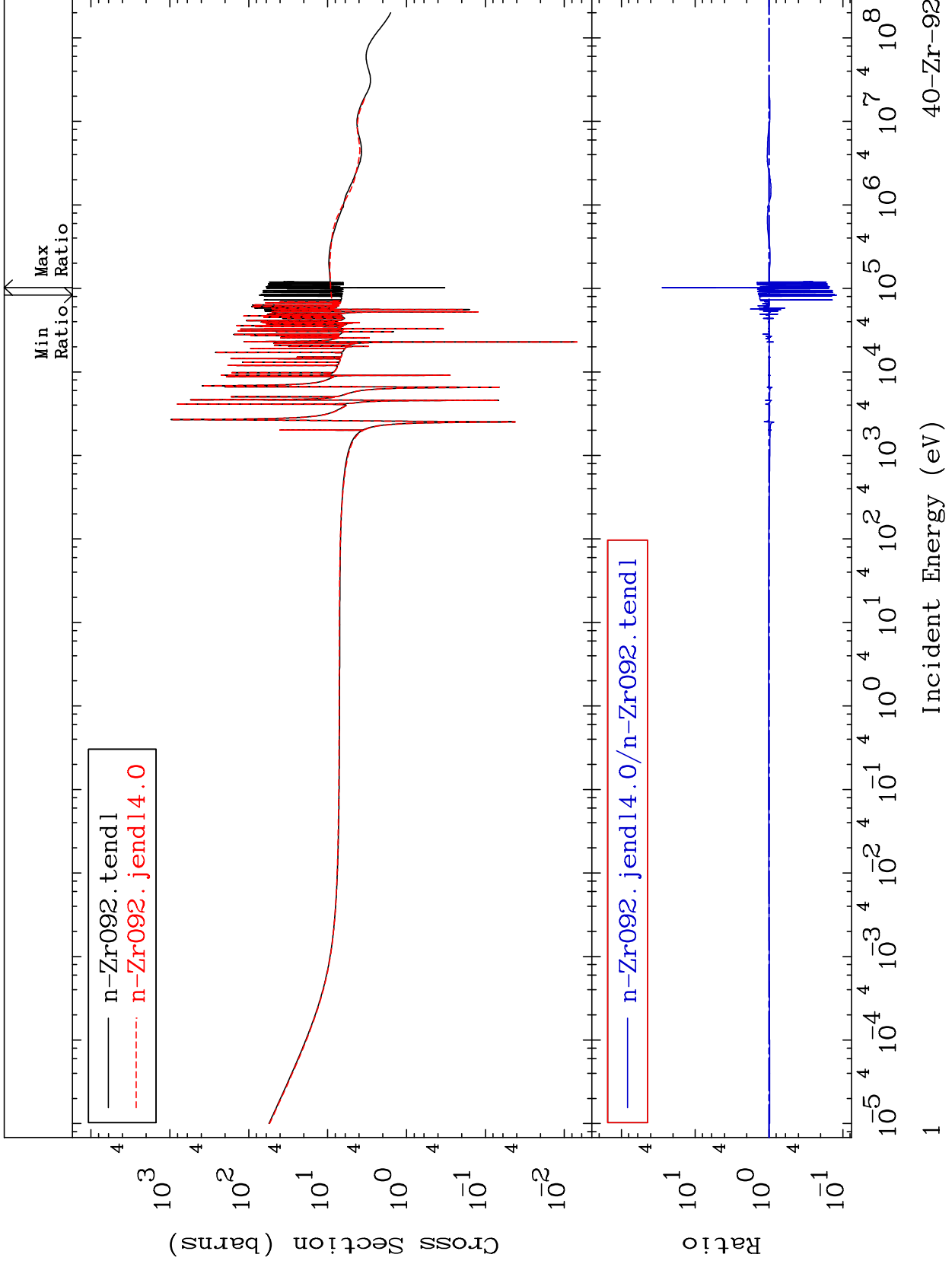


MAT 4031

Total
Cross Section

40-Zr-92
-87.86 To 2690. %



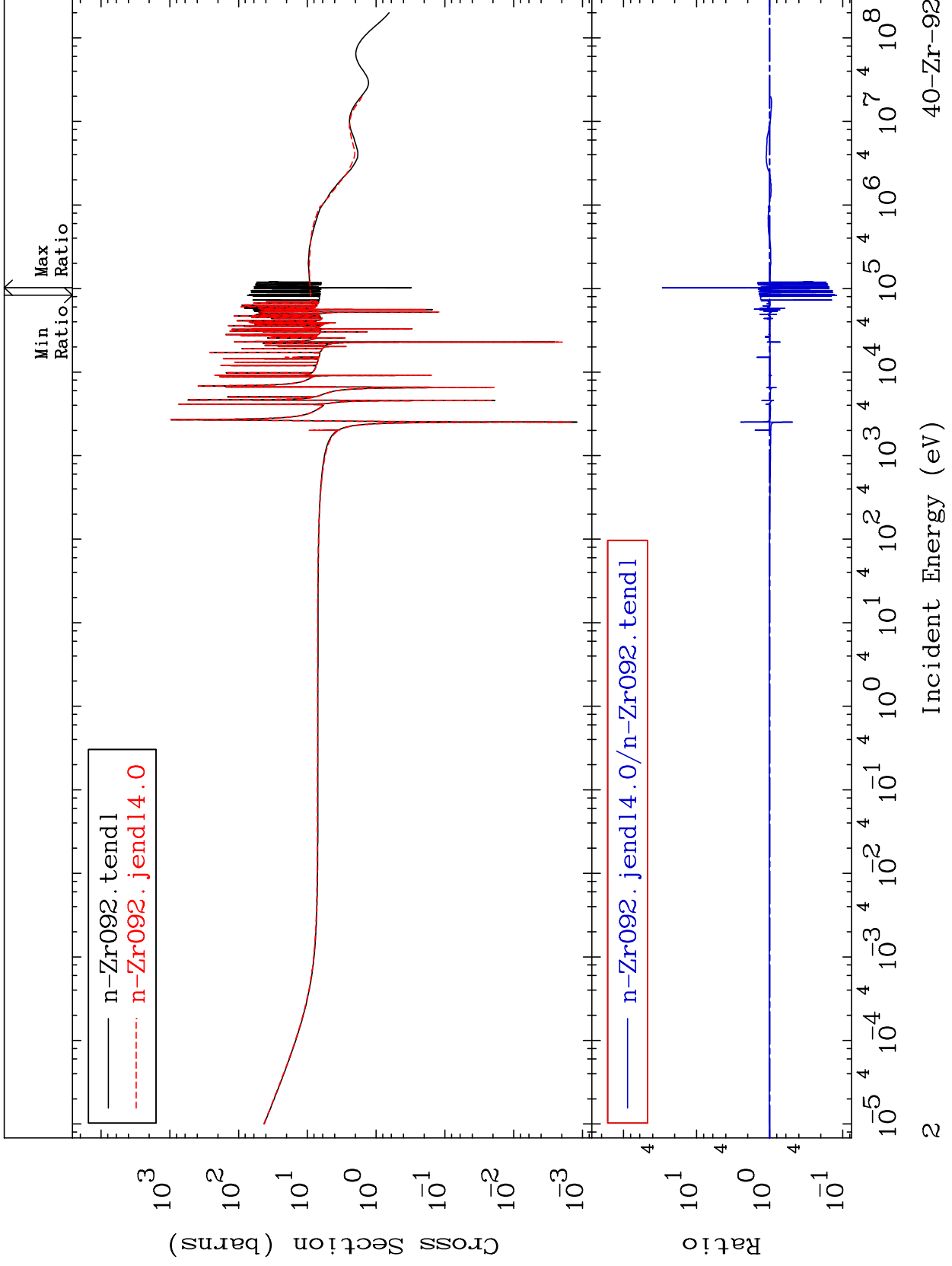
40-Zr-92

Incident Energy (eV)

MAT 4031

Elastic
Cross Section

40-Zr-92
-87.86 To 2850. %



40-Zr-92

Incident Energy (eV)

2

MAT 4031

40-Zr-92

Inelastic
Cross Section

-21.56 To 33.79 %

Min
Ratio

Max
Ratio

— n-Zr092.tendl Threshold 944.77 keV
- - - n-Zr092.jendl4.0 Threshold 944.77 keV

Cross Section (barns)

— n-Zr092.jendl4.0/n-Zr092.tendl

Ratio

10⁶

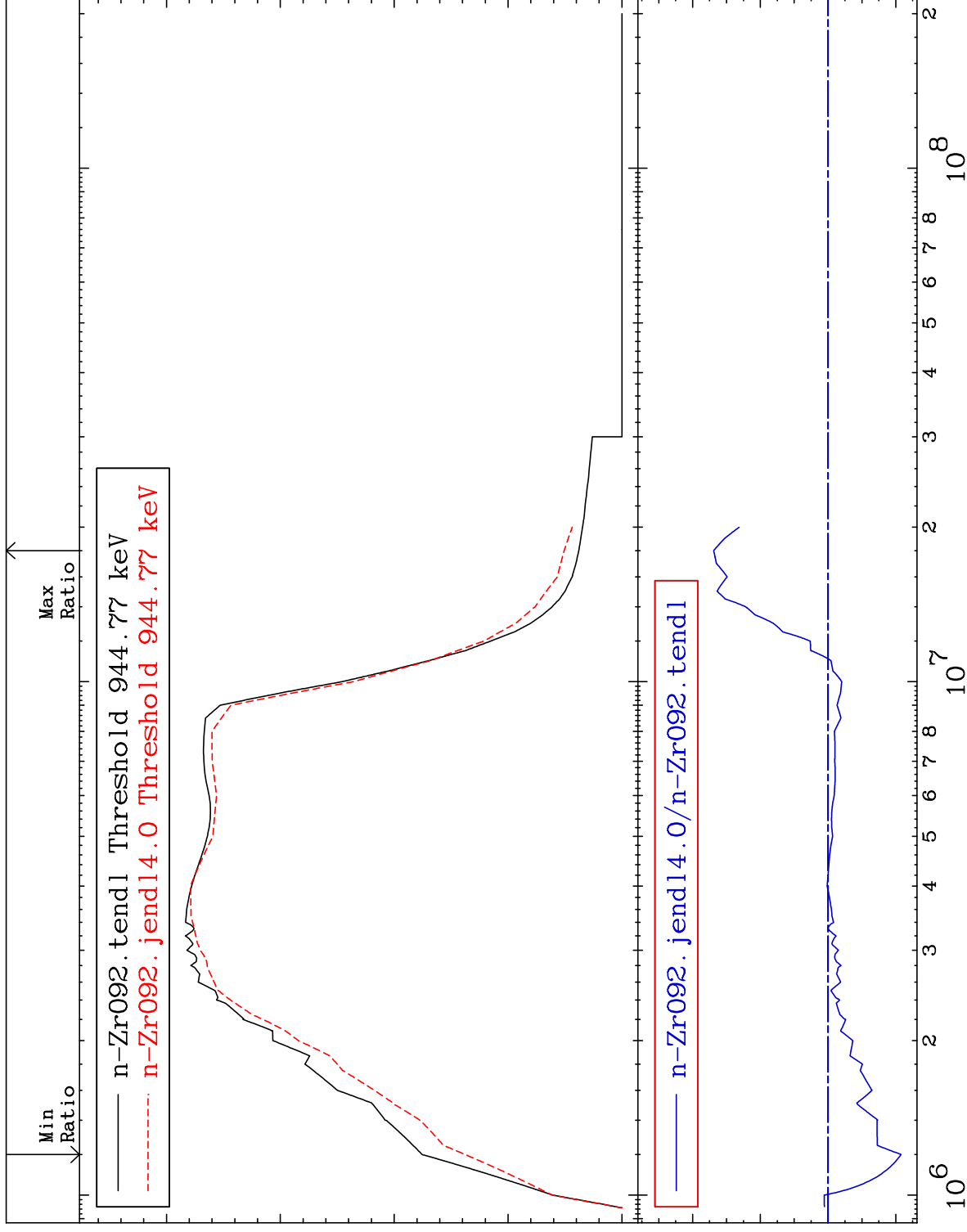
10⁷

10⁸

Incident Energy (eV)

40-Zr-92

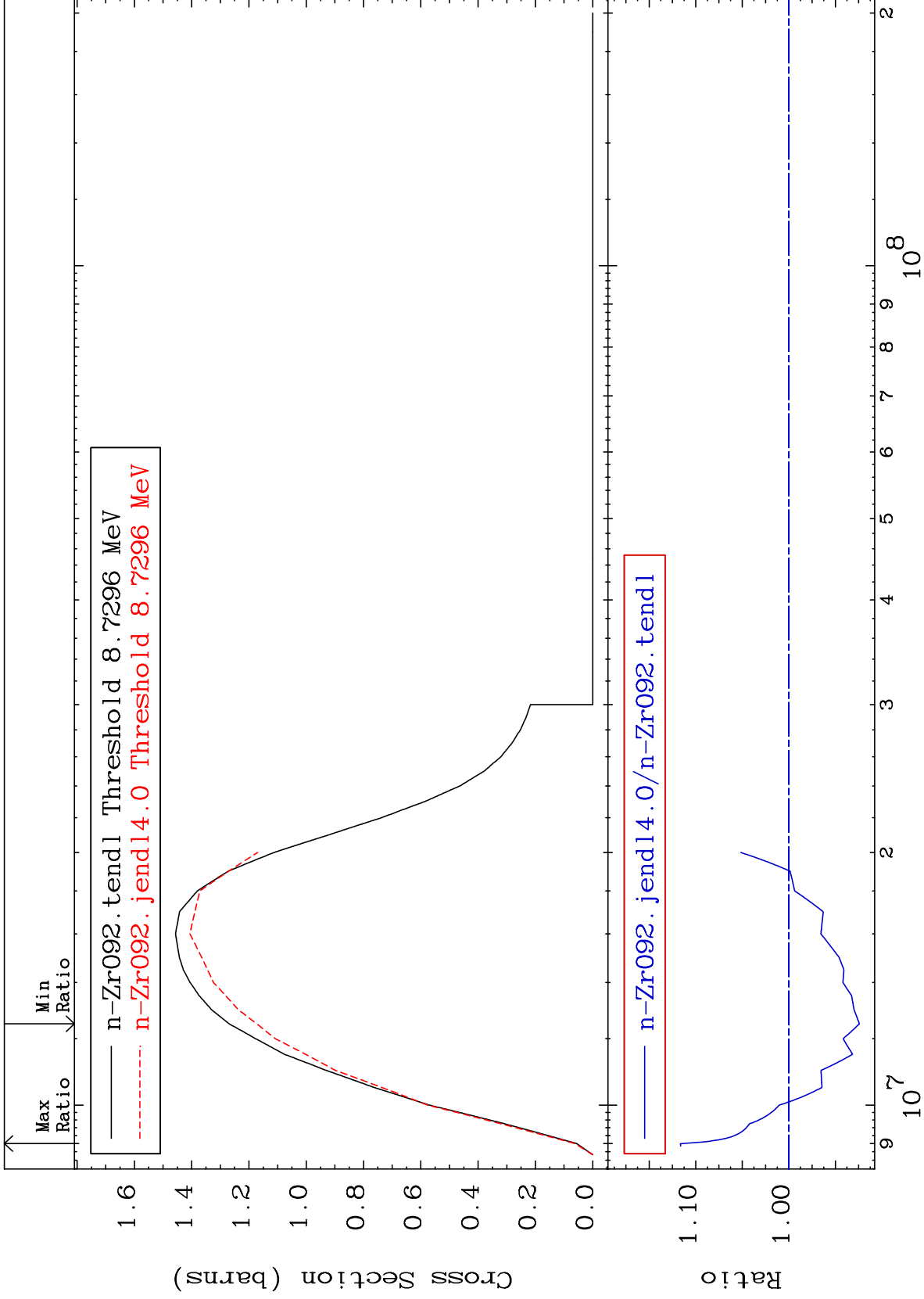
3



MAT 4031

(n,2n)
Cross Section

40-Zr-92
-7.585 To 11.65 %



4

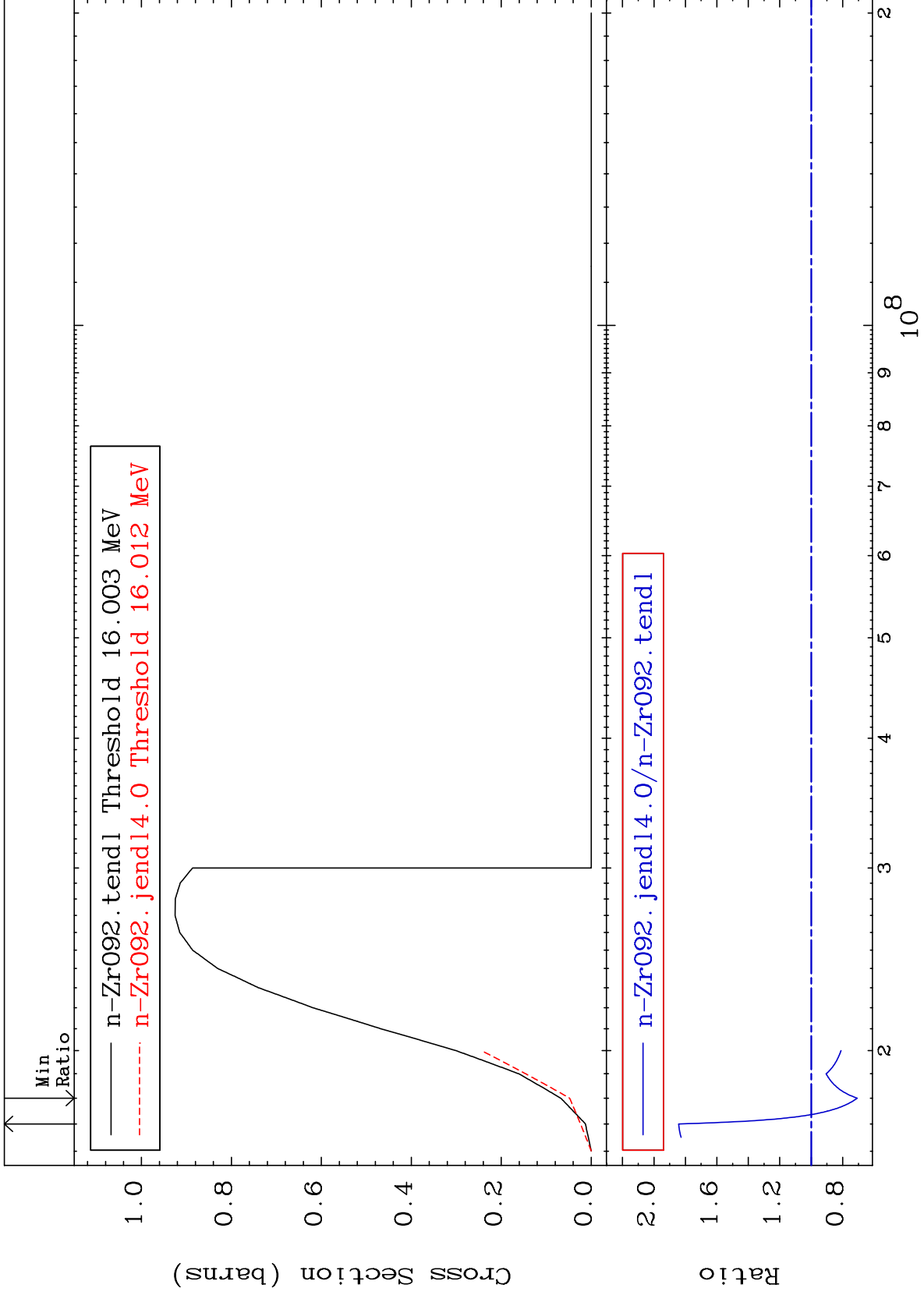
Incident Energy (eV)

