

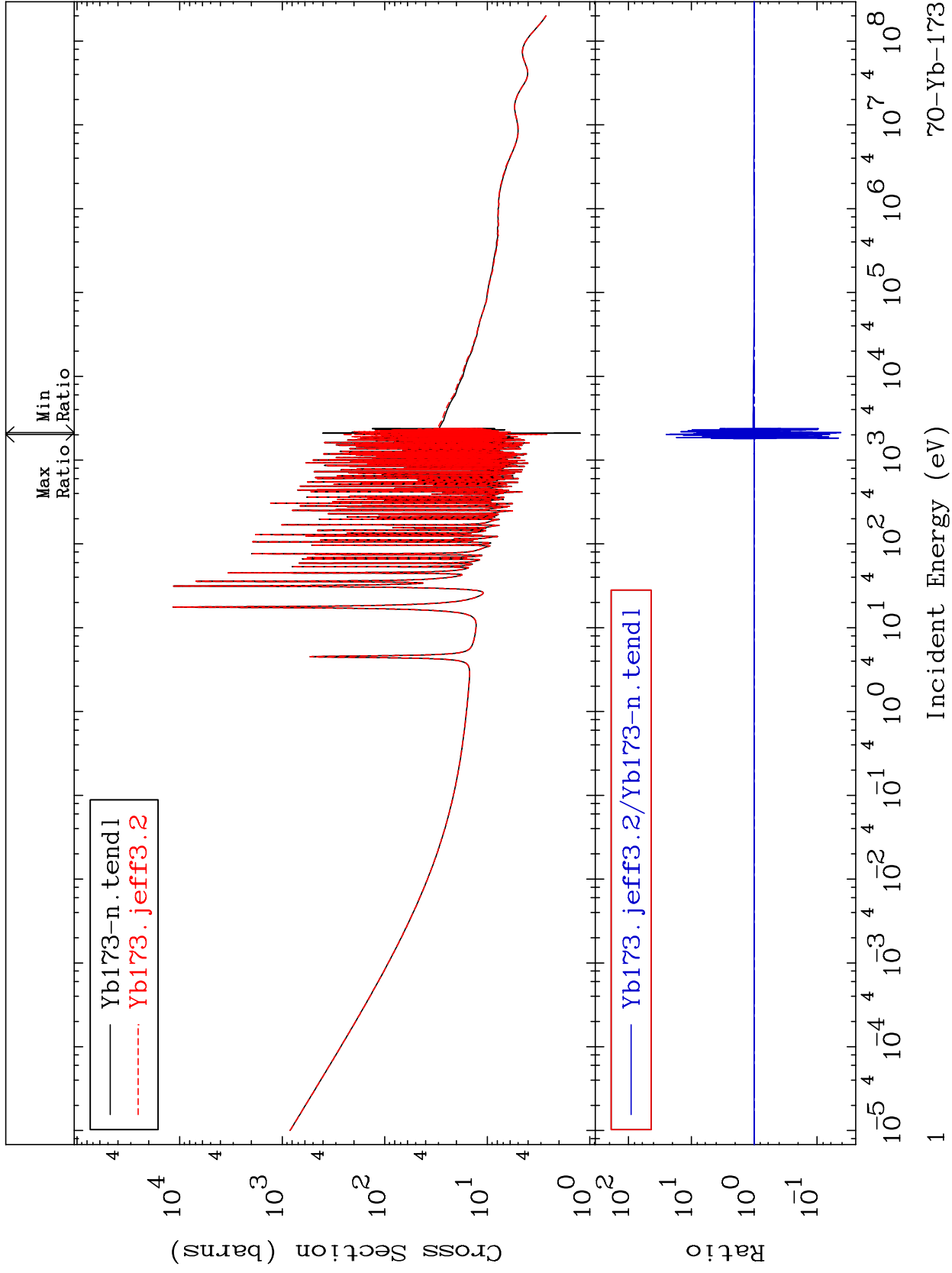
MAT 7040

Total

70-Yb-173

Cross Section

-95.82 To 2428. %



Incident Energy (eV)

70-Yb-173

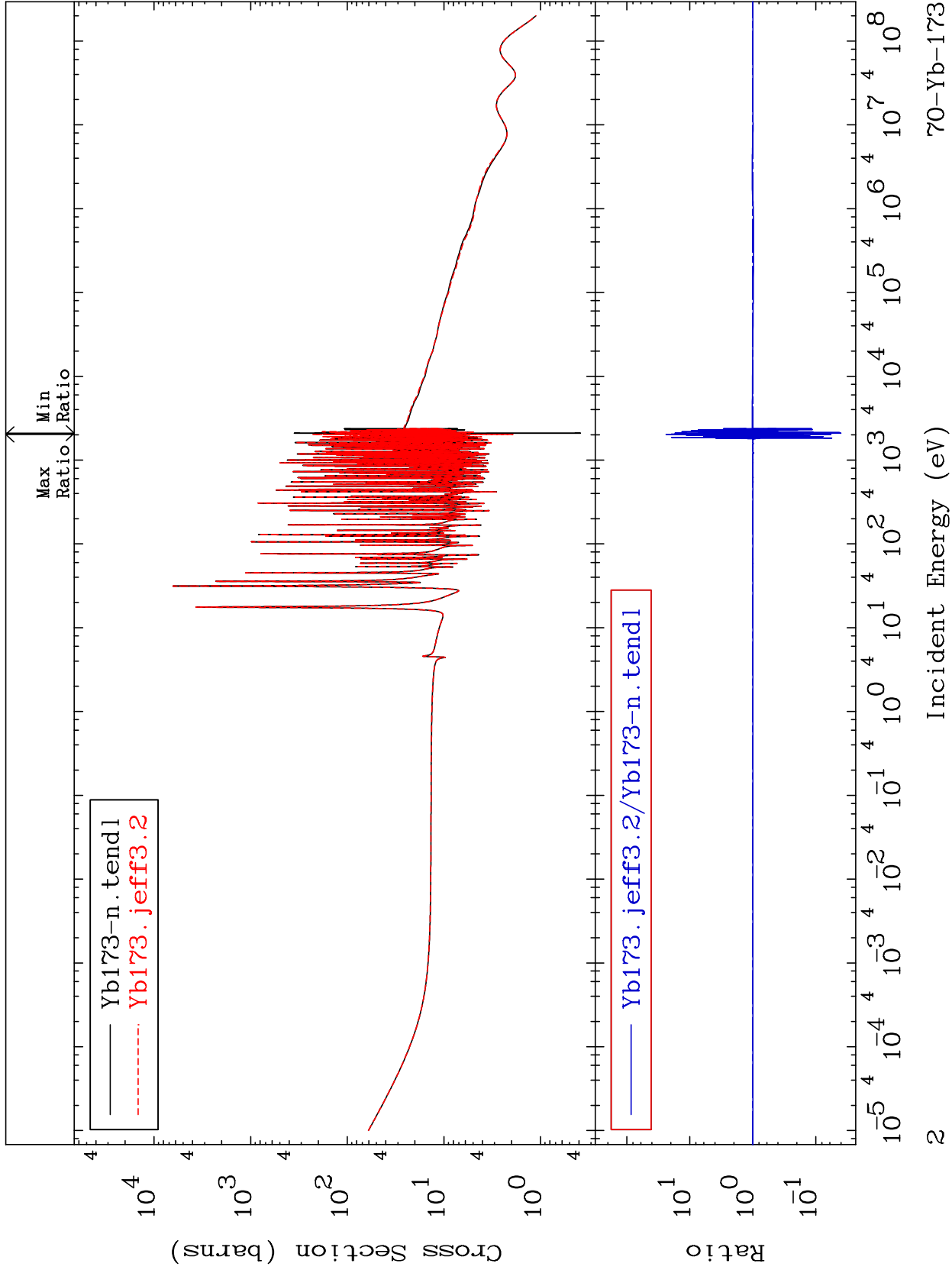
MAT 7040

Elastic

Cross Section

70-Yb-173

-95.98 To 2293. %



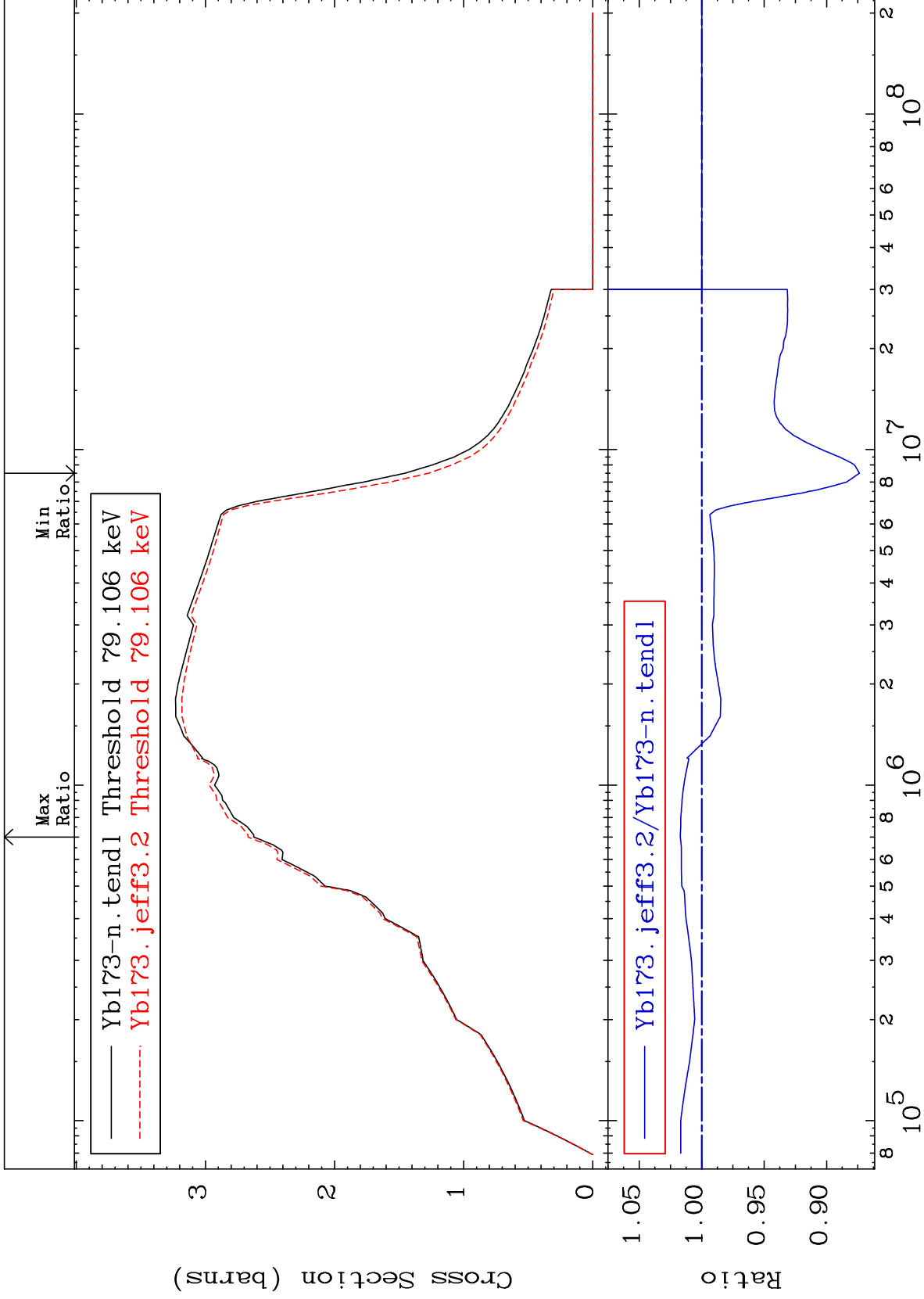
Incident Energy (eV)

70-Yb-173

MAT 7040

Inelastic
Cross Section

70-Yb-173
-12.63 To 1.710 %



3

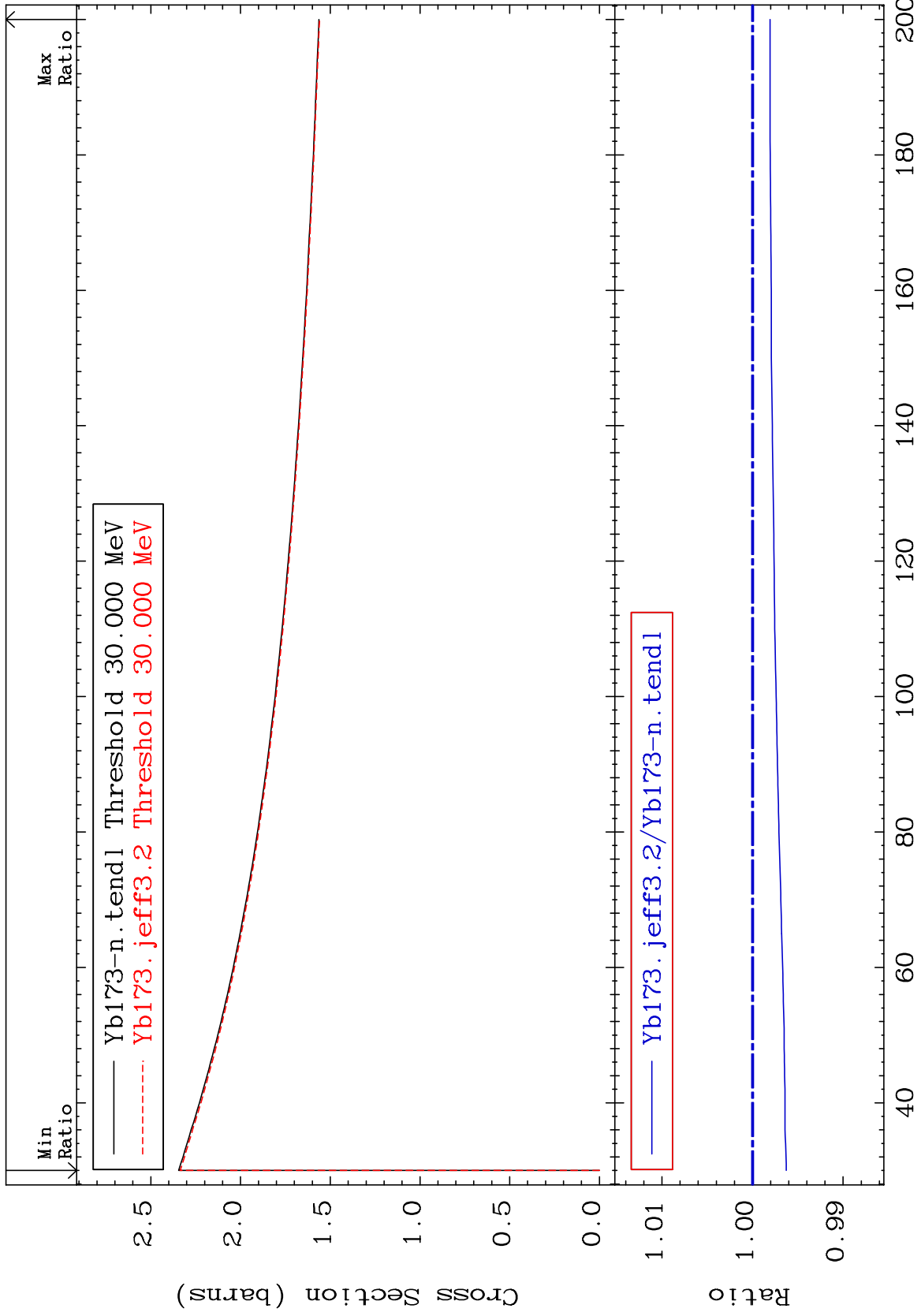
Incident Energy (eV)

70-Yb-173

MAT 7040

(n, remainder)
Cross Section

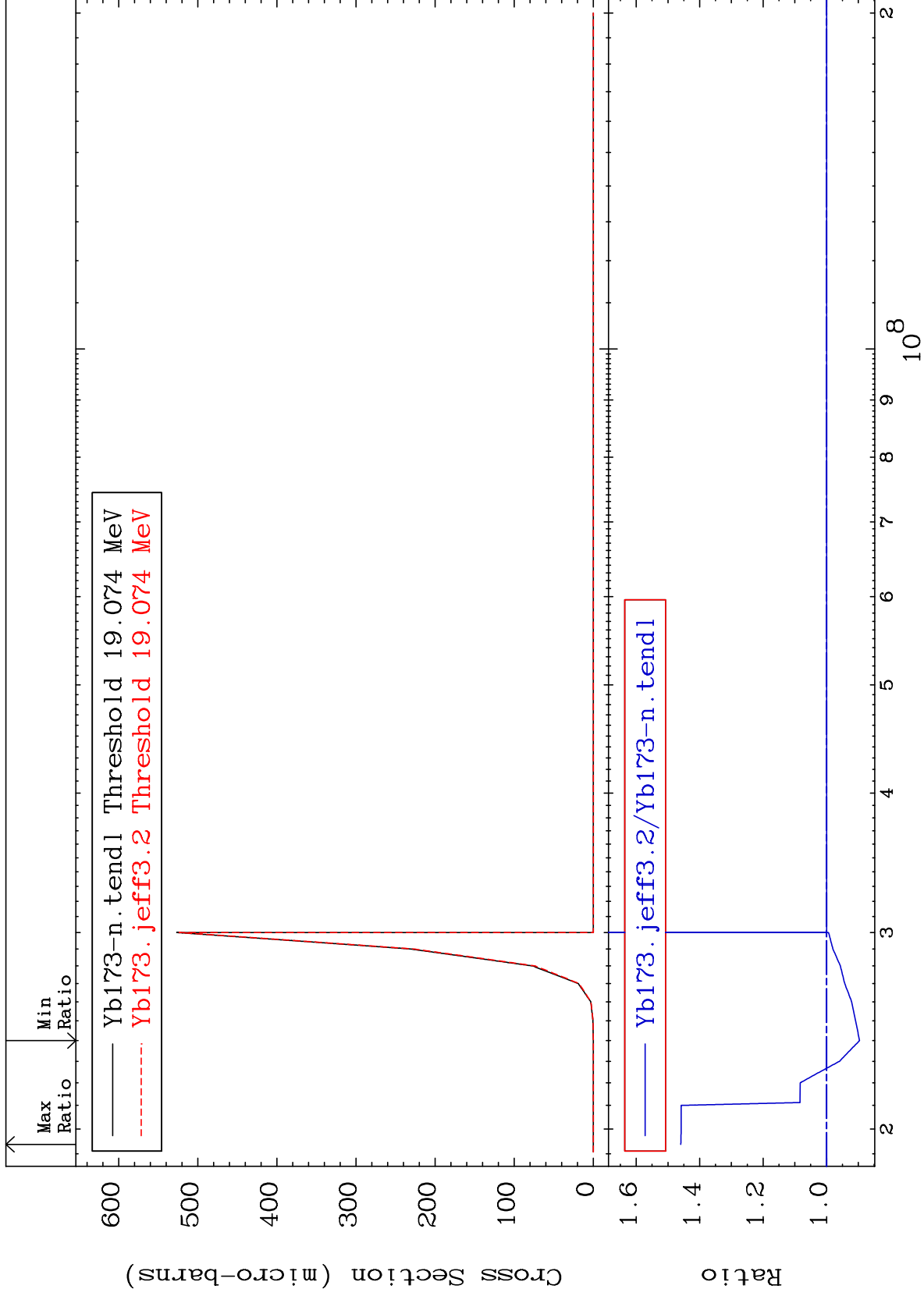
70-Yb-173
-0.373 To -0.193%



MAT 7040

(n,2n) d
Cross Section

⁷⁰Yb-173
-10.39 To 45.95 %



5

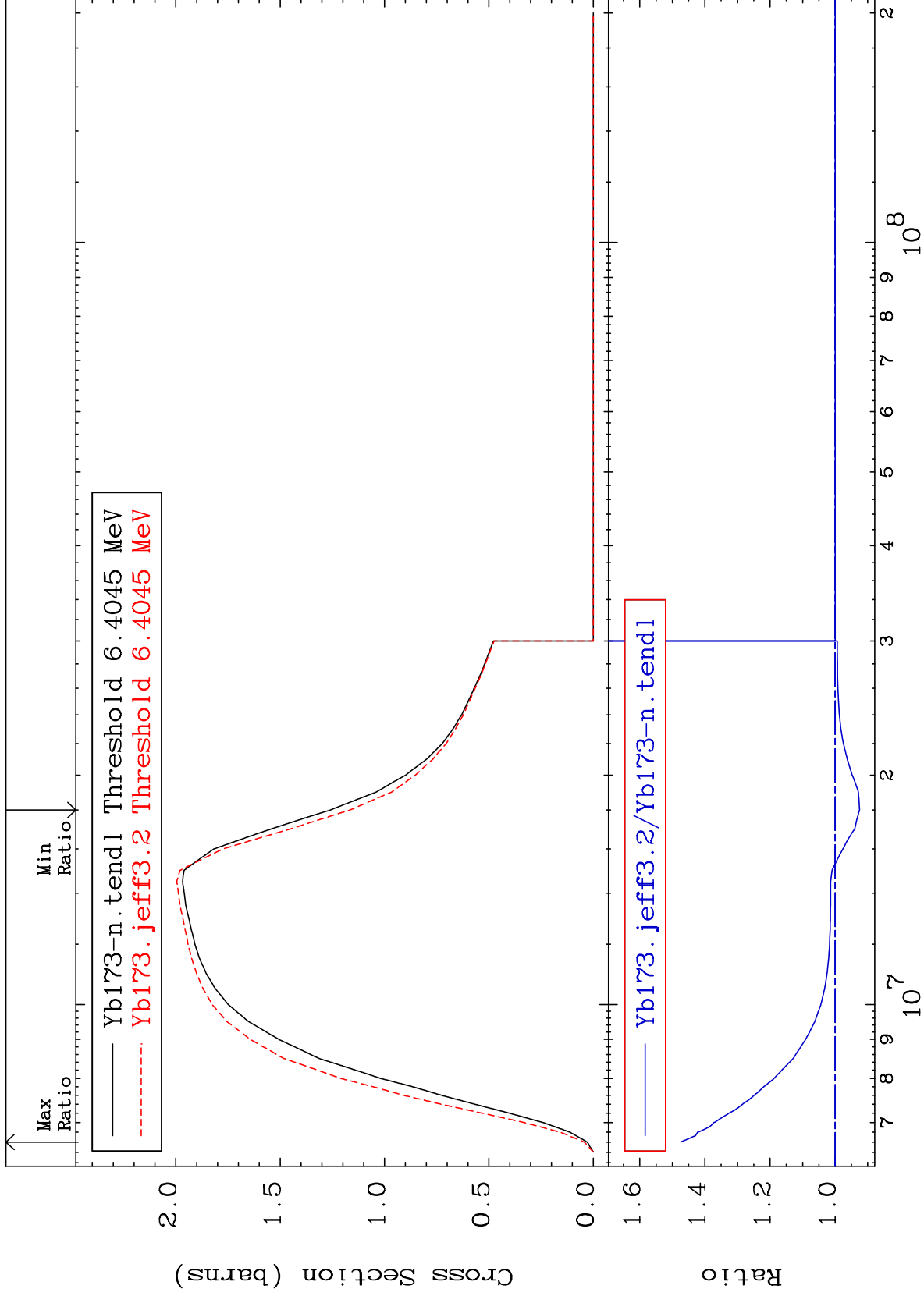
Incident Energy (eV)

⁷⁰Yb-173

MAT 7040

(n,2n)
Cross Section

⁷⁰Yb-173
-7.480 To 47.41 %



6

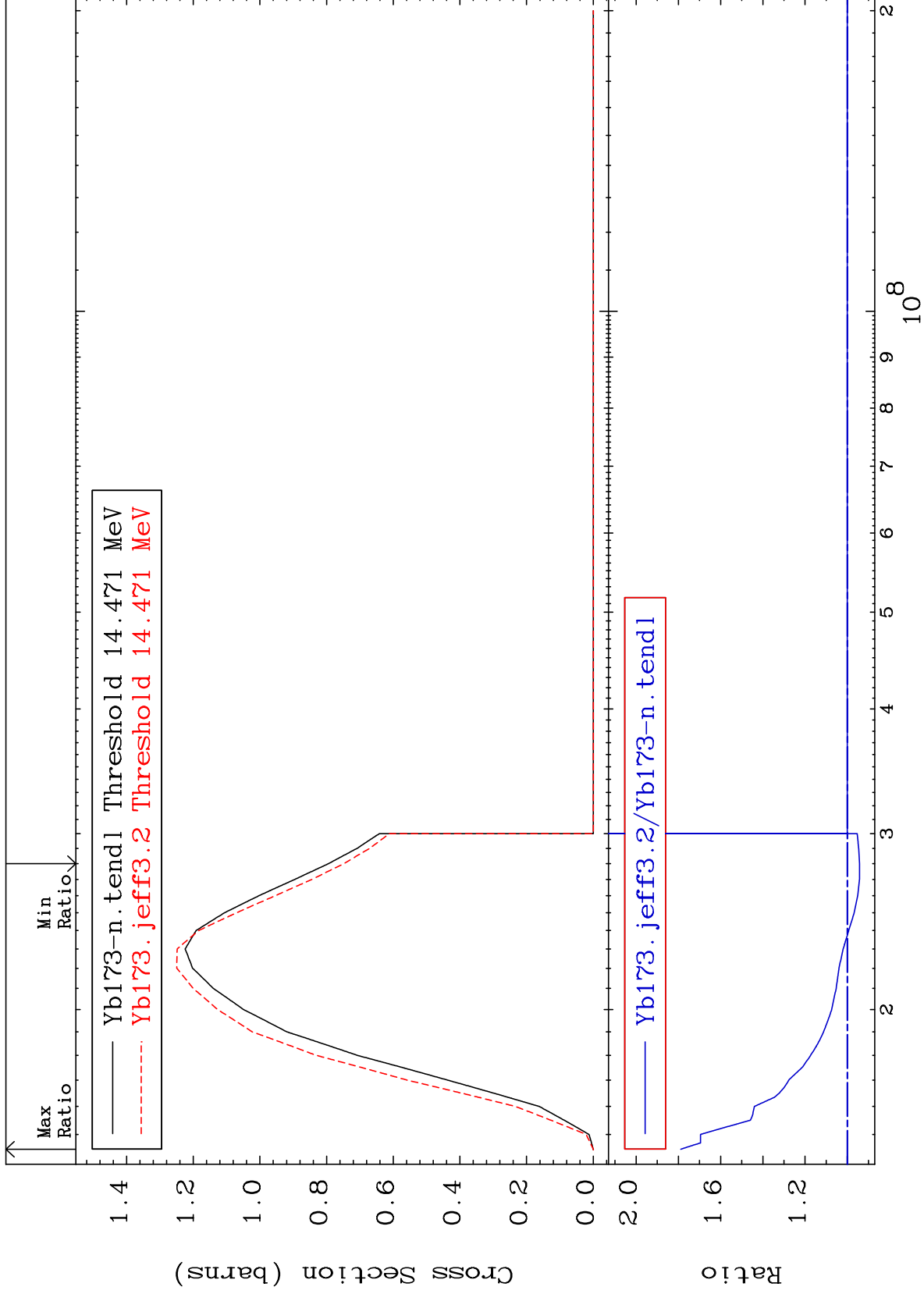
Incident Energy (eV)

⁷⁰Yb-173

MAT 7040

(n,3n)
Cross Section

70-Yb-173
-5.777 To 78.86 %



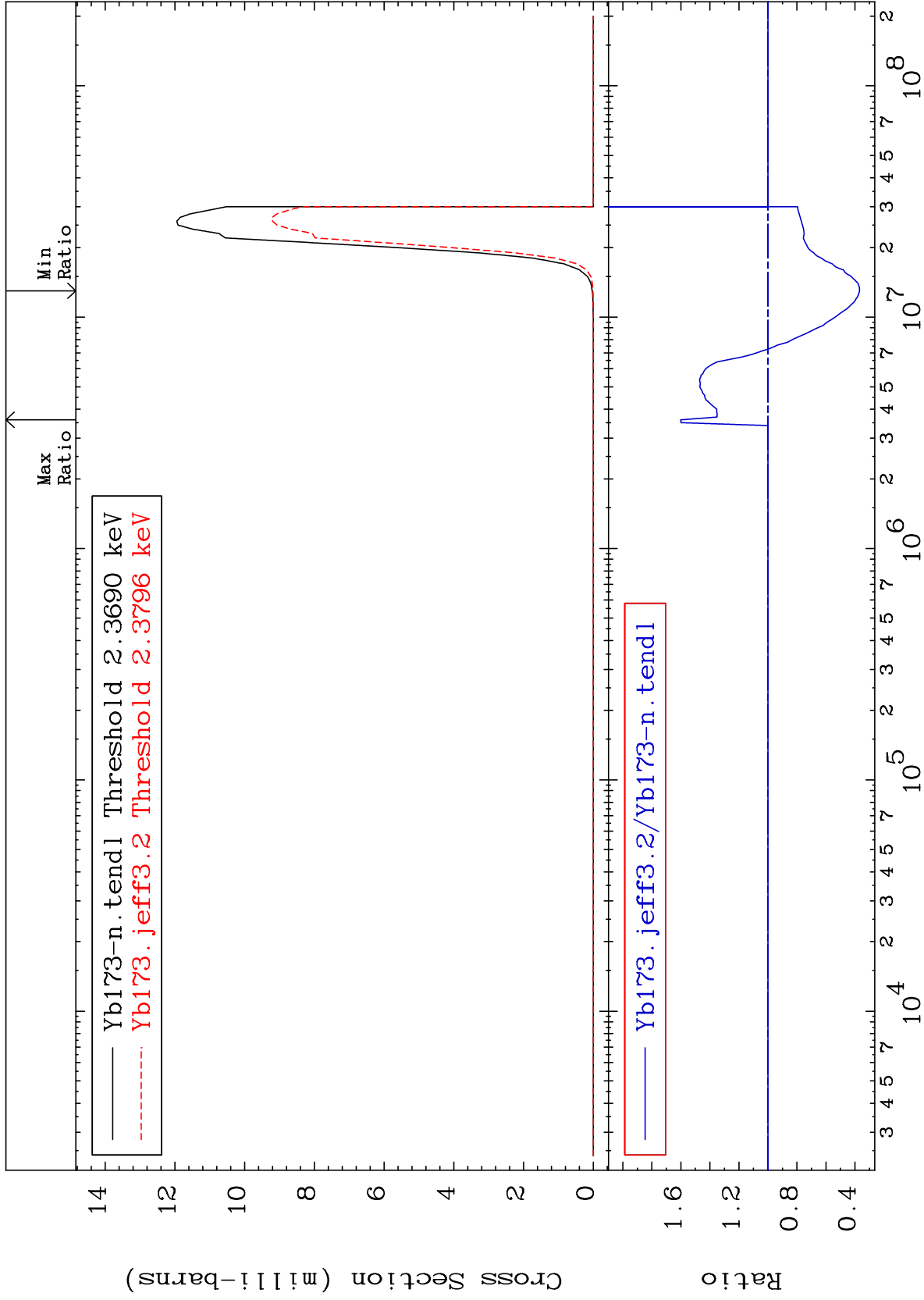
MAT 7040

$(n, n') \alpha$

Cross Section

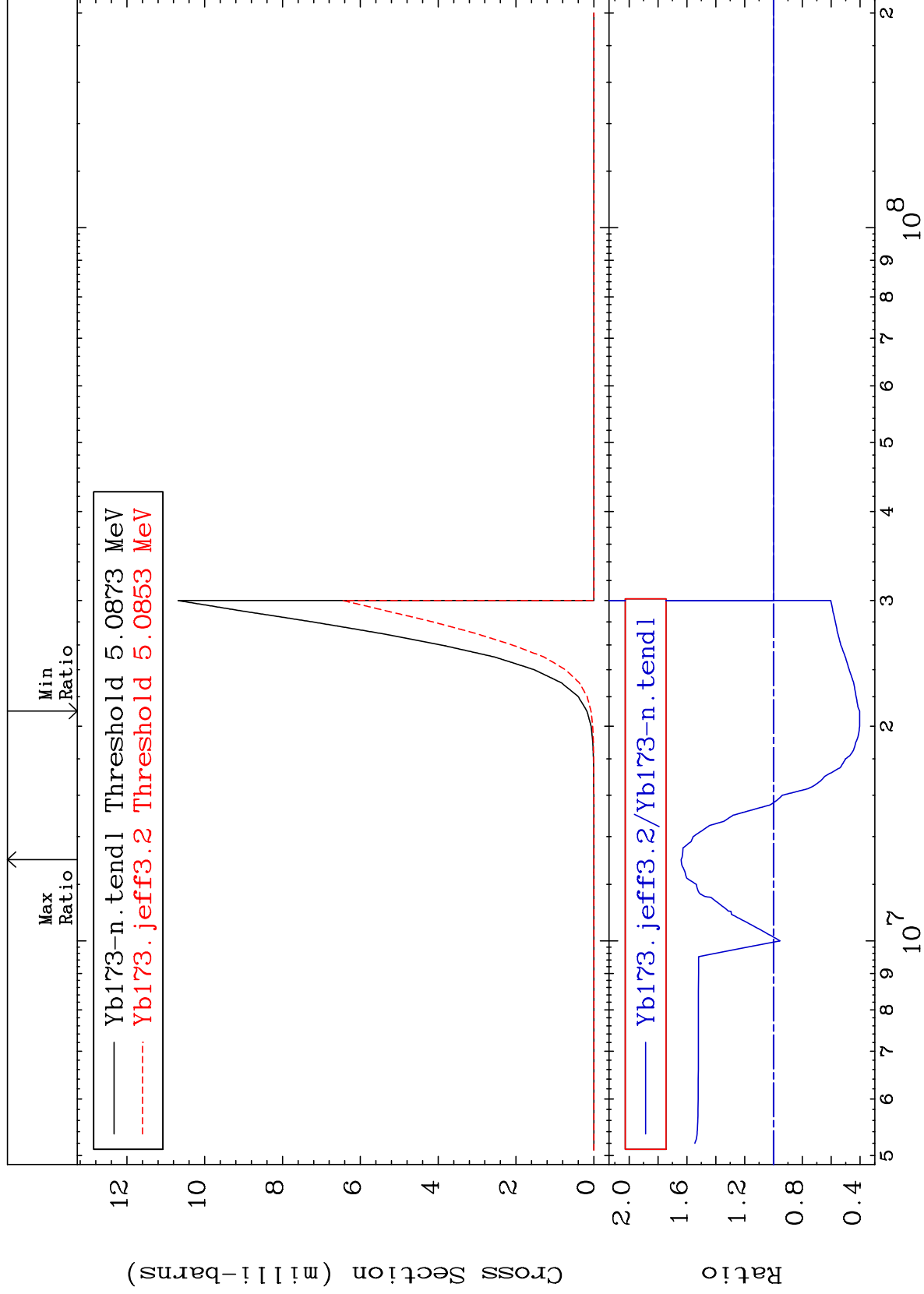
70-Yb-173

-63.18 To 60.09 %



MAT 7040

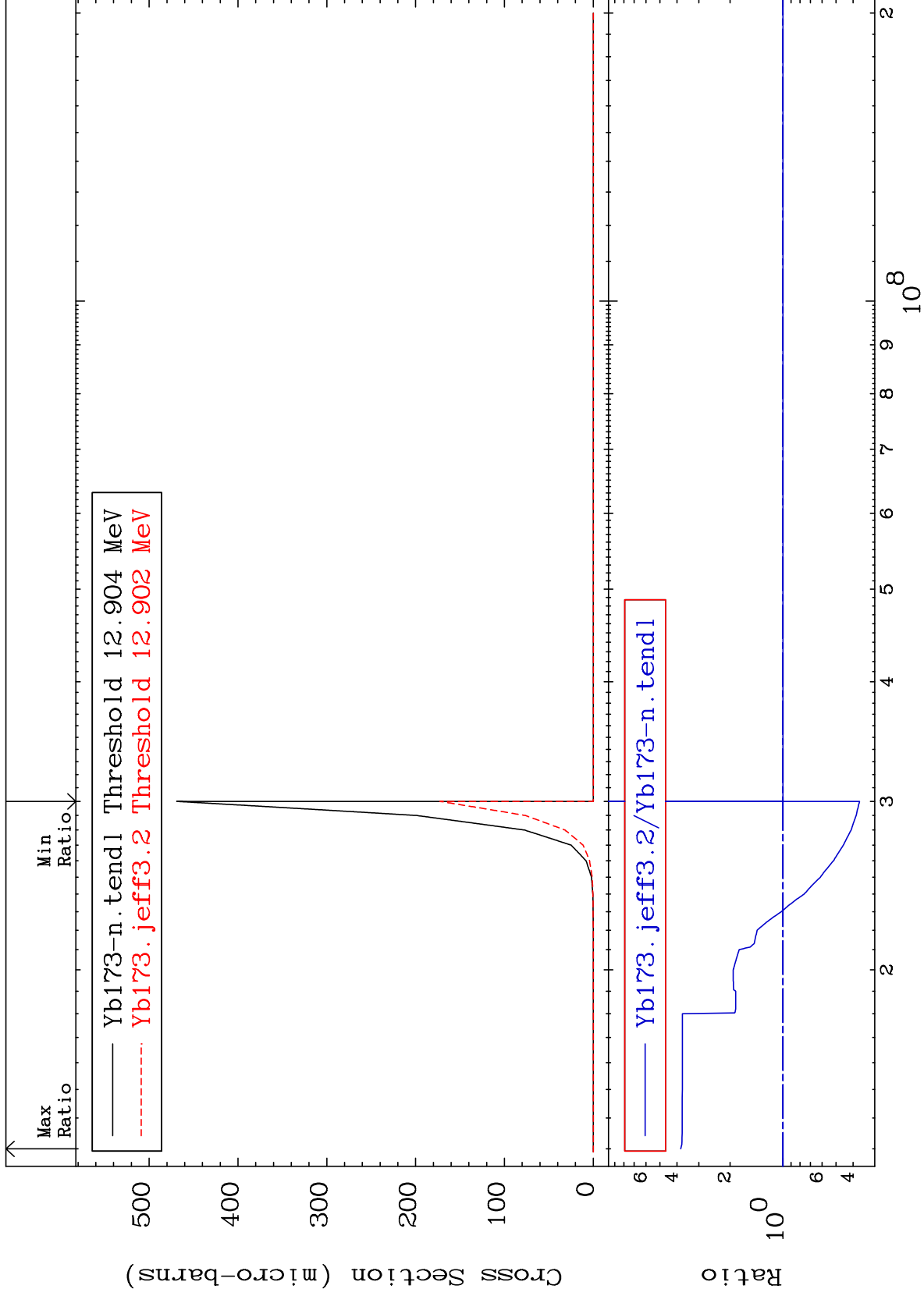
(n,2n) α
Cross Section
70-Yb-173
-59.67 To 63.97 %



