

Program Complot
(Version 2018-1)

by

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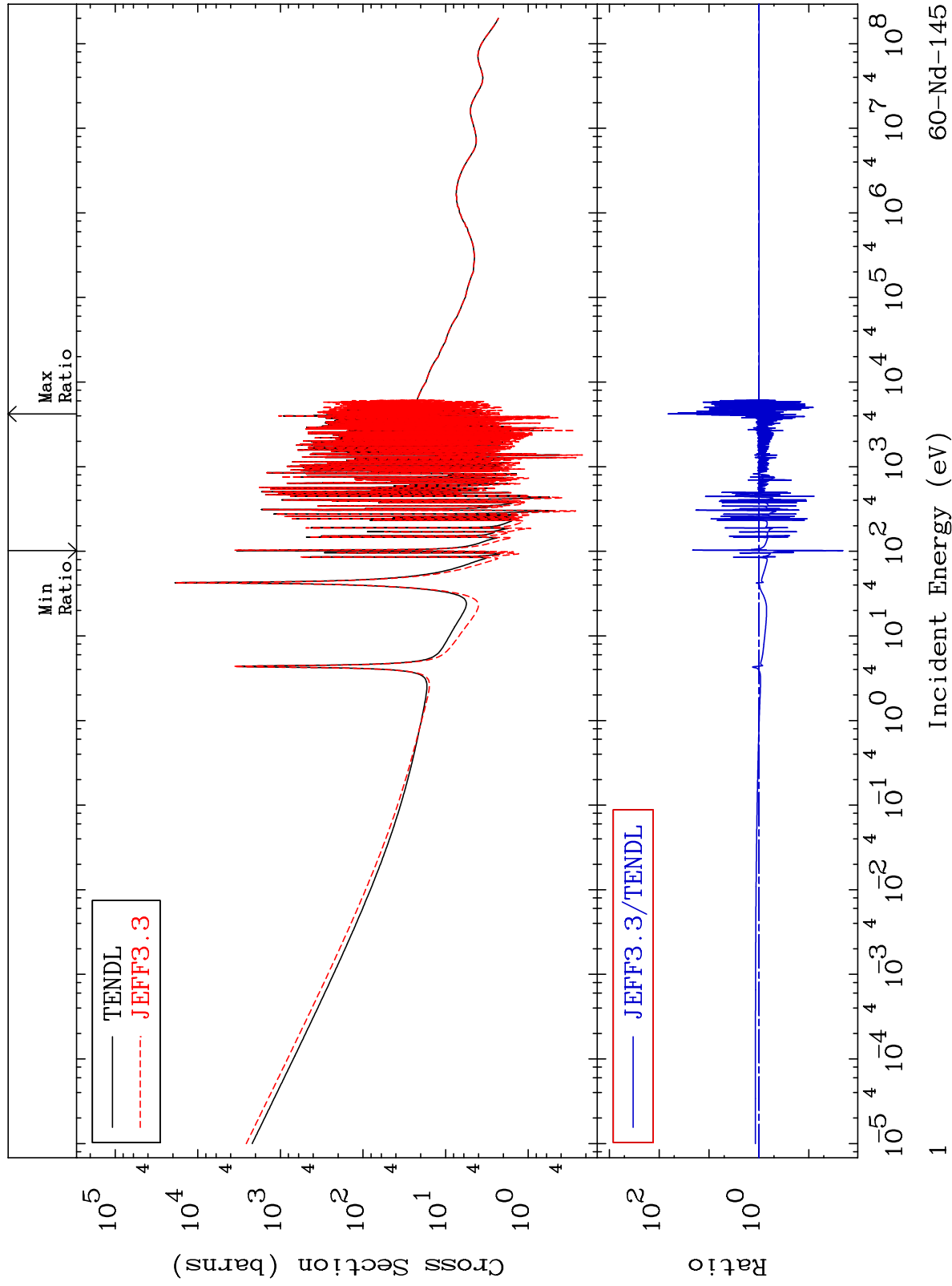
E.Mail: redcullen1@comcast.net
Web: redcullen1.net/HOMEPAGE.NEW

Press Mouse Button to Start

MAT 6034

Total
Cross Section

60-Nd-145
-97.92 To 6553. %

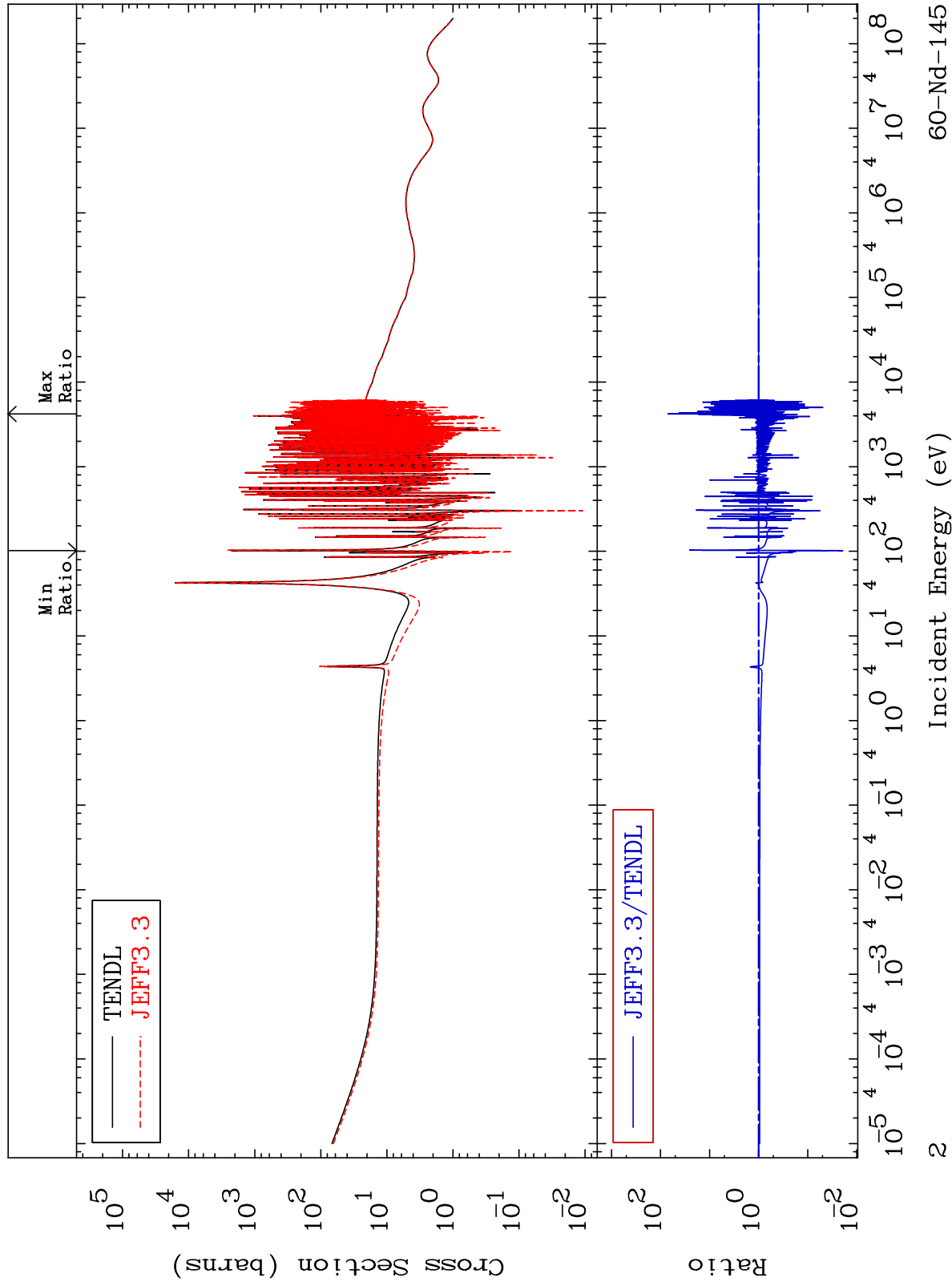


60-Nd-145

MAT 6034

Elastic
Cross Section

60-Nd-145
-98.08 To 6929. %

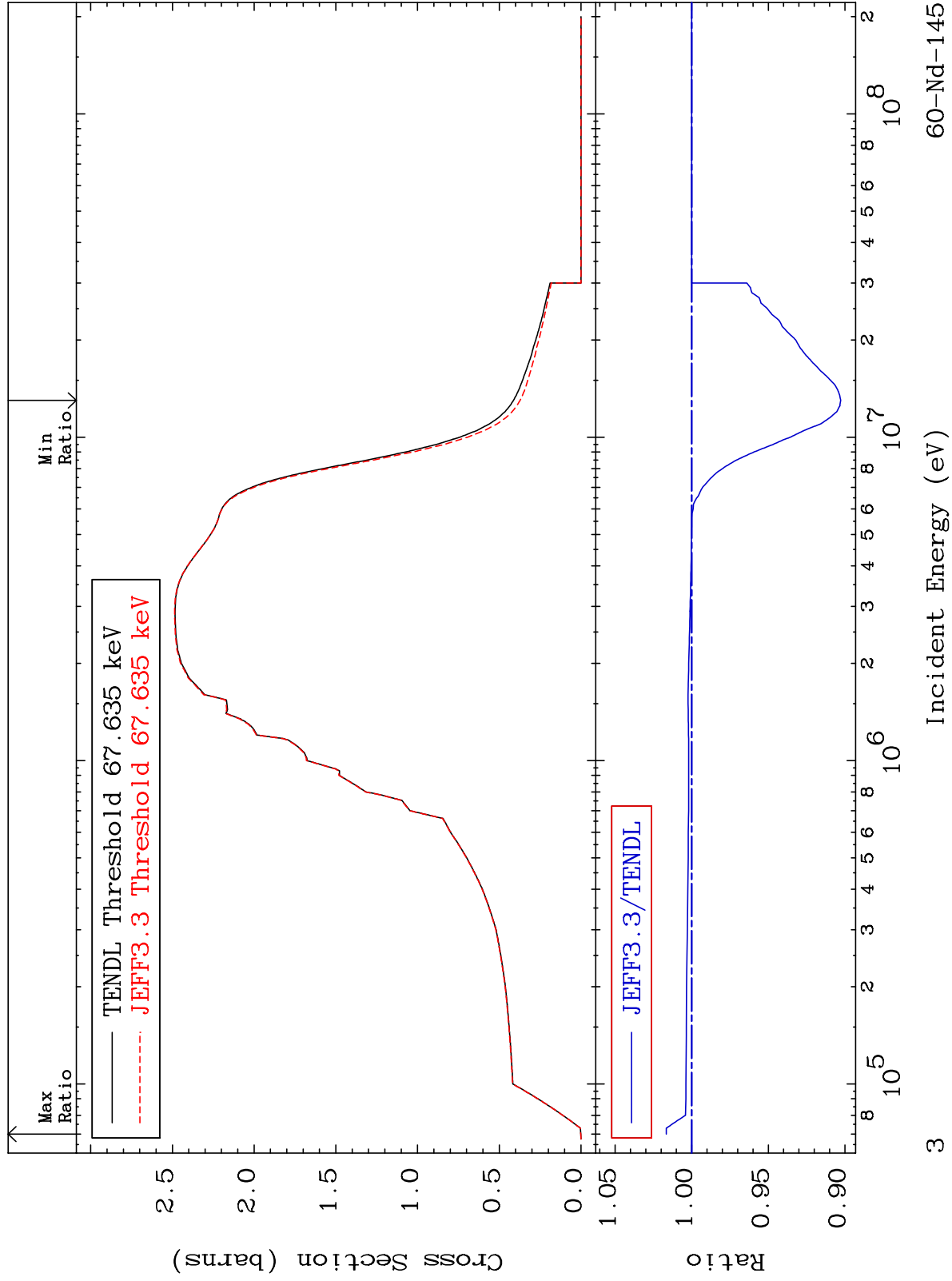


60-Nd-145

MAT 6034

Inelastic
Cross Section

60-Nd-145
-9.729 To 1.657 %



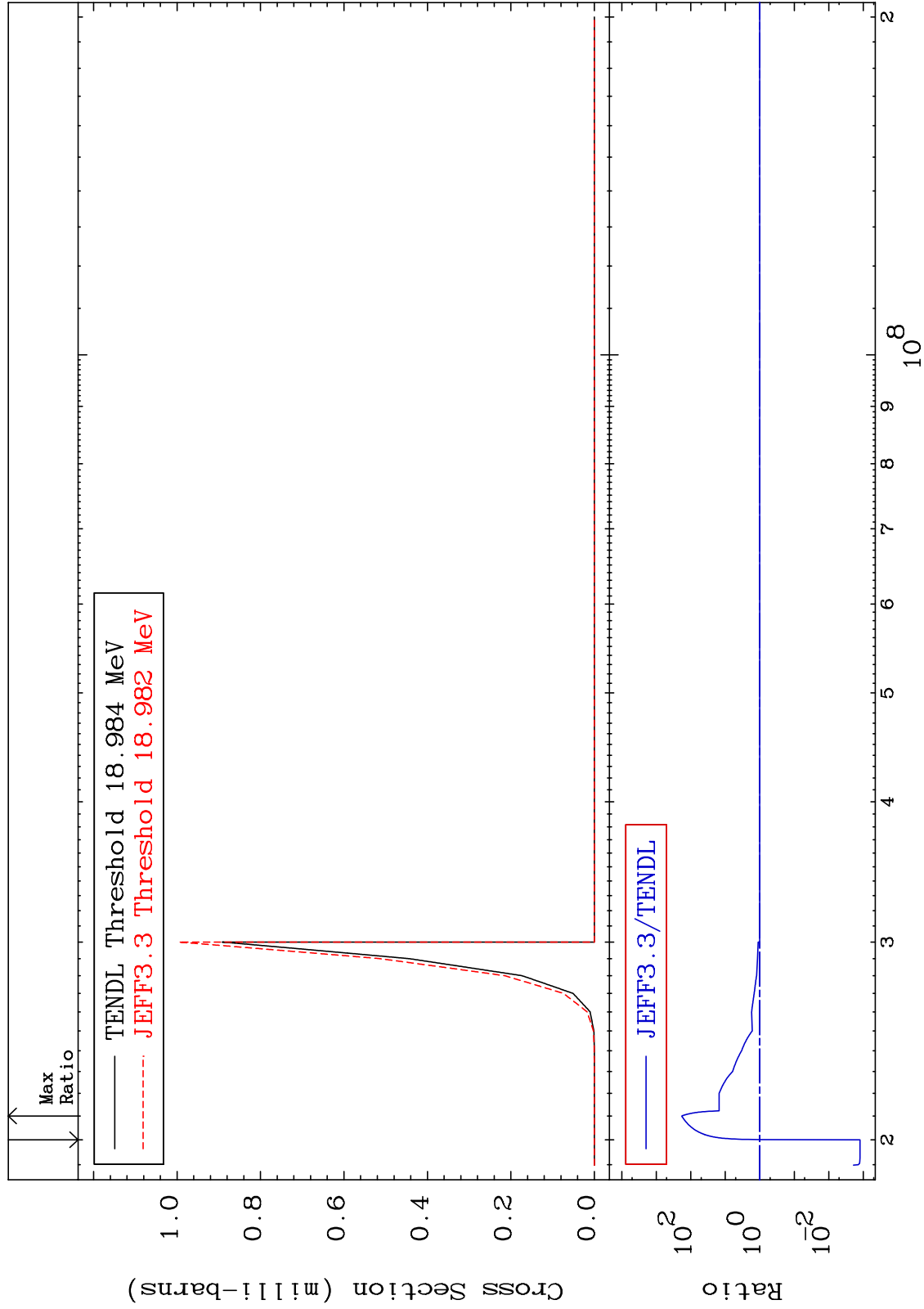
MAT 6034

(n,2n) d

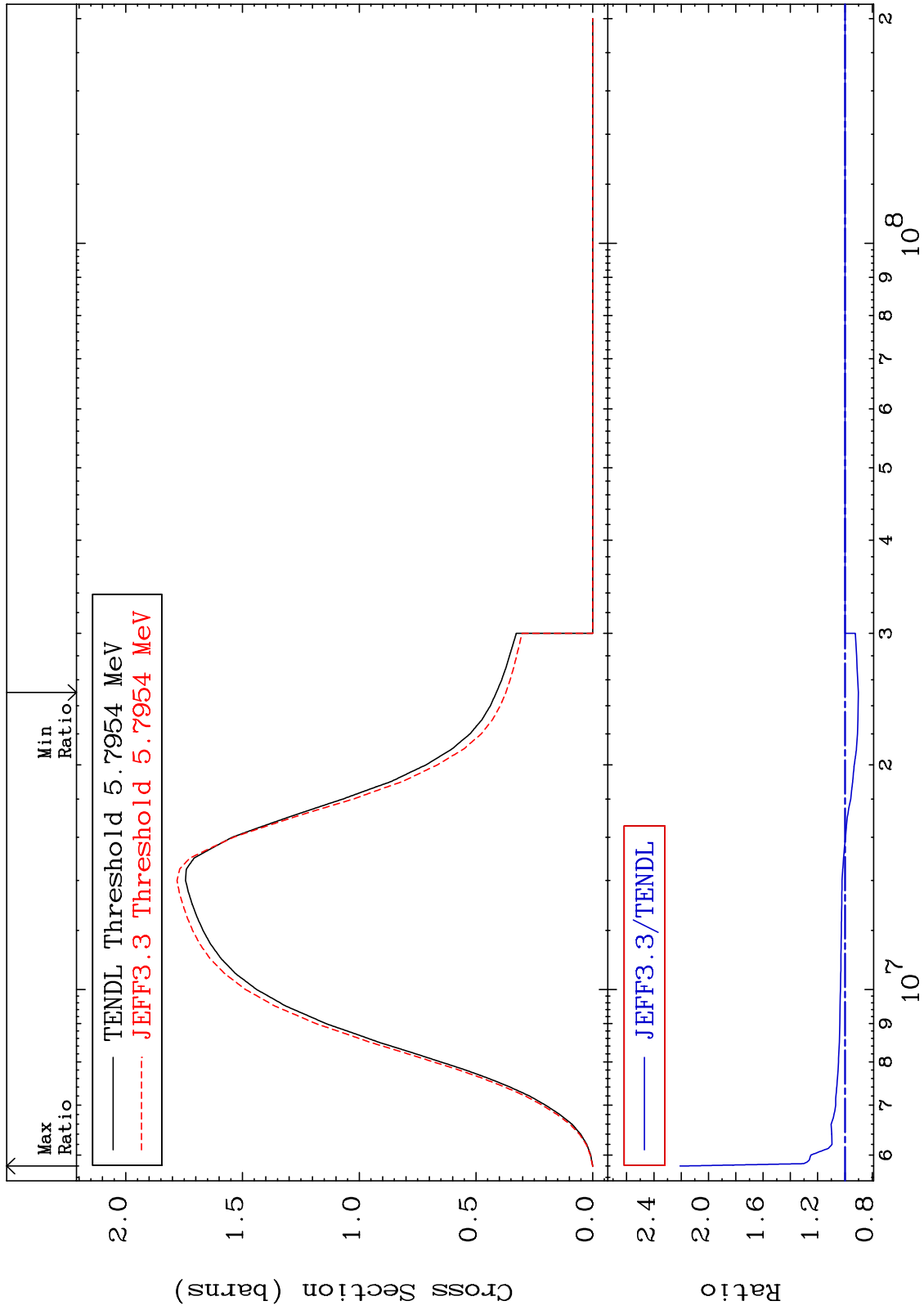
60-Nd-145

Cross Section

-99.88 To 9999. %

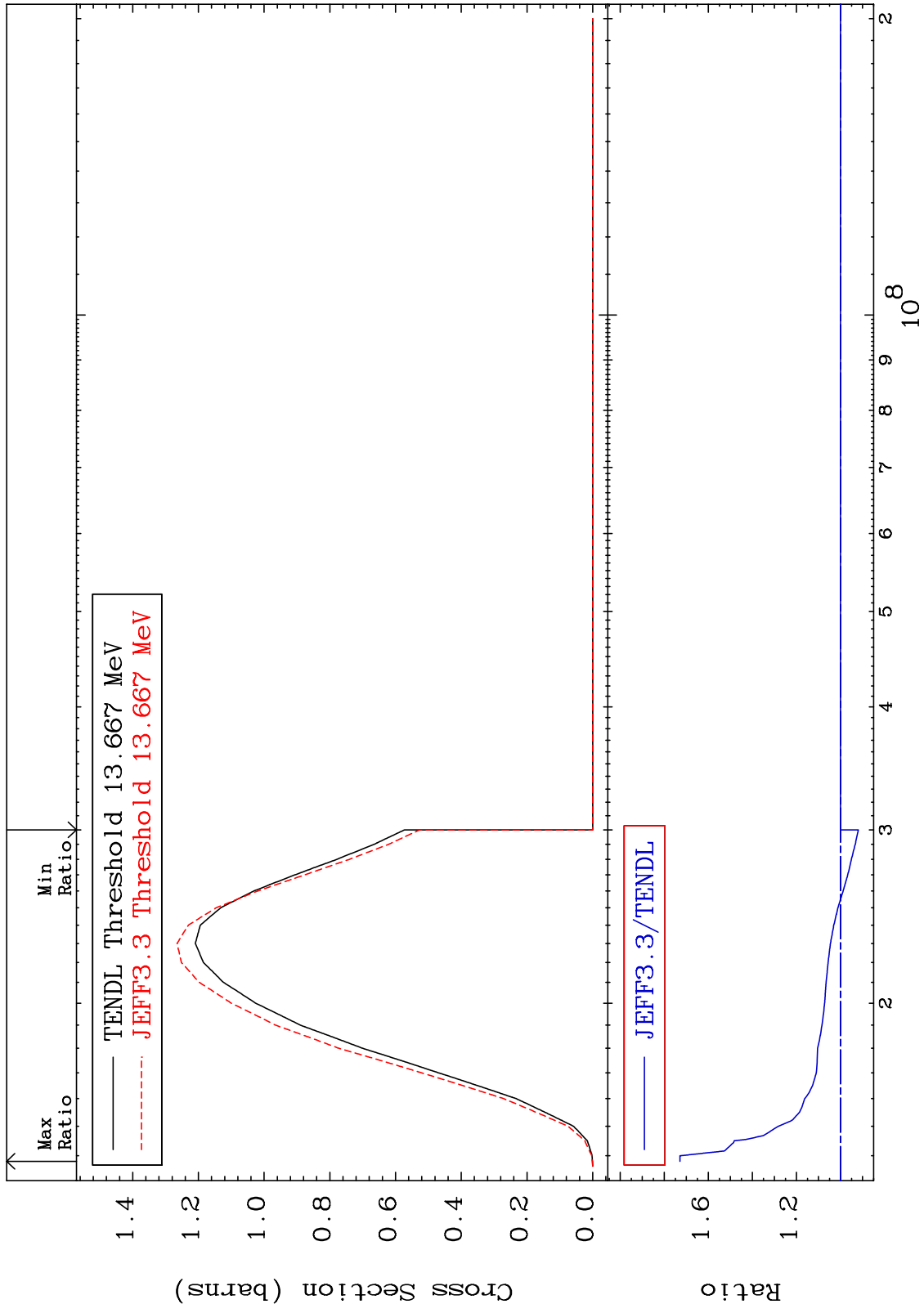


MAT 6034 (n,2n) Cross Section 60-Nd-145 -9.845 To 120.9 %



5 6 7 8 9 10⁷ 2 3 4 5 6 7 8 9 10⁸ 60-Nd-145

MAT 6034 (n,3n) Cross Section 60-Nd-145 -8.109 To 72.86 %

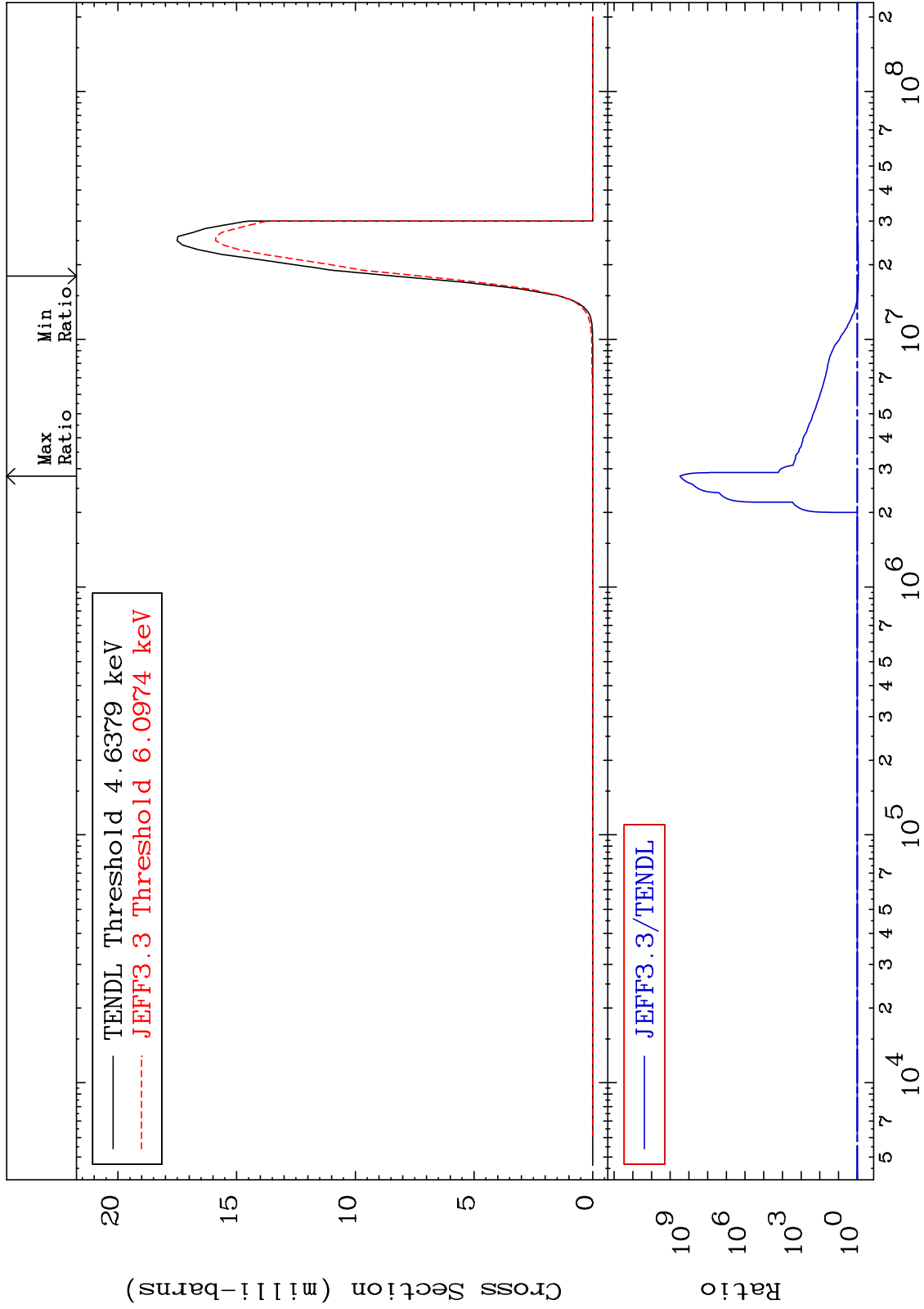


MAT 6034

(n, n') α

60-Nd-145

Cross Section -13.48 To 9999. %



60-Nd-145

Incident Energy (eV)

7

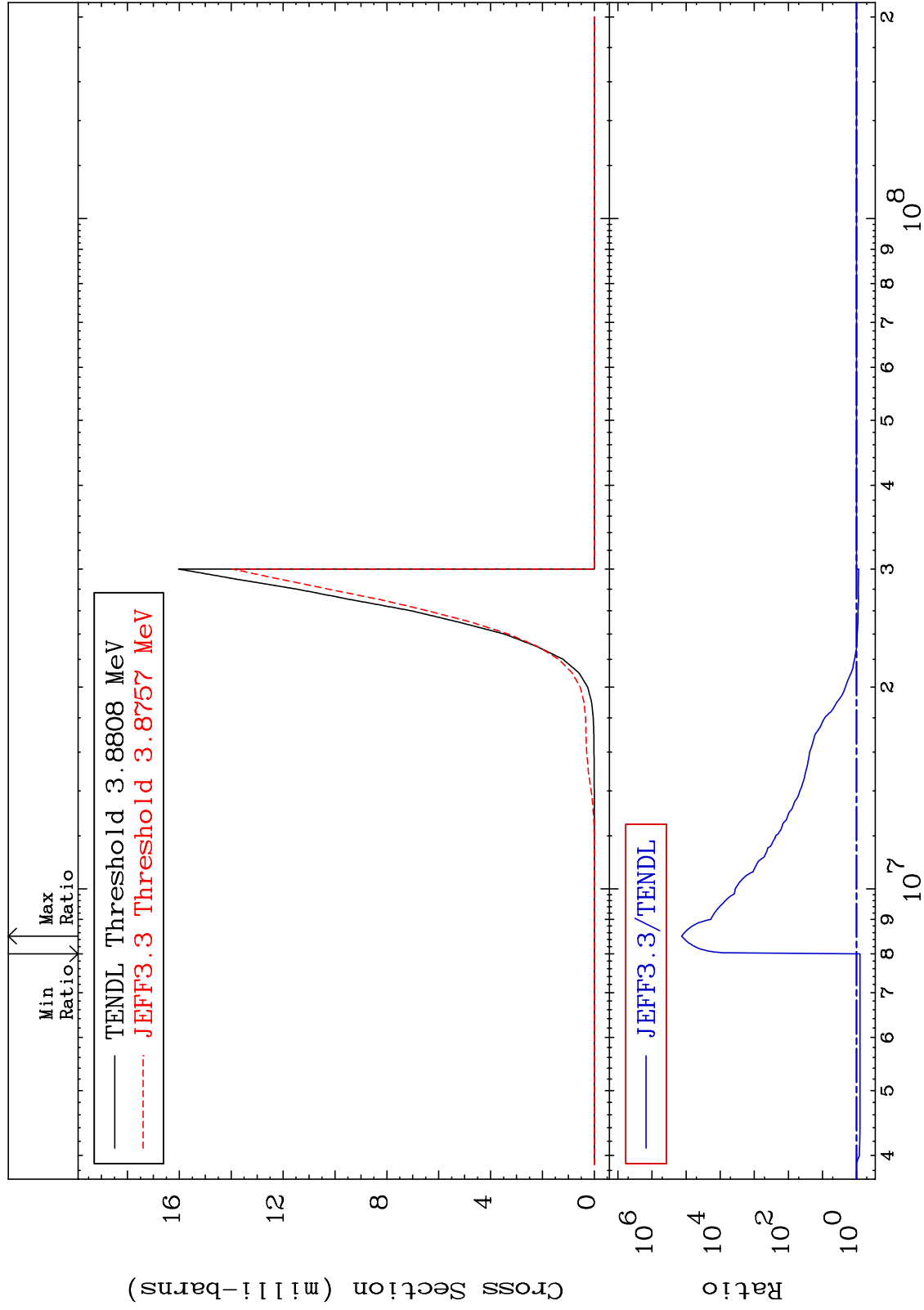
MAT 6034

(n,2n) α

60-Nd-145

Cross Section

-20.84 To 9999. %



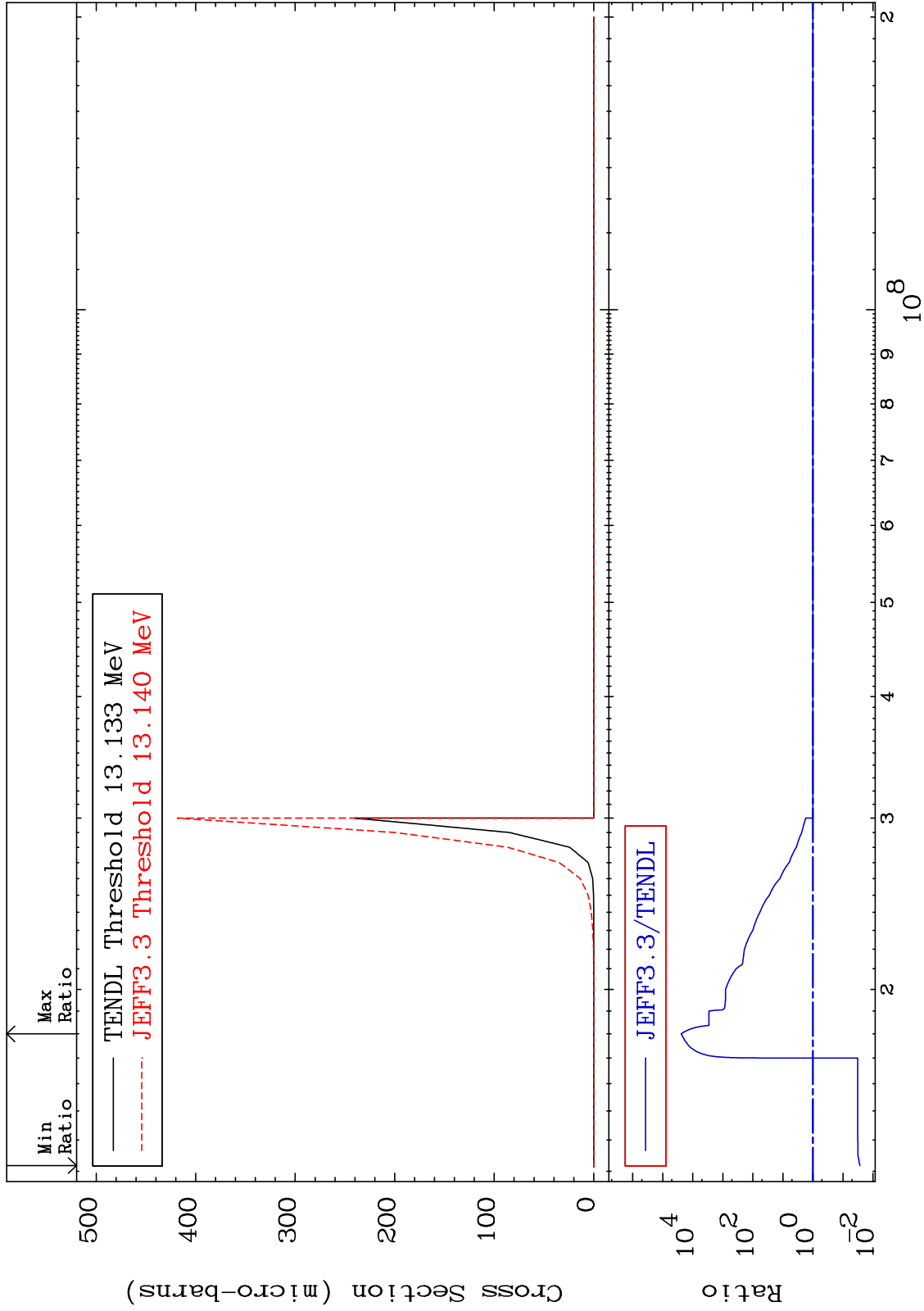
MAT 6034

(n, 3n) α

60-Nd-145

Cross Section

-97.28 To 9999. %



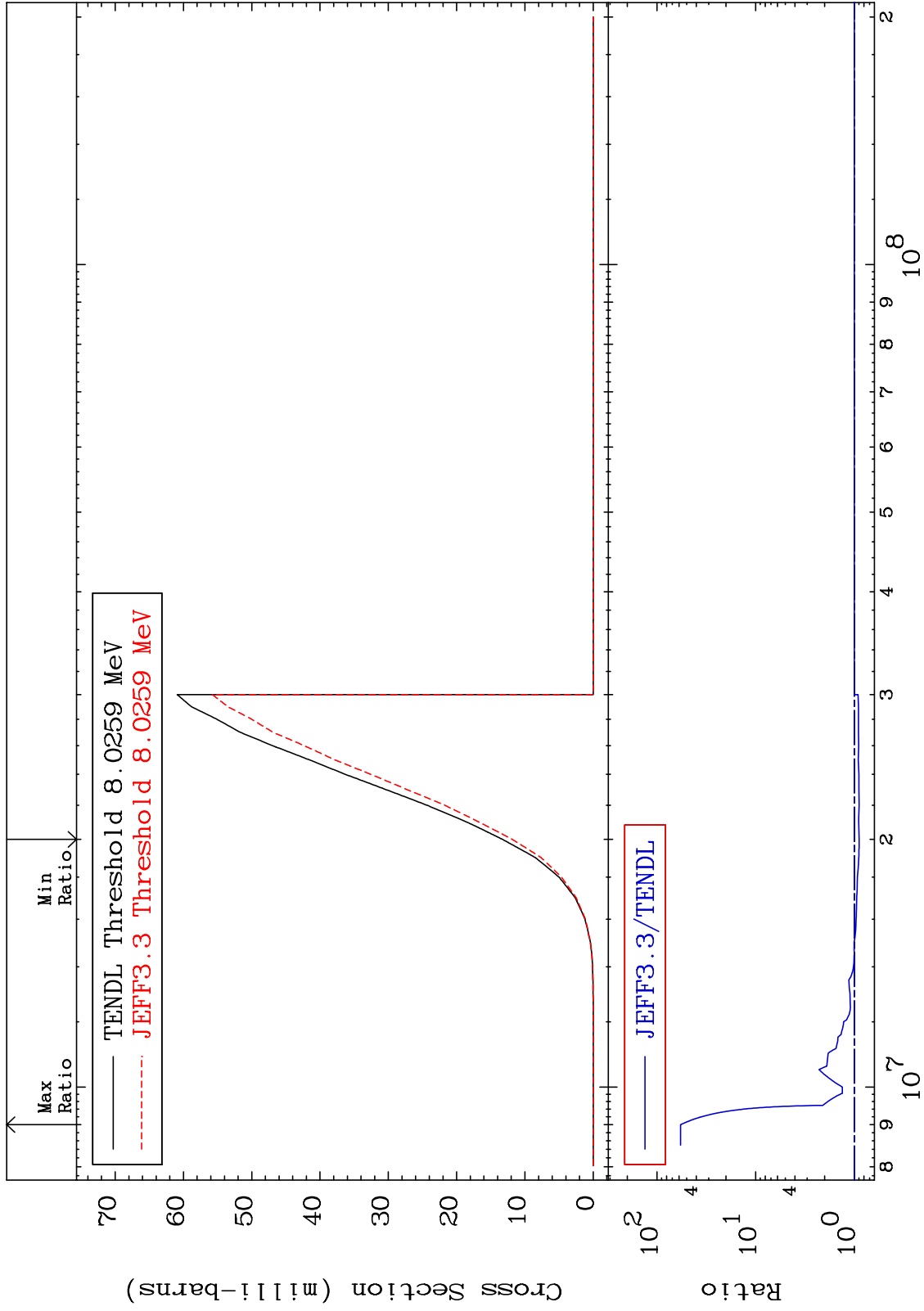
MAT 6034

(n,n') p

60-Nd-145

Cross Section

-10.76 To 5666. %



60-Nd-145

Incident Energy (eV)

