

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

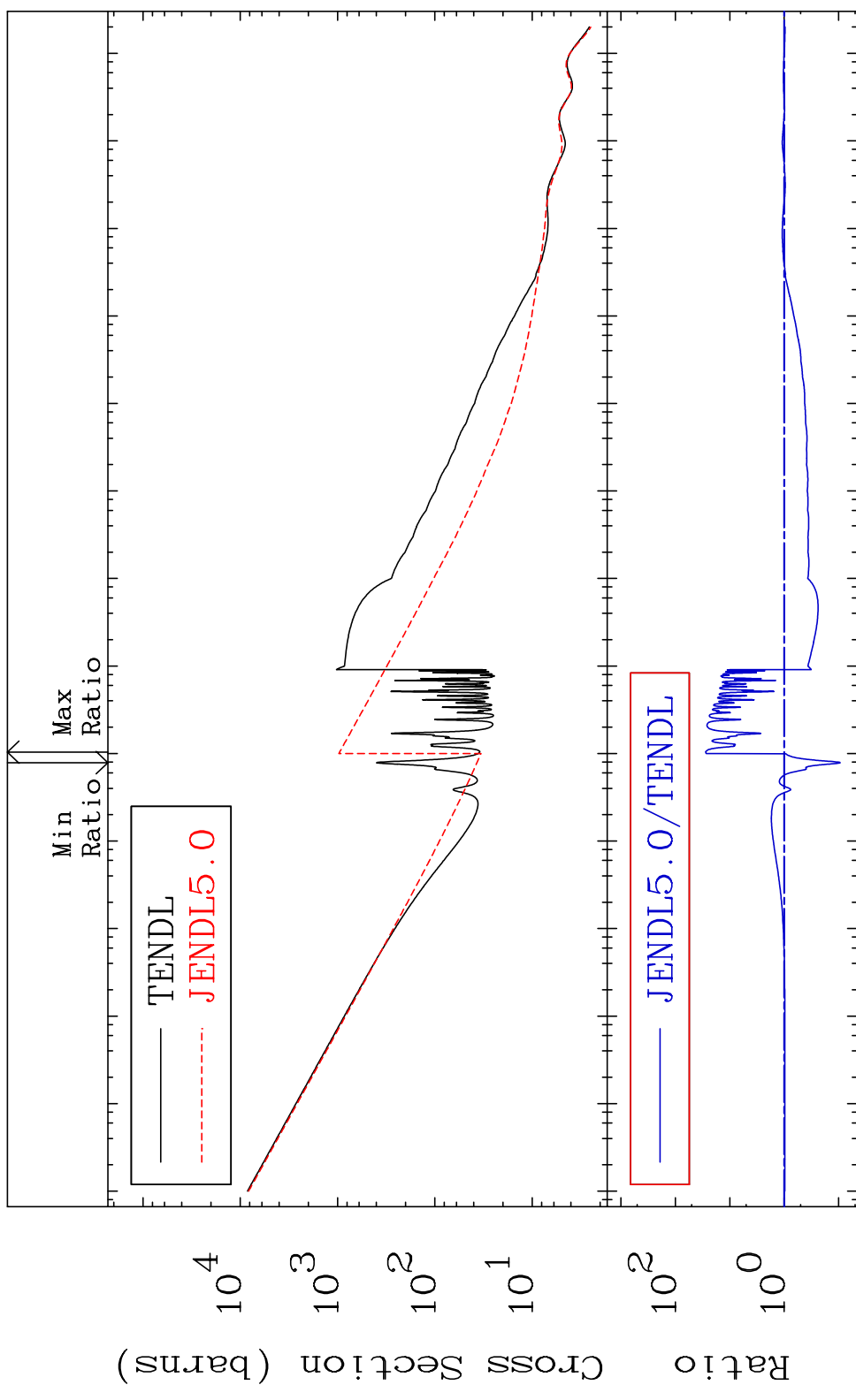
E.Mail:redcullen1@comcast.net  
Web:redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 7107

Total  
Cross Section -90.74 To 2658. %

71-Lu-169



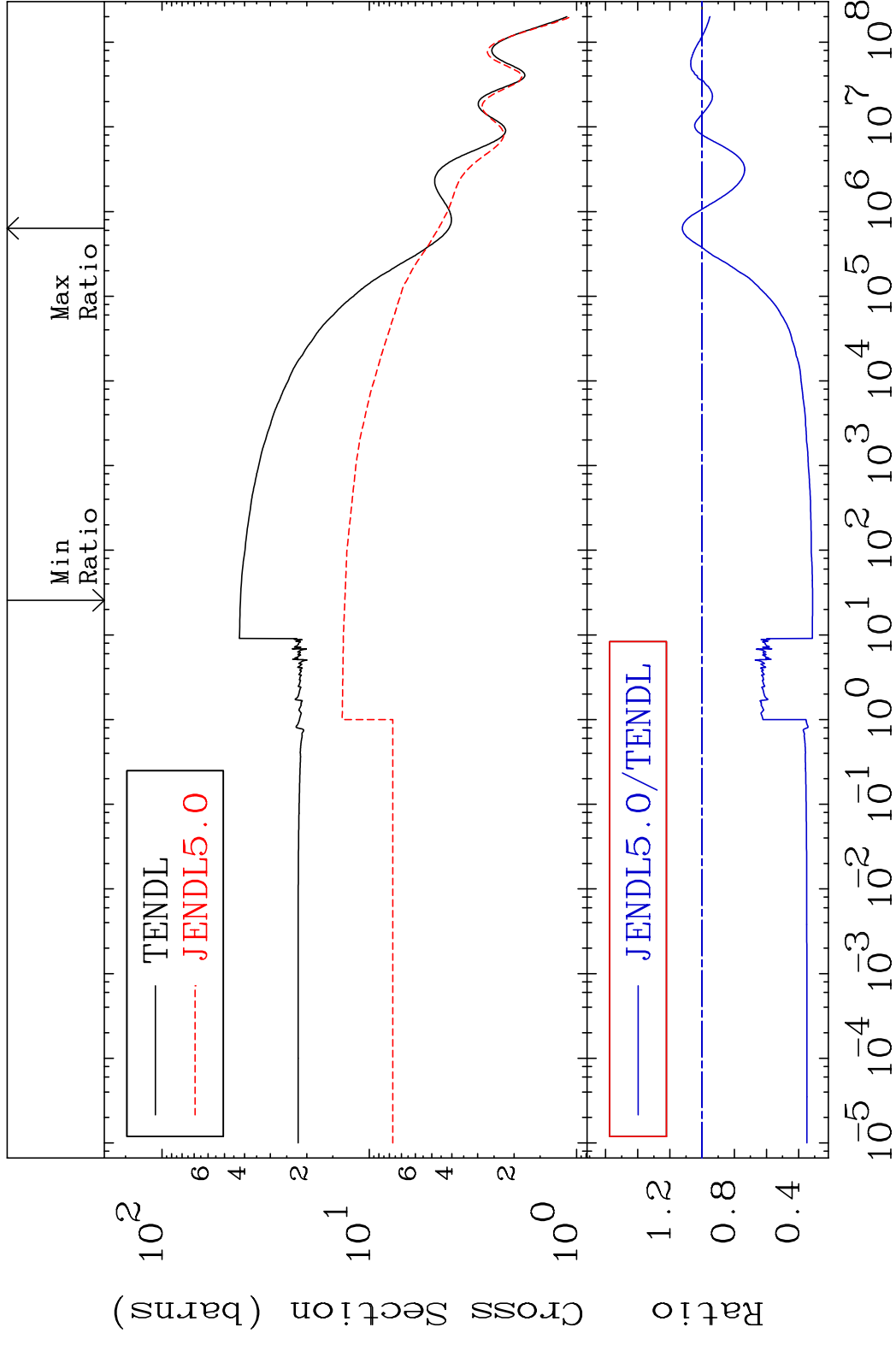
1 Incident Energy (eV) 71-Lu-169

MAT 7107

Elastic

71-Lu-169

Cross Section -68.65 To 12.27 %



2

Incident Energy (eV)

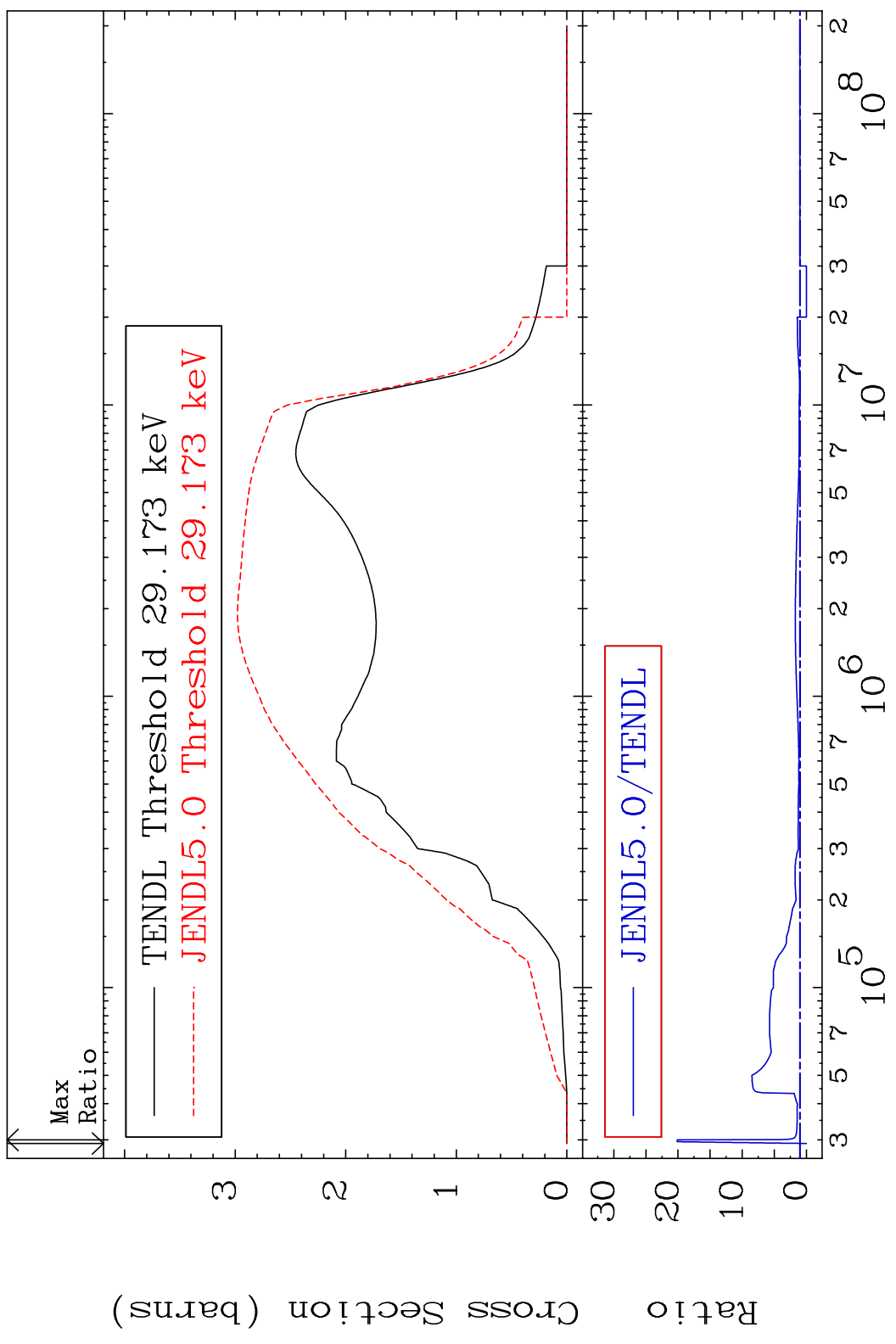
71-Lu-169

MAT 7107

Inelastic

71-Lu-169

Cross Section -100.0 To 1913. %



3

Incident Energy (eV)

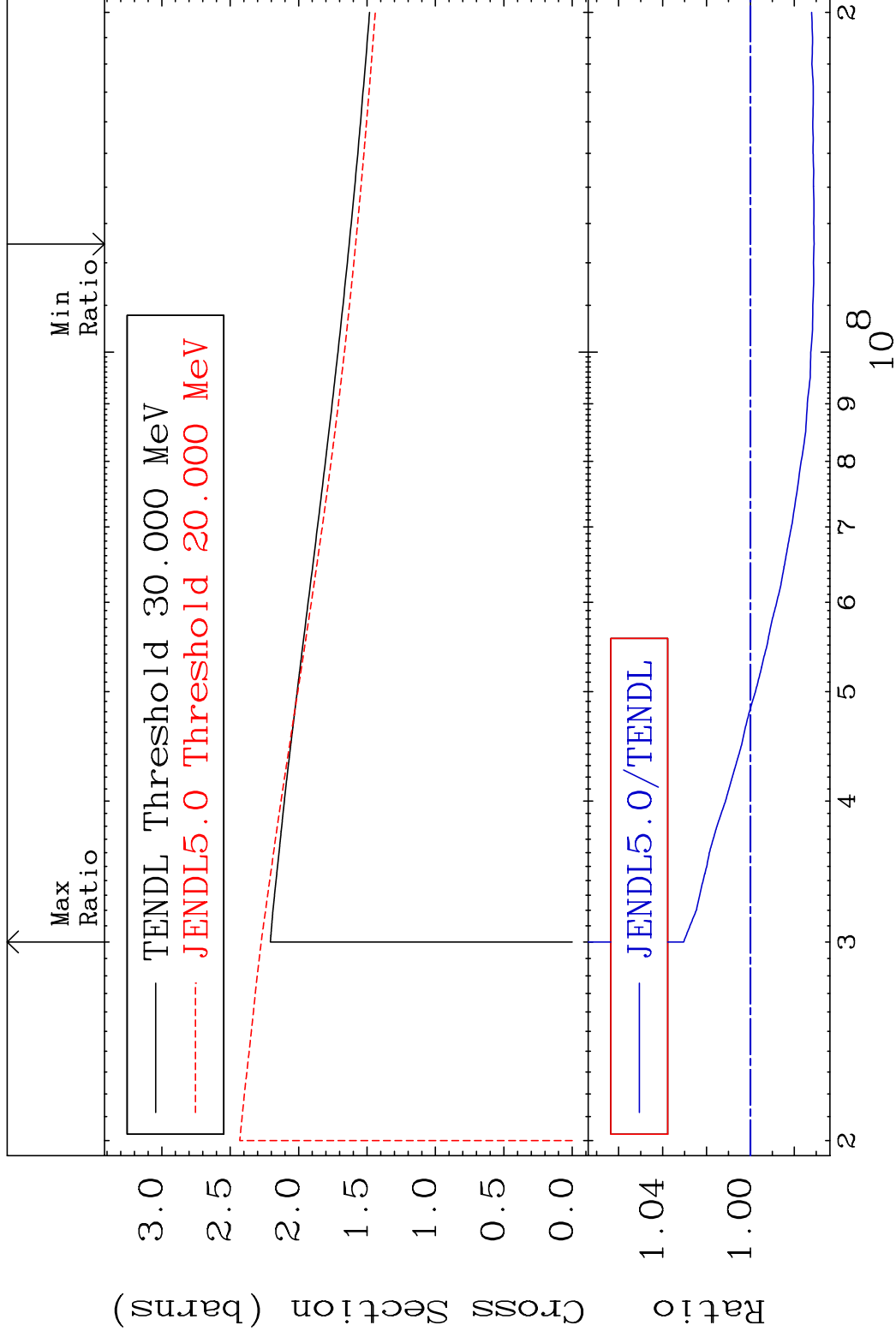
71-Lu-169

MAT 7107

(n, remainder)

71-Lu-169

Cross Section -2.900 To 3.040 %



4

Incident Energy (eV)

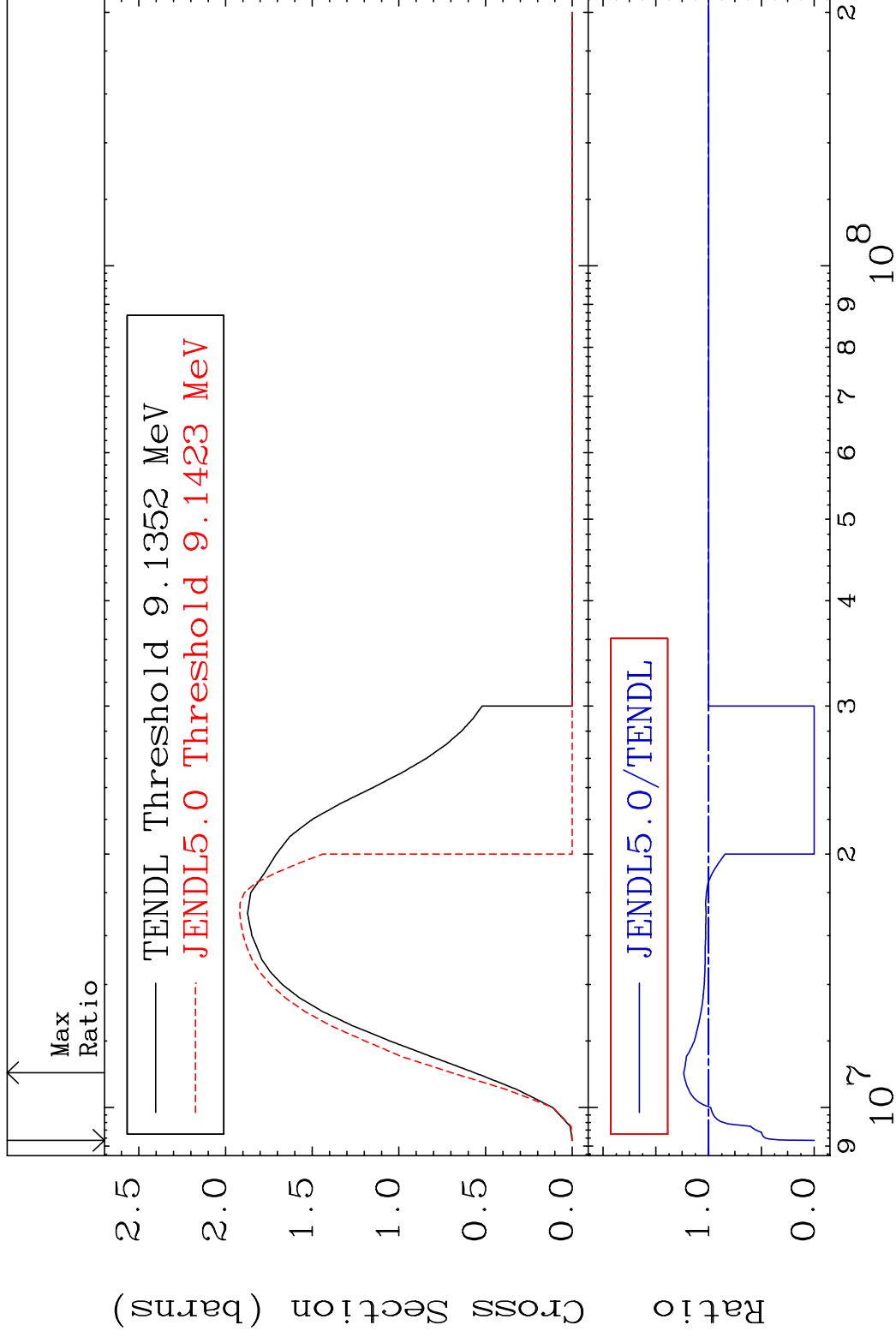
71-Lu-169

MAT 7107

(n,2n)

71-Lu-169

Cross Section -100.0 To 23.59 %



5

Incident Energy (eV)

71-Lu-169

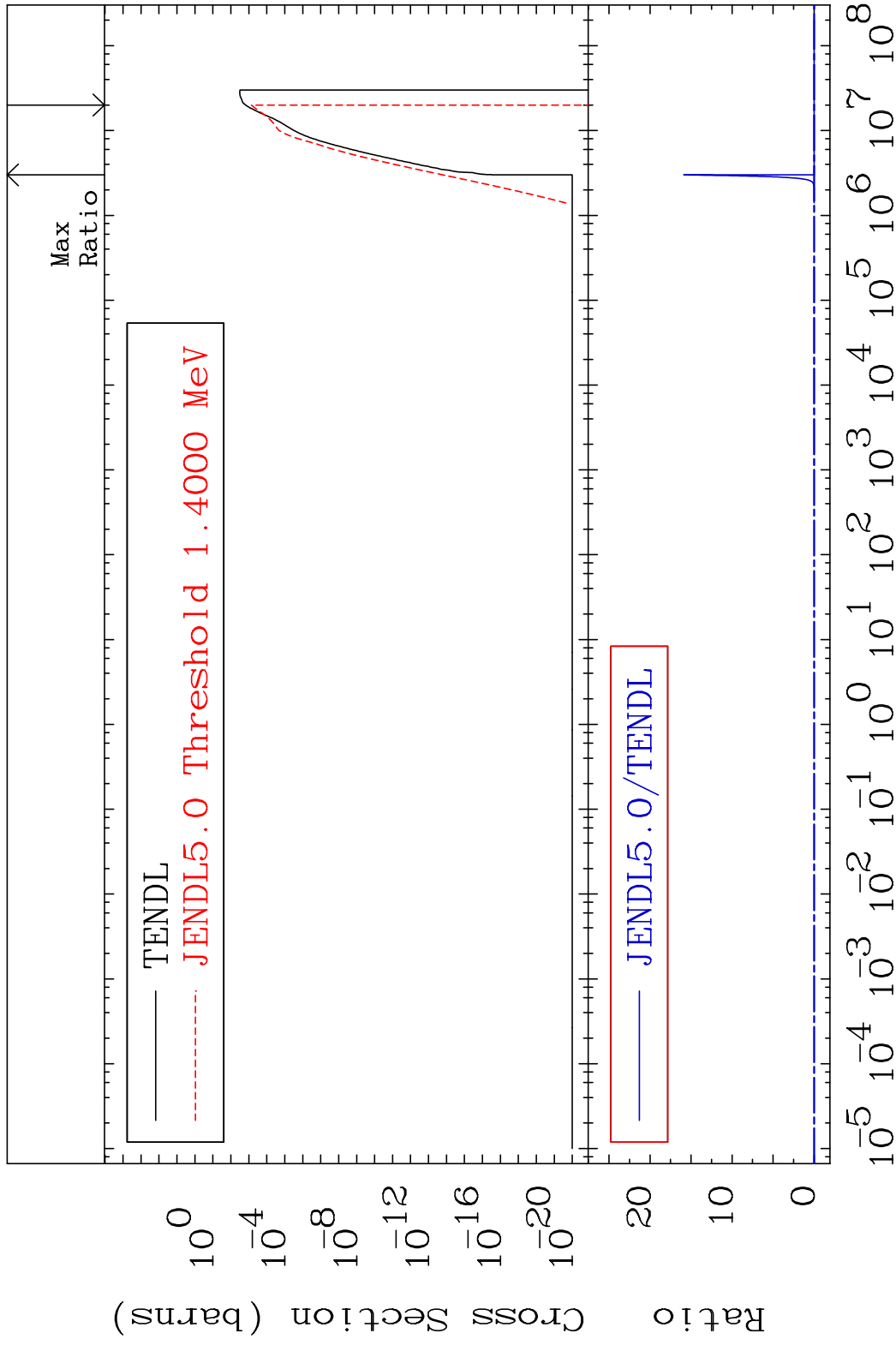


MAT 7107

(n, n')  $\alpha$

71-Lu-169

Cross Section -100.0 To 9999. %



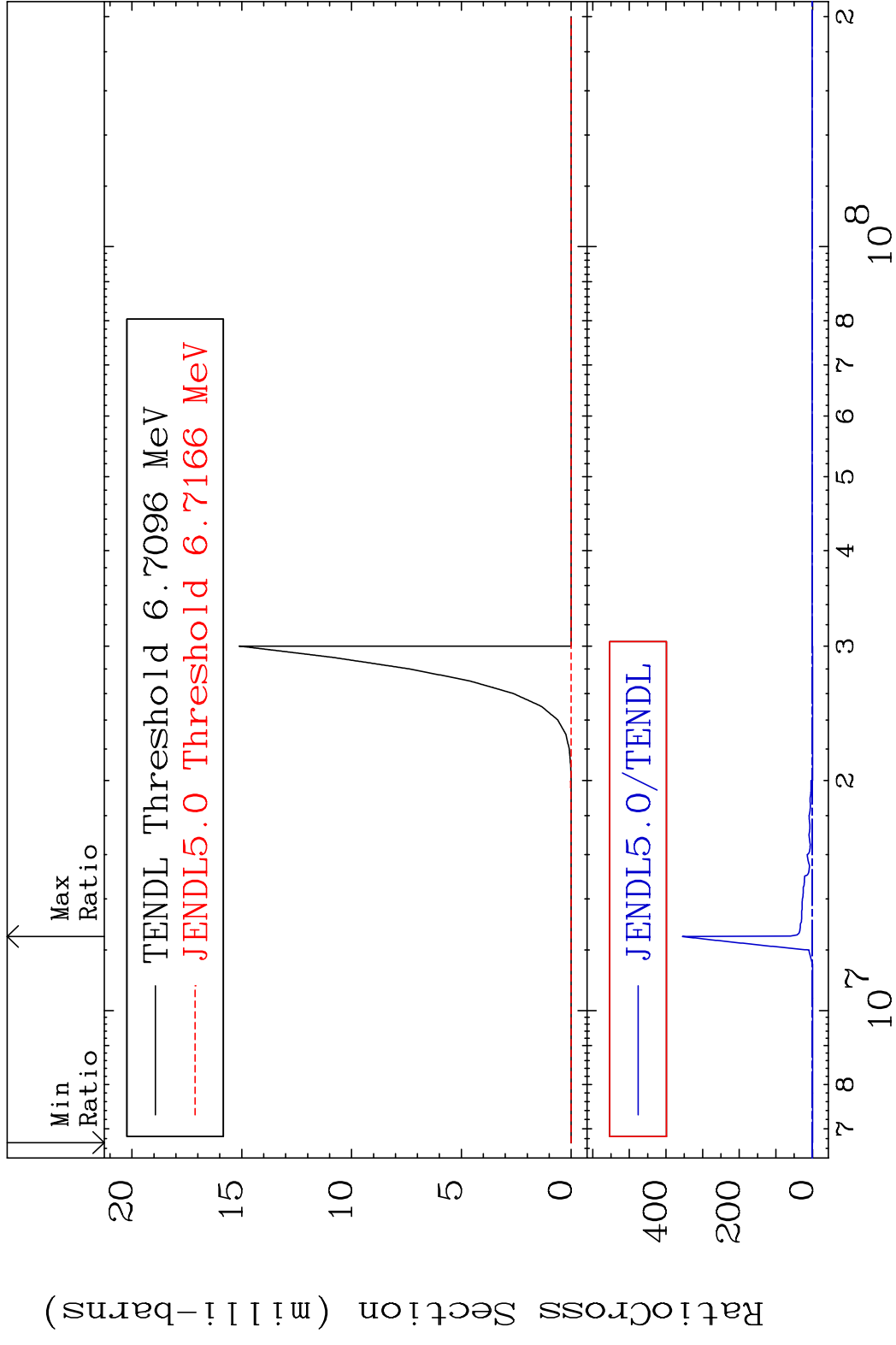
7

Incident Energy (eV)