MAT 7040

(n,3n) α
Cross Section

70-Yb-173
-63.20 To 280.3 %



10

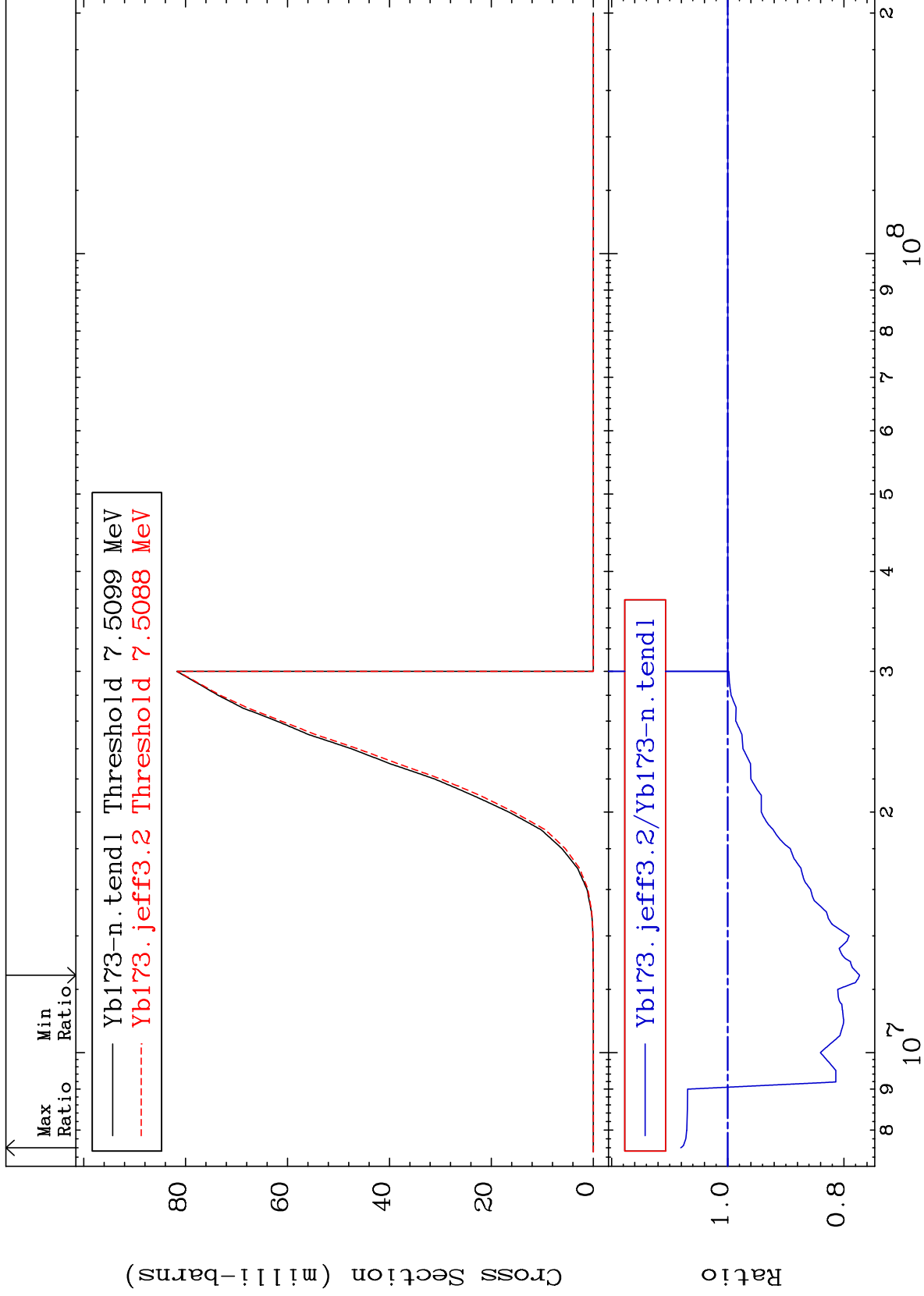
Incident Energy (eV)

70-Yb-173

MAT 7040

(n, n') p
Cross Section

70-Yb-173
-22.70 To 8.084 %



11

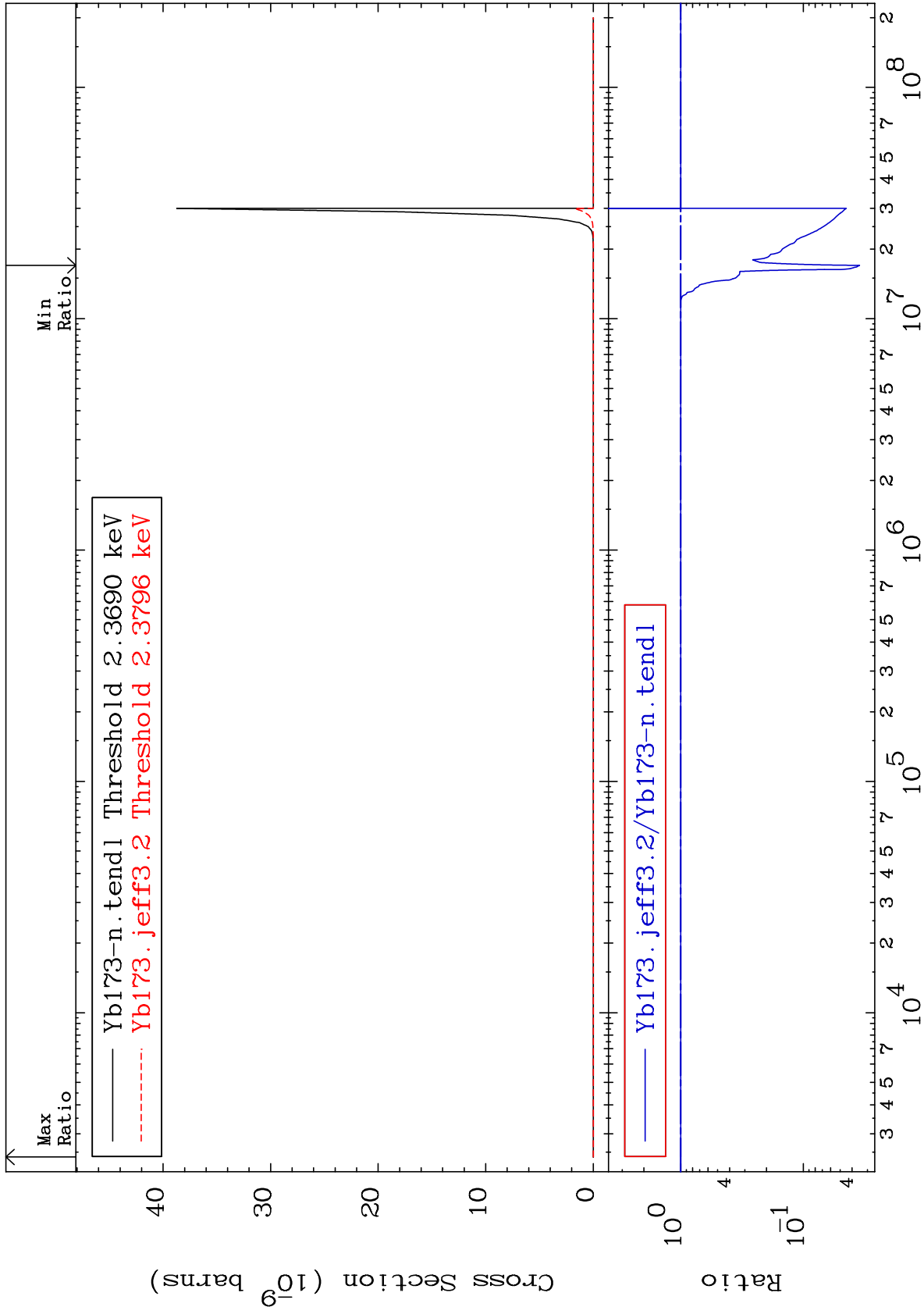
Incident Energy (eV)

70-Yb-173

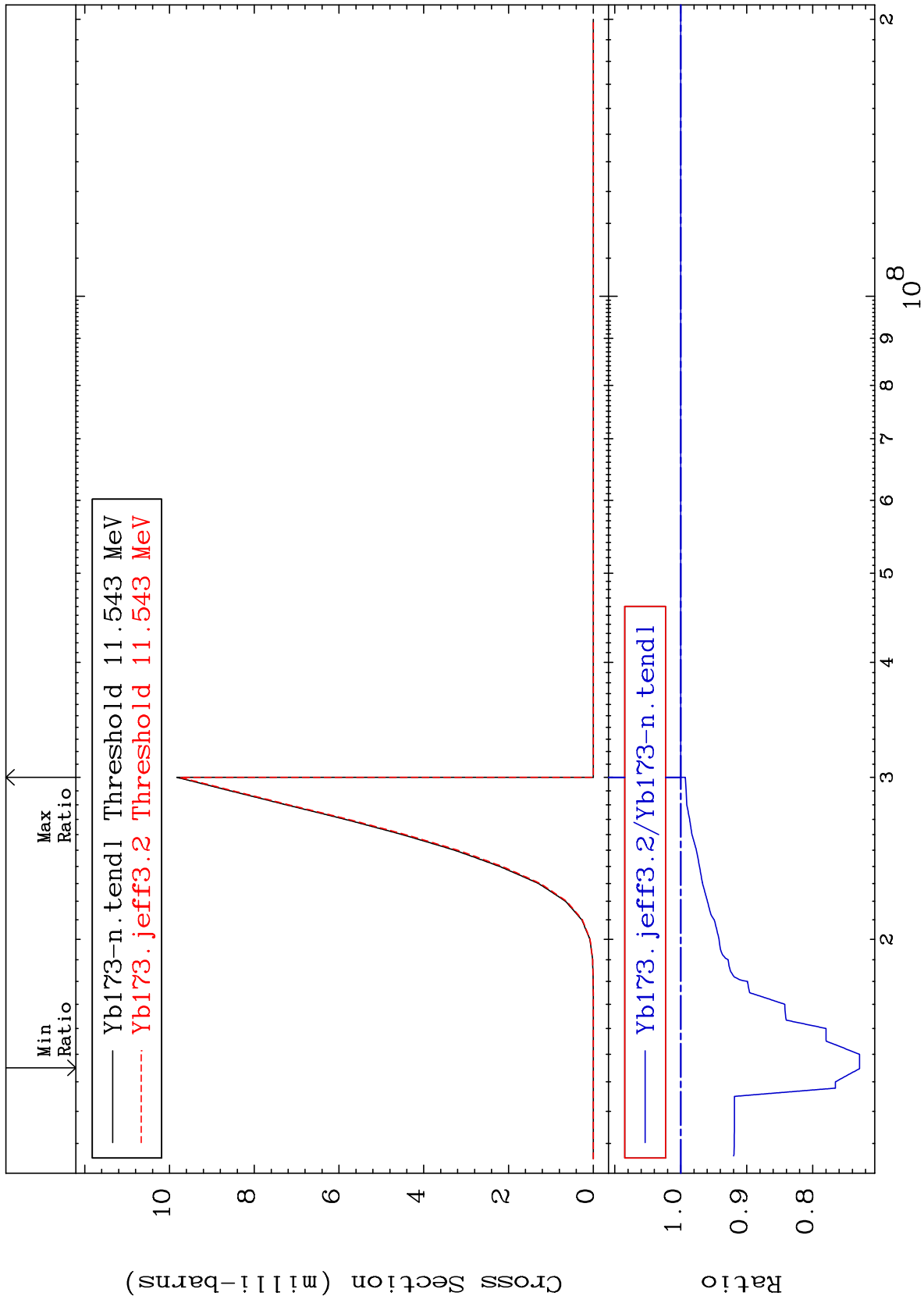
MAT 7040

(n, n') 2α
Cross Section

70-Yb-173
-96.52 To 0.000 %



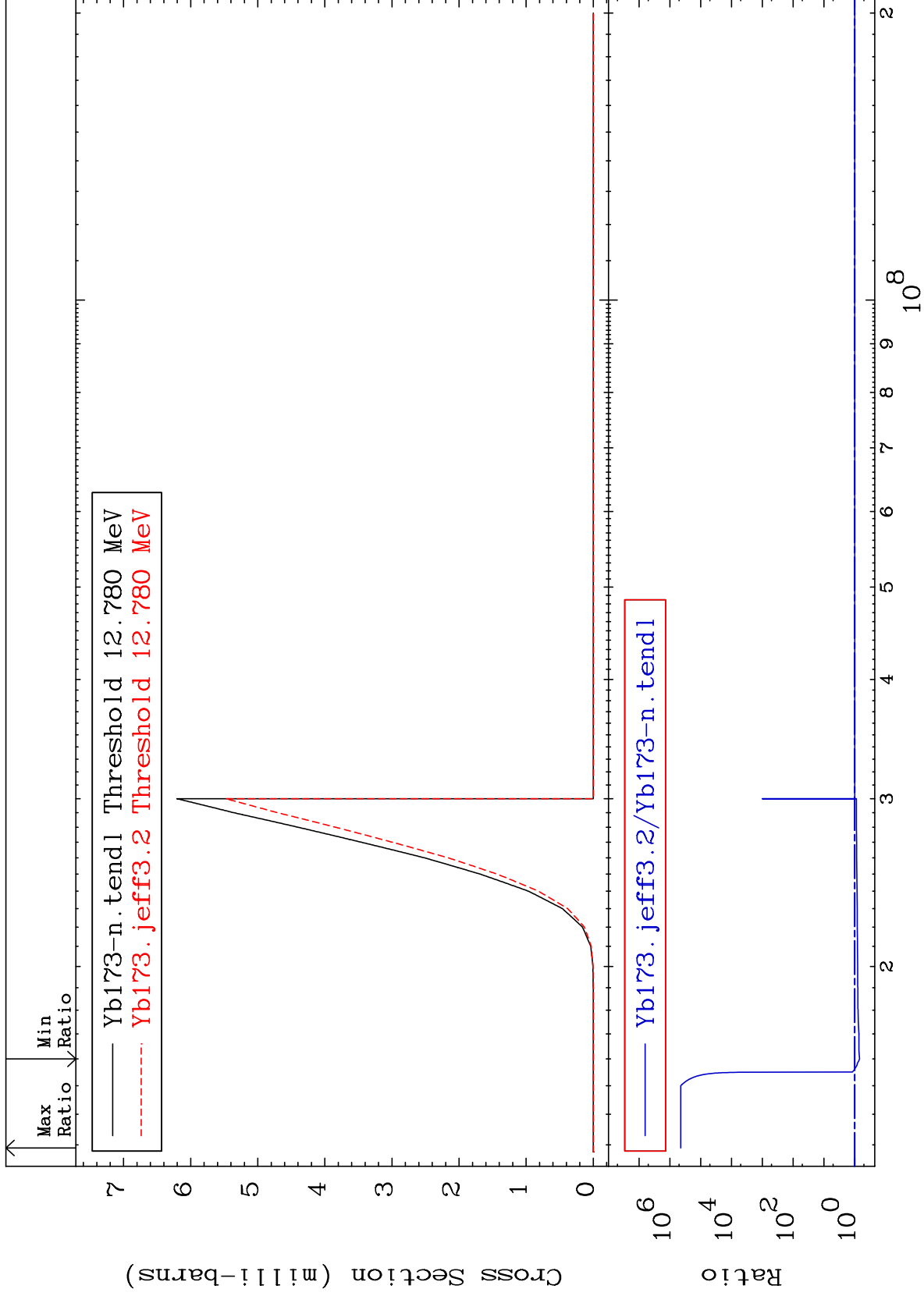
MAT 7040 (n, n') d $^{70}\text{Yb}-^{173}$
 Cross Section -27.08 To 0.000 %



MAT 7040

(n,n') t
Cross Section

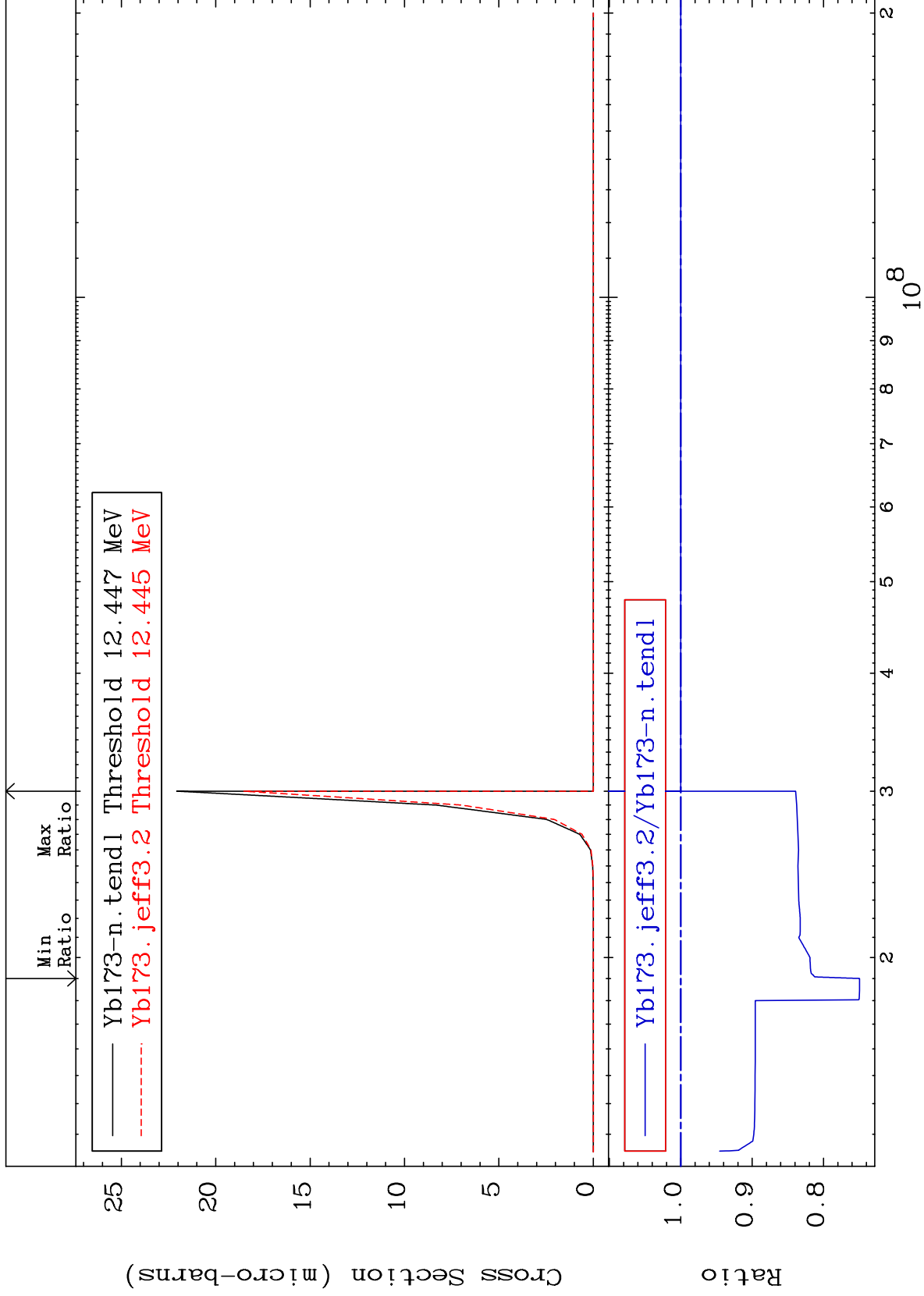
70-Yb-173
-30.43 To 9999. %



MAT 7040

(n, n') He-3
Cross Section

⁷⁰Yb-173
-25.04 To 0.000 %



MAT 7040

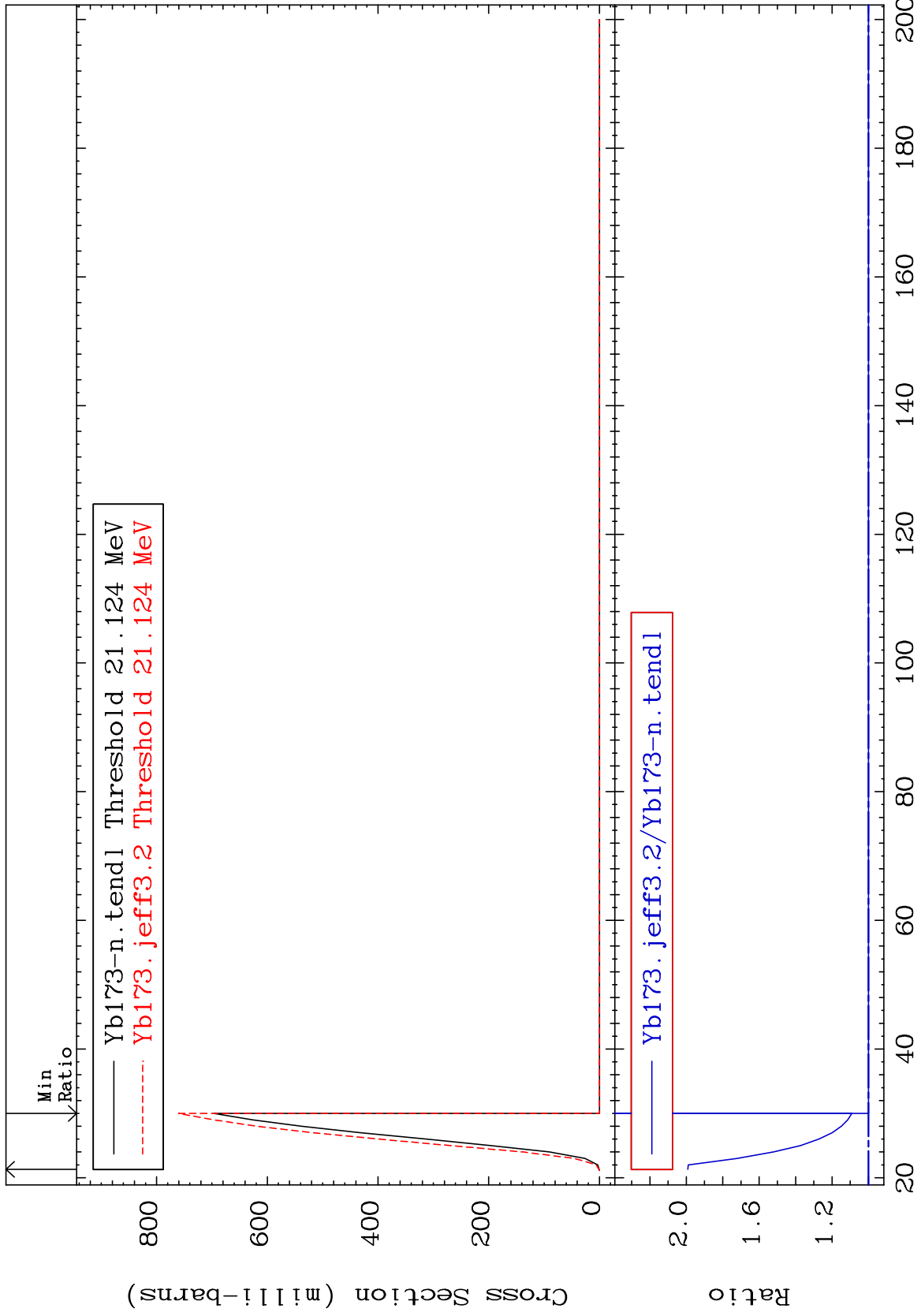
(n,4n)

⁷⁰Yb-173

Cross Section

0.000

To 99.15 %

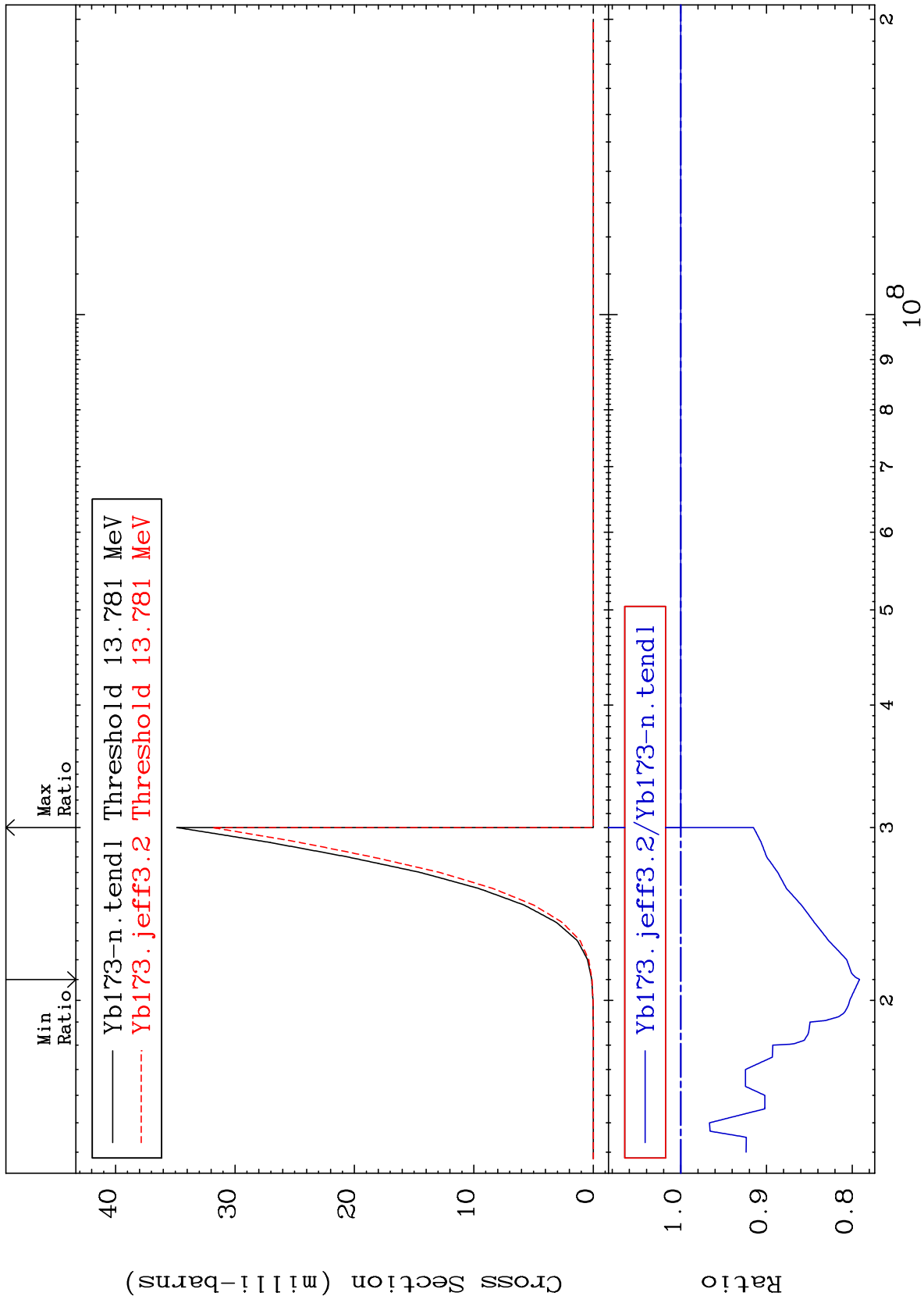


16

Incident Energy (MeV)

⁷⁰Yb-173

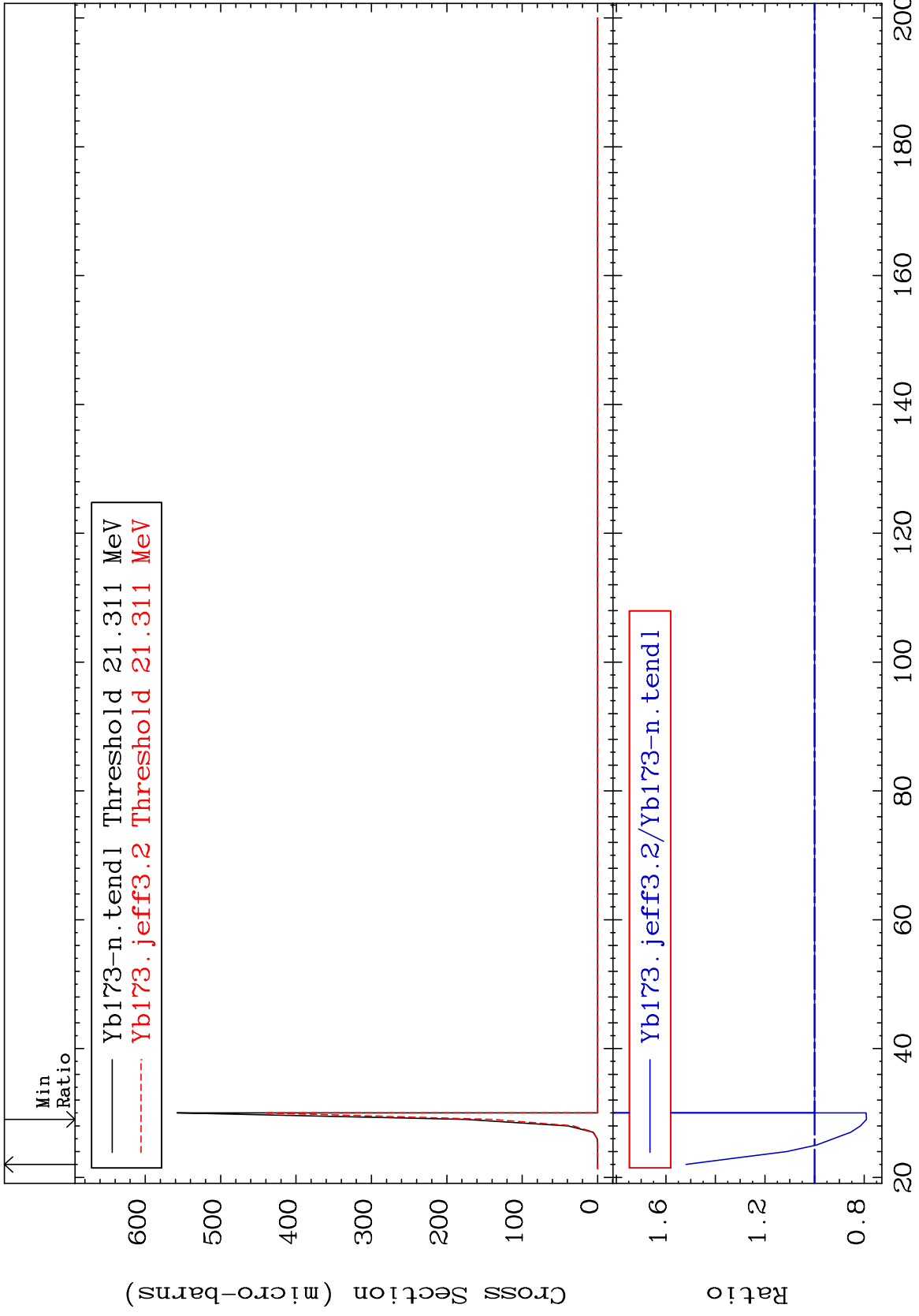
MAT 7040 $(n, 2n)$ p $^{70}\text{Yb}-173$
 Cross Section -20.86 To 0.000 %



MAT 7040

(n,3n) p
Cross Section

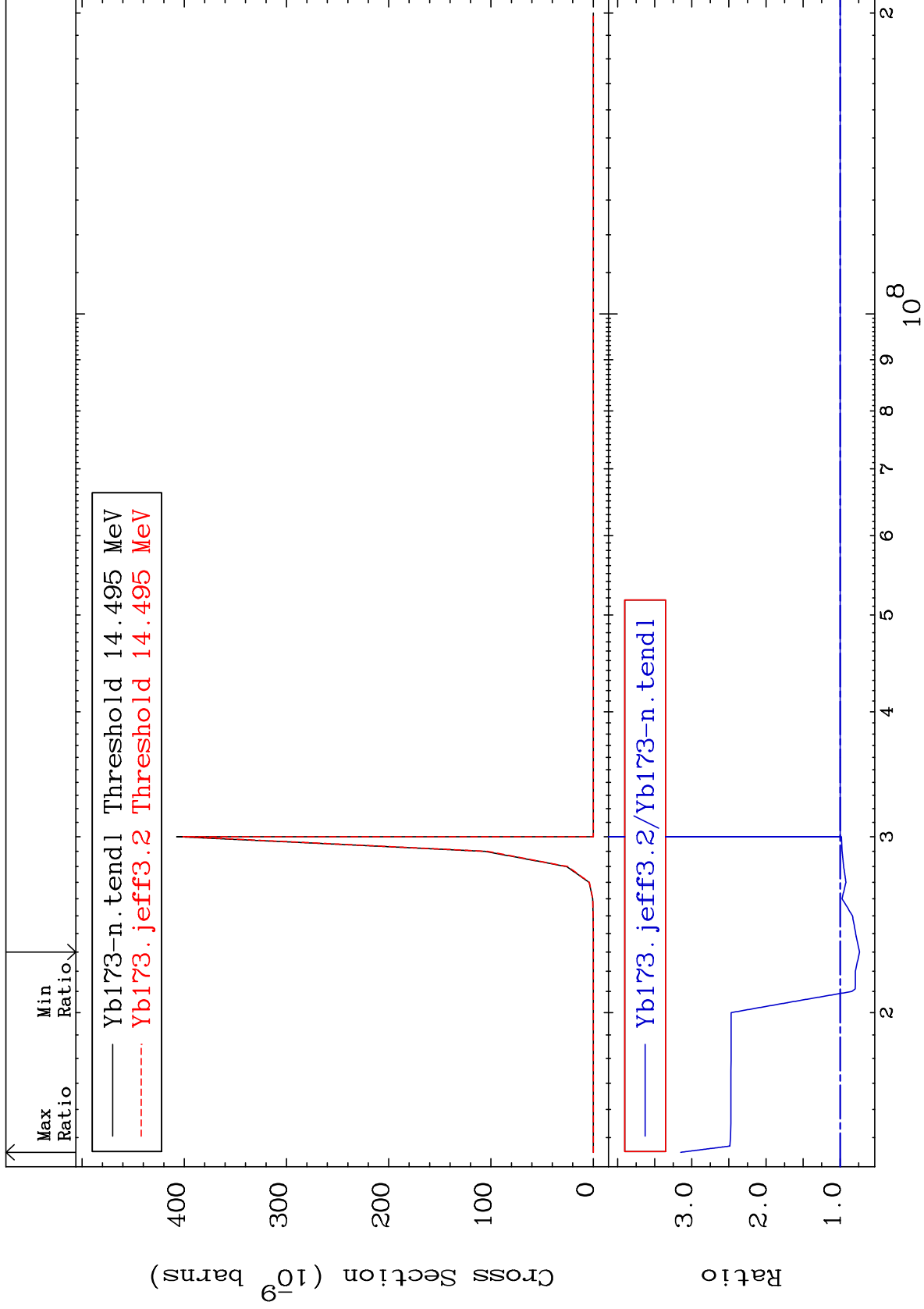
70-Yb-173
-20.91 To 51.89 %



MAT 7040

(n,2n) p
Cross Section

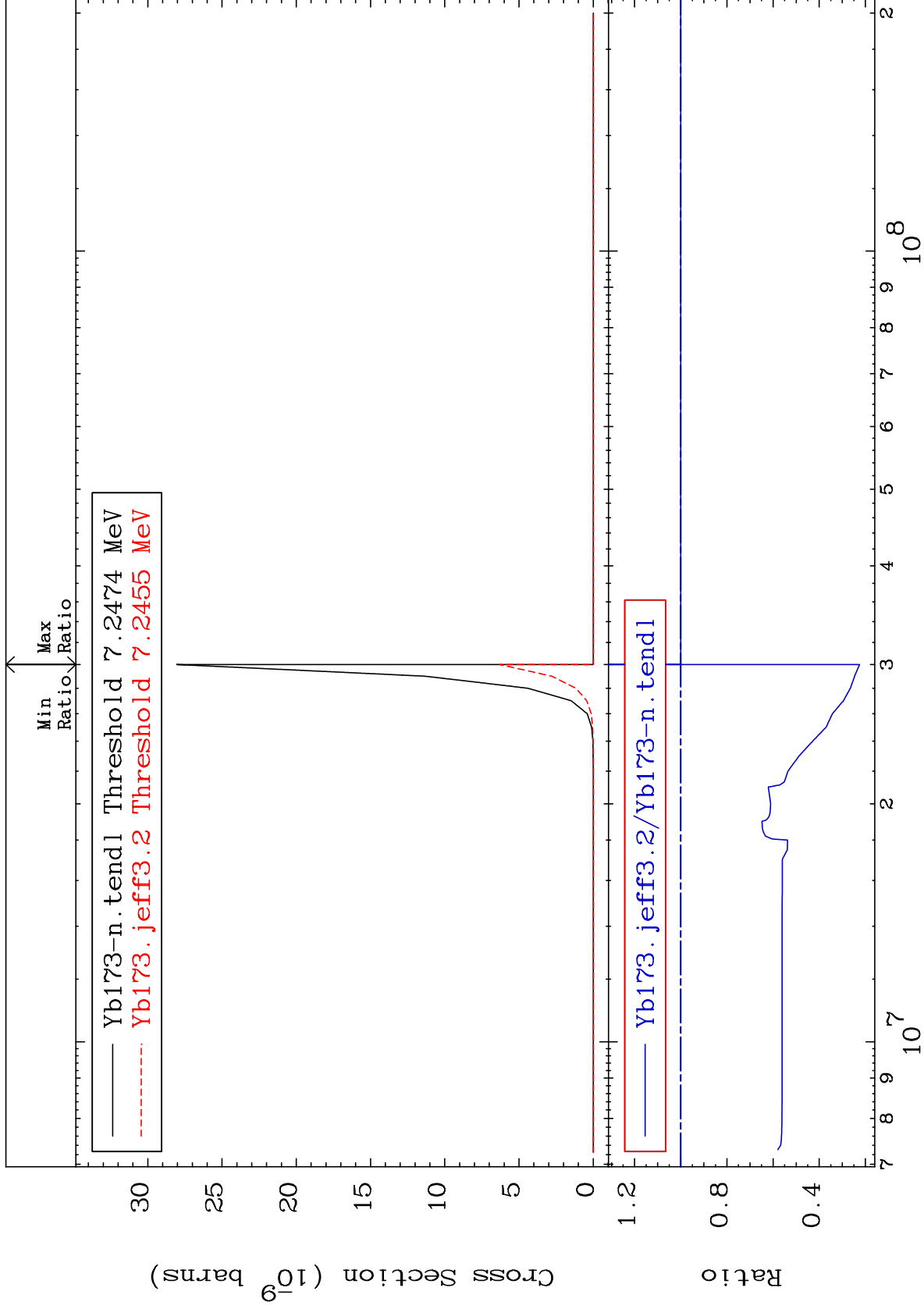
⁷⁰Yb-173
-26.02 To 214.9 %



MAT 7040

(n,n') p α
Cross Section

⁷⁰Yb-173
-77.46 To 0.000 %



20

Incident Energy (eV)

