

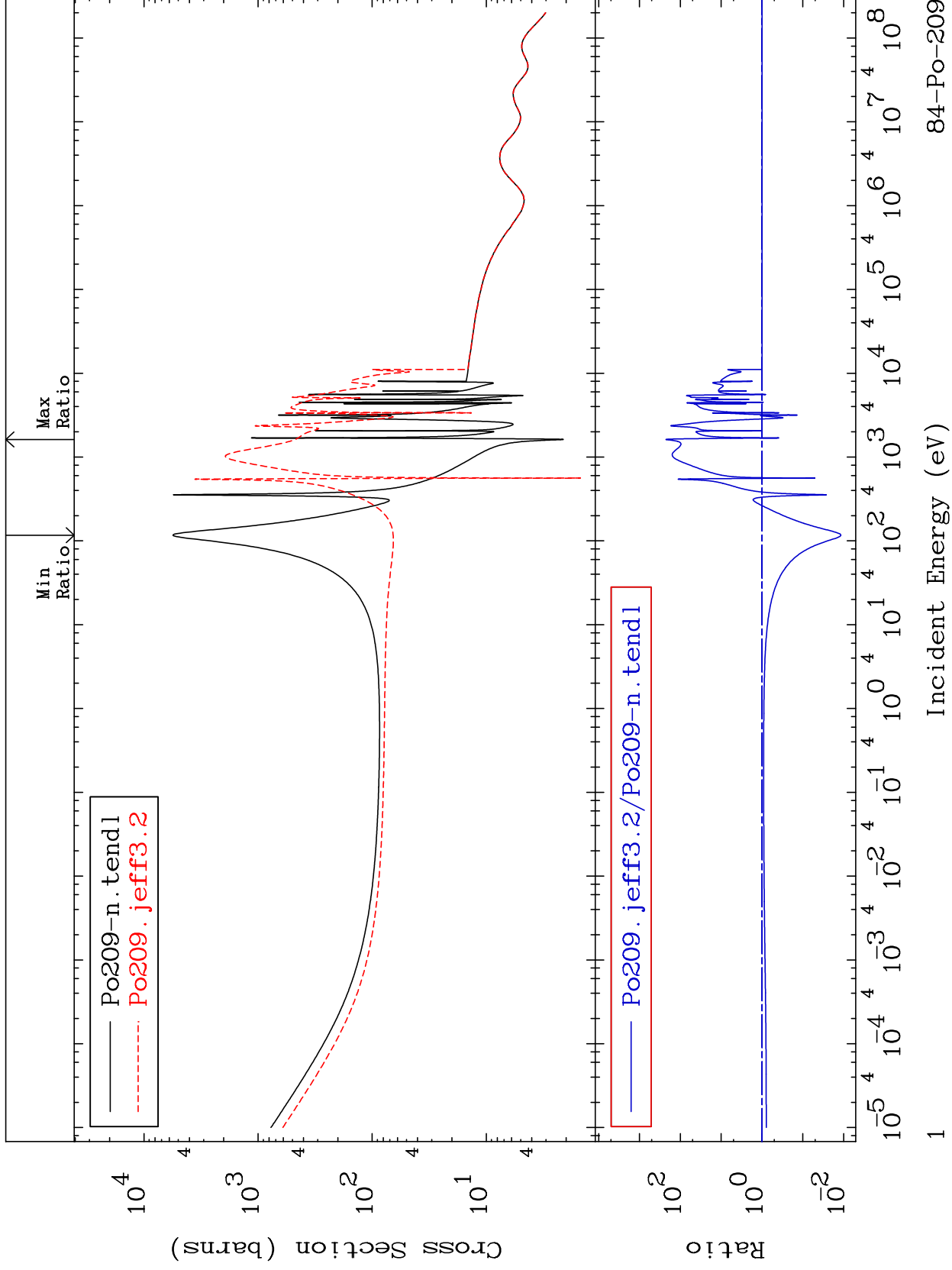
MAT 8434

Total

84-Po-209

Cross Section

-98.83 To 9999. %



Incident Energy (eV)

84-Po-209

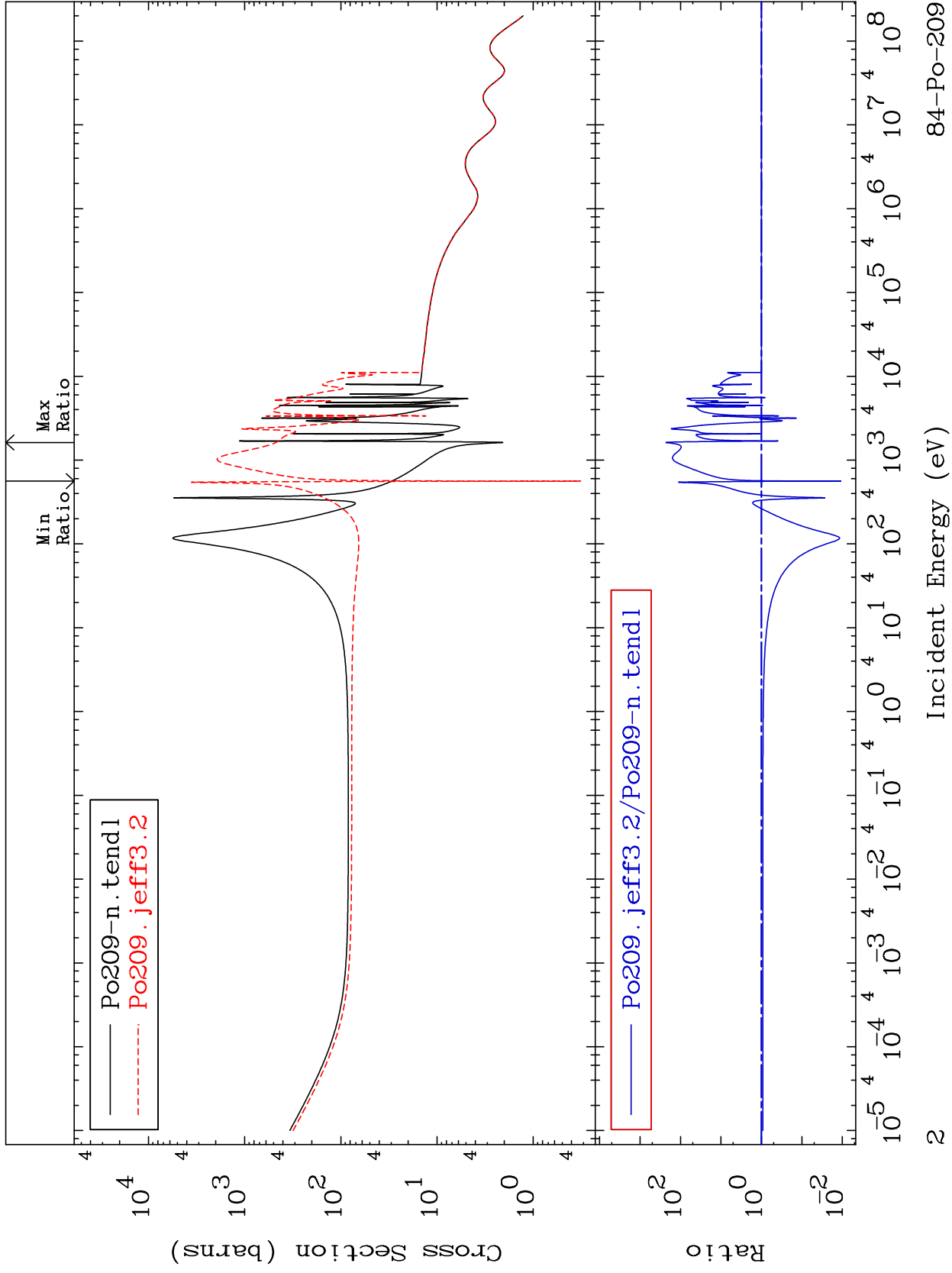
MAT 8434

Elastic

84-Po-209

Cross Section

-98.91 To 9999. %



2

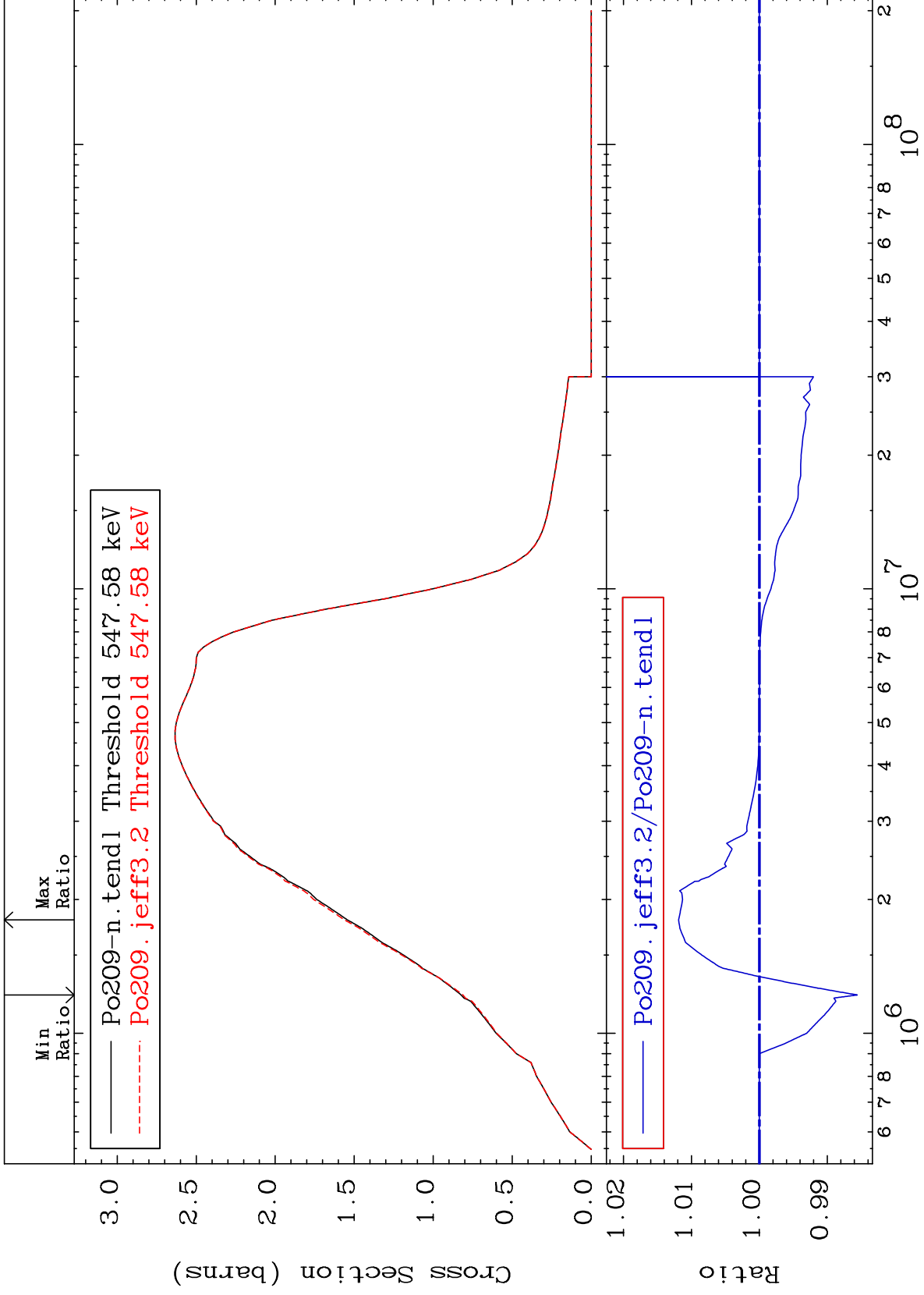
Incident Energy (eV)

84-Po-209

MAT 8434

Inelastic  
Cross Section

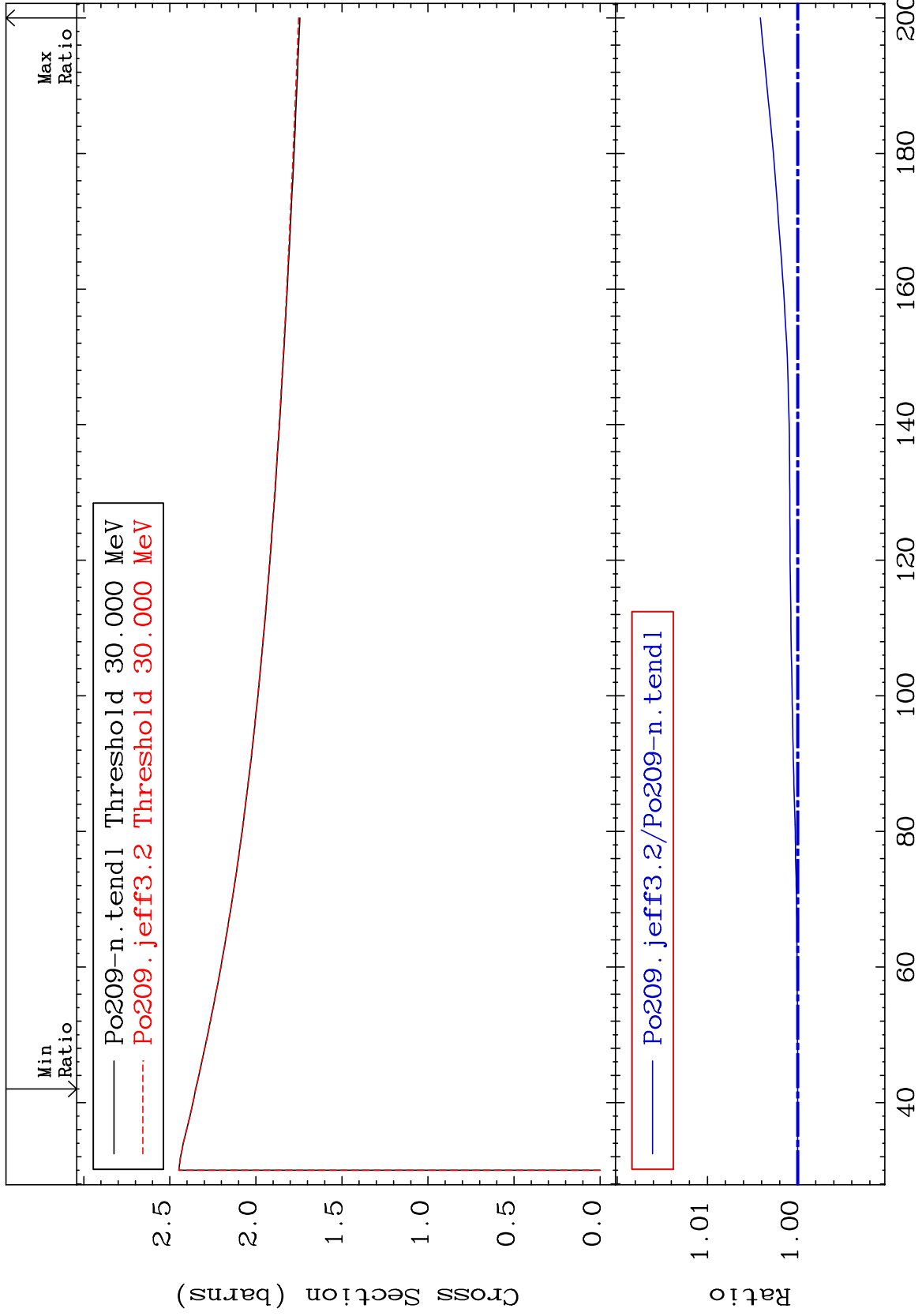
84-Po-209  
-1.442 To 1.188 %



MAT 8434

(n, remainder)  
Cross Section

84-Po-209  
To 0.414 %



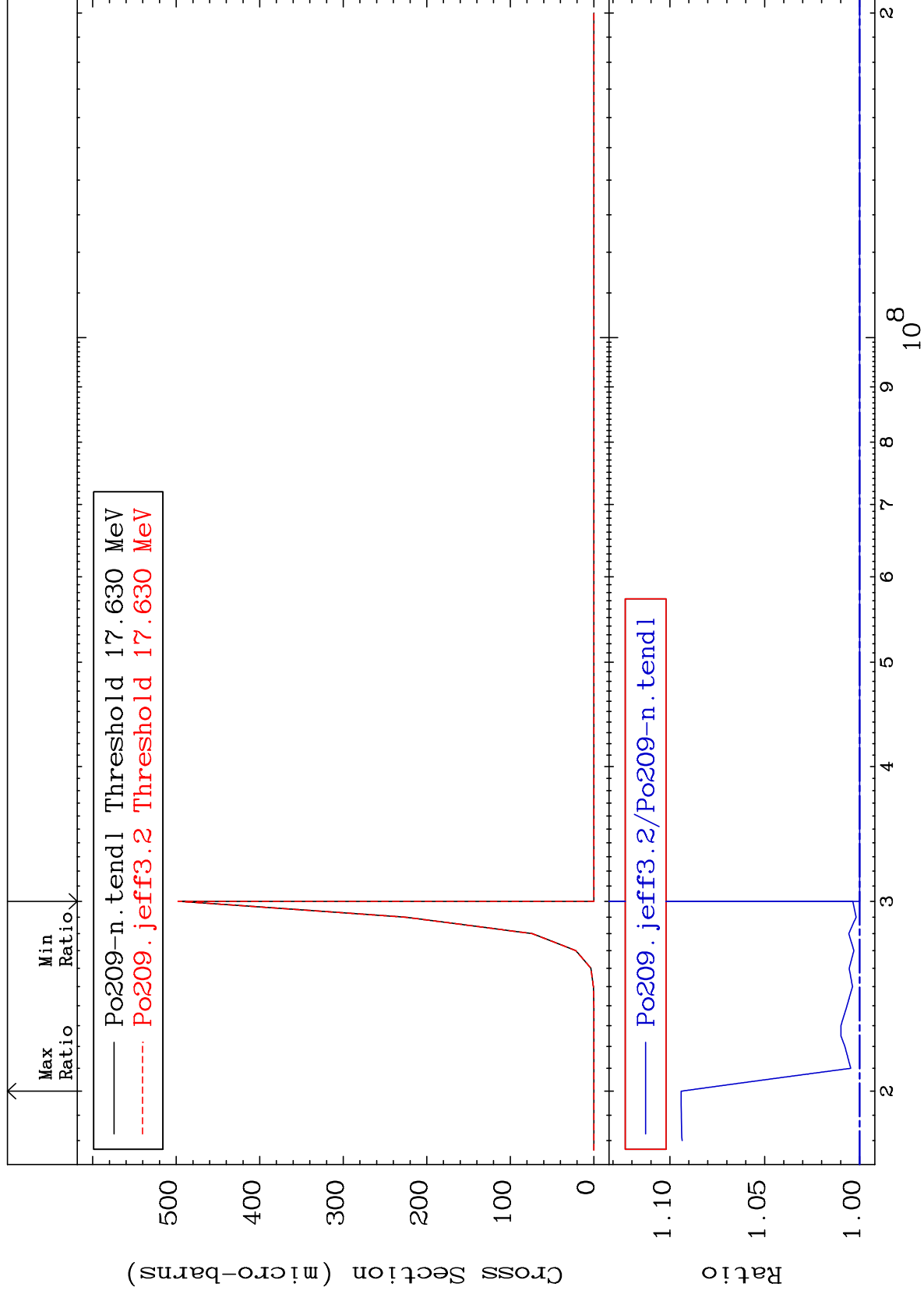
MAT 8434

(n,2n) d

84-Po-209

Cross Section

0.000 To 9.405 %



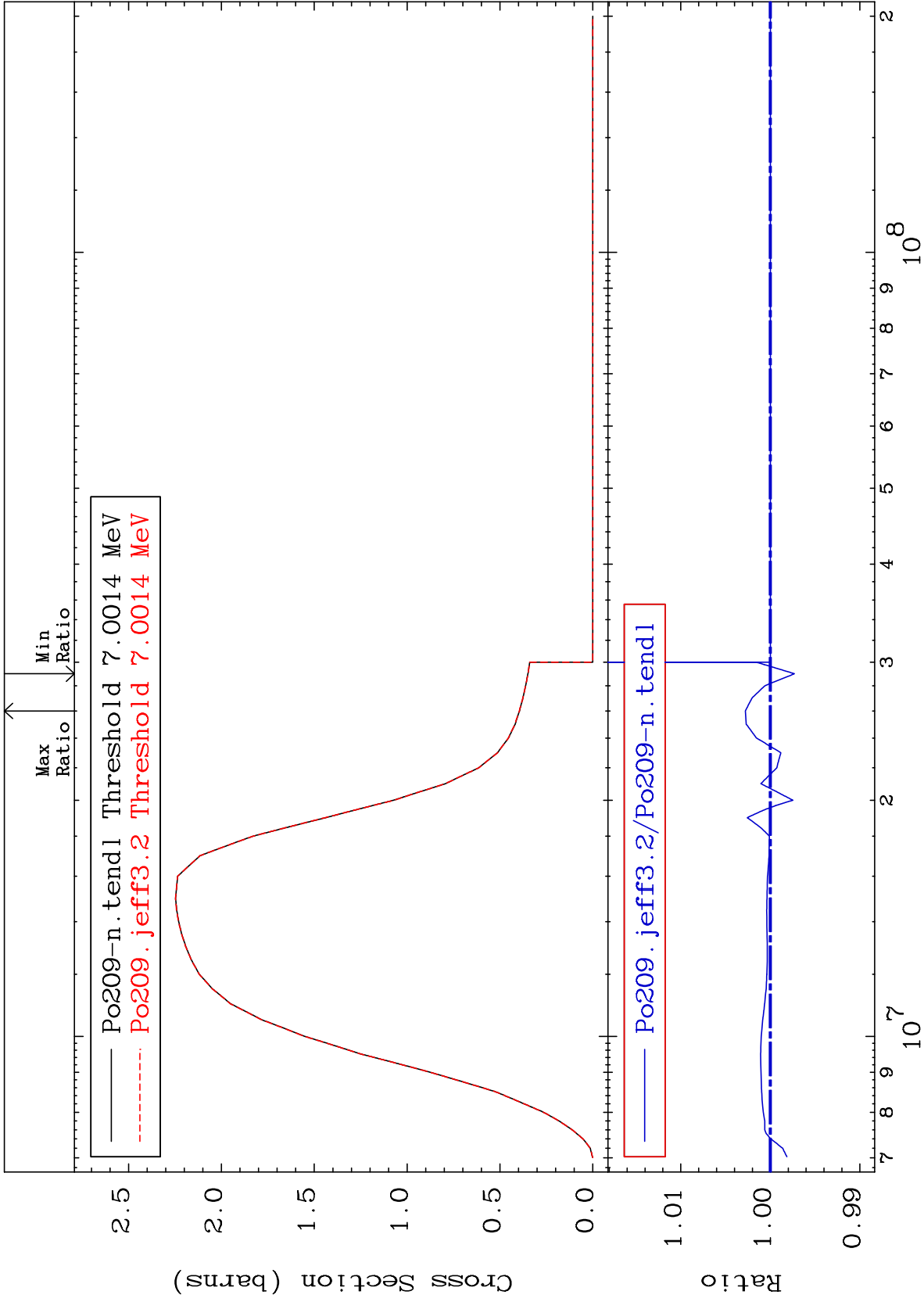
MAT 8434

(n,2n)

84-Po-209

Cross Section

-0.269 To 0.279 %



6

Incident Energy (eV)

84-Po-209

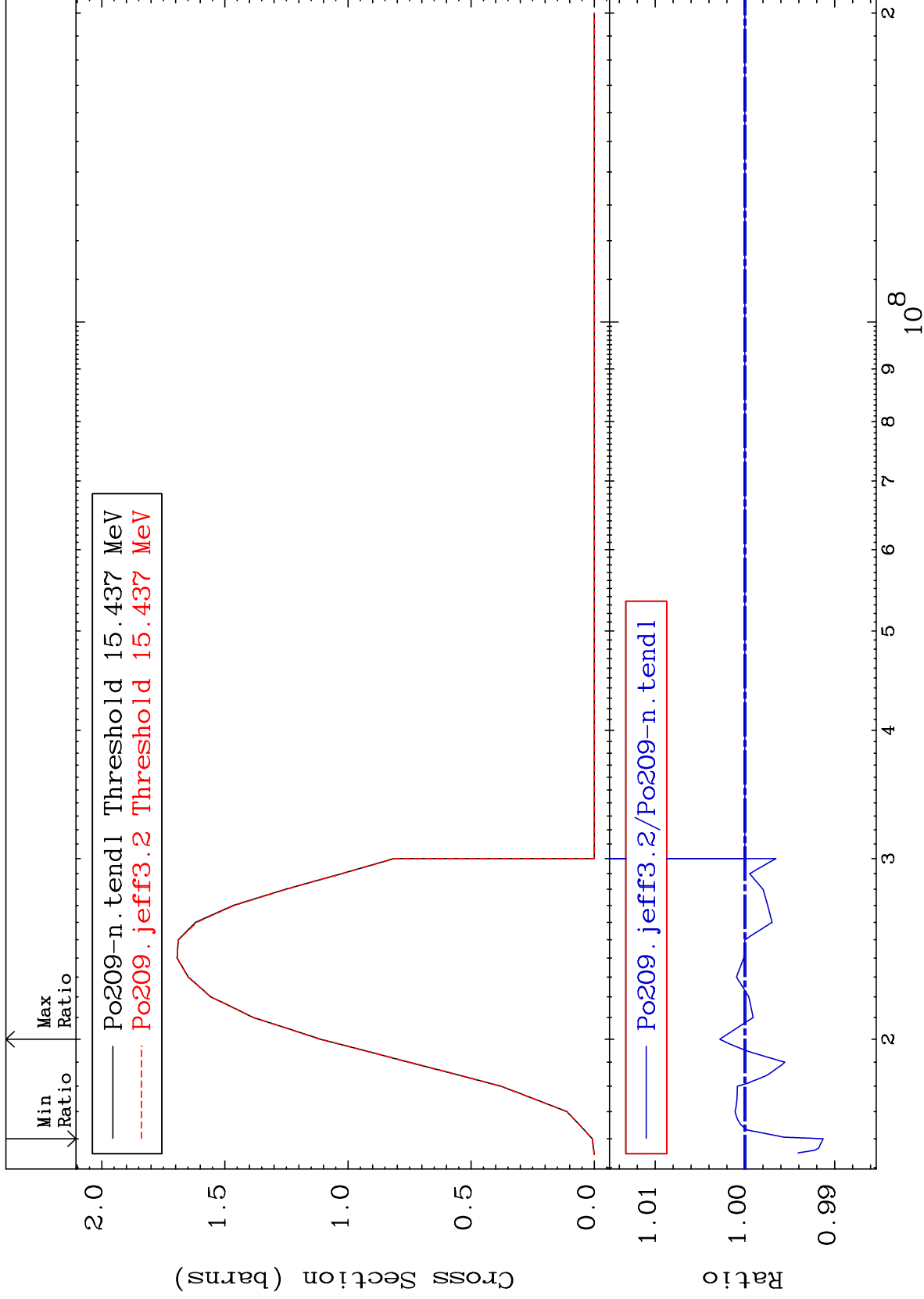
MAT 8434

(n,3n)

