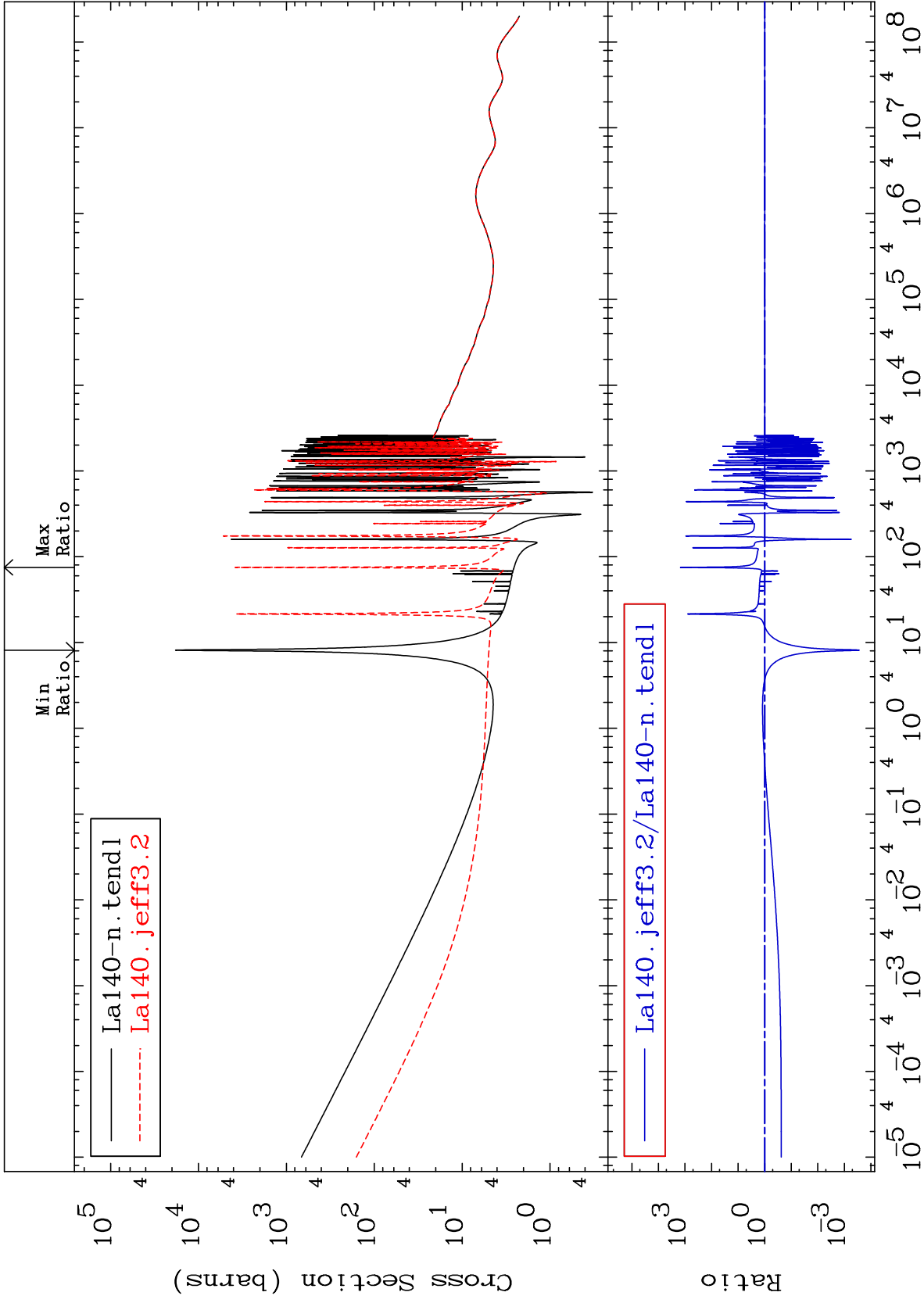


MAT 5731

Total
Cross Section

57-La-140
-99.97 To 9999. %



Incident Energy (eV)

57-La-140

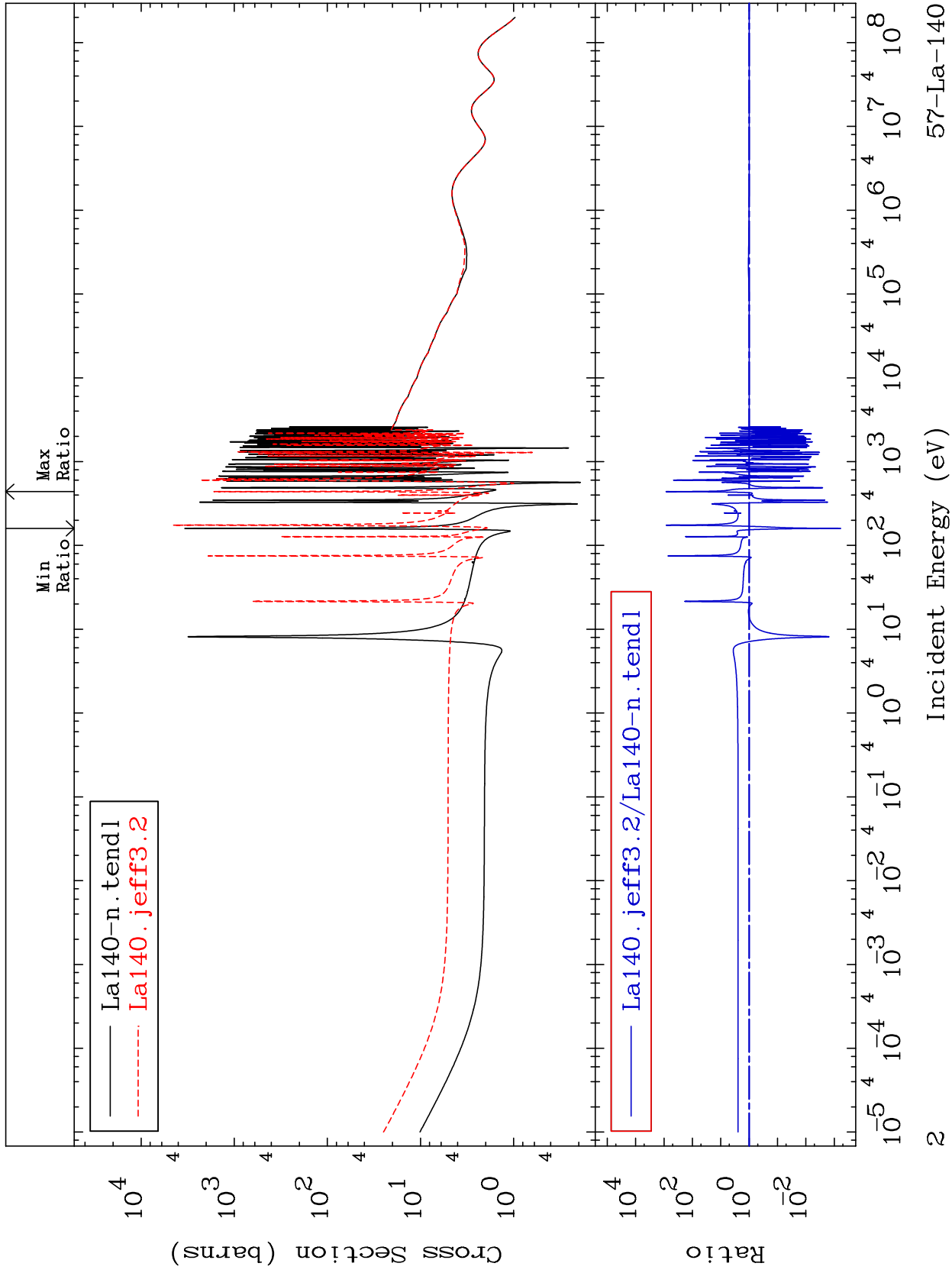
MAT 5731

Elastic

57-La-140

Cross Section

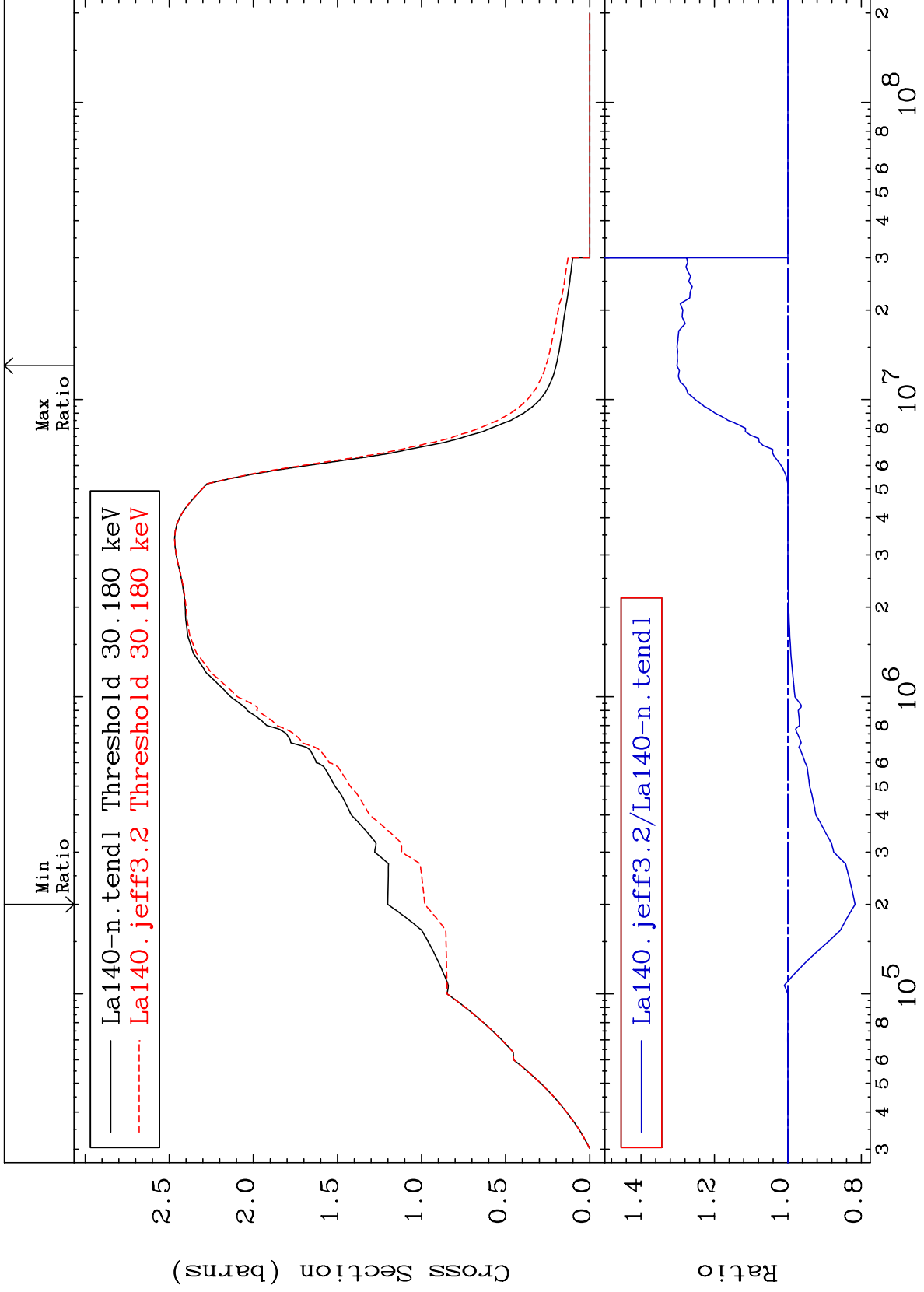
-99.94 To 9999. %



MAT 5731

Inelastic
Cross Section

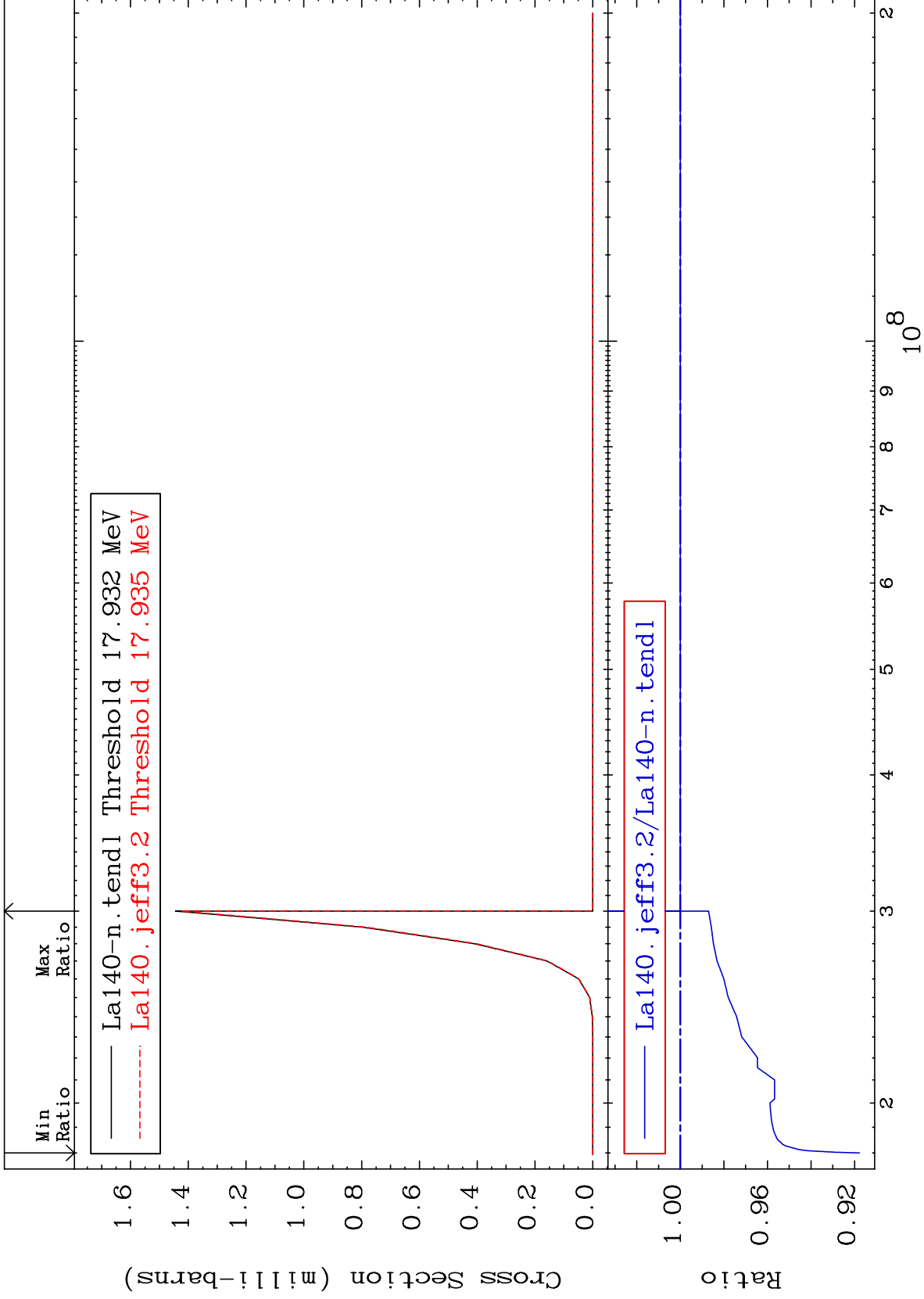
57-La-140
-18.32 To 30.20 %



MAT 5731

(n,2n) d
Cross Section

57-La-140
-8.224 To 0.000 %



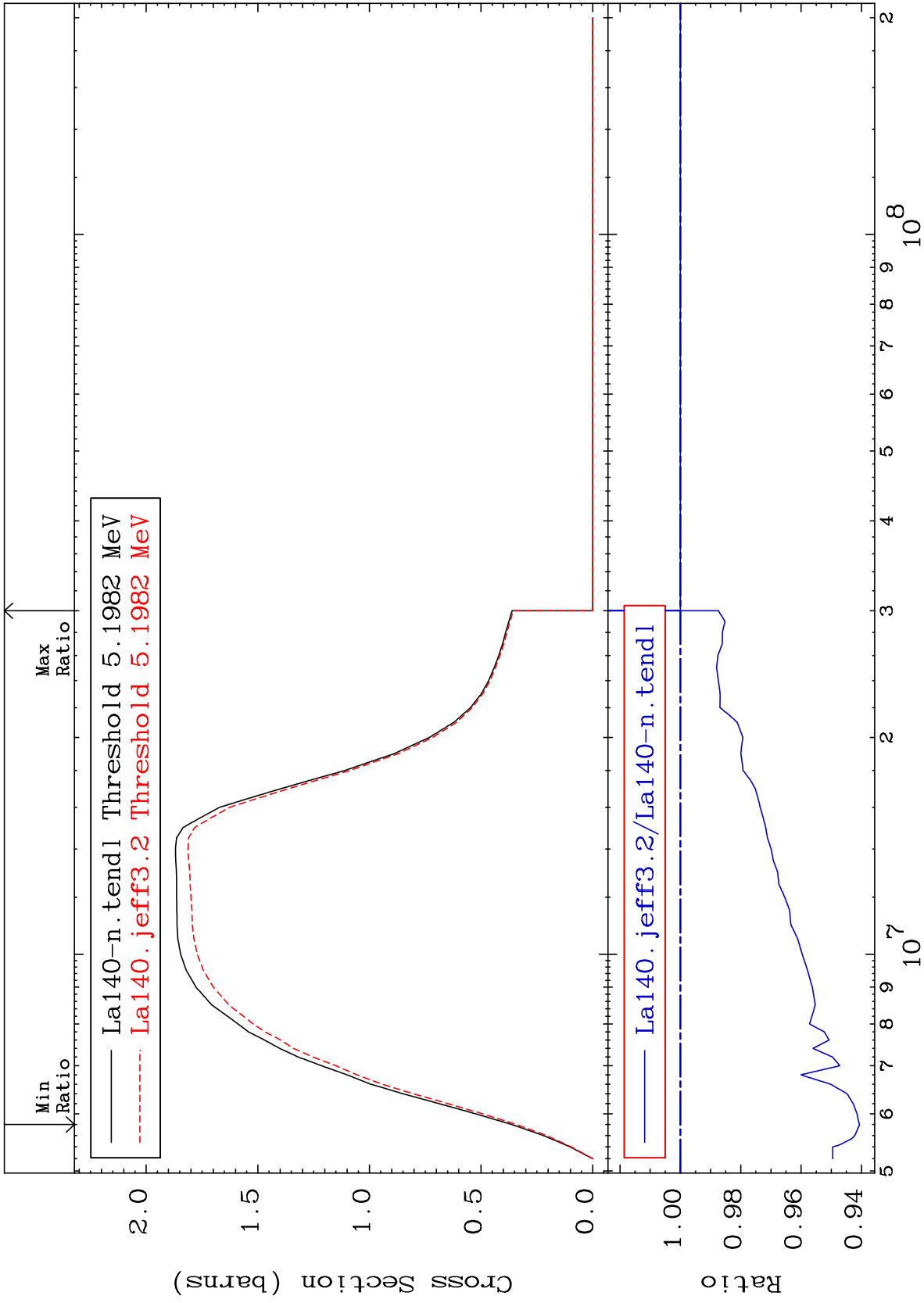
MAT 5731

(n,2n)

57-La-140

Cross Section

-5.932 To 0.000 %



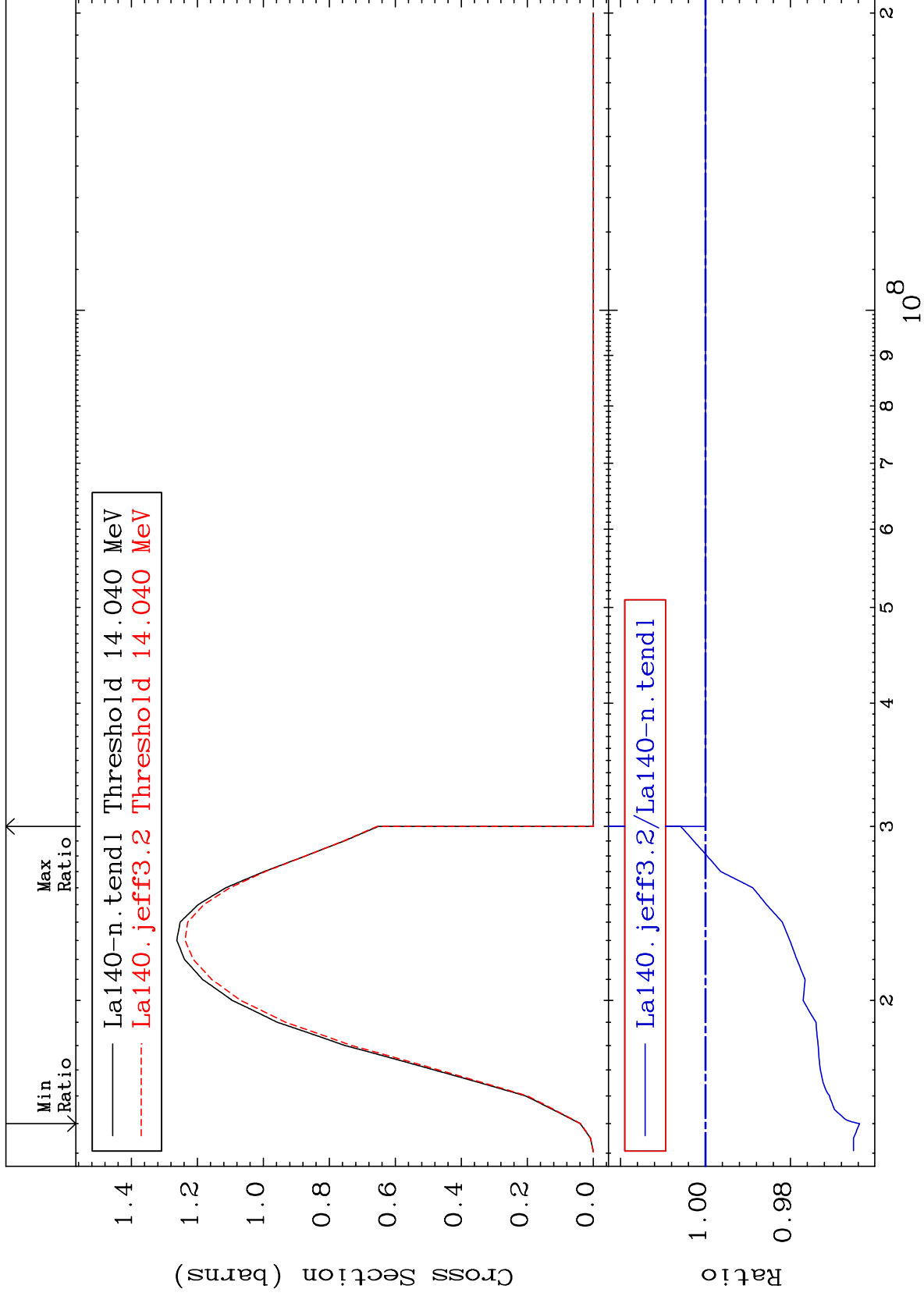
5

Incident Energy (eV)

57-La-140

Cross Section

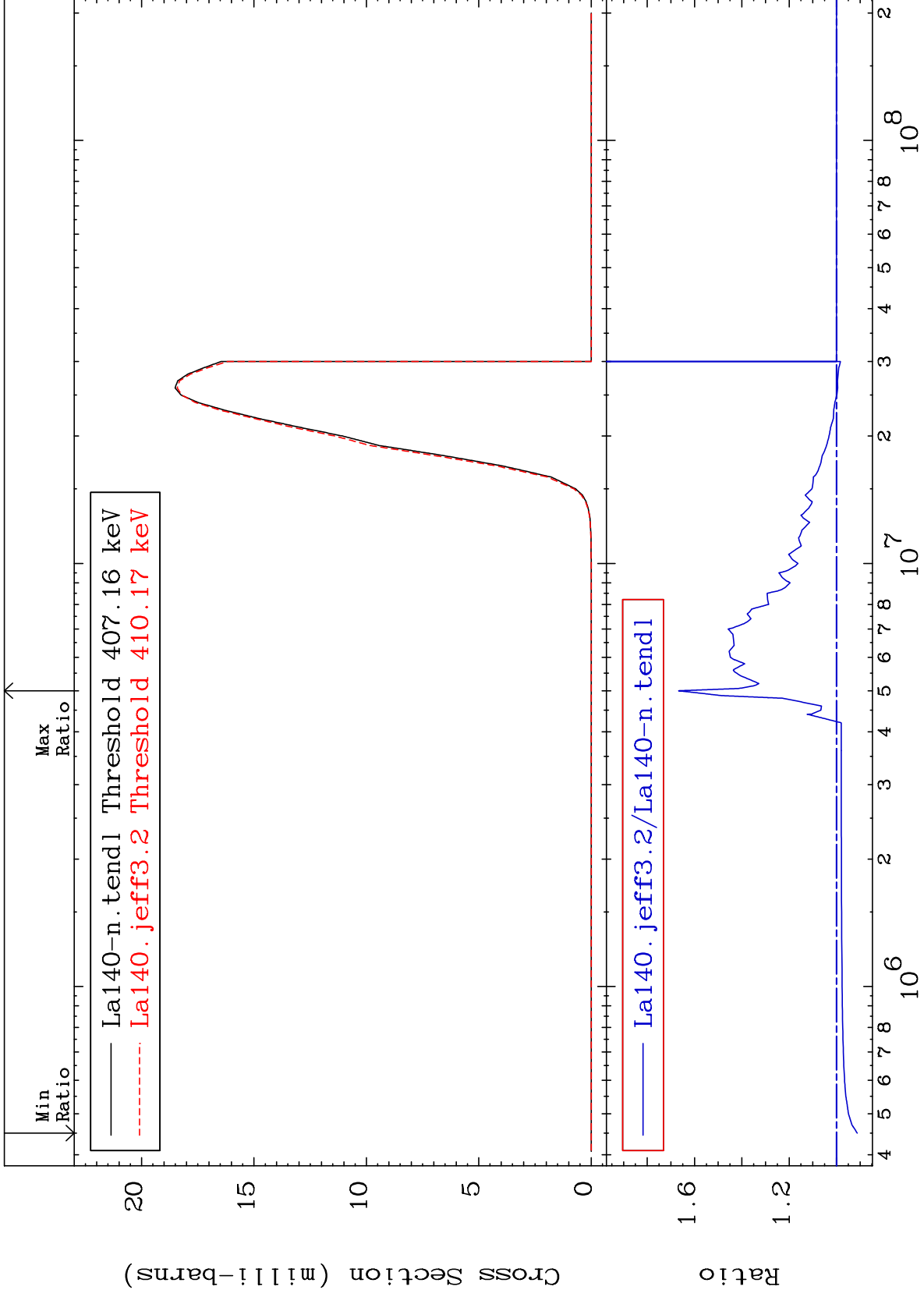
-3.628 To 0.581 %



MAT 5731

(n, n') α
Cross Section

57-La-140
-8.803 To 66.73 %



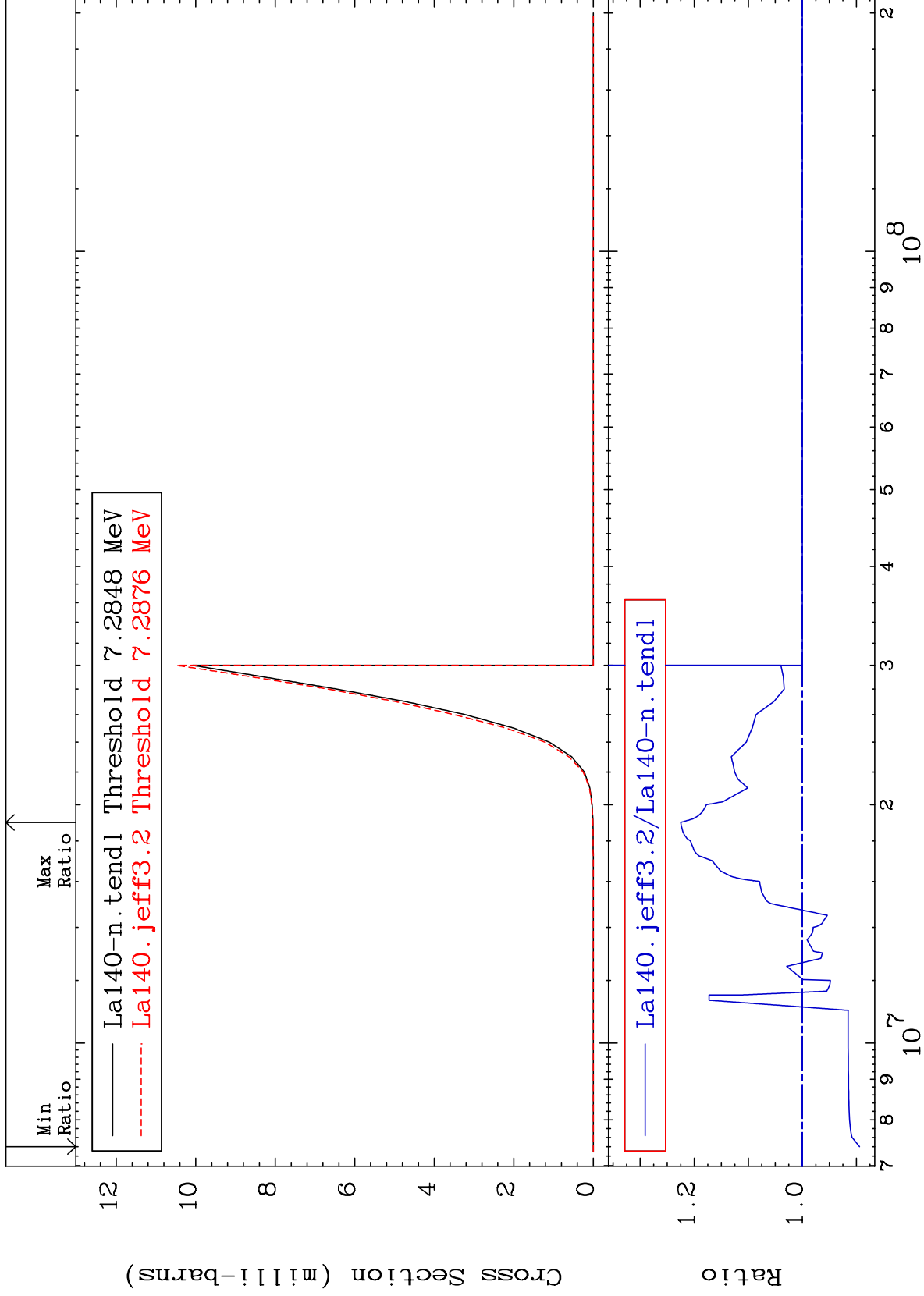
7

57-La-140

MAT 5731

(n,2n) α
Cross Section

57-La-140
-10.59 To 22.49 %



8

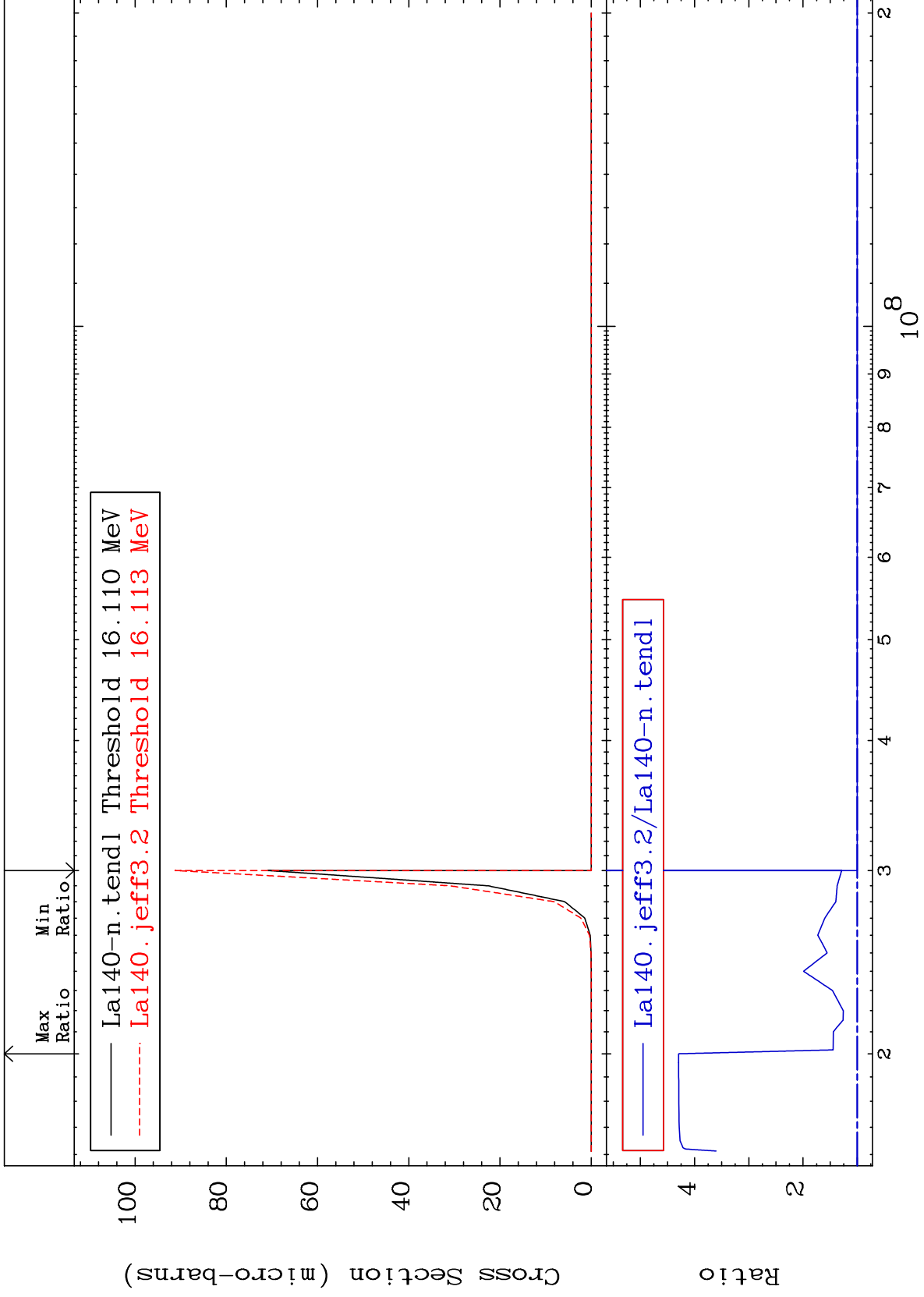
57-La-140

57-La-140

MAT 5731

(n,3n) α
Cross Section

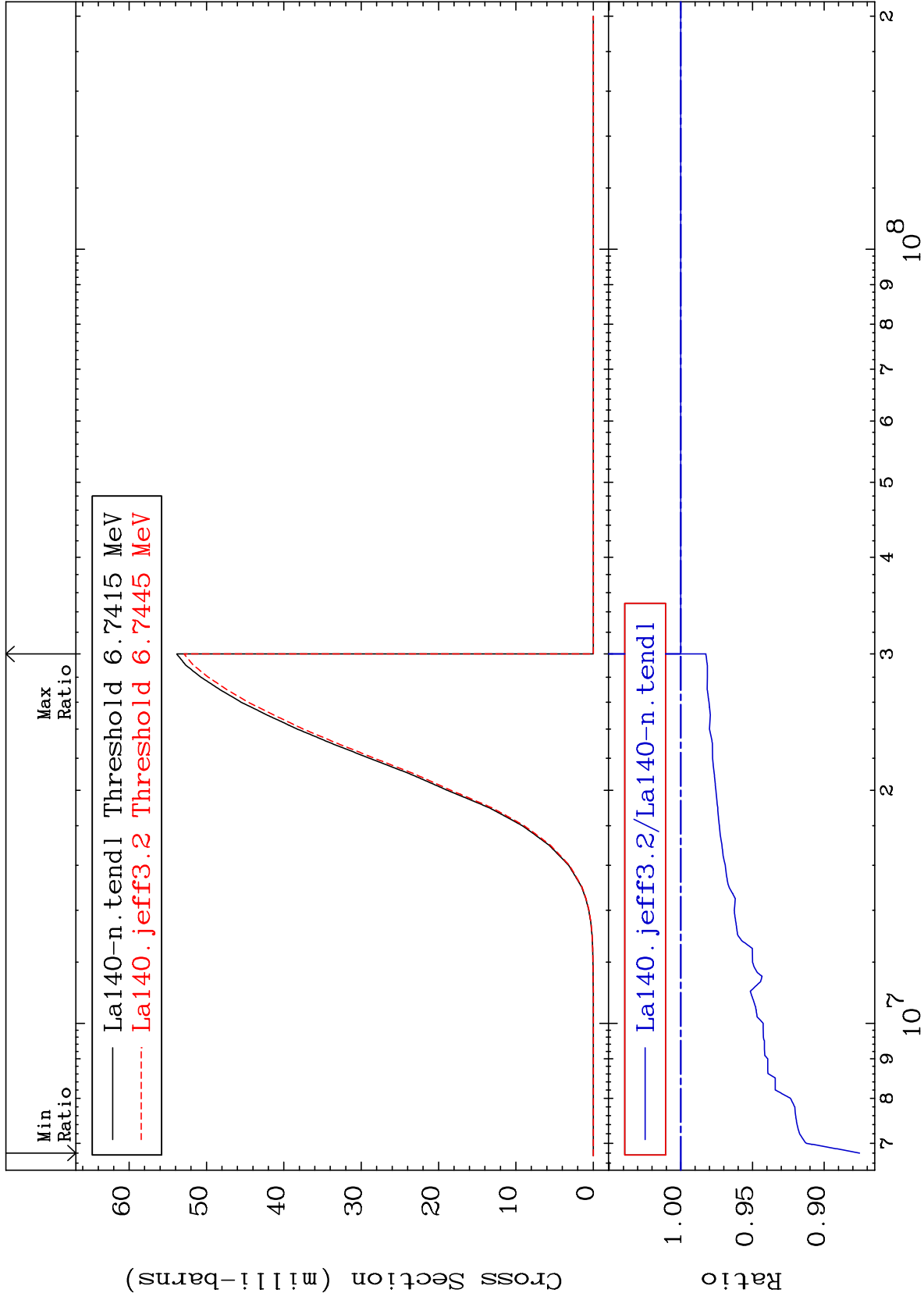
57-La-140
0.000 To 329.4 %



MAT 5731

(n, n') p
Cross Section

57-La-140
-12.46 To 0.000 %



10

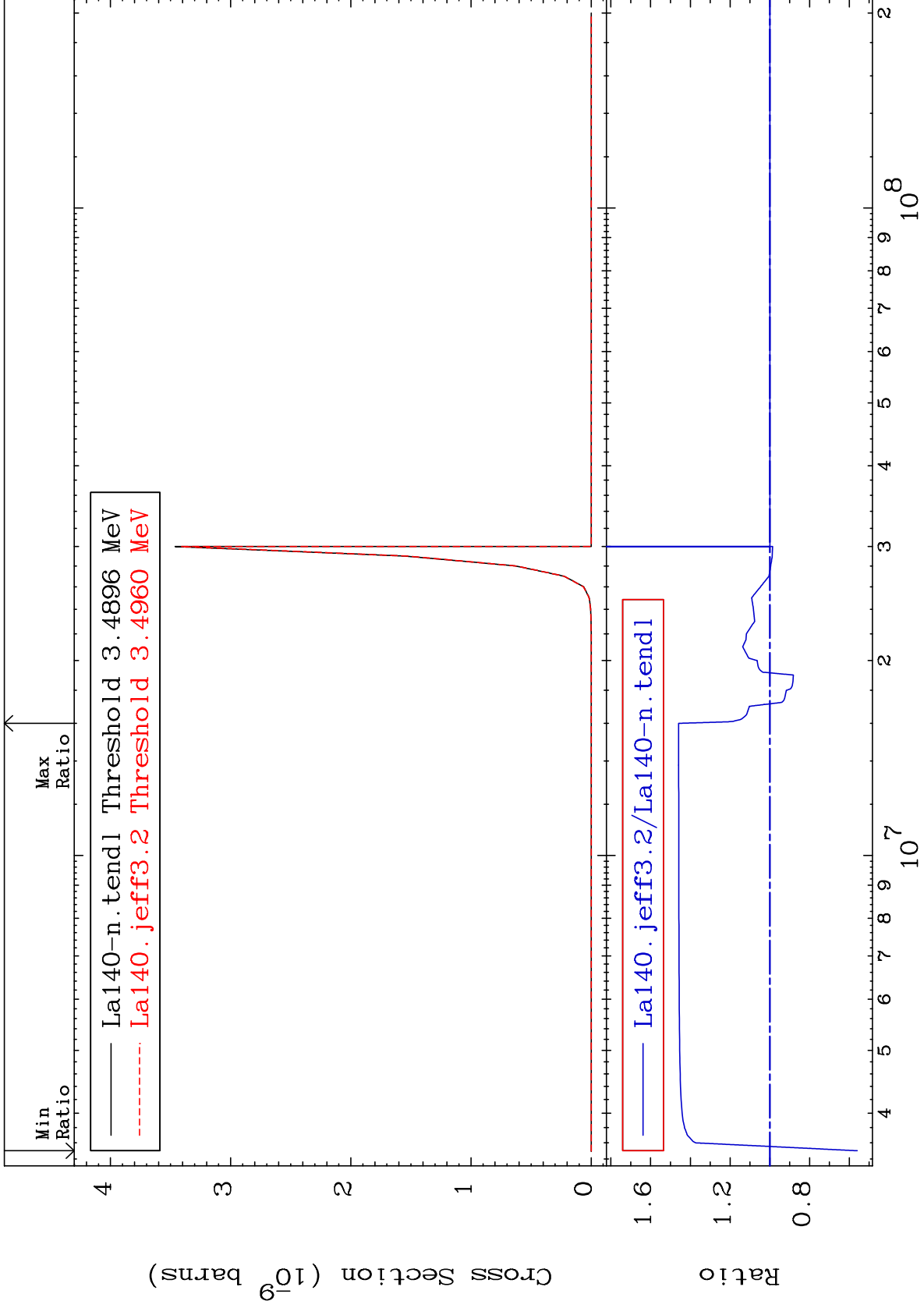
Incident Energy (eV)

57-La-140

MAT 5731

(n, n') 2α
Cross Section

57-La-140
-44.00 To 45.90 %



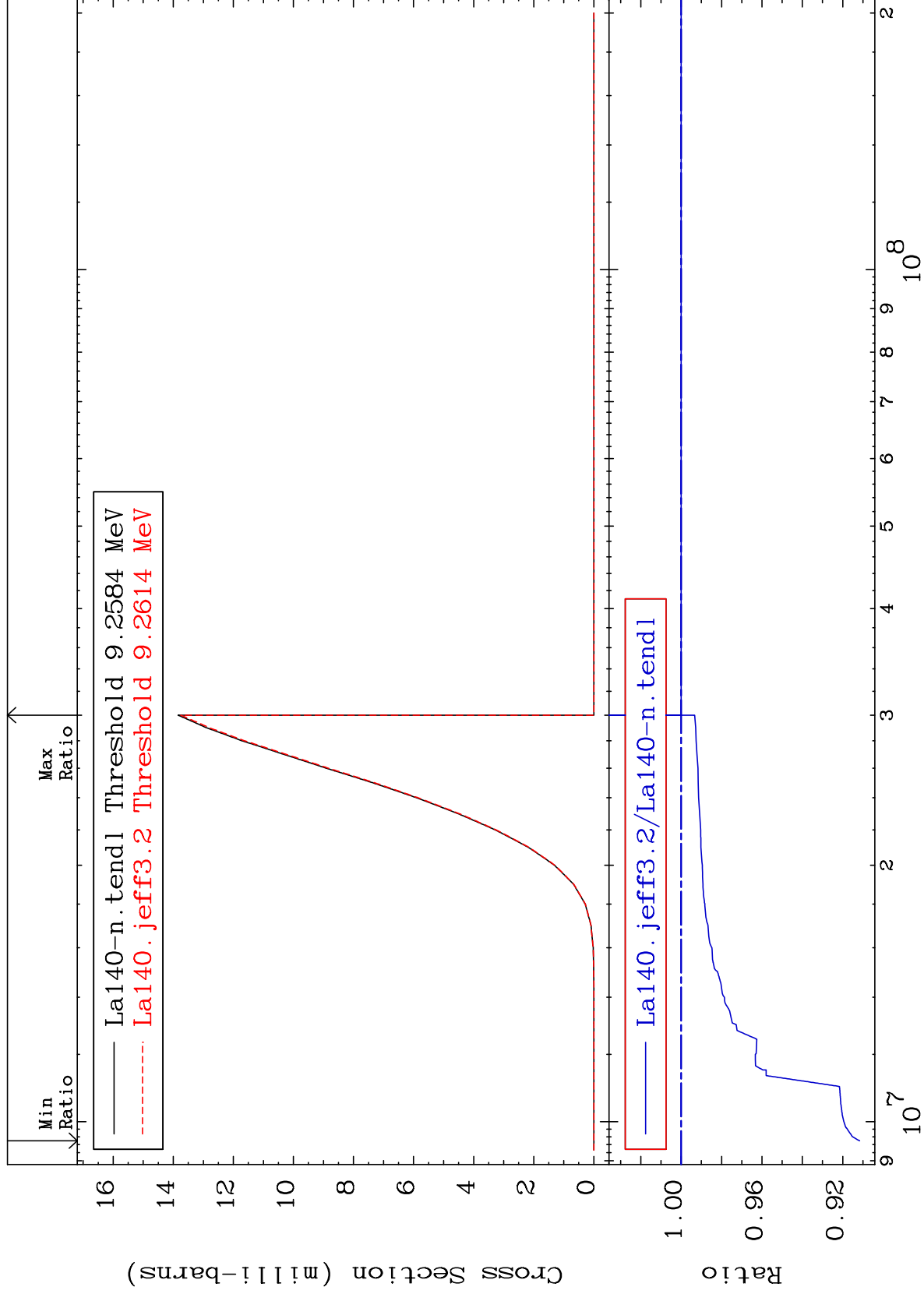
MAT 5731

(n, n') d

57-La-140

Cross Section

-8.838 To 0.000 %



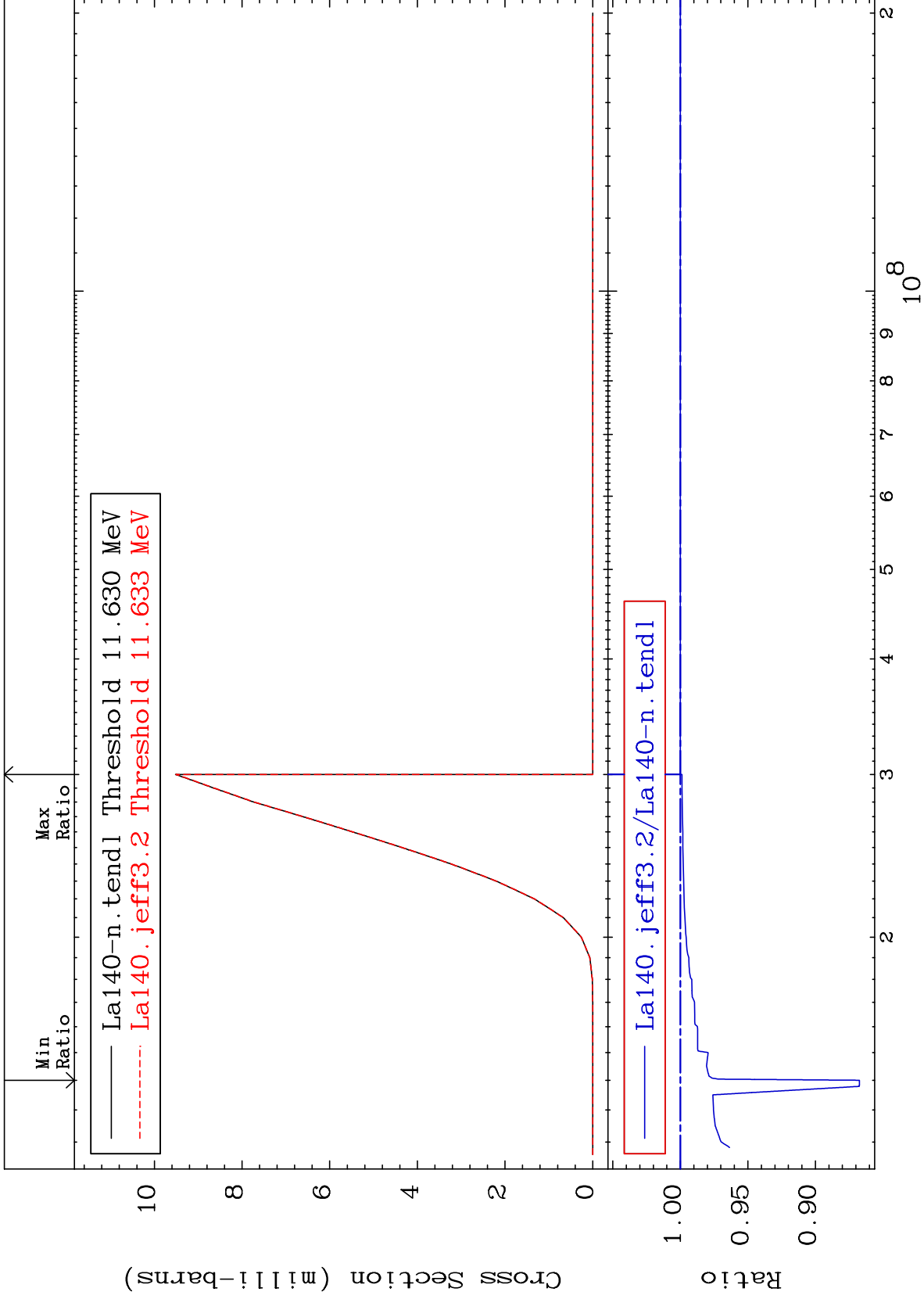
12

Incident Energy (eV)