⁷⁰Yb-173

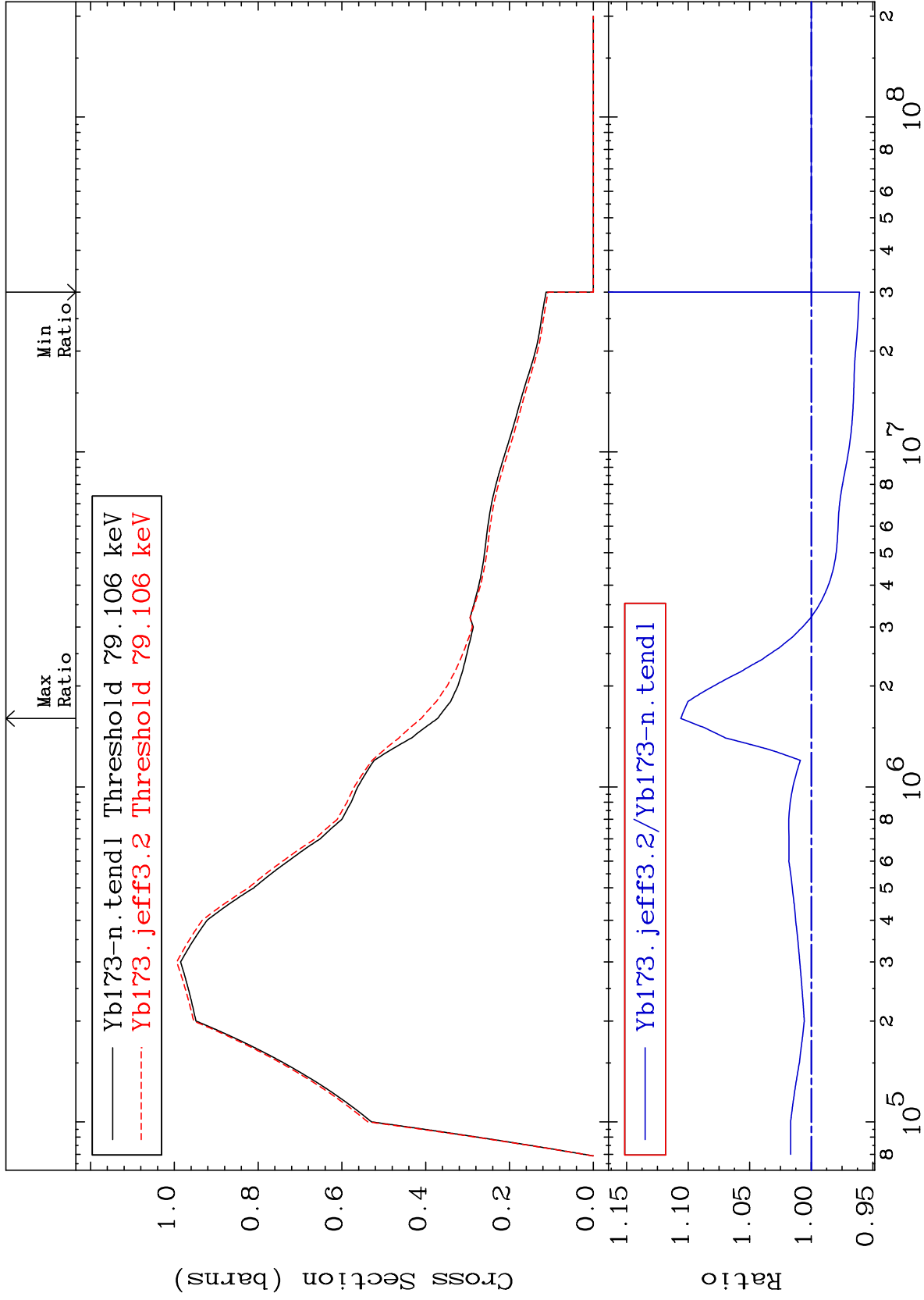
MAT 7040

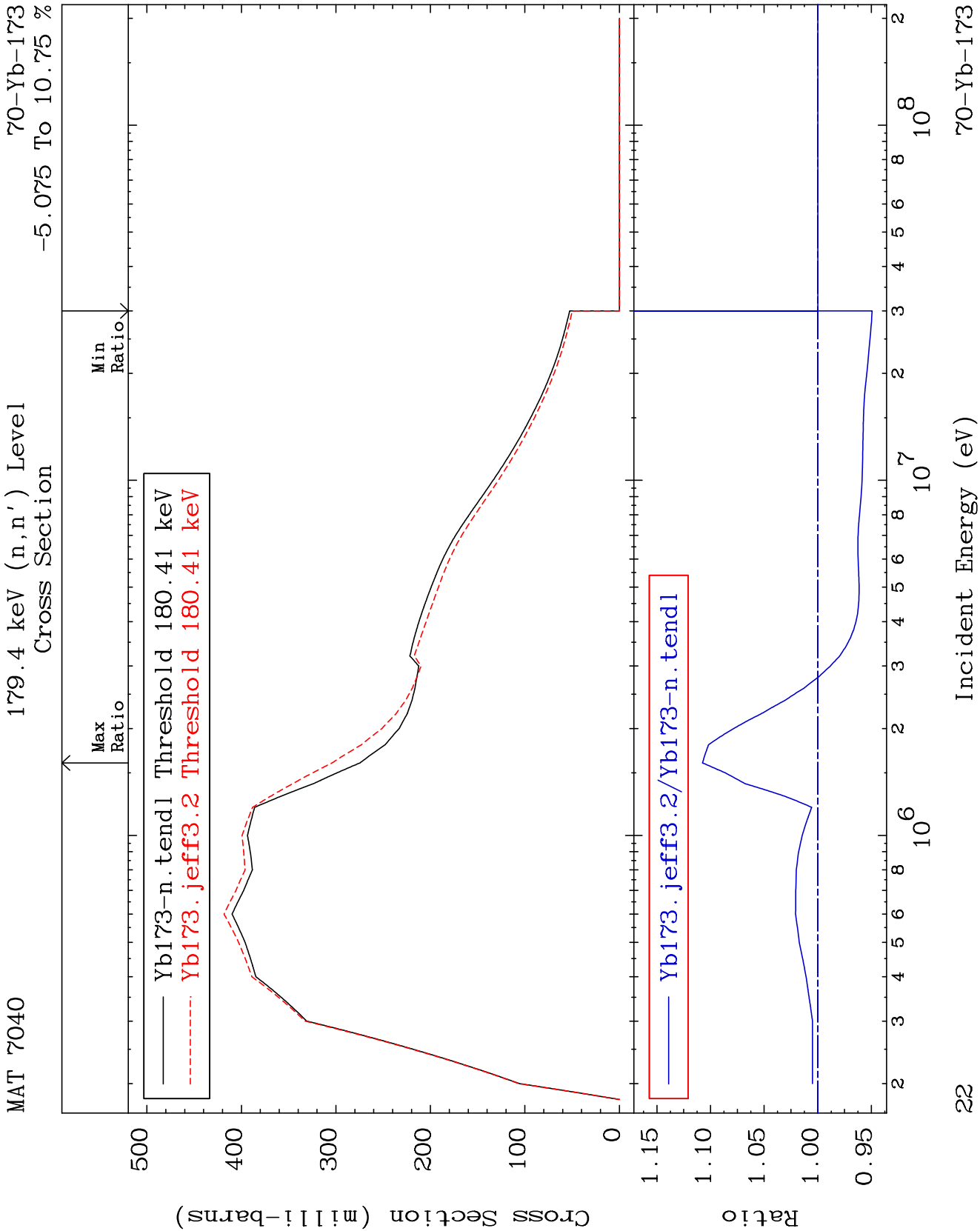
78.65 keV (n,n') Level

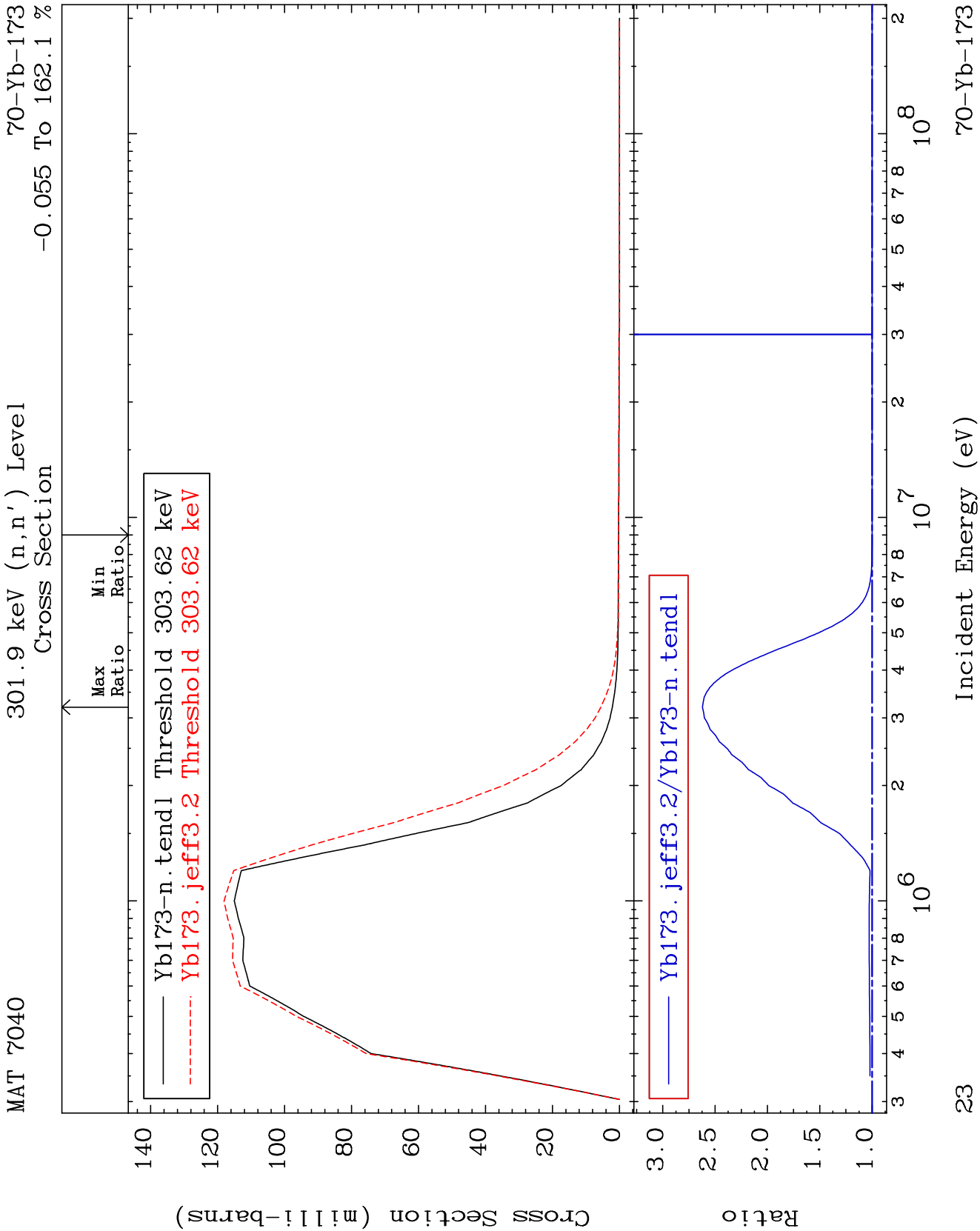
70-Yb-173

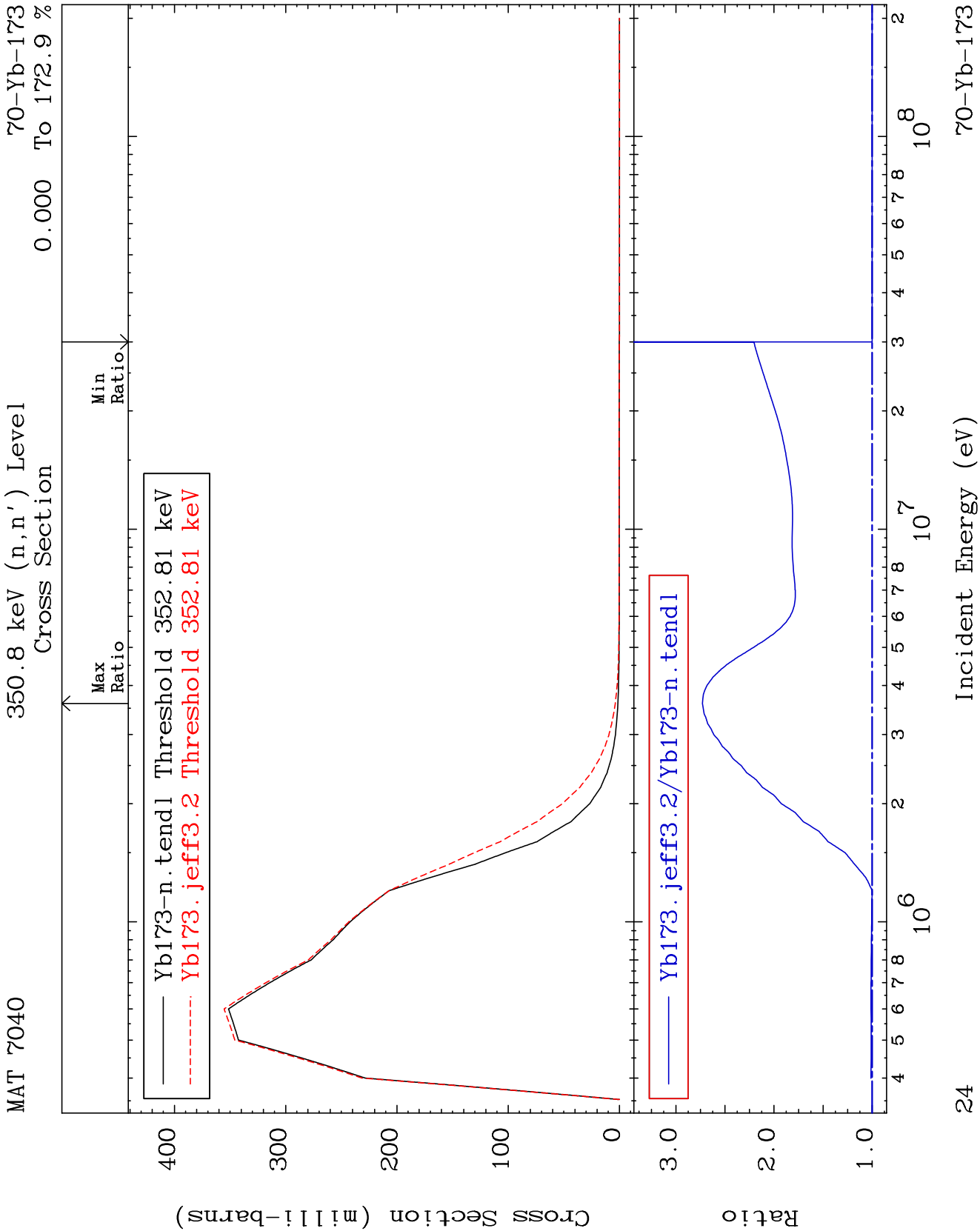
-3.920 To 10.60 %

Cross Section

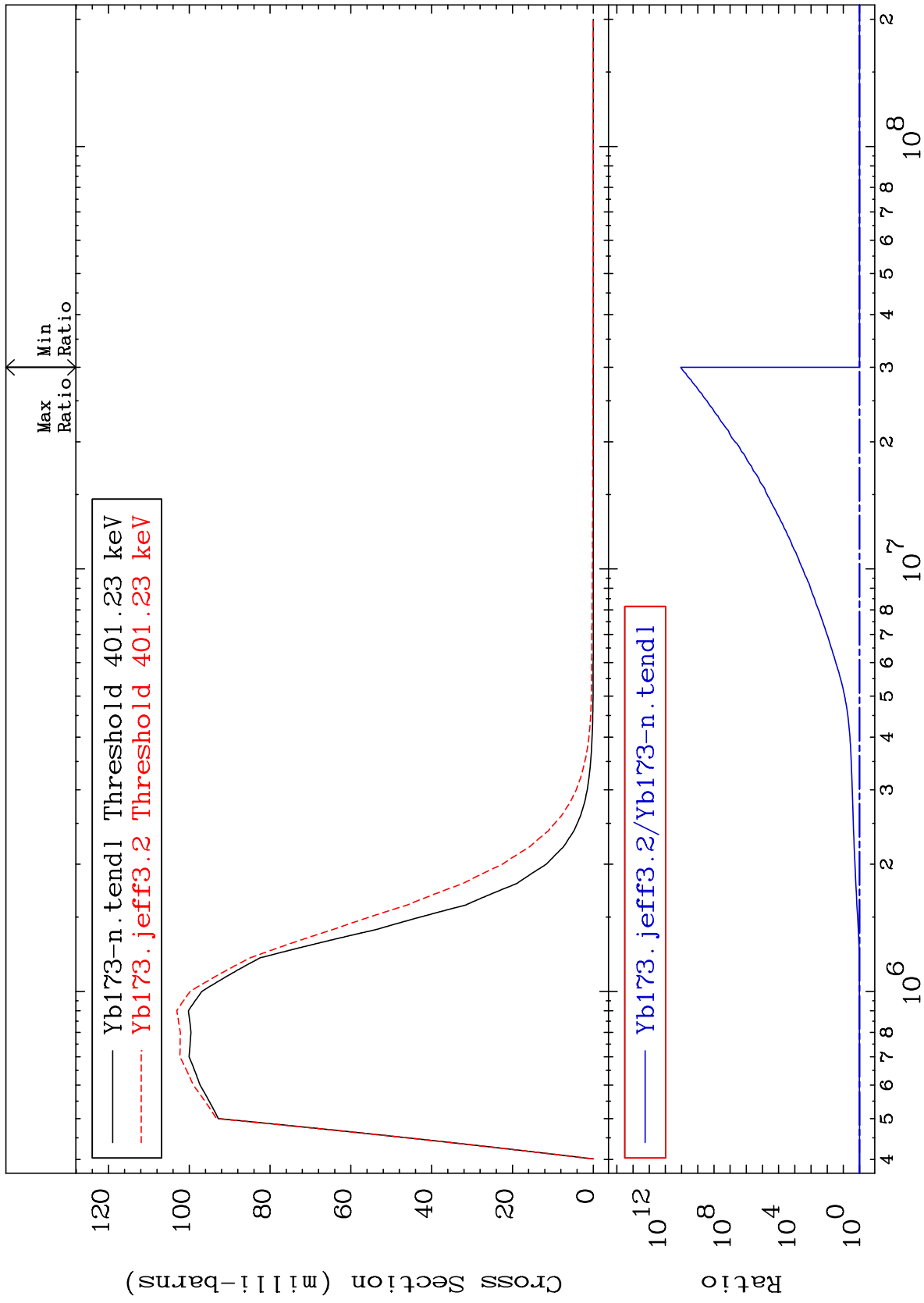








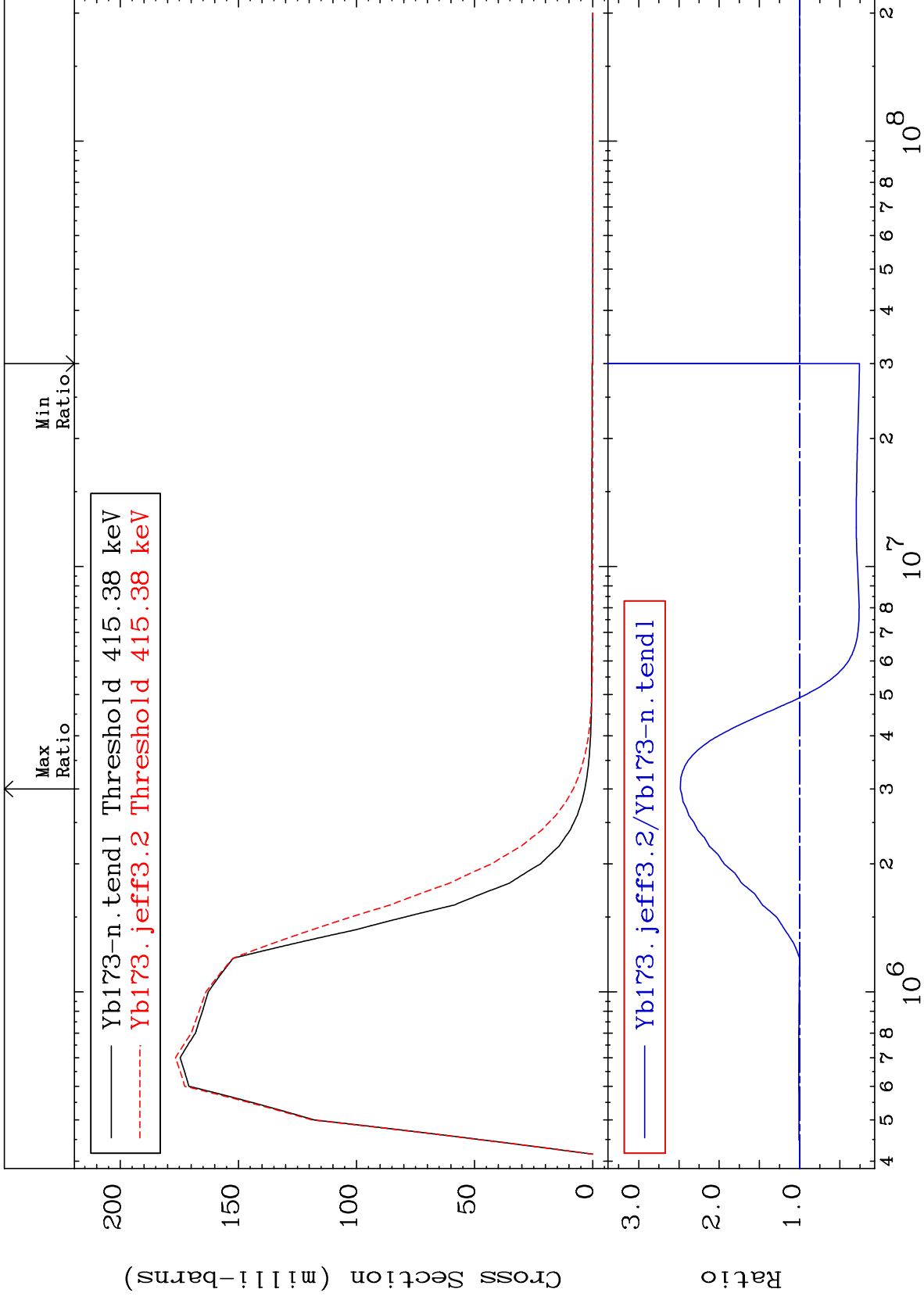
MAT 7040 398.9 keV (n,n') Level 70-Yb-173
 Cross Section To 9999. %



MAT 7040

413.0 keV (n,n') Level
Cross Section

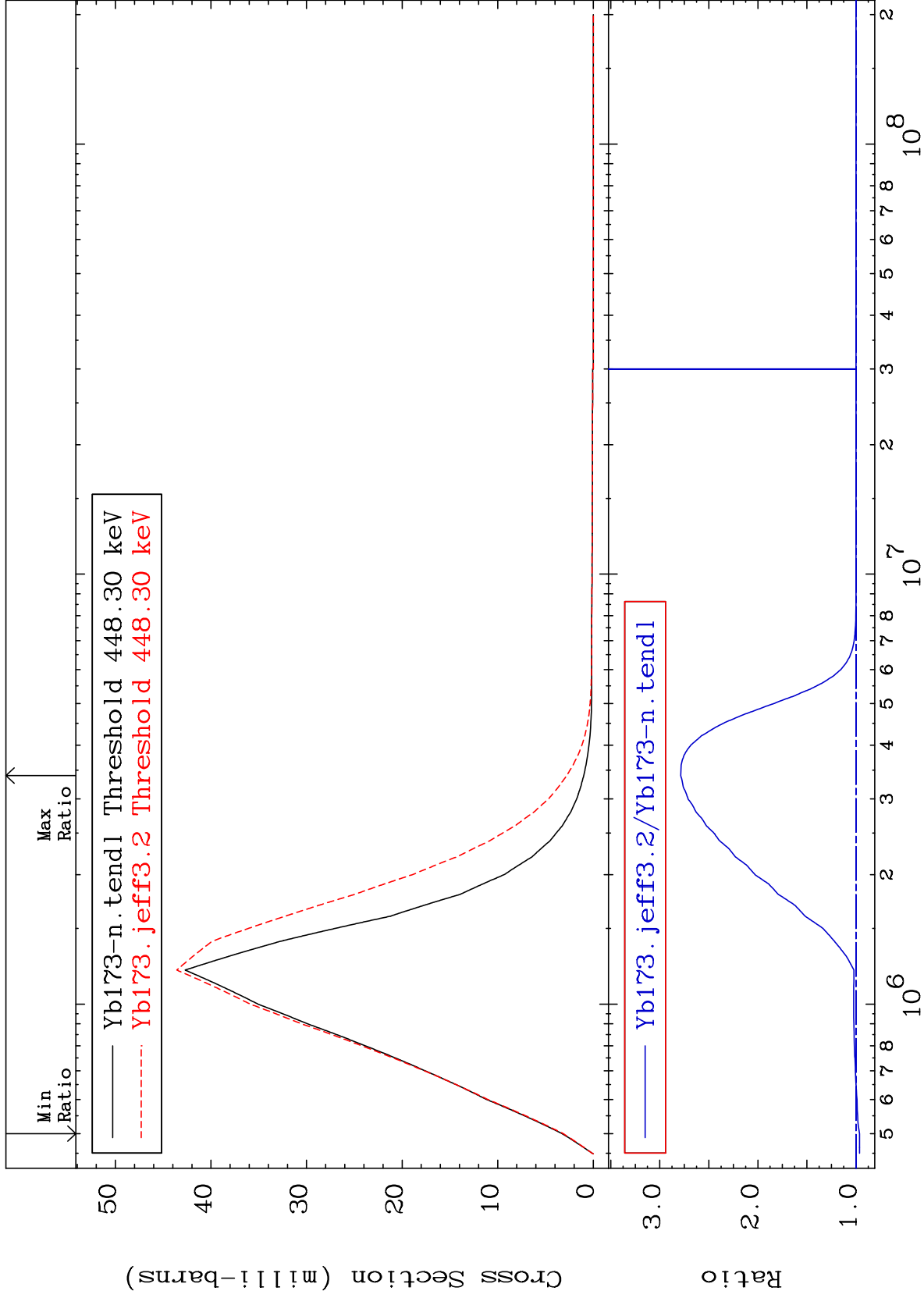
70-Yb-173
-74.29 To 148.3 %

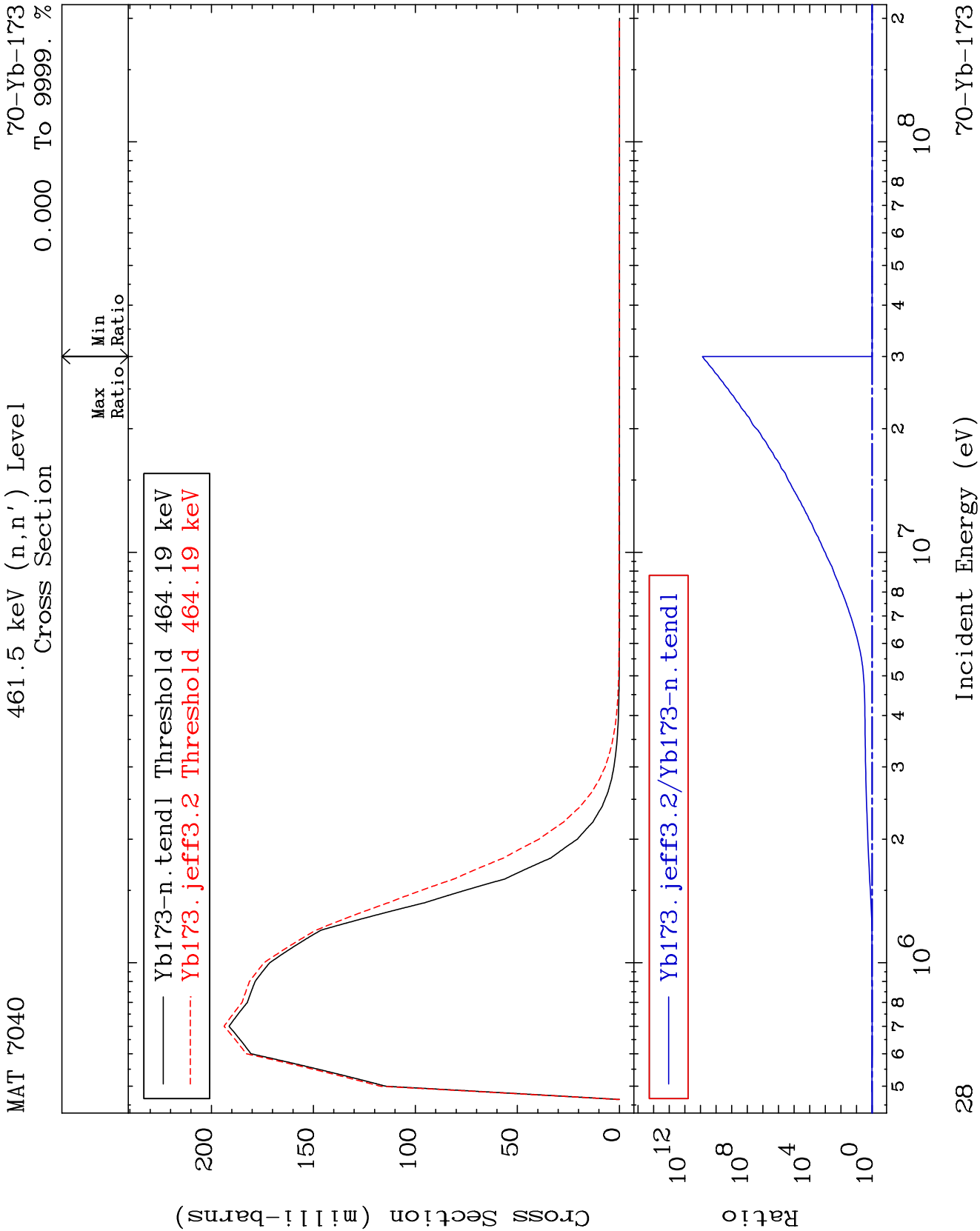


MAT 7040

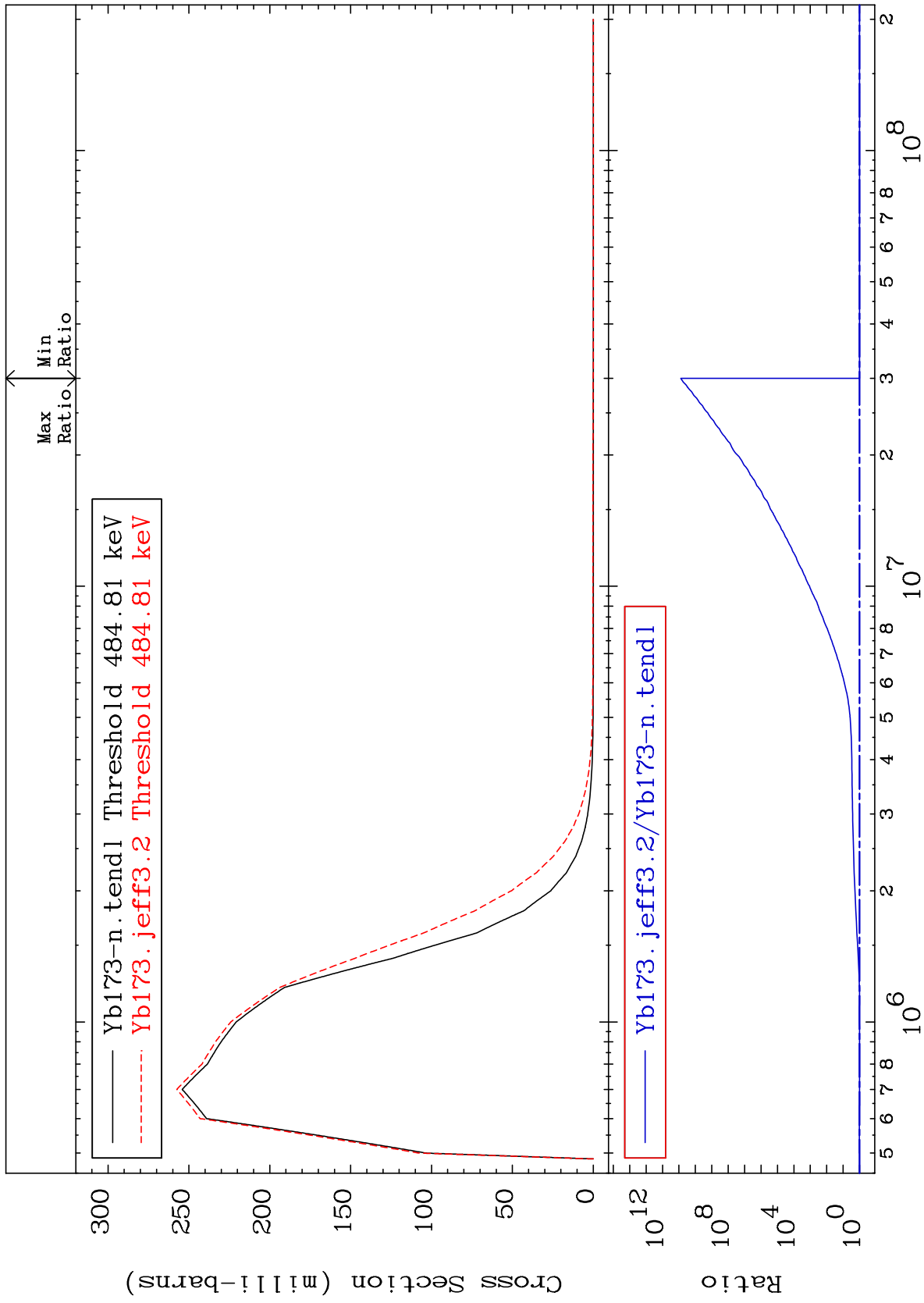
445.7 keV (n,n') Level
Cross Section

70-Yb-173
-3.690 To 178.6 %





MAT 7040 482.0 keV (n,n') Level 70-Yb-173
 Cross Section To 9999. %



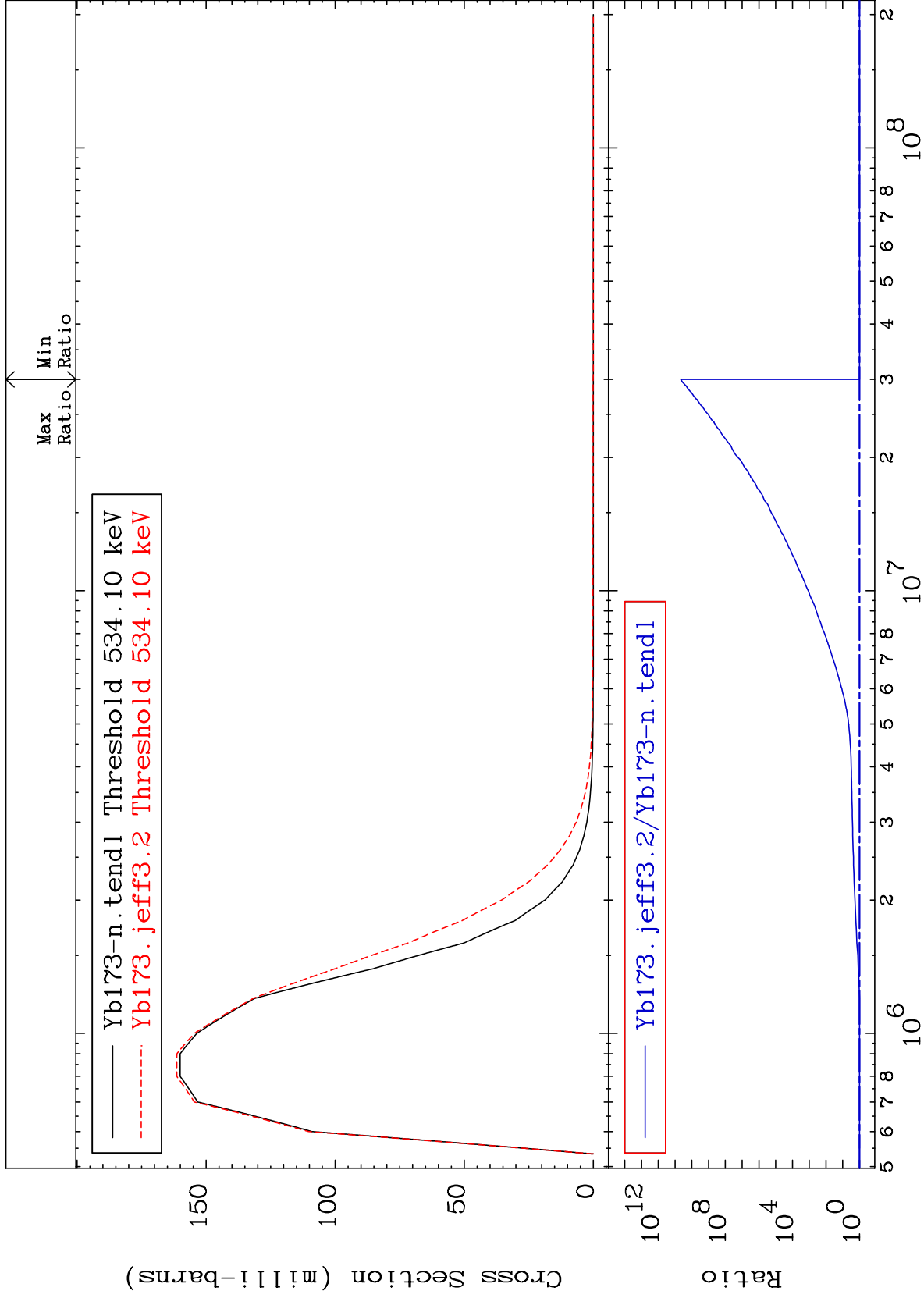
MAT 7040

531.0 keV (n,n') Level

70-Yb-173

Cross Section

0.000 To 9999. %



30

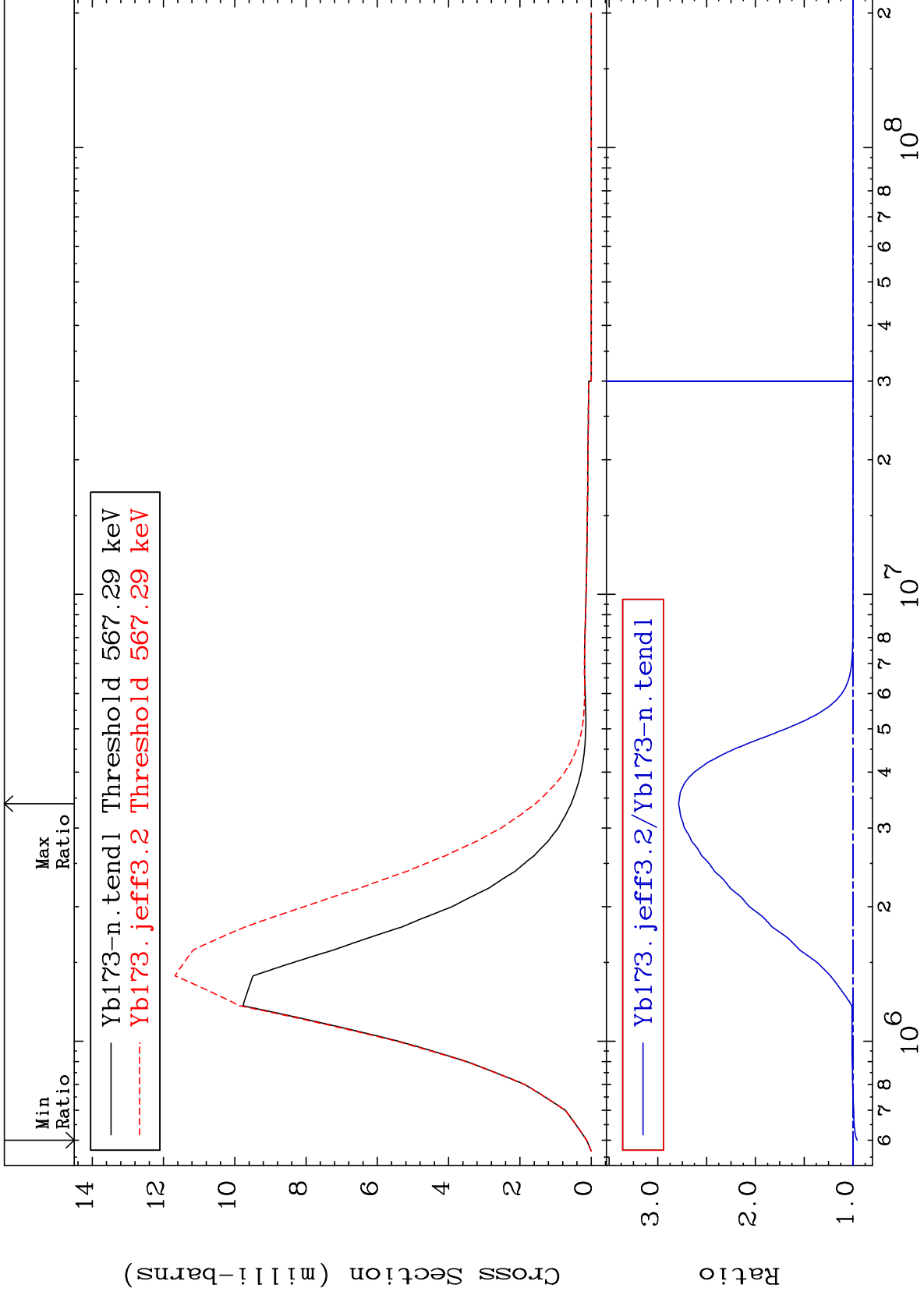
Incident Energy (eV)