40-Zr-92

MAT 4031

(n,3n)
Cross Section

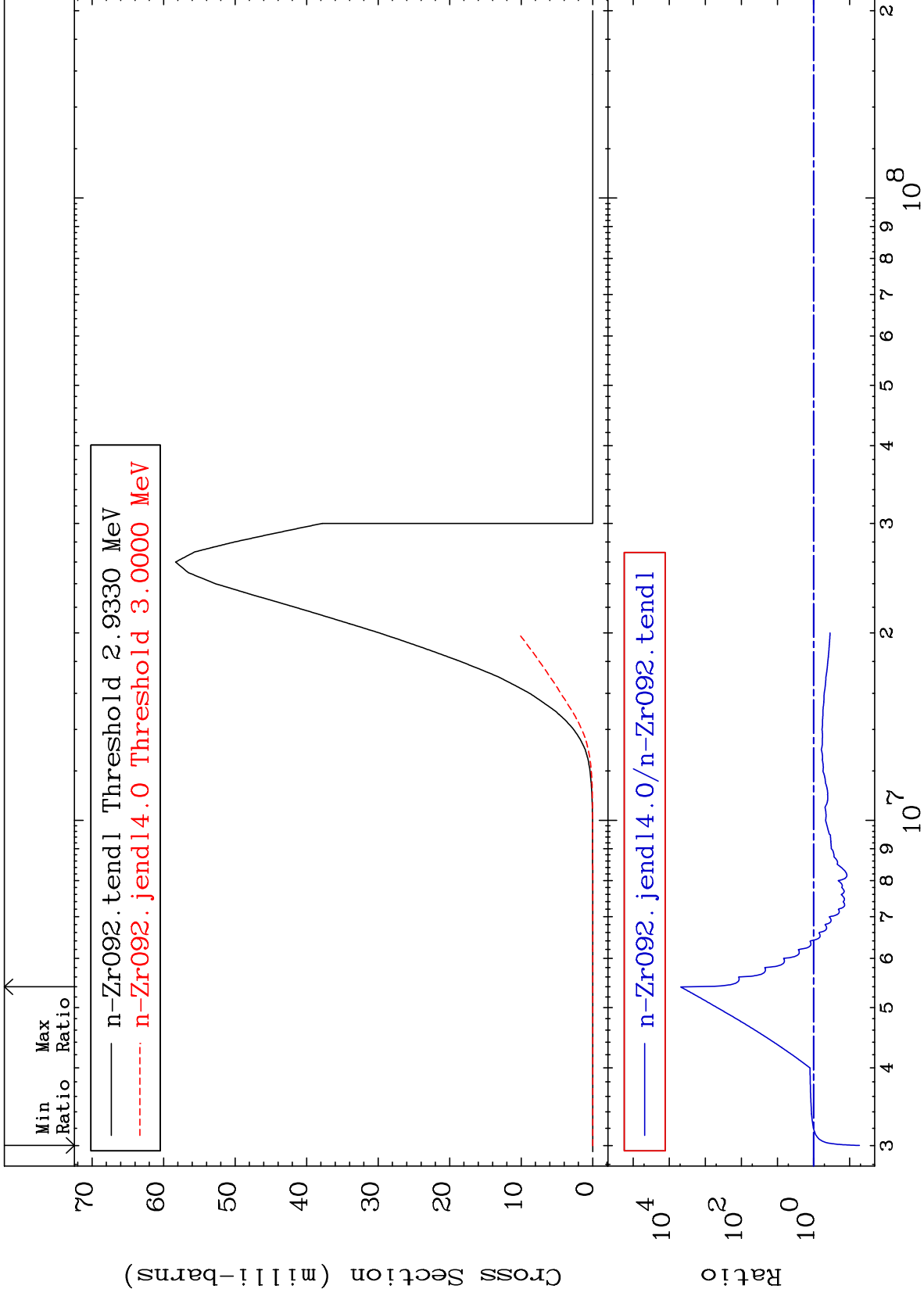
40-Zr-92
-29.27 To 84.31 %



MAT 4031

(n, n') α
Cross Section

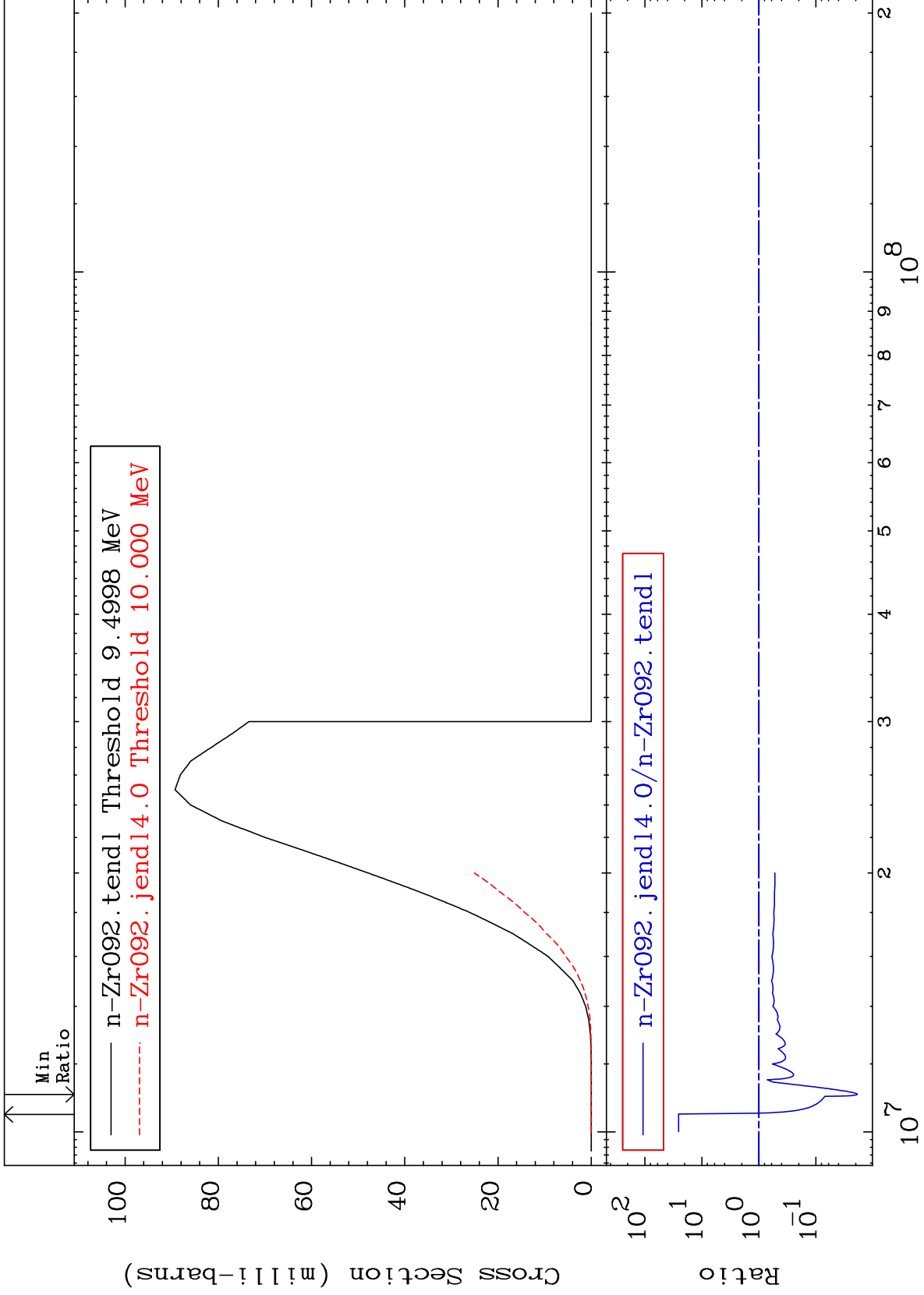
40-Zr-92
-94.64 To 9999. %



MAT 4031

(n, n') p
Cross Section

40-Zr-92
-98.11 To 2454. %



7

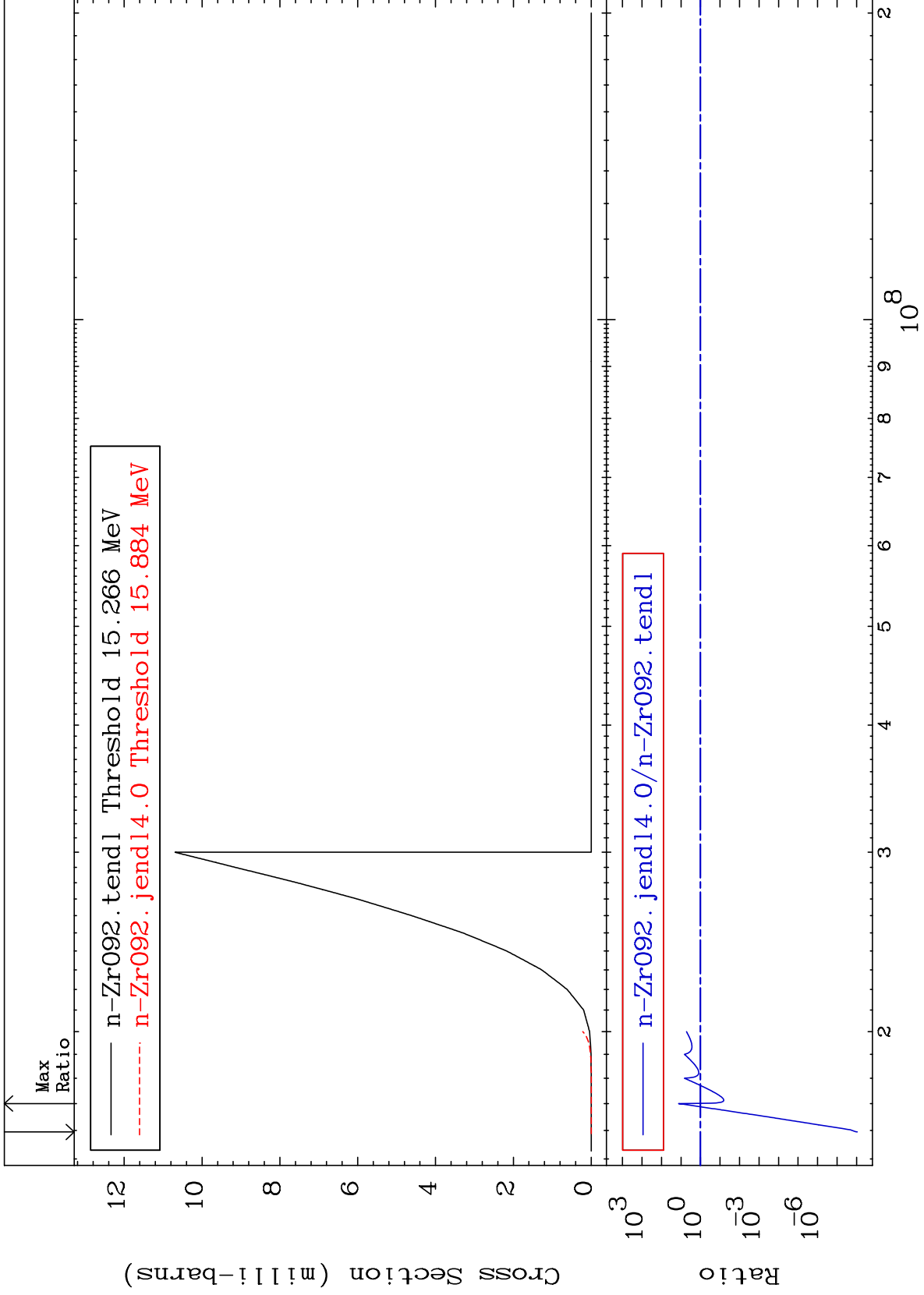
Incident Energy (eV)

