

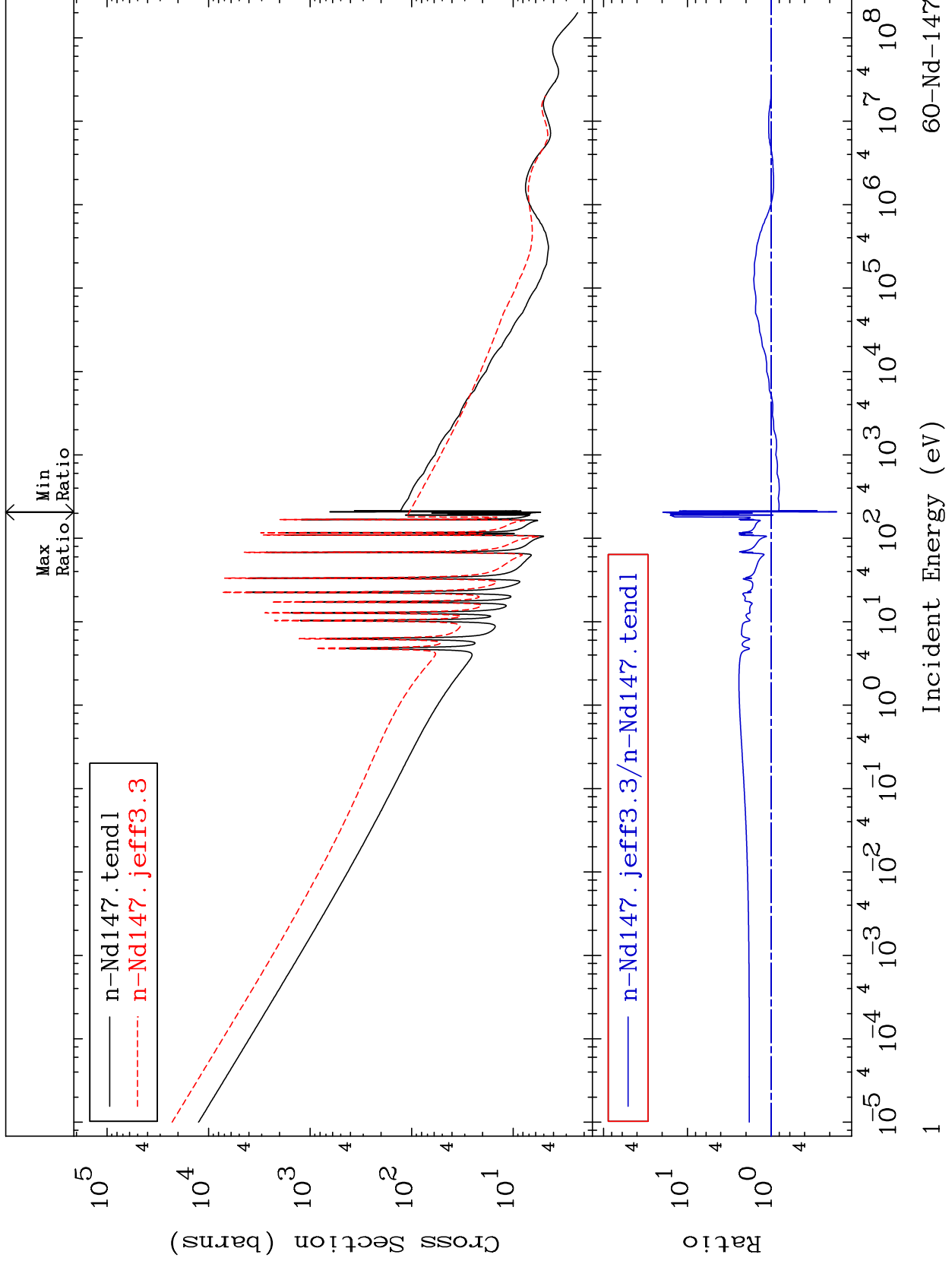
MAT 6040

Total

60-Nd-147

Cross Section

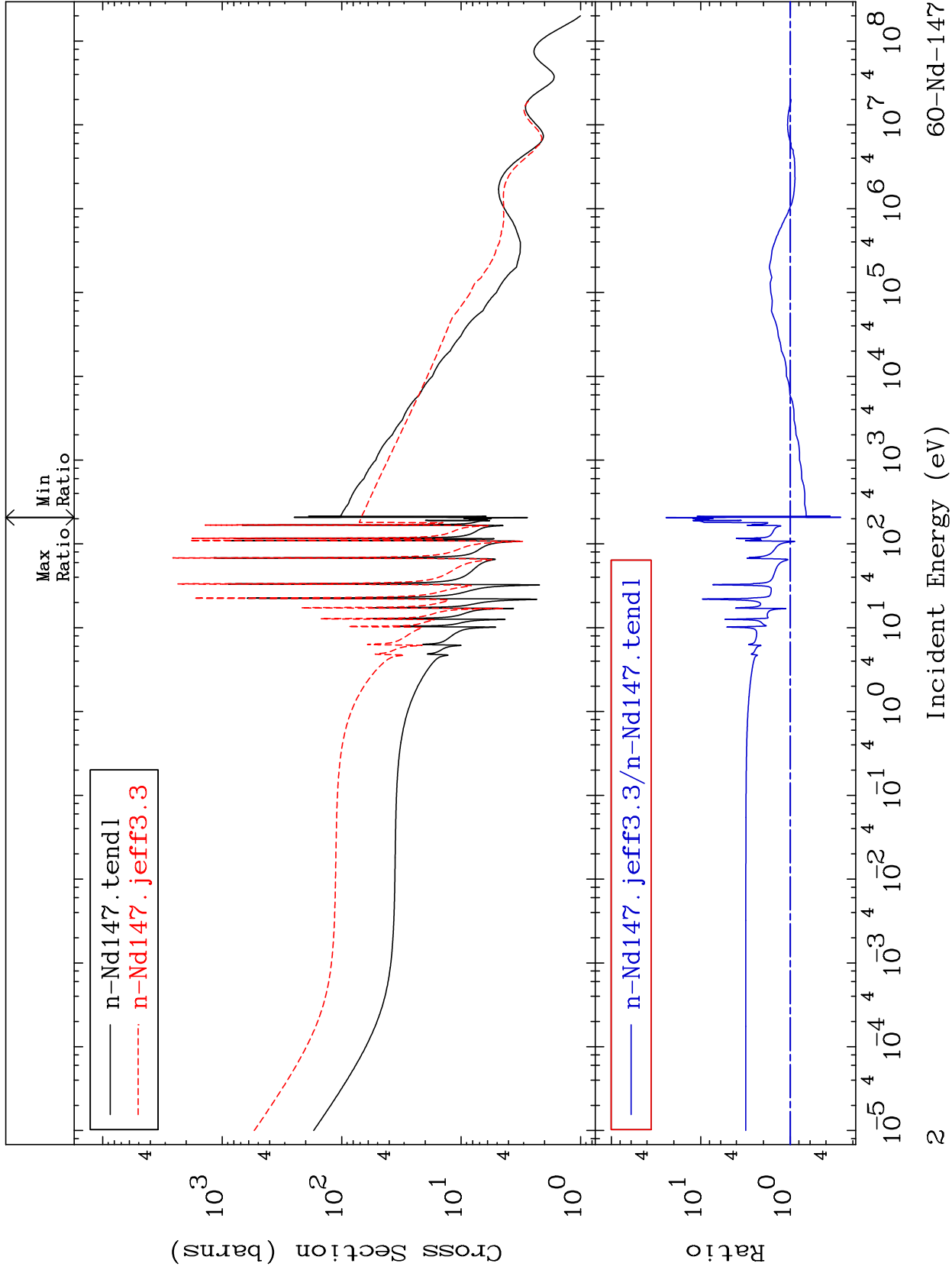
-83.53 To 1869. %



MAT 6040

Elastic
Cross Section

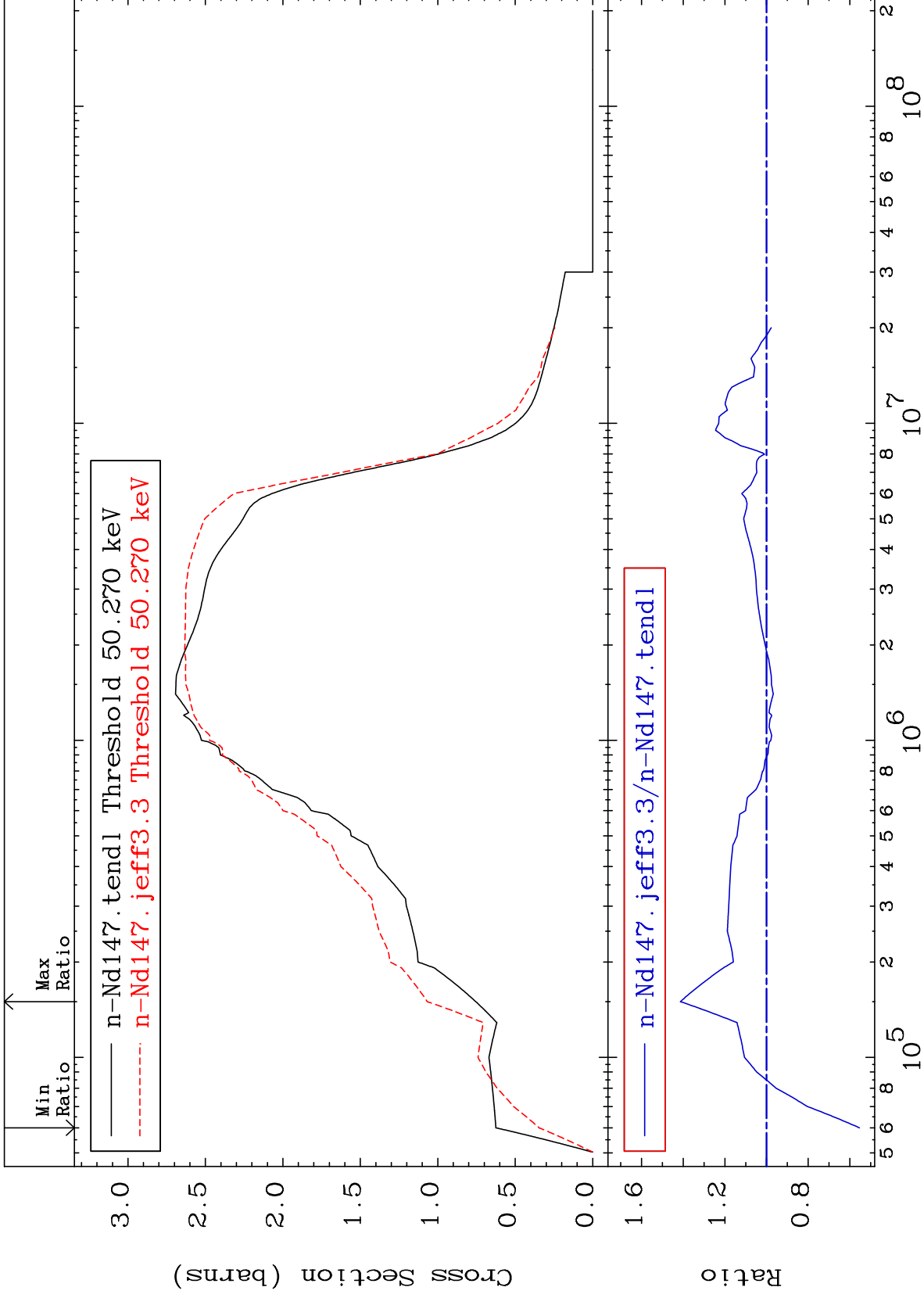
60-Nd-147
-72.77 To 2352. %



MAT 6040

Inelastic
Cross Section

60-Nd-147
-44.59 To 41.36 %



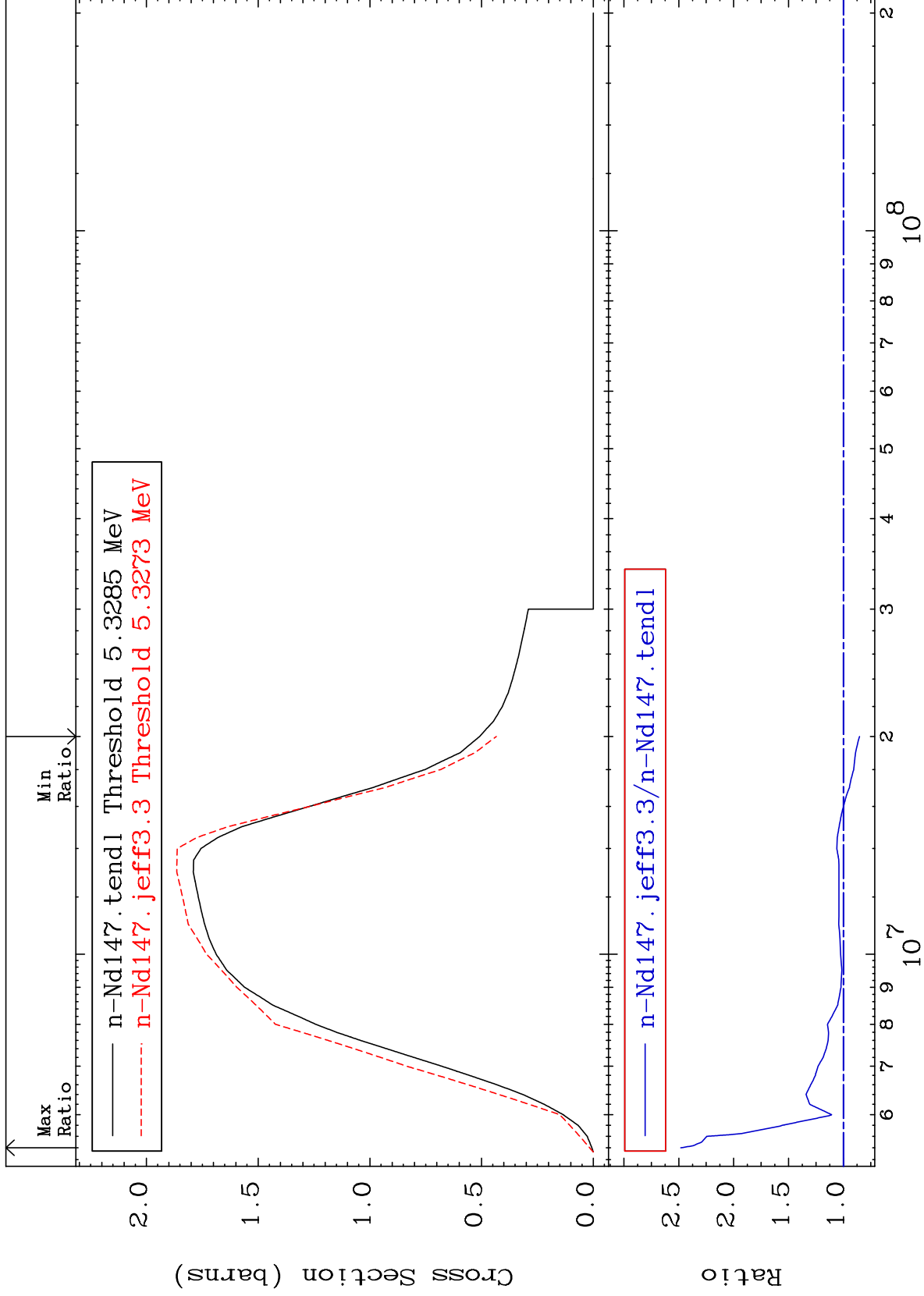
MAT 6040

(n,2n)

60-Nd-147

Cross Section

-14.70 To 148.2 %



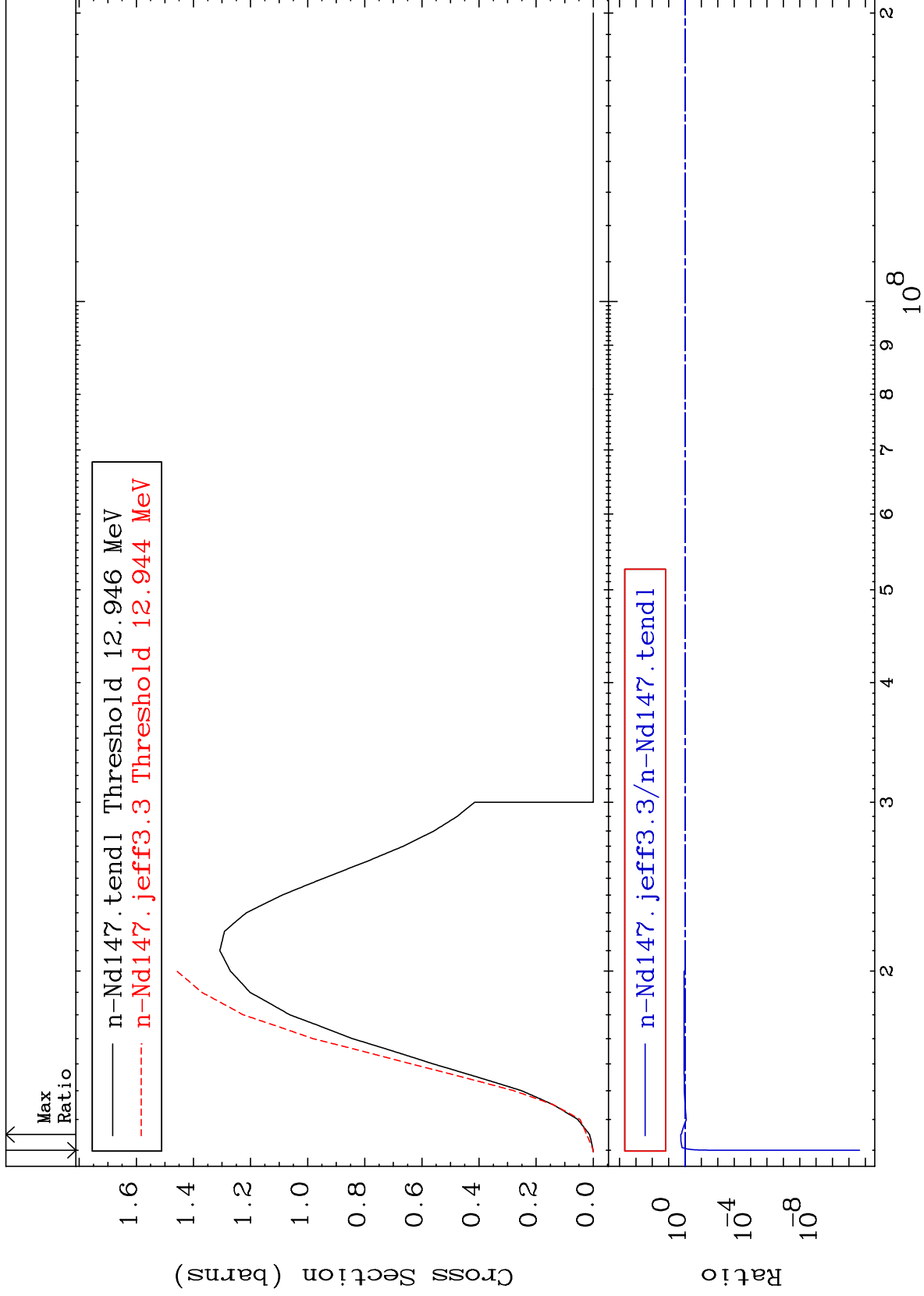
MAT 6040

(n,3n)