70-Yb-173

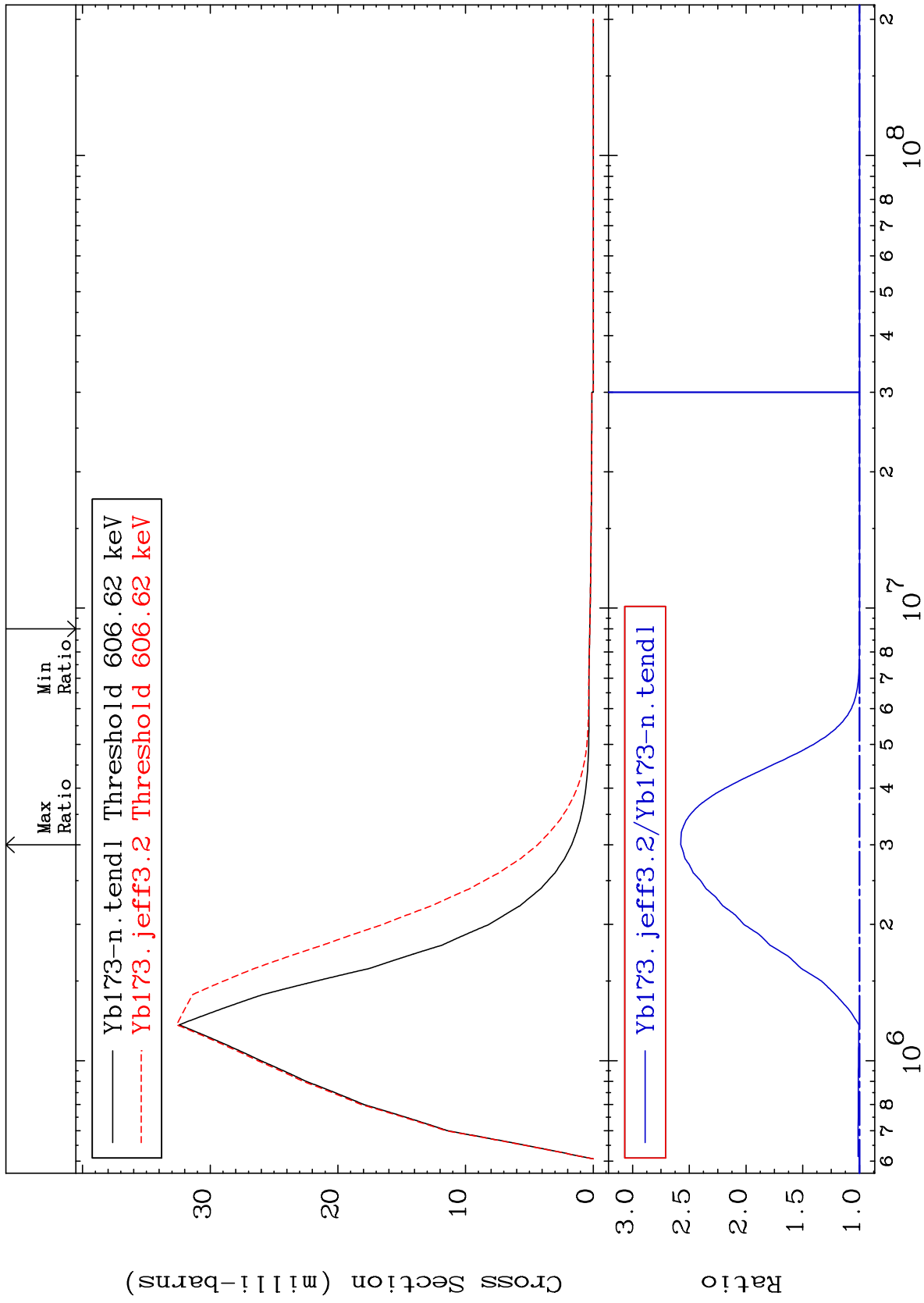
MAT 7040

564.0 keV (n,n') Level
Cross Section

70-Yb-173
-4.437 To 178.7 %



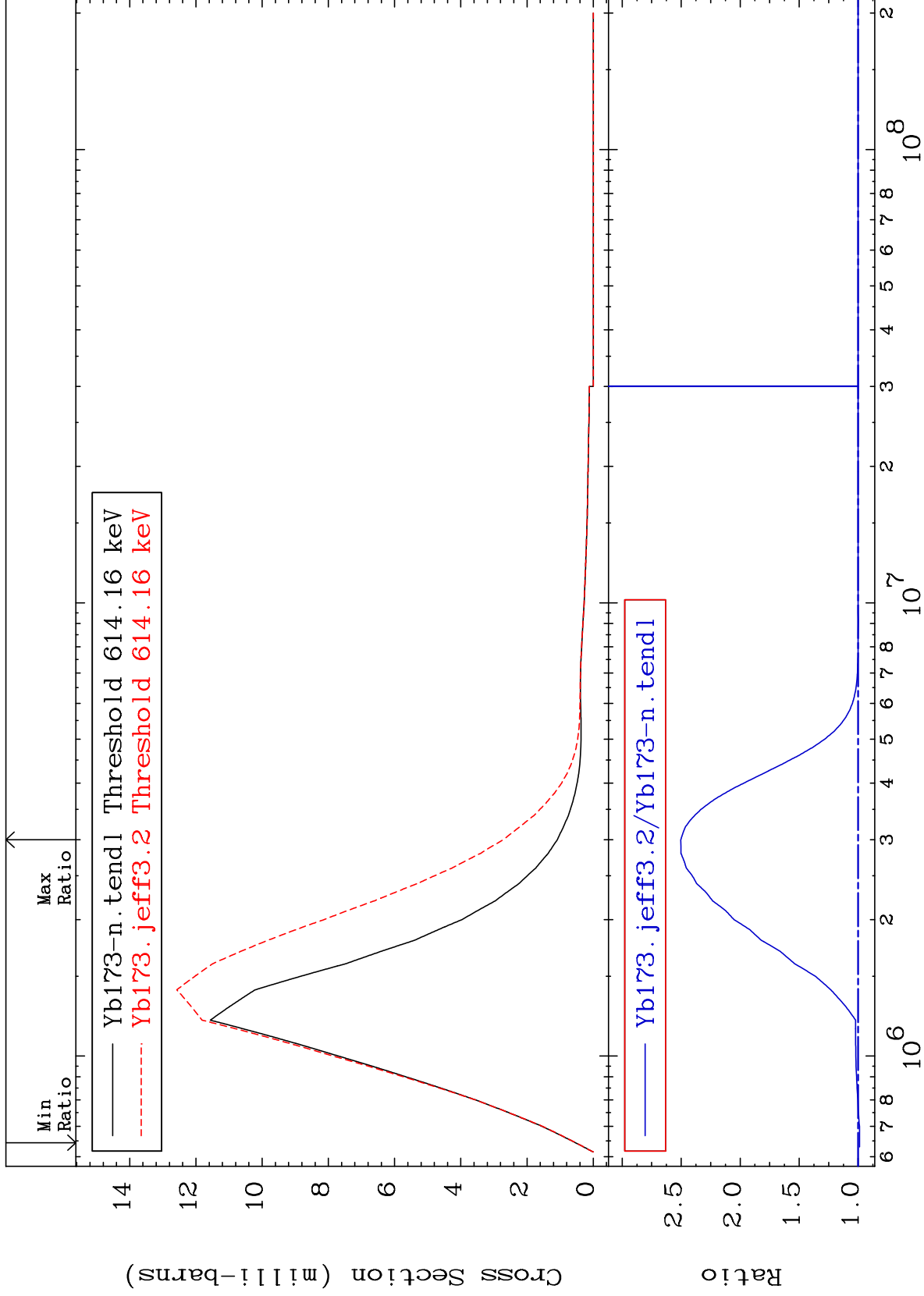
MAT 7040 70-Yb-173
 603.1 keV (n,n') Level -0.040 To 157.5 %
 Cross Section



MAT 7040

610.6 keV (n,n') Level
Cross Section

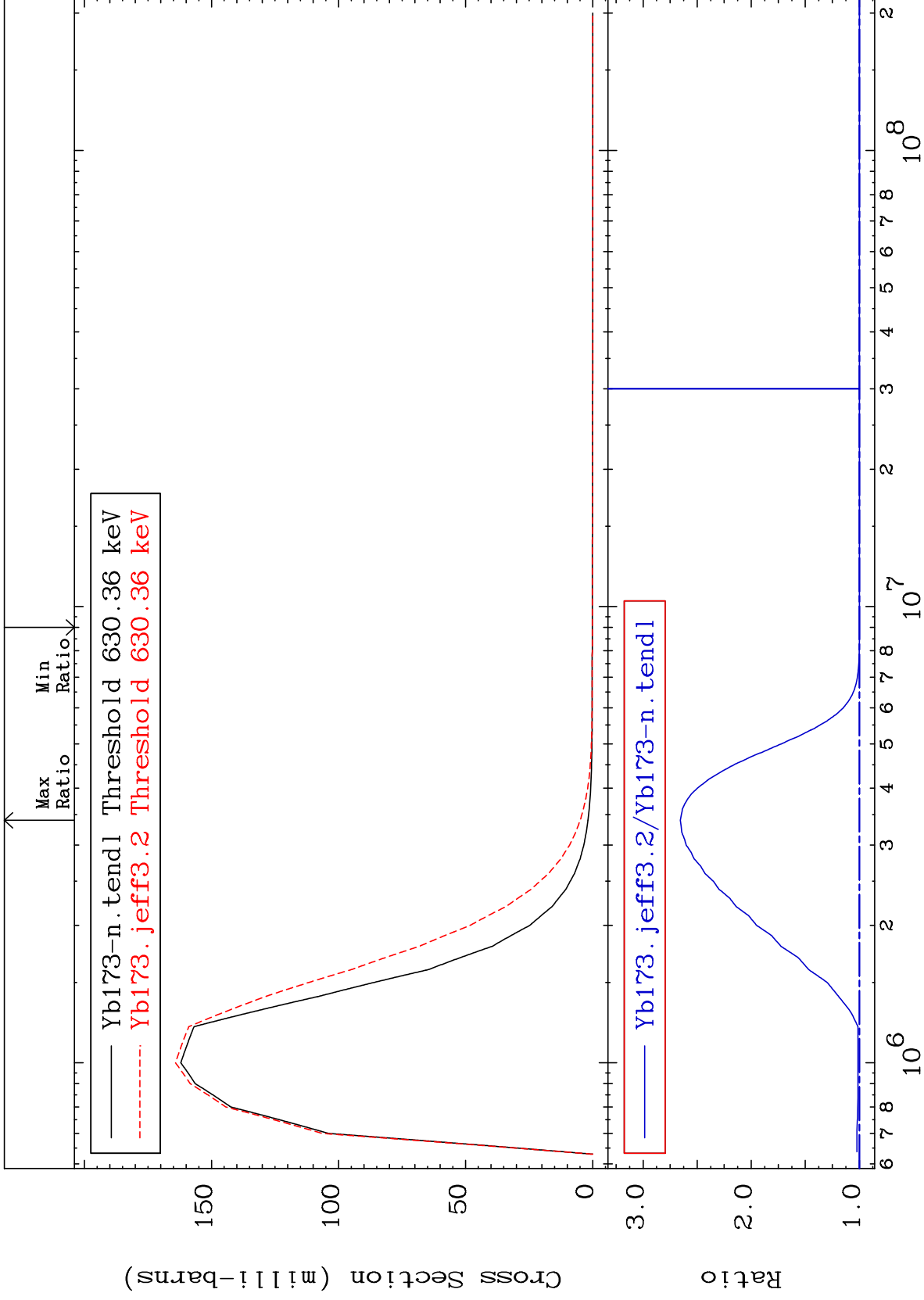
70-Yb-173
-1.177 To 150.3 %



MAT 7040

626.7 keV (n,n') Level
Cross Section

70-Yb-173
-0.085 To 165.5 %

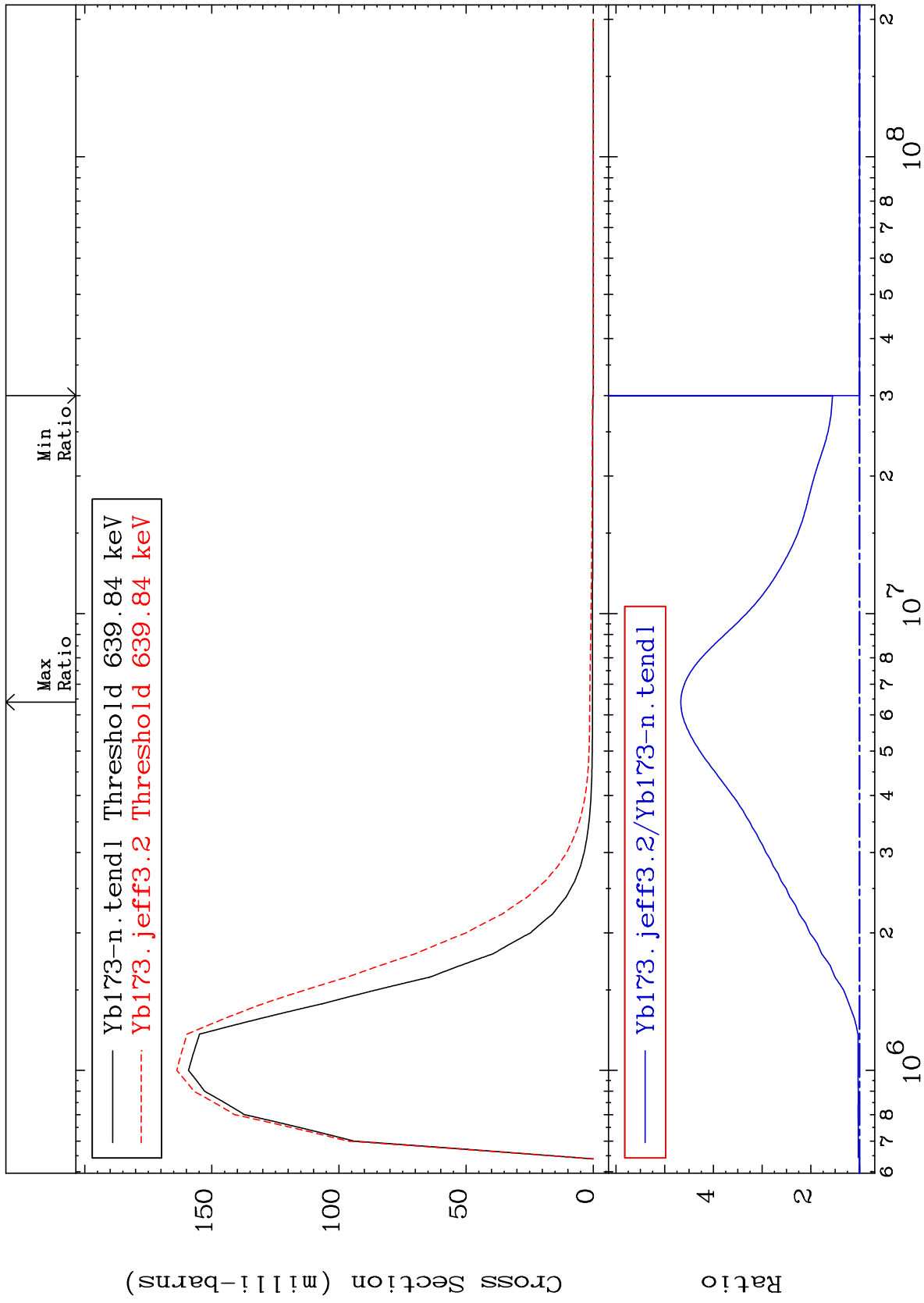


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Incident Energy (eV)

70-Yb-173

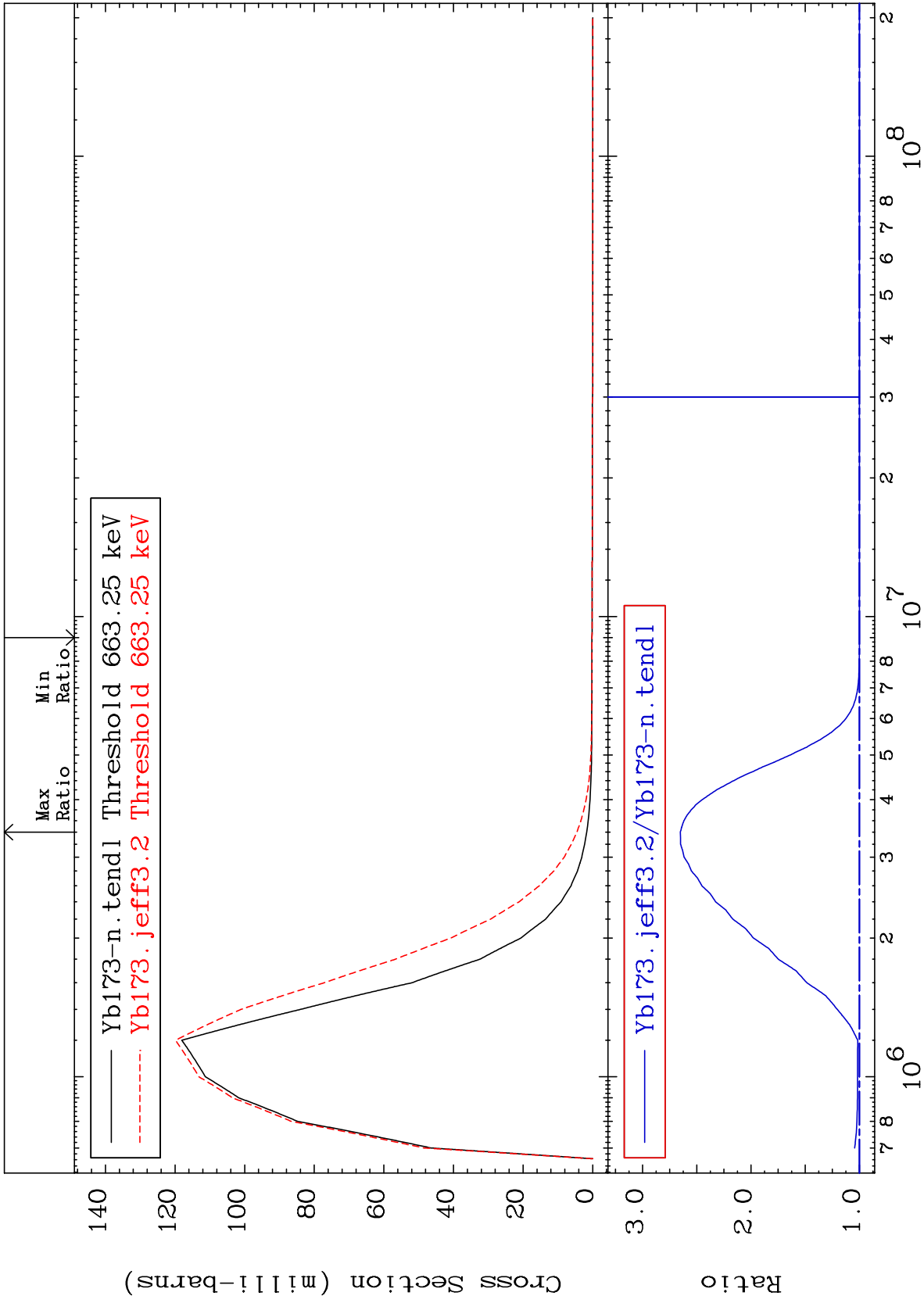
MAT 7040 636.1 keV (n,n') Level 70-Yb-173
 Cross Section 0.000 To 367.2 %



MAT 7040

659.4 keV (n,n') Level
Cross Section

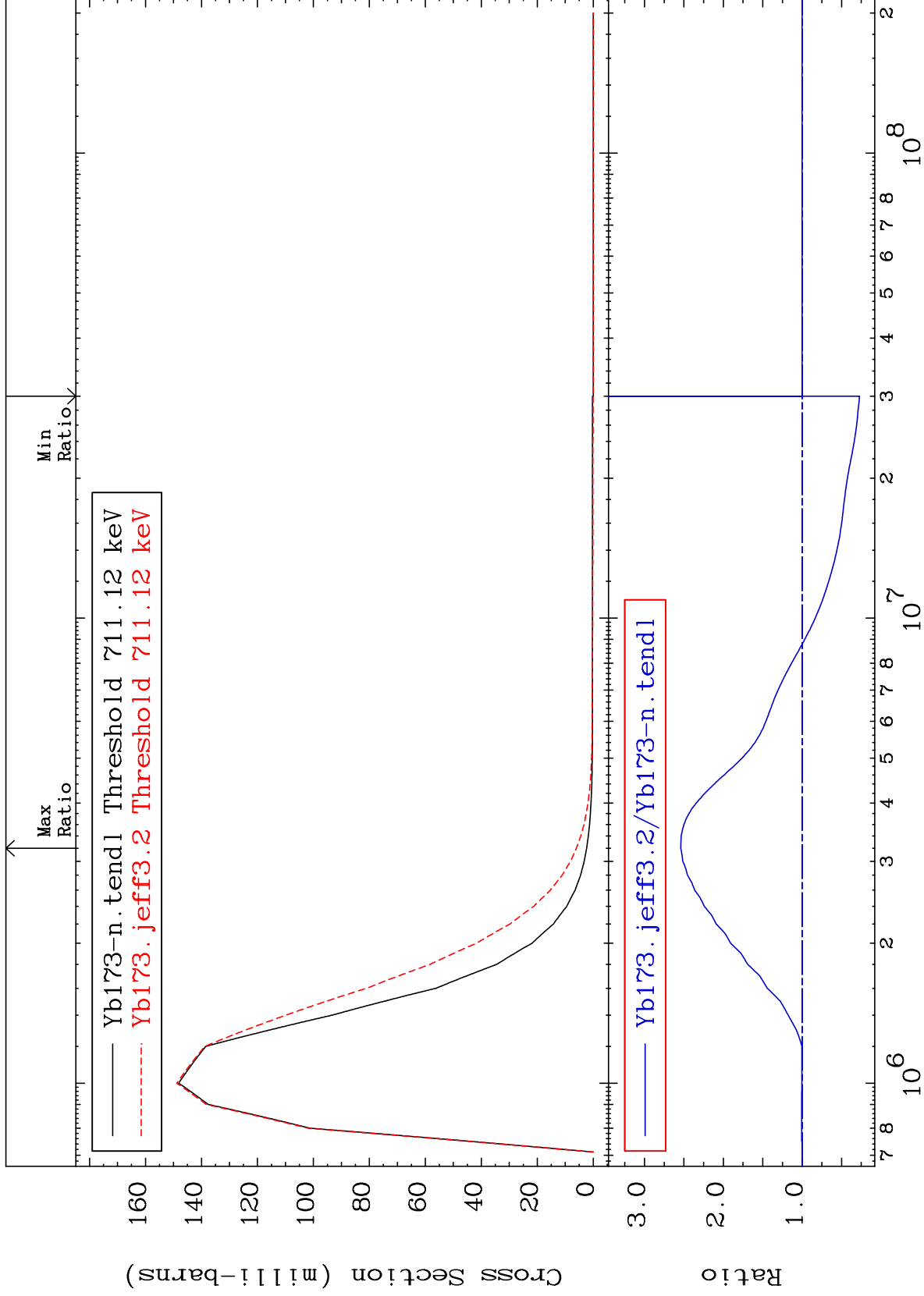
70-Yb-173
-0.069 To 165.1 %



MAT 7040

707.0 keV (n,n') Level
Cross Section

70-Yb-173
-72.78 To 154.0 %



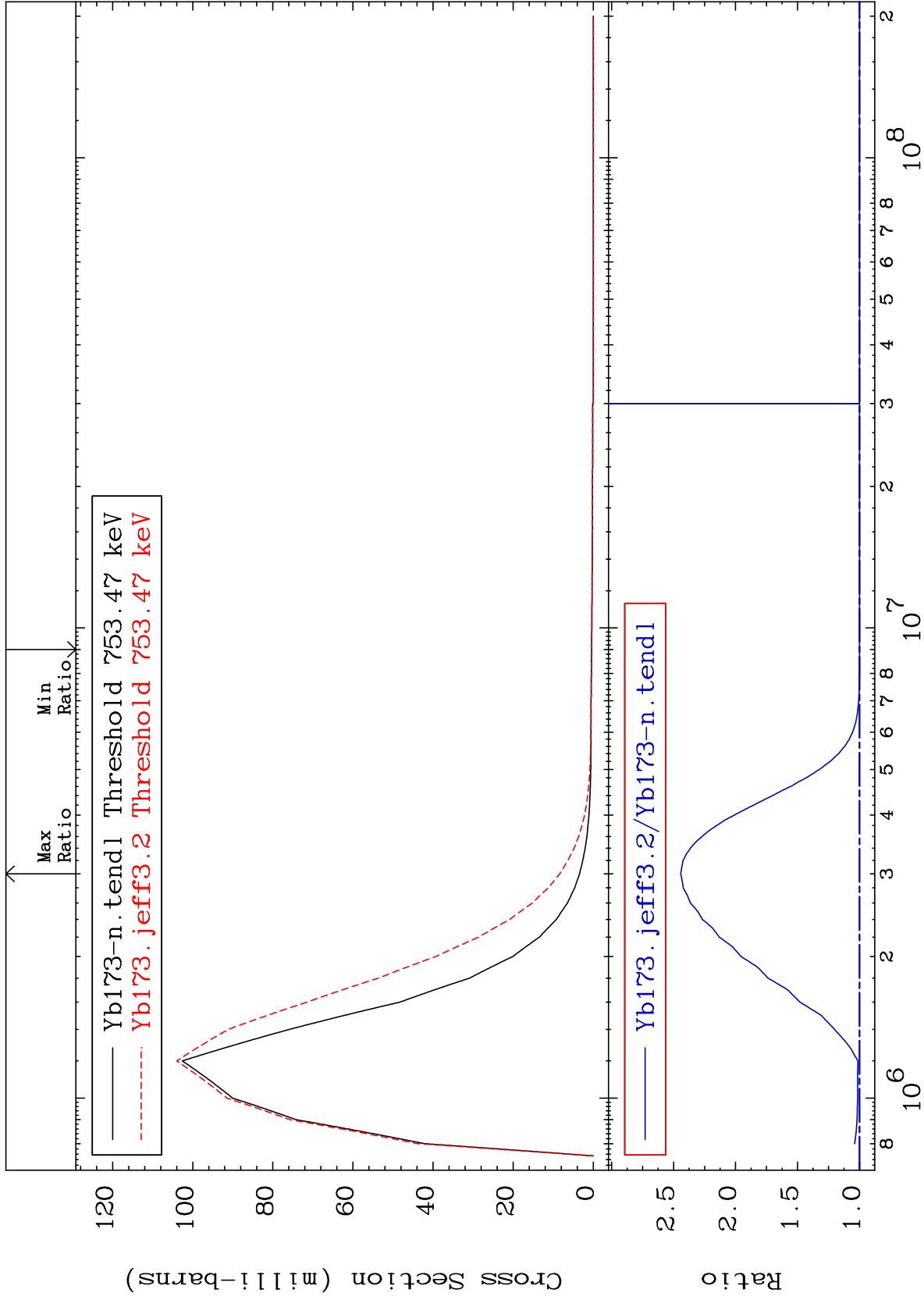
MAT 7040

749.1 keV (n,n') Level

⁷⁰Yb-173

-0.032 To 144.2 %

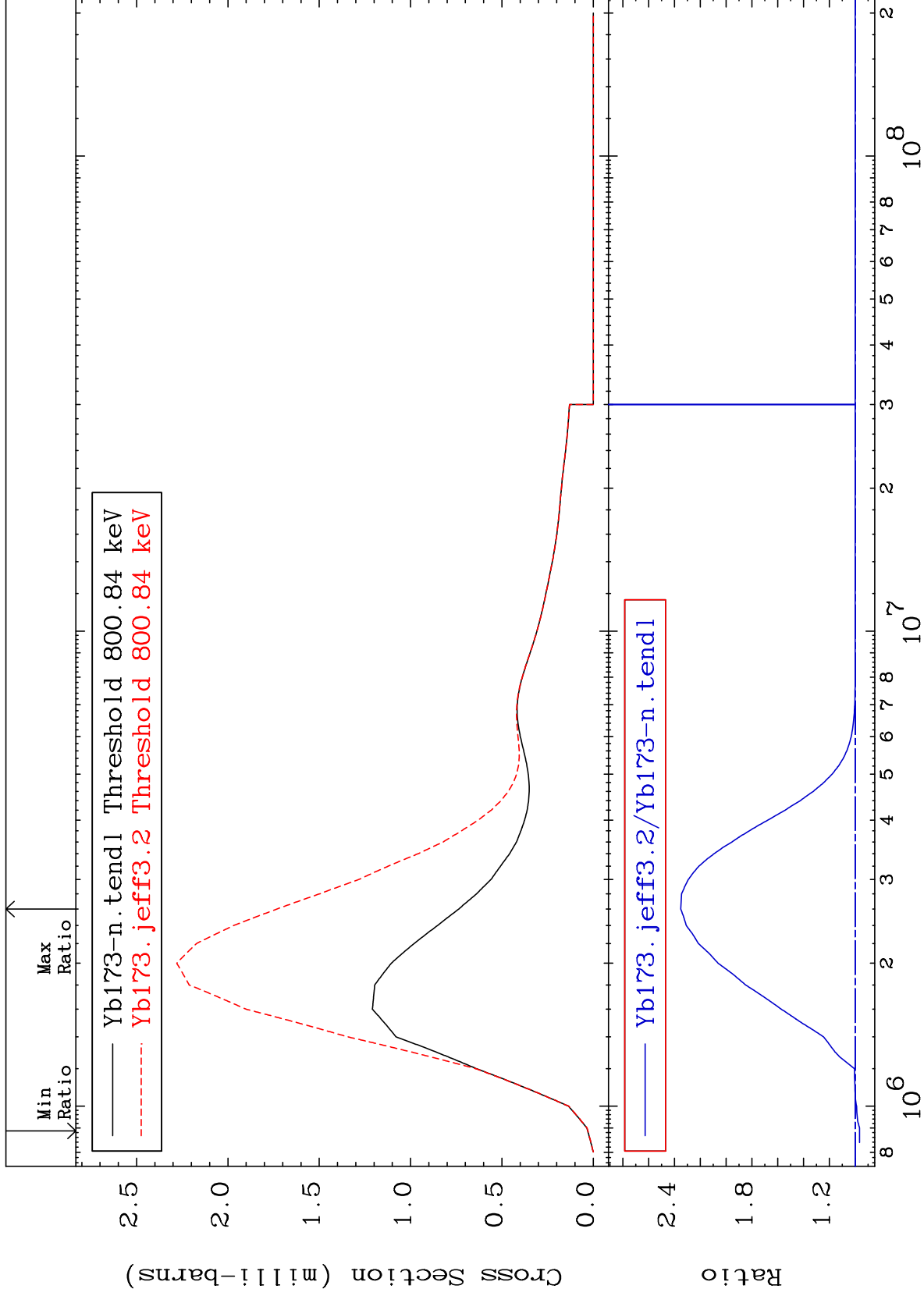
Cross Section



MAT 7040

796.2 keV (n,n') Level
Cross Section

70-Yb-173
-3.345 To 135.1 %



39

Incident Energy (eV)

70-Yb-173

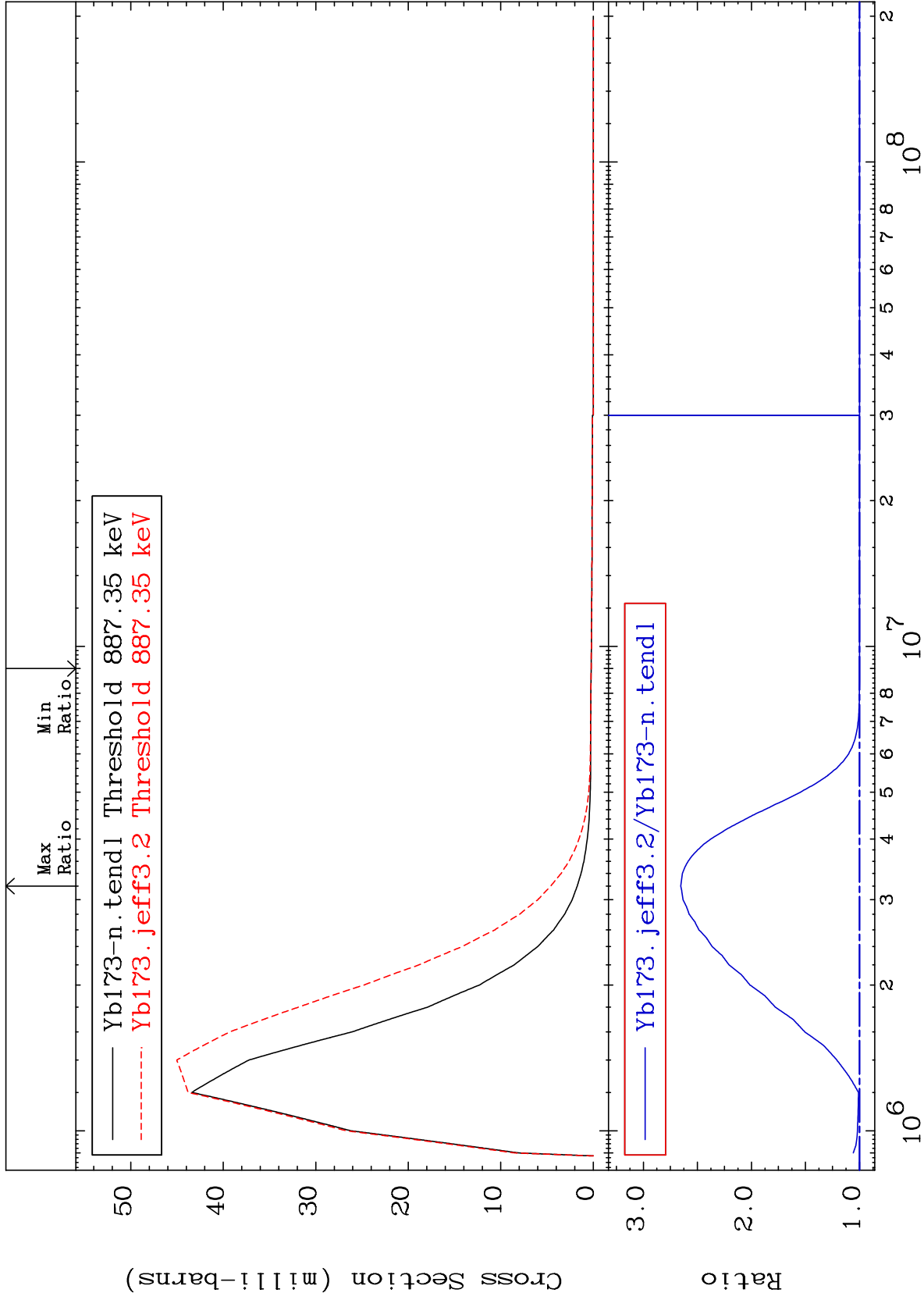
MAT 7040

882.2 keV (n,n') Level

⁷⁰Yb-173

Cross Section

-0.054 To 165.4 %



Incident Energy (eV)

⁷⁰Yb-173

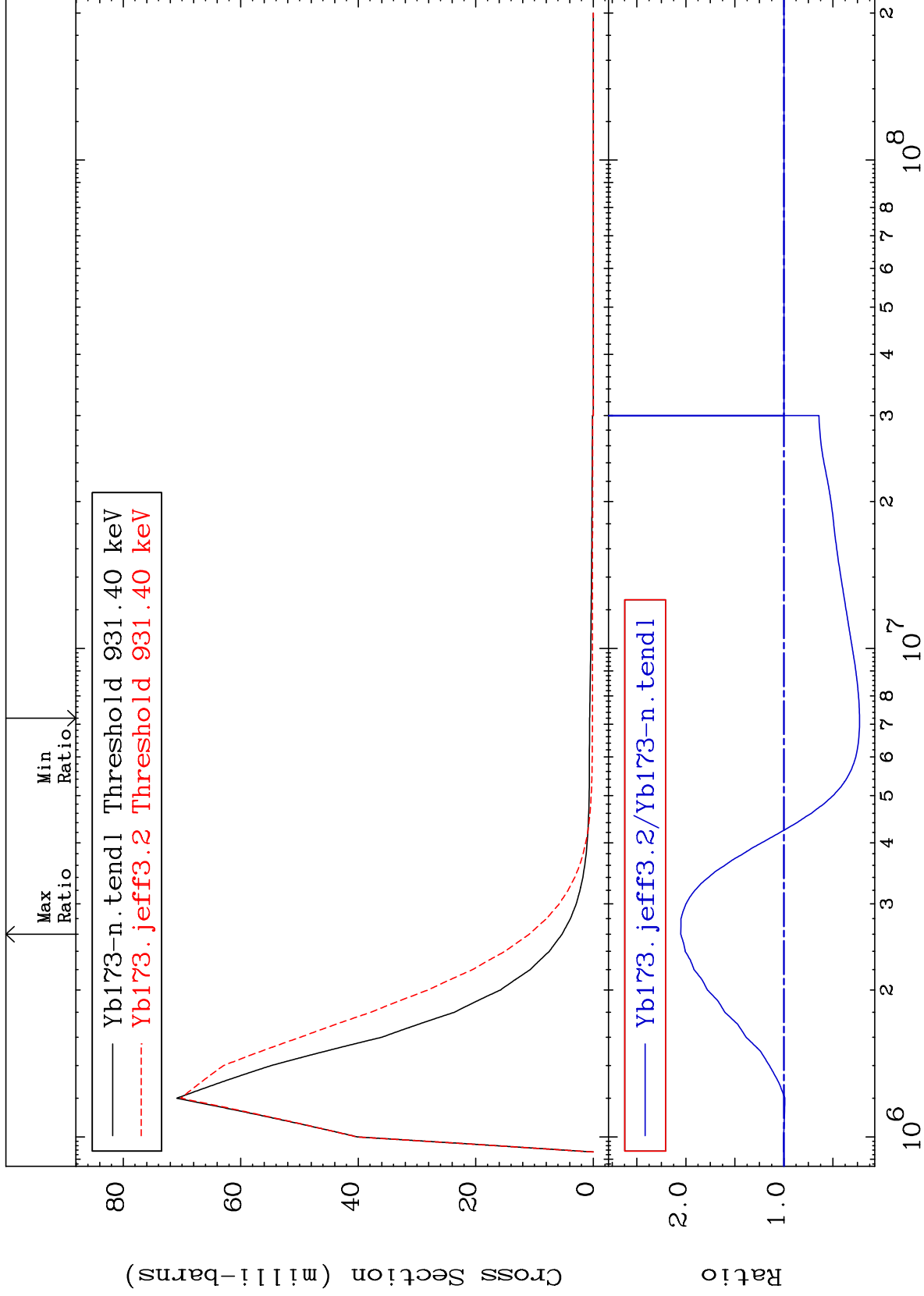
MAT 7040

926.0 keV (n,n') Level

70-Yb-173

Cross Section

-77.17 To 105.2 %



Incident Energy (eV)

