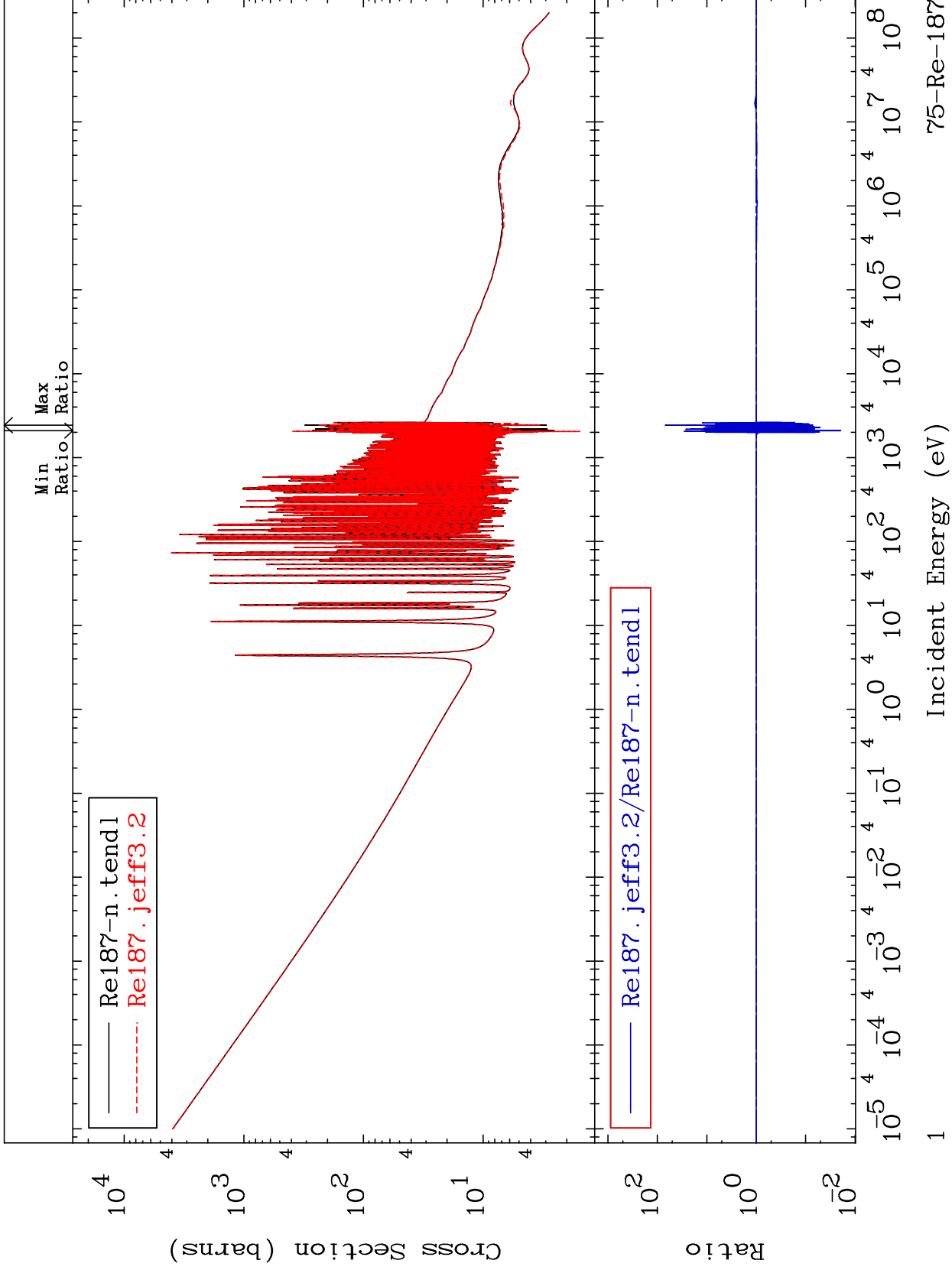


MAT 7531

Total

Cross Section

75-Re-187
-98.04 To 6743. %



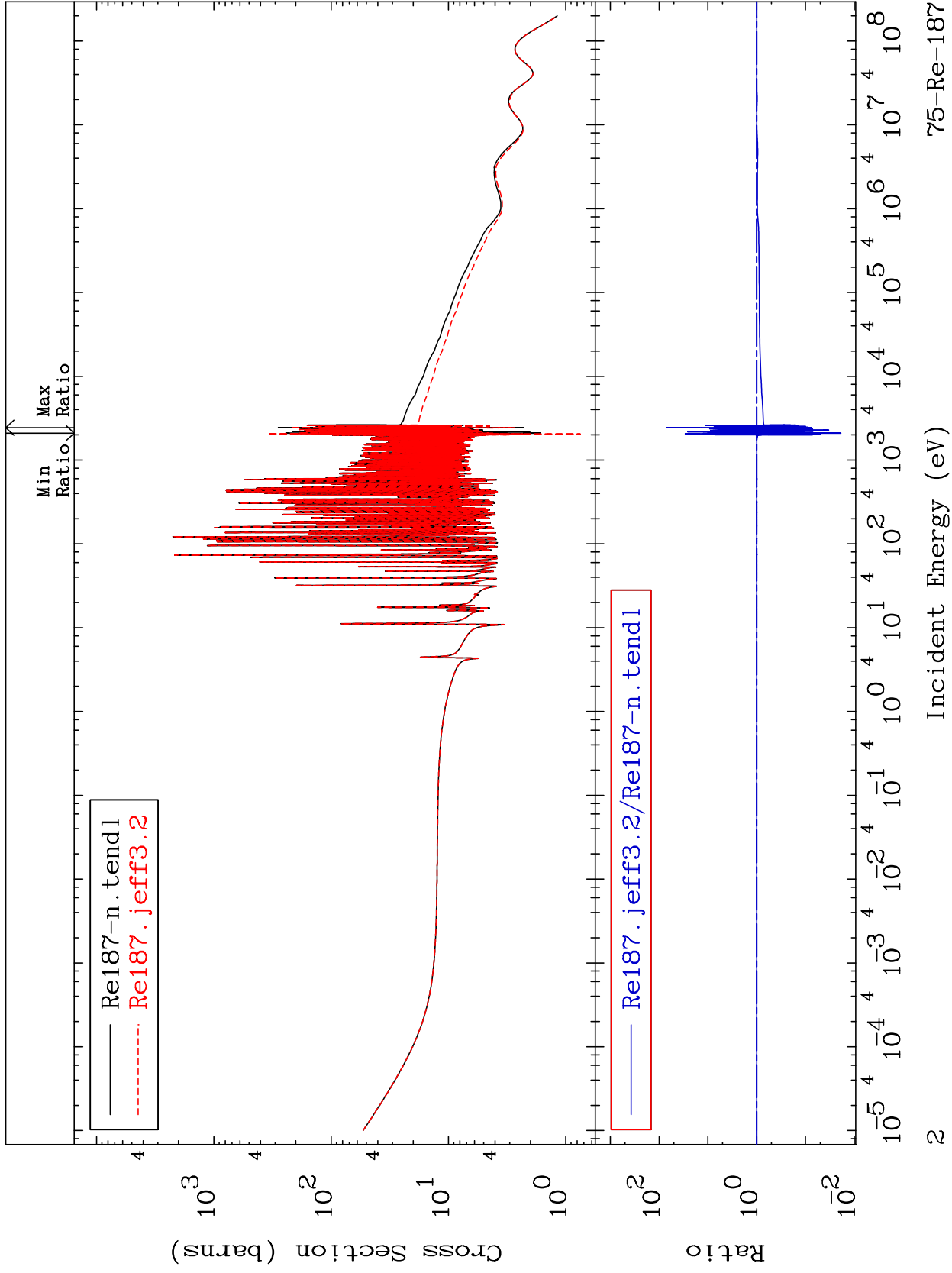
Incident Energy (eV)

75-Re-187

MAT 7531

Elastic
Cross Section

75-Re-187
-98.11 To 7135. %



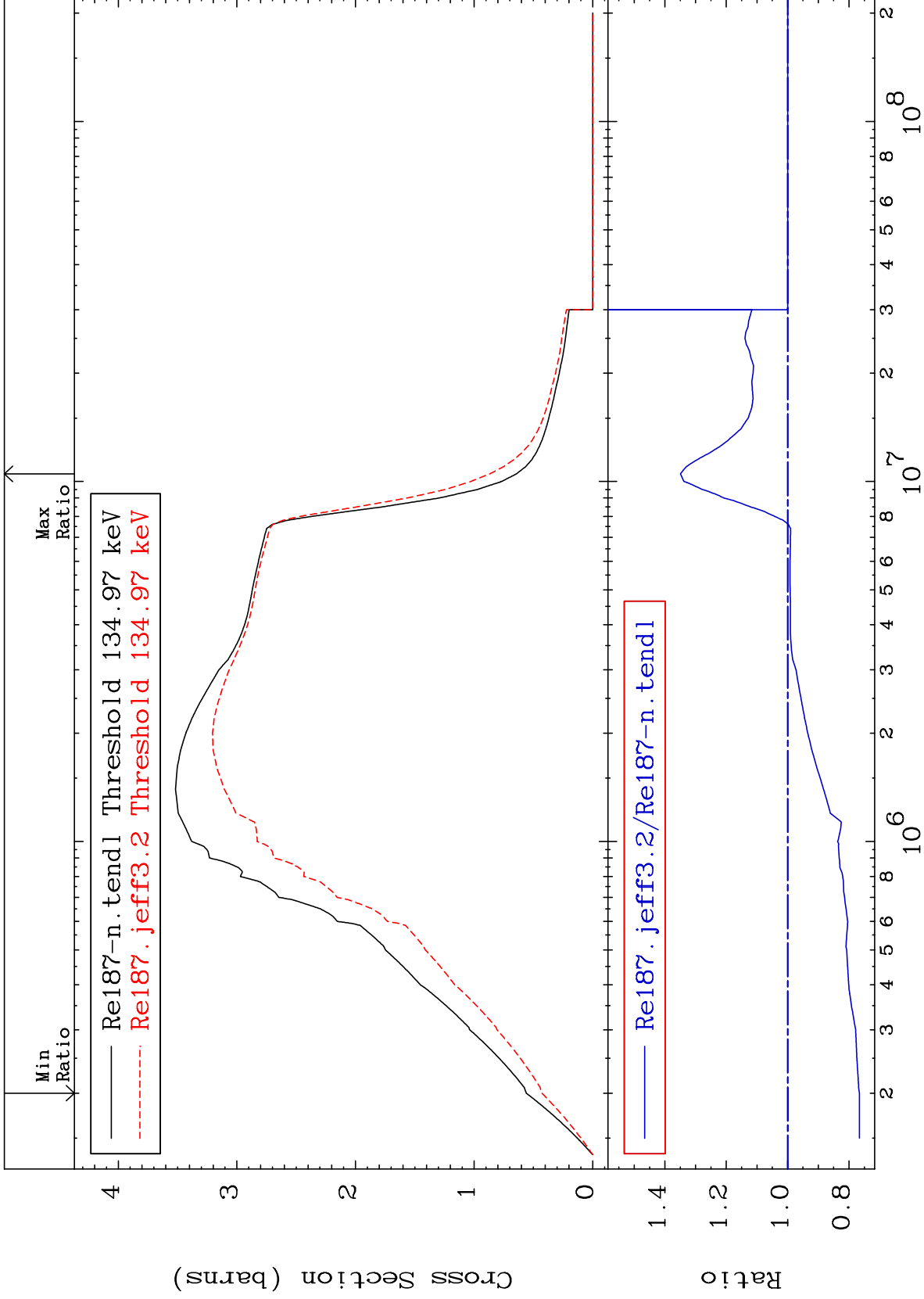
75-Re-187

Incident Energy (eV)

MAT 7531

Inelastic
Cross Section

75-Re-187
-23.40 To 34.97 %



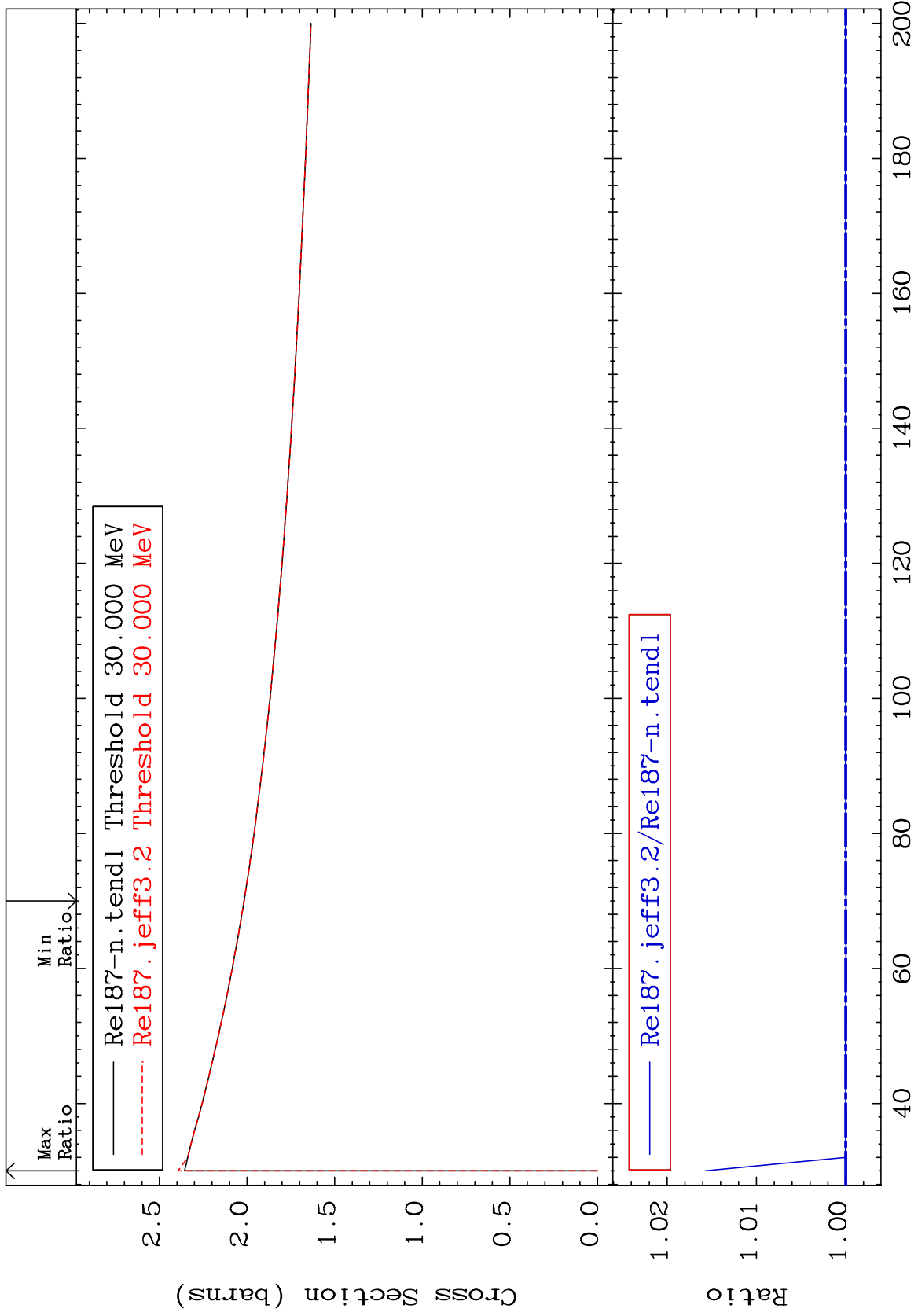
3

75-Re-187

MAT 7531

(n, remainder)
Cross Section

⁷⁵Re-187
-0.002 To 1.572 %



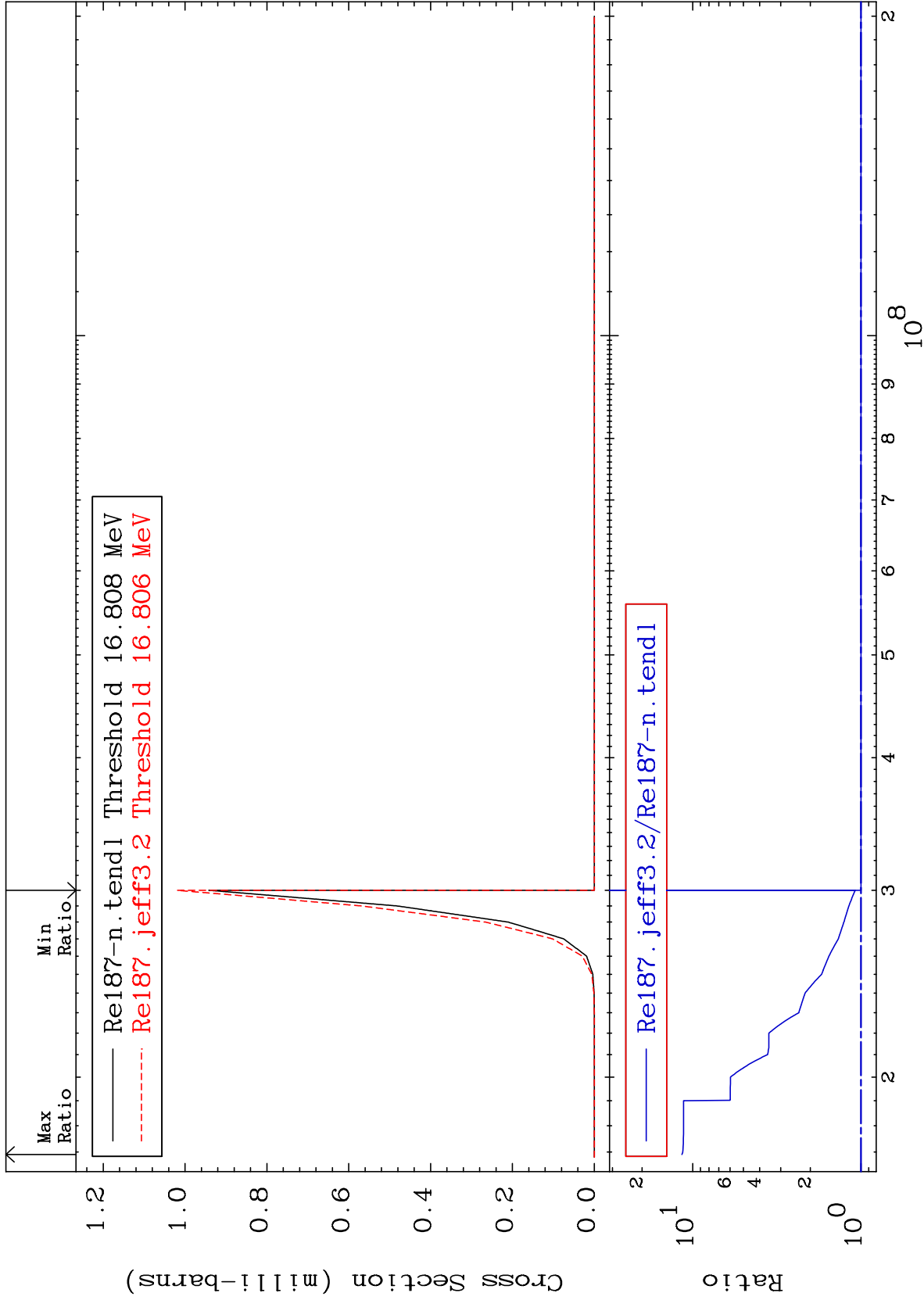
MAT 7531

(n,2n) d

⁷⁵Re-¹⁸⁷

Cross Section

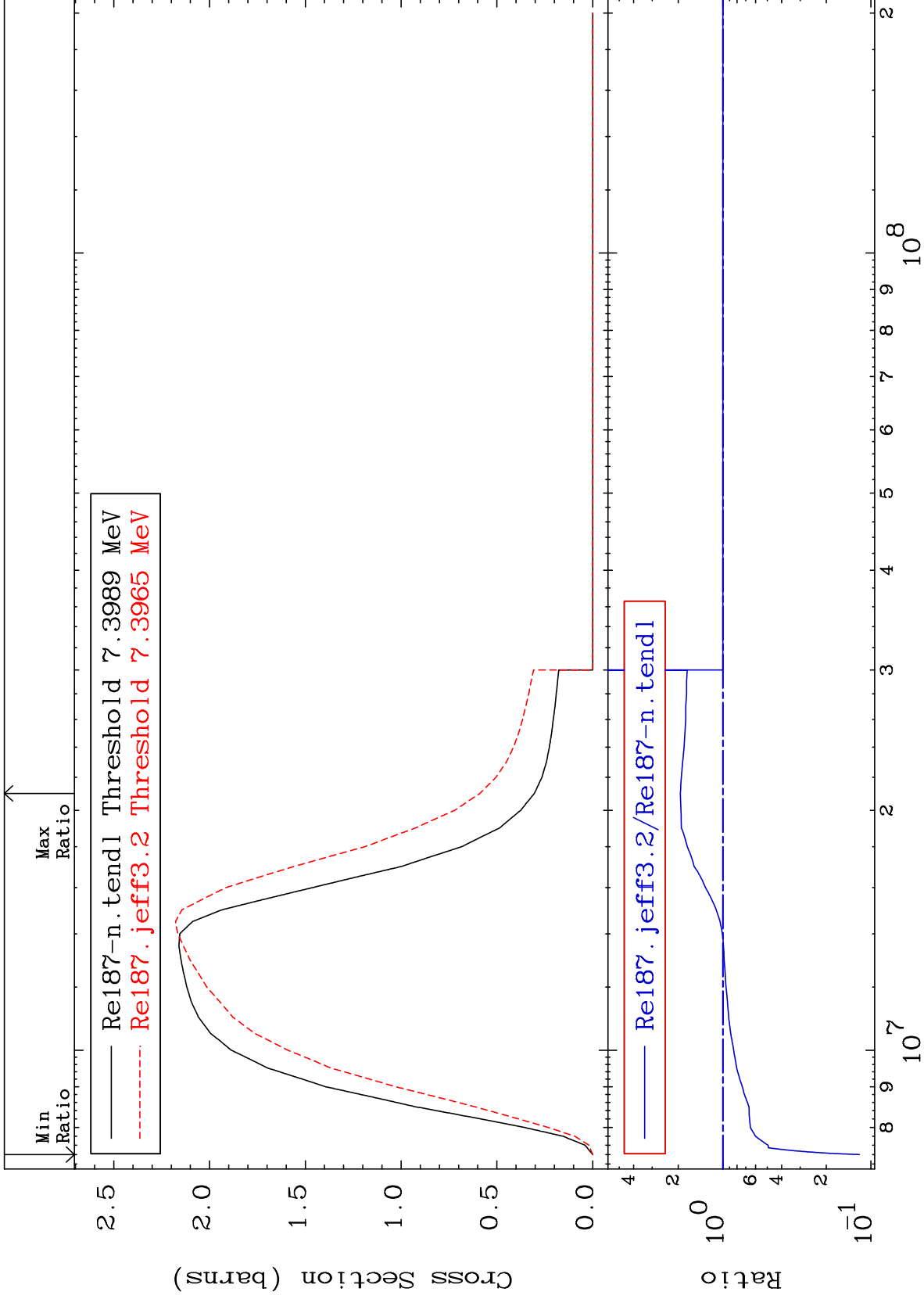
0.000 To 1059. %



MAT 7531

(n,2n)
Cross Section

⁷⁵Re-¹⁸⁷Re
-88.05 To 93.37 %



6

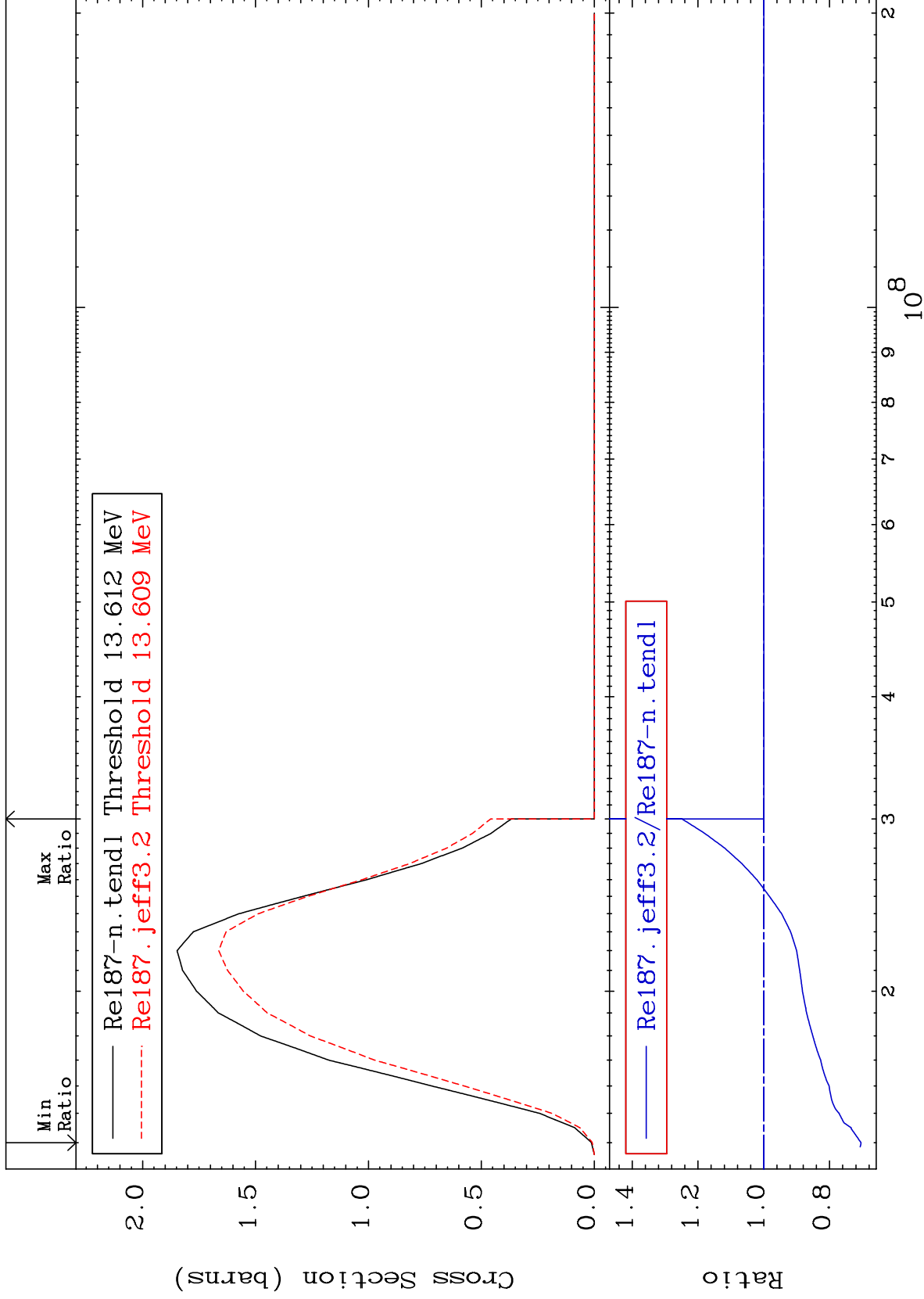
Incident Energy (eV)

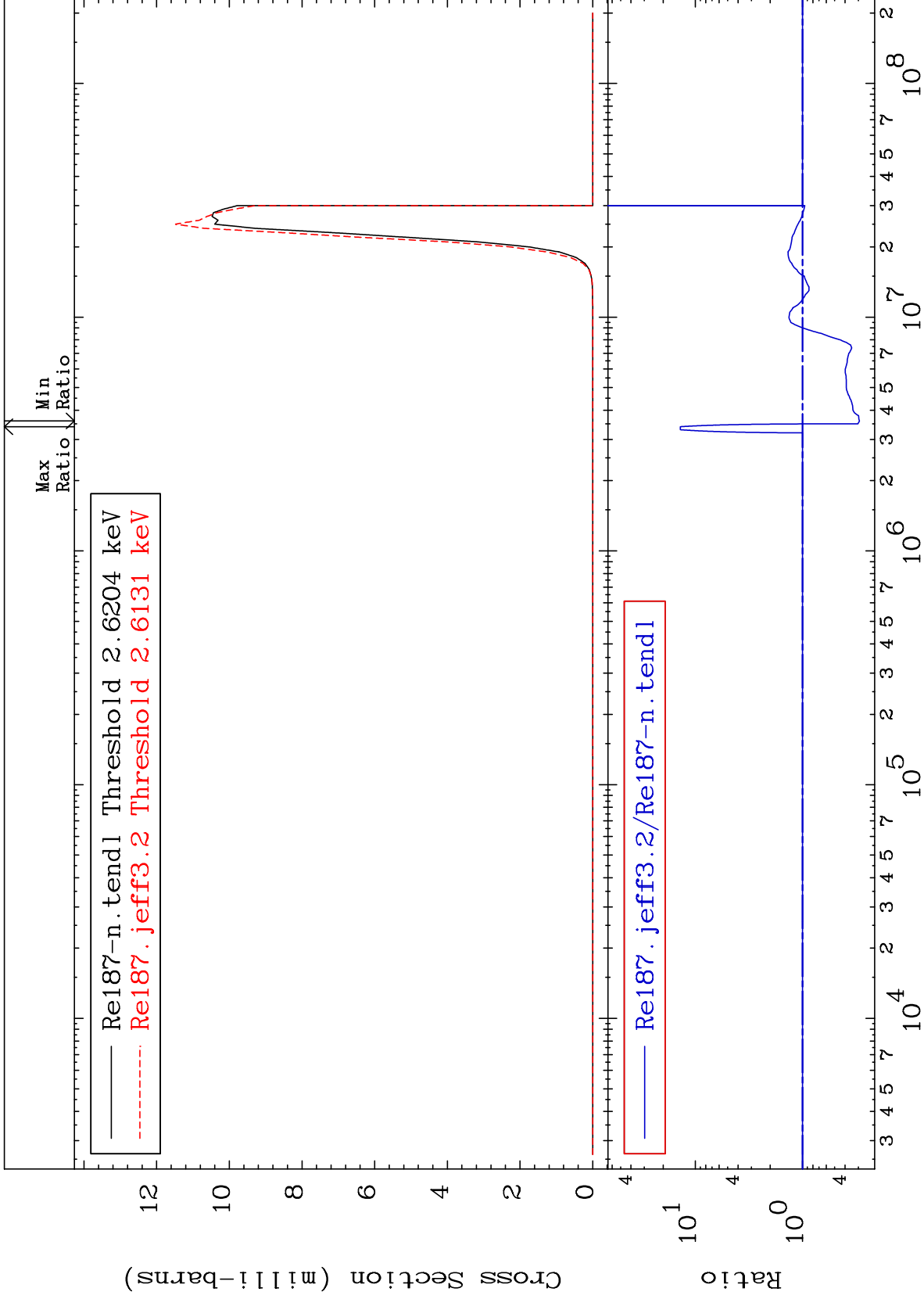
⁷⁵Re-¹⁸⁷Re

MAT 7531

(n,3n)
Cross Section

⁷⁵Re-¹⁸⁷Re
-29.55 To 24.89 %

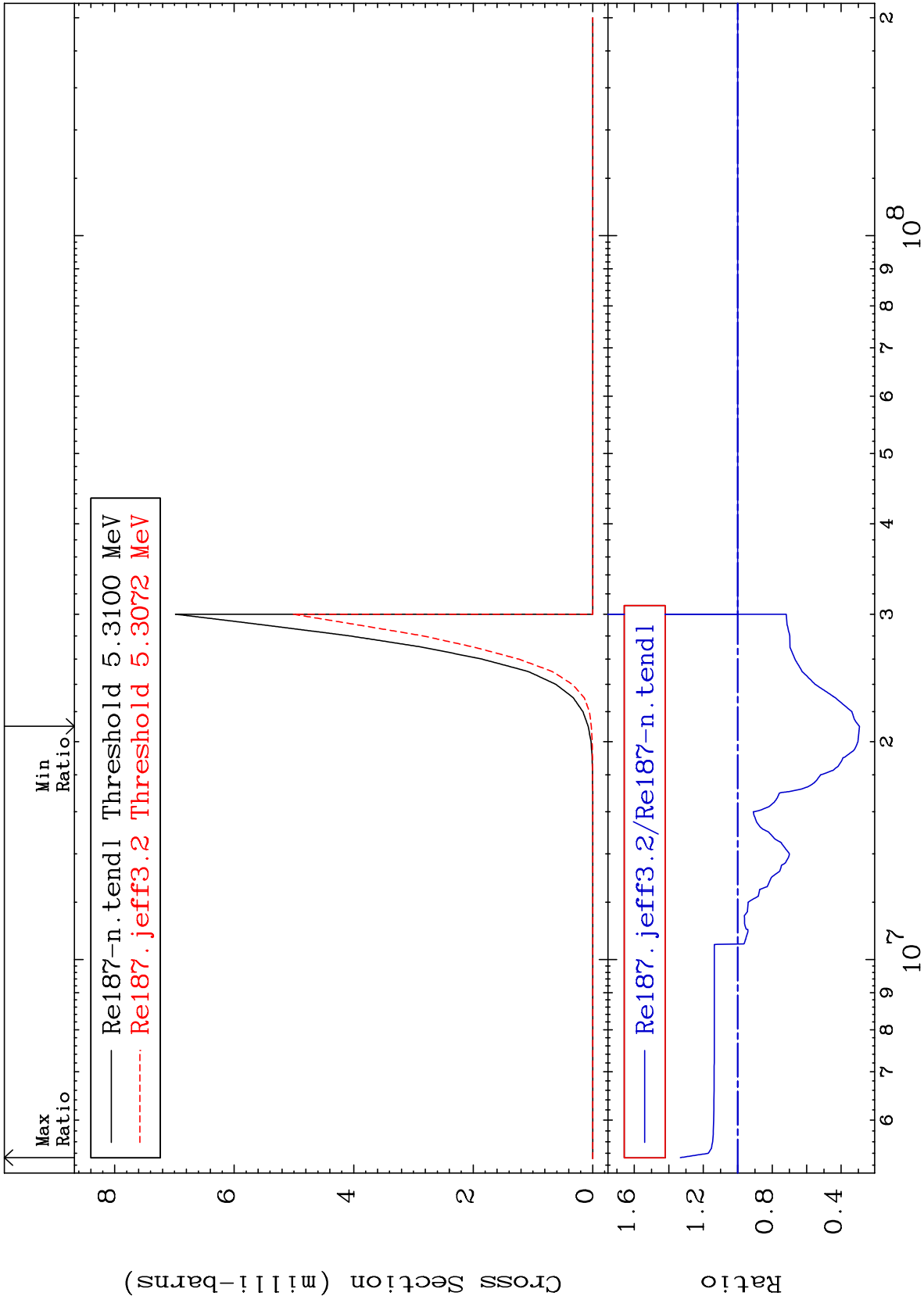




MAT 7531

(n,2n) α
Cross Section

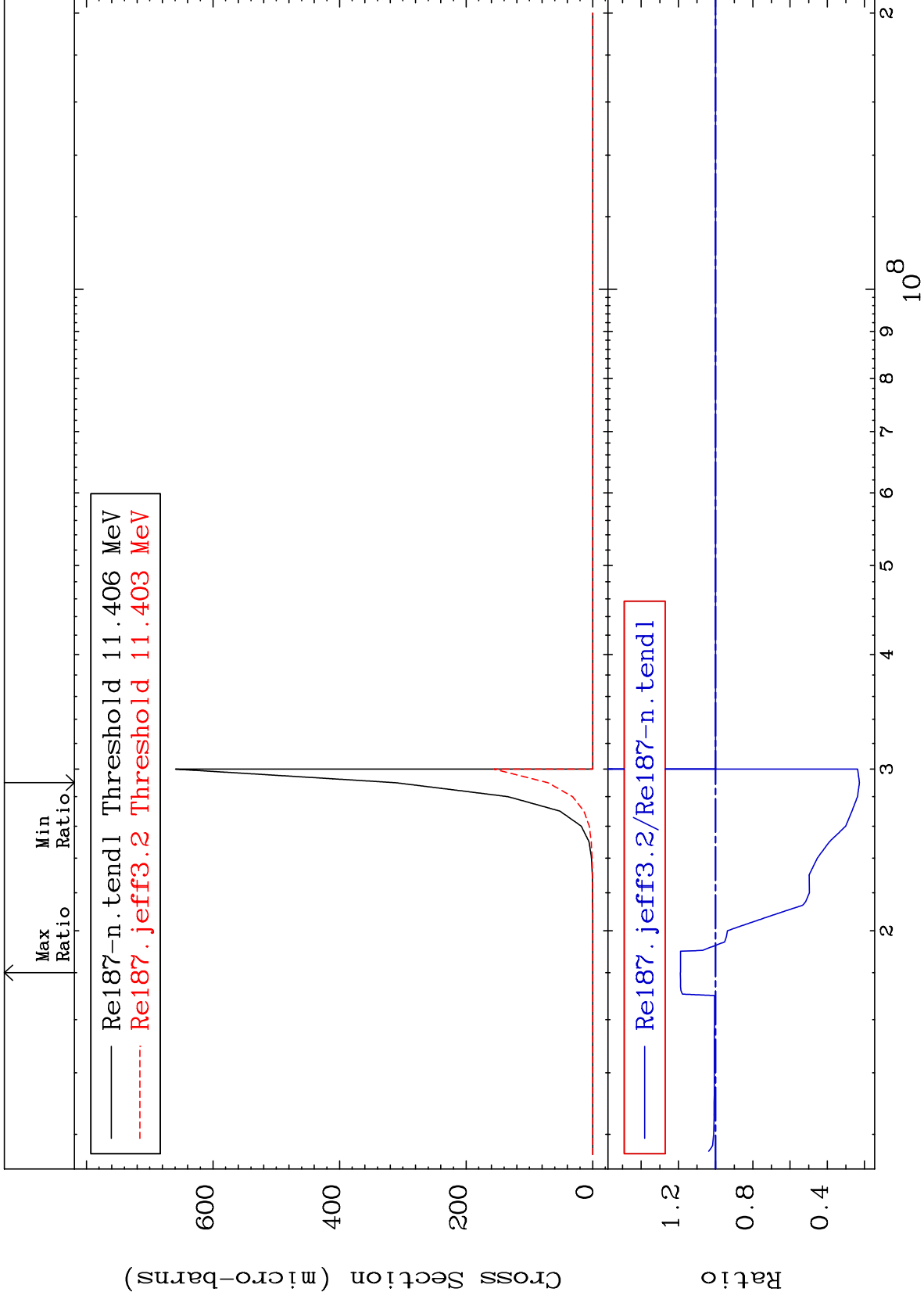
⁷⁵Re-¹⁸⁷Re
-70.60 To 33.26 %



MAT 7531

(n,3n) α
Cross Section

⁷⁵Re-¹⁸⁷Re
-77.27 To 18.96 %



10

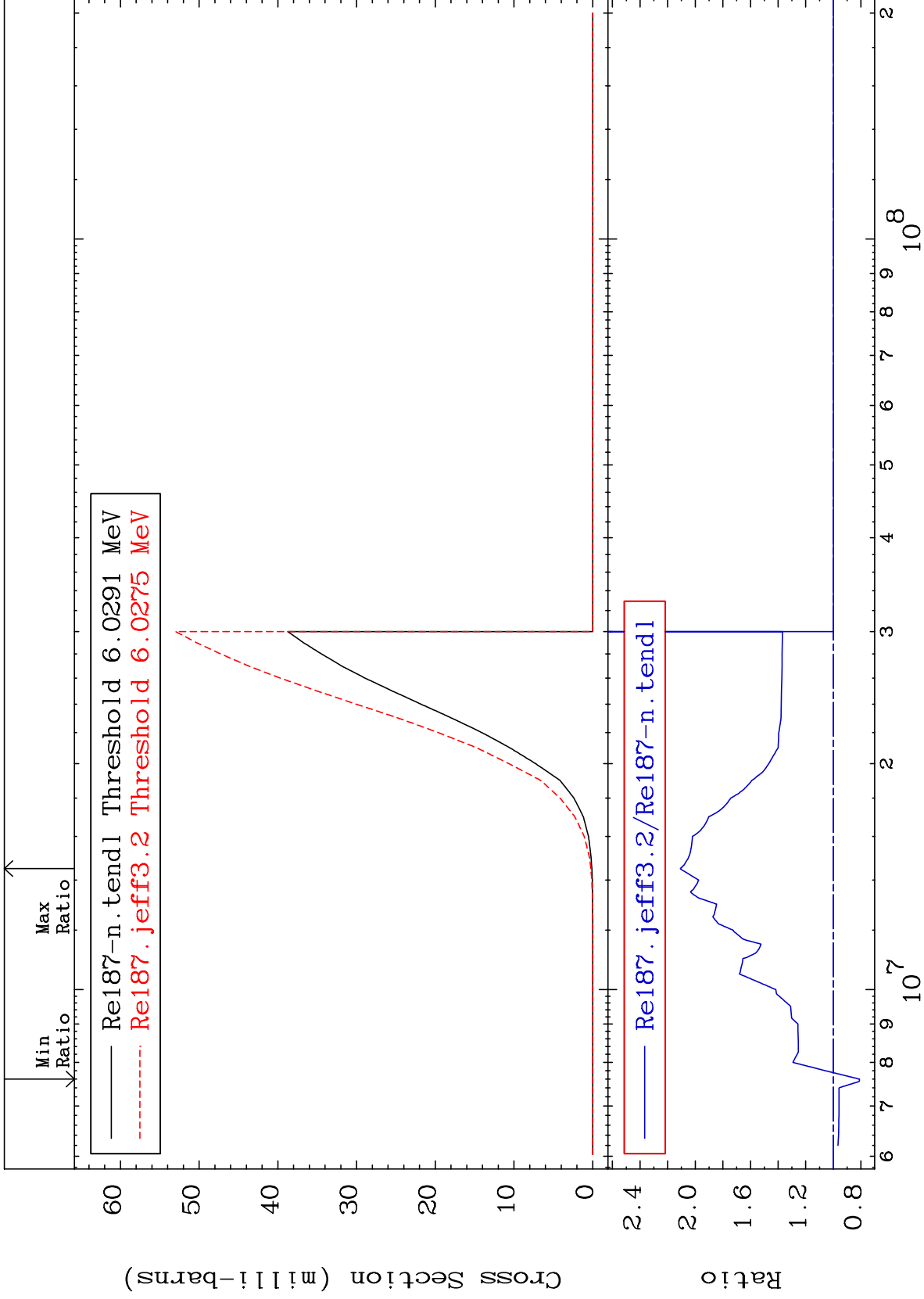
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

