

Program Complot
(Version 2018-1)

by

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Press Mouse Button to Start

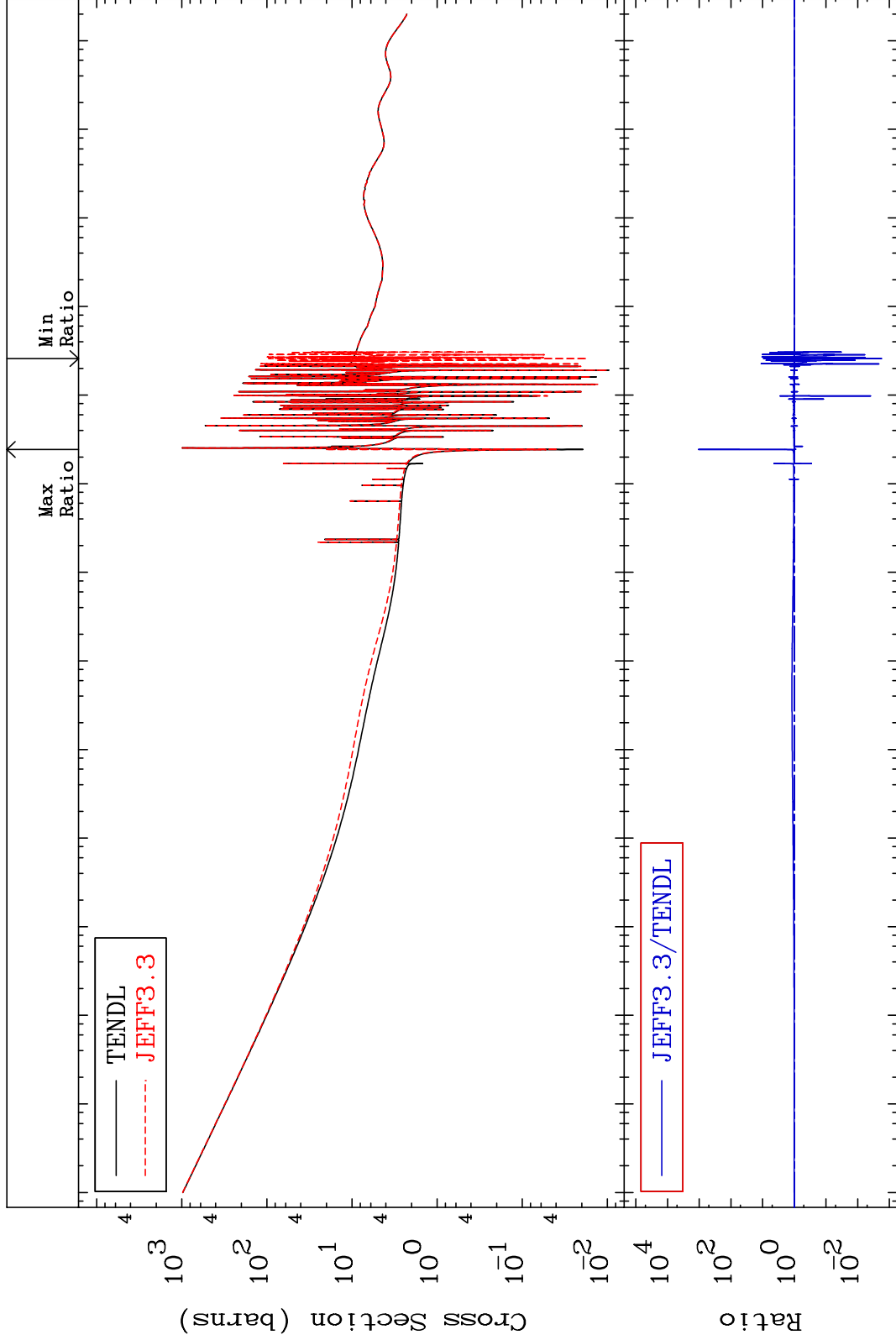
MAT 6025

Total

60-Nd-142

Cross Section

-99.82 To 9999. %



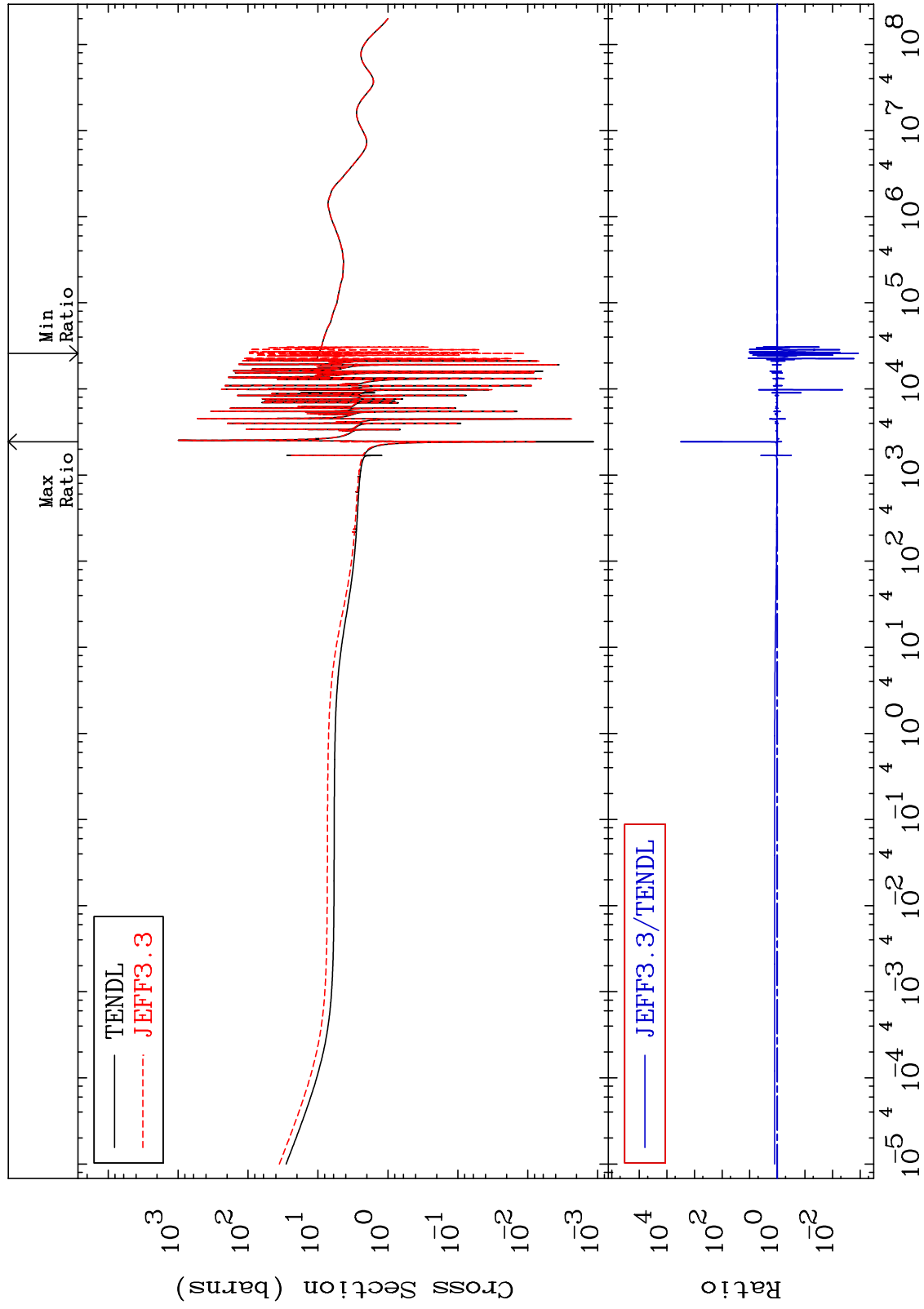
Incident Energy (eV)

60-Nd-142

MAT 6025

Elastic
Cross Section

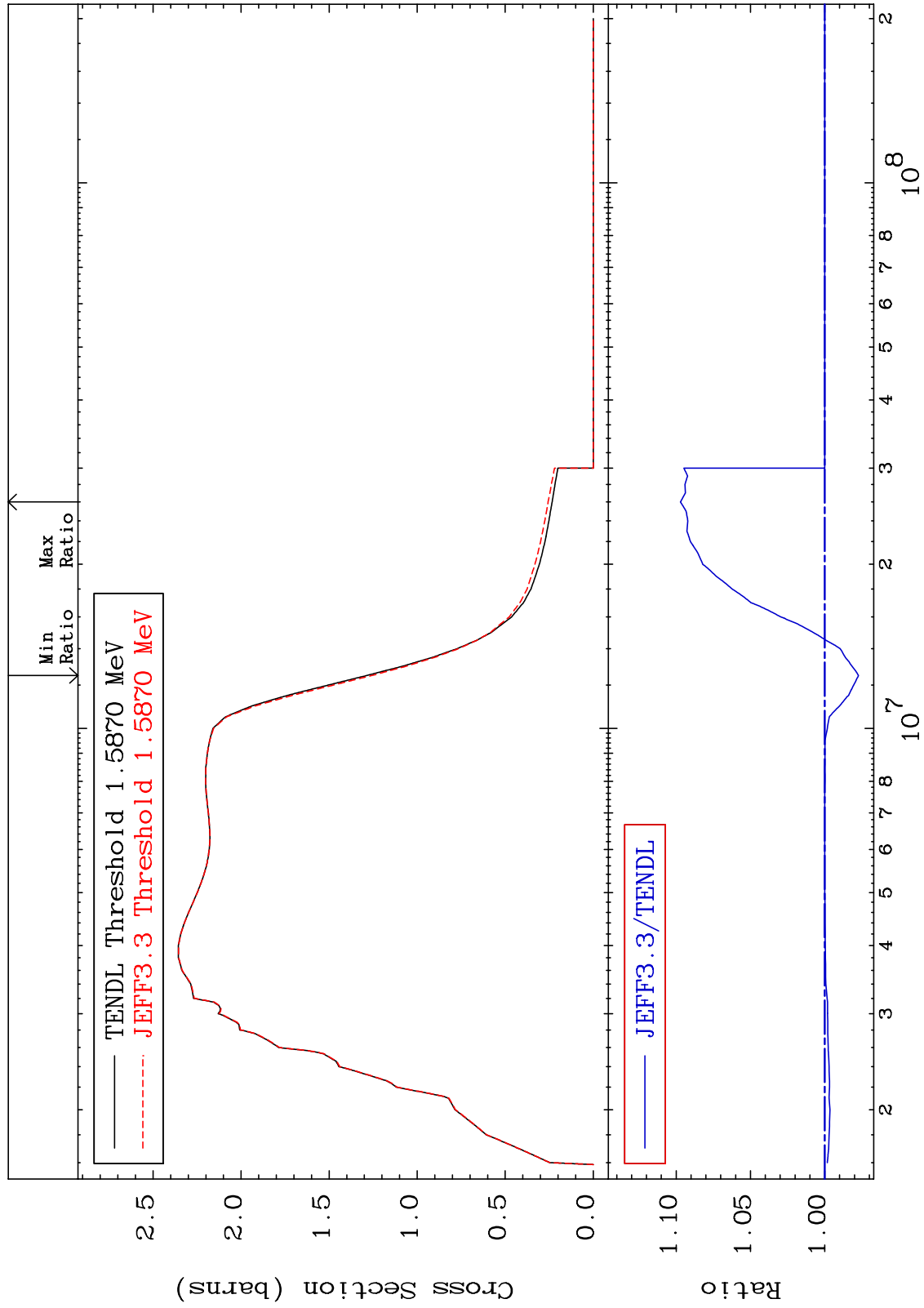
60-Nd-142
-99.89 To 9999. %



MAT 6025

60-Nd-142
-2.272 To 9.711 %

Inelastic
Cross Section



MAT 6025

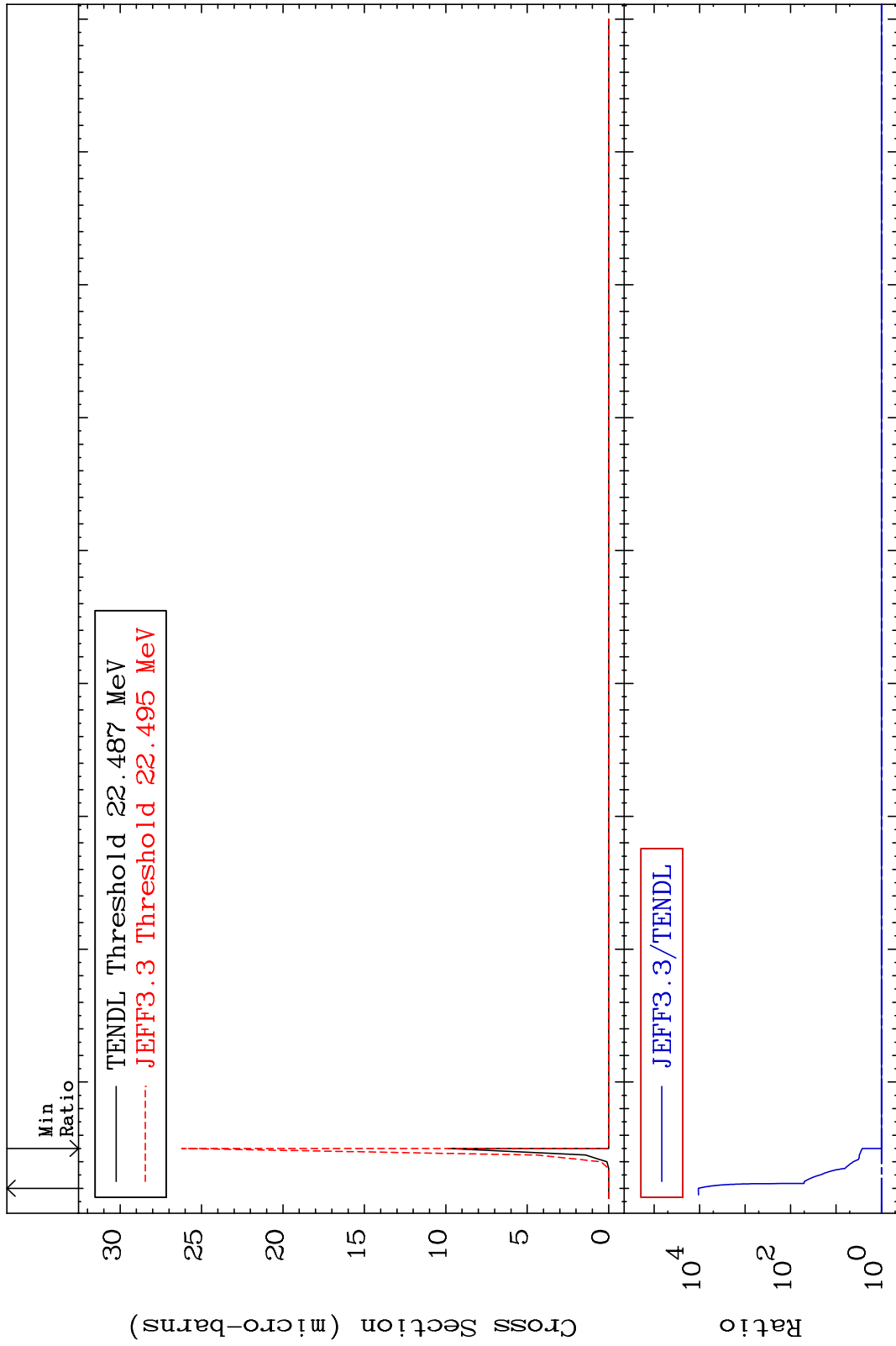
(n,2n) d

60-Nd-142

Cross Section

0.000

To 9999. %



60-Nd-142

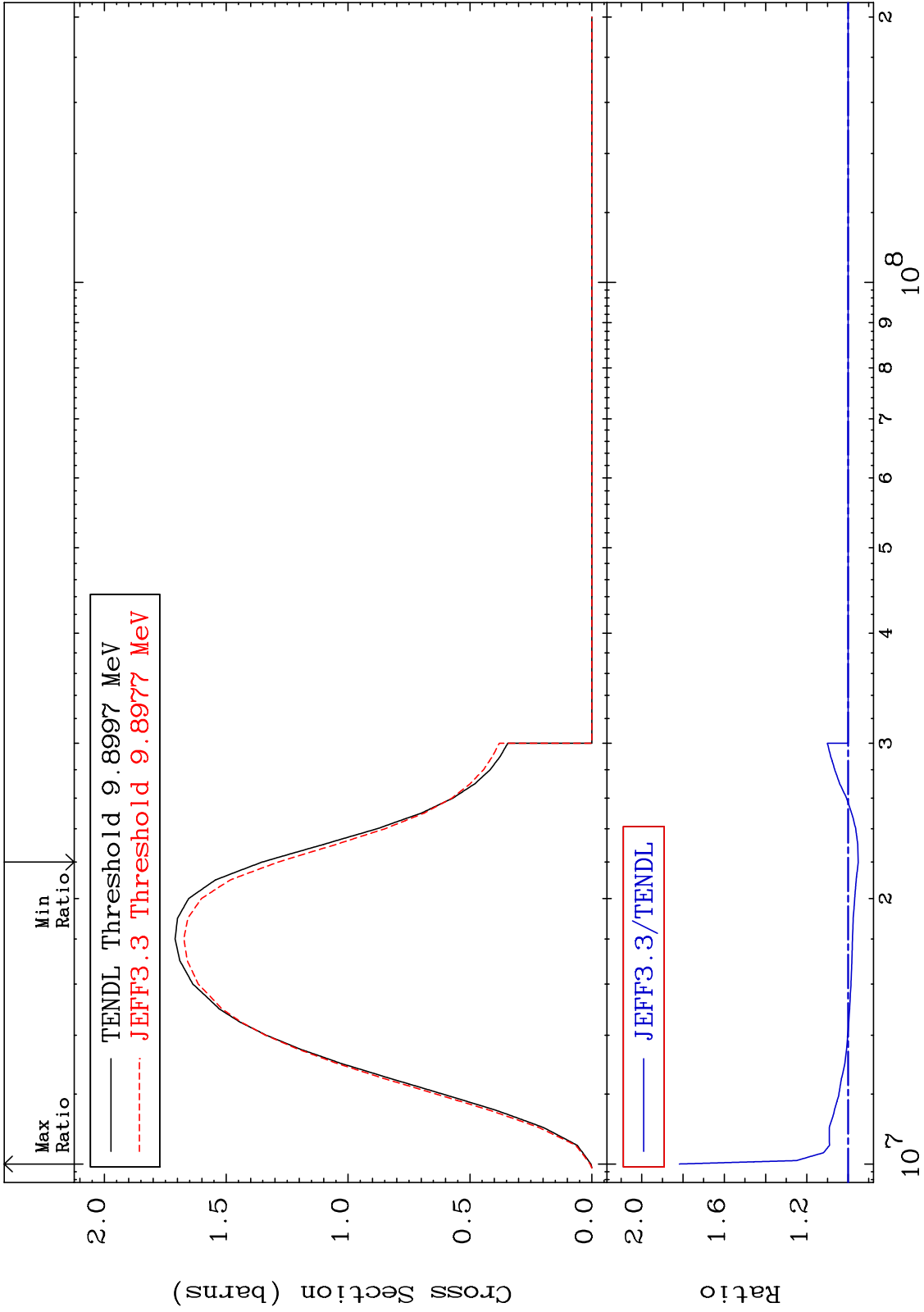
MAT 6025

(n,2n)

60-Nd-142

Cross Section

-4.896 To 81.78 %



Incident Energy (eV)

60-Nd-142

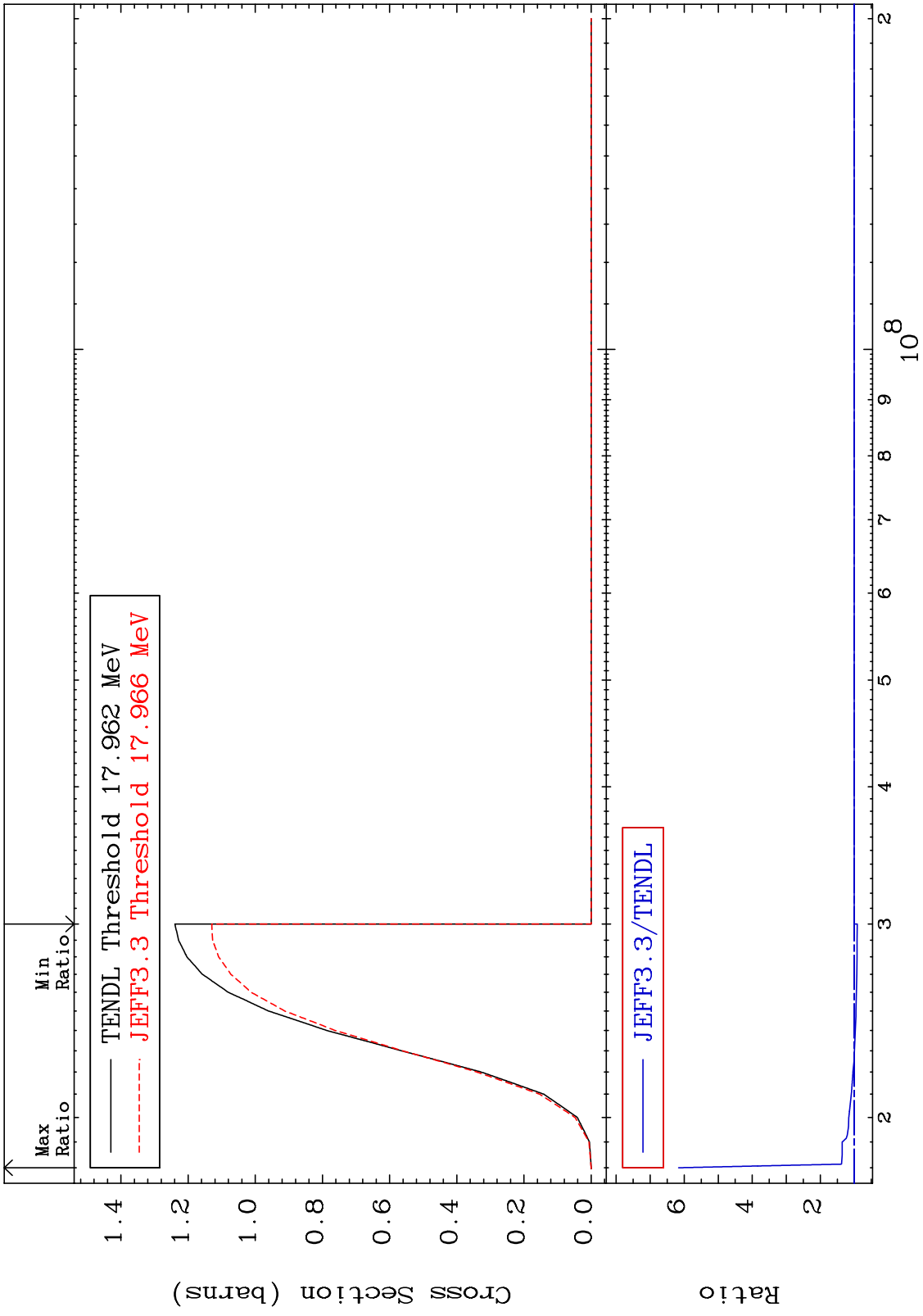
MAT 6025

(n,3n)

60-Nd-142

Cross Section

-8.878 To 516.4 %



6

Incident Energy (eV)

60-Nd-142

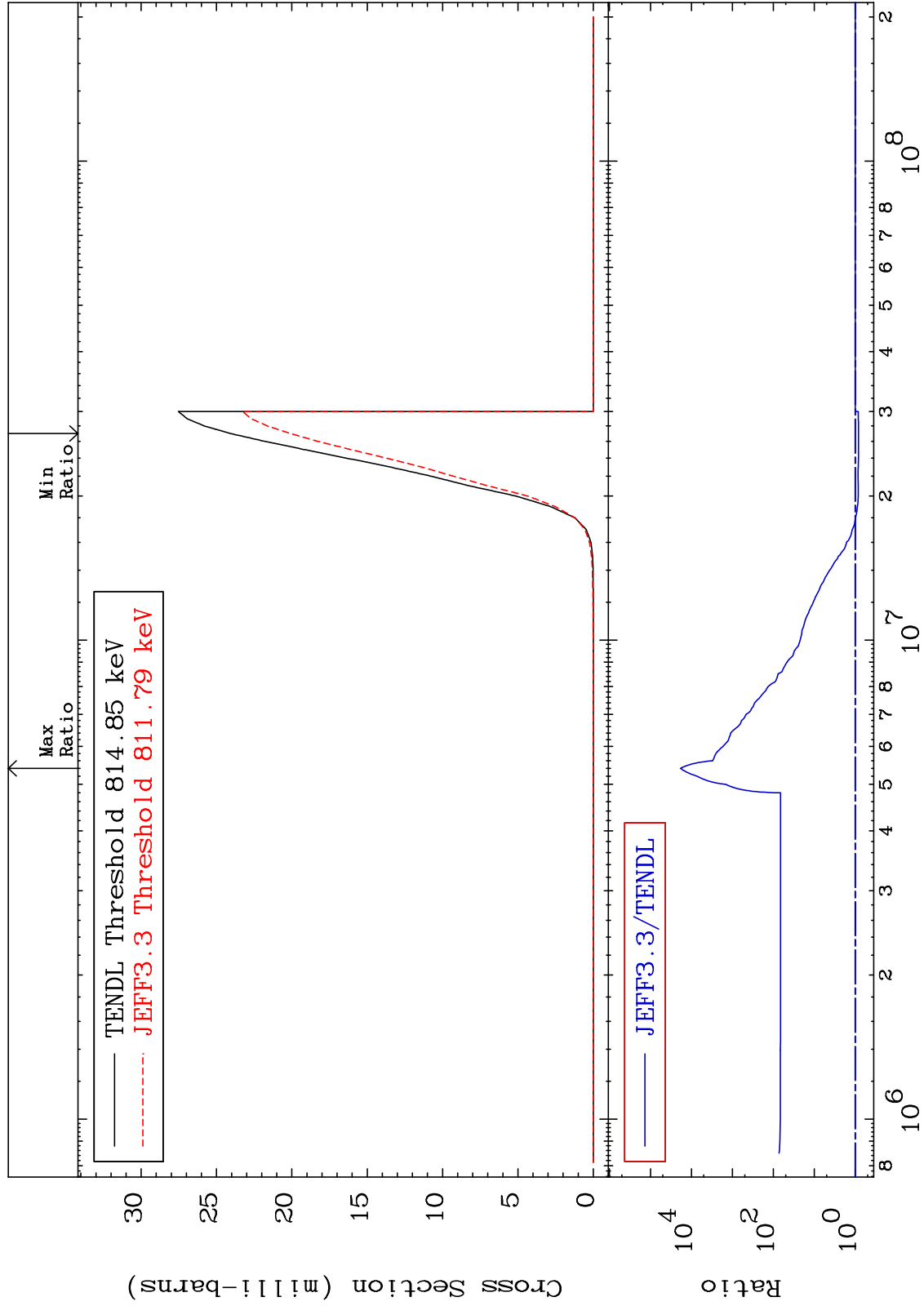
MAT 6025

(n, n') α

60-Nd-142

-16.56 To 9999. %

Cross Section

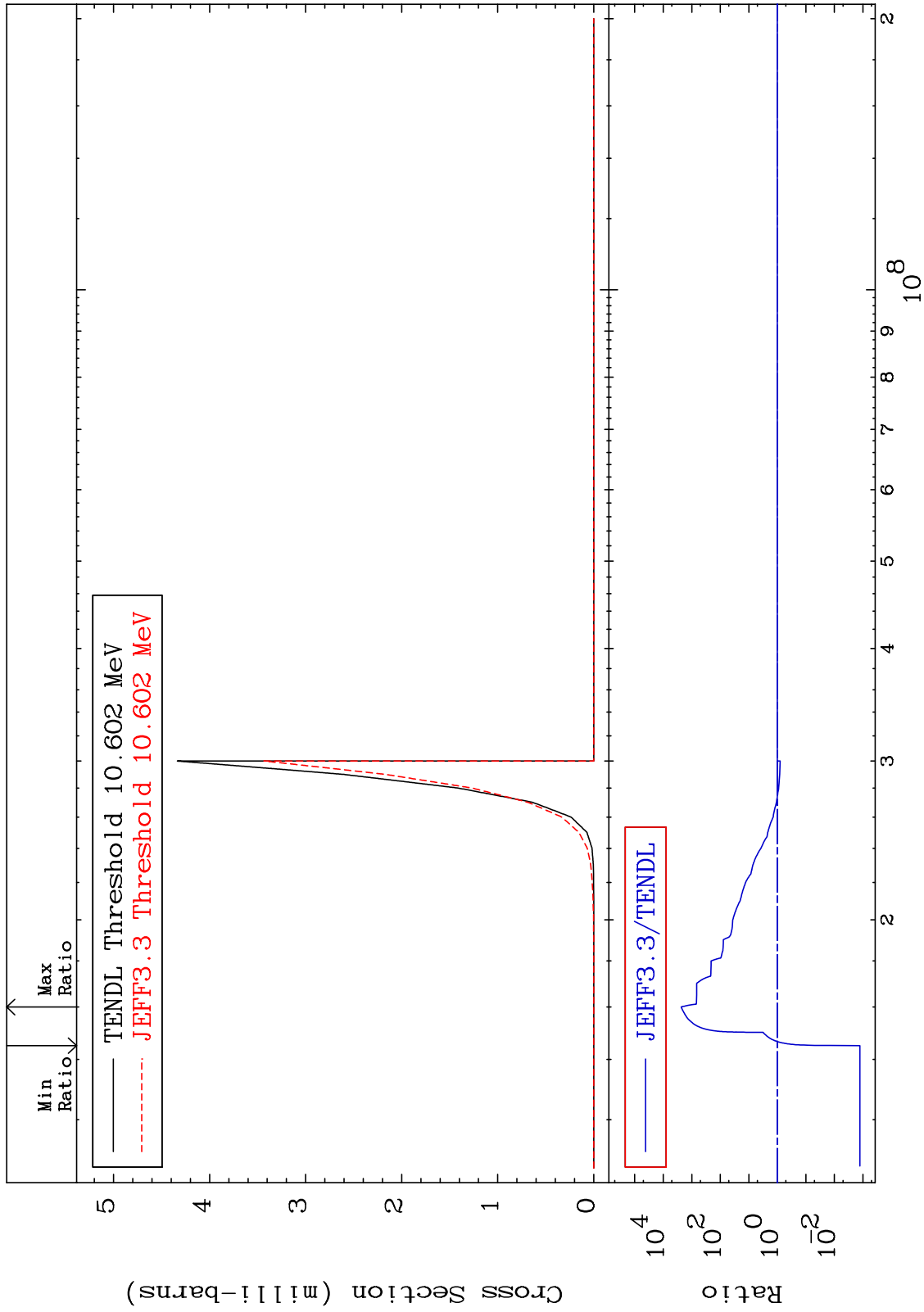


7

Incident Energy (eV)

60-Nd-142

MAT 6025 $(n, 2n) \alpha$ 60-Nd-142
 Cross Section -99.87 To 9999. %



60-Nd-142

Incident Energy (eV)