70-Yb-173

41

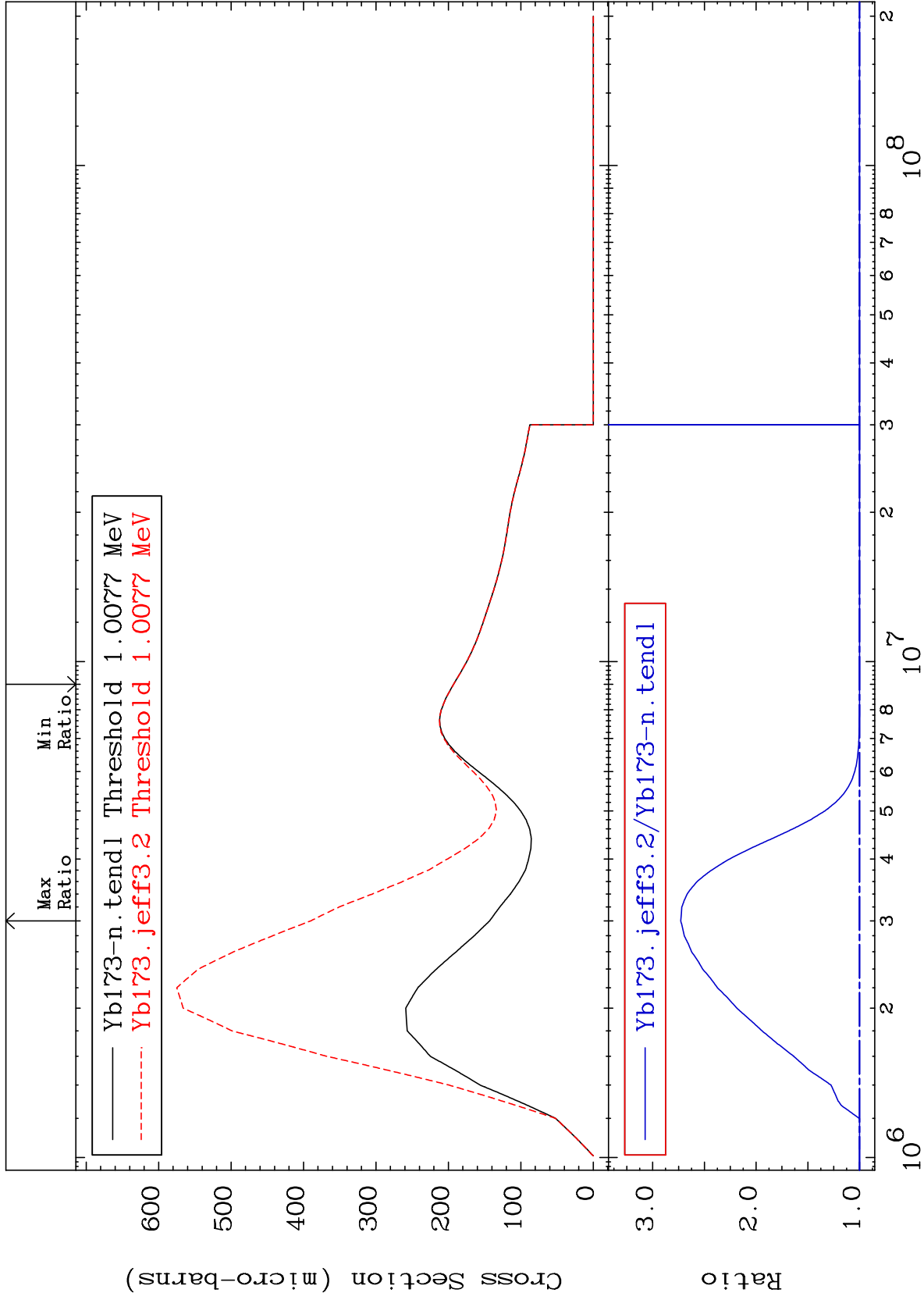
MAT 7040

1.002 MeV (n,n') Level

70-Yb-173

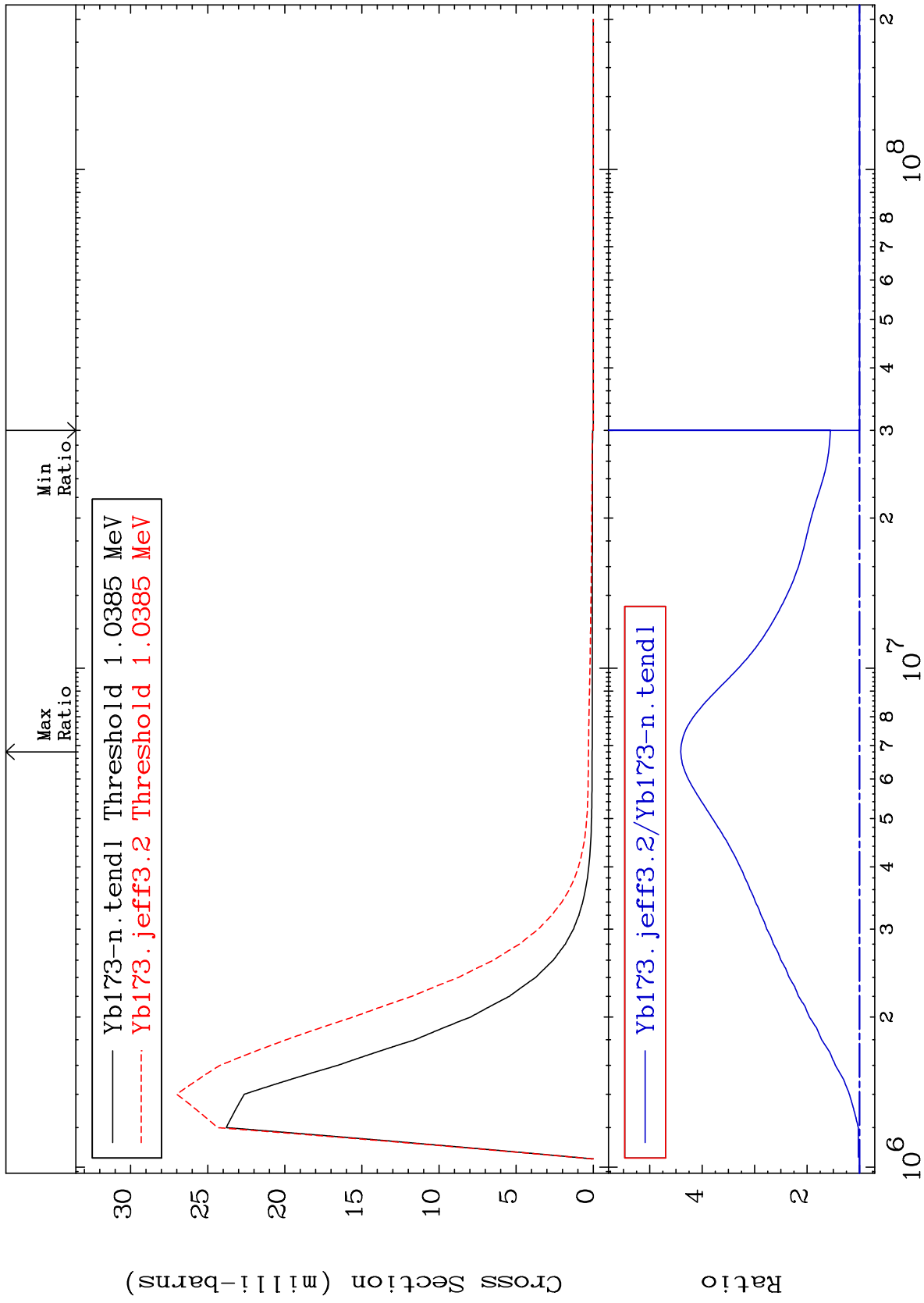
Cross Section

-0.022 To 172.8 %



42

MAT 7040 70-Yb-173
 1.033 MeV (n,n') Level To 340.6 %
 Cross Section

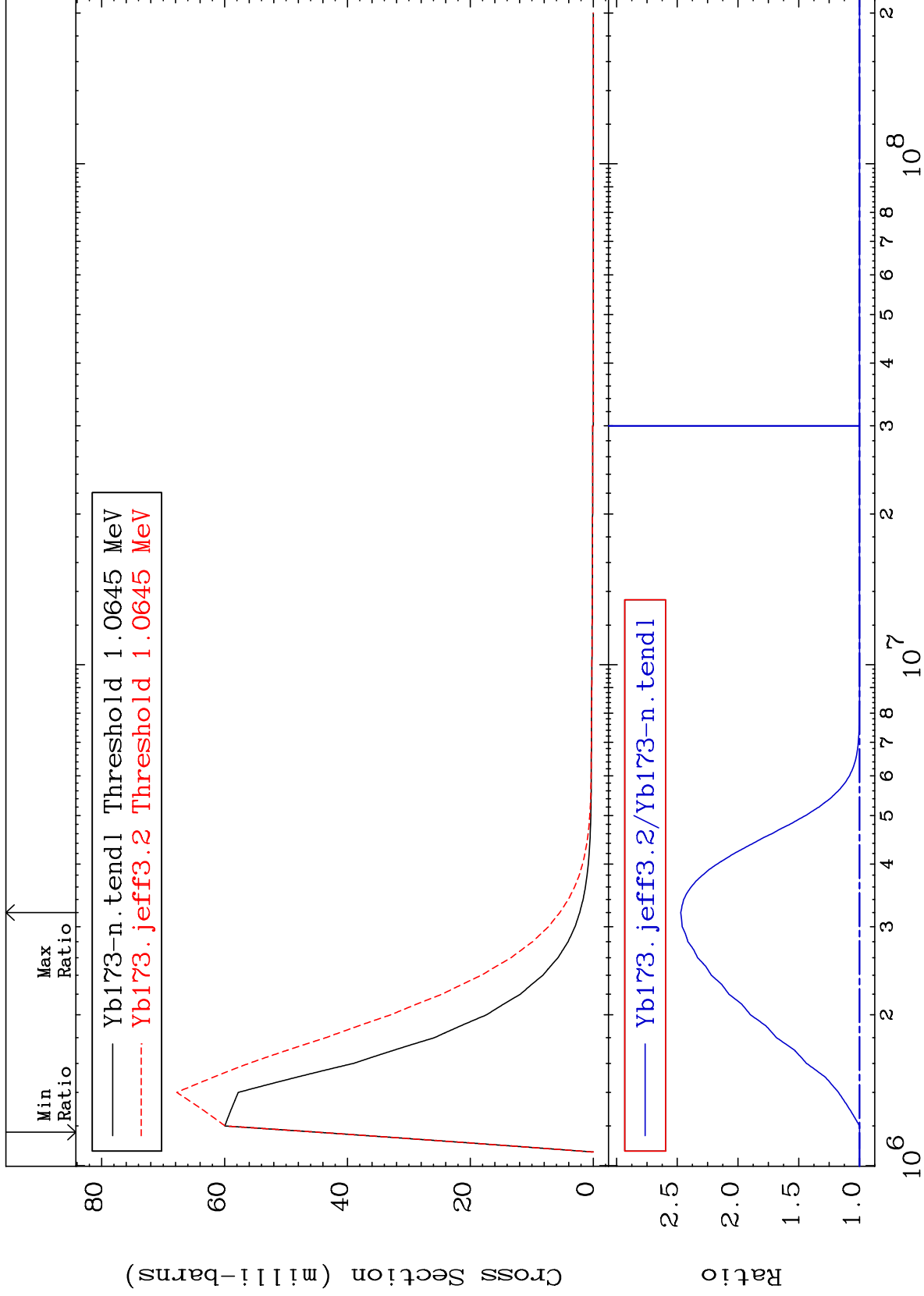


43 70-Yb-173
 Incident Energy (eV)

MAT 7040

1.058 MeV (n,n') Level
Cross Section

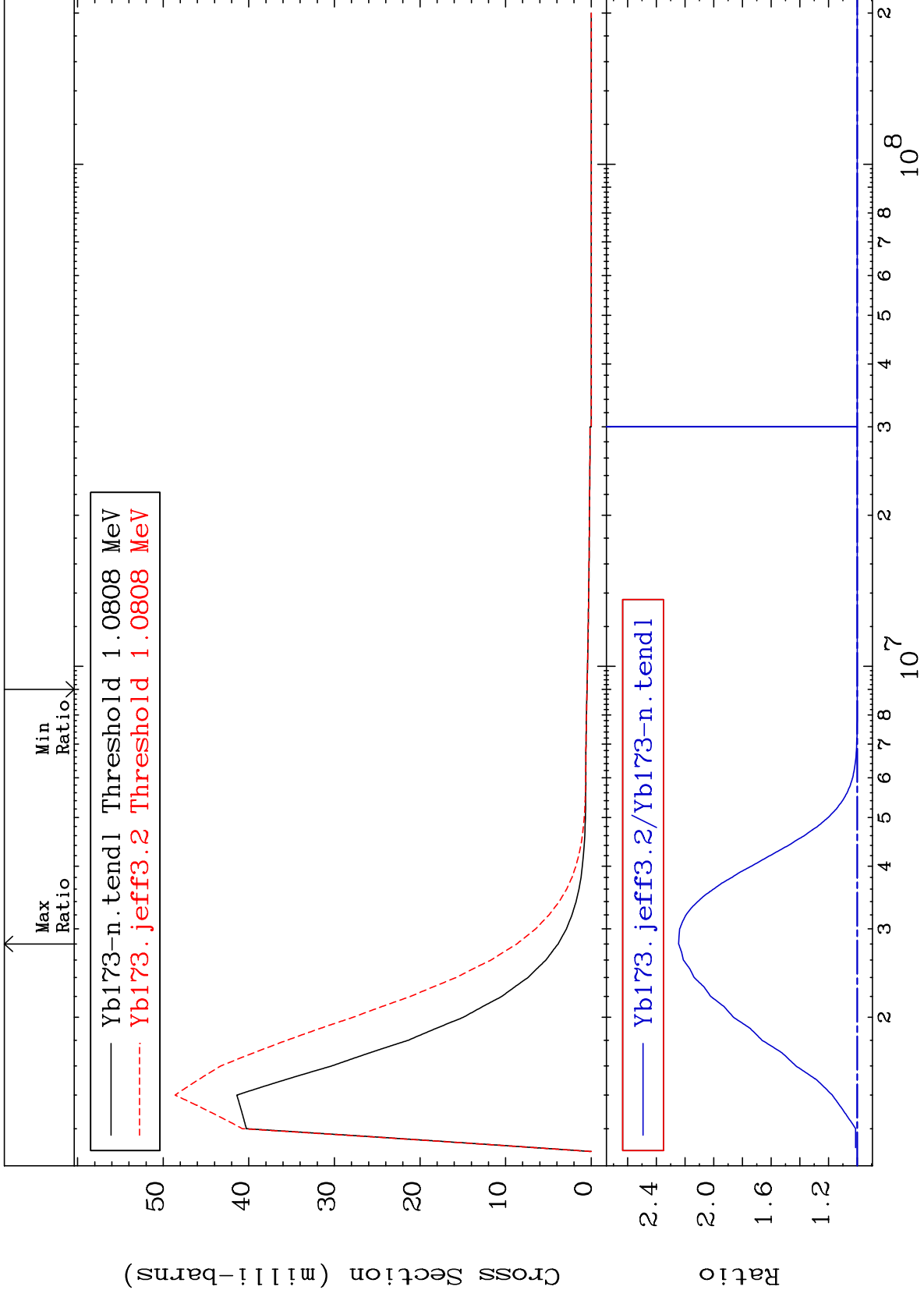
⁷⁰Yb-173
-0.060 To 147.1 %



MAT 7040

1.075 MeV (n,n') Level
Cross Section

⁷⁰Yb-¹⁷³
-0.017 To 124.5 %



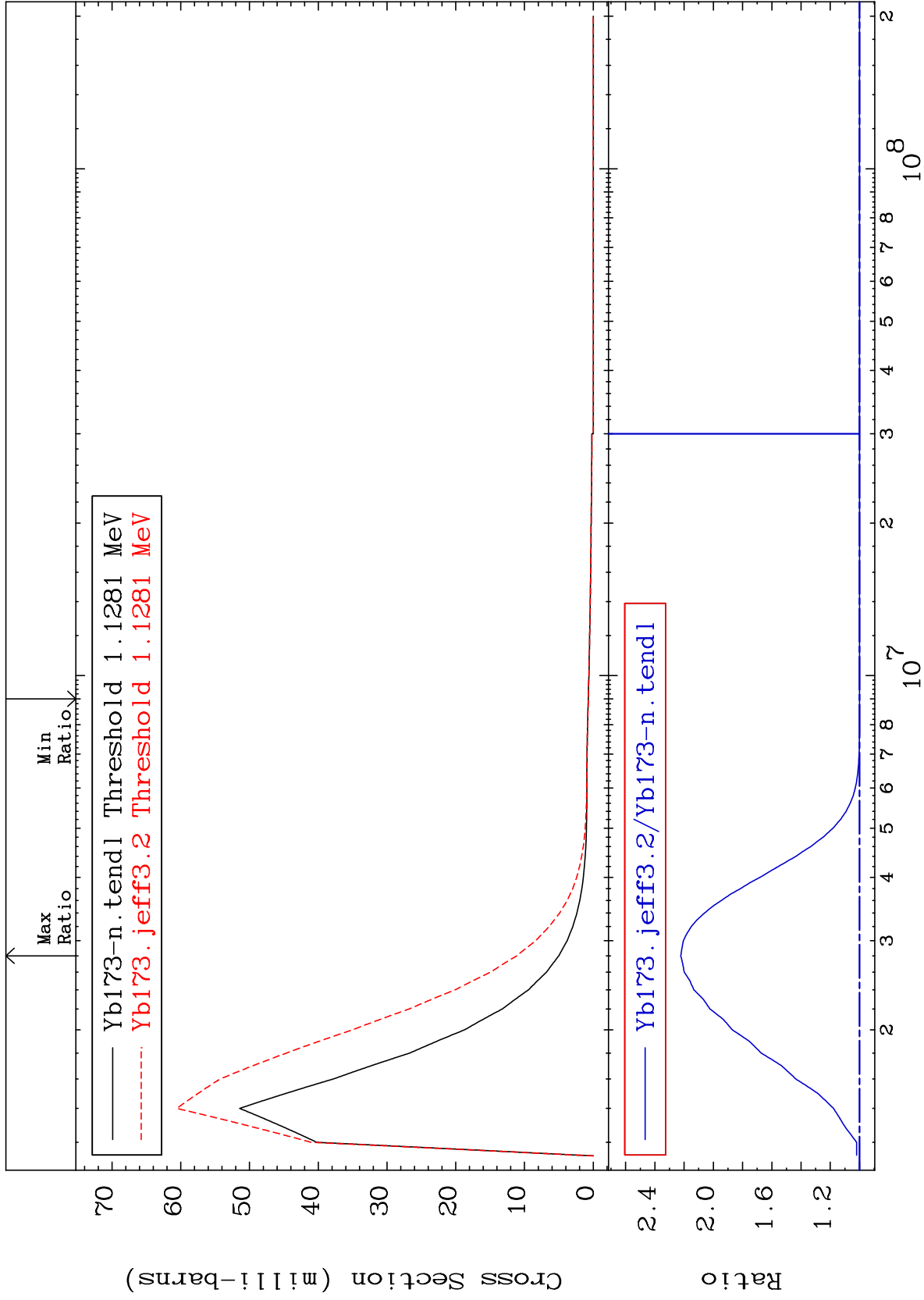
MAT 7040

1.122 MeV (n,n') Level

⁷⁰Yb-173

Cross Section

-0.015 To 122.3 %



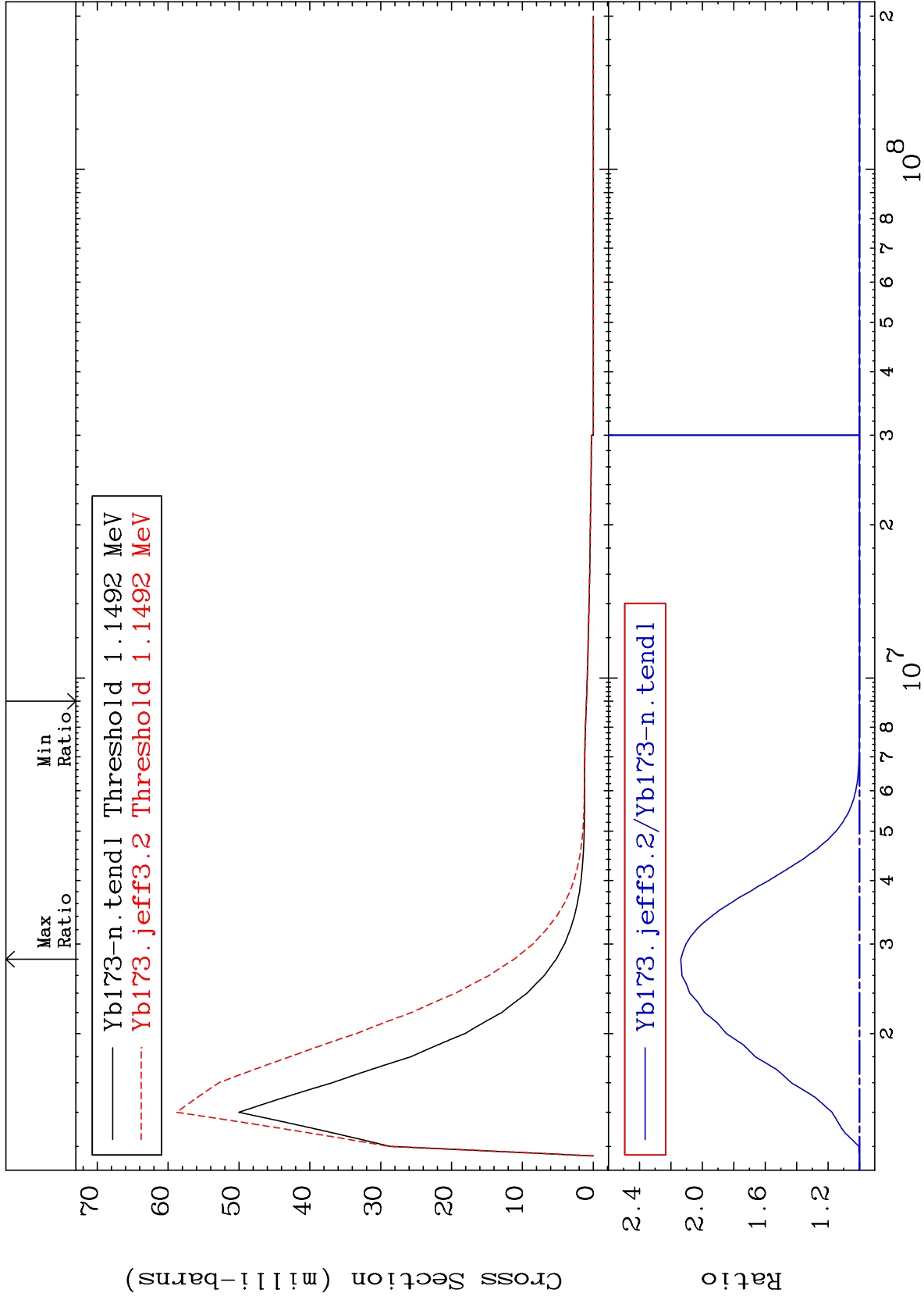
MAT 7040

1.142 MeV (n,n') Level

⁷⁰Yb-173

Cross Section

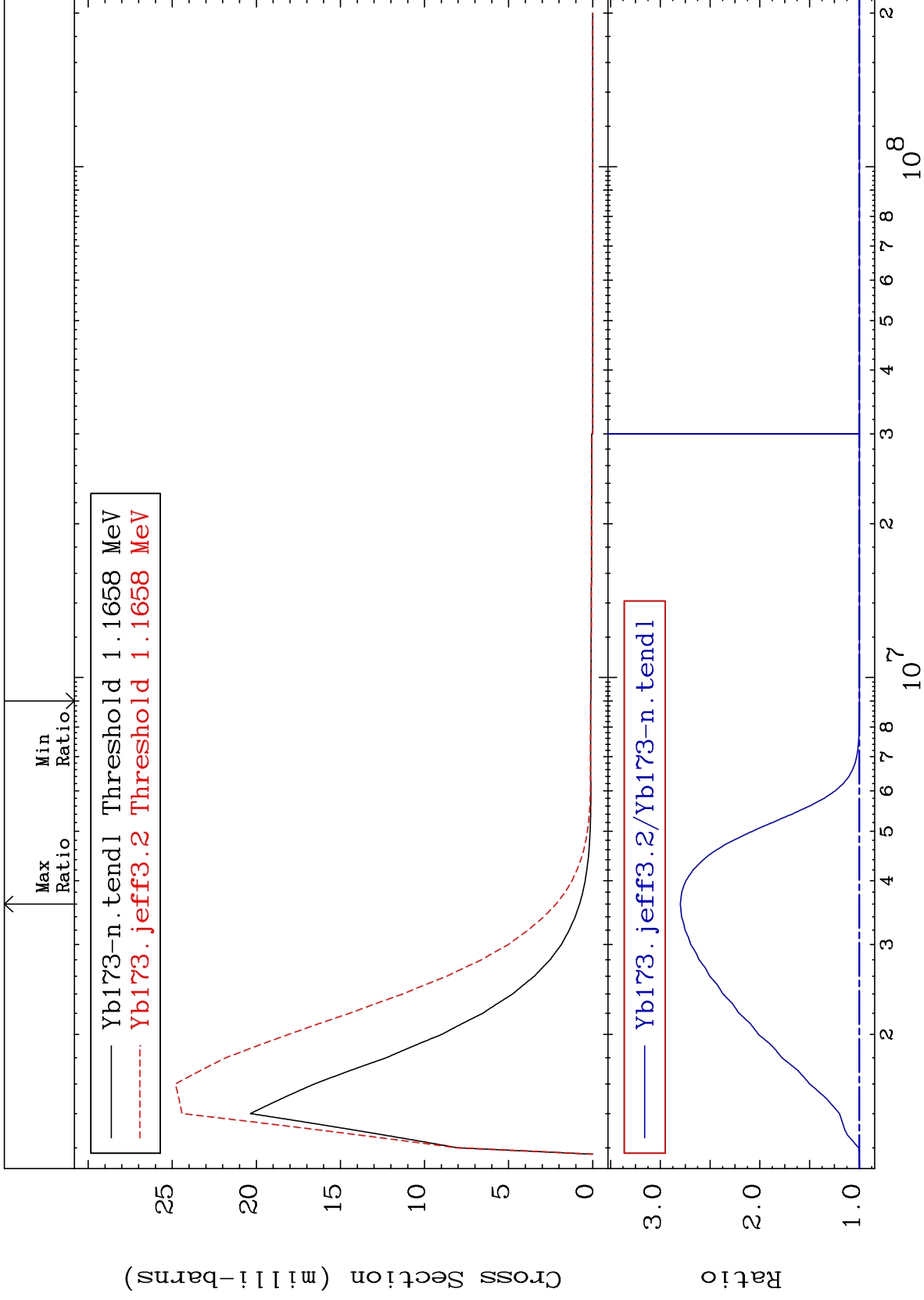
-0.013 To 113.7 %



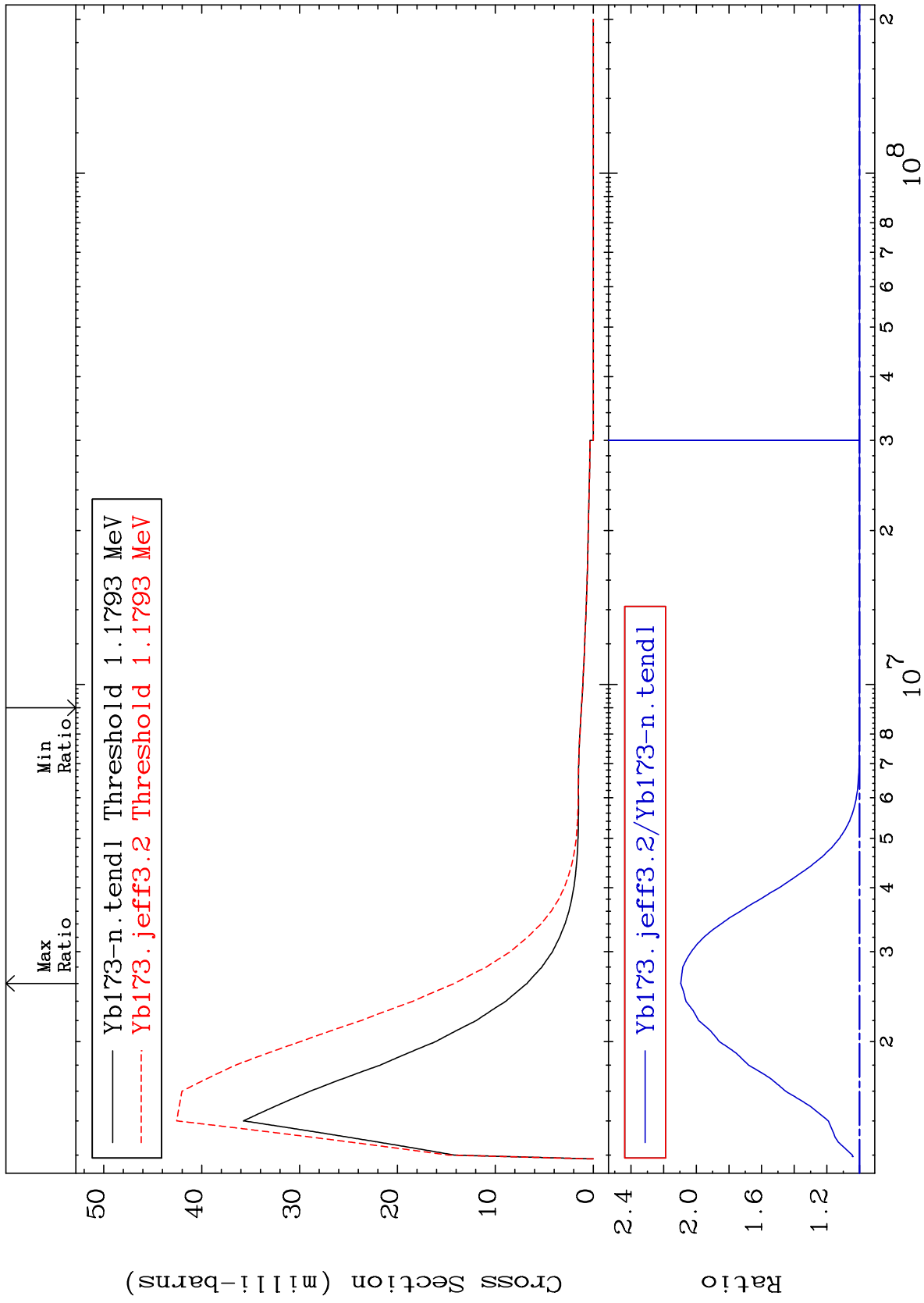
MAT 7040

1.159 MeV (n,n') Level
Cross Section

70-Yb-173
-0.105 To 179.9 %



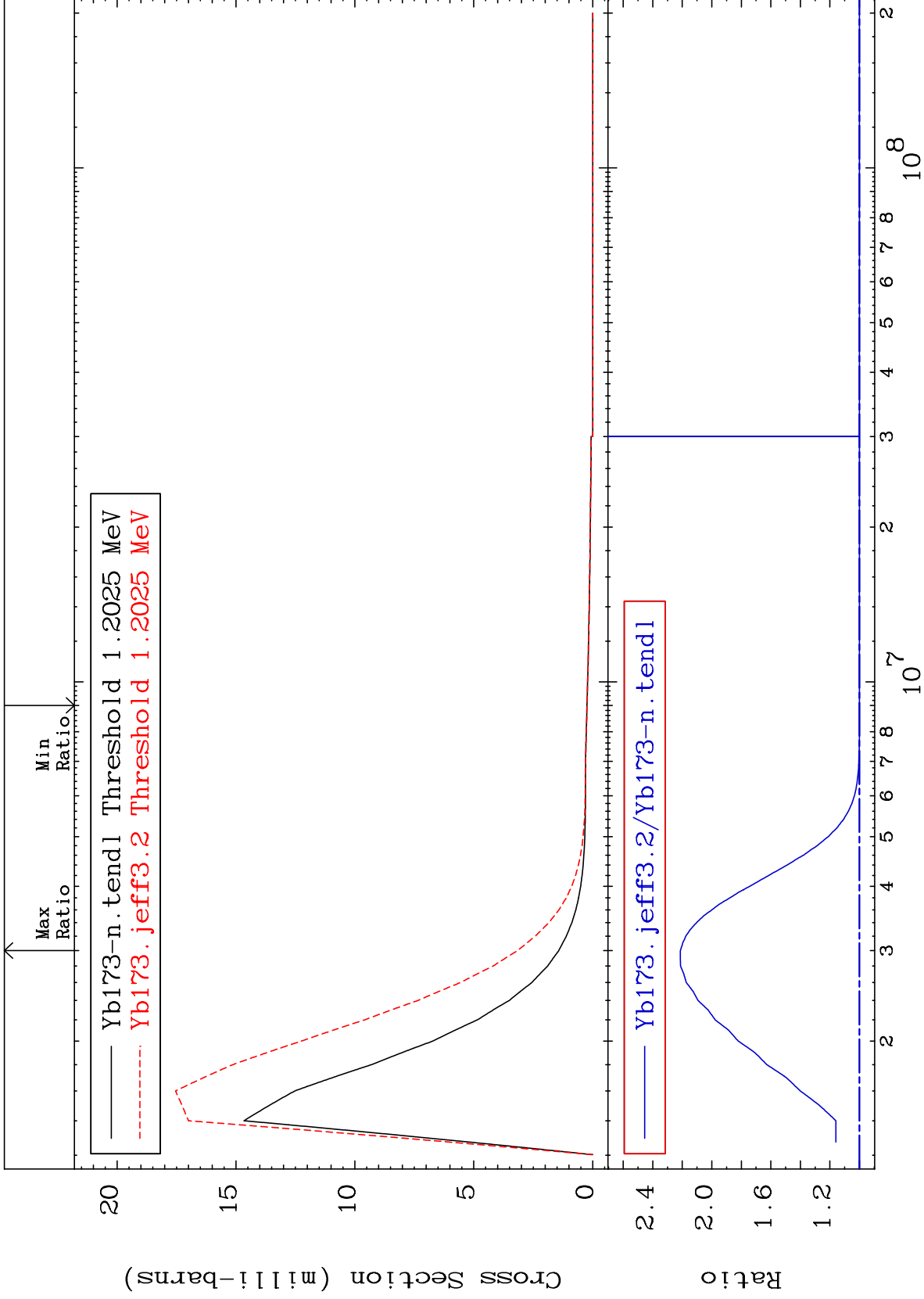
MAT 7040 1.172 MeV (n,n') Level 70-Yb-173
 Cross Section -0.010 To 109.5 %

