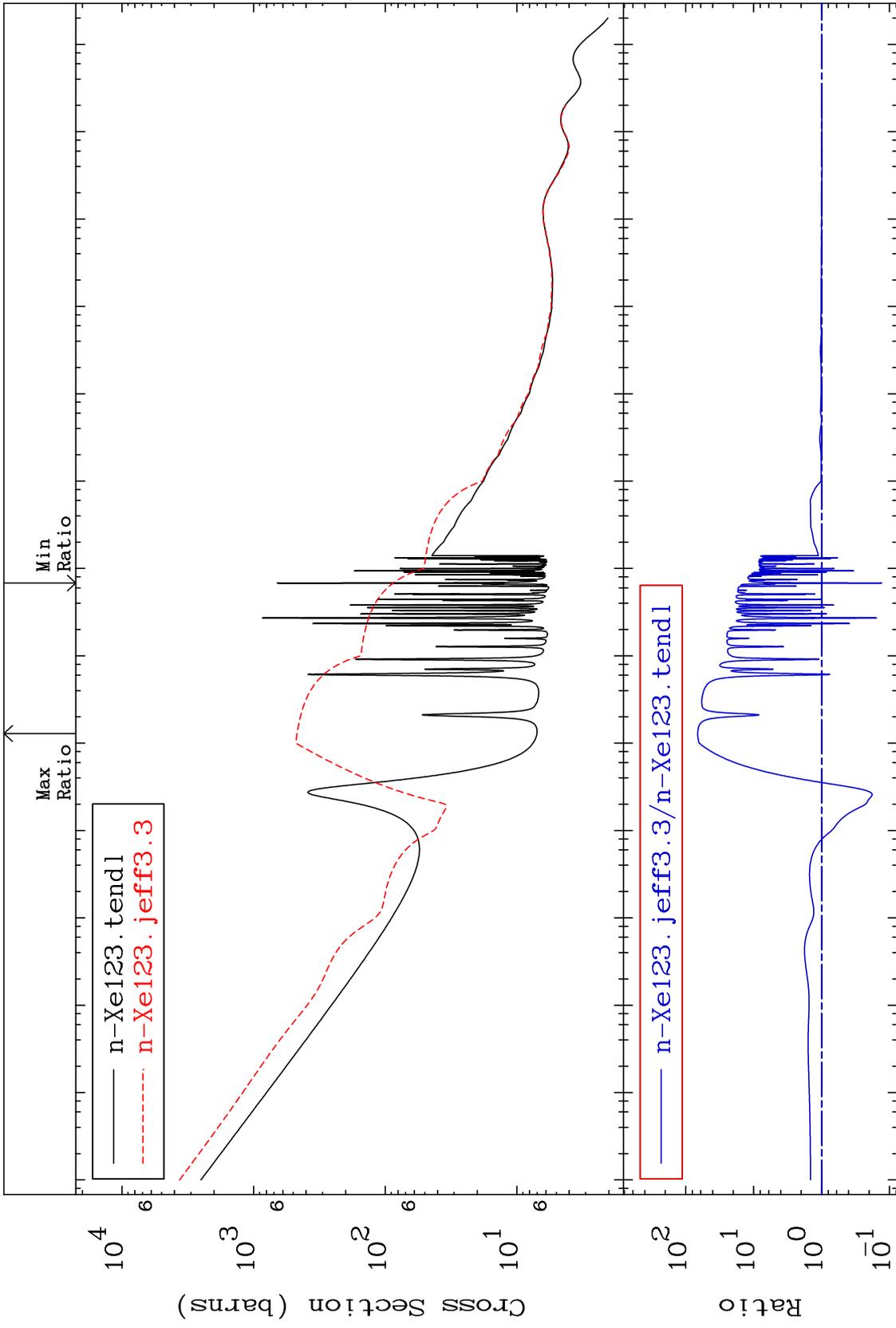


MAT 5422

Total Cross Section
54-Xe-123
-86.90 To 6541. %

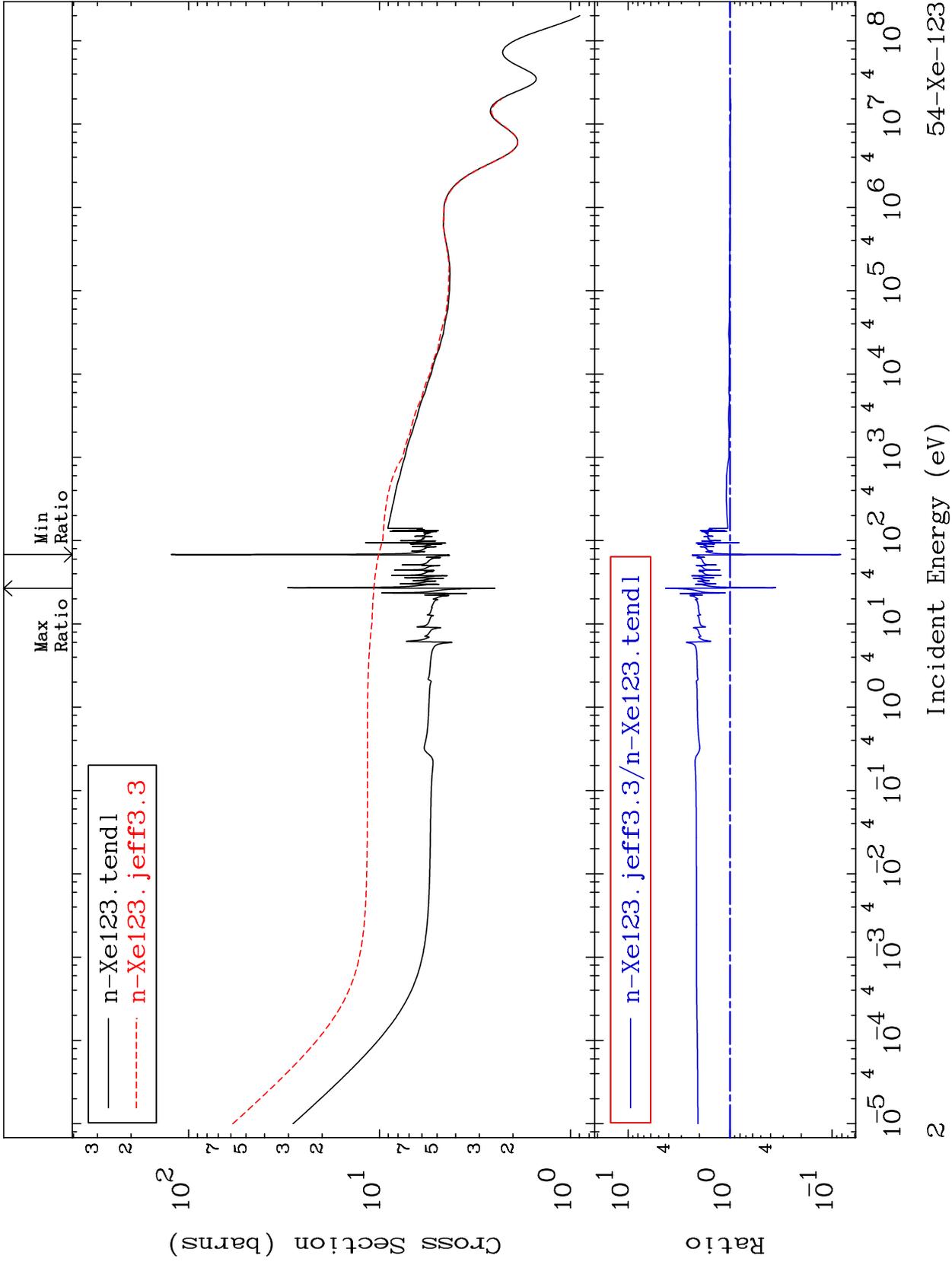


Incident Energy (eV)

54-Xe-123

MAT 5422

Elastic Cross Section
54-Xe-123
-91.81 To 329.5 %



MAT 5422

Inelastic
Cross Section

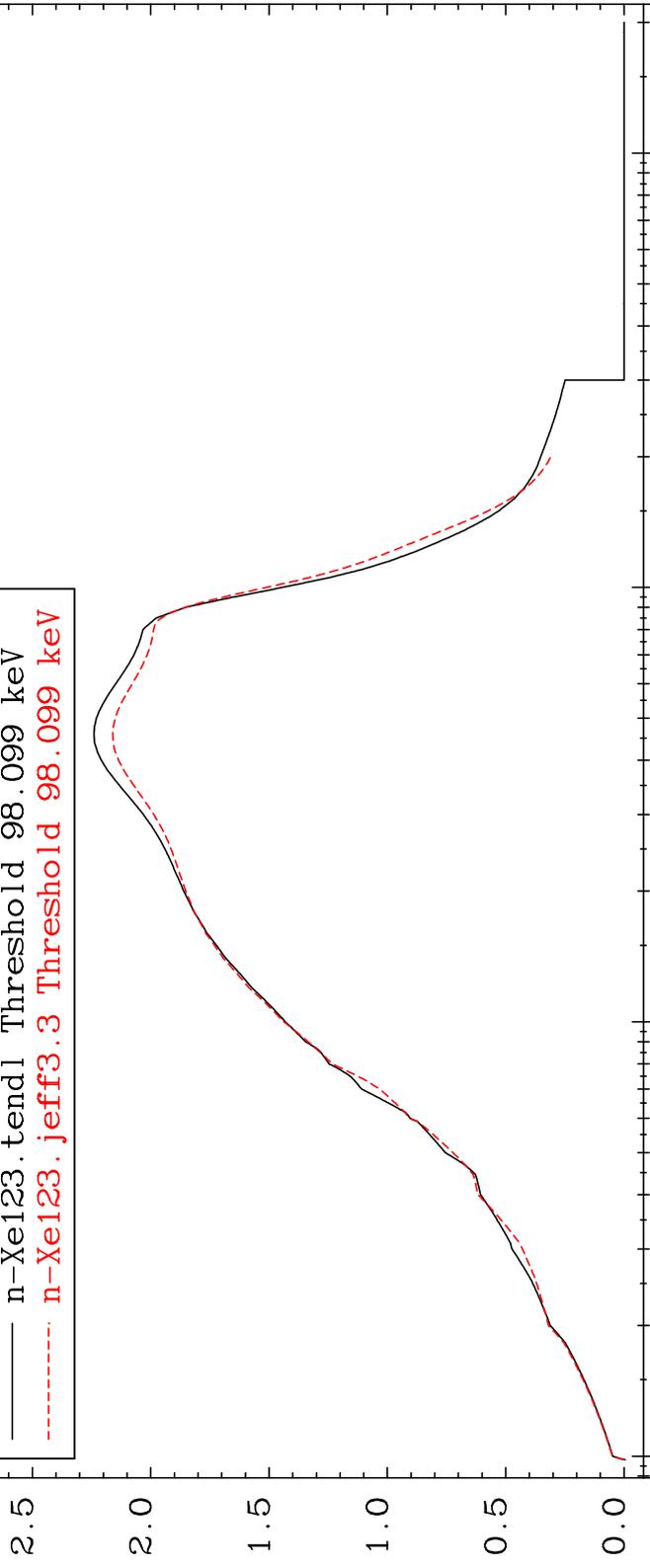
54-Xe-123
-12.19 To 13.33 %

— n-Xe123.tendl Threshold 98.099 keV
- - - n-Xe123.jeff3.3 Threshold 98.099 keV

Max
Ratio

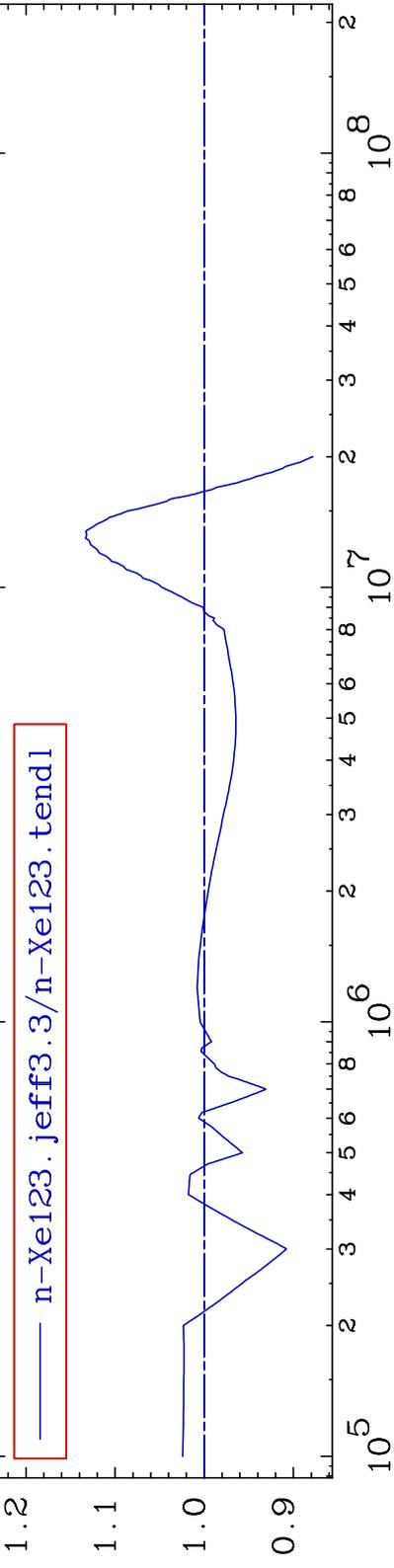
Min
Ratio

Cross Section (barns)



— n-Xe123.jeff3.3/n-Xe123.tendl

Ratio



Incident Energy (eV)

54-Xe-123

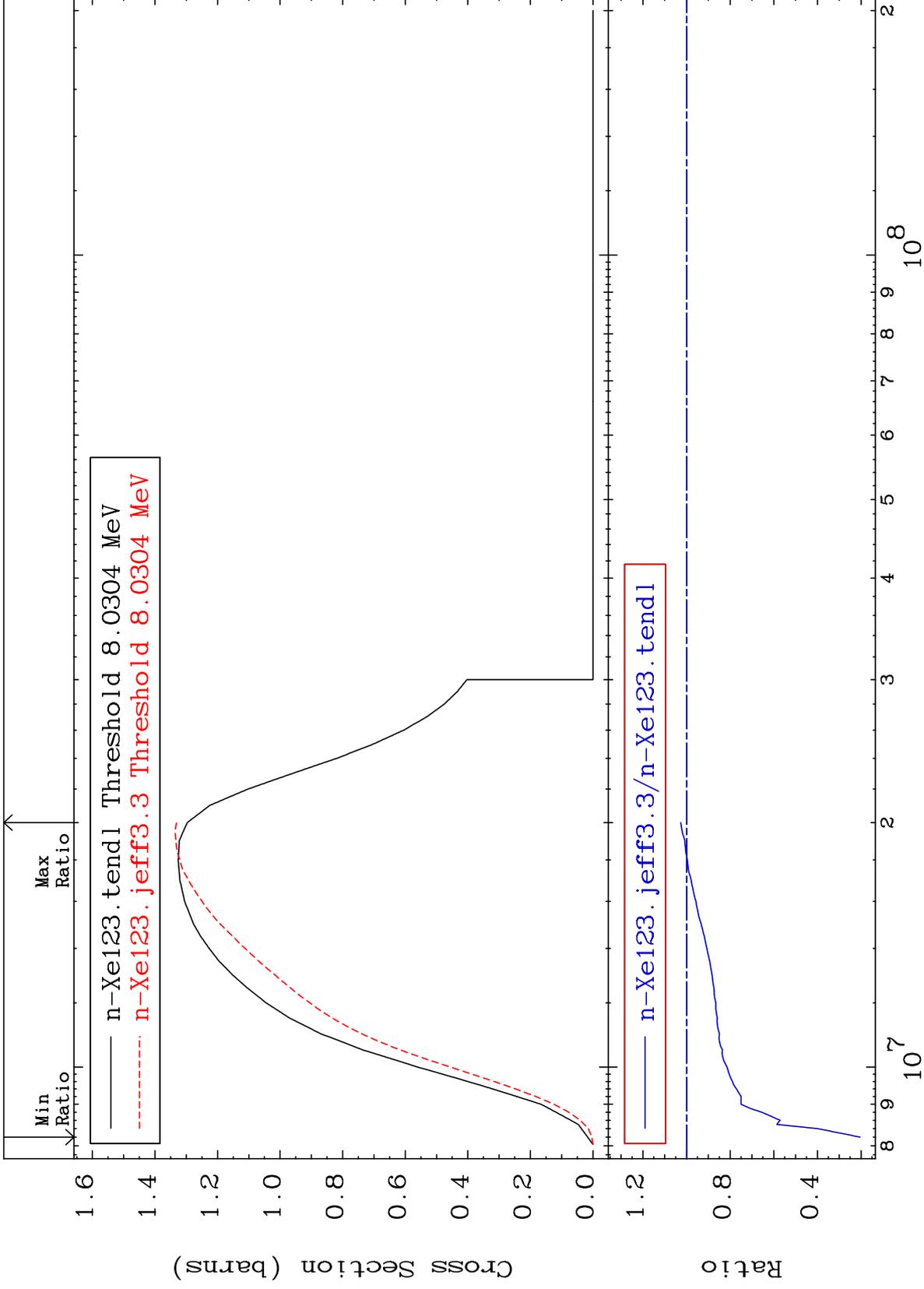
MAT 5422

(n,2n)

54-Xe-123

Cross Section

-79.56 To 2.643 %



4

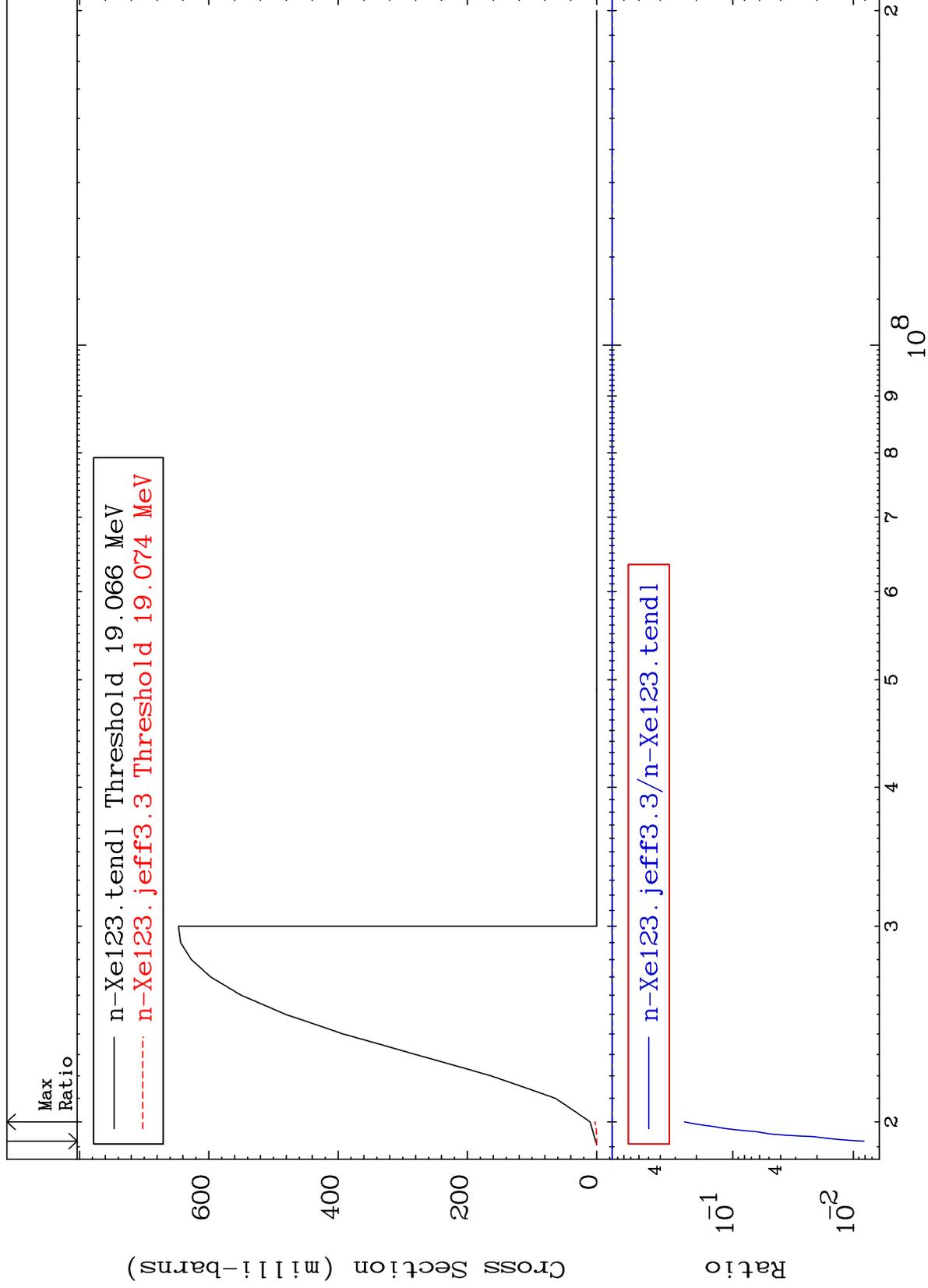
Incident Energy (eV)