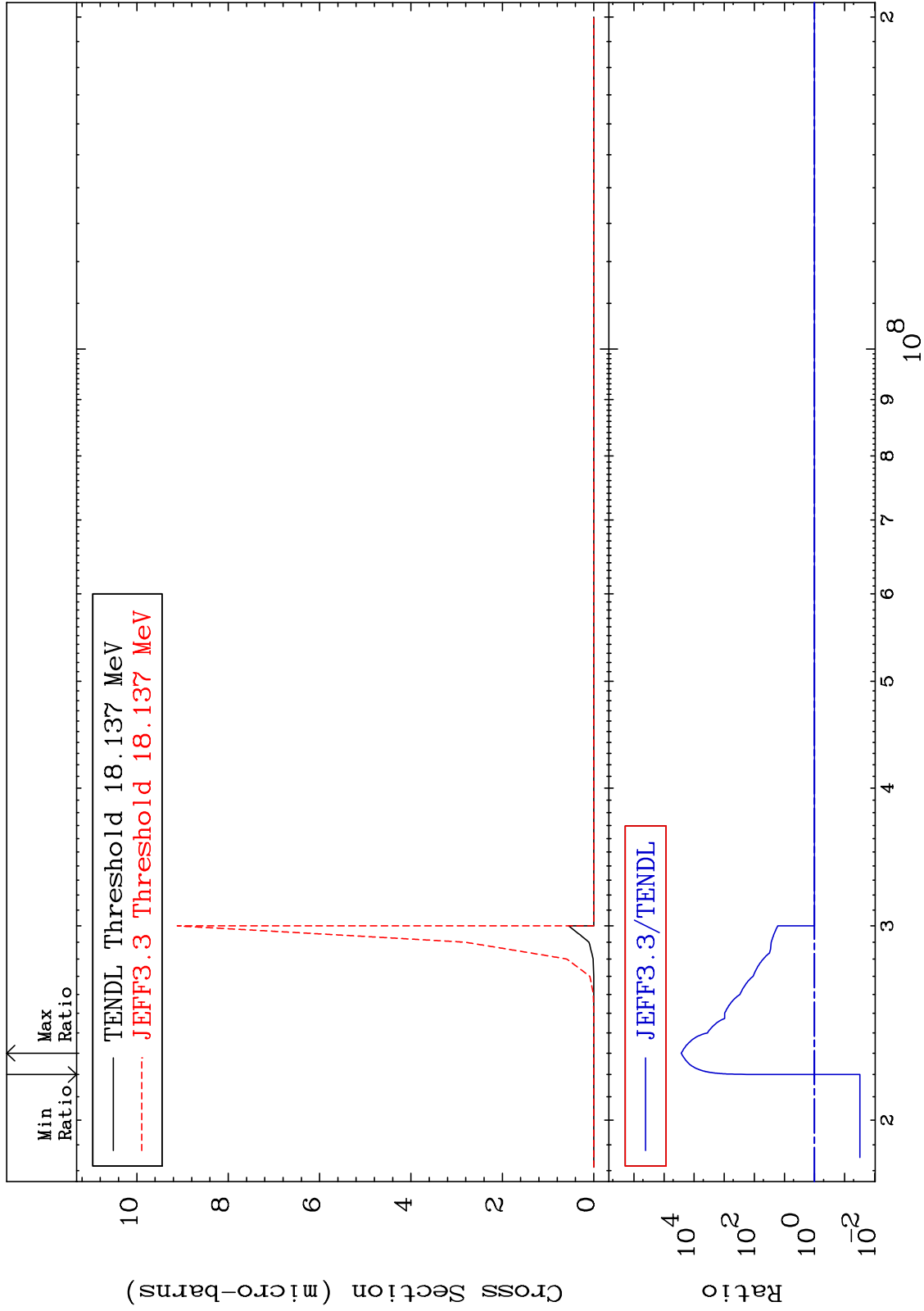
MAT 6025

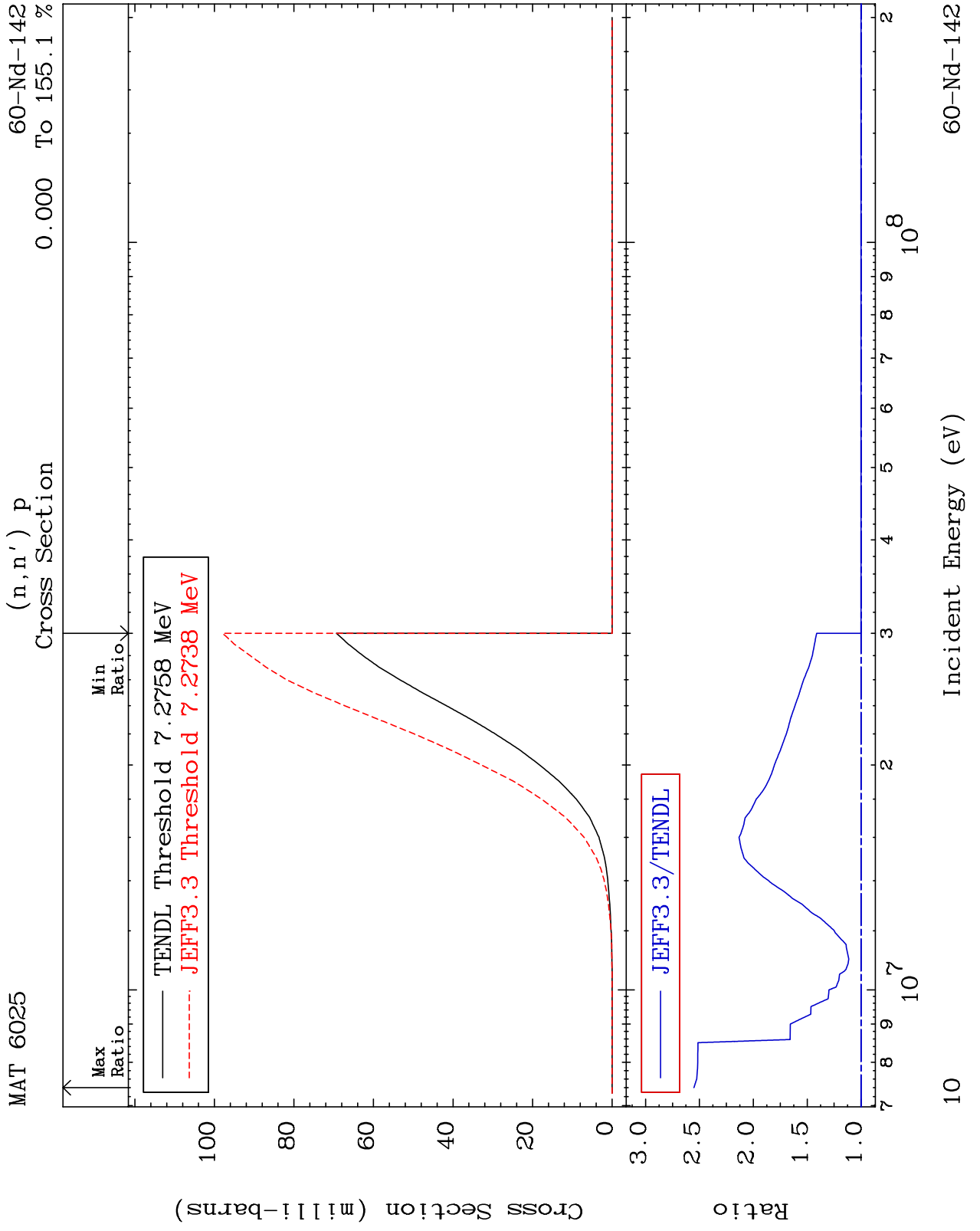
(n,3n) α

60-Nd-142

Cross Section

-96.91 To 9999. %

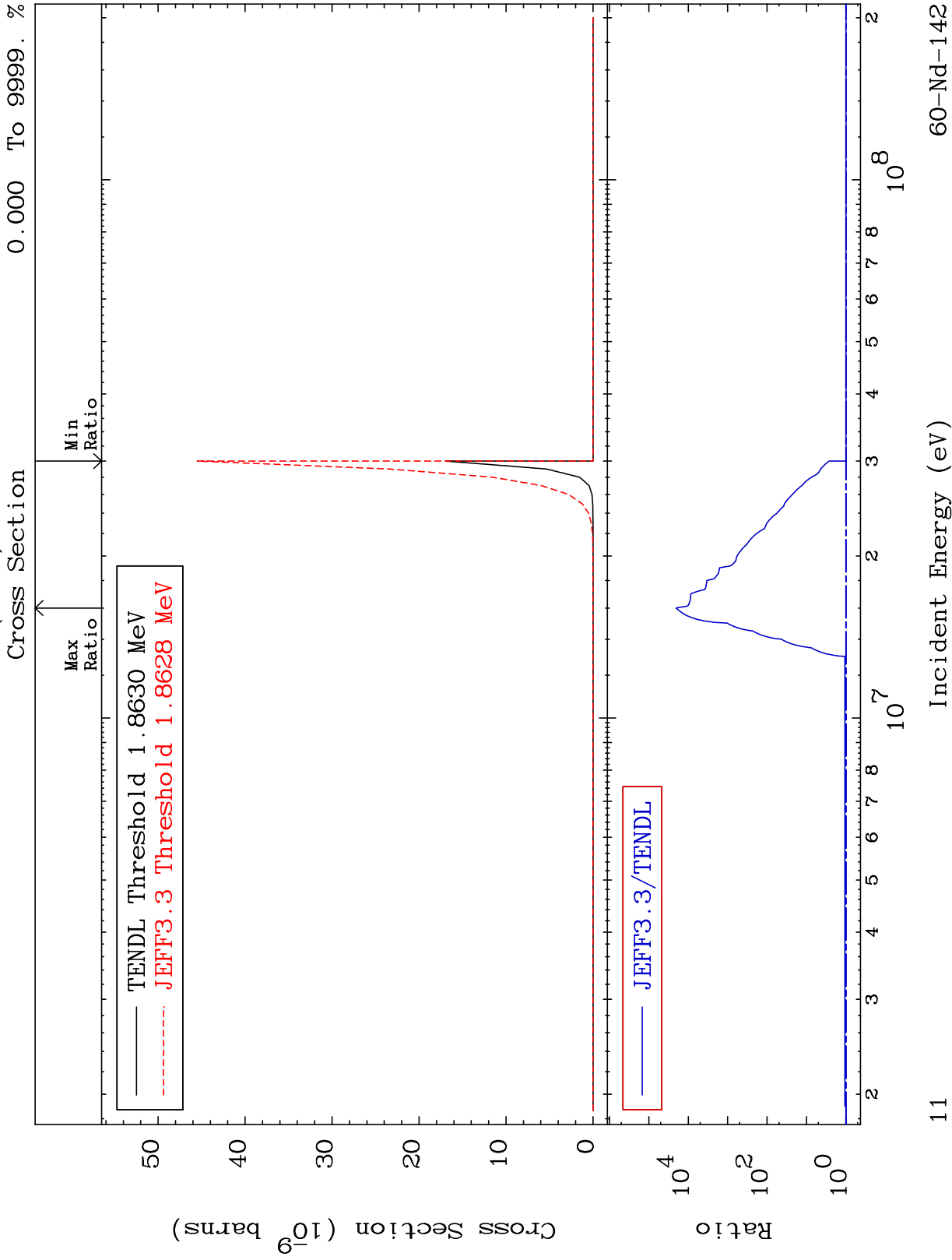




MAT 6025

(n, n') 2α

60-Nd-142
To 9999. %
0.000



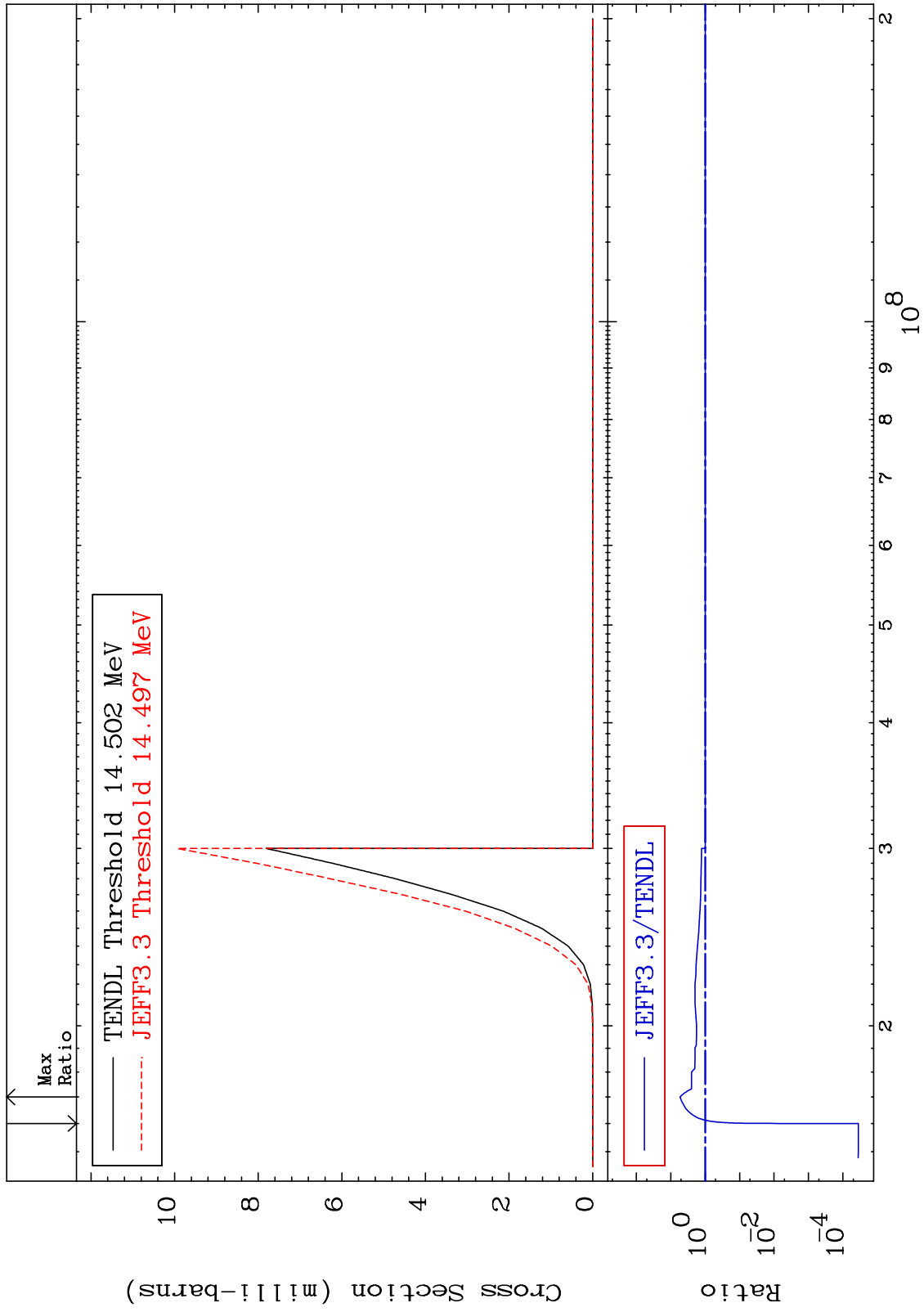
MAT 6025

(n, n') d

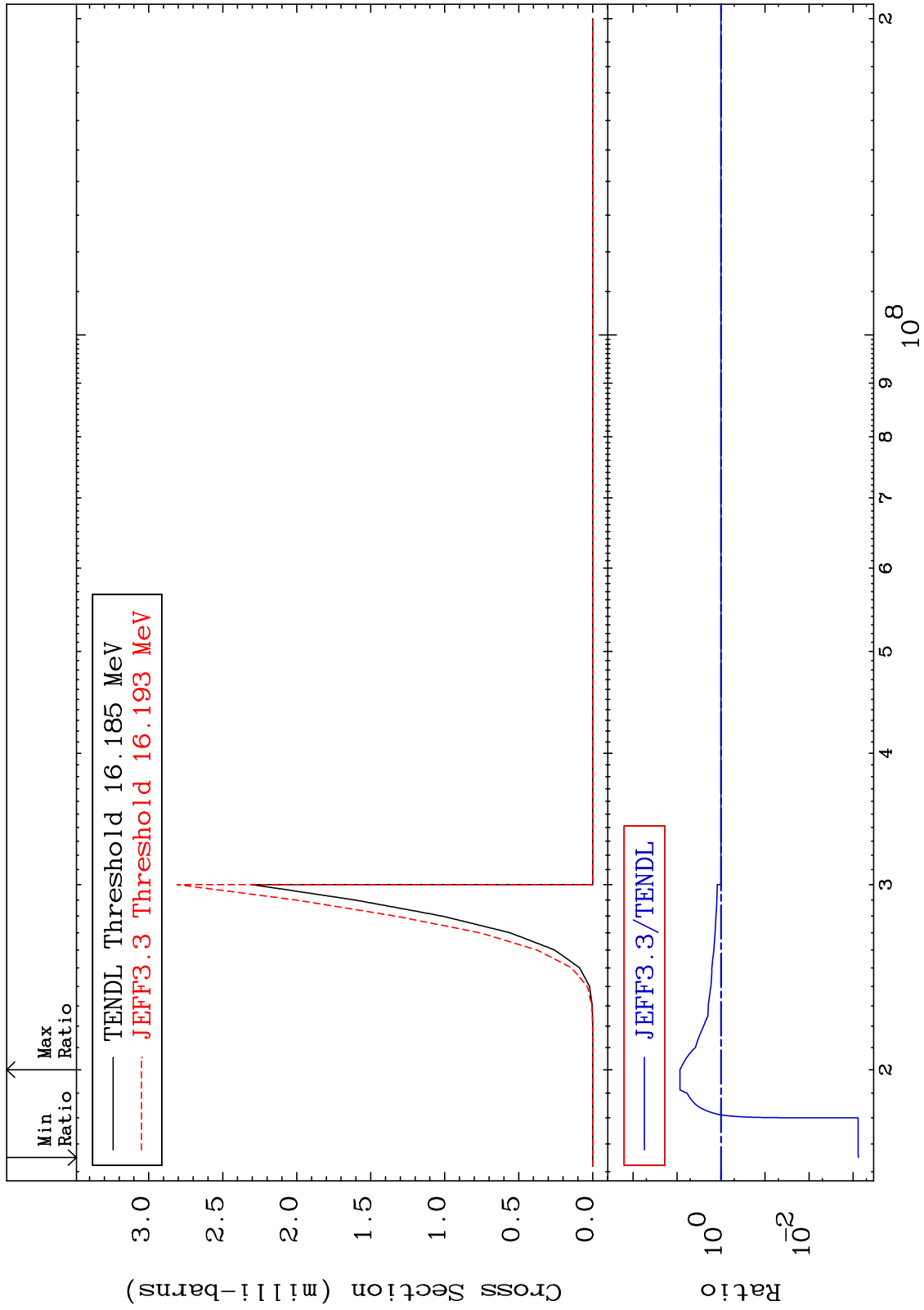
60-Nd-142

Cross Section

-100.0 To 438.9 %



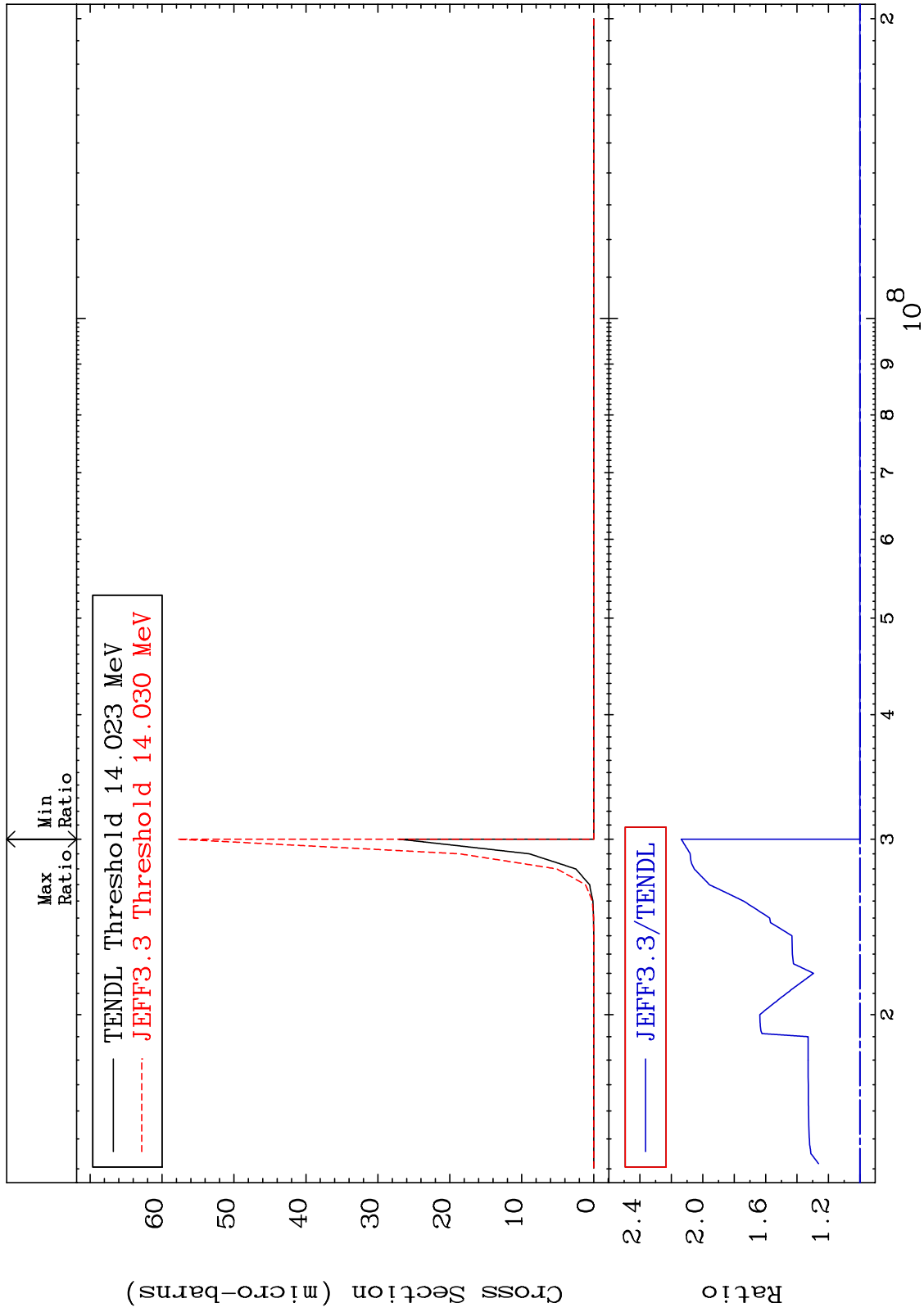
MAT 6025 $(n, n') t$ 60-Nd-142
 Cross Section -99.92 To 755.9 %

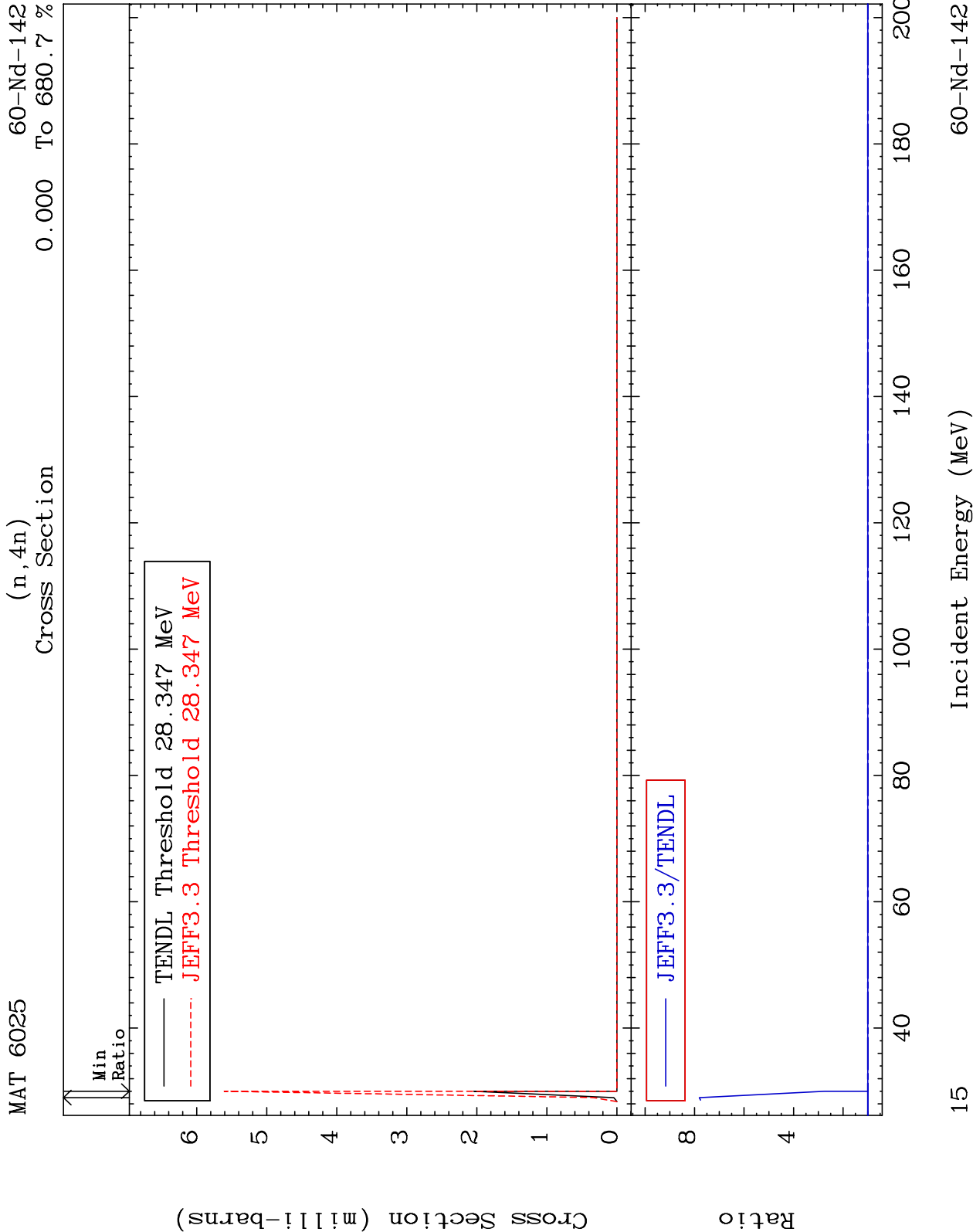


MAT 6025

(n, n') He-3
Cross Section

60-Nd-142
To 113.7 %
0.000

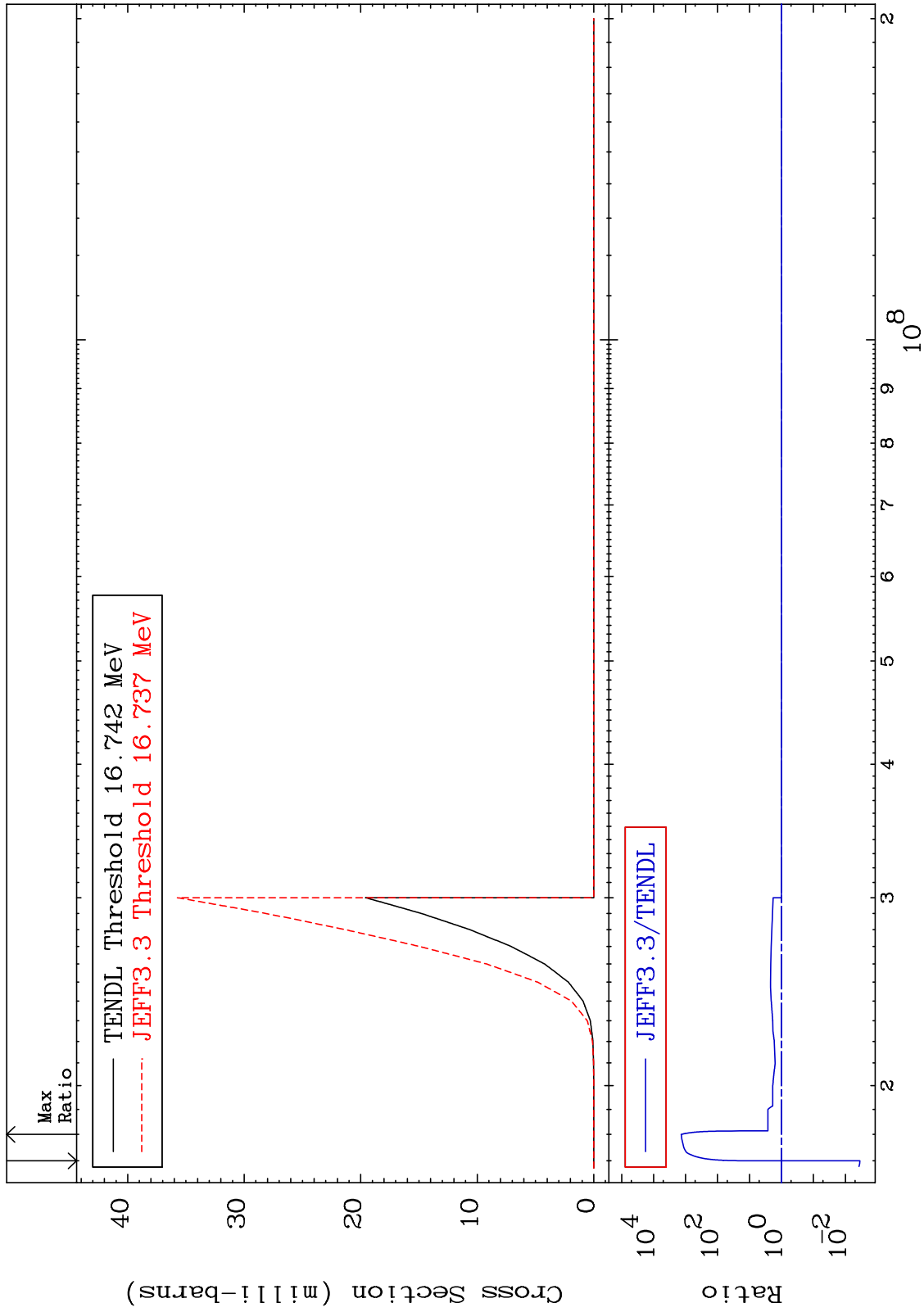




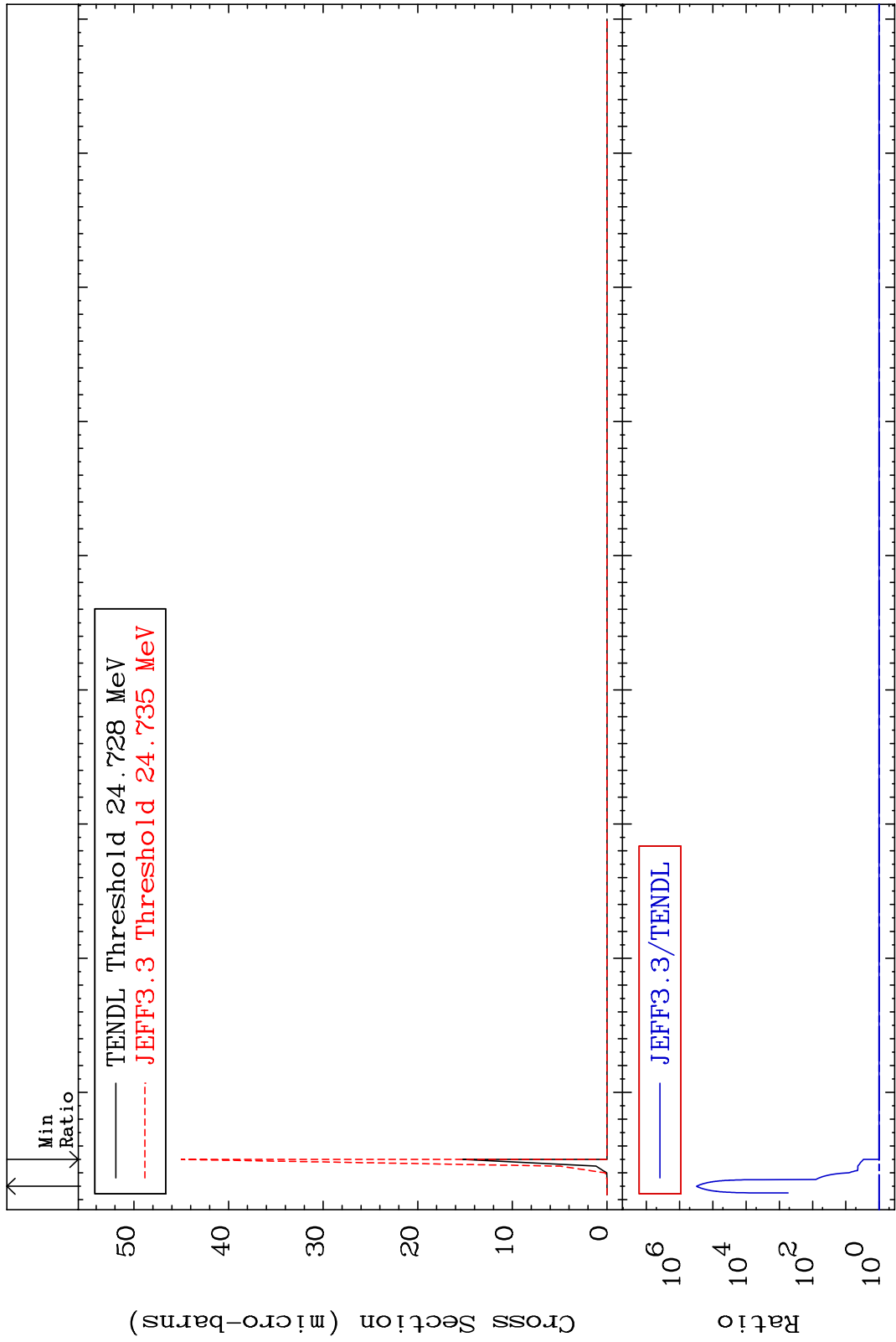
MAT 6025

(n,2n) p
Cross Section

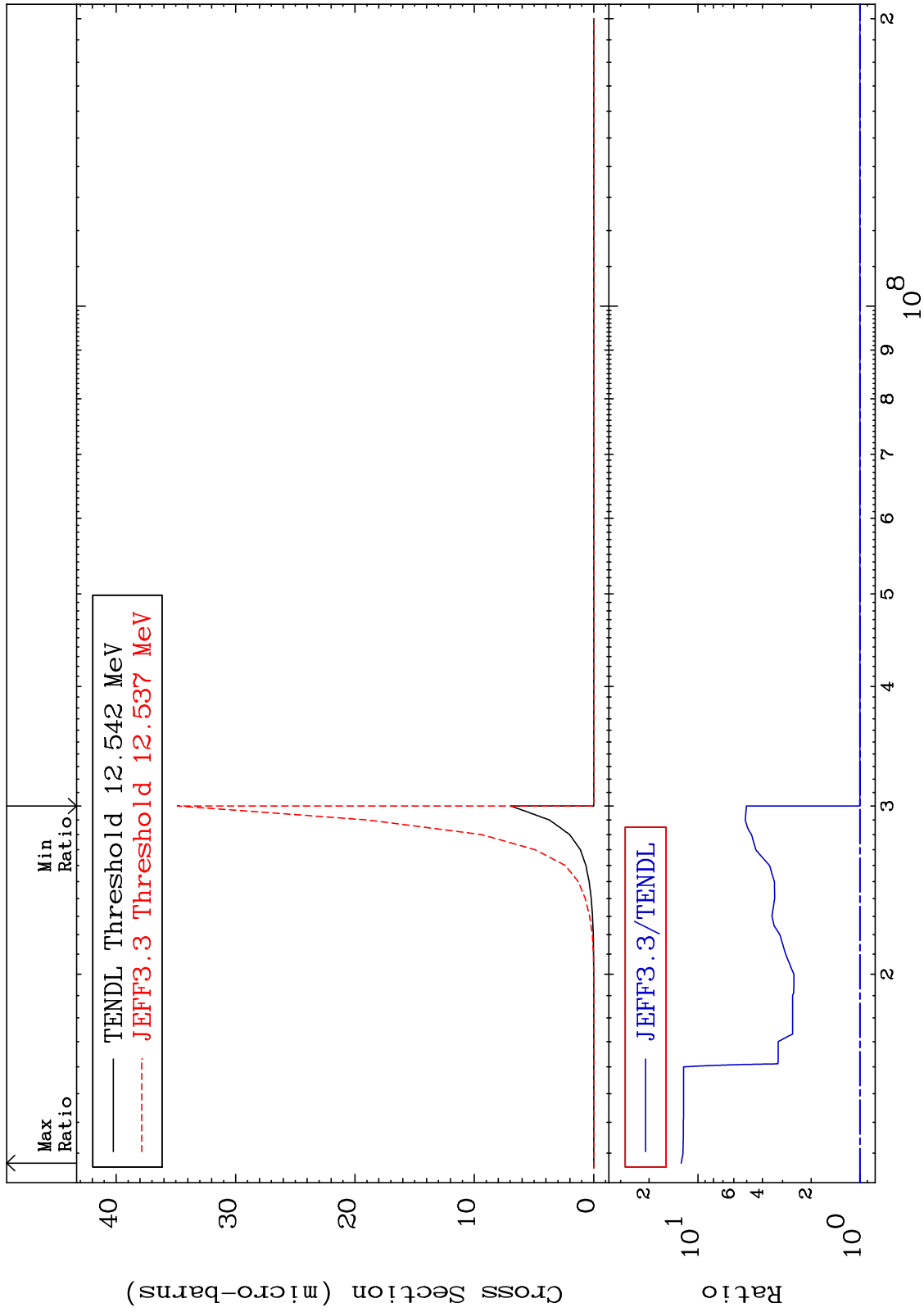
60-Nd-142
-99.65 To 9999. %



MAT 6025 (n,3n) p 60-Nd-142
 Cross Section 0.000 To 9999. %



MAT 6025 (n,2n) p 60-Nd-142
 Cross Section 0.000 To 1167. %



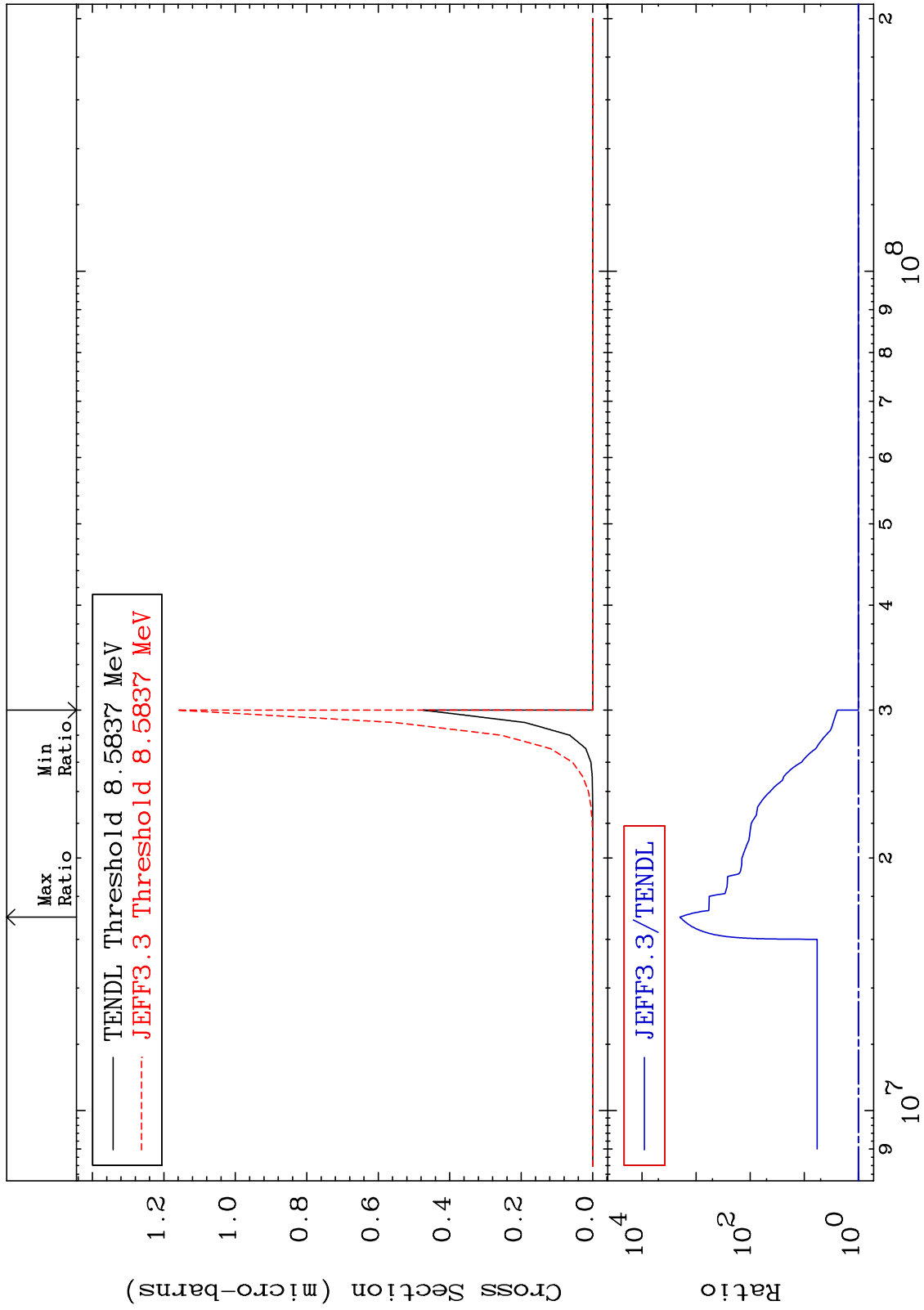
60-Nd-142

Incident Energy (eV)

MAT 6025

(n,n') p α
Cross Section

60-Nd-142
To 9999. %
0.000



60-Nd-142

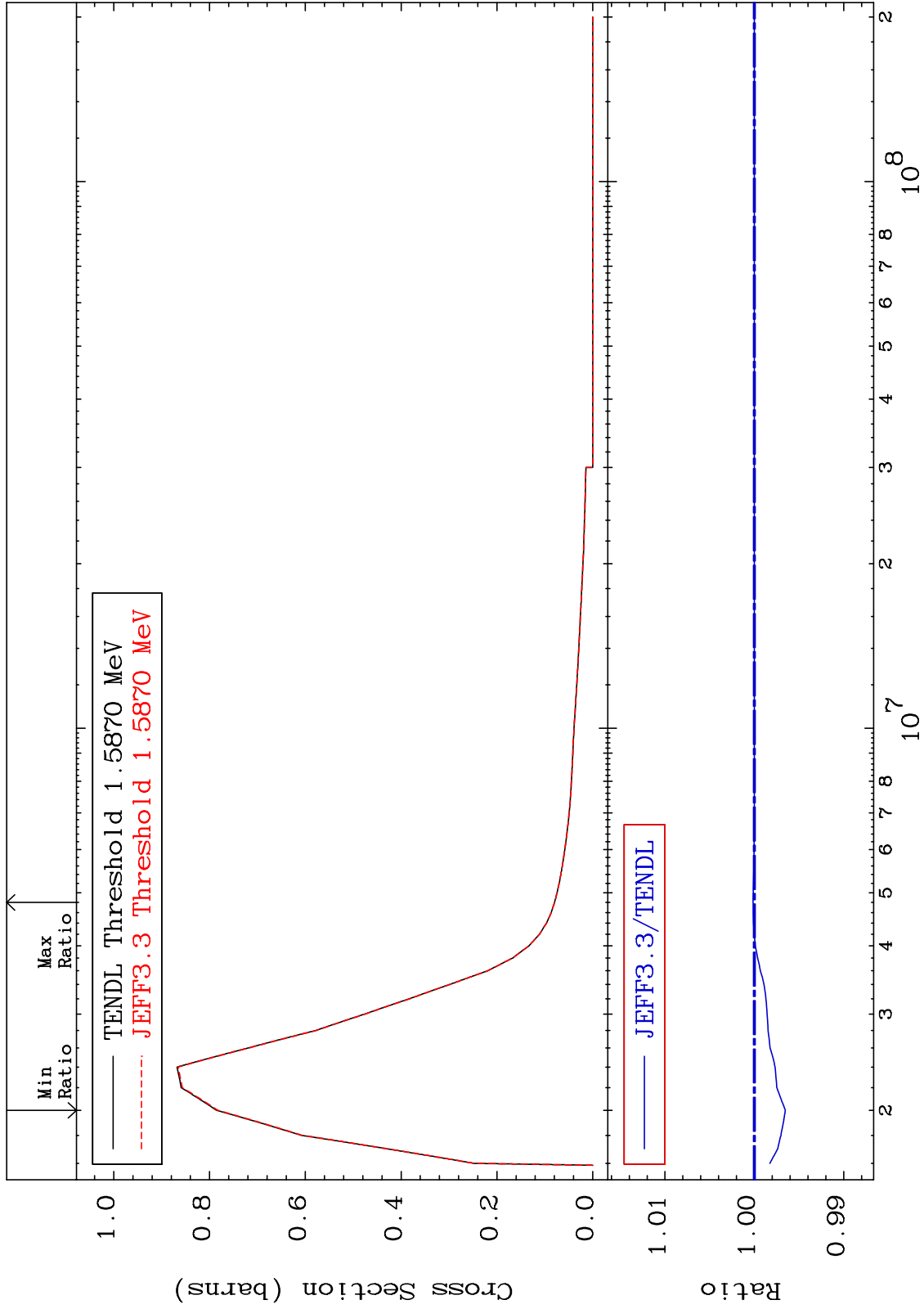
Incident Energy (eV)

19

MAT 6025

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

60-Nd-142
-0.347 To 0.014 %



20

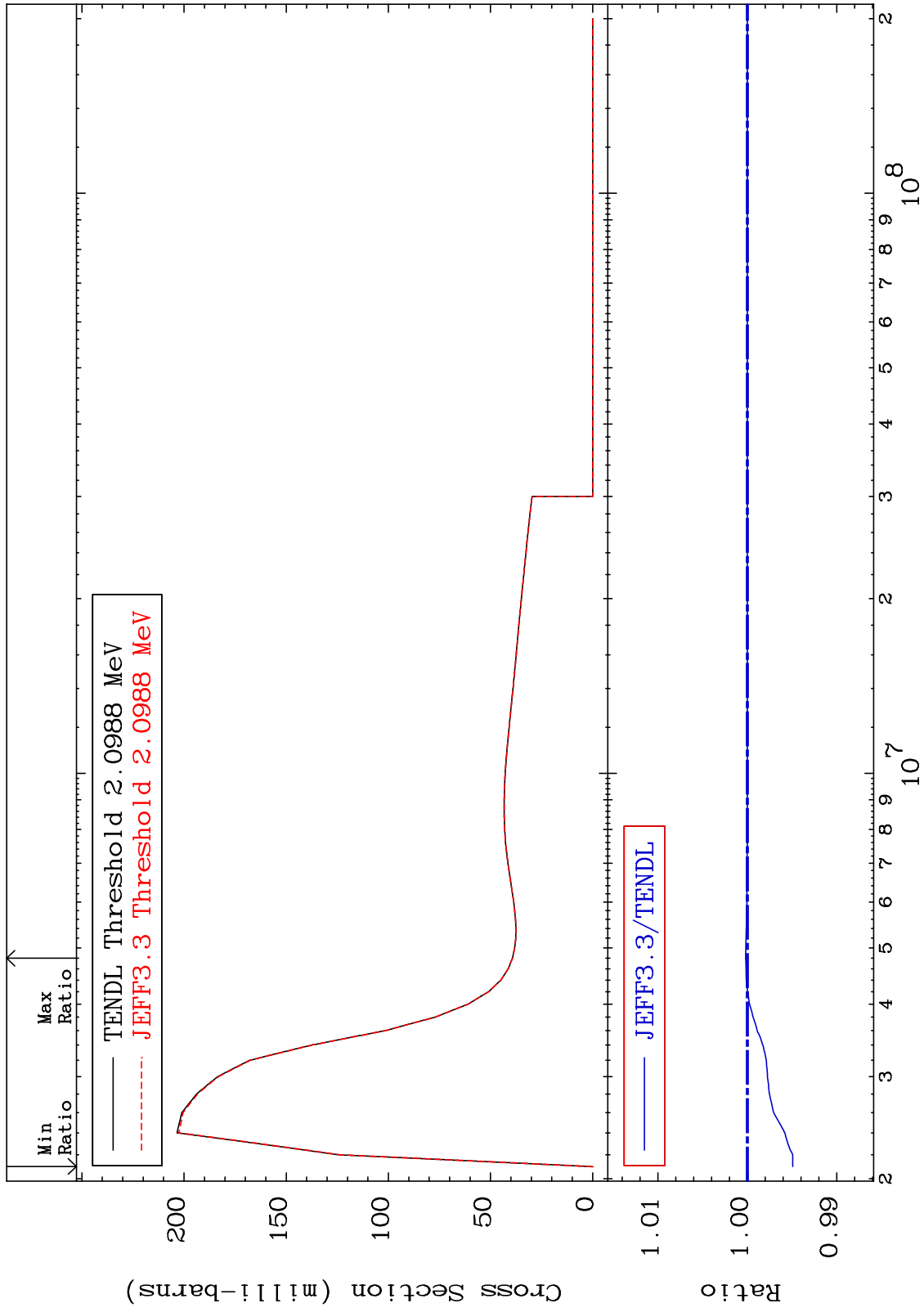
Incident Energy (eV)