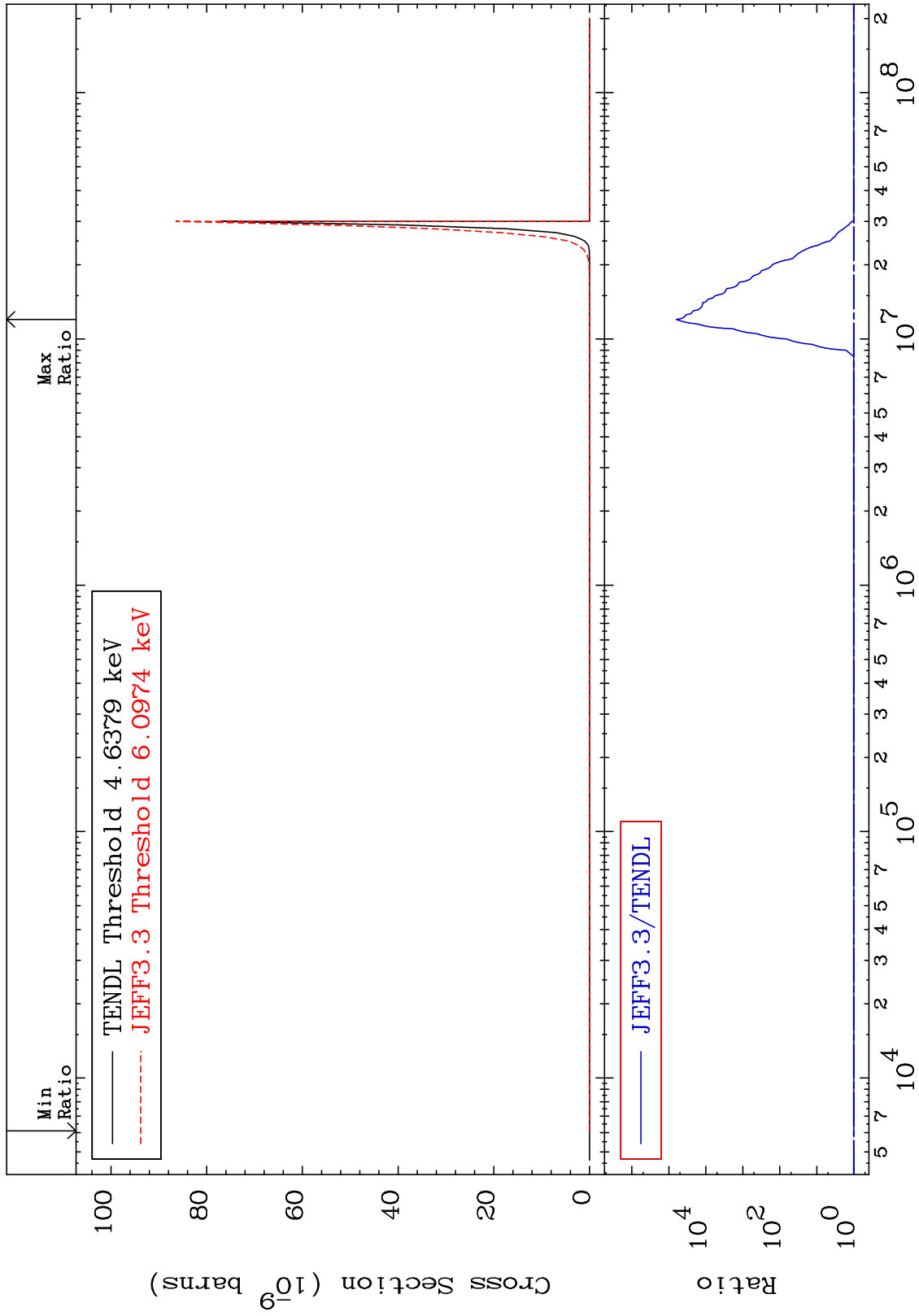
MAT 6034

(n, n') 2 α

60-Nd-145

Cross Section

0.000 To 9999. %



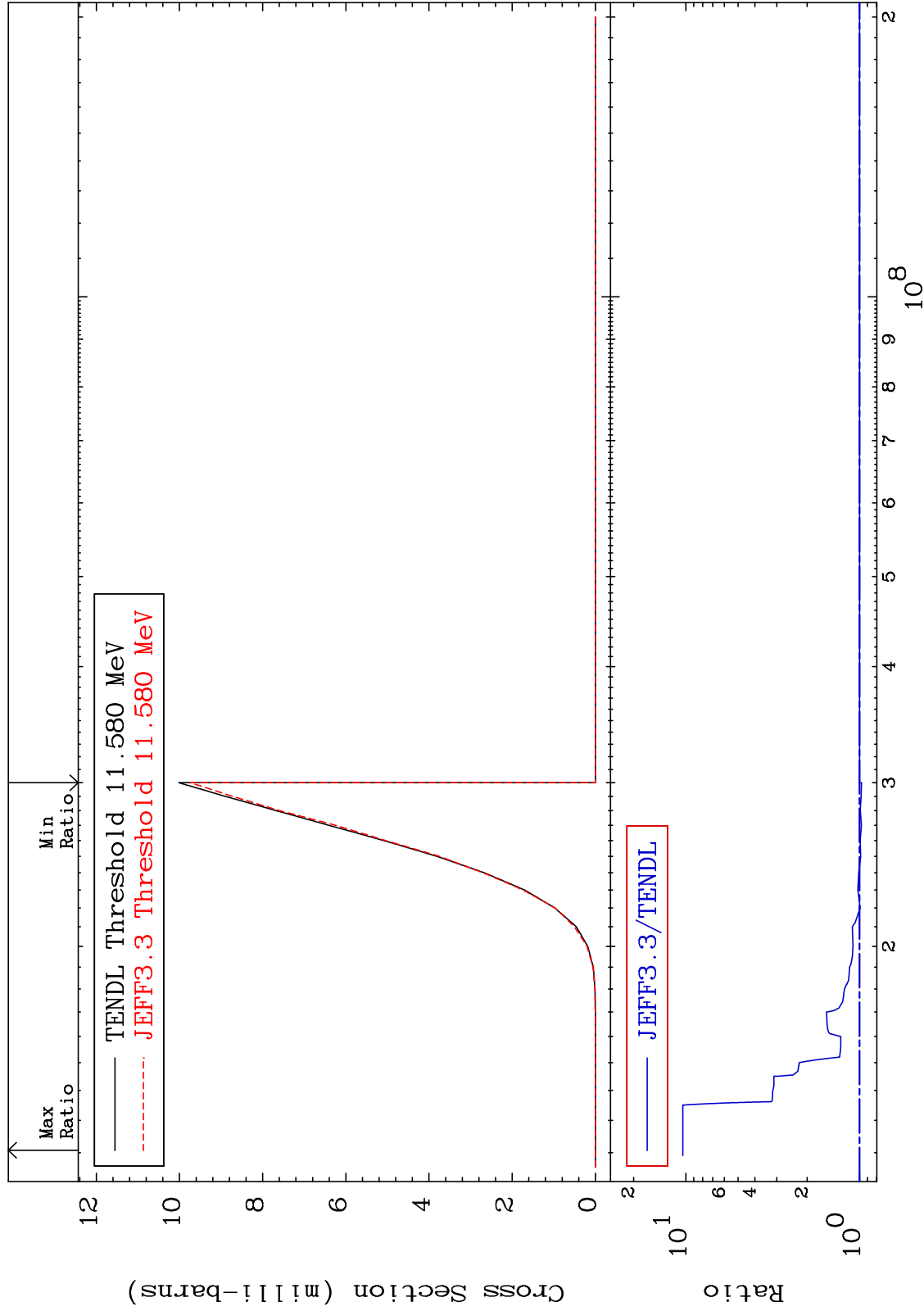
MAT 6034

(n,n') d

60-Nd-145

Cross Section

-2.743 To 940.5 %



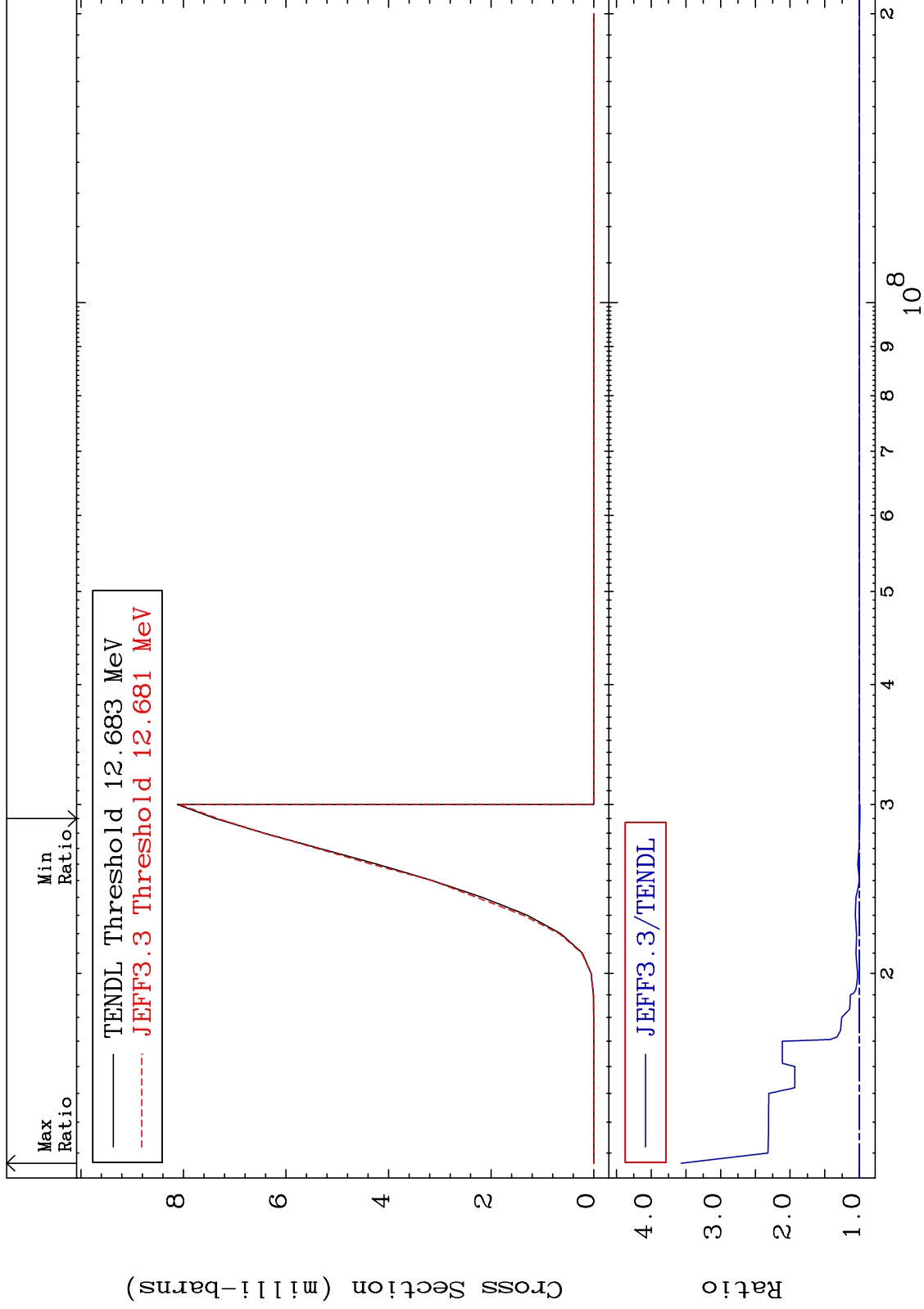
MAT 6034

(n, n') t

60-Nd-145

Cross Section

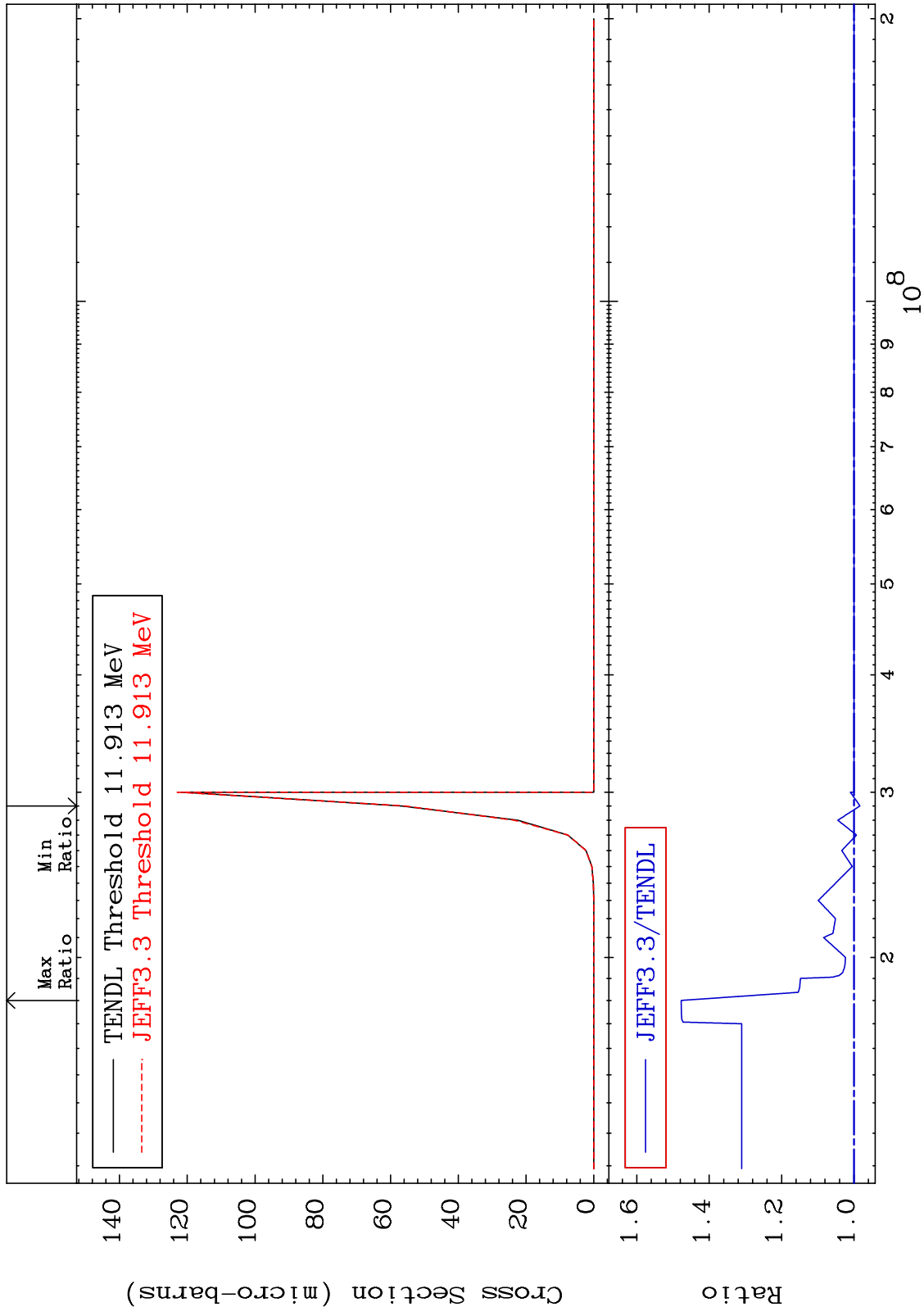
-0.616 To 256.7 %



MAT 6034

(n, n') He-3
Cross Section

60-Nd-145
-1.646 To 47.73 %



MAT 6034

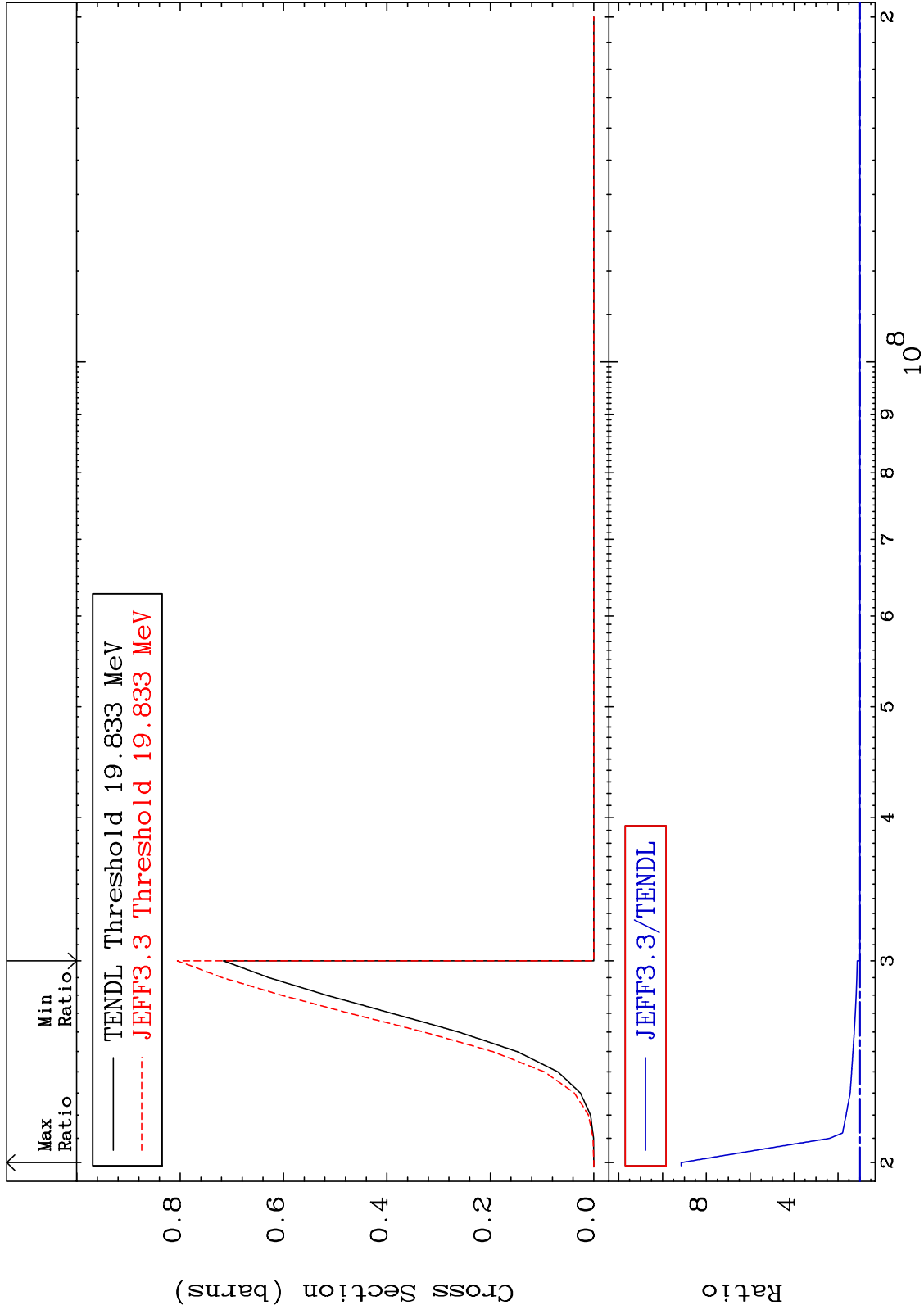
(n, 4n)

60-Nd-145

Cross Section

0.000

To 814.6 %



15

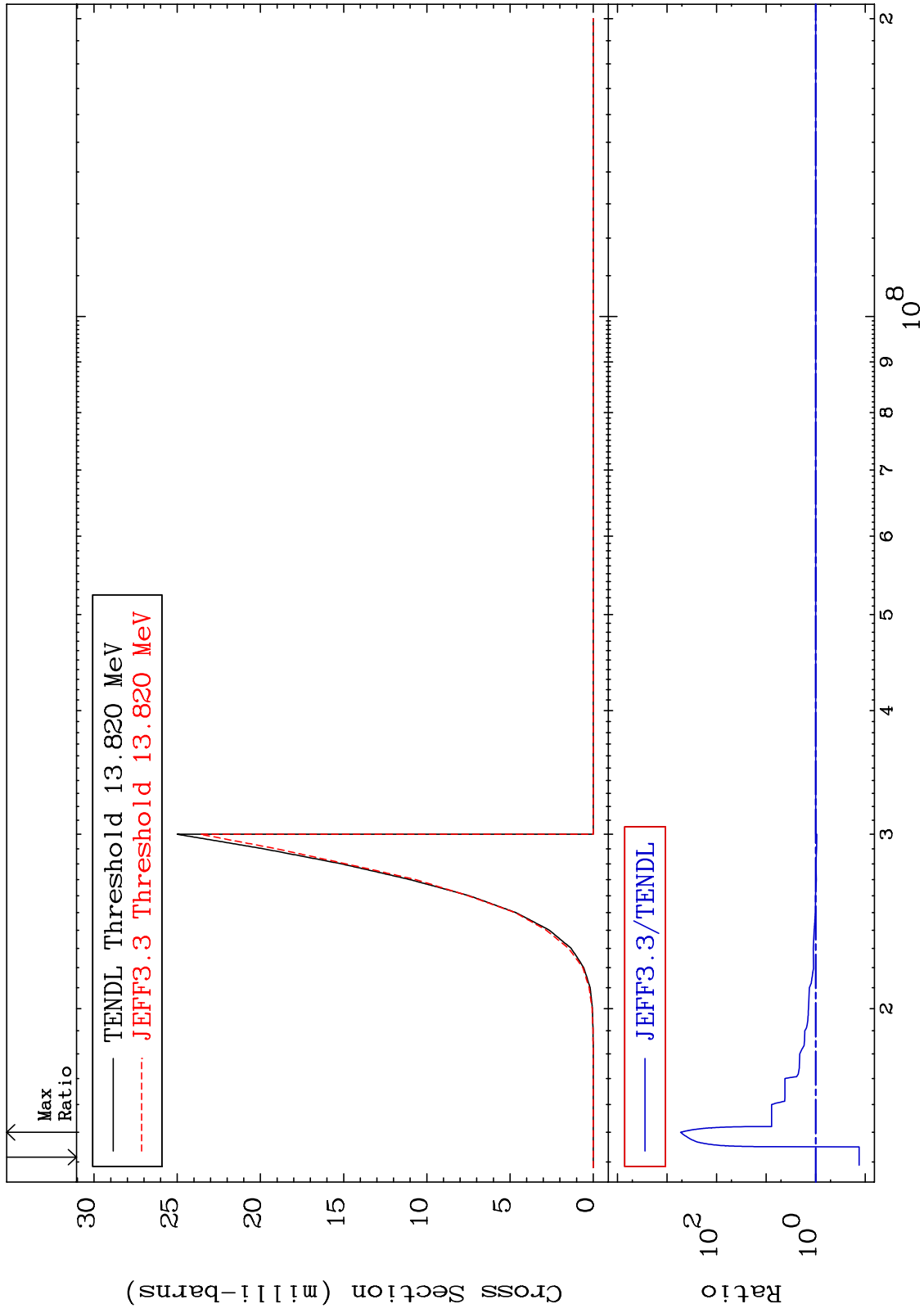
Incident Energy (eV)

60-Nd-145

MAT 6034

(n,2n) p
Cross Section

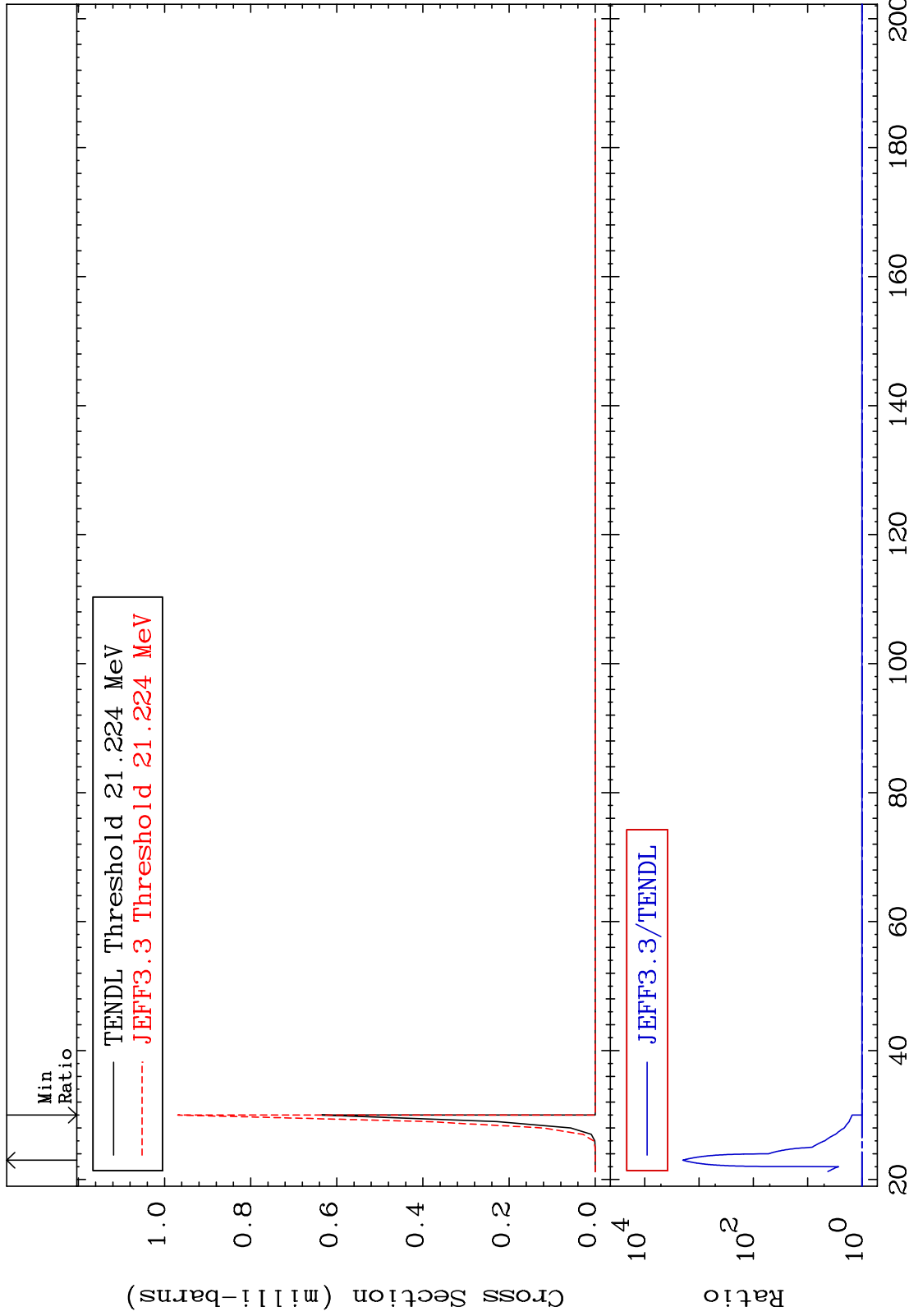
60-Nd-145
-86.80 To 9999. %



MAT 6034

(n,3n) p
Cross Section

60-Nd-145
0.000 To 9999. %



60-Nd-145

MAT 6034

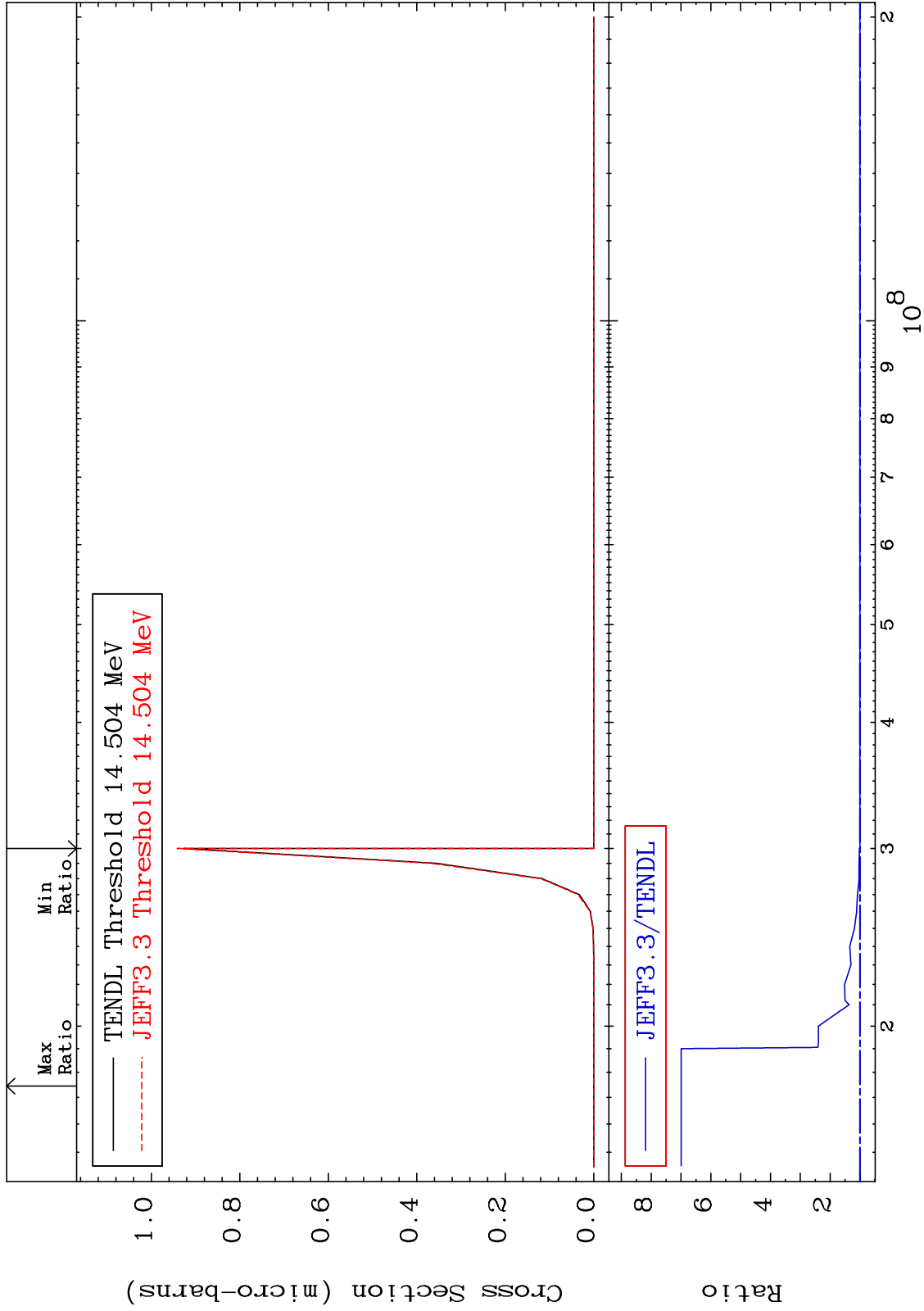
(n,2n) p

60-Nd-145

Cross Section

0.000

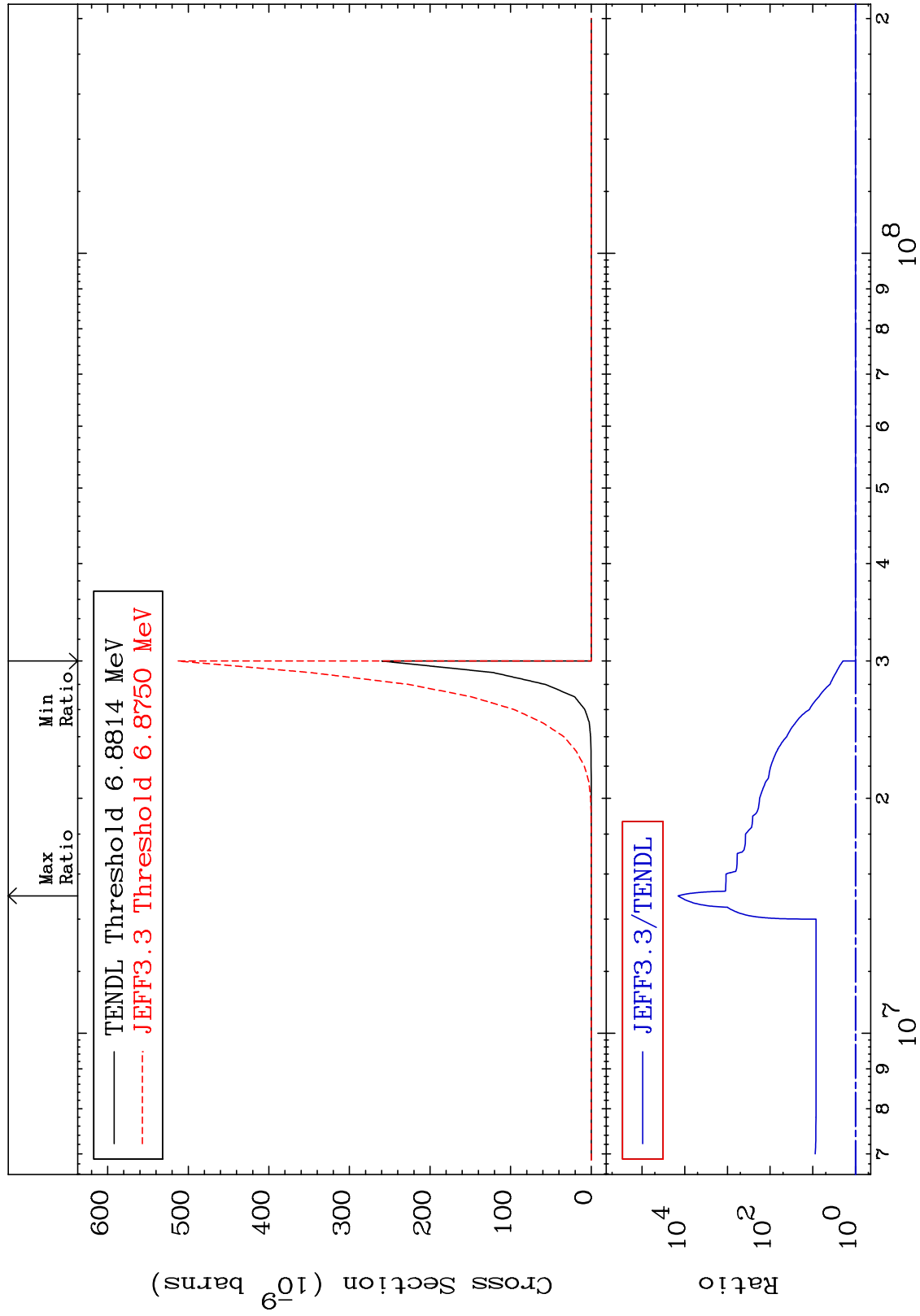
To 599.3 %



MAT 6034

(n,n') p α
Cross Section

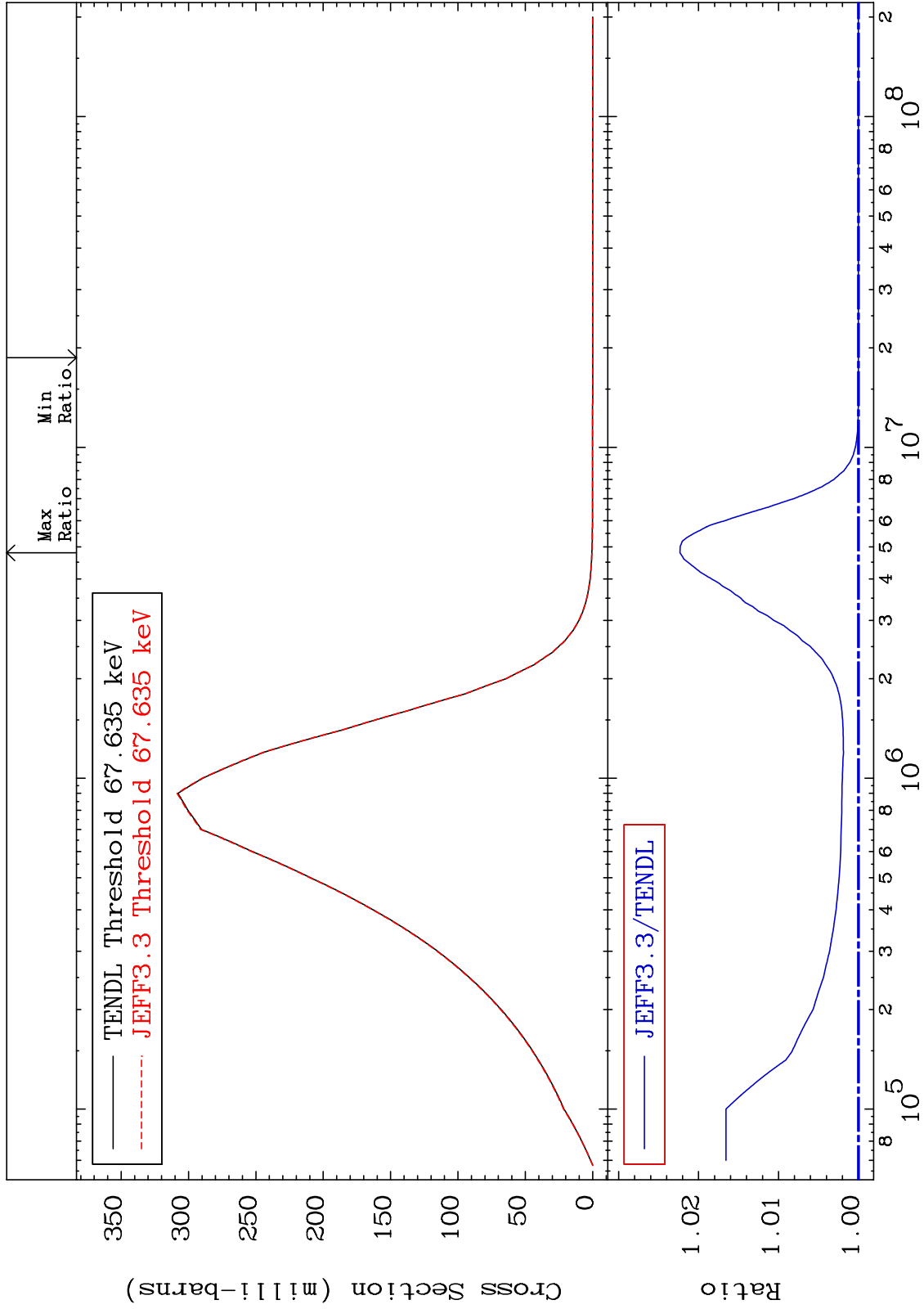
60-Nd-145
To 9999. %
0.000



MAT 6034

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

60-Nd-145
0.000 To 2.232 %



20

Incident Energy (eV)

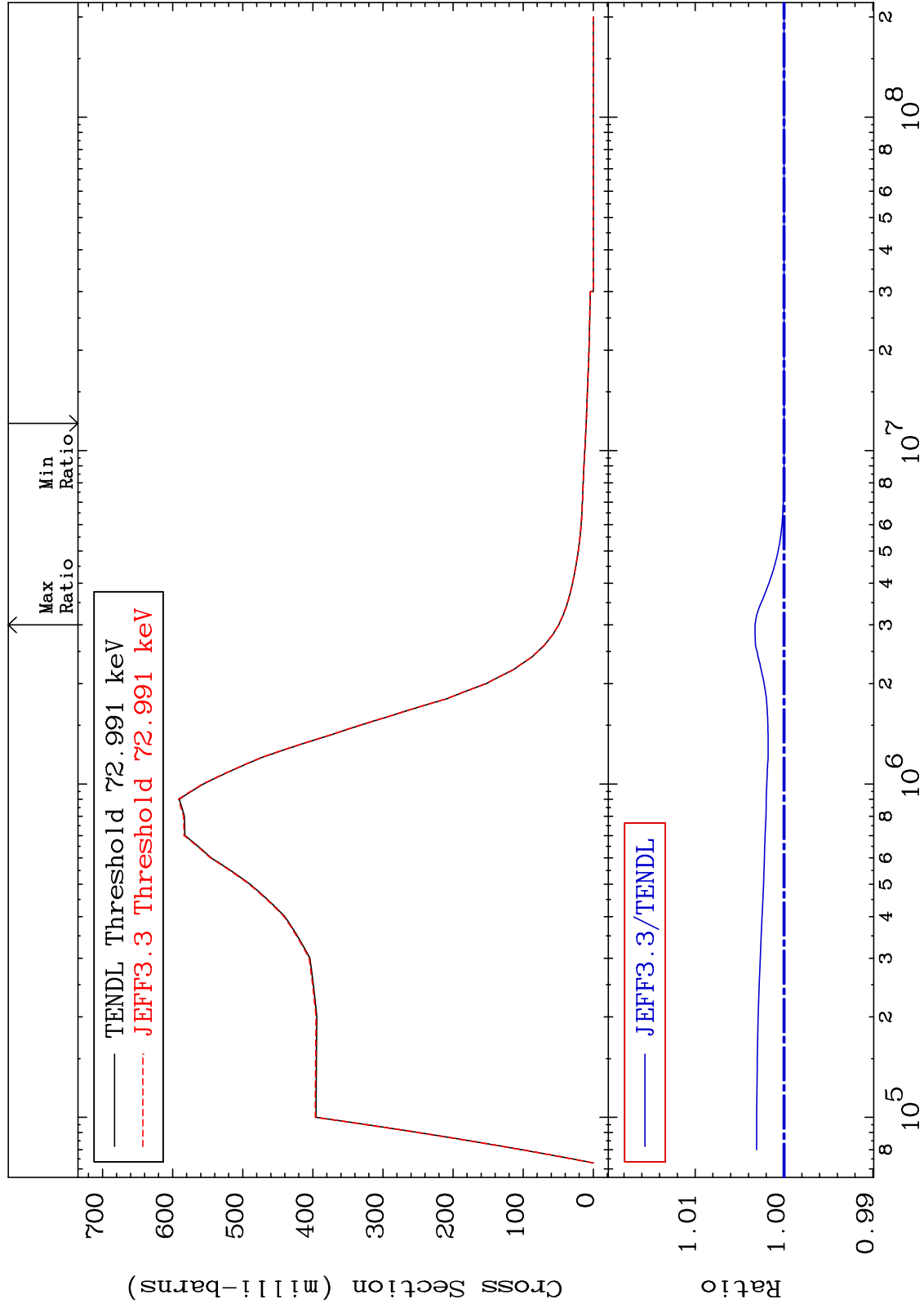
60-Nd-145

MAT 6034

MT= 52 (n, n') Level

60-Nd-145

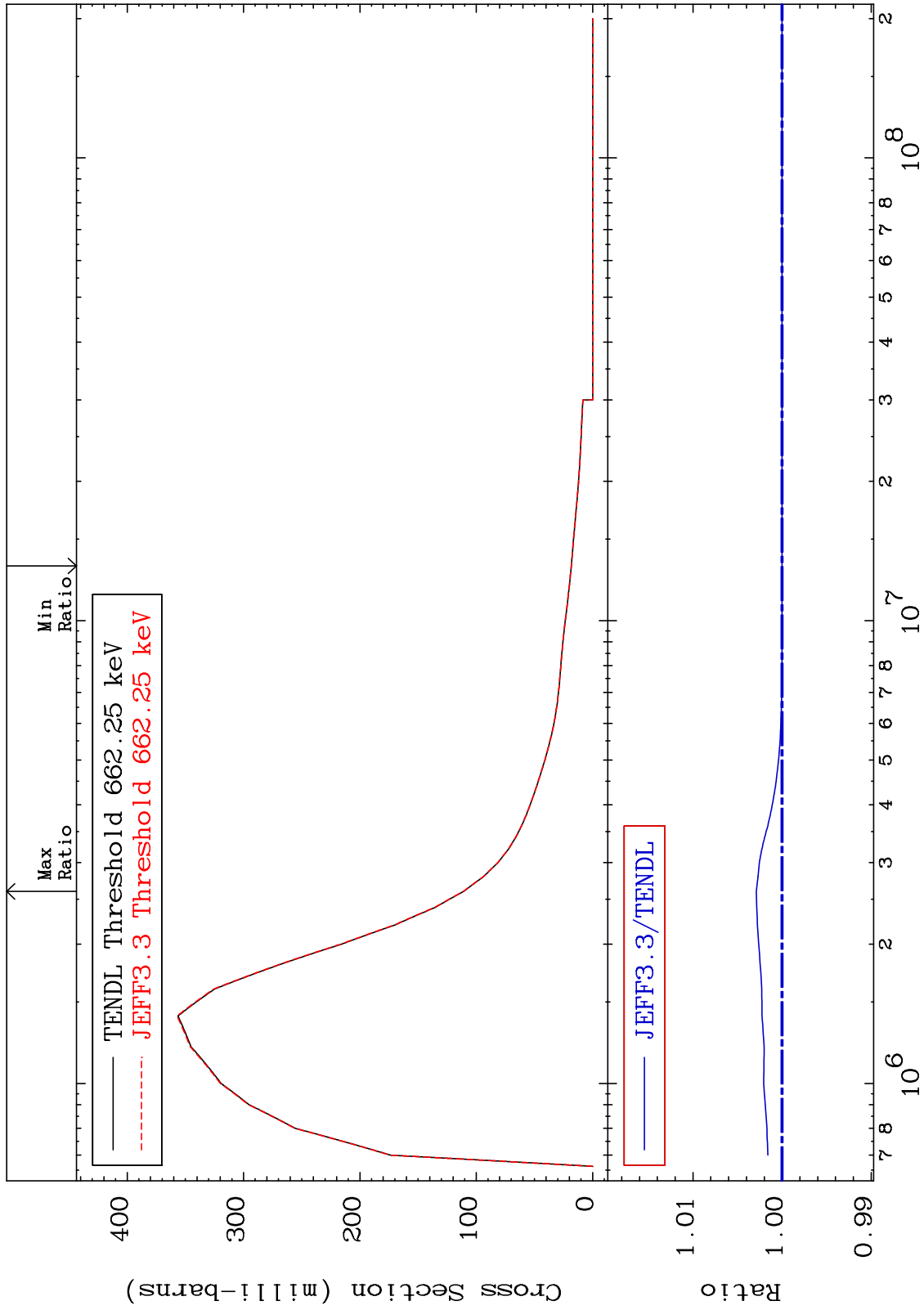
Cross Section 0.000 To 0.326 %



MAT 6034

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

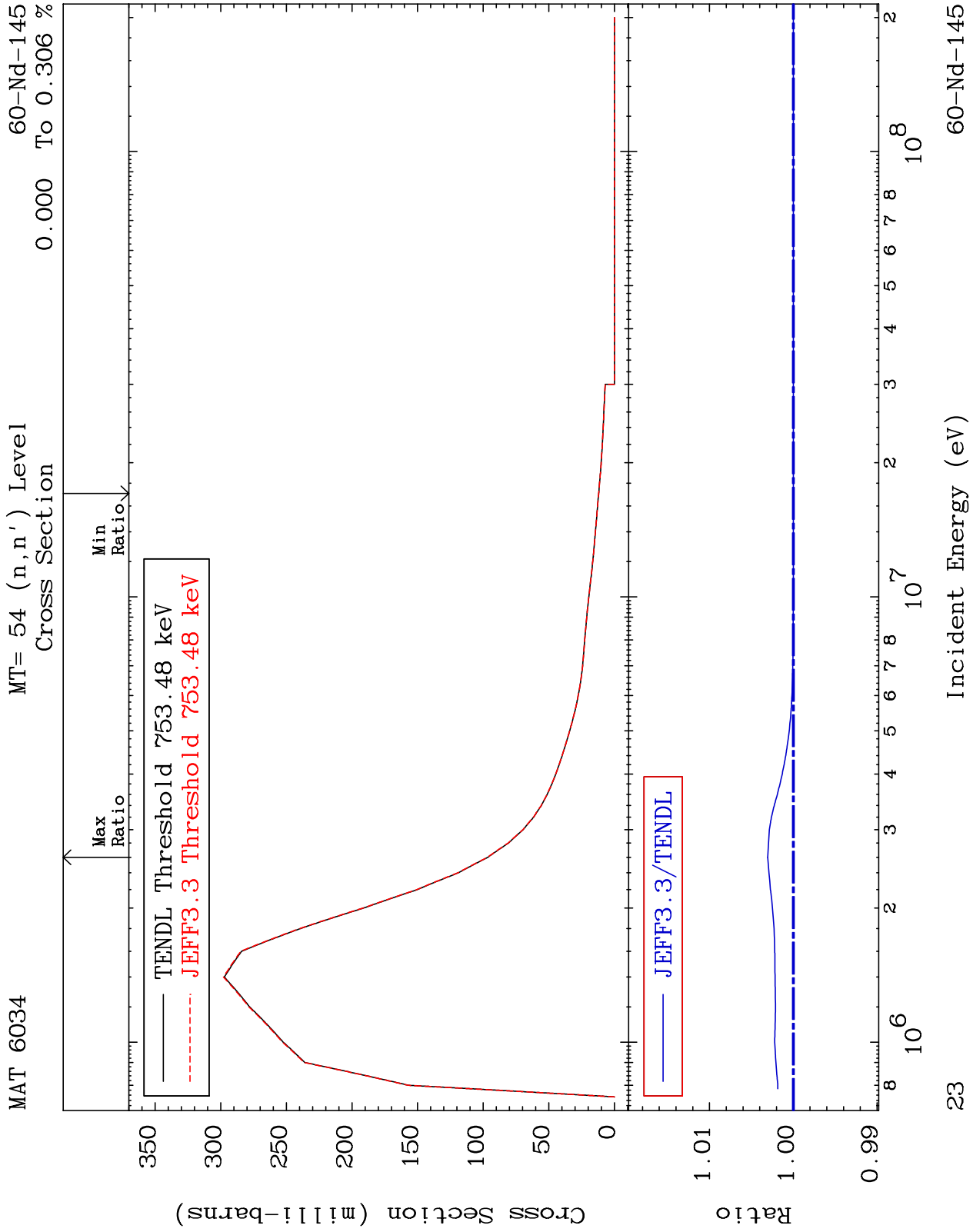
60-Nd-145
0.000 To 0.289 %



22

Incident Energy (eV)