60-Nd-147

Cross Section

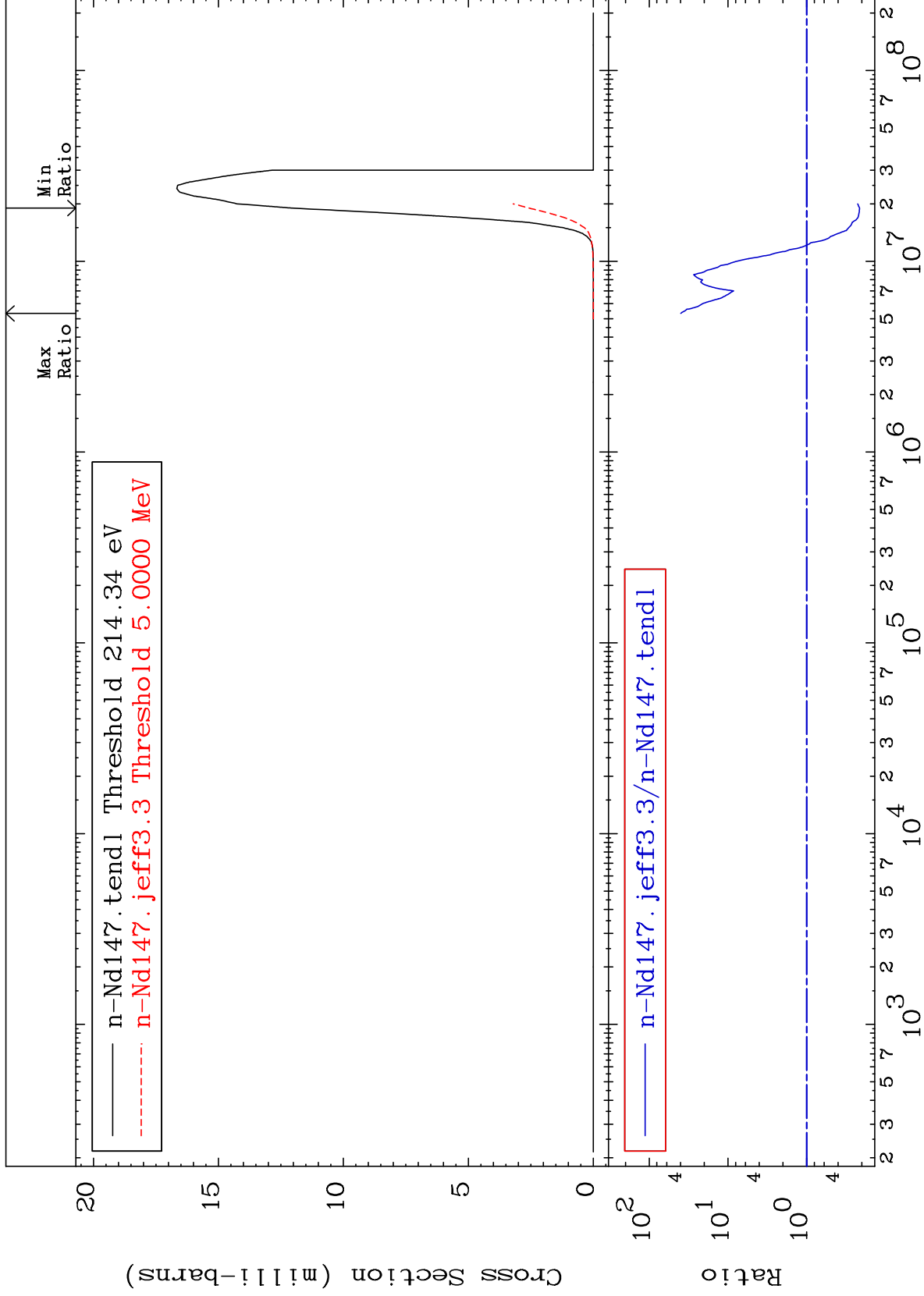
-100.0 To 82.10 %



MAT 6040

(n, n') α
Cross Section

60-Nd-147
-78.66 To 3874. %



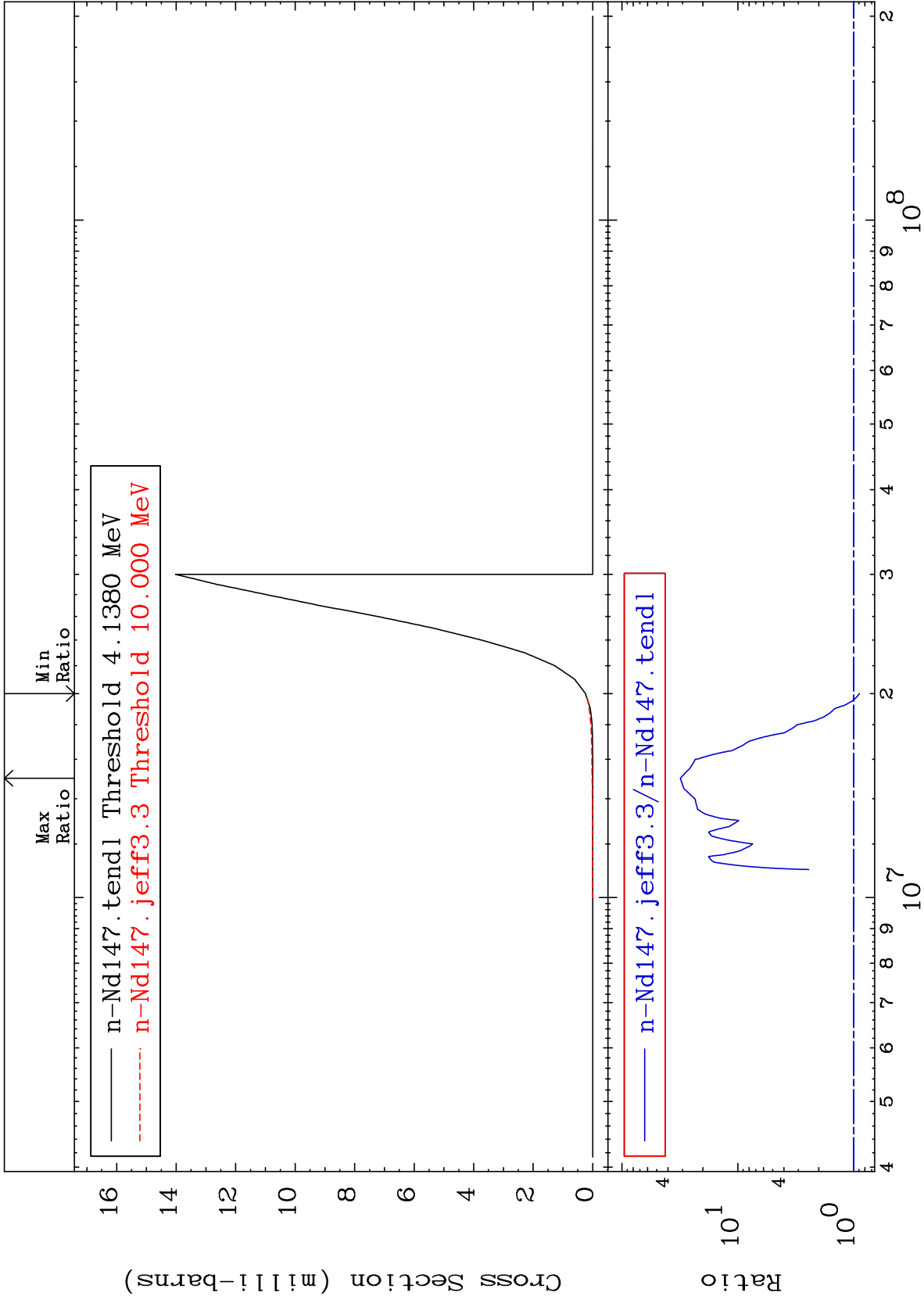
MAT 6040

(n,2n) α

60-Nd-147

Cross Section

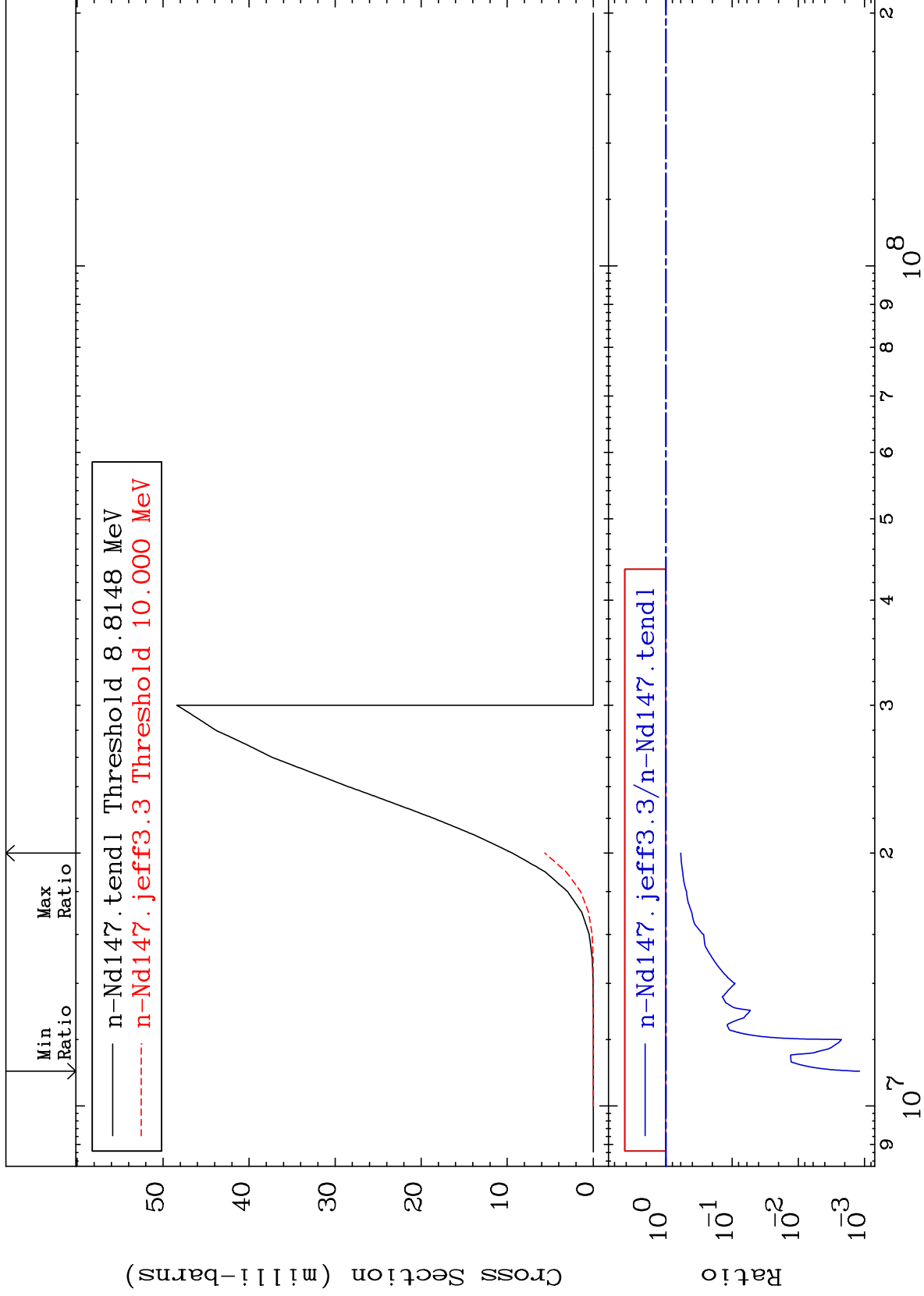
-10.76 To 3032. %



MAT 6040

(n,n') p
Cross Section

60-Nd-147
-99.88 To -40.15%



8

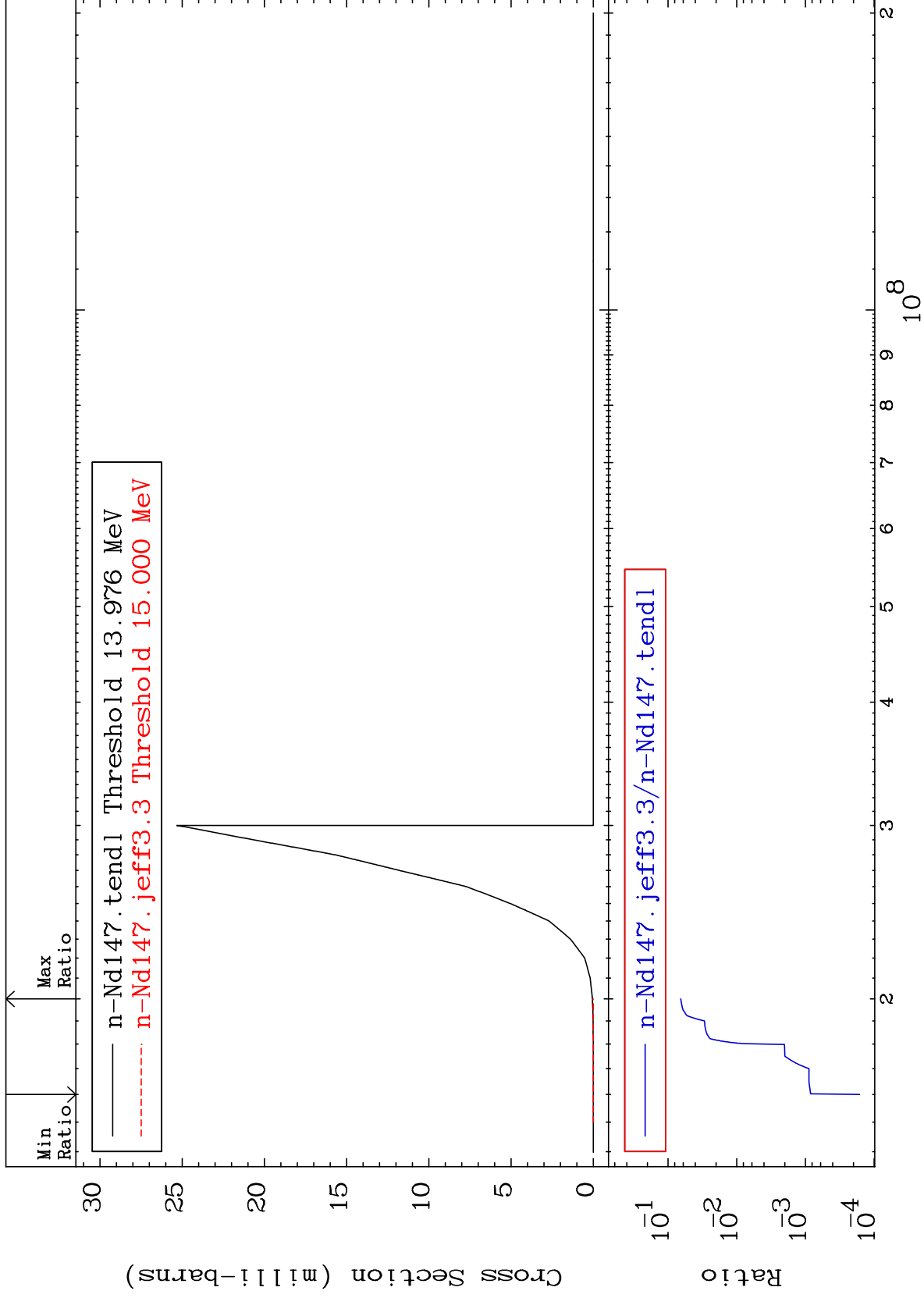
Incident Energy (eV)

60-Nd-147

MAT 6040

(n,2n) p
Cross Section

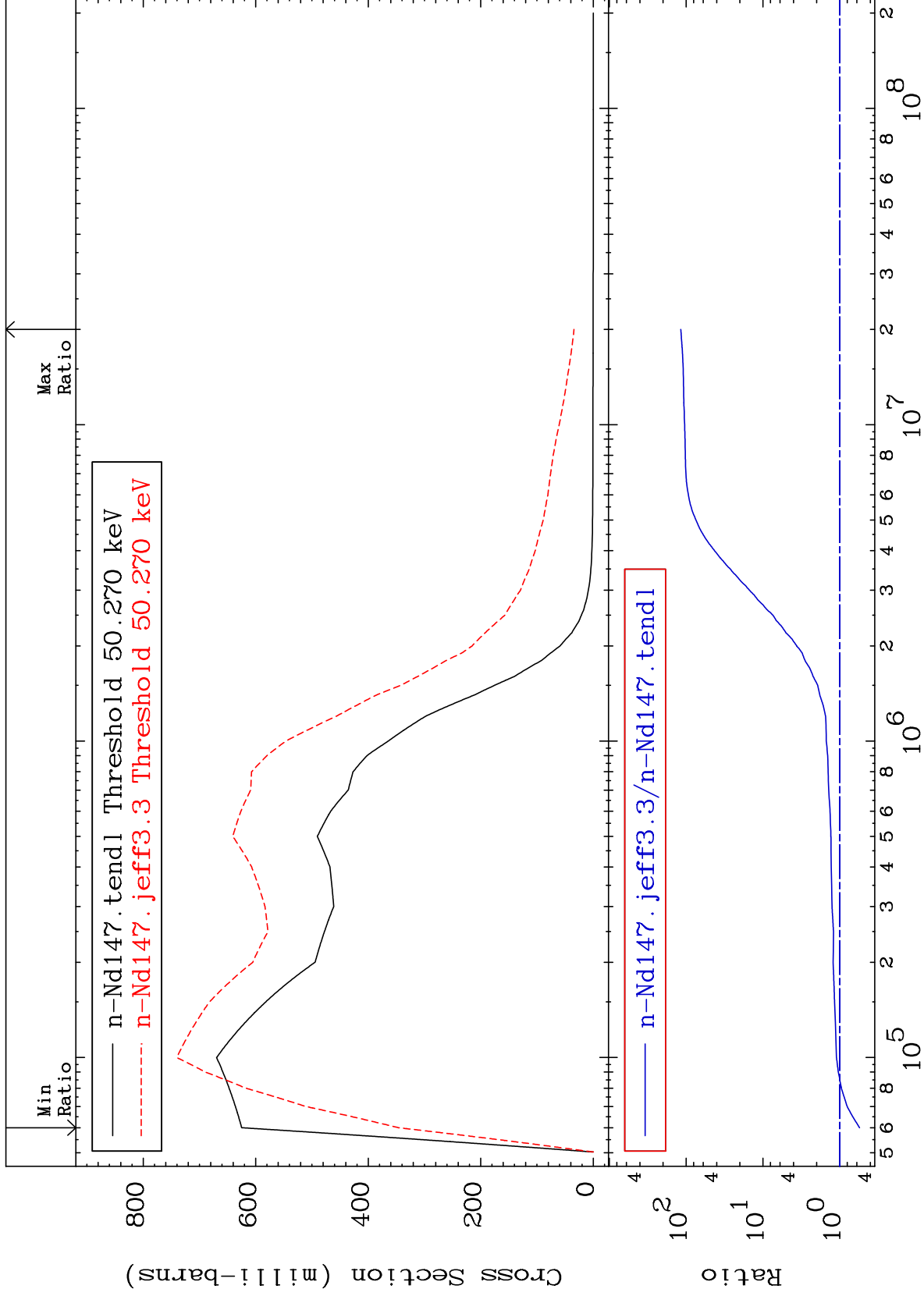
60-Nd-147
-99.98 To -93.47%



MAT 6040

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

60-Nd-147
-44.59 To 9999. %



10

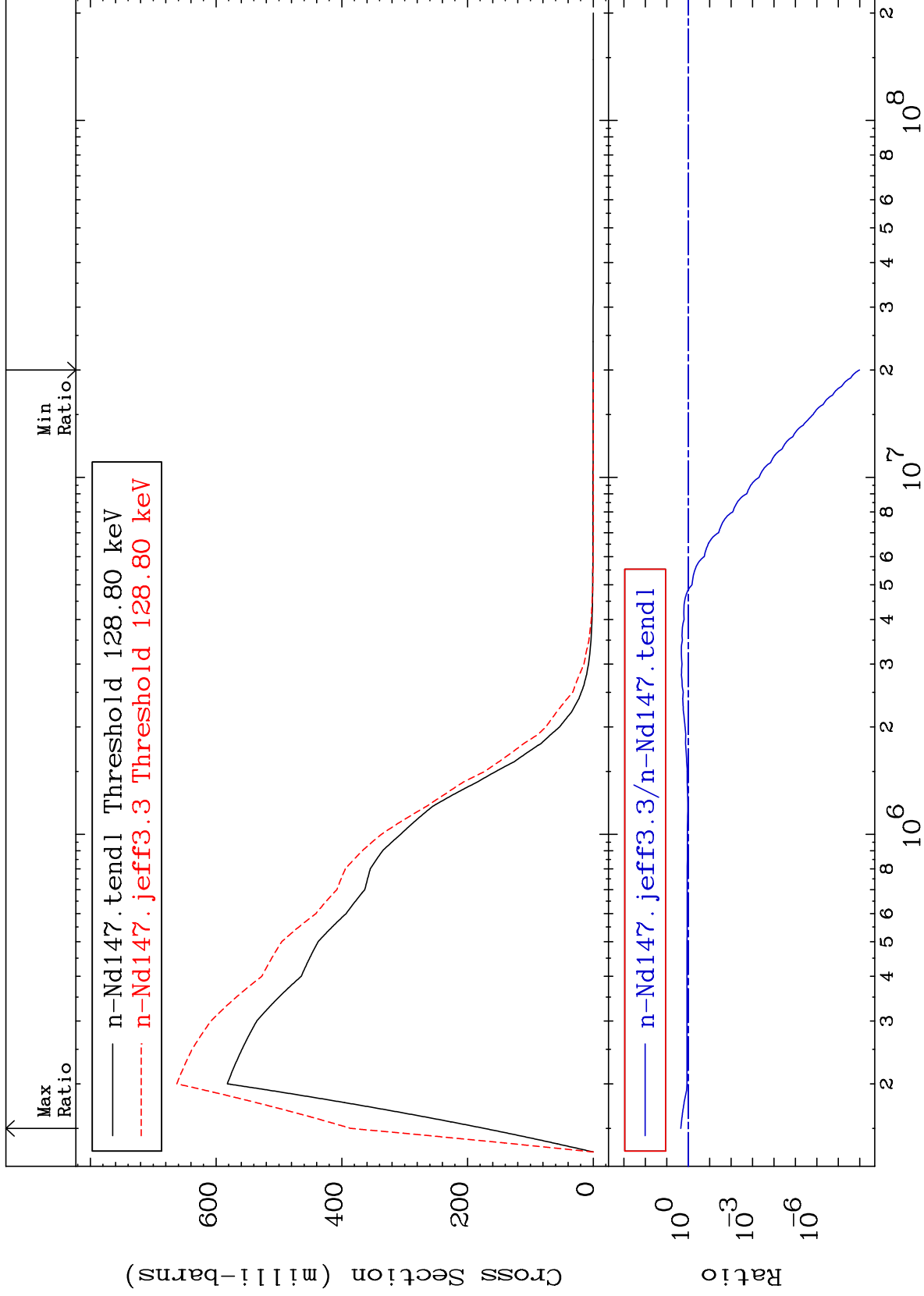
Incident Energy (eV)

60-Nd-147

MAT 6040

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

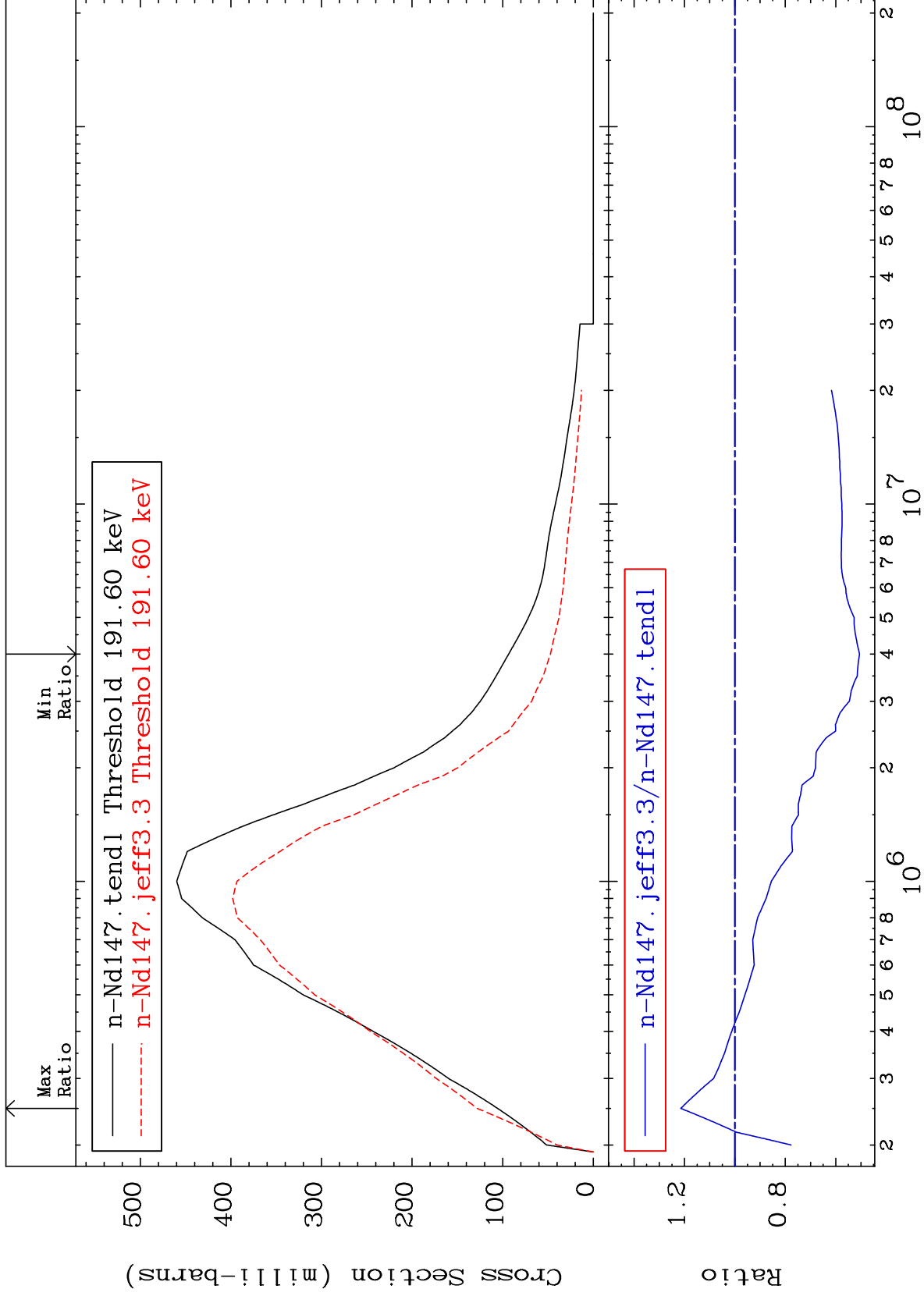
60-Nd-147
-100.0 To 122.5 %



MAT 6040

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

60-Nd-147
-49.45 To 21.47 %



12

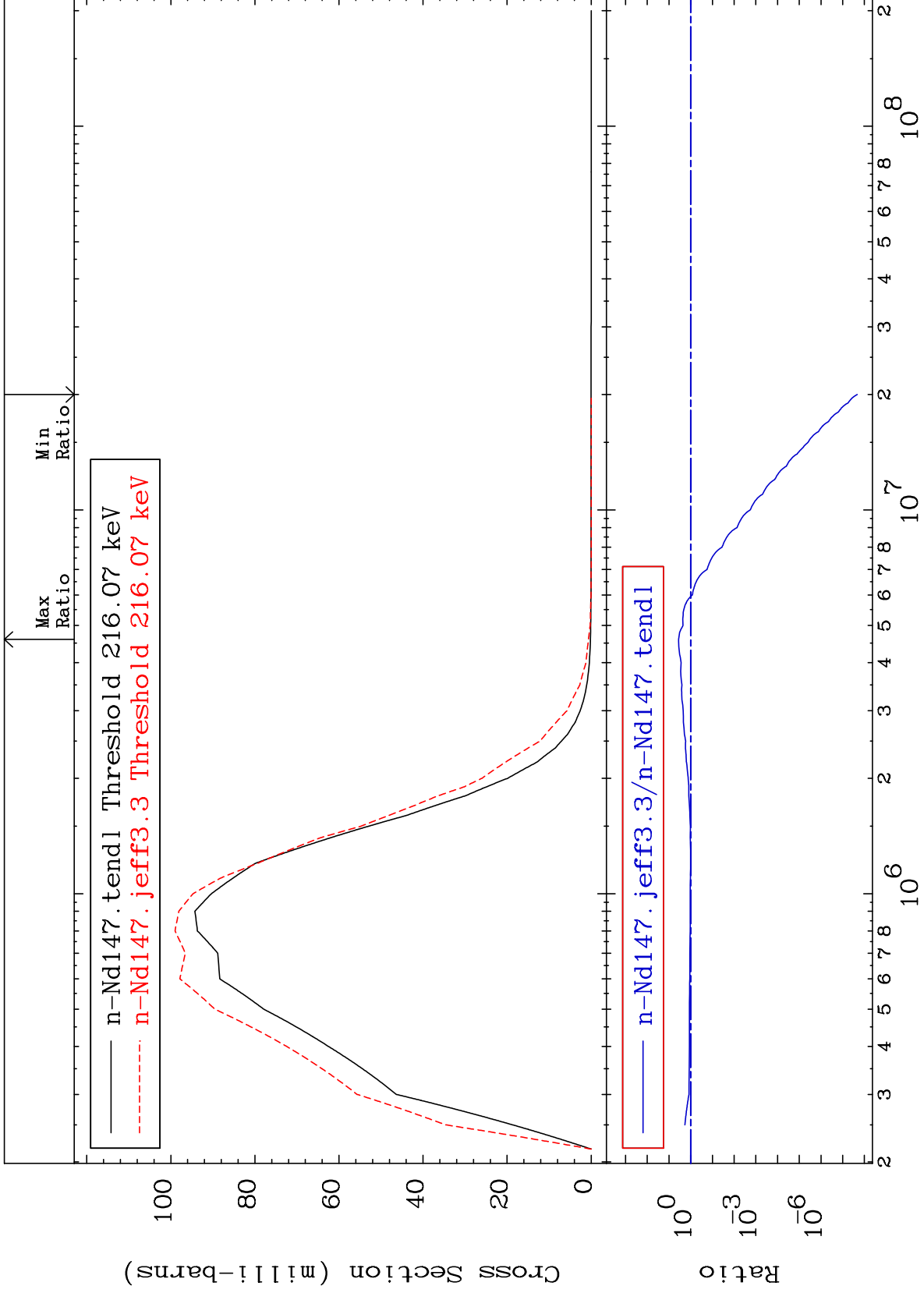
Incident Energy (eV)

