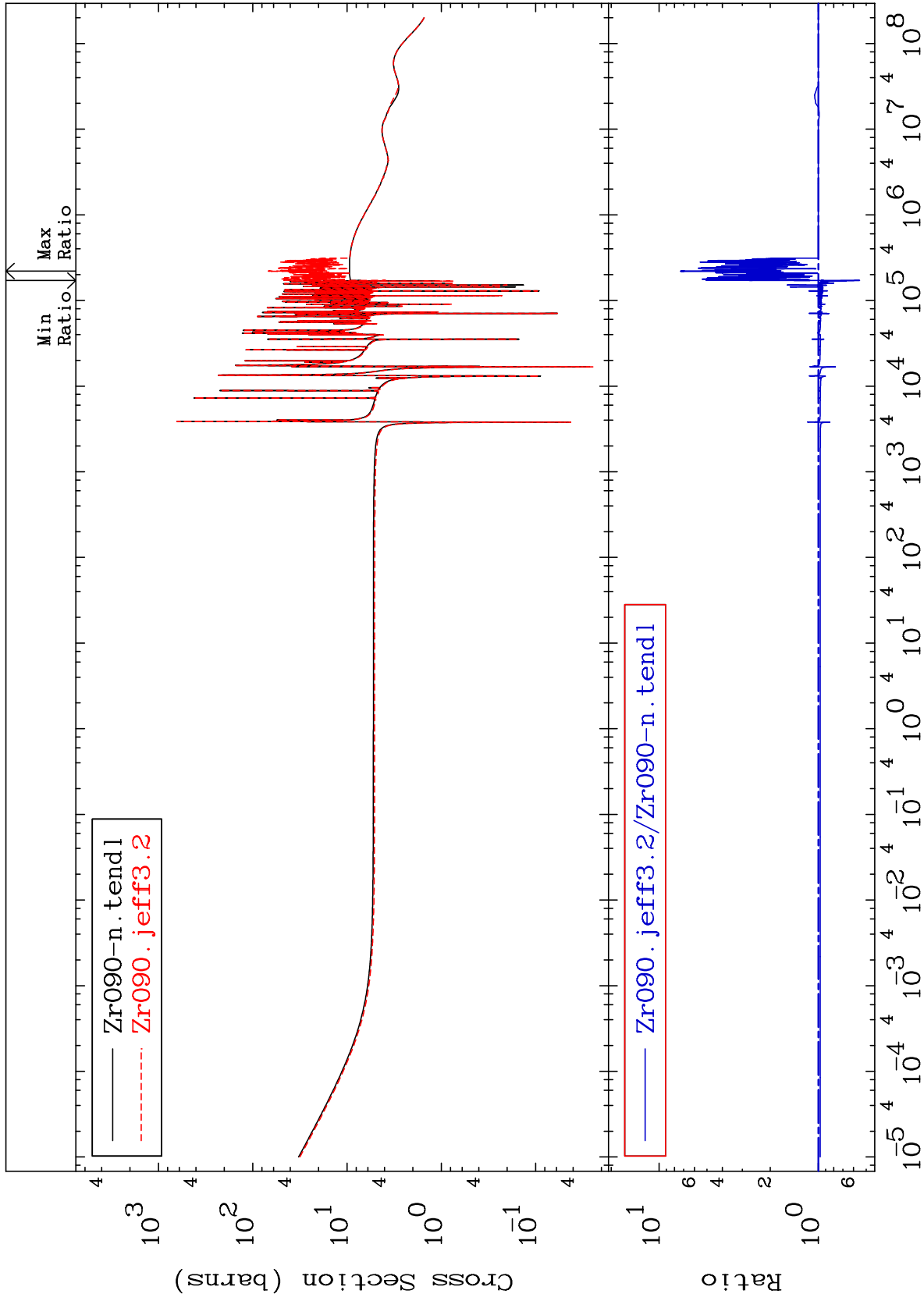


MAT 4025

Total
Cross Section

40-Zr-90
-44.98 To 630.4 %



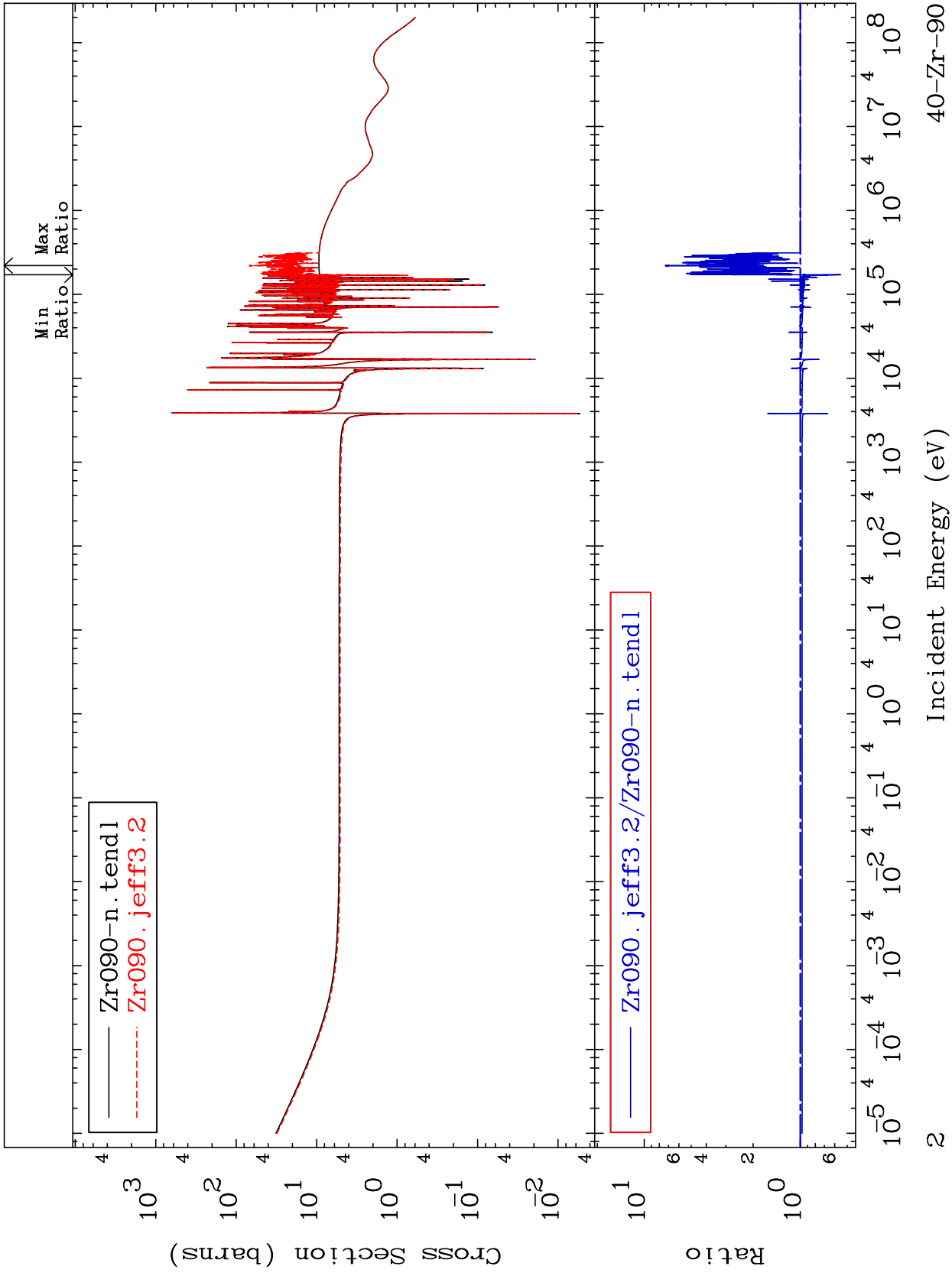
Incident Energy (eV)

40-Zr-90

MAT 4025

Elastic
Cross Section

40-Zr-90
-45.00 To 630.9 %



40-Zr-90

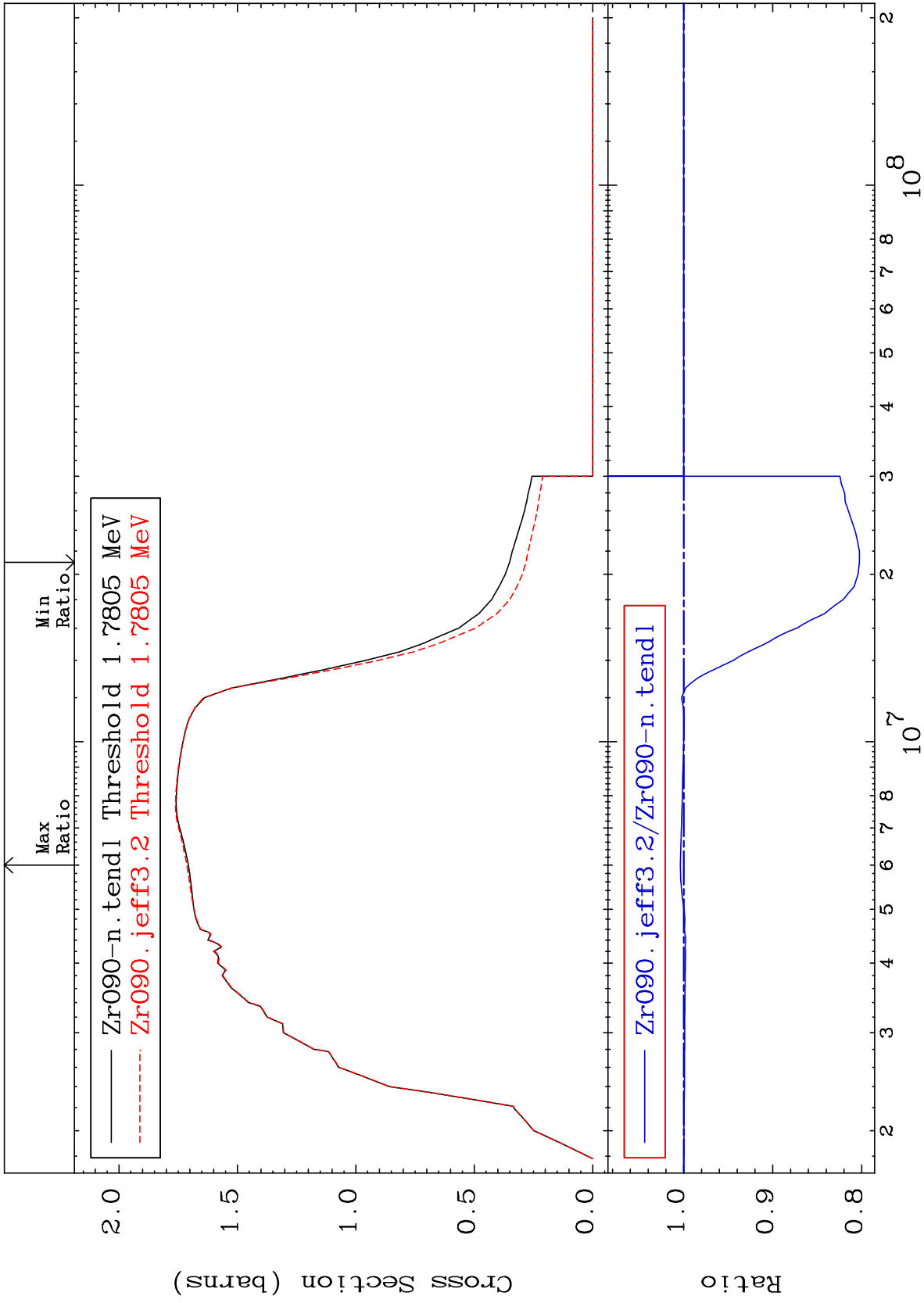
Incident Energy (eV)

2

MAT 4025

Inelastic
Cross Section

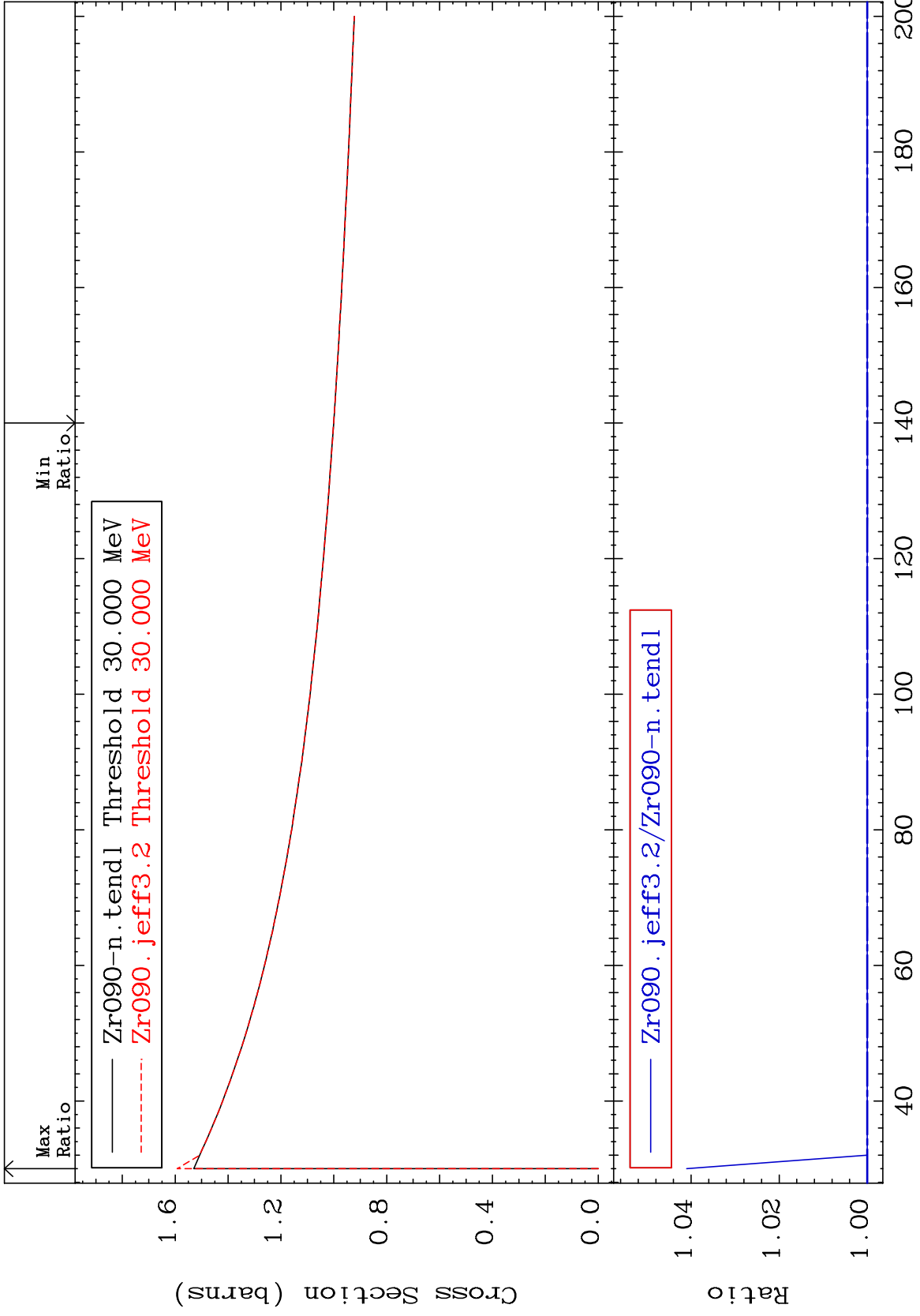
40-Zr-90
-19.74 To 0.380 %



MAT 4025

(n, remainder)
Cross Section

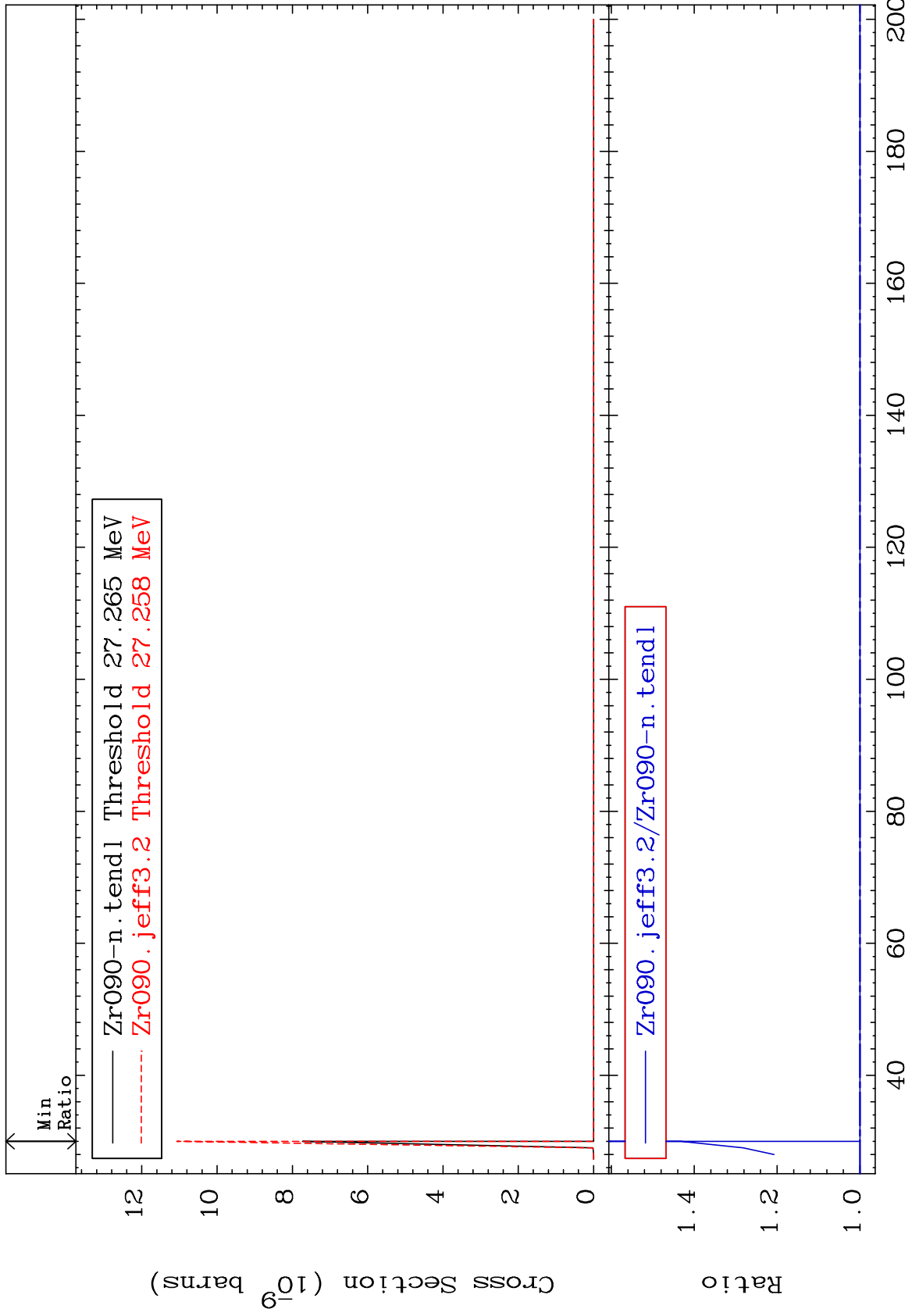
40-Zr-90
-0.004 To 4.099 %



MAT 4025

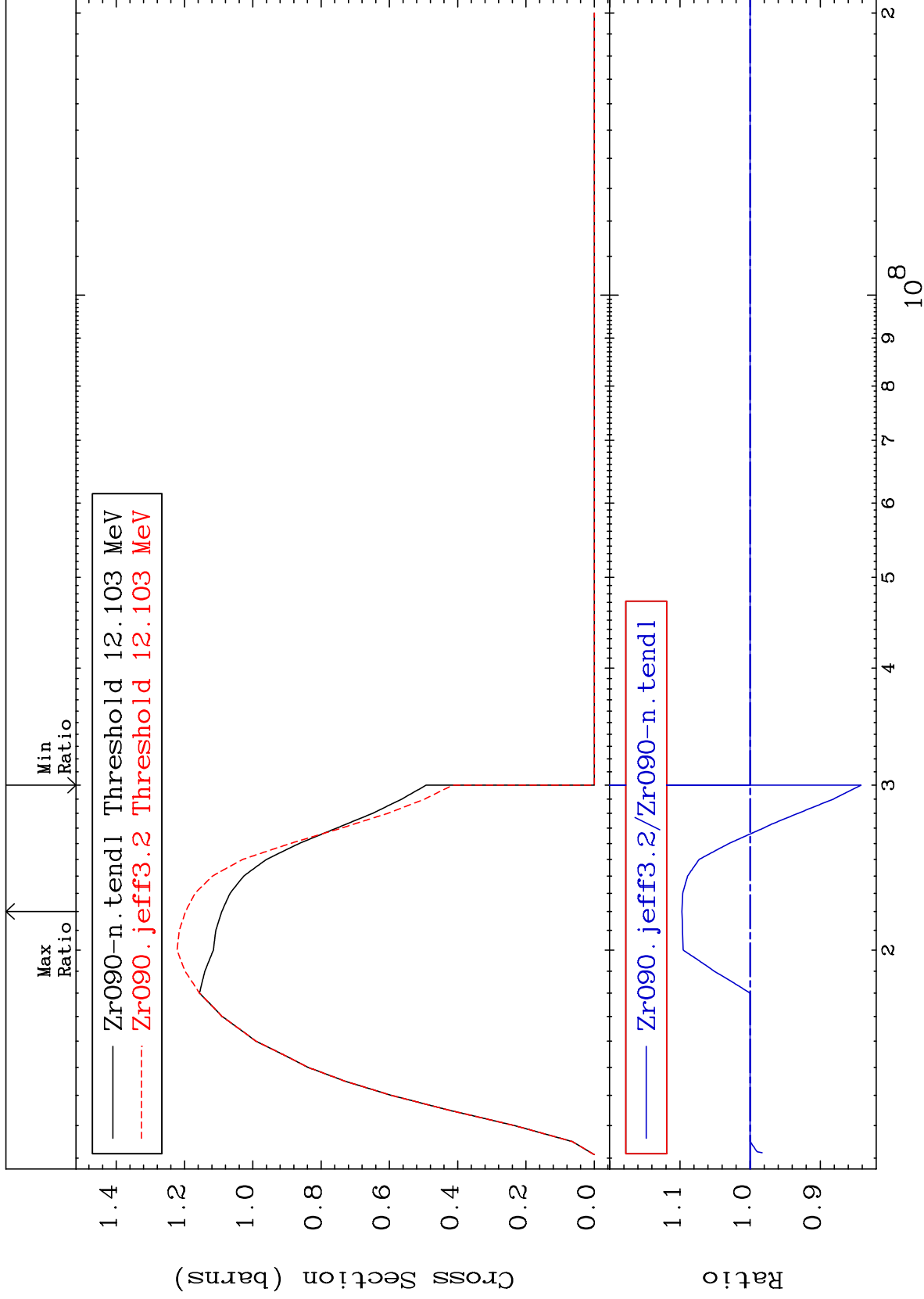
(n,2n) d
Cross Section

40-Zr-90
0.000 To 43.16 %



MAT 4025

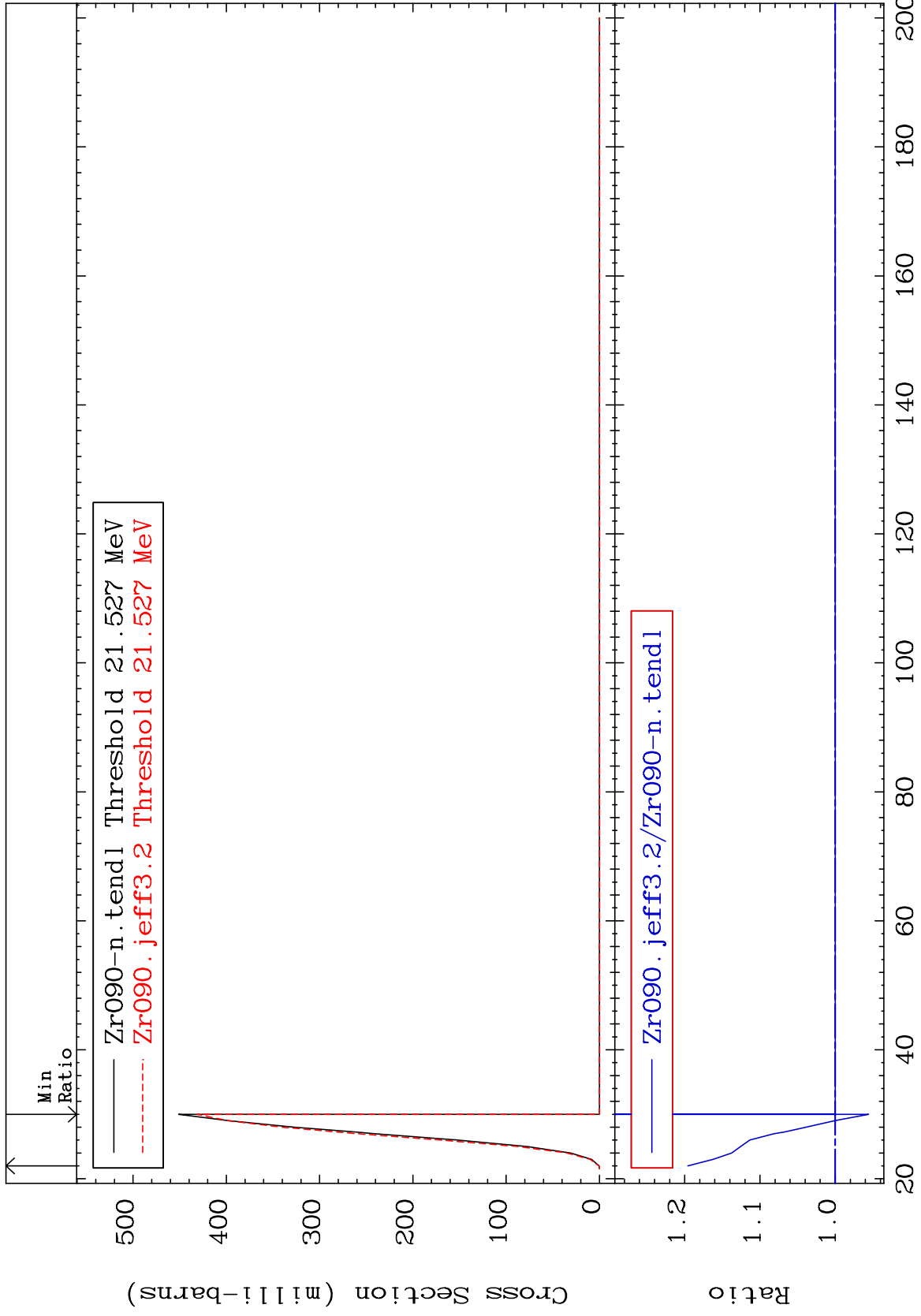
(n,2n) Cross Section
40-Zr-90
-15.81 To 9.724 %



MAT 4025

(n,3n)
Cross Section

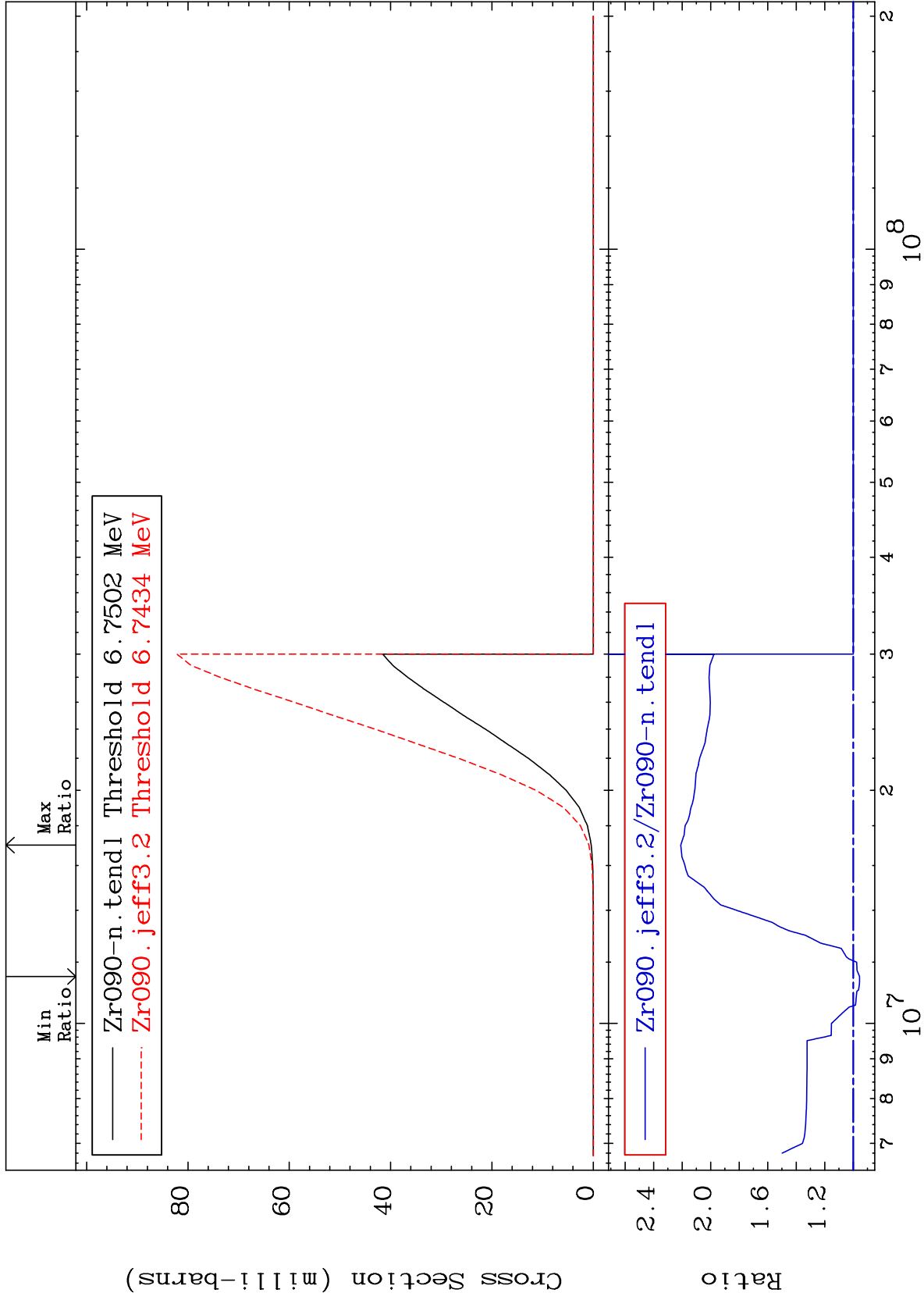
40-Zr-90
-4.413 To 19.58 %



MAT 4025

(n, n') α
Cross Section

40-Zr-90
-4.397 To 120.9 %



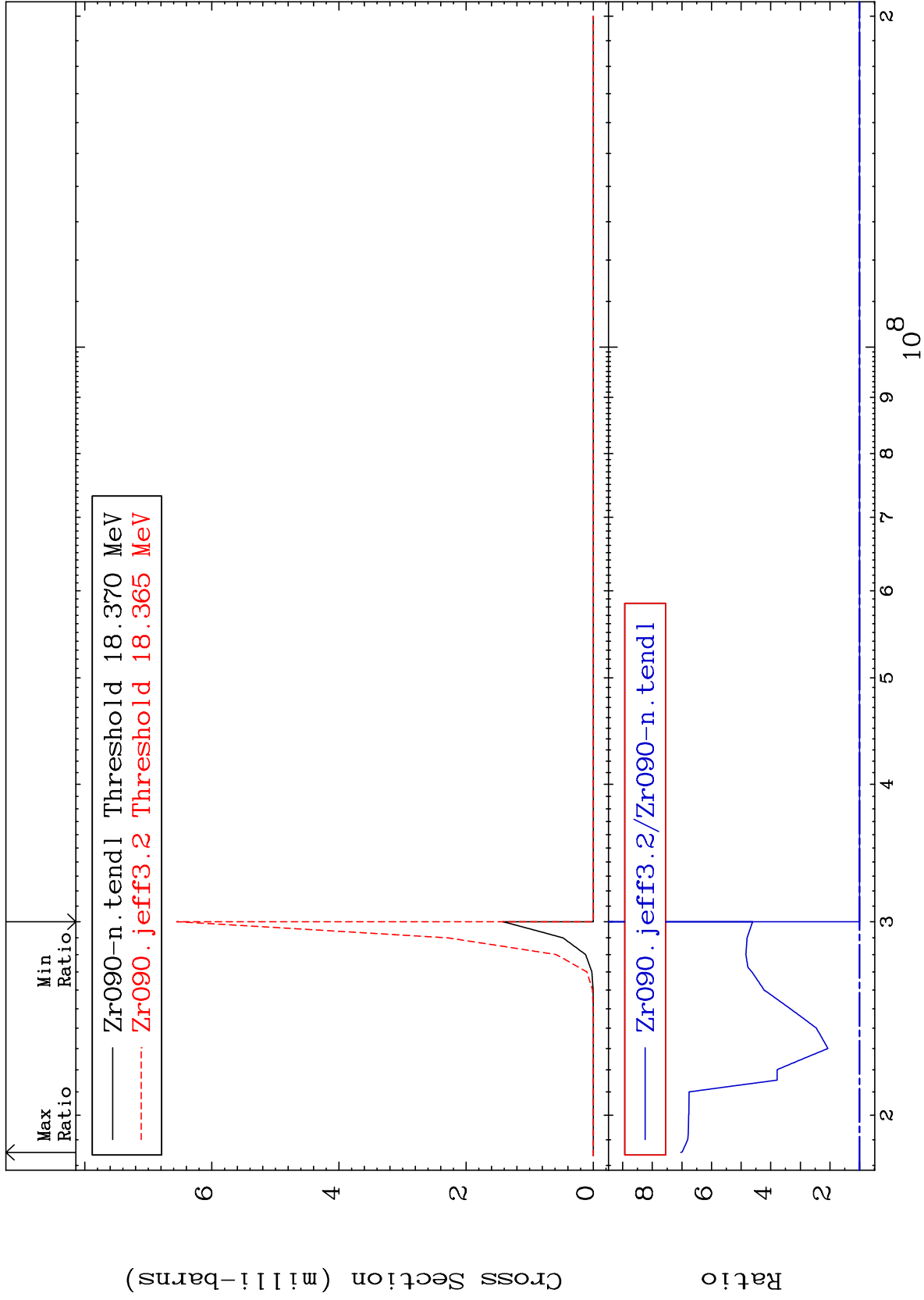
8

Incident Energy (eV)

40-Zr-90

MAT 4025

(n,2n) α
Cross Section
0.000 To 603.8 %
40-Zr-90



9

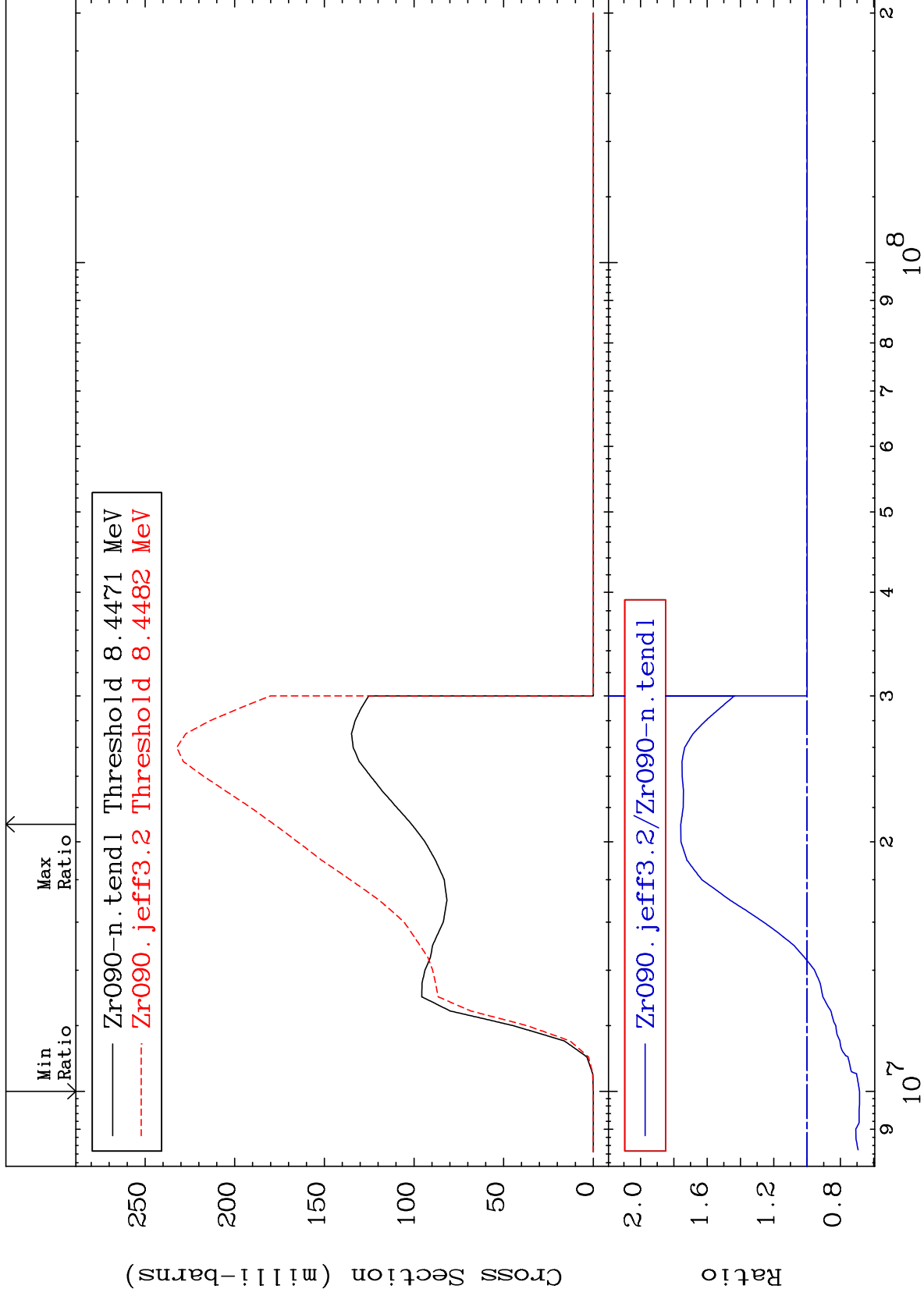
40-Zr-90

40-Zr-90

MAT 4025

(n, n') p
Cross Section

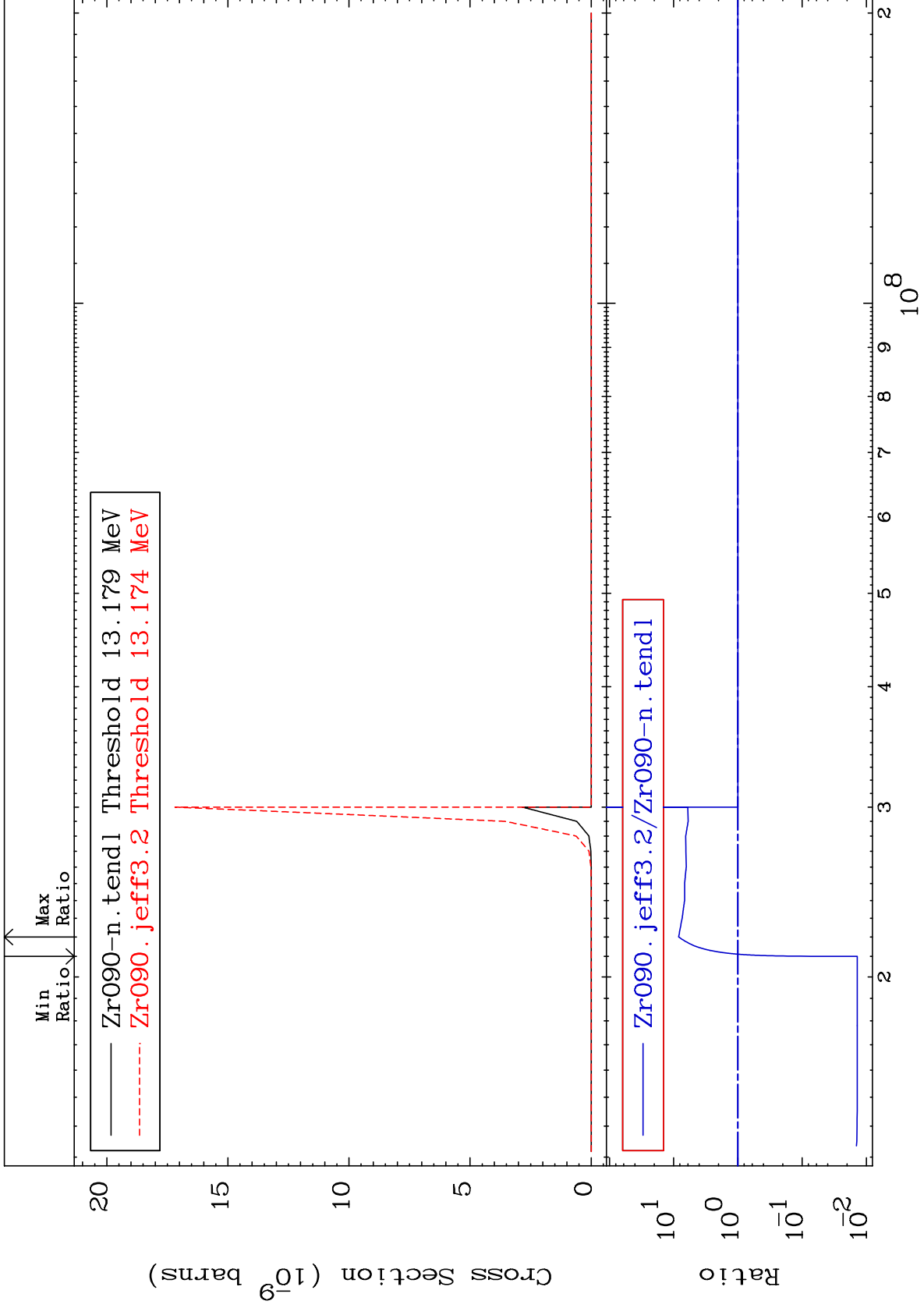
40-Zr-90
-31.56 To 75.86 %



MAT 4025

(n, n') 2α
Cross Section

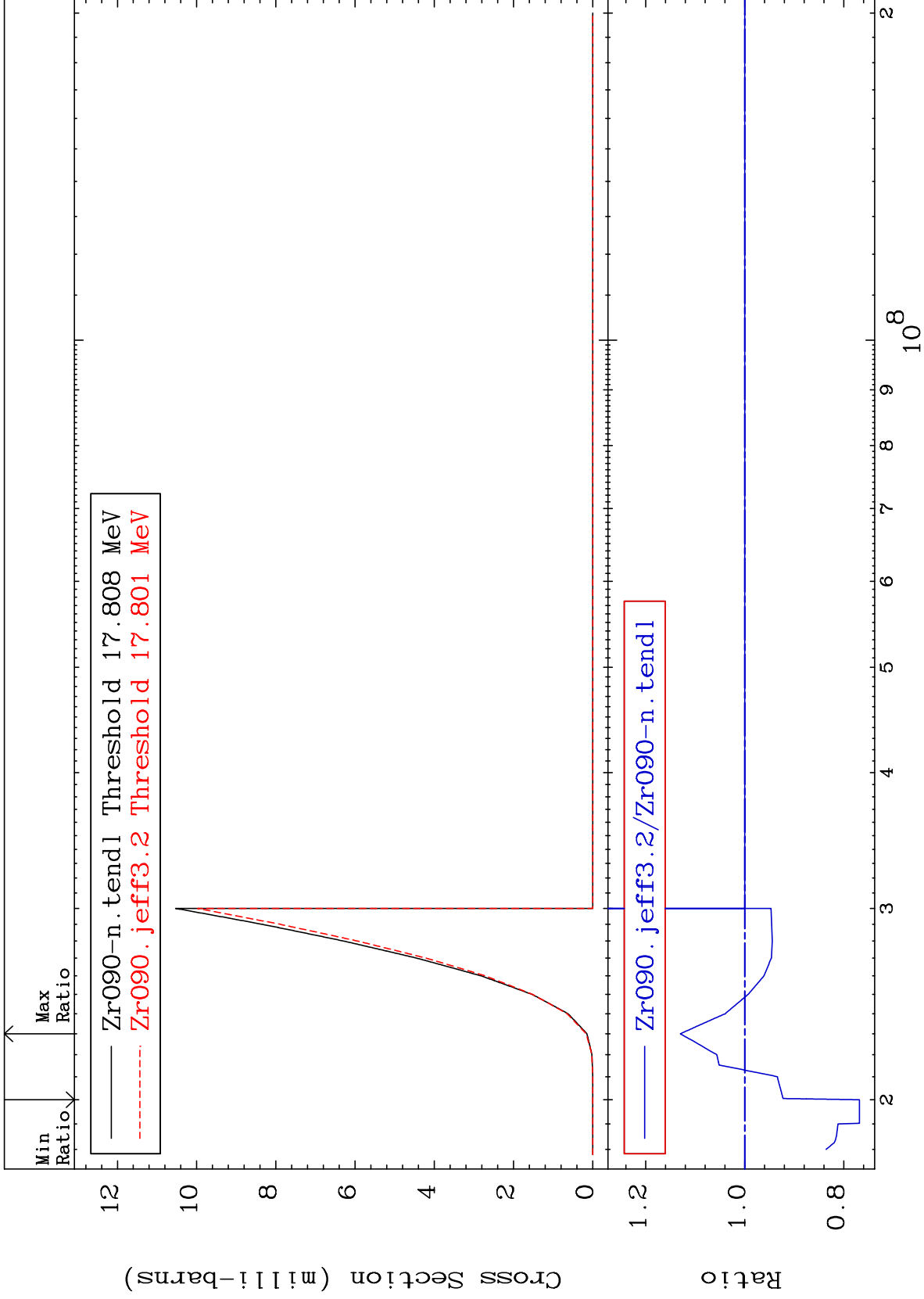
40-Zr-90
-98.61 To 737.4 %



MAT 4025

(n, n') d
Cross Section

40-Zr-90
-23.16 To 13.01 %



12

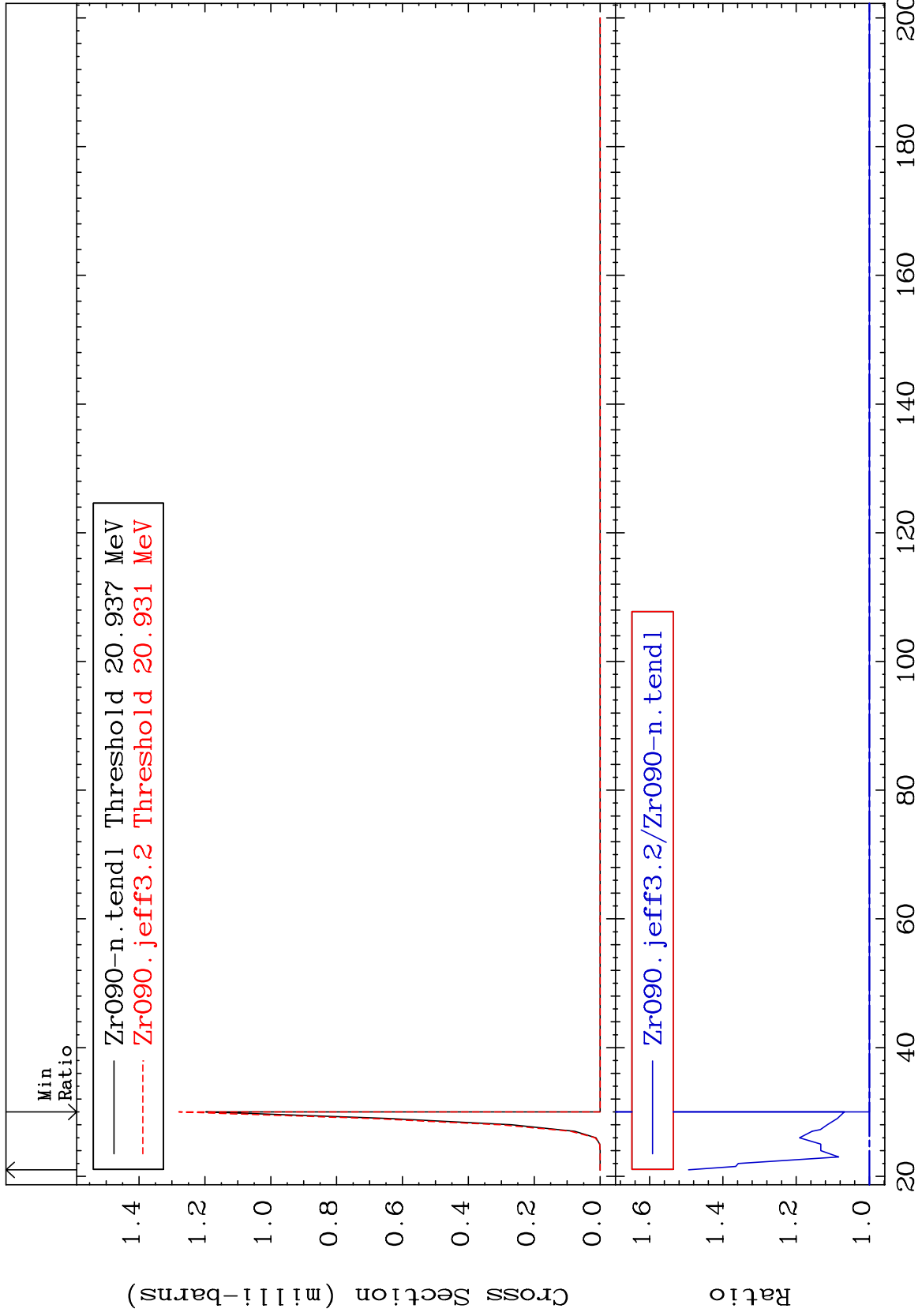
Incident Energy (eV)