54-Xe-123

MAT 5422

(n,3n)
Cross Section

54-Xe-123
-99.19 To -74.89%



5

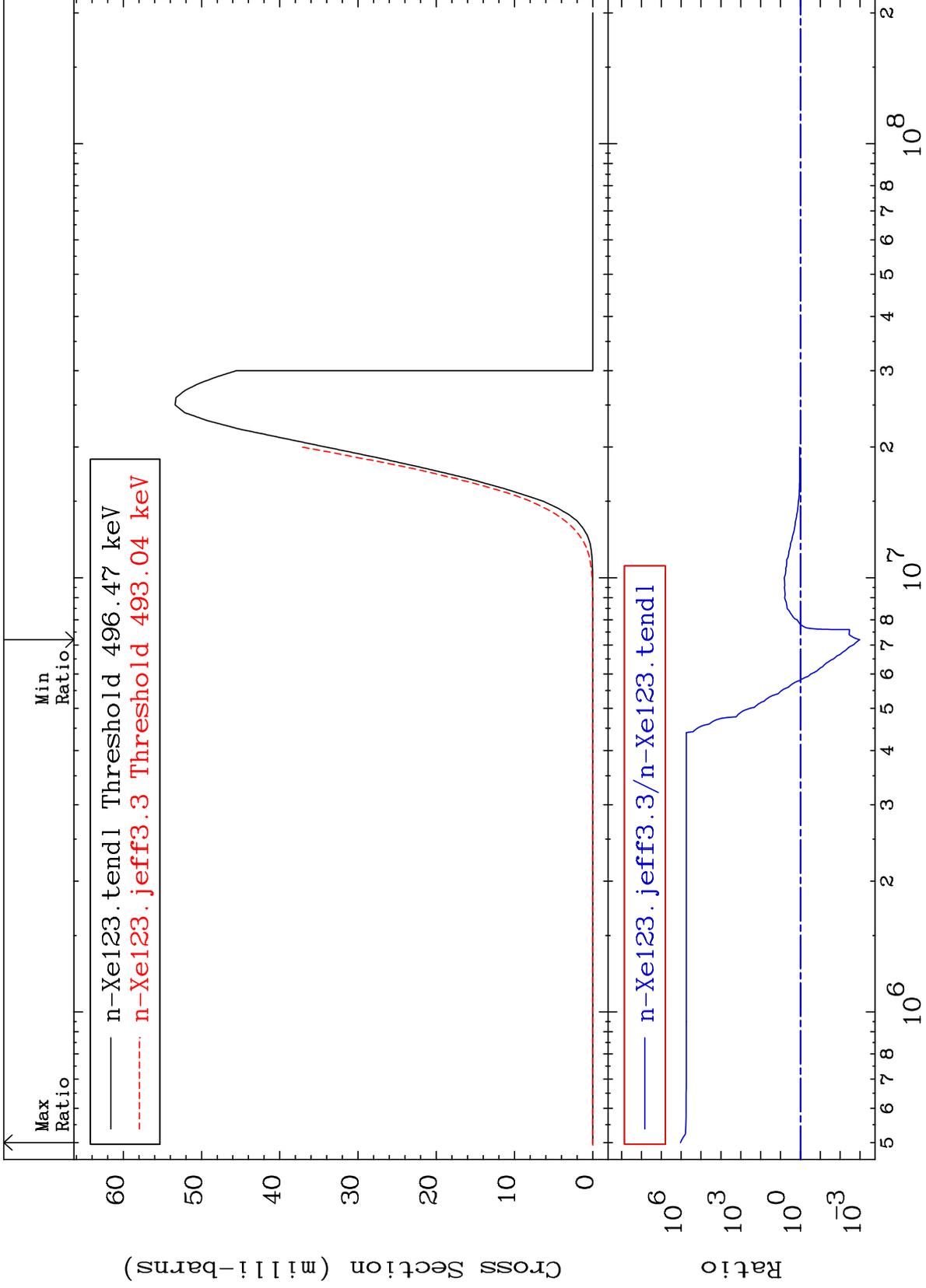
Incident Energy (eV)

54-Xe-123

MAT 5422

(n,n') α
Cross Section

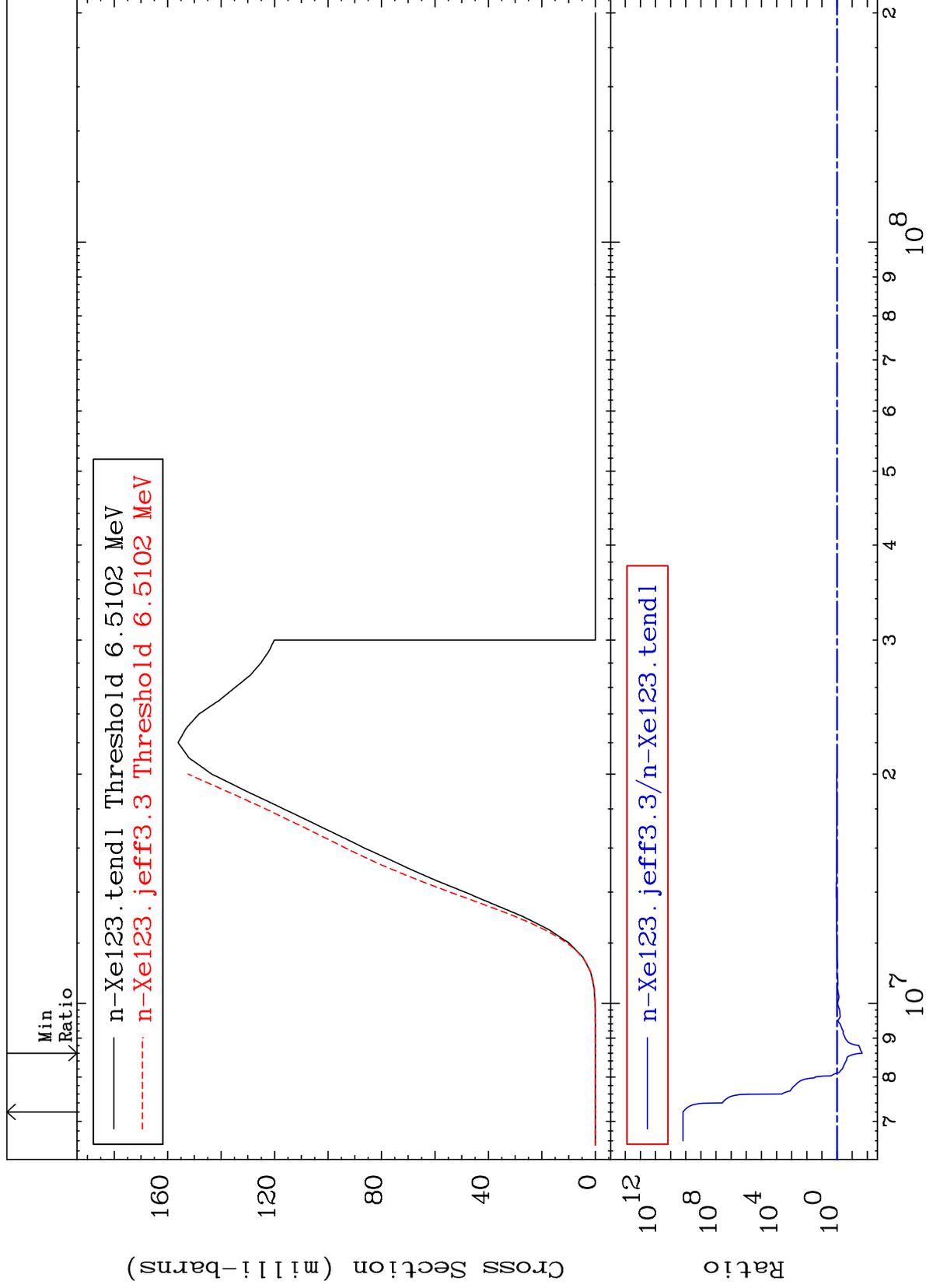
54-Xe-123
-99.90 To 9999. %



MAT 5422

(n,n') p
Cross Section

54-Xe-123
-97.80 To 9999. %



7

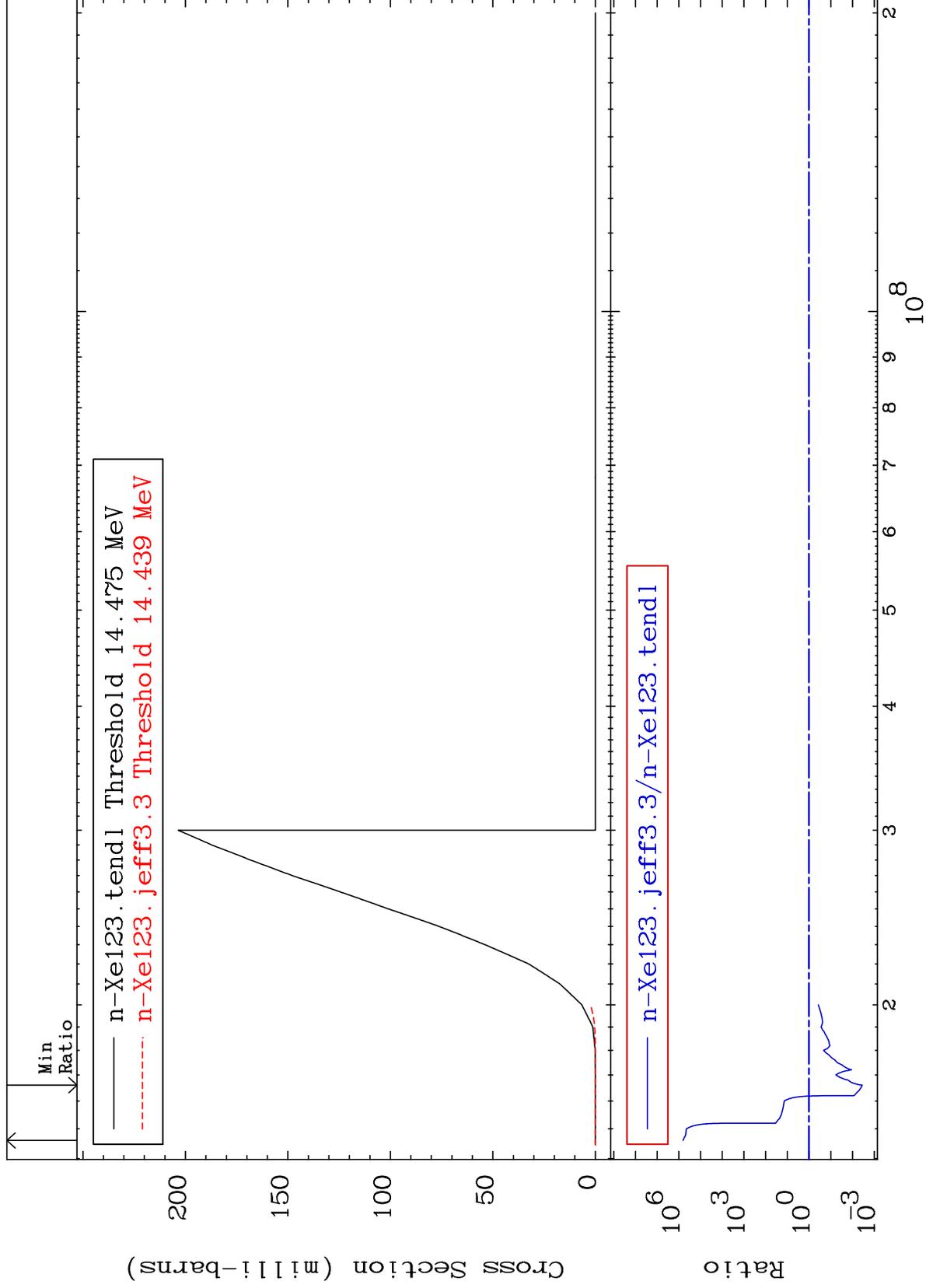
Incident Energy (eV)

54-Xe-123

MAT 5422

(n,2n) p
Cross Section

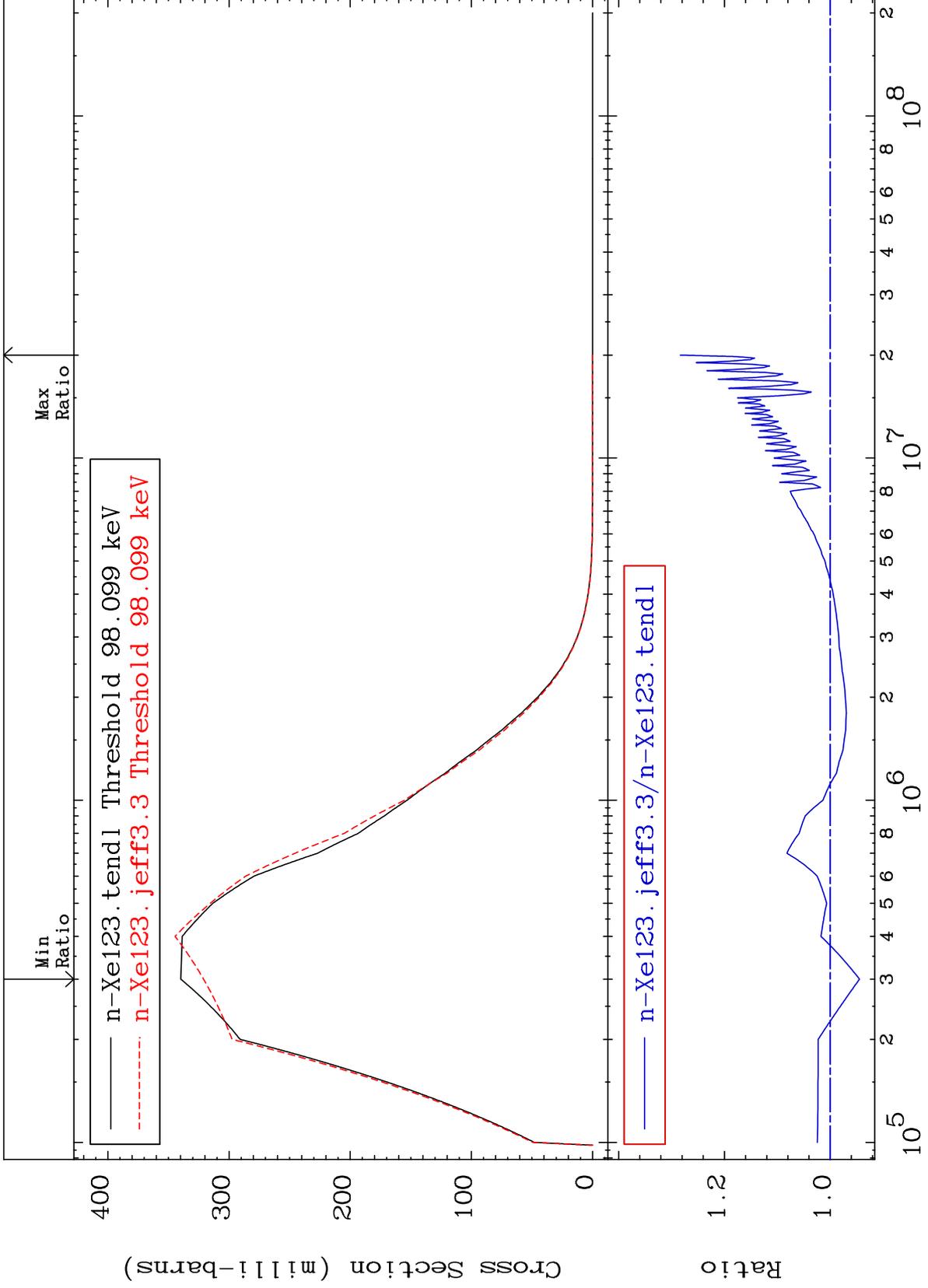
54-Xe-123
-99.64 To 9999. %



MAT 5422

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

54-Xe-123
-5.530 To 28.34 %



9

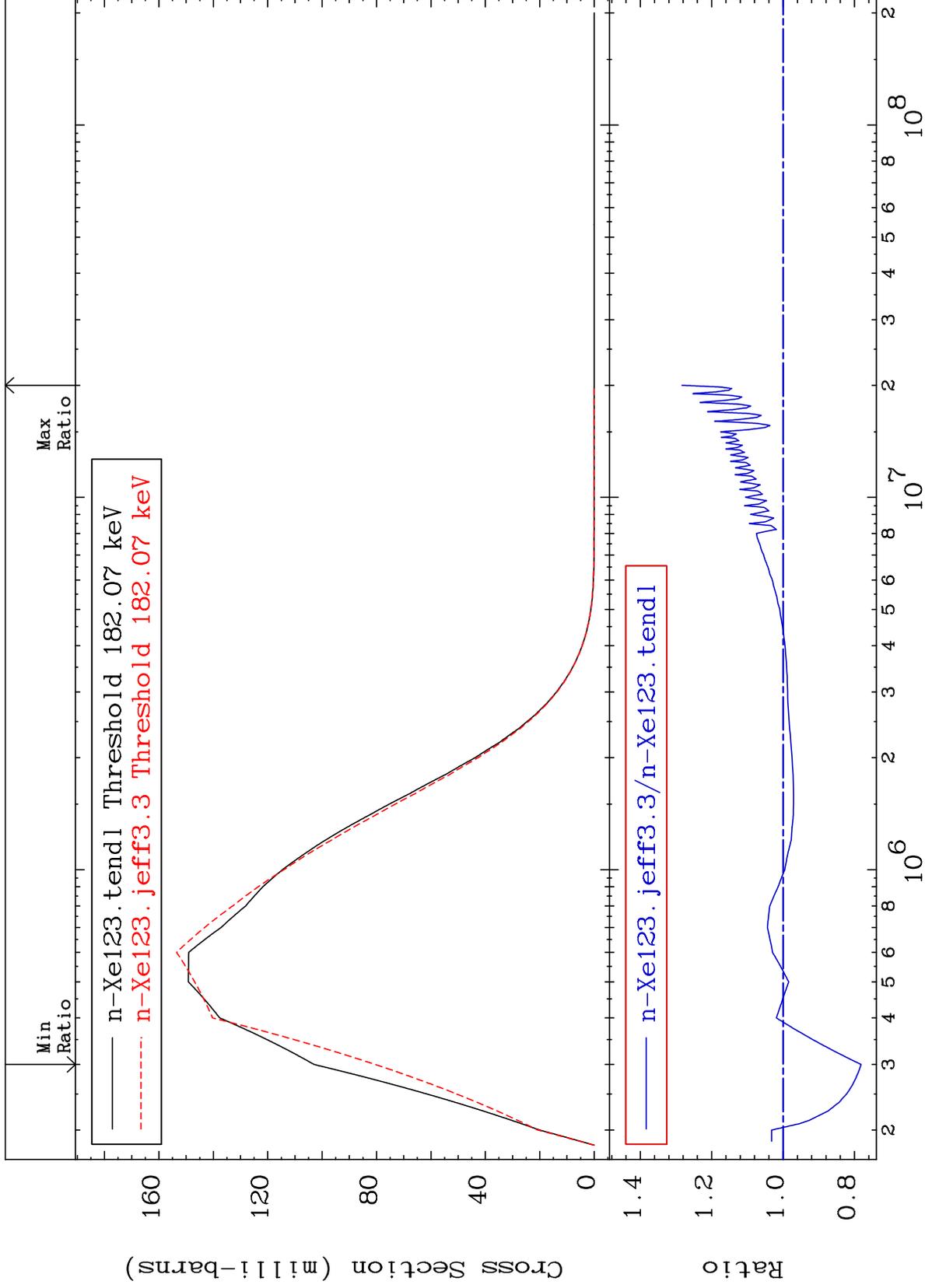
Incident Energy (eV)

54-Xe-123

MAT 5422

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

54-Xe-123
-21.84 To 28.34 %



10

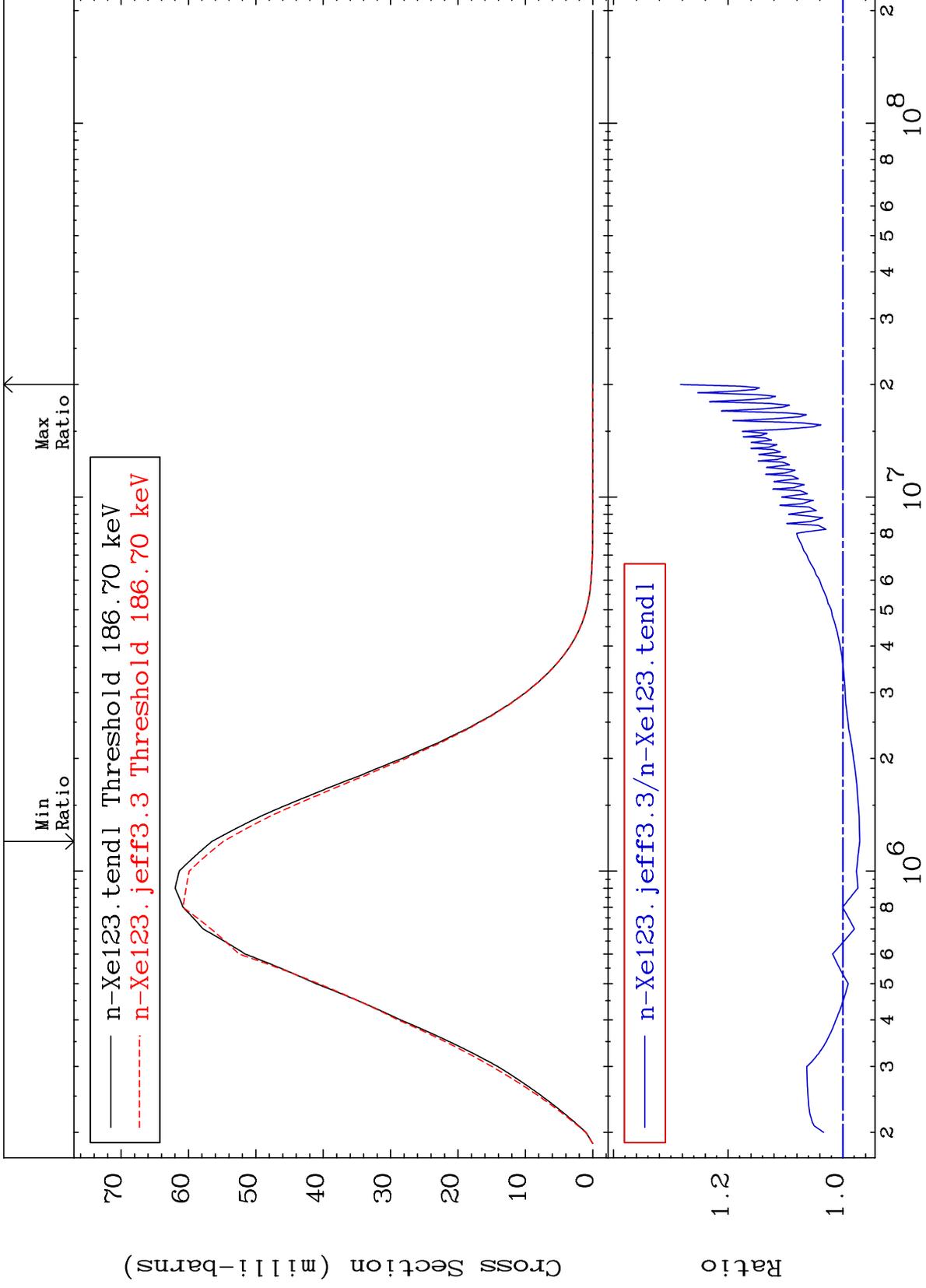
Incident Energy (eV)