60-Nd-147

MAT 6040

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

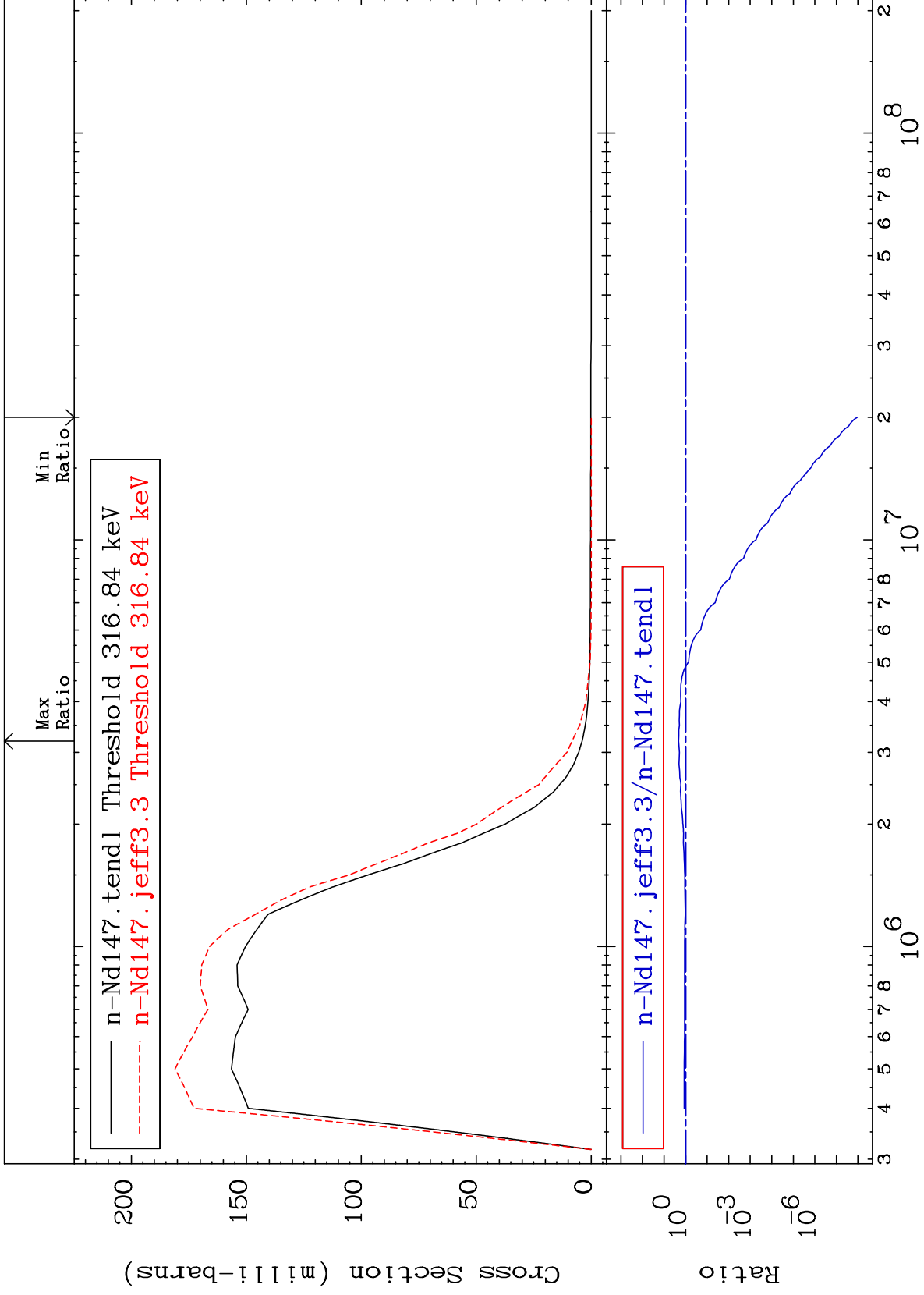
60-Nd-147
-100.0 To 259.1 %



MAT 6040

MT= 55 (n,n') Level
Cross Section

60-Nd-147
-100.0 To 110.3 %



14

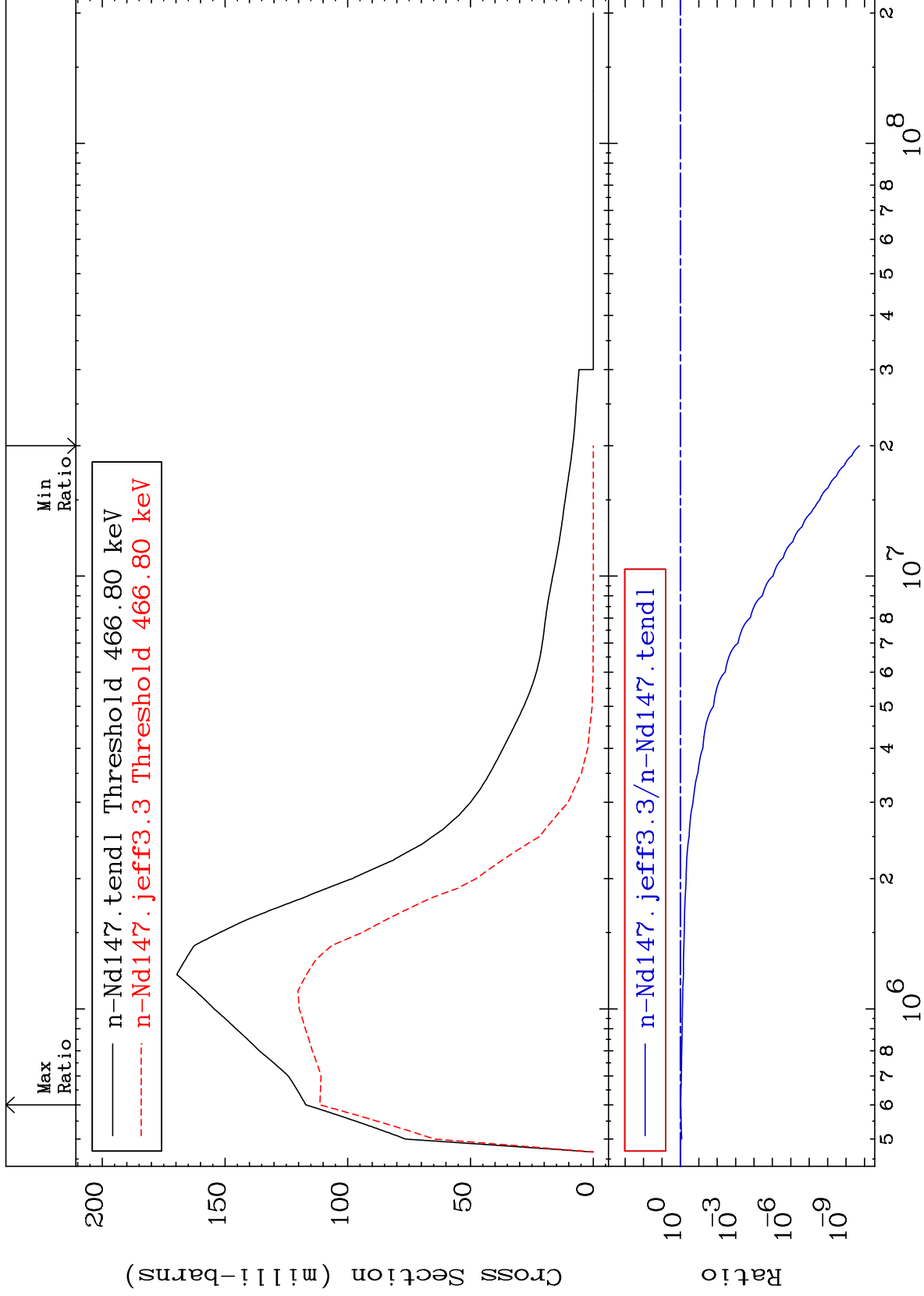
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To -4.899%



15

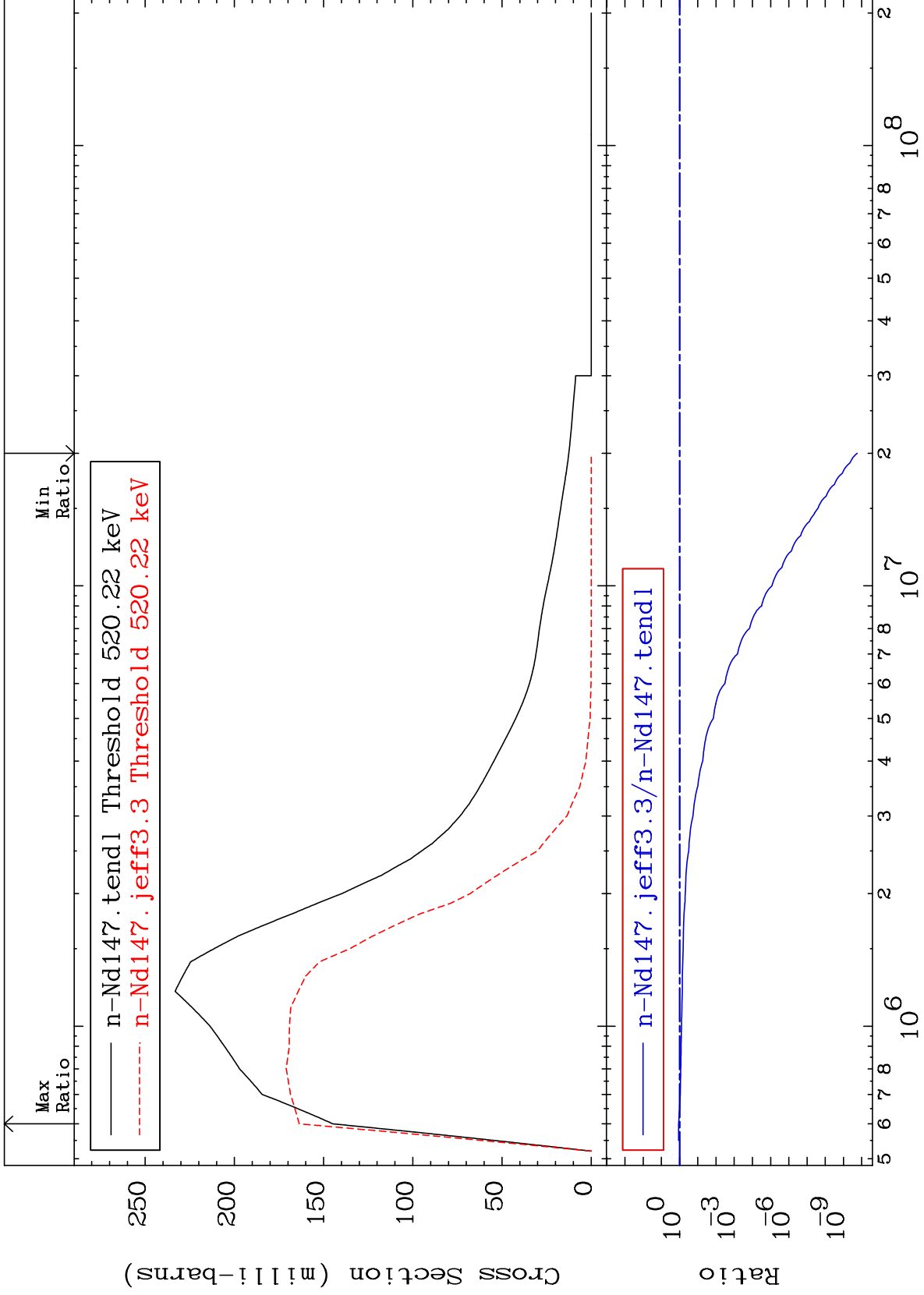
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To 13.05 %



16

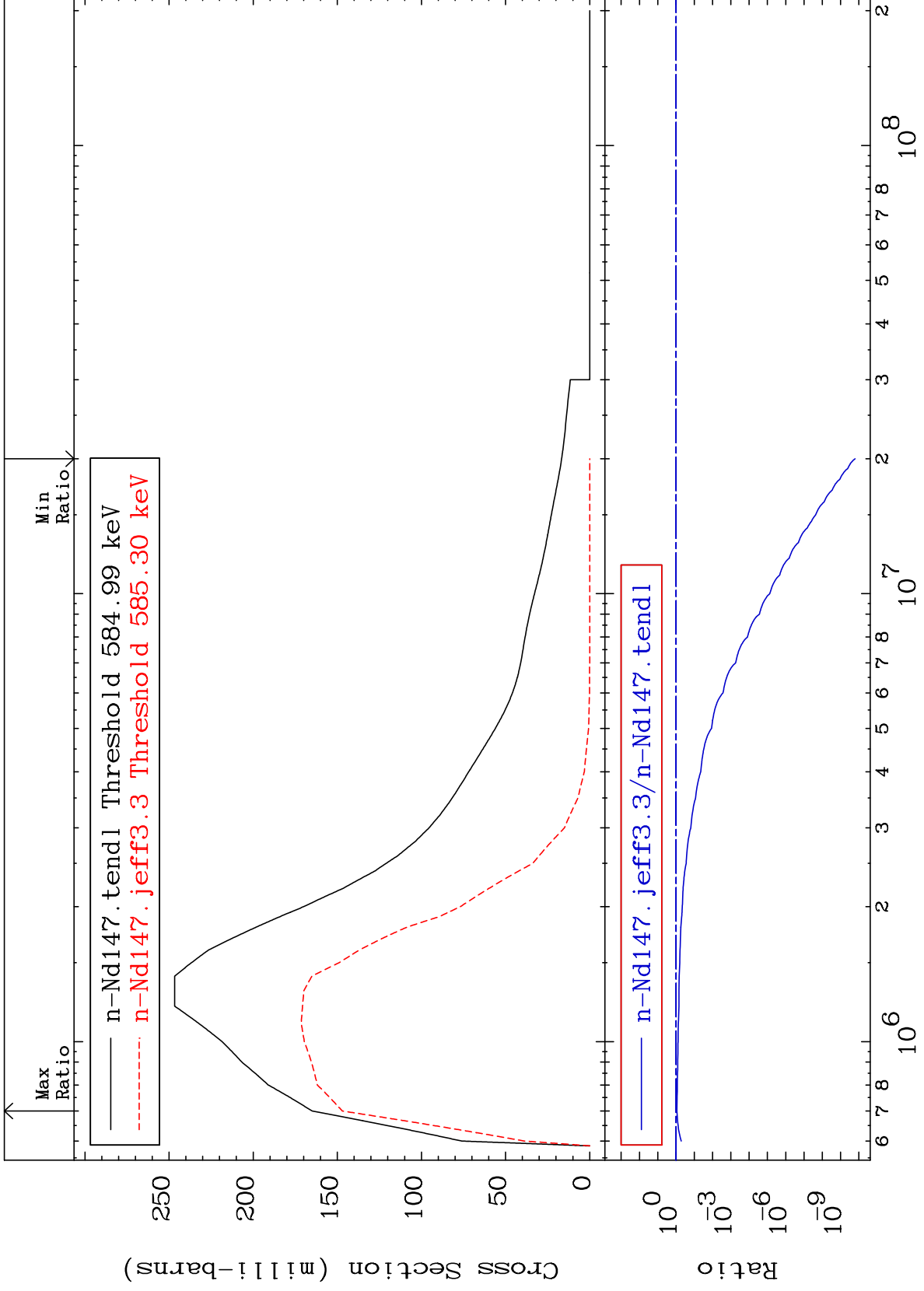
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To -10.88%



17

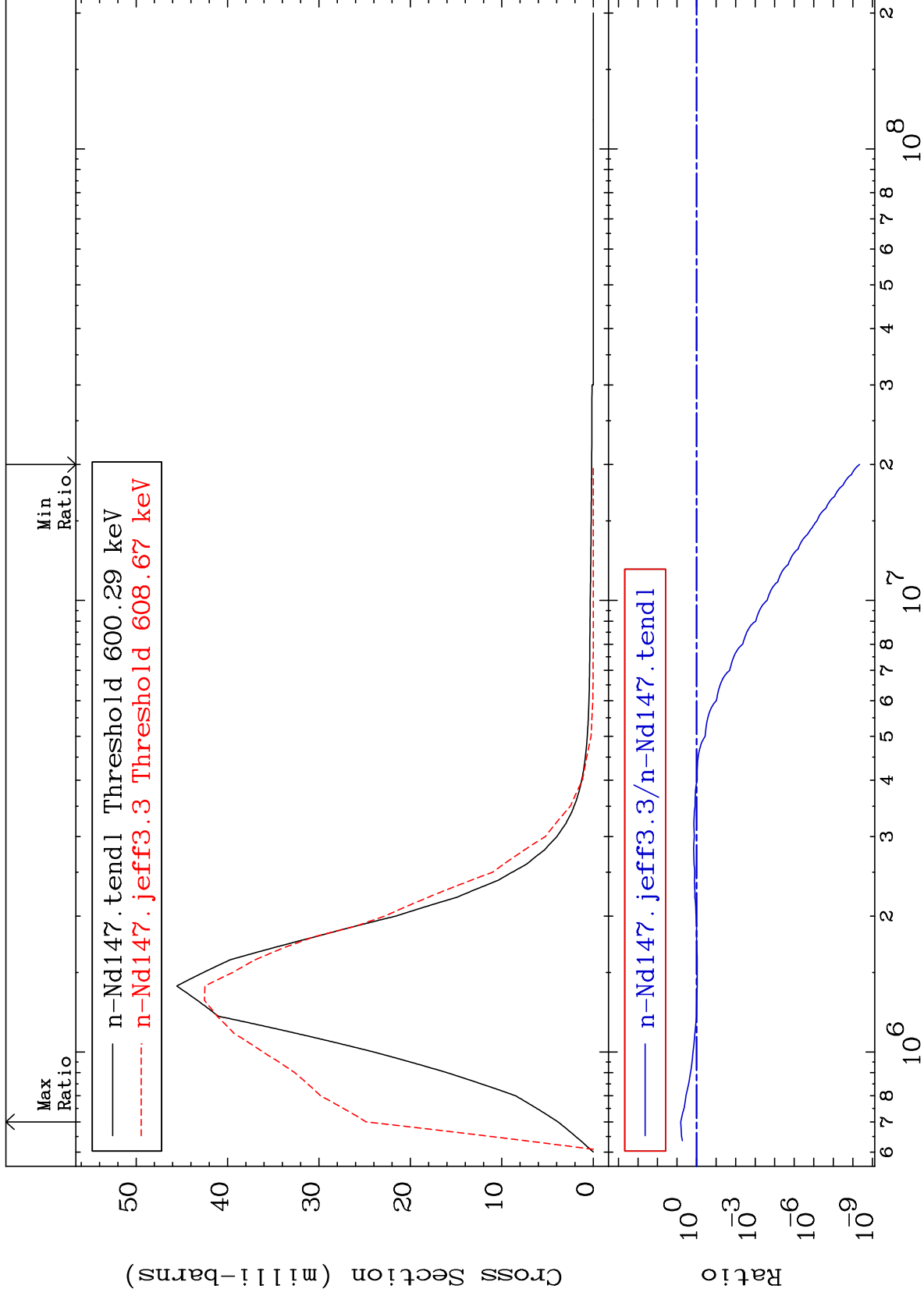
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To 544.1 %



