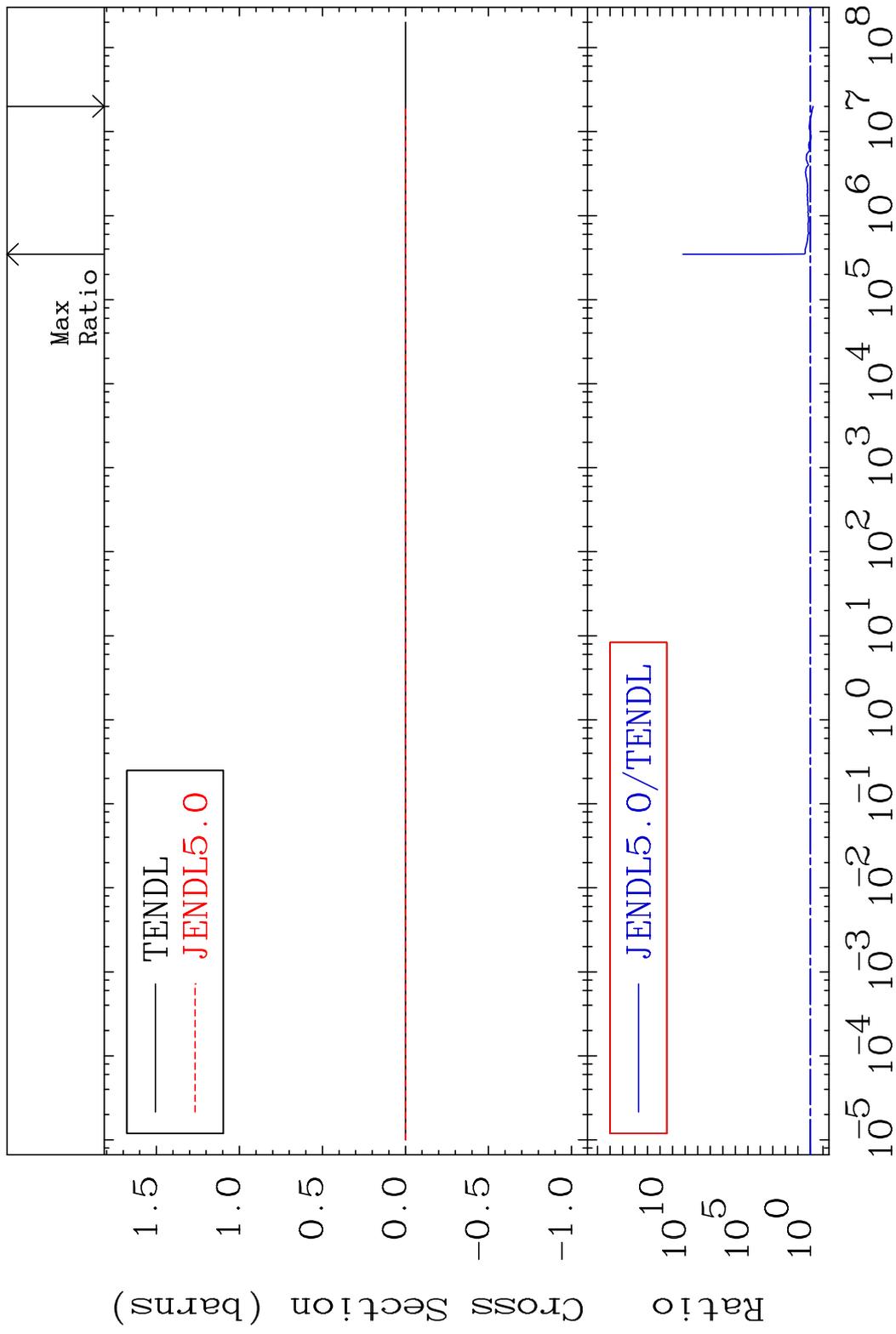
MAT 6425 Kerma non-elastic (all but mt2) 64-Gd-152  
 Cross Section -95.02 To 9999. %



MAT 6425 Kerma inelastic (mt51-91) 64-Gd-152  
 Cross Section -38.73 To 9999. %

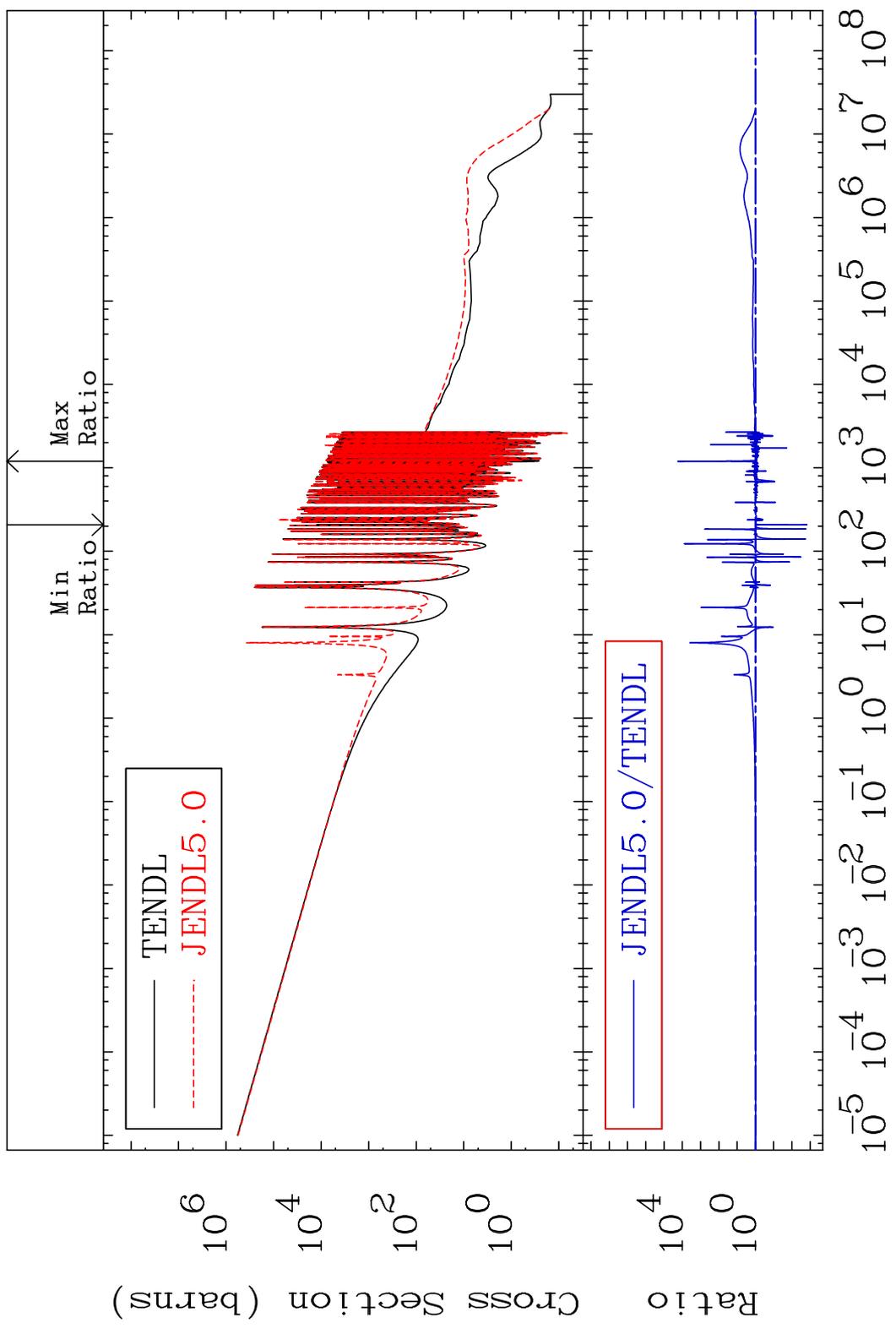


MAT 6425 Kerma fission (mt18 or mt19-20-21-38) 64-Gd-152  
 Cross Section -38.73 To 9999. %

