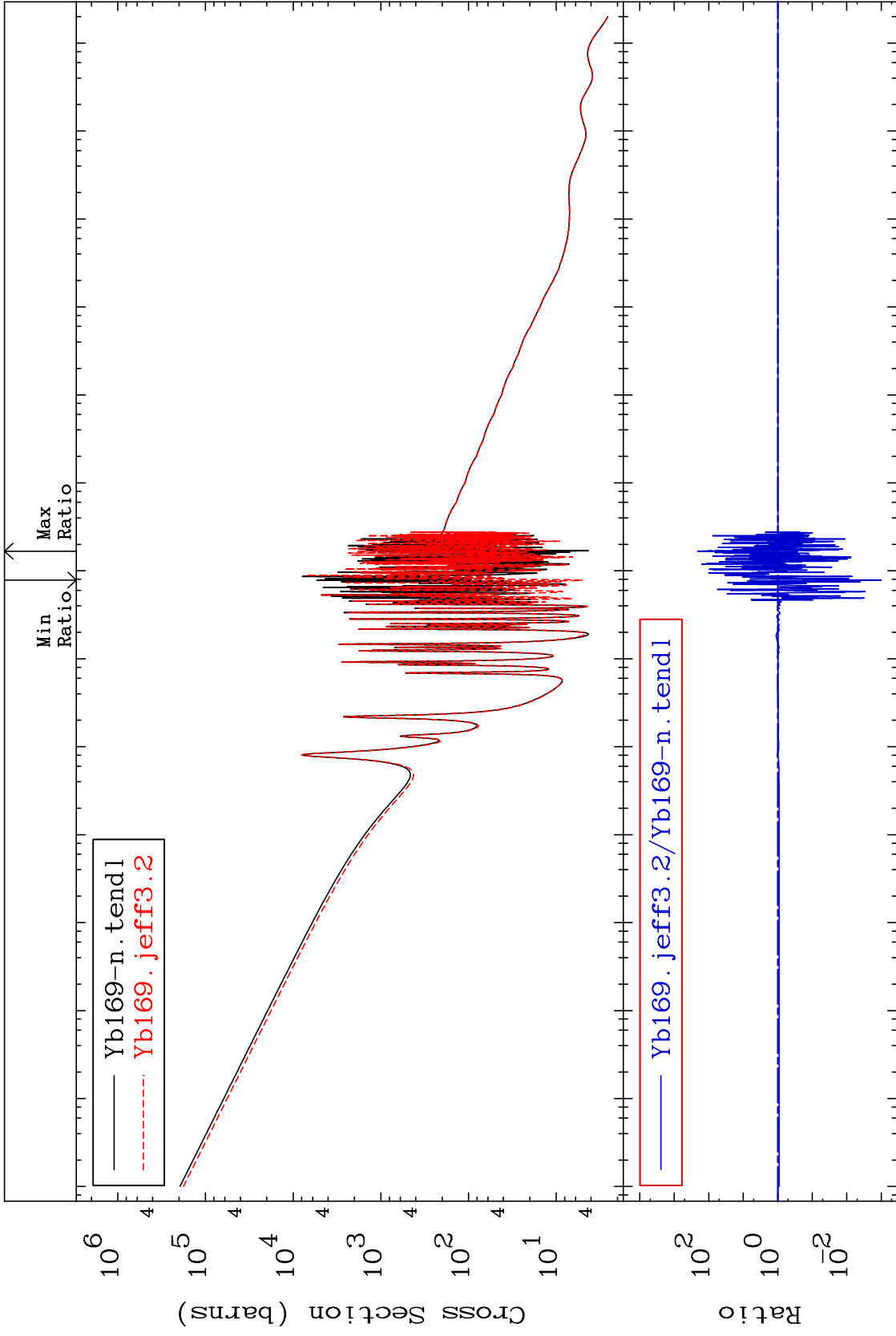


MAT 7028

Total Cross Section
70-Yb-169
-99.90 To 9999. %



Incident Energy (eV)

70-Yb-169

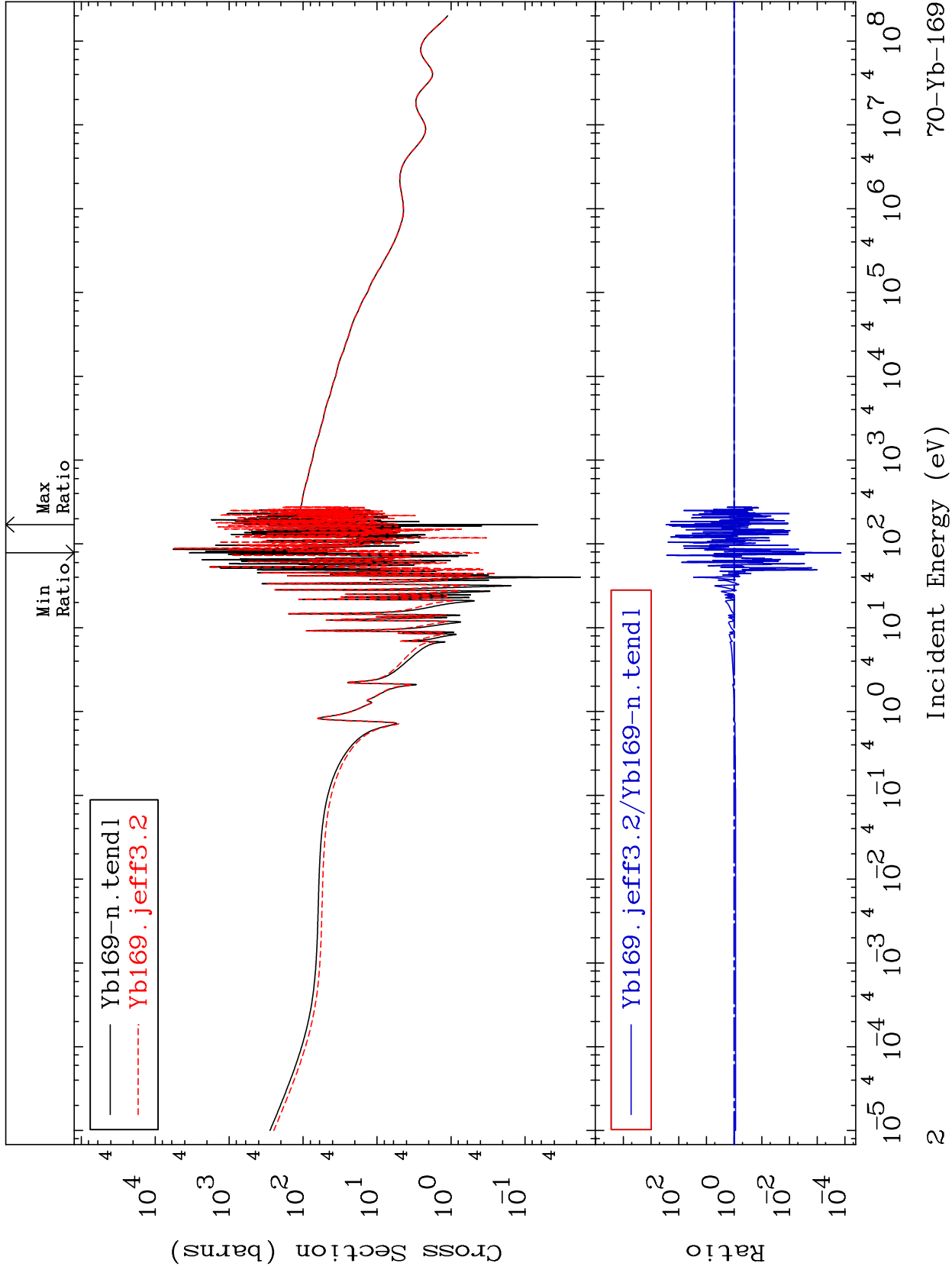
MAT 7028

Elastic

70-Yb-169

Cross Section

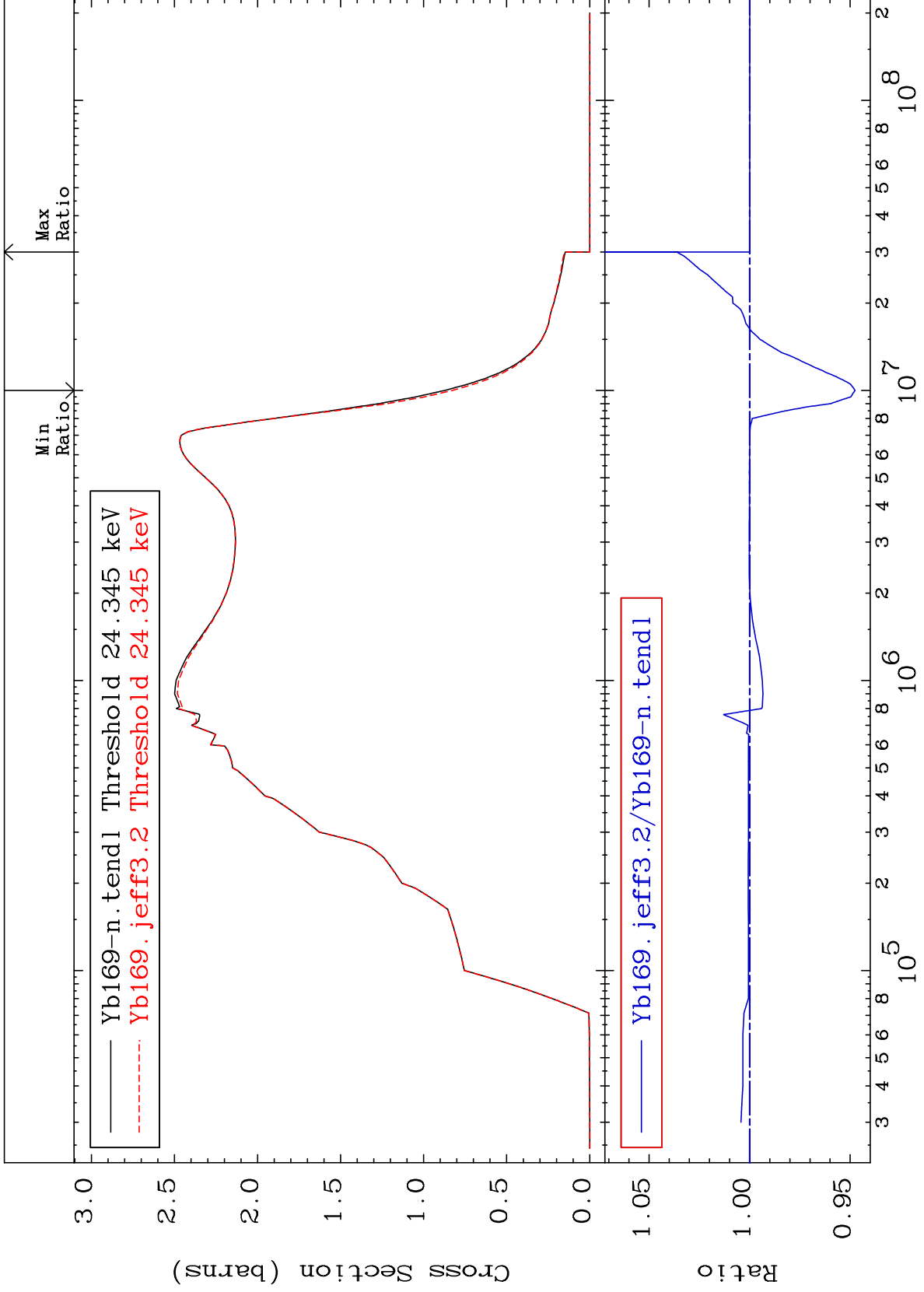
-99.99 To 9999. %



MAT 7028

Inelastic Cross Section

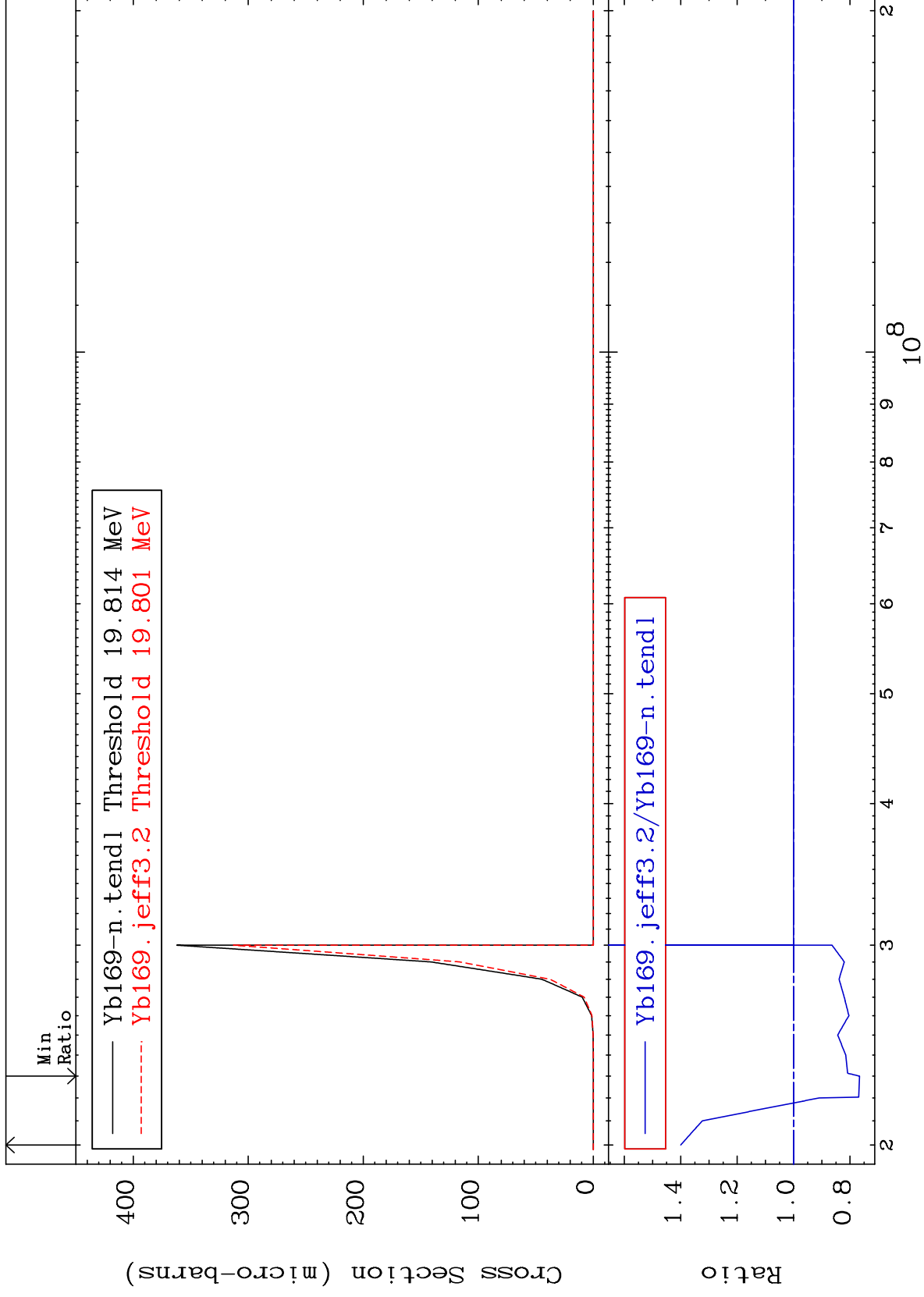
70-Yb-169
-5.244 To 3.617 %



MAT 7028

(n,2n) d
Cross Section

70-Yb-169
-23.37 To 40.00 %



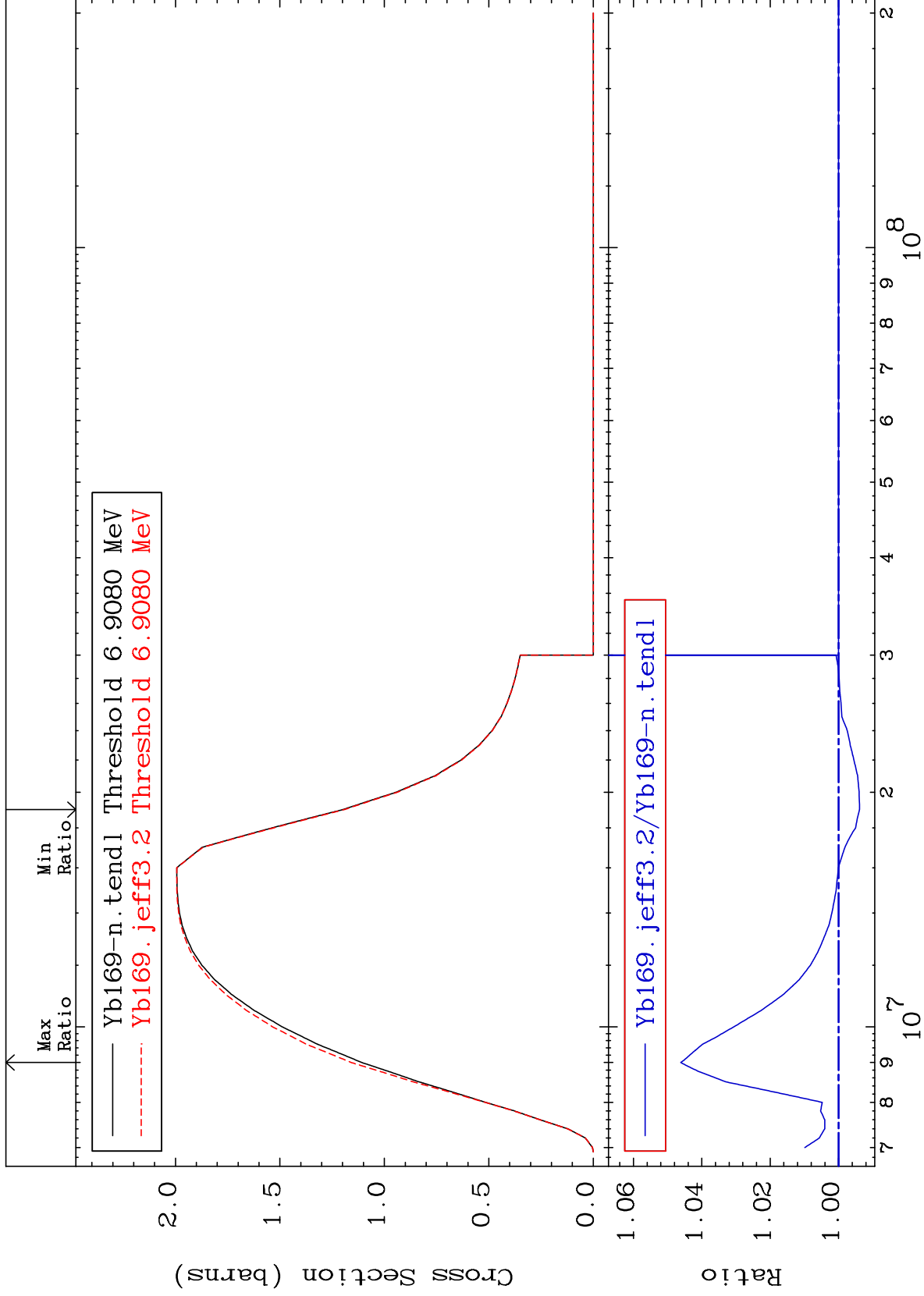
MAT 7028

(n,2n)

70-Yb-169

Cross Section

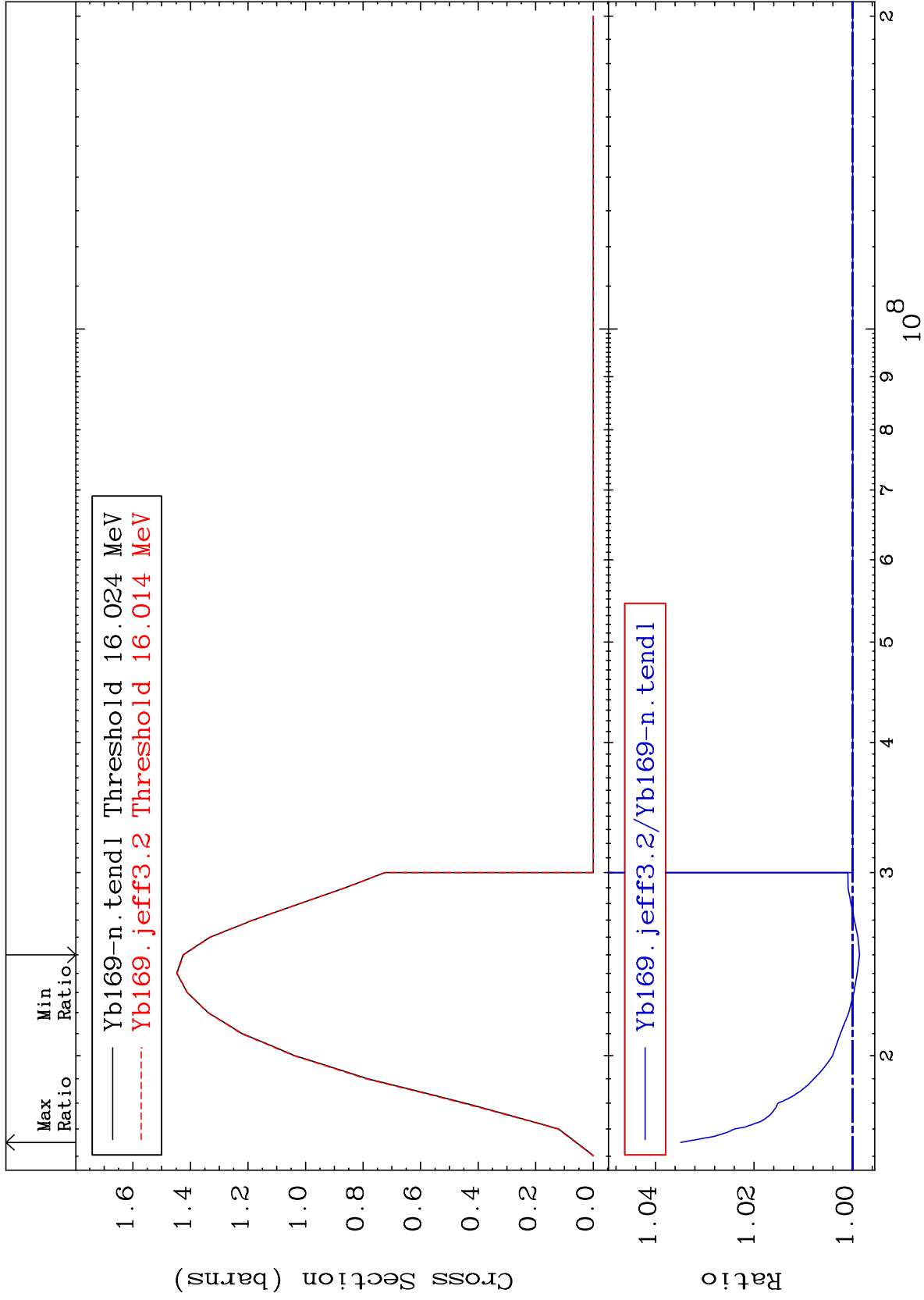
-0.614 To 4.616 %



5

Incident Energy (eV)

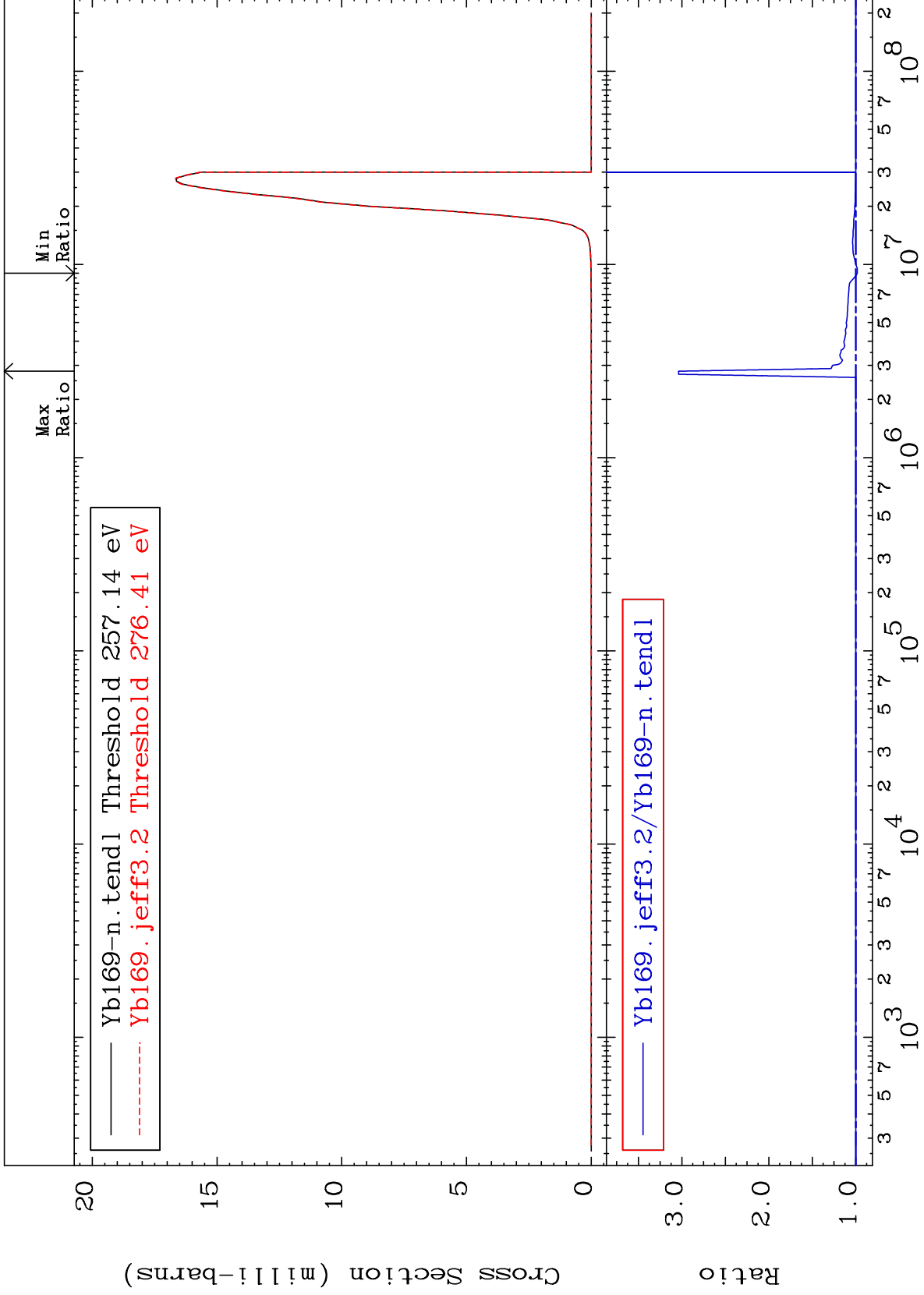
70-Yb-169



MAT 7028

$(n, n') \alpha$
Cross Section

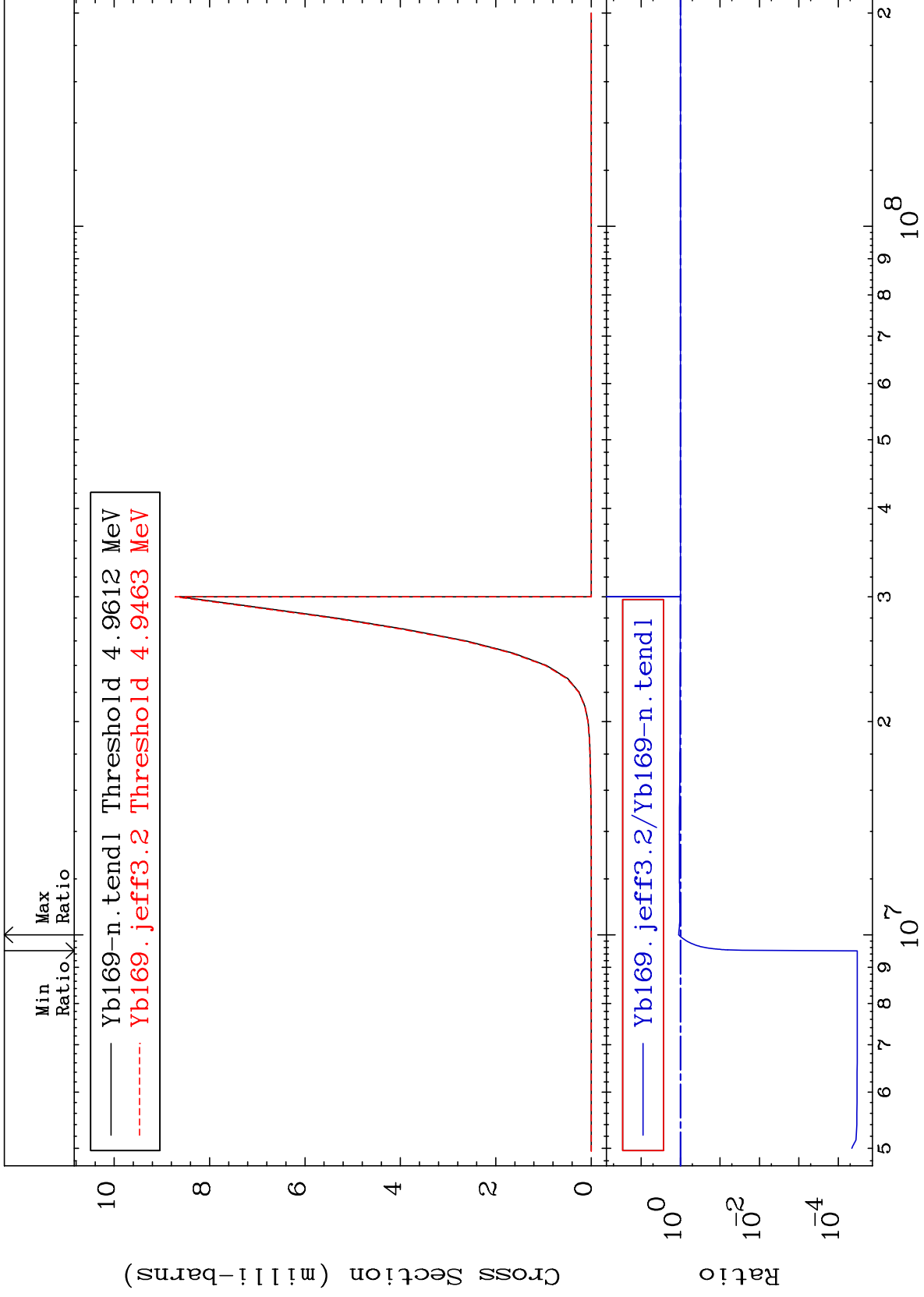
70-Yb-169
-1.734 To 203.8 %



MAT 7028

(n,2n) α
Cross Section

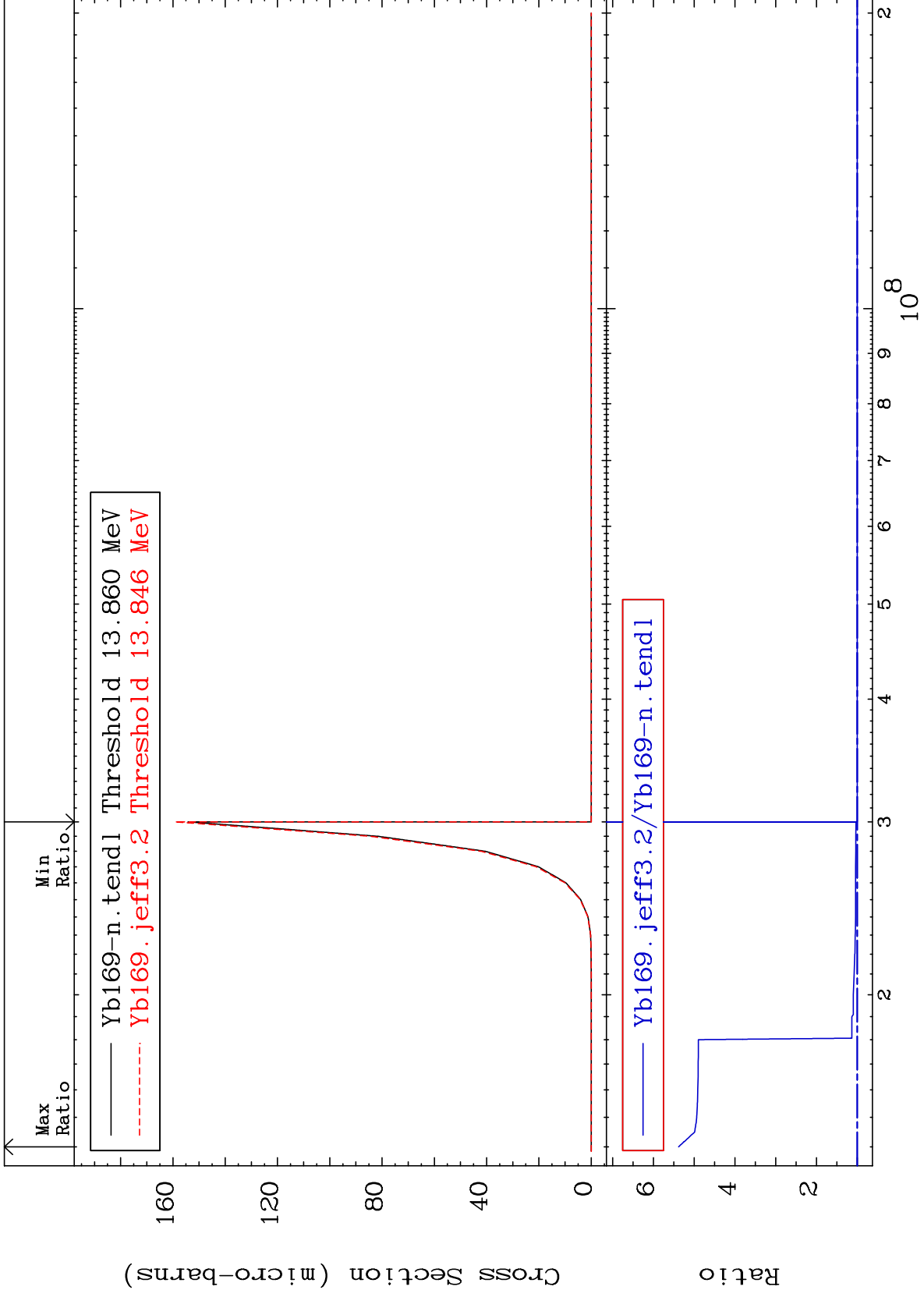
70-Yb-169
-100.0 To 11.84 %



MAT 7028

(n,3n) α
Cross Section

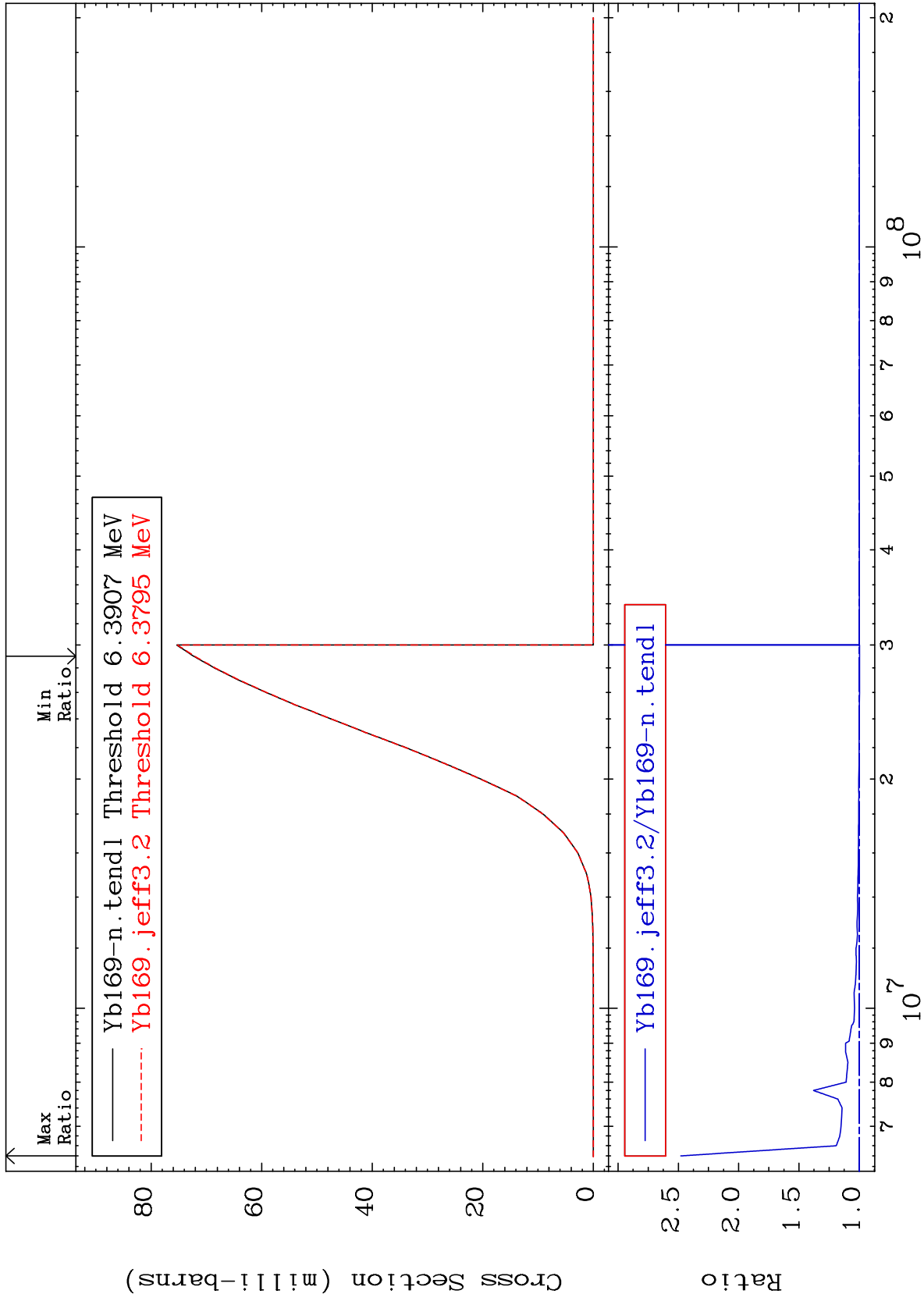
⁷⁰Yb-169
To 438.1 %



MAT 7028

(n, n') p
Cross Section

70-Yb-169
-0.235 To 148.0 %



10

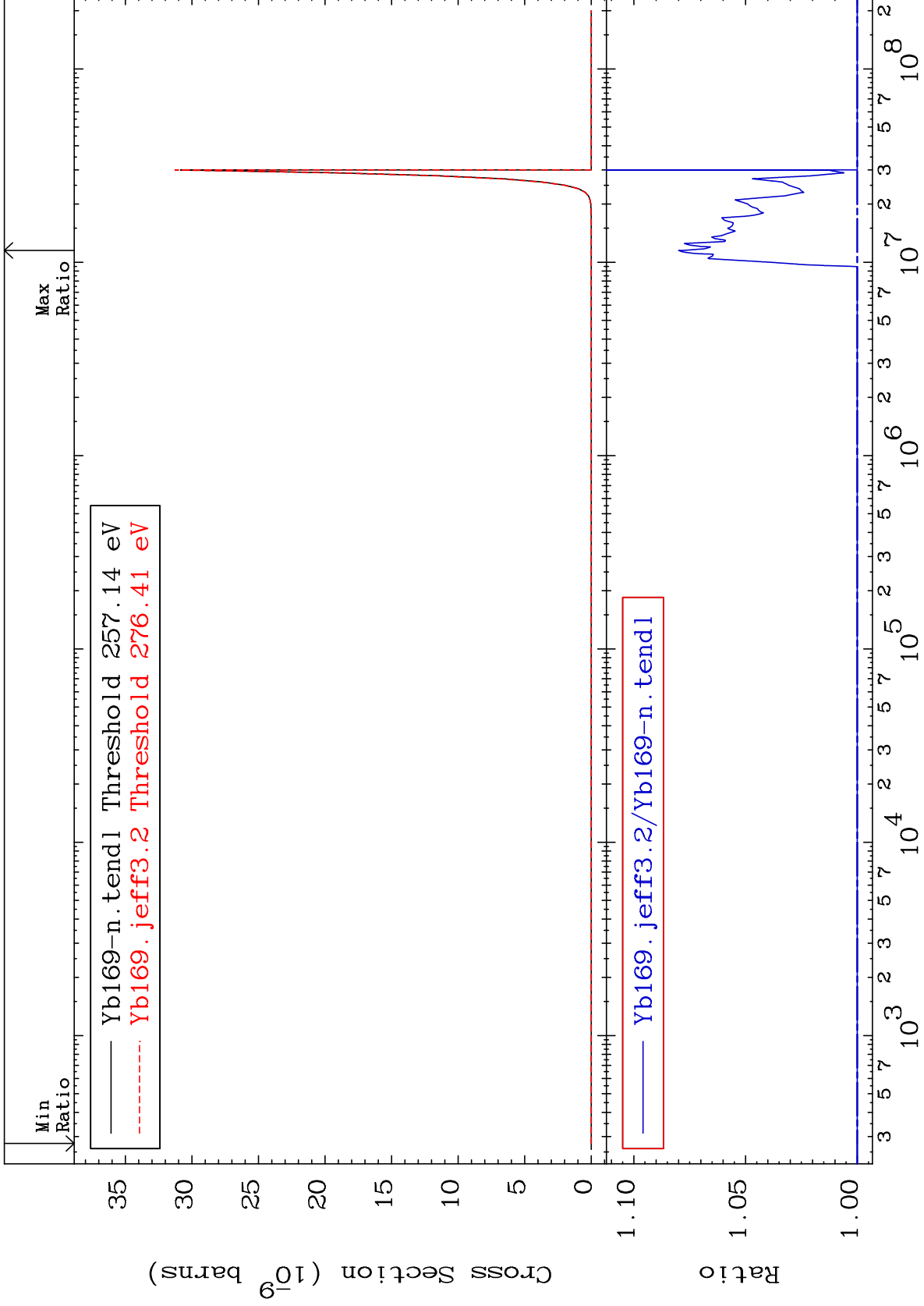
Incident Energy (eV)