18

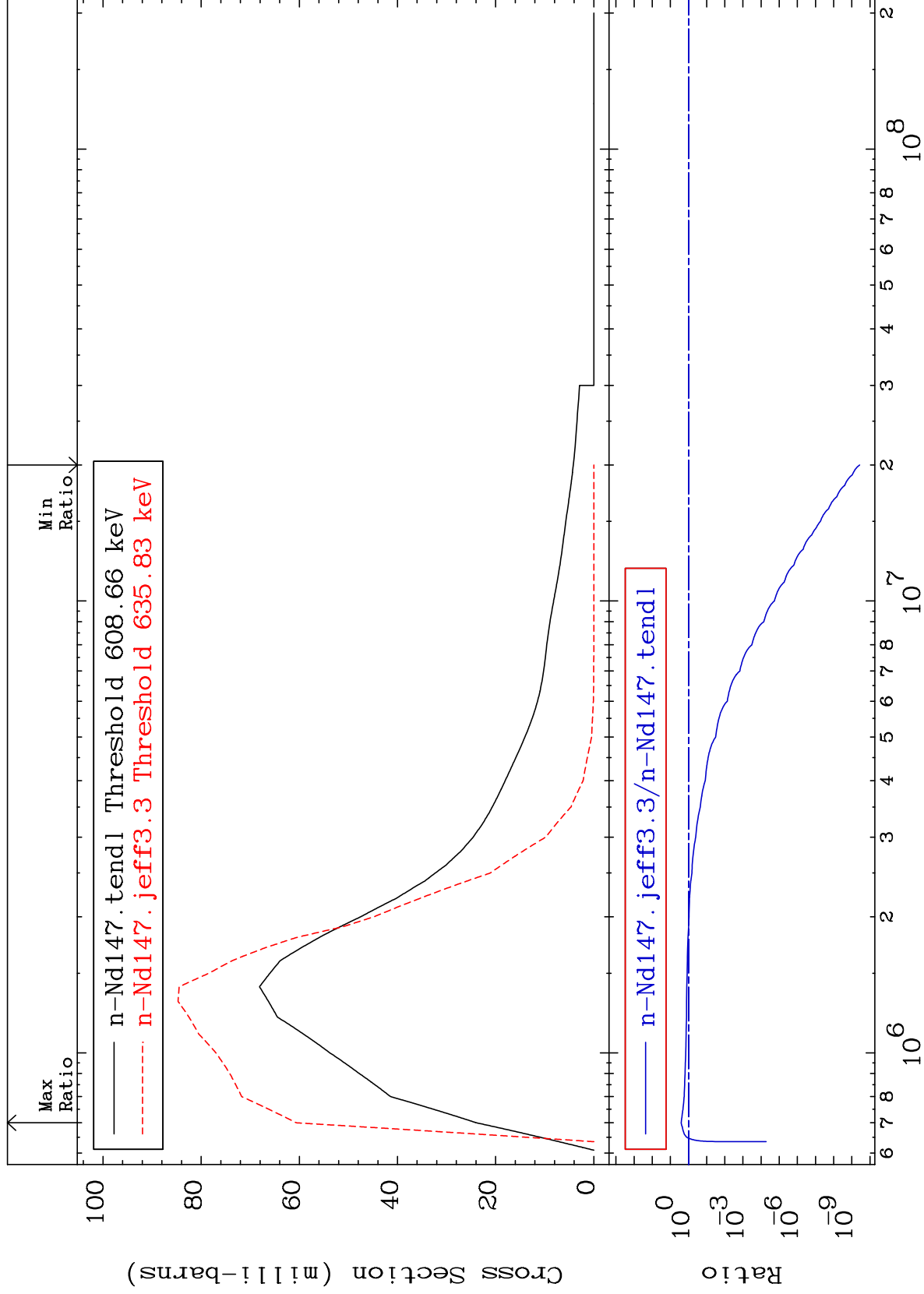
60-Nd-147

60-Nd-147

MAT 6040

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

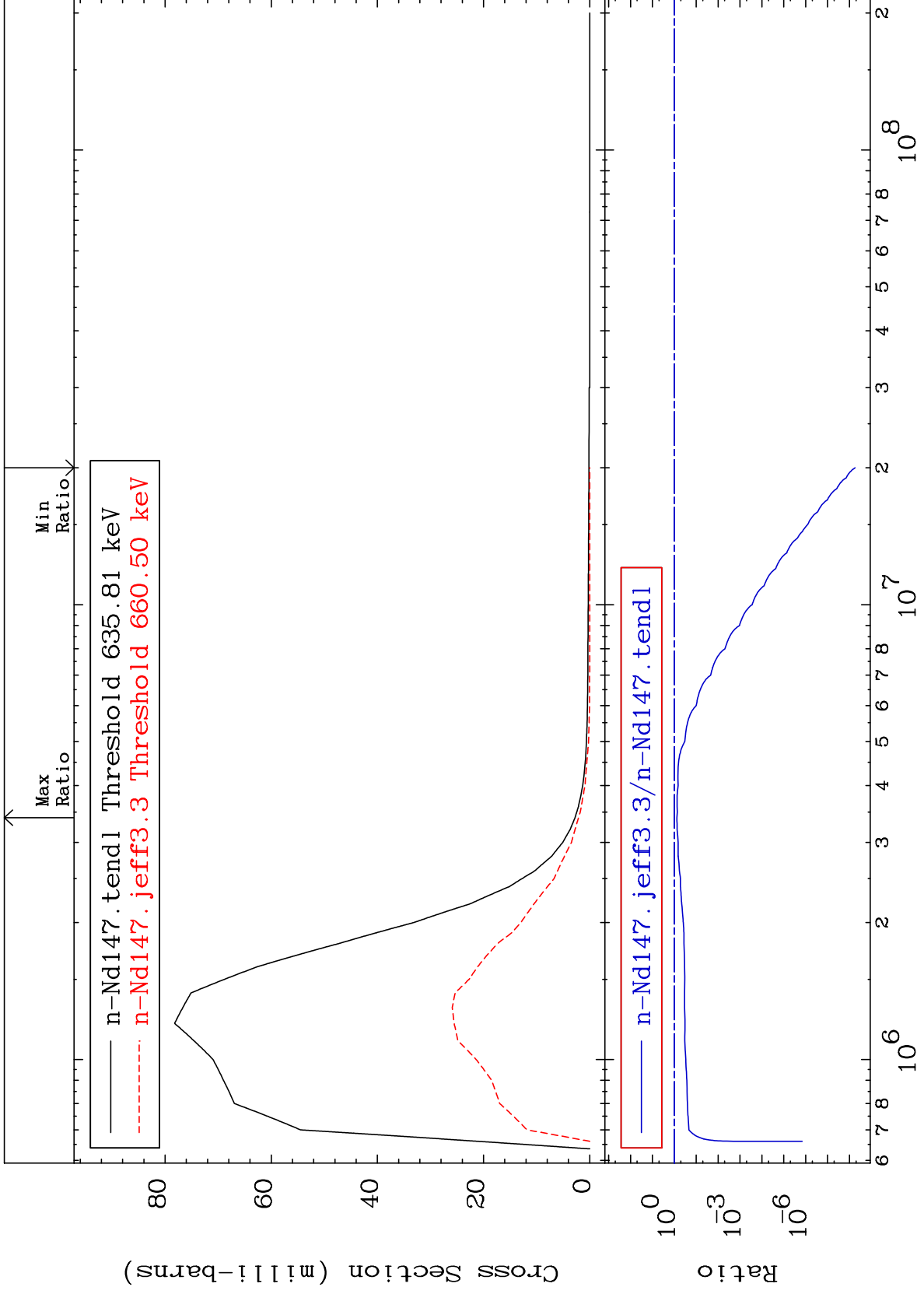
60-Nd-147
-100.0 To 153.7 %



MAT 6040

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

60-Nd-147
-100.0 To -23.94%



20

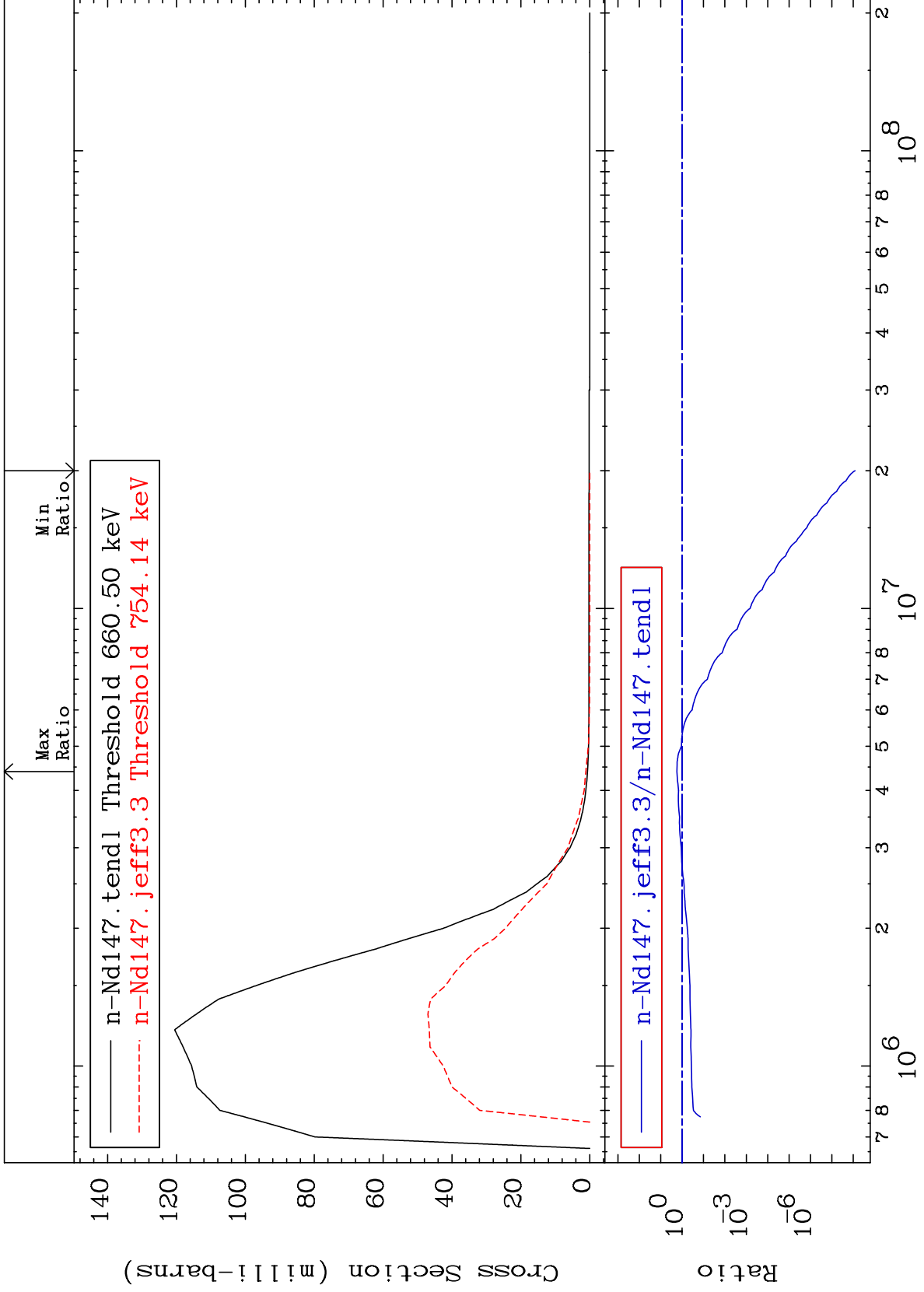
Incident Energy (eV)

60-Nd-147

MAT 6040

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

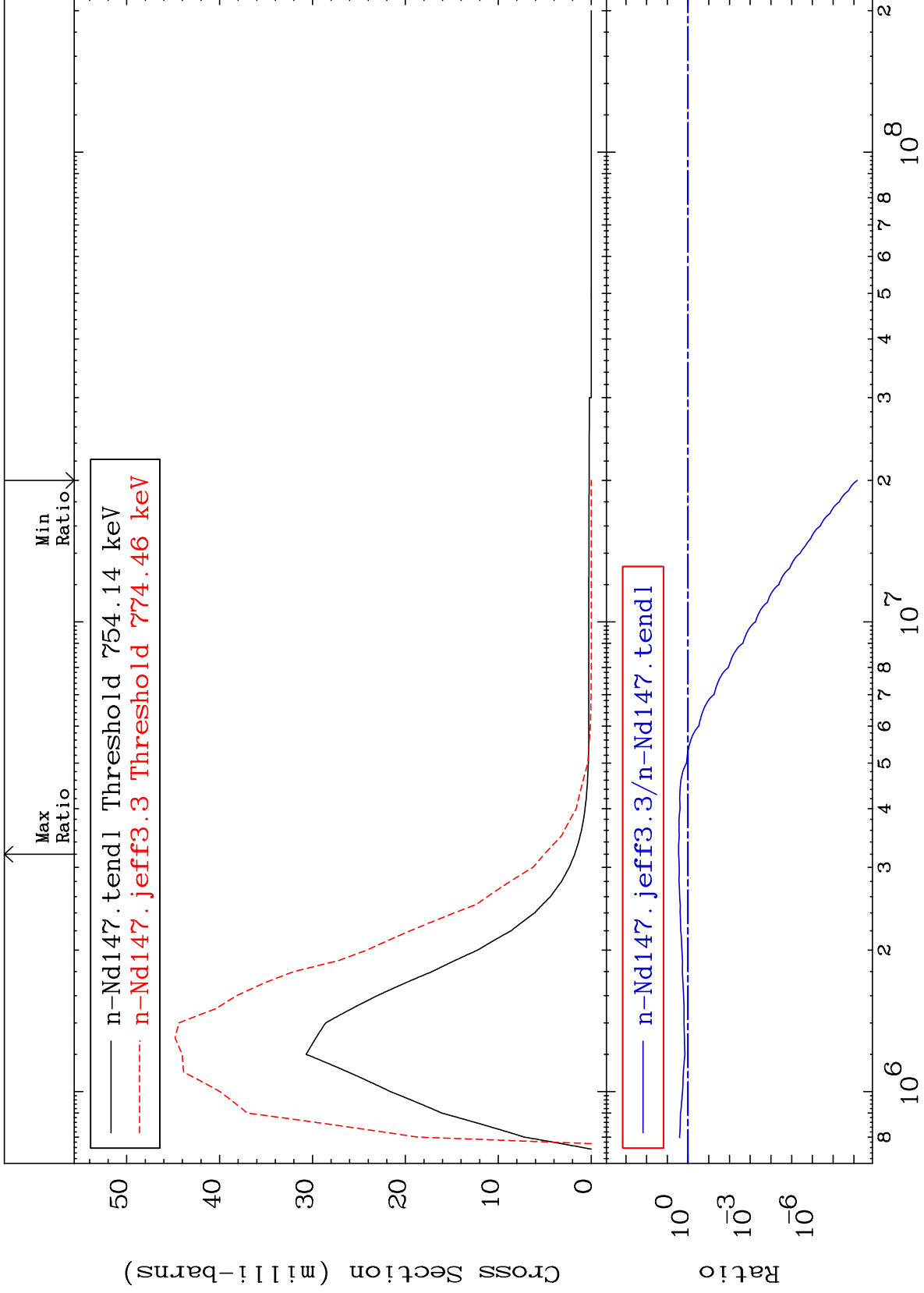
60-Nd-147
-100.0 To 74.75 %



MAT 6040

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

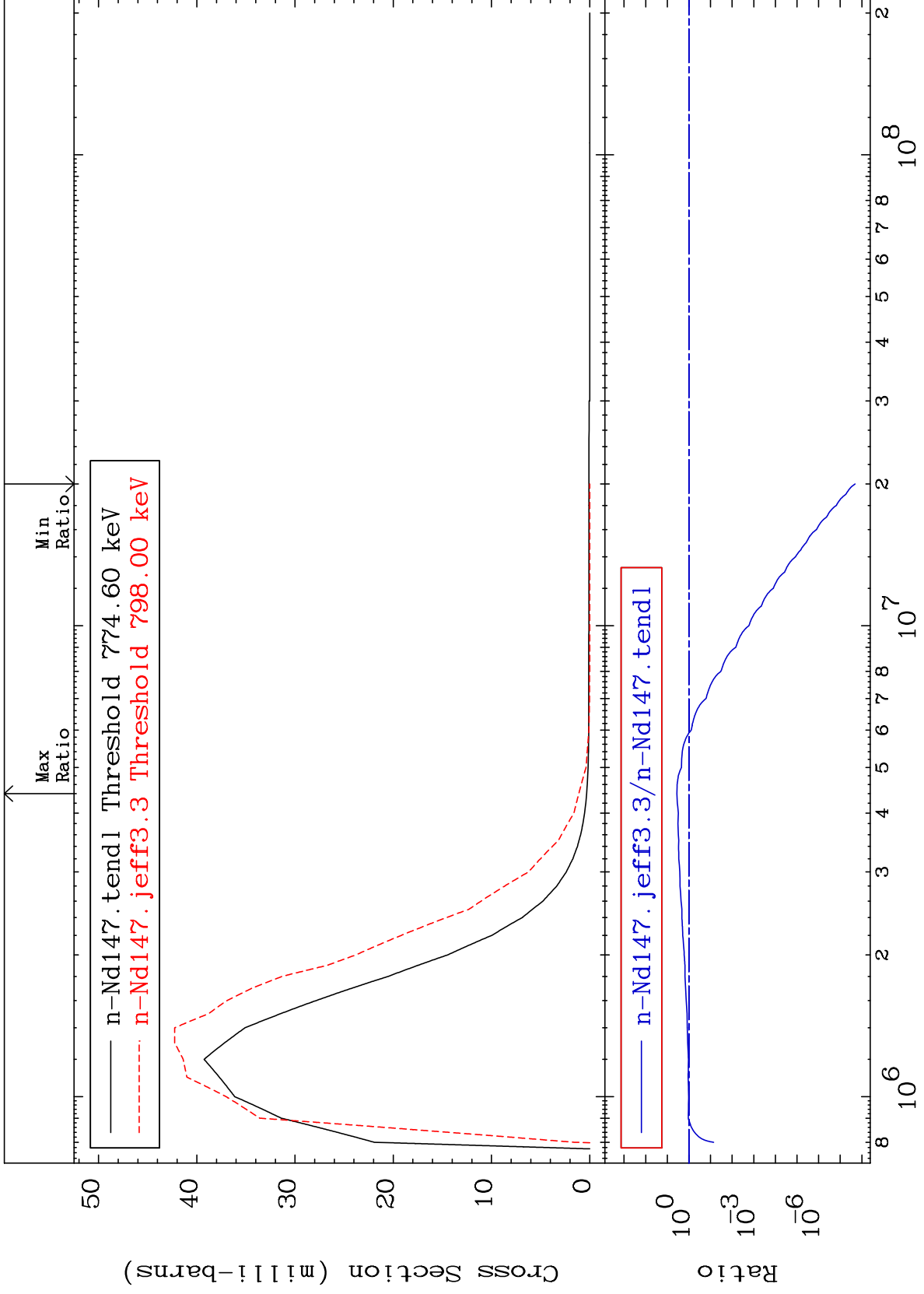
60-Nd-147
-100.0 To 184.5 %



MAT 6040

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

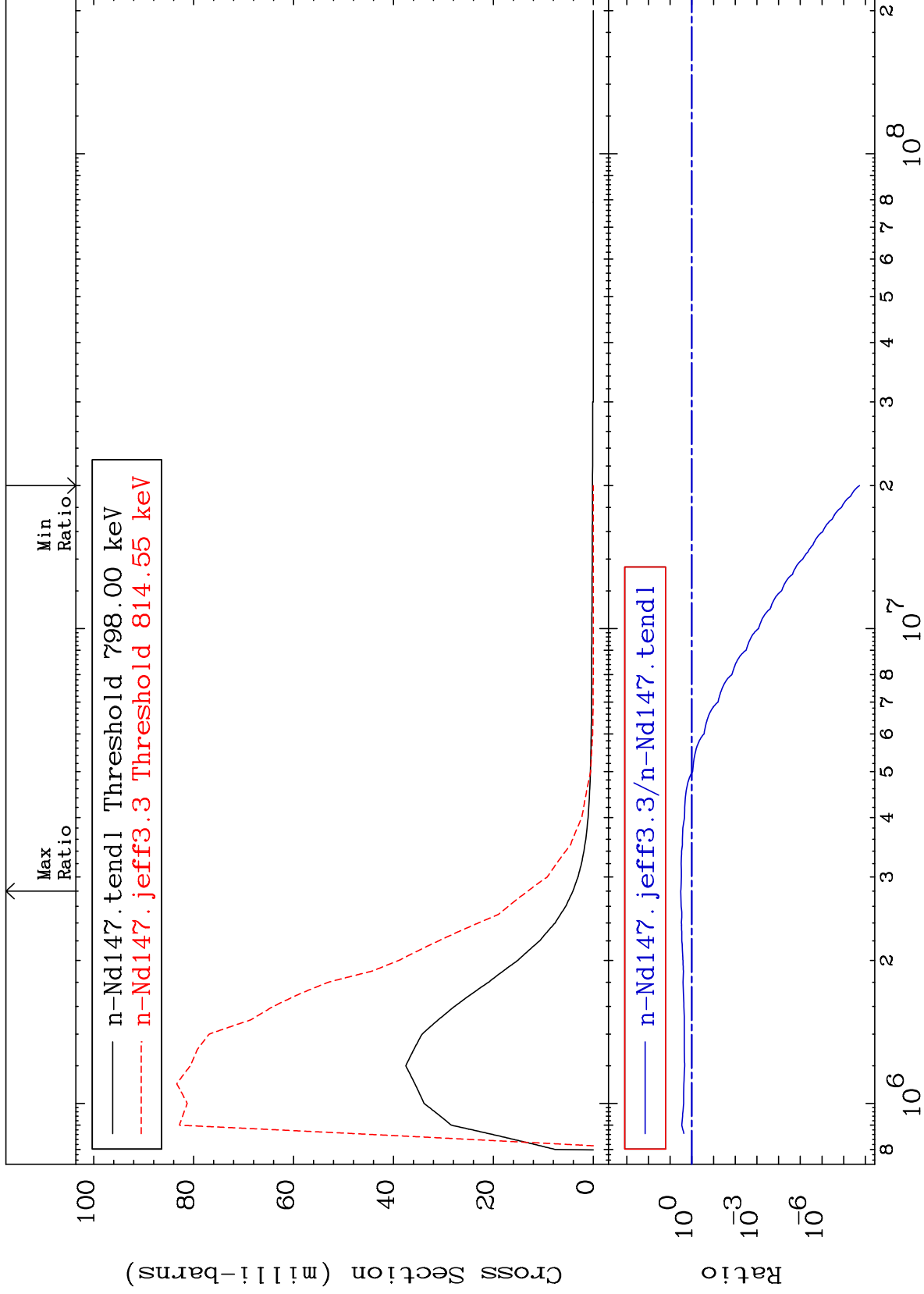
60-Nd-147
-100.0 To 258.7 %



MAT 6040

MT= 65 (n,n') Level
Cross Section

60-Nd-147
-100.0 To 223.1 %



24

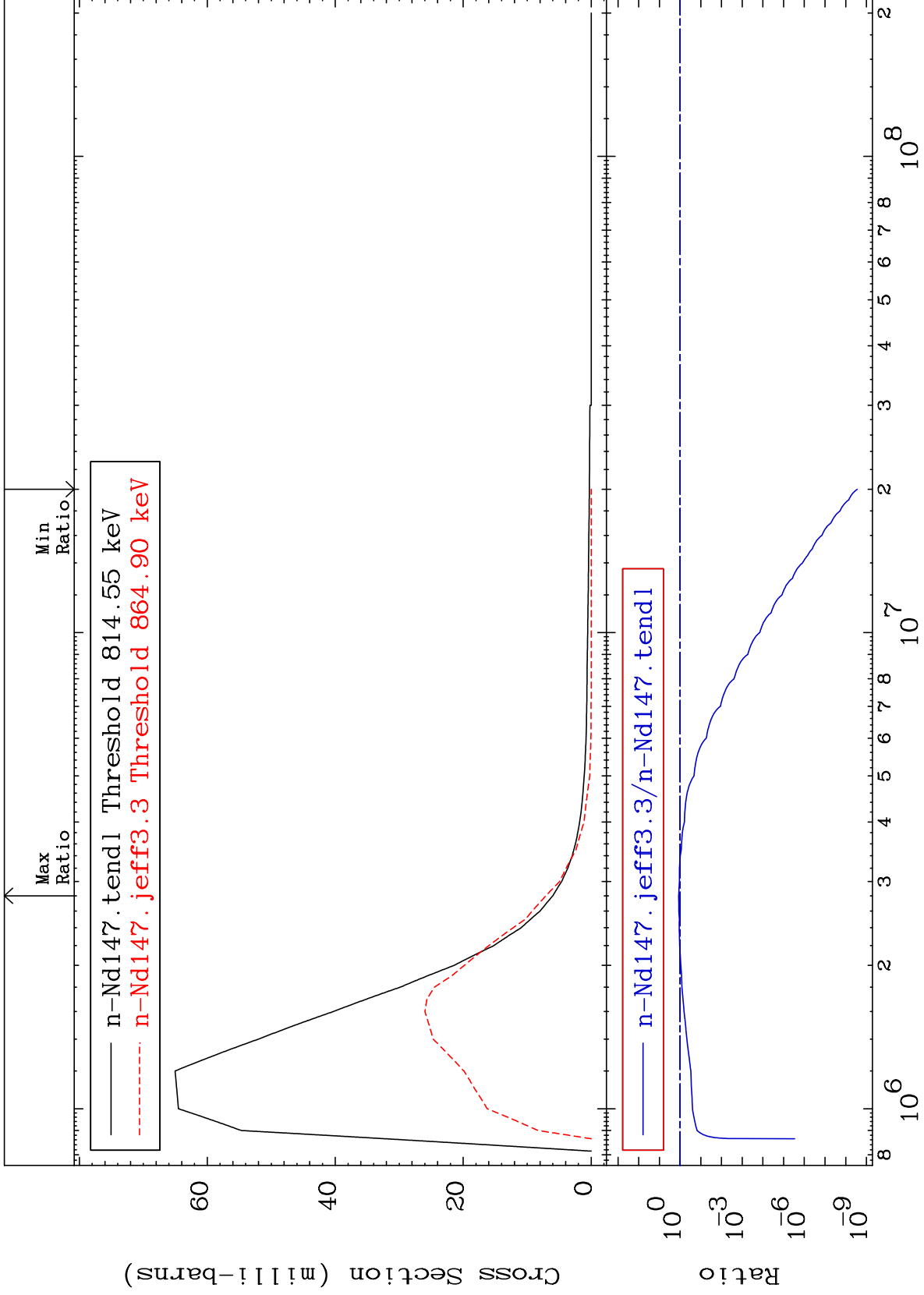
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To 17.86 %