54-Xe-123

MAT 5422

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

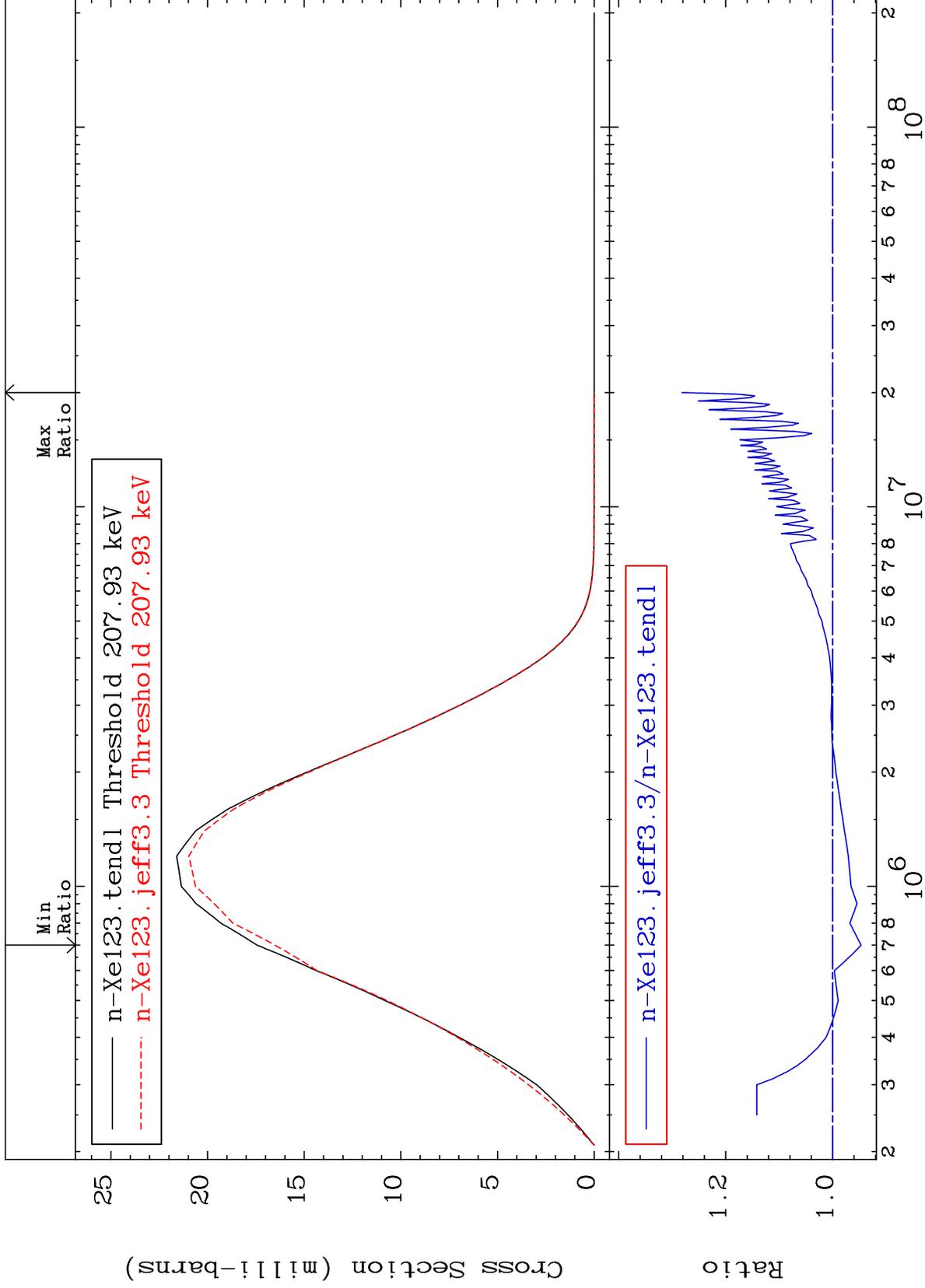
54-Xe-123
-2.968 To 28.31 %



MAT 5422

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

54-Xe-123
-5.308 To 28.19 %



12

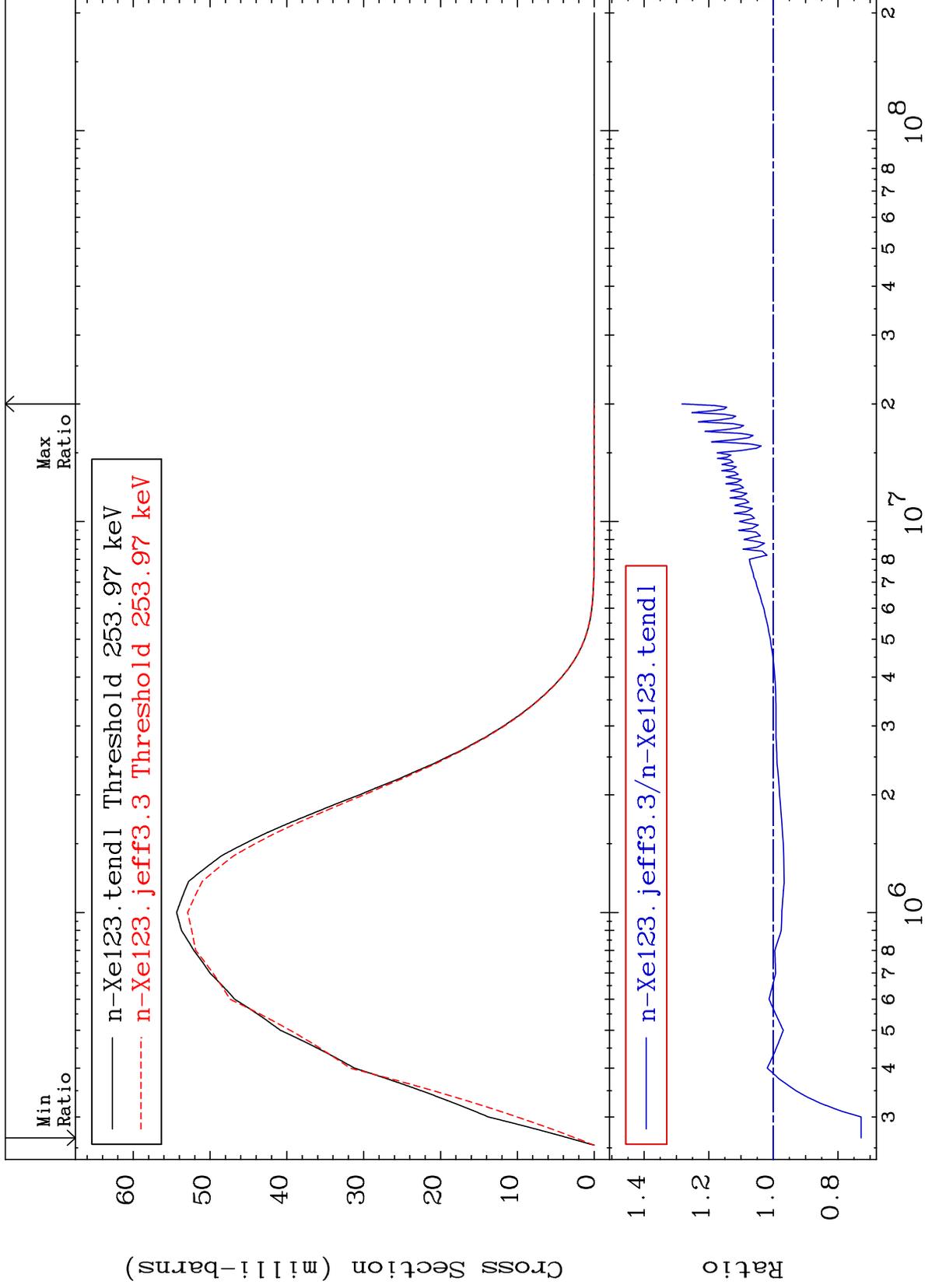
Incident Energy (eV)

54-Xe-123

MAT 5422

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

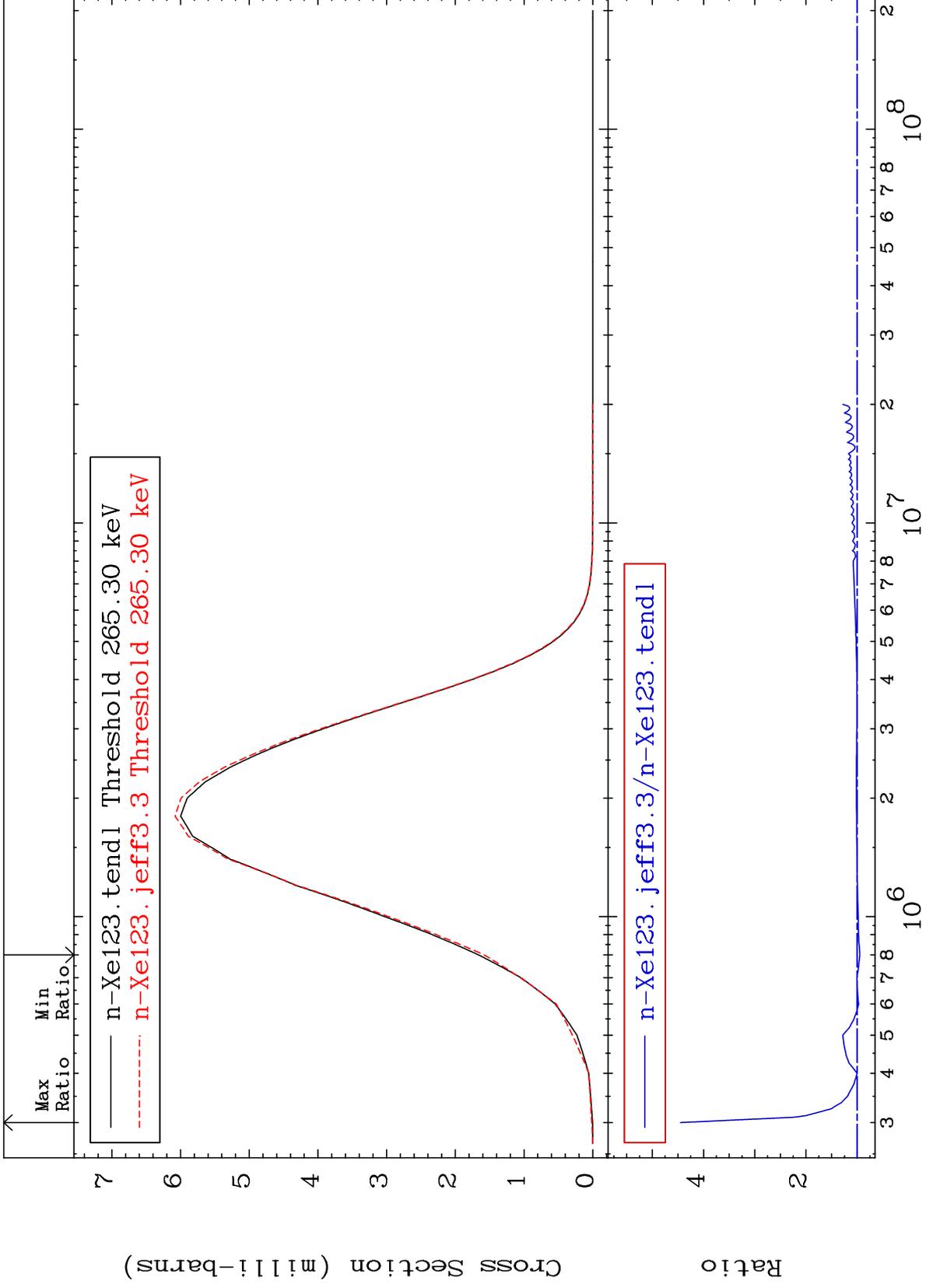
54-Xe-123
-27.20 To 28.29 %



MAT 5422

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

54-Xe-123
-4.929 To 344.9 %



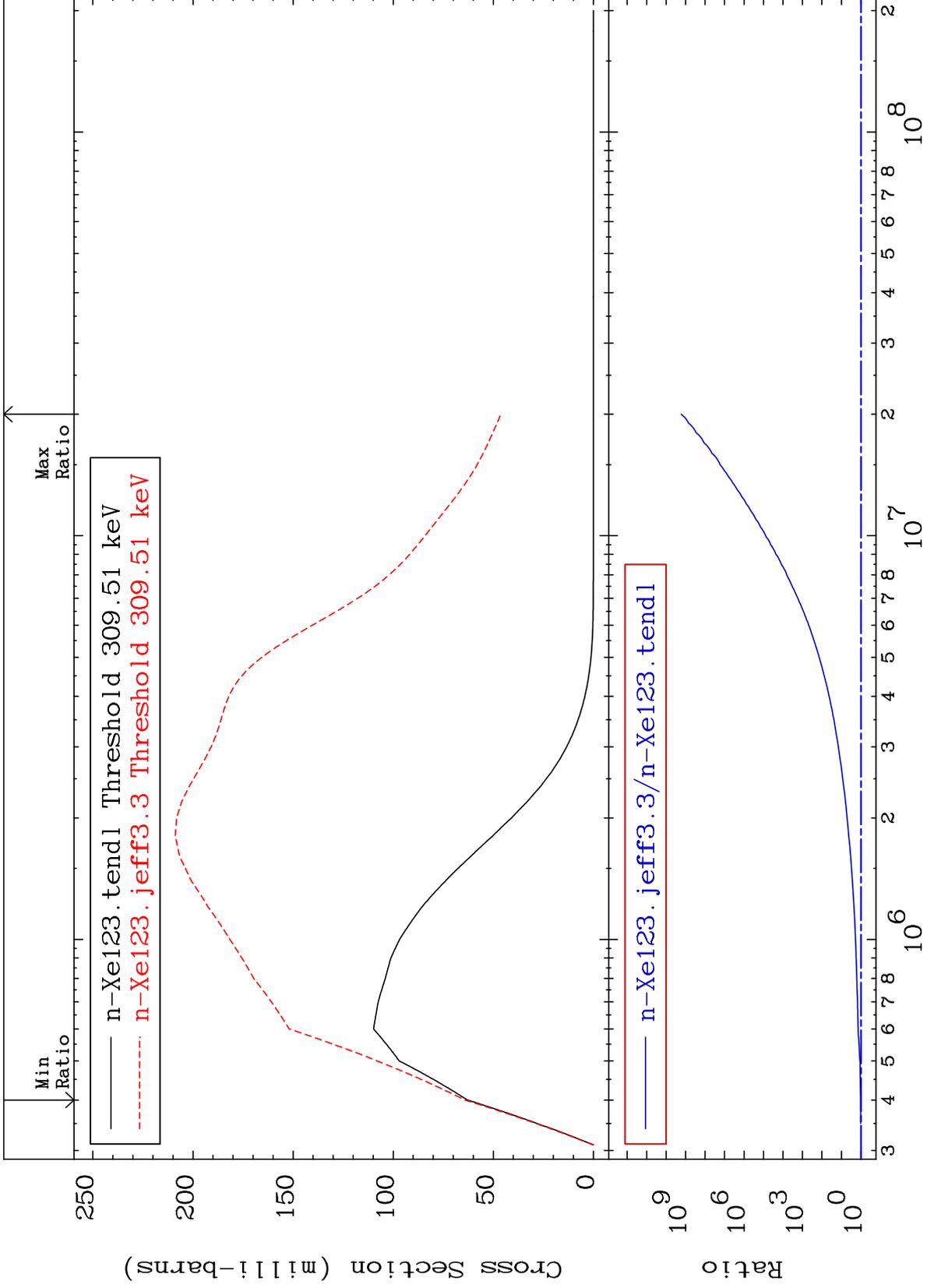
14

54-Xe-123

MAT 5422

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

54-Xe-123
1.937 To 9999. %



15

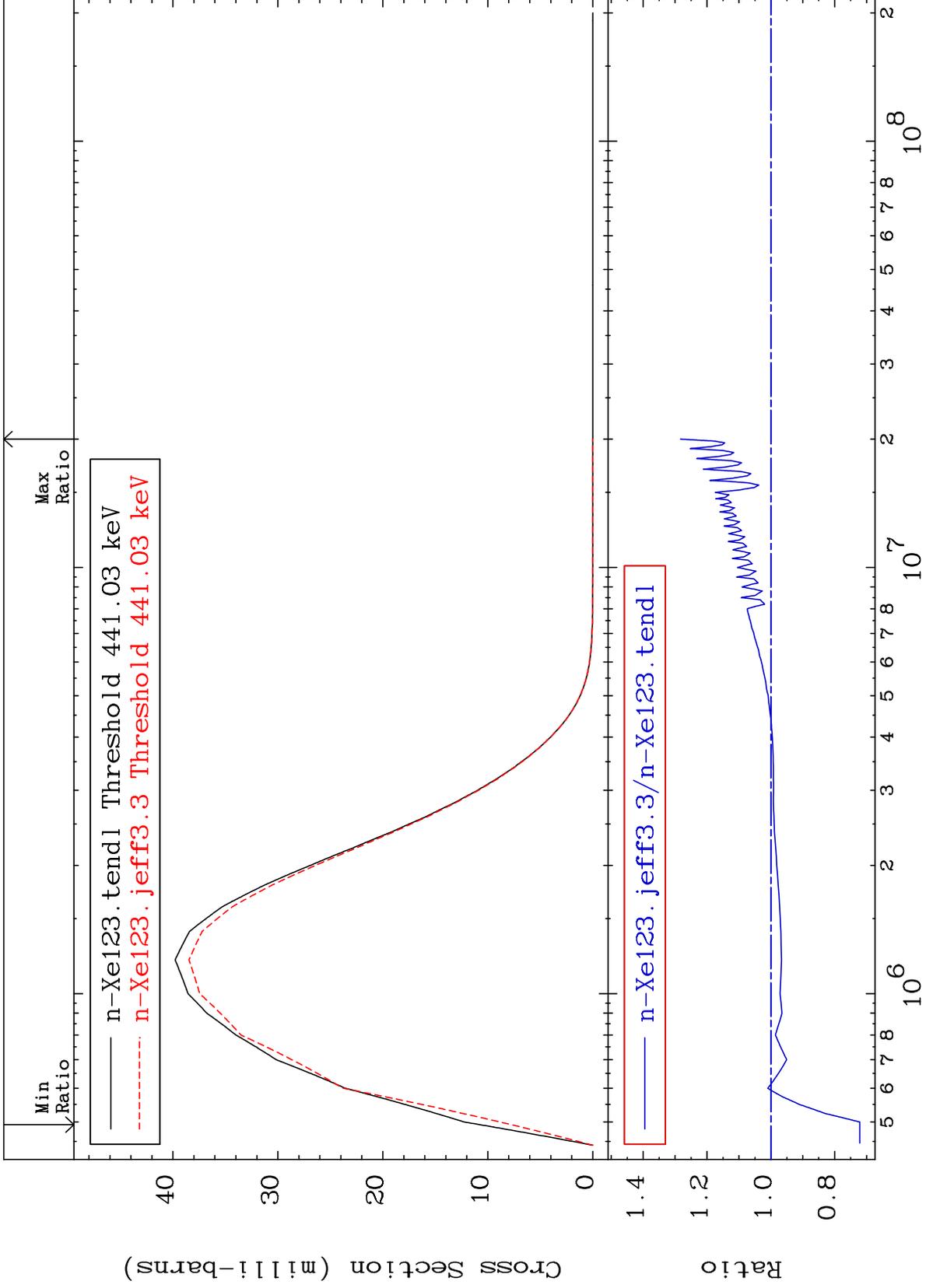
Incident Energy (eV)

54-Xe-123

MAT 5422

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

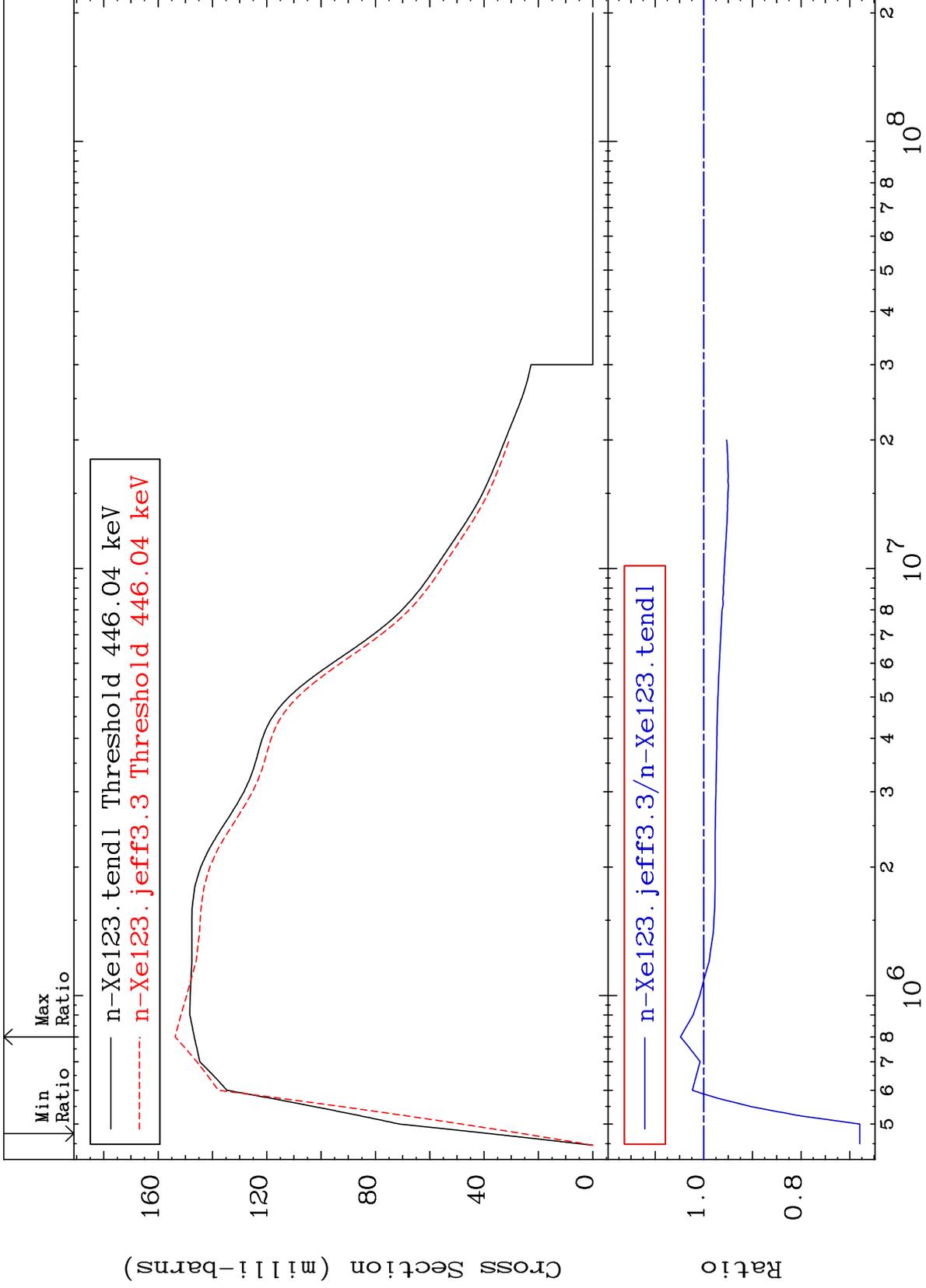
54-Xe-123
-27.85 To 28.30 %



MAT 5422

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

54-Xe-123
-32.07 To 4.804 %



17

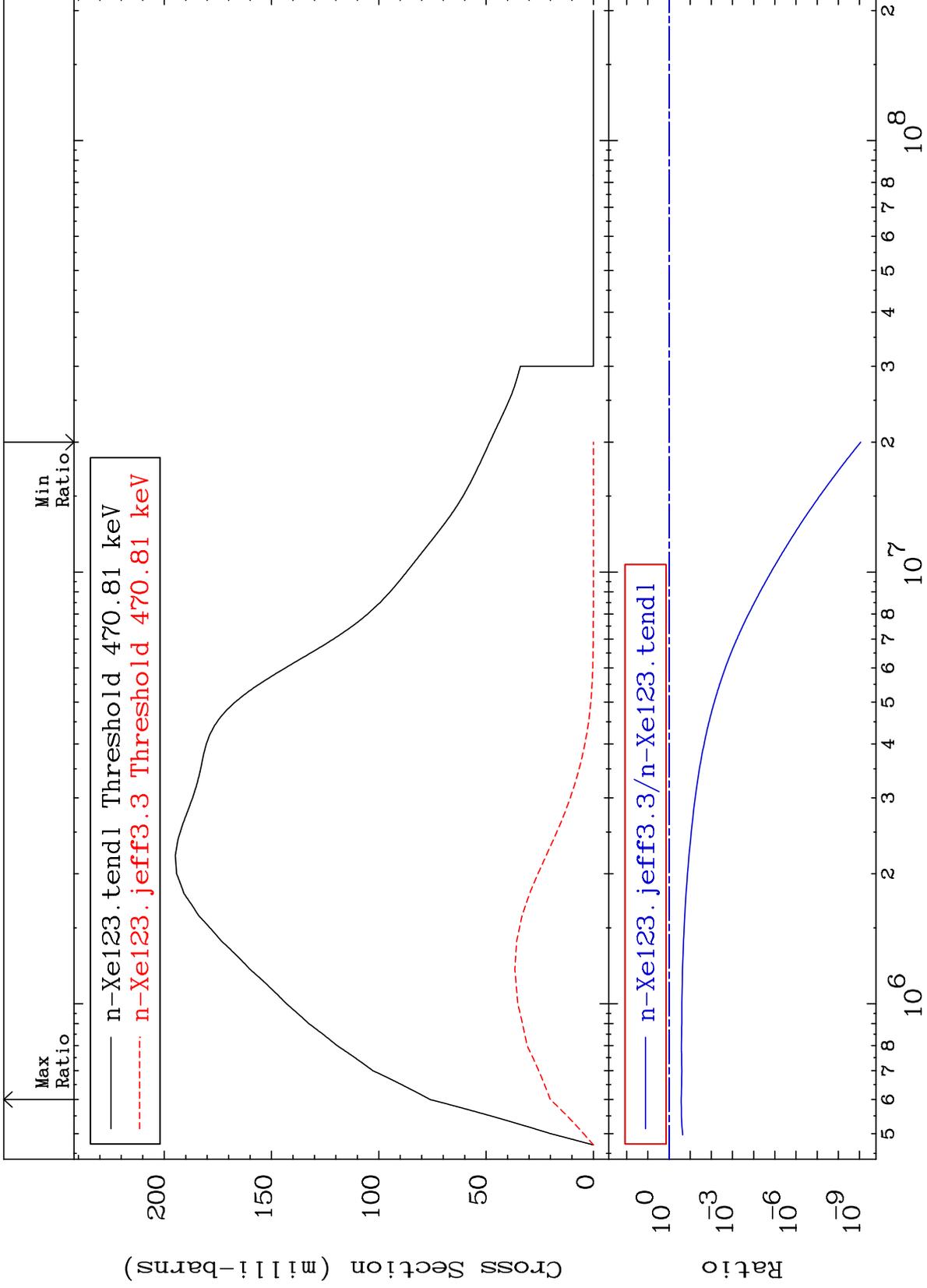
Incident Energy (eV)