(n, n') p
Cross Section

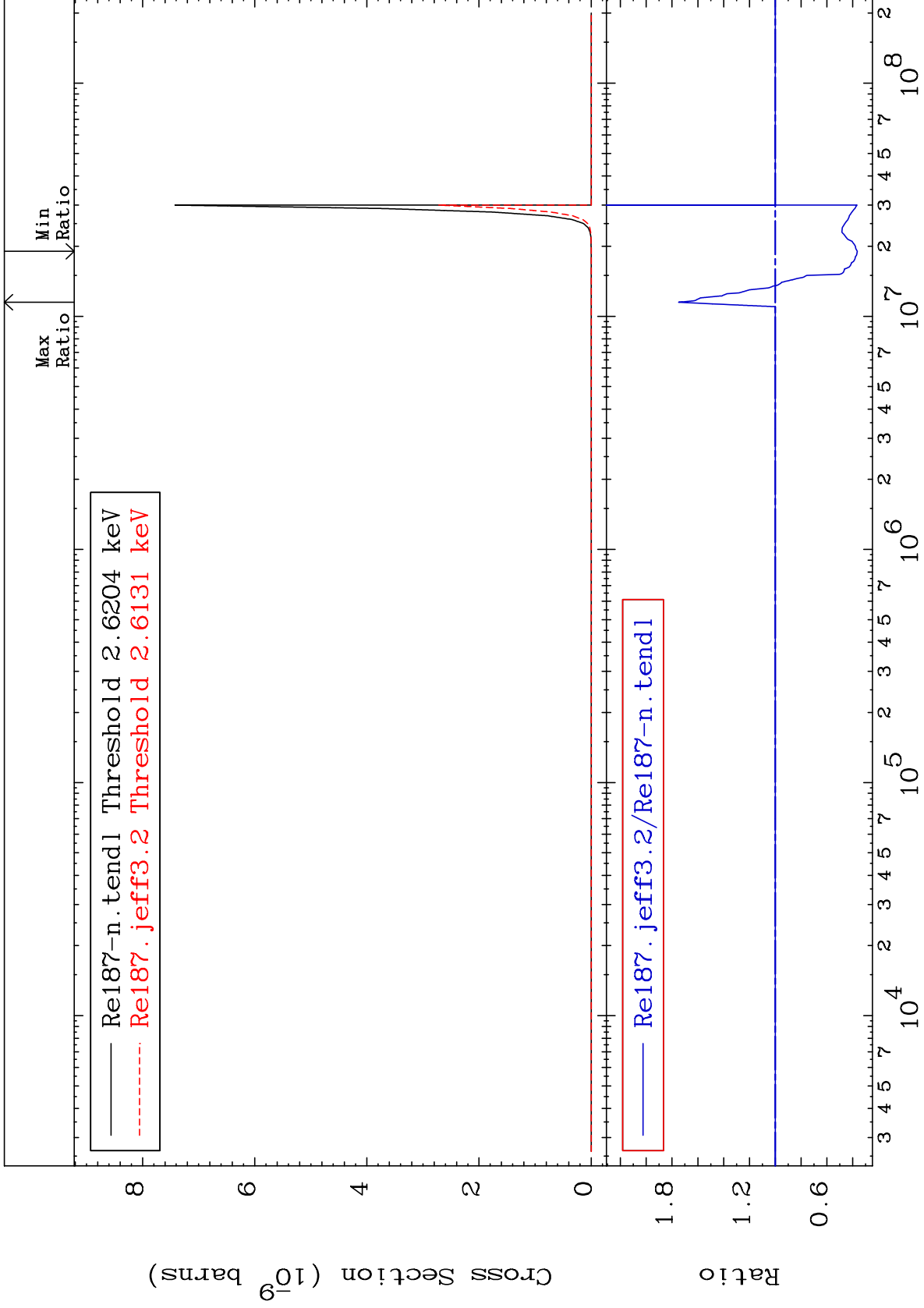
⁷⁵Re-¹⁸⁷Re
-18.92 To 110.8 %



MAT 7531

(n, n') 2 α
Cross Section

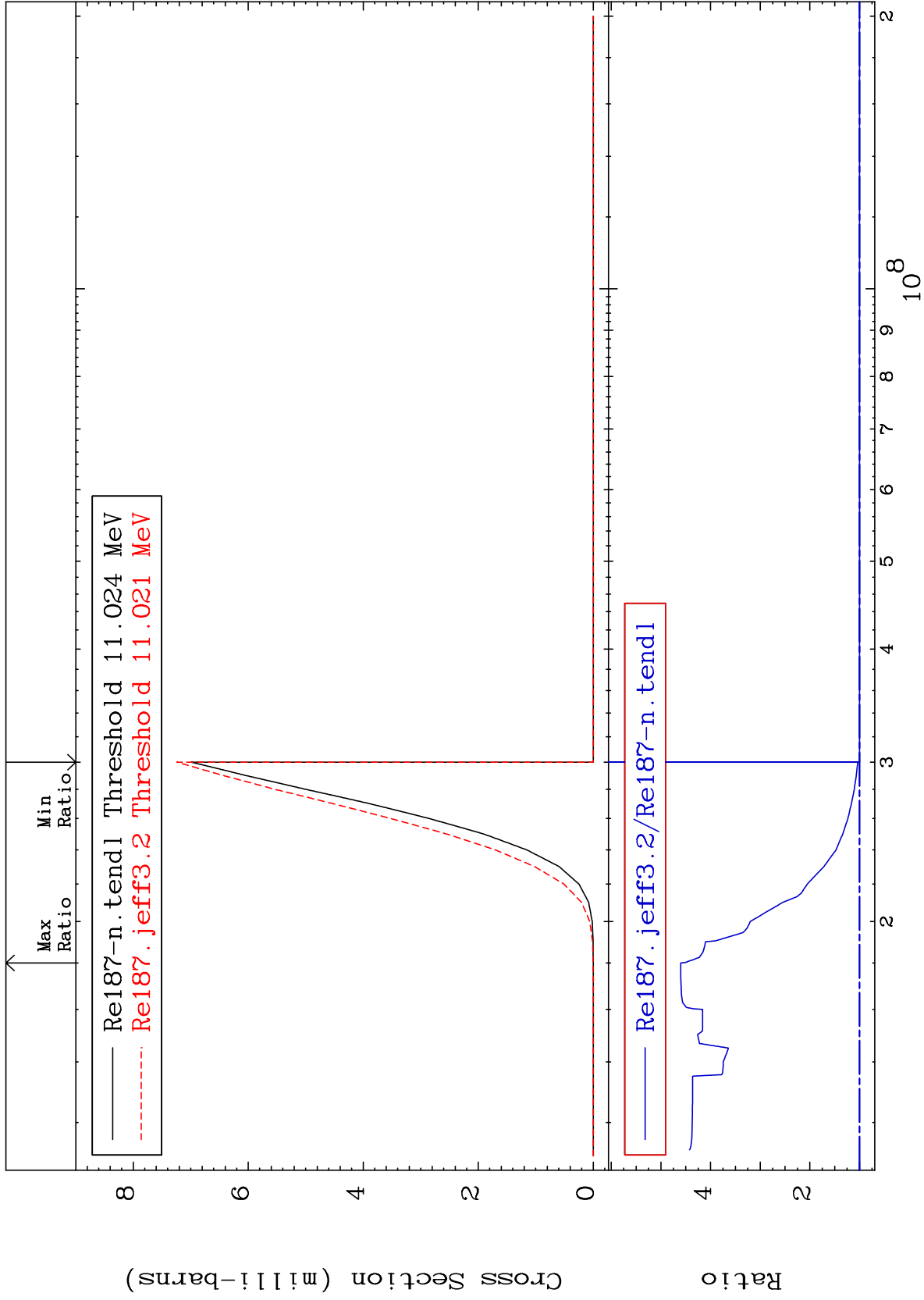
⁷⁵Re-¹⁸⁷Re
-63.48 To 74.87 %



MAT 7531

(n,n') d
Cross Section

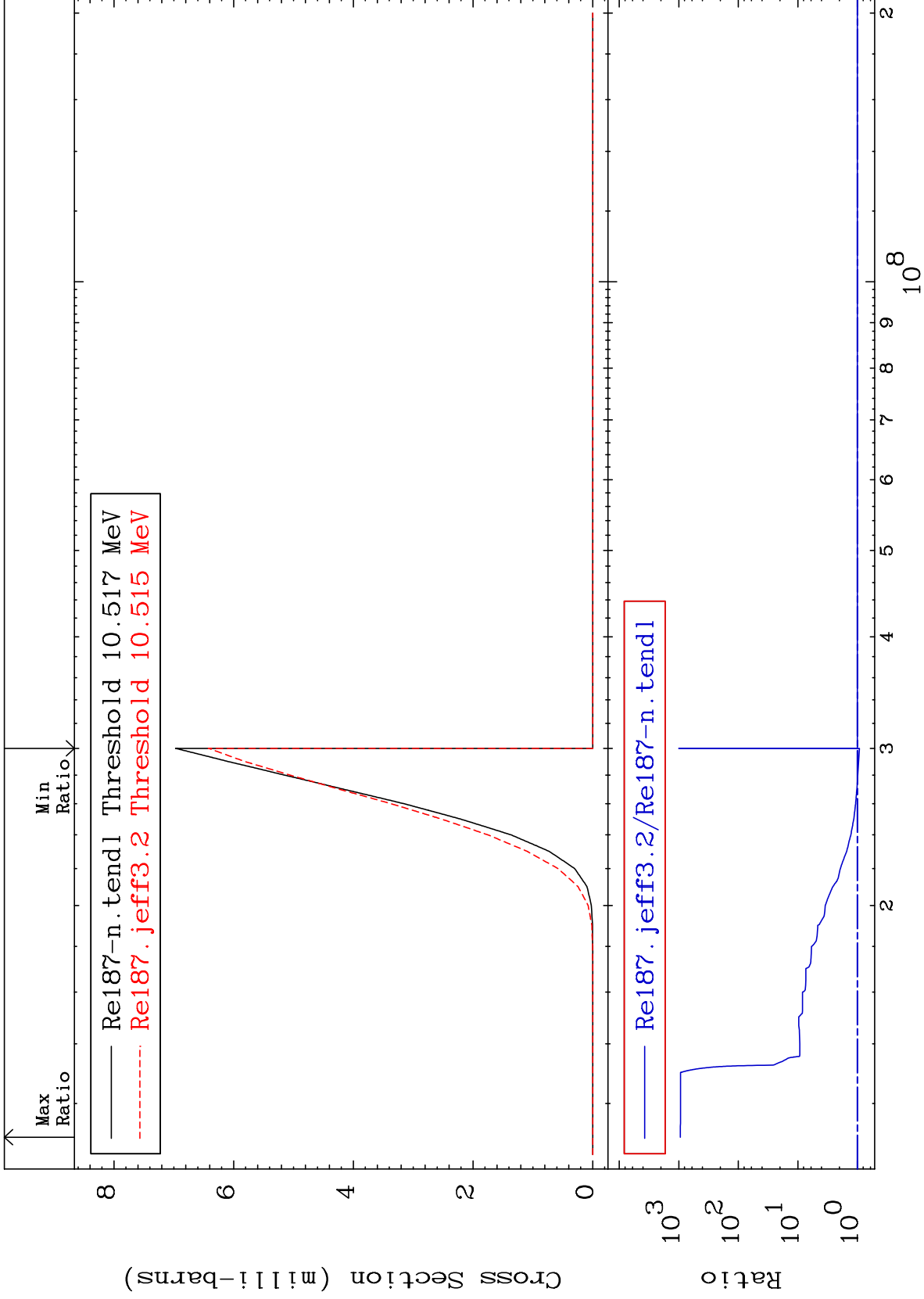
⁷⁵Re-¹⁸⁷Re
To 360.0 %



MAT 7531

(n,n') t
Cross Section

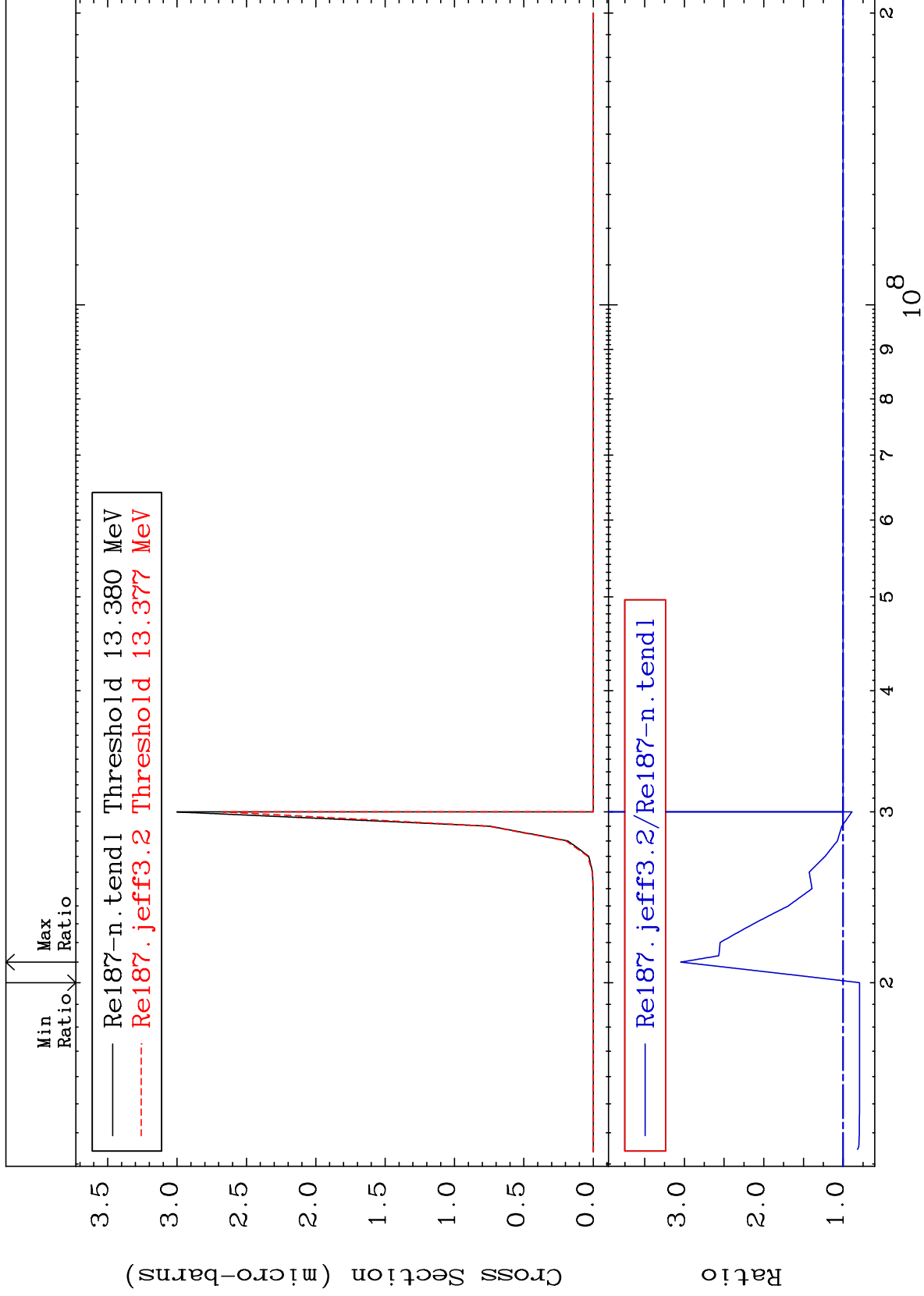
⁷⁵Re-¹⁸⁷Re
-7.878 To 9999. %



MAT 7531

(n, n') He-3
Cross Section

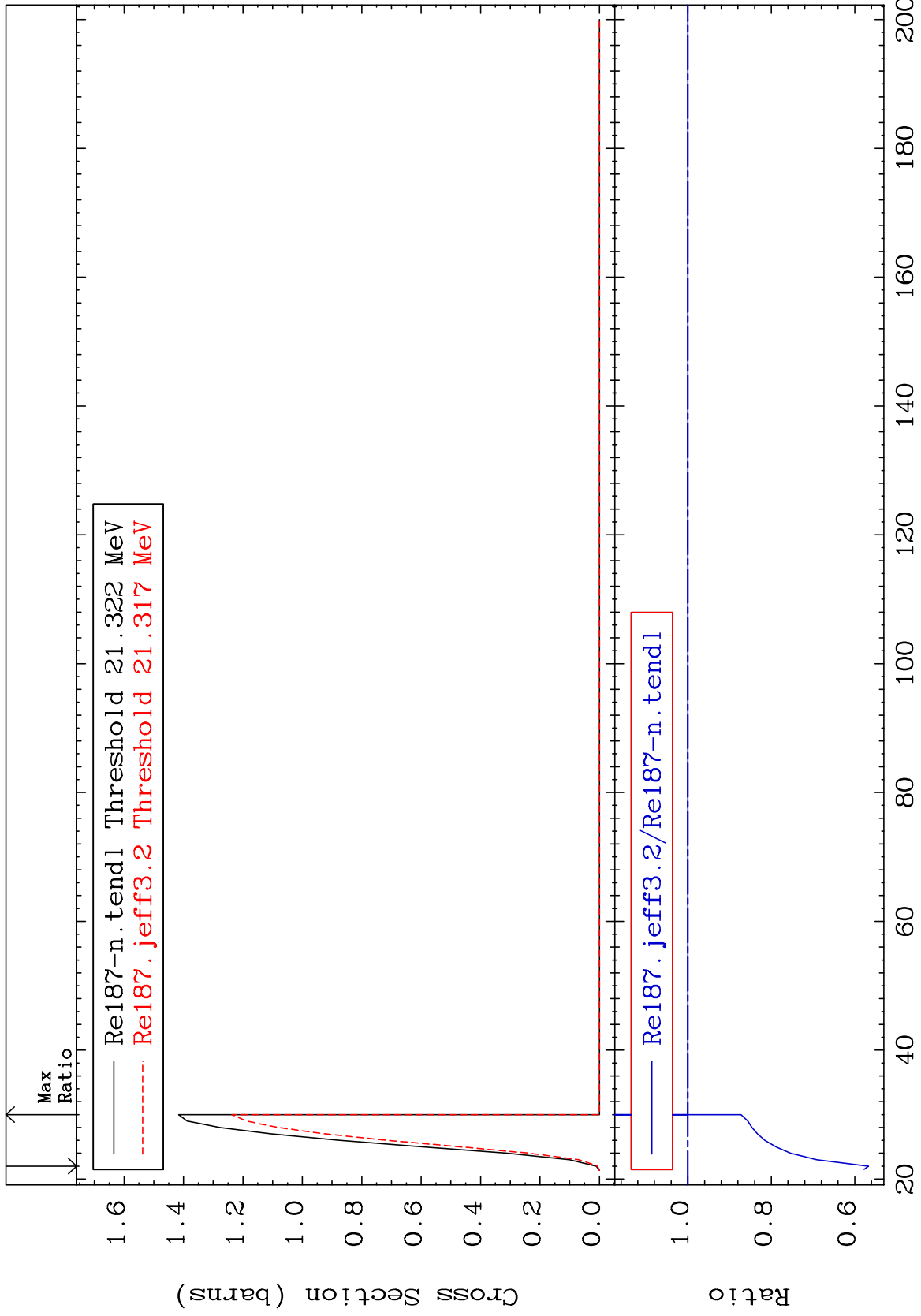
⁷⁵Re-¹⁸⁷Re
-20.64 To 204.6 %



MAT 7531

(n,4n)
Cross Section

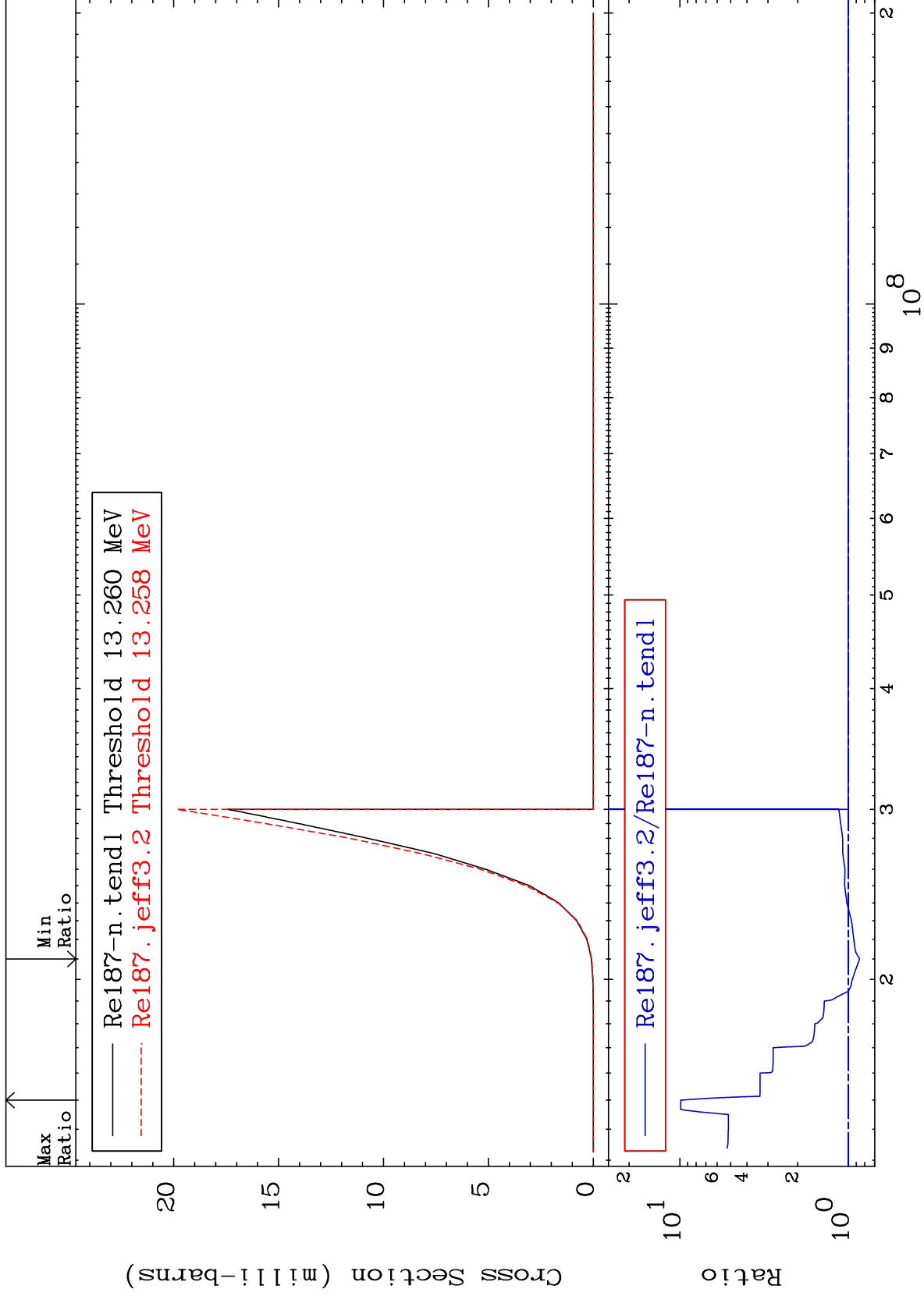
⁷⁵Re-¹⁸⁷Re
-43.29 To 0.000 %



MAT 7531

(n,2n) p
Cross Section

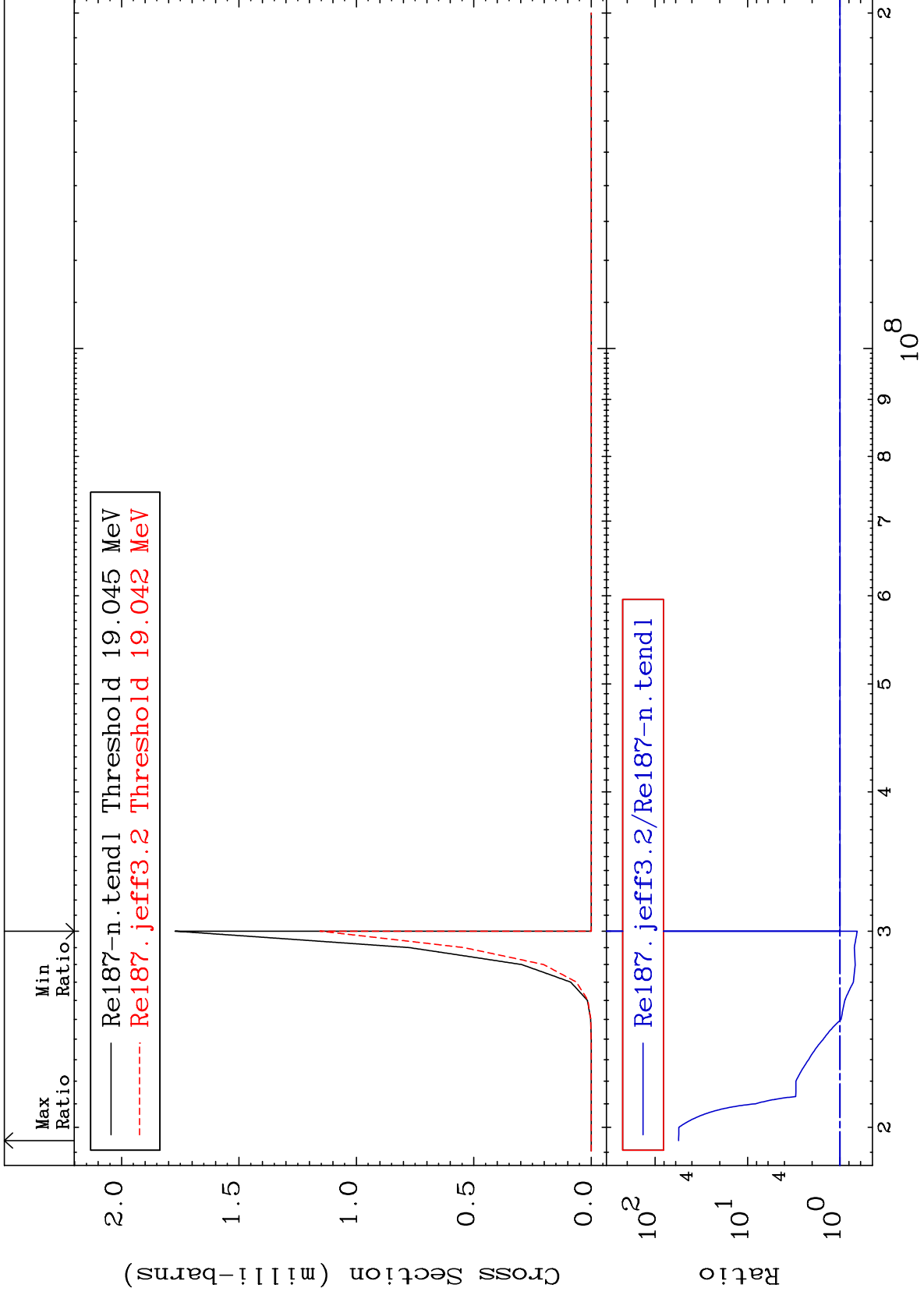
⁷⁵Re-¹⁸⁷Re
-14.13 To 887.7 %



MAT 7531

(n,3n) p
Cross Section

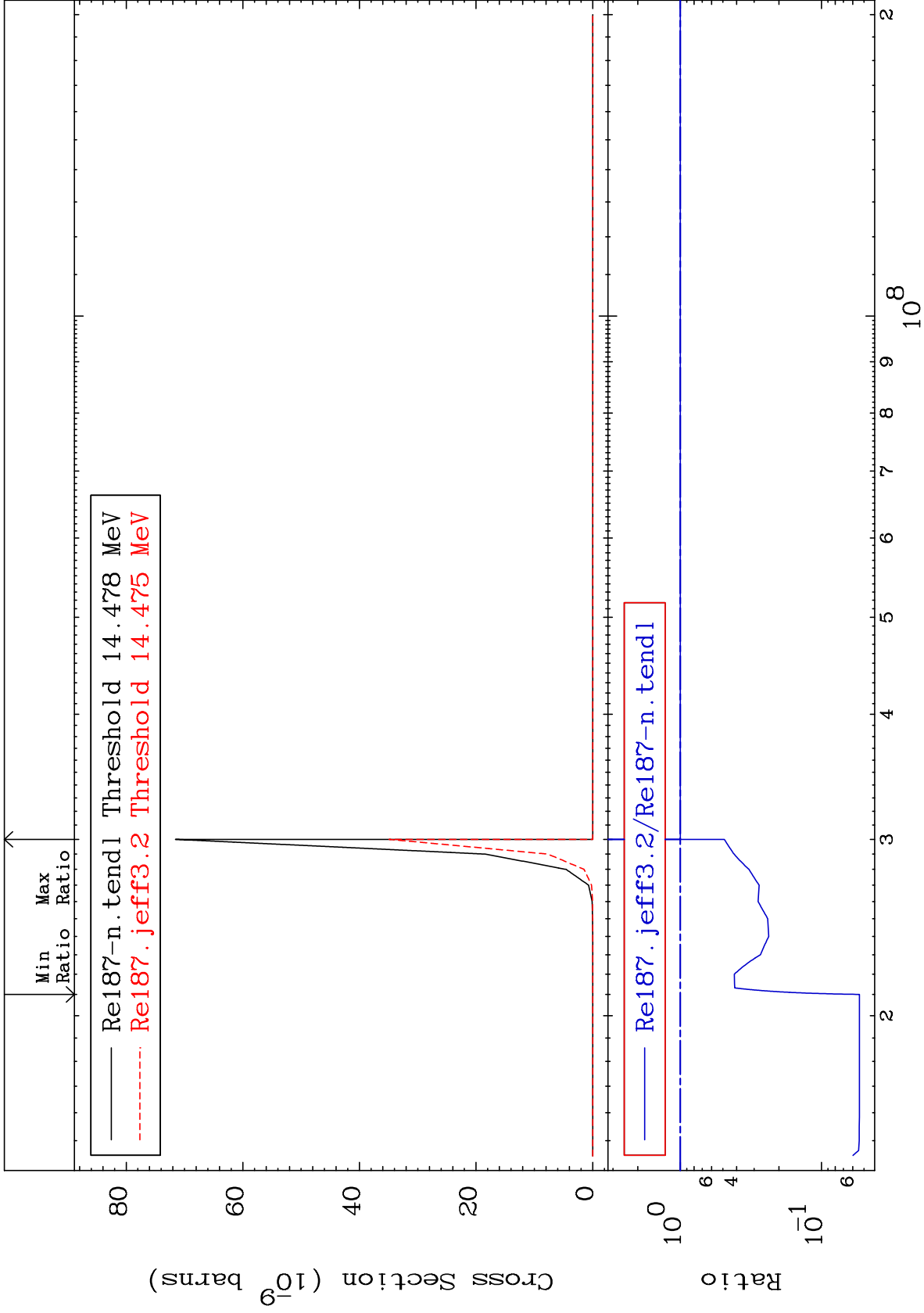
⁷⁵Re-¹⁸⁷Re
-34.87 To 5469. %



MAT 7531

(n,2n) p
Cross Section

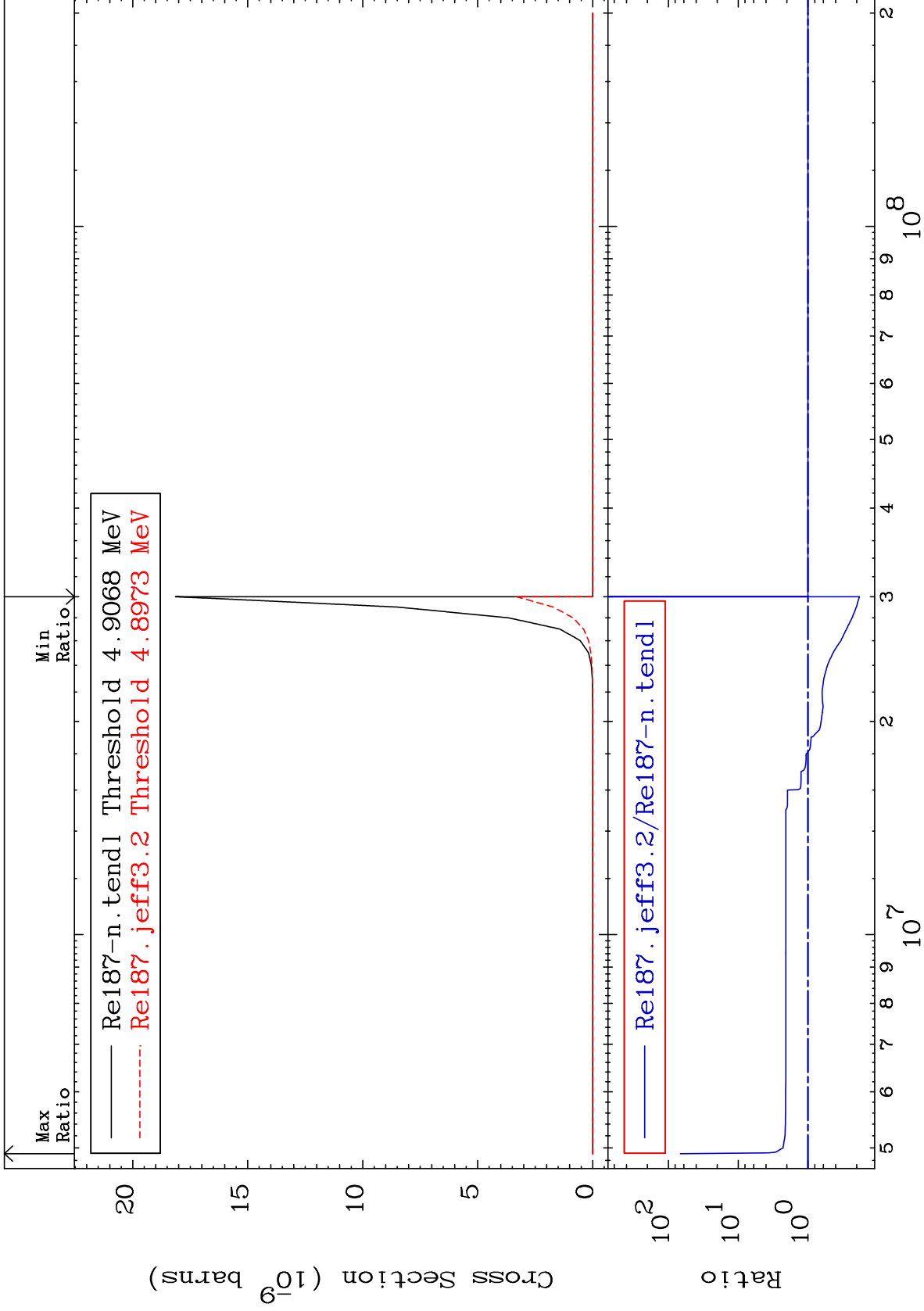
⁷⁵Re-¹⁸⁷Re
-94.61 To 0.000 %



MAT 7531

(n,n') p α
Cross Section

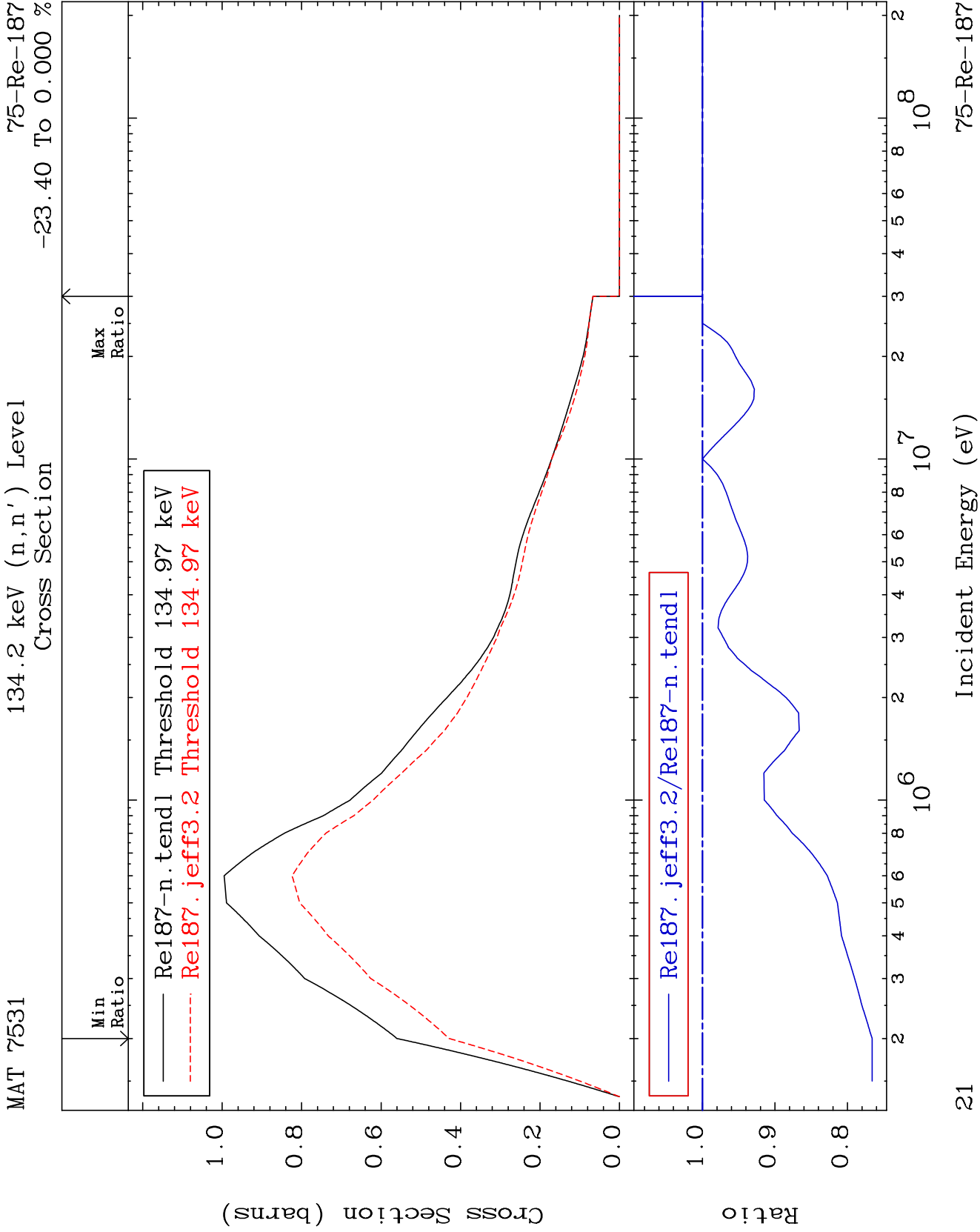
⁷⁵Re-¹⁸⁷Re
-81.71 To 6647. %



20

Incident Energy (eV)

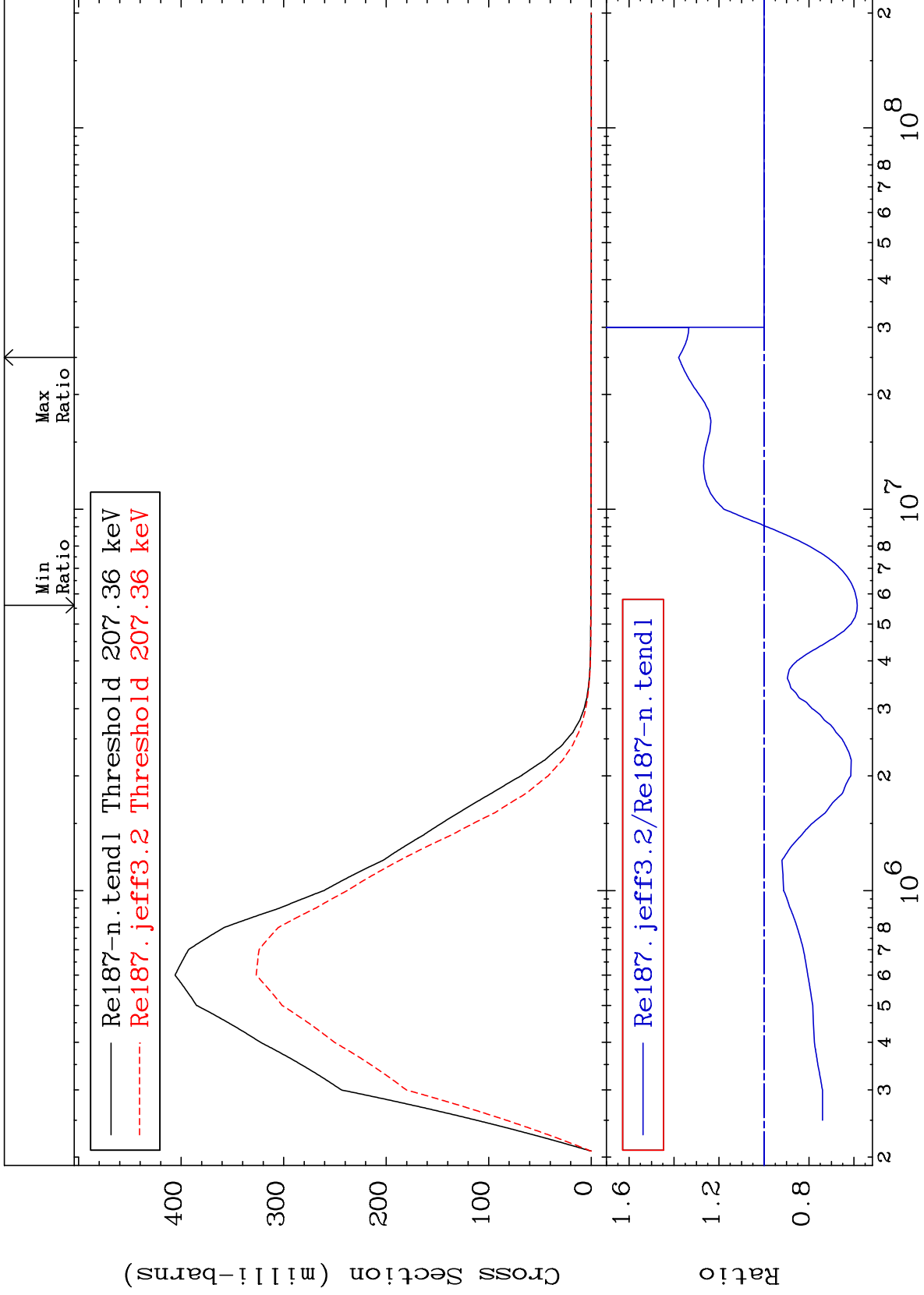
⁷⁵Re-¹⁸⁷Re



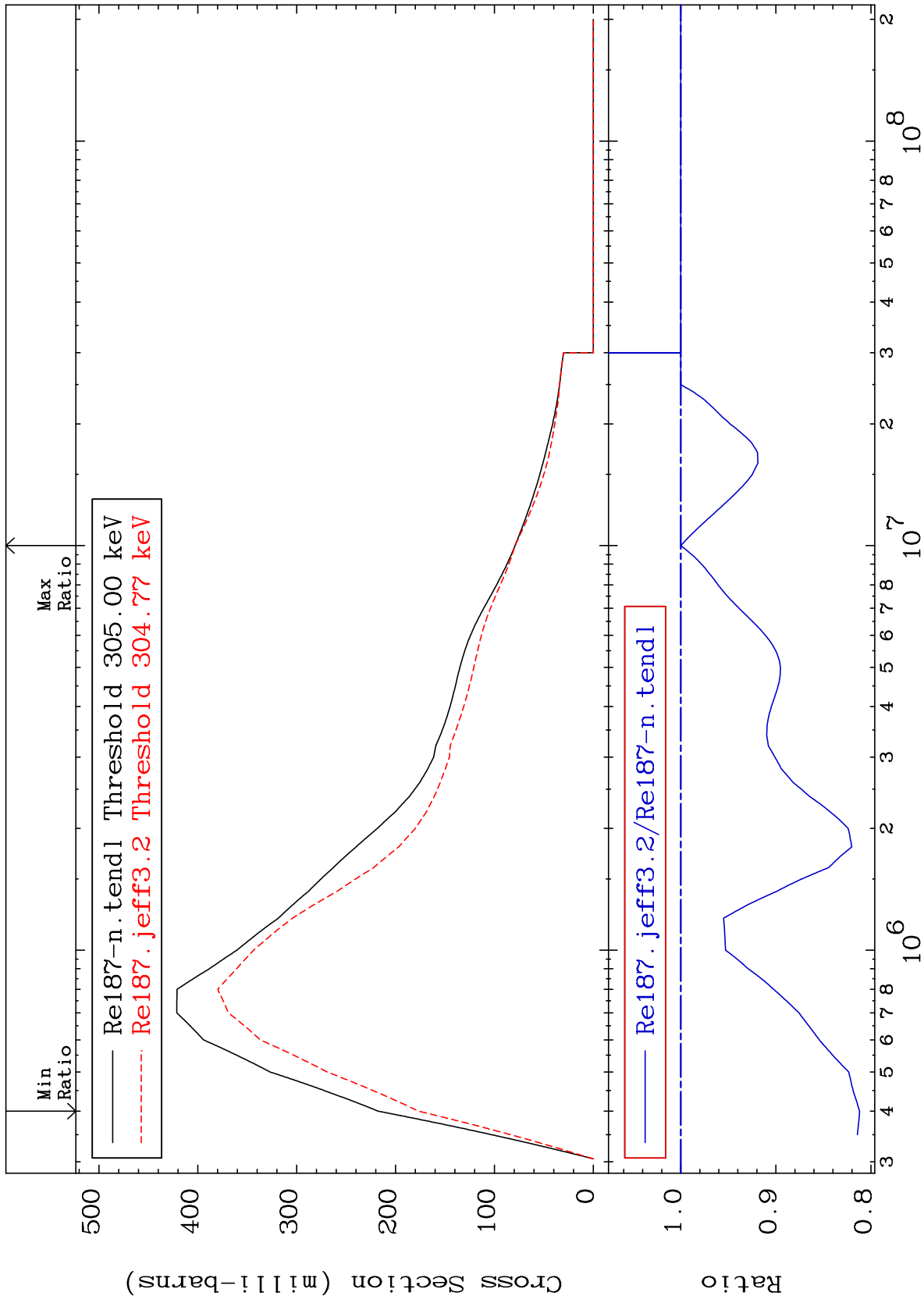
MAT 7531

206.2 keV (n,n') Level
Cross Section

75-Re-187
-41.45 To 37.95 %



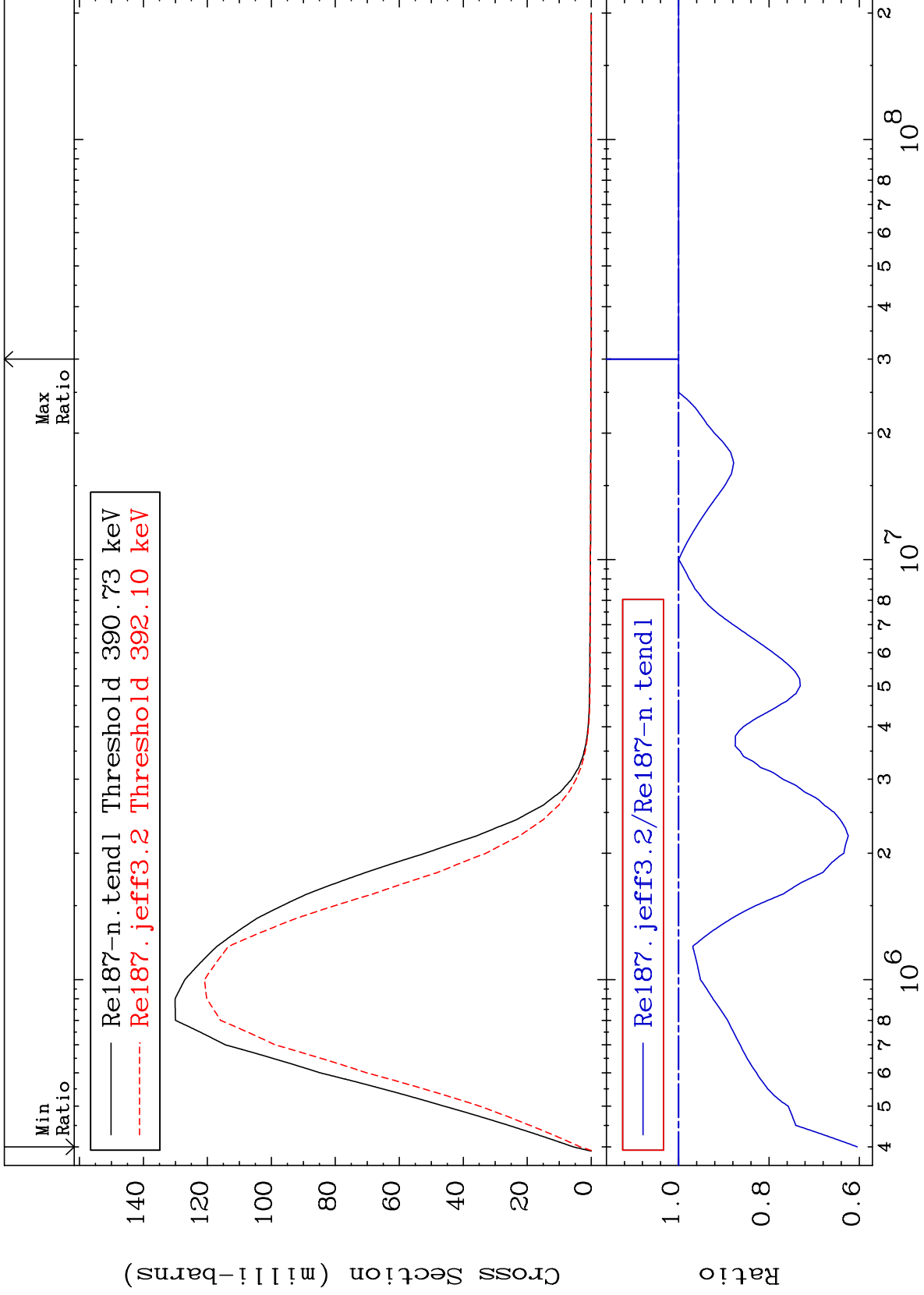
MAT 7531 303.4 keV (n,n') Level ⁷⁵Re-¹⁸⁷Re
 Cross Section -18.80 To 0.000 %