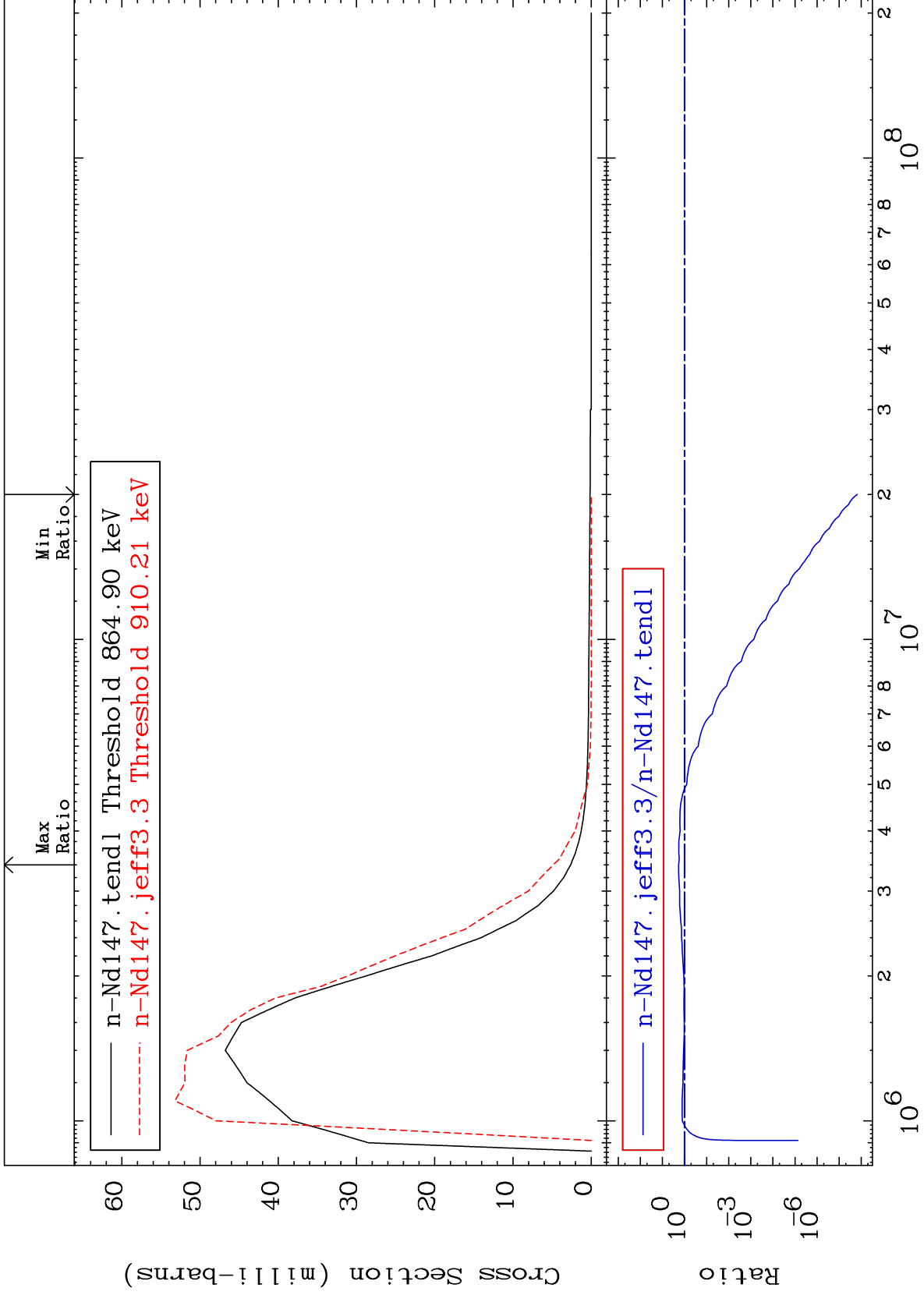
25

60-Nd-147

MAT 6040

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

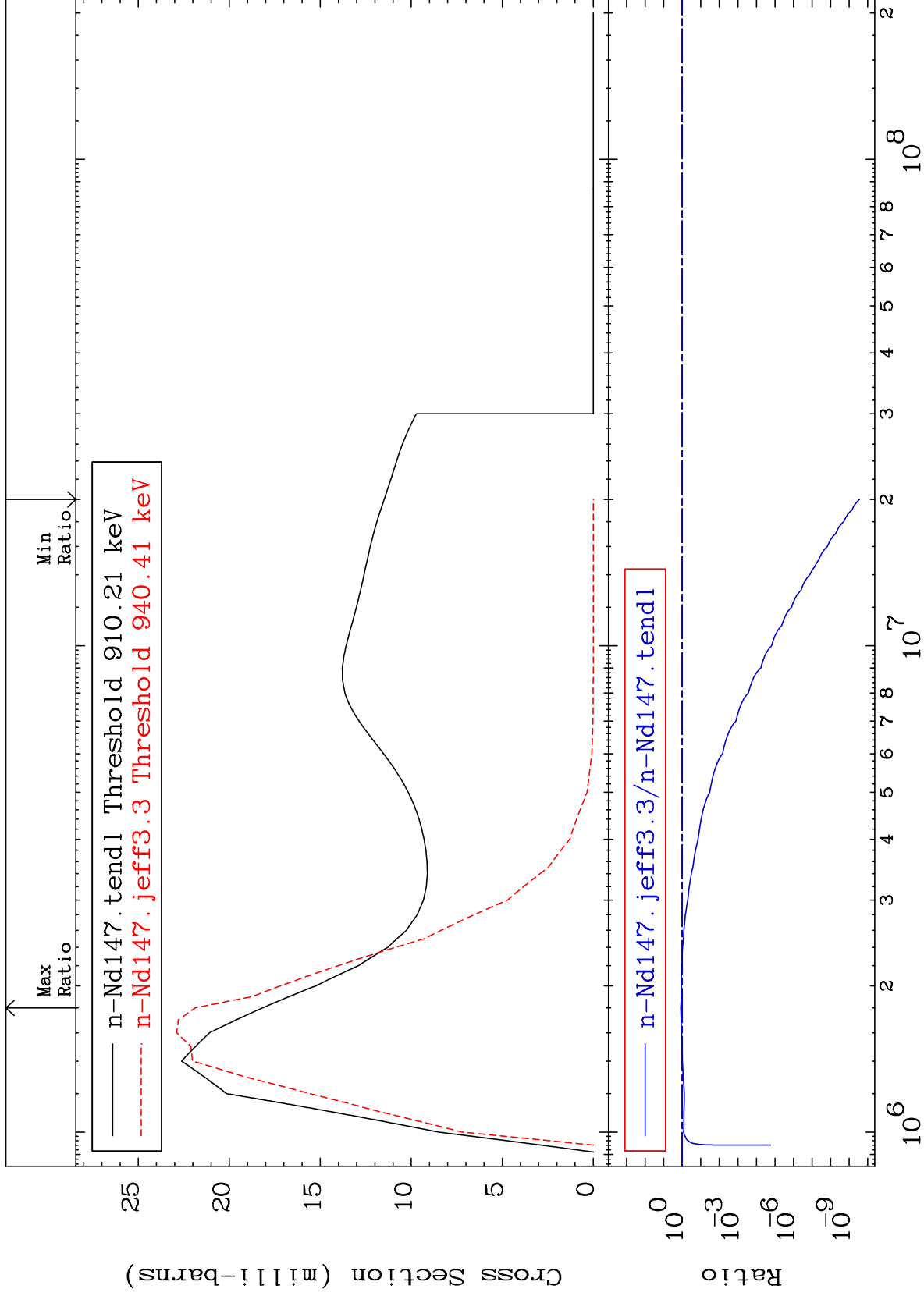
60-Nd-147
-100.0 To 84.37 %



MAT 6040

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

60-Nd-147
-100.0 To 20.30 %



27

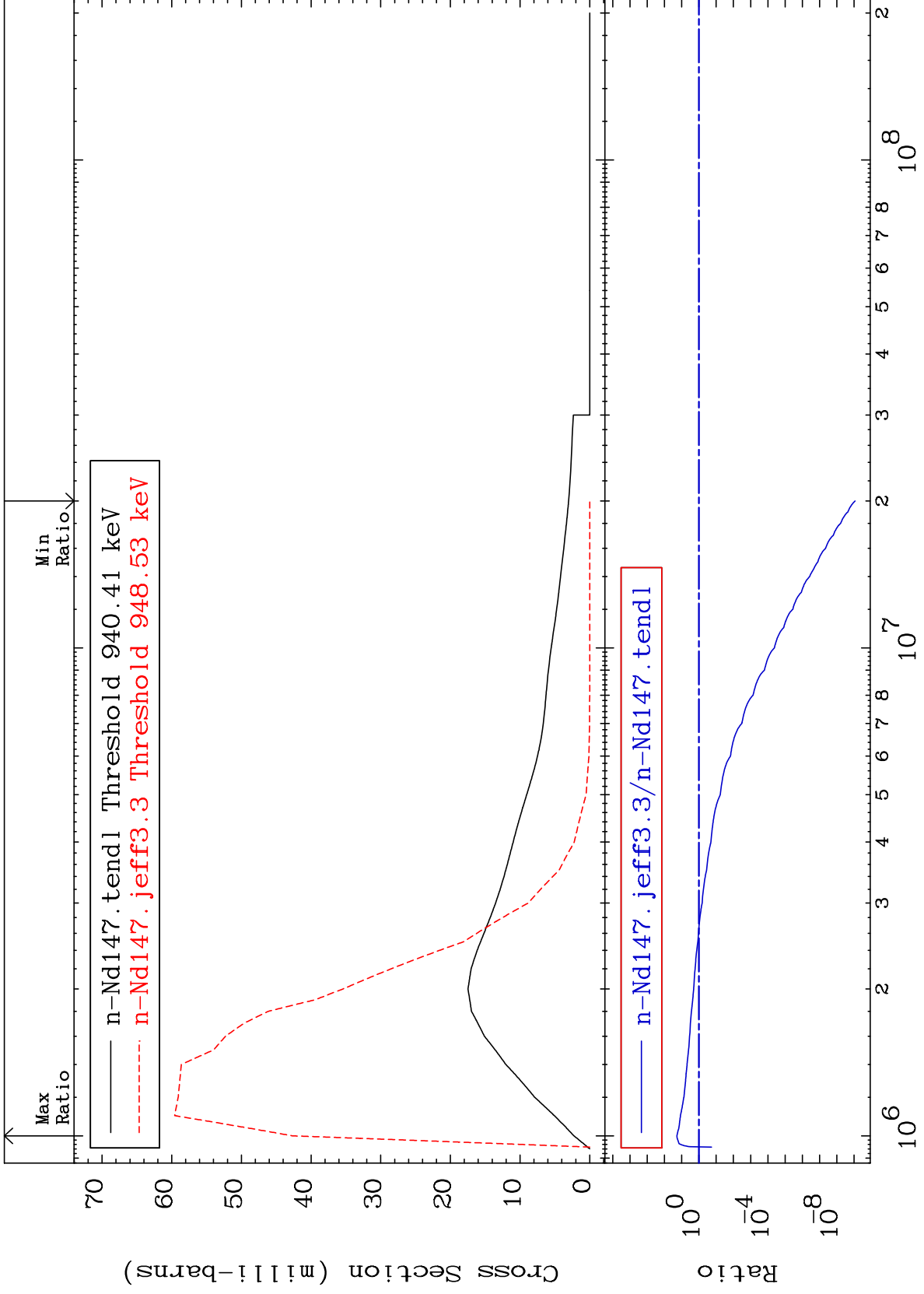
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To 1784. %



28

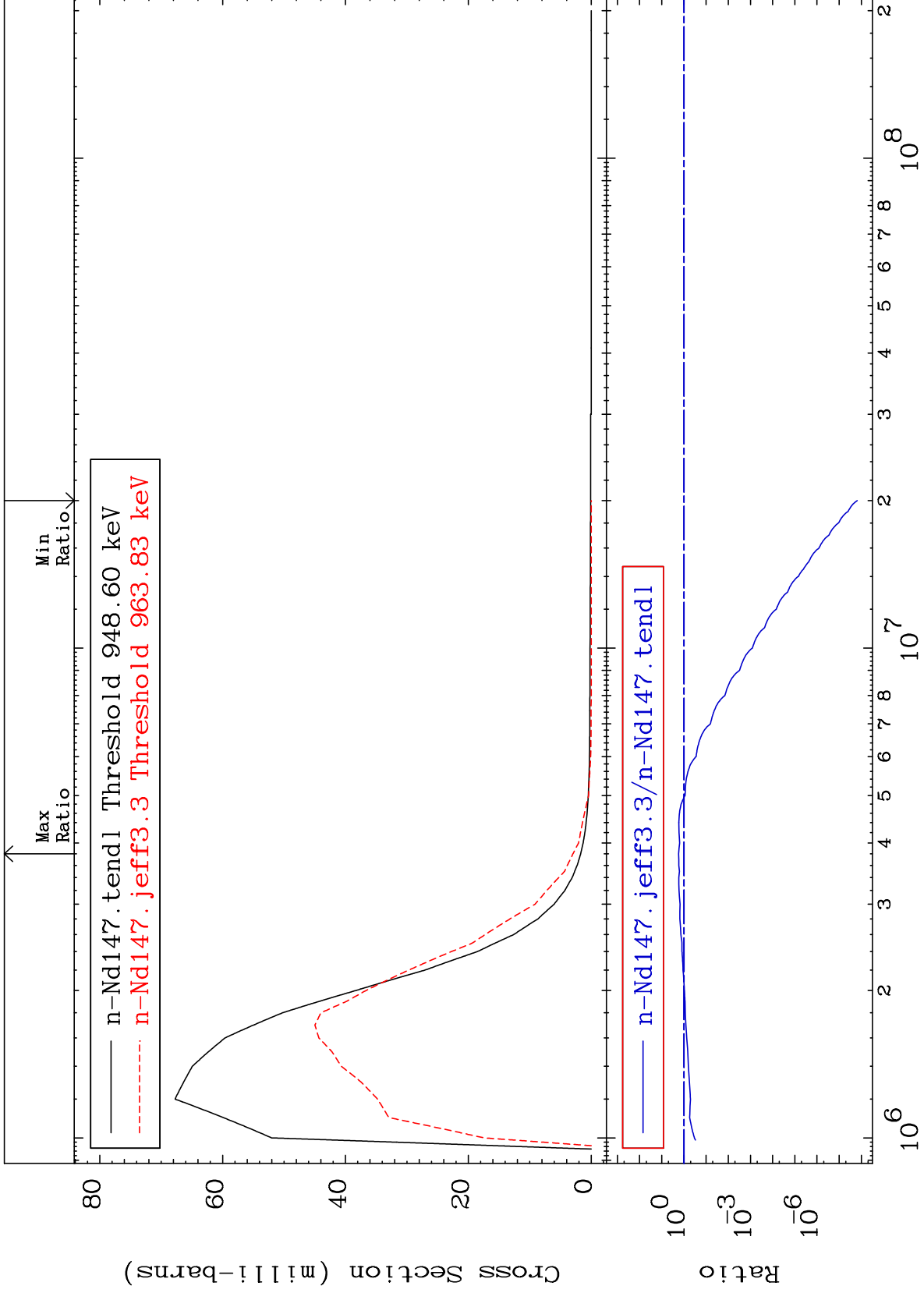
Incident Energy (eV)

60-Nd-147

MAT 6040

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

60-Nd-147
-100.0 To 73.38 %



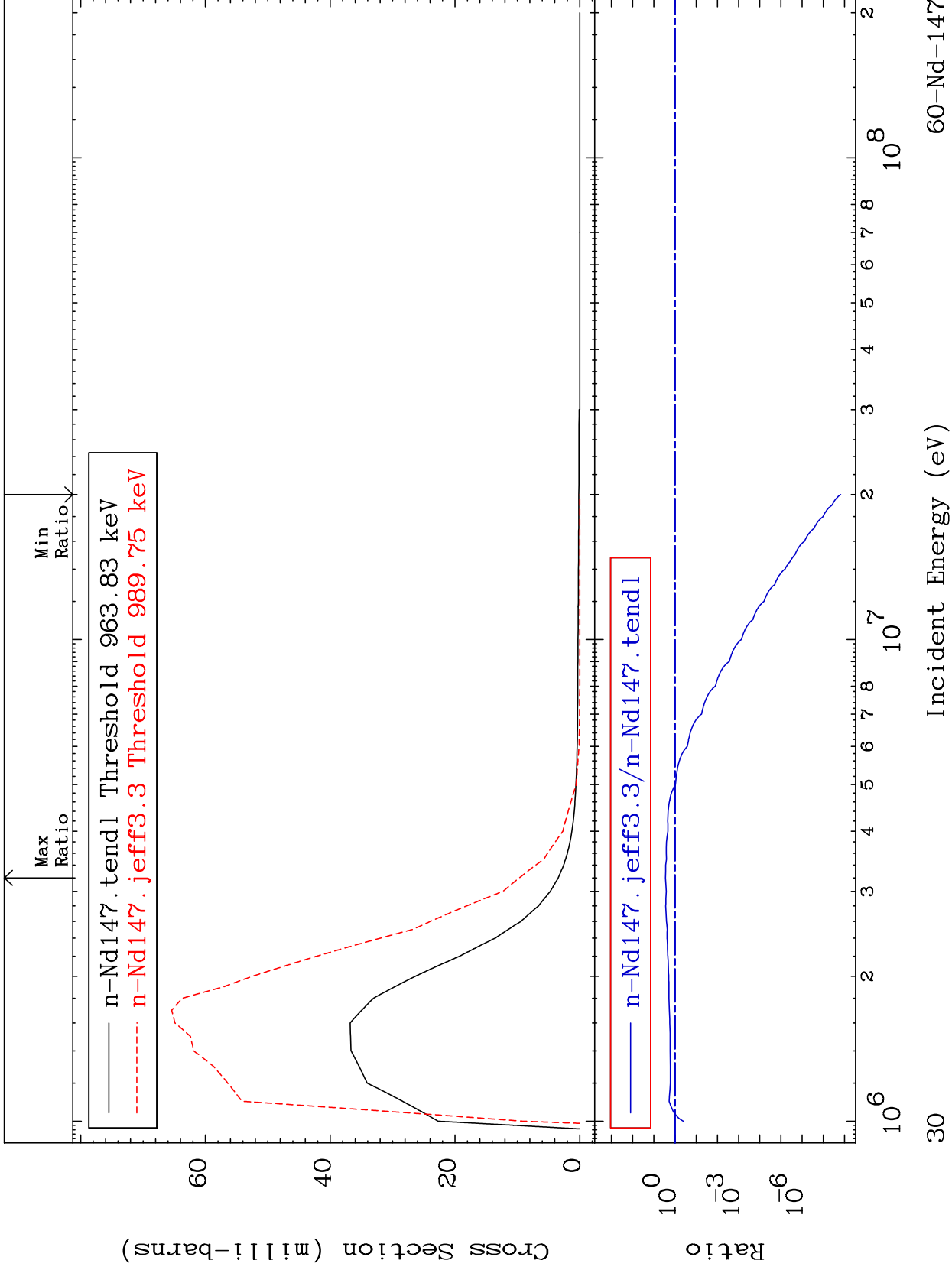
29

60-Nd-147

MAT 6040

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

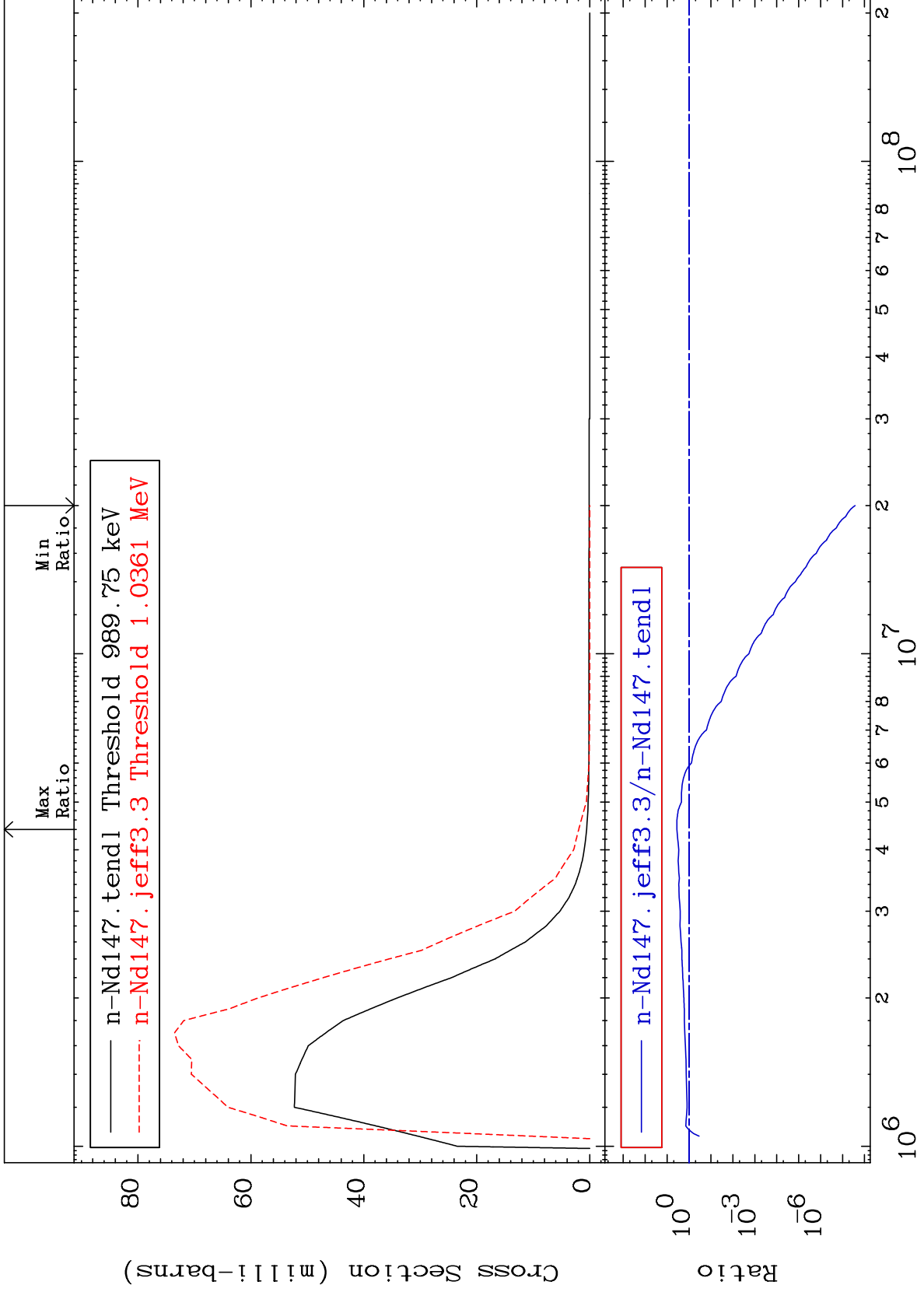
60-Nd-147
-100.0 To 181.4 %



MAT 6040

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

60-Nd-147
-100.0 To 256.6 %



31

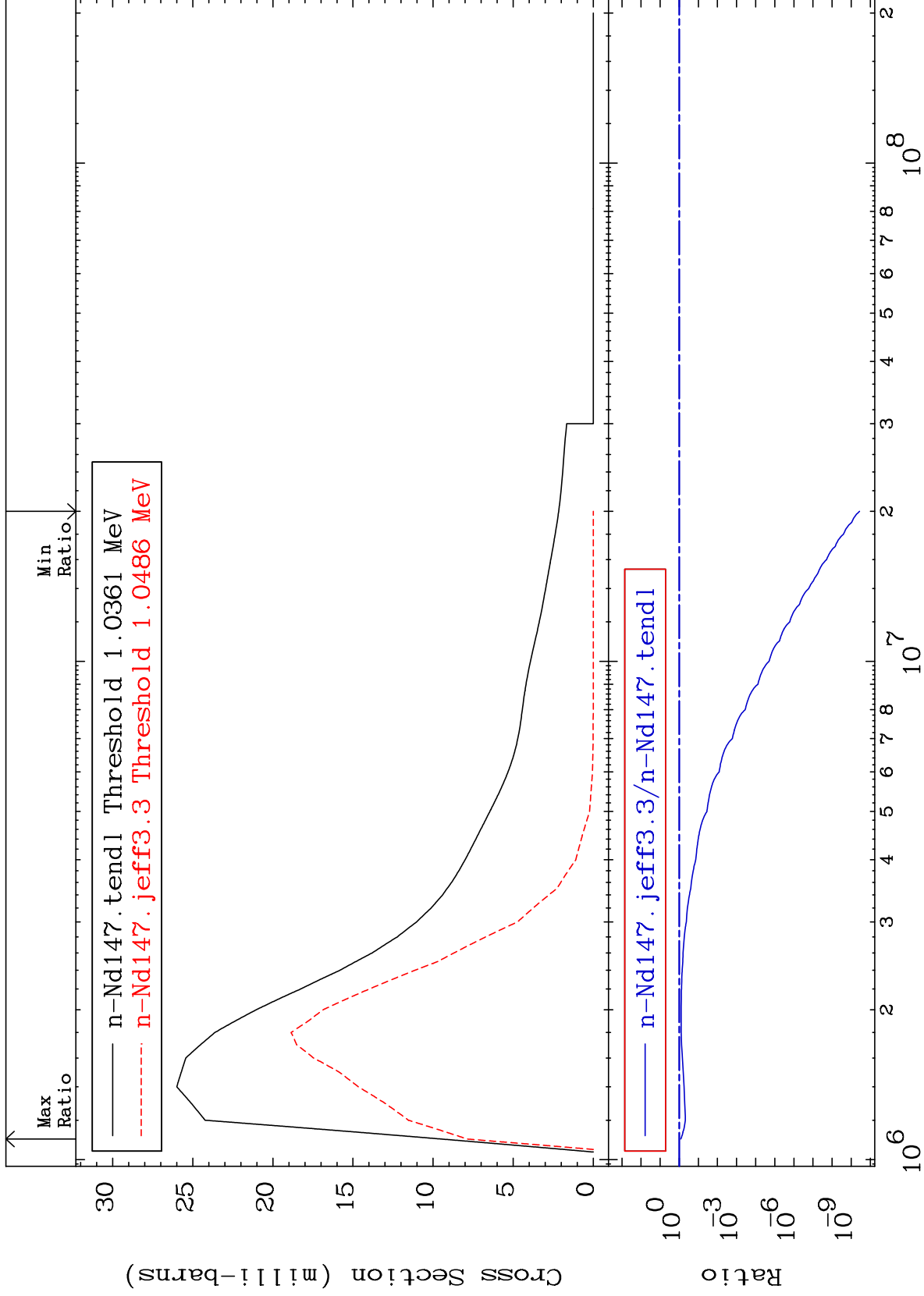
Incident Energy (eV)