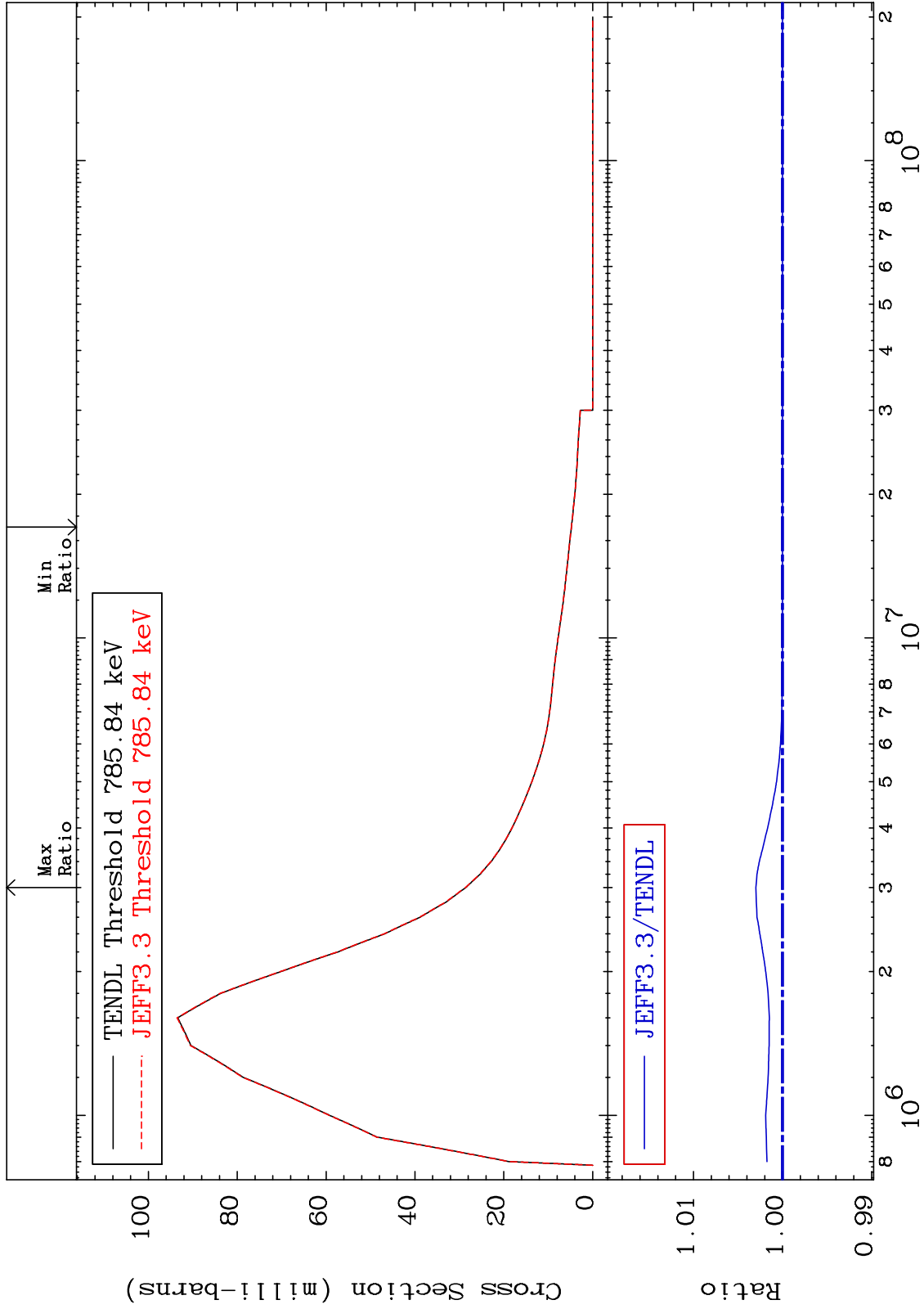
60-Nd-145



MAT 6034

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

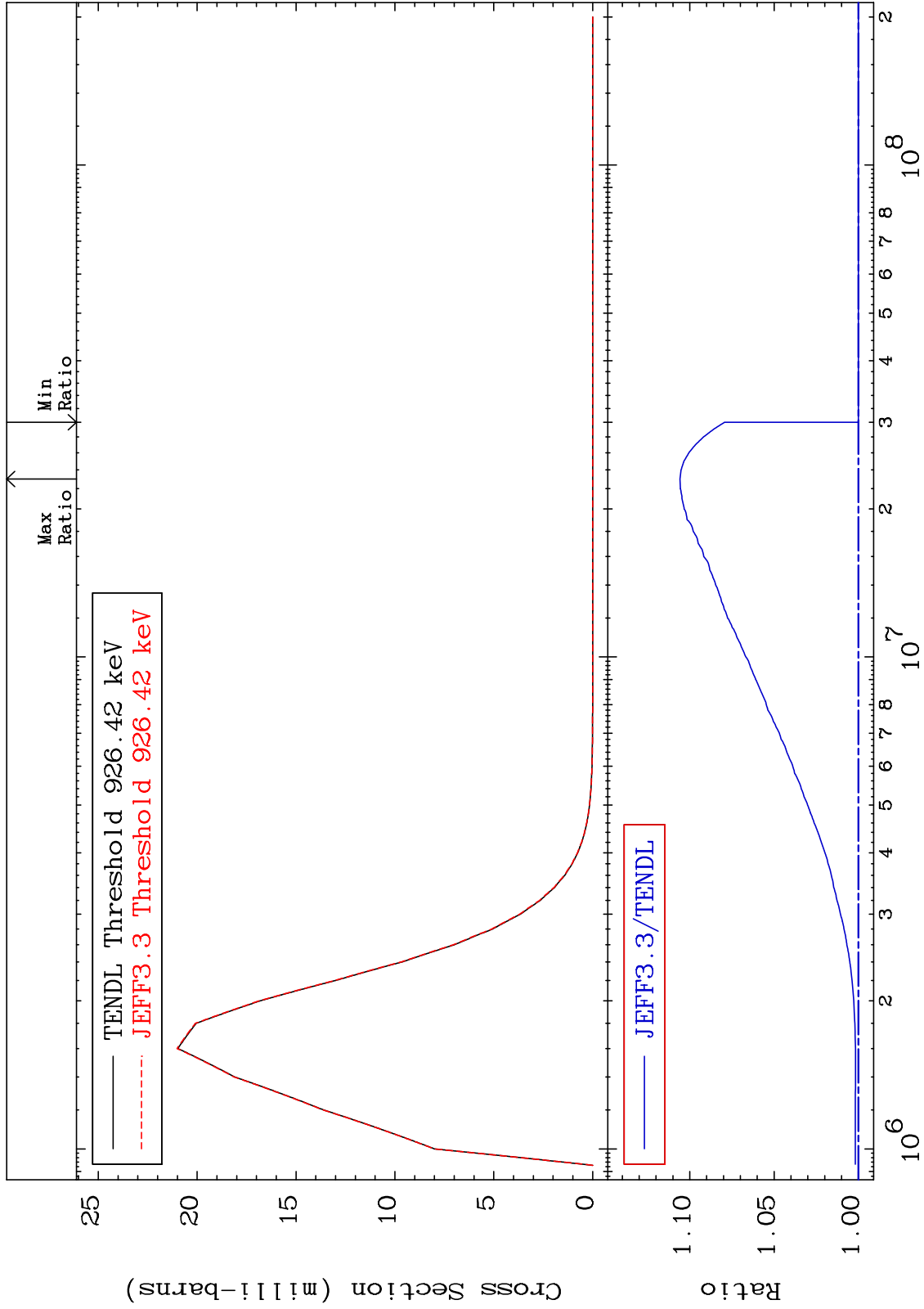
0.000 To 0.299 %
60-Nd-145



MAT 6034

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

60-Nd-145
0.000 To 10.58 %



Incident Energy (eV)

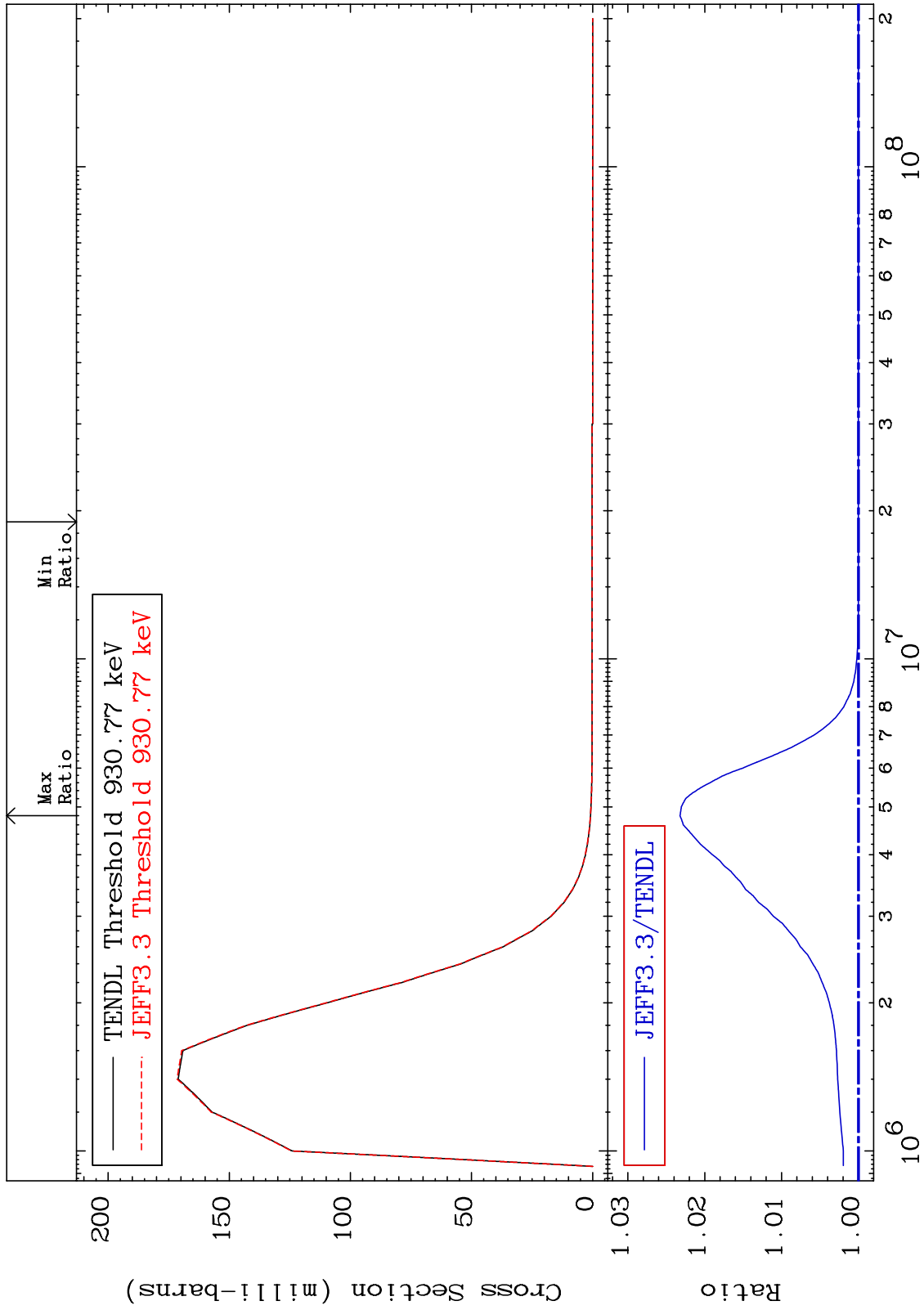
60-Nd-145

25

MAT 6034

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

60-Nd-145
0.000 To 2.321 %



26

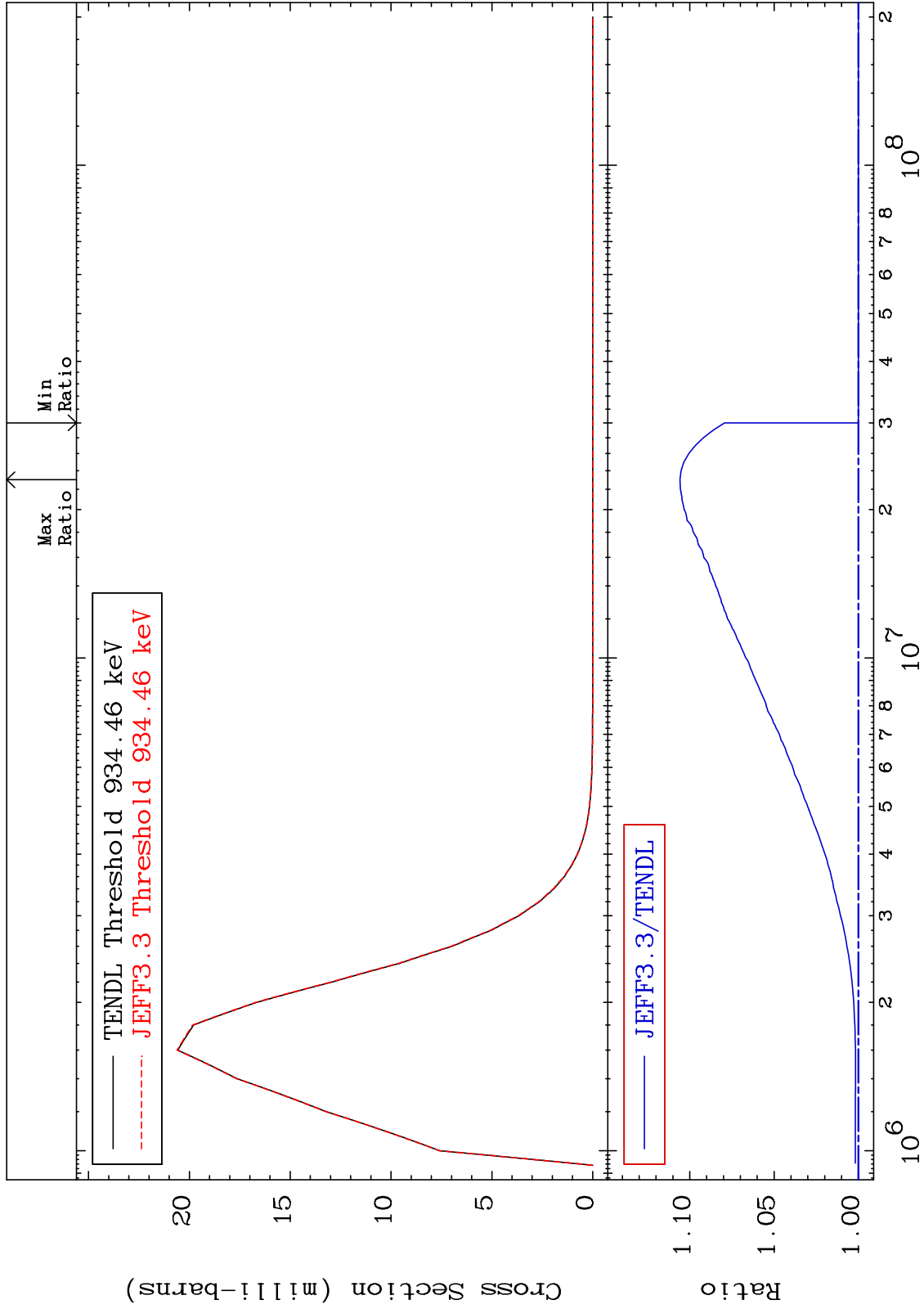
Incident Energy (eV)

60-Nd-145

MAT 6034

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

60-Nd-145
To 10.58 %
0.000



27

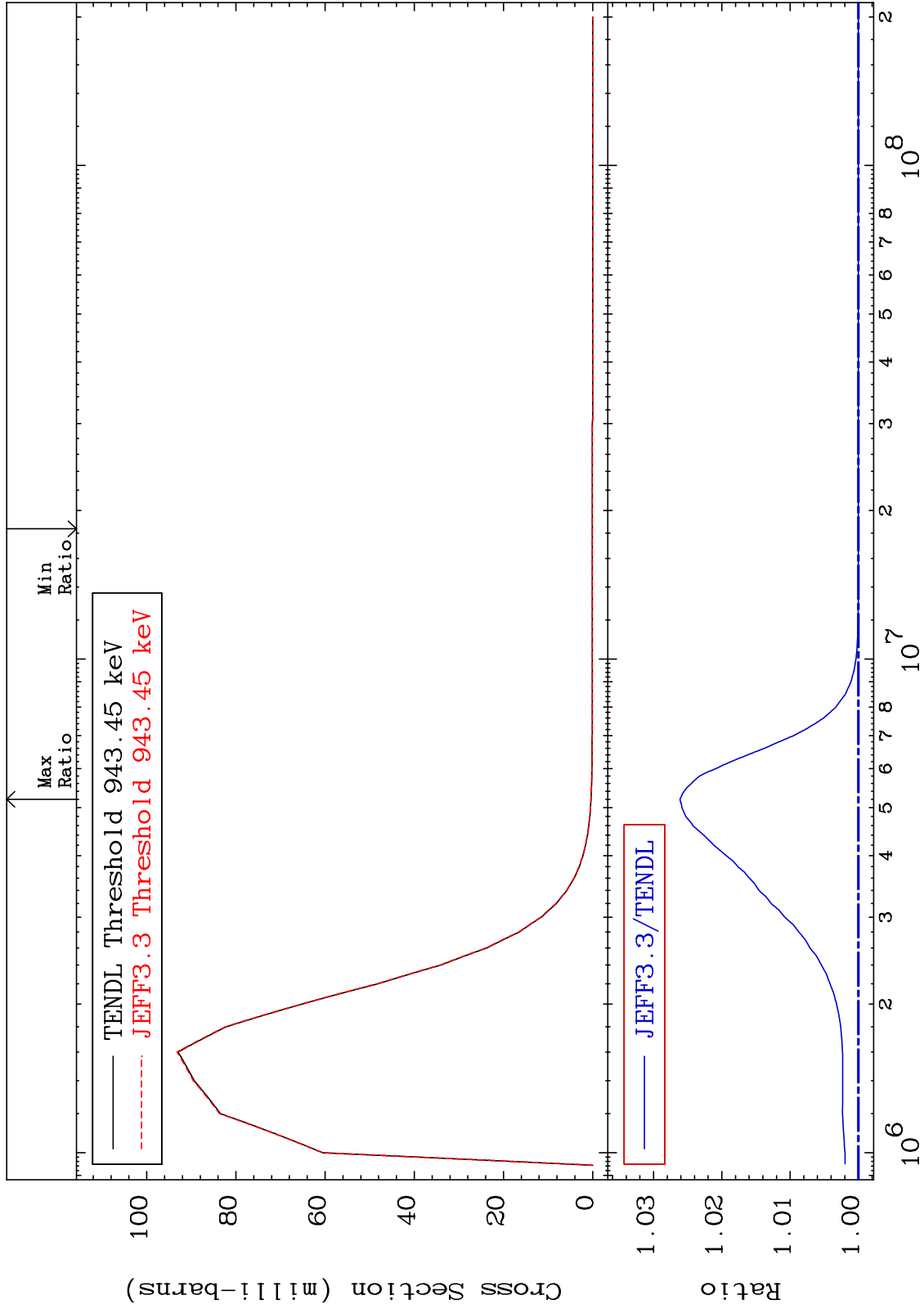
Incident Energy (eV)

60-Nd-145

MAT 6034

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

60-Nd-145
0.000 To 2.613 %



28

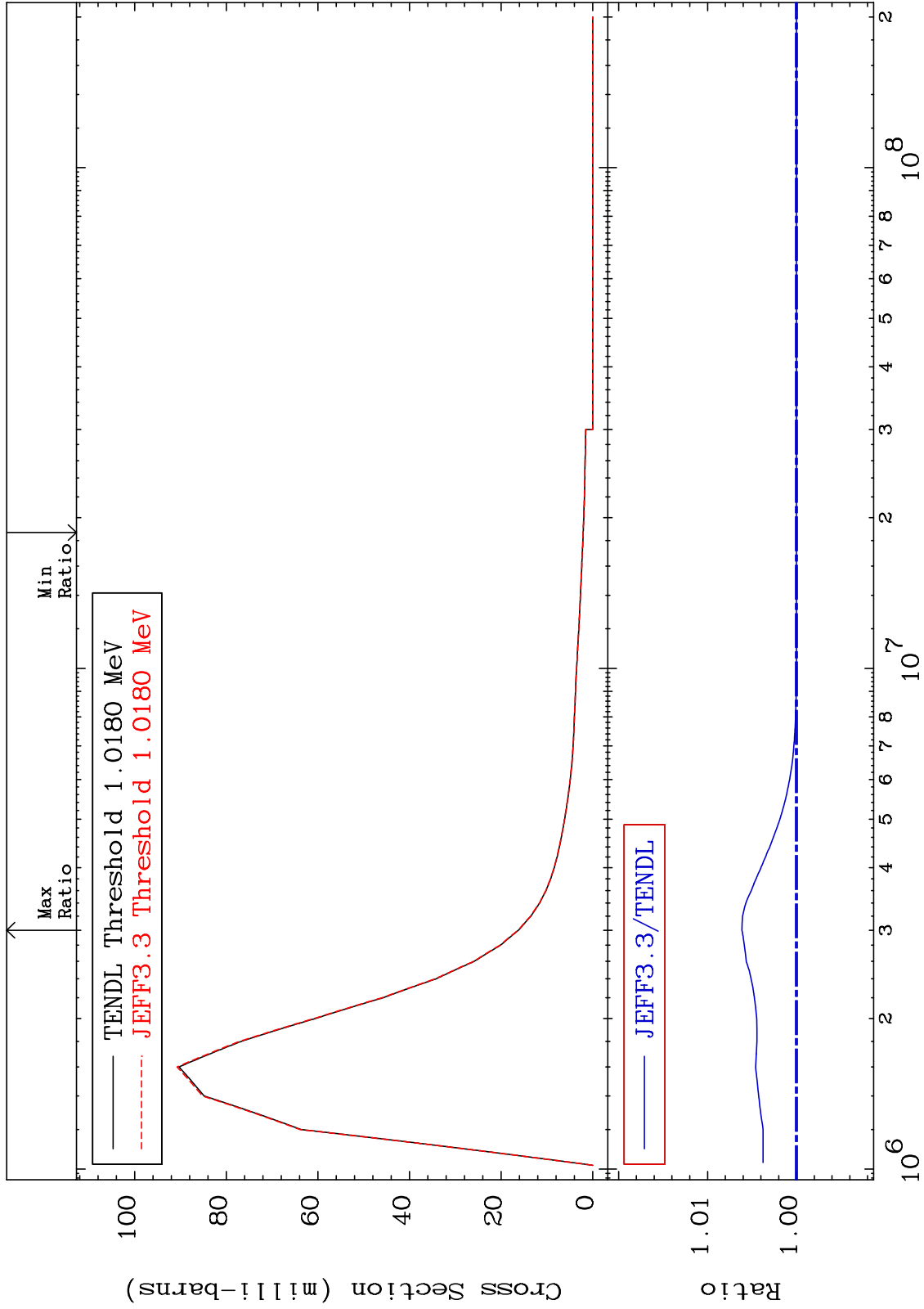
Incident Energy (eV)

60-Nd-145

MAT 6034

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

60-Nd-145
0.000 To 0.613 %



29

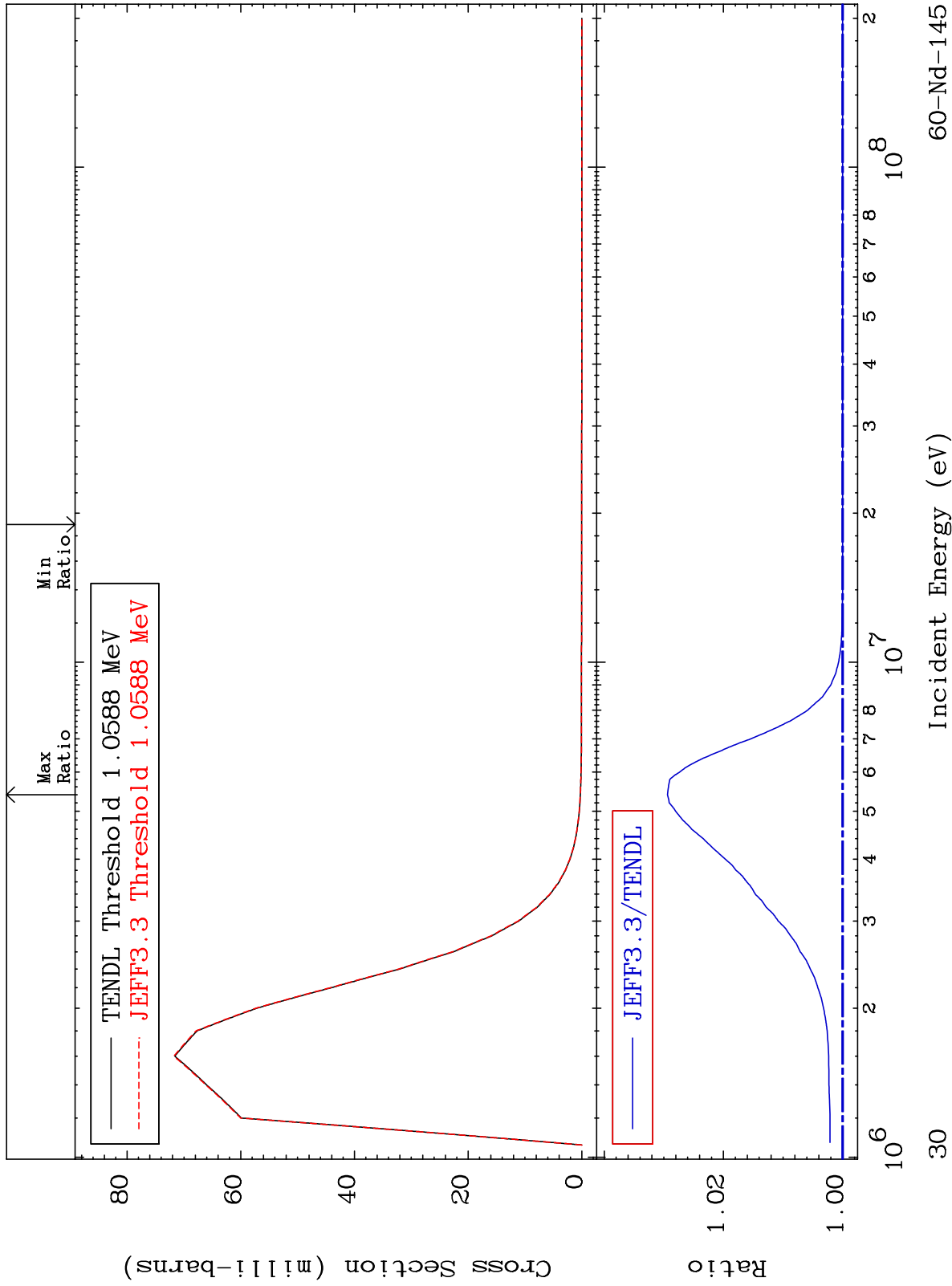
Incident Energy (eV)