40-Zr-90

MAT 4025

(n,n') t
Cross Section

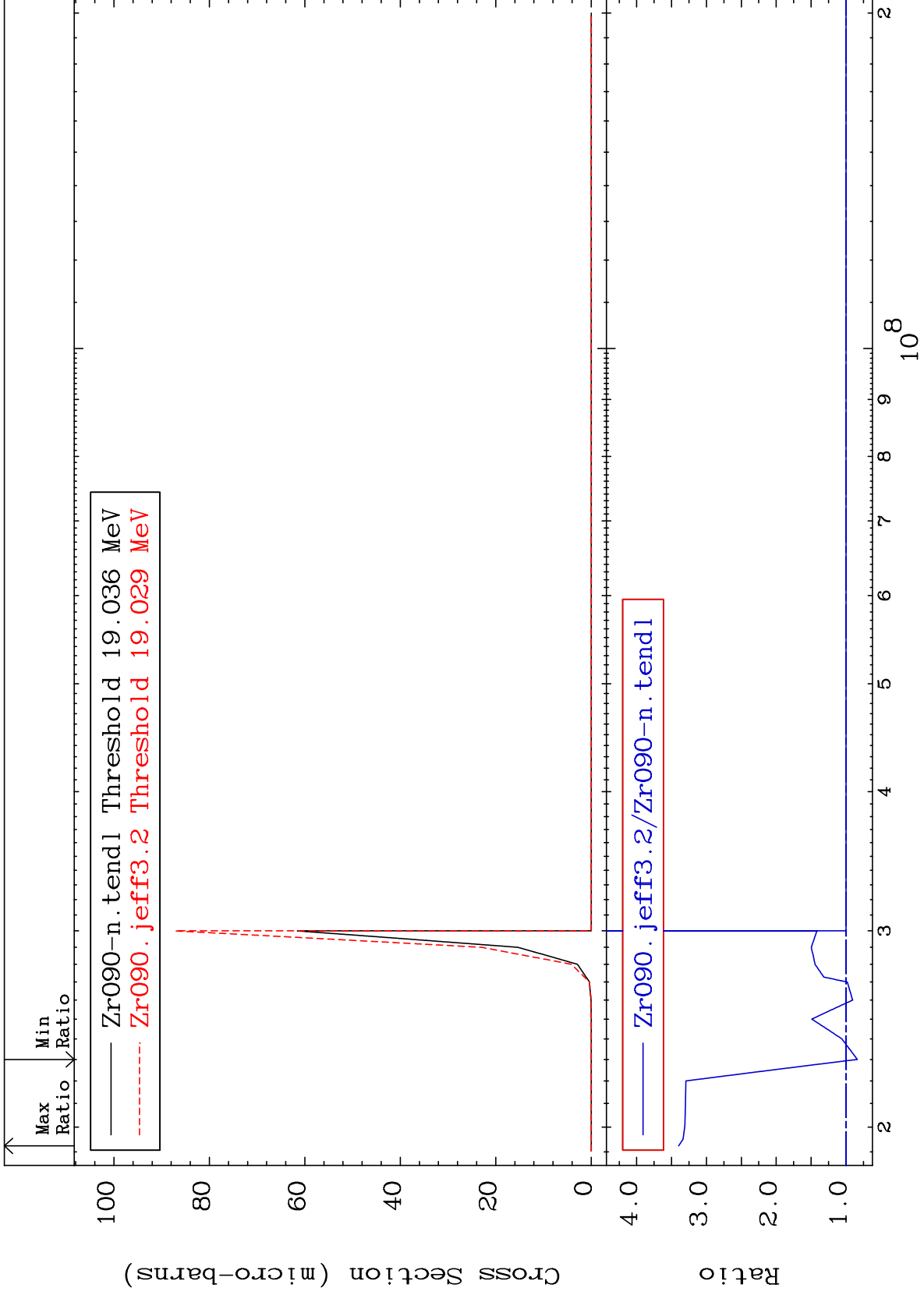
40-Zr-90
0.000 To 49.37 %



MAT 4025

(n, n') He-3
Cross Section

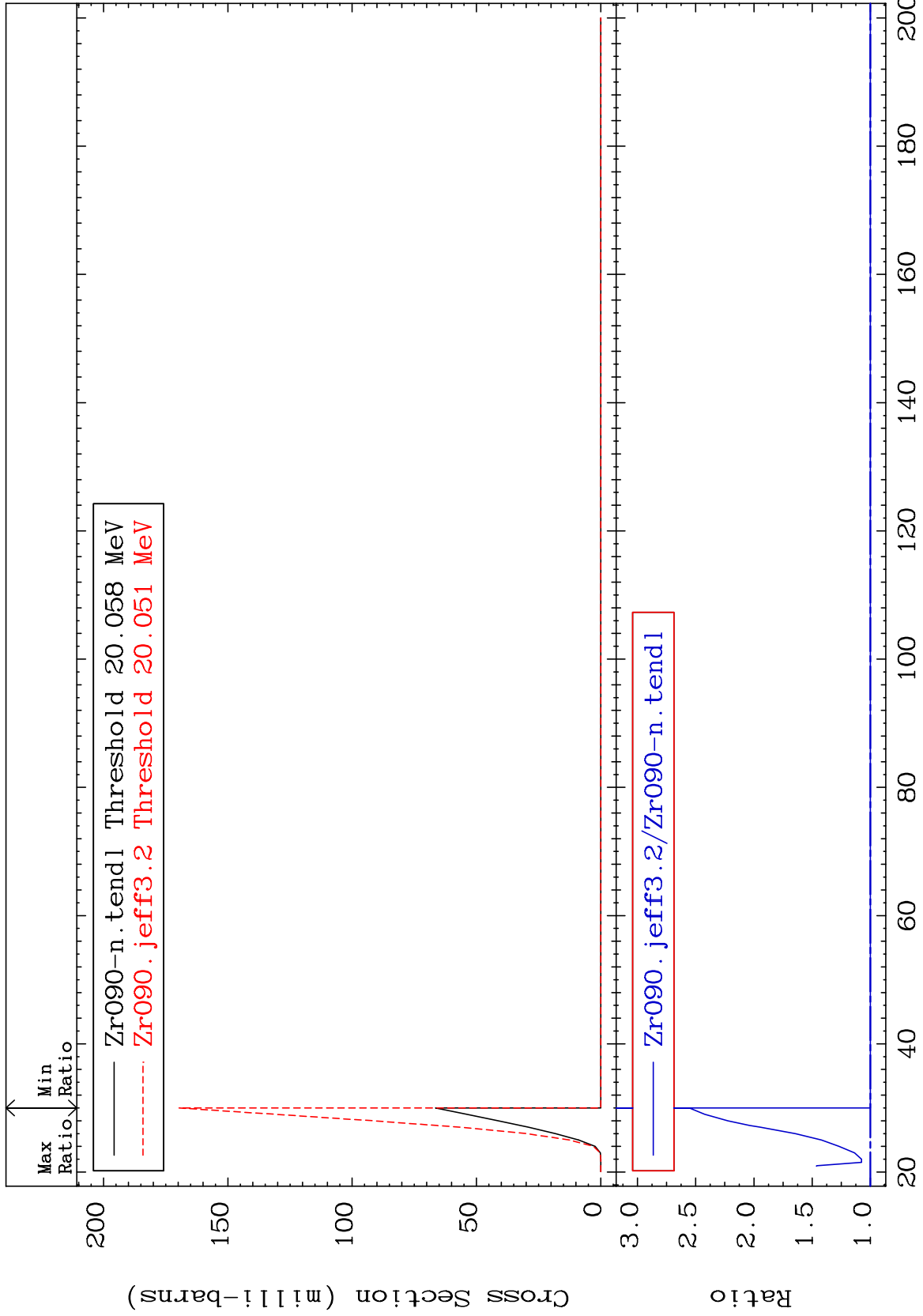
40-Zr-90
-16.21 To 239.8 %



MAT 4025

(n,2n) p
Cross Section

40-Zr-90
0.000 To 155.4 %



15

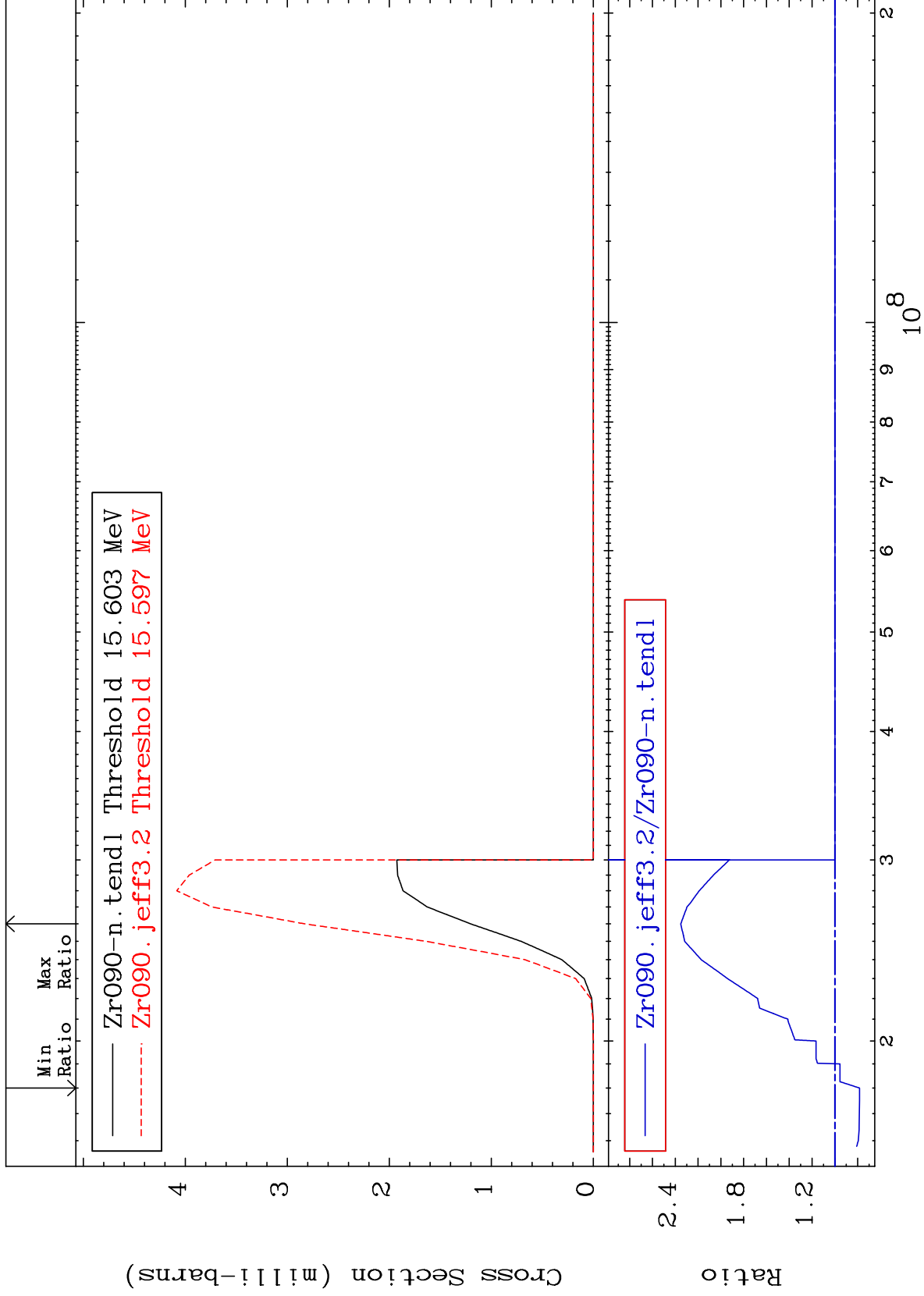
Incident Energy (MeV)

40-Zr-90

MAT 4025

(n,2n) p
Cross Section

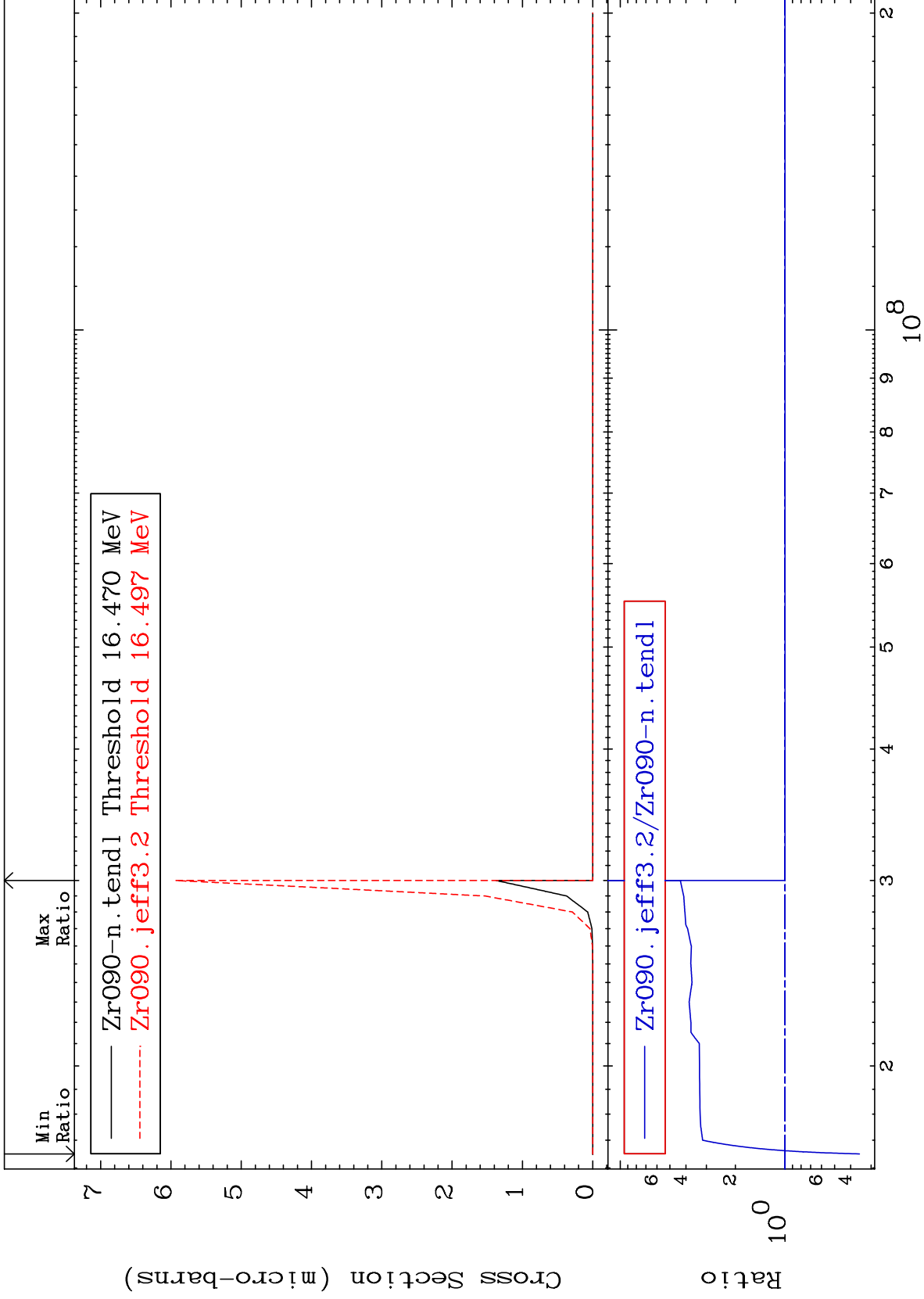
40-Zr-90
-21.64 To 135.2 %



MAT 4025

(n,n') p α
Cross Section

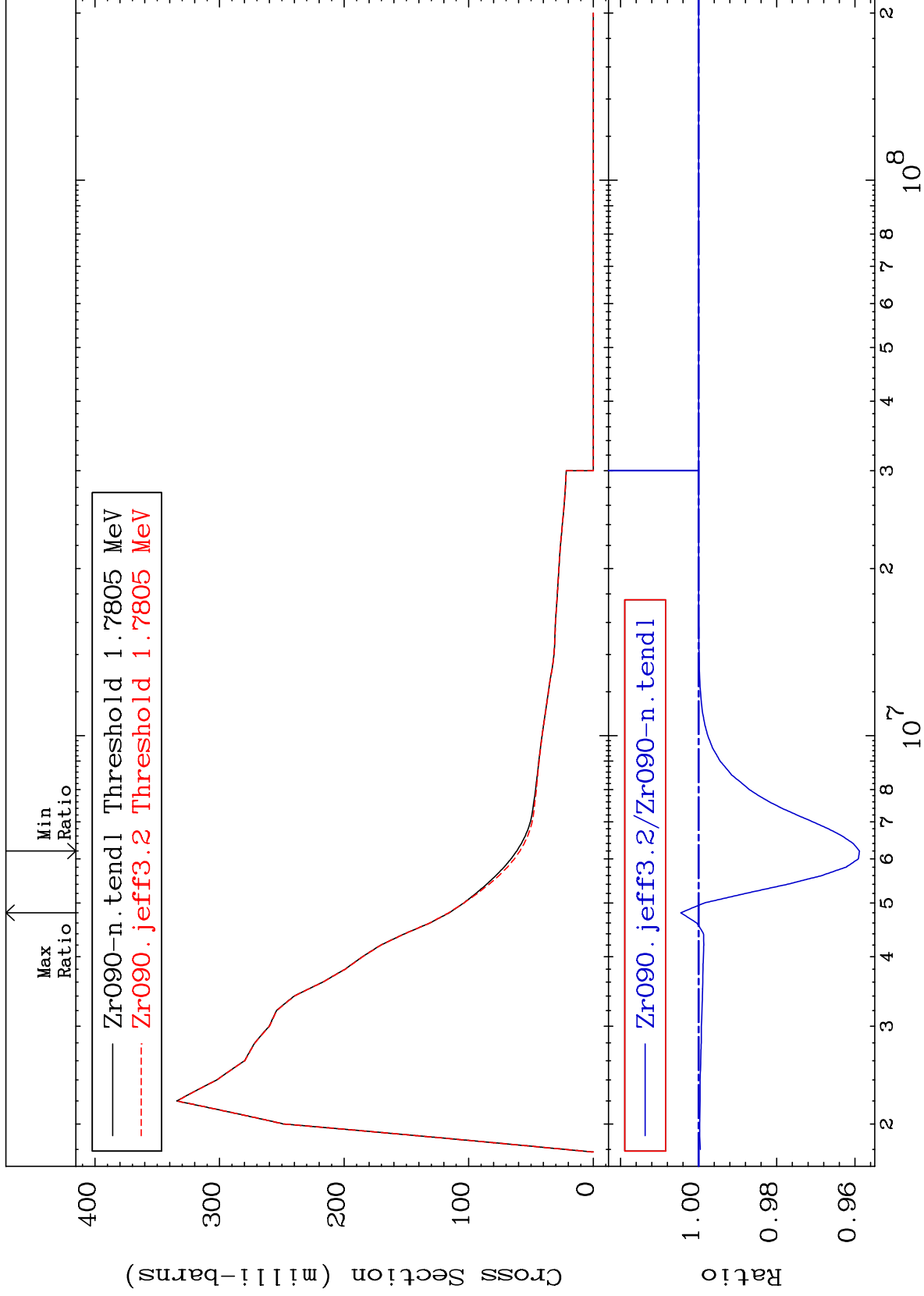
40-Zr-90
-64.66 To 332.1 %



MAT 4025

1.761 MeV (n,n') Level
Cross Section

40-Zr-90
-4.119 To 0.457 %



18

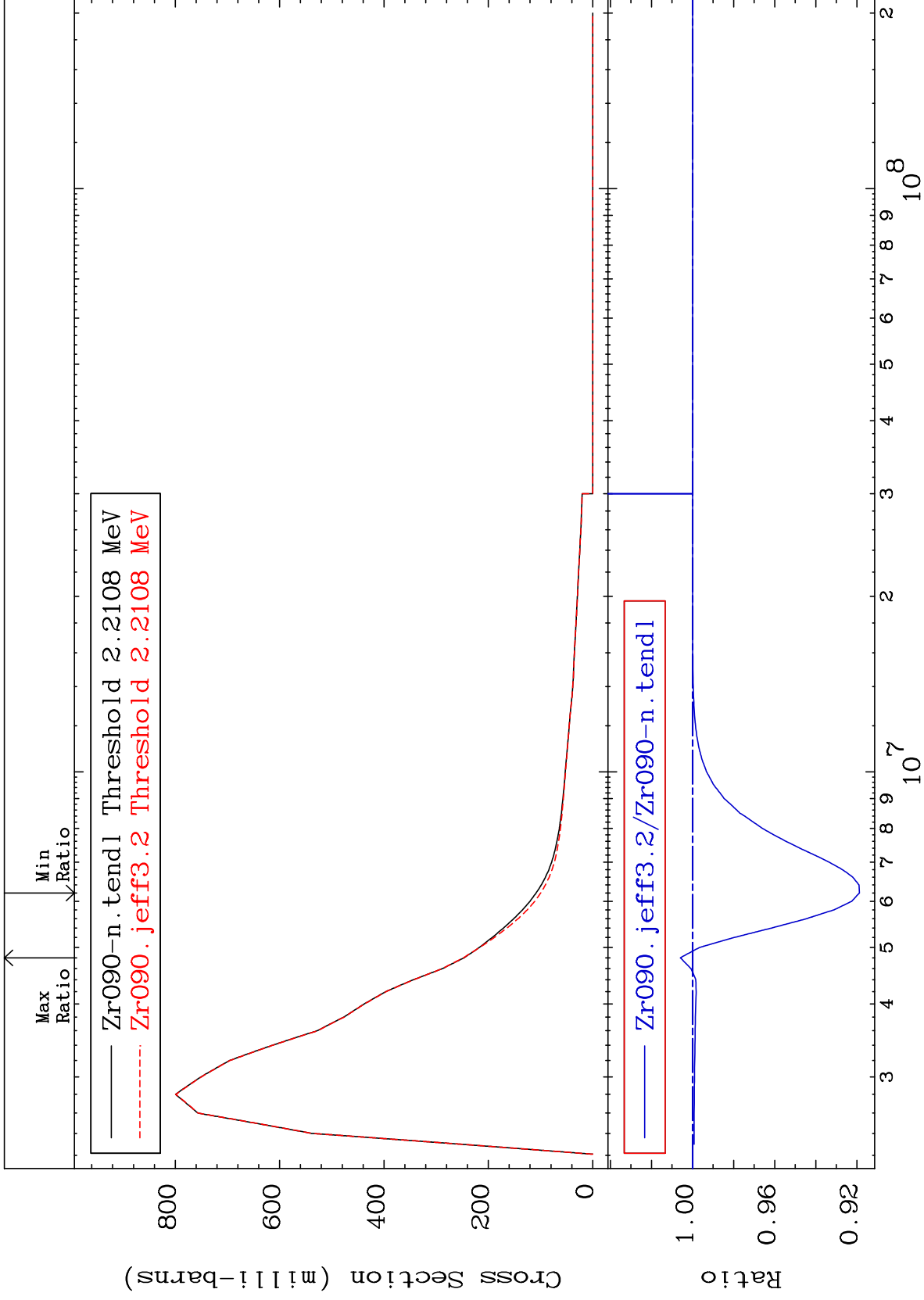
Incident Energy (eV)

40-Zr-90

MAT 4025

2.186 MeV (n,n') Level
Cross Section

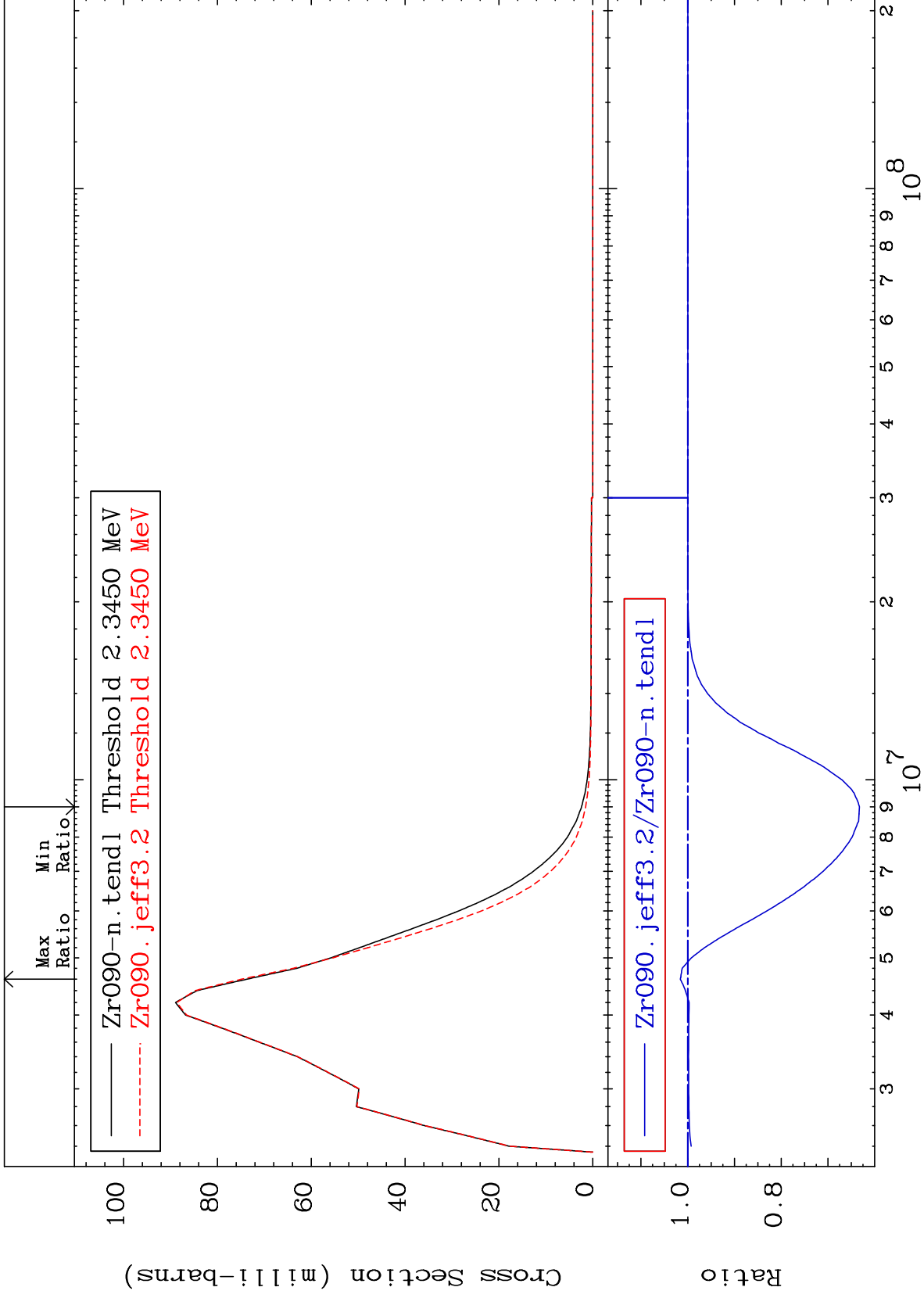
40-Zr-90
-8.126 To 0.594 %



MAT 4025

2.319 MeV (n,n') Level
Cross Section

40-Zr-90
-36.73 To 1.574 %



20

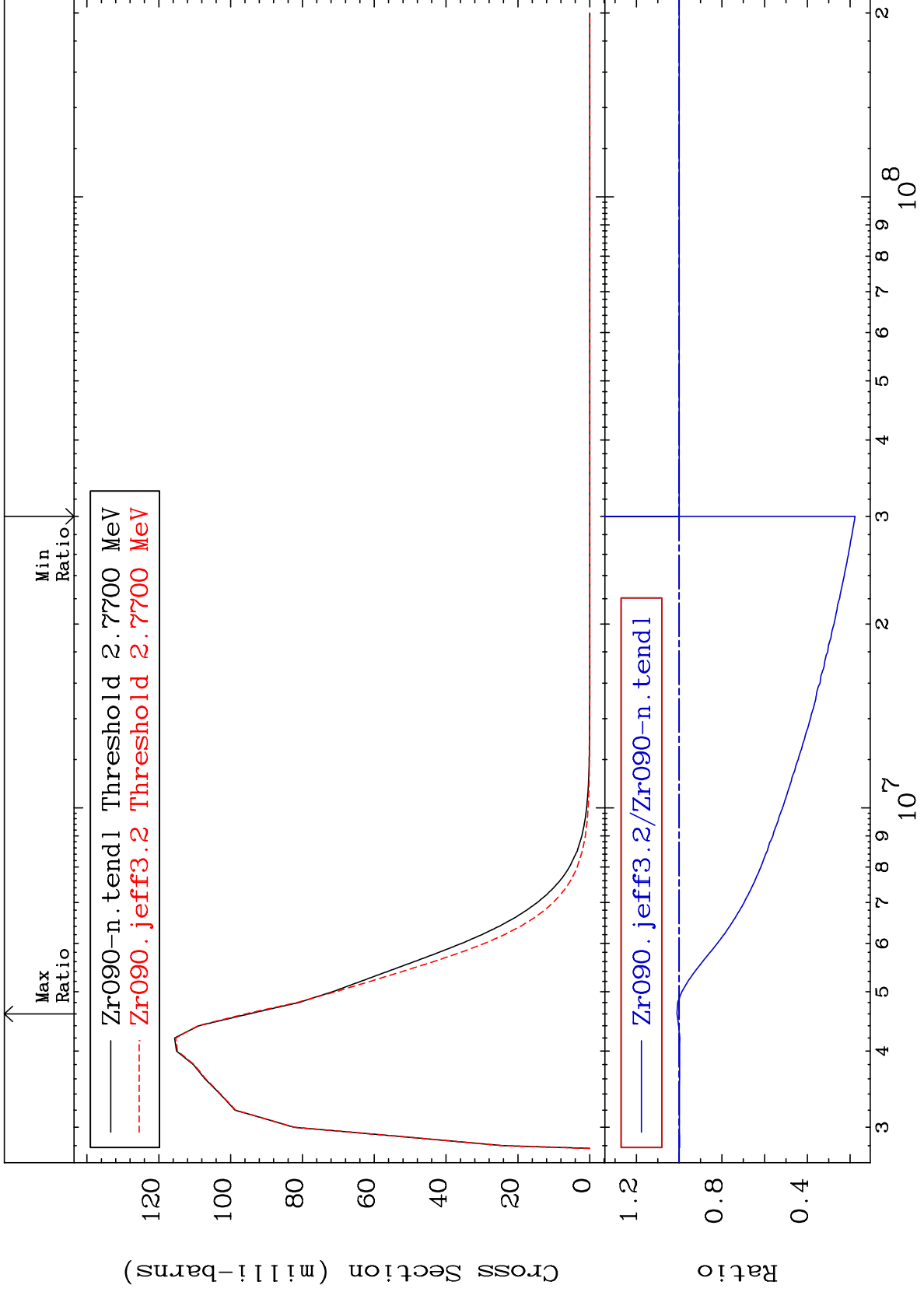
Incident Energy (eV)