40-Zr-92

MAT 4031

(n,n') d
Cross Section

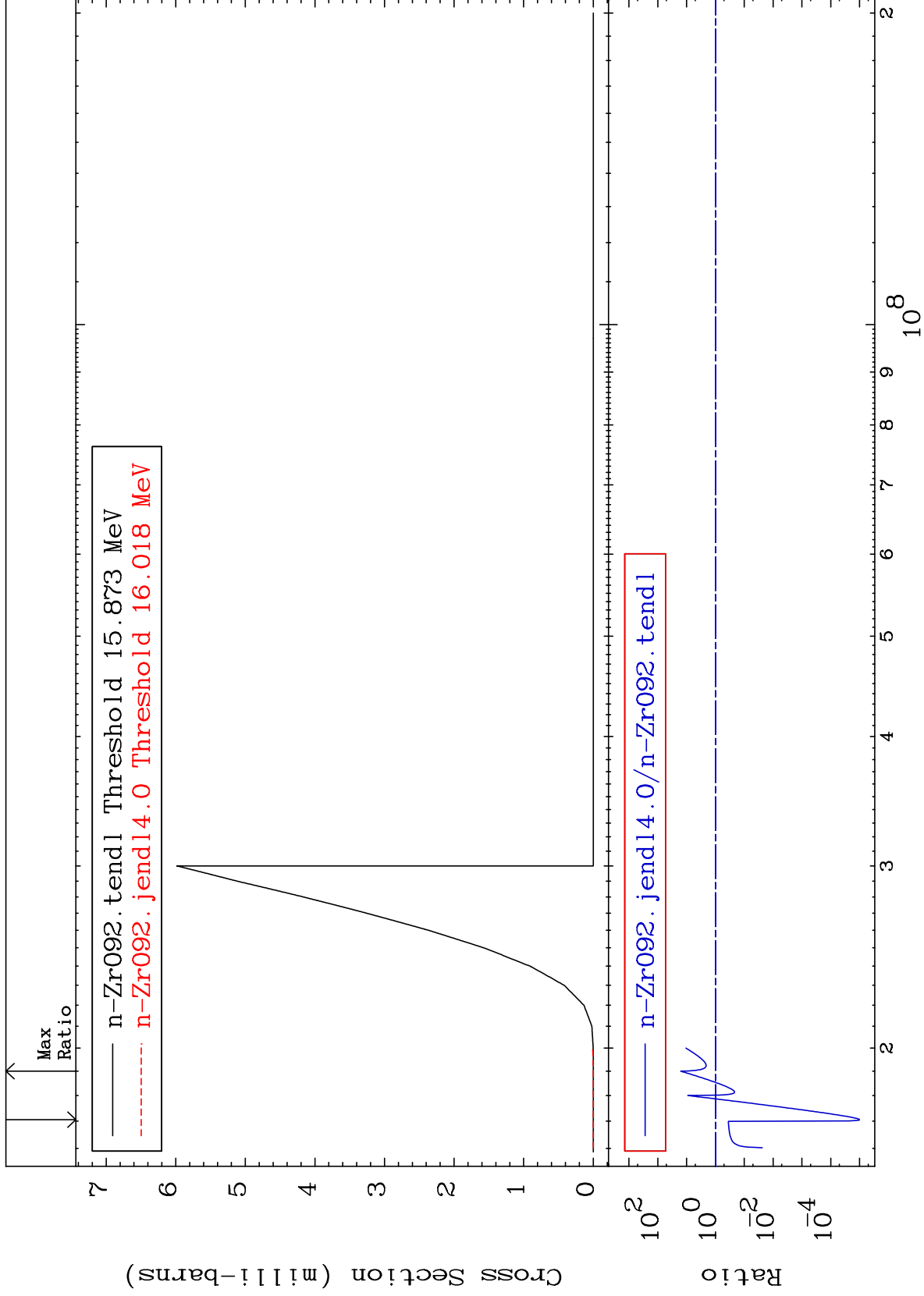
40-Zr-92
-100.0 To 1220. %



MAT 4031

(n,n') t
Cross Section

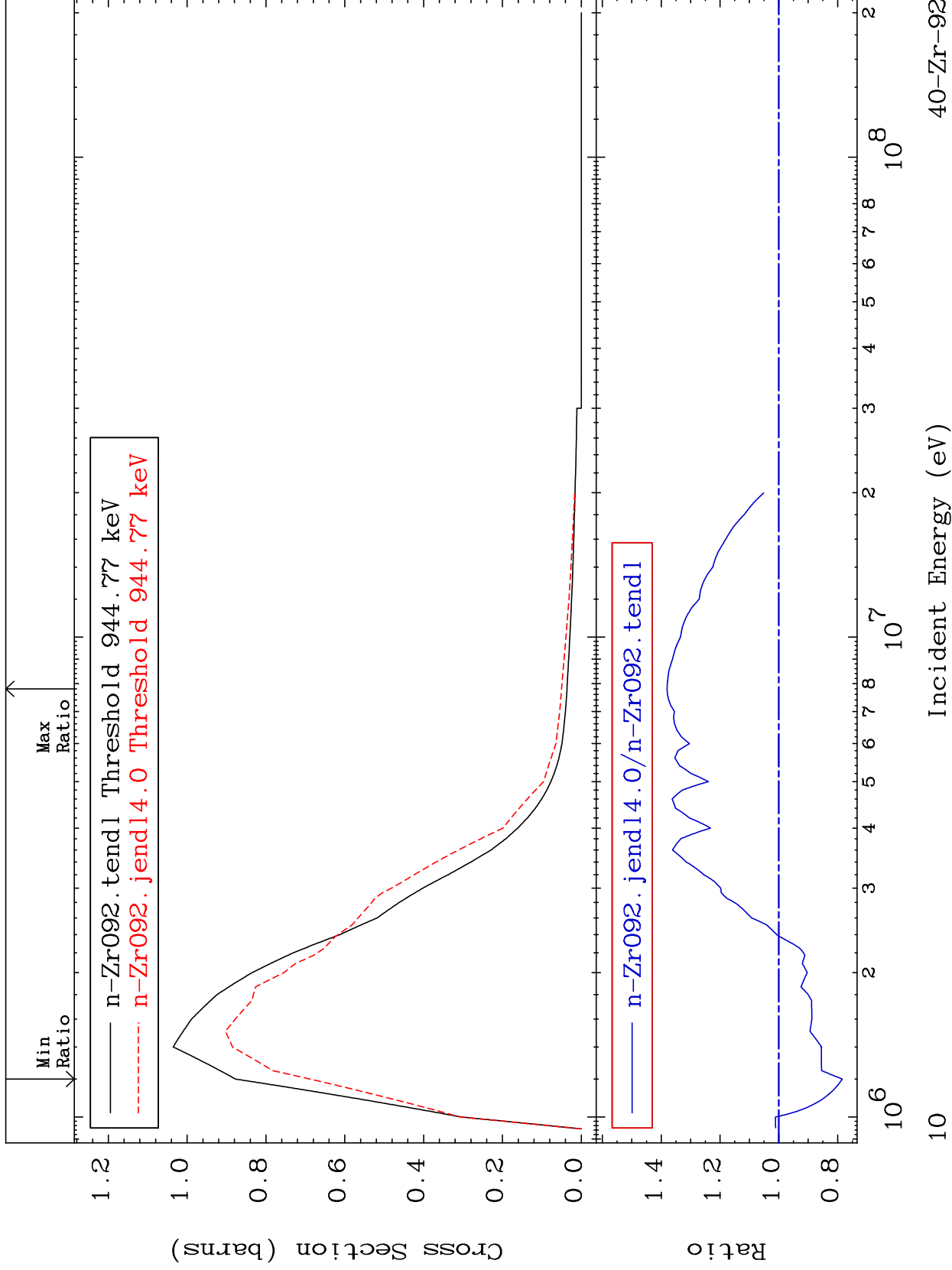
40-Zr-92
-100.0 To 1491. %



MAT 4031

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

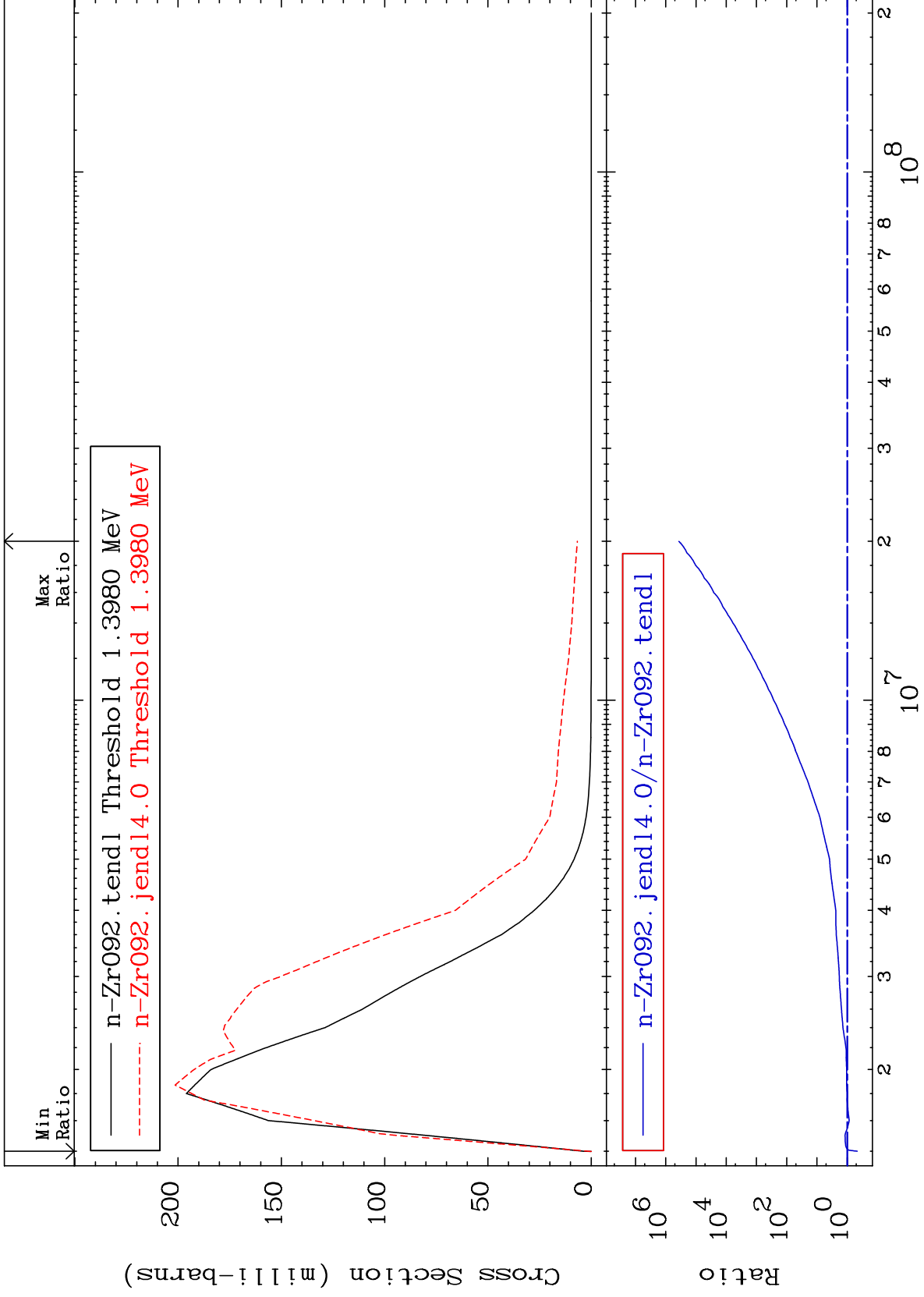
40-Zr-92
-21.56 To 38.02 %



MAT 4031

MT= 52 (n, n') Level
Cross Section

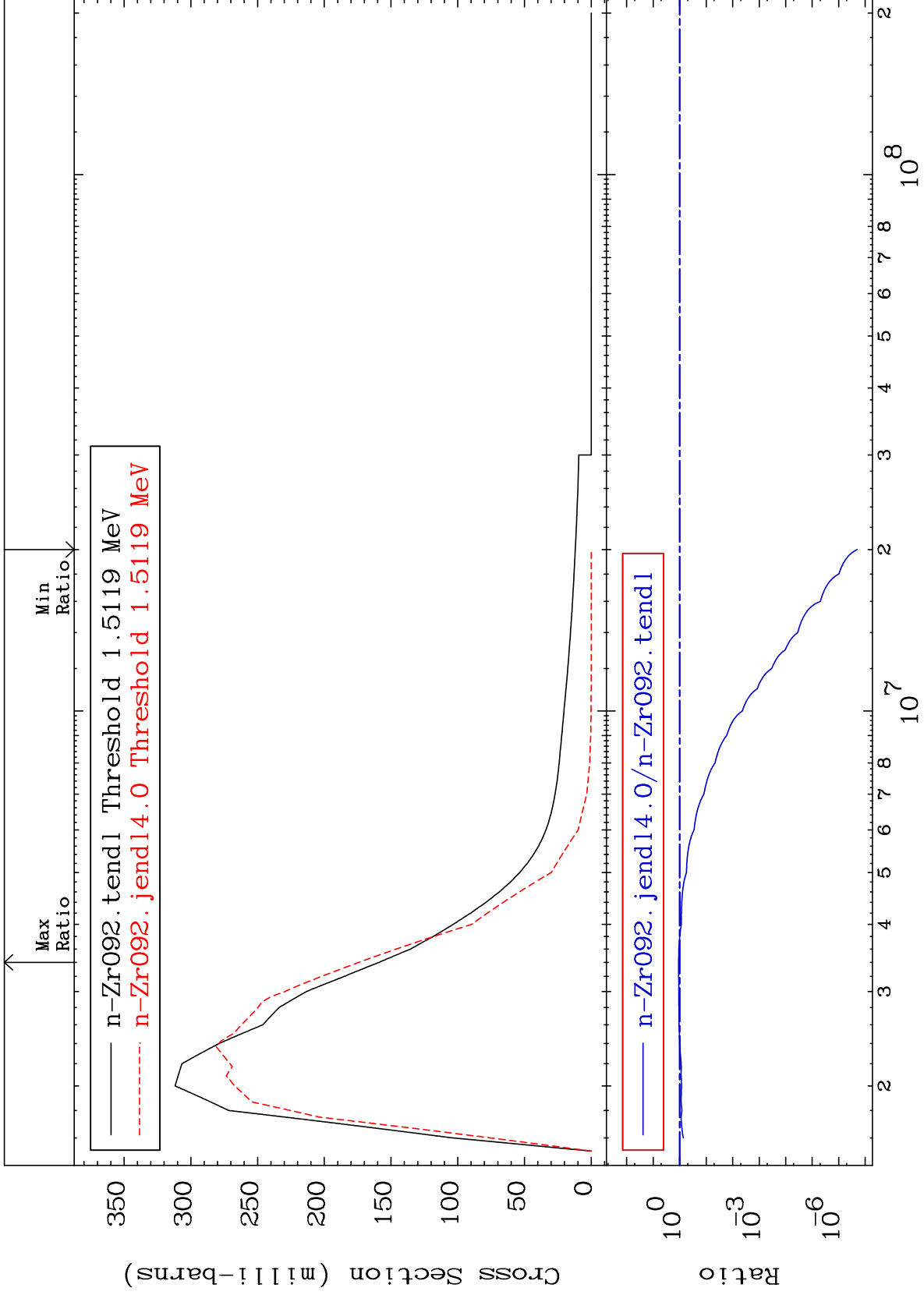
40-Zr-92
-53.56 To 9999. %



MAT 4031

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

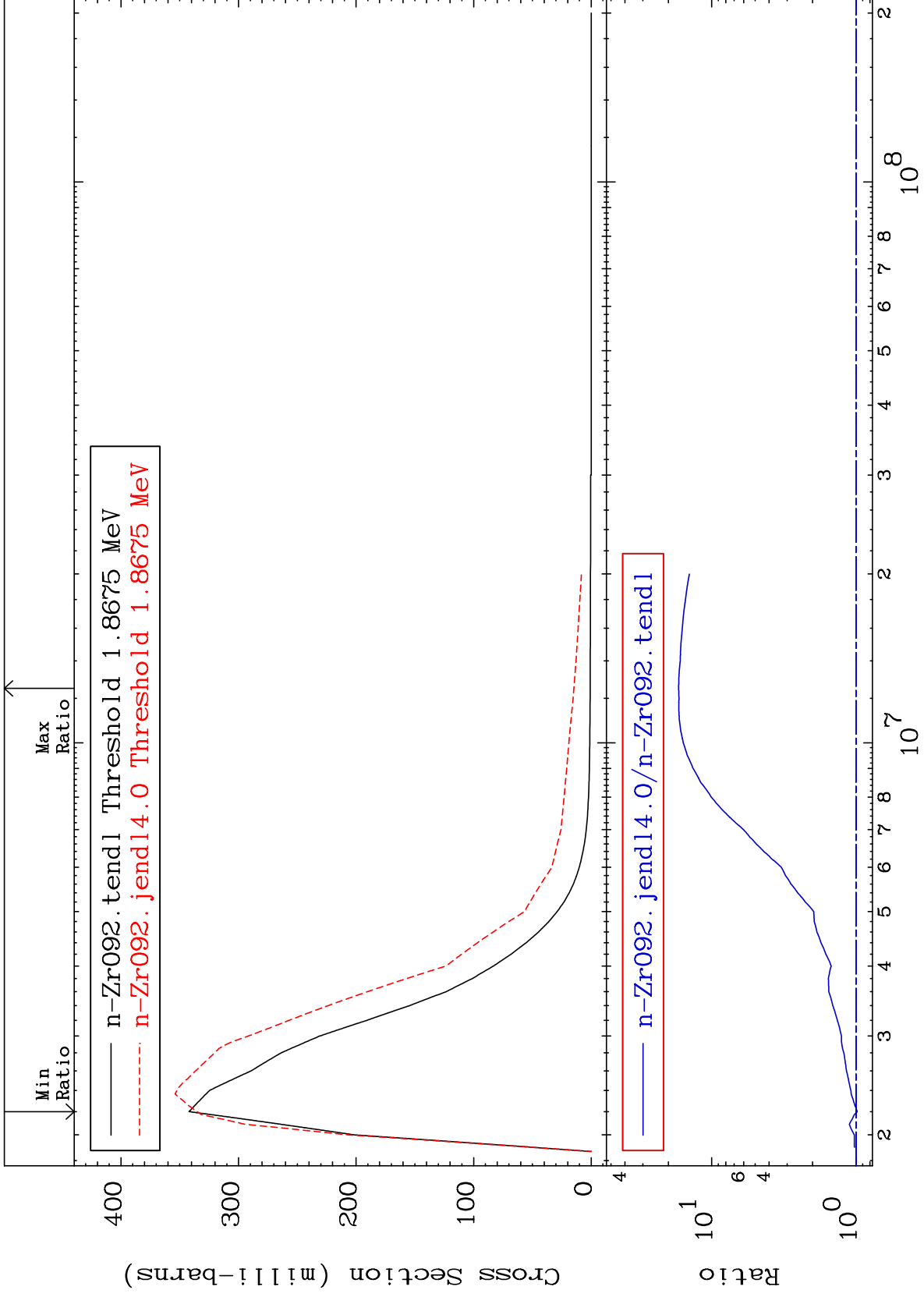
40-Zr-92
-100.0 To 9.576 %



MAT 4031

MT= 54 (n,n') Level
Cross Section

40-Zr-92
-2.002 To 1596. %



13

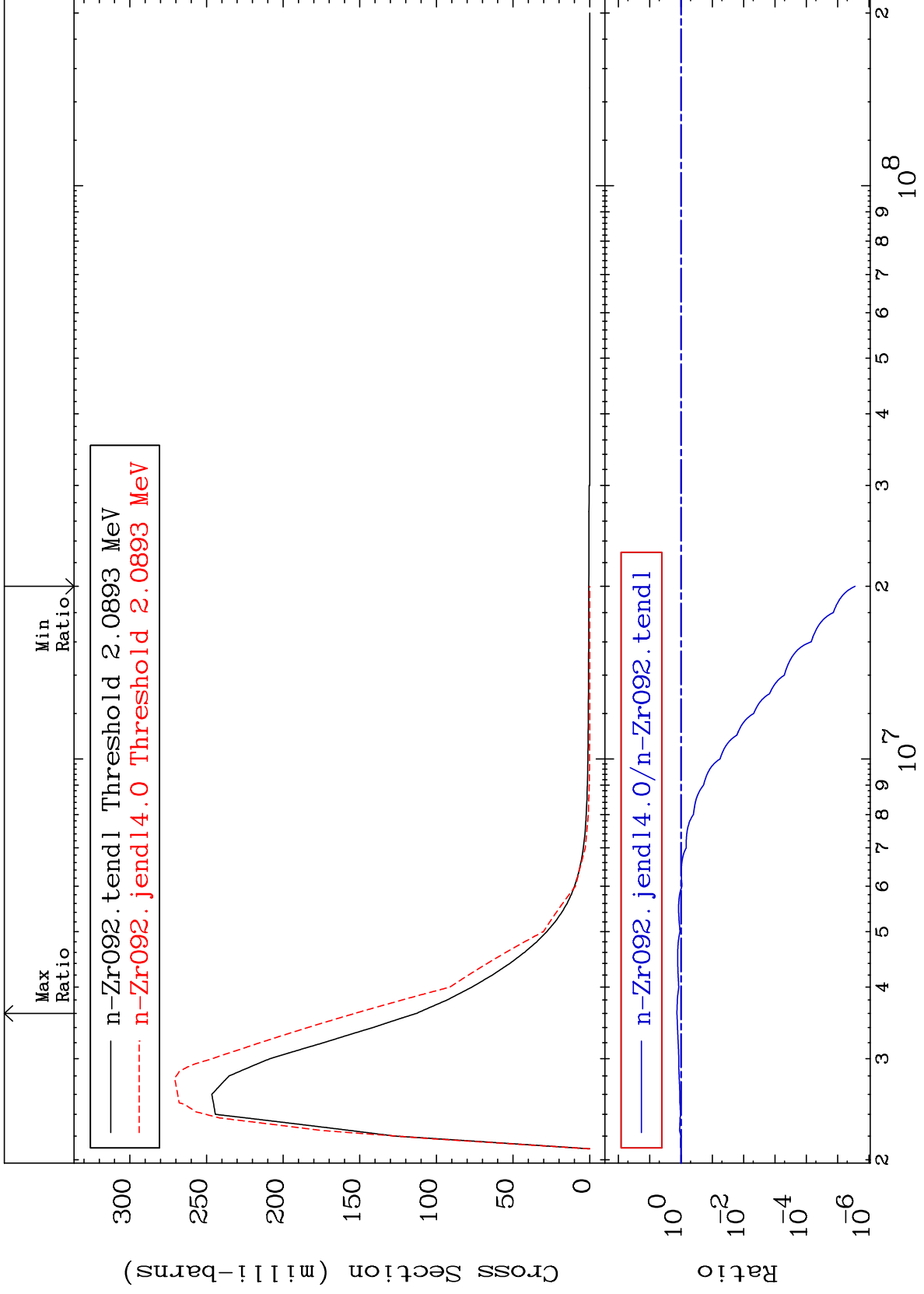
Incident Energy (eV)

40-Zr-92

MAT 4031

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

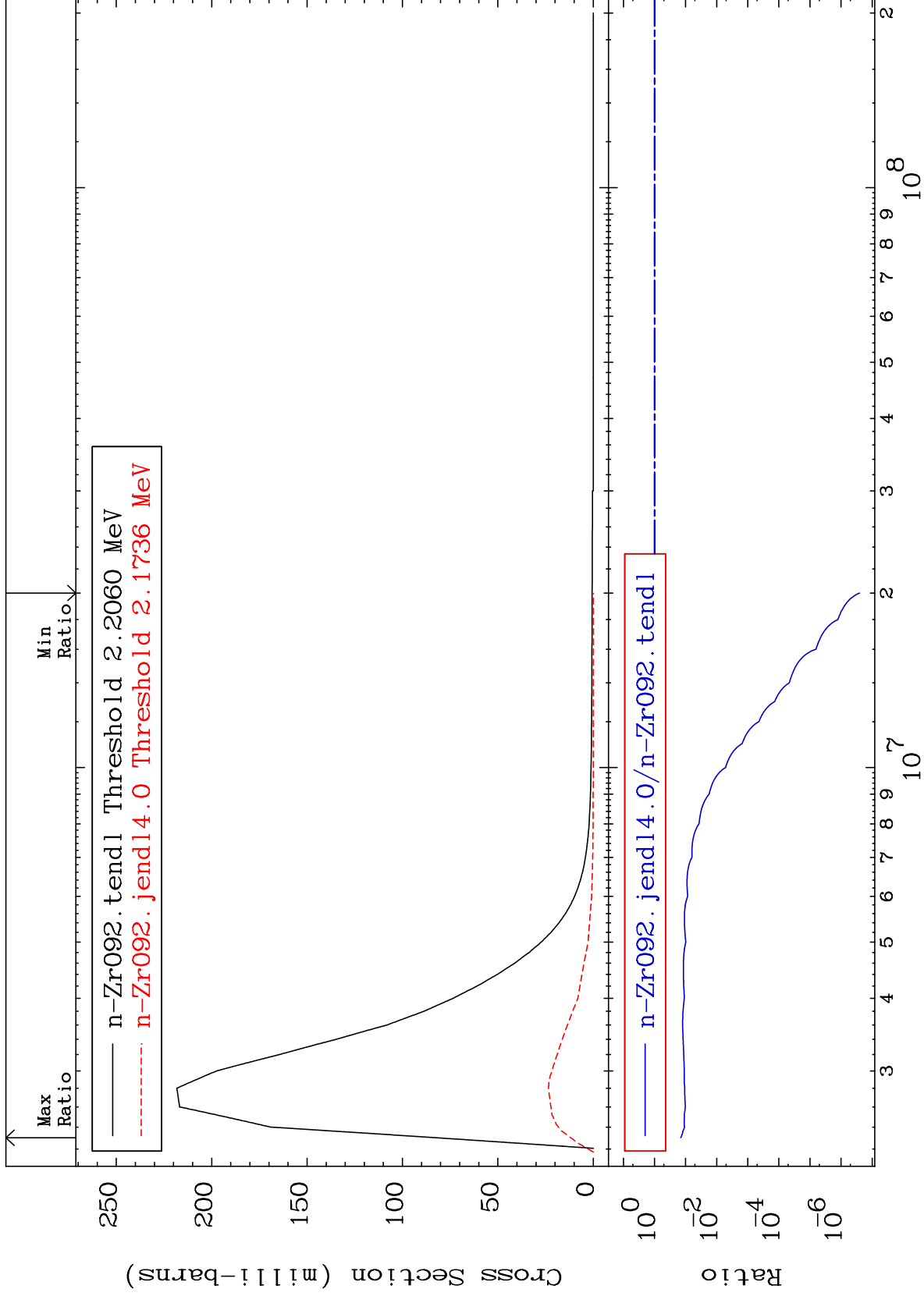
40-Zr-92
-100.0 To 35.51 %



MAT 4031

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

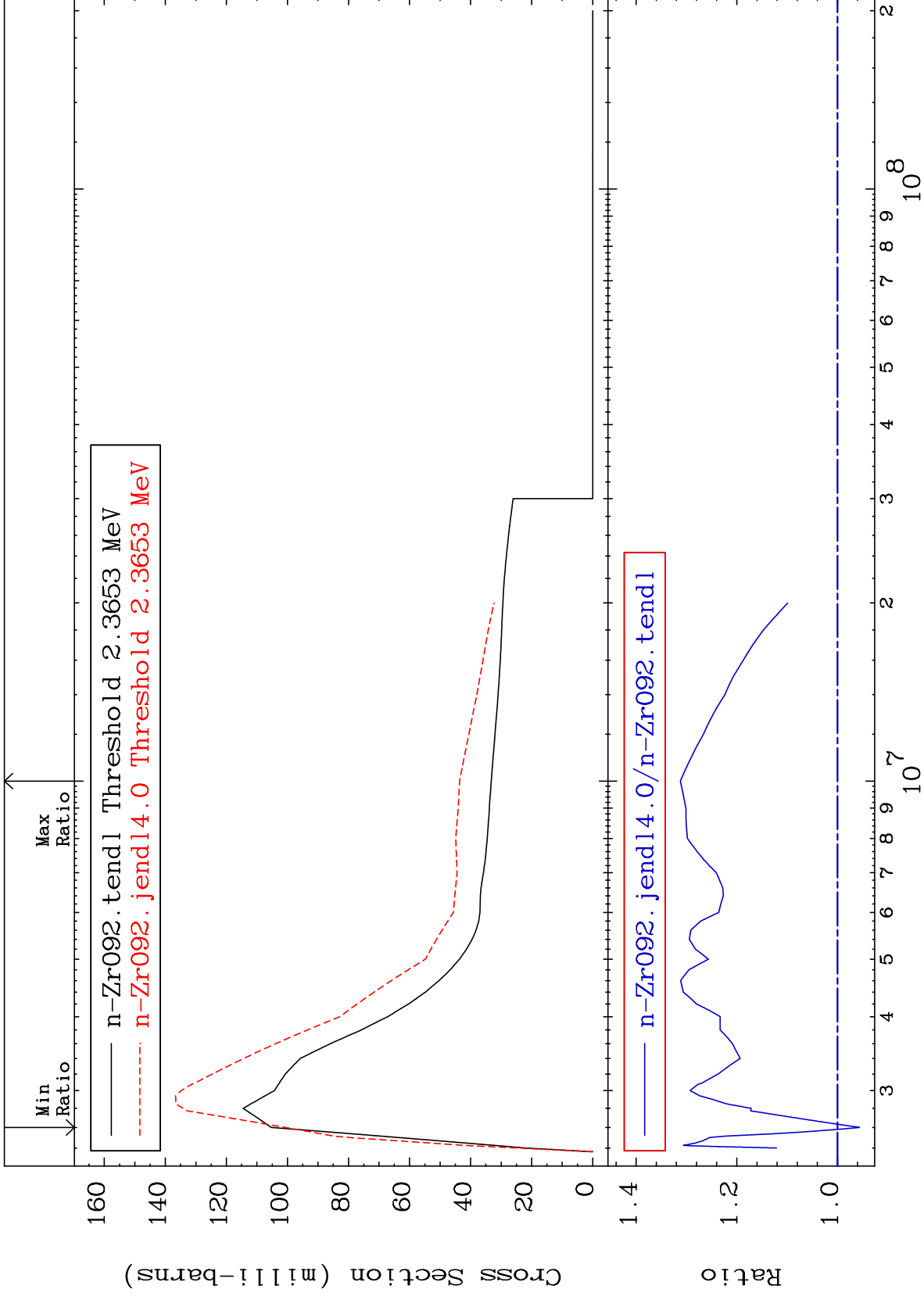
40-Zr-92
-100.0 To -85.72%



MAT 4031

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

40-Zr-92
-4.361 To 31.22 %



16

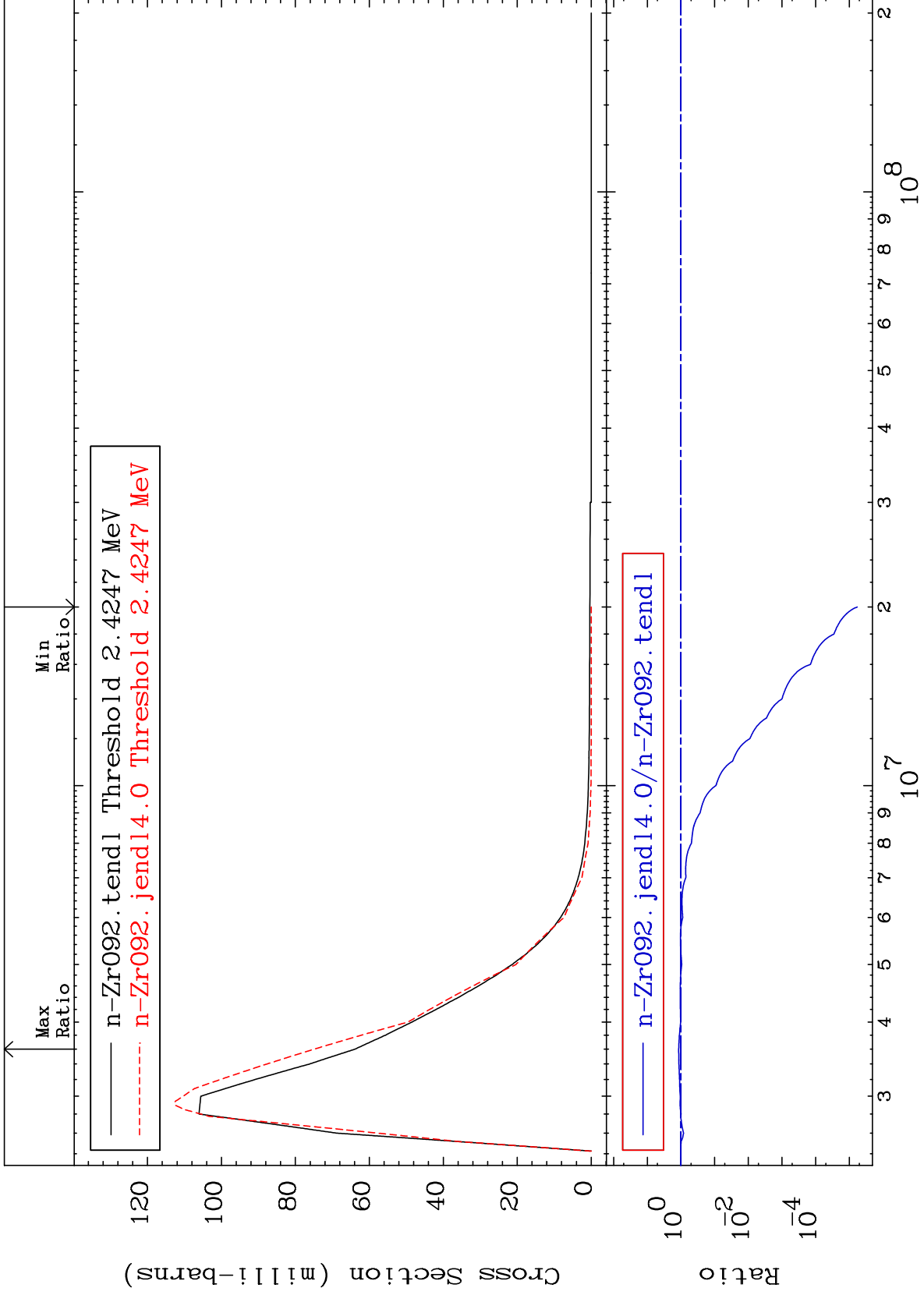
Incident Energy (eV)

40-Zr-92

MAT 4031

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

40-Zr-92
-100.0 To 17.26 %



17

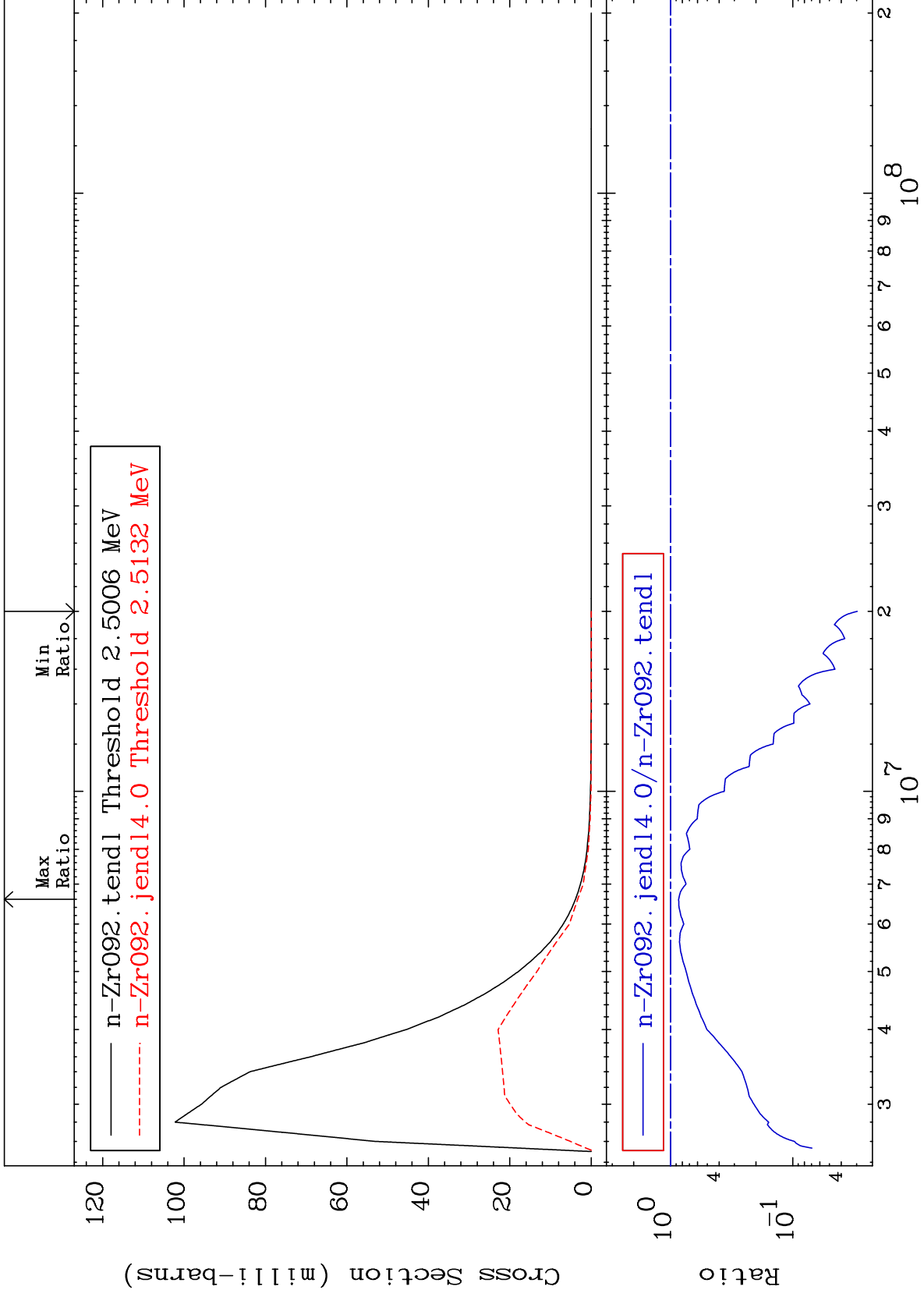
Incident Energy (eV)