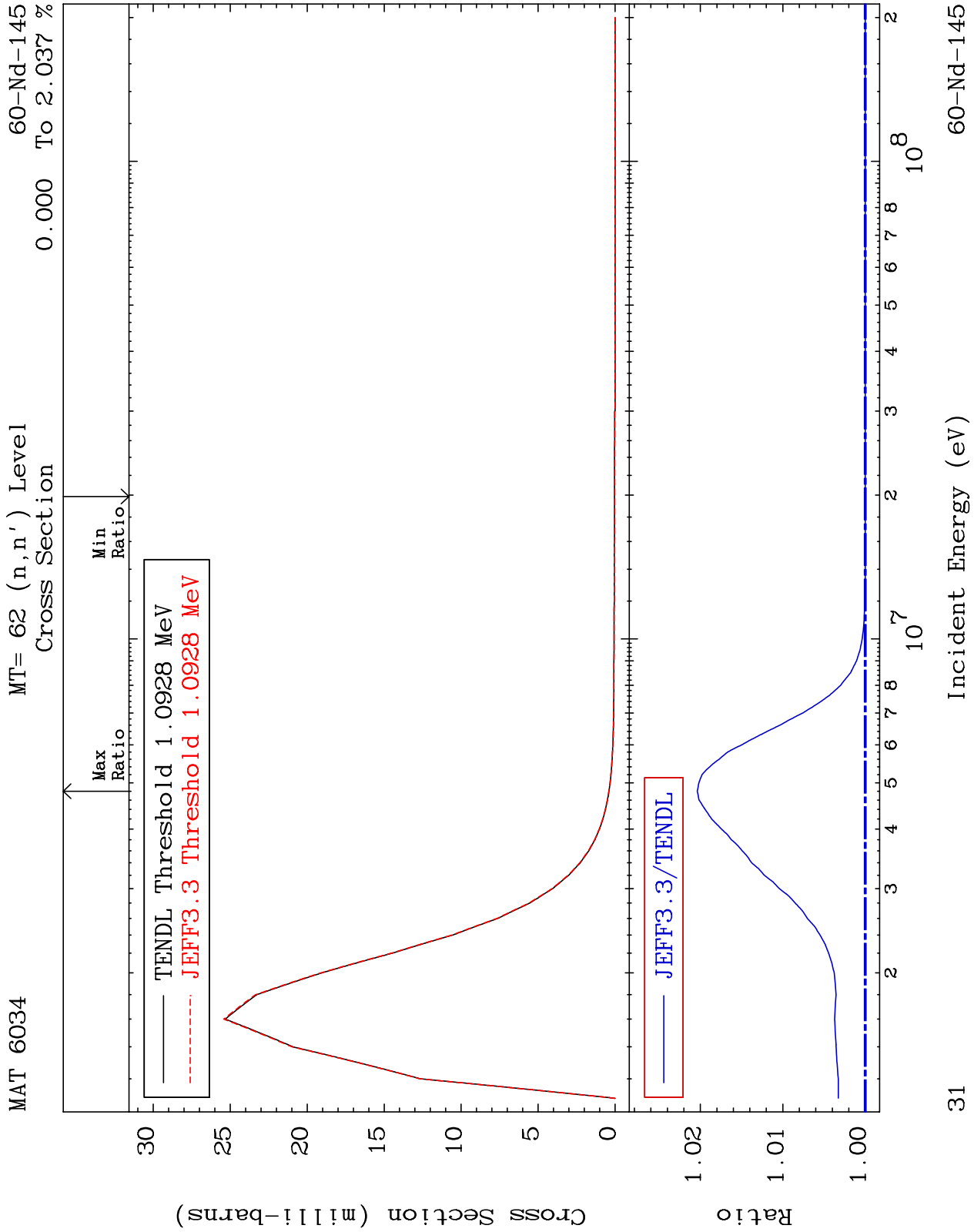
60-Nd-145

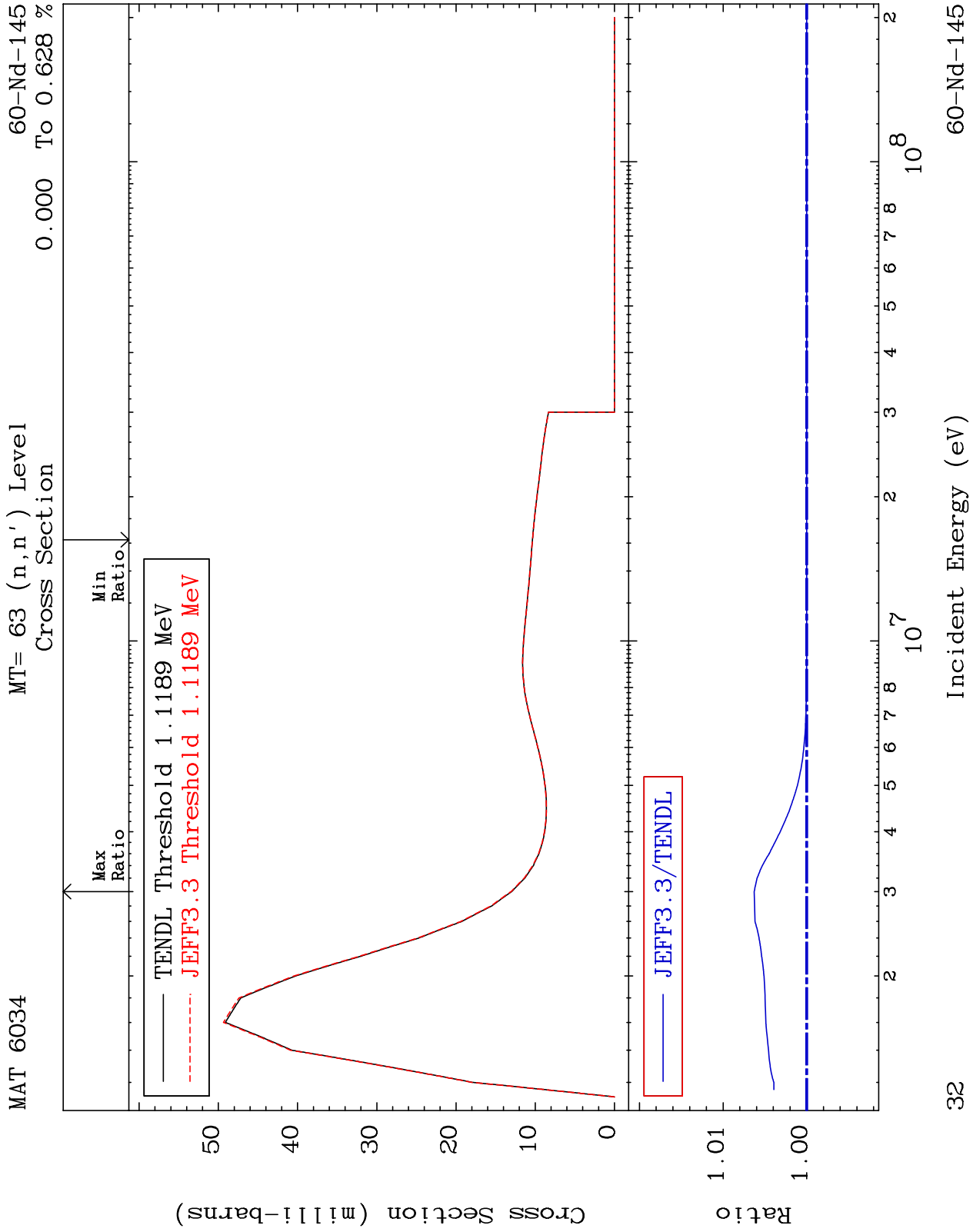
MAT 6034

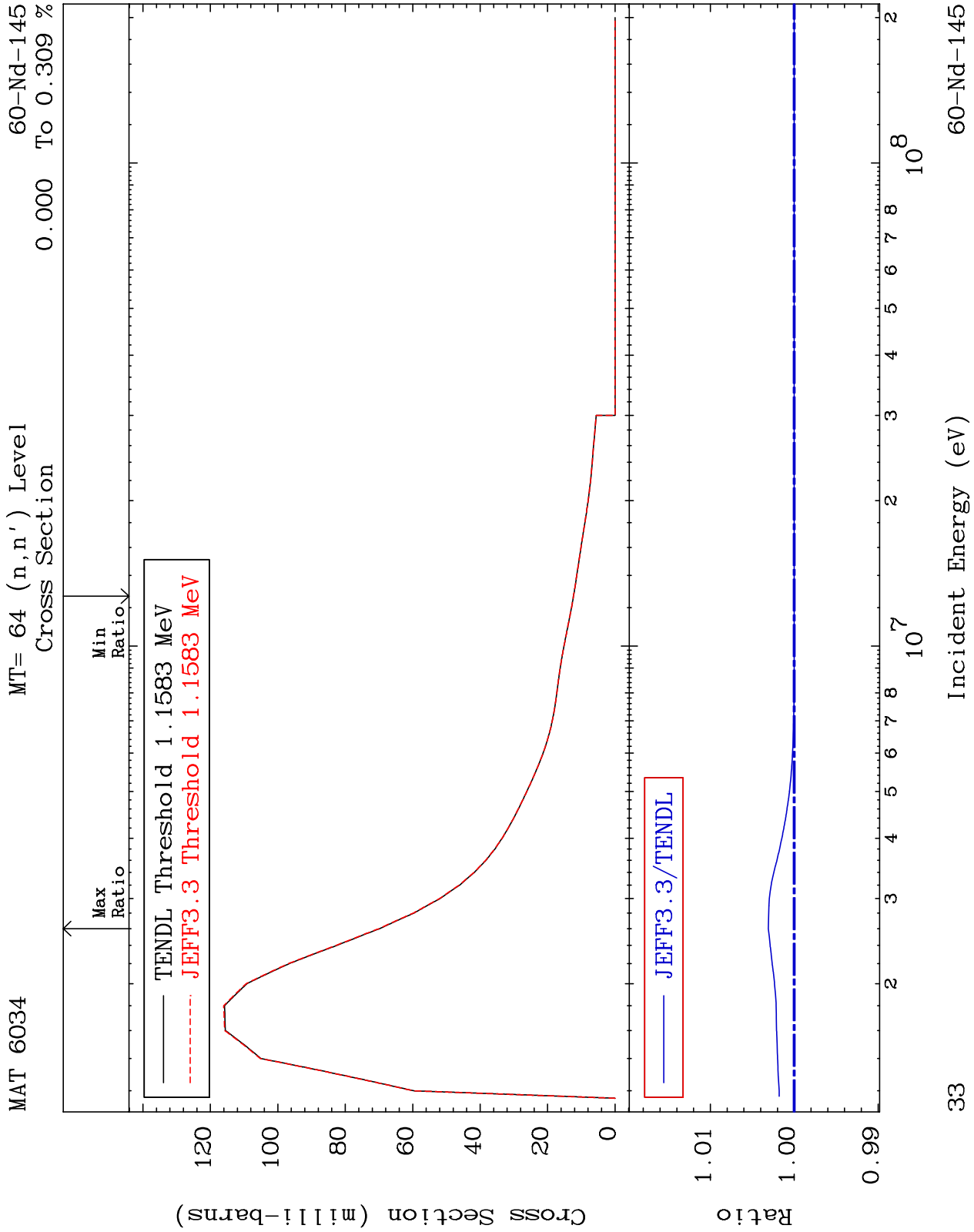
MT= 61 (n,n') Level
Cross Section

60-Nd-145
0.000 To 2.938 %





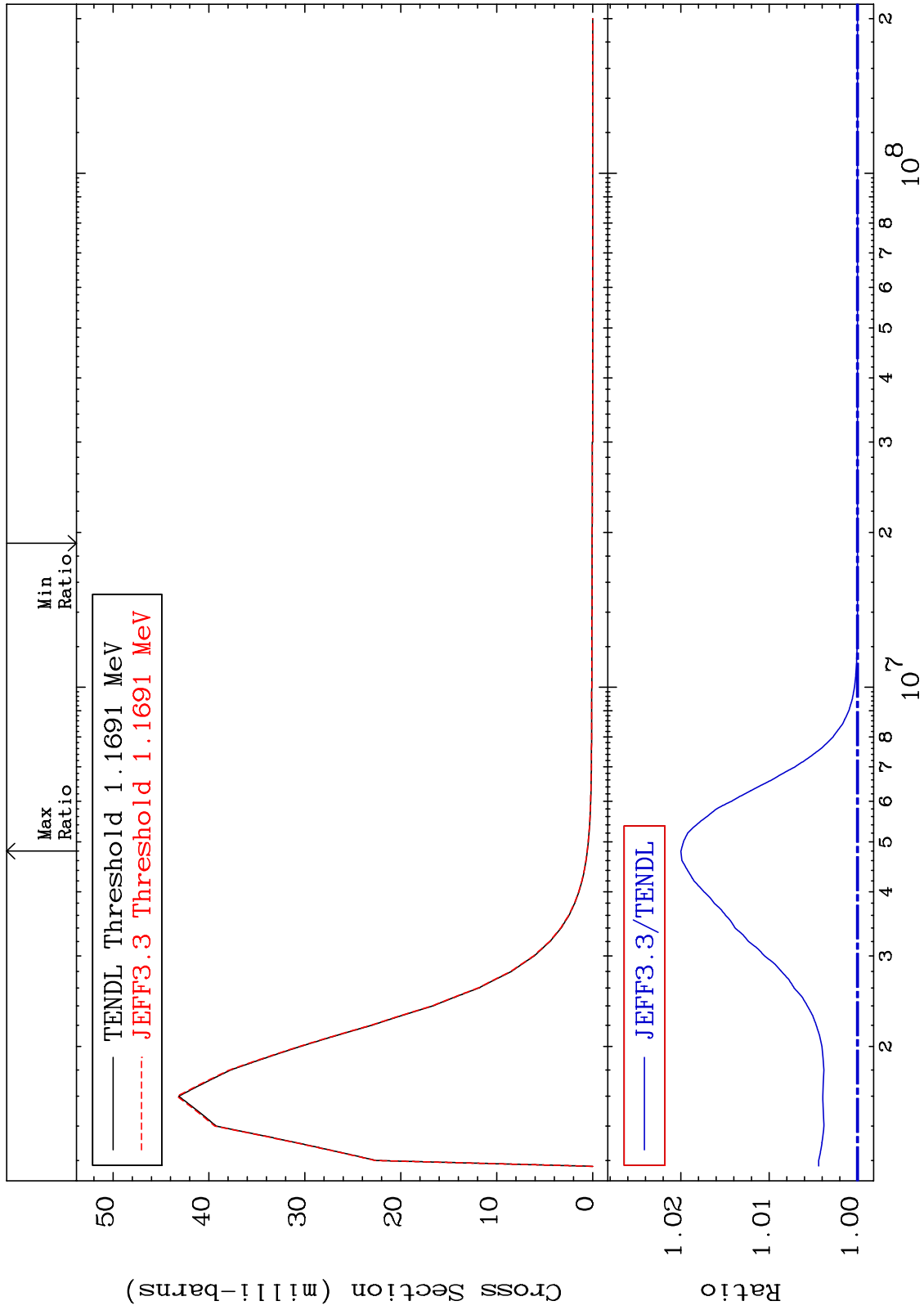




MAT 6034

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

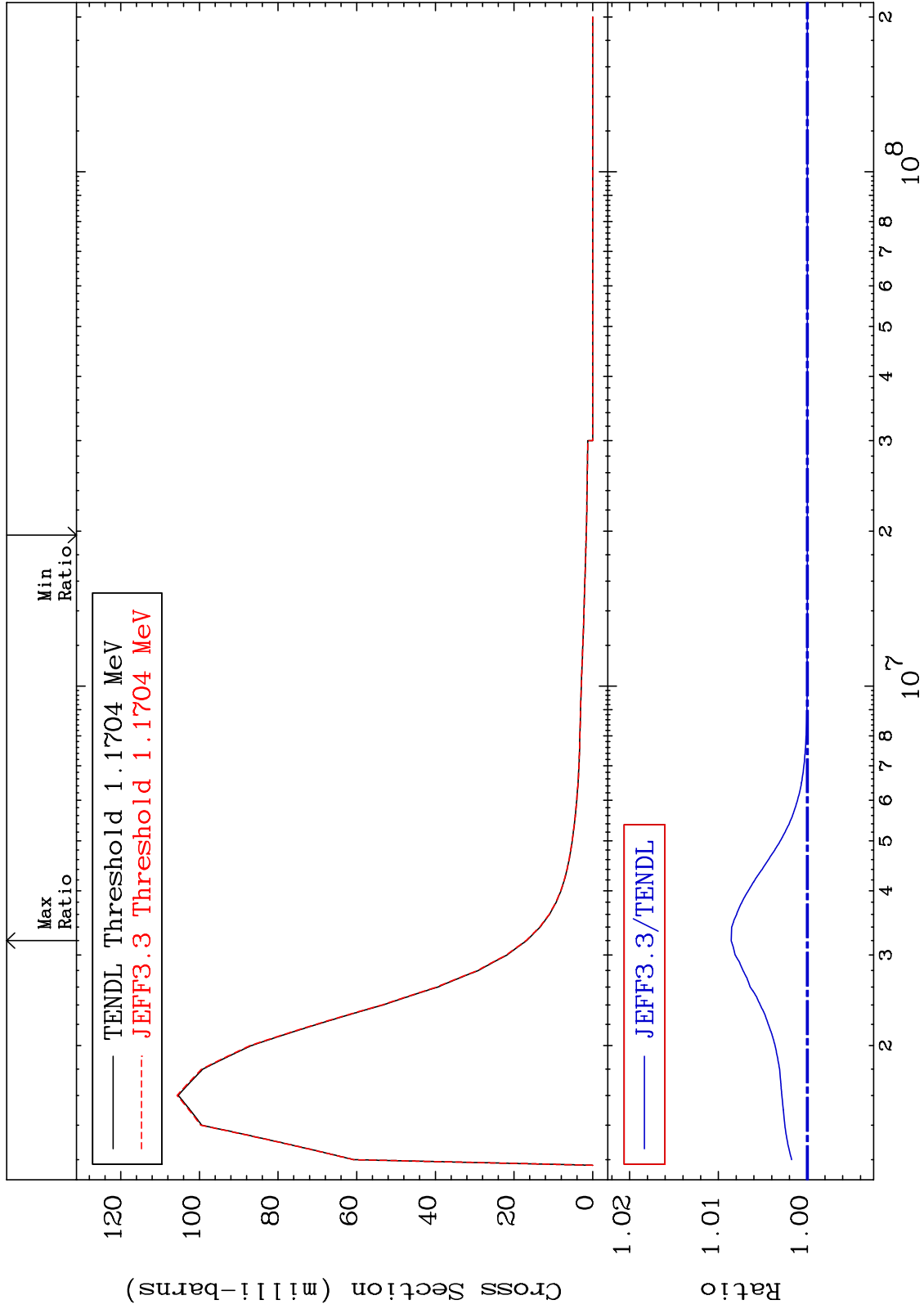
60-Nd-145
To 2.000 %
0.000

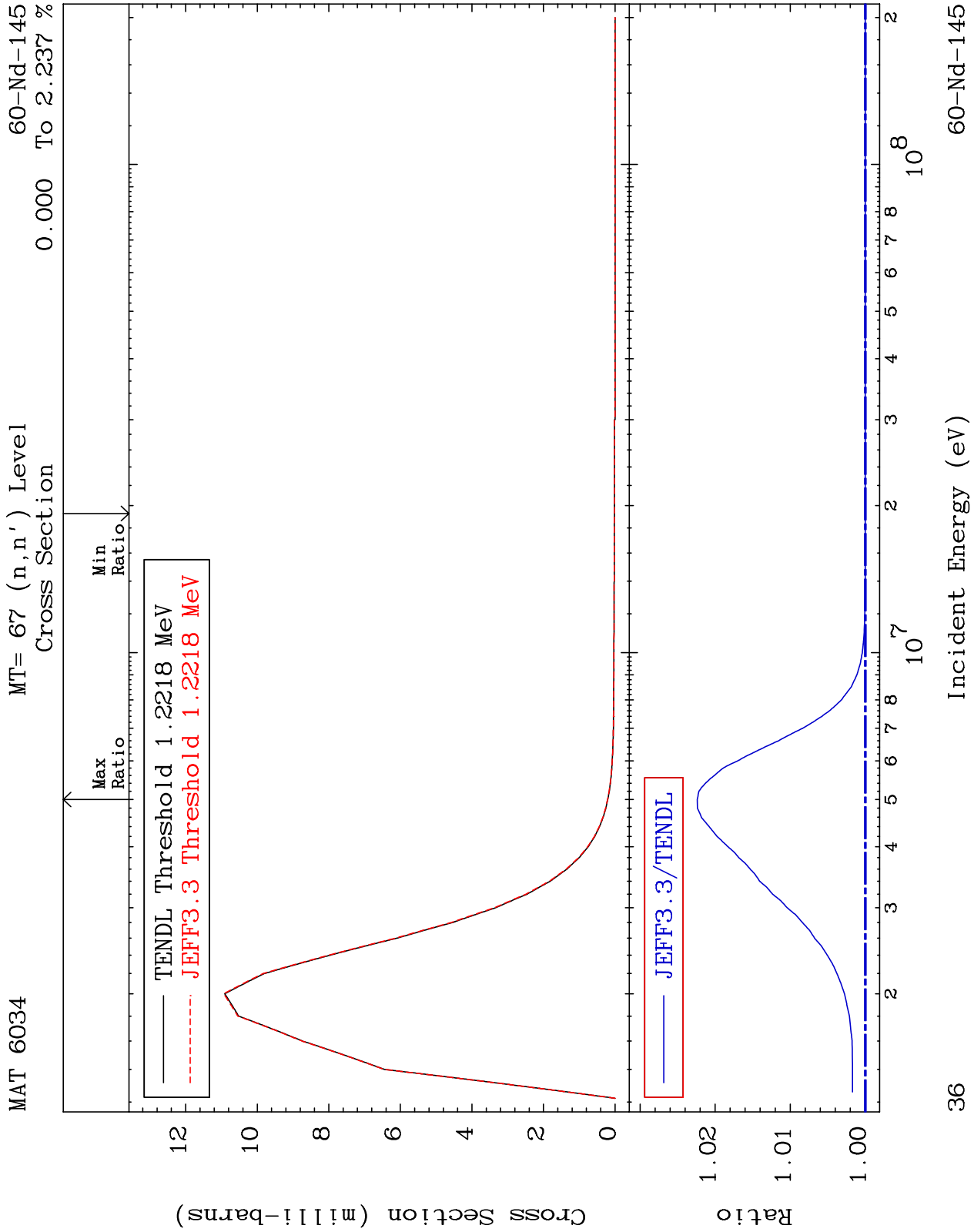


MAT 6034

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

60-Nd-145
0.000 To 0.856 %

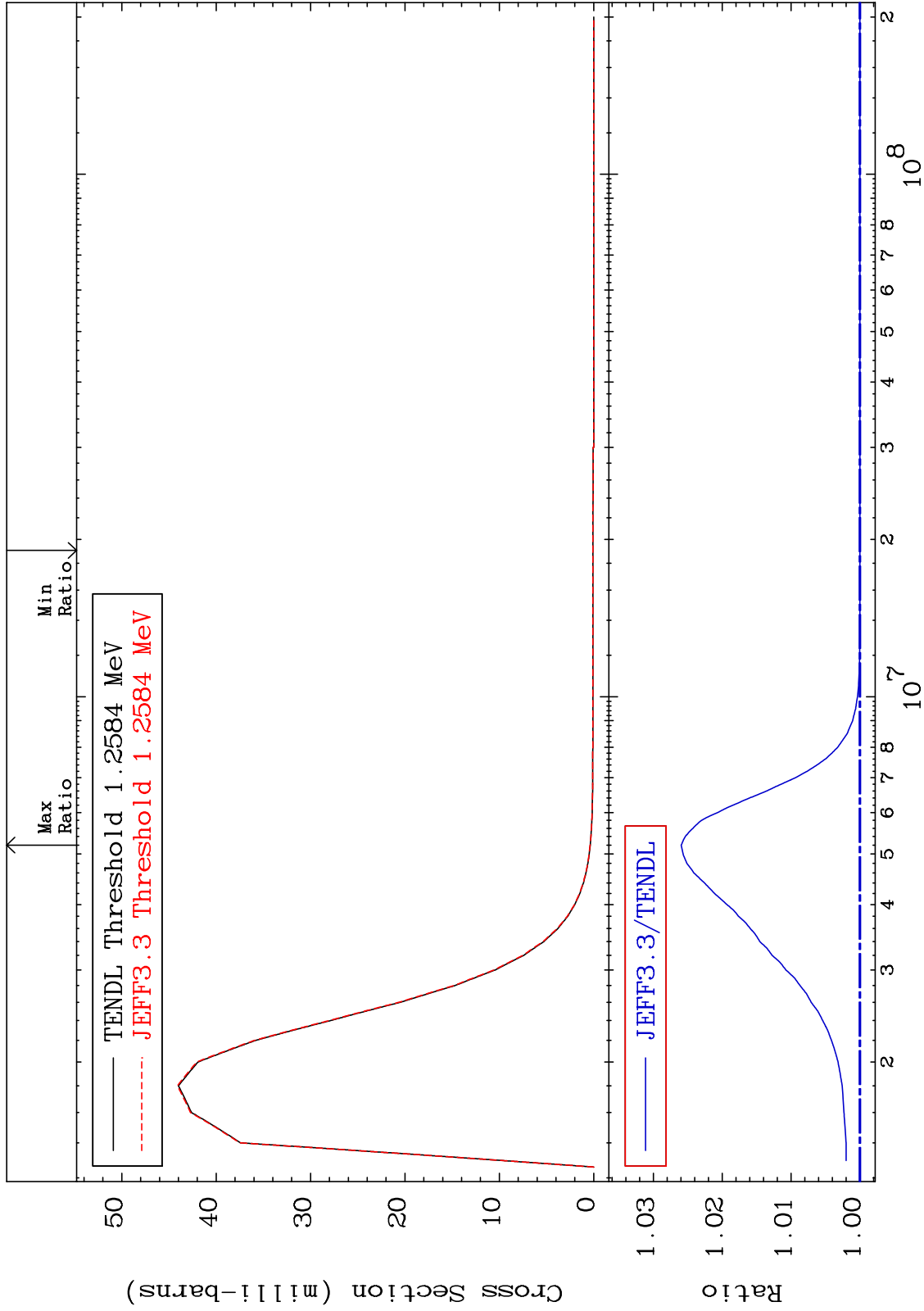




MAT 6034

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

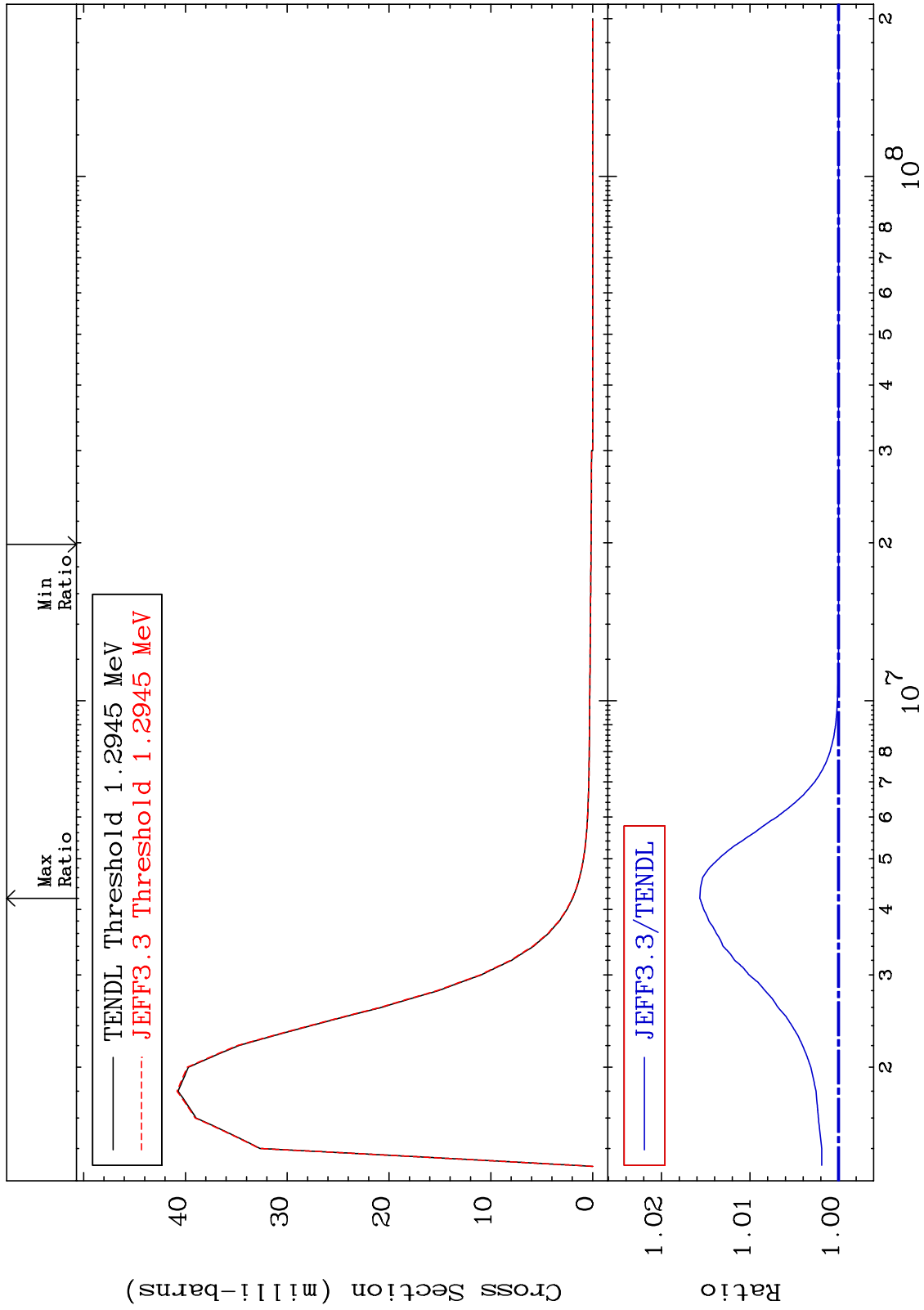
60-Nd-145
0.000 To 2.596 %

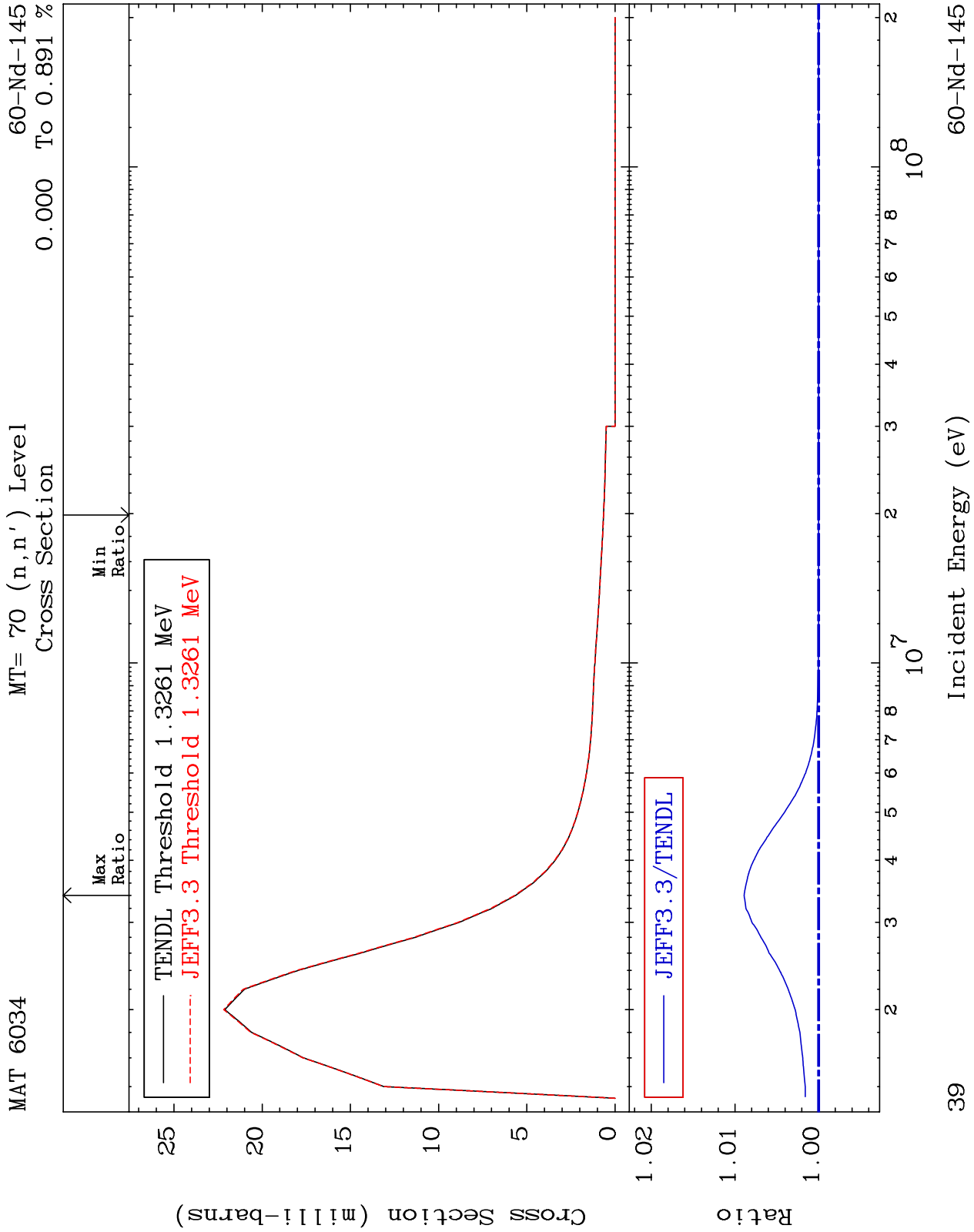


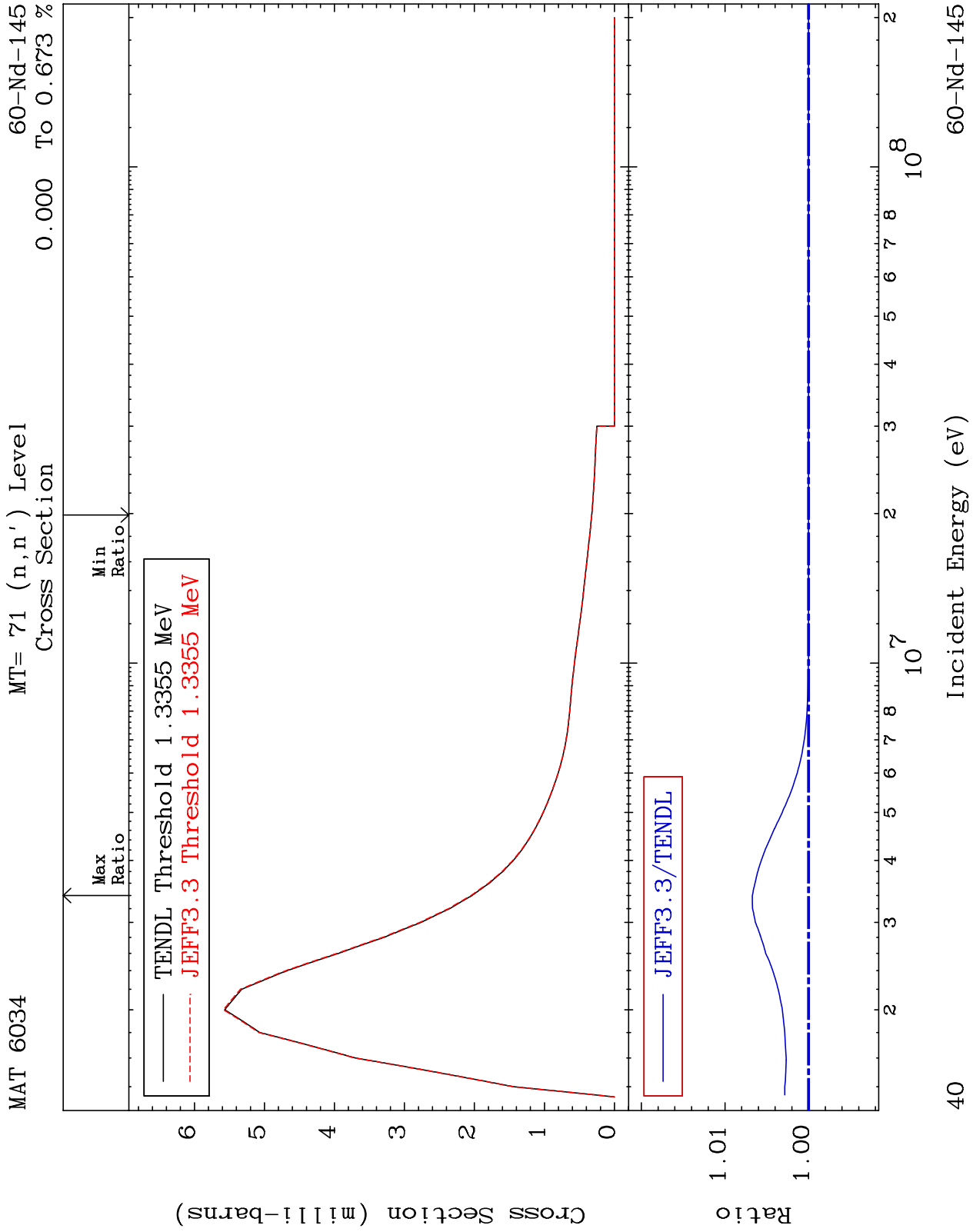
MAT 6034

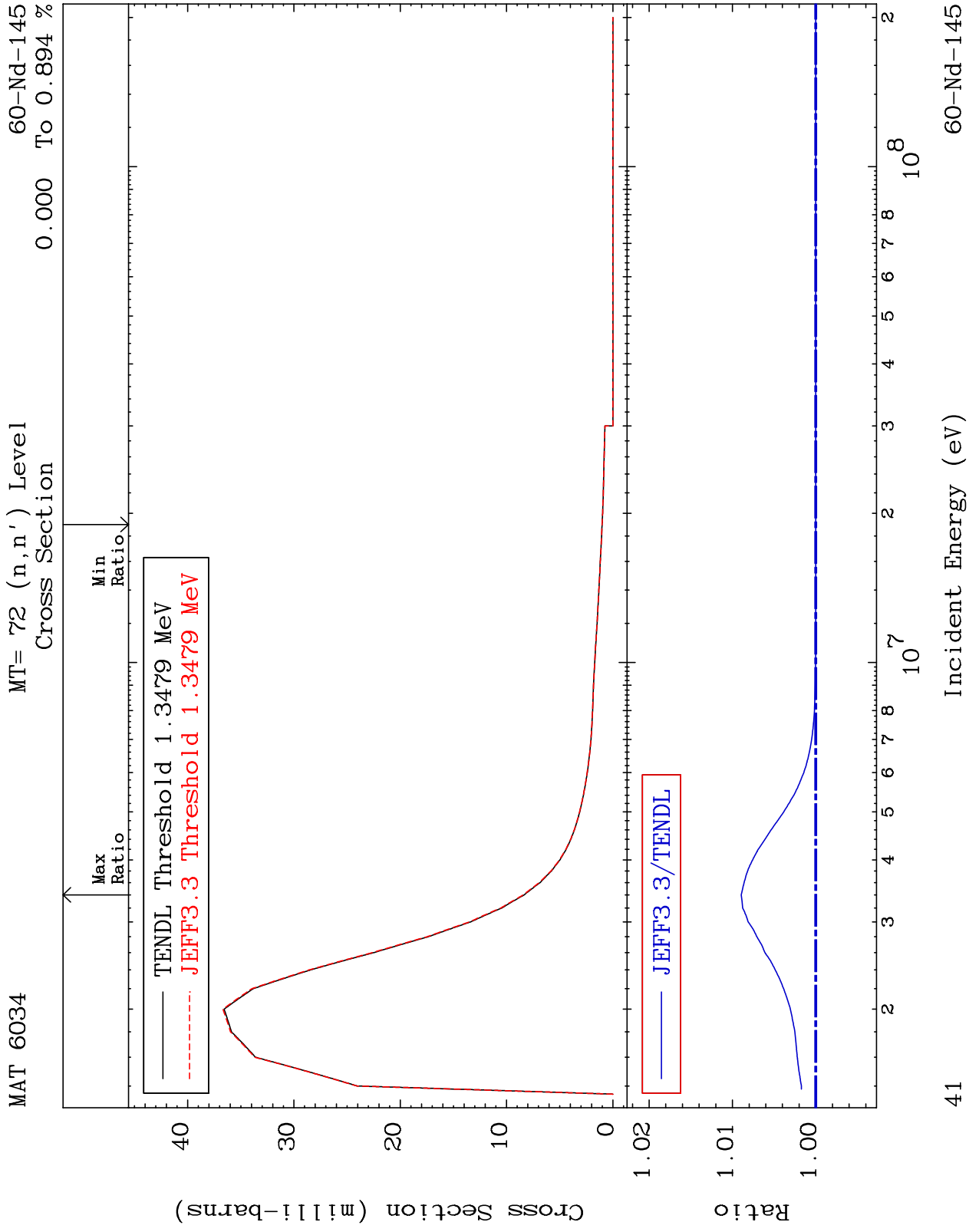
MT= 69 (n, n') Level
Cross Section

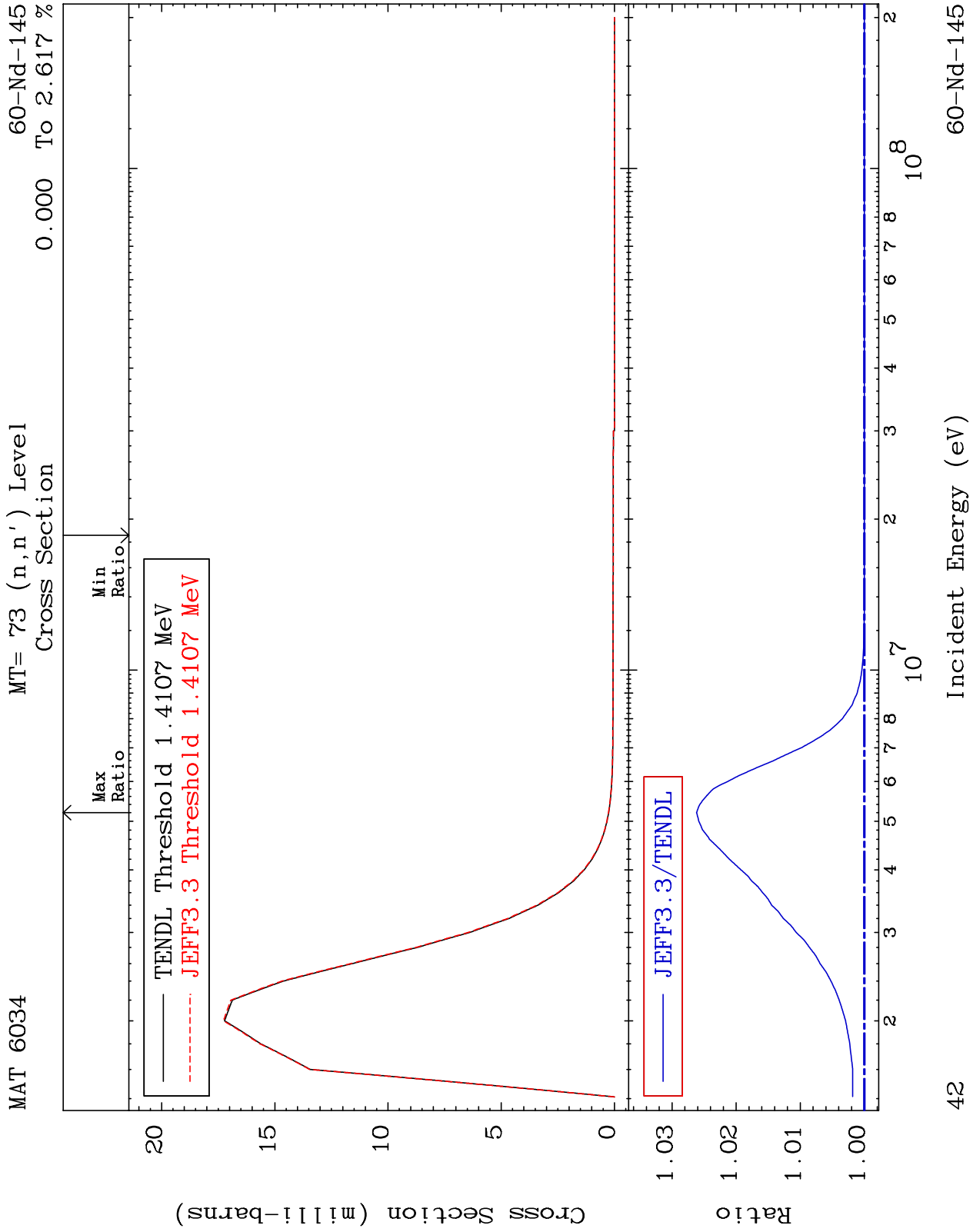
60-Nd-145
To 1.566 %
0.000

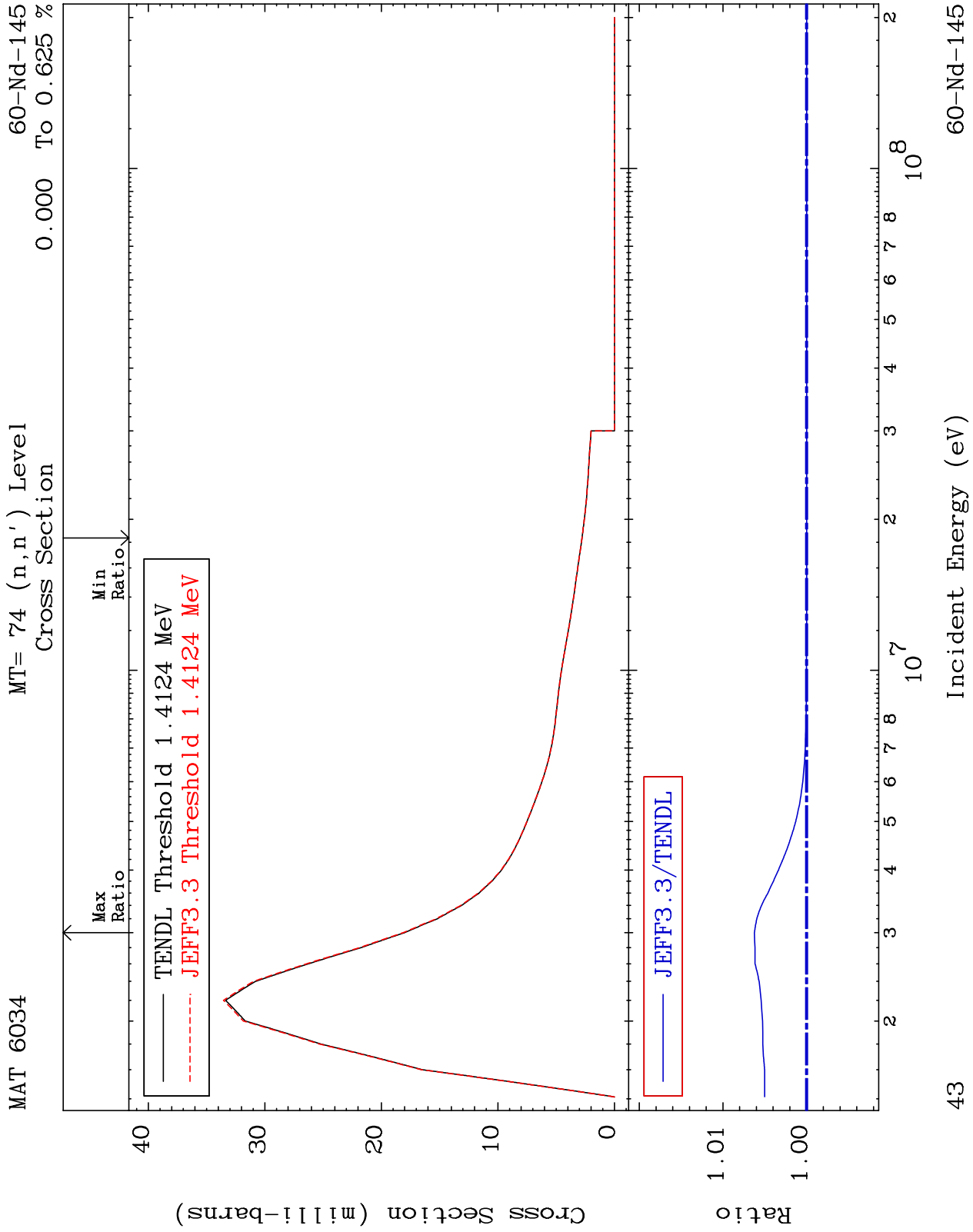








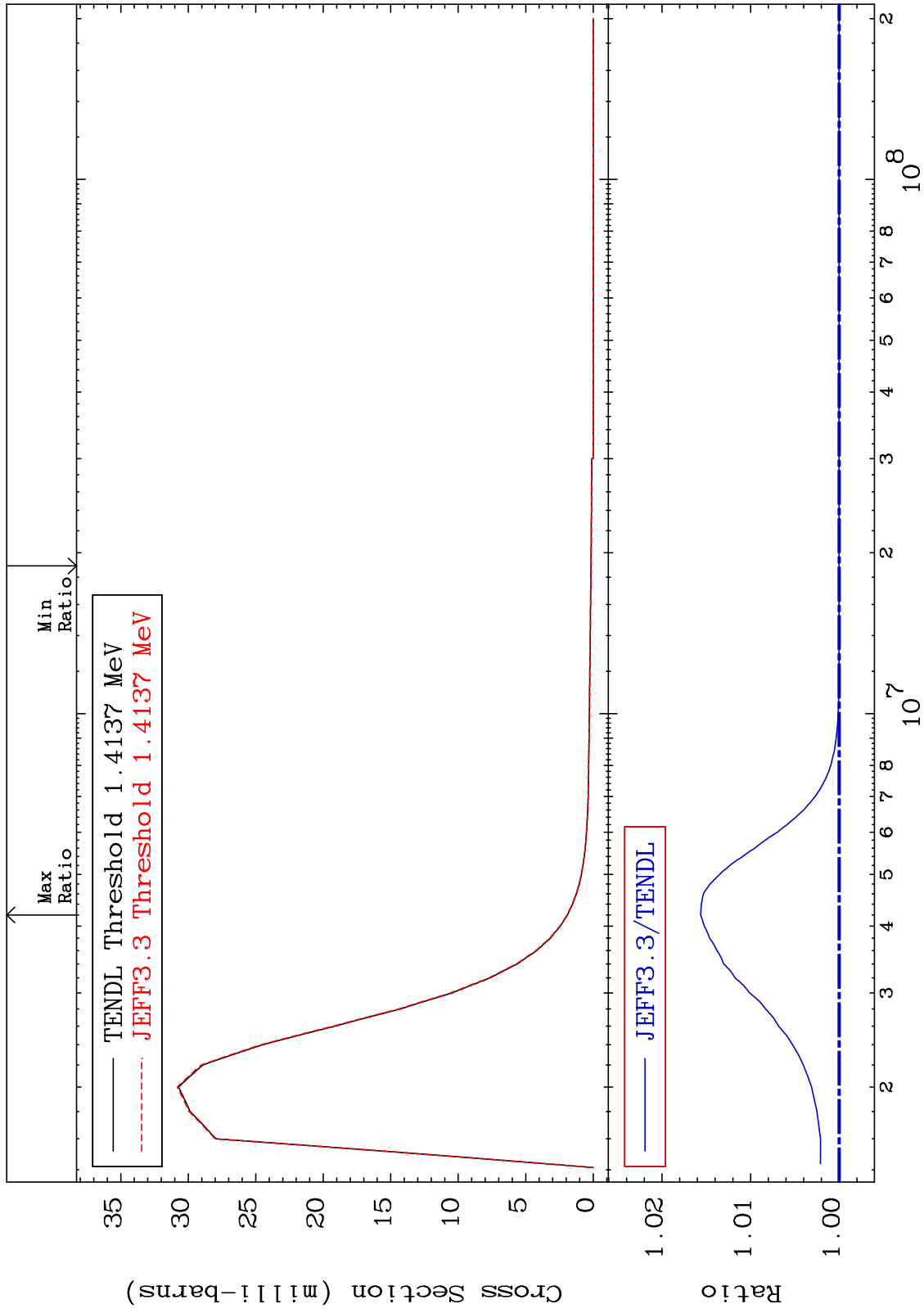




MAT 6034

MT= 75 (n,n') Level
Cross Section

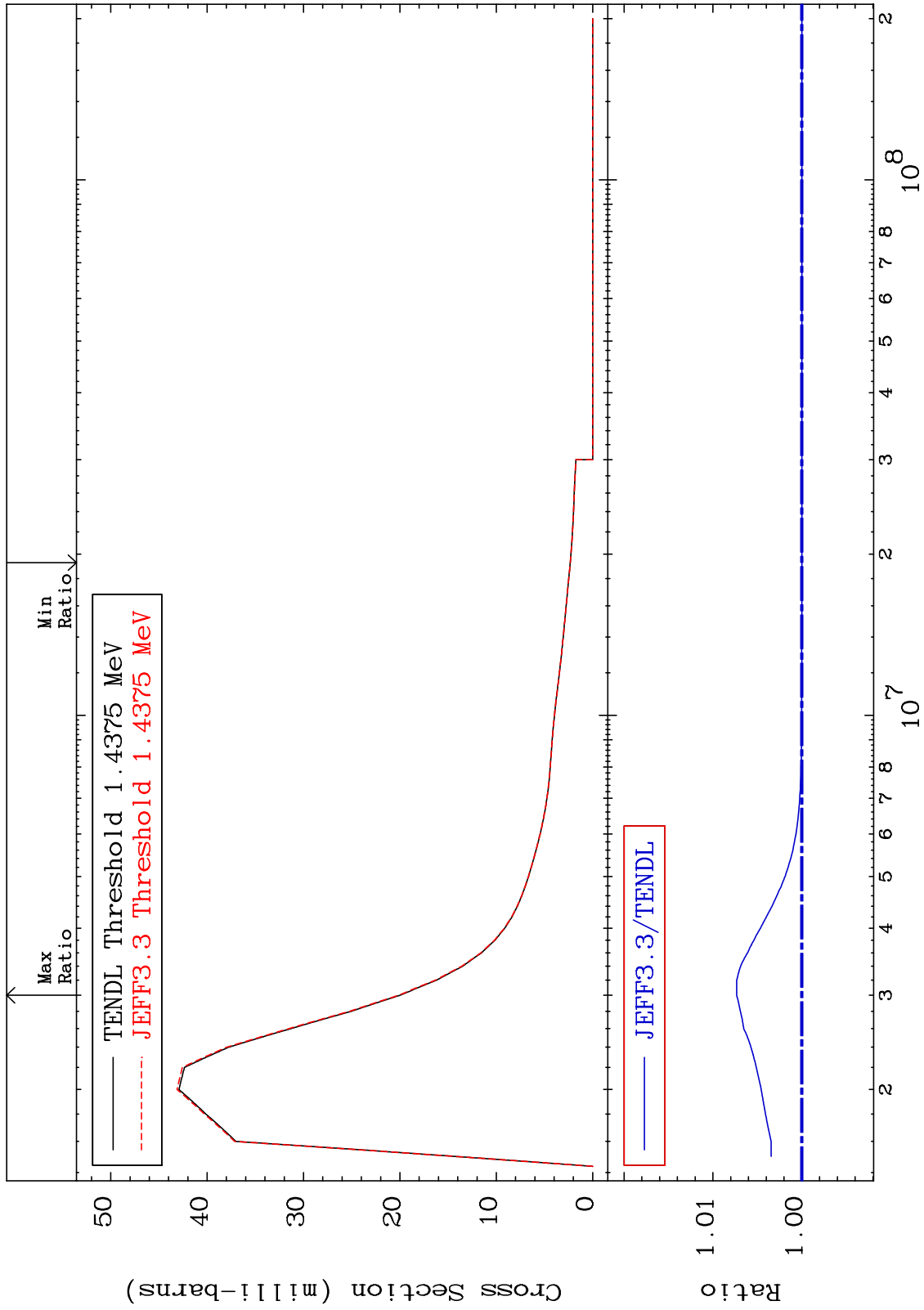
60-Nd-145
0.000 To 1.563 %



MAT 6034

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

60-Nd-145
0.000 To 0.733 %



45

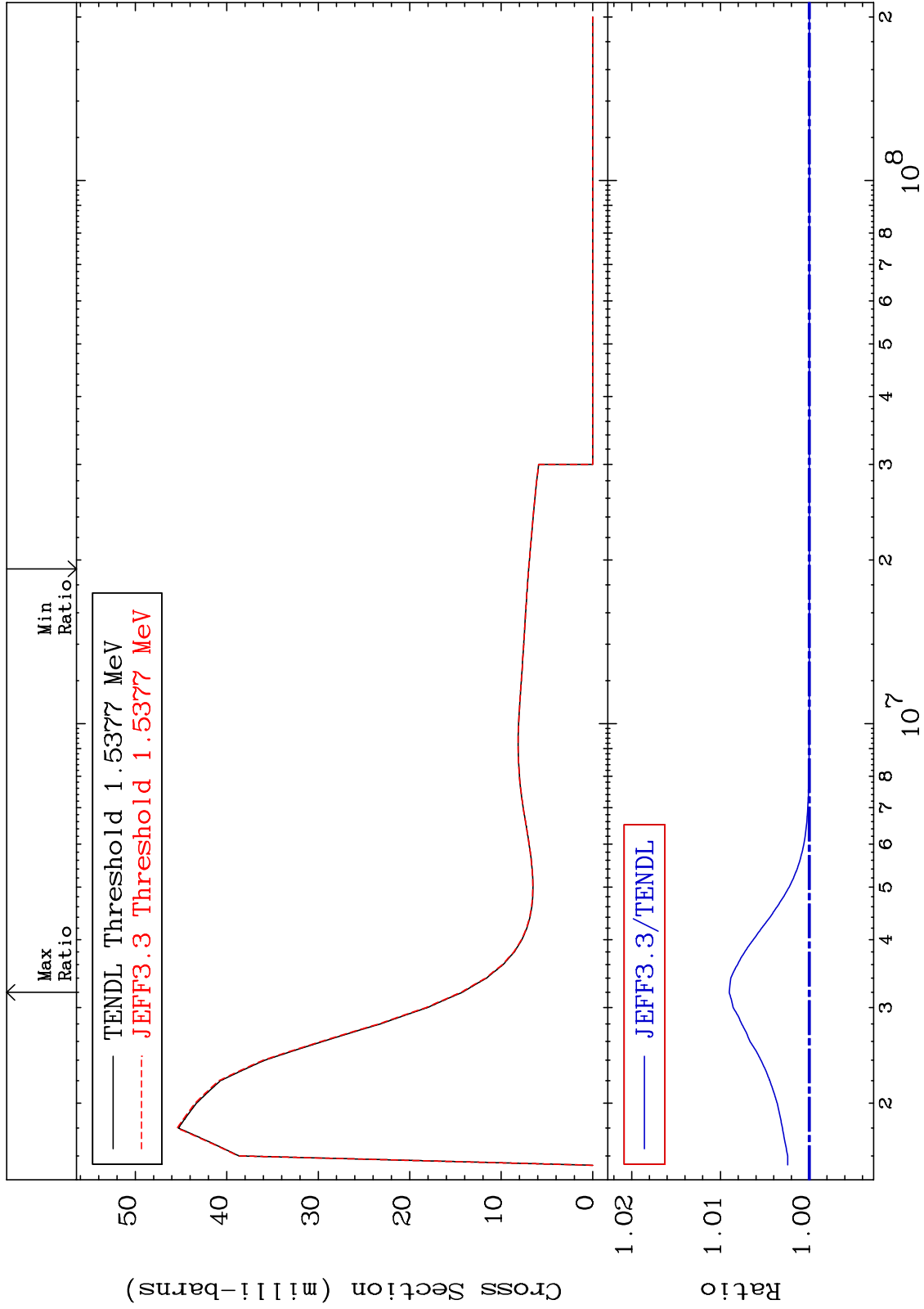
Incident Energy (eV)