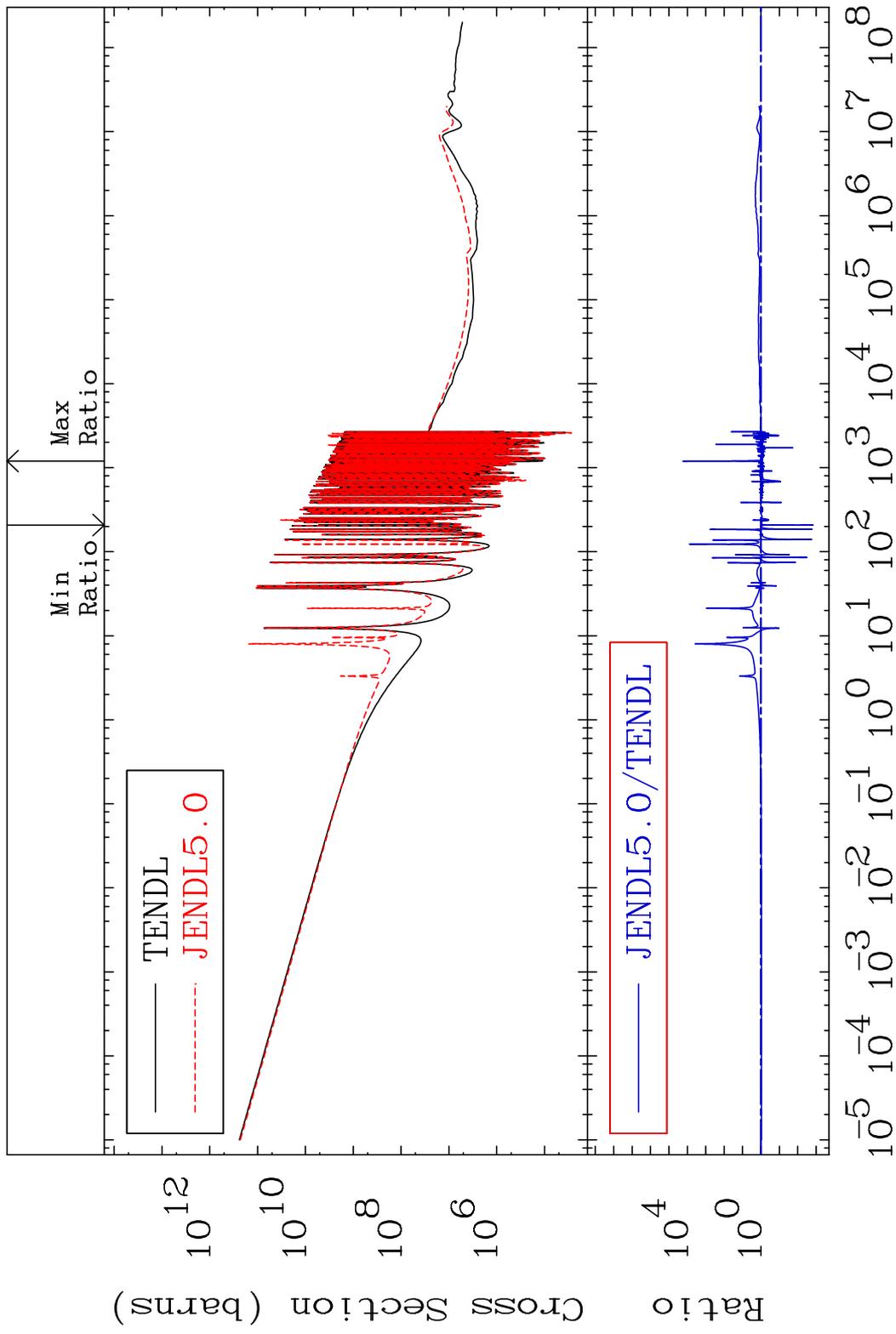


MAT 6425

Kerma capture (mt102) 64-Gd-152  
Cross Section -99.85 To 9999. %

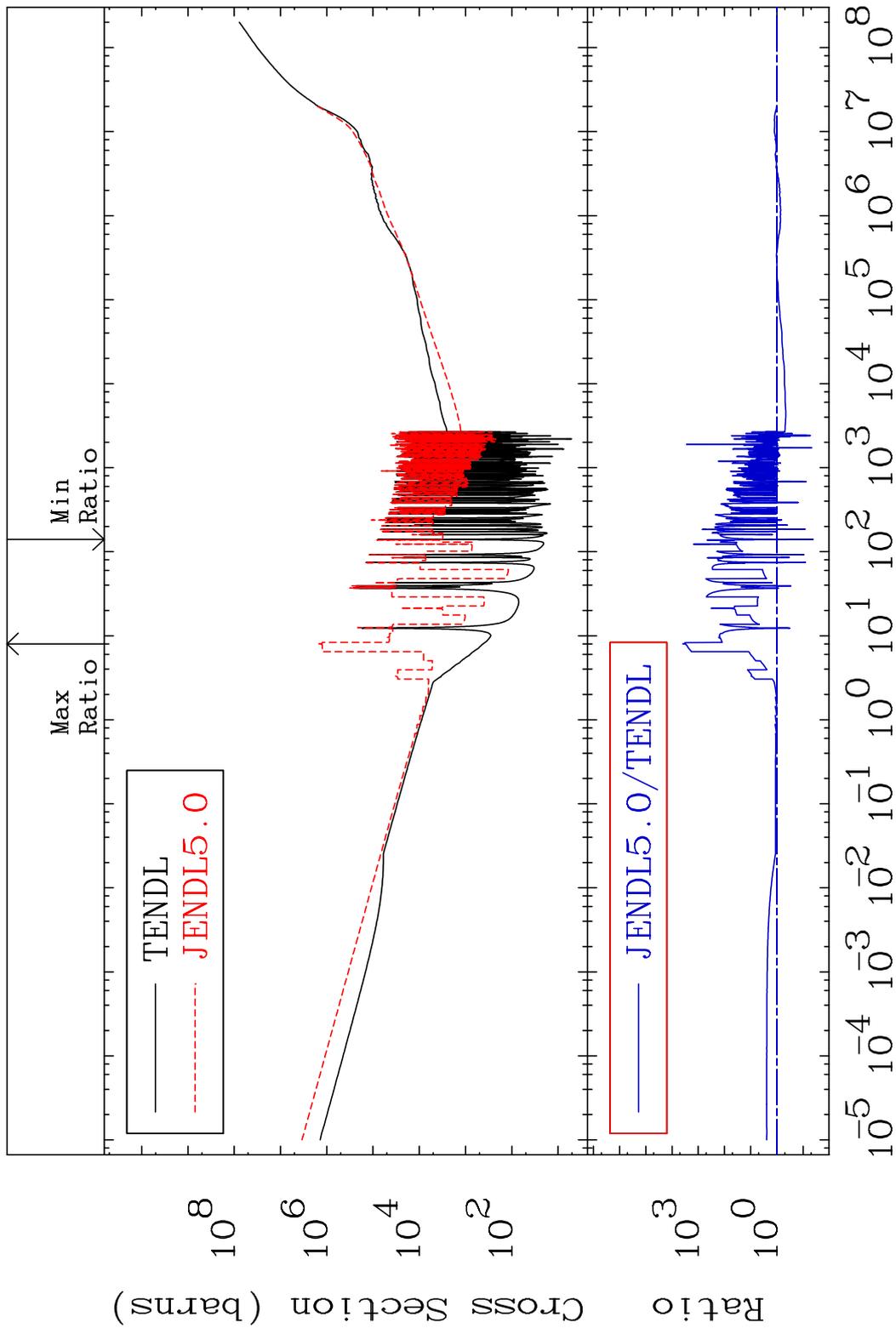


MAT 6425 Total photon (eV-barns) 64-Gd-152  