57-La-140

Cross Section

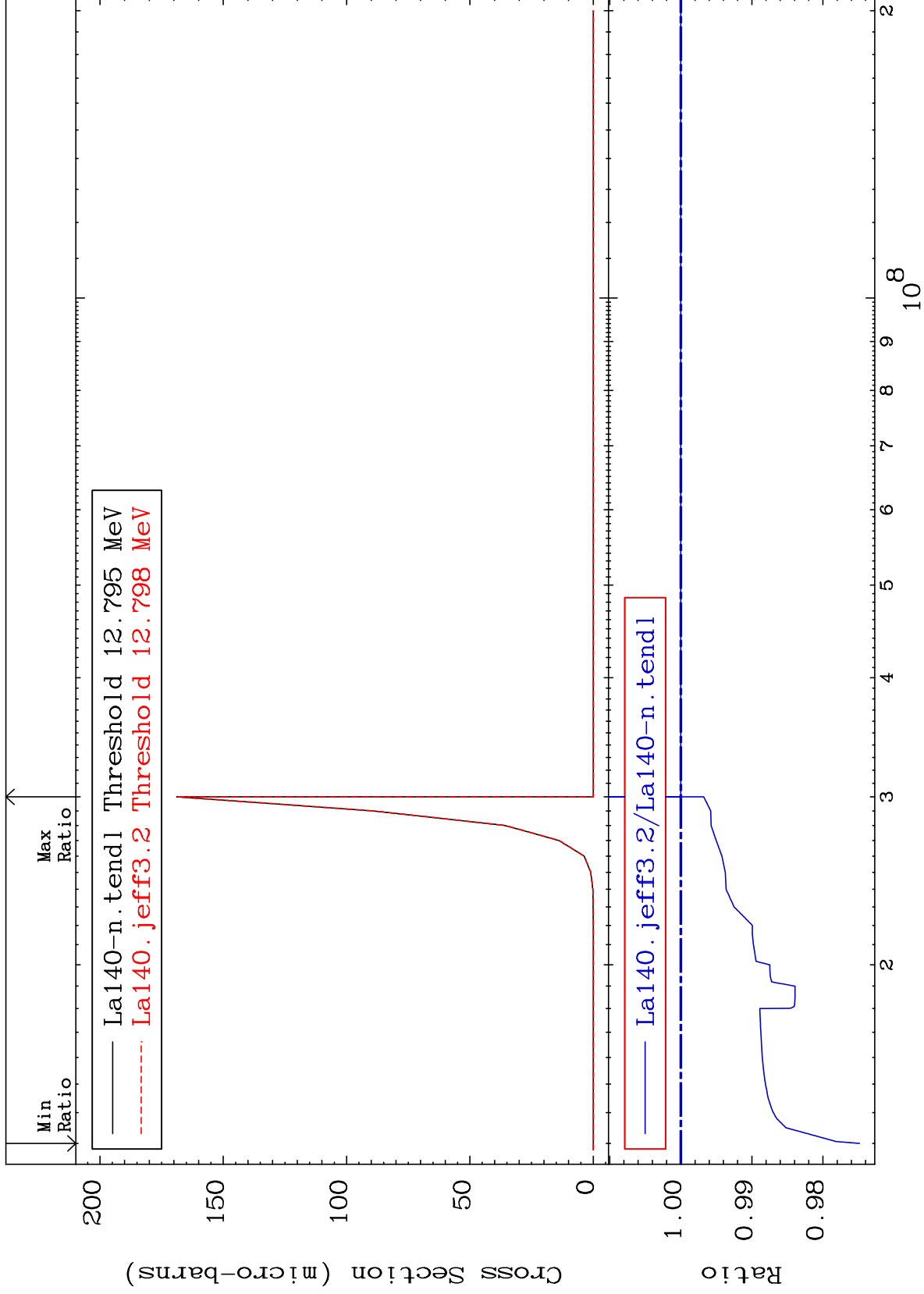
-13.26 To 0.000 %



MAT 5731

(n, n') He-3
Cross Section

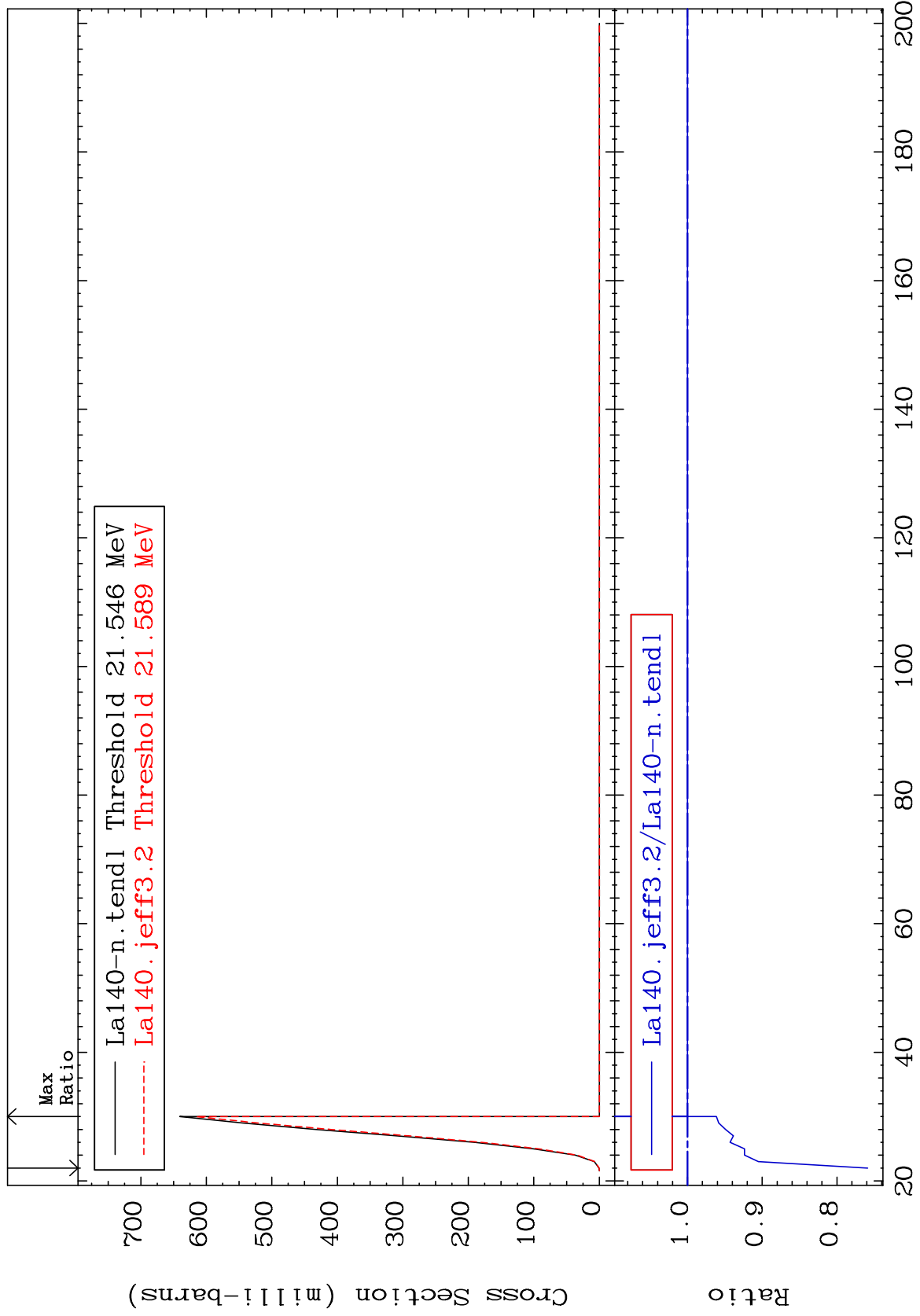
57-La-140
-2.514 To 0.000 %



MAT 5731

(n,4n)
Cross Section

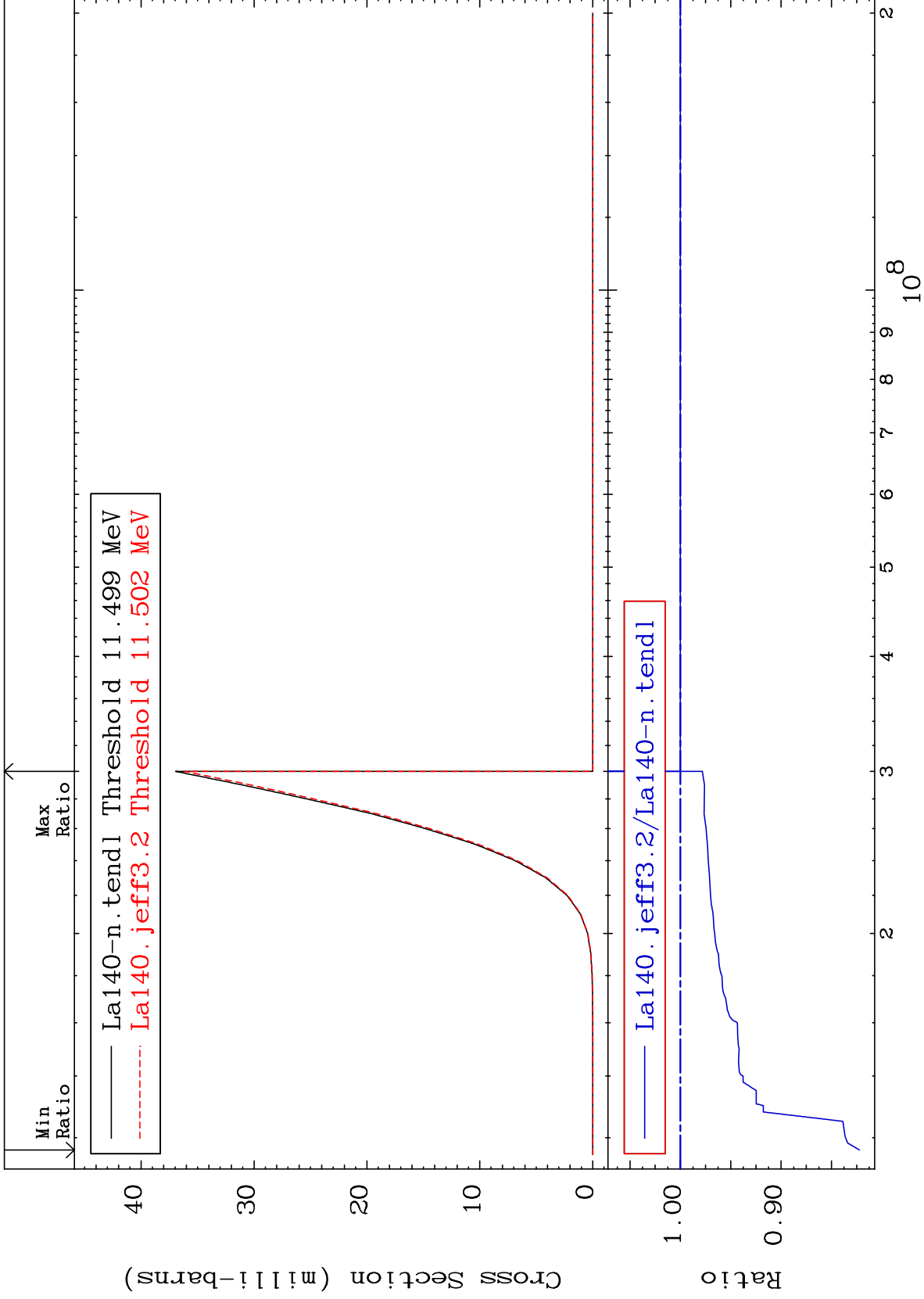
57-La-140
-24.11 To 0.000 %



MAT 5731

(n,2n) p
Cross Section

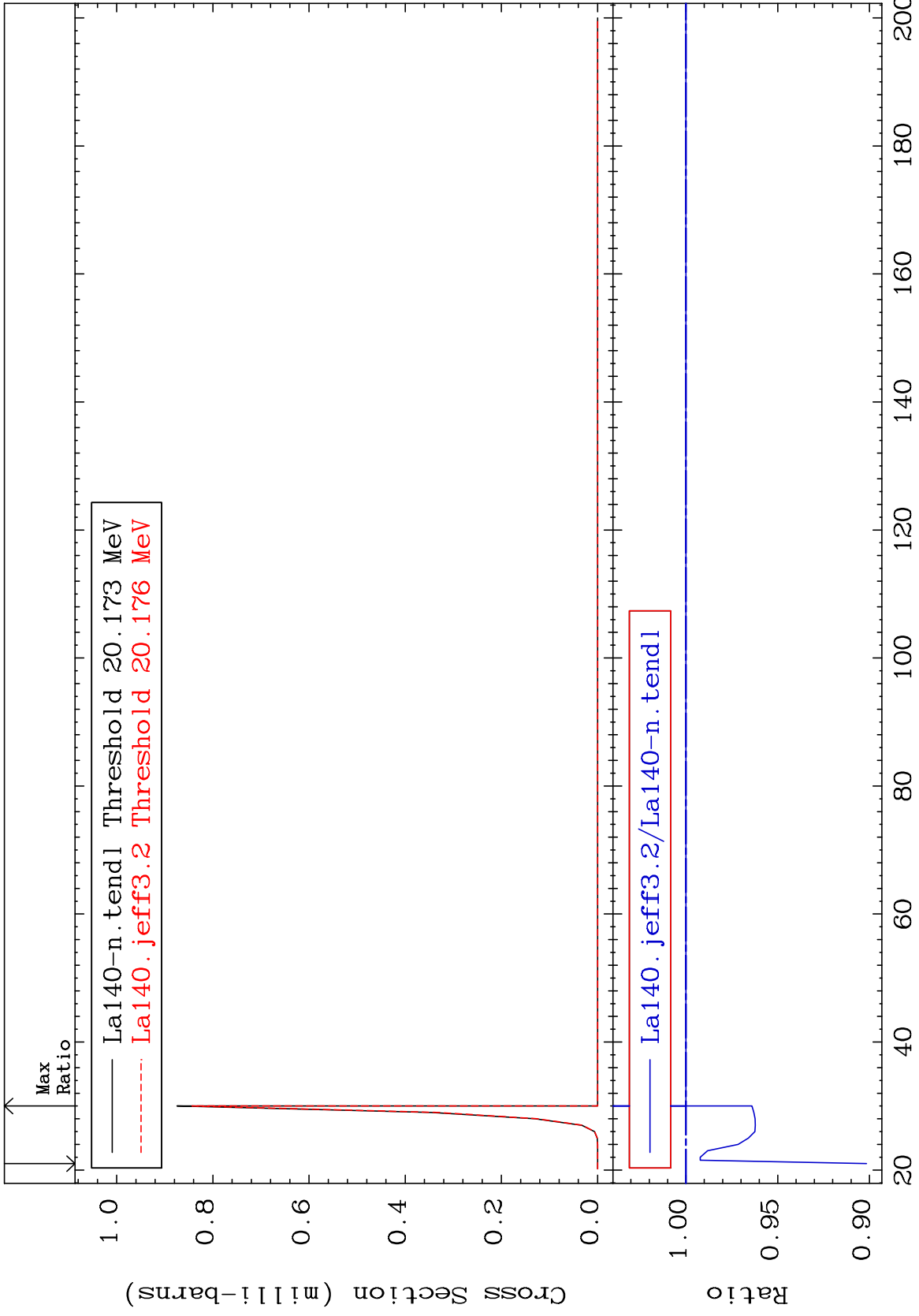
57-La-140
-17.77 To 0.000 %



MAT 5731

(n,3n) p
Cross Section

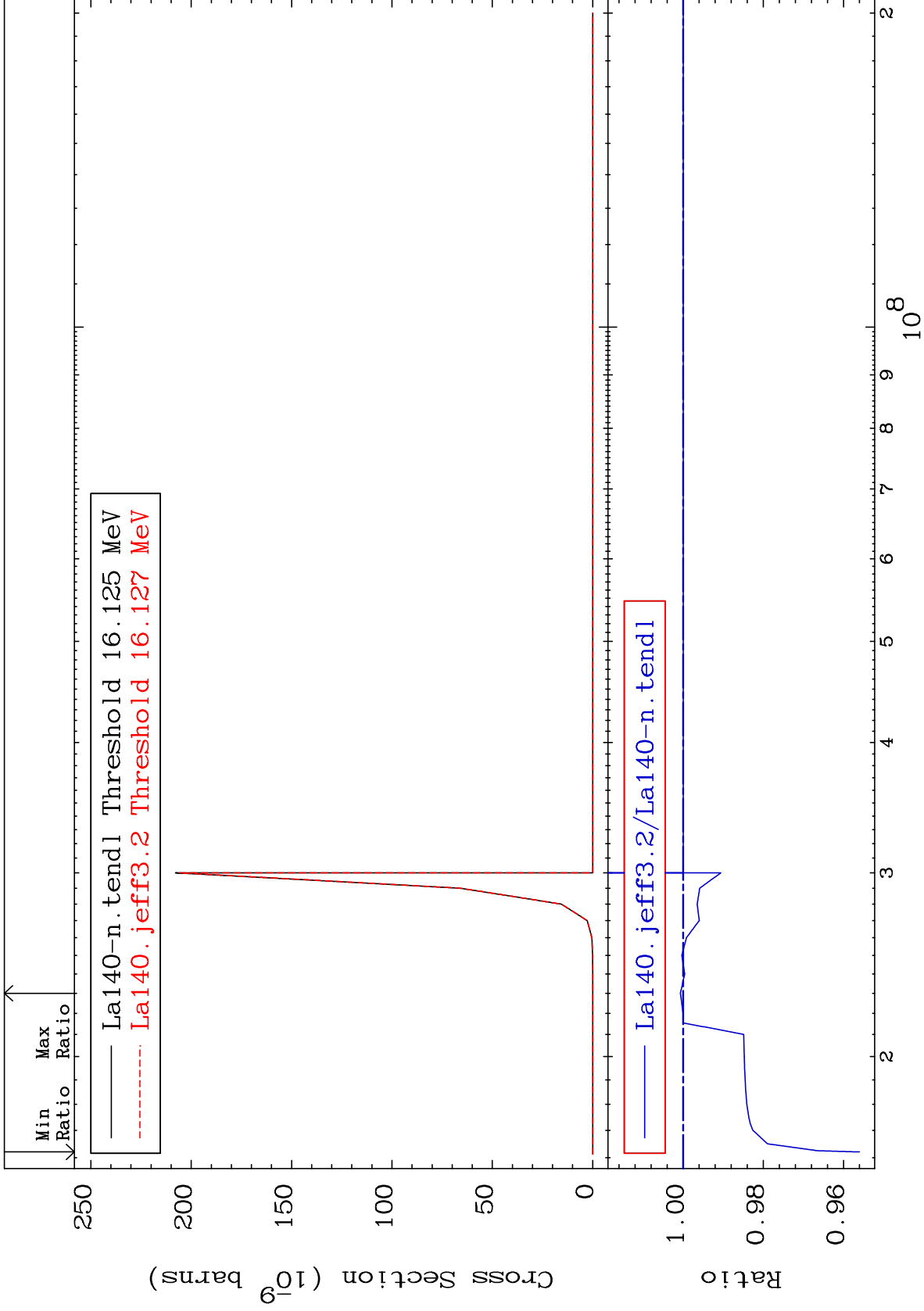
57-La-140
-9.840 To 0.000 %



MAT 5731

(n,2n) p
Cross Section

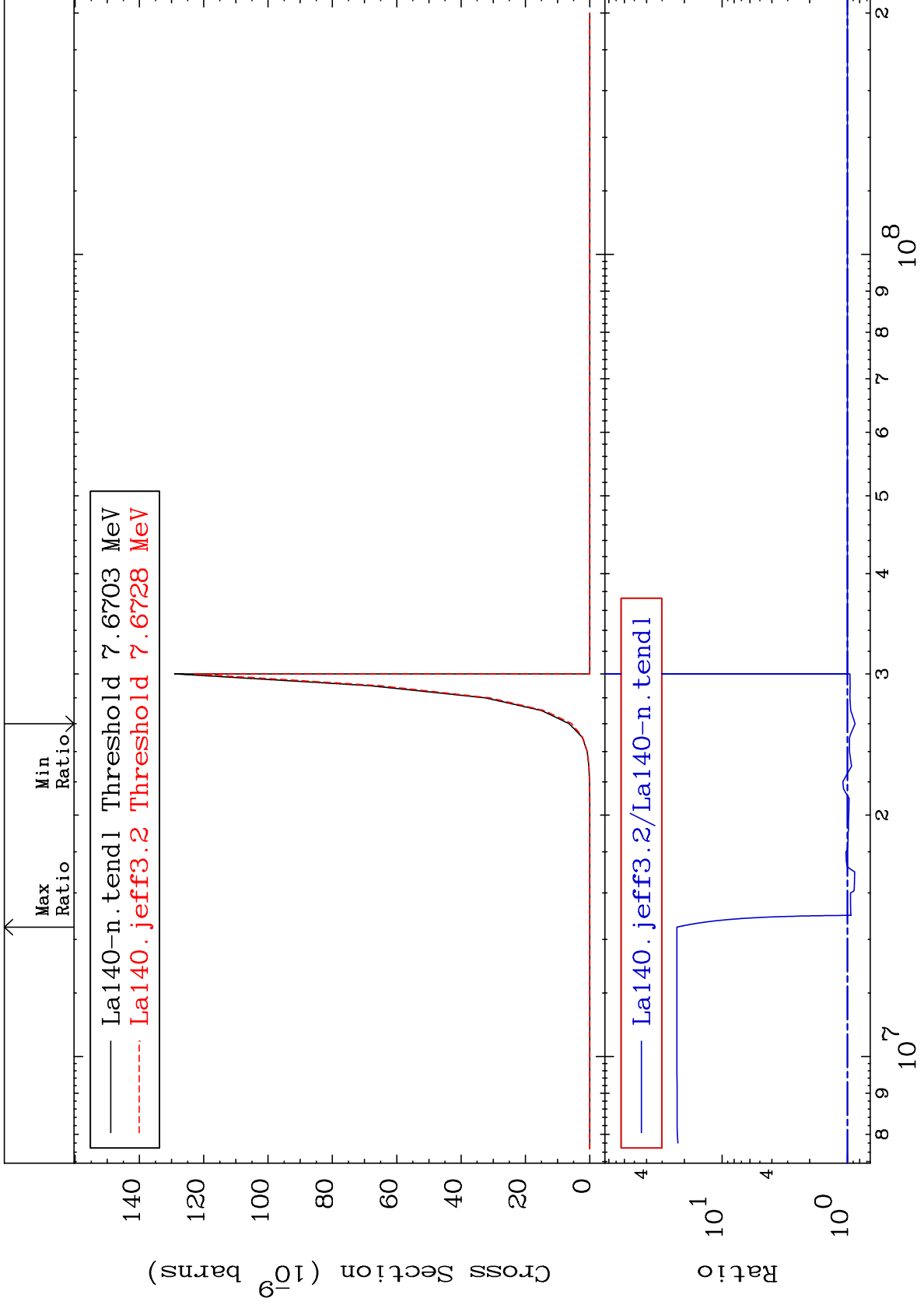
57-La-140
-4.398 To 0.069 %



MAT 5731

(n,n') p α
Cross Section

57-La-140
-13.06 To 2191. %



19

Incident Energy (eV)

57-La-140

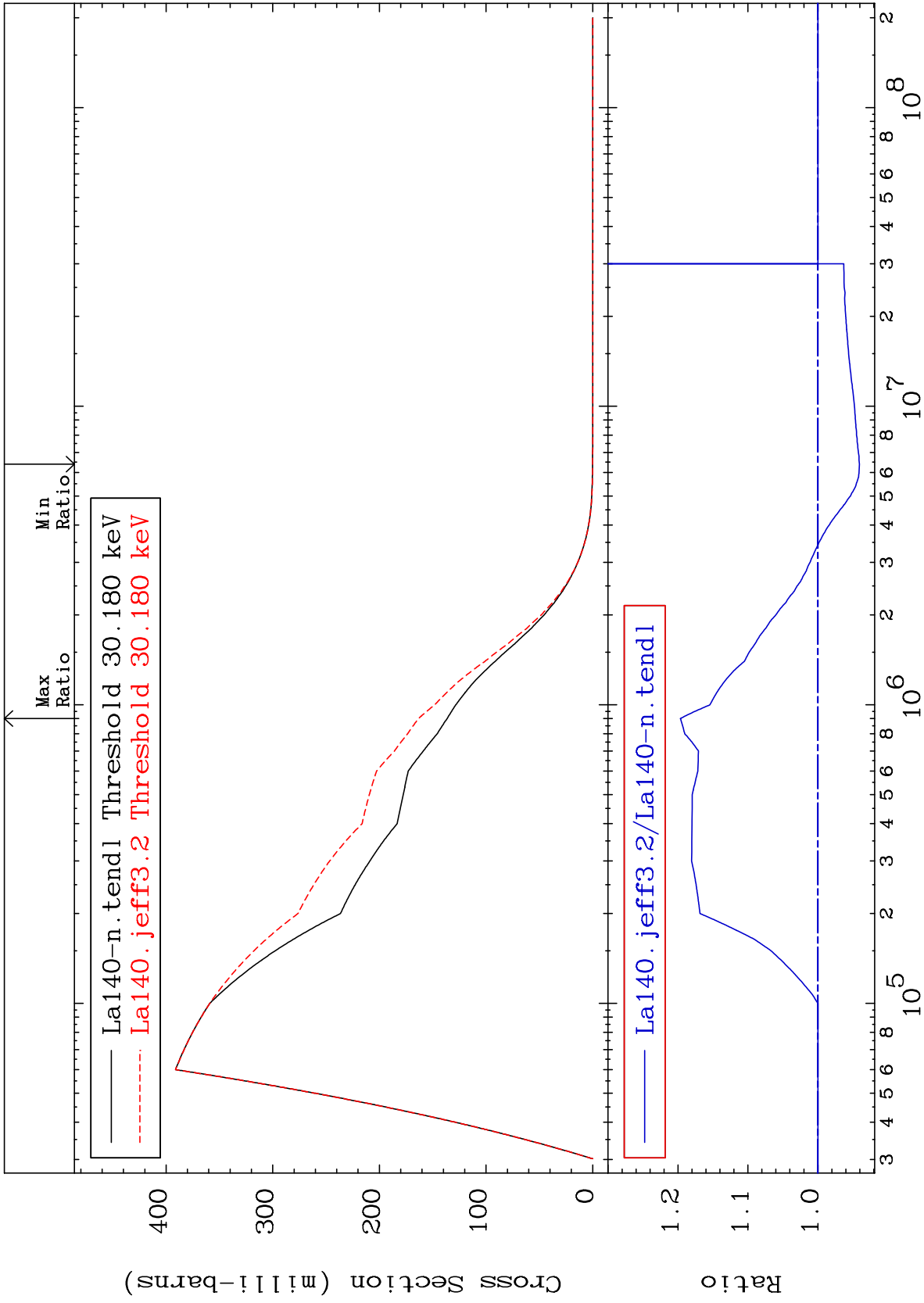
MAT 5731

29.96 keV (n,n') Level

57-La-140

-5.945 To 19.66 %

Cross Section



20

Incident Energy (eV)

57-La-140

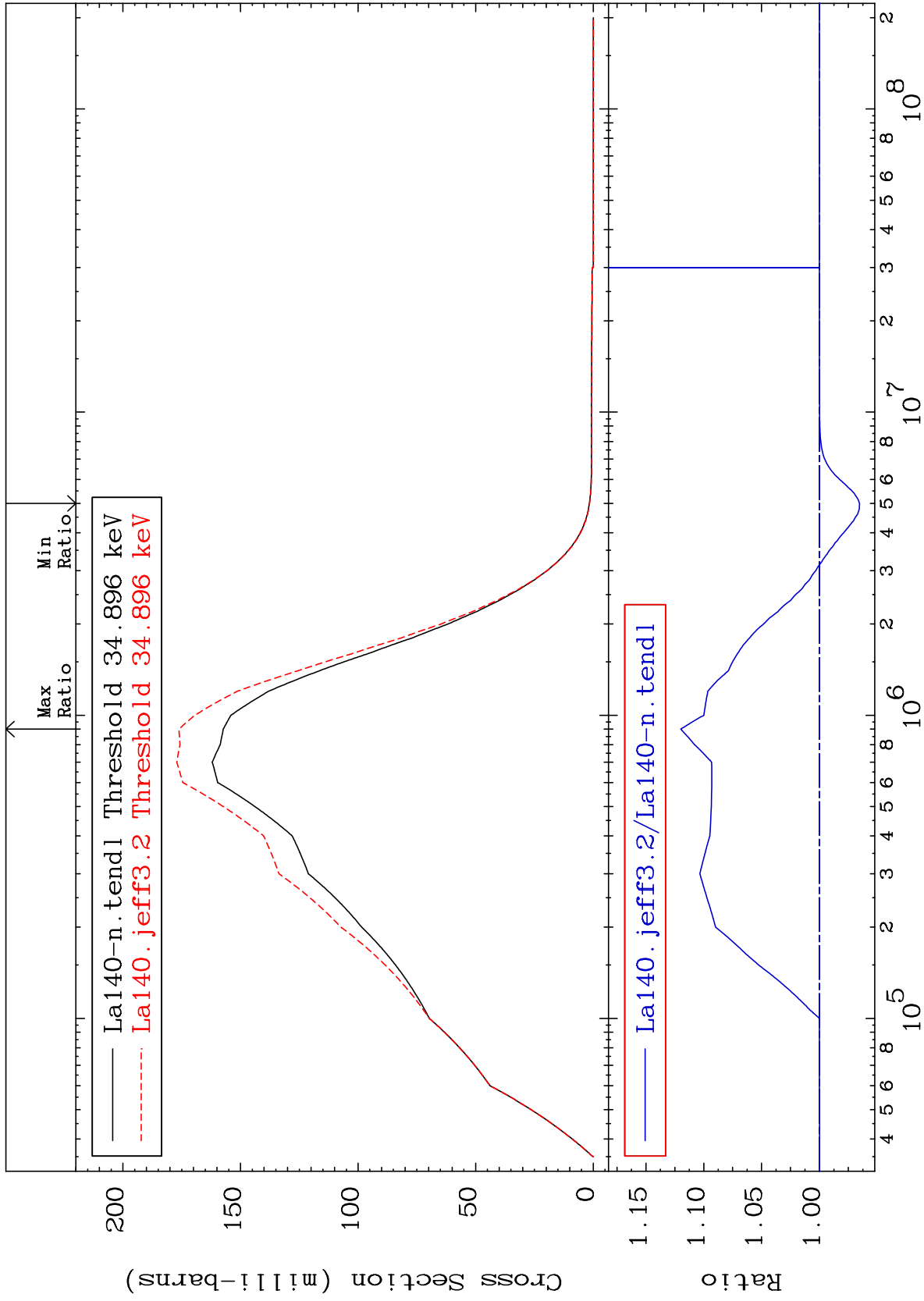
MAT 5731

34.65 keV (n,n') Level

57-La-140

-3.469 To 11.98 %

Cross Section



21

Incident Energy (eV)

57-La-140

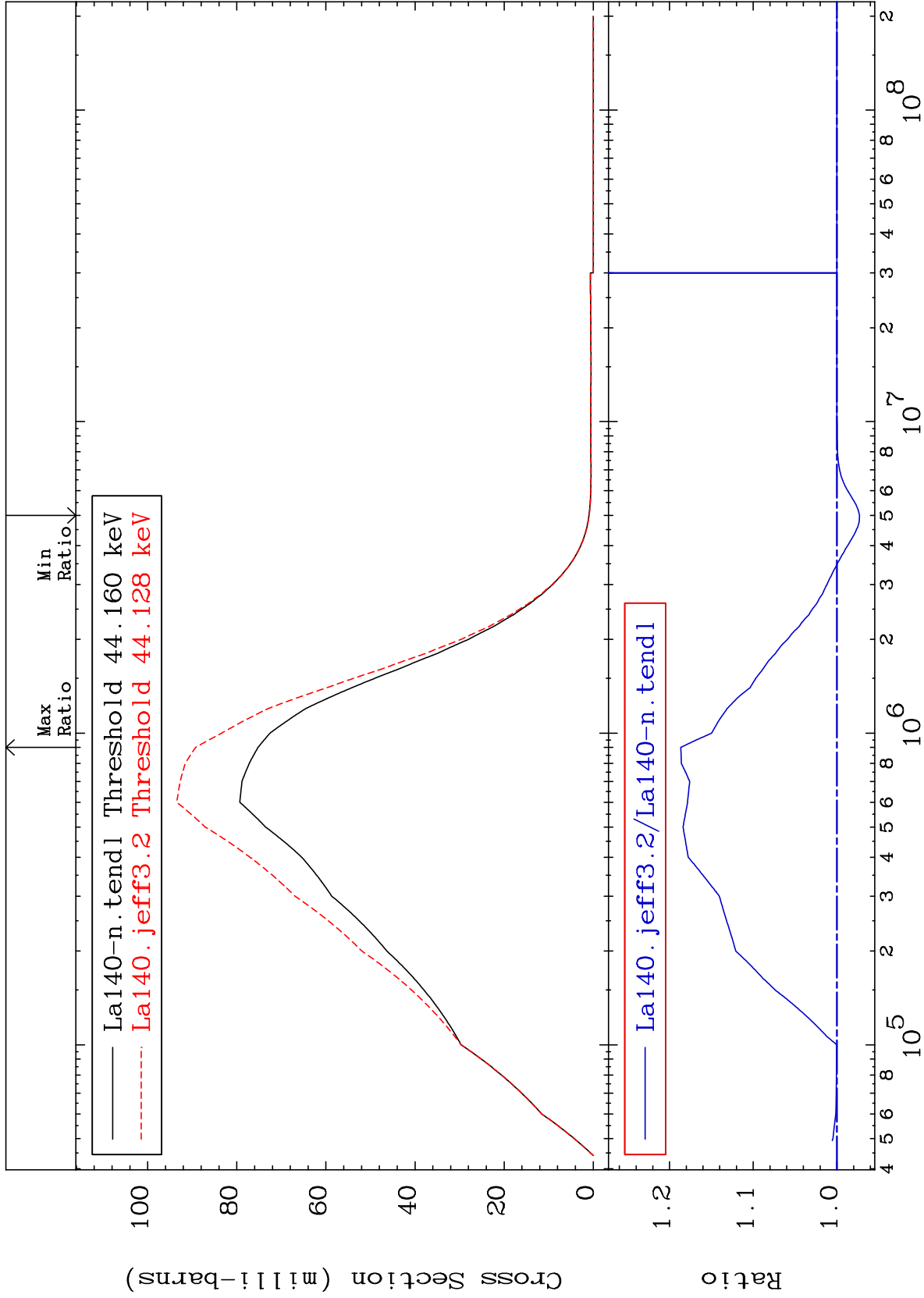
MAT 5731

43.84 keV (n,n') Level

57-La-140

-2.706 To 18.66 %

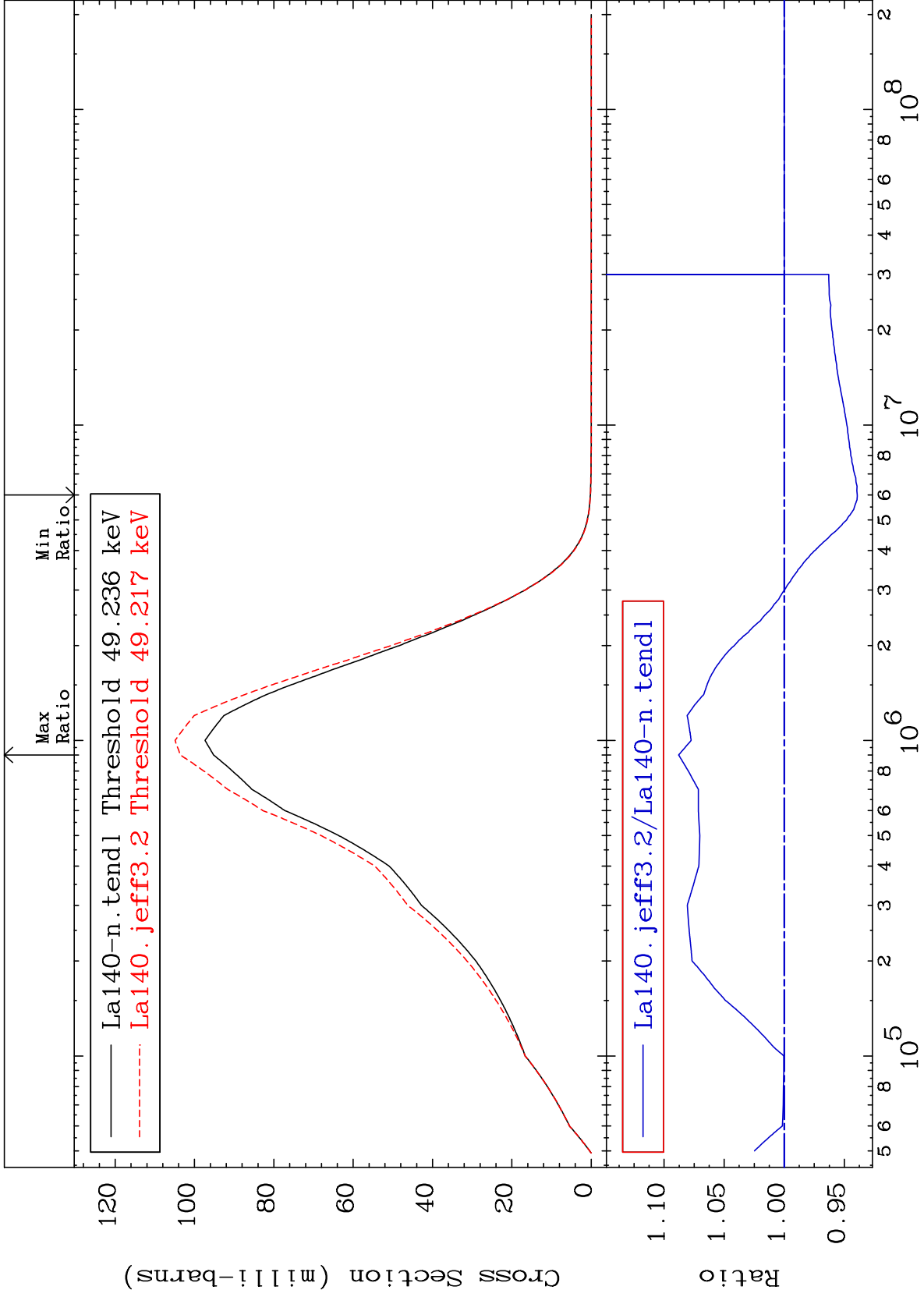
Cross Section



MAT 5731

48.88 keV (n,n') Level
Cross Section

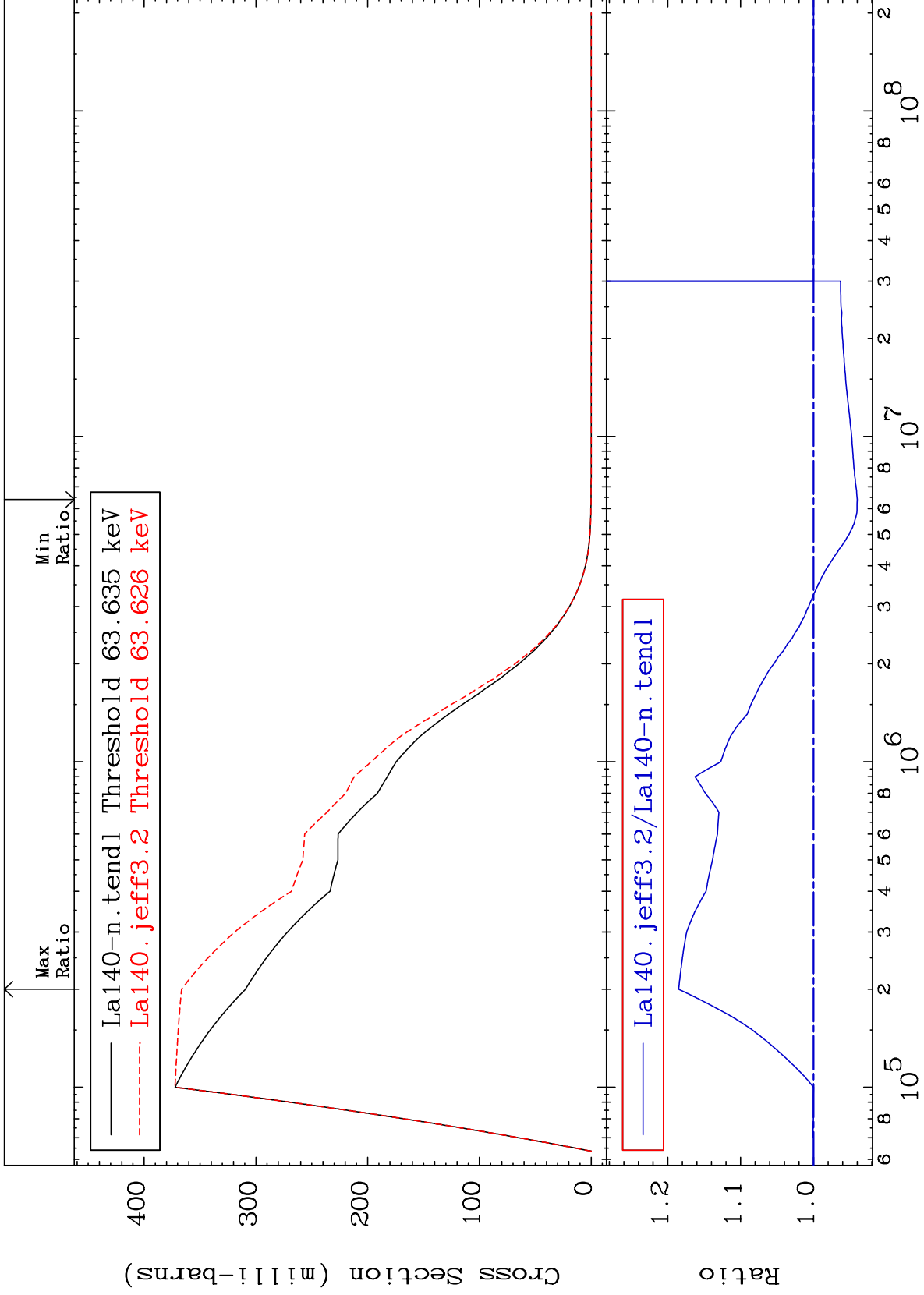
57-La-140
-6.078 To 8.790 %



MAT 5731

63.18 keV (n,n') Level
Cross Section

57-La-140
-5.993 To 18.50 %

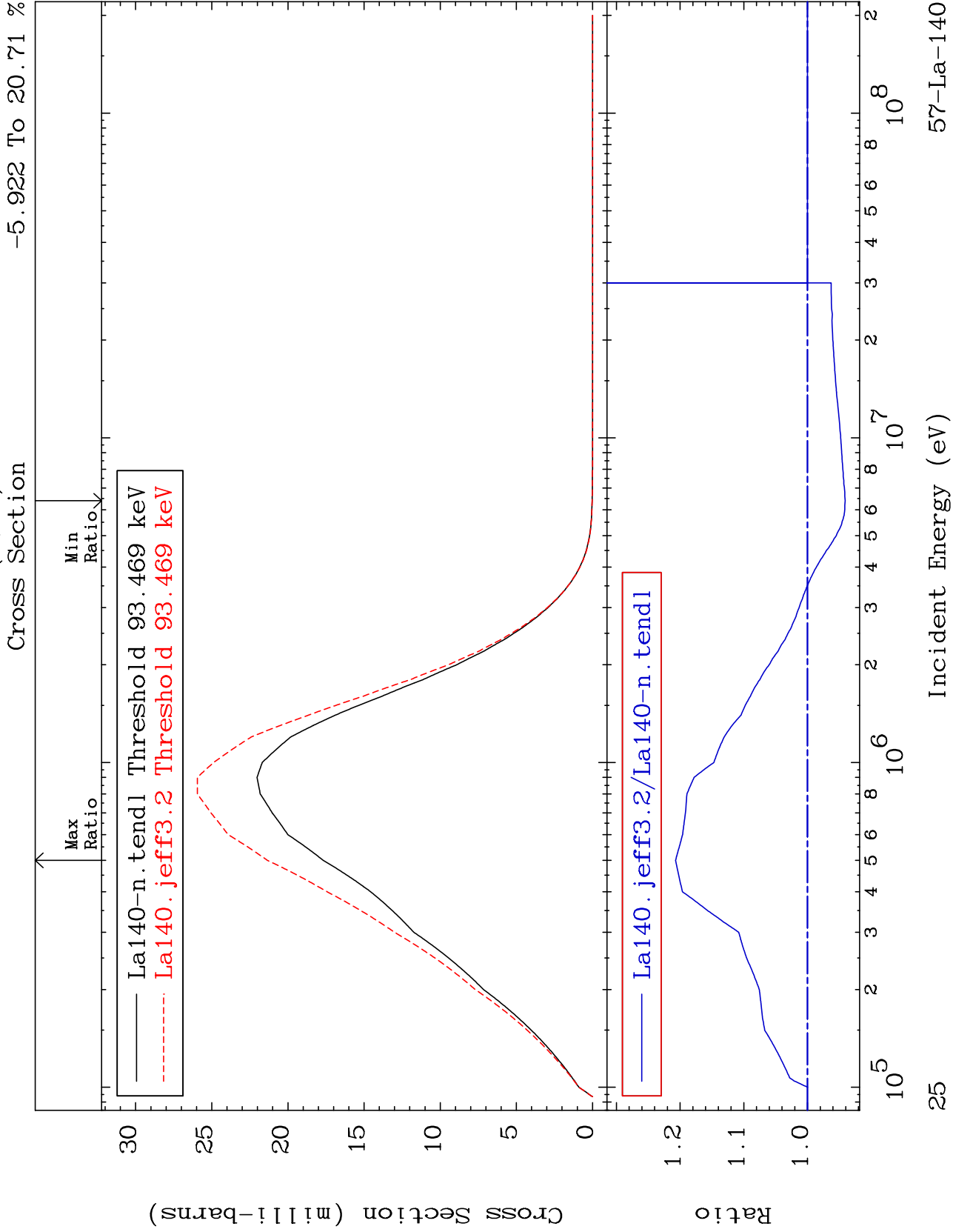


MAT 5731

92.80 keV (n,n') Level

57-La-140

-5.922 To 20.71 %



25

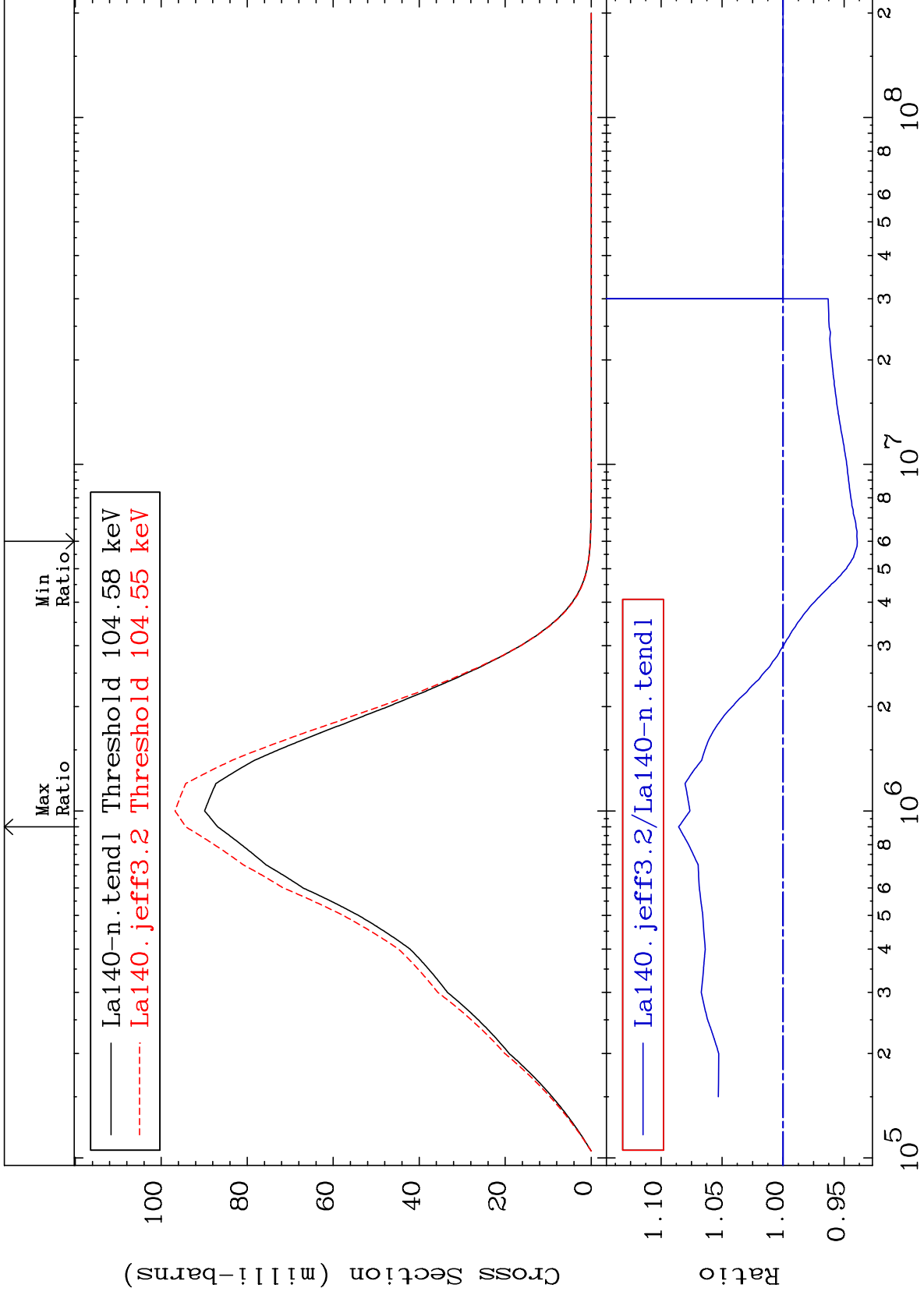
Incident Energy (eV)