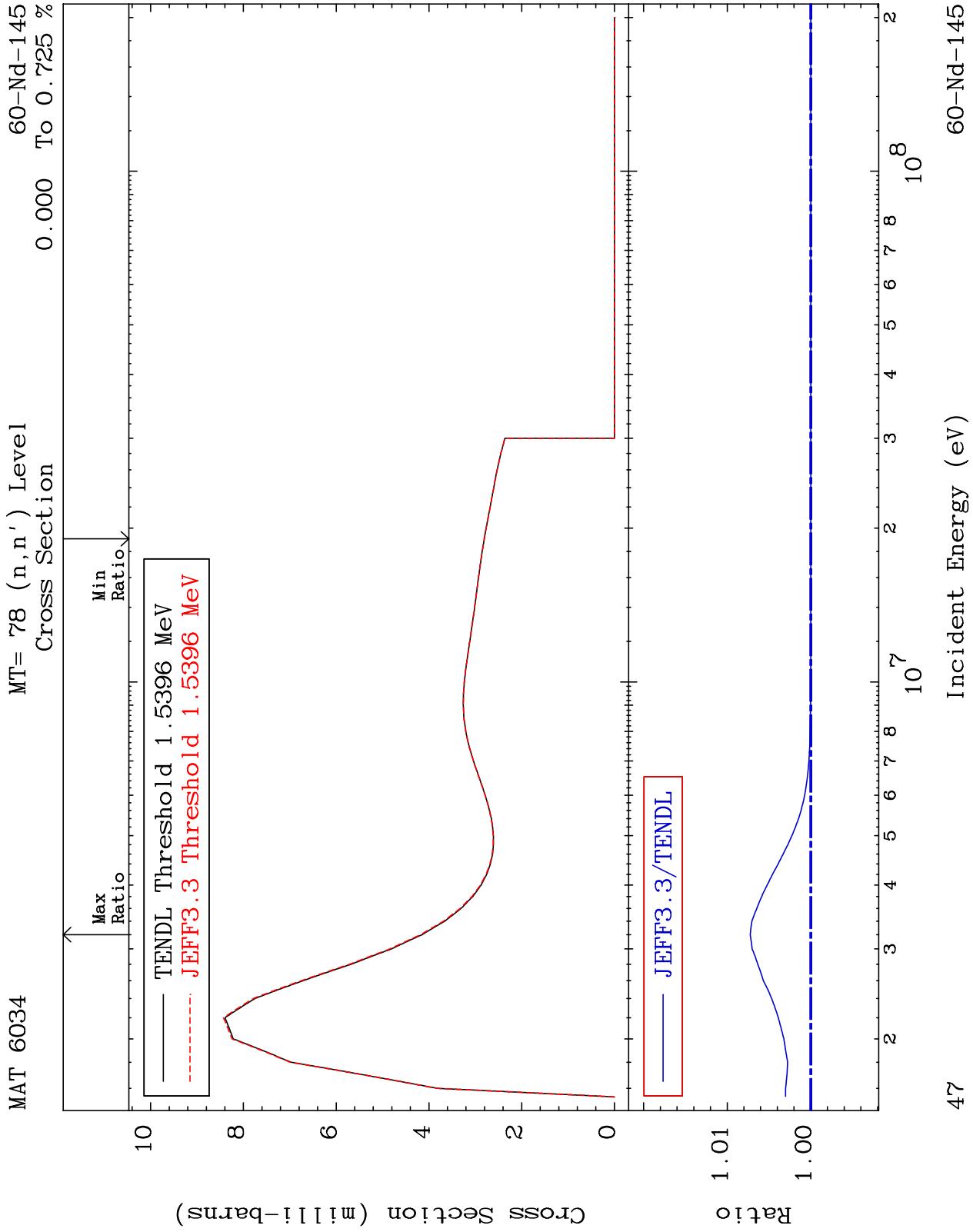
60-Nd-145

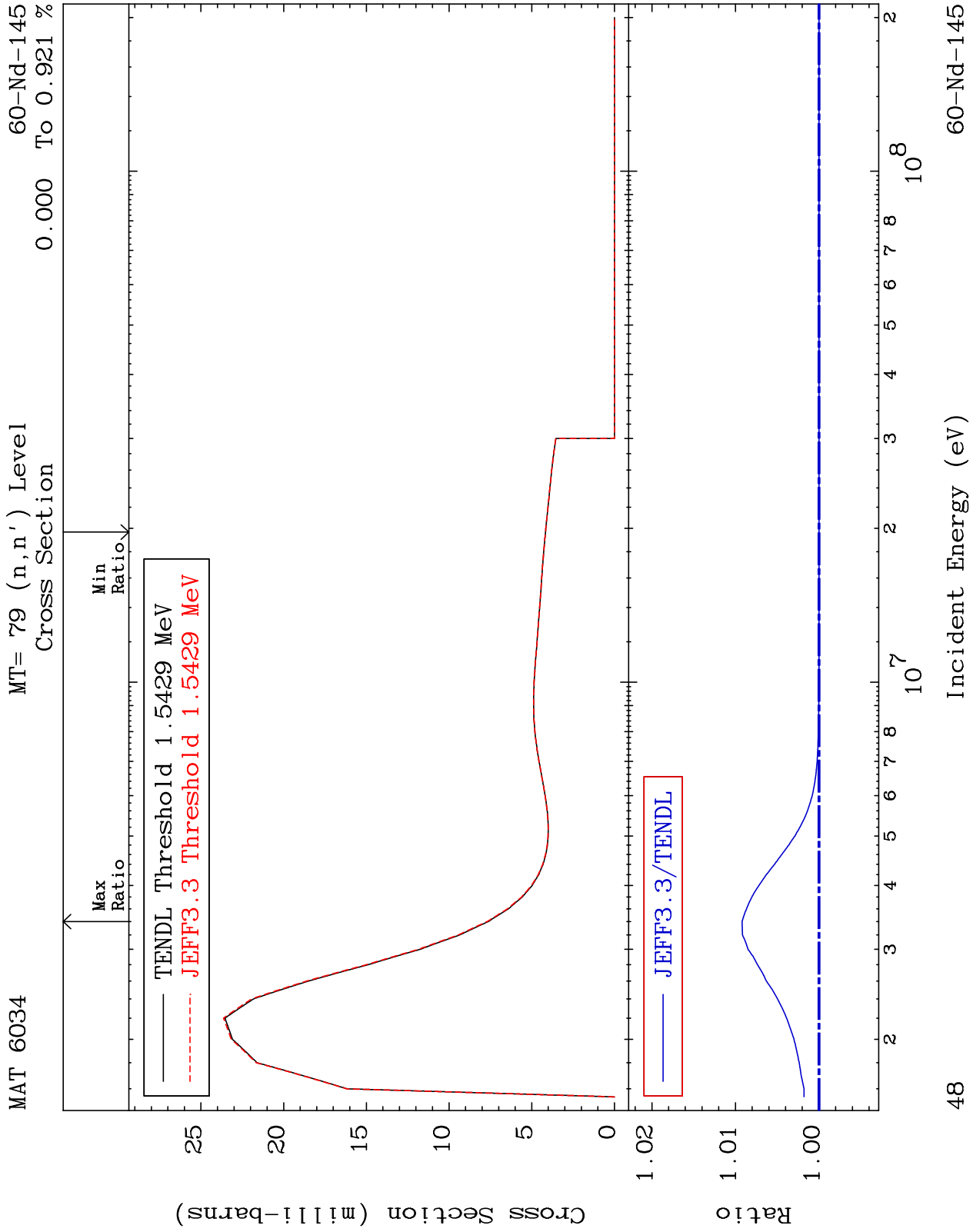
MAT 6034

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

60-Nd-145
0.000 To 0.902 %



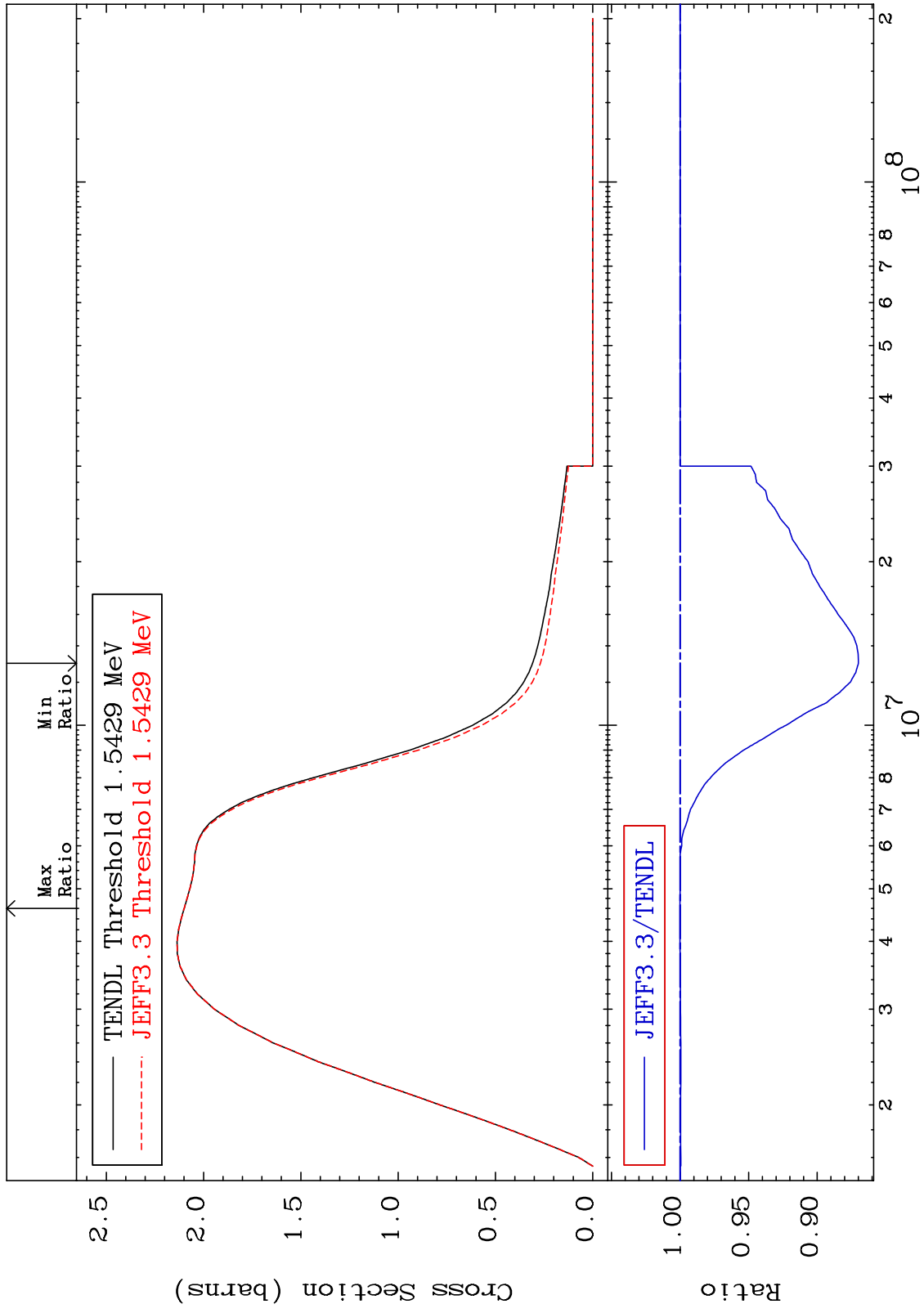




MAT 6034

(n, n') Continuum
Cross Section

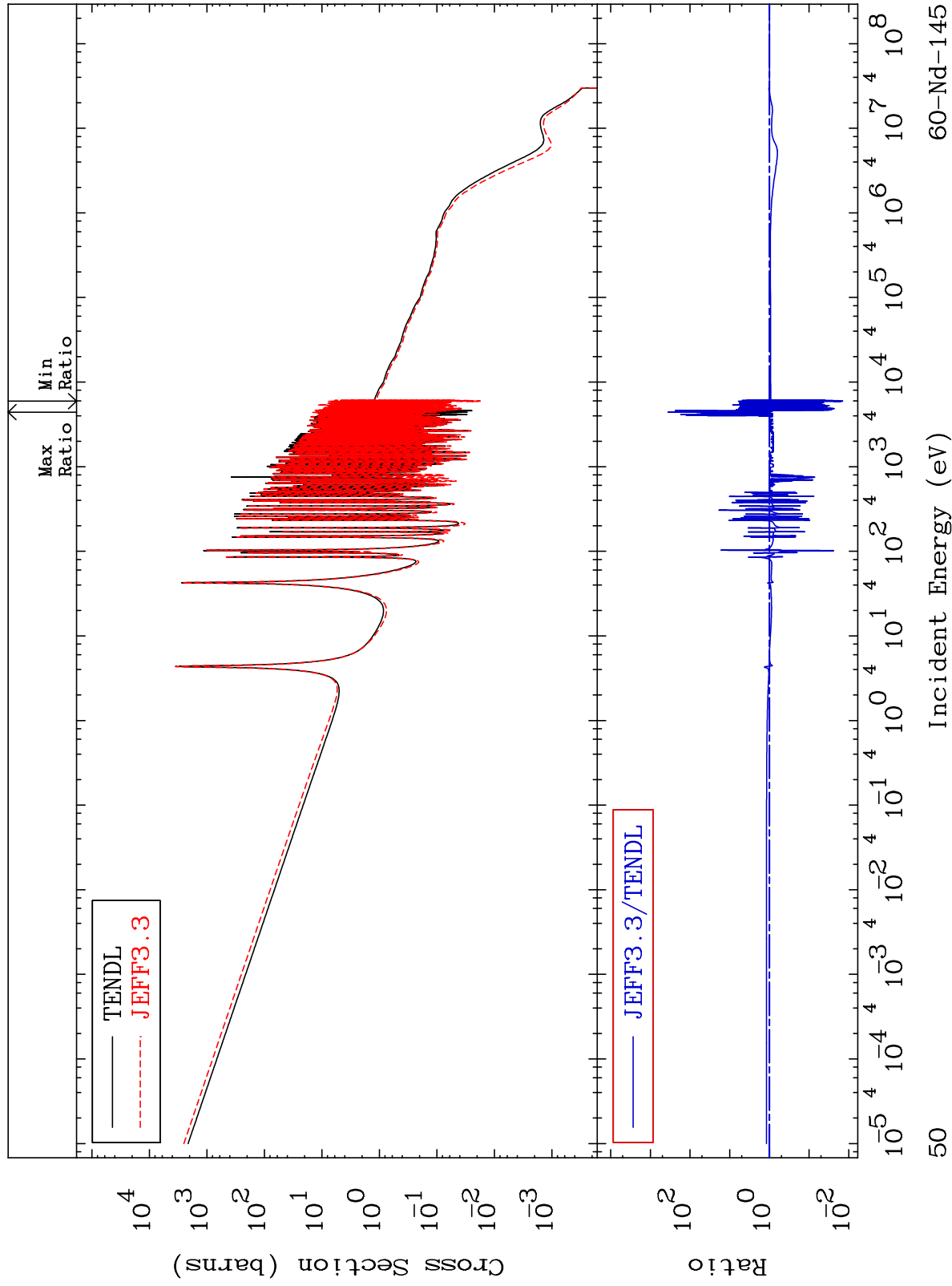
60-Nd-145
-13.00 To 0.007 %



MAT 6034

(n, γ)
Cross Section

60-Nd-145
-98.59 To 9999. %



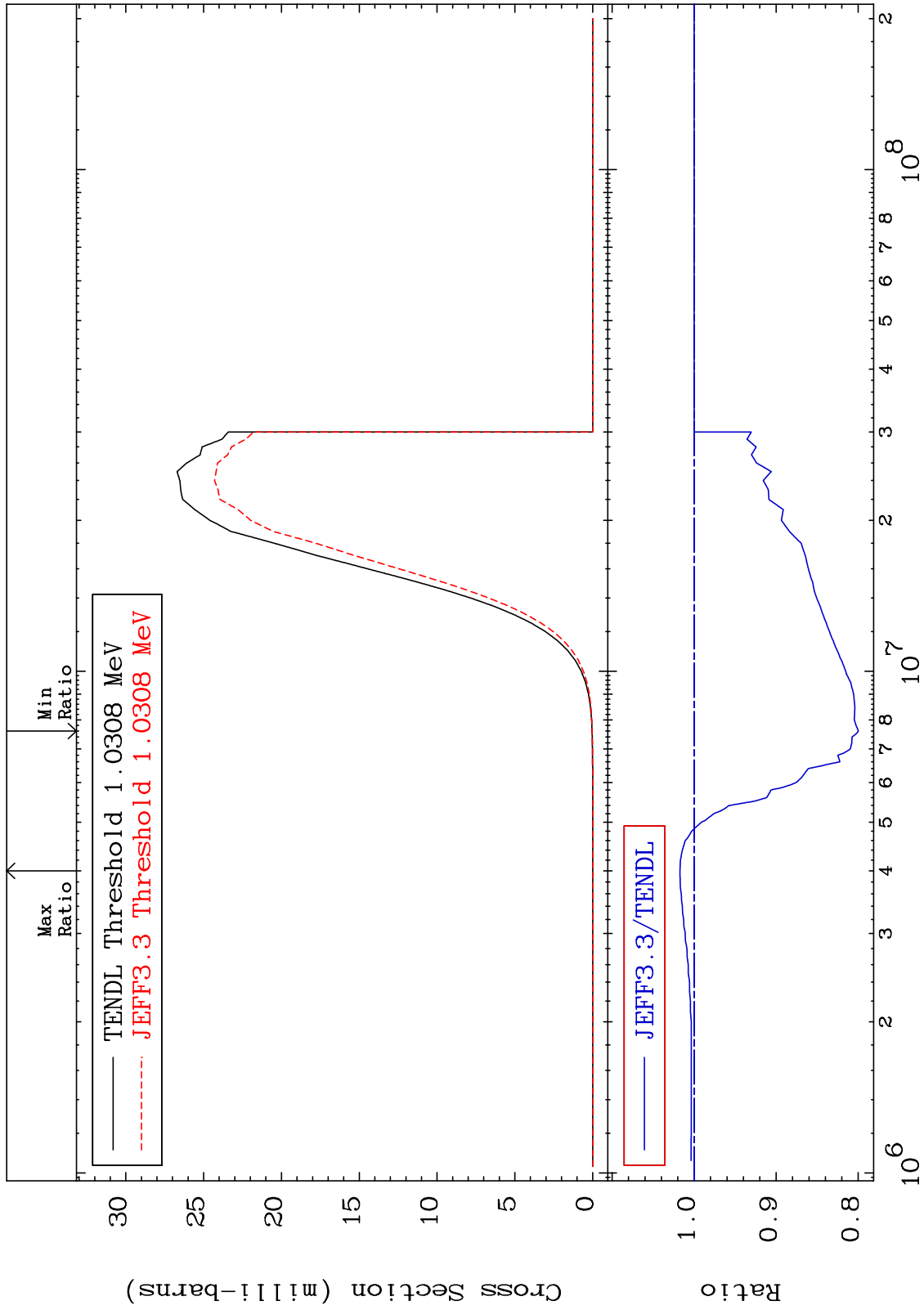
MAT 6034

(n, p)

60-Nd-145

Cross Section

-20.03 To 1.725 %



51

Incident Energy (eV)

60-Nd-145

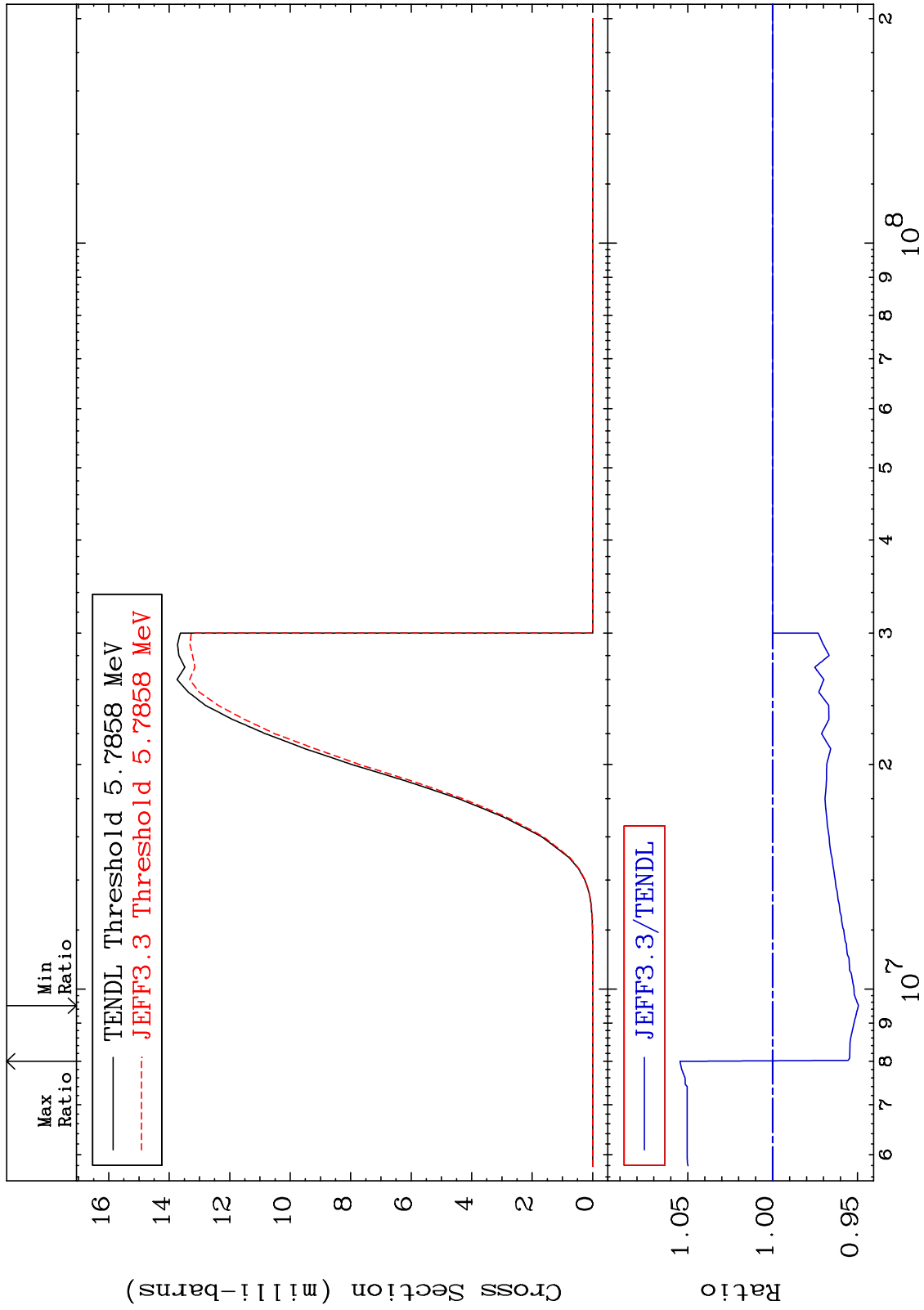
MAT 6034

(n, d)

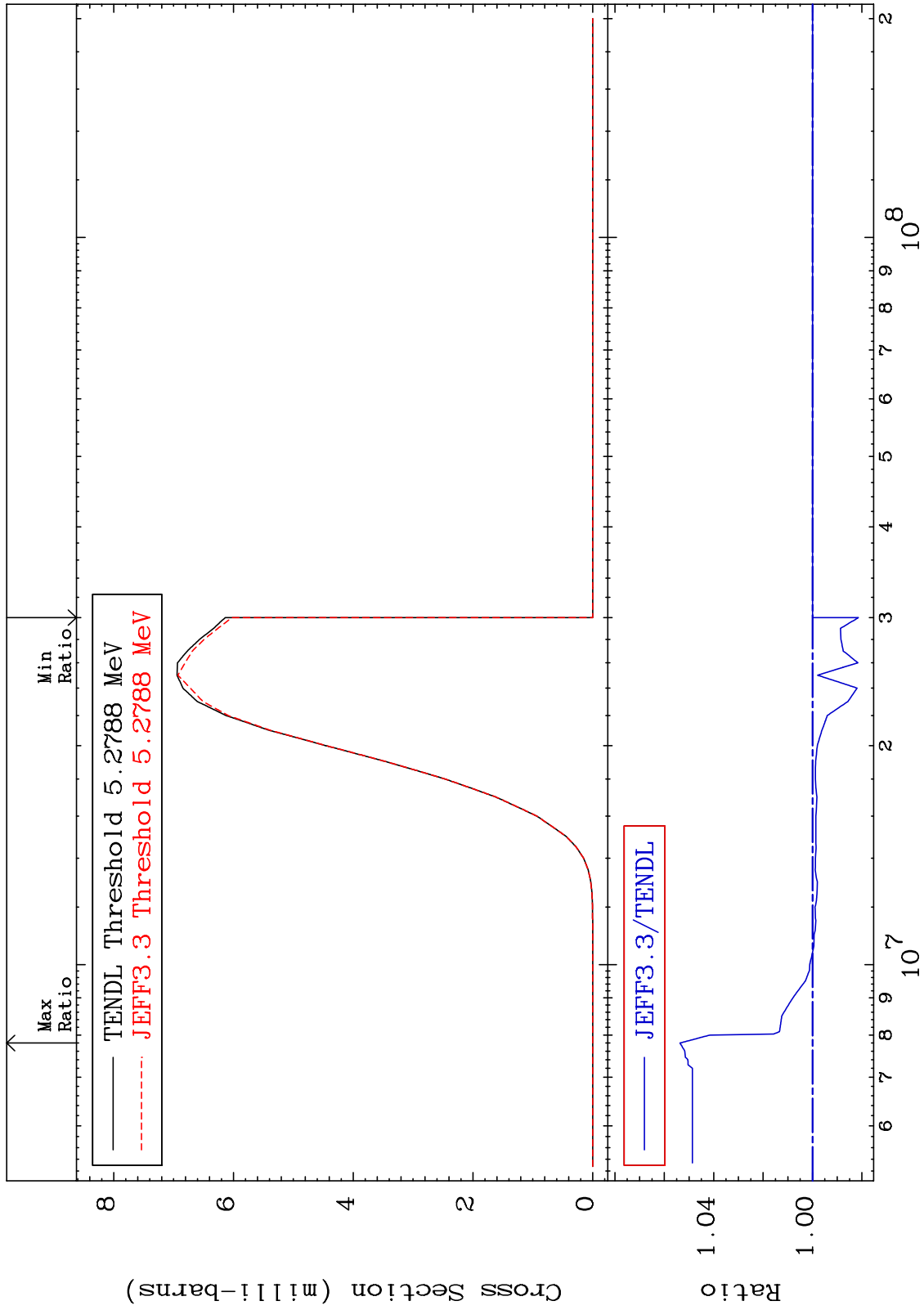
60-Nd-145

Cross Section

-5.053 To 5.458 %



MAT 6034 (n, t) Cross Section 60-Nd-145 -1.858 To 5.364 %



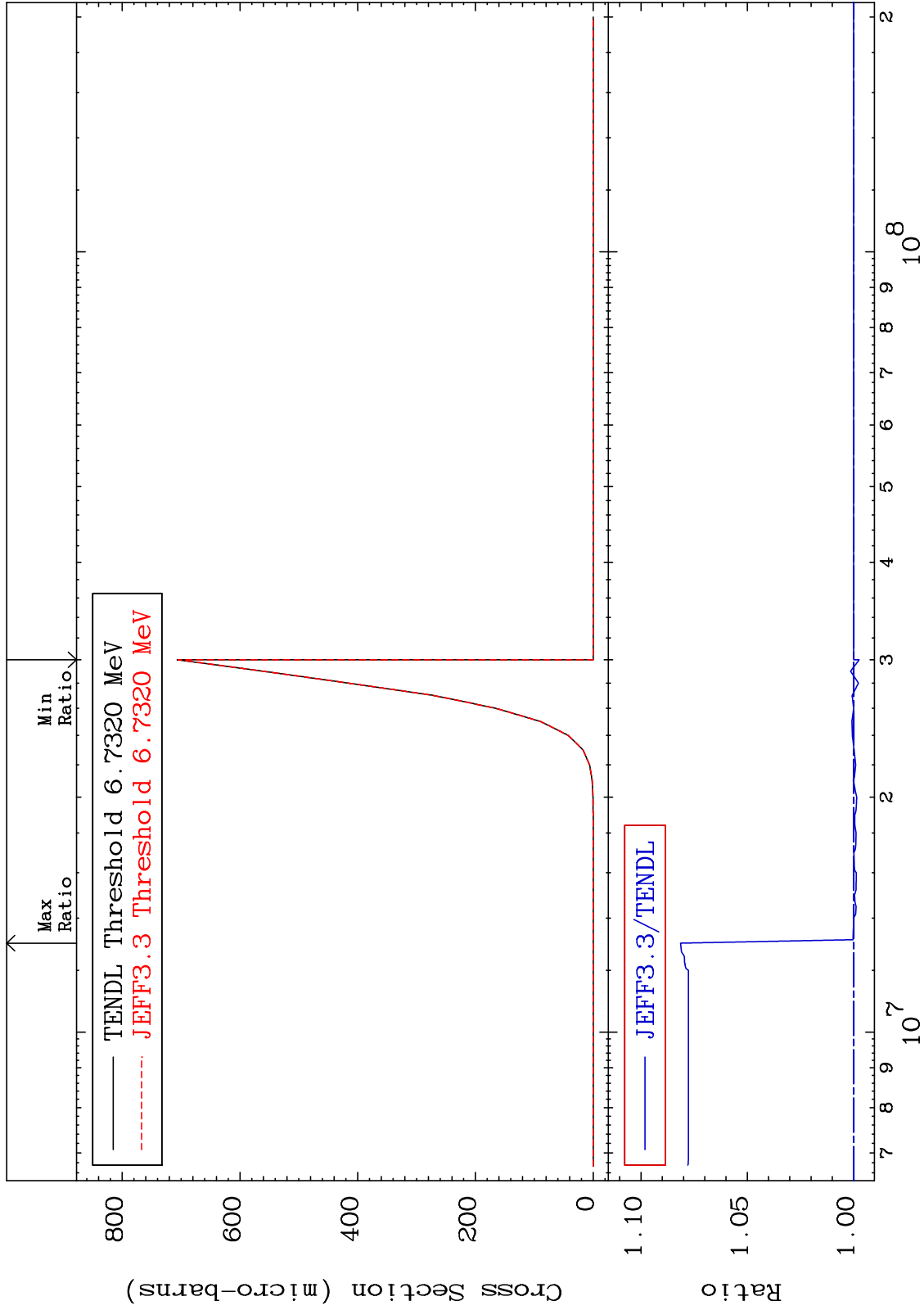
MAT 6034

(n, He-3)

60-Nd-145

Cross Section

-0.263 To 8.136 %



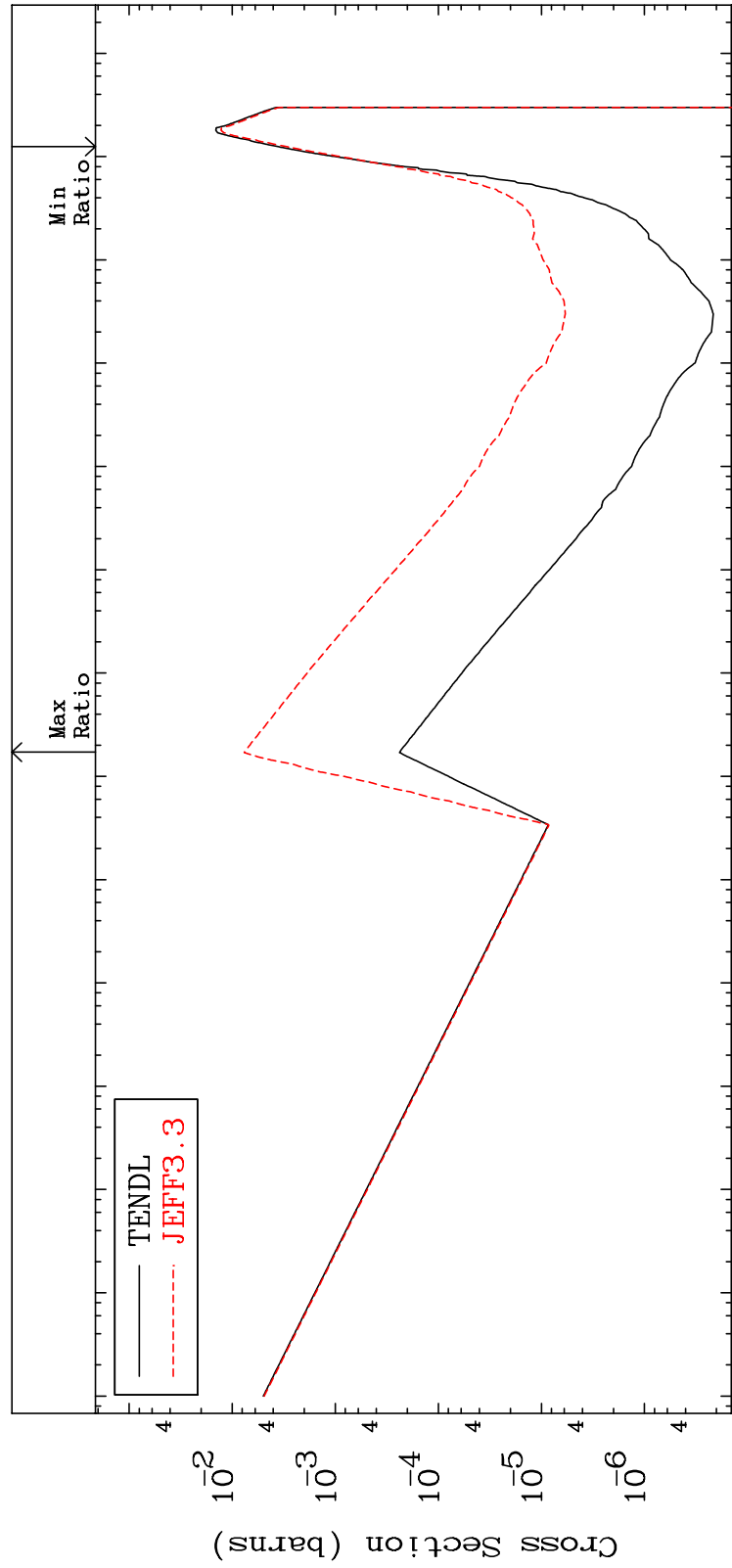
MAT 6034

(n, α)

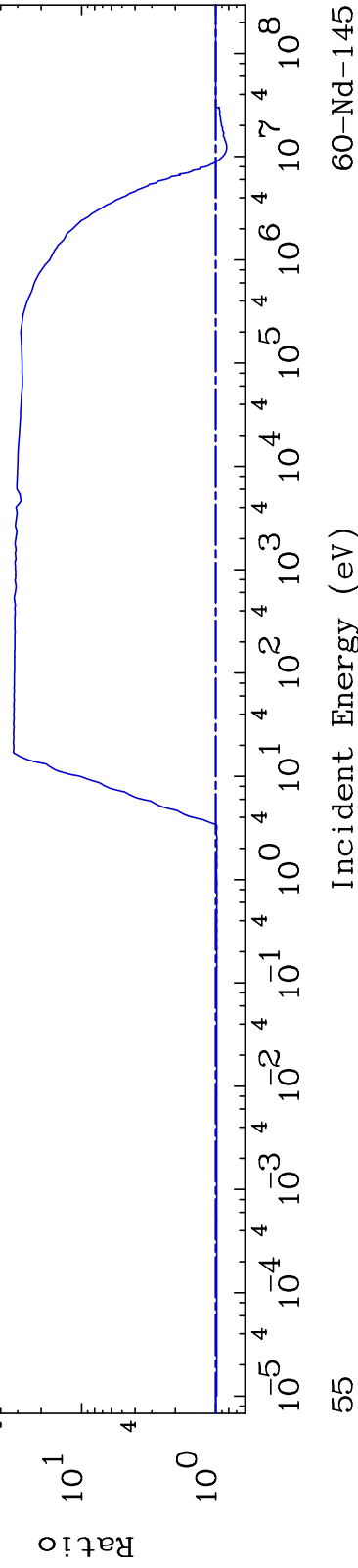
60-Nd-145

-17.20 To 3127. %

Cross Section



JEFF3.3/TENDL



55

Incident Energy (eV)

60-Nd-145

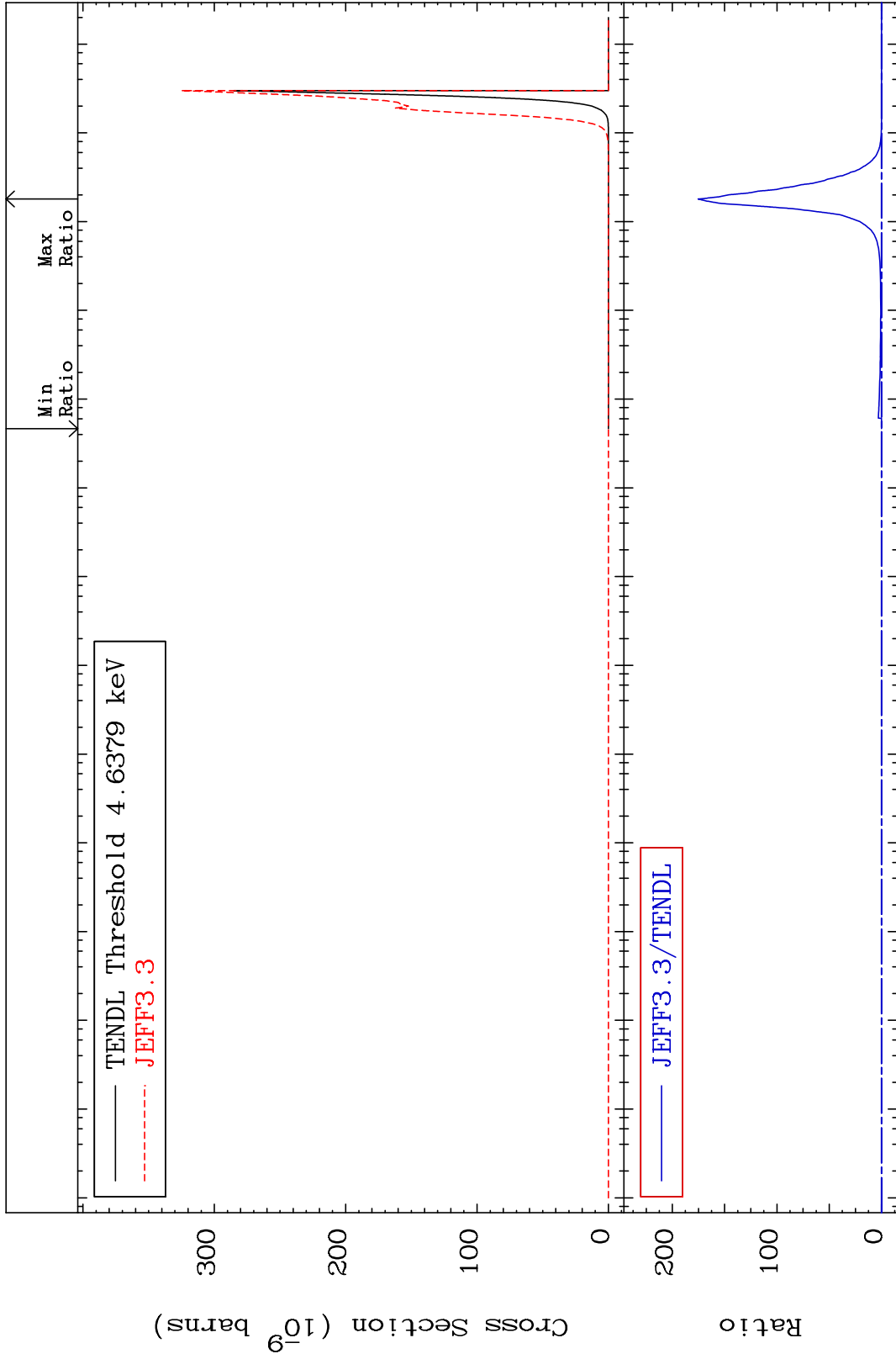
MAT 6034

(n,2α)

60-Nd-145

Cross Section

-100.0 To 9999. %



56

Incident Energy (eV)