40-Zr-90

MAT 4025

2.739 MeV (n,n') Level
Cross Section

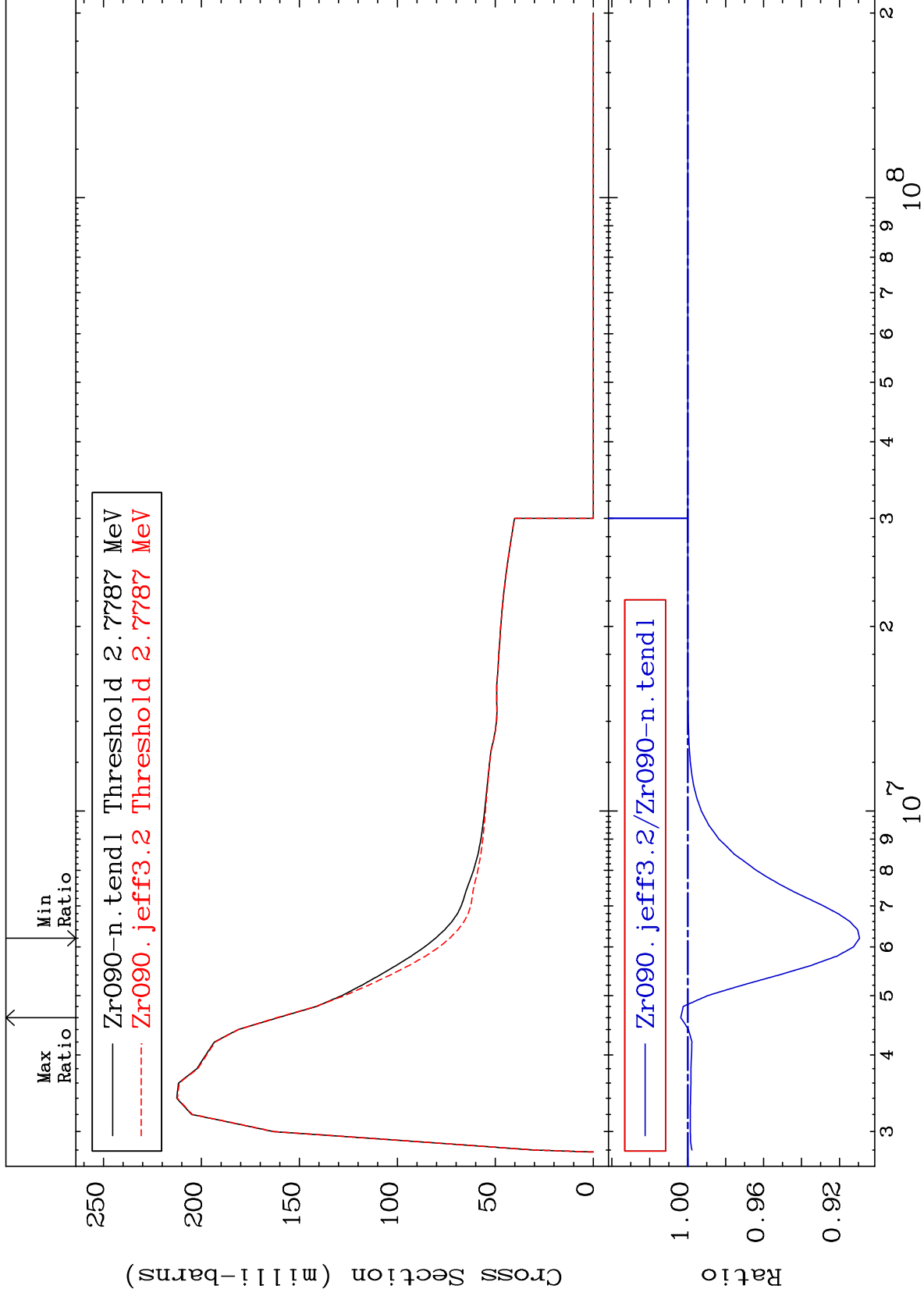
40-Zr-90
-82.36 To 1.020 %



MAT 4025

2.748 MeV (n,n') Level
Cross Section

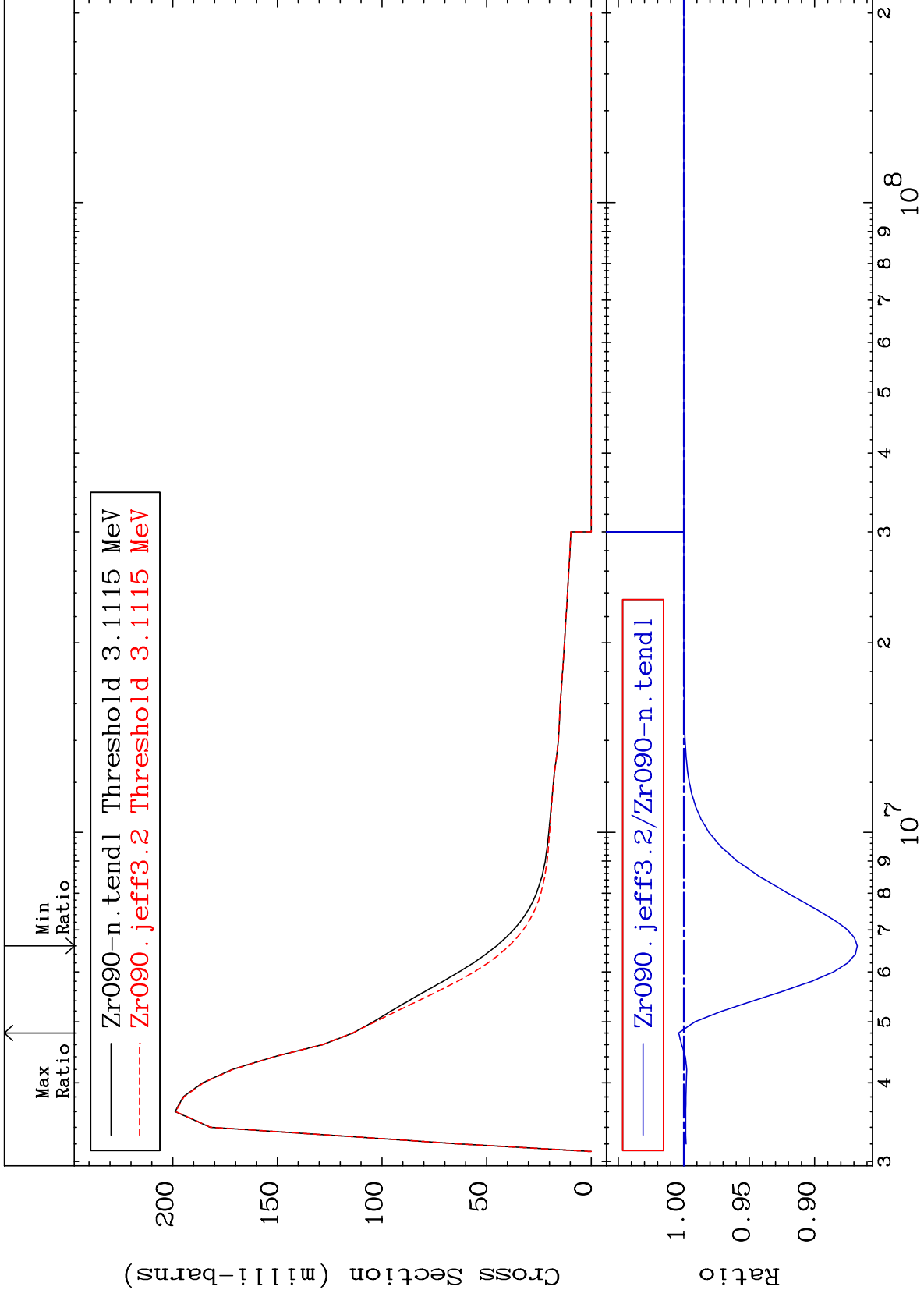
40-Zr-90
-9.057 To 0.368 %



MAT 4025

3.077 MeV (n,n') Level
Cross Section

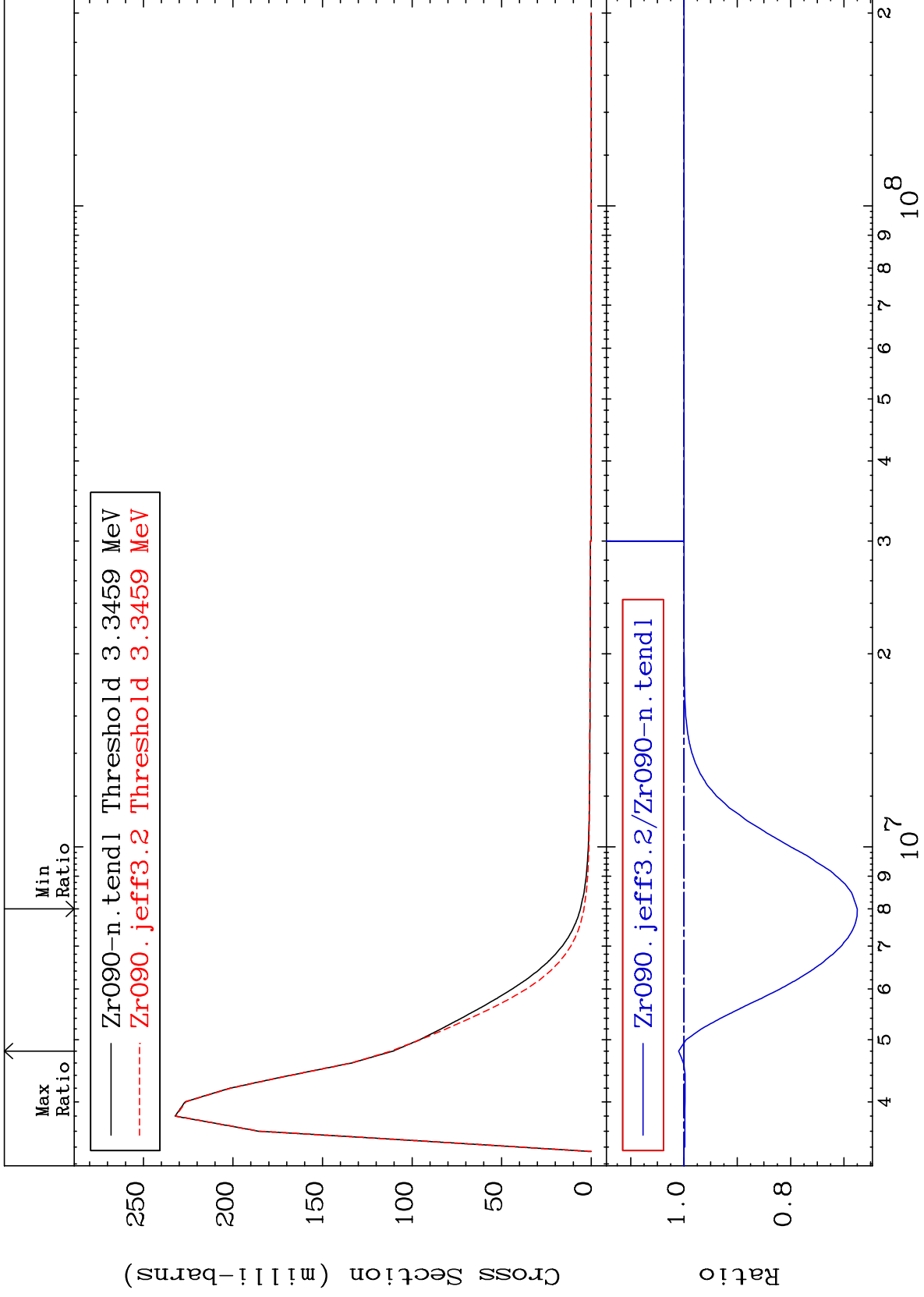
40-Zr-90
-13.25 To 0.392 %



MAT 4025

3.309 MeV (n,n') Level
Cross Section

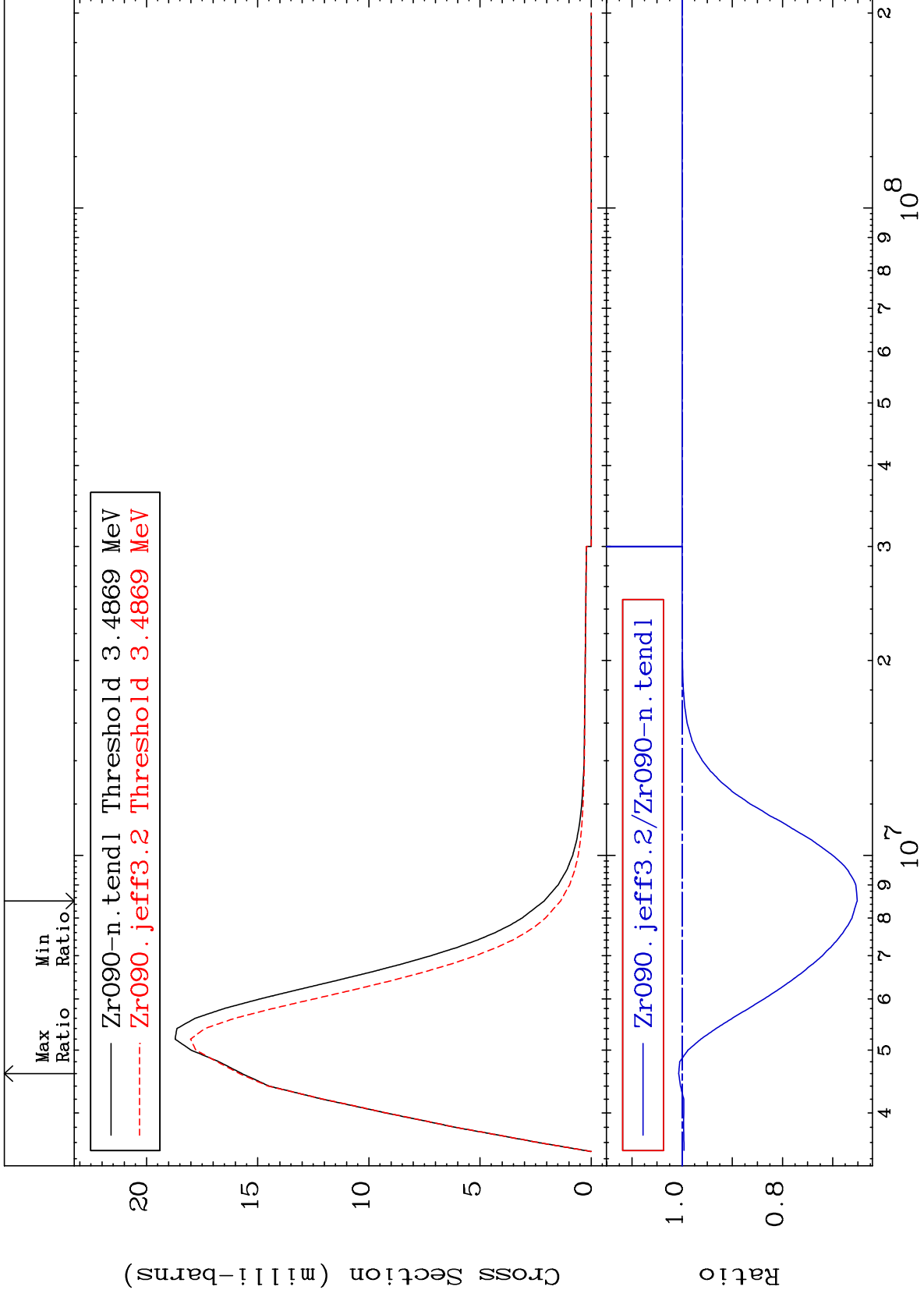
40-Zr-90
-32.50 To 1.002 %



MAT 4025

3.448 MeV (n,n') Level
Cross Section

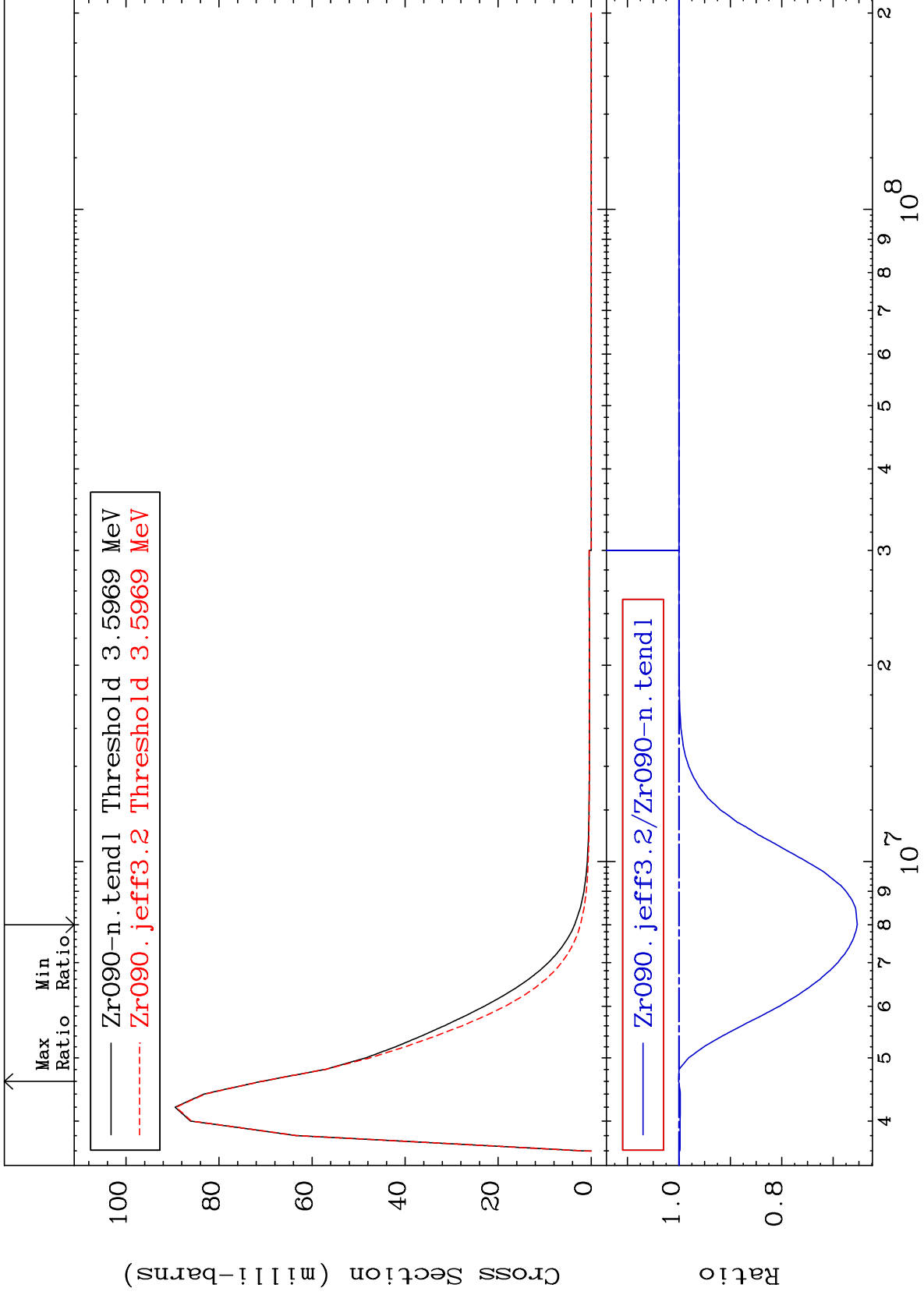
40-Zr-90
-34.90 To 0.696 %



MAT 4025

3.557 MeV (n,n') Level
Cross Section

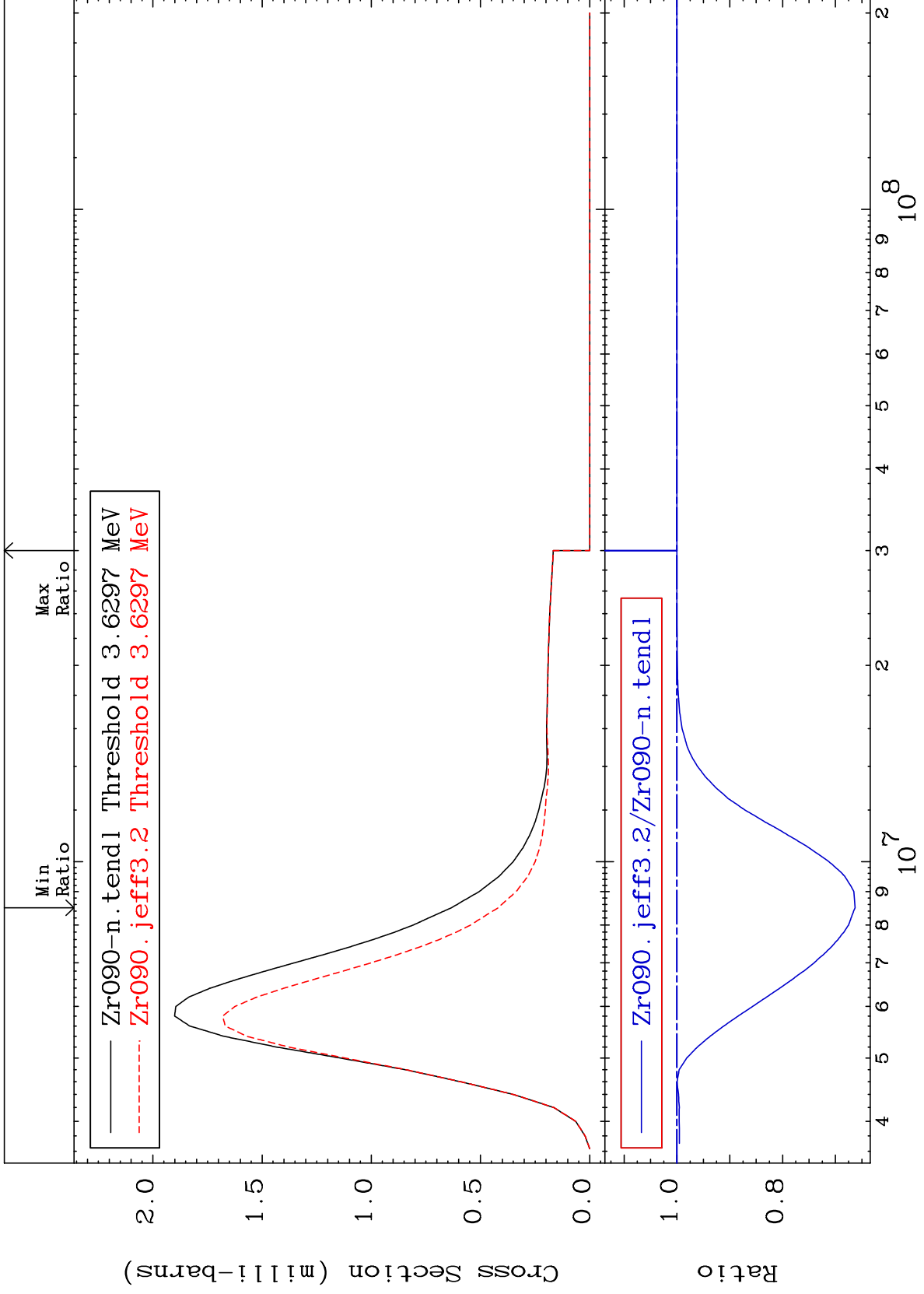
40-Zr-90
-34.68 To 0.060 %



MAT 4025

3.589 MeV (n,n') Level
Cross Section

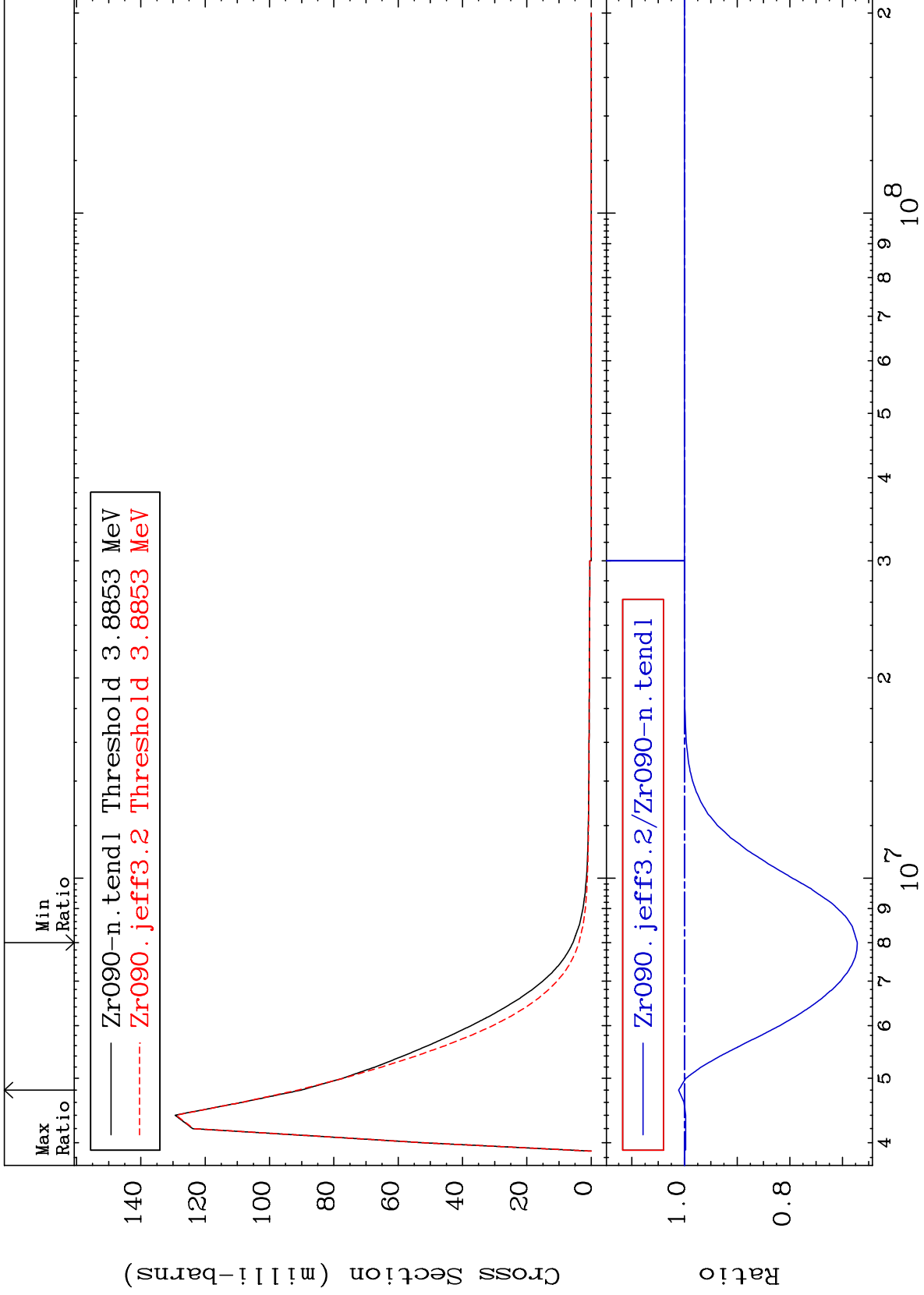
40-Zr-90
-33.72 To 0.000 %



MAT 4025

3.842 MeV (n,n') Level
Cross Section

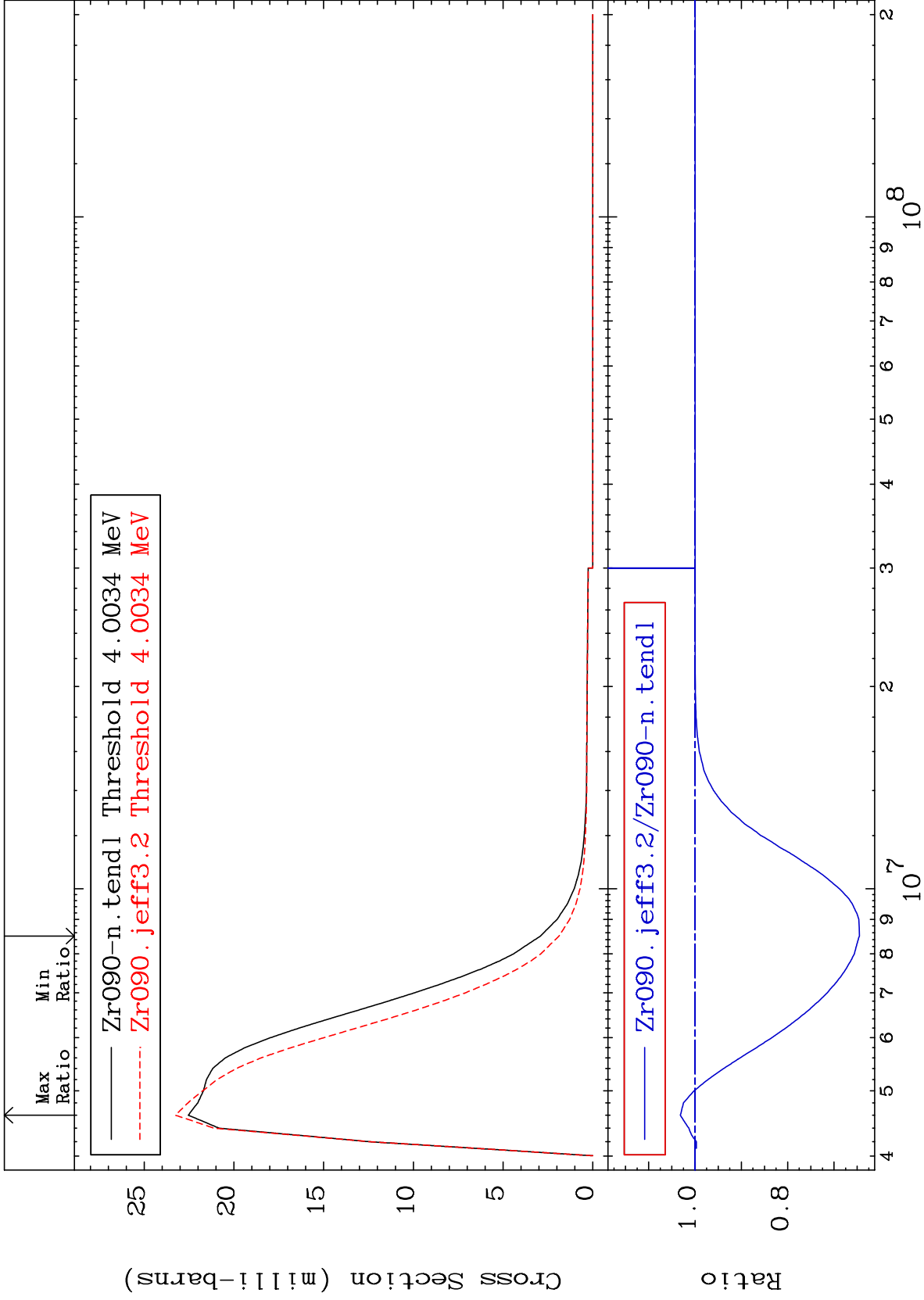
40-Zr-90
-32.81 To 1.114 %



MAT 4025

3.959 MeV (n,n') Level
Cross Section

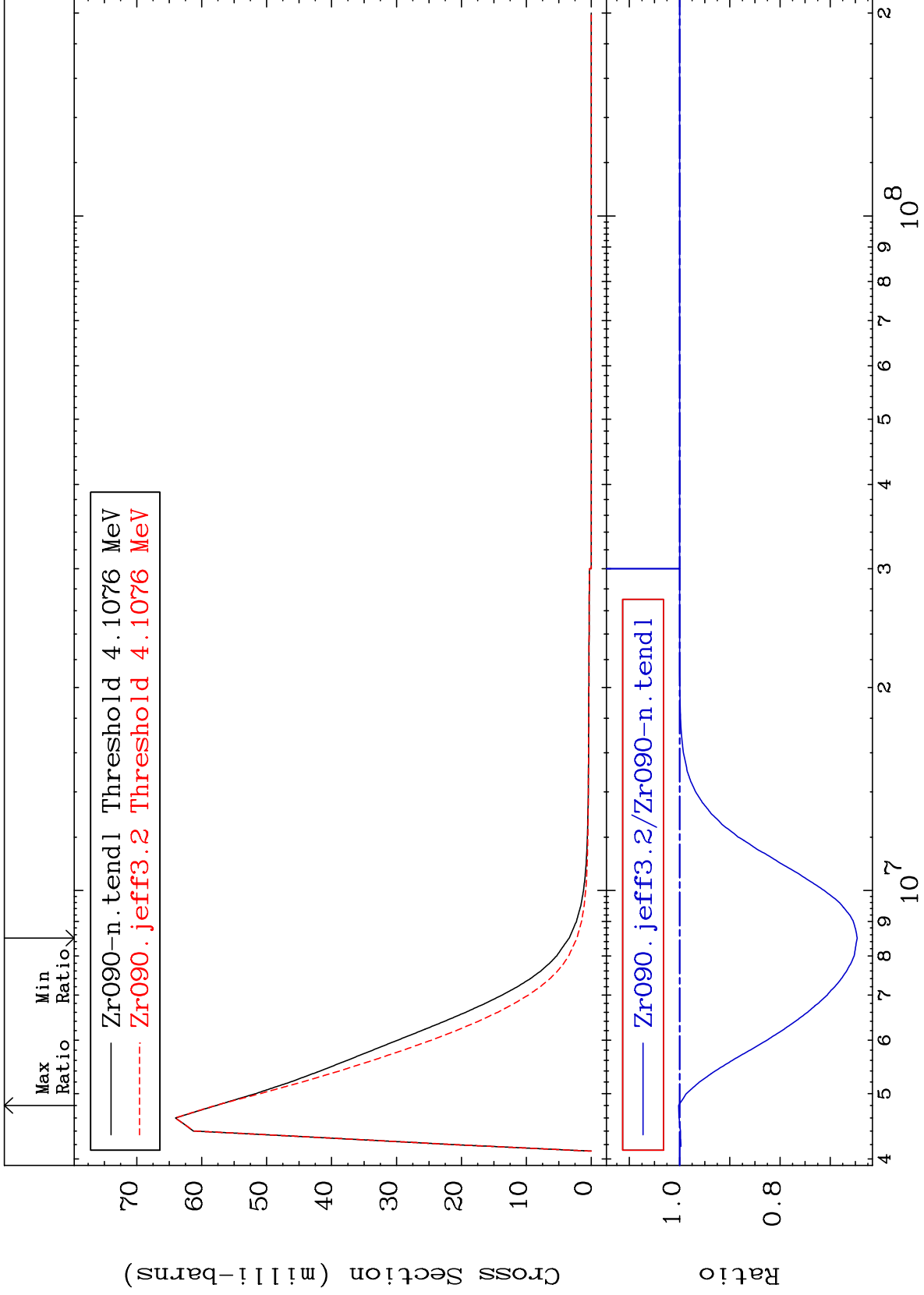
40-Zr-90
-35.49 To 3.164 %



MAT 4025

4.062 MeV (n,n') Level
Cross Section

40-Zr-90
-35.39 To 0.191 %



30

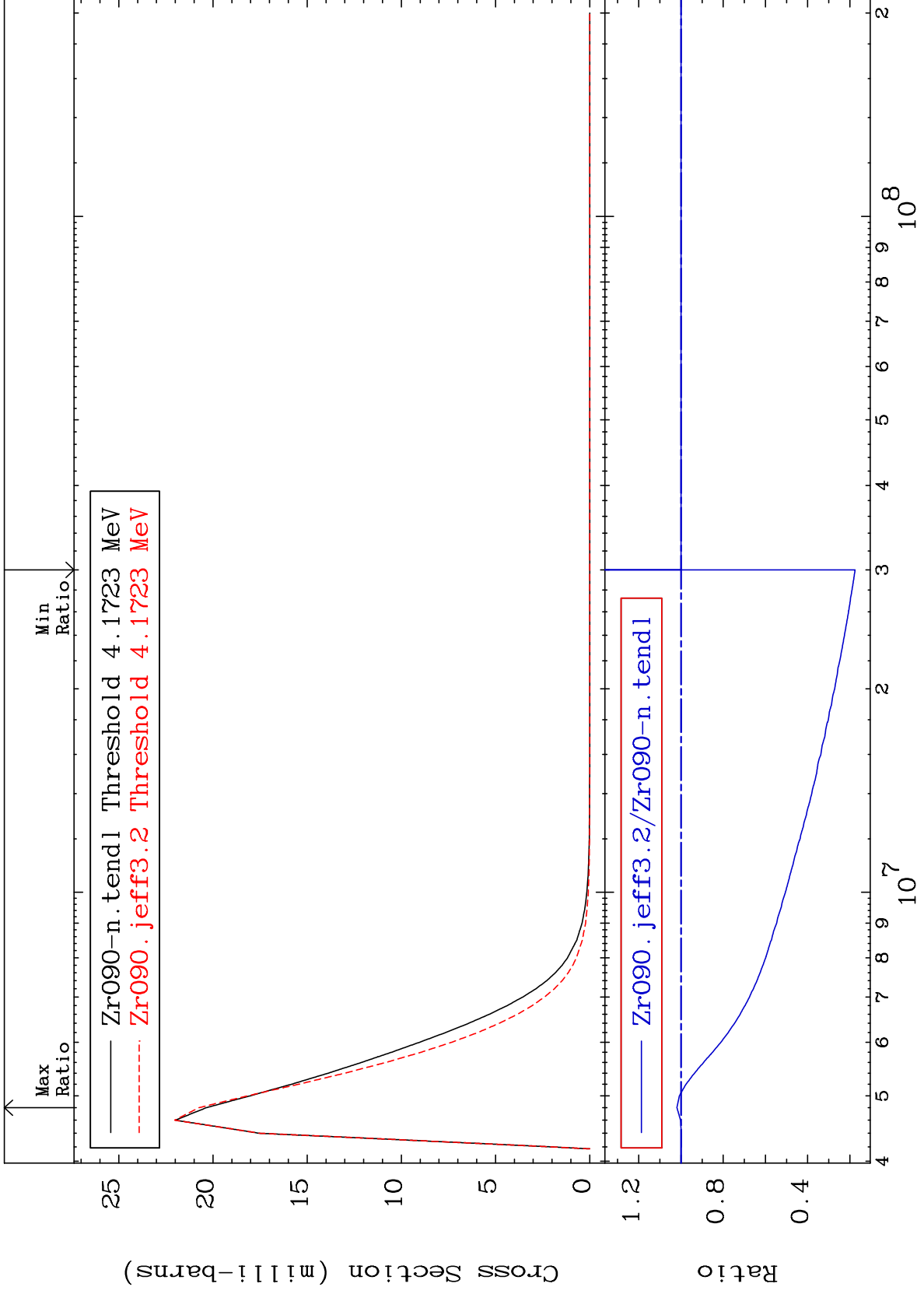
Incident Energy (eV)