60-Nd-147

MAT 6040

MT= 73 (n,n') Level
Cross Section

60-Nd-147
-100.0 To -16.85%



32

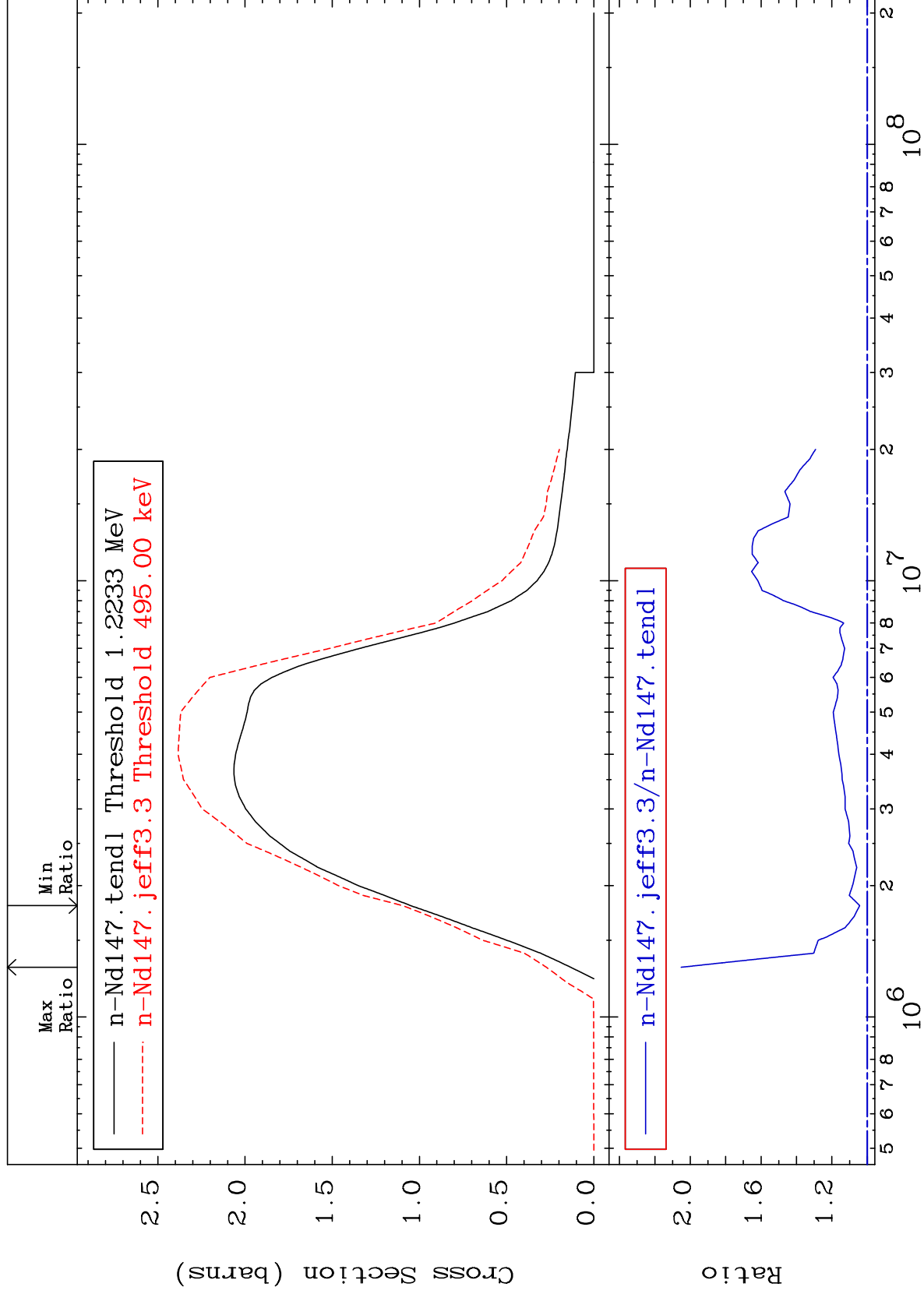
Incident Energy (eV)

60-Nd-147

MAT 6040

(n, n') Continuum
Cross Section

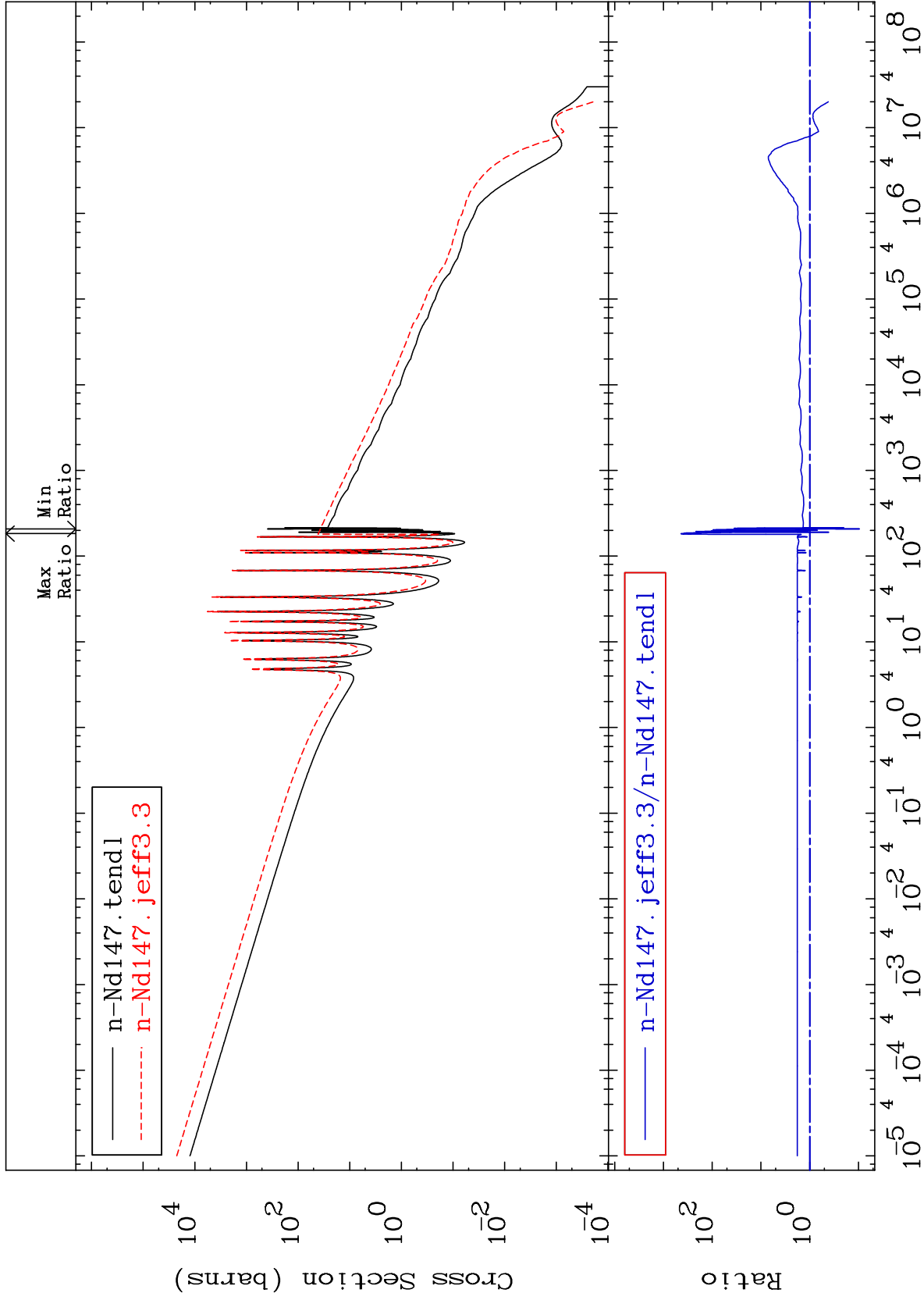
60-Nd-147
4.314 To 105.1 %



MAT 6040

(n, γ)
Cross Section

60-Nd-147
-90.49 To 9999. %



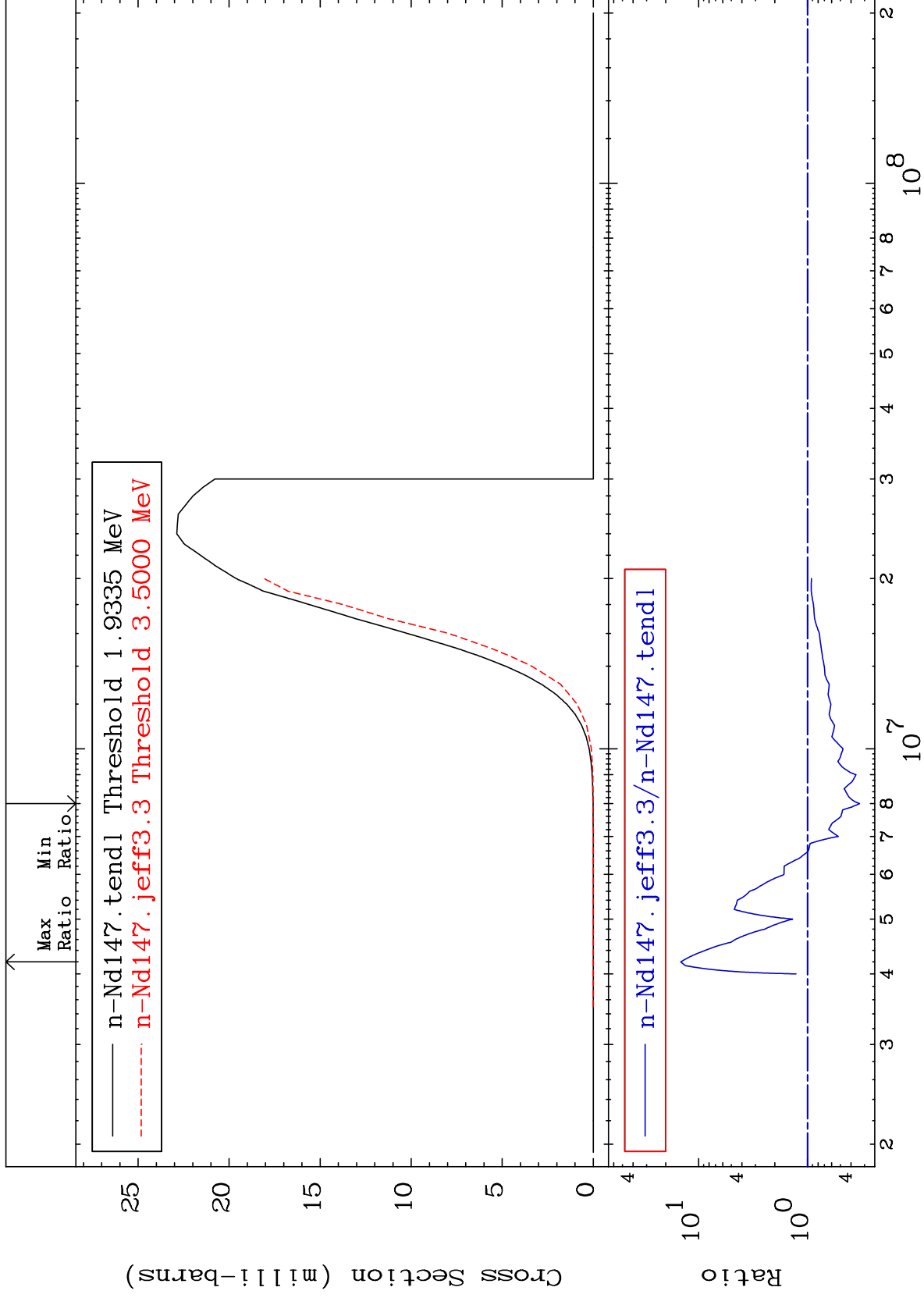
MAT 6040

(n,p)

60-Nd-147

Cross Section

-66.66 To 1357. %



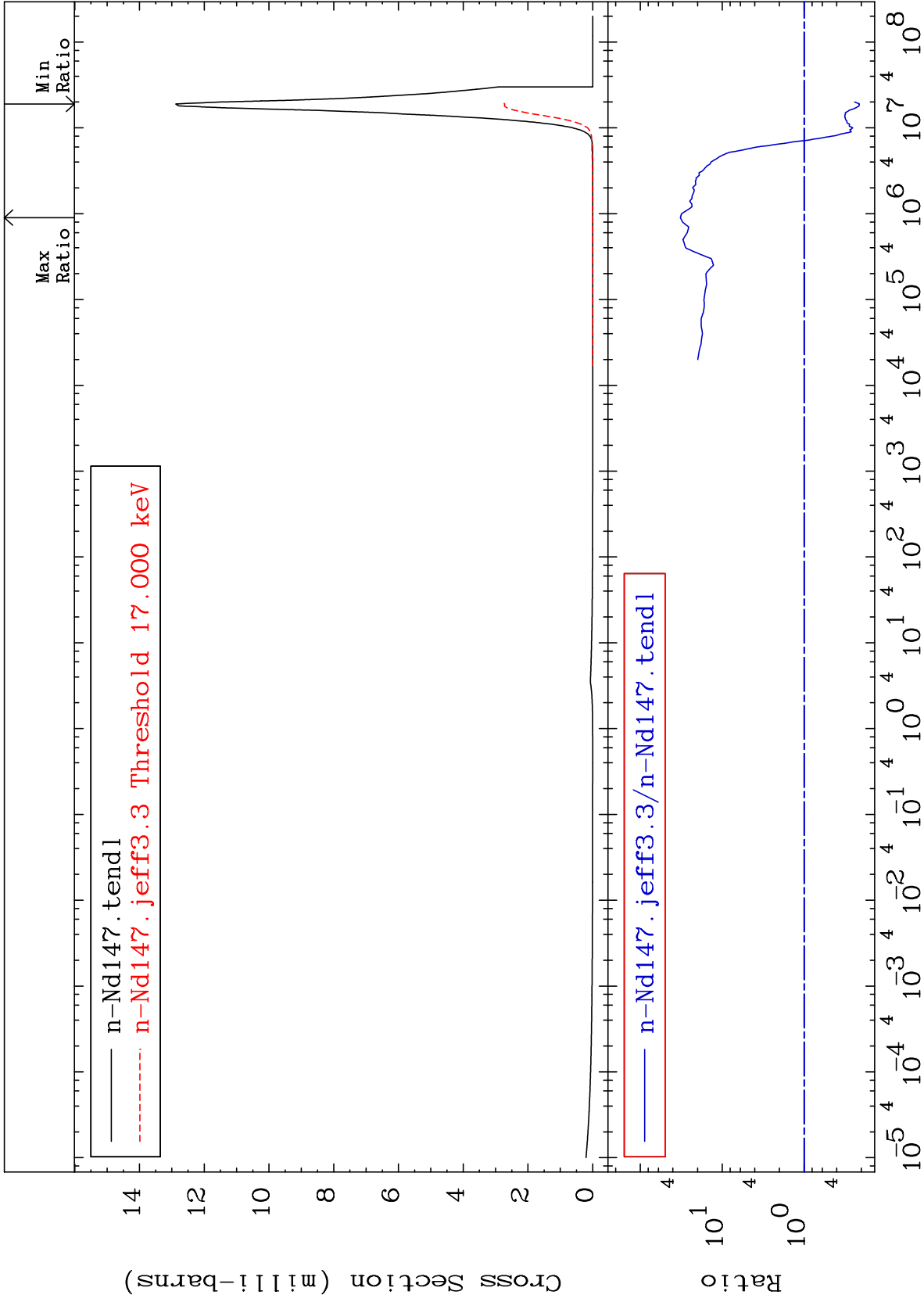
MAT 6040

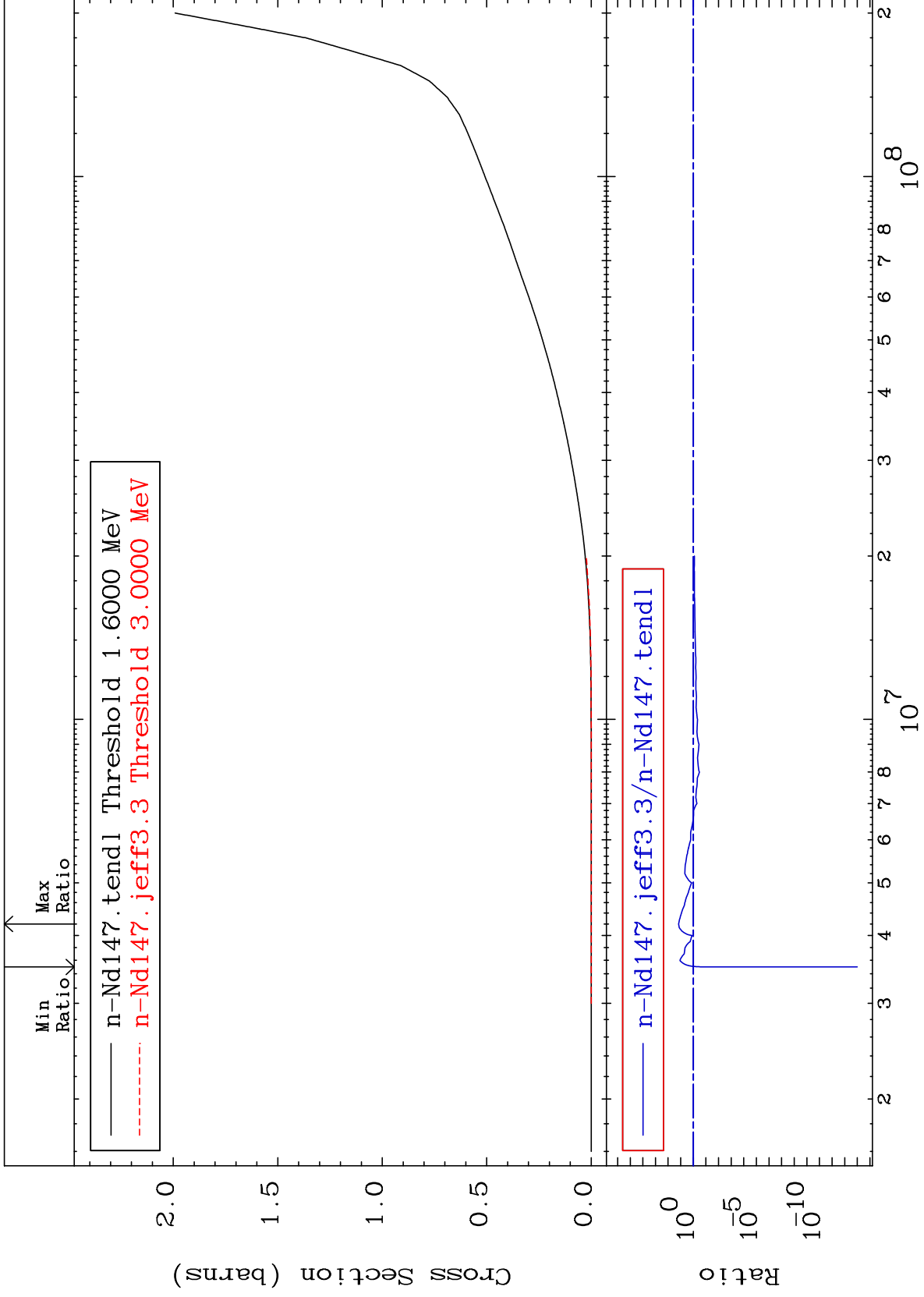
(n, α)

60-Nd-147

Cross Section

-78.90 To 3143. %

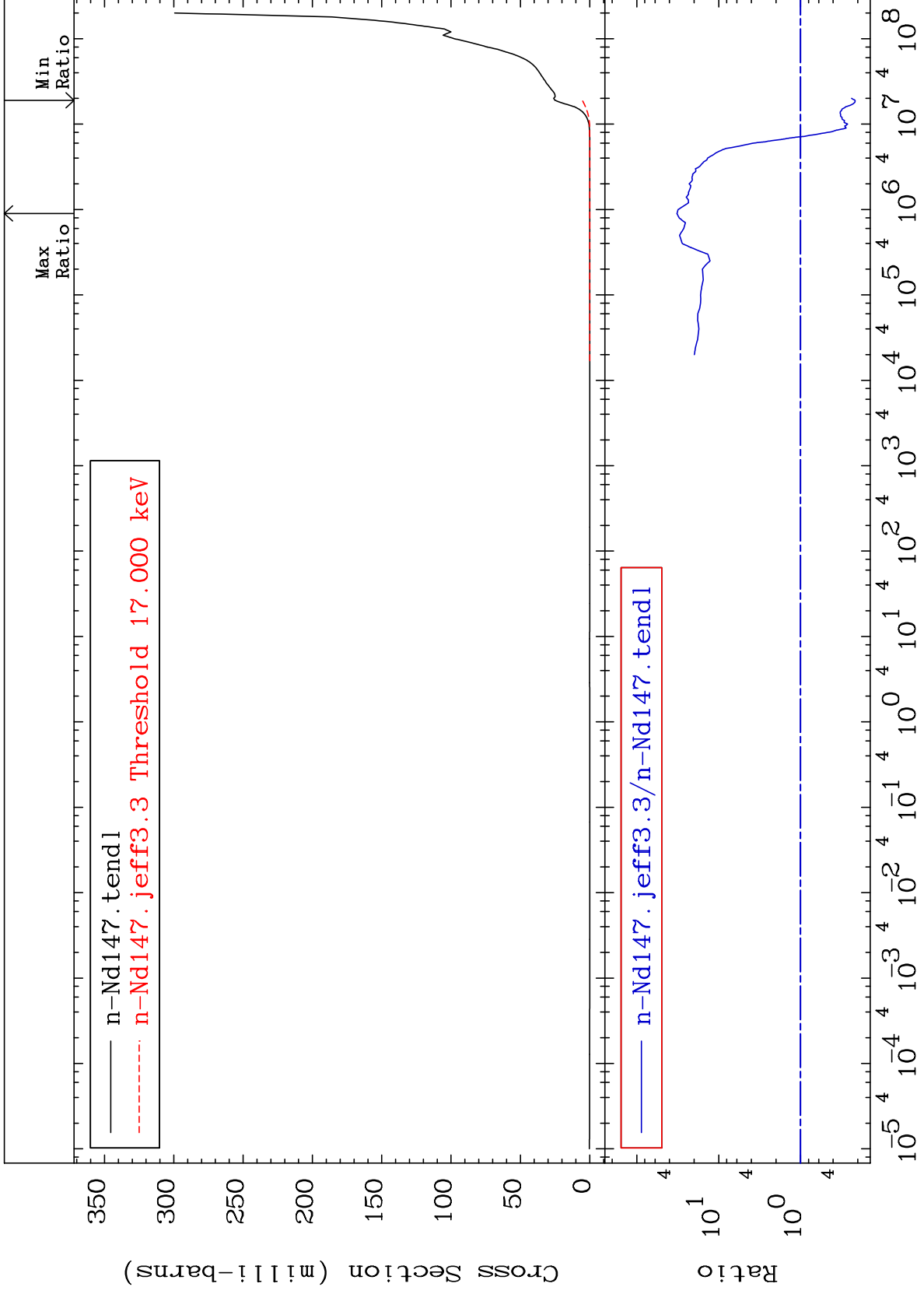




MAT 6040

He-4 Production
Cross Section

60-Nd-147
-78.39 To 3143. %



38

Incident Energy (eV)