60-Nd-145

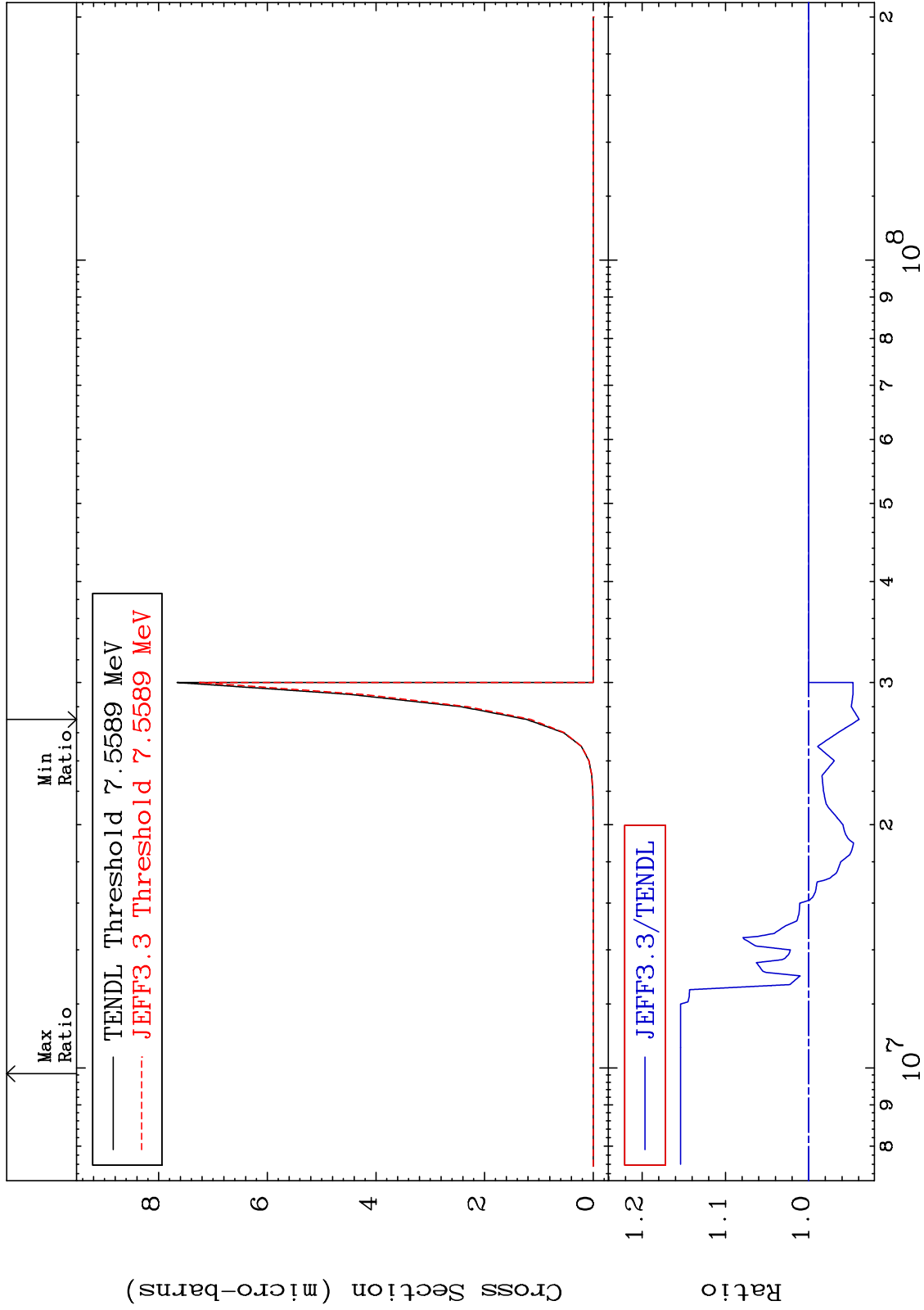
MAT 6034

(n,2p)

60-Nd-145

Cross Section

-6.058 To 15.38 %



57

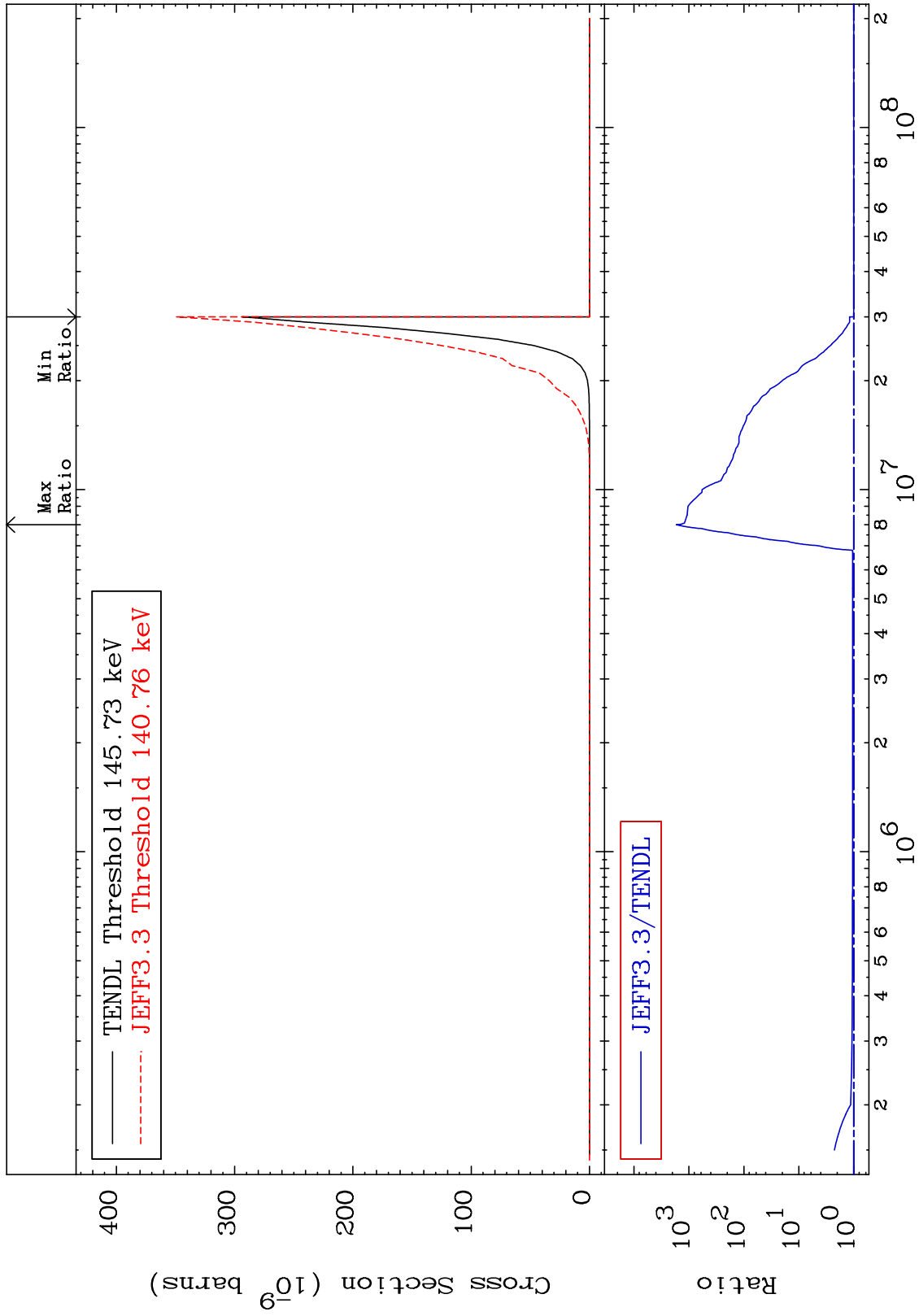
Incident Energy (eV)

60-Nd-145

MAT 6034

(n,p) α
Cross Section

60-Nd-145
To 9999. %
0.000



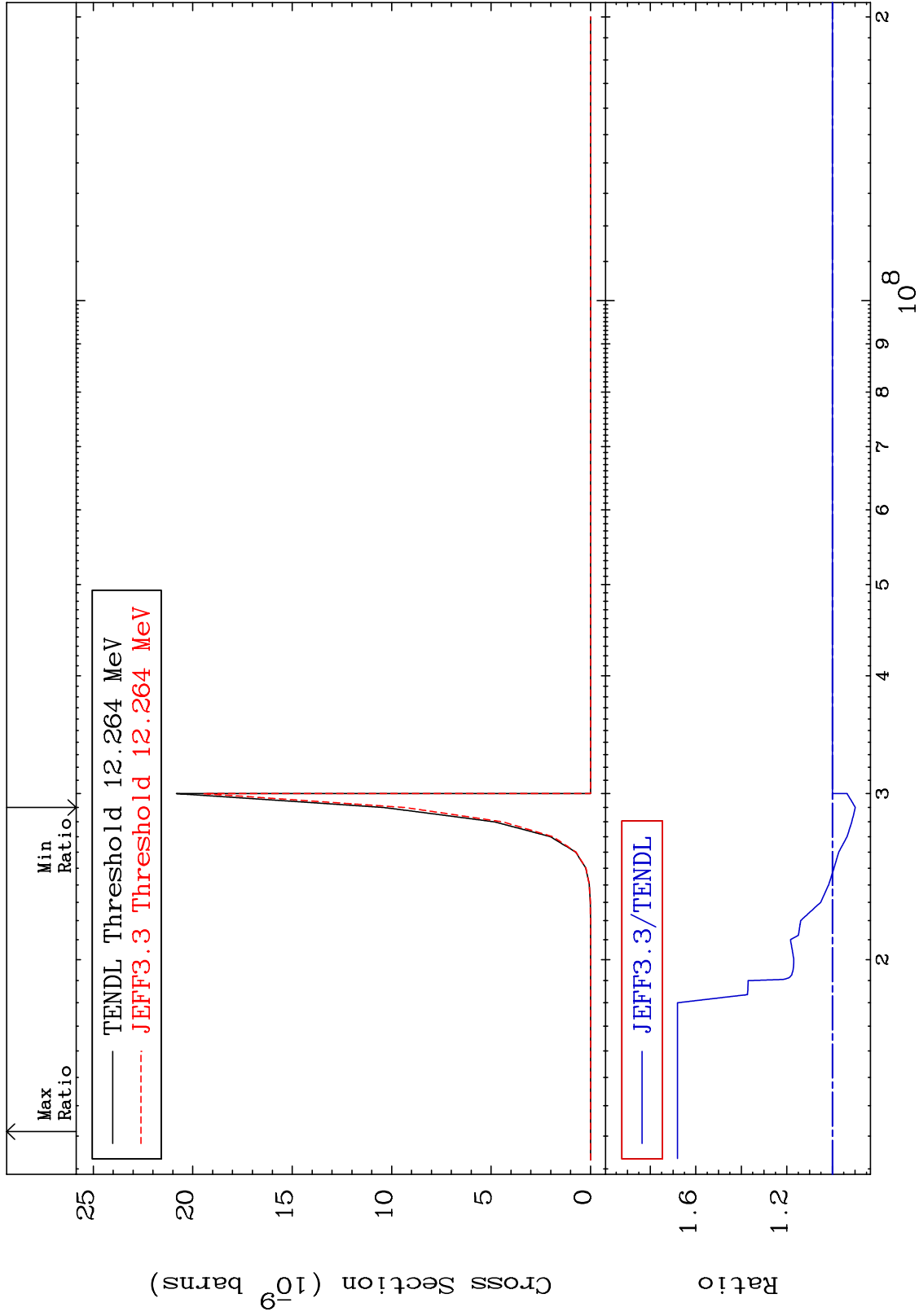
MAT 6034

(n,p) d

60-Nd-145

Cross Section

-10.08 To 68.02 %



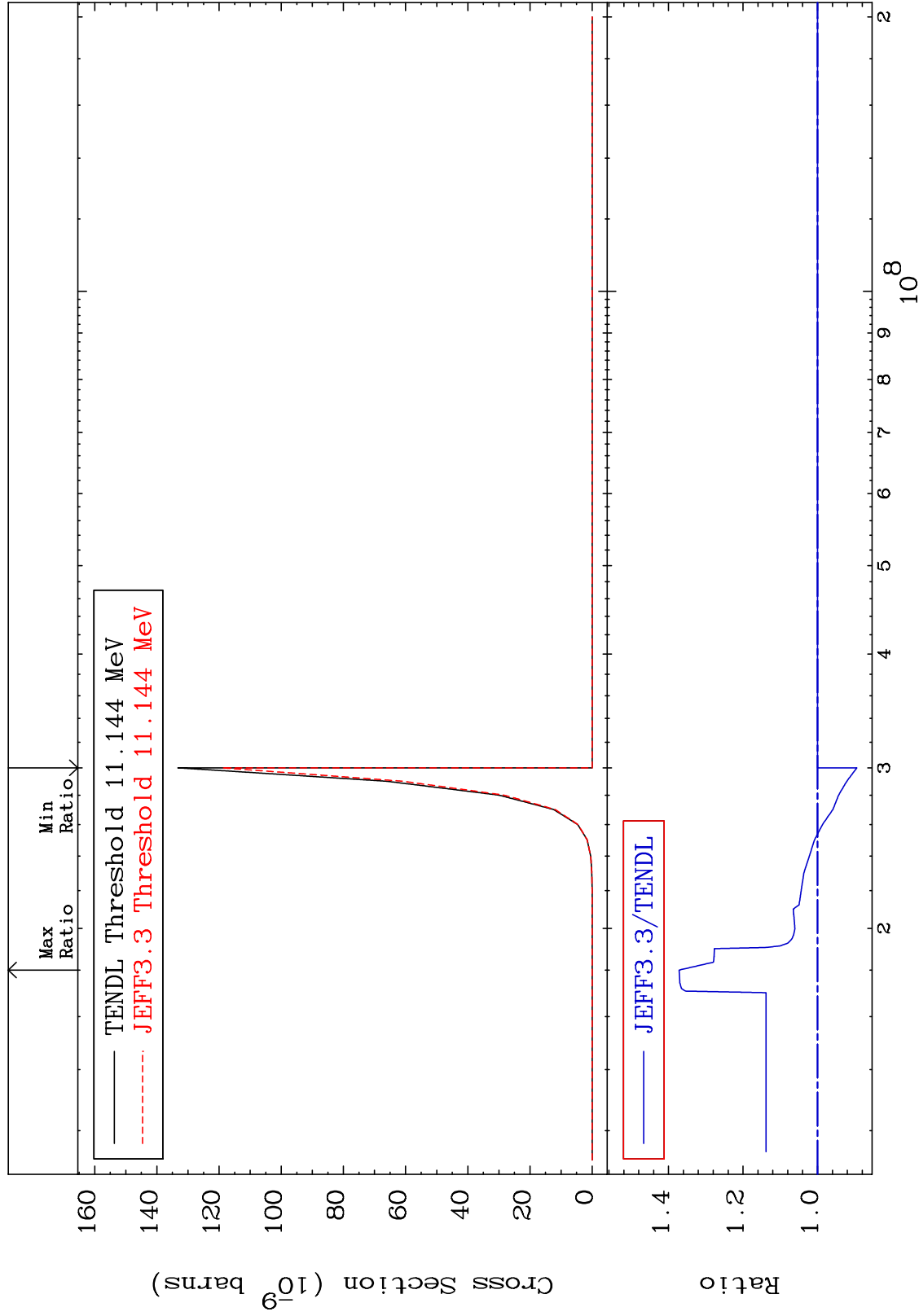
MAT 6034

(n,p) t

60-Nd-145

Cross Section

-10.57 To 37.14 %



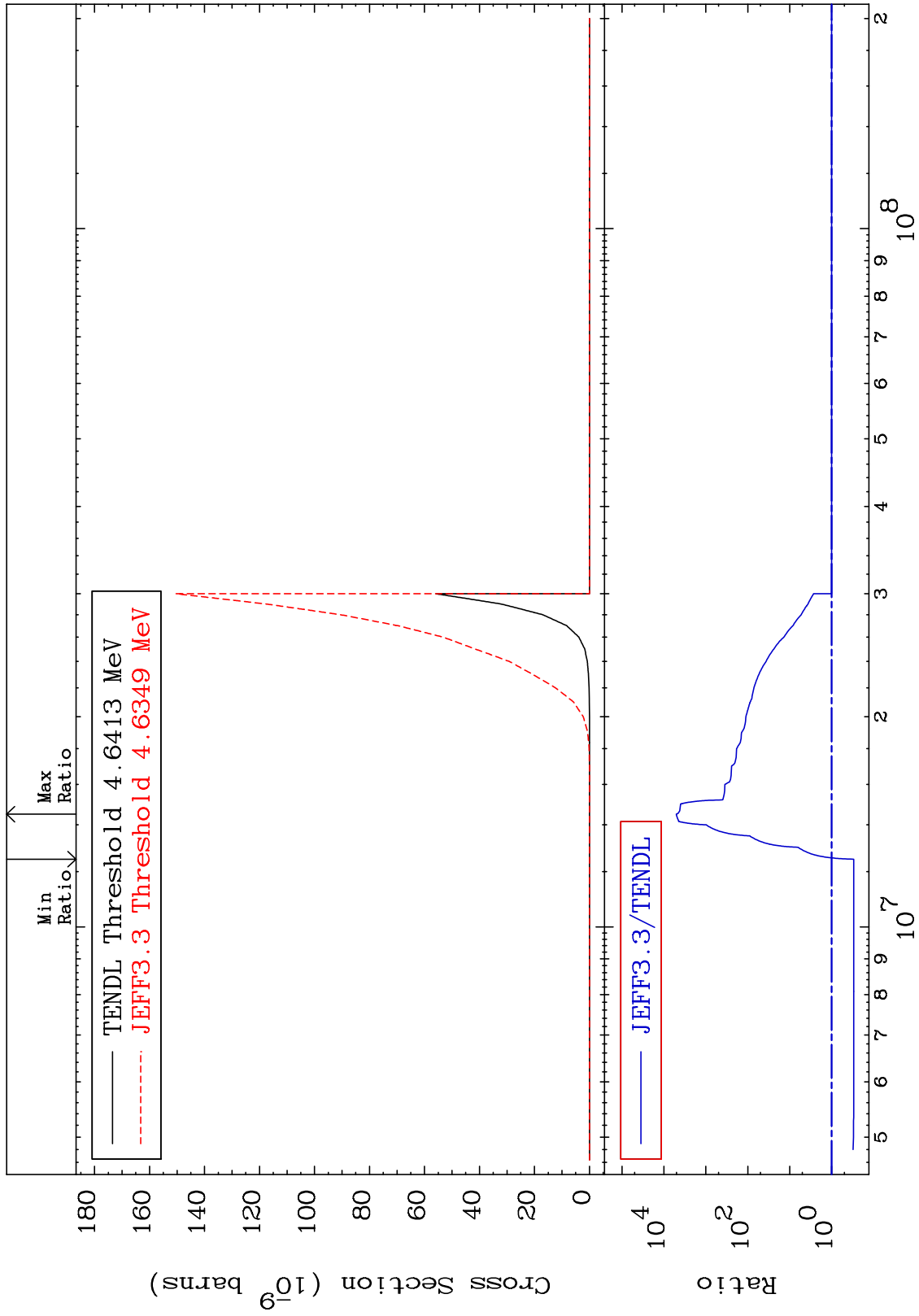
MAT 6034

(n,d) α

60-Nd-145

-70.30 To 9999. %

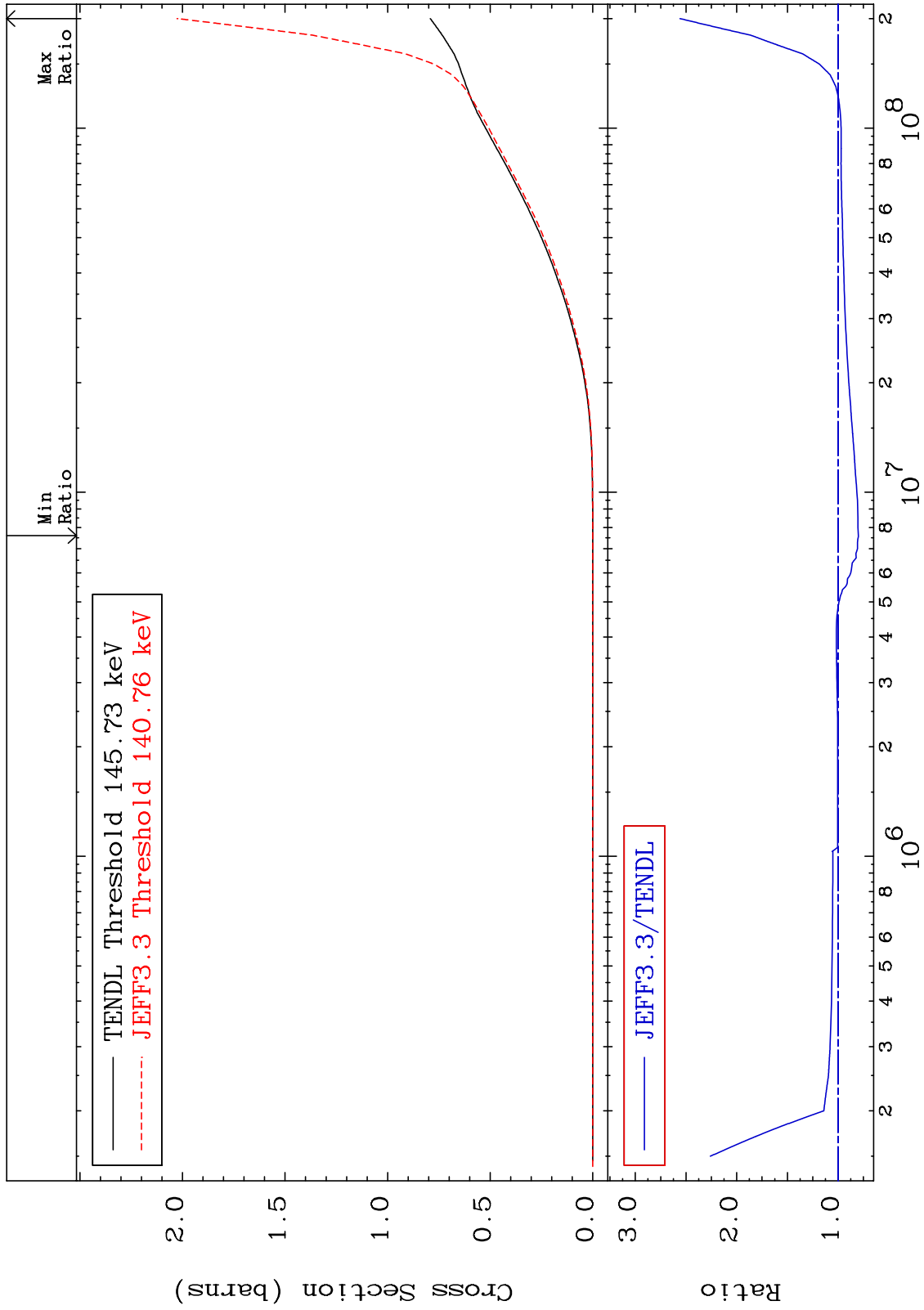
Cross Section



MAT 6034

Hydrogen Production
Cross Section

60-Nd-145
-20.03 To 155.9 %



62

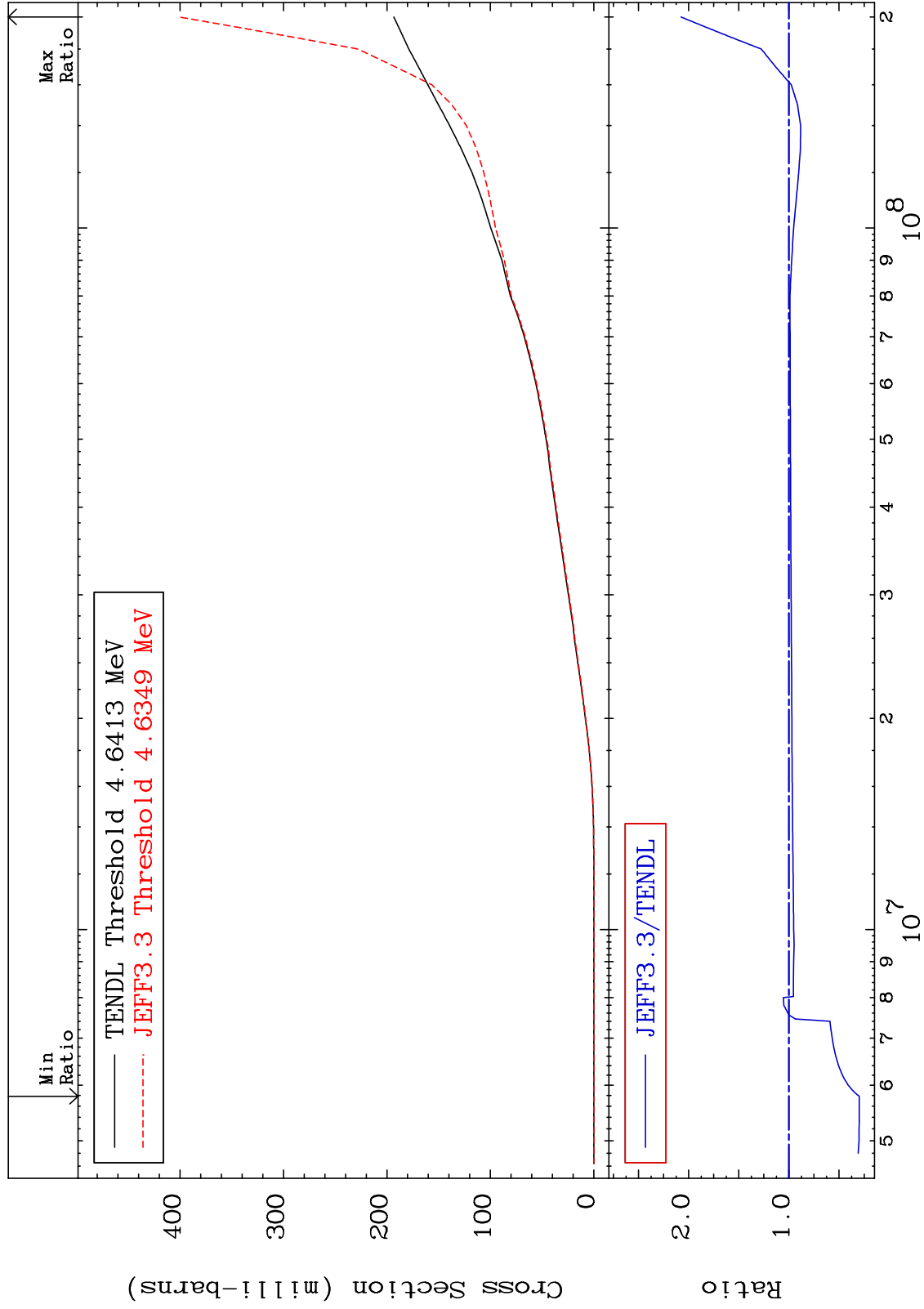
Incident Energy (eV)

60-Nd-145

MAT 6034

Deuterium Production
Cross Section

60-Nd-145
-70.16 To 107.6 %



63

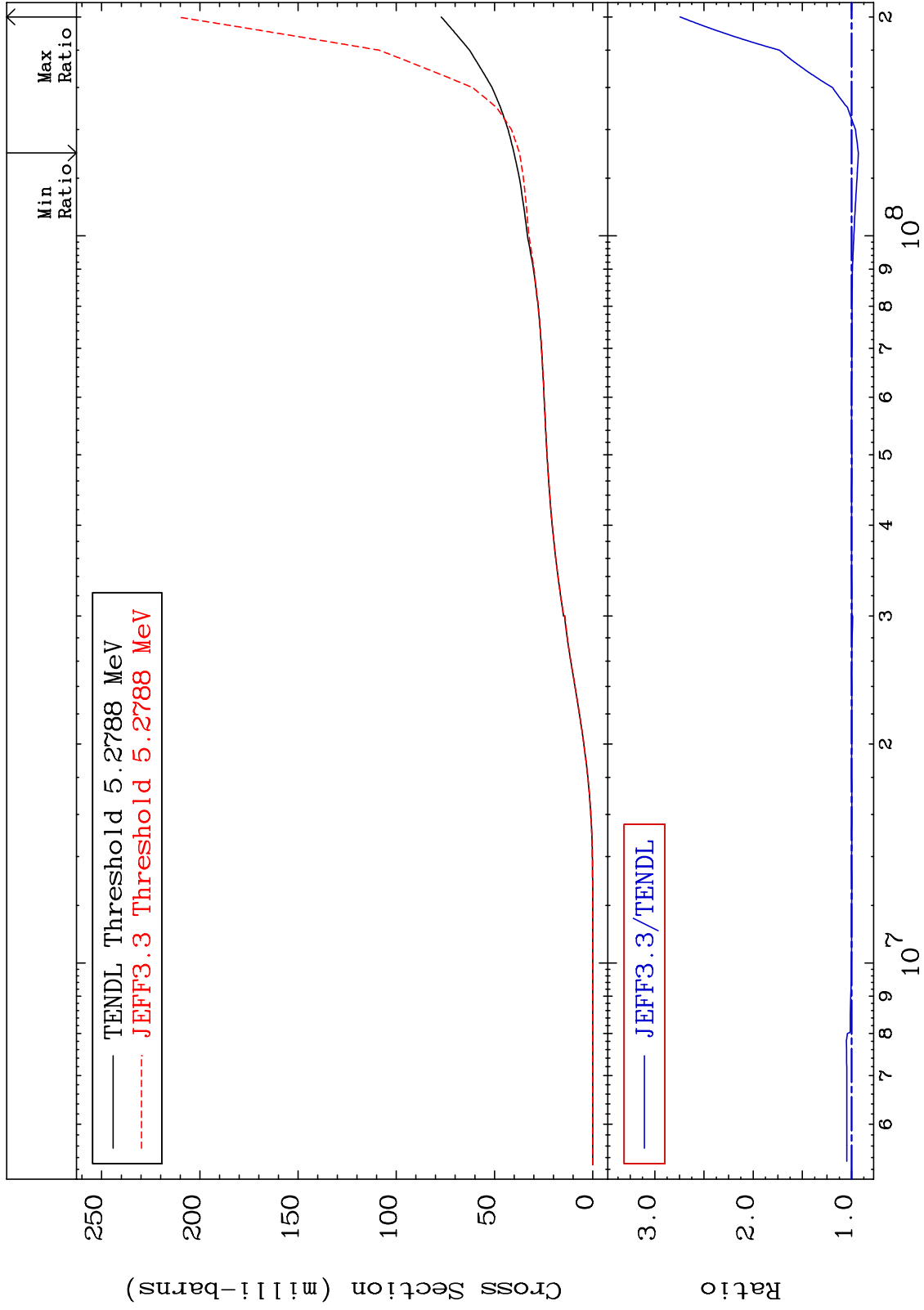
Incident Energy (eV)

60-Nd-145

MAT 6034

Tritium Production
Cross Section

60-Nd-145
-6.943 To 174.4 %



64

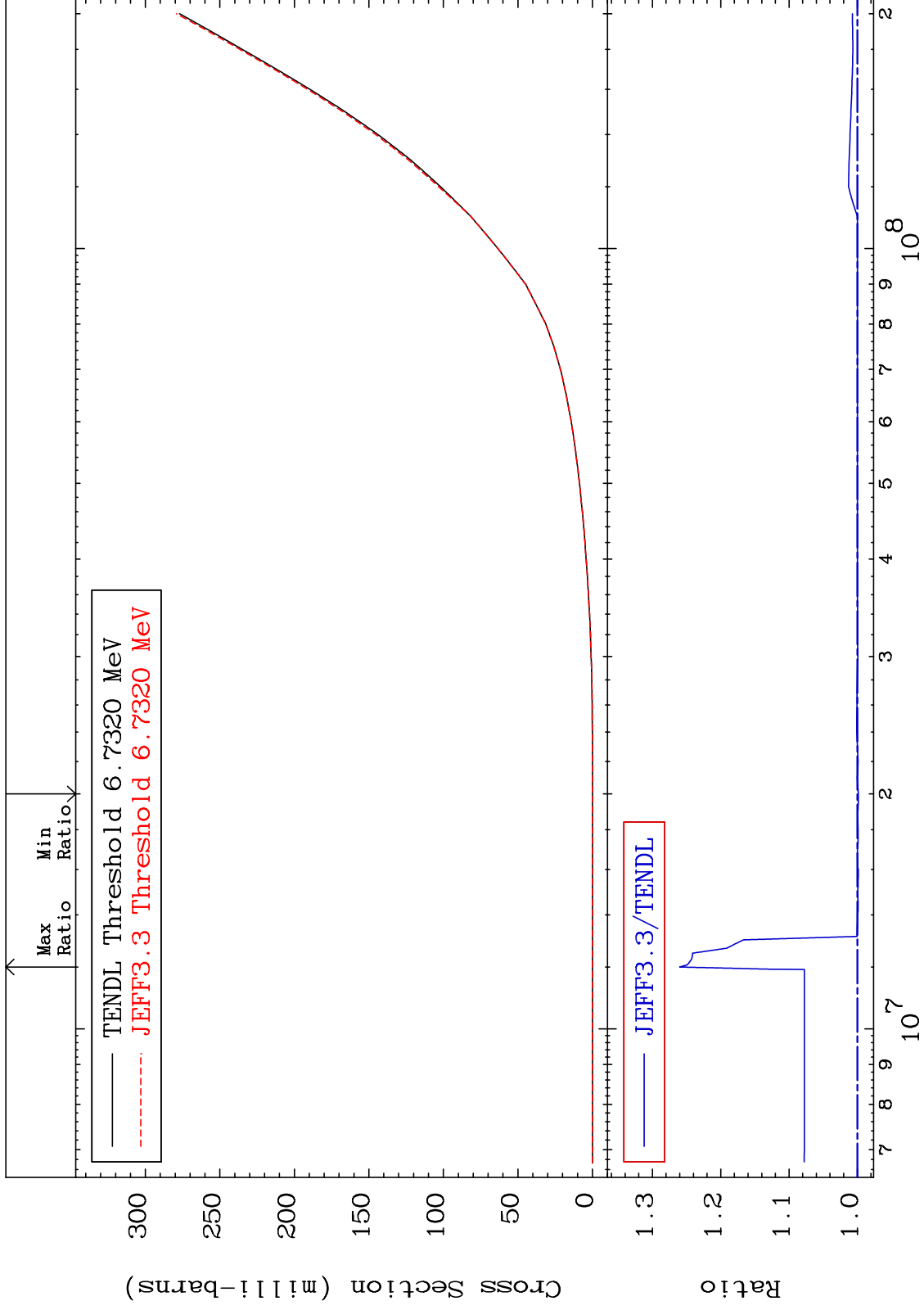
Incident Energy (eV)

60-Nd-145

MAT 6034

He-3 Production
Cross Section

60-Nd-145
-0.145 To 25.99 %



65

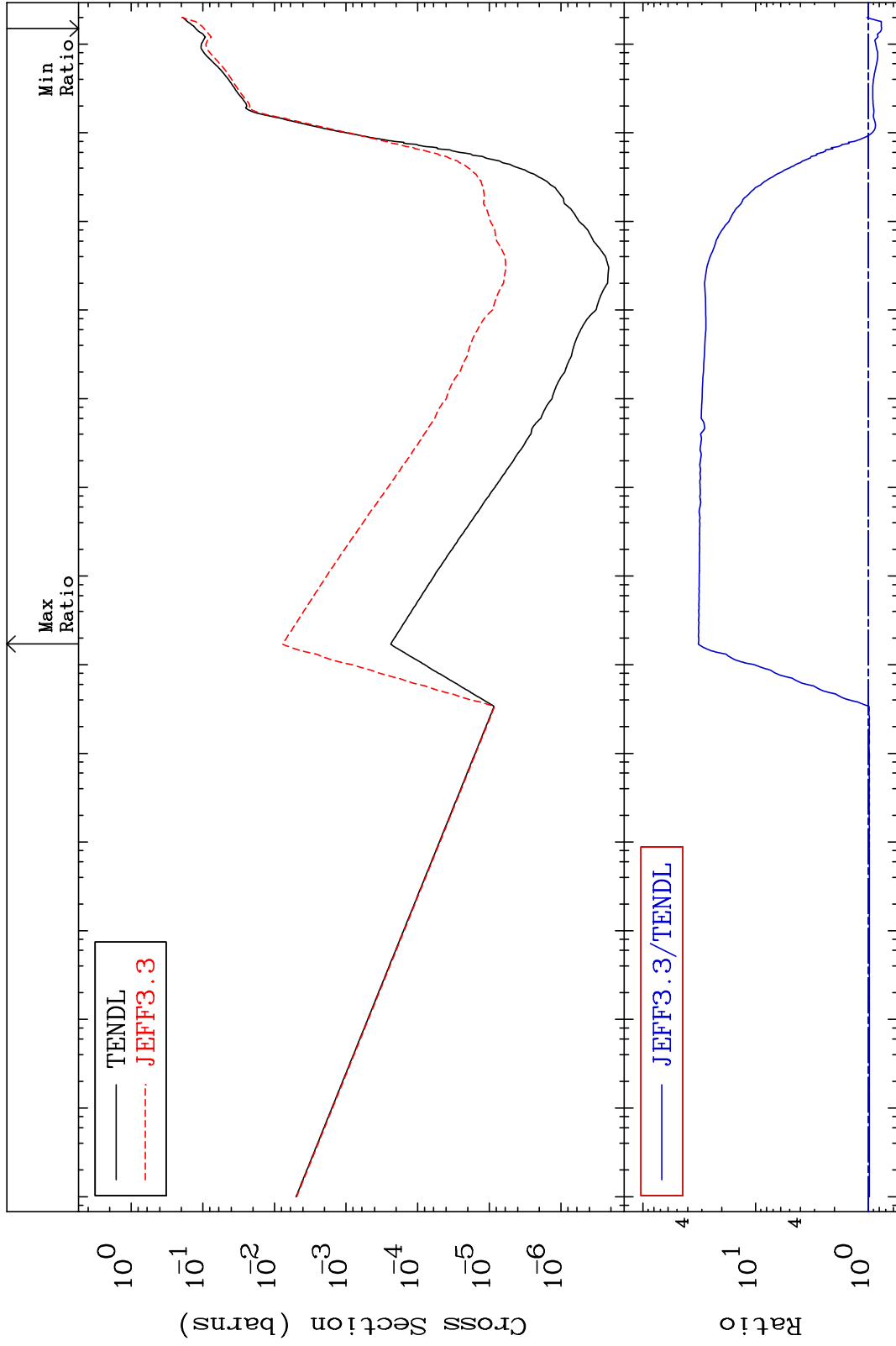
Incident Energy (eV)

60-Nd-145

MAT 6034

He-4 Production
Cross Section

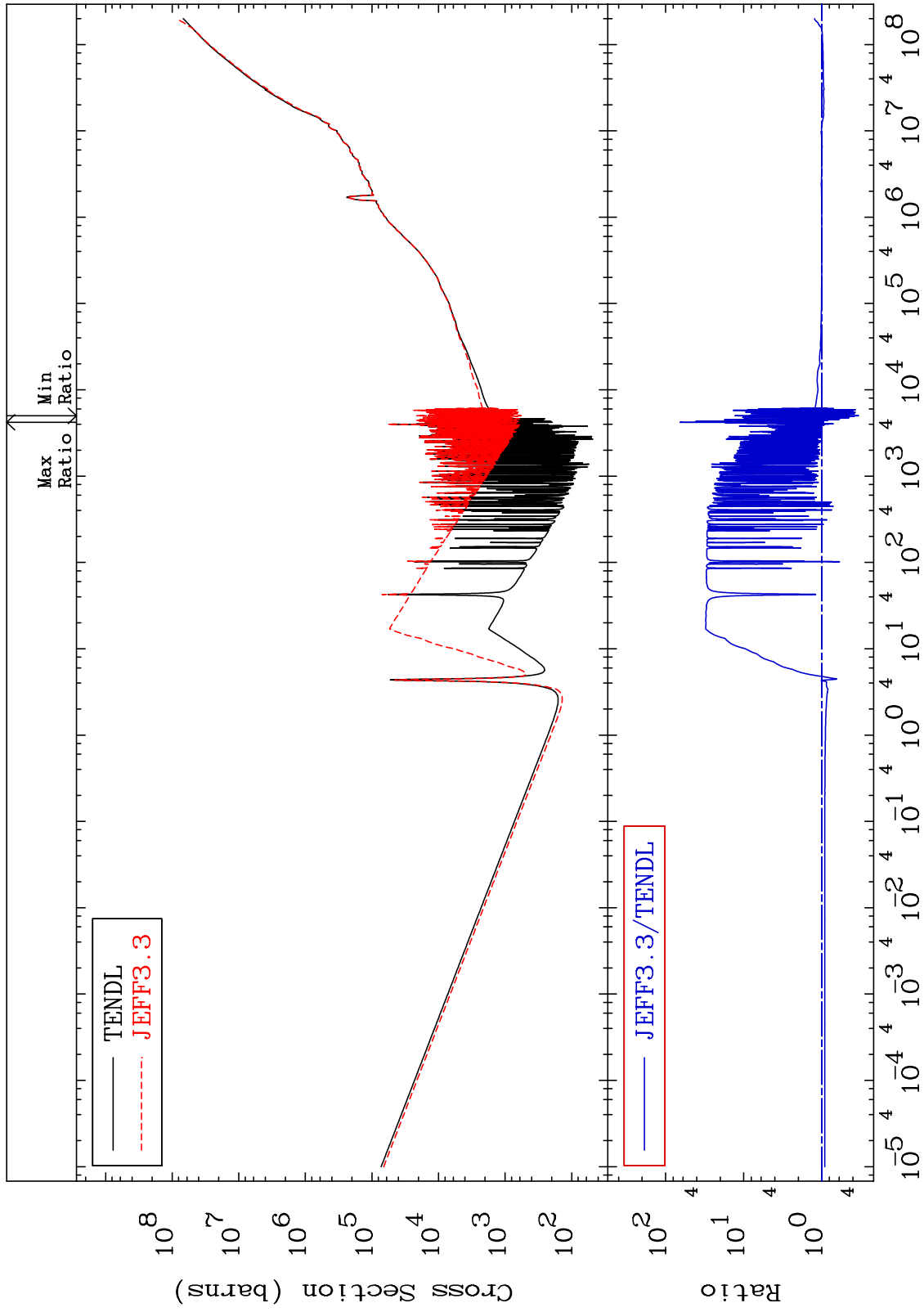
60-Nd-145
-23.65 To 3127. %



MAT 6034

Kerma total (eV-barns)
Cross Section

60-Nd-145
-65.98 To 6436. %



67

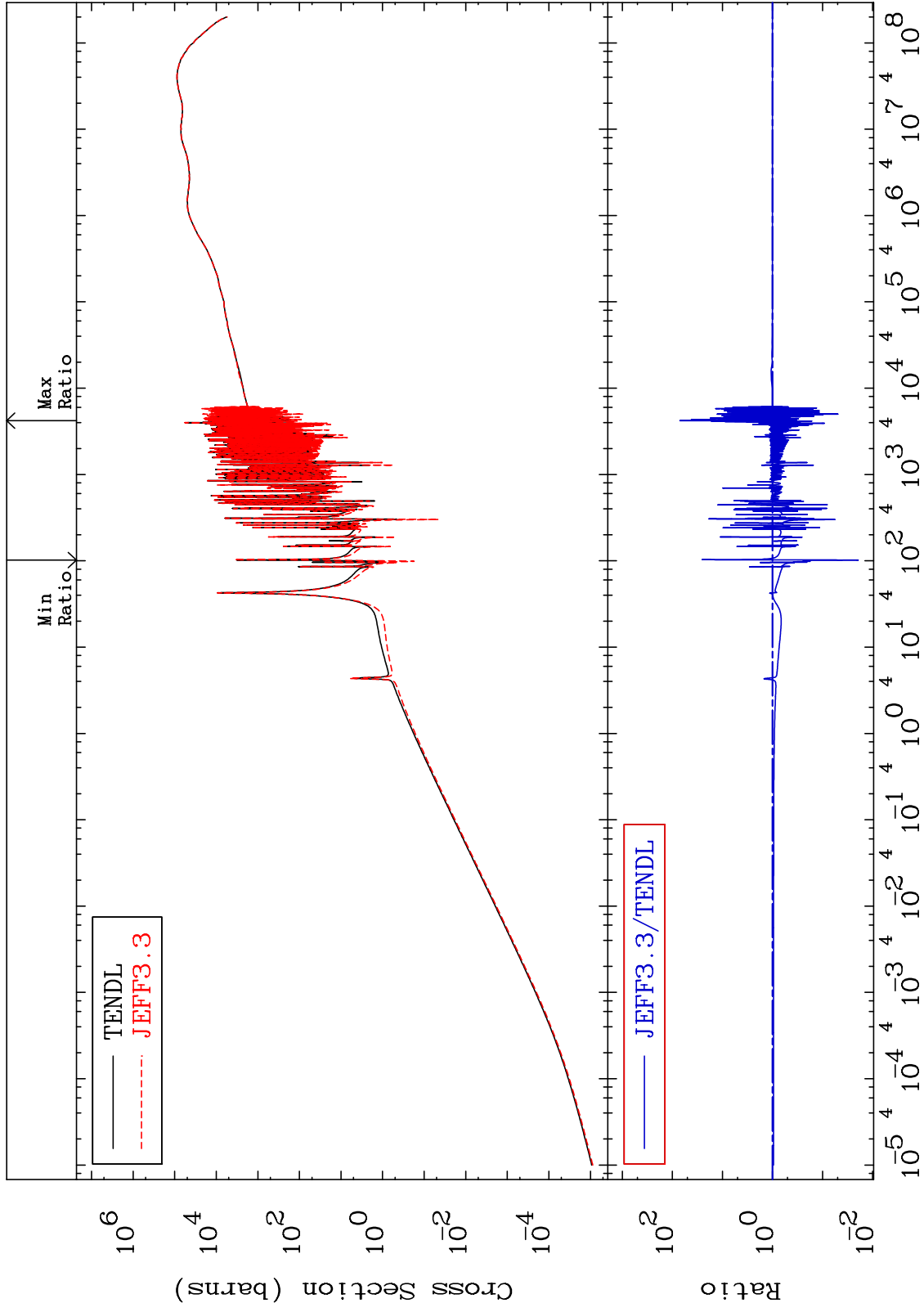
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma elastic
Cross Section