40-Zr-90

MAT 4025

4.126 MeV (n,n') Level
Cross Section

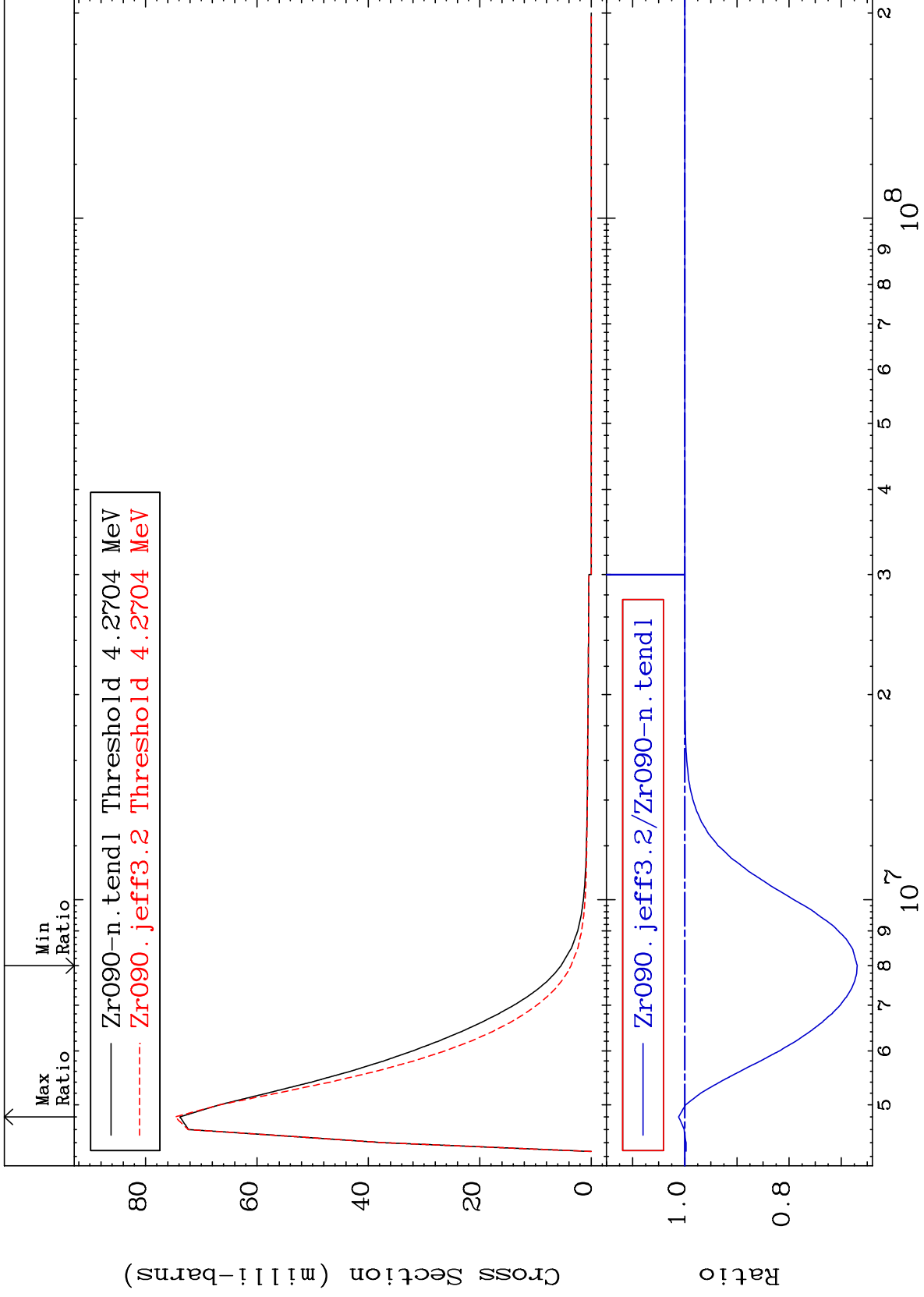
40-Zr-90
-82.45 To 1.923 %



MAT 4025

4.223 MeV (n,n') Level
Cross Section

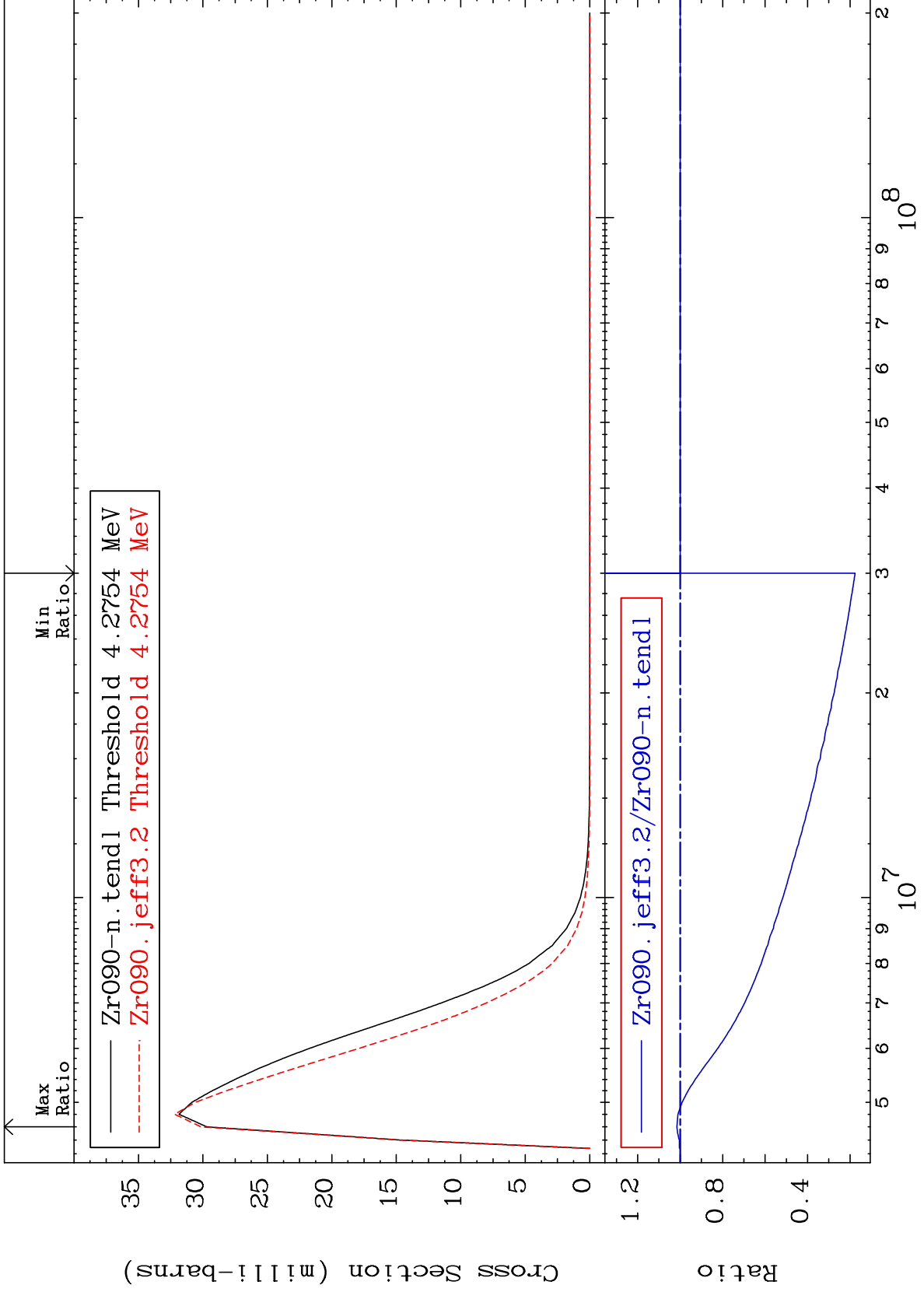
40-Zr-90
-33.08 To 1.180 %



MAT 4025

4.228 MeV (n,n') Level
Cross Section

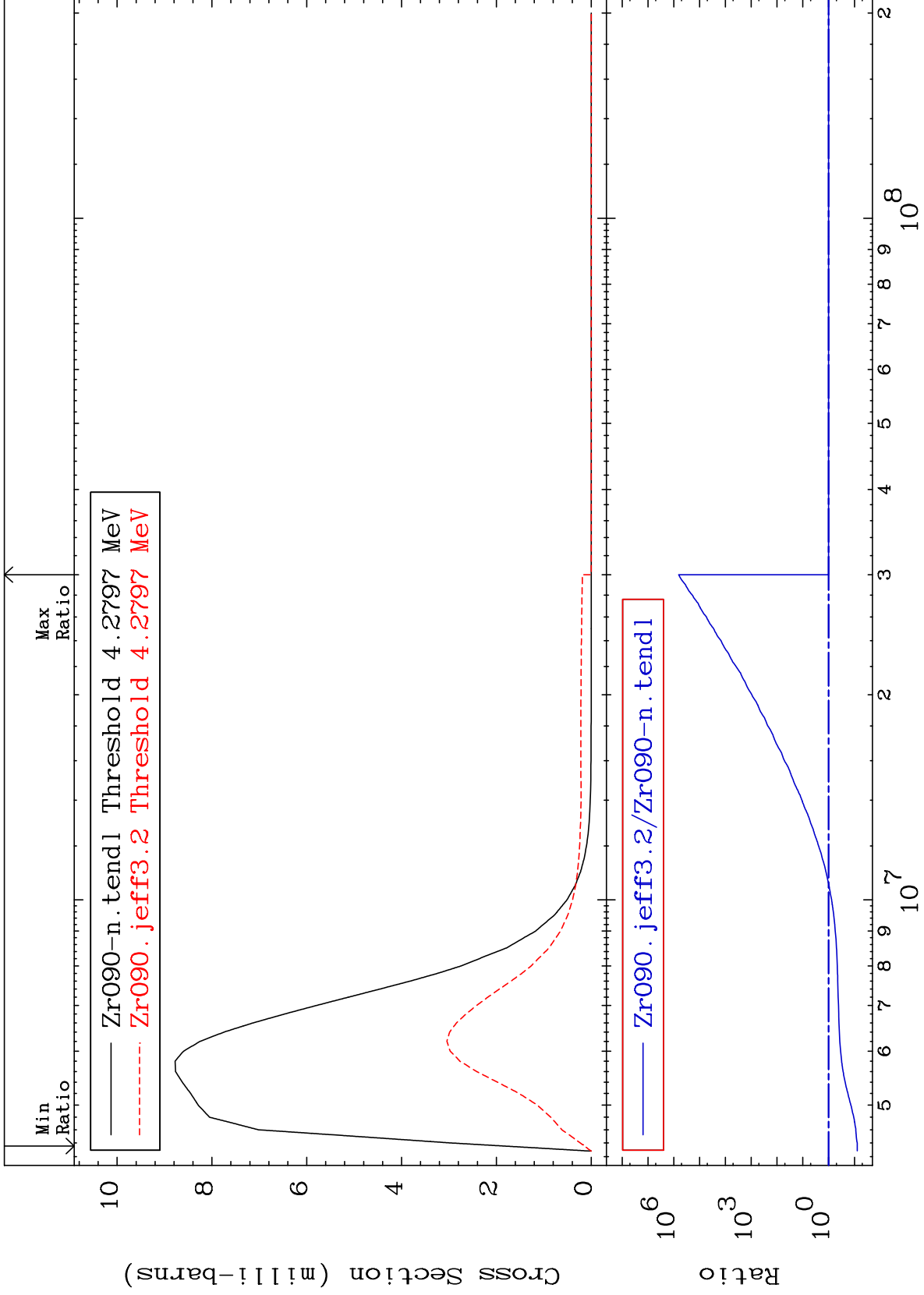
40-Zr-90
-82.37 To 1.527 %



MAT 4025

4.232 MeV (n,n') Level
Cross Section

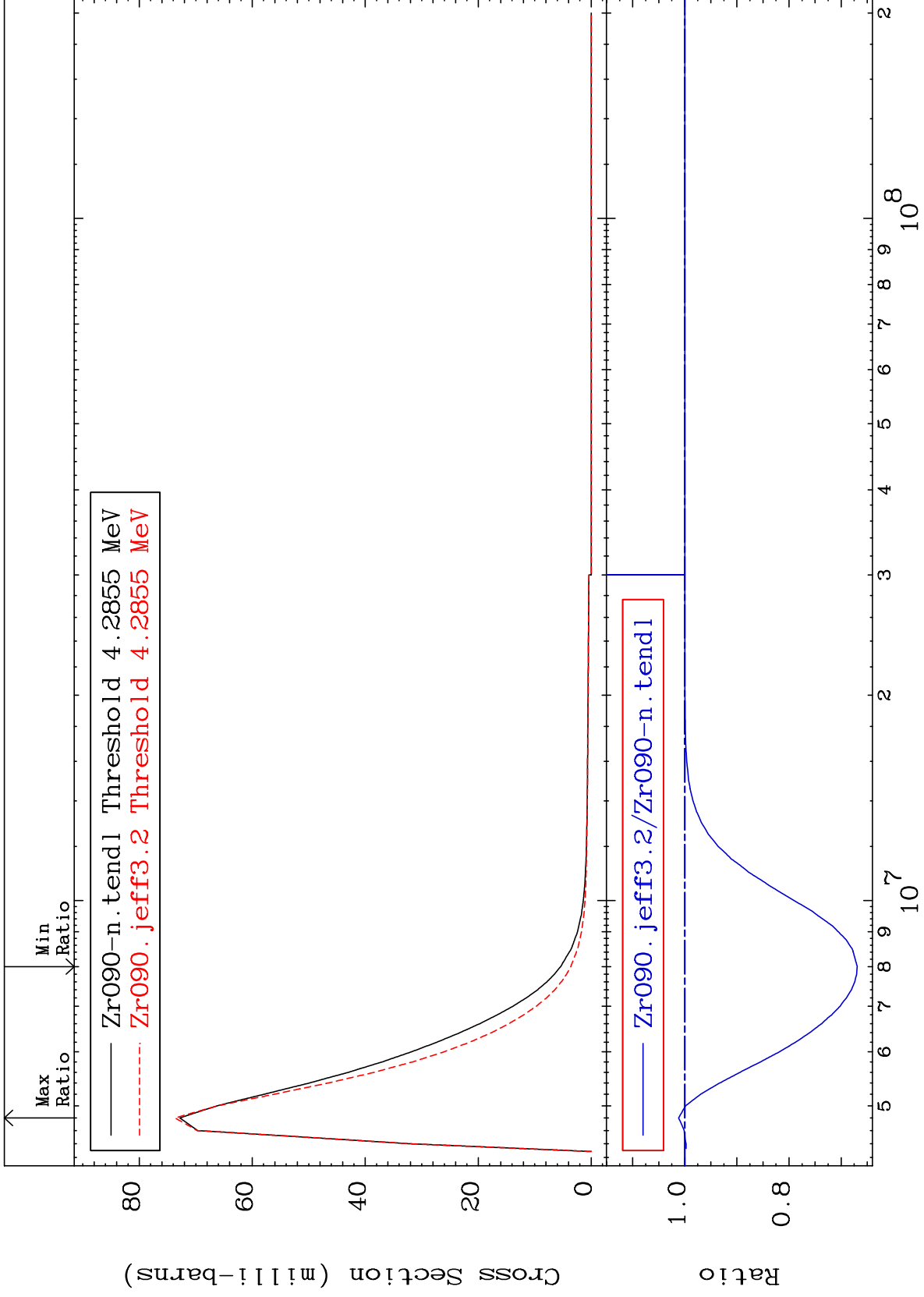
40-Zr-90
-92.21 To 9999. %



MAT 4025

4.238 MeV (n,n') Level
Cross Section

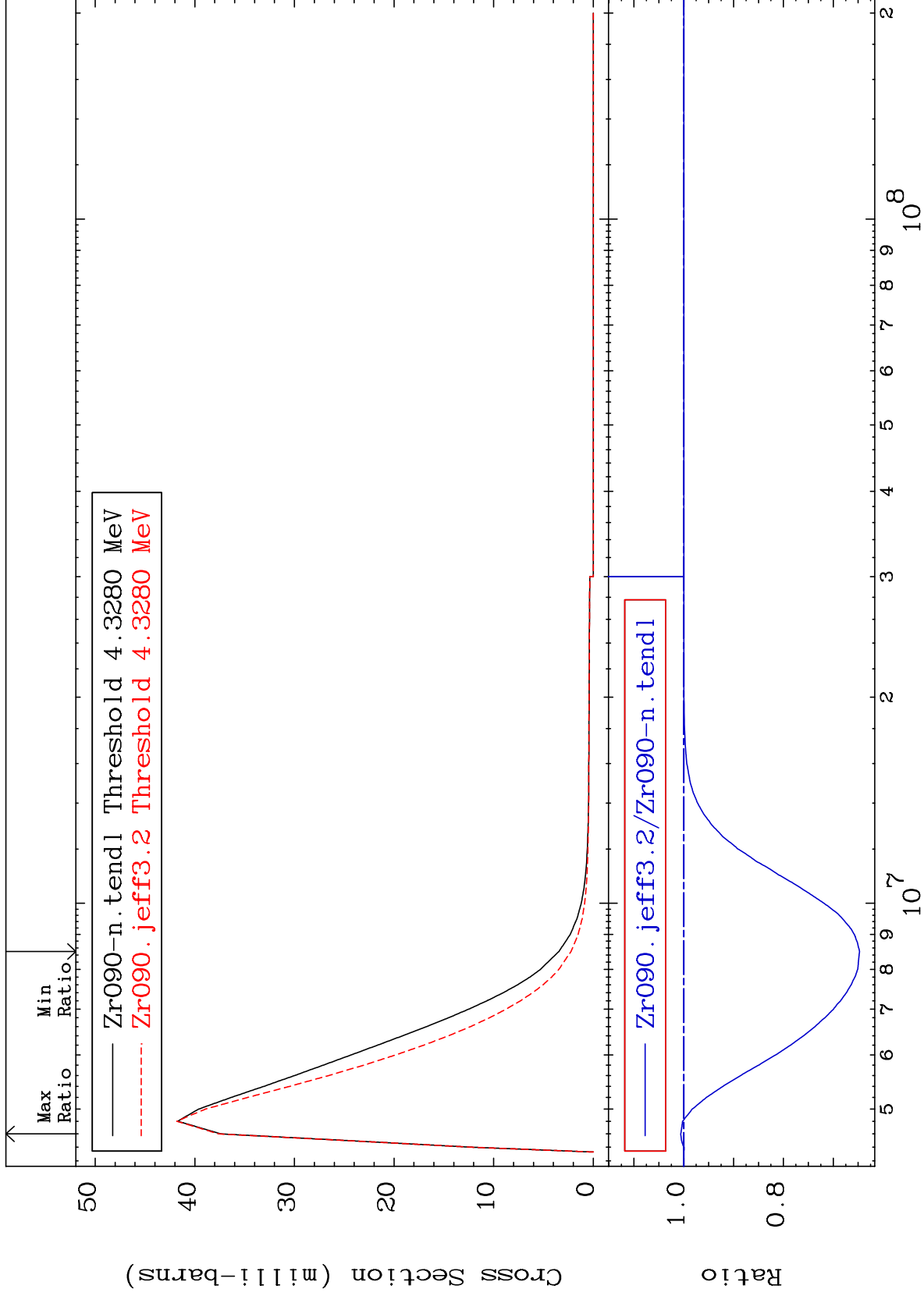
40-Zr-90
-33.09 To 1.182 %



MAT 4025

4.280 MeV (n,n') Level
Cross Section

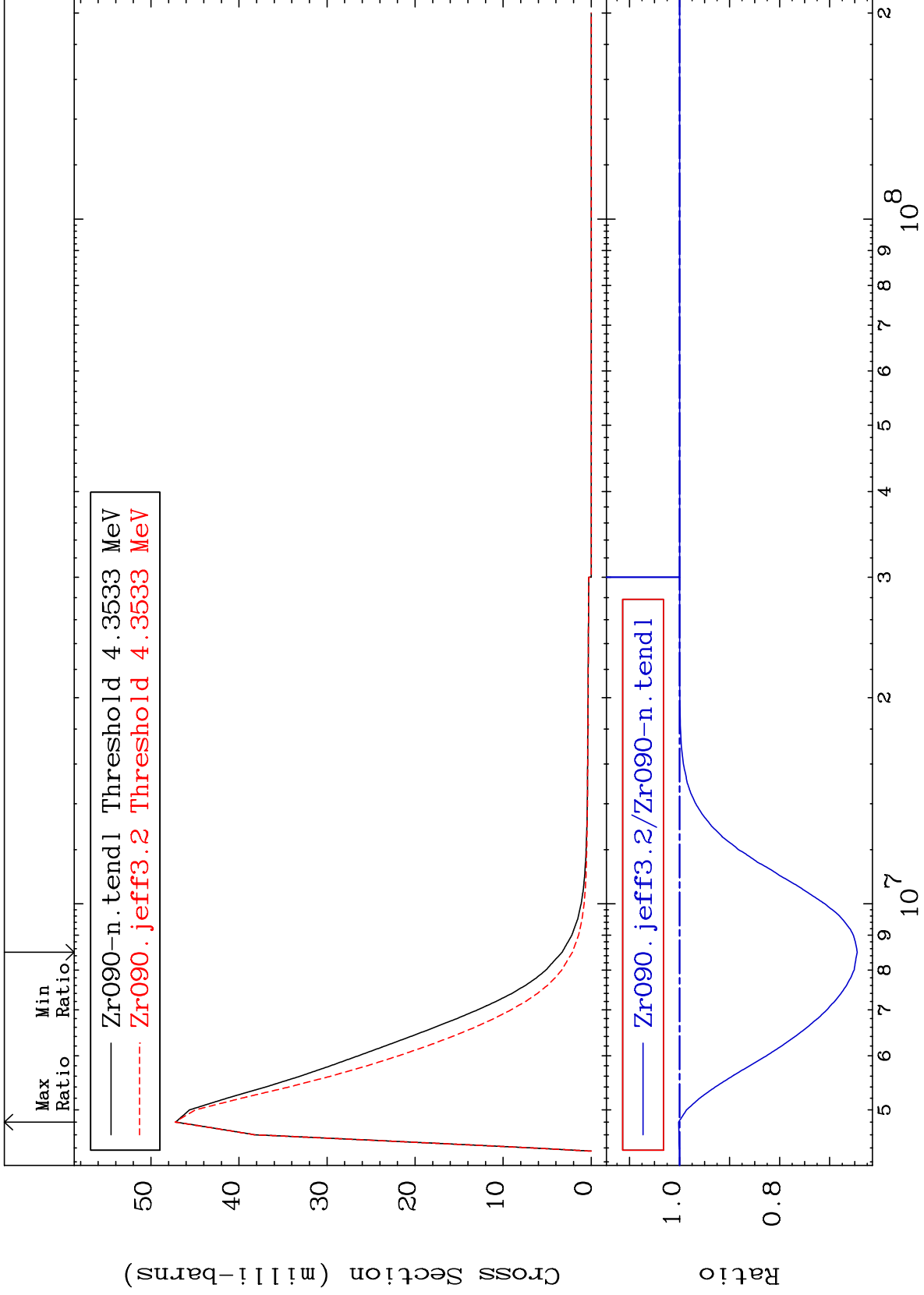
40-Zr-90
-35.27 To 0.599 %



MAT 4025

4.305 MeV (n,n') Level
Cross Section

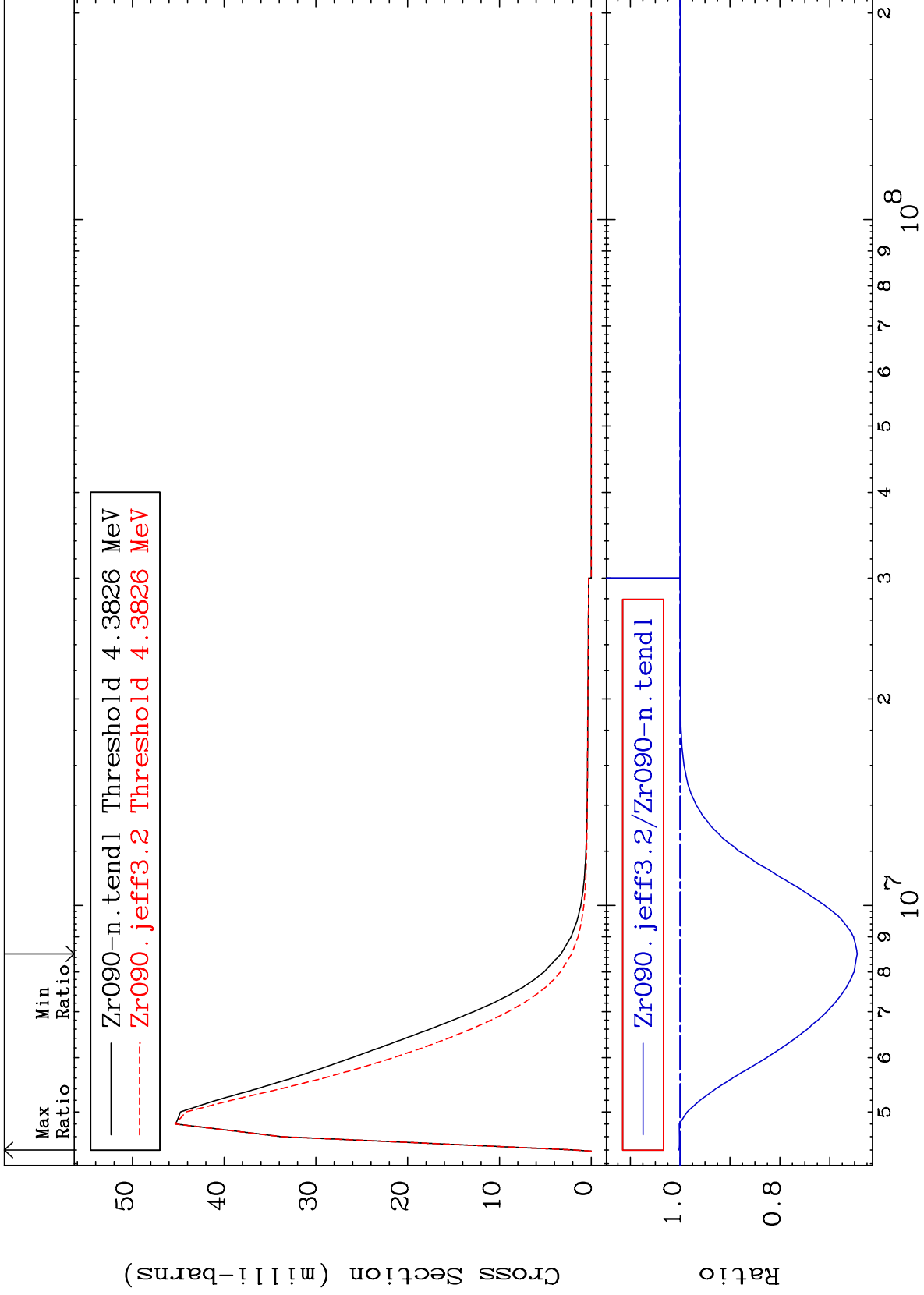
40-Zr-90
-35.51 To 0.185 %



MAT 4025

4.334 MeV (n,n') Level
Cross Section

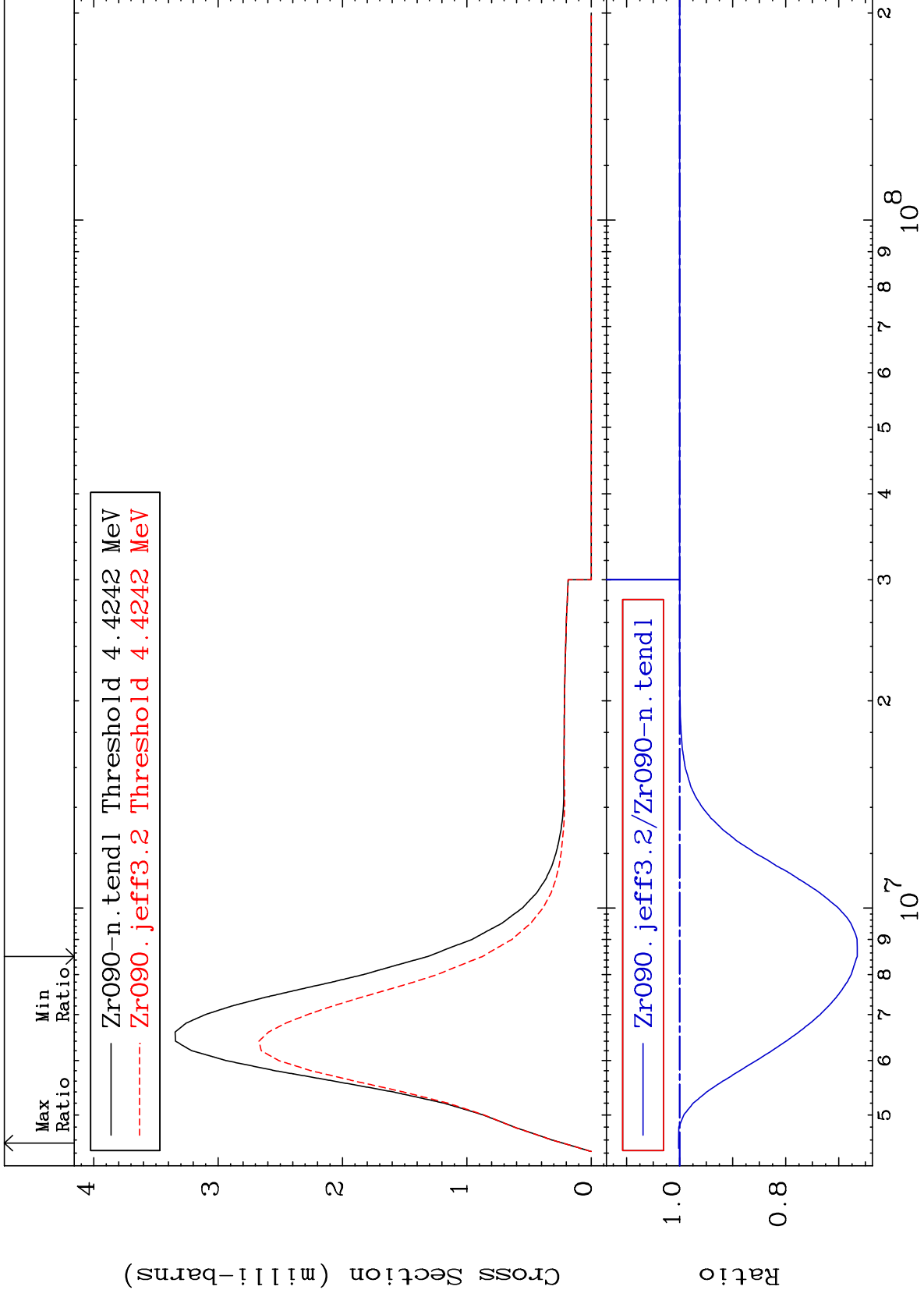
40-Zr-90
-35.52 To 0.306 %



MAT 4025

4.375 MeV (n,n') Level
Cross Section

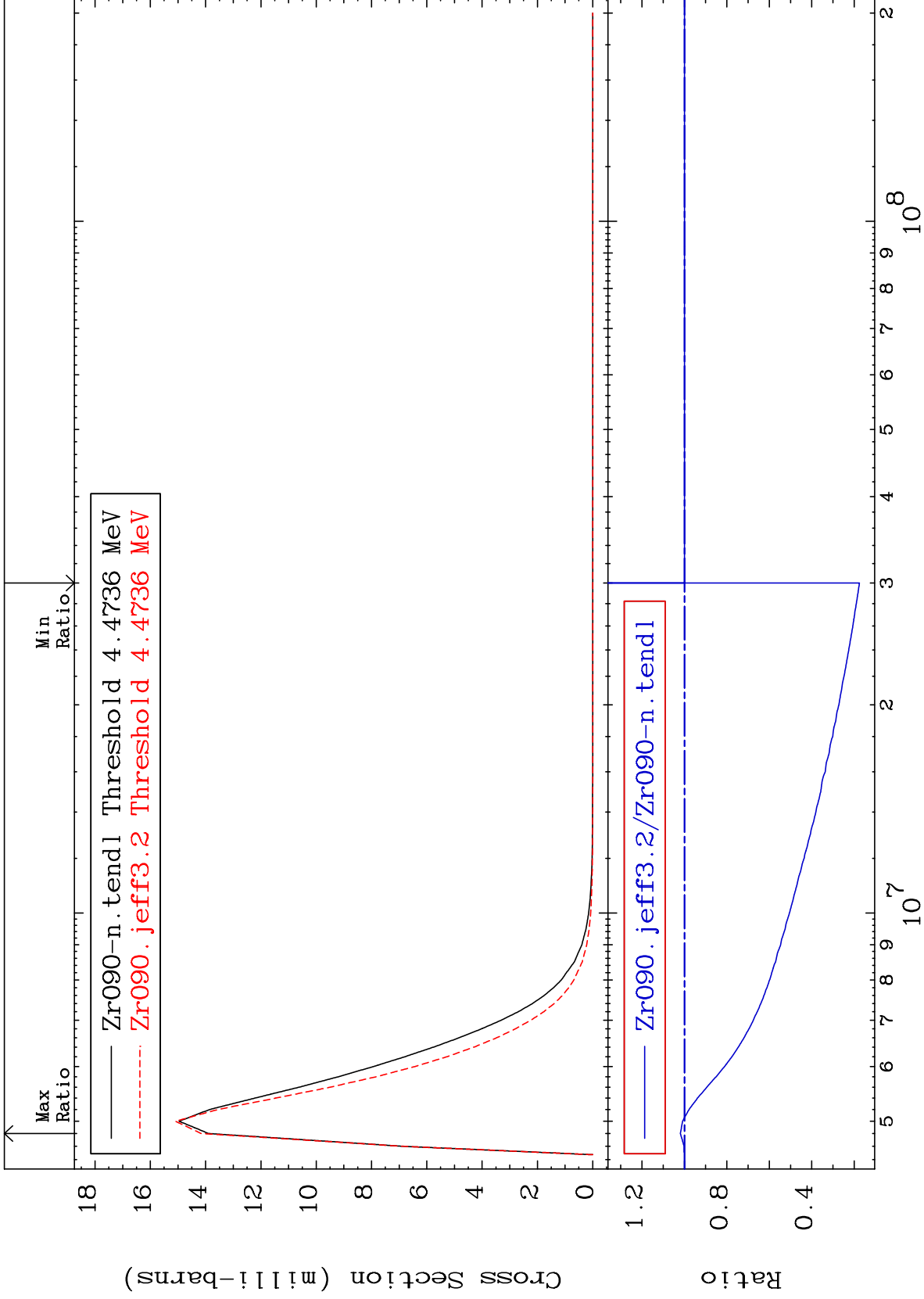
40-Zr-90
-33.48 To 0.191 %



MAT 4025

4.424 MeV (n,n') Level
Cross Section

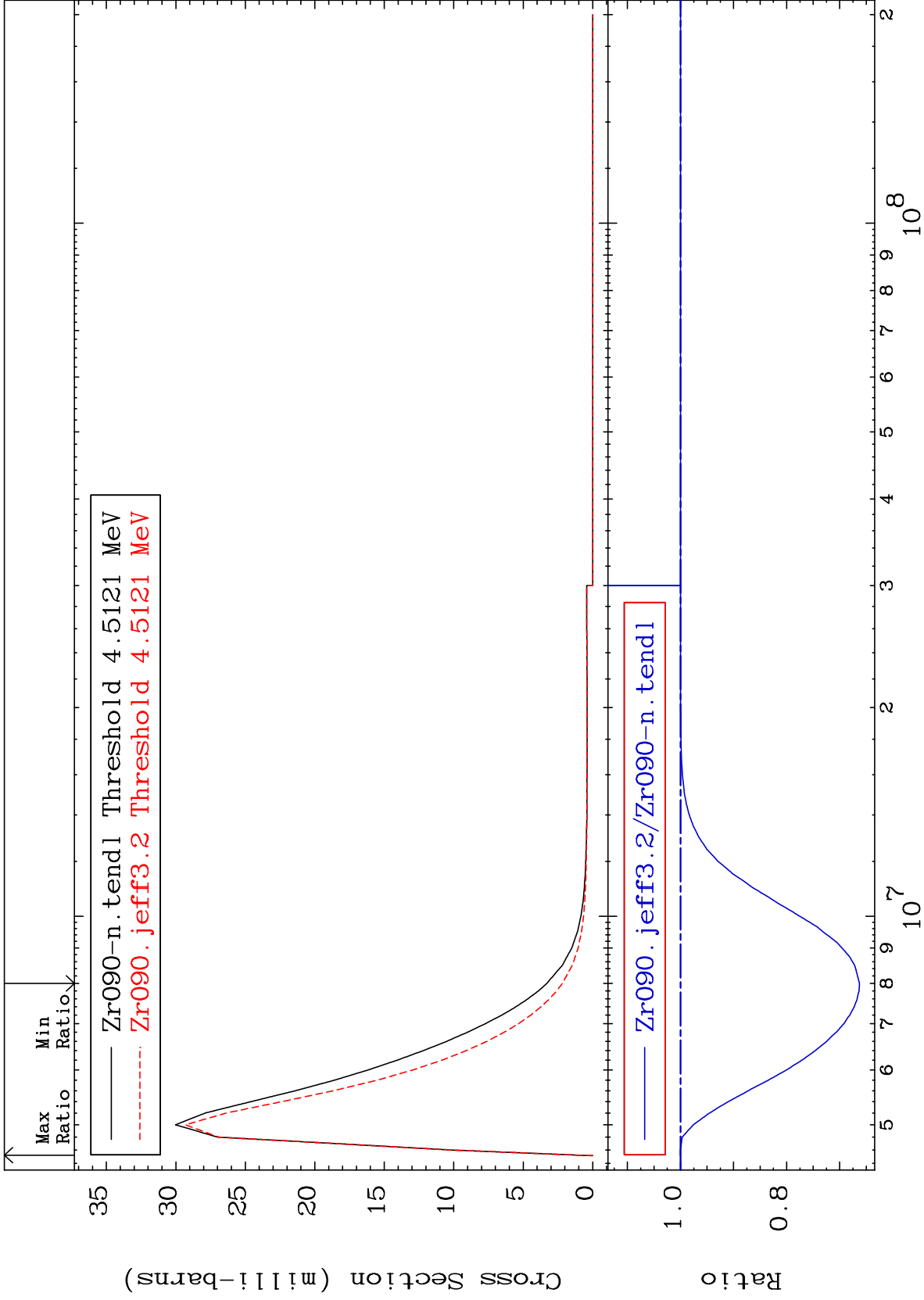
40-Zr-90
-82.46 To 1.909 %



MAT 4025

4.462 MeV (n,n') Level
Cross Section

40-Zr-90
-33.72 To 0.026 %



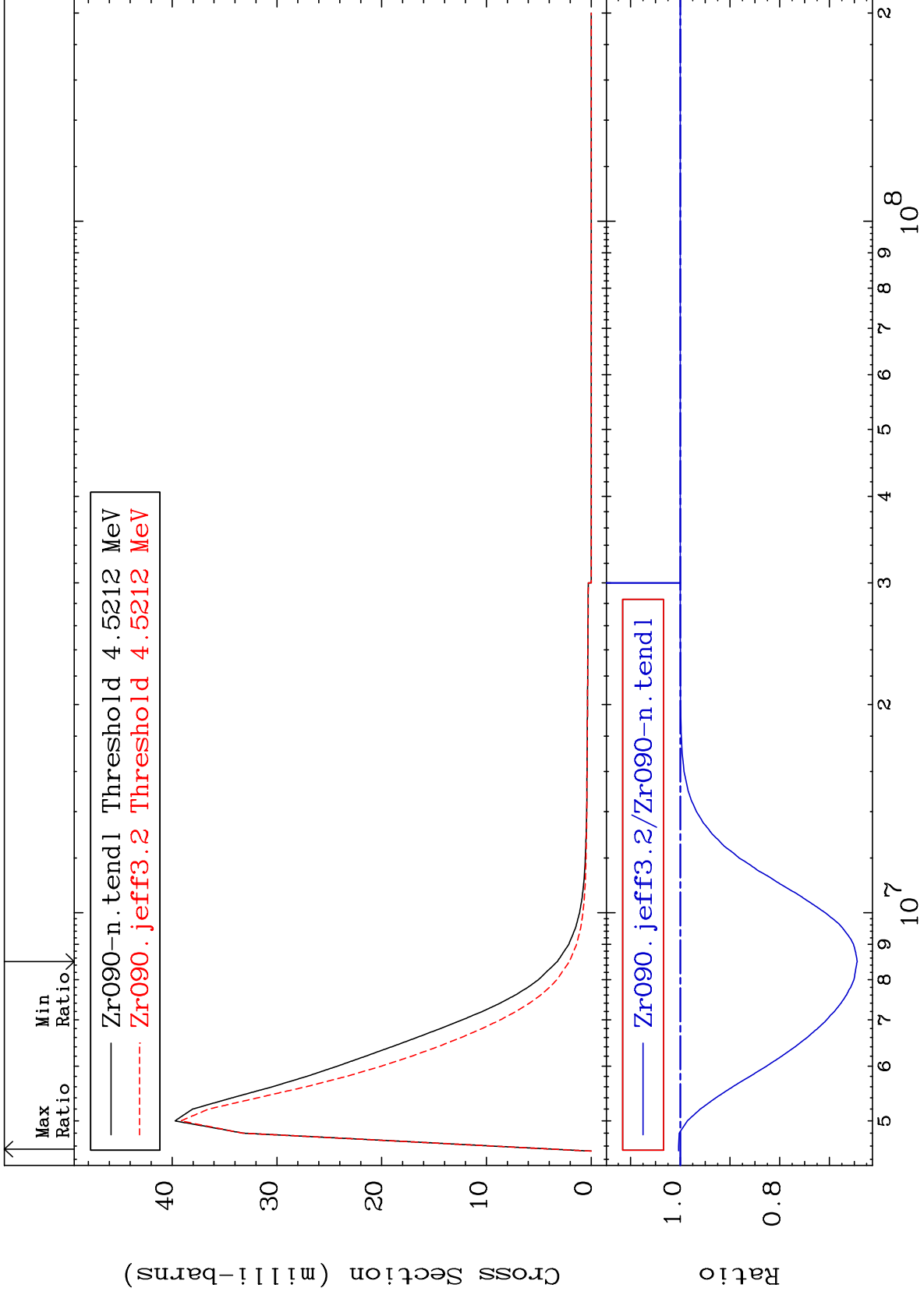
41

40-Zr-90

MAT 4025

4.471 MeV (n,n') Level
Cross Section

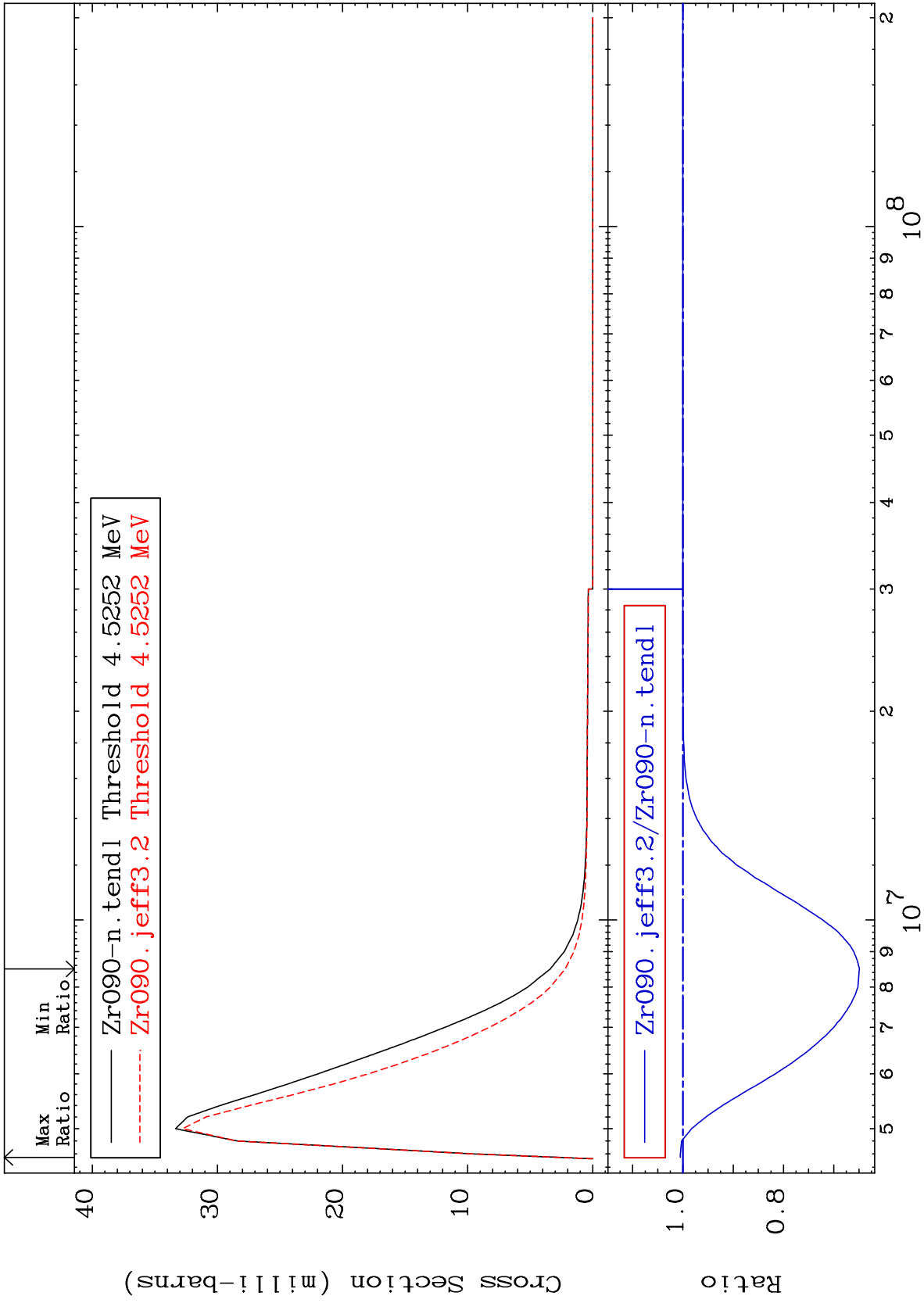
40-Zr-90
-35.60 To 0.343 %



MAT 4025

4.475 MeV (n,n') Level
Cross Section

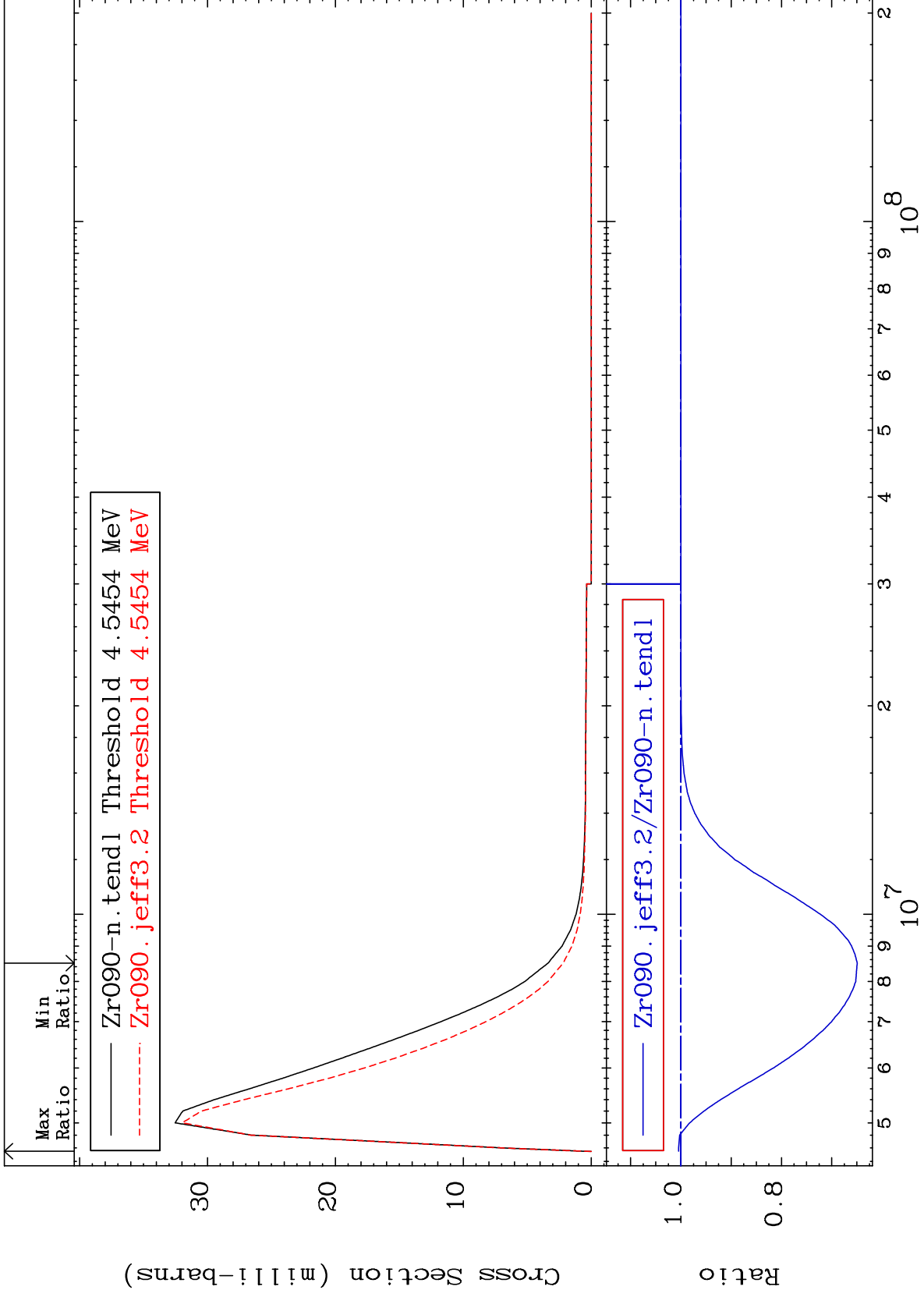
40-Zr-90
-35.10 To 0.507 %



MAT 4025

4.495 MeV (n,n') Level
Cross Section

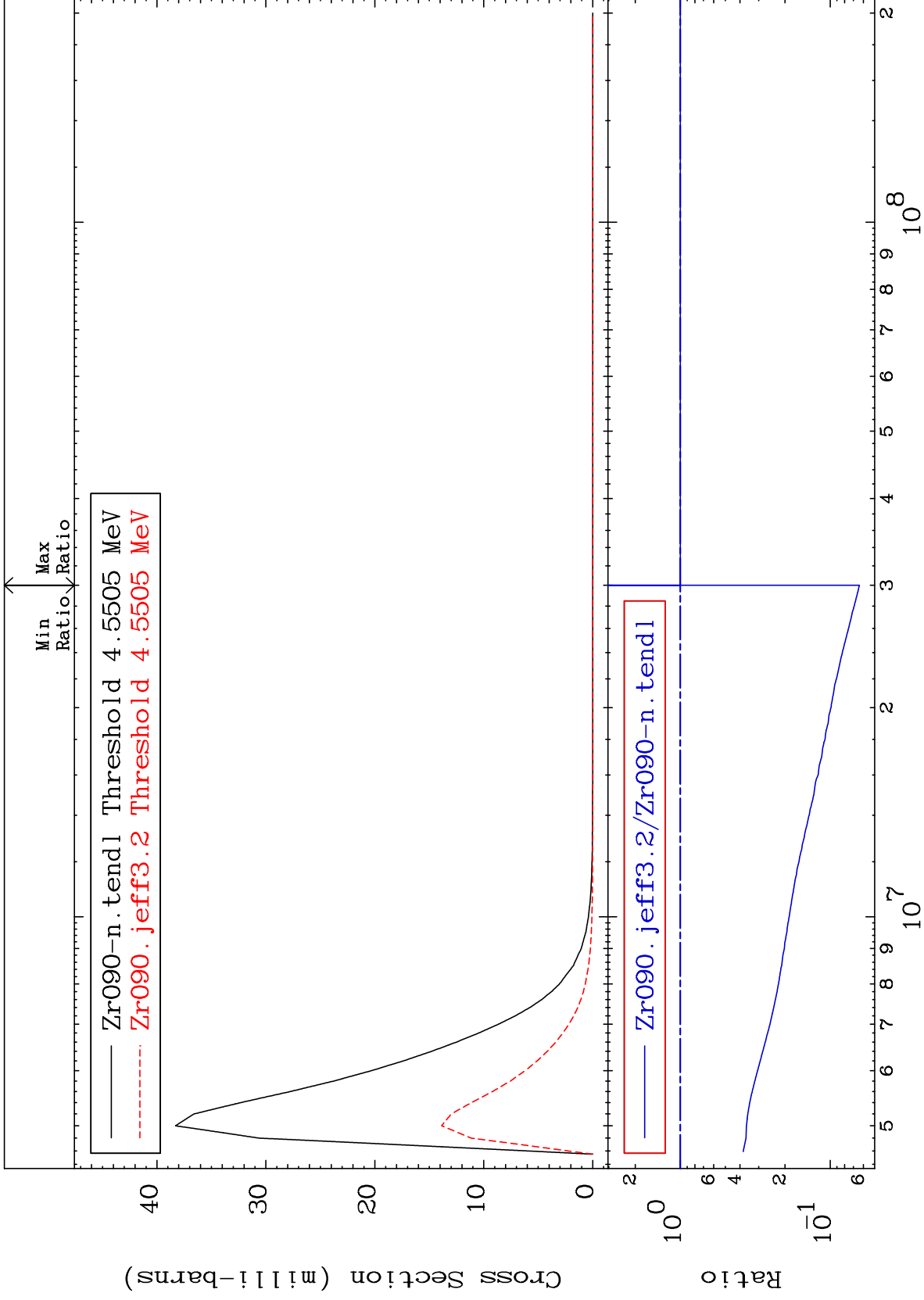
40-Zr-90
-35.08 To 0.453 %



MAT 4025

4.500 MeV (n,n') Level
Cross Section

40-Zr-90
-93.62 To 0.000 %



45

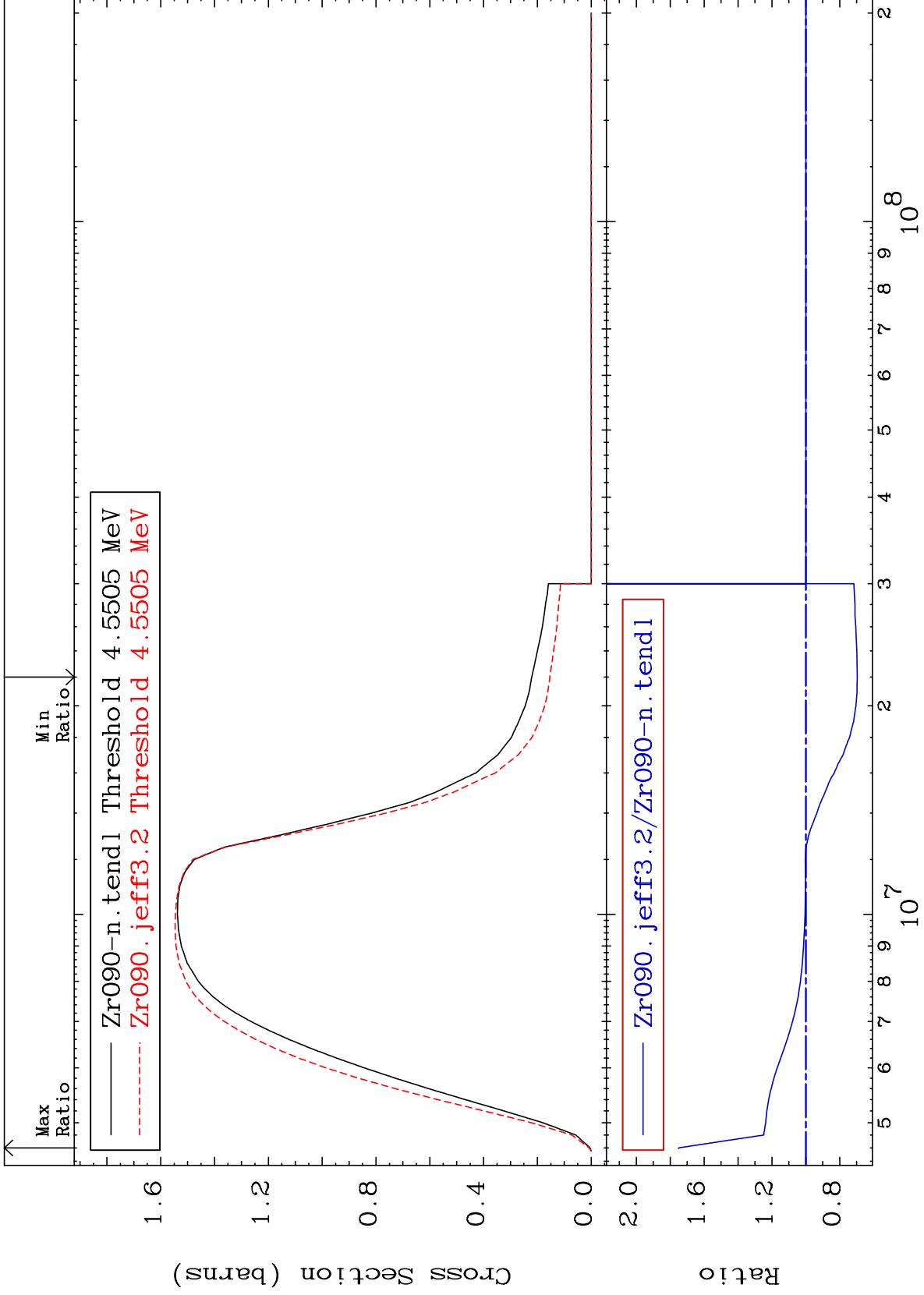
Incident Energy (eV)

40-Zr-90

MAT 4025

(n, n') Continuum
Cross Section

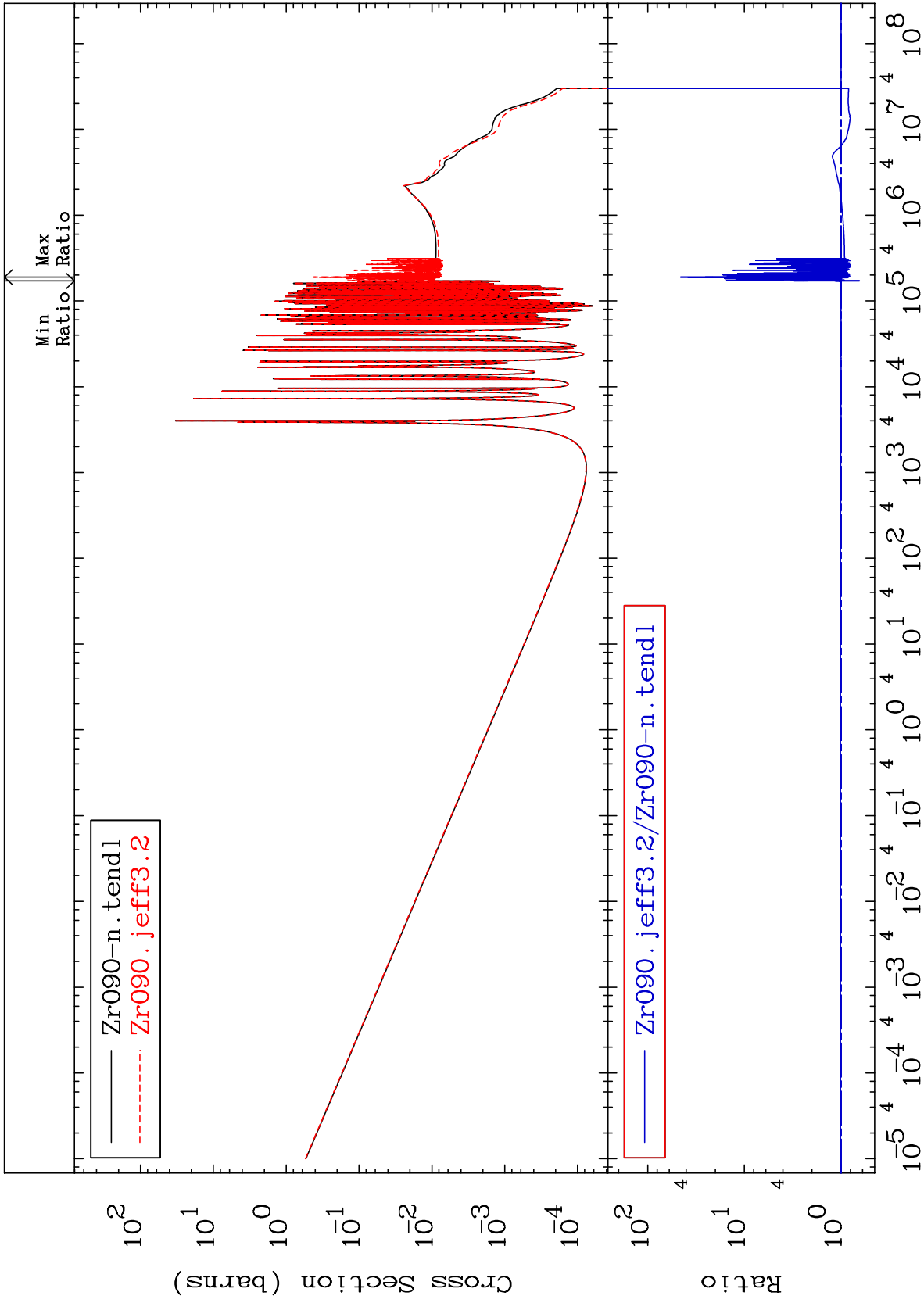
40-Zr-90
-30.36 To 75.04 %



MAT 4025

(n, γ)
Cross Section

40-Zr-90
-35.43 To 4500. %



47

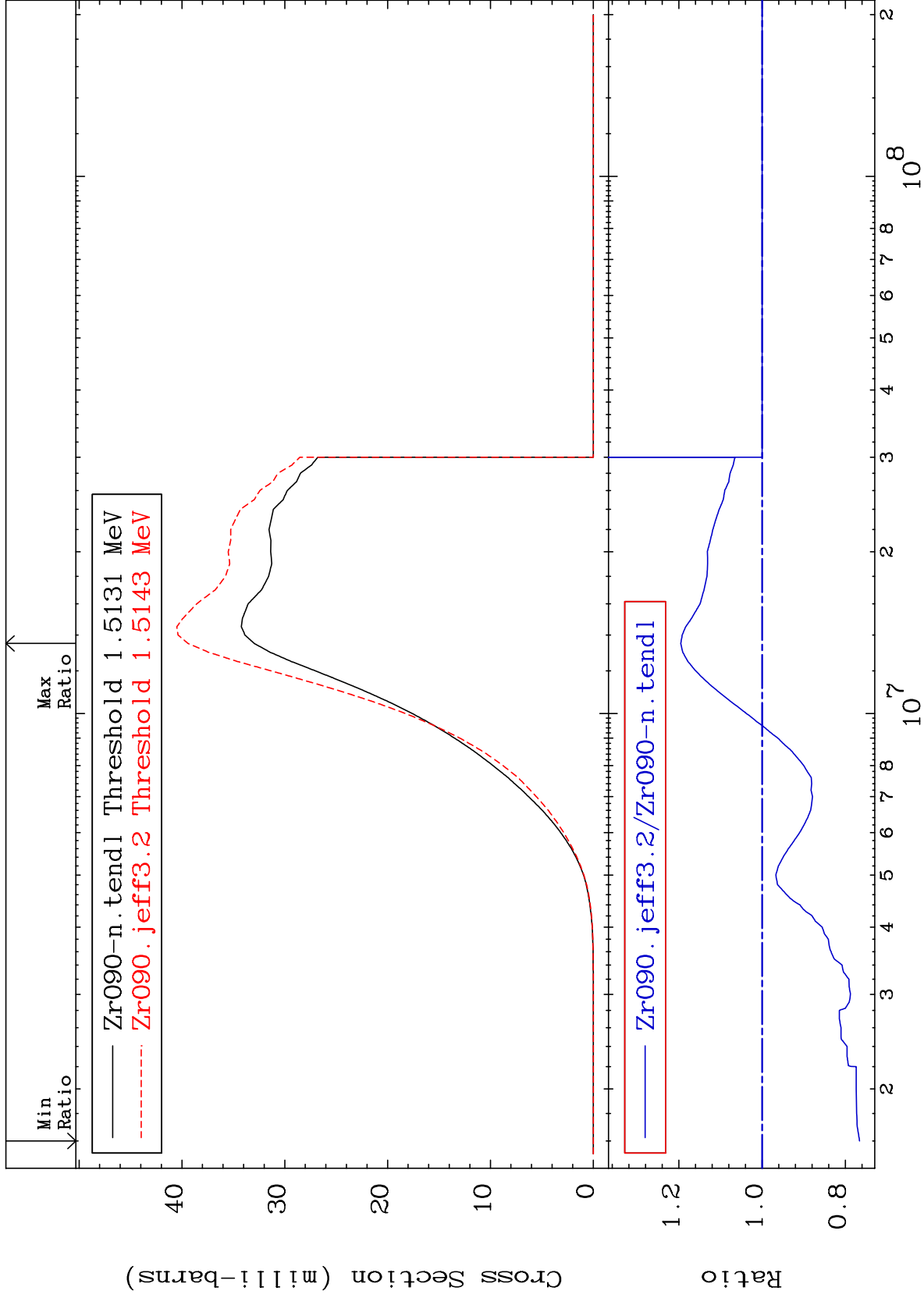
Incident Energy (eV)

40-Zr-90

MAT 4025

(n,p)
Cross Section

40-Zr-90
-23.41 To 19.55 %



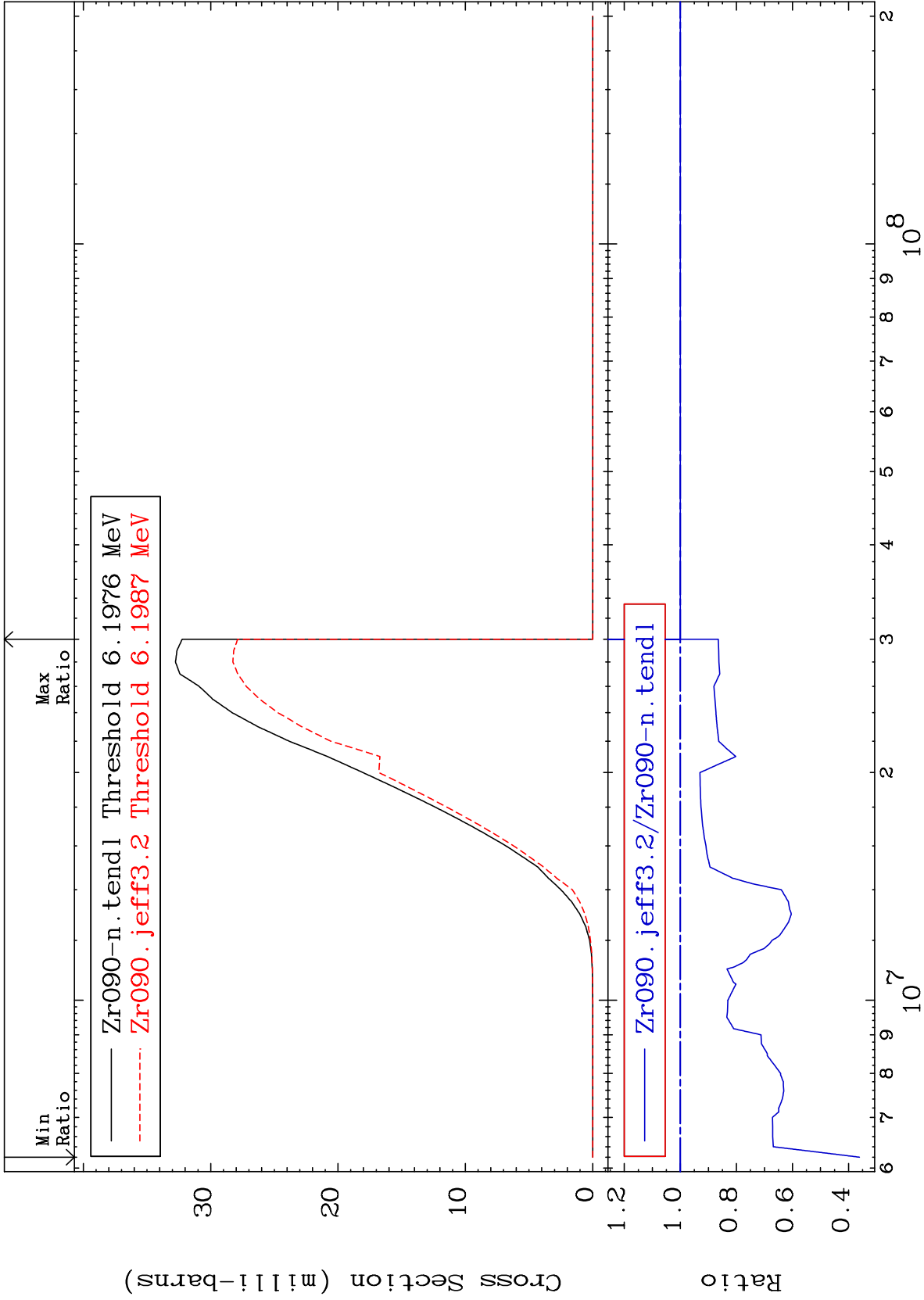
MAT 4025

(n, d)