MAT 7531

388.6 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-39.54 To 0.000 %



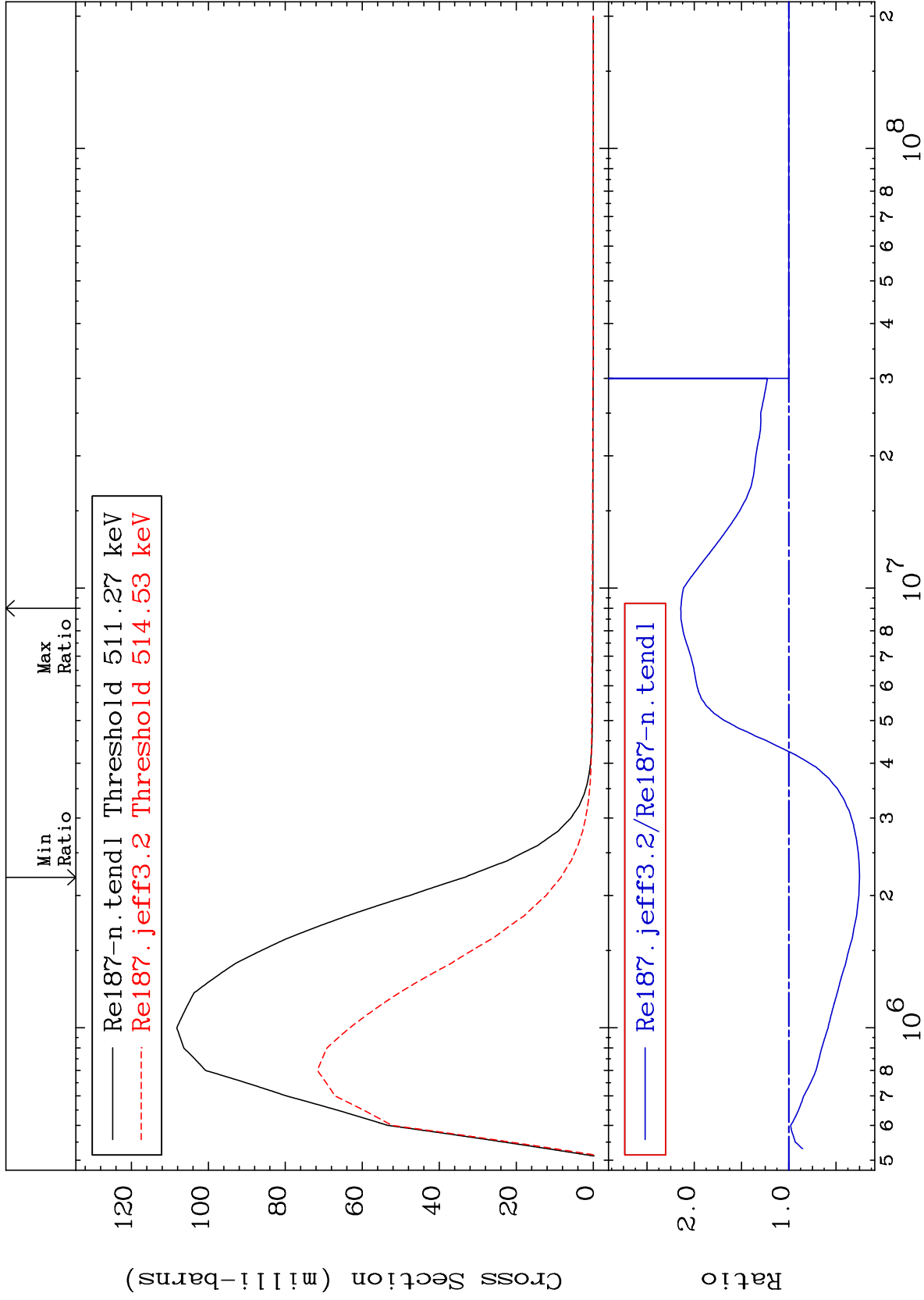
MAT 7531

508.5 keV (n,n') Level

⁷⁵Re-¹⁸⁷

-74.92 To 114.4 %

Cross Section



25

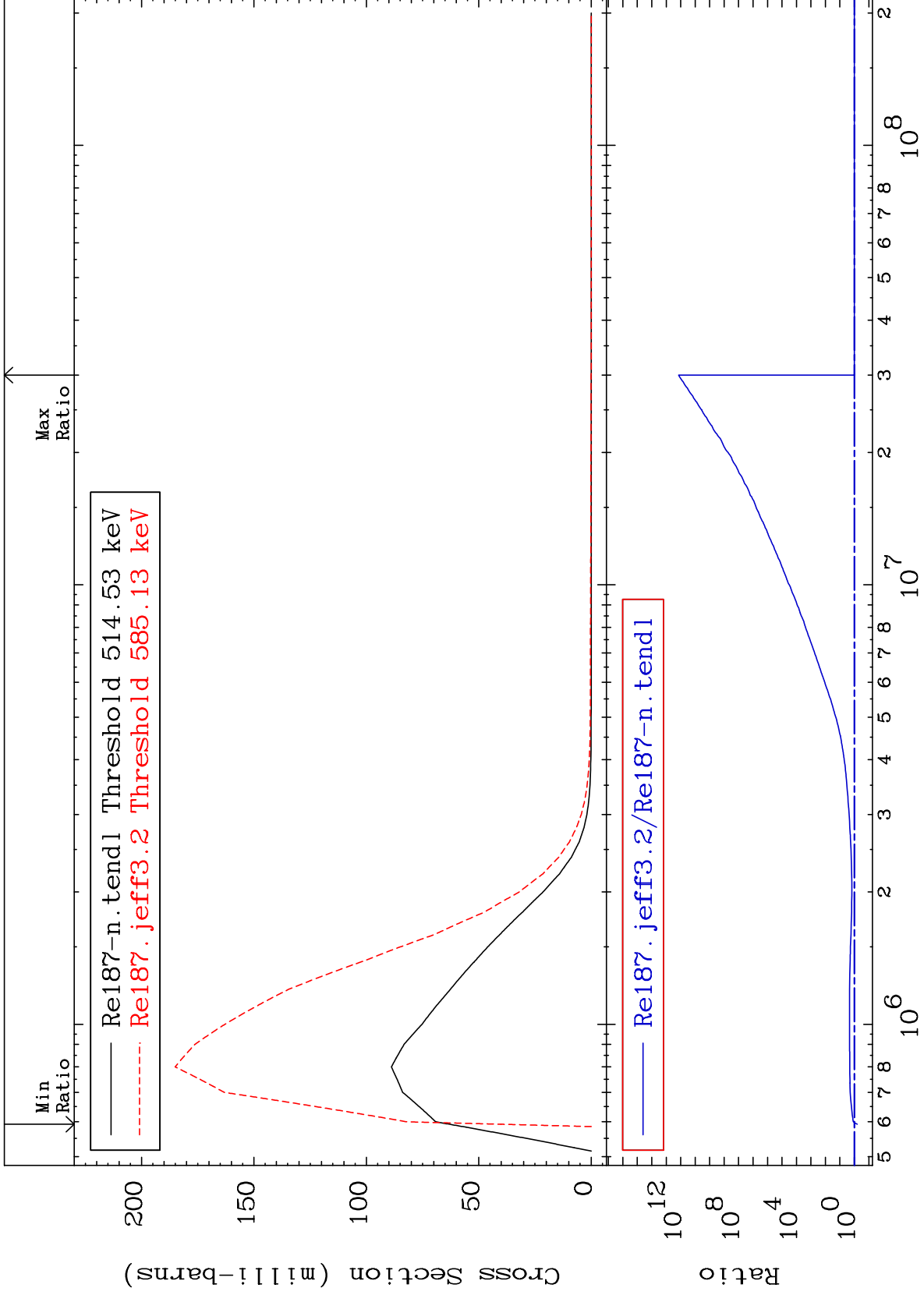
Incident Energy (eV)

⁷⁵Re-¹⁸⁷

MAT 7531

511.8 keV (n,n') Level
Cross Section

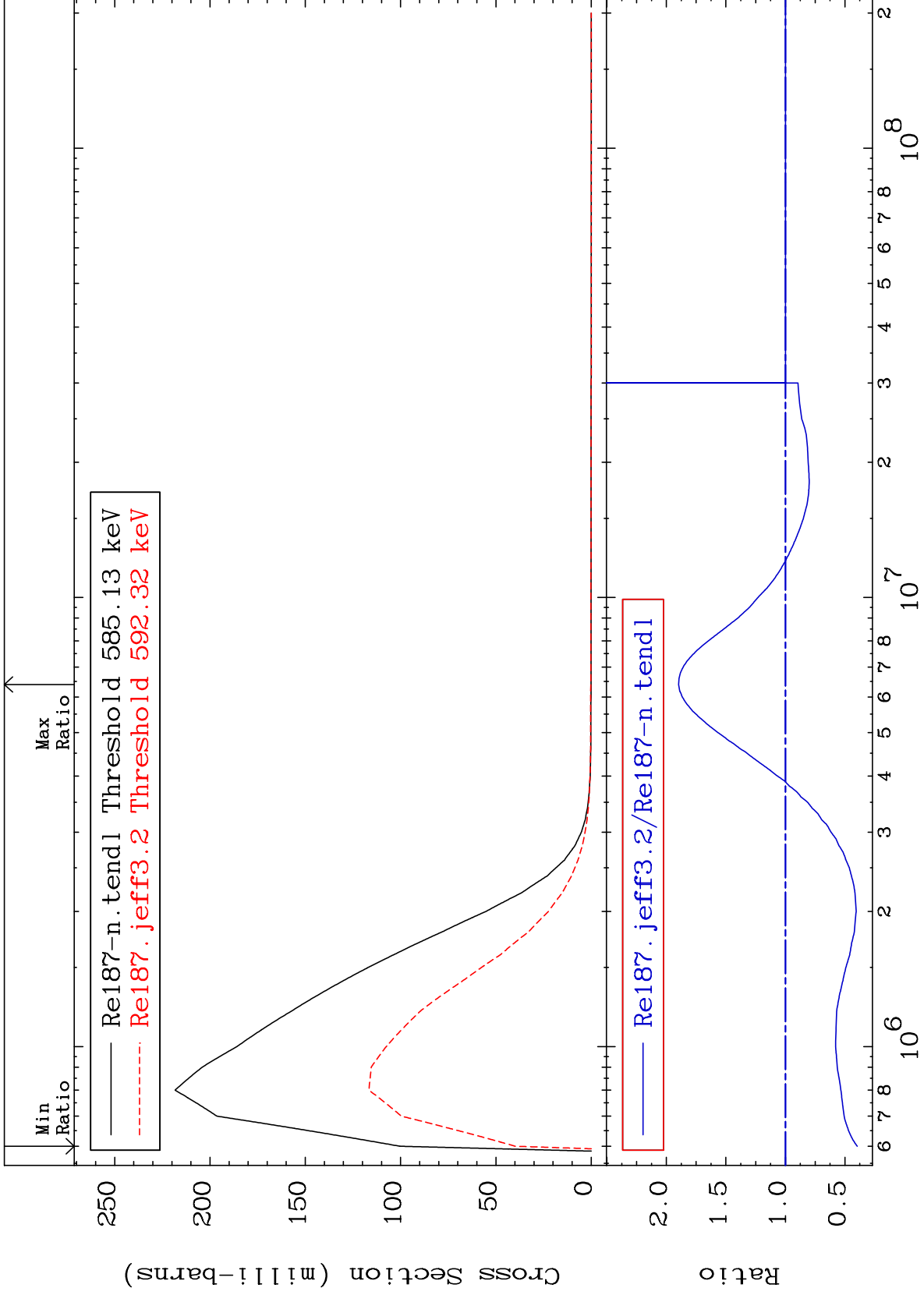
75-Re-187
-37.08 To 9999. %



MAT 7531

582.0 keV (n,n') Level
Cross Section

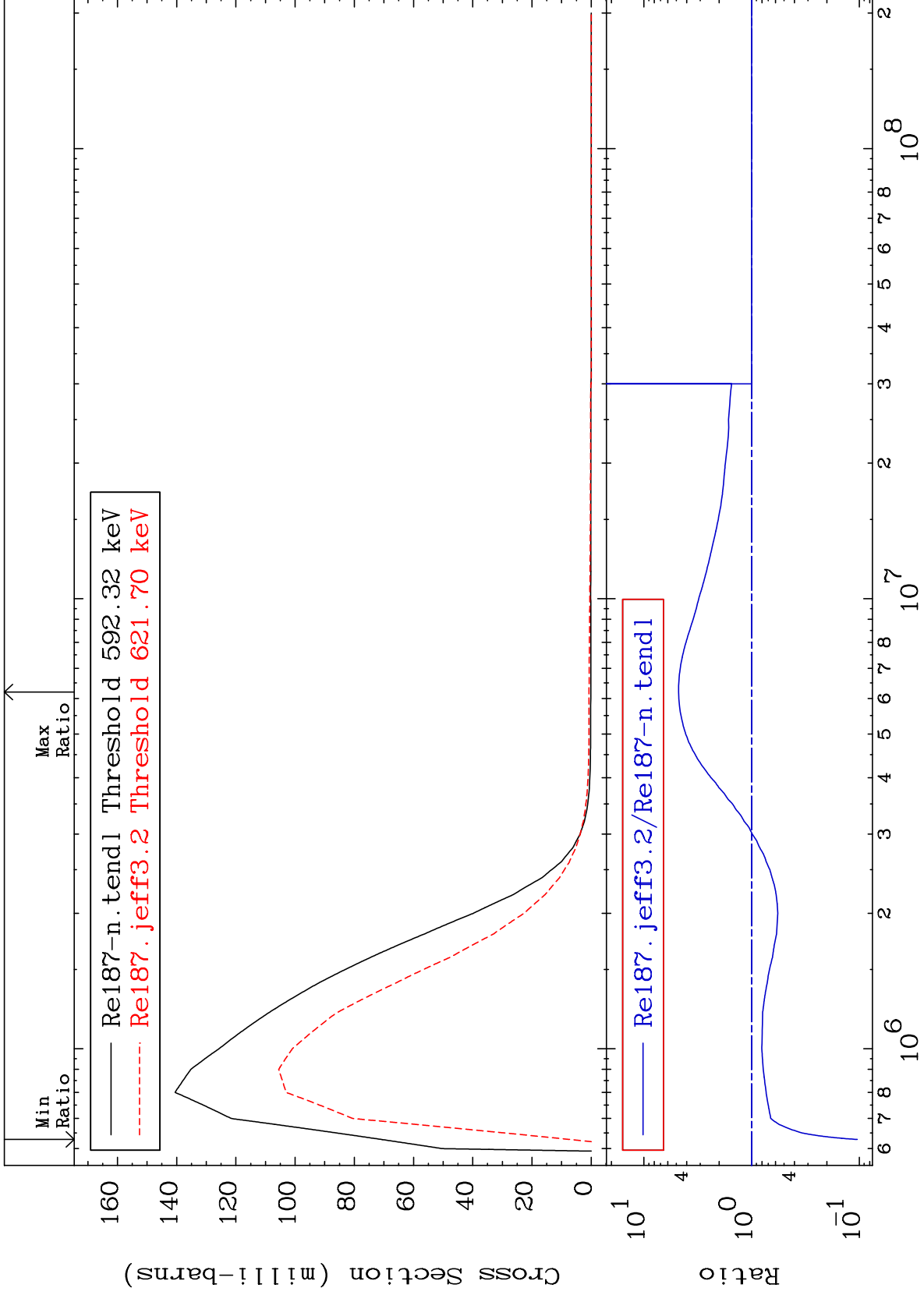
⁷⁵Re-¹⁸⁷Re
-60.33 To 89.69 %



MAT 7531

589.1 keV (n,n') Level
Cross Section

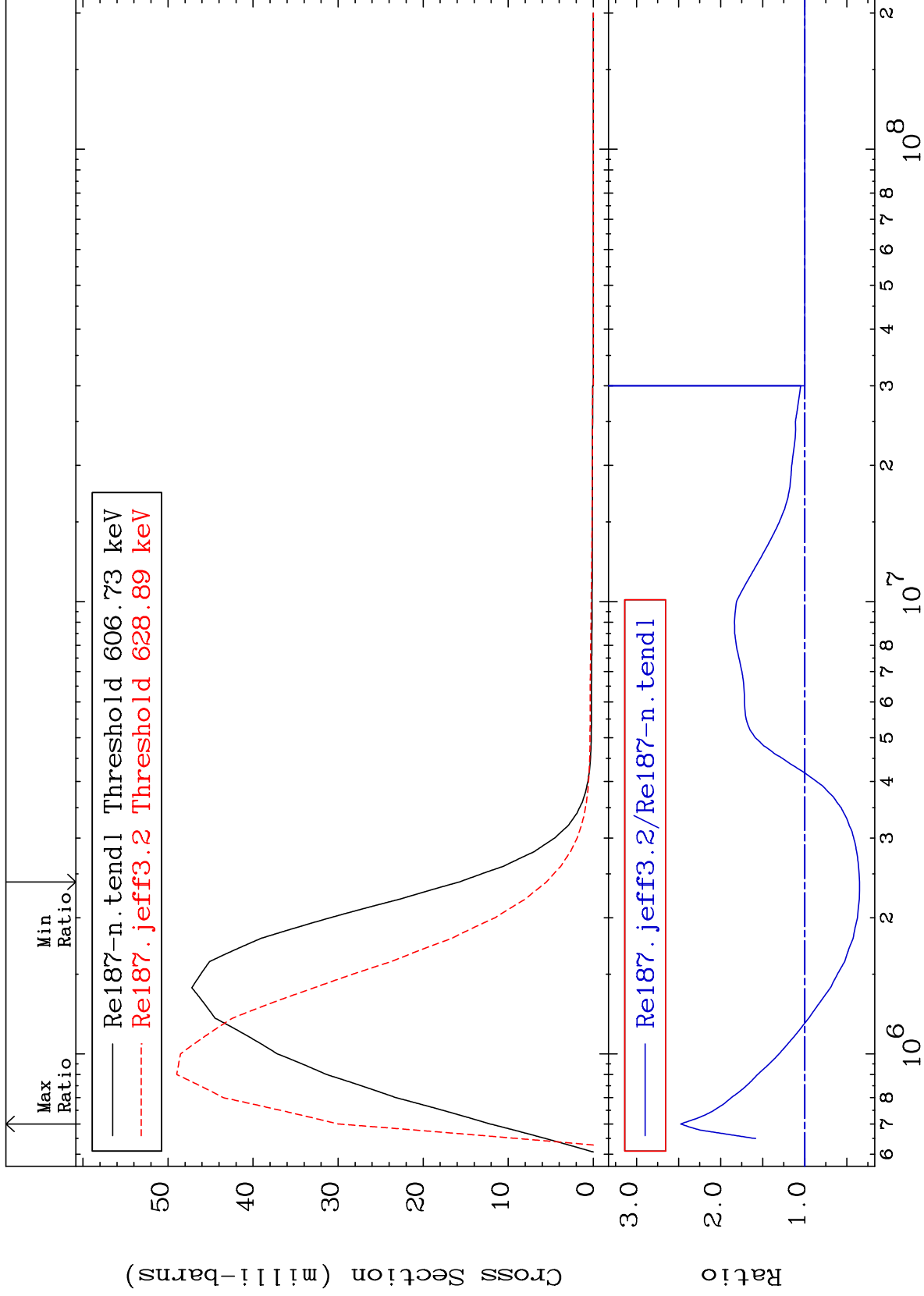
⁷⁵Re-¹⁸⁷
-89.56 To 375.3 %



MAT 7531

603.5 keV (n,n') Level
Cross Section

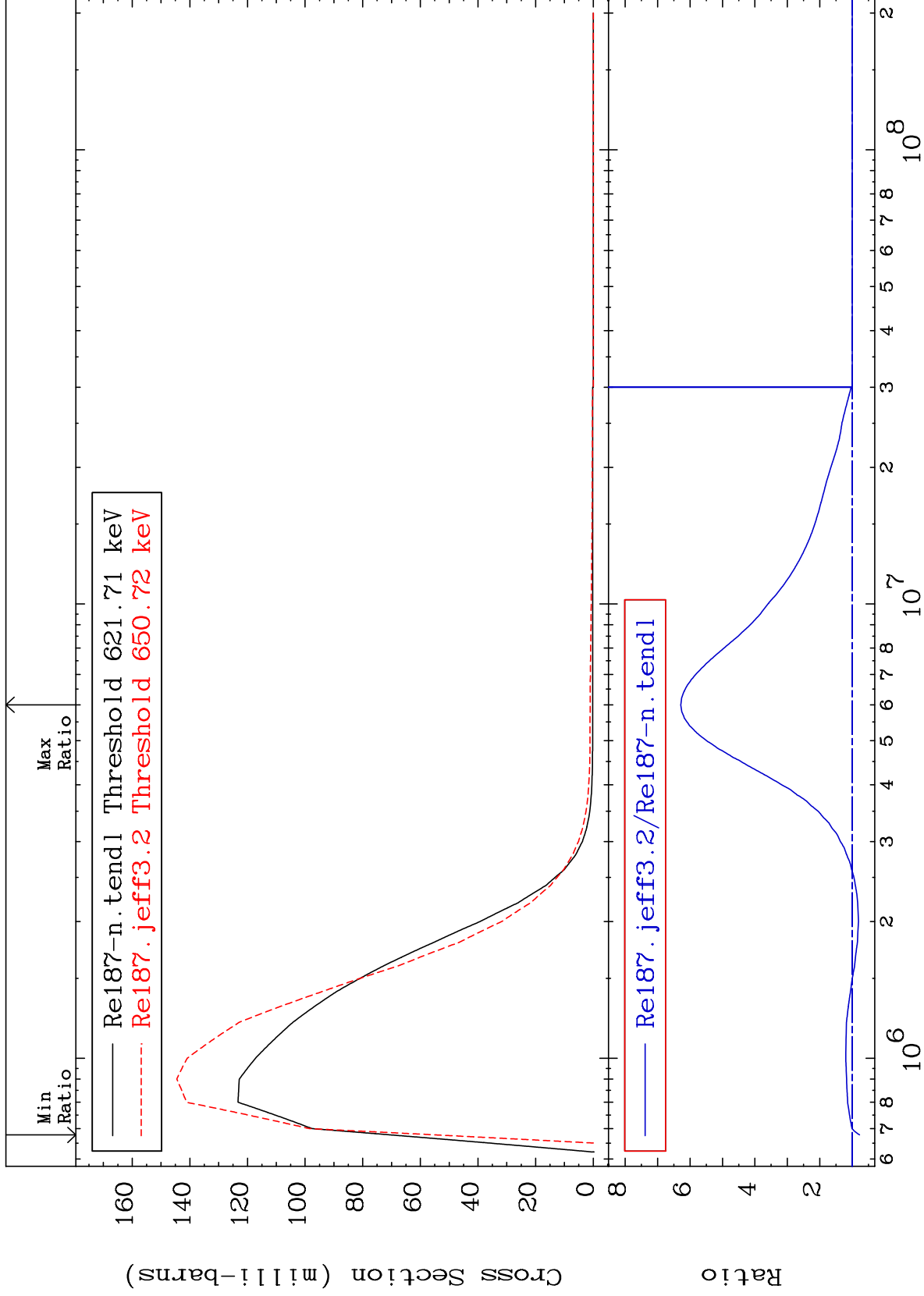
⁷⁵Re-¹⁸⁷
-65.05 To 147.6 %



MAT 7531

618.4 keV (n,n') Level
Cross Section

75-Re-187
-22.36 To 528.5 %

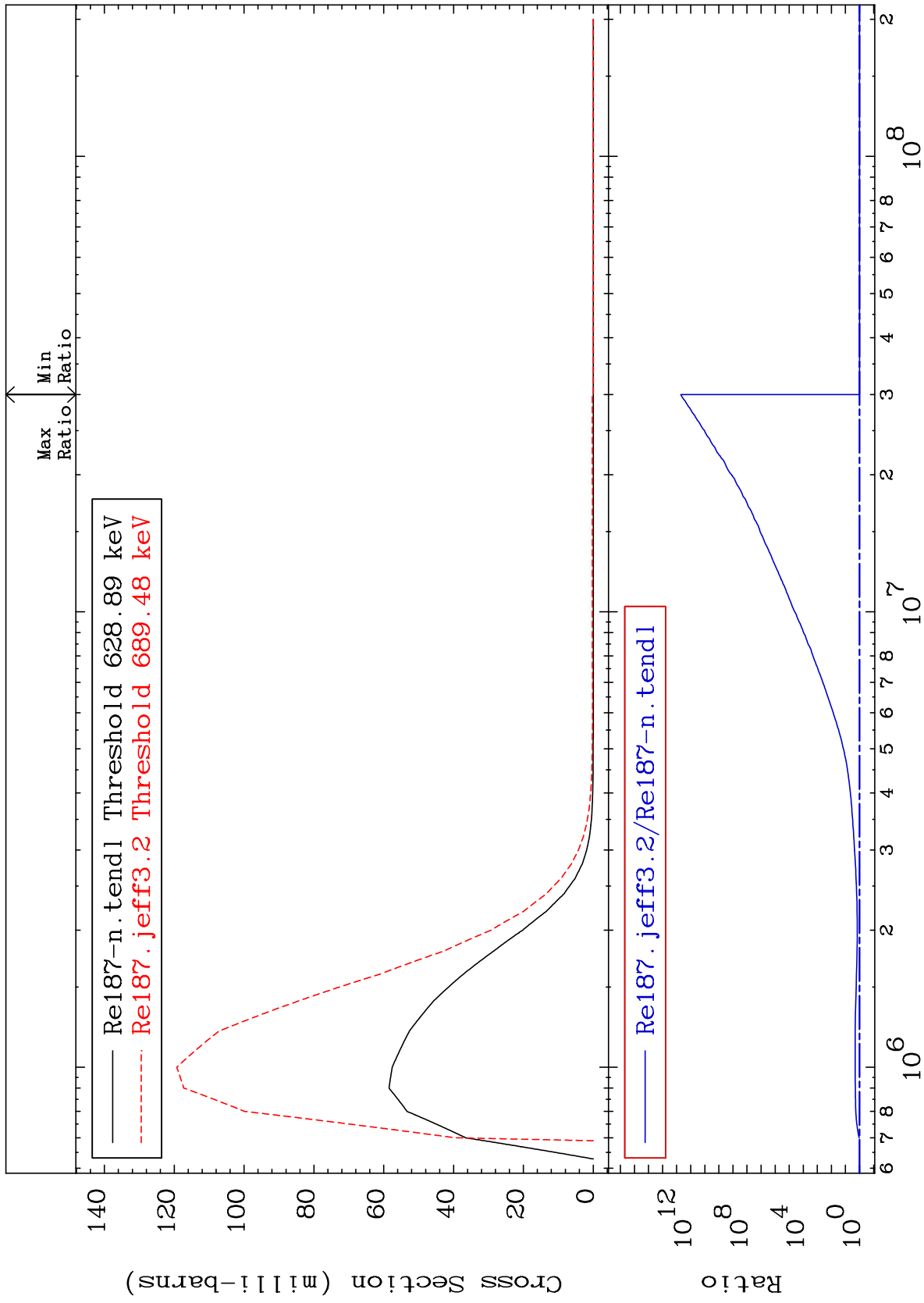


30

Incident Energy (eV)

75-Re-187

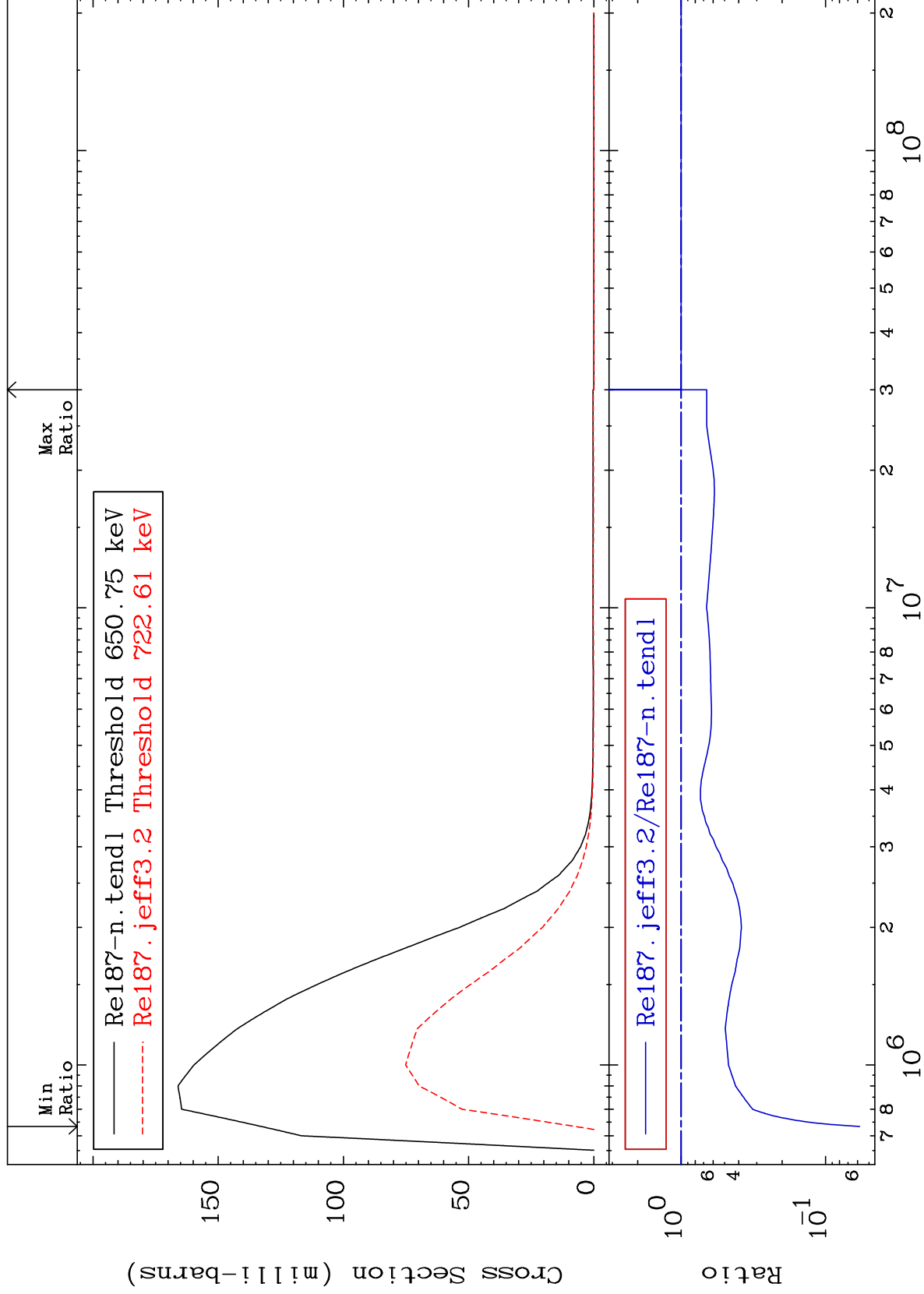
MAT 7531 625.5 keV (n,n') Level 75-Re-187
 Cross Section 0.000 To 9999. %



MAT 7531

647.3 keV (n,n') Level
Cross Section

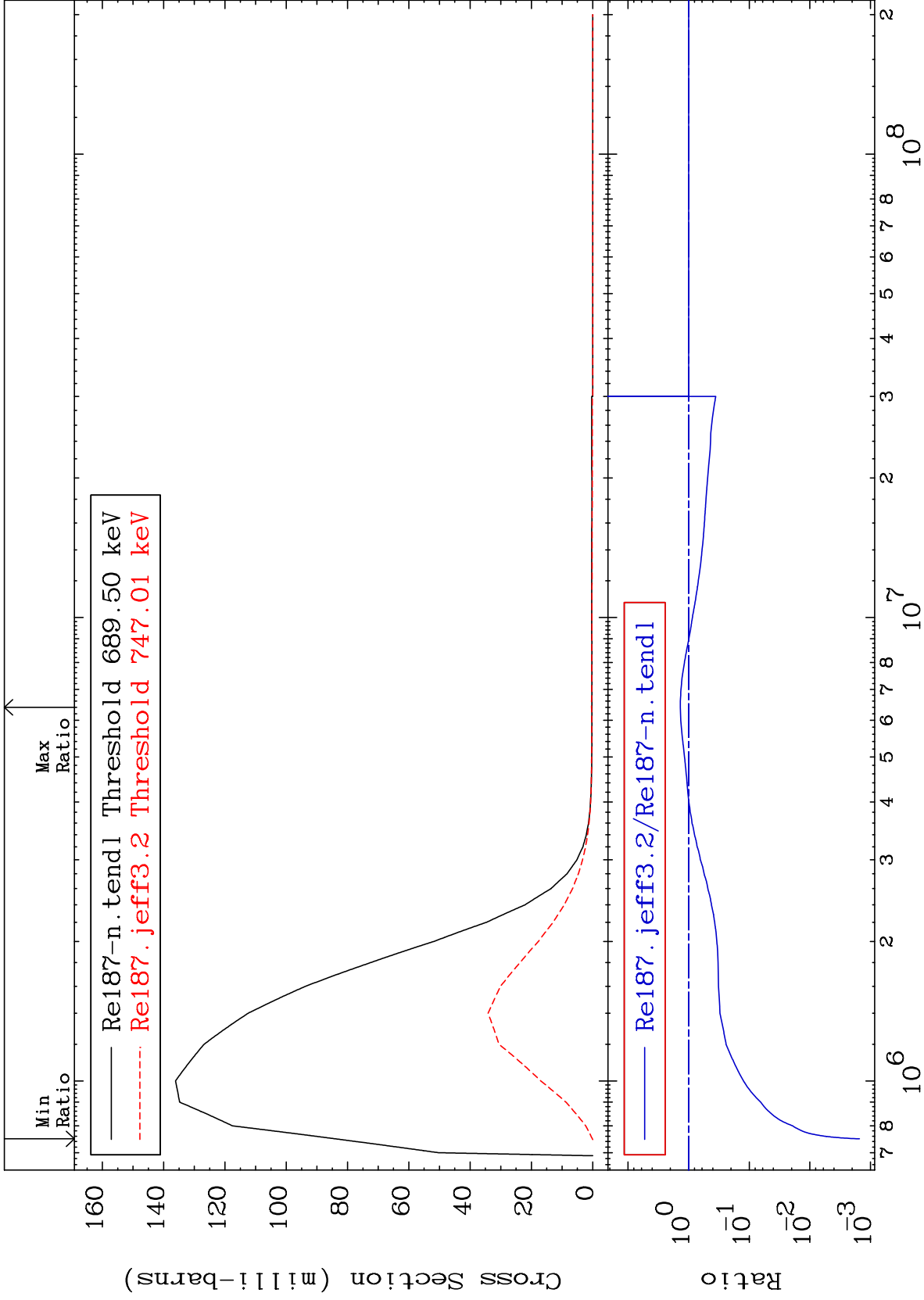
⁷⁵Re-¹⁸⁷Re
-94.19 To 0.000 %



MAT 7531

685.8 keV (n,n') Level
Cross Section

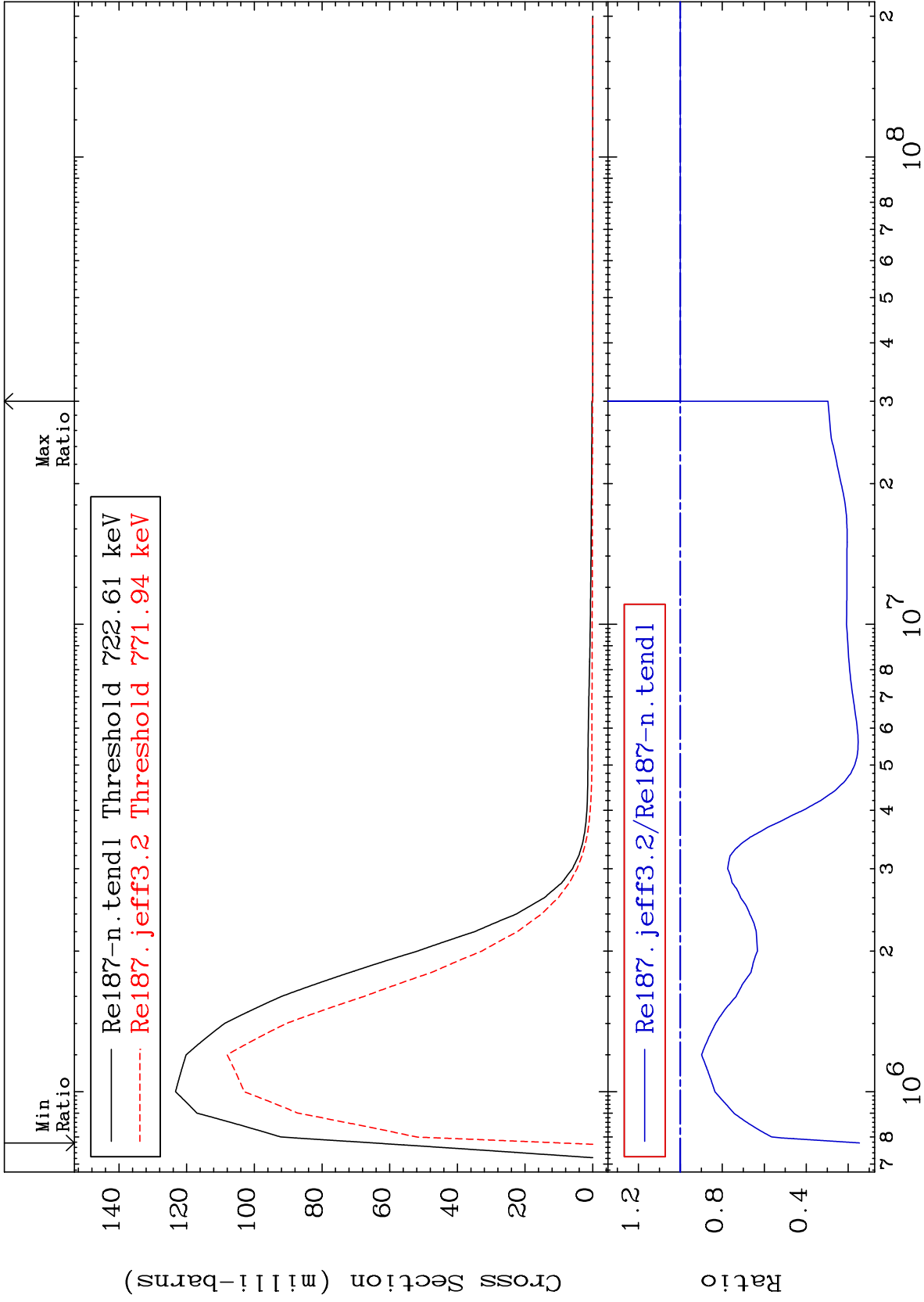
⁷⁵Re-¹⁸⁷
-99.85 To 36.96 %



MAT 7531

718.7 keV (n,n') Level
Cross Section

75-Re-187
-85.34 To 0.000 %



34

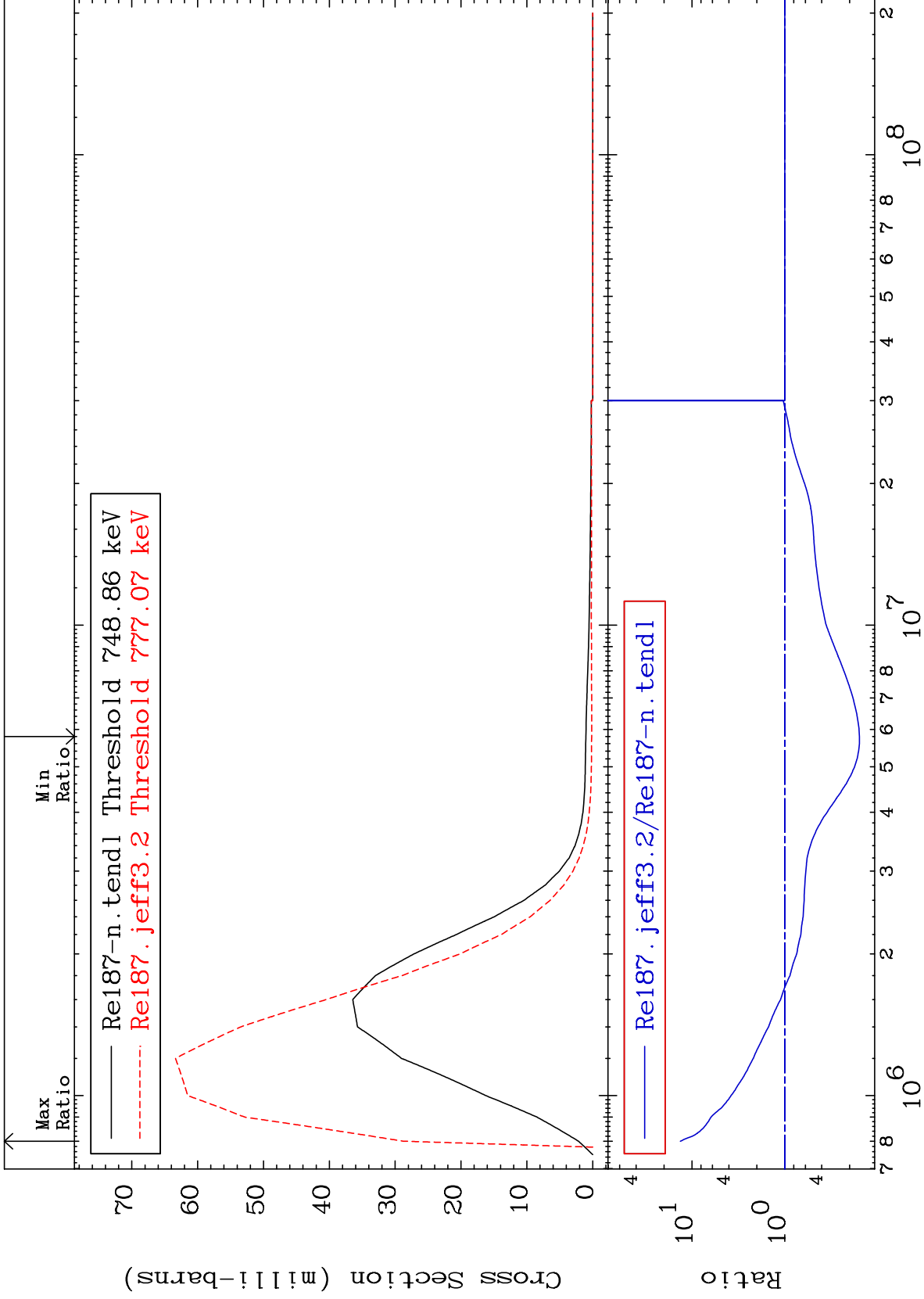
Incident Energy (eV)