40-Zr-92

MAT 4031

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

40-Zr-92
-97.04 To -14.21%



18

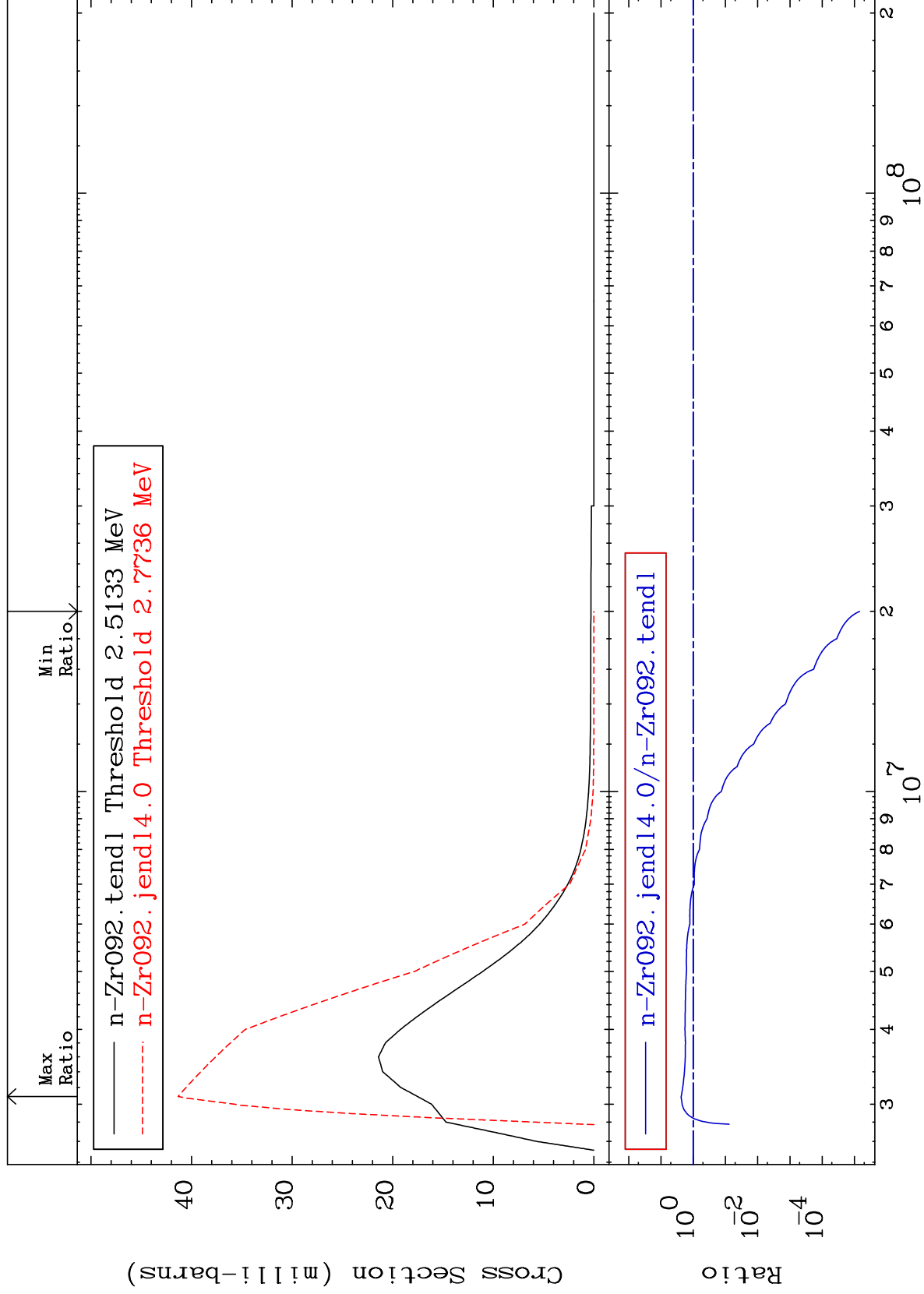
Incident Energy (eV)

40-Zr-92

MAT 4031

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

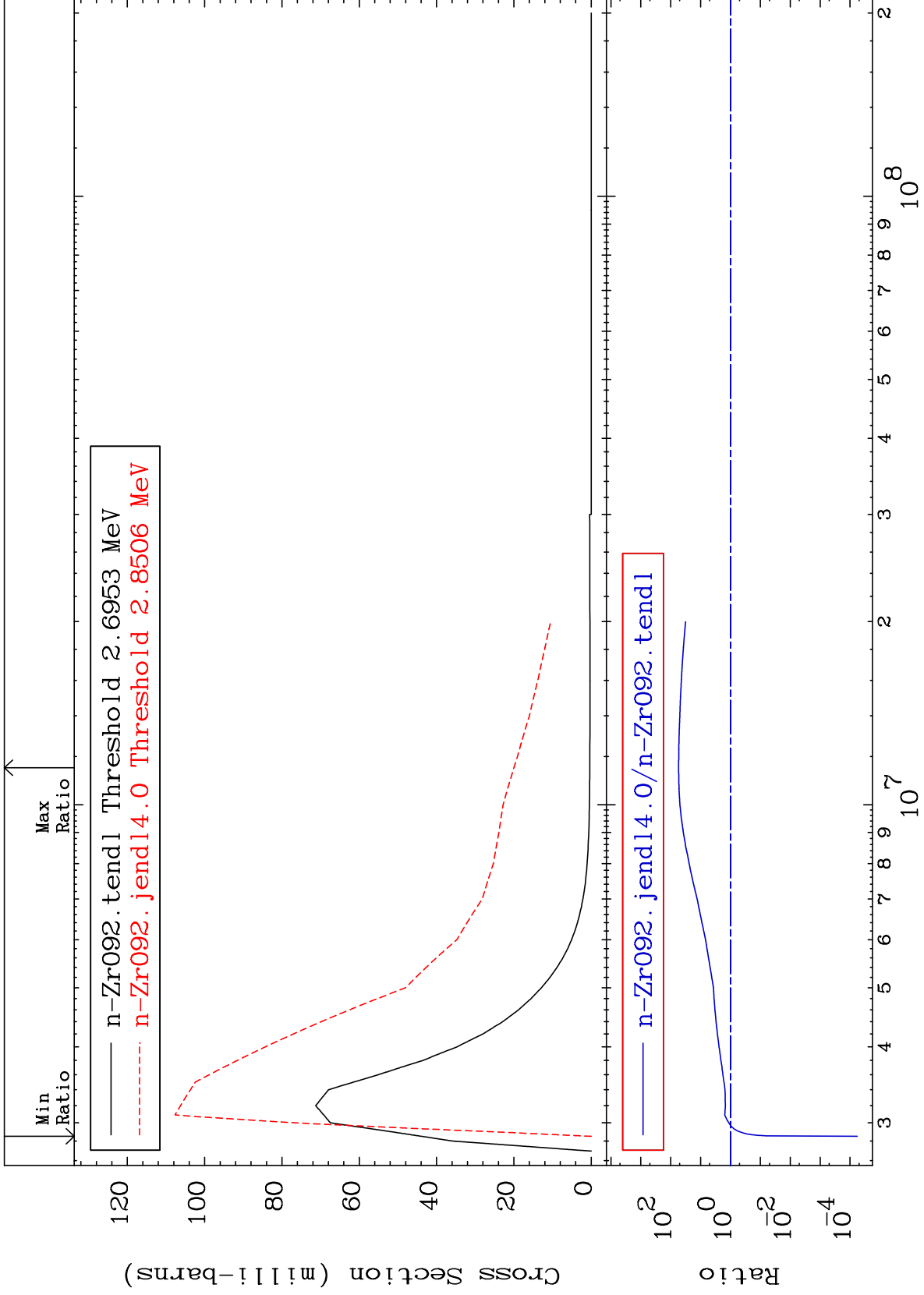
40-Zr-92
-100.0 To 135.8 %



MAT 4031

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

40-Zr-92
-99.99 To 5338. %



20

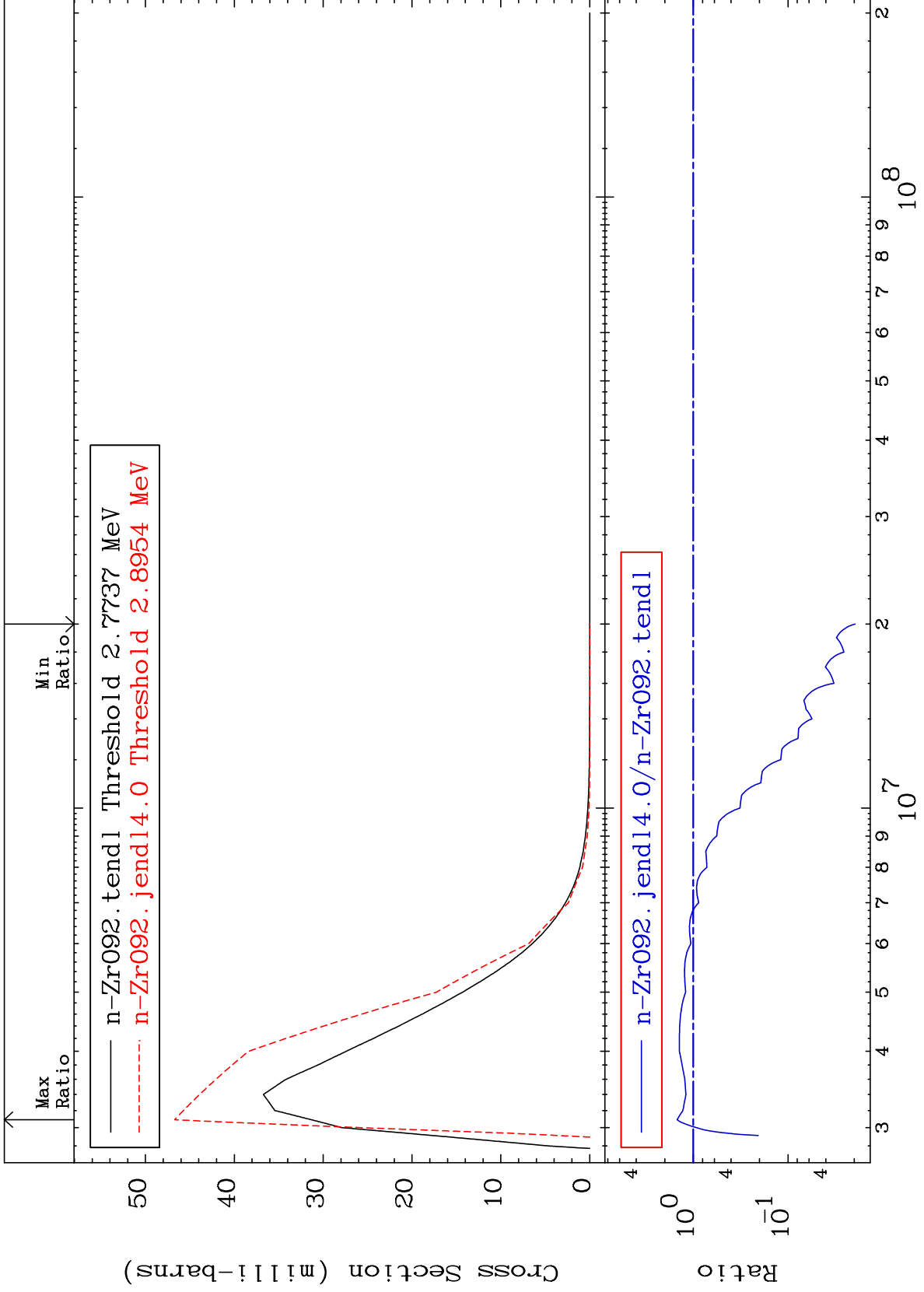
Incident Energy (eV)

40-Zr-92

MAT 4031

MT= 62 (n,n') Level
Cross Section

40-Zr-92
-98.04 To 48.99 %



21

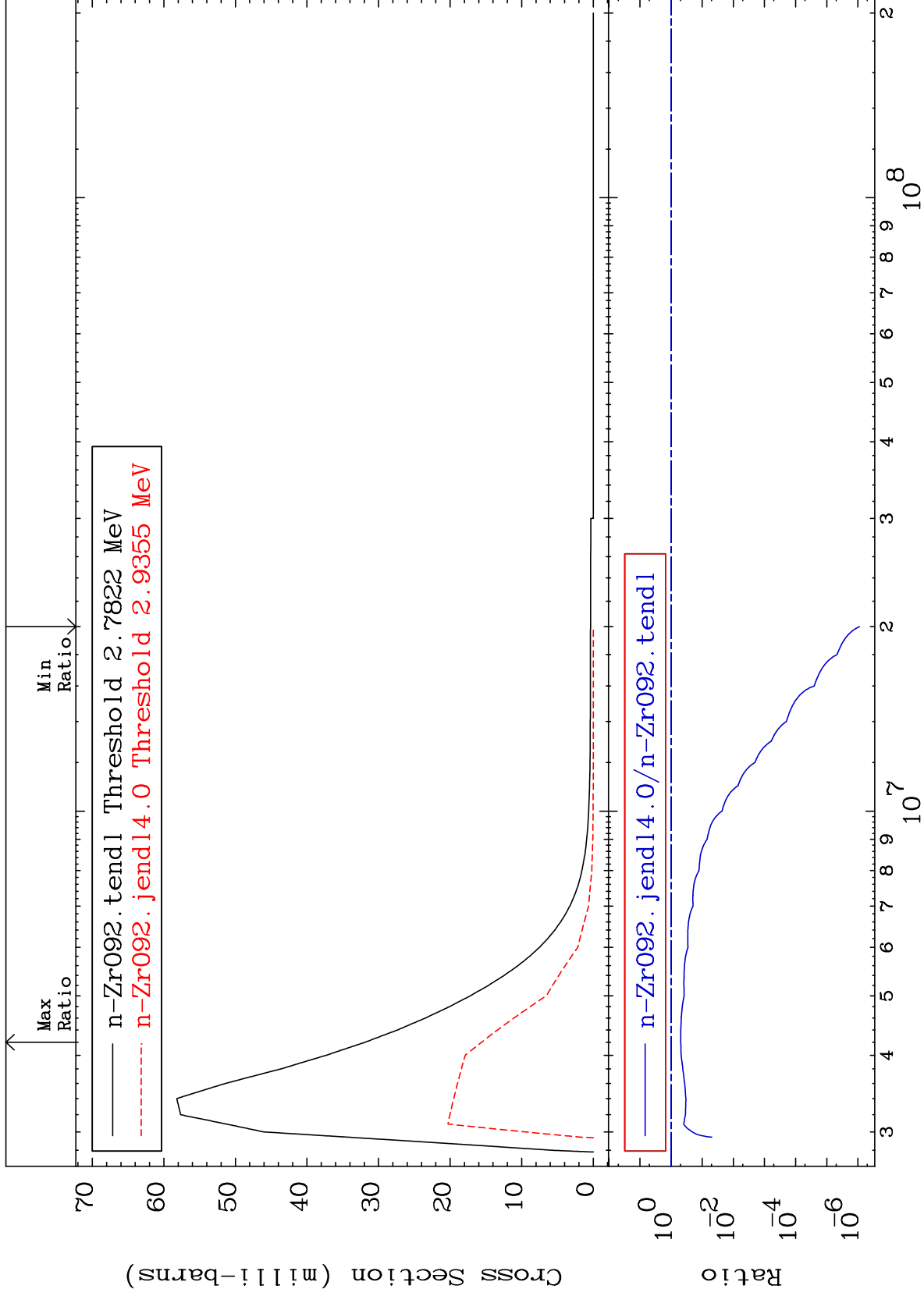
Incident Energy (eV)