Cross Section -99.85 To 9999. %

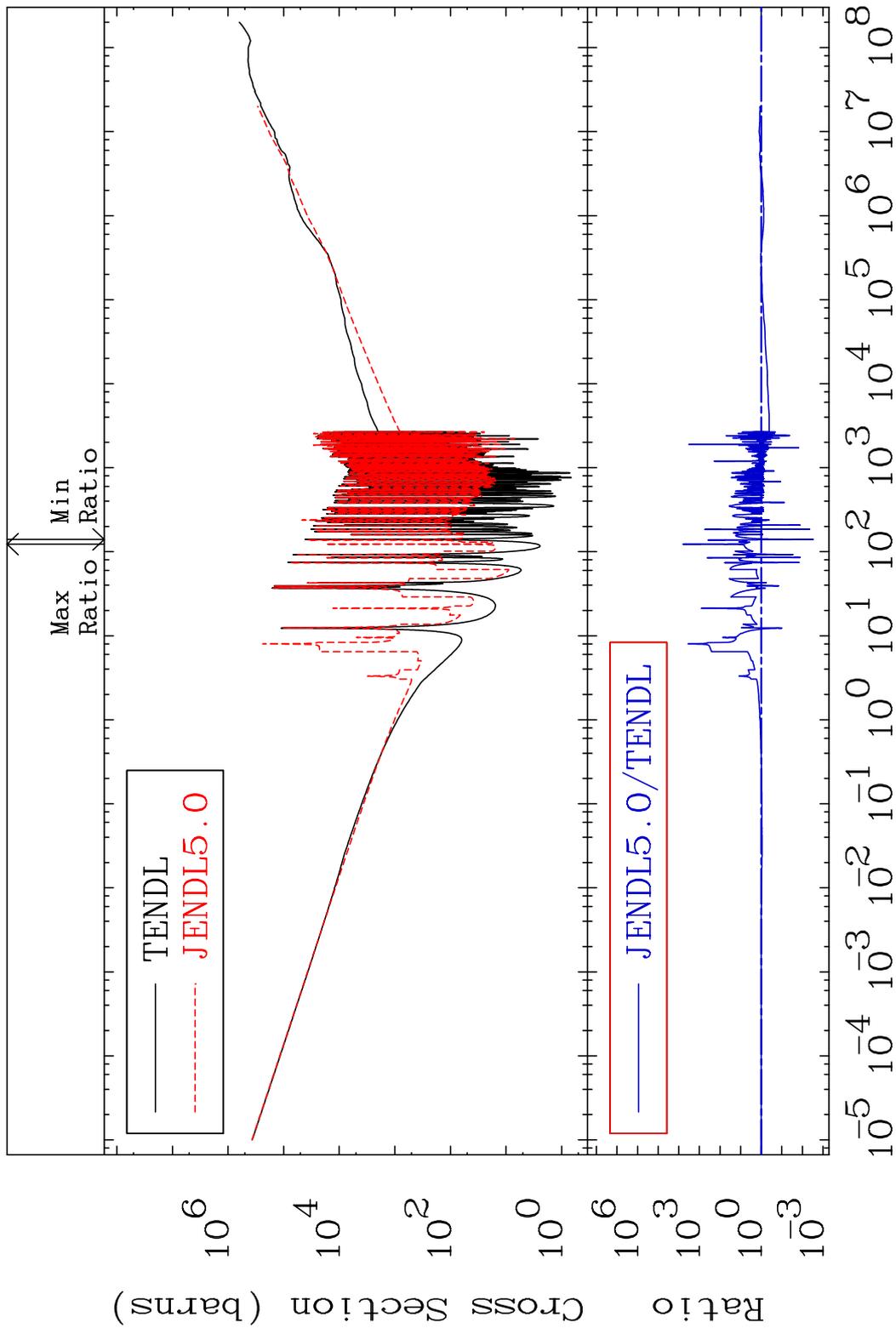


59 Incident Energy (eV) 64-Gd-152

MAT 6425 Total kinematic kerma (high limit) 64-Gd-152  
Cross Section -95.84 To 9999. %