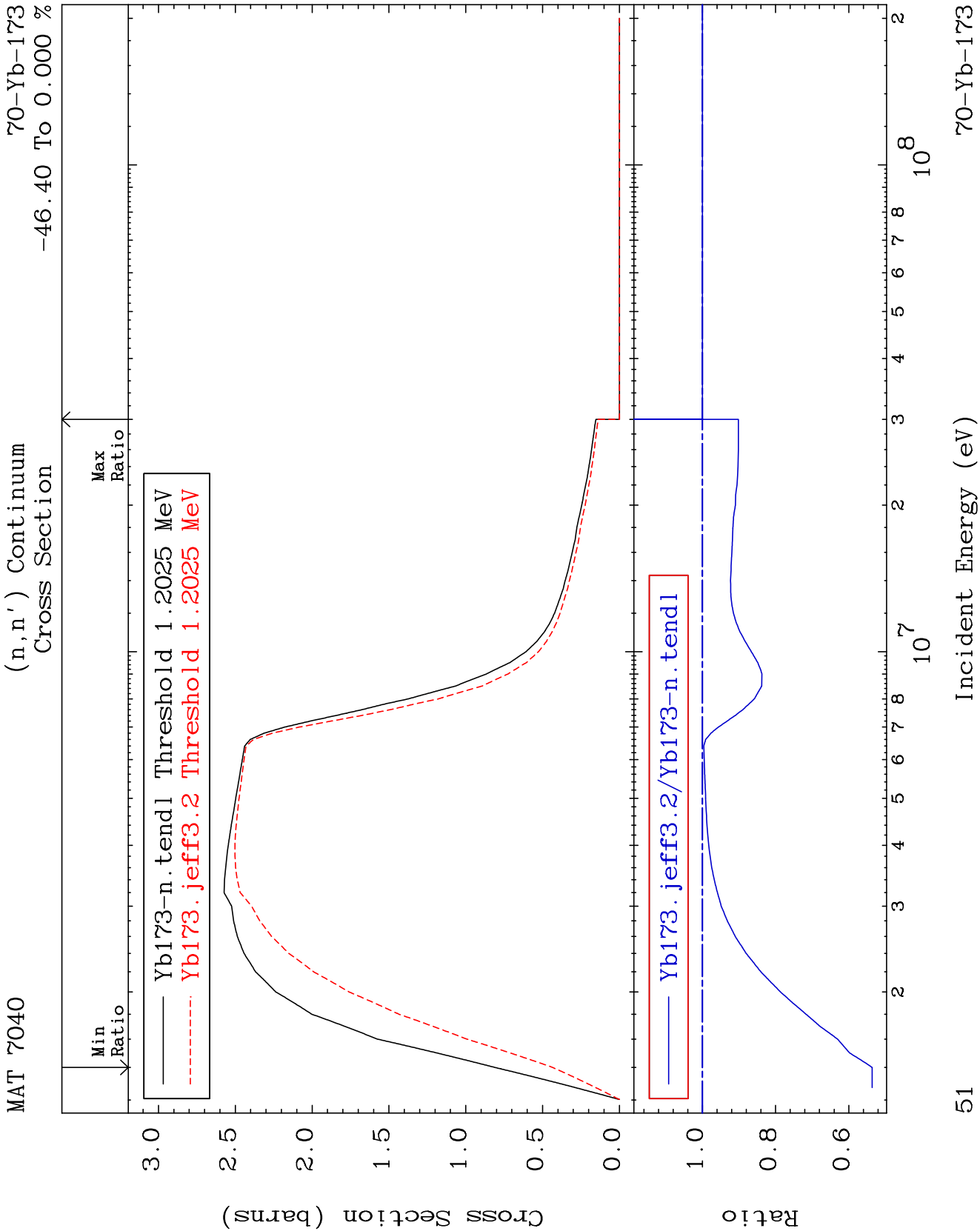


MAT 7040

1.196 MeV (n,n') Level
Cross Section

⁷⁰Yb-¹⁷³
-0.018 To 121.3 %

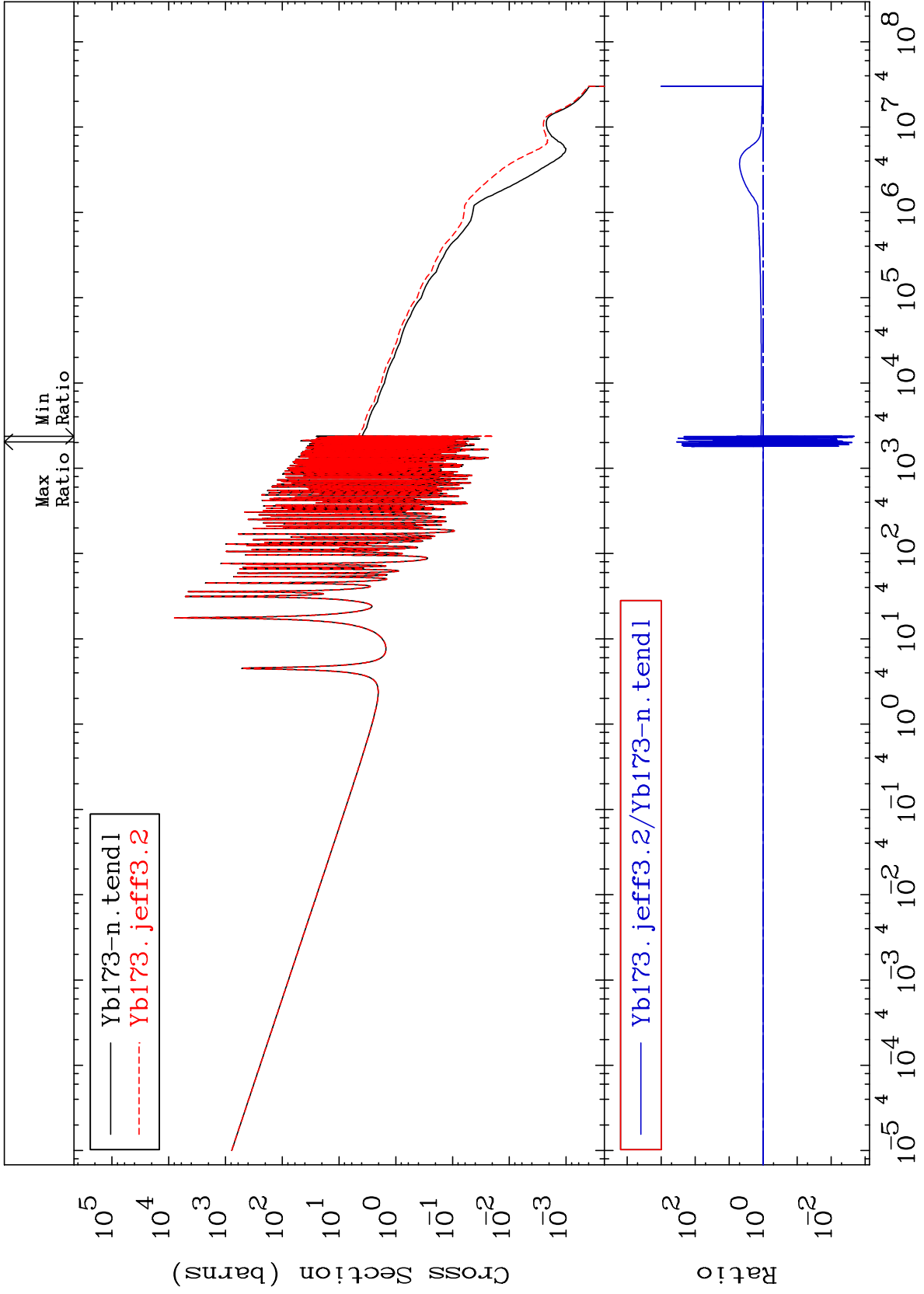




MAT 7040

(n, γ)
Cross Section

70-Yb-173
-99.79 To 9999. %



52

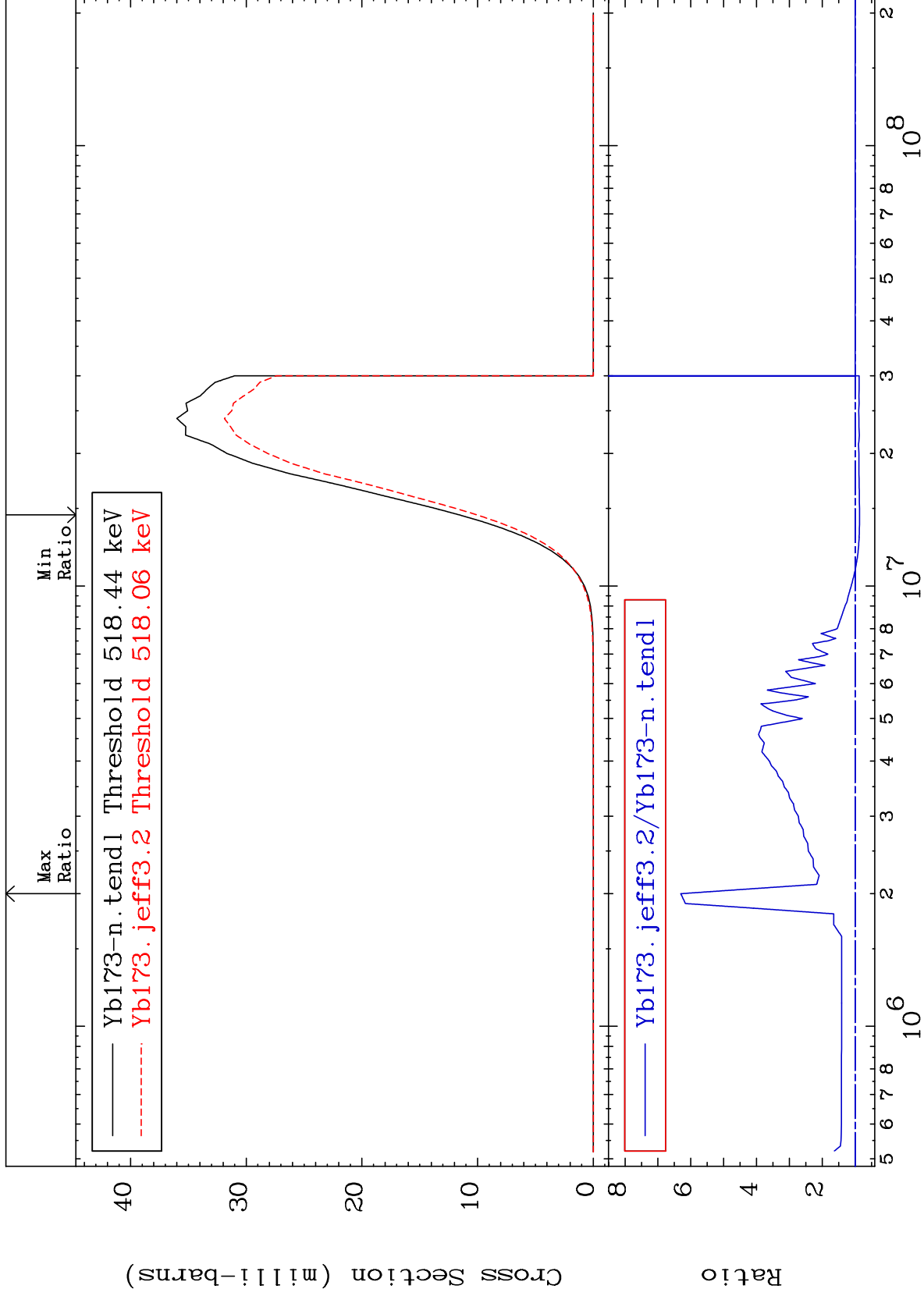
Incident Energy (eV)

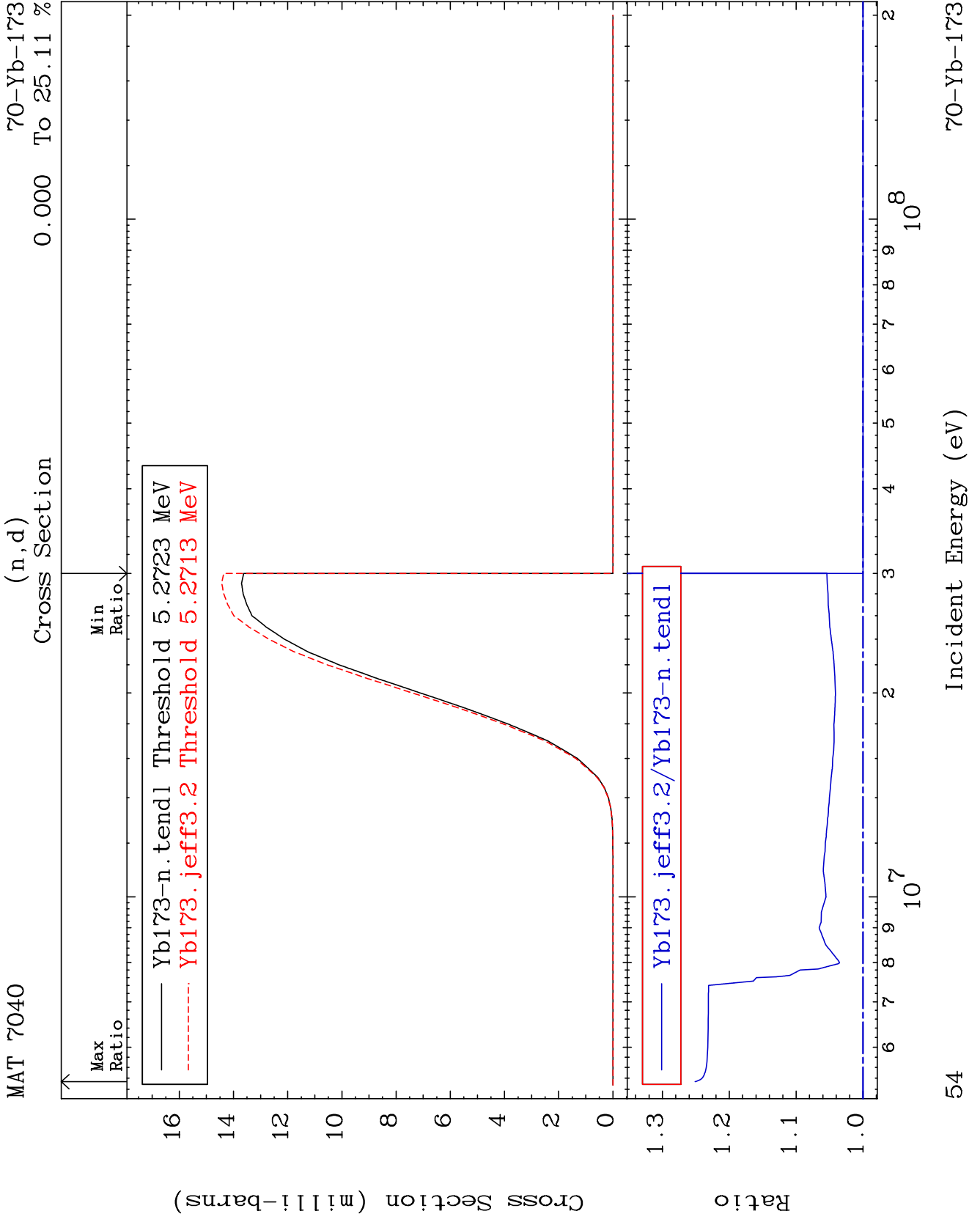
70-Yb-173

MAT 7040

(n, p)
Cross Section

⁷⁰Yb-173
-13.13 To 530.5 %

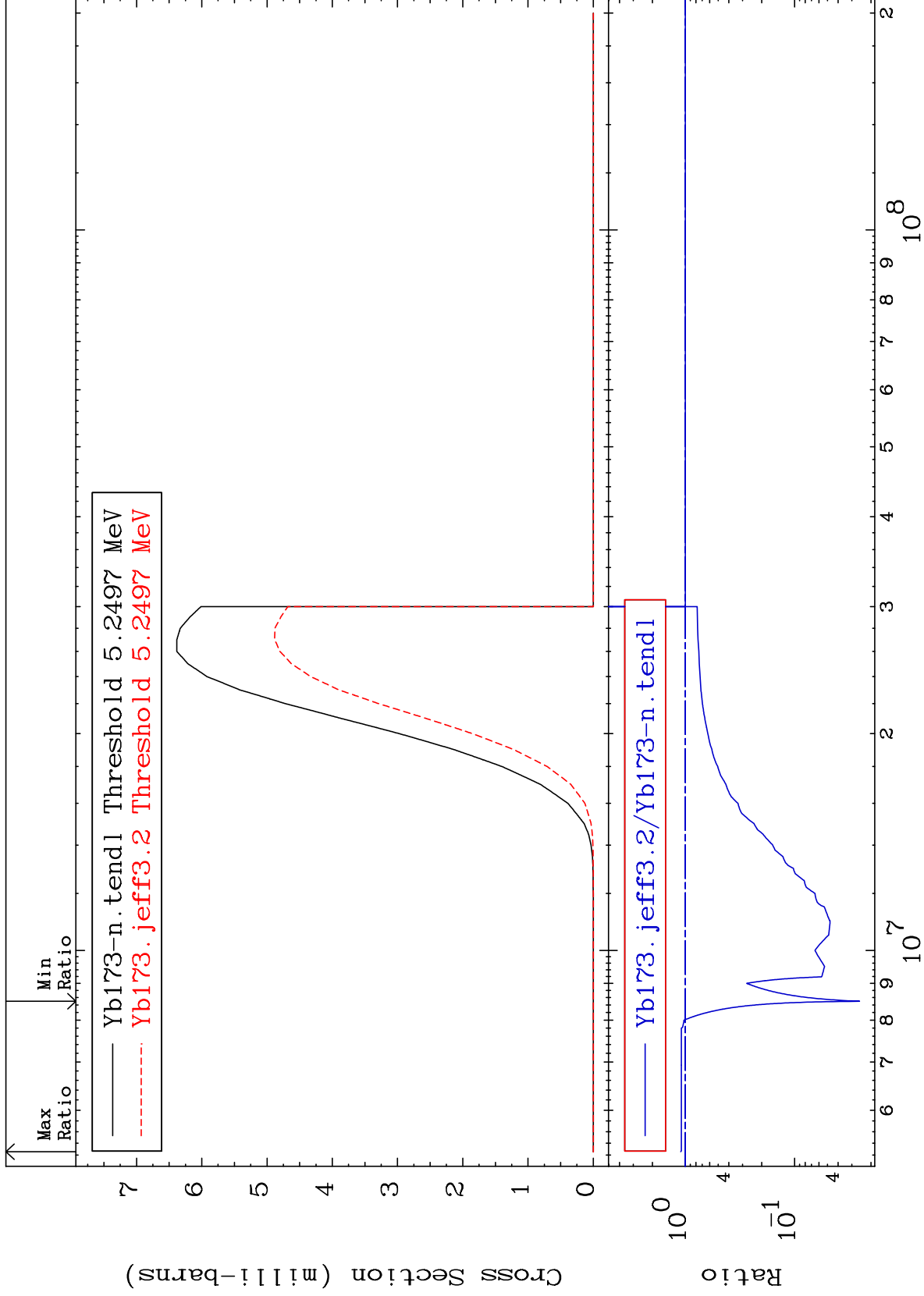




MAT 7040

(n, t)
Cross Section

70-Yb-173
-97.45 To 10.05 %

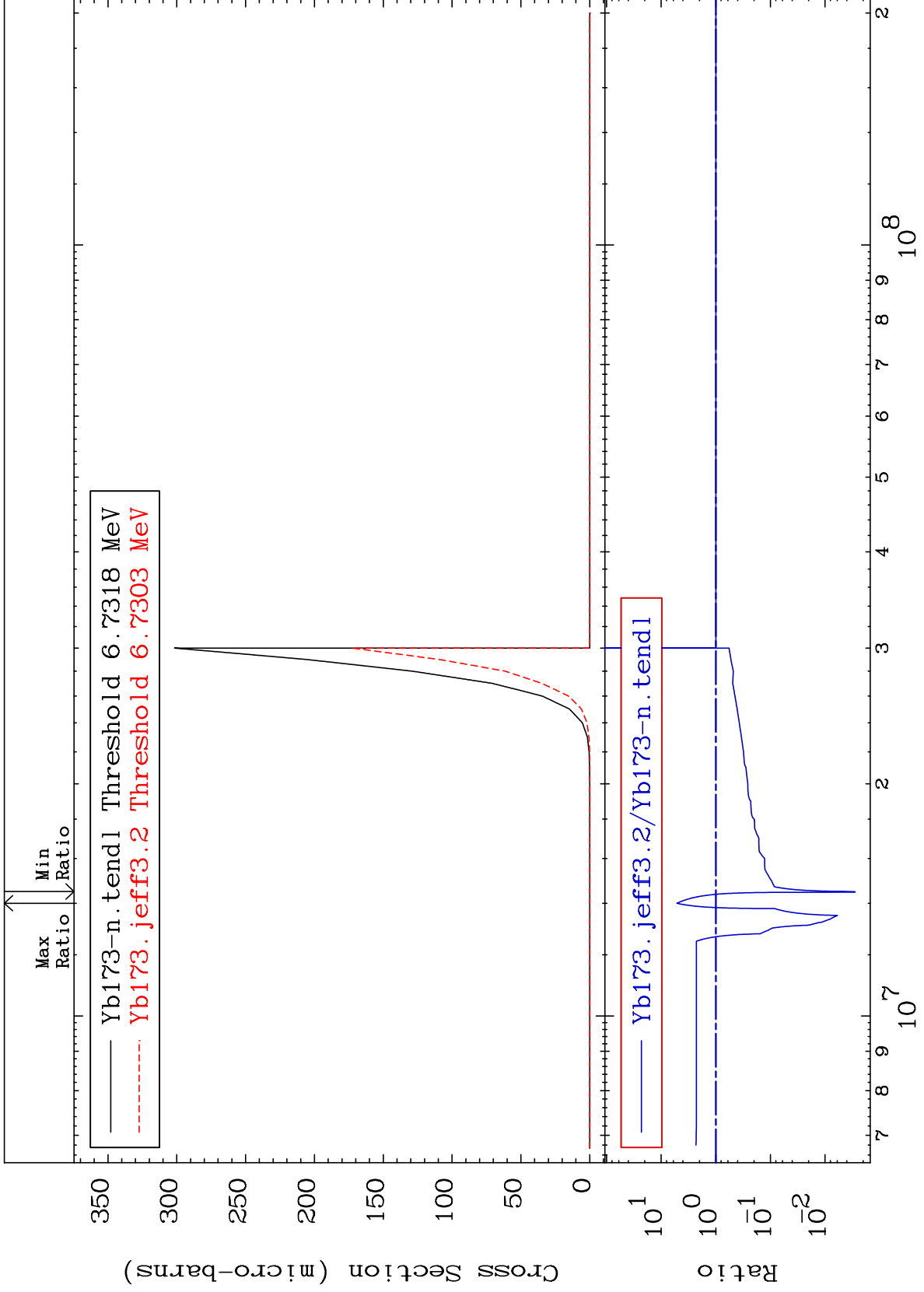


MAT 7040

(n, He-3)

70-Yb-173
-99.72 To 415.6 %

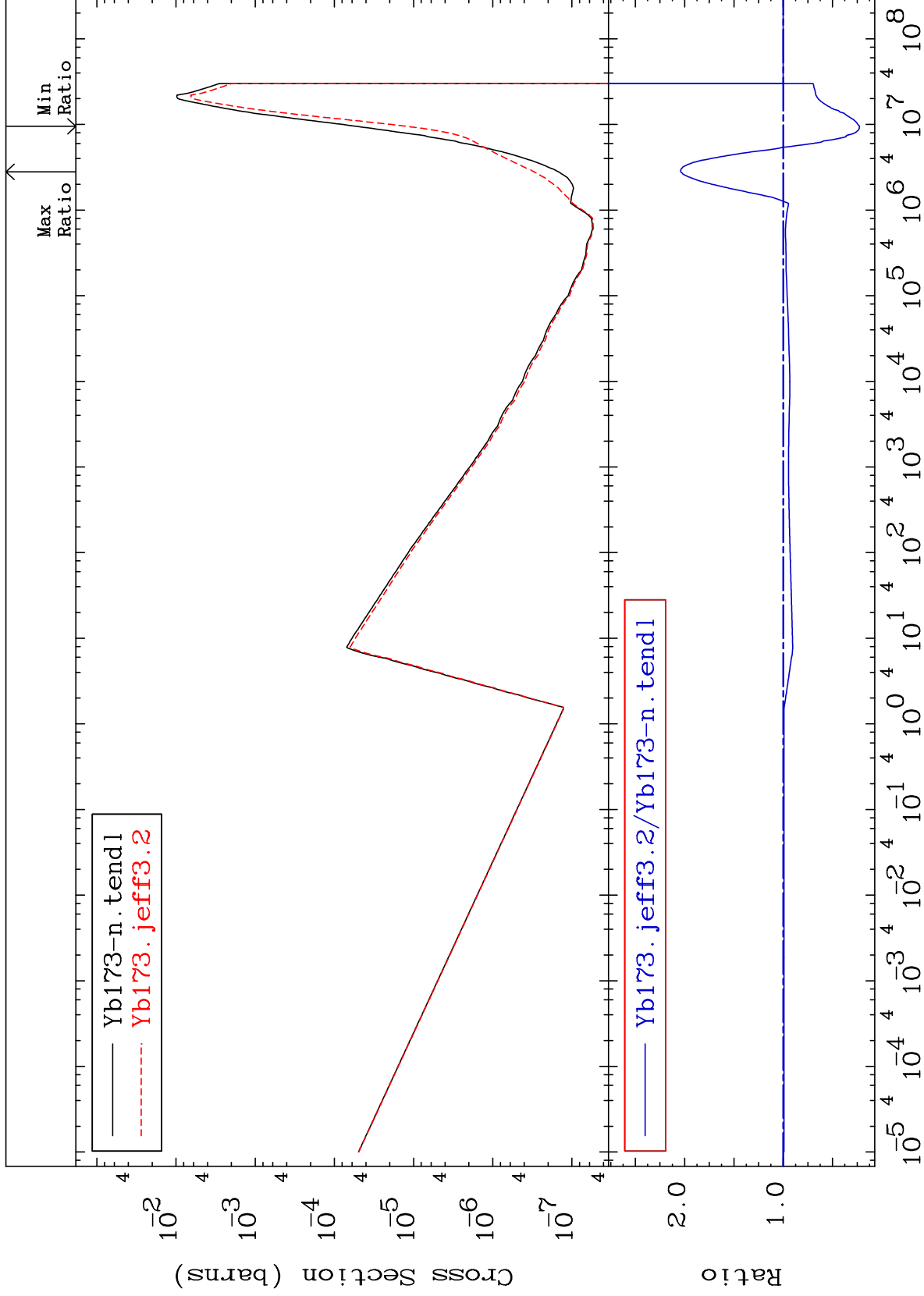
Cross Section



MAT 7040

(n, α)
Cross Section

70-Yb-173
-77.39 To 103.9 %



57

Incident Energy (eV)

70-Yb-173

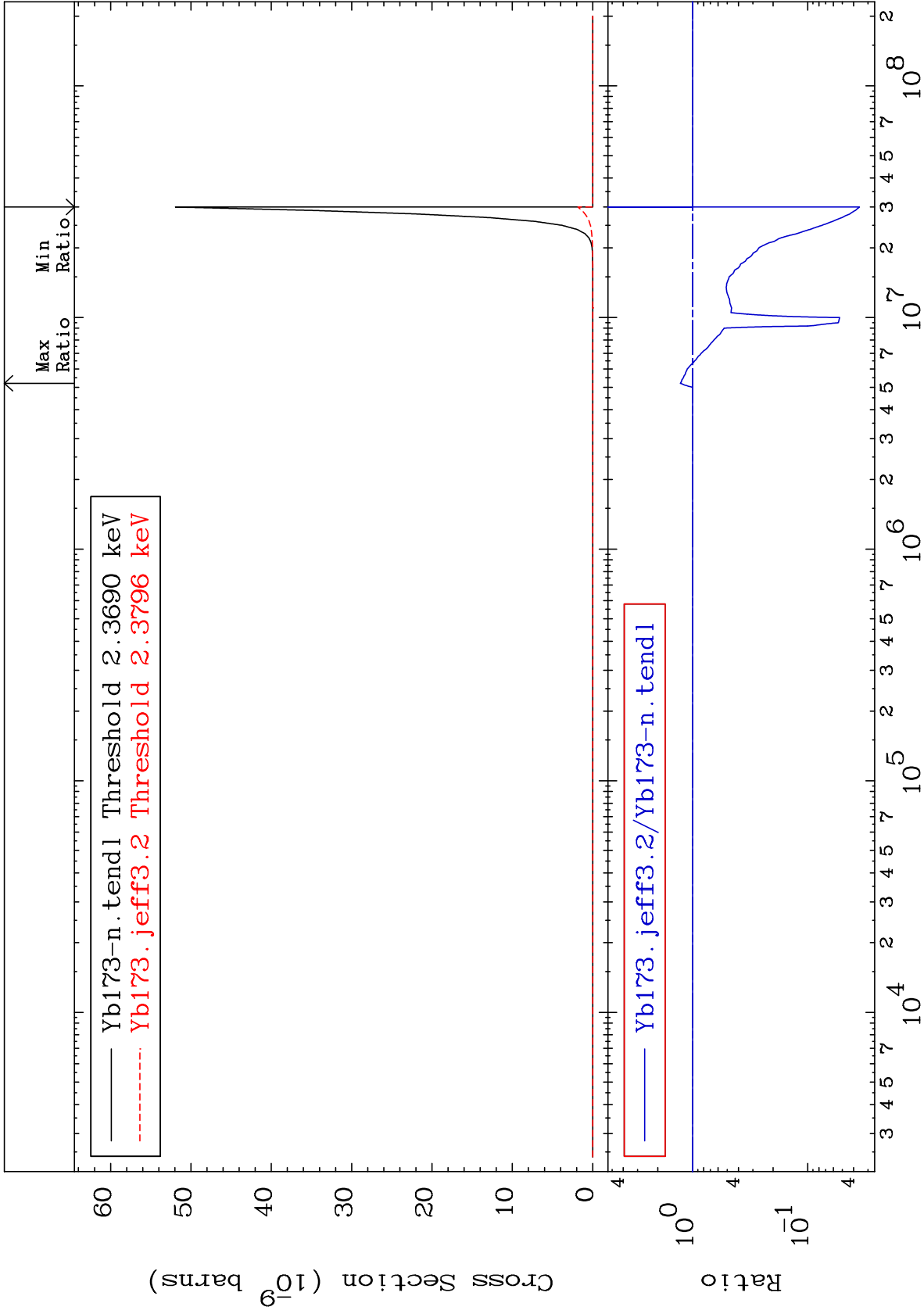
MAT 7040

(n,2α)

70-Yb-173

Cross Section

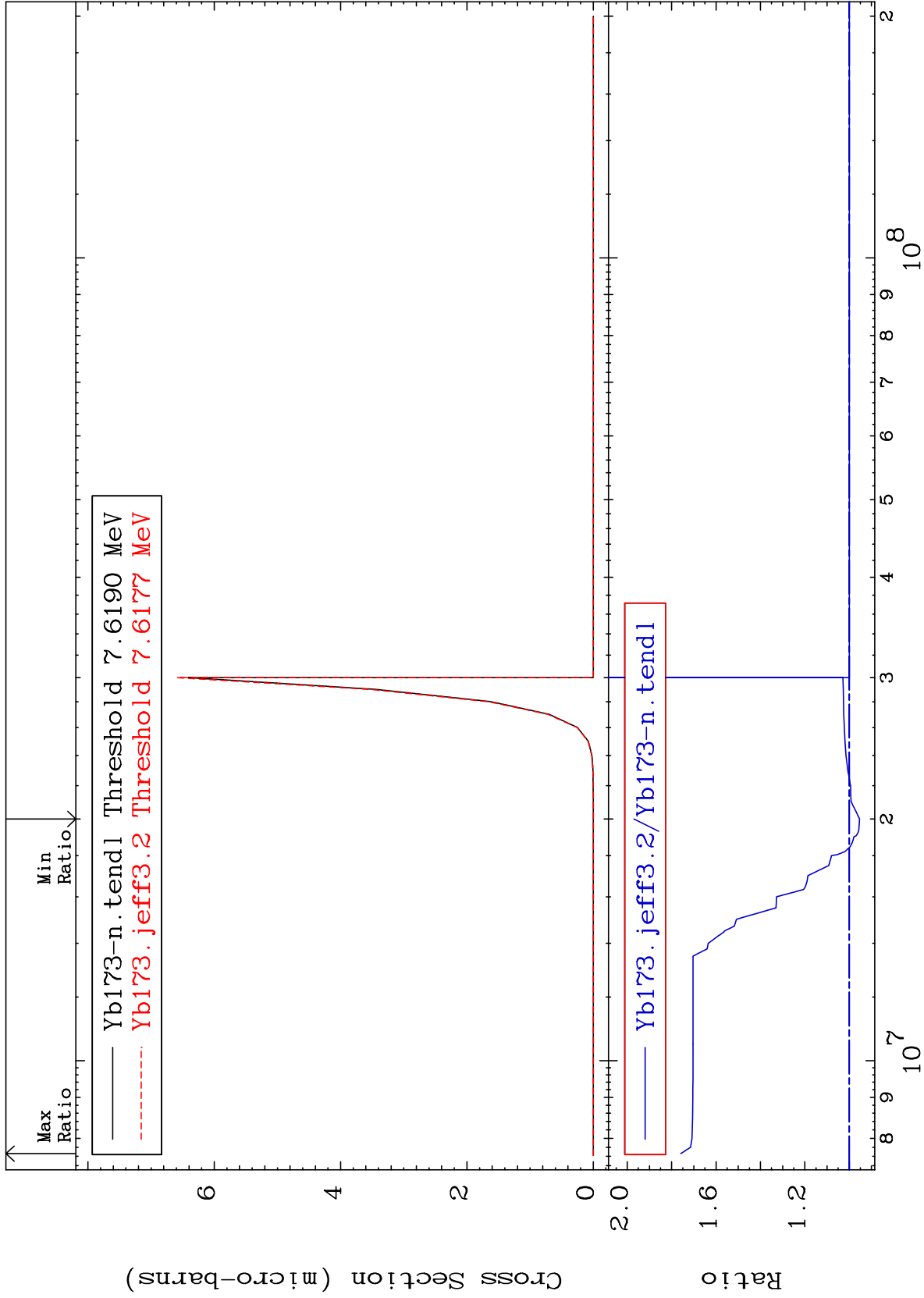
-96.44 To 27.62 %



MAT 7040

(n,2p)
Cross Section

70-Yb-173
-4.636 To 75.88 %



59

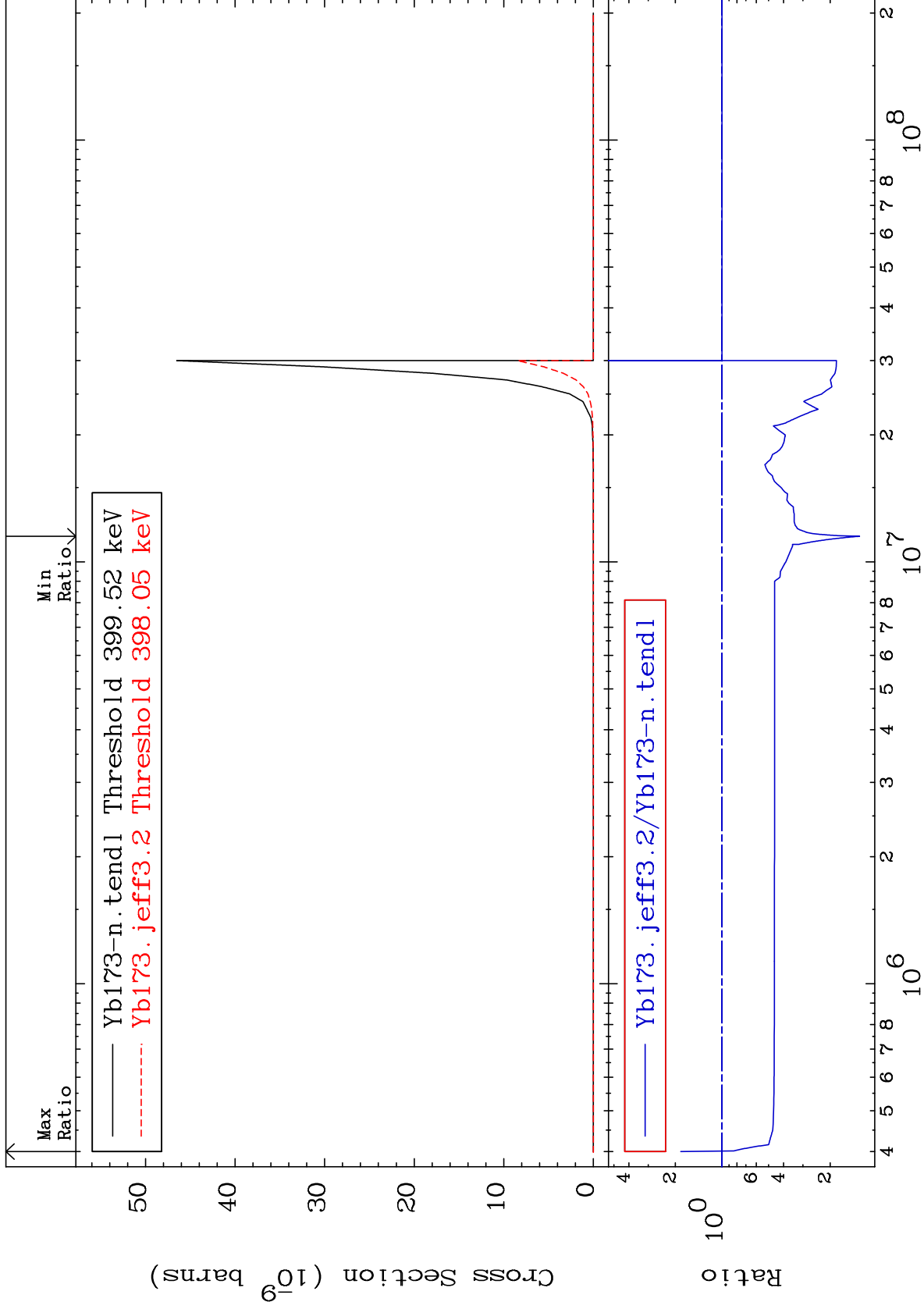
Incident Energy (eV)

70-Yb-173

MAT 7040

(n, p) α
Cross Section

⁷⁰Yb-173
-87.09 To 84.62 %



60

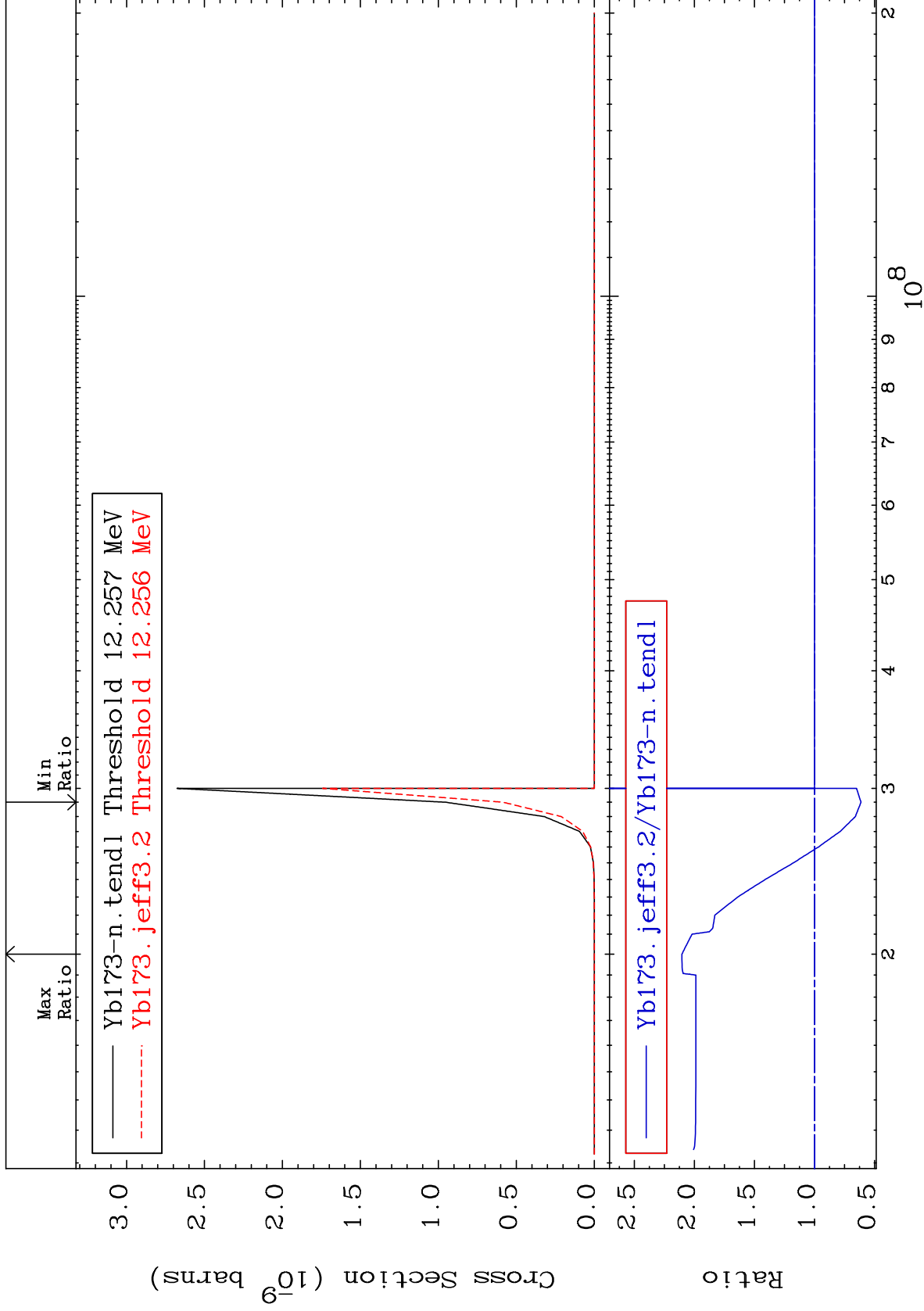
Incident Energy (eV)