60-Nd-147

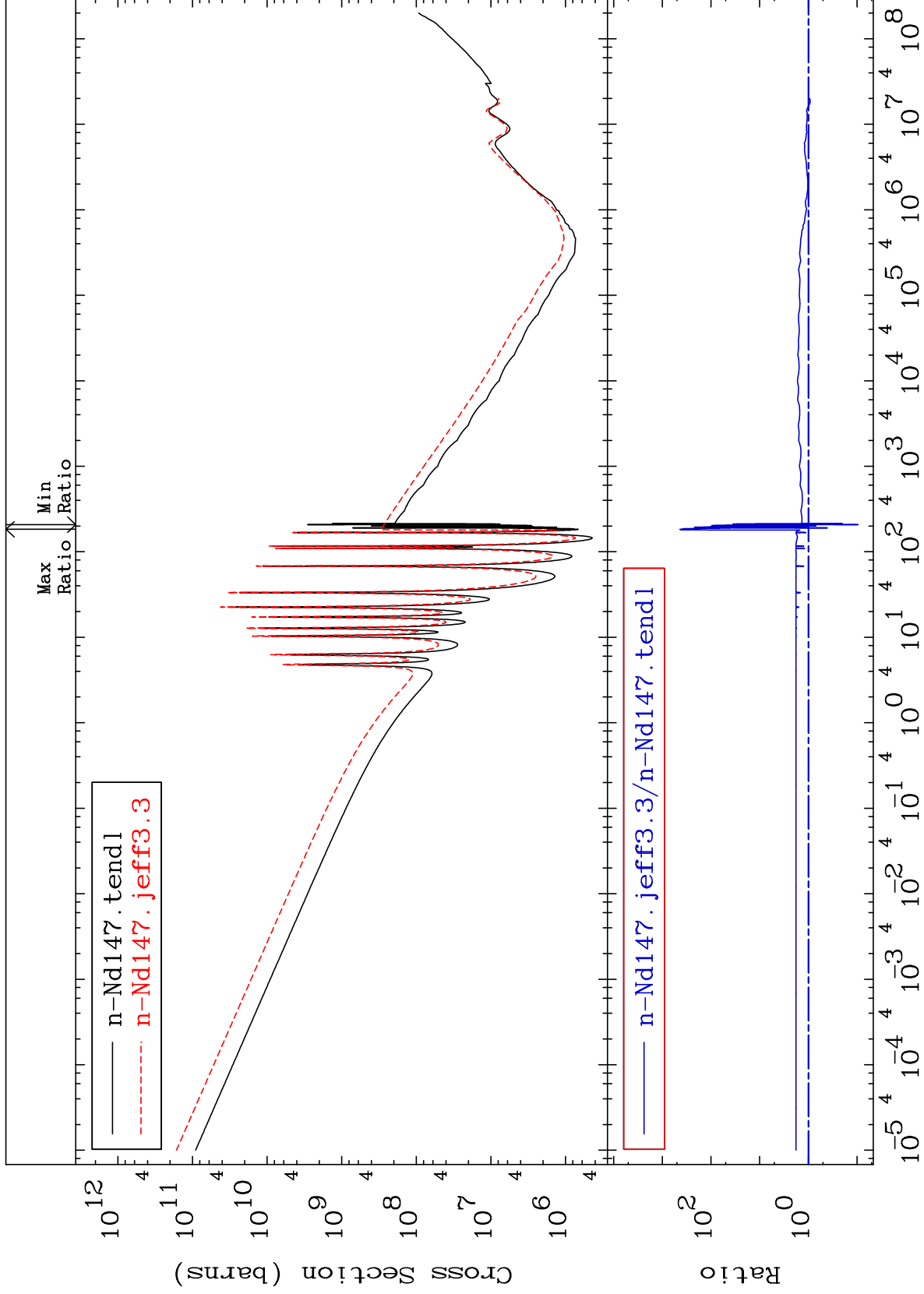
MAT 6040

Kerma total (eV-barns)

60-Nd-147

-90.49 To 9999. %

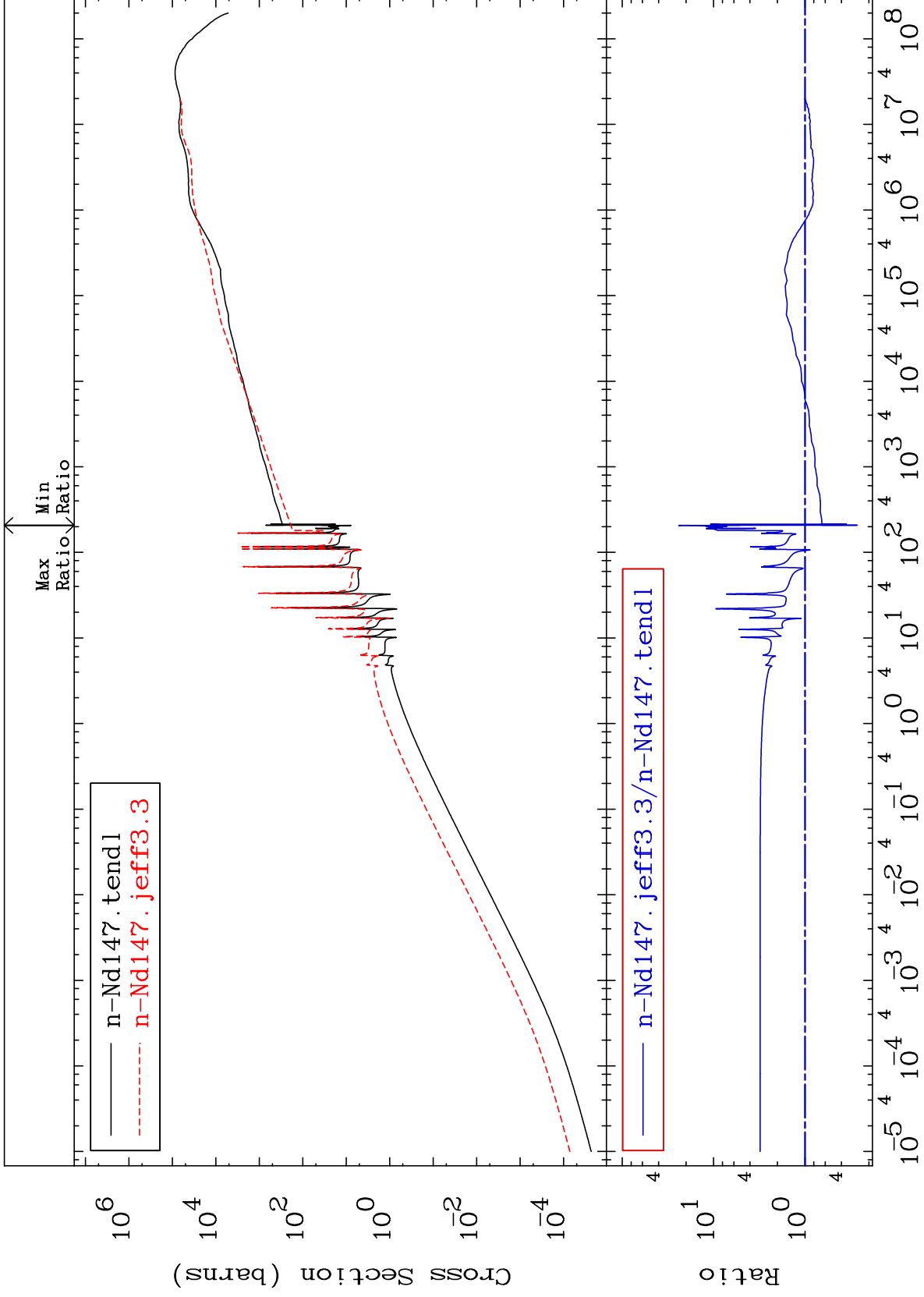
Cross Section



MAT 6040

Kerma elastic
Cross Section

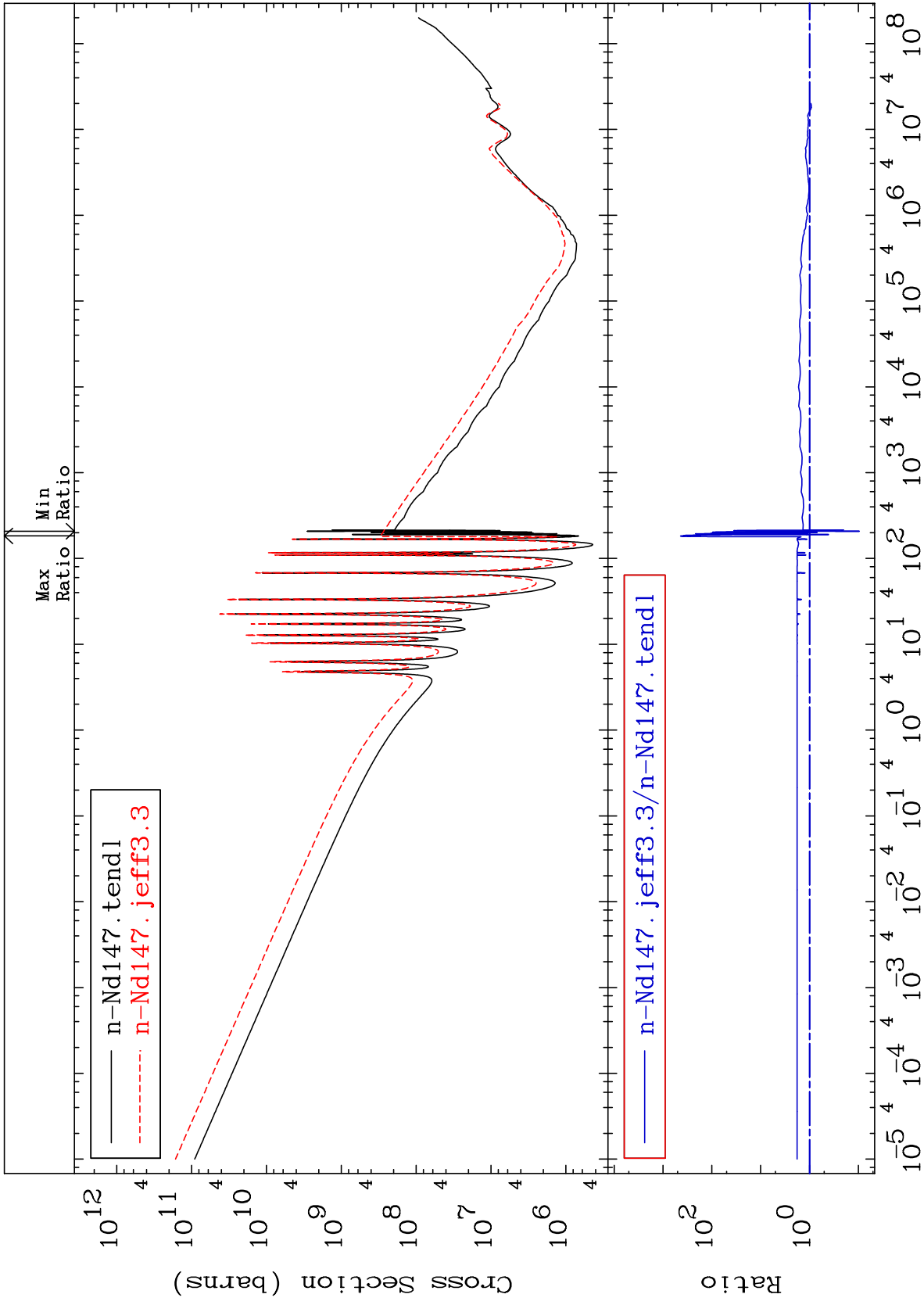
60-Nd-147
-73.20 To 2314. %



Incident Energy (eV)

60-Nd-147

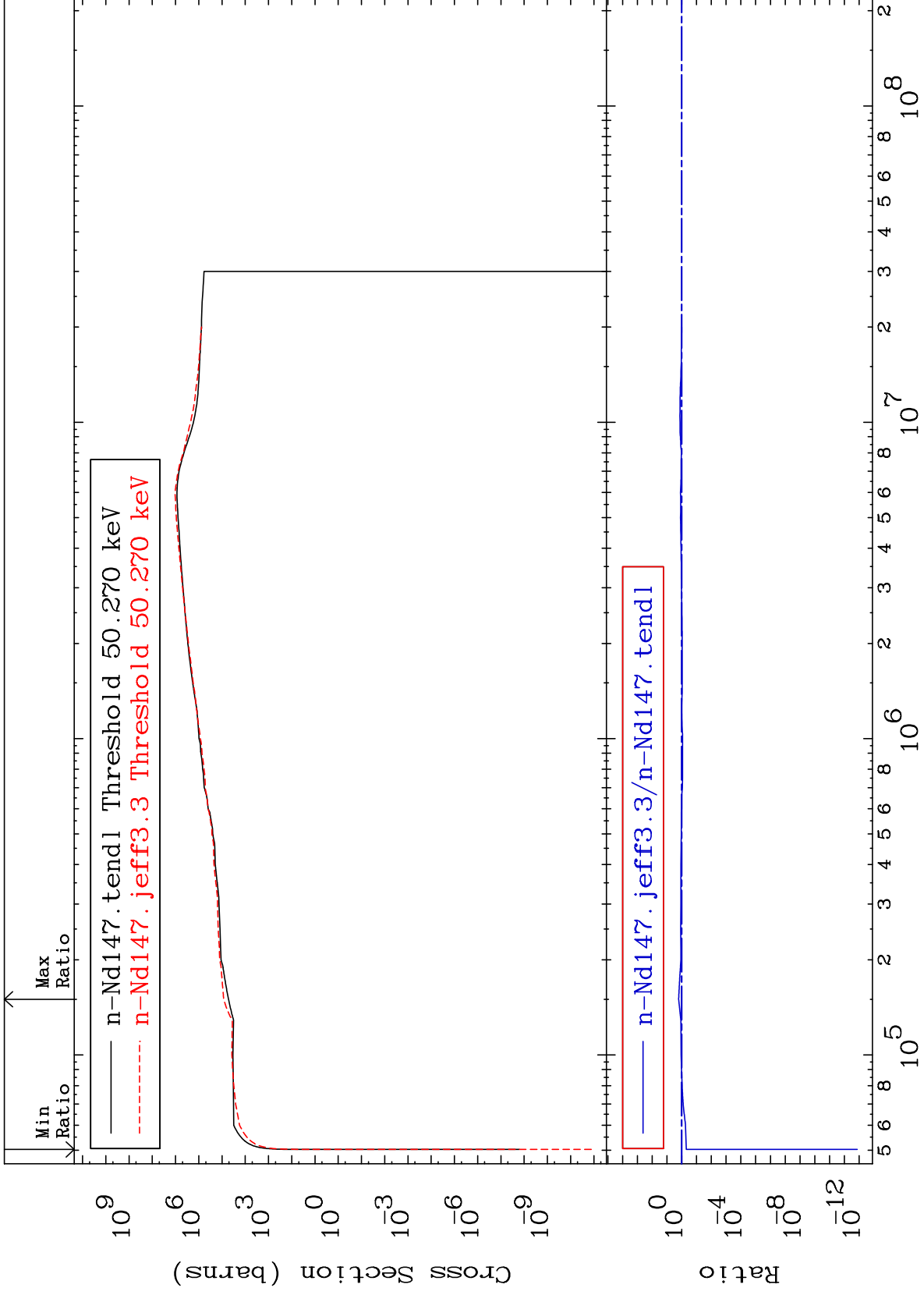
40

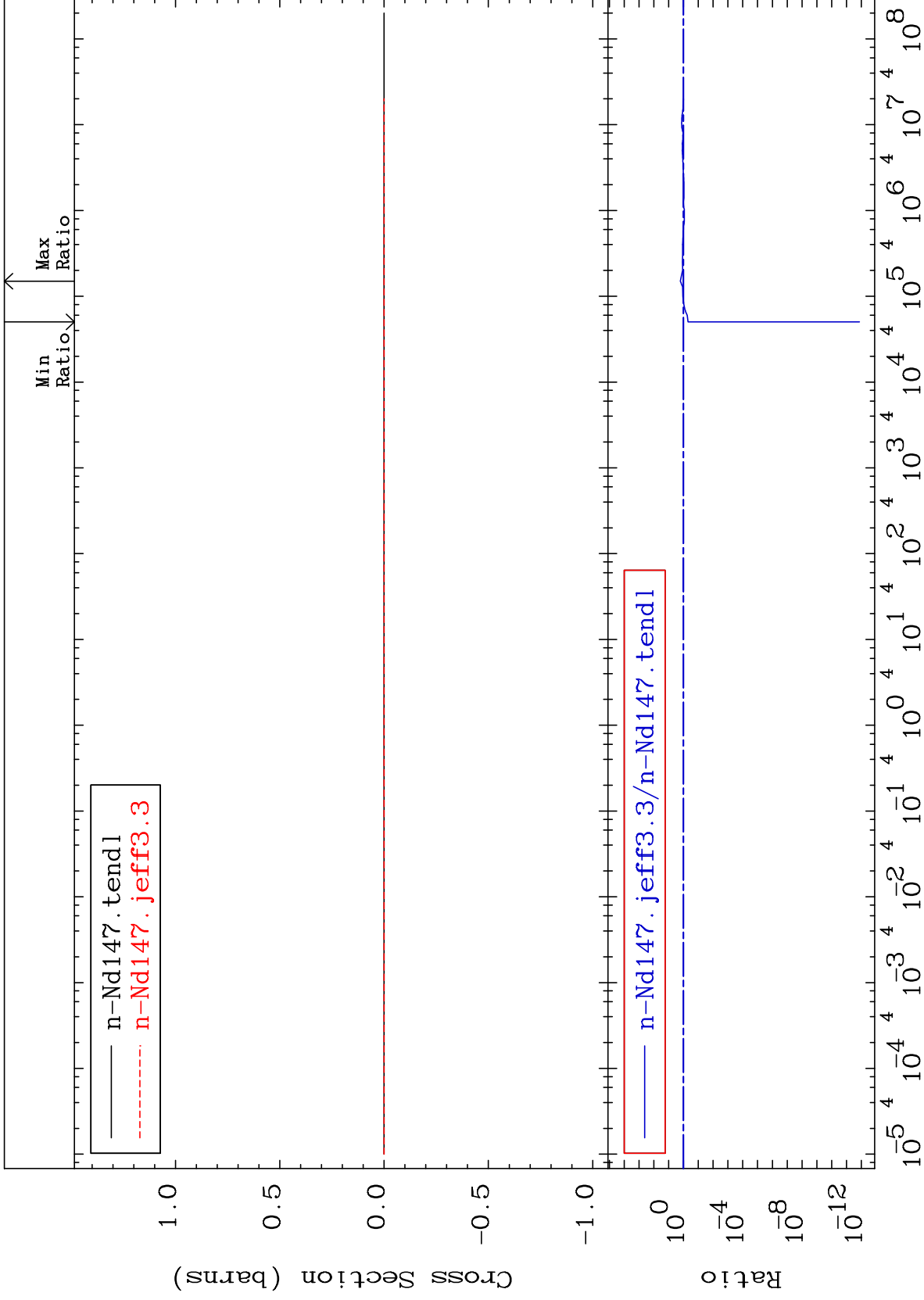


MAT 6040

Kerma inelastic (mt51-91)
Cross Section

60-Nd-147
-100.0 To 61.95 %

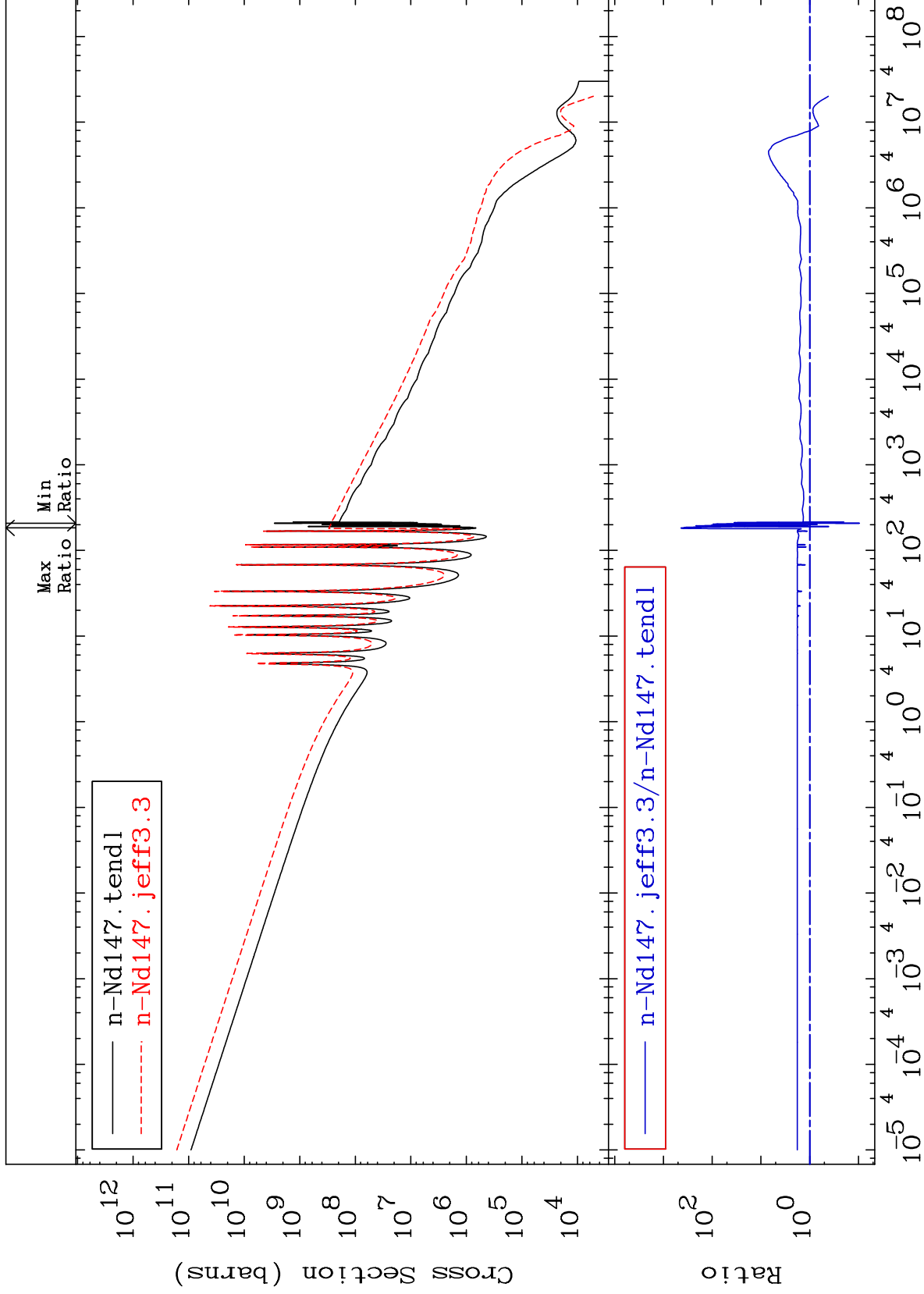




MAT 6040

Kerma capture (mt102)
Cross Section

60-Nd-147
-90.49 To 9999. %



44

Incident Energy (eV)