70-Yb-169

MAT 7028

(n, n') 2α
Cross Section

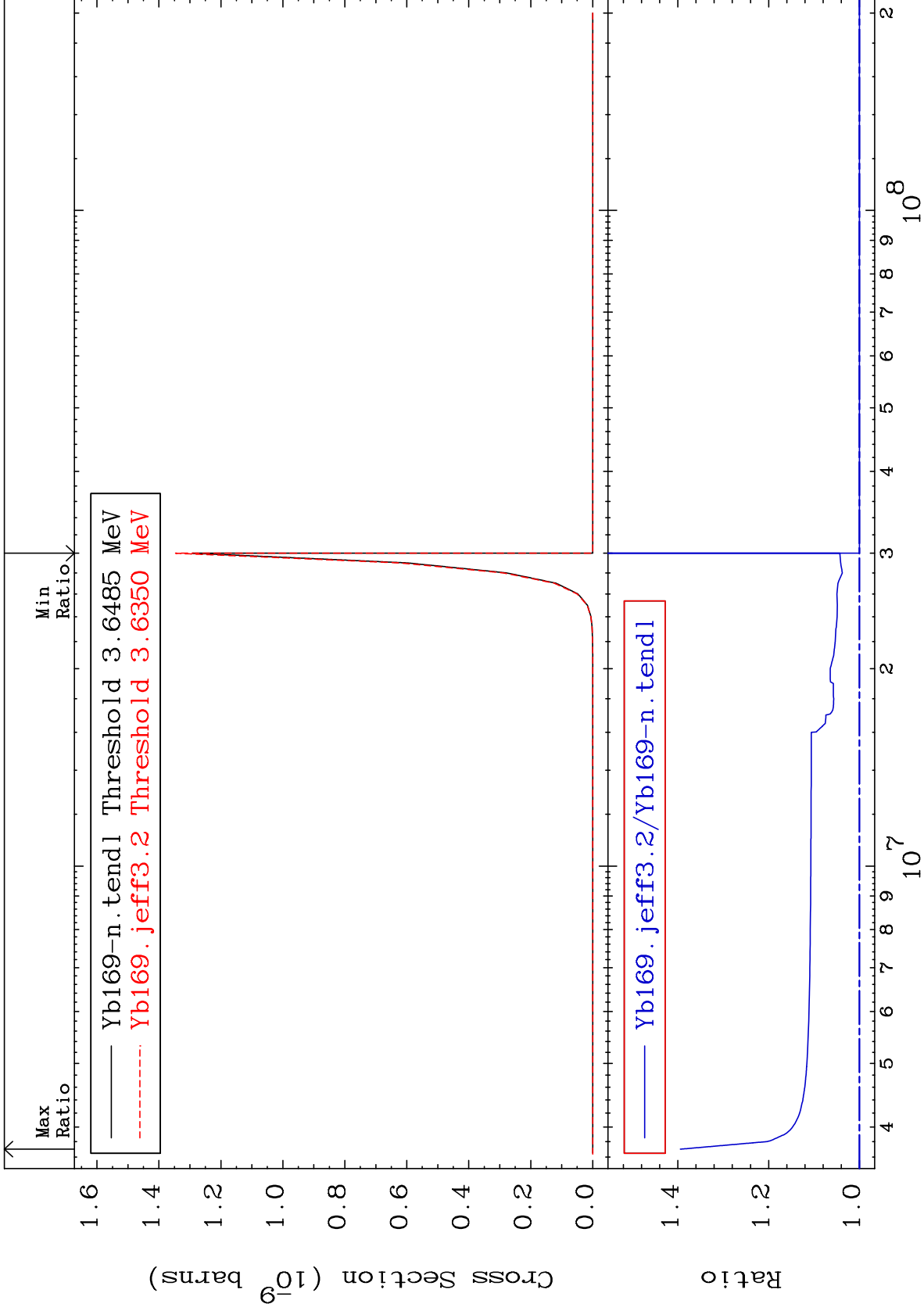
70-Yb-169
To 7.994 %



MAT 7028

(n,2n) 2α
Cross Section

70-Yb-169
To 39.45 %
0.000



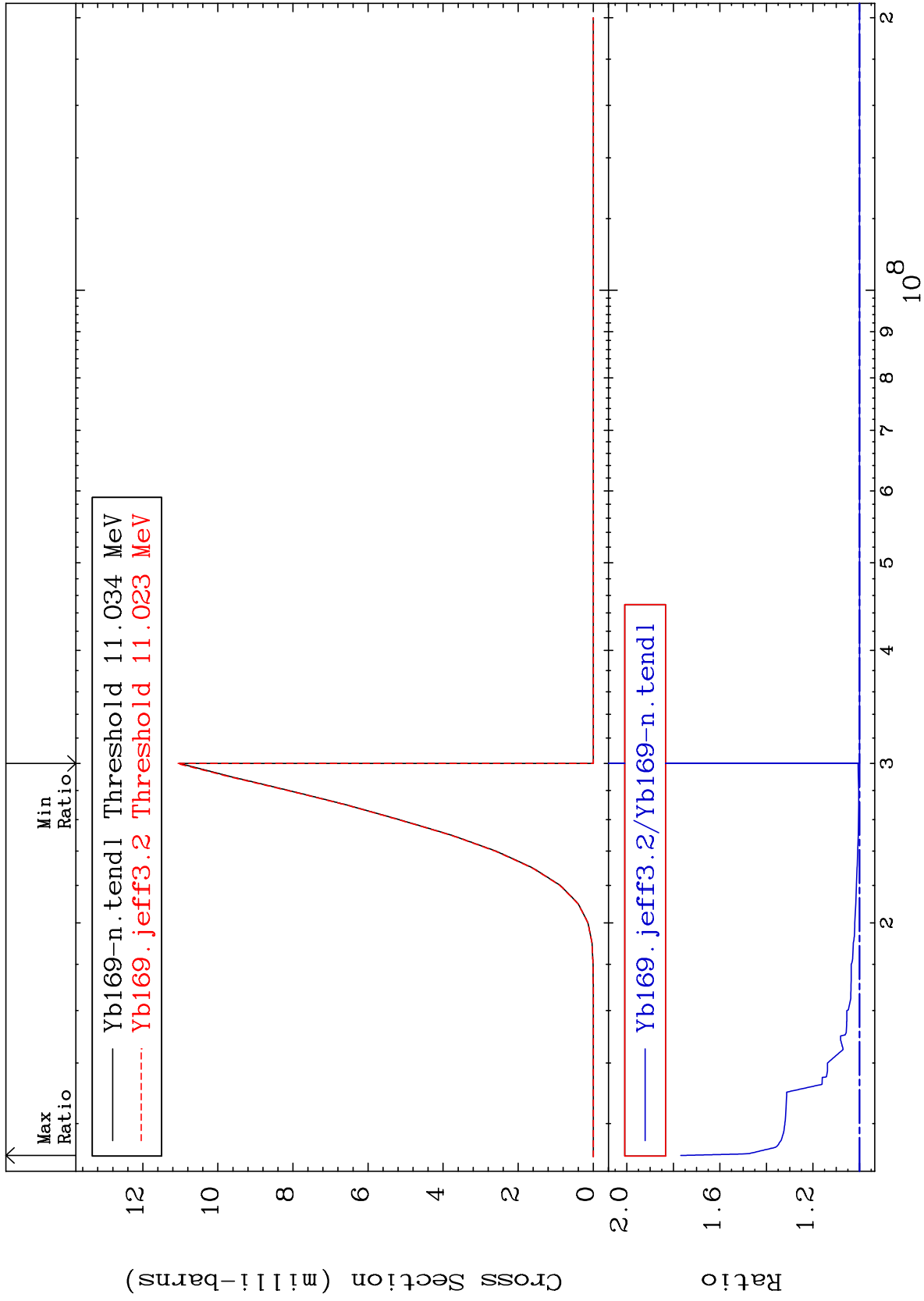
12

70-Yb-169

MAT 7028

(n,n') d
Cross Section

70-Yb-169
To 76.82 %
0.000



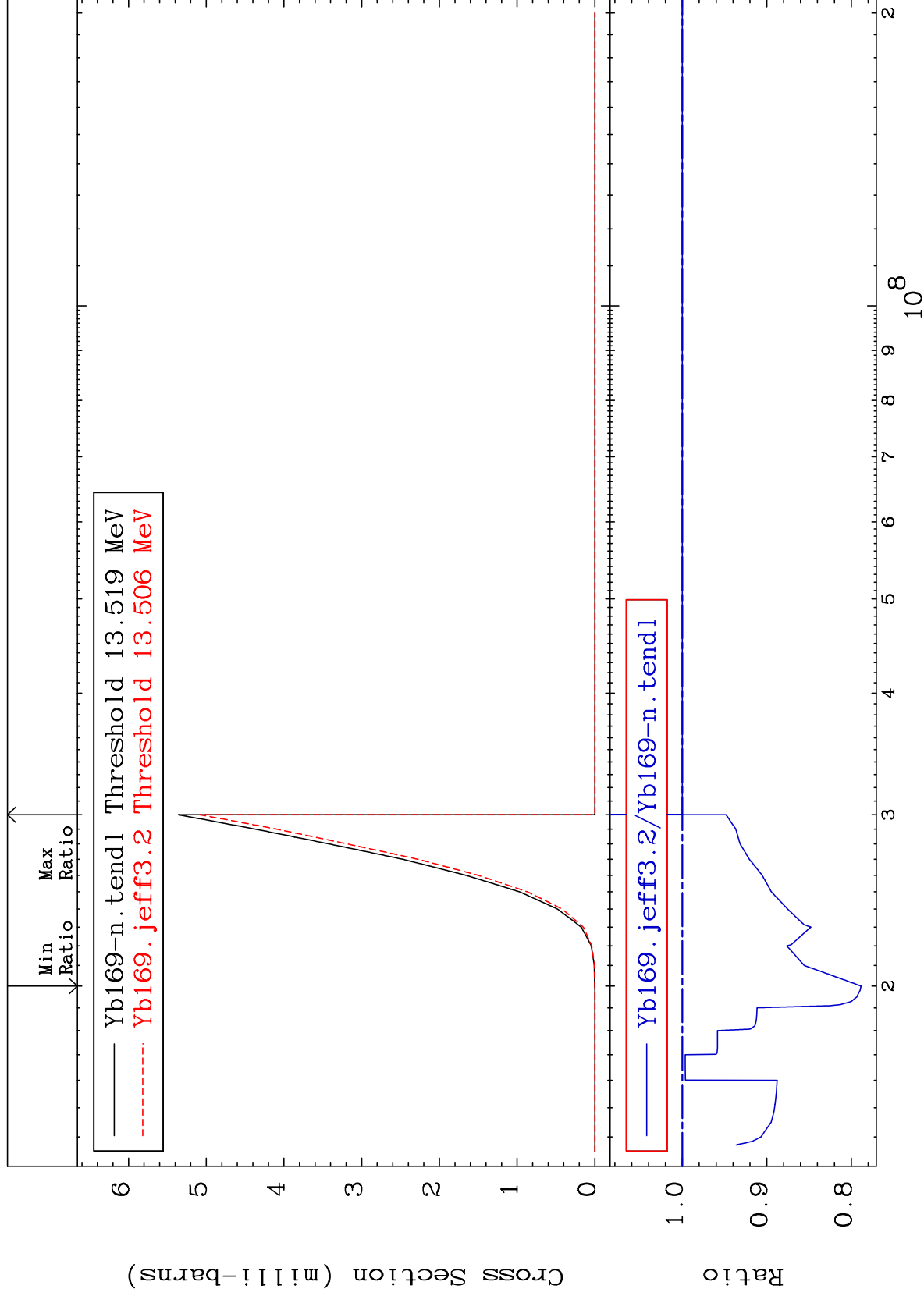
MAT 7028

(n, n') t

70-Yb-169

Cross Section

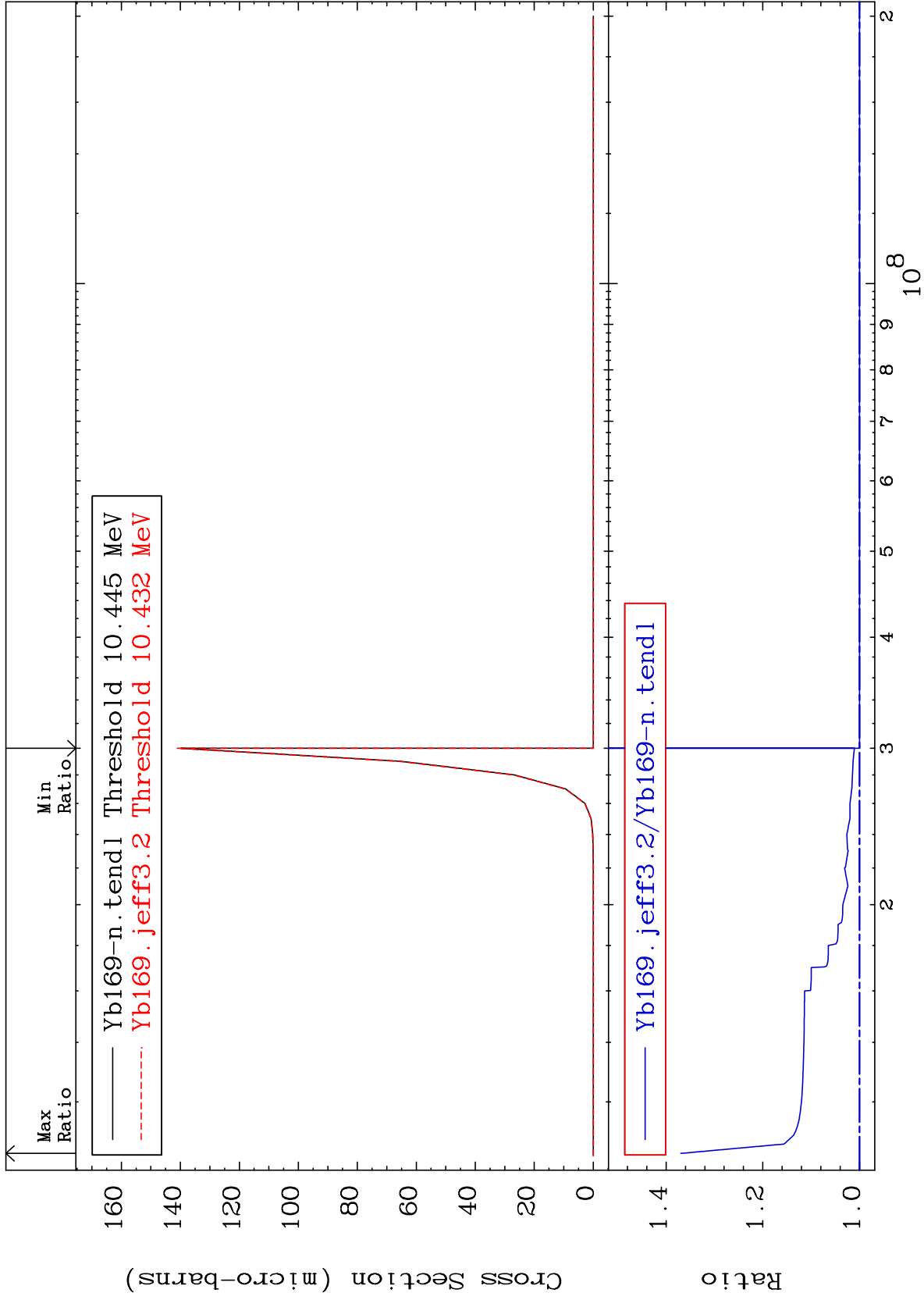
-21.17 To 0.000 %



MAT 7028

(n, n') He-3
Cross Section

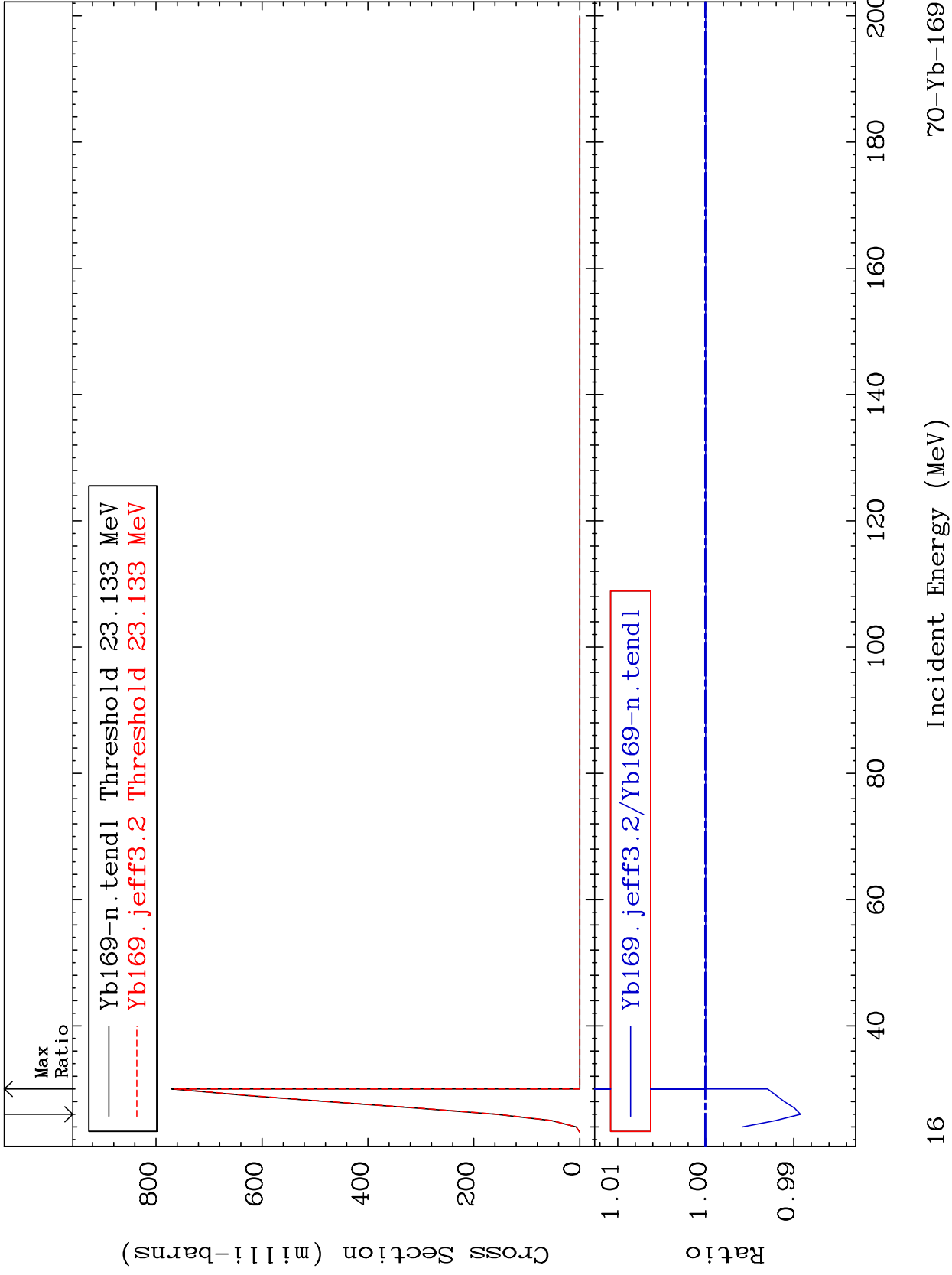
70-Yb-169
To 36.96 %



MAT 7028

(n,4n)
Cross Section

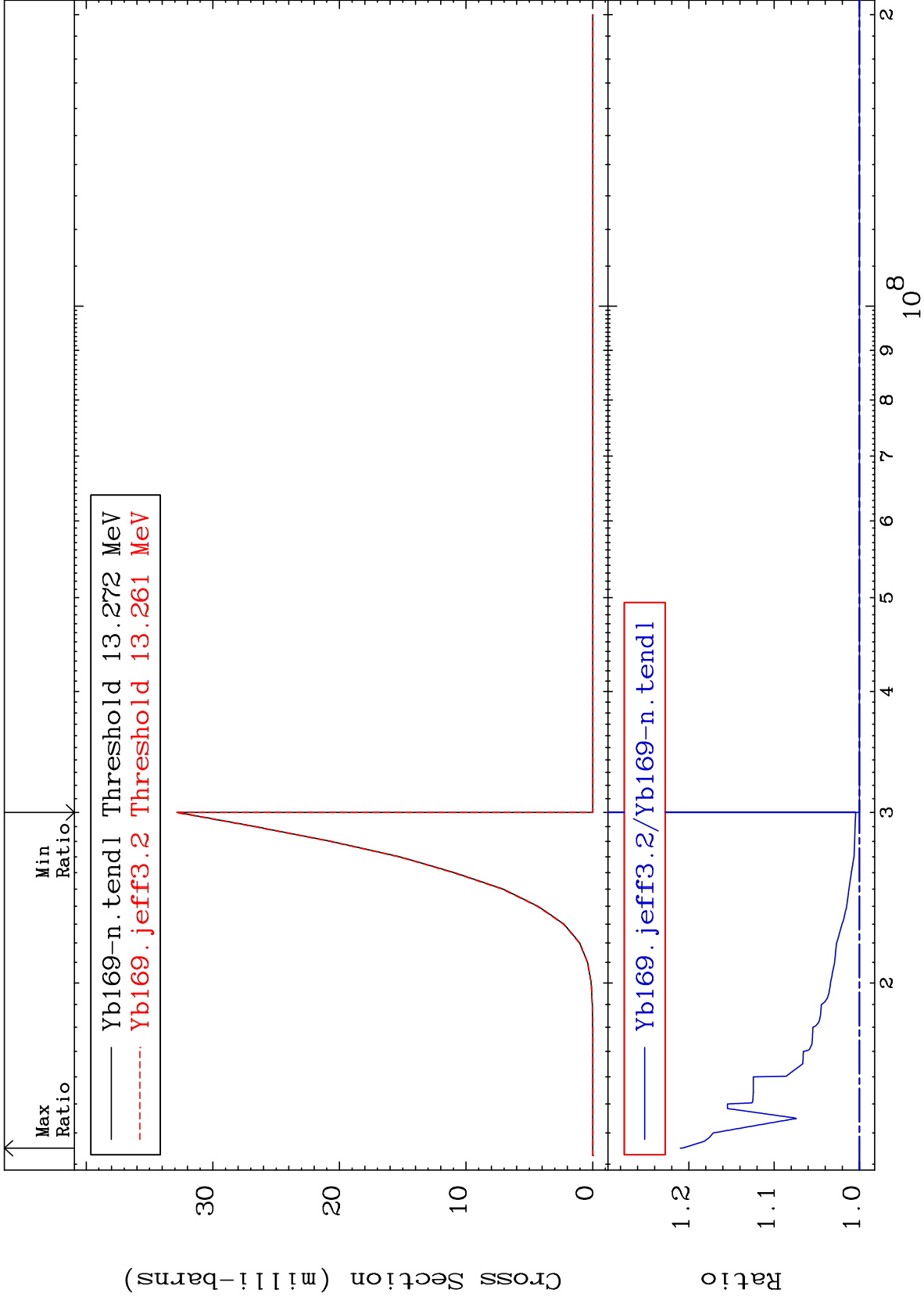
70-Yb-169
-1.076 To 0.000 %



MAT 7028

(n,2n) p
Cross Section

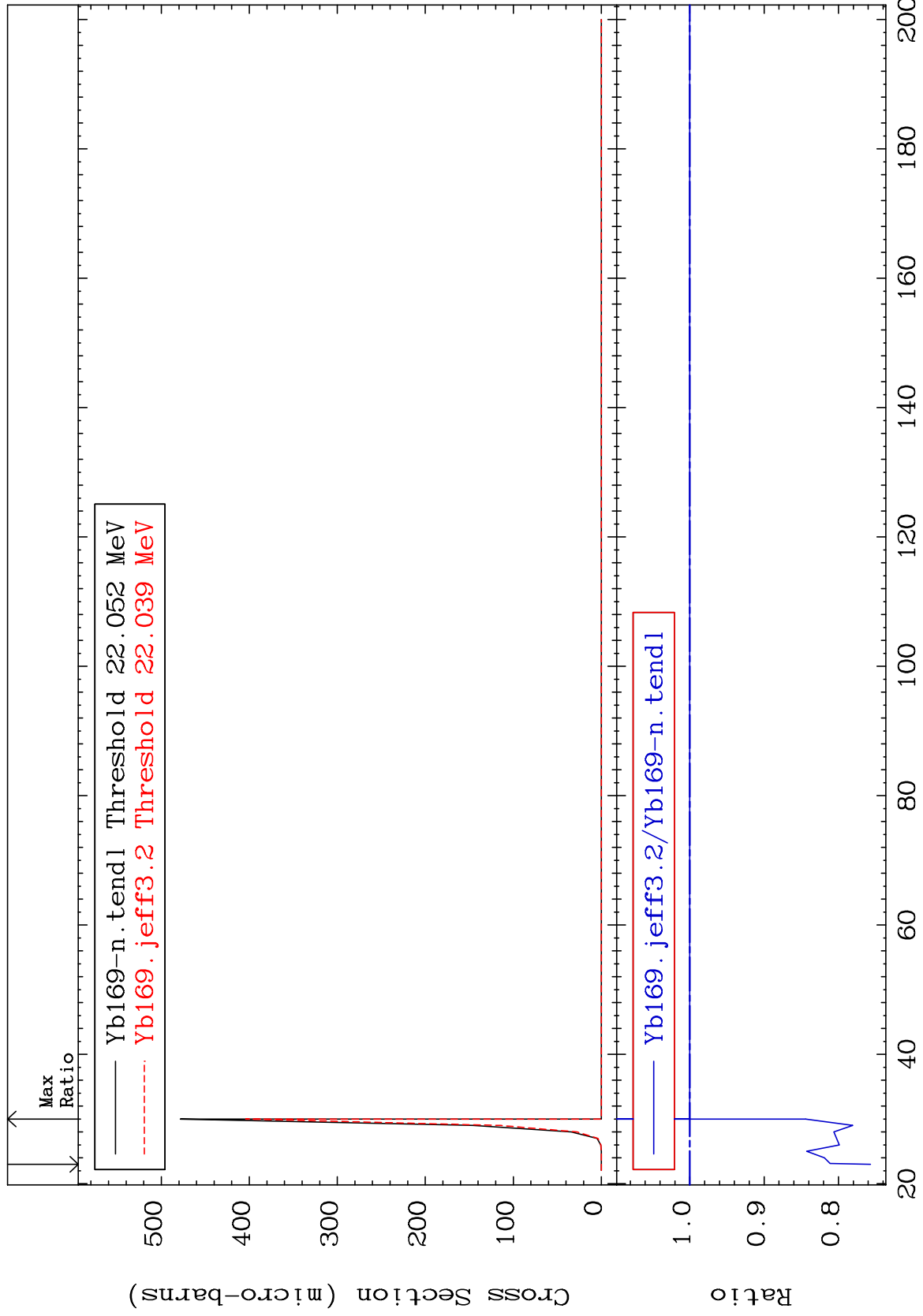
70-Yb-169
To 20.98 %



MAT 7028

(n,3n) p
Cross Section

⁷⁰Yb-169
-24.30 To 0.000 %



18

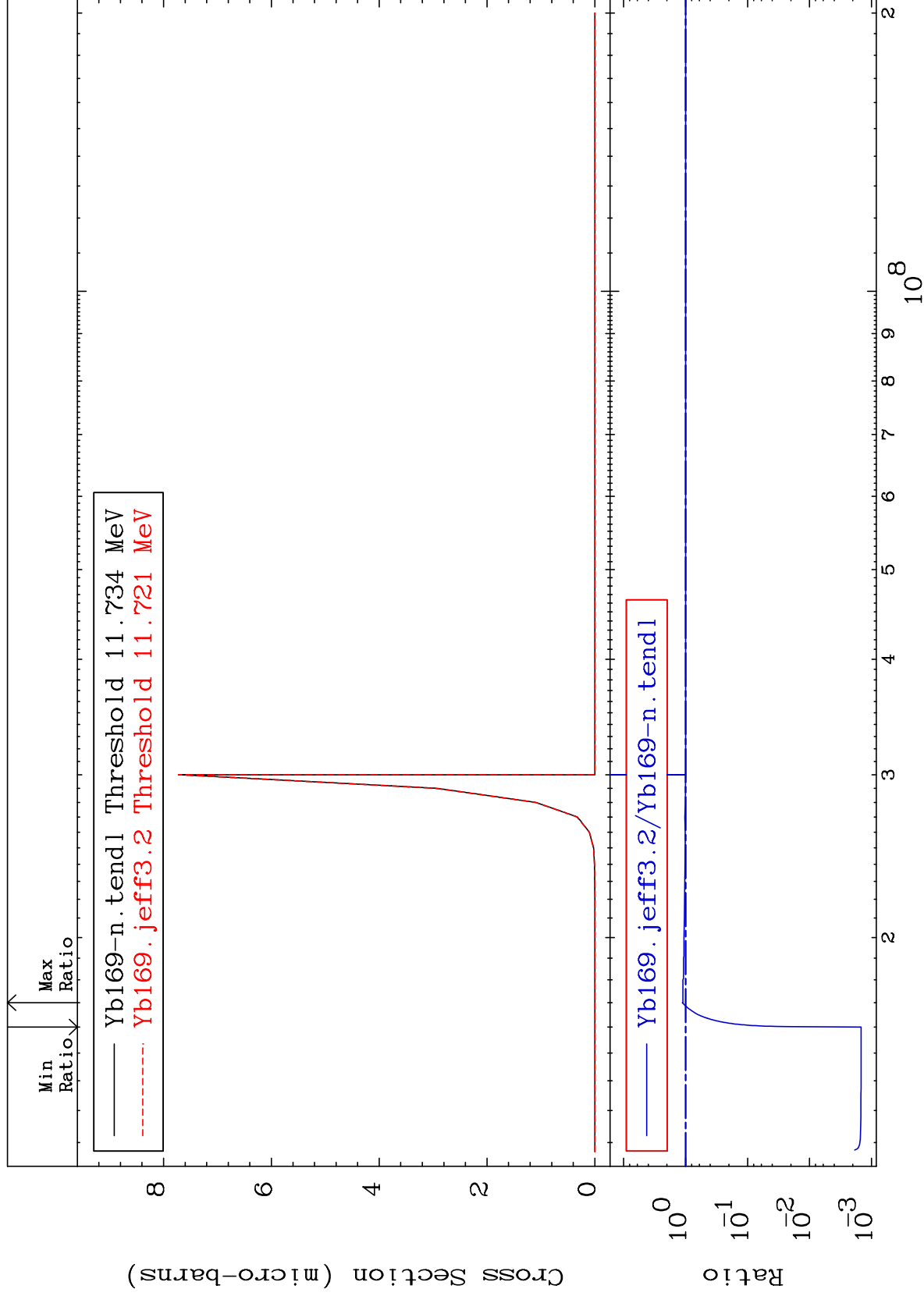
Incident Energy (MeV)

⁷⁰Yb-169

MAT 7028

(n,2n) p
Cross Section

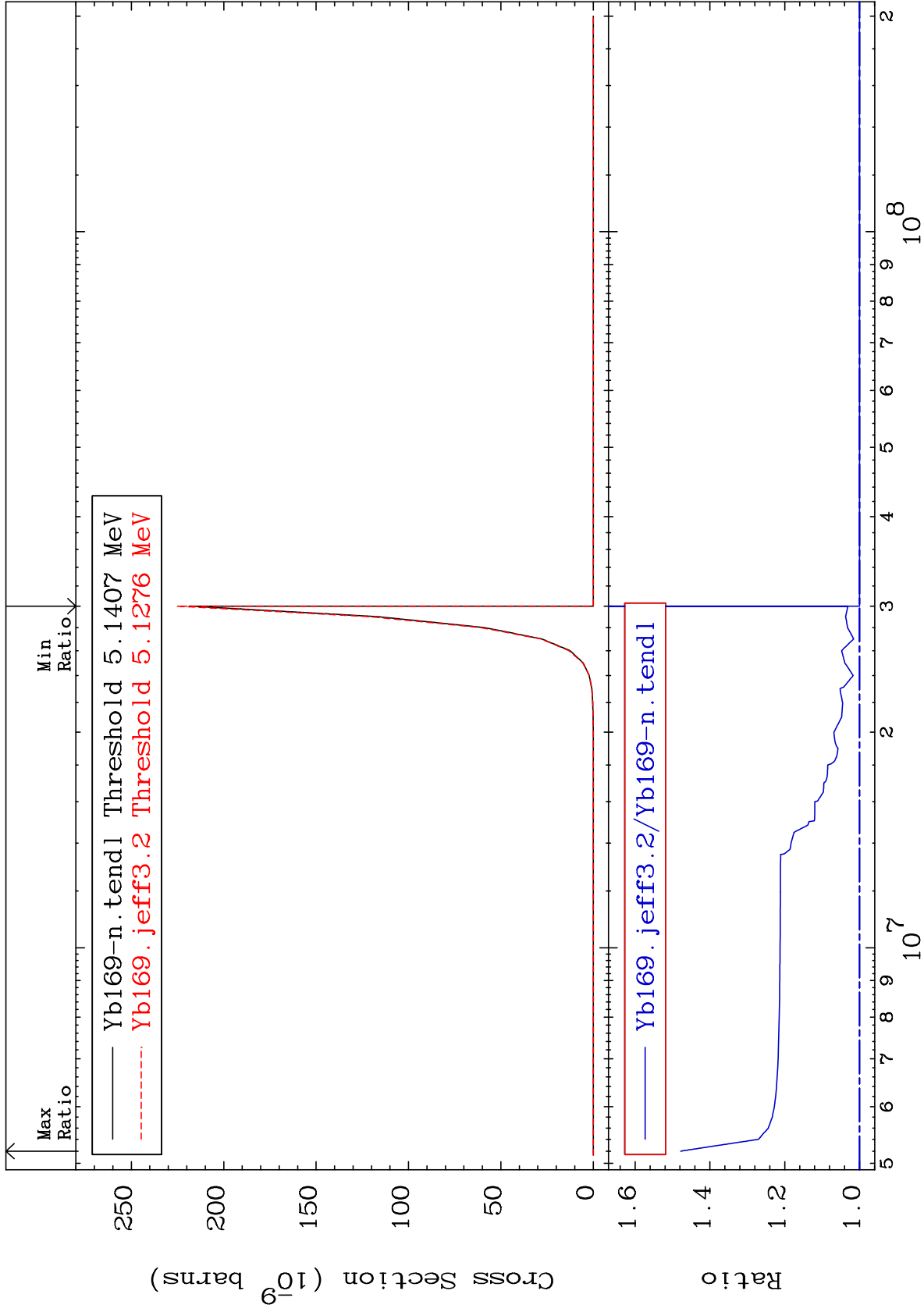
70-Yb-169
-99.85 To 13.01 %



MAT 7028

(n,n') p α
Cross Section

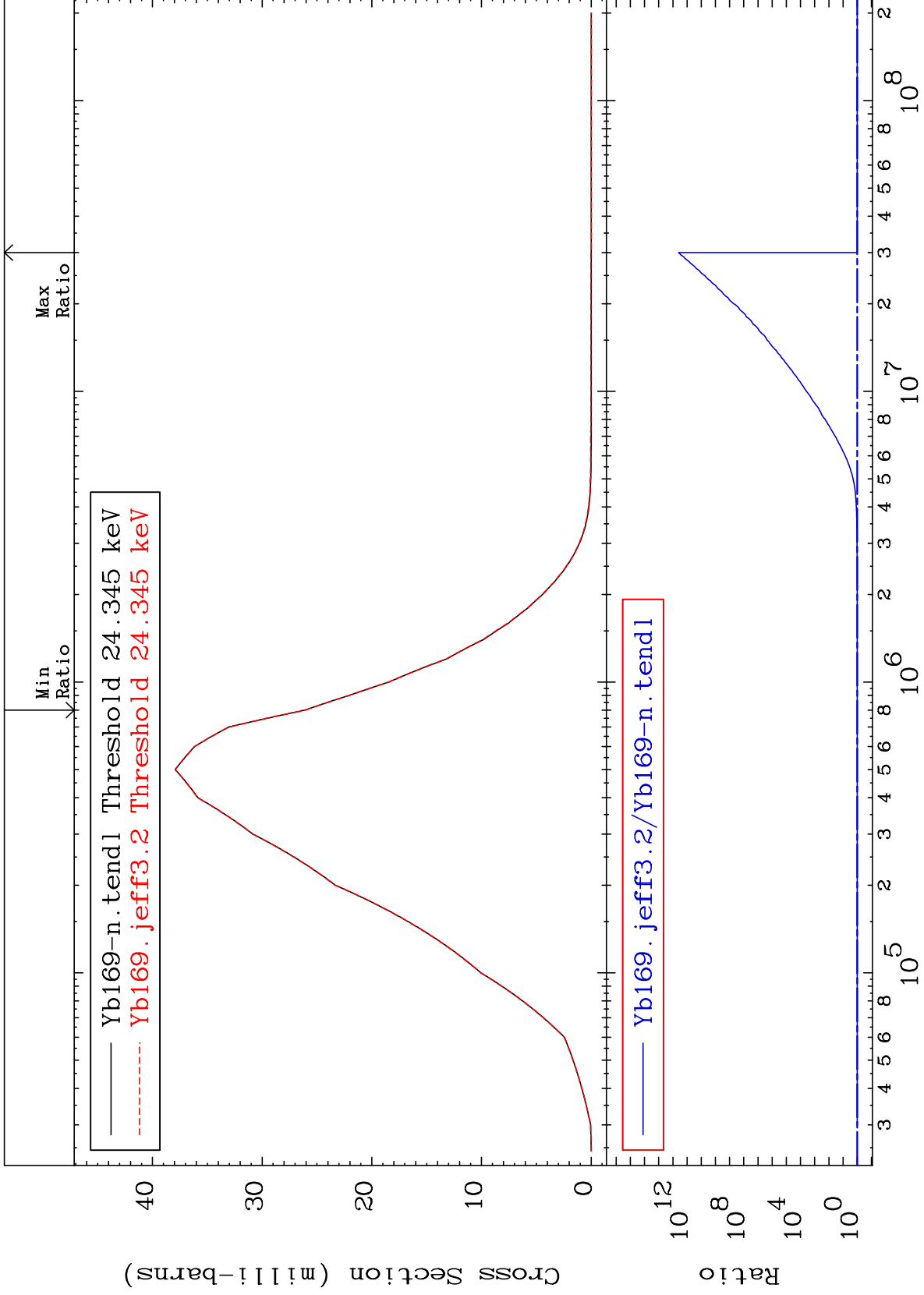
70-Yb-169
To 47.79 %



MAT 7028

24.20 keV (n,n') Level
Cross Section

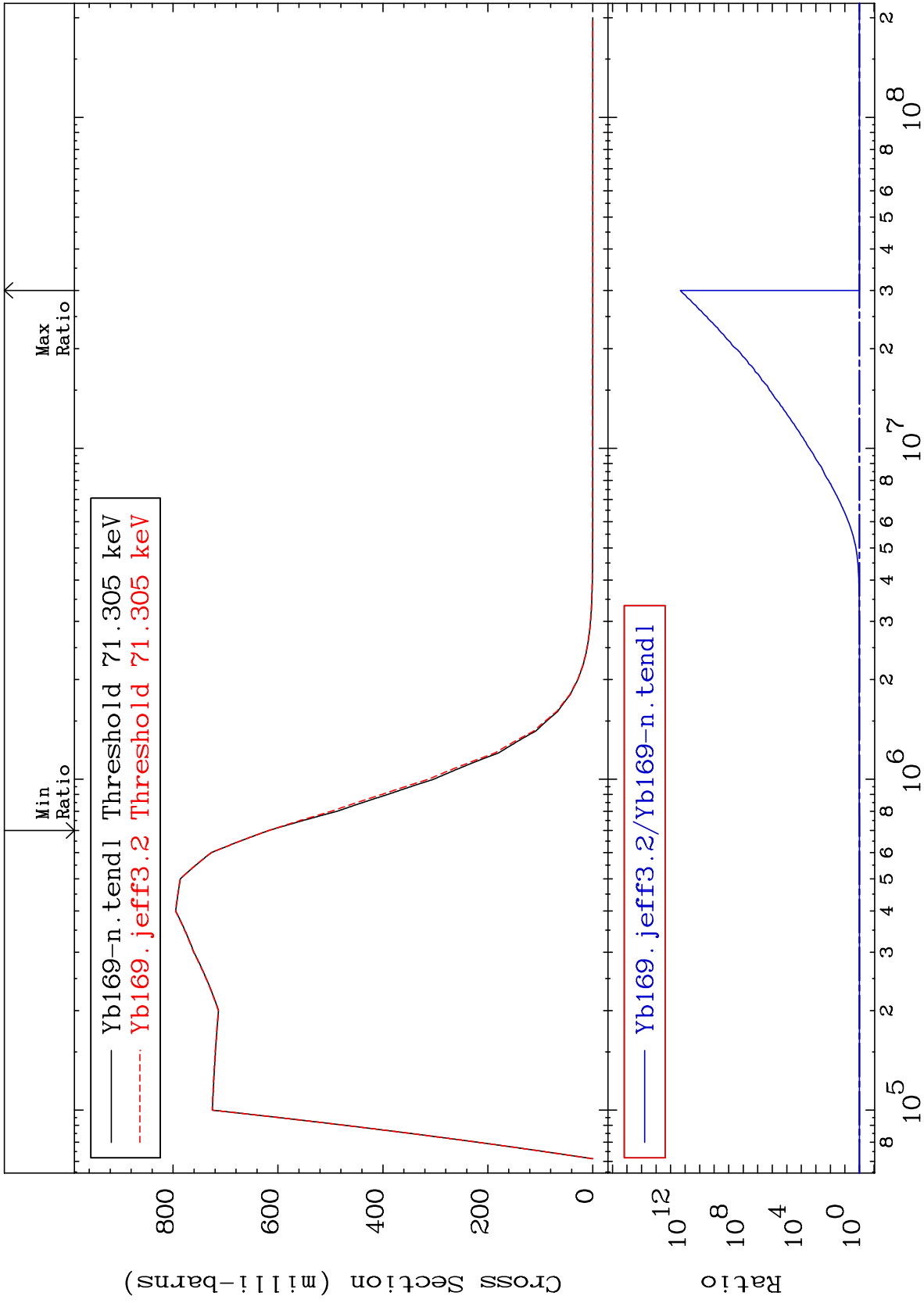
70-Yb-169
-0.031 To 9999. %



MAT 7028

70.88 keV (n,n') Level
Cross Section

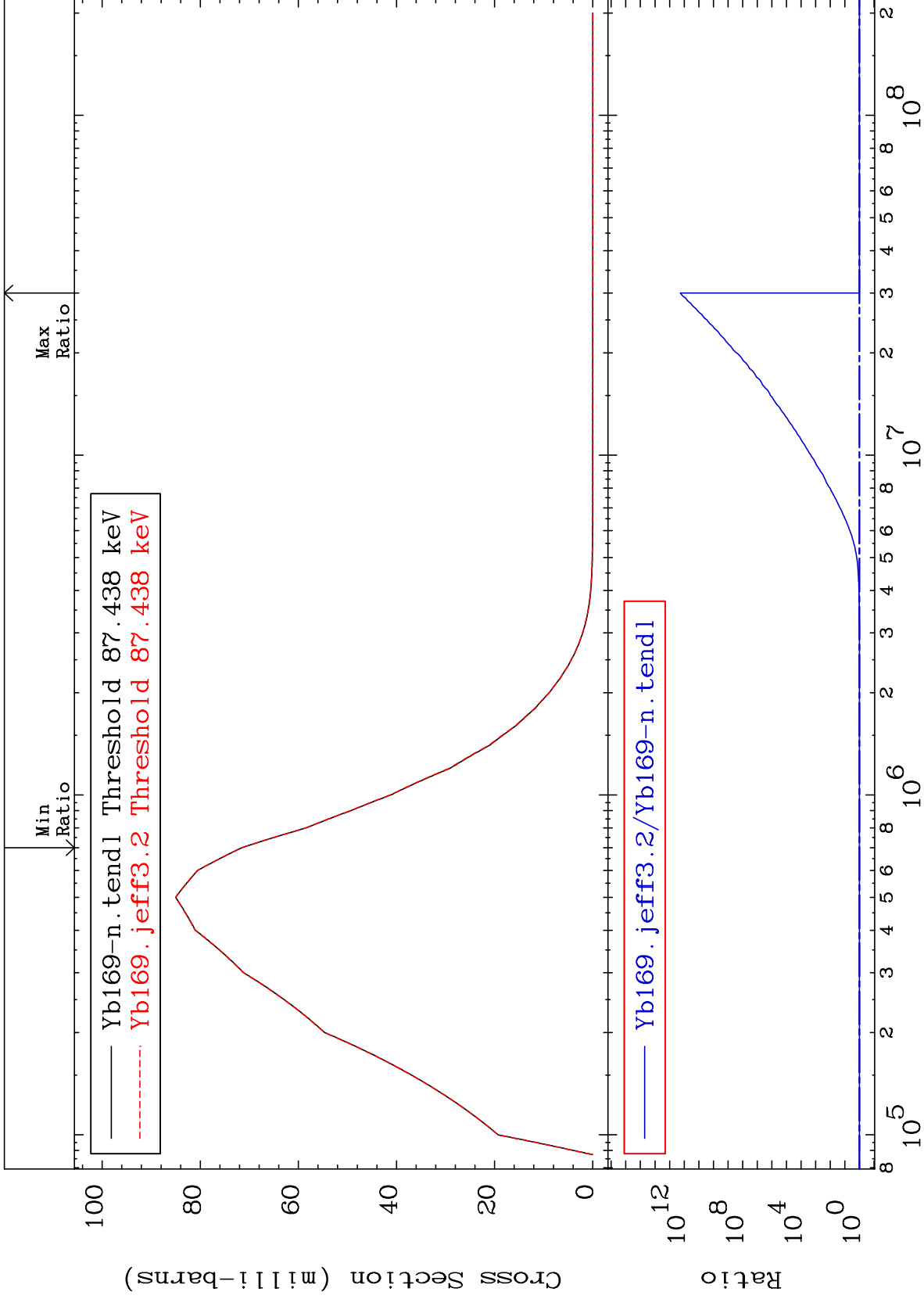
70-Yb-169
-0.005 To 9999. %



MAT 7028

86.92 keV (n,n') Level
Cross Section

70-Yb-169
-0.024 To 9999. %



23

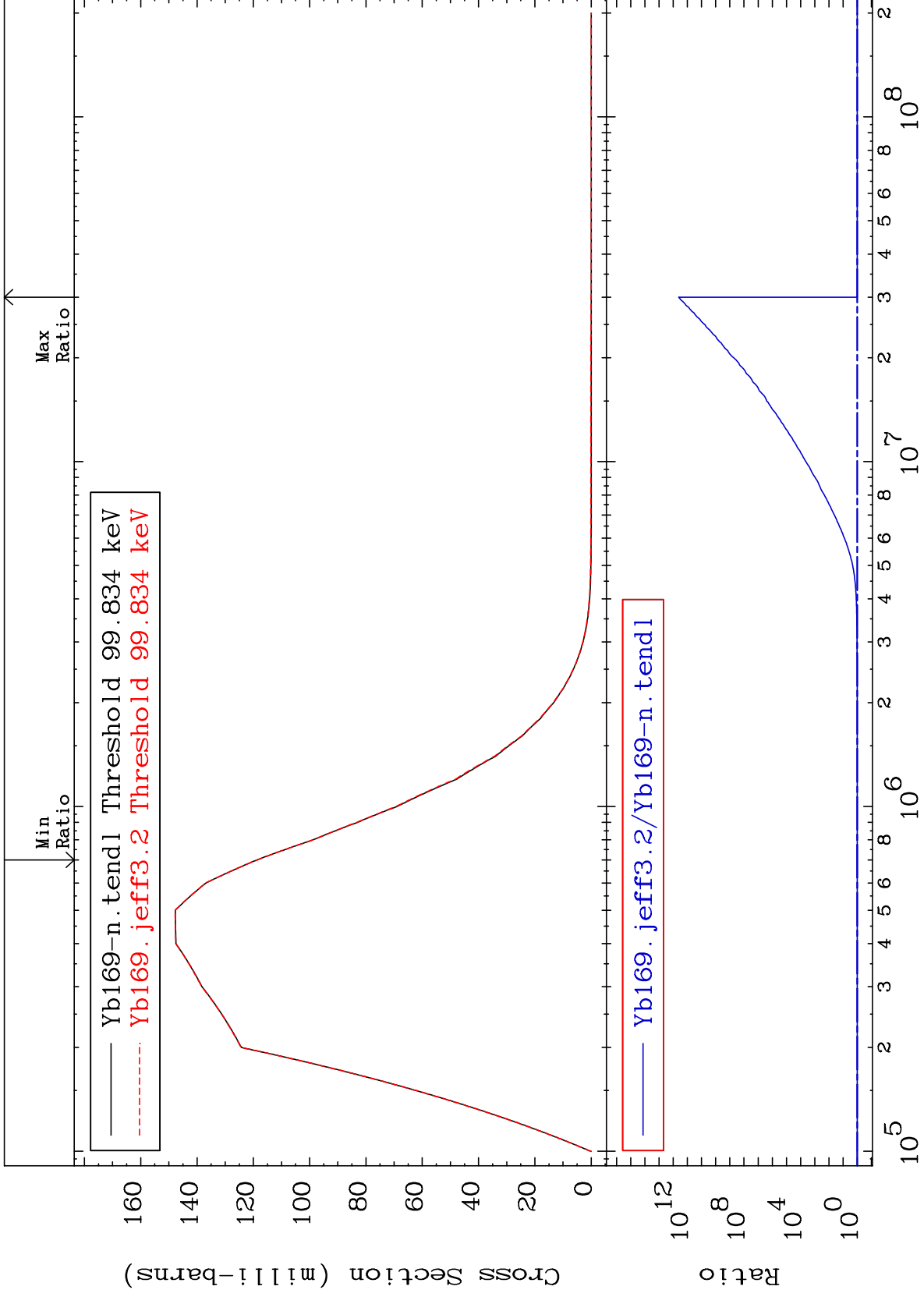
Incident Energy (eV)