71-Lu-169



MAT 7107 (n,2n)  $\alpha$  71-Lu-169  
 Cross Section -100.0 To 9999. %

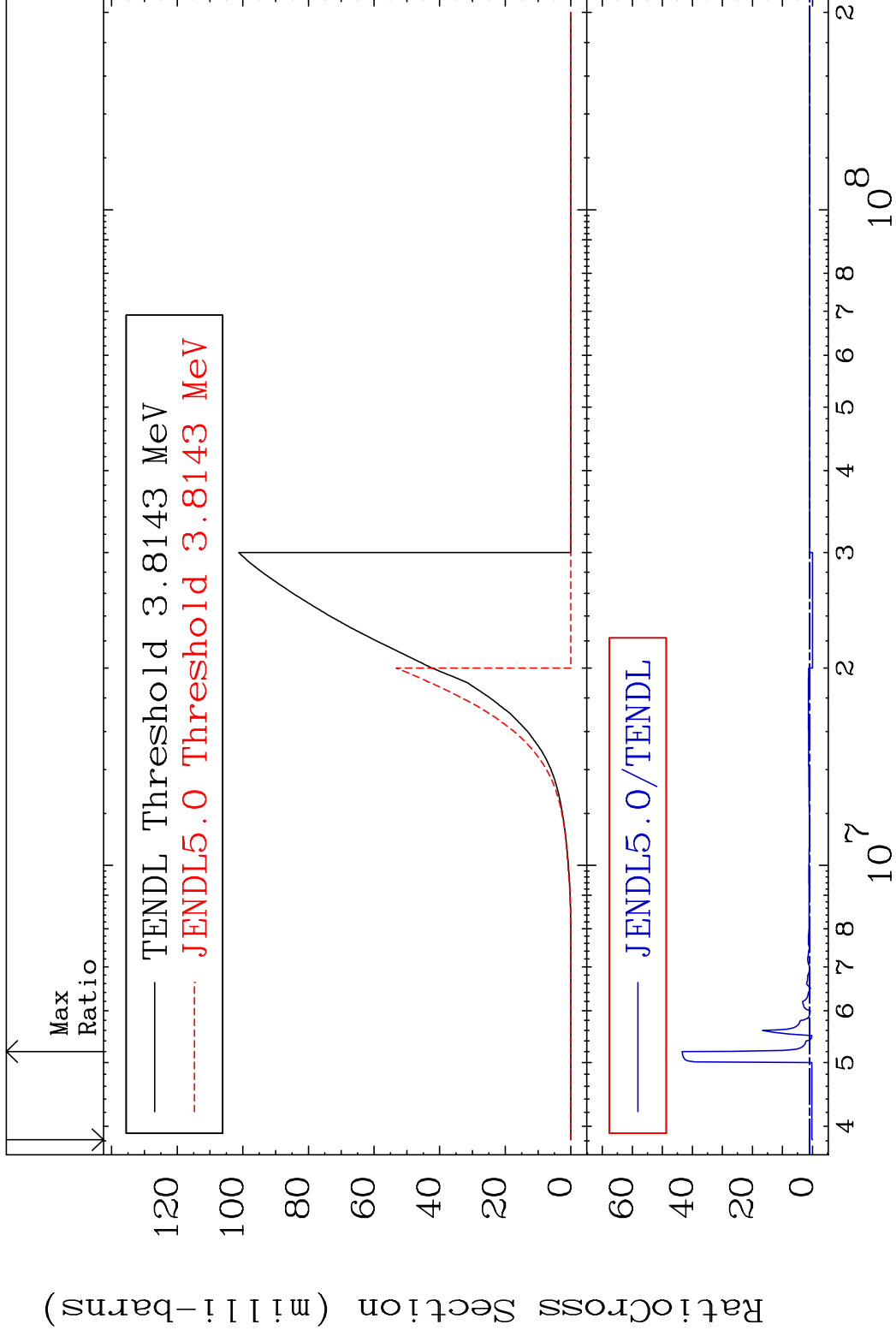


MAT 7107

(n, n') p

71-Lu-169

Cross Section -100.0 To 4243. %

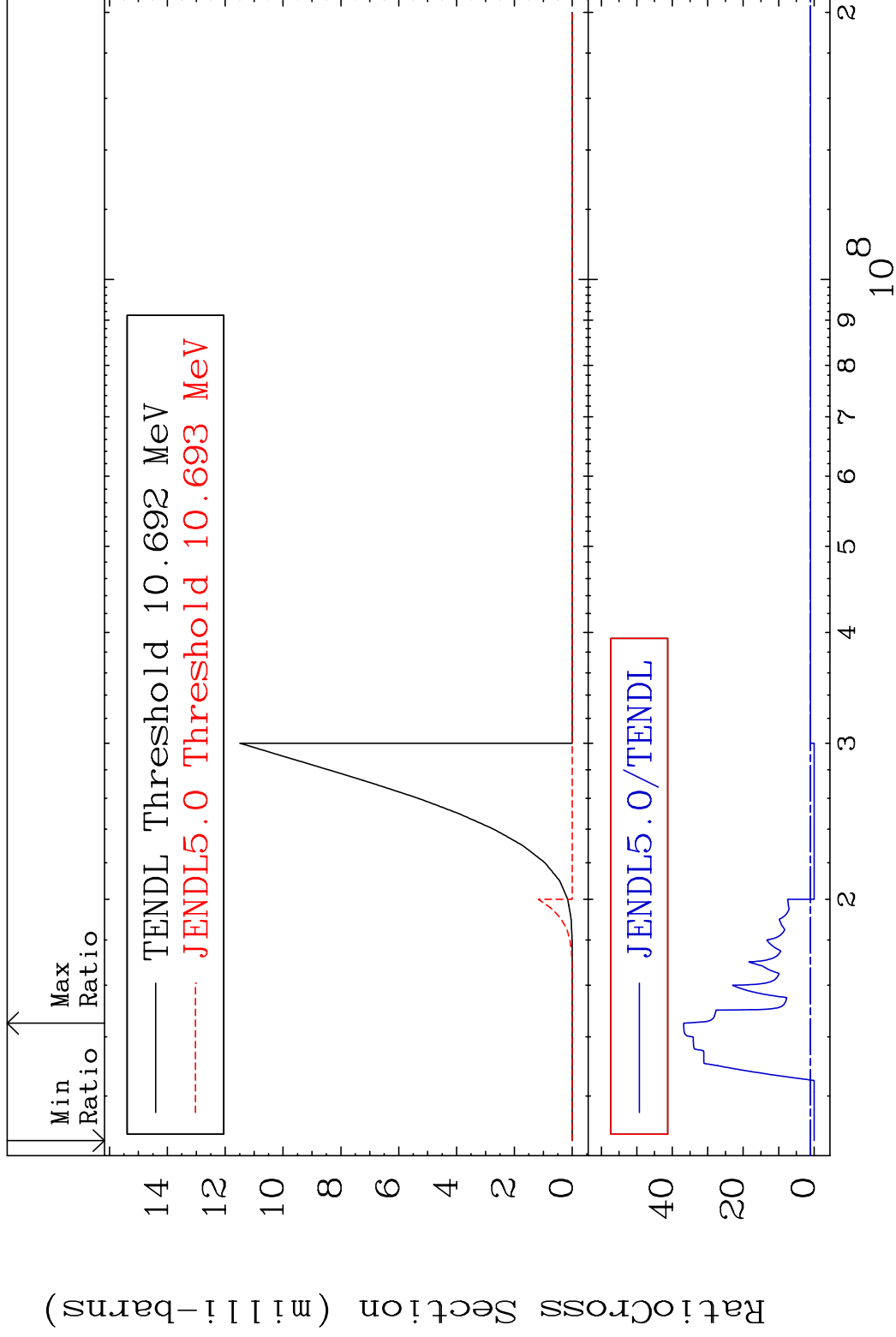


MAT 7107

(n, n') d

71-Lu-169

Cross Section -100.0 To 3579. %



10

Incident Energy (eV)

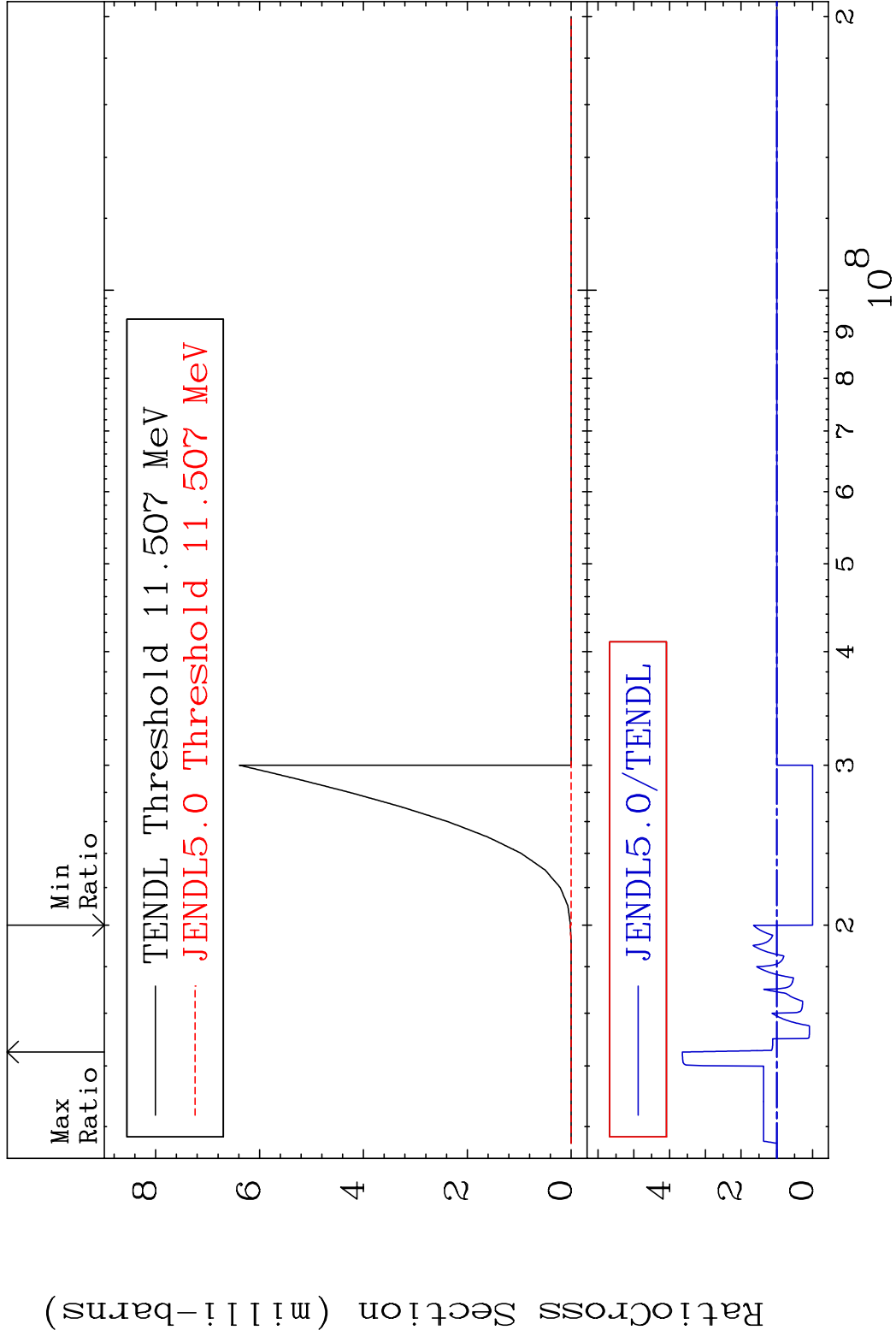
71-Lu-169

MAT 7107

(n, n') t

71-Lu-169

Cross Section -100.0 To 264.3 %

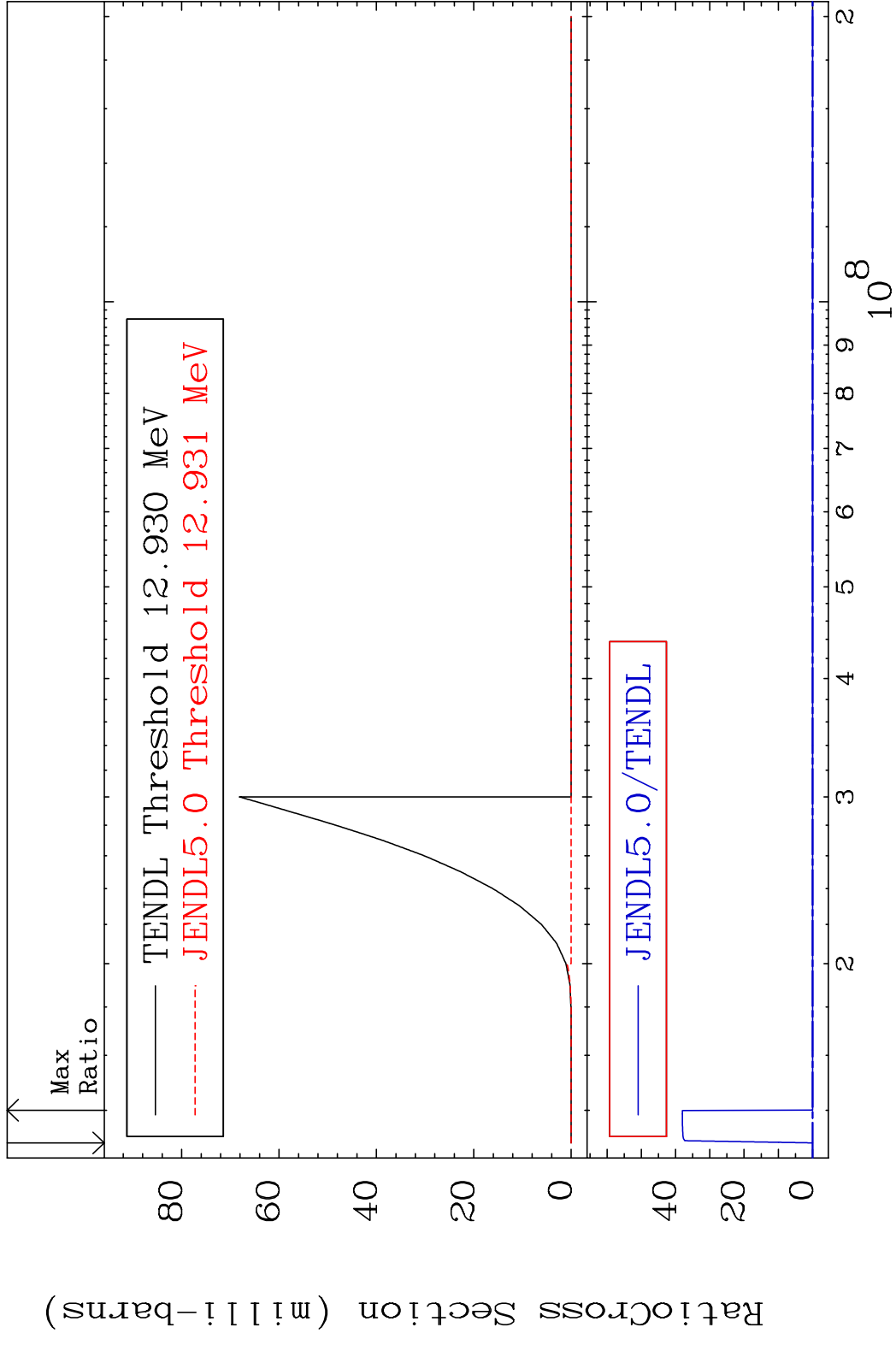


MAT 7107

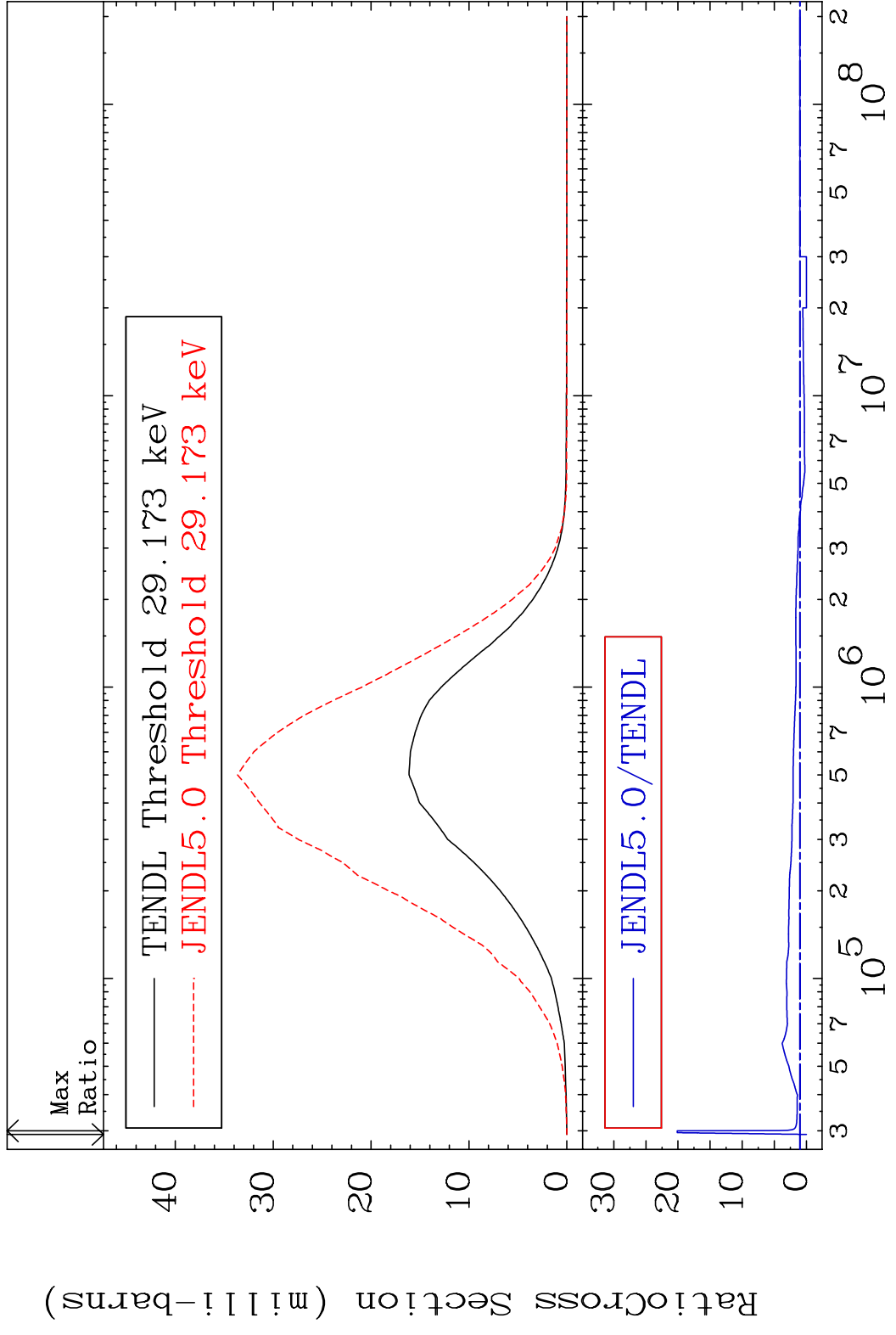
(n,2n) p

71-Lu-169

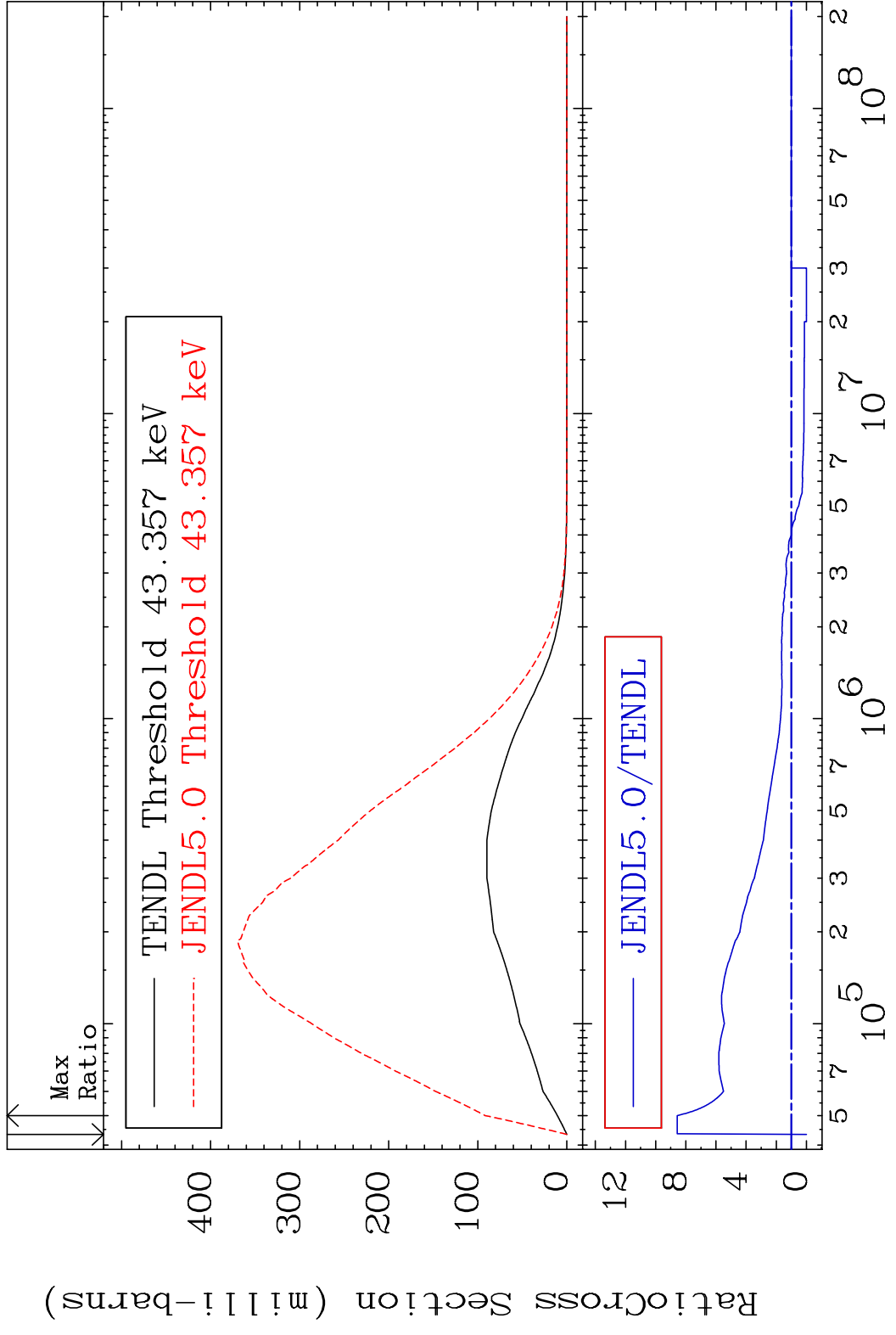
Cross Section -100.0 To 9999. %



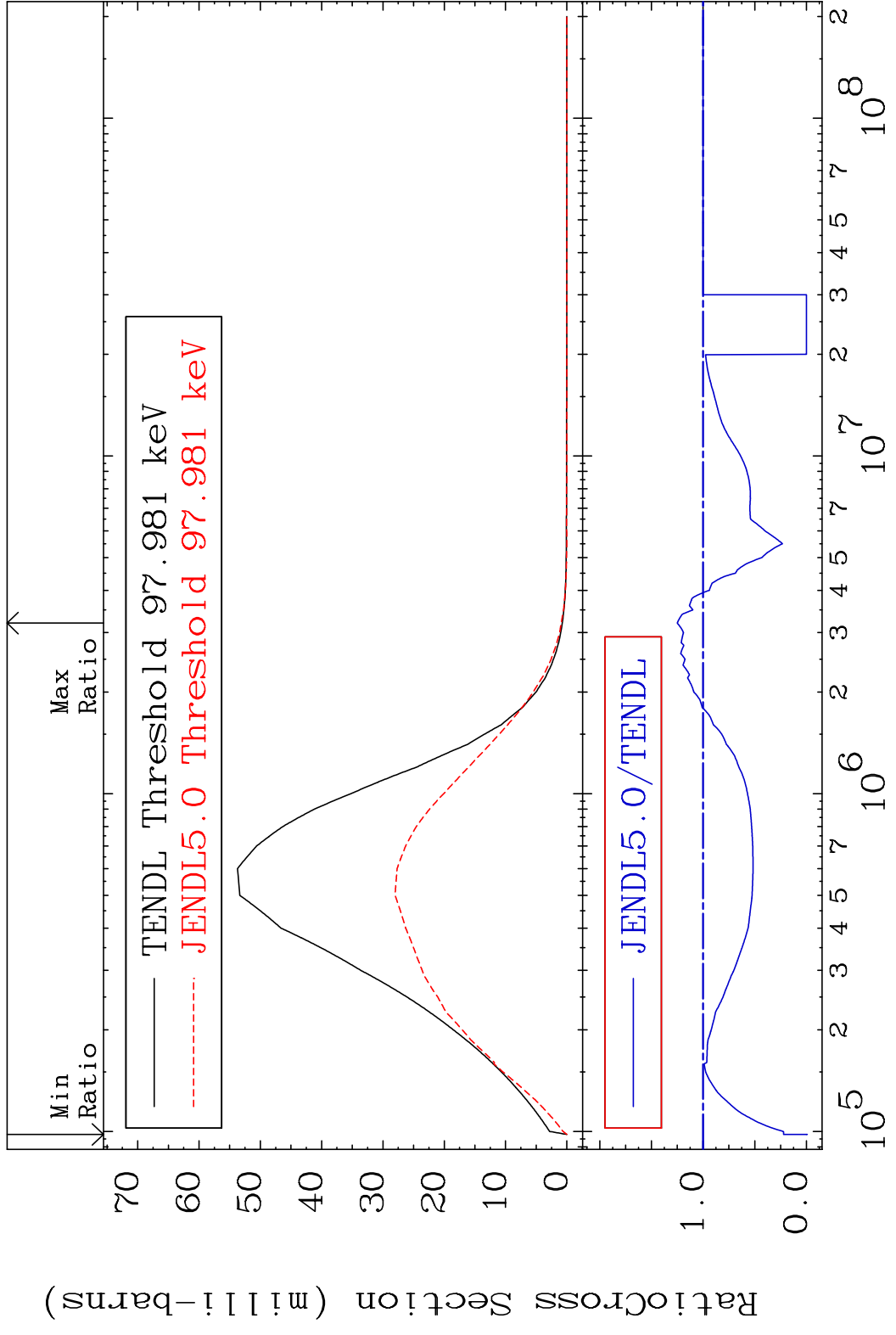
MAT 7107 MT= 51 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 1913. %