84-Po-209

Cross Section

-0.870 To 0.280 %



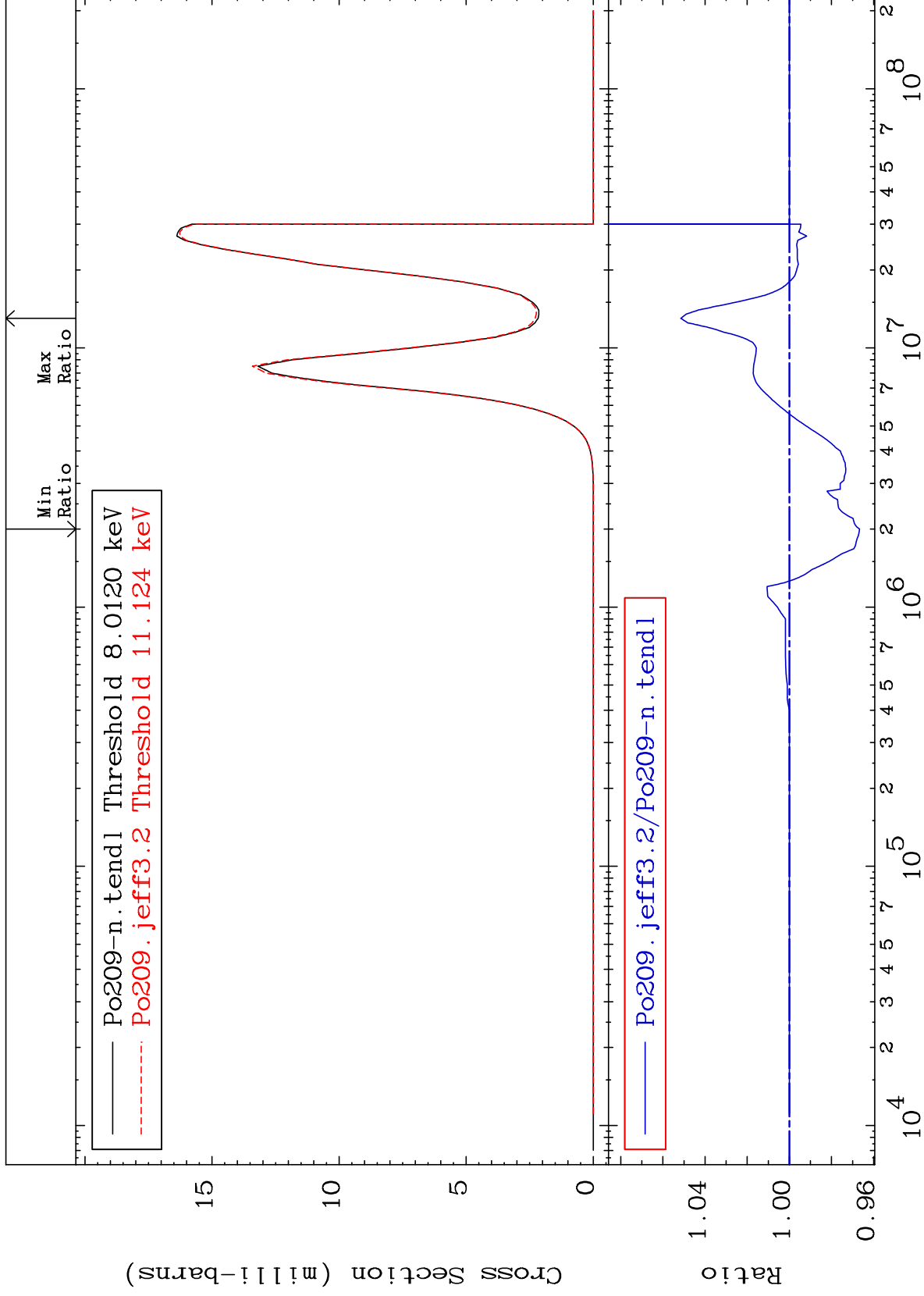
MAT 8434

$(n, n') \alpha$

84-Po-209

Cross Section

-3.331 To 5.153 %



8

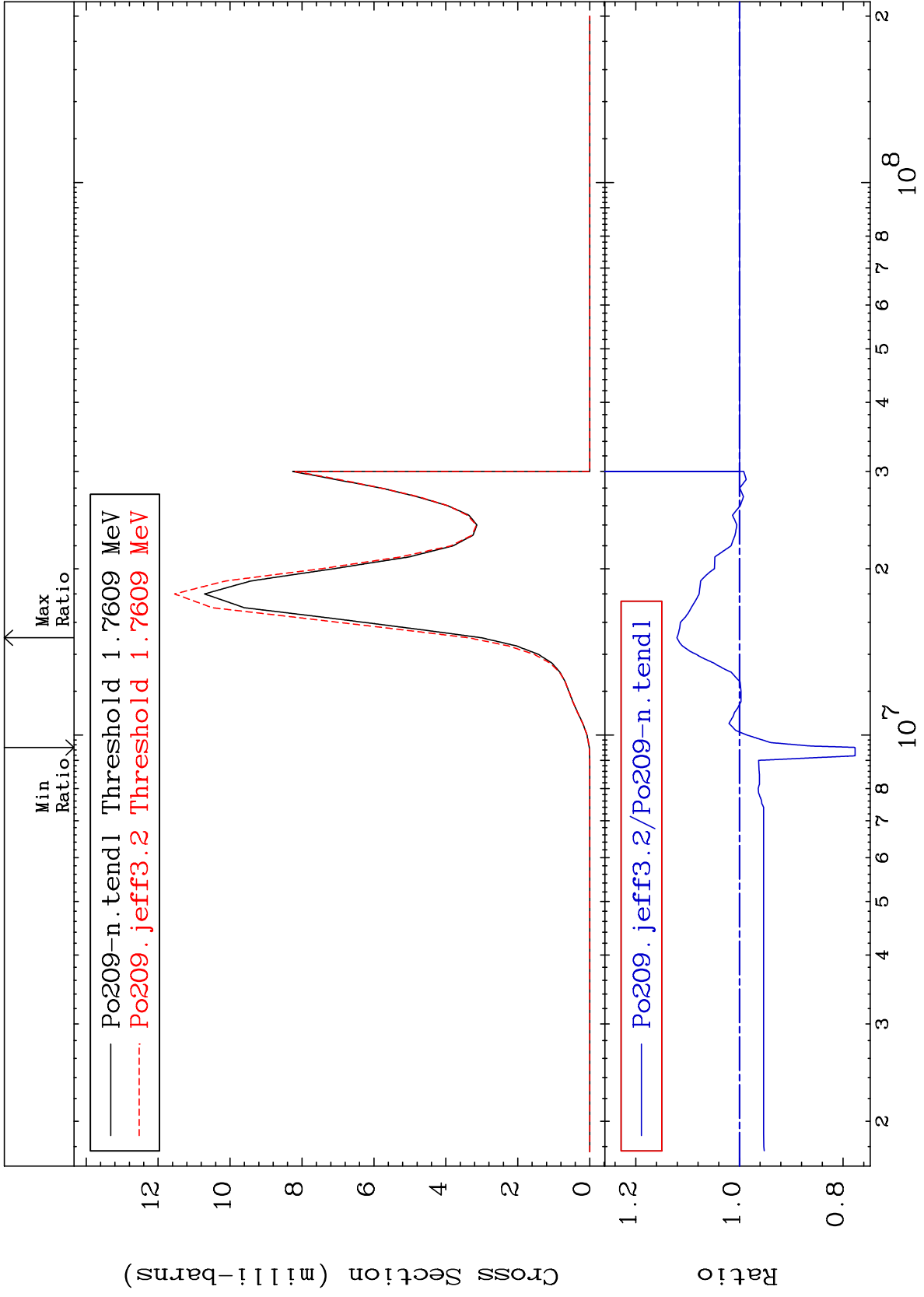
Incident Energy (eV)

84-Po-209



MAT 8434

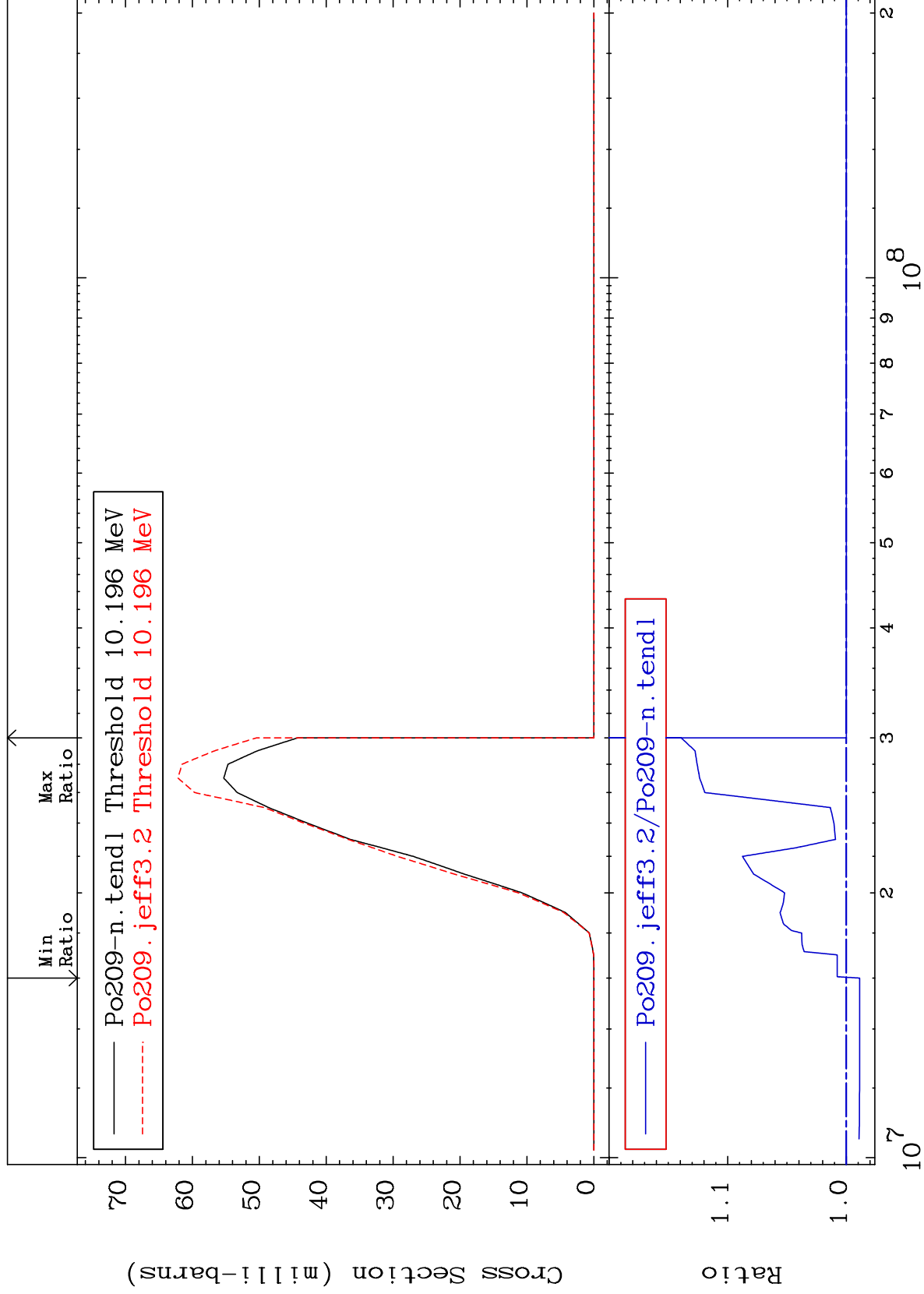
(n,2n)  $\alpha$  Cross Section  
84-Po-209  
-22.33 To 12.07 %



MAT 8434

(n,3n)  $\alpha$   
Cross Section

84-Po-209  
-1.123 To 13.92 %



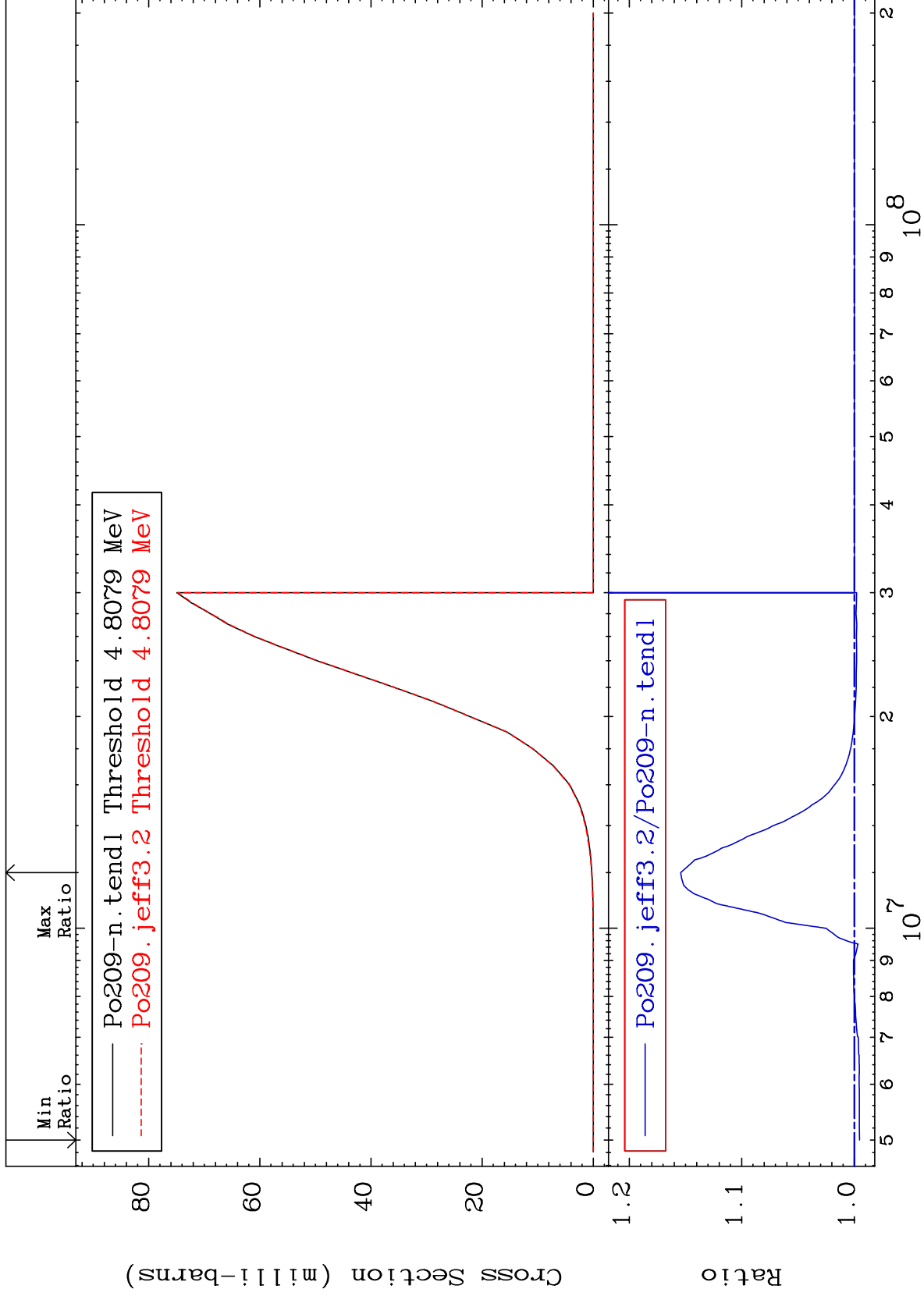
84-Po-209

Incident Energy (eV)

MAT 8434

(n, n') p  
Cross Section

84-Po-209  
-0.462 To 15.42 %



11

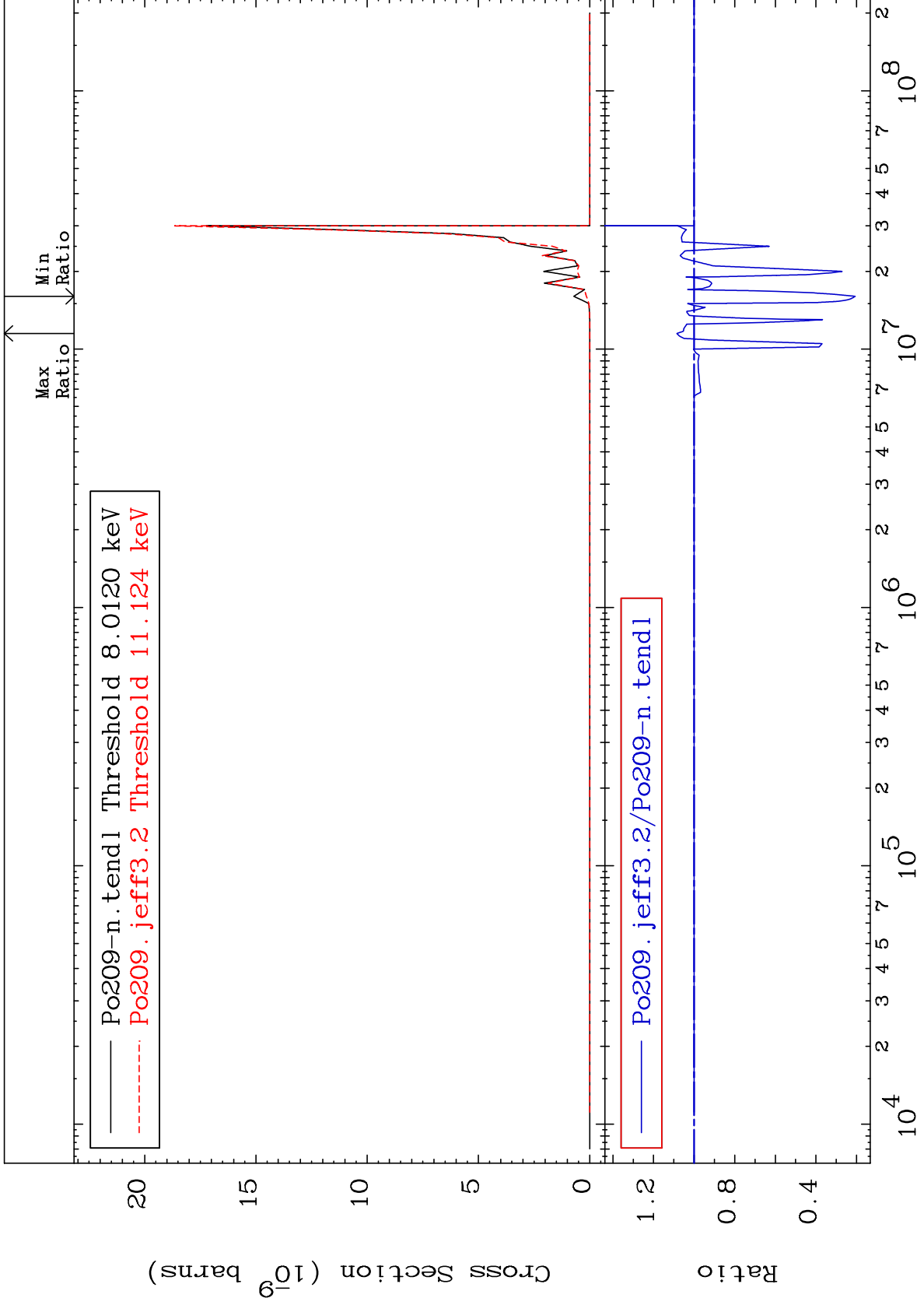
Incident Energy (eV)

84-Po-209

MAT 8434

(n, n')  $2\alpha$   
Cross Section

84-Po-209  
-79.29 To 8.473 %



12

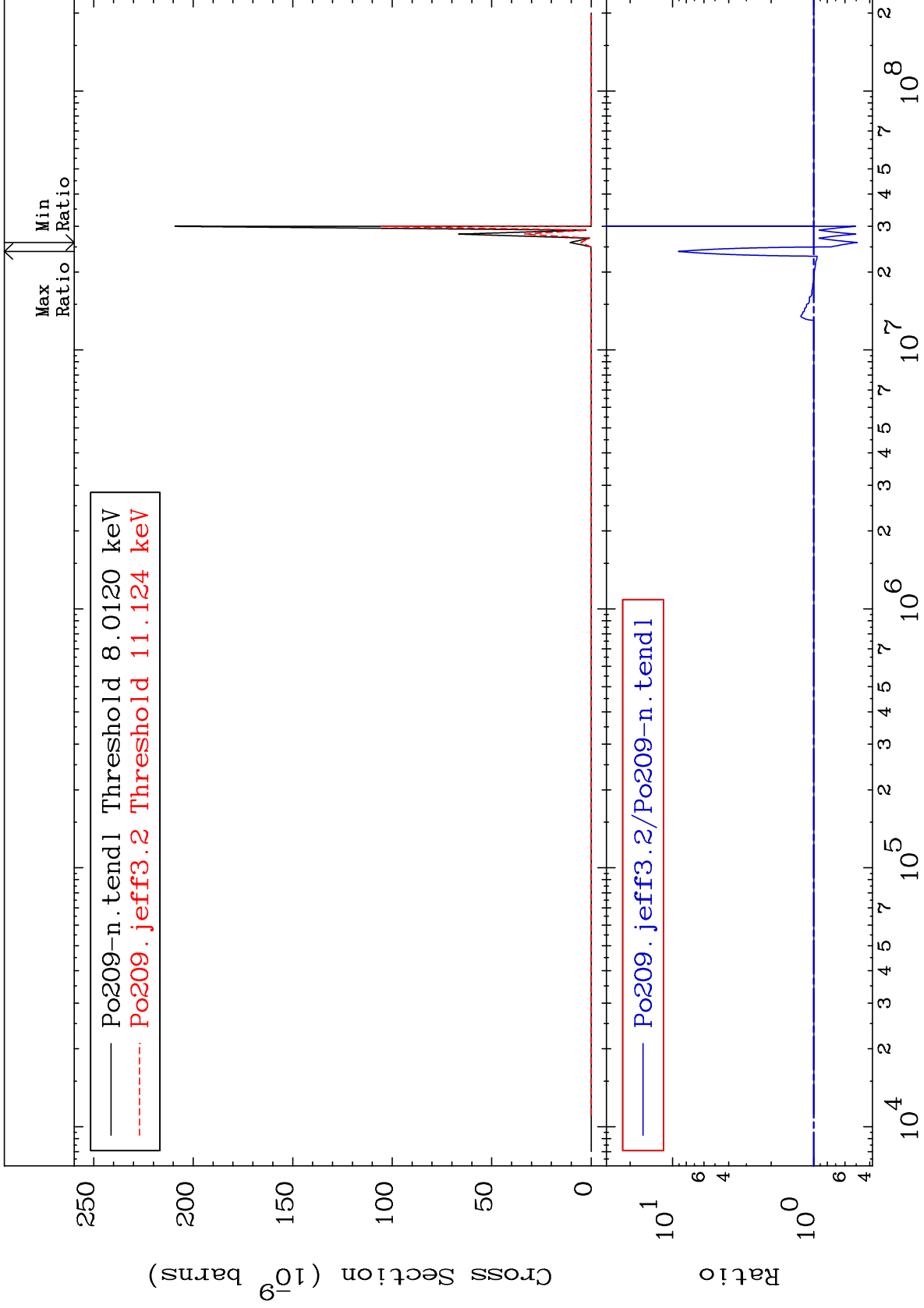
Incident Energy (eV)

84-Po-209

MAT 8434

(n,2n) 2α  
Cross Section

84-Po-209  
-50.89 To 805.8 %



13

84-Po-209

84-Po-209

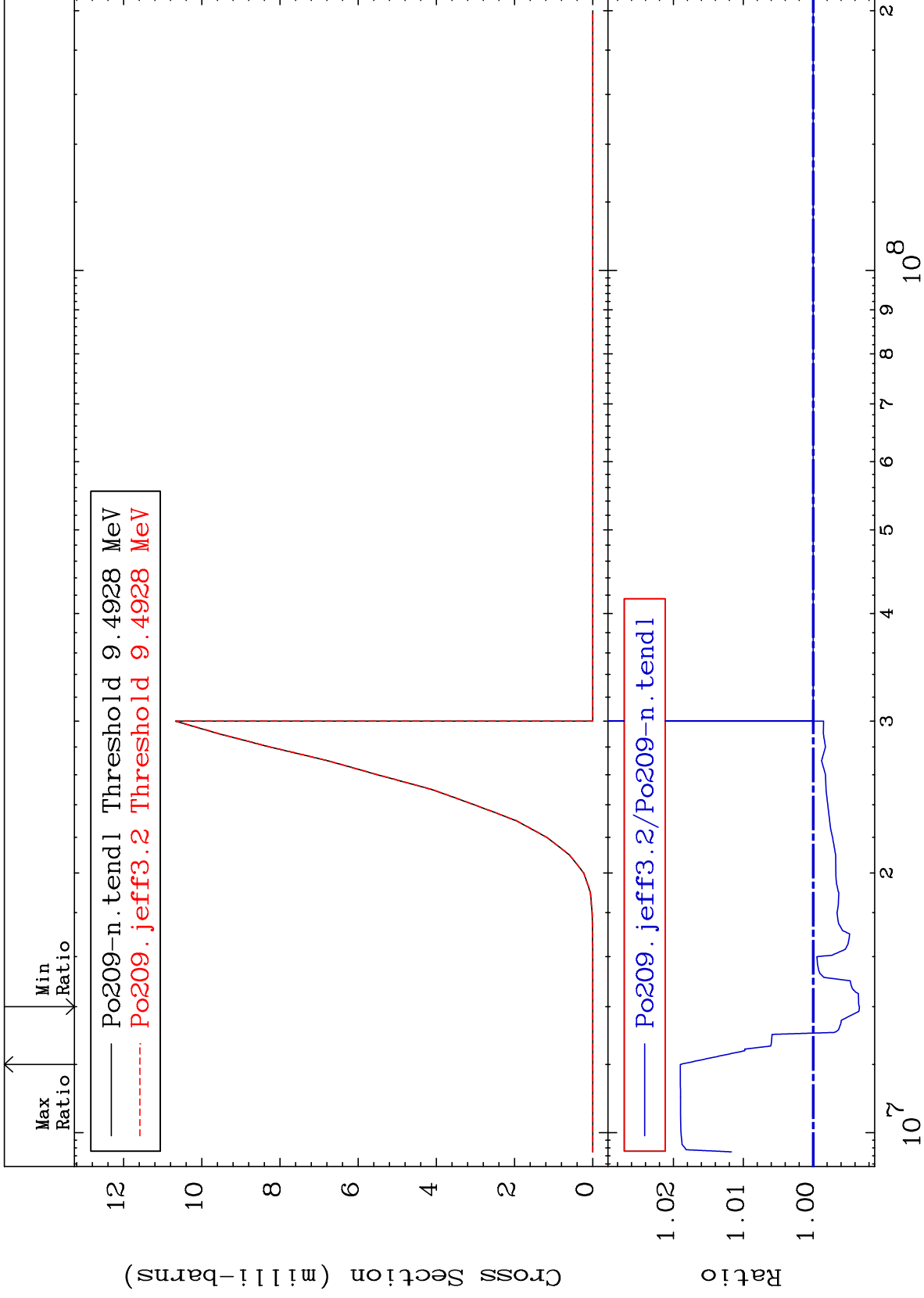
MAT 8434

(n,n') d

84-Po-209

Cross Section

-0.661 To 1.902 %



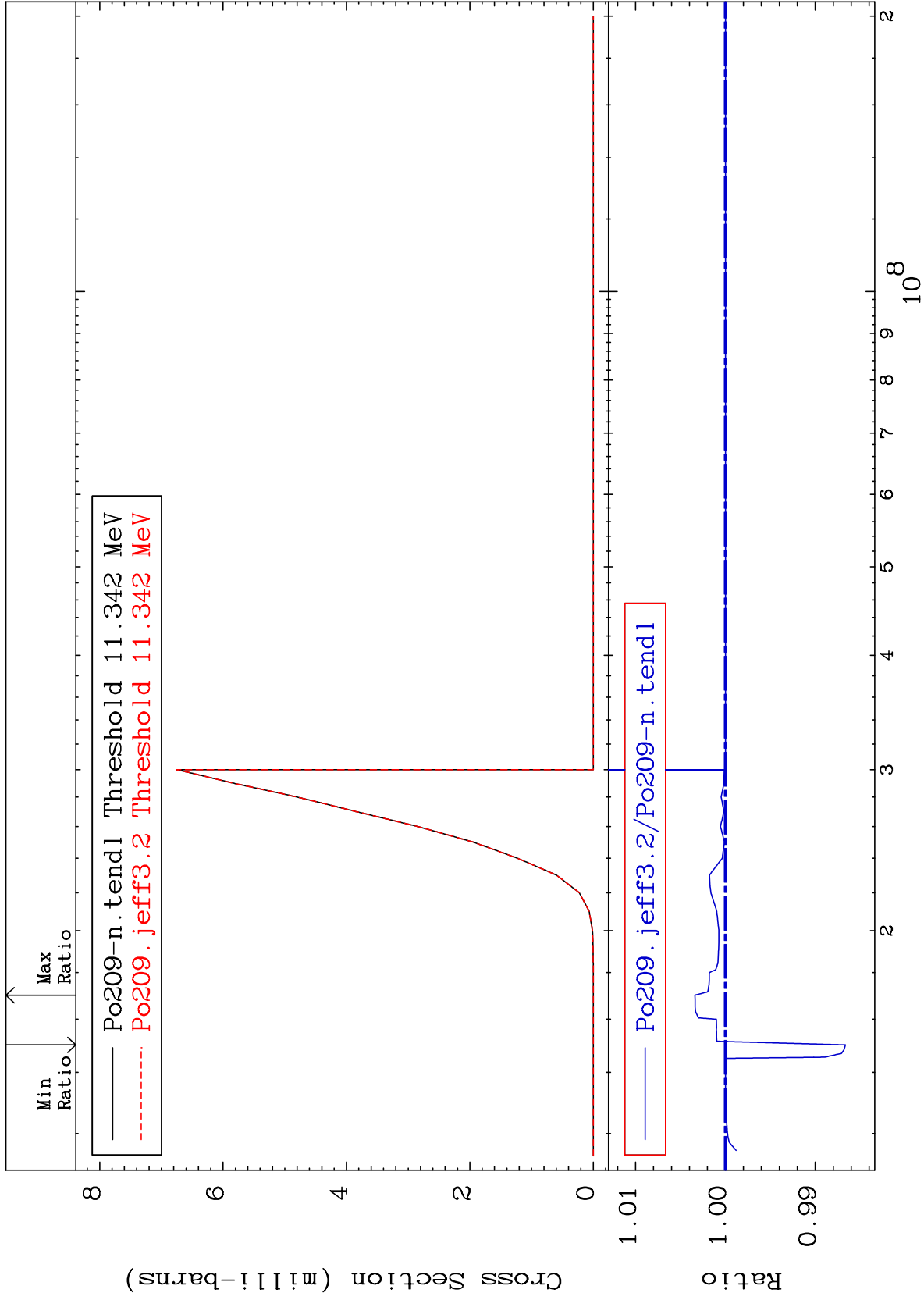
14

Incident Energy (eV)

84-Po-209

Cross Section

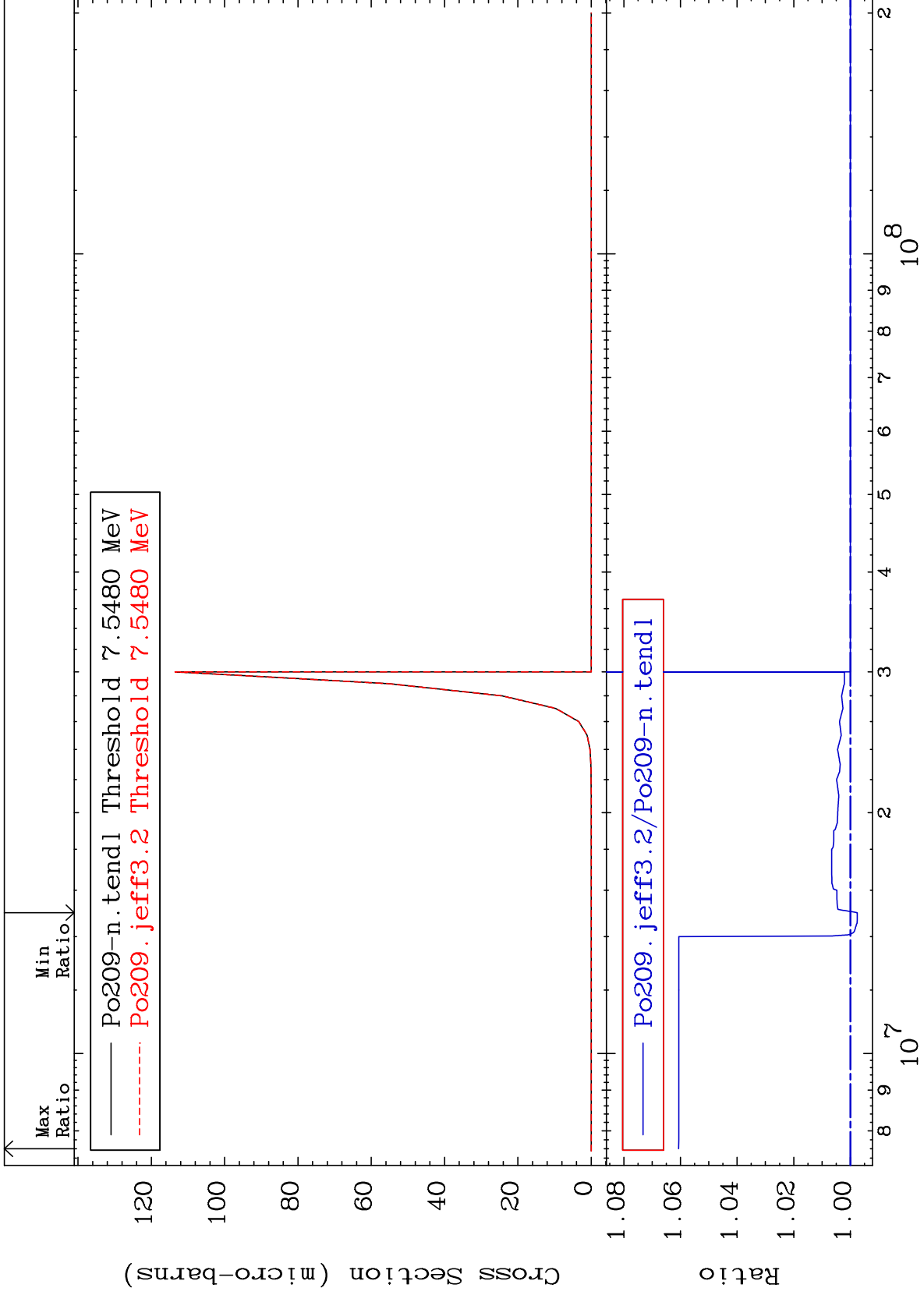
-1.335 To 0.339 %



MAT 8434

(n, n') He-3  
Cross Section

84-Po-209  
-0.243 To 6.064 %



16

Incident Energy (eV)