40-Zr-90

Cross Section

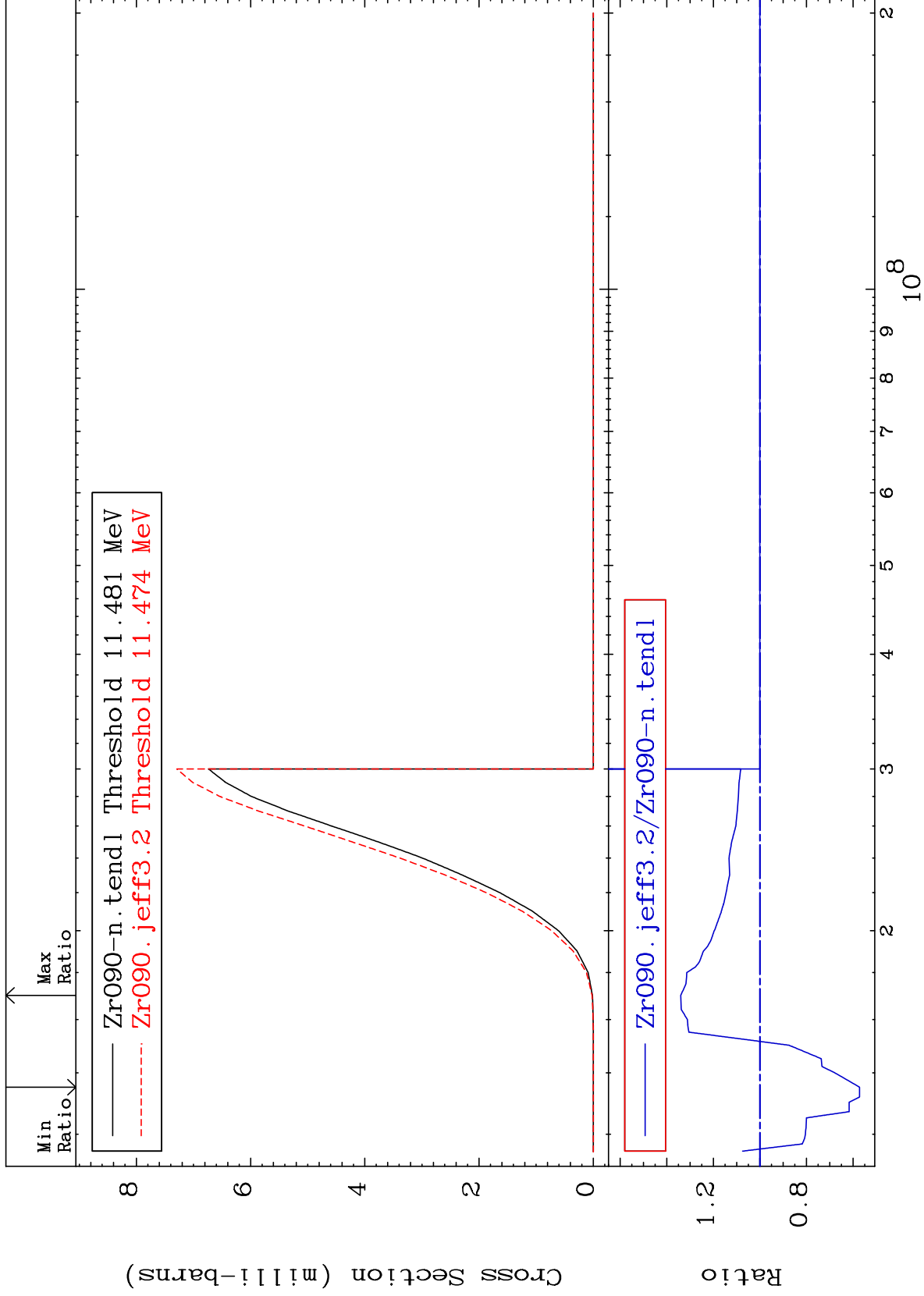
-63.88 To 0.000 %



MAT 4025

(n, t)
Cross Section

40-Zr-90
-42.77 To 33.99 %



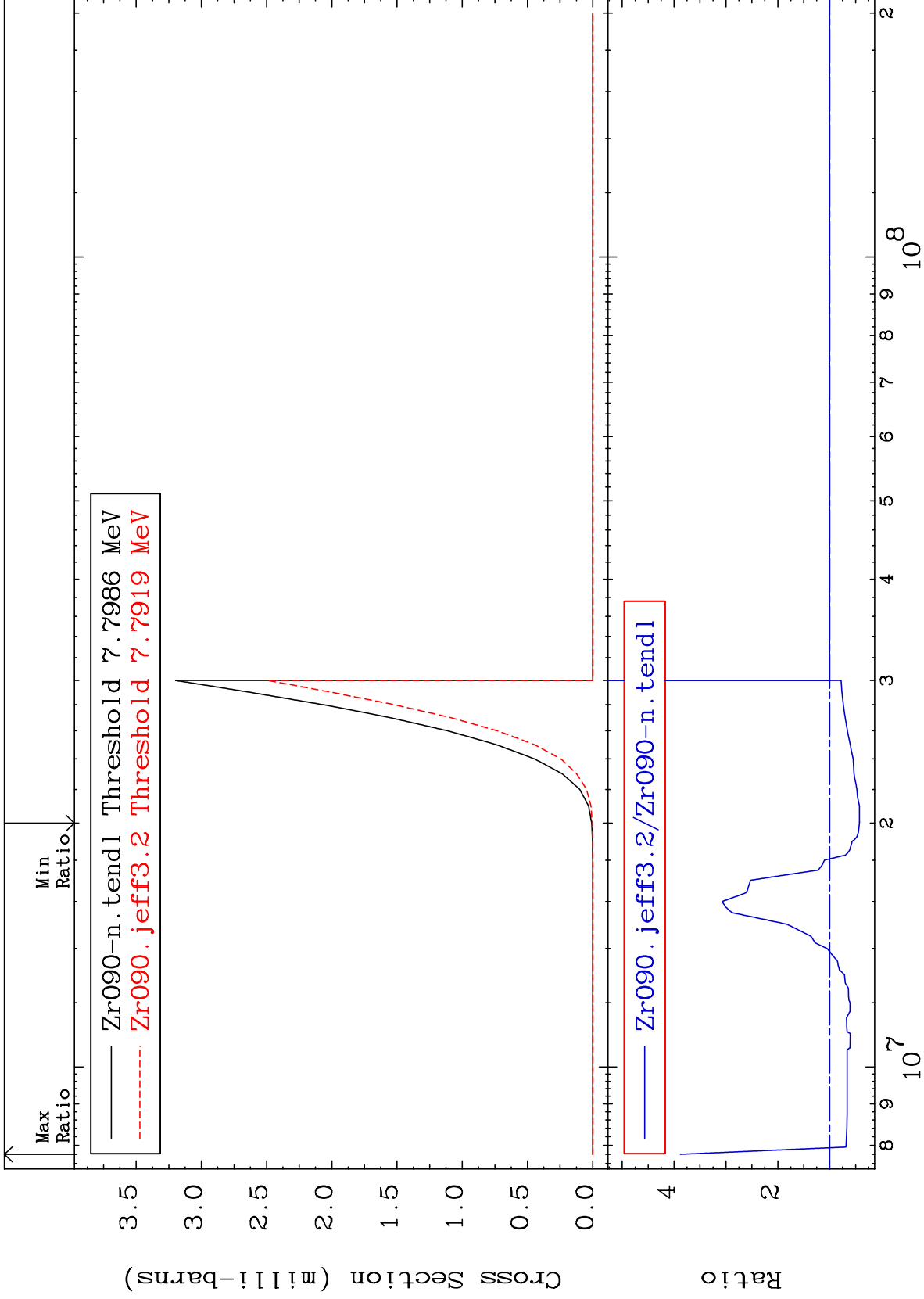
50

40-Zr-90

MAT 4025

(n, He-3)
Cross Section

40-Zr-90
-57.43 To 287.9 %



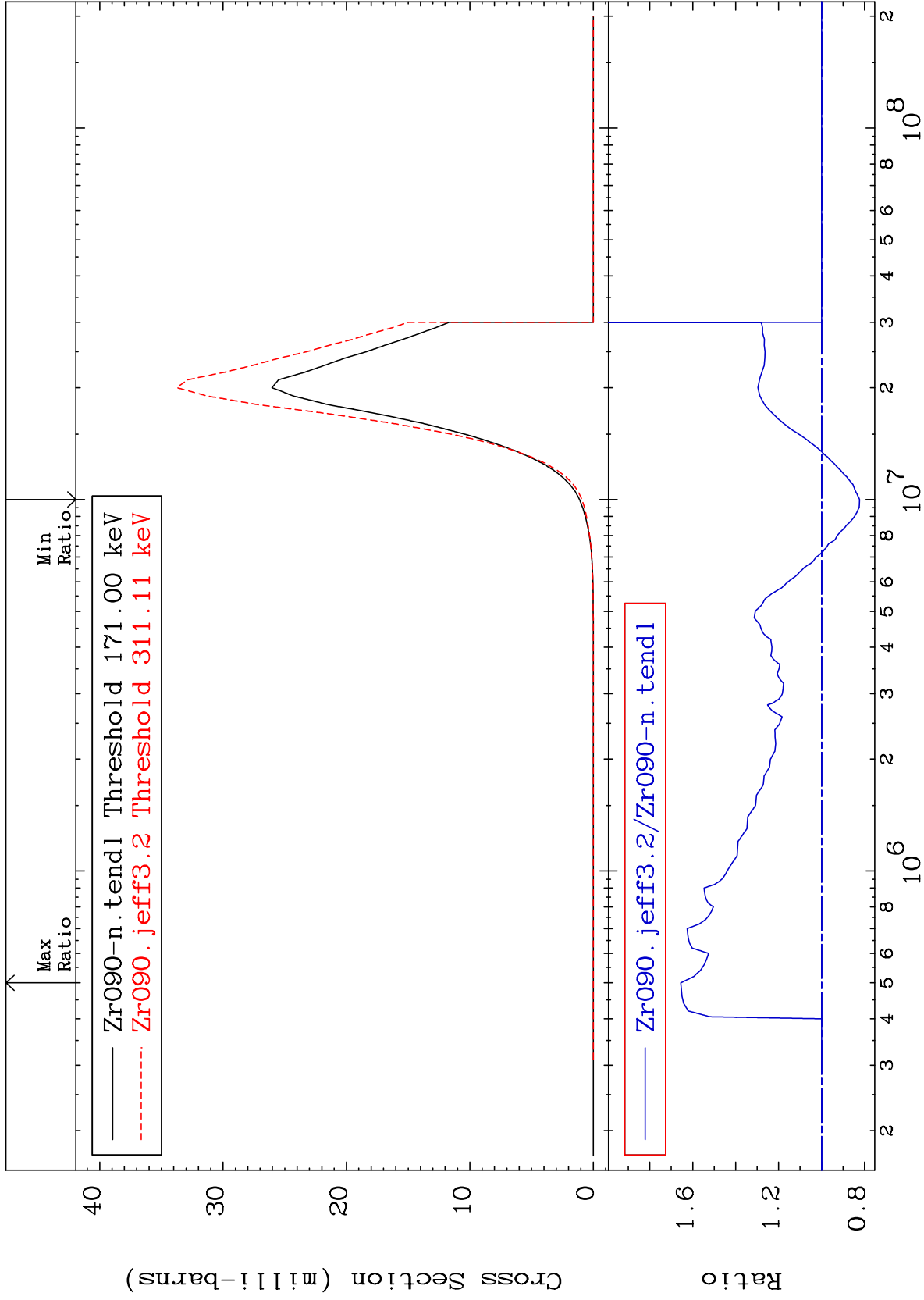
MAT 4025

(n, α)

40-Zr-90

Cross Section

-17.68 To 65.57 %



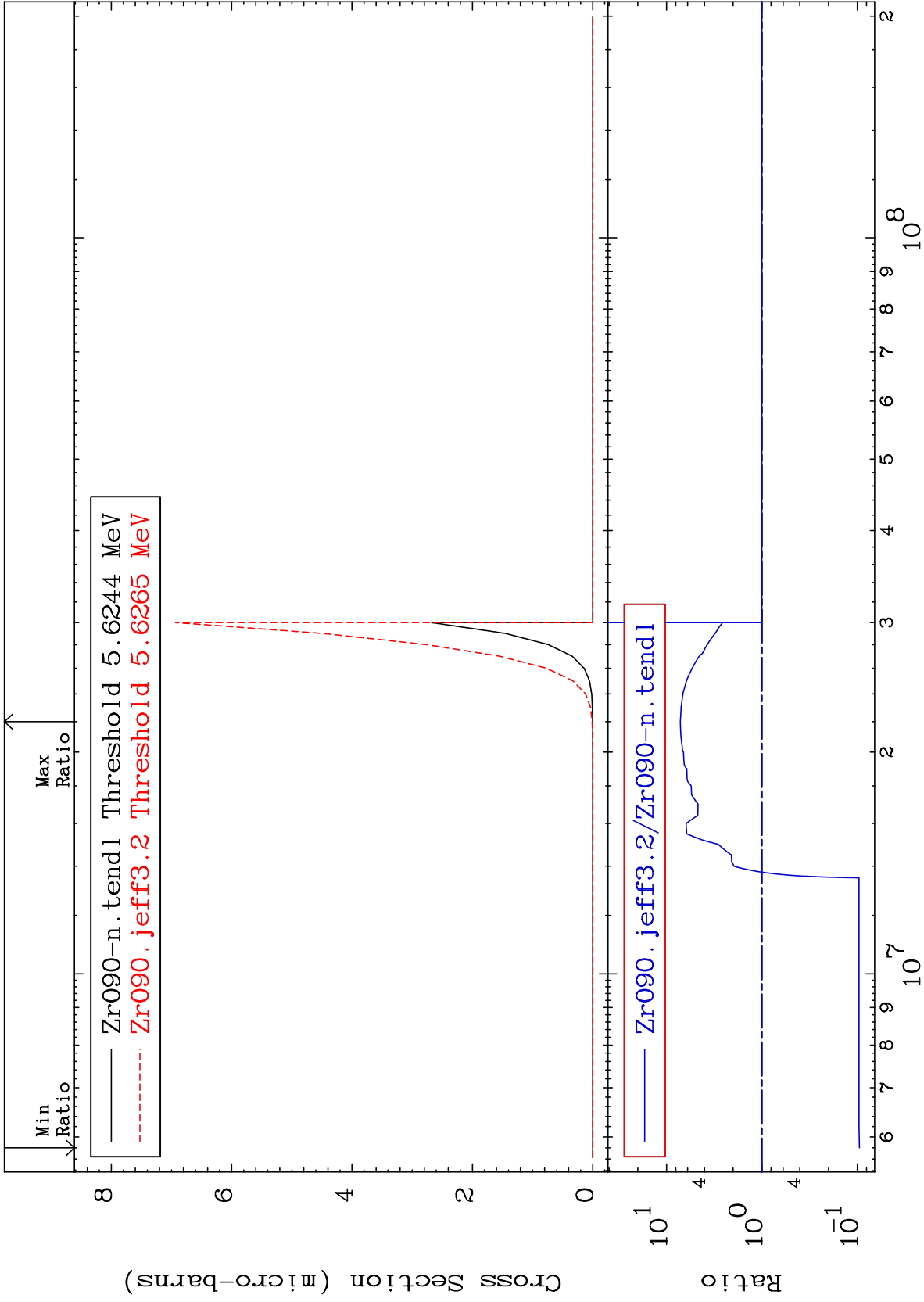
MAT 4025

(n,2α)

40-Zr-90

Cross Section

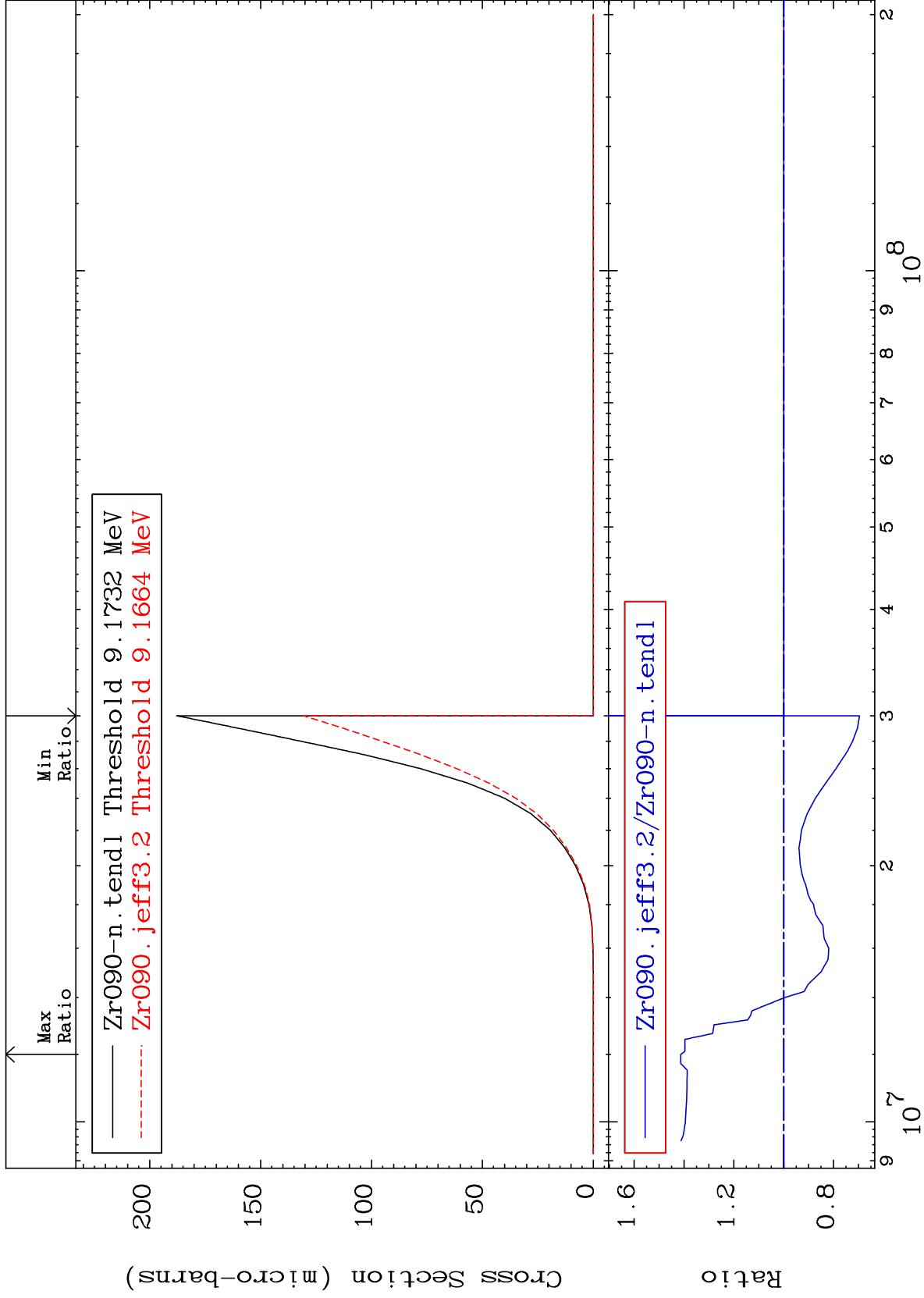
-90.51 To 615.0 %



MAT 4025

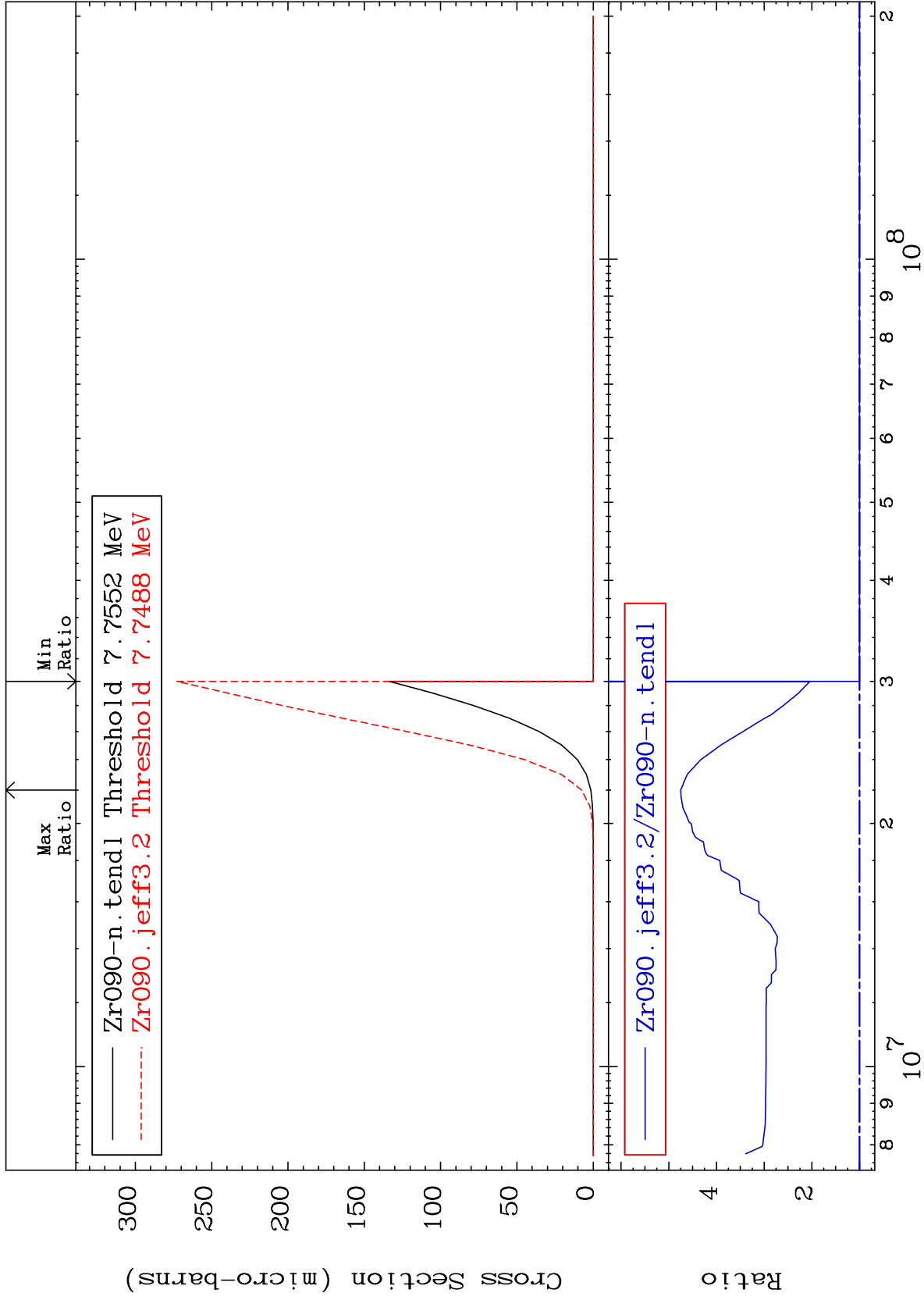
(n,2p)
Cross Section

40-Zr-90
-30.43 To 41.29 %



MAT 4025

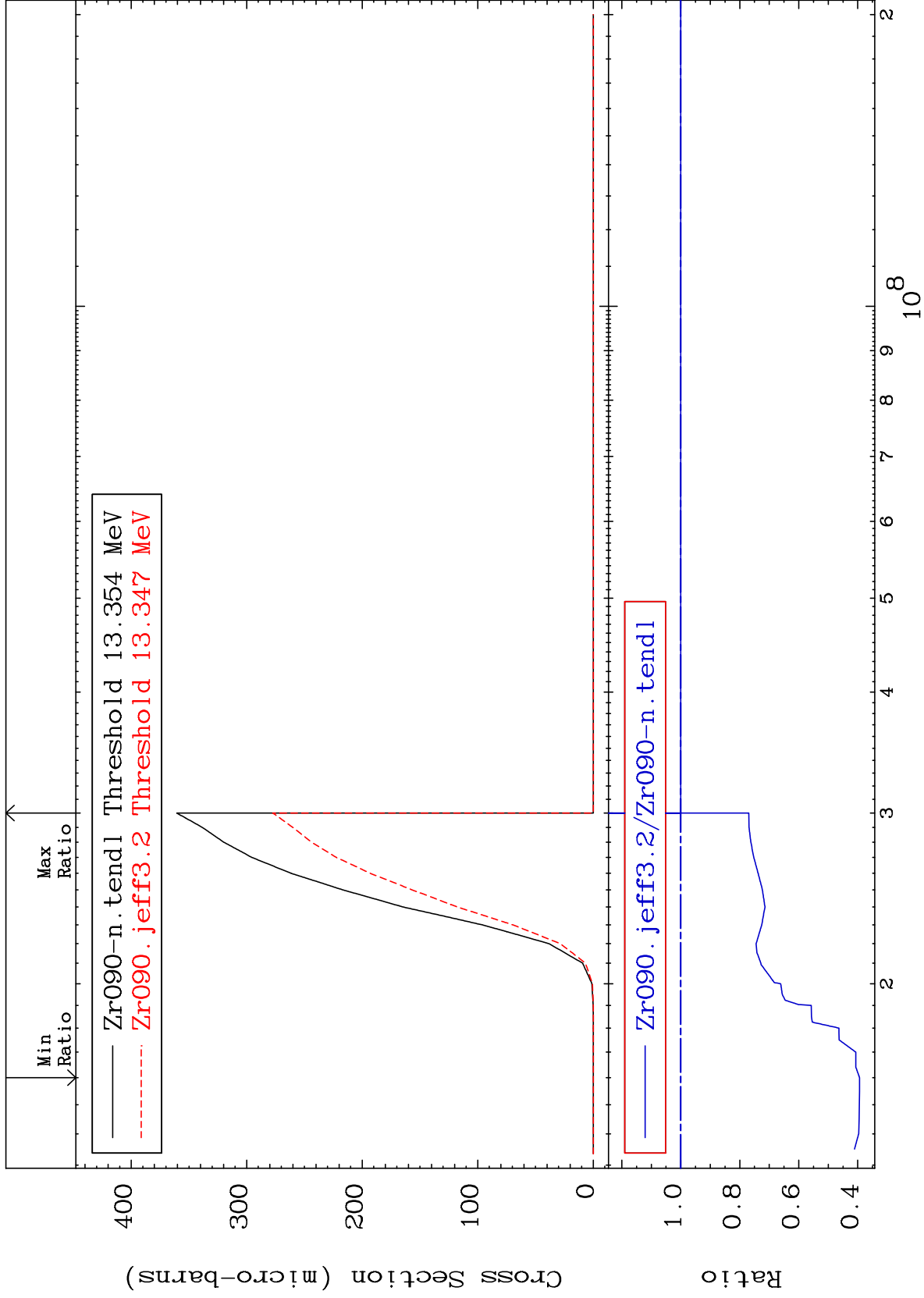
(n,p) α
Cross Section
0.000 To 374.8 %
40-Zr-90



MAT 4025

(n, p) d
Cross Section

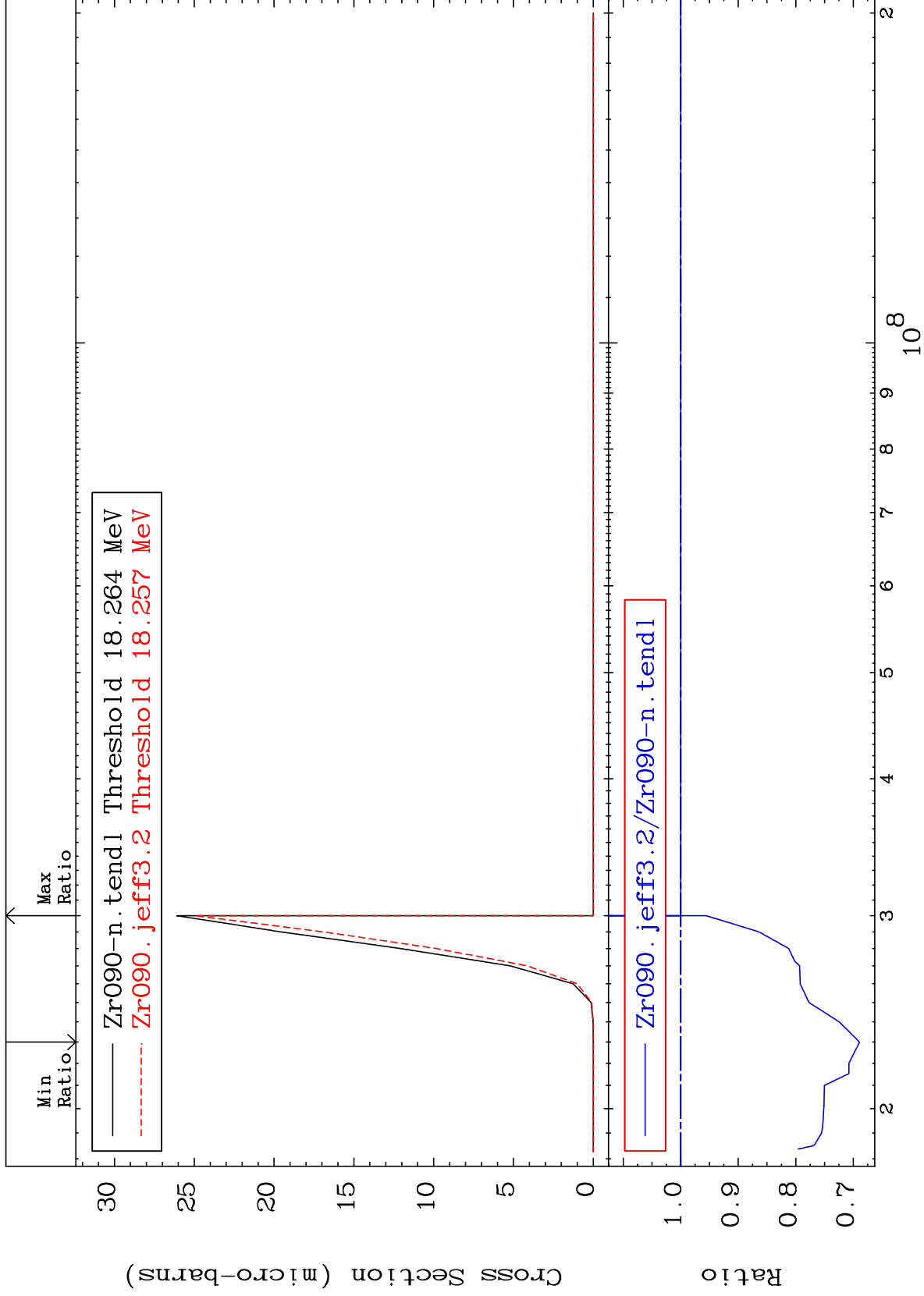
40-Zr-90
-60.61 To 0.000 %



MAT 4025

(n,p) t
Cross Section

40-Zr-90
-31.10 To 0.000 %



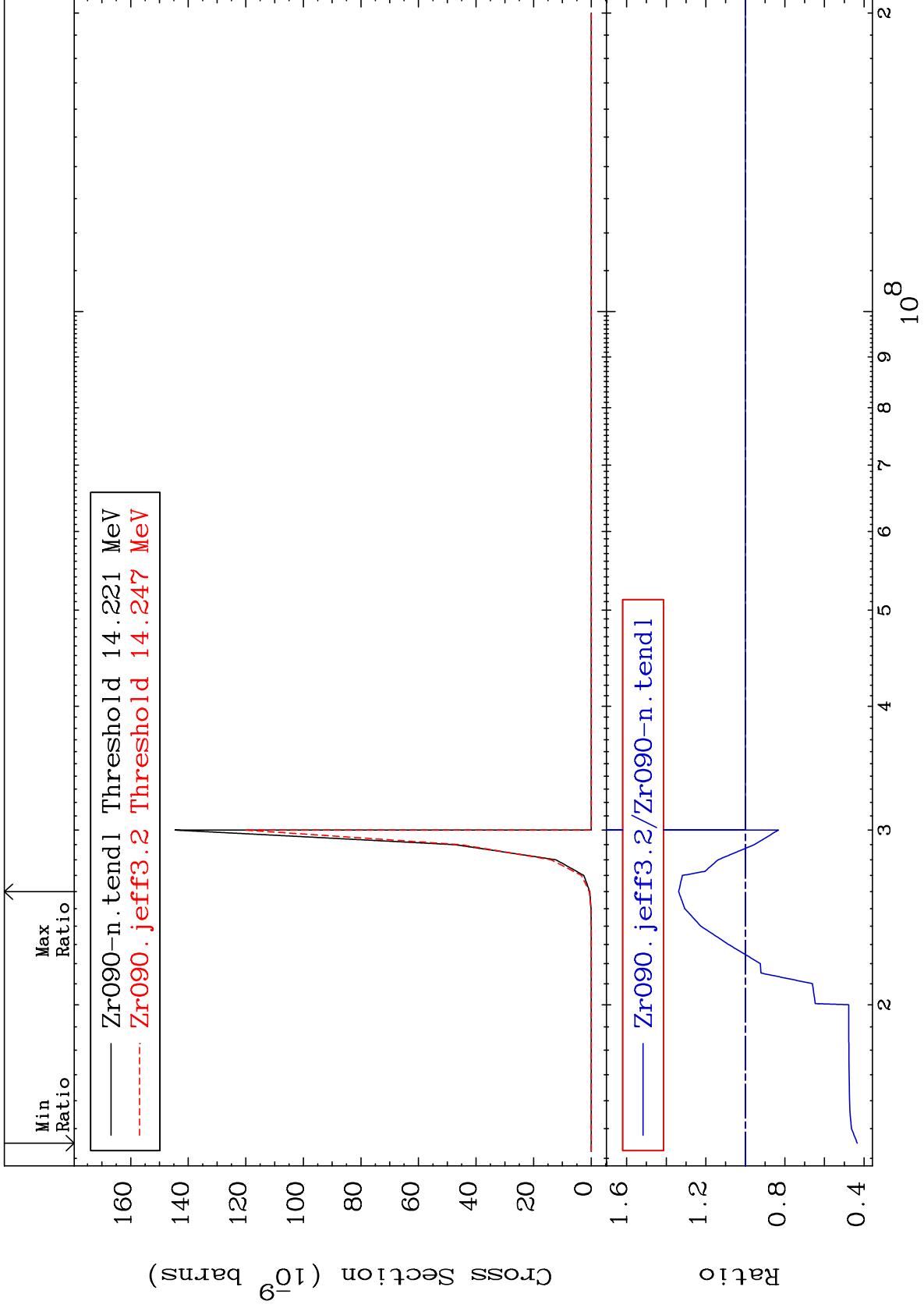
57

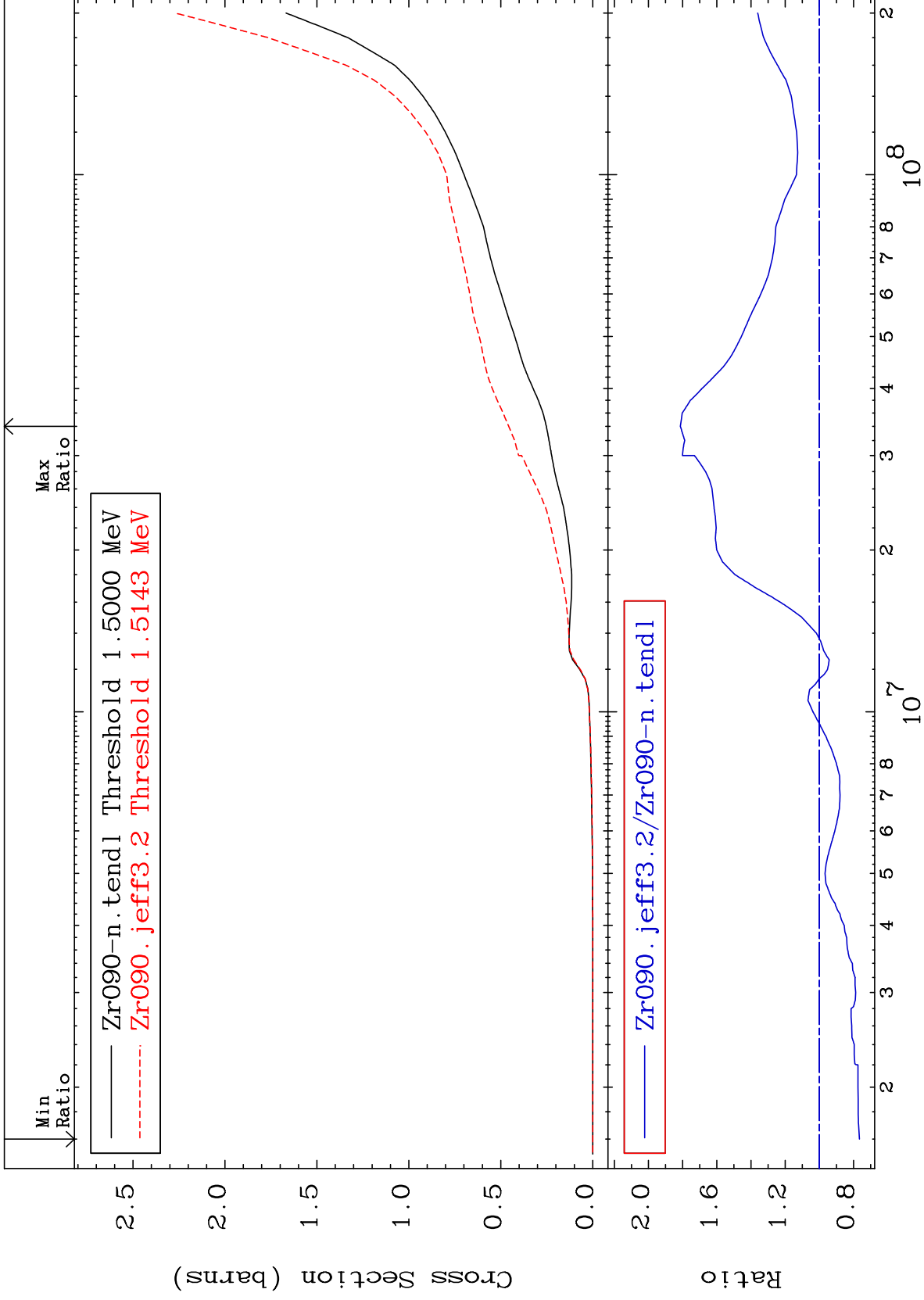
40-Zr-90

MAT 4025

(n, d) α
Cross Section

40-Zr-90
-56.56 To 33.73 %

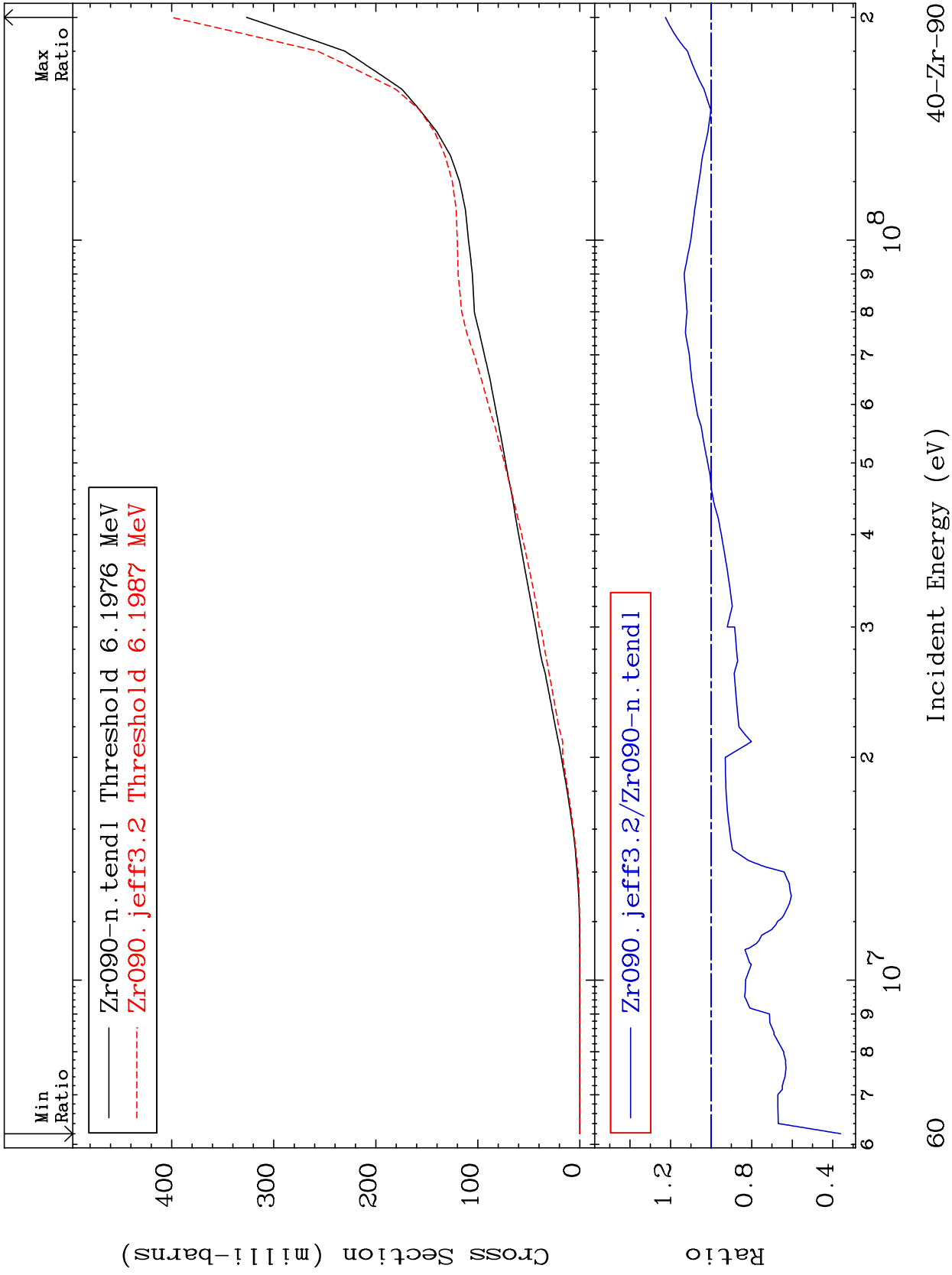




MAT 4025

Deuterium Production
Cross Section

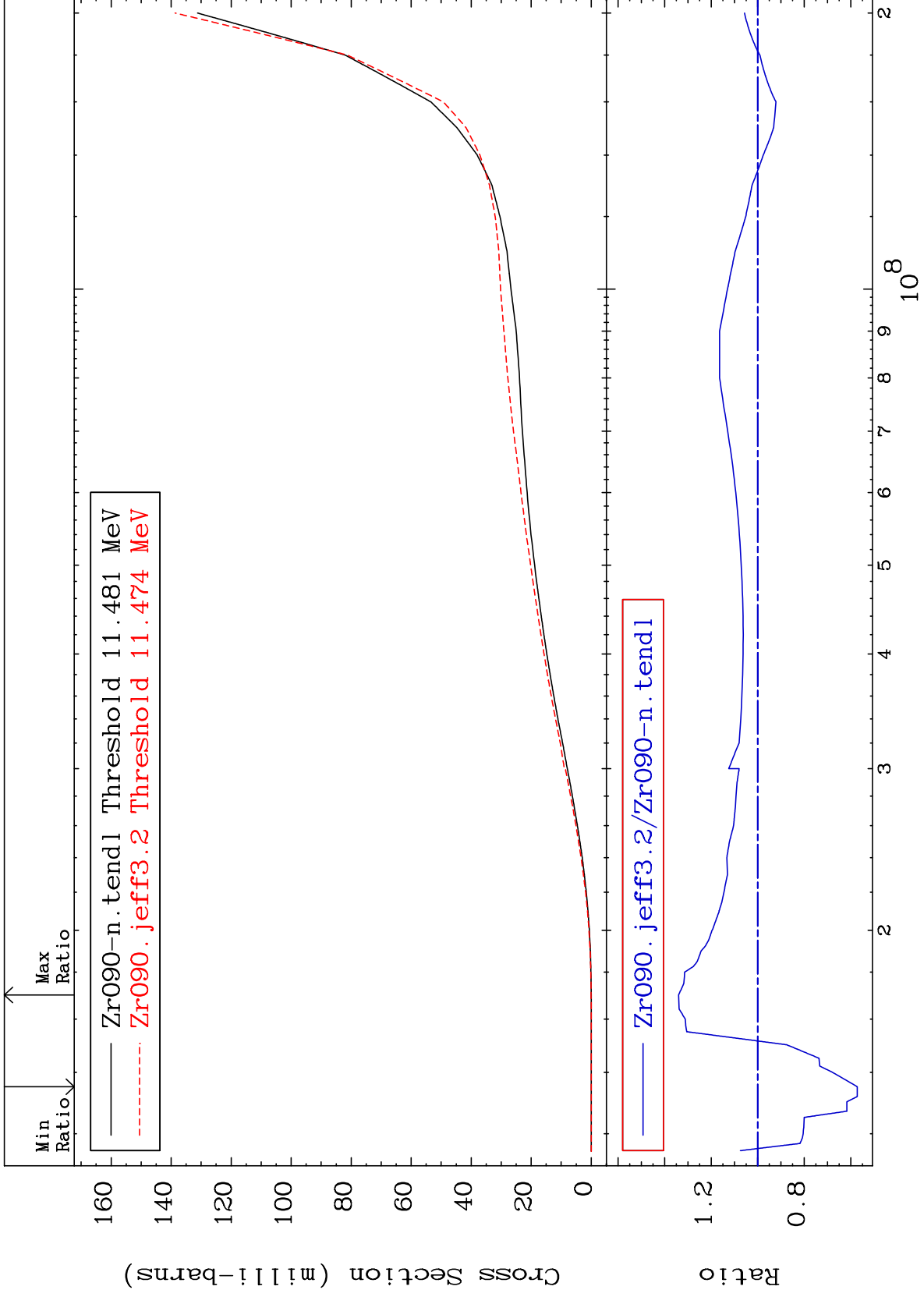
40-Zr-90
-63.88 To 22.50 %



MAT 4025

Tritium Production
Cross Section

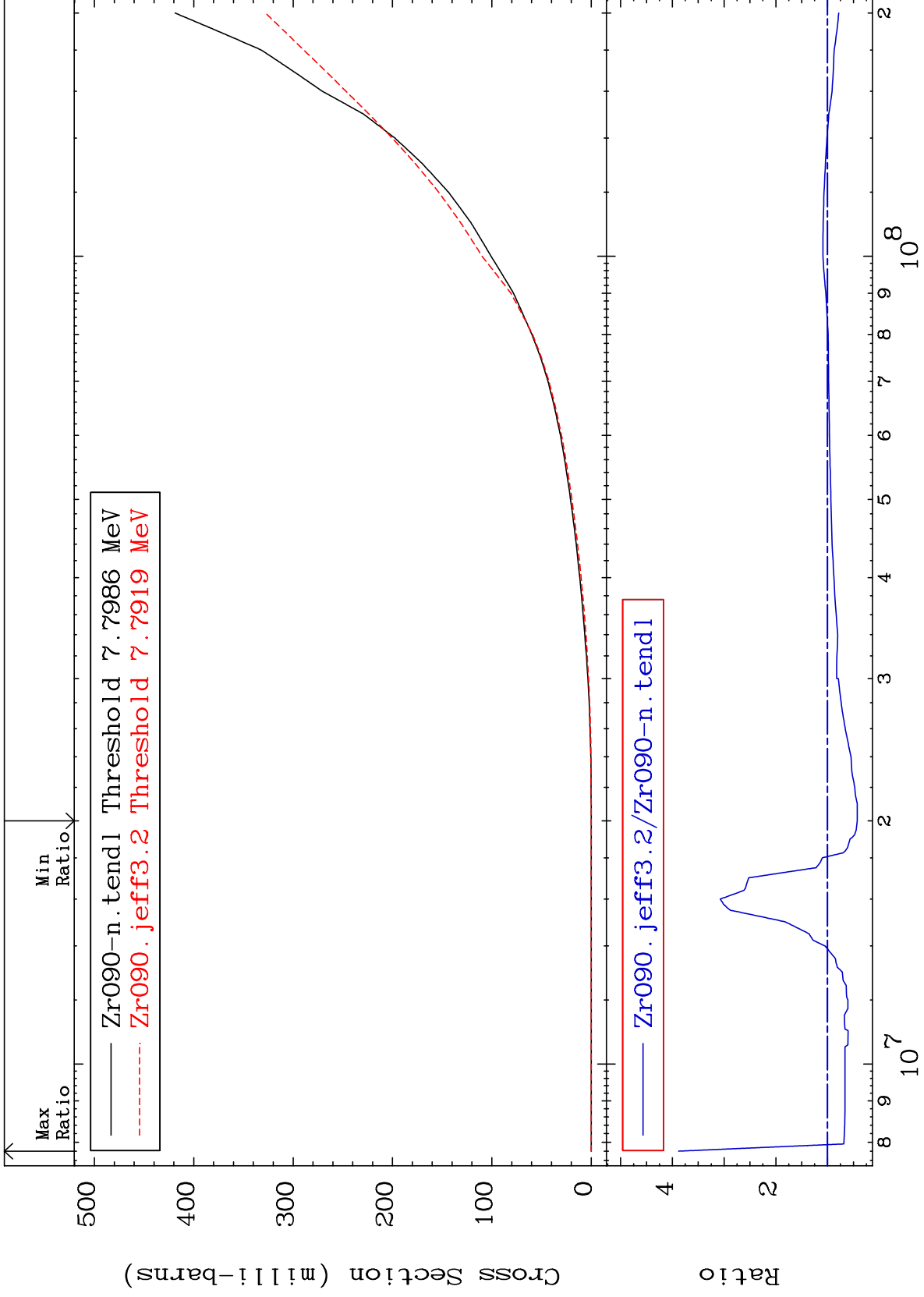
40-Zr-90
-42.77 To 33.99 %



MAT 4025

He-3 Production
Cross Section

40-Zr-90
-57.43 To 287.9 %



62

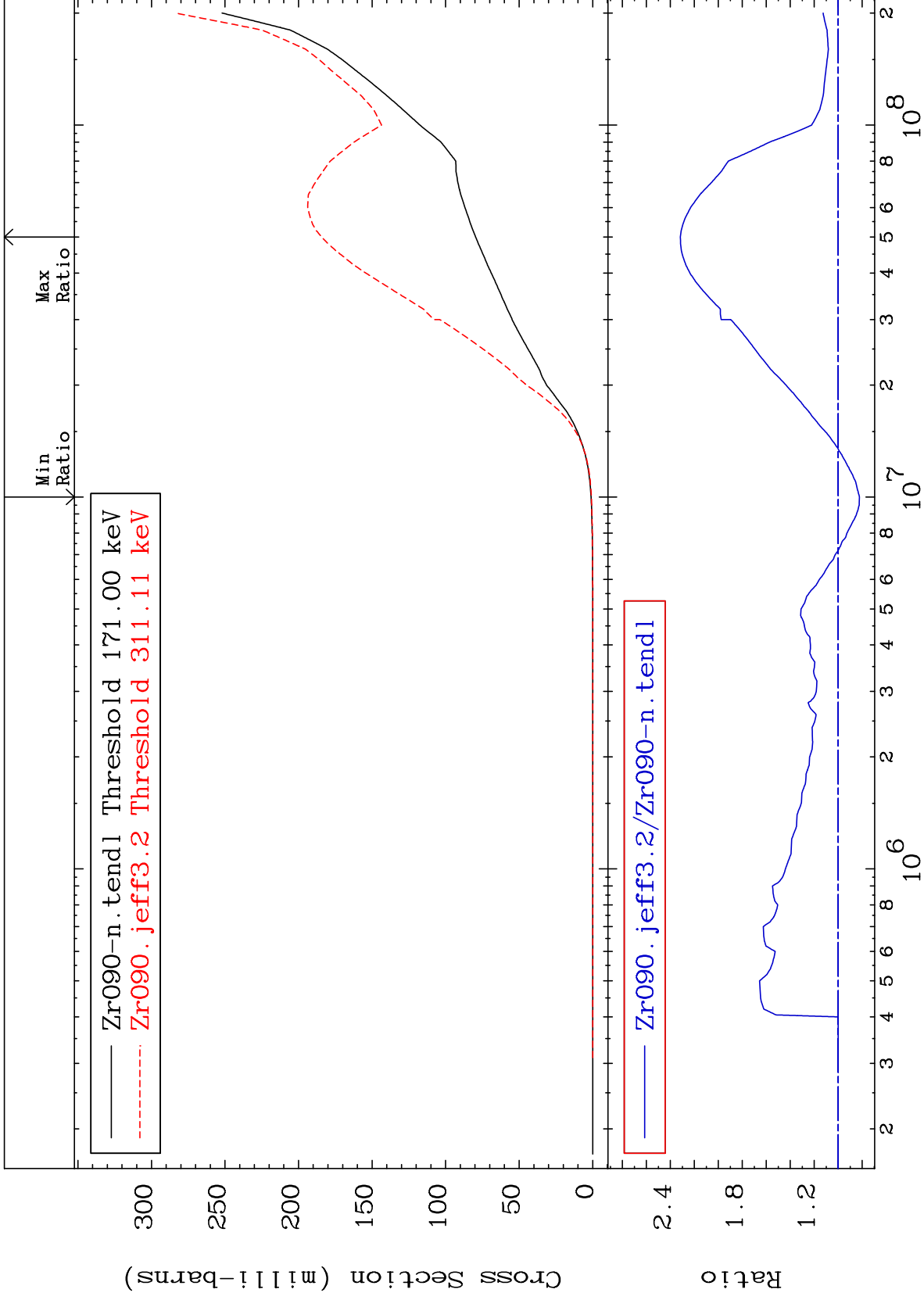
Incident Energy (eV)