70-Yb-169

MAT 7028

99.24 keV (n,n') Level
Cross Section

70-Yb-169
-0.029 To 9999. %



24

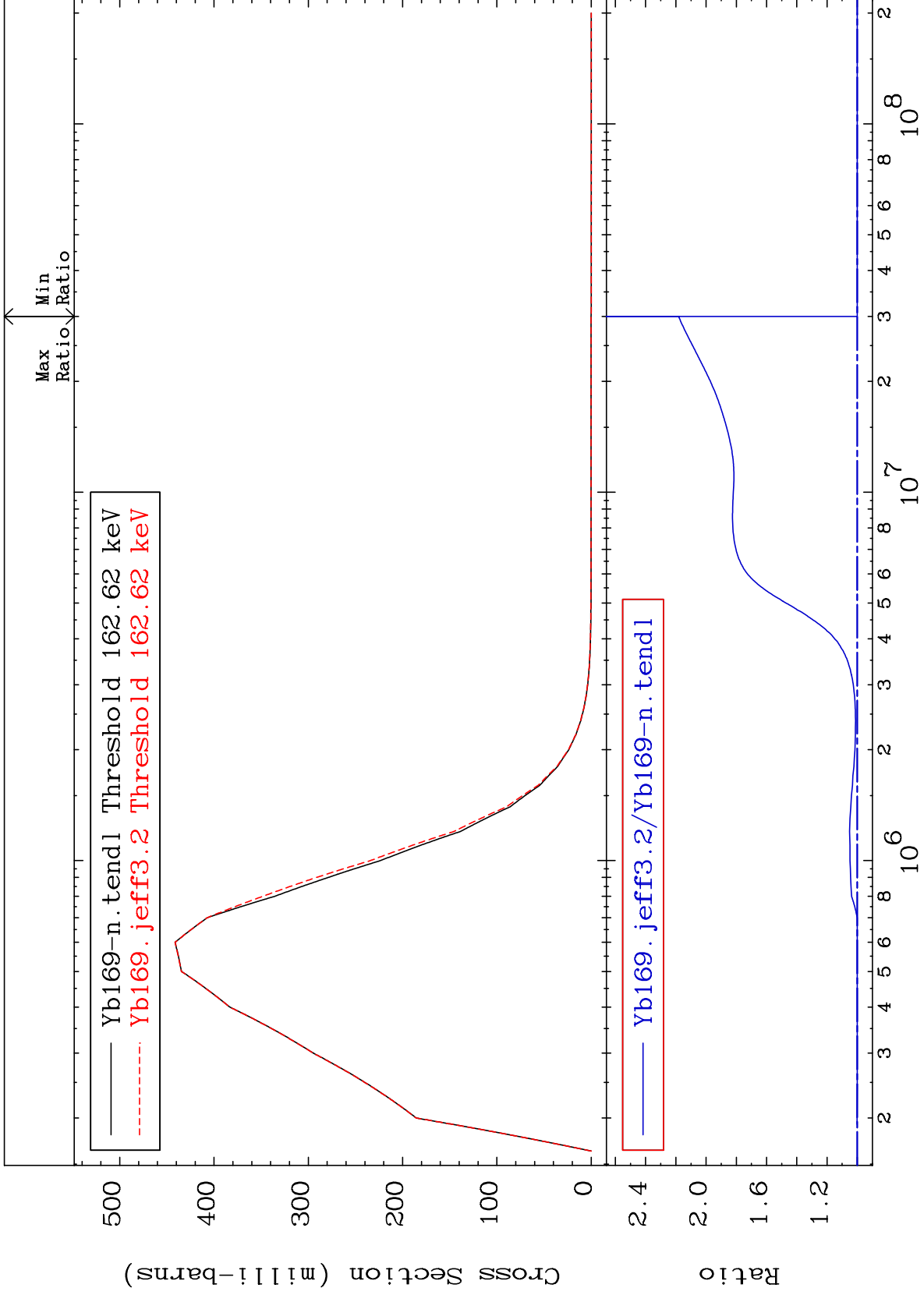
Incident Energy (eV)

70-Yb-169

MAT 7028

161.7 keV (n,n') Level
Cross Section

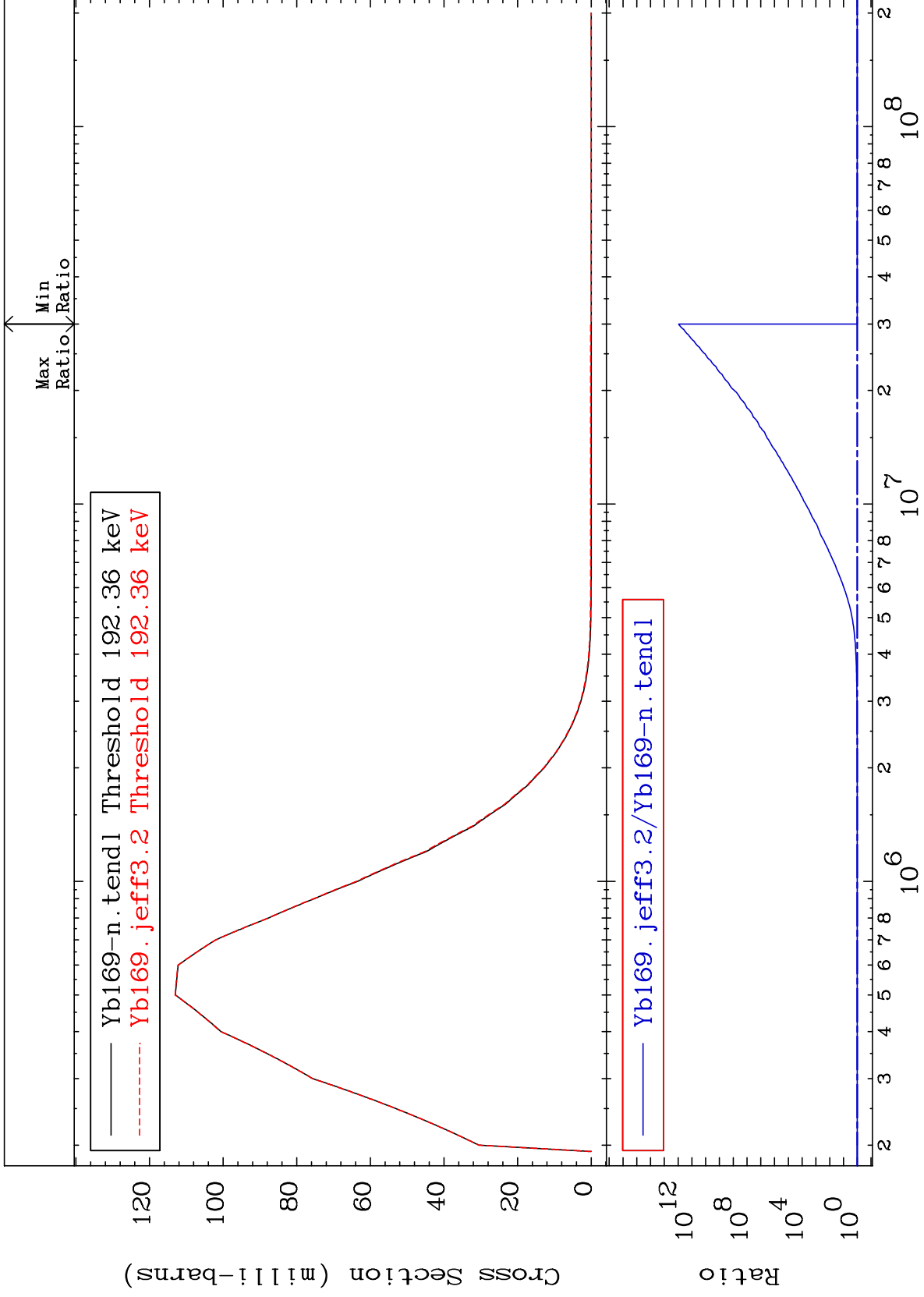
70-Yb-169
To 118.2 %



MAT 7028

191.2 keV (n,n') Level
Cross Section

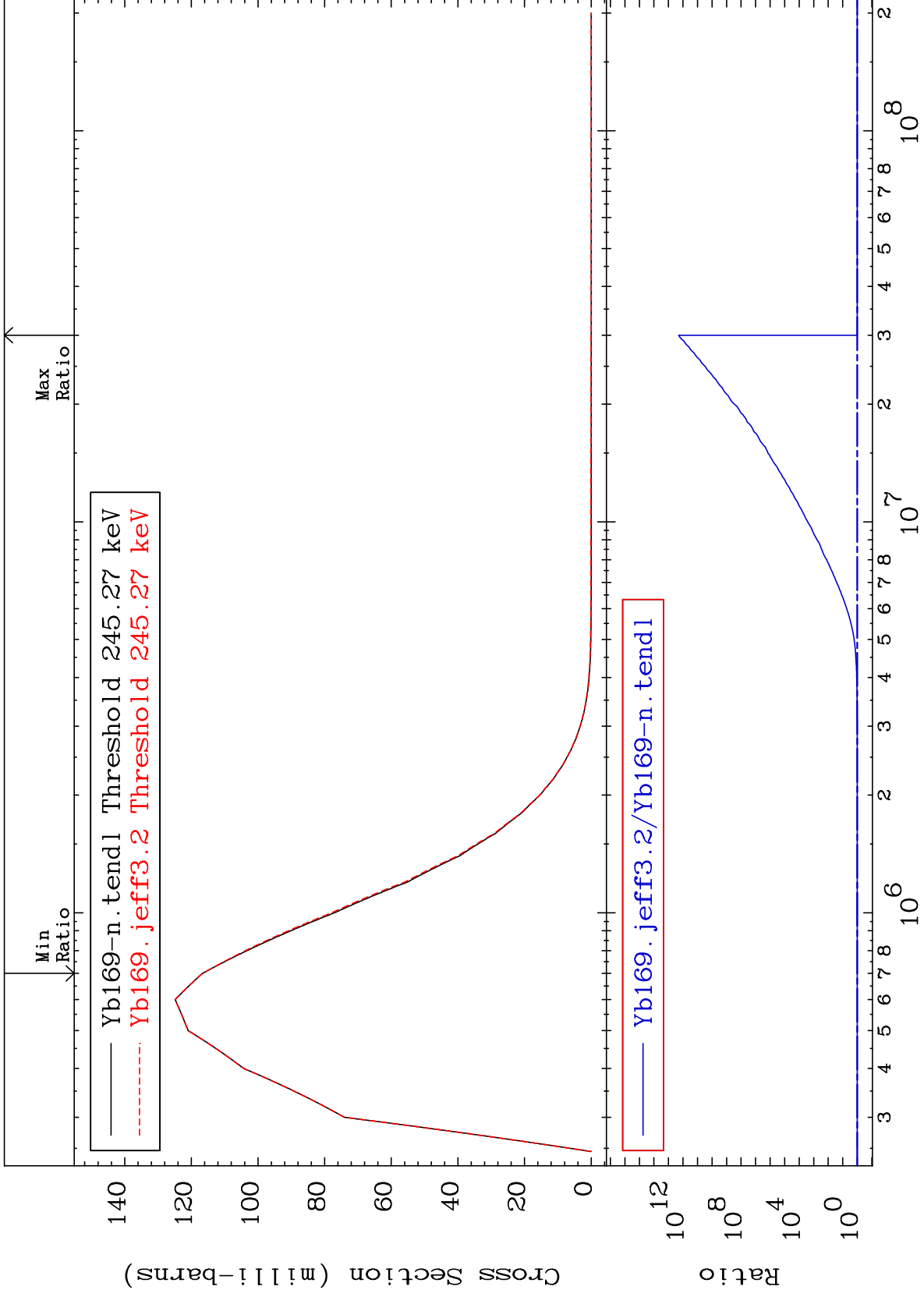
70-Yb-169
To 9999. %

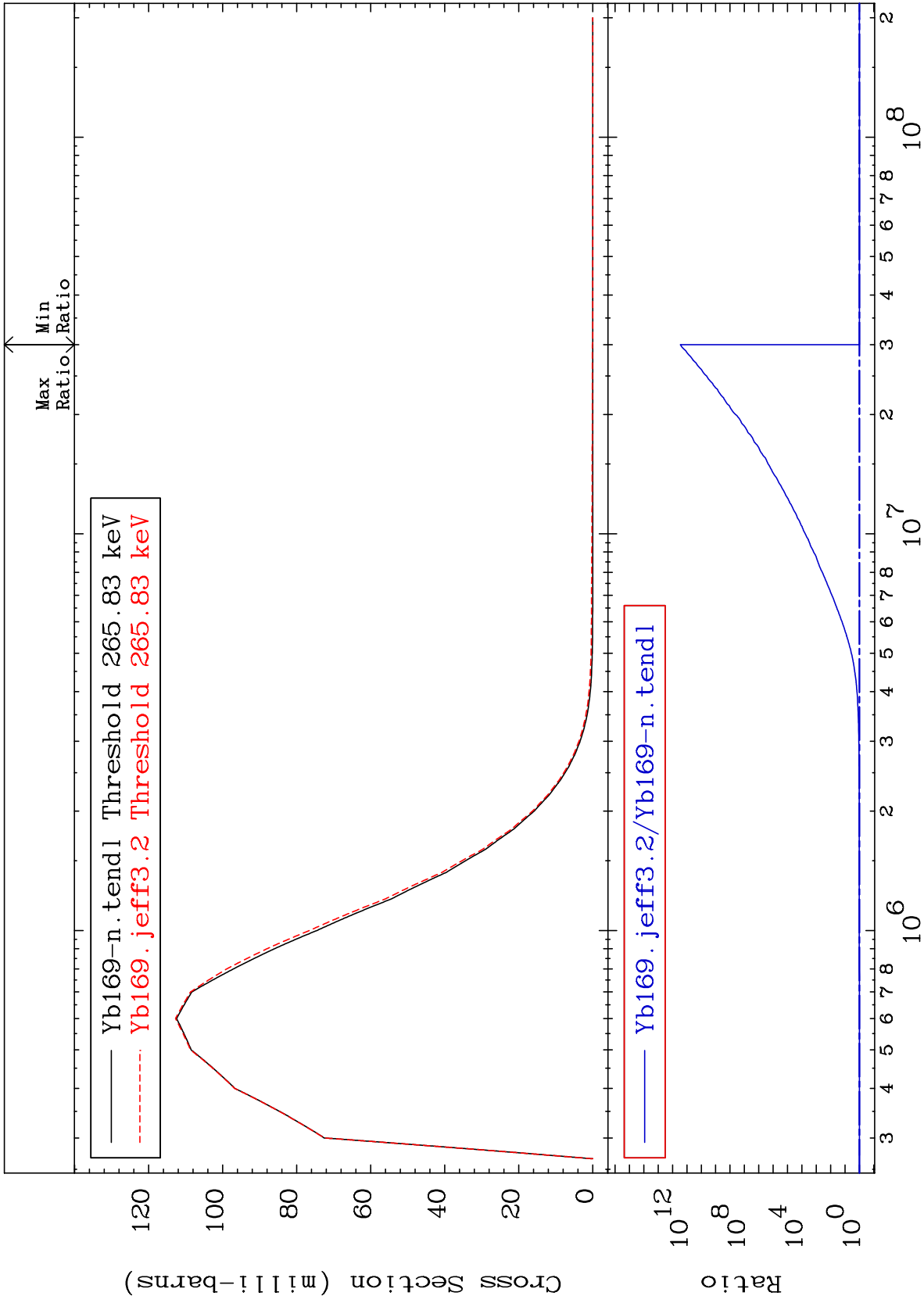


MAT 7028

243.8 keV (n,n') Level
Cross Section

70-Yb-169
-0.045 To 9999. %

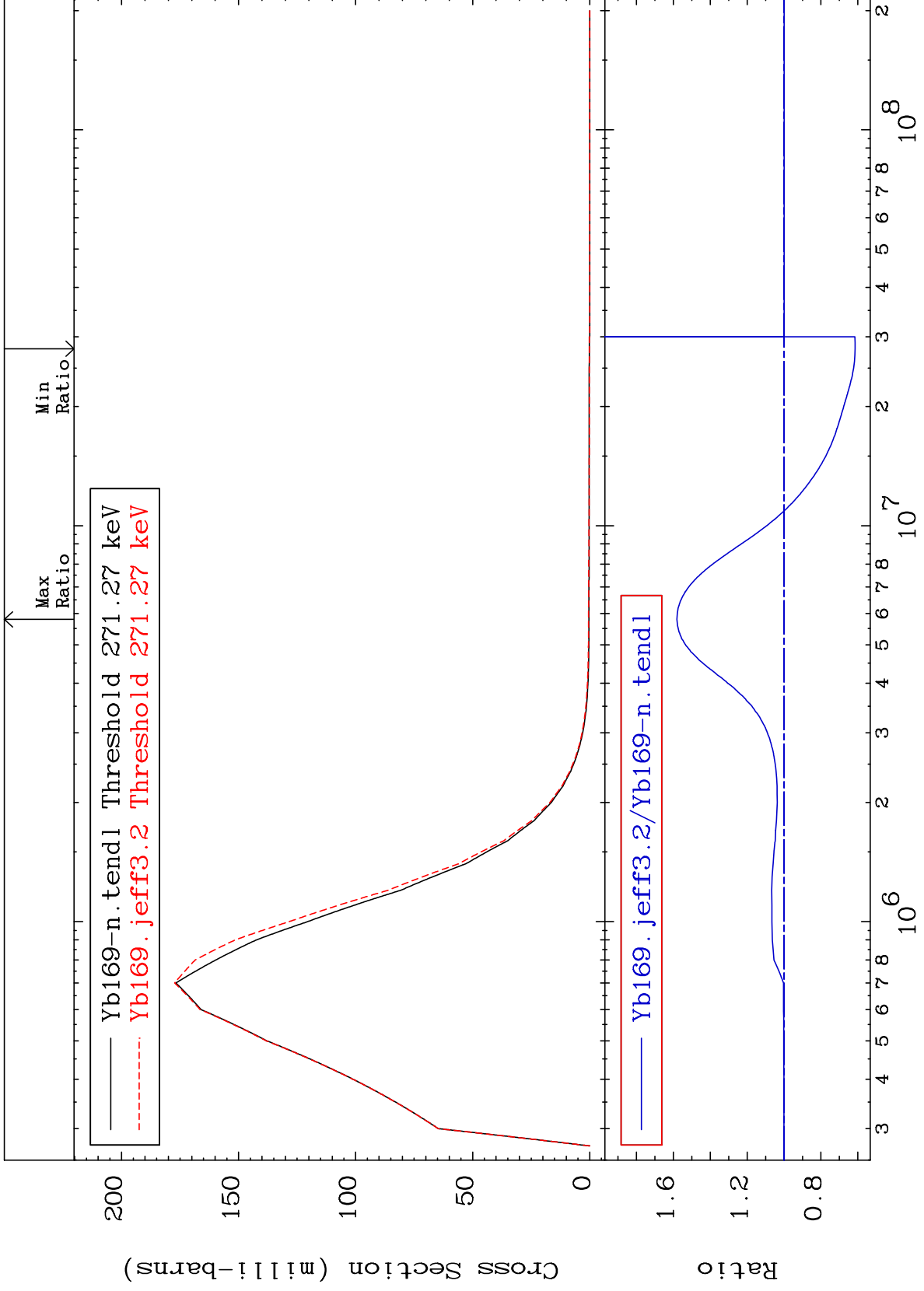




MAT 7028

269.7 keV (n,n') Level
Cross Section

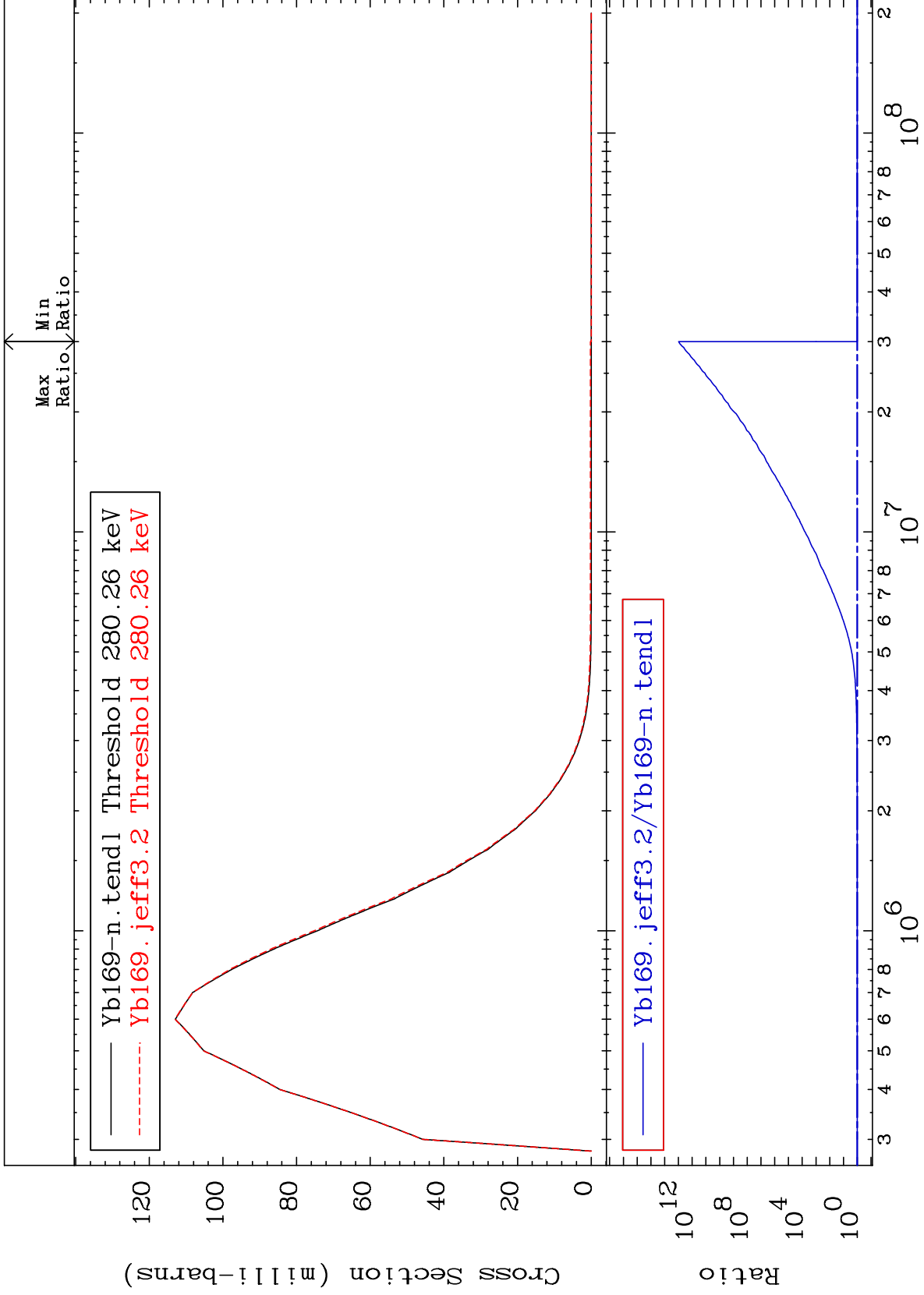
70-Yb-169
-38.50 To 58.04 %



MAT 7028

278.6 keV (n,n') Level
Cross Section

70-Yb-169
To 9999. %



30

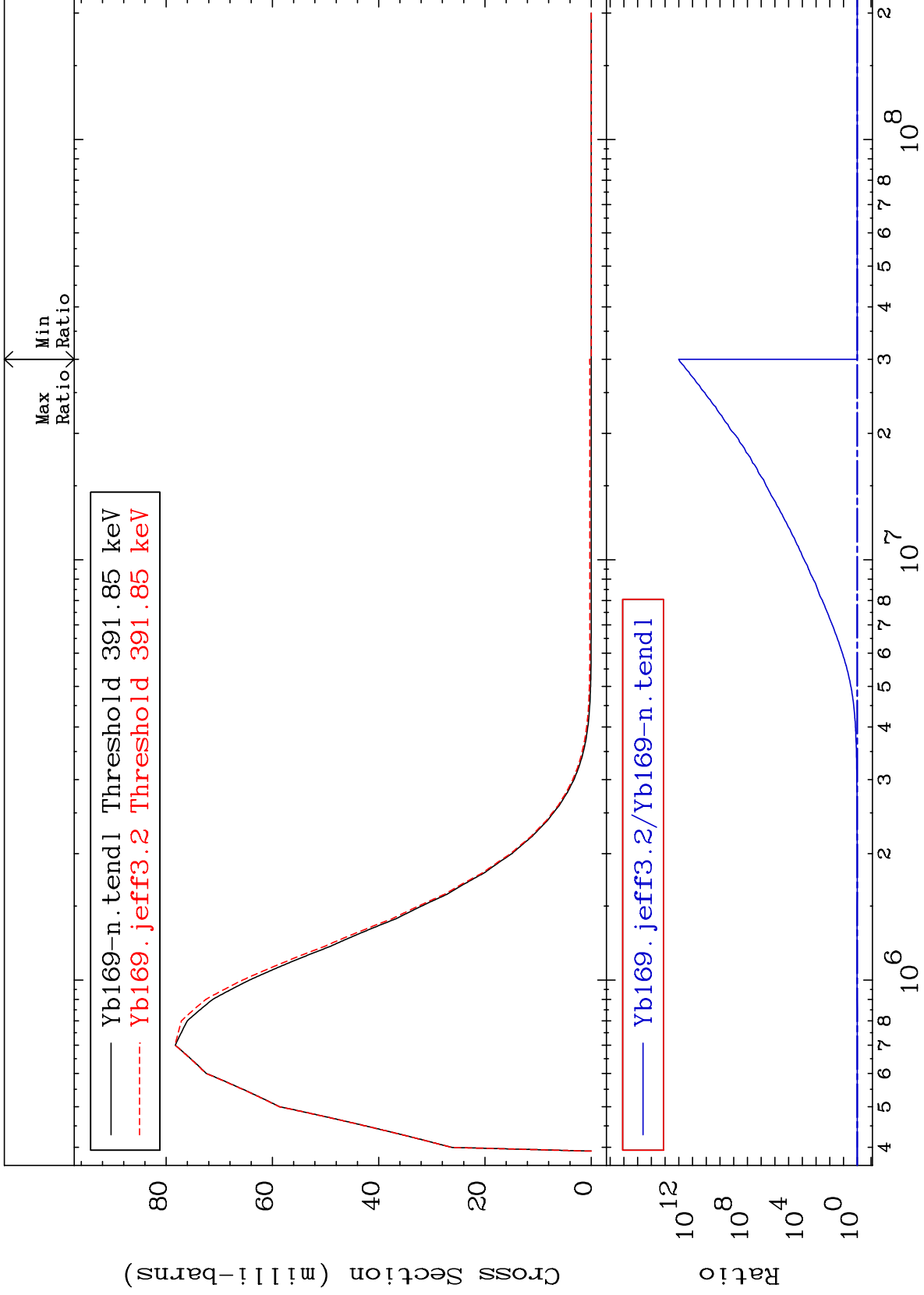
Incident Energy (eV)