40-Zr-92

MAT 4031

MT= 63 (n,n') Level
Cross Section

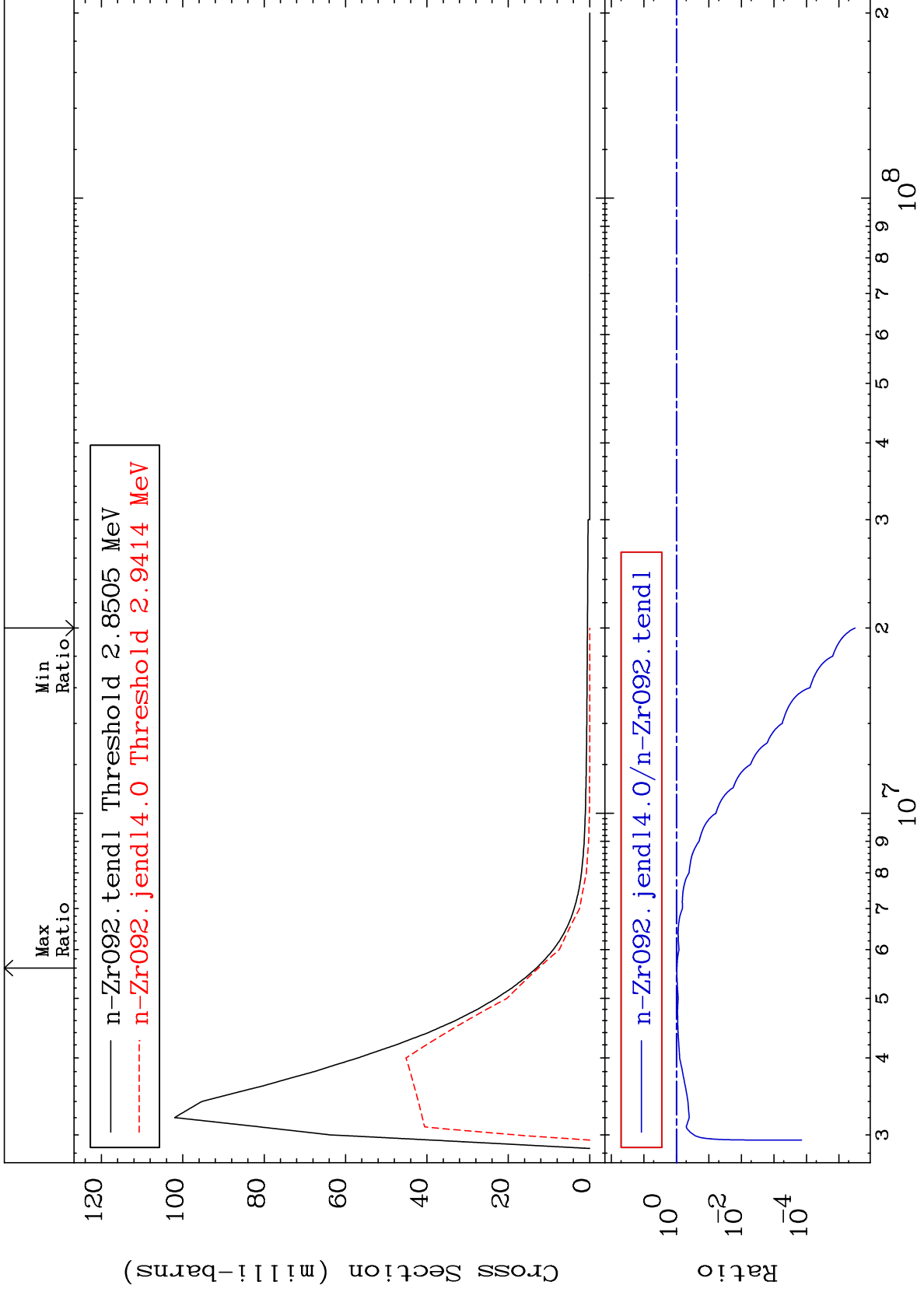
40-Zr-92
-100.0 To -51.01%



MAT 4031

MT= 64 (n,n') Level
Cross Section

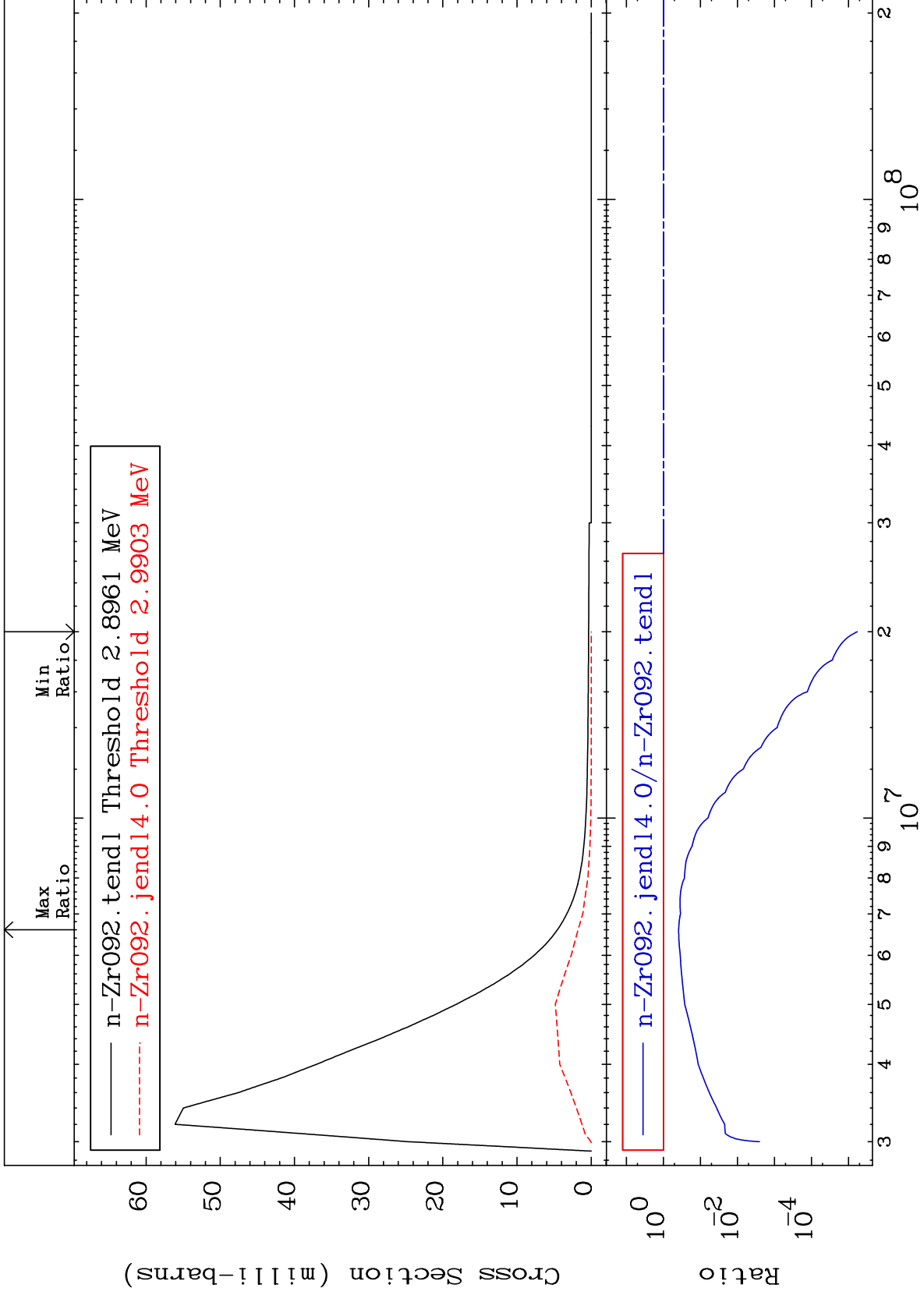
40-Zr-92
-100.0 To -3.778%



MAT 4031

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

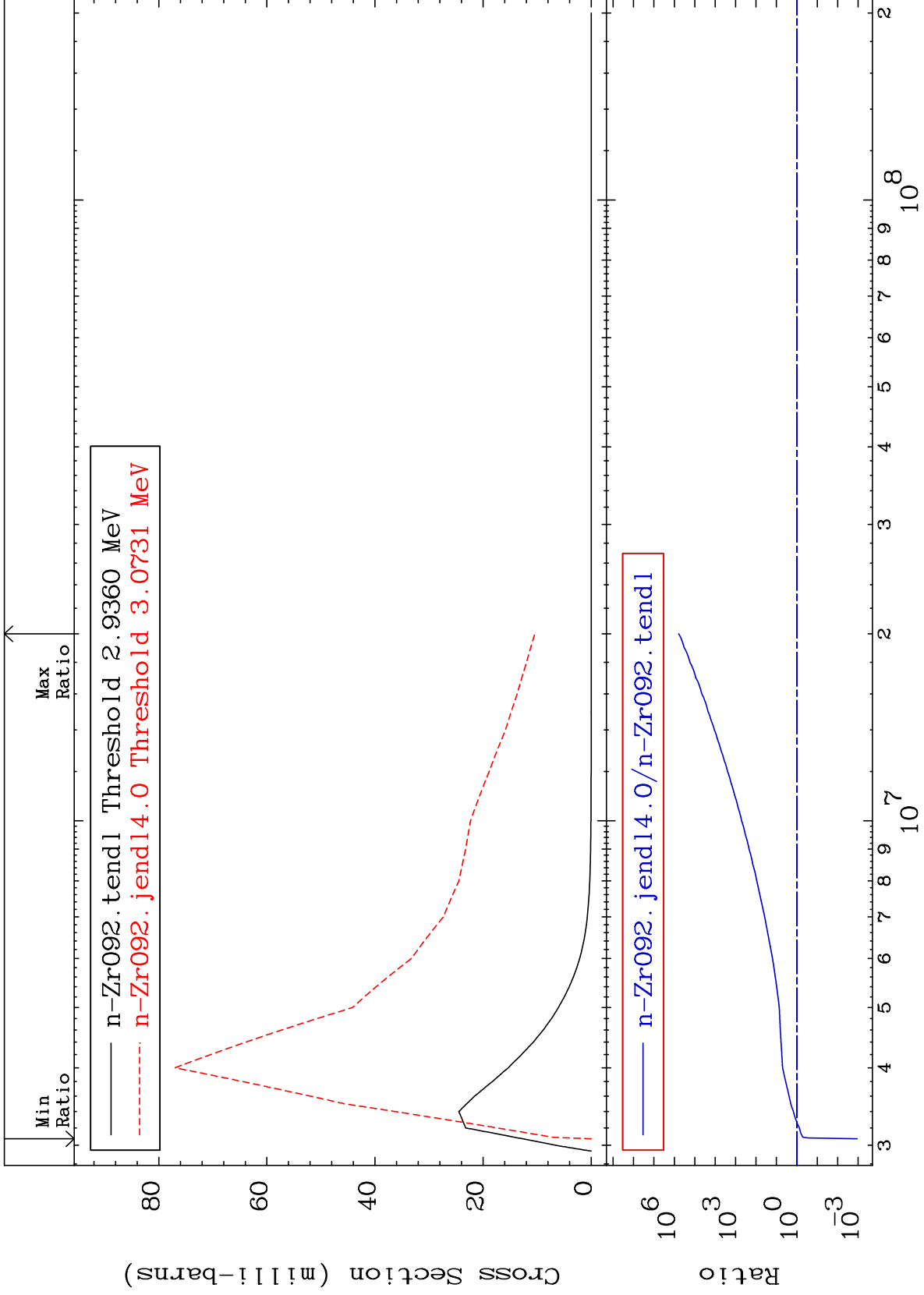
40-Zr-92
-100.0 To -61.28%



MAT 4031

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

40-Zr-92
-99.89 To 9999. %



25

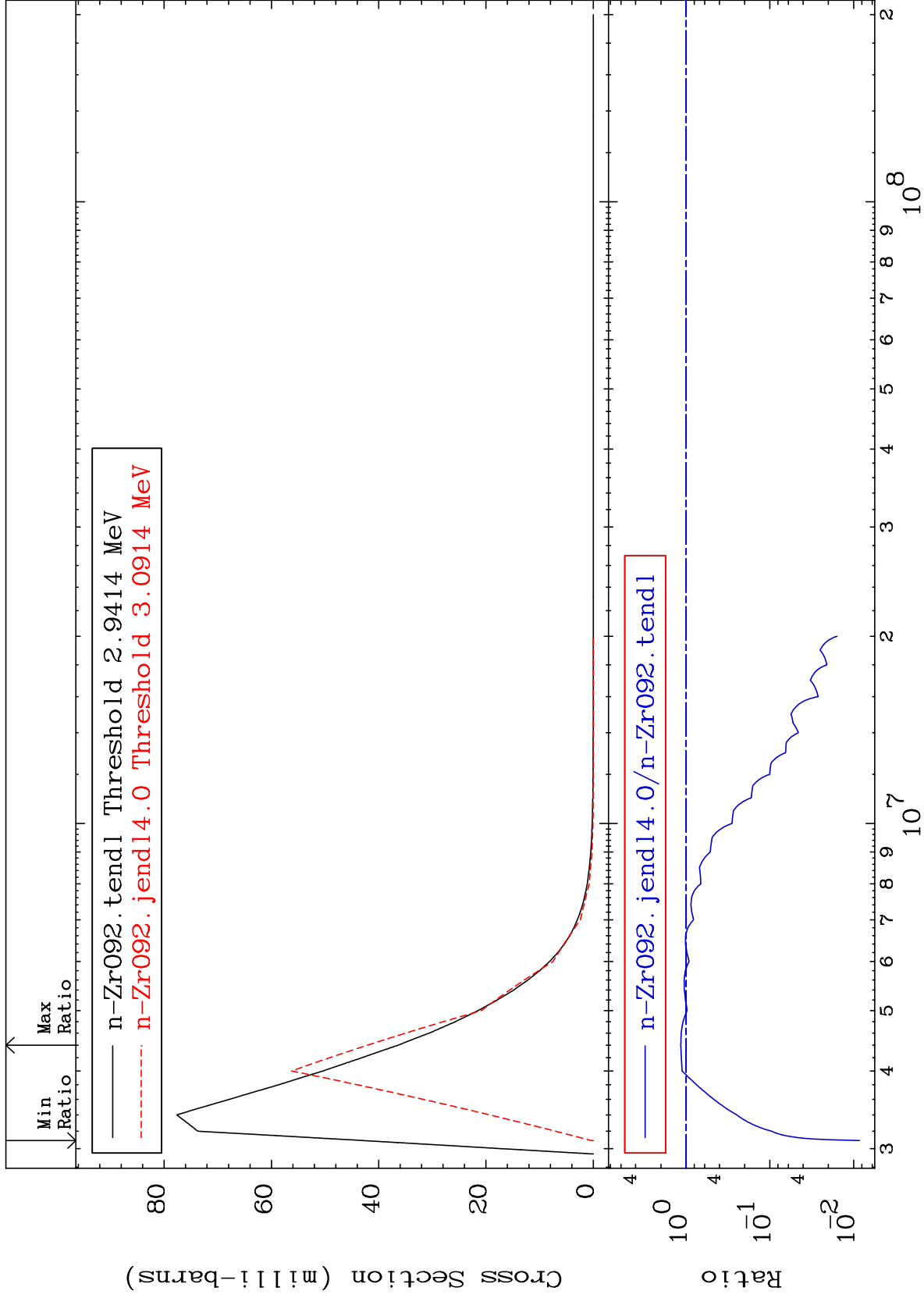
Incident Energy (eV)

40-Zr-92

MAT 4031

MT= 67 (n,n') Level
Cross Section

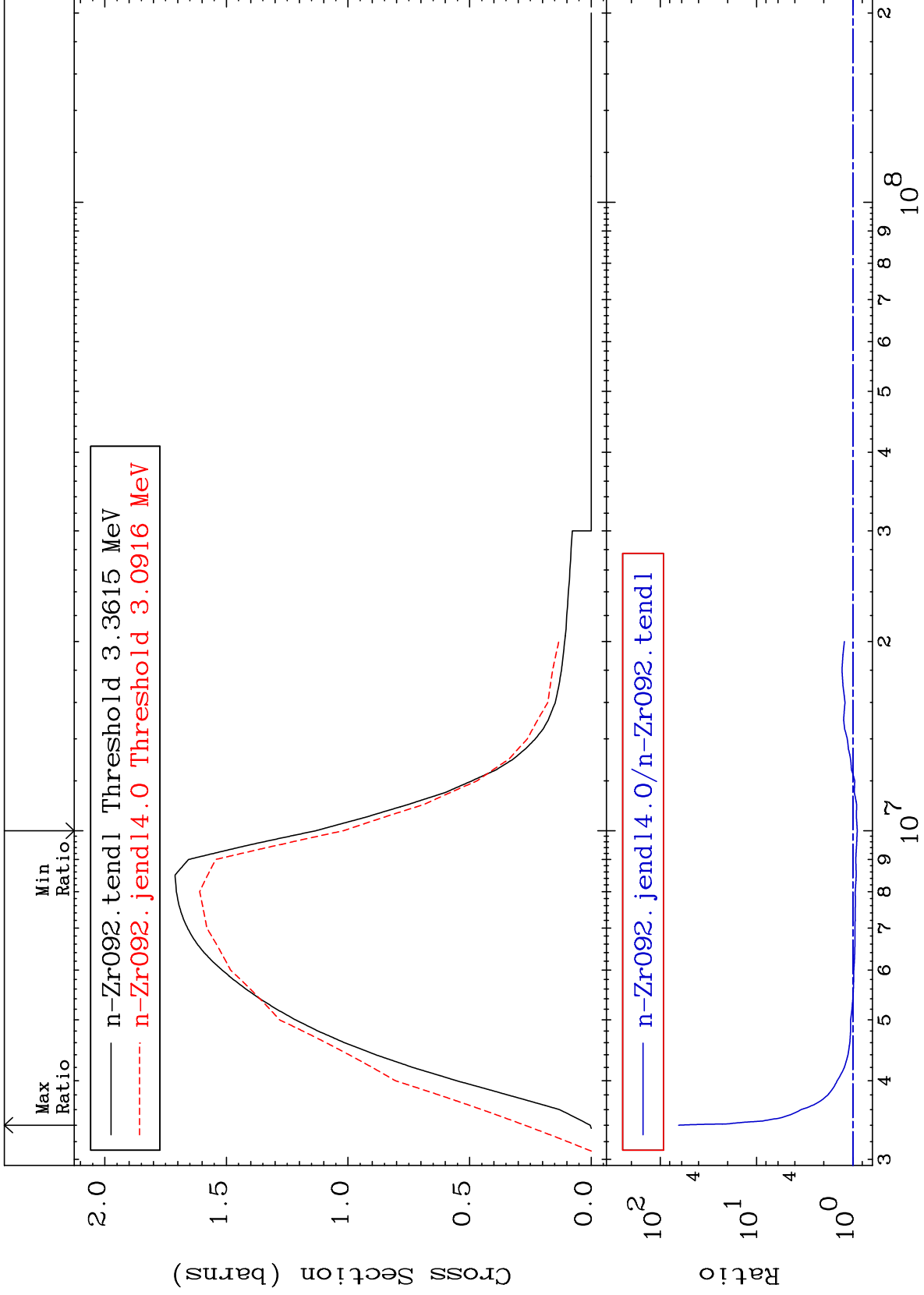
40-Zr-92
-99.15 To 15.68 %



MAT 4031

(n, n') Continuum
Cross Section

40-Zr-92
-10.02 To 6351. %



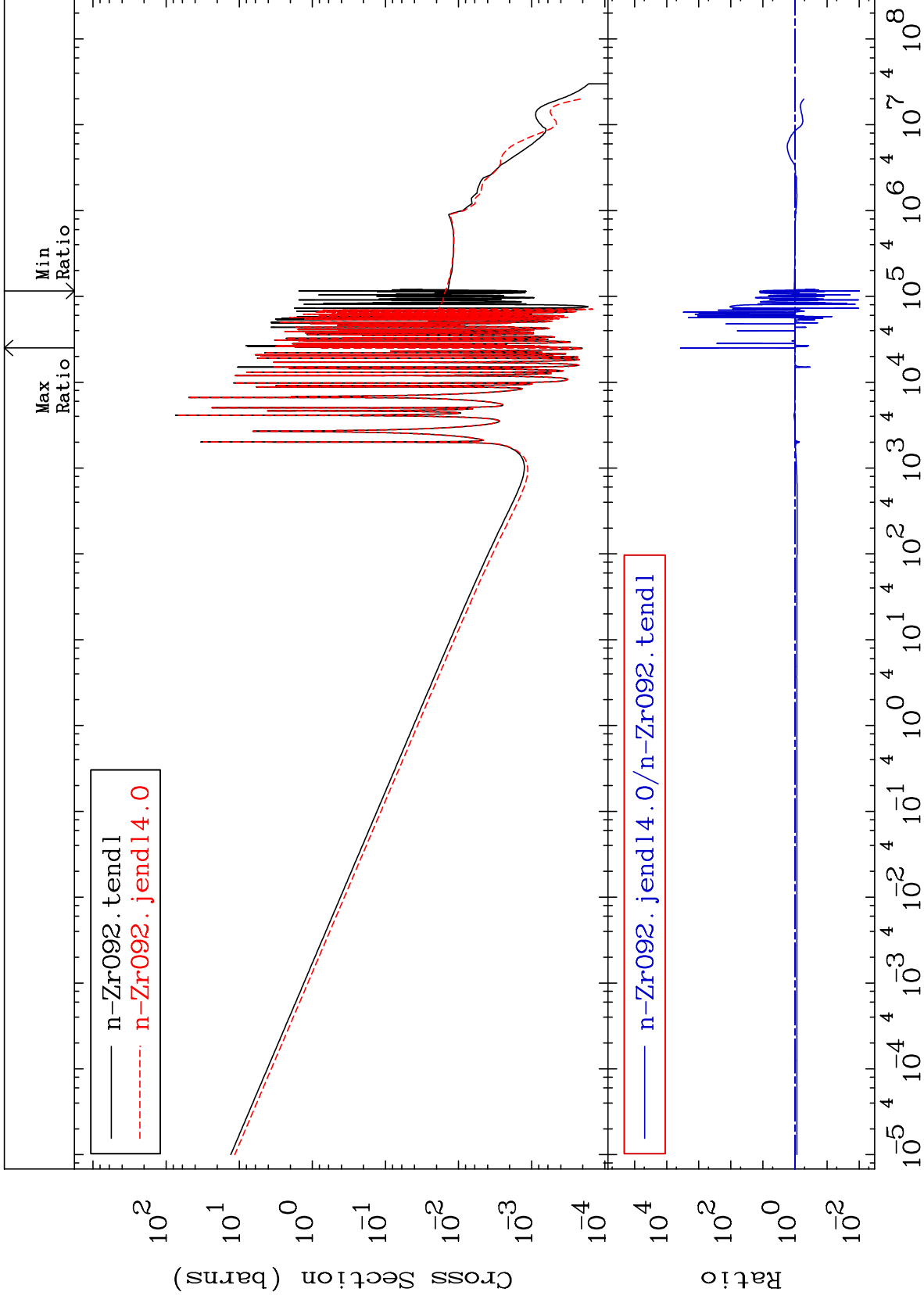
MAT 4031

(n, γ)