57-La-140

MAT 5731

103.8 keV (n,n') Level
Cross Section

57-La-140
-6.078 To 8.559 %



26

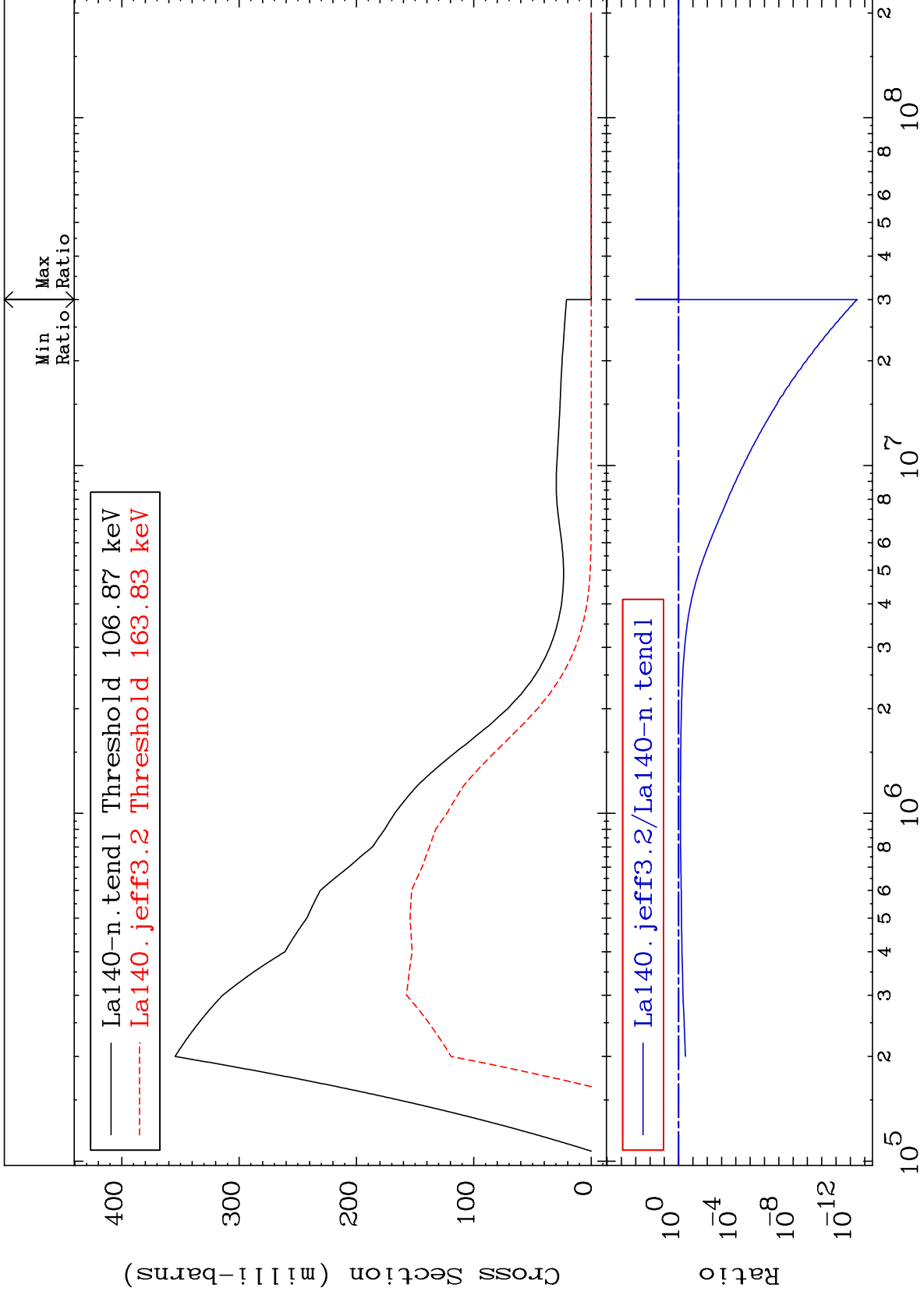
Incident Energy (eV)

57-La-140

MAT 5731

106.1 keV (n,n') Level
Cross Section

57-La-140
-100.0 To 0.000 %

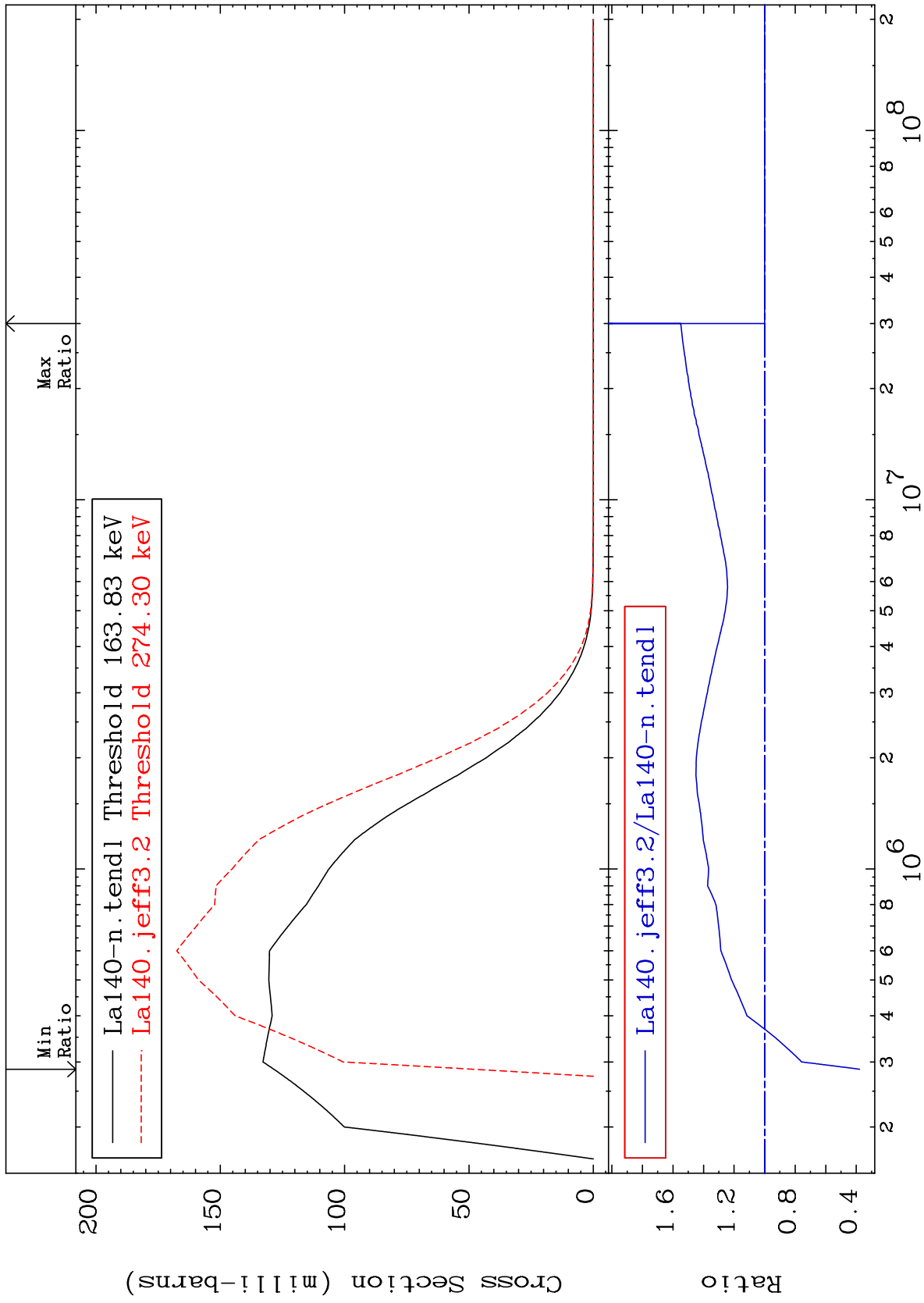


27

Incident Energy (eV)

57-La-140

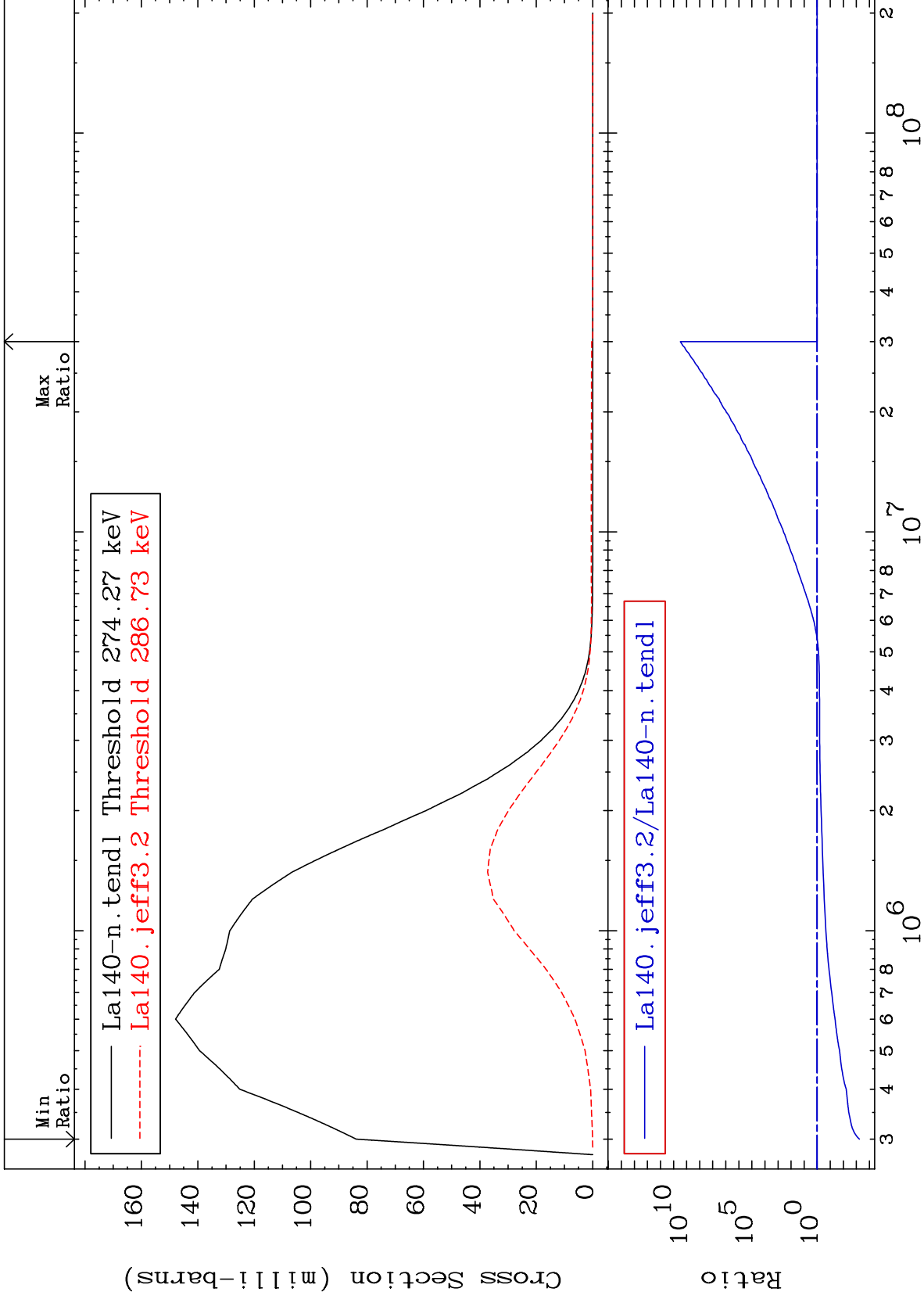
MAT 5731 162.7 keV (n,n') Level 57-La-140
 Cross Section -62.15 To 54.90 %



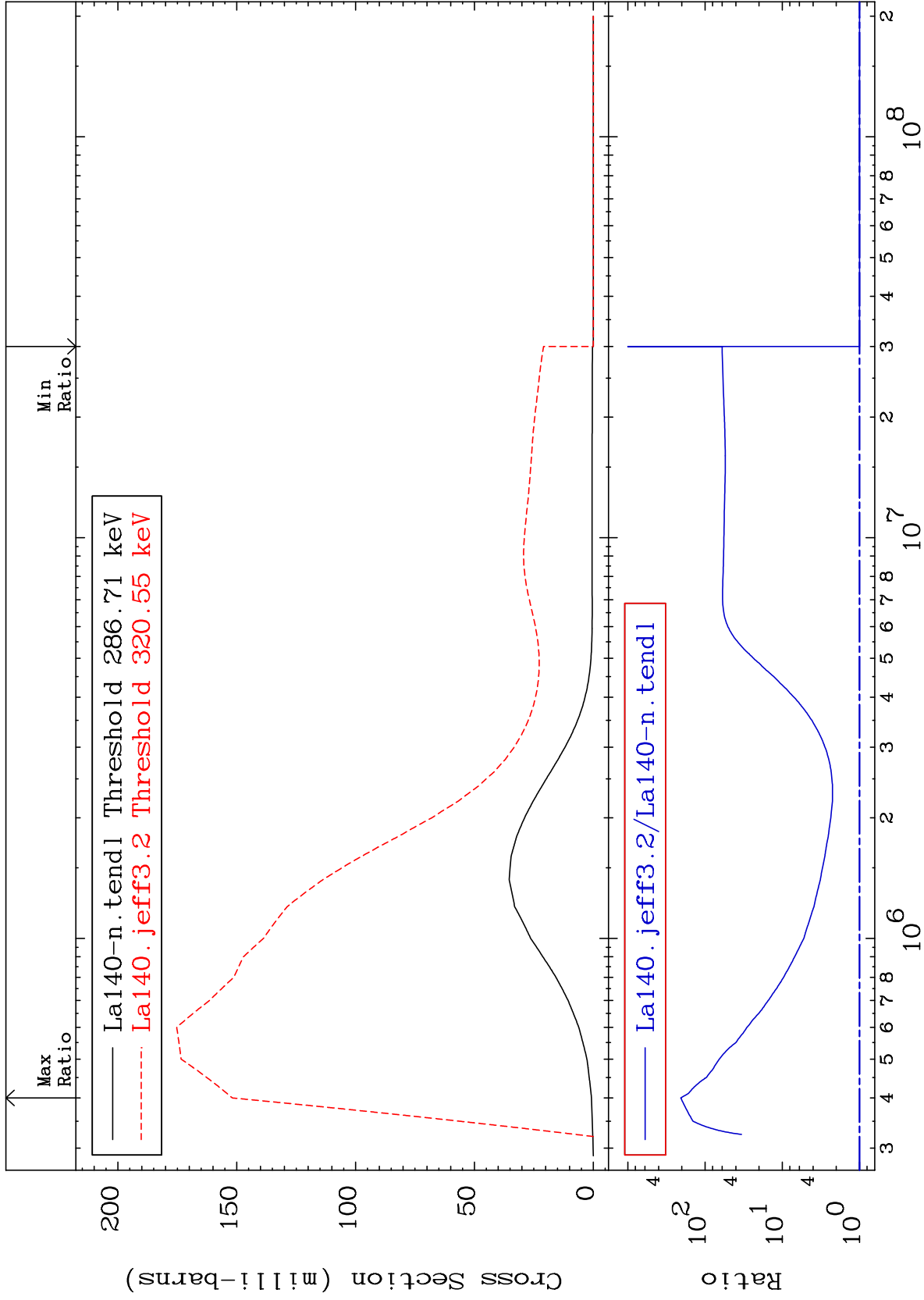
MAT 5731

272.3 keV (n,n') Level
Cross Section

57-La-140
-99.94 To 9999. %



MAT 5731 284.7 keV (n,n') Level 57-La-140
 Cross Section 0.000 To 9999. %

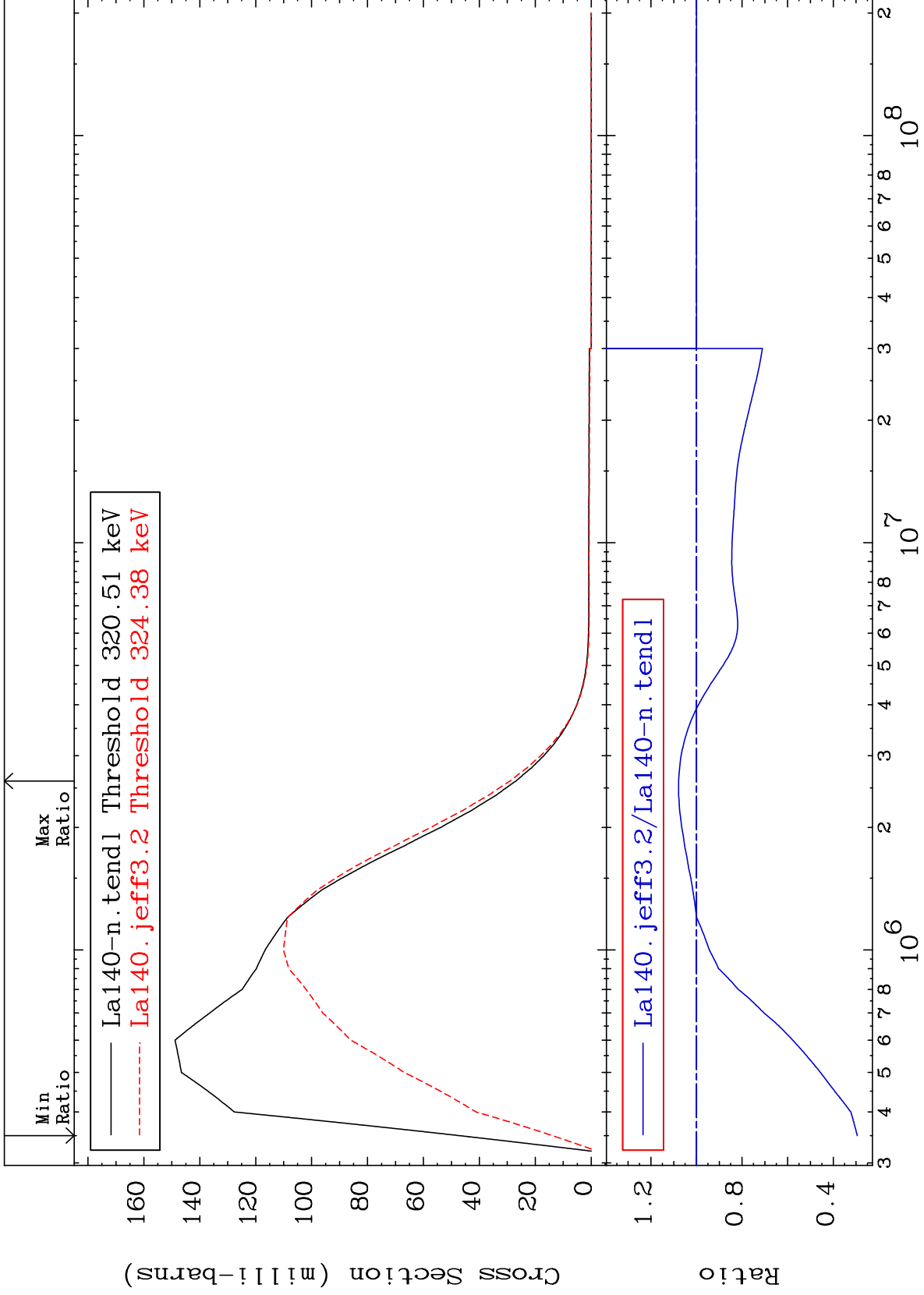


30 Incident Energy (eV) 57-La-140

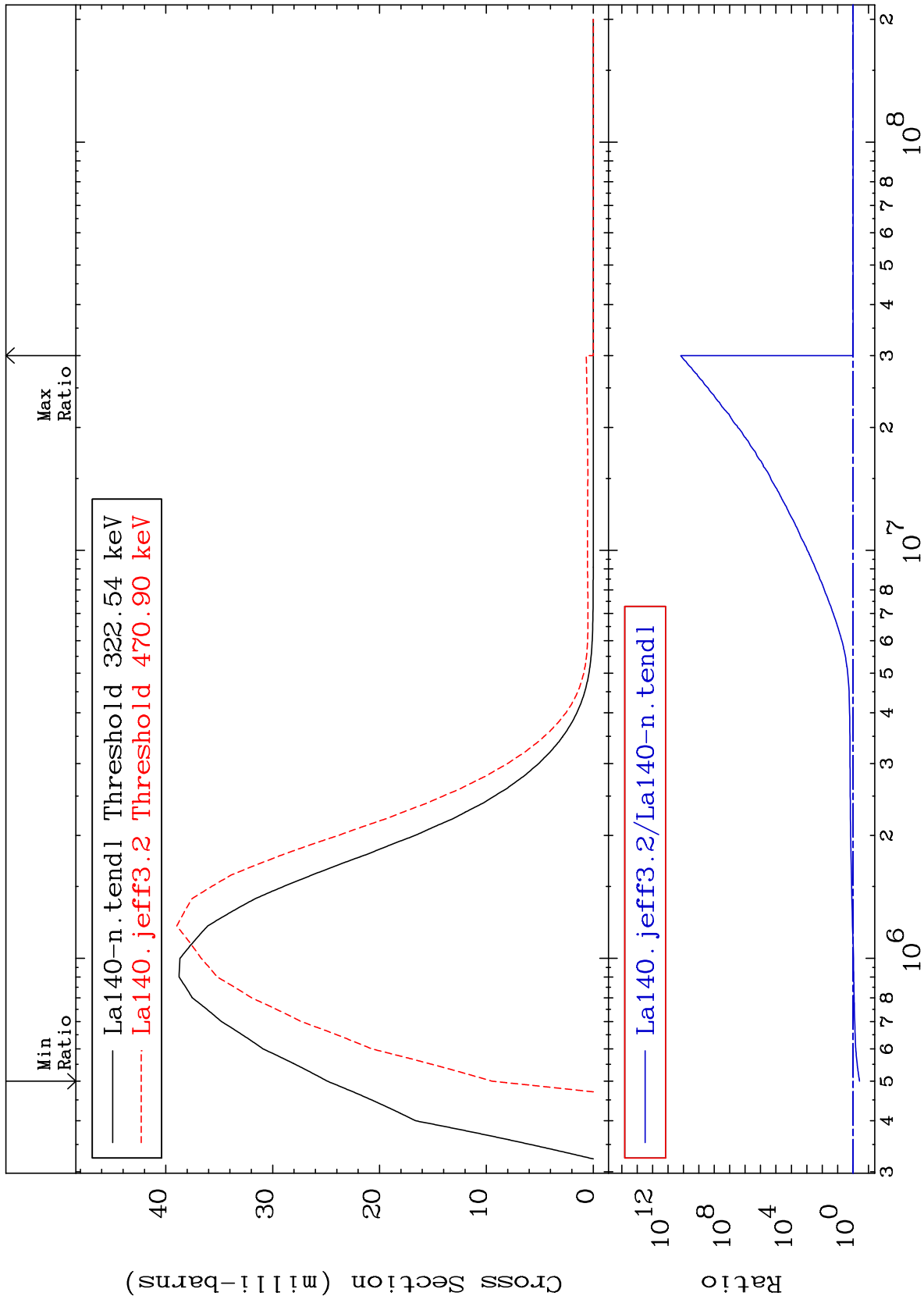
MAT 5731

318.2 keV (n,n') Level
Cross Section

57-La-140
-70.54 To 7.843 %



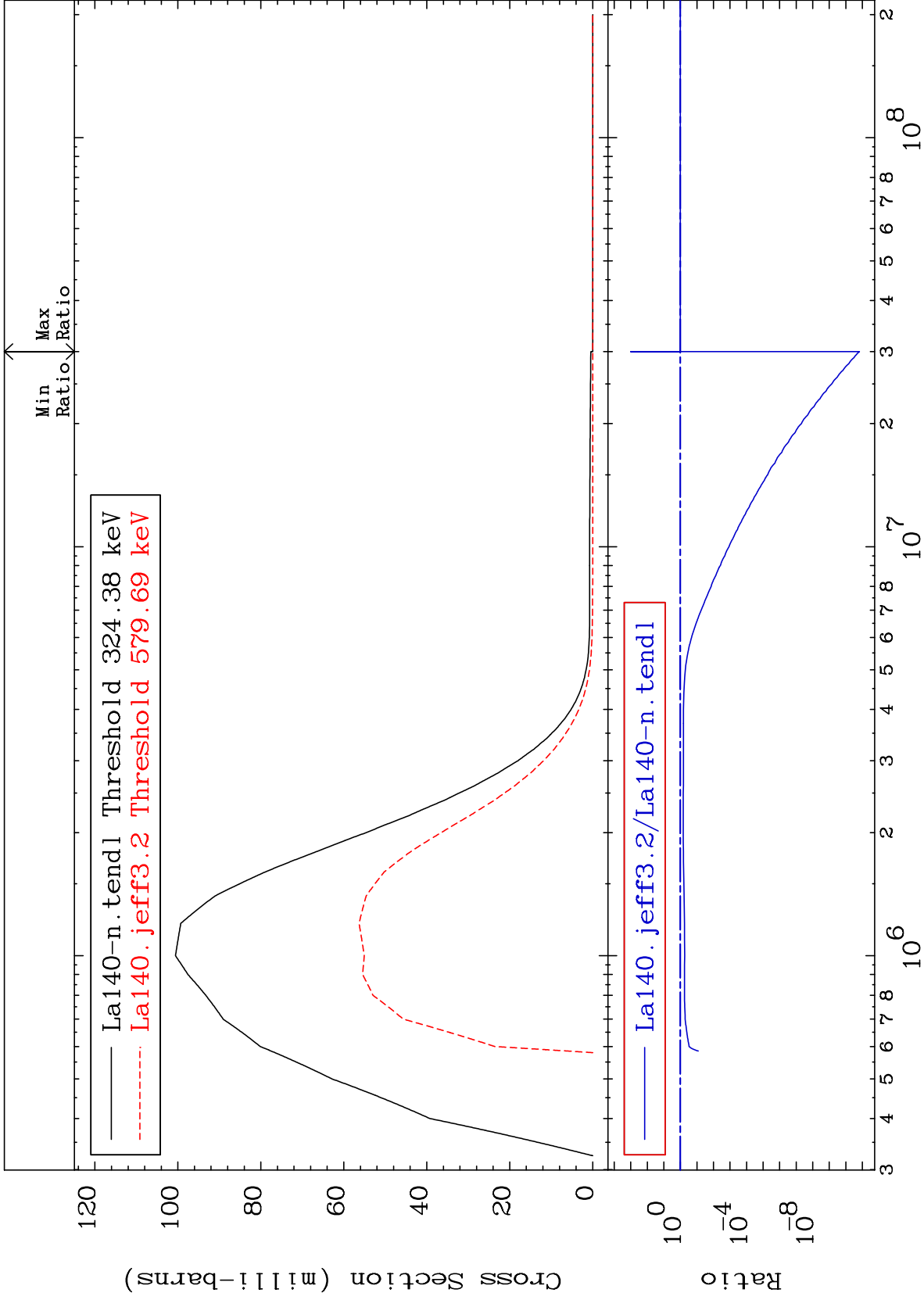
MAT 5731 320.2 keV (n,n') Level 57-La-140
 Cross Section -61.98 To 9999. %



MAT 5731

322.1 keV (n,n') Level
Cross Section

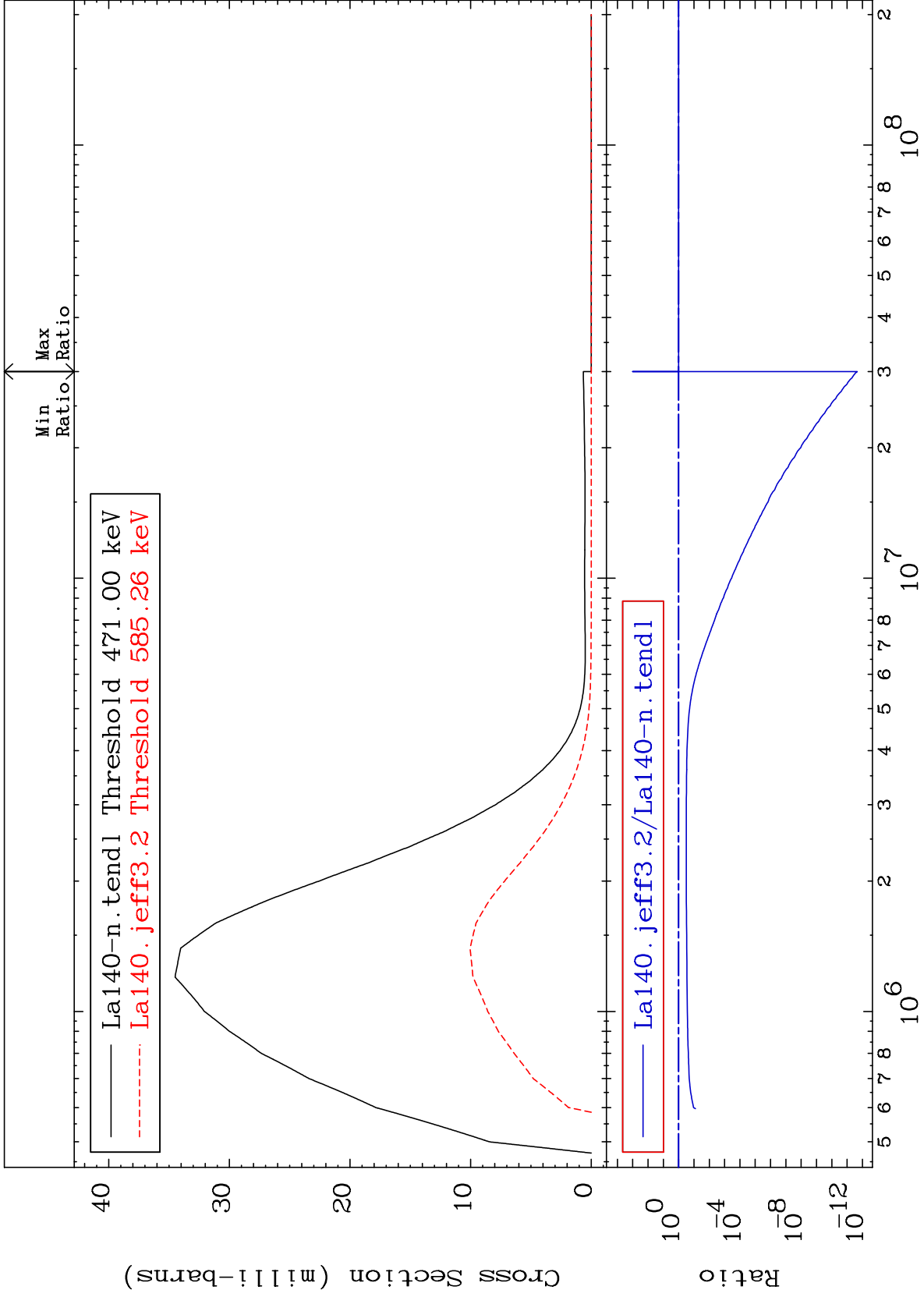
57-La-140
-100.0 To 0.000 %



MAT 5731

467.6 keV (n,n') Level
Cross Section

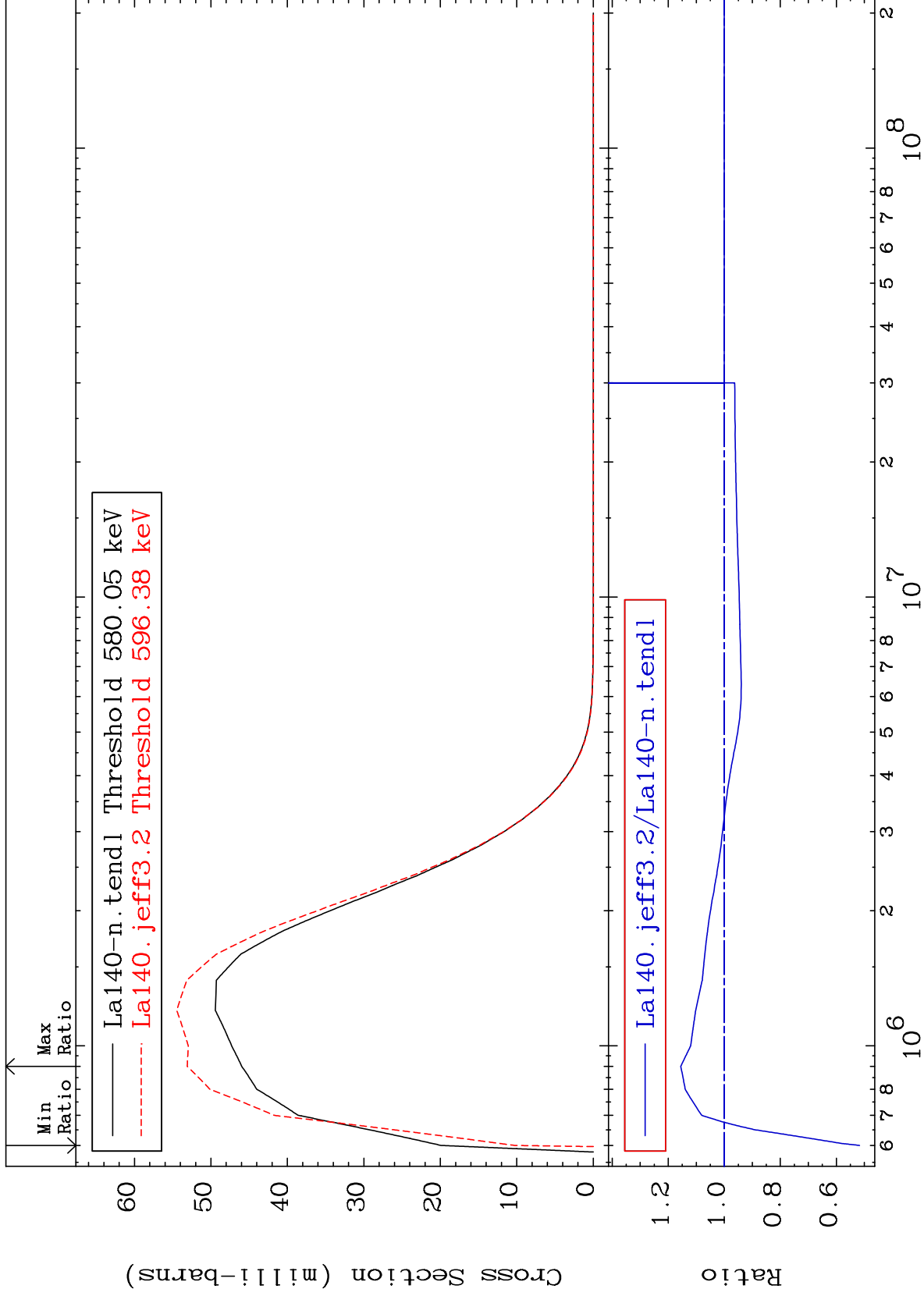
57-La-140
-100.0 To 0.000 %



MAT 5731

575.9 keV (n,n') Level
Cross Section

57-La-140
-48.26 To 15.52 %

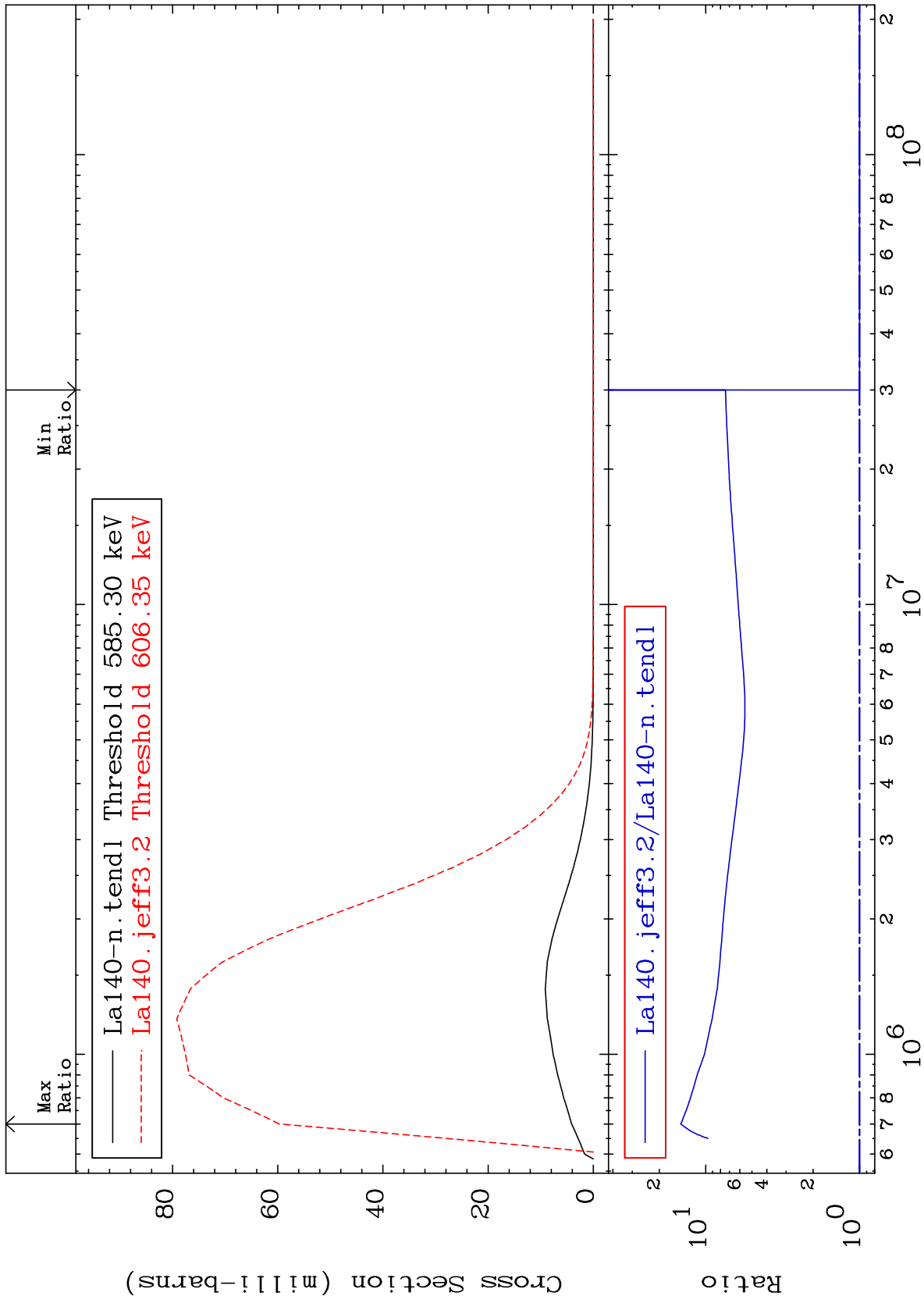


35

Incident Energy (eV)

57-La-140

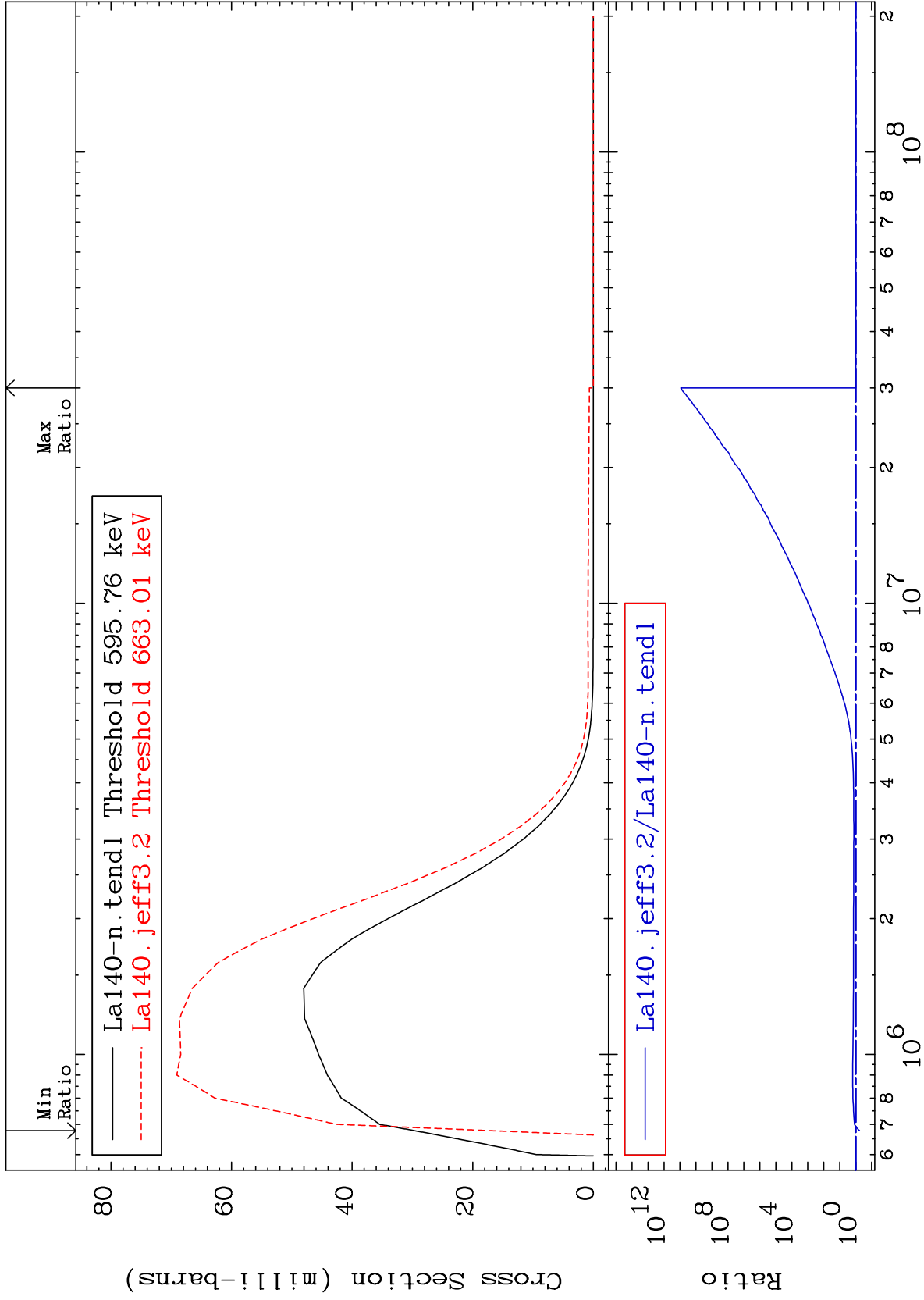
MAT 5731 581.1 keV (n,n') Level 57-La-140
 Cross Section 0.000 To 1350. %