84-Po-209



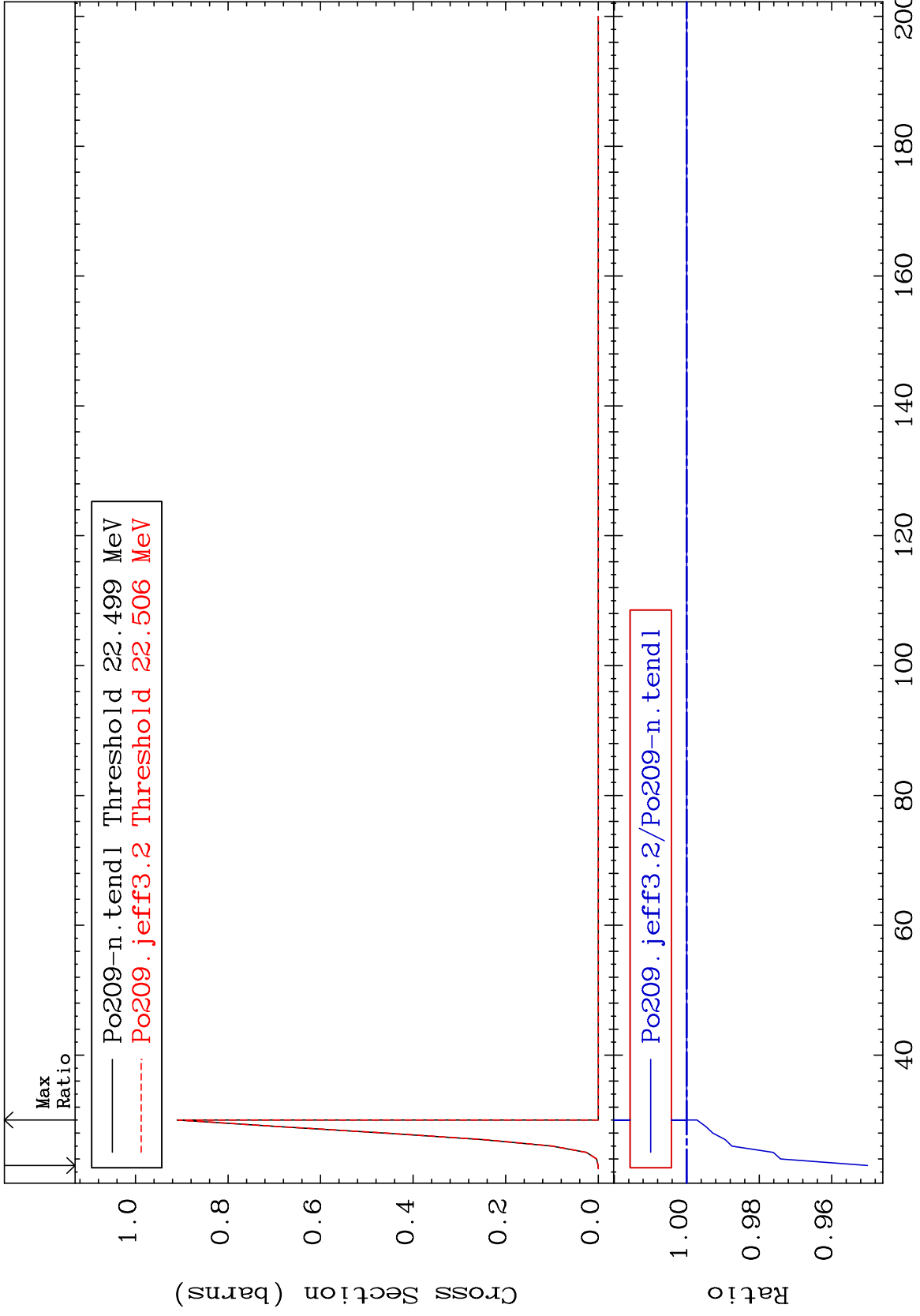
MAT 8434

(n,4n)

84-Po-209

Cross Section

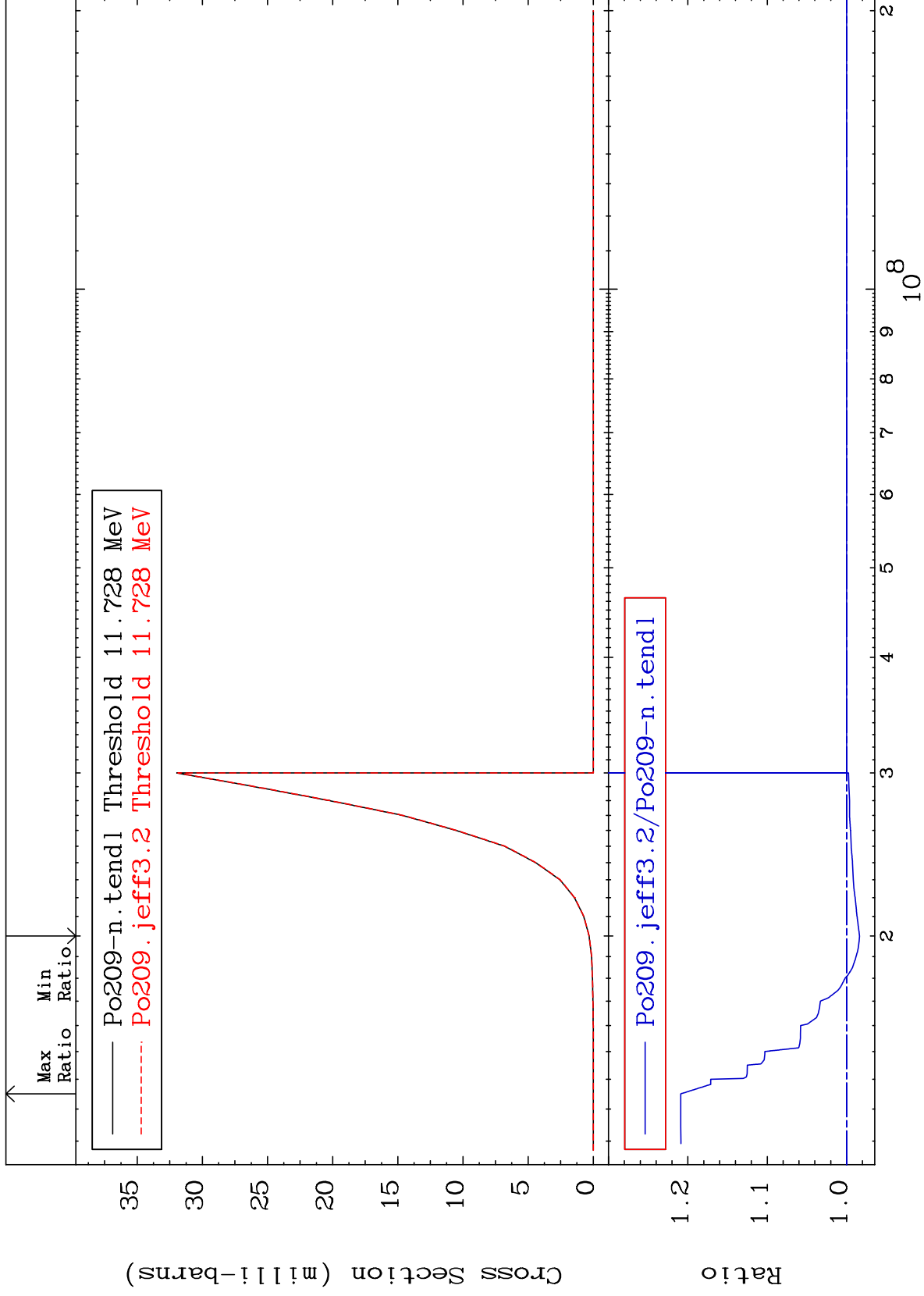
-4.984 To 0.000 %



MAT 8434

(n,2n) p  
Cross Section

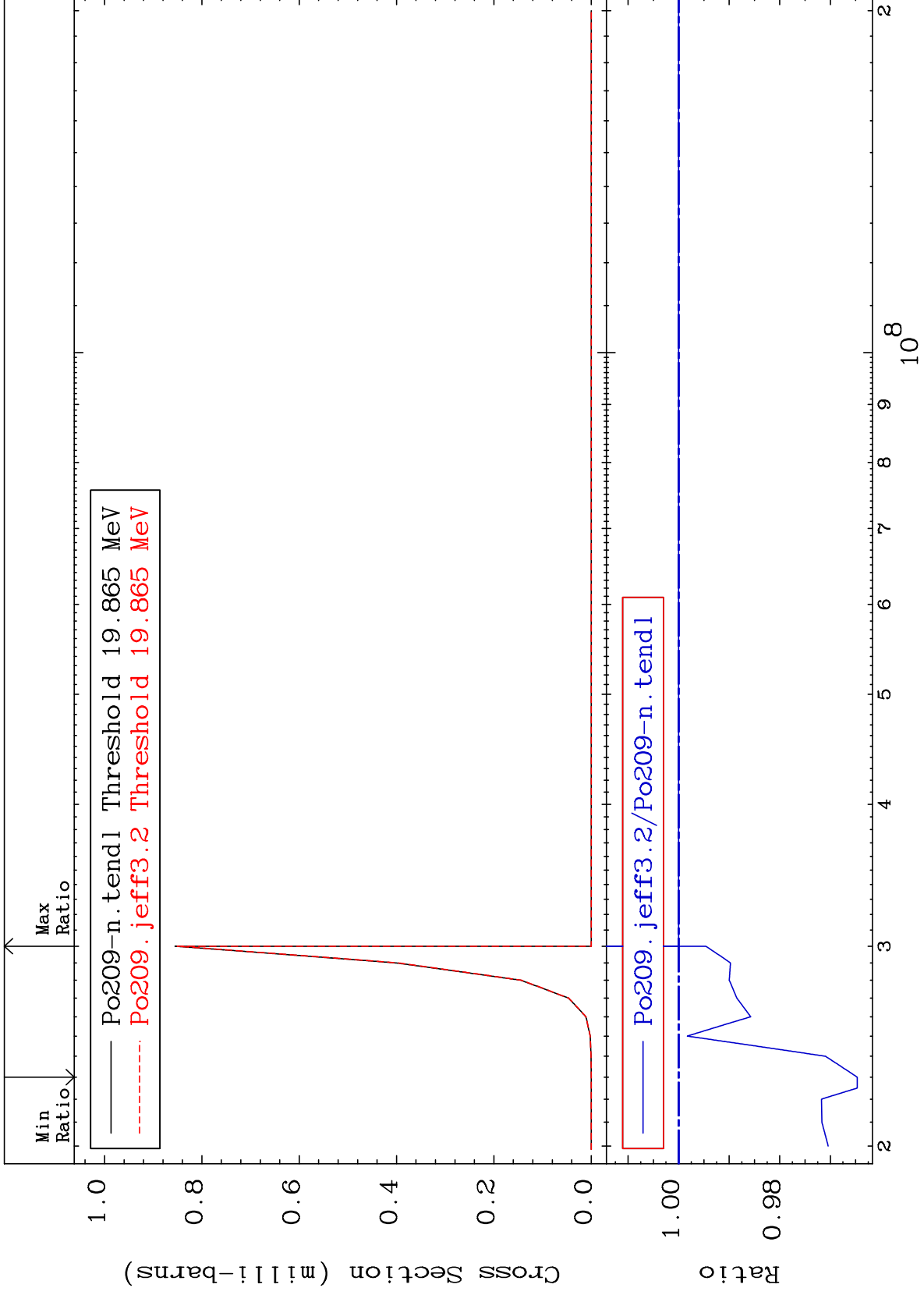
84-Po-209  
-1.628 To 20.90 %



MAT 8434

(n,3n) p  
Cross Section

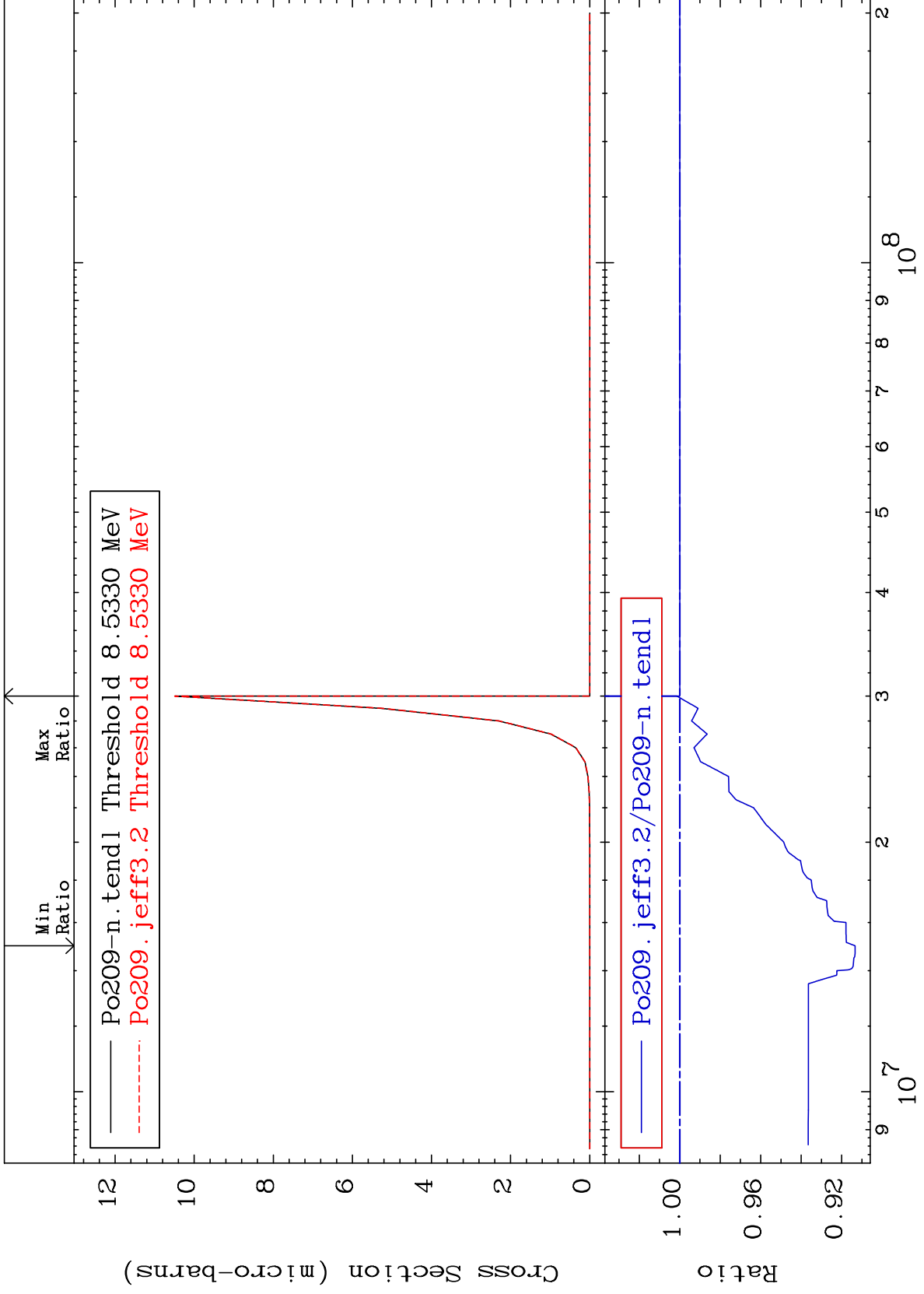
84-Po-209  
-3.533 To 0.000 %



MAT 8434

(n,2n) p  
Cross Section

84-Po-209  
-8.663 To 0.138 %



20

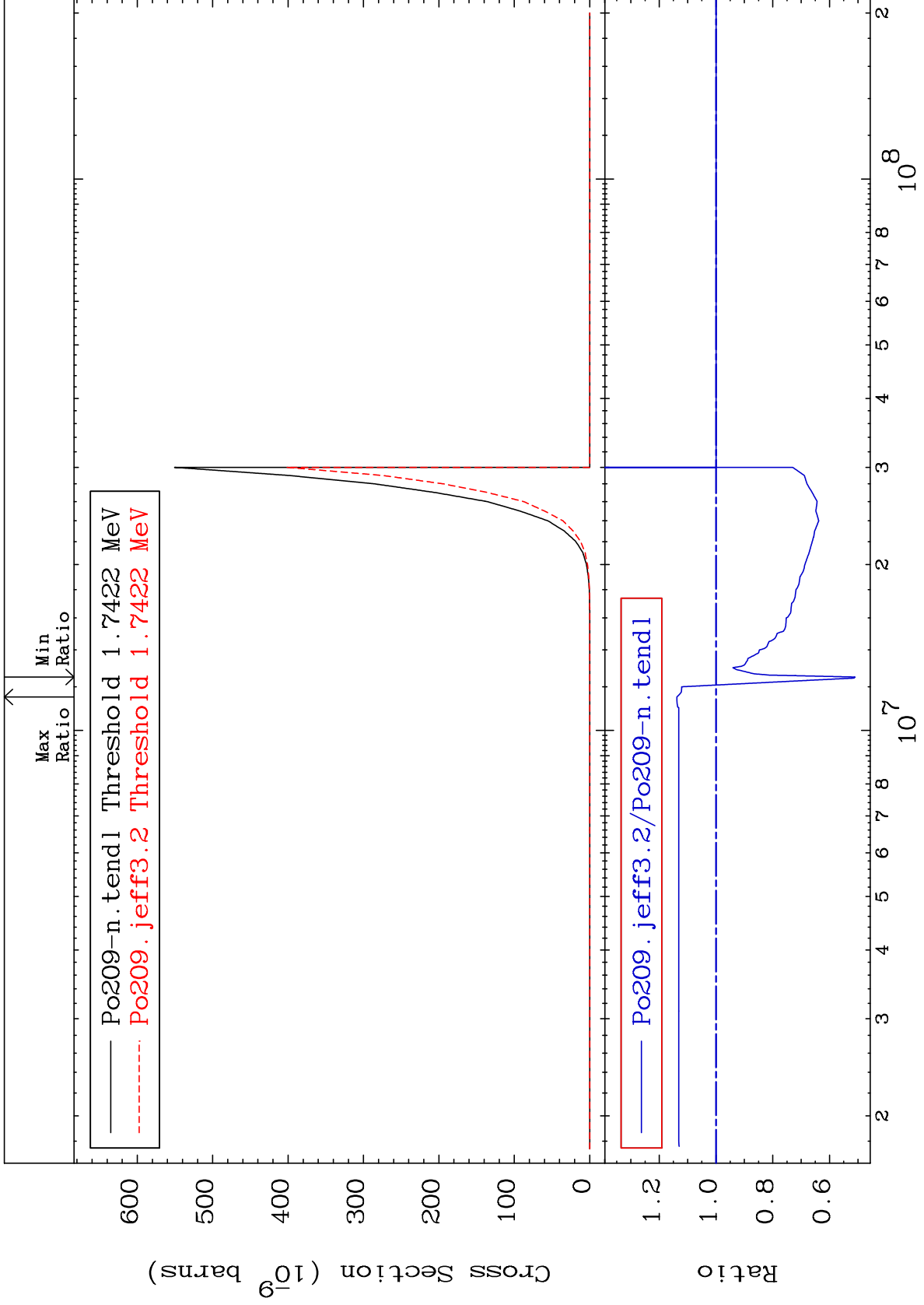
Incident Energy (eV)