MAT 7107 MT= 52 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 757.4 %



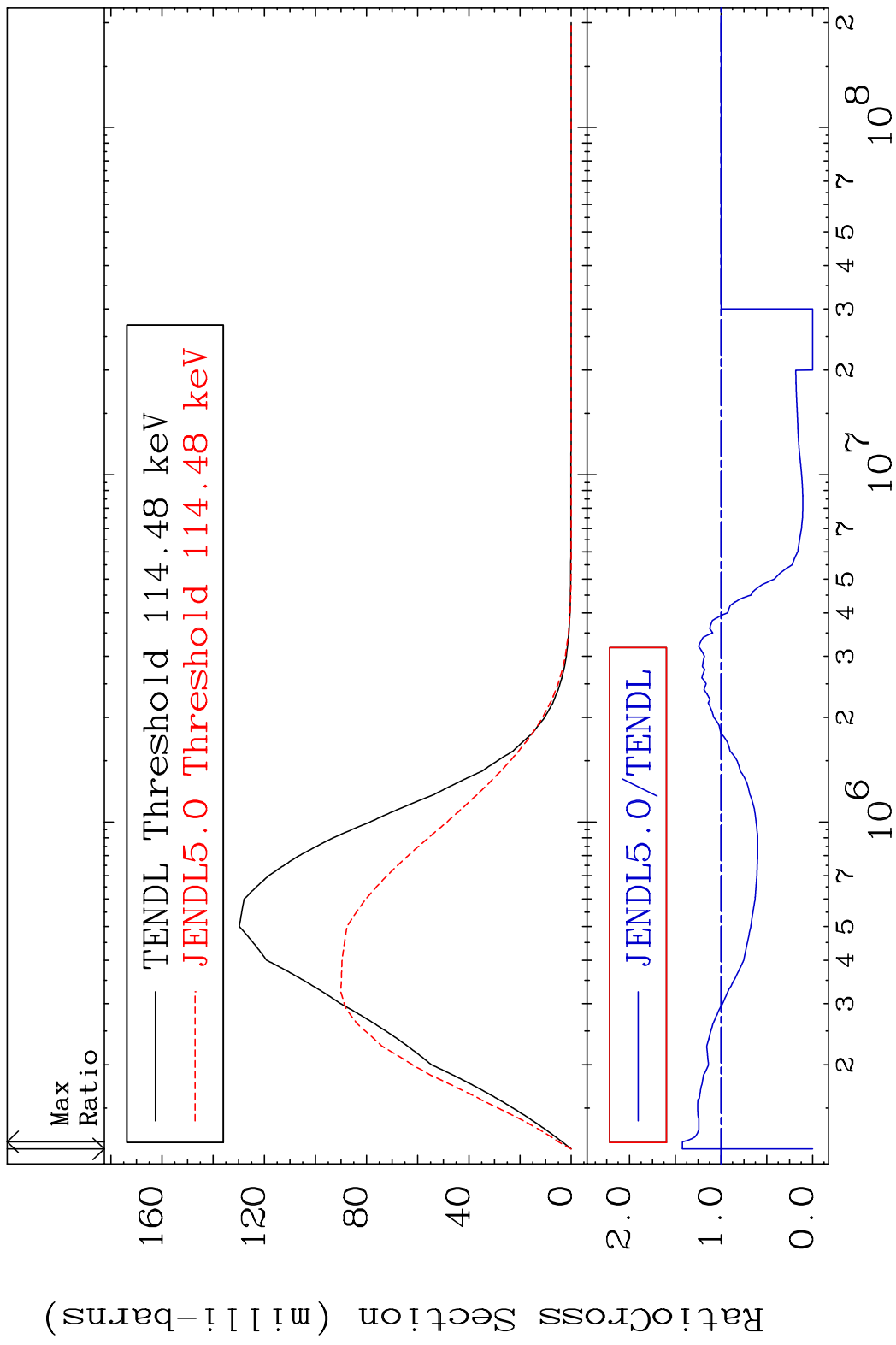
MAT 7107 MT= 53 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 25.06 %



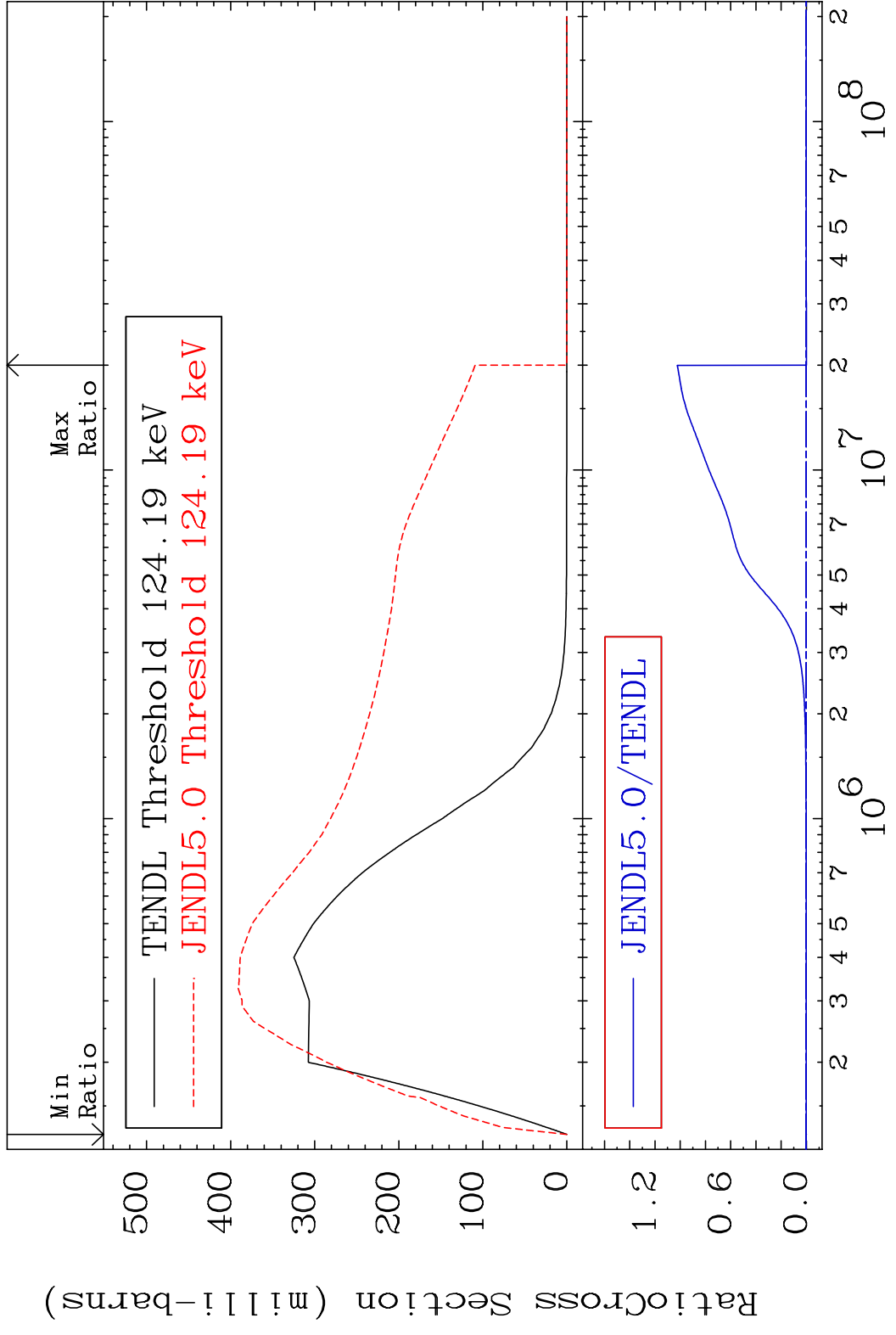
15 Incident Energy (eV) 71-Lu-169



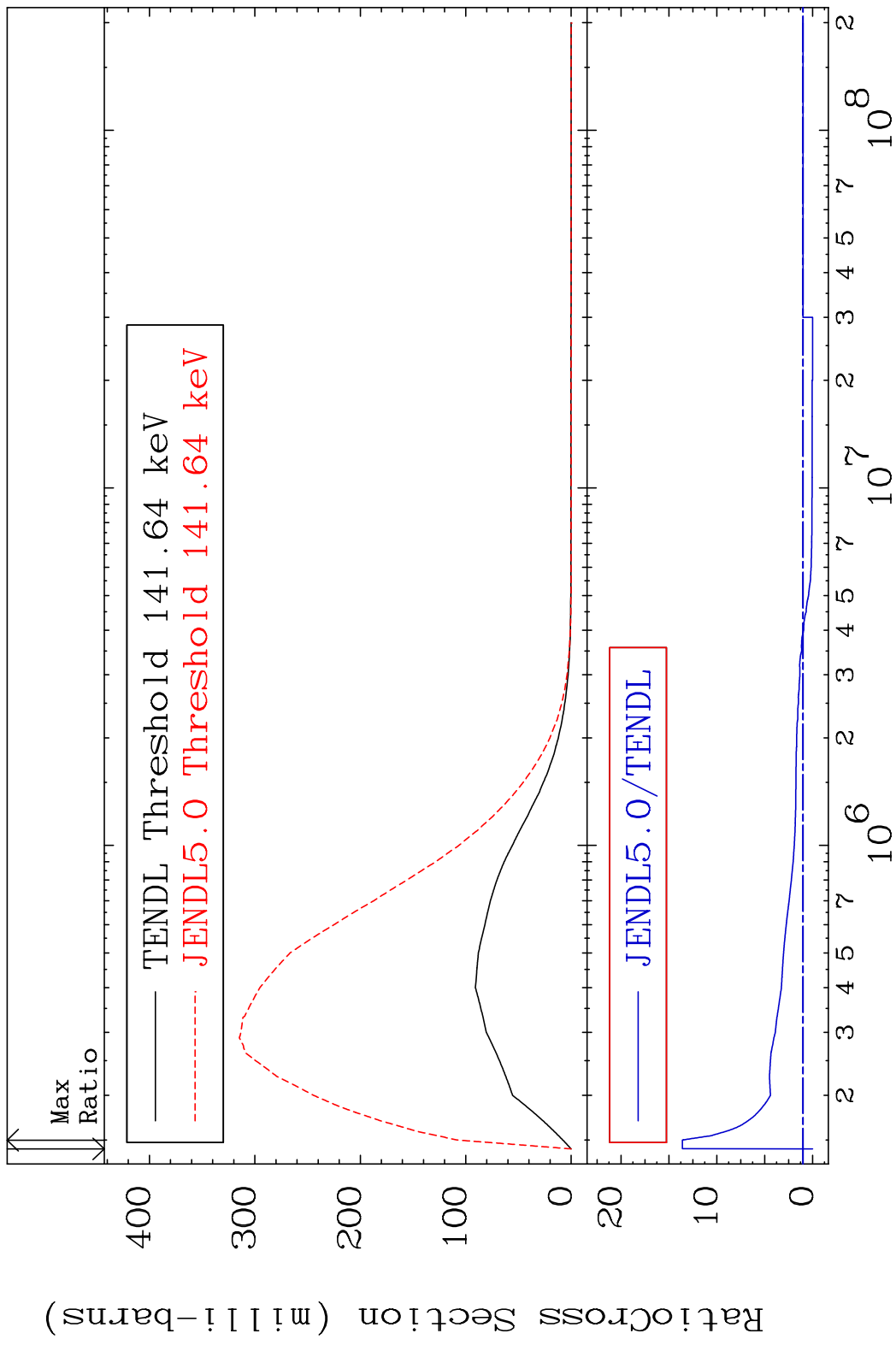
MAT 7107 MT= 54 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 42.31 %



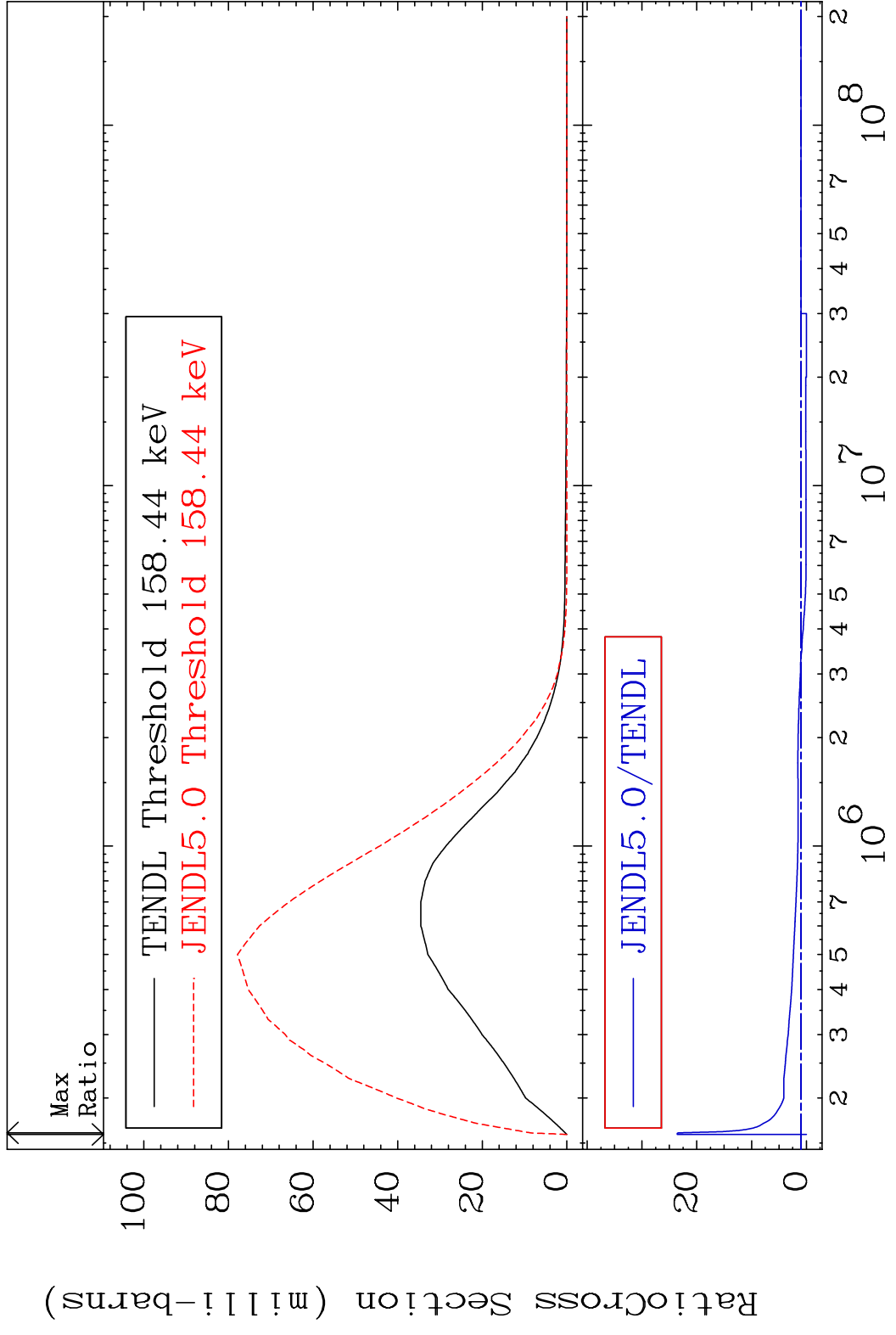
MAT 7107 MT= 55 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 9999. %



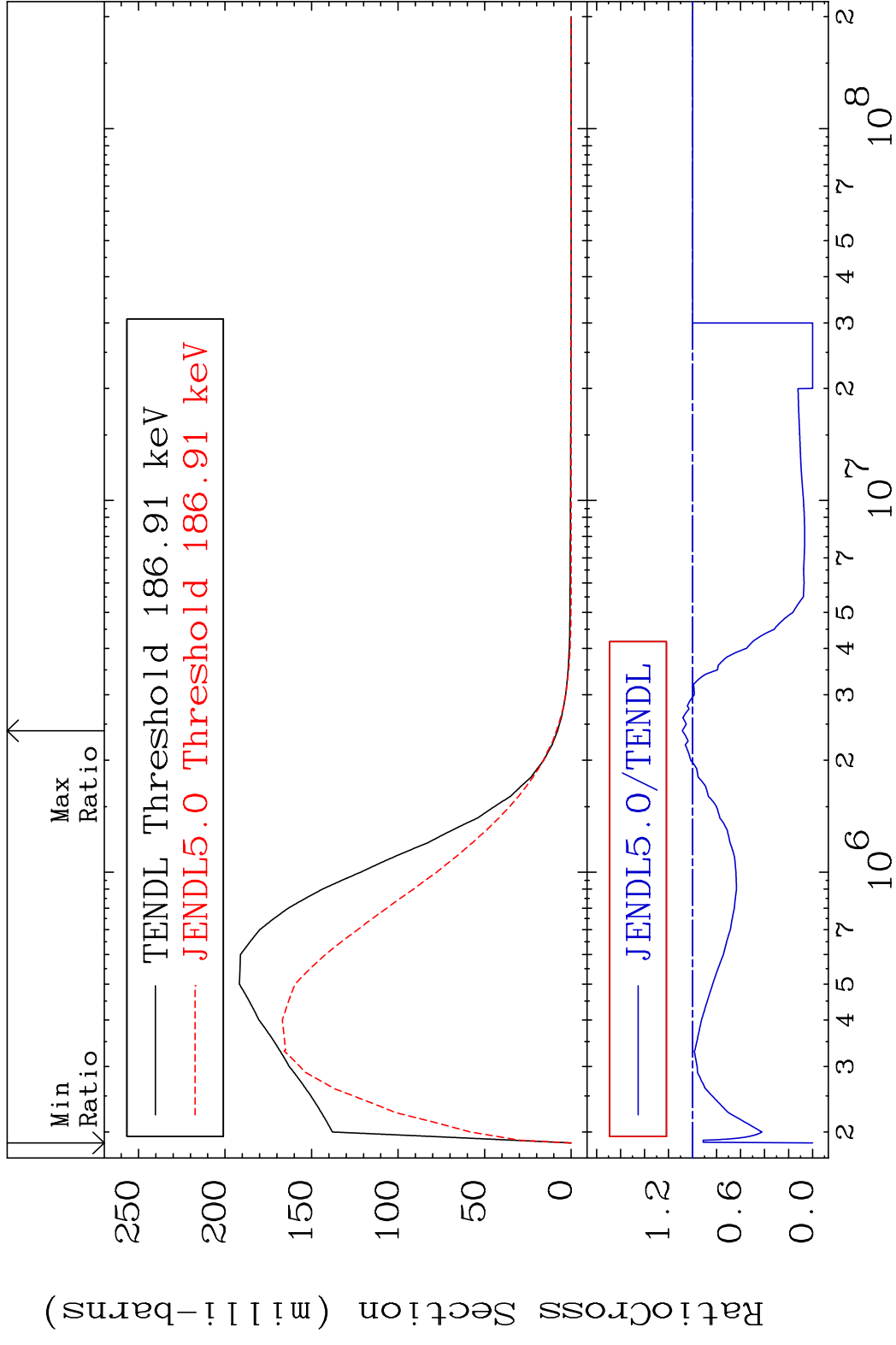
MAT 7107 MT= 56 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 1259. %



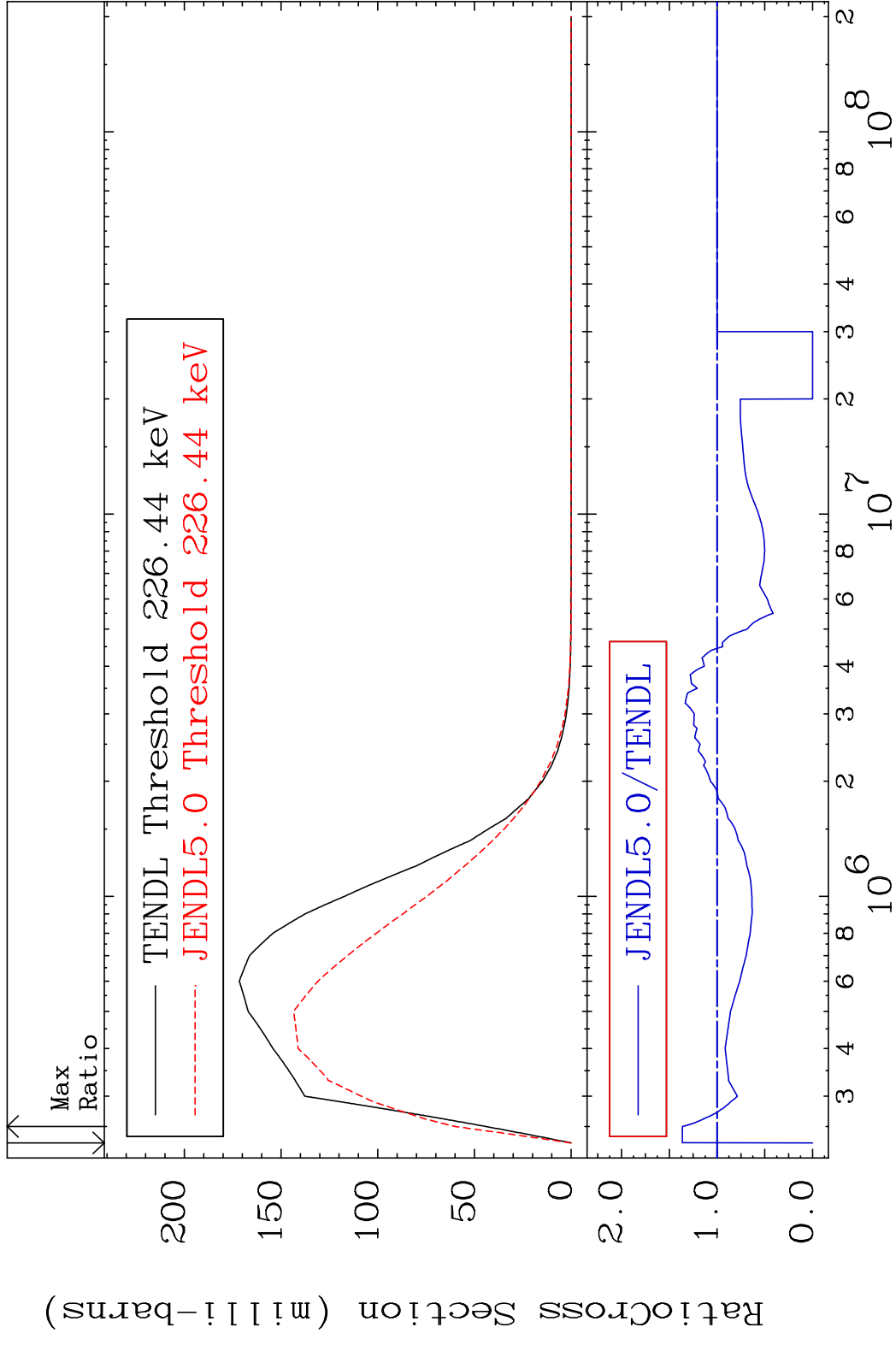
MAT 7107 MT= 57 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 2257. %