40-Zr-92

Cross Section

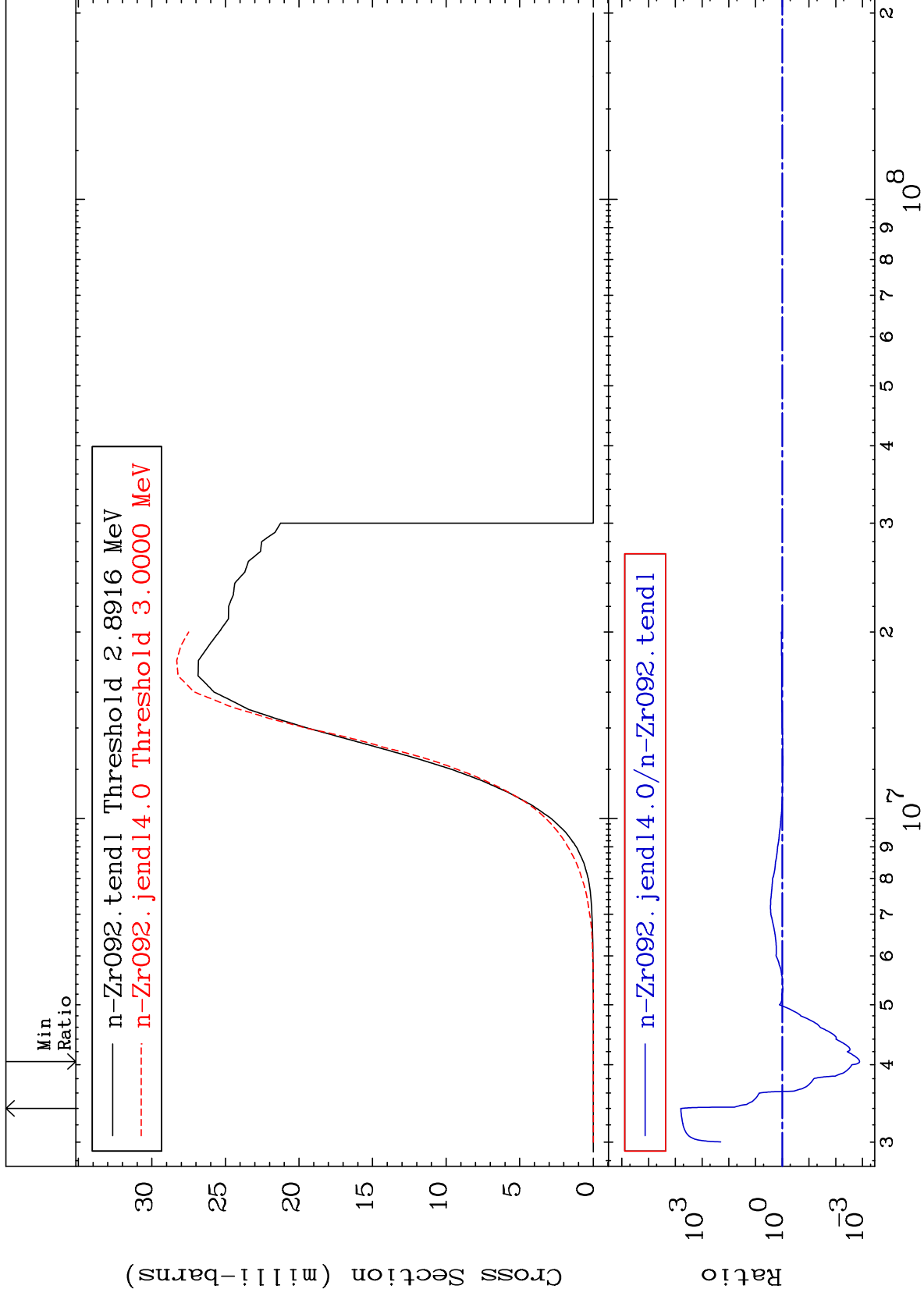
-99.02 To 9999. %



MAT 4031

(n,p)
Cross Section

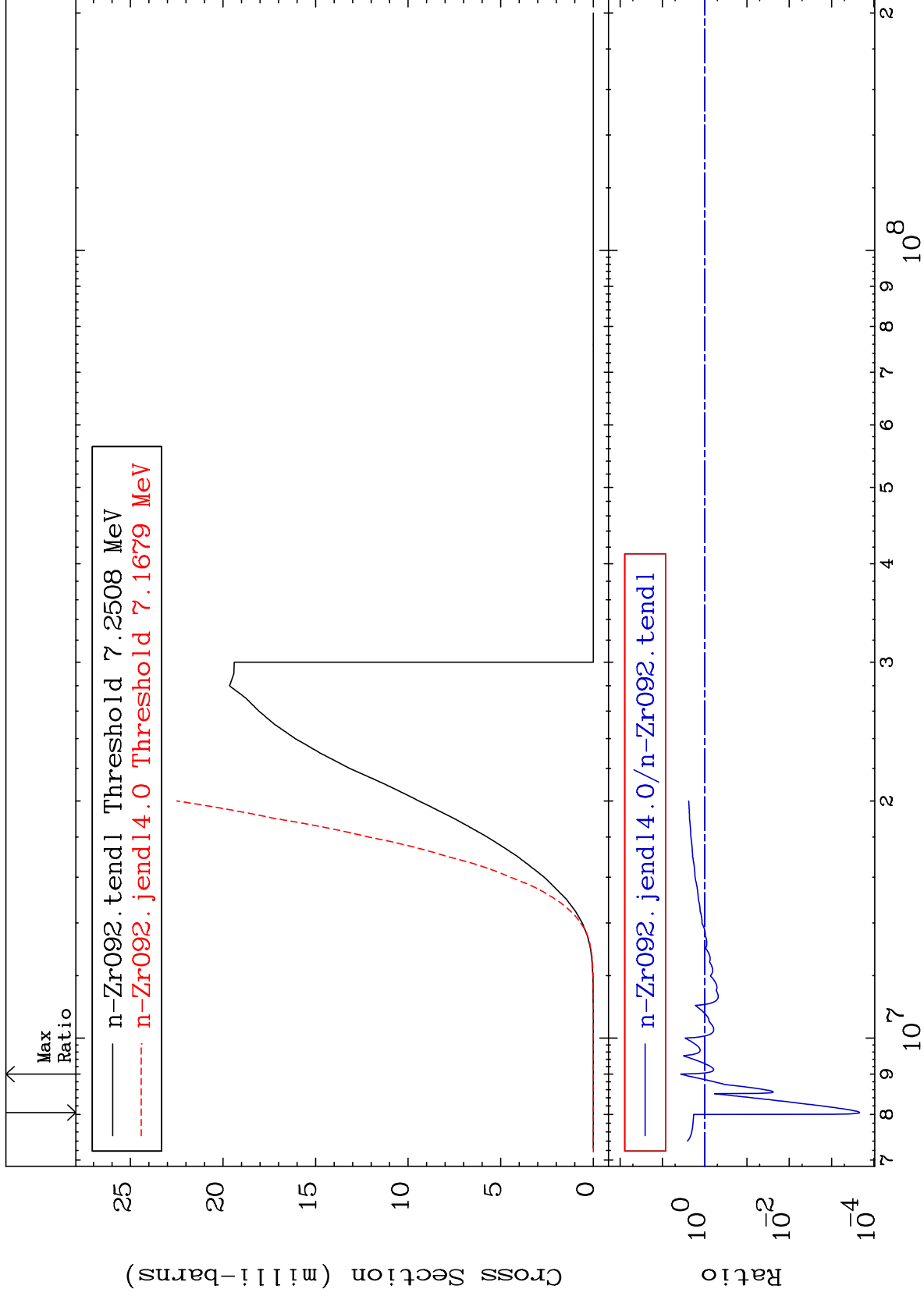
40-Zr-92
-99.87 To 9999. %



MAT 4031

(n, d)
Cross Section

40-Zr-92
-99.98 To 267.6 %



30

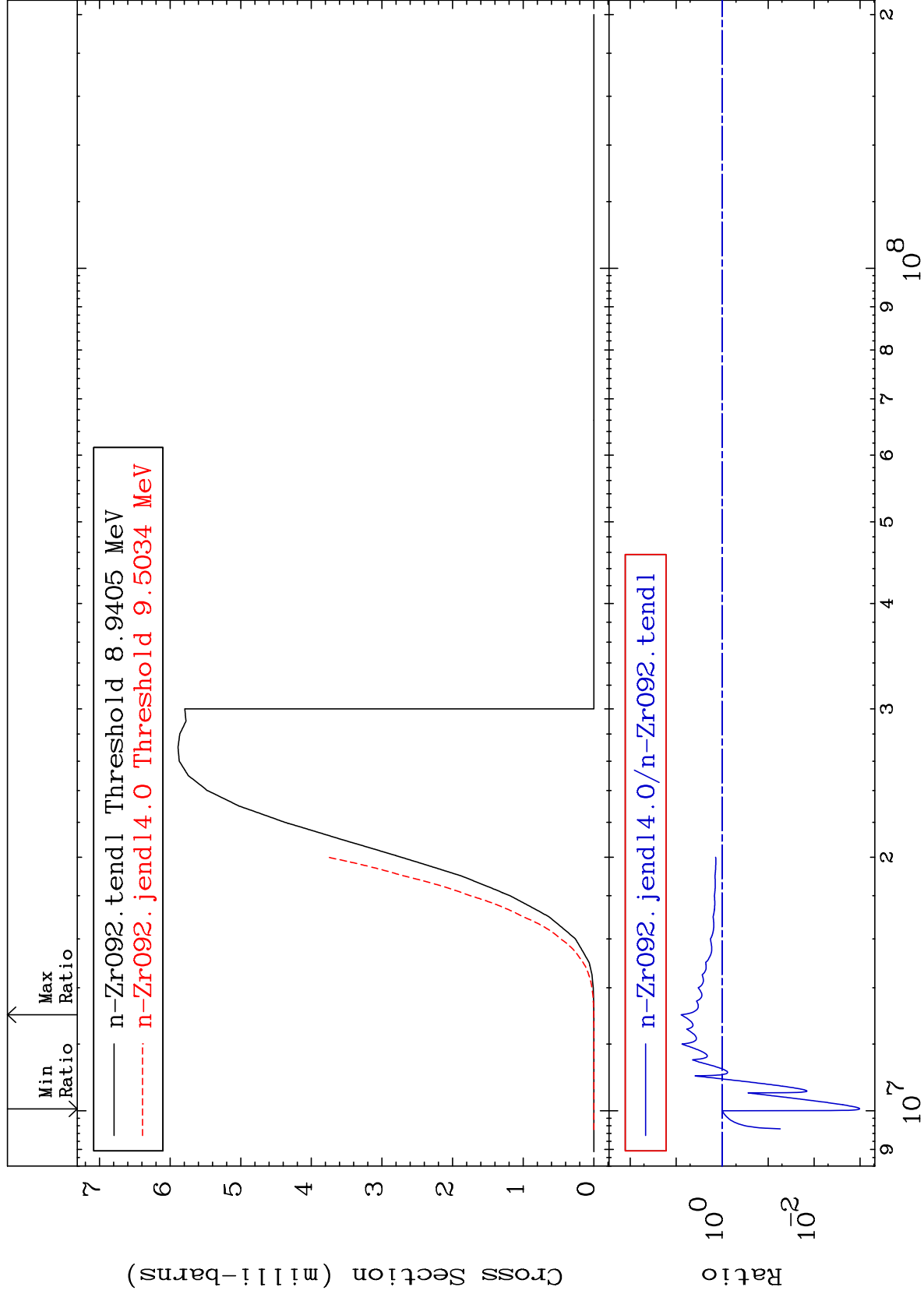
Incident Energy (eV)

40-Zr-92

MAT 4031

(n, t)
Cross Section

40-Zr-92
-99.90 To 678.0 %



31

40-Zr-92

40-Zr-92

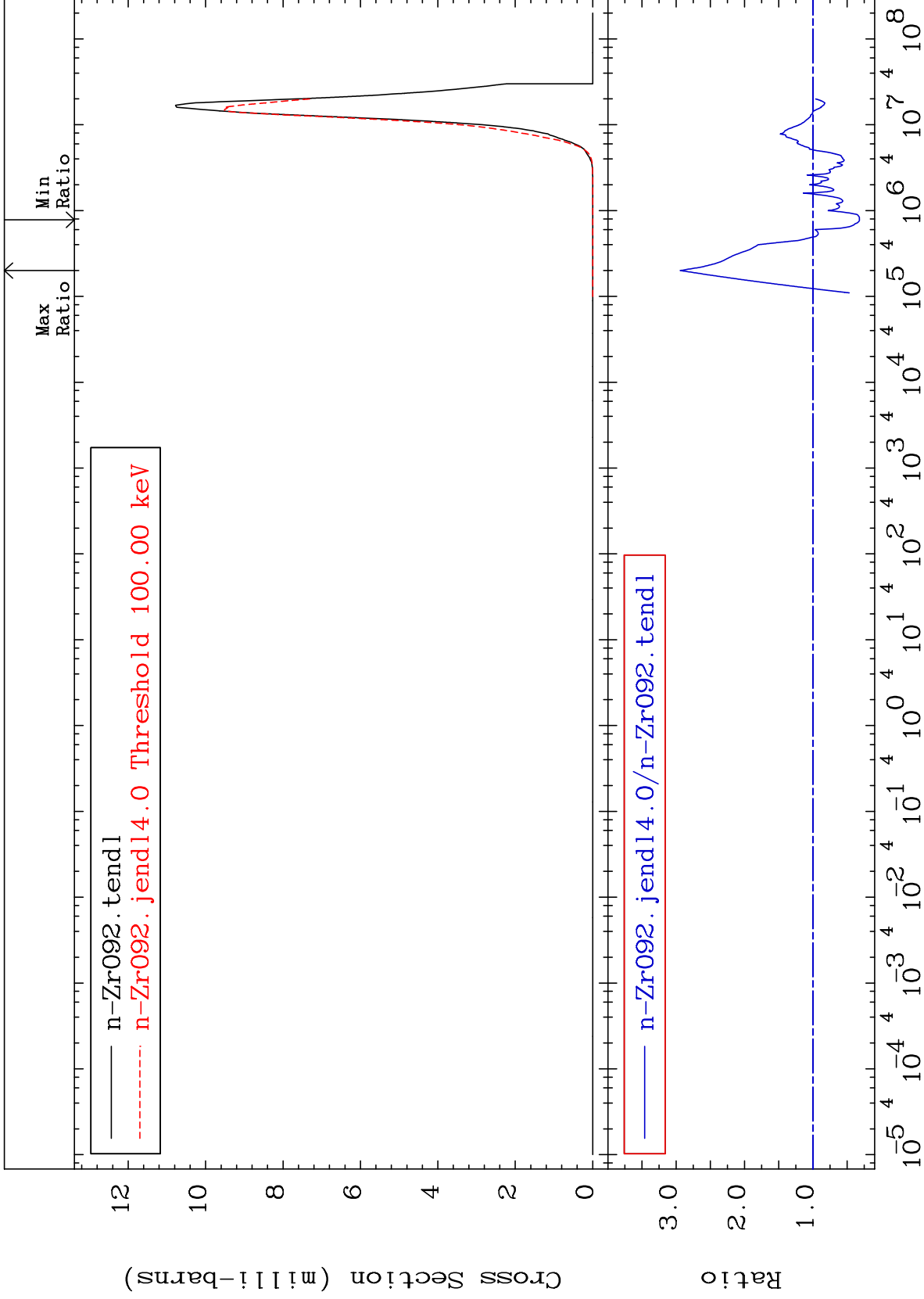
MAT 4031

(n, α)