70-Yb-169

MAT 7028

389.5 keV (n,n') Level
Cross Section

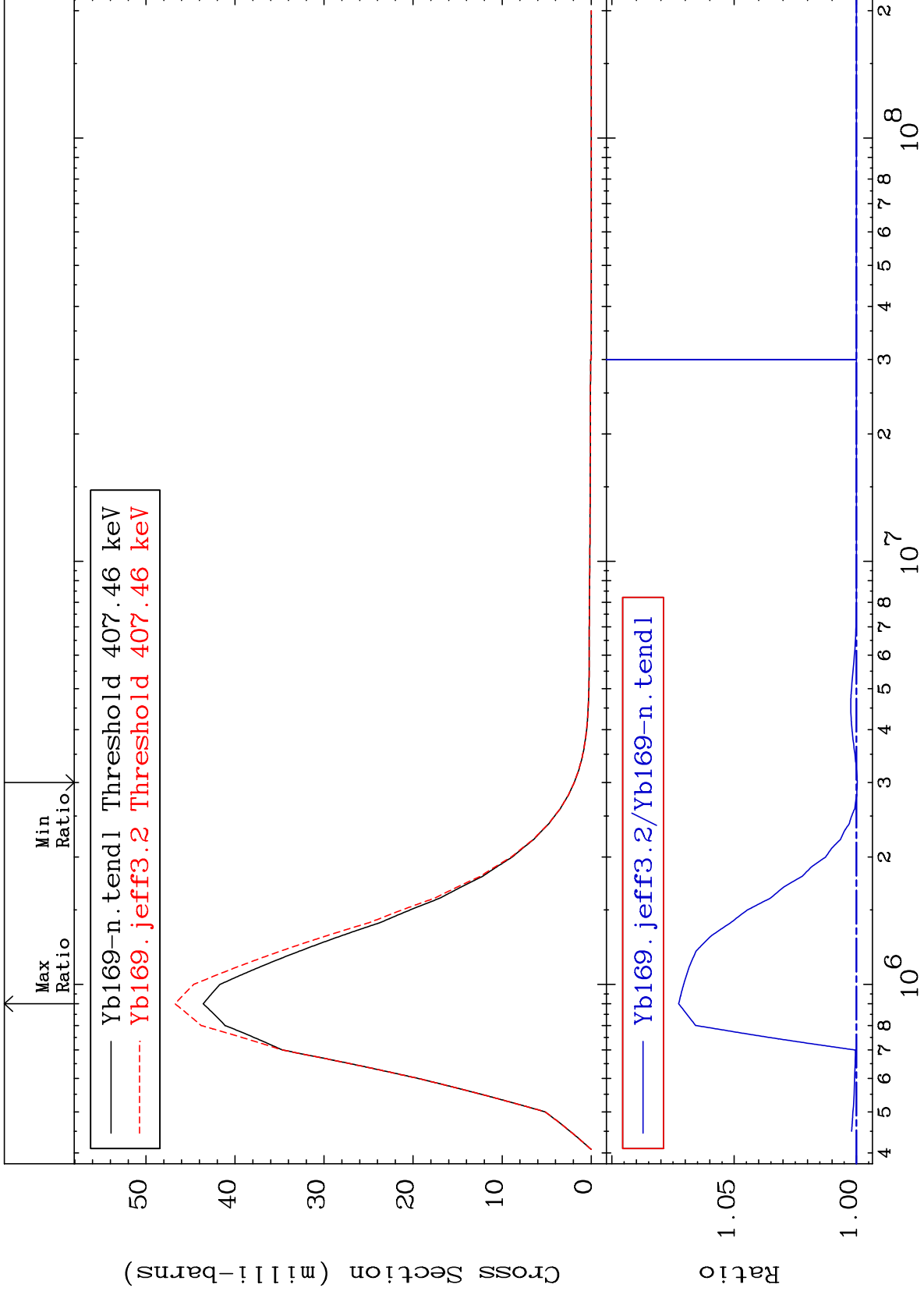
70-Yb-169
To 9999. %

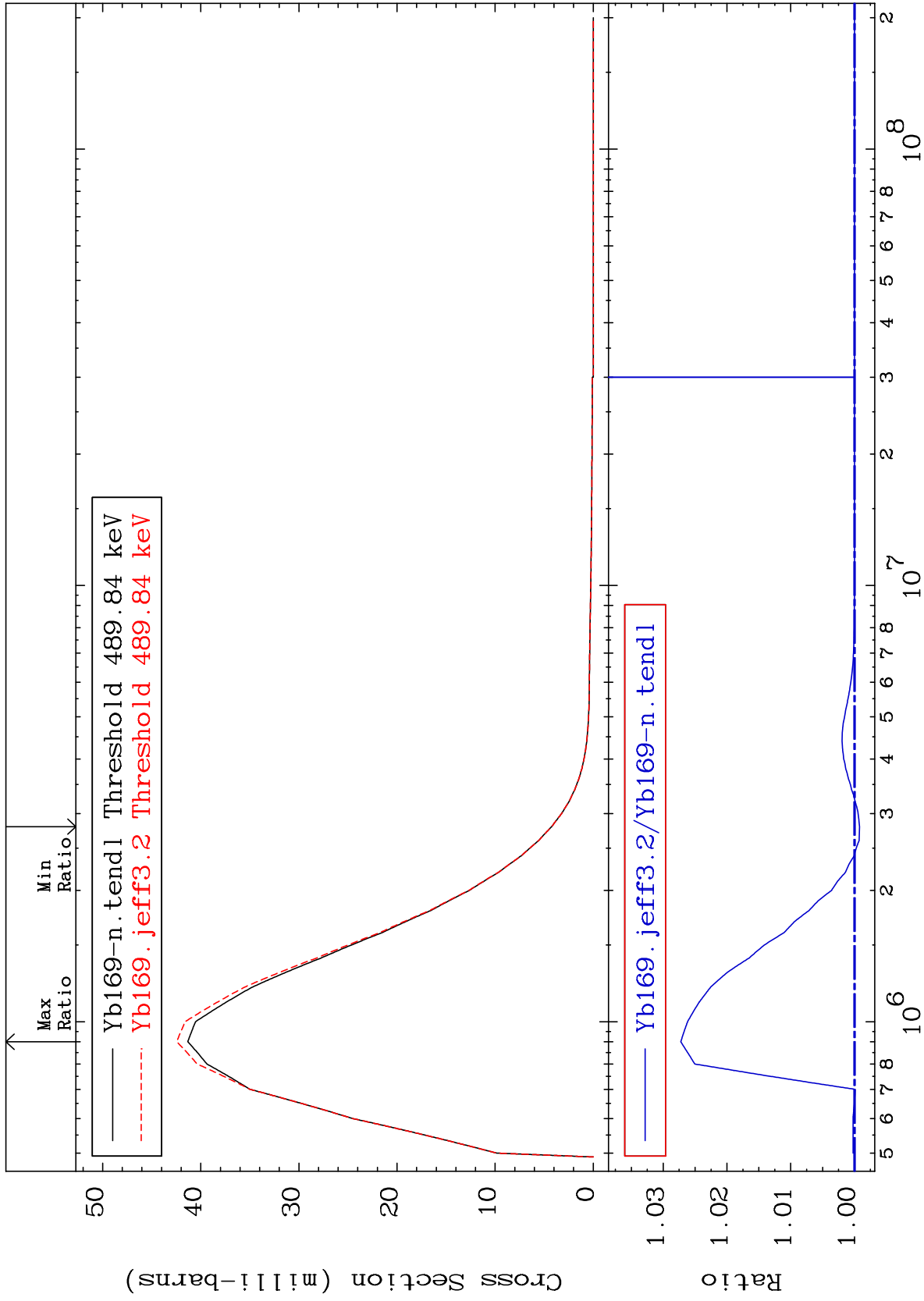


MAT 7028

405.0 keV (n,n') Level
Cross Section

70-Yb-169
-0.032 To 7.272 %





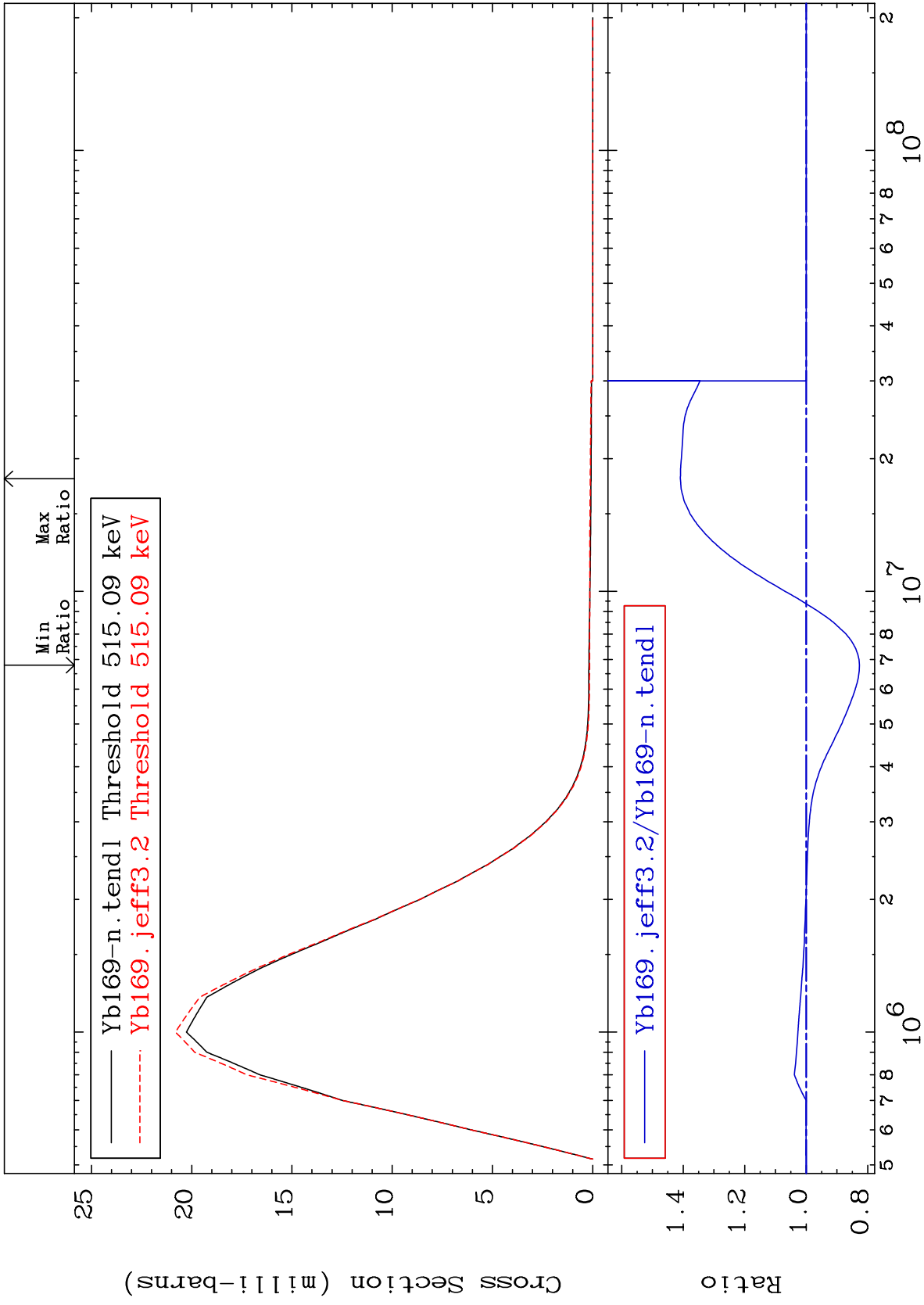
MAT 7028

512.0 keV (n,n') Level

70-Yb-169

-17.30 To 40.92 %

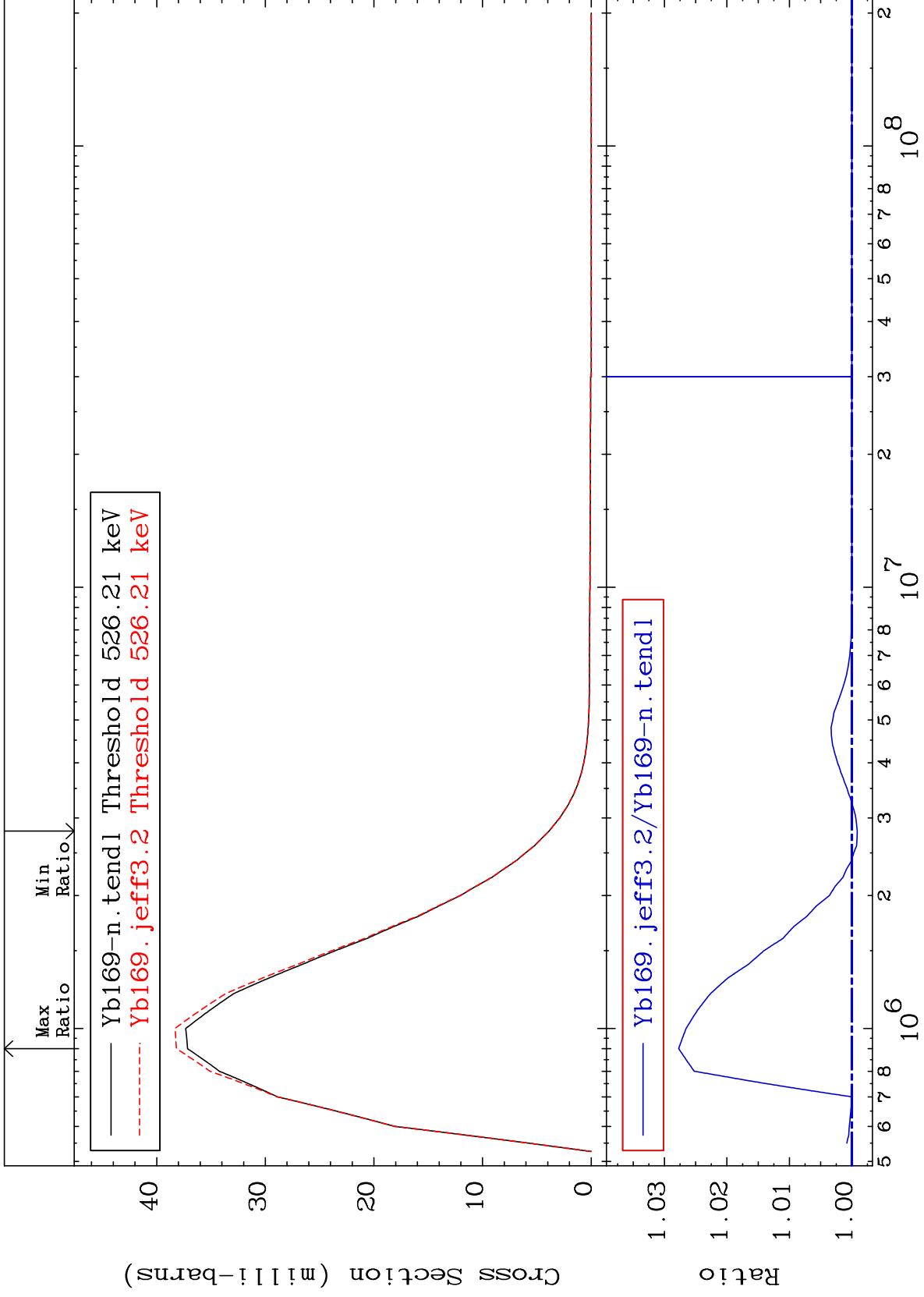
Cross Section



MAT 7028

523.1 keV (n,n') Level
Cross Section

70-Yb-169
-0.086 To 2.773 %



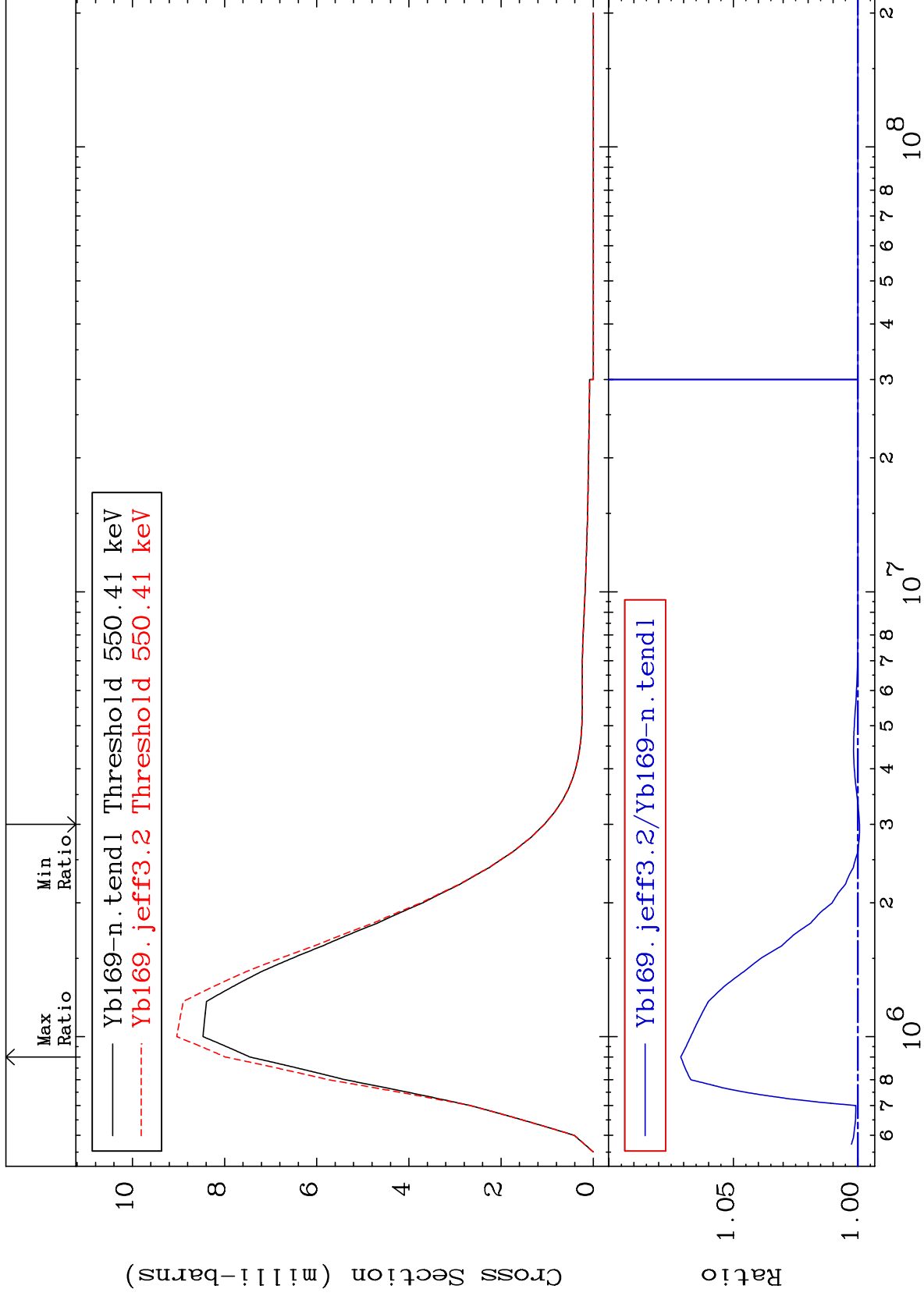
MAT 7028

547.1 keV (n,n') Level

70-Yb-169

Cross Section

-0.065 To 7.115 %

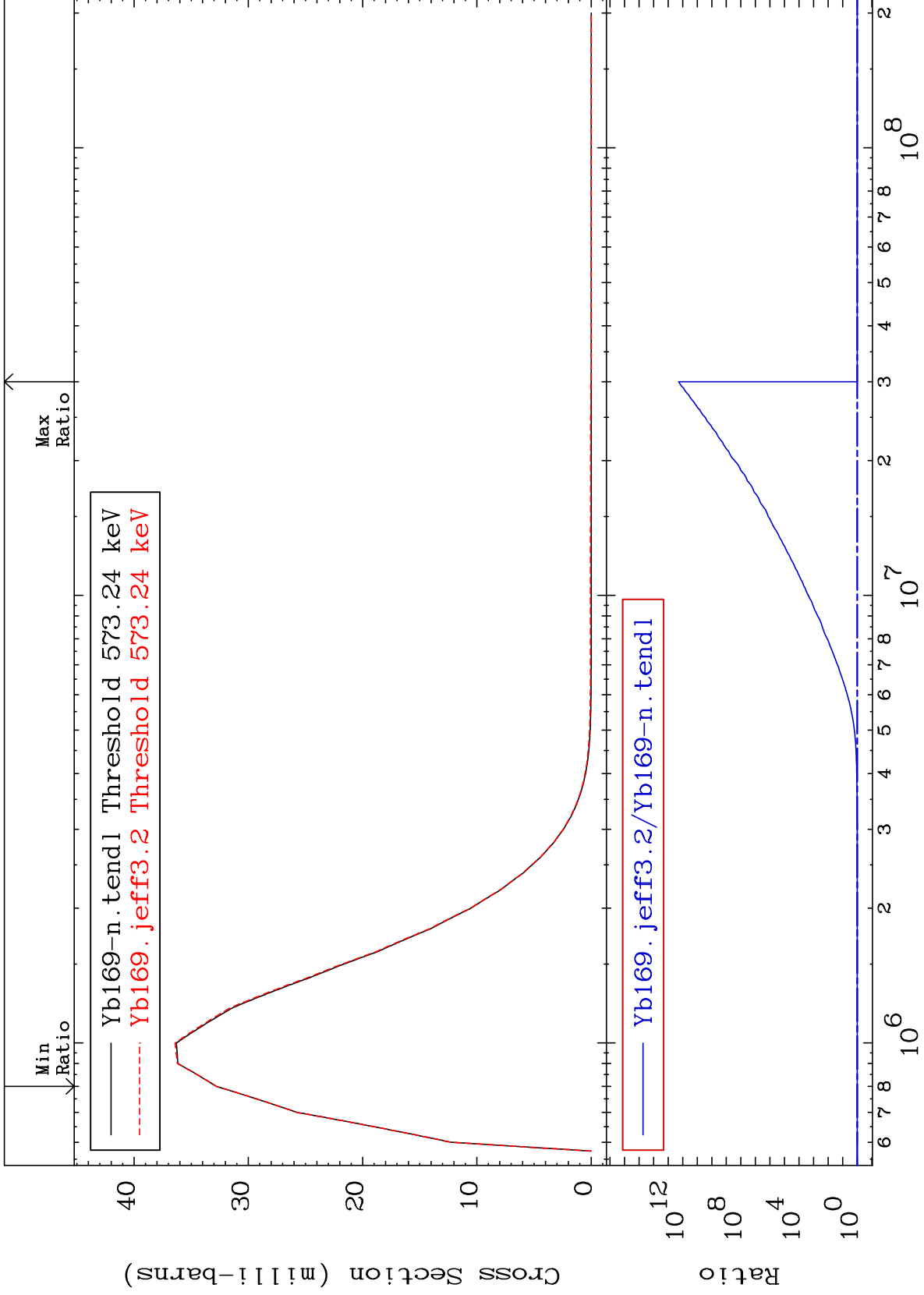


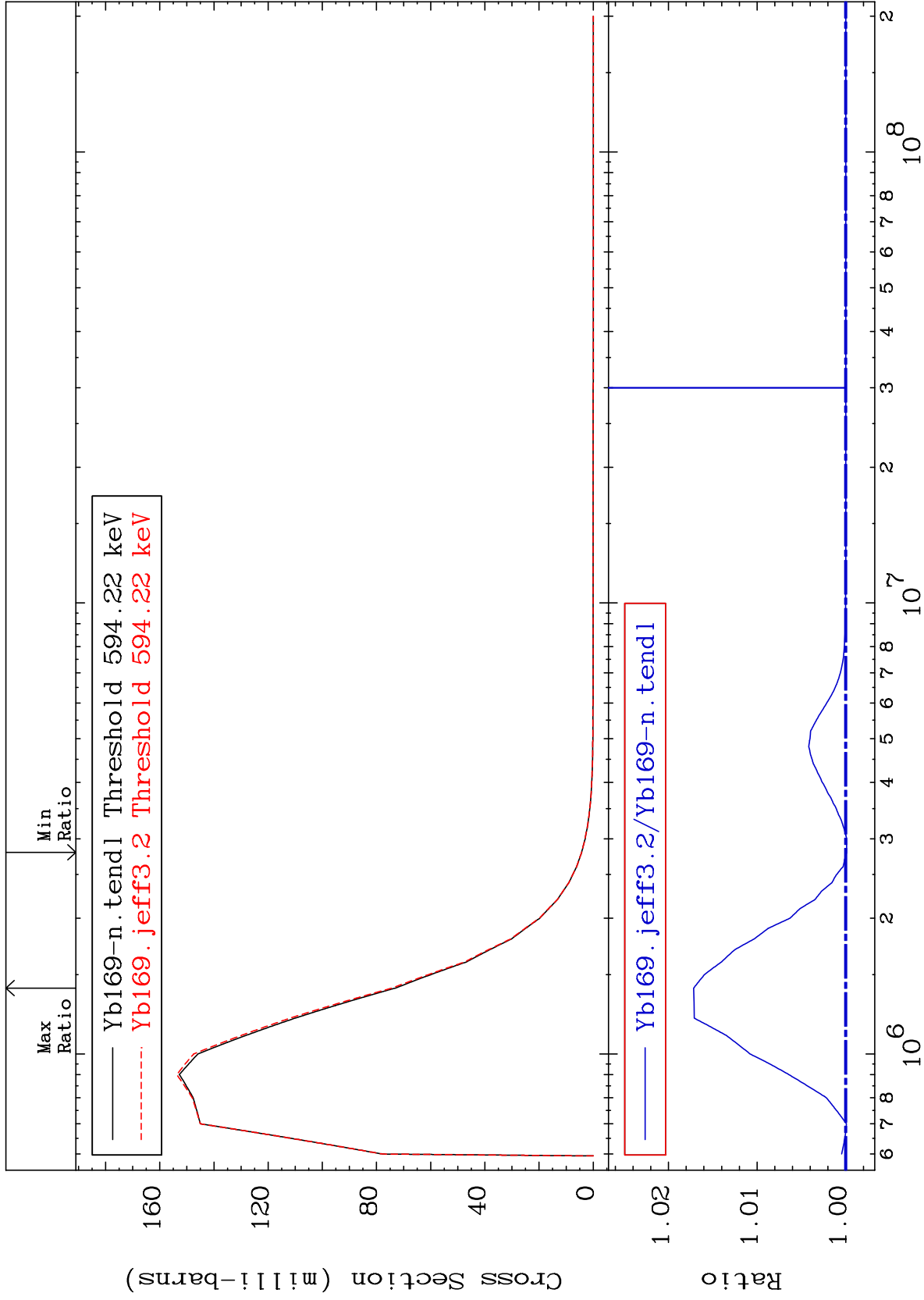
36

MAT 7028

569.8 keV (n,n') Level
Cross Section

70-Yb-169
-0.055 To 9999. %

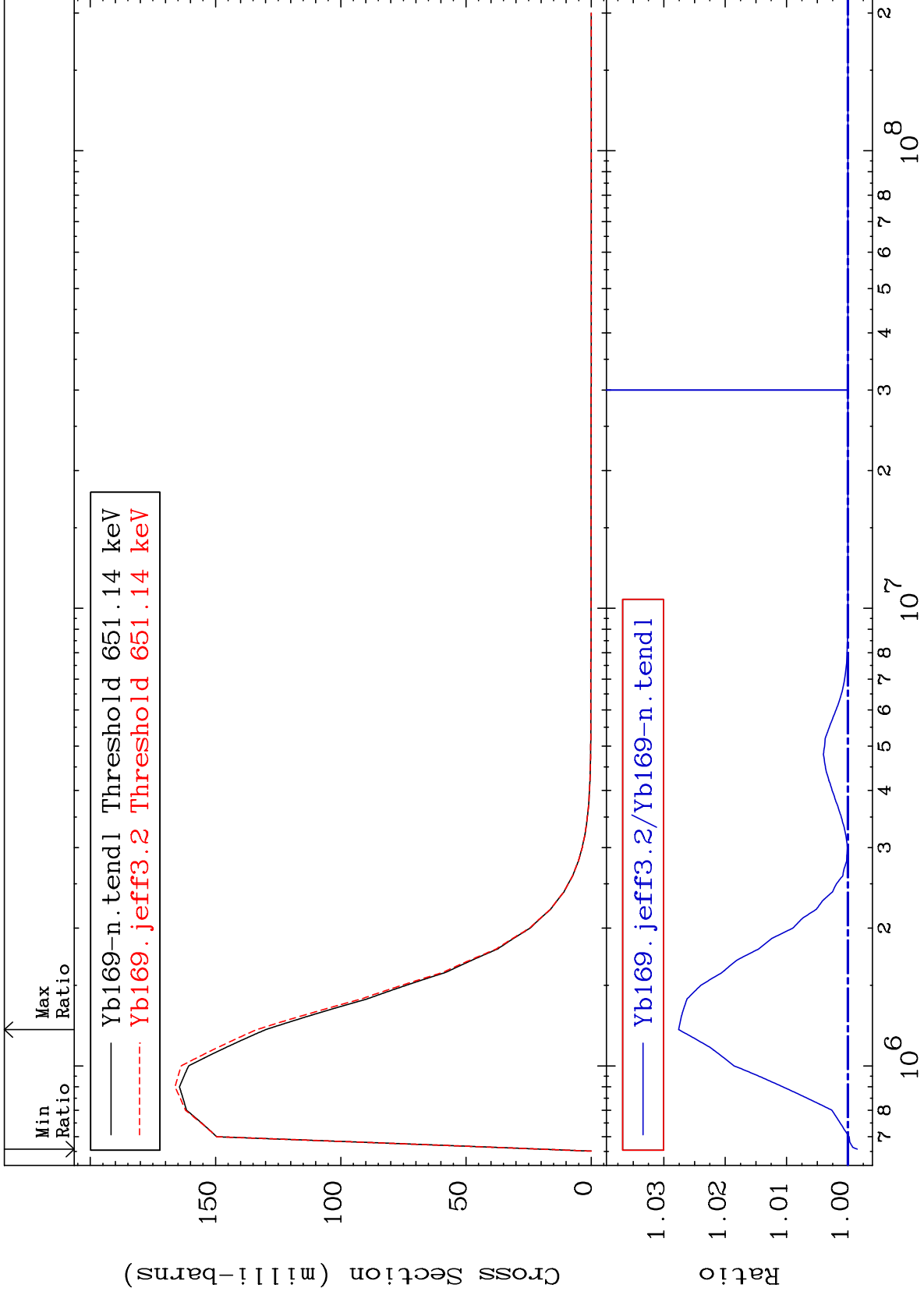




MAT 7028

647.3 keV (n,n') Level
Cross Section

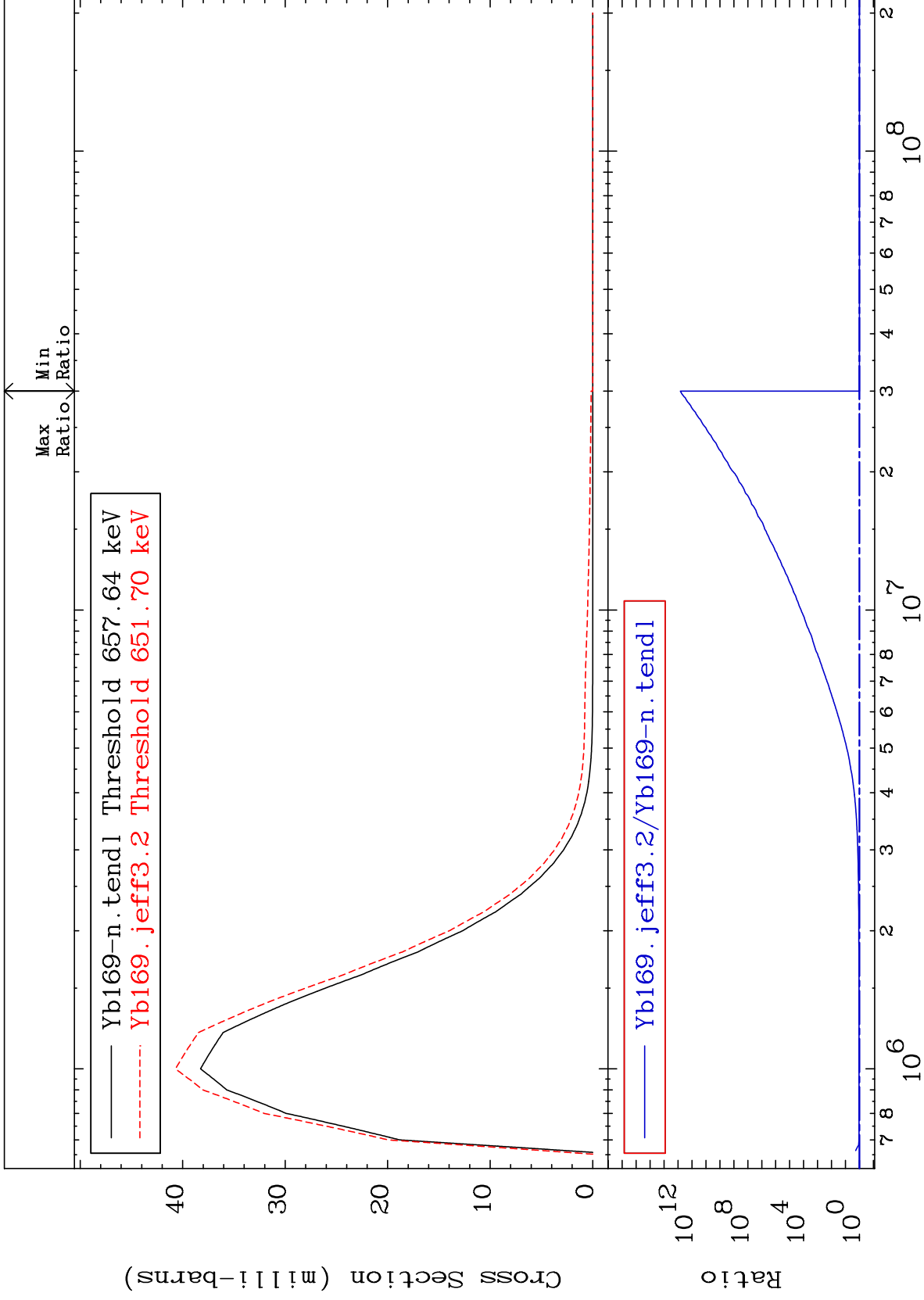
70-Yb-169
-0.152 To 2.759 %



MAT 7028

653.7 keV (n,n') Level
Cross Section

70-Yb-169
To 9999. %
0.000



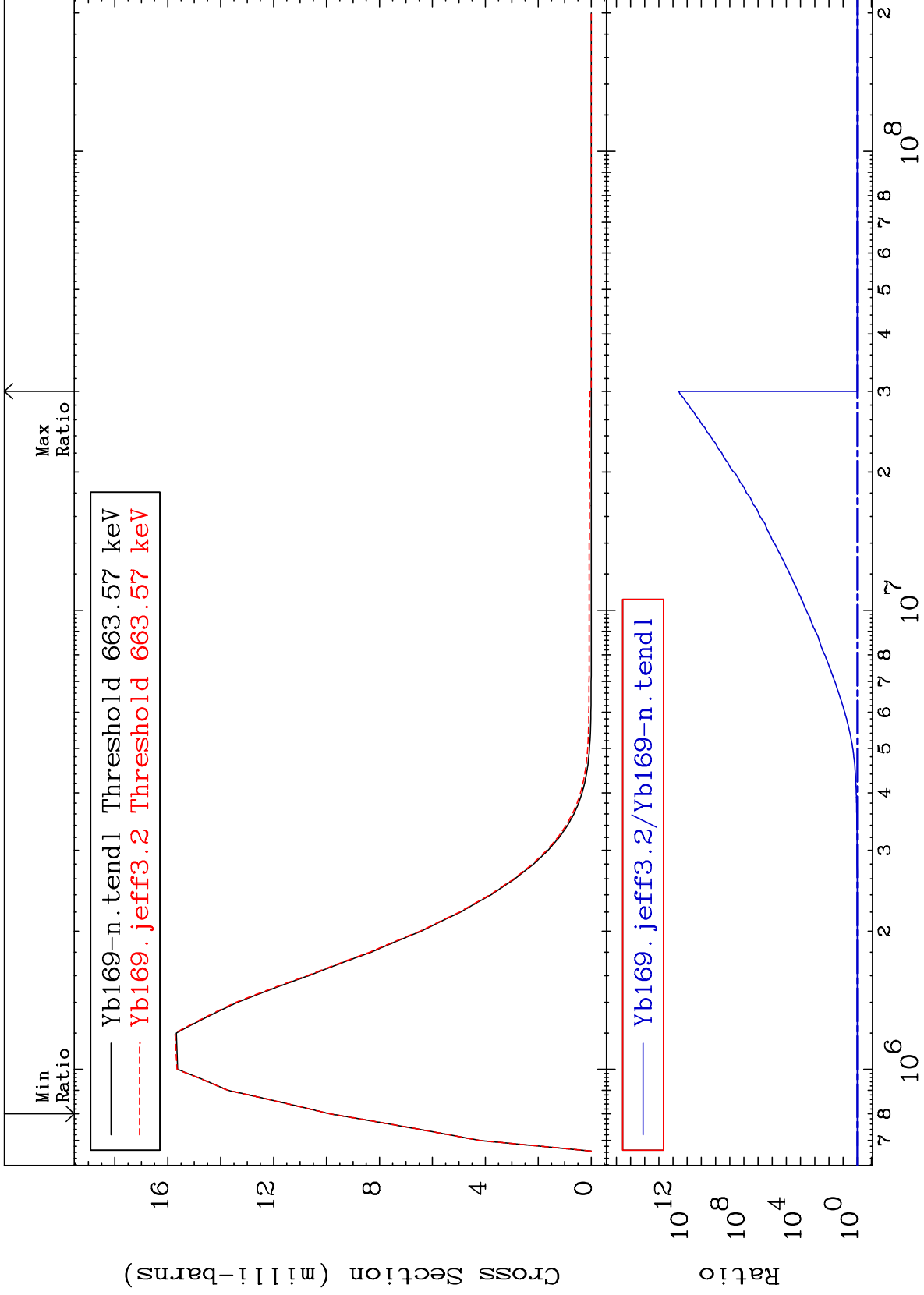
40

70-Yb-169

MAT 7028

659.6 keV (n,n') Level
Cross Section

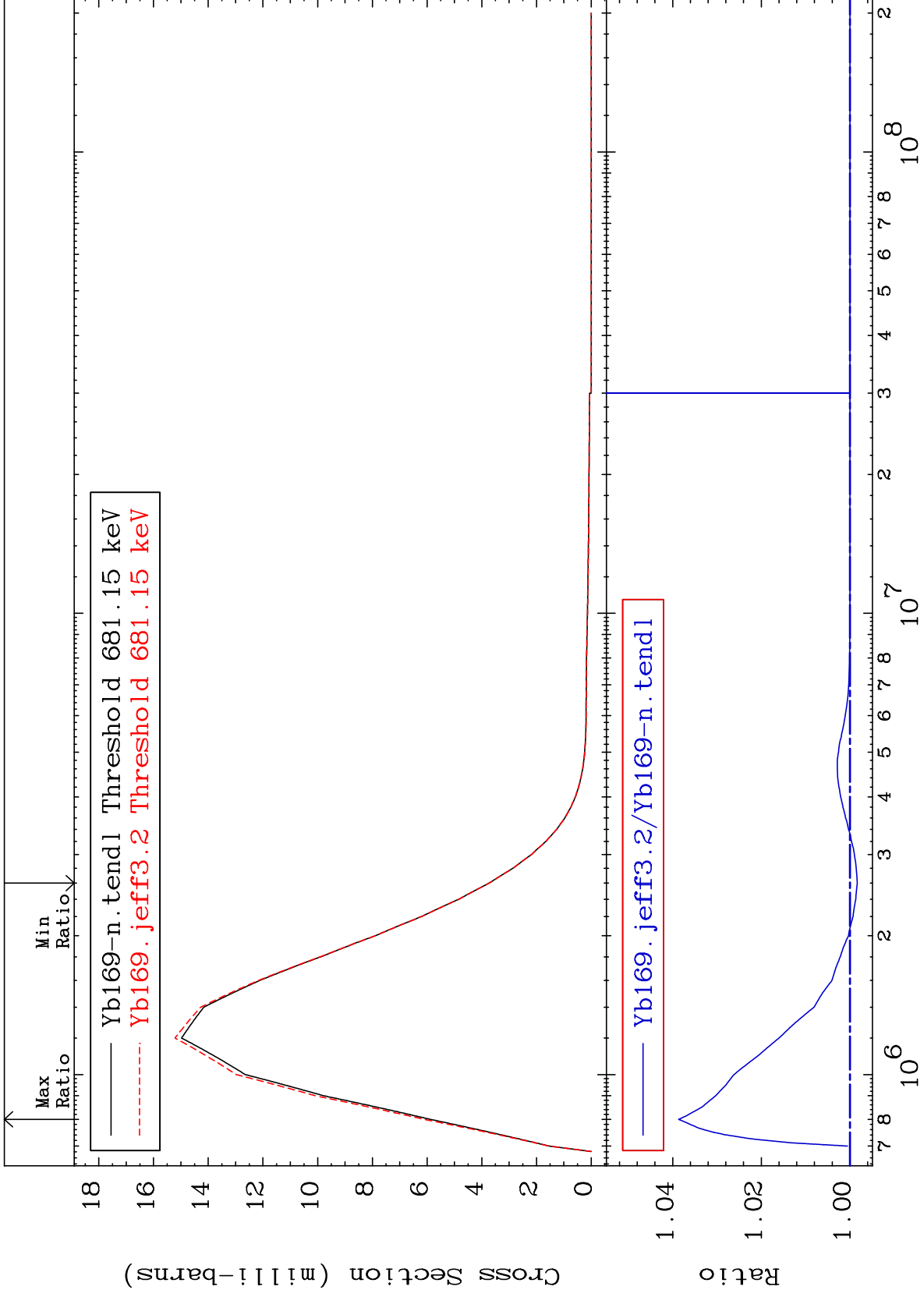
70-Yb-169
-0.020 To 9999. %



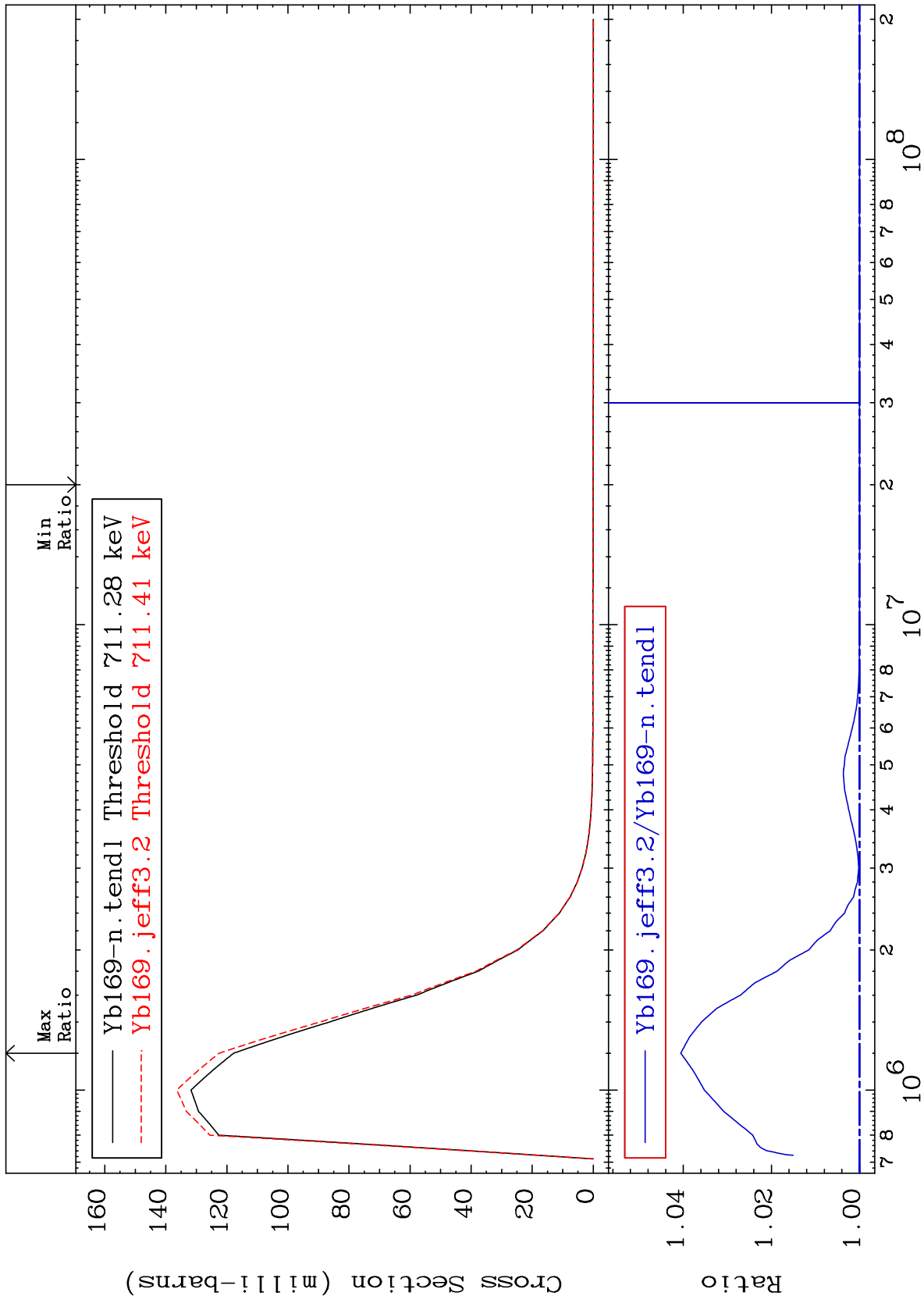
MAT 7028

6777.1 keV (n,n') Level
Cross Section

70-Yb-169
-0.166 To 3.866 %



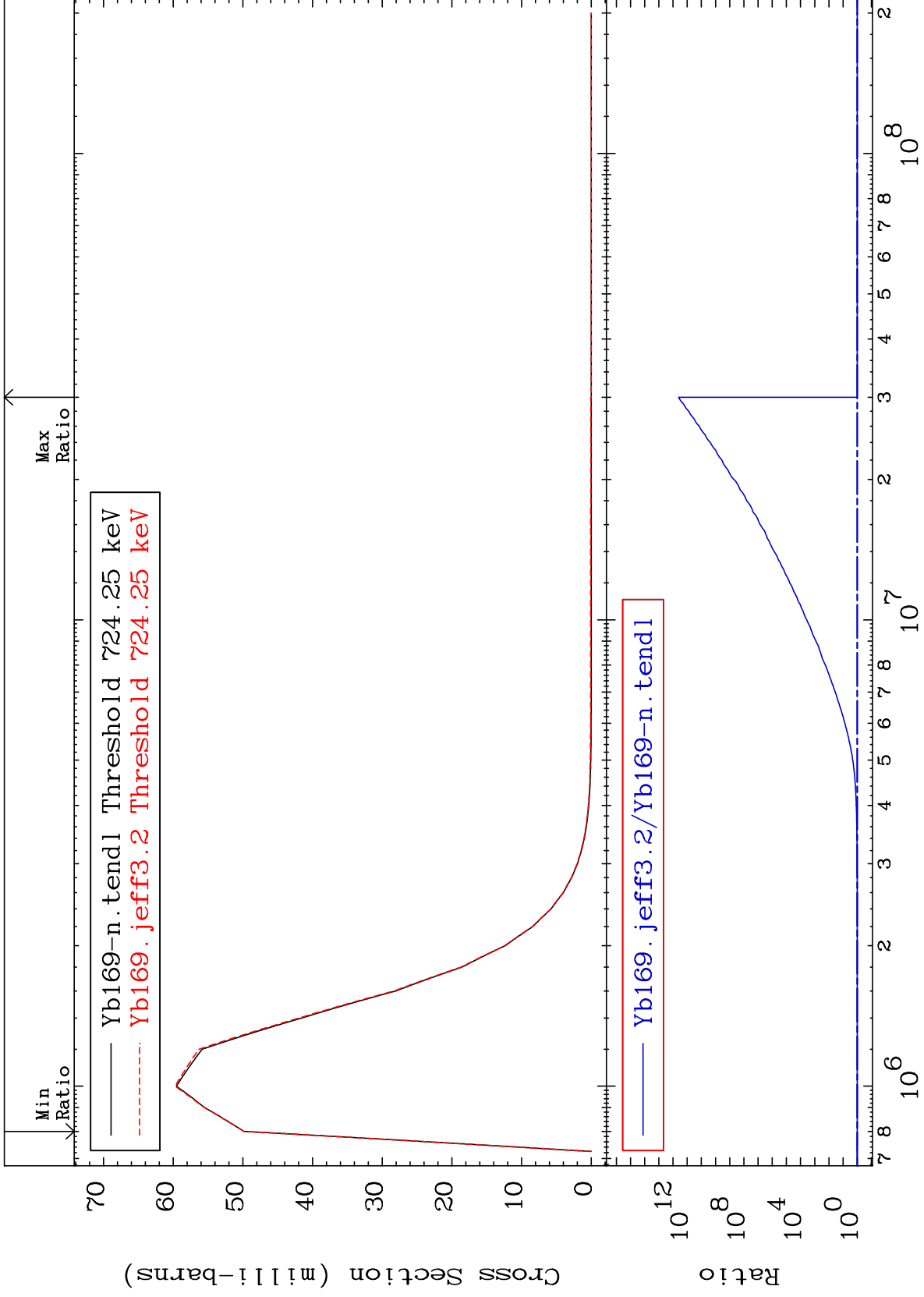
MAT 7028 707.1 keV (n,n') Level
Cross Section 70-Yb-169
0.000 To 4.057 %