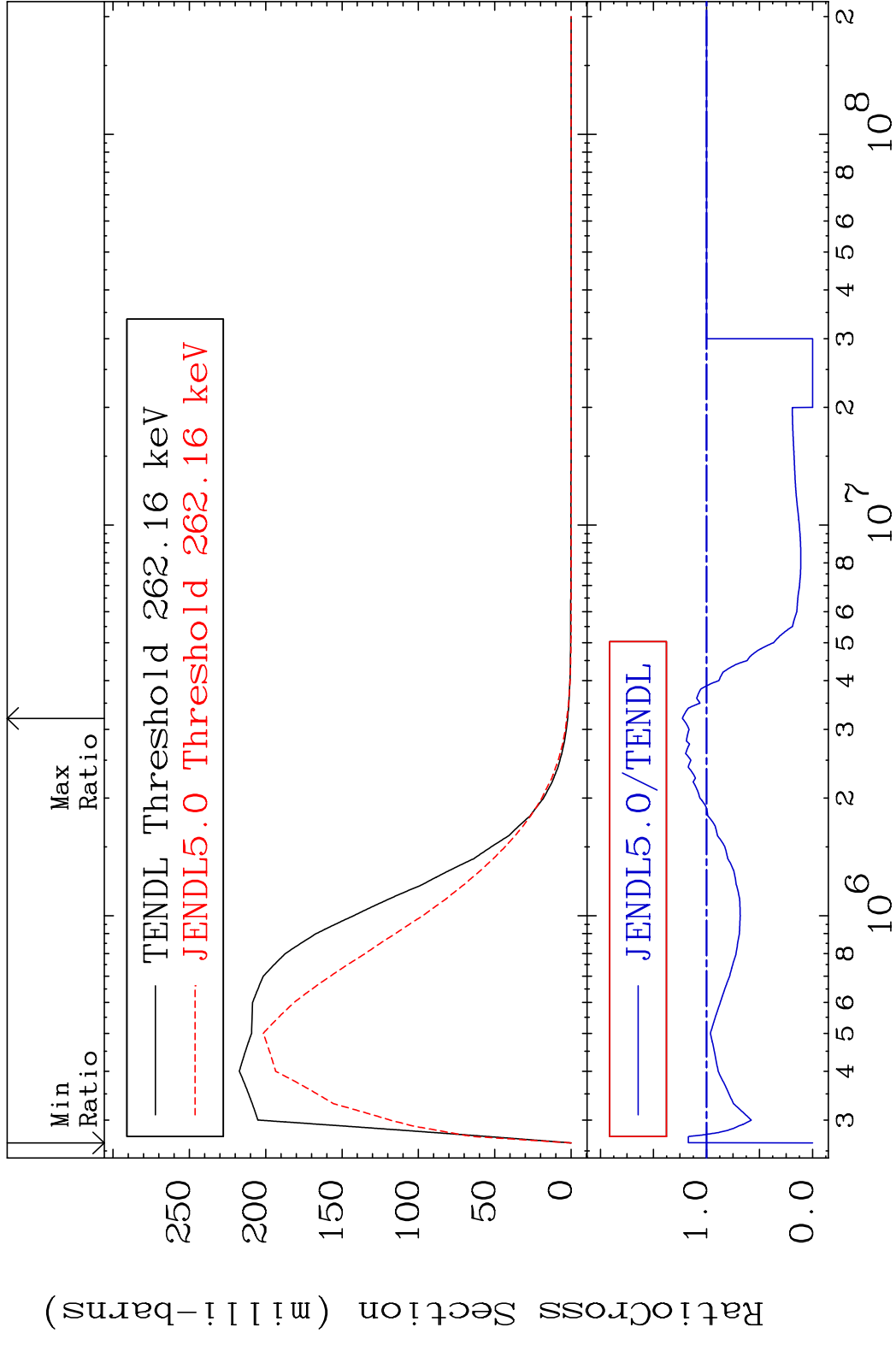
MAT 7107 MT= 58 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 8.499 %



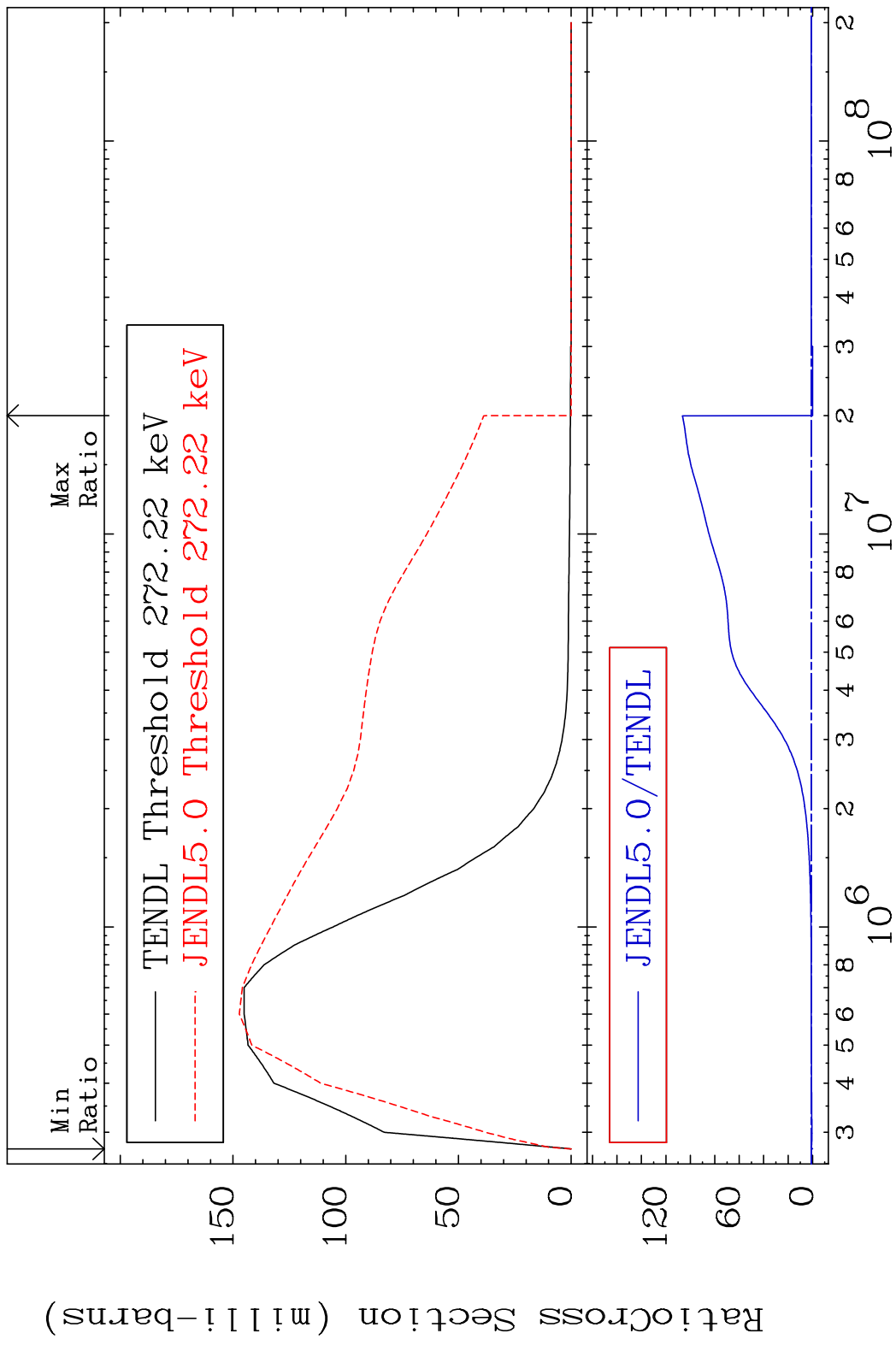
MAT 7107 MT= 59 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 36.35 %



MAT 7107 MT= 60 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 22.75 %

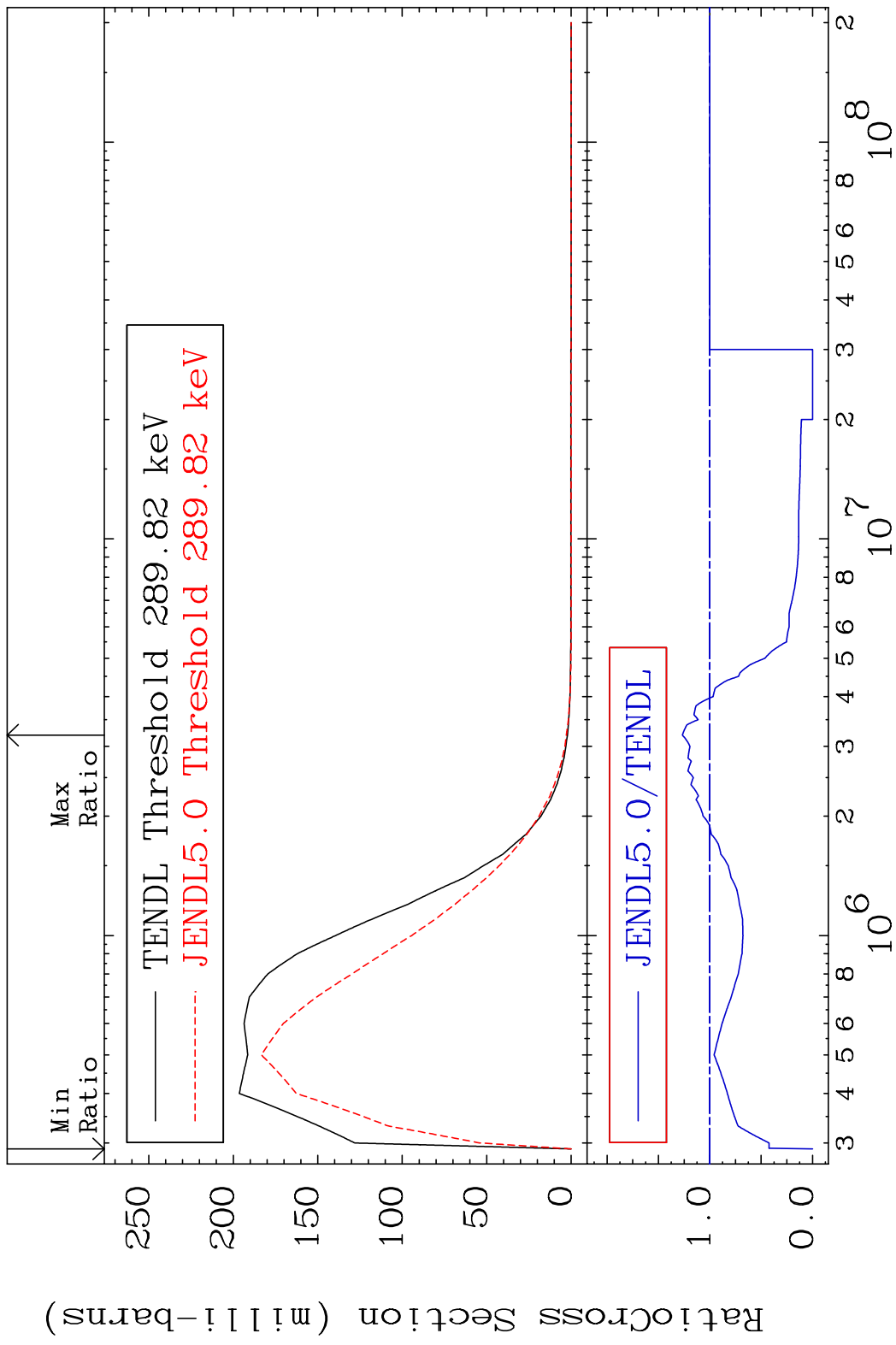


MAT 7107 MT= 61 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 9999. %

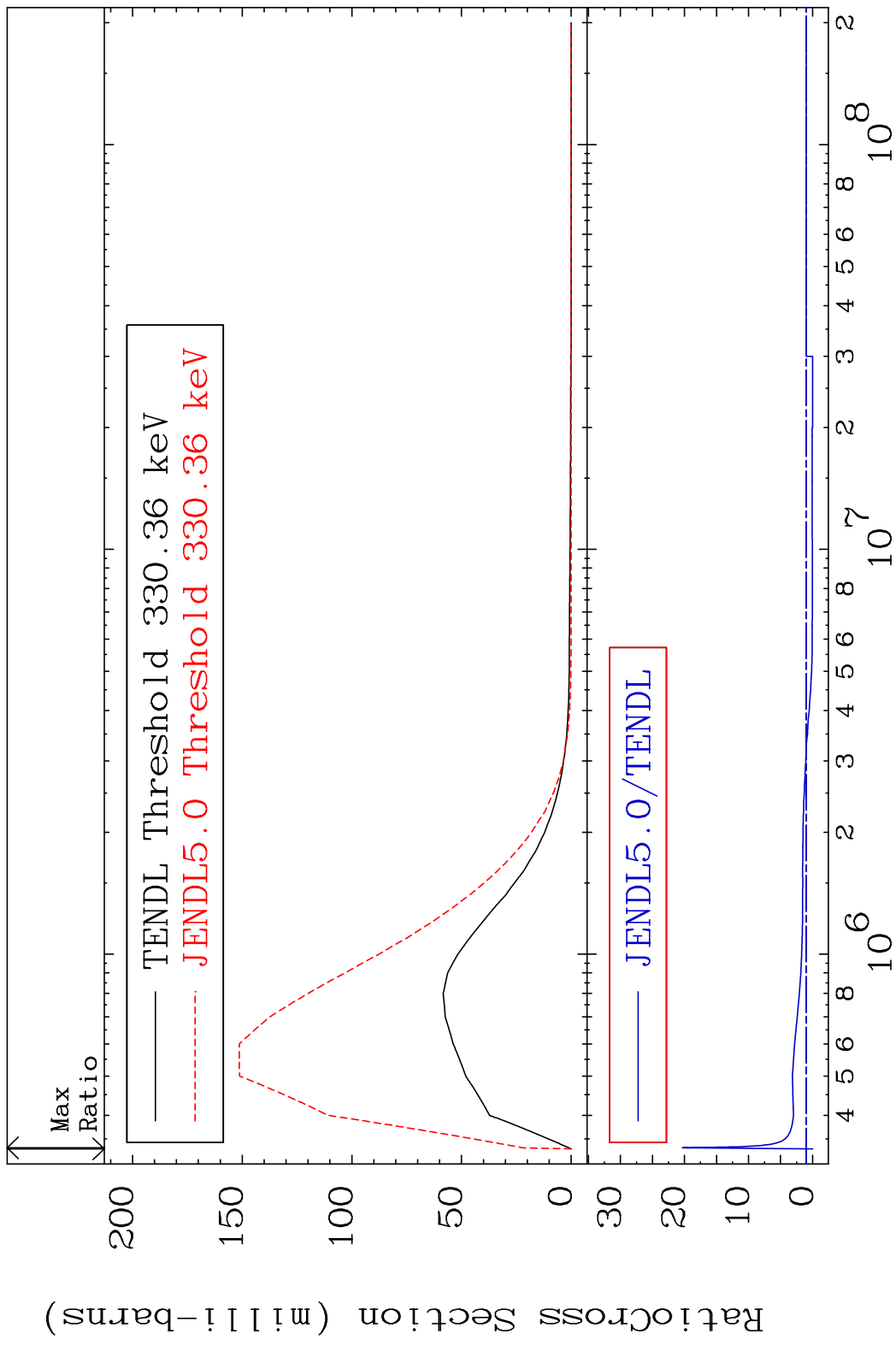




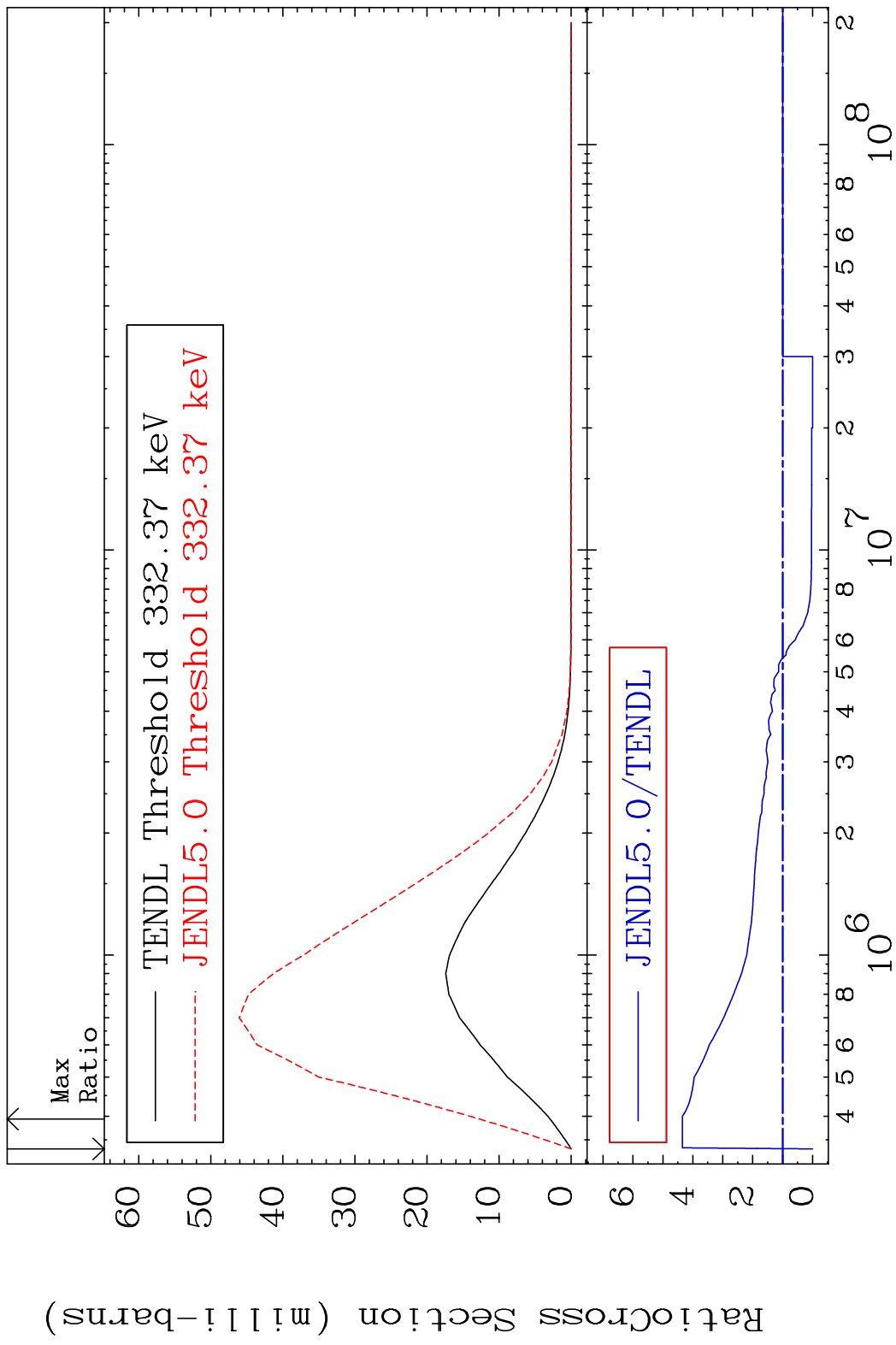
MAT 7107 MT= 62 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 26.70 %



MAT 7107 MT= 63 (n,n') Level 71-Lu-169  
 Cross Section -100.0 To 1933. %

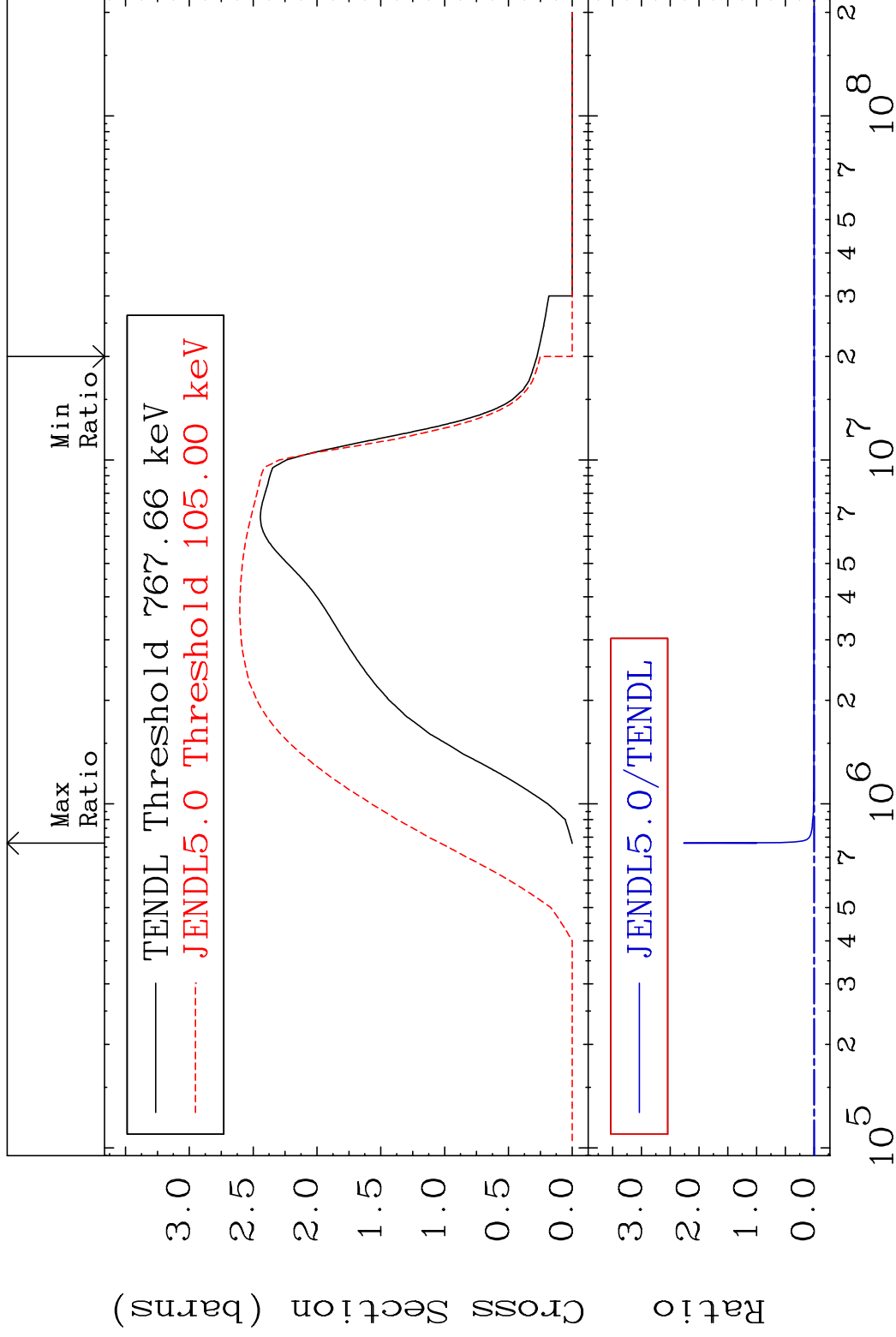


MAT 7107 MT= 64 (n, n') Level 71-Lu-169  
 Cross Section -100.0 To 335.1 %



MAT 7107

(n, n') Continuum 71-Lu-169  
Cross Section -100.0 To 9999. %



27

Incident Energy (eV)

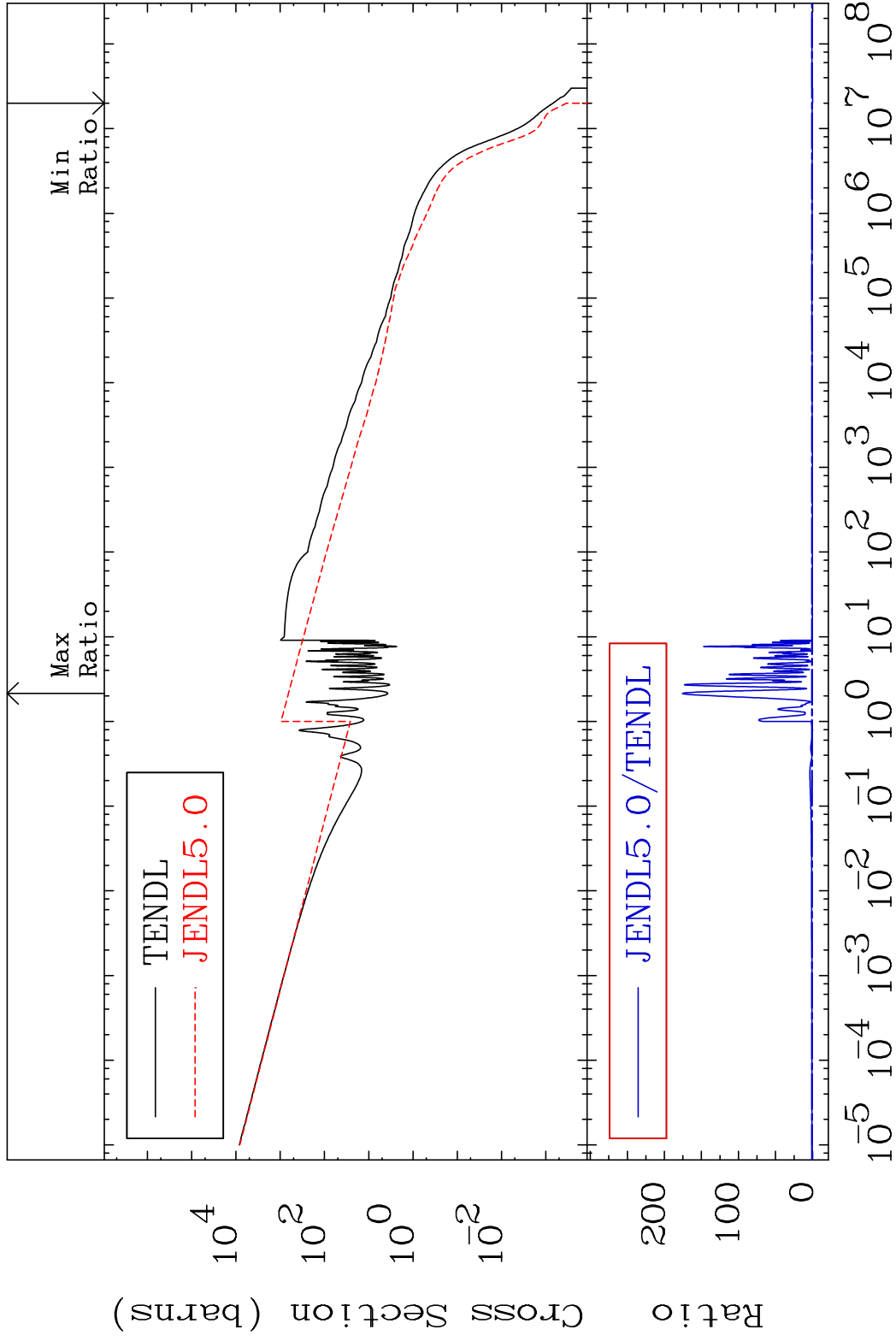
71-Lu-169

MAT 7107

(n,  $\gamma$ )