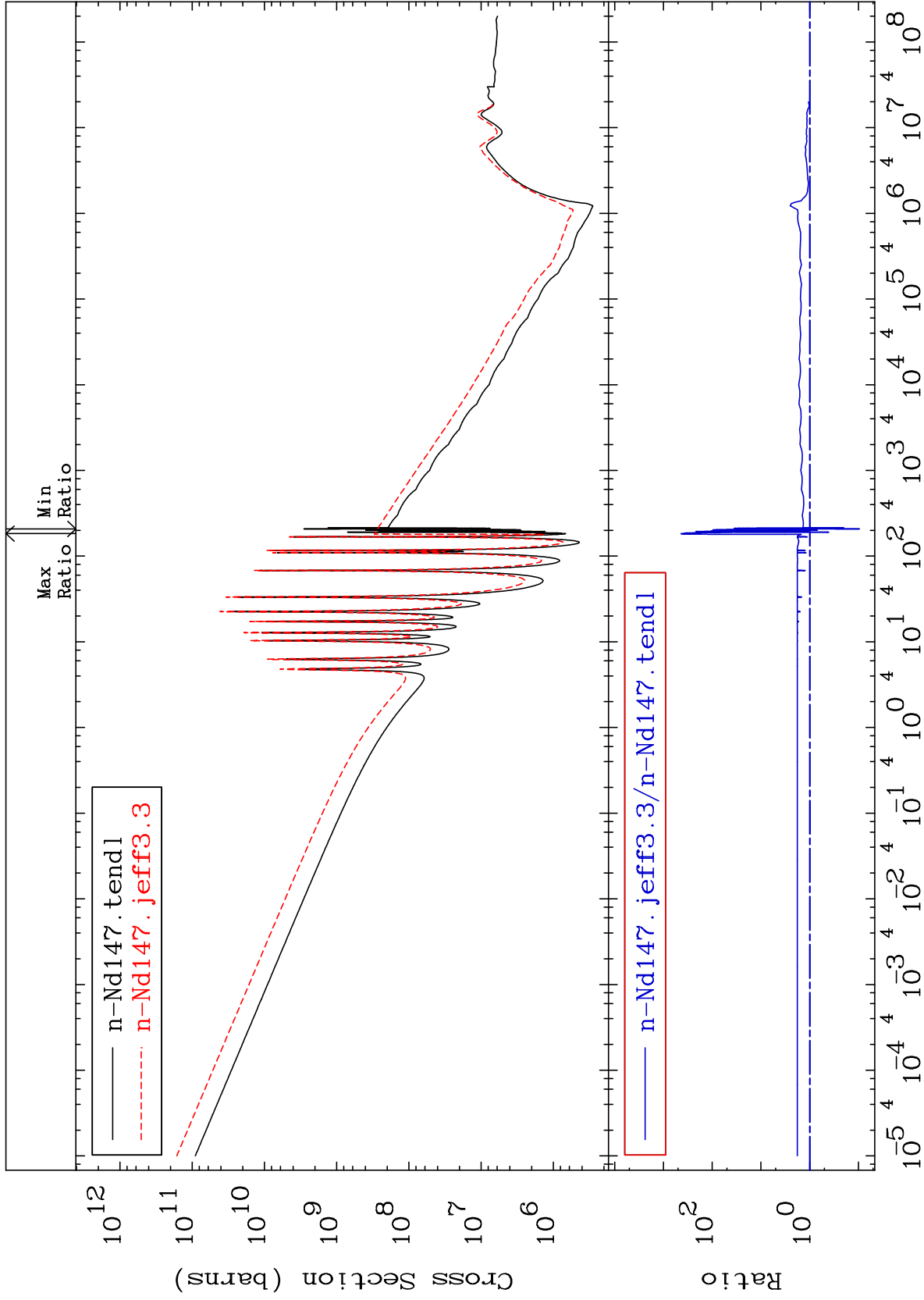
60-Nd-147

MAT 6040

Total photon (eV-barns)
Cross Section

60-Nd-147

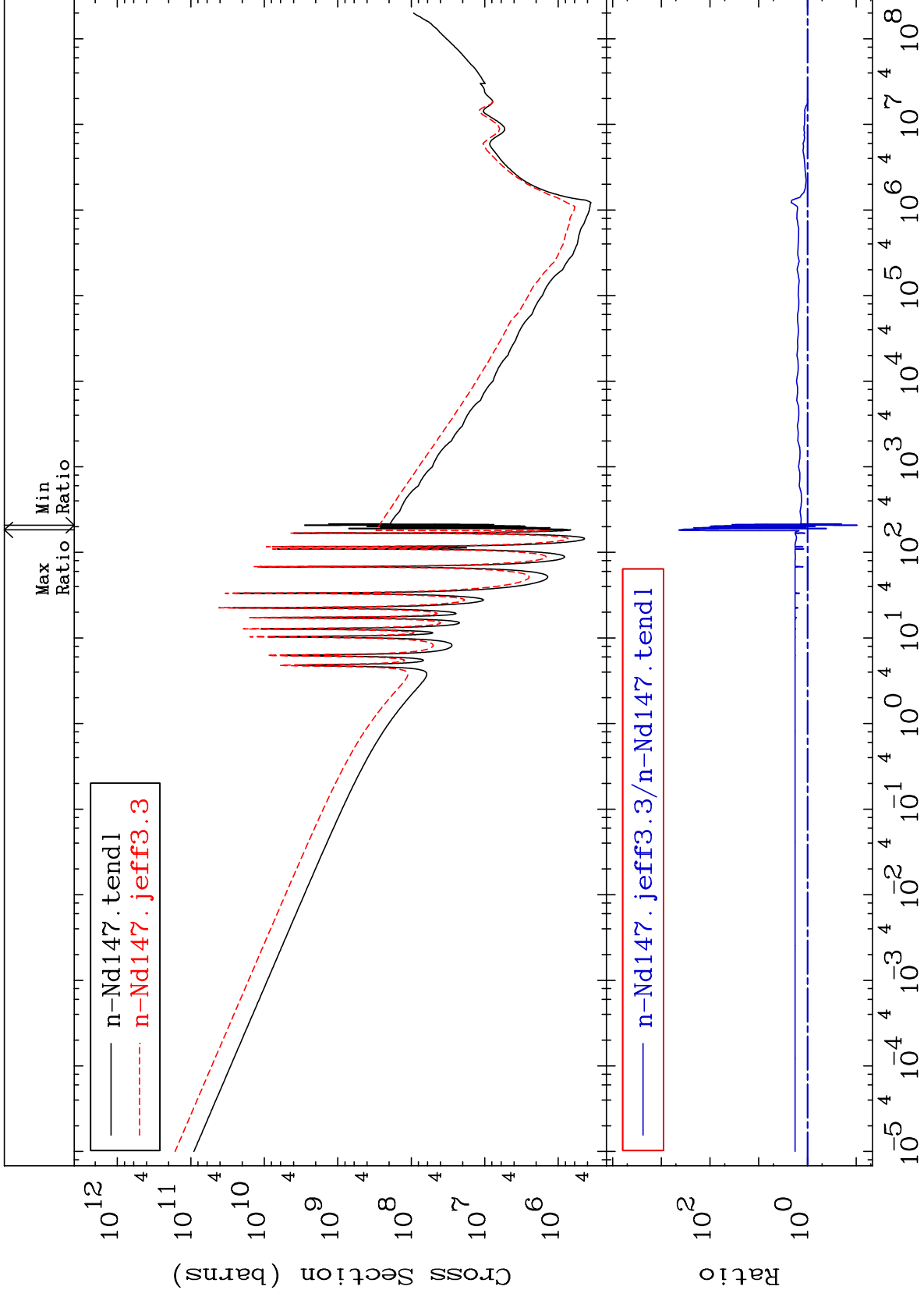
-90.49 To 9999. %



45

Incident Energy (eV)

60-Nd-147



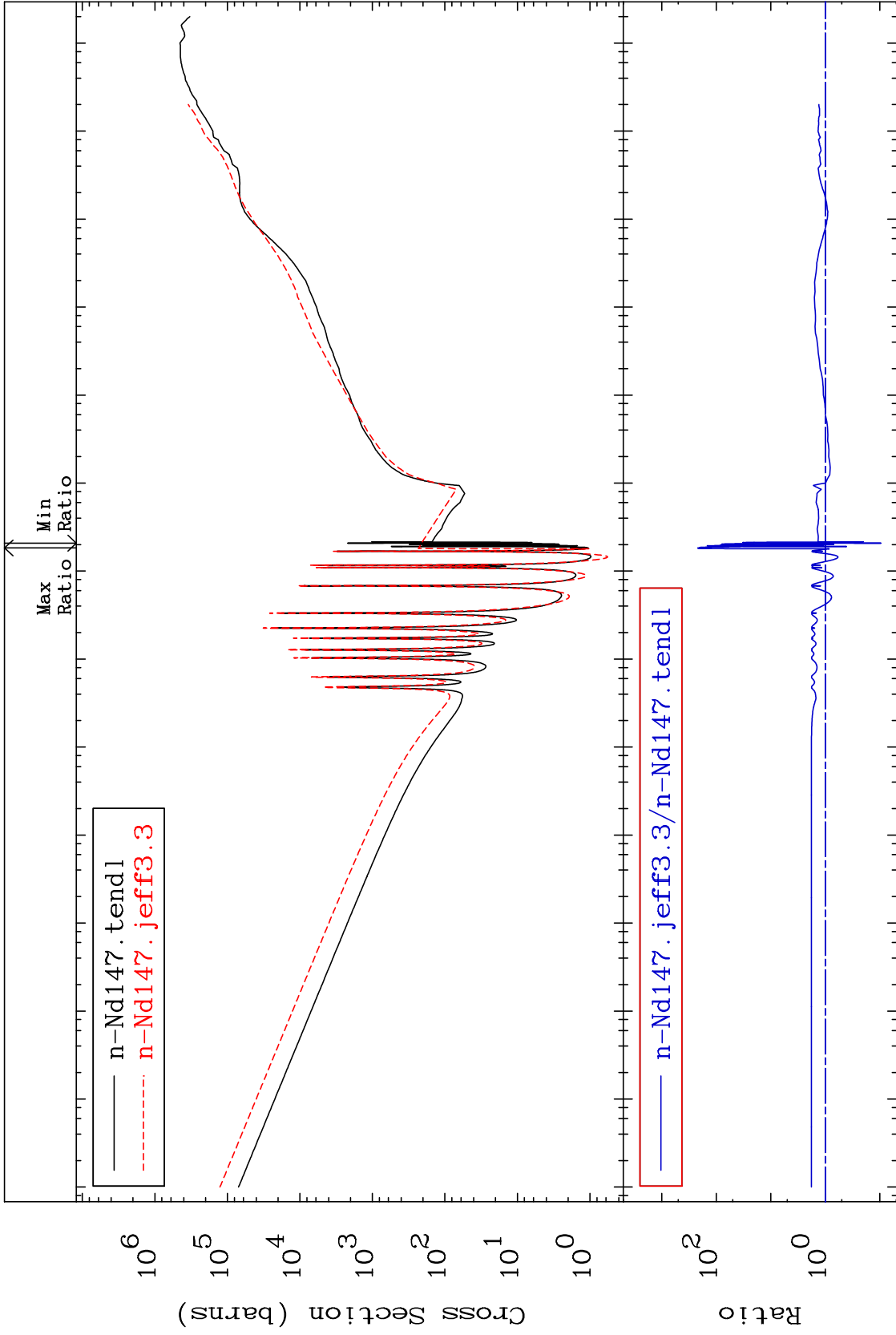
MAT 6040

Dpa total (eV-barns)

60-Nd-147

-90.49 To 9999. %

Cross Section



— n-Nd147.tendl
- - - n-Nd147.jeff3.3

— n-Nd147.jeff3.3/n-Nd147.tendl

47

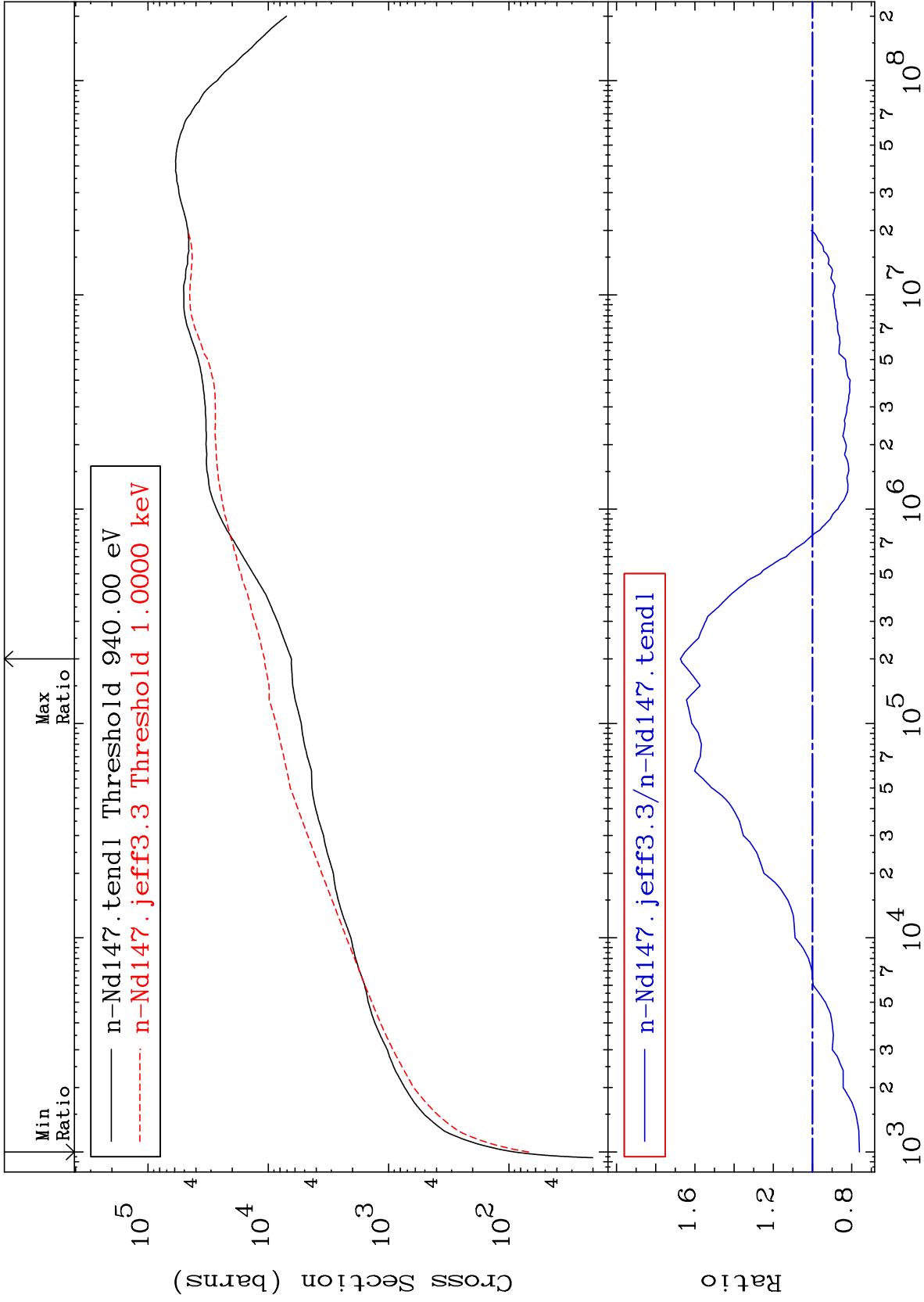
Incident Energy (eV)

60-Nd-147

MAT 6040

Dpa elastic (mt2)
Cross Section

60-Nd-147
-23.93 To 67.41 %



48

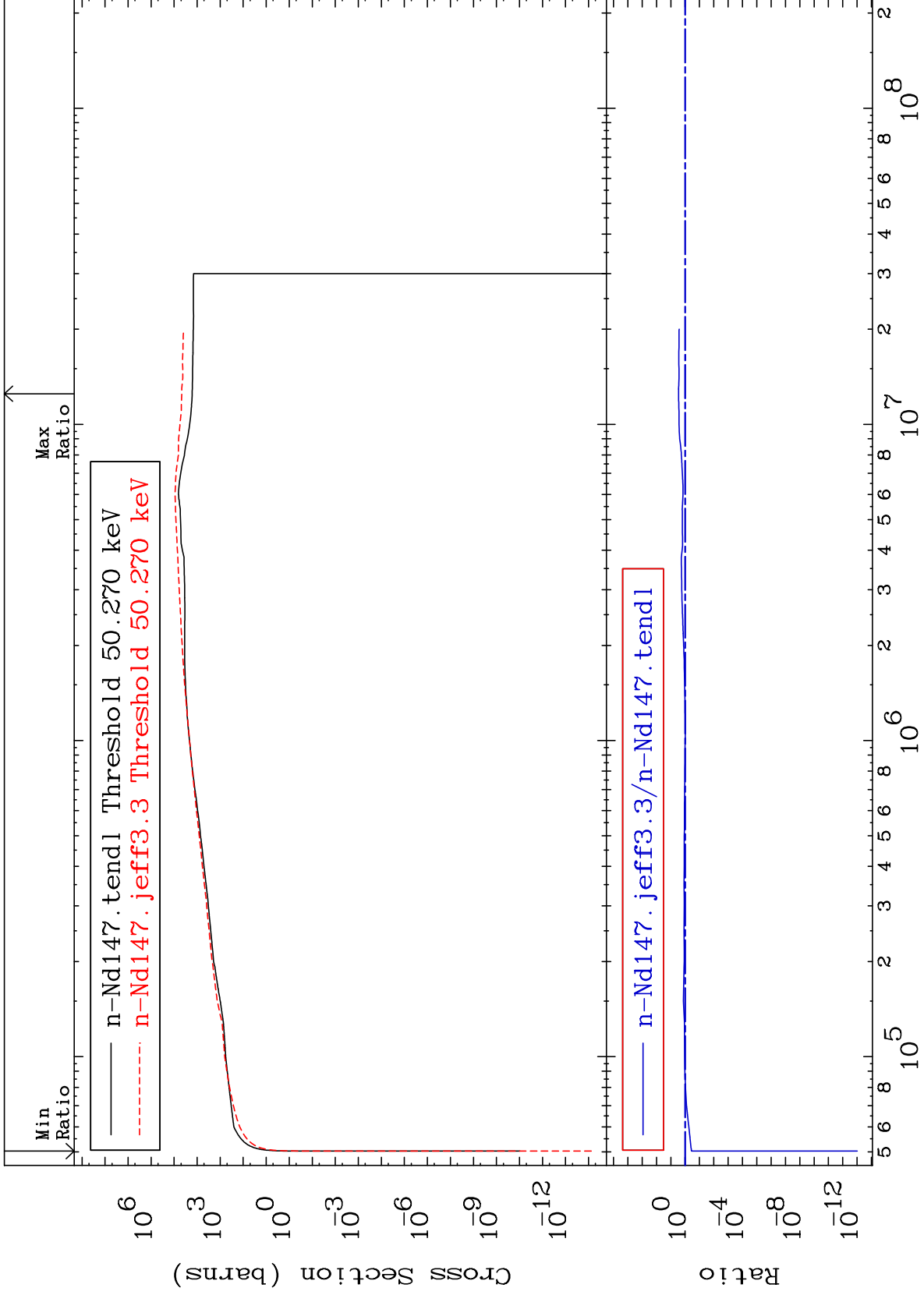
Incident Energy (eV)

60-Nd-147

MAT 6040

Dpa inelastic (mt51-91)
Cross Section

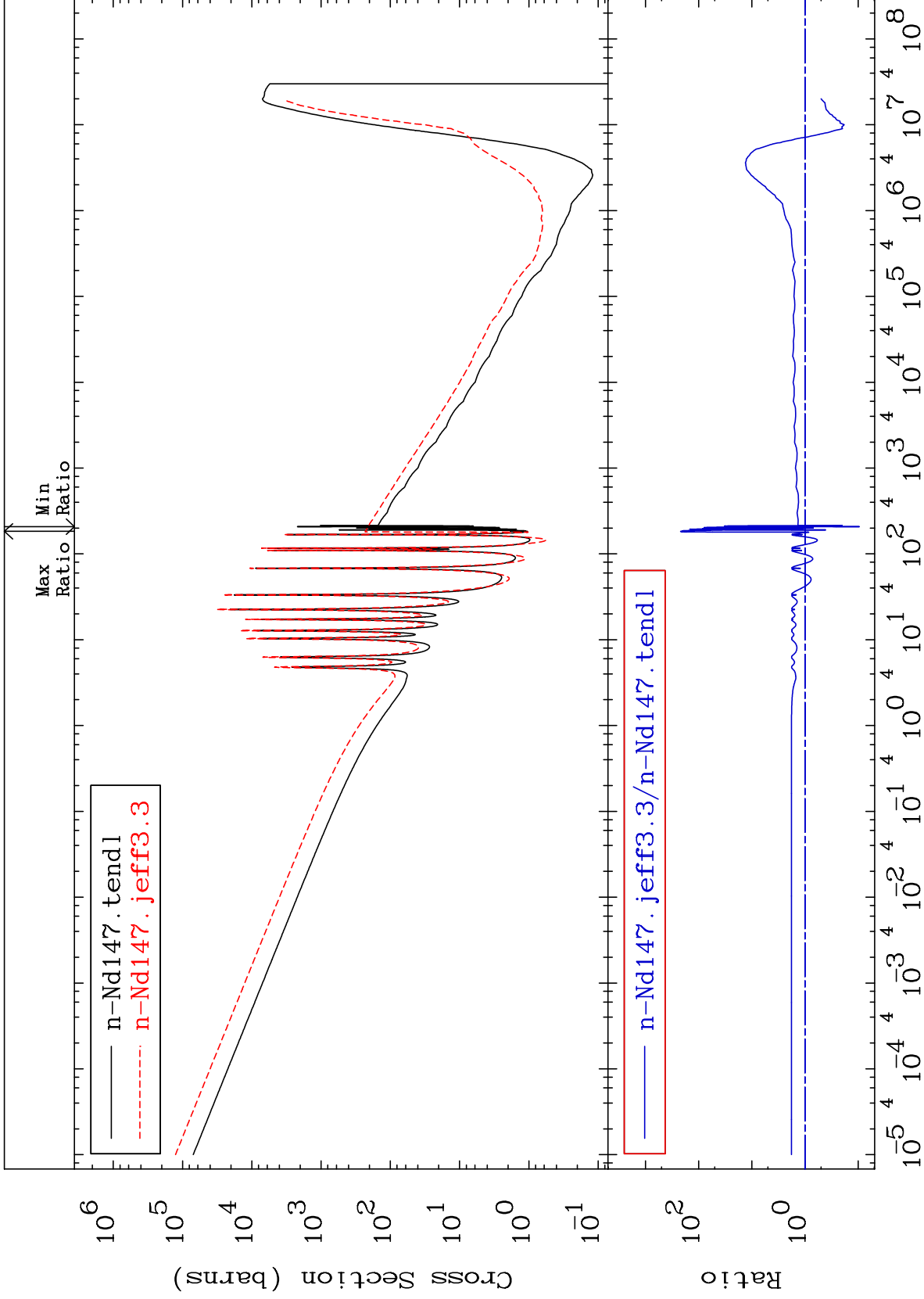
60-Nd-147
-100.0 To 184.4 %



MAT 6040

Dpa disappearance (mt102 -120)
Cross Section

60-Nd-147
-90.49 To 9999. %



50

Incident Energy (eV)

60-Nd-147