60-Nd-142

MAT 6025

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

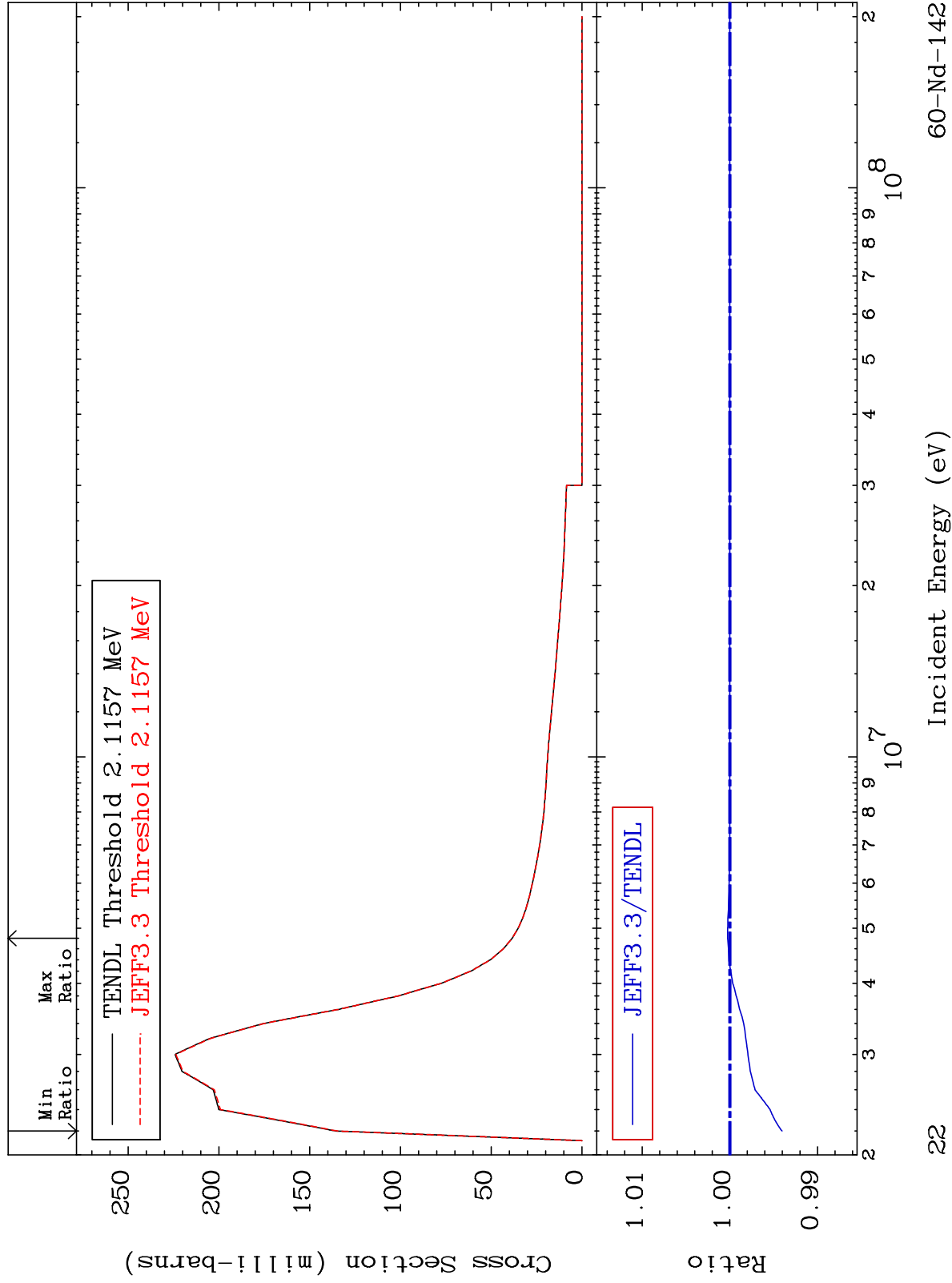
60-Nd-142
-0.509 To 0.018 %



MAT 6025

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

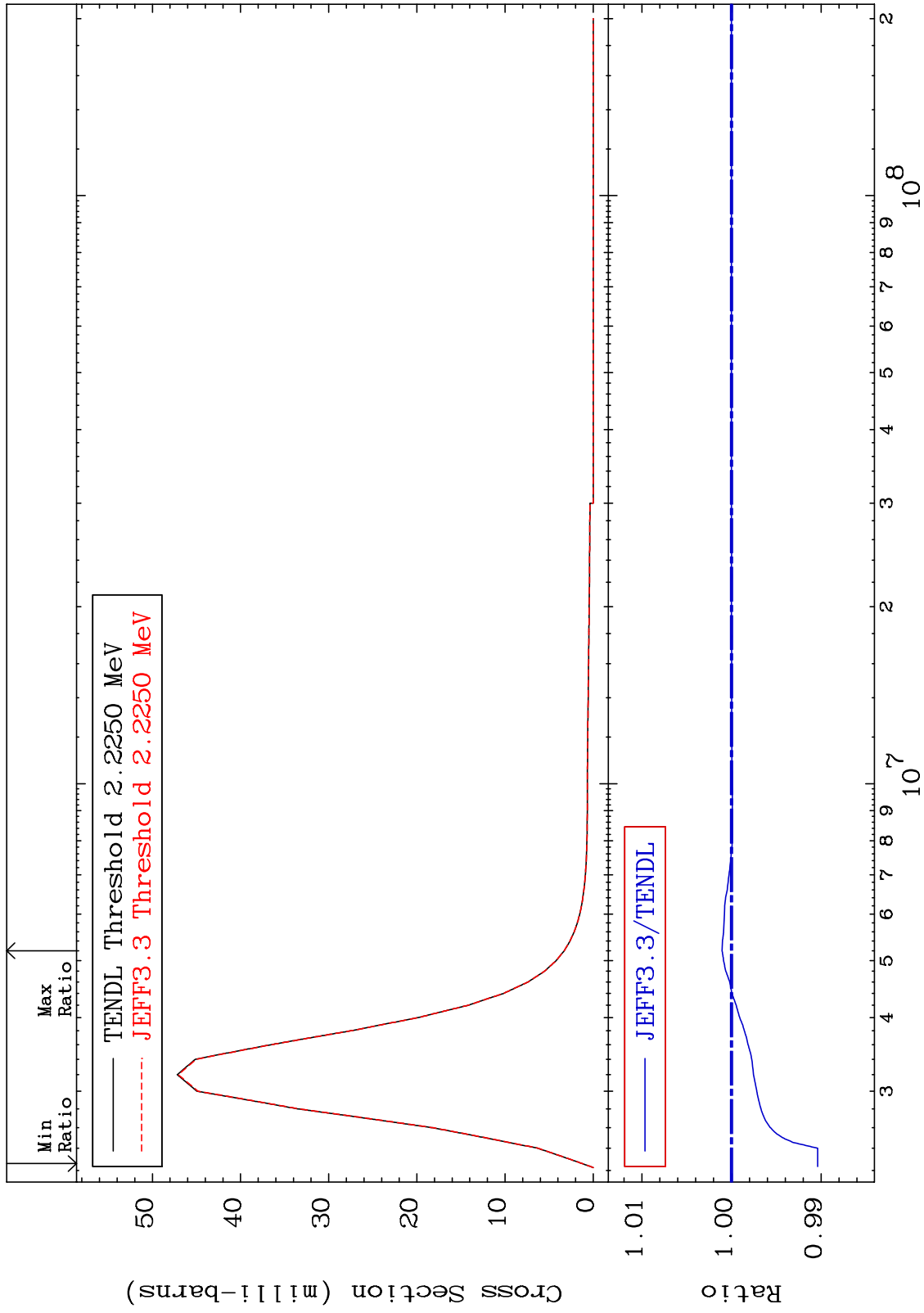
60-Nd-142
-0.595 To 0.026 %

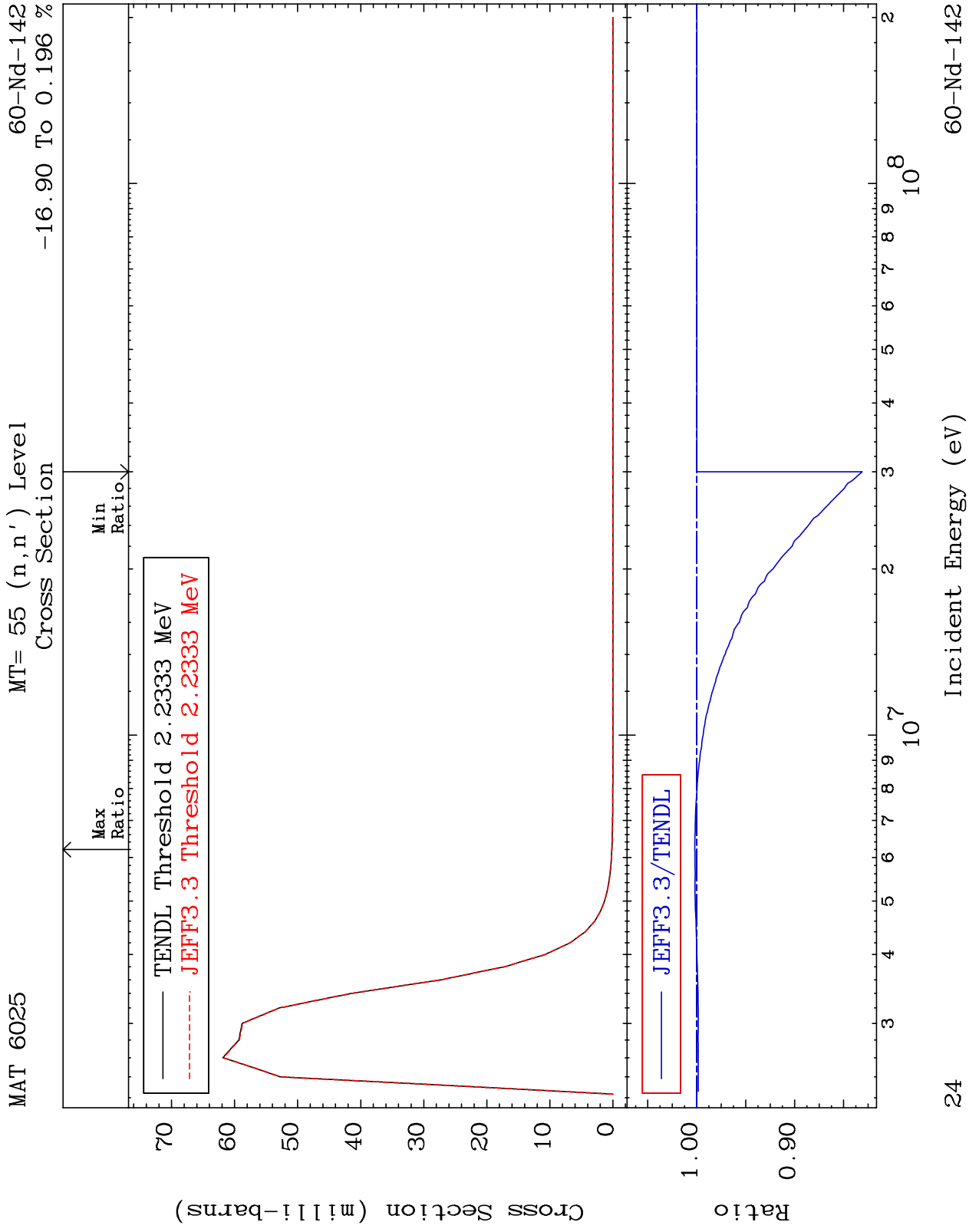


MAT 6025

MT= 54 (n,n') Level
Cross Section

60-Nd-142
-0.961 To 0.106 %

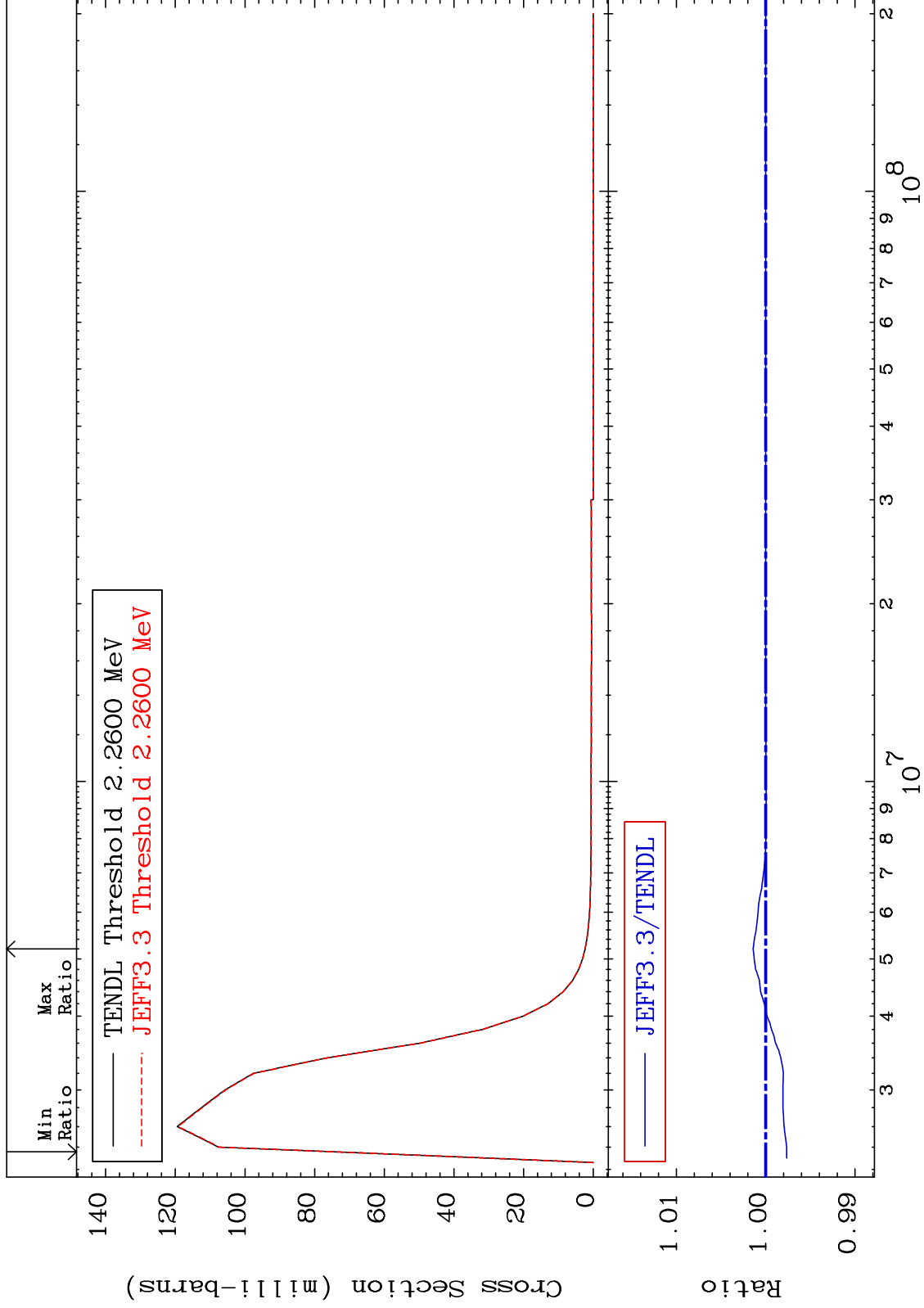




MAT 6025

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

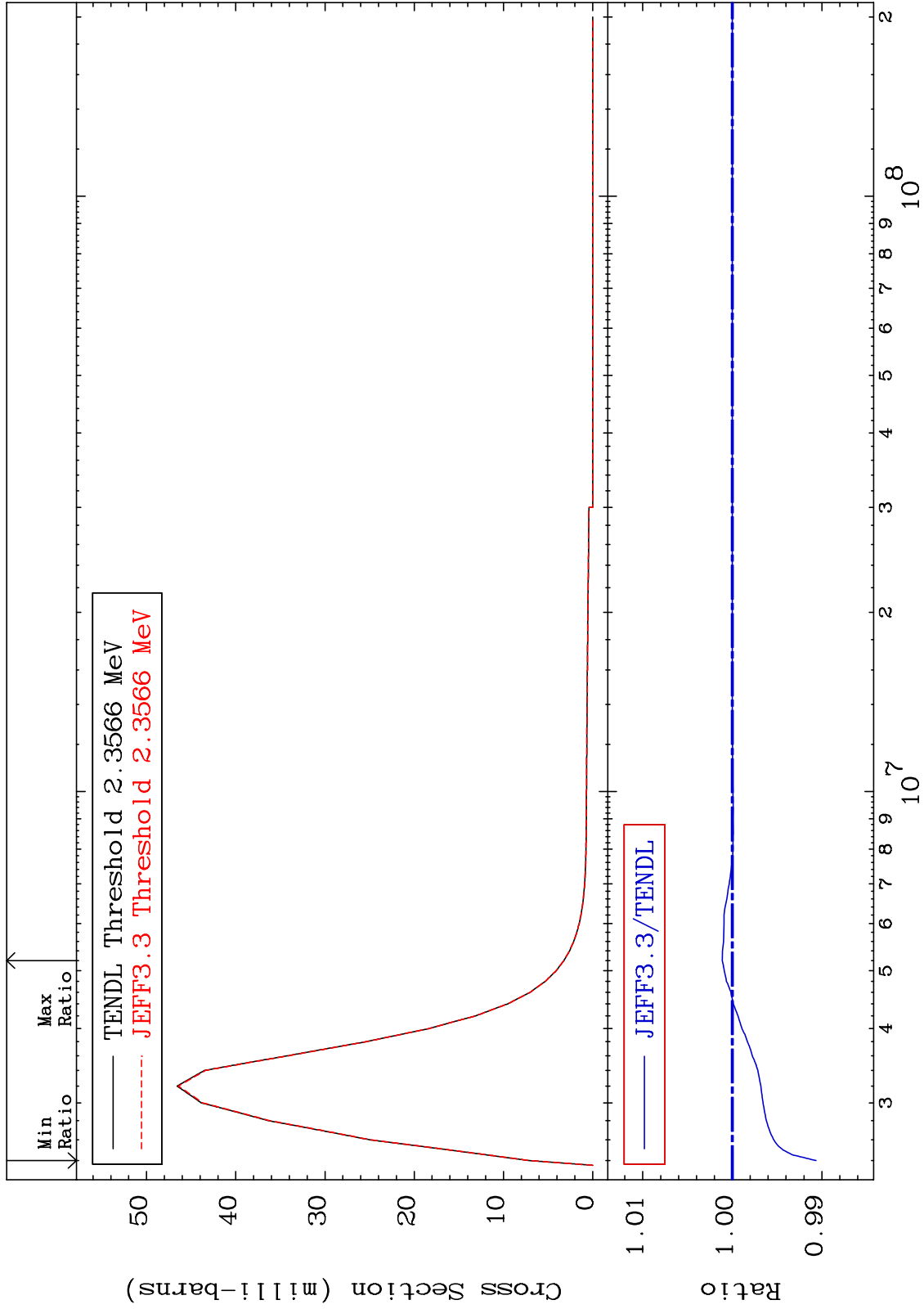
60-Nd-142
-0.234 To 0.141 %



MAT 6025

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

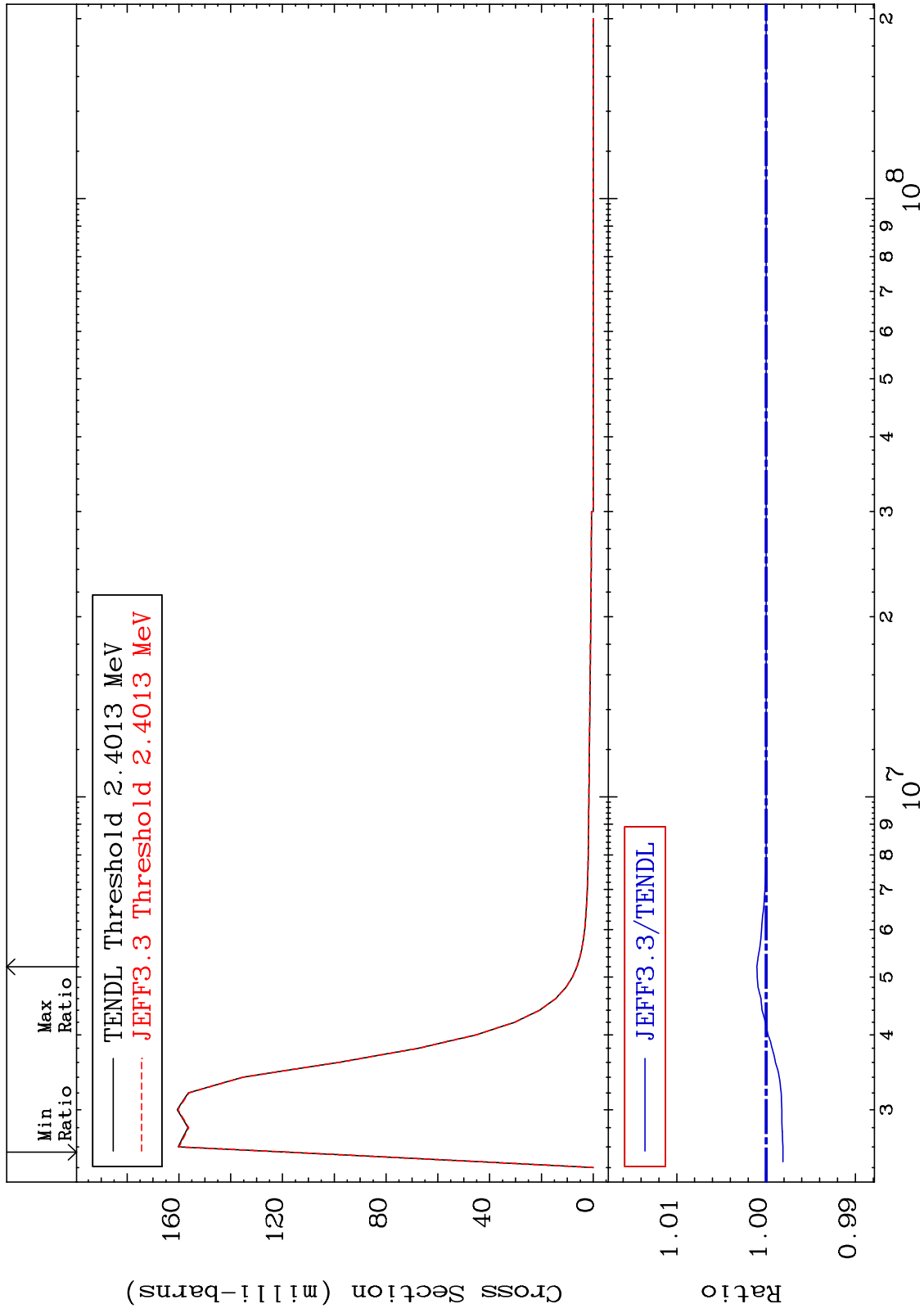
60-Nd-142
-0.936 To 0.112 %



MAT 6025

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

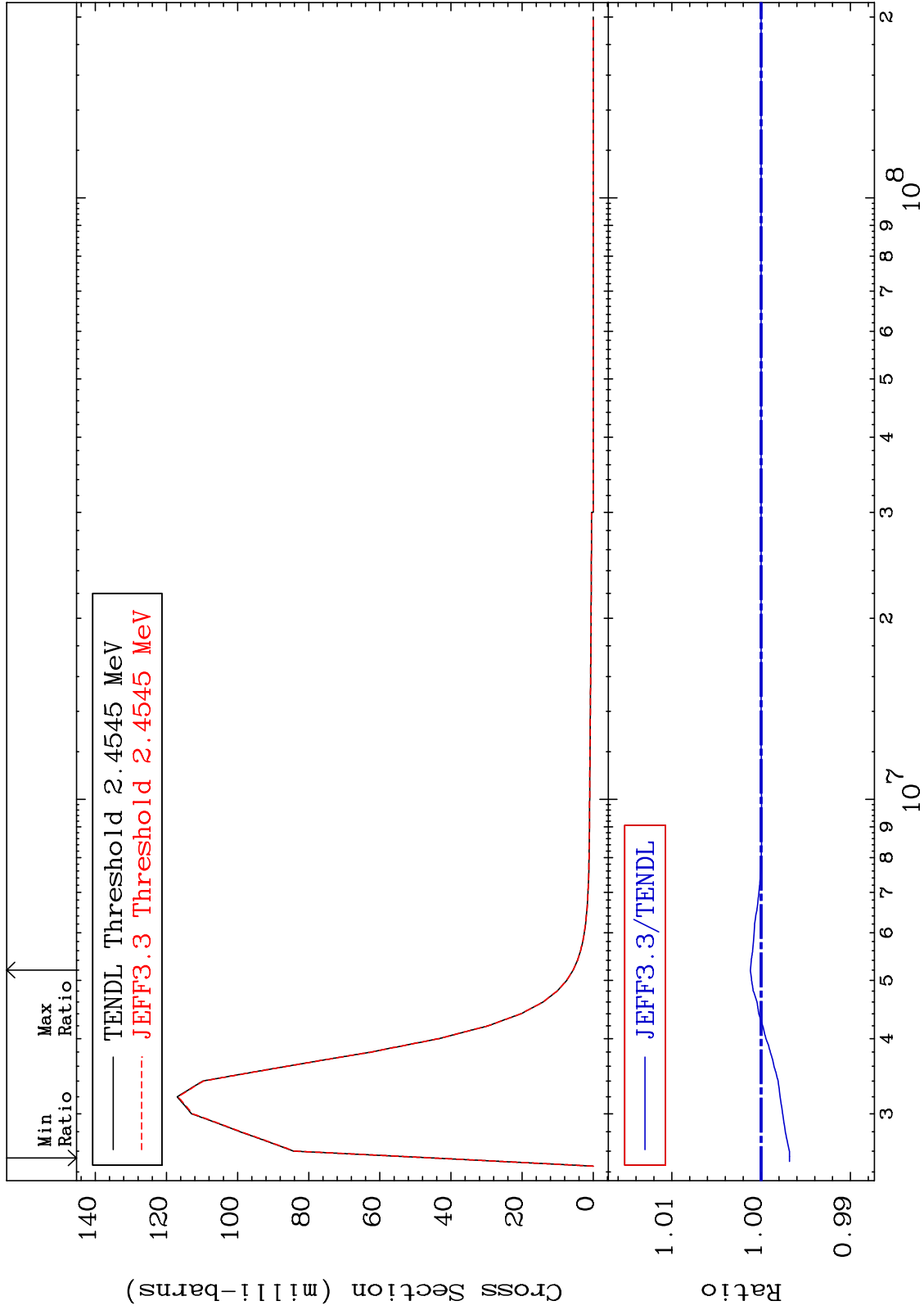
60-Nd-142
-0.189 To 0.104 %



MAT 6025

MT= 59 (n,n') Level
Cross Section

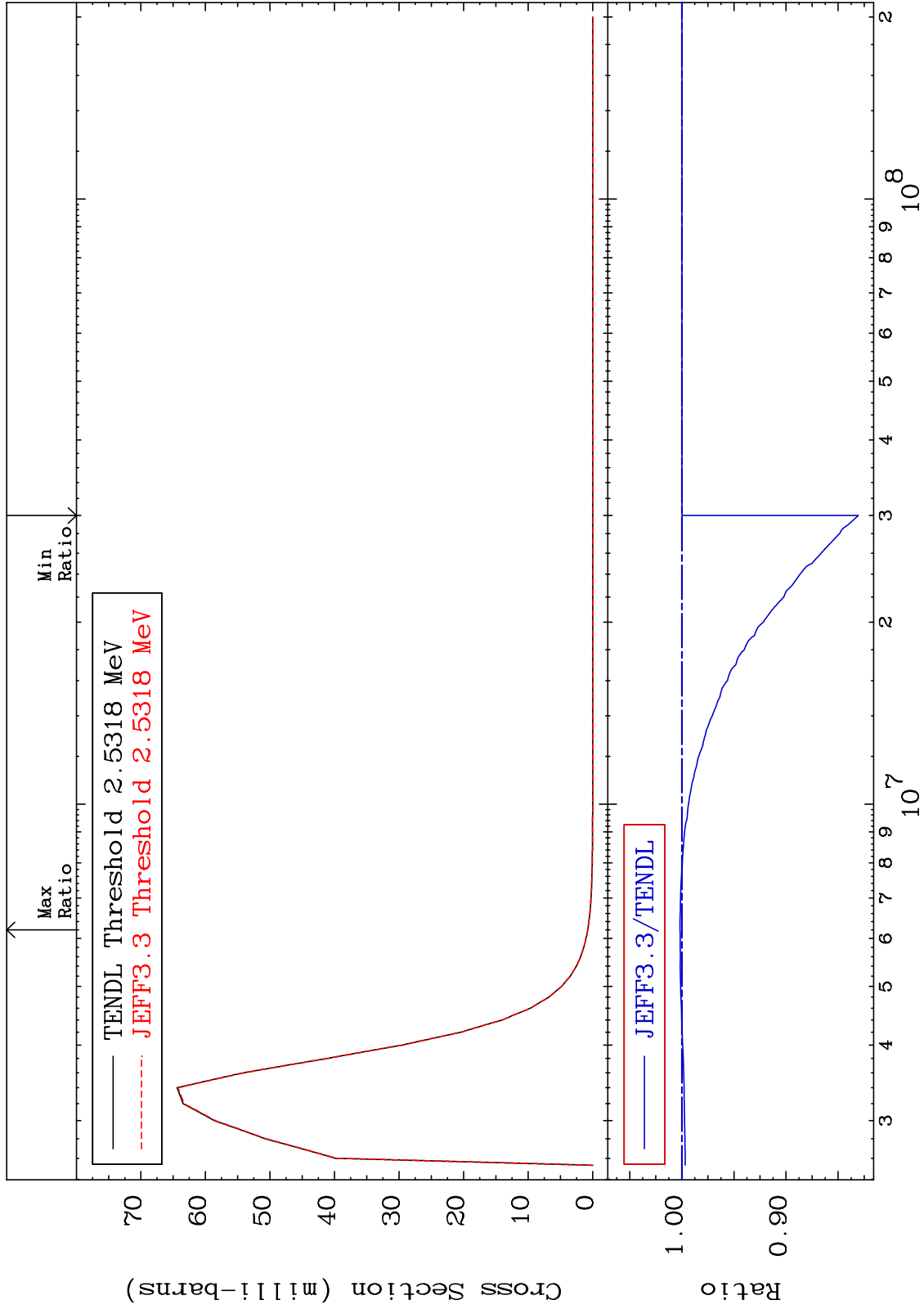
60-Nd-142
-0.317 To 0.120 %



MAT 6025

MT= 60 (n, n') Level
Cross Section

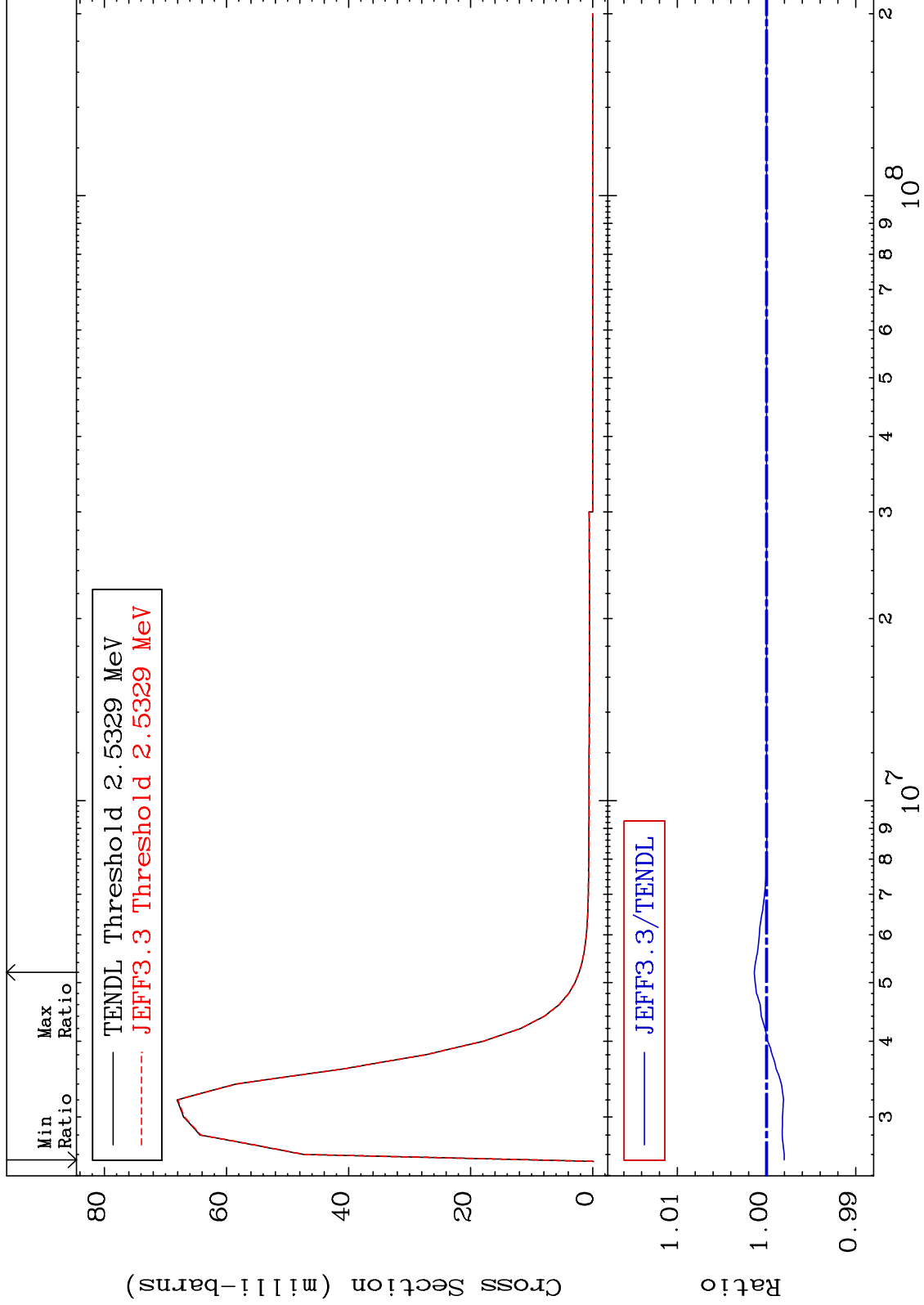
60-Nd-142
-16.94 To 0.173 %



MAT 6025

MT= 61 (n,n') Level
Cross Section

60-Nd-142
-0.198 To 0.138 %



30

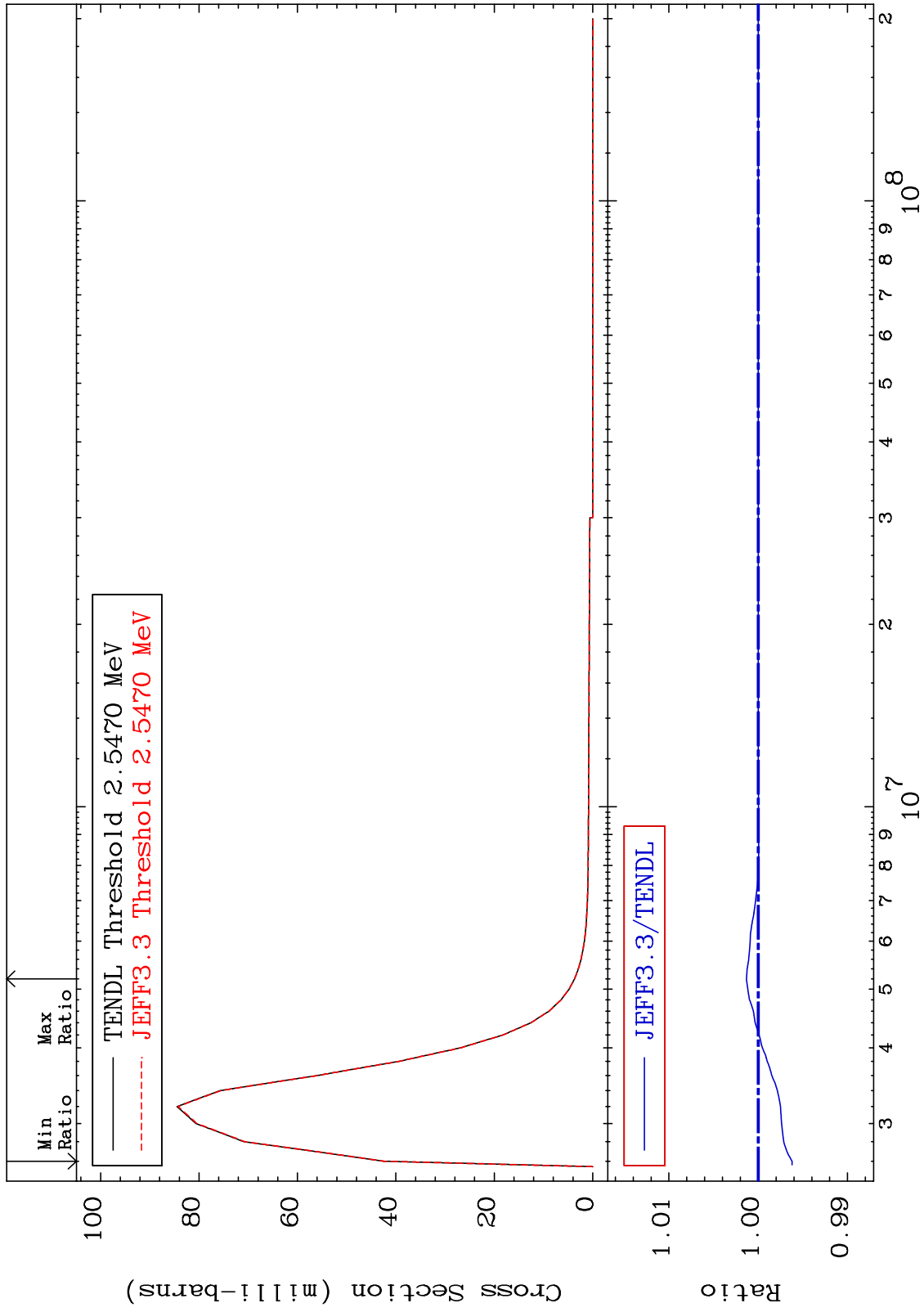
Incident Energy (eV)