54-Xe-123

MAT 5422

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

54-Xe-123
-100.0 To -73.63%



18

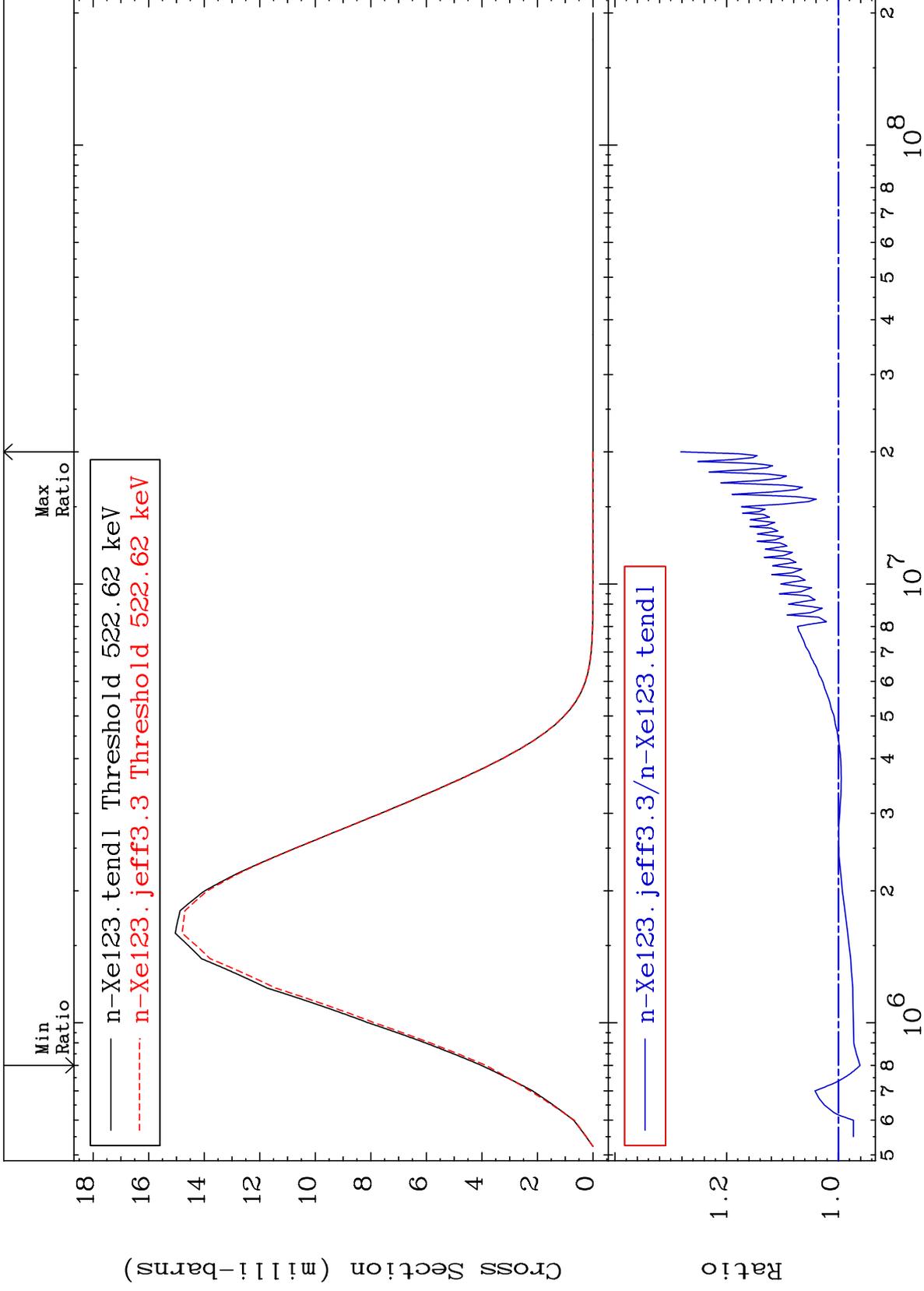
Incident Energy (eV)

54-Xe-123

MAT 5422

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

54-Xe-123
-3.894 To 28.22 %



19

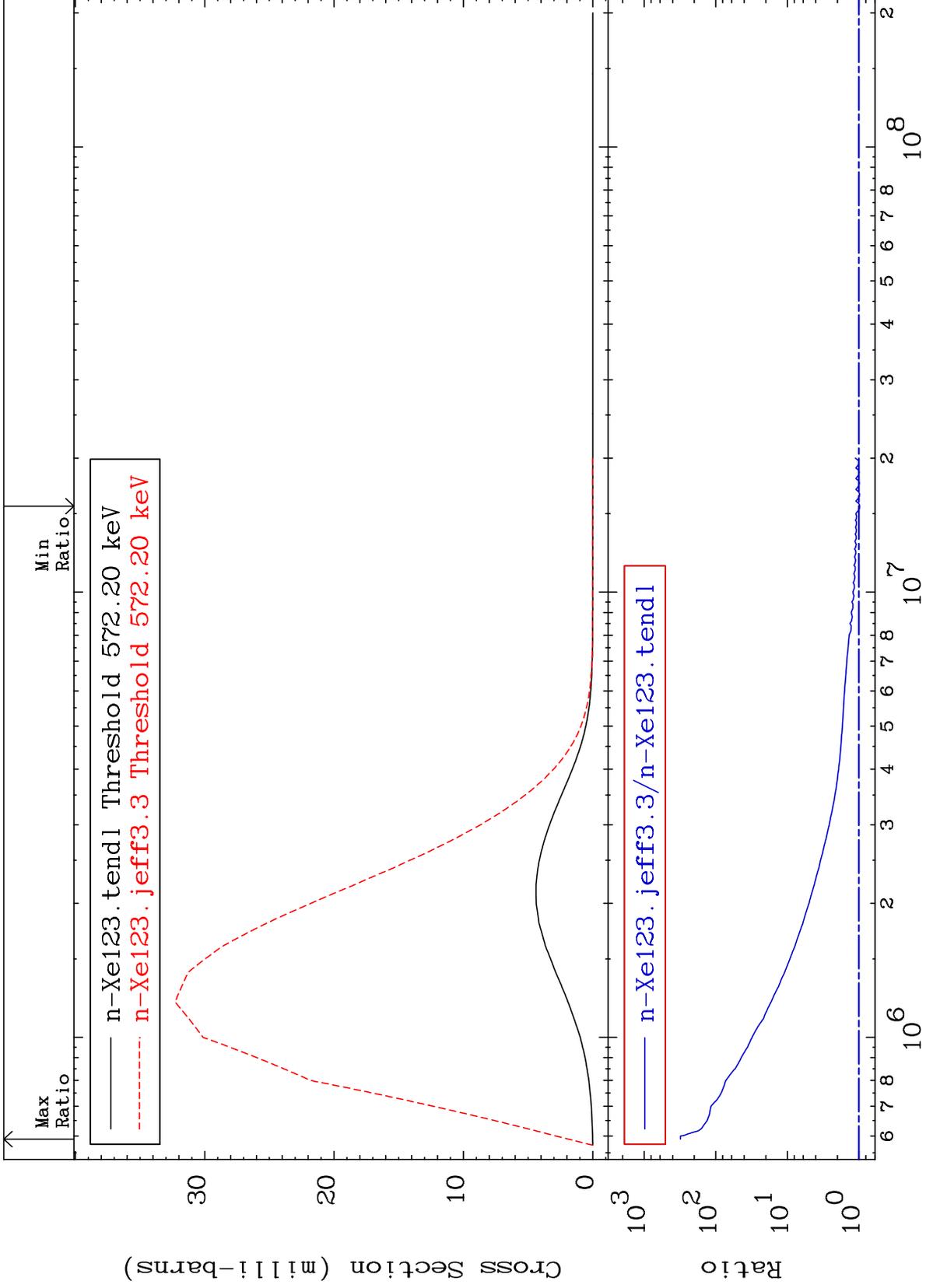
Incident Energy (eV)

54-Xe-123

MAT 5422

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

54-Xe-123
-2.833 To 9999. %



20

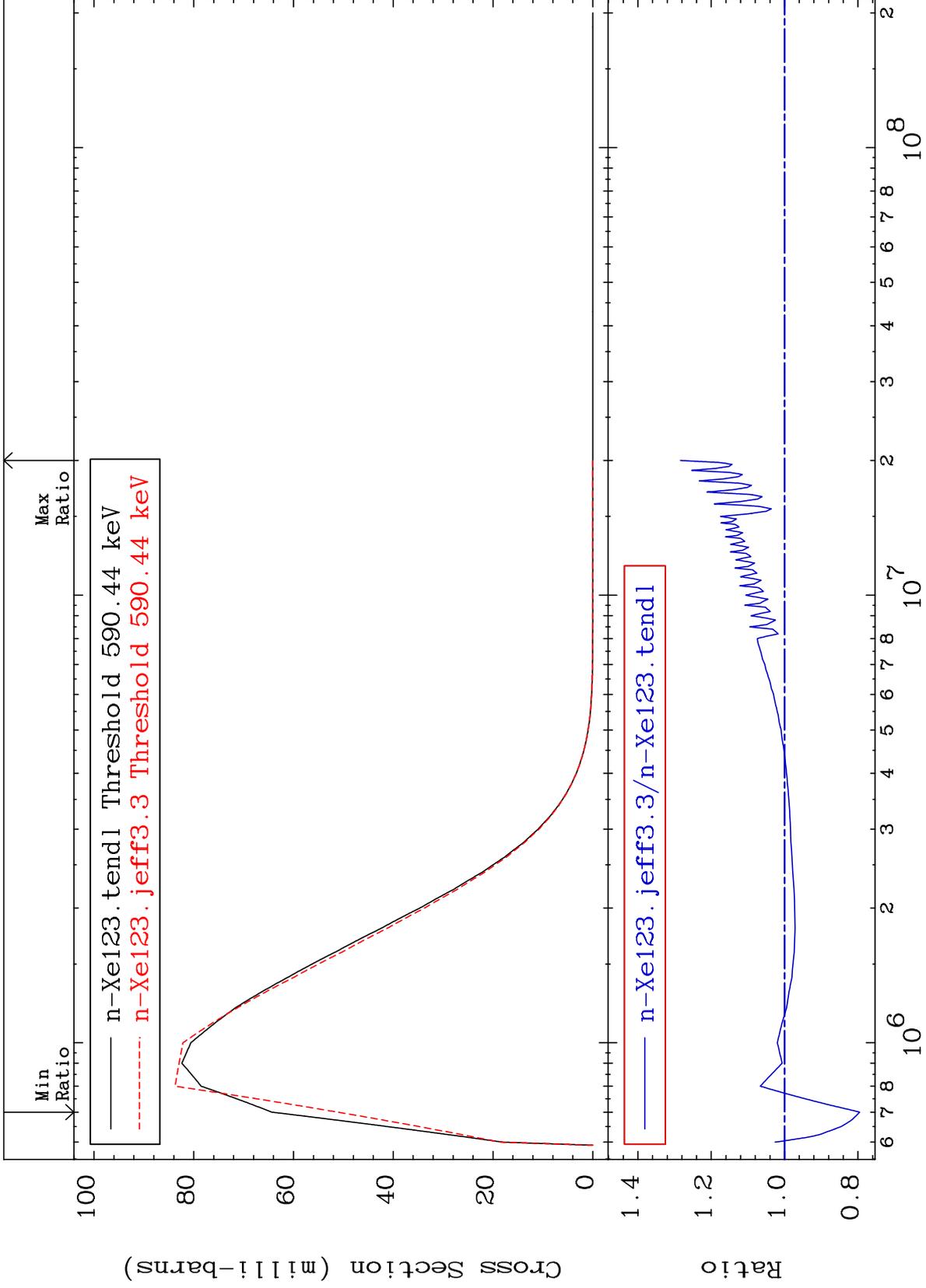
Incident Energy (eV)

54-Xe-123

MAT 5422

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

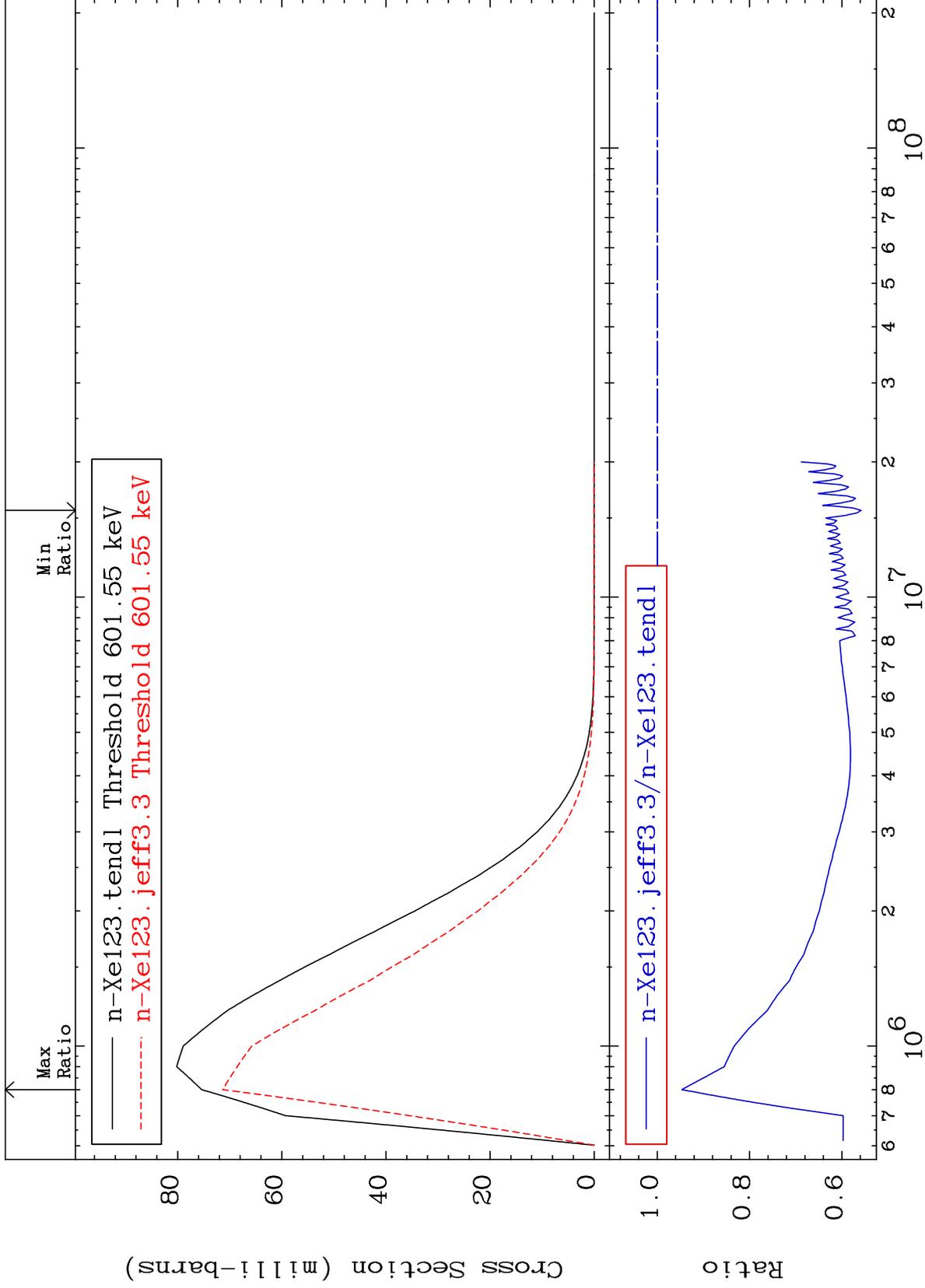
54-Xe-123
-20.50 To 28.37 %



MAT 5422

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

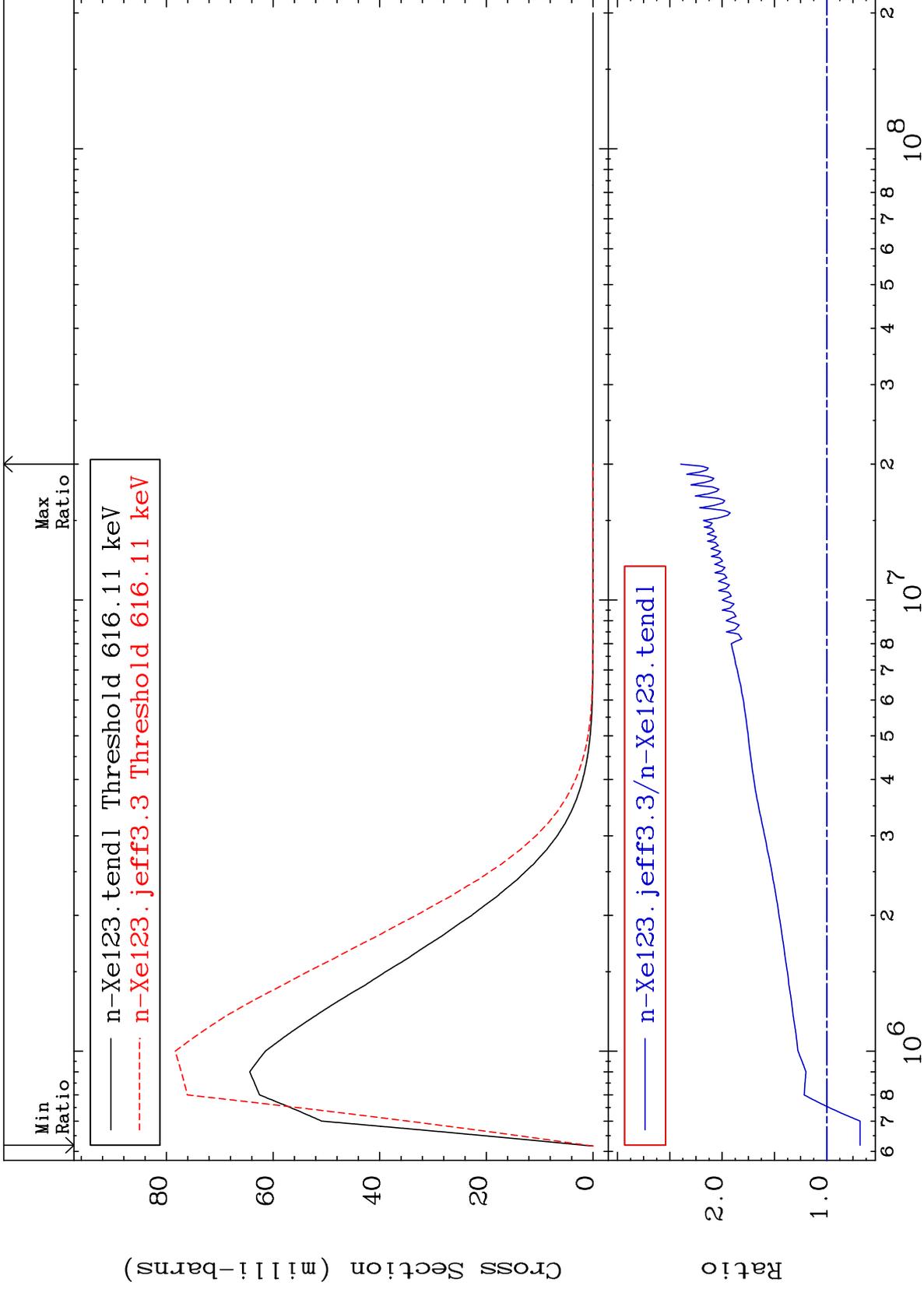
54-Xe-123
-44.18 To -5.350%



MAT 5422

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

54-Xe-123
-31.80 To 139.5 %



23

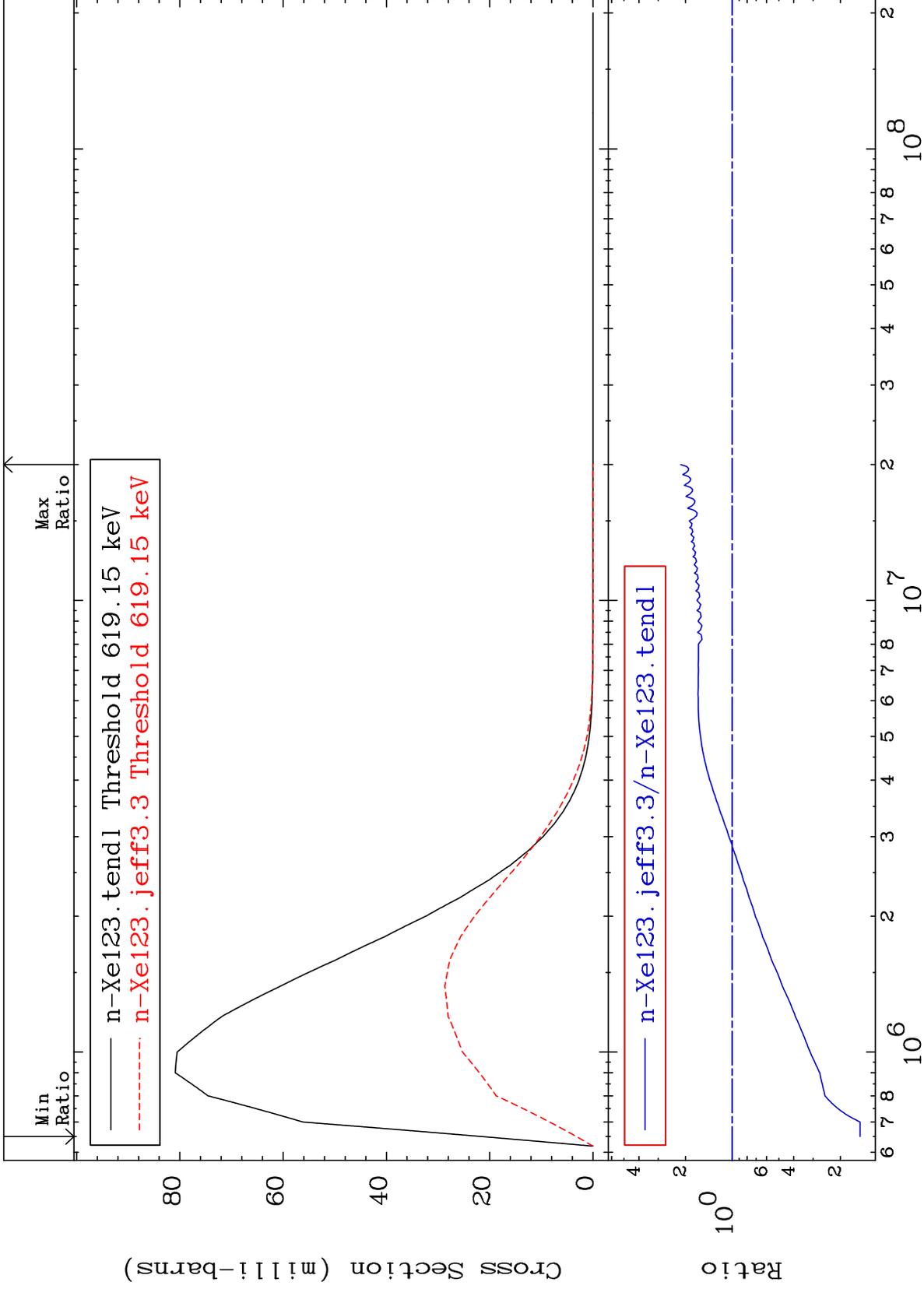
Incident Energy (eV)