75-Re-187

MAT 7531

744.8 keV (n,n') Level
Cross Section

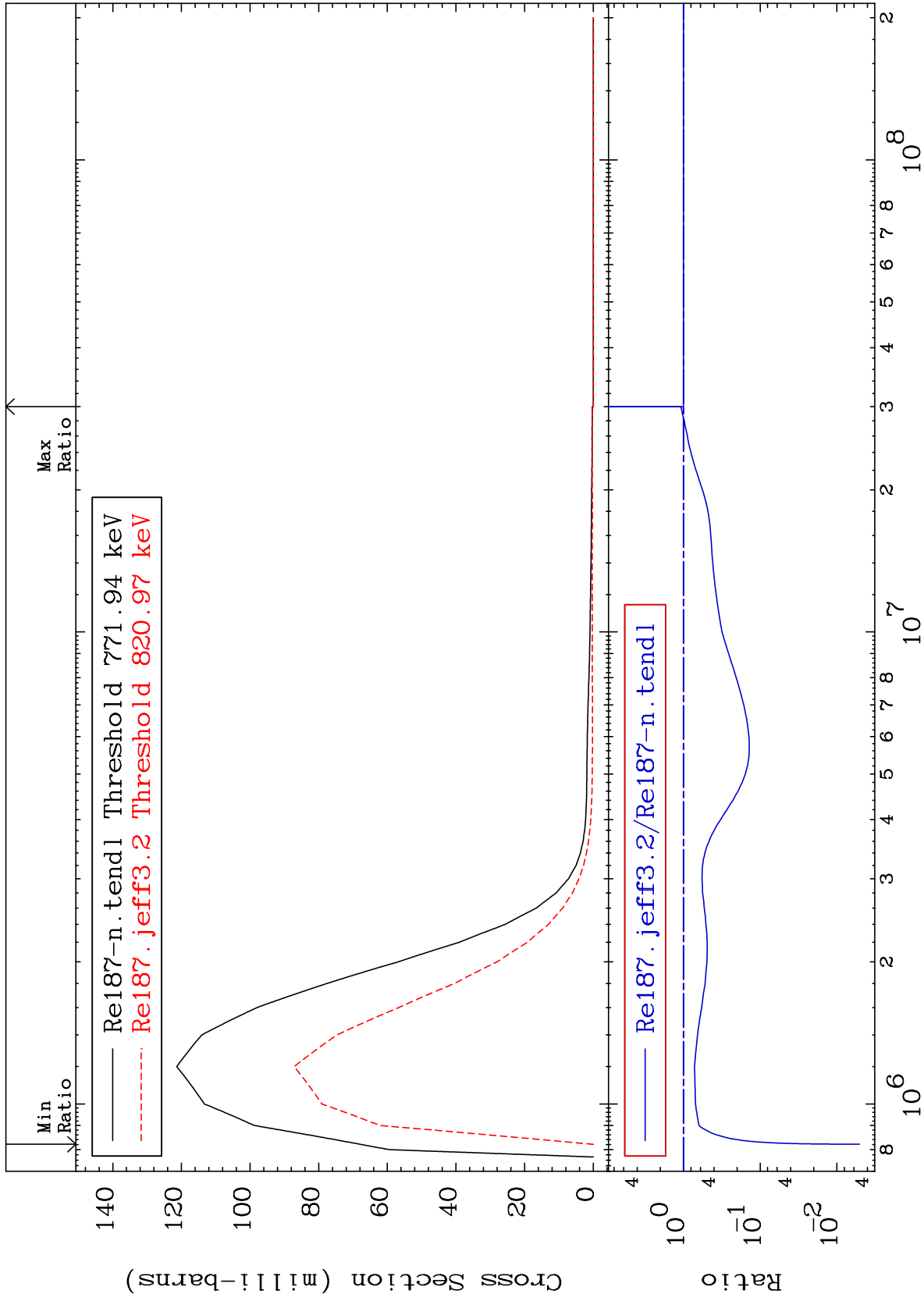
⁷⁵Re-¹⁸⁷Re
-84.33 To 1233. %



MAT 7531

767.8 keV (n,n') Level
Cross Section

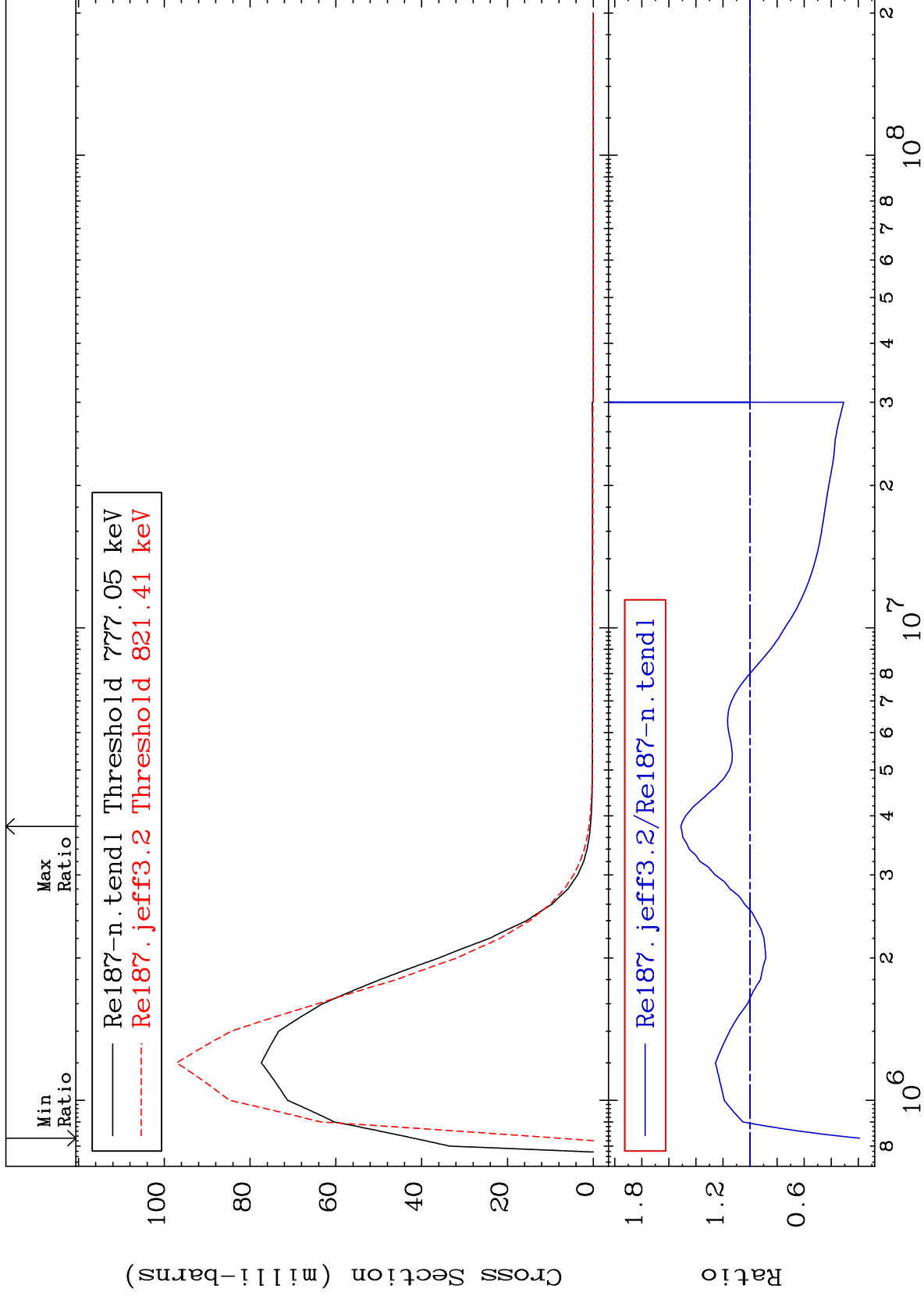
⁷⁵Re-¹⁸⁷Re
-99.49 To 8.416 %



MAT 7531

772.9 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-80.98 To 51.14 %



37

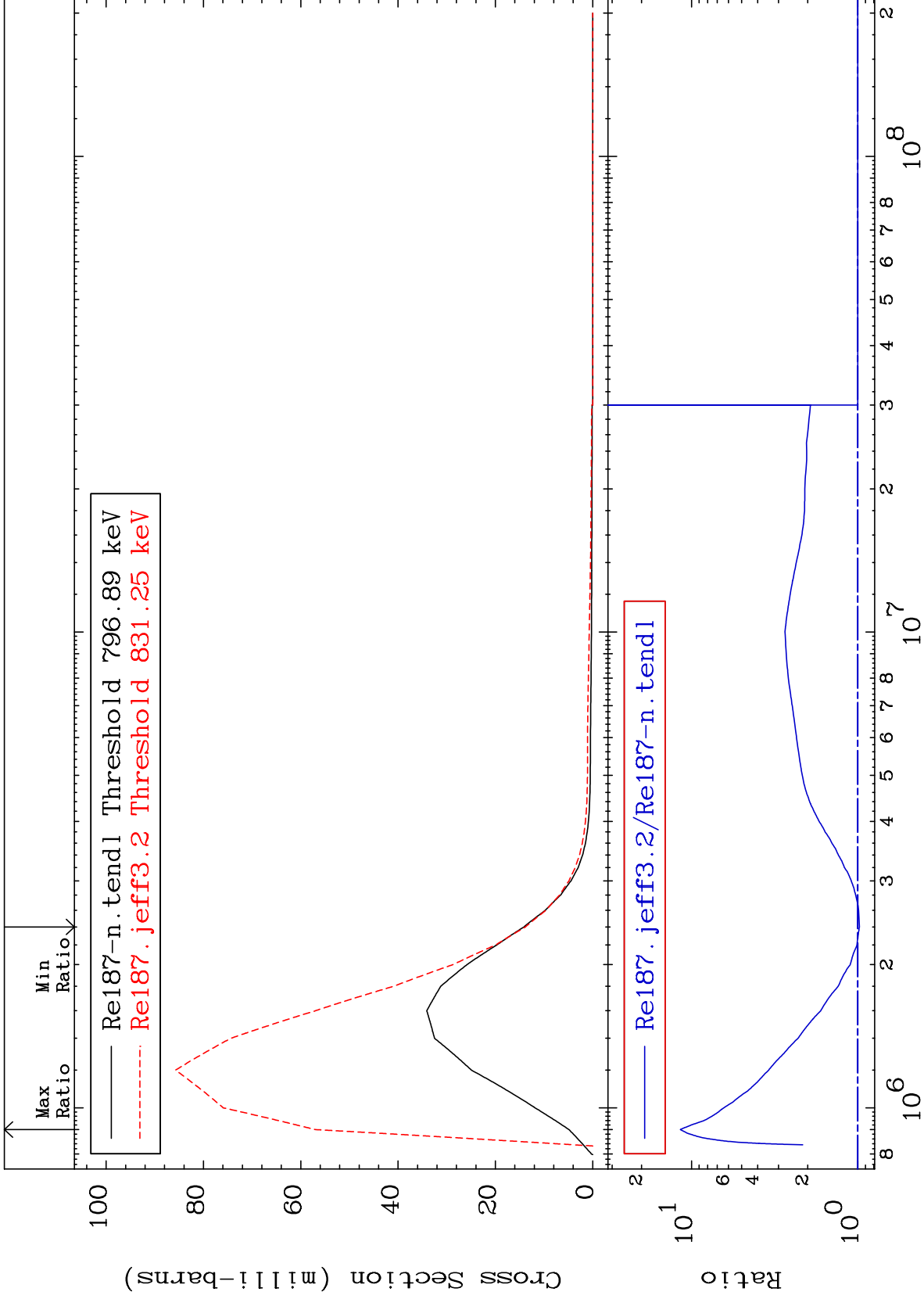
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

792.6 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-2.231 To 1067. %



38

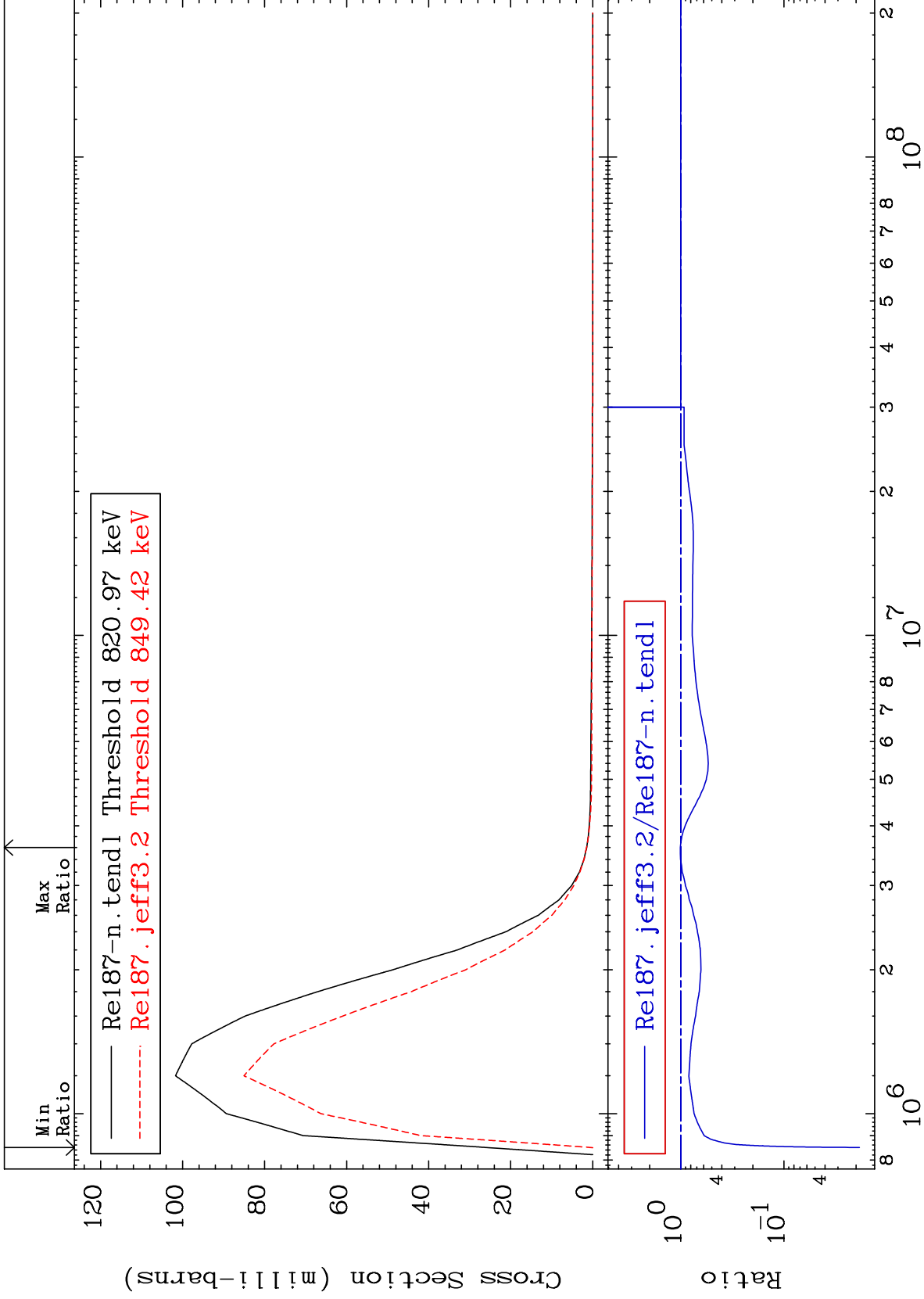
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

816.6 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-98.14 To 0.846 %



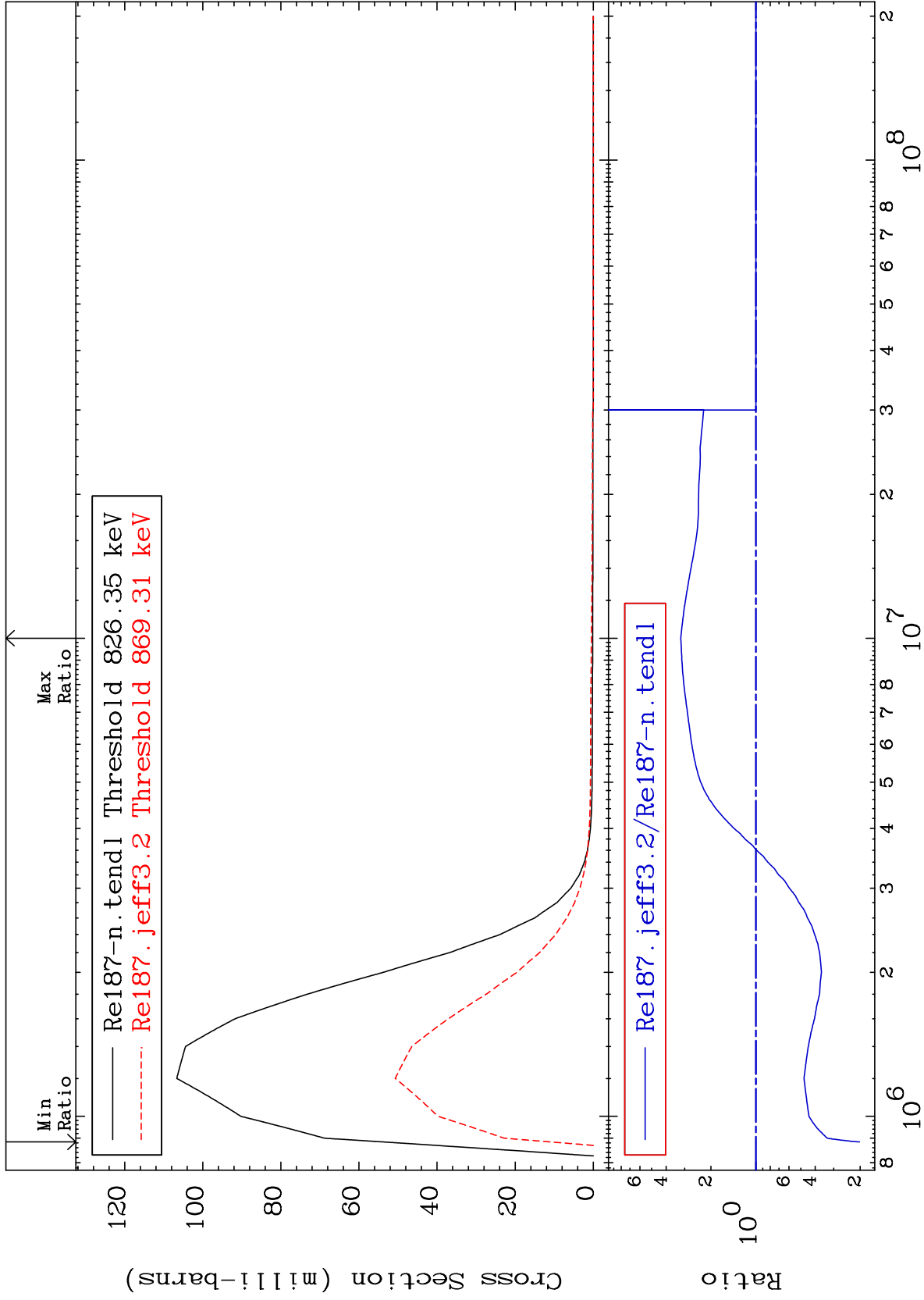
MAT 7531

821.9 keV (n,n') Level

⁷⁵Re-¹⁸⁷

-79.84 To 218.9 %

Cross Section



40

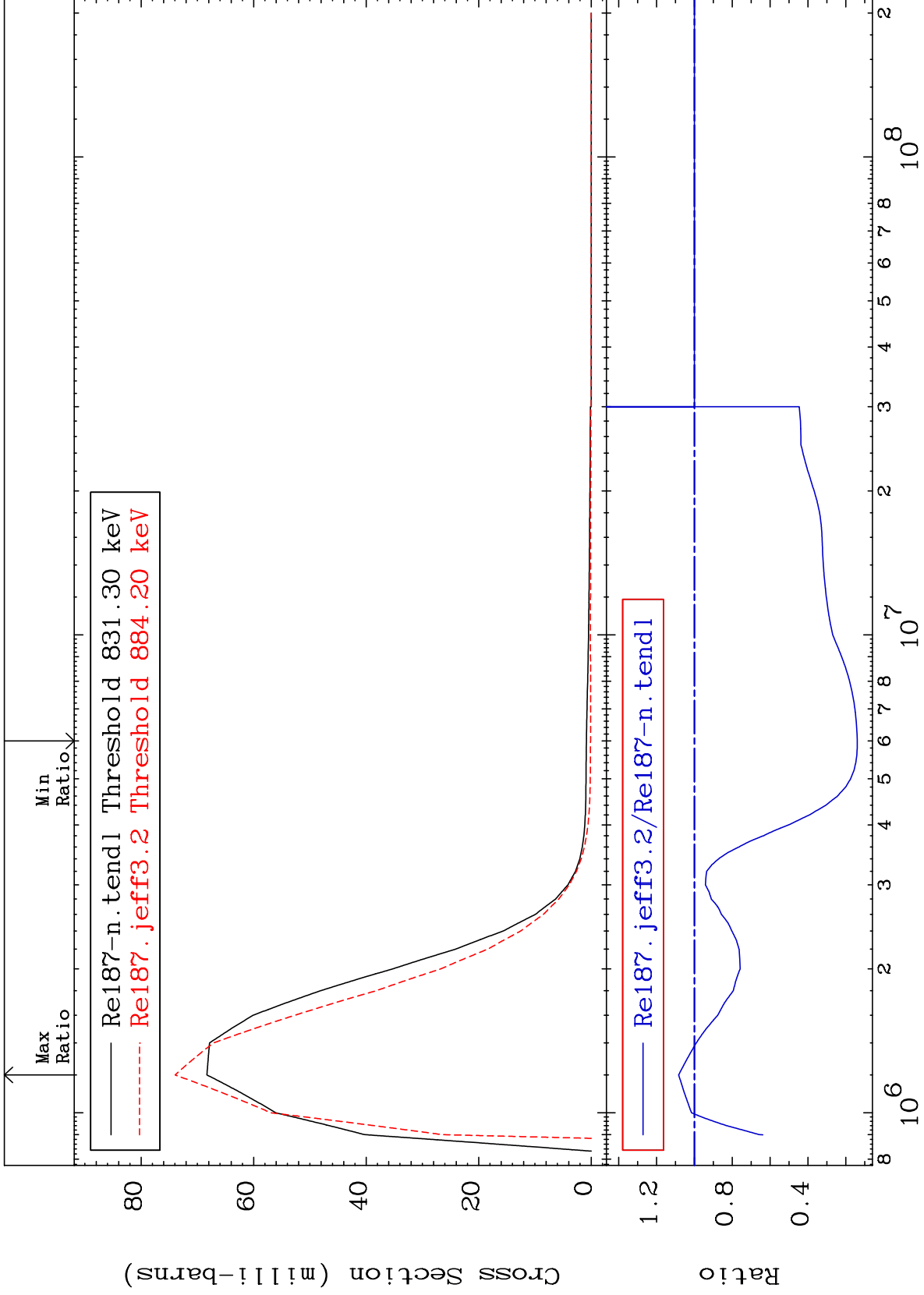
Incident Energy (eV)

⁷⁵Re-¹⁸⁷

MAT 7531

826.8 keV (n,n') Level
Cross Section

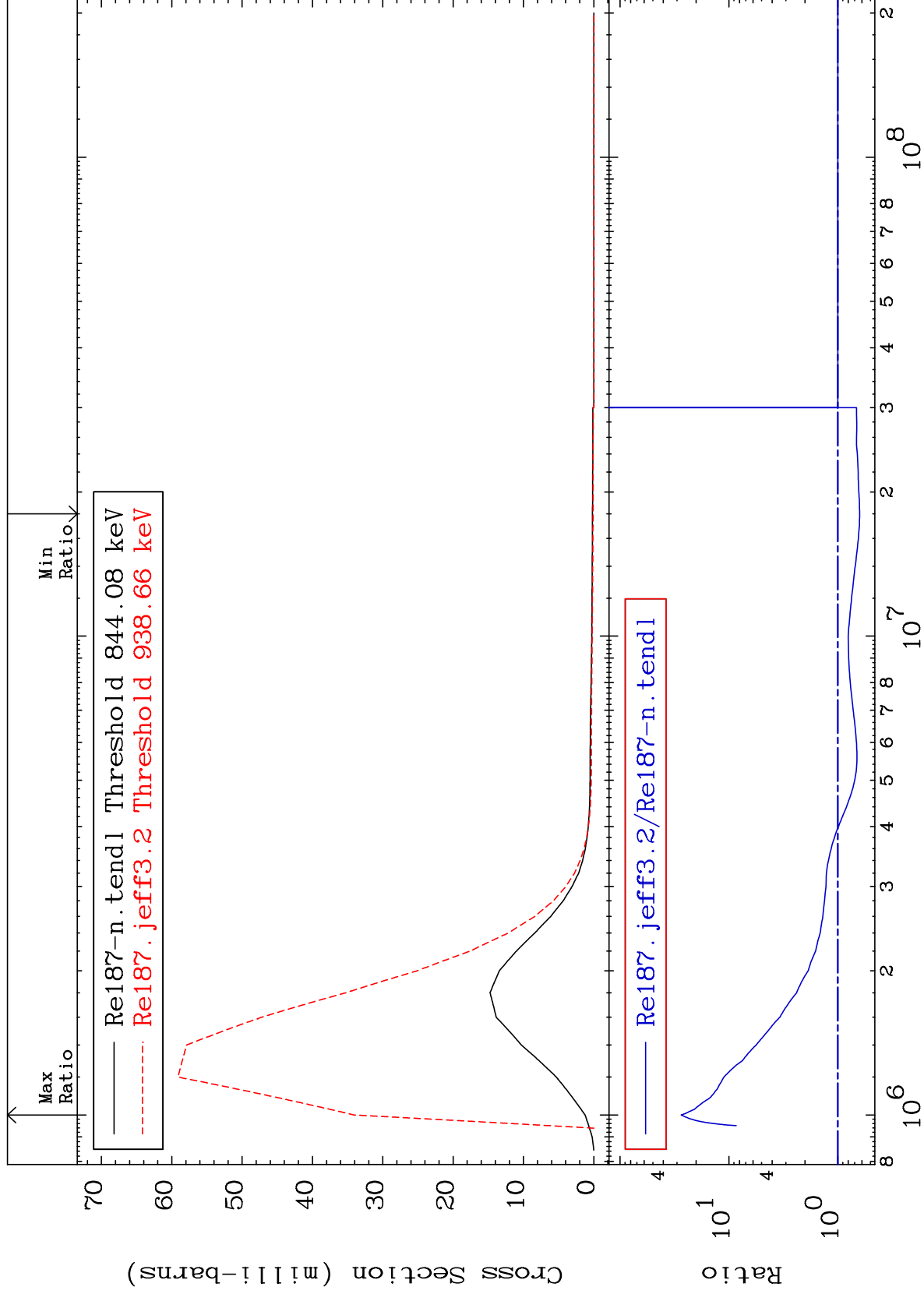
⁷⁵Re-¹⁸⁷
-86.09 To 8.299 %



MAT 7531

839.6 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷
-37.08 To 2642. %



42

Incident Energy (eV)

⁷⁵Re-¹⁸⁷

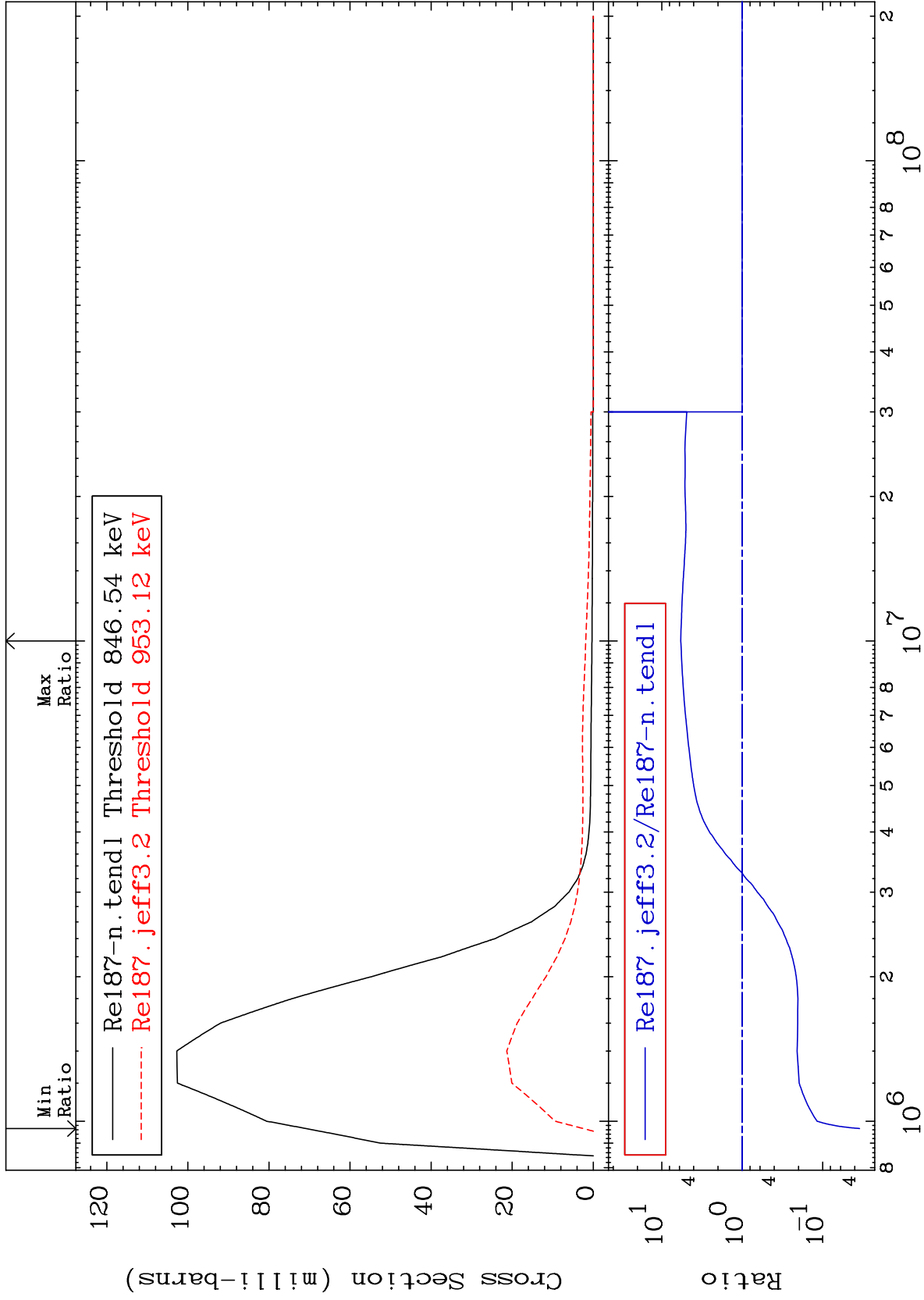
MAT 7531

842.0 keV (n,n') Level

⁷⁵Re-¹⁸⁷

-96.52 To 479.6 %

Cross Section



43

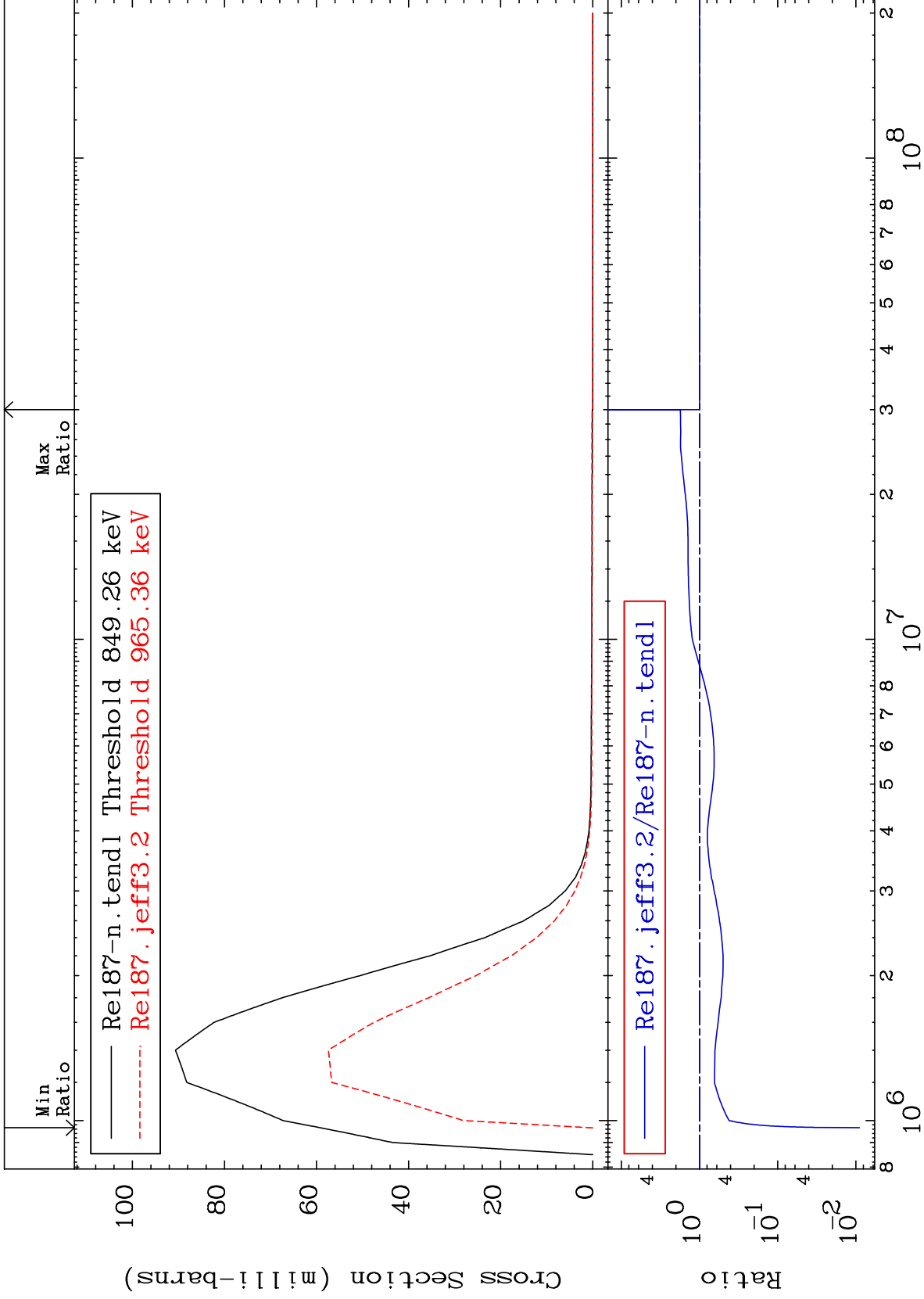
Incident Energy (eV)

⁷⁵Re-¹⁸⁷

MAT 7531

844.7 keV (n,n') Level
Cross Section

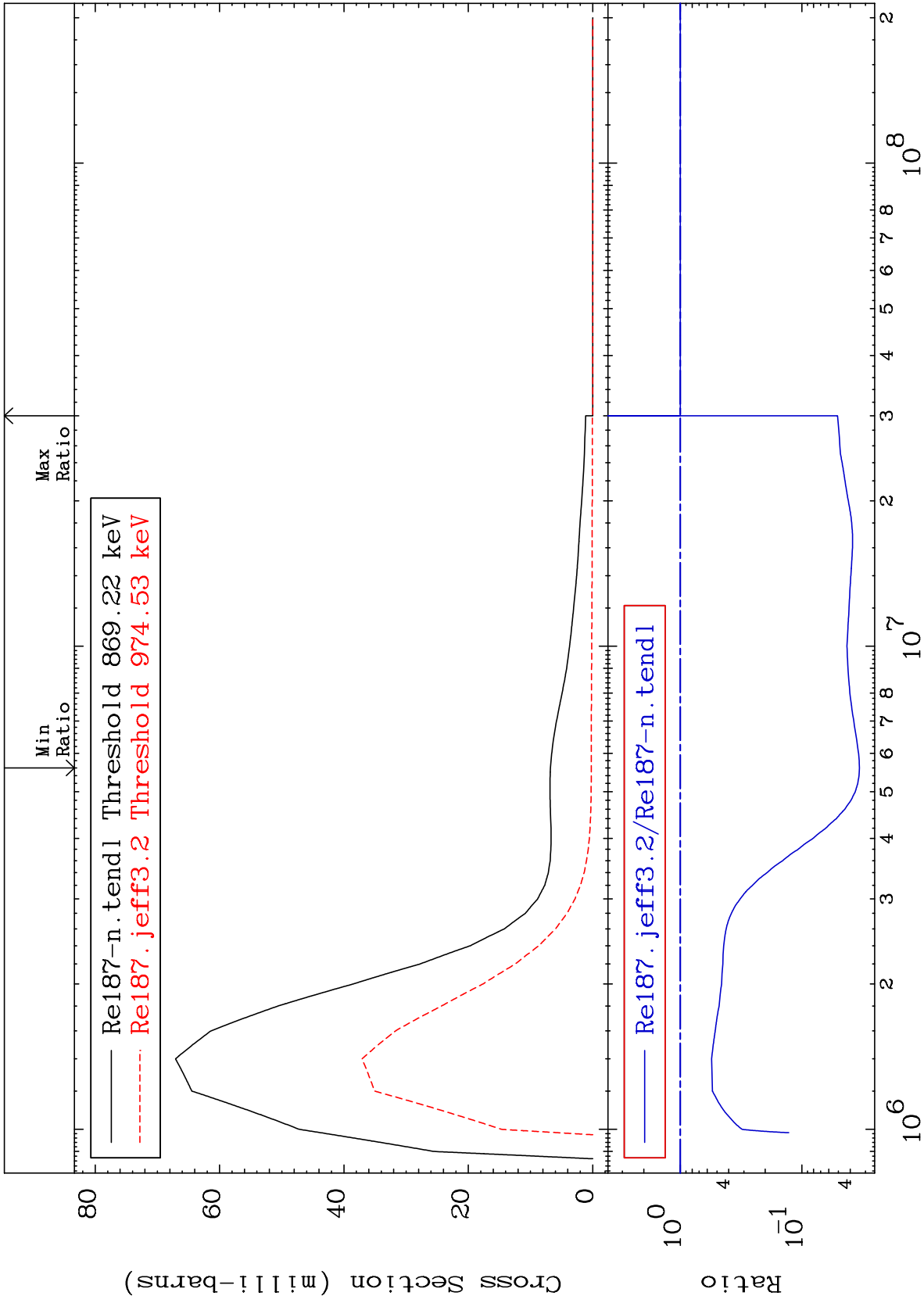
⁷⁵Re-¹⁸⁷Re
-99.10 To 75.36 %



MAT 7531

864.6 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-96.64 To 0.000 %



45

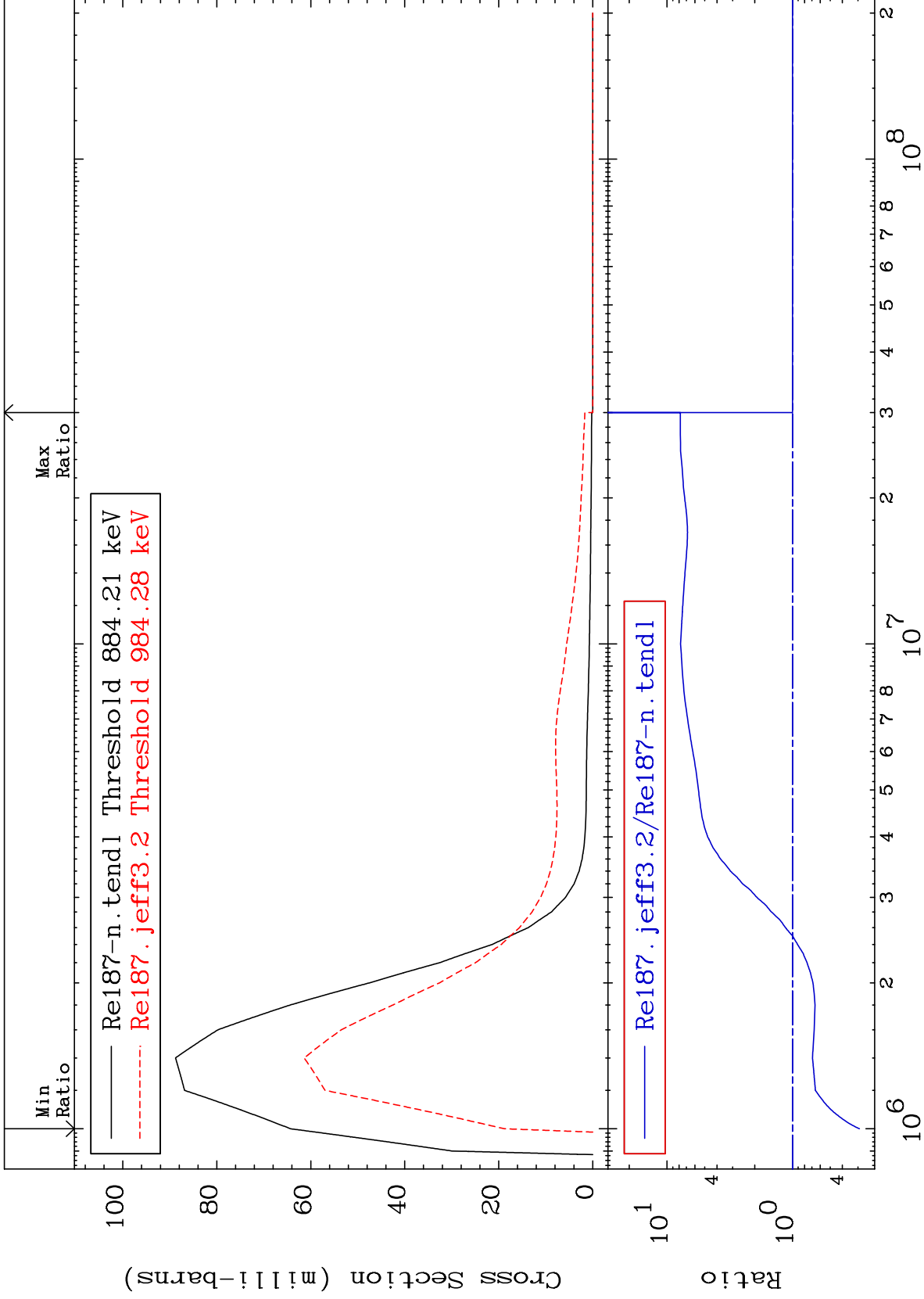
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