MAT 6425 Dpa total (eV-barns) 64-Gd-152  
 Cross Section -99.70 To 9999. %



61 Incident Energy (eV) 64-Gd-152

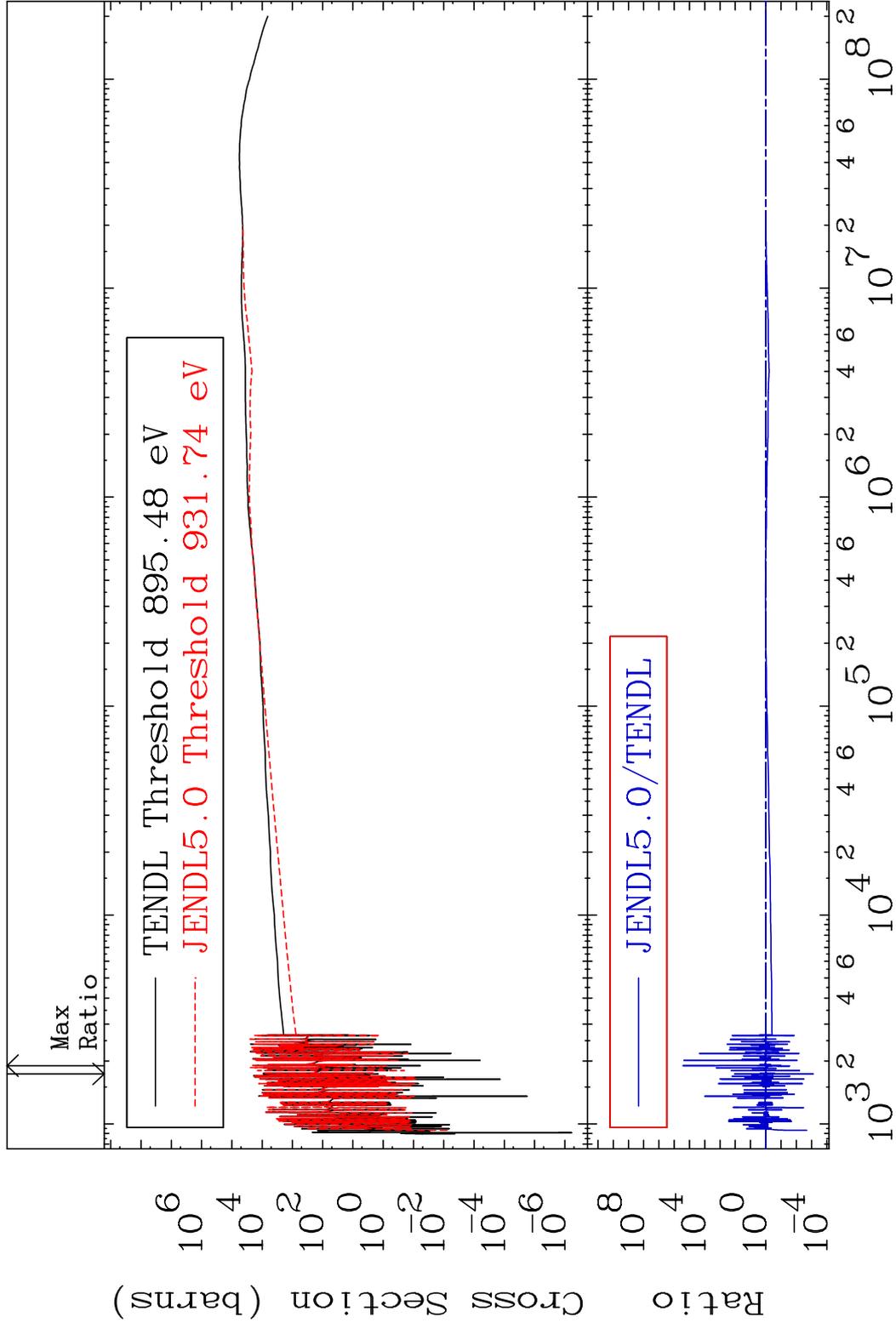
MAT 6425

Dpa elastic (mt2)

64-Gd-152

Cross Section

-99.92 To 9999. %

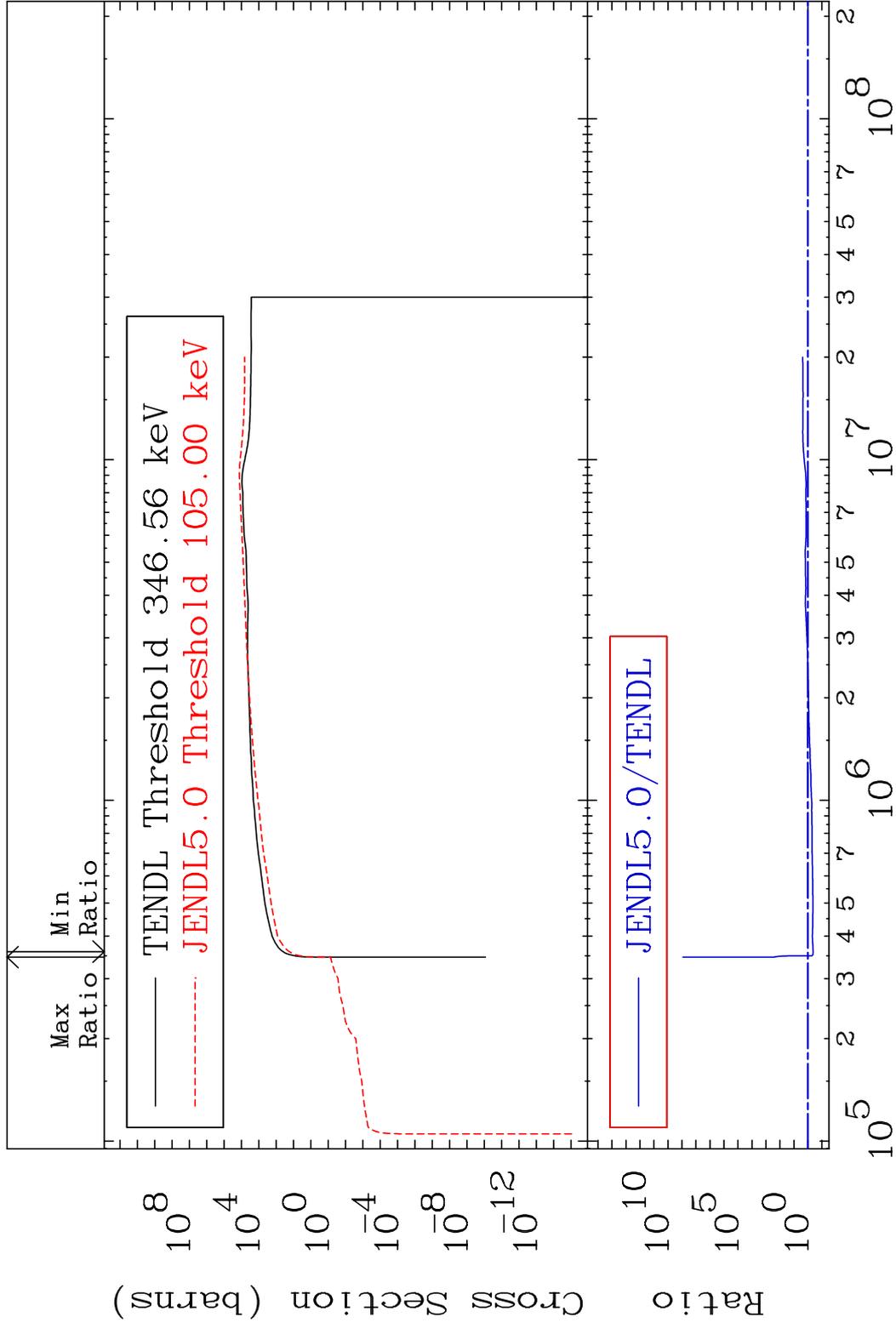


62

Incident Energy (eV)