84-Po-209

MAT 8434

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

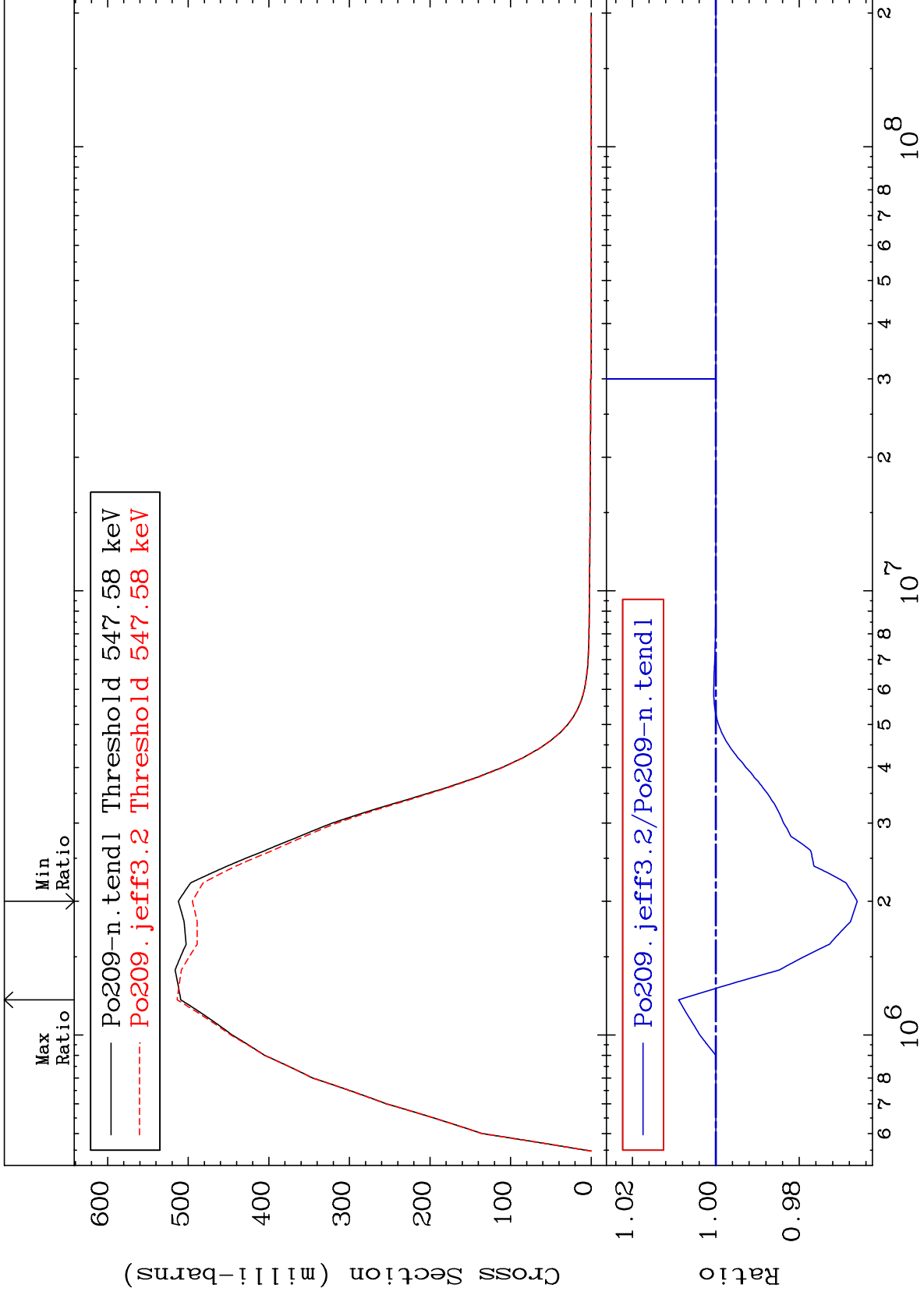
84-Po-209  
-49.01 To 13.77 %



MAT 8434

544.9 keV (n,n') Level  
Cross Section

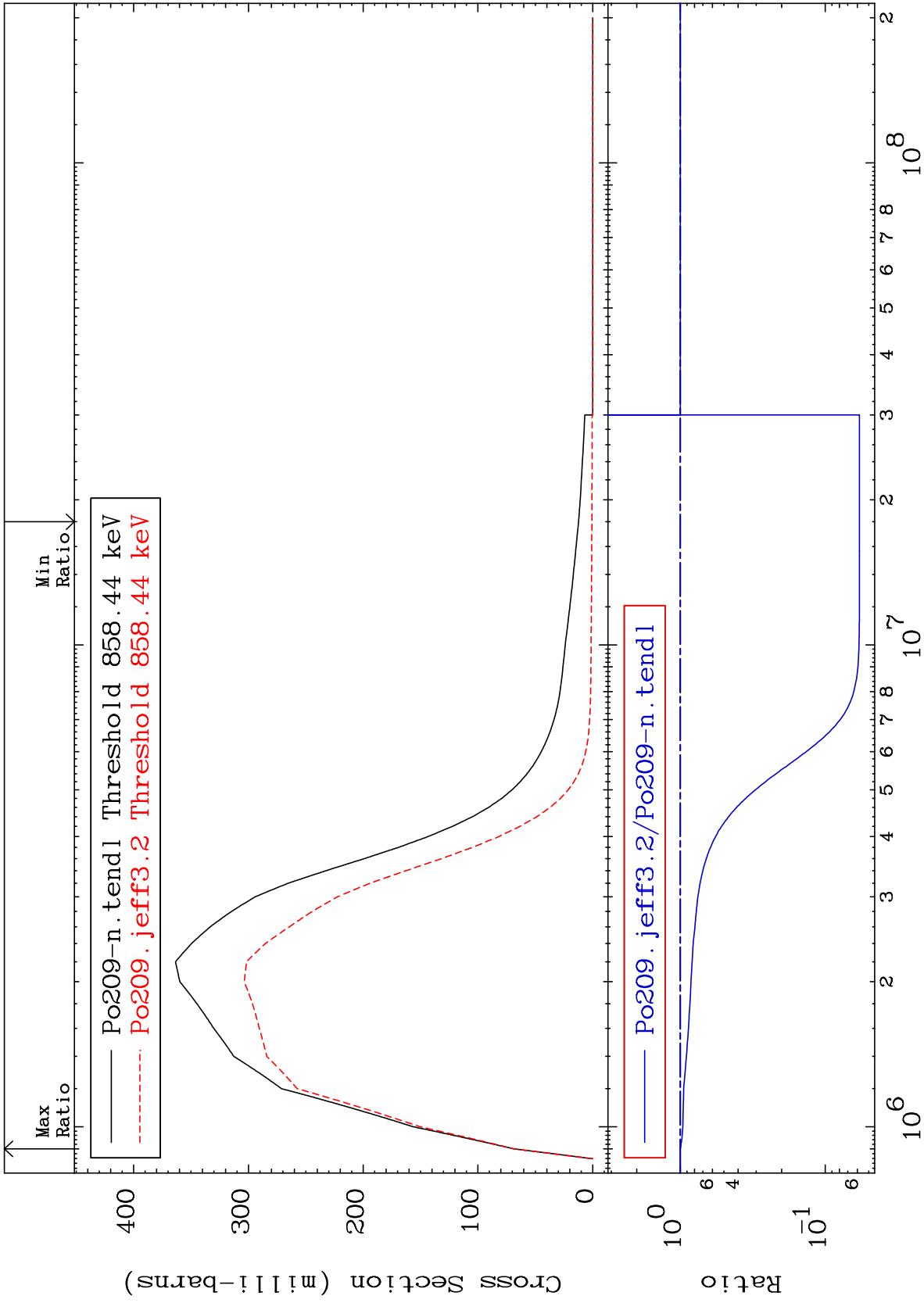
84-Po-209  
-3.390 To 0.891 %



MAT 8434

854.3 keV (n,n') Level  
Cross Section

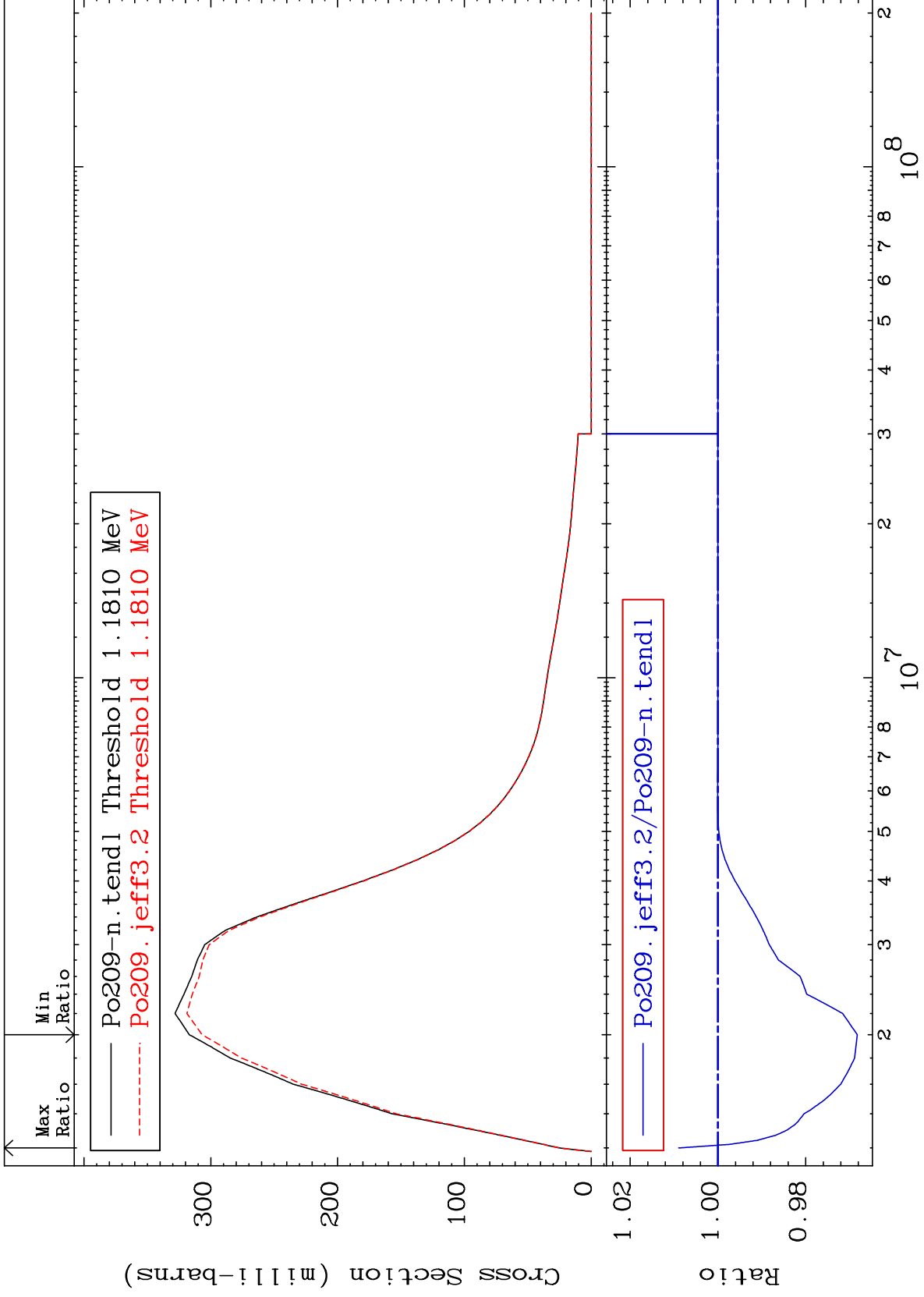
84-Po-209  
-94.19 To 0.000 %



MAT 8434

1.175 MeV (n,n') Level  
Cross Section

84-Po-209  
-3.175 To 0.896 %

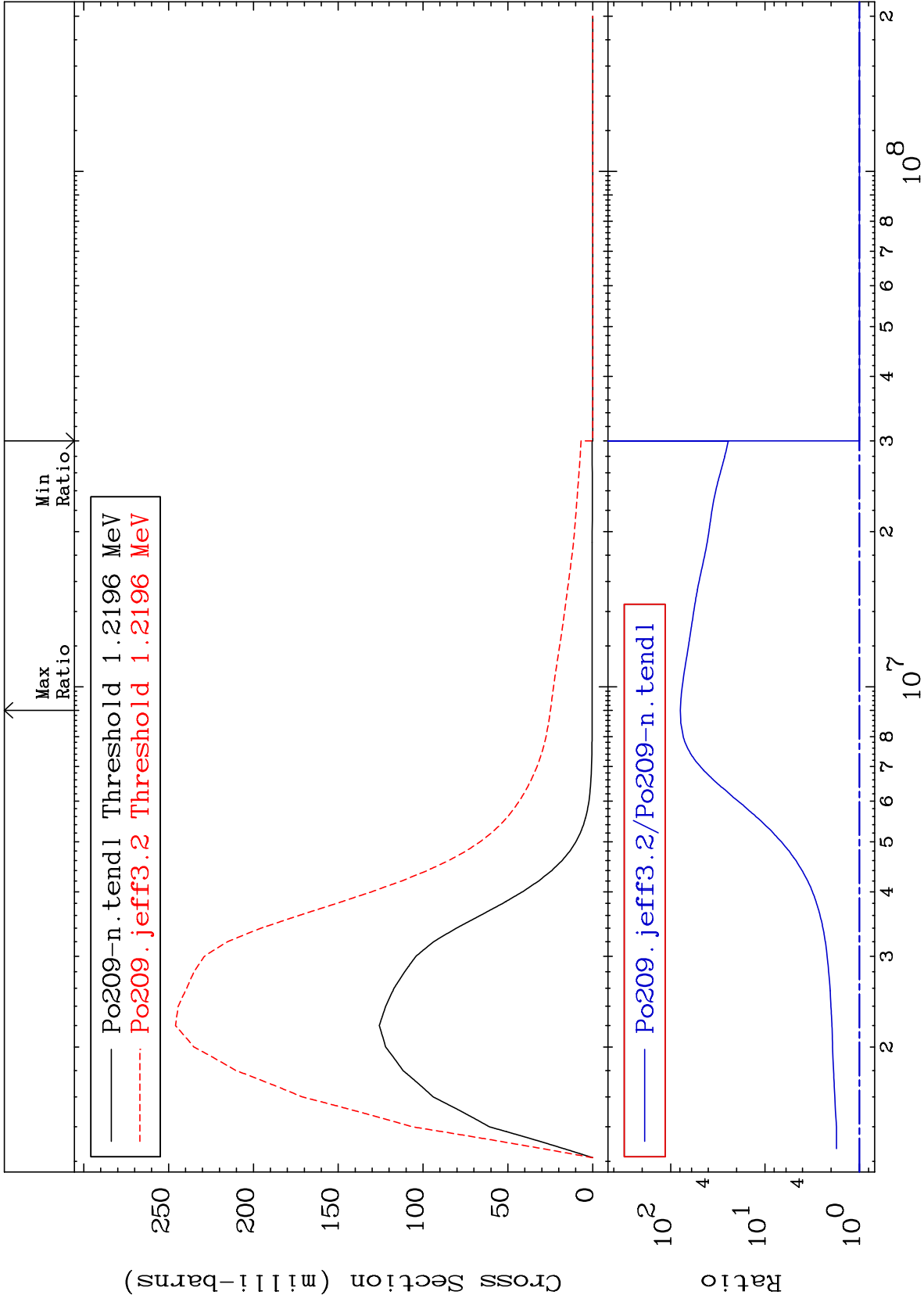


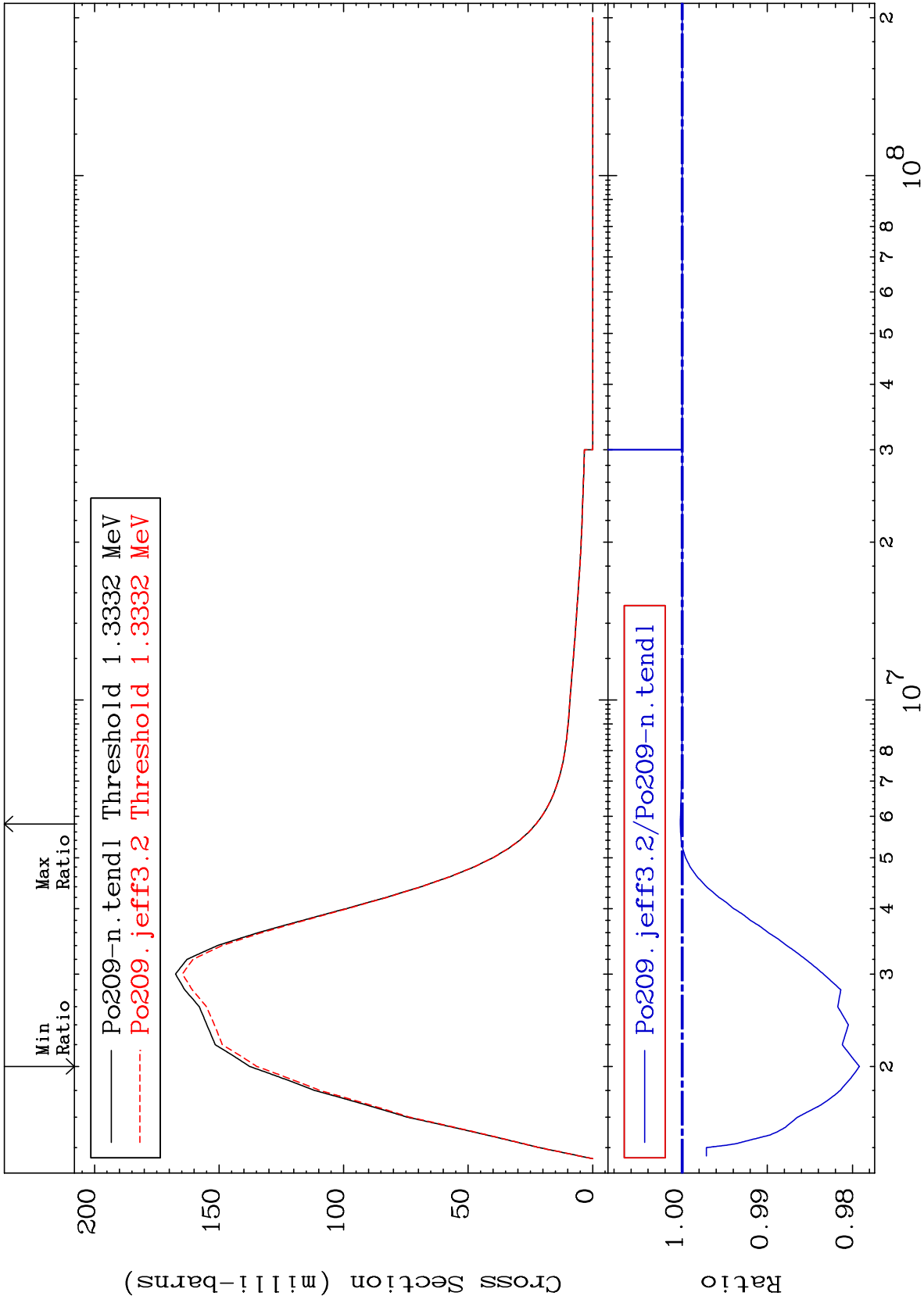


MAT 8434

1.214 MeV (n,n') Level  
Cross Section

84-Po-209  
To 7792. %  
0.000

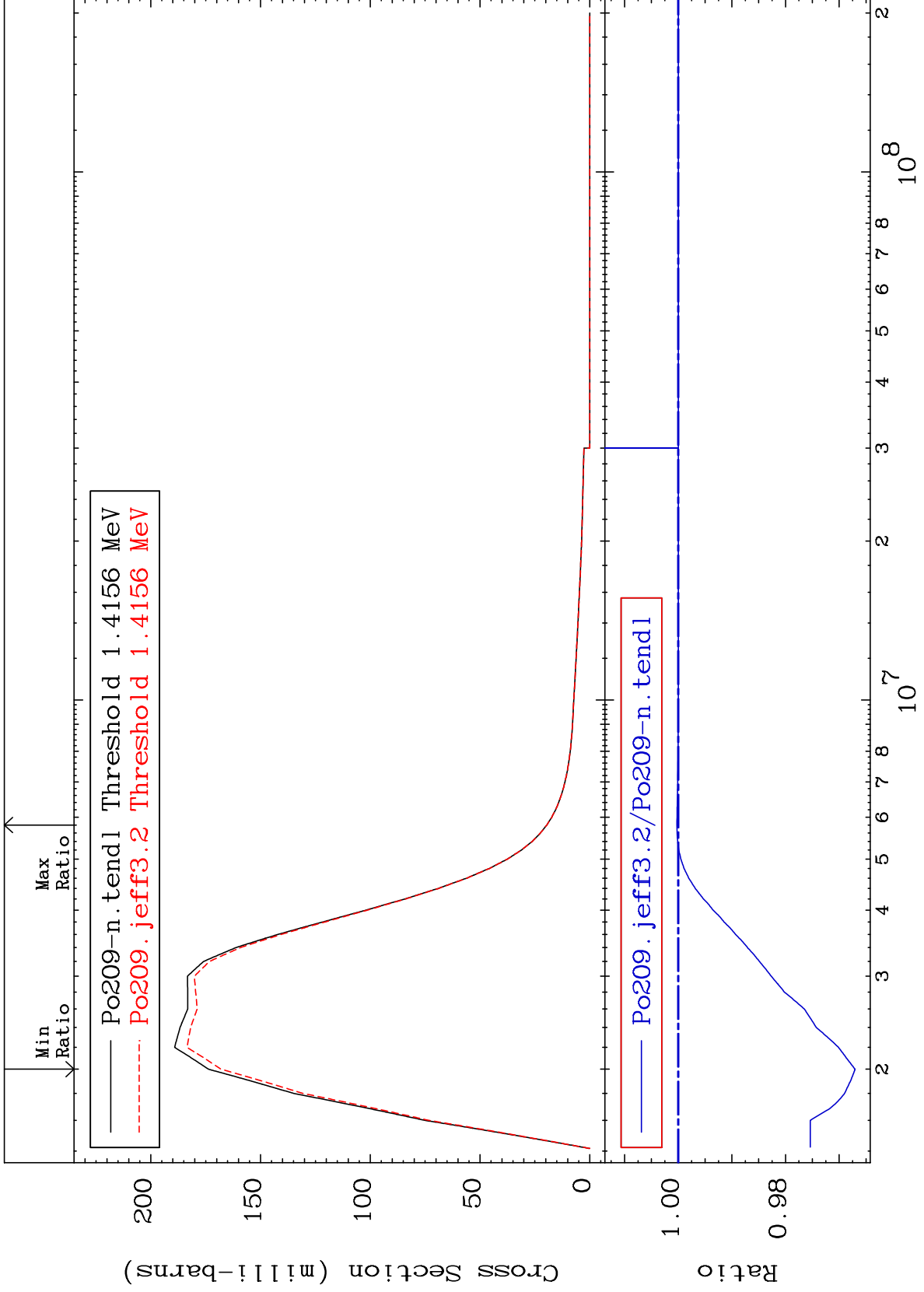




MAT 8434

1.409 MeV (n,n') Level  
Cross Section

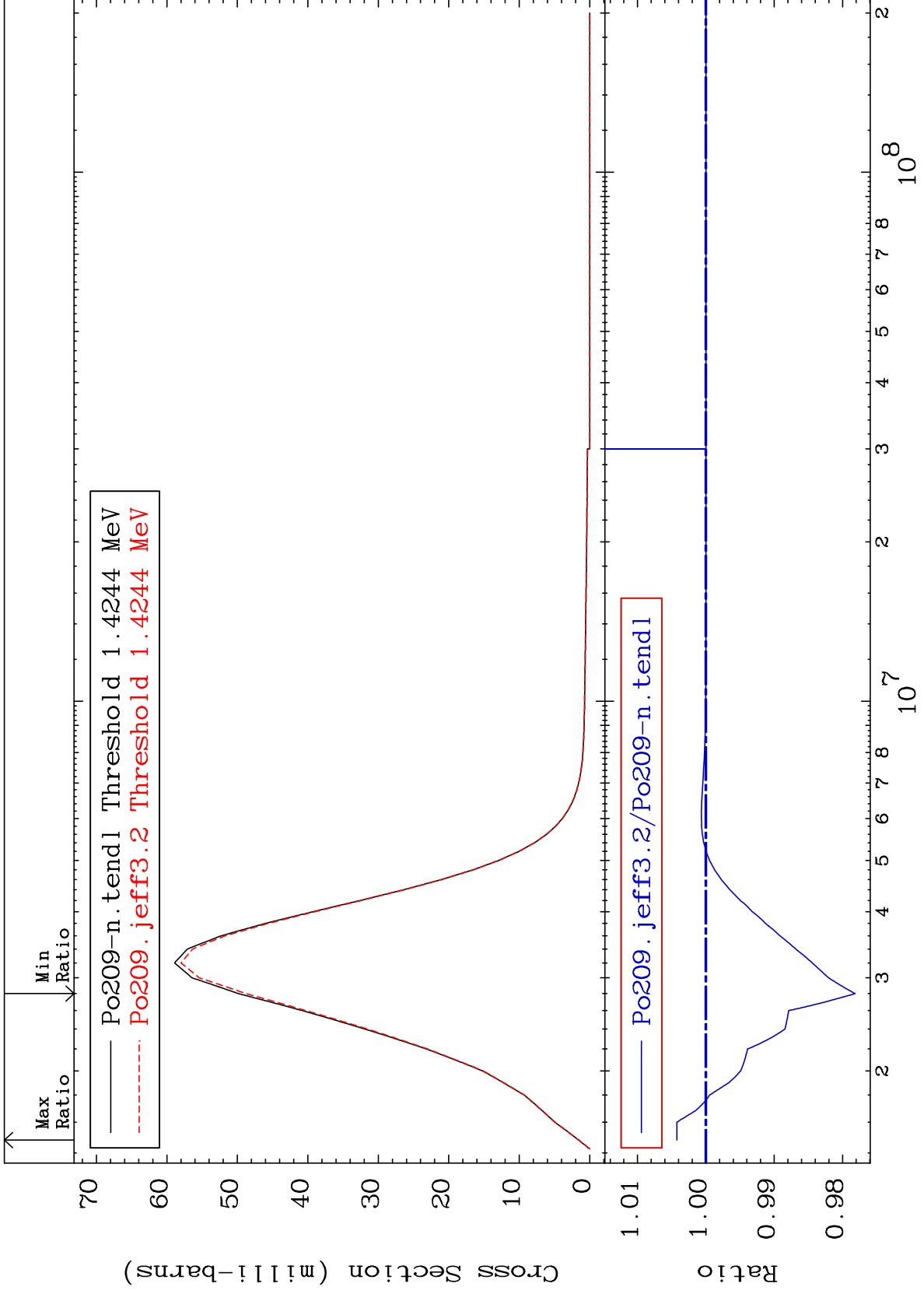
84-Po-209  
-3.296 To 0.025 %

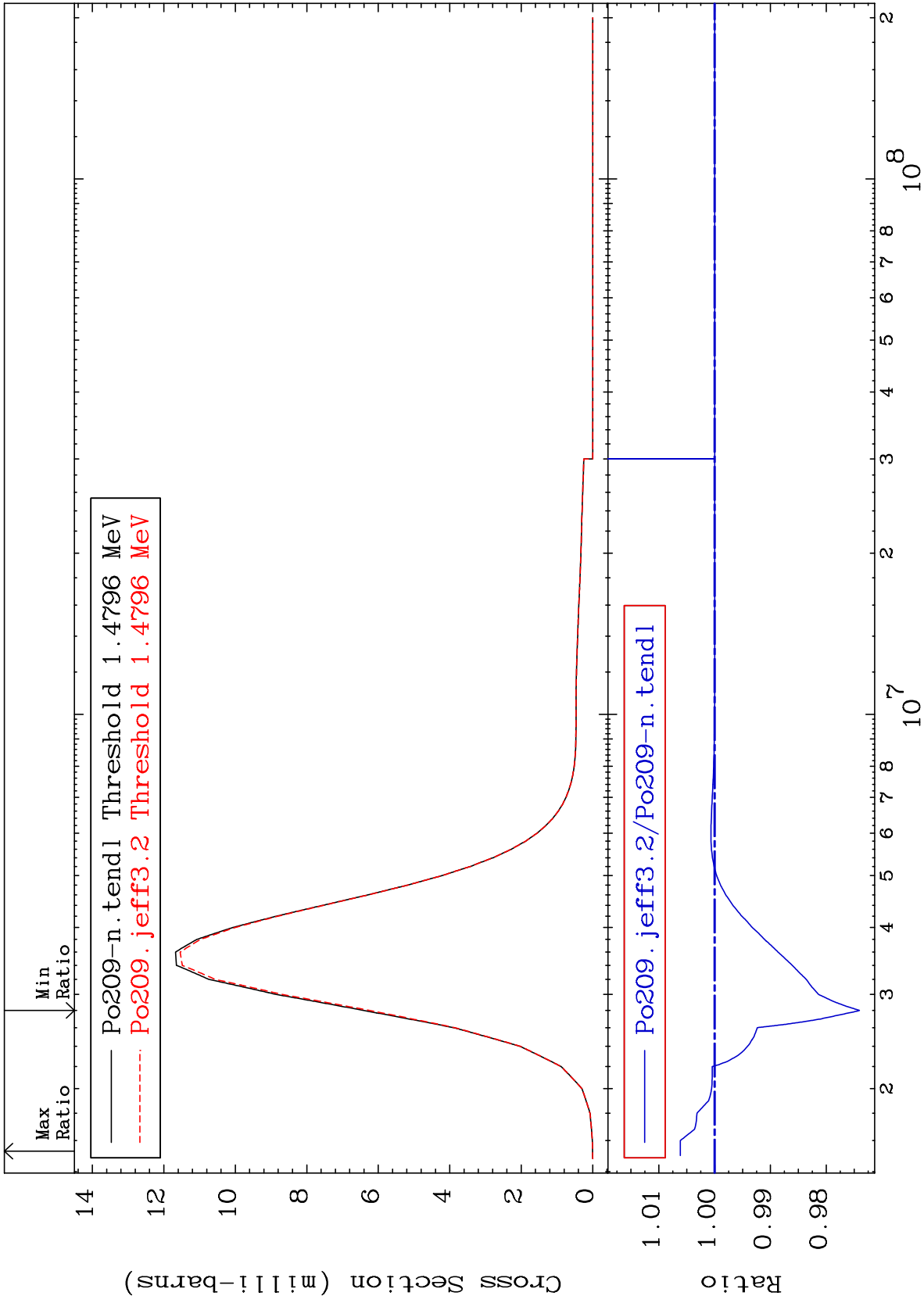


MAT 8434

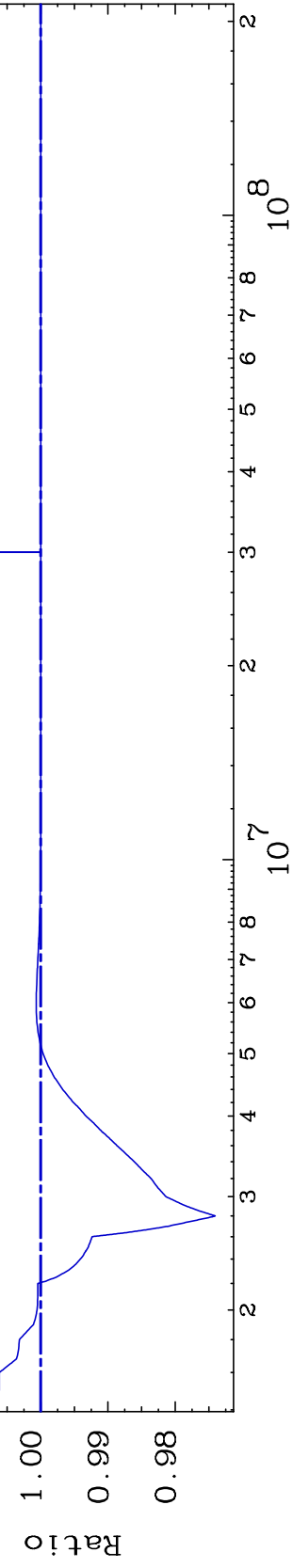
1.418 MeV (n,n') Level  
Cross Section

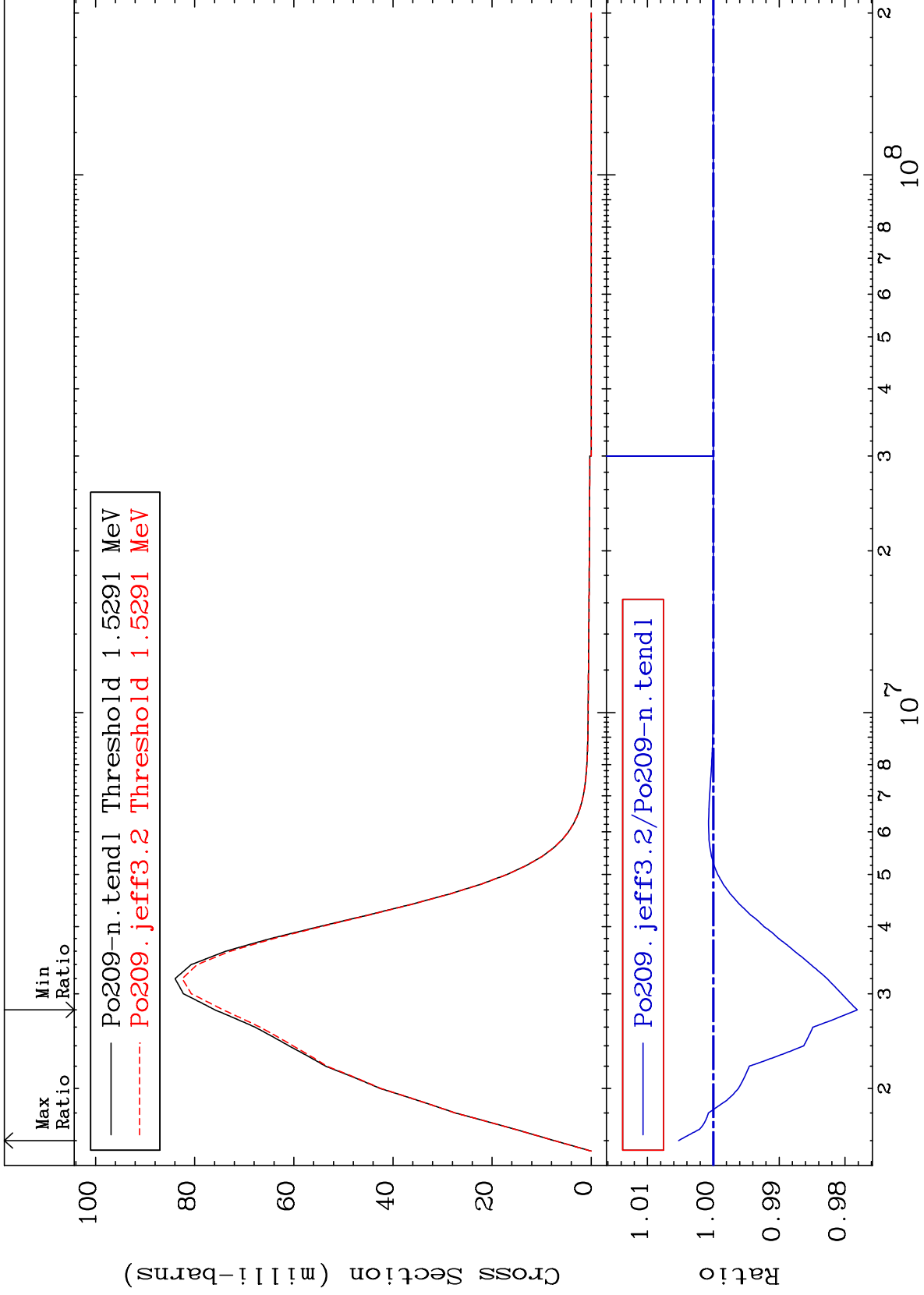
84-Po-209  
-2.184 To 0.424 %