MAT 7028

720.0 keV (n,n') Level
Cross Section

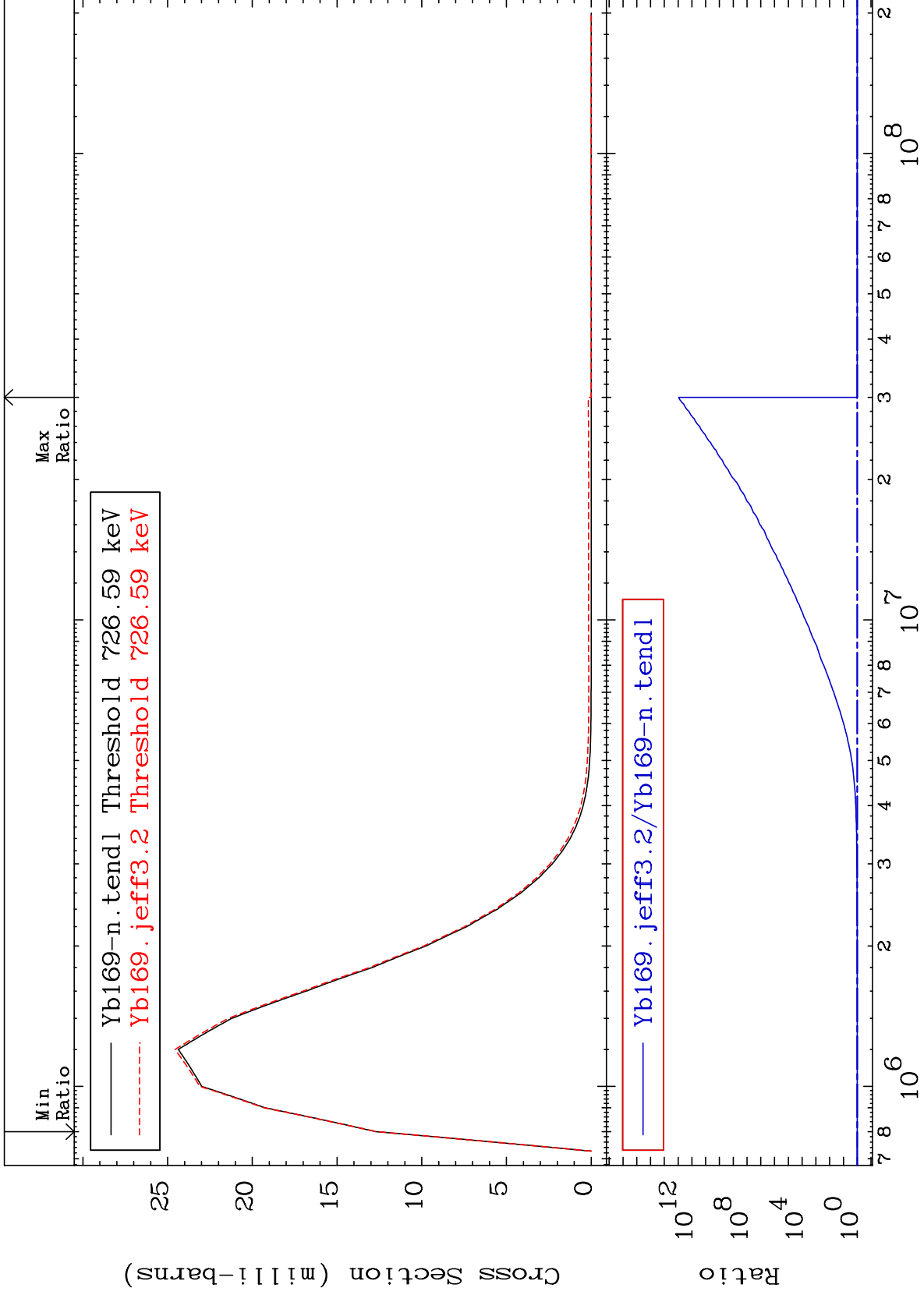
70-Yb-169
-0.014 To 9999. %



MAT 7028

722.3 keV (n,n') Level
Cross Section

70-Yb-169
-0.083 To 9999. %



45

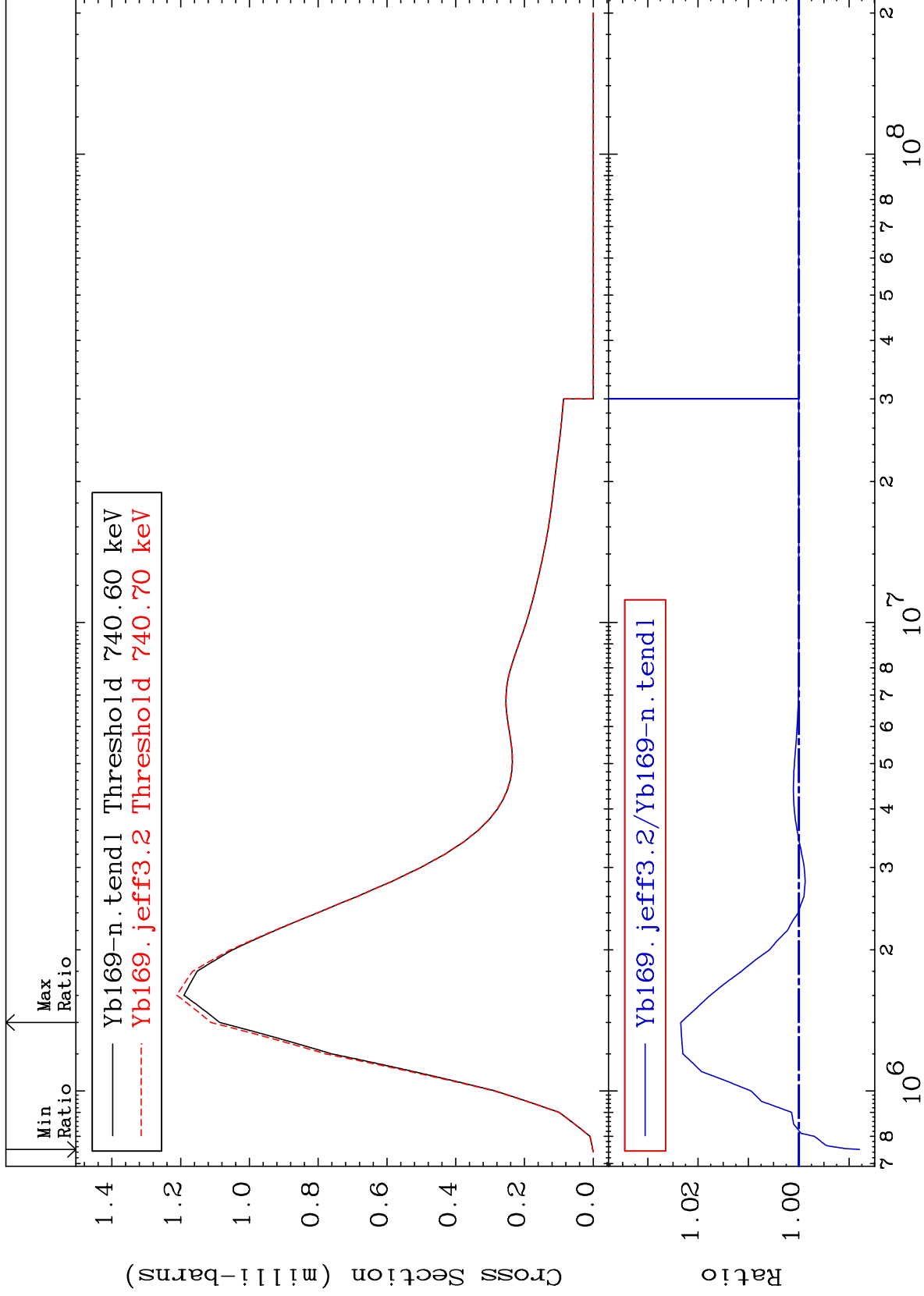
Incident Energy (eV)

70-Yb-169

MAT 7028

736.2 keV (n,n') Level
Cross Section

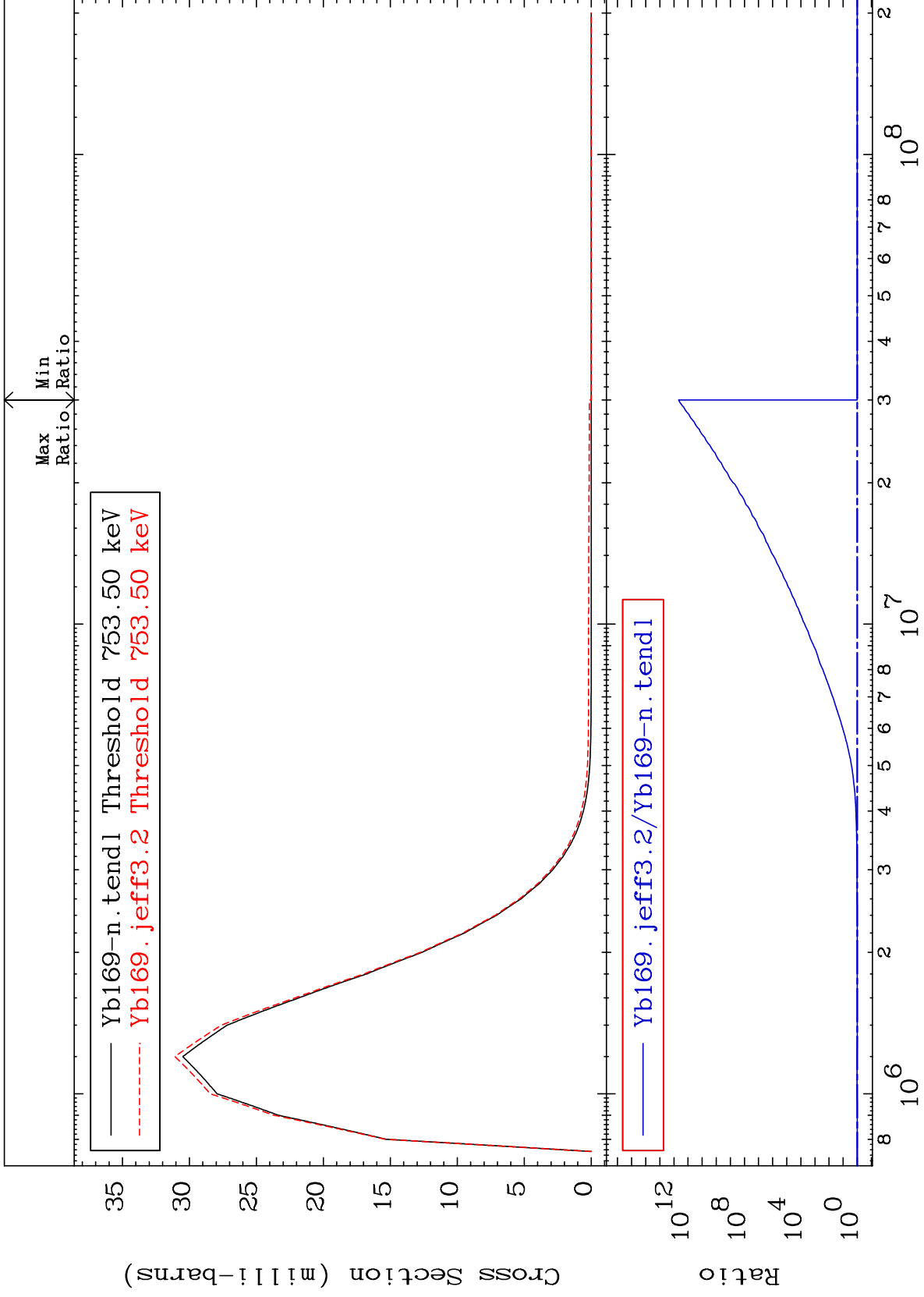
70-Yb-169
-1.205 To 2.344 %



MAT 7028

749.0 keV (n,n') Level
Cross Section

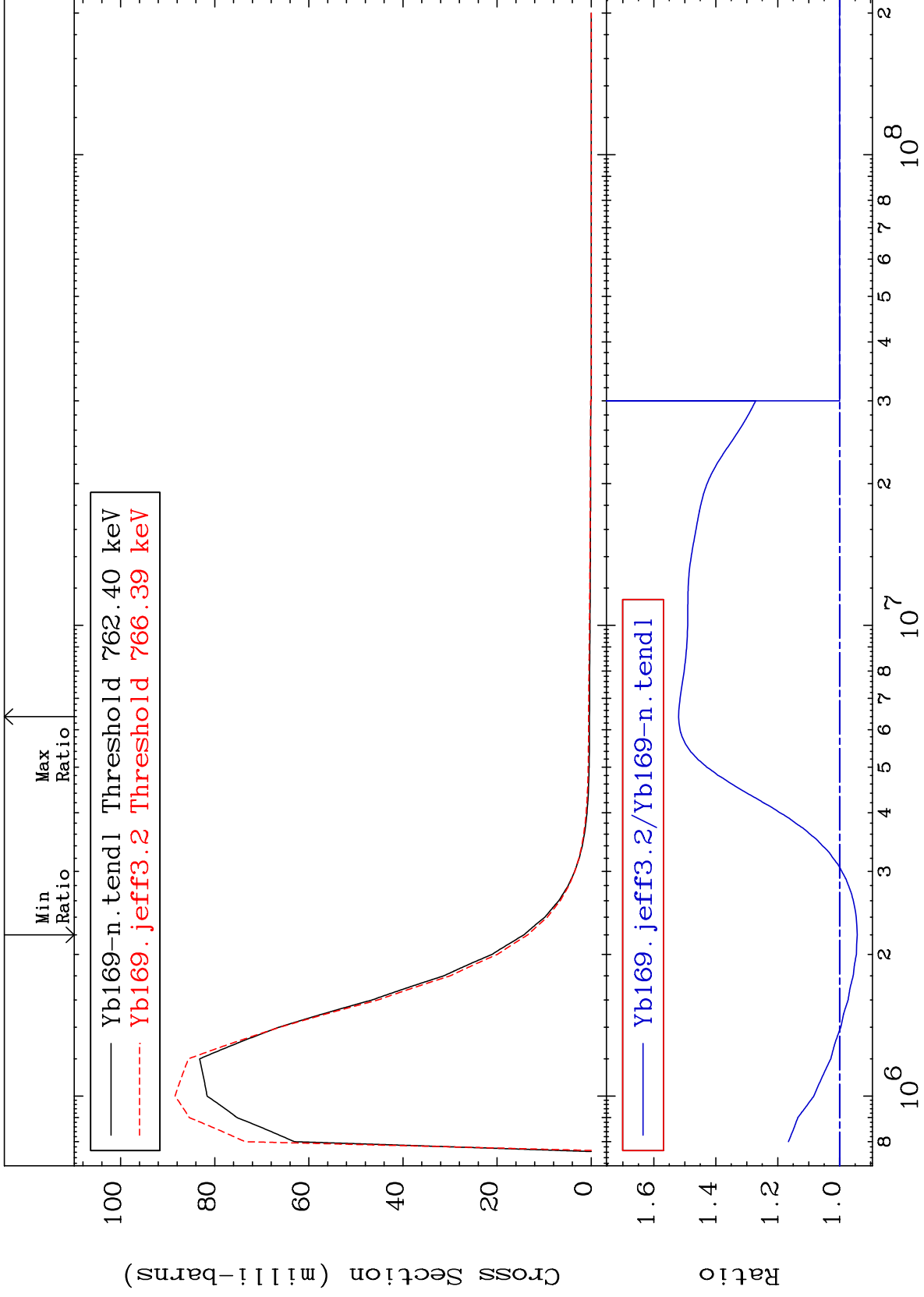
70-Yb-169
To 9999. %



MAT 7028

757.9 keV (n,n') Level
Cross Section

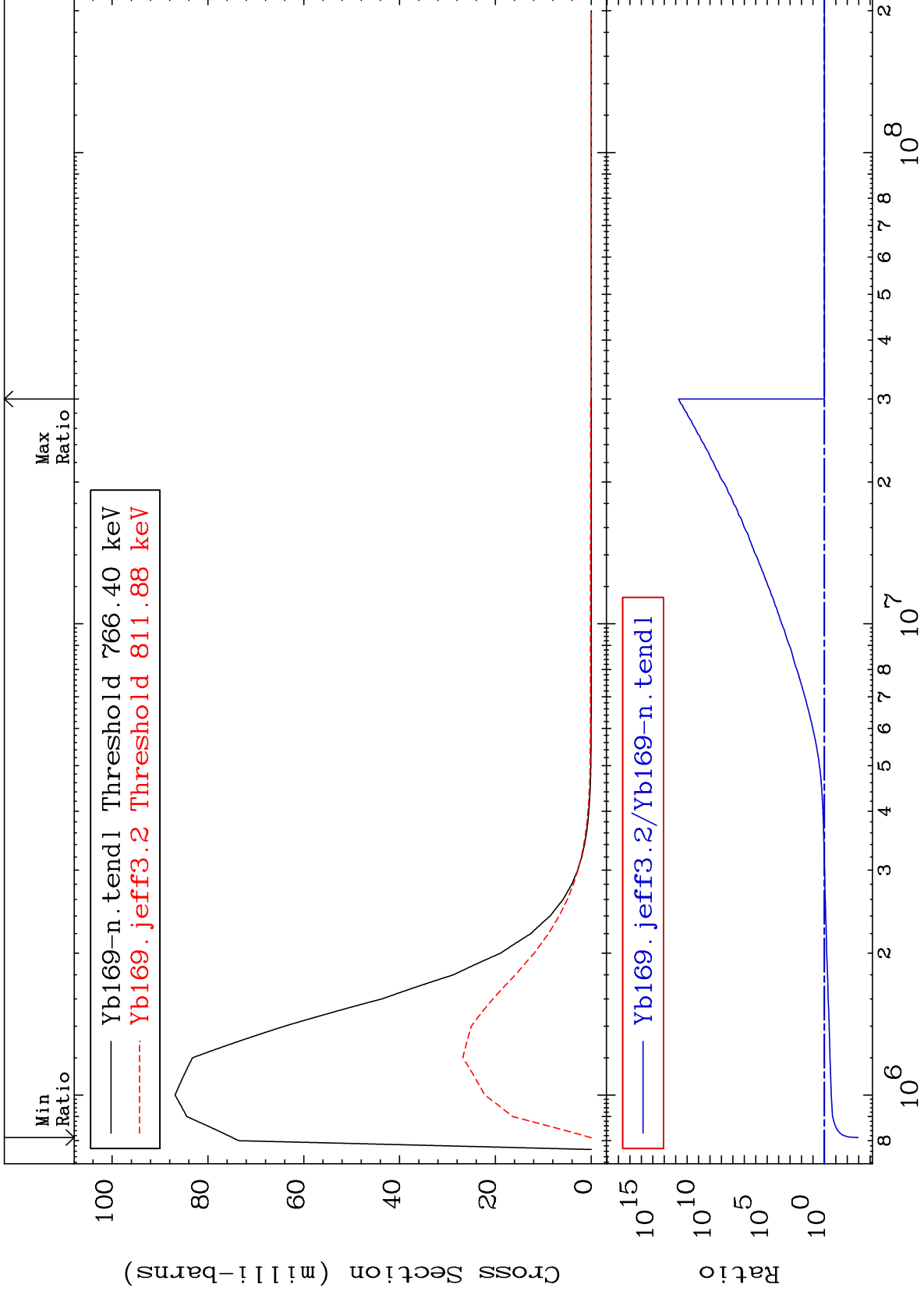
70-Yb-169
-5.676 To 51.99 %



MAT 7028

761.8 keV (n,n') Level
Cross Section

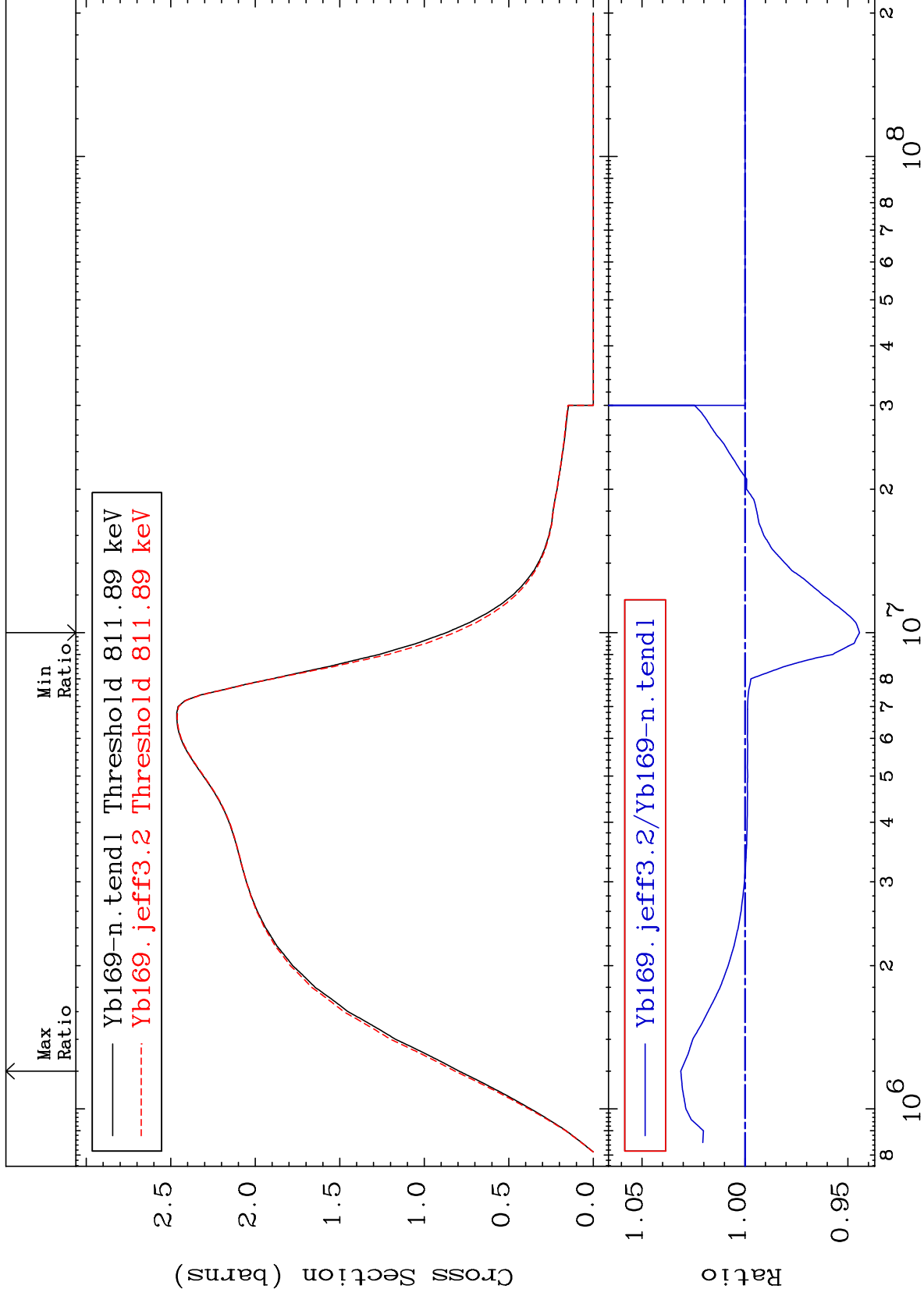
70-Yb-169
-99.86 To 9999. %



MAT 7028

(n, n') Continuum
Cross Section

⁷⁰Yb-169
-5.569 To 3.119 %



50

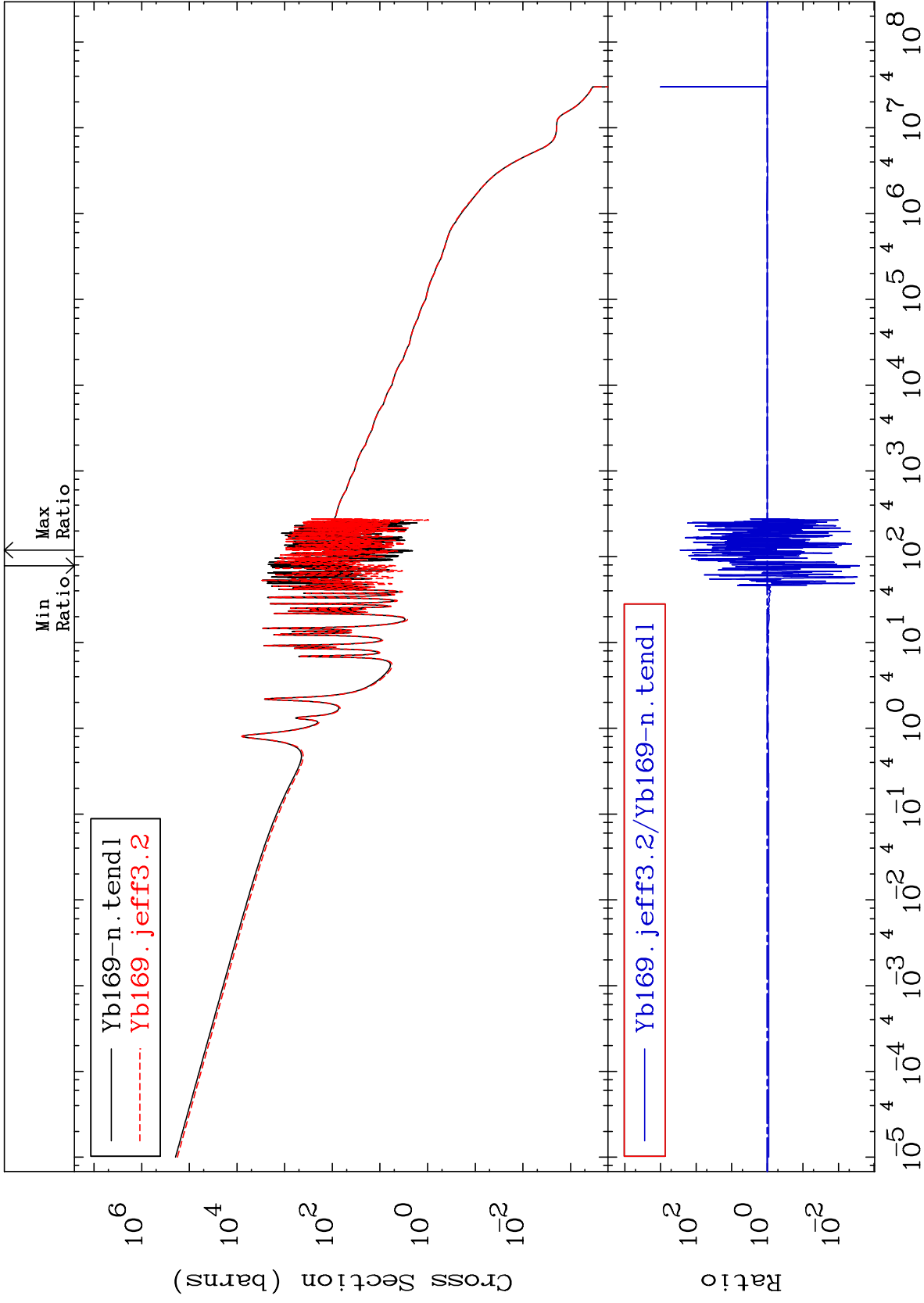
Incident Energy (eV)

⁷⁰Yb-169

MAT 7028

(n, γ)
Cross Section

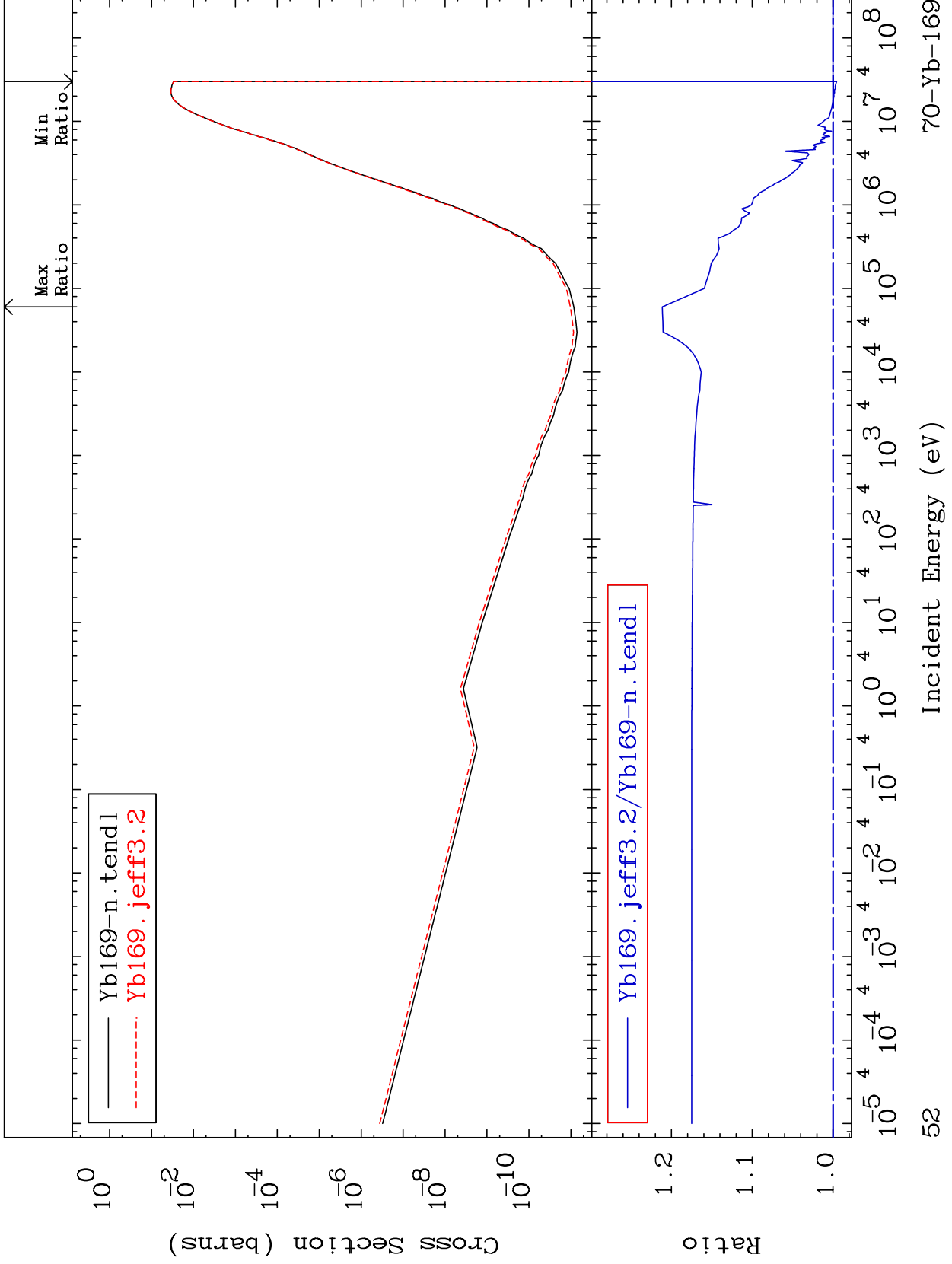
70-Yb-169
-99.74 To 9999. %



MAT 7028

(n, p)
Cross Section

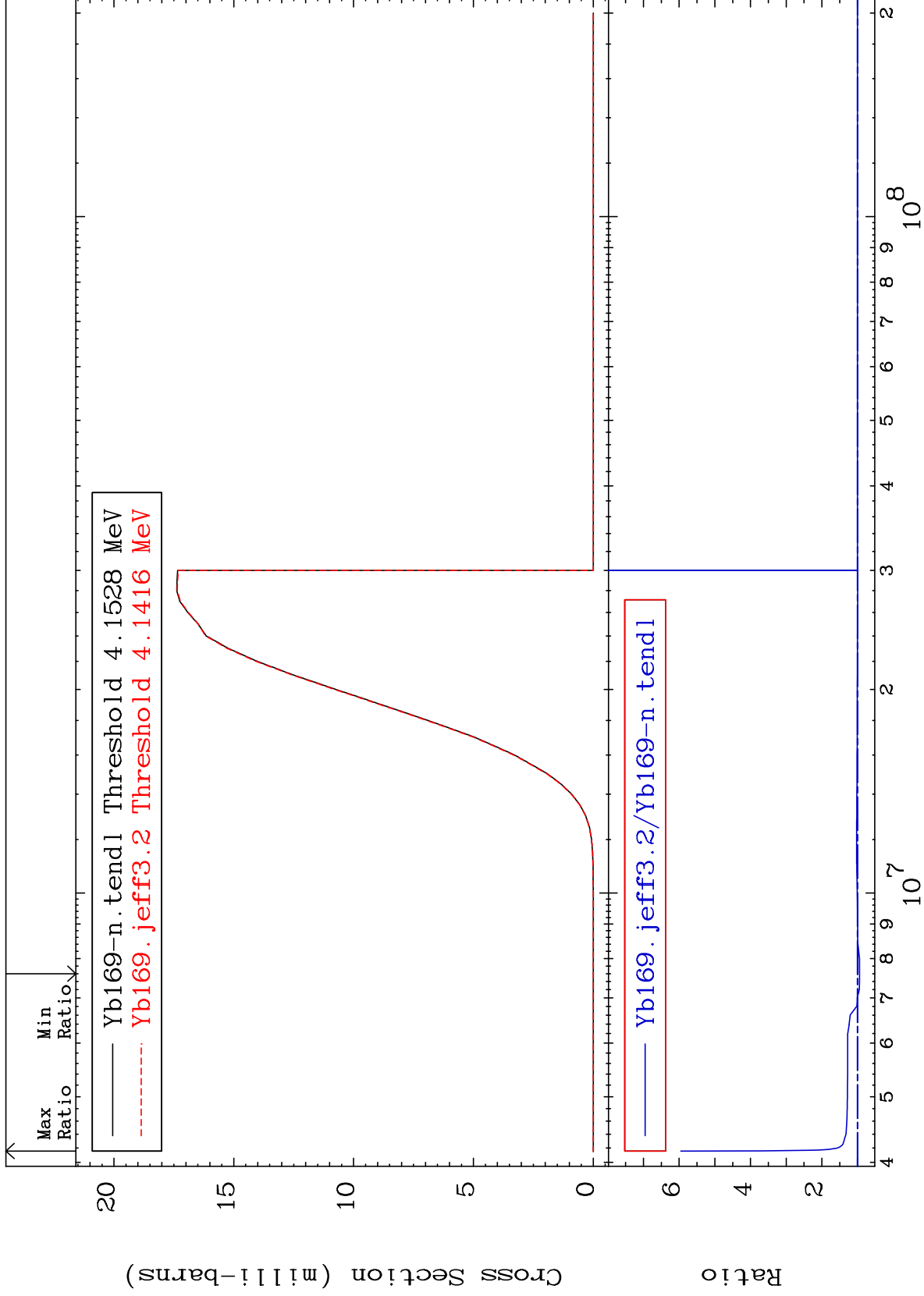
70-Yb-169
-0.443 To 21.14 %



MAT 7028

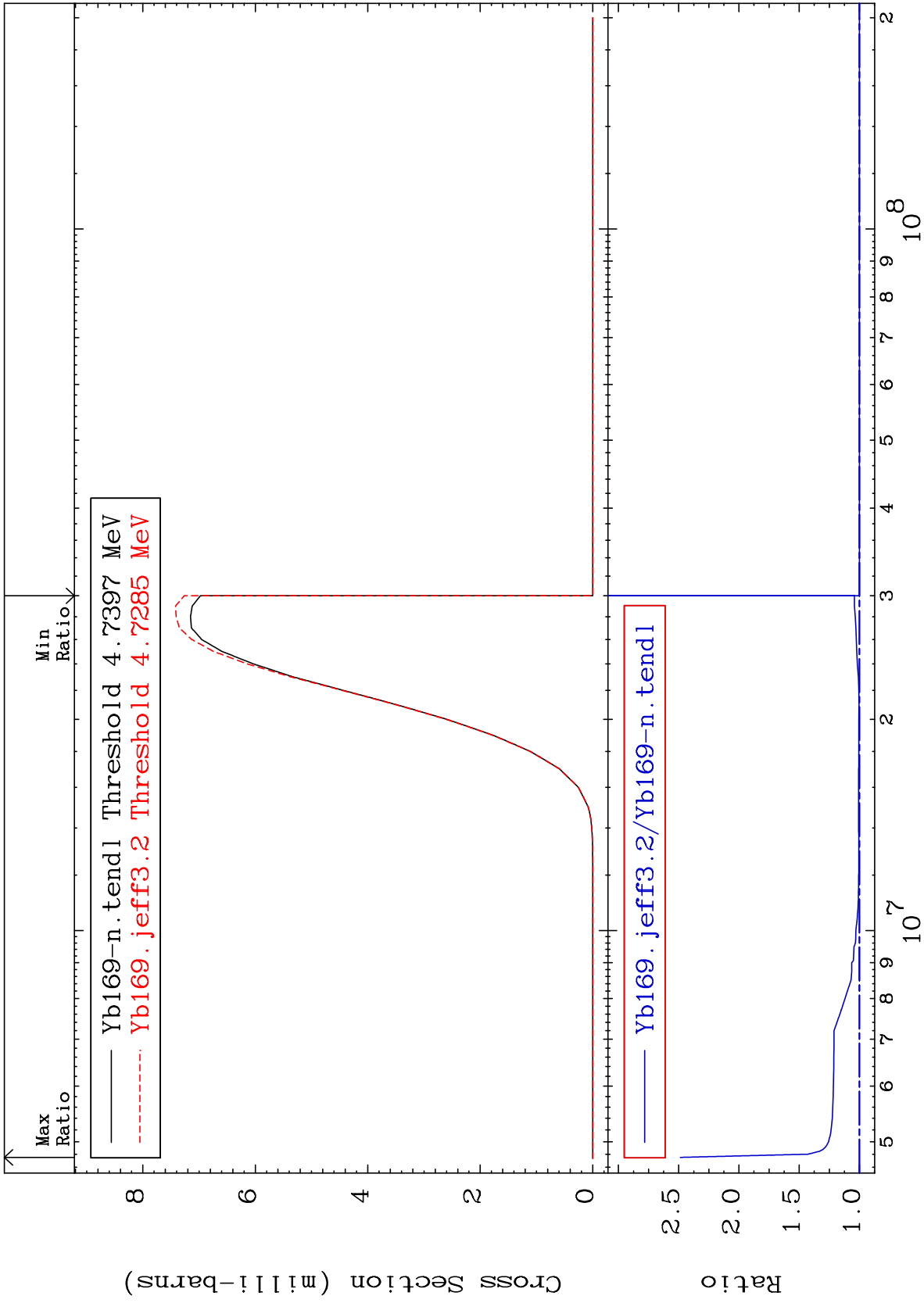
(n, d)
Cross Section

⁷⁰Yb-169
-5.643 To 495.5 %



MAT 7028

(n, t)
Cross Section
70-Yb-169
To 148.6 %
0.000

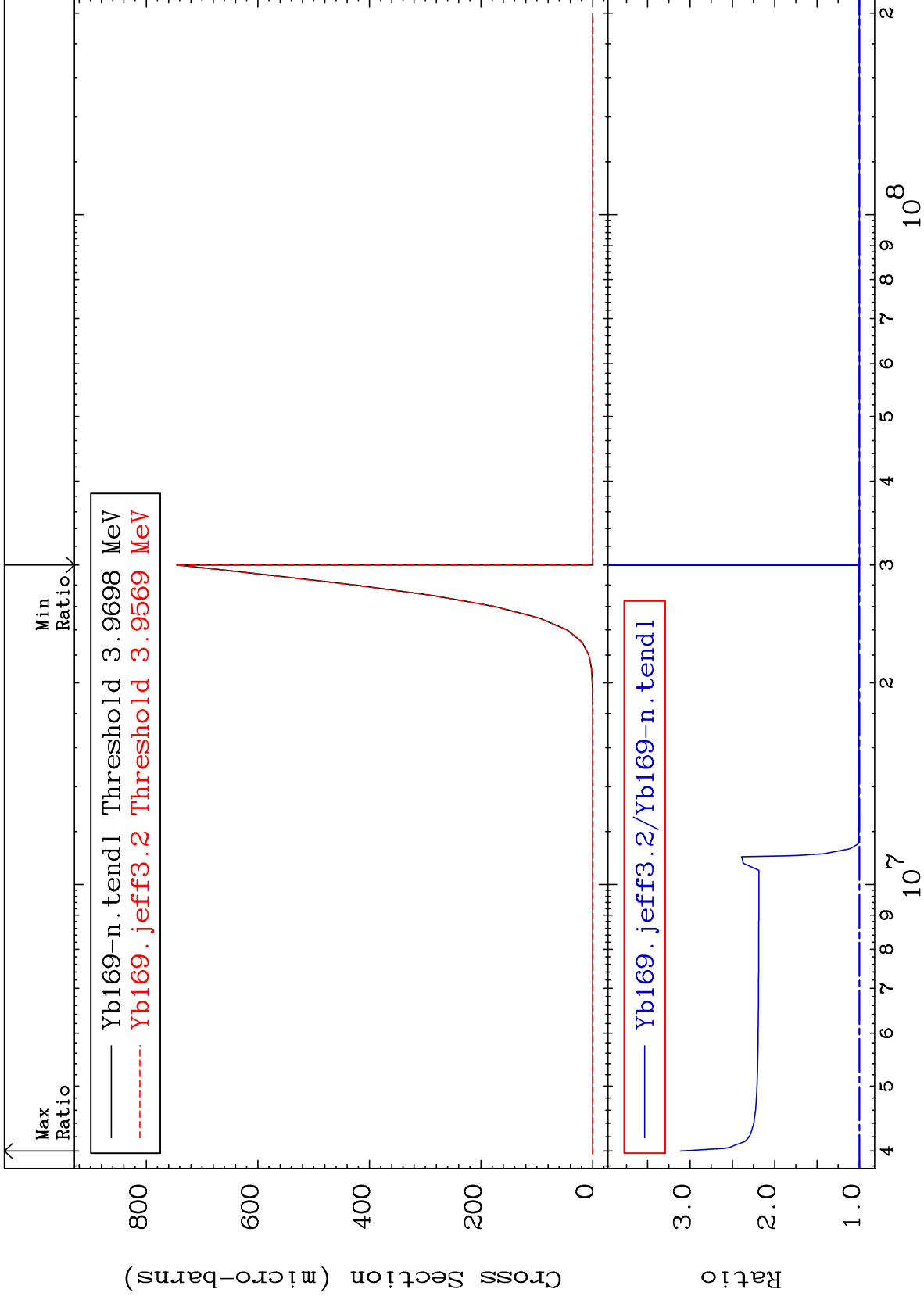


MAT 7028

(n, He-3)

70-Yb-169
To 211.4 %
0.000

Cross Section



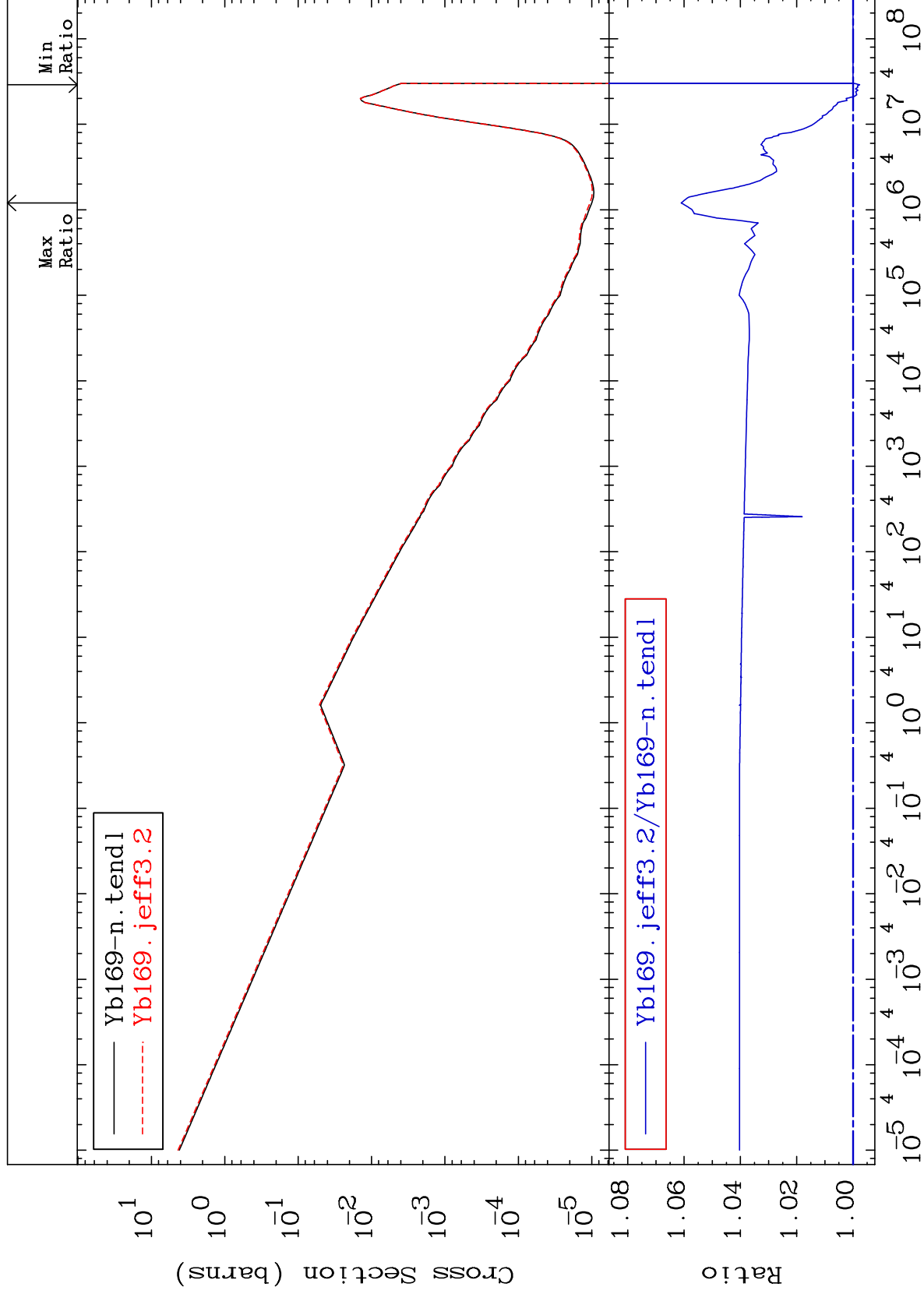
MAT 7028

(n, α)