54-Xe-123

MAT 5422

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

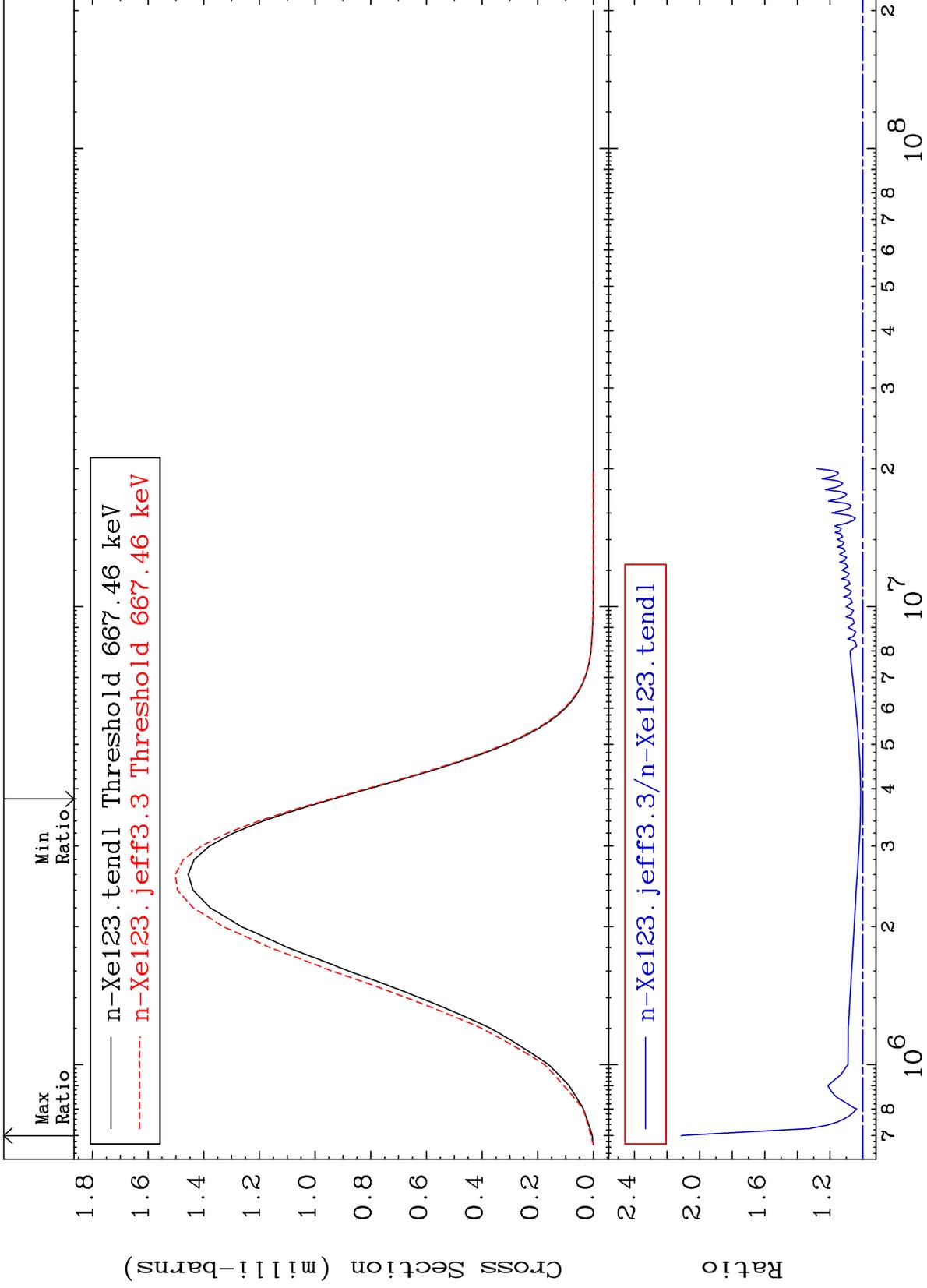
54-Xe-123
-85.07 To 114.6 %



MAT 5422

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

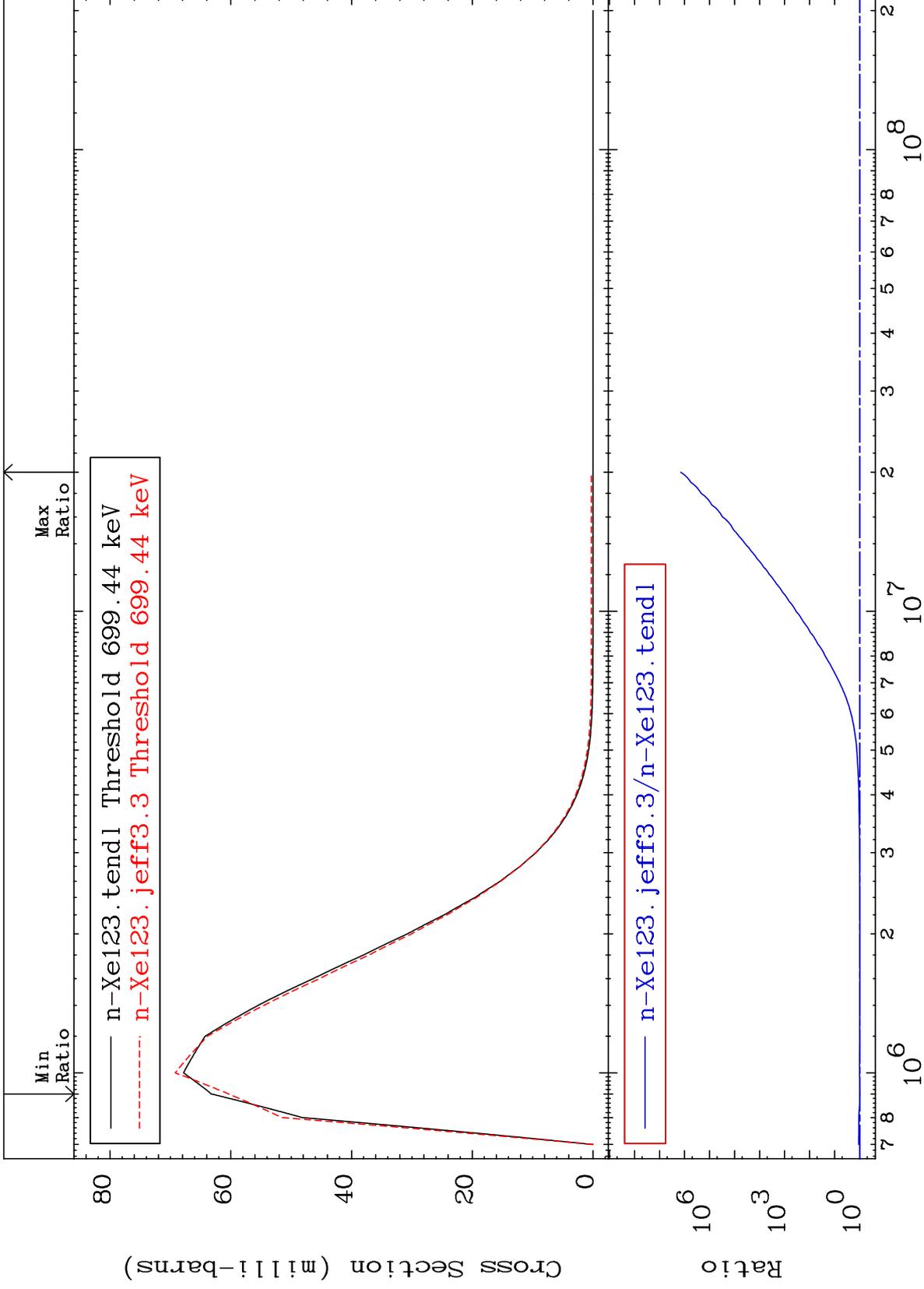
54-Xe-123
1.115 To 111.3 %



MAT 5422

MT= 68 (n,n') Level
Cross Section

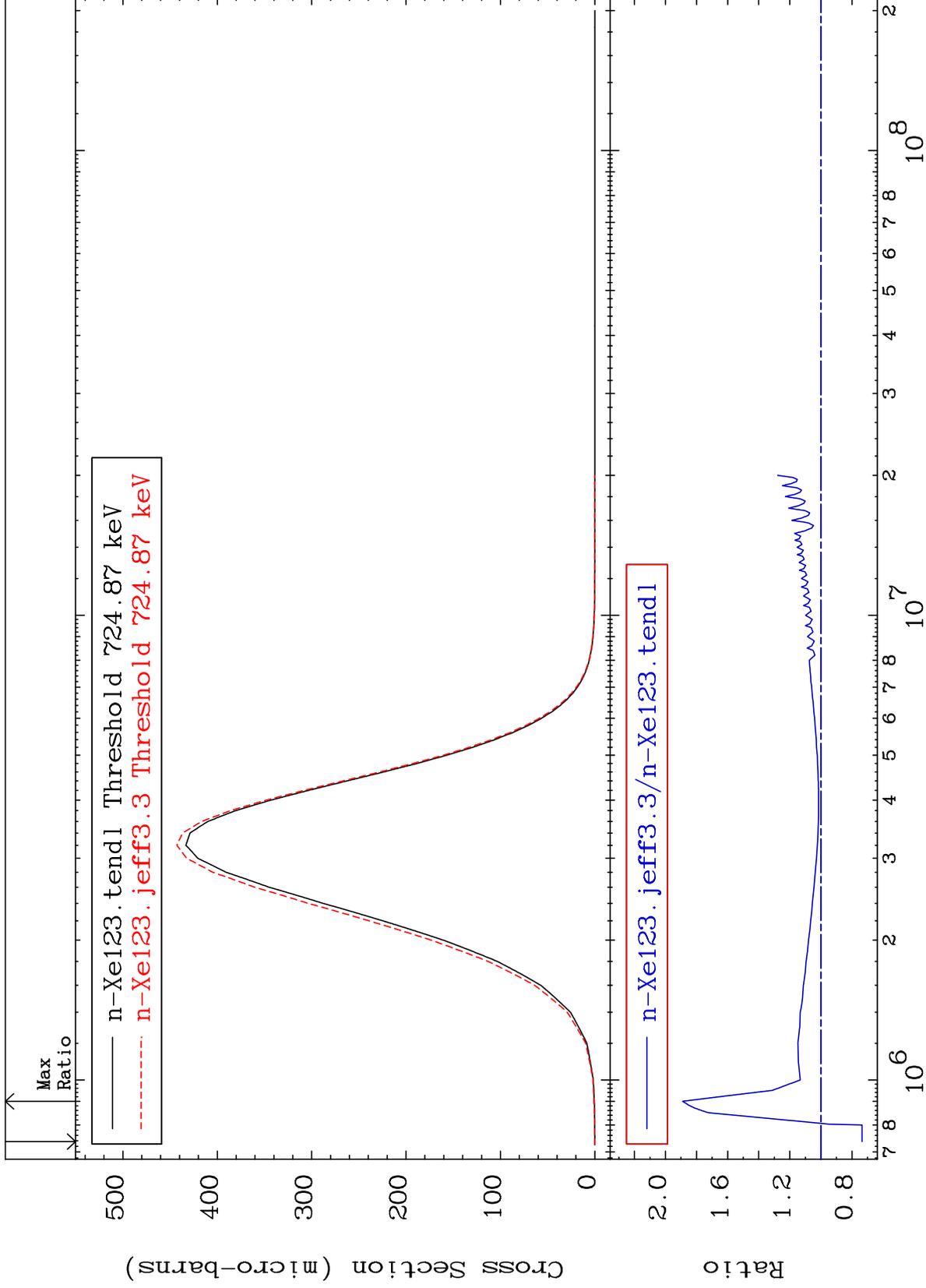
54-Xe-123
-4.515 To 9999. %



MAT 5422

MT= 69 (n,n') Level
Cross Section

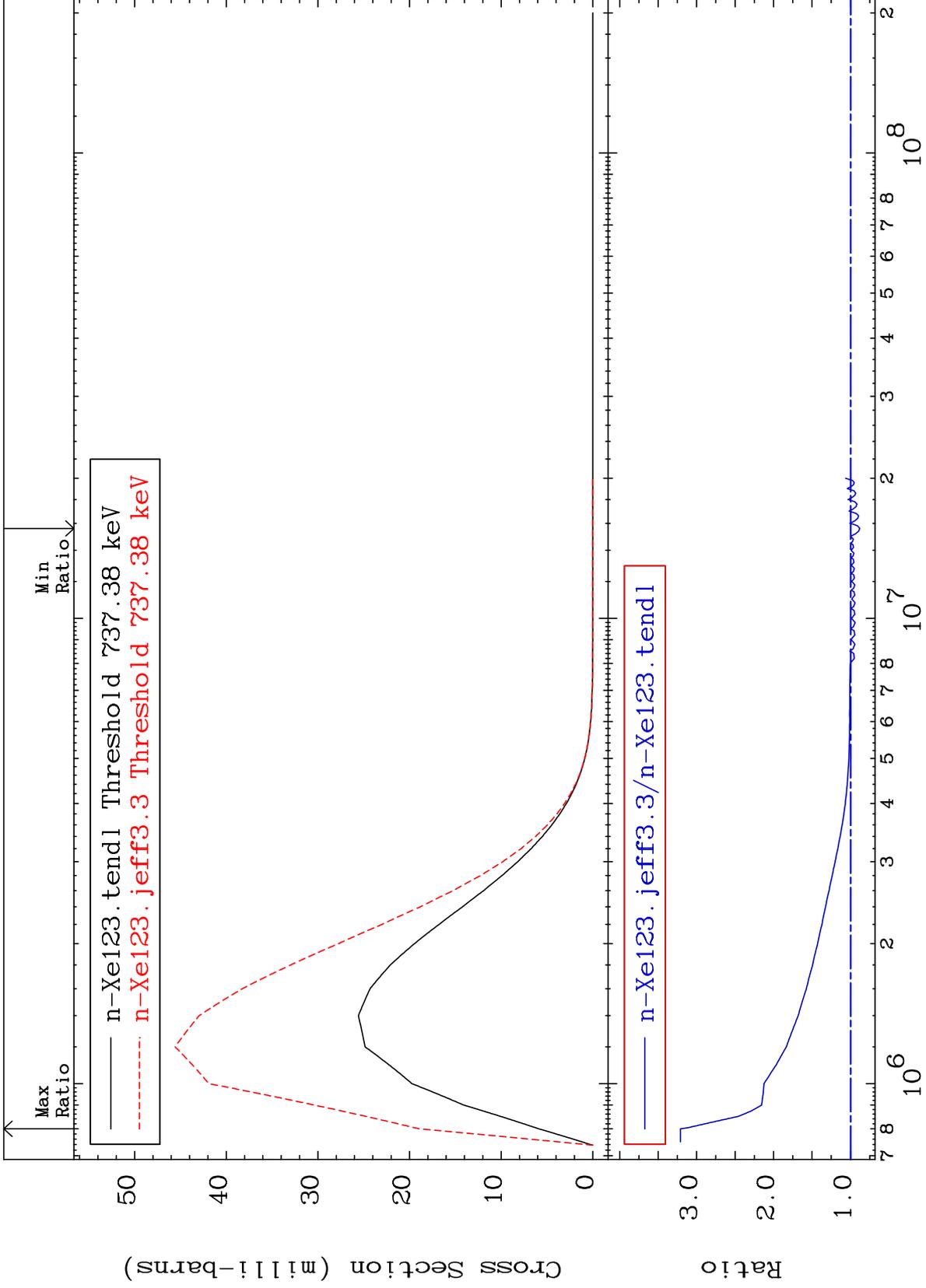
54-Xe-123
-26.50 To 88.94 %



MAT 5422

MT= 70 (n,n') Level
Cross Section

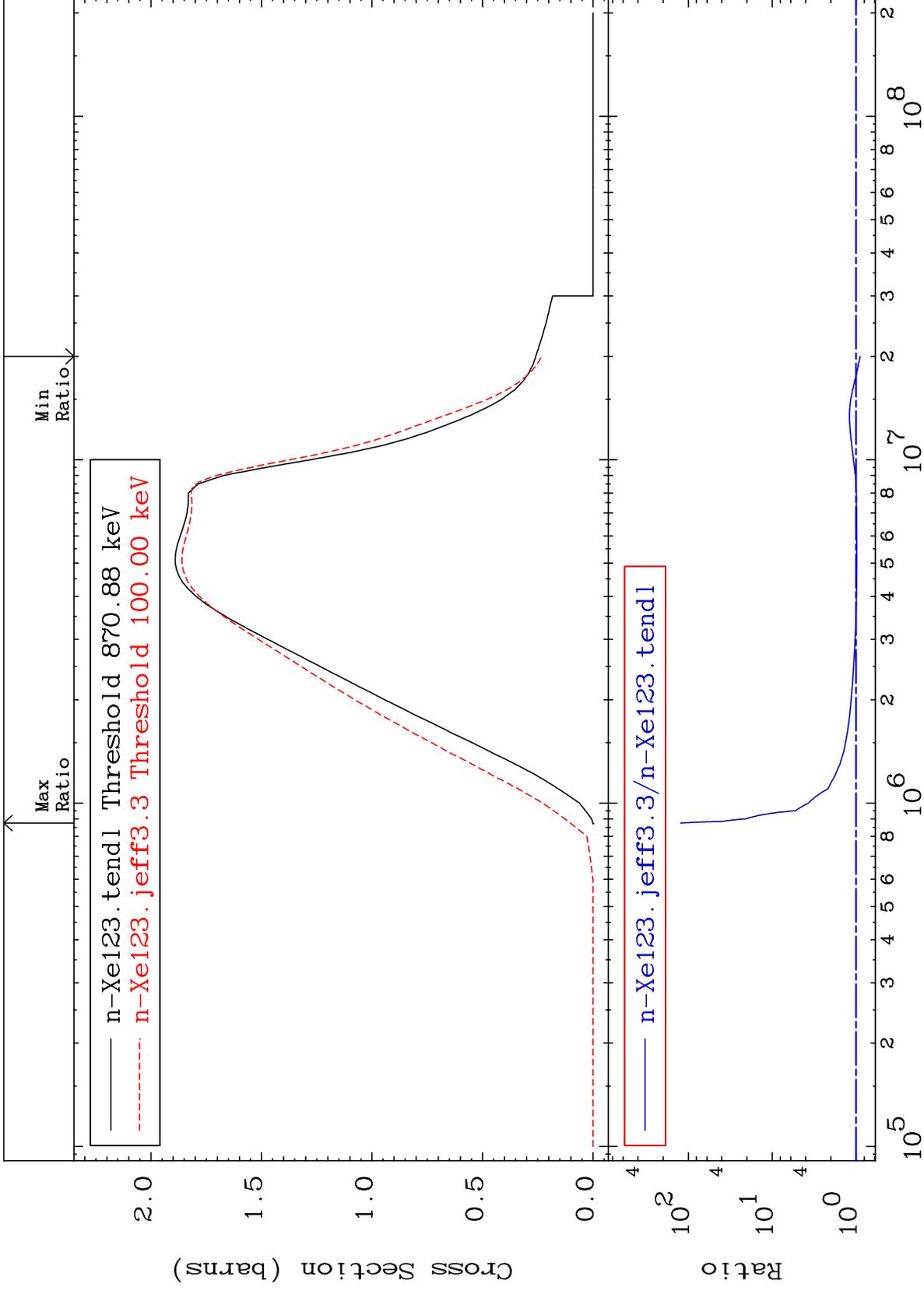
54-Xe-123
-12.04 To 220.9 %



MAT 5422

(n, n') Continuum
Cross Section

54-Xe-123