MAT 5731

591.5 keV (n,n') Level
Cross Section

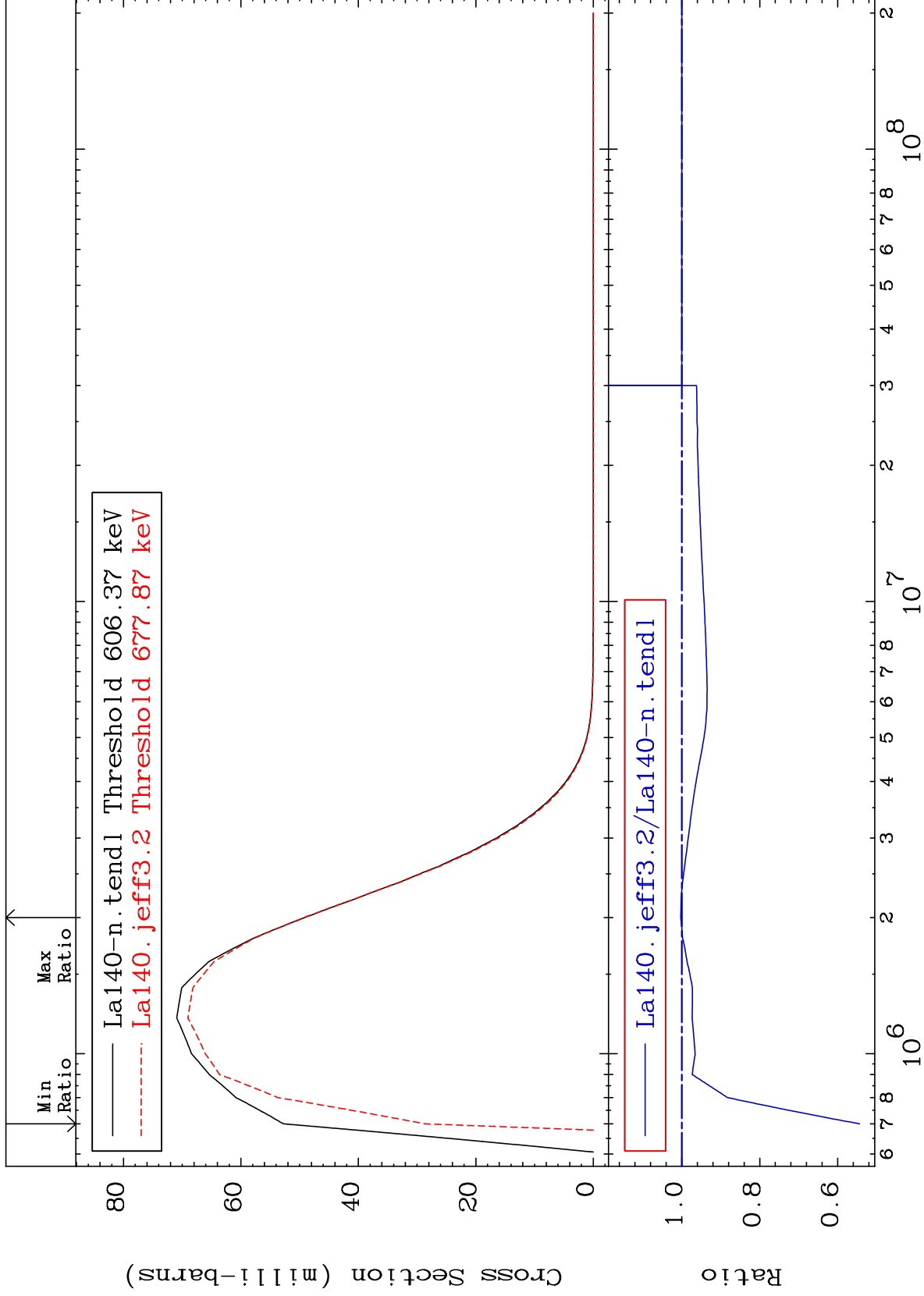
57-La-140
-42.28 To 9999. %



MAT 5731

602.0 keV (n,n') Level
Cross Section

57-La-140
-45.59 To 0.249 %



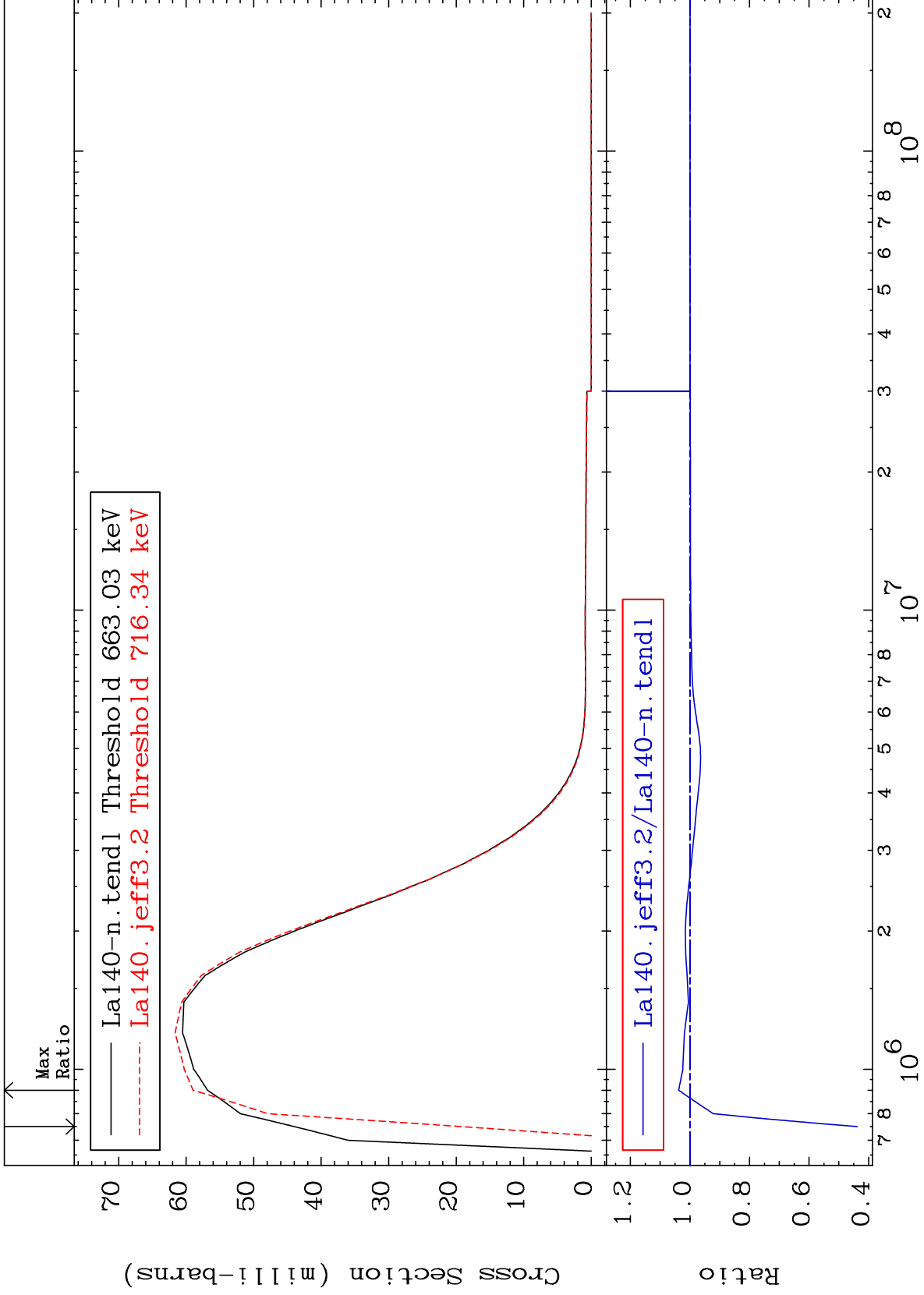
38

57-La-140

MAT 5731

658.3 keV (n,n') Level
Cross Section

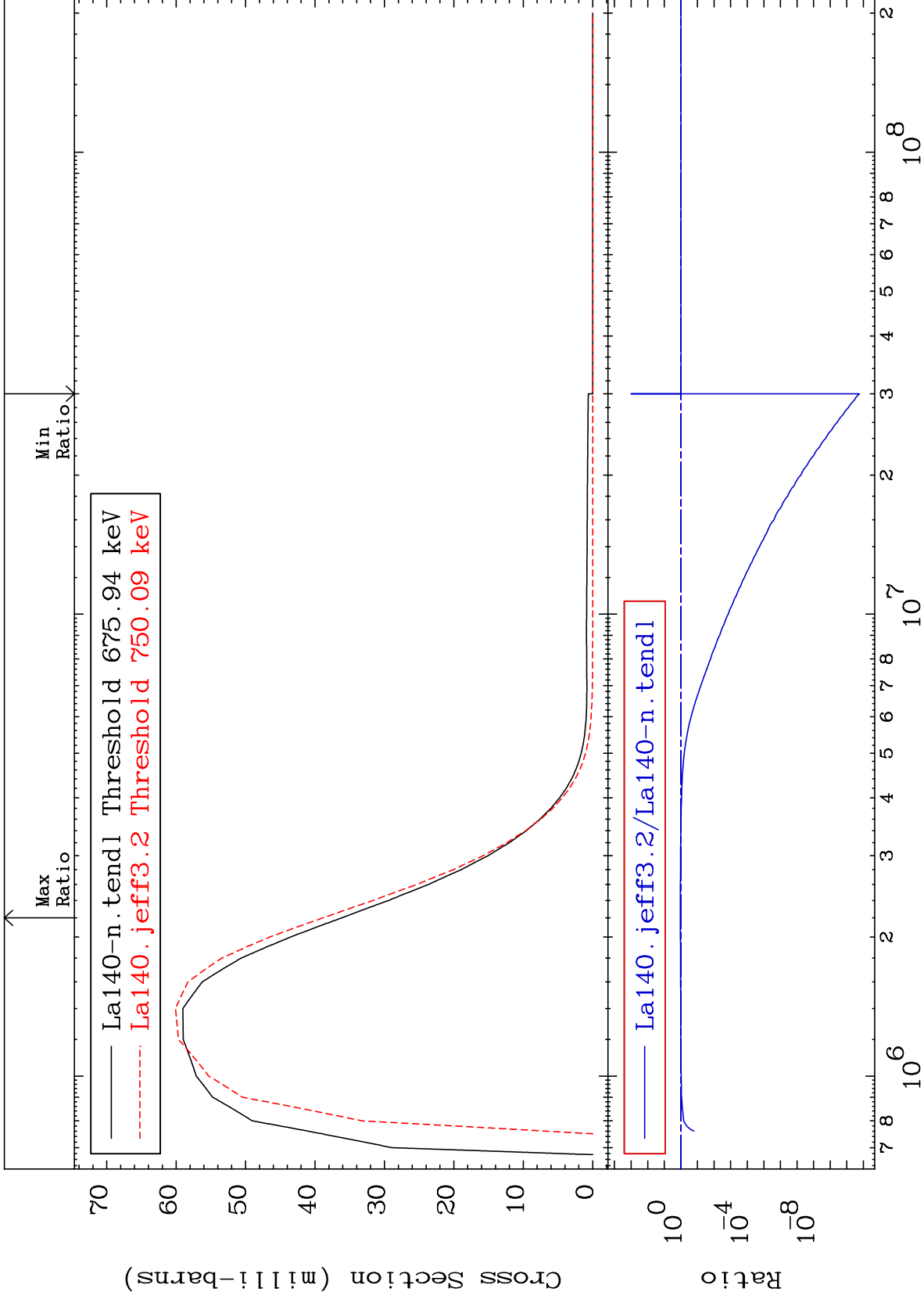
57-La-140
-56.18 To 3.798 %



MAT 5731

671.1 keV (n,n') Level
Cross Section

57-La-140
-100.0 To 7.521 %



40

Incident Energy (eV)

57-La-140

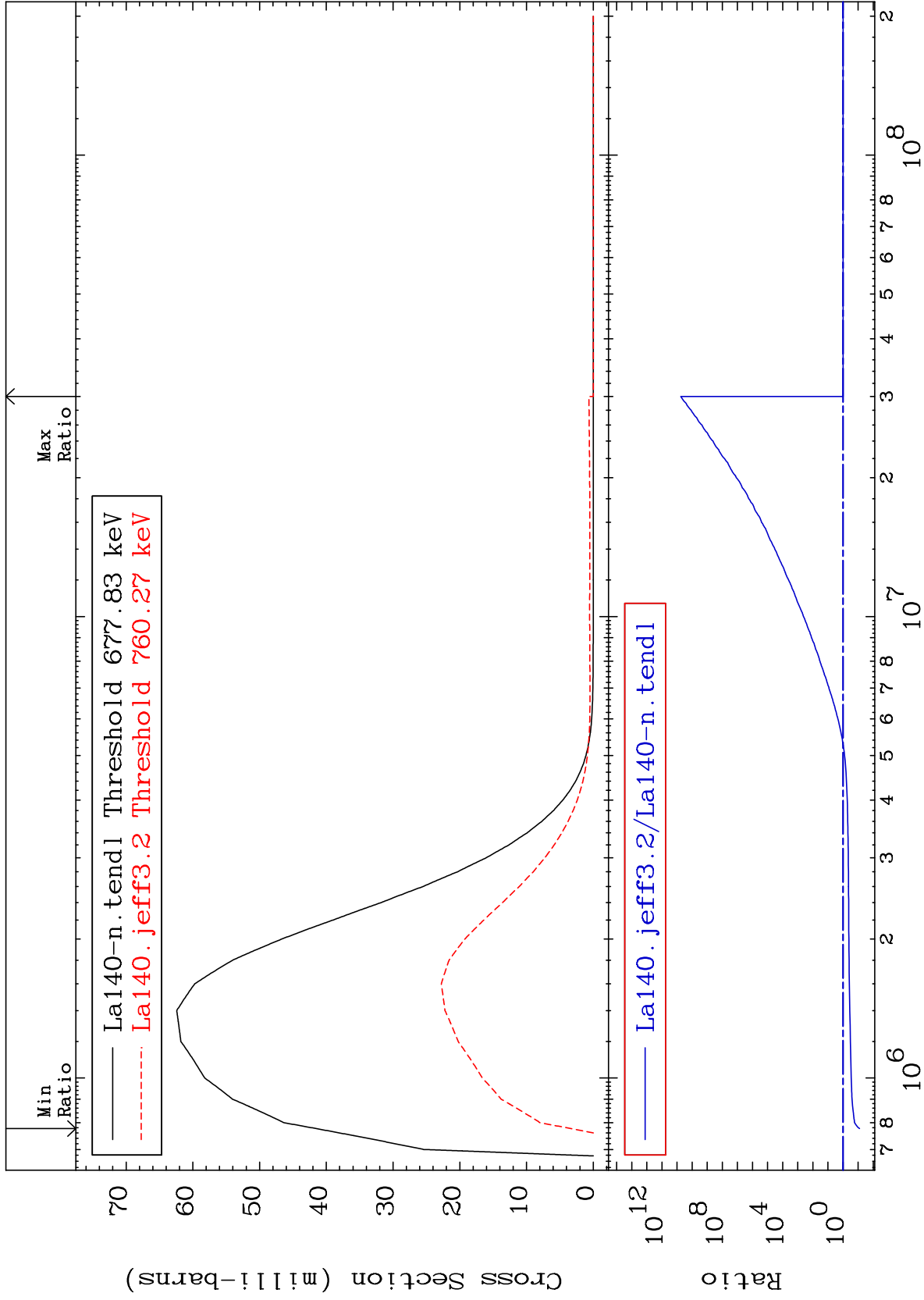
MAT 5731

673.0 keV (n,n') Level

57-La-140

-91.92 To 9999. %

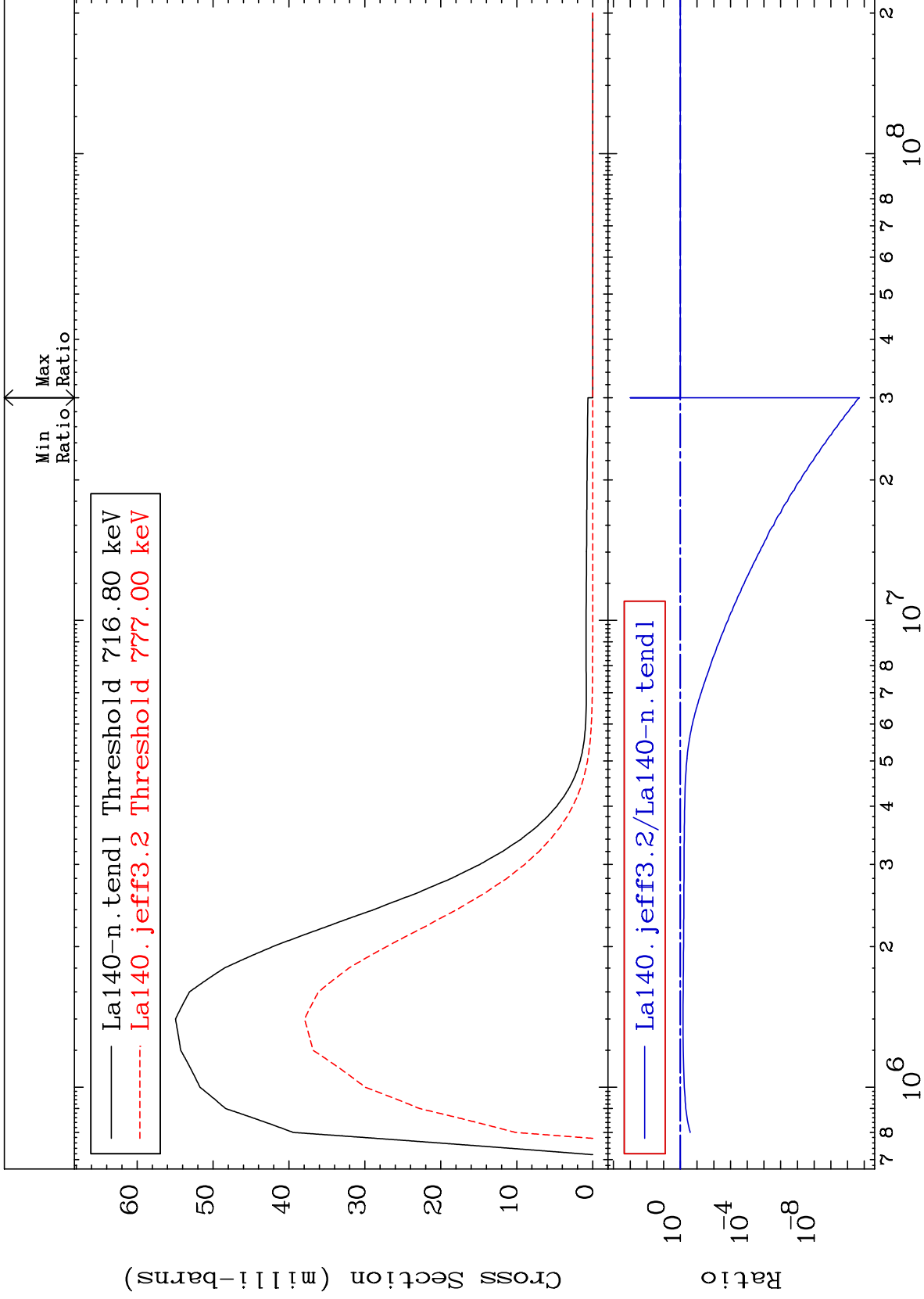
Cross Section



MAT 5731

711.7 keV (n,n') Level
Cross Section

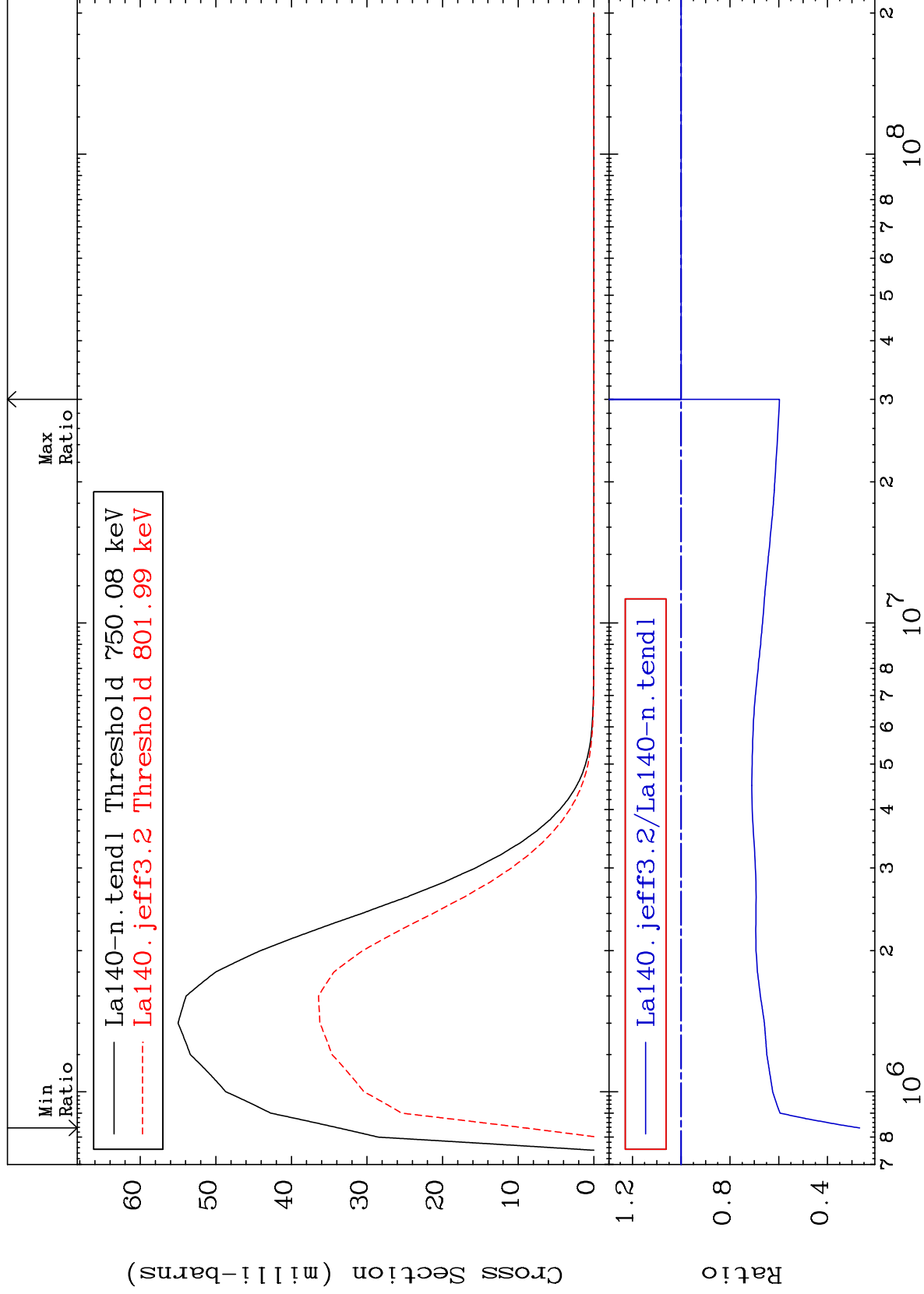
57-La-140
-100.0 To 0.000 %



MAT 5731

744.7 keV (n,n') Level
Cross Section

57-La-140
-73.19 To 0.000 %

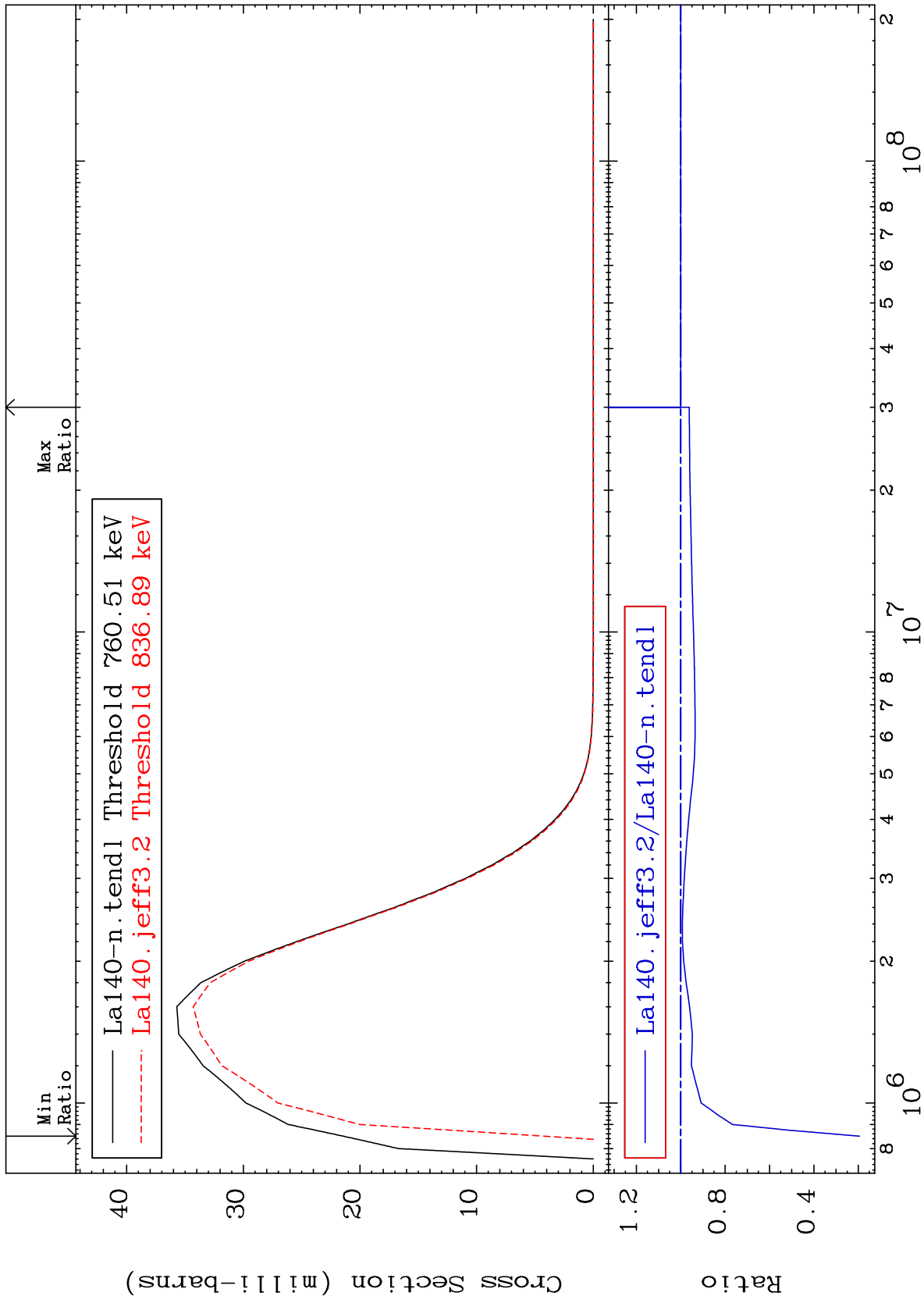


43

Incident Energy (eV)

57-La-140

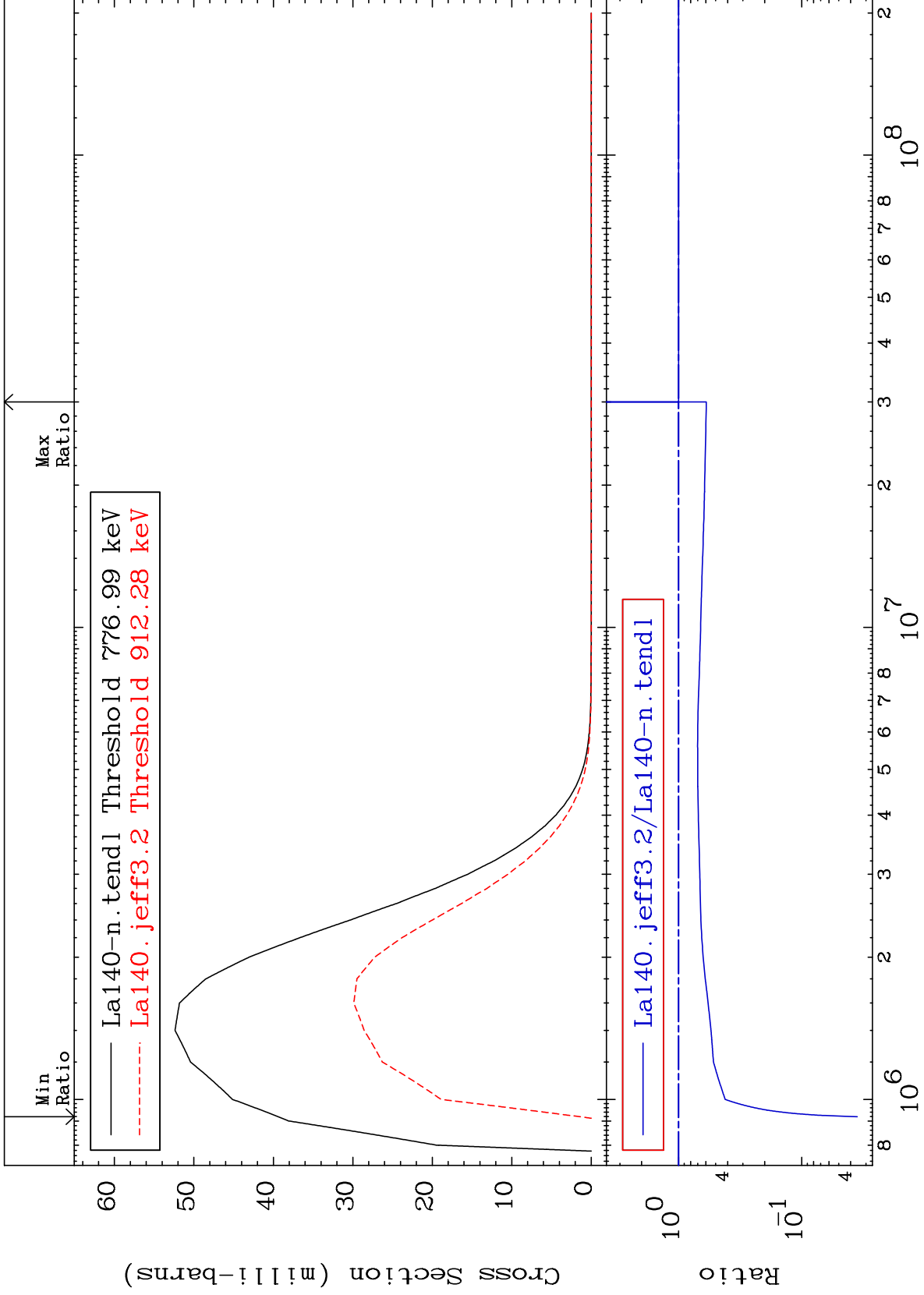
MAT 5731 755.1 keV (n,n') Level 57-La-140
Cross Section -80.56 To 0.000 %



MAT 5731

771.4 keV (n,n') Level
Cross Section

57-La-140
-96.47 To 0.000 %



45

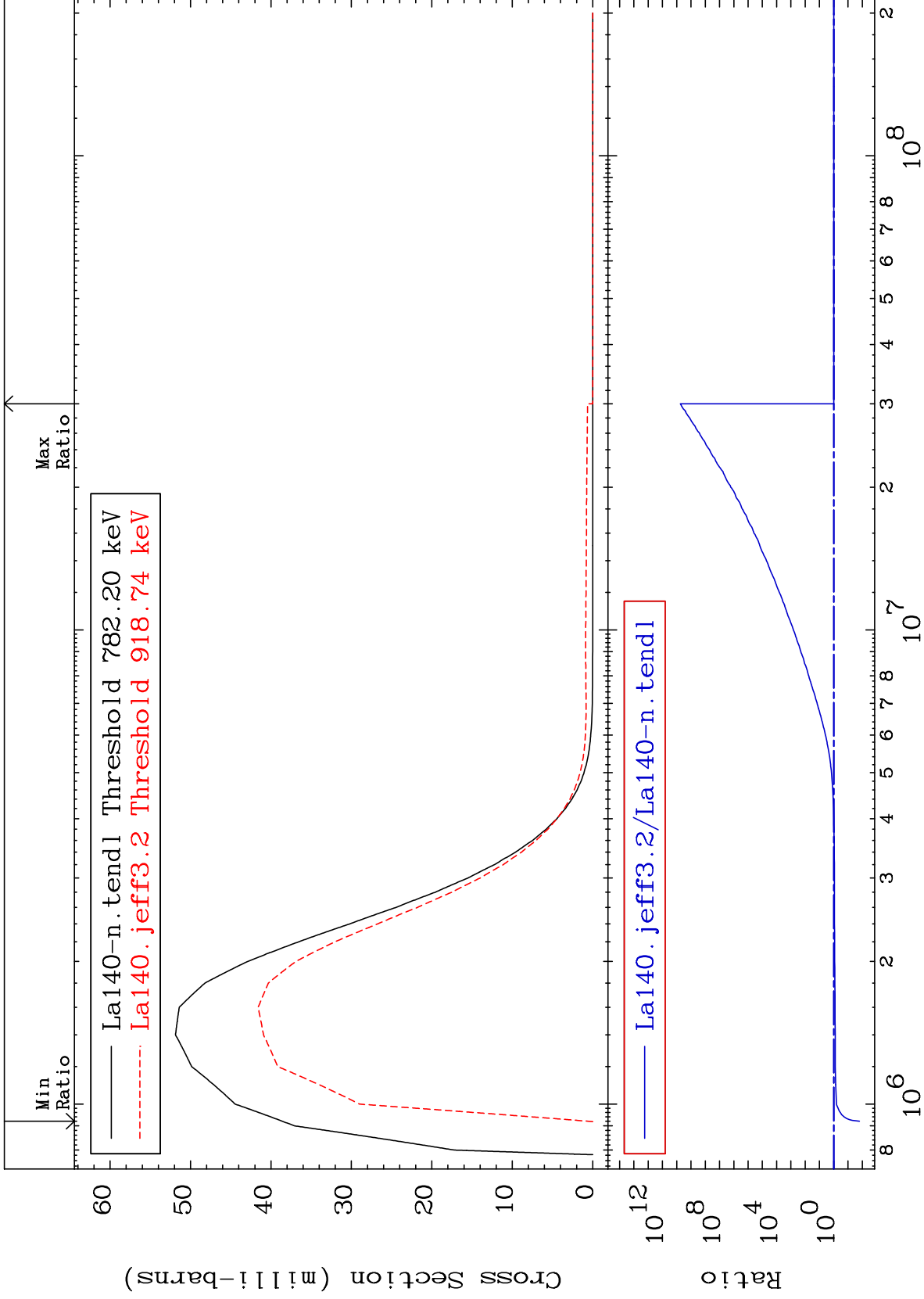
Incident Energy (eV)

57-La-140

MAT 5731

776.6 keV (n,n') Level
Cross Section

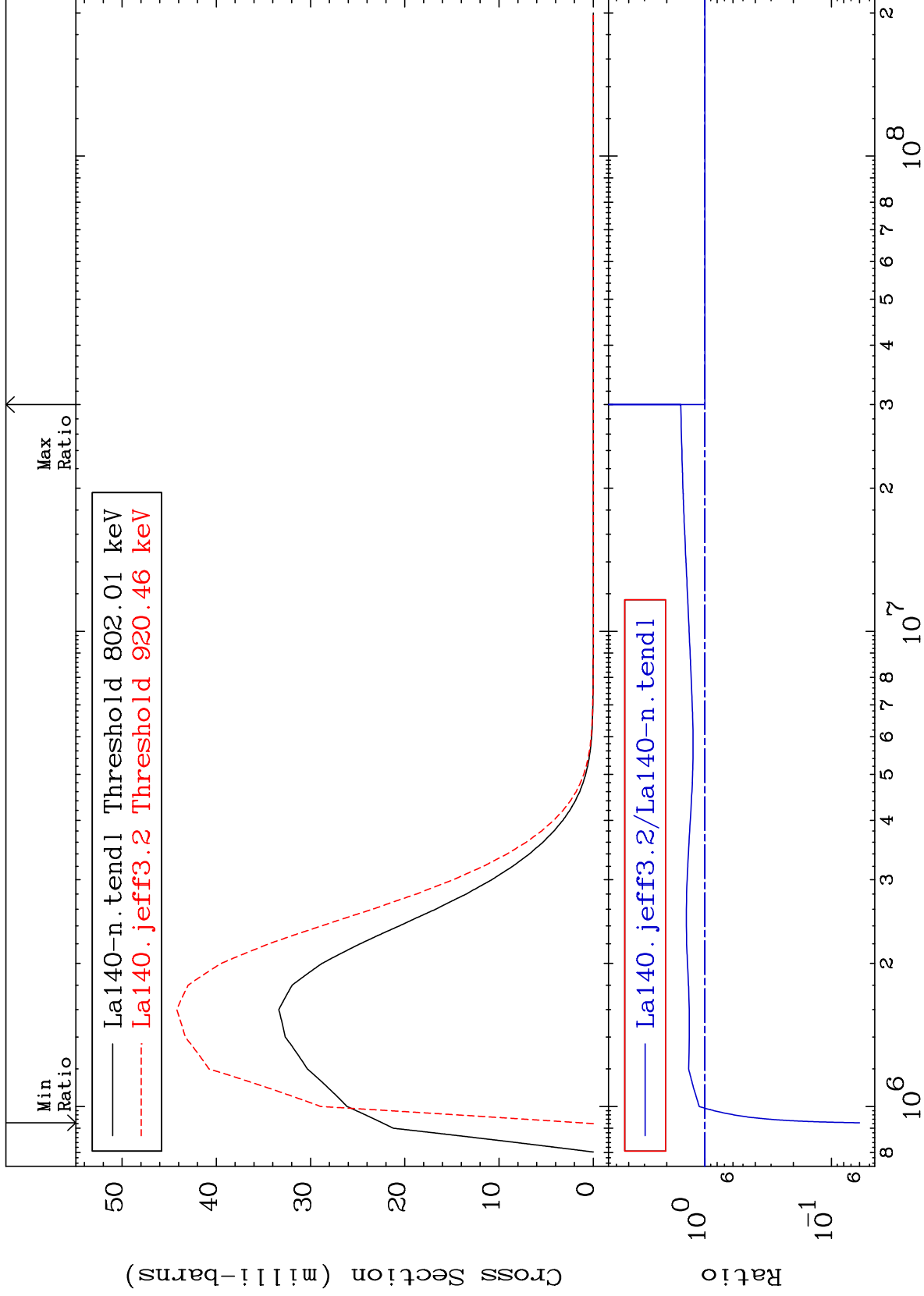
57-La-140
-98.41 To 9999. %



MAT 5731

796.3 keV (n,n') Level
Cross Section

57-La-140
-94.01 To 54.84 %



47

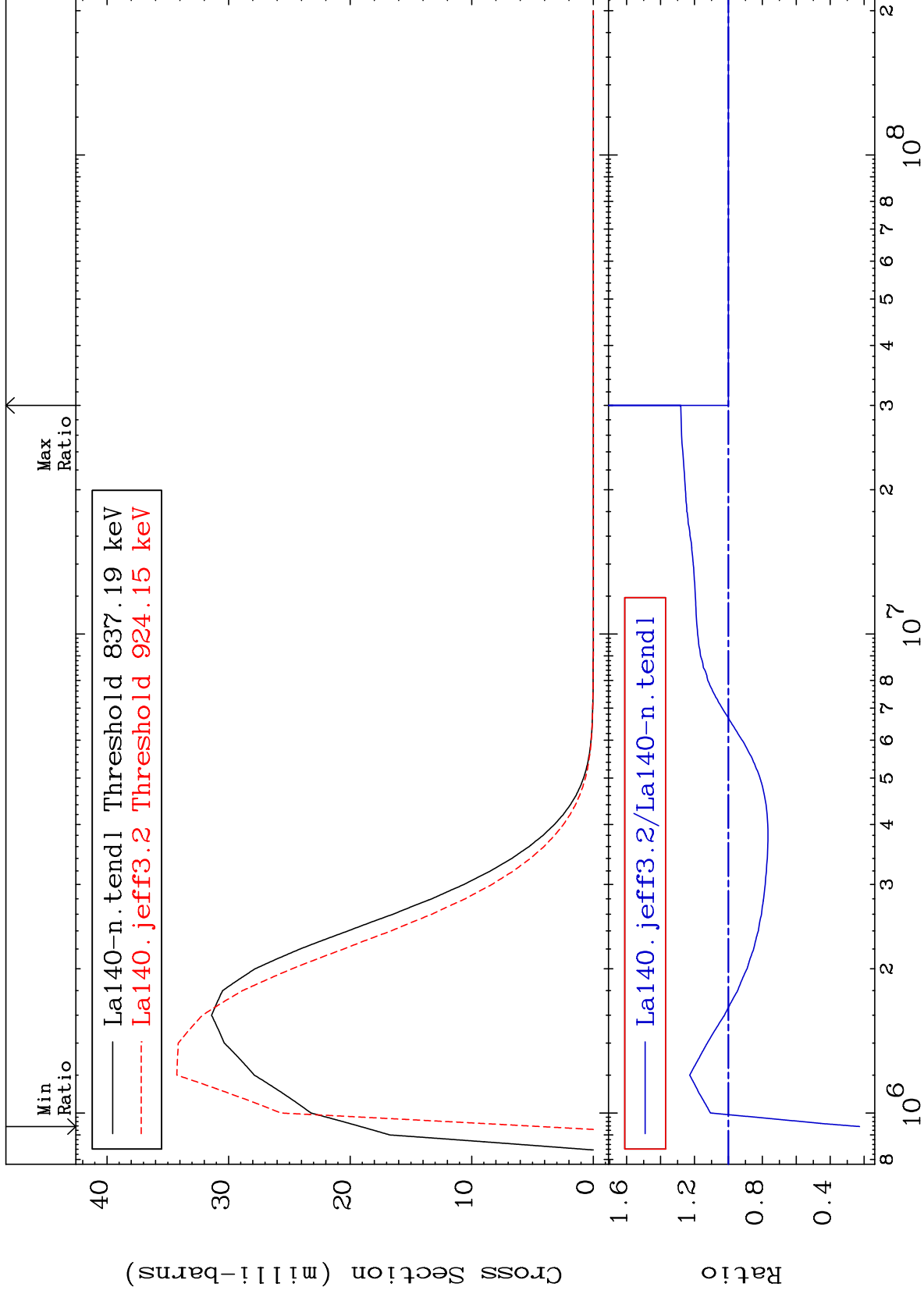
Incident Energy (eV)

57-La-140

MAT 5731

831.2 keV (n,n') Level
Cross Section

57-La-140
-77.25 To 28.11 %



48

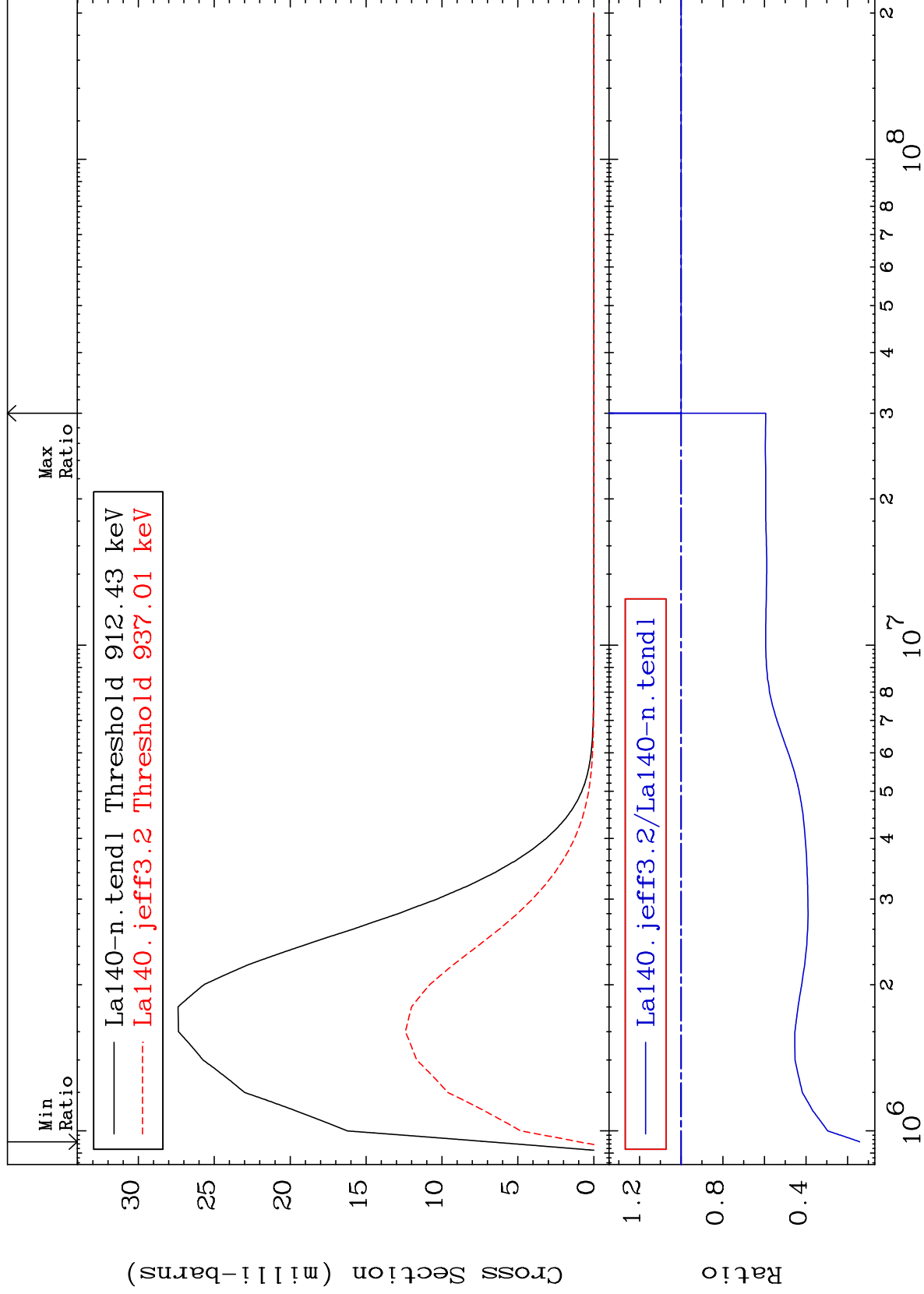
Incident Energy (eV)

57-La-140

MAT 5731

905.9 keV (n,n') Level
Cross Section

57-La-140
-85.76 To 0.000 %



49

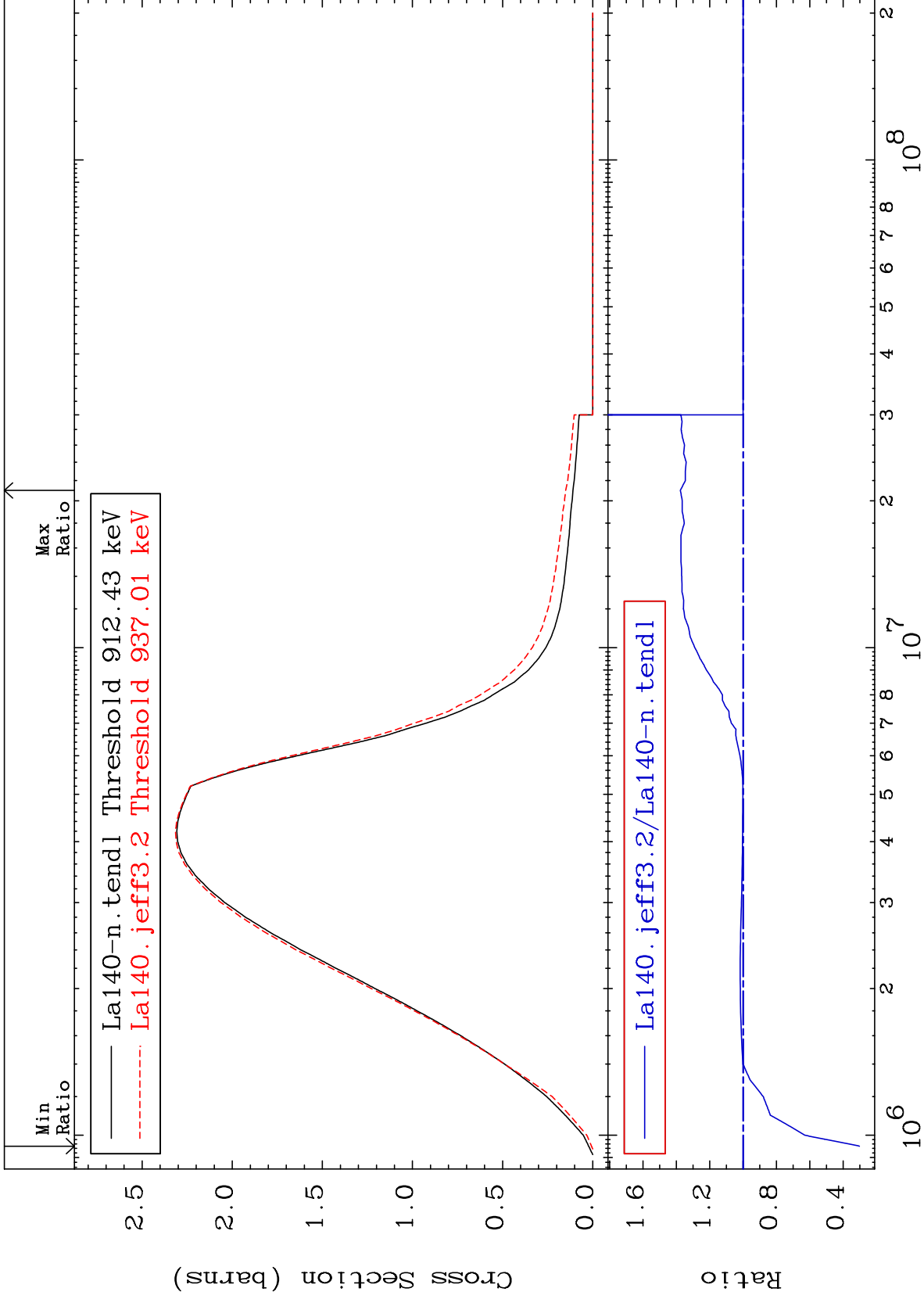
Incident Energy (eV)

57-La-140

MAT 5731

(n, n') Continuum
Cross Section

57-La-140
-69.70 To 37.66 %



50

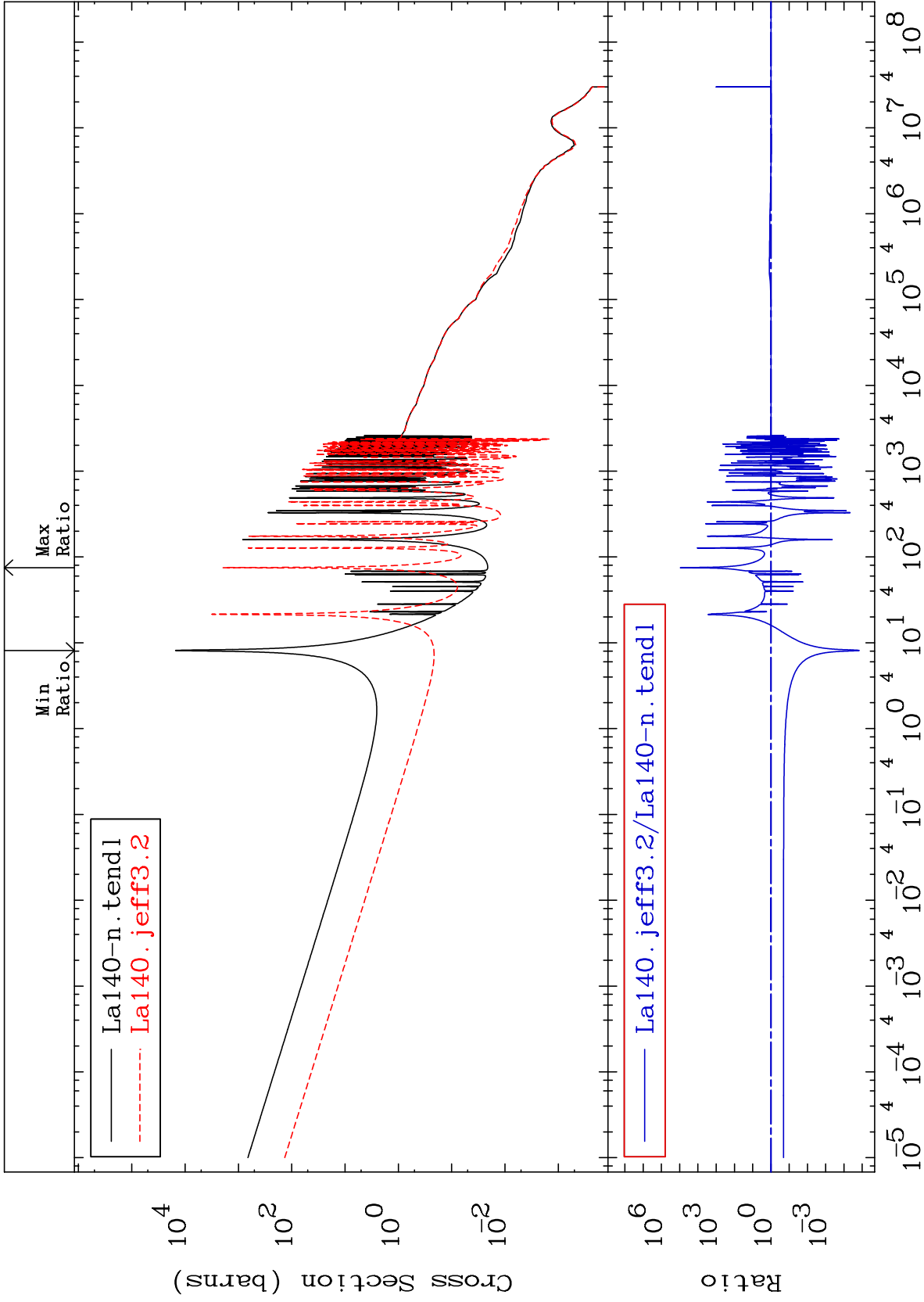
Incident Energy (eV)