40-Zr-90

MAT 4025

He-4 Production
Cross Section

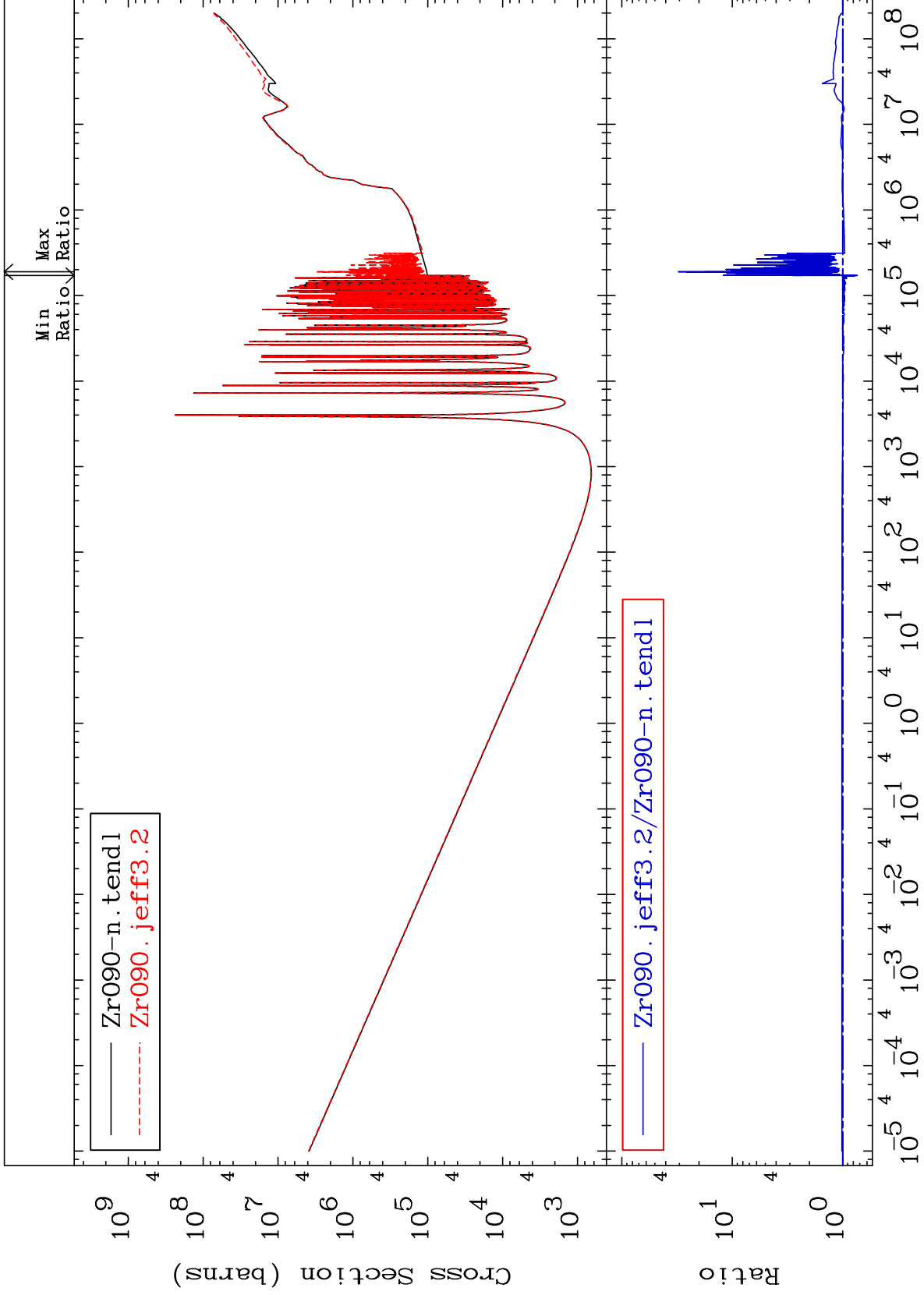
40-Zr-90
-17.68 To 131.6 %



63

Incident Energy (eV)

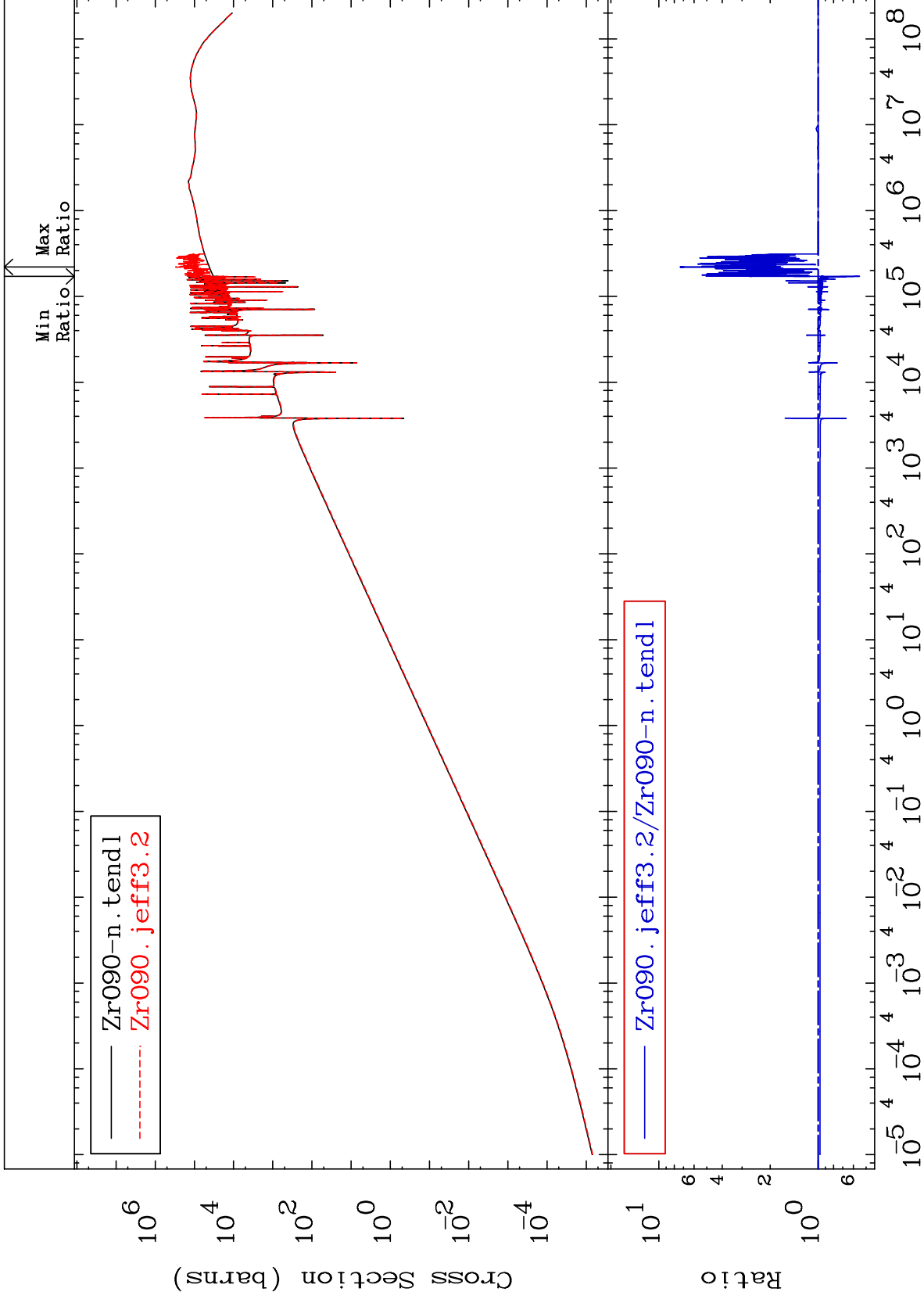
40-Zr-90



MAT 4025

Kerma elastic
Cross Section

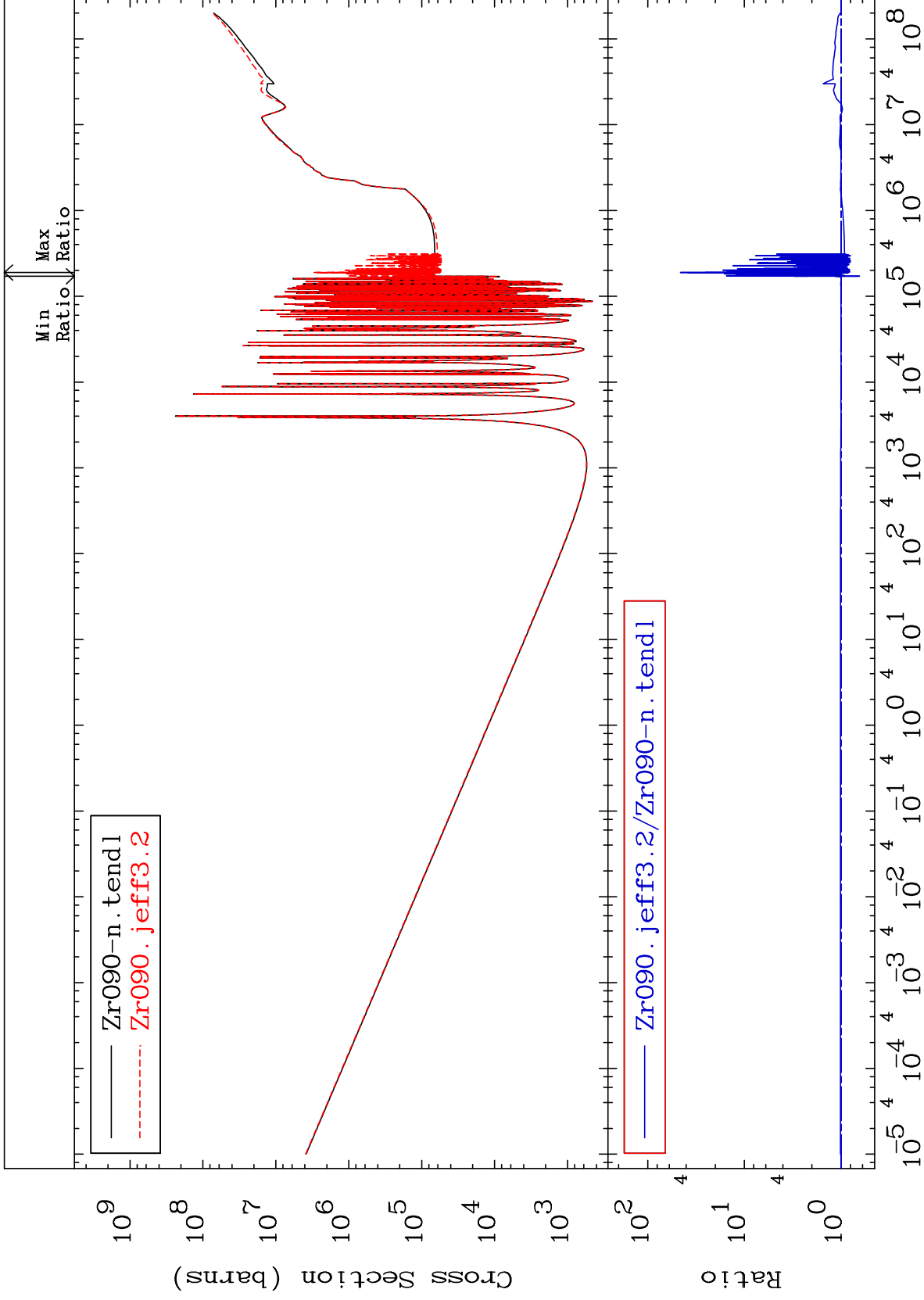
40-Zr-90
-45.00 To 632.3 %

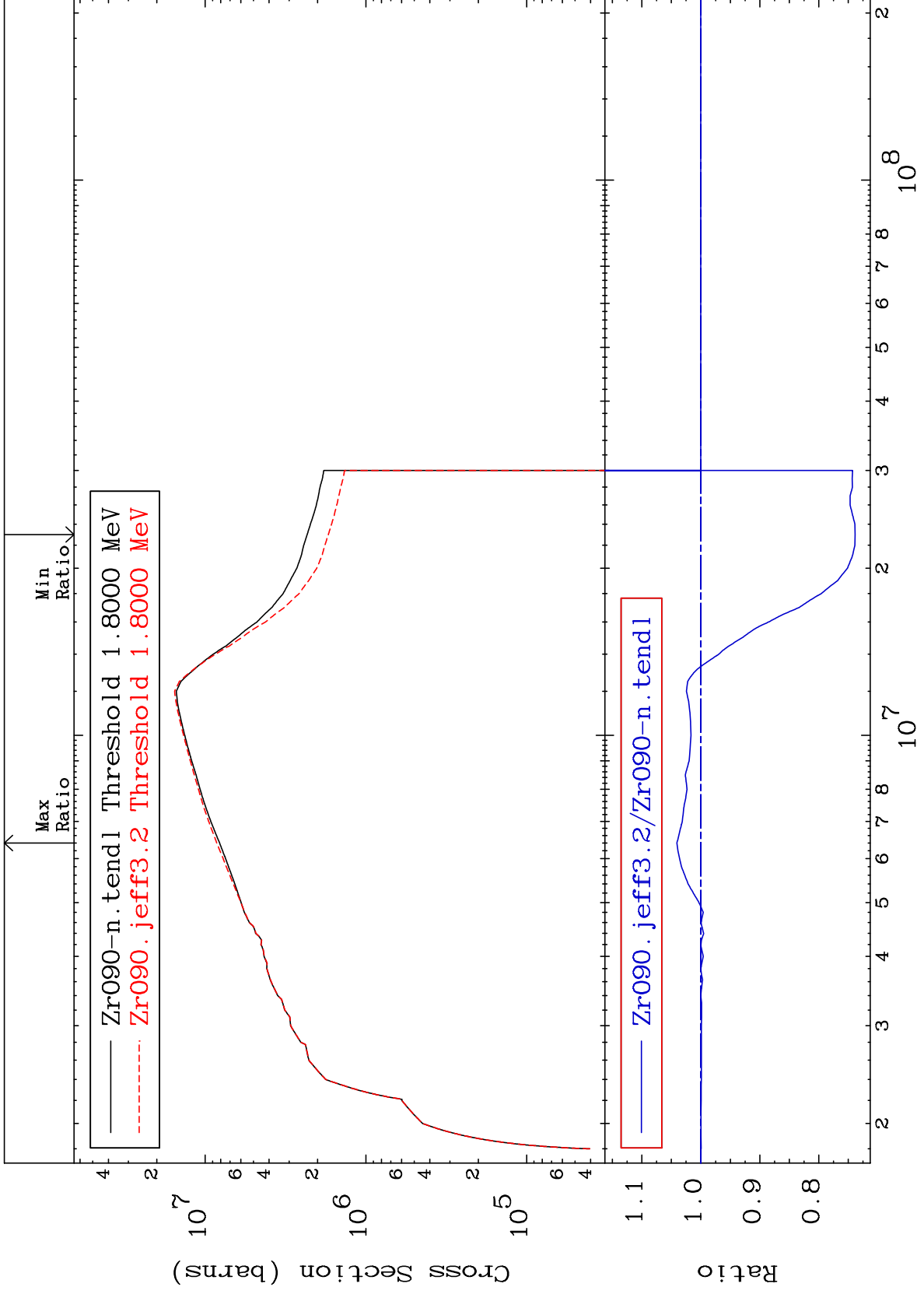


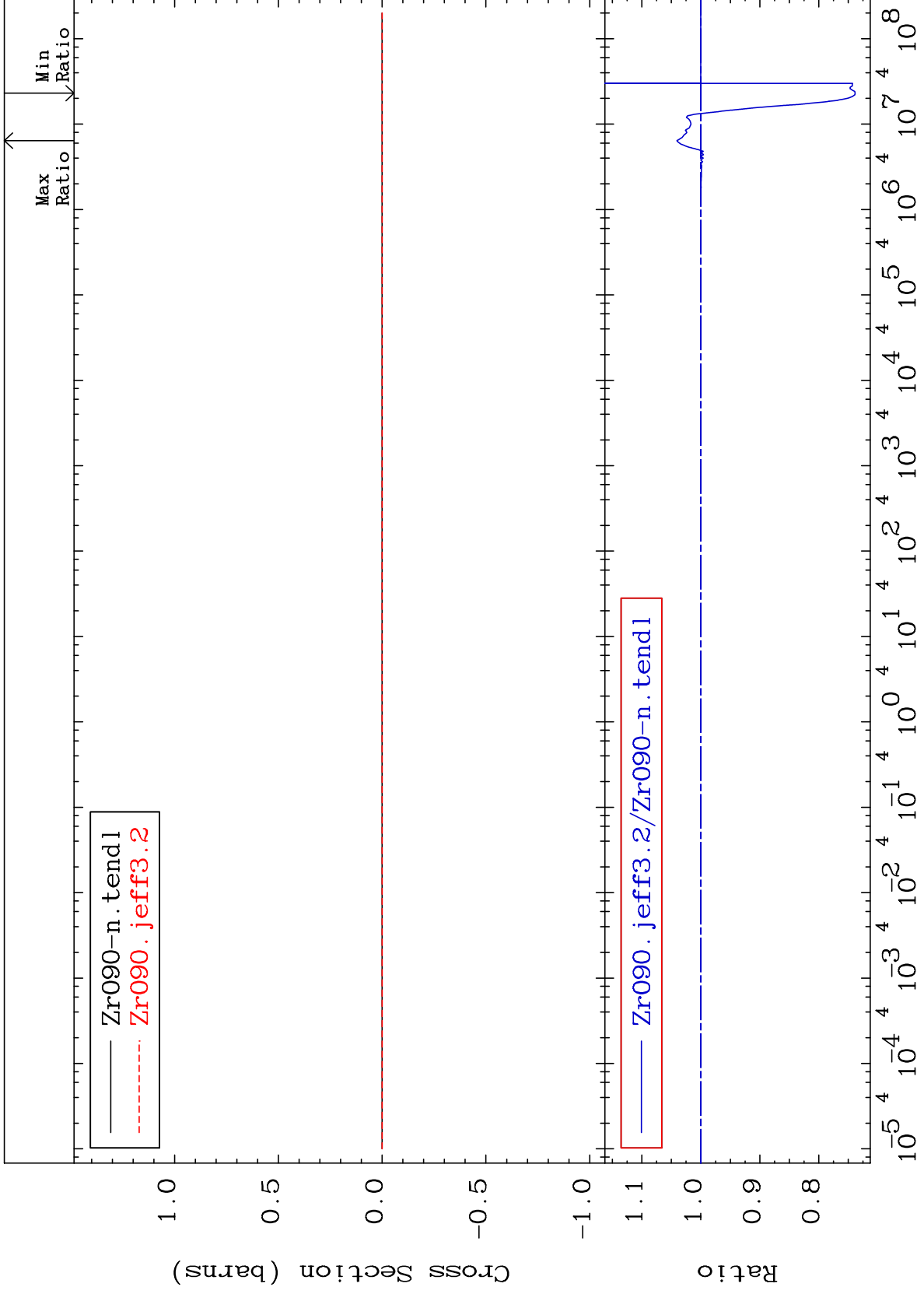
65

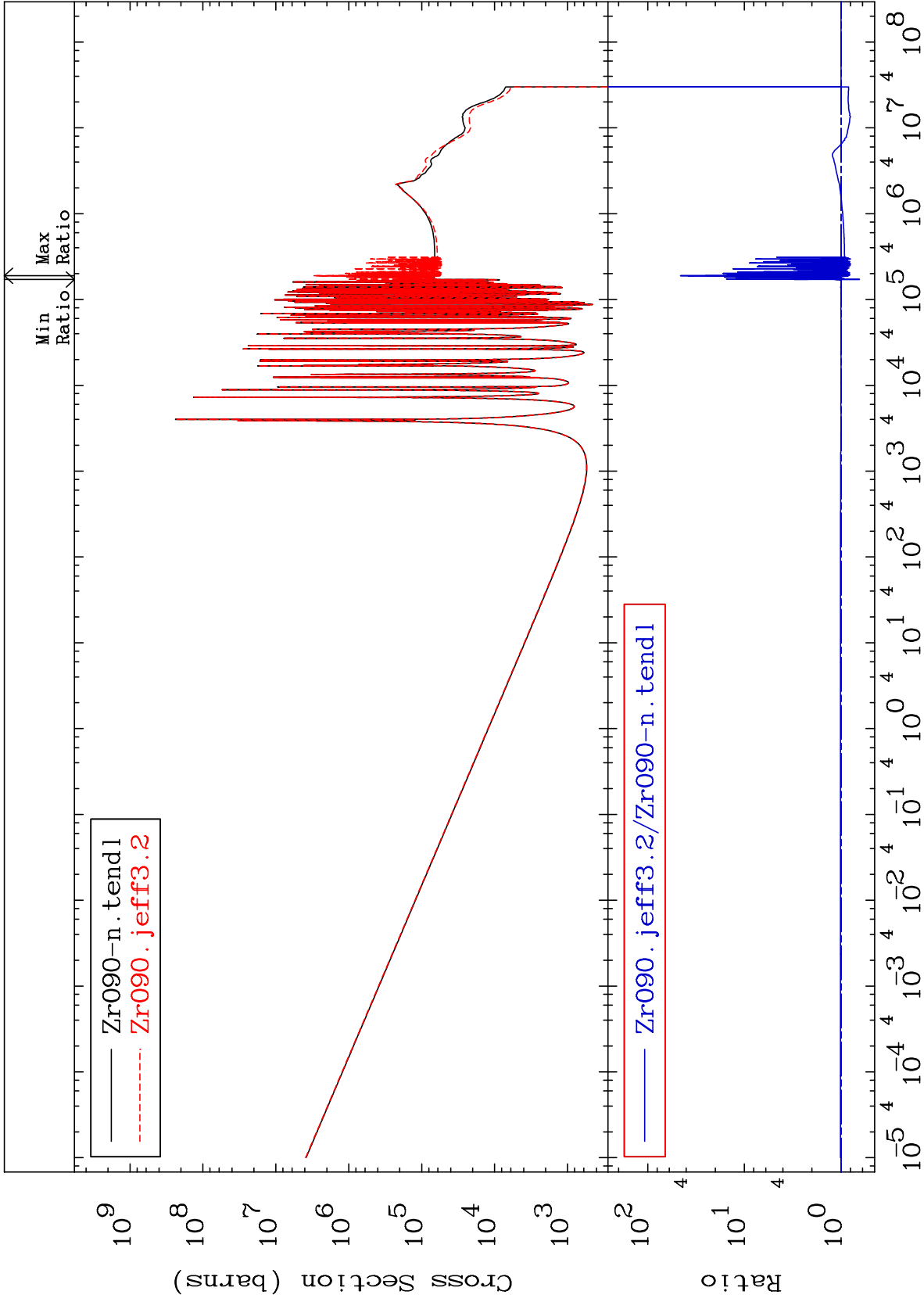
Incident Energy (eV)

40-Zr-90





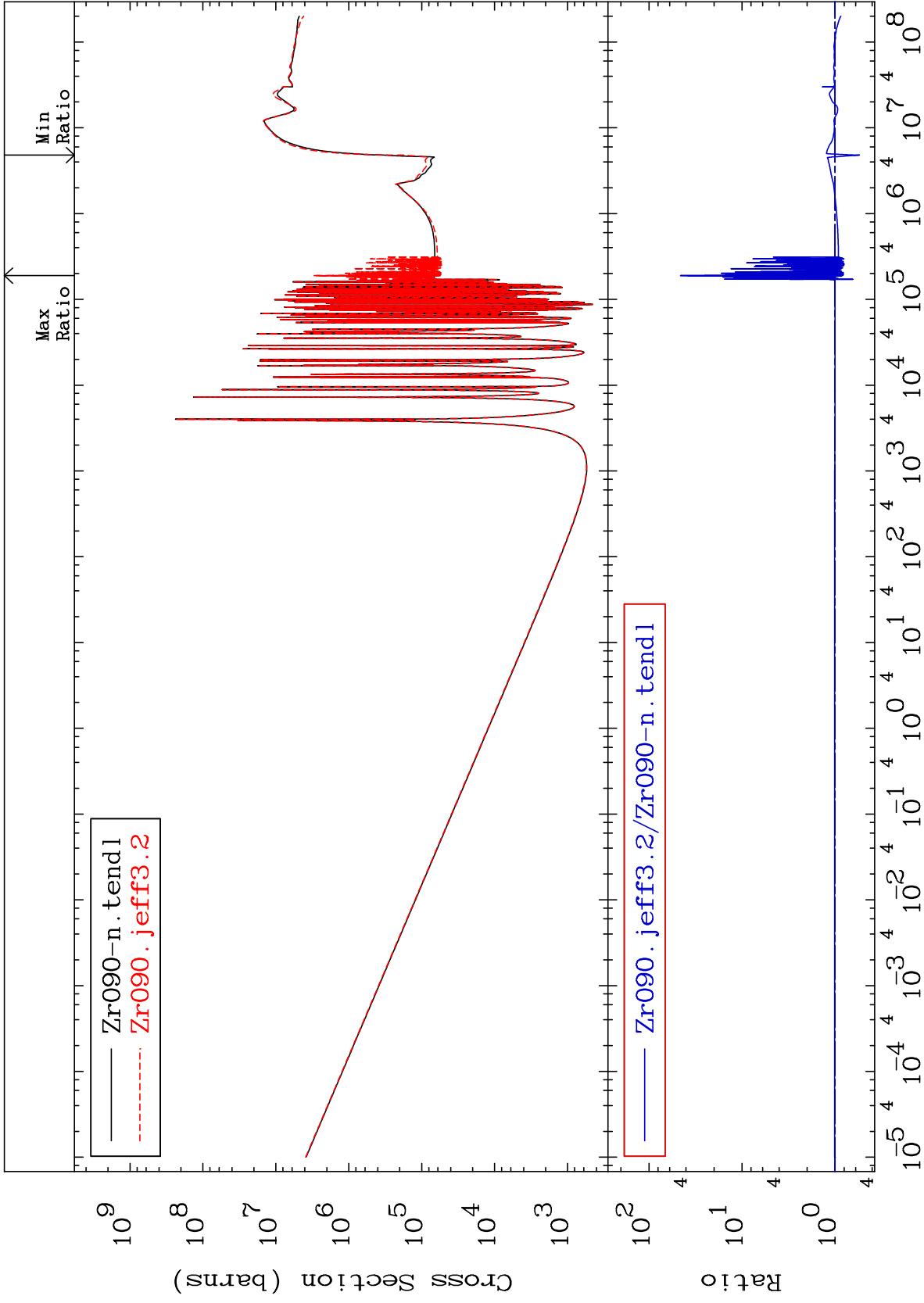




MAT 4025

Total photon (eV-barns)
Cross Section

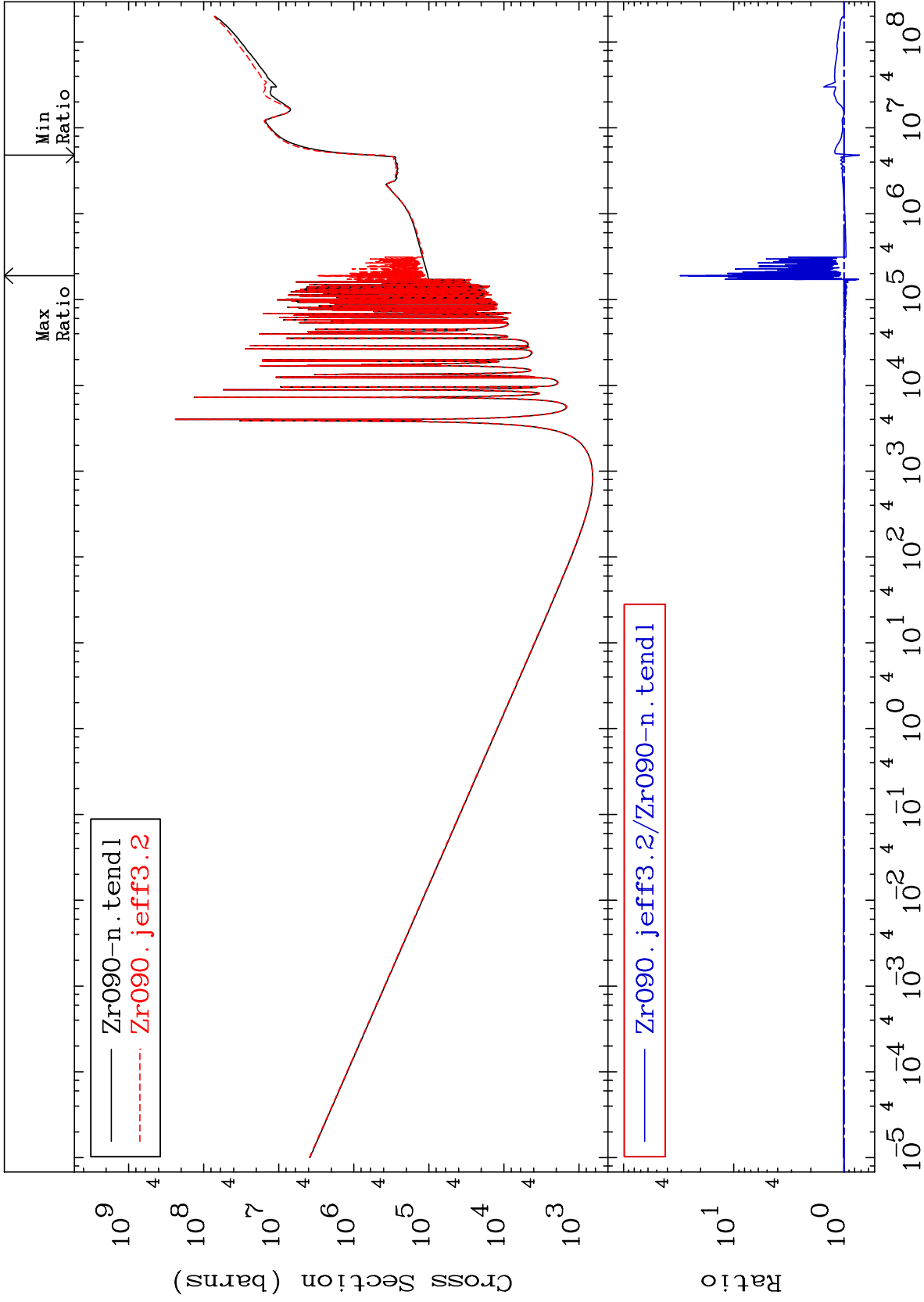
40-Zr-90
-45.22 To 4500. %



70

Incident Energy (eV)