879.5 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-70.77 To 682.6 %



46

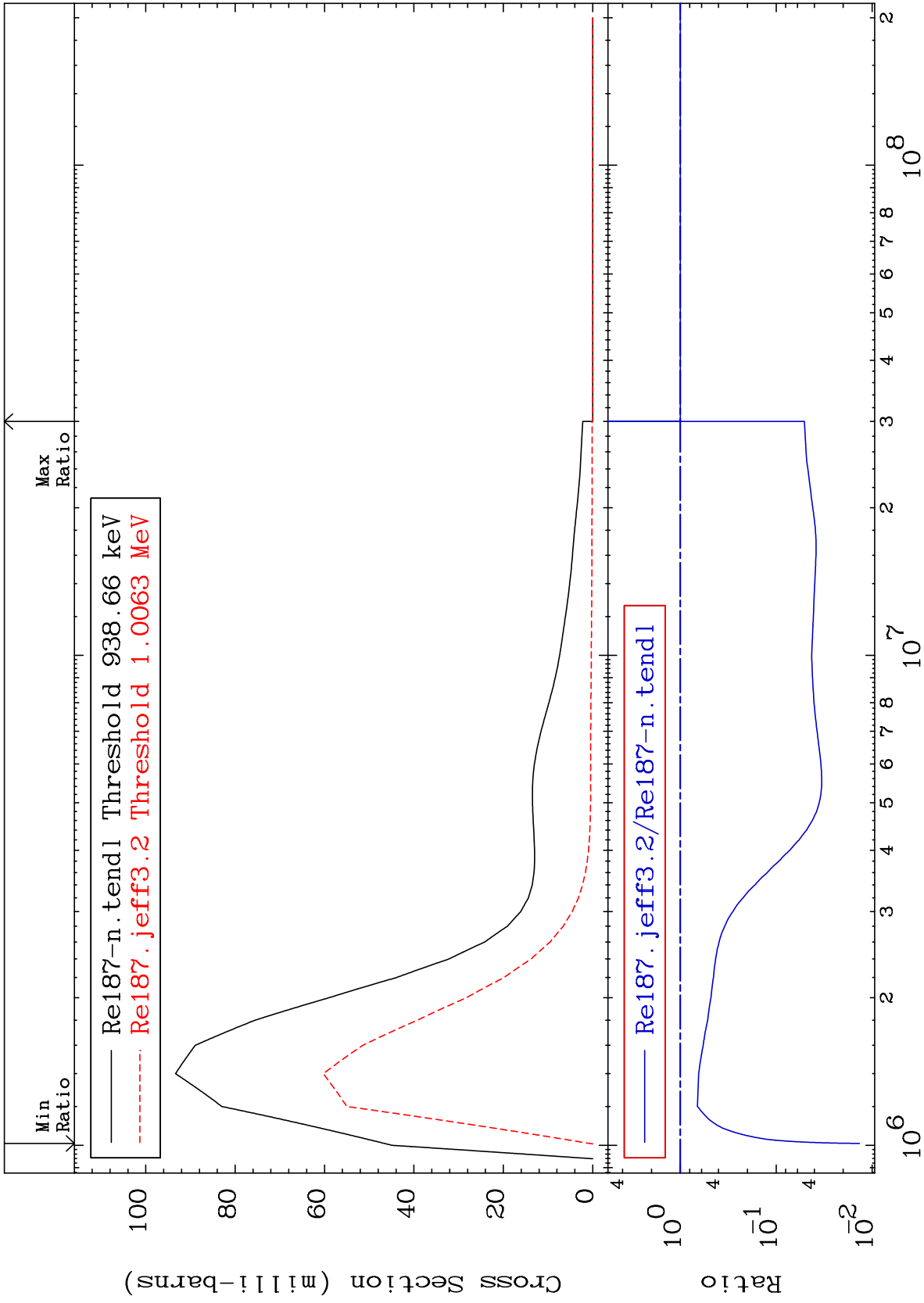
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

933.6 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-98.64 To 0.000 %



47

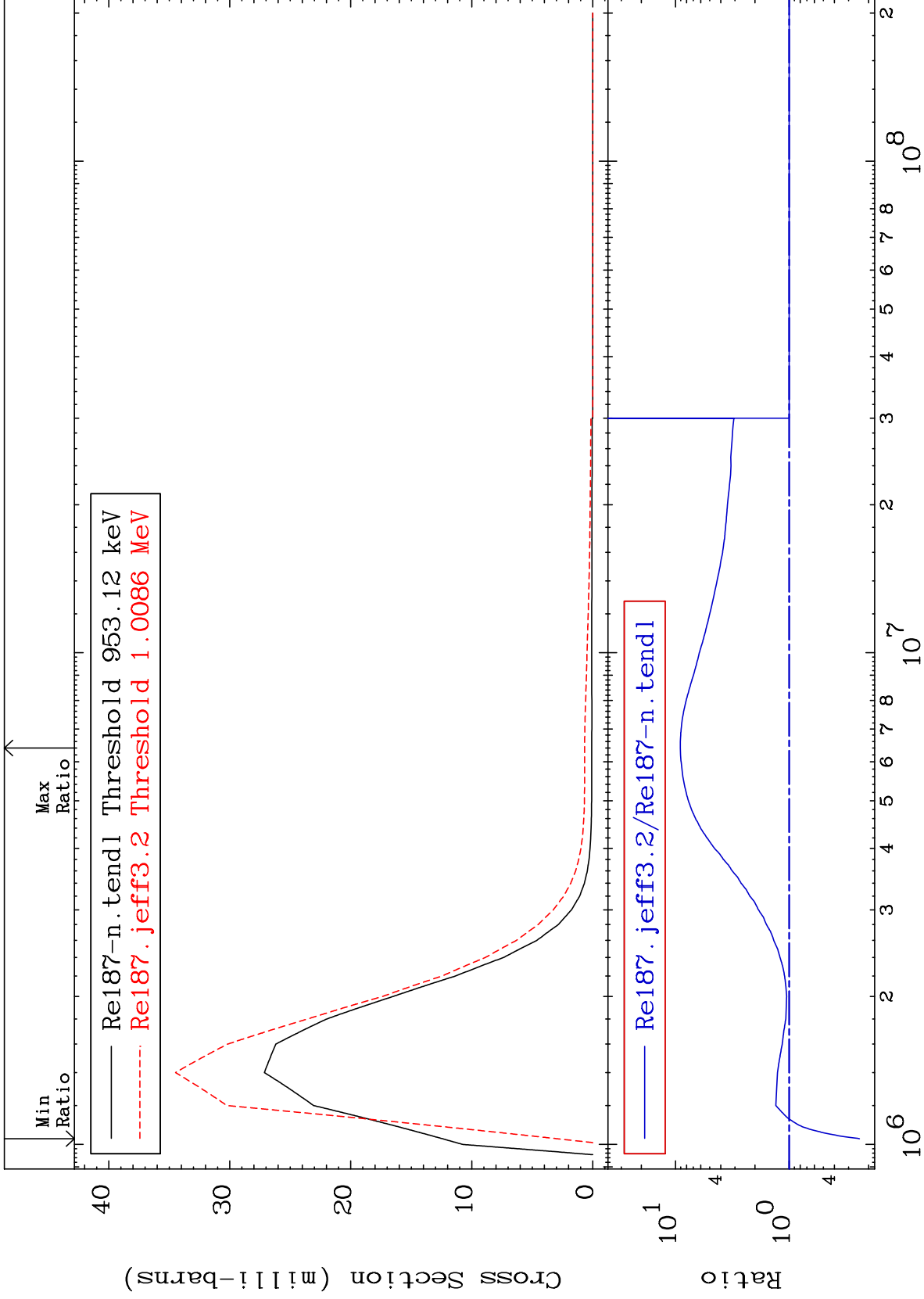
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

948.0 keV (n,n') Level
Cross Section

⁷⁵Re-¹⁸⁷Re
-75.89 To 807.8 %



48

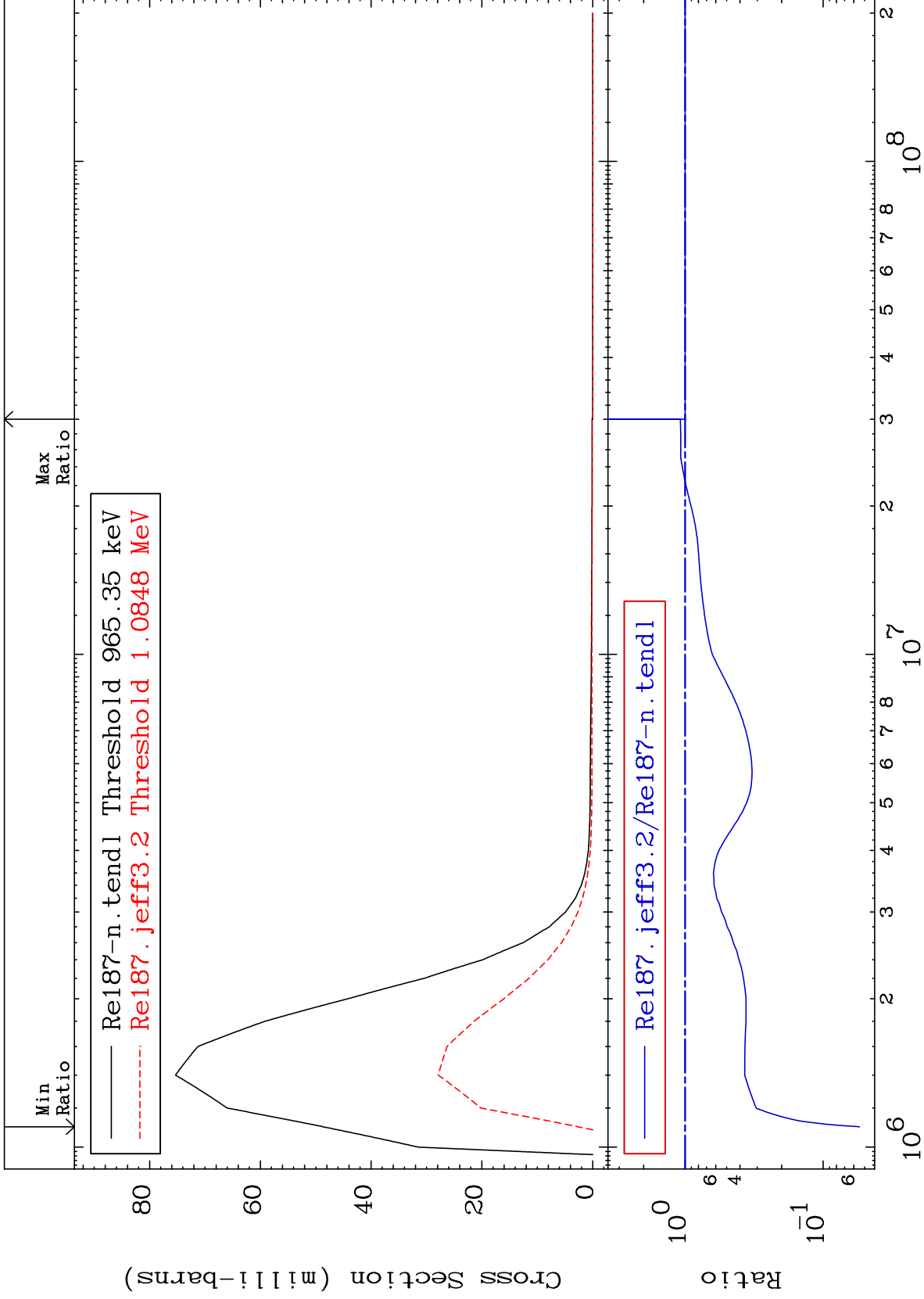
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

960.2 keV (n,n') Level
Cross Section

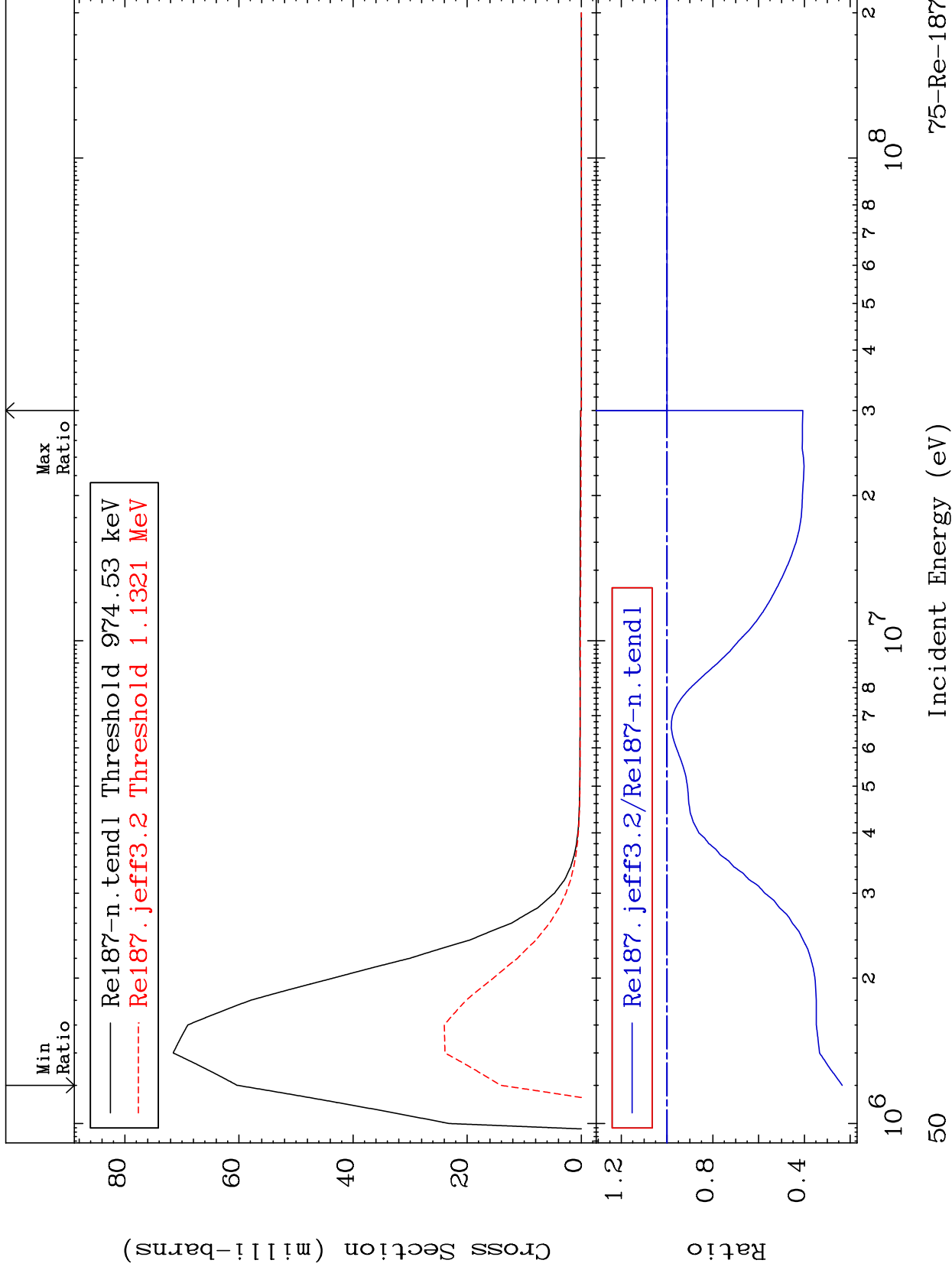
⁷⁵Re-¹⁸⁷Re
-94.54 To 8.259 %



MAT 7531

969.3 keV (n,n') Level
Cross Section

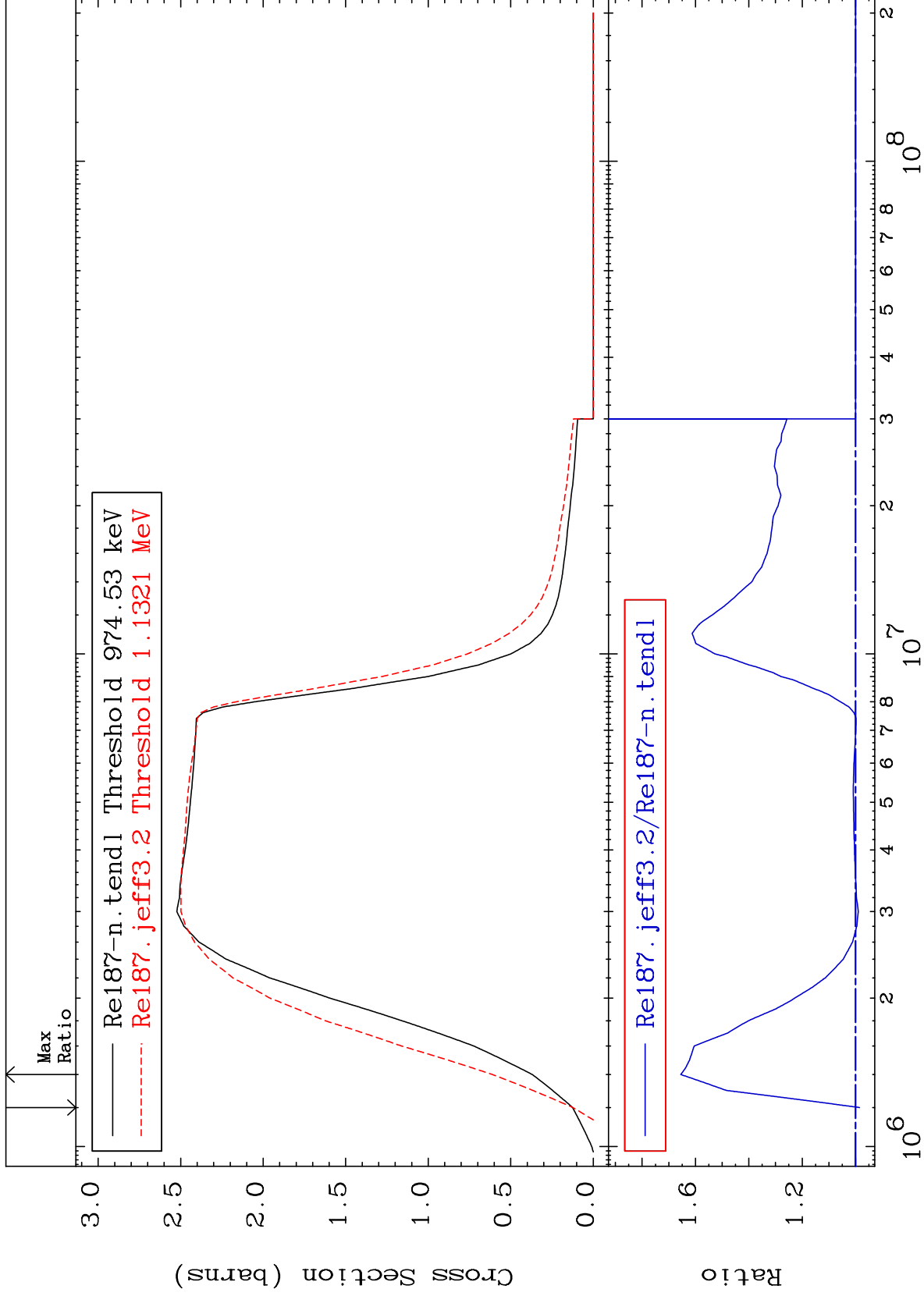
⁷⁵Re-¹⁸⁷Re
-76.50 To 0.000 %



MAT 7531

(n, n') Continuum
Cross Section

⁷⁵Re-¹⁸⁷
-1.494 To 65.51 %



51

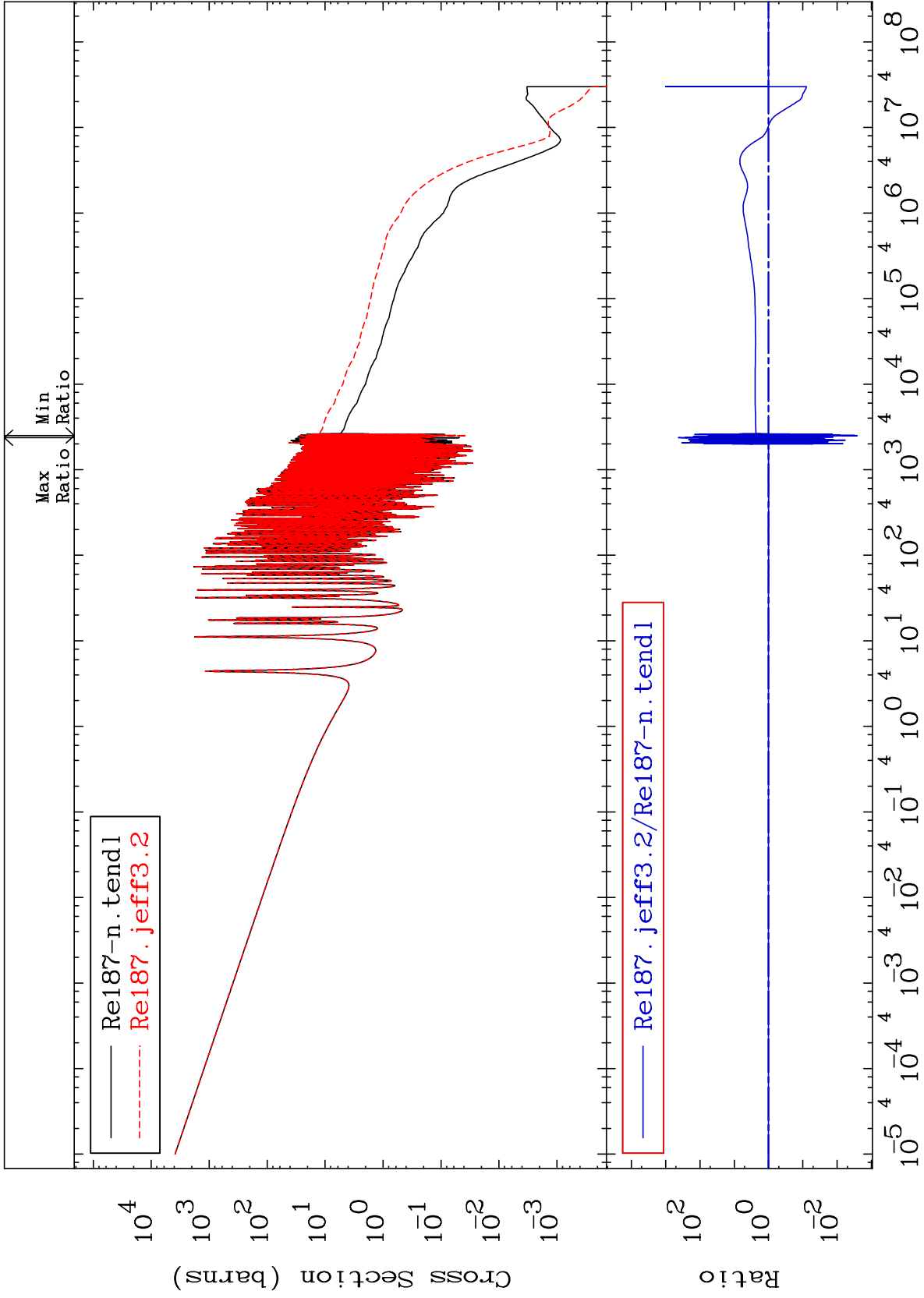
Incident Energy (eV)

⁷⁵Re-¹⁸⁷

MAT 7531

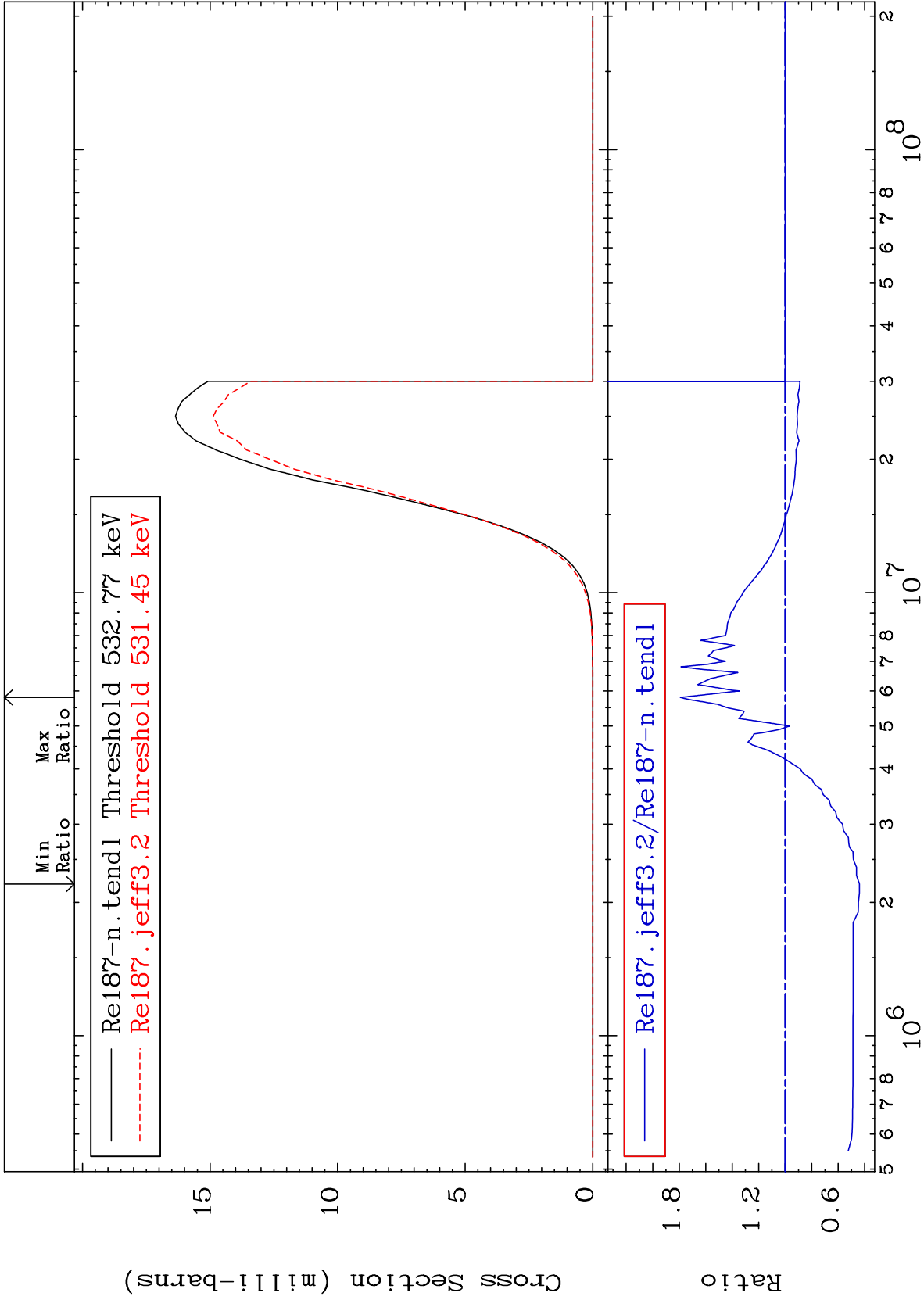
(n, γ)
Cross Section

75-Re-187
-99.74 To 9999. %



Cross Section

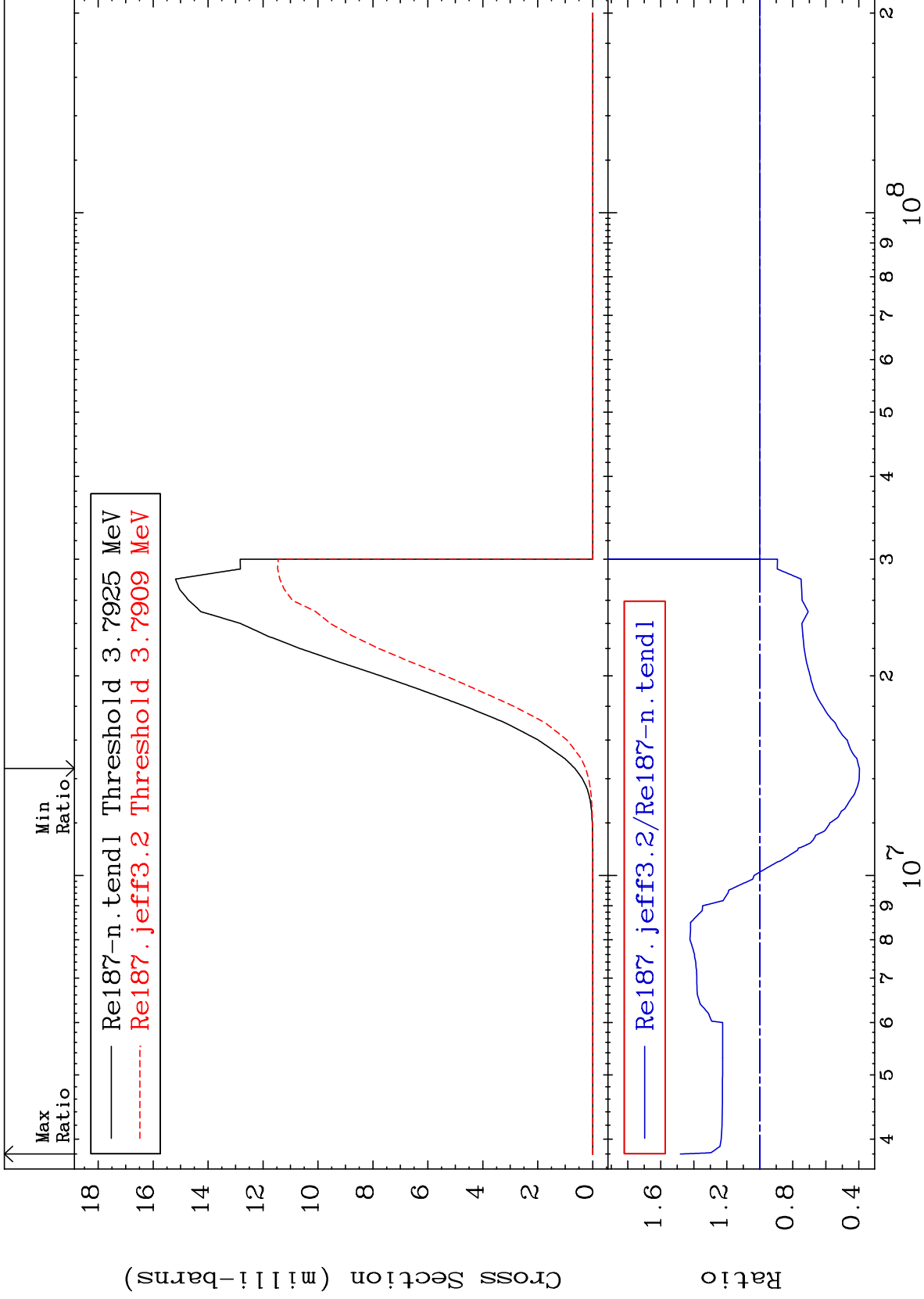
-56.02 To 79.12 %



MAT 7531

(n, d)
Cross Section

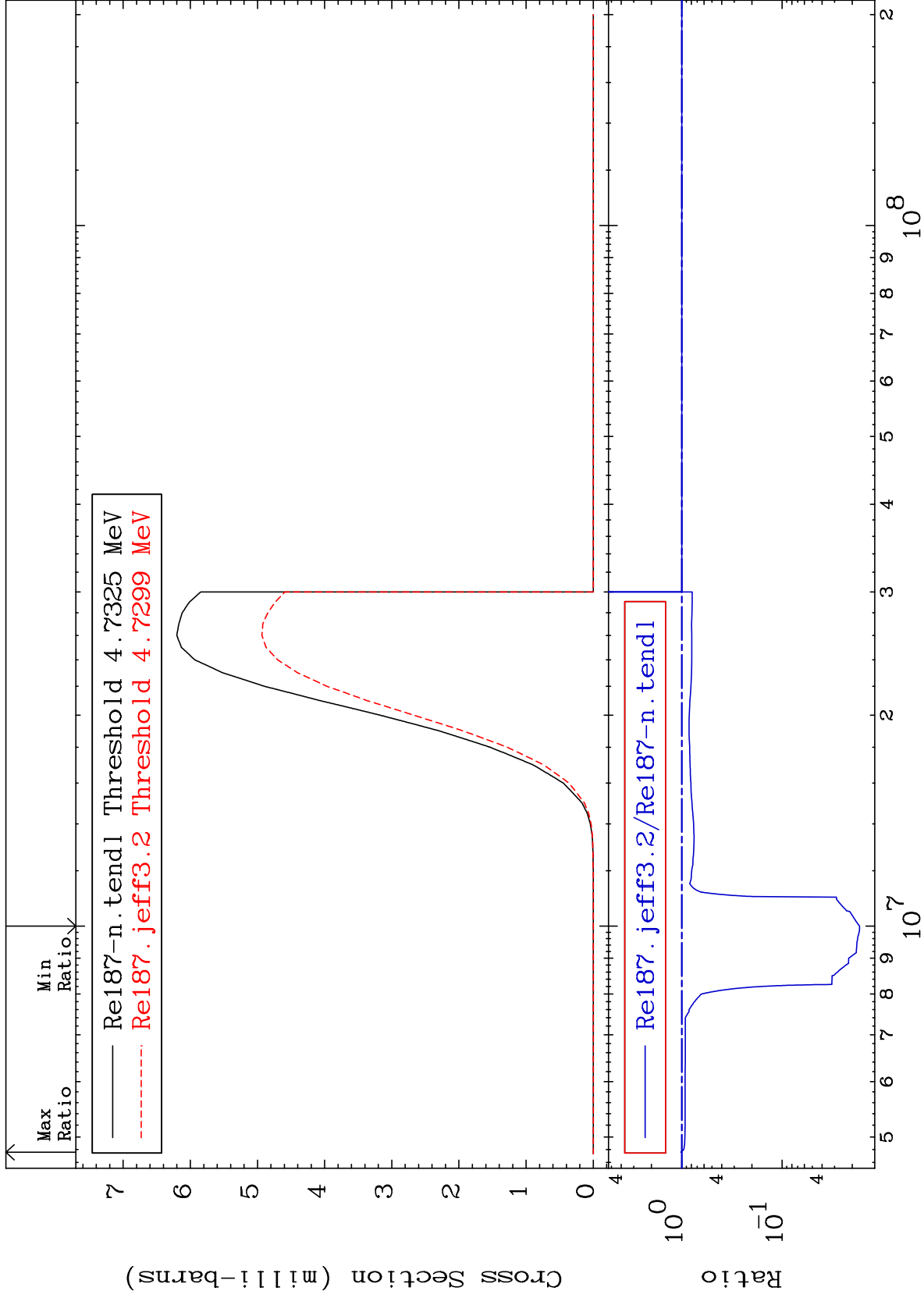
⁷⁵Re-¹⁸⁷Re
-60.39 To 48.13 %



MAT 7531

(n, t)
Cross Section

⁷⁵Re-¹⁸⁷Re
-98.31 To 2.102 %

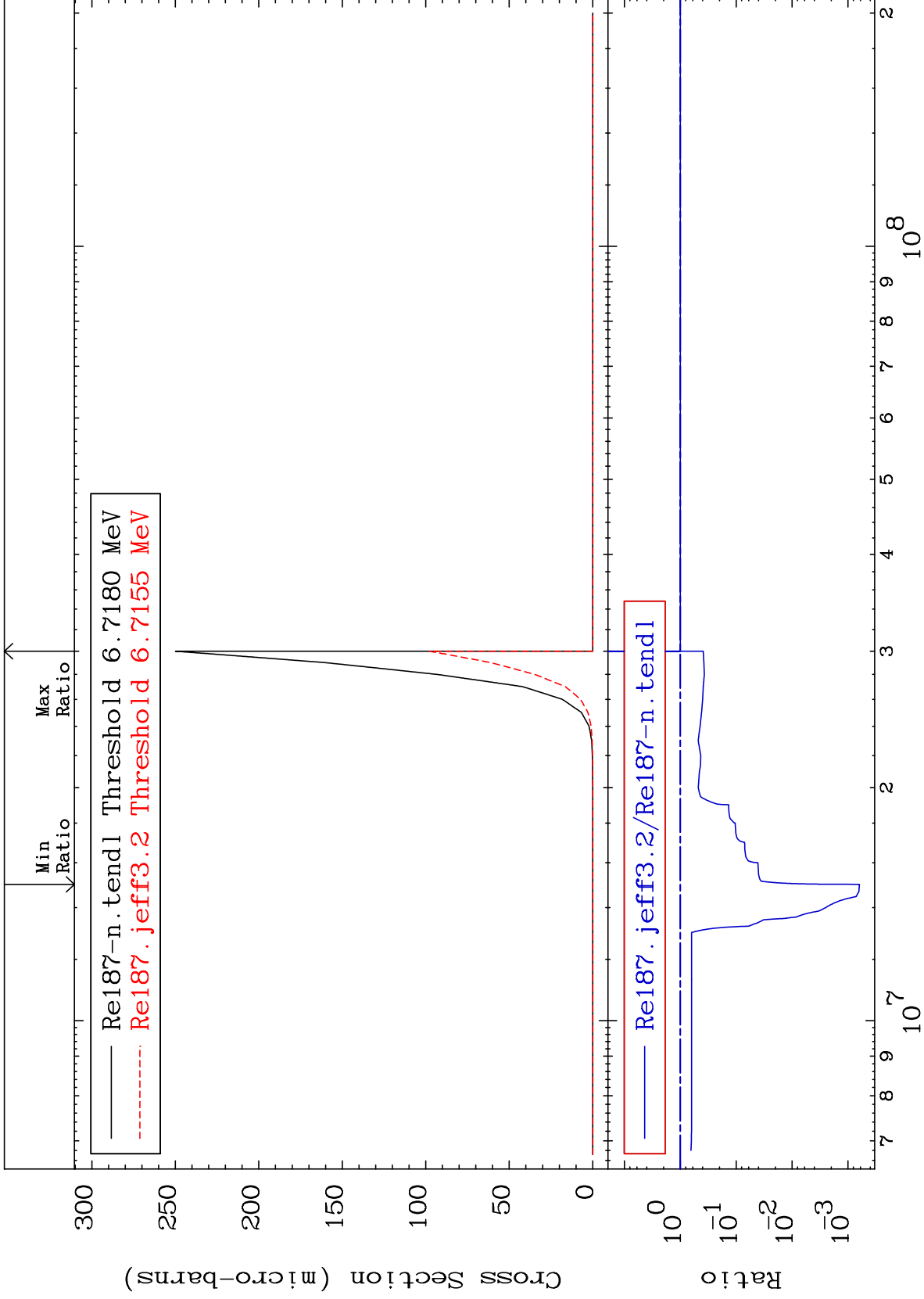


MAT 7531

(n, He-3)