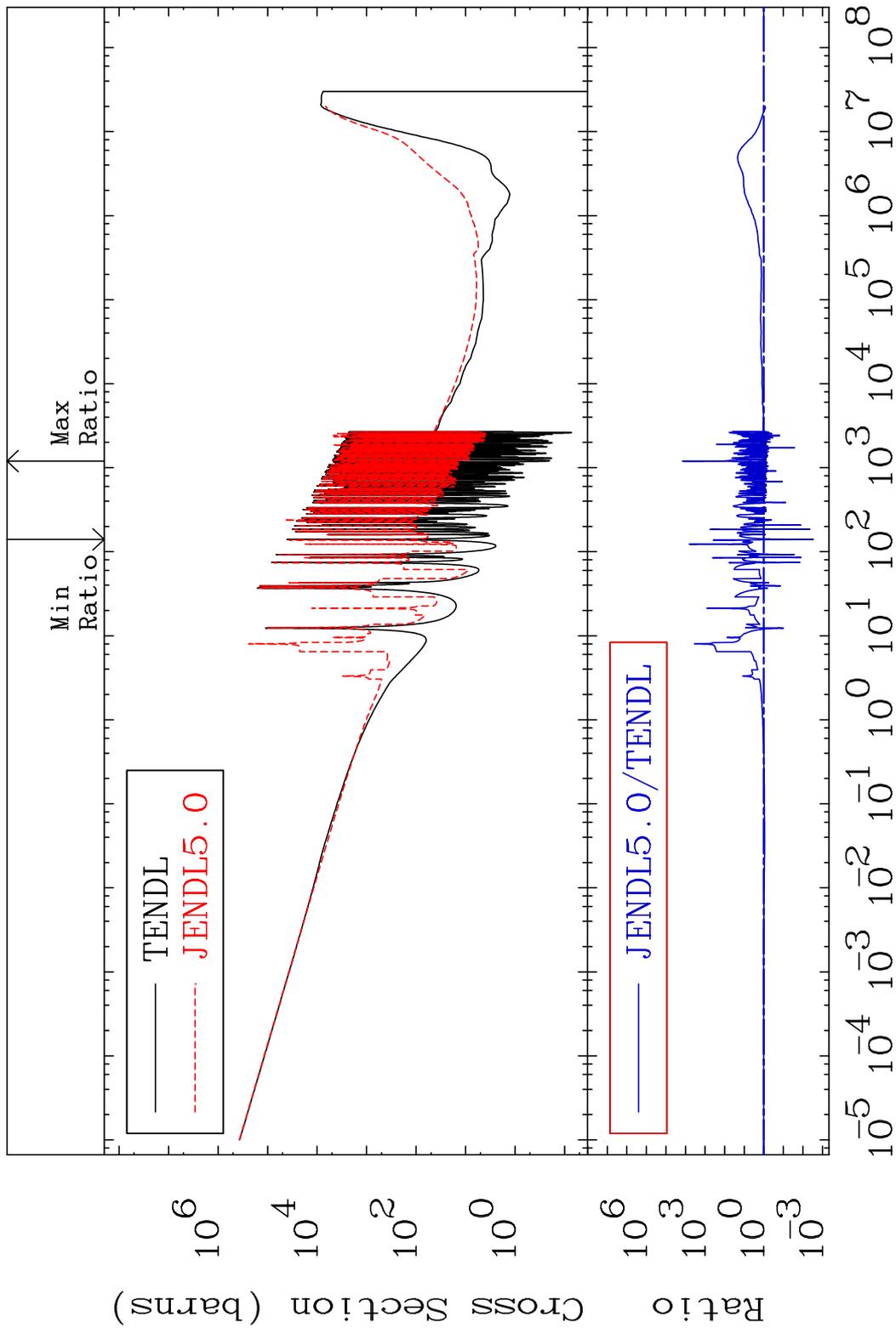
64-Gd-152

MAT 6425 Dpa inelastic (mt51-91) 64-Gd-152  
 Cross Section -57.63 To 9999. %

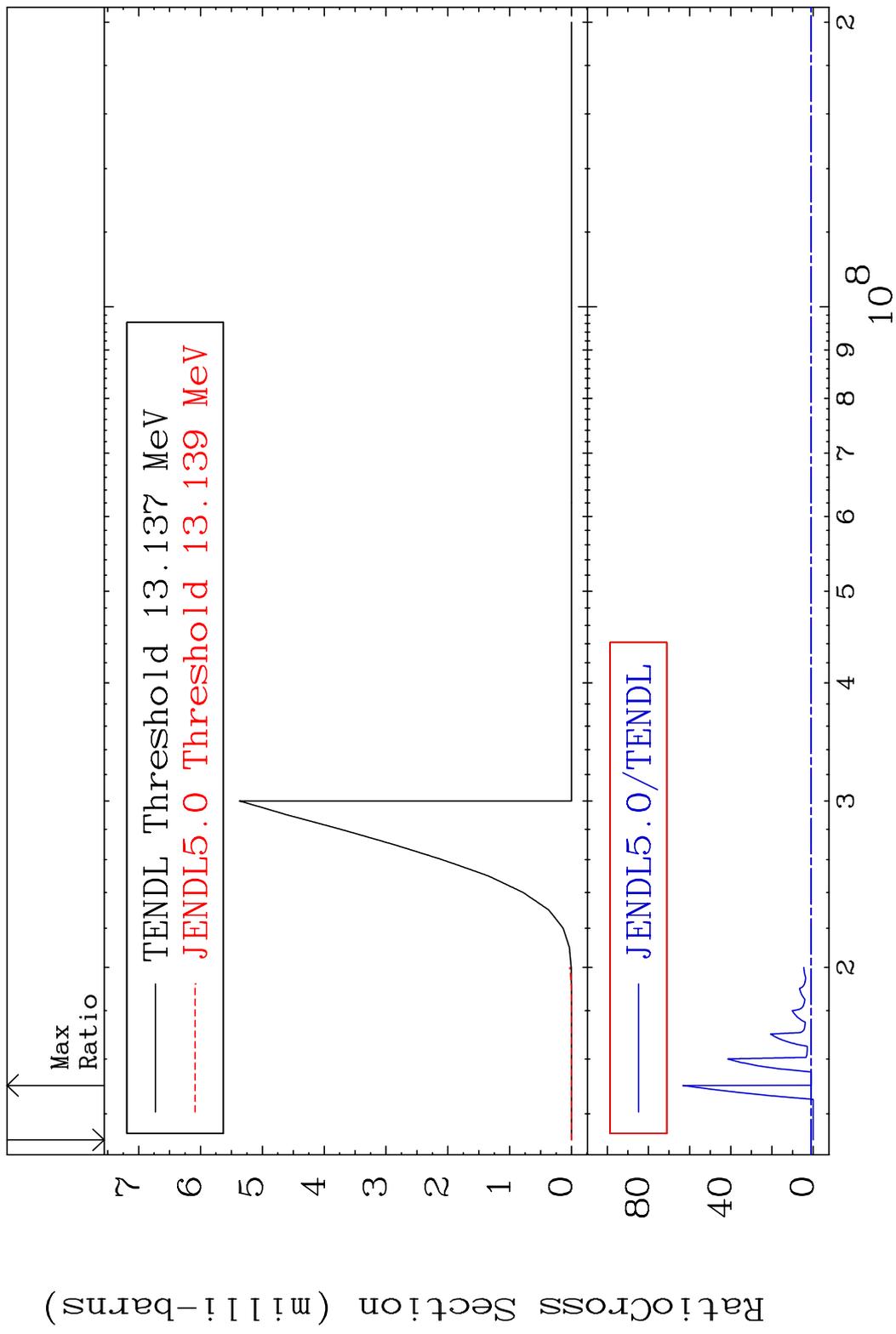