-10.43 To 9999. %



29

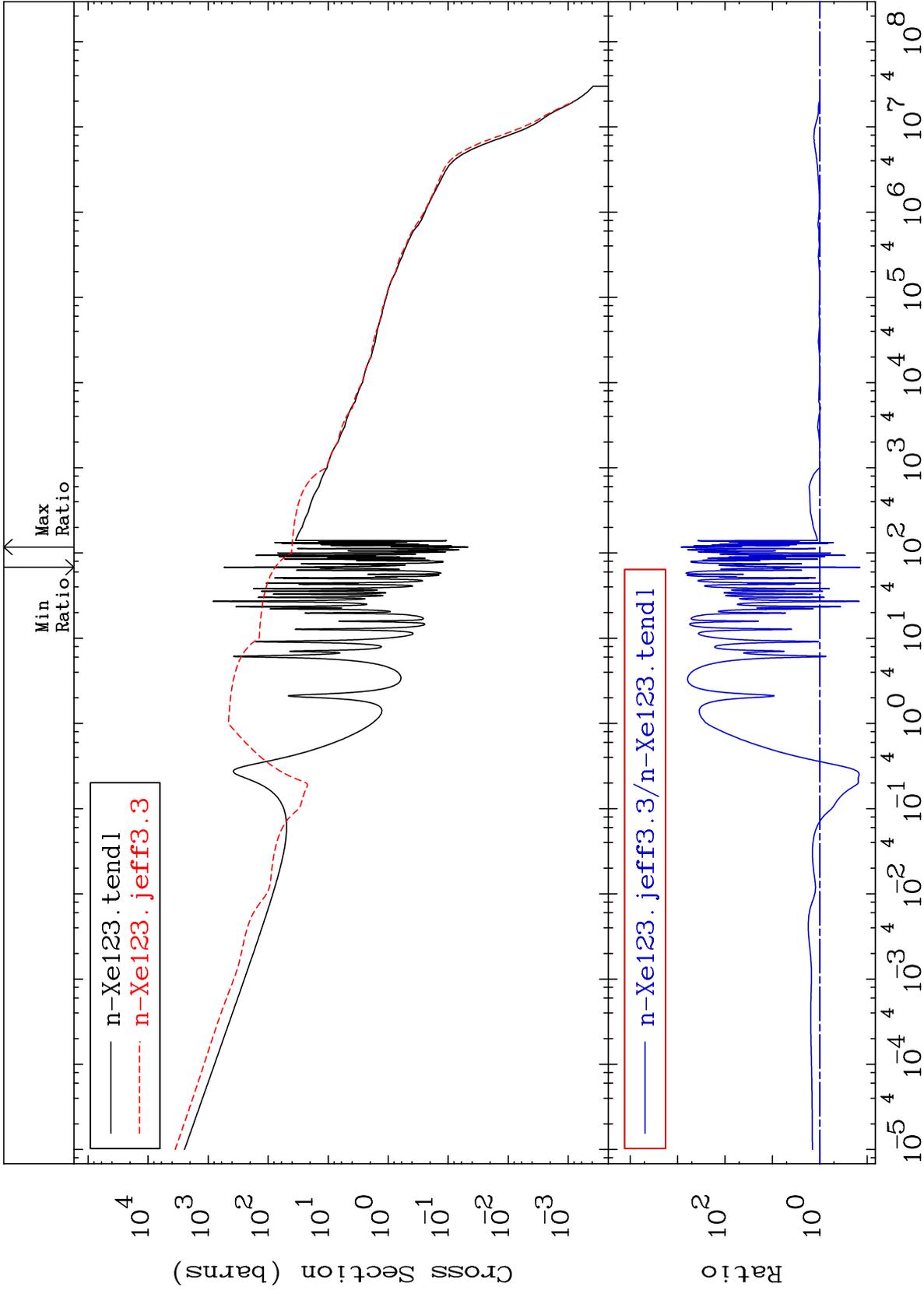
54-Xe-123

54-Xe-123

MAT 5422

(n, γ)
Cross Section

54-Xe-123
-85.89 To 9999. %



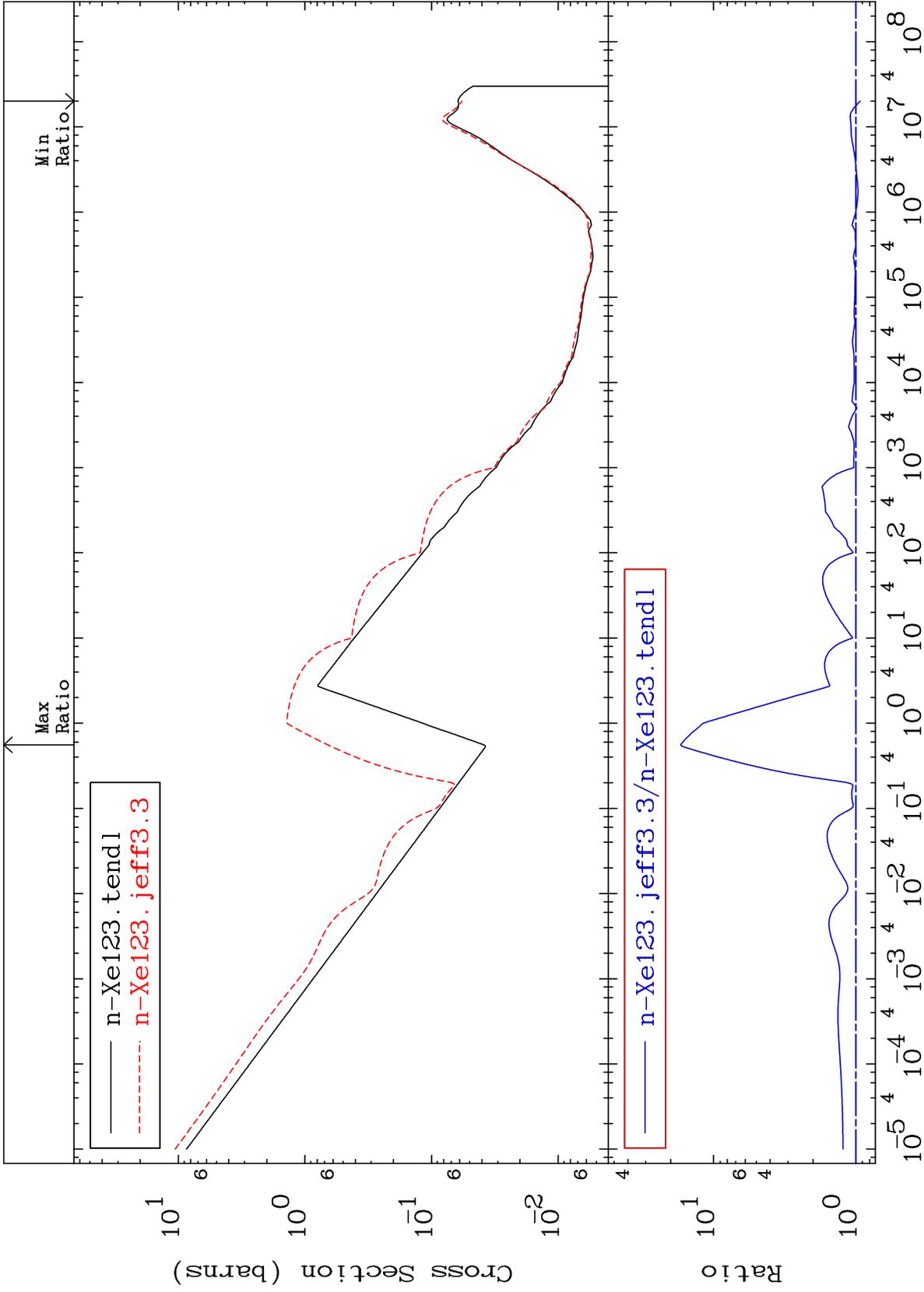
MAT 5422

(n,p)

54-Xe-123

Cross Section

-6.671 To 1601. %



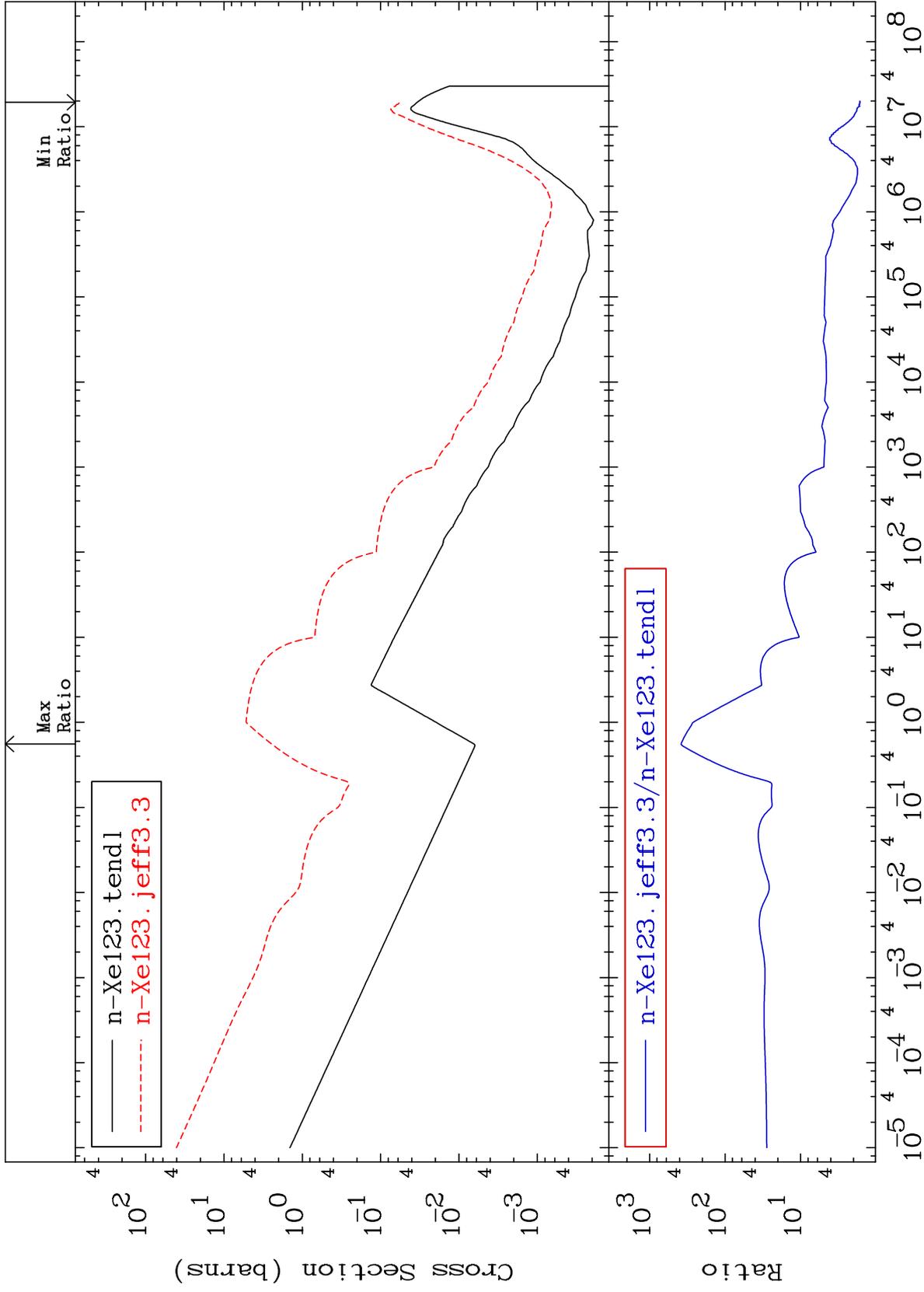
MAT 5422

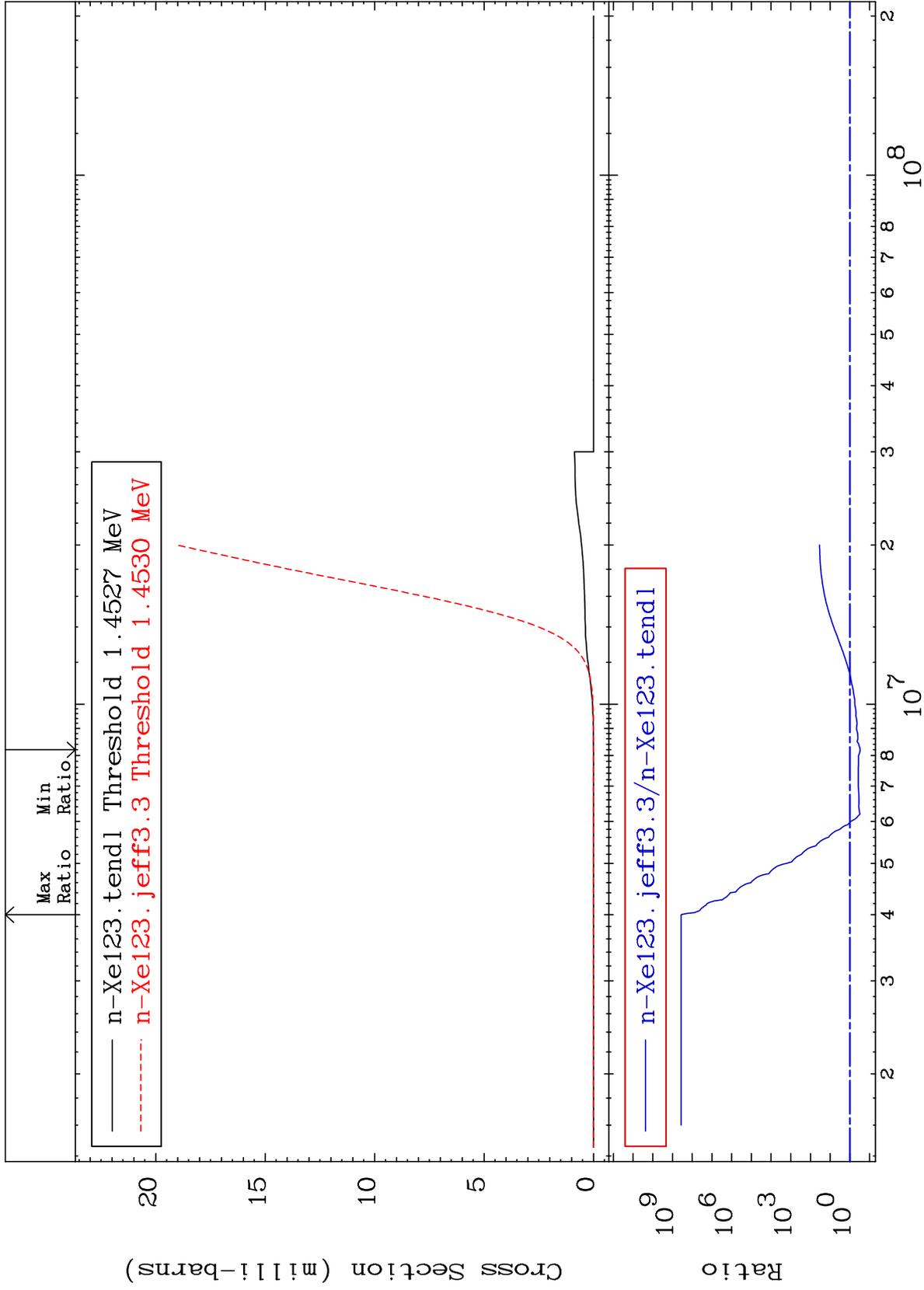
(n, α)

54-Xe-123

Cross Section

62.87 To 9999. %

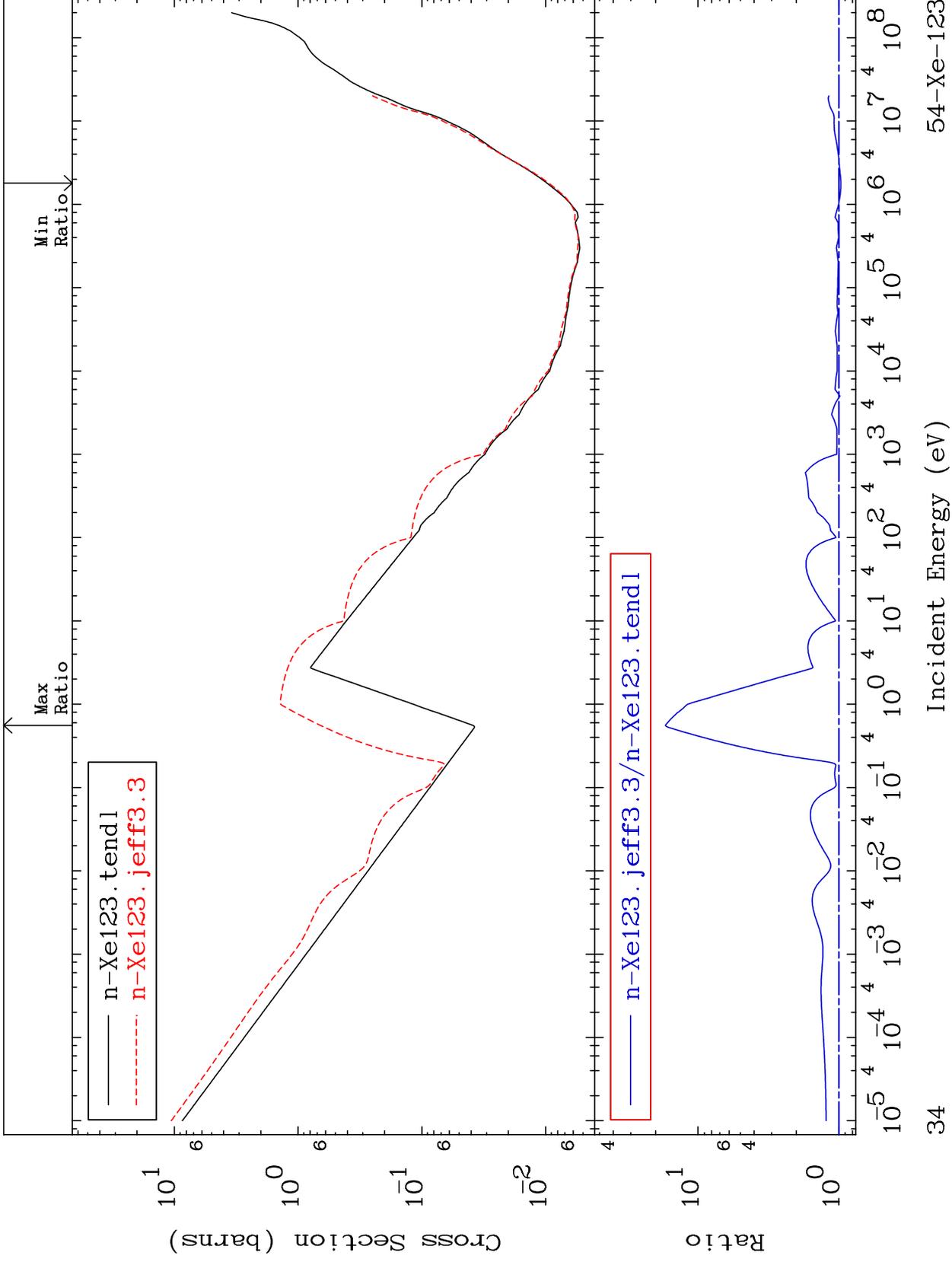




MAT 5422

Hydrogen Production
Cross Section

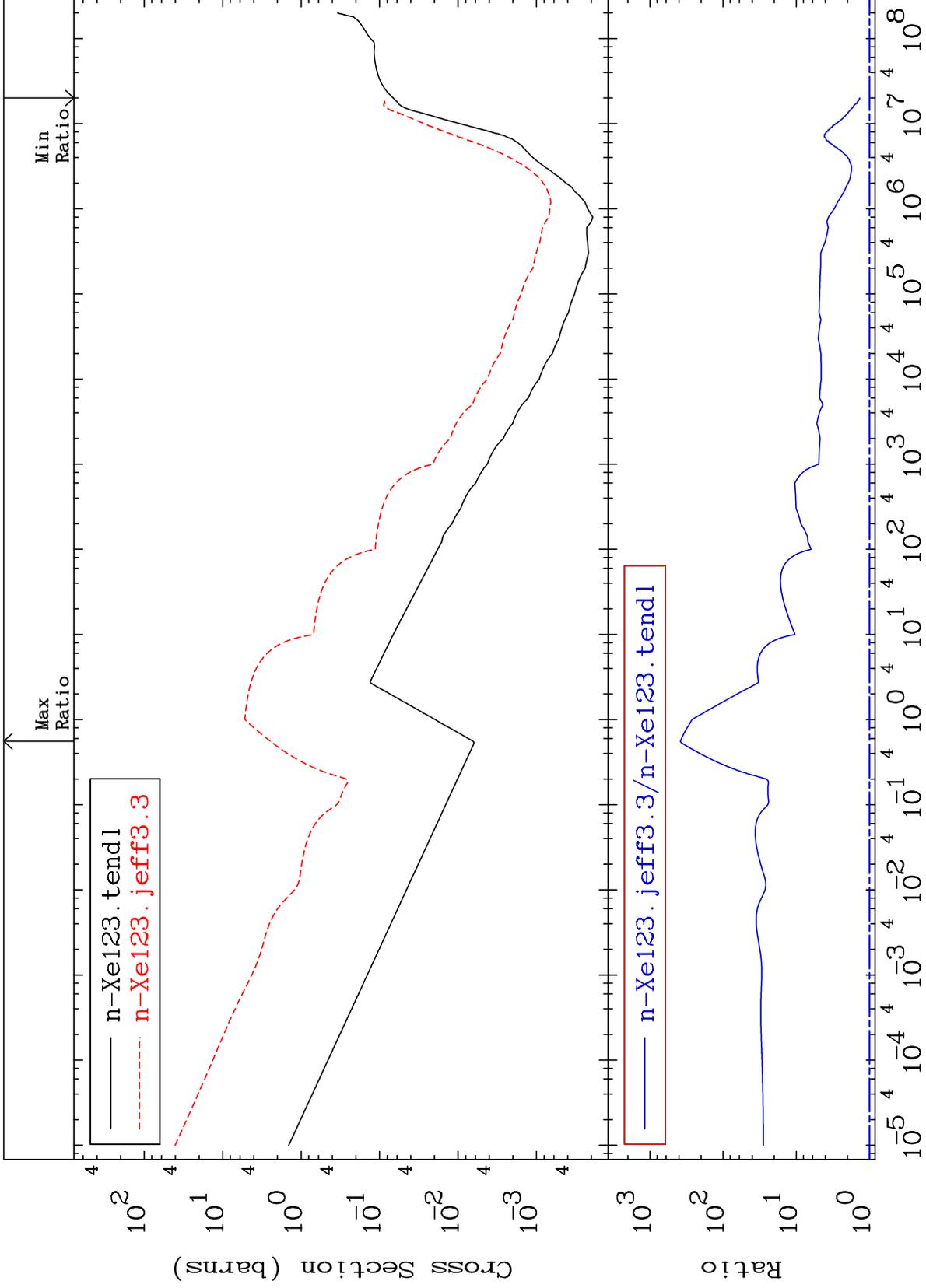
54-Xe-123
-3.322 To 1601. %



MAT 5422

He-4 Production
Cross Section

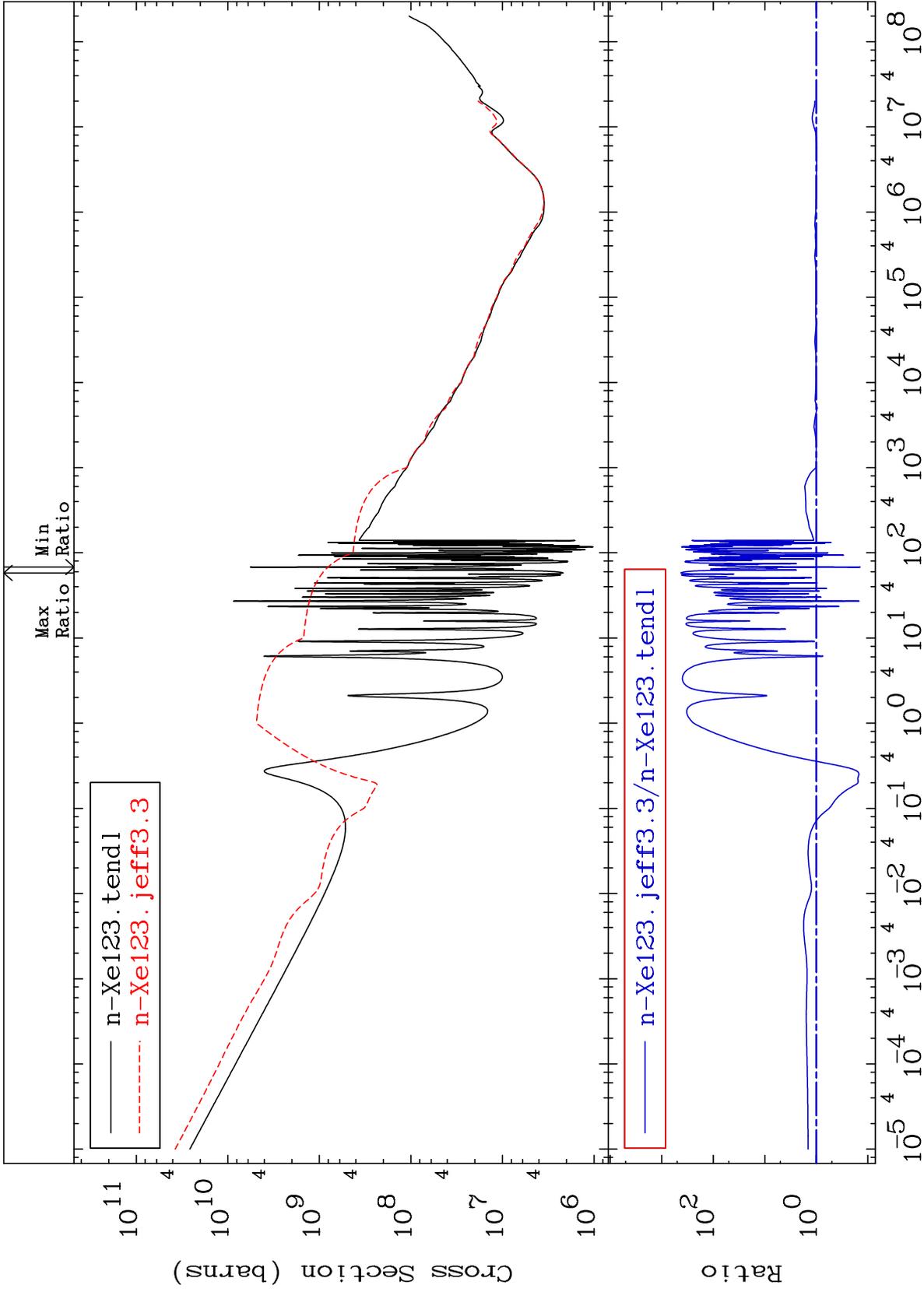
54-Xe-123
35.54 To 9999. %



35

Incident Energy (eV)