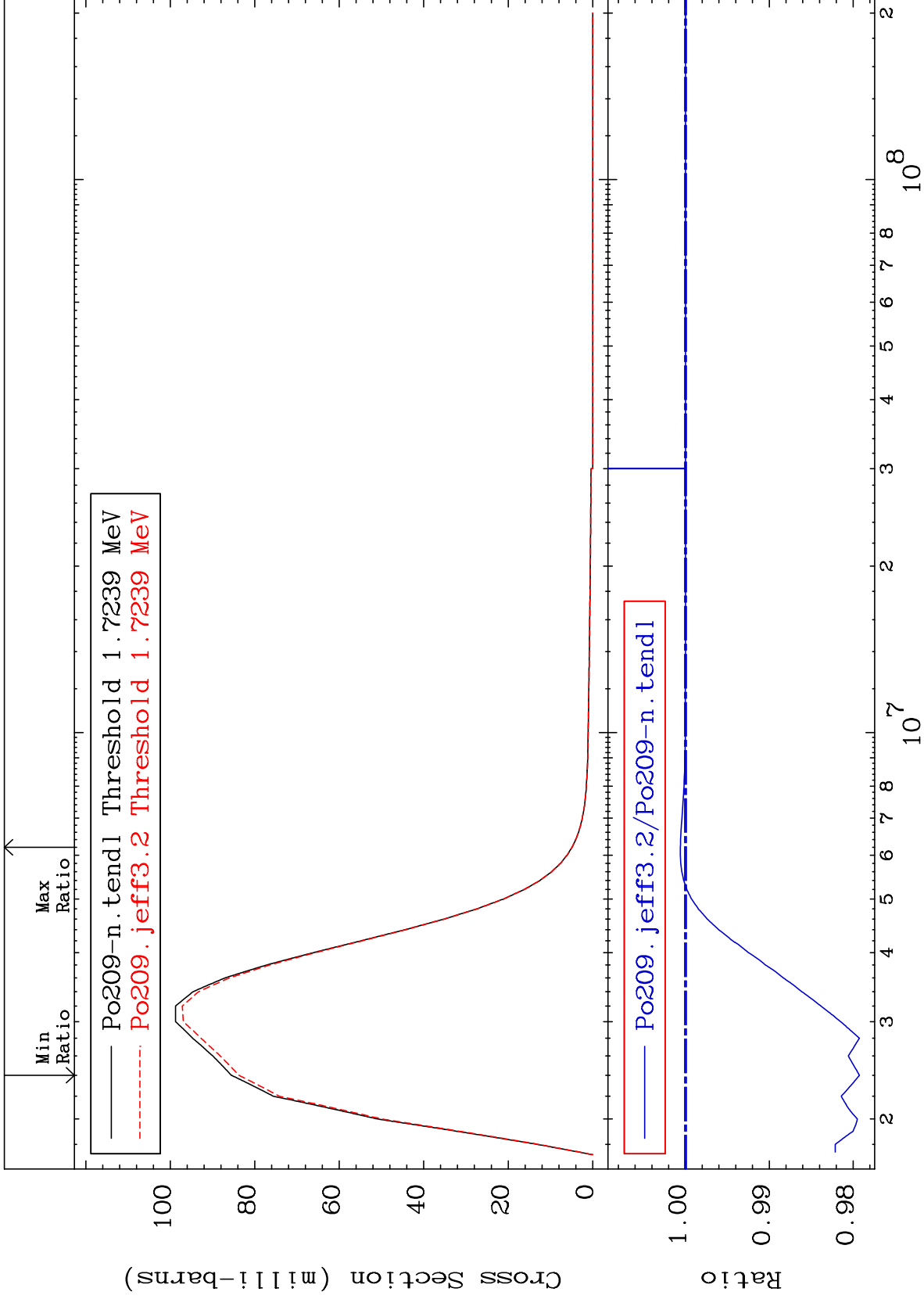




Po209.jeff3.2/Po209-n.tendl



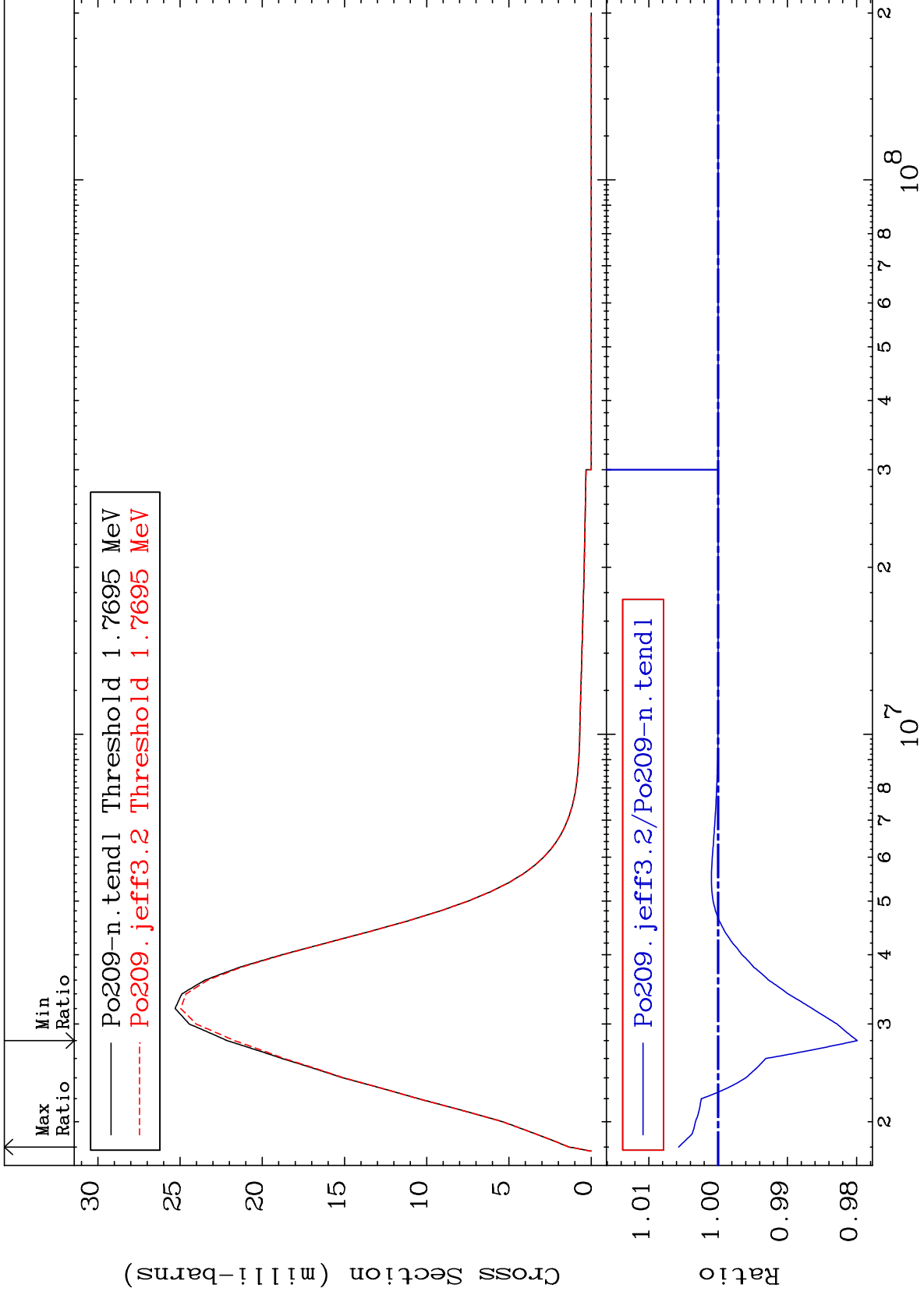




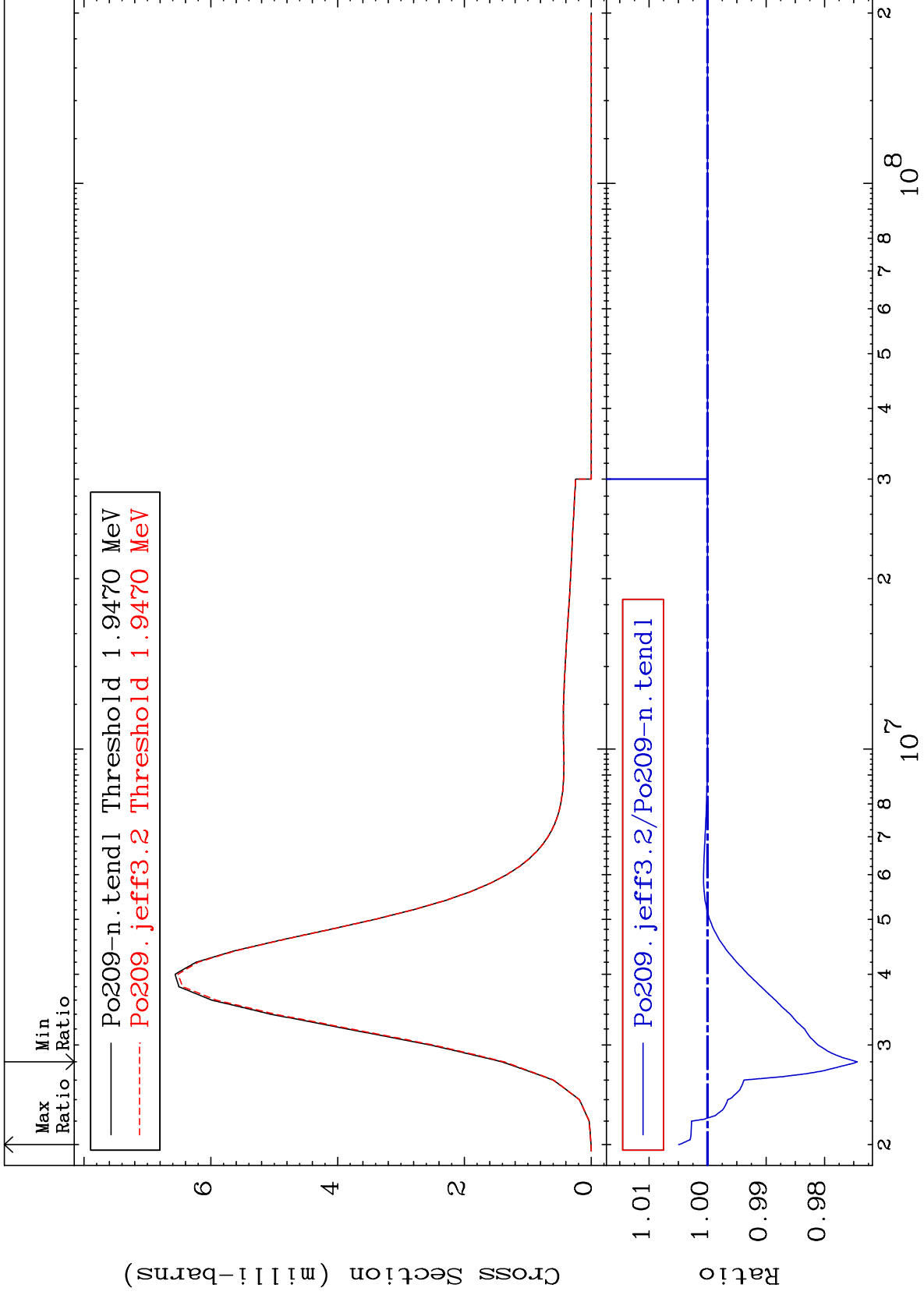
MAT 8434

1.761 MeV (n,n') Level  
Cross Section

84-Po-209  
-2.009 To 0.570 %



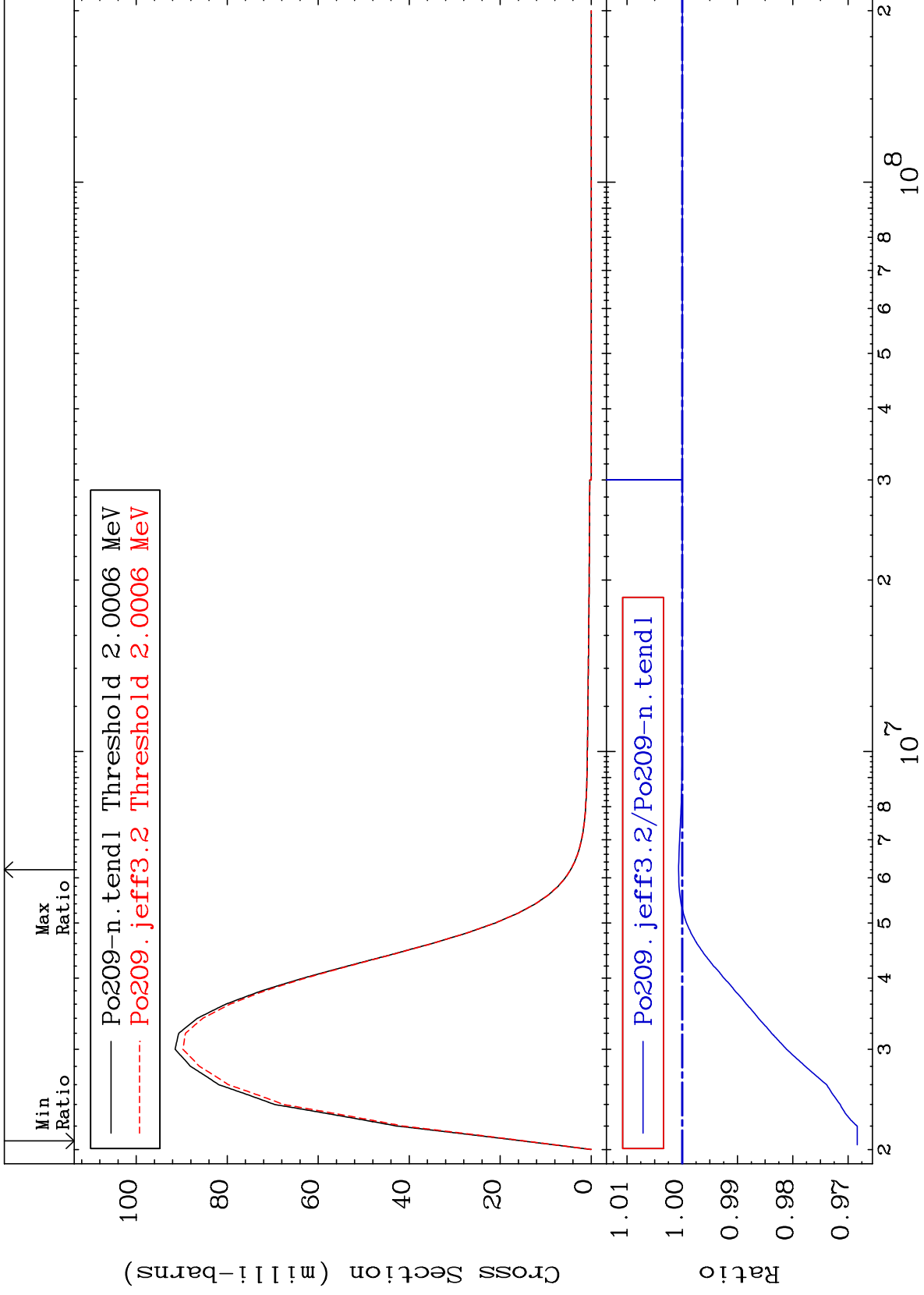


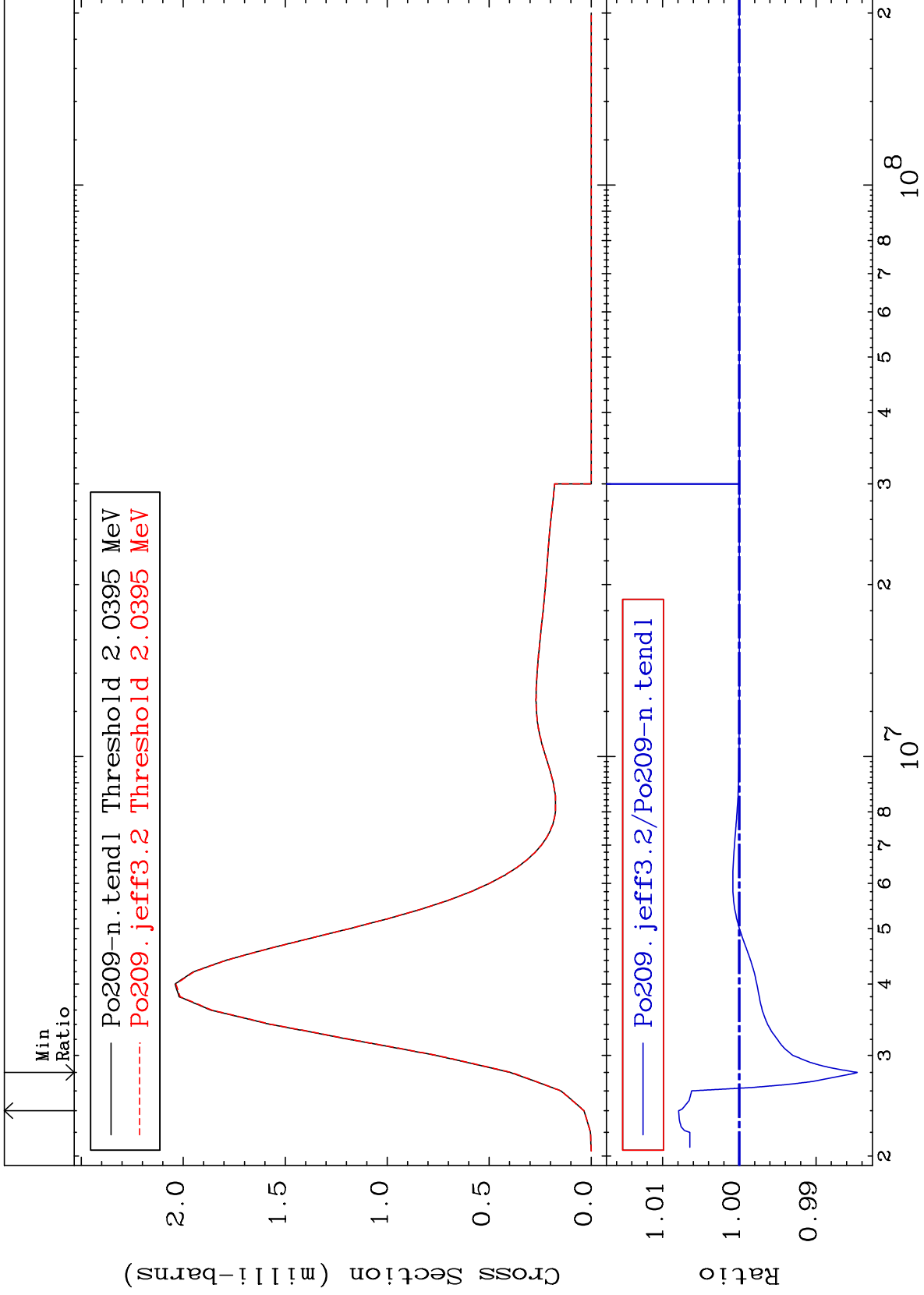


MAT 8434

1.991 MeV (n,n') Level  
Cross Section

84-Po-209  
-3.168 To 0.065 %

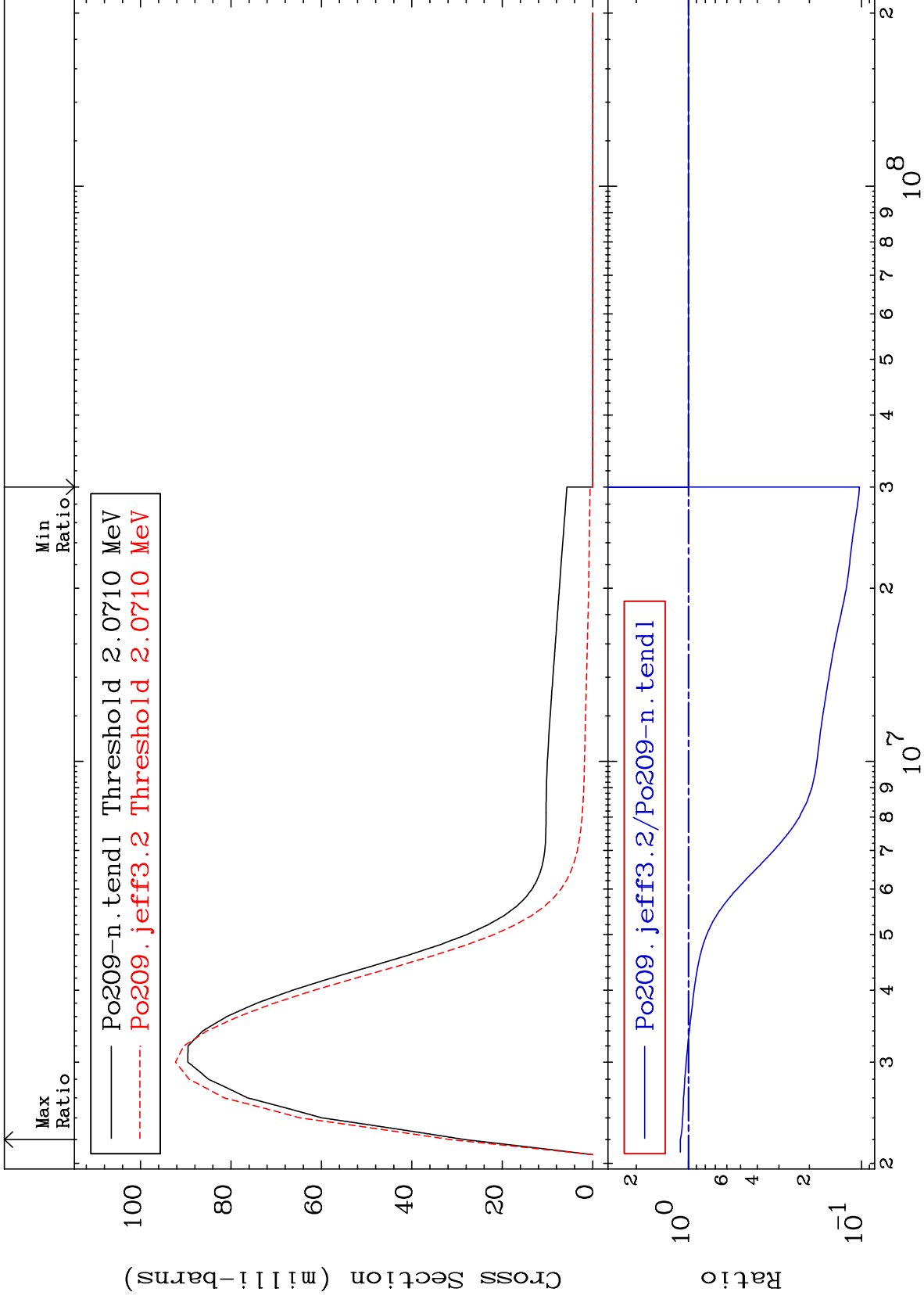




MAT 8434

2.061 MeV (n,n') Level  
Cross Section

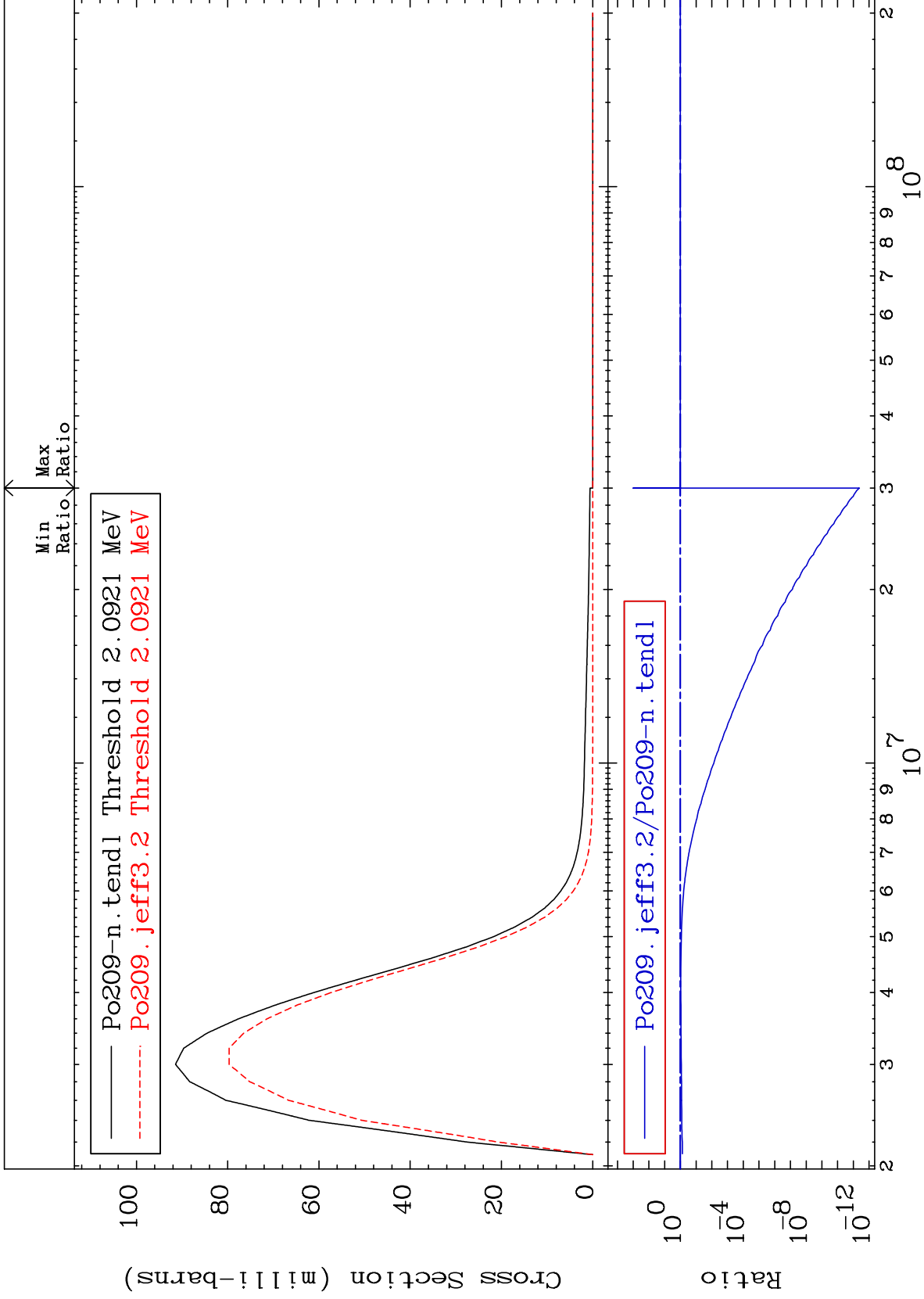
84-Po-209  
-89.72 To 11.42 %



MAT 8434

2.082 MeV (n,n') Level  
Cross Section

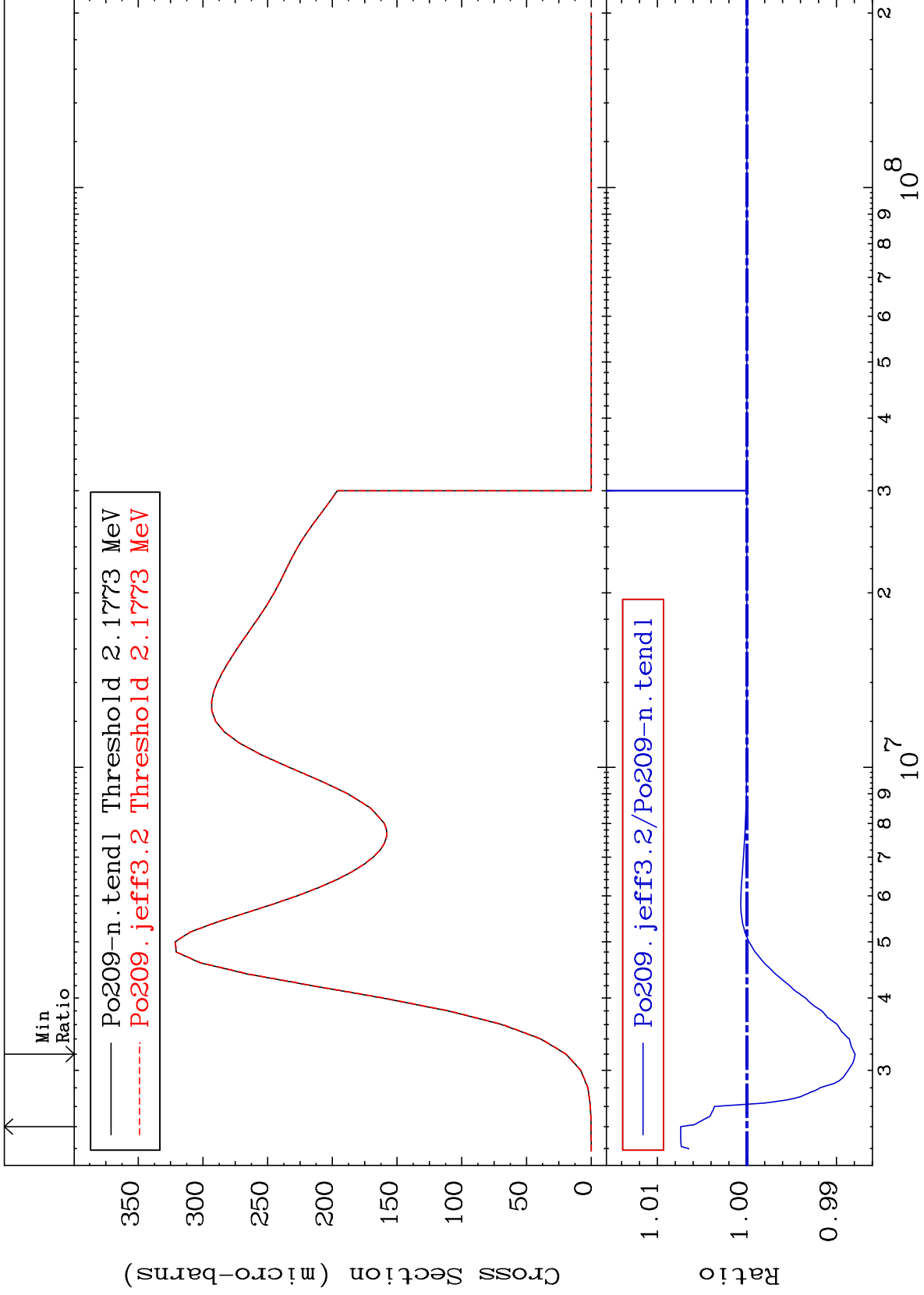
84-Po-209  
-100.0 To 0.000 %



MAT 8434

2.167 MeV (n,n') Level  
Cross Section

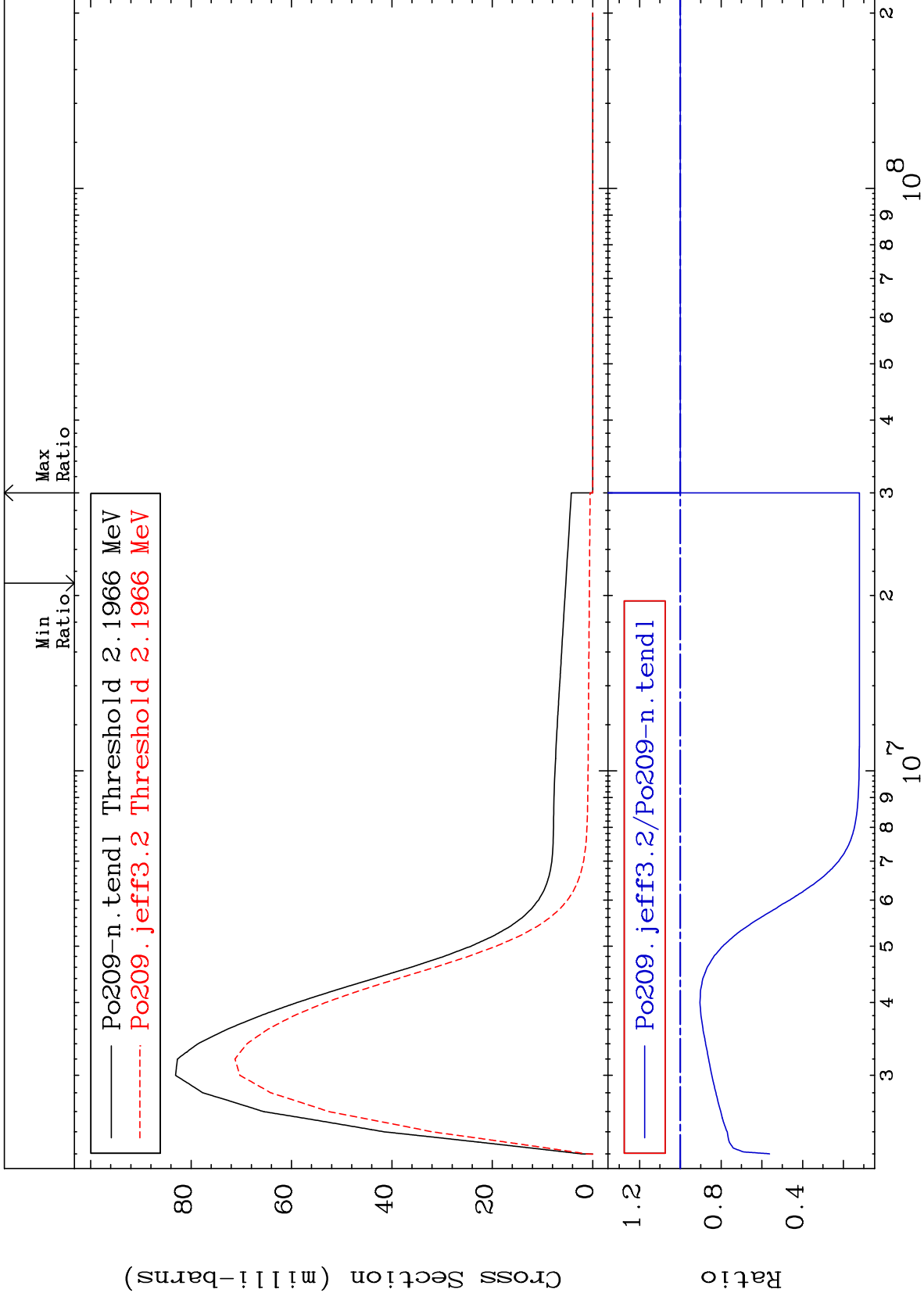
84-Po-209  
-1.210 To 0.739 %



MAT 8434

2.186 MeV (n,n') Level  
Cross Section

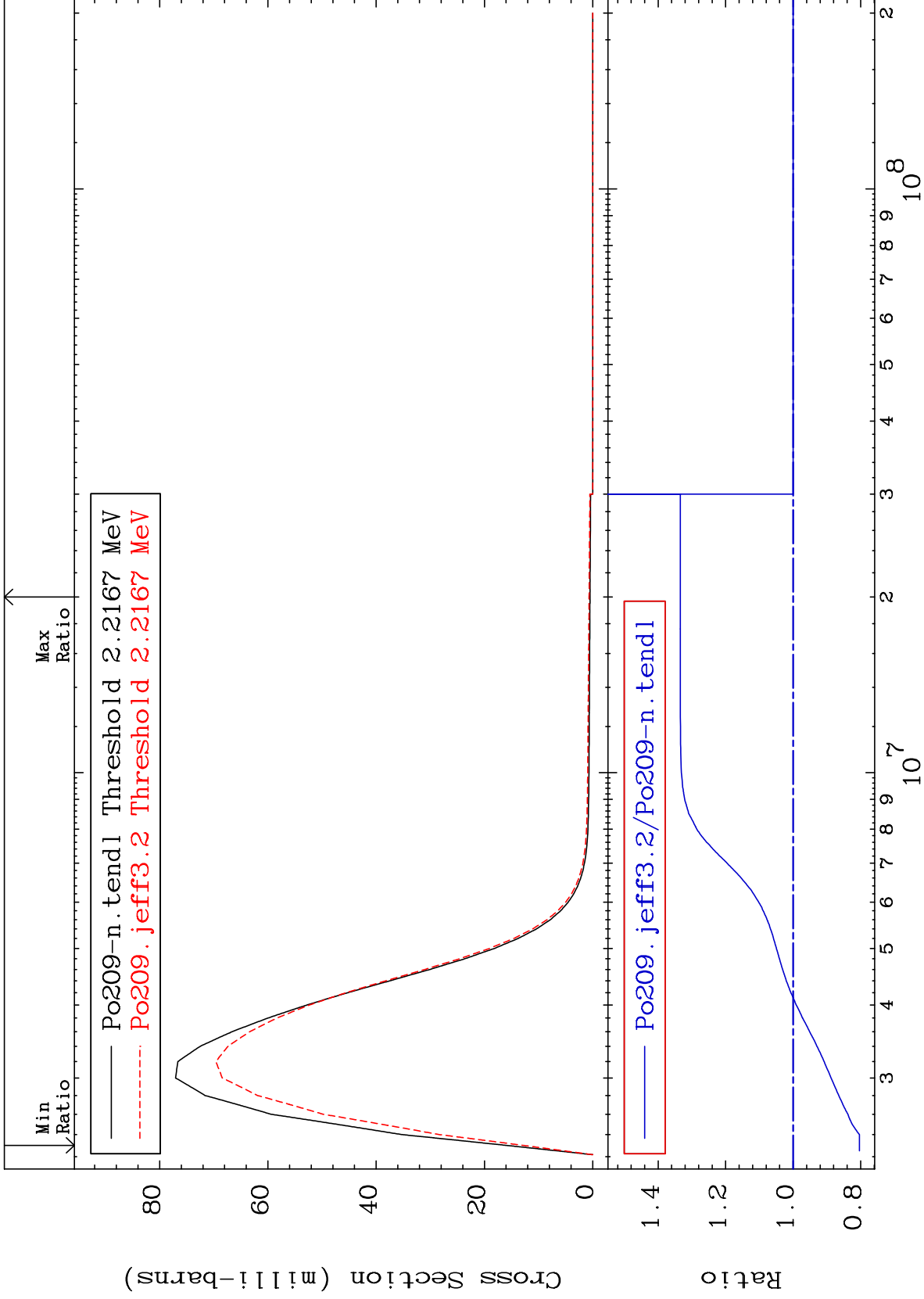
84-Po-209  
-87.86 To 0.000 %



MAT 8434

2.206 MeV (n,n') Level  
Cross Section

84-Po-209  
-19.64 To 33.42 %



40

Incident Energy (eV)