57-La-140

MAT 5731

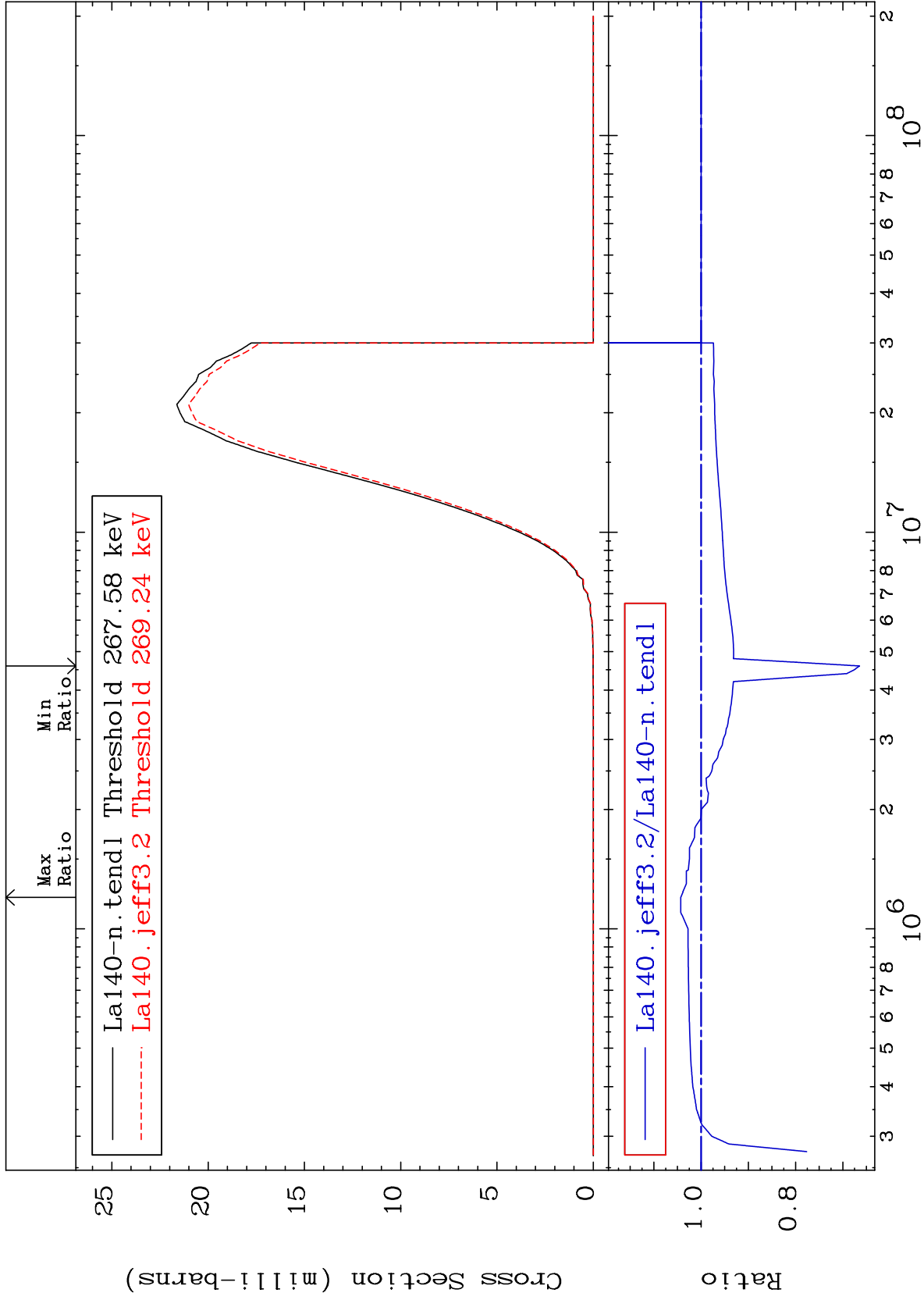
57-La-140
-100.0 To 9999. %

(n, γ)
Cross Section



Cross Section

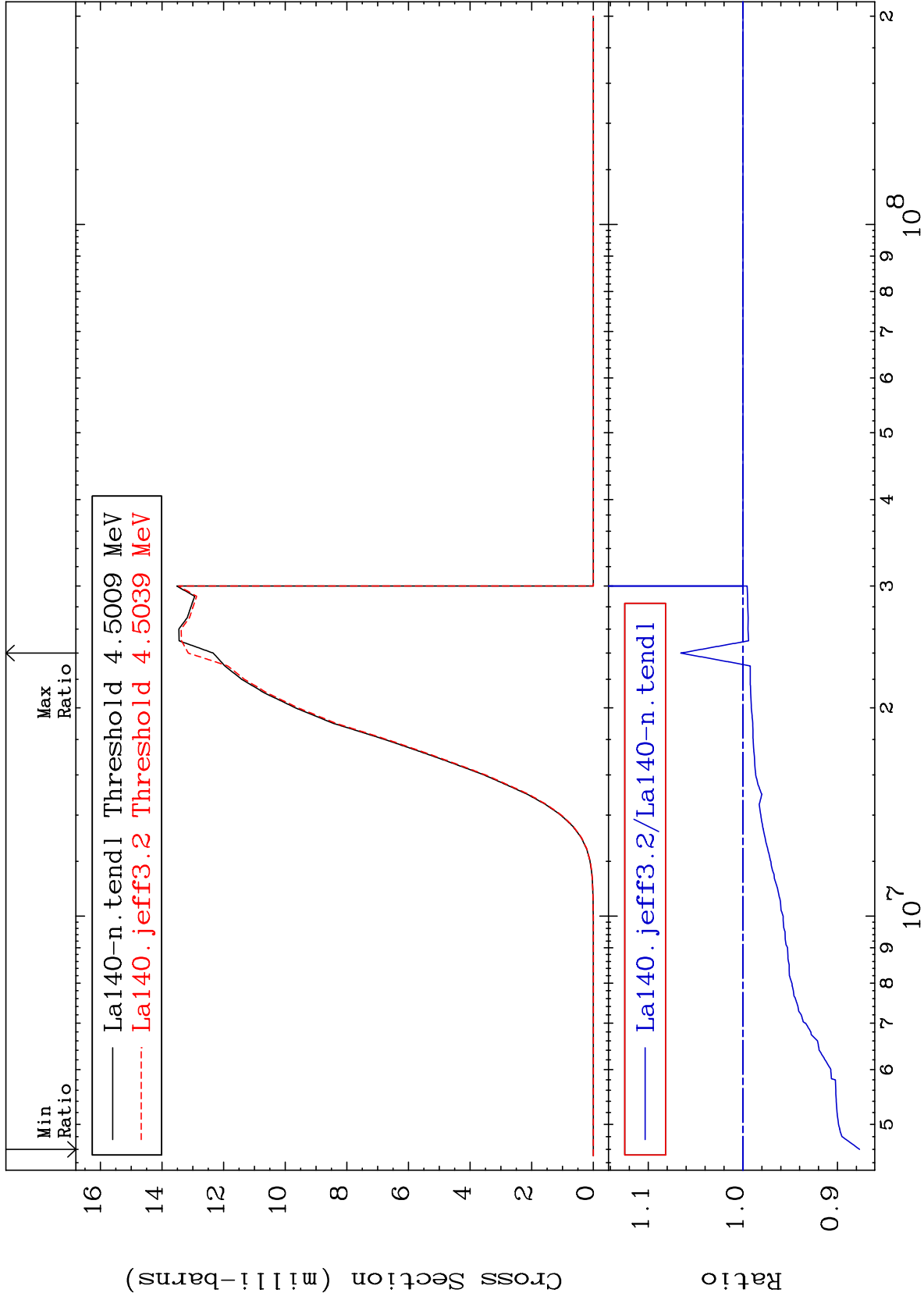
-33.54 To 4.302 %



MAT 5731

57-La-140

(n, d)
Cross Section
-12.33 To 6.568 %



53

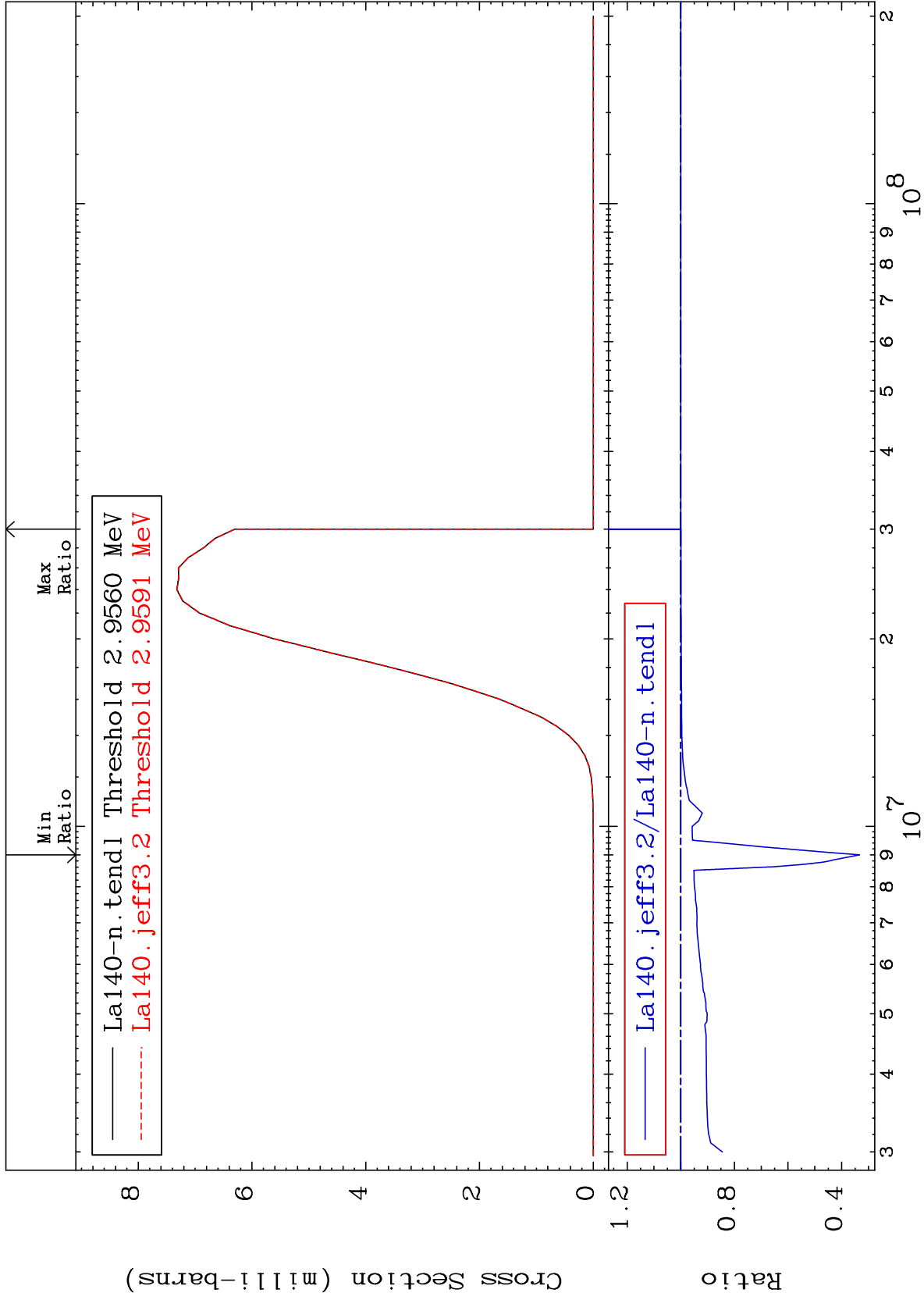
Incident Energy (eV)

57-La-140

MAT 5731

57-La-140

(n, t)
Cross Section
-66.67 To 0.000 %



54

Incident Energy (eV)

57-La-140

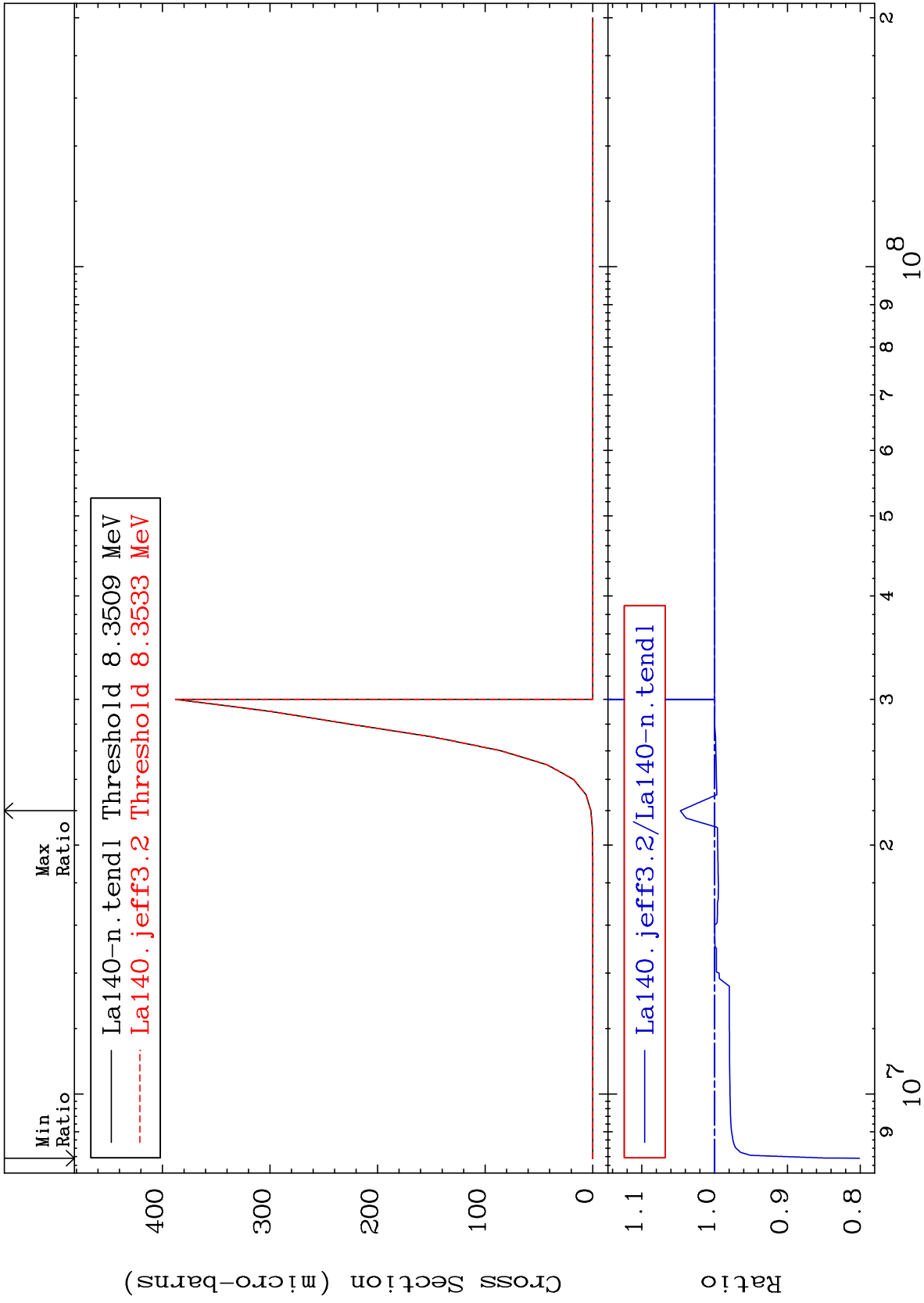
MAT 5731

(n, He-3)

57-La-140

Cross Section

-19.89 To 4.693 %



55

Incident Energy (eV)

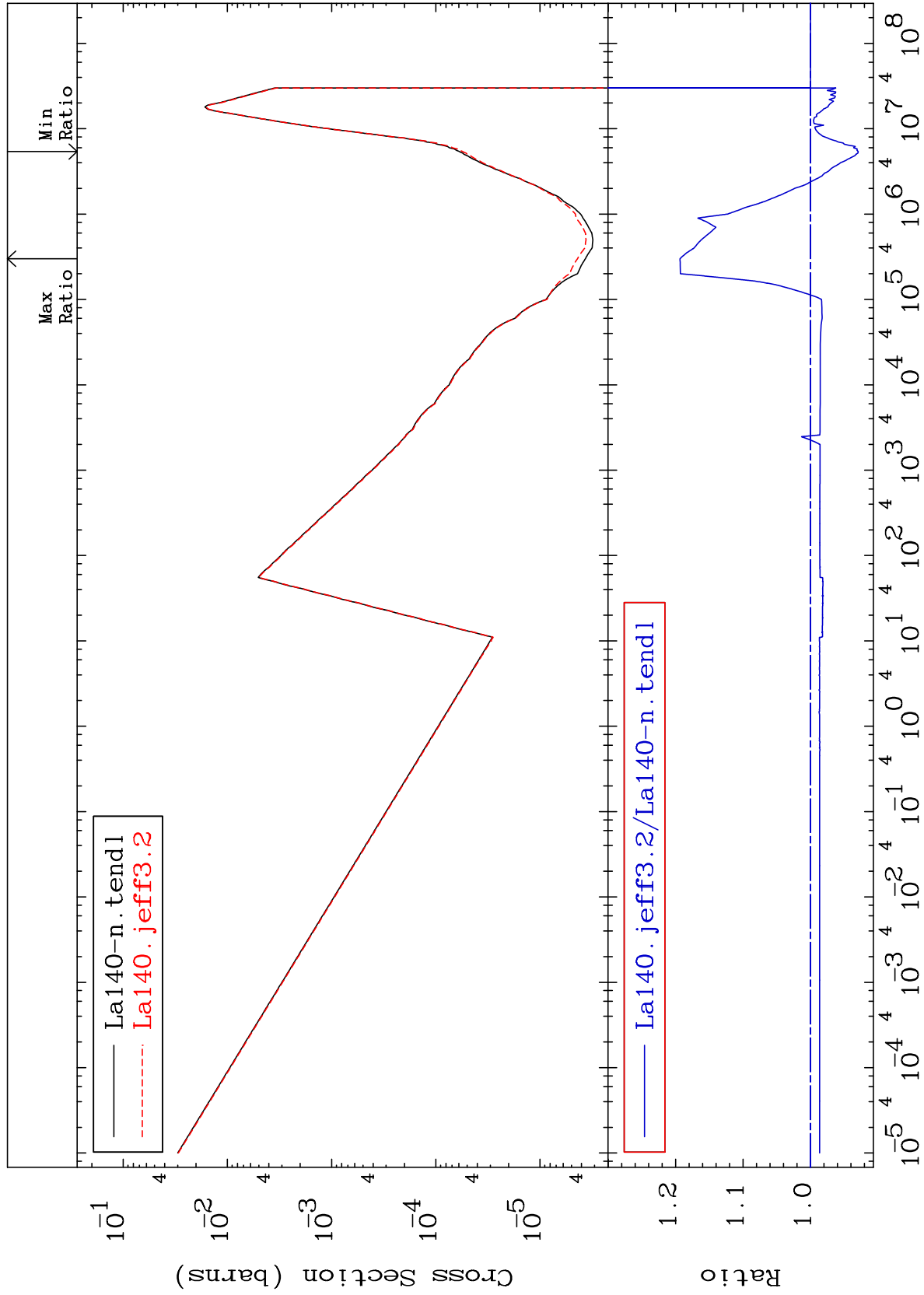
57-La-140

MAT 5731

(n, α)
Cross Section

57-La-140

-7.084 To 19.34 %



56

Incident Energy (eV)

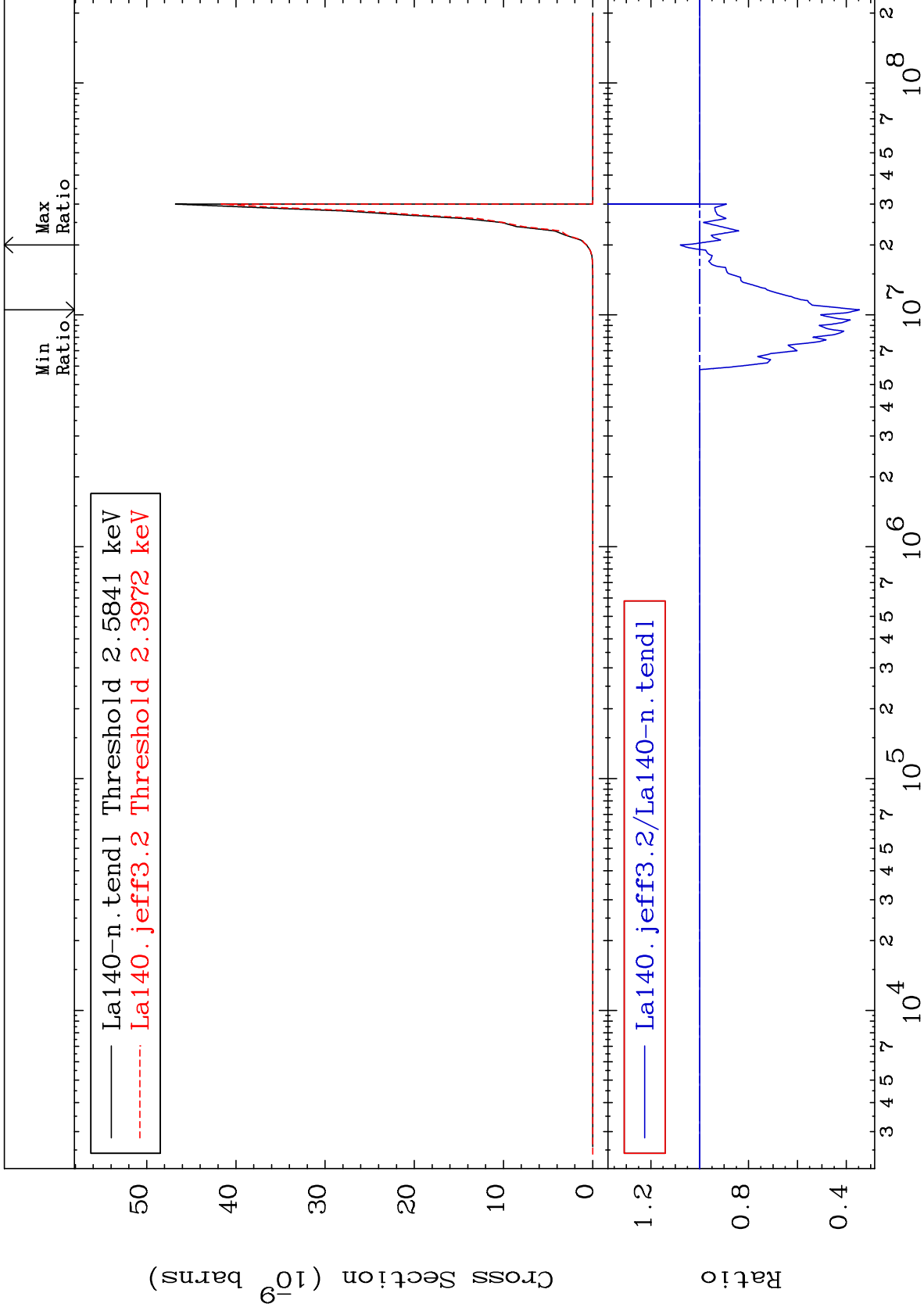
57-La-140

MAT 5731

(n,2α)

Cross Section

57-La-140
-65.36 To 7.914 %



57

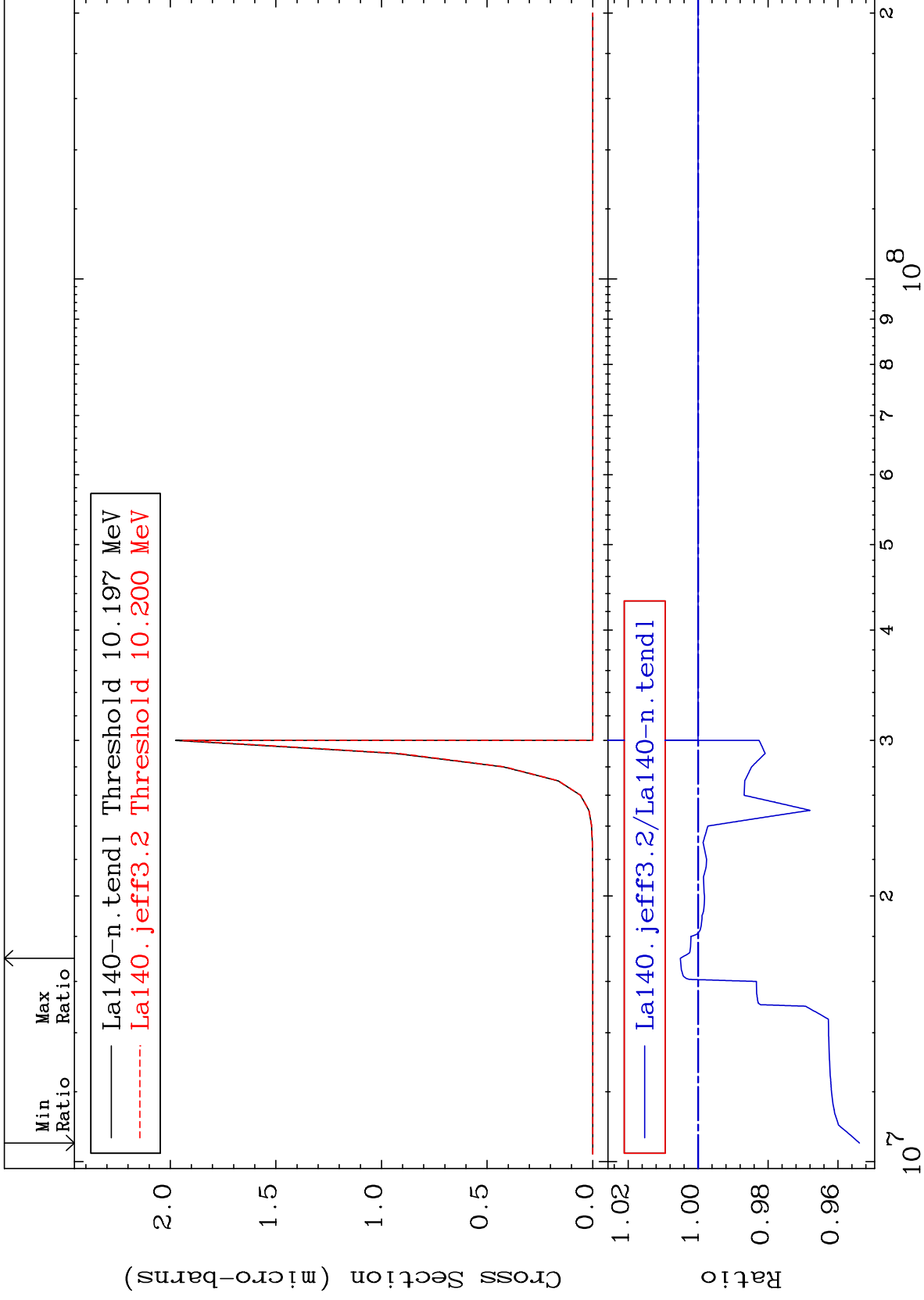
Incident Energy (eV)

57-La-140

MAT 5731

(n,2p)
Cross Section

57-La-140
-4.616 To 0.508 %



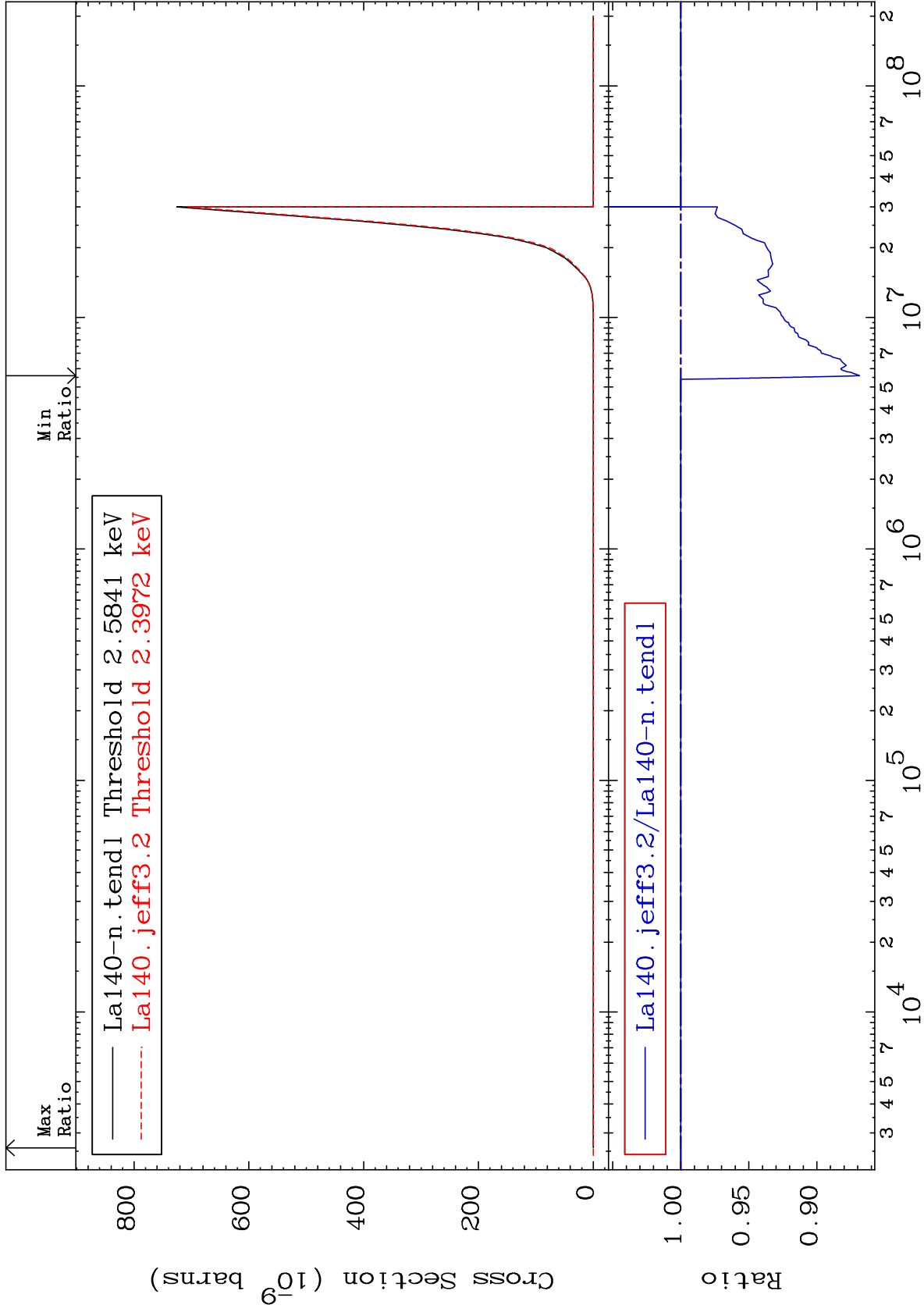
58

Incident Energy (eV)

57-La-140

Cross Section

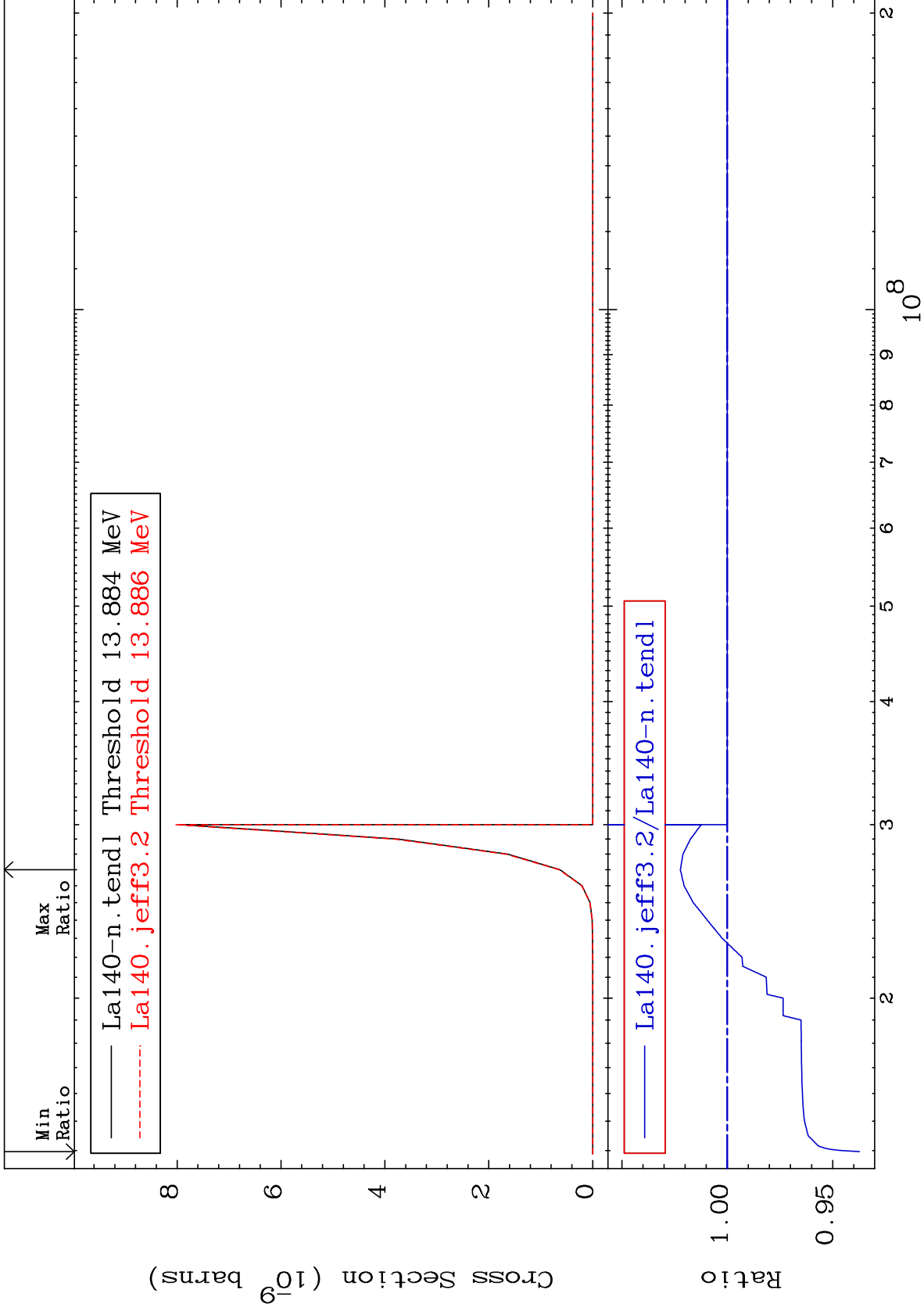
-13.13 To 0.000 %



MAT 5731

(n,p) d
Cross Section

57-La-140
-6.272 To 2.230 %



60

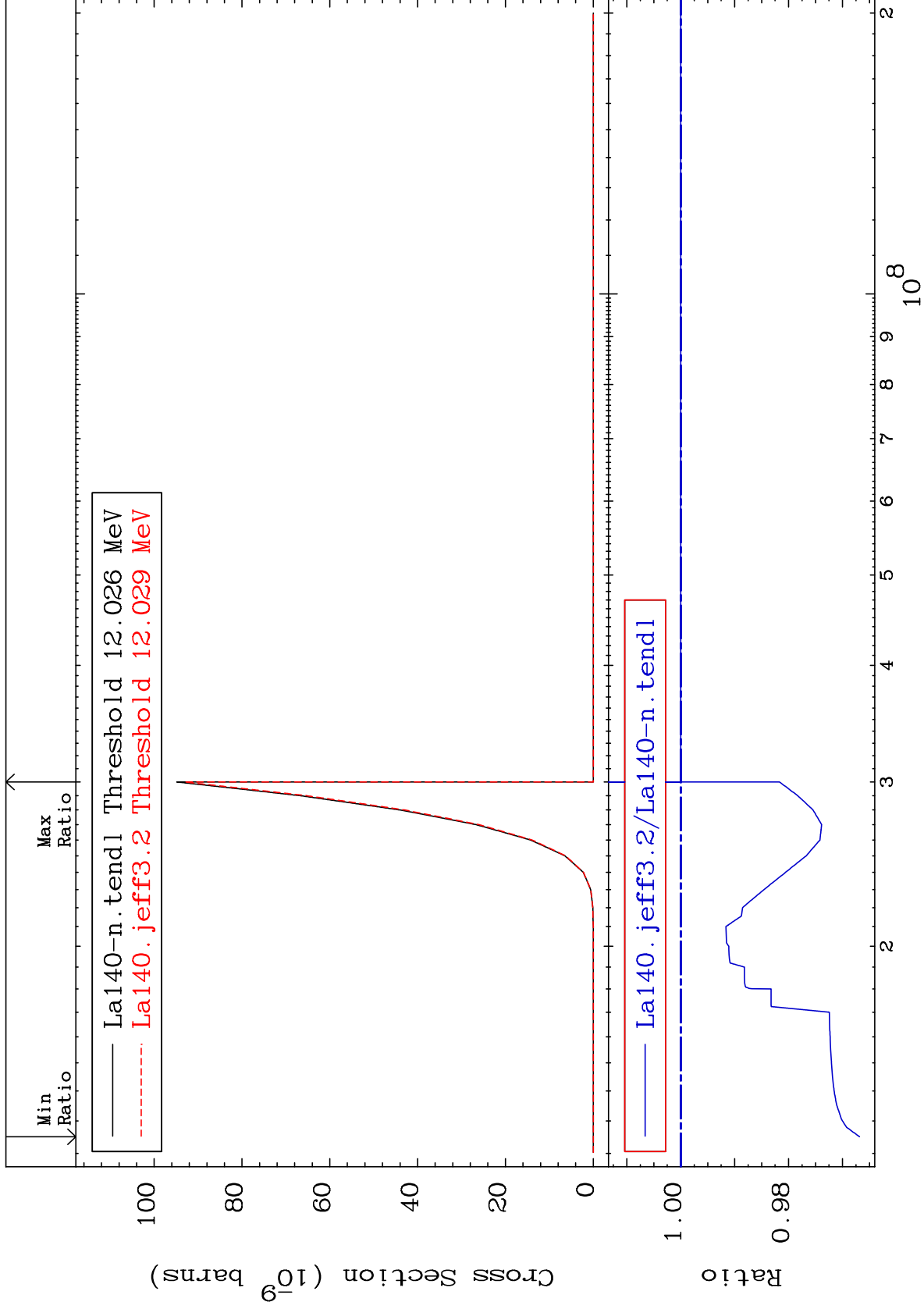
Incident Energy (eV)

57-La-140

MAT 5731

(n,p) t
Cross Section

57-La-140
-3.316 To 0.000 %



61

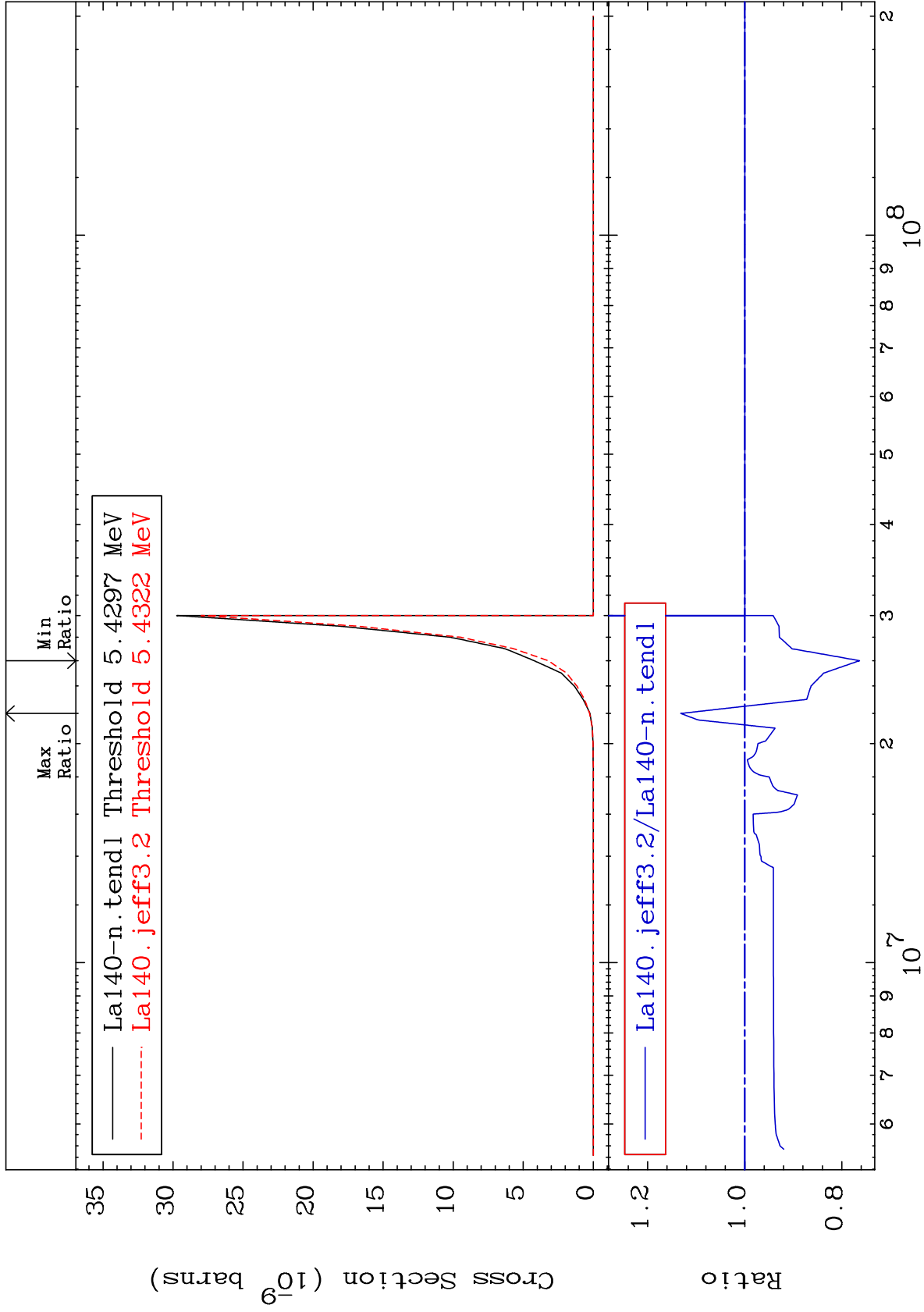
Incident Energy (eV)

57-La-140

MAT 5731

57-La-140
-23.64 To 13.18 %

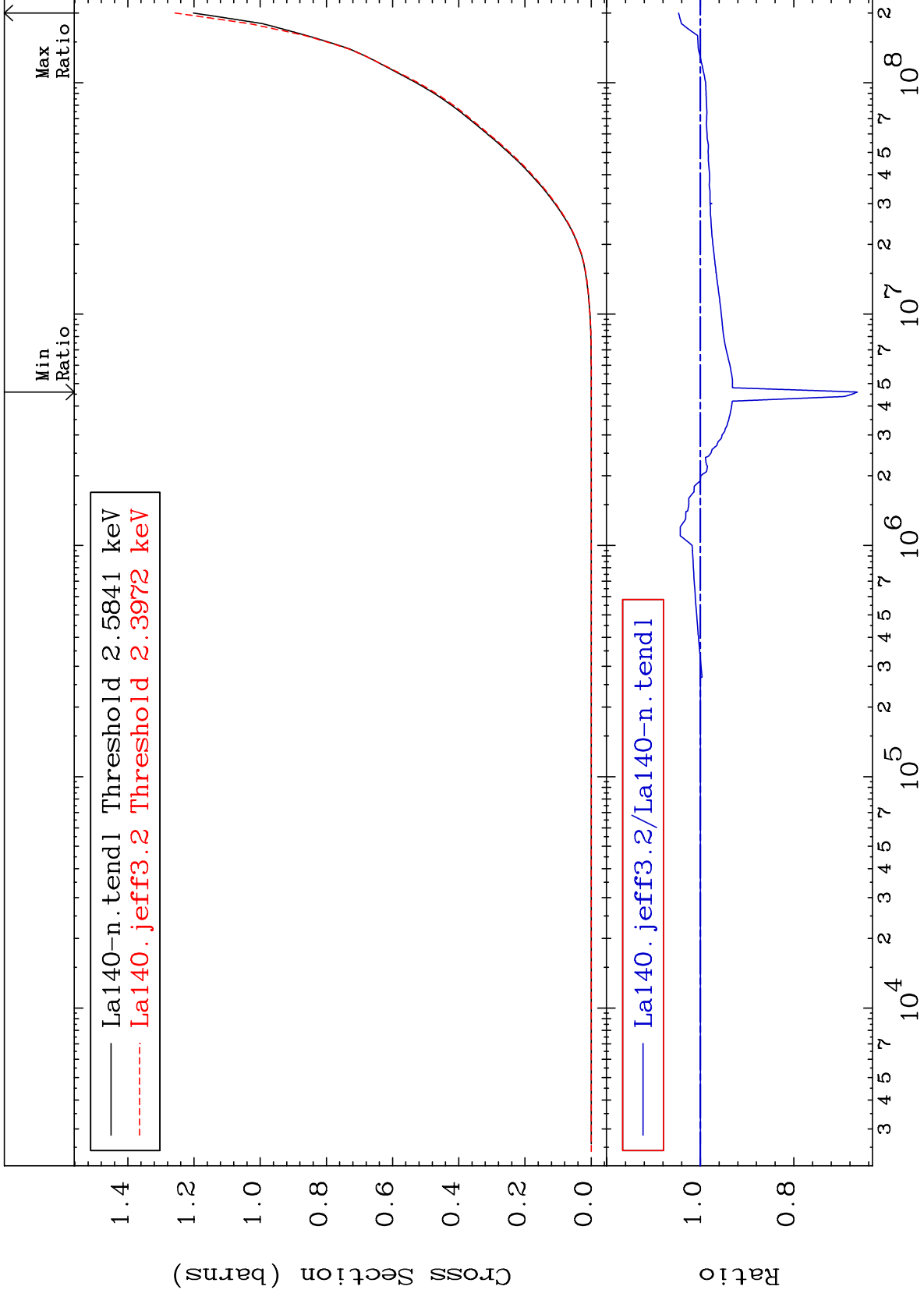
(n, d) α
Cross Section



62

Incident Energy (eV)