⁷⁰Yb-173

MAT 7040

(n, p) d
Cross Section

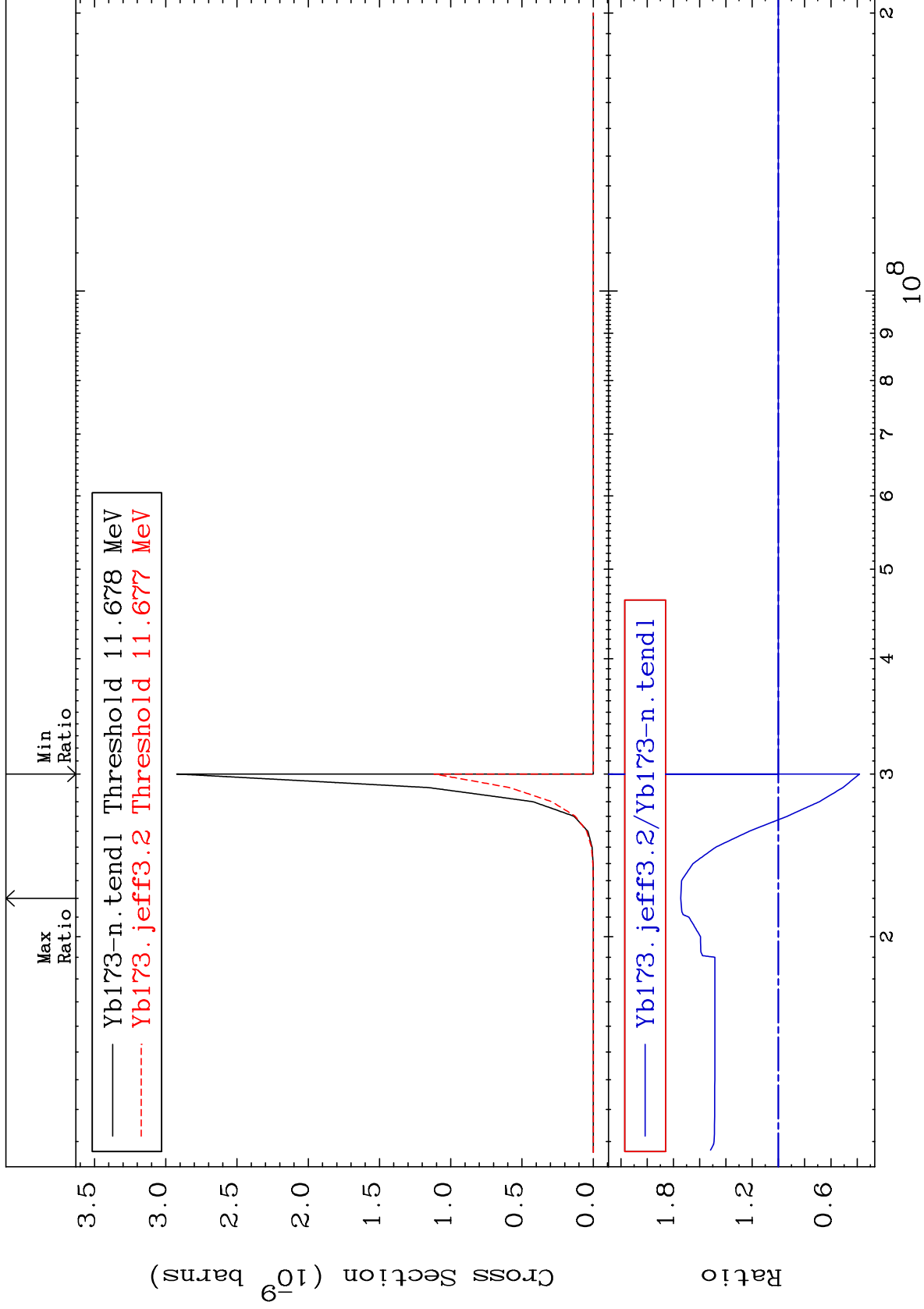
⁷⁰Yb-173
-38.68 To 110.4 %

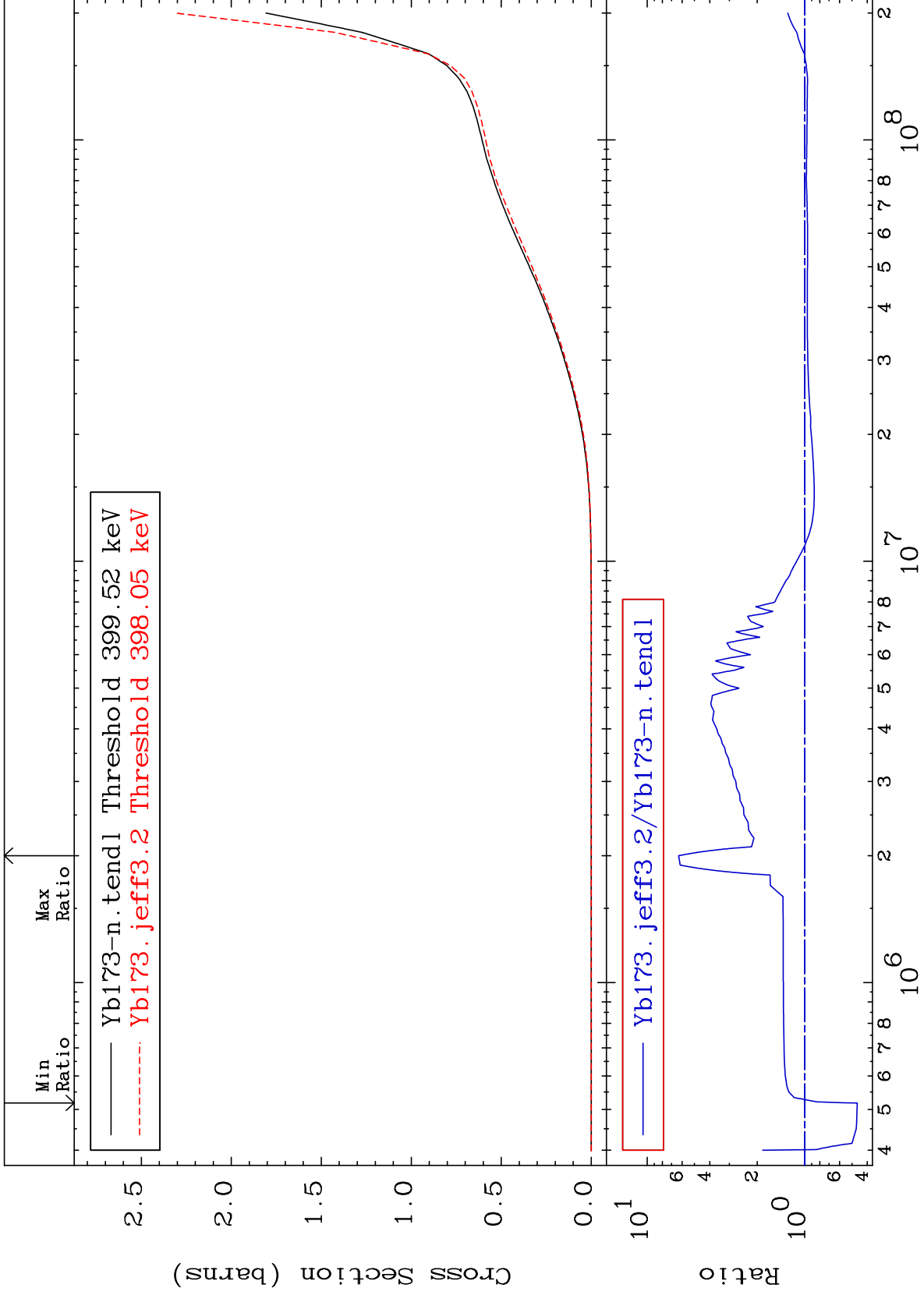


MAT 7040

(n, p) t
Cross Section

70-Yb-173
-61.81 To 74.40 %

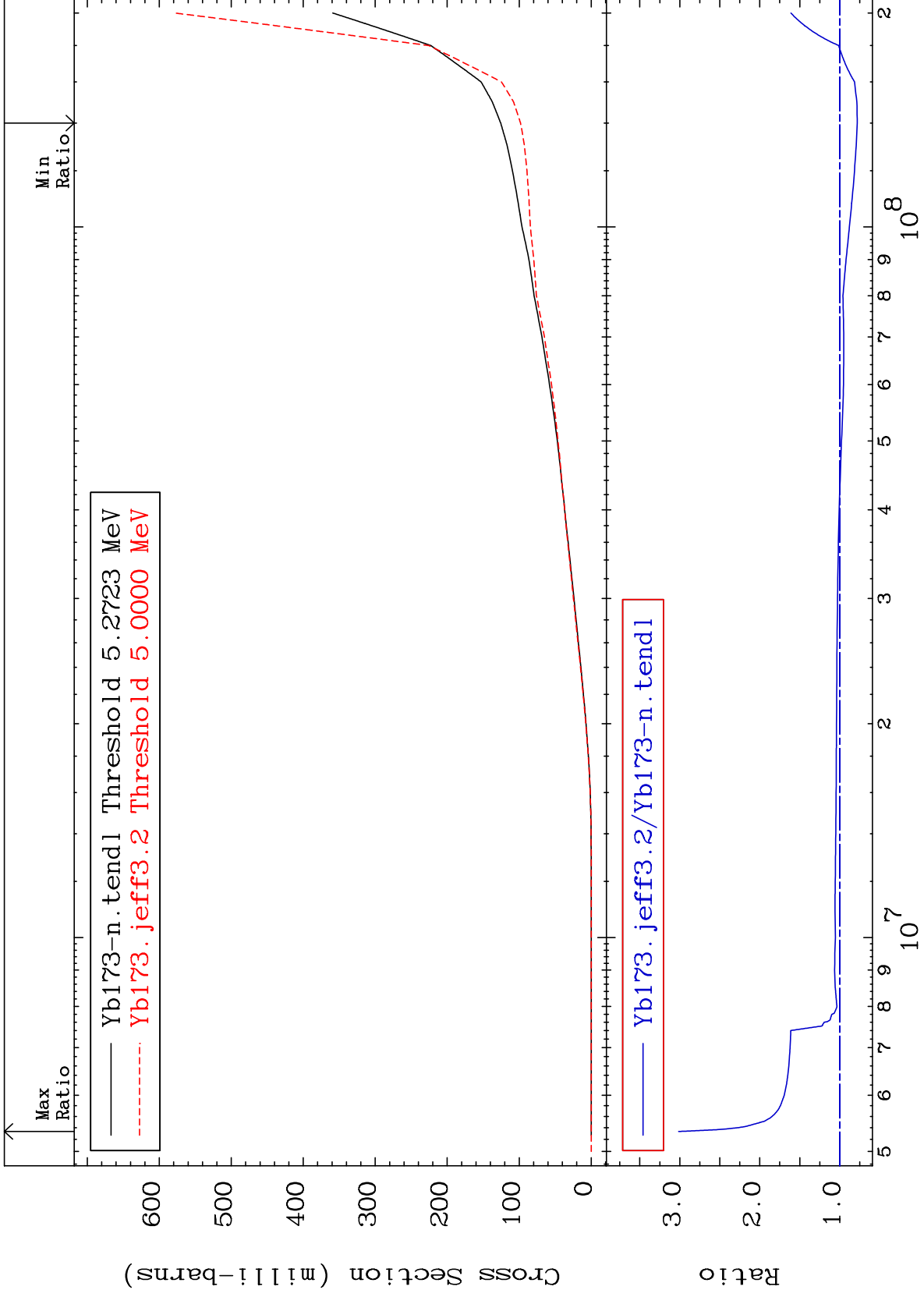




MAT 7040

Deuterium Production
Cross Section

70-Yb-173
-21.90 To 201.4 %



64

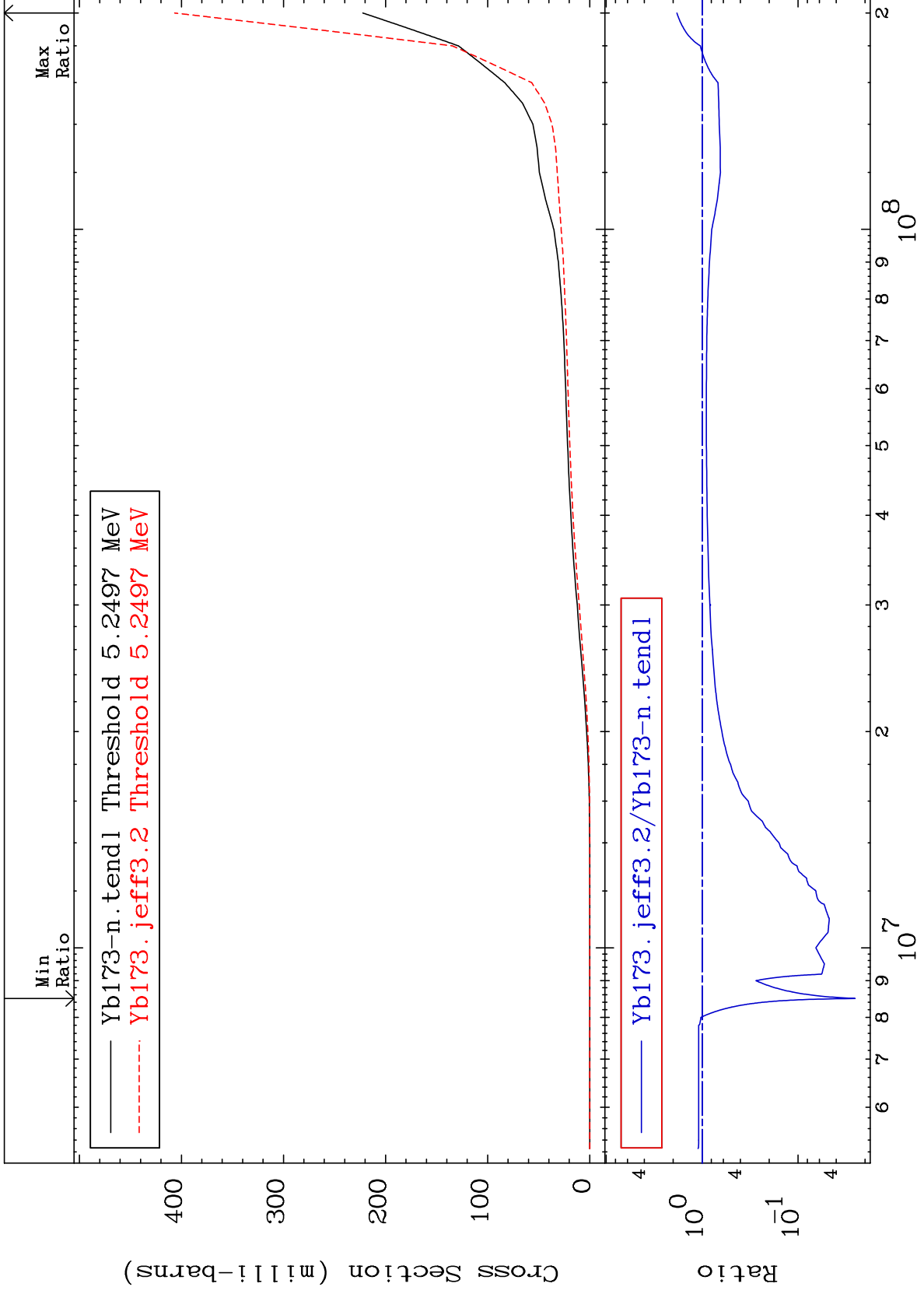
Incident Energy (eV)

70-Yb-173

MAT 7040

Tritium Production
Cross Section

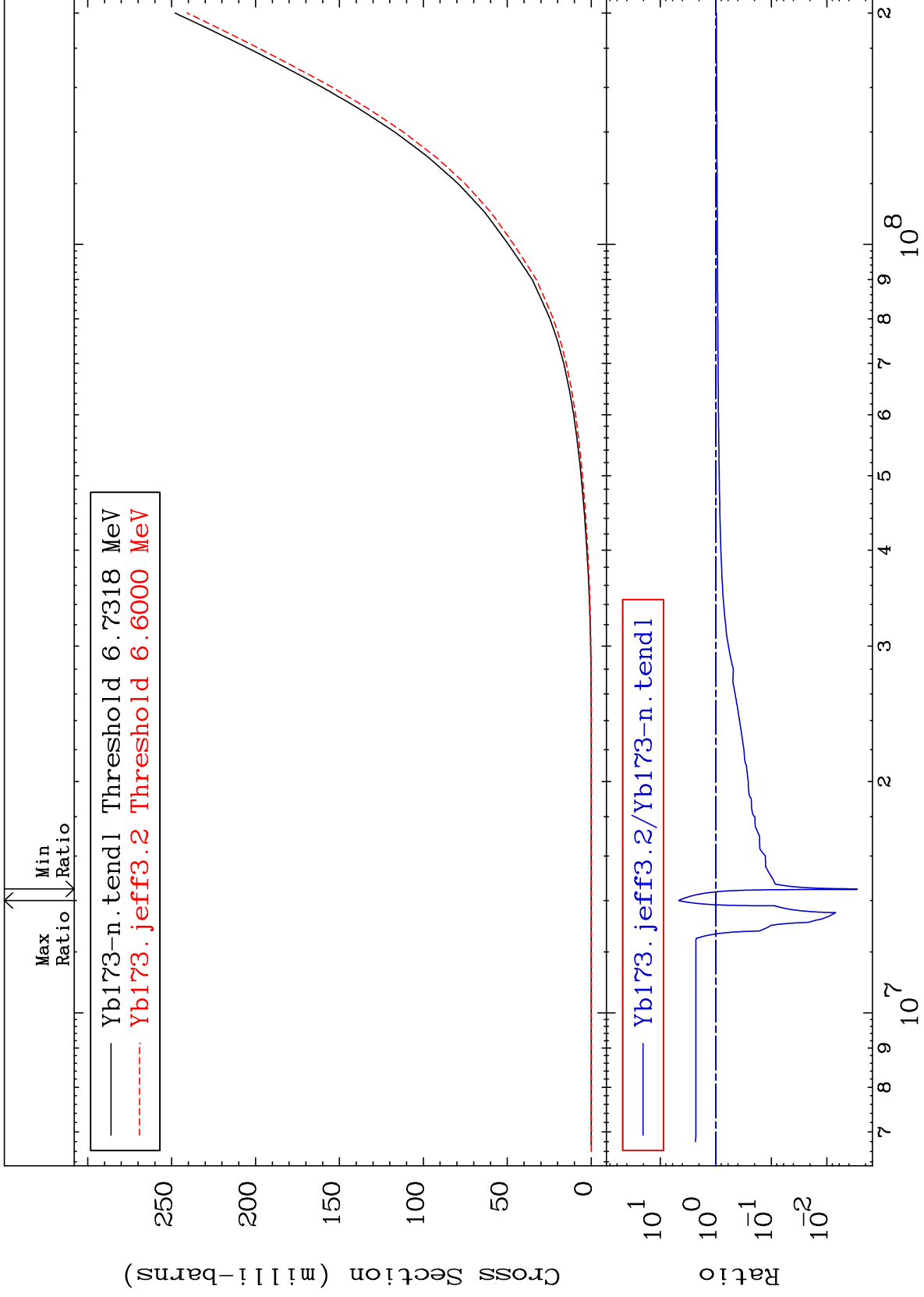
70-Yb-173
-97.45 To 83.00 %



MAT 7040

He-3 Production
Cross Section

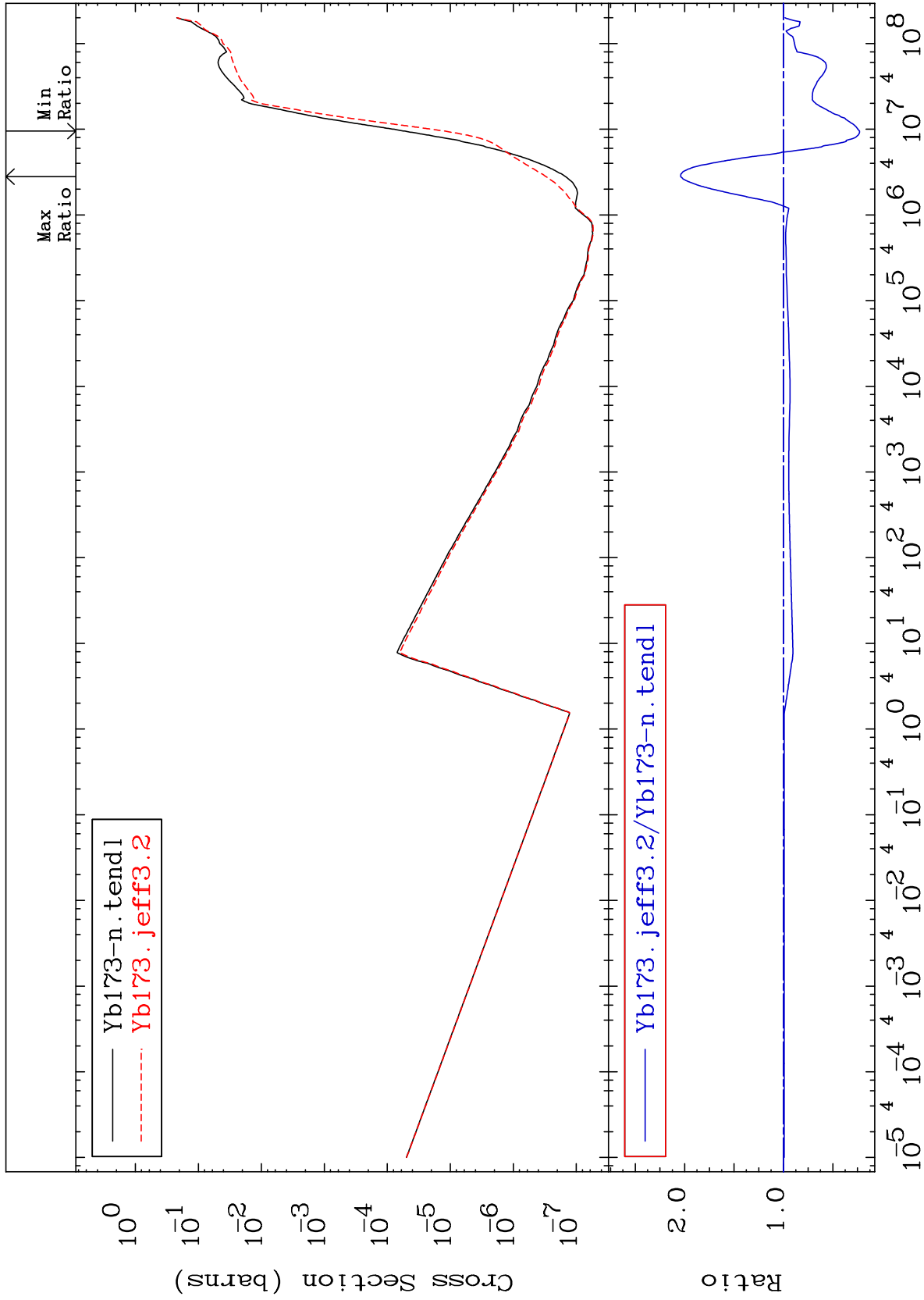
⁷⁰Yb-¹⁷³
-99.72 To 365.9 %



MAT 7040

He-4 Production
Cross Section

70-Yb-173
-77.04 To 103.9 %



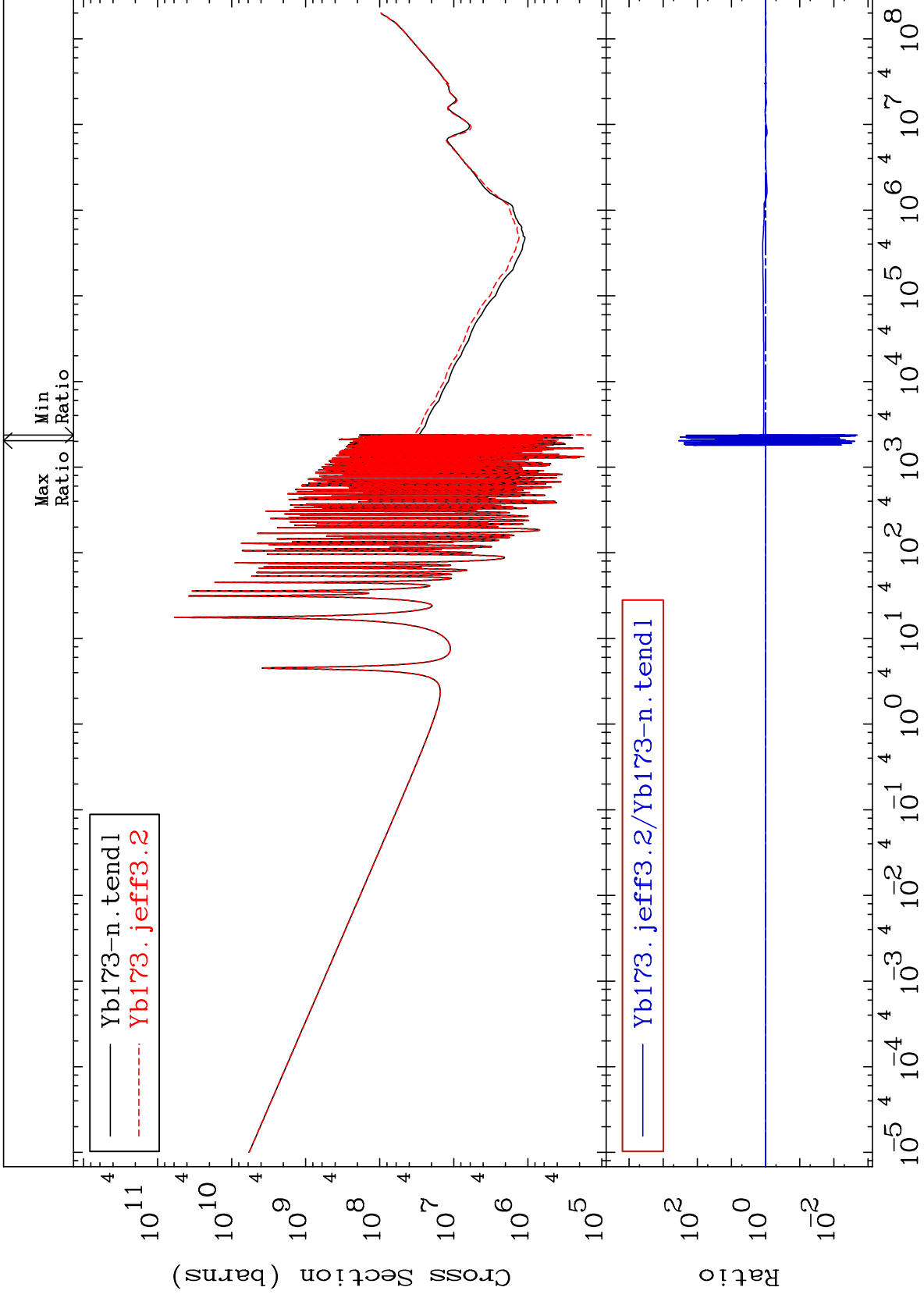
MAT 7040

Kerma total (eV-barns)

70-Yb-173

Cross Section

-99.79 To 9999. %



68

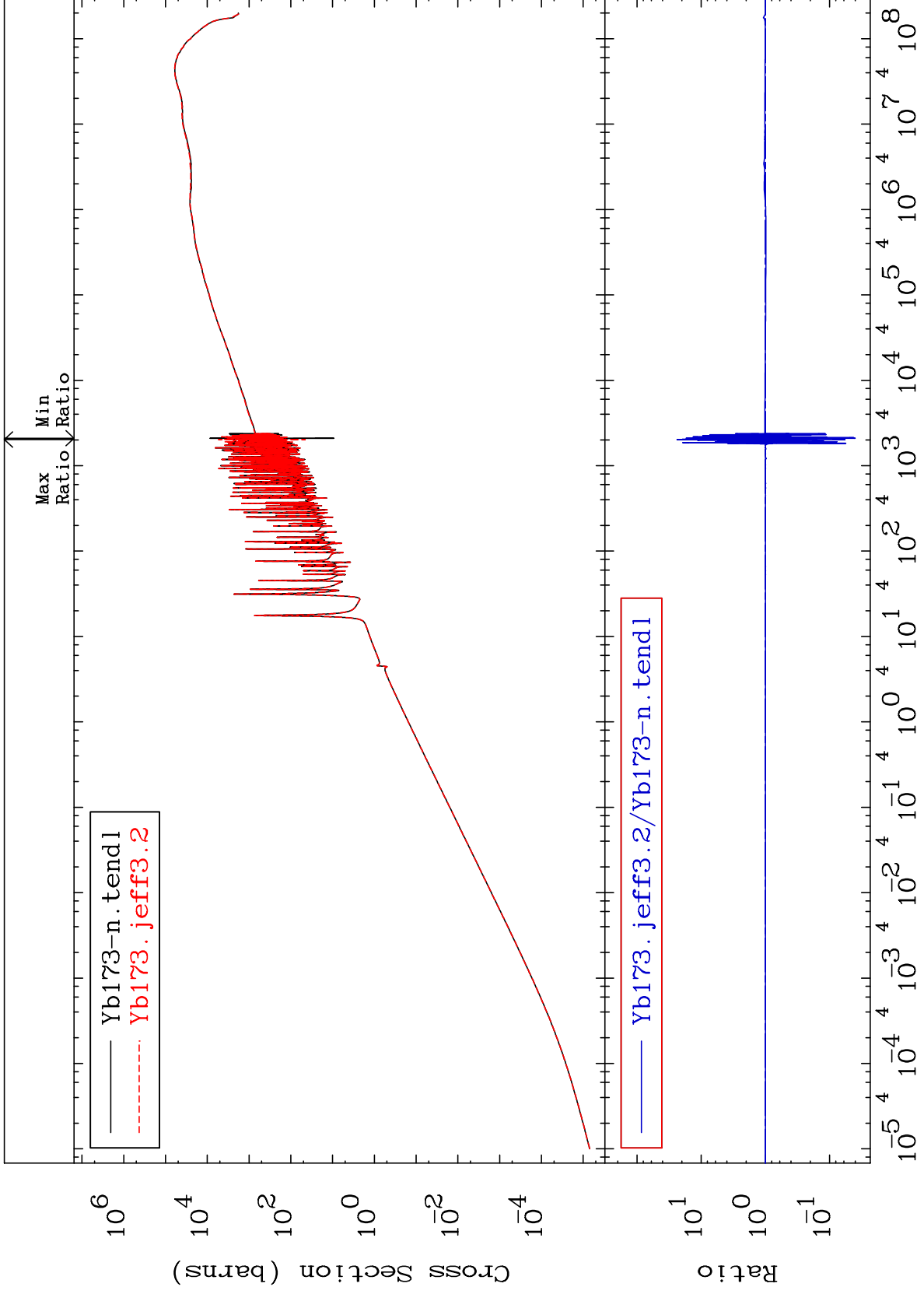
Incident Energy (eV)

70-Yb-173

MAT 7040

Kerma elastic
Cross Section

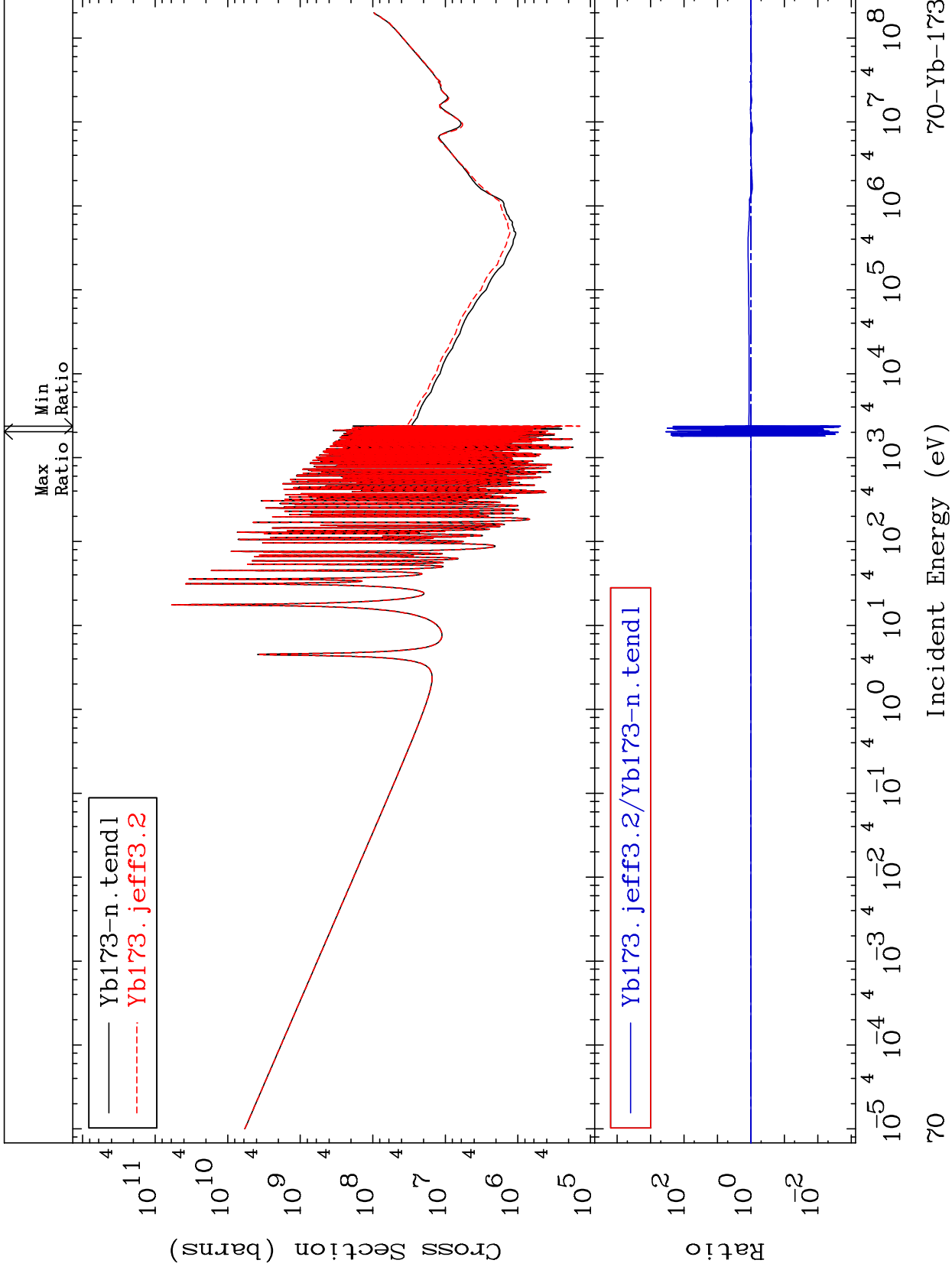
70-Yb-173
-95.98 To 2293. %



MAT 7040

Kerma non-elastic (all but mt2)
Cross Section

70-Yb-173
-99.79 To 9999. %



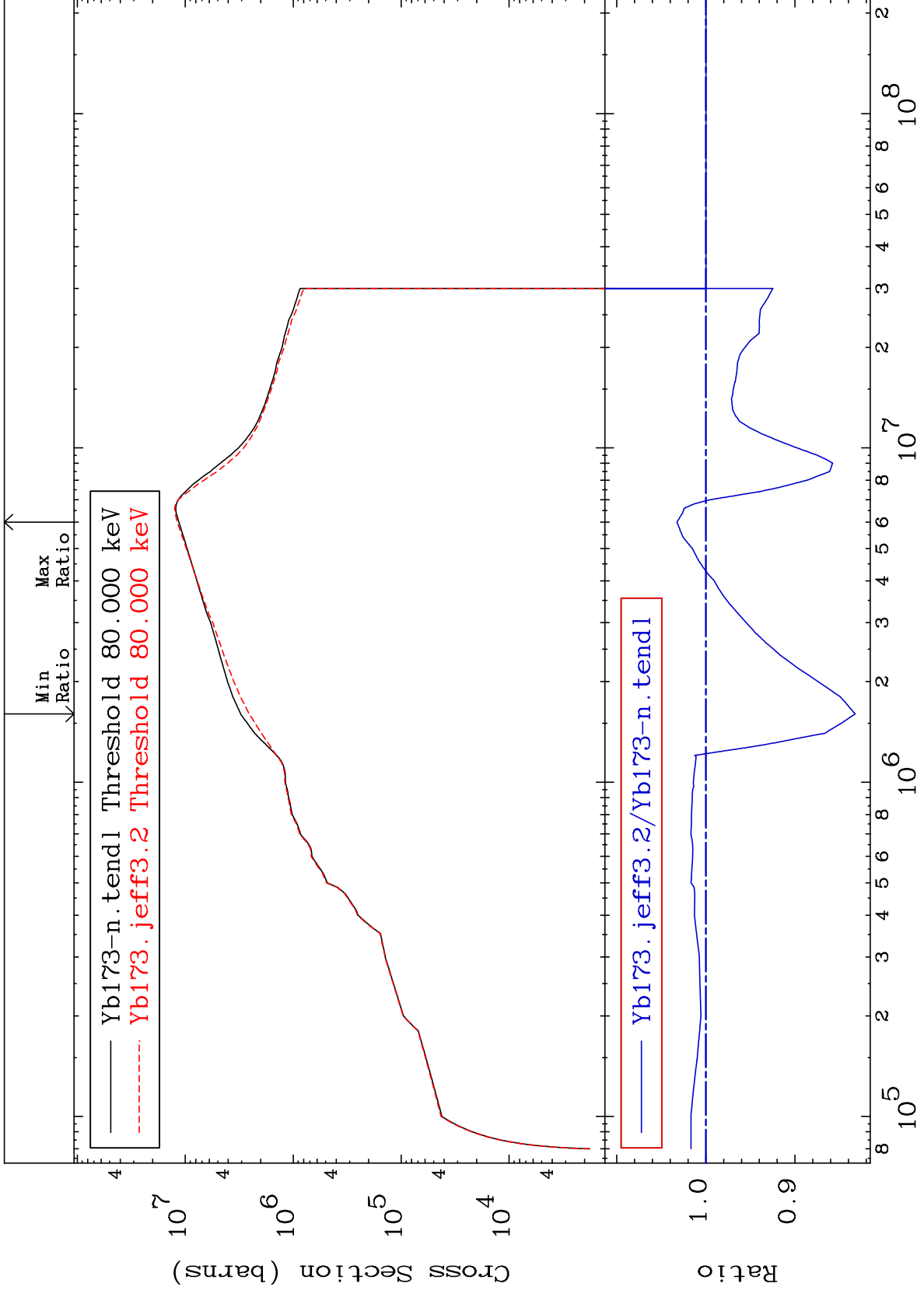
70

70-Yb-173

MAT 7040

Kerma inelastic (mt51-91)
Cross Section

70-Yb-173
-16.75 To 3.250 %



71

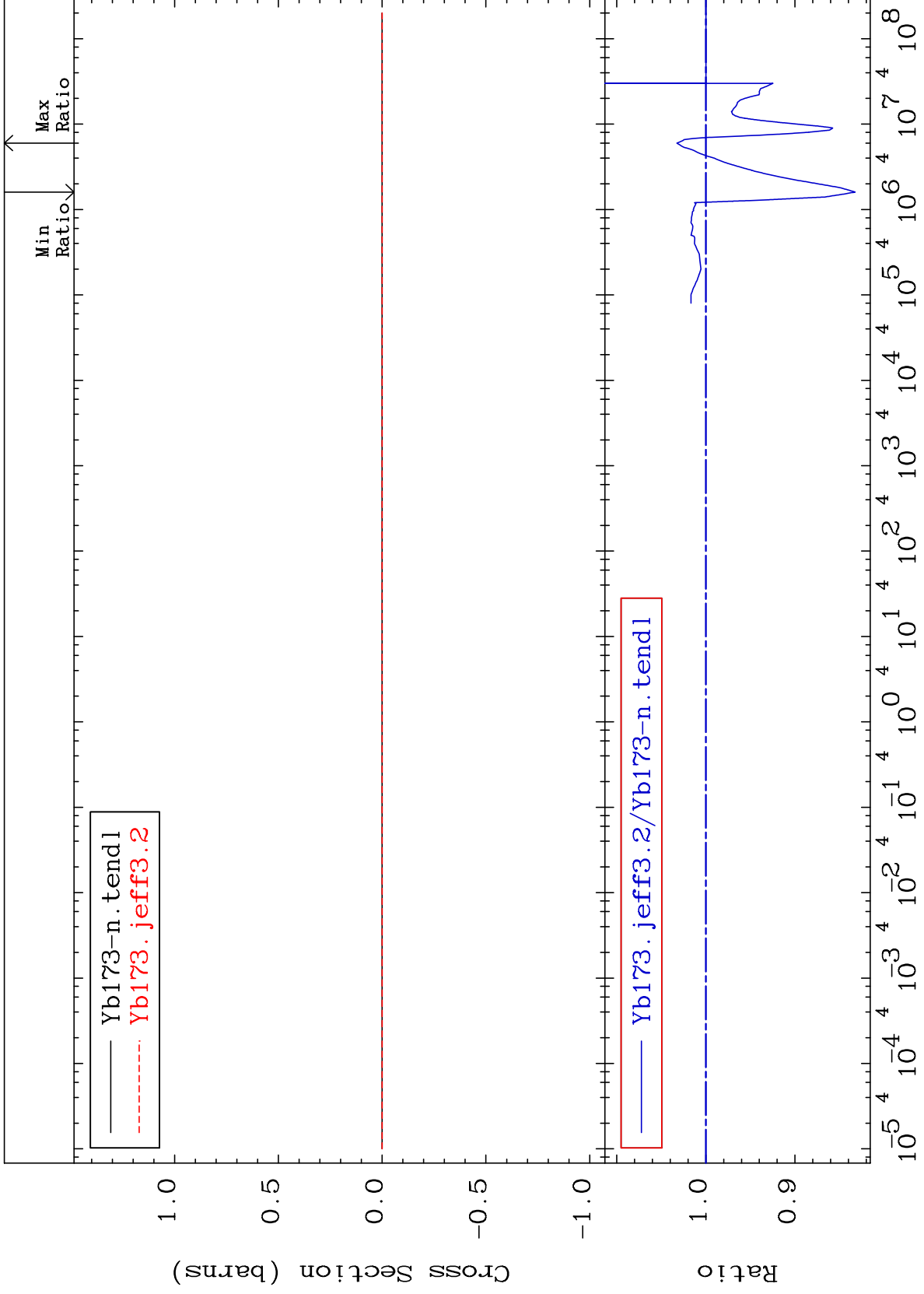
Incident Energy (eV)