71-Lu-169

Cross Section -100.0 To 9999. %



28

Incident Energy (eV)

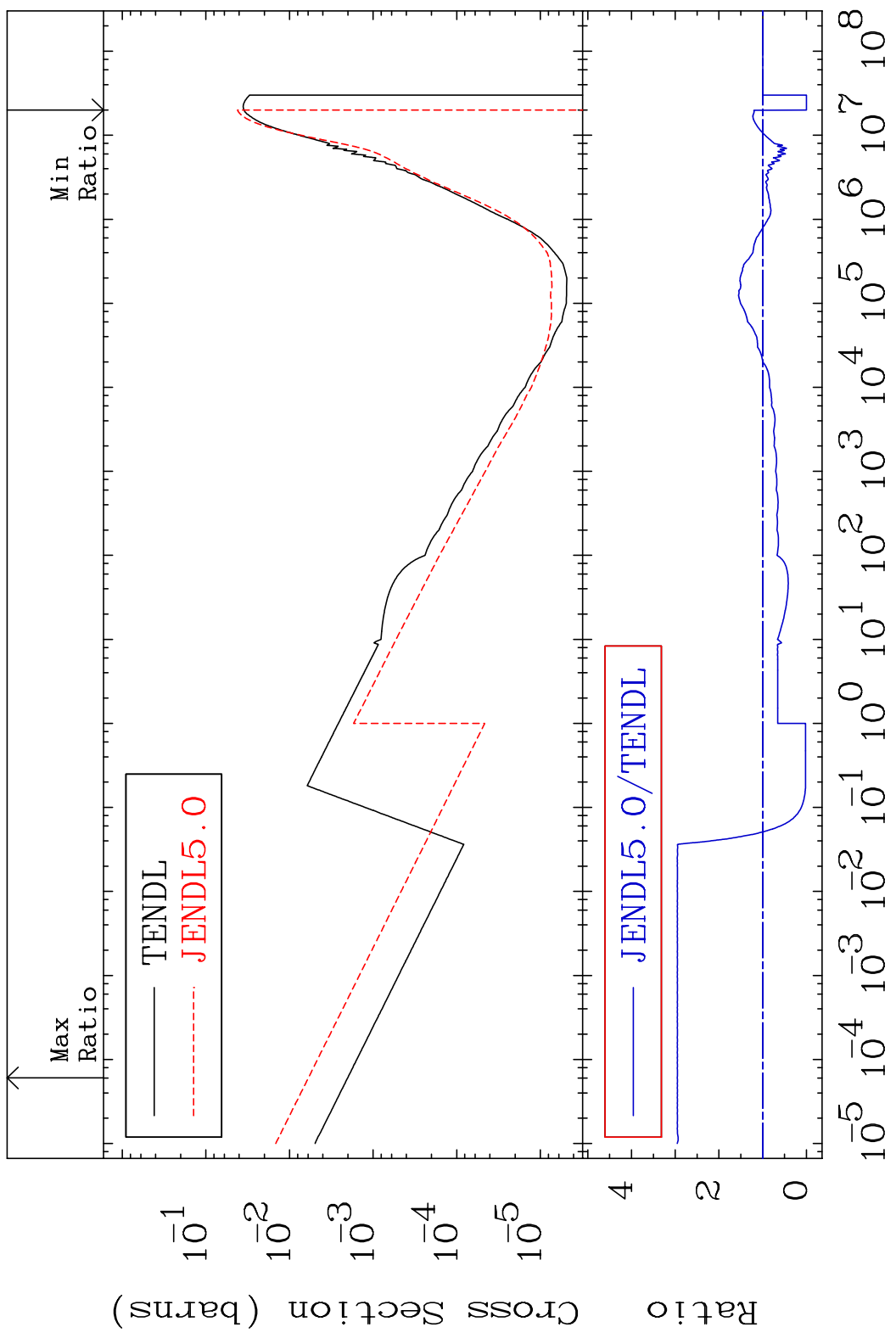
71-Lu-169

MAT 7107

(n, p)

71-Lu-169

Cross Section -100.0 To 195.5 %

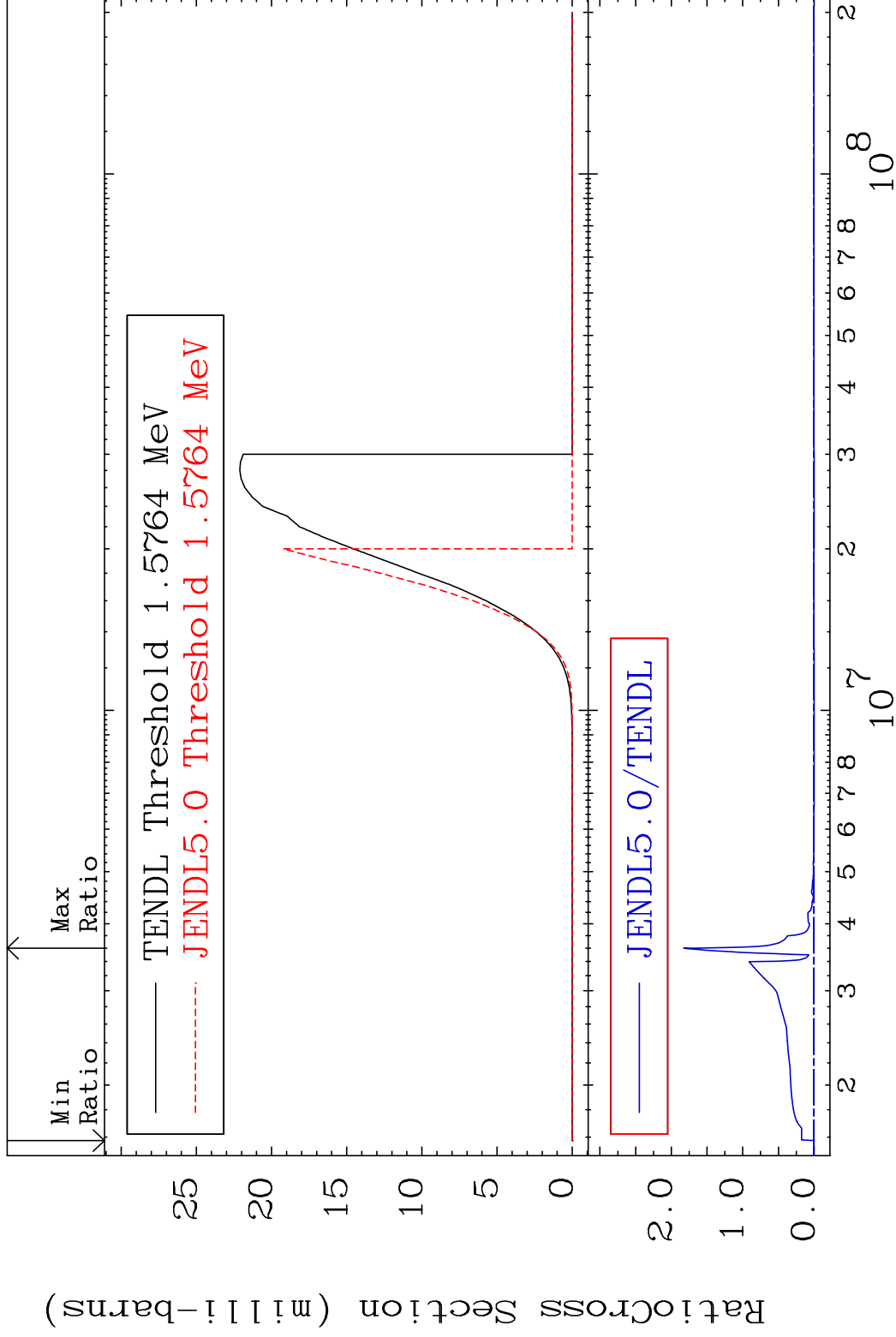


MAT 7107

(n,d)

71-Lu-169

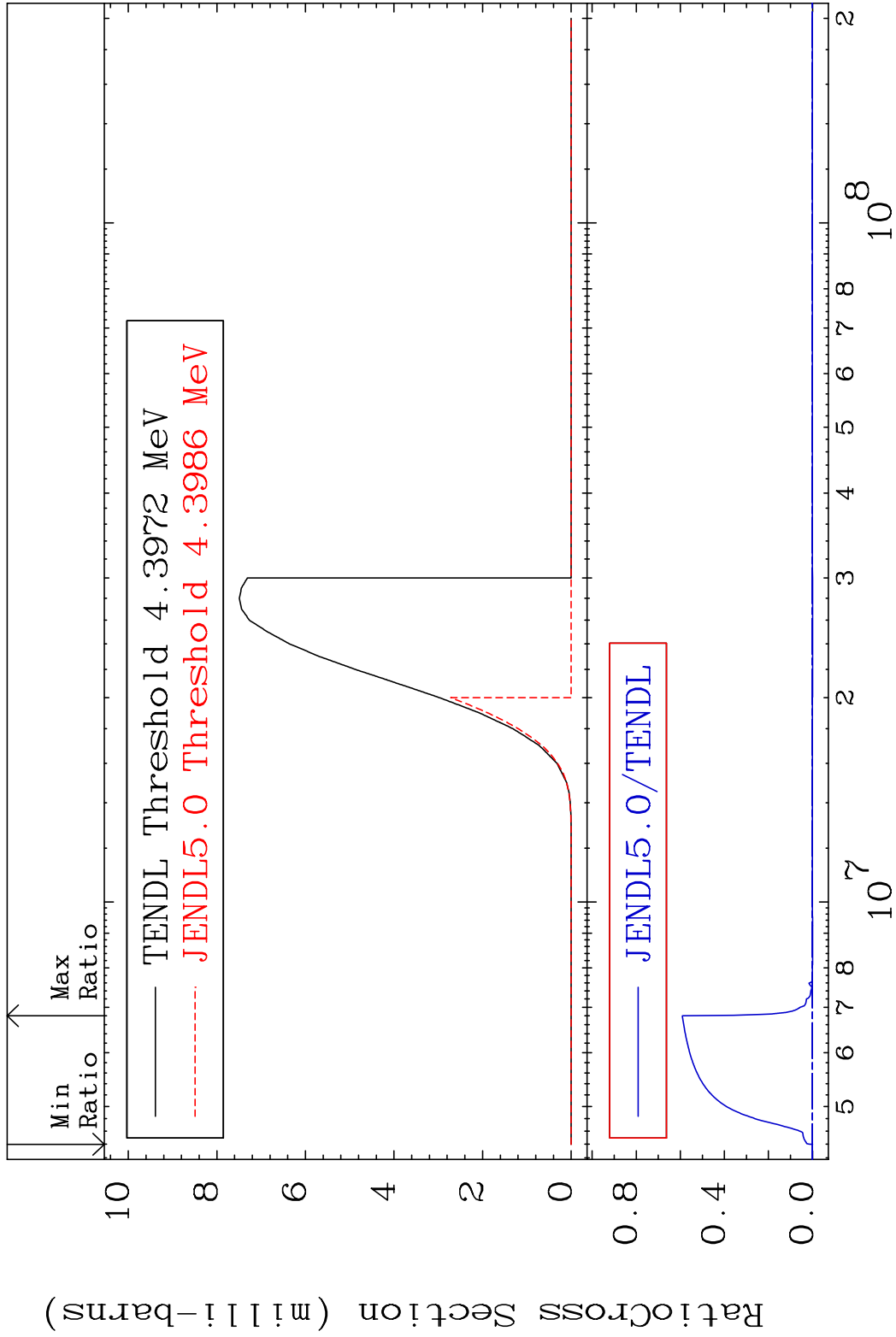
Cross Section -100.0 To 9999. %



30

Incident Energy (eV)

71-Lu-169



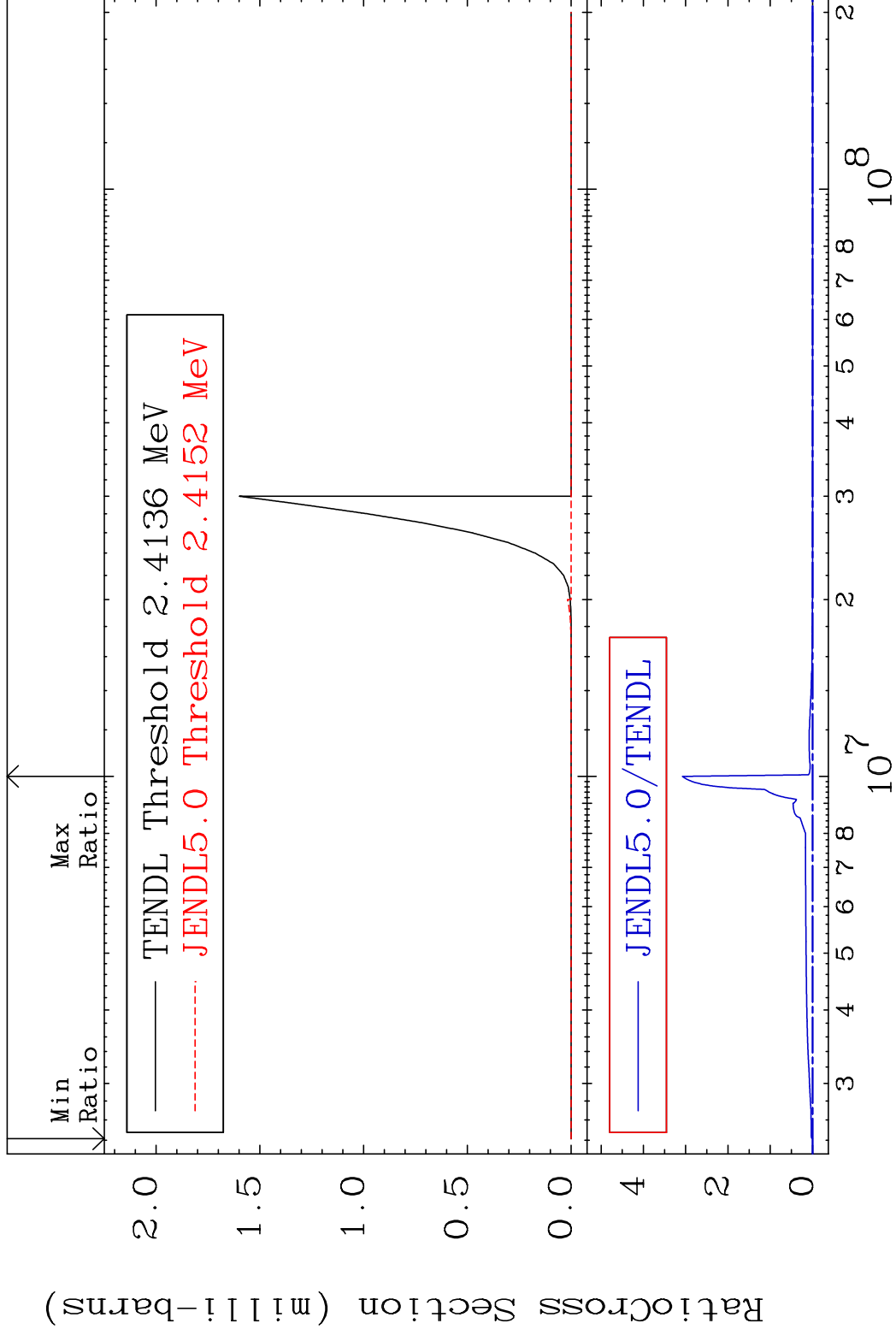


MAT 7107

(n, He-3)

71-Lu-169

Cross Section -100.0 To 9999. %



32

Incident Energy (eV)

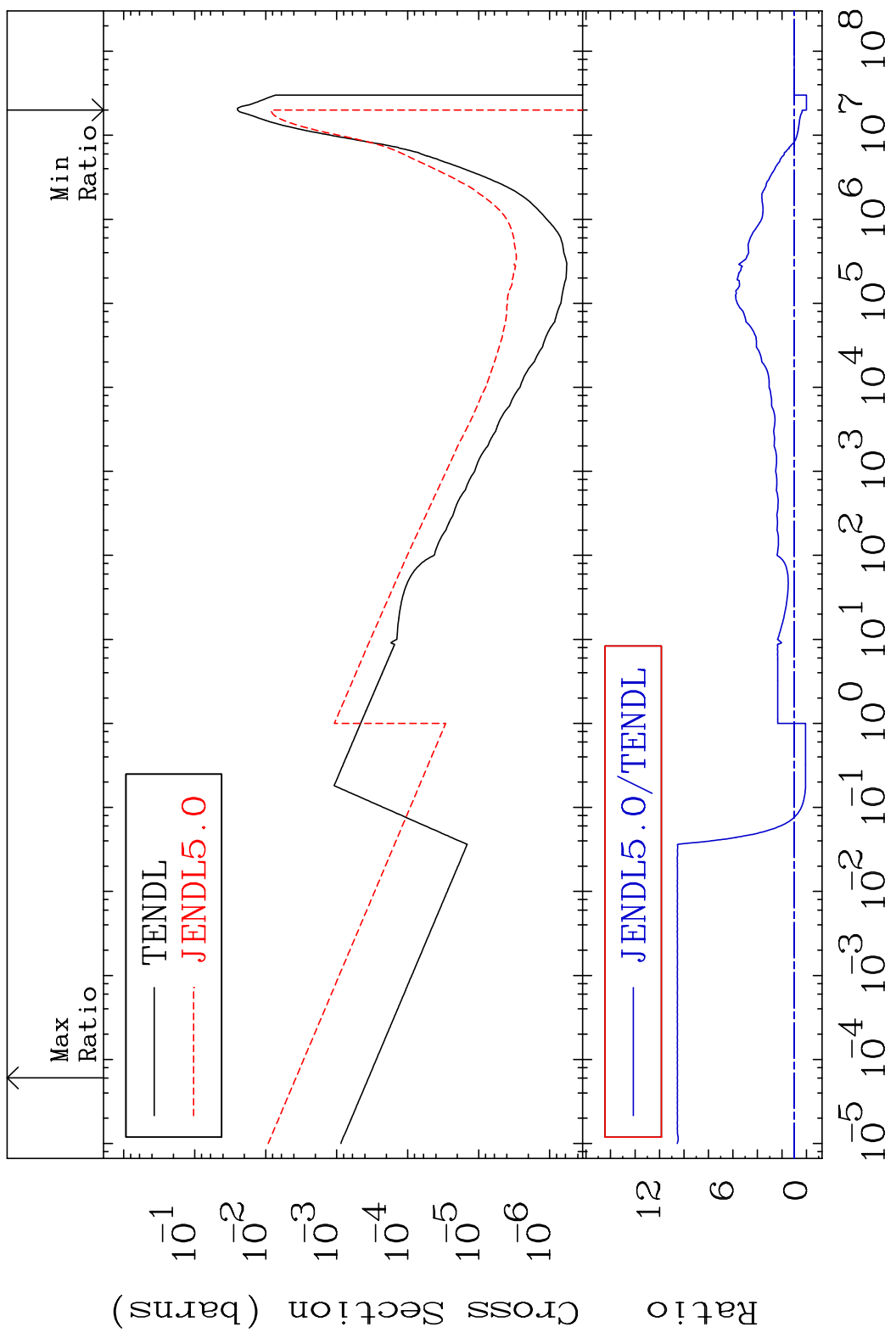
71-Lu-169

MAT 7107

(n,  $\alpha$ )

71-Lu-169

Cross Section -100.0 To 955.6 %



33

Incident Energy (eV)

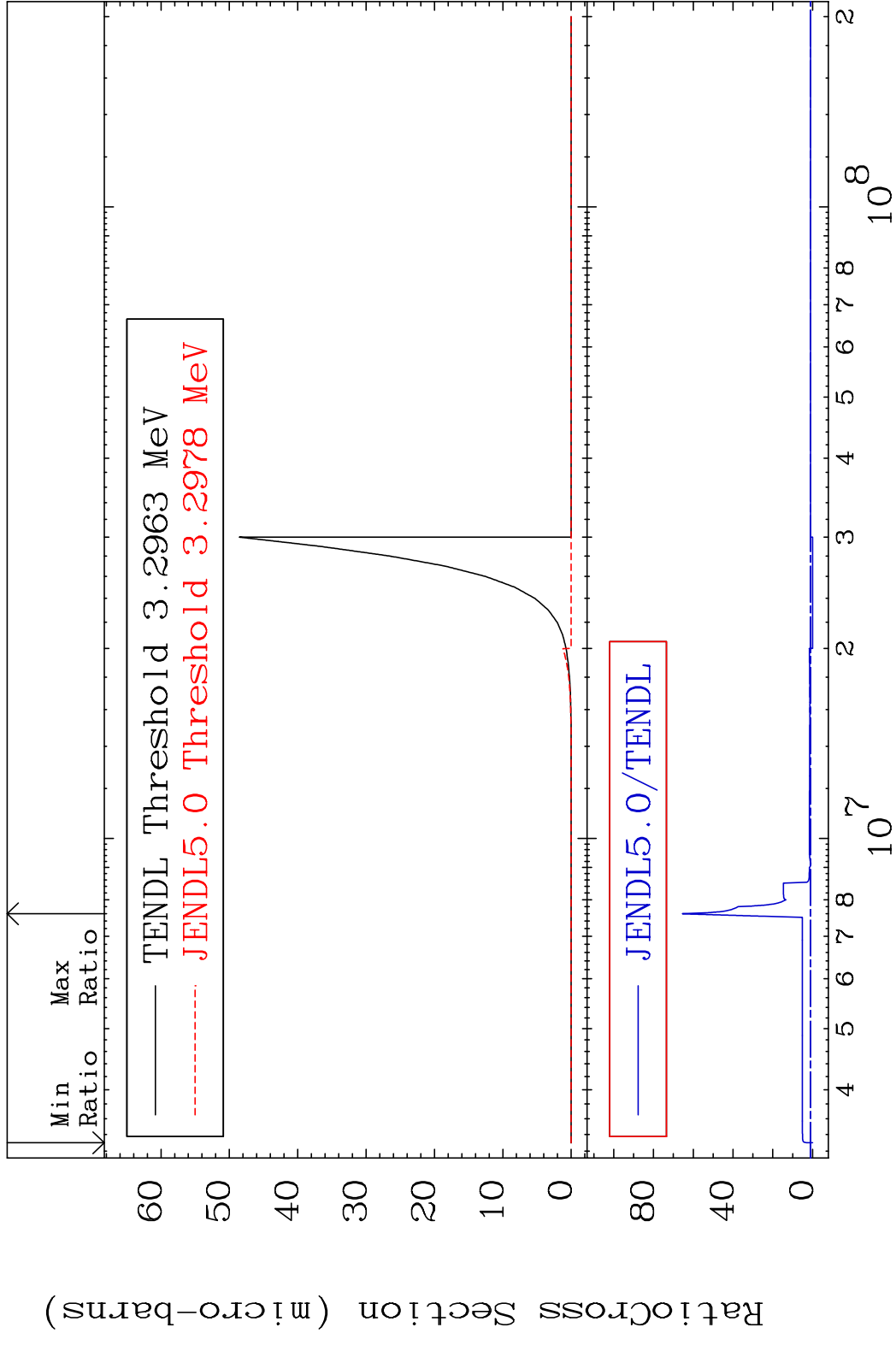
71-Lu-169

MAT 7107

(n,2p)