⁷⁵Re-¹⁸⁷Re
-99.94 To 0.000 %

Cross Section



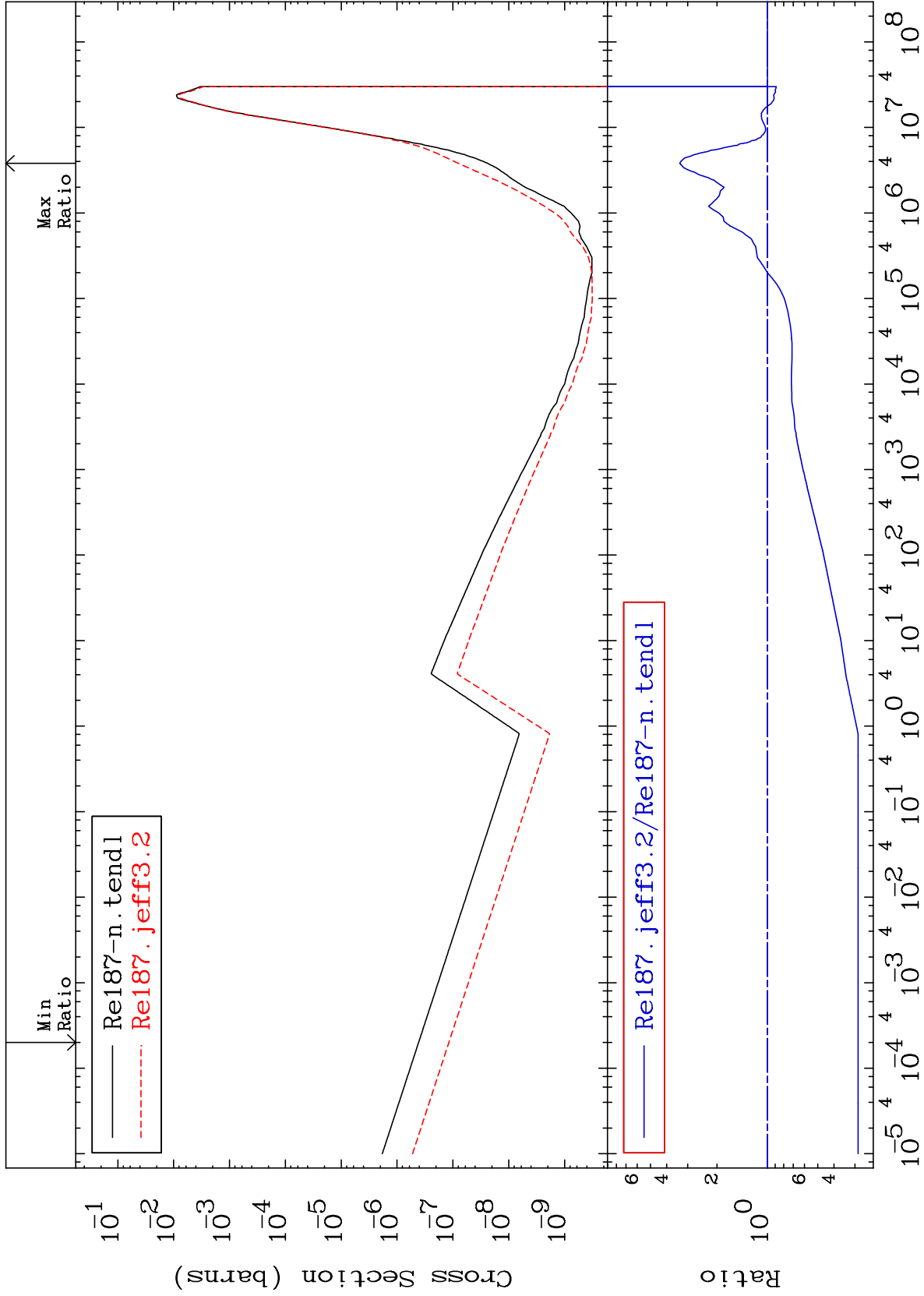
MAT 7531

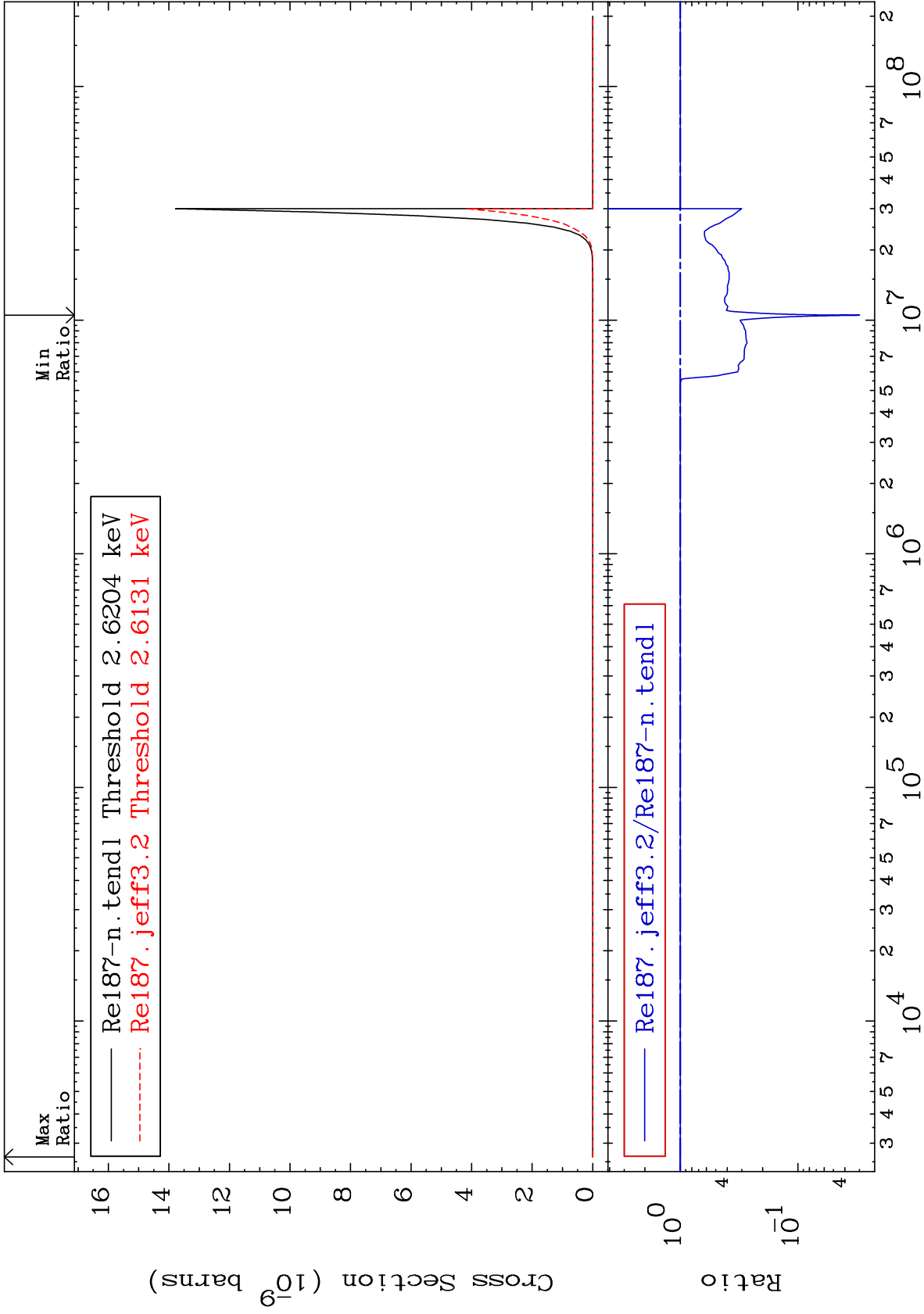
(n, α)

75-Re-187

Cross Section

-71.29 To 234.8 %

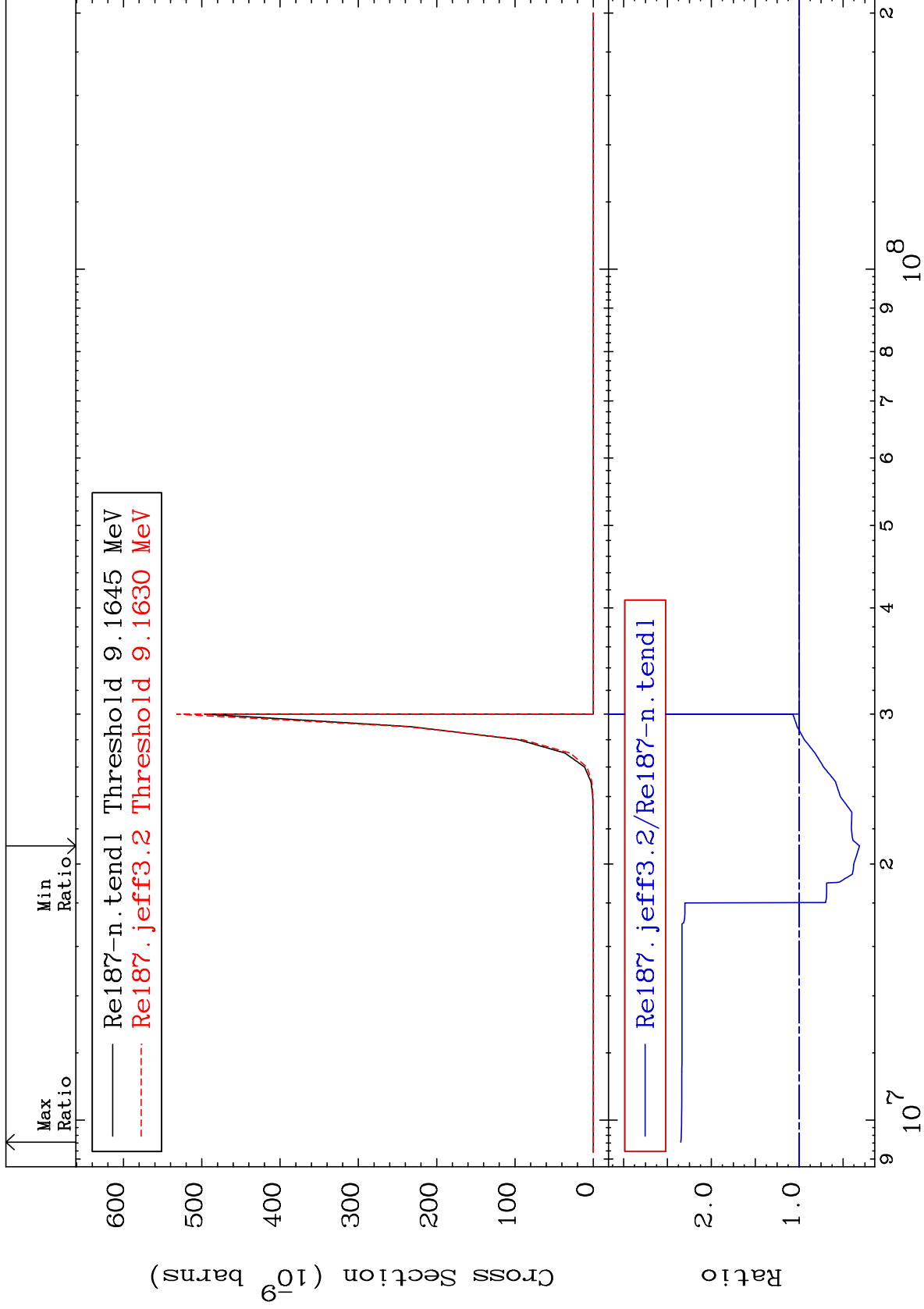




MAT 7531

(n,2p)
Cross Section

⁷⁵Re-¹⁸⁷Re
-68.80 To 134.9 %



59

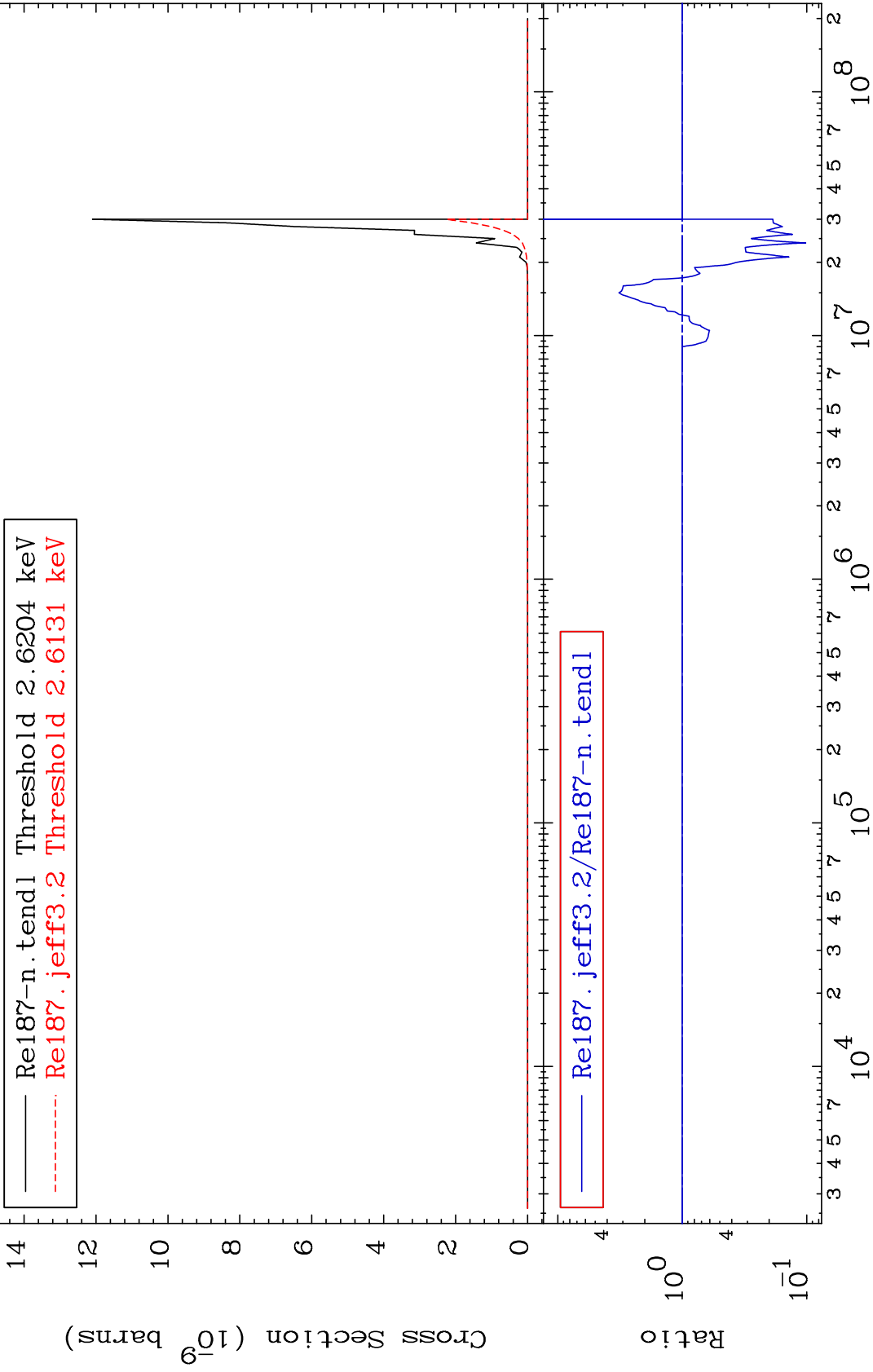
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

(n, p) α
Cross Section

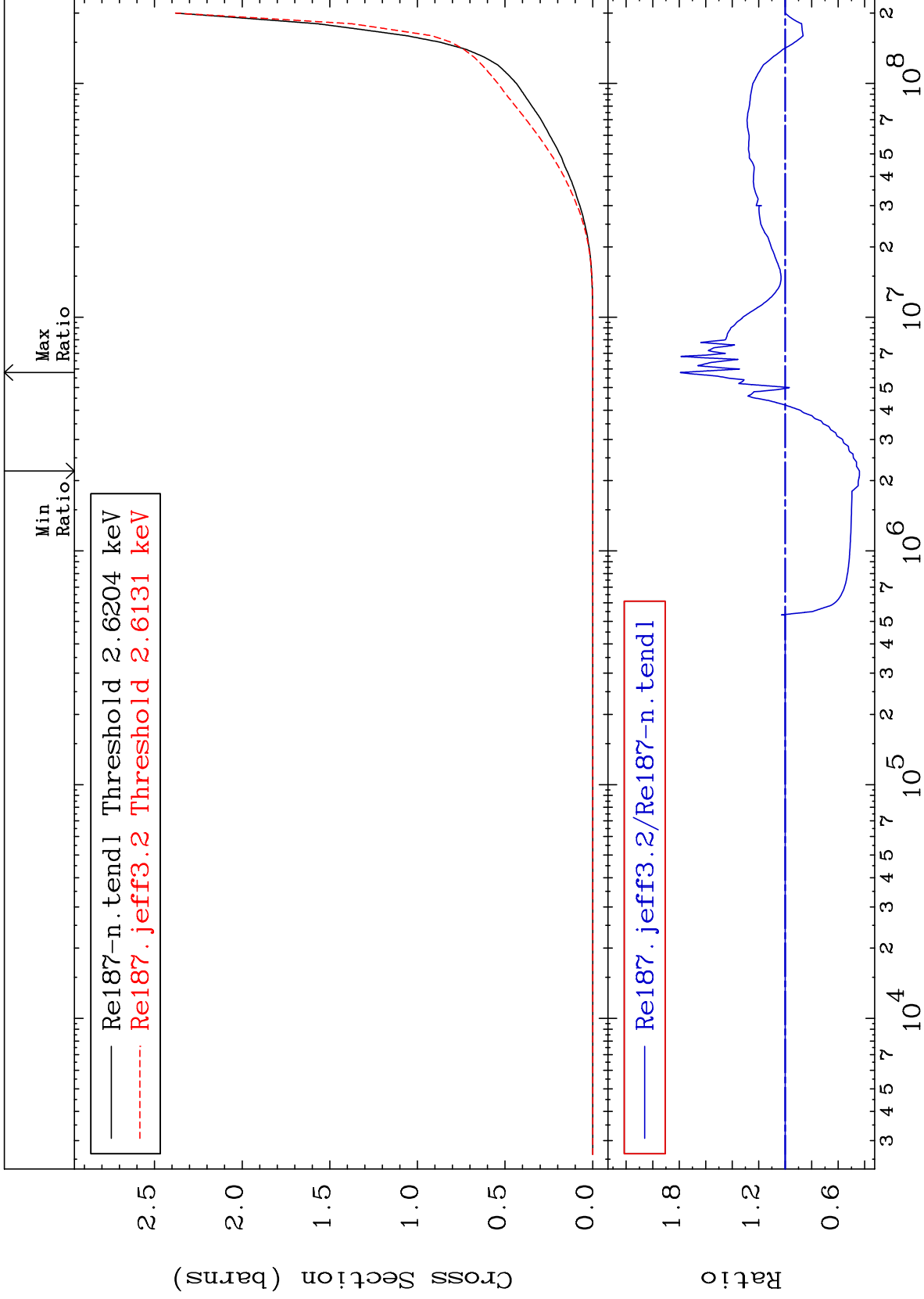
75-Re-187
-89.81 To 222.2 %



60

Incident Energy (eV)

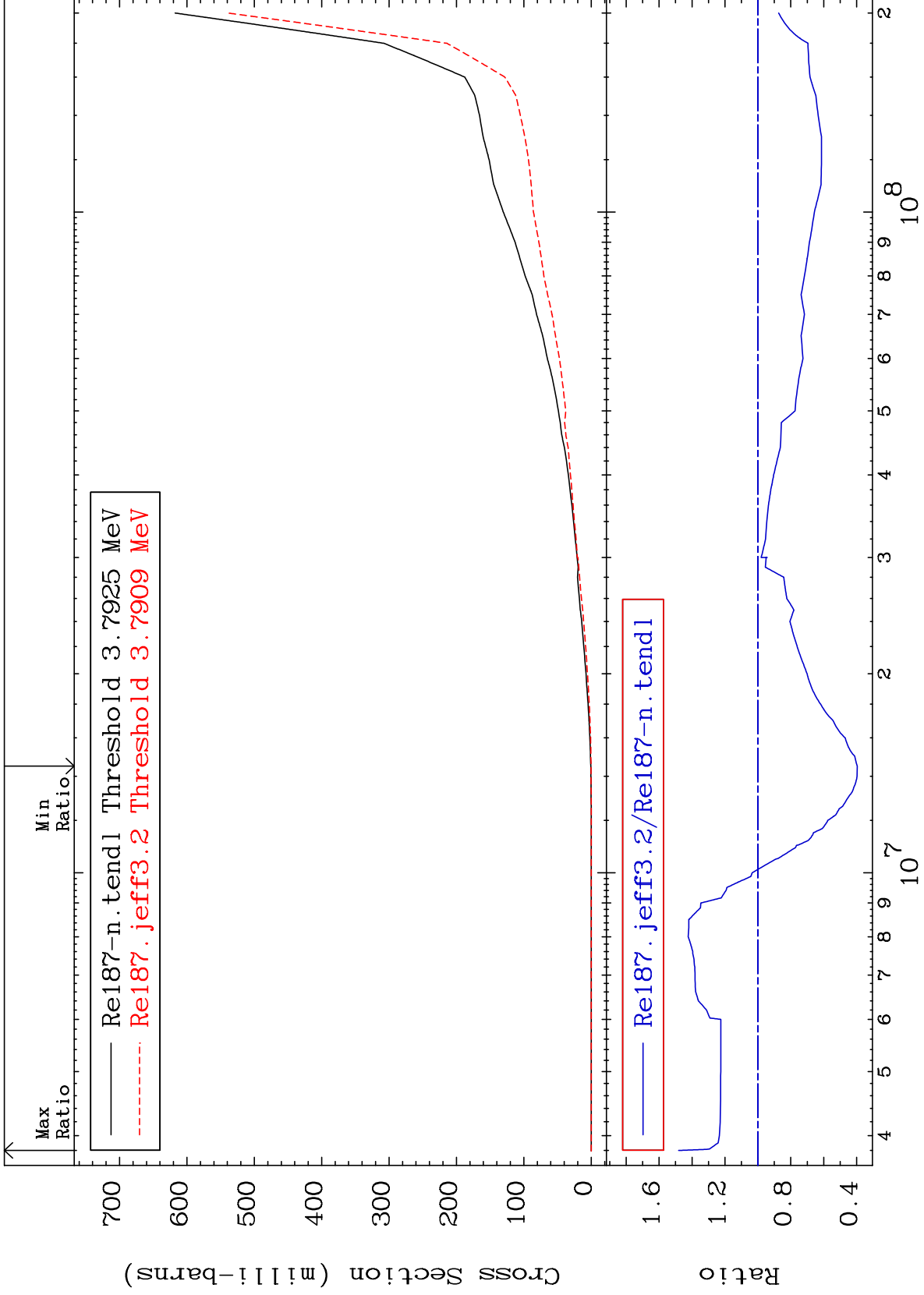
75-Re-187



MAT 7531

Deuterium Production
Cross Section

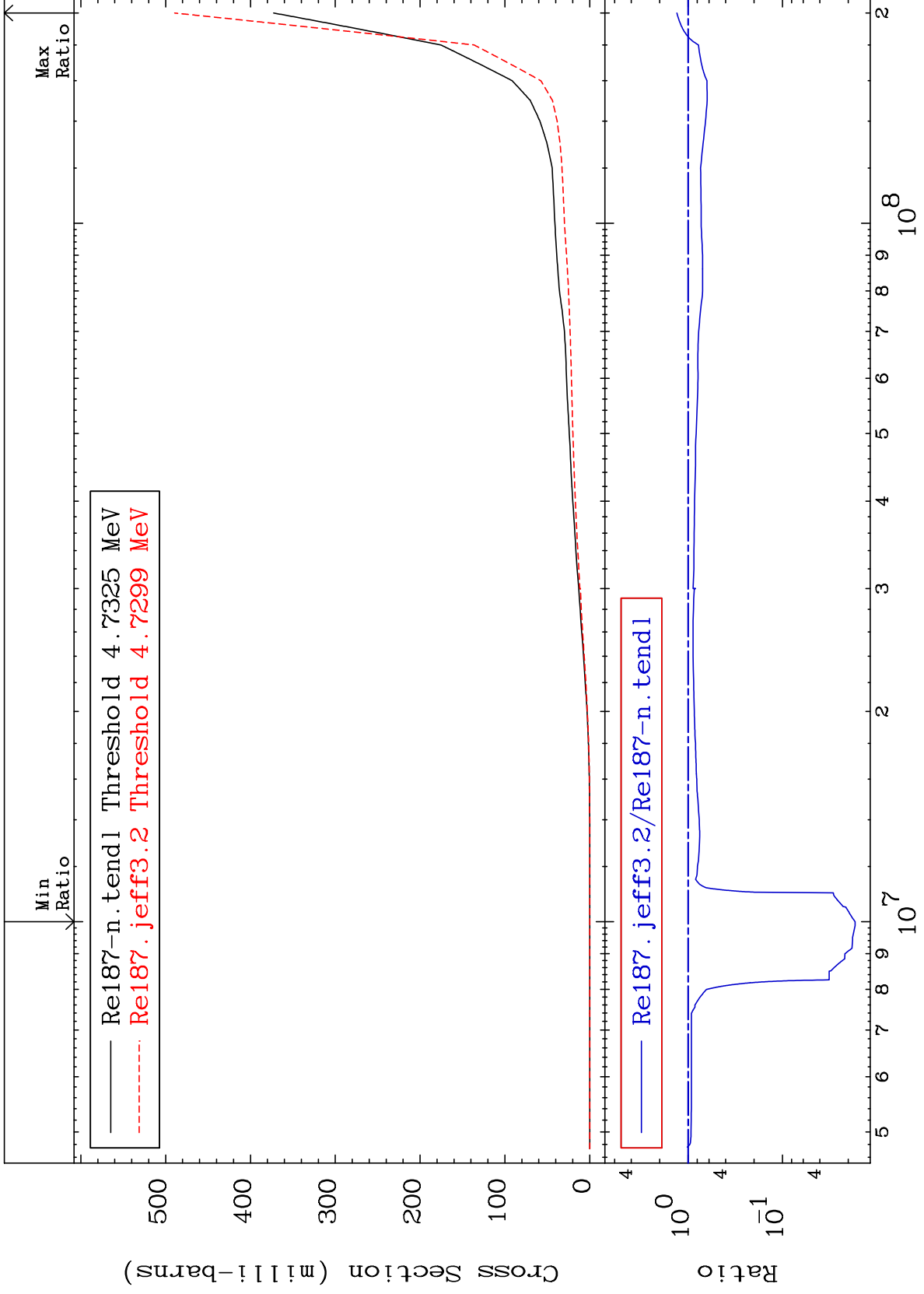
⁷⁵Re-¹⁸⁷Re
-60.39 To 48.13 %



MAT 7531

Tritium Production
Cross Section

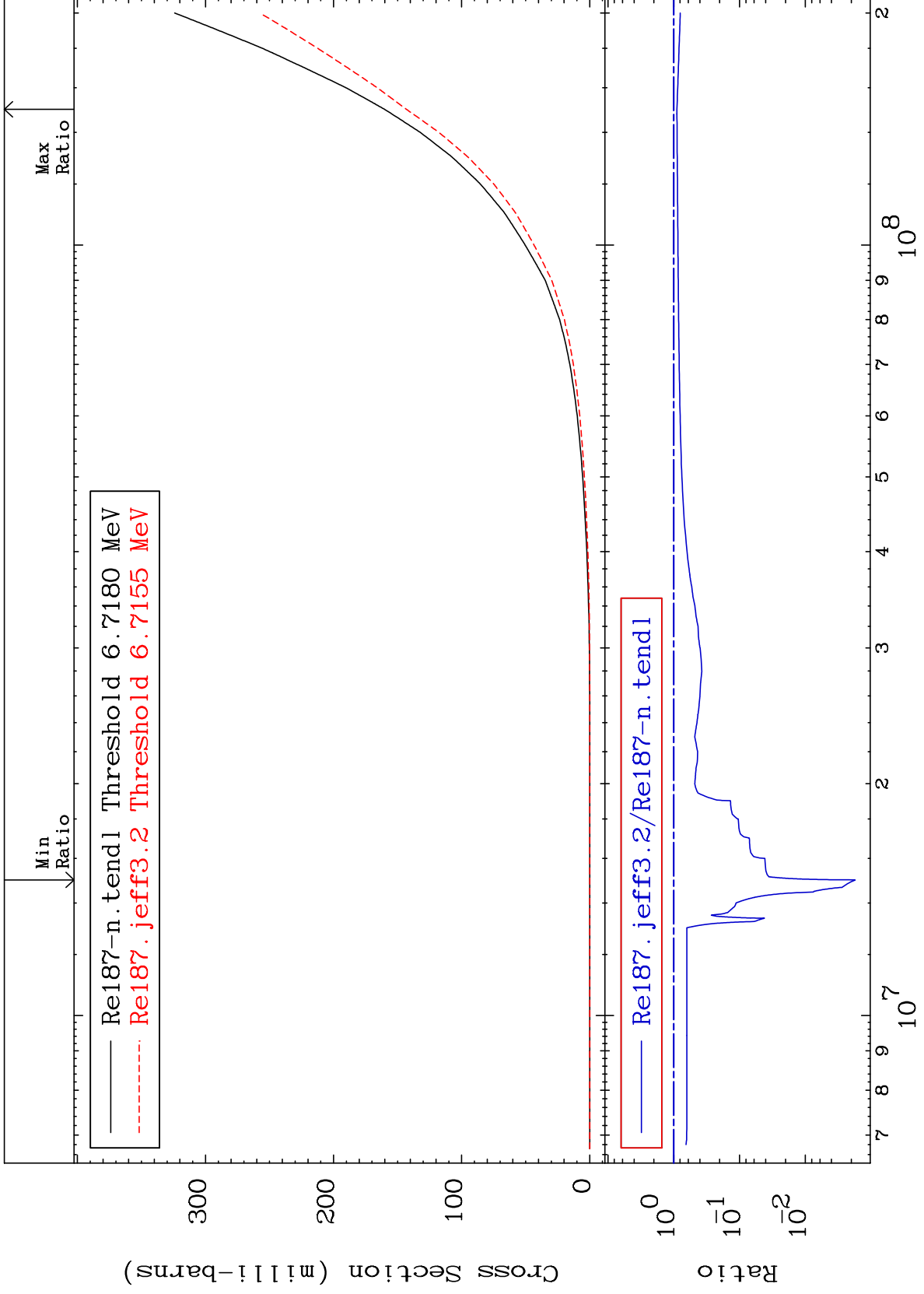
⁷⁵Re-¹⁸⁷
-98.31 To 31.35 %



MAT 7531

He-3 Production
Cross Section

⁷⁵Re-¹⁸⁷Re
-99.82 To -10.63%



64

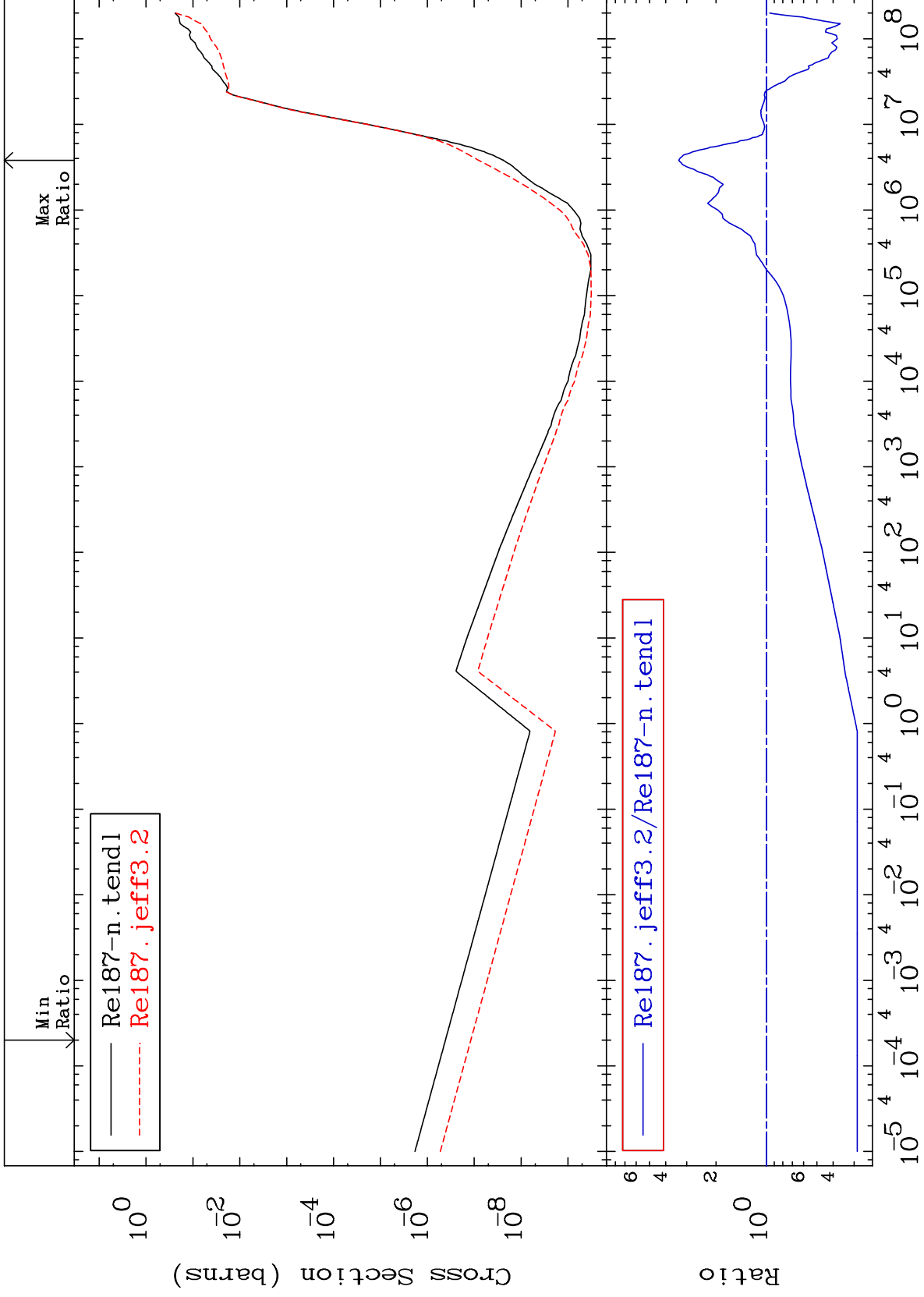
Incident Energy (eV)

⁷⁵Re-¹⁸⁷Re

MAT 7531

He-4 Production
Cross Section

⁷⁵Re-¹⁸⁷Re
-71.29 To 234.8 %



Incident Energy (eV)

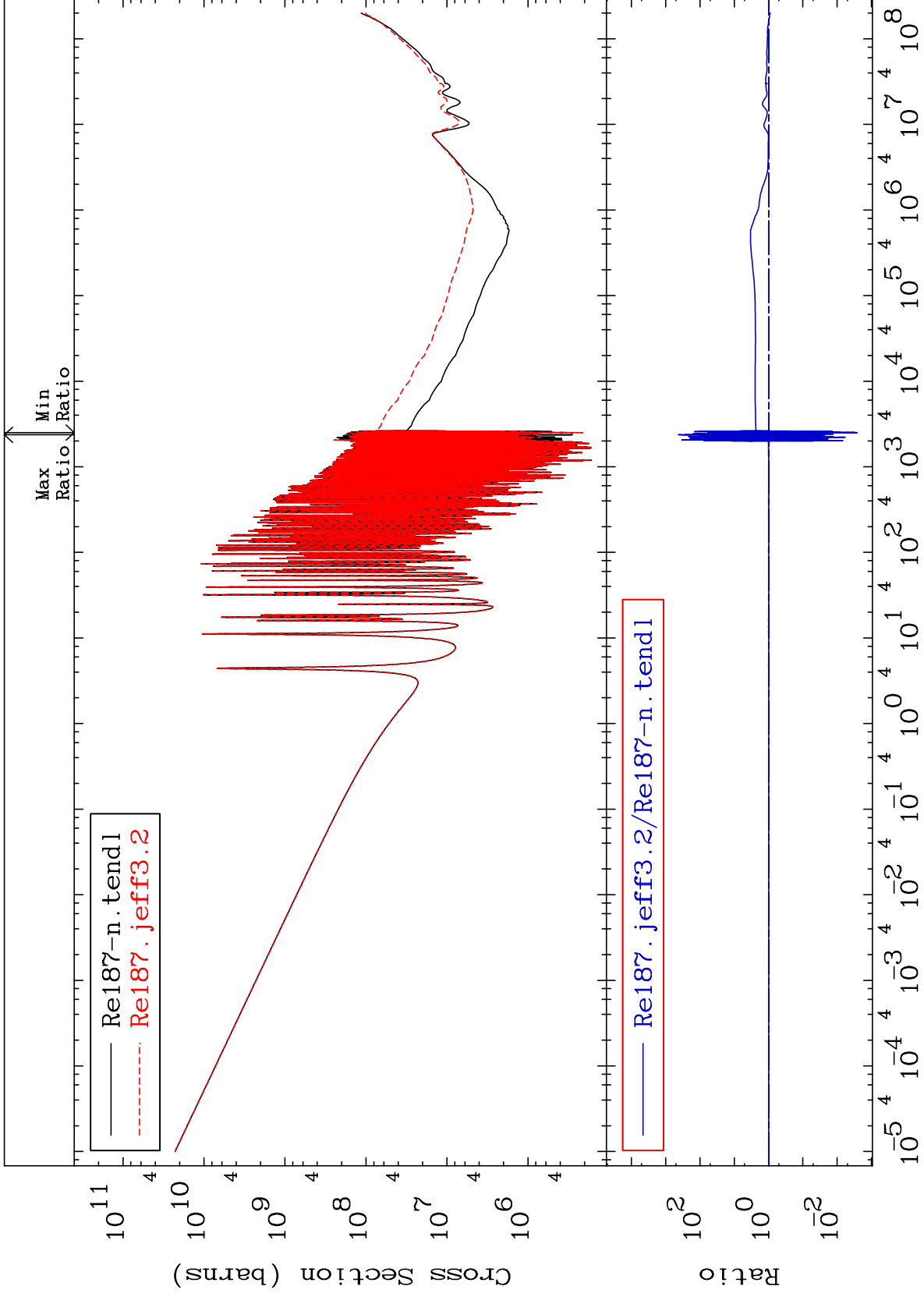
65

⁷⁵Re-¹⁸⁷Re

MAT 7531

Kerma total (eV-barns)
Cross Section

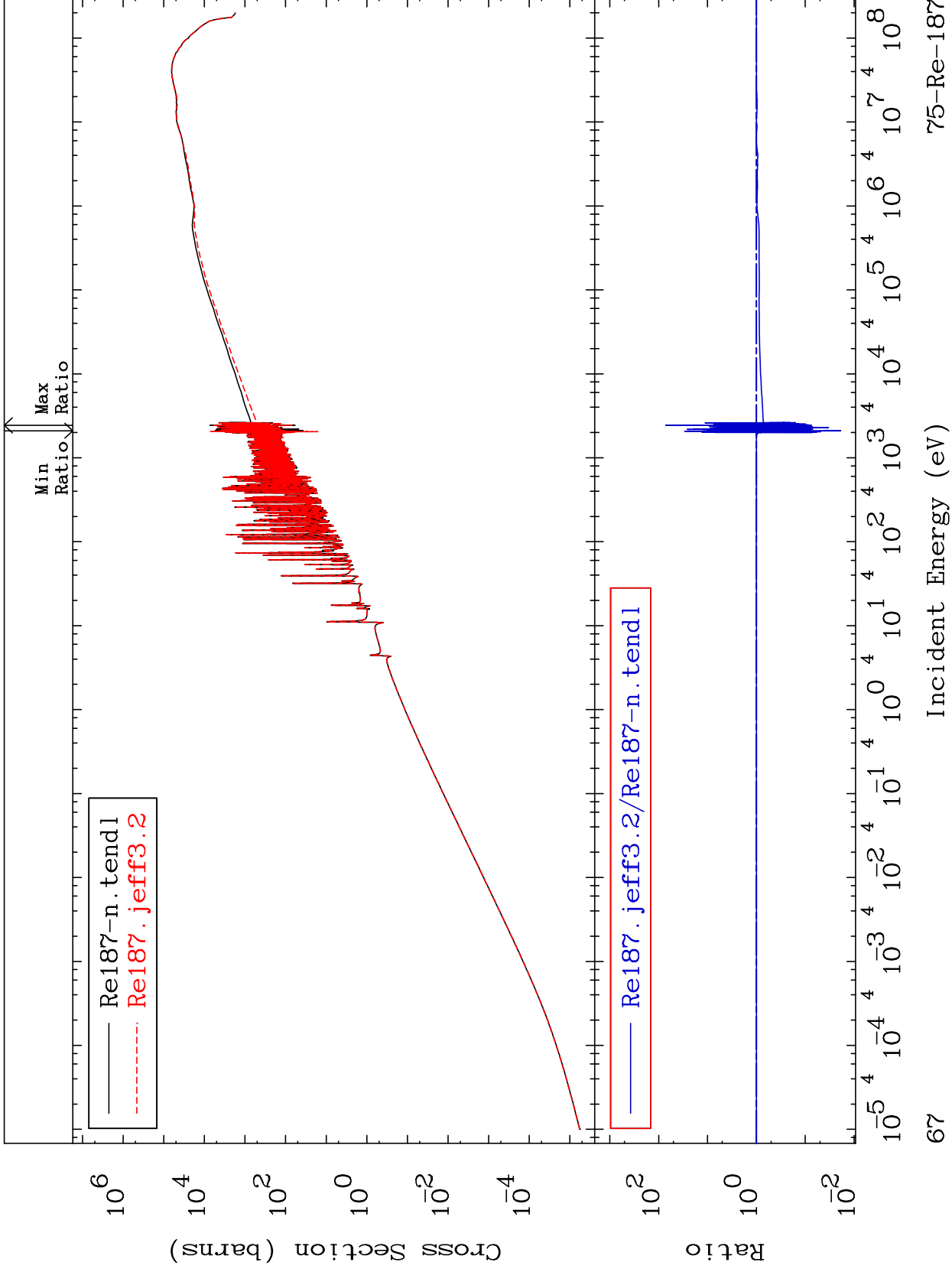
75-Re-187
-99.74 To 9999. %



MAT 7531

Kerma elastic
Cross Section

⁷⁵Re-¹⁸⁷
-98.11 To 7133. %



67

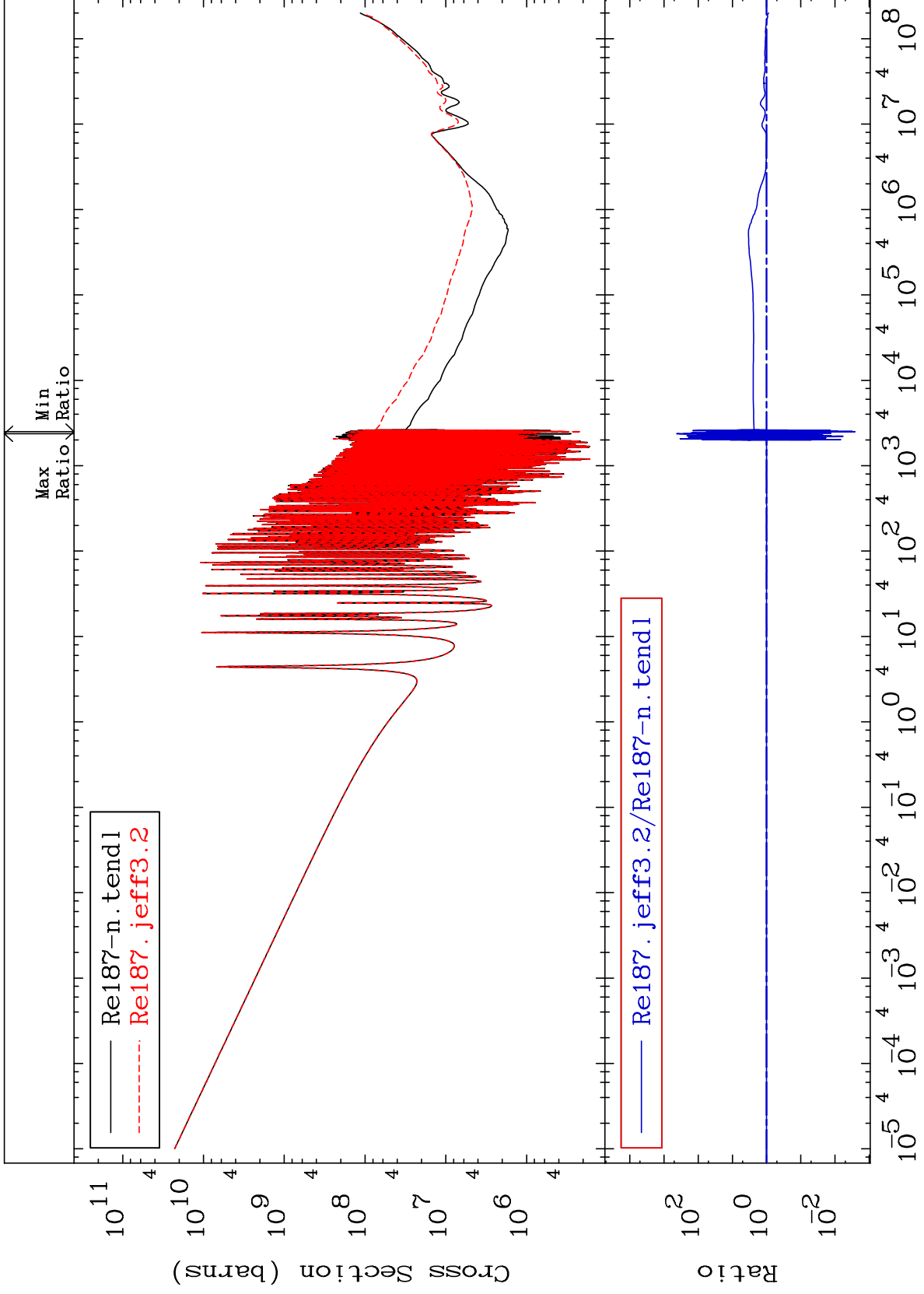
Incident Energy (eV)