Cross Section

70-Yb-169

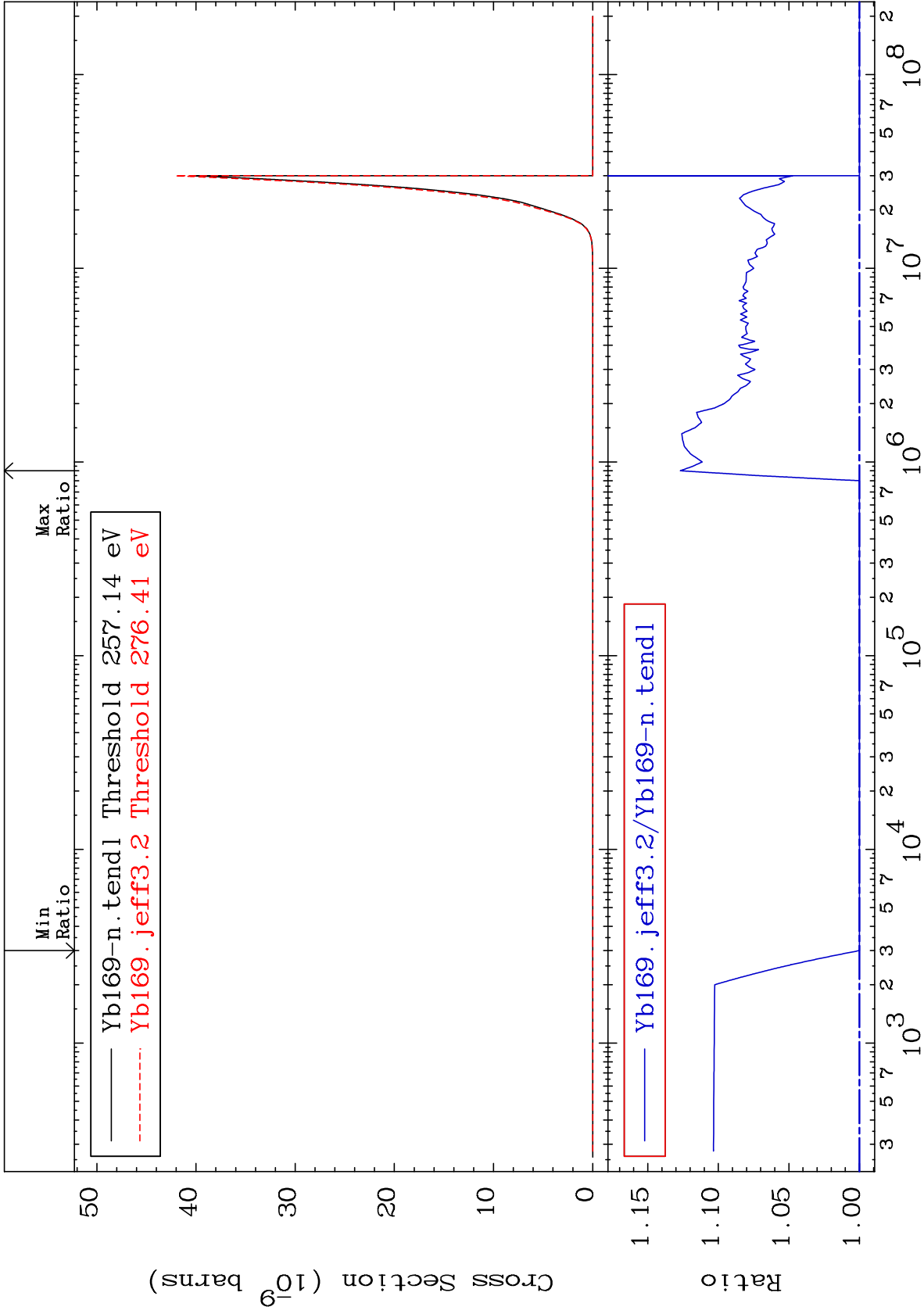
-0.235 To 6.105 %

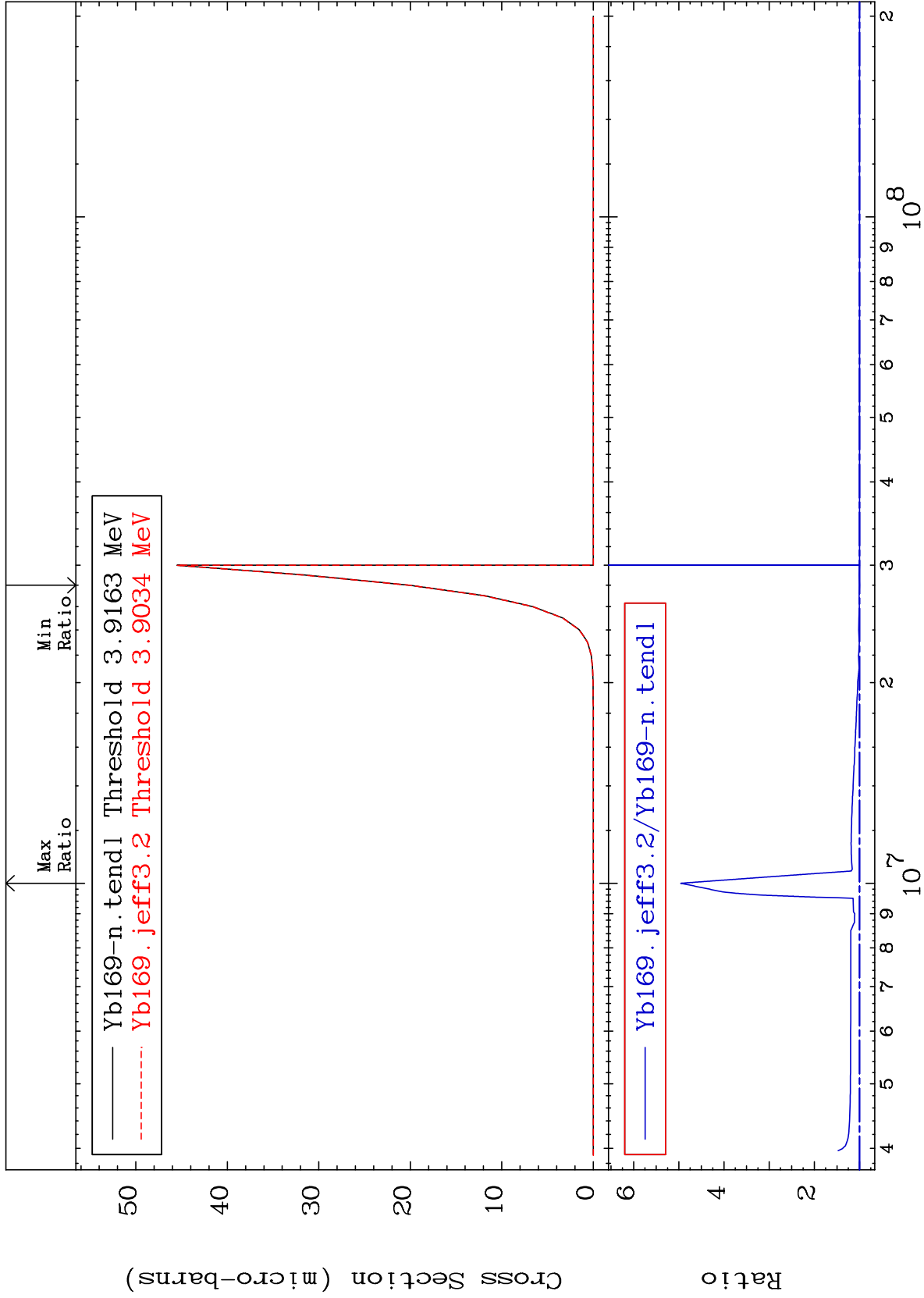


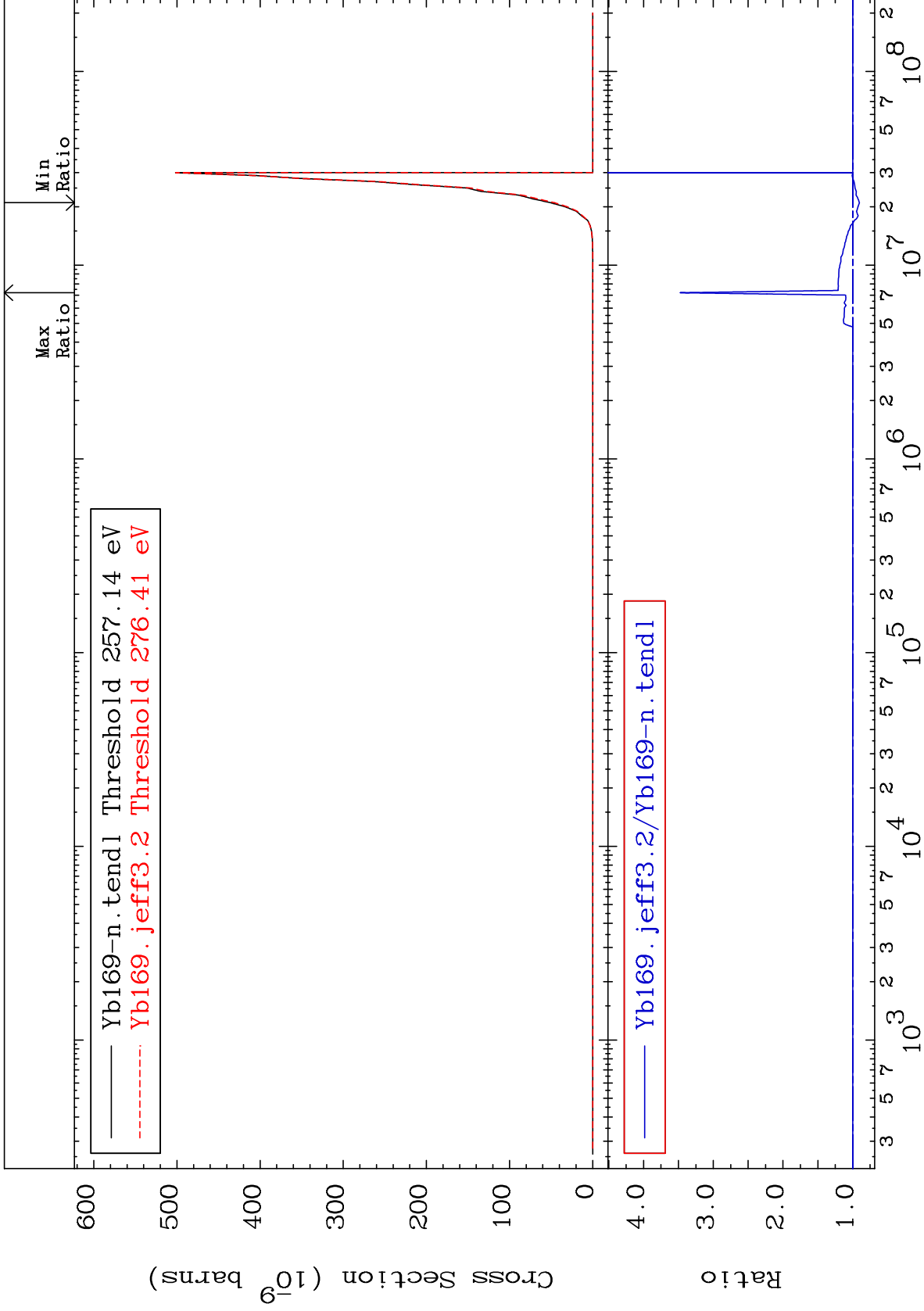
MAT 7028

(n,2α)
Cross Section

70-Yb-169
To 12.69 %



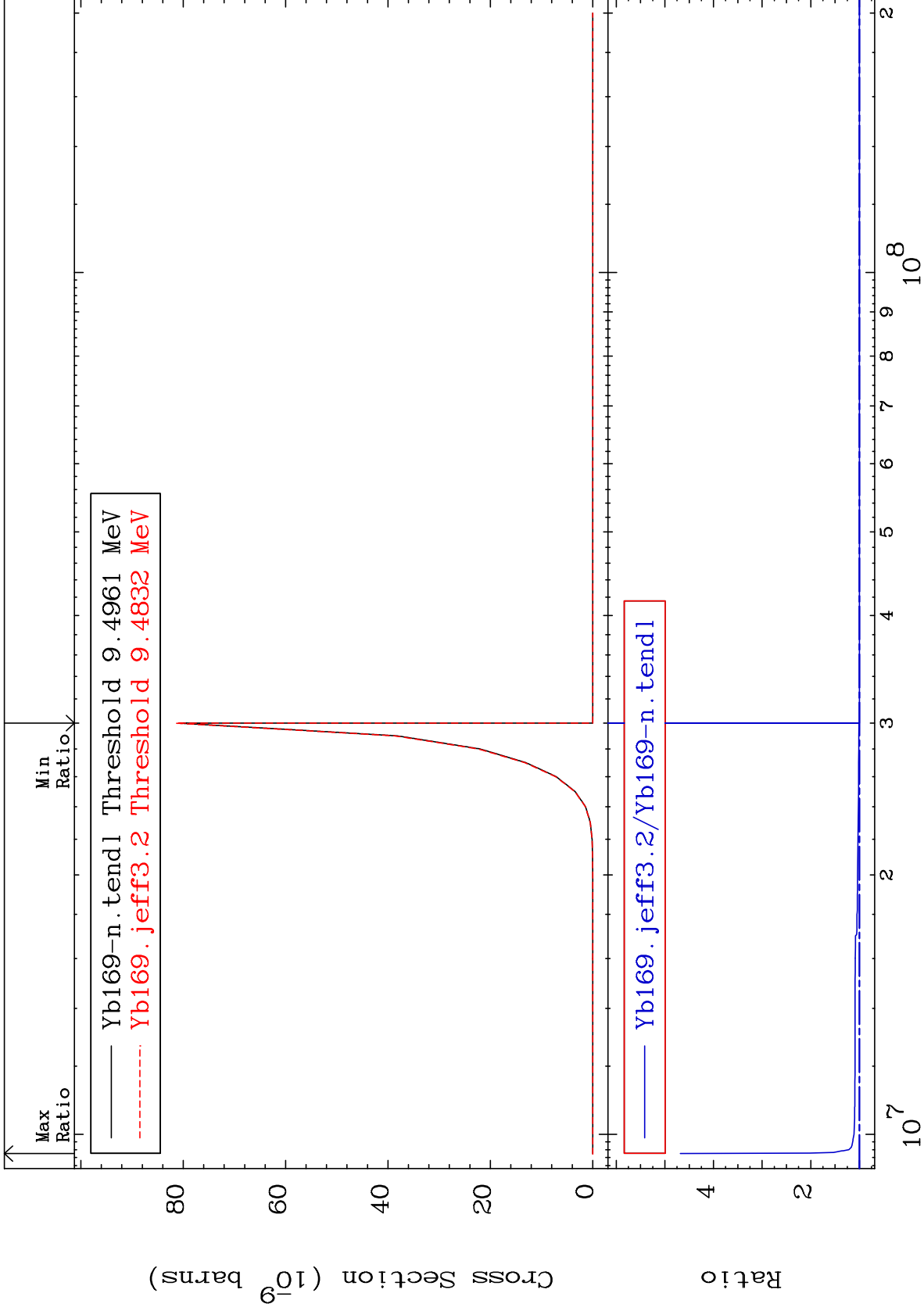




MAT 7028

(n,p) d
Cross Section

70-Yb-169
To 368.1 %
0.000



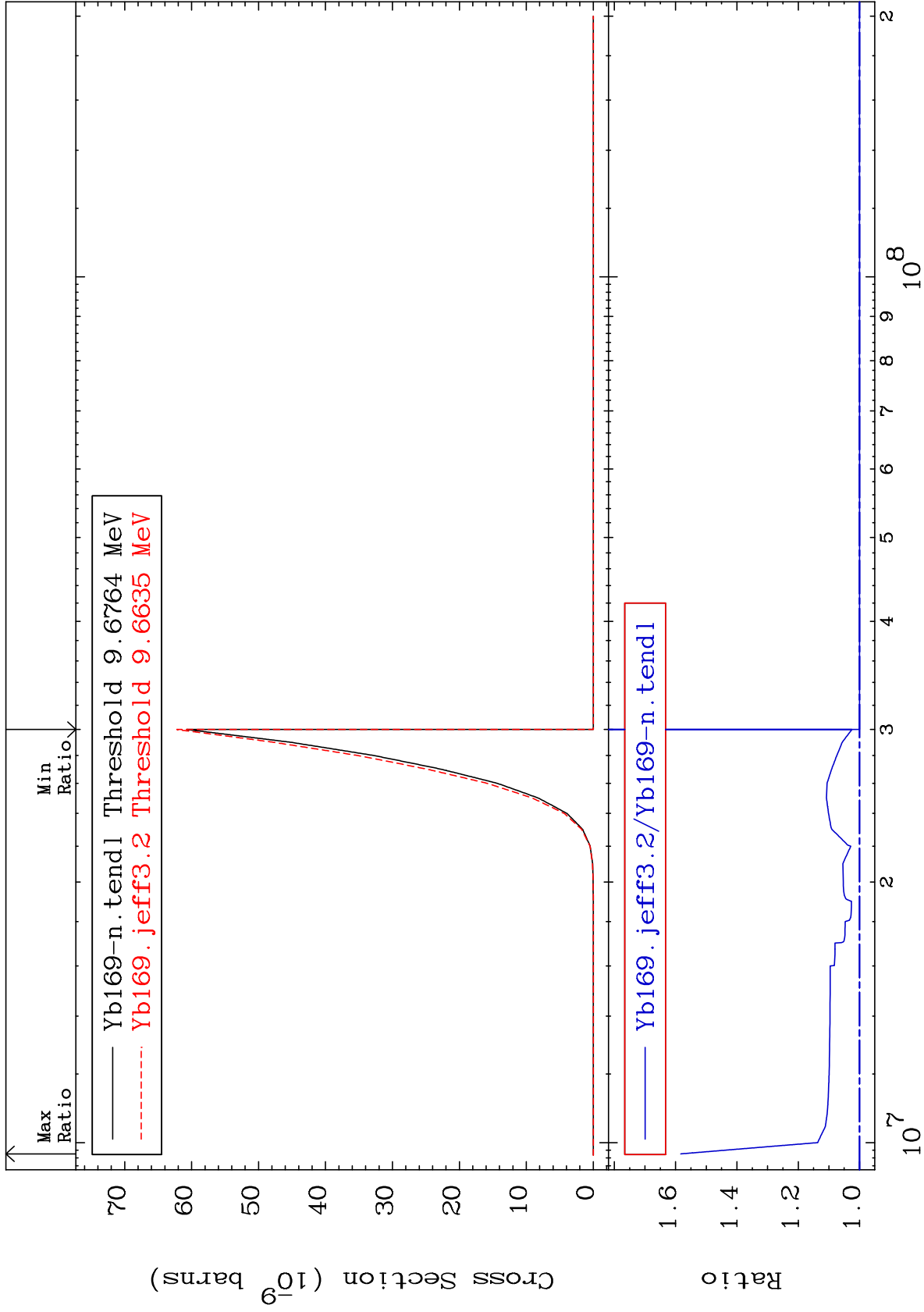
Incident Energy (eV)

70-Yb-169

MAT 7028

(n,p) t
Cross Section

⁷⁰Yb-169
To 58.32 %



61

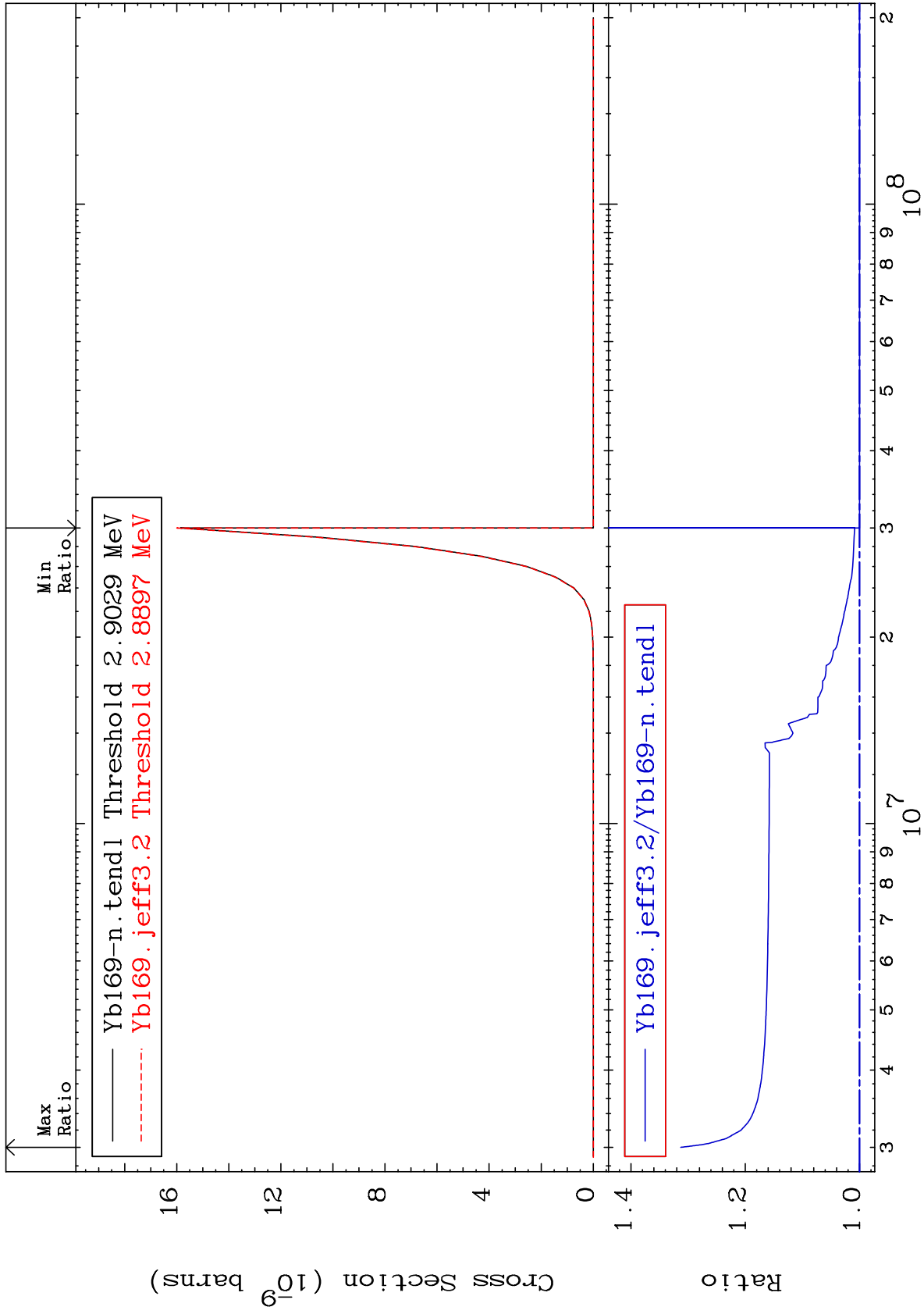
Incident Energy (eV)

⁷⁰Yb-169

MAT 7028

(n, d) α
Cross Section

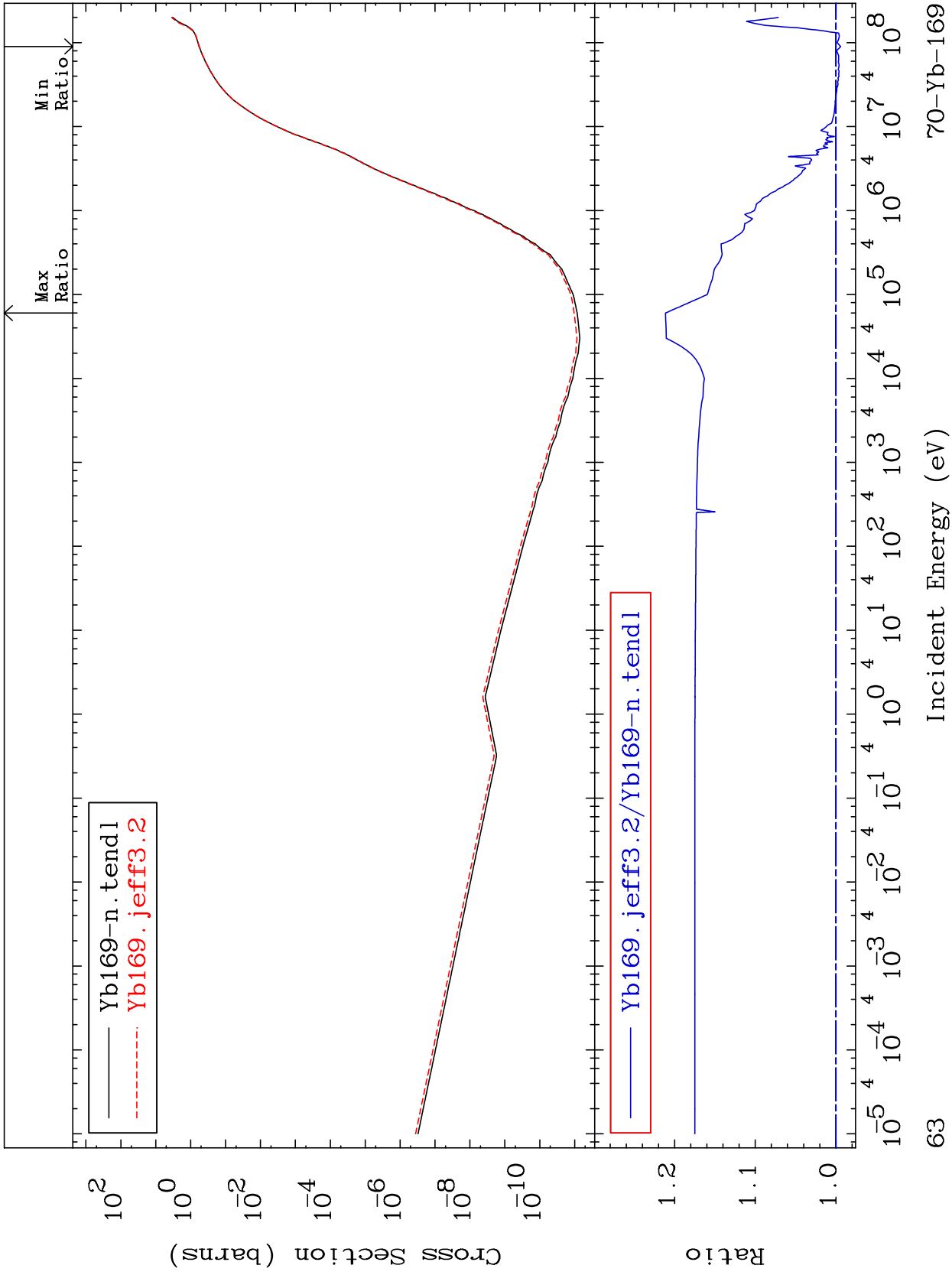
70-Yb-169
To 31.29 %
0.000



MAT 7028

Hydrogen Production
Cross Section

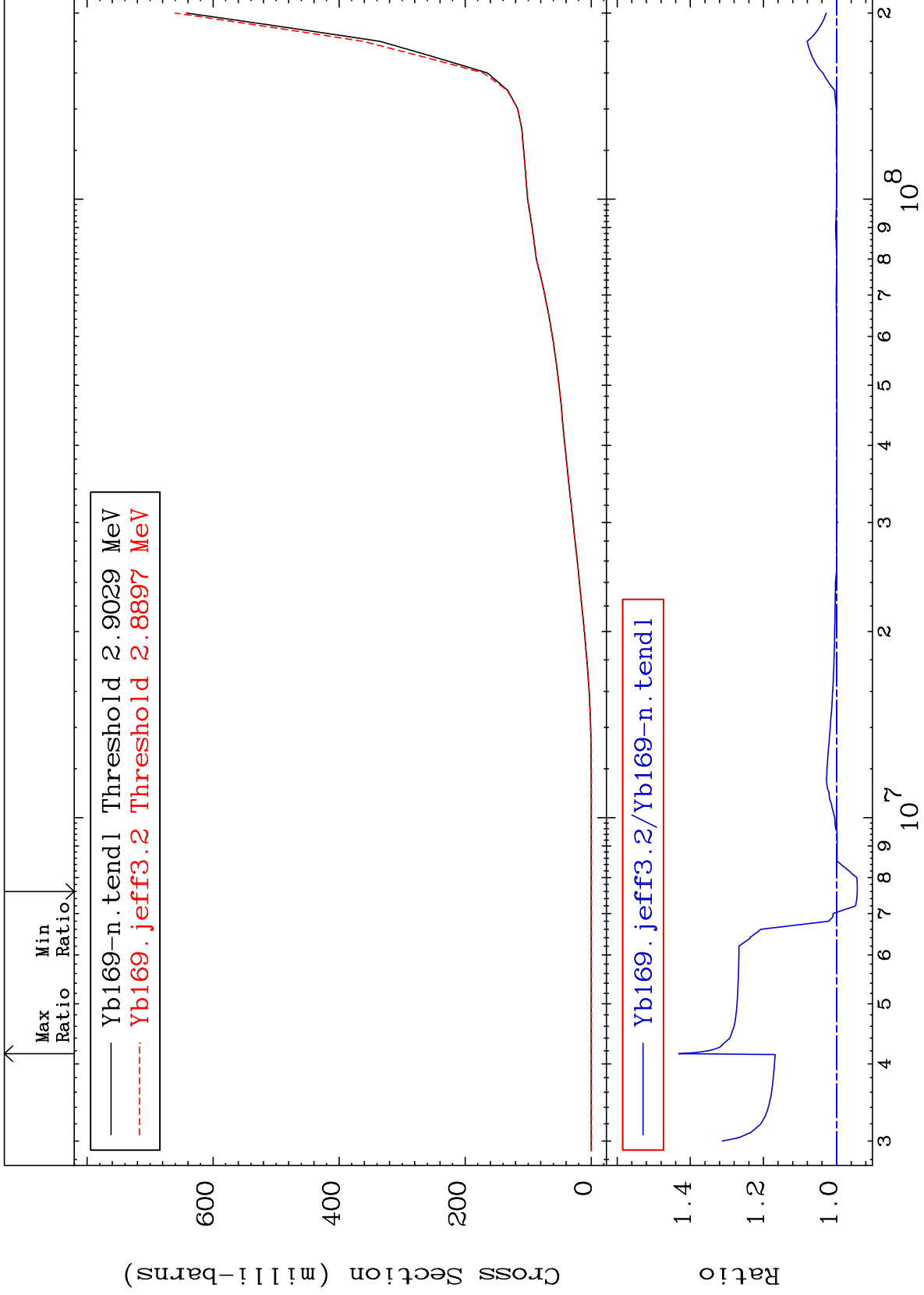
70-Yb-169
-0.591 To 21.14 %



MAT 7028

Deuterium Production
Cross Section

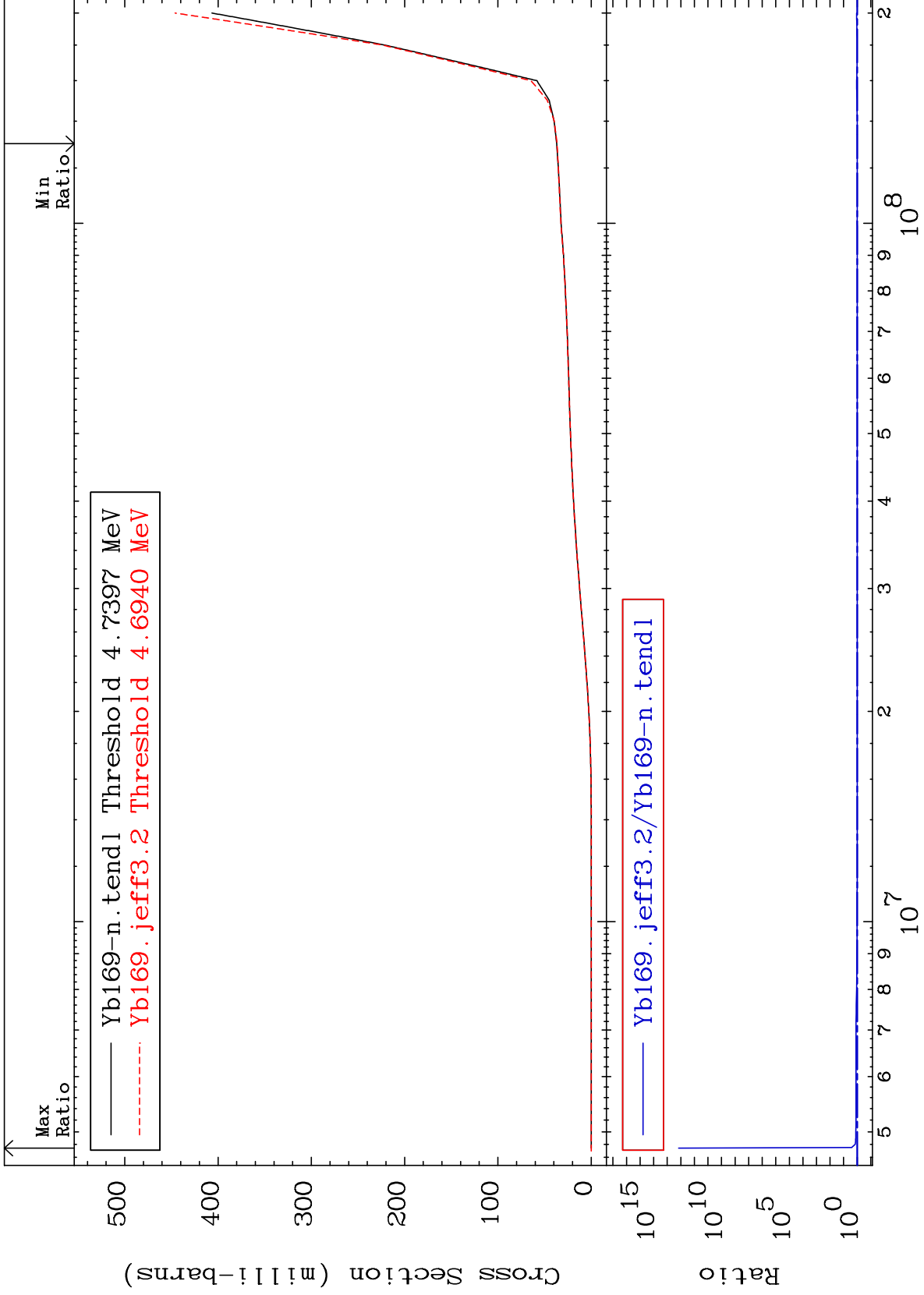
70-Yb-169
-5.643 To 43.19 %



MAT 7028

Tritium Production
Cross Section

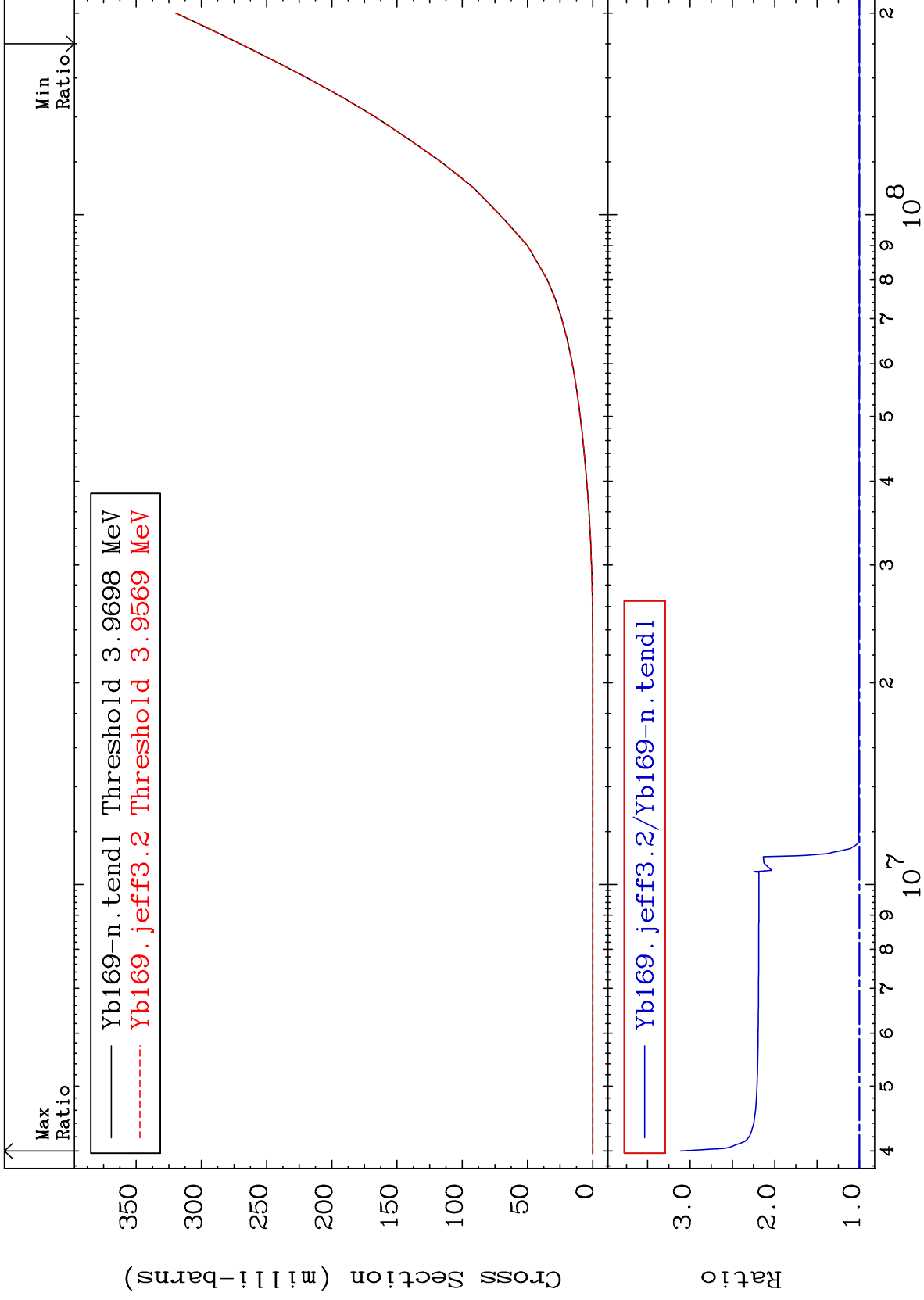
⁷⁰Yb-169
-0.955 To 9999. %



MAT 7028

He-3 Production
Cross Section

70-Yb-169
To 211.4 %
0.023



66

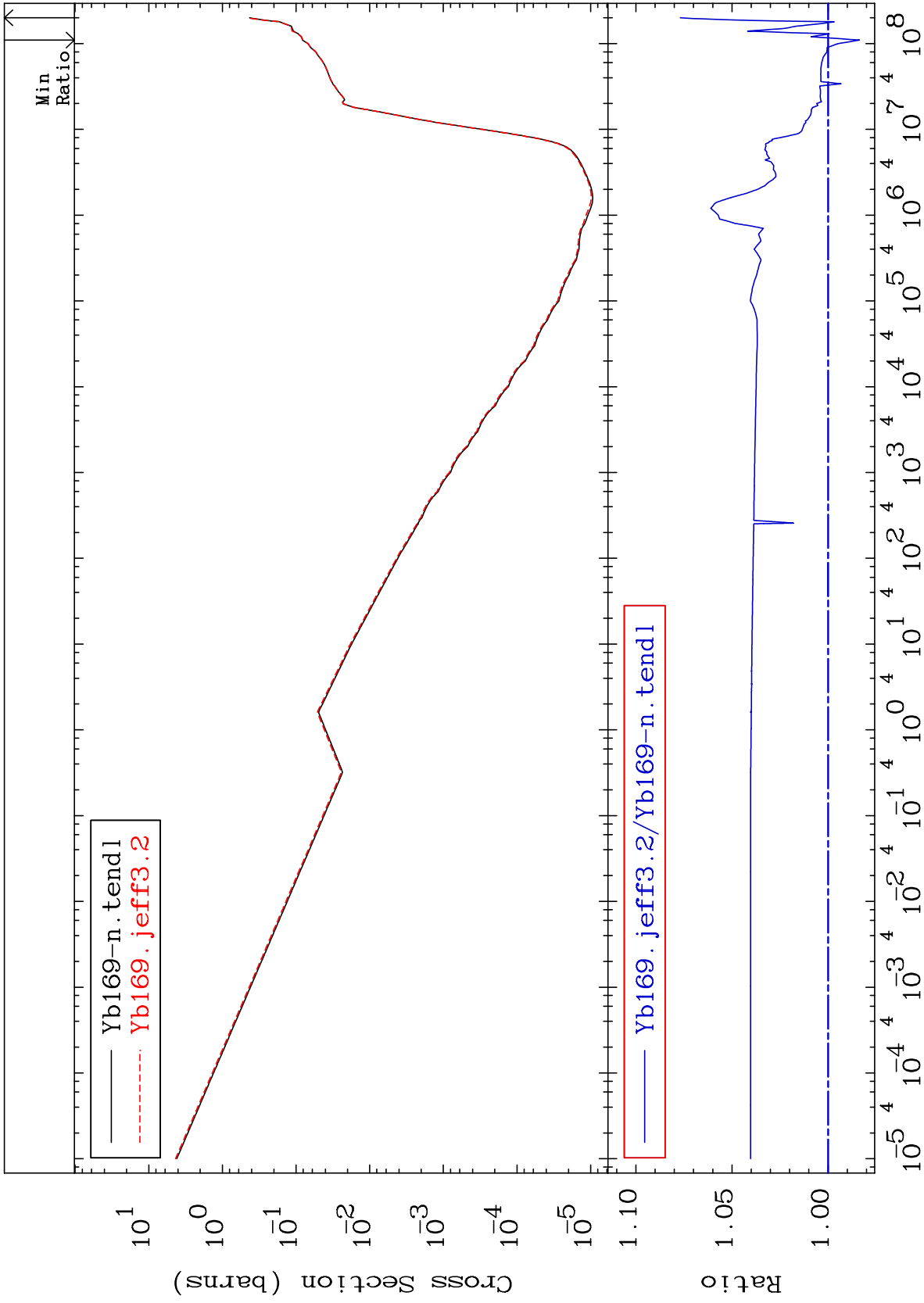
Incident Energy (eV)