71-Lu-169

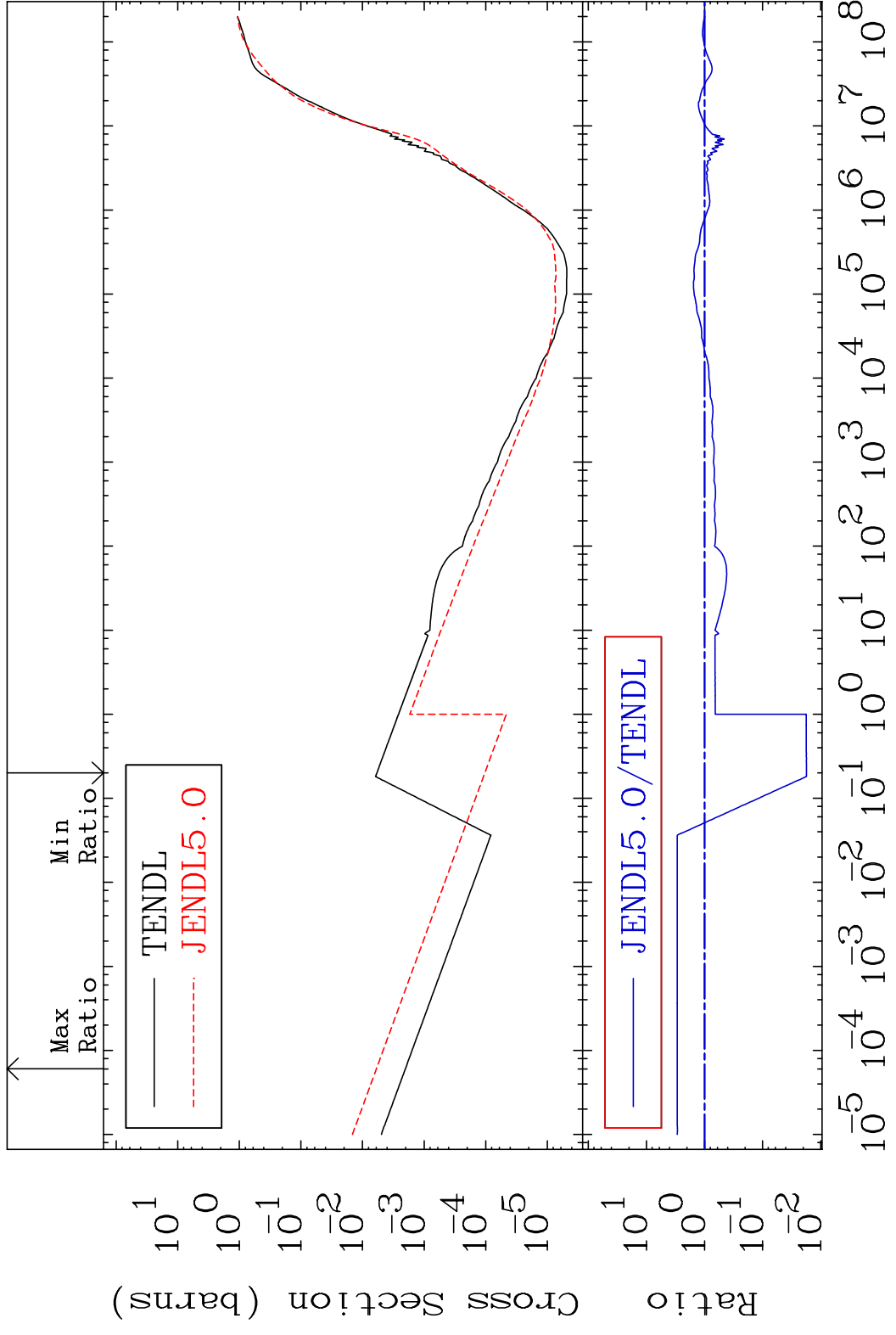
Cross Section -100.0 To 6448. %



MAT 7107

Hydrogen Production  
Cross Section -98.24 To 195.5 %

71-Lu-169

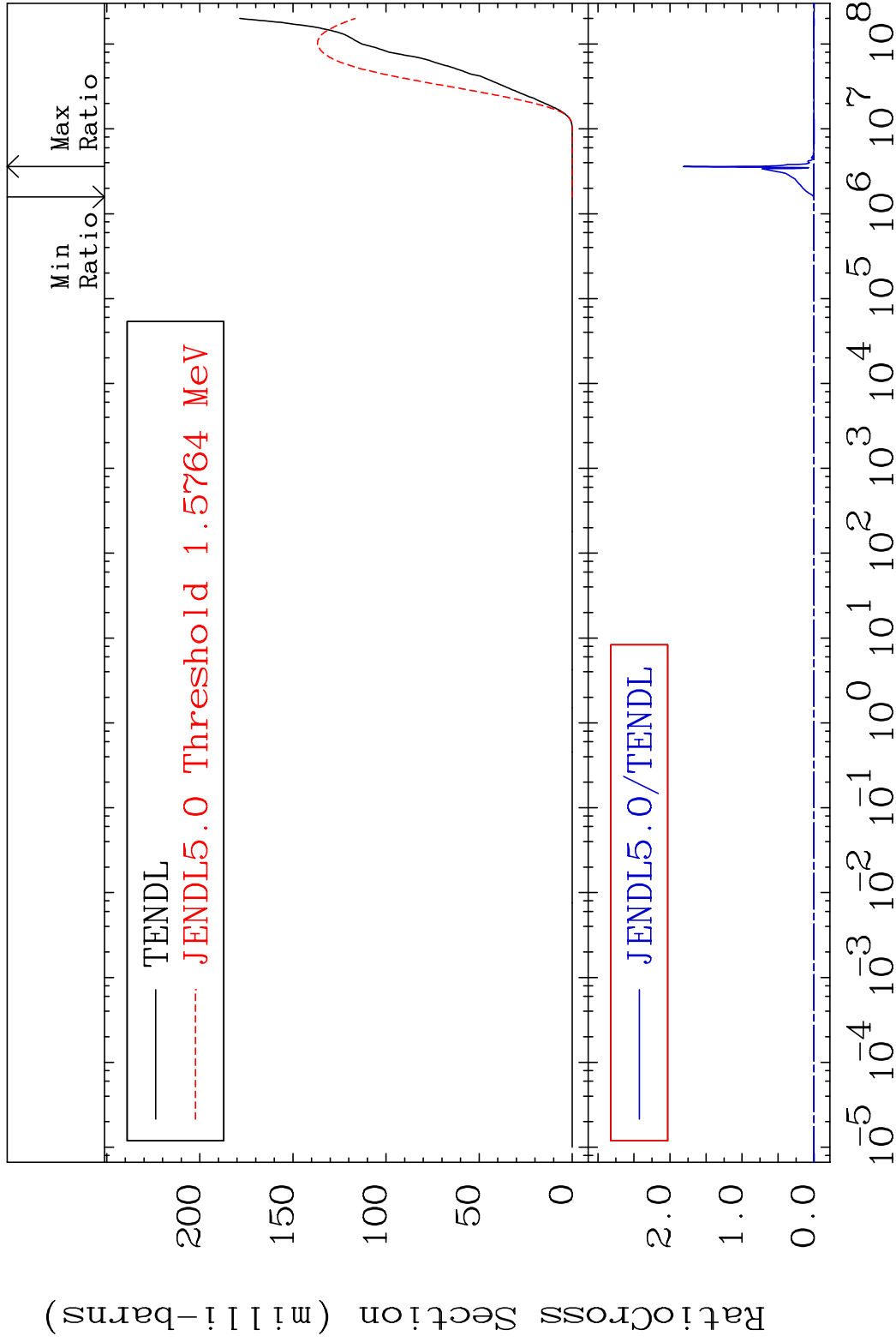


MAT 7107

Deuterium Production

71-Lu-169

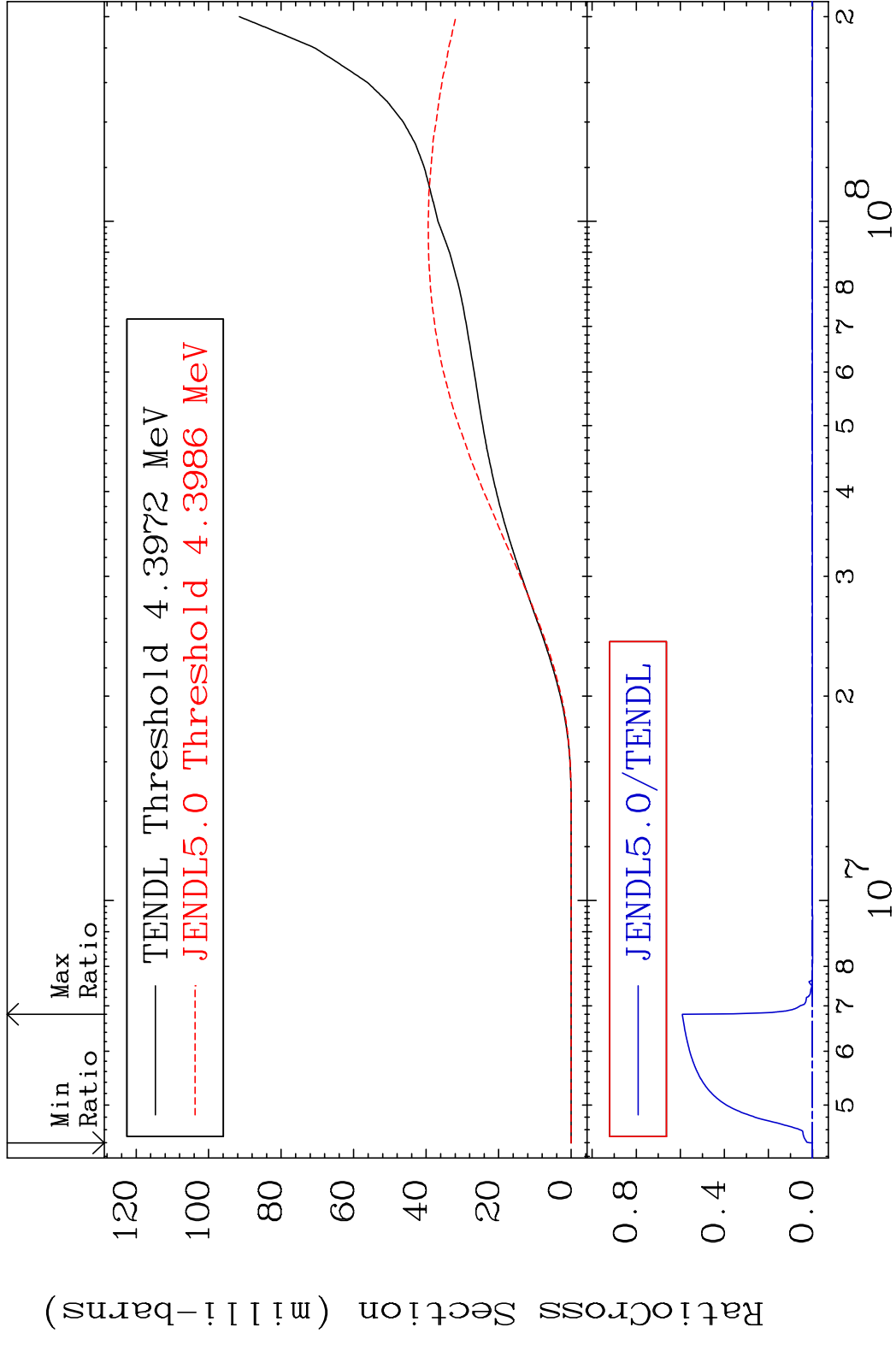
Cross Section -100.0 To 9999. %



36

Incident Energy (eV)

71-Lu-169

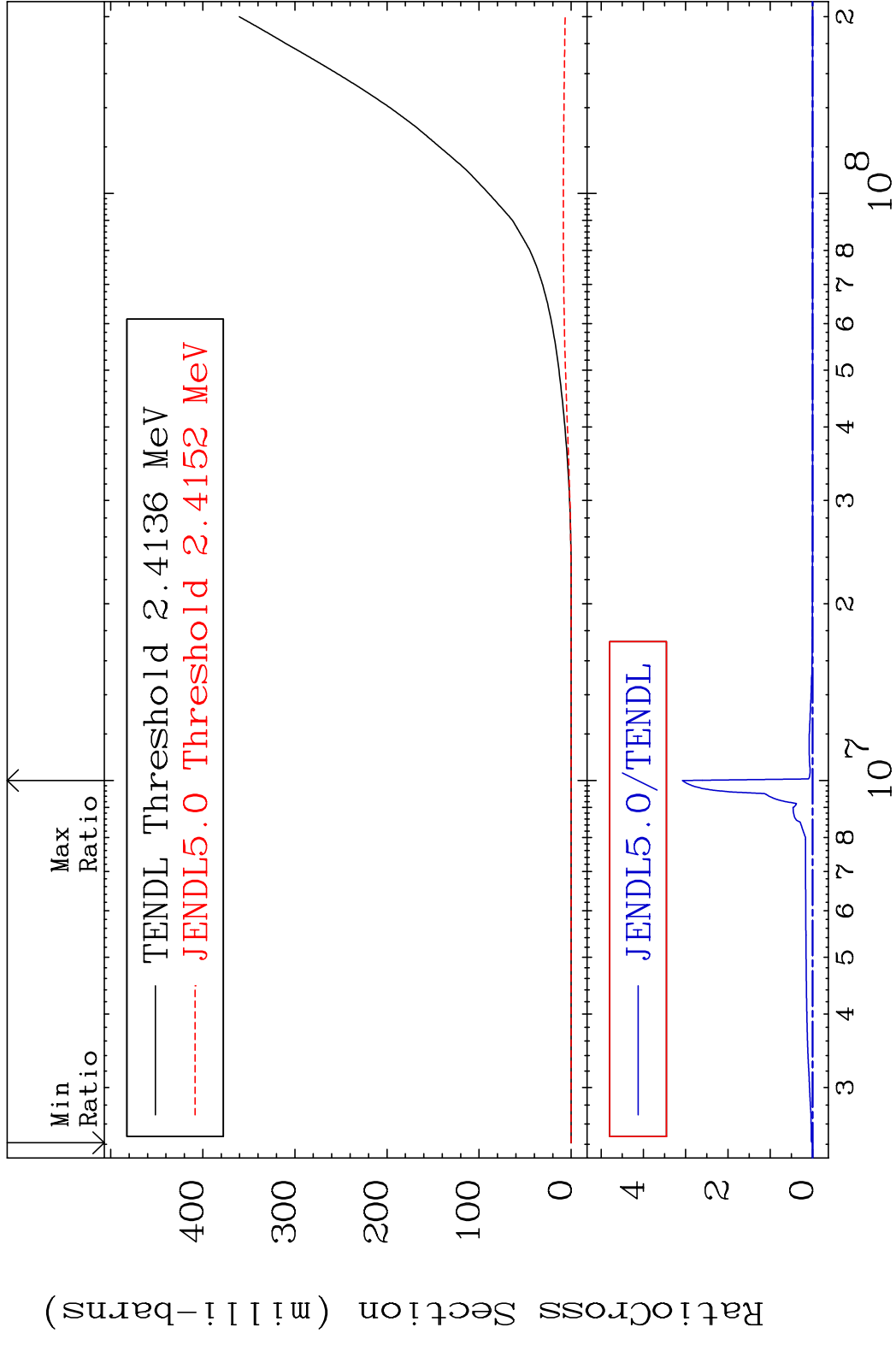


MAT 7107

He-3 Production

71-Lu-169

Cross Section -100.0 To 9999. %

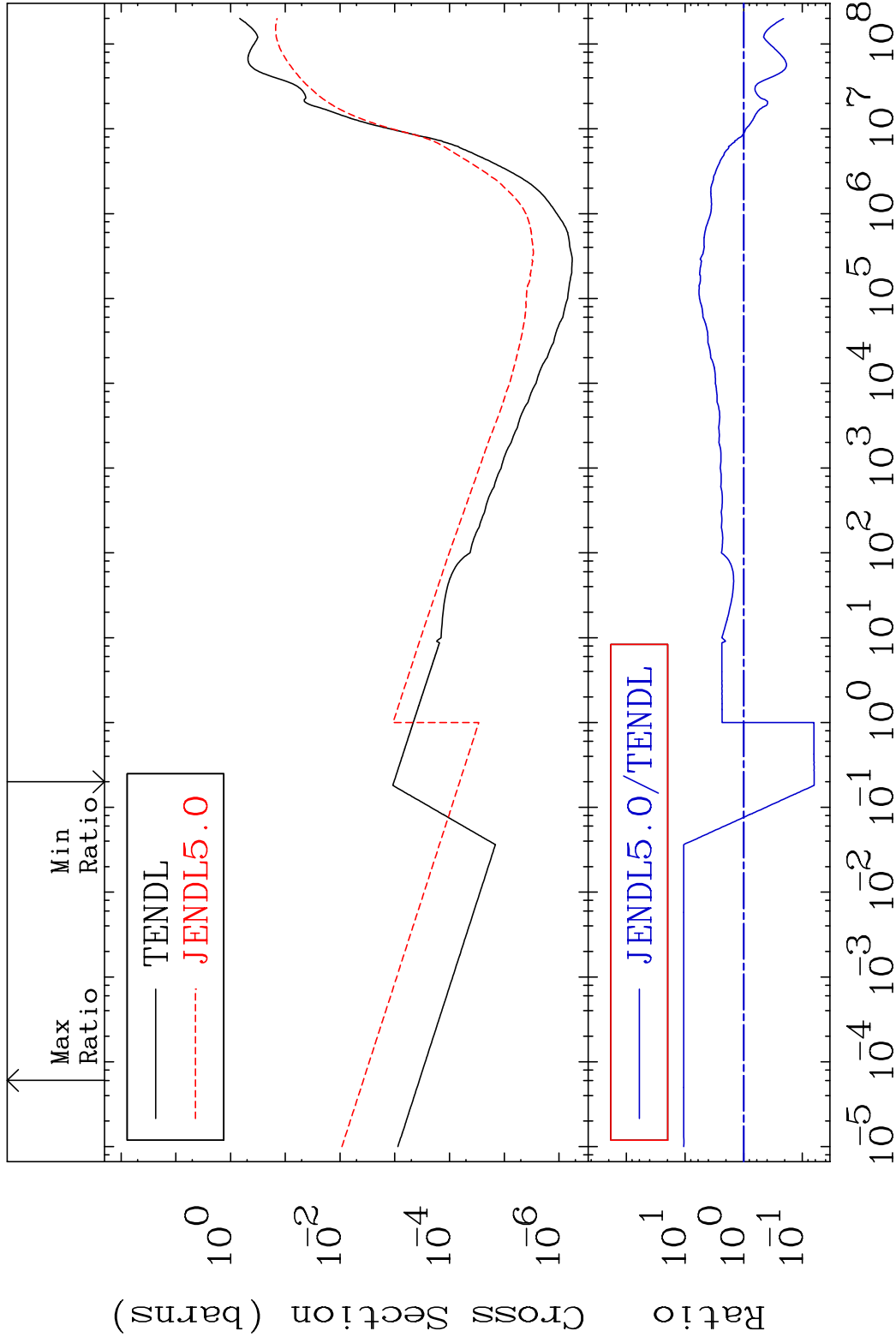


MAT 7107

He-4 Production

71-Lu-169

Cross Section -93.70 To 955.6 %



39

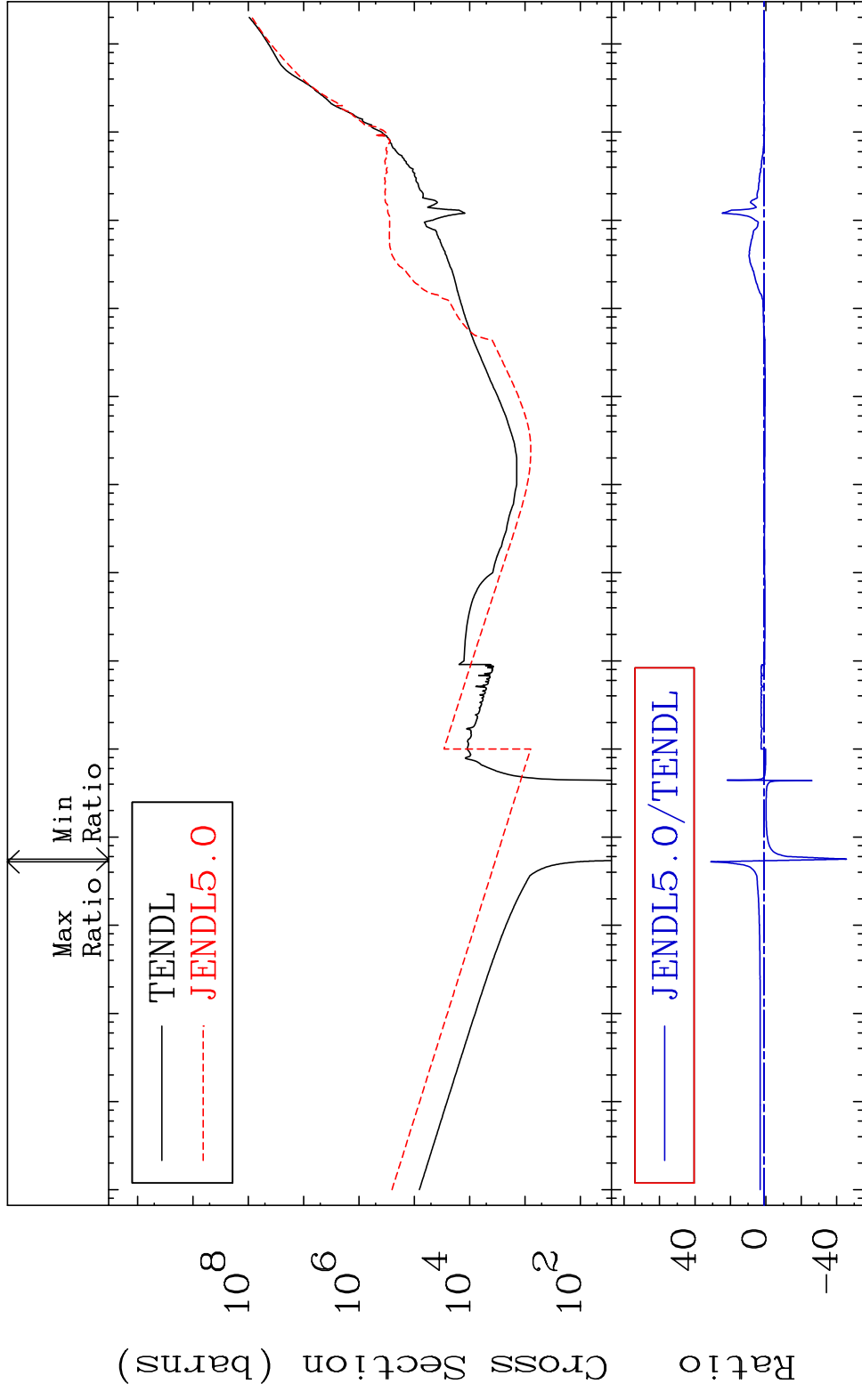
Incident Energy (eV)

71-Lu-169



MAT 7107

Kerma total (eV-barns) 71-Lu-169  
Cross Section -4648. To 3010. %



40

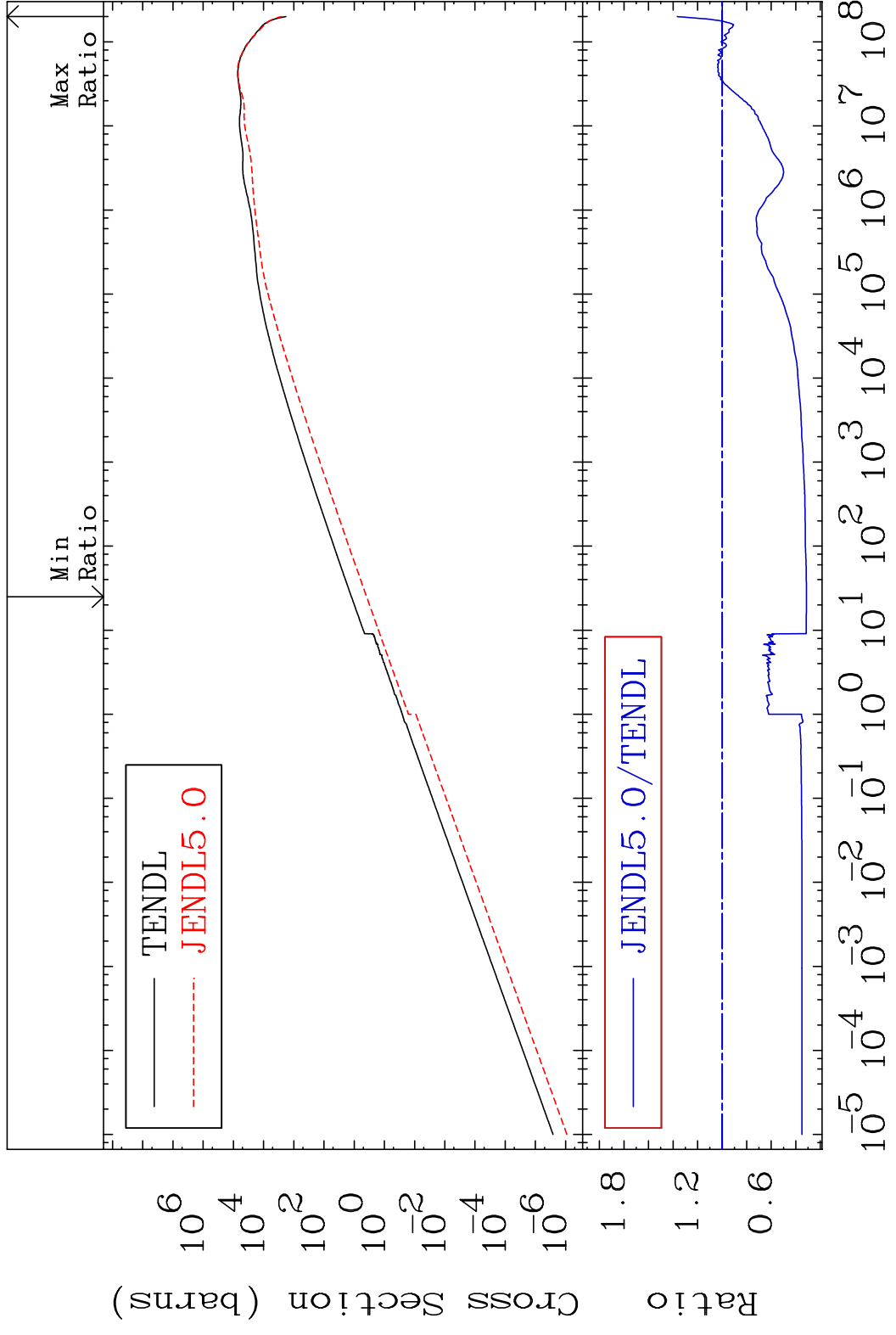
Incident Energy (eV)