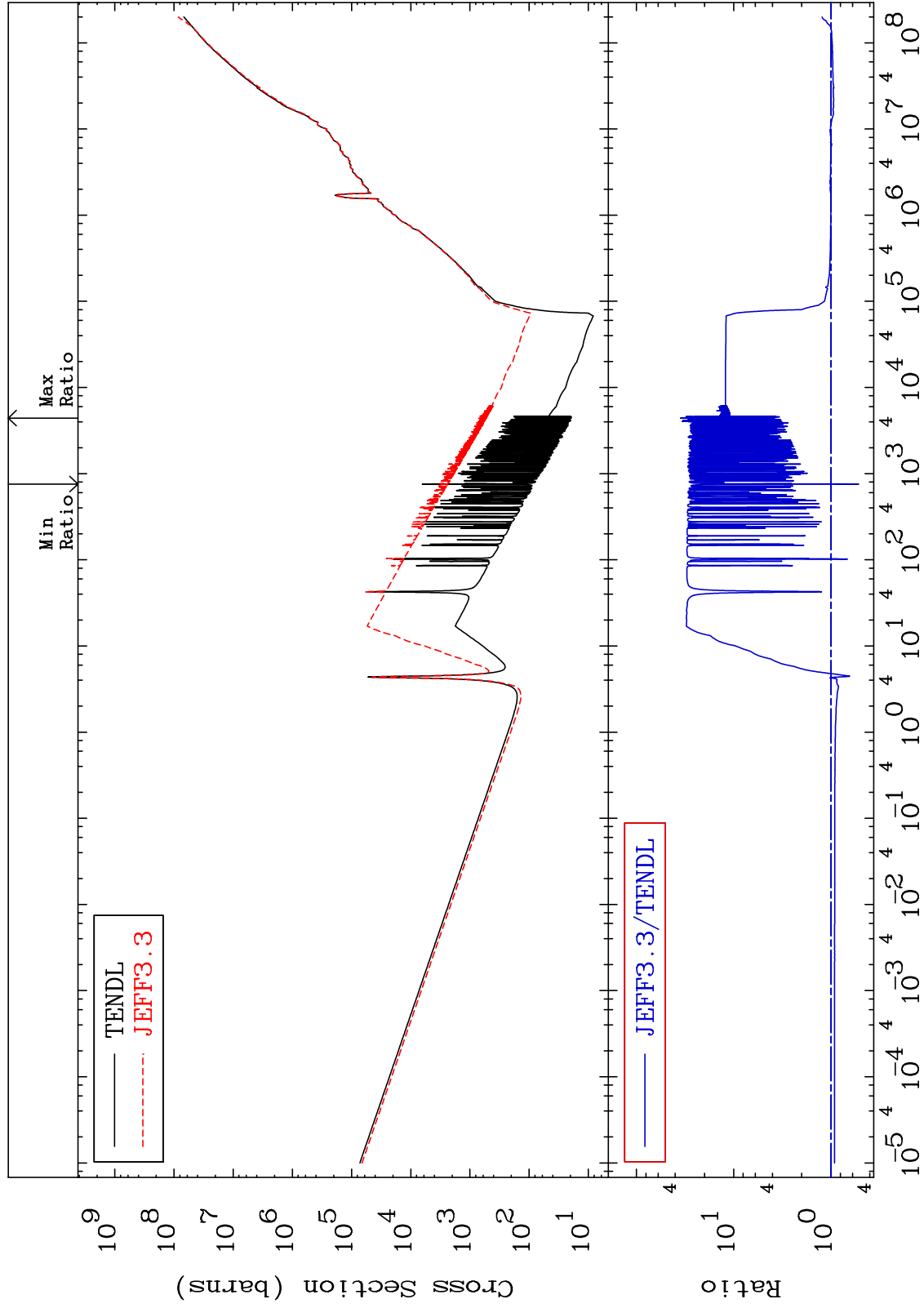
60-Nd-145
-98.08 To 6929. %



MAT 6034

Kerma non-elastic (all but mt2)
Cross Section

60-Nd-145
-47.86 To 3432. %



69

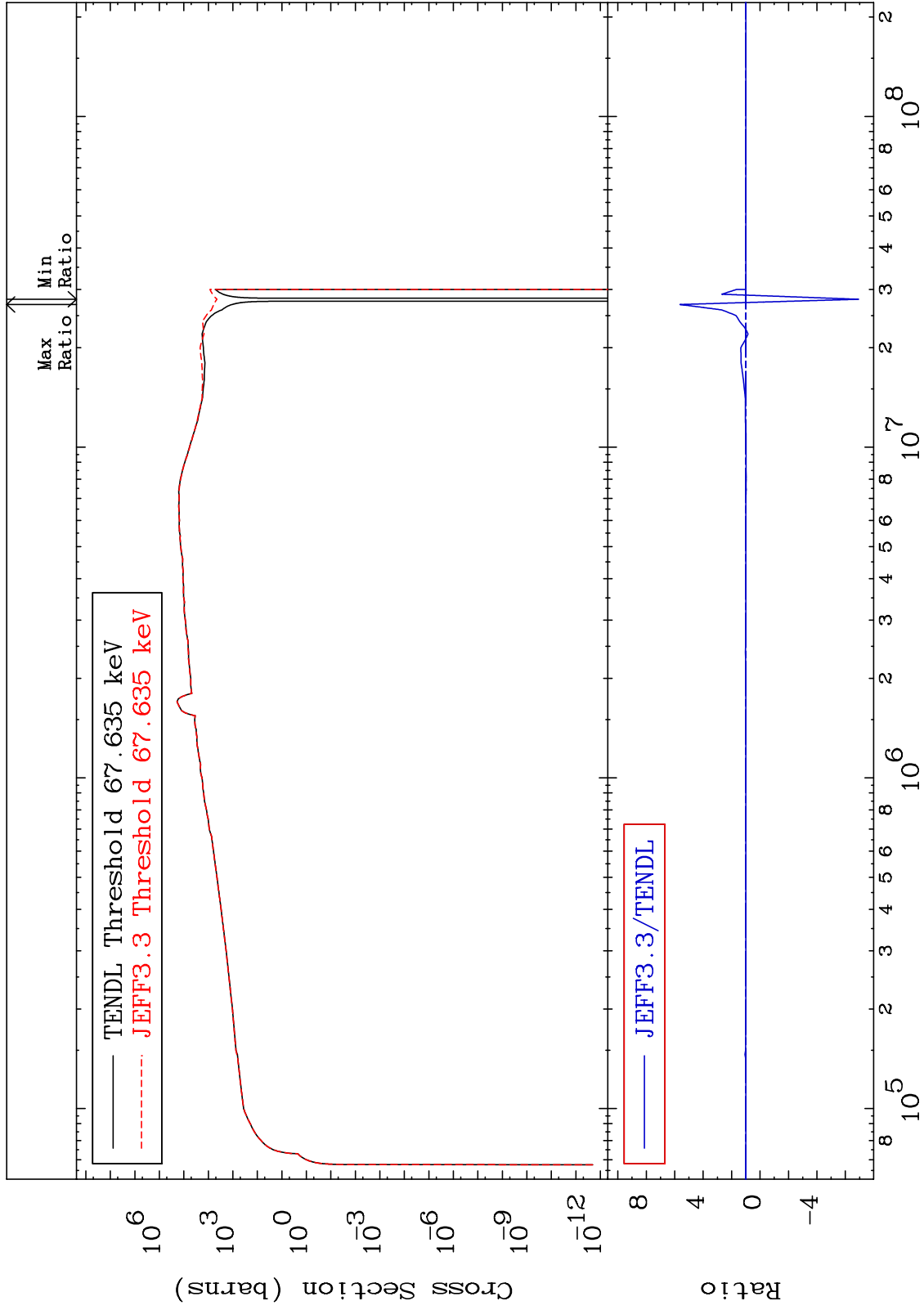
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma inelastic (mt51-91)
Cross Section

60-Nd-145
-791.7 To 462.7 %



70

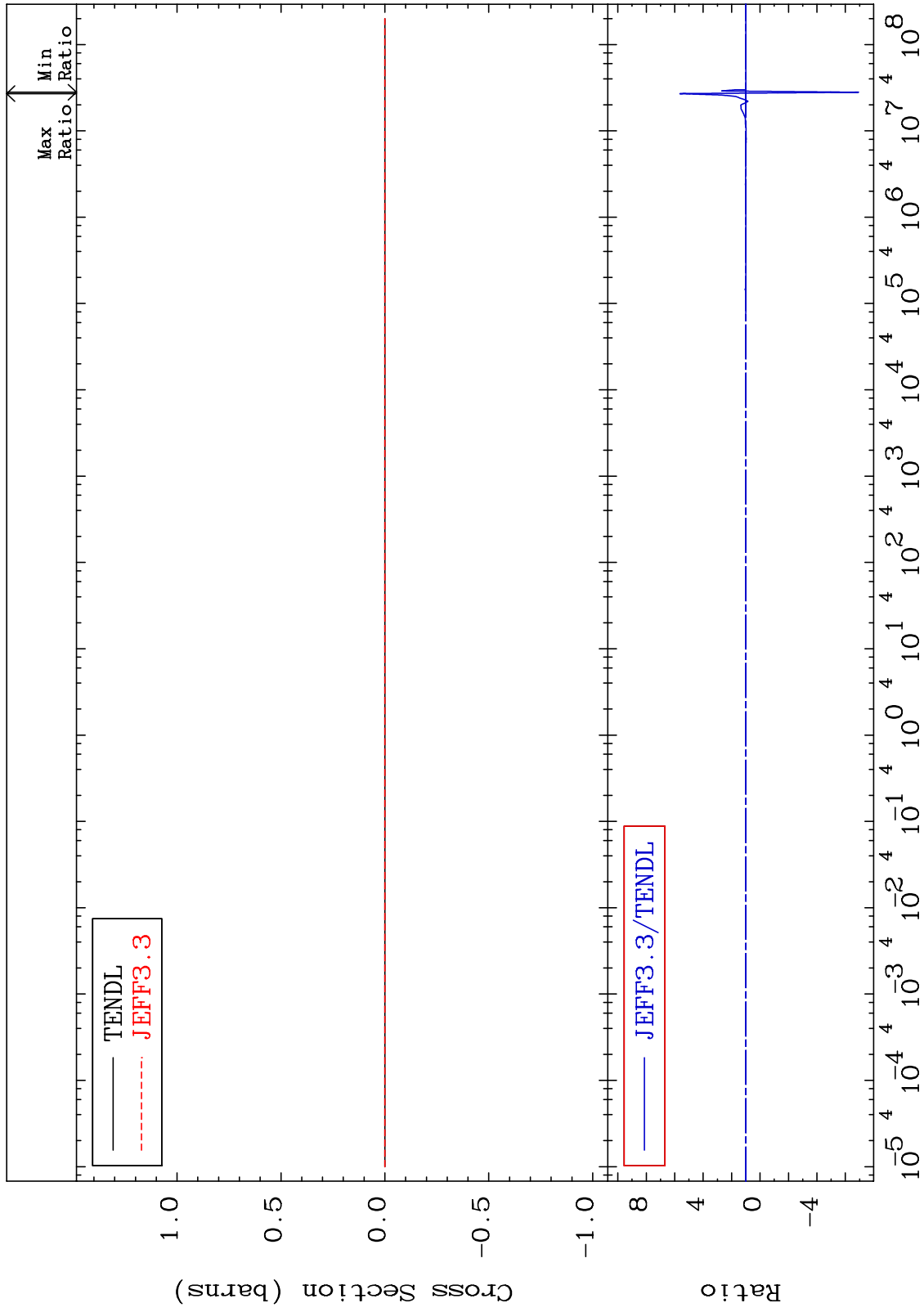
Incident Energy (eV)

60-Nd-145

MAT 6034

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

60-Nd-145
-791.7 To 462.7 %



71

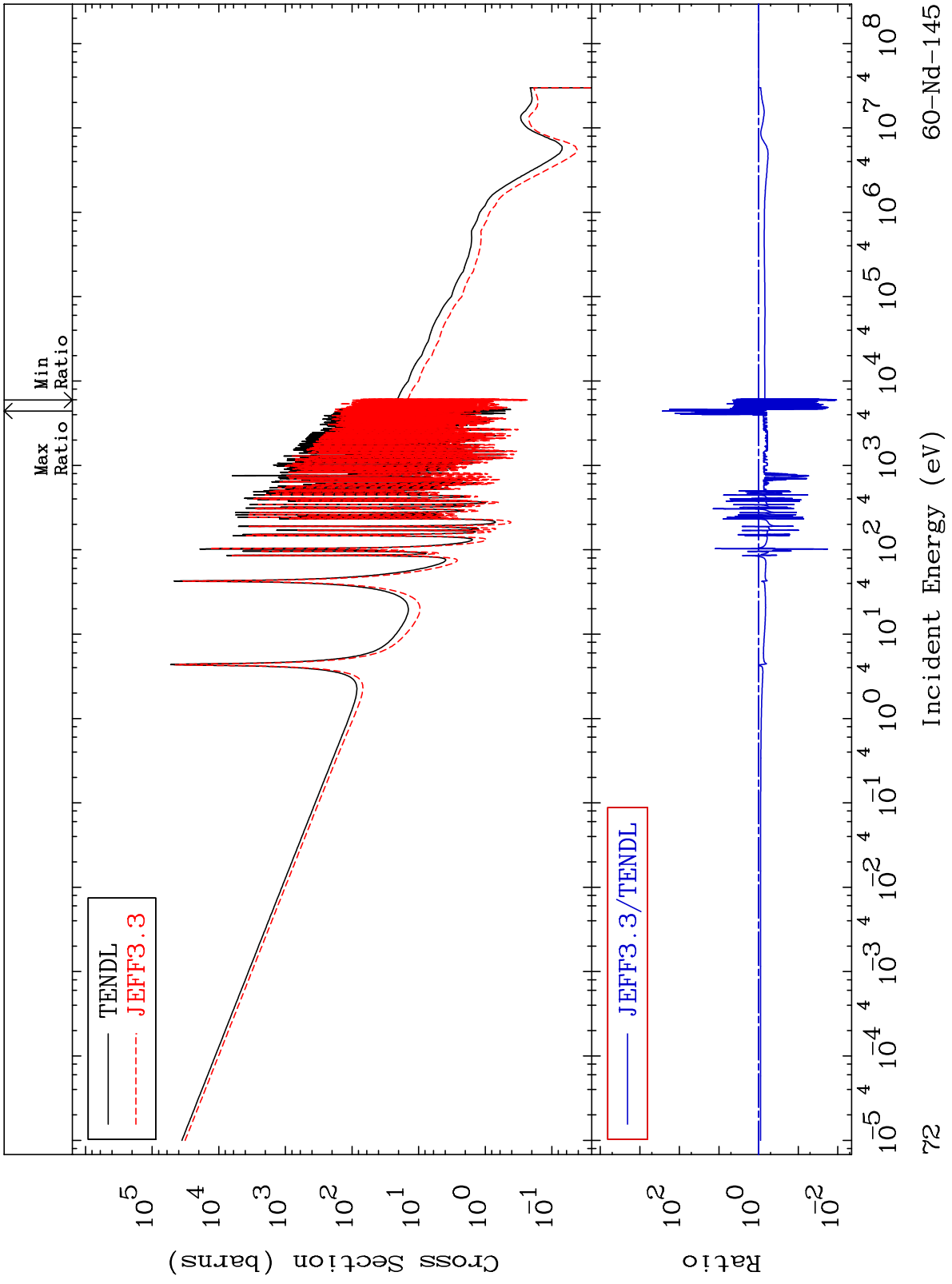
Incident Energy (eV)

60-Nd-145

MAT 6034

Kerma capture (mt102)
Cross Section

60-Nd-145
-98.93 To 9999. %



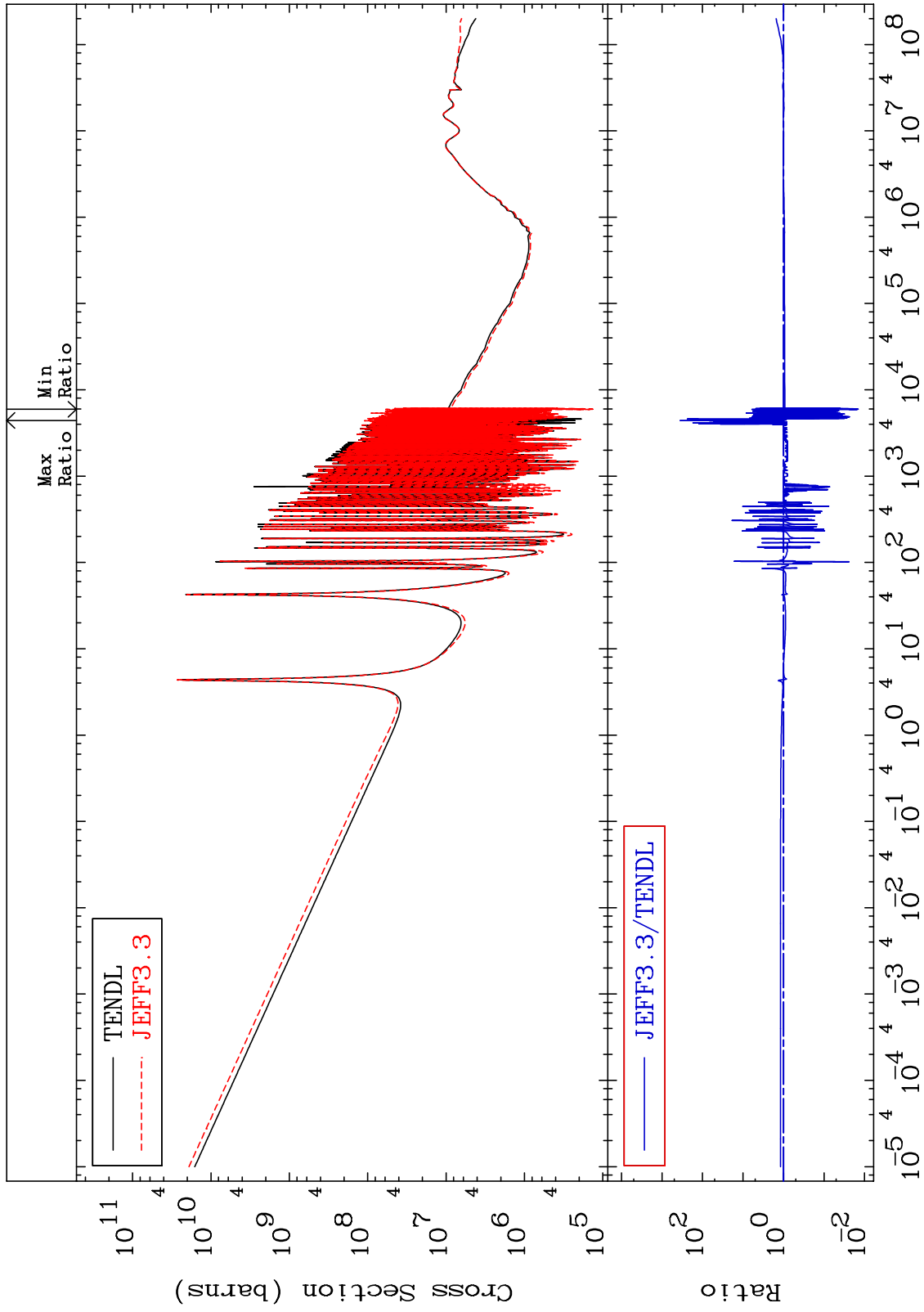
72

60-Nd-145

MAT 6034

Total photon (eV-barns)
Cross Section

60-Nd-145
-98.58 To 9999. %



73

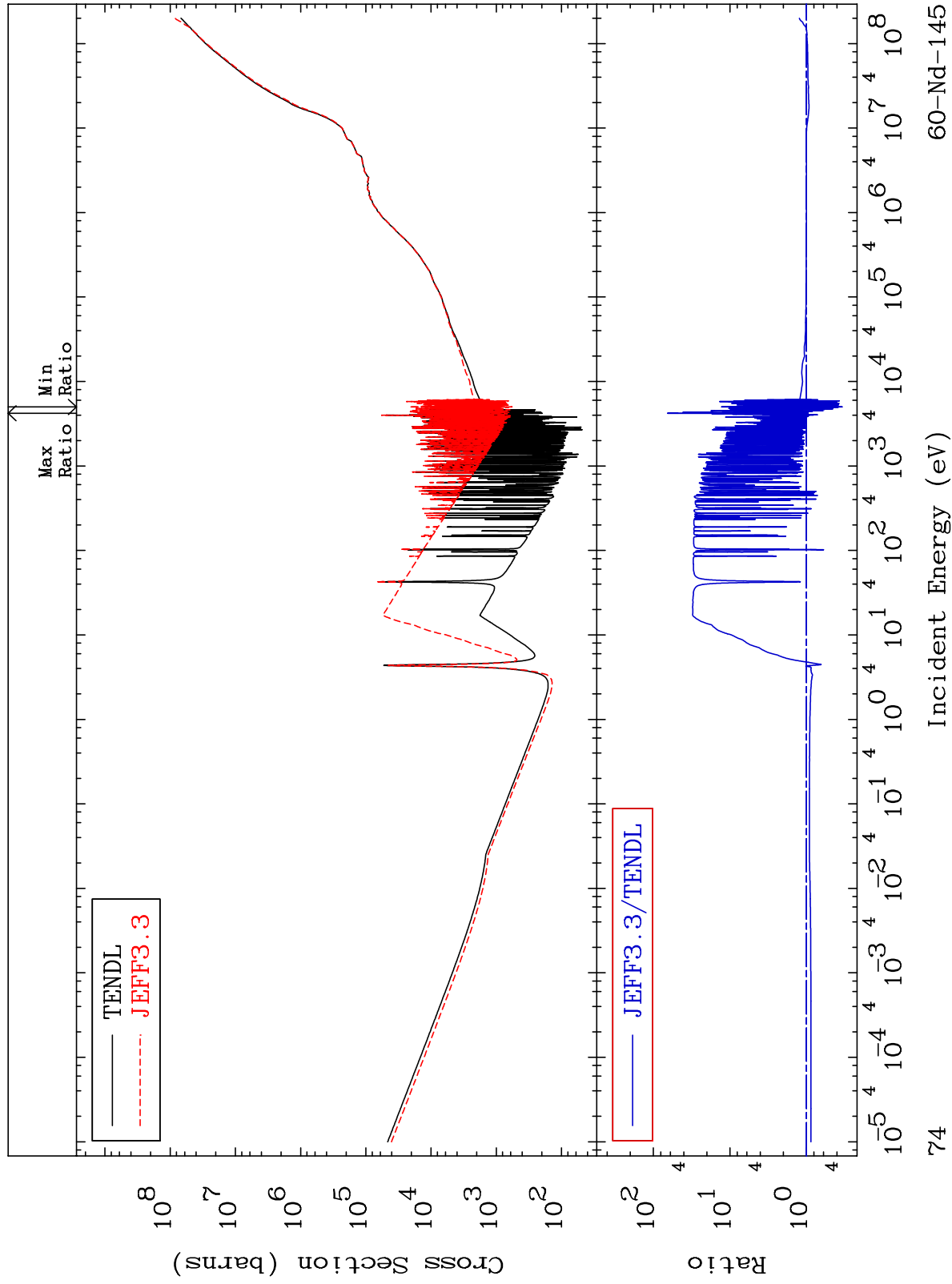
Incident Energy (eV)

60-Nd-145

MAT 6034

Total kinematic kerma (high limit)
Cross Section

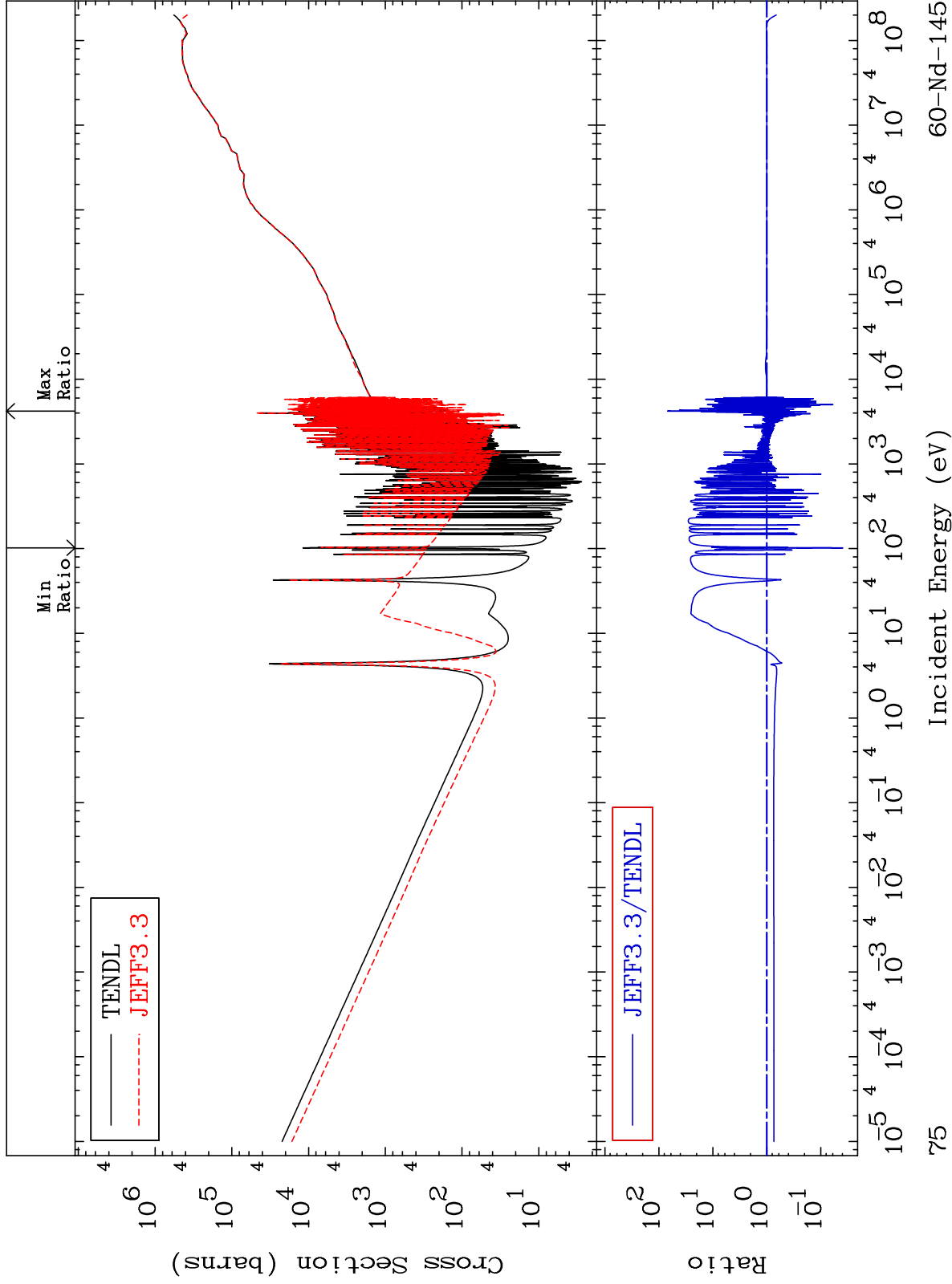
60-Nd-145
-65.80 To 6434. %



MAT 6034

Dpa total (eV-barns)
Cross Section

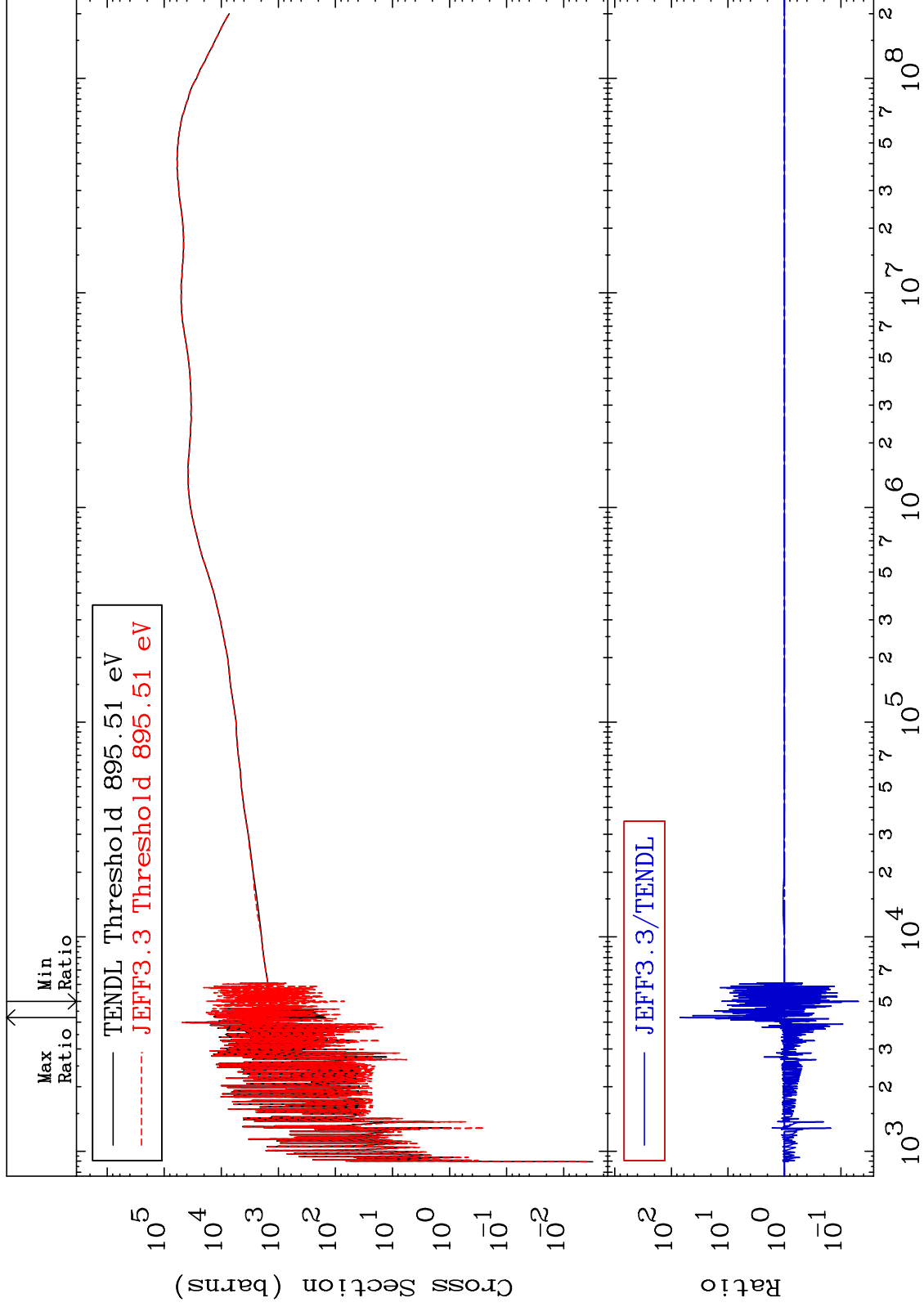
60-Nd-145
-96.06 To 6827. %



MAT 6034

Dpa elastic (mt2)
Cross Section

60-Nd-145
-95.08 To 6929. %



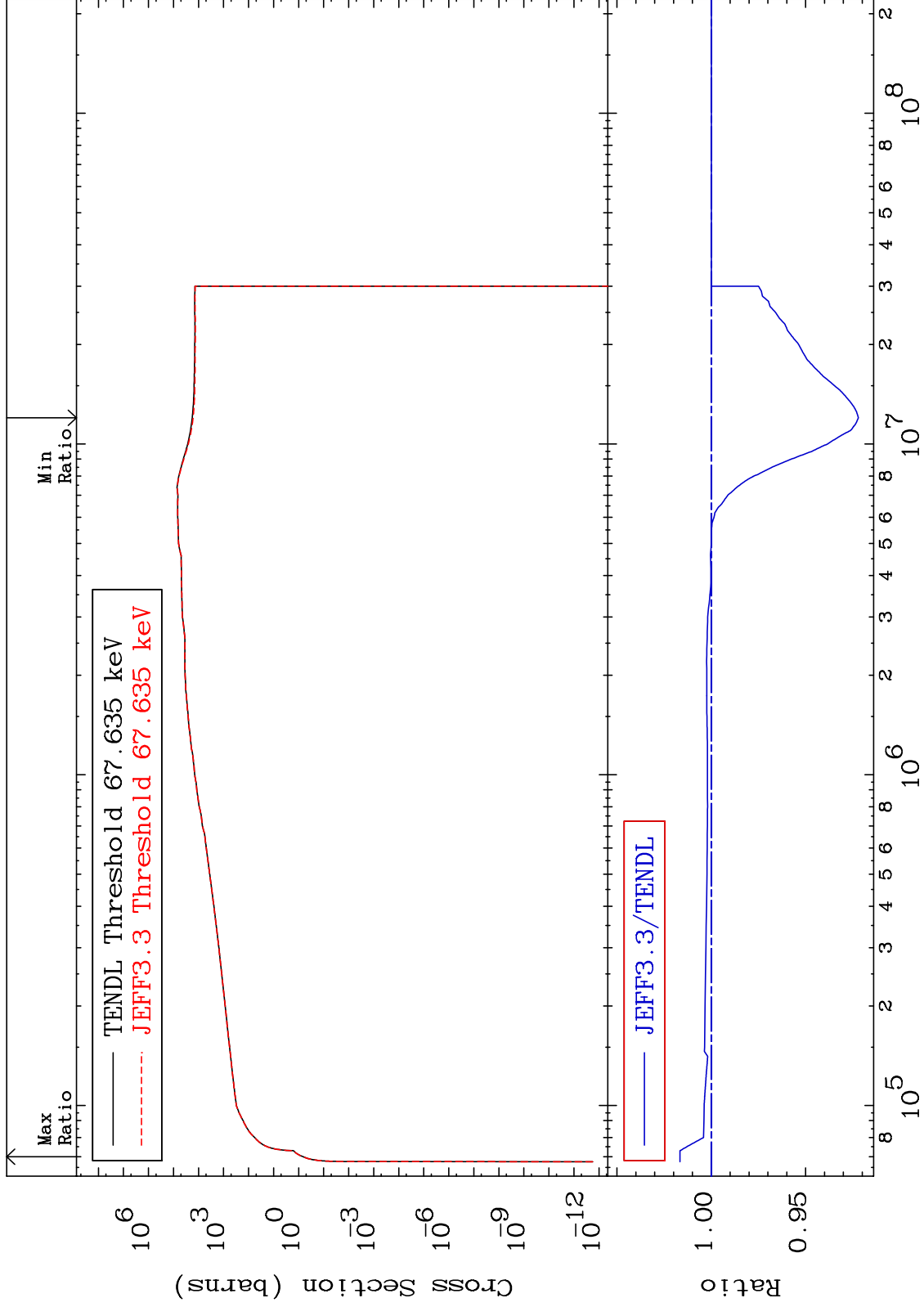
76

60-Nd-145

MAT 6034

Dpa inelastic (mt51-91)
Cross Section

60-Nd-145
-7.795 To 1.657 %



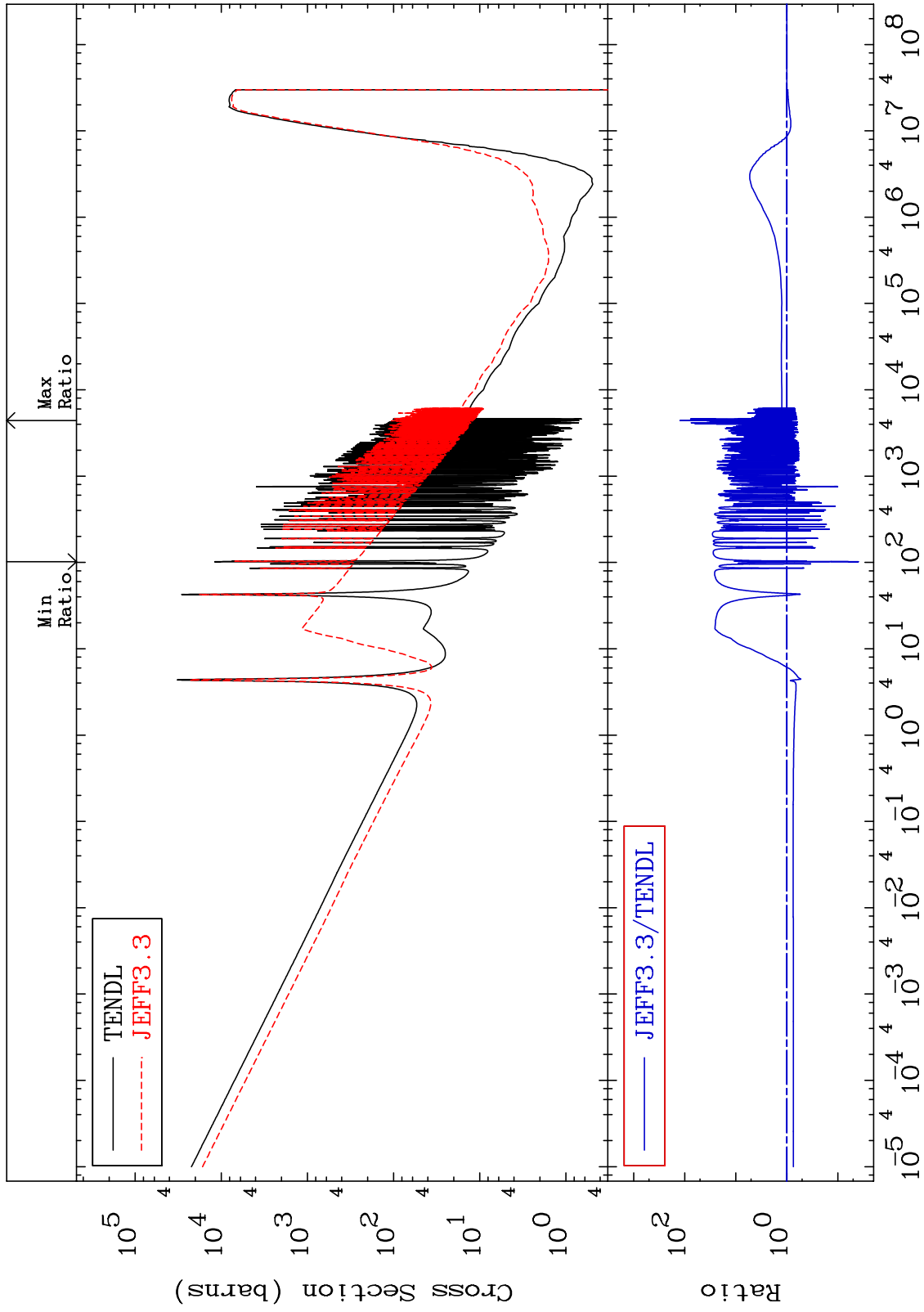
77

60-Nd-145

MAT 6034

Dpa disappearance (mt102 -120)
Cross Section

60-Nd-145
-96.06 To 9999. %



78

Incident Energy (eV)

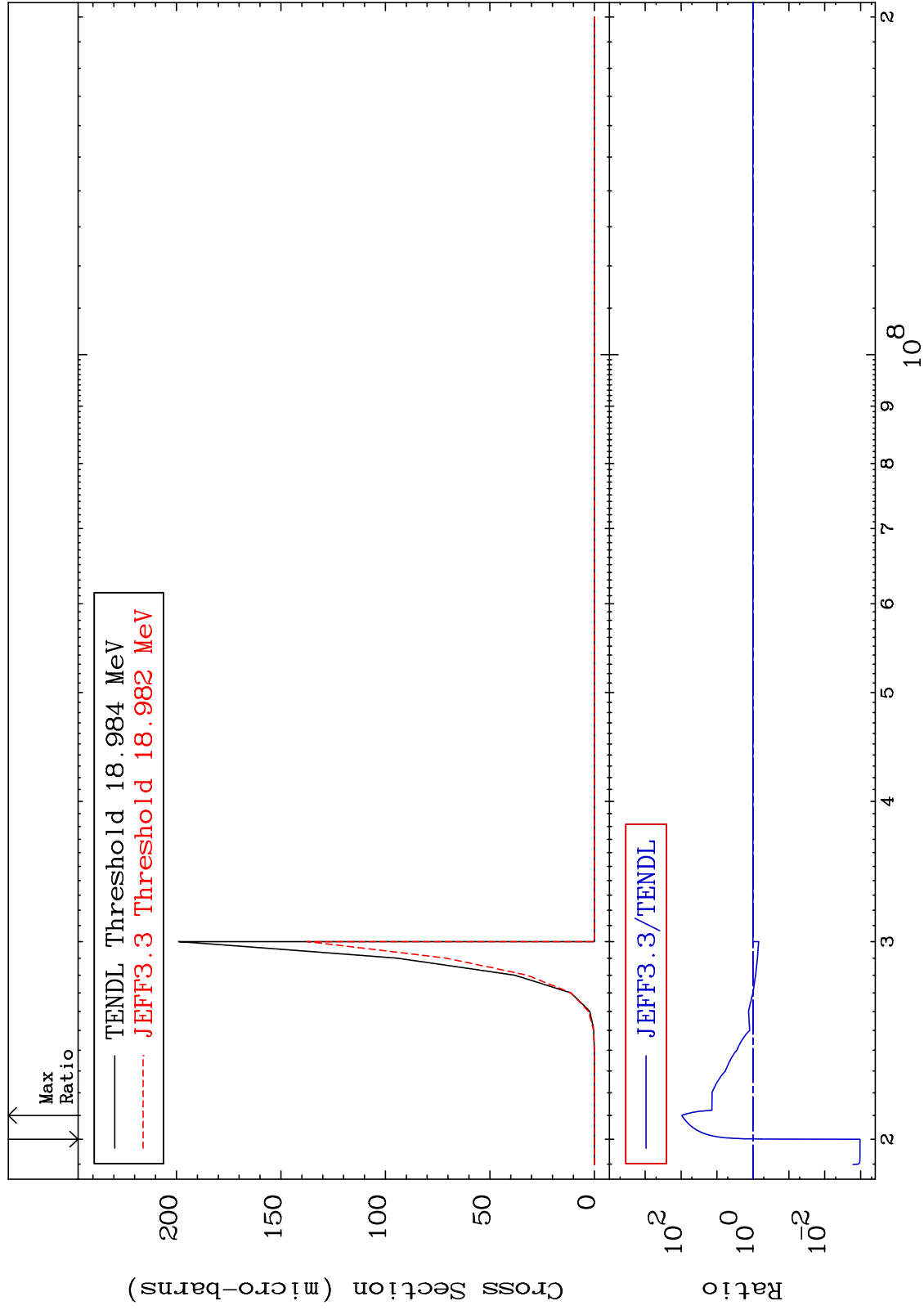
60-Nd-145

MAT 6034

(n,2n) d:59-Pr-142g

60-Nd-145

Radionuclide Production Cross Section -99.90 To 9535. %



79

Incident Energy (eV)