63 Incident Energy (eV) 64-Gd-152

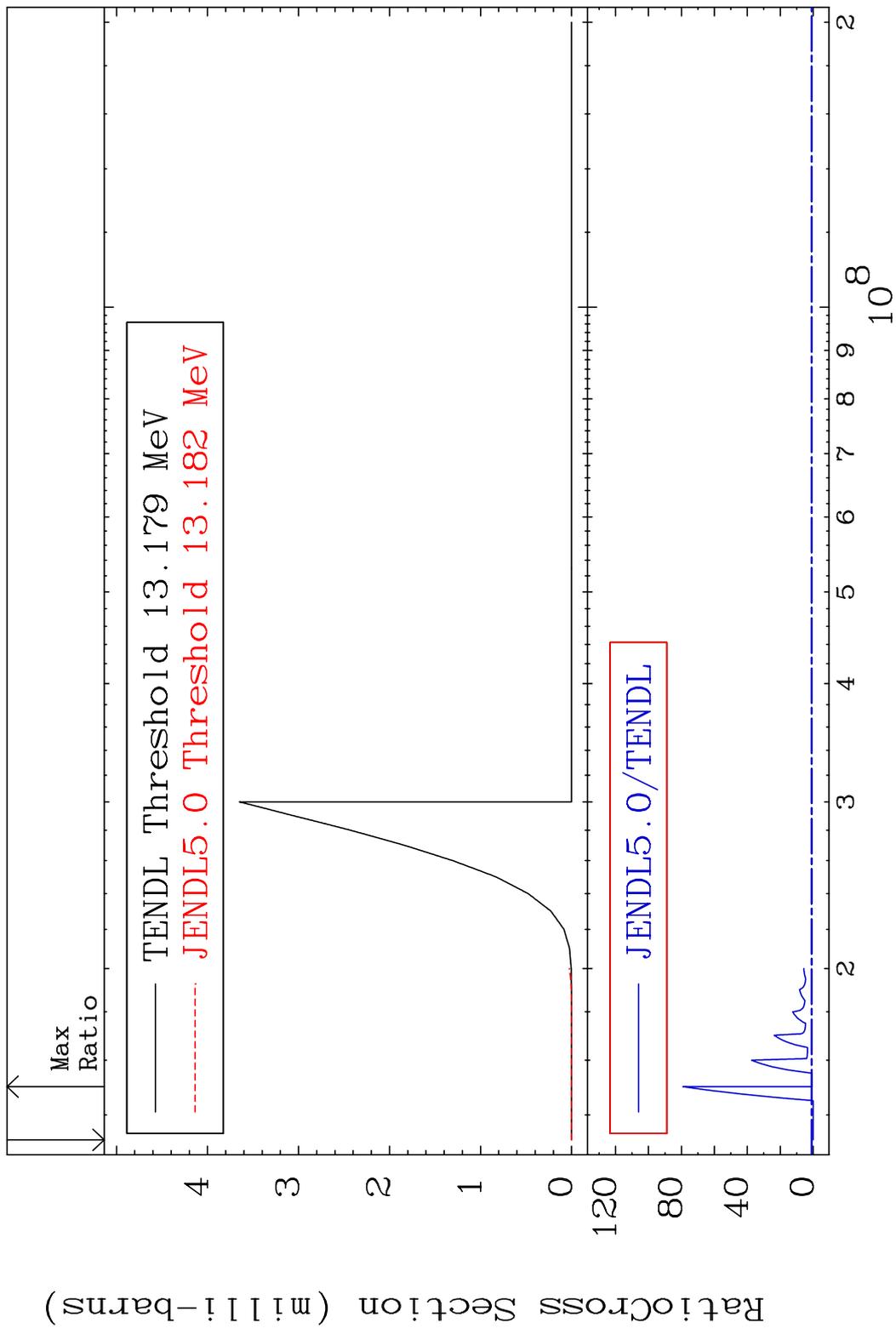
MAT 6425 Dpa disappearance (mt102 -120) 64-Gd-152  
 Cross Section -99.70 To 9999. %