⁷⁵Re-¹⁸⁷

MAT 7531

Kerma non-elastic (all but mt2)
Cross Section

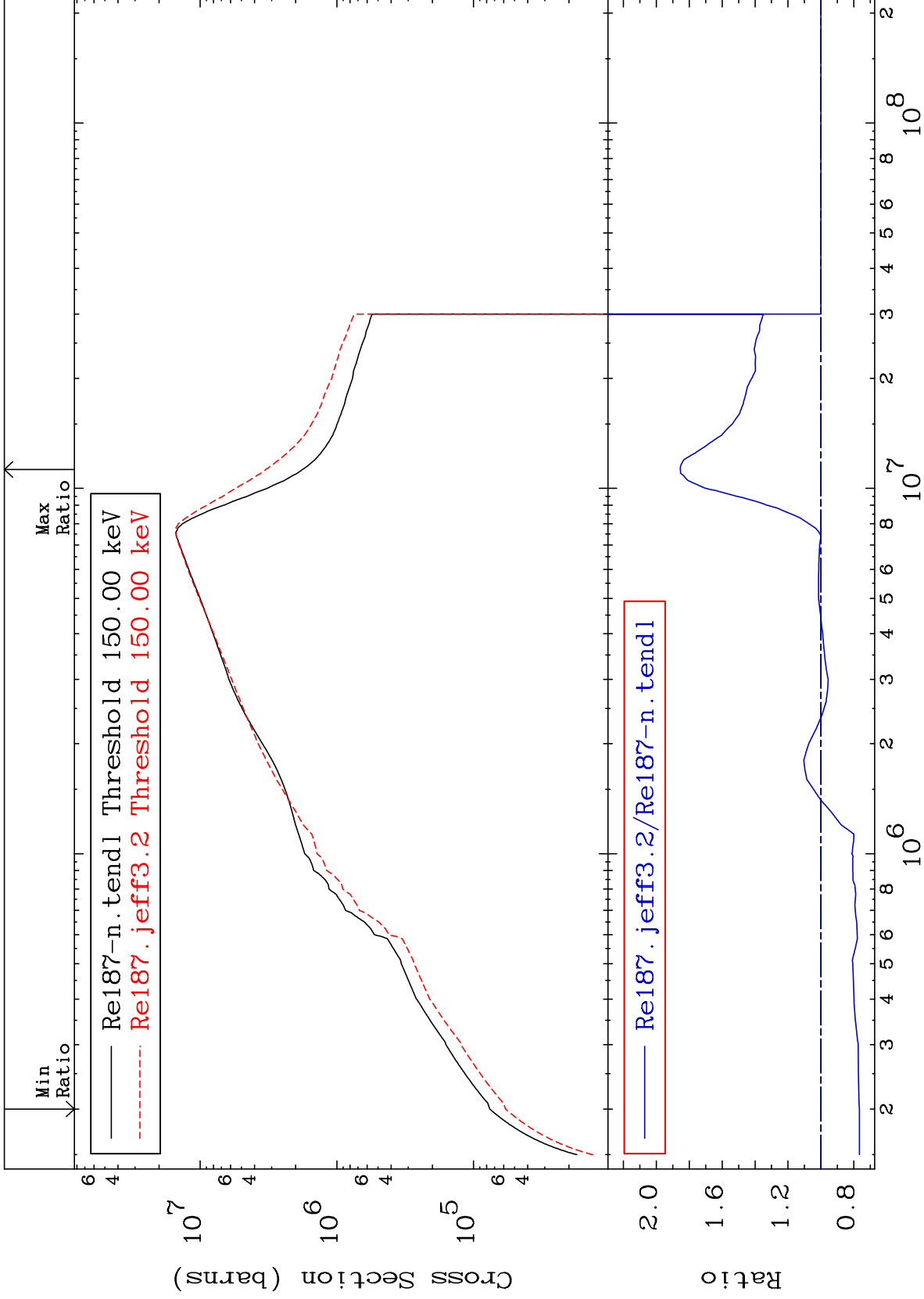
75-Re-187
-99.74 To 9999. %



MAT 7531

Kerma inelastic (mt51-91)
Cross Section

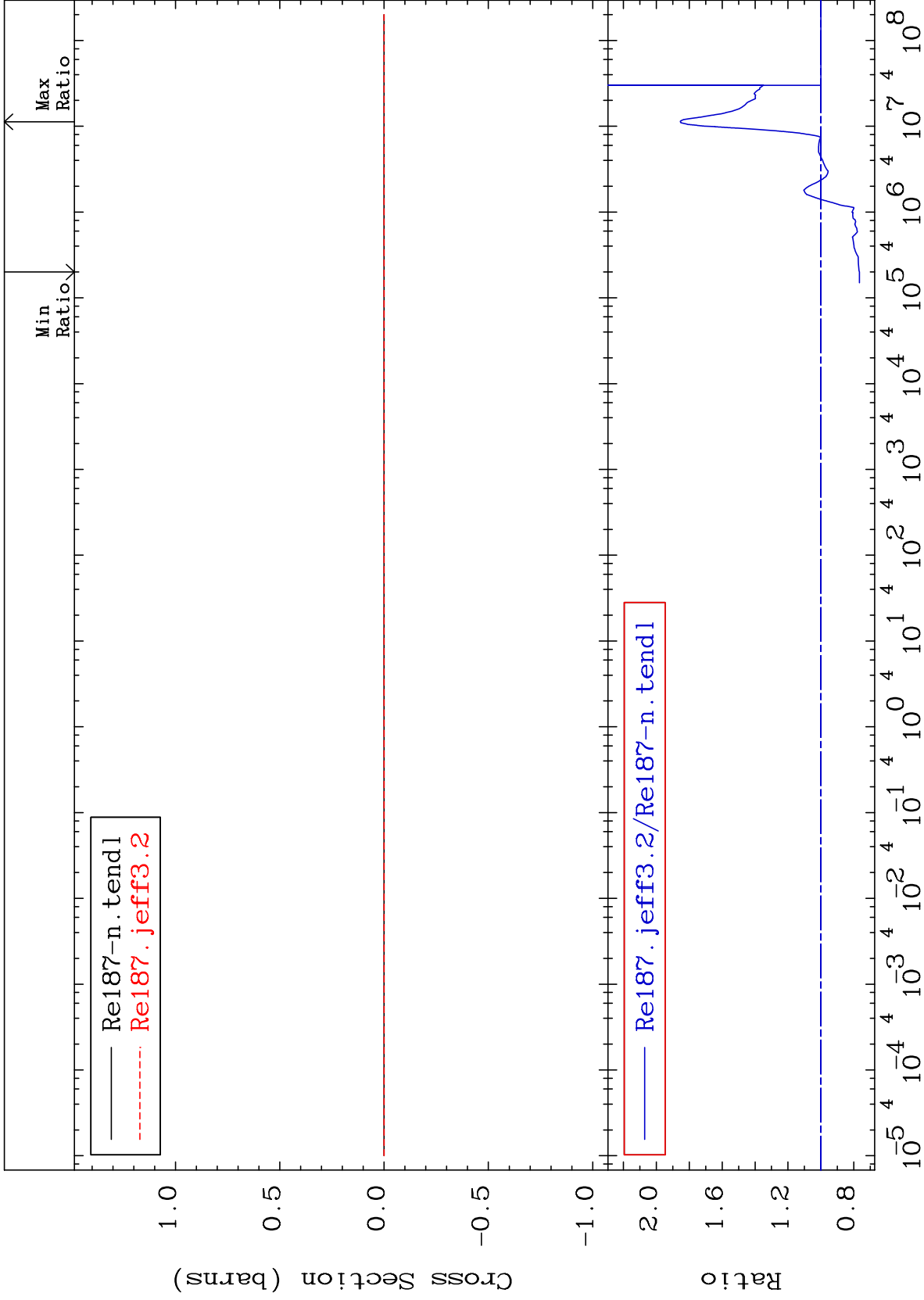
75-Re-187
-23.40 To 85.40 %



MAT 7531

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

75-Re-187
-23.40 To 85.40 %



70

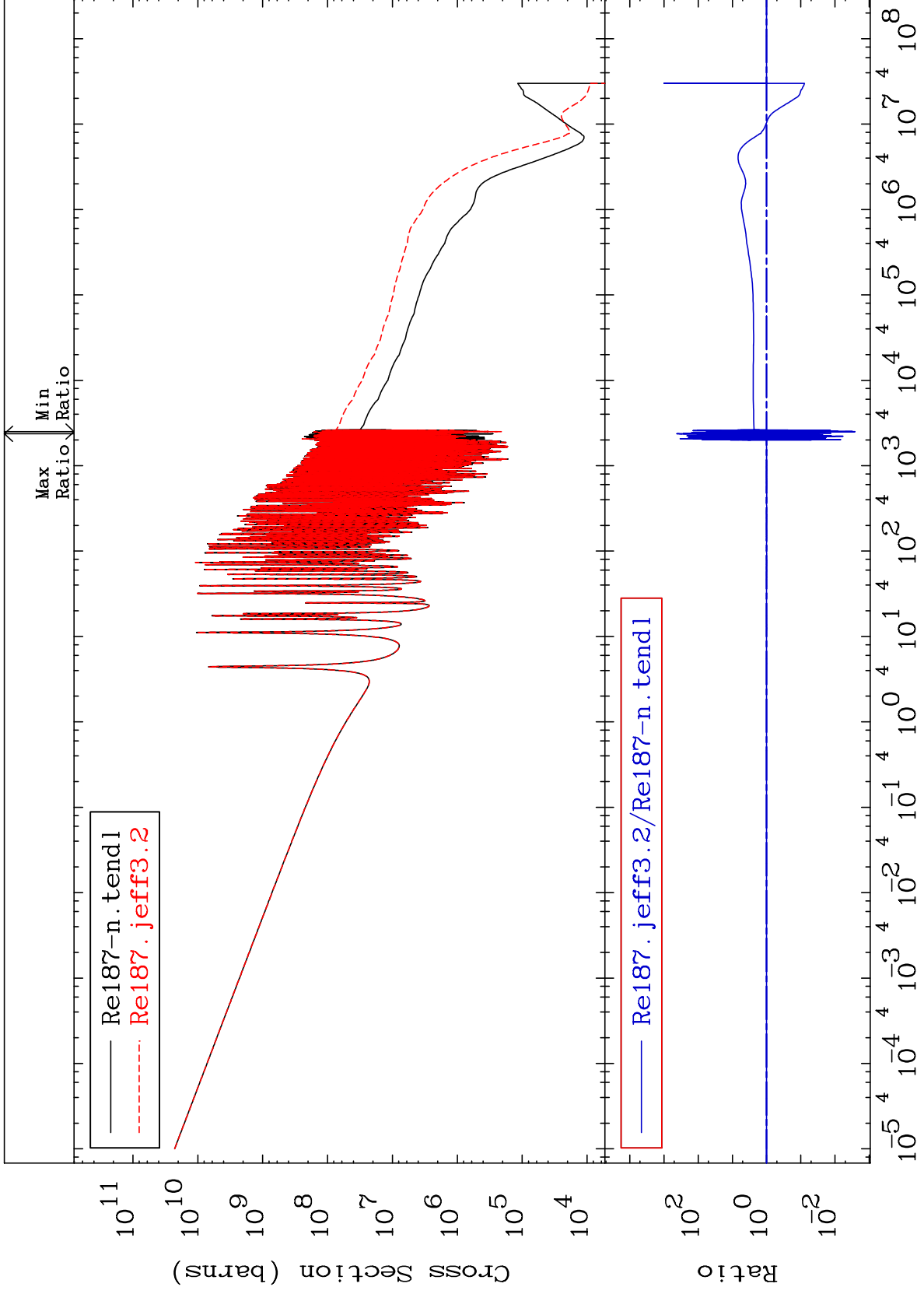
Incident Energy (eV)

75-Re-187

MAT 7531

Kerma capture (mt102)
Cross Section

75-Re-187
-99.74 To 9999. %



71

Incident Energy (eV)

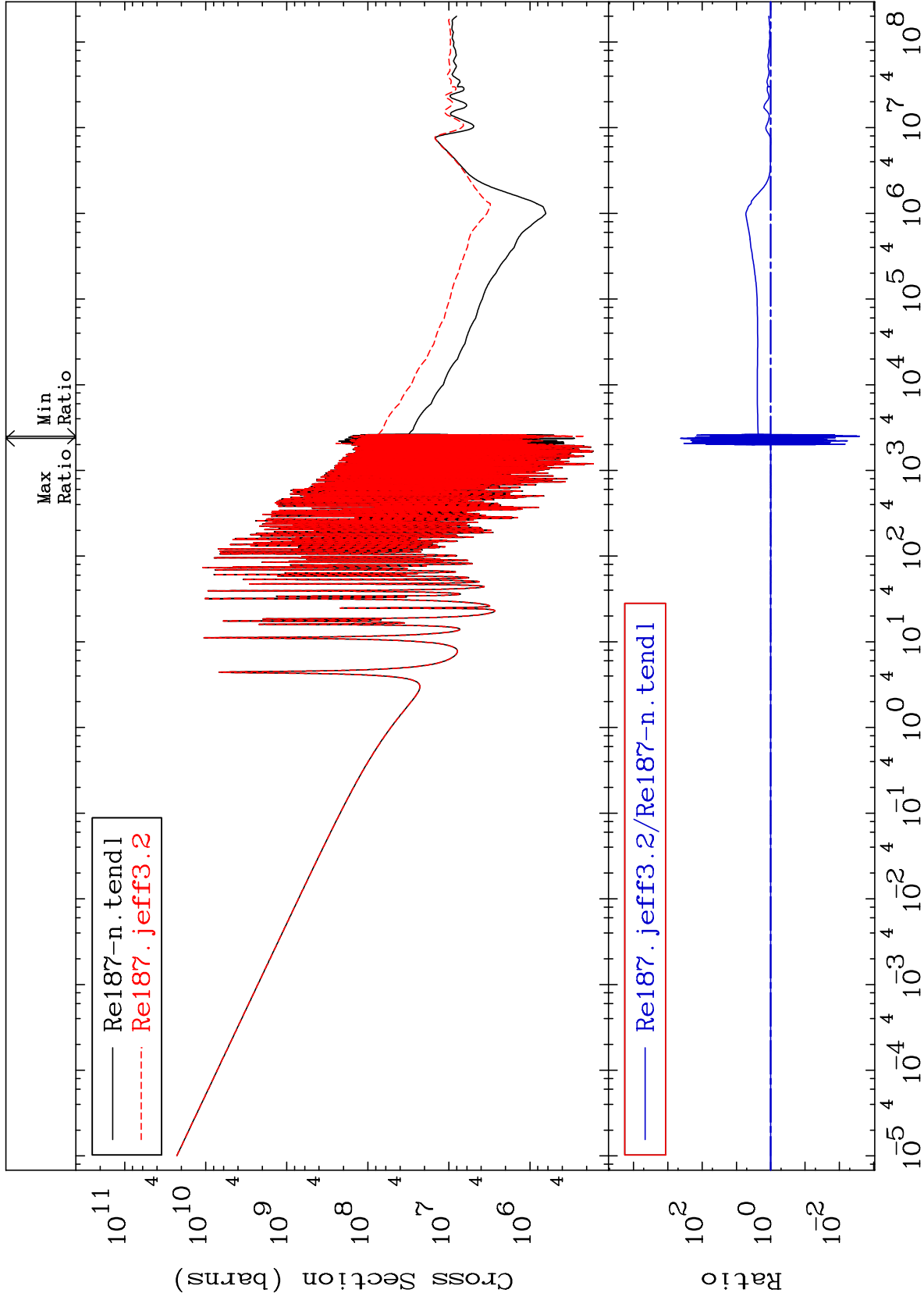
75-Re-187

MAT 7531

Total photon (eV-barns)
Cross Section

⁷⁵Re-¹⁸⁷

-99.74 To 9999. %



72

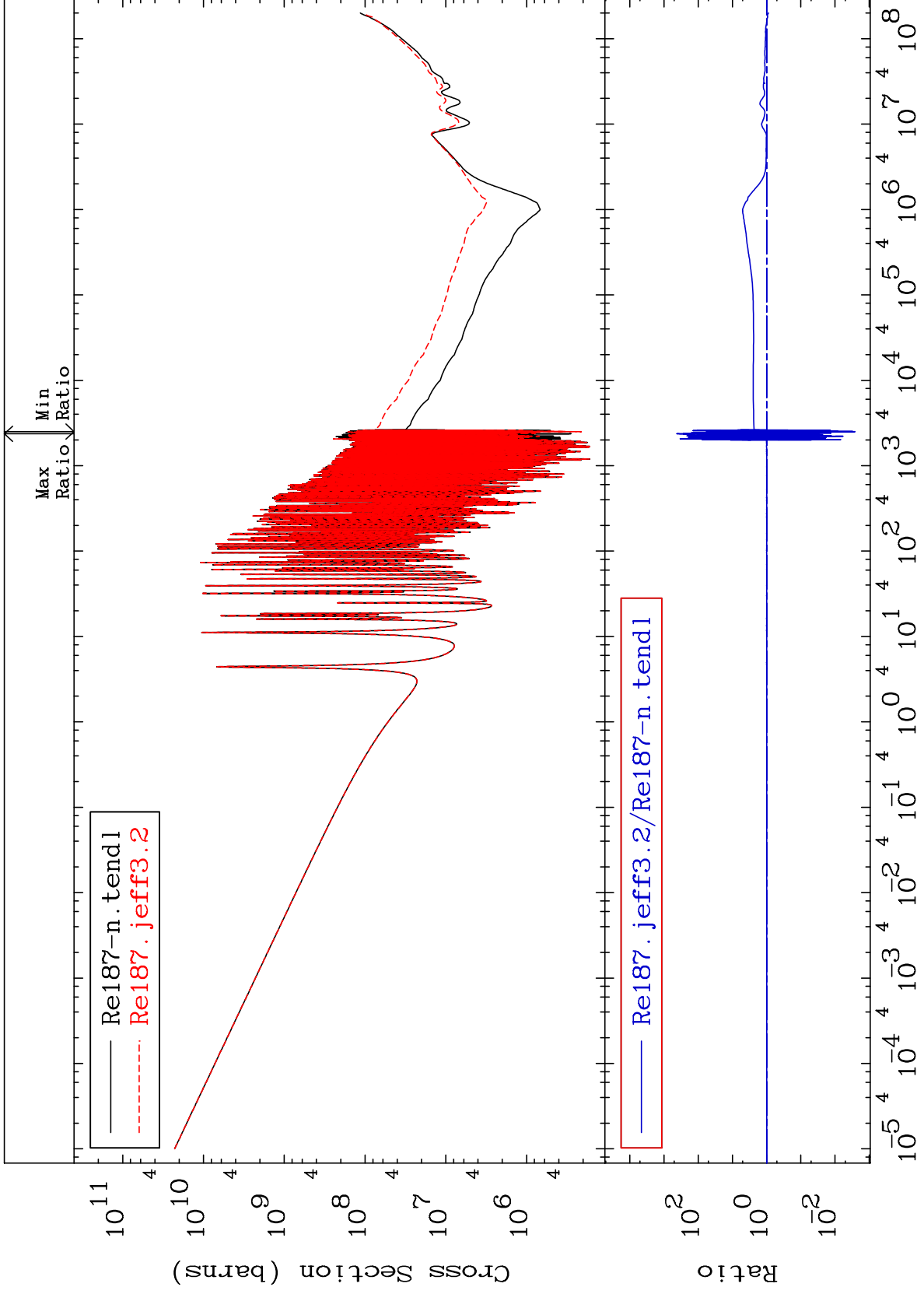
Incident Energy (eV)

⁷⁵Re-¹⁸⁷

MAT 7531

Total kinematic kerma (high limit)
Cross Section

75-Re-187
-99.74 To 9999. %



73

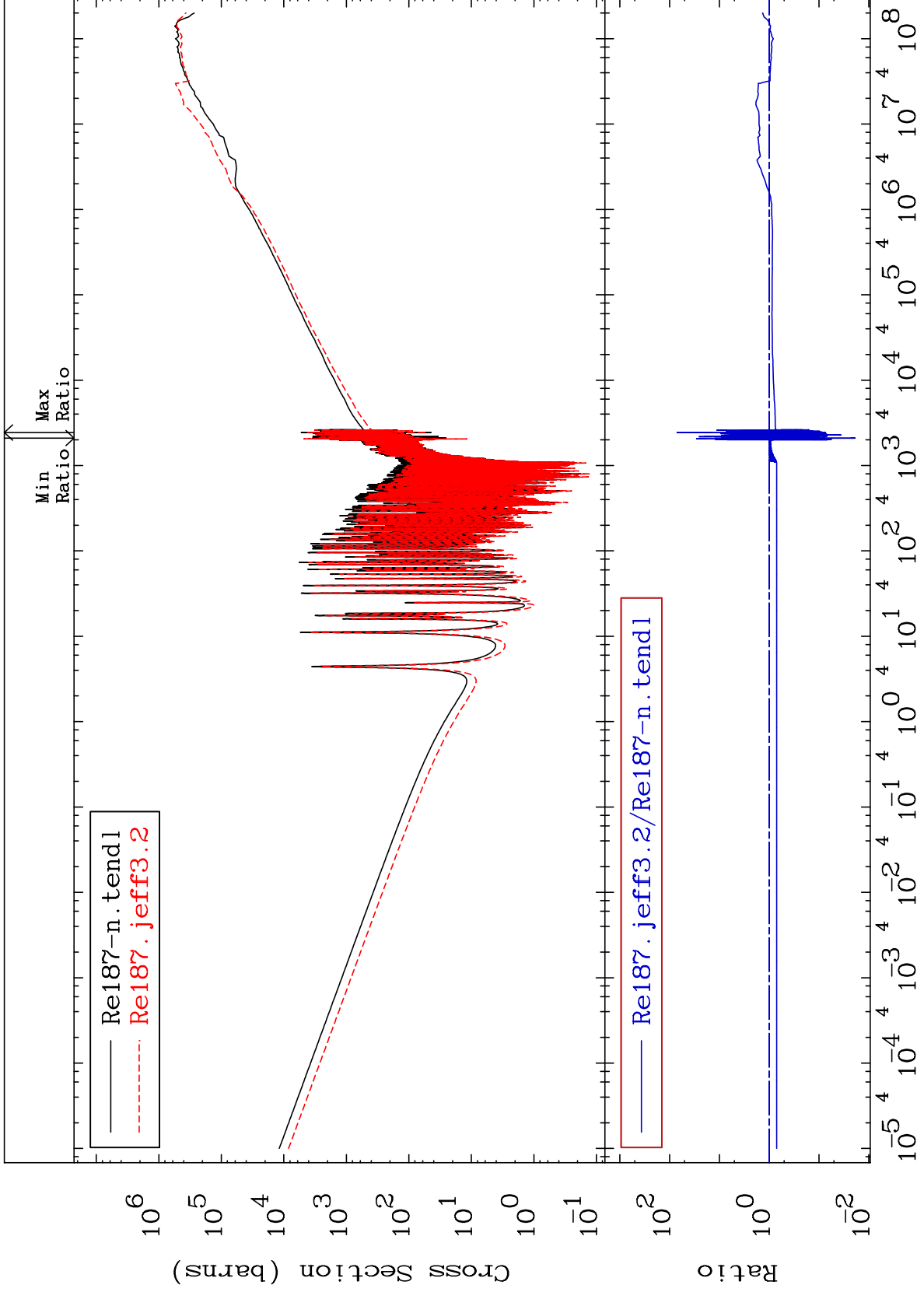
Incident Energy (eV)

75-Re-187

MAT 7531

Dpa total (eV-barns)
Cross Section

75-Re-187
-98.11 To 7028. %



74

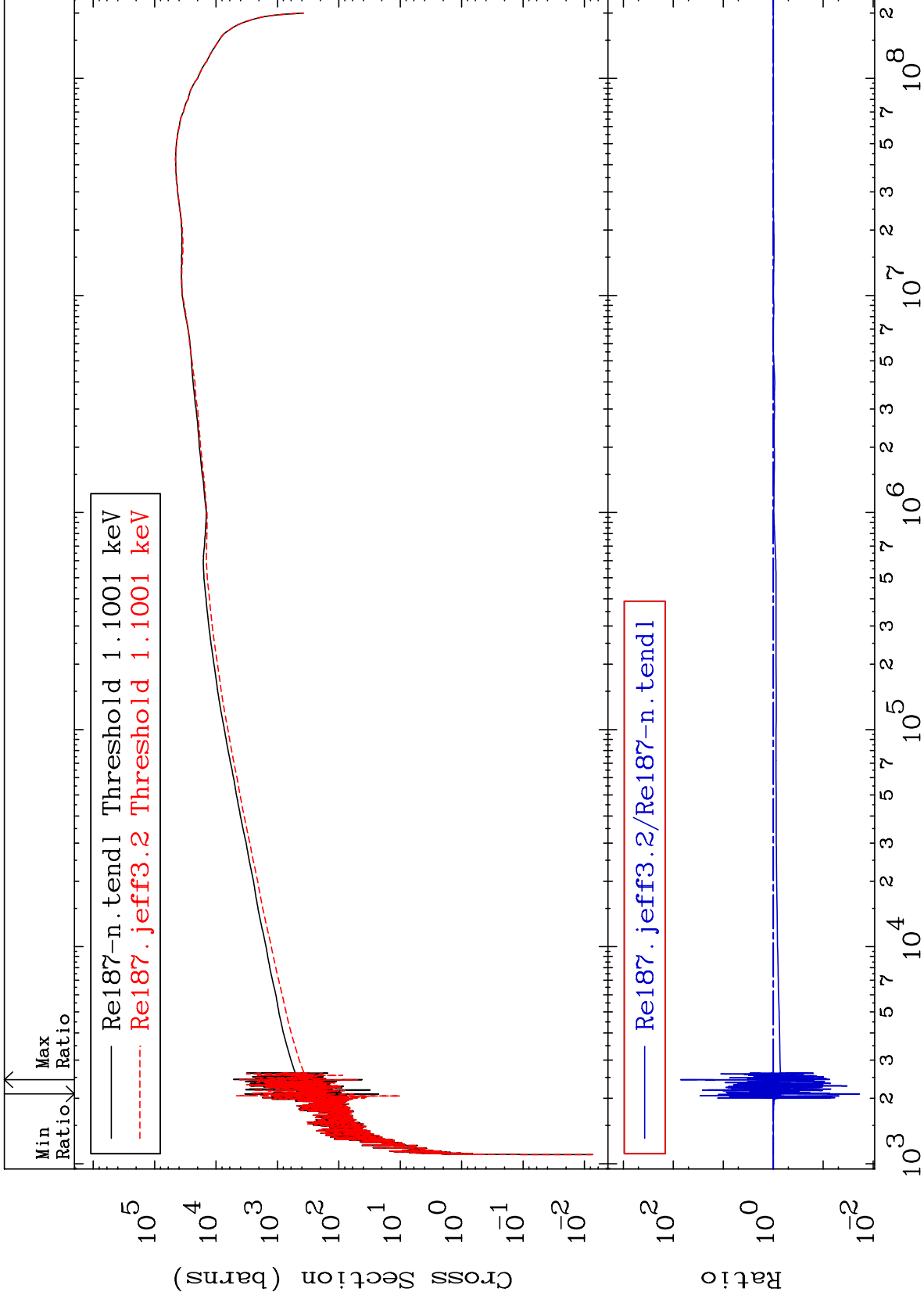
Incident Energy (eV)

75-Re-187

MAT 7531

Dpa elastic (mt2)
Cross Section

75-Re-187
-98.11 To 7132. %



75

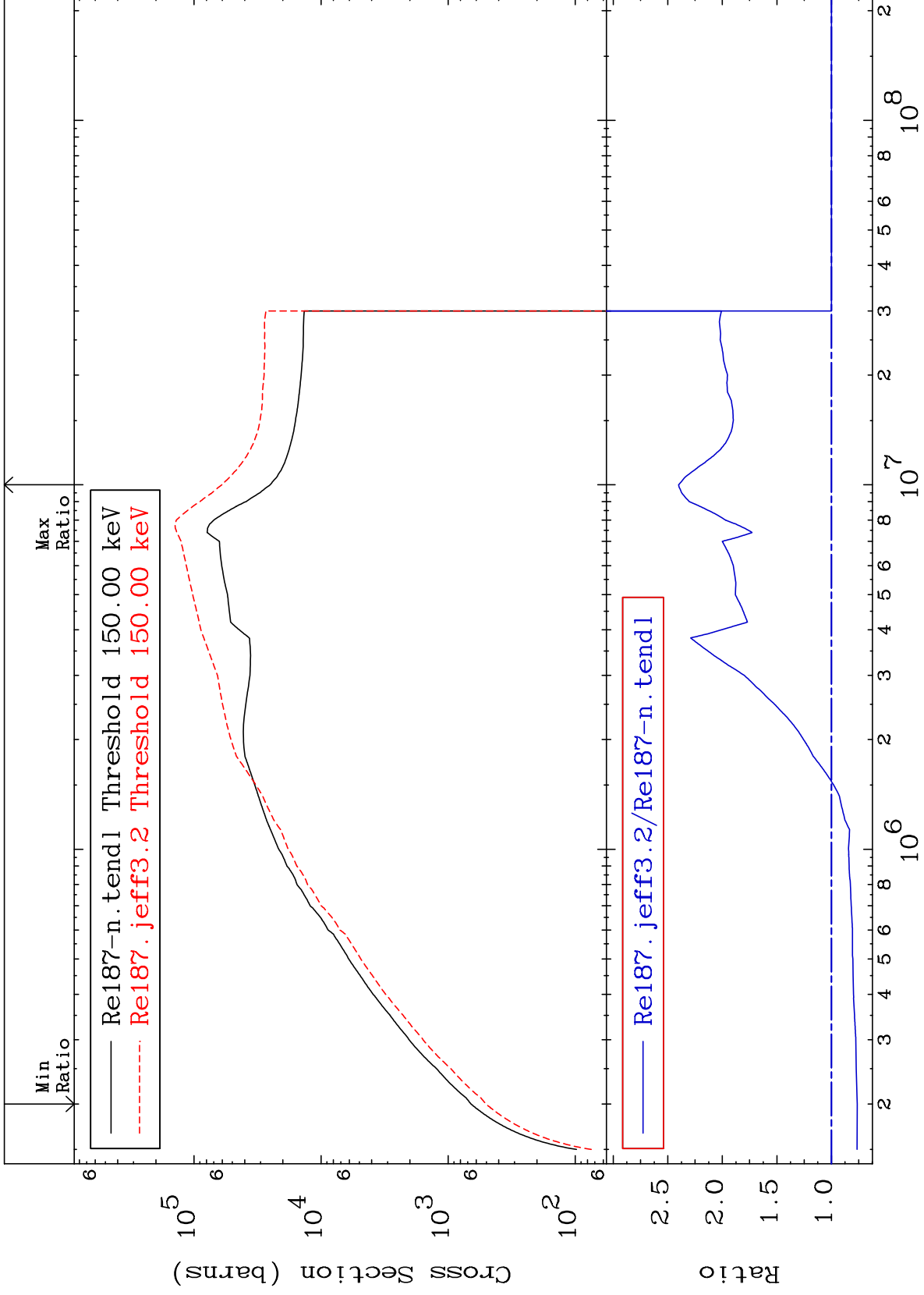
Incident Energy (eV)

75-Re-187

MAT 7531

Dpa inelastic (mt51-91)
Cross Section

75-Re-187
-23.71 To 140.1 %



76

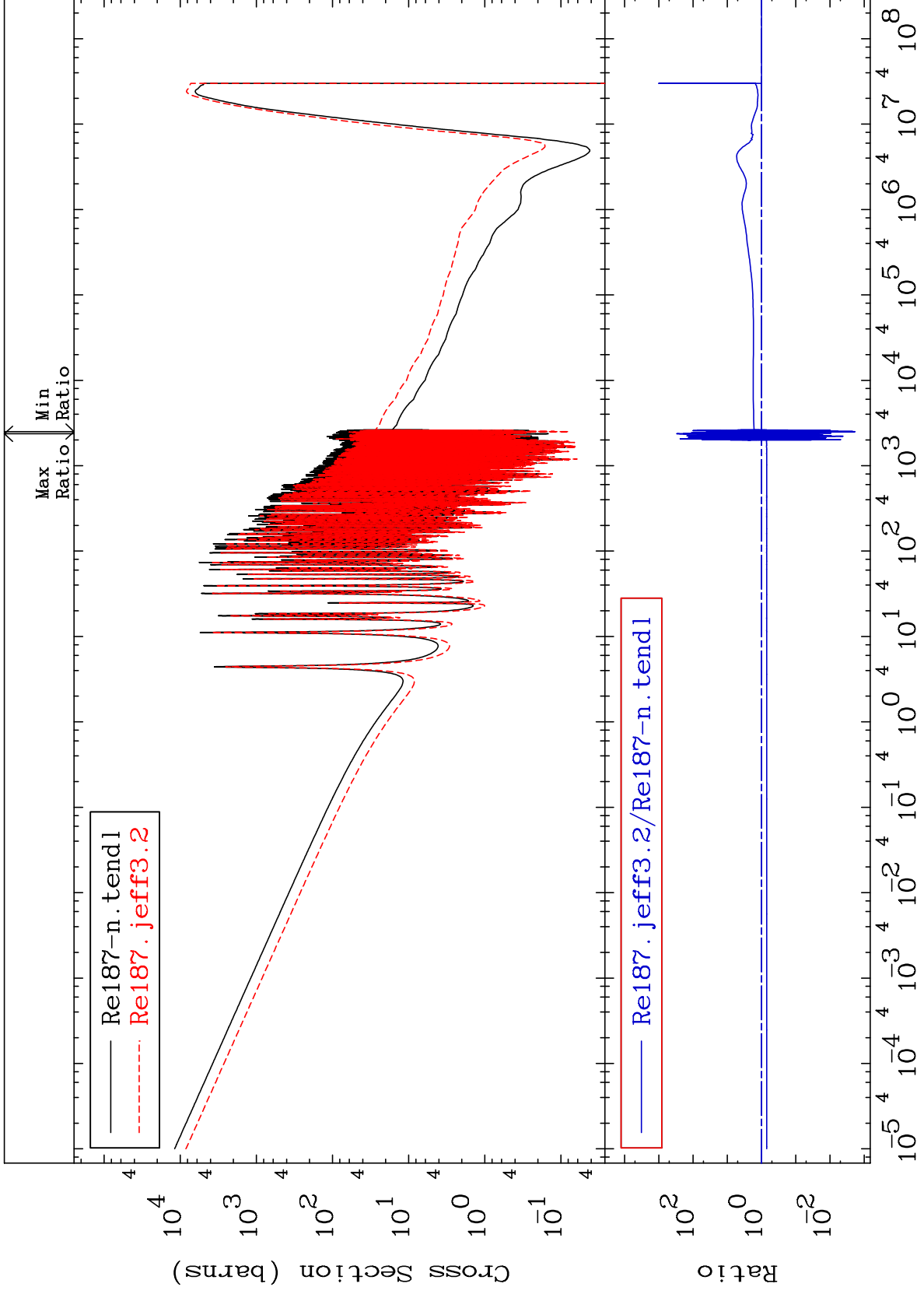
Incident Energy (eV)

75-Re-187

MAT 7531

Dpa disappearance (mt102 -120)
Cross Section

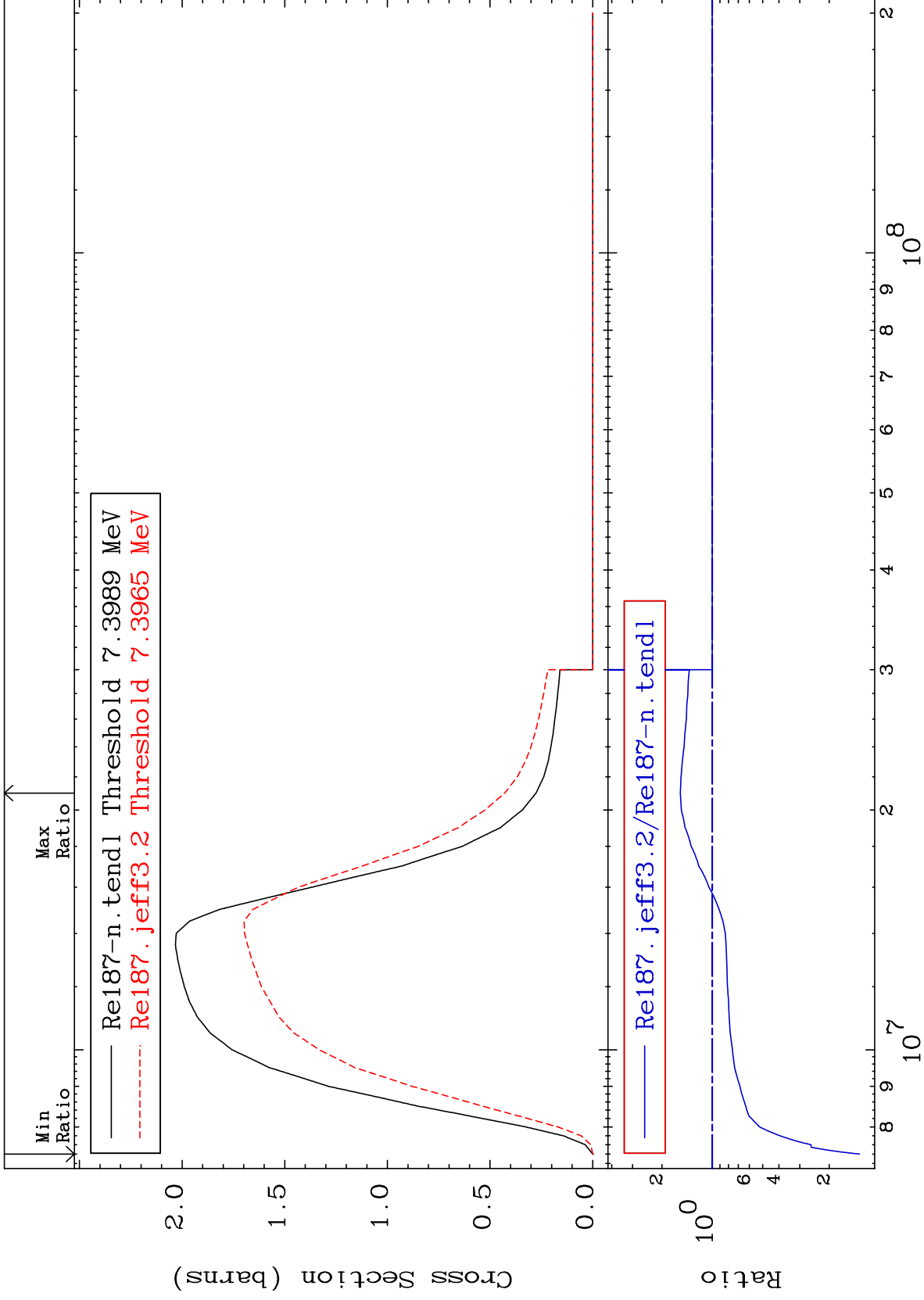
75-Re-187
-99.82 To 9999. %



77

Incident Energy (eV)