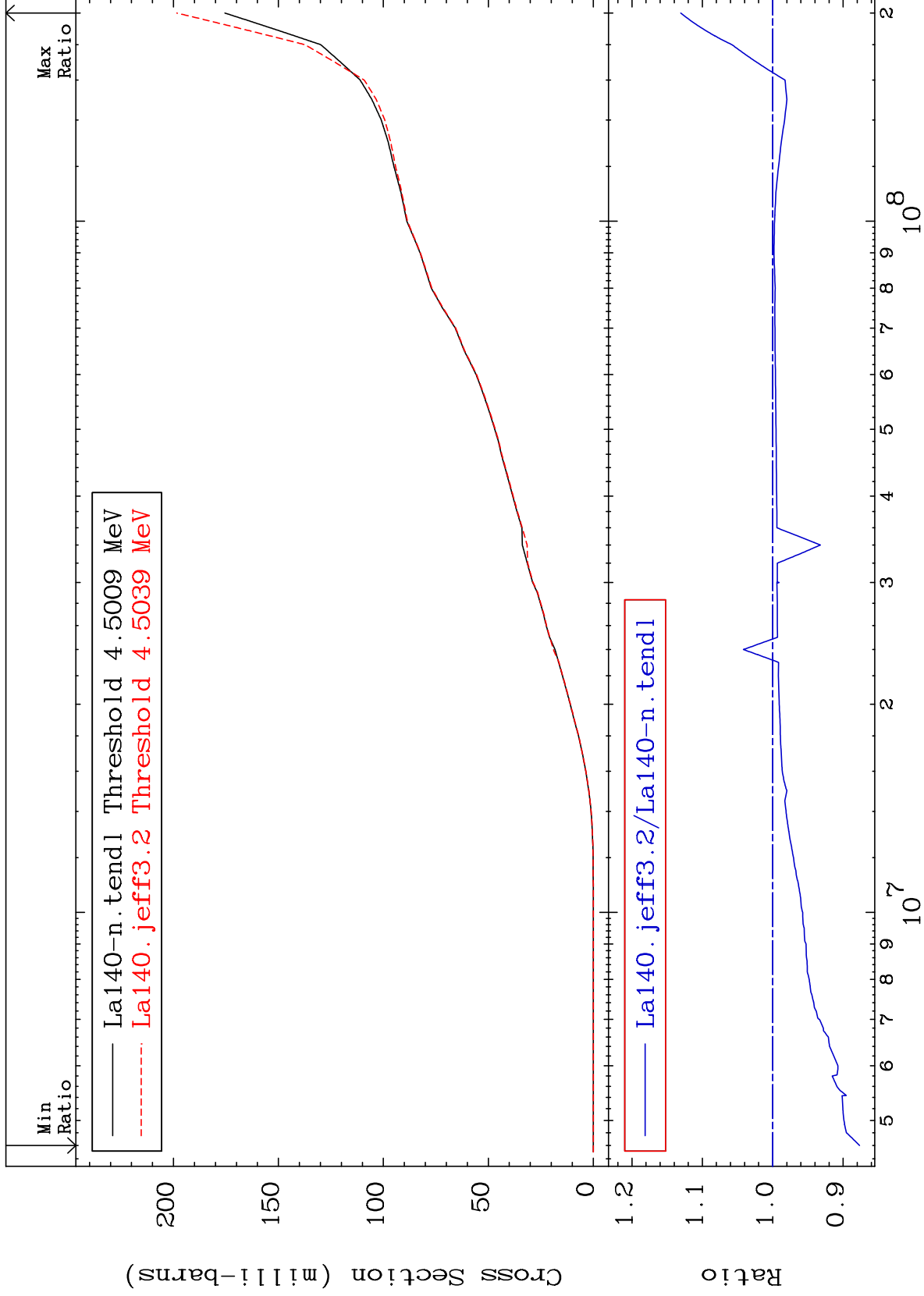
57-La-140



MAT 5731

Deuterium Production
Cross Section

57-La-140
-12.33 To 13.06 %



64

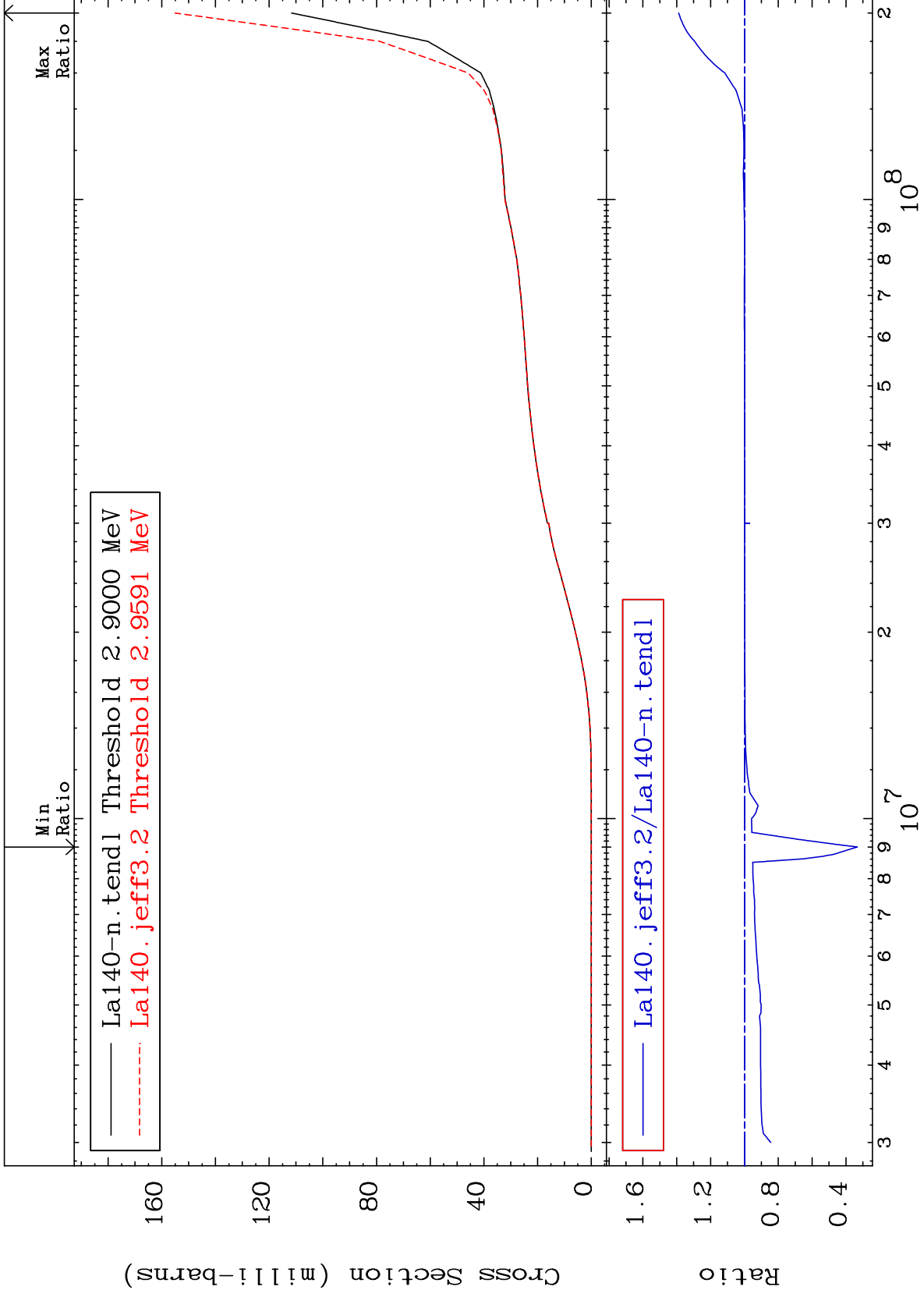
Incident Energy (eV)

57-La-140

MAT 5731

Tritium Production
Cross Section

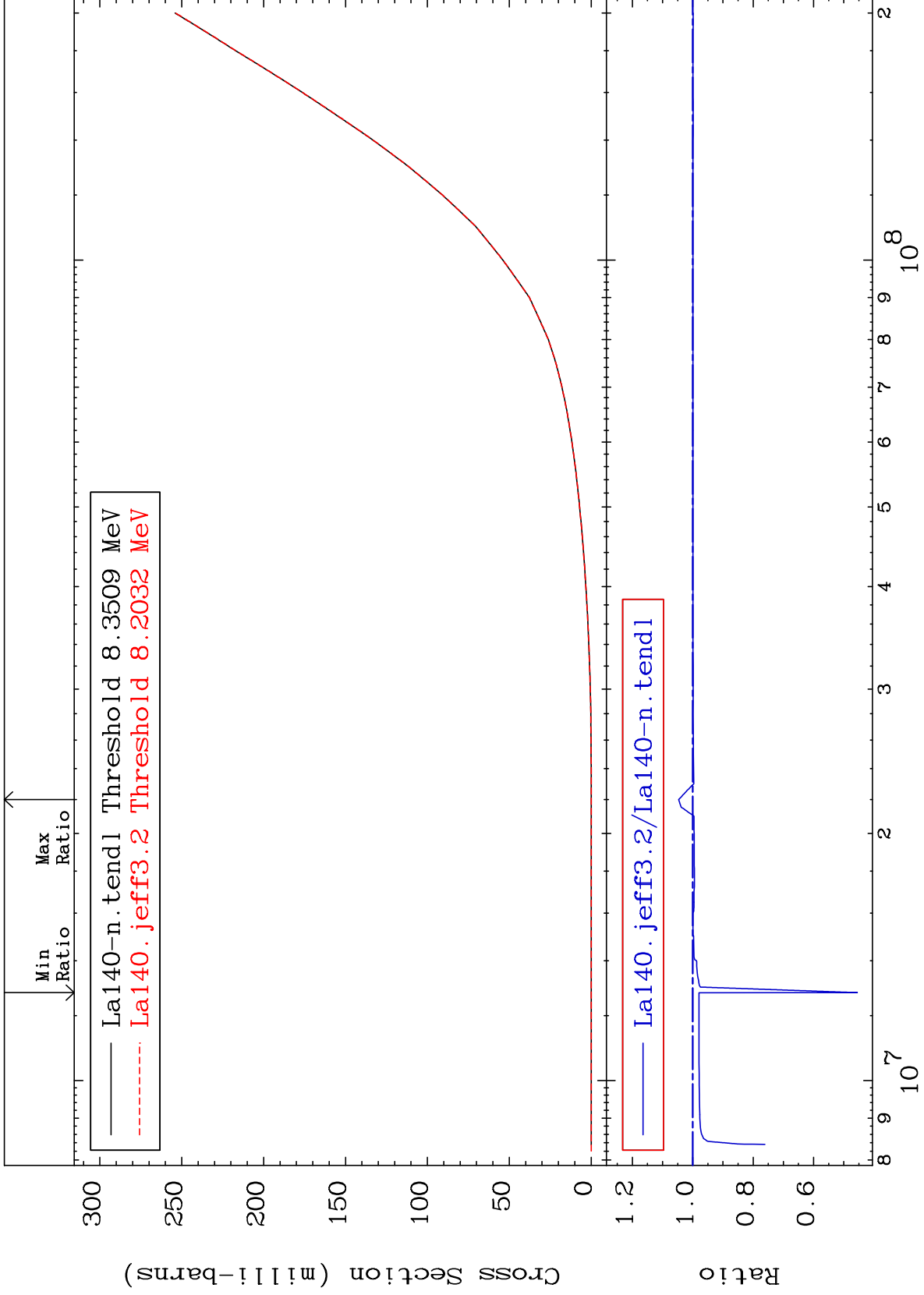
57-La-140
-66.67 To 38.88 %



MAT 5731

He-3 Production
Cross Section

57-La-140
-54.46 To 4.683 %



66

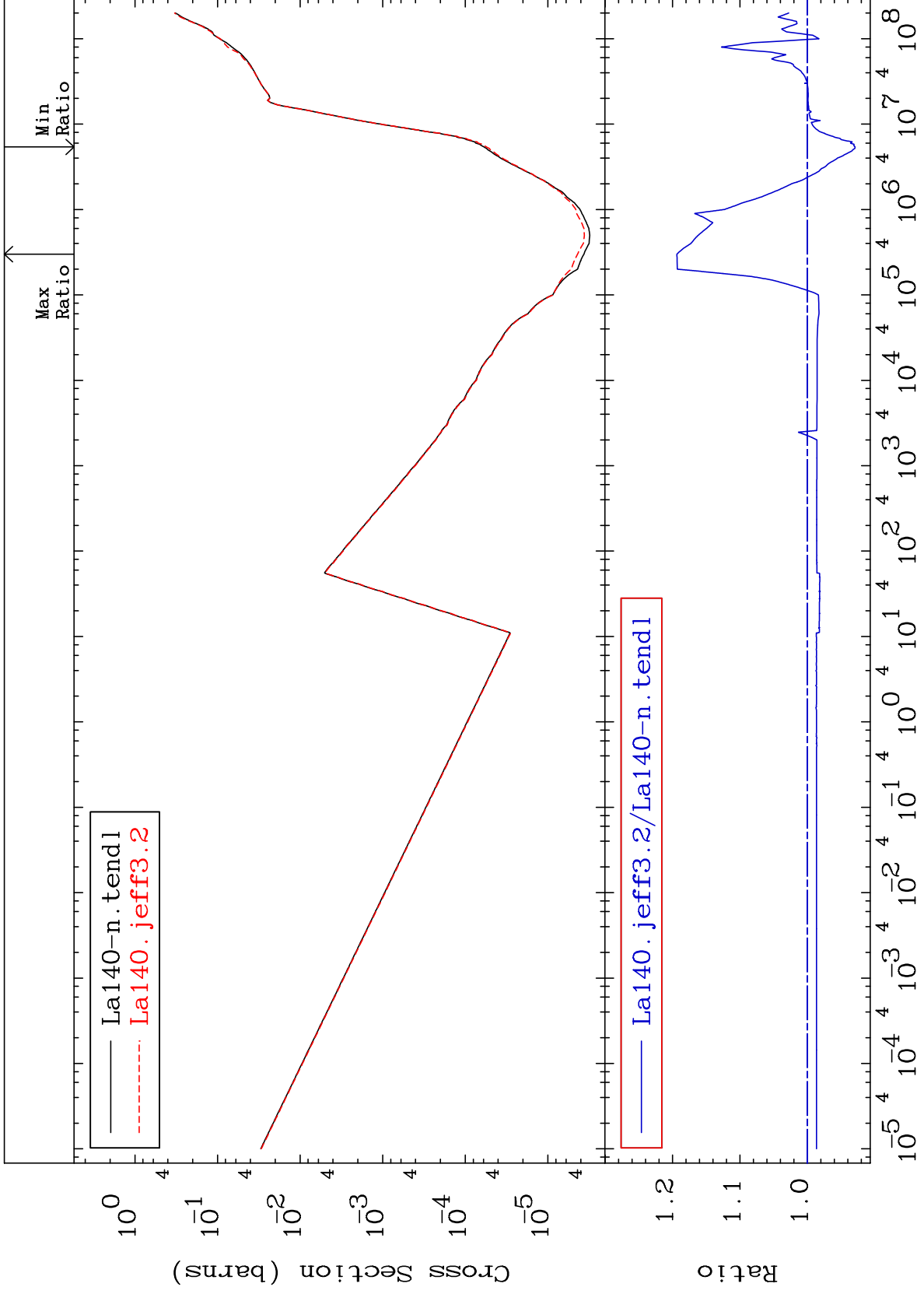
Incident Energy (eV)

57-La-140

MAT 5731

He-4 Production
Cross Section

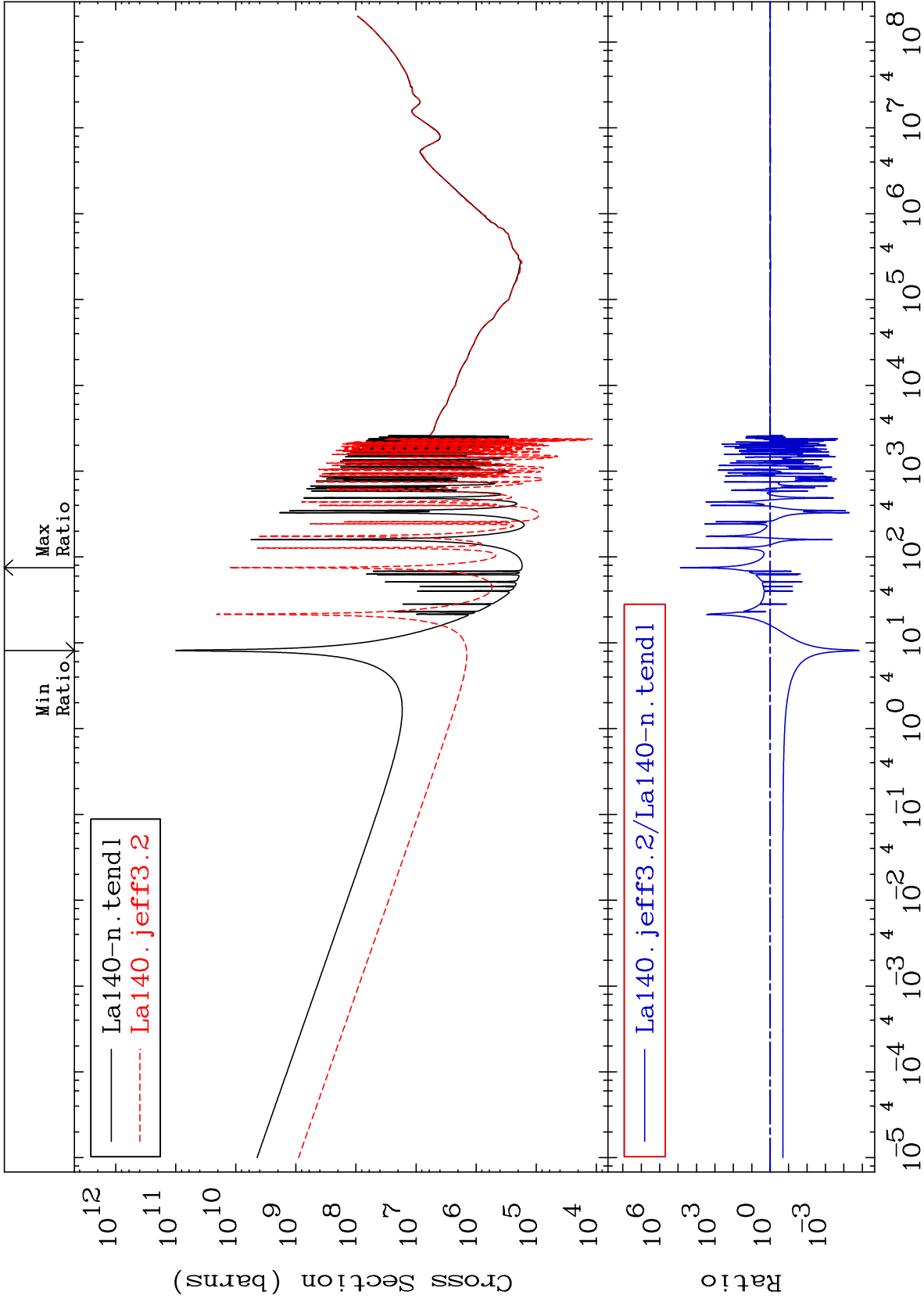
57-La-140
-7.084 To 19.34 %



67

Incident Energy (eV)

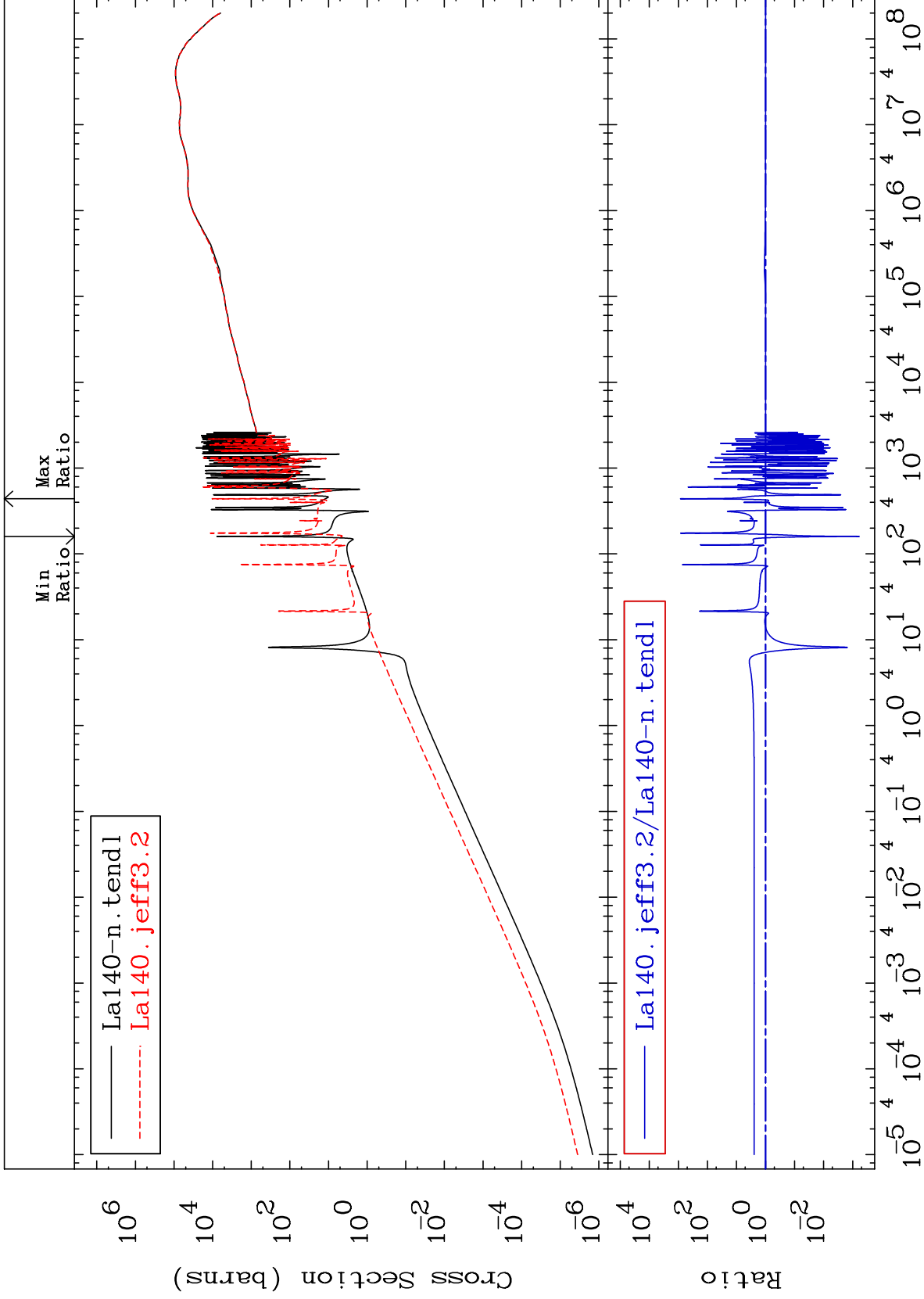
57-La-140



MAT 5731

Kerma elastic
Cross Section

57-La-140
-99.94 To 9999. %



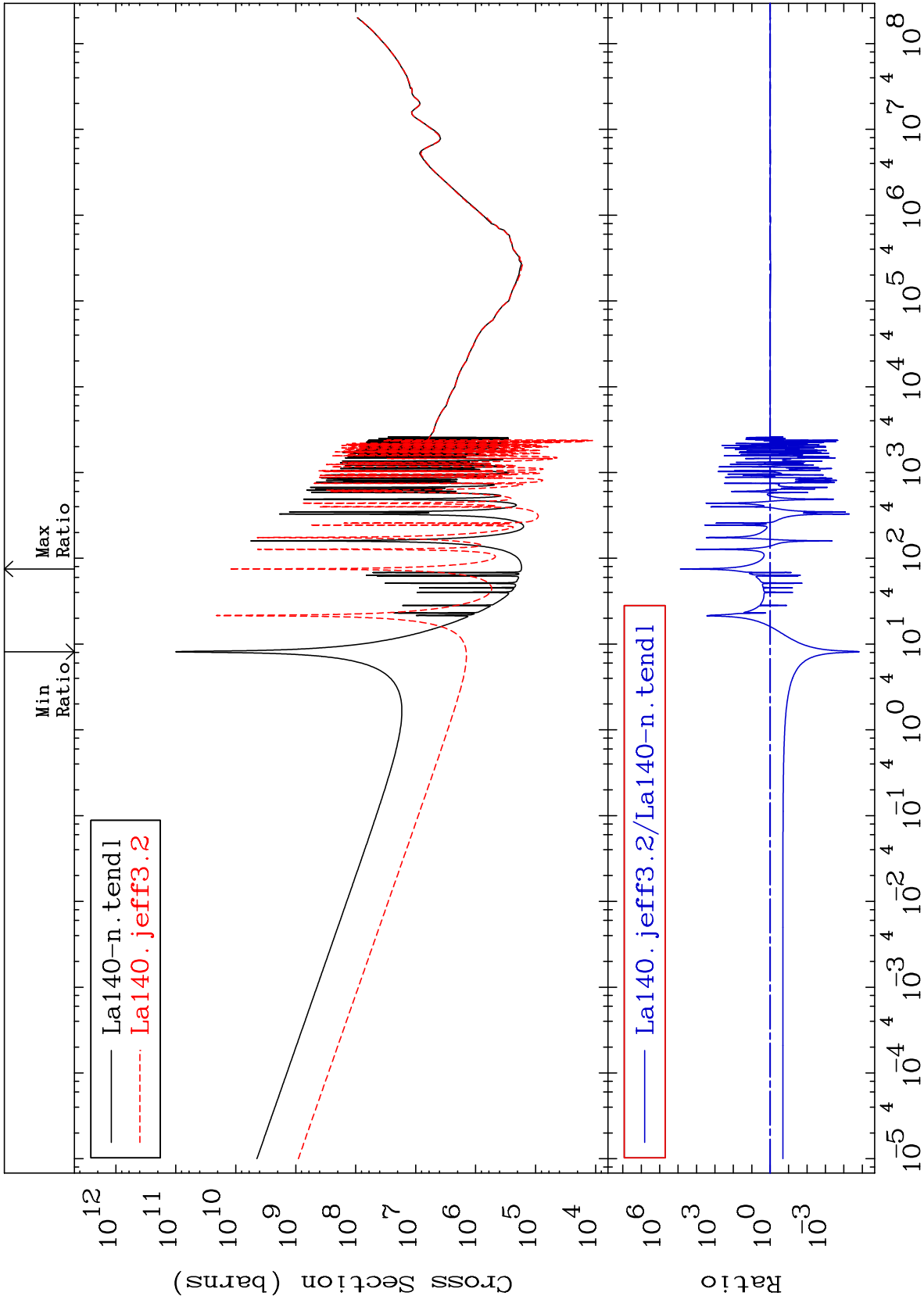
MAT 5731

Kerma non-elastic (all but mt2)

57-La-140

-100.0 To 9999. %

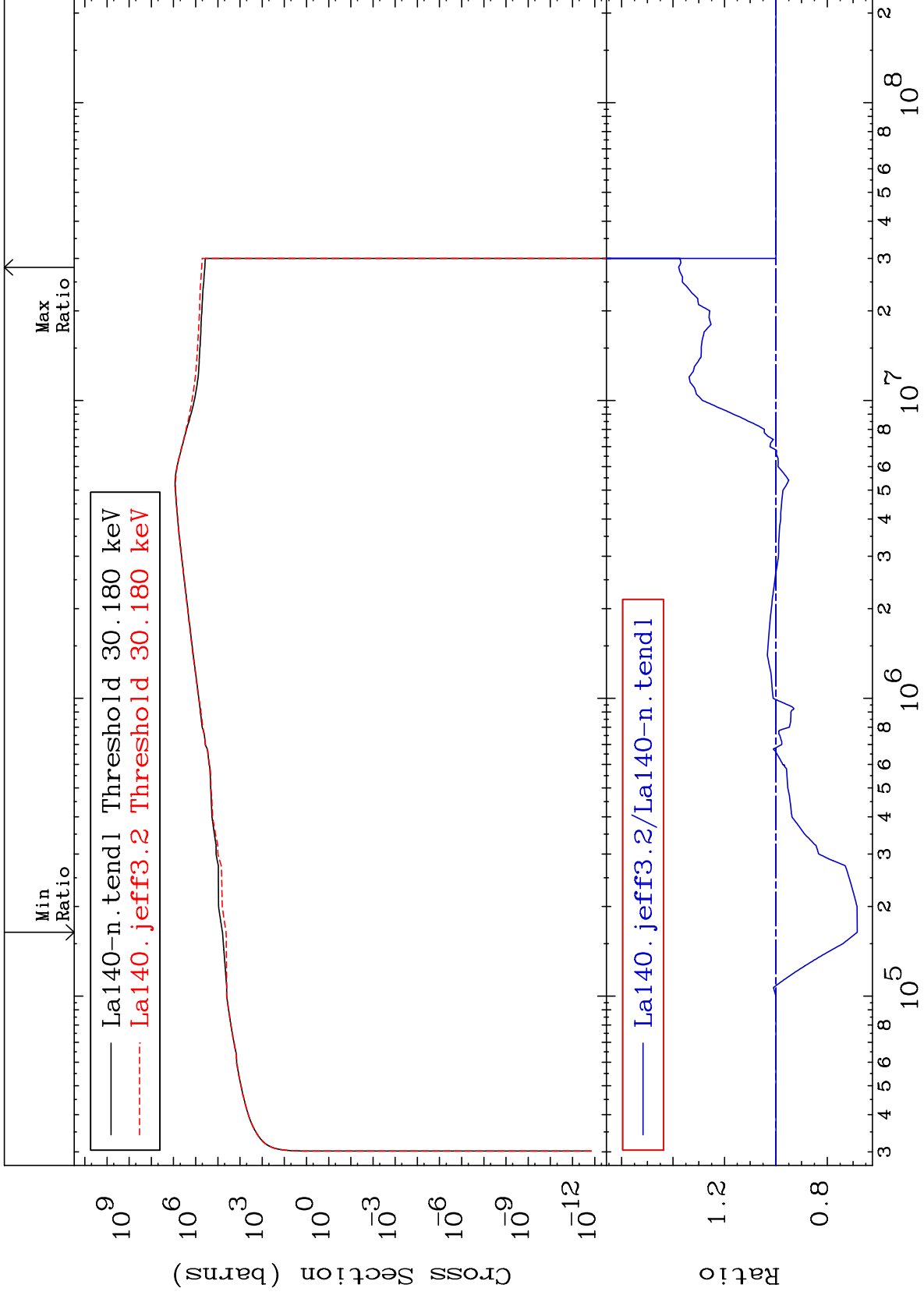
Cross Section



70

Incident Energy (eV)

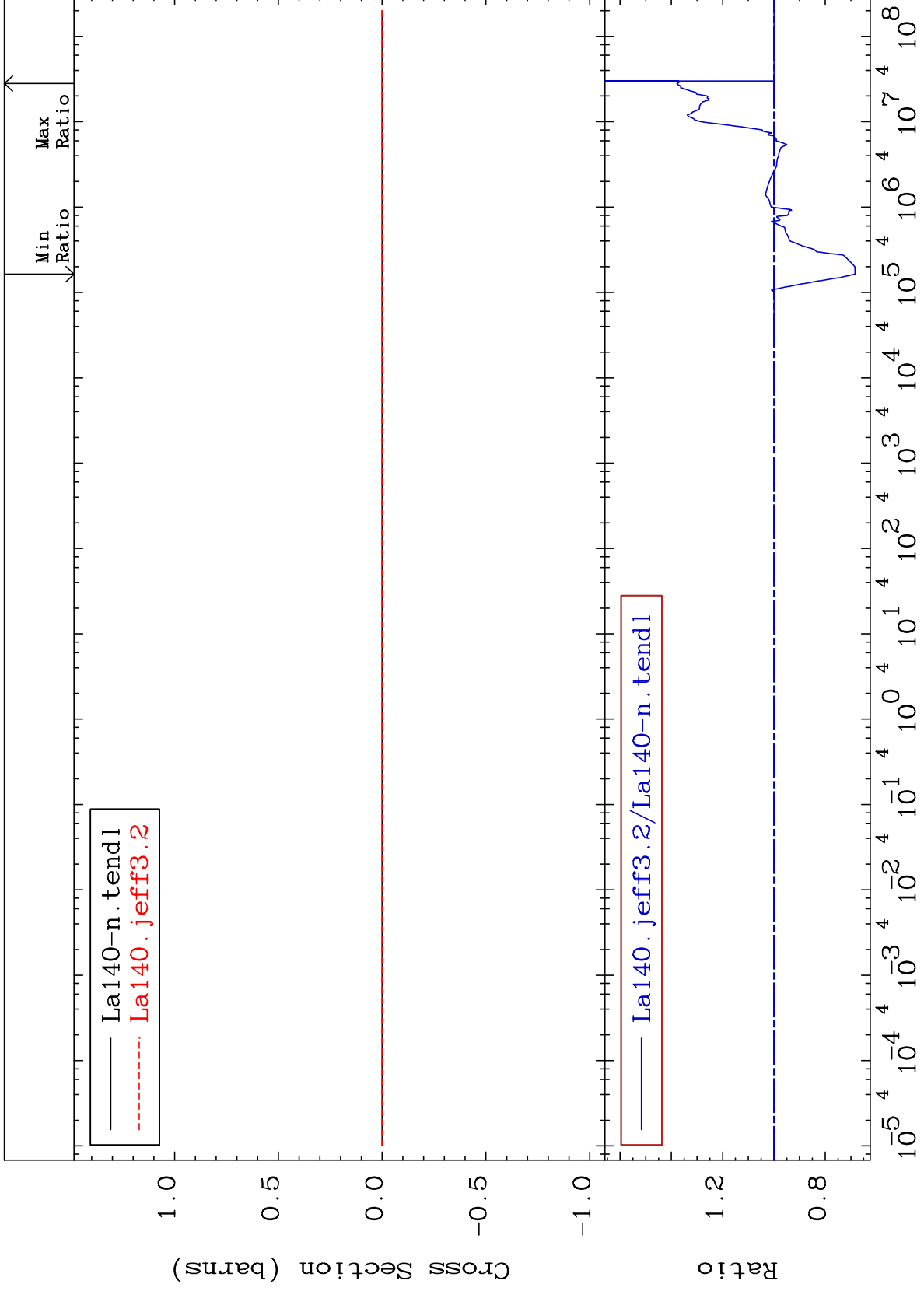
57-La-140



MAT 5731

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

57-La-140
-31.65 To 37.84 %



72

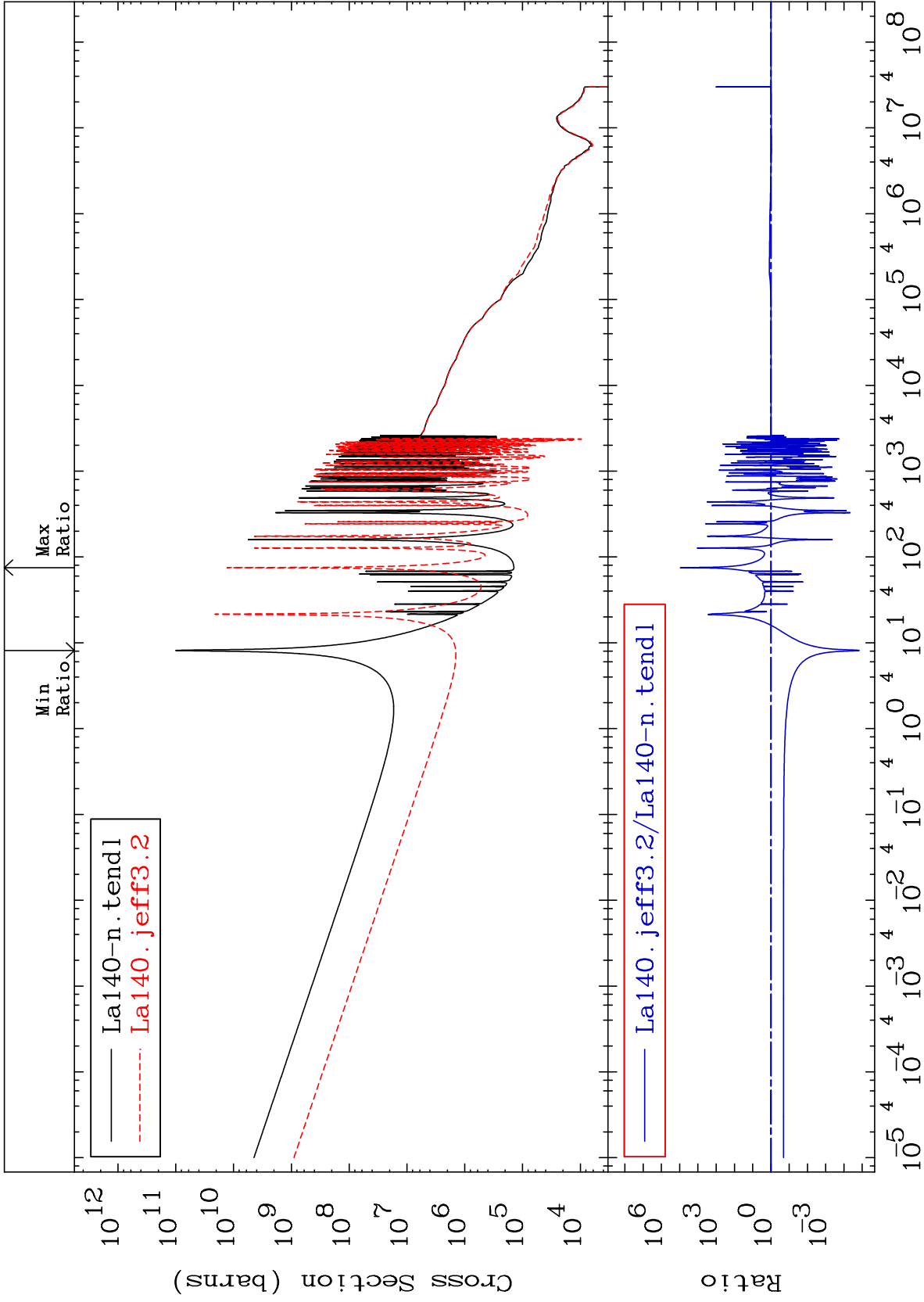
Incident Energy (eV)

57-La-140

MAT 5731

Kerma capture (mt102)
Cross Section

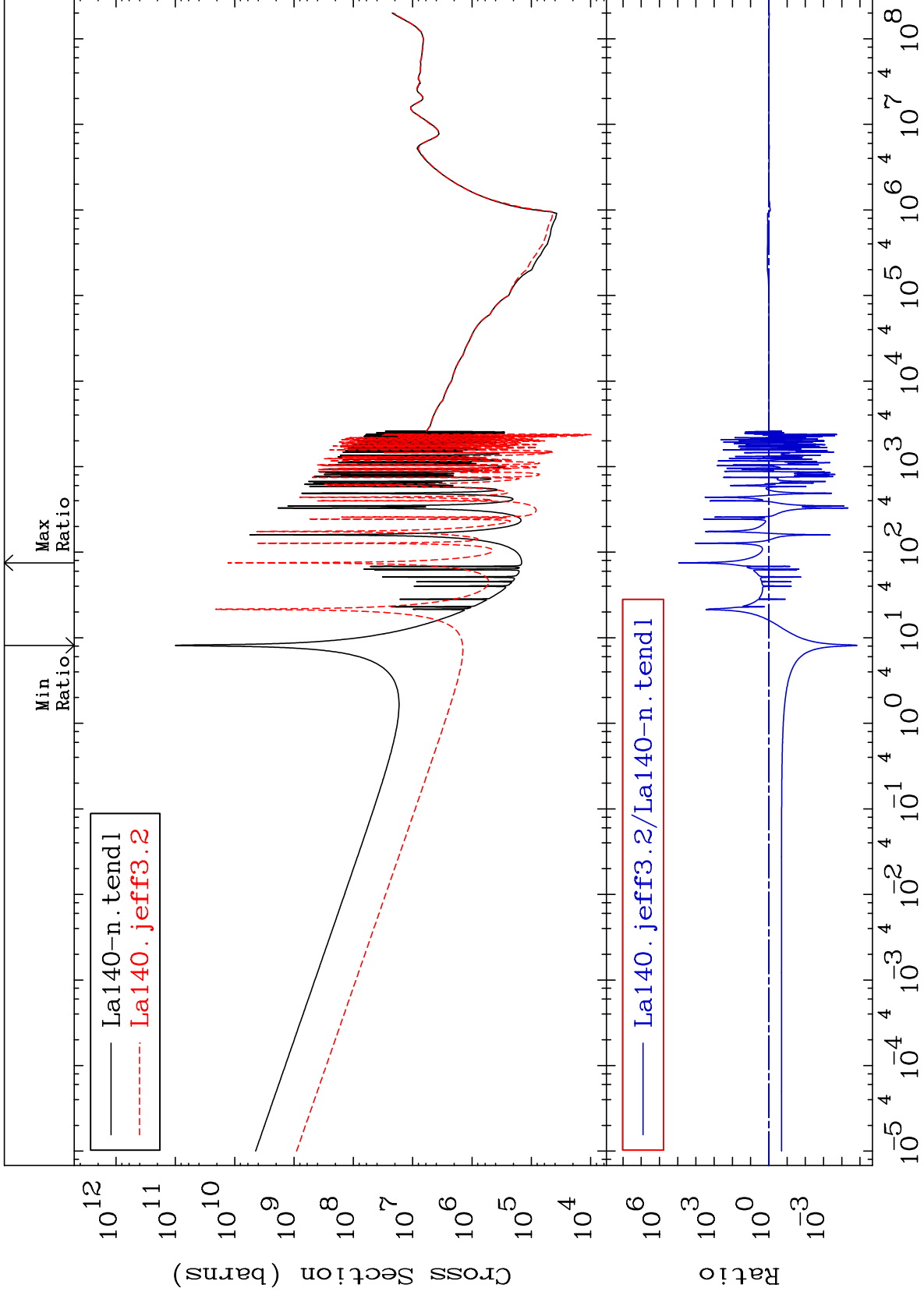
57-La-140
-100.0 To 9999. %



MAT 5731

Total photon (eV-barns)
Cross Section

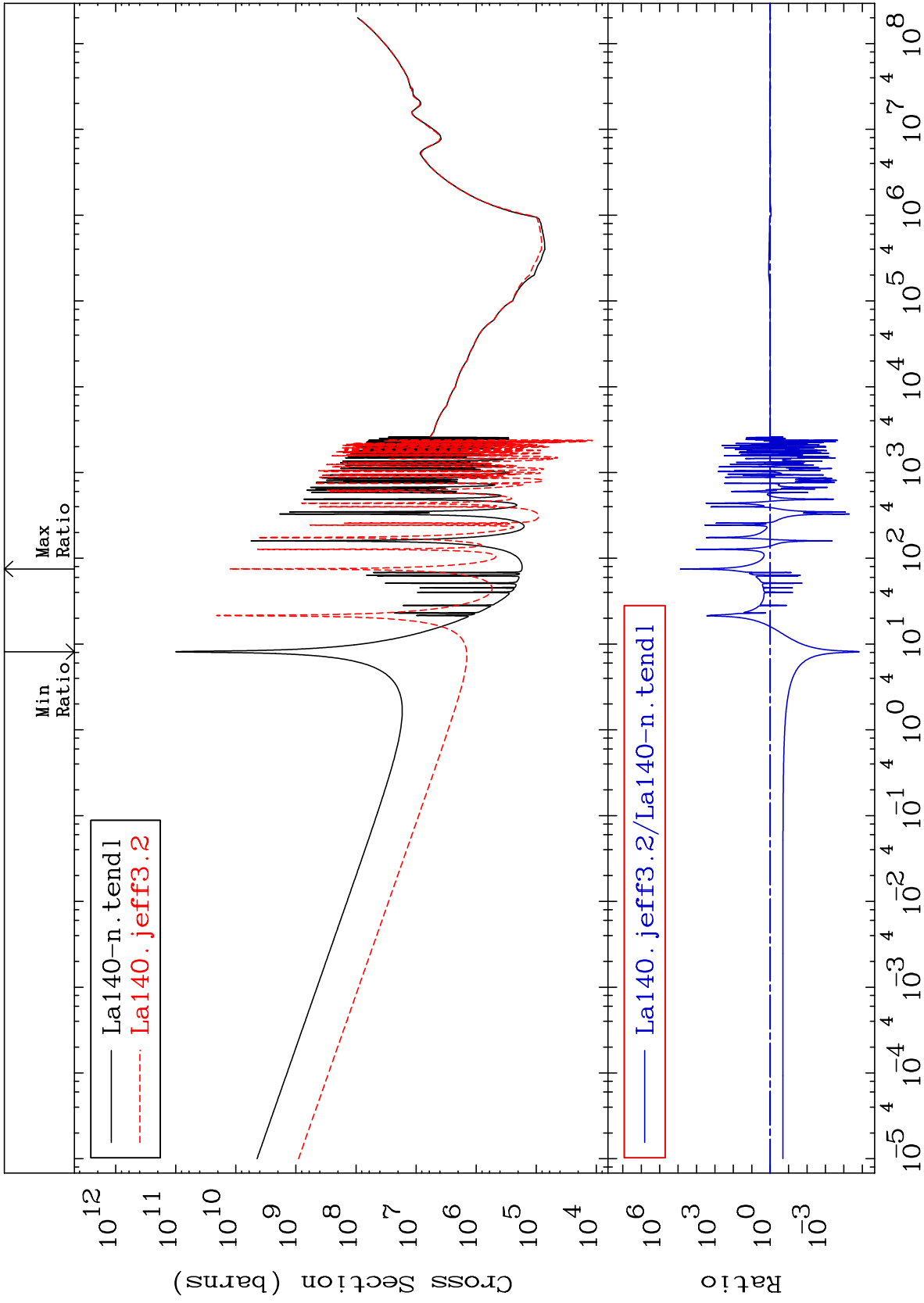
57-La-140
-100.0 To 9999. %



74

Incident Energy (eV)

57-La-140



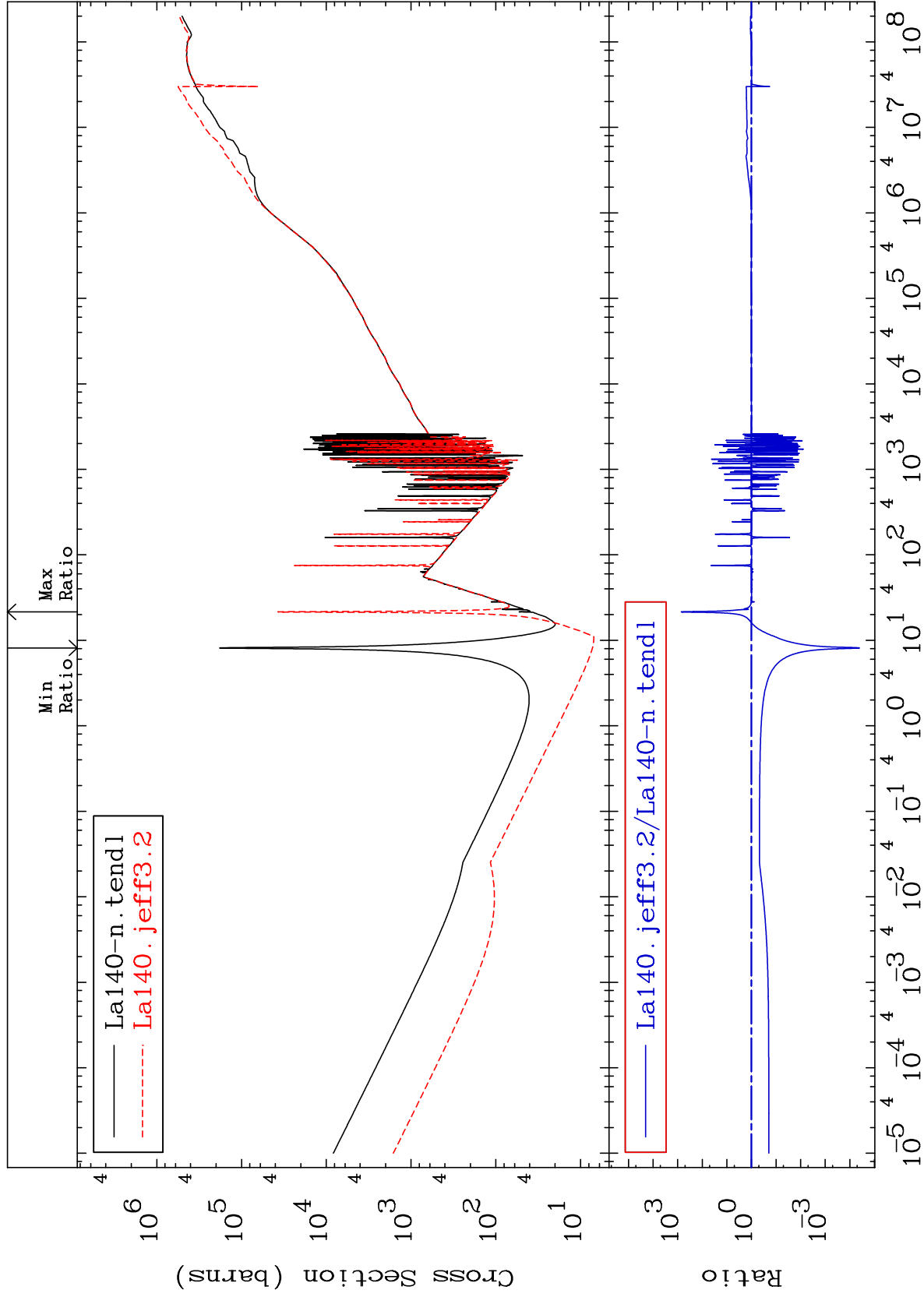
MAT 5731

Dpa total (eV-barns)