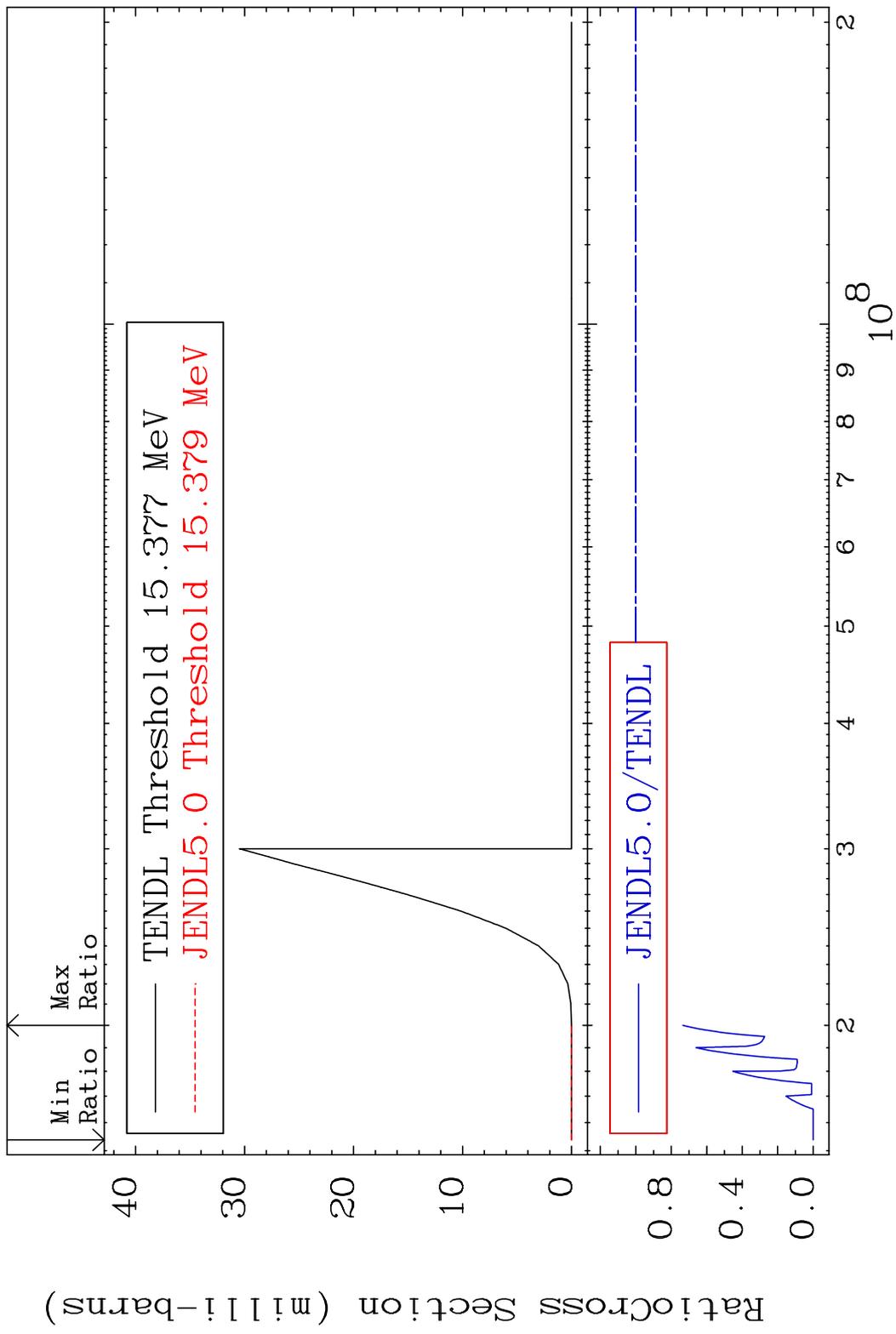


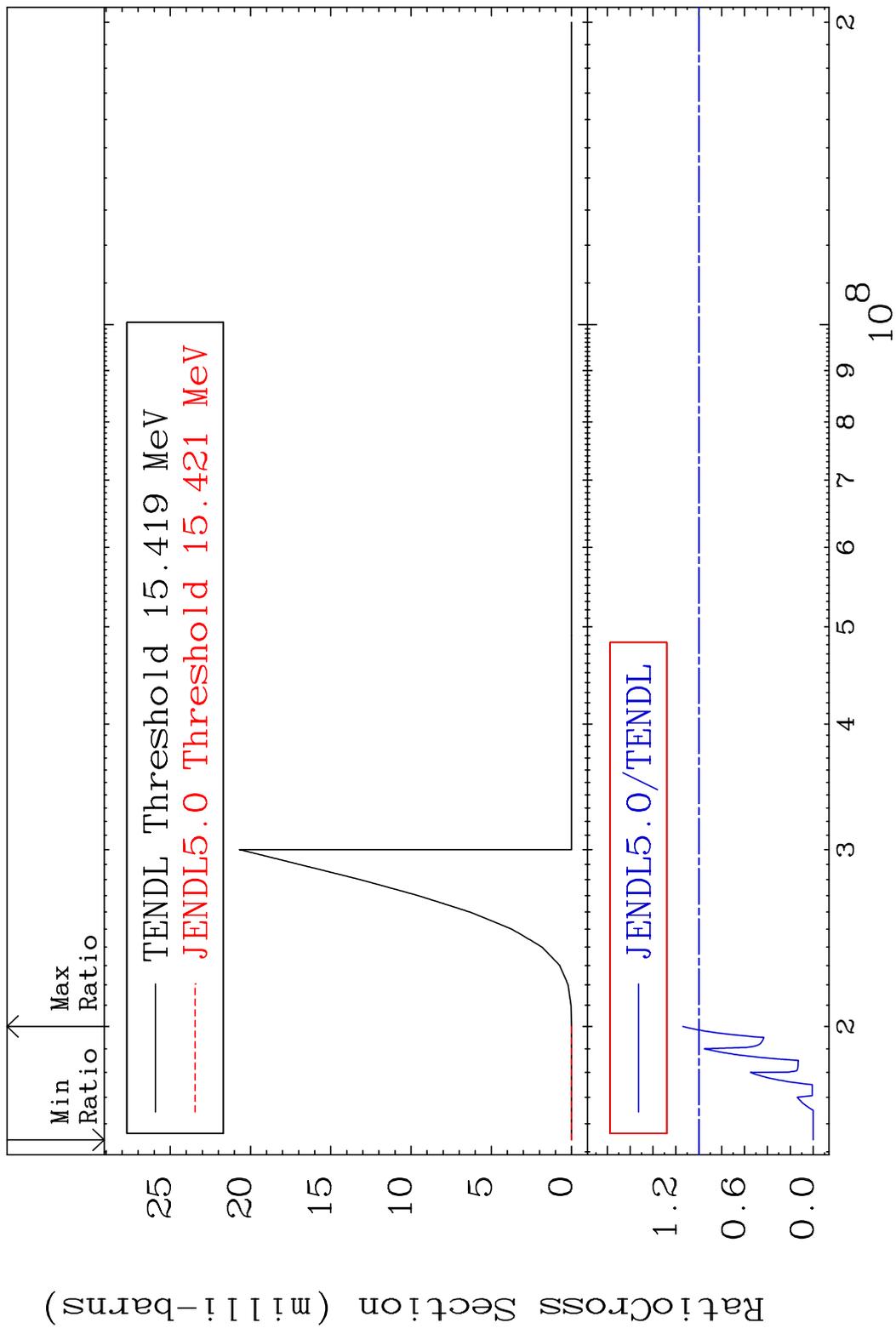
64 Incident Energy (eV) 64-Gd-152



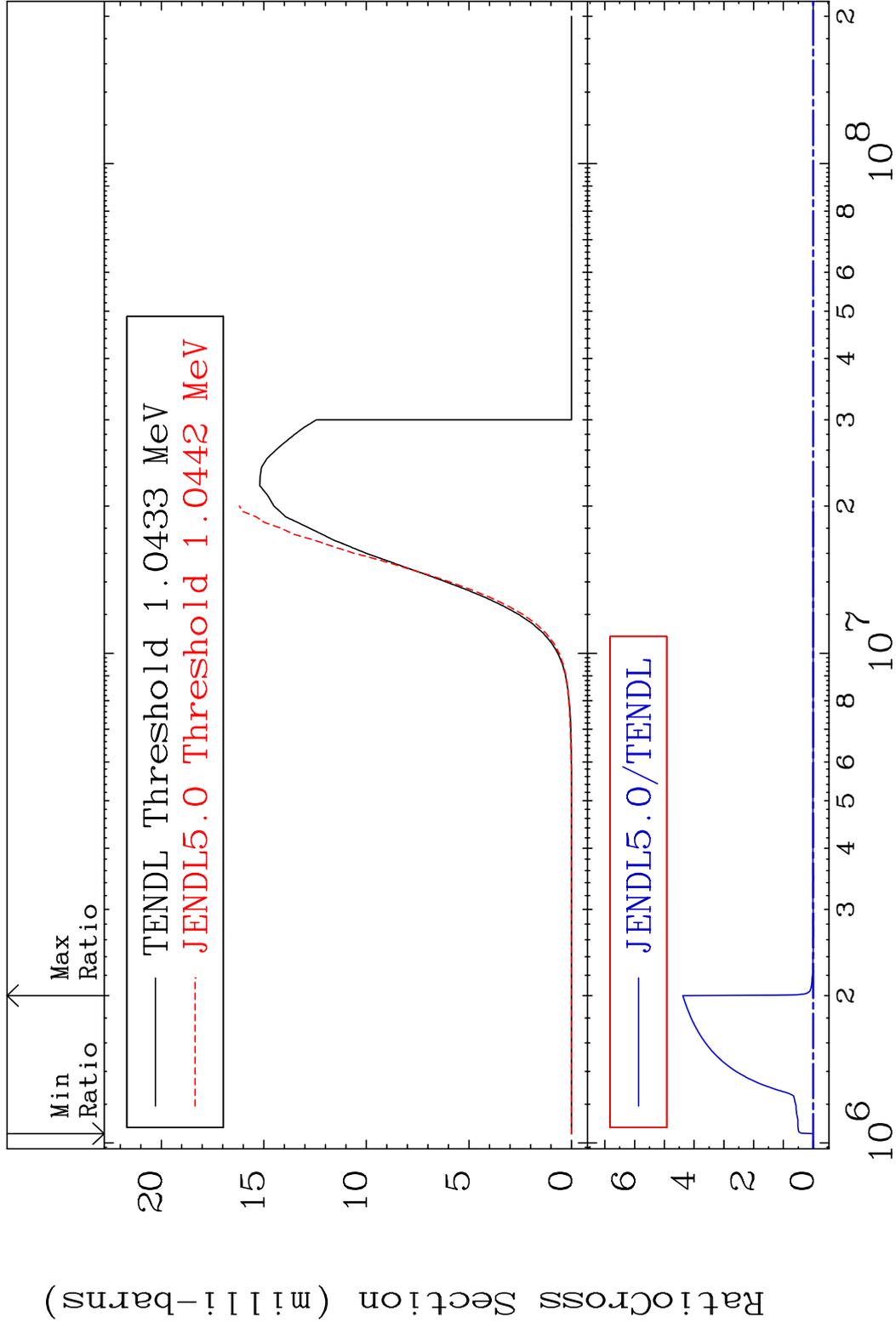
MAT 6425 (n, n') d:63-Eu-150m1 64-Gd-152  
 Radionuclide Production Cross Section 180.0 dth 7814. %