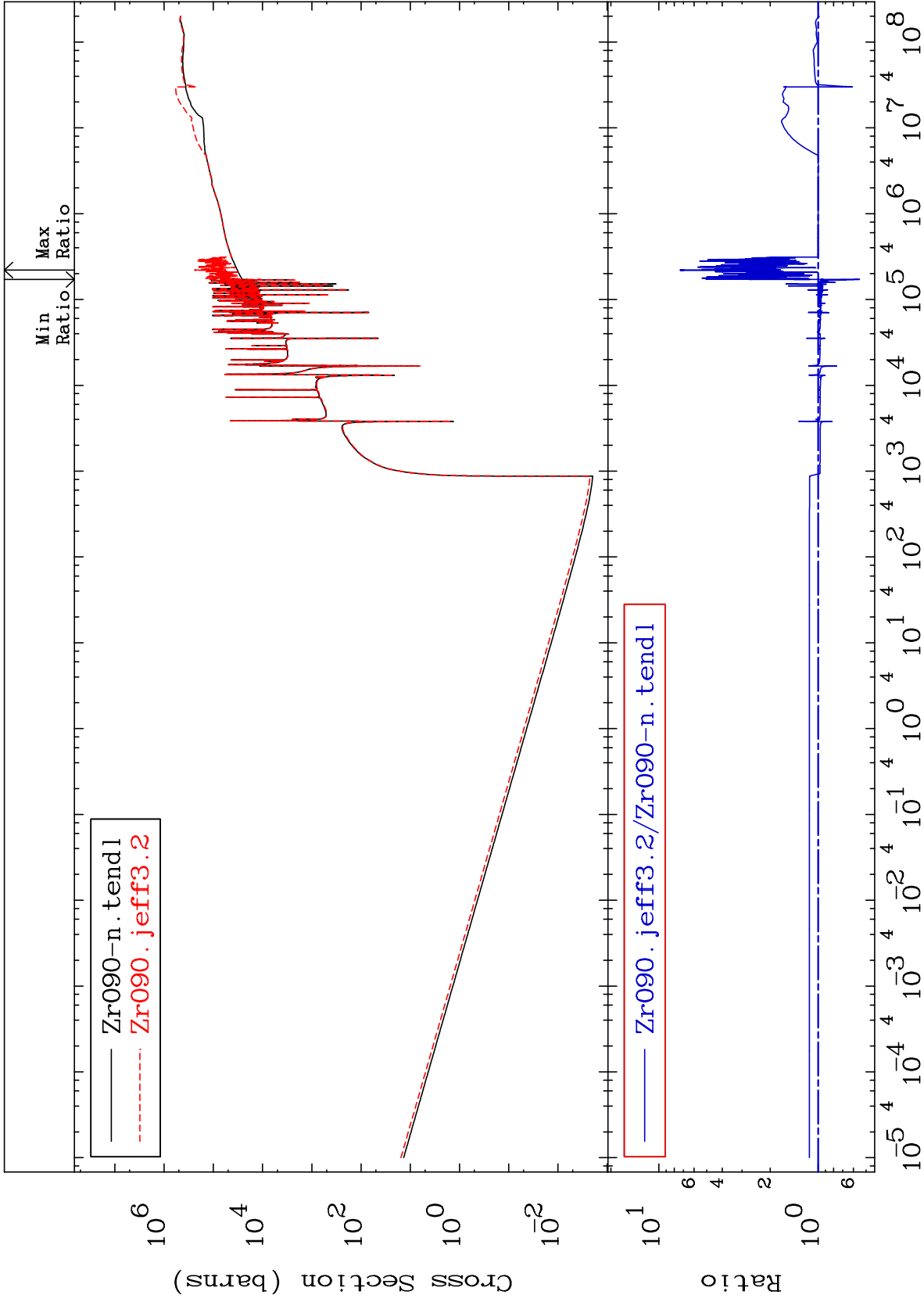
40-Zr-90



MAT 4025

Dpa total (eV-barns)
Cross Section

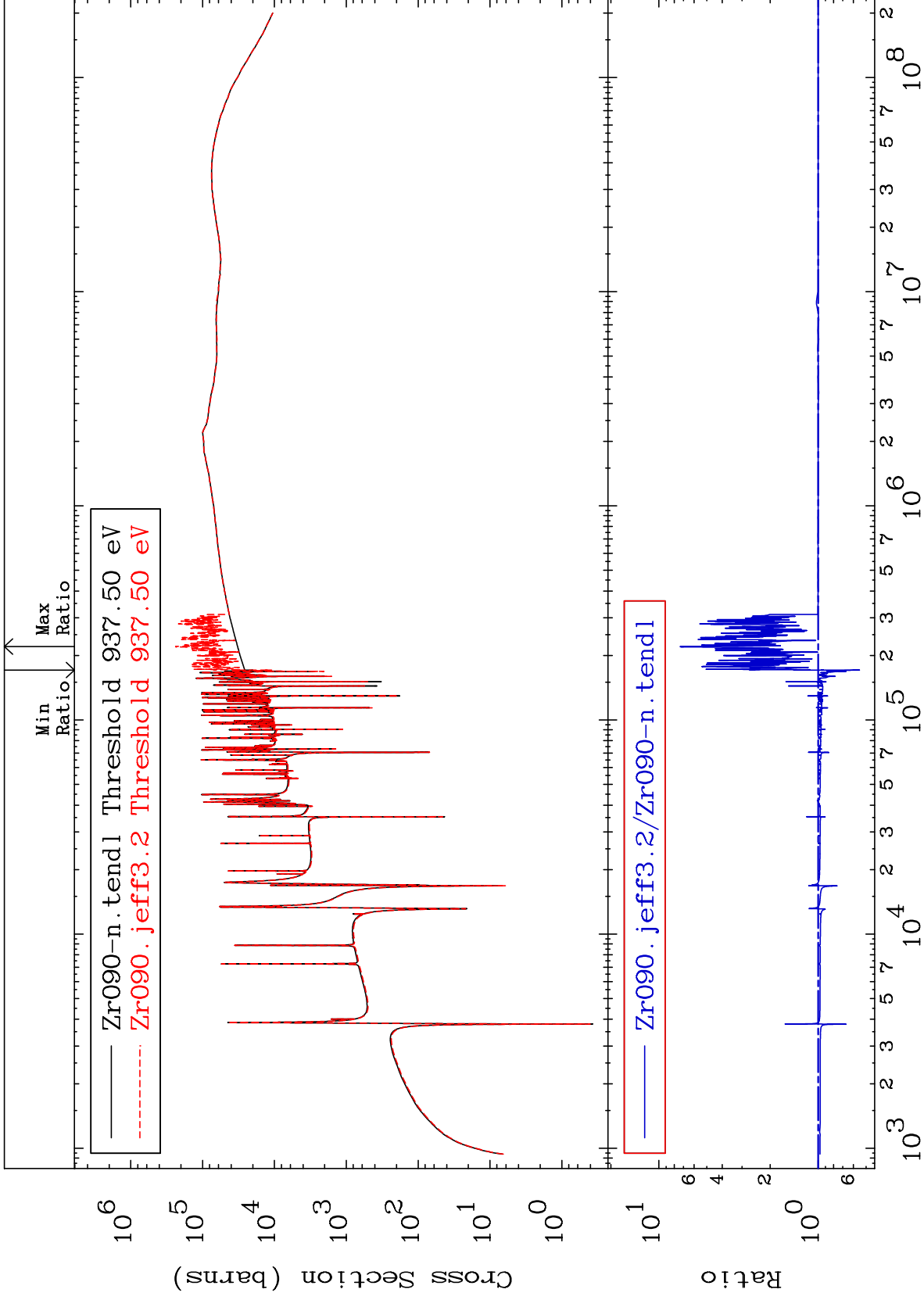
40-Zr-90
-45.00 To 632.4 %



MAT 4025

Dpa elastic (mt2)
Cross Section

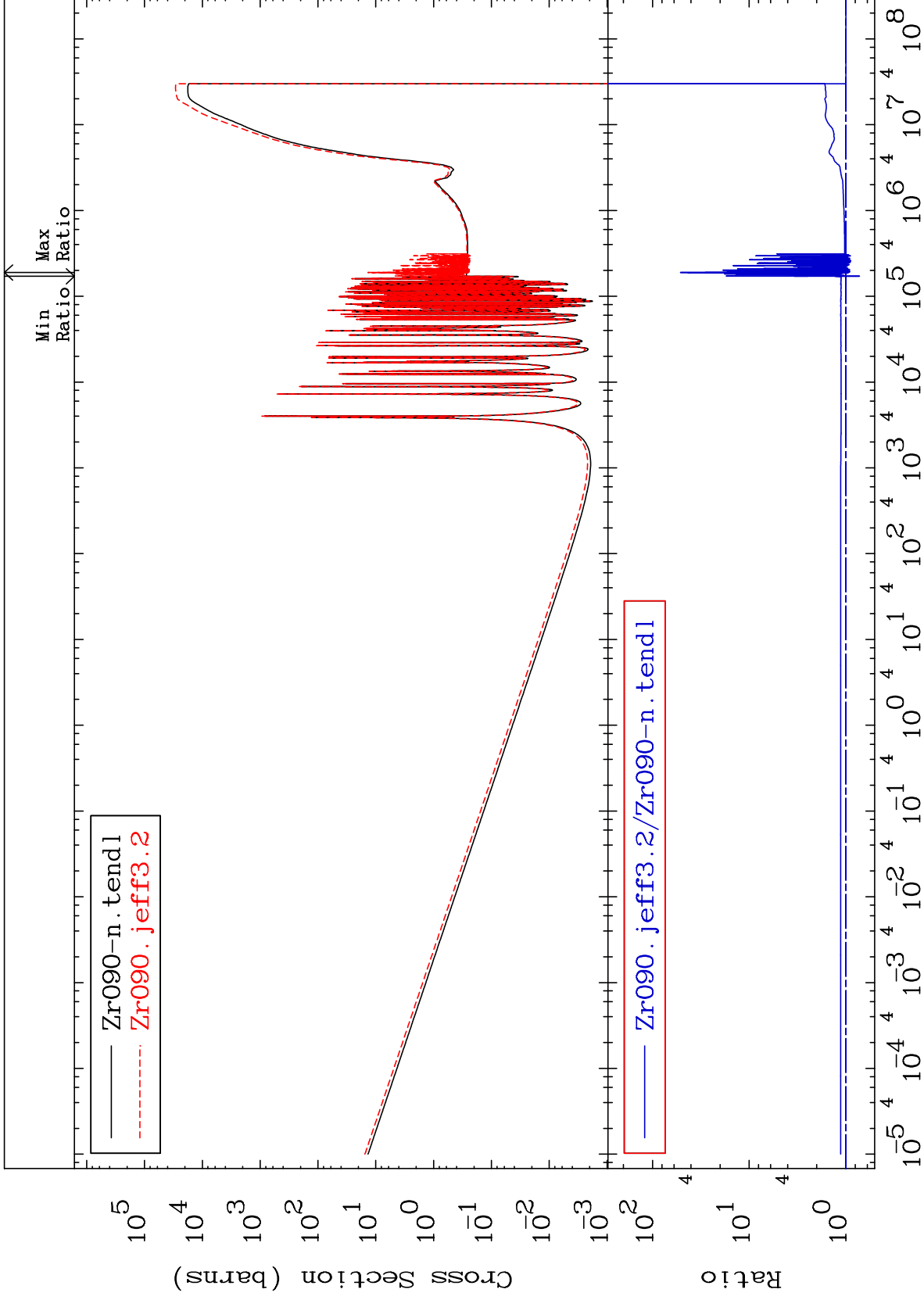
40-Zr-90
-45.00 To 632.4 %



73

40-Zr-90

40-Zr-90



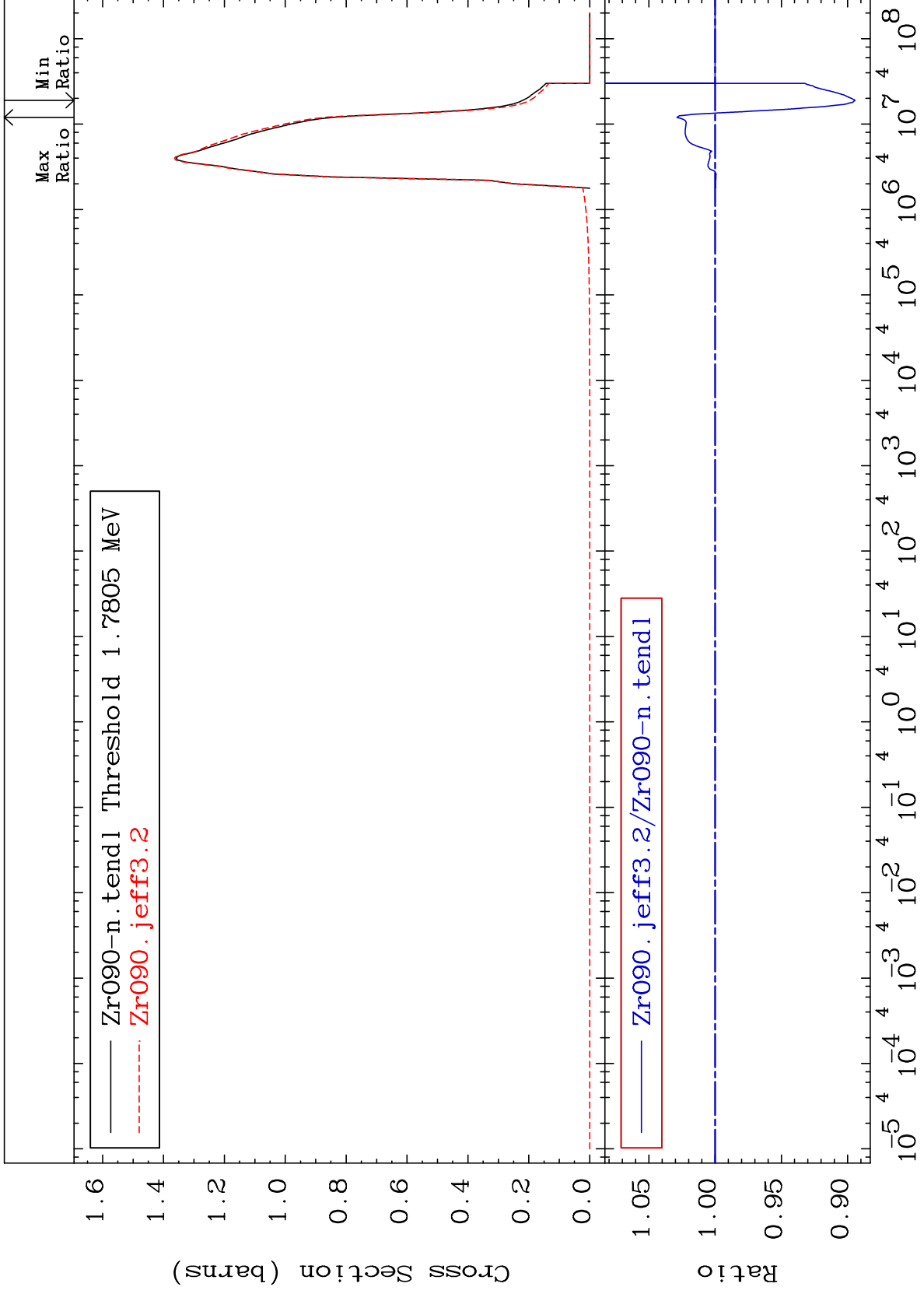
MAT 4025

Inelastic:40-Zr-90g

40-Zr-90

Radionuclide Production Cross Section

-10.57 To 2.882 %



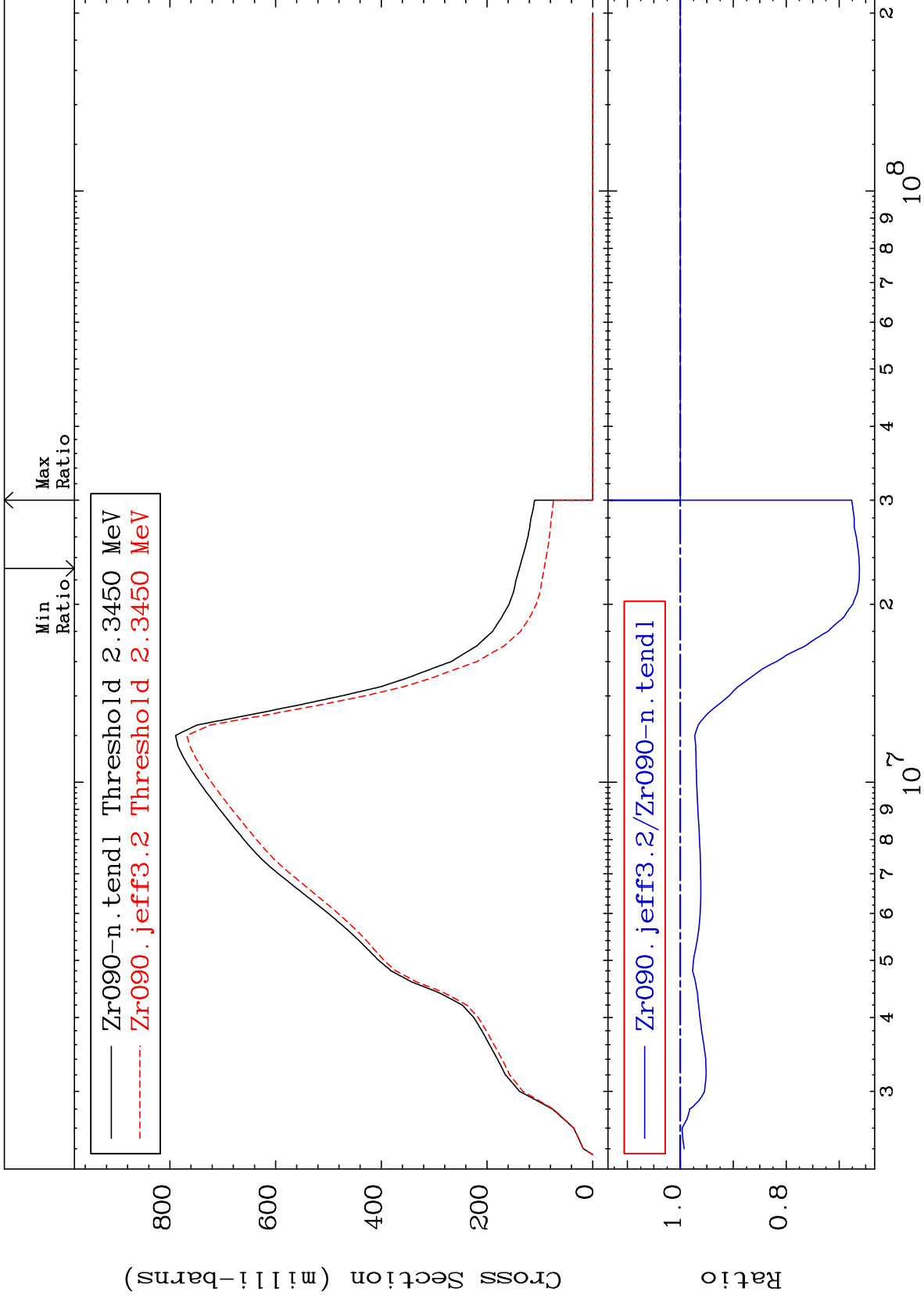
76

MAT 4025

Inelastic: 40-Zr-90m3

40-Zr-90

Radionuclide Production Cross Section -33.83 To 0.000 %

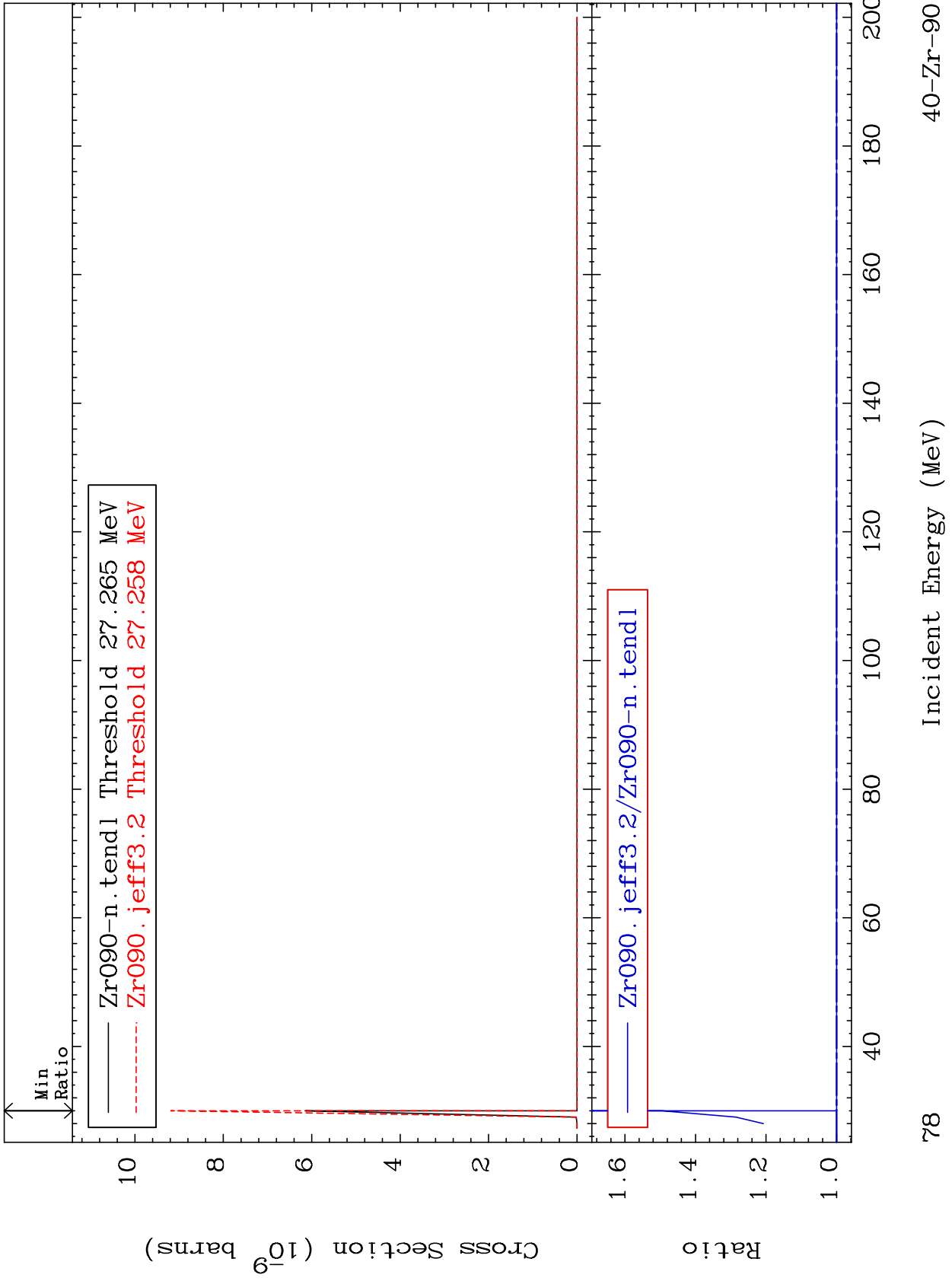


MAT 4025

(n,2n) d:39-Y -87g

40-Zr-90

Radionuclide Production Cross Section 0.000 To 49.42 %

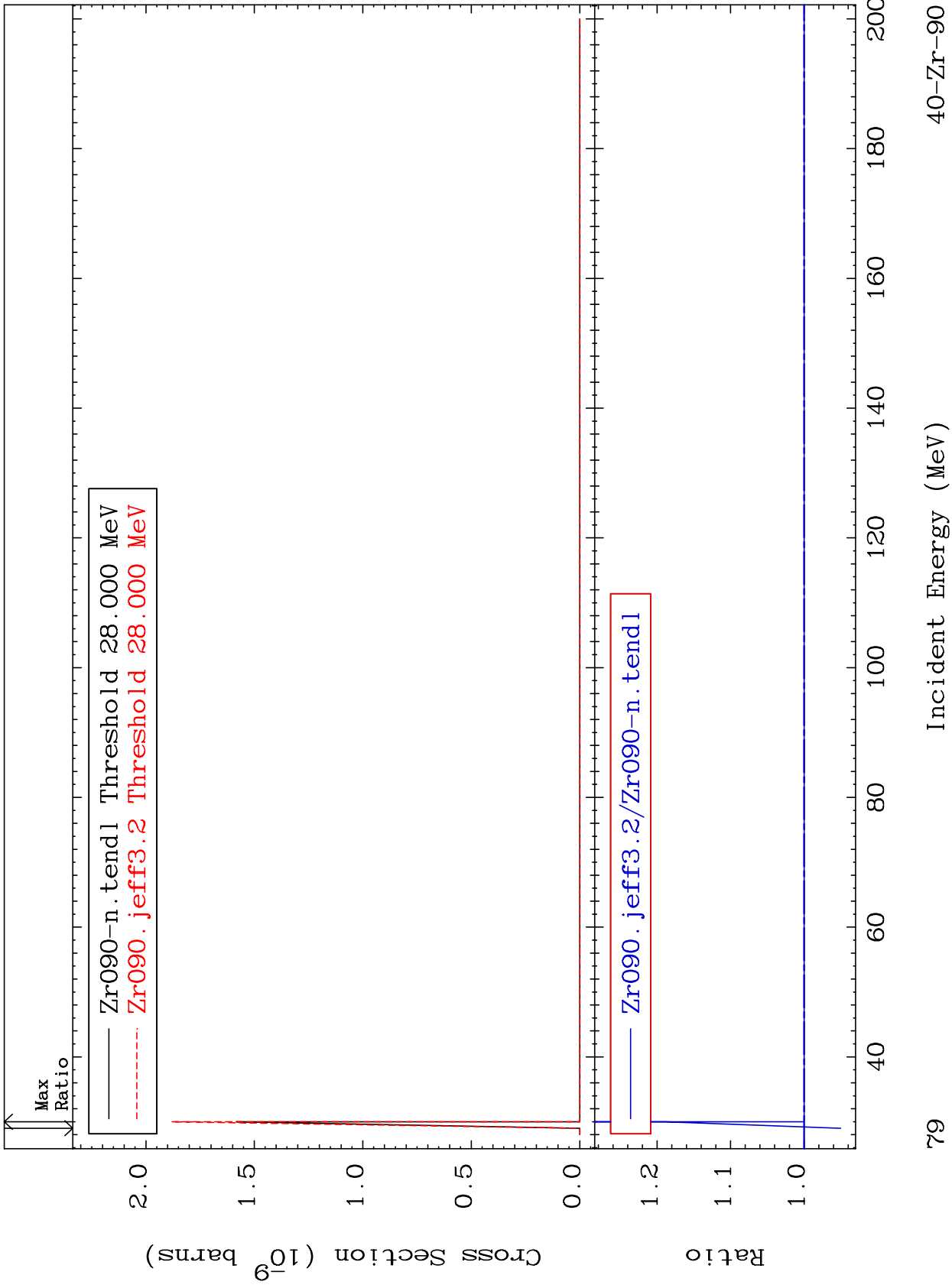


MAT 4025

(n,2n) d:39-Y -87m1

40-Zr-90

Radionuclide Production Cross Section -4.984 To 18.86 %

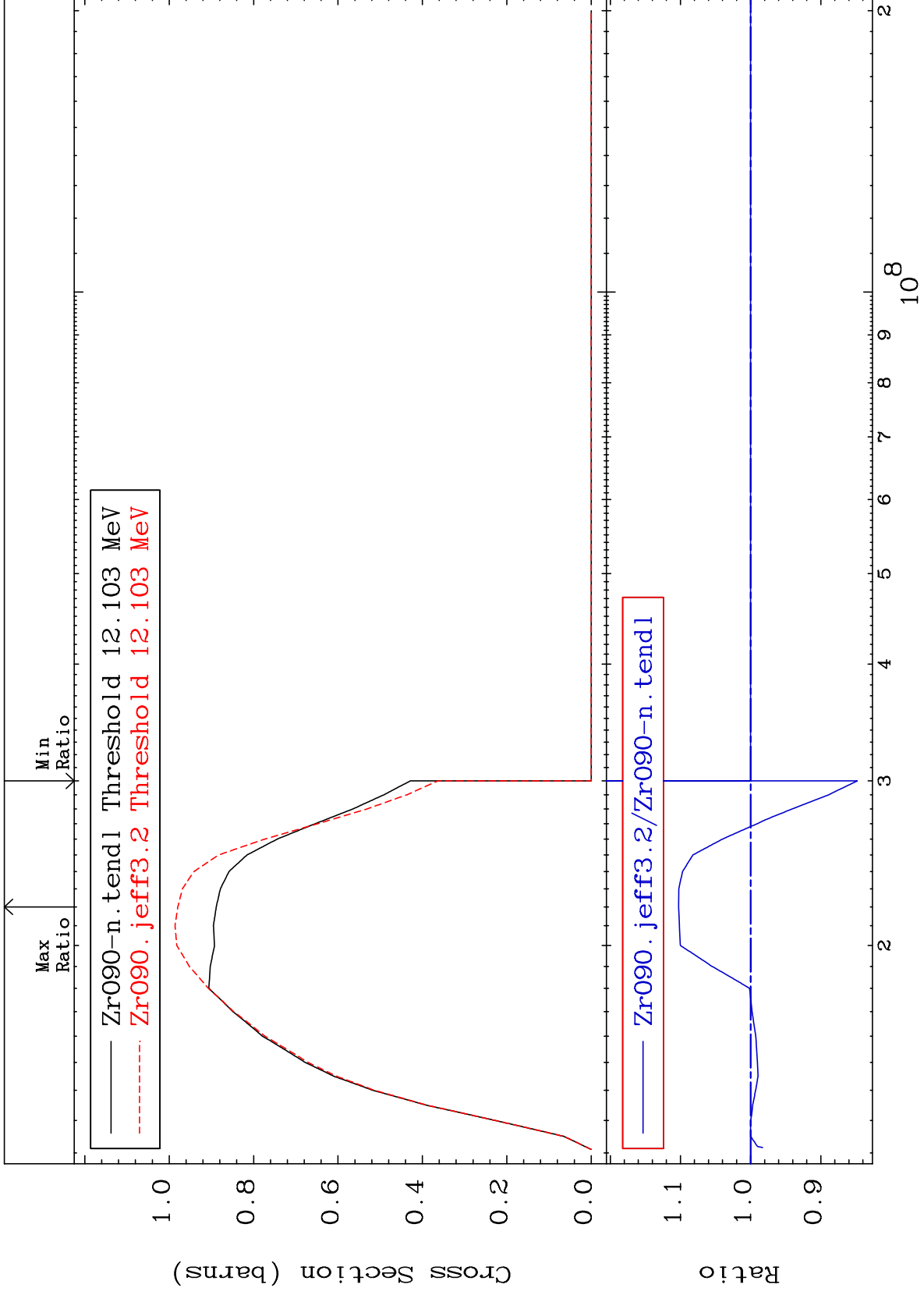


MAT 4025

(n,2n) : 40-Zr-89g

40-Zr-90

Radionuclide Production Cross Section -15.20 To 10.26 %



80

Incident Energy (eV)

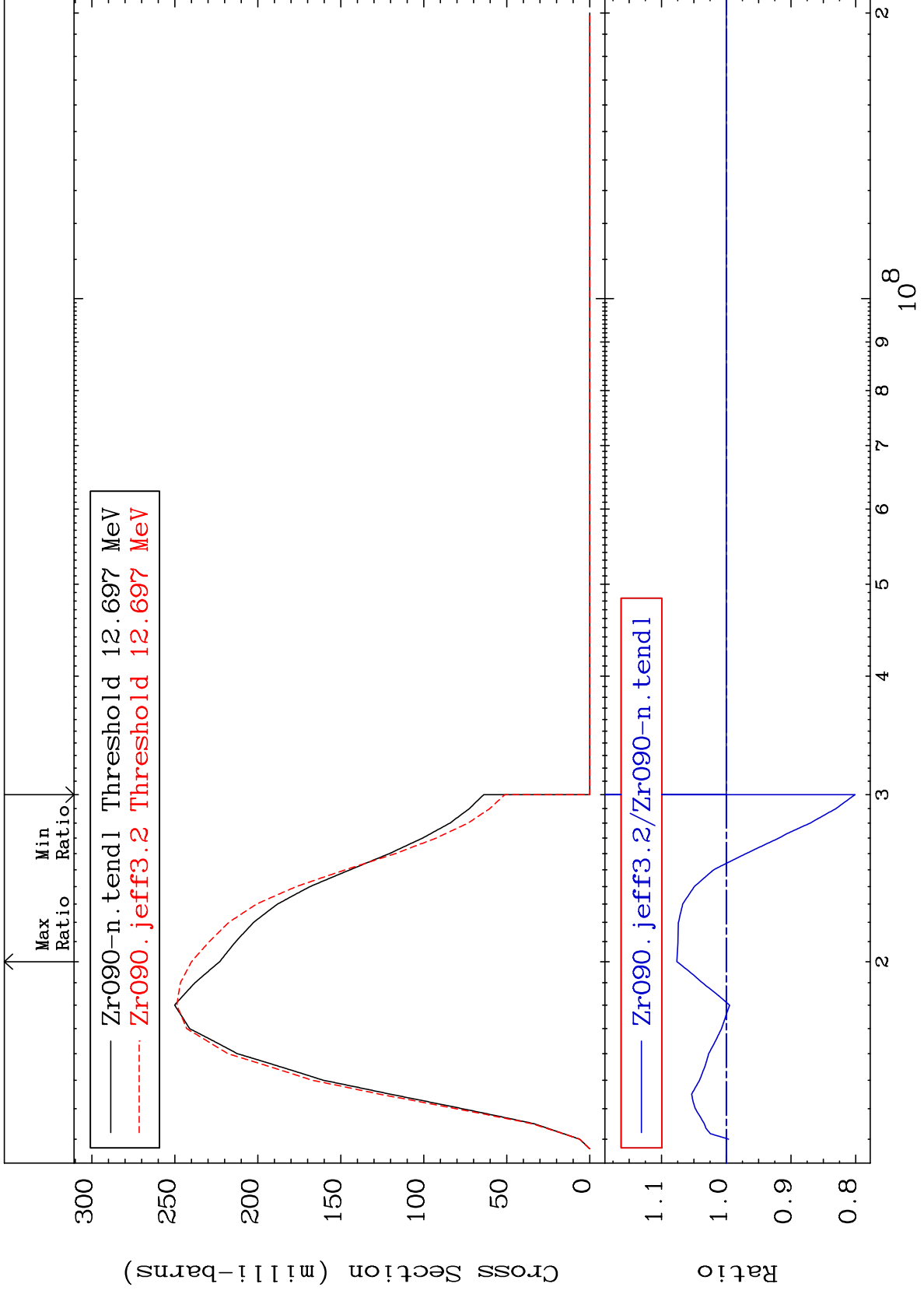
40-Zr-90

MAT 4025

(n,2n):40-Zr-89m1

40-Zr-90

Radionuclide Production Cross Section -19.91 To 7.621 %

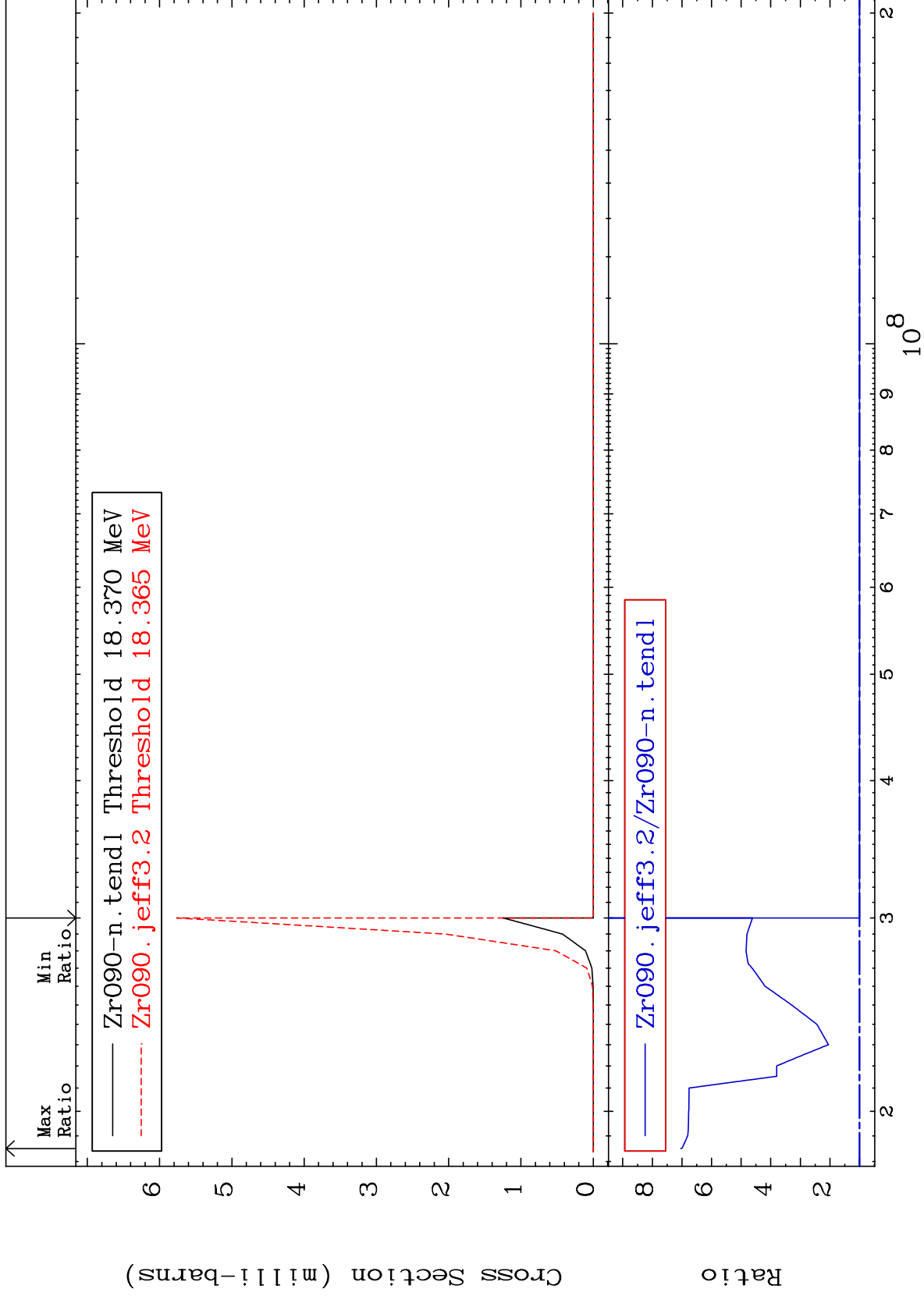


MAT 4025

(n,2n) α :38-Sr-85g

40-Zr-90

Radionuclide Production Cross Section 0.000 To 604.0 %



82

Incident Energy (eV)

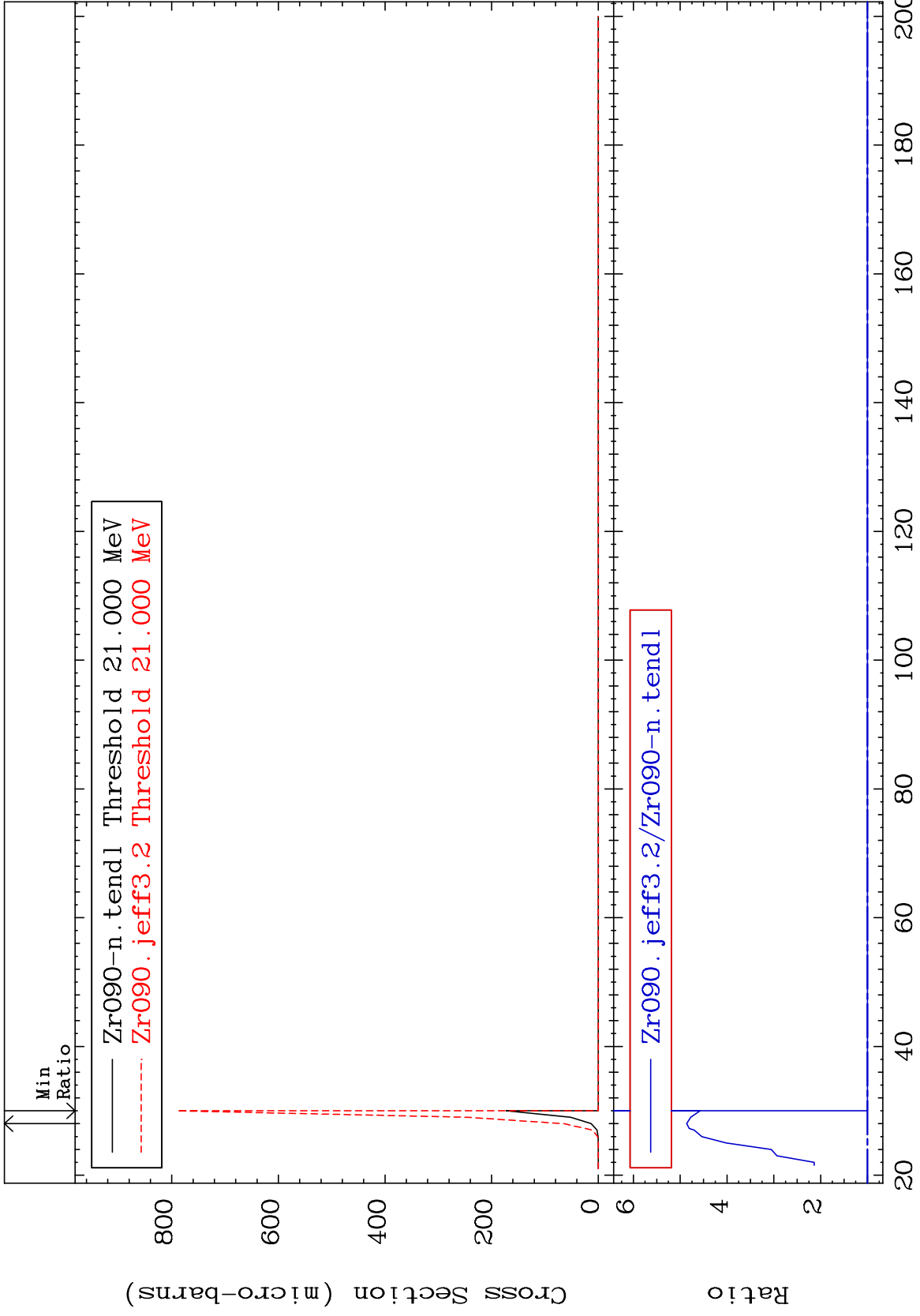
40-Zr-90

MAT 4025

(n,2n) α :38-Sr-85m2

40-Zr-90

Radionuclide Production Cross Section 0.000 To 386.0 %

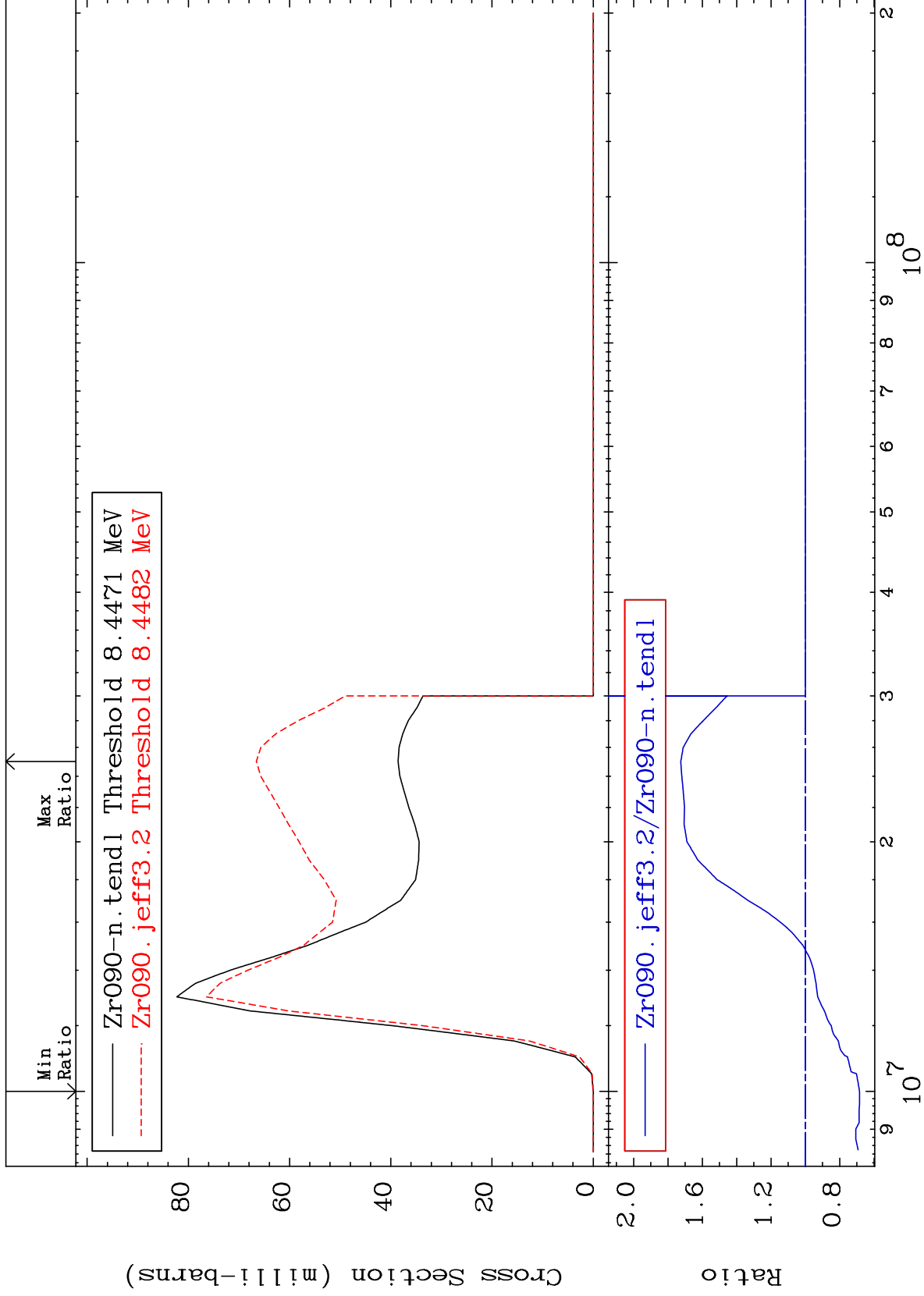


MAT 4025

(n, n') p:39-Y -89g

40-Zr-90

Radionuclide Production Cross Section -31.56 To 72.56 %



84

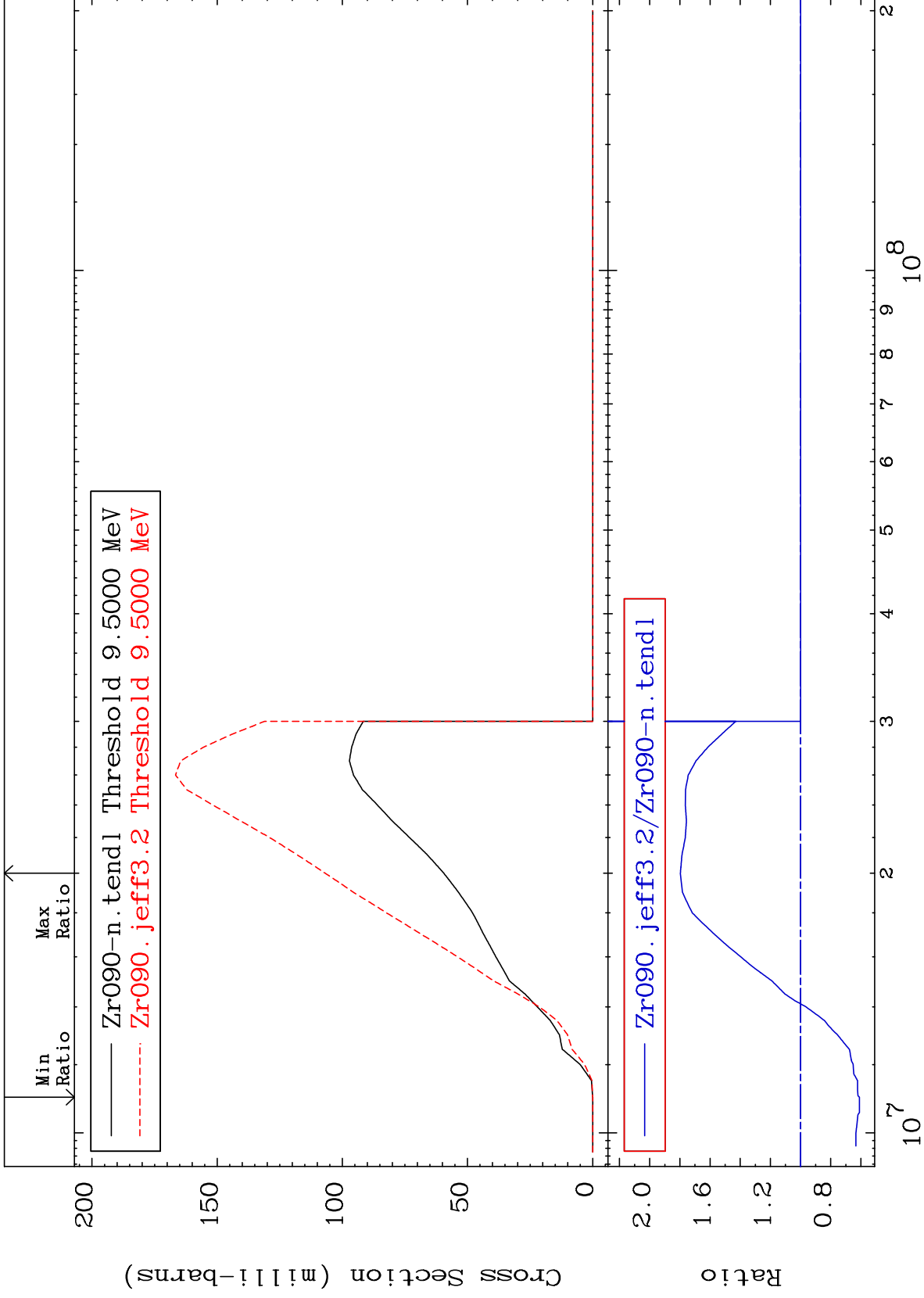
40-Zr-90

MAT 4025

(n, n') p:39-Y -89m1

40-Zr-90

Radionuclide Production Cross Section -39.01 To 79.68 %



85

Incident Energy (eV)

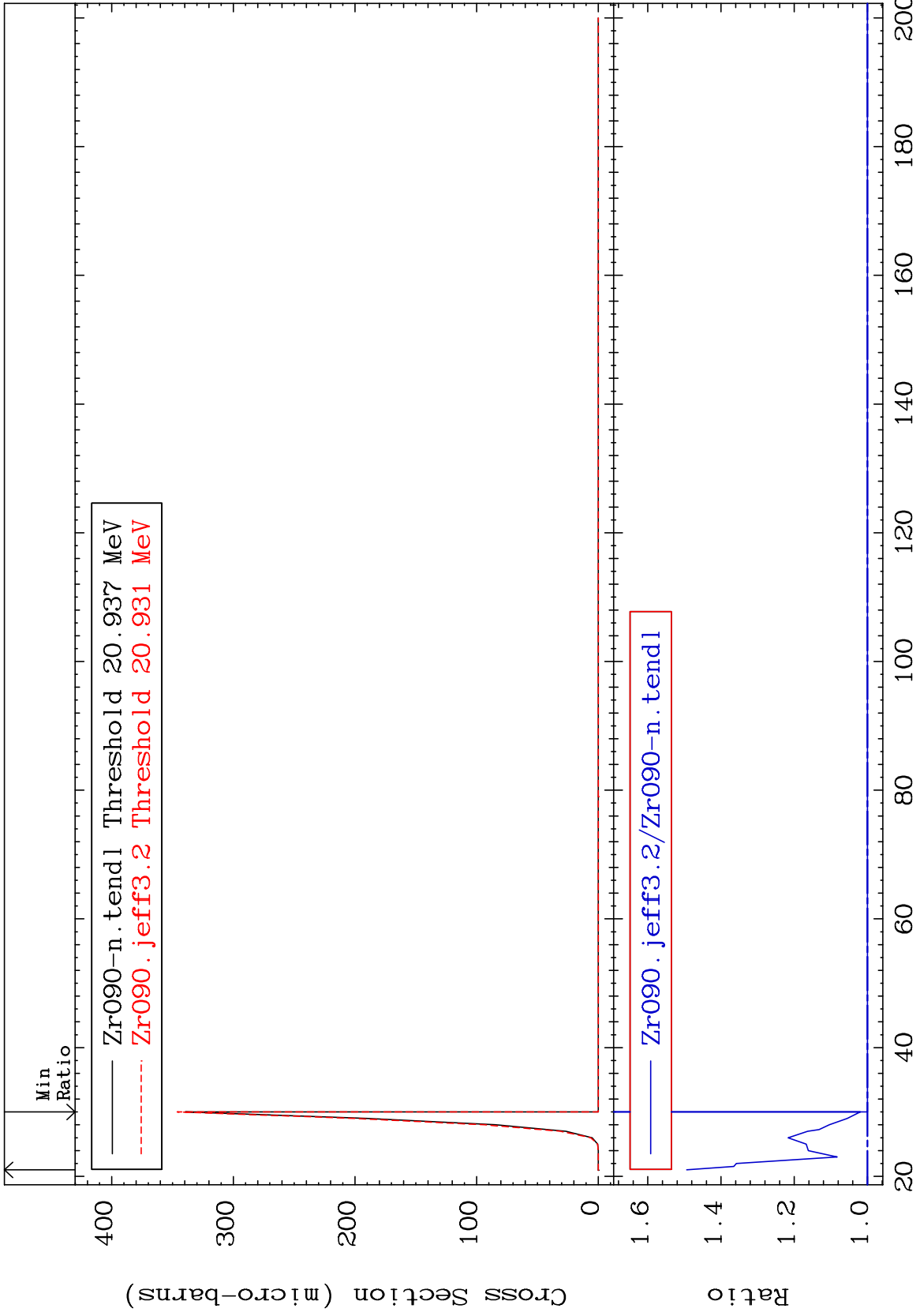
40-Zr-90

MAT 4025

(n, n') t:39-Y -87g

40-Zr-90

Radionuclide Production Cross Section 0.000 To 49.37 %

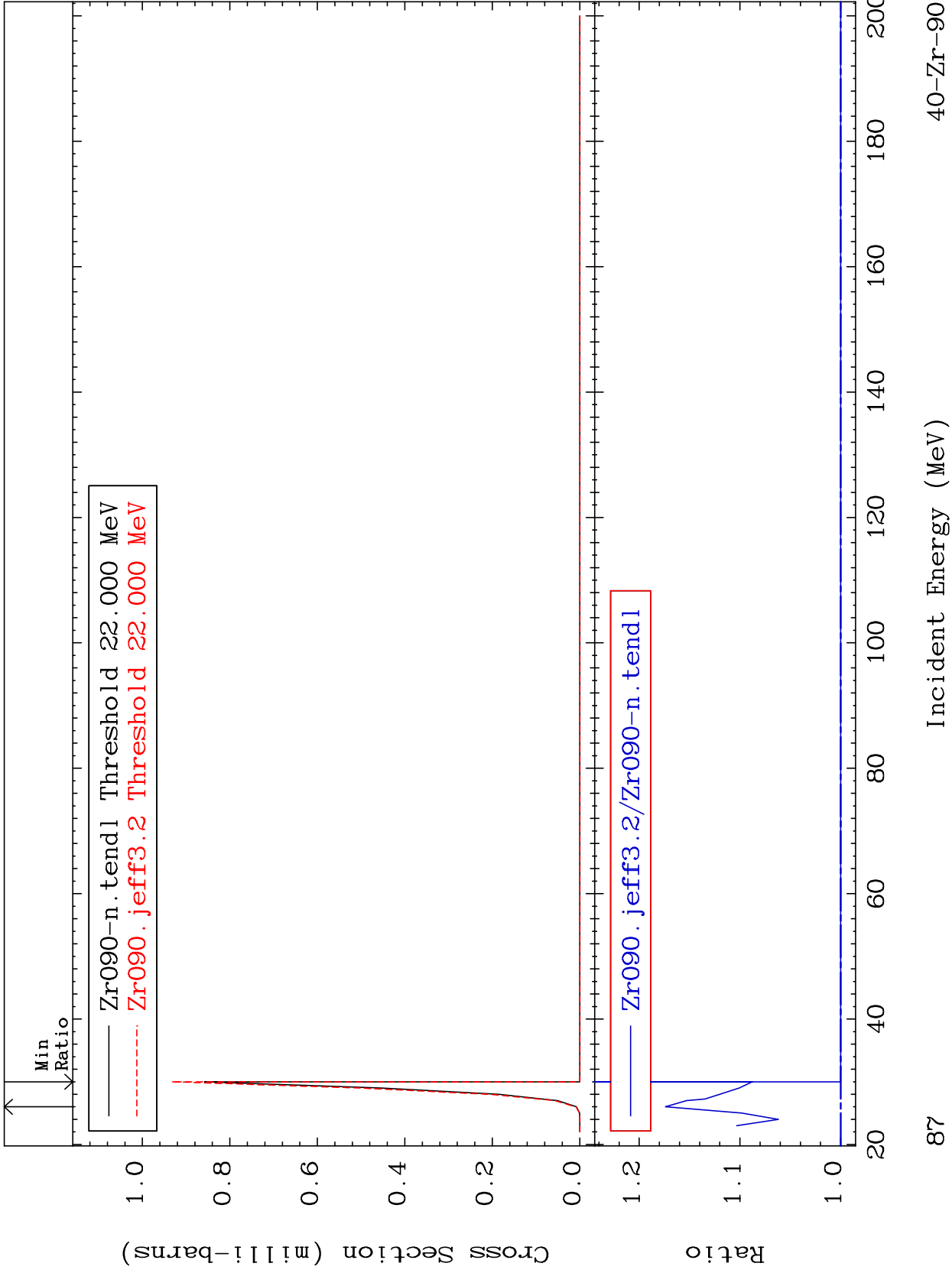


MAT 4025

(n, n') t:39-Y -87m1

40-Zr-90

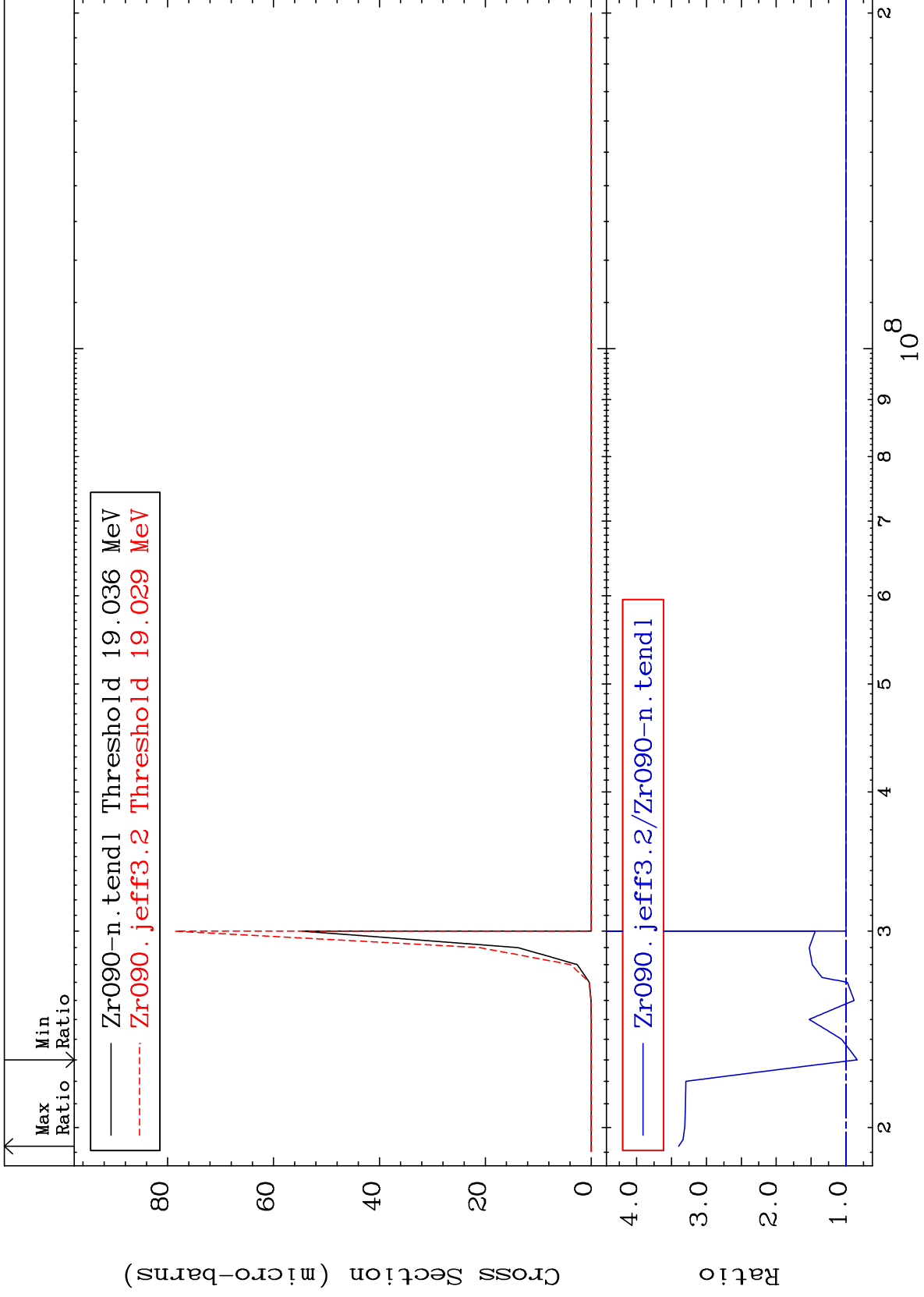
Radionuclide Production Cross Section 0.000 To 17.39 %