71-Lu-169

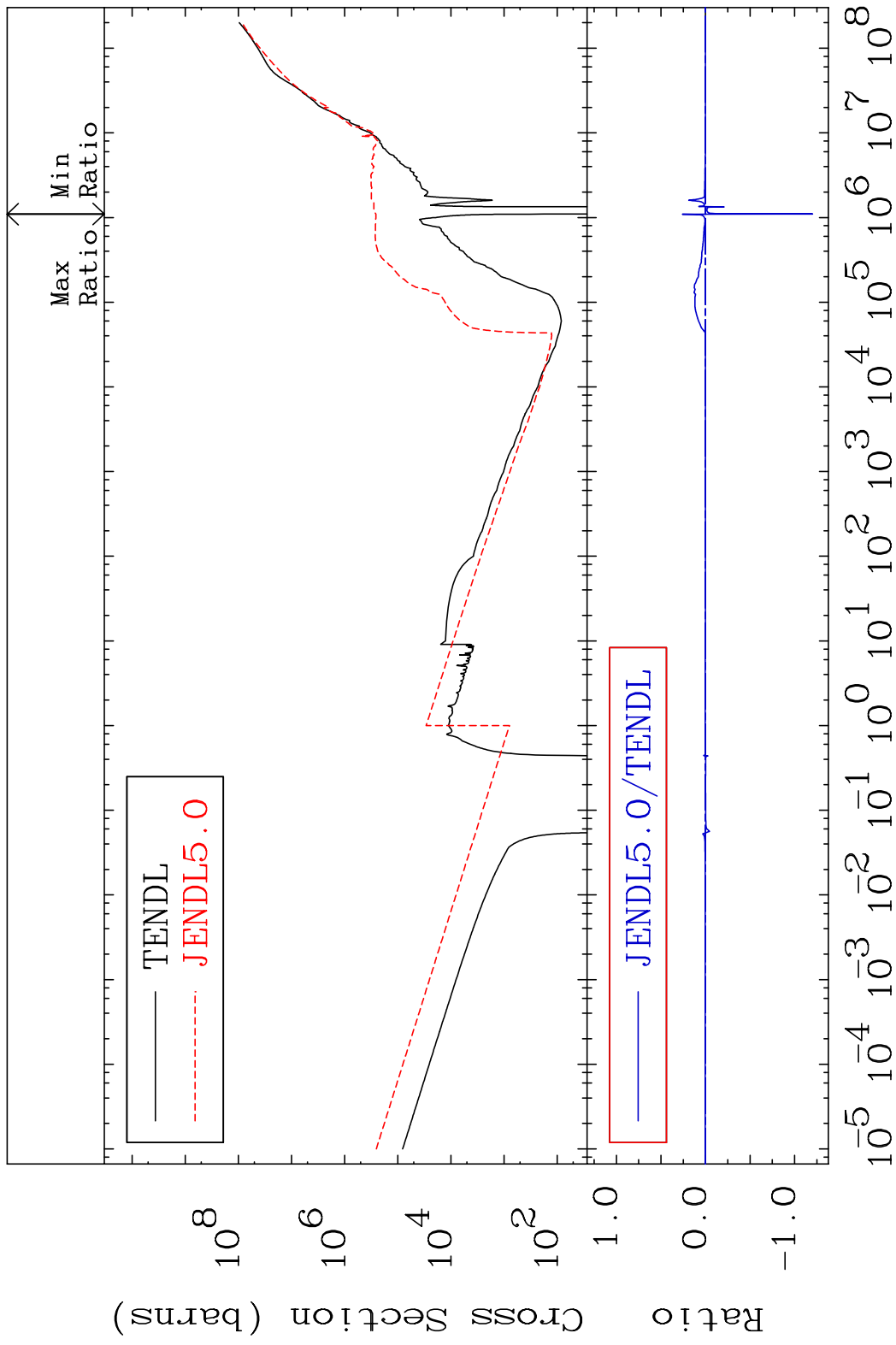
MAT 7107

Kerma elastic  
Cross Section -68.65 To 36.65 %

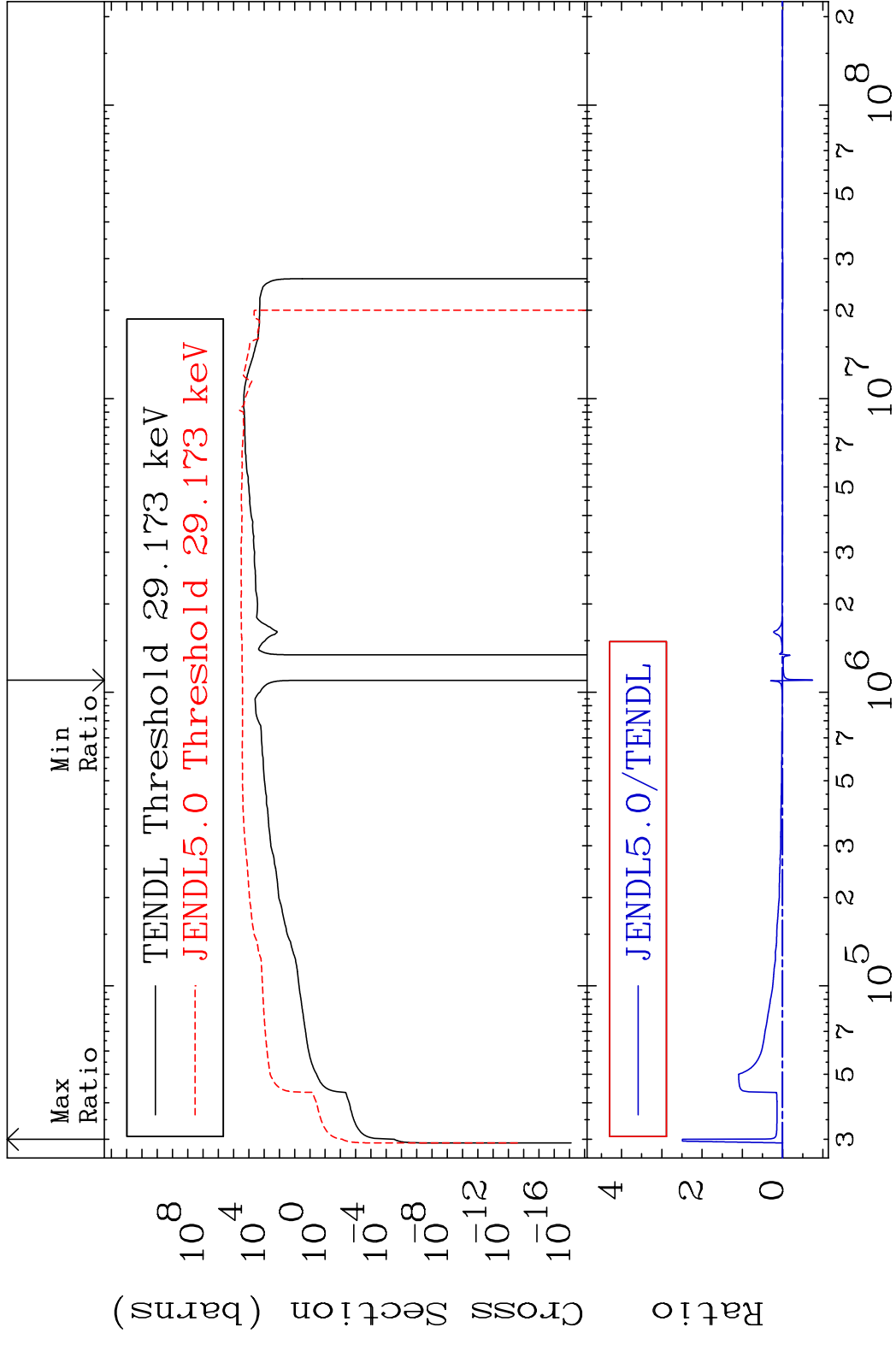
71-Lu-169



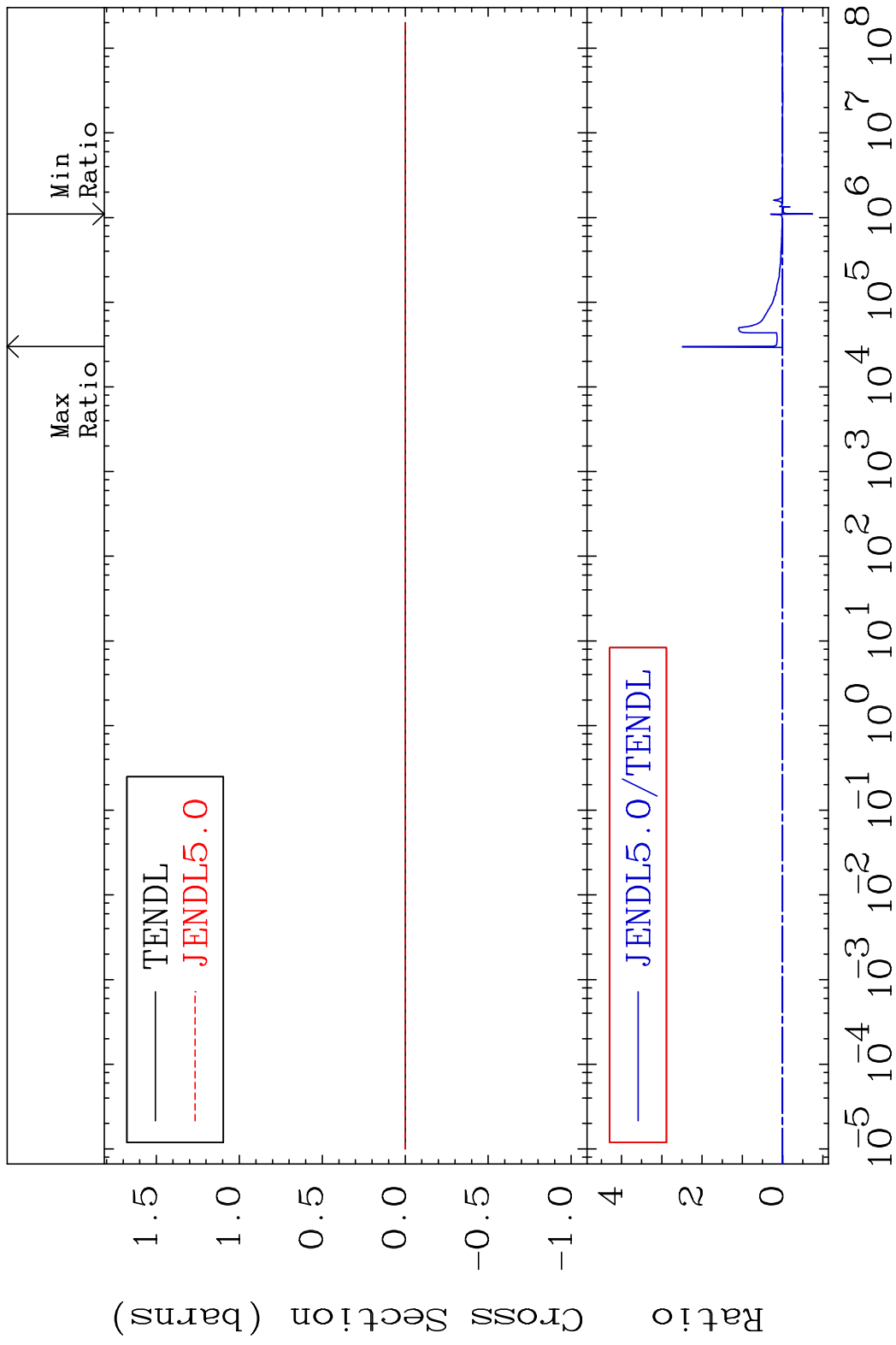
MAT 7107 Kerma non-elastic (all but mt2) 71-Lu-169  
 Cross Section -9999. To 9999. %



MAT 7107 Kerma inelastic (mt51-91) 71-Lu-169  
 Cross Section -9999. To 9999. %



MAT 7107 Kerma fission (mt18 or mt19-20-21-38) 71-Lu-169  
 Cross Section -9999. To 9999. %

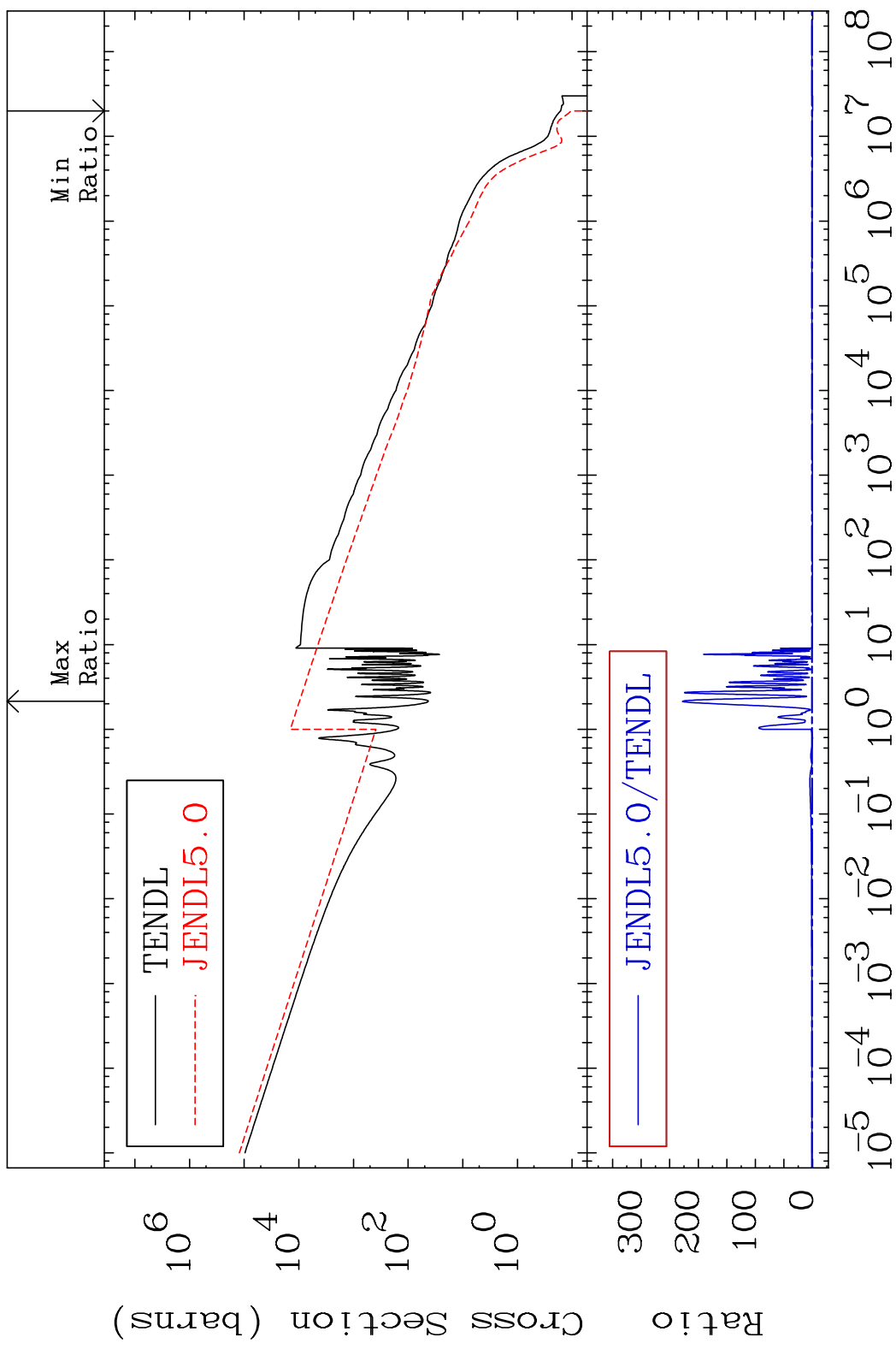


MAT 7107

Kerma capture (mt102)

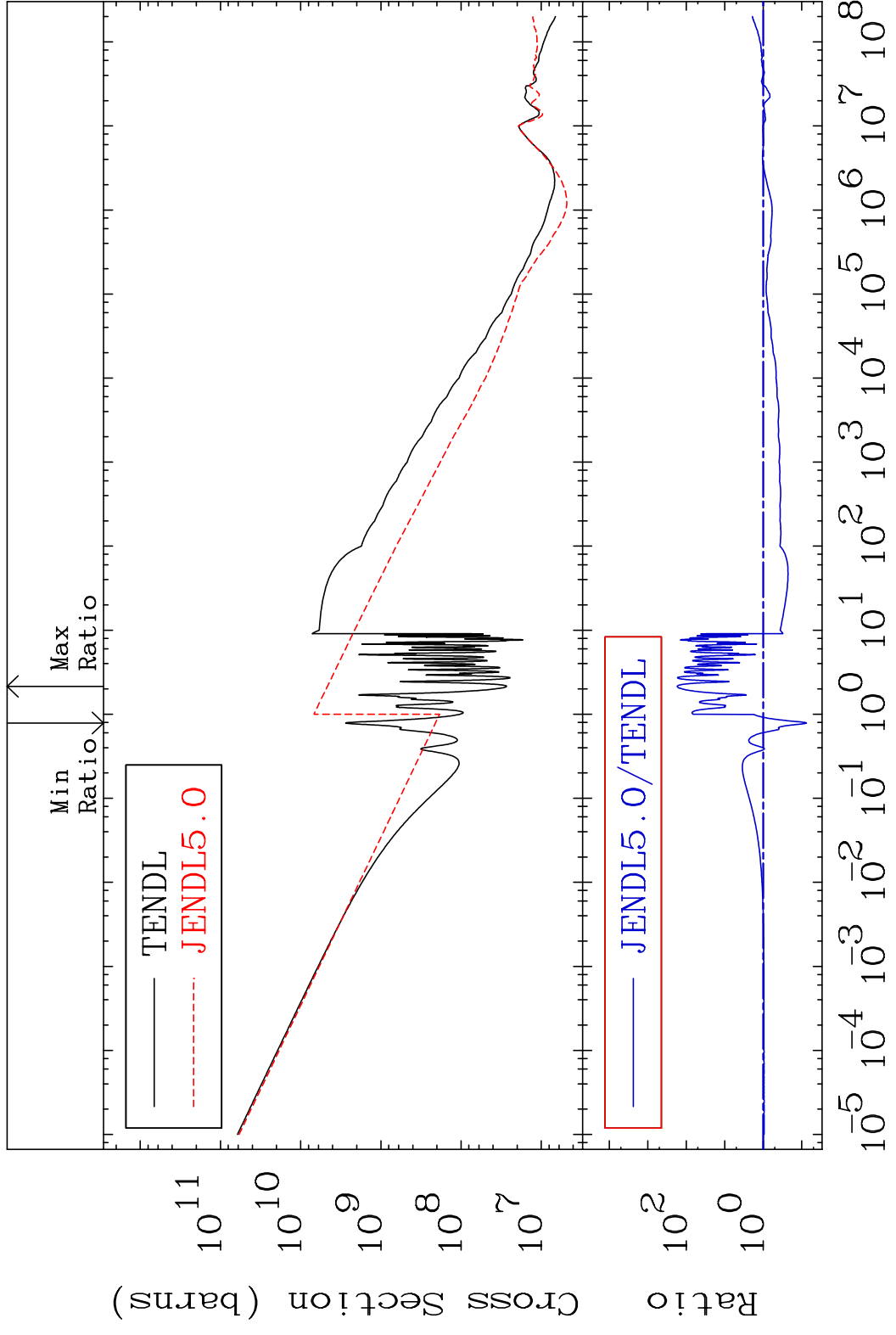
71-Lu-169

Cross Section -100.0 To 9999. %

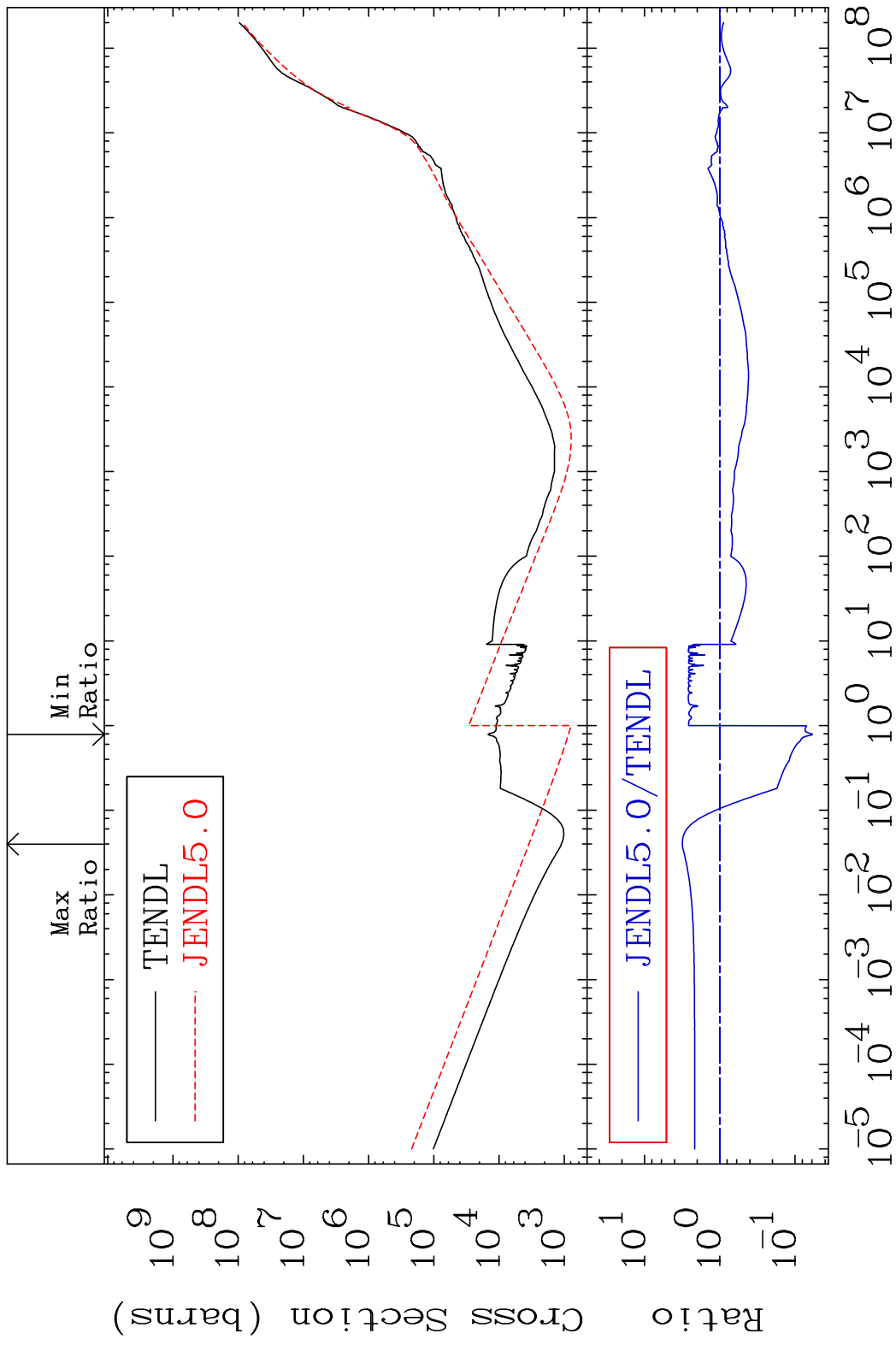


MAT 7107

Total photon (eV-barns) 71-Lu-169  
Cross Section -92.42 To 9999. %



MAT 7107 Total kinematic kerma (high limit) 71-Lu-169  
 Cross Section -94.13 To 215.3 %