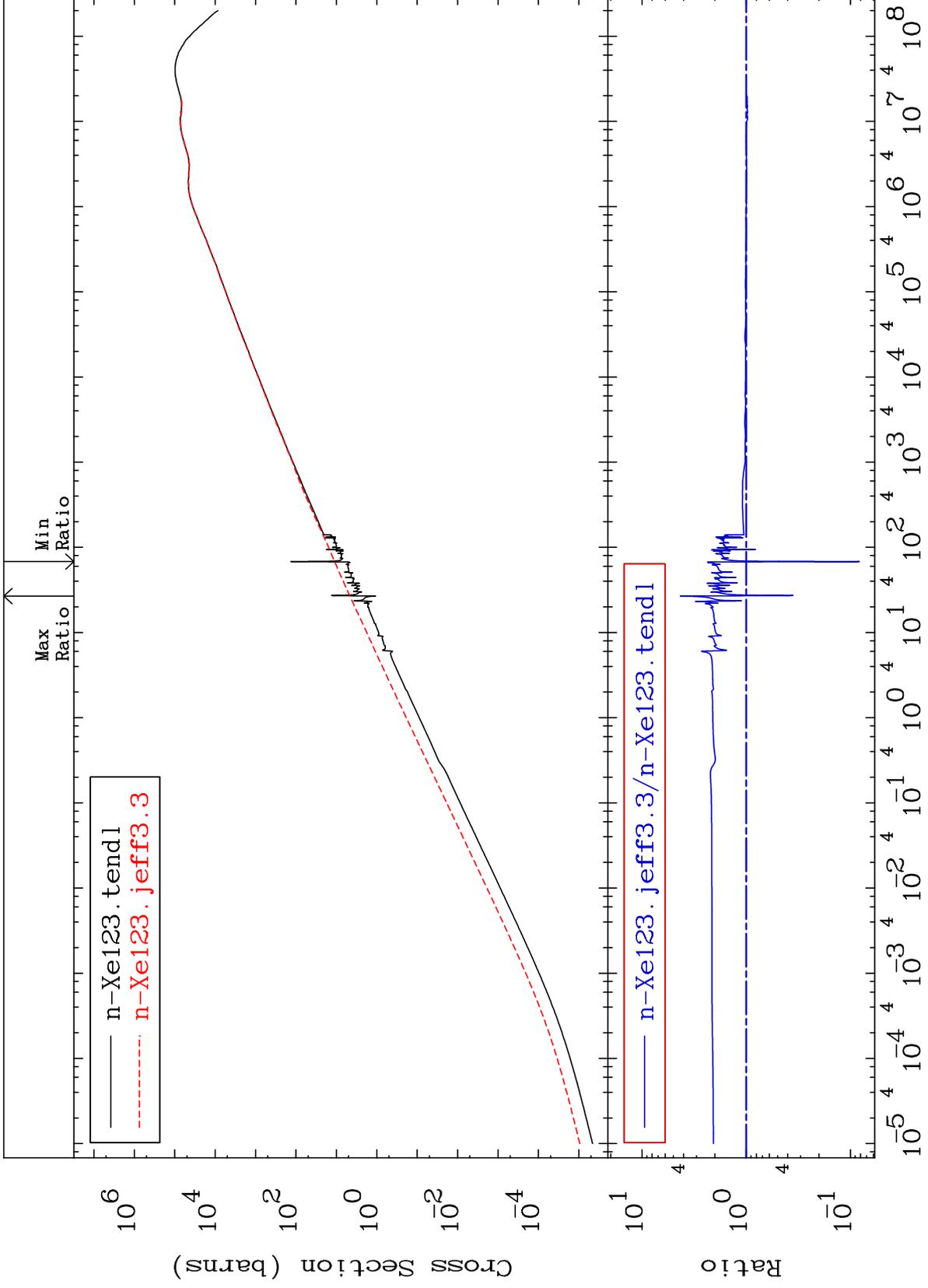
54-Xe-123

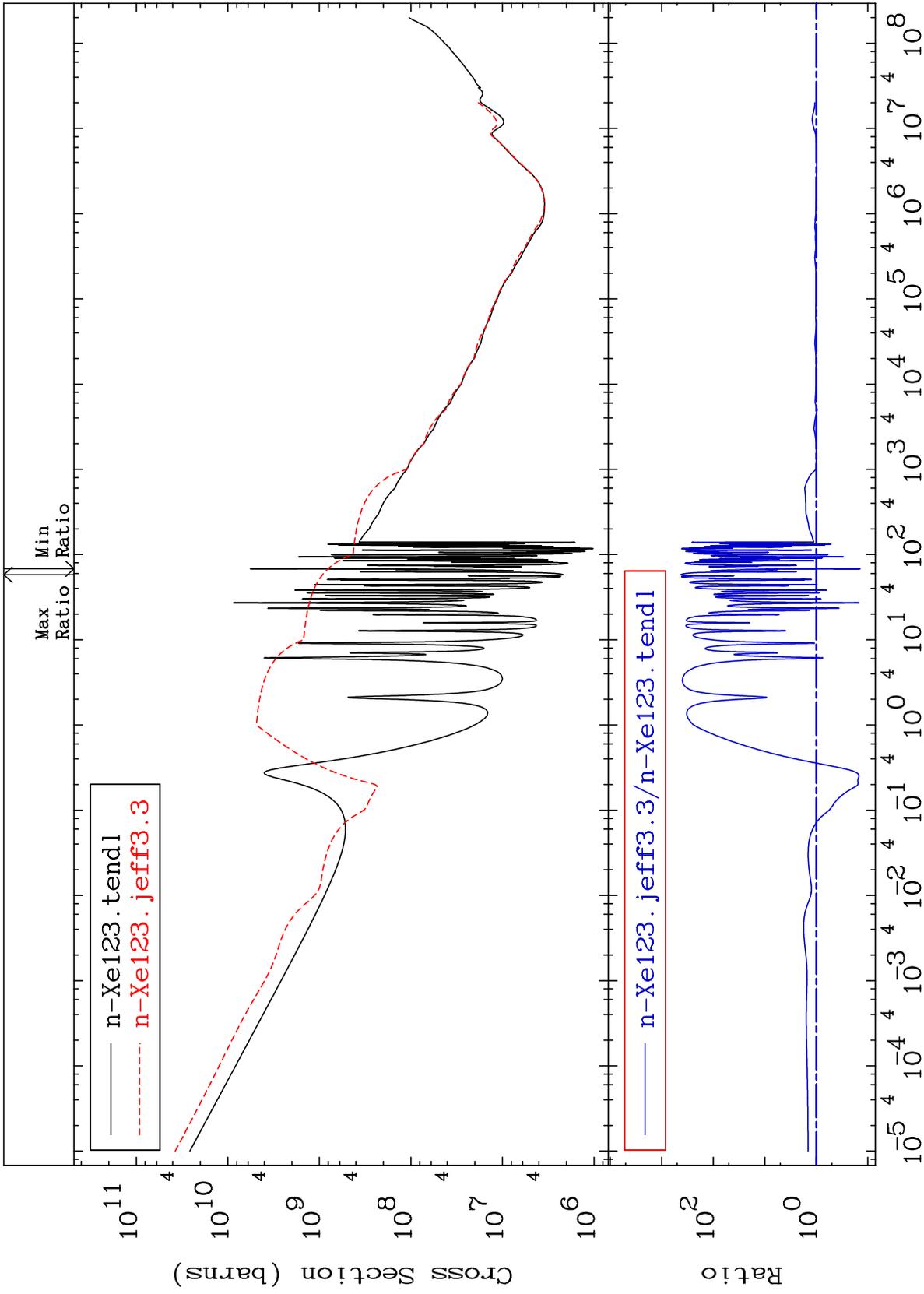


MAT 5422

Kerma elastic
Cross Section

54-Xe-123
-91.81 To 329.5 %

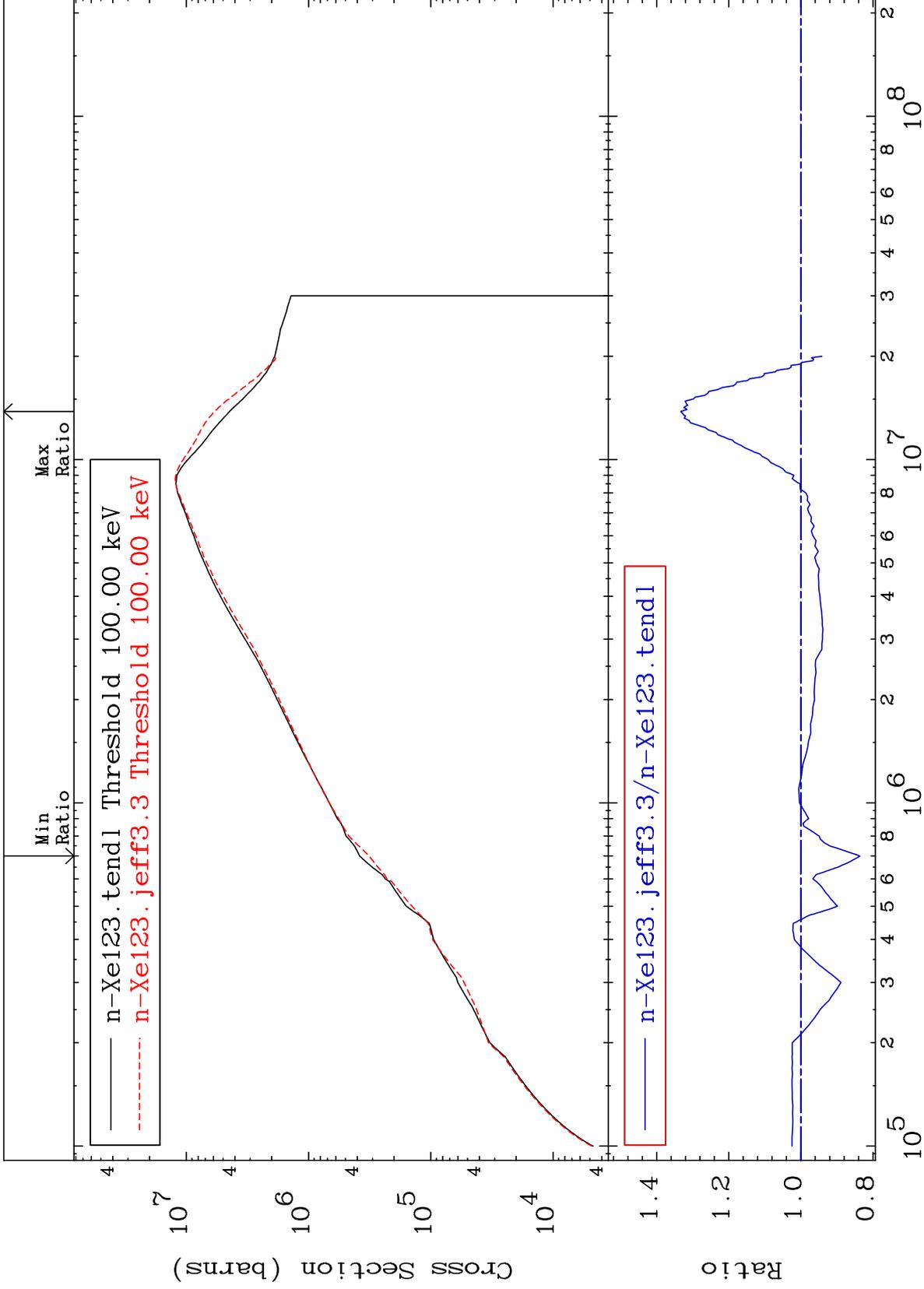




MAT 5422

Kerma inelastic (mt51-91)
Cross Section

54-Xe-123
-16.43 To 33.31 %



39

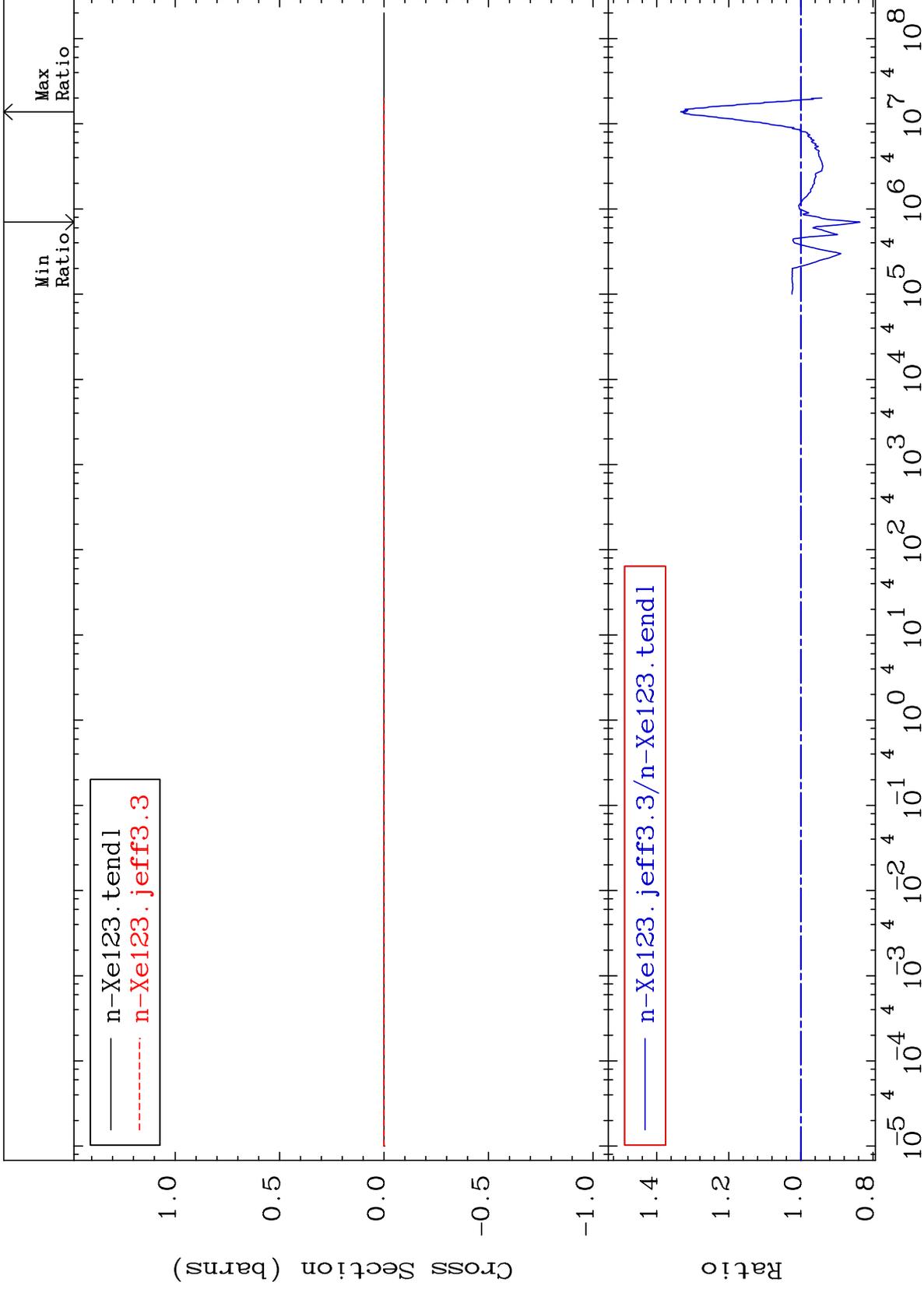
Incident Energy (eV)

54-Xe-123

MAT 5422

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

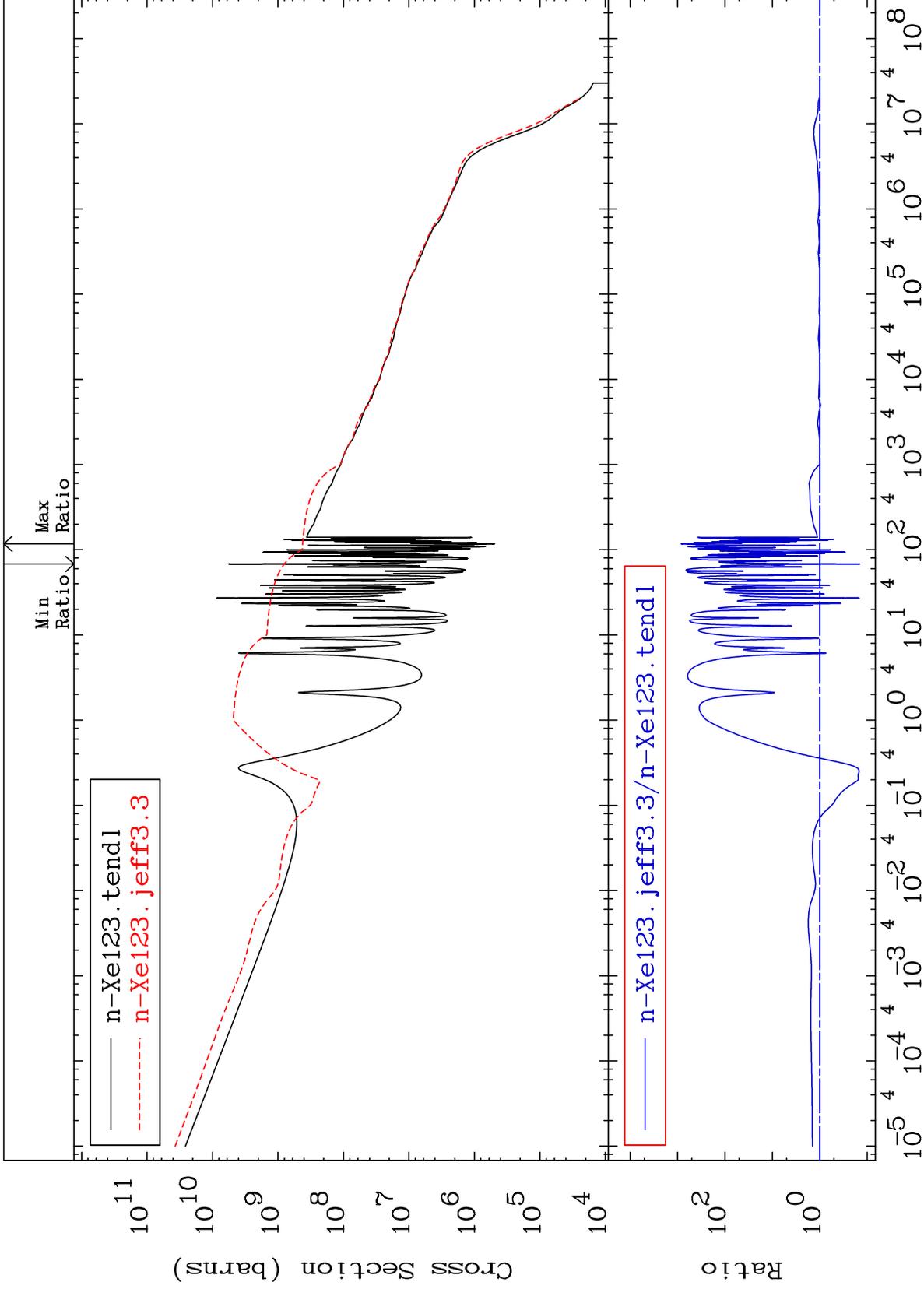
54-Xe-123
-16.43 To 33.31 %



MAT 5422

Kerma capture (mt102)
Cross Section

54-Xe-123
-85.89 To 9999. %



41

Incident Energy (eV)