87

MAT 4025

(n, n') He-3:38-Sr-87g 40-Zr-90
Radionuclide Production Cross Section -16.16 To 239.8 %

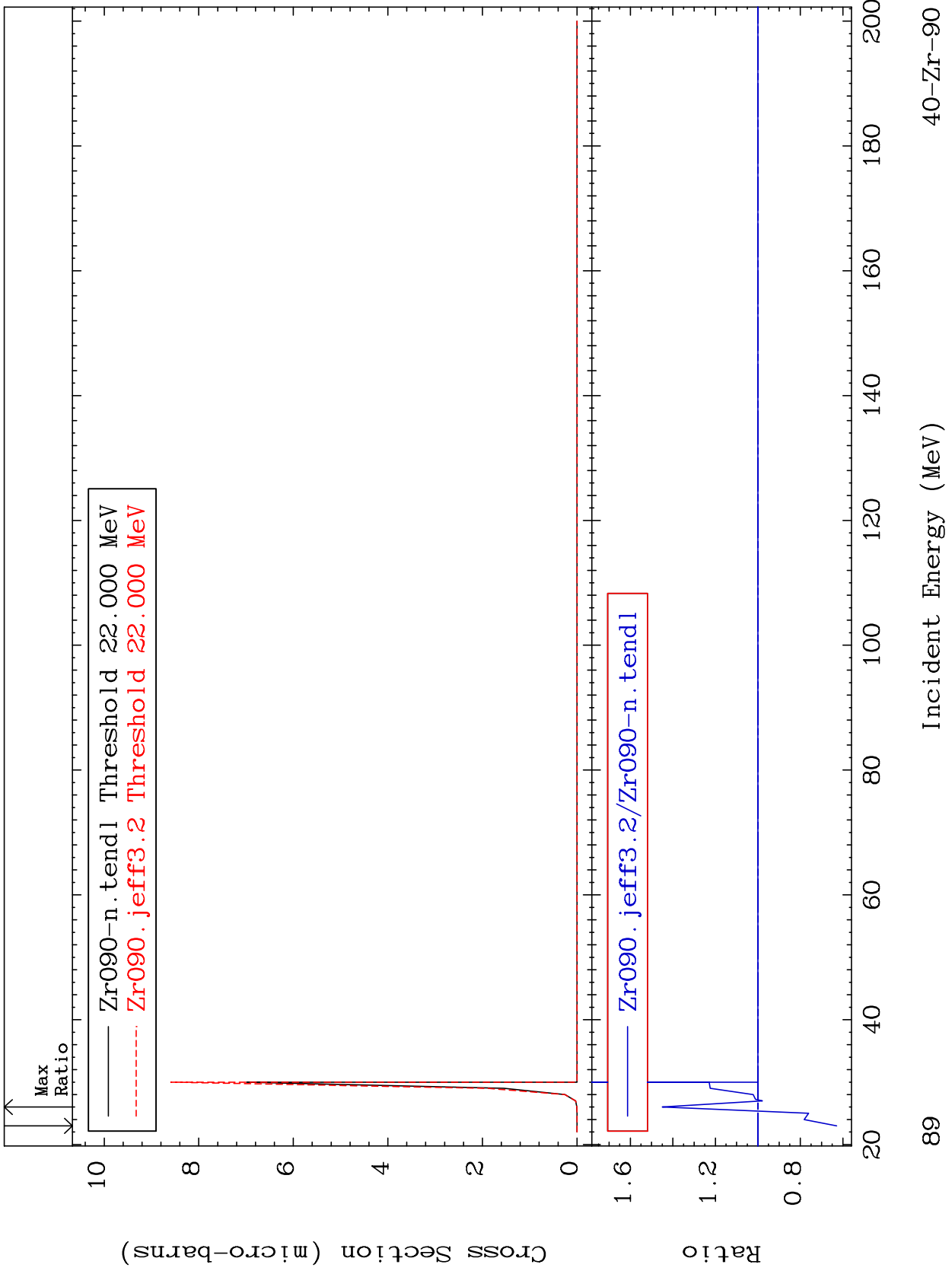


MAT 4025

(n, n') He-3:38-Sr-87m1

40-Zr-90

Radionuclide Production Cross Section -37.07 To 44.96 %



89

Incident Energy (MeV)

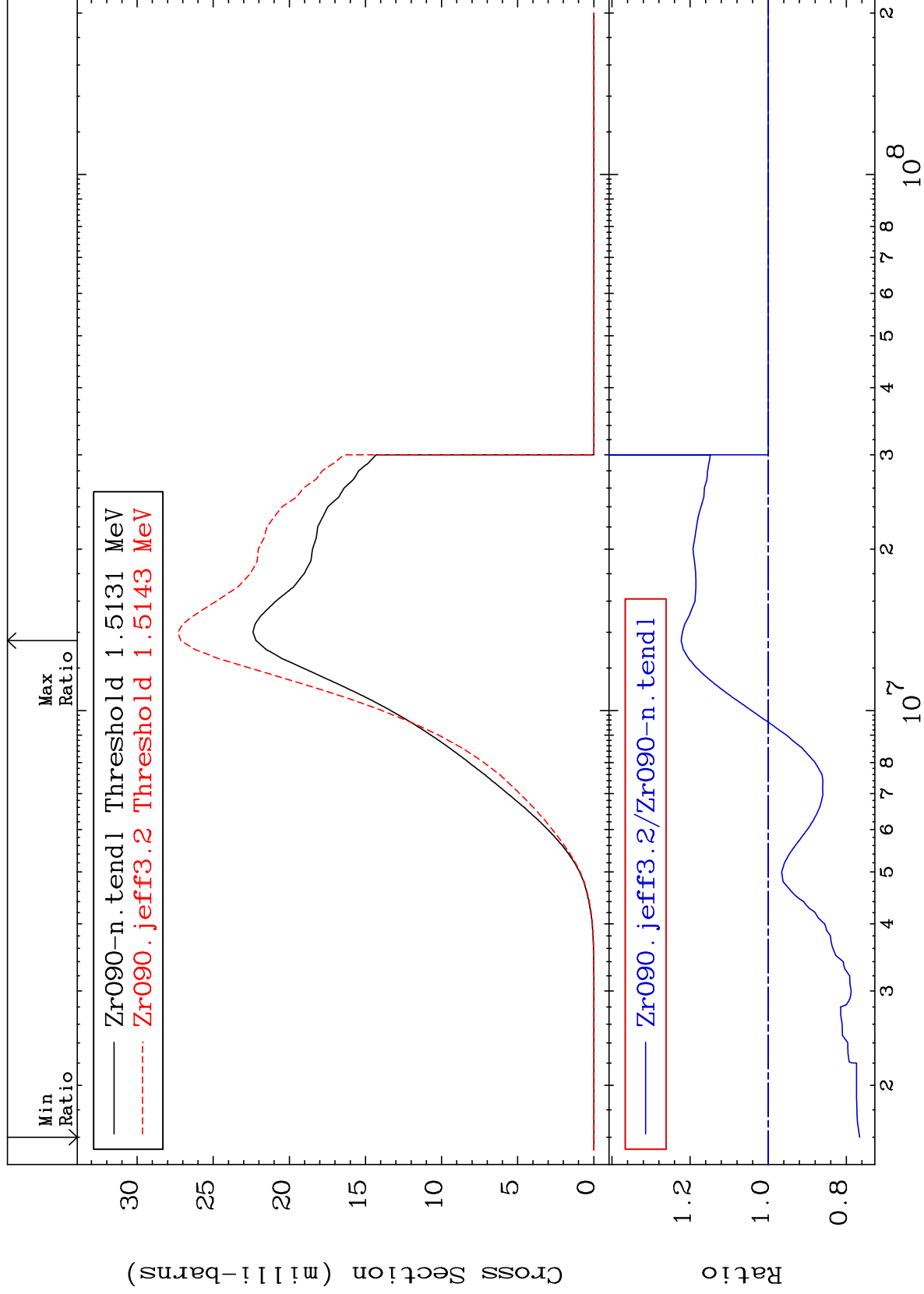
40-Zr-90

MAT 4025

(n, p):39-Y -90g

40-Zr-90

Radionuclide Production Cross Section -23.41 To 22.28 %



90

Incident Energy (eV)

40-Zr-90

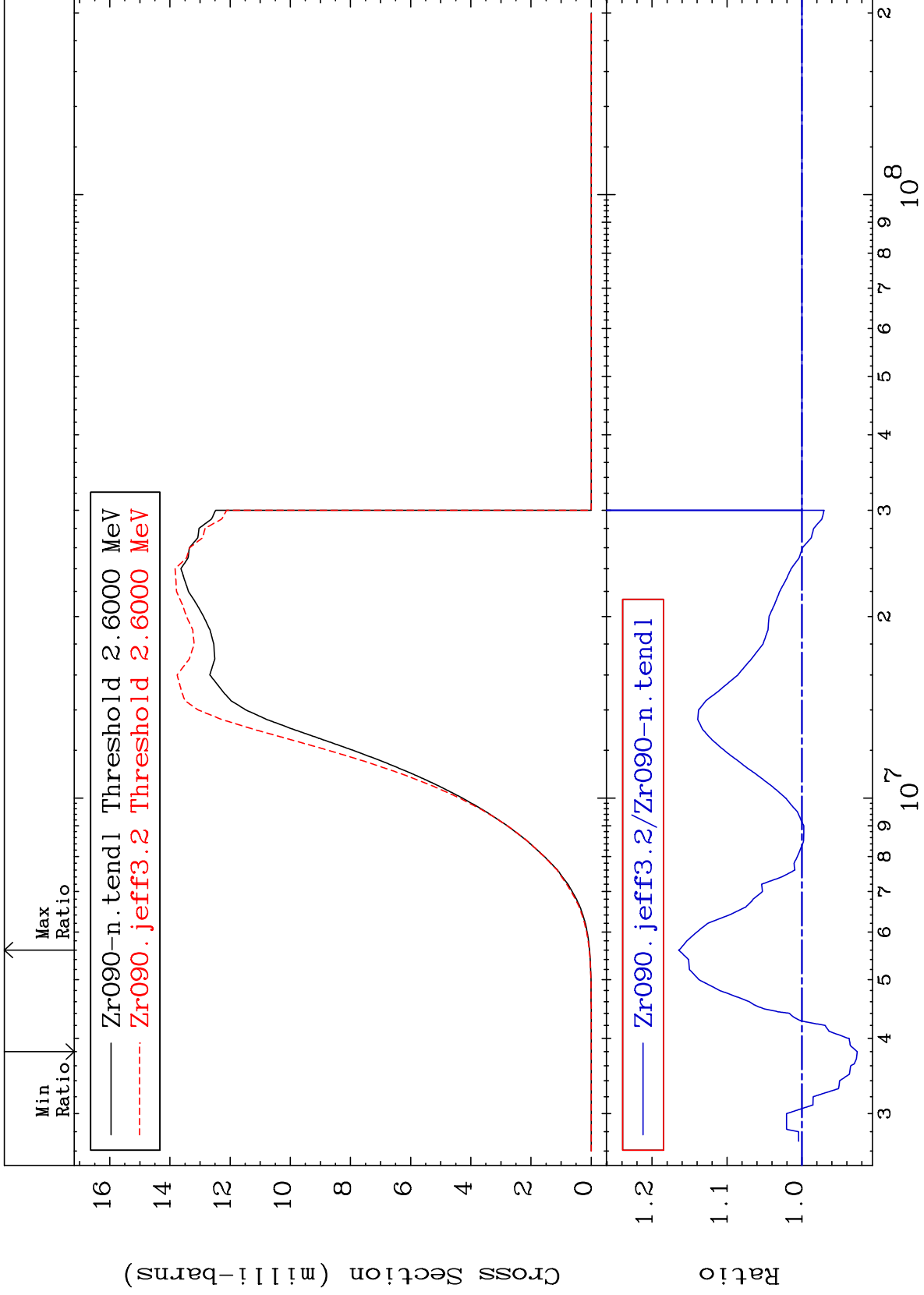
MAT 4025

(n, p) : 39-Y -90m2

40-Zr-90

Radionuclide Production Cross Section

-7.378 To 16.45 %

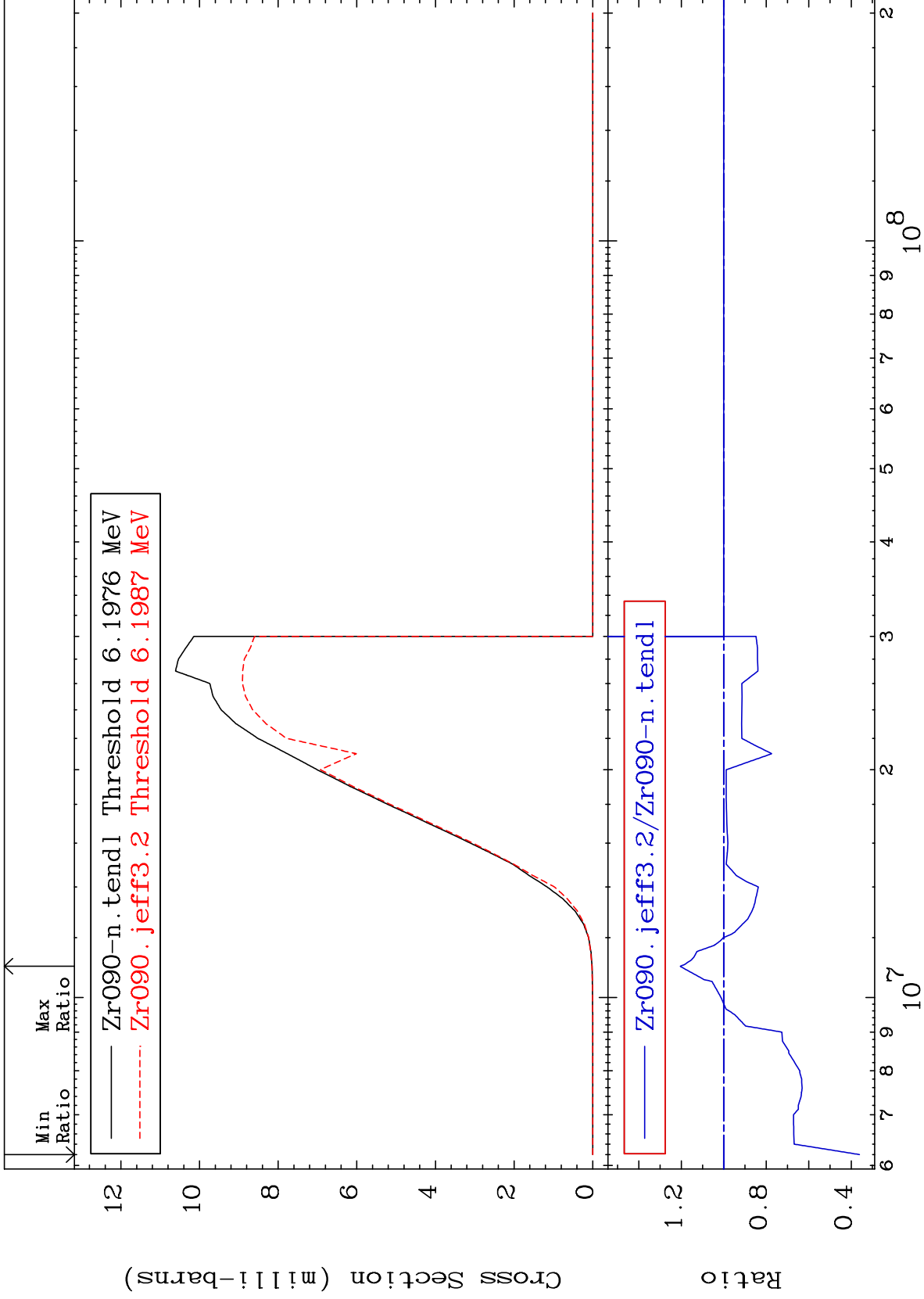


MAT 4025

(n, d):39-Y -89g

40-Zr-90

Radionuclide Production Cross Section -63.88 To 20.44 %

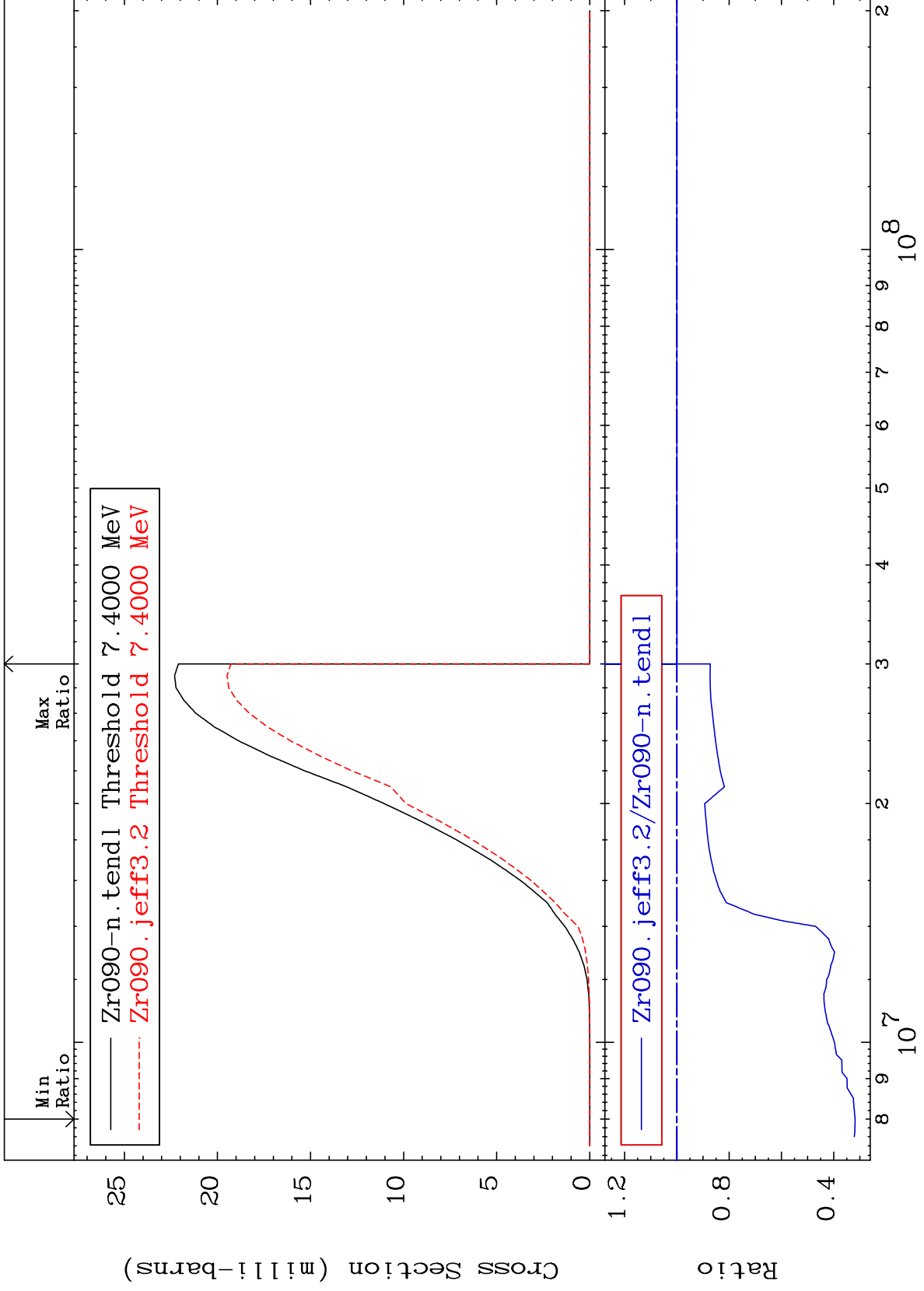


MAT 4025

(n, d) : 39-Y -89m1

40-Zr-90

Radionuclide Production Cross Section -68.14 To 0.000 %



93

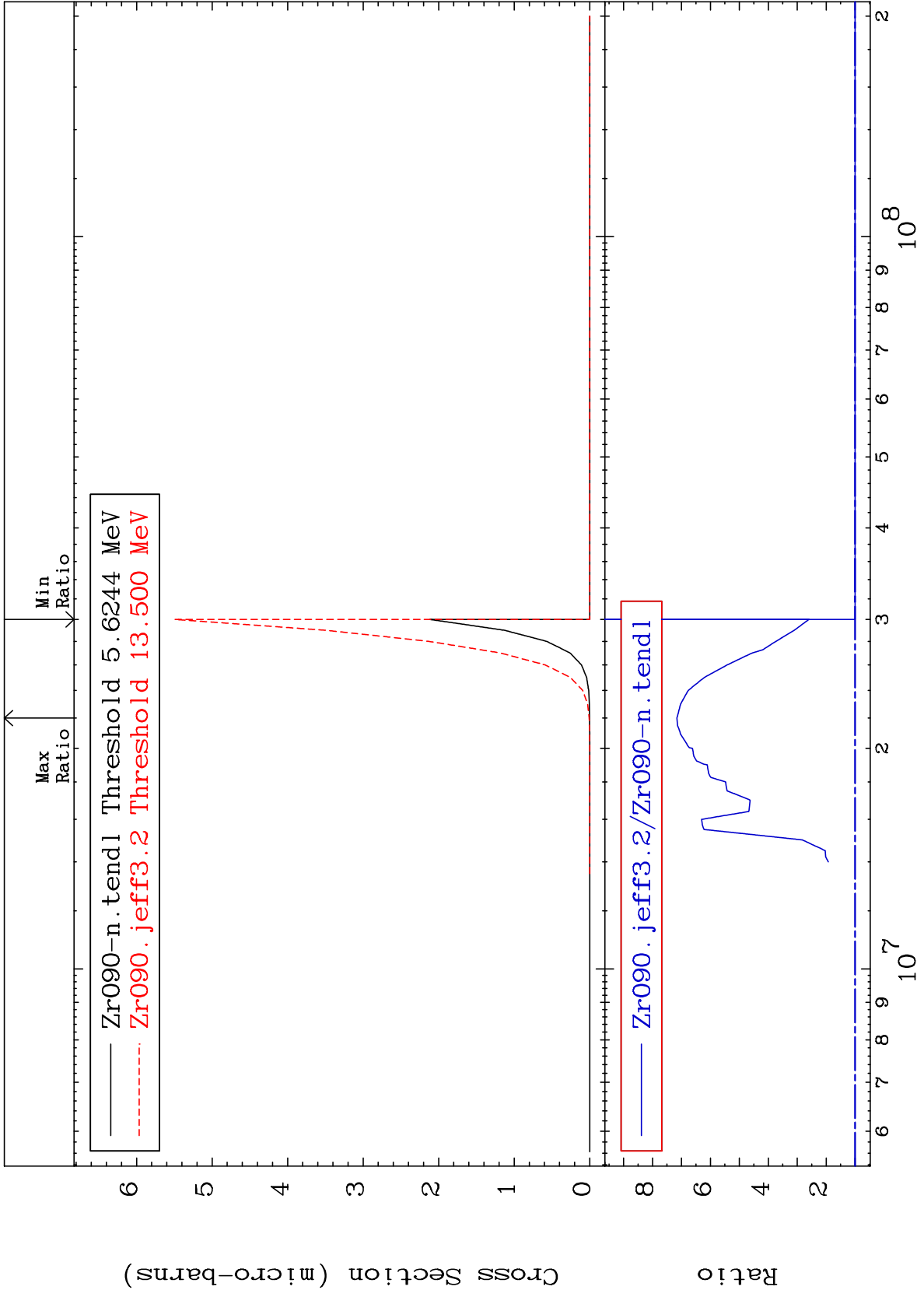
Incident Energy (eV)

40-Zr-90

MAT 4025

(n,2α) : 36-Kr-83g
Radionuclide Production Cross Section 0.000 To 615.7 %

40-Zr-90

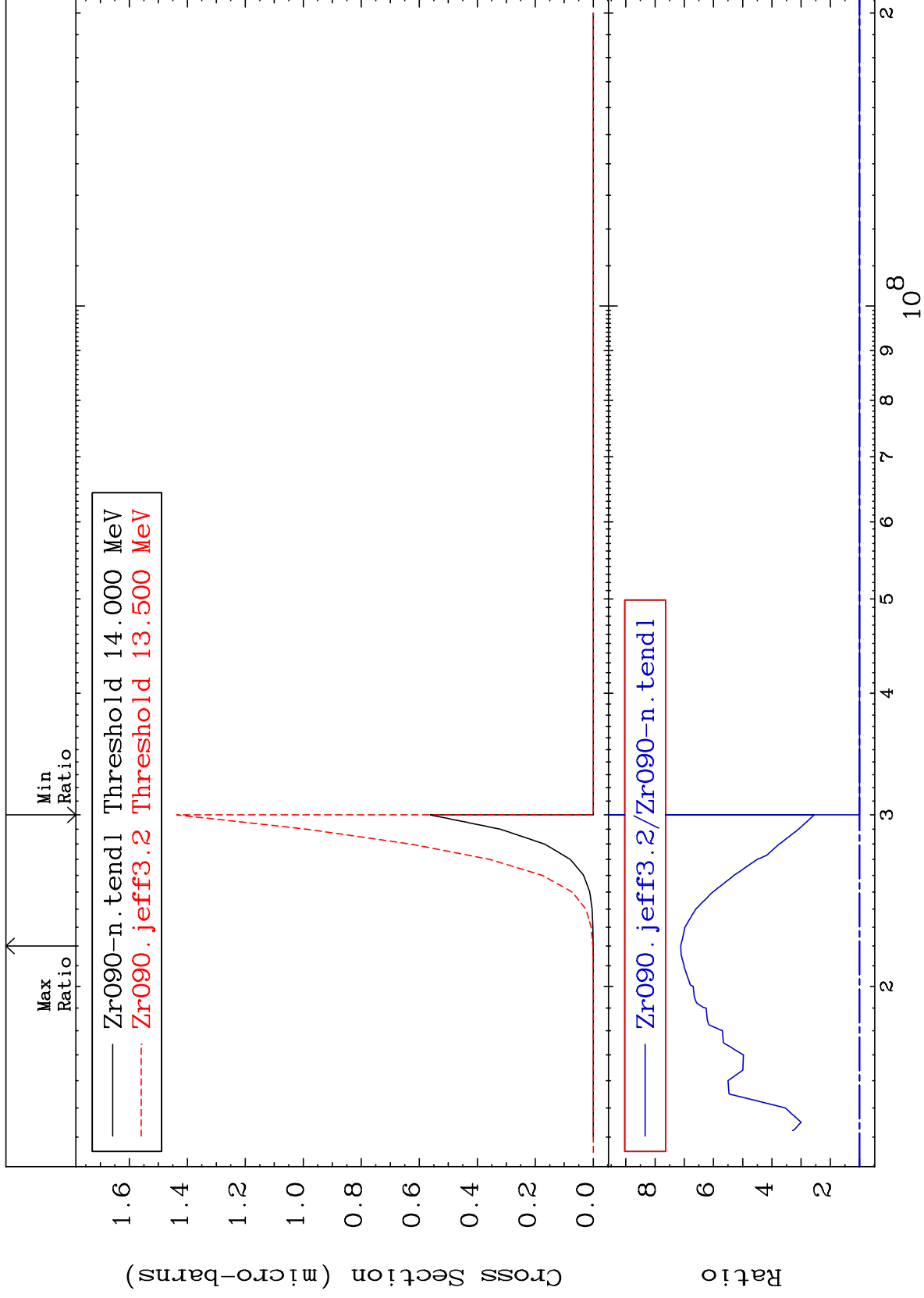


MAT 4025

(n,2α):36-Kr-83m2

40-Zr-90

Radionuclide Production Cross Section 0.000 To 611.9 %

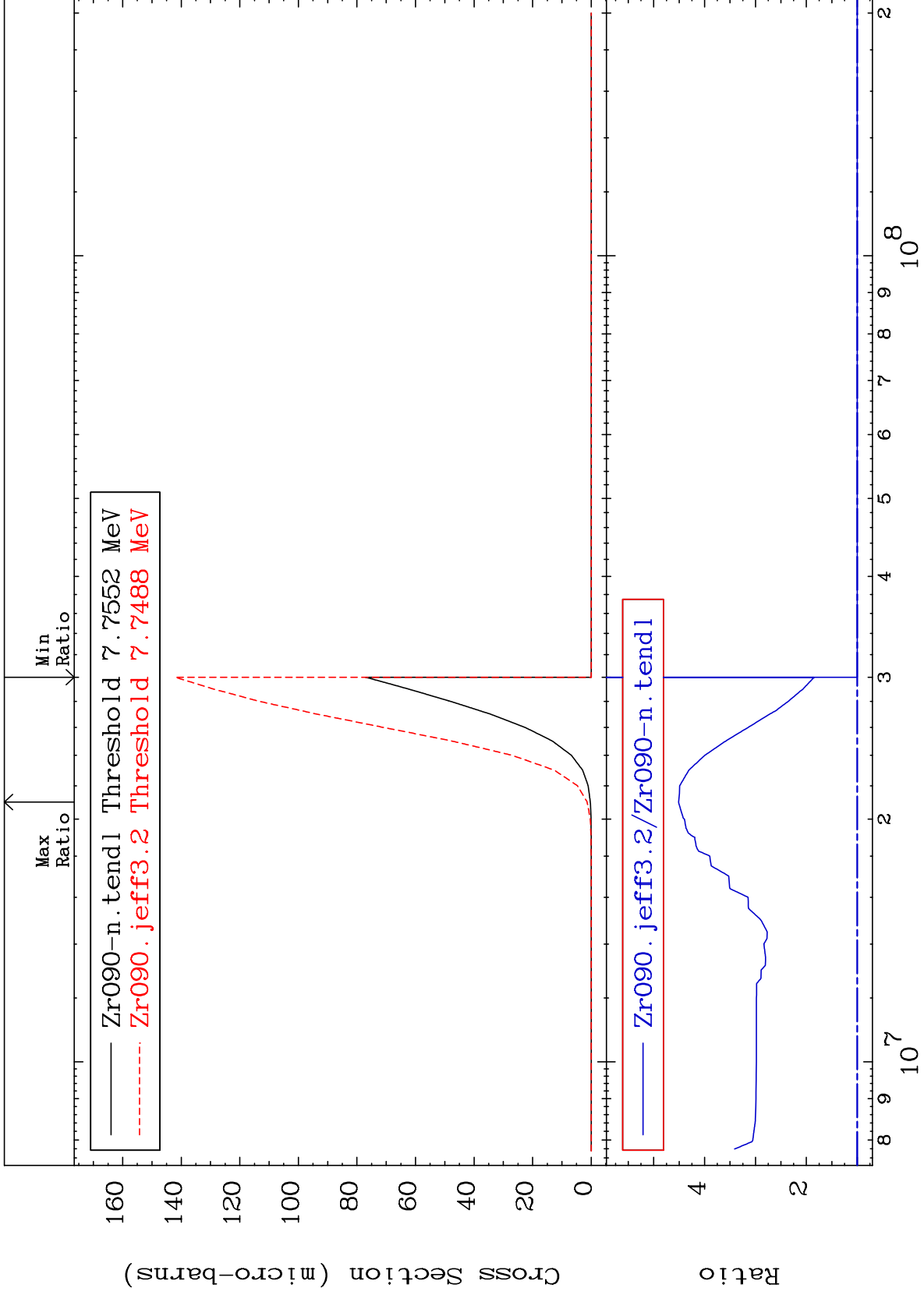


MAT 4025

(n, p) α : 37-Rb-86g

40-Zr-90

Radionuclide Production Cross Section 0.000 To 351.0 %



96

Incident Energy (eV)

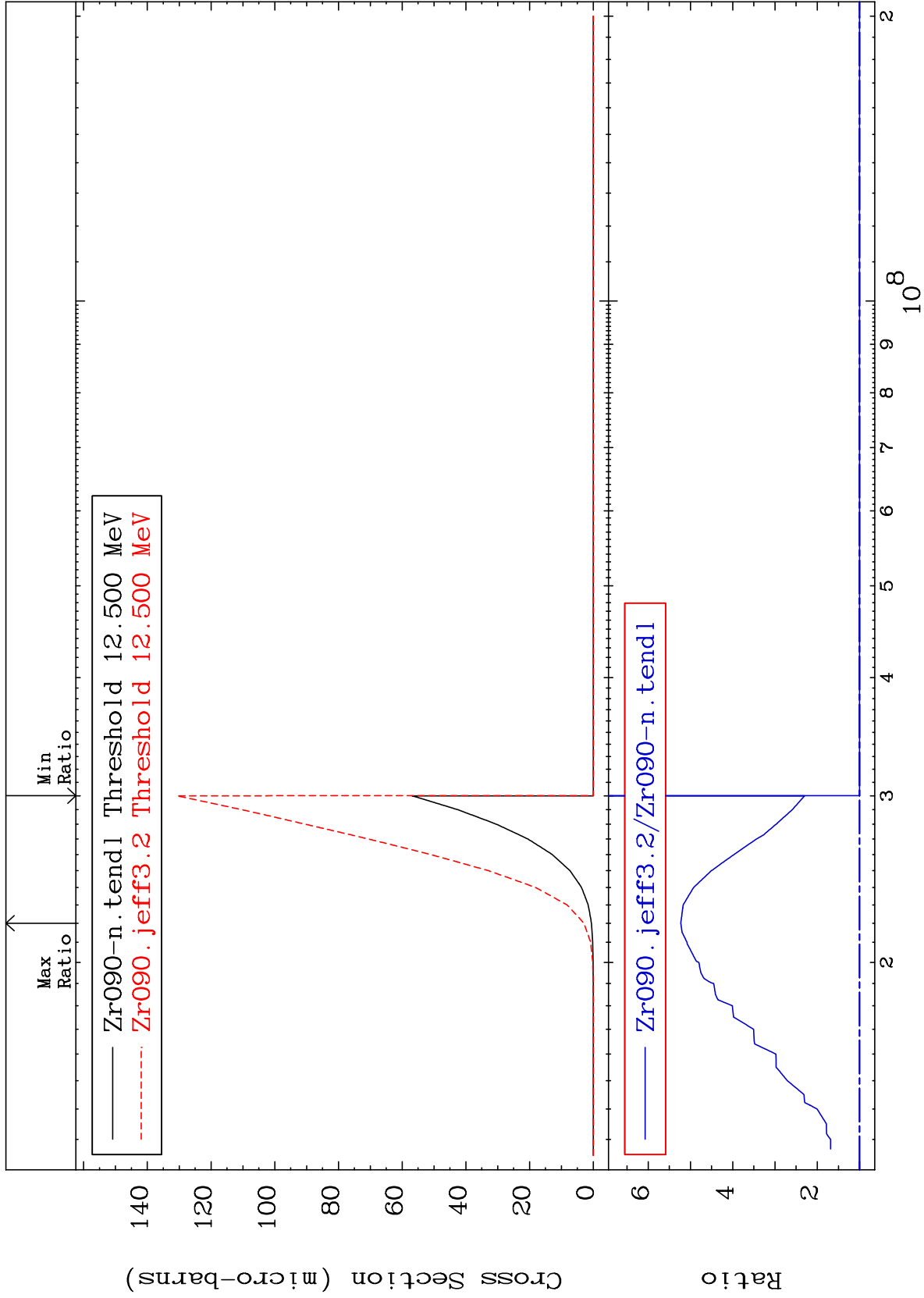
40-Zr-90

MAT 4025

(n, p) α : 37-Rb-86m2

40-Zr-90

Radionuclide Production Cross Section 0.000 To 423.0 %

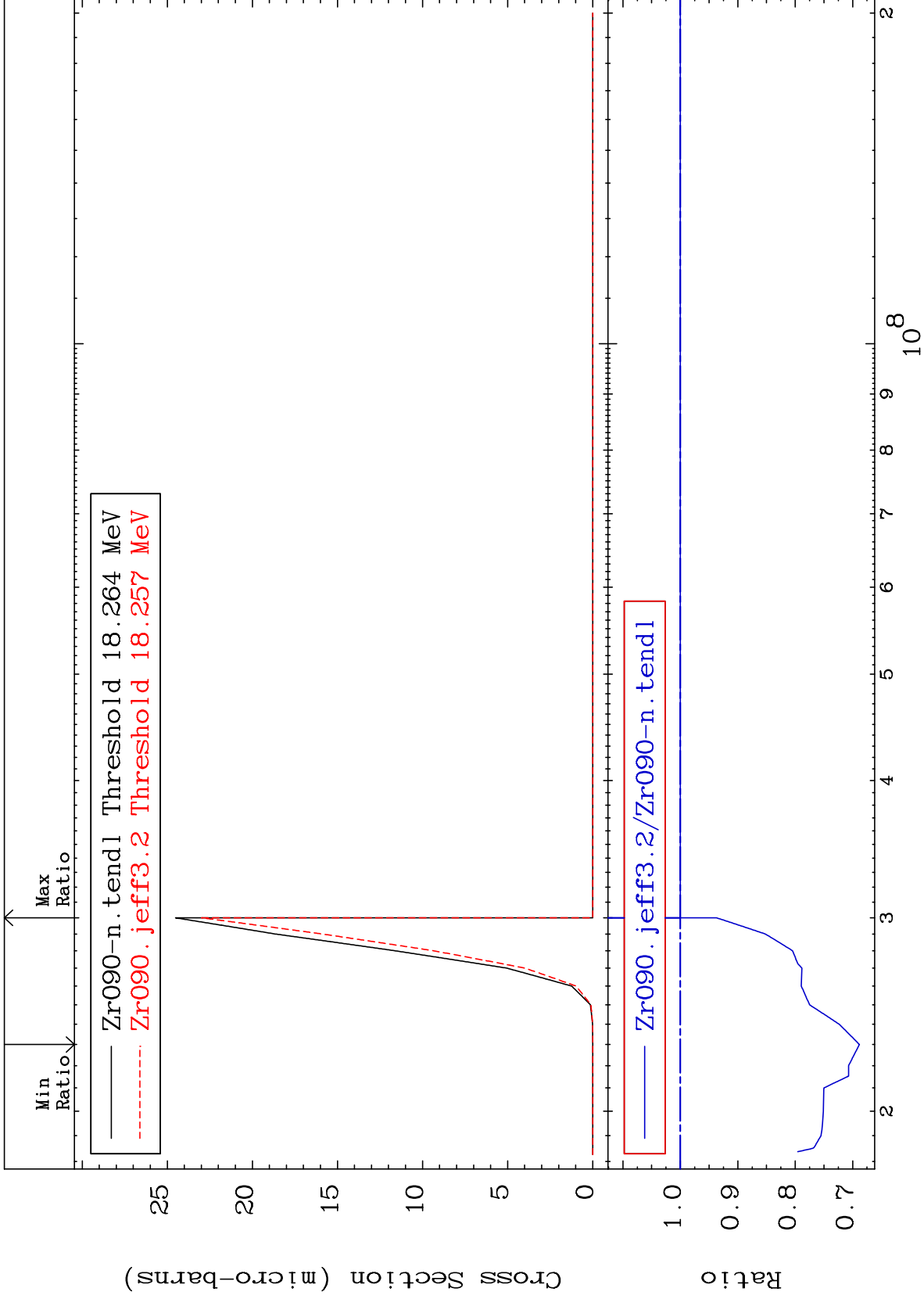


97

Incident Energy (eV)

40-Zr-90

Radionuclide Production Cross Section -31.18 To 0.000 %



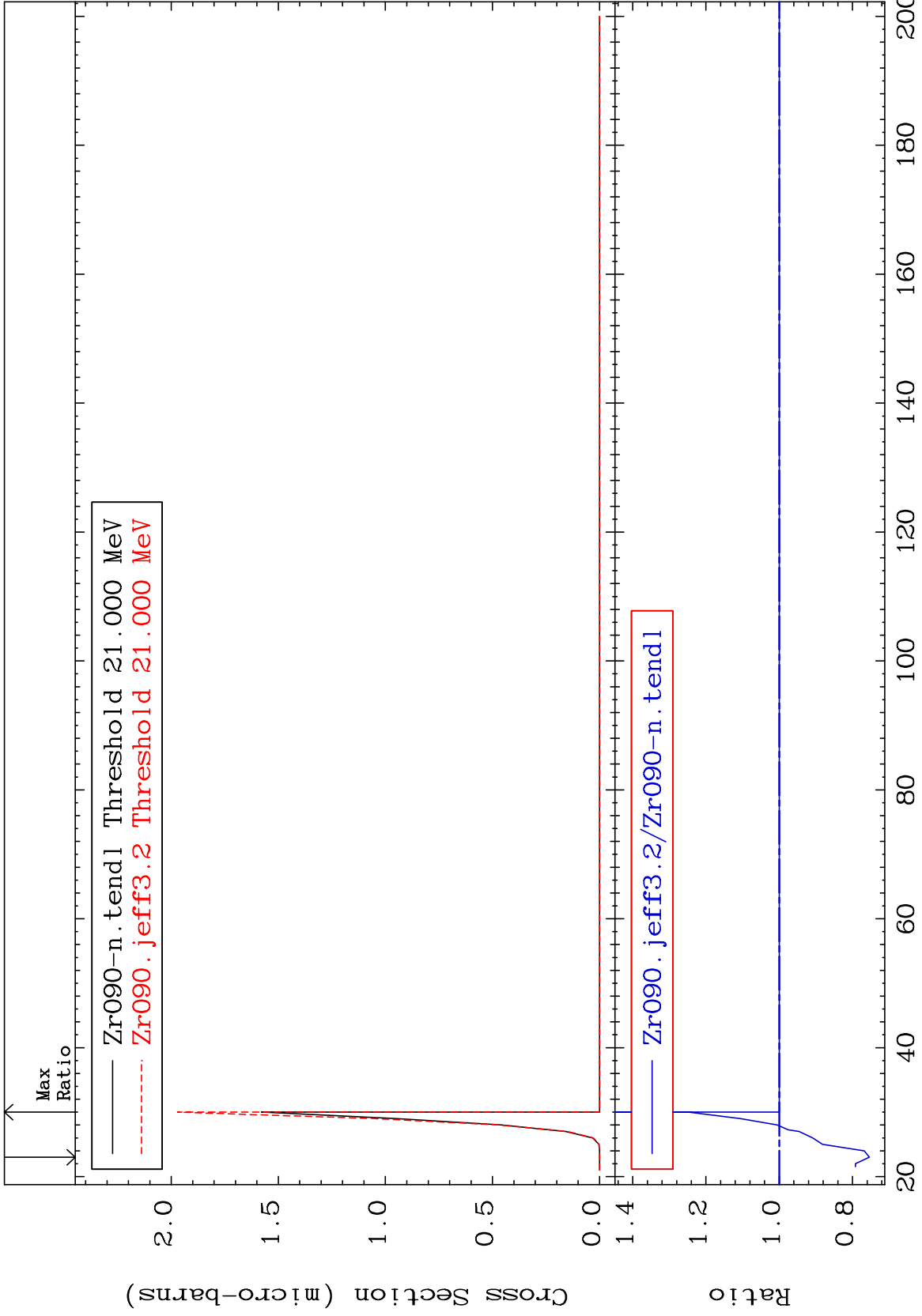
MAT 4025

(n, p) t:38-Sr-87m1

40-Zr-90

Radionuclide Production Cross Section

-24.58 To 24.85 %



99

Incident Energy (MeV)

40-Zr-90