60-Nd-142

MAT 6025

MT= 62 (n,n') Level
Cross Section

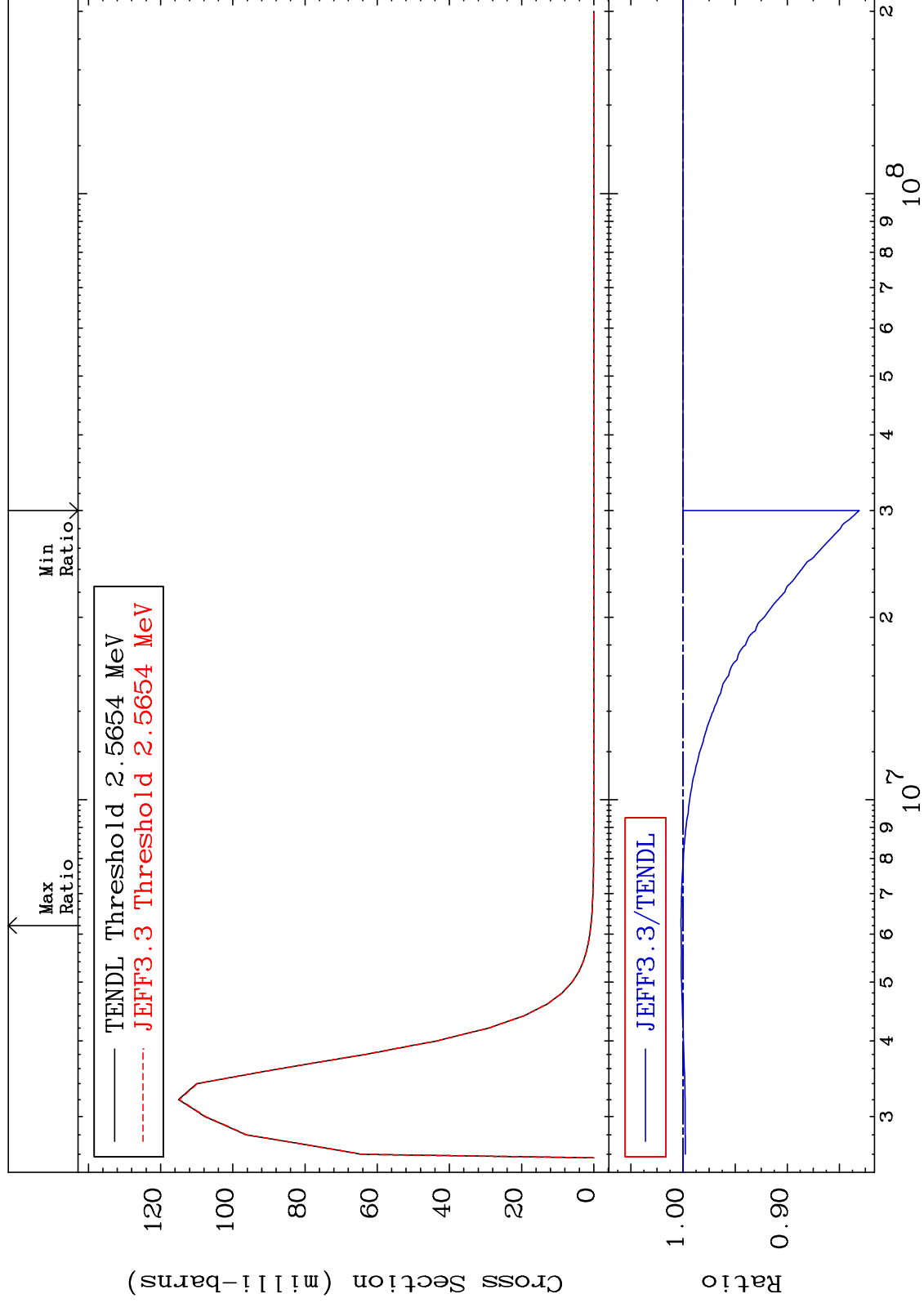
60-Nd-142
-0.378 To 0.133 %



MAT 6025

MT= 63 (n, n') Level
Cross Section

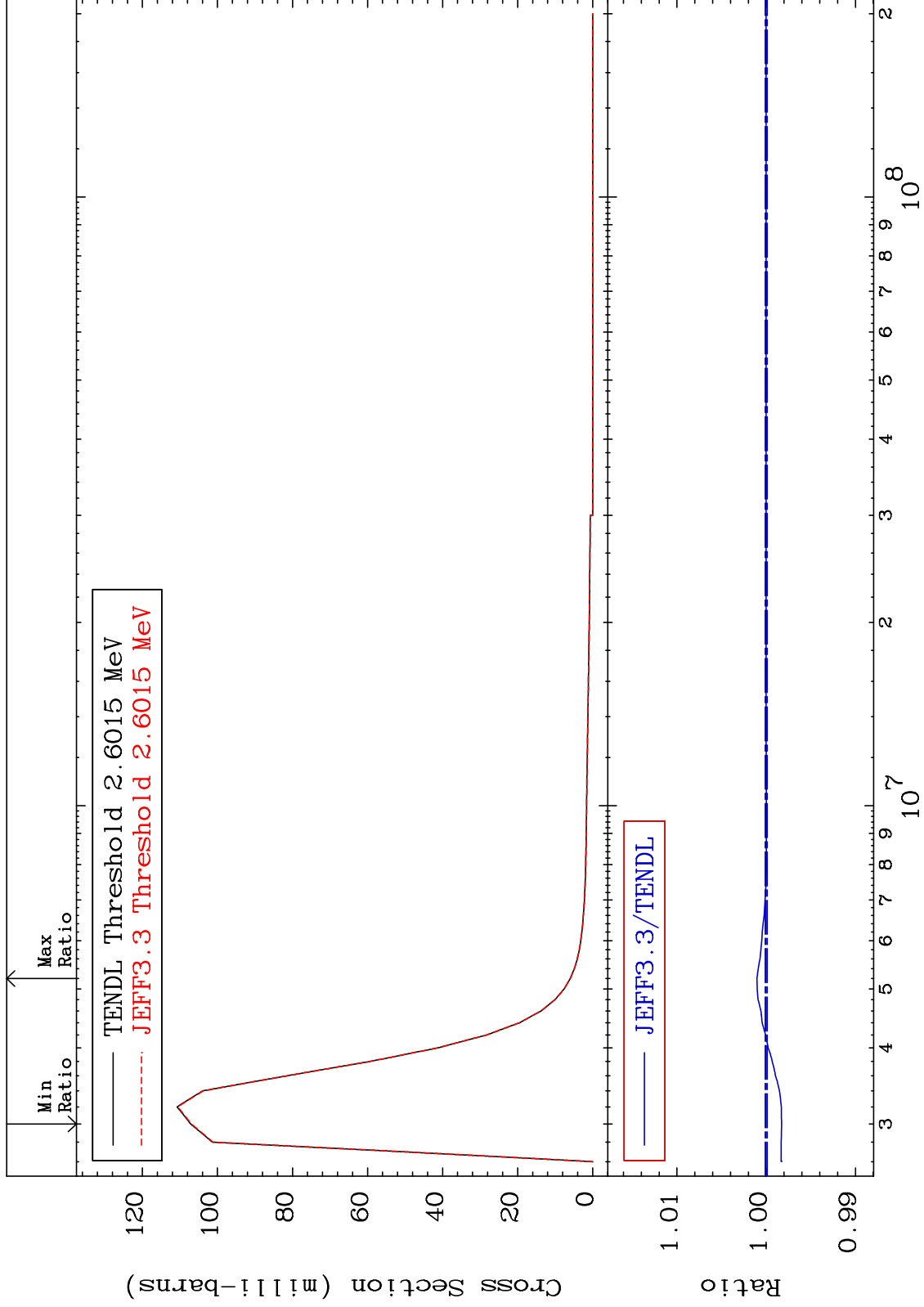
60-Nd-142
-16.91 To 0.189 %



MAT 6025

MT= 64 (n,n') Level
Cross Section

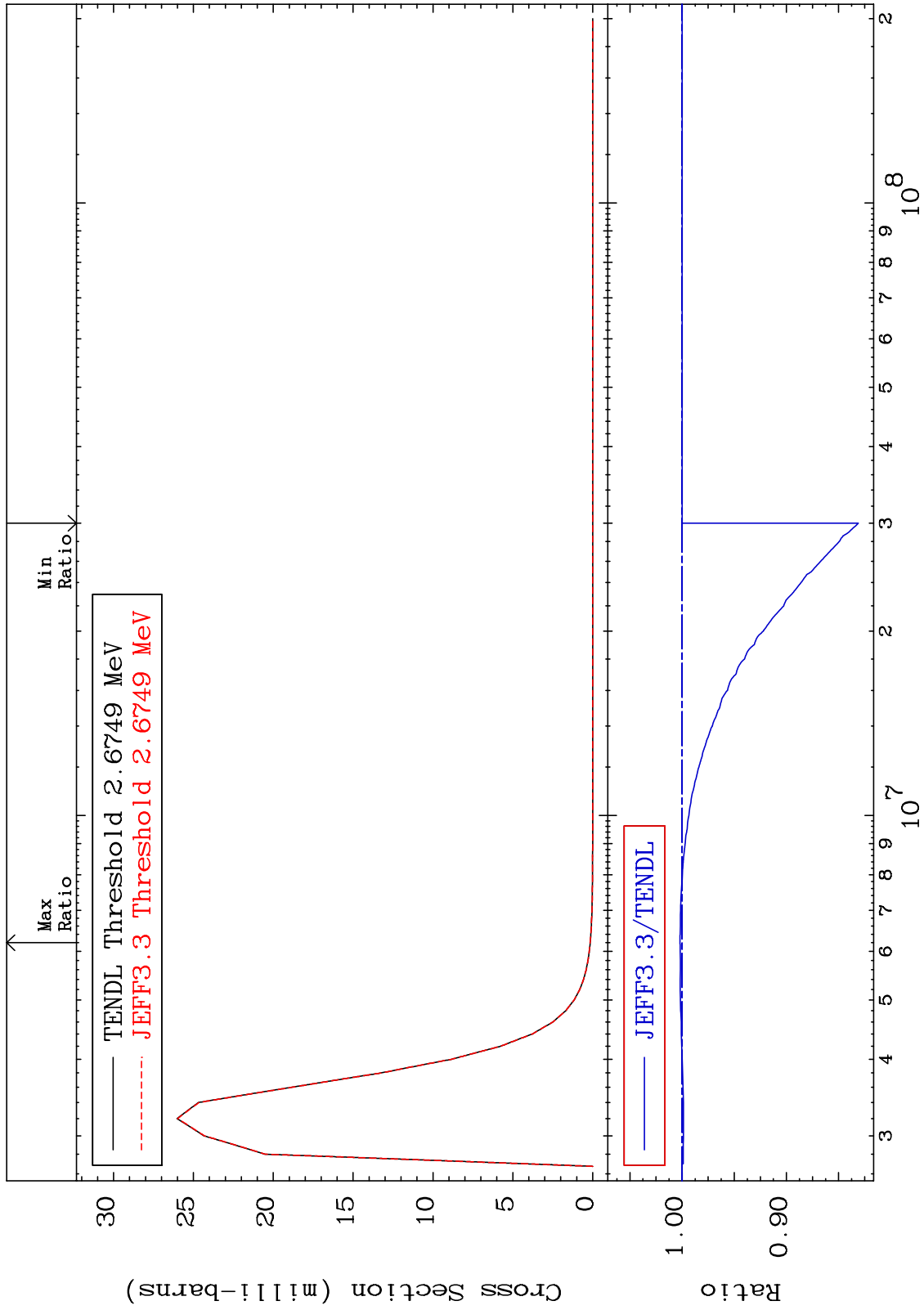
60-Nd-142
-0.172 To 0.104 %



MAT 6025

MT= 66 (n, n') Level
Cross Section

60-Nd-142
-16.90 To 0.197 %



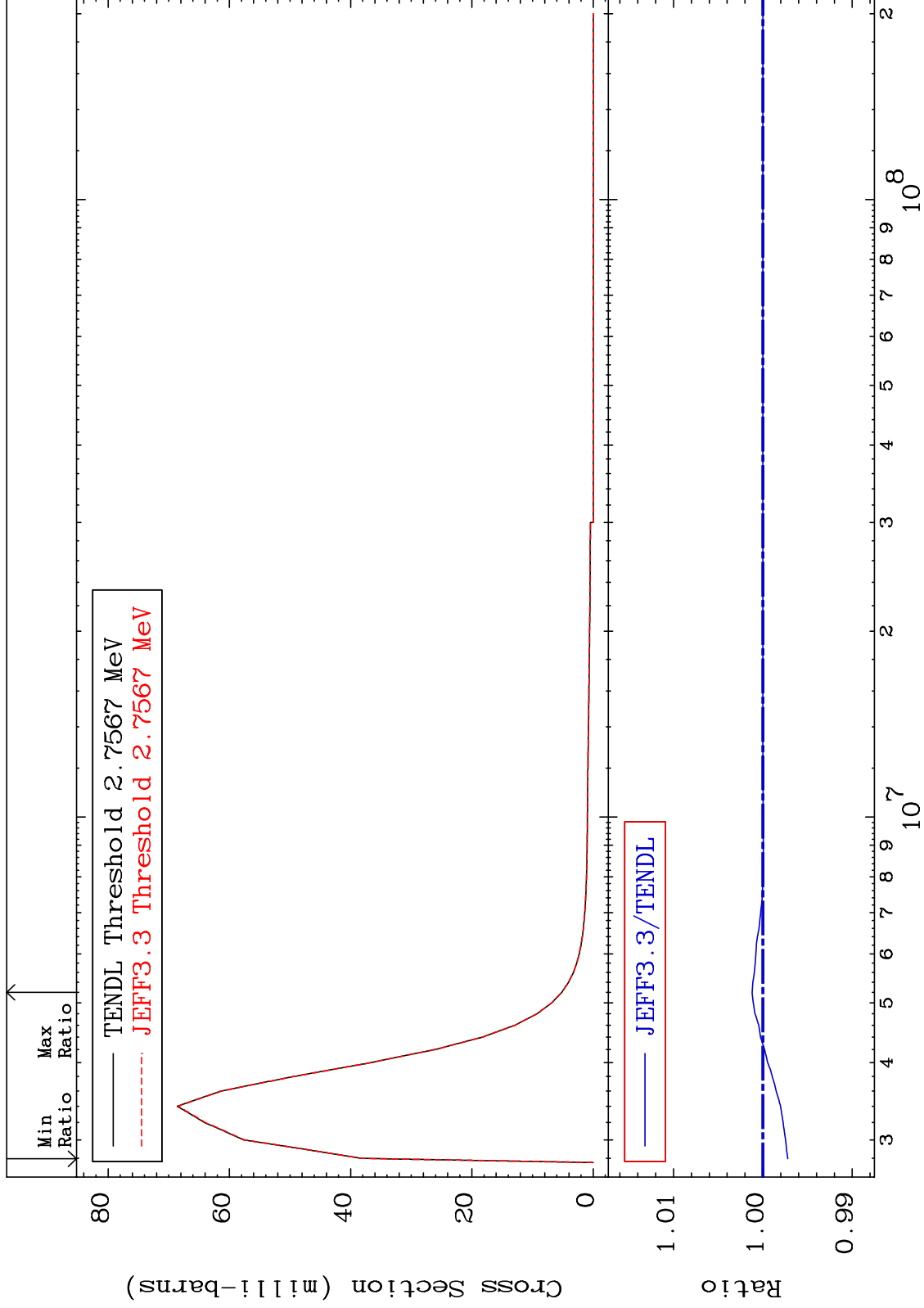
35

60-Nd-142

MAT 6025

MT= 67 (n,n') Level
Cross Section

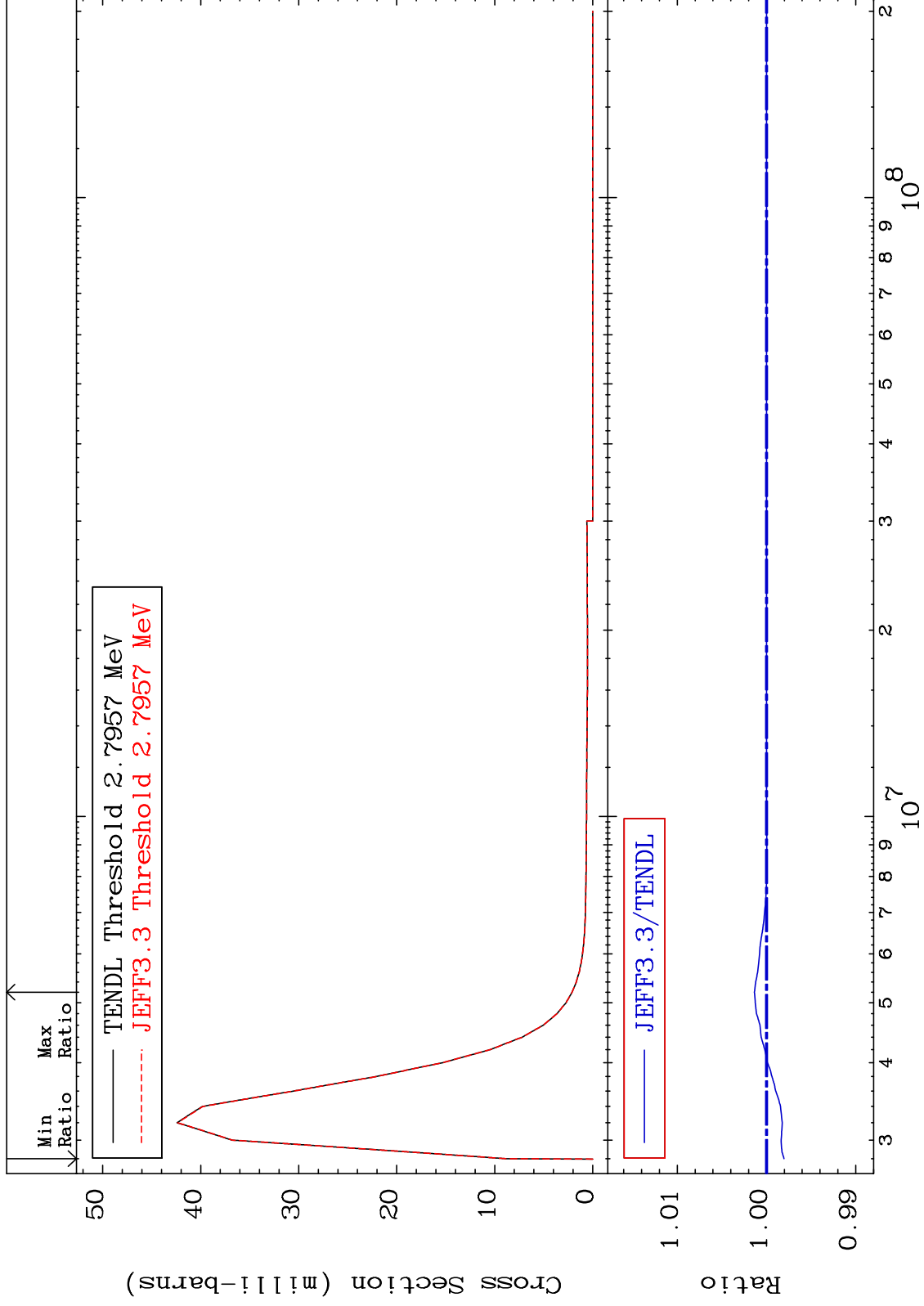
60-Nd-142
-0.278 To 0.121 %



MAT 6025

MT= 68 (n,n') Level
Cross Section

60-Nd-142
-0.196 To 0.135 %



37

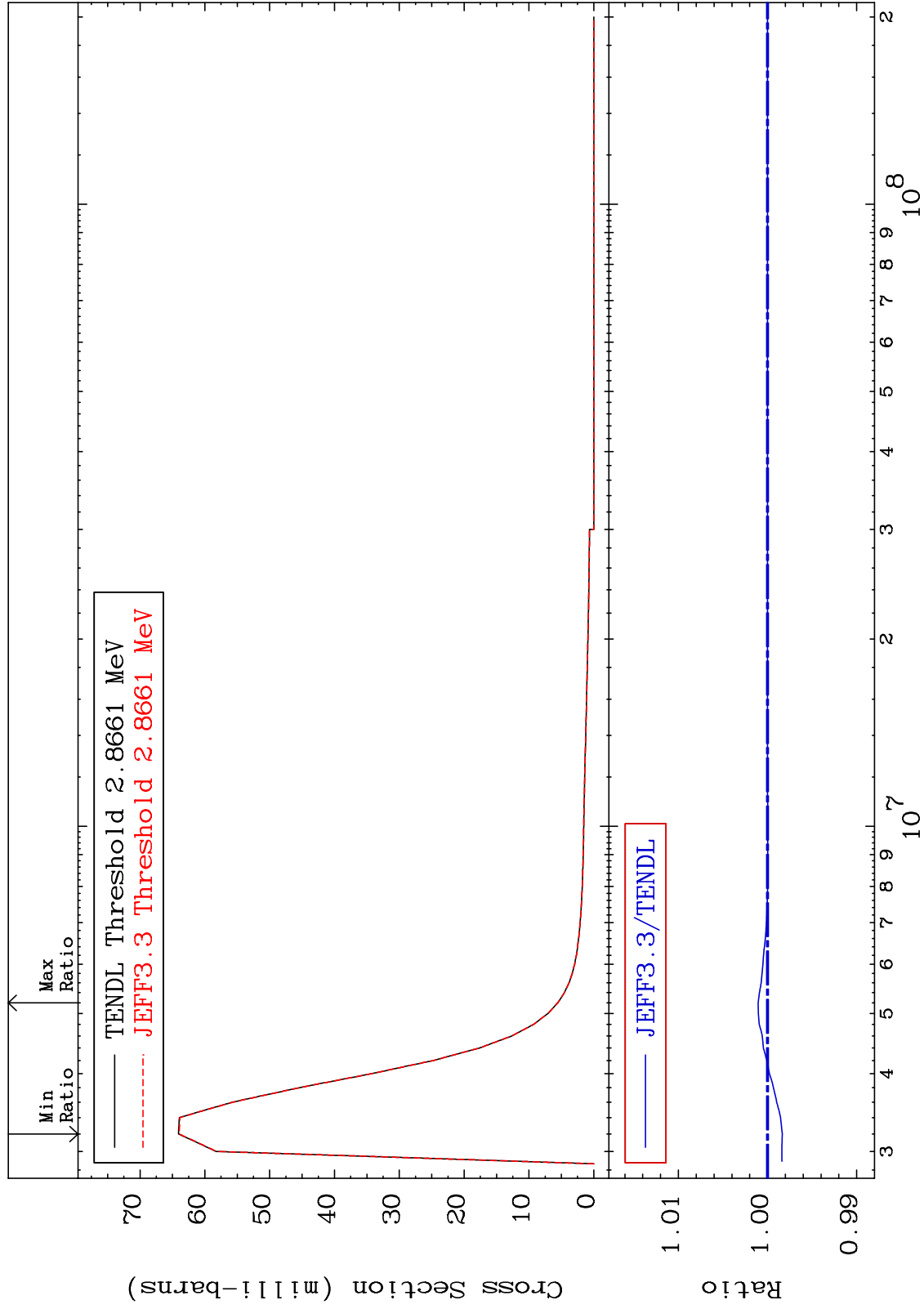
Incident Energy (eV)

60-Nd-142

MAT 6025

MT= 69 (n,n') Level
Cross Section

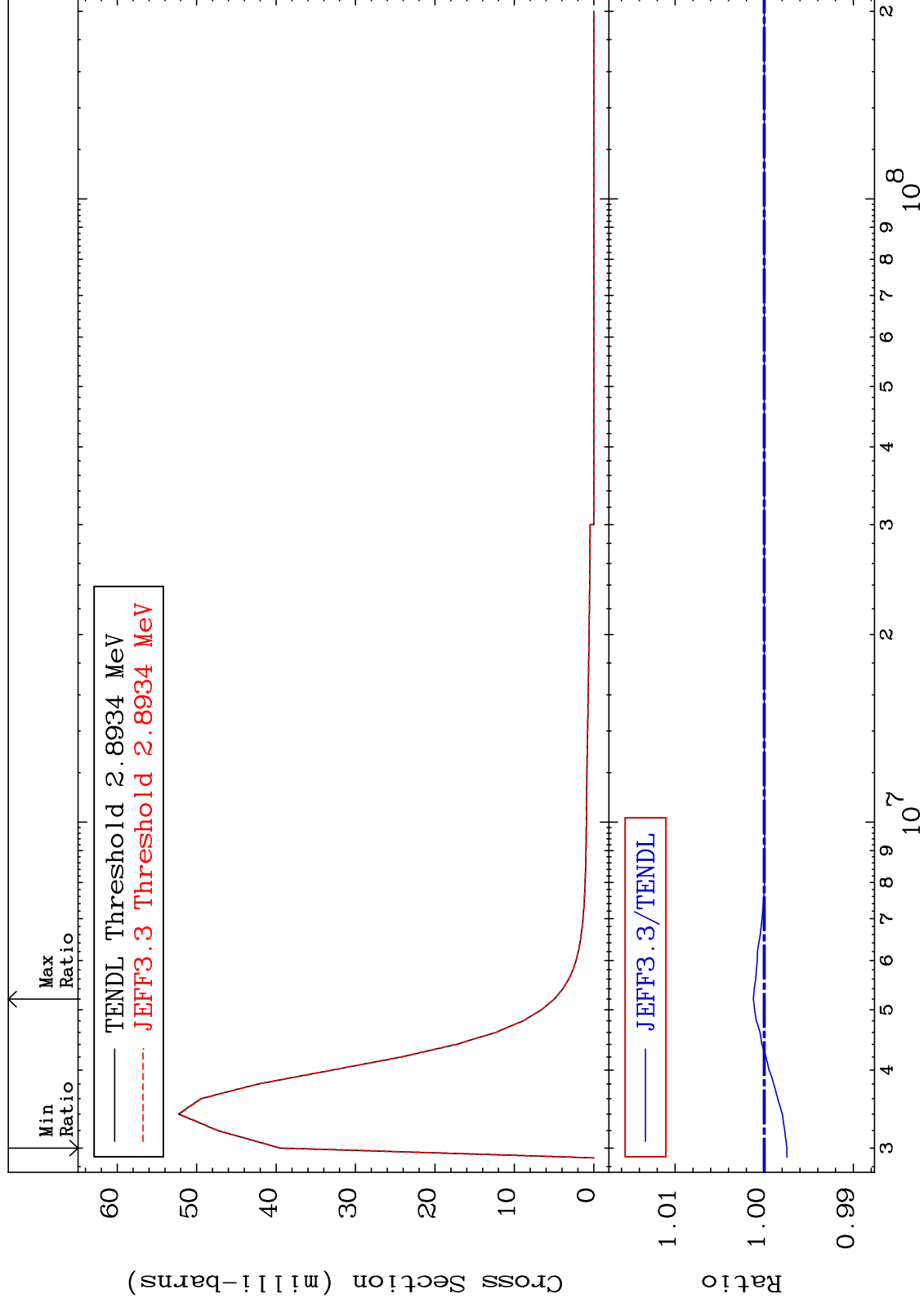
60-Nd-142
-0.165 To 0.106 %



MAT 6025

MT= 70 (n,n') Level
Cross Section

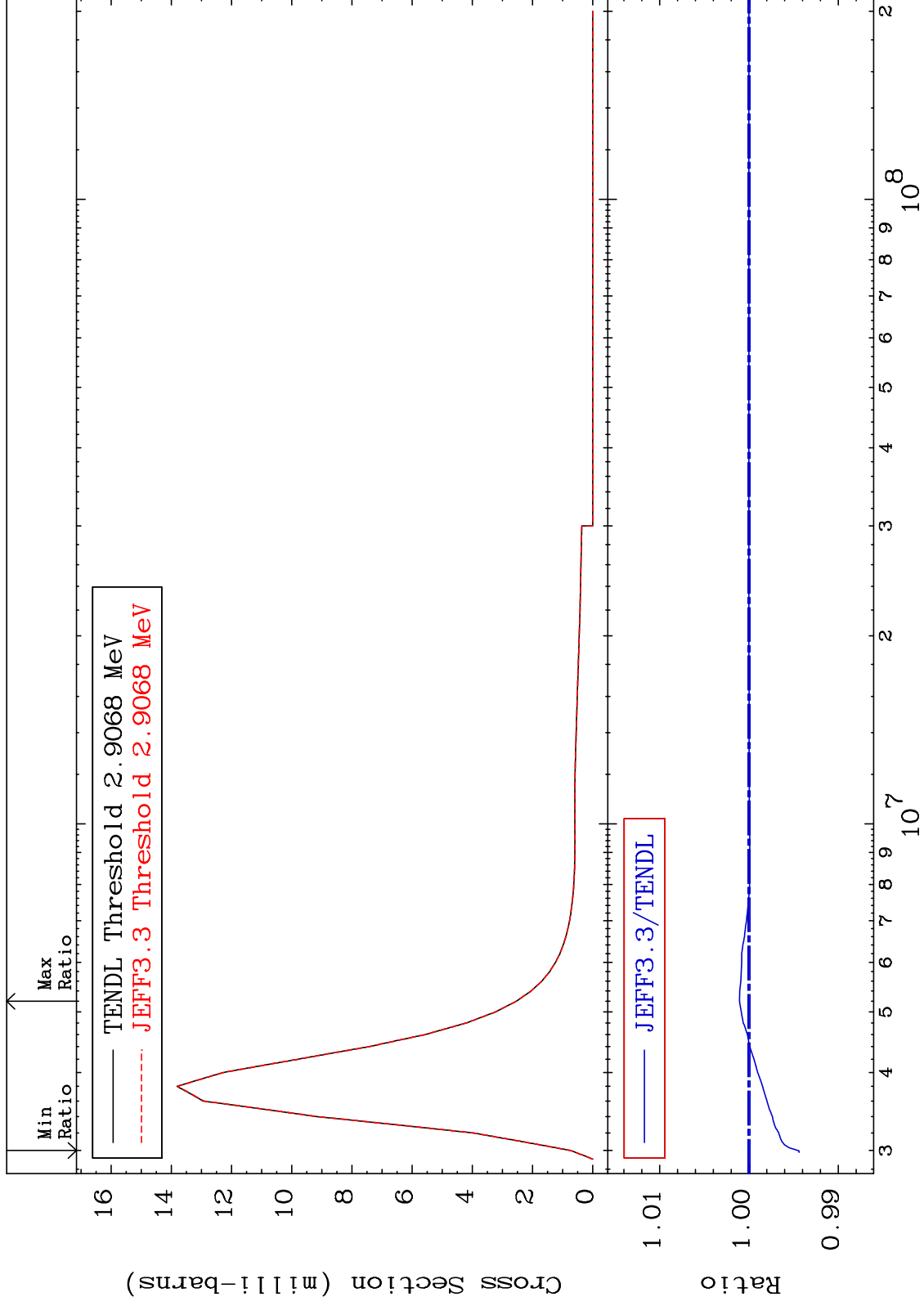
60-Nd-142
-0.255 To 0.122 %



MAT 6025

MT= 71 (n,n') Level
Cross Section

60-Nd-142
-0.560 To 0.107 %



40

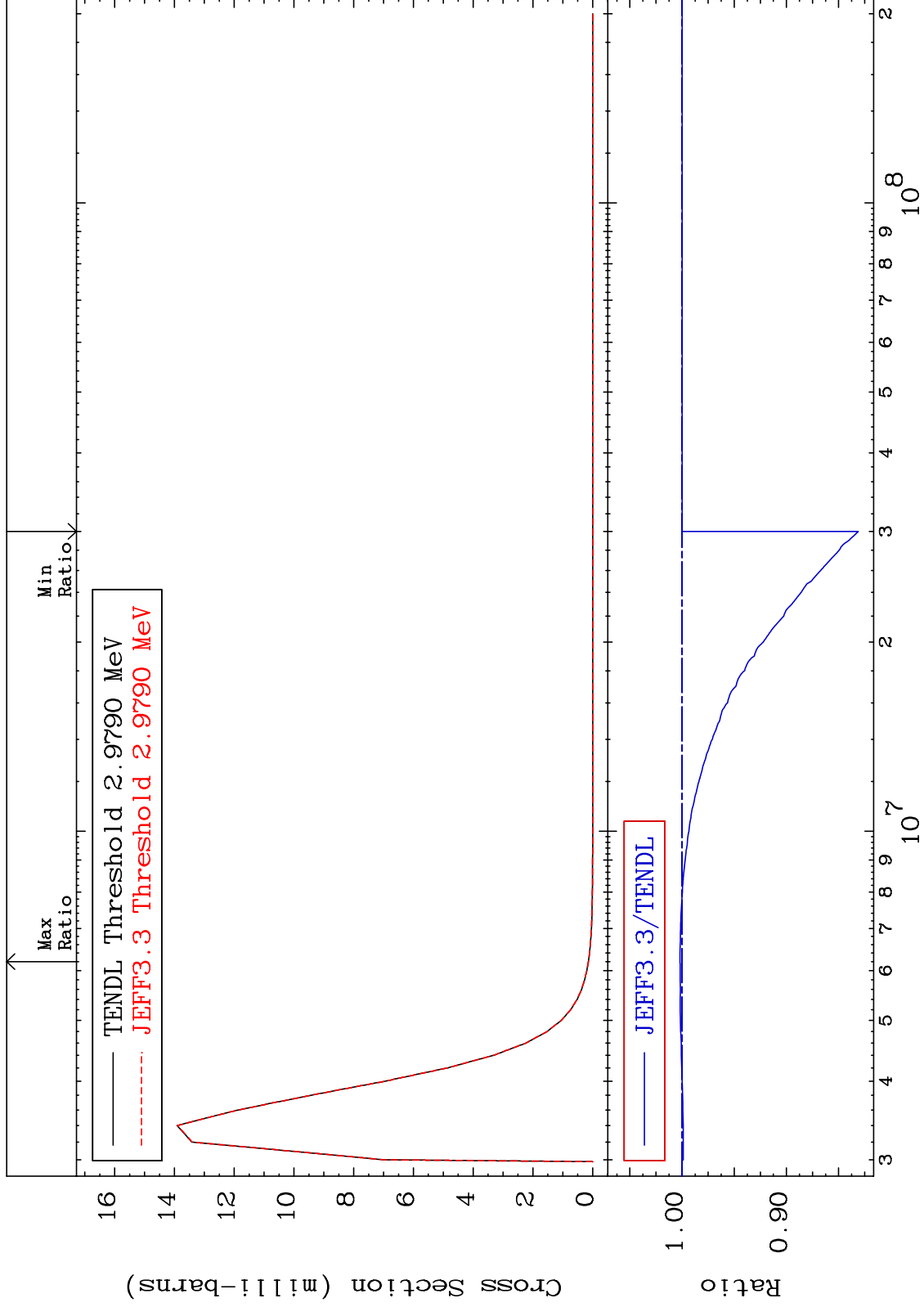
Incident Energy (eV)

60-Nd-142

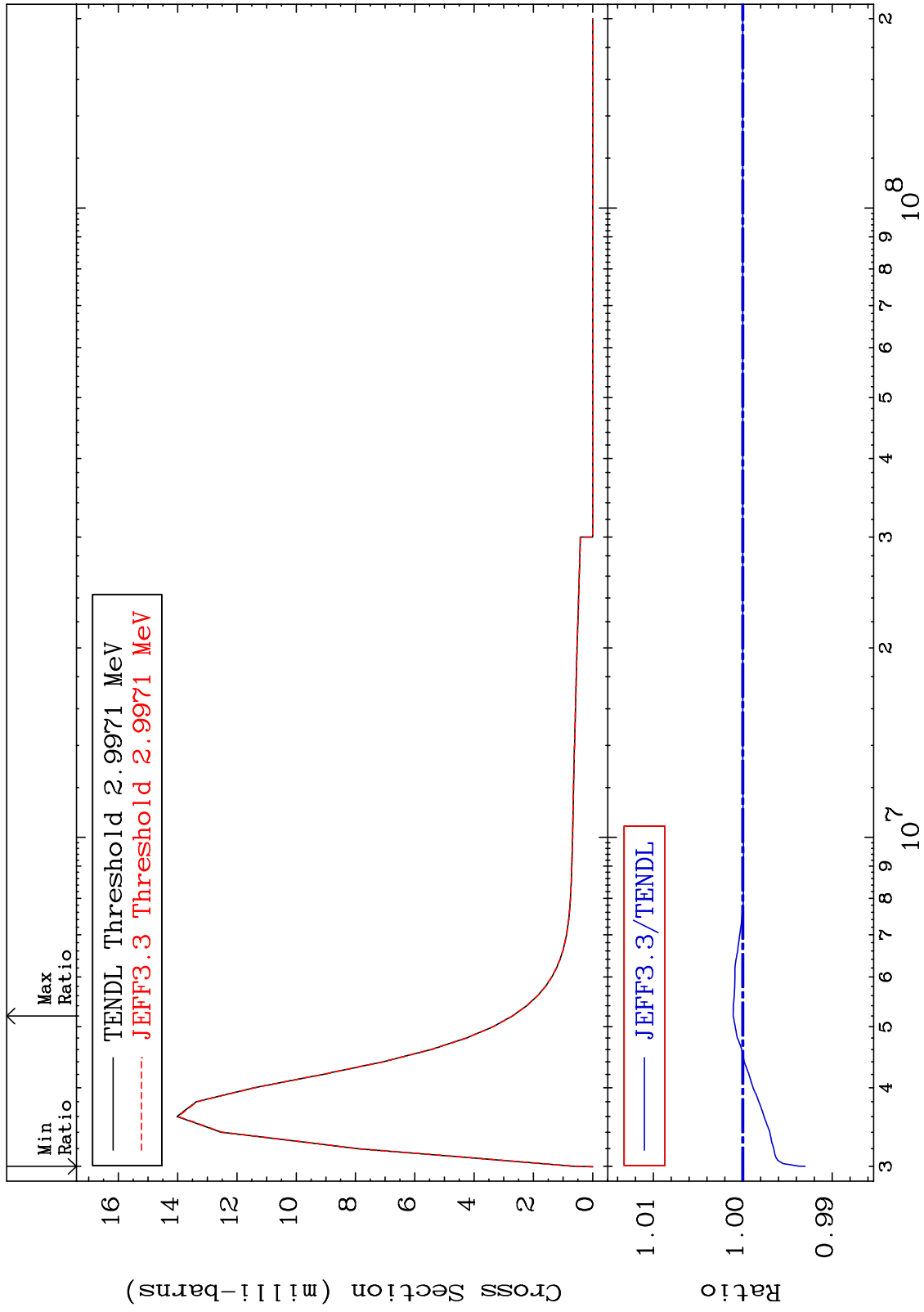
MAT 6025

MT= 72 (n, n') Level
Cross Section

60-Nd-142
-16.90 To 0.197 %



MAT 6025 MT= 73 (n, n') Level
 Cross Section 60-Nd-142
 -0.698 To 0.107 %



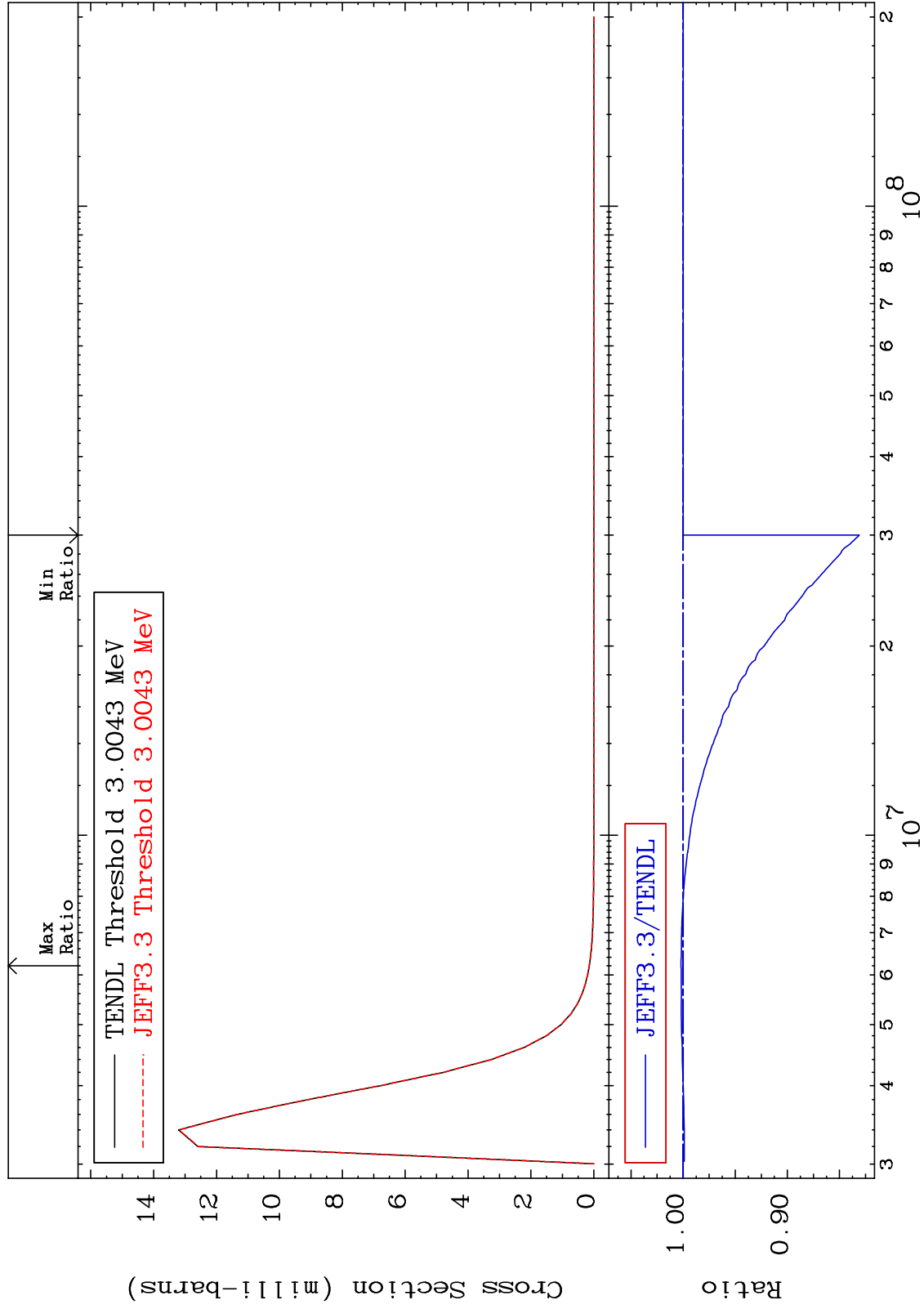
60-Nd-142

Incident Energy (eV)

MAT 6025

MT= 74 (n, n') Level
Cross Section

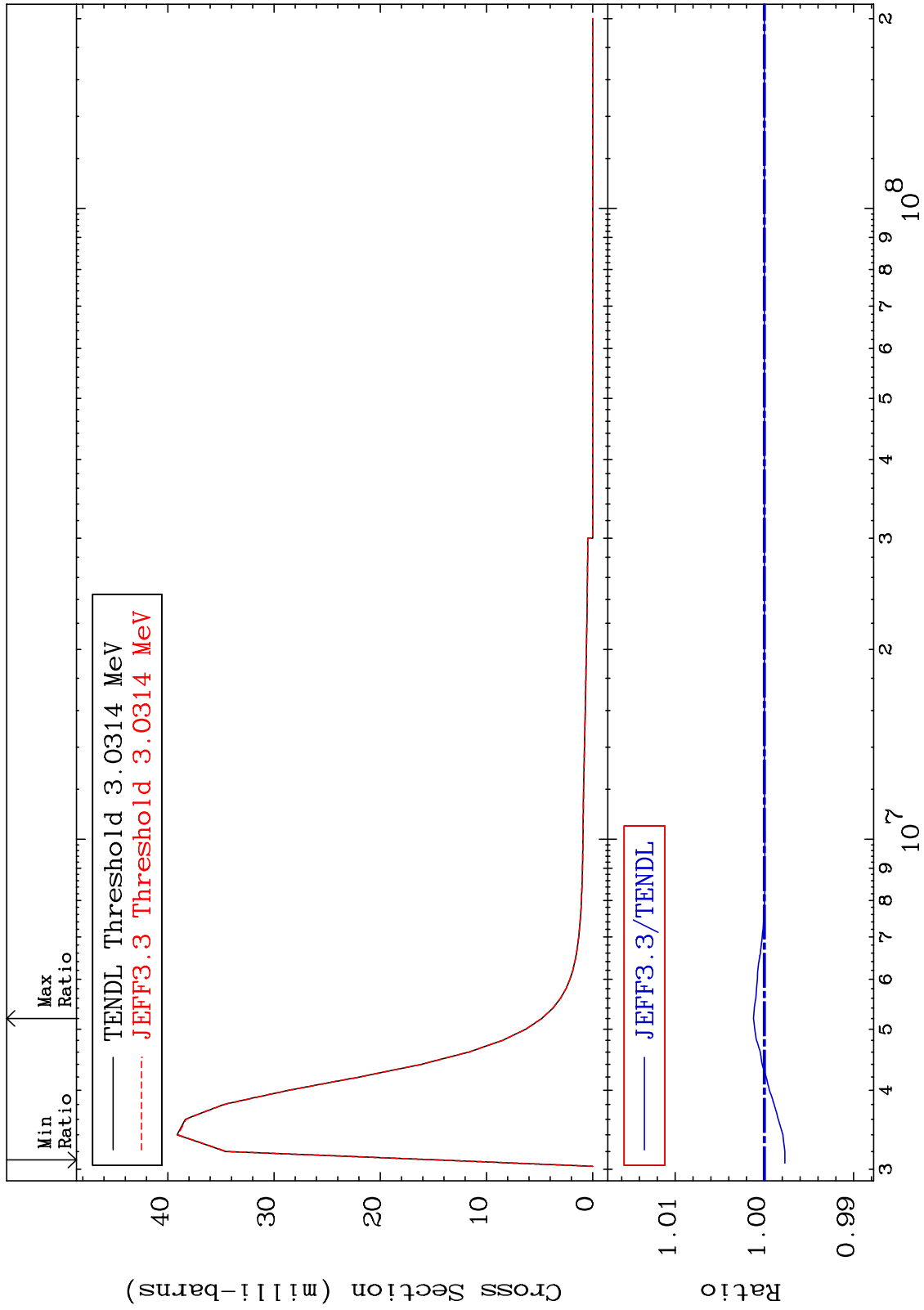
60-Nd-142
-16.90 To 0.197 %



60-Nd-142

43

MAT 6025 MT= 75 (n,n') Level
 Cross Section 60-Nd-142
 -0.230 To 0.122 %

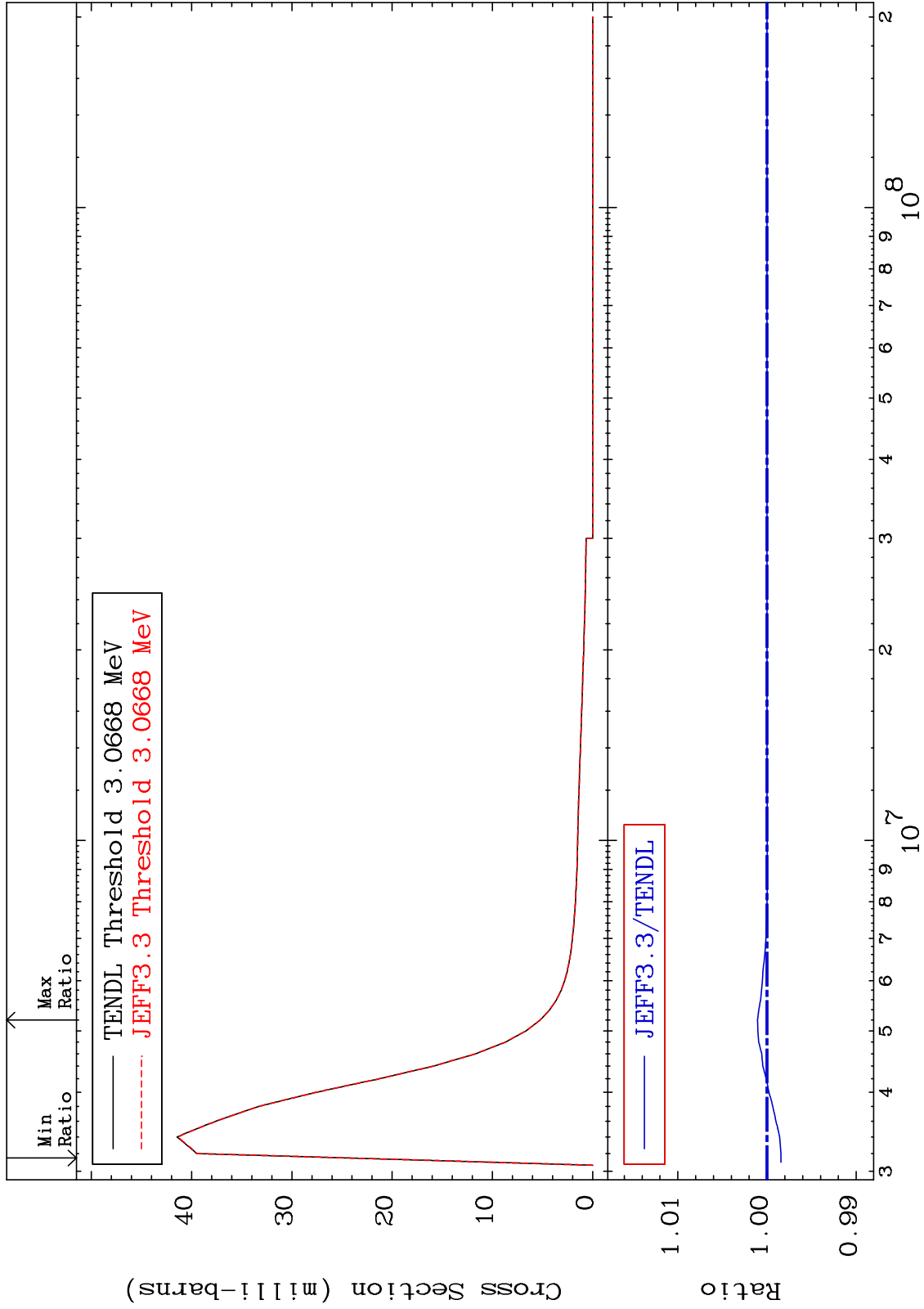


Incident Energy (eV) 60-Nd-142

MAT 6025

MT= 76 (n,n') Level
Cross Section

60-Nd-142
-0.156 To 0.107 %



45

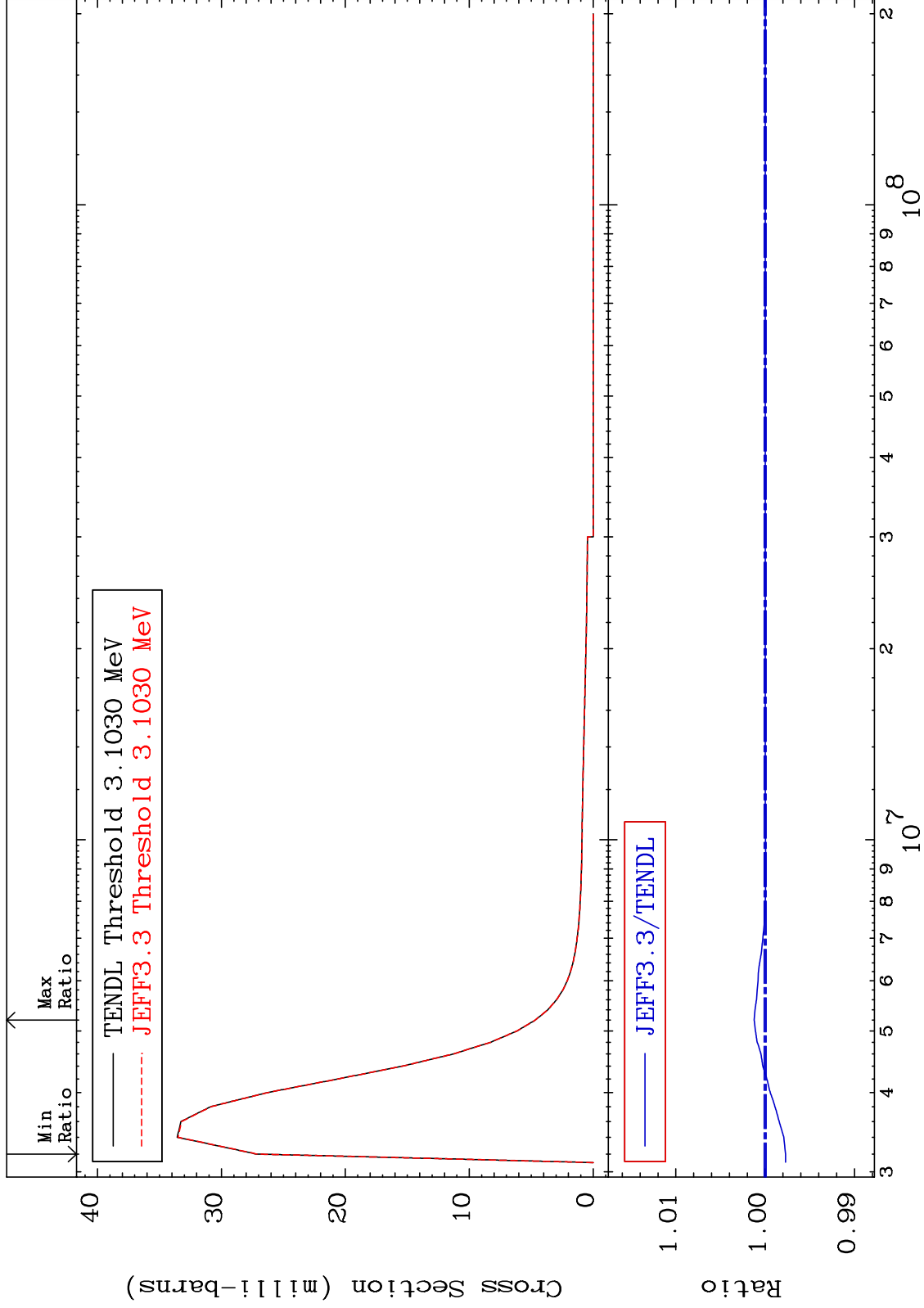
Incident Energy (eV)