75-Re-187

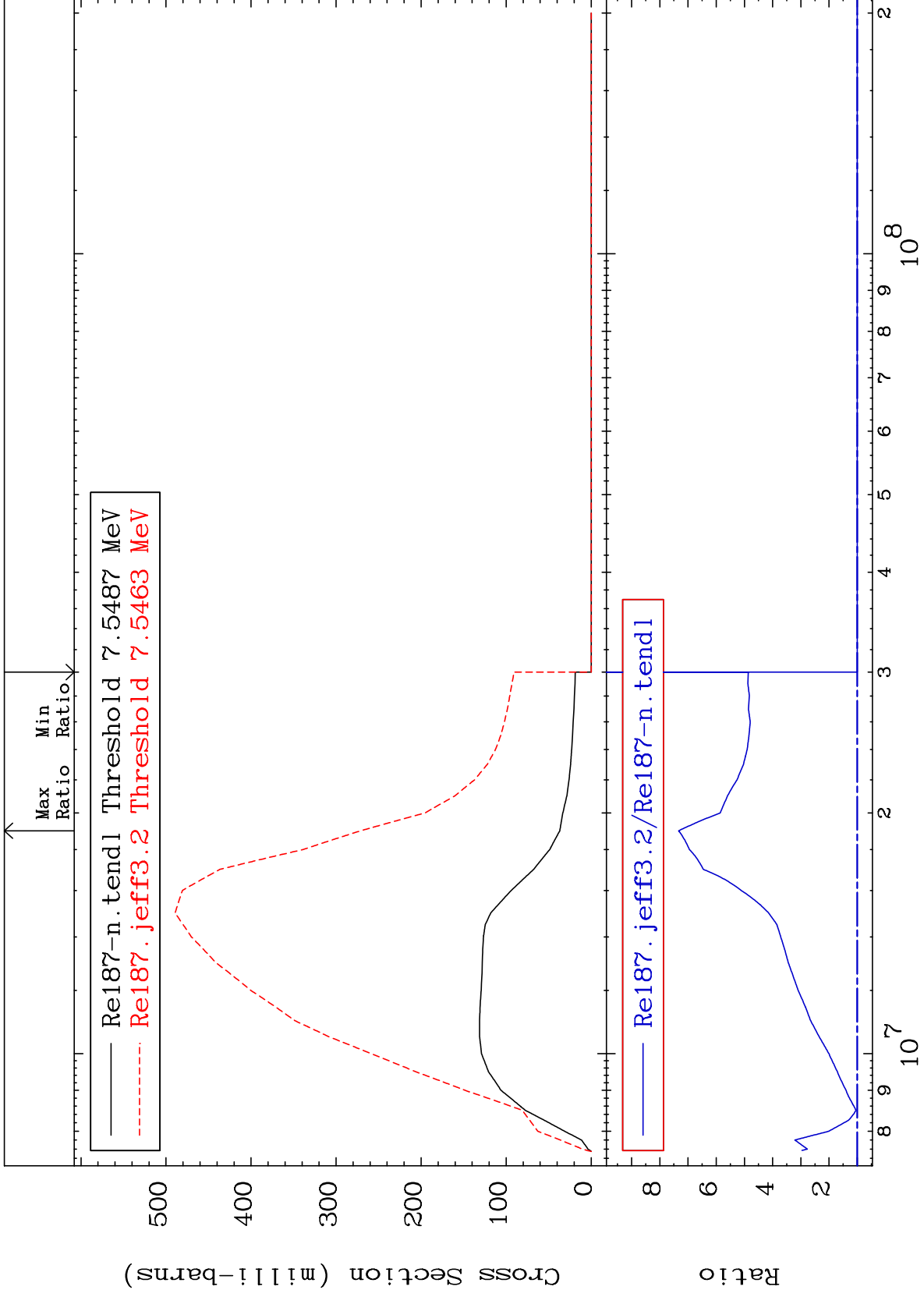


MAT 7531

(n,2n):75-Re-186m4

75-Re-187

Radionuclide Production Cross Section 0.000 To 633.2 %



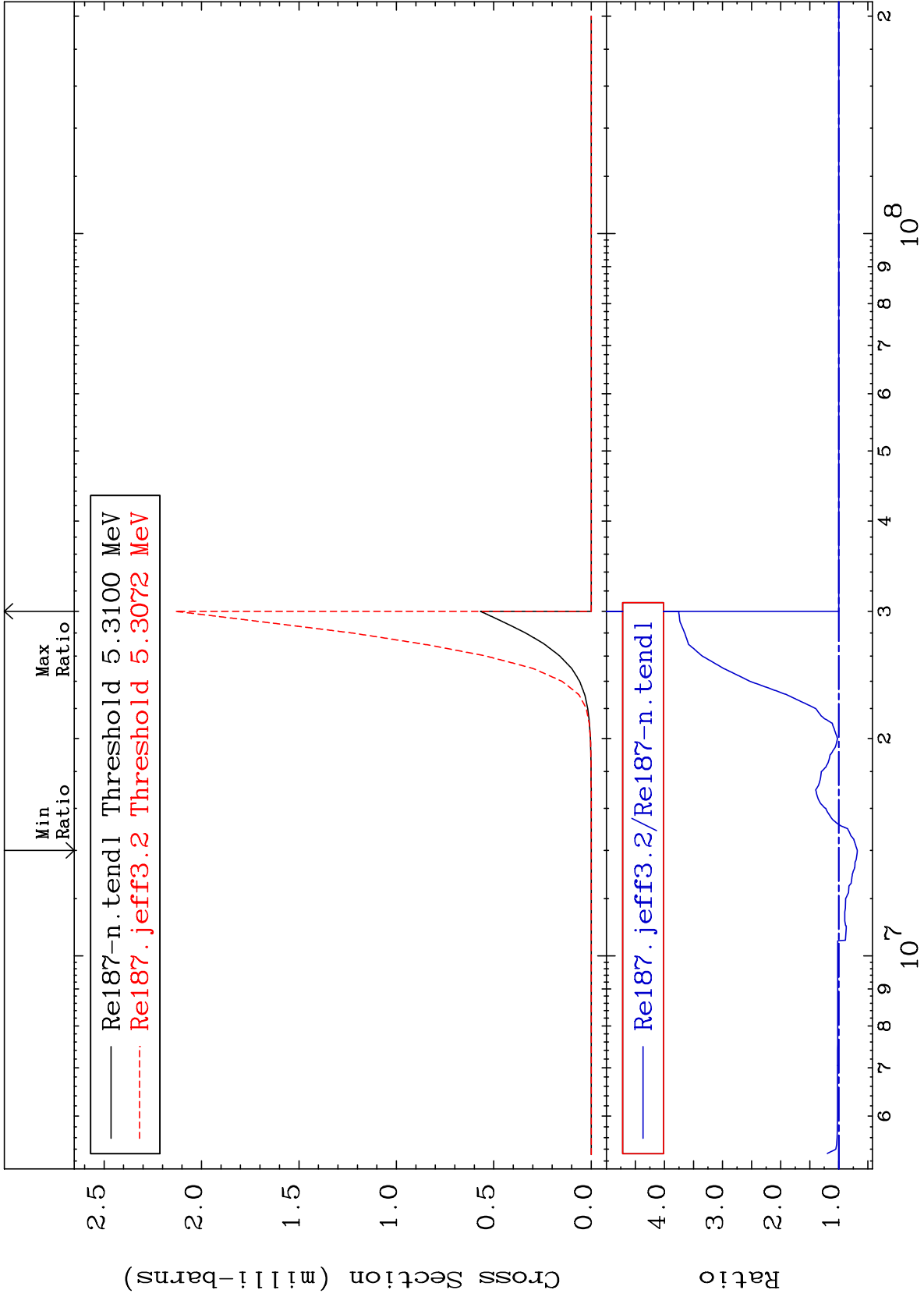
79

Incident Energy (eV)

75-Re-187

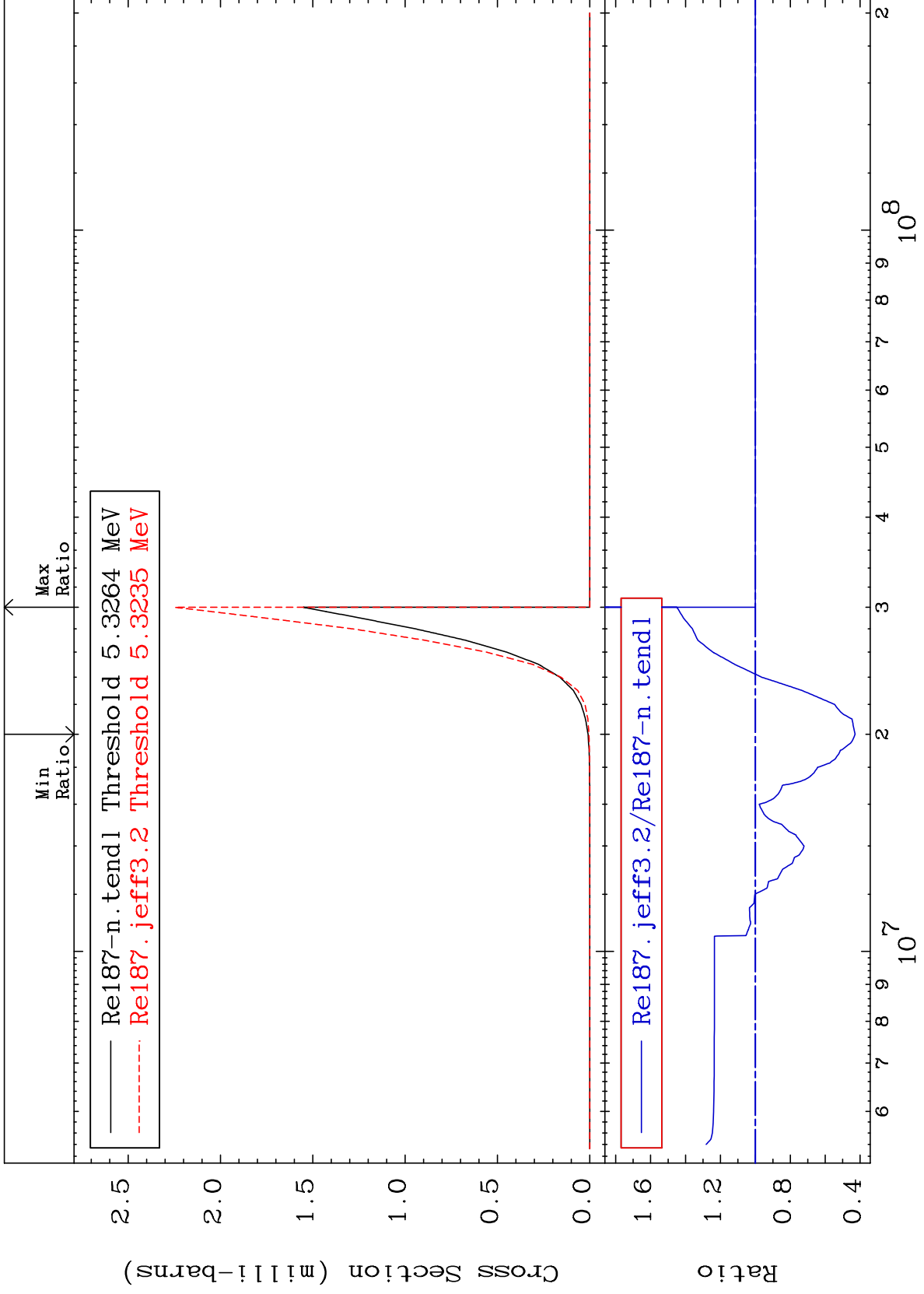
MAT 7531

(n,2n) α : 73-Ta-182g 75-Re-187
Radionuclide Production Cross Section -31.75 To 275.5 %



MAT 7531

(n,2n) α : 73-Ta-182m1 75-Re-187
Radionuclide Production Cross Section -57.10 To 44.94 %

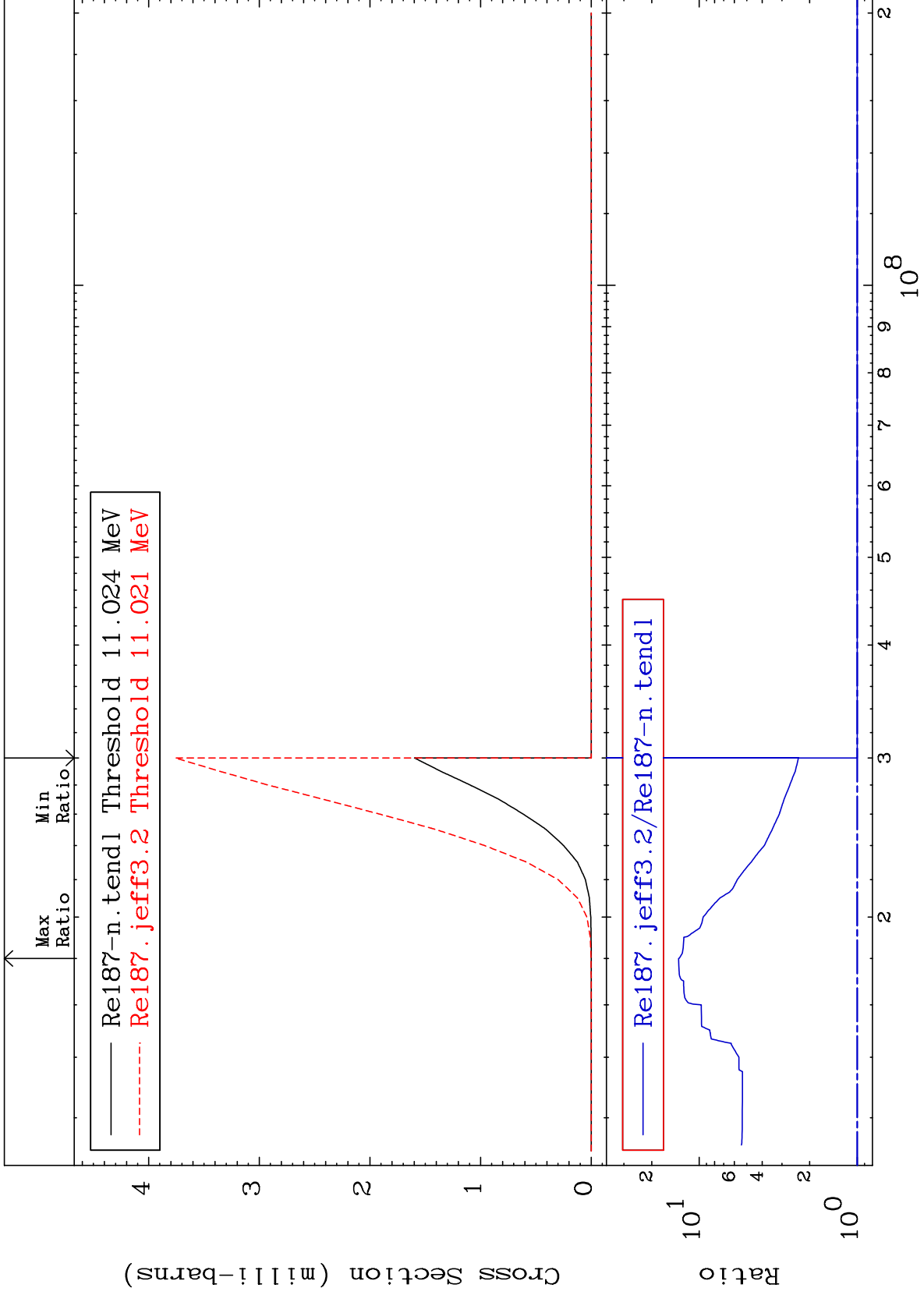


MAT 7531

(n, n') d: 74-W -185g

75-Re-187
To 1250. %

Radionuclide Production Cross Section 0.000

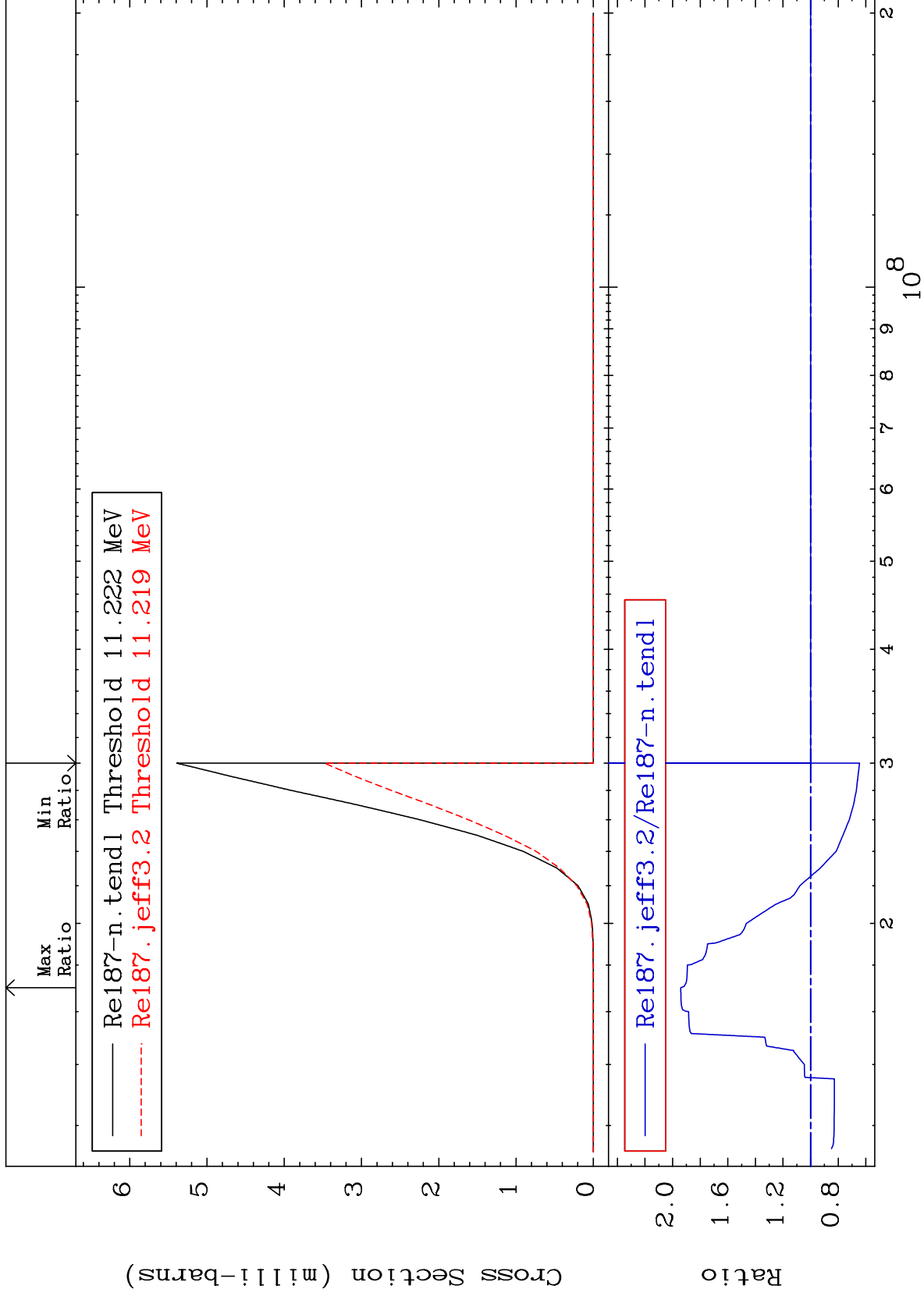


MAT 7531

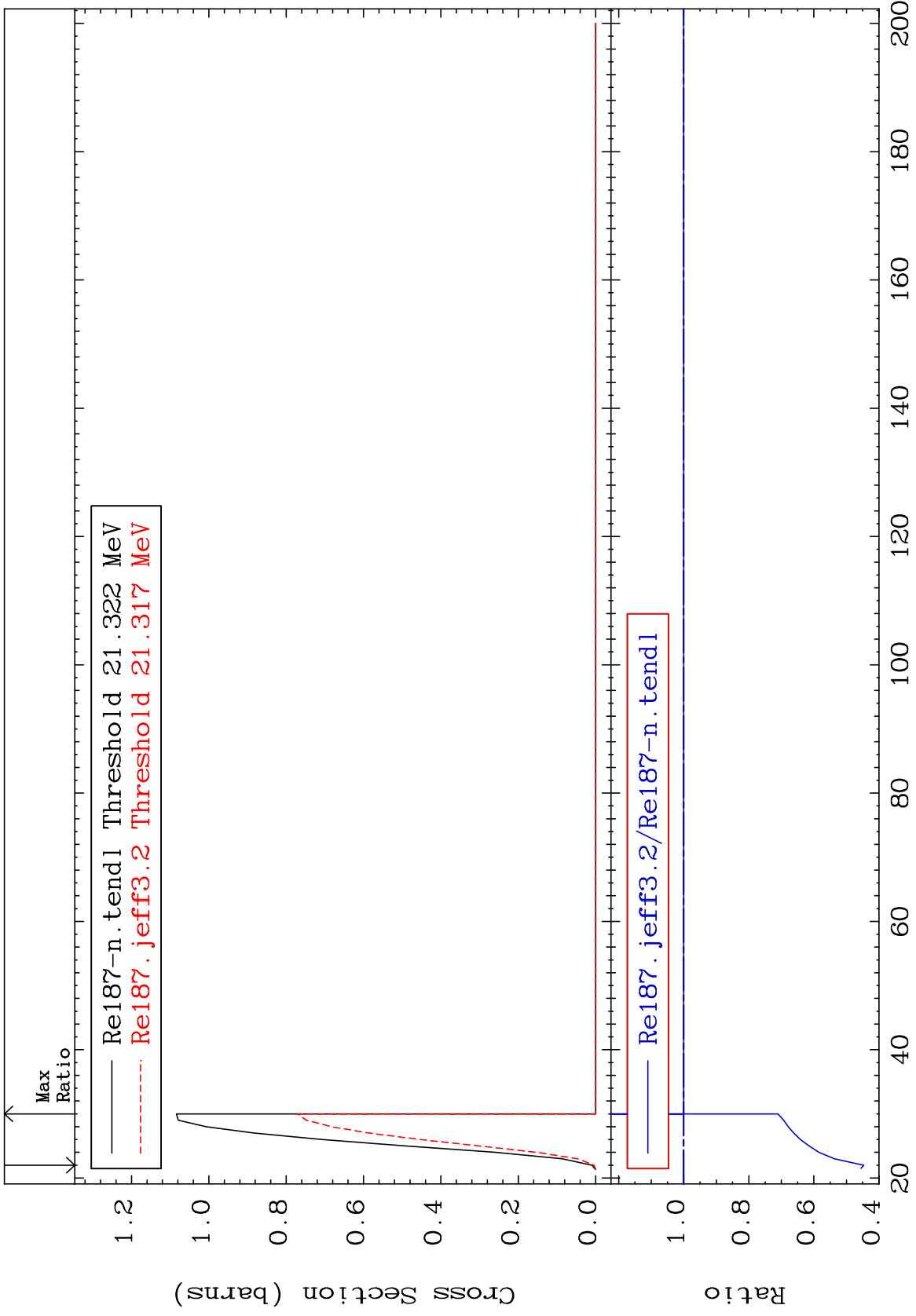
(n, n') d: 74-W -185m6

75-Re-187

Radionuclide Production Cross Section -35.44 To 94.09 %



Radionuclide Production Cross Section -55.29 To 0.000 %

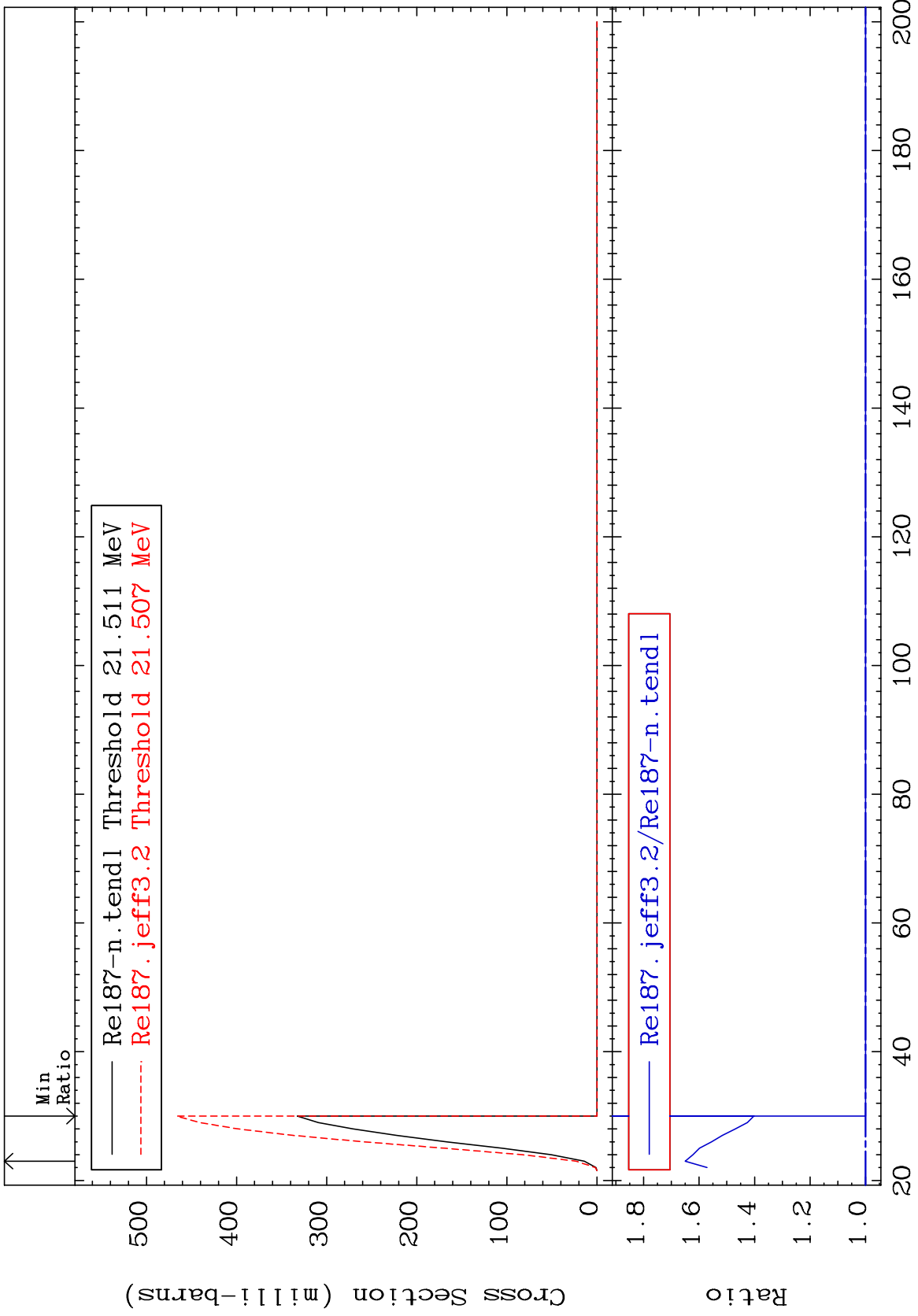


MAT 7531

(n, 4n) : 75-Re-184m5

75-Re-187

Radionuclide Production Cross Section 0.000 To 65.00 %

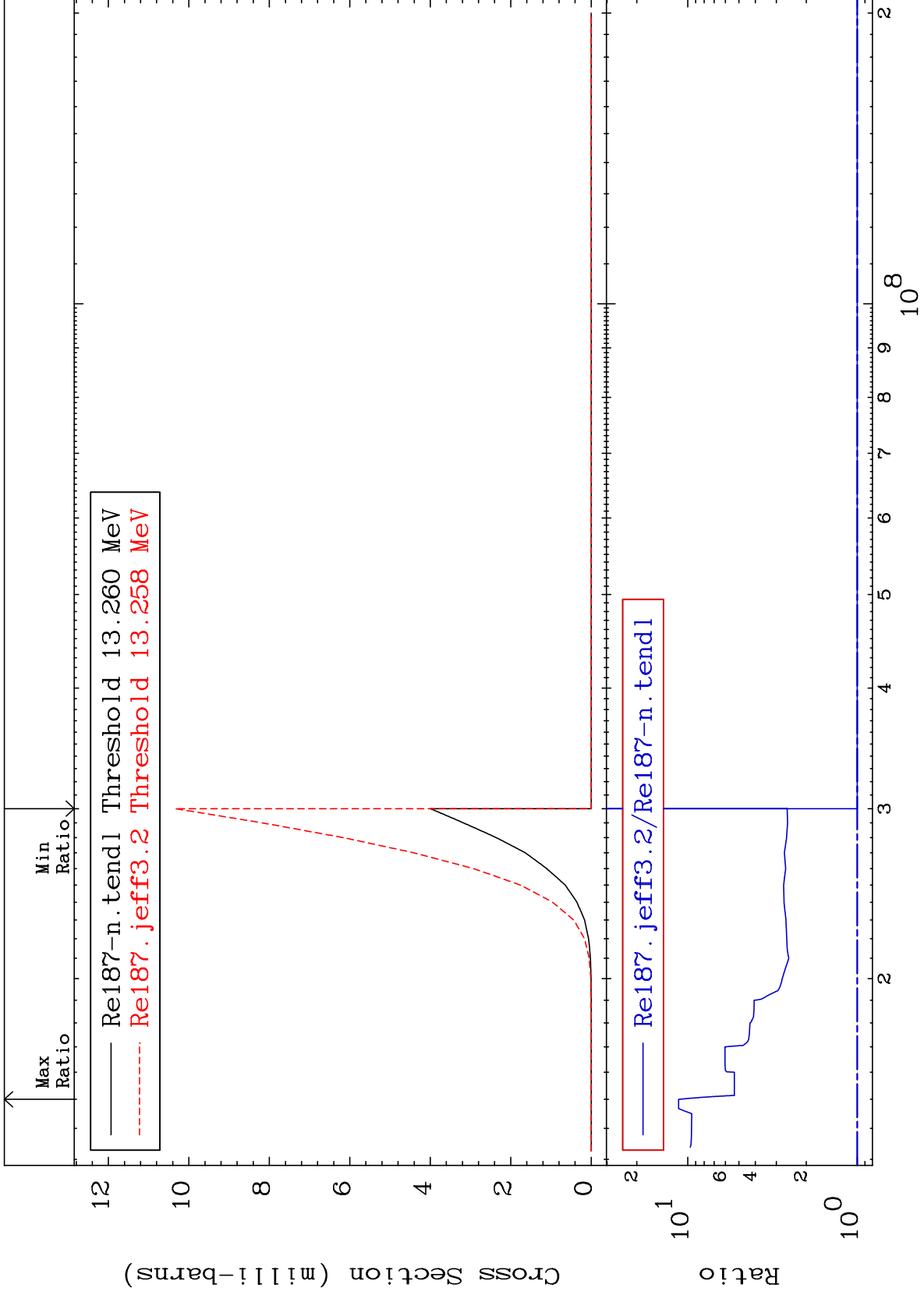


85

Incident Energy (MeV)

75-Re-187

Radionuclide Production Cross Section 0.000

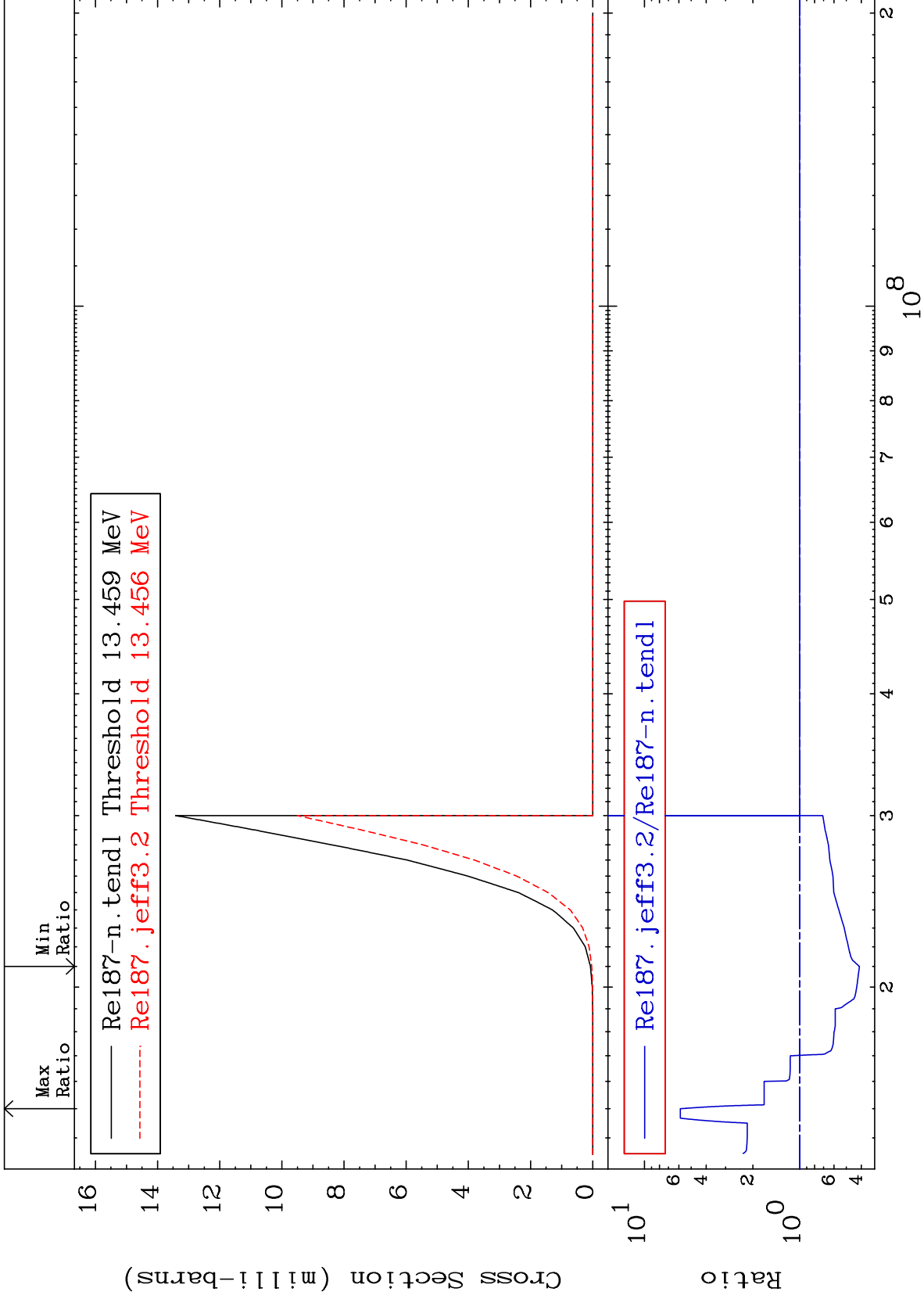


MAT 7531

(n,2n) p:74-W -185m6

75-Re-187

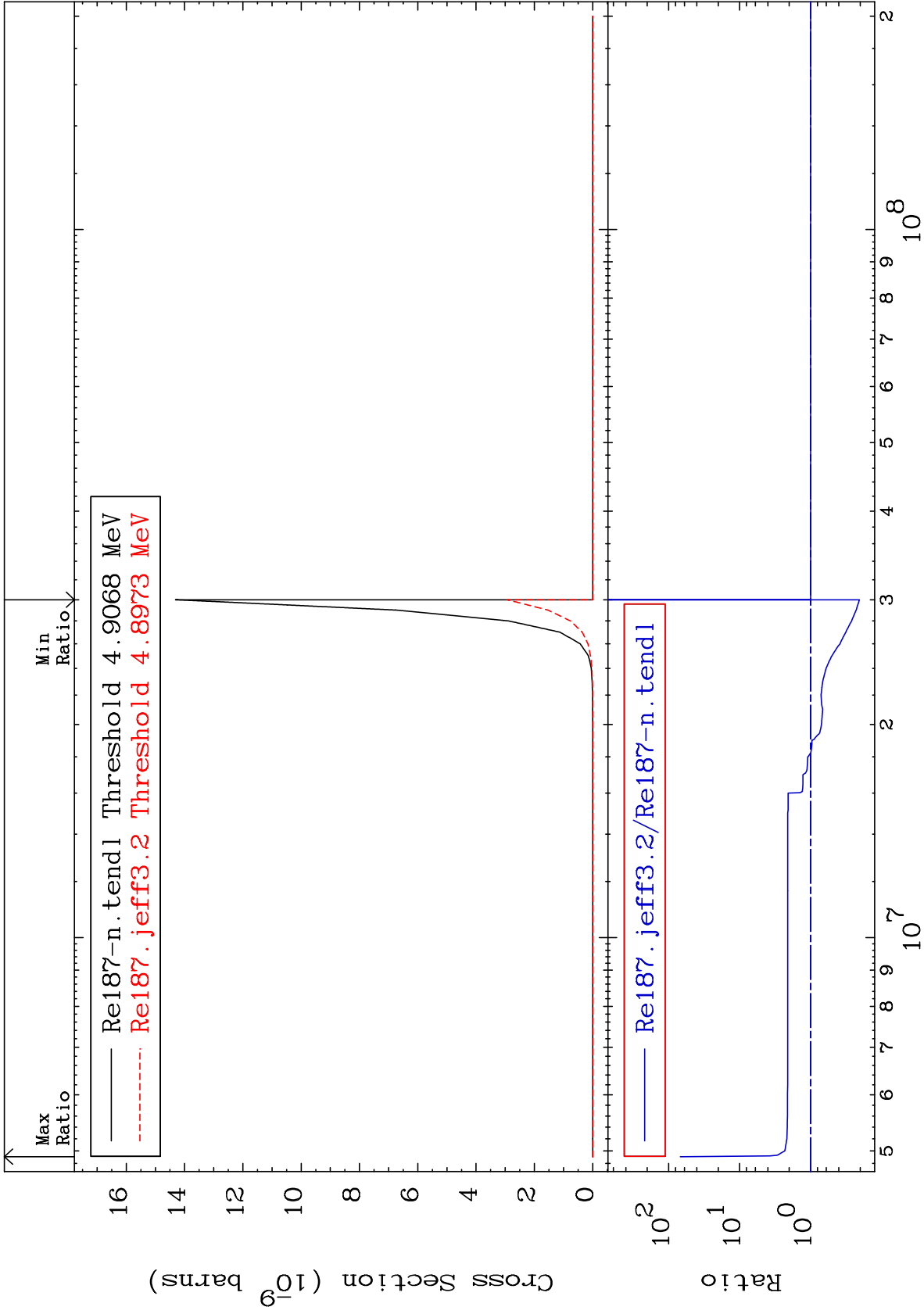
Radionuclide Production Cross Section -58.87 To 487.2 %



87

Incident Energy (eV)

75-Re-187

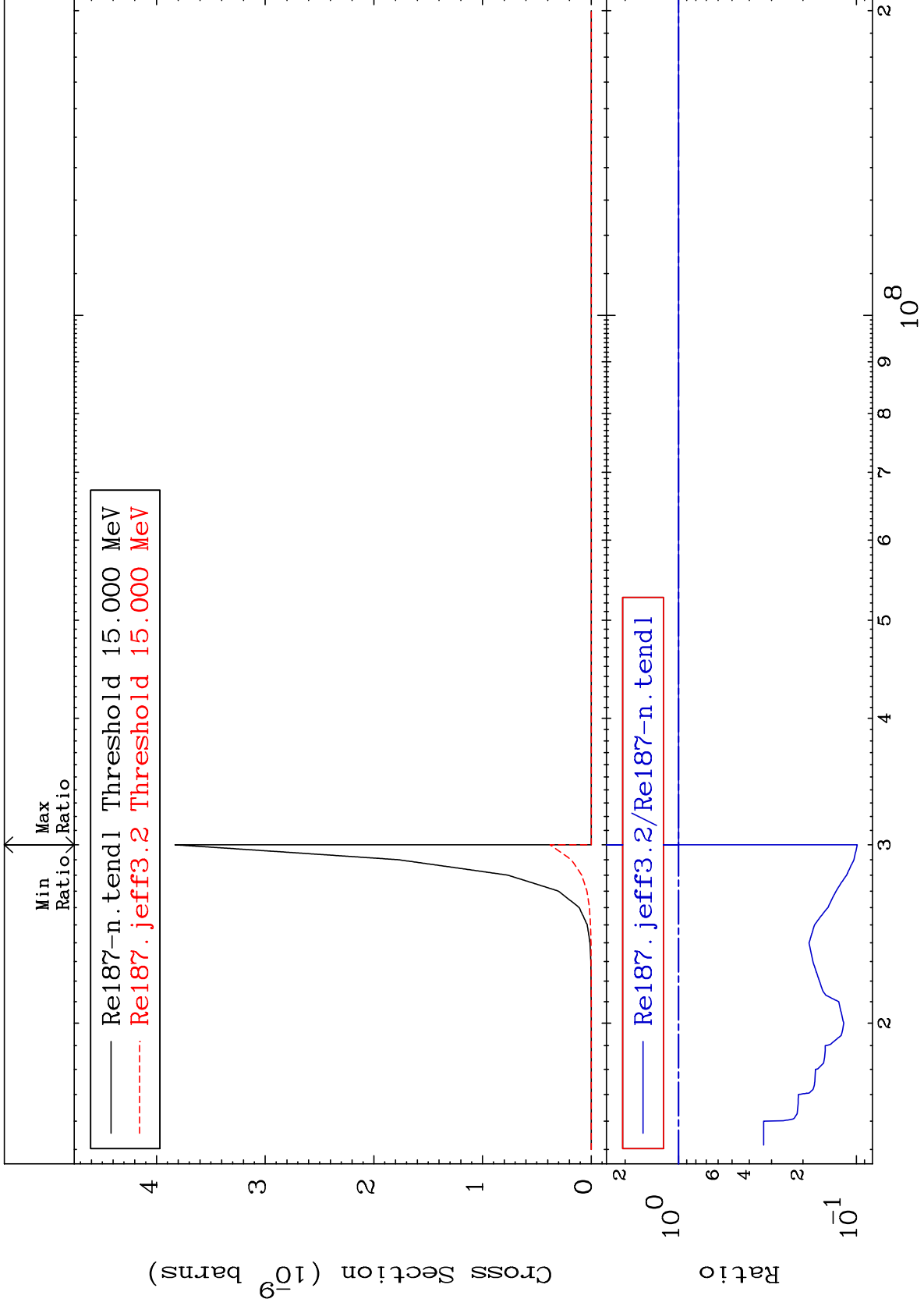


MAT 7531

(n, n') p α :72-Hf-182m9

75-Re-187

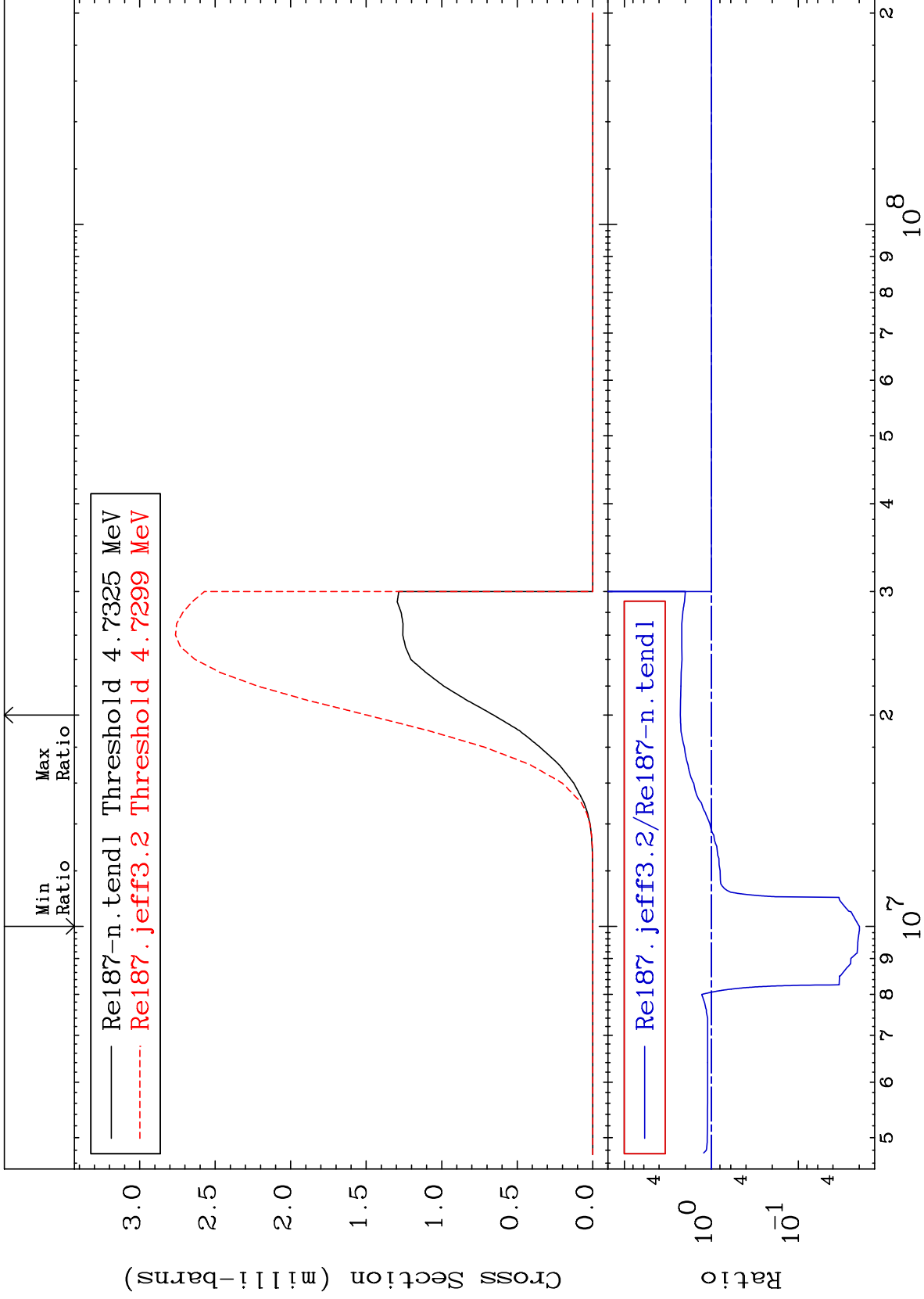
Radionuclide Production Cross Section -90.11 To 0.000 %



MAT 7531

(n, t) : 74-W - 185g
Radionuclide Production Cross Section -98.01 To 127.9 %

75-Re-187



90

Incident Energy (eV)

75-Re-187

MAT 7531

(n, t): 74-W -185m6

75-Re-187

Radionuclide Production Cross Section -98.99 To 0.000 %