57-La-140

-100.0 To 9999. %

Cross Section



76

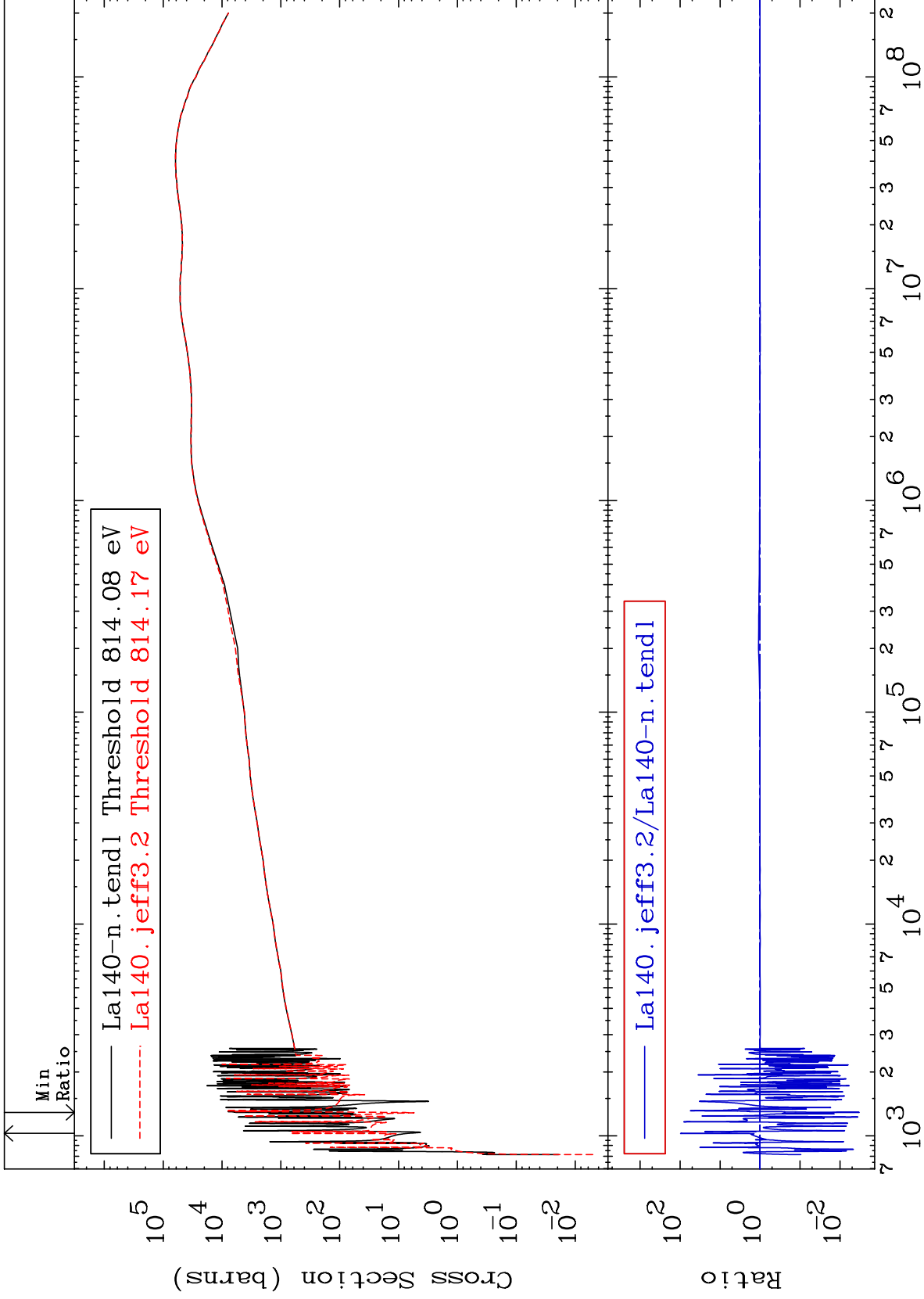
Incident Energy (eV)

57-La-140

MAT 5731

Dpa elastic (mt2)
Cross Section

57-La-140
-99.67 To 9725. %



77

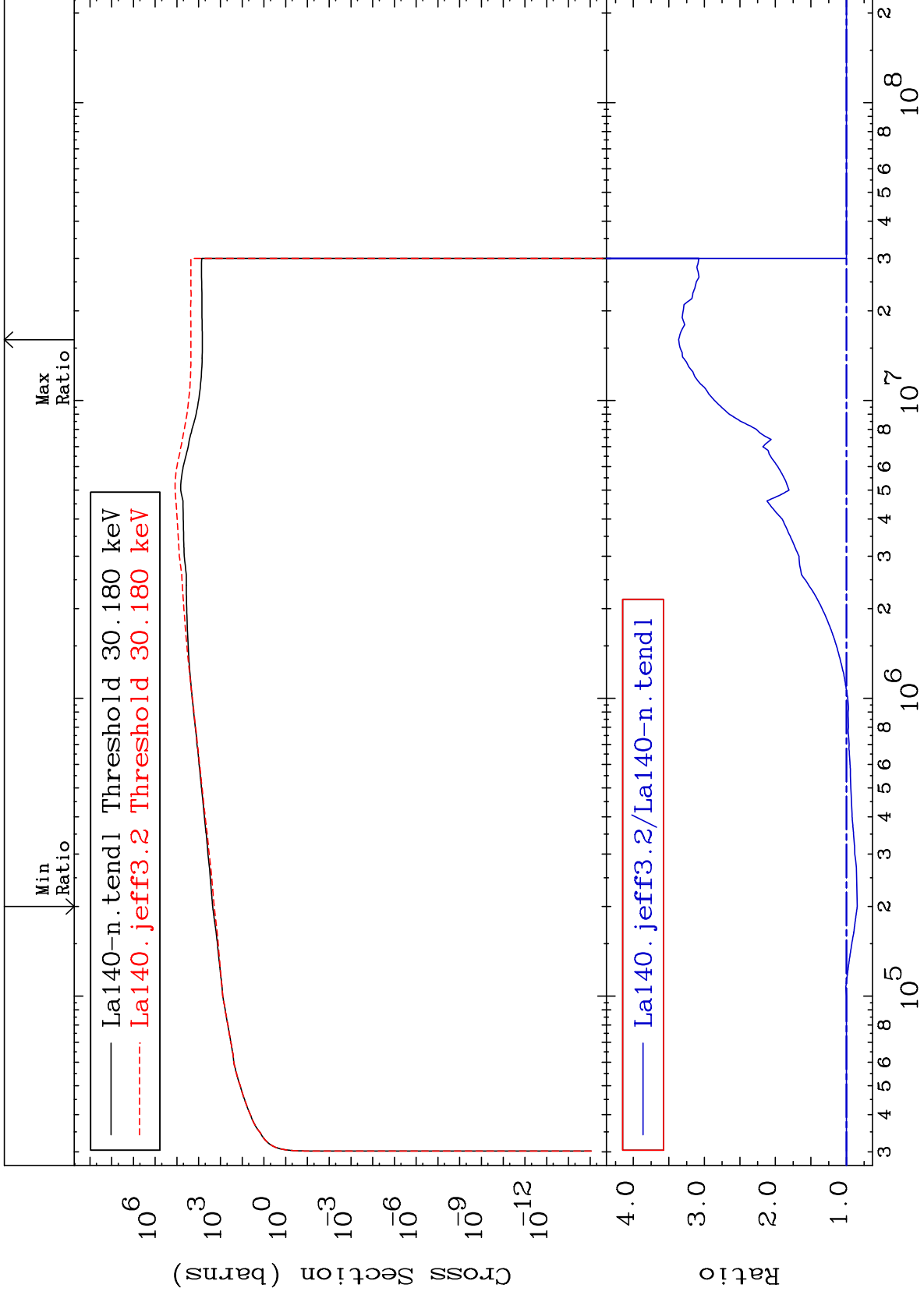
Incident Energy (eV)

57-La-140

MAT 5731

Dpa inelastic (mt51-91)
Cross Section

57-La-140
-15.24 To 236.2 %



78

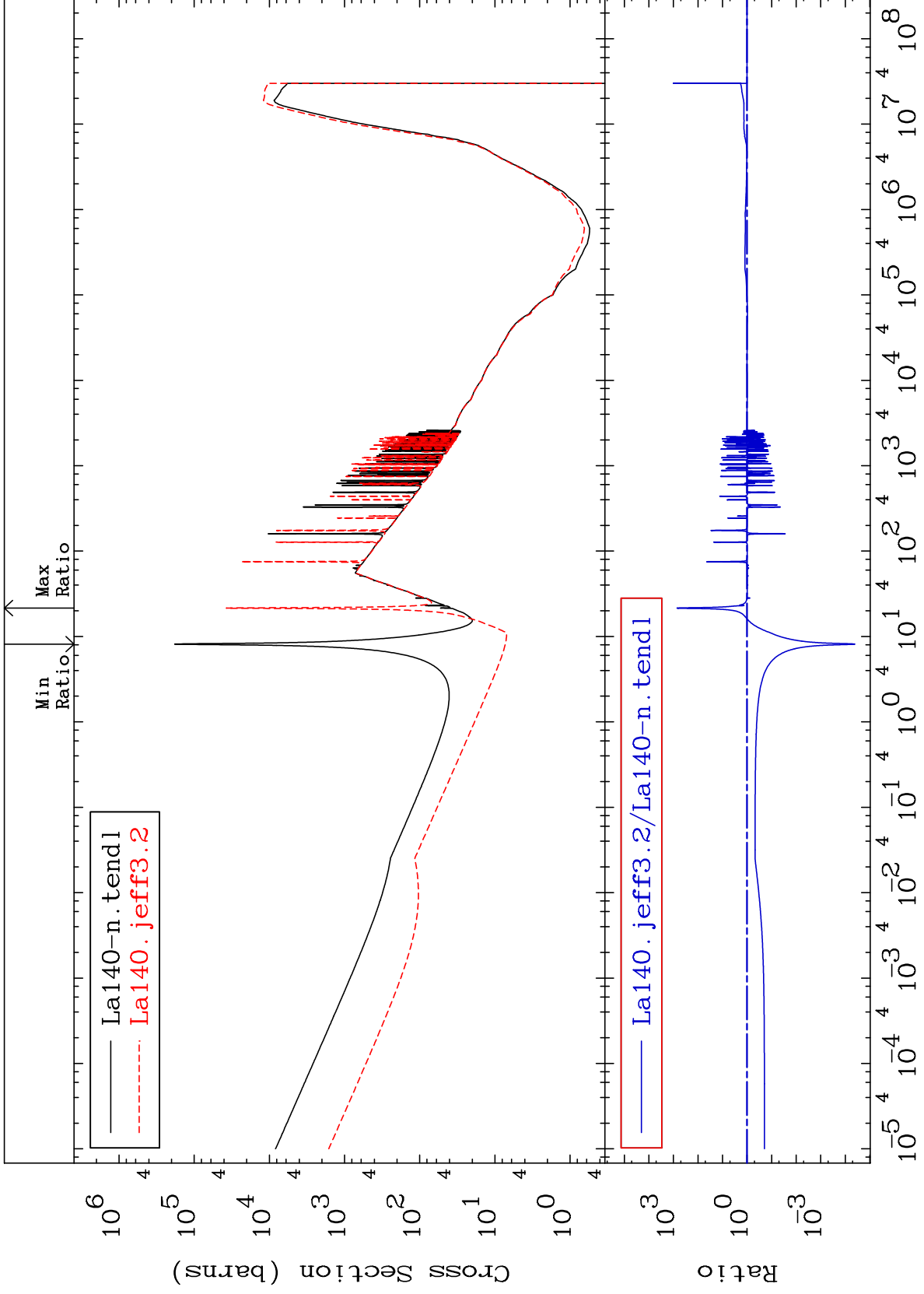
Incident Energy (eV)

57-La-140

MAT 5731

Dpa disappearance (mt102 -120)
Cross Section

57-La-140
-100.0 To 9999. %

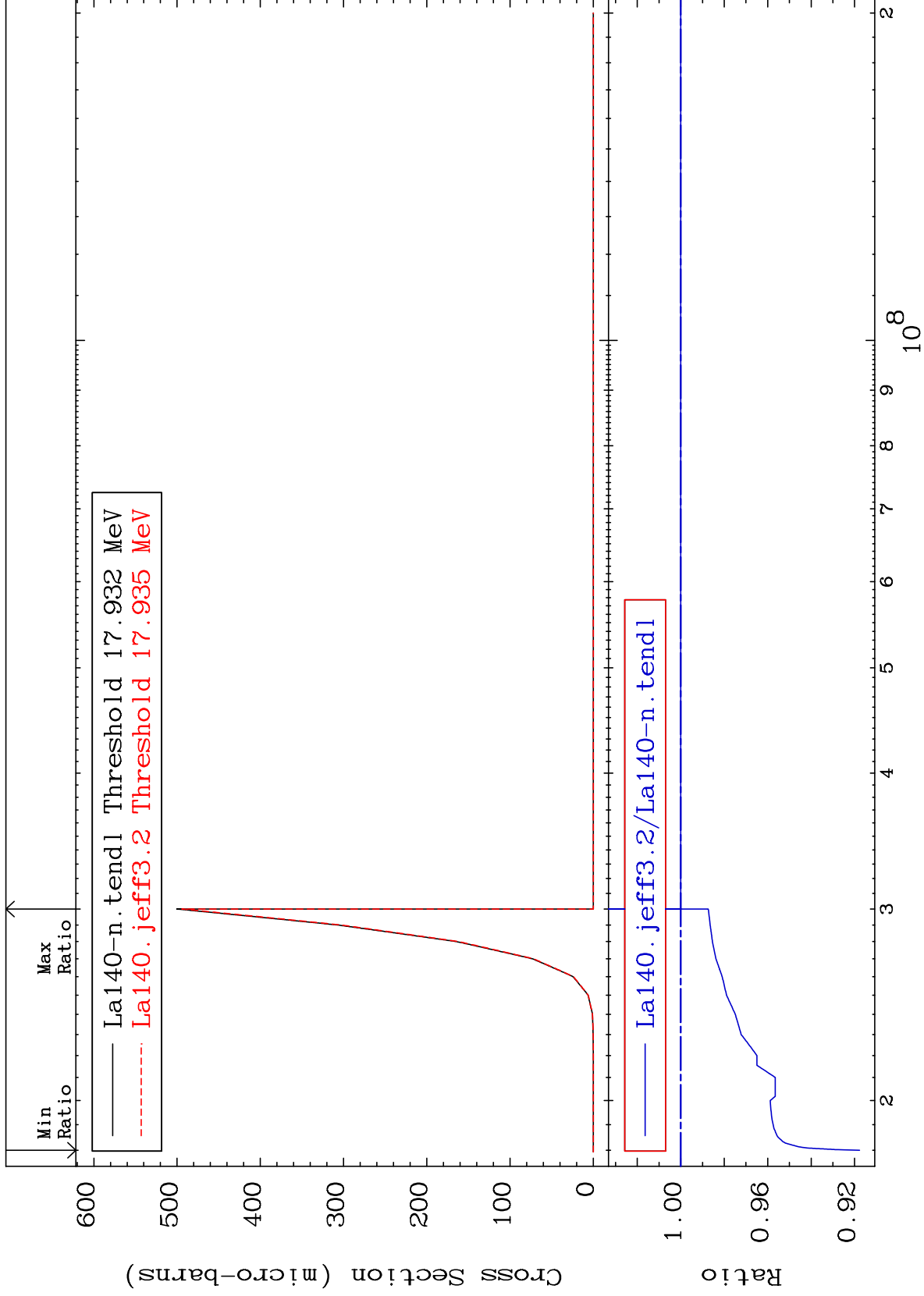


MAT 5731

(n,2n) d:56-Ba-137g

57-La-140

Radionuclide Production Cross Section -8.227 To 0.000 %



80

Incident Energy (eV)

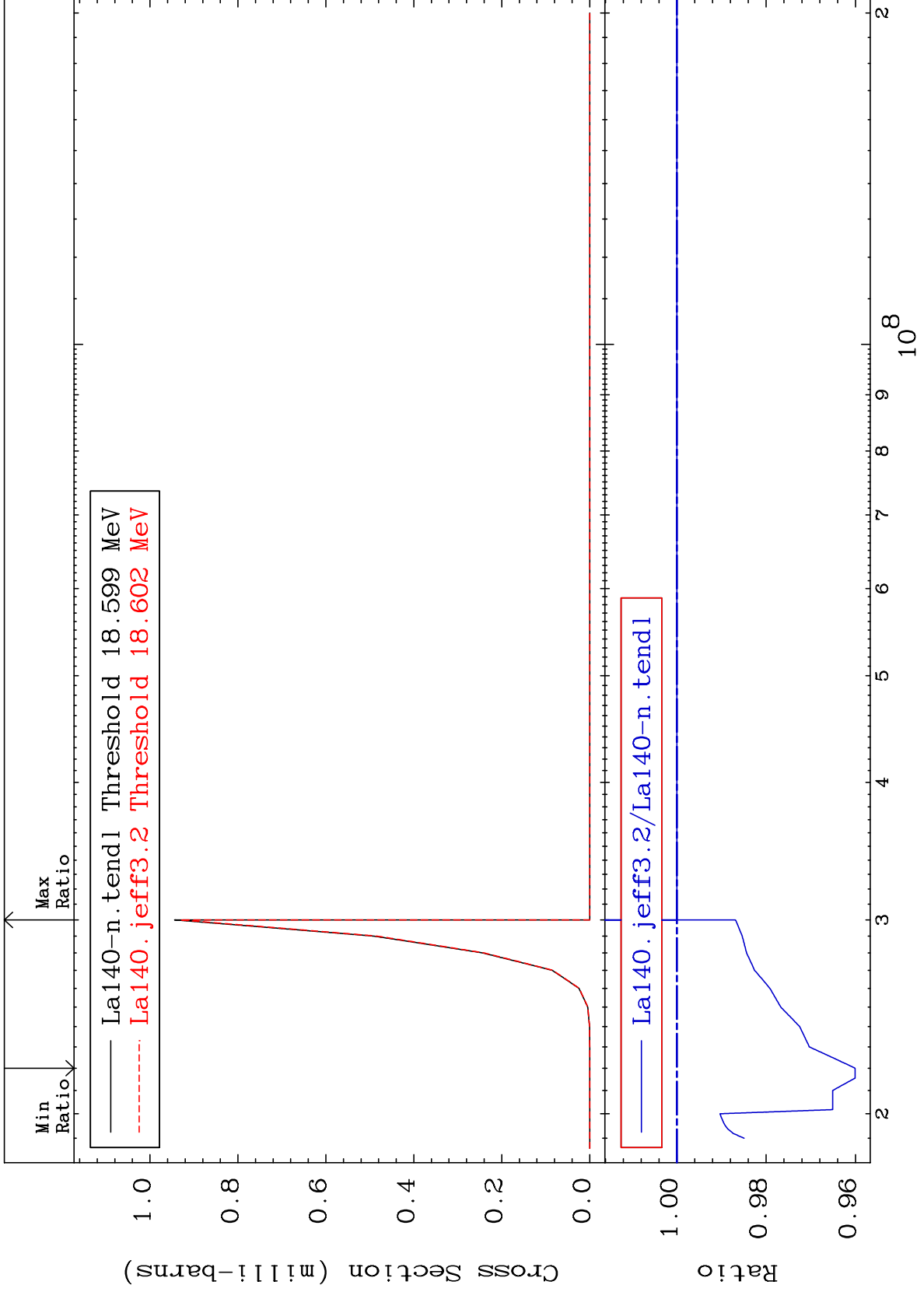
57-La-140

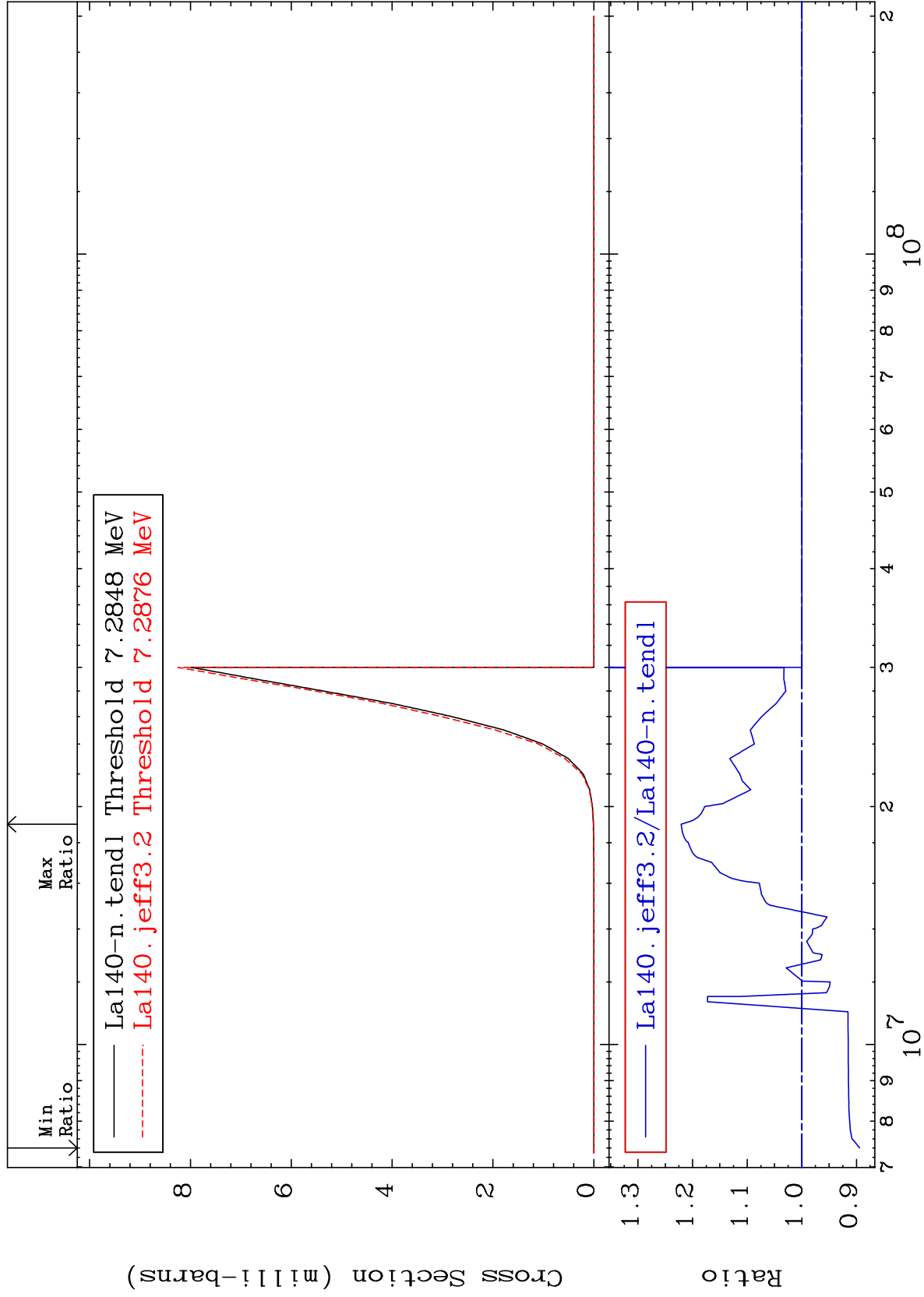
MAT 5731

(n,2n) d:56-Ba-137m2

57-La-140

Radionuclide Production Cross Section -3.992 To 0.000 %



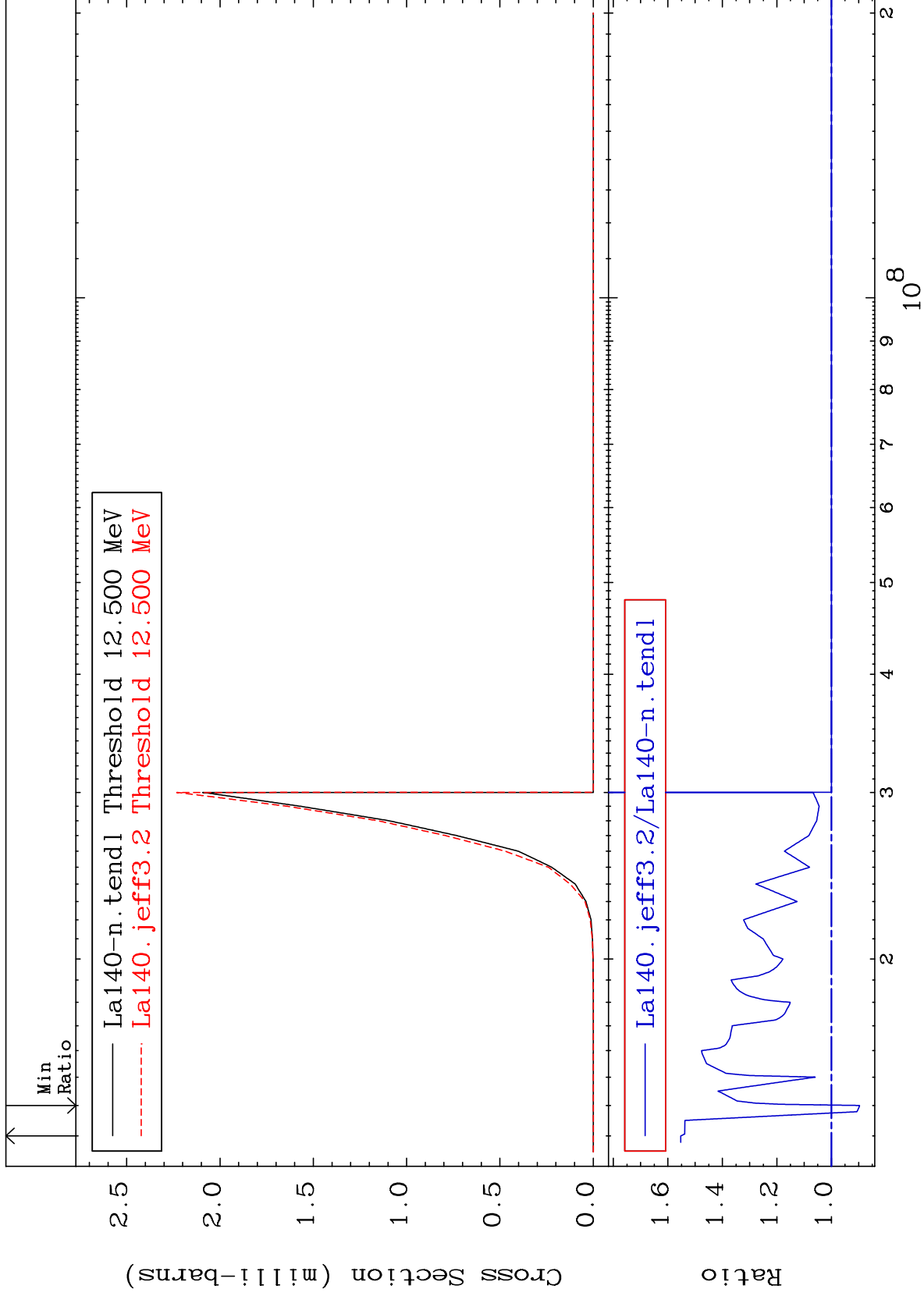


MAT 5731

(n,2n) α :55-Cs-135m10

57-La-140

Radionuclide Production Cross Section -10.33 To 55.27 %

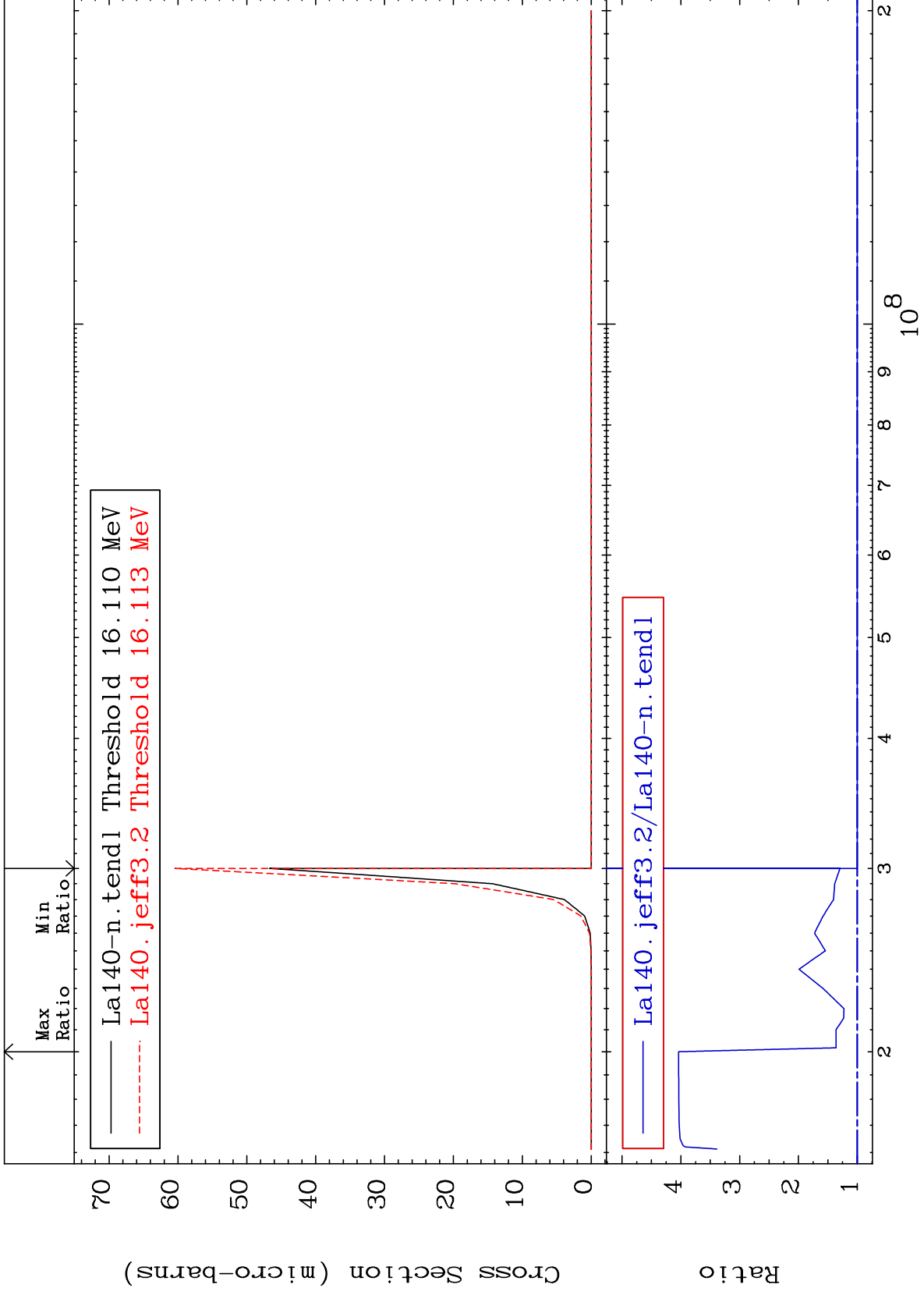


MAT 5731

(n,3n) α :55-Cs-134g

57-La-140

Radionuclide Production Cross Section 0.000 To 303.8 %

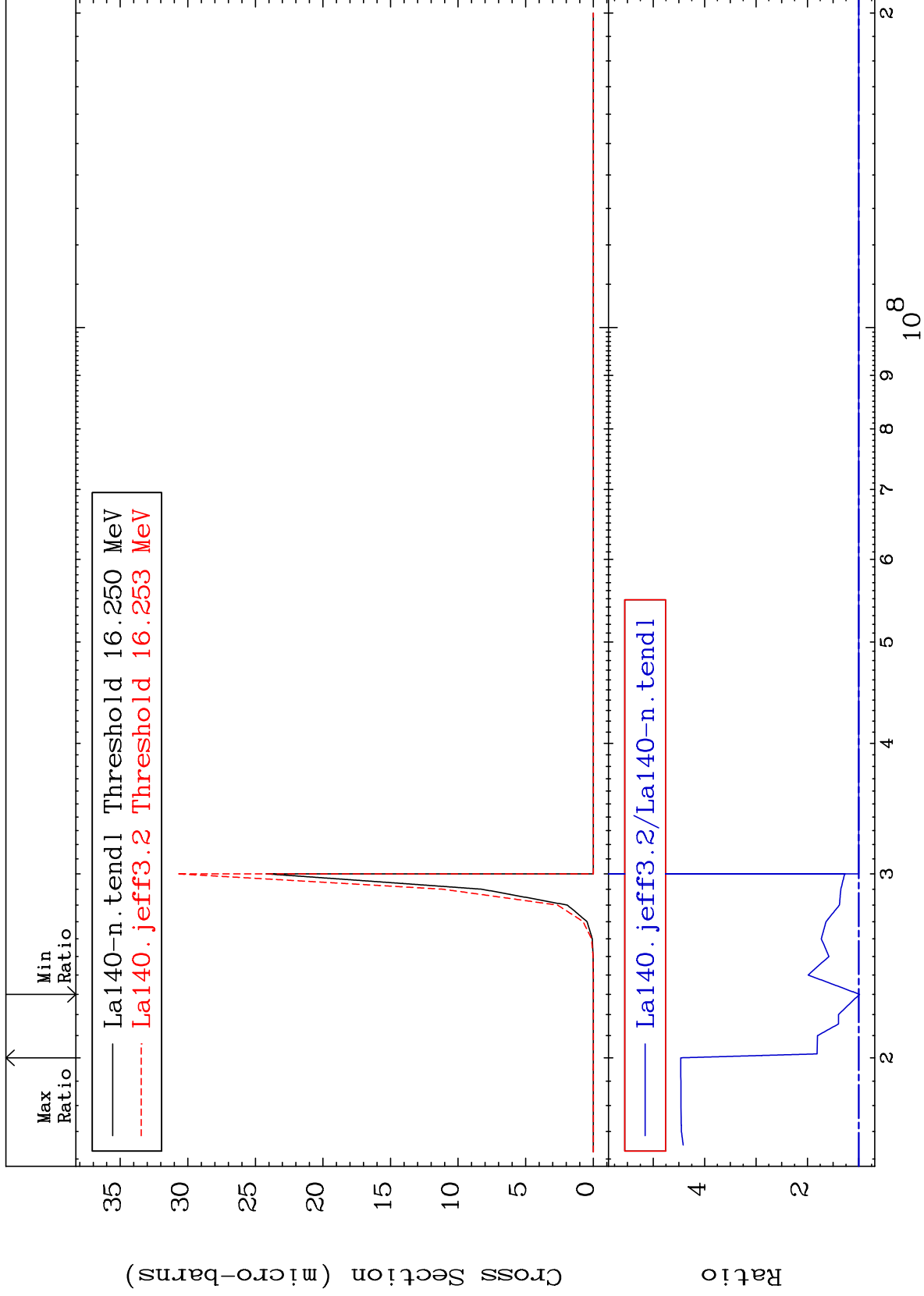


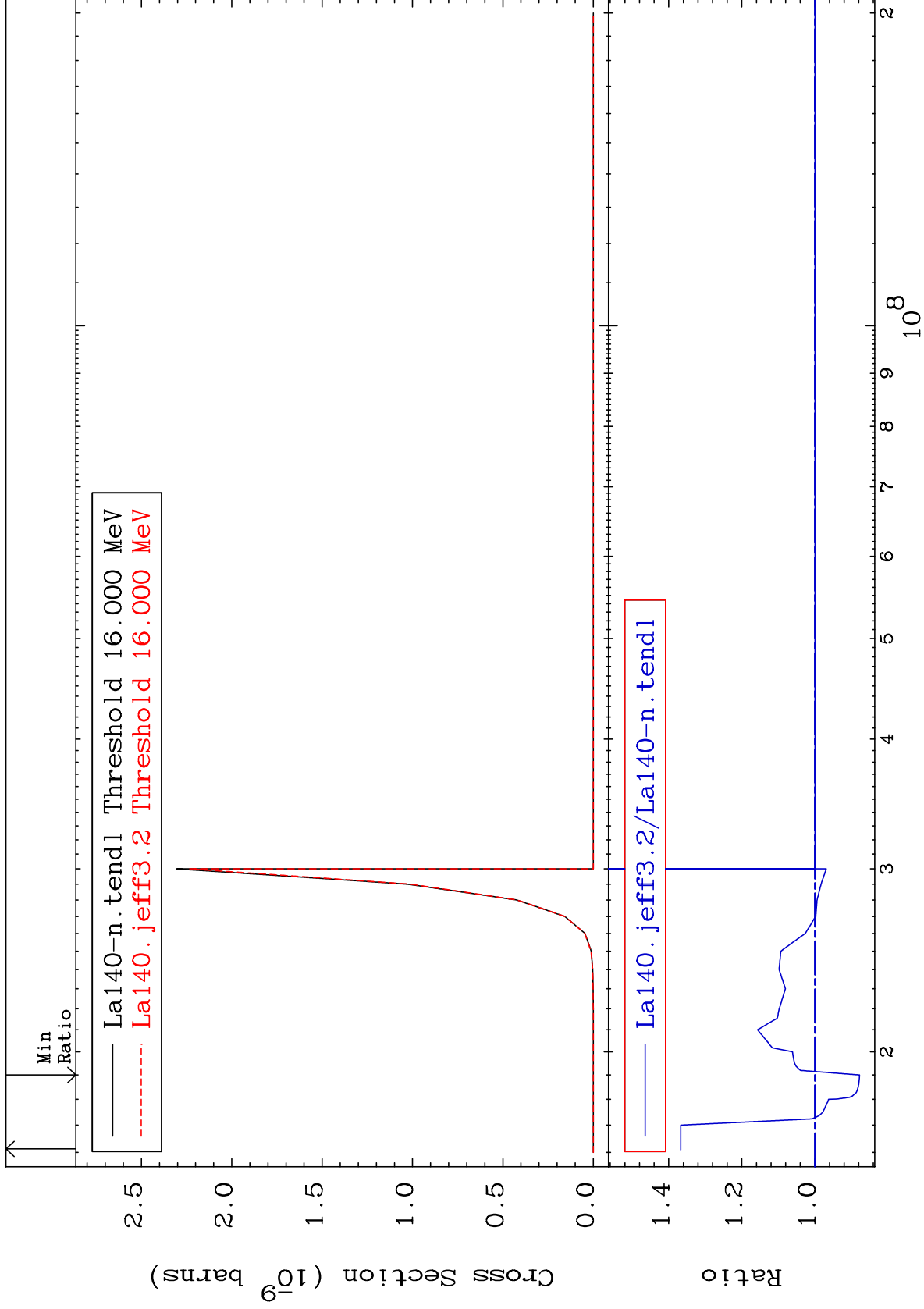
MAT 5731

(n,3n) α :55-Cs-134m3

57-La-140

Radionuclide Production Cross Section -1.428 To 346.3 %



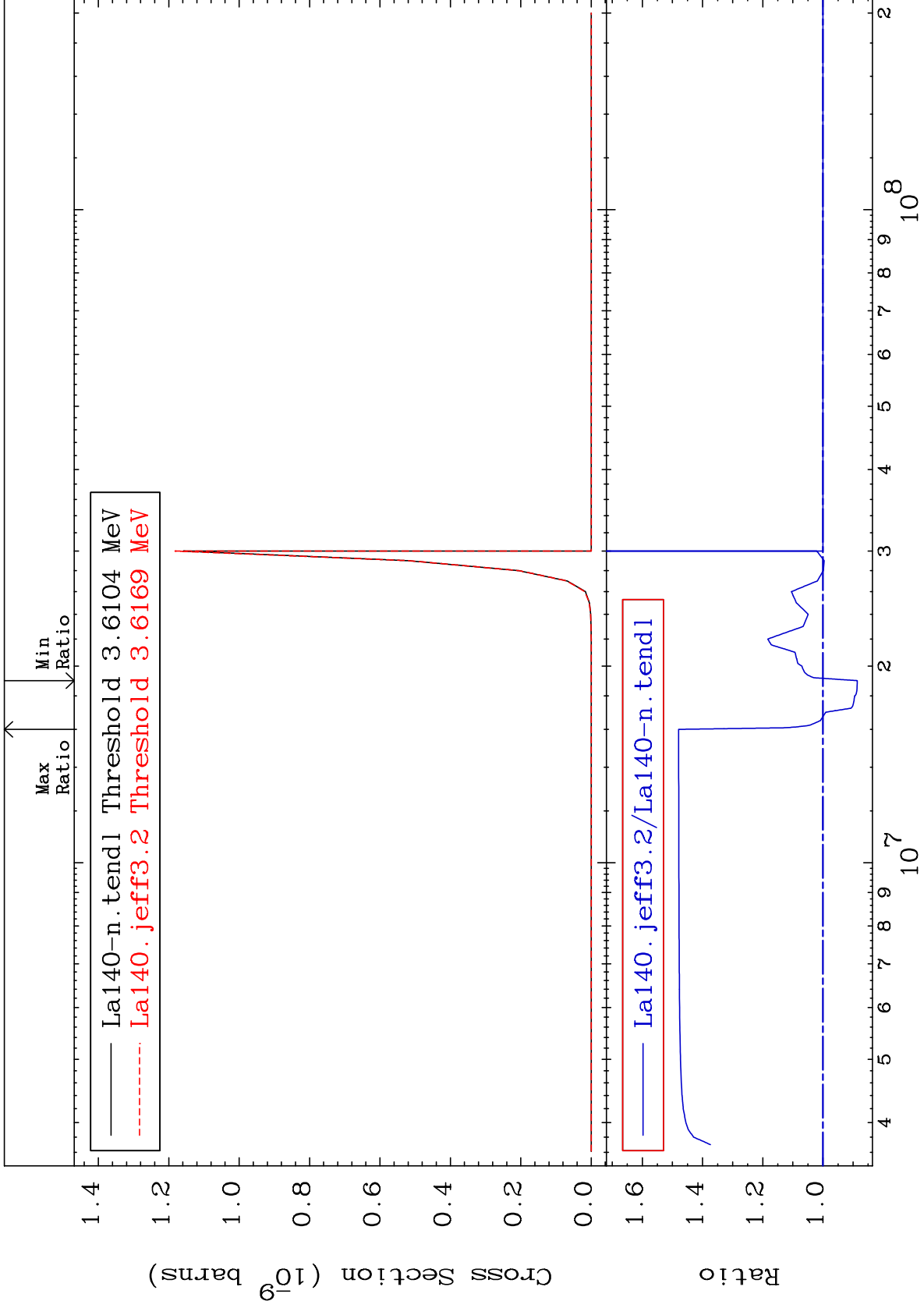


MAT 5731

(n, n') 2α:53-I -132m3

57-La-140

Radionuclide Production Cross Section -11.38 To 47.94 %

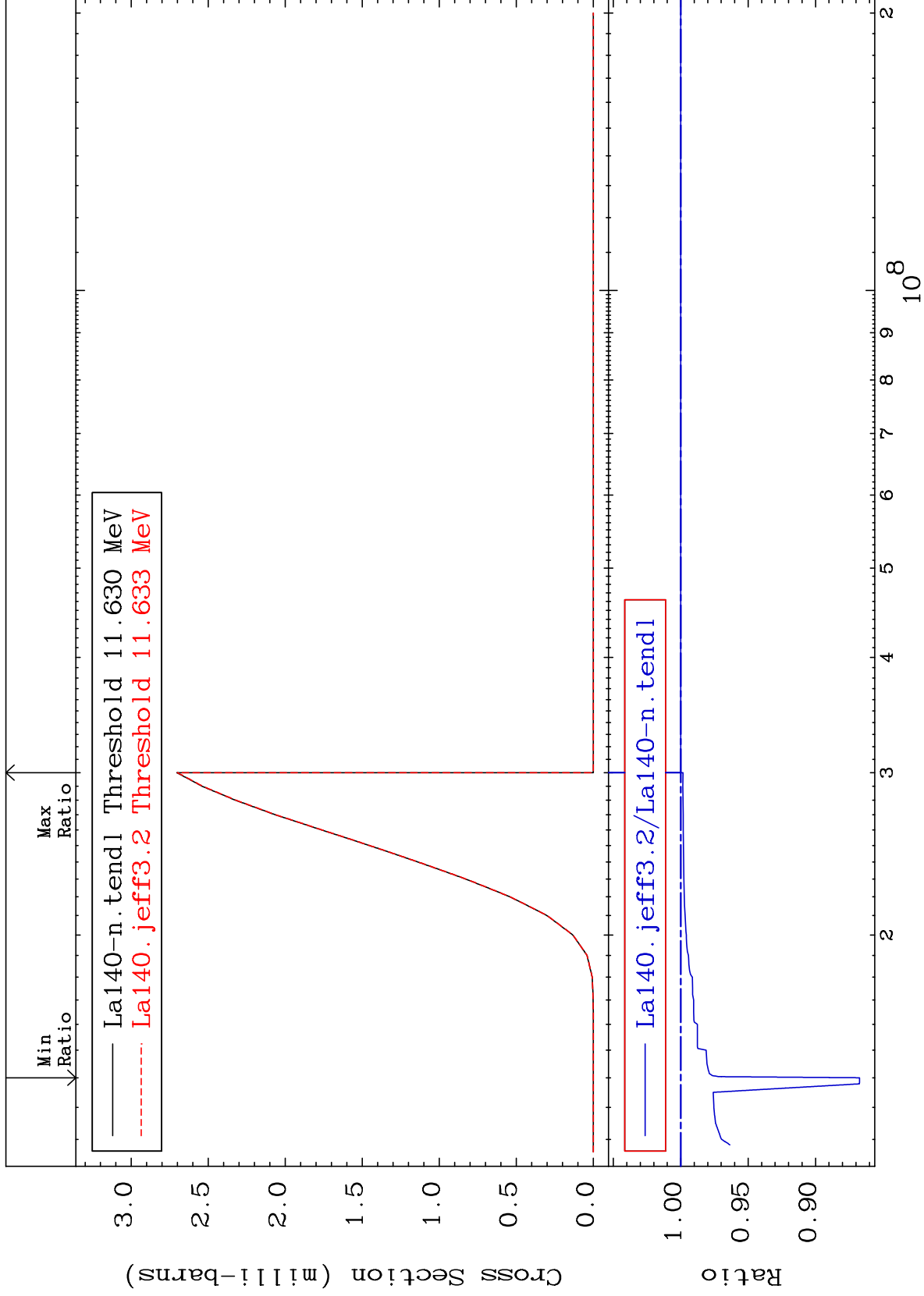


87

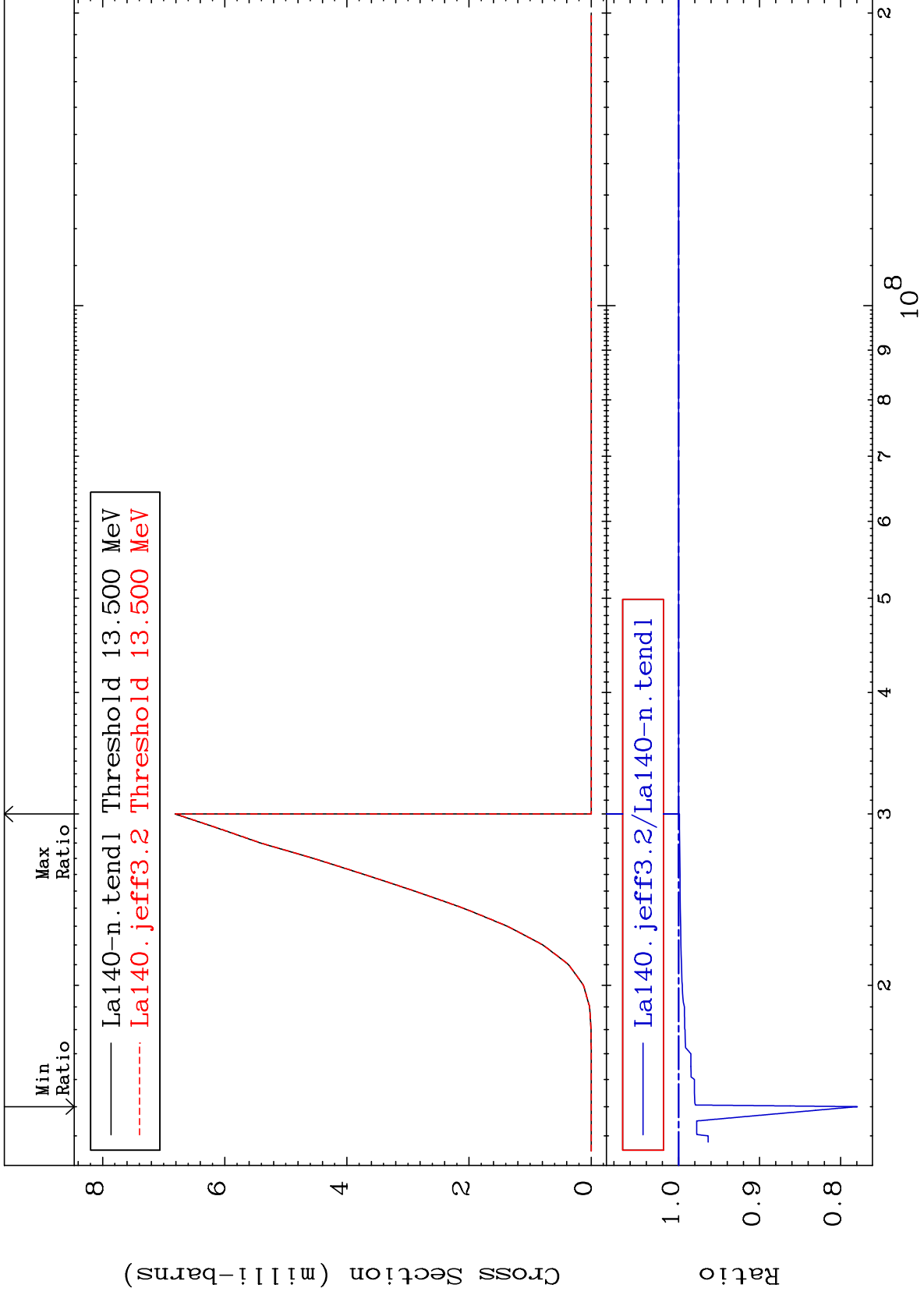
Incident Energy (eV)