60-Nd-142

MAT 6025

MT= 77 (n,n') Level
Cross Section

60-Nd-142
-0.229 To 0.123 %



46

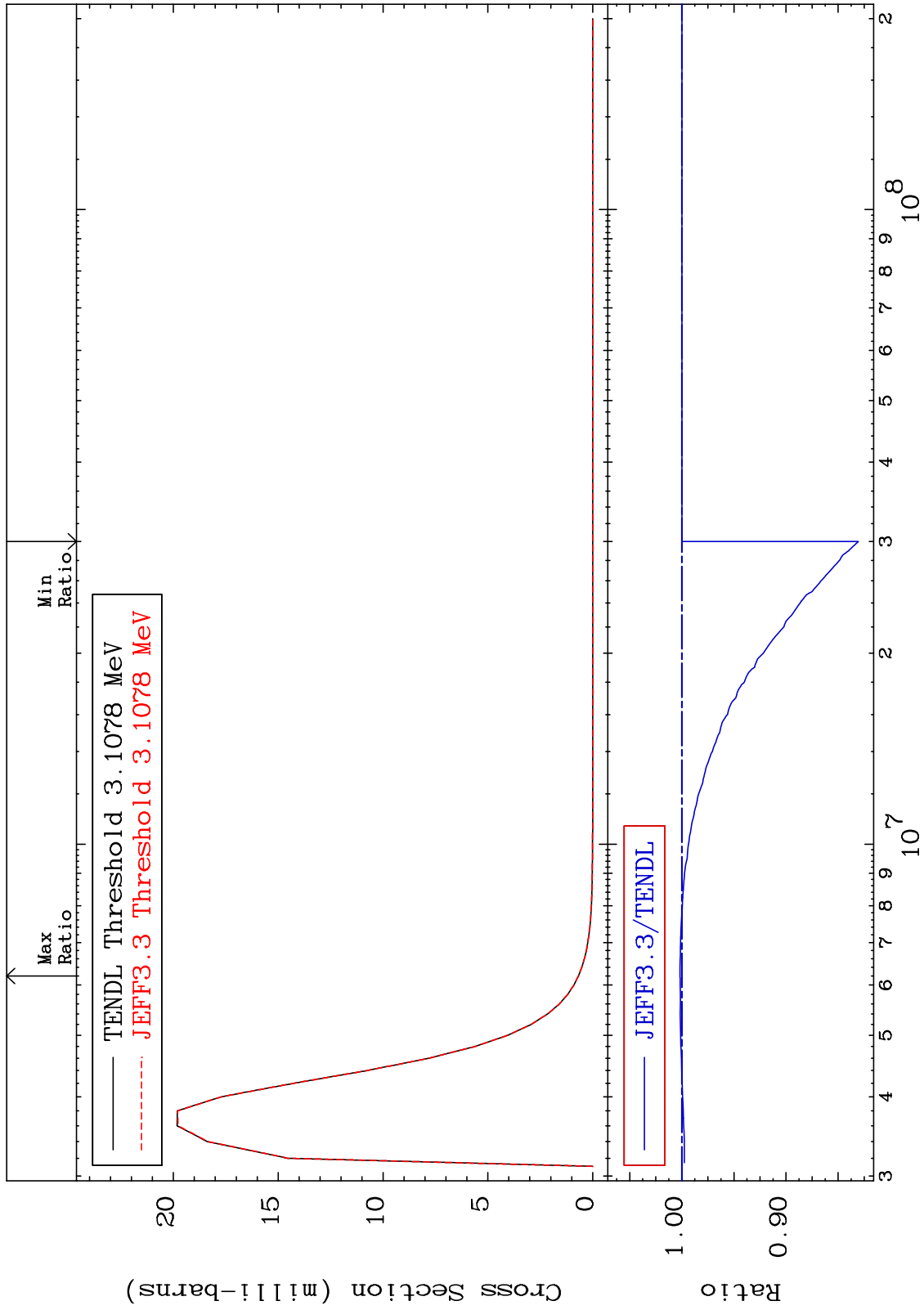
Incident Energy (eV)

60-Nd-142

MAT 6025

MT= 78 (n, n') Level
Cross Section

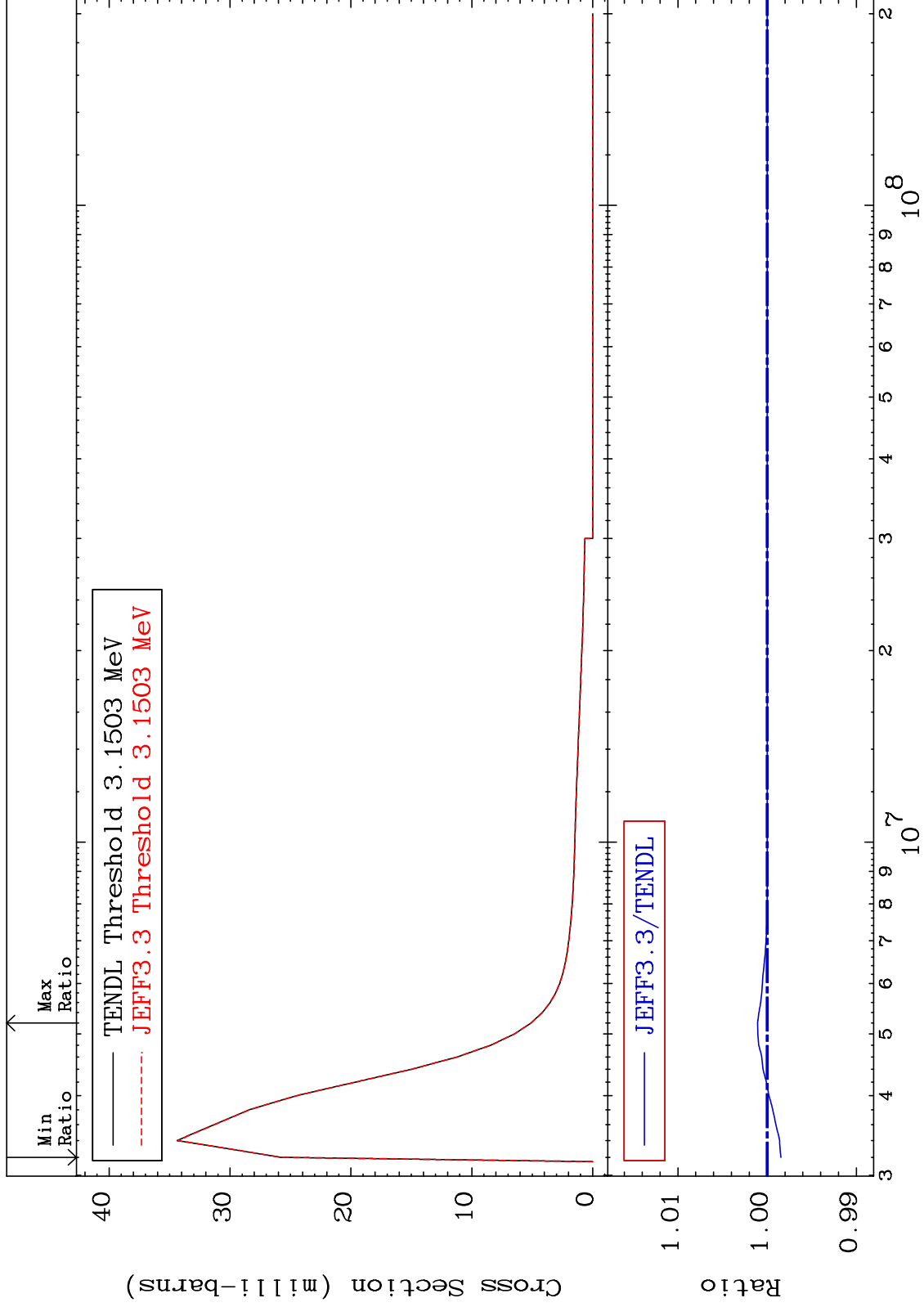
60-Nd-142
-16.94 To 0.174 %



MAT 6025

MT= 79 (n,n') Level
Cross Section

60-Nd-142
-0.154 To 0.108 %



48

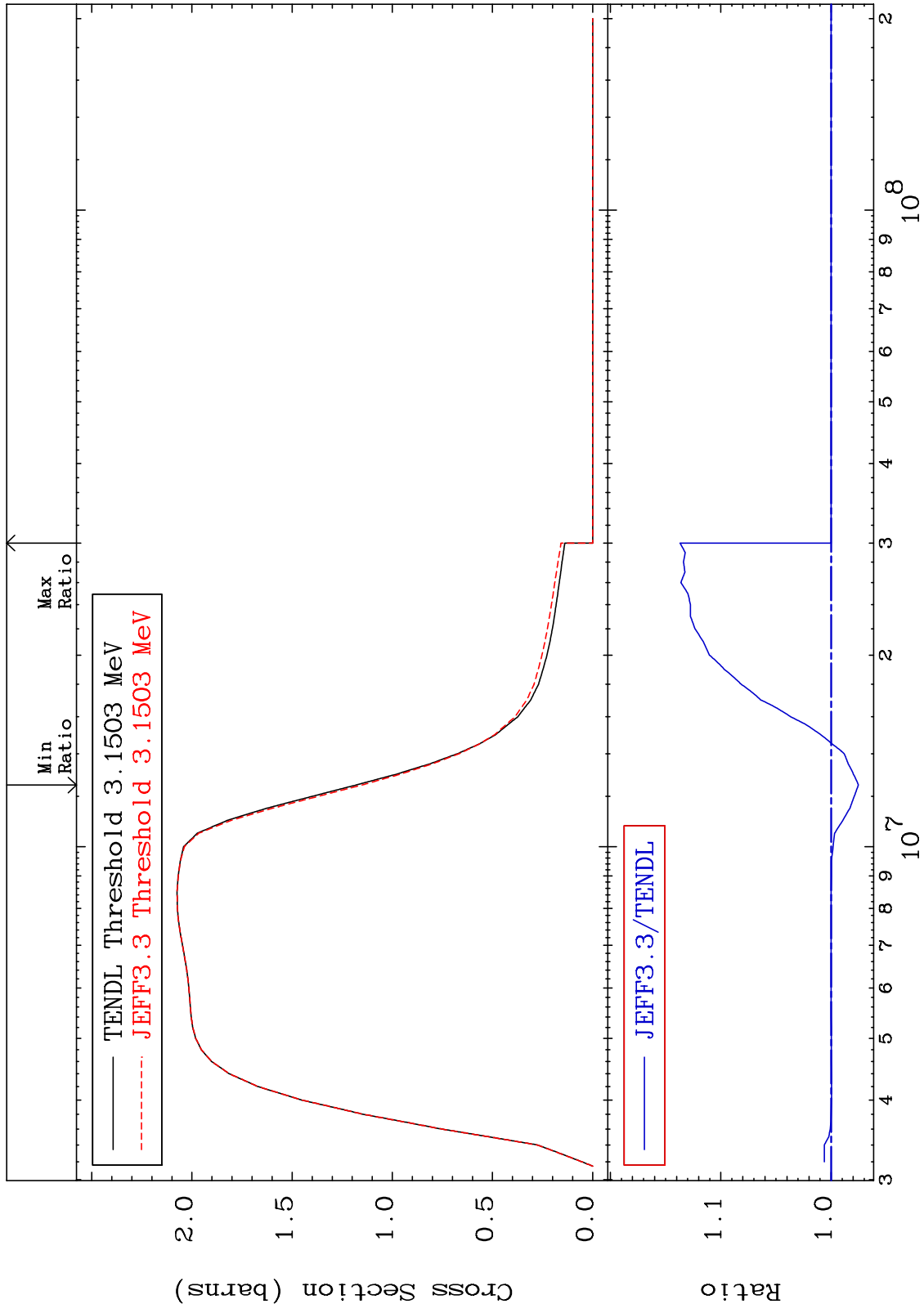
Incident Energy (eV)

60-Nd-142

MAT 6025

(n, n') Continuum
Cross Section

60-Nd-142
-2.473 To 13.69 %



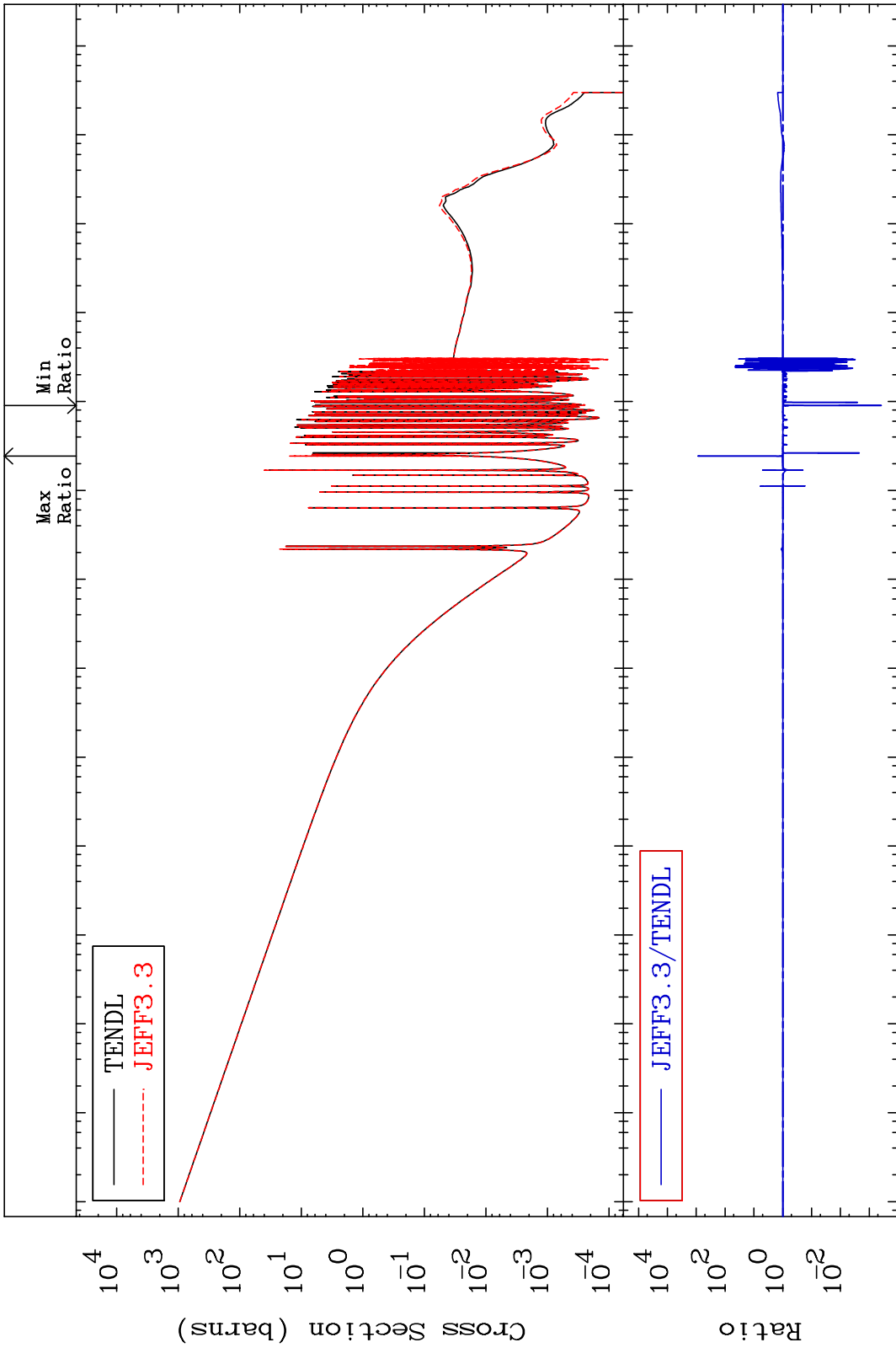
MAT 6025

(n, γ)

60-Nd-142

Cross Section

-99.96 To 9999. %

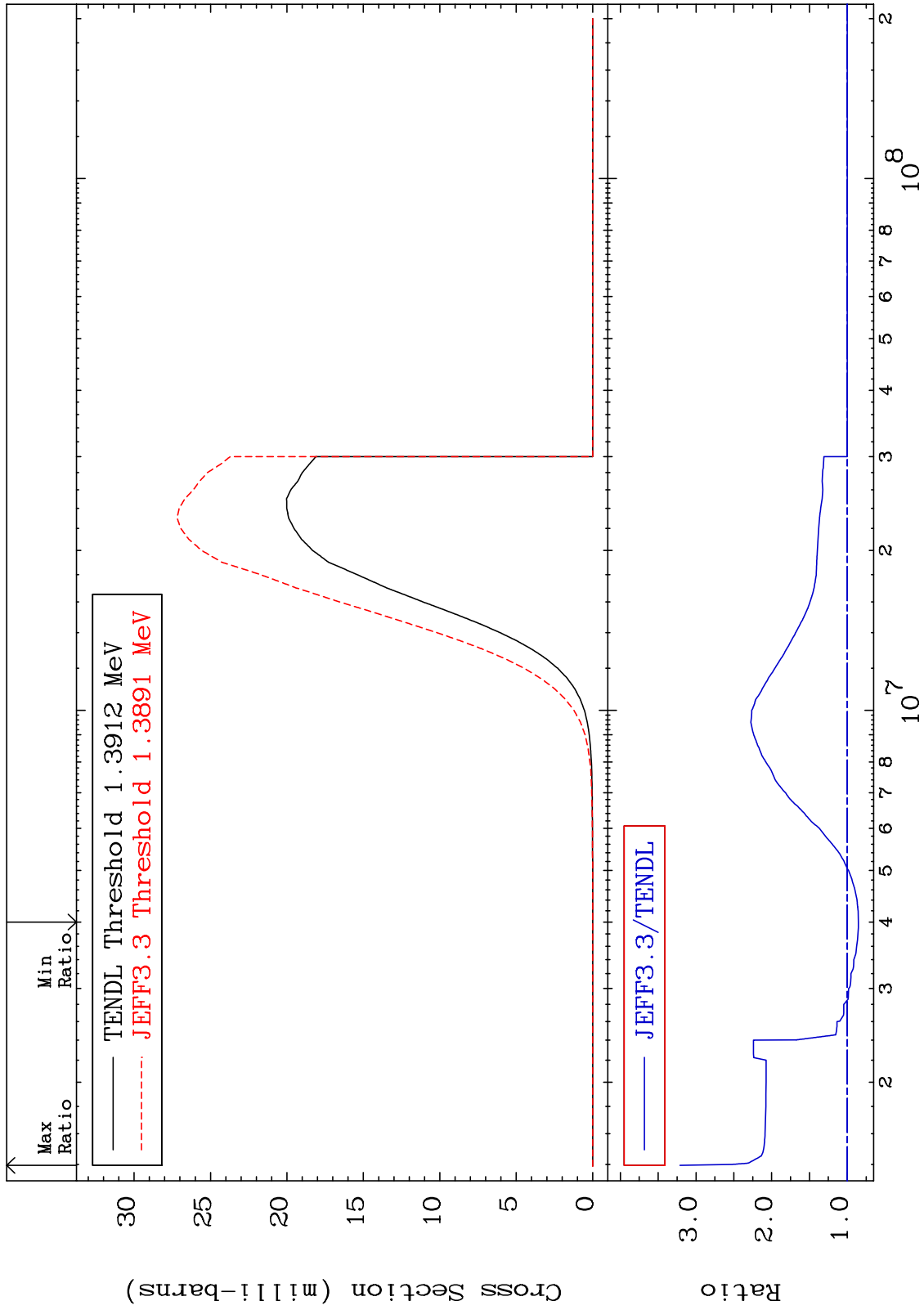


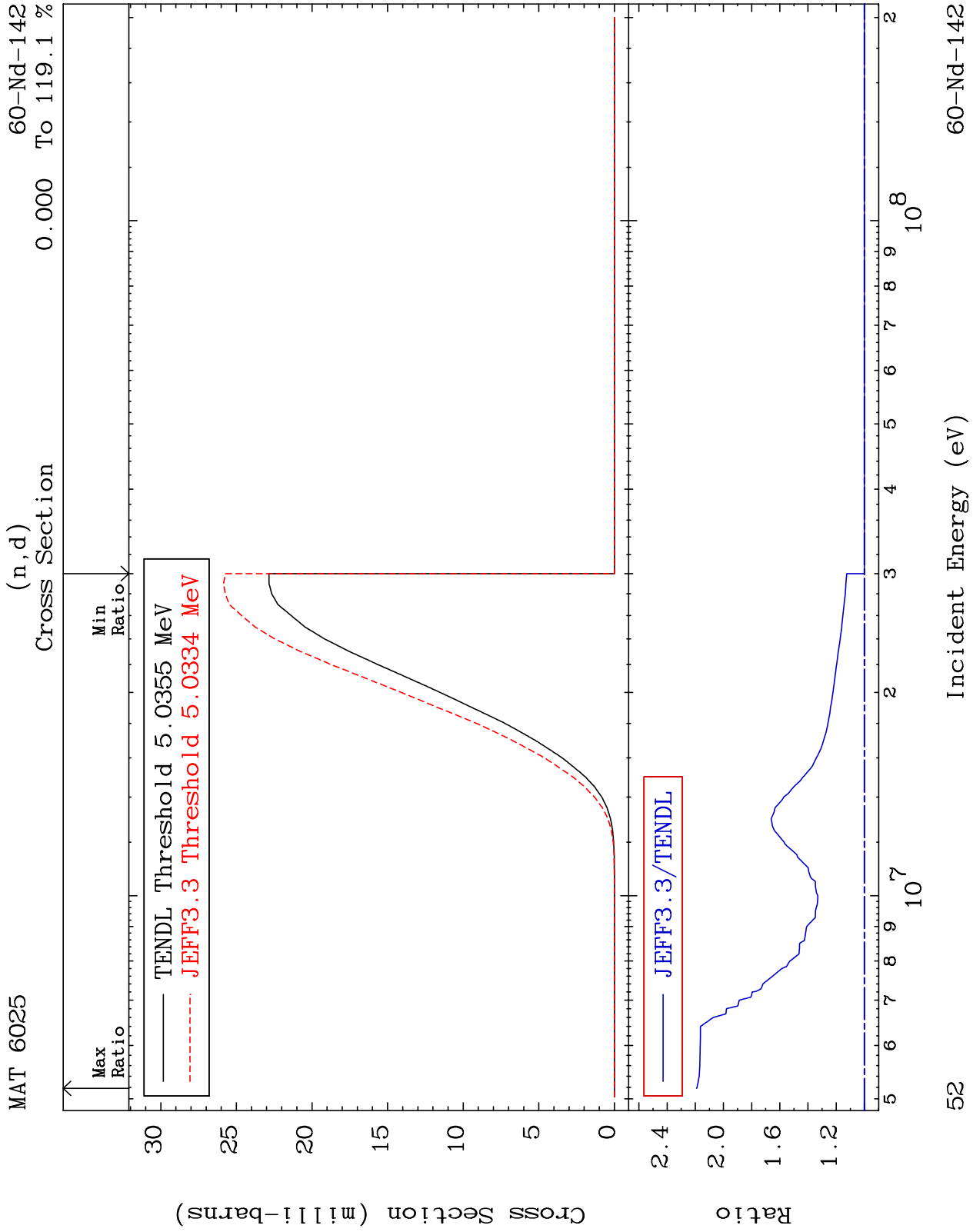
50

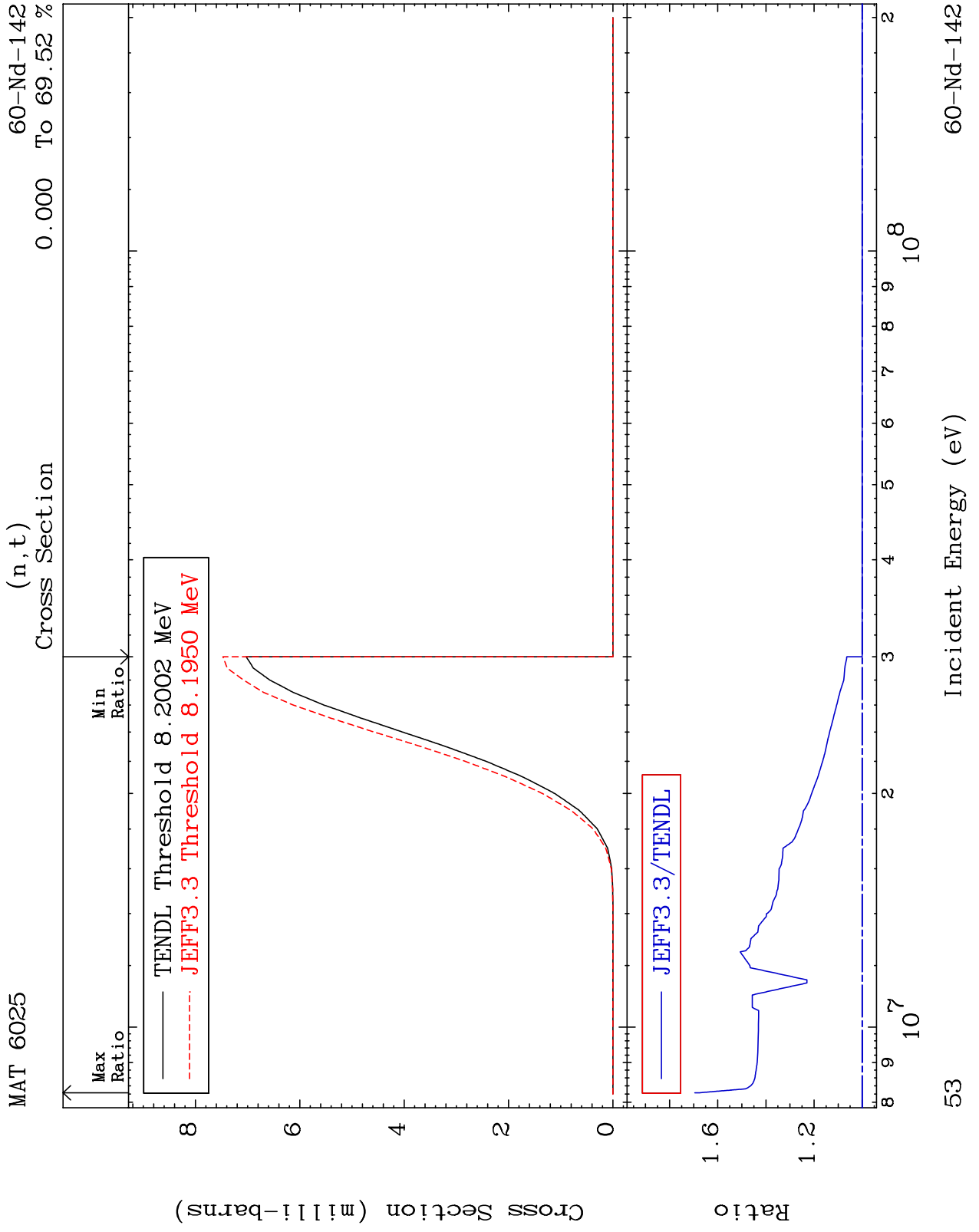
Incident Energy (eV)

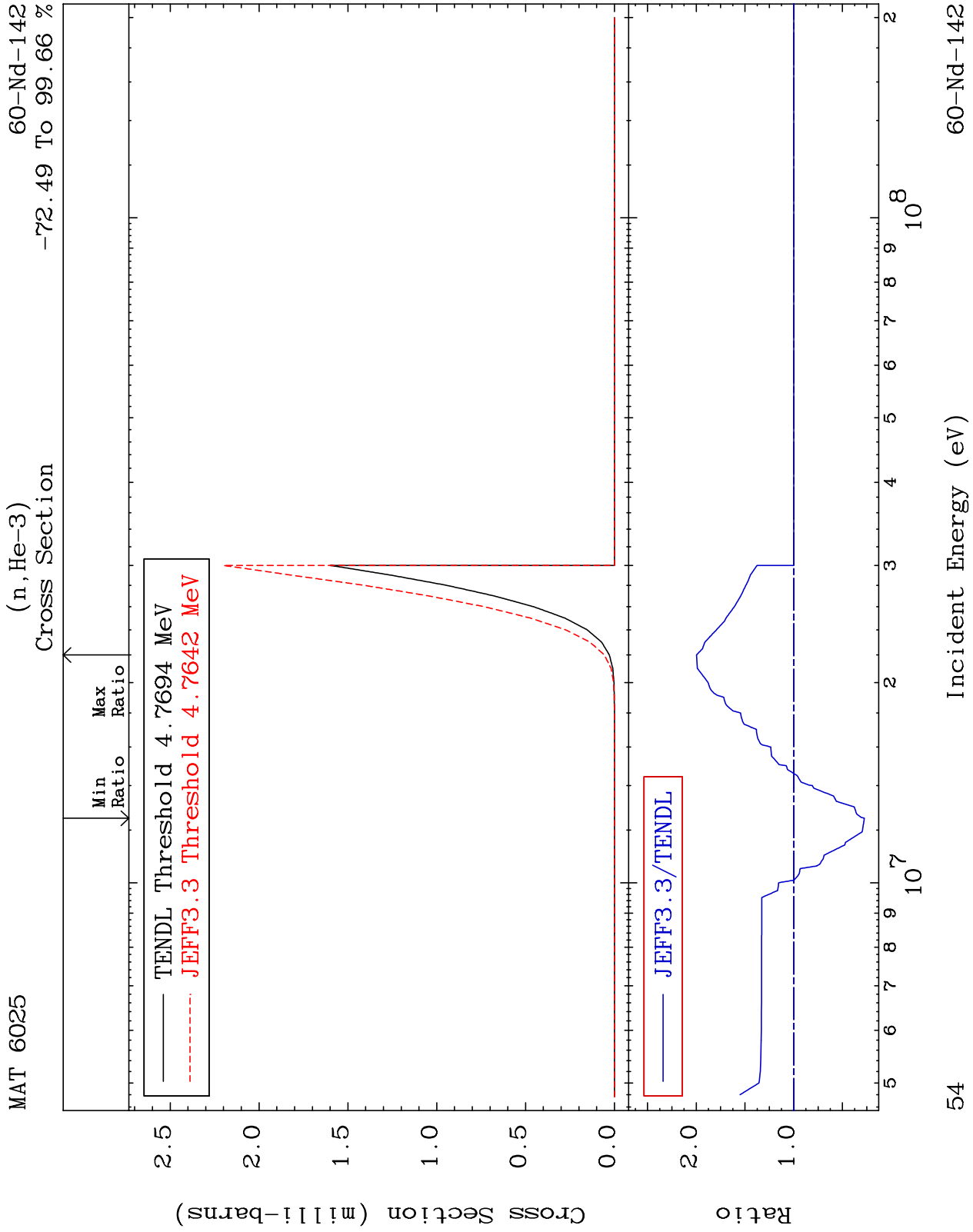
60-Nd-142

MAT 6025 (n,p) Cross Section 60-Nd-142 -14.73 To 221.1 %









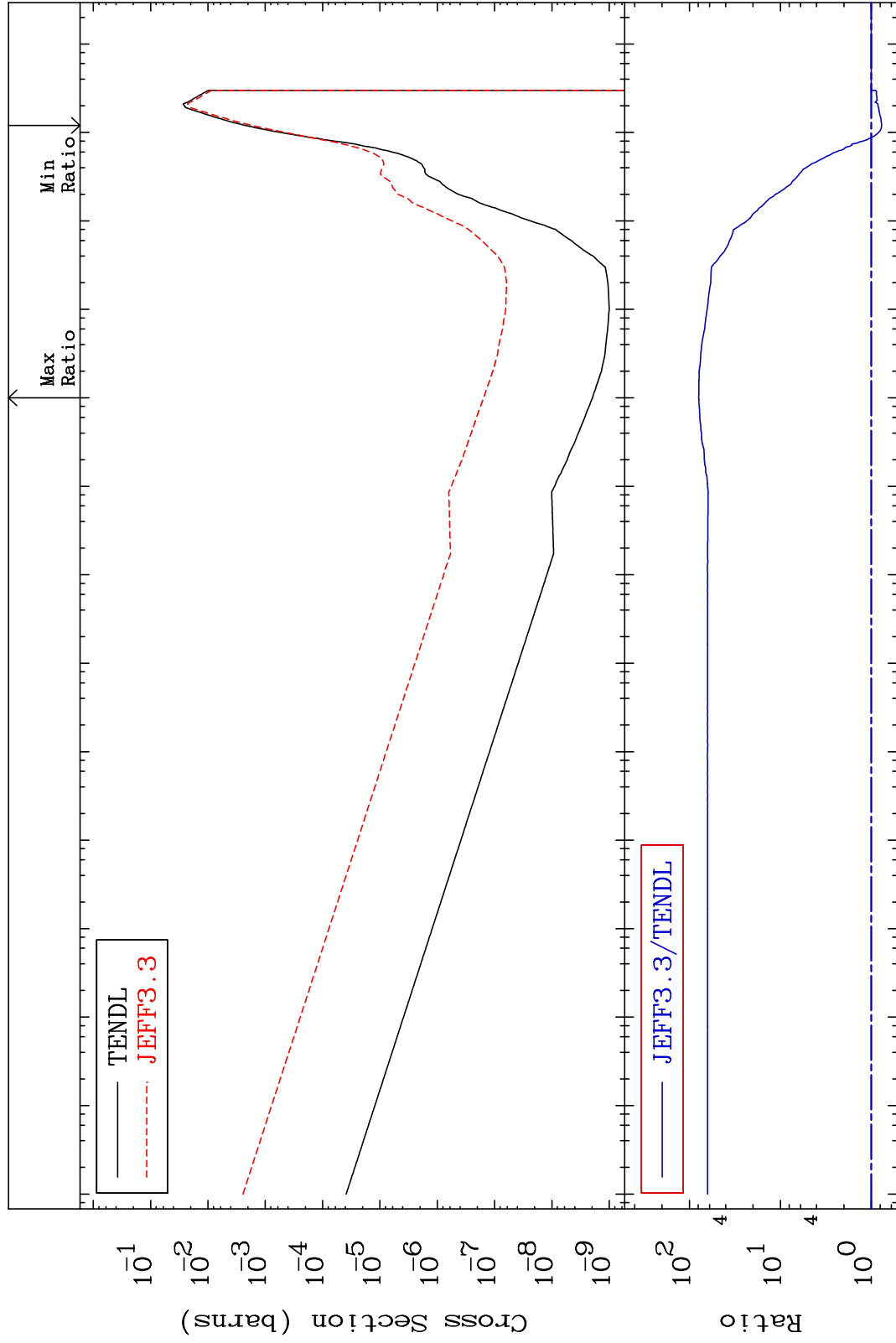
MAT 6025

(n, α)

60-Nd-142

Cross Section

-22.95 To 7808. %



55

Incident Energy (eV)

60-Nd-142

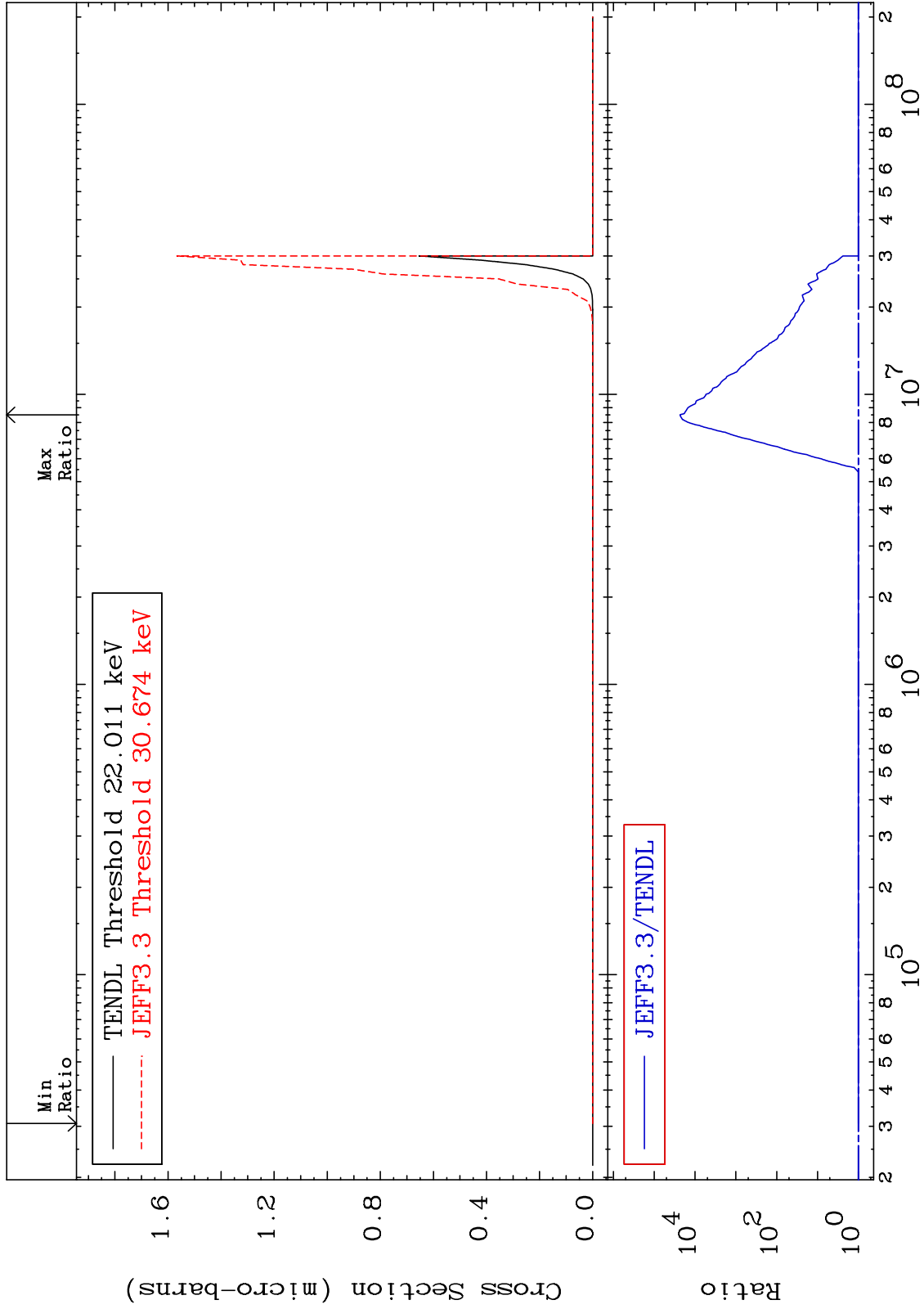
MAT 6025

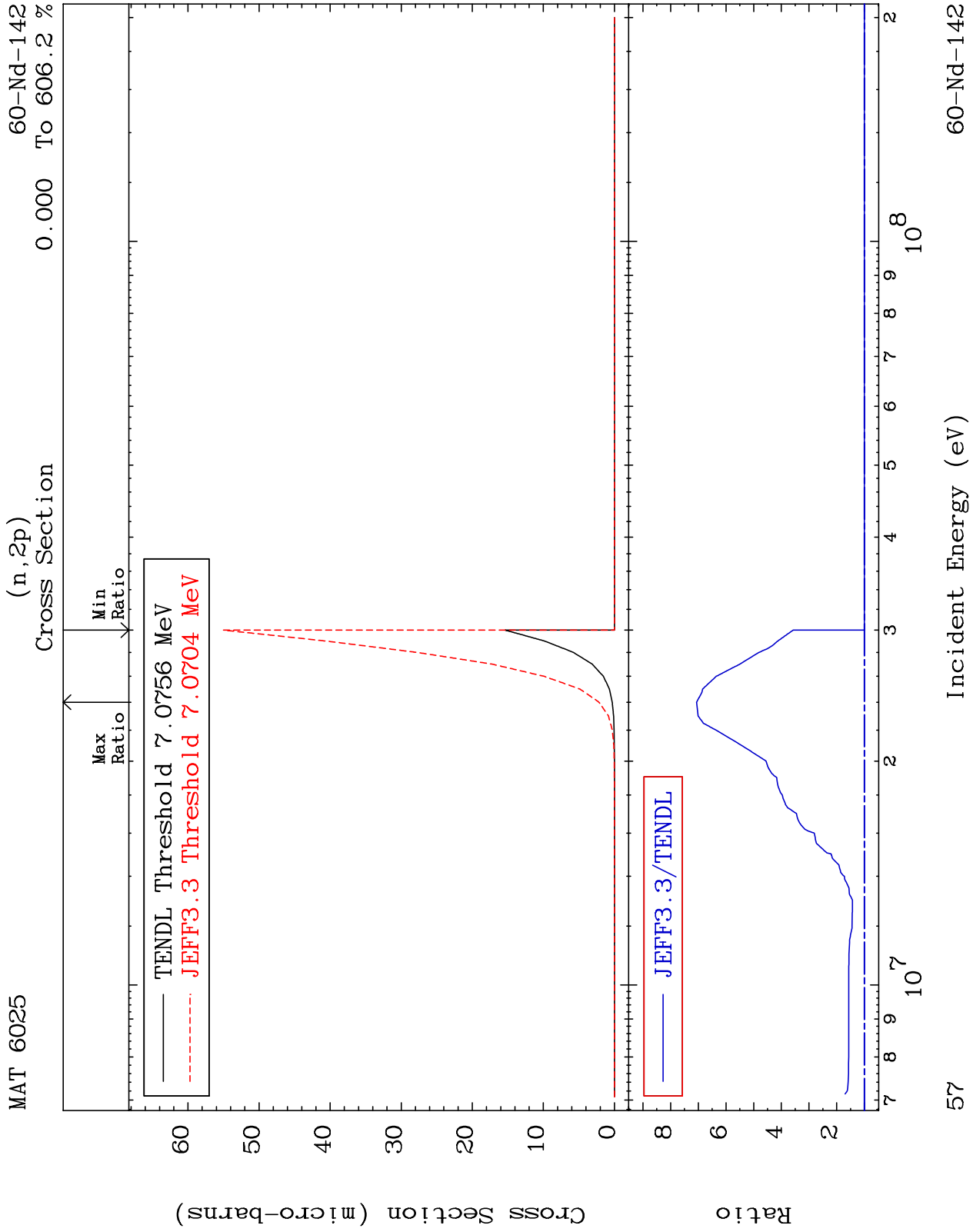
(n, 2α)