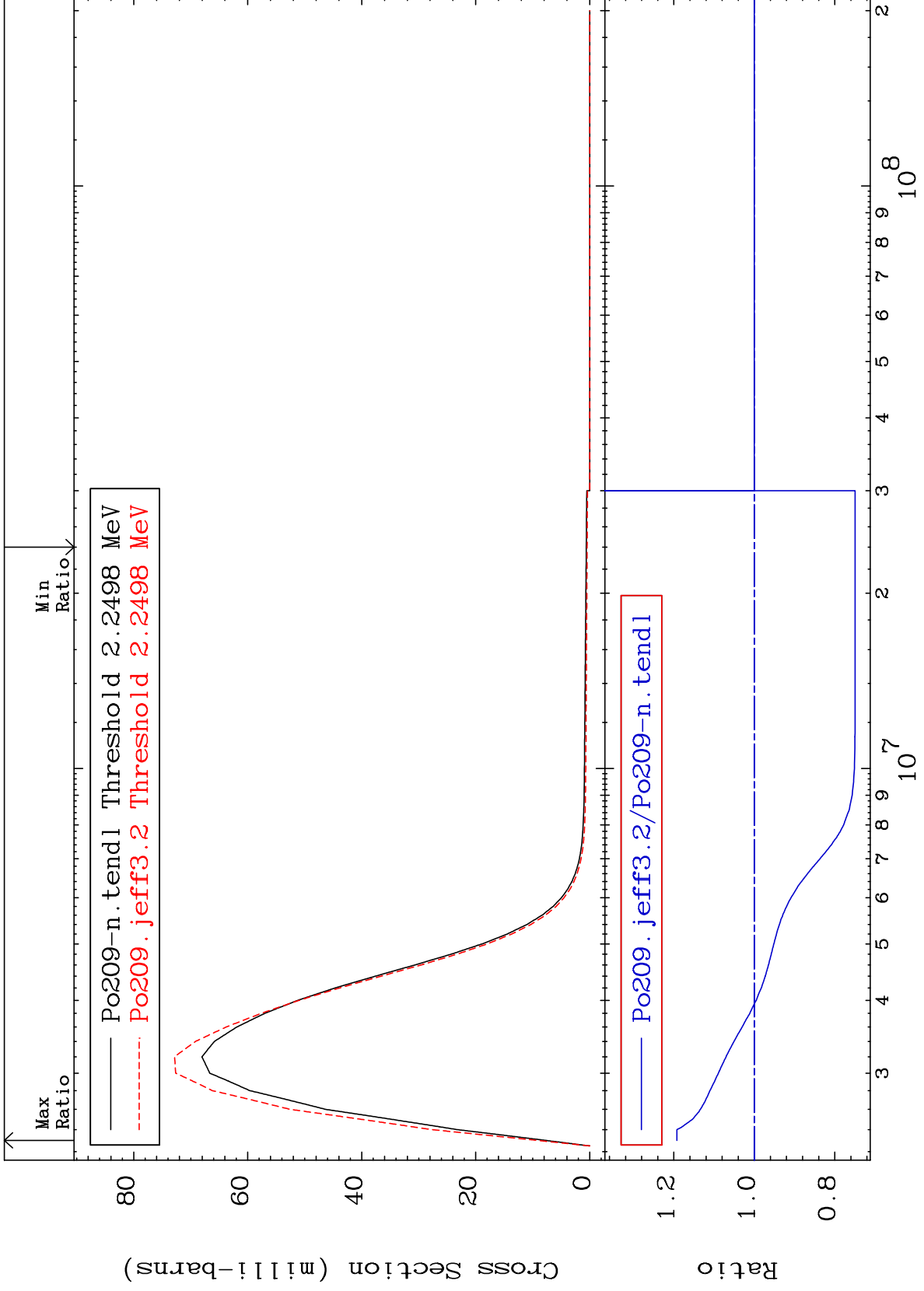
84-Po-209



MAT 8434

2.239 MeV (n,n') Level  
Cross Section

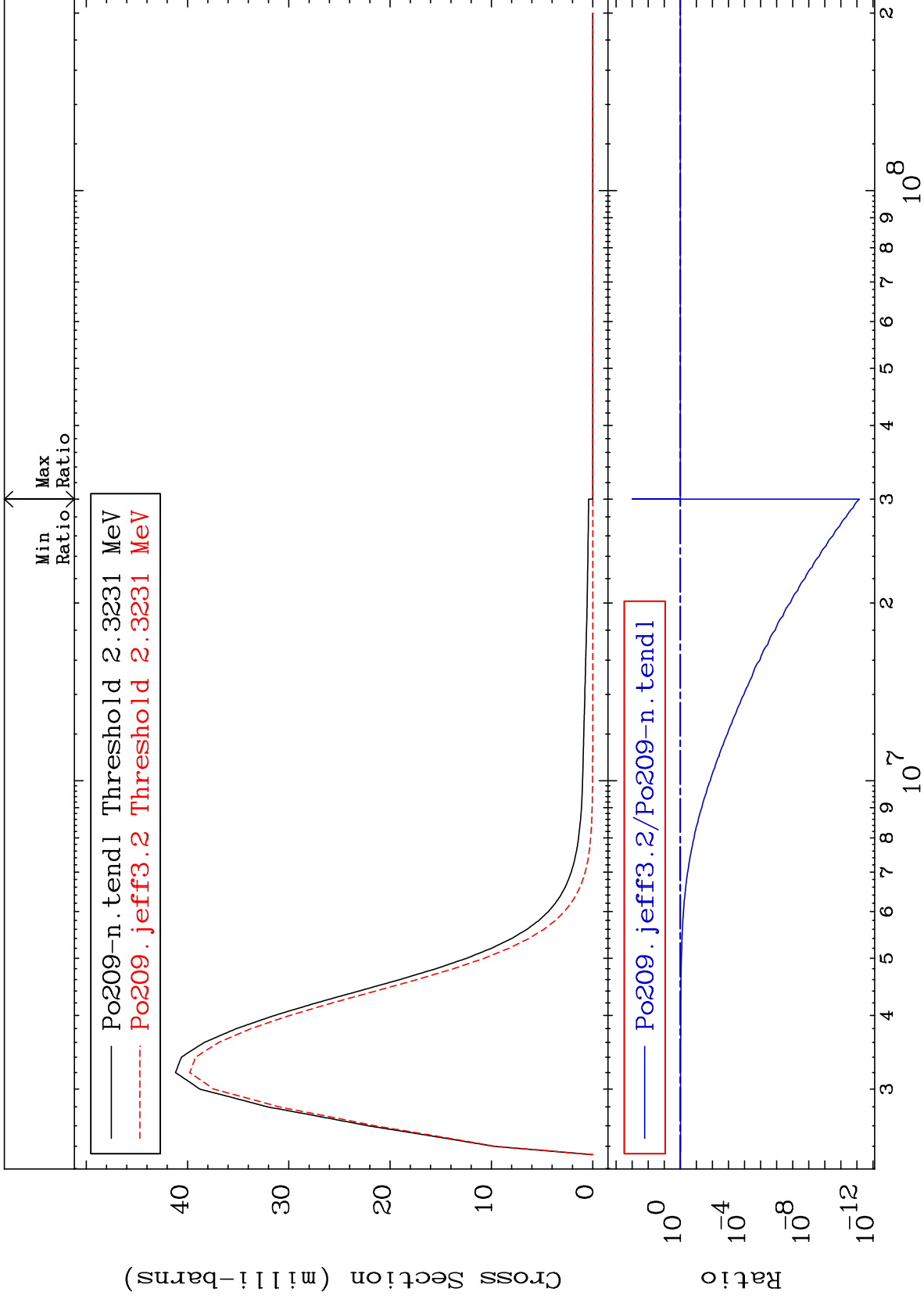
84-Po-209  
-25.05 To 19.24 %



MAT 8434

2.312 MeV (n,n') Level  
Cross Section

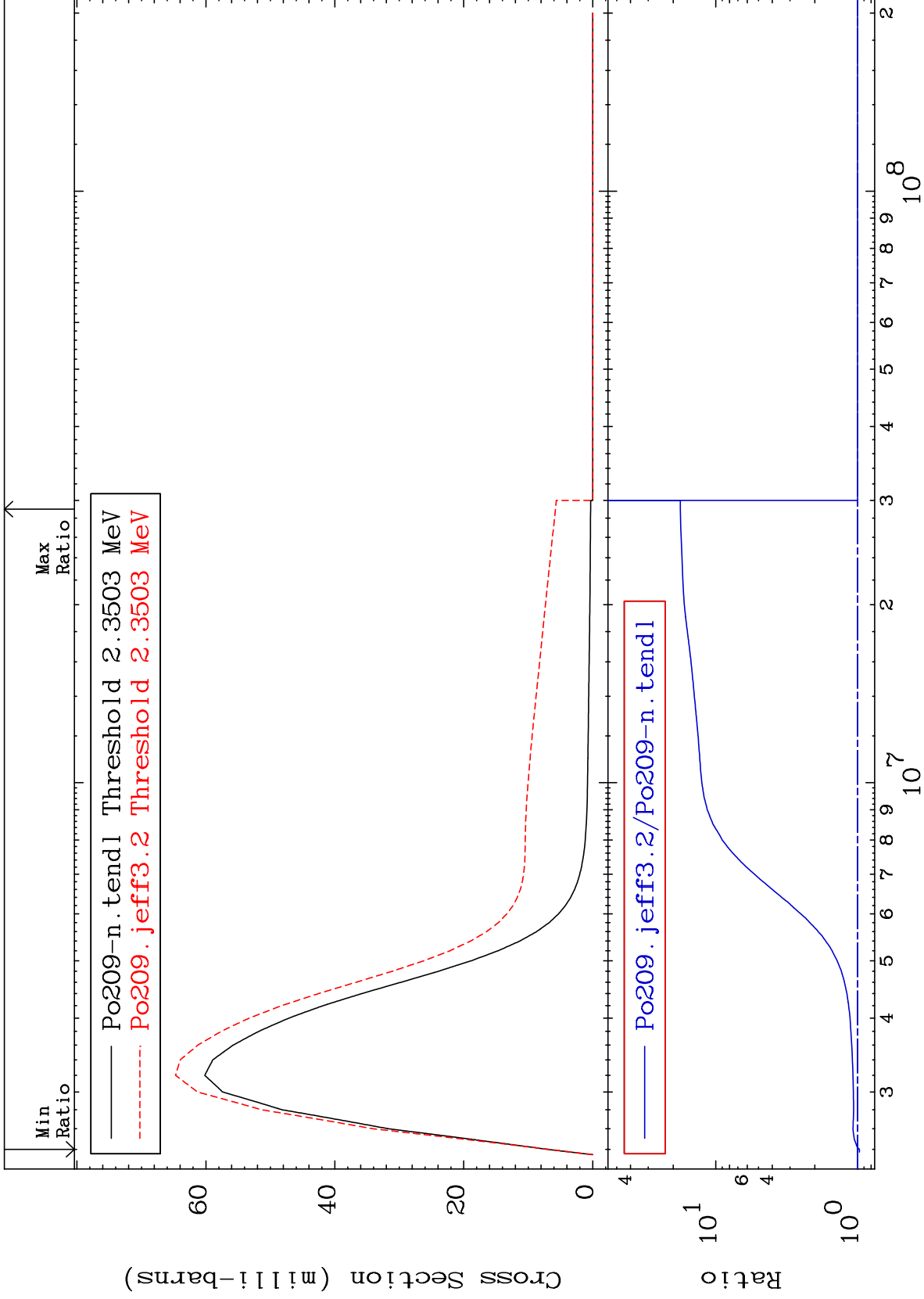
84-Po-209  
-100.0 To 0.000 %



MAT 8434

2.339 MeV (n,n') Level  
Cross Section

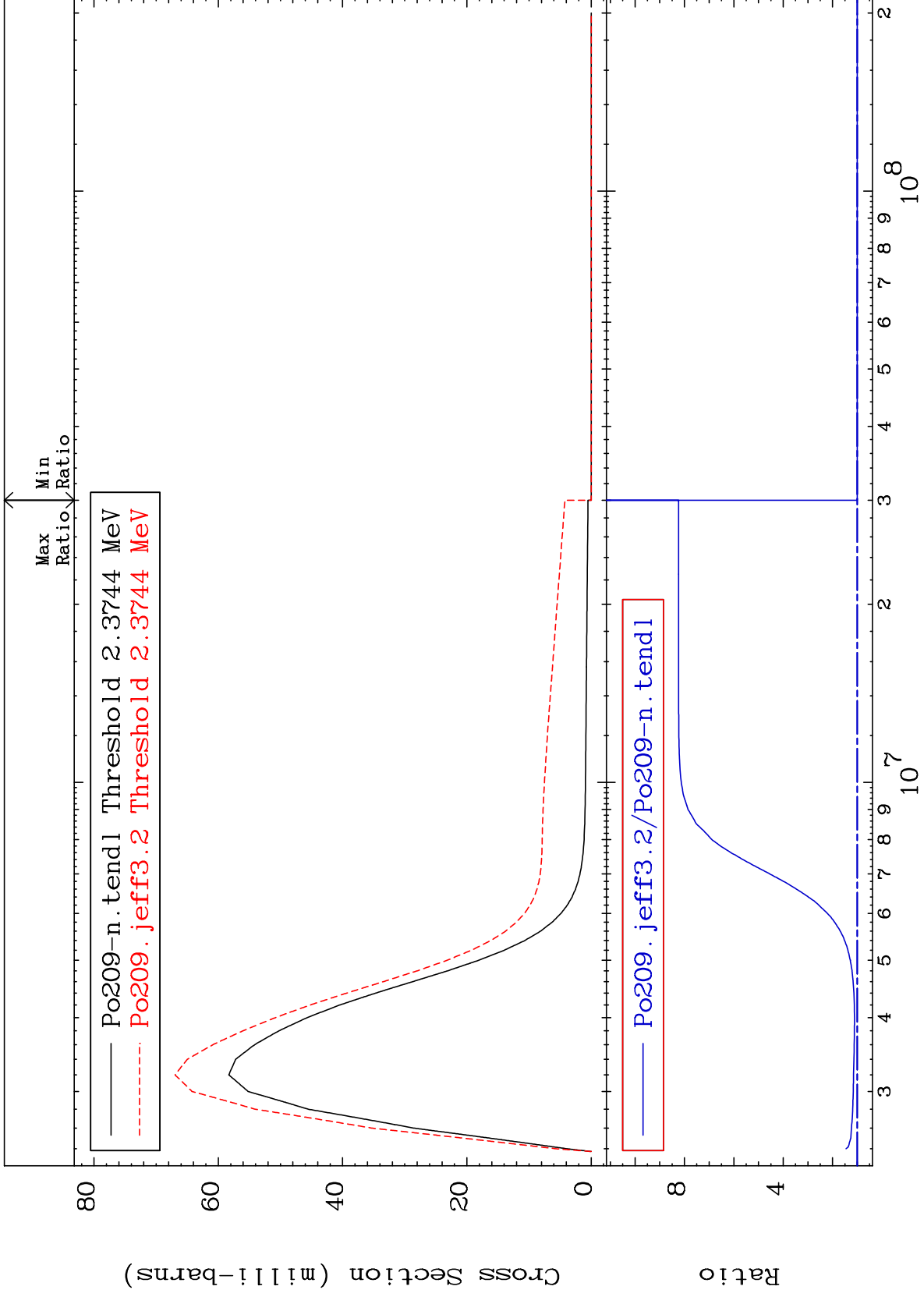
84-Po-209  
-3.122 To 1680. %



MAT 8434

2.363 MeV (n, n') Level  
Cross Section

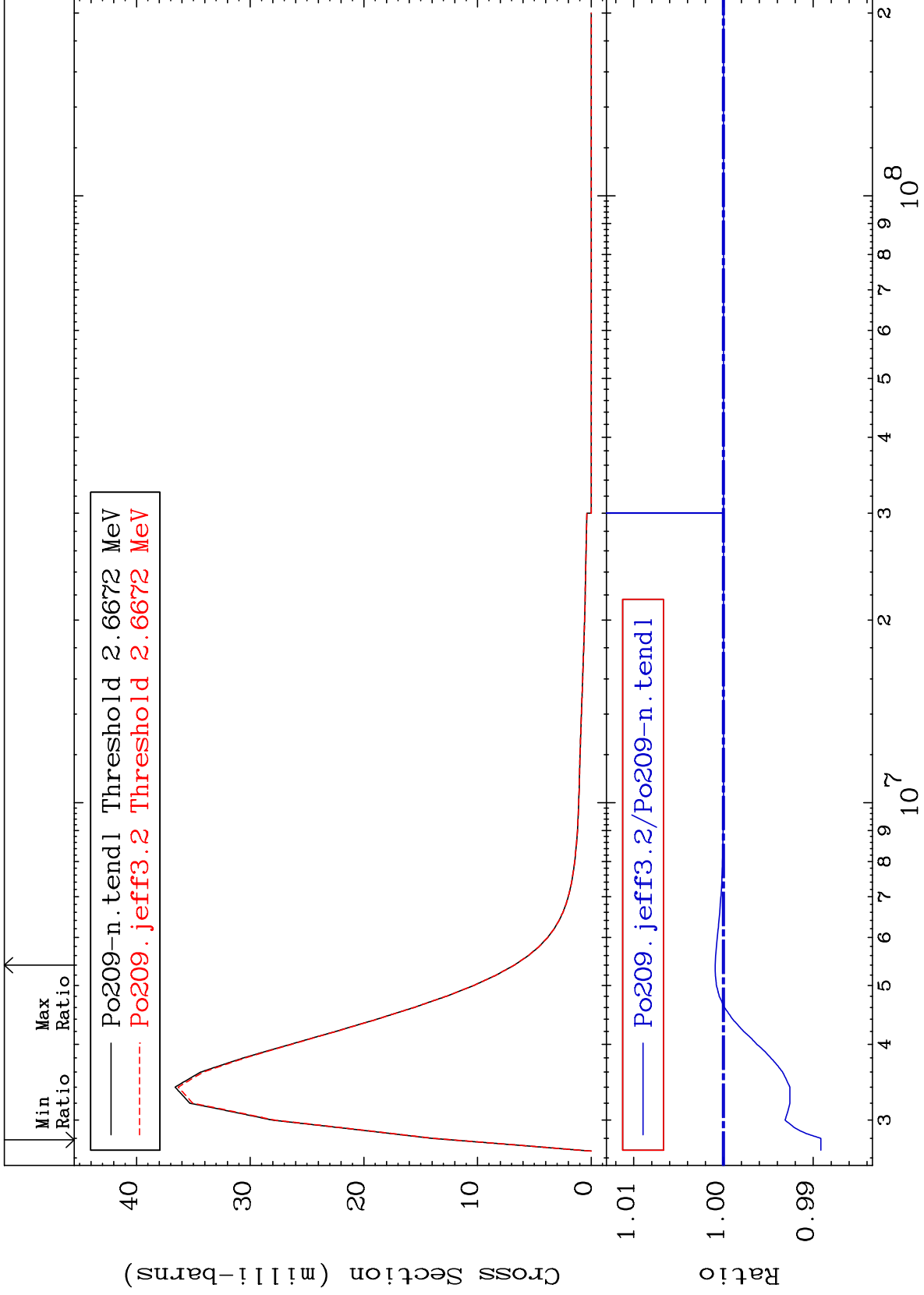
84-Po-209  
To 723.5 %



MAT 8434

2.654 MeV (n,n') Level  
Cross Section

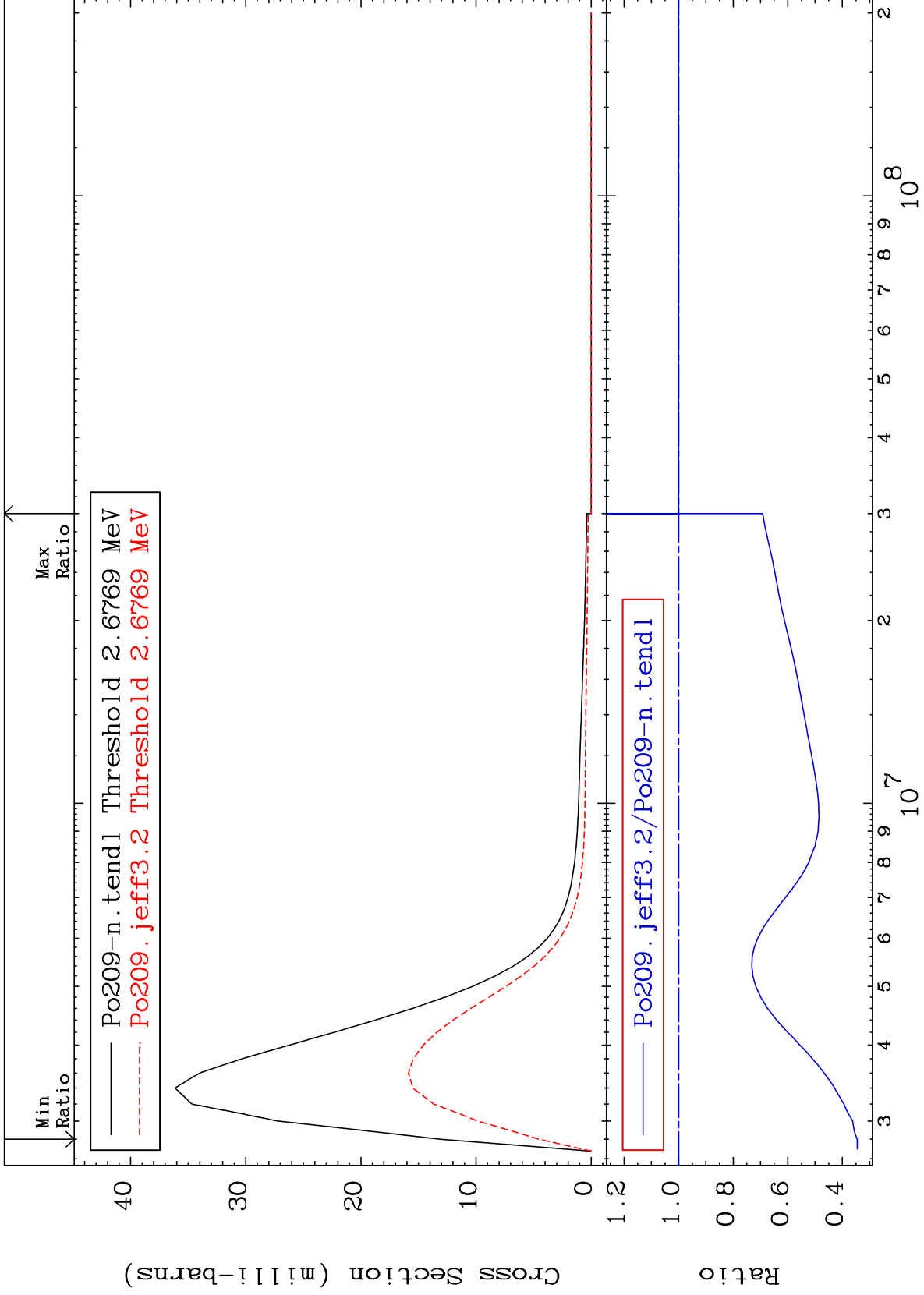
84-Po-209  
-1.084 To 0.093 %



MAT 8434

2.664 MeV (n,n') Level  
Cross Section

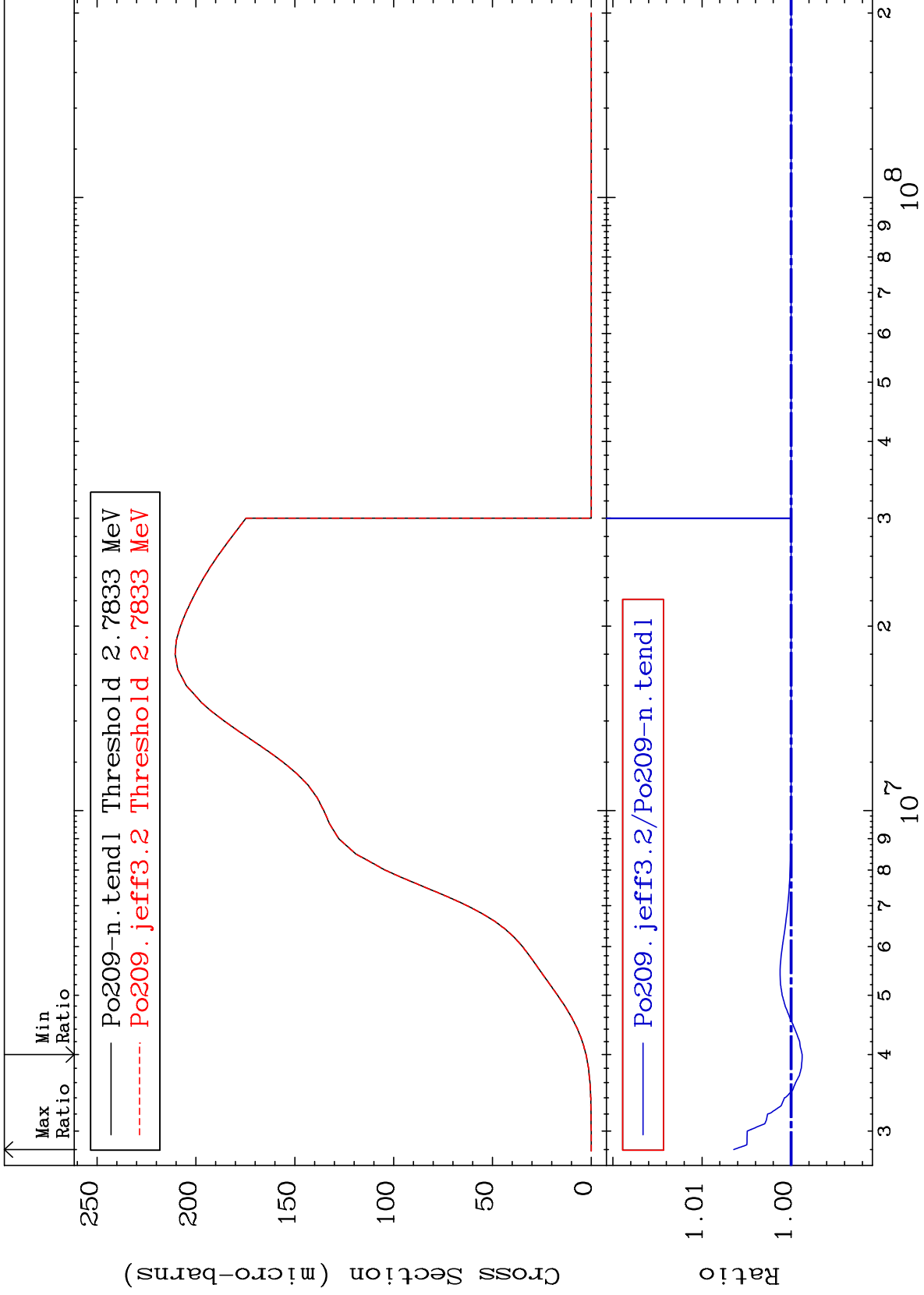
84-Po-209  
-65.47 To 0.000 %



MAT 8434

2.770 MeV (n,n') Level  
Cross Section

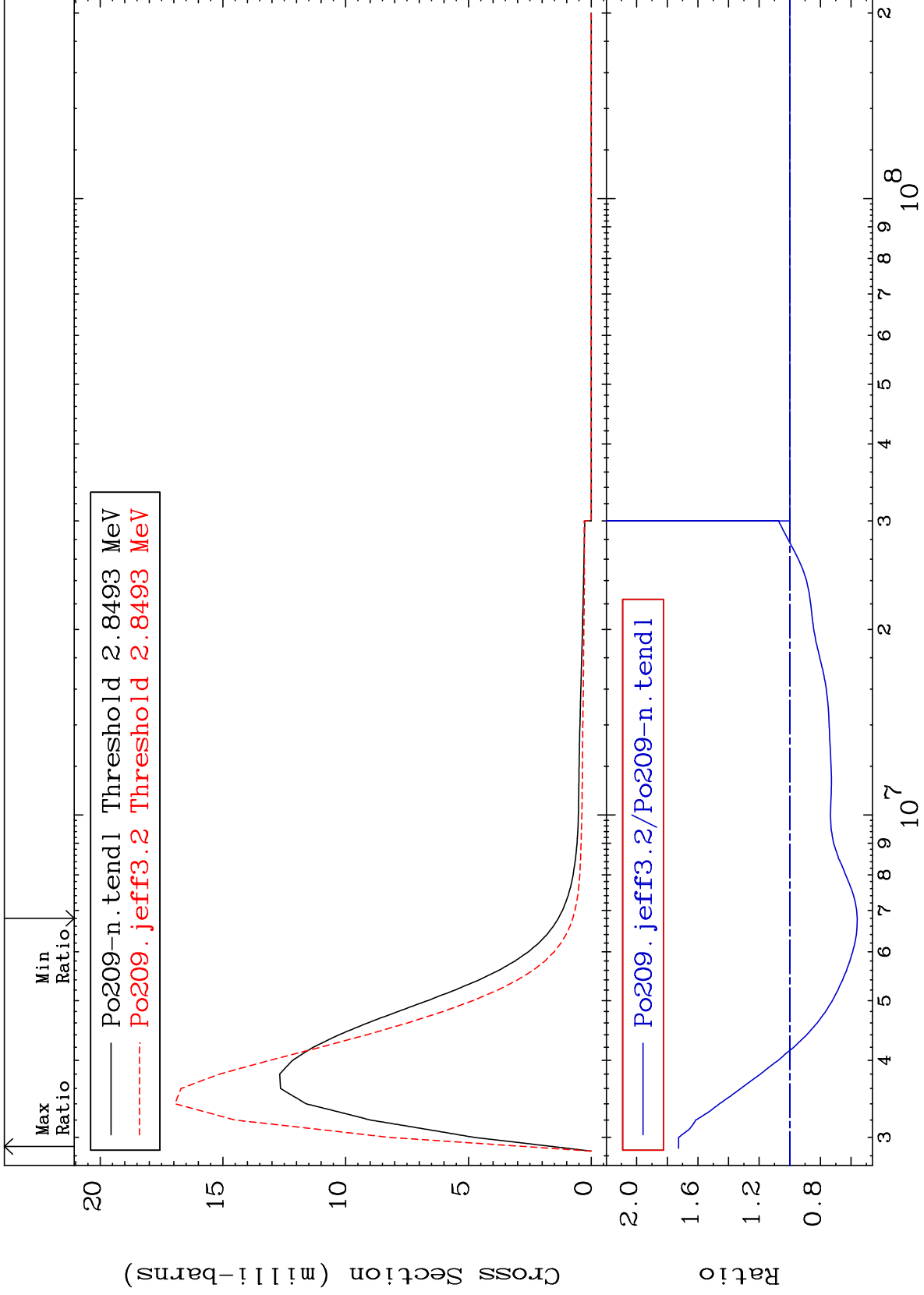