Cross Section

40-Zr-92

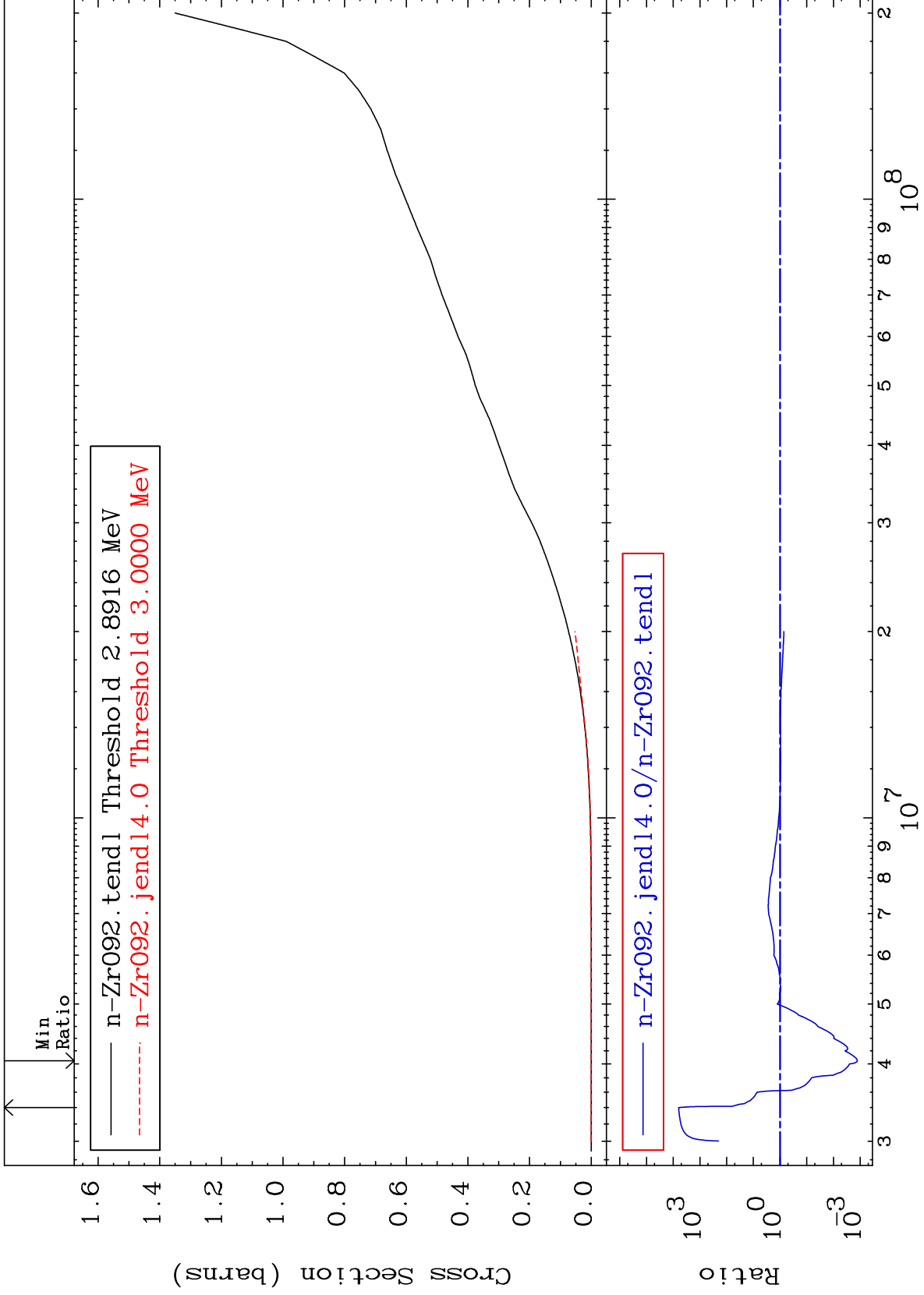
-68.12 To 193.8 %



MAT 4031

Hydrogen Production
Cross Section

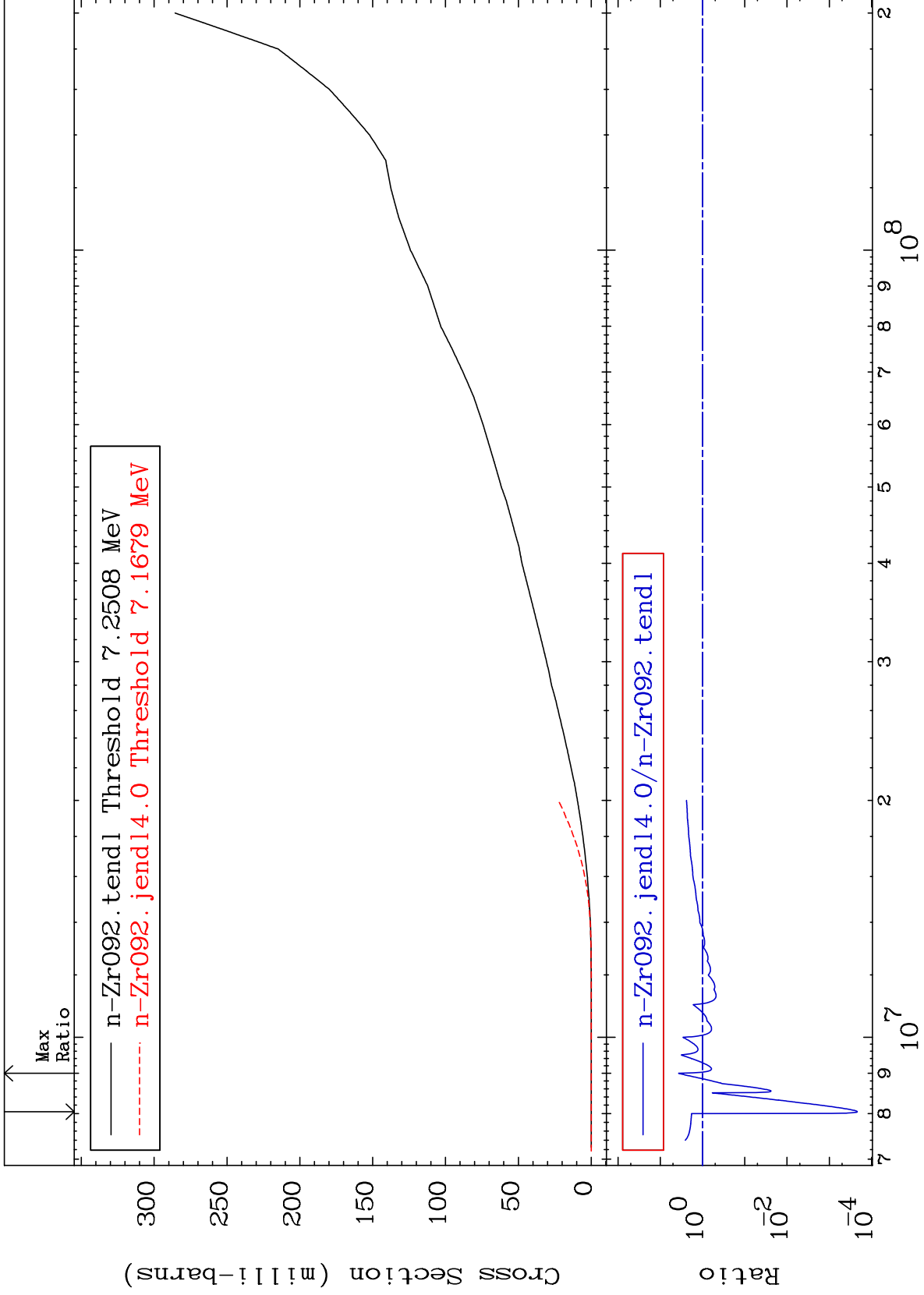
40-Zr-92
-99.87 To 9999. %



MAT 4031

Deuterium Production
Cross Section

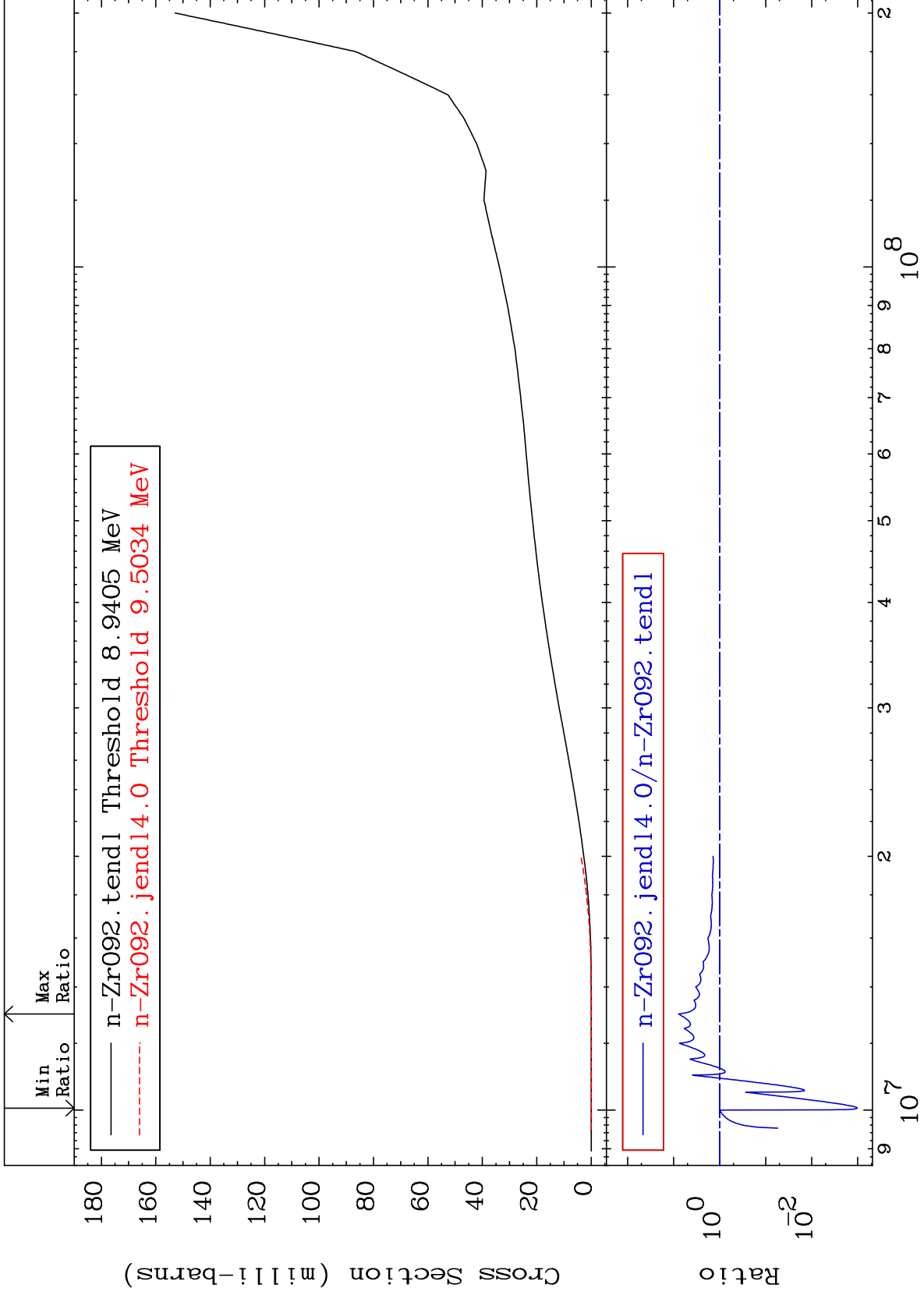
40-Zr-92
-99.98 To 267.6 %



MAT 4031

Tritium Production
Cross Section

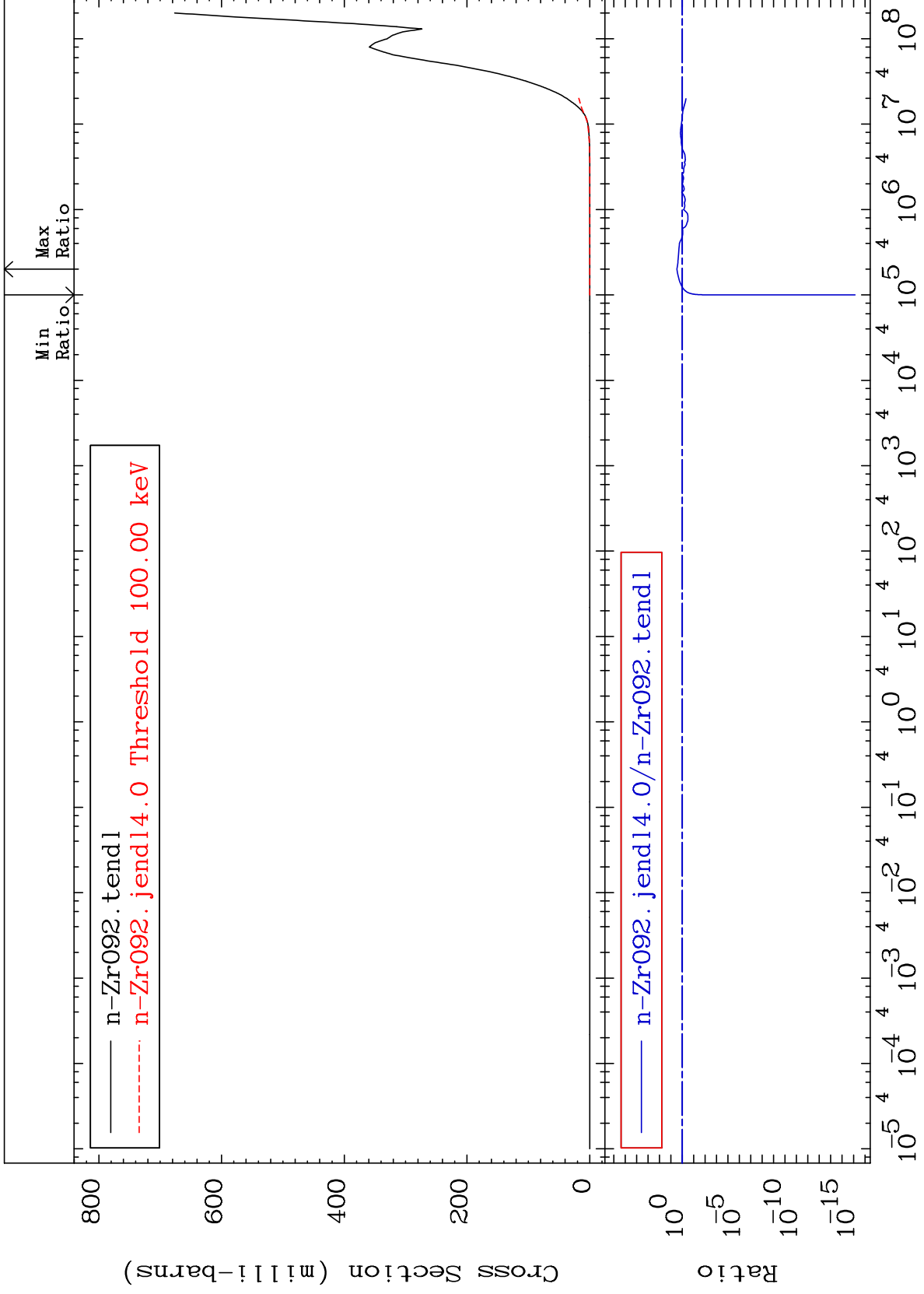
40-Zr-92
-99.90 To 678.0 %



MAT 4031

He-4 Production
Cross Section

40-Zr-92
-100.0 To 193.8 %



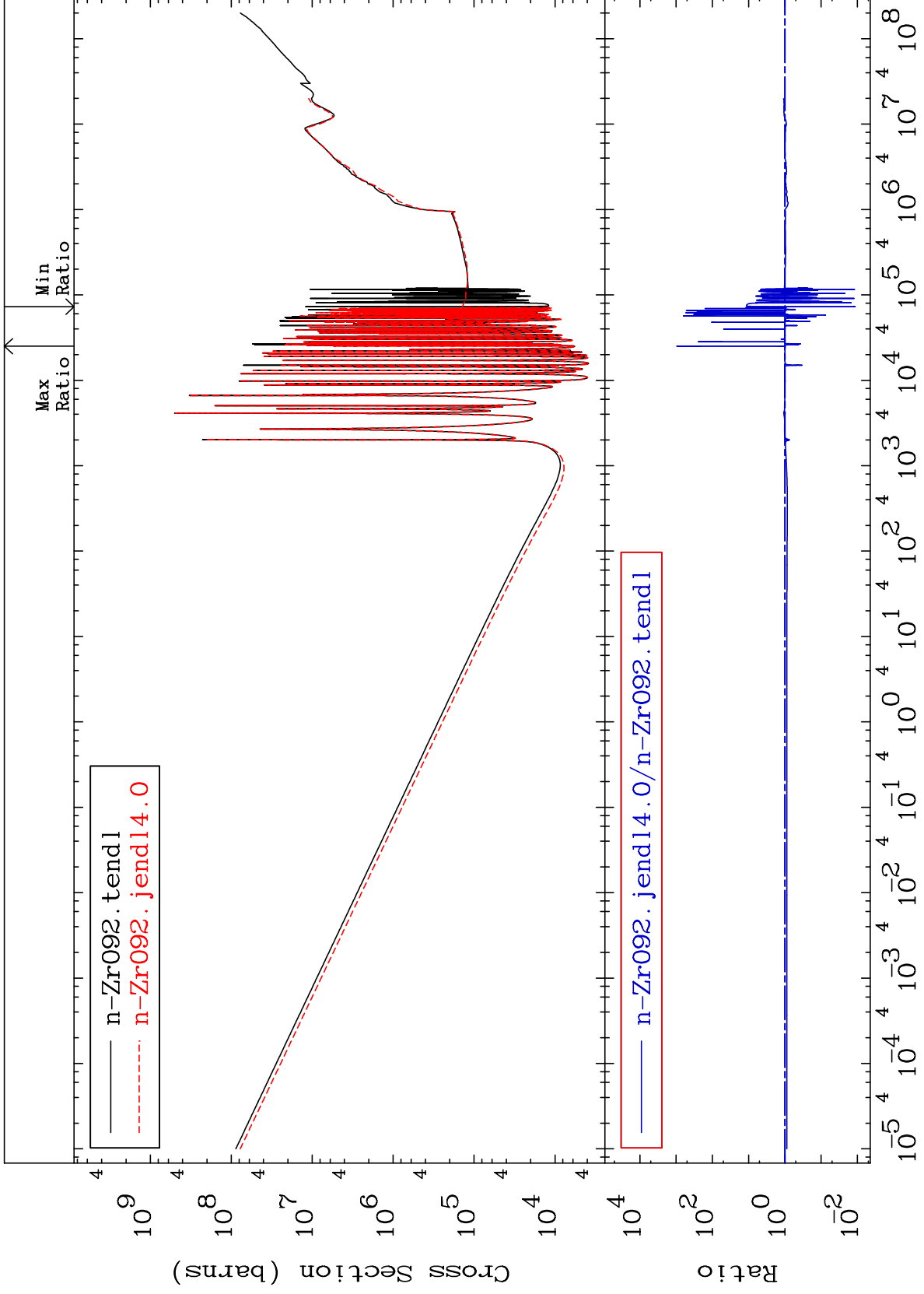
MAT 4031

Kerma total (eV-barns)

40-Zr-92

Cross Section

-98.84 To 9999. %



37

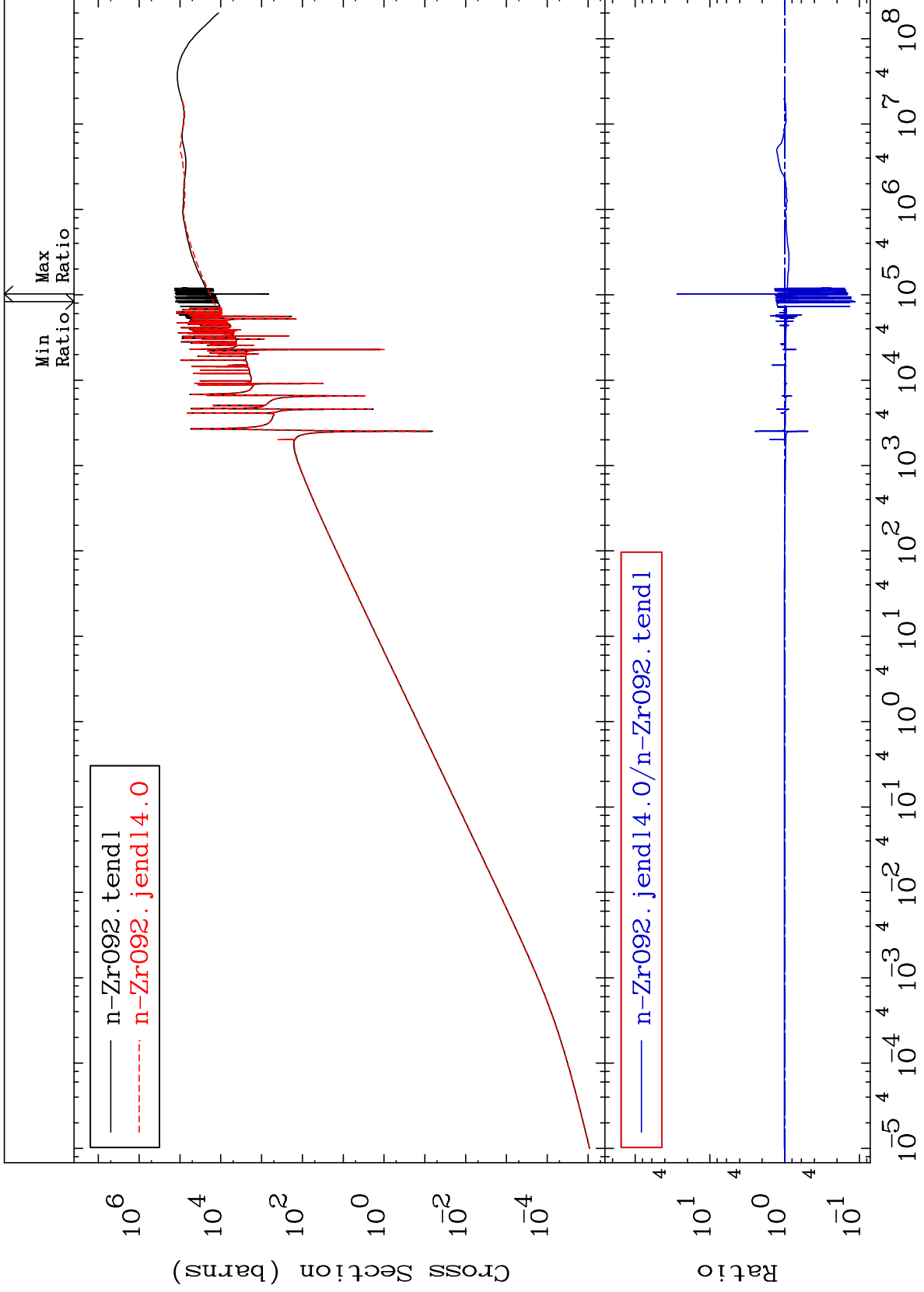
Incident Energy (eV)

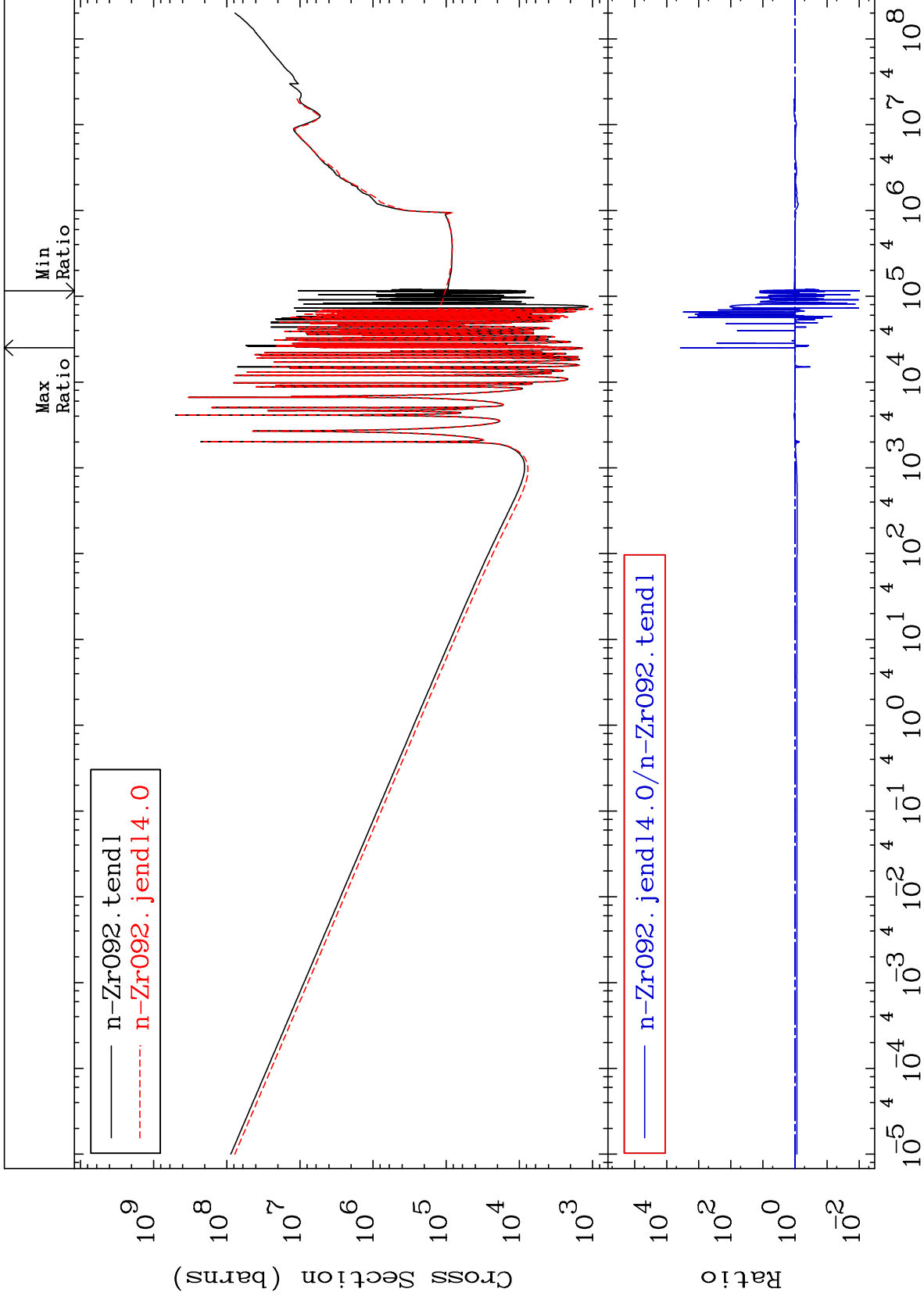
40-Zr-92

MAT 4031

Kerma elastic
Cross Section

40-Zr-92
-88.55 To 2660. %



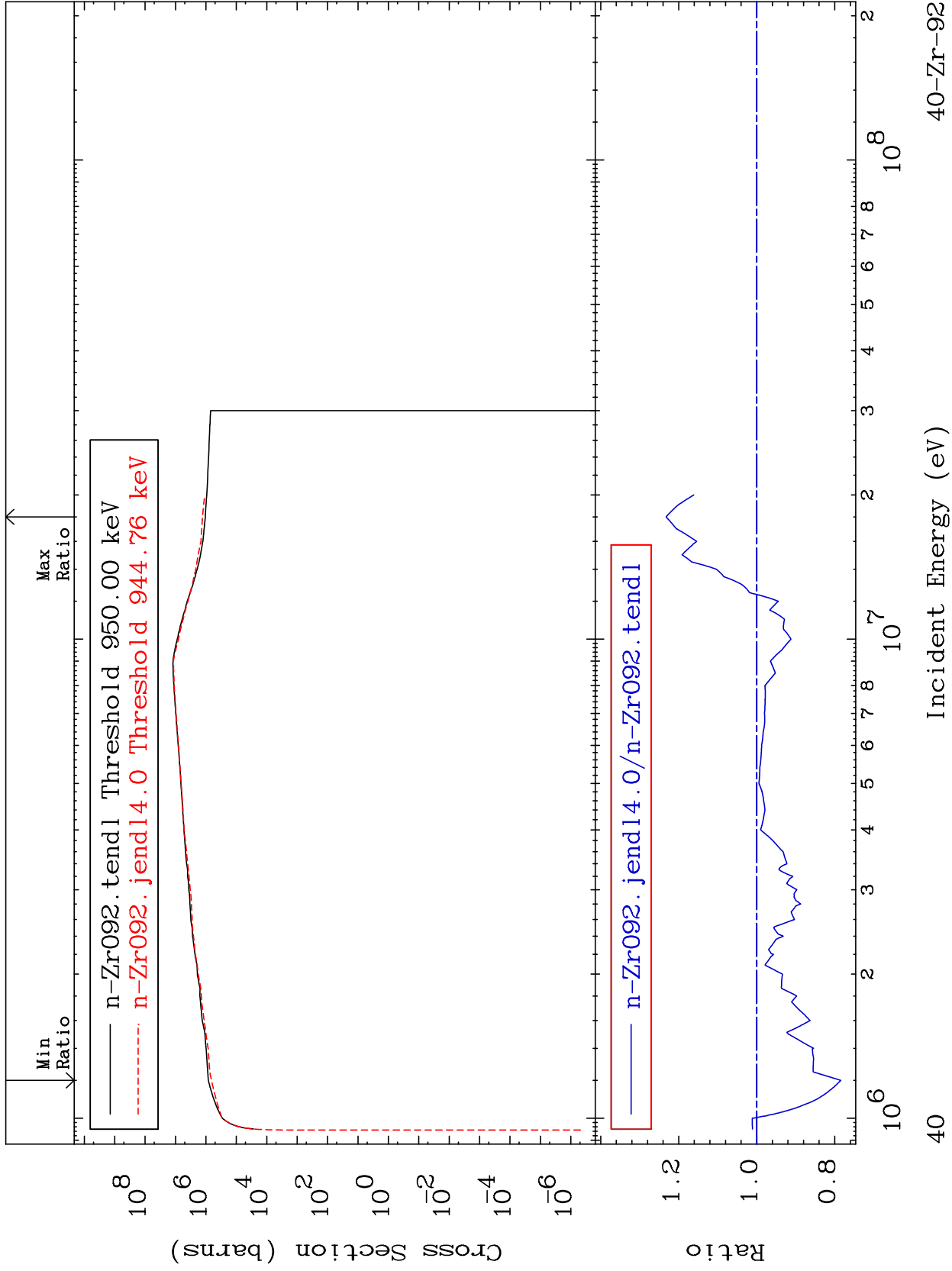


MAT 4031

Kerma inelastic (mt51-91)
Cross Section

40-Zr-92

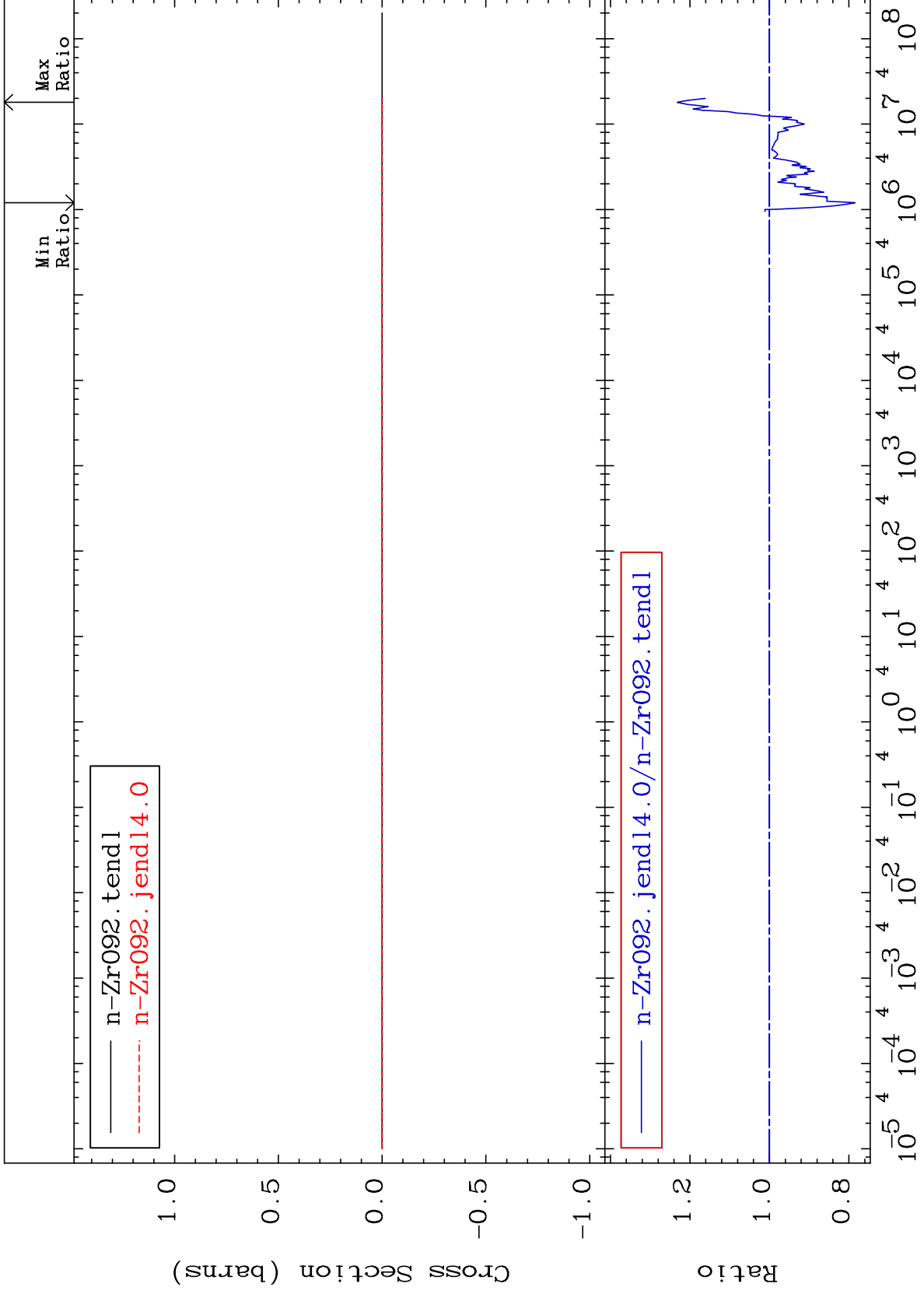
-21.56 To 23.27 %



MAT 4031

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

40-Zr-92
-21.56 To 23.27 %



41

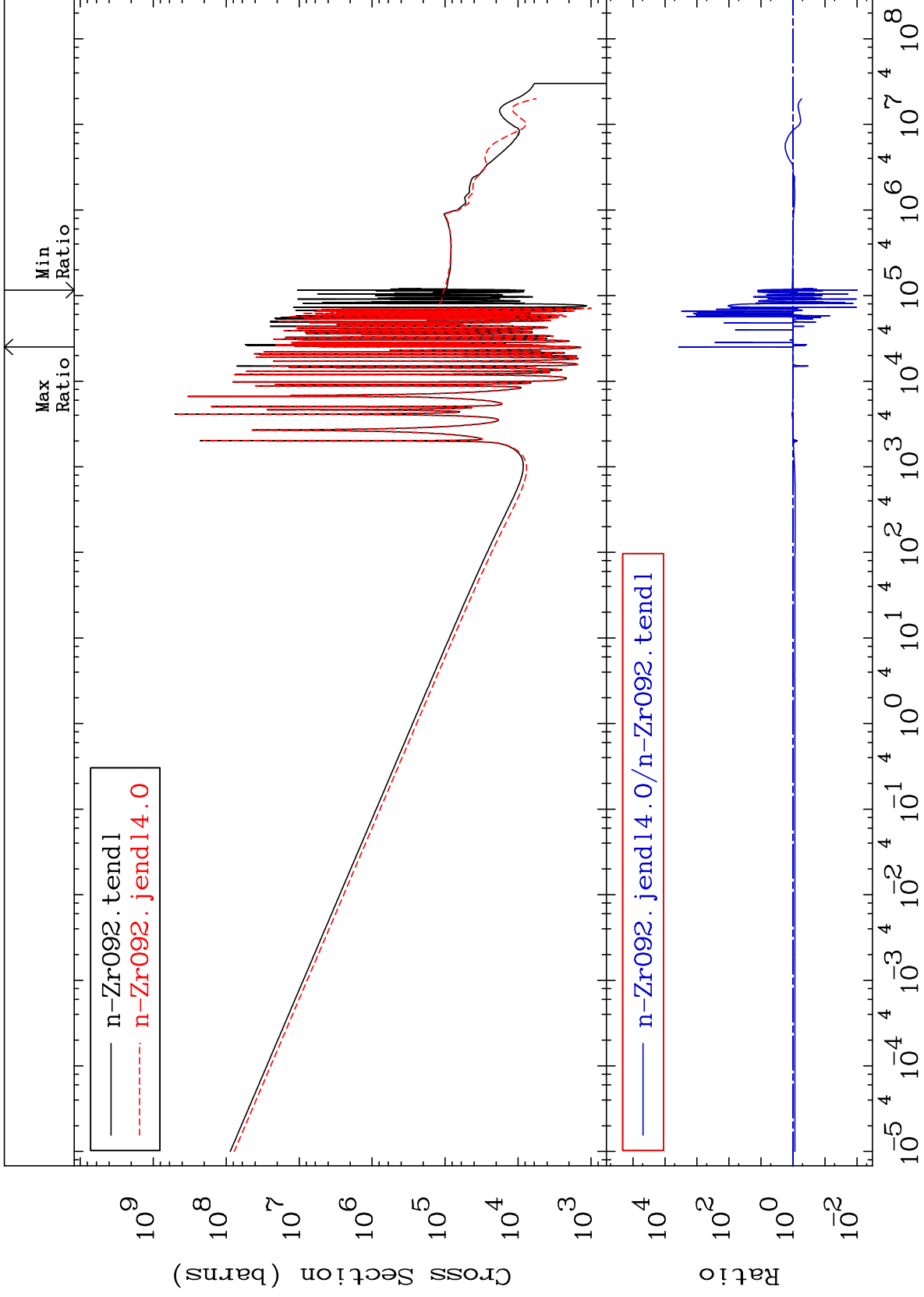
Incident Energy (eV)