60-Nd-142

Cross Section

To 9999. %





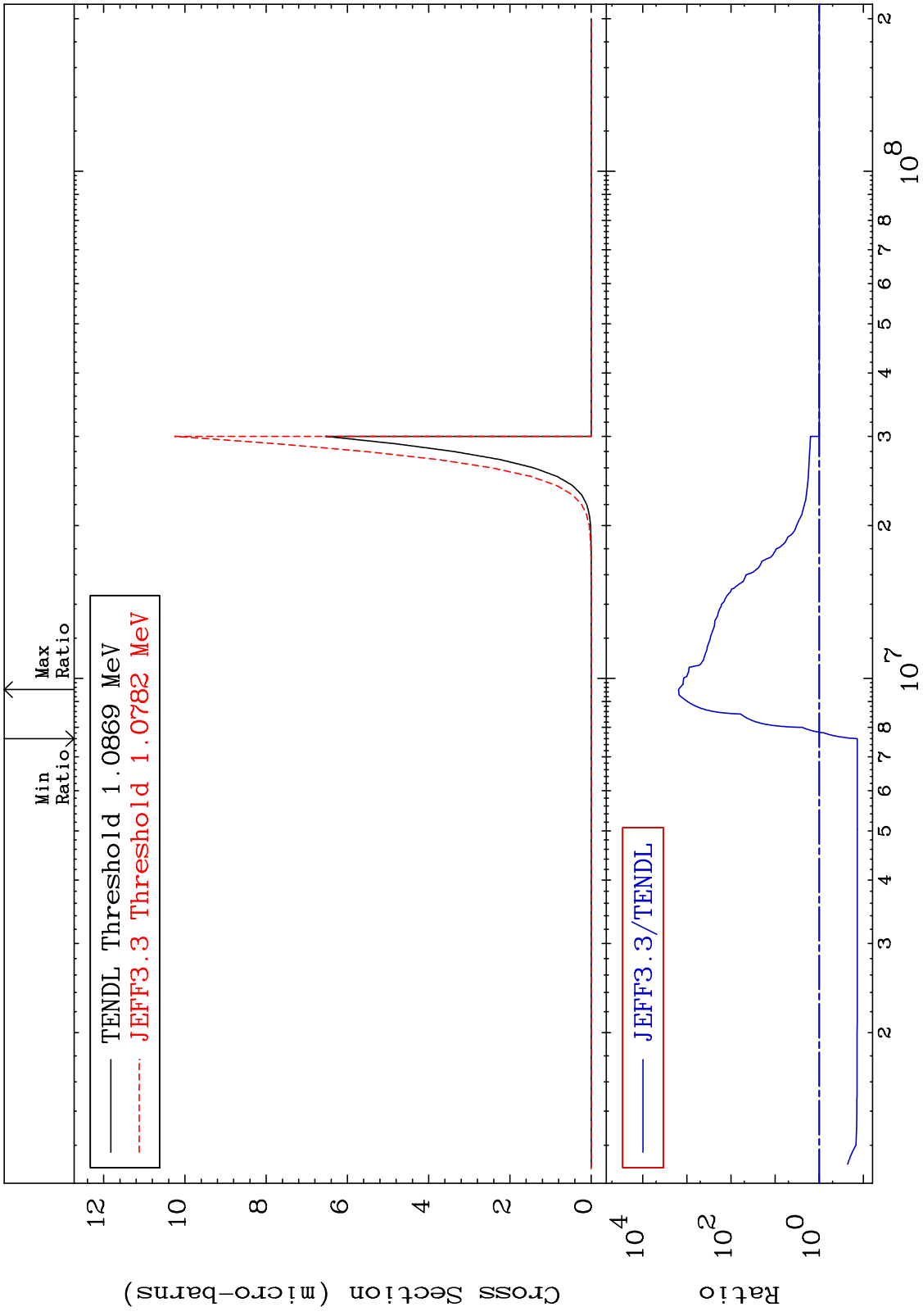
MAT 6025

(n,p) α

60-Nd-142

-86.31 To 9999. %

Cross Section



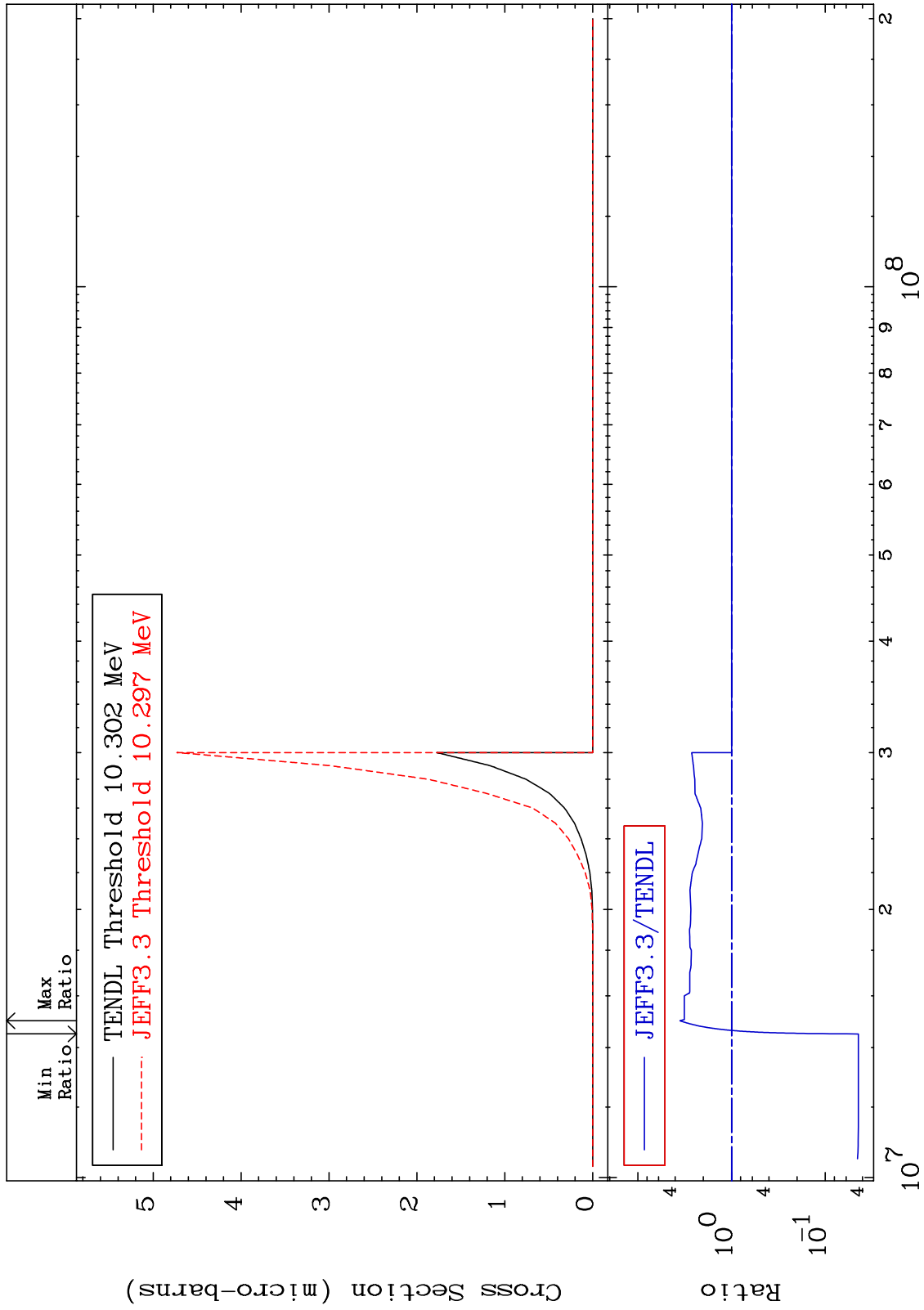
MAT 6025

(n,p) d

60-Nd-142

Cross Section

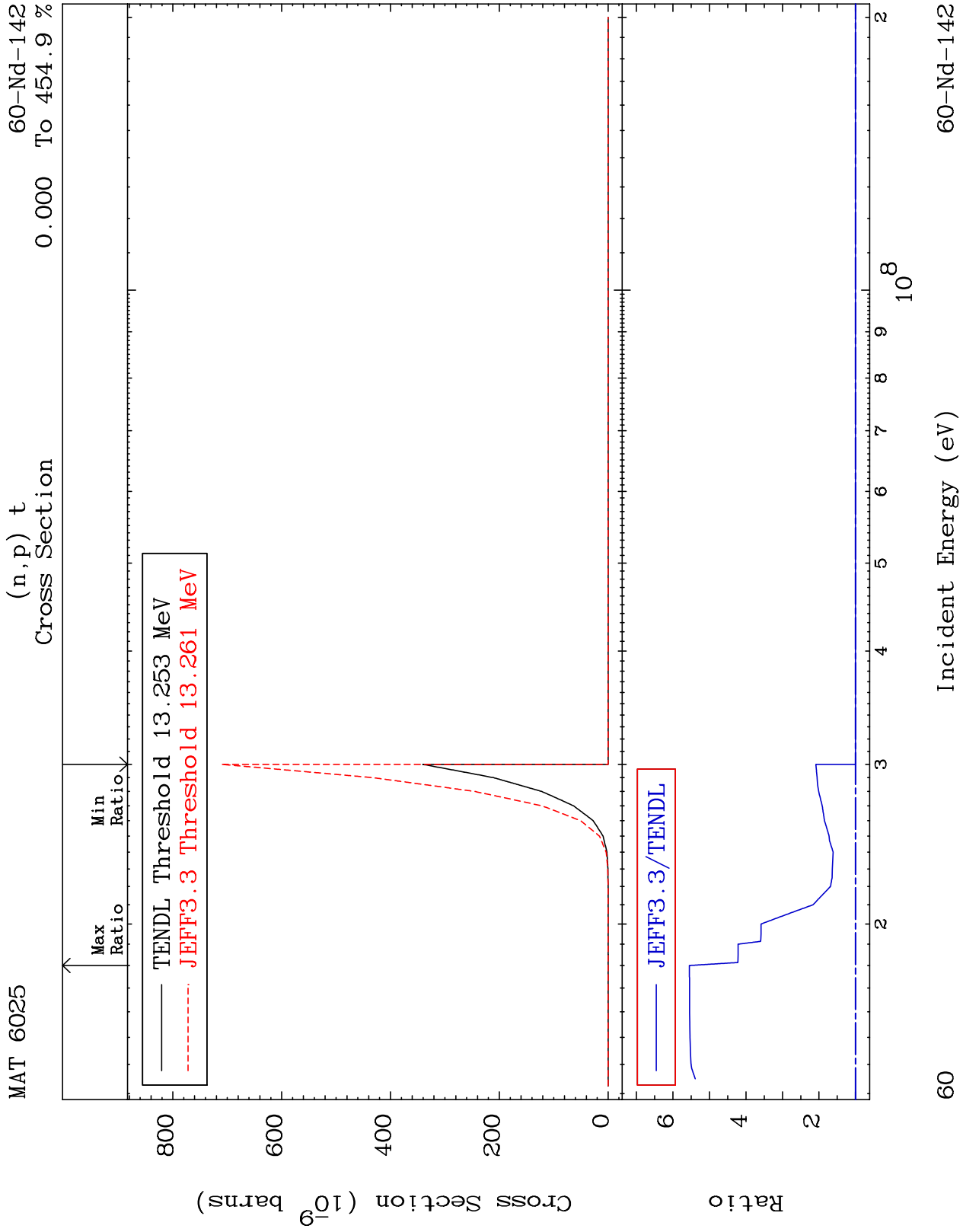
-95.57 To 255.0 %



59

Incident Energy (eV)

60-Nd-142



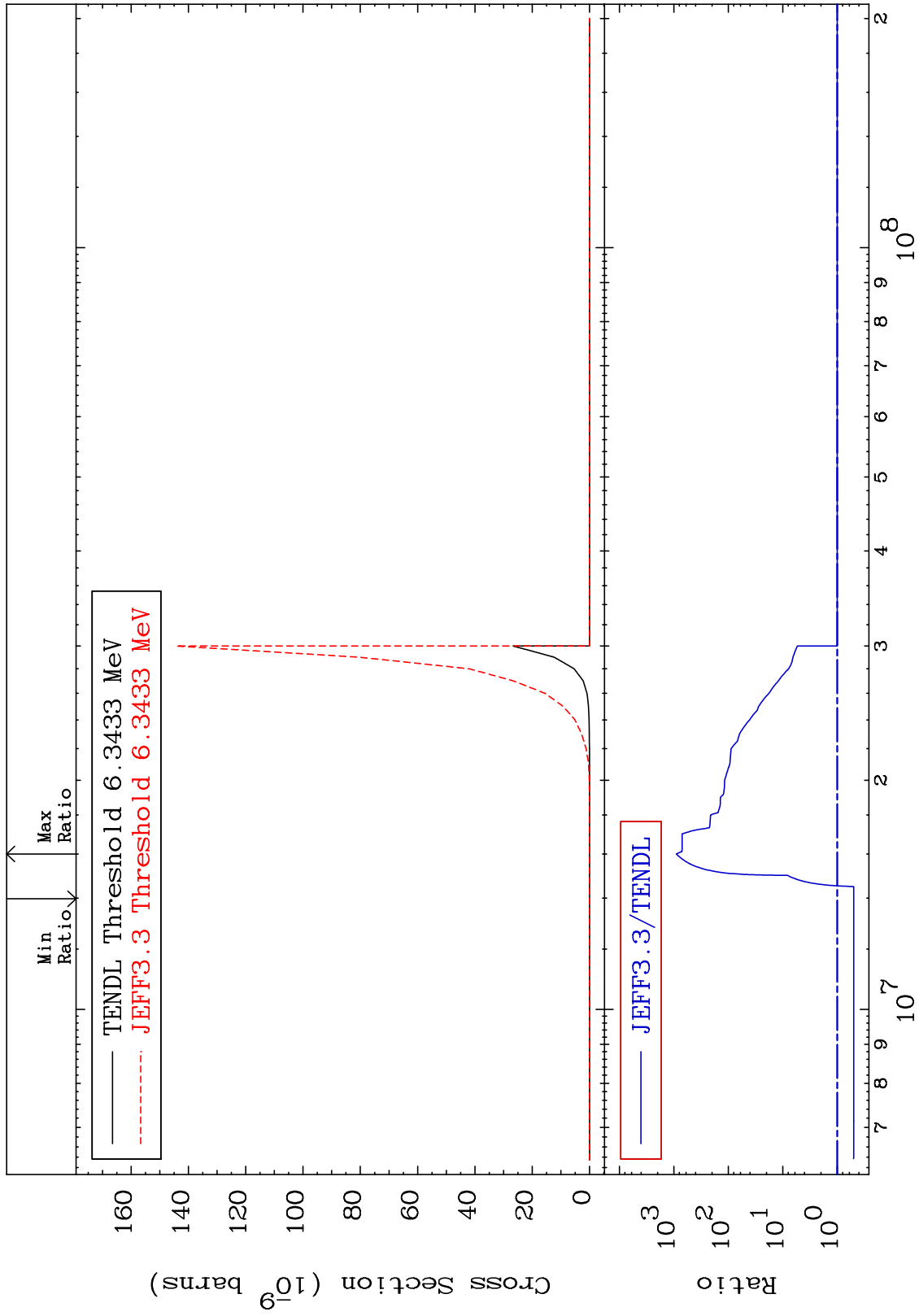
MAT 6025

(n,d) α

60-Nd-142

Cross Section

-50.15 To 9999. %



61

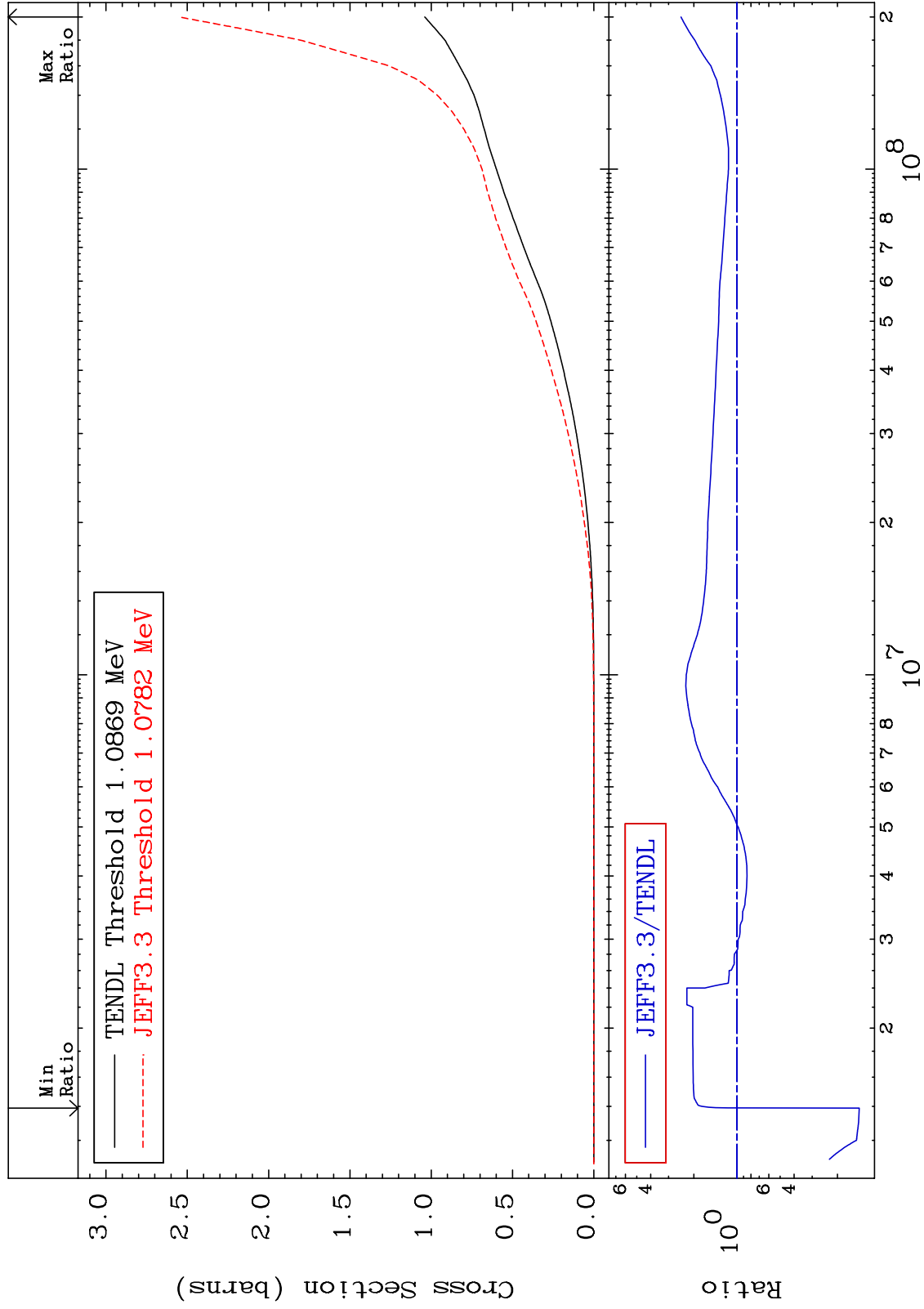
Incident Energy (eV)

60-Nd-142

MAT 6025

Hydrogen Production
Cross Section

60-Nd-142
-85.94 To 145.6 %



62

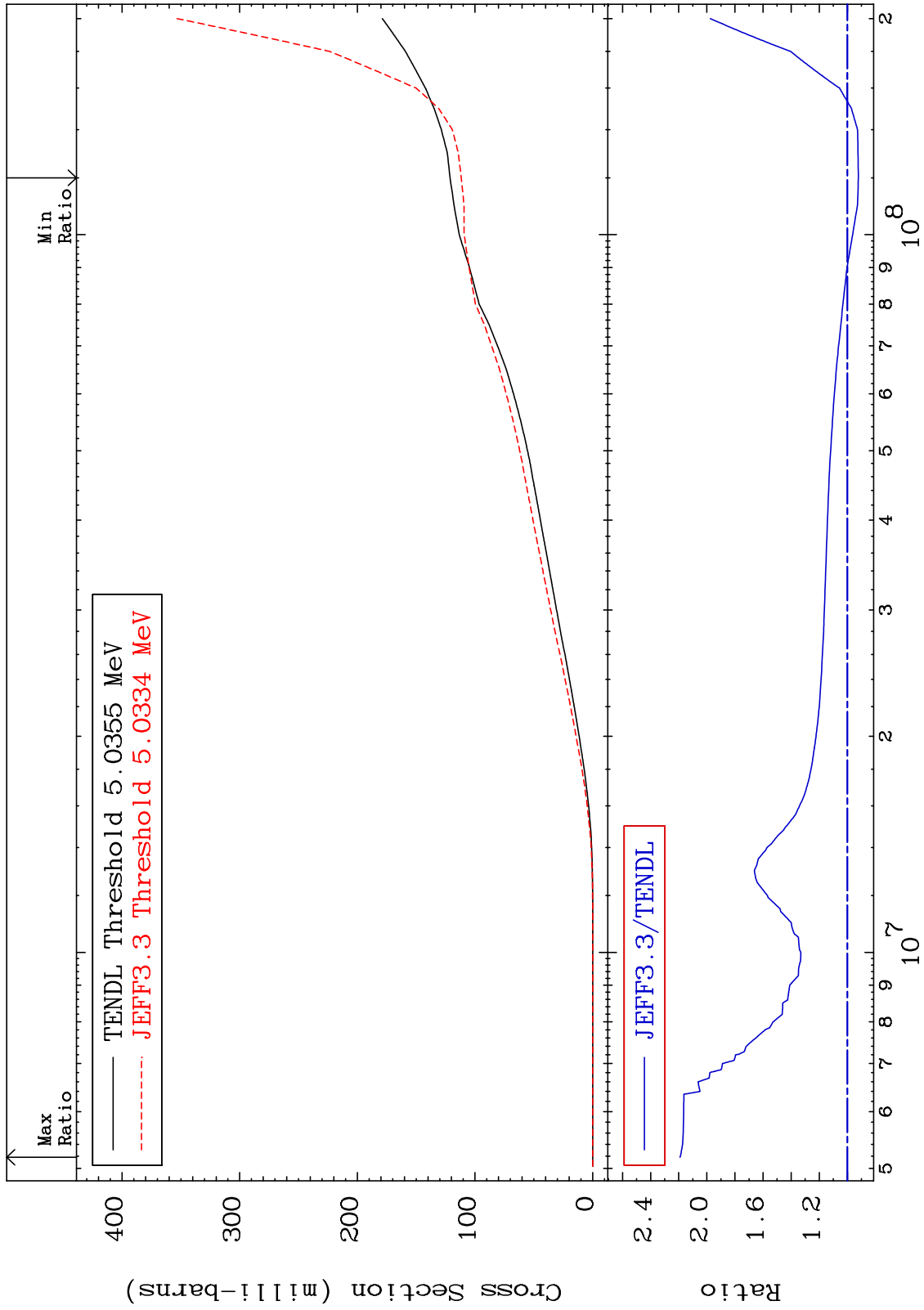
Incident Energy (eV)

60-Nd-142

MAT 6025

Deuterium Production
Cross Section

60-Nd-142
-7.863 To 119.1 %



63

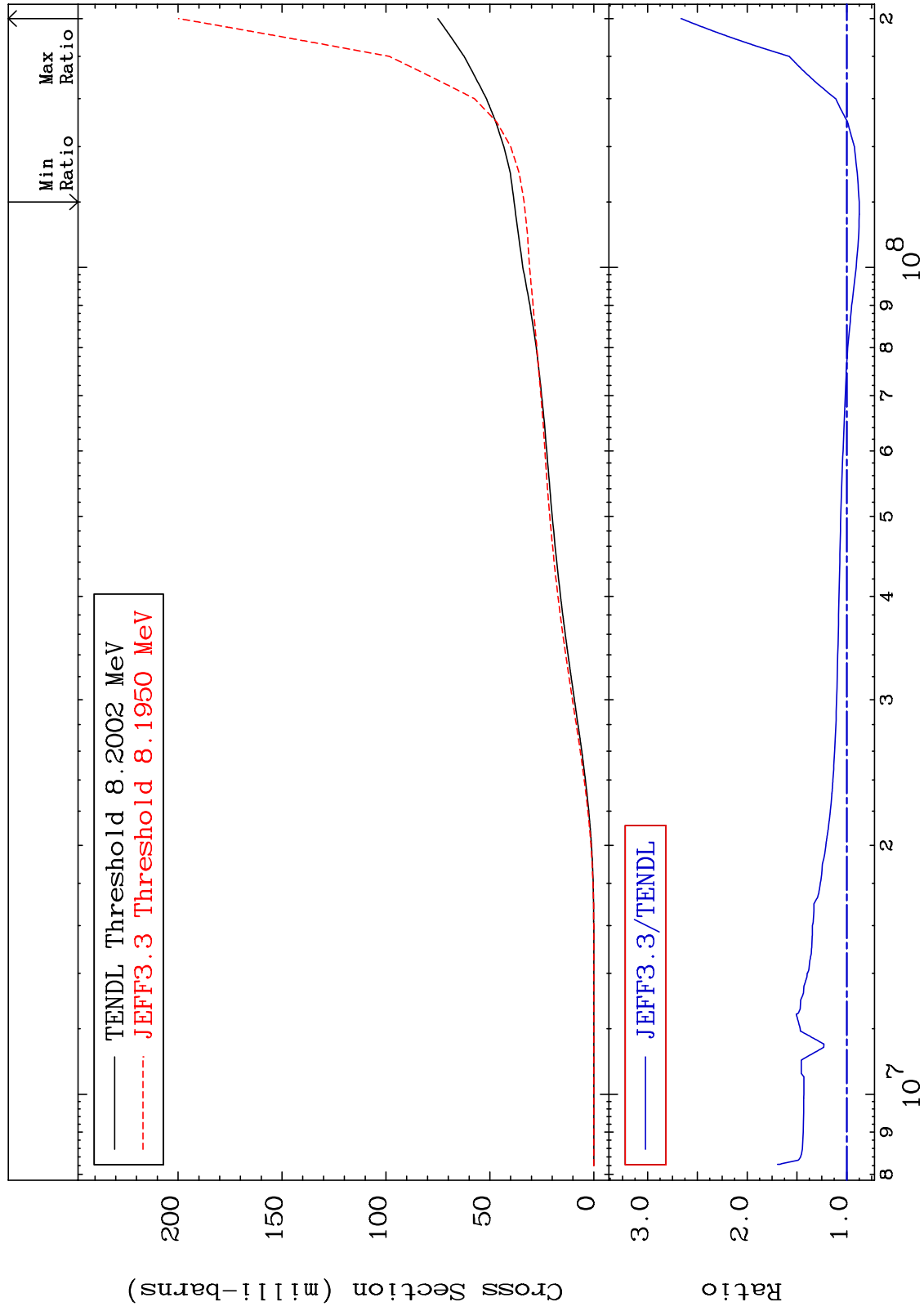
Incident Energy (eV)

60-Nd-142

MAT 6025

Tritium Production
Cross Section

60-Nd-142
-12.61 To 166.4 %



64

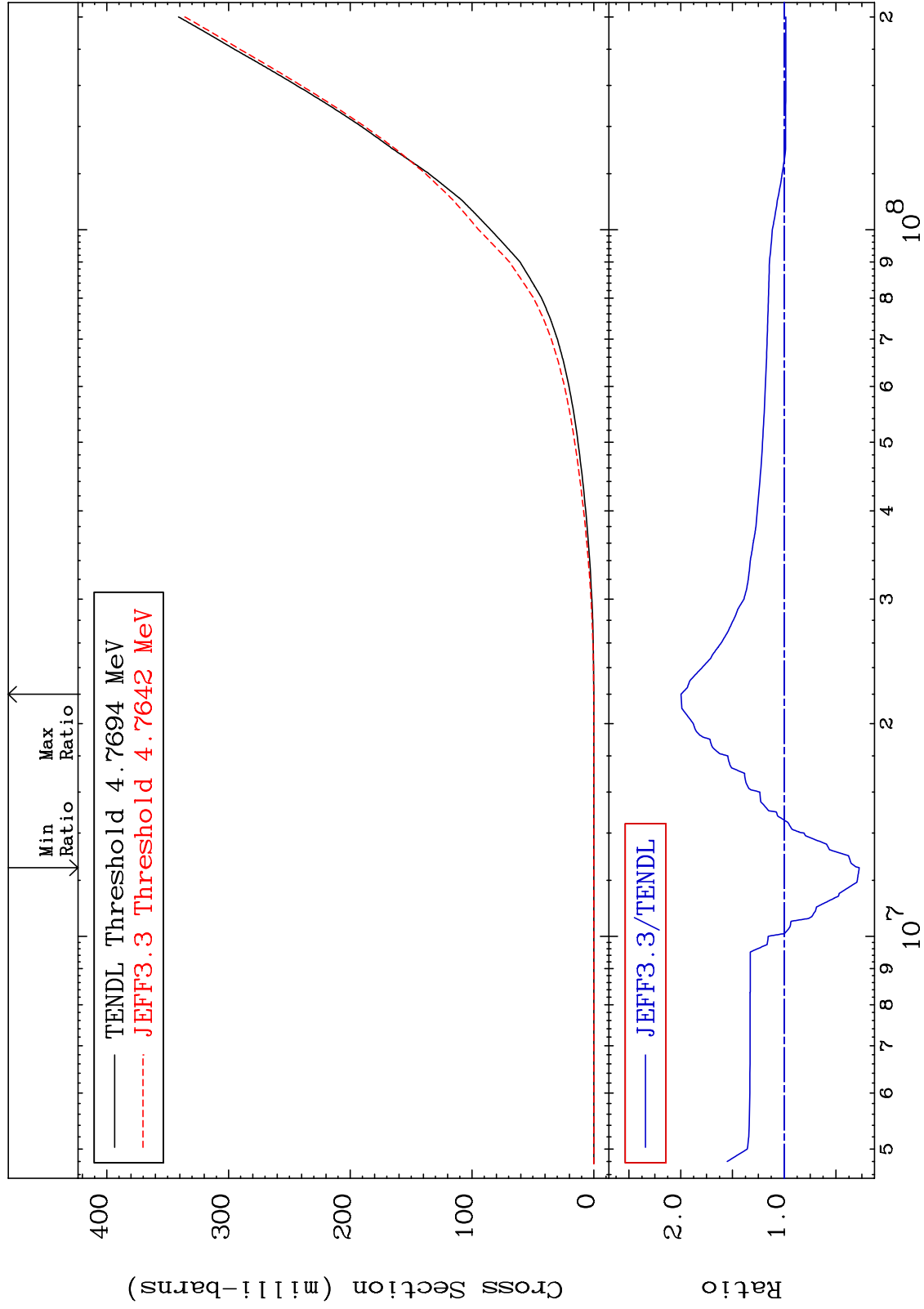
Incident Energy (eV)

60-Nd-142

MAT 6025

He-3 Production
Cross Section

60-Nd-142
-72.49 To 99.66 %



65

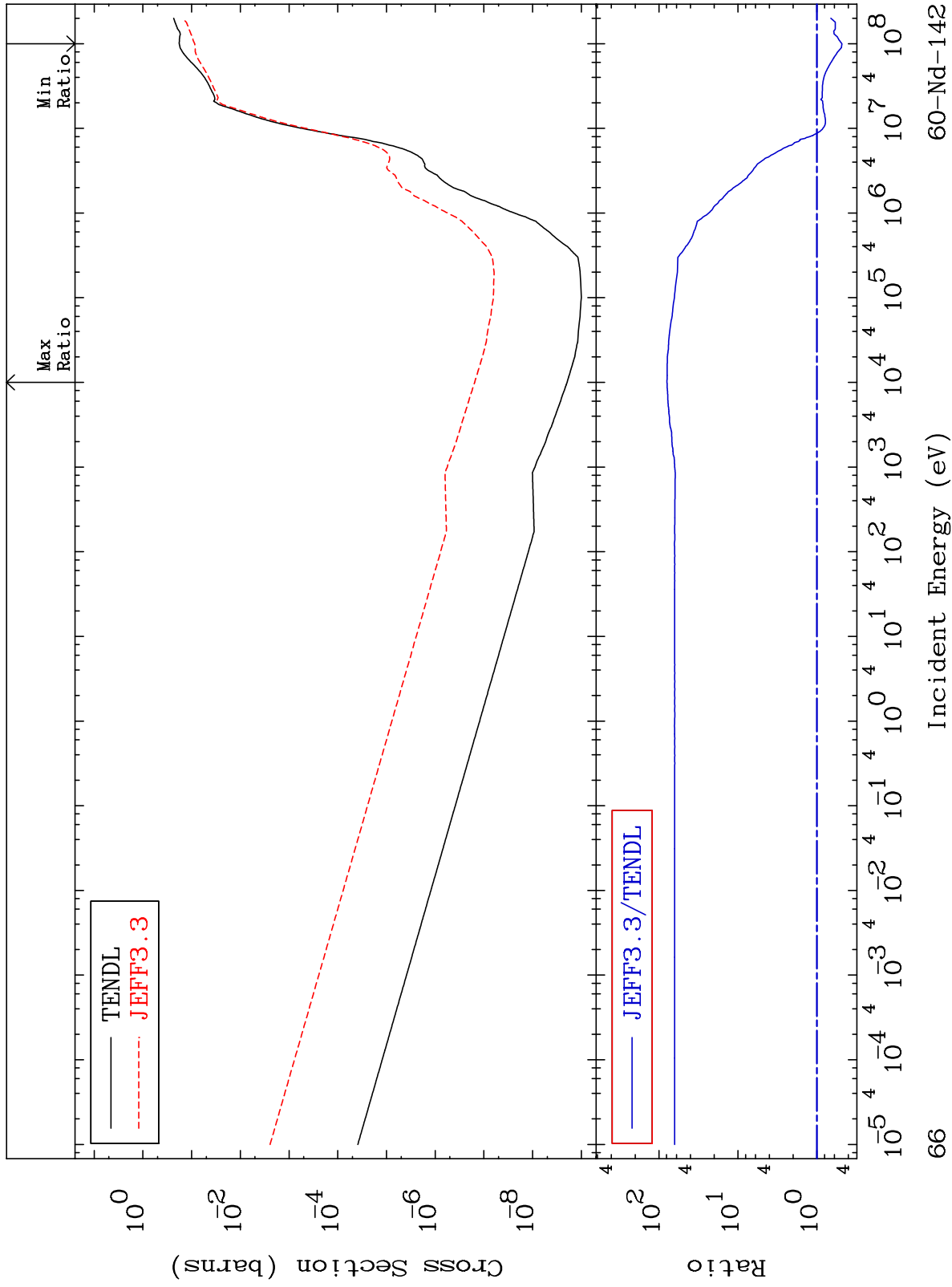
Incident Energy (eV)

60-Nd-142

MAT 6025

He-4 Production
Cross Section

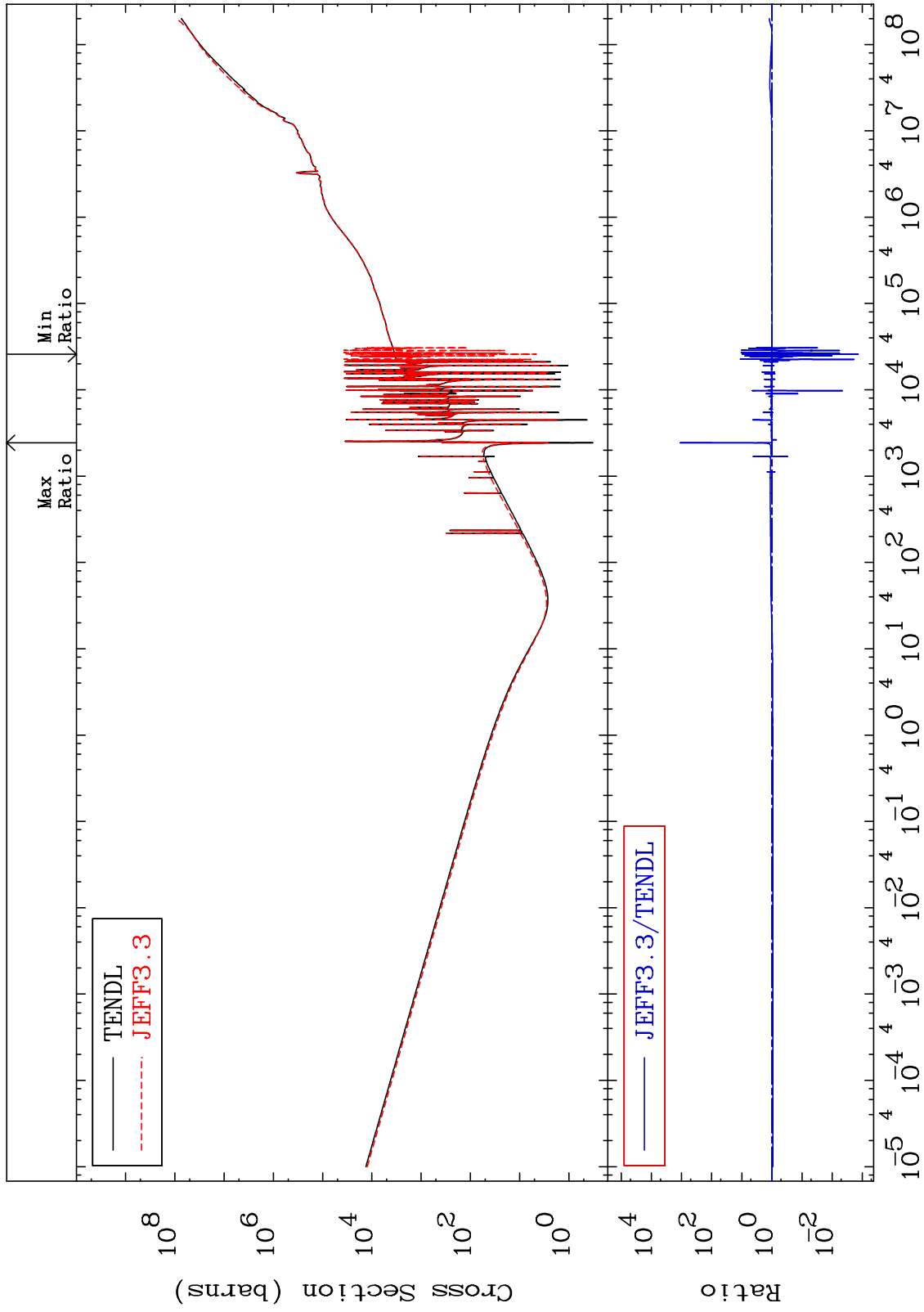
60-Nd-142
-51.85 To 7808. %



MAT 6025

Kerma total (eV-barns)
Cross Section

60-Nd-142
-99.87 To 9999. %



— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

67

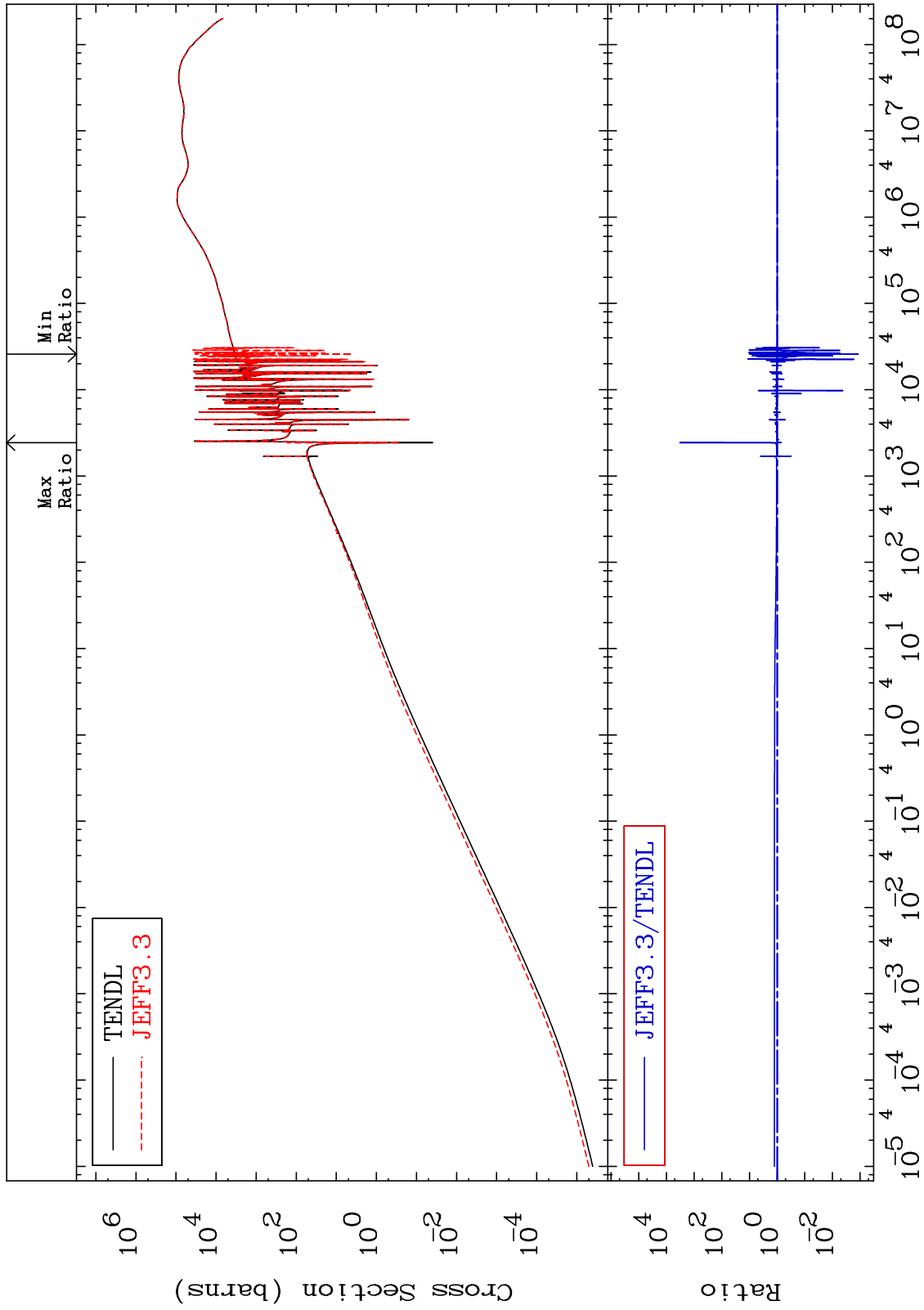
Incident Energy (eV)