84-Po-209  
-0.124 To 0.645 %



MAT 8434

2.836 MeV (n,n') Level  
Cross Section

84-Po-209  
-44.04 To 72.58 %

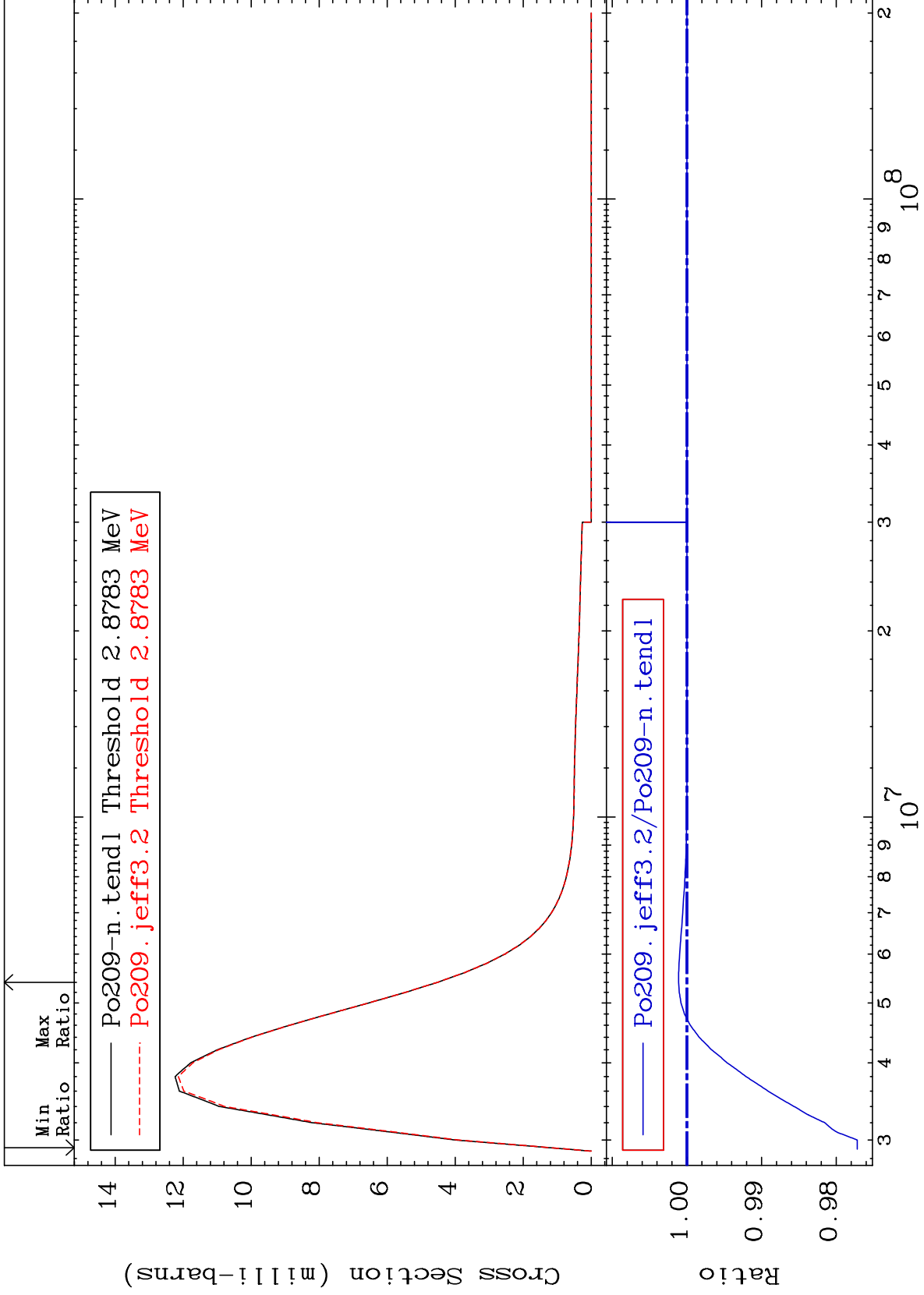




MAT 8434

2.864 MeV (n,n') Level  
Cross Section

84-Po-209  
-2.281 To 0.111 %



49

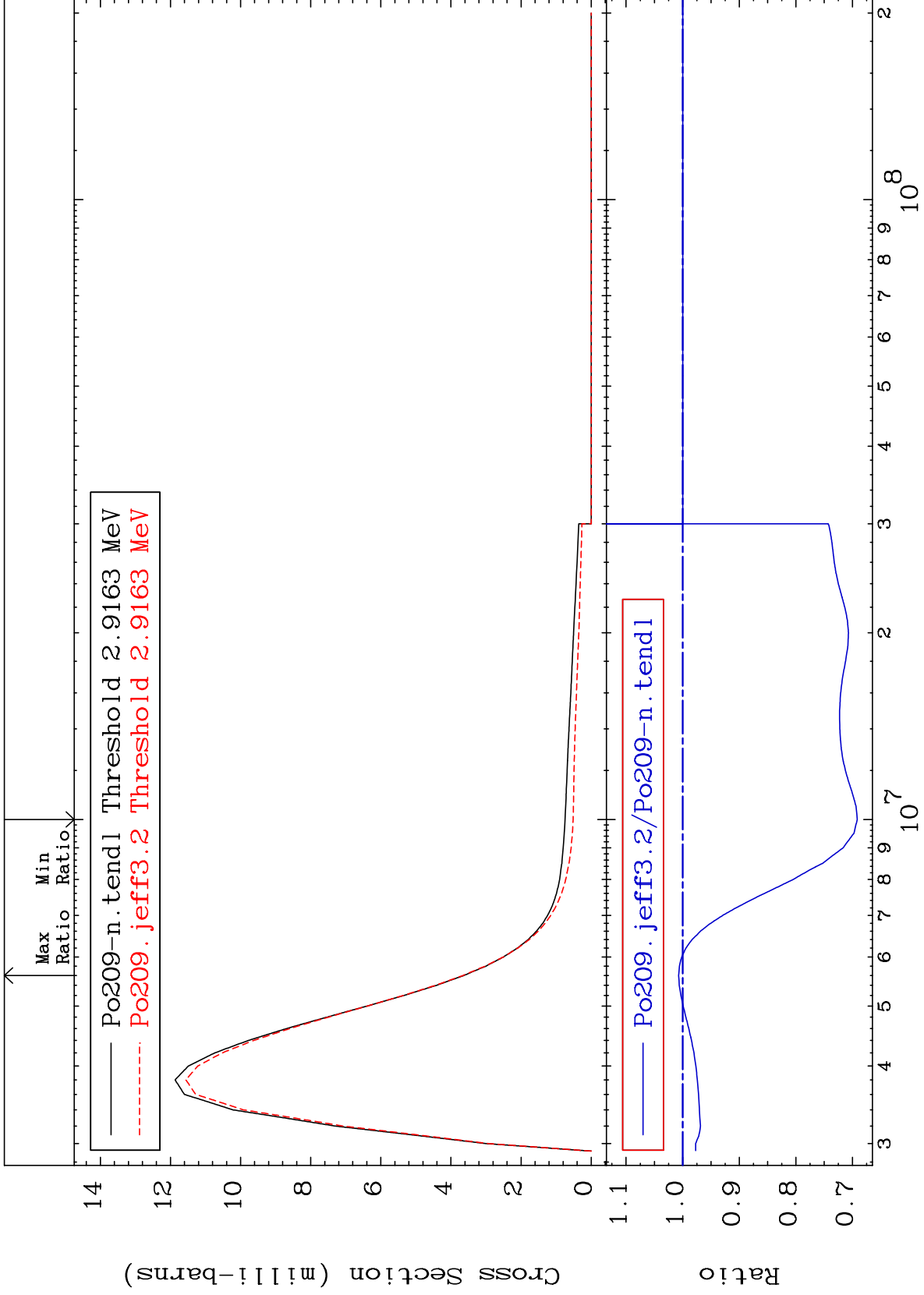
Incident Energy (eV)

84-Po-209

MAT 8434

2.902 MeV (n,n') Level  
Cross Section

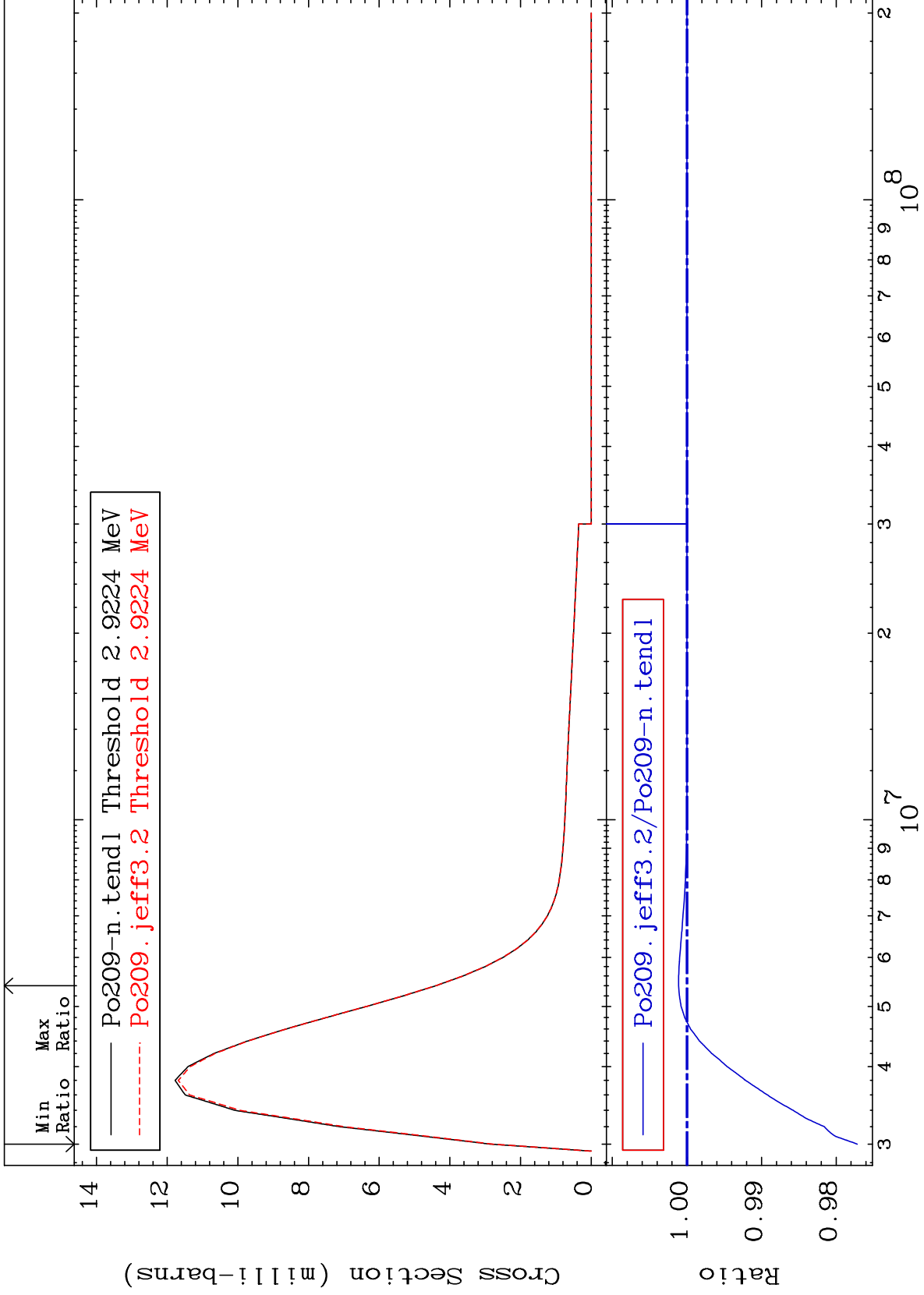
84-Po-209  
-30.84 To 0.714 %

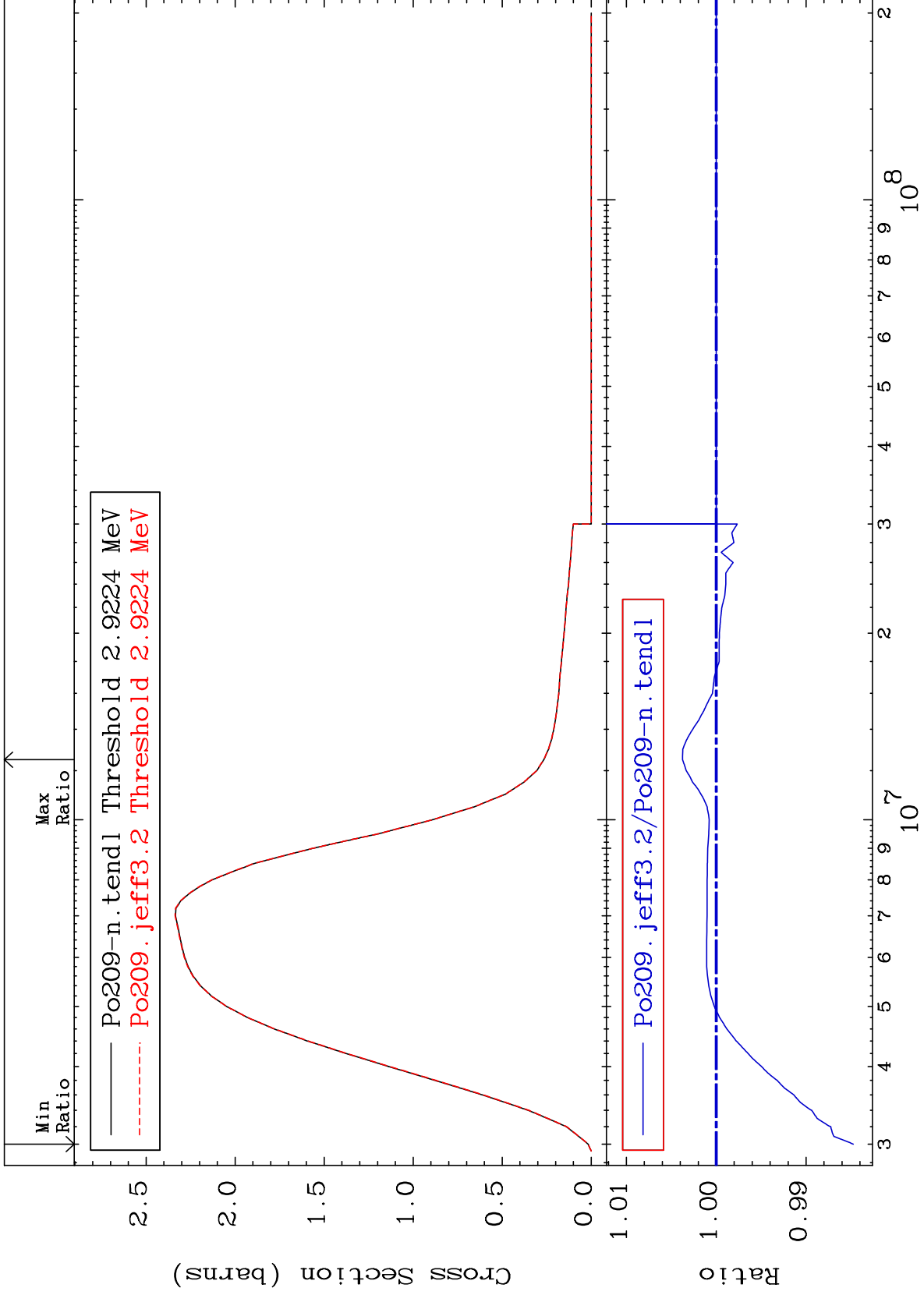


MAT 8434

2.908 MeV (n,n') Level  
Cross Section

84-Po-209  
-2.283 To 0.111 %

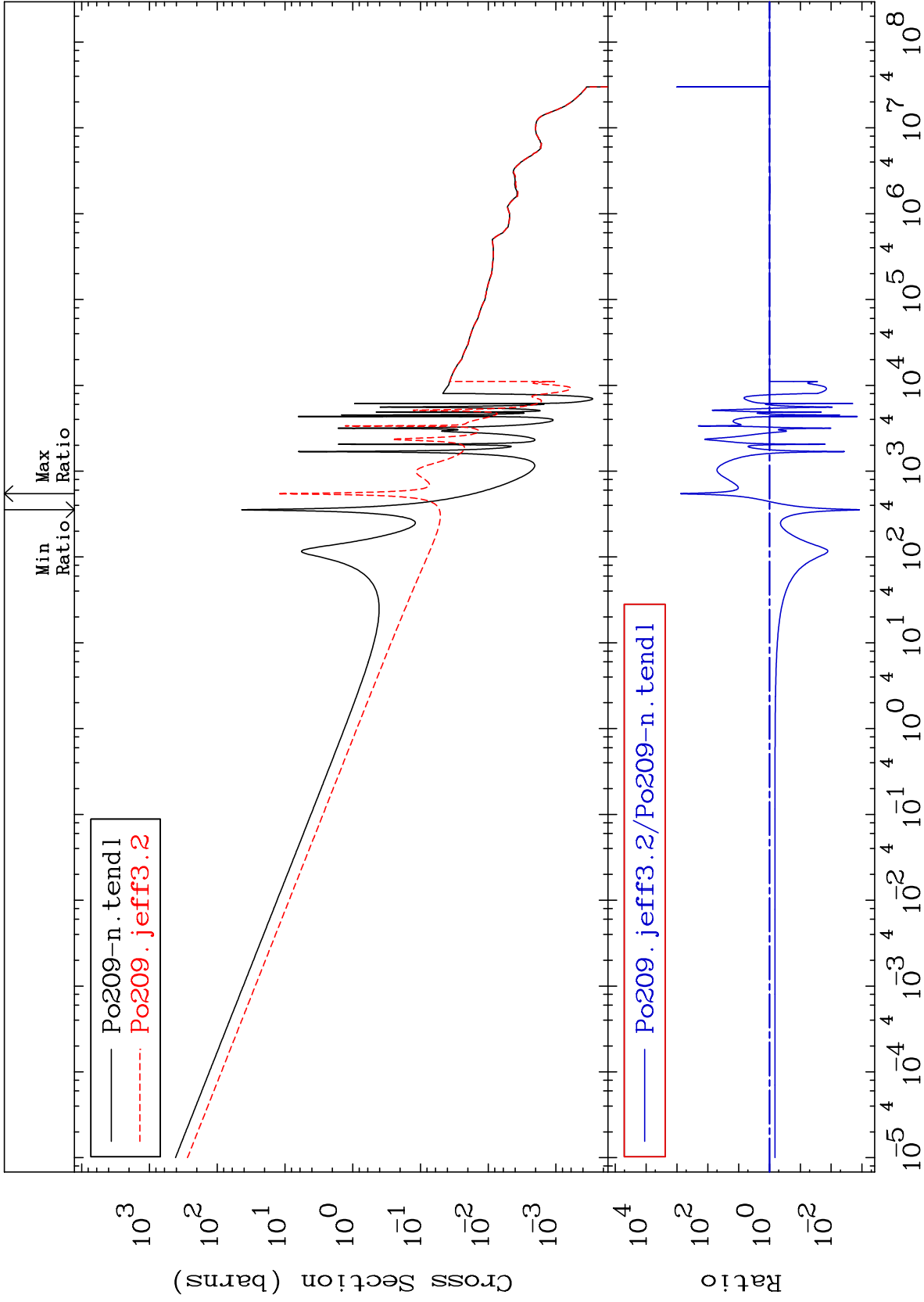




MAT 8434

(n,  $\gamma$ )  
Cross Section

84-Po-209  
-99.88 To 9999. %

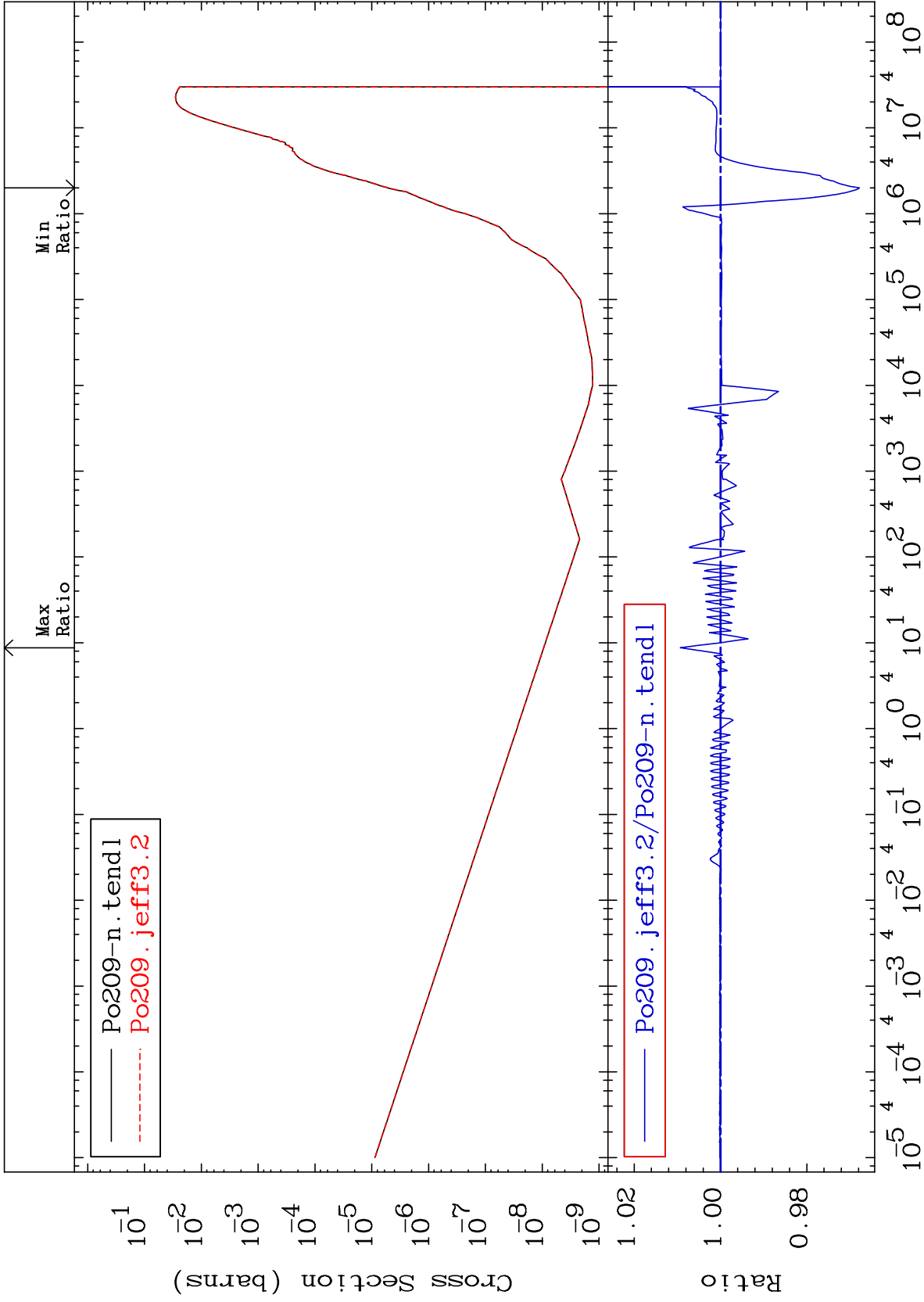


MAT 8434

84-Po-209

(n,p)  
Cross Section

-3.219 To 0.930 %



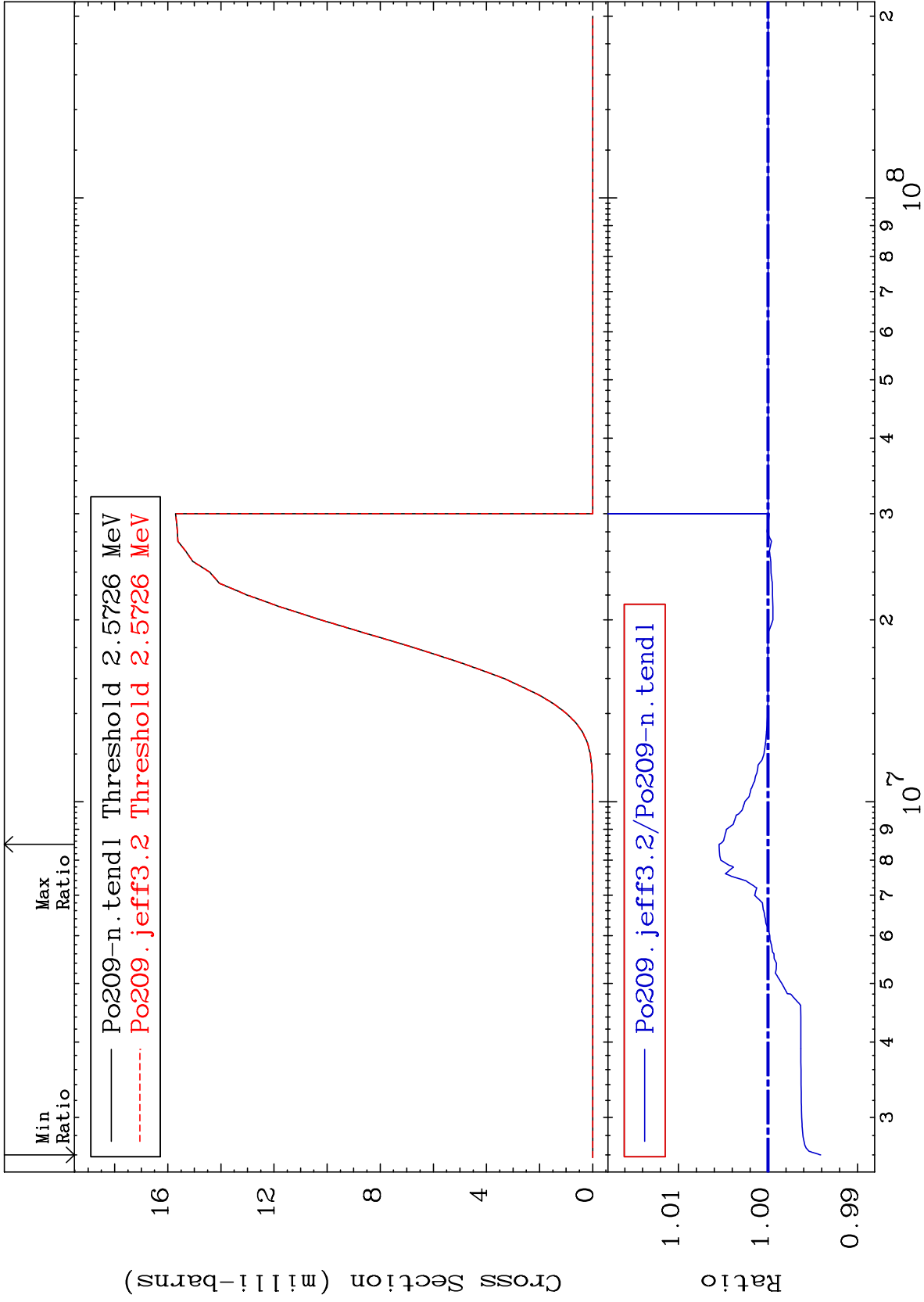
MAT 8434

(n, d)