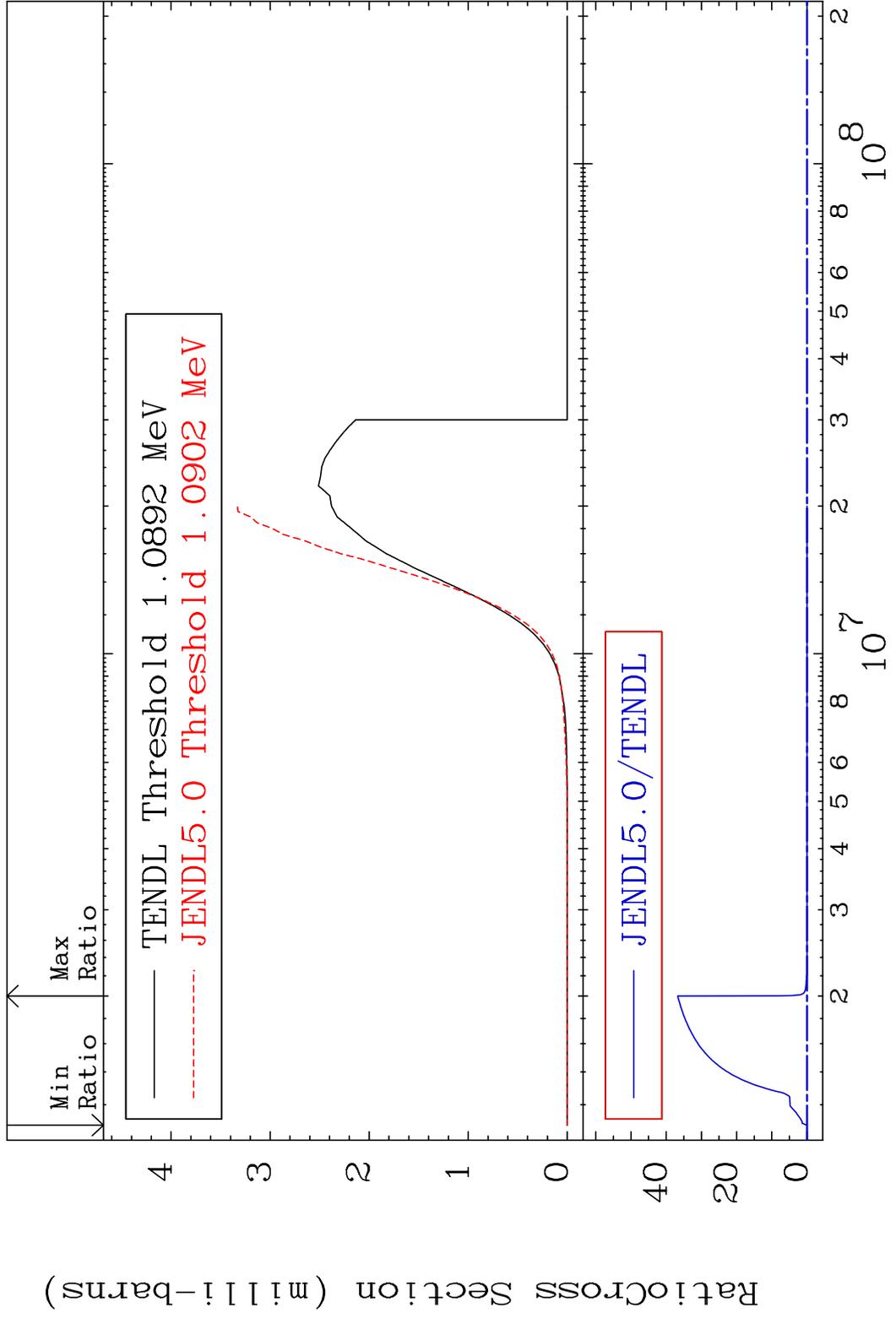


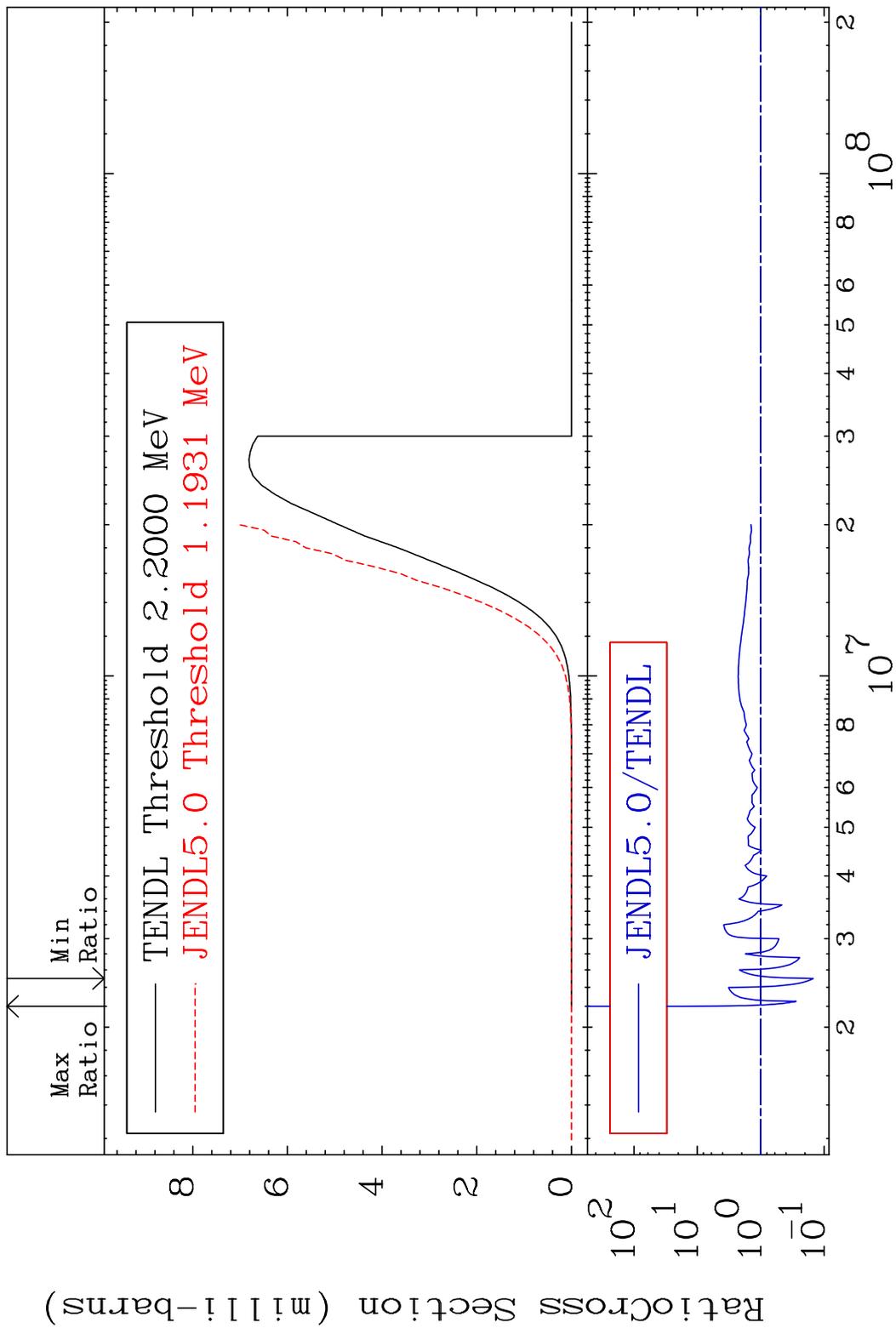
MAT 6425 (n,p):63-Eu-152g 64-Gd-152  
 Radionuclide Production Cross Section 100.0% 9999. %



69 Incident Energy (eV) 64-Gd-152

MAT 6425 (n, p) : 63-Eu-152m1 64-Gd-152  
 Radionuclide Production Cross Section Ratio 9999. %





MAT 6425 (n, t):63-Eu-150g 64-Gd-152  
 Radionuclide Production Cross Section Ratio 9999. %