57-La-140

Radionuclide Production Cross Section -13.26 To 0.000 %



Radionuclide Production Cross Section -22.06 To 0.000 %

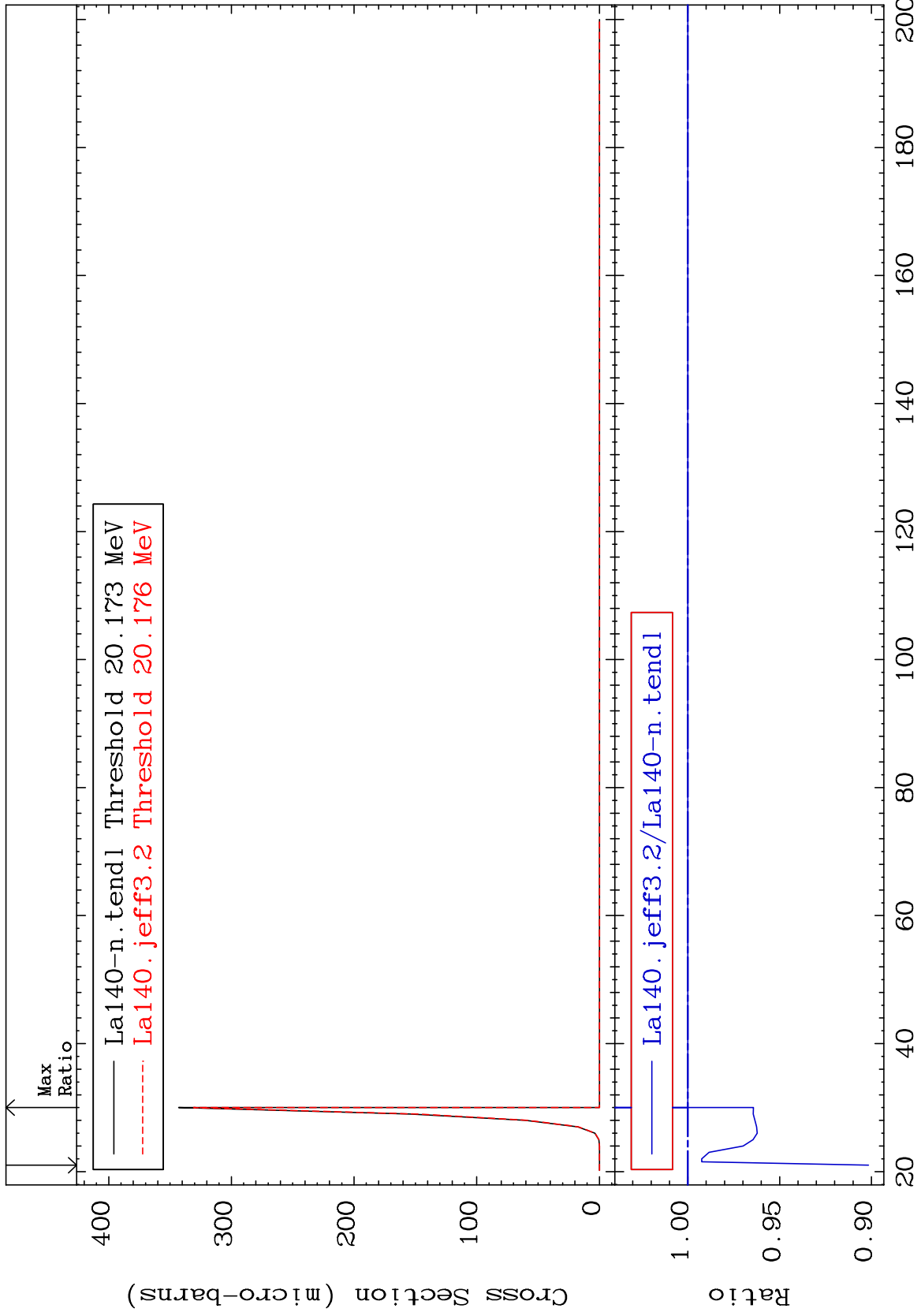


MAT 5731

(n,3n) p:56-Ba-137g

57-La-140

Radionuclide Production Cross Section -9.840 To 0.000 %



Incident Energy (MeV)

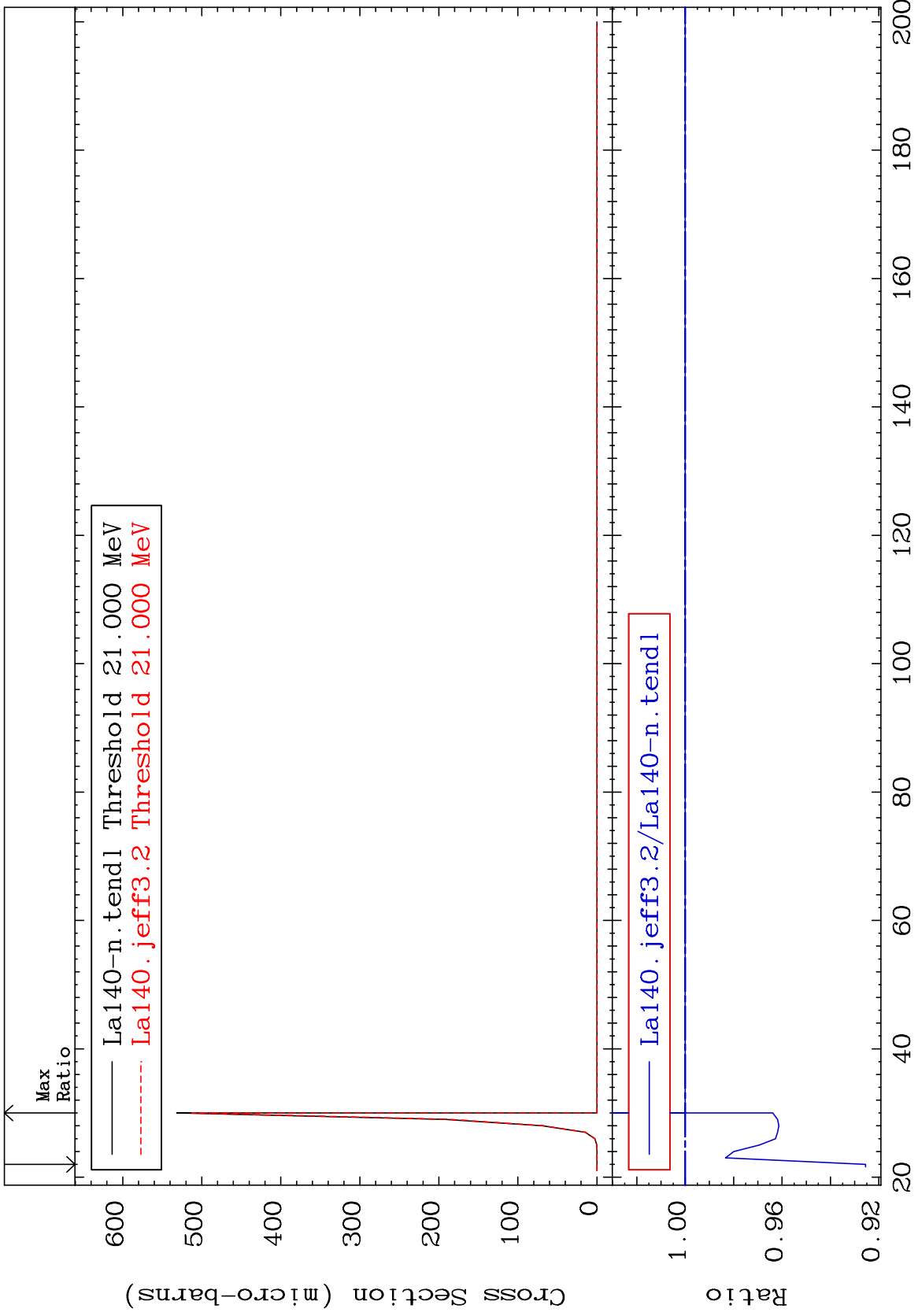
57-La-140

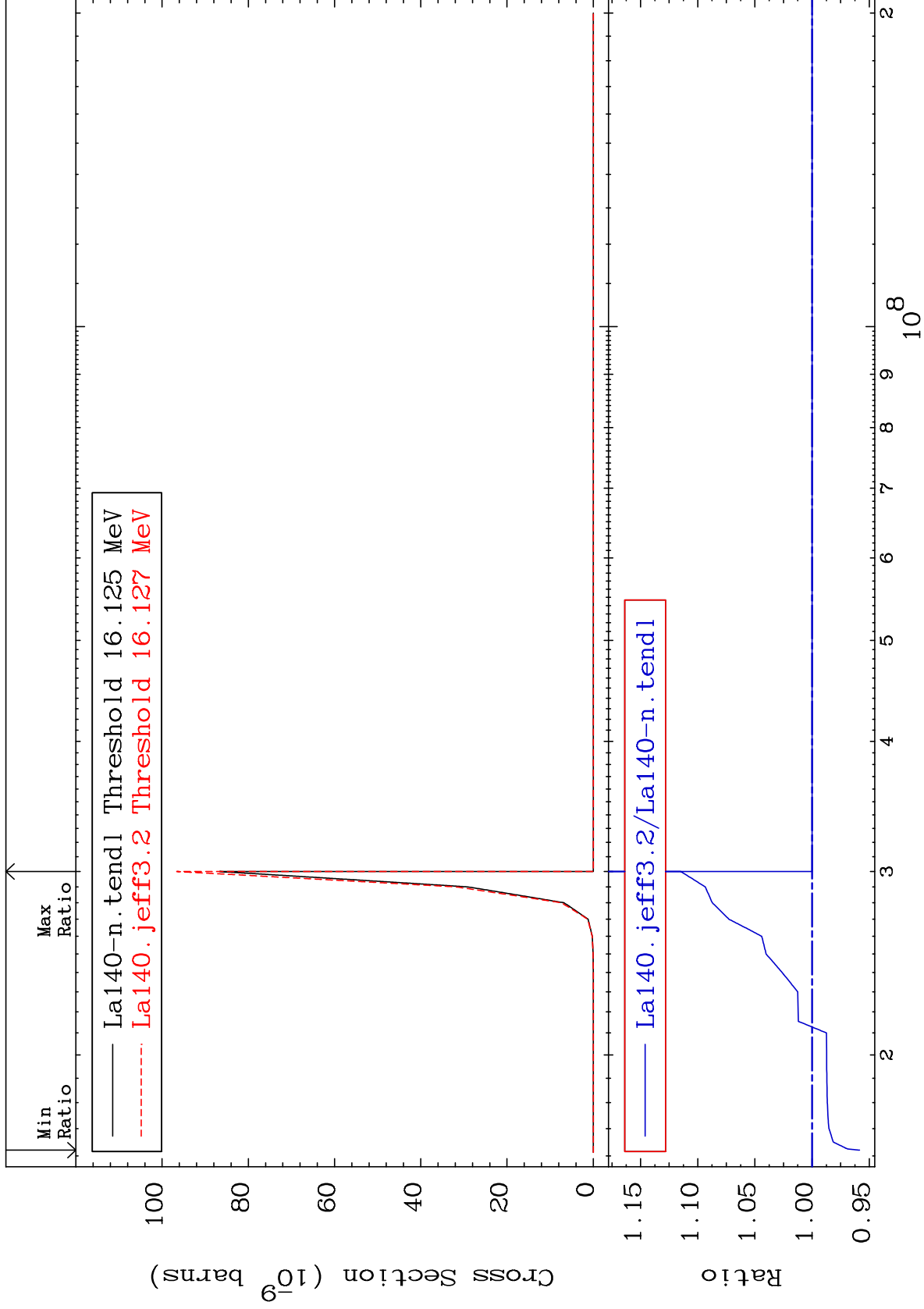
MAT 5731

(n,3n) p:56-Ba-137m2

57-La-140

Radionuclide Production Cross Section -7.450 To 0.000 %





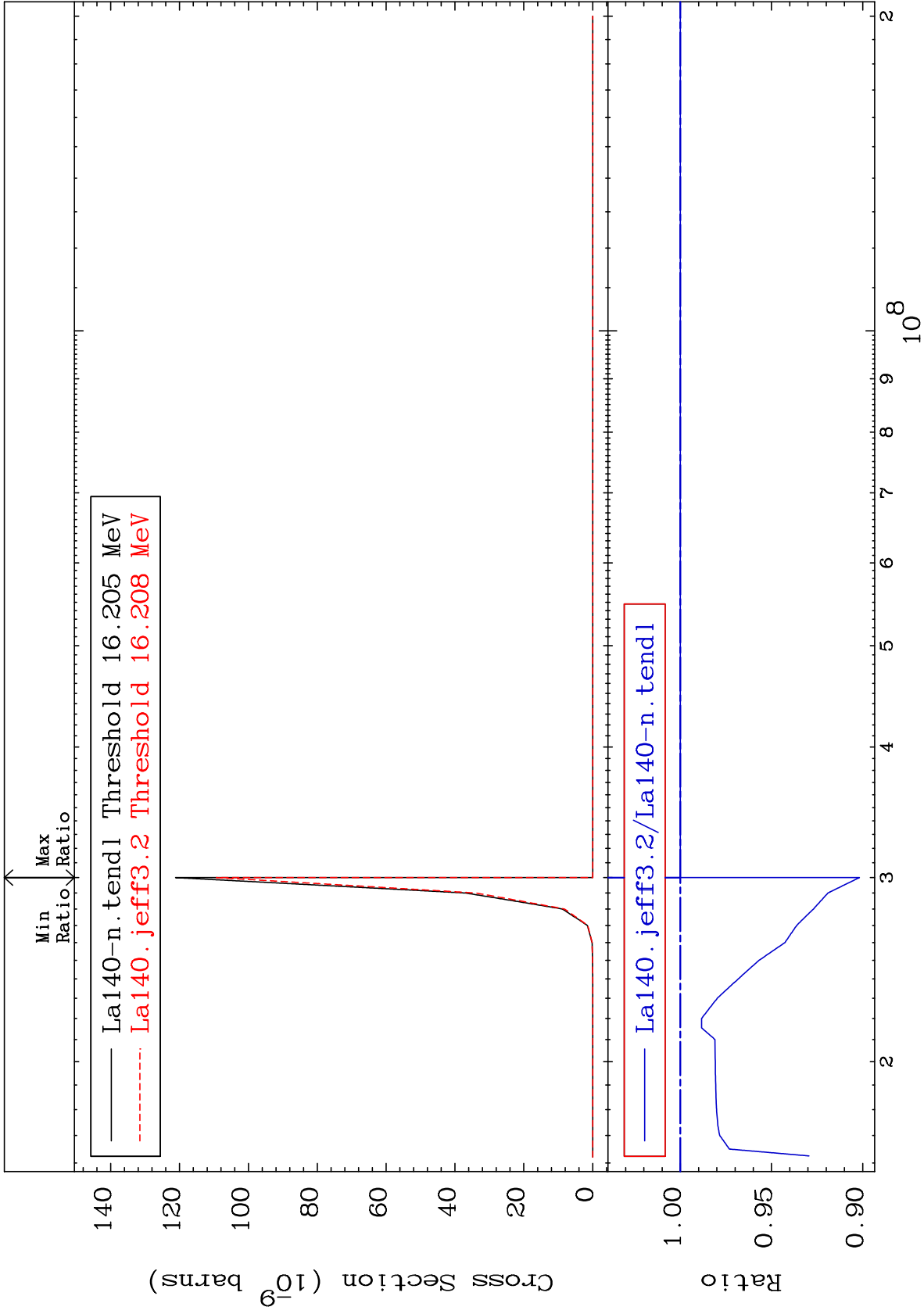
MAT 5731

(n,2n) p:55-Cs-138m3

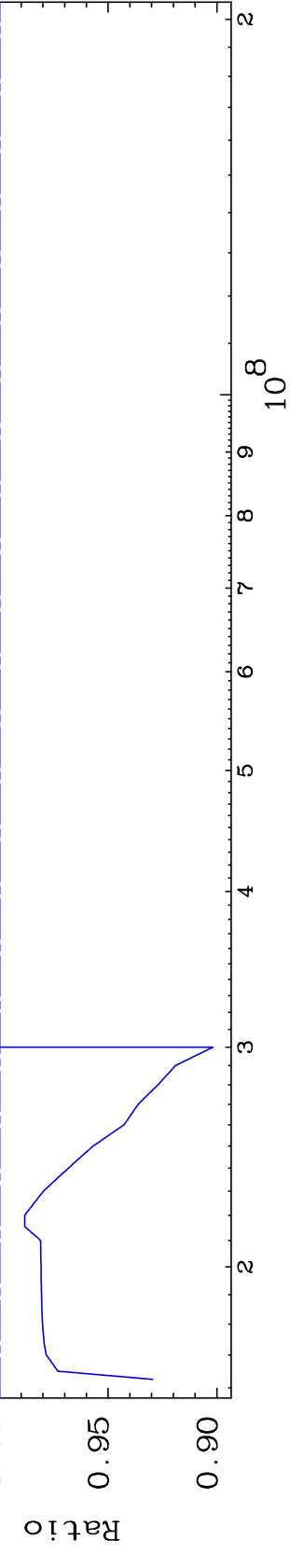
57-La-140

Radionuclide Production Cross Section

-9.821 To 0.000 %

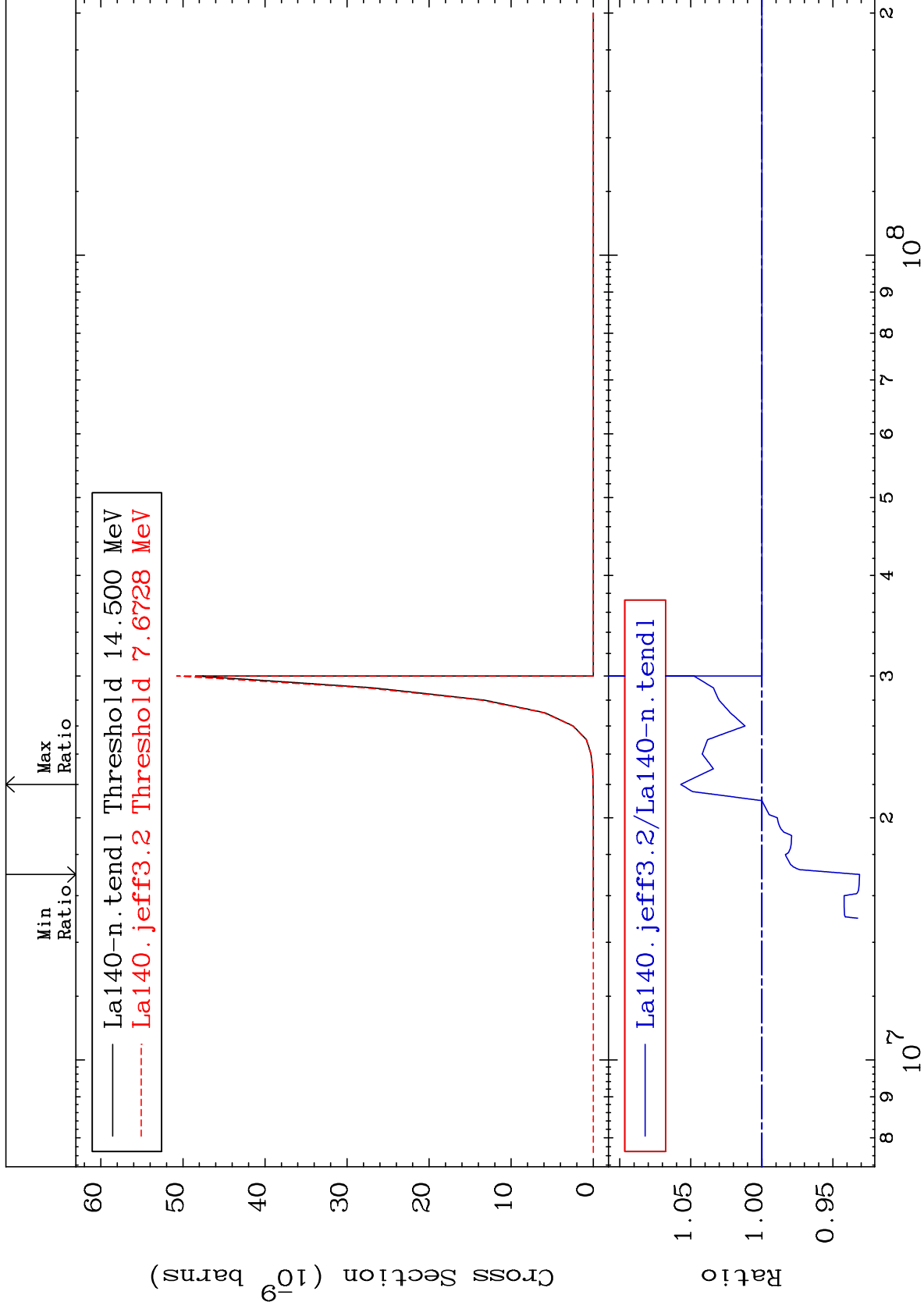


La140.jeff3.2/La140-n.tendl



MAT 5731

(n, n') p α :54-Xe-135g 57-La-140
Radionuclide Production Cross Section -6.879 To 5.707 %



94

Incident Energy (eV)

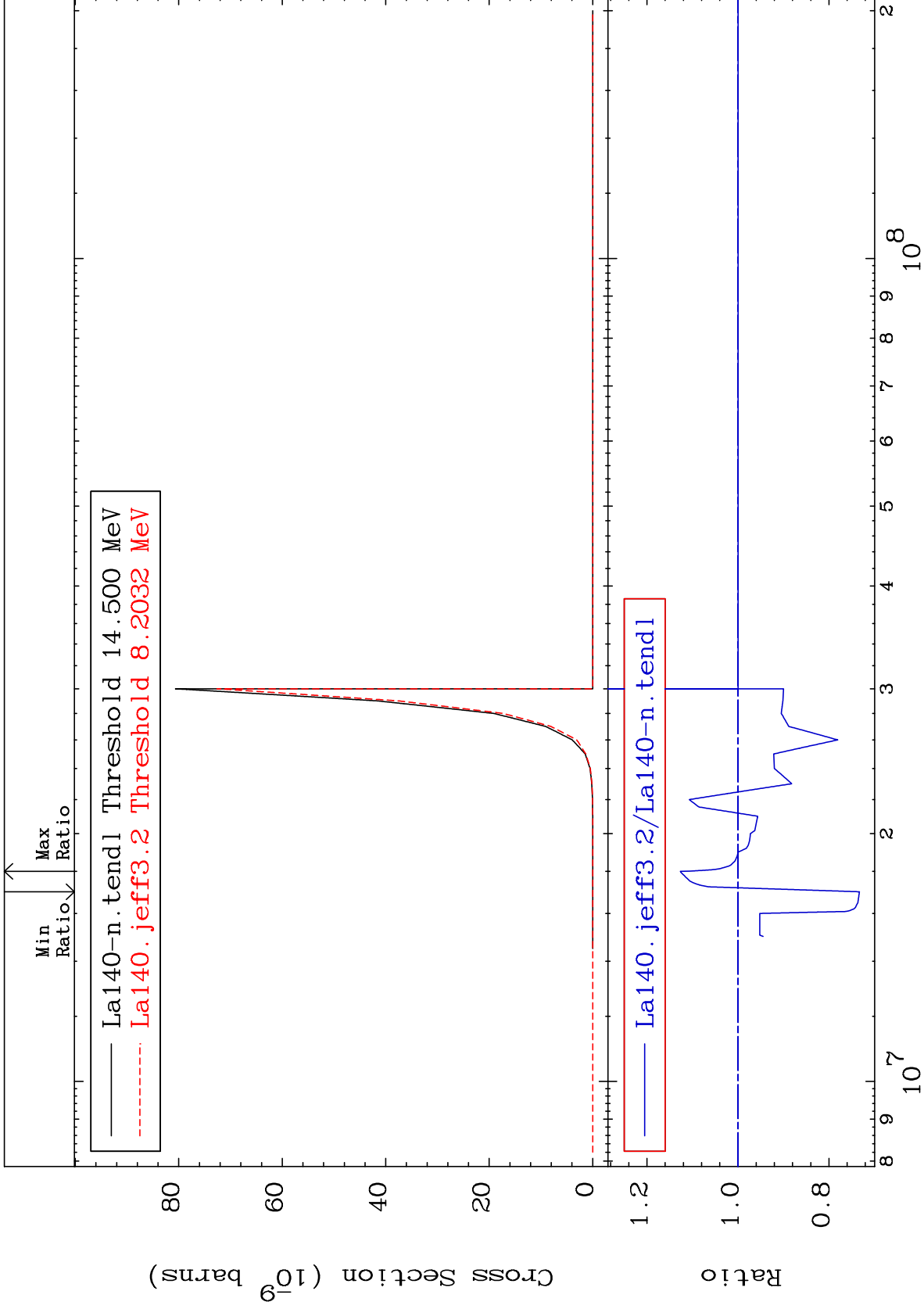
57-La-140

MAT 5731

(n, n') p α :54-Xe-135m2

57-La-140

Radionuclide Production Cross Section -26.70 To 12.67 %



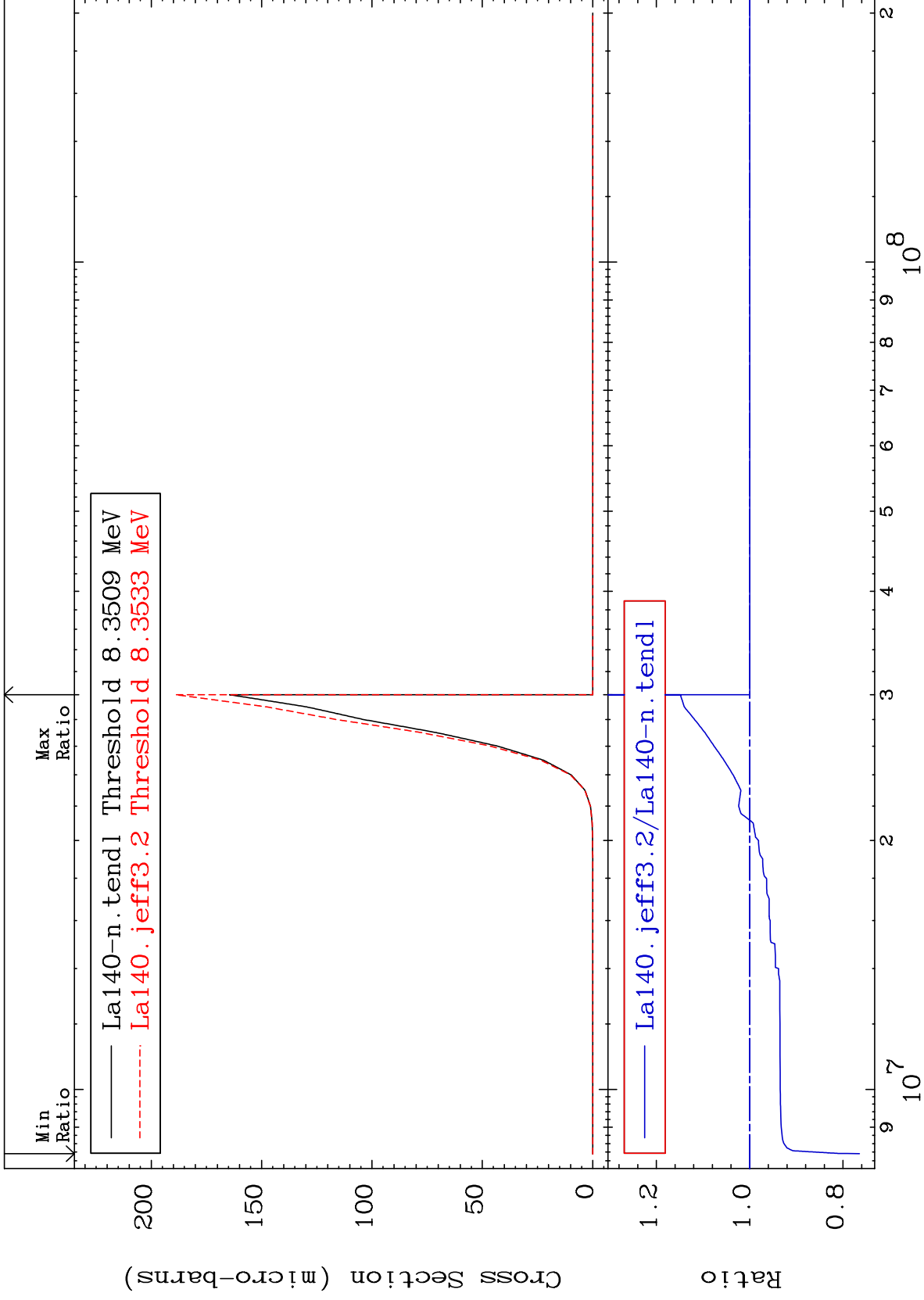
95

Incident Energy (eV)

57-La-140

MAT 5731

(n, He-3) : 55-Cs-138g 57-La-140
Radionuclide Production Cross Section -23.52 To 14.86 %



96

Incident Energy (eV)

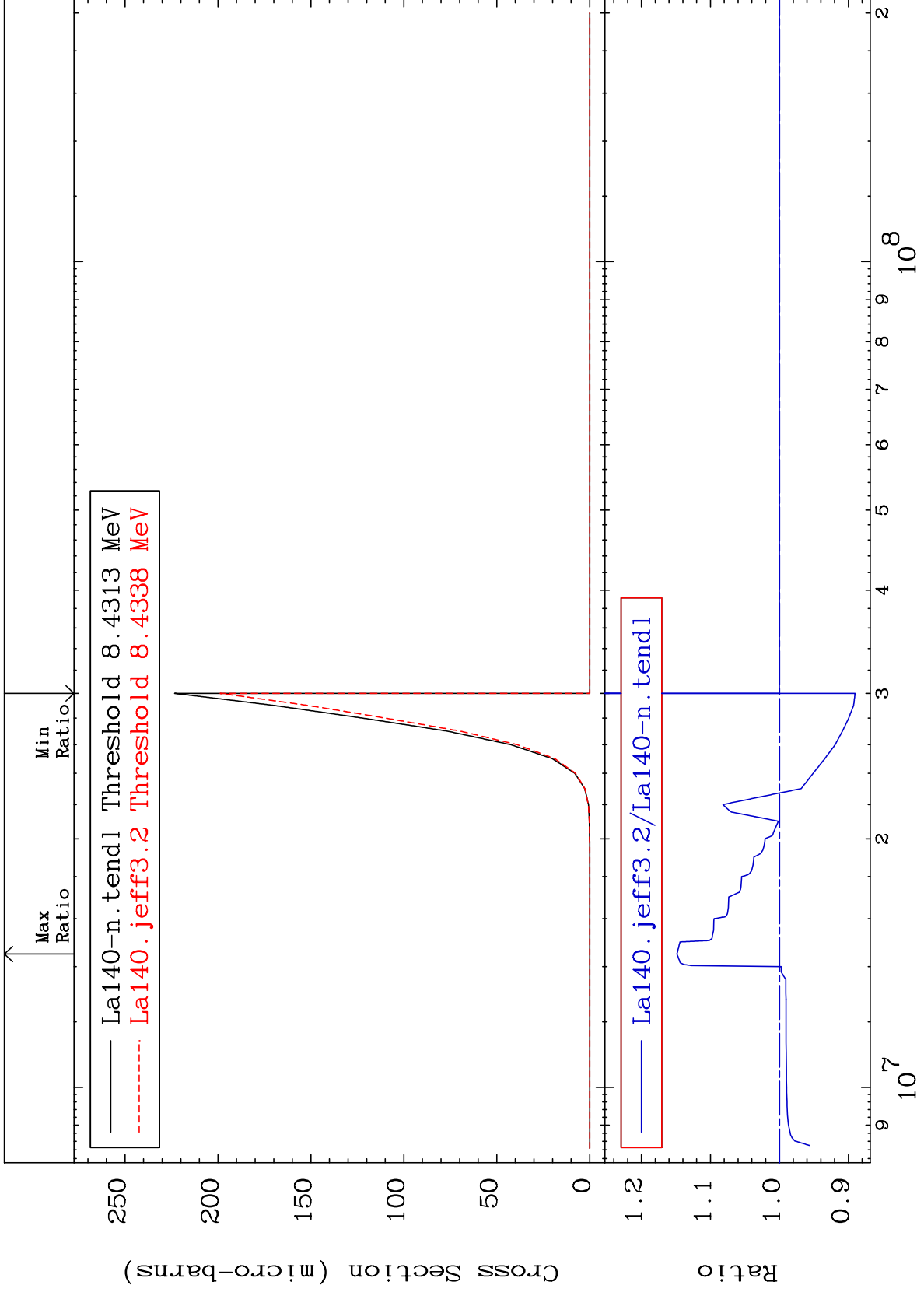
57-La-140

MAT 5731

(n,He-3):55-Cs-138m3

57-La-140

Radionuclide Production Cross Section -10.97 To 14.86 %



97

Incident Energy (eV)

57-La-140

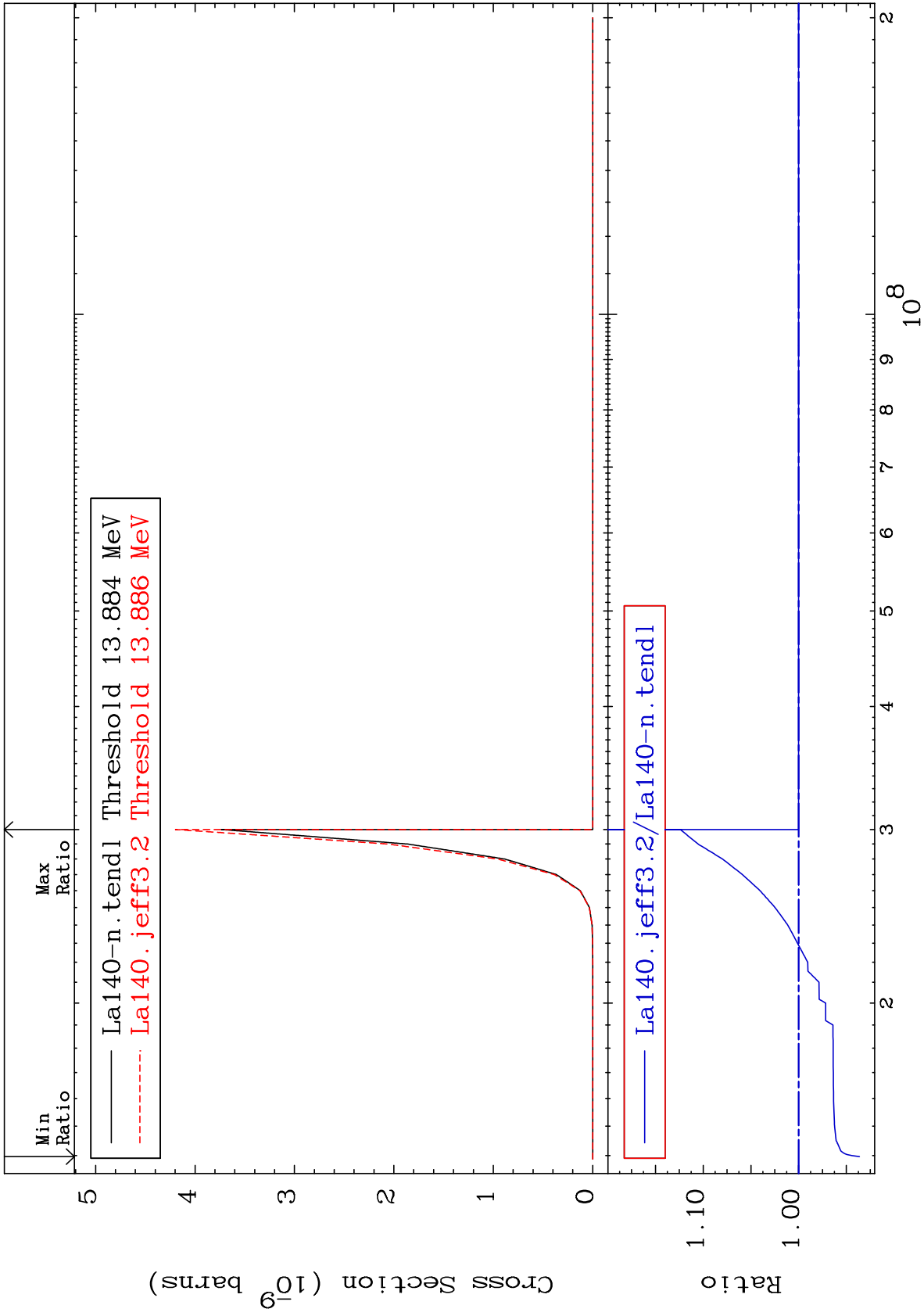
MAT 5731

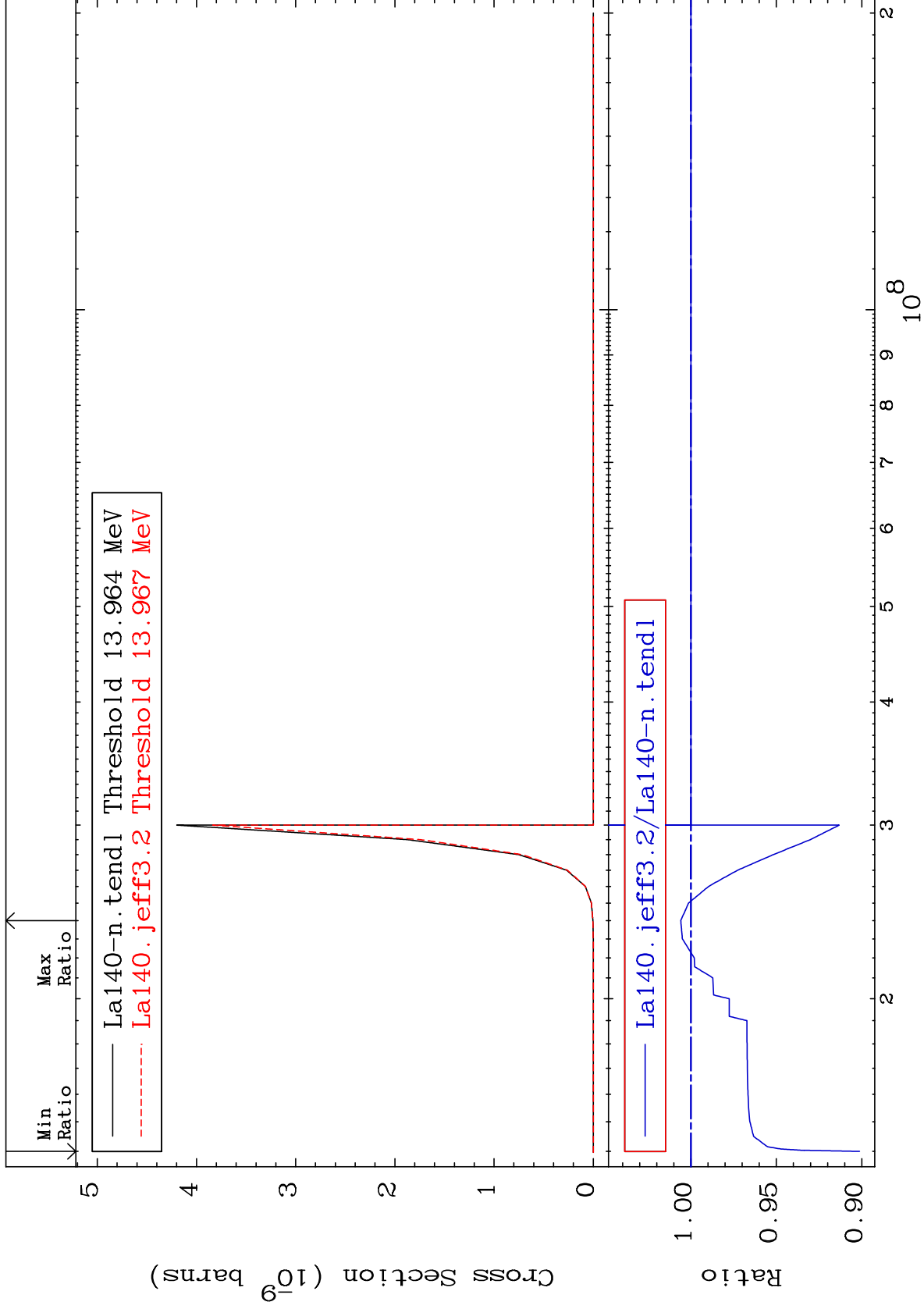
(n, p) d:55-Cs-138g

57-La-140

Radionuclide Production Cross Section

-6.367 To 12.39 %





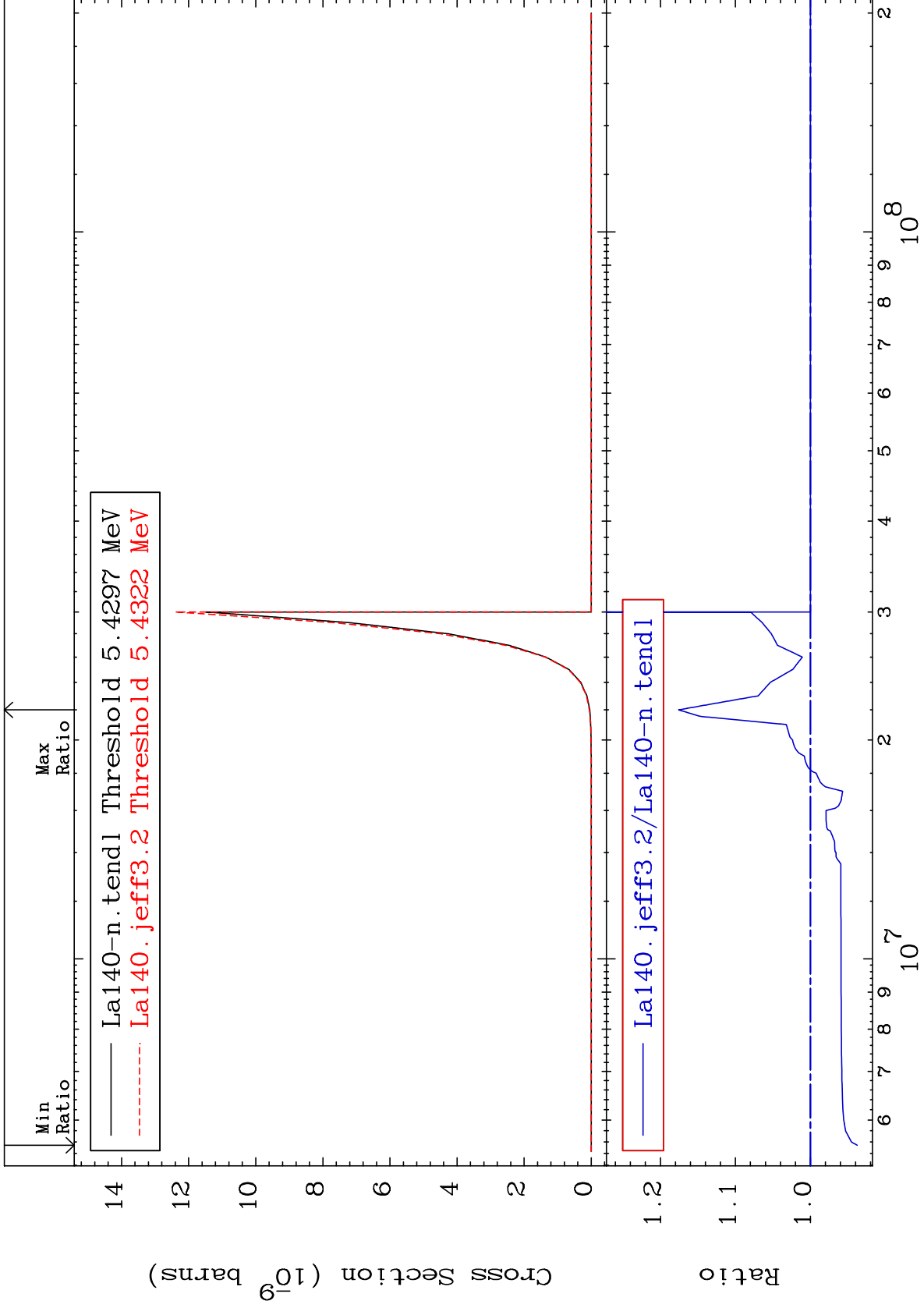
MAT 5731

(n, d) α :54-Xe-135g

57-La-140

Radionuclide Production Cross Section

-6.233 To 17.57 %



100

57-La-140

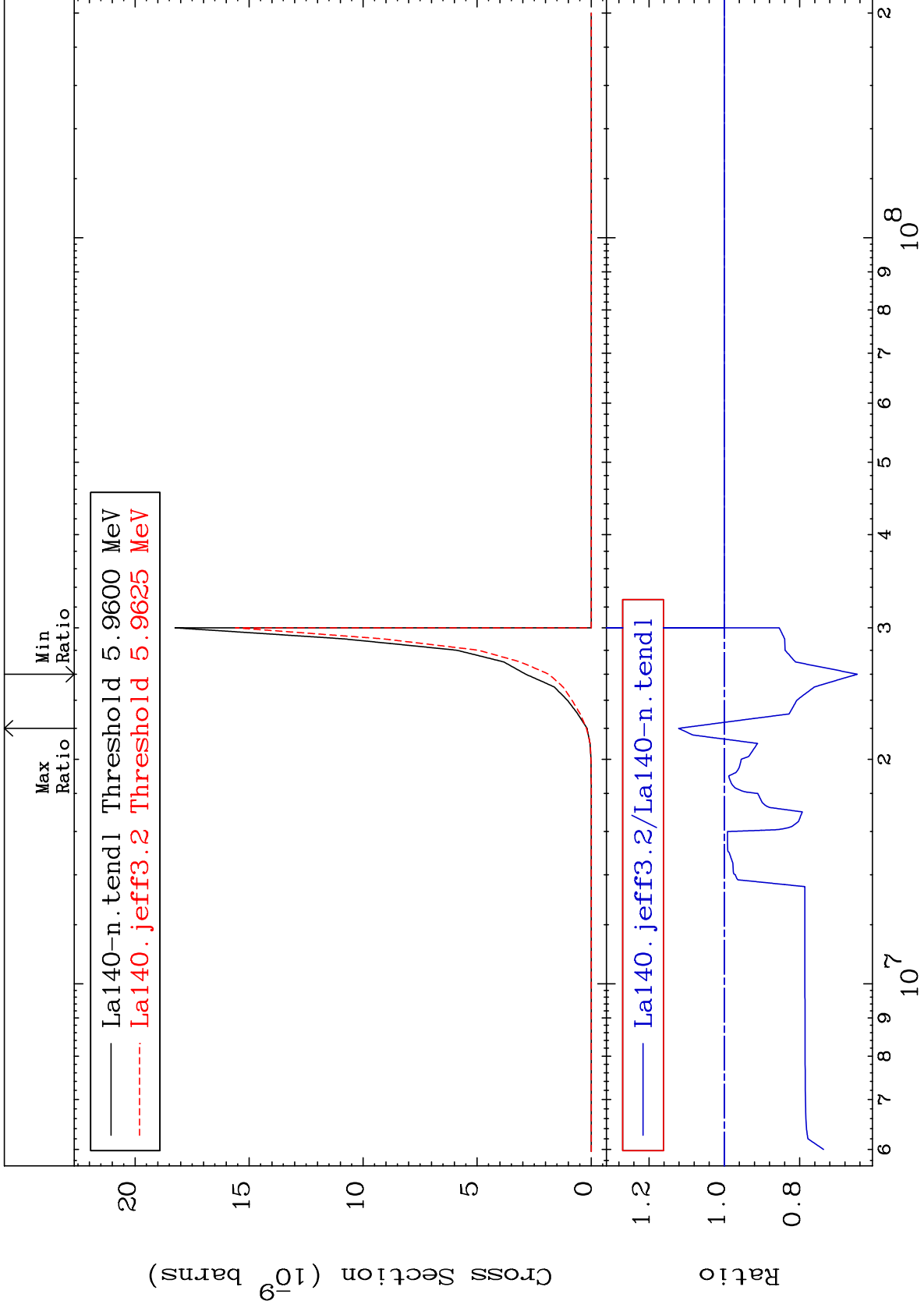
57-La-140

MAT 5731

(n, d) α :54-Xe-135m2

57-La-140

Radionuclide Production Cross Section -35.26 To 12.13 %



101

Incident Energy (eV)

57-La-140