60-Nd-142

MAT 6025

Kerma elastic
Cross Section

60-Nd-142
-99.88 To 9999. %



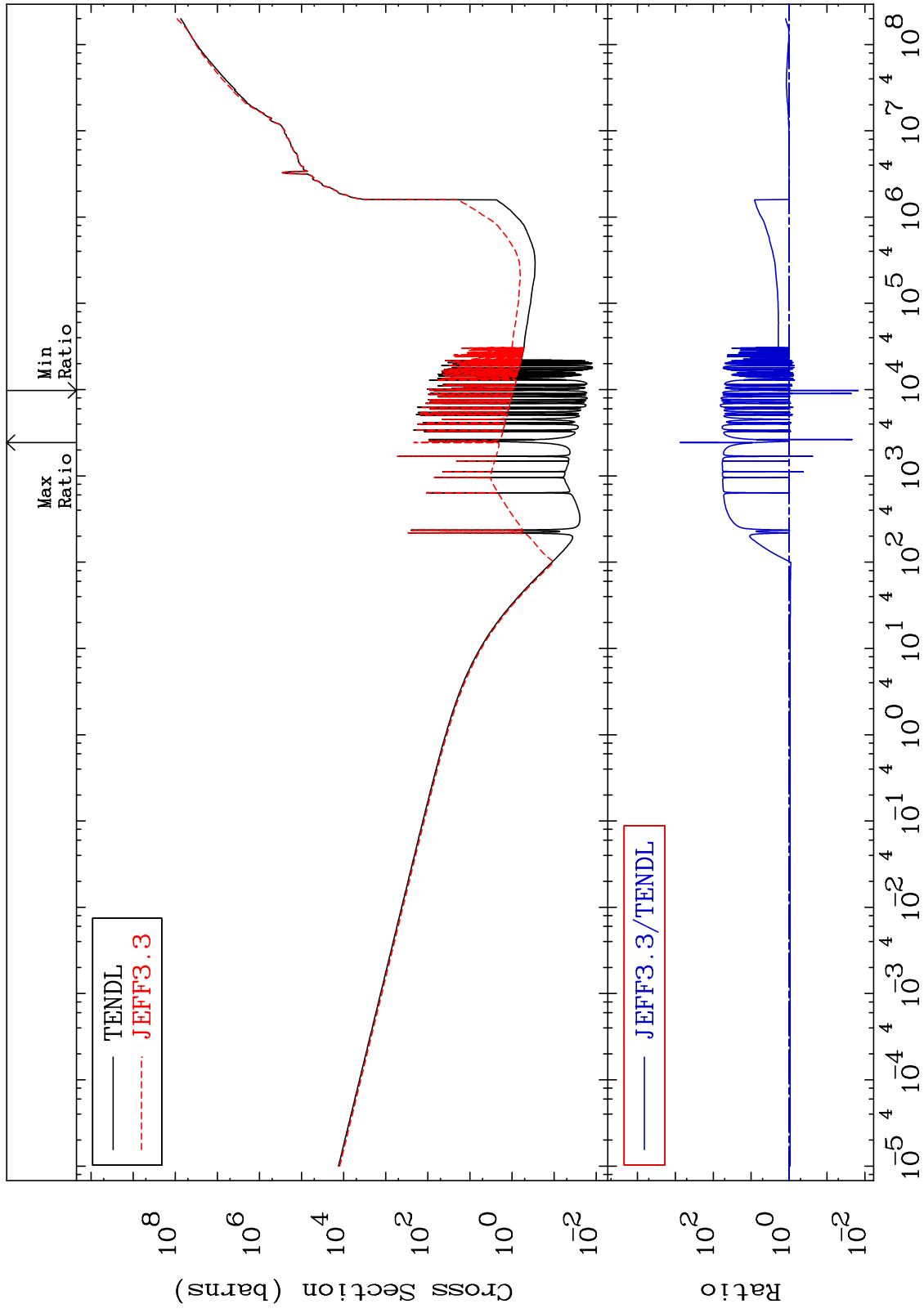
— TENDL
- - - JEFF3.3

— JEFF3.3/TENDL

MAT 6025

Kerma non-elastic (all but mt2)
Cross Section

60-Nd-142
-98.52 To 9999. %



69

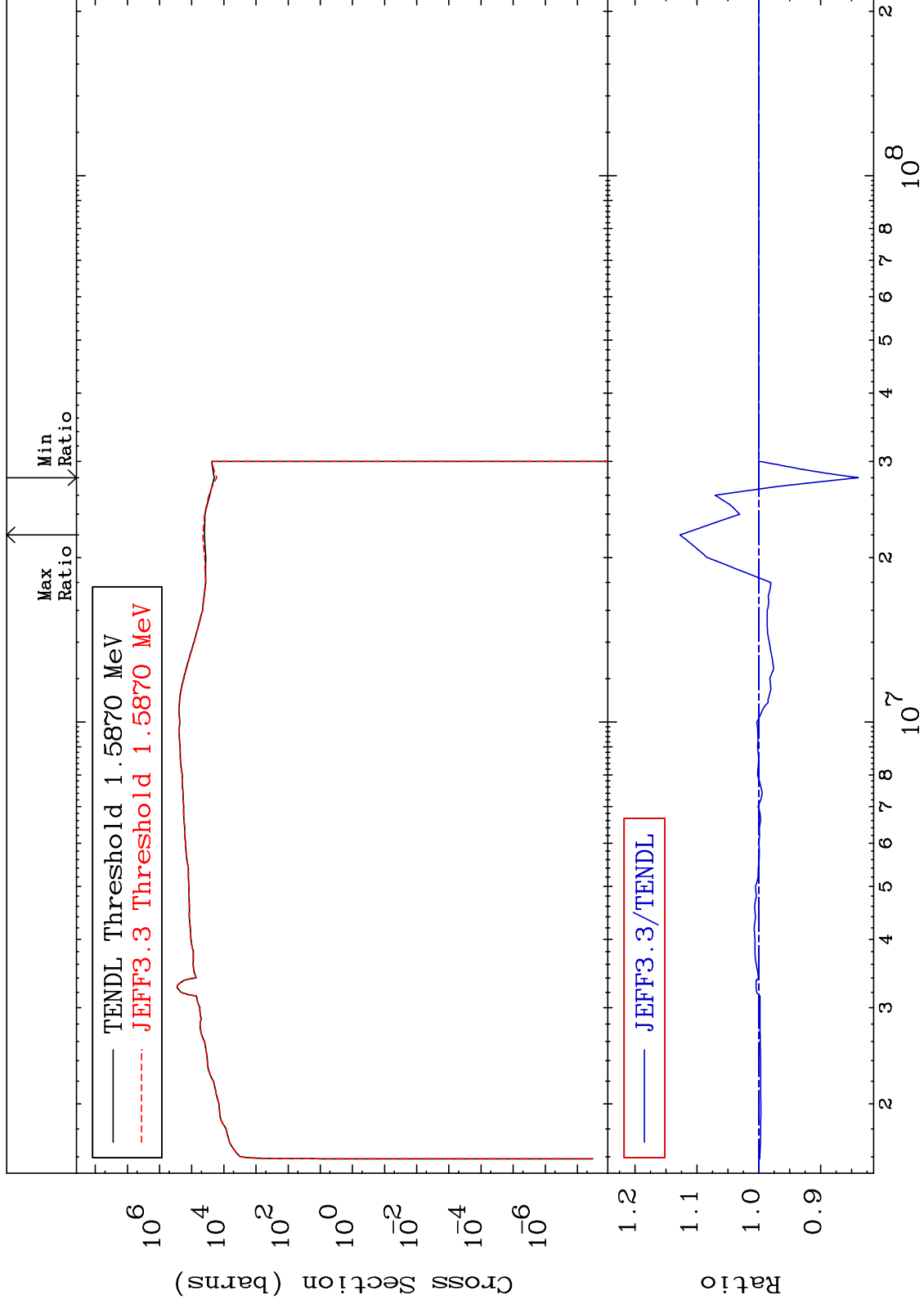
Incident Energy (eV)

60-Nd-142

MAT 6025

Kerma inelastic (mt51-91)
Cross Section

60-Nd-142
-16.11 To 12.74 %



70

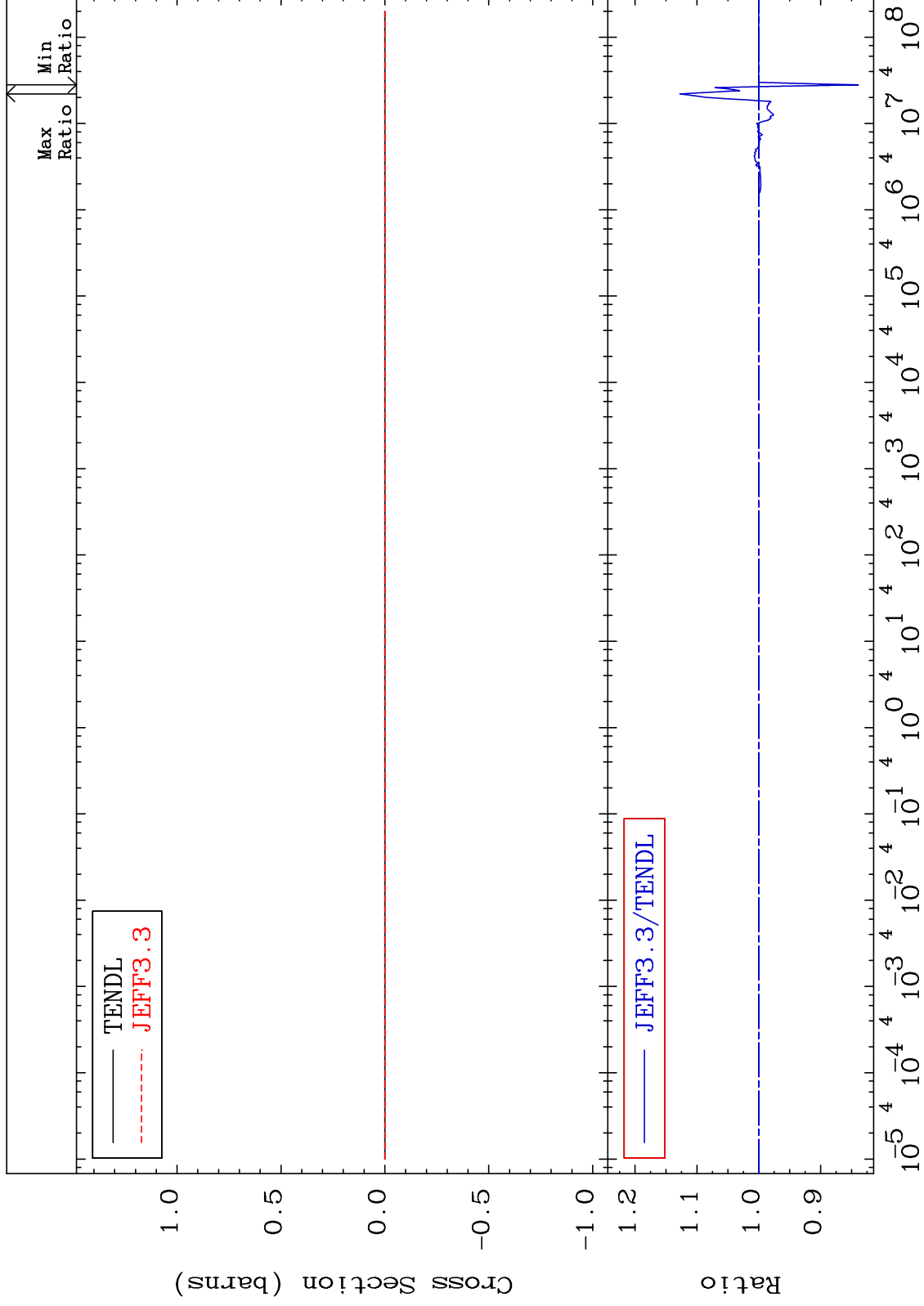
Incident Energy (eV)

60-Nd-142

MAT 6025

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

60-Nd-142
-16.11 To 12.74 %



71

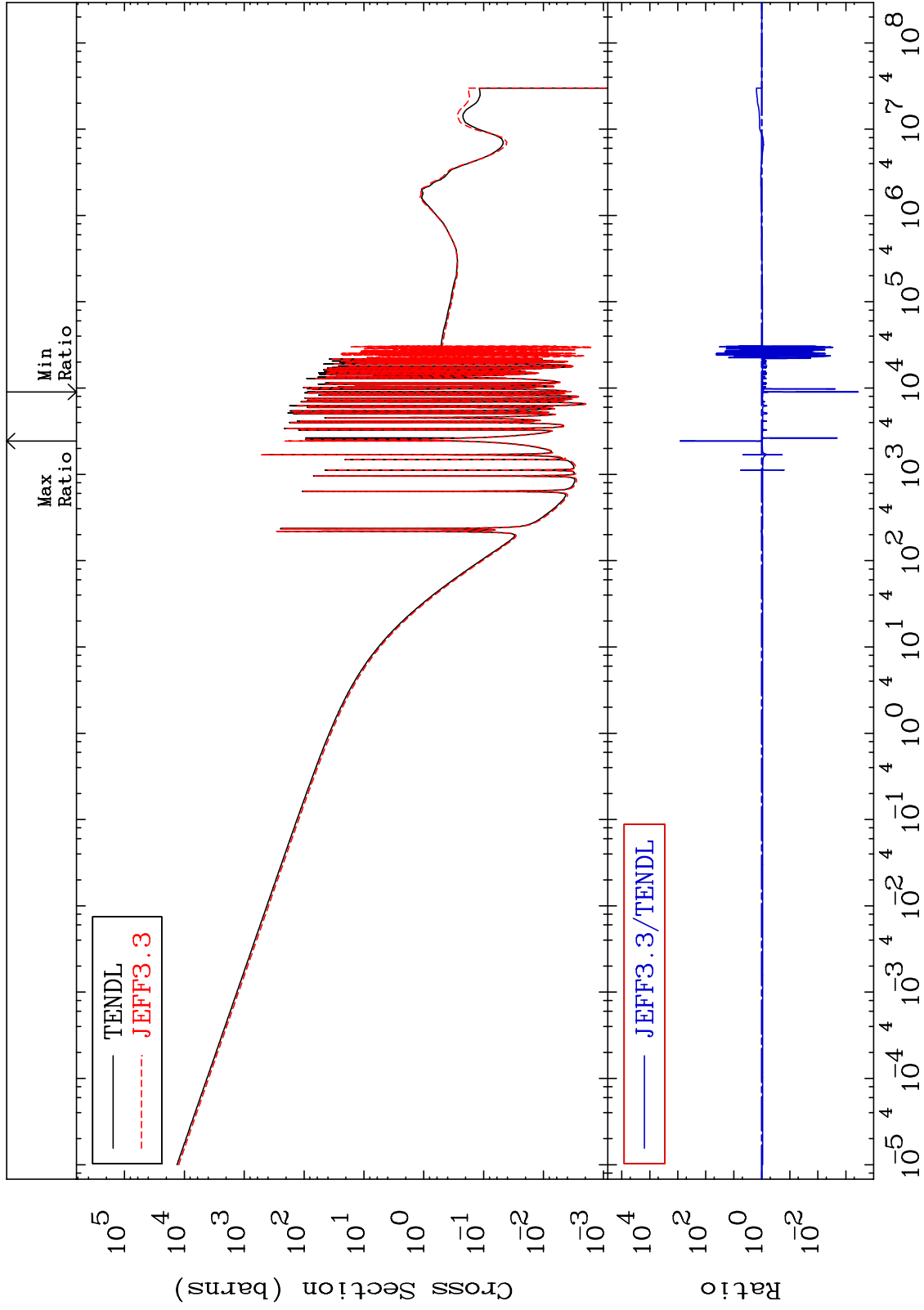
Incident Energy (eV)

60-Nd-142

MAT 6025

Kerma capture (mt102)
Cross Section

60-Nd-142
-99.96 To 9999. %



72

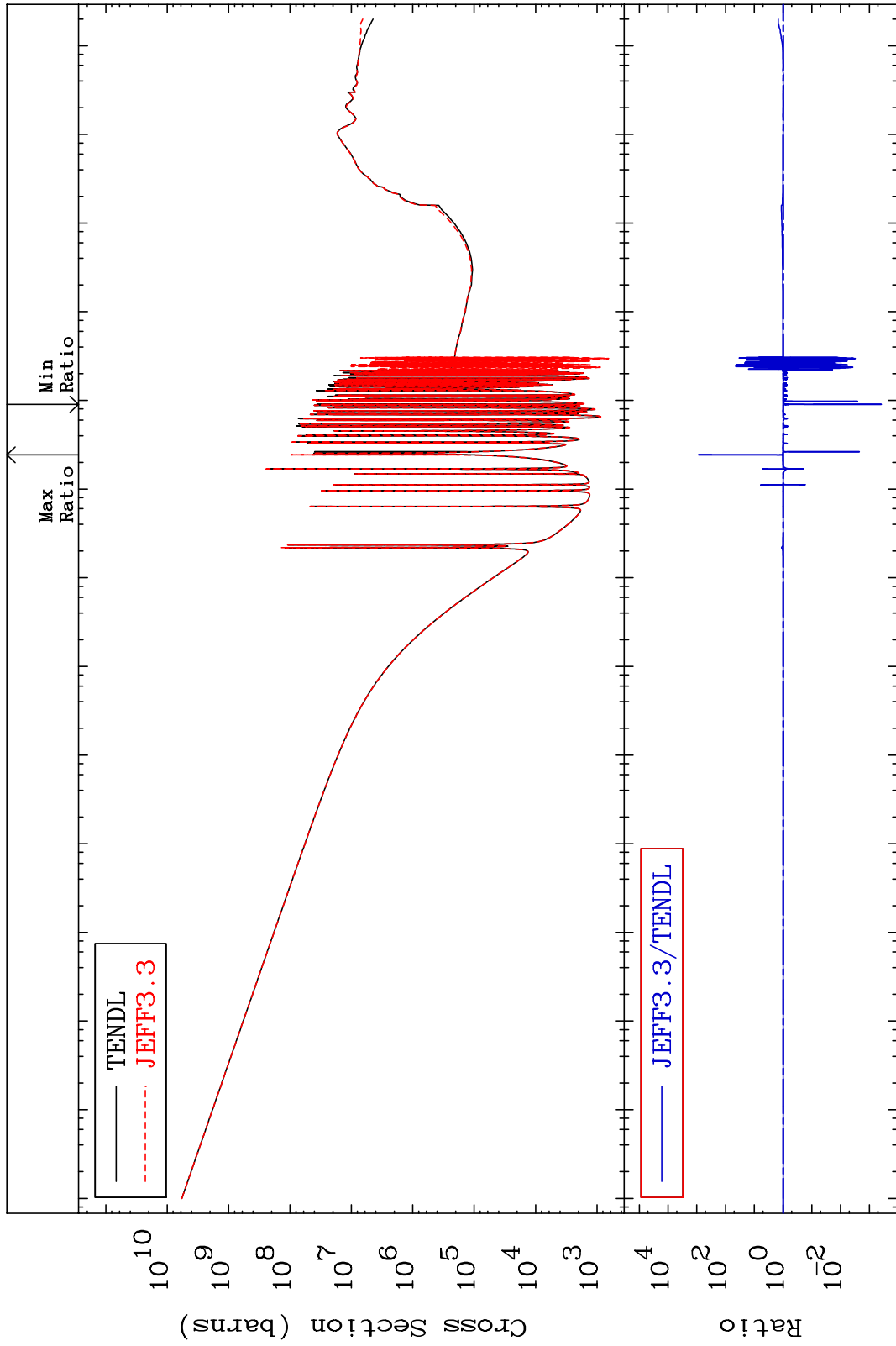
Incident Energy (eV)

60-Nd-142

MAT 6025

Total photon (eV-barns)
Cross Section

60-Nd-142
-99.96 To 9999. %



73

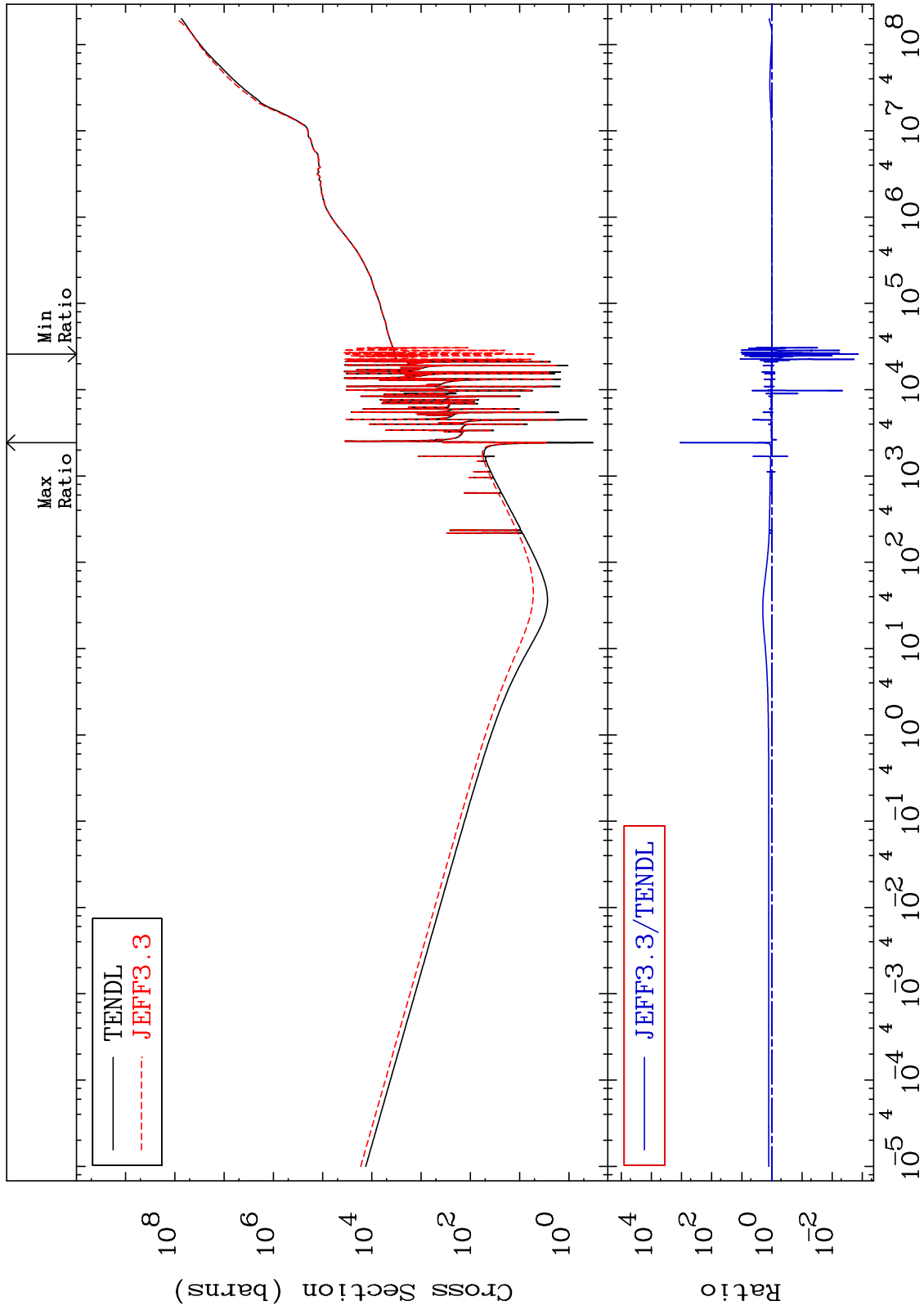
Incident Energy (eV)

60-Nd-142

MAT 6025

Total kinematic kerma (high limit)
Cross Section

60-Nd-142
-99.87 To 9999. %



74

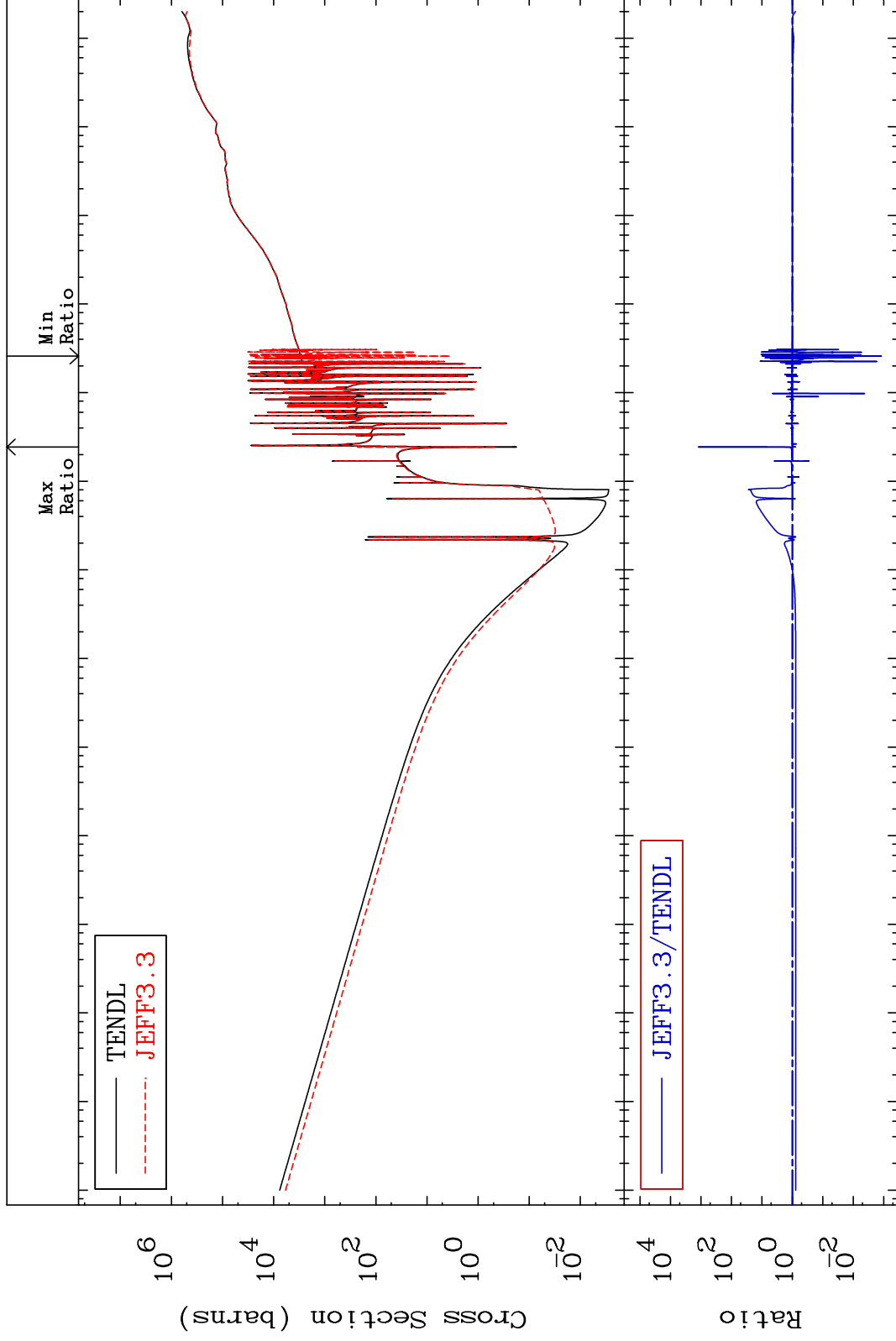
Incident Energy (eV)

60-Nd-142

MAT 6025

Dpa total (eV-barns)
Cross Section

60-Nd-142
-99.88 To 9999. %



75

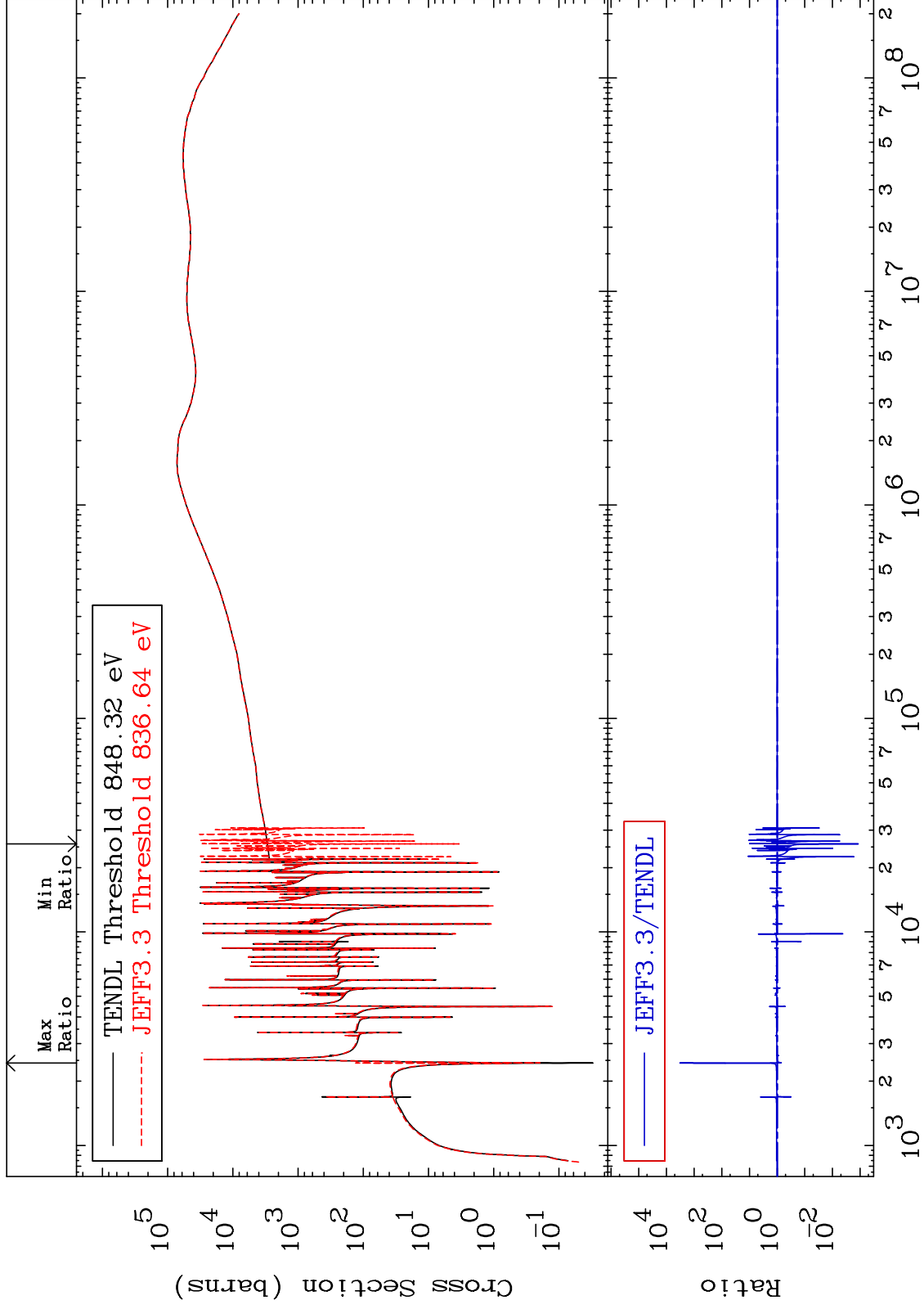
Incident Energy (eV)

60-Nd-142

MAT 6025

Dpa elastic (mt2)
Cross Section

60-Nd-142
-99.88 To 9999. %



76

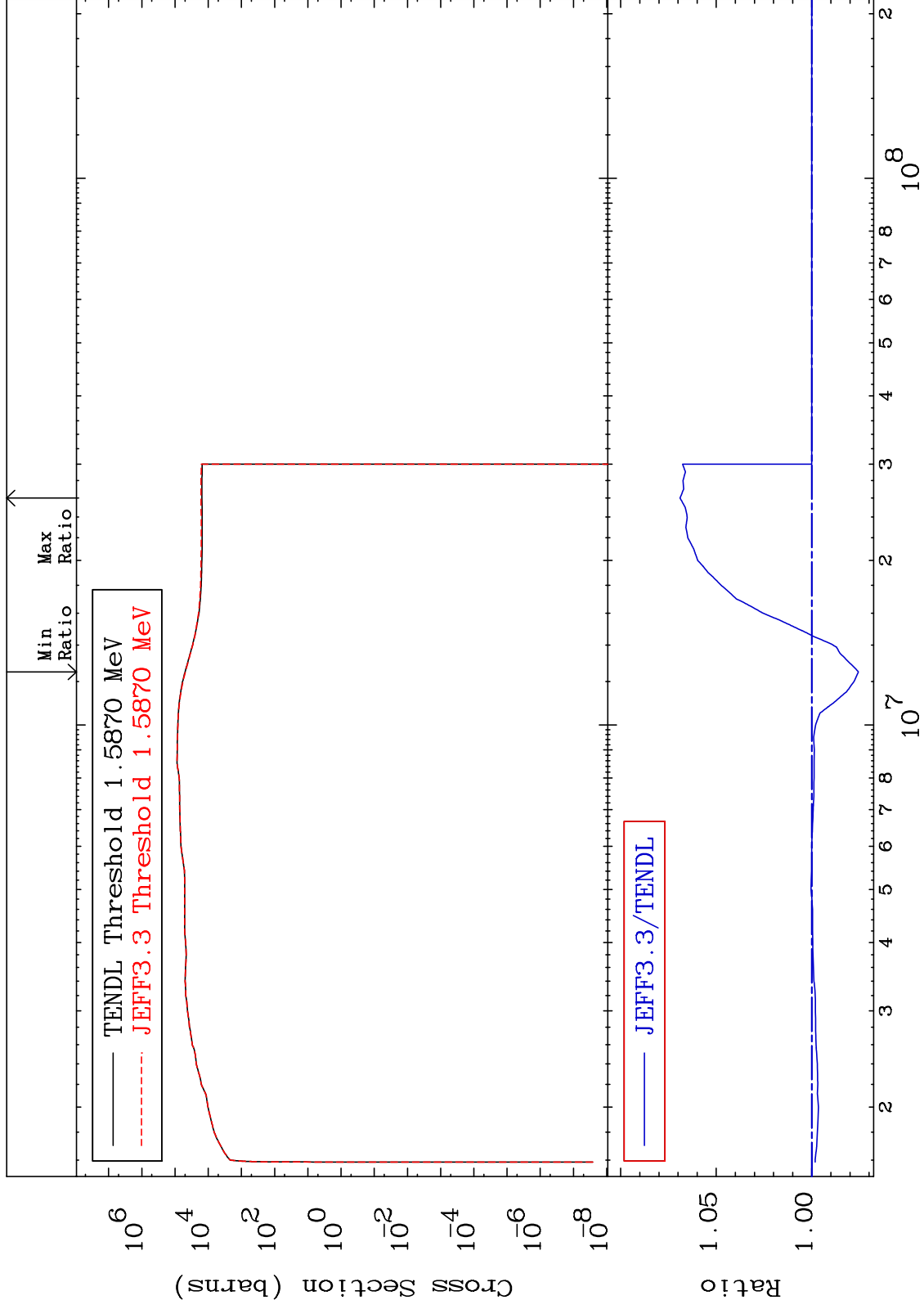
Incident Energy (eV)

60-Nd-142

MAT 6025

Dpa inelastic (mt51-91)
Cross Section

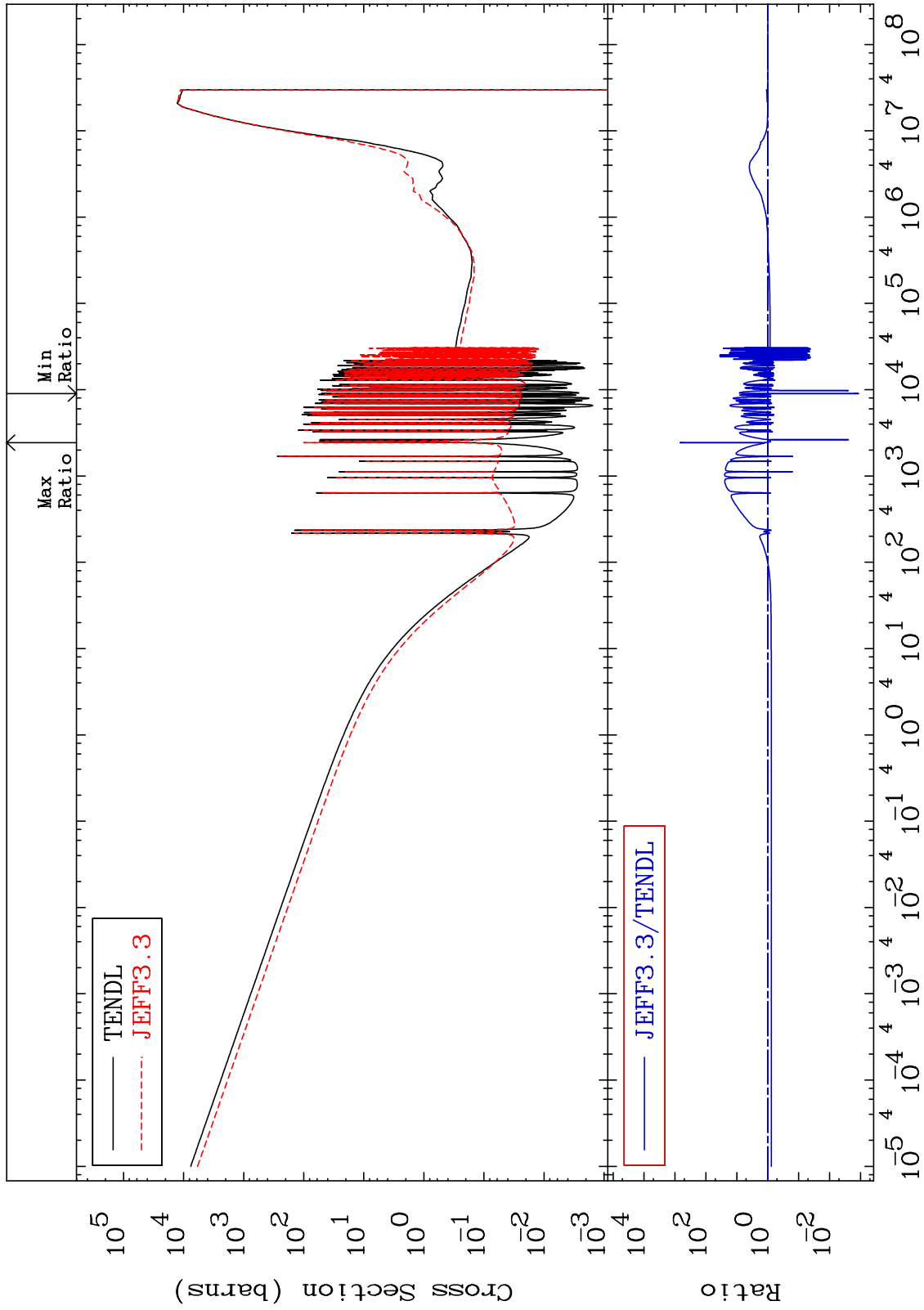
60-Nd-142
-2.440 To 6.895 %



MAT 6025

Dpa disappearance (mt102 -120)
Cross Section

60-Nd-142
-99.88 To 9999. %



78

Incident Energy (eV)