70-Yb-169

MAT 7028

He-4 Production
Cross Section

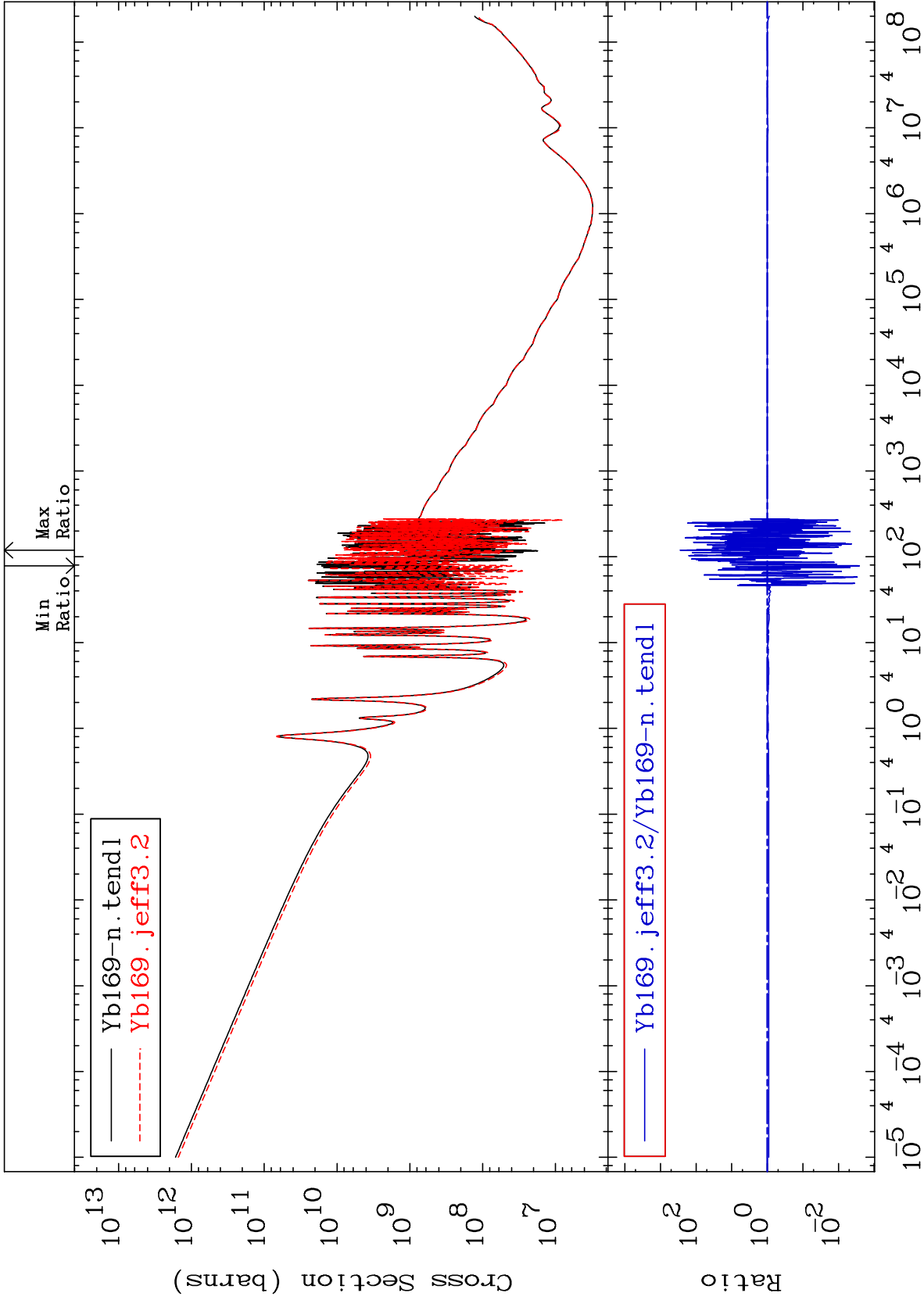
70-Yb-169
-1.631 To 7.686 %



67

Incident Energy (eV)

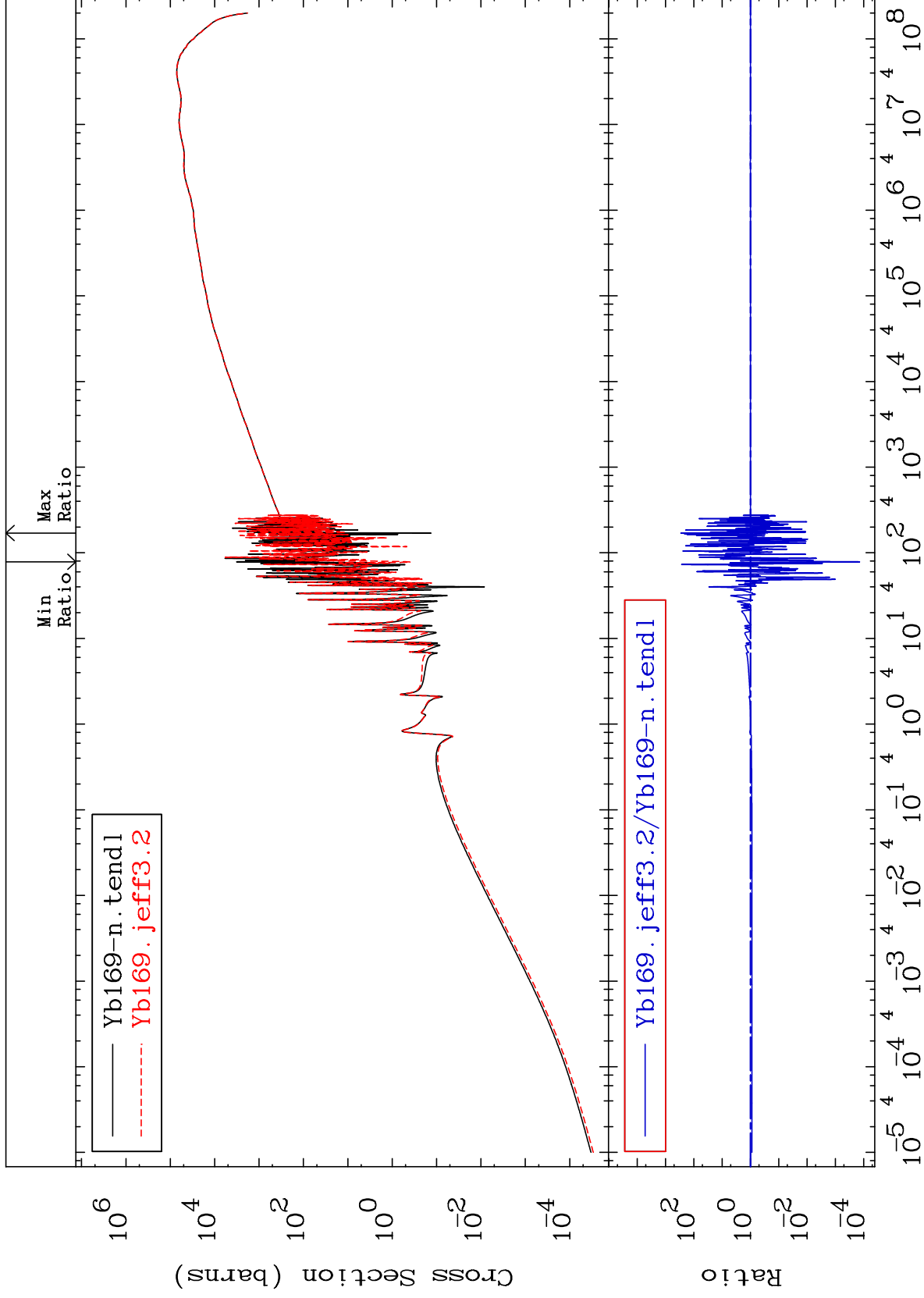
70-Yb-169



MAT 7028

Kerma elastic
Cross Section

70-Yb-169
-99.99 To 9999. %



69

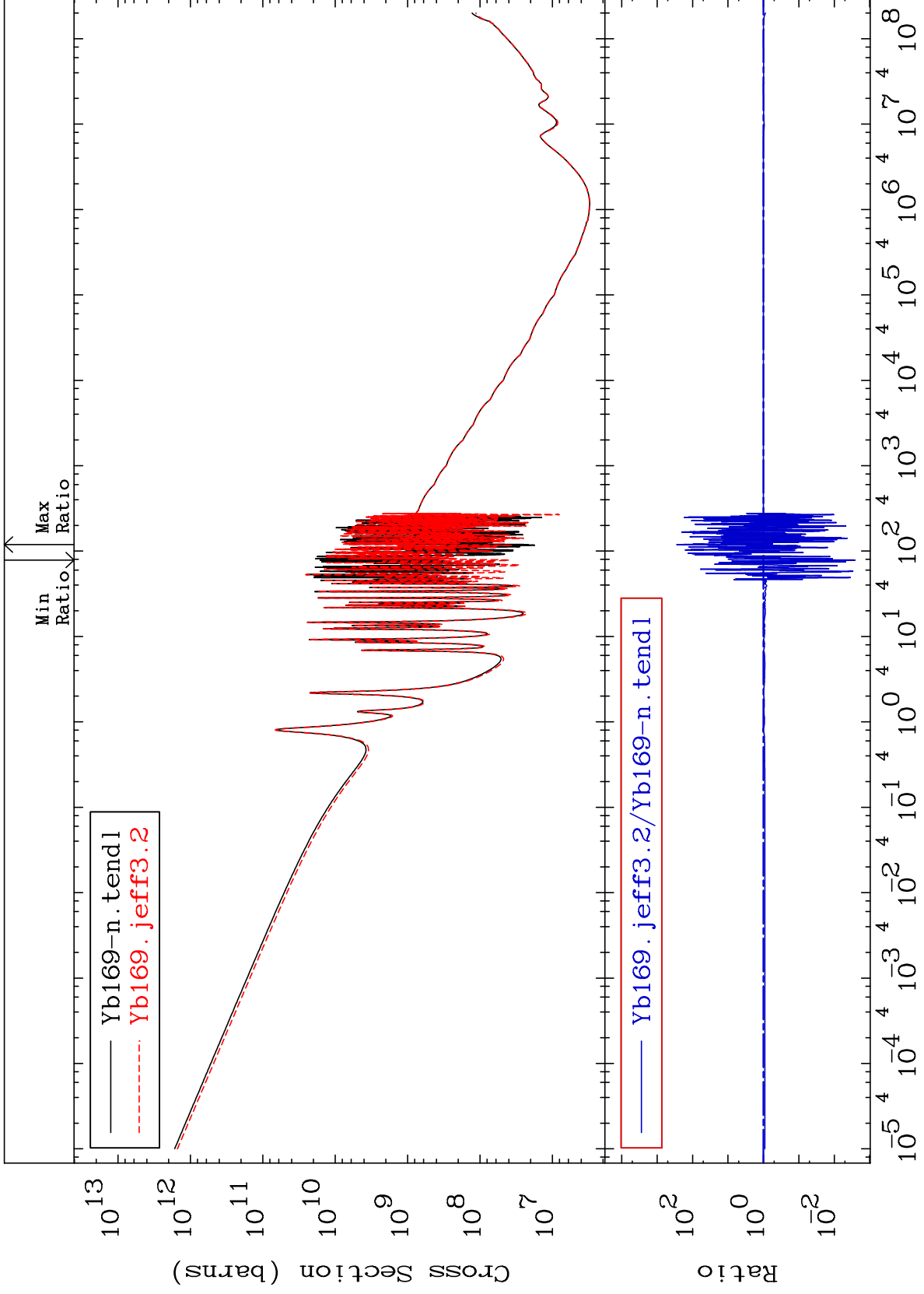
Incident Energy (eV)

70-Yb-169

MAT 7028

Kerma non-elastic (all but mt2)
Cross Section

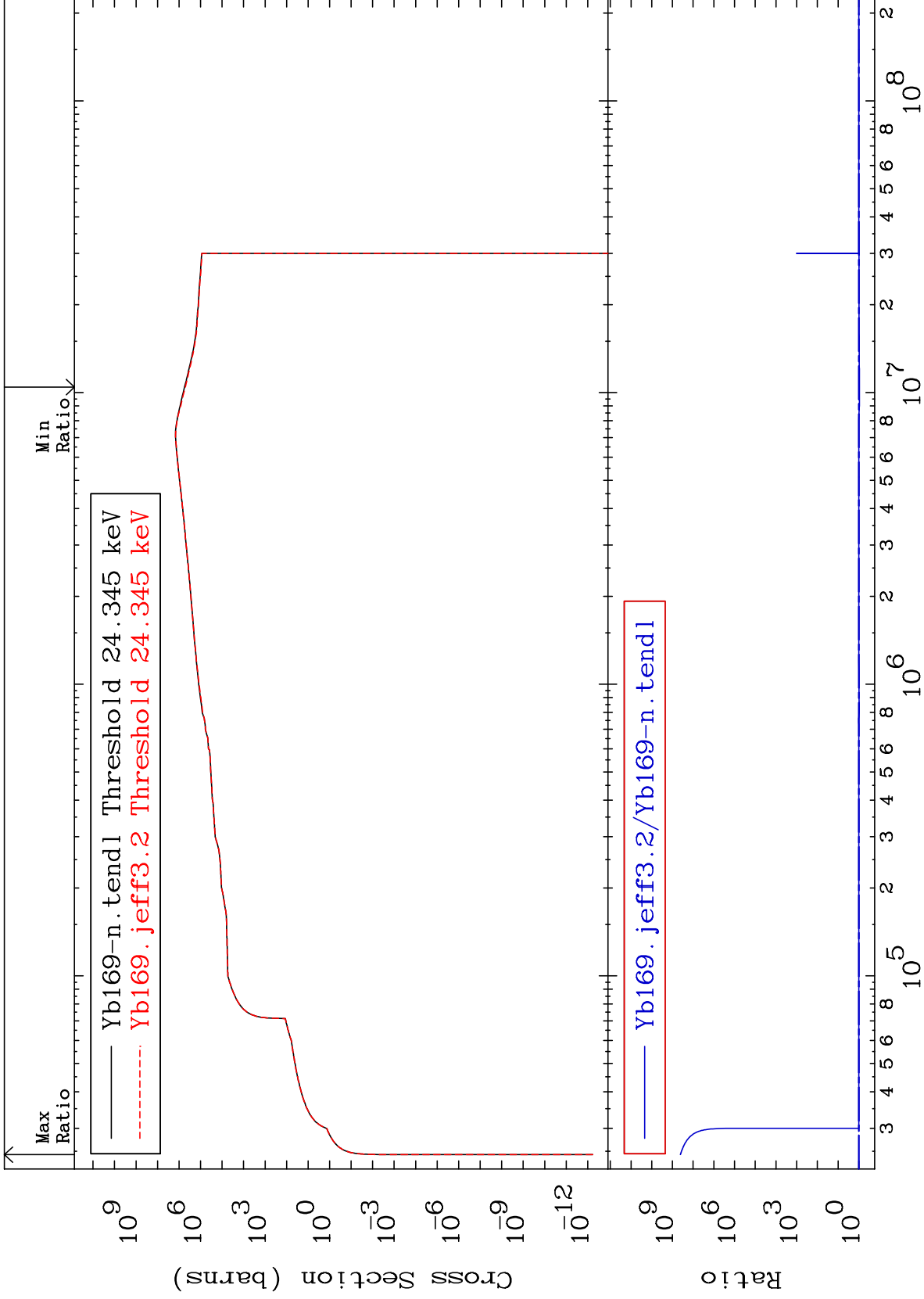
70-Yb-169
-99.74 To 9999. %

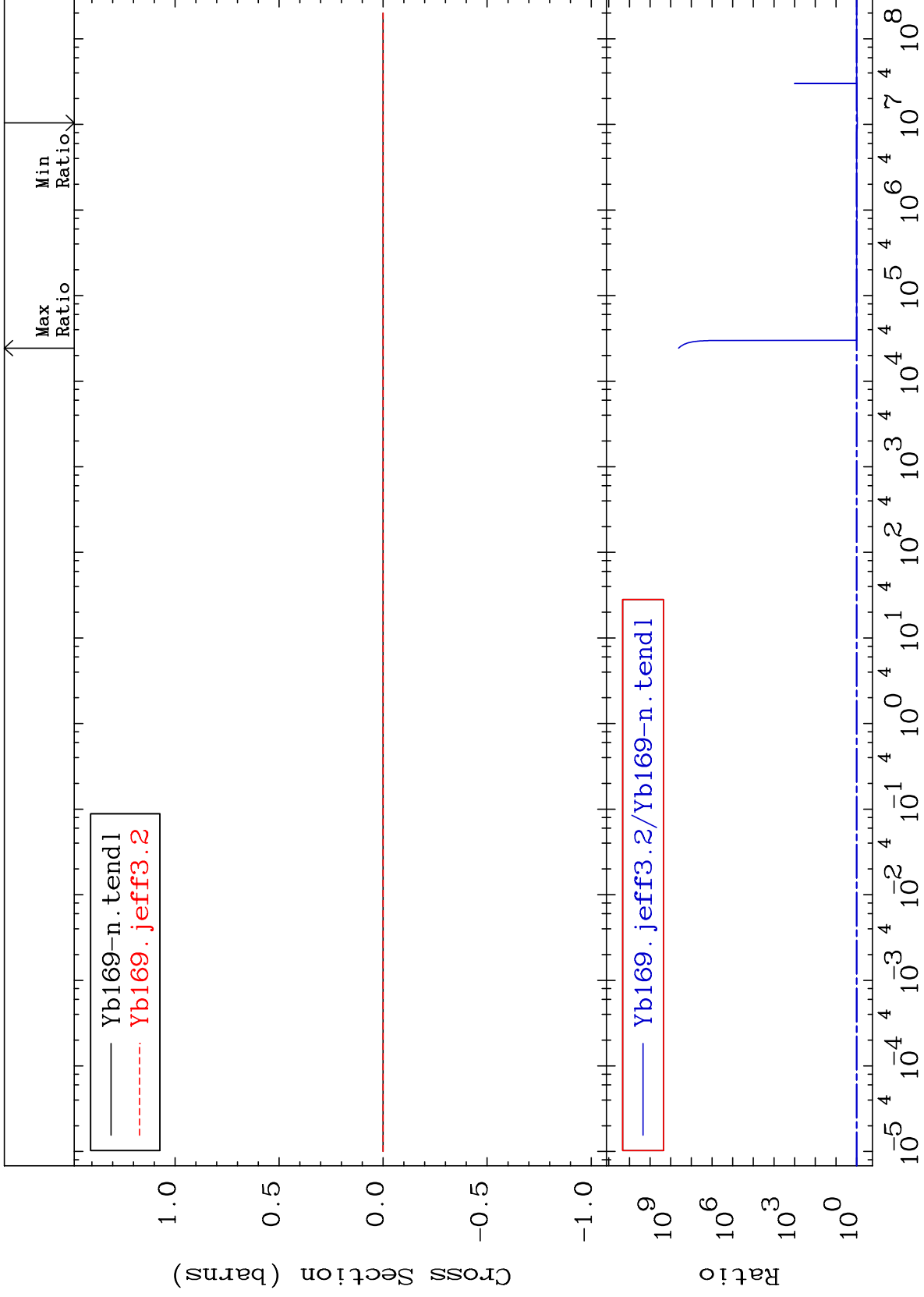


70

Incident Energy (eV)

70-Yb-169

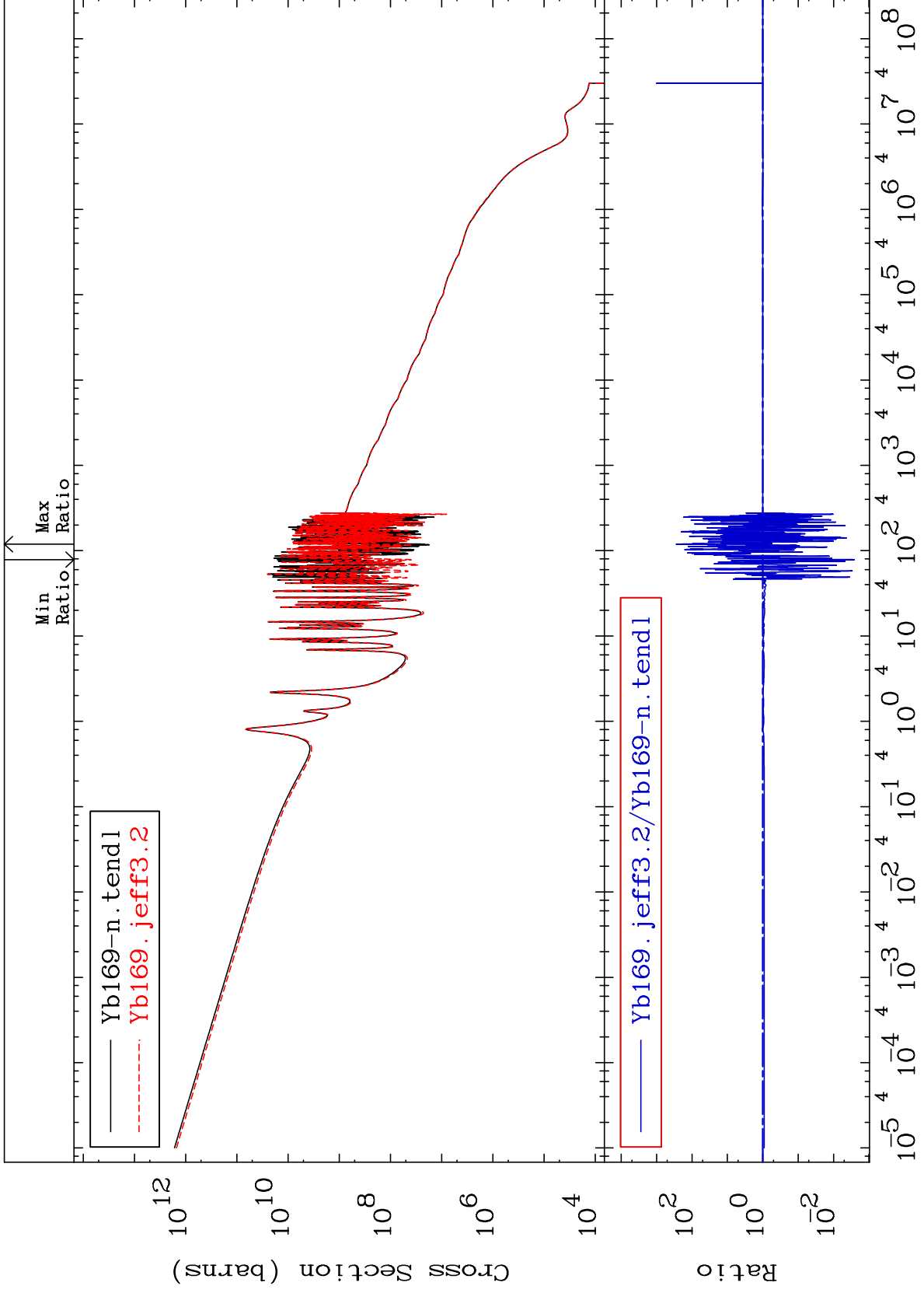




MAT 7028

Kerma capture (mt102)
Cross Section

70-Yb-169
-99.74 To 9999. %

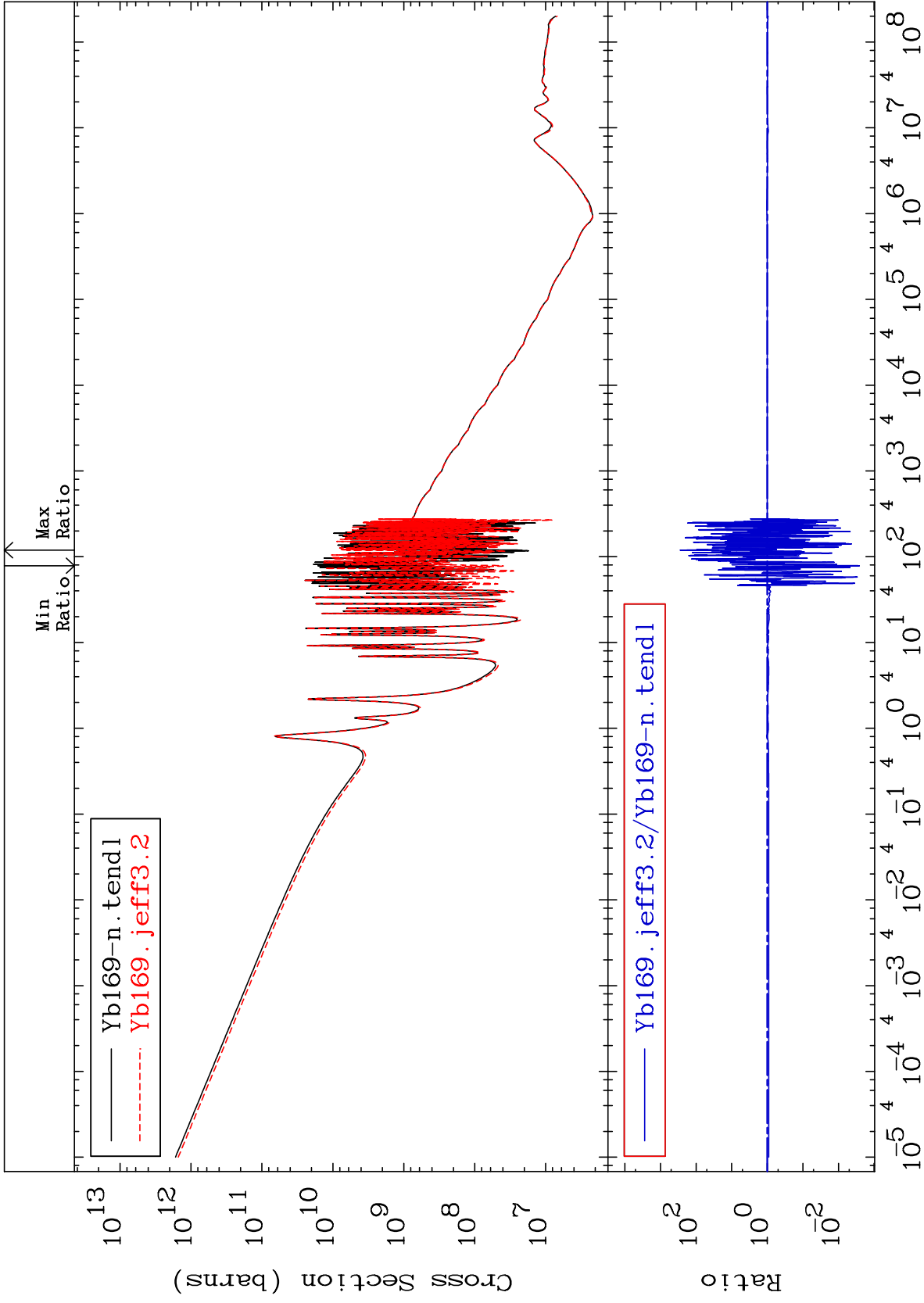


MAT 7028

Total photon (eV-barns)

70-Yb-169

-99.74 To 9999. %



74

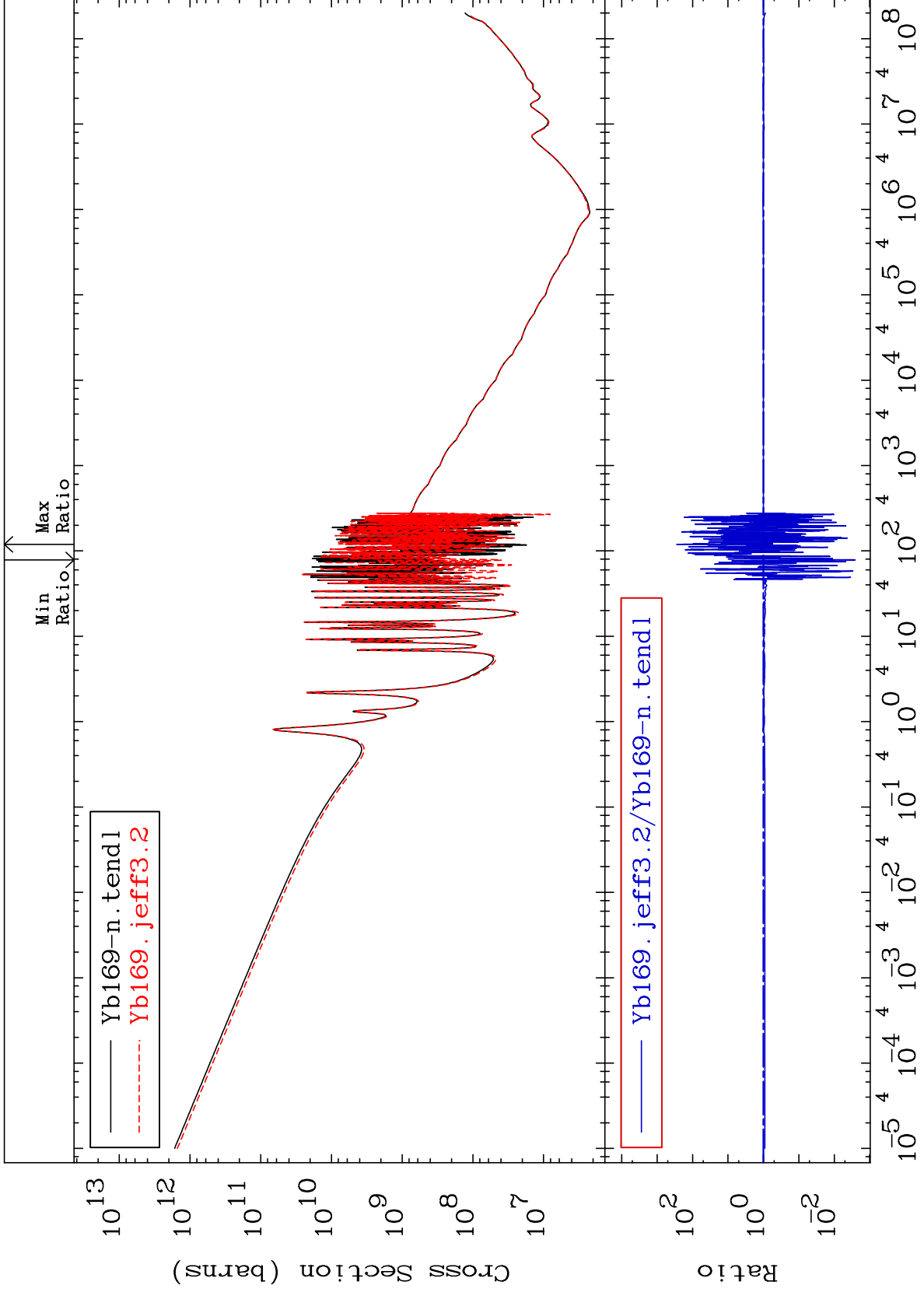
Incident Energy (eV)

70-Yb-169

MAT 7028

Total kinematic kerma (high limit)

70-Yb-169
-99.74 To 9999. %



75

70-Yb-169

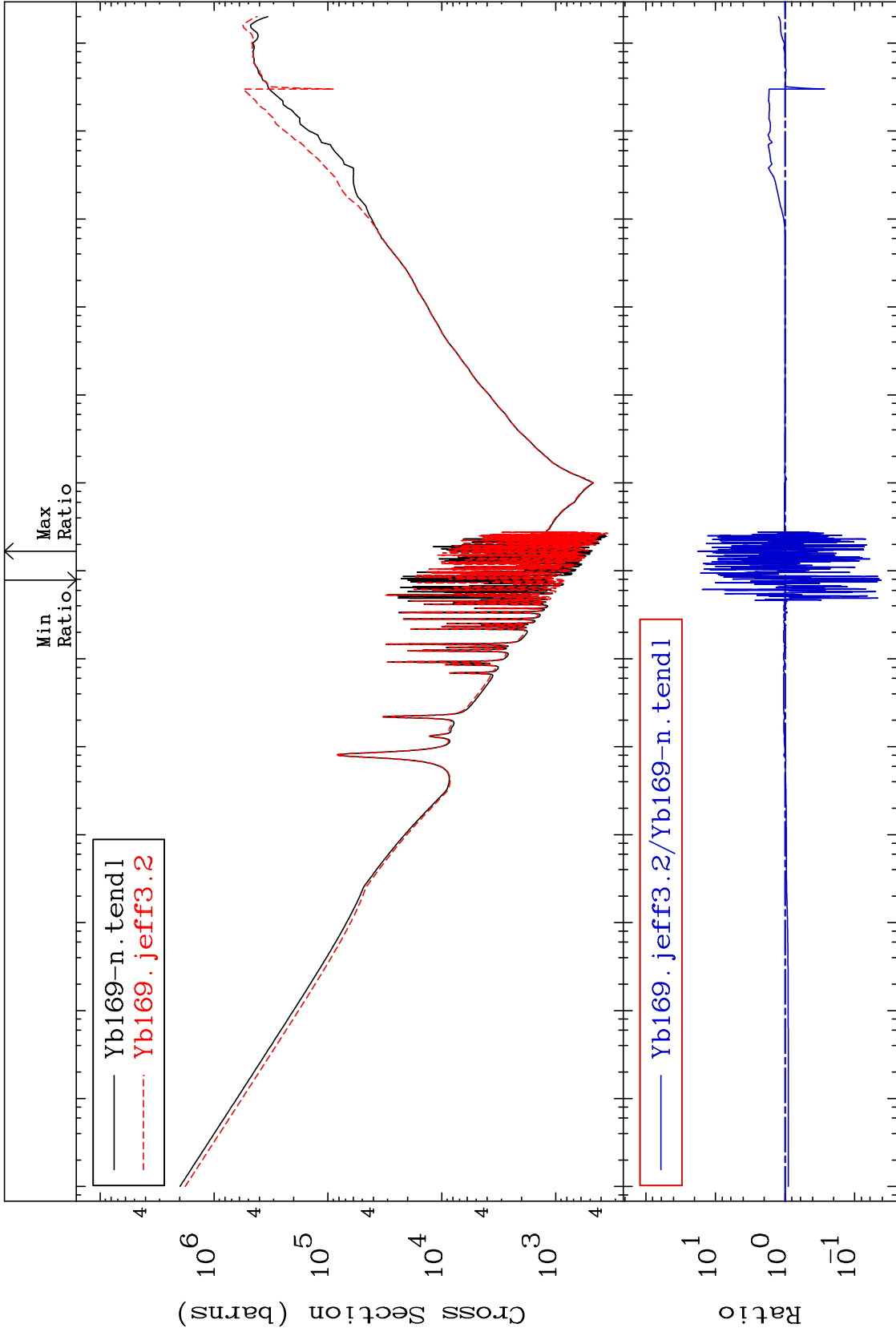
MAT 7028

Dpa total (eV-barns)

70-Yb-169

-95.84 To 1710. %

Cross Section



76

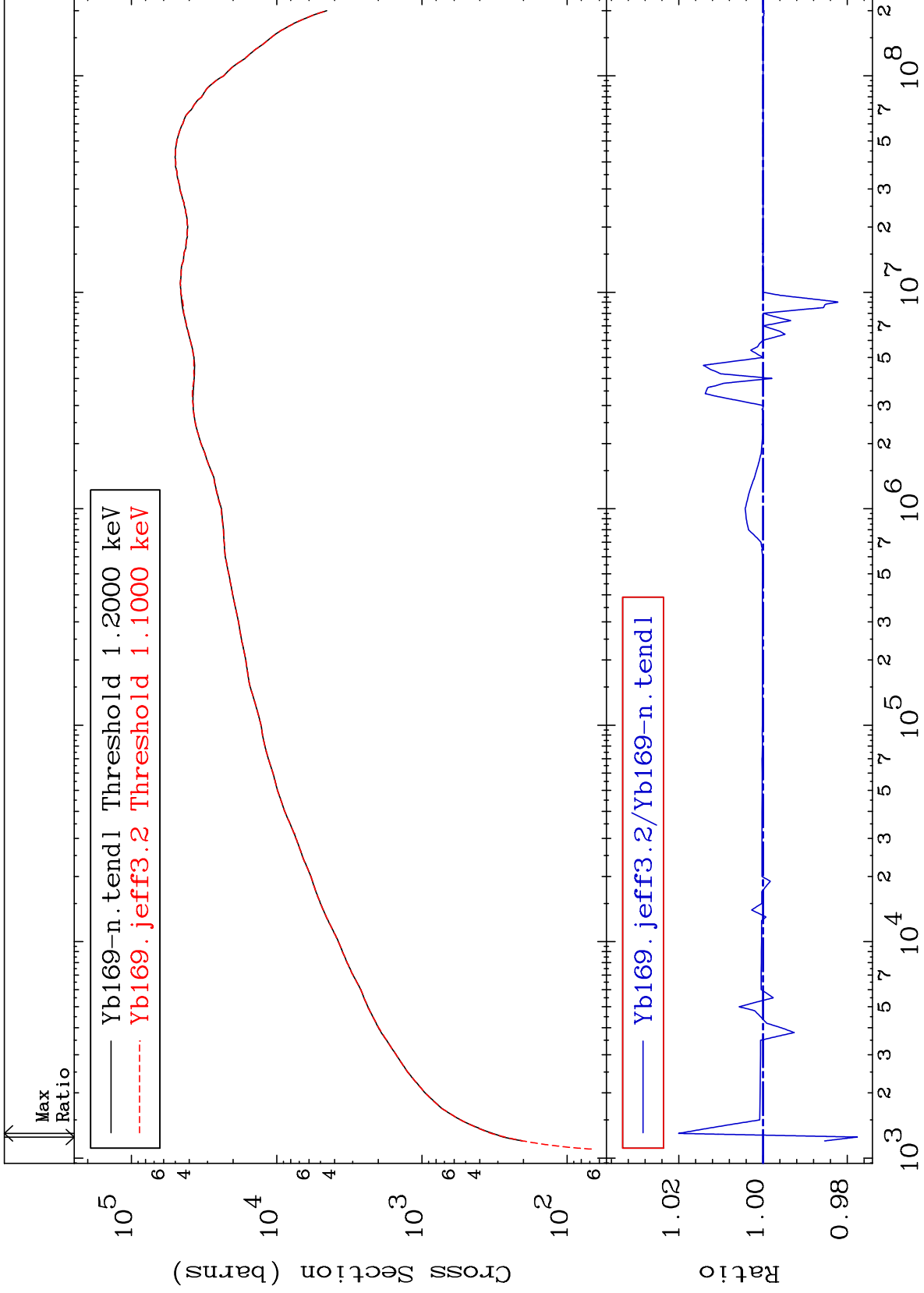
Incident Energy (eV)

70-Yb-169

MAT 7028

Dpa elastic (mt2)
Cross Section

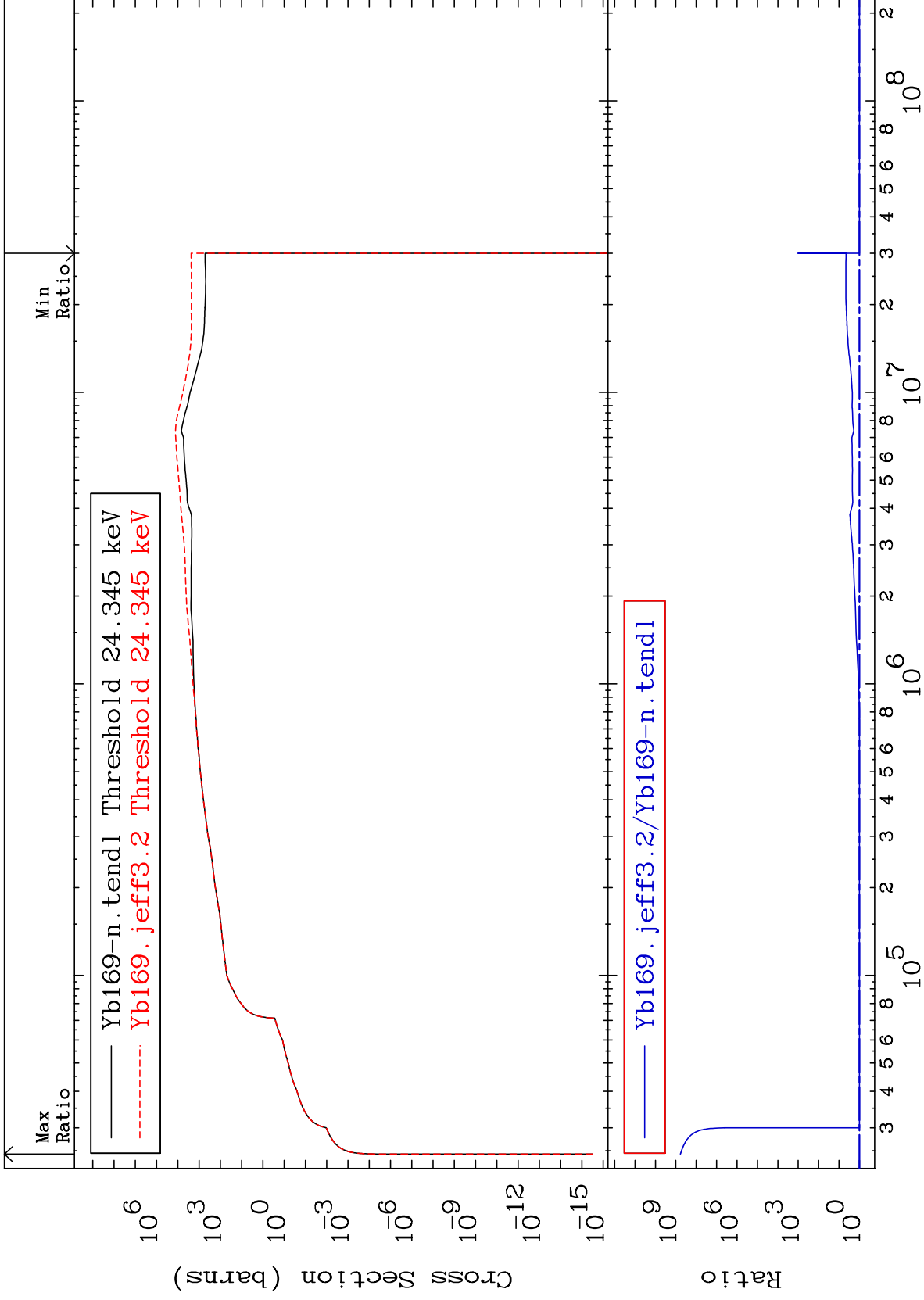
70-Yb-169
-2.237 To 2.005 %

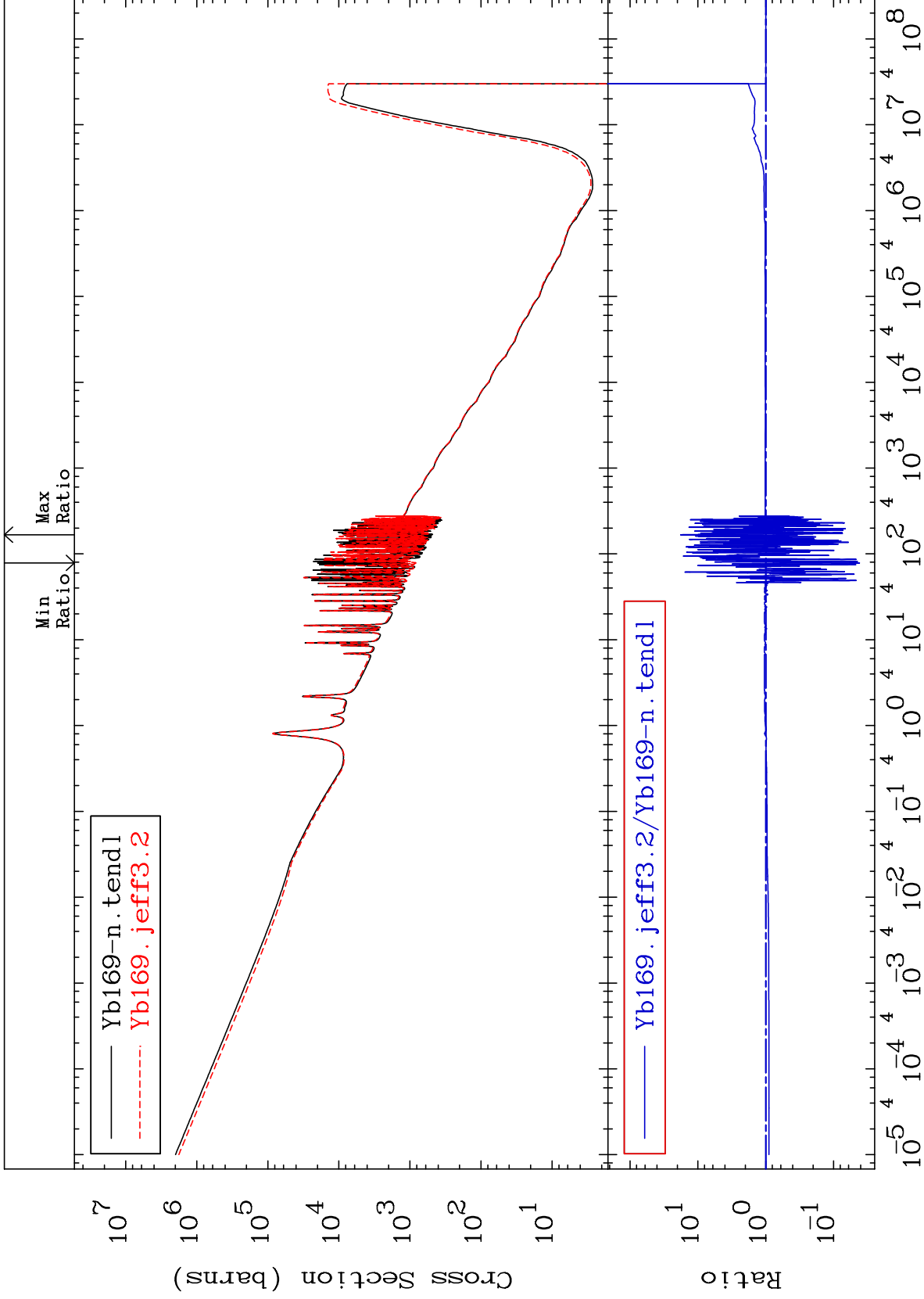


77

Incident Energy (eV)