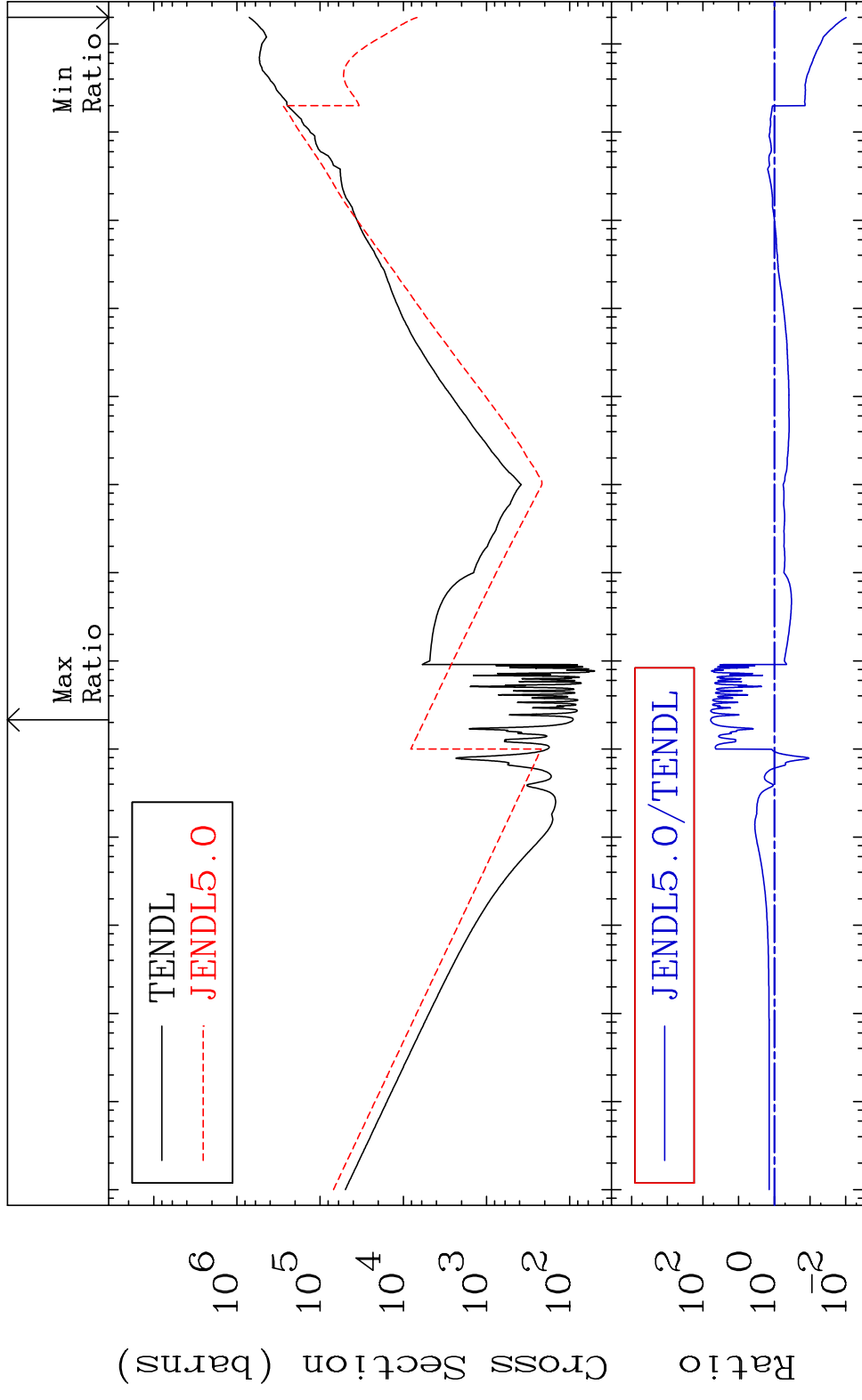


MAT 7107

Dpa total (eV-barns)

71-Lu-169

Cross Section -99.04 To 5968. %

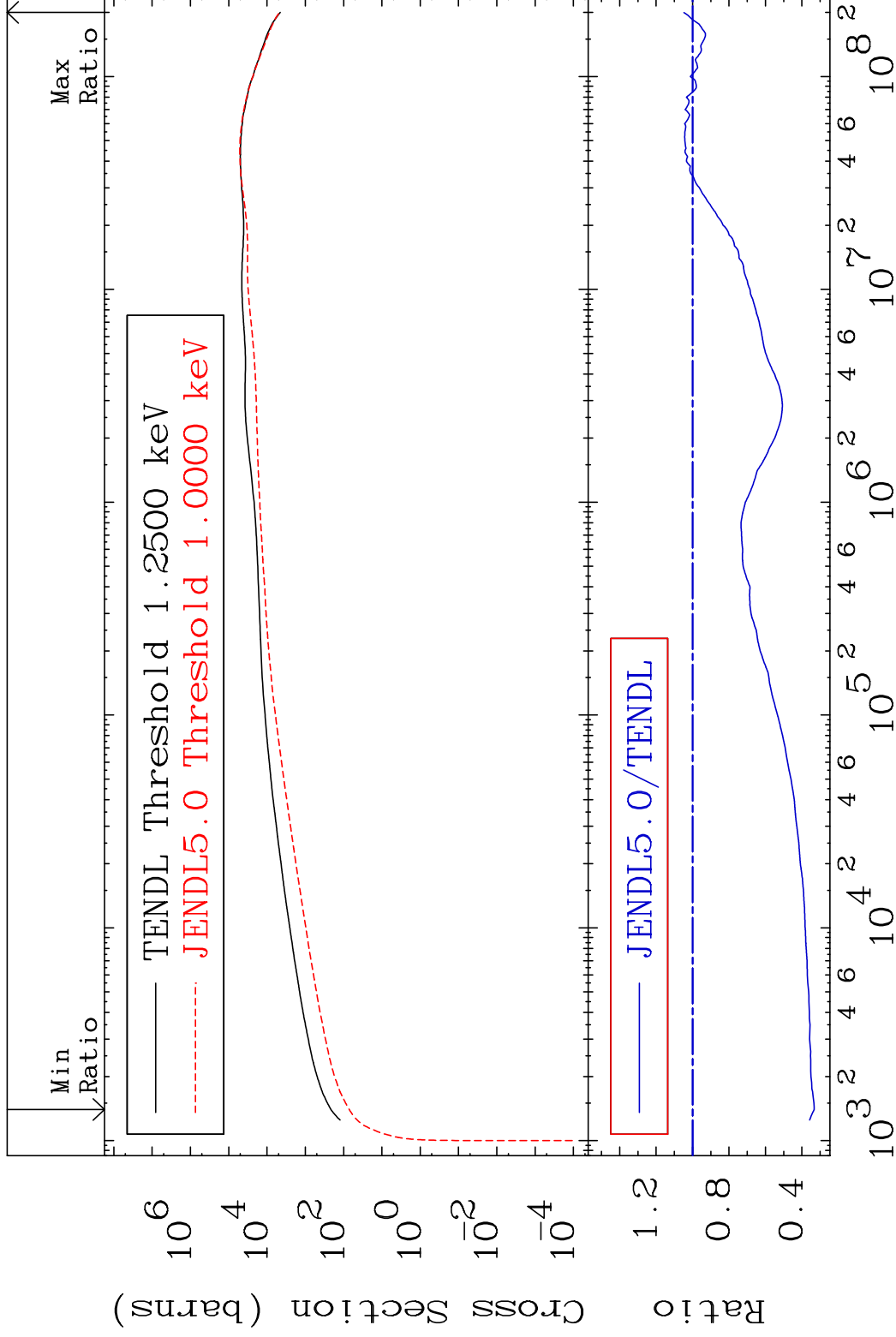


MAT 7107

Dpa elastic (mt2)

71-Lu-169

Cross Section -66.68 To 4.907 %

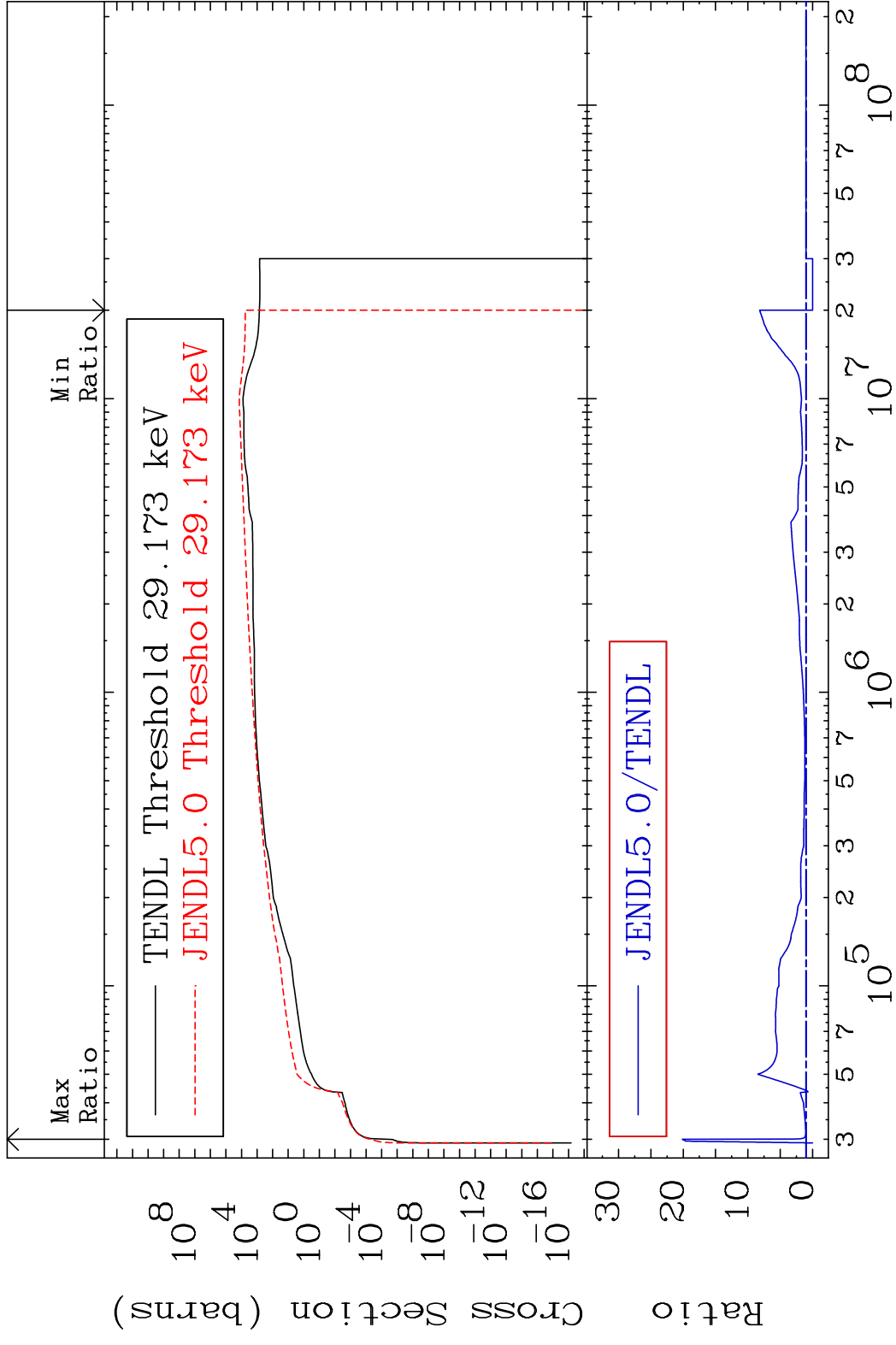


49

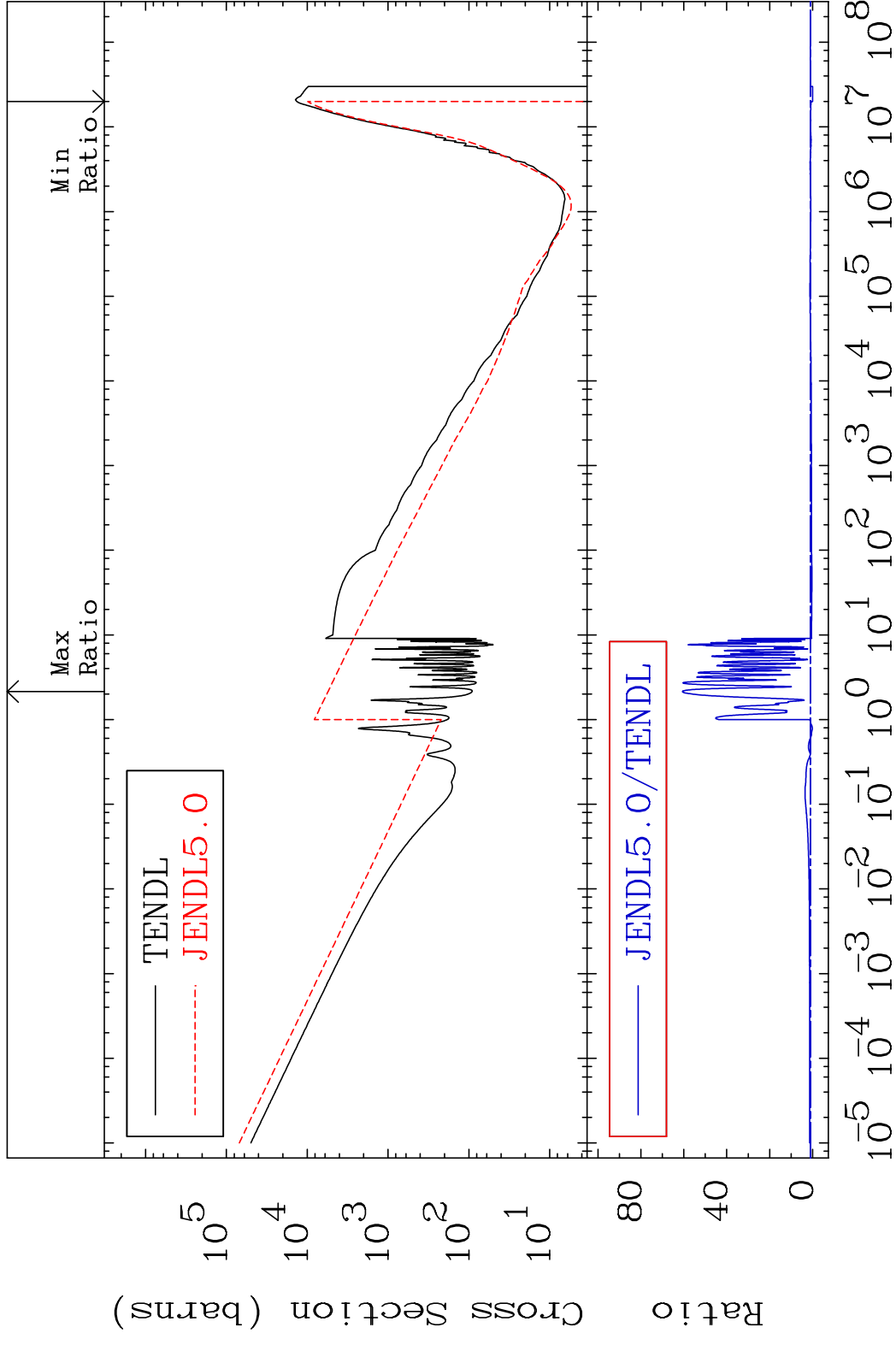
Incident Energy (eV)

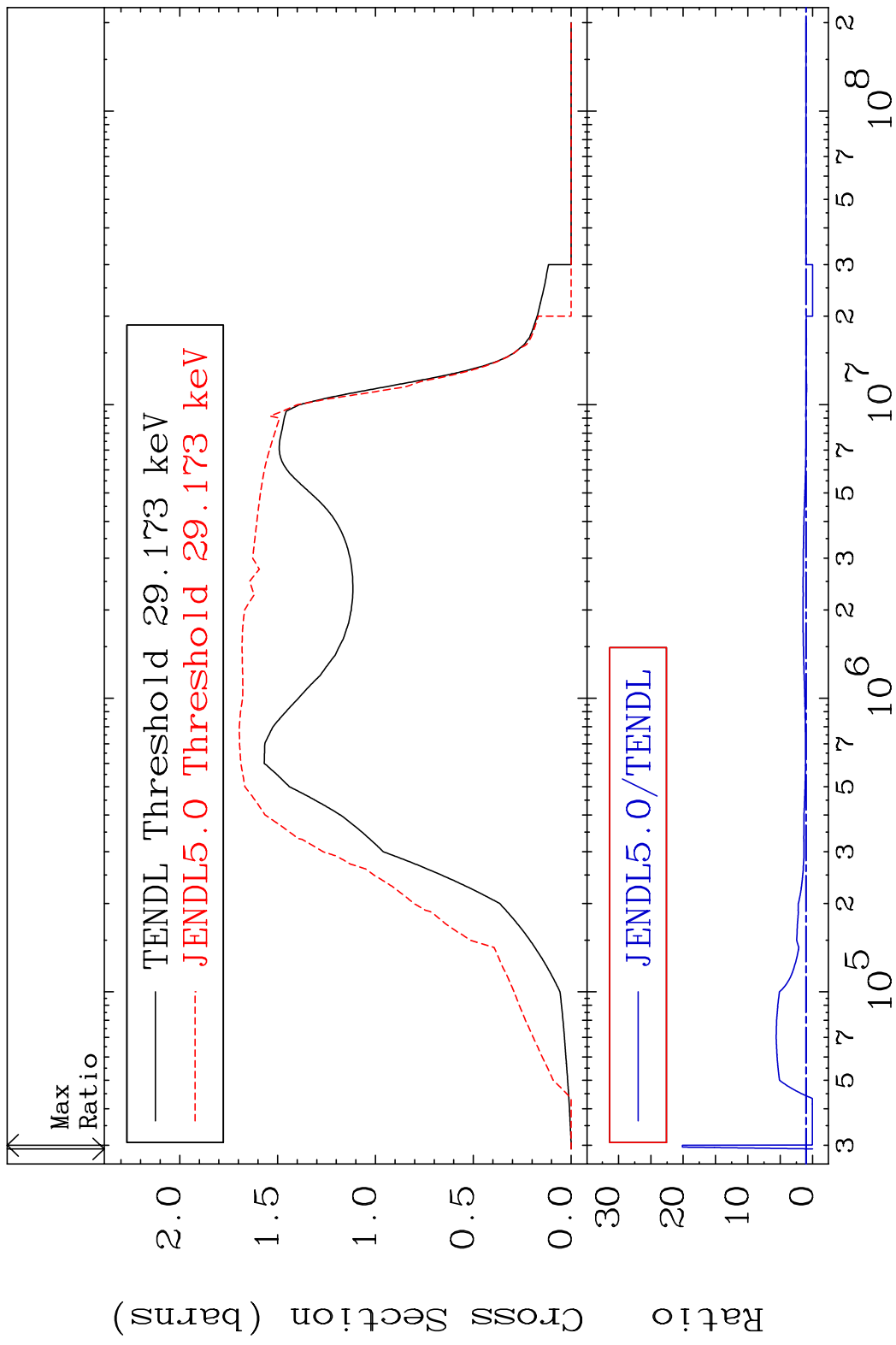
71-Lu-169

MAT 7107 Dpa inelastic (mt51-91) 71-Lu-169  
 Cross Section -100.0 To 1913. %

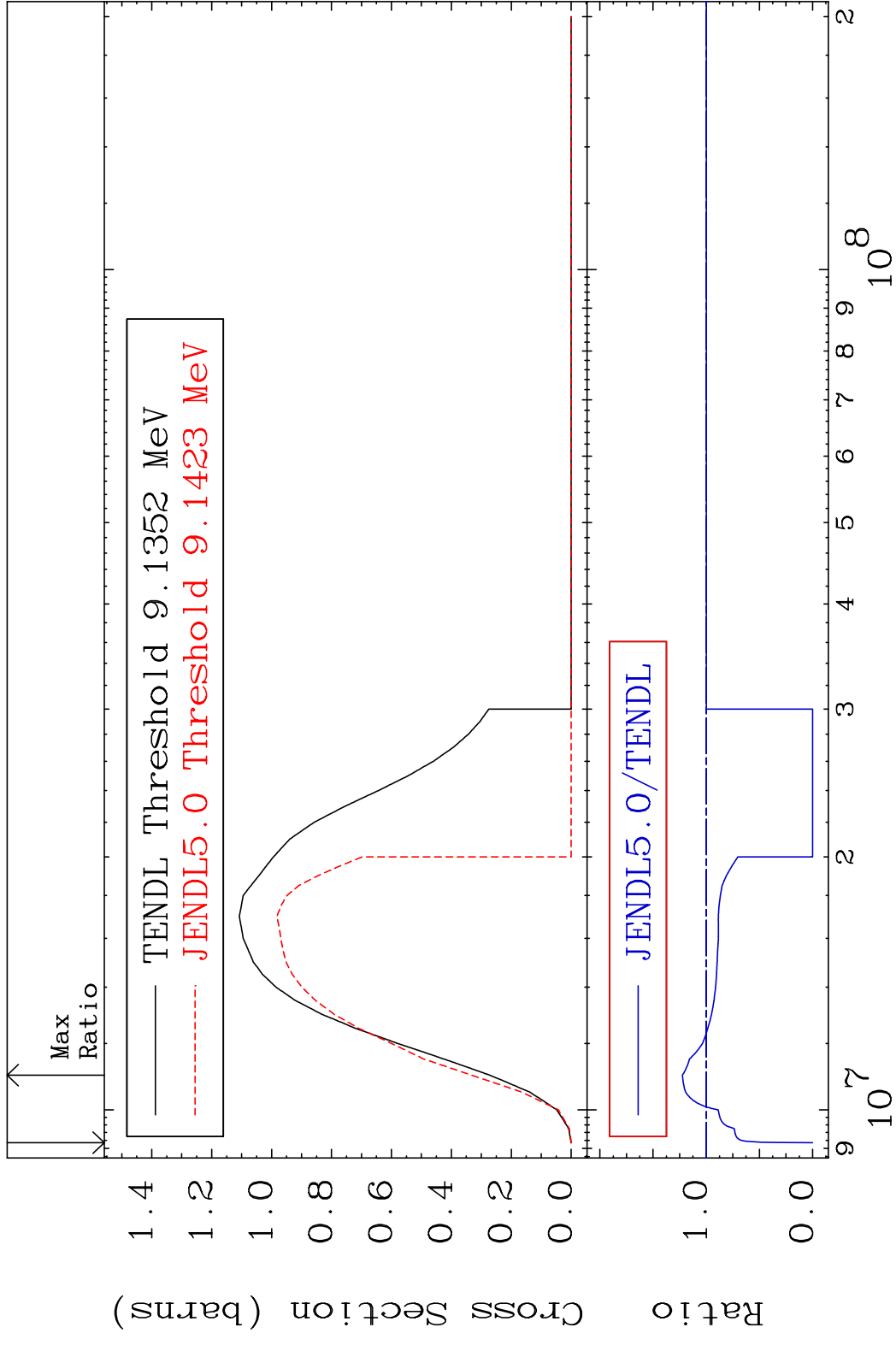


MAT 7107 Dpa disappearance (mt102 -120) 71-Lu-169  
 Cross Section -100.0 To 5968. %

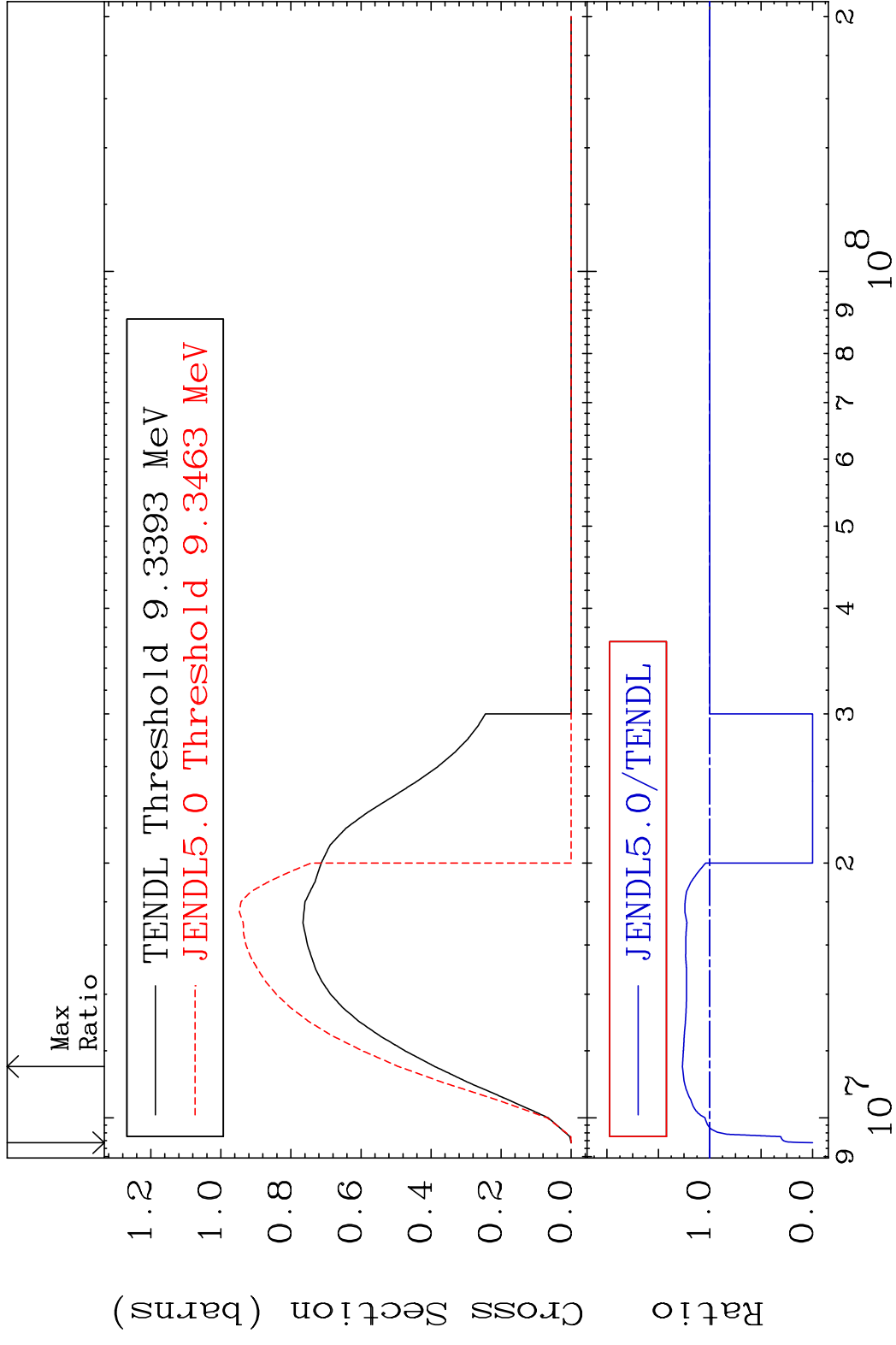




MAT 7107 (n,2n):71-Lu-168g 71-Lu-169  
 Radionuclide Production Cross Section Ratio 22.46 %



MAT 7107 (n,2n):71-Lu-168m1 71-Lu-169  
 Radionuclide Production Cross Section Ratio 26.66 %



MAT 7107 (n,3n):71-Lu-167g 71-Lu-169  
 Radionuclide Production Cross Section 180.0 dth 317.4 %