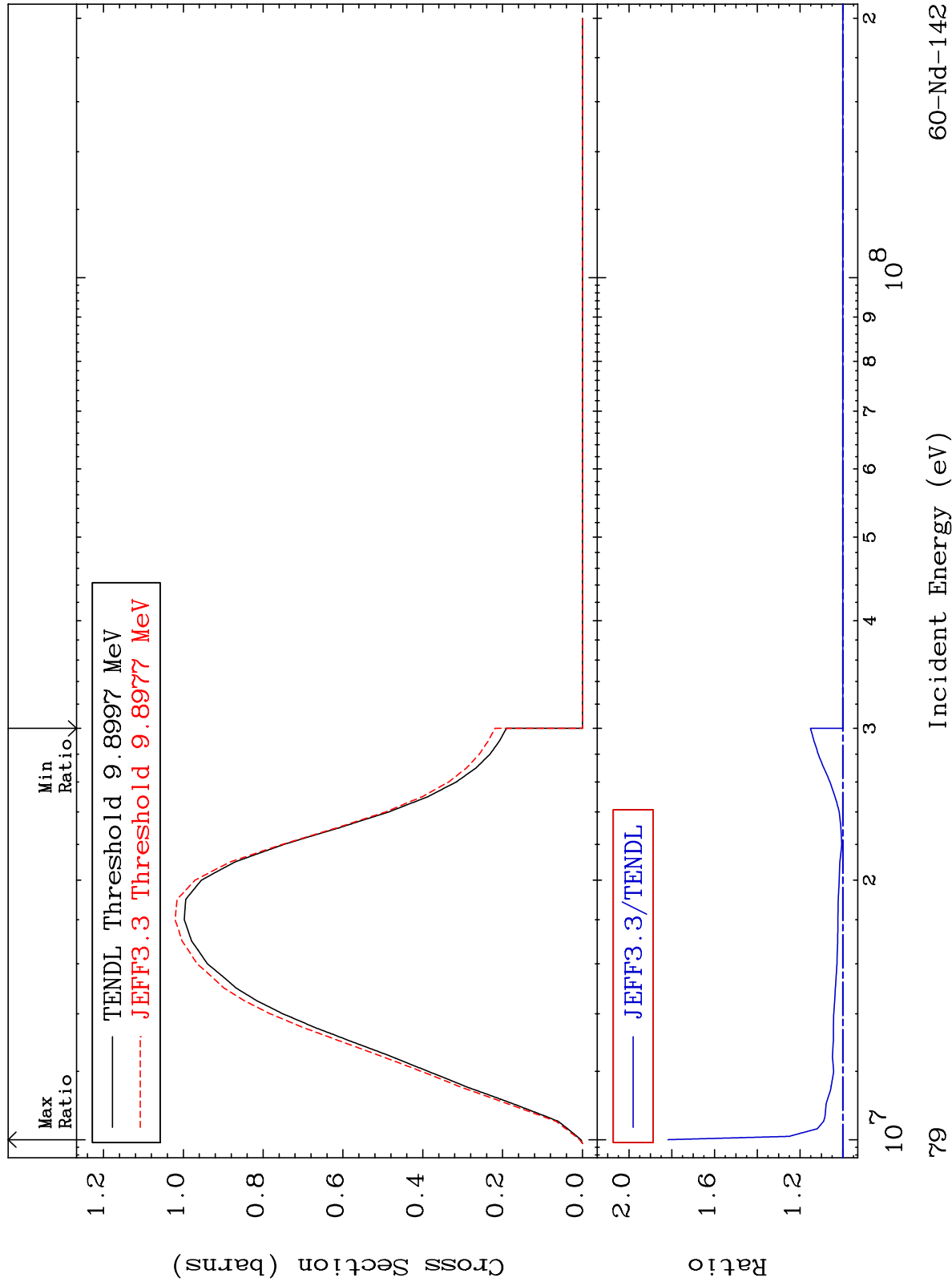
60-Nd-142

MAT 6025

(n,2n):60-Nd-141g

60-Nd-142

Radionuclide Production Cross Section 0.000 To 81.78 %

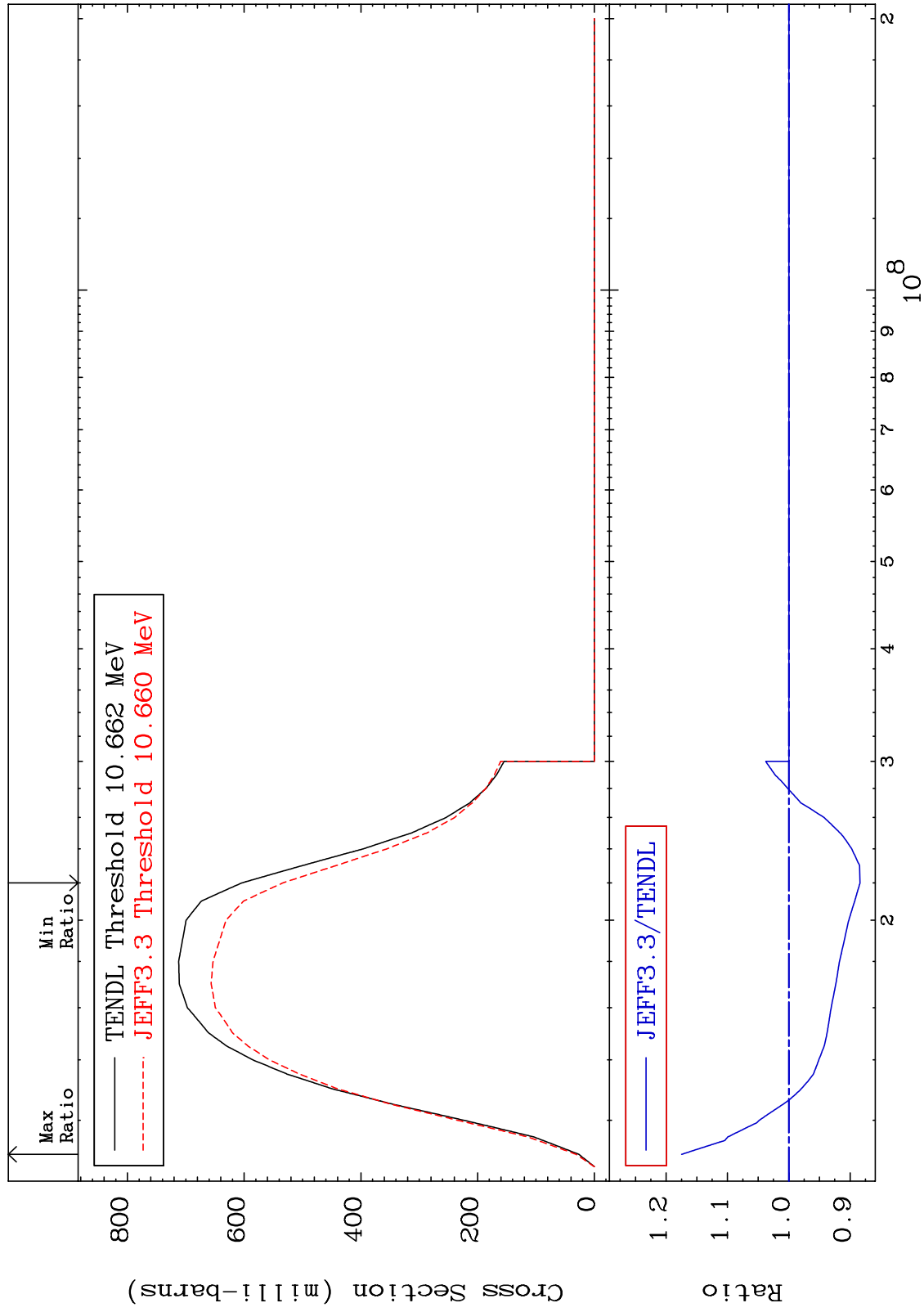


MAT 6025

(n,2n): 60-Nd-141m2

60-Nd-142

Radionuclide Production Cross Section -11.62 To 17.47 %



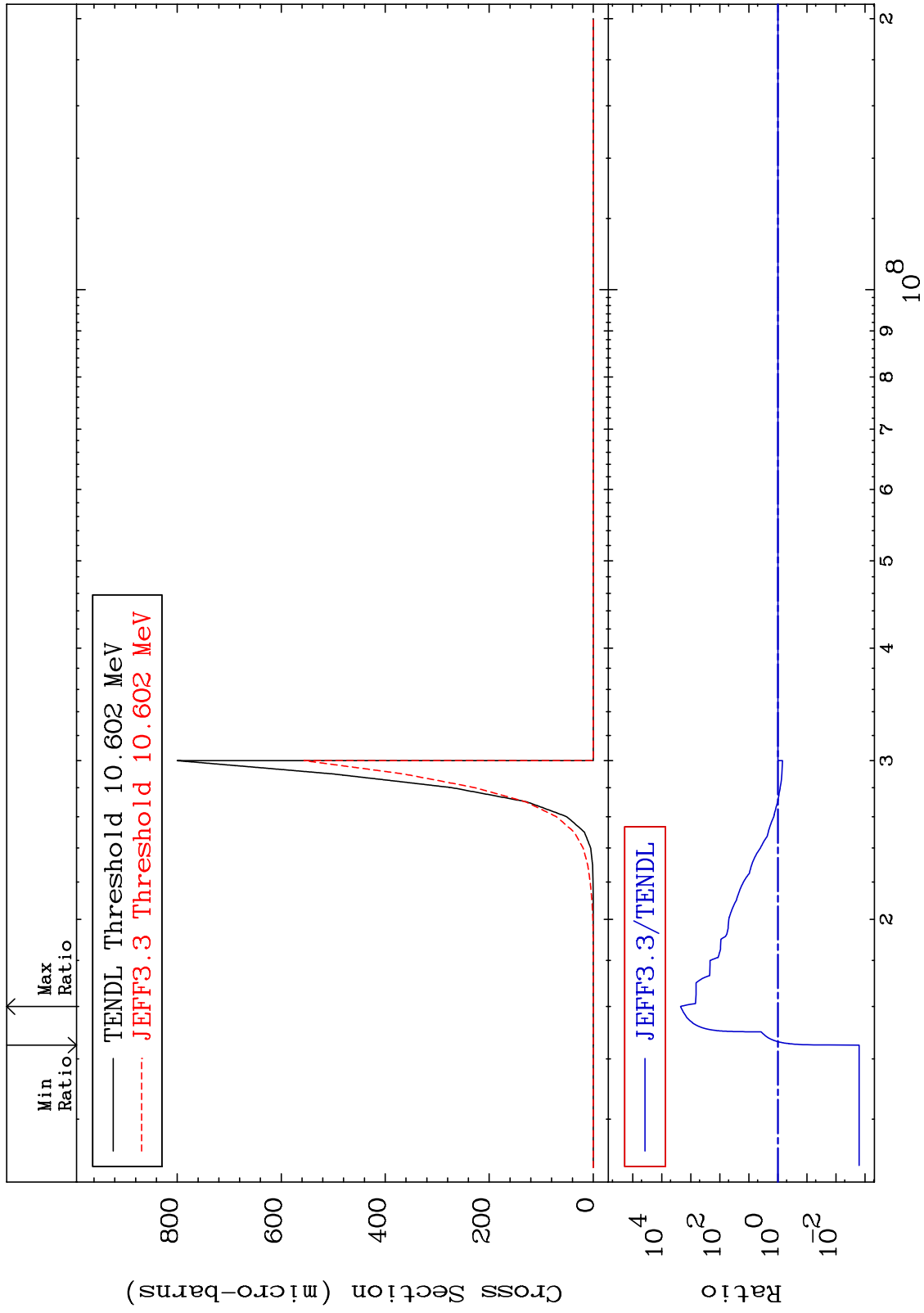
80

Incident Energy (eV)

60-Nd-142

MAT 6025

(n,2n) α :58-Ce-137g 60-Nd-142
Radionuclide Production Cross Section -99.84 To 9999. %

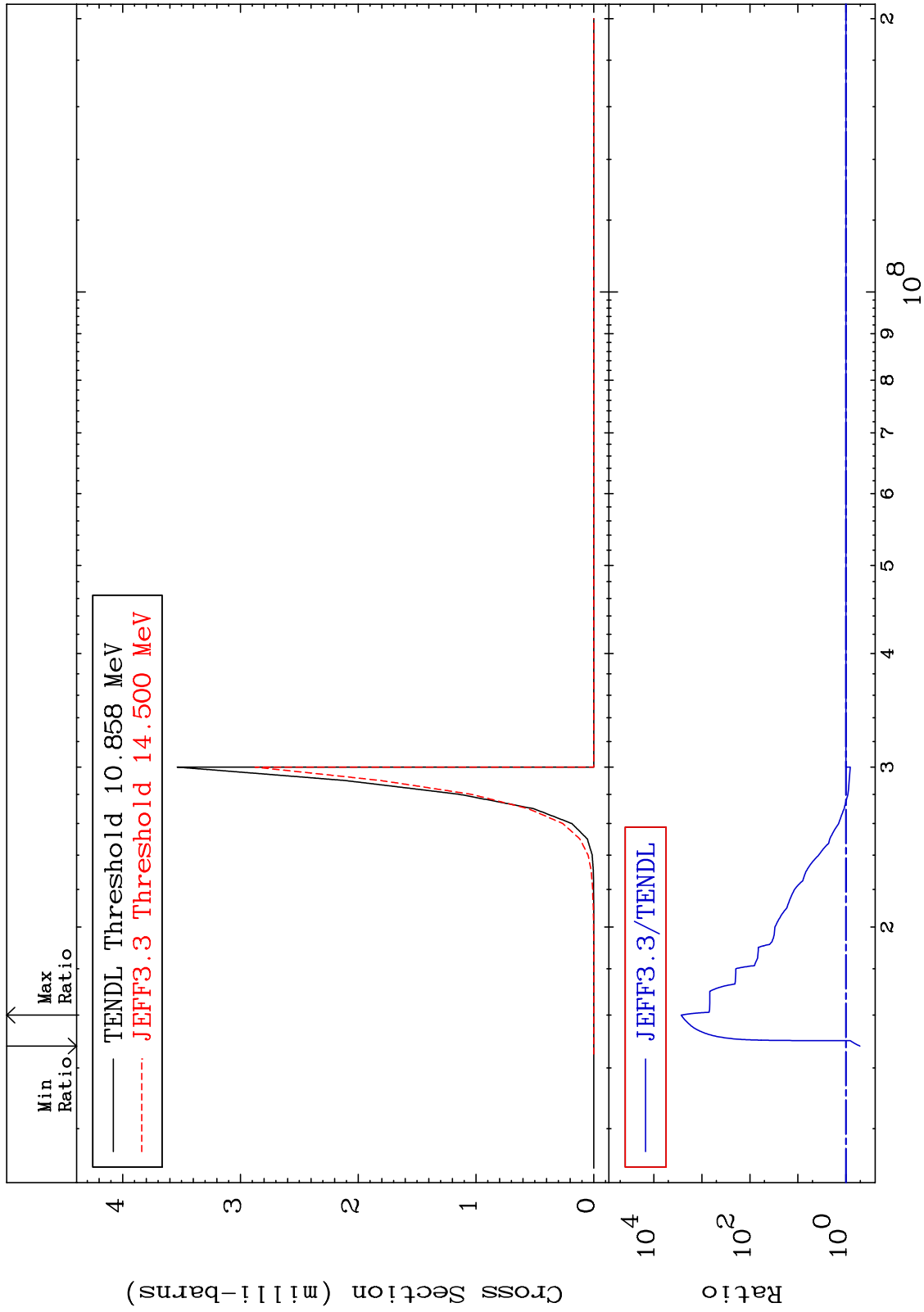


MAT 6025

(n,2n) α :58-Ce-137m2

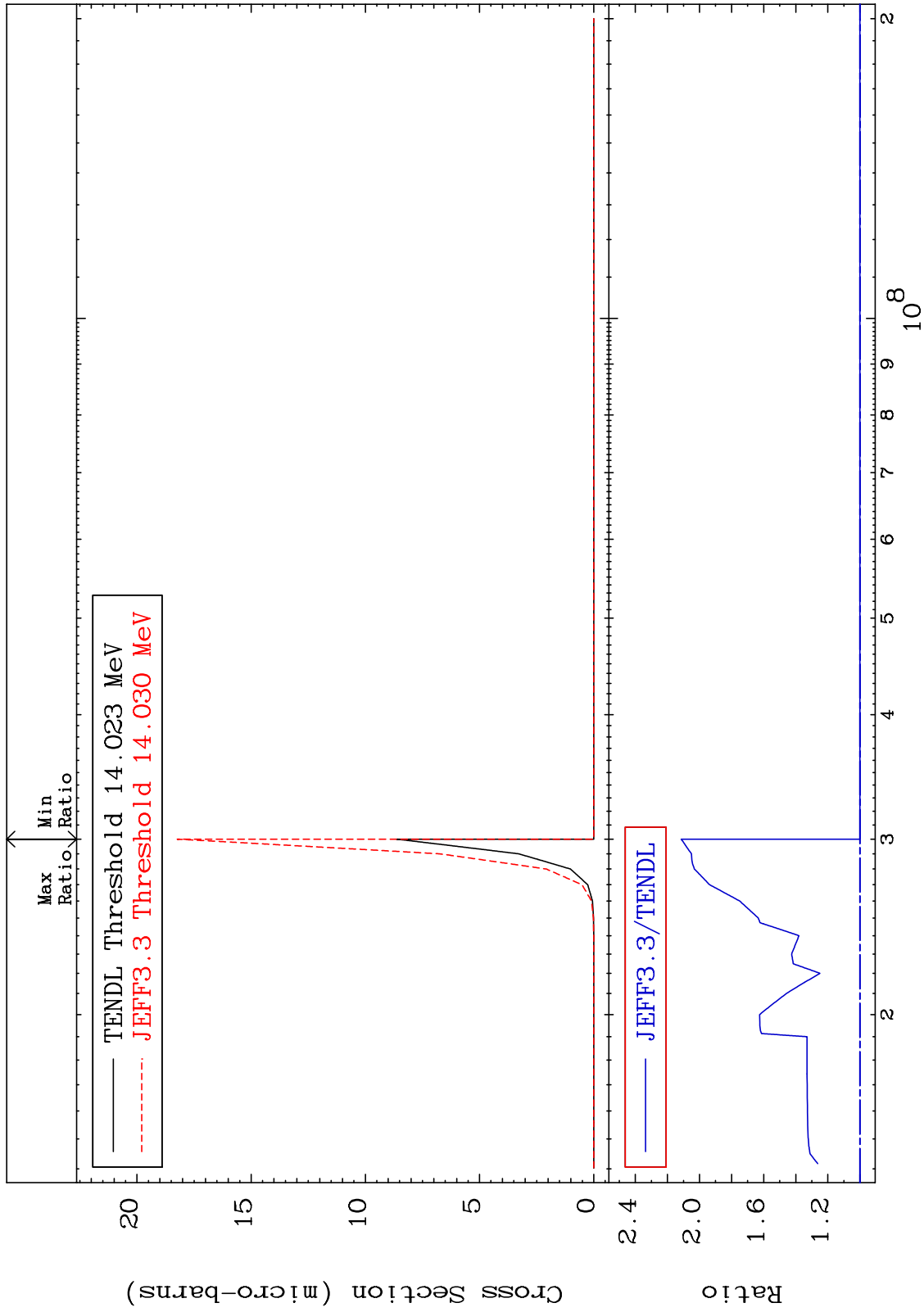
60-Nd-142

Radionuclide Production Cross Section -48.83 To 9999. %



MAT 6025

(n, n') He-3:58-Ce-139g 60-Nd-142
Radionuclide Production Cross Section 0.000 To 111.4 %

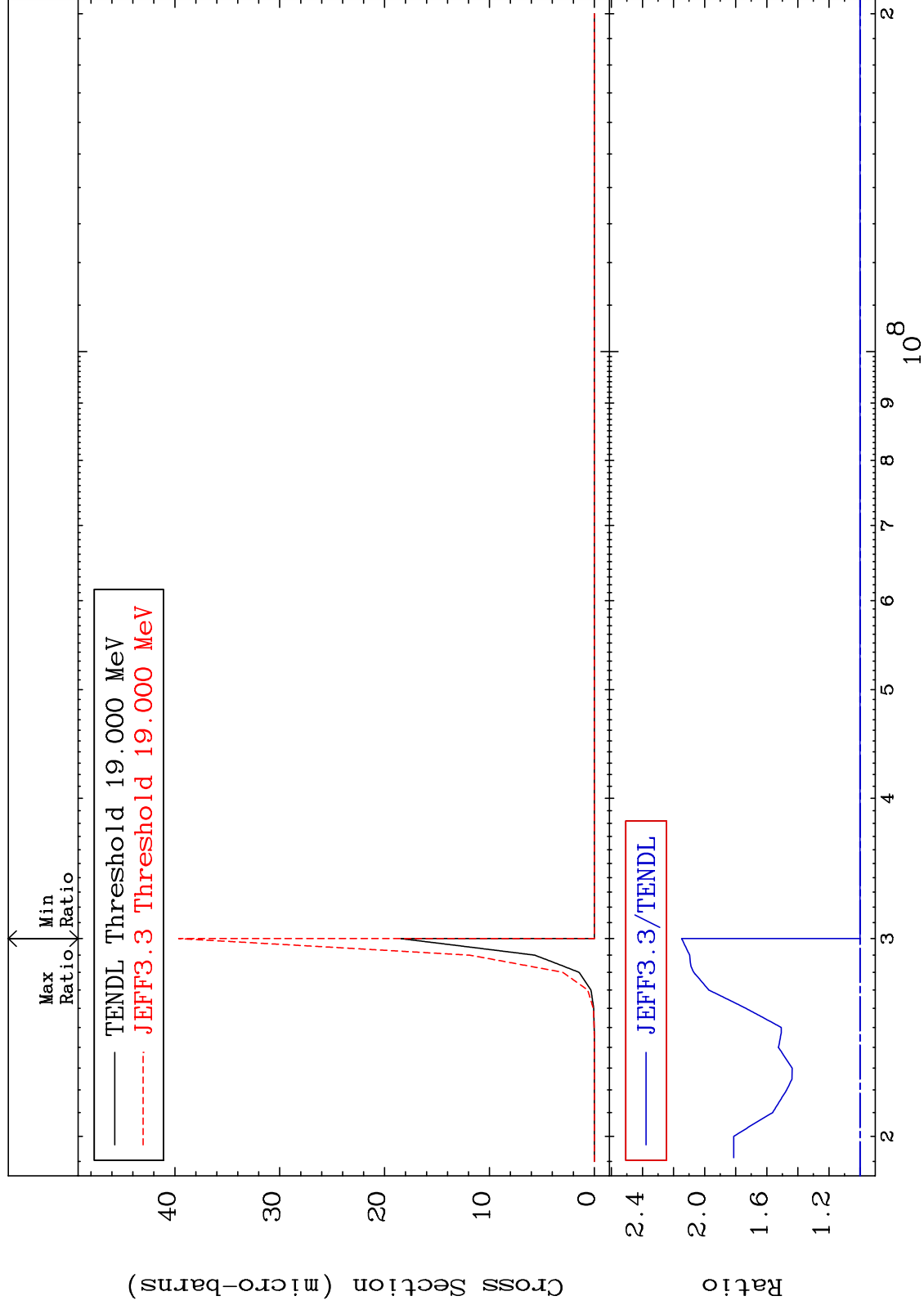


MAT 6025

(n, n') He-3:58-Ce-139m2

60-Nd-142

Radionuclide Production Cross Section 0.000 To 114.8 %

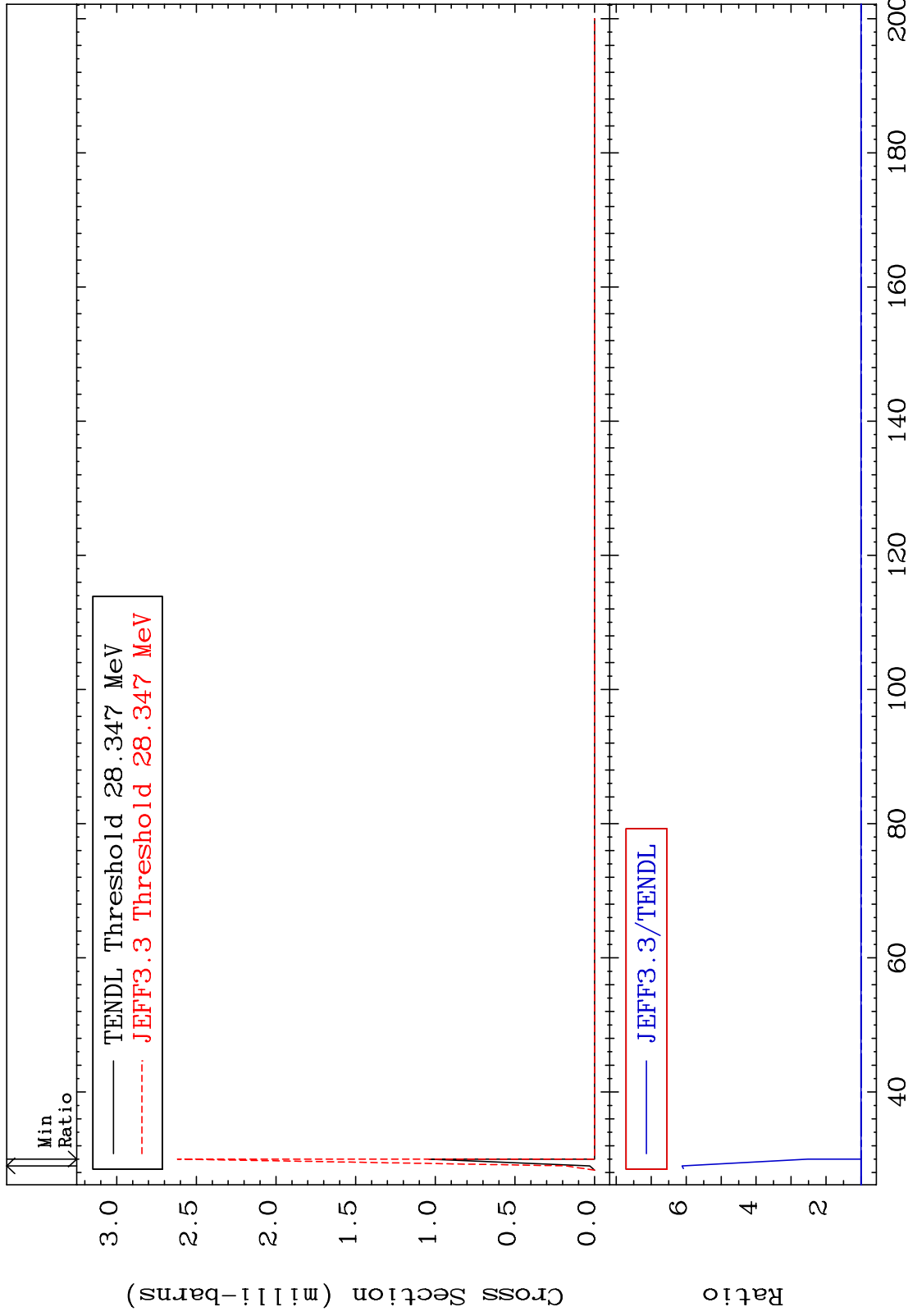


MAT 6025

(n,4n):60-Nd-139g

60-Nd-142

Radionuclide Production Cross Section 0.000 To 511.5 %



85

Incident Energy (MeV)

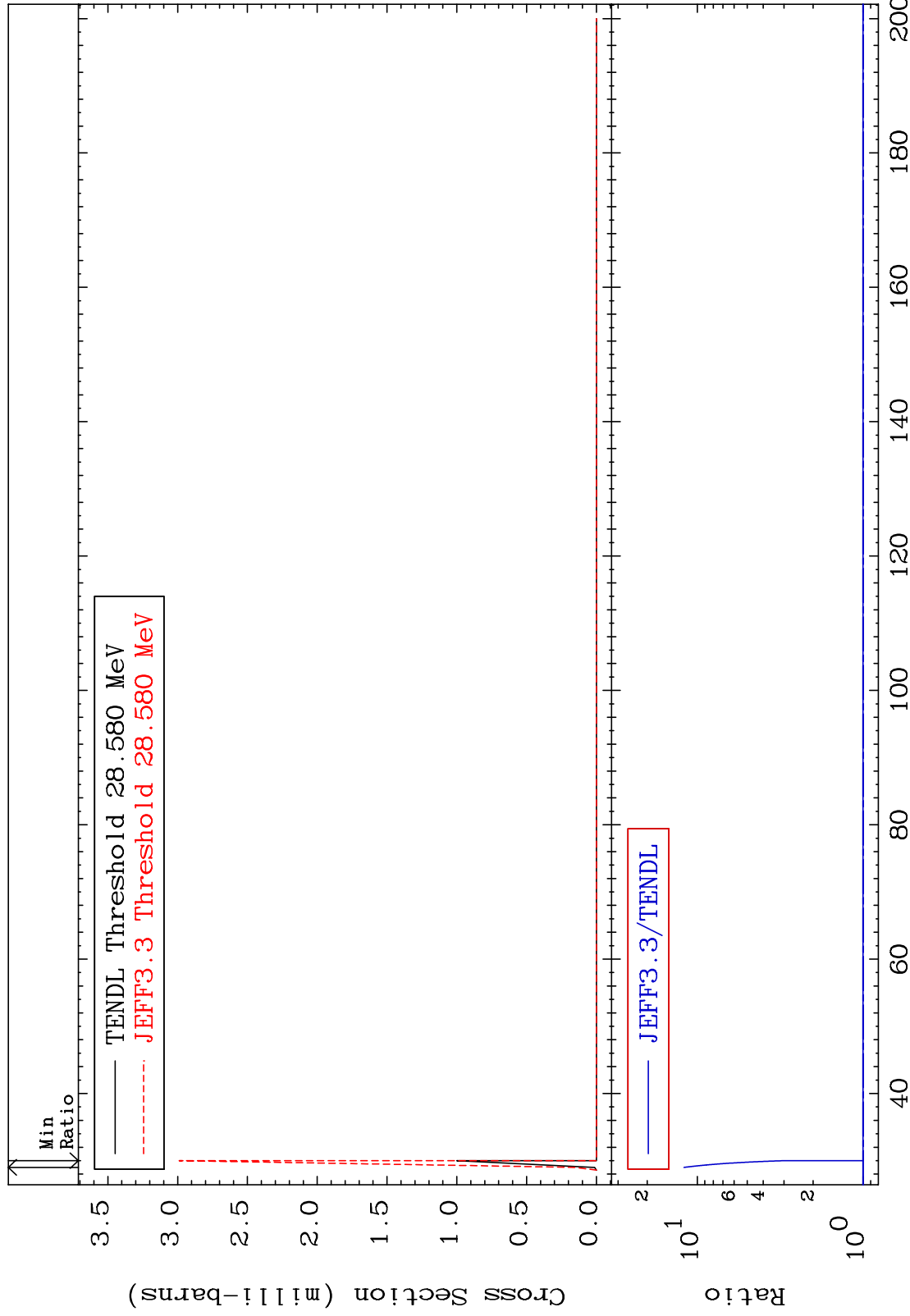
60-Nd-142

MAT 6025

(n, 4n): 60-Nd-139m2

60-Nd-142

Radionuclide Production Cross Section 0.000 To 1101. %

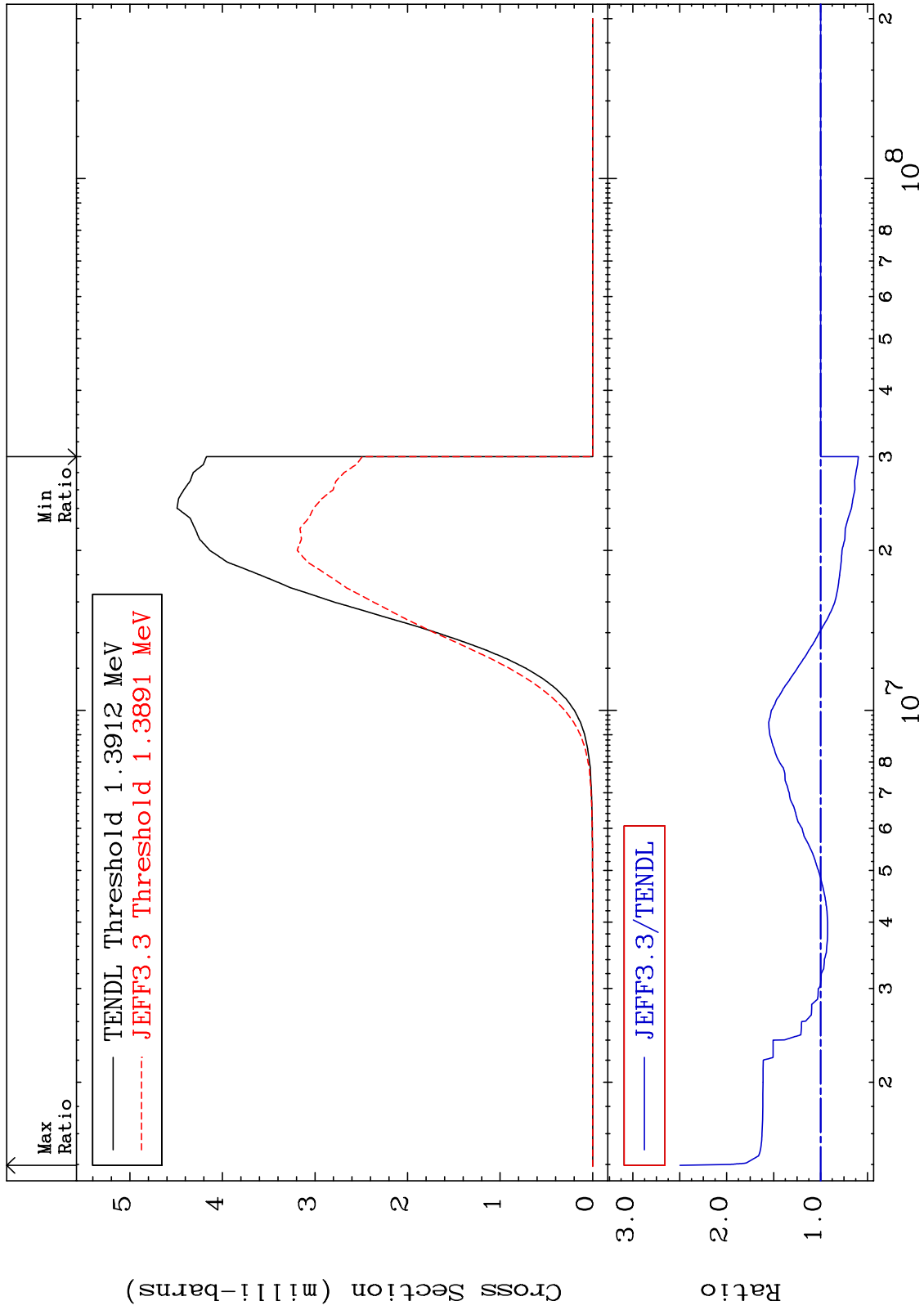


MAT 6025

(n,p):59-Pr-142g

60-Nd-142

Radionuclide Production Cross Section -40.34 To 149.8 %

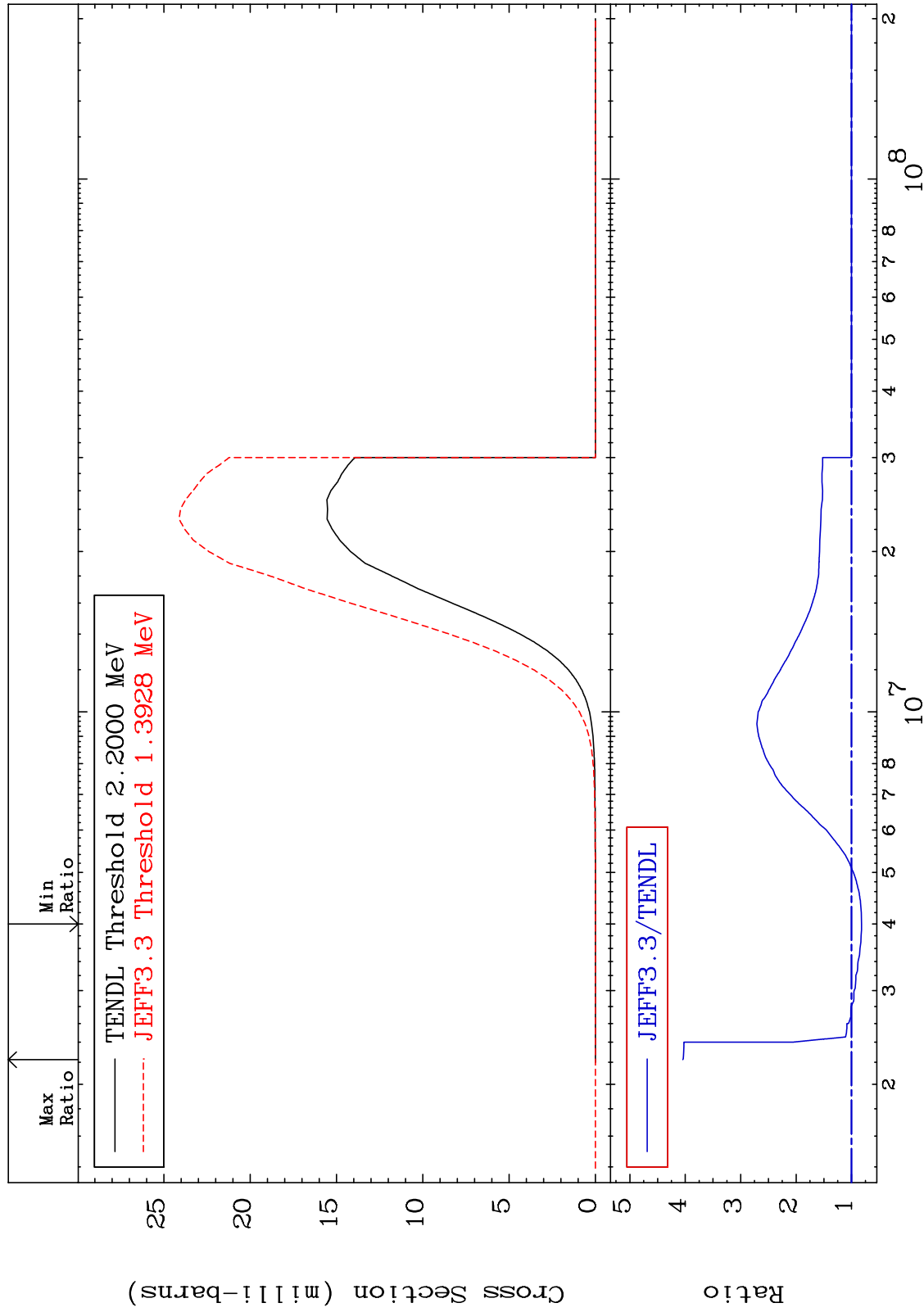


MAT 6025

(n, p) : 59-Pr-142m1

60-Nd-142

Radionuclide Production Cross Section -18.04 To 304.4 %

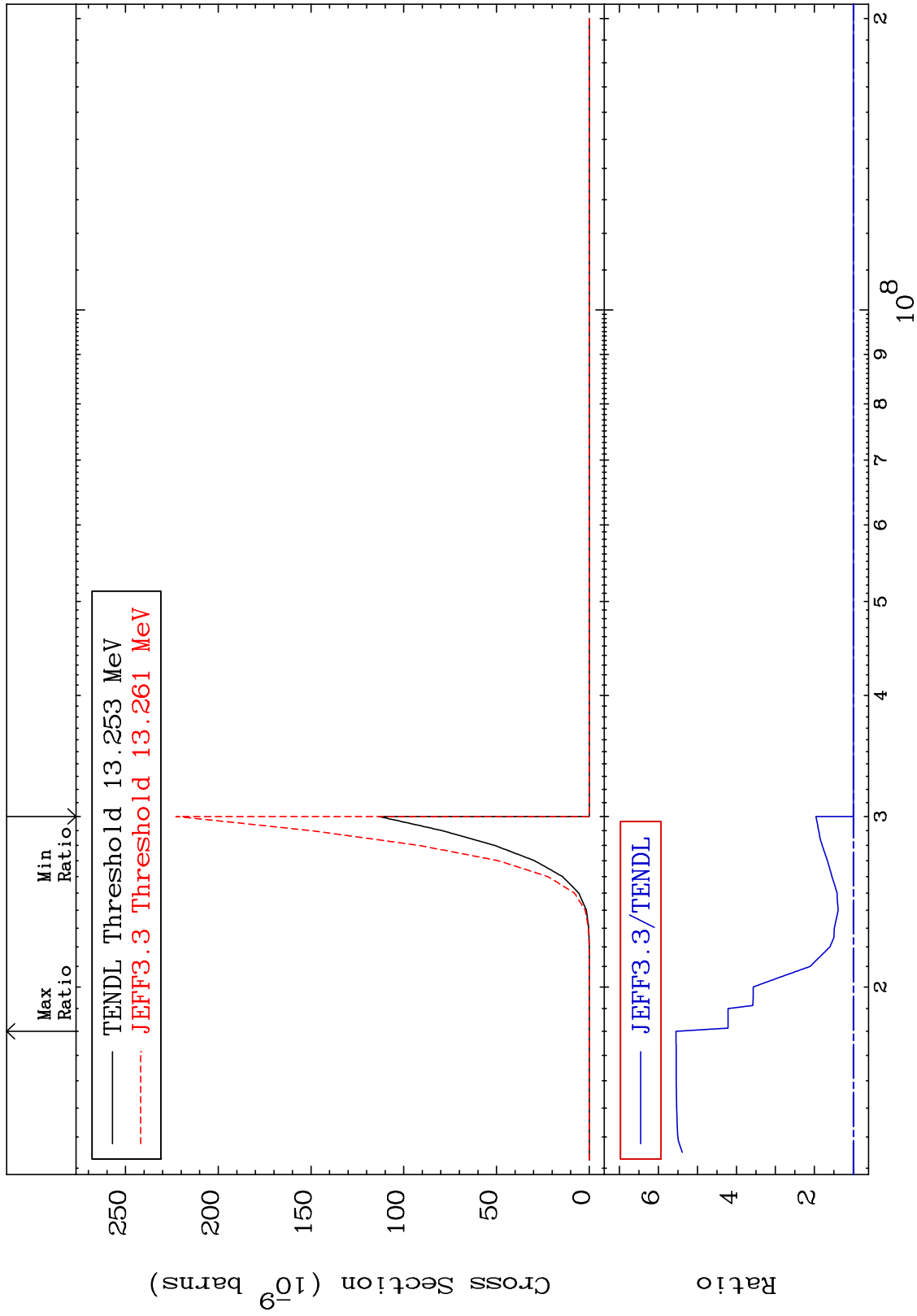


MAT 6025

(n, p) t:58-Ce-139g

60-Nd-142

Radionuclide Production Cross Section 0.000 To 454.7 %

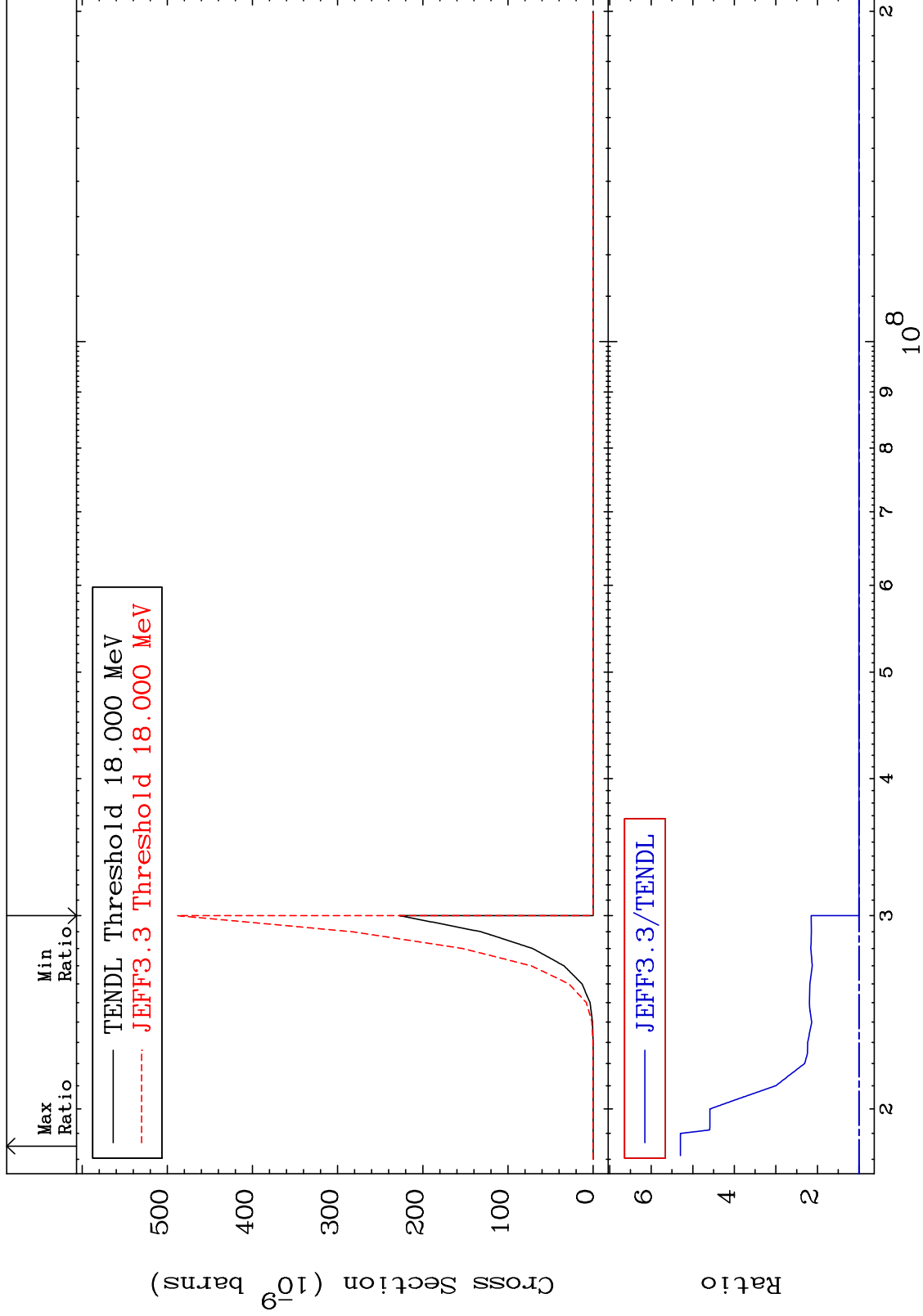


MAT 6025

(n, p) t:58-Ce-139m2

60-Nd-142

Radionuclide Production Cross Section 0.000 To 429.6 %



90

Incident Energy (eV)

60-Nd-142