70-Yb-169





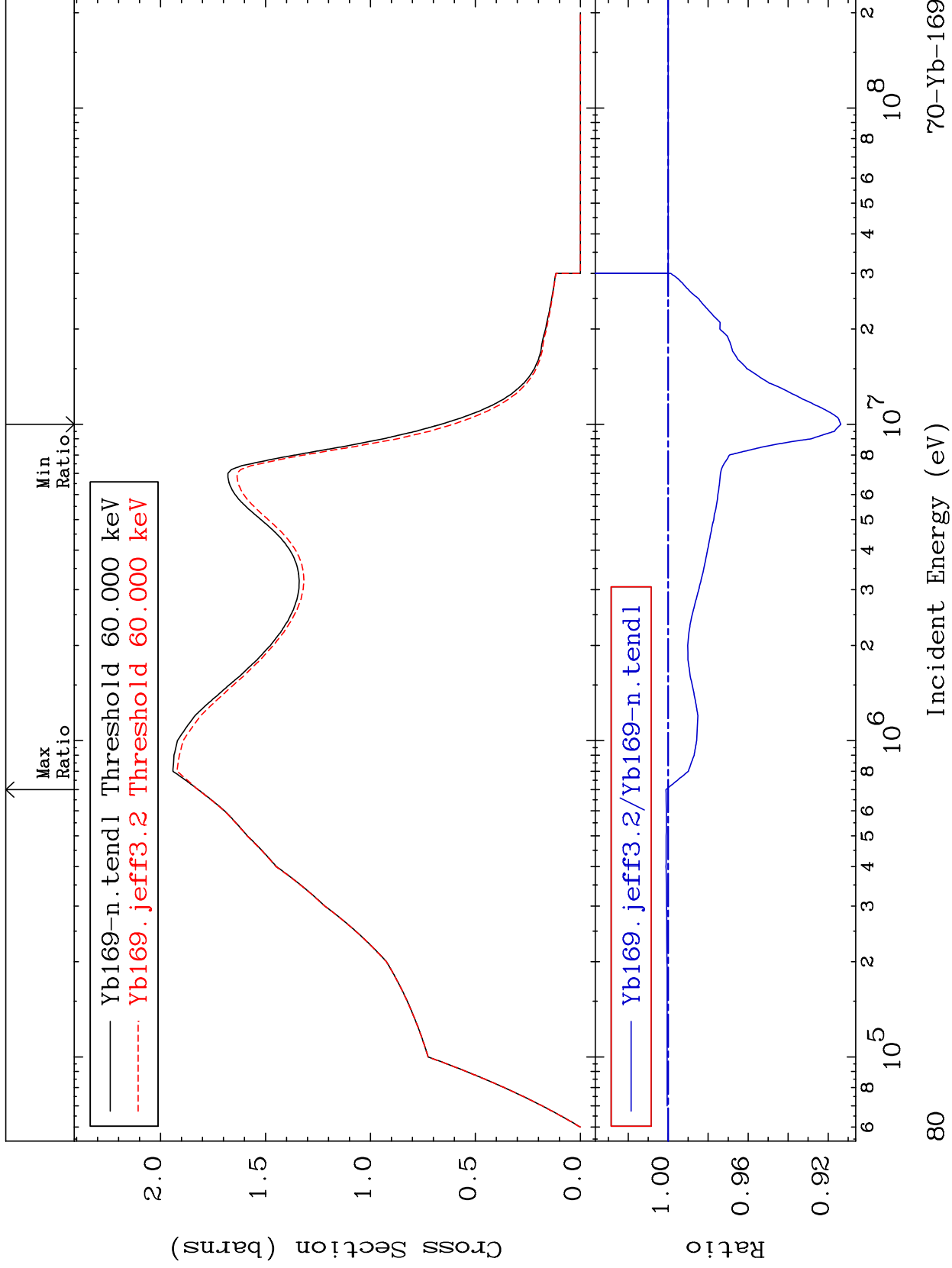
MAT 7028

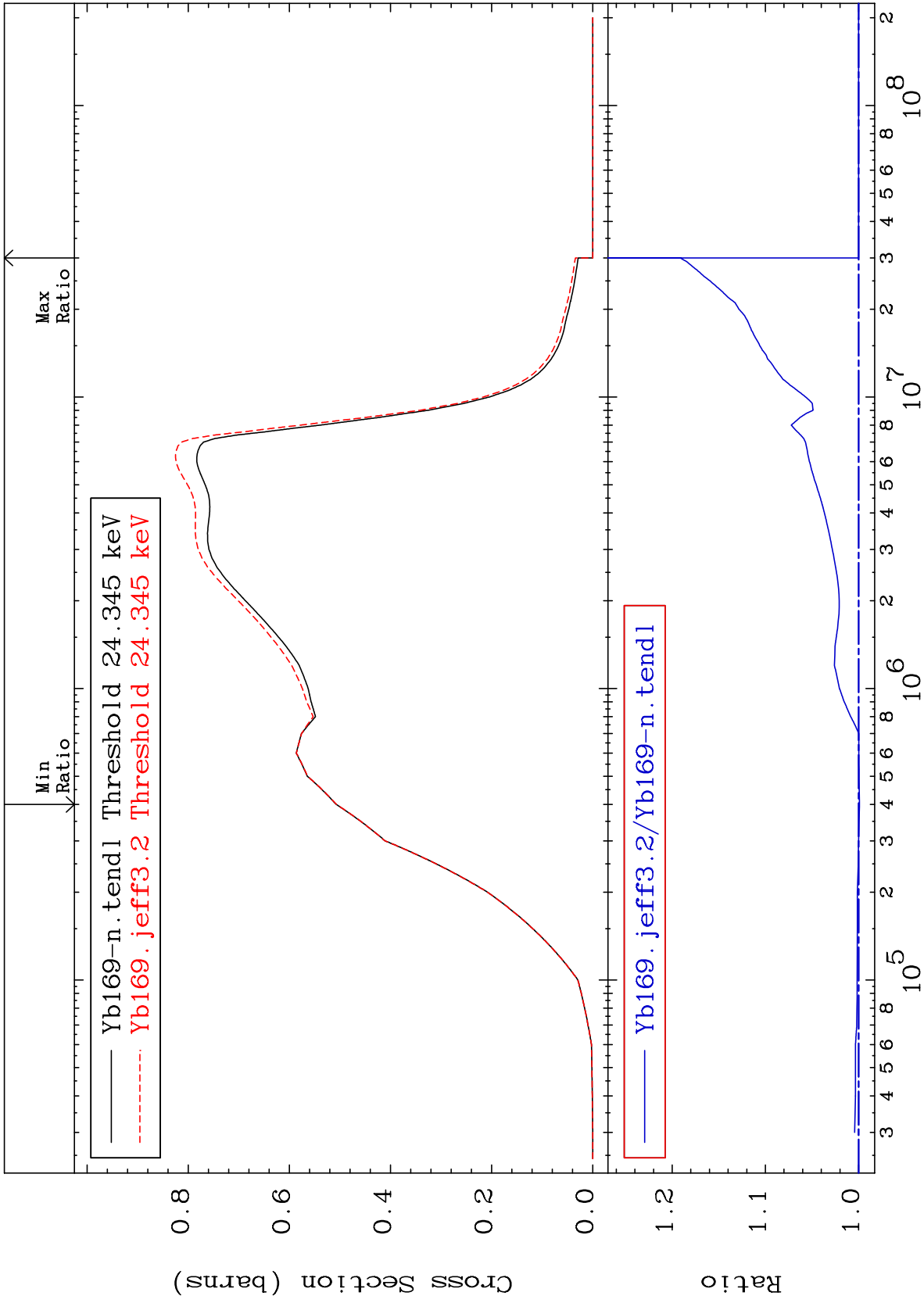
Inelastic: 70-Yb-169g

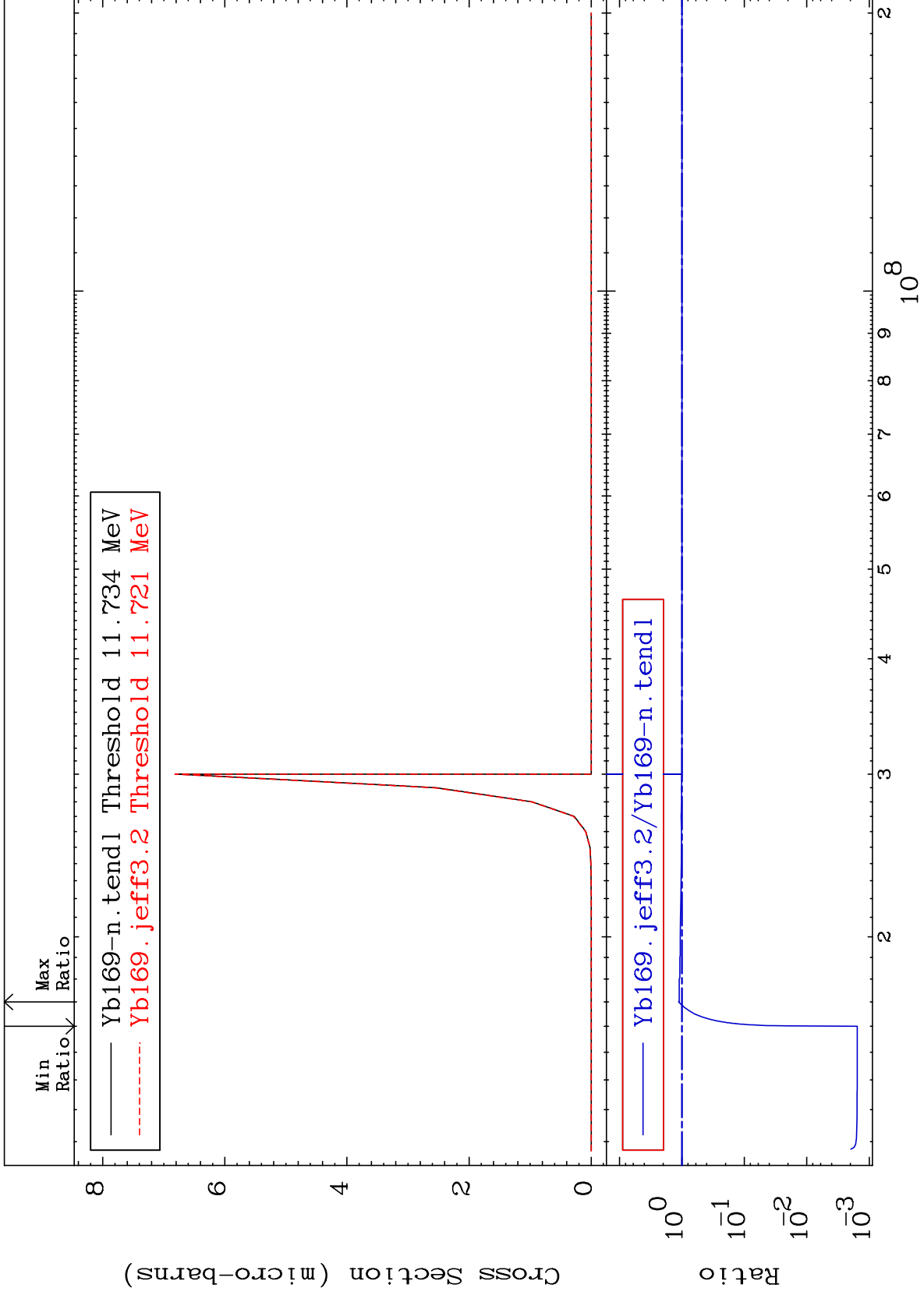
70-Yb-169

Radionuclide Production Cross Section

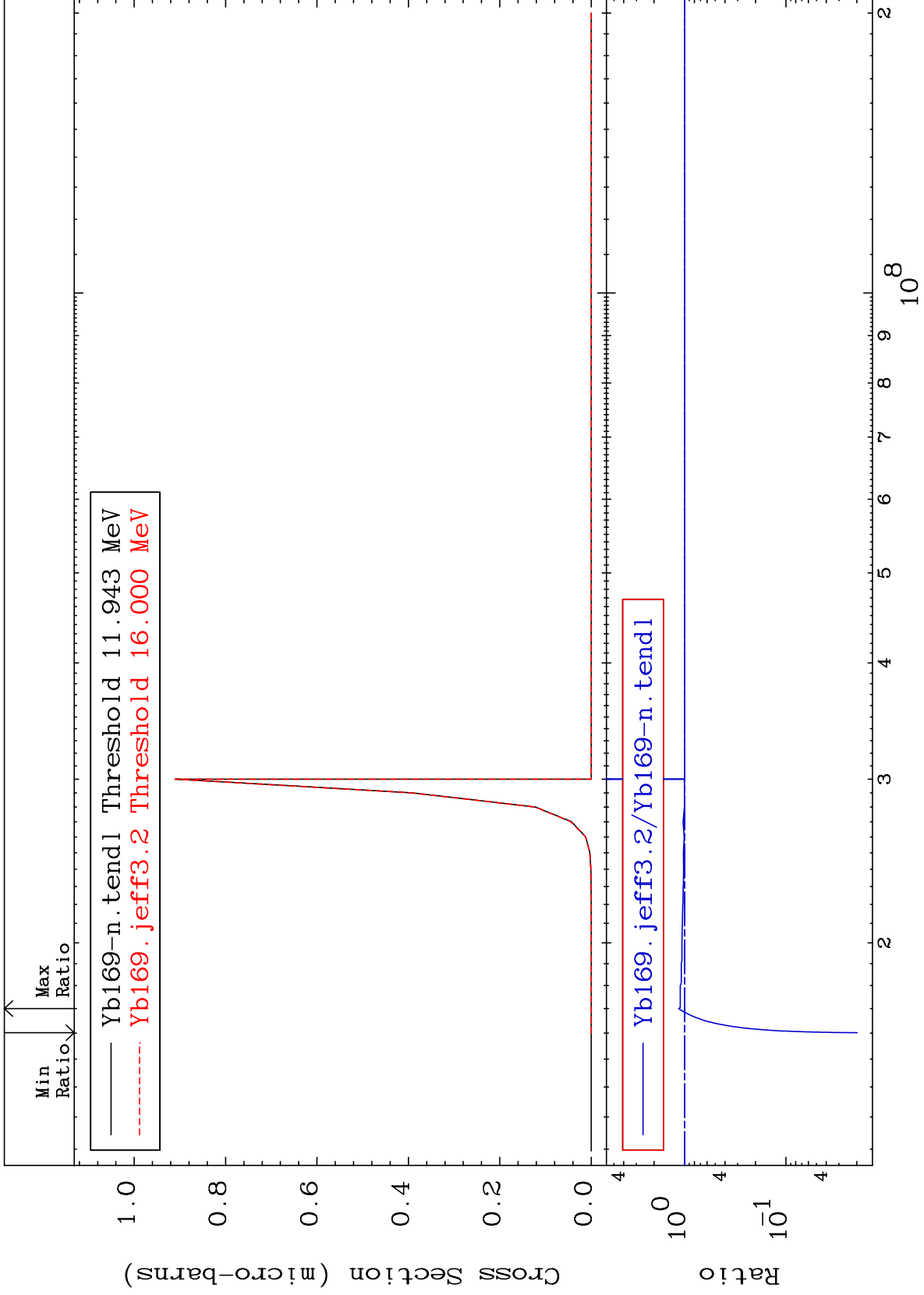
-8.637 To 0.111 %

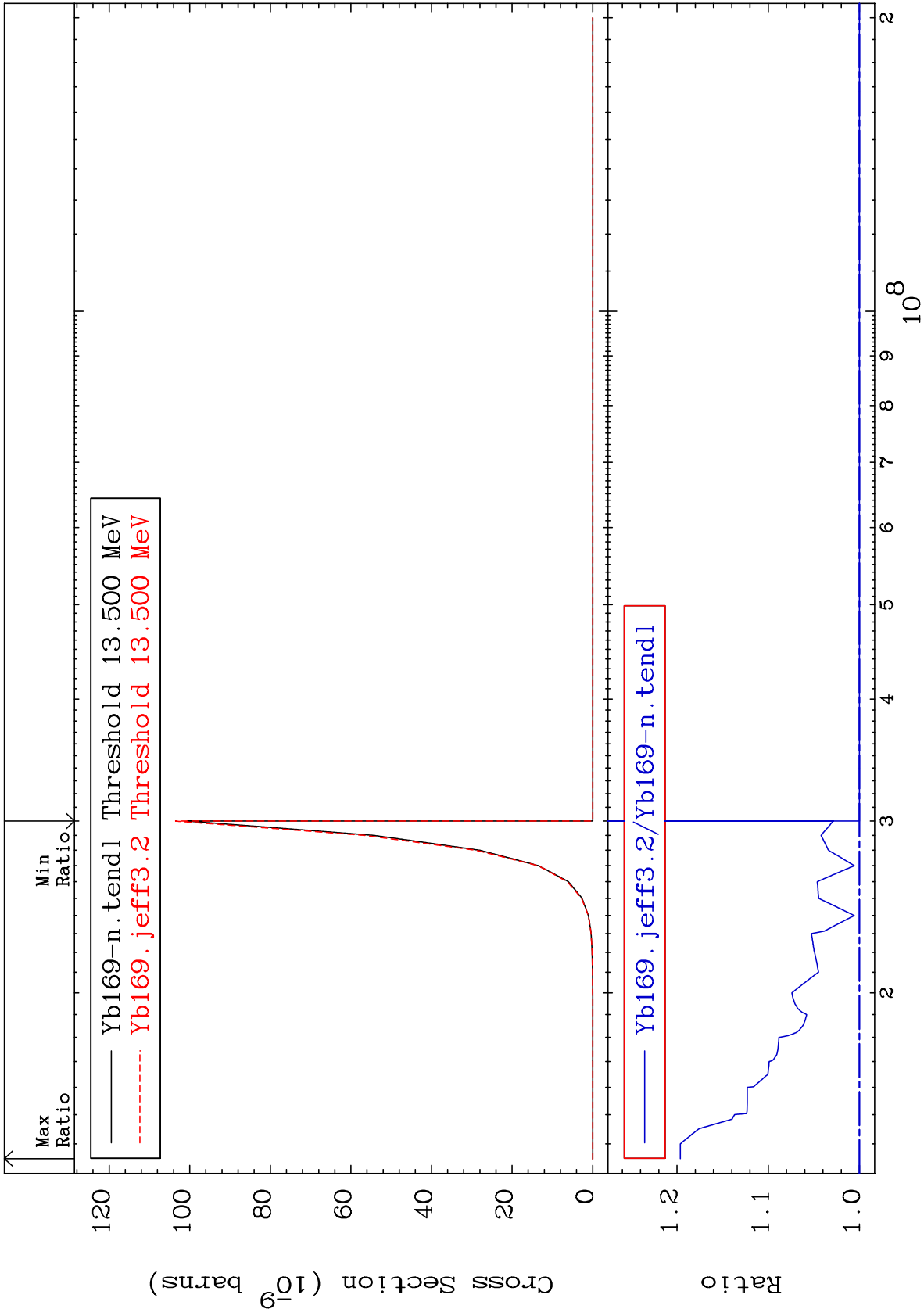




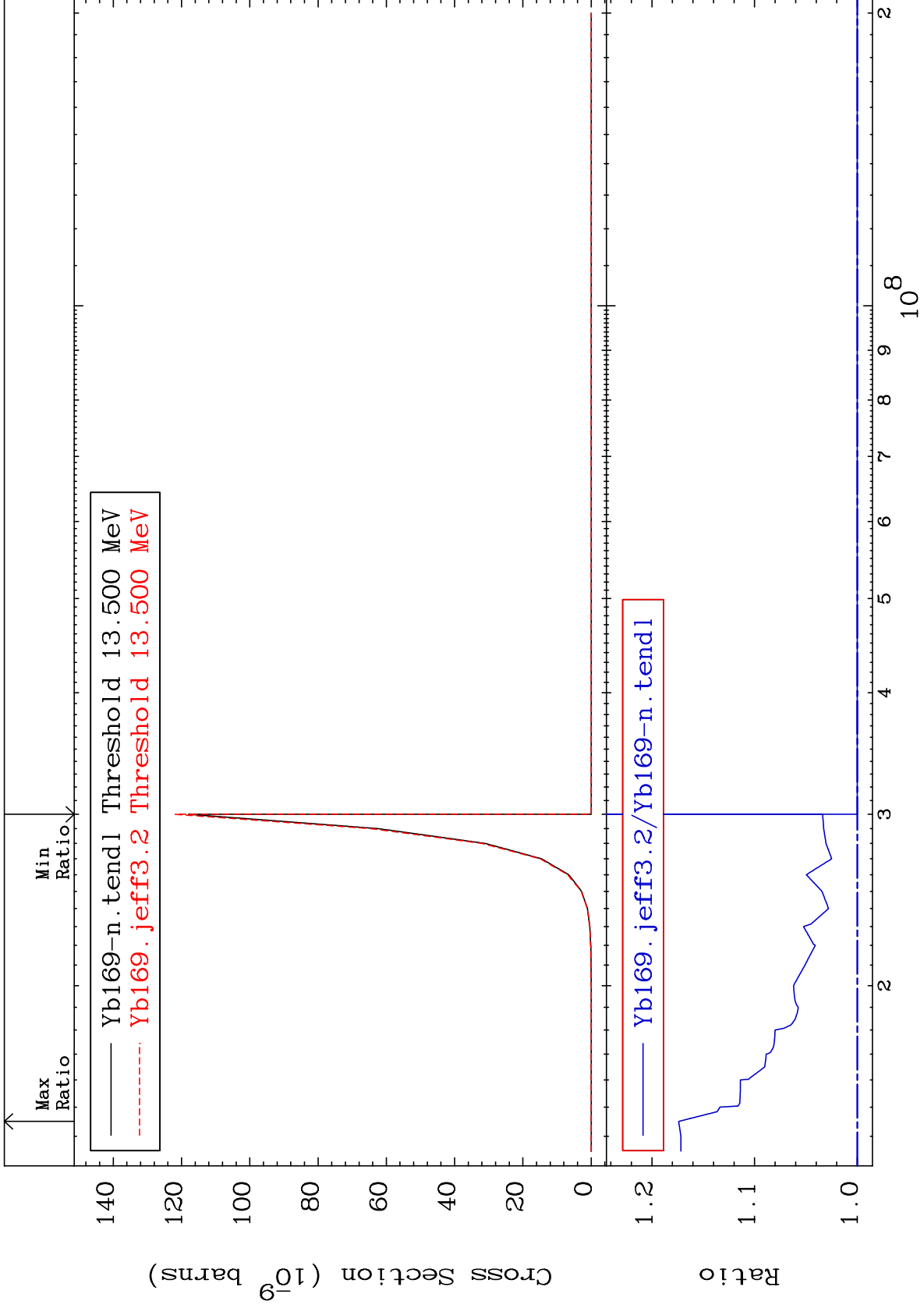


Radionuclide Production Cross Section -98.02 To 14.63 %

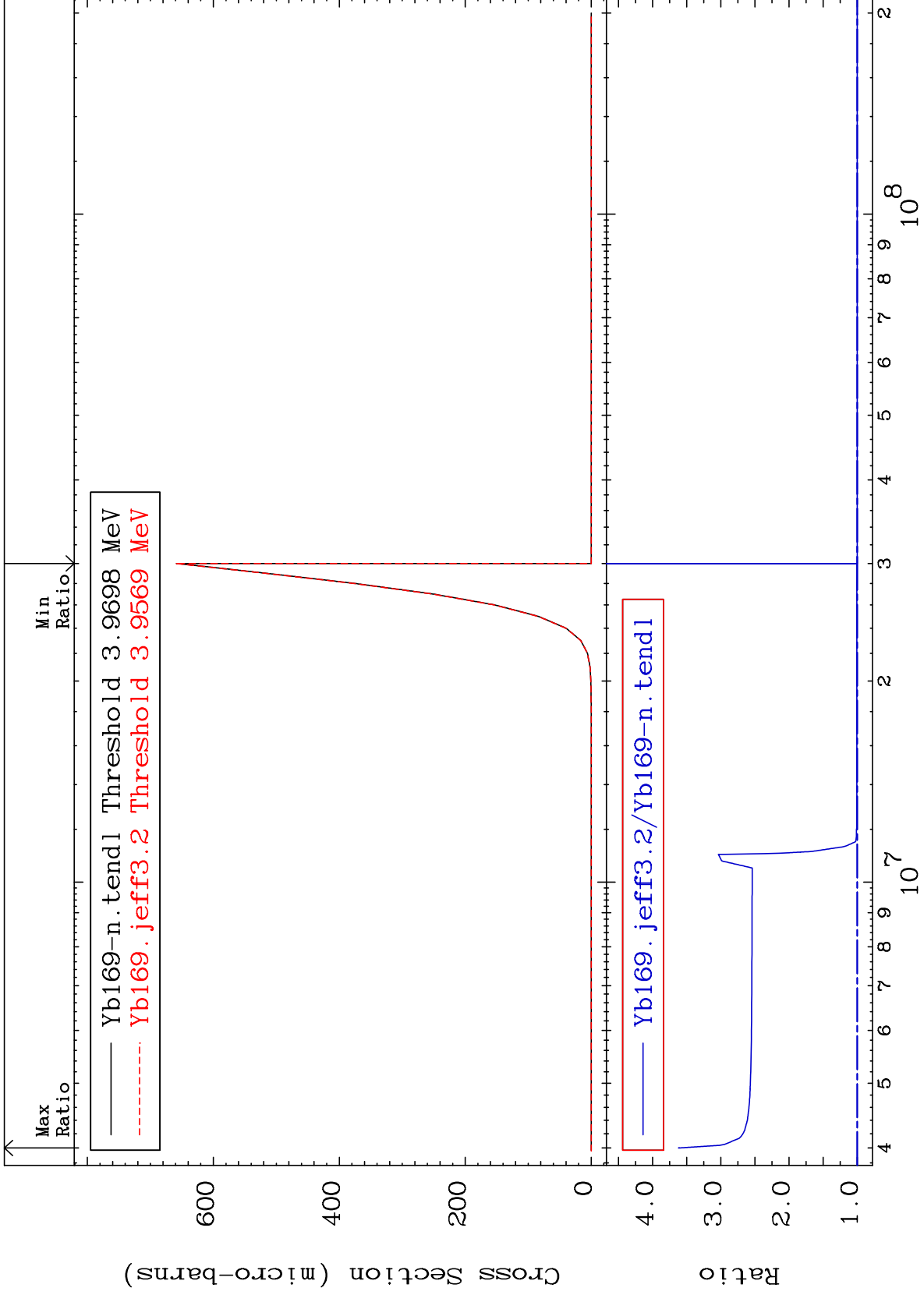




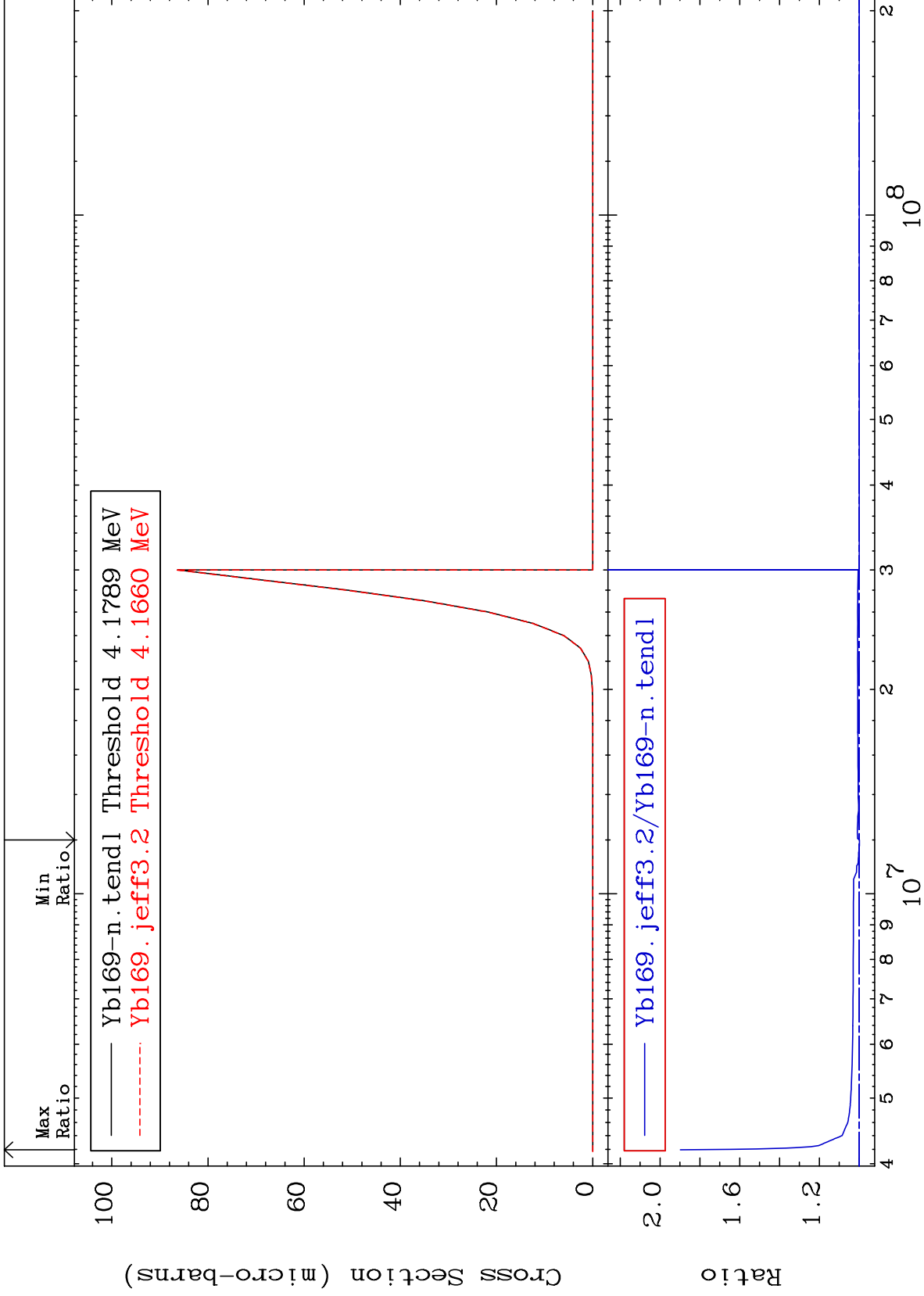
Radionuclide Production Cross Section 0.000 To 17.40 %



Radionuclide Production Cross Section 0.000 To 261.8 %



Radionuclide Production Cross Section -0.124 To 89.81 %

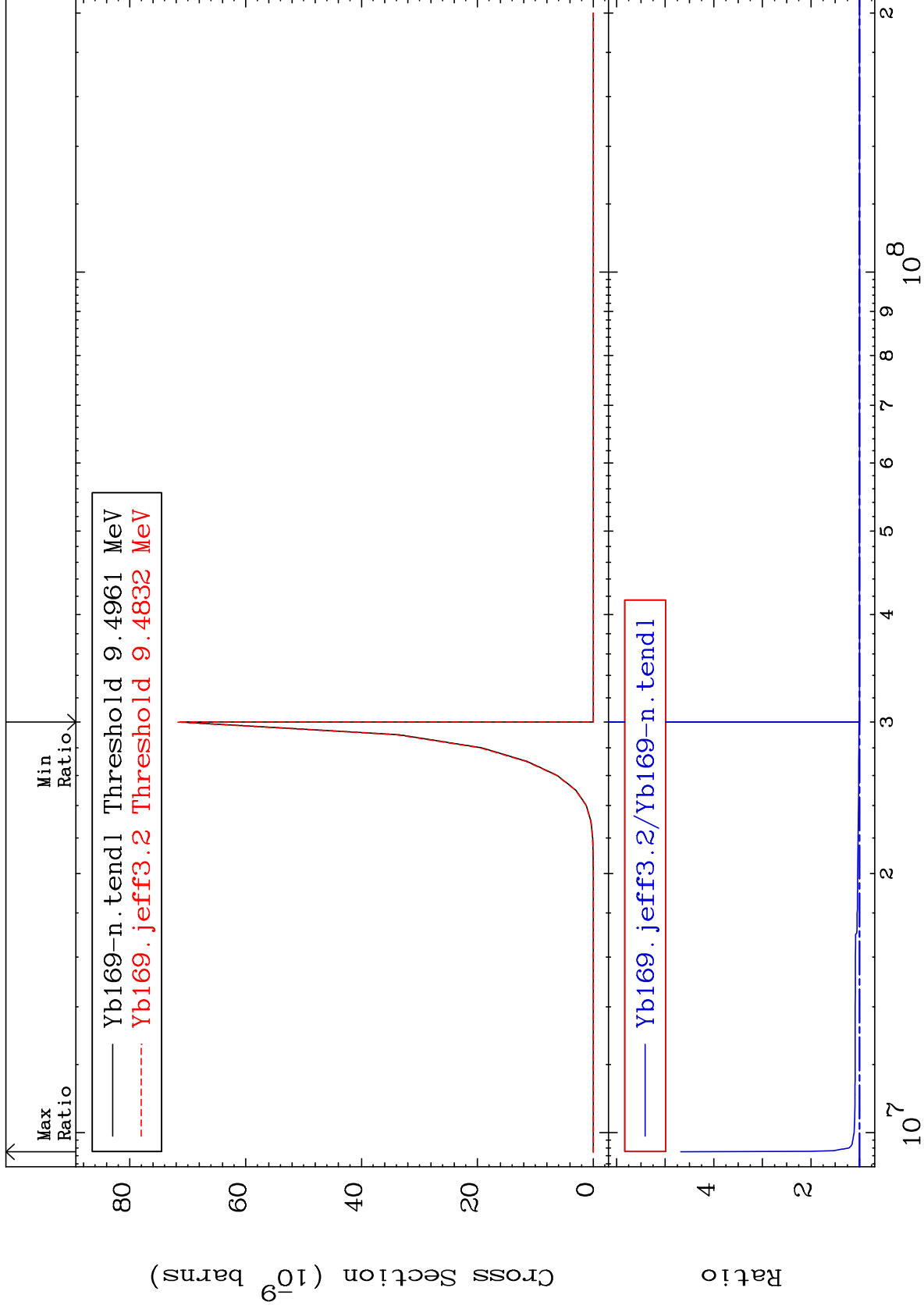


MAT 7028

(n, p) d: 68-Er-167g

70-Yb-169

Radionuclide Production Cross Section 0.000 To 368.0 %



88

Incident Energy (eV)

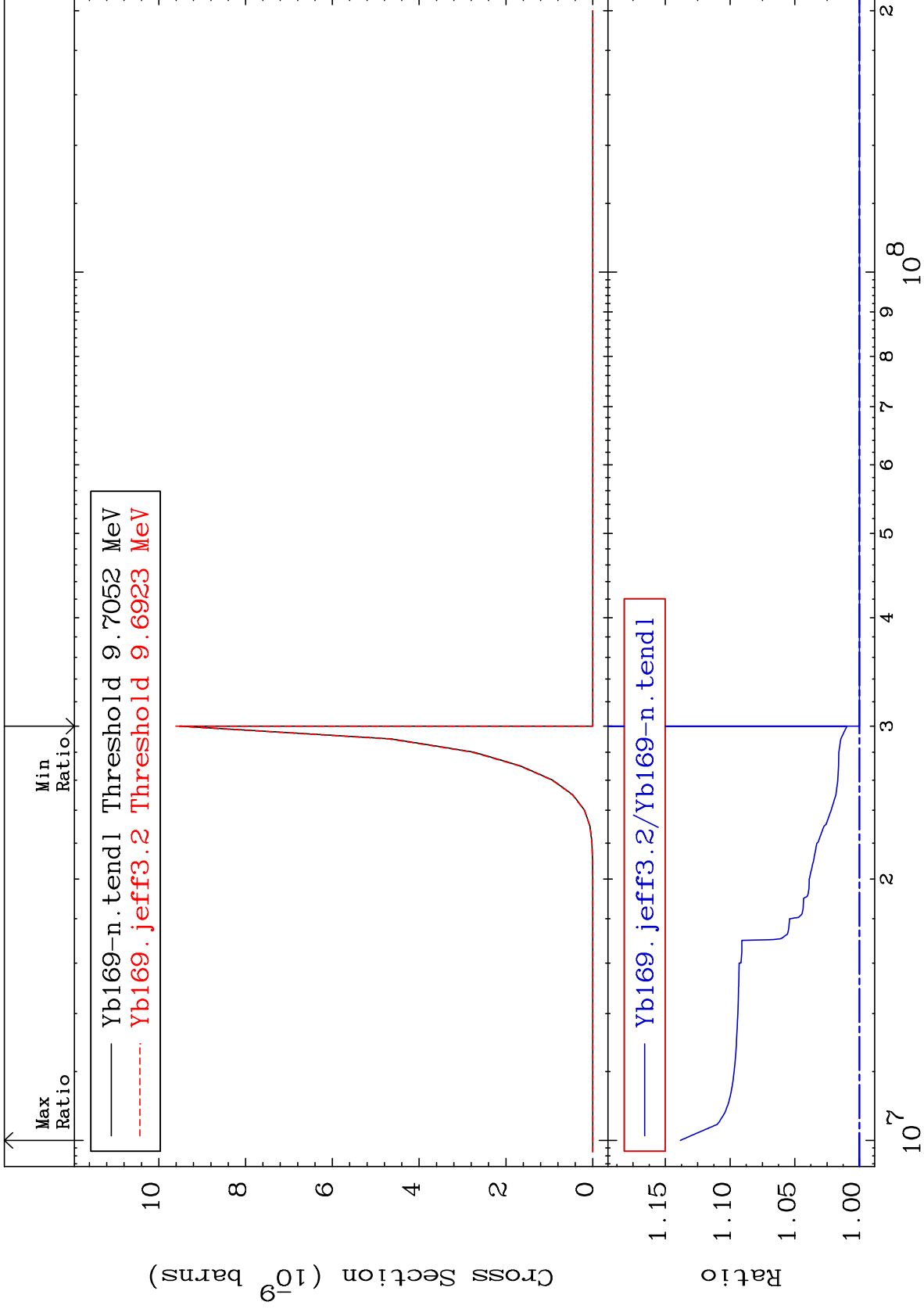
70-Yb-169

MAT 7028

(n,p) d:68-Er-167m3

70-Yb-169

Radionuclide Production Cross Section 0.000 To 13.84 %



89

Incident Energy (eV)

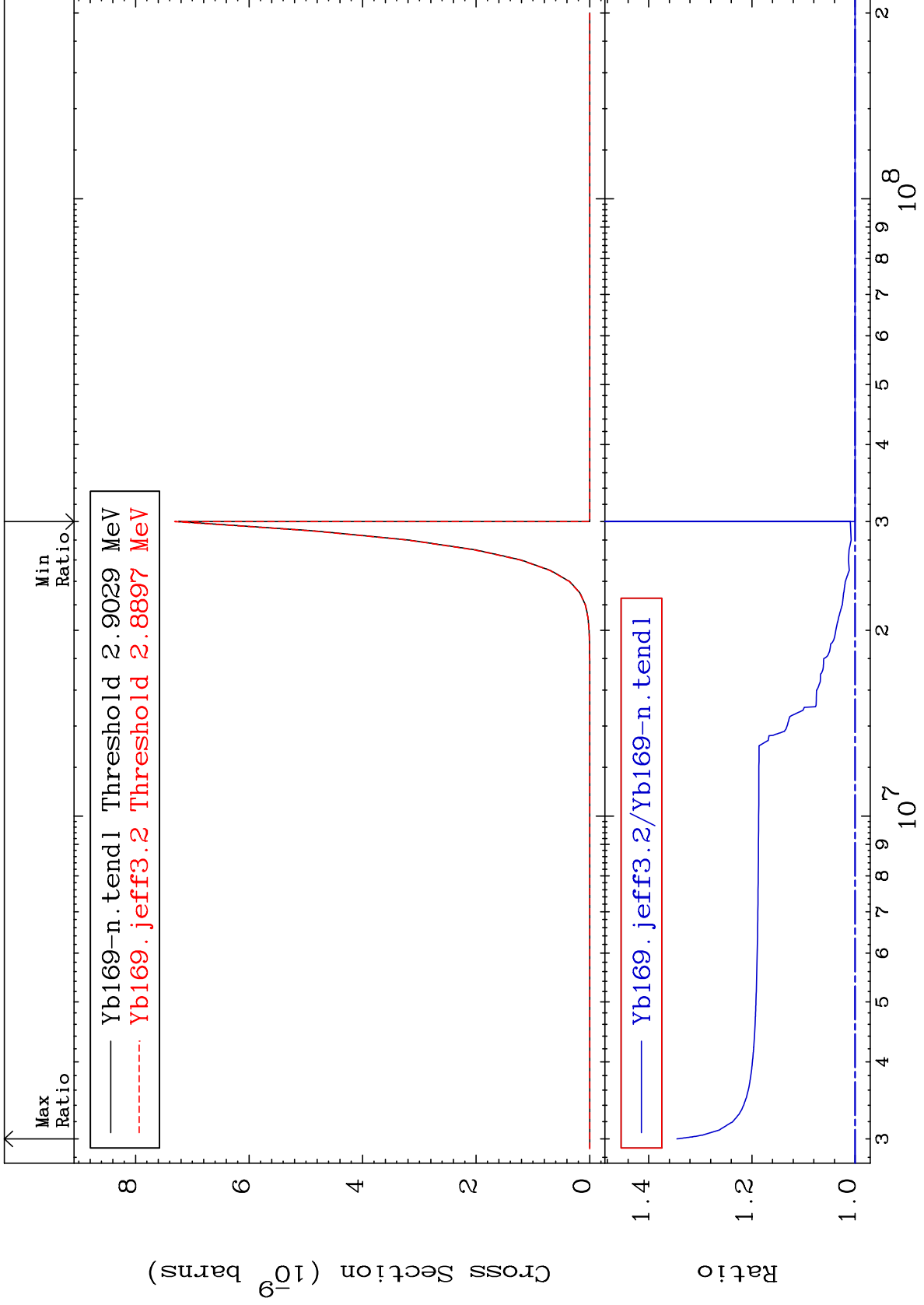
70-Yb-169

MAT 7028

(n, d) α :67-Ho-164g

Radionuclide Production Cross Section 0.000 To 34.53 %

70-Yb-169



90

MAT 7028

(n,d) α :67-Ho-164m3

70-Yb-169

Radionuclide Production Cross Section 0.000 To 39.65 %