40-Zr-92

MAT 4031

Kerma capture (mt102)
Cross Section

40-Zr-92
-99.02 To 9999. %



42

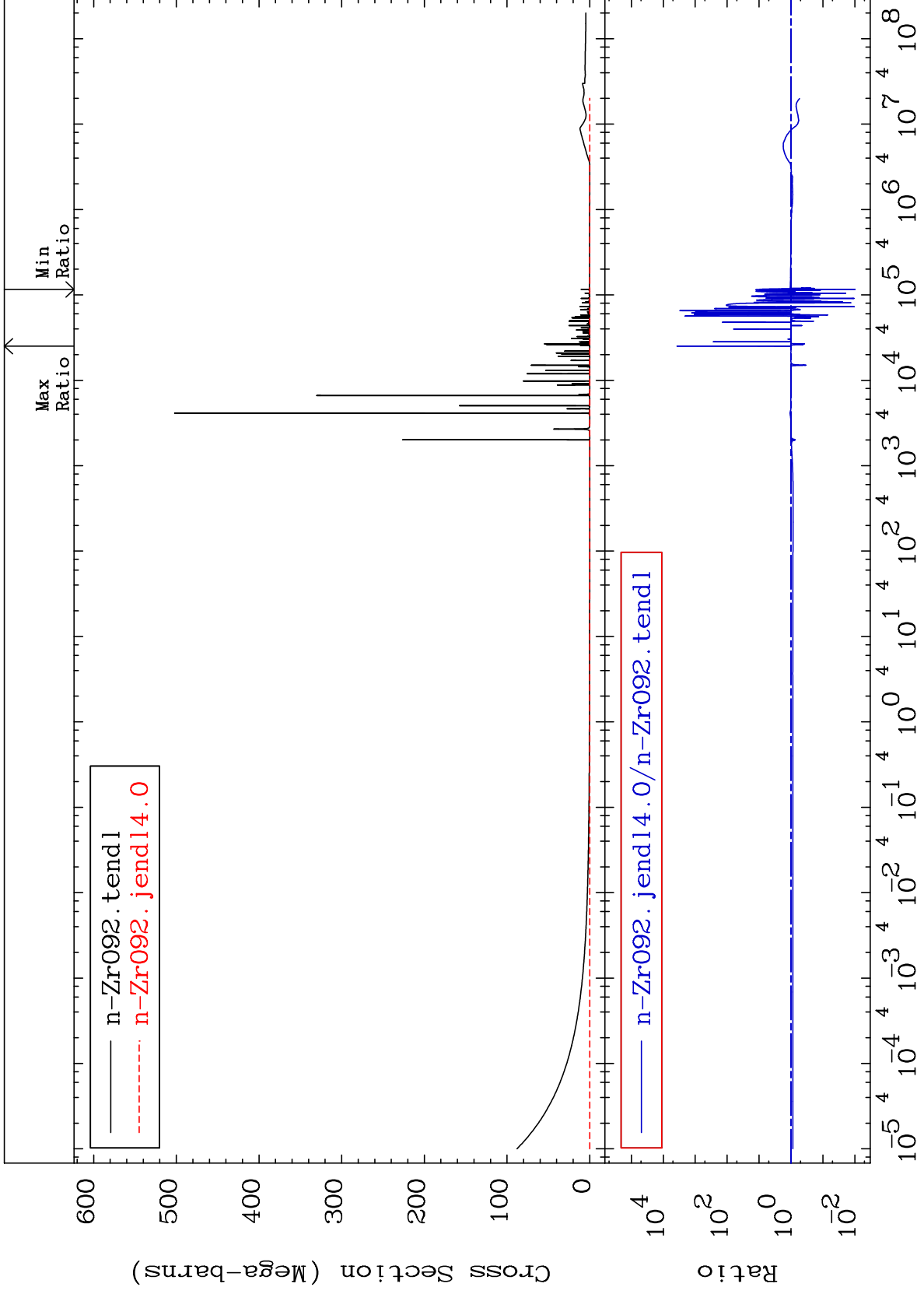
Incident Energy (eV)

40-Zr-92

MAT 4031

Total photon (eV-barns)
Cross Section

40-Zr-92
-99.02 To 9999. %

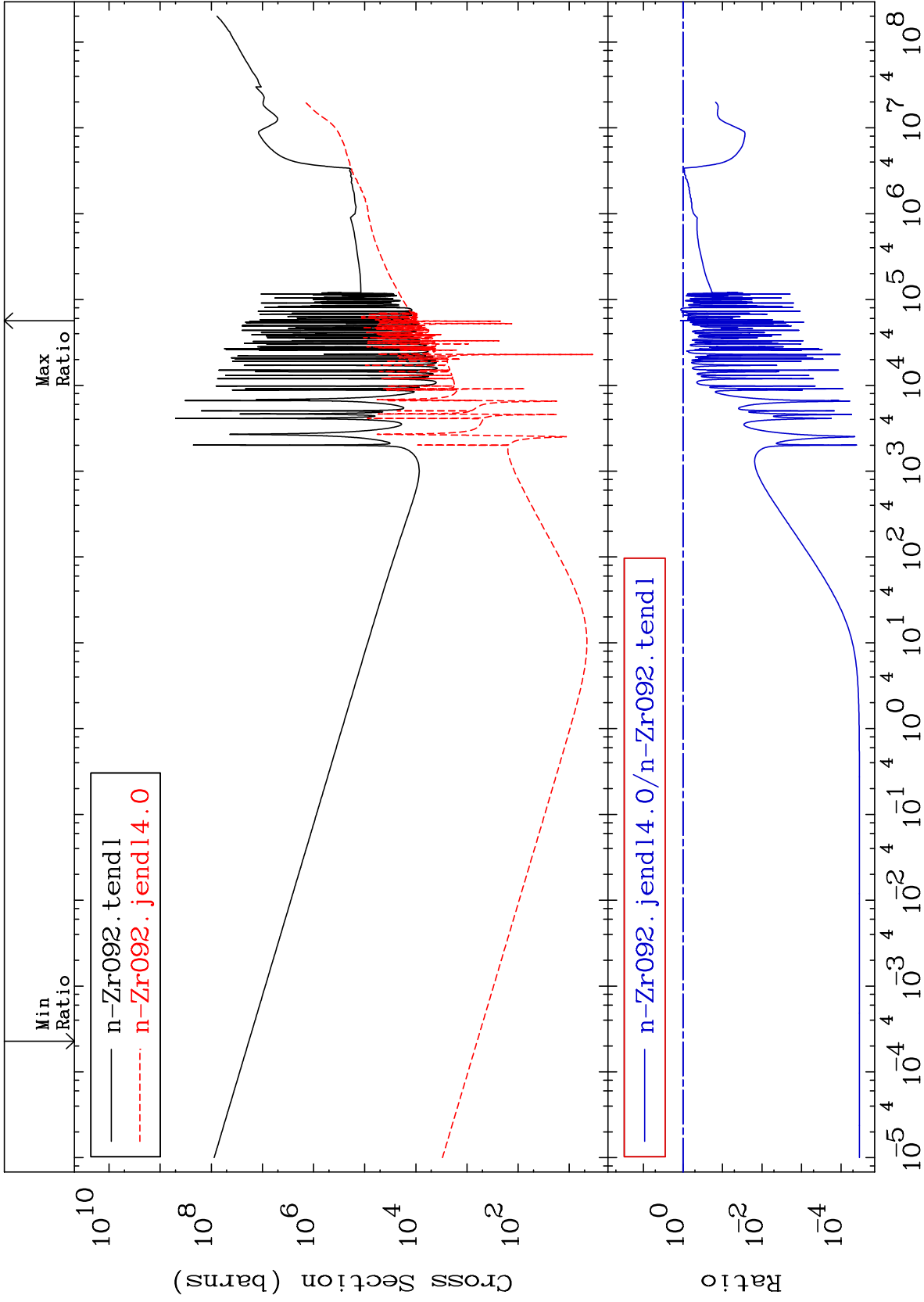


43

Incident Energy (eV)

40-Zr-92

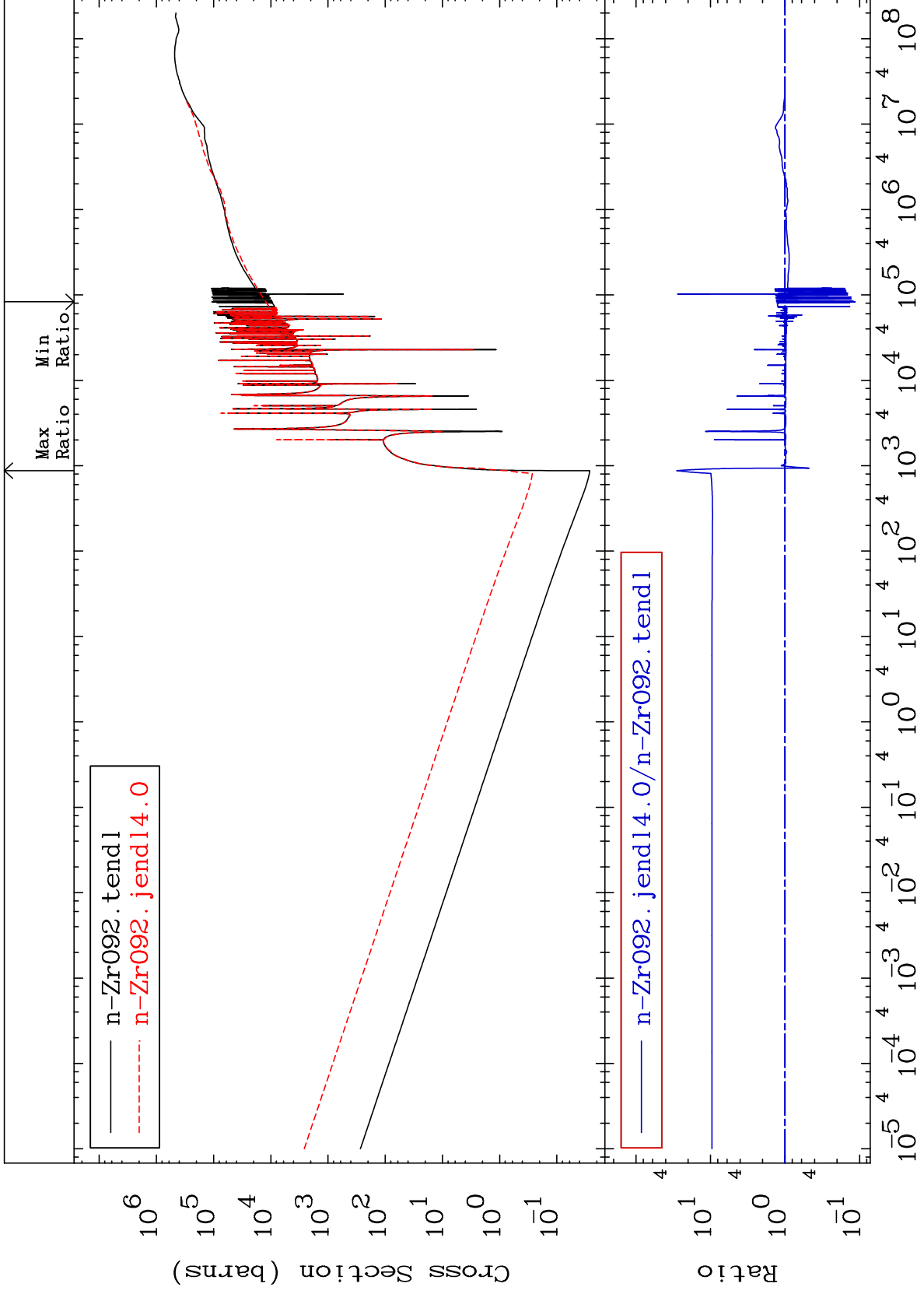
MAT 4031 Total kinematic kerma (high limit) 40-Zr-92
 Cross Section -100.0 To 16.65 %



MAT 4031

Dpa total (eV-barns)
Cross Section

40-Zr-92
-88.52 To 2729. %



45

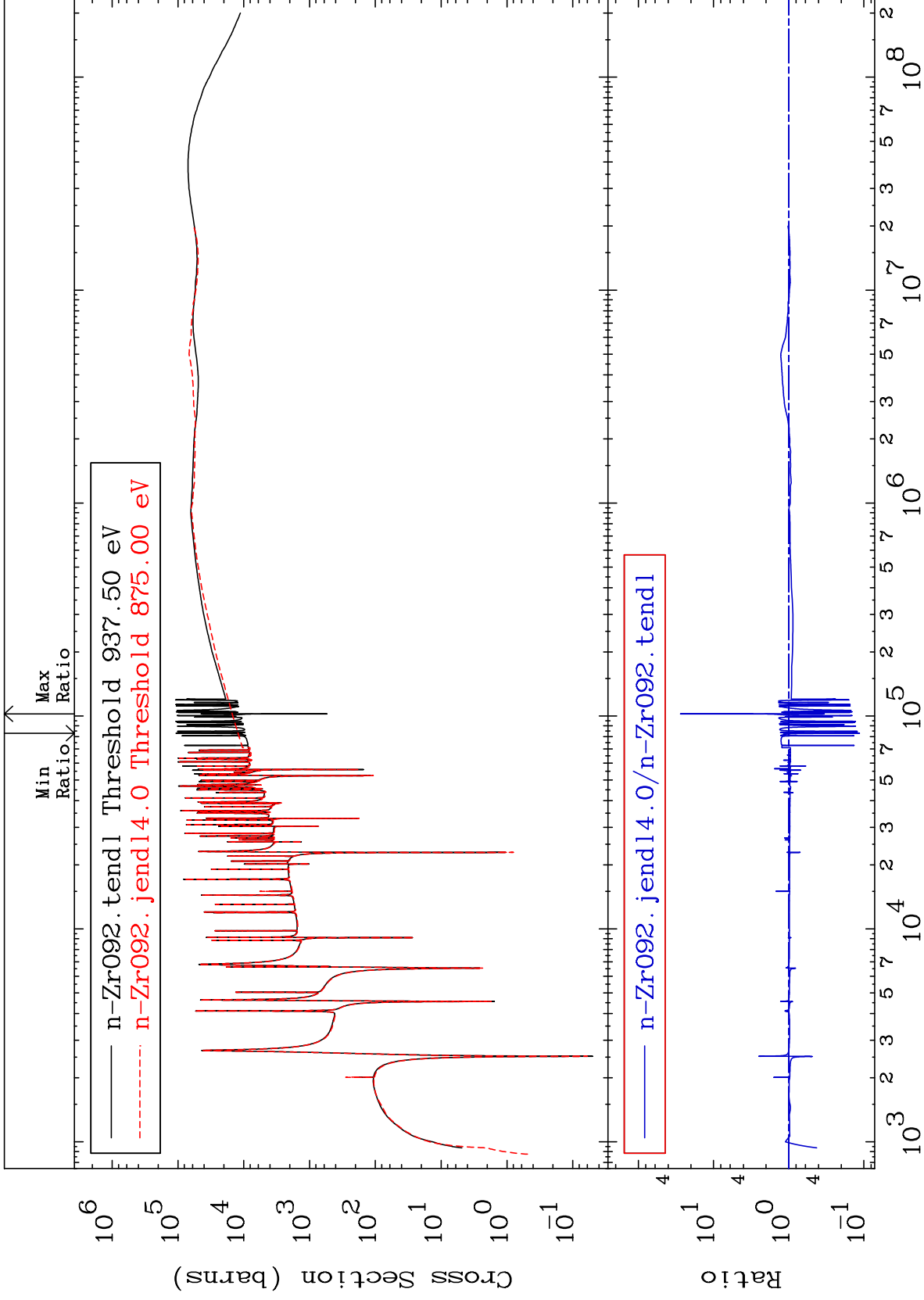
Incident Energy (eV)

40-Zr-92

MAT 4031

Dpa elastic (mt2)
Cross Section

40-Zr-92
-88.54 To 2664. %



46

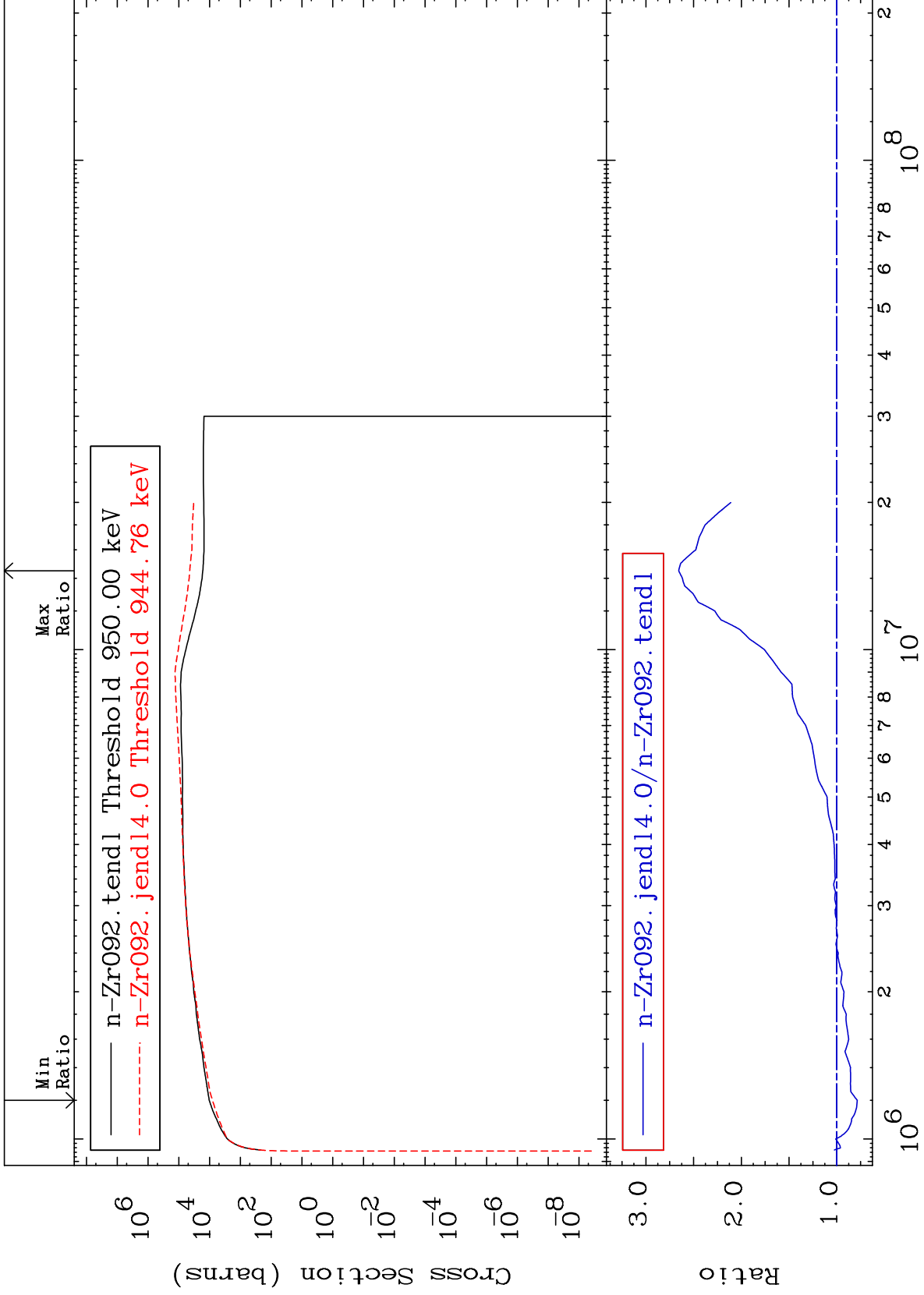
Incident Energy (eV)

40-Zr-92

MAT 4031

Dpa inelastic (mt51-91)
Cross Section

40-Zr-92
-21.48 To 165.7 %



47

40-Zr-92

40-Zr-92

MAT 4031

Dpa disappearance (mt102 -120)
Cross Section

40-Zr-92
-57.00 To 9999. %