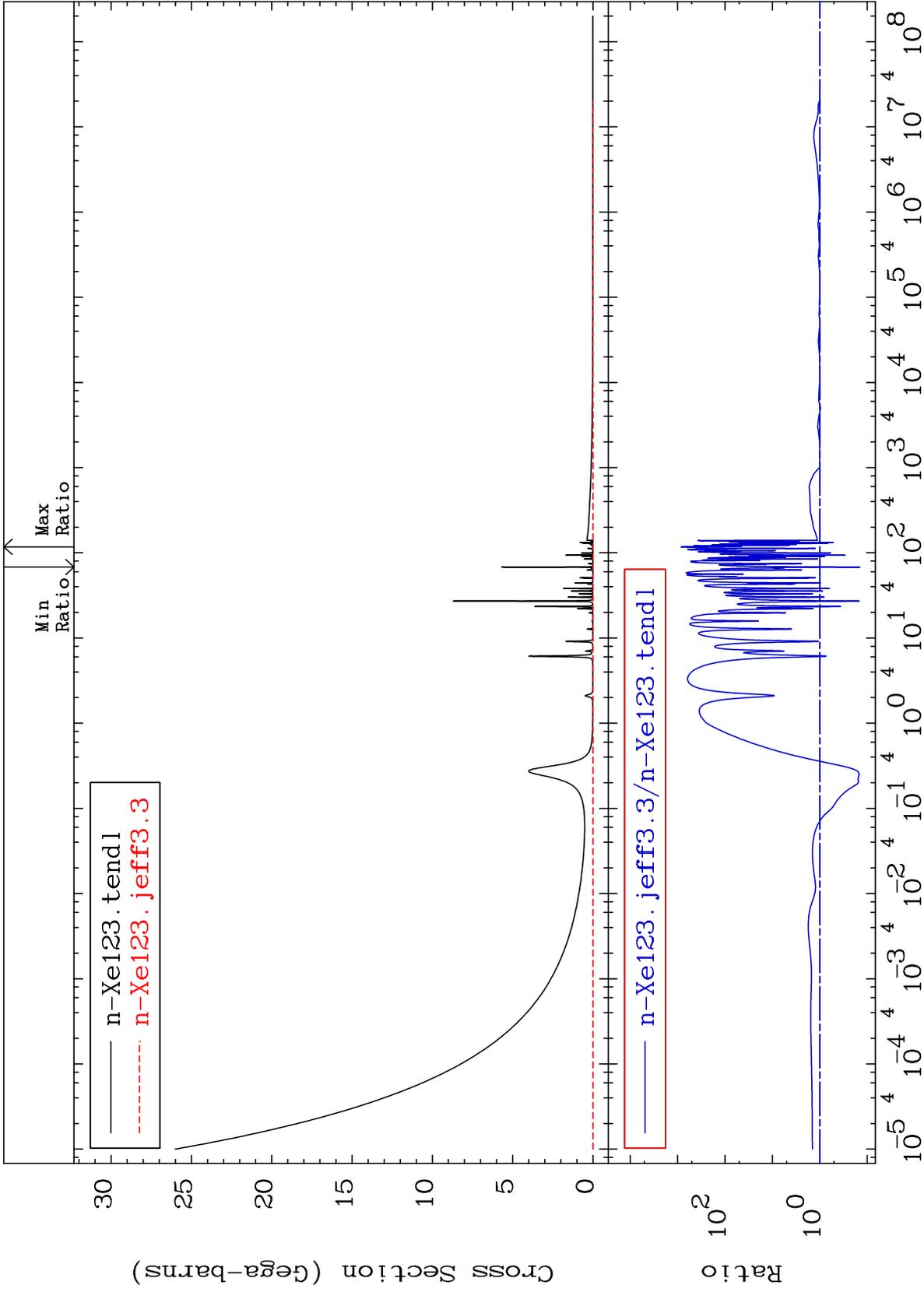
54-Xe-123

MAT 5422

Total photon (eV-barns)
Cross Section

54-Xe-123

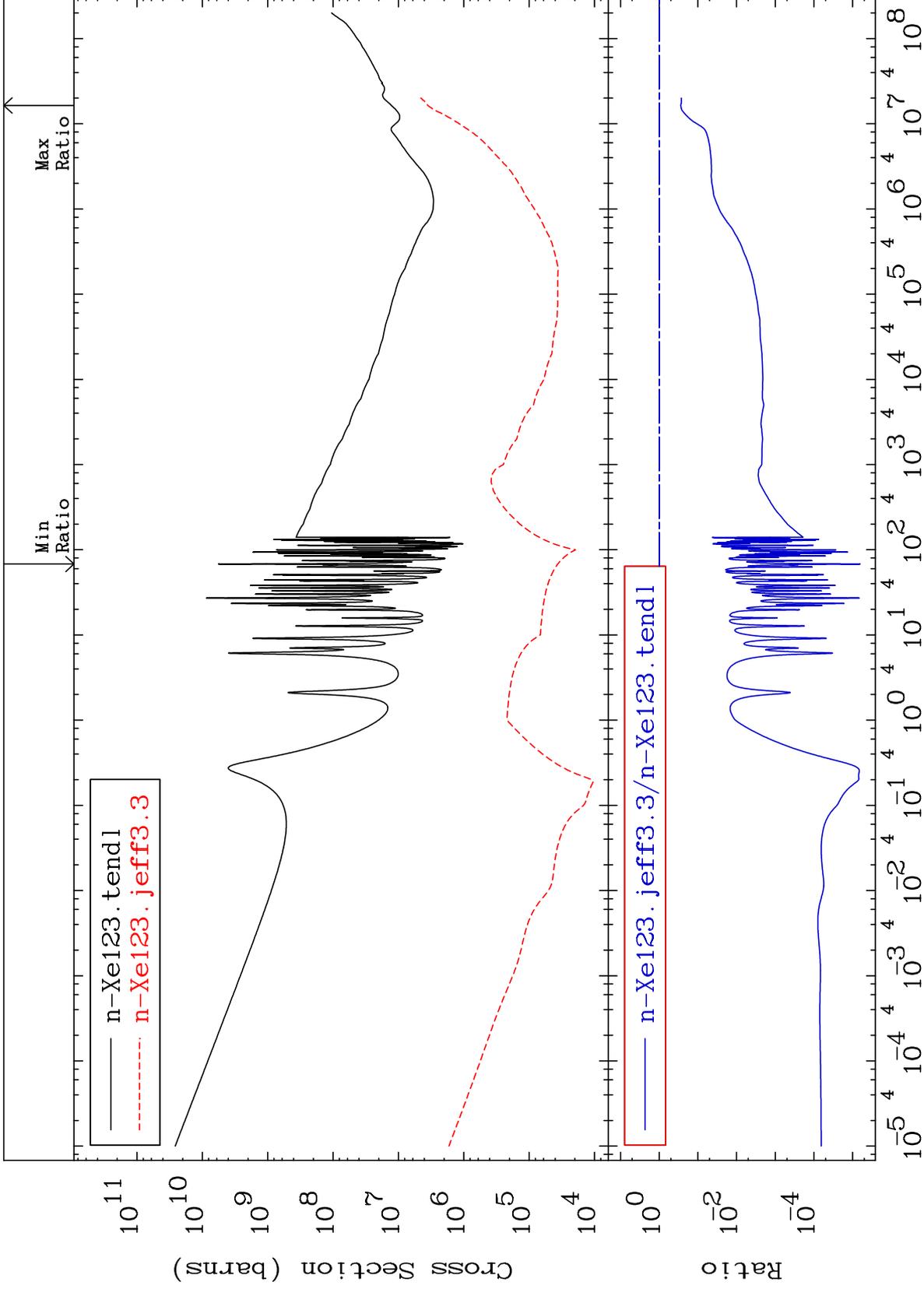
-85.89 To 9999. %



42

Incident Energy (eV)

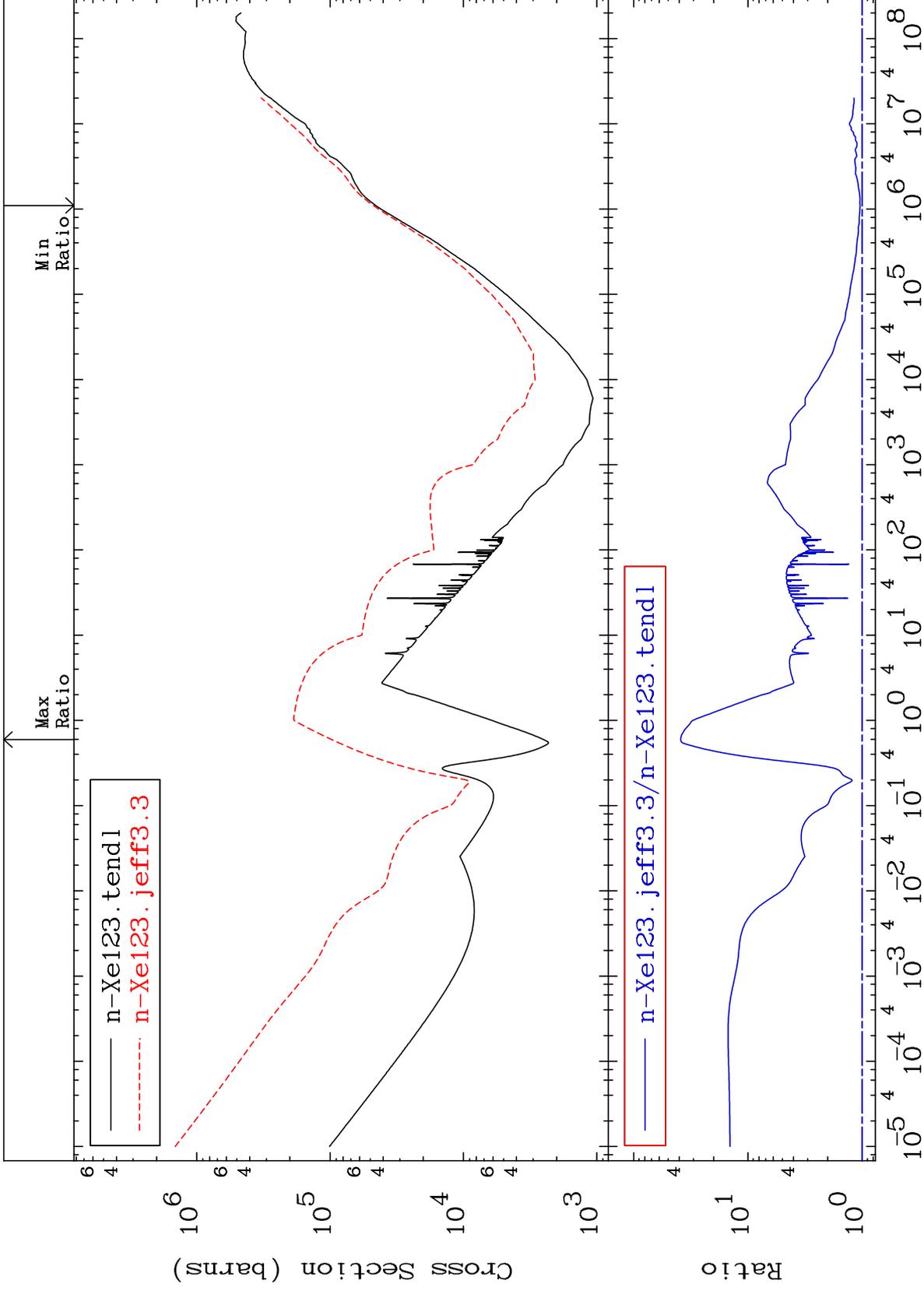
54-Xe-123



MAT 5422

Dpa total (eV-barns)
Cross Section

54-Xe-123
4.182 To 3779. %



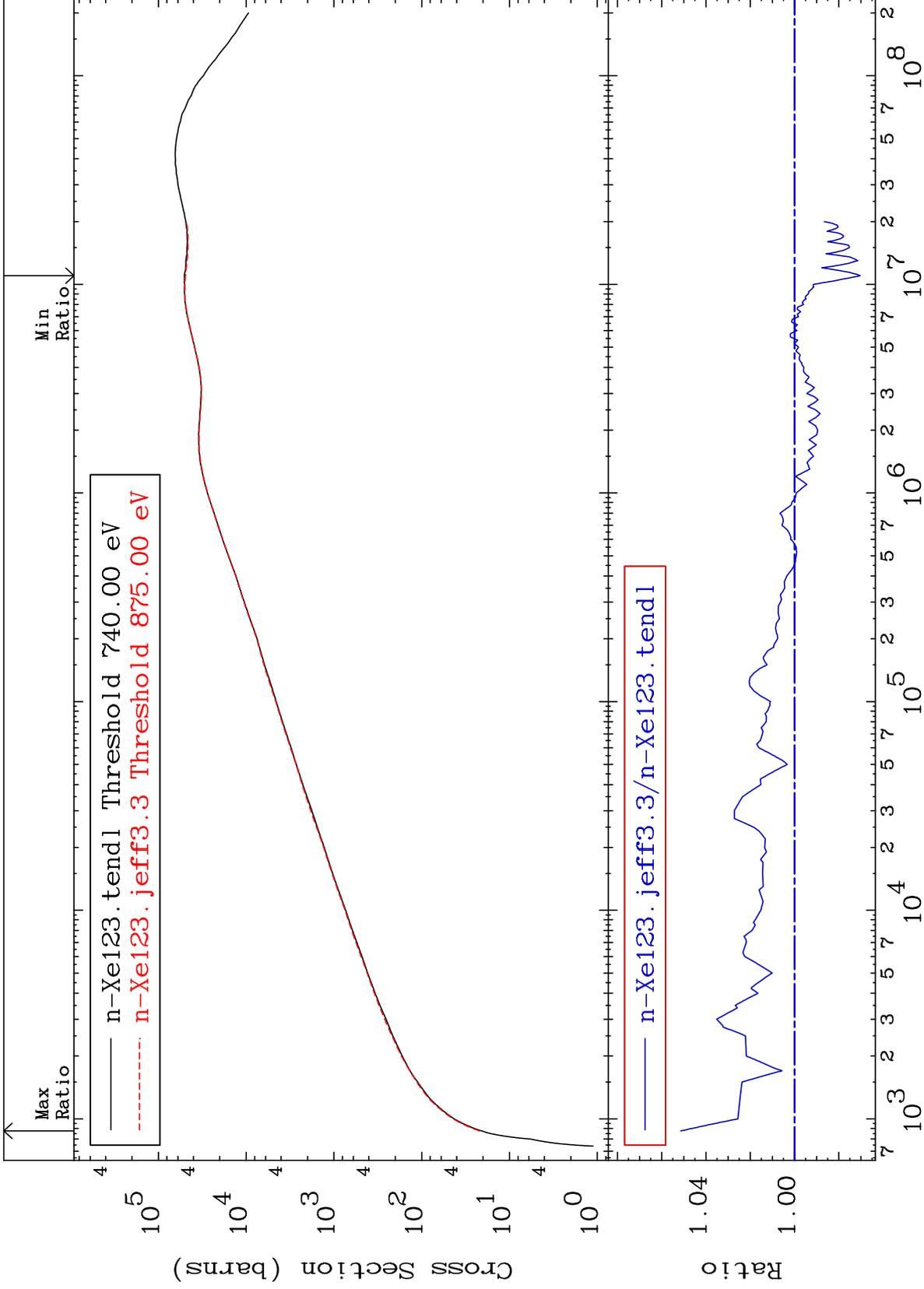
Incident Energy (eV)

54-Xe-123

MAT 5422

Dpa elastic (mt2)
Cross Section

54-Xe-123
-2.963 To 5.139 %



45

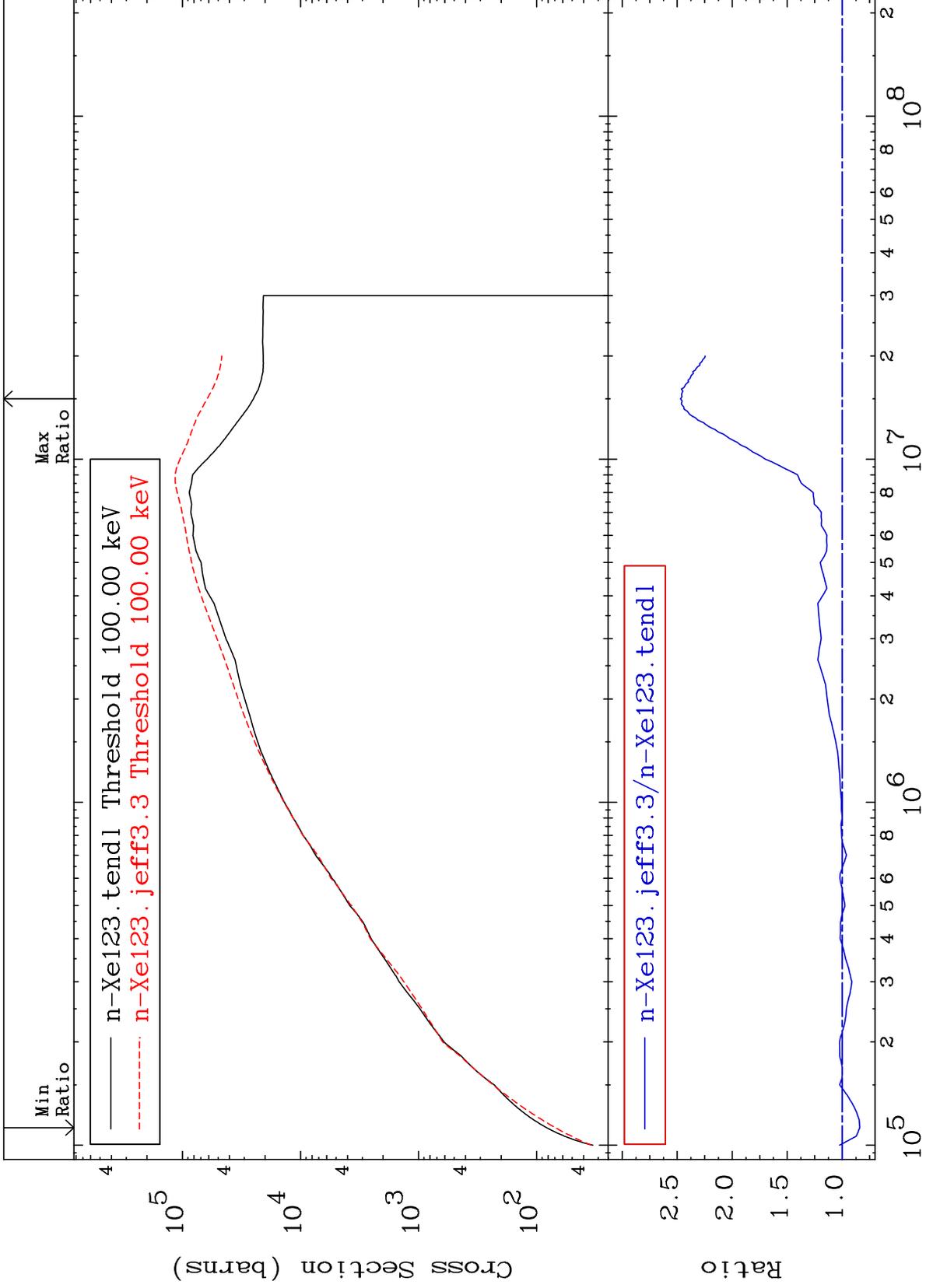
Incident Energy (eV)

54-Xe-123

MAT 5422

Dpa inelastic (mt51-91)
Cross Section

54-Xe-123
-16.00 To 147.0 %



46

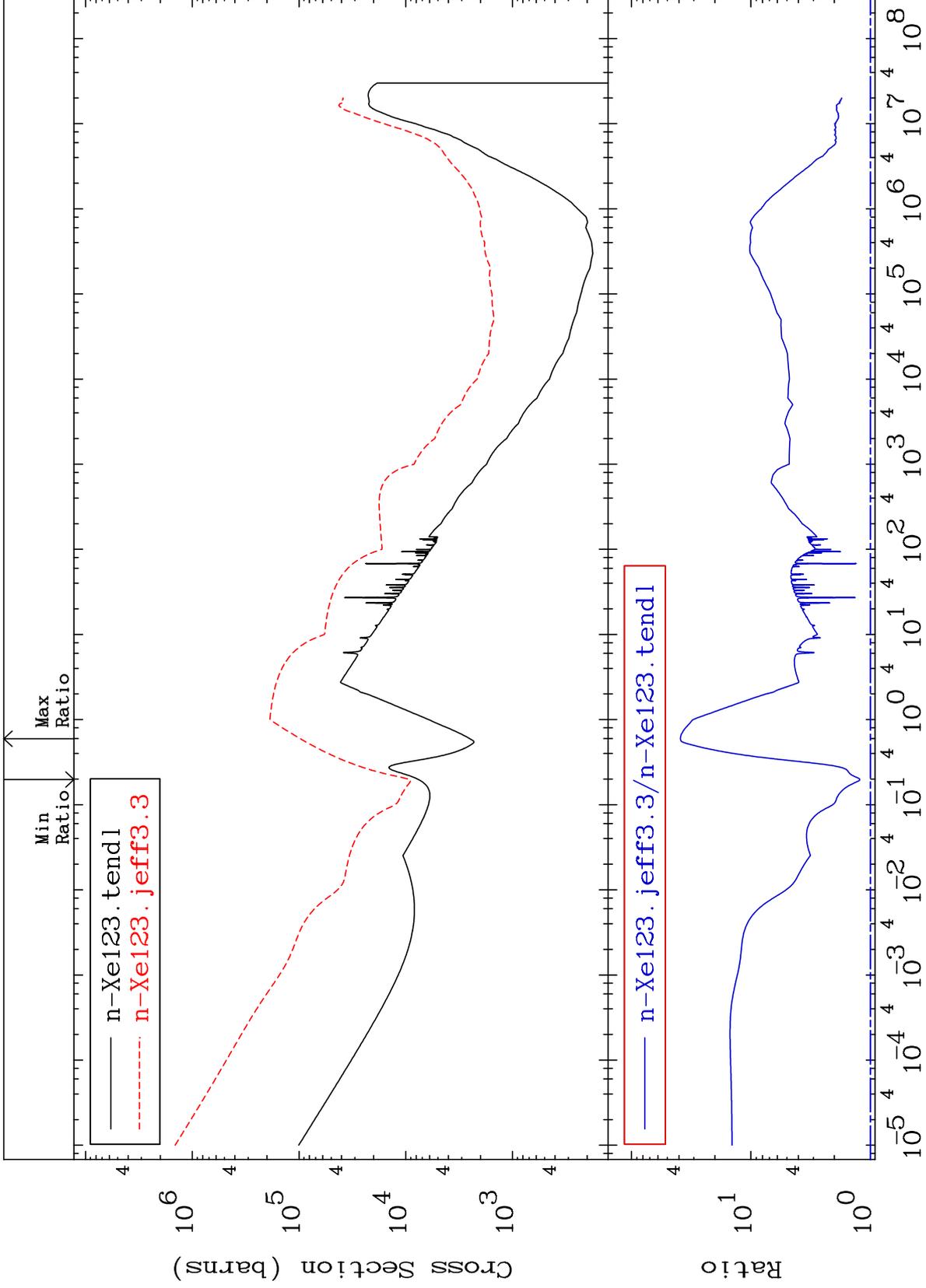
Incident Energy (eV)

54-Xe-123

MAT 5422

Dpa disappearance (mt102 -120)
Cross Section

54-Xe-123
22.57 To 3779. %



47

Incident Energy (eV)

54-Xe-123