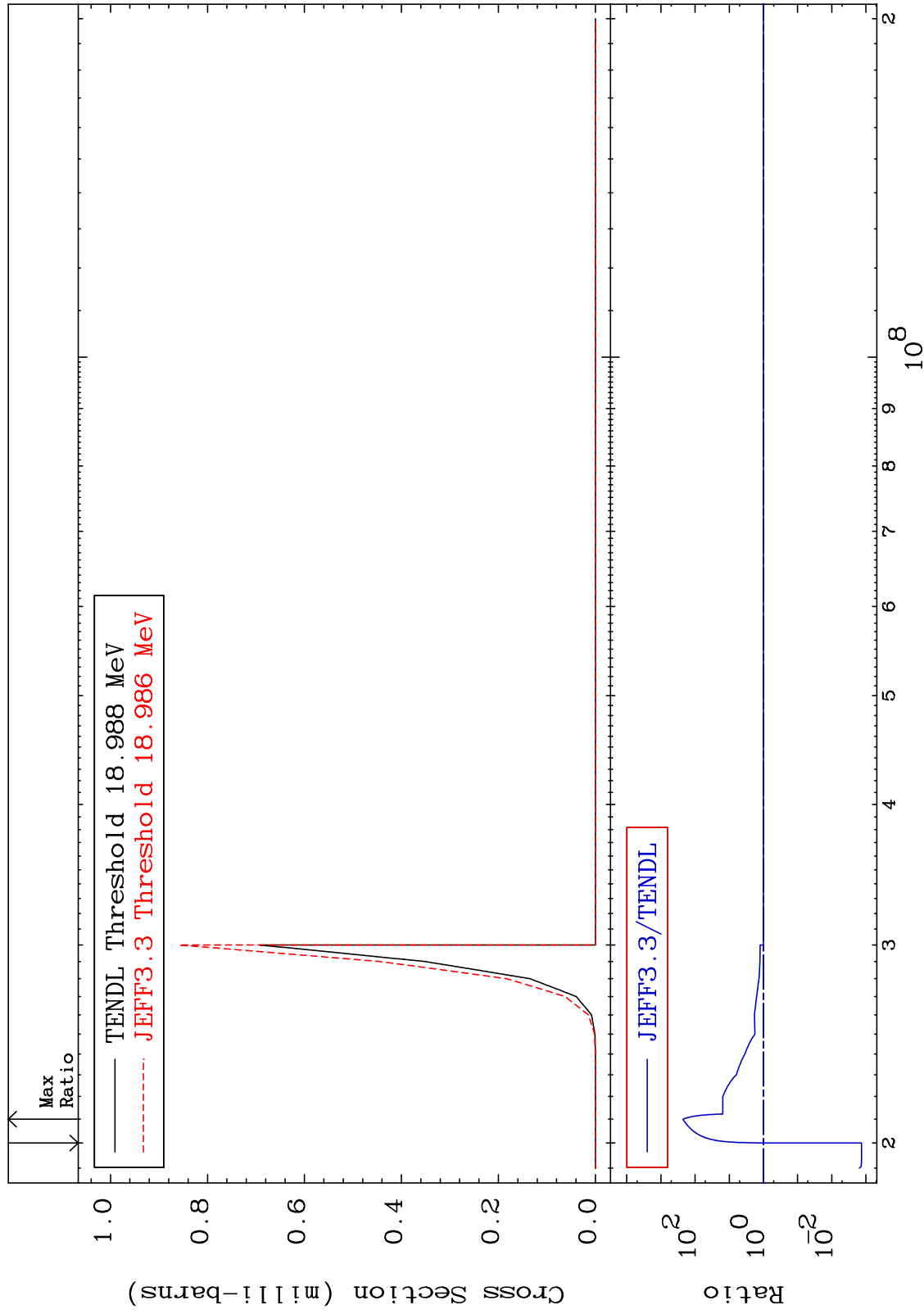
60-Nd-145

MAT 6034

(n,2n) d:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section -99.87 To 9999. %



80

Incident Energy (eV)

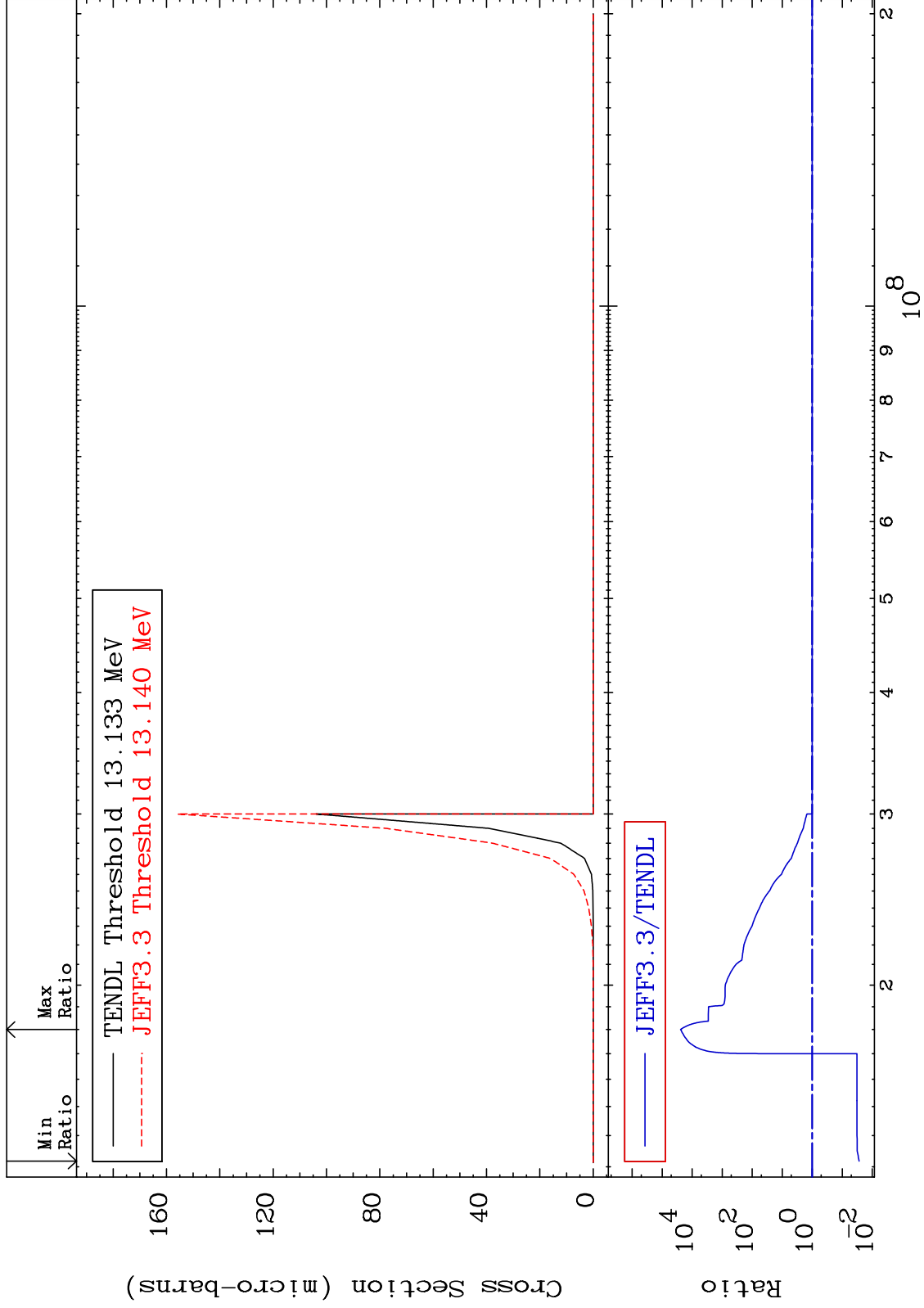
60-Nd-145

MAT 6034

(n,3n) α :58-Ce-139g

60-Nd-145

Radionuclide Production Cross Section -97.28 To 9999. %

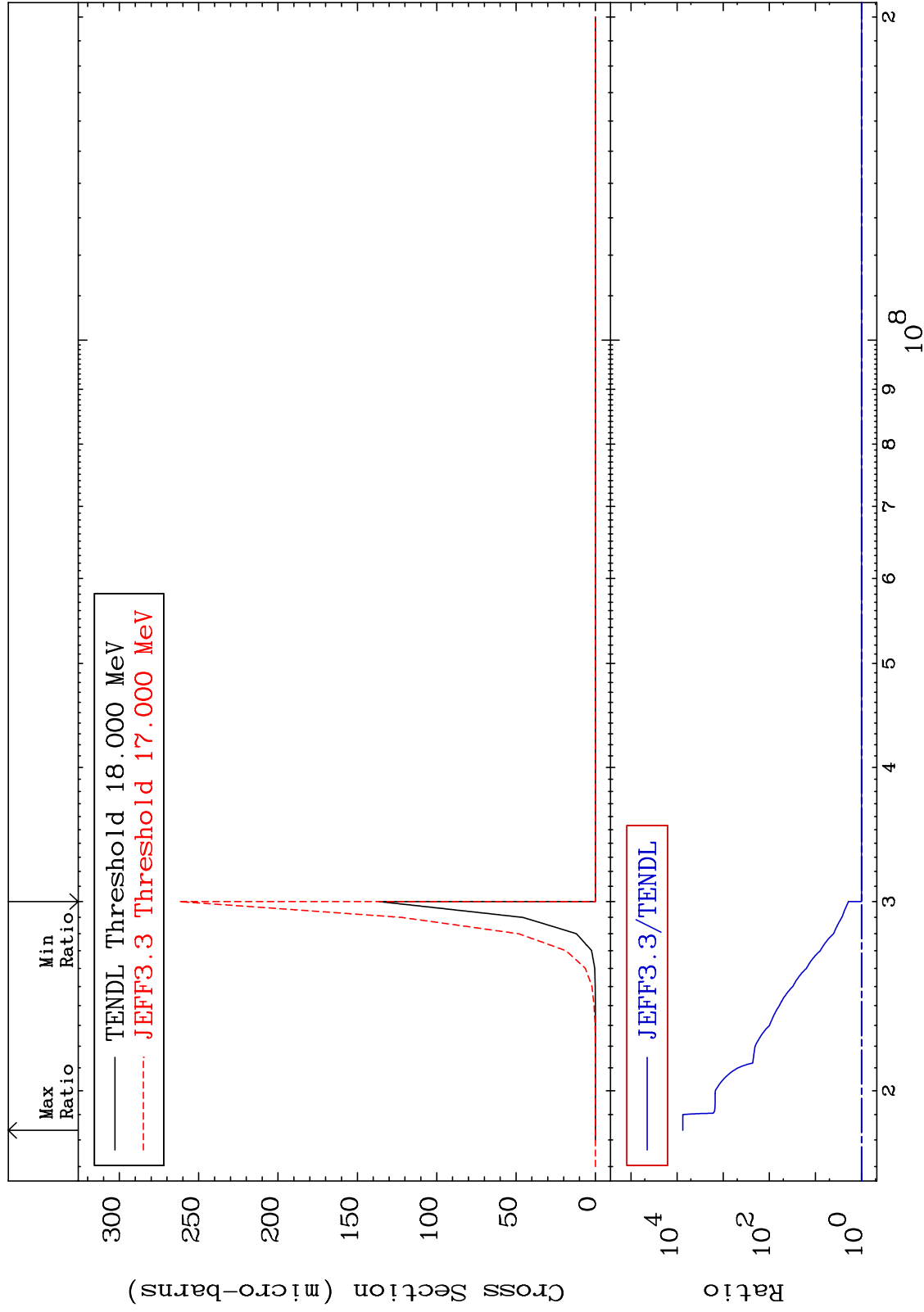


MAT 6034

(n,3n) α :58-Ce-139m2

60-Nd-145

Radionuclide Production Cross Section 0.000 To 9999. %

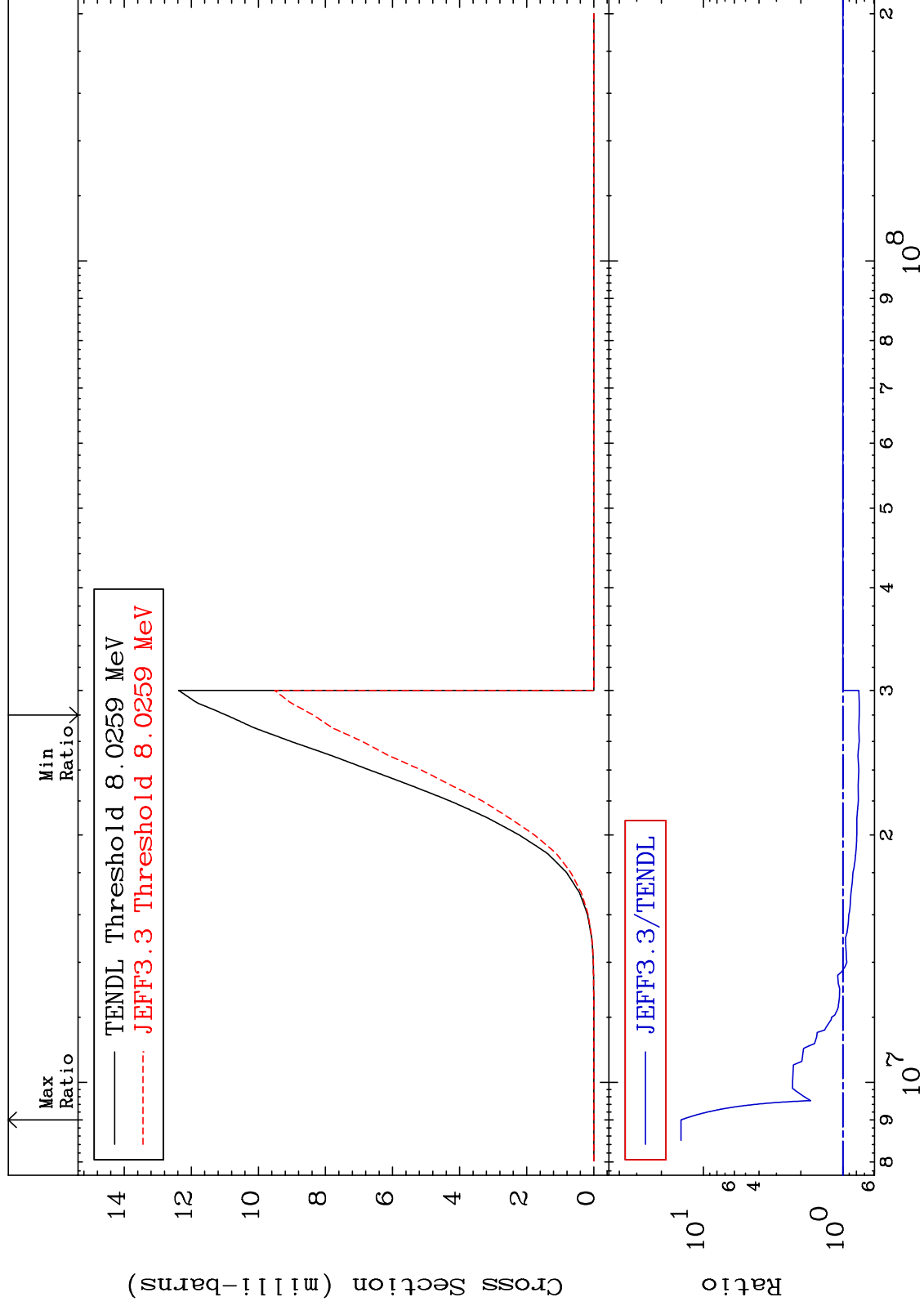


MAT 6034

(n, n') p:59-Pr-144g

60-Nd-145

Radionuclide Production Cross Section -23.66 To 1345. %



83

Incident Energy (eV)

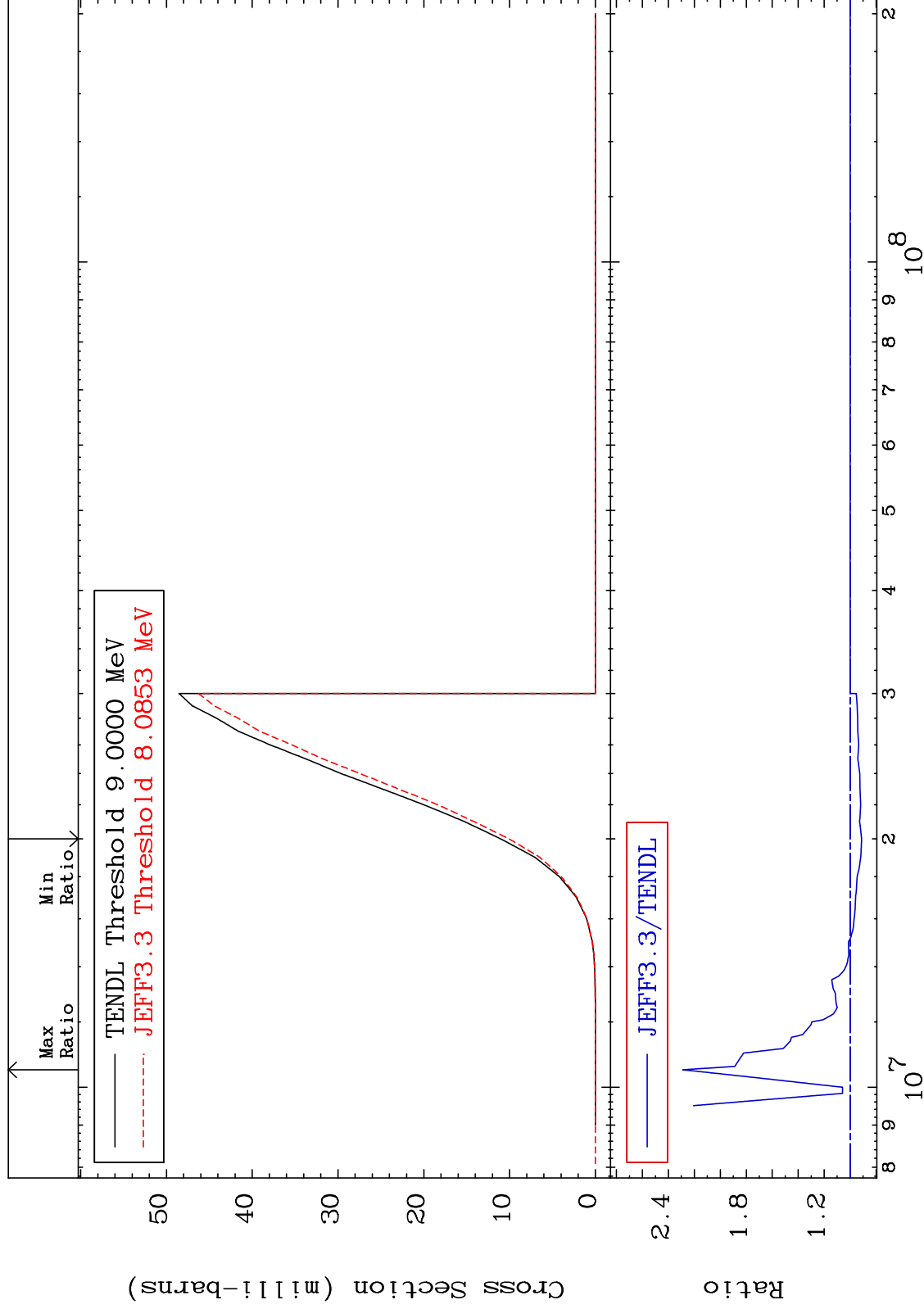
60-Nd-145

MAT 6034

(n, n') p:59-Pr-144m1

60-Nd-145

Radionuclide Production Cross Section -8.820 To 128.8 %



84

Incident Energy (eV)

60-Nd-145

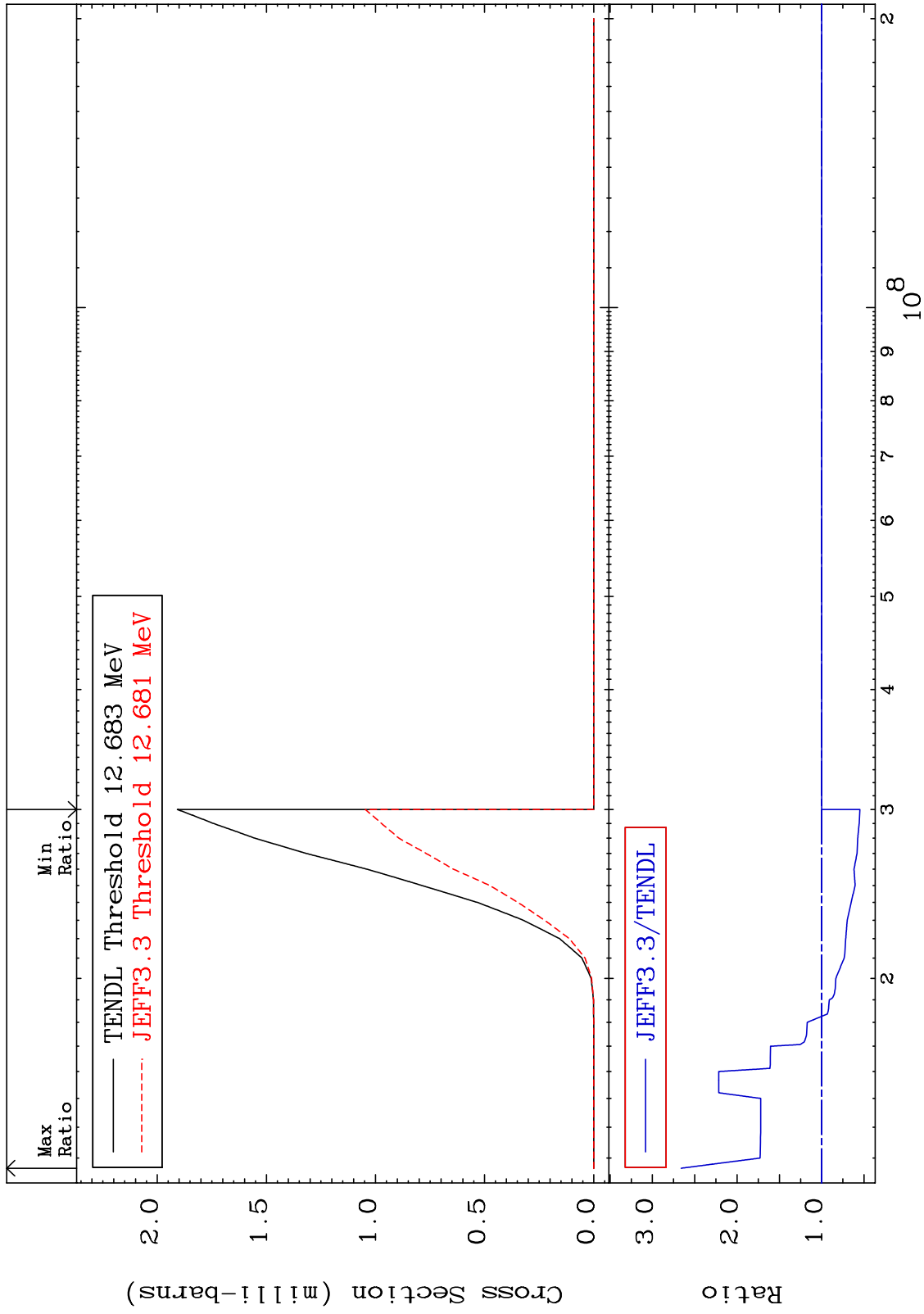
MAT 6034

(n, n') t:59-Pr-142g

60-Nd-145

Radionuclide Production Cross Section

-45.12 To 166.0 %

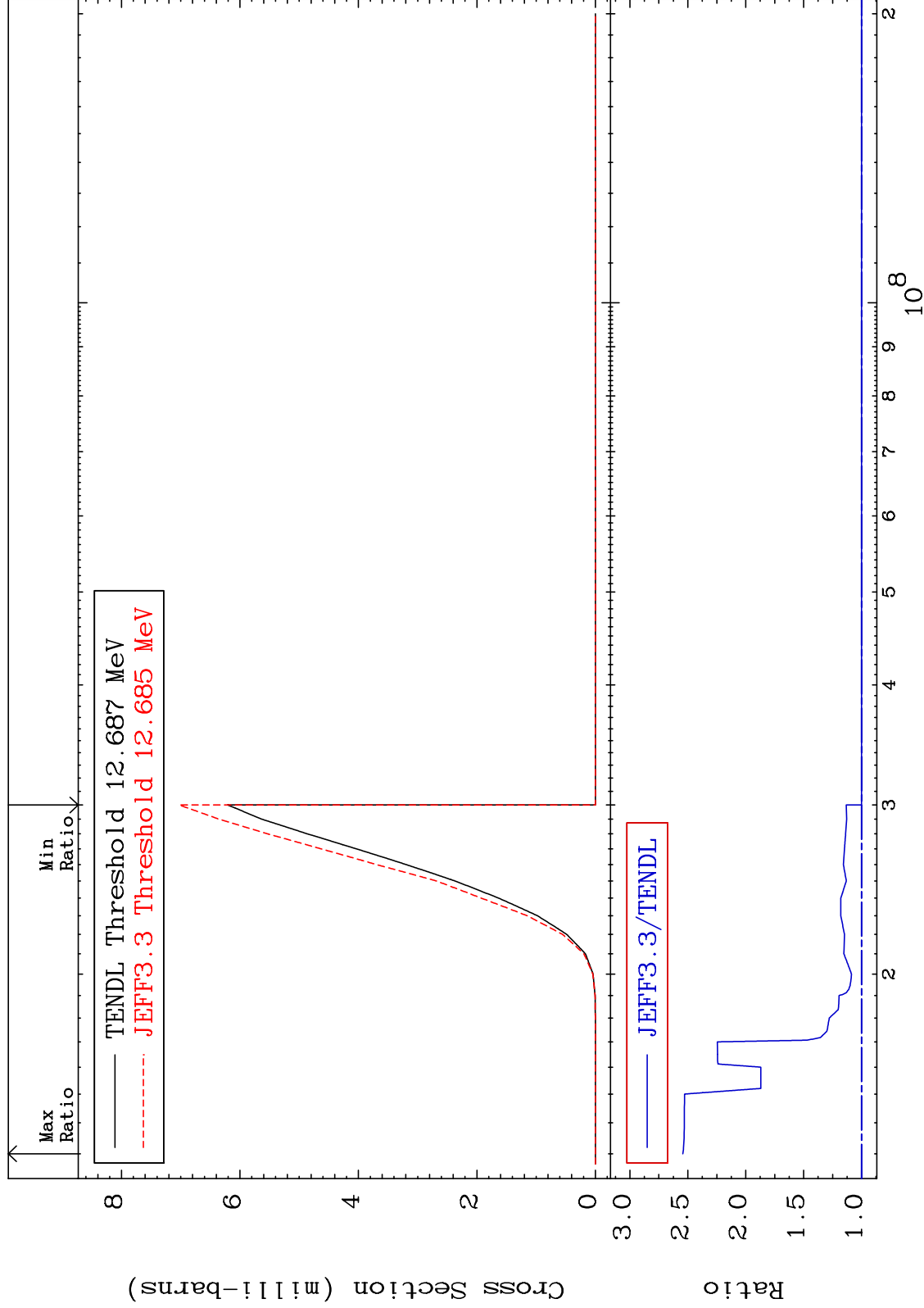


MAT 6034

(n, n') t:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section 0.000 To 154.3 %

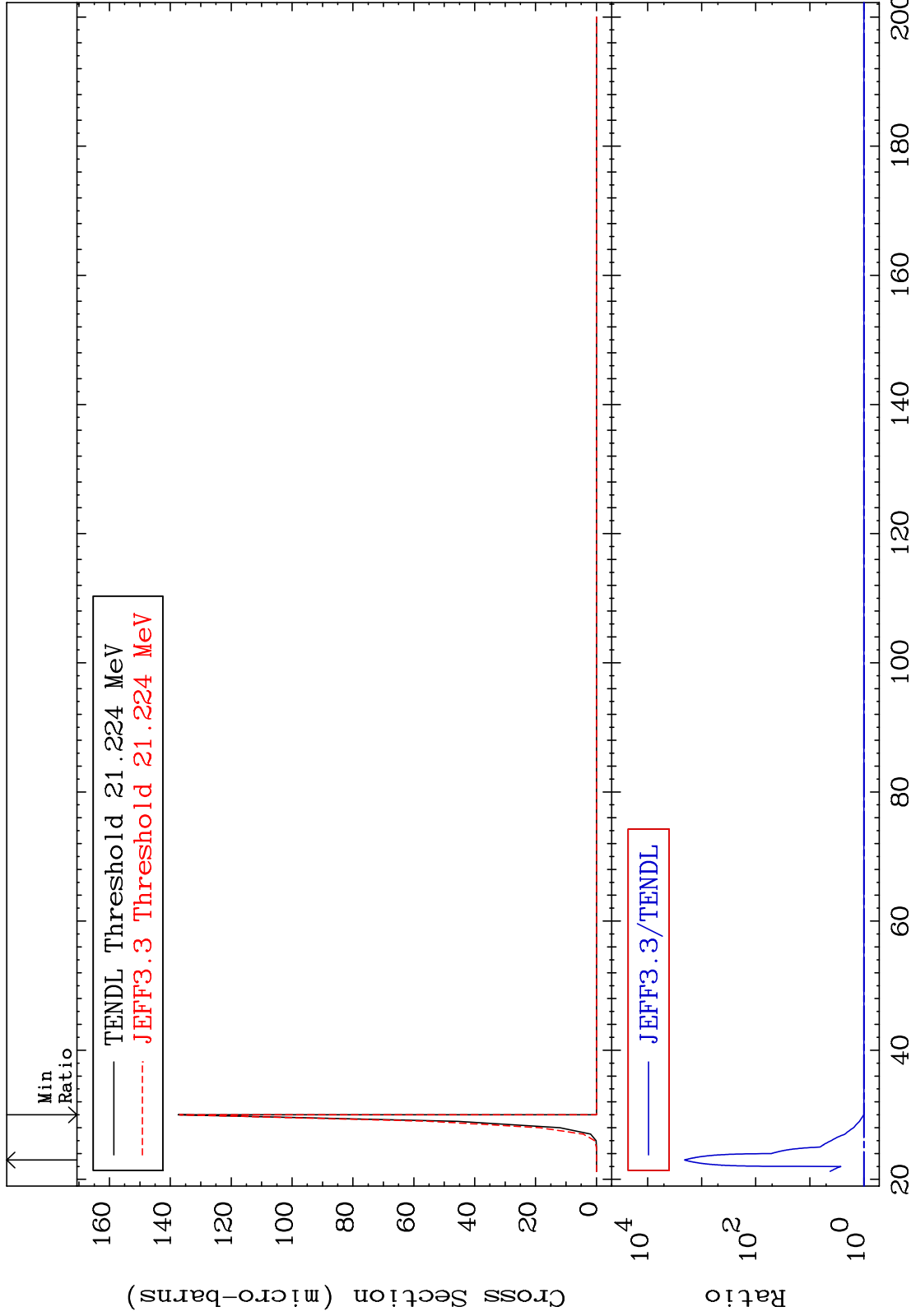


MAT 6034

(n,3n) p:59-Pr-142g

60-Nd-145

Radionuclide Production Cross Section -0.311 To 9999. %



87

Incident Energy (MeV)

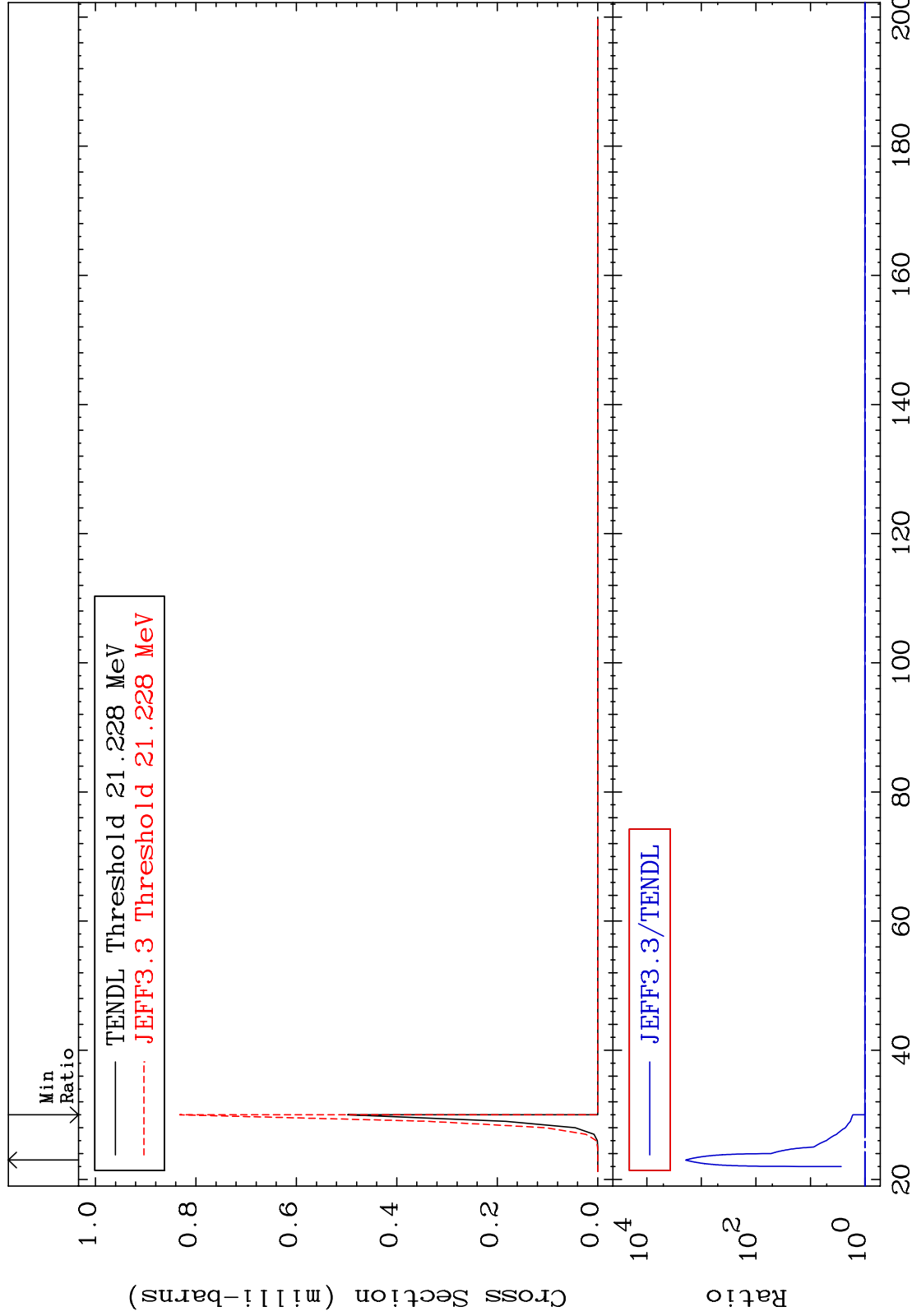
60-Nd-145

MAT 6034

(n,3n) p:59-Pr-142m1

60-Nd-145

Radionuclide Production Cross Section 0.000 To 9999. %

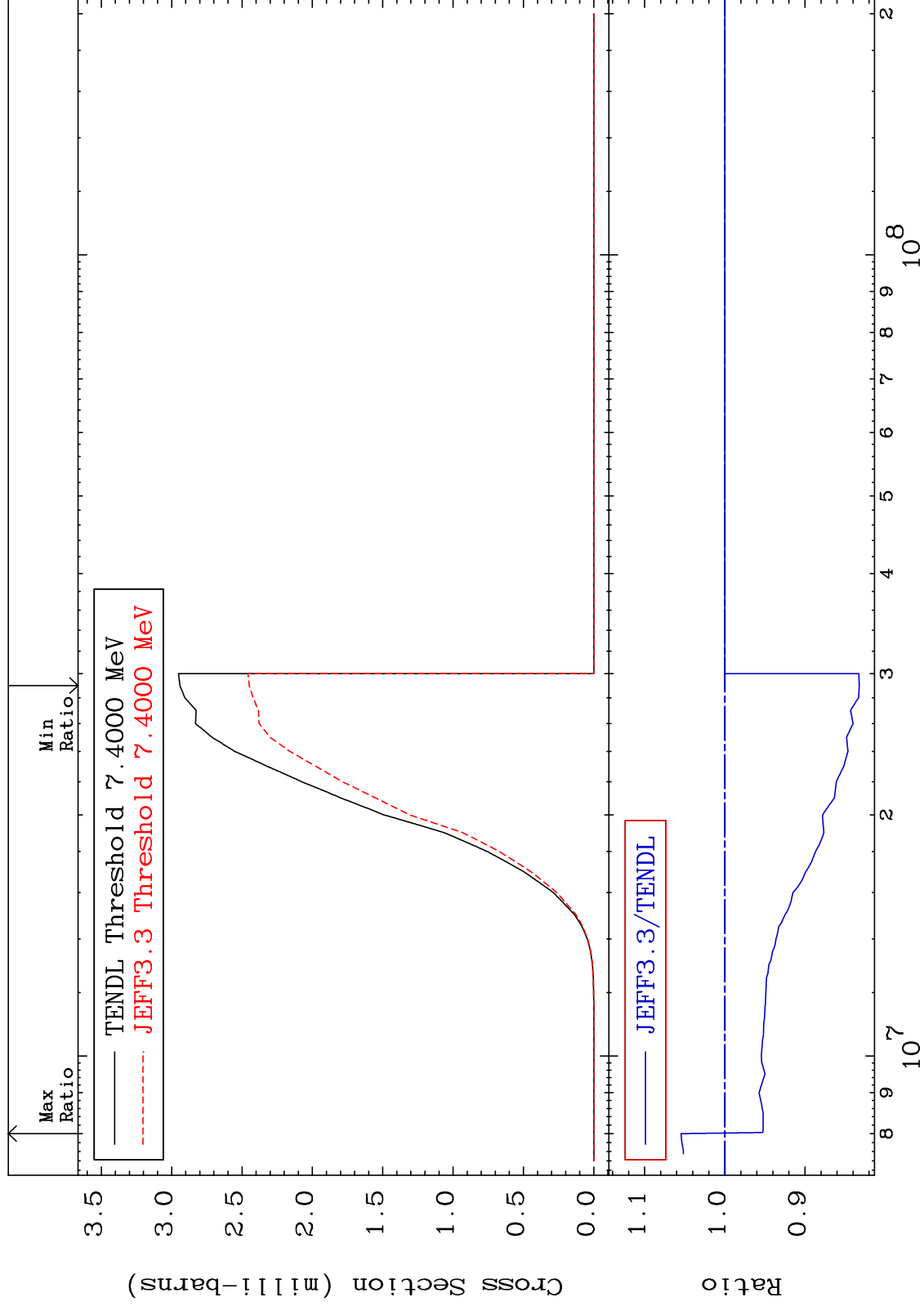


MAT 6034

(n,d):59-Pr-144g

60-Nd-145

Radionuclide Production Cross Section -16.77 To 5.461 %



89

Incident Energy (eV)

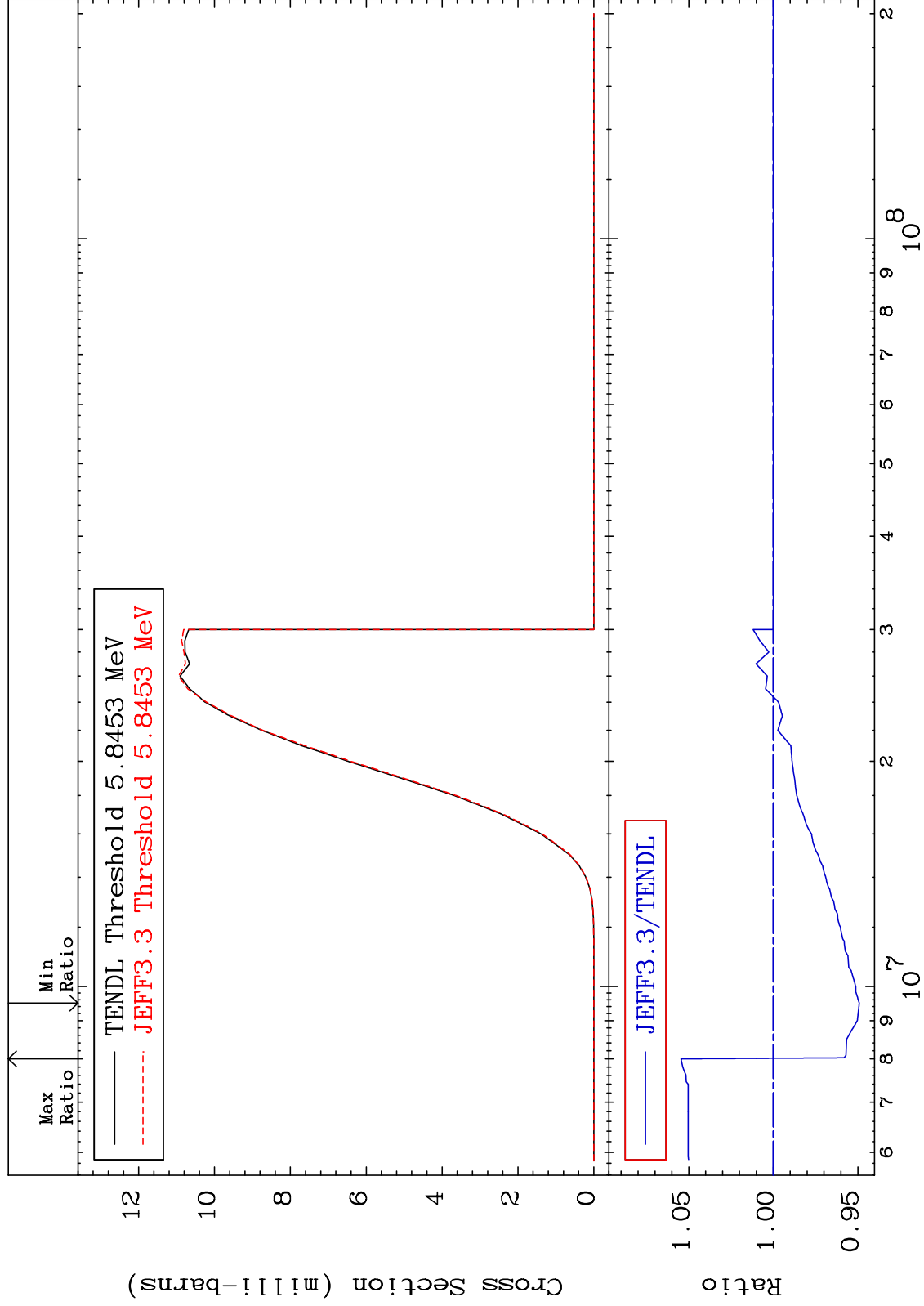
60-Nd-145

MAT 6034

(n, d) : 59-Pr-144m1

60-Nd-145

Radionuclide Production Cross Section -5.086 To 5.456 %



90

Incident Energy (eV)

60-Nd-145