70-Yb-173

MAT 7040

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

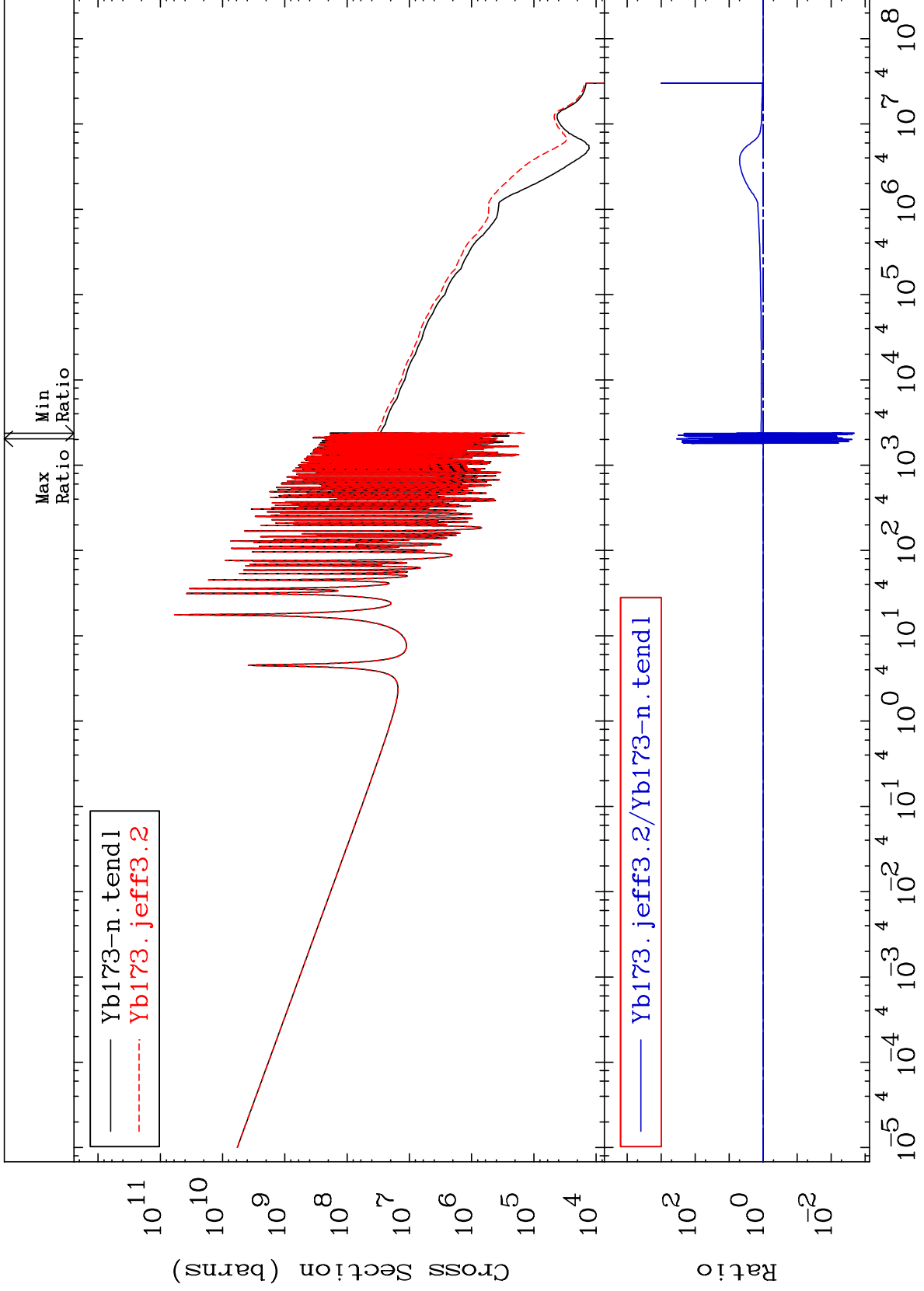
70-Yb-173
-16.75 To 3.250 %



MAT 7040

Kerma capture (mt102)
Cross Section

70-Yb-173
-99.79 To 9999. %



73

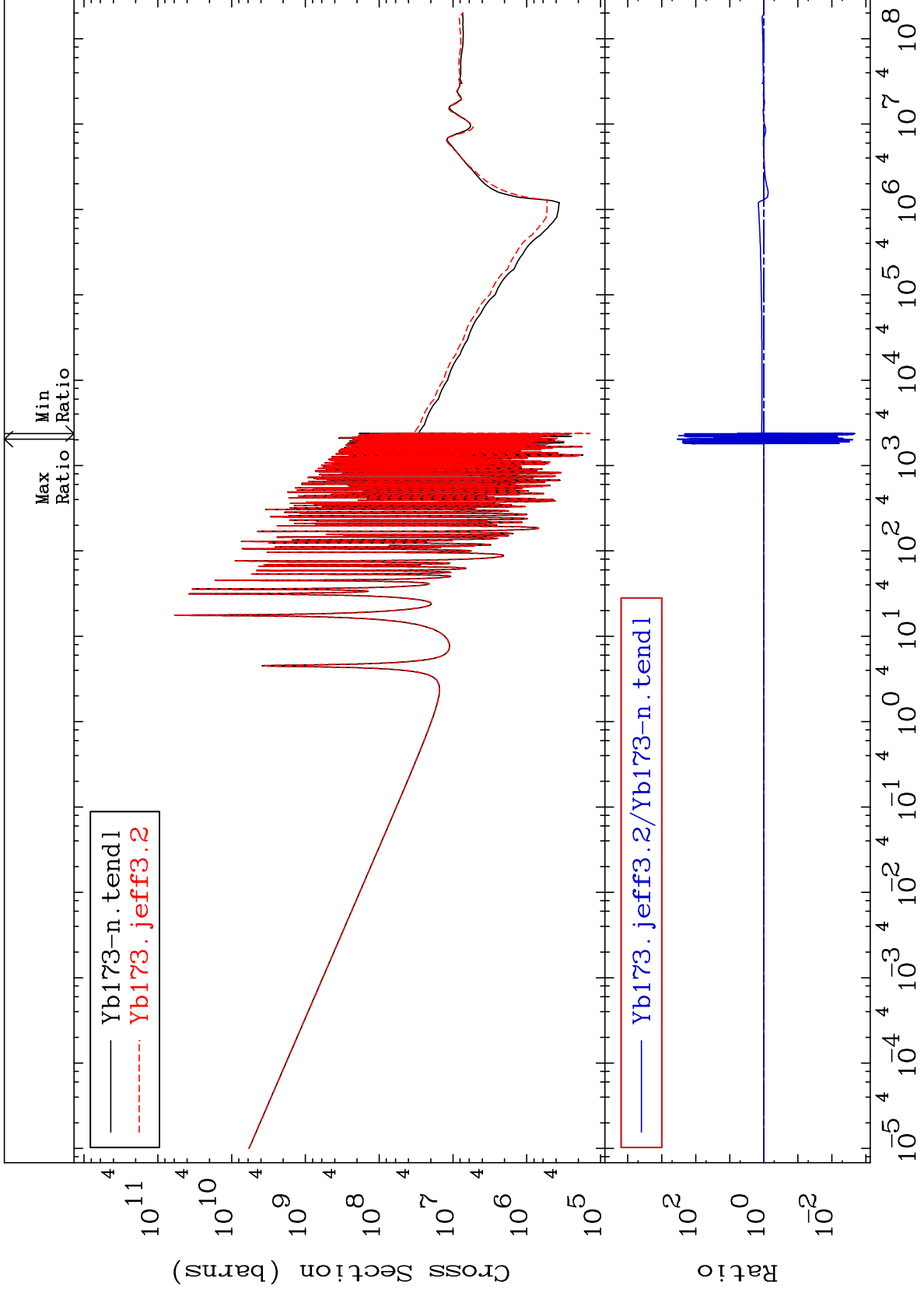
Incident Energy (eV)

70-Yb-173

MAT 7040

Total photon (eV-barns)
Cross Section

70-Yb-173
-99.79 To 9999. %



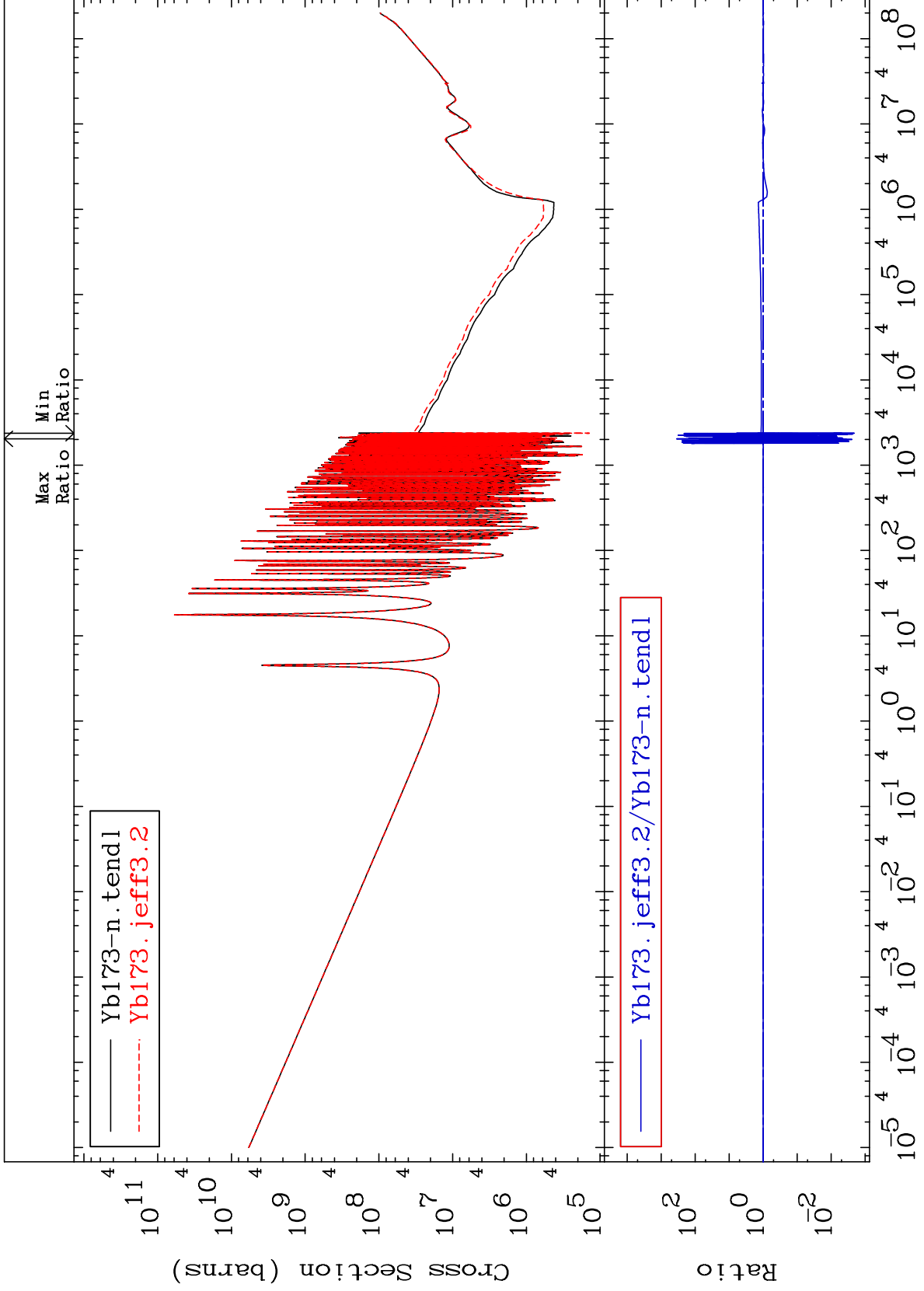
74

70-Yb-173

MAT 7040

Total kinematic kerma (high limit)
Cross Section

70-Yb-173
-99.79 To 9999. %



75

Incident Energy (eV)

70-Yb-173

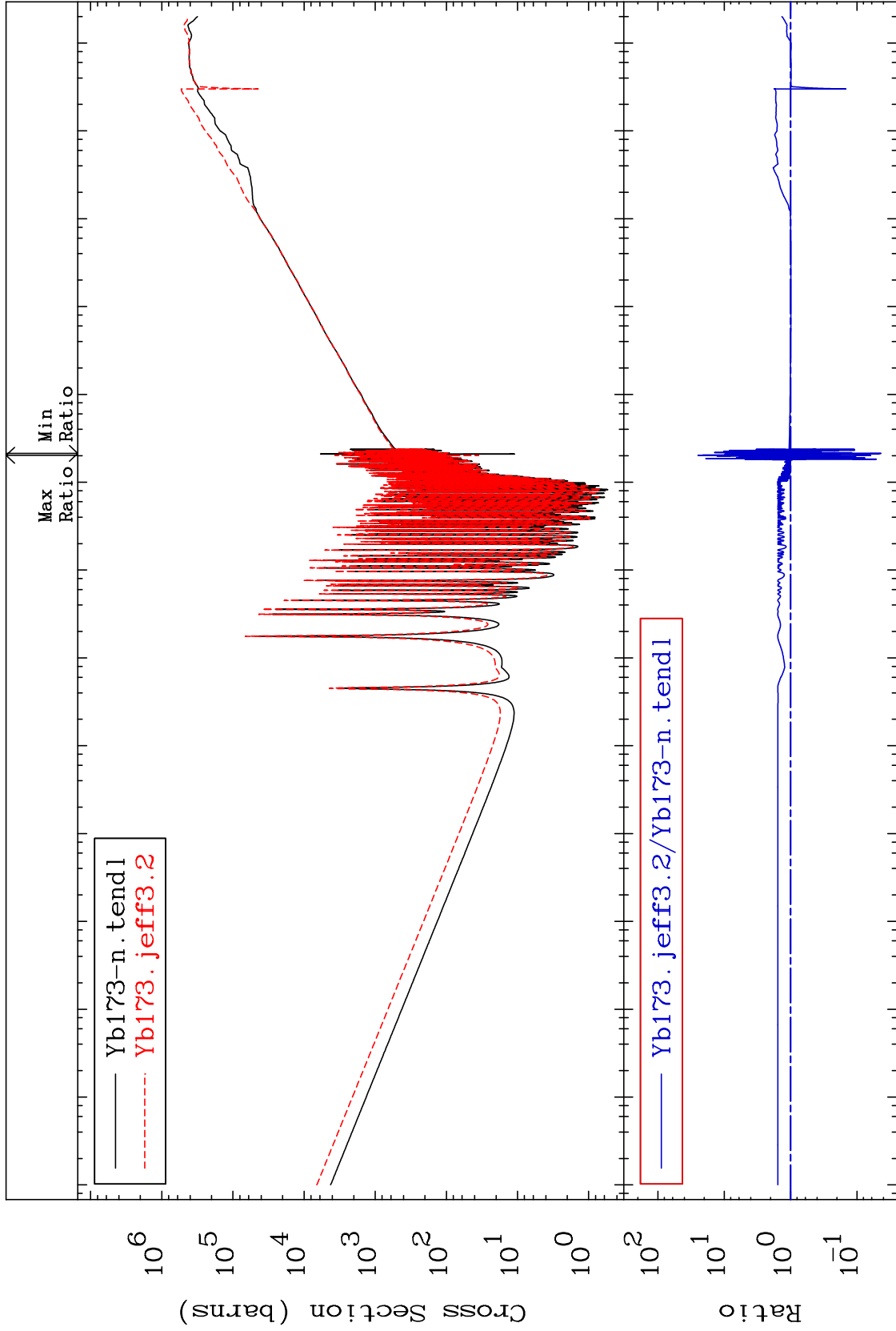
MAT 7040

Dpa total (eV-barns)

70-Yb-173

-95.67 To 2398. %

Cross Section



76

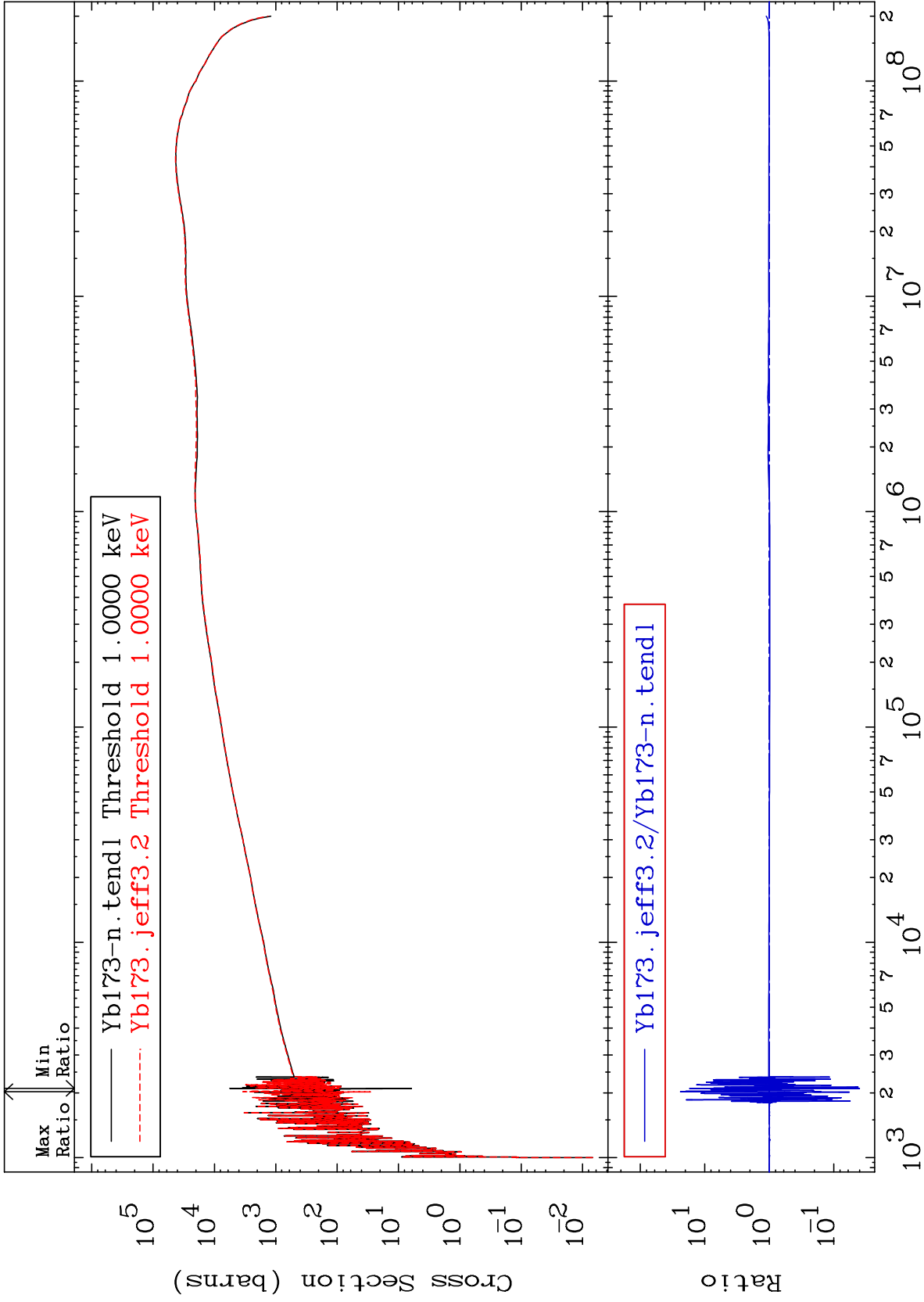
Incident Energy (eV)

70-Yb-173

MAT 7040

Dpa elastic (mt2)
Cross Section

70-Yb-173
-95.98 To 2293. %



77

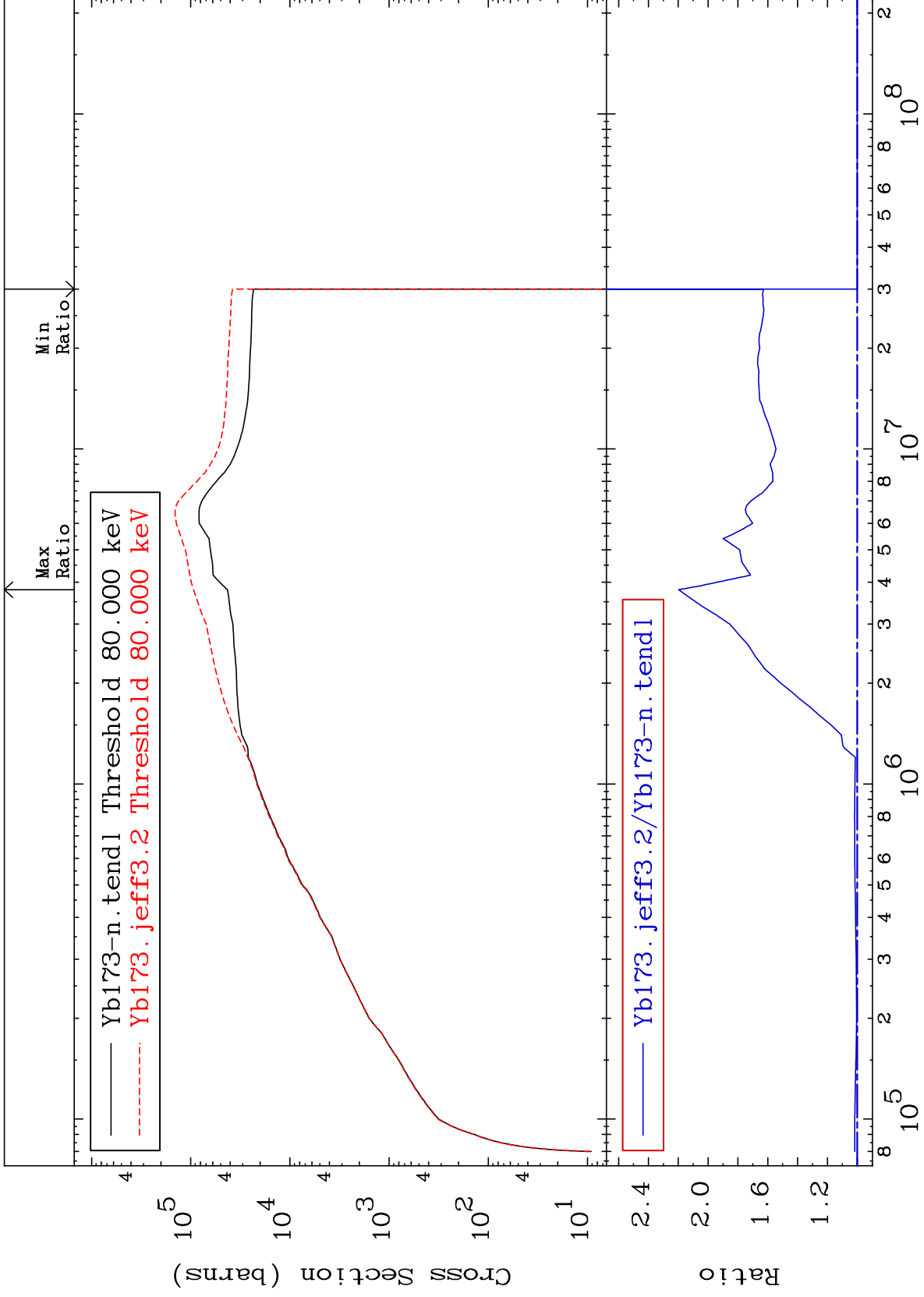
Incident Energy (eV)

70-Yb-173

MAT 7040

Dpa inelastic (mt51-91)
Cross Section

70-Yb-173
To 119.8 %
0.000



78

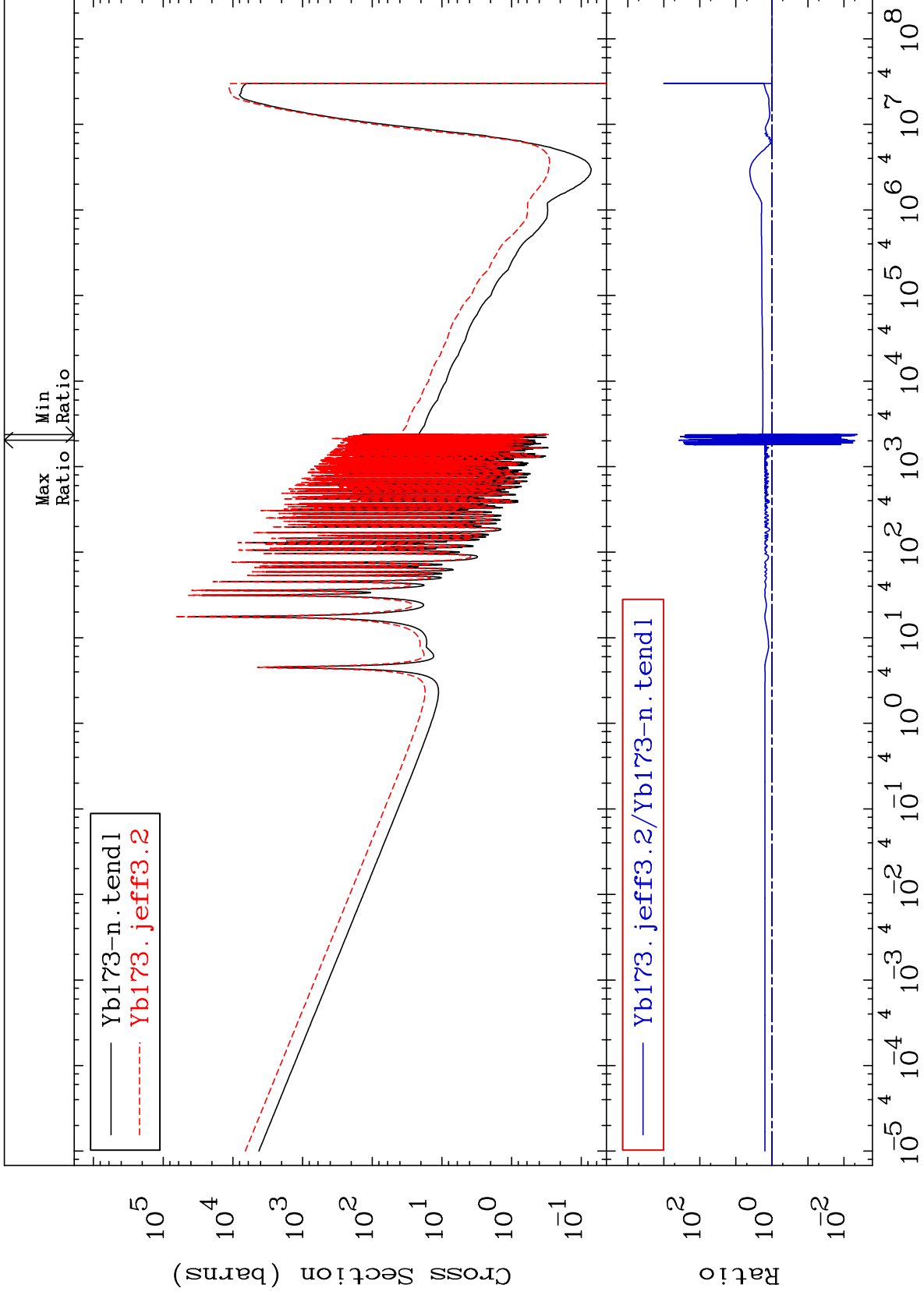
Incident Energy (eV)

70-Yb-173

MAT 7040

Dpa disappearance (mt102 -120)
Cross Section

70-Yb-173
-99.57 To 9999. %



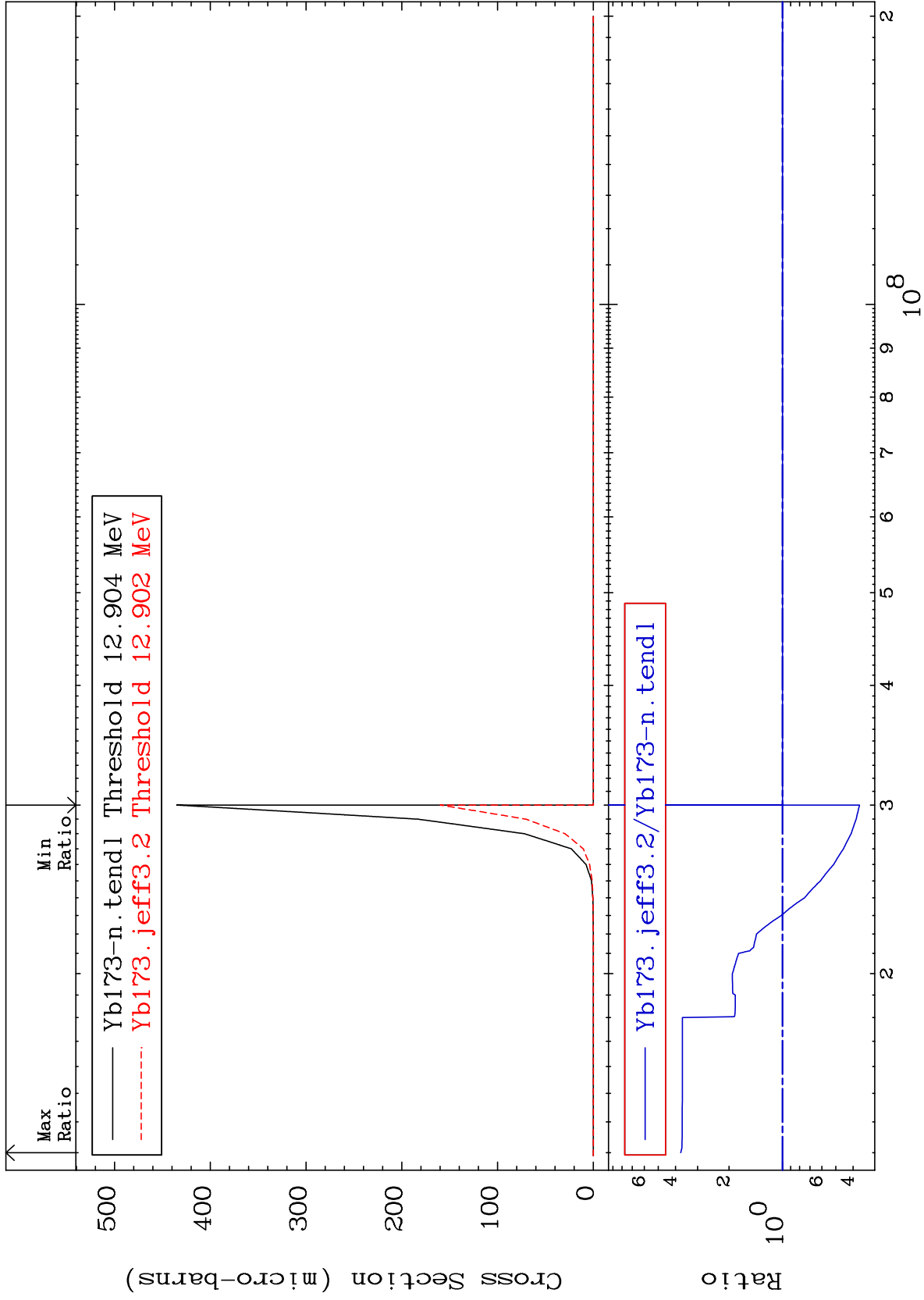
79

Incident Energy (eV)

70-Yb-173

MAT 7040

(n,3n) α : 68-Er-167g 70-Yb-173
Radionuclide Production Cross Section -63.21 To 273.5 %



80

Incident Energy (eV)

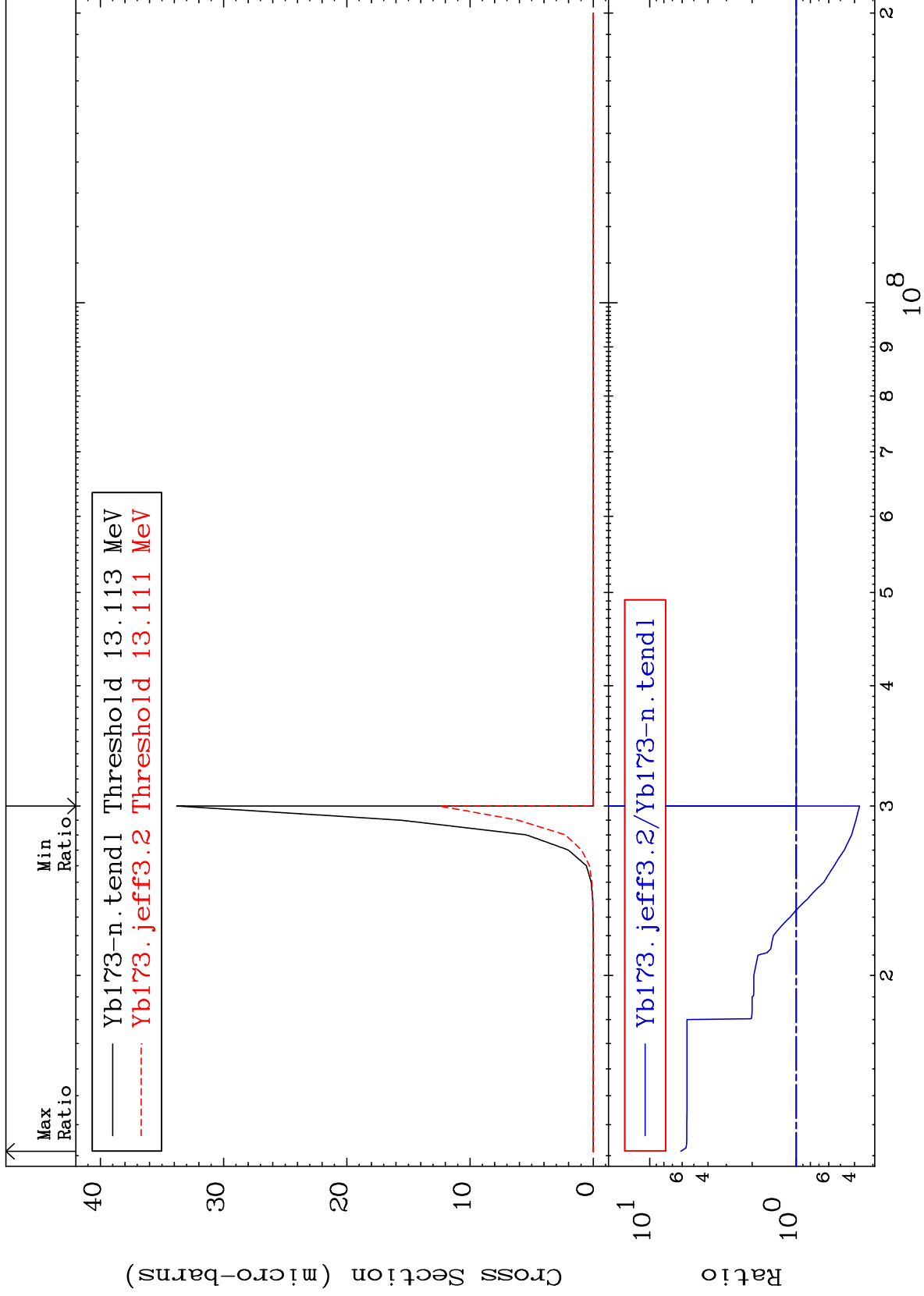
70-Yb-173

MAT 7040

(n,3n) α : 68-Er-167m3

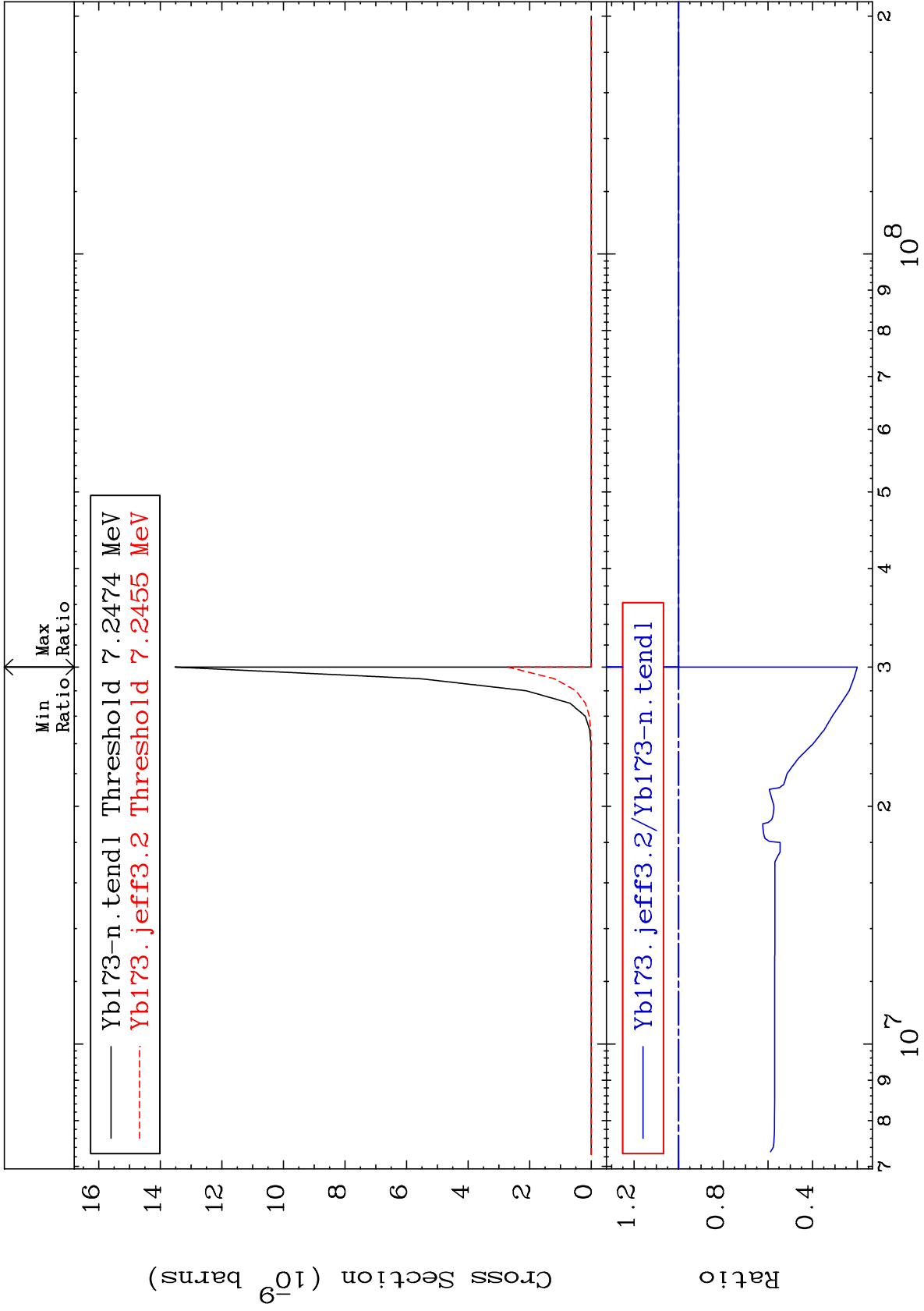
70-Yb-173

Radionuclide Production Cross Section -63.05 To 513.5 %



MAT 7040

(n, n') p α : 67-Ho-168g 70-Yb-173
Radionuclide Production Cross Section -80.00 To 0.000 %



MAT 7040

(n, n') p α :67-Ho-168m1

70-Yb-173

Radionuclide Production Cross Section -75.09 To 0.000 %