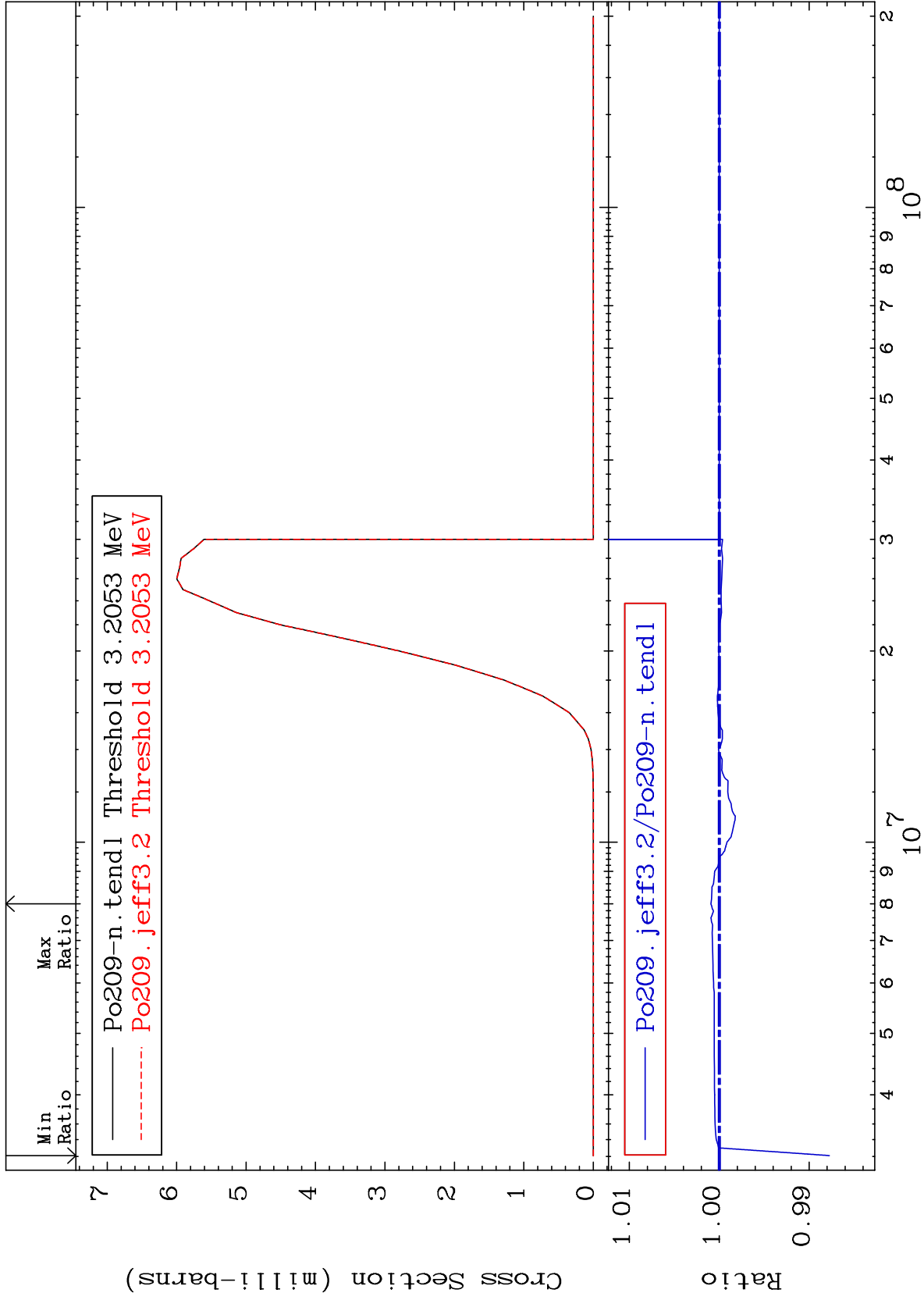
84-Po-209

Cross Section

-0.587 To 0.546 %



(n, t)  
Cross Section  
-1.224 To 0.093 %





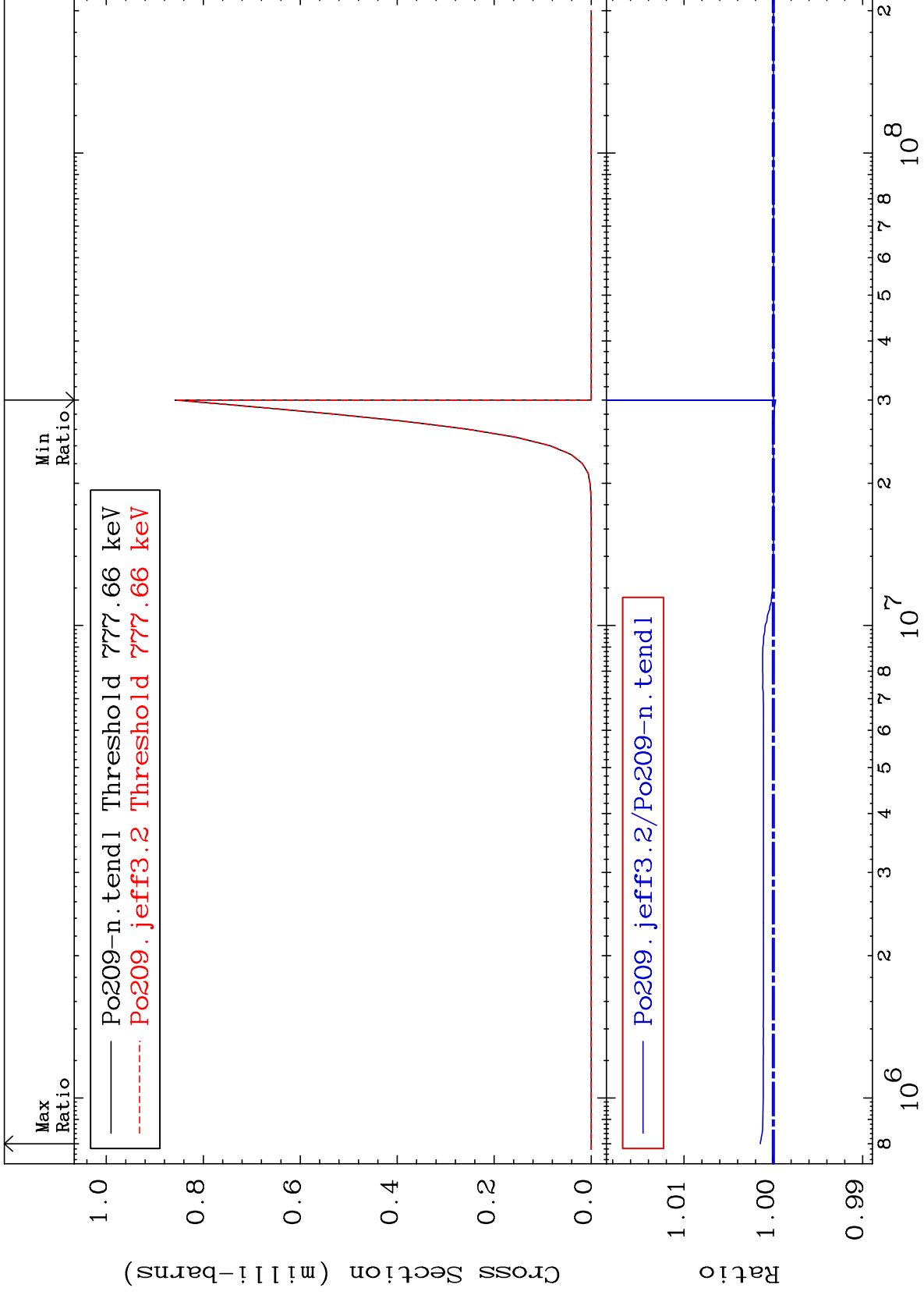
MAT 8434

(n, He-3)

84-Po-209

Cross Section

-0.026 To 0.146 %



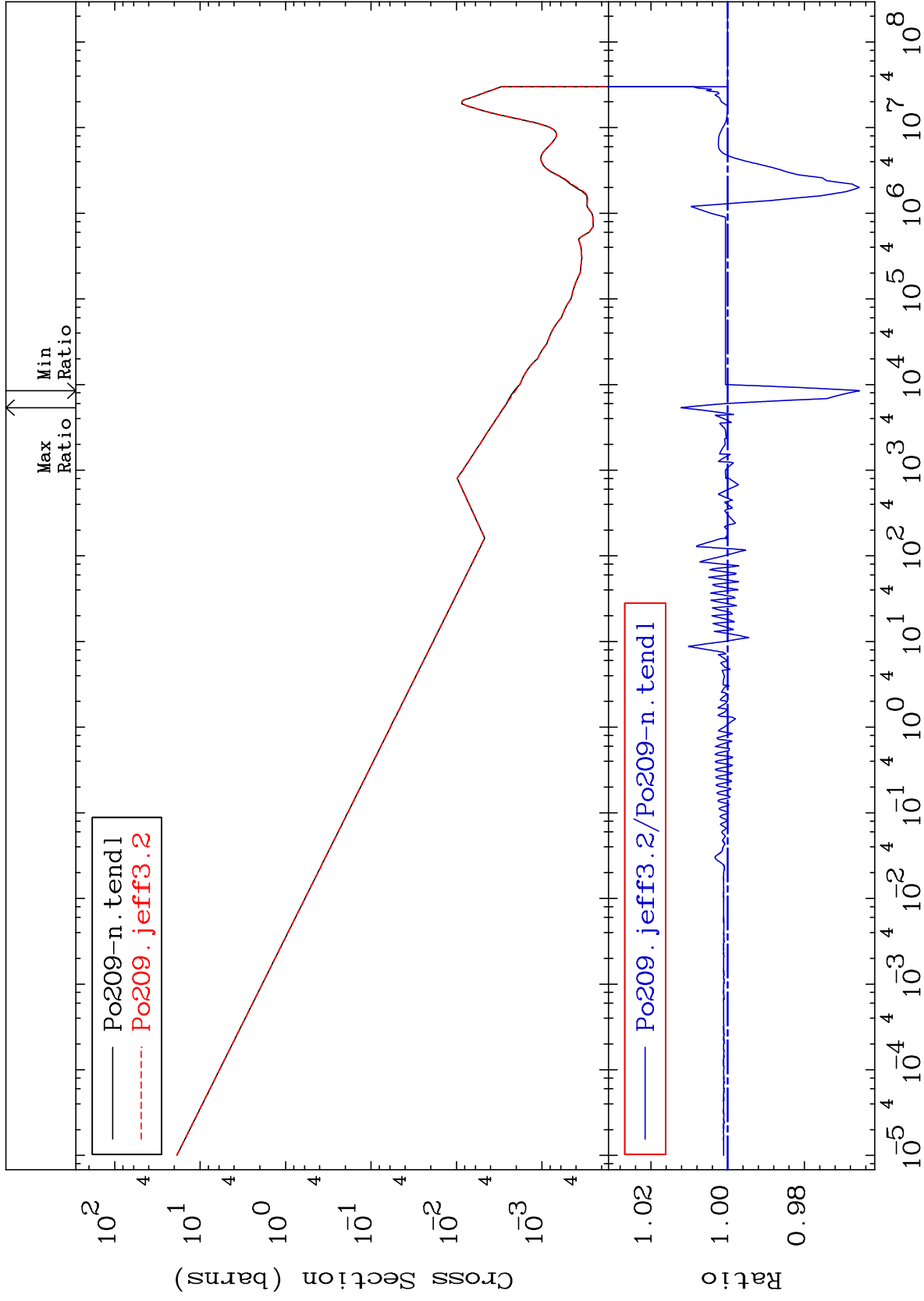
57

Incident Energy (eV)

84-Po-209

Cross Section

-3.437 To 1.221 %



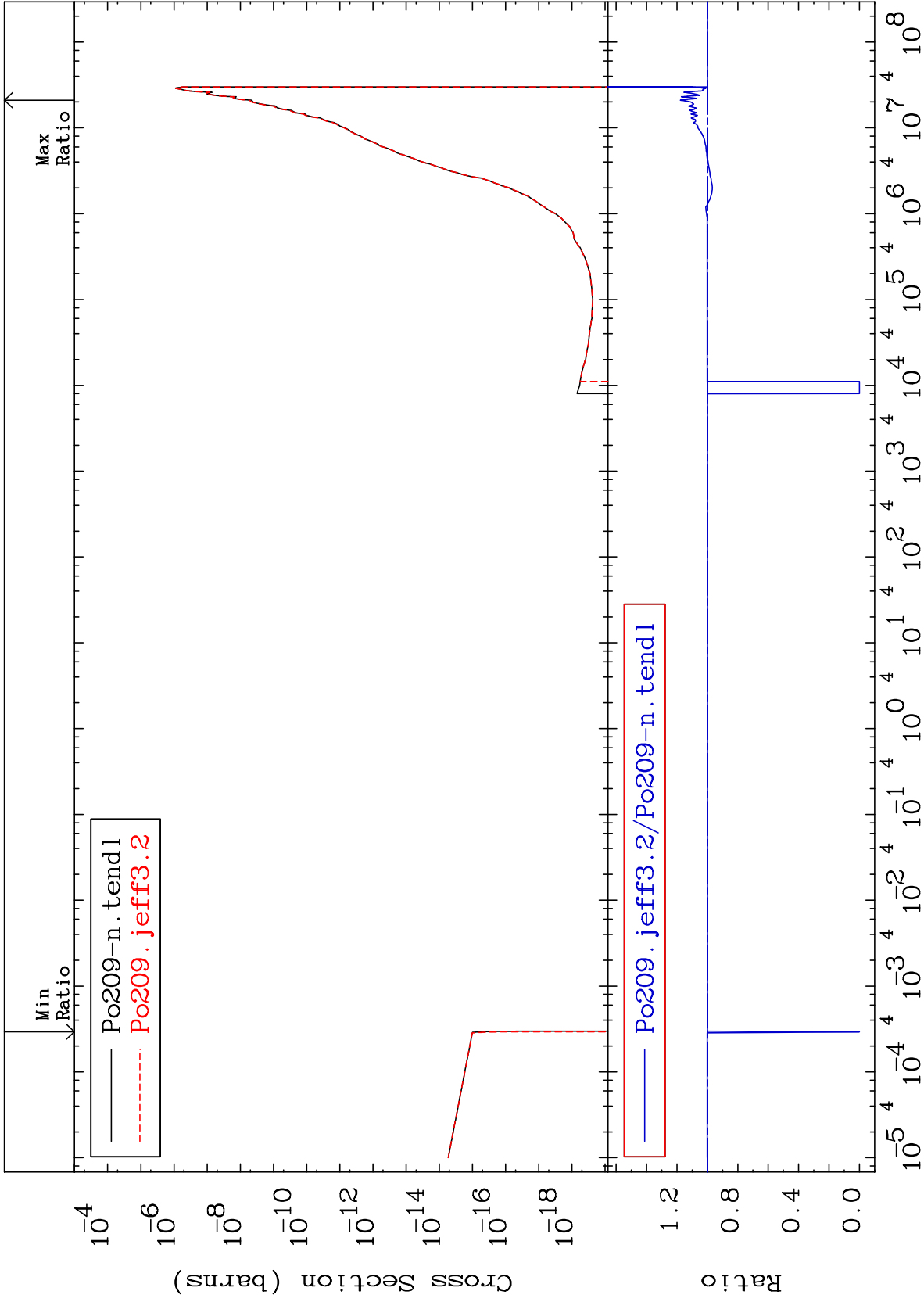
MAT 8434

(n,2α)

84-Po-209

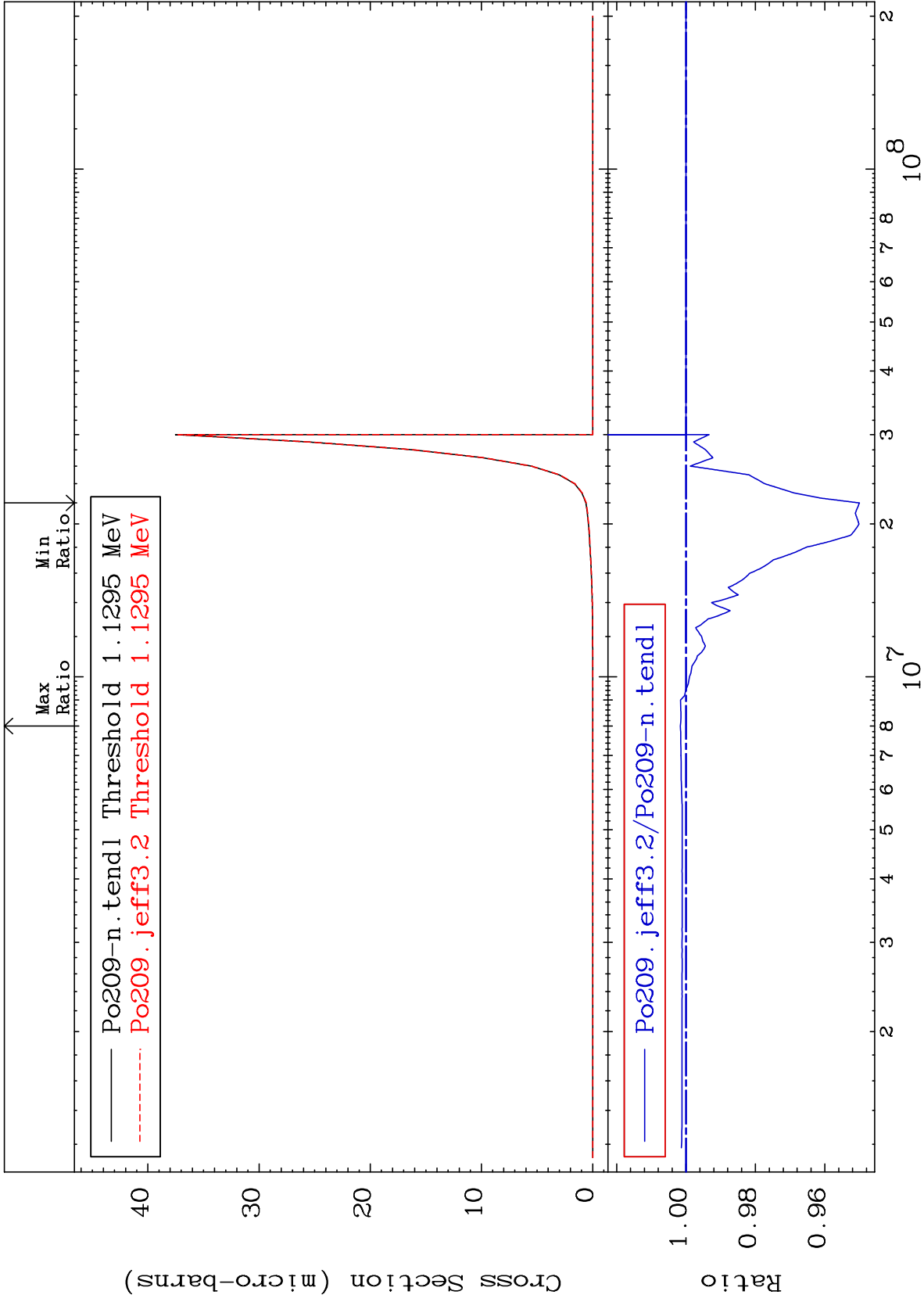
Cross Section

-100.0 To 17.75 %



Cross Section

-4.996 To 0.164 %

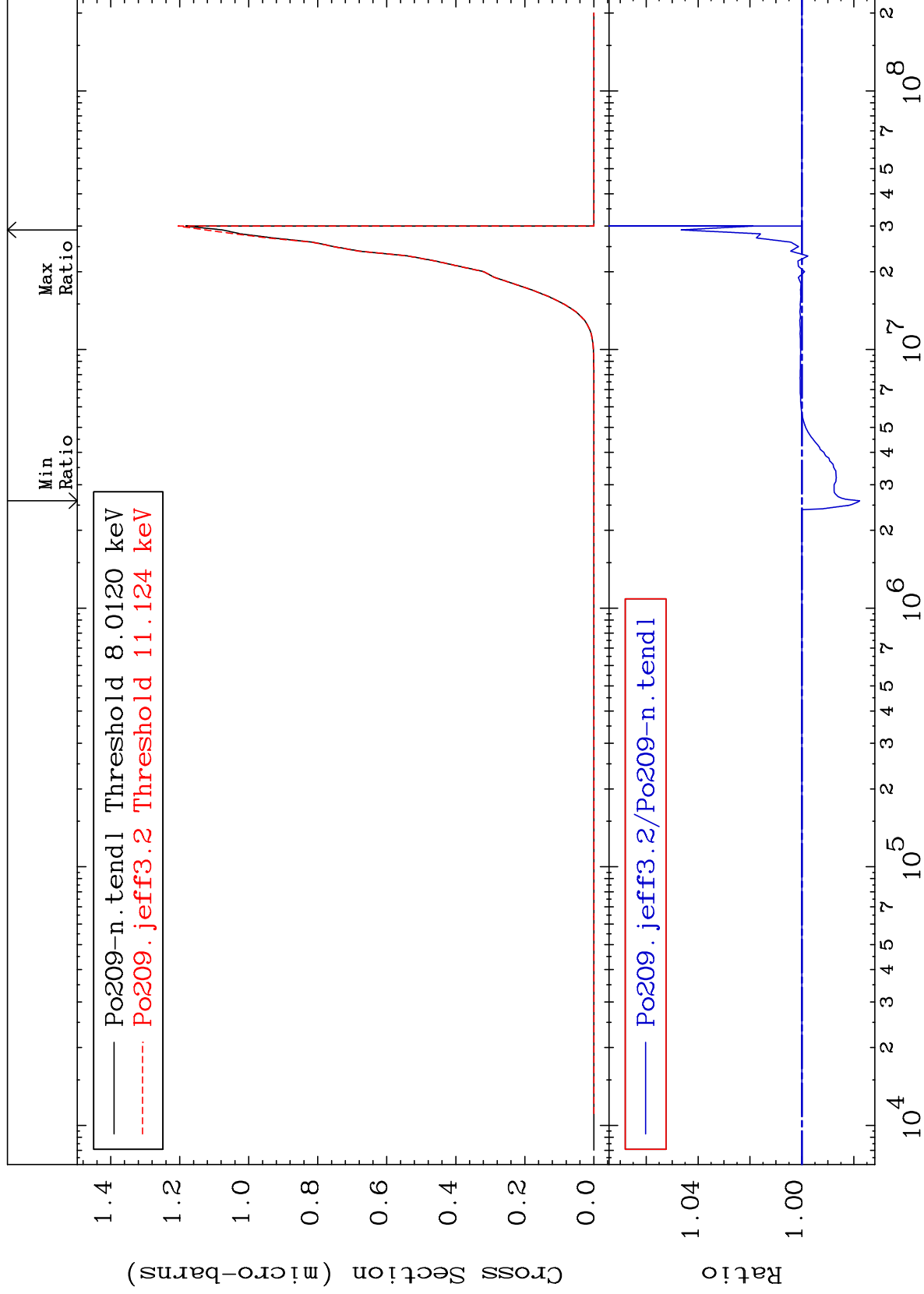


MAT 8434

(n,p)  $\alpha$   
Cross Section

84-Po-209

-2.223 To 4.651 %



61

Incident Energy (eV)

84-Po-209

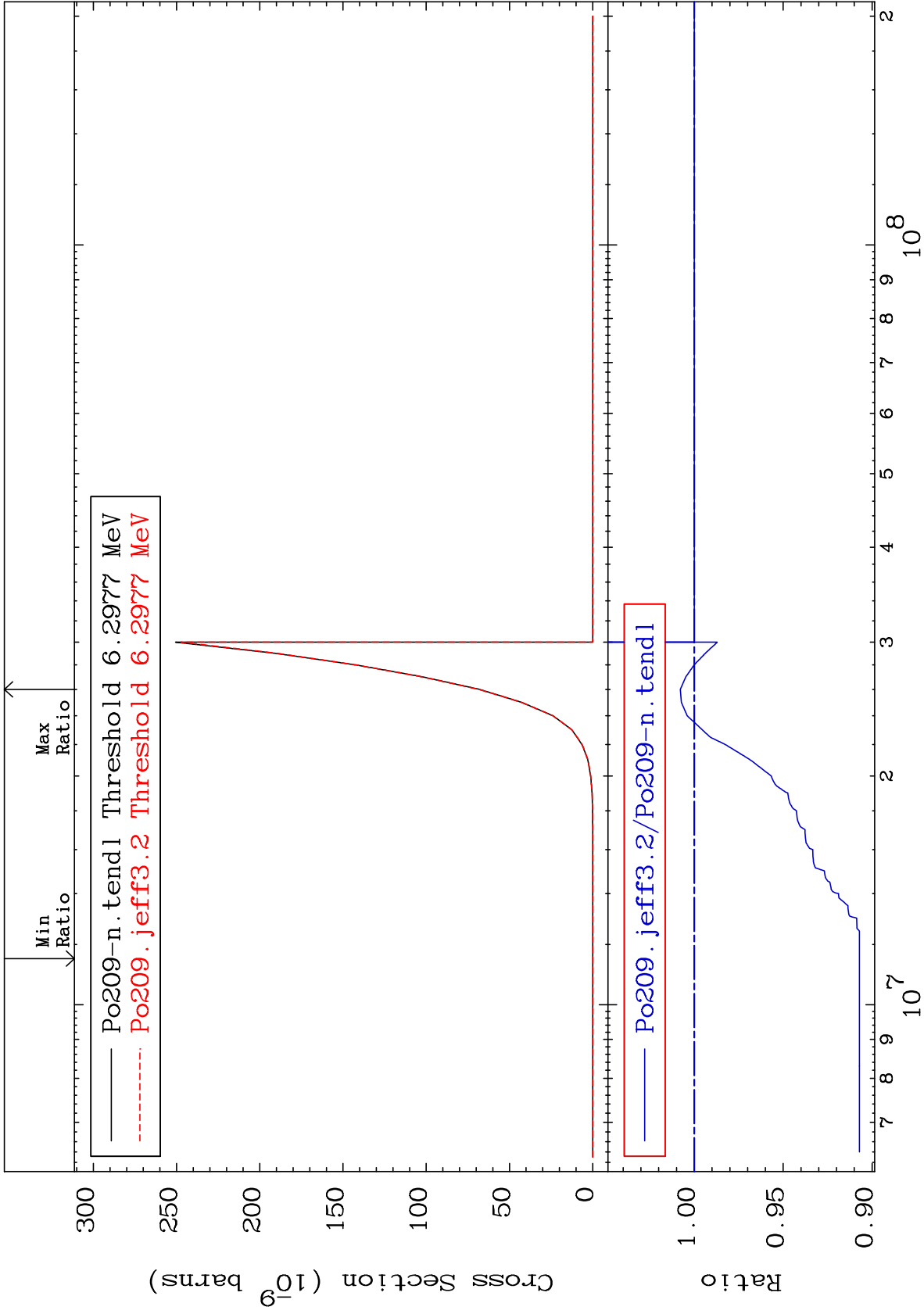
MAT 8434

(n,p) d

84-Po-209

Cross Section

-9.289 To 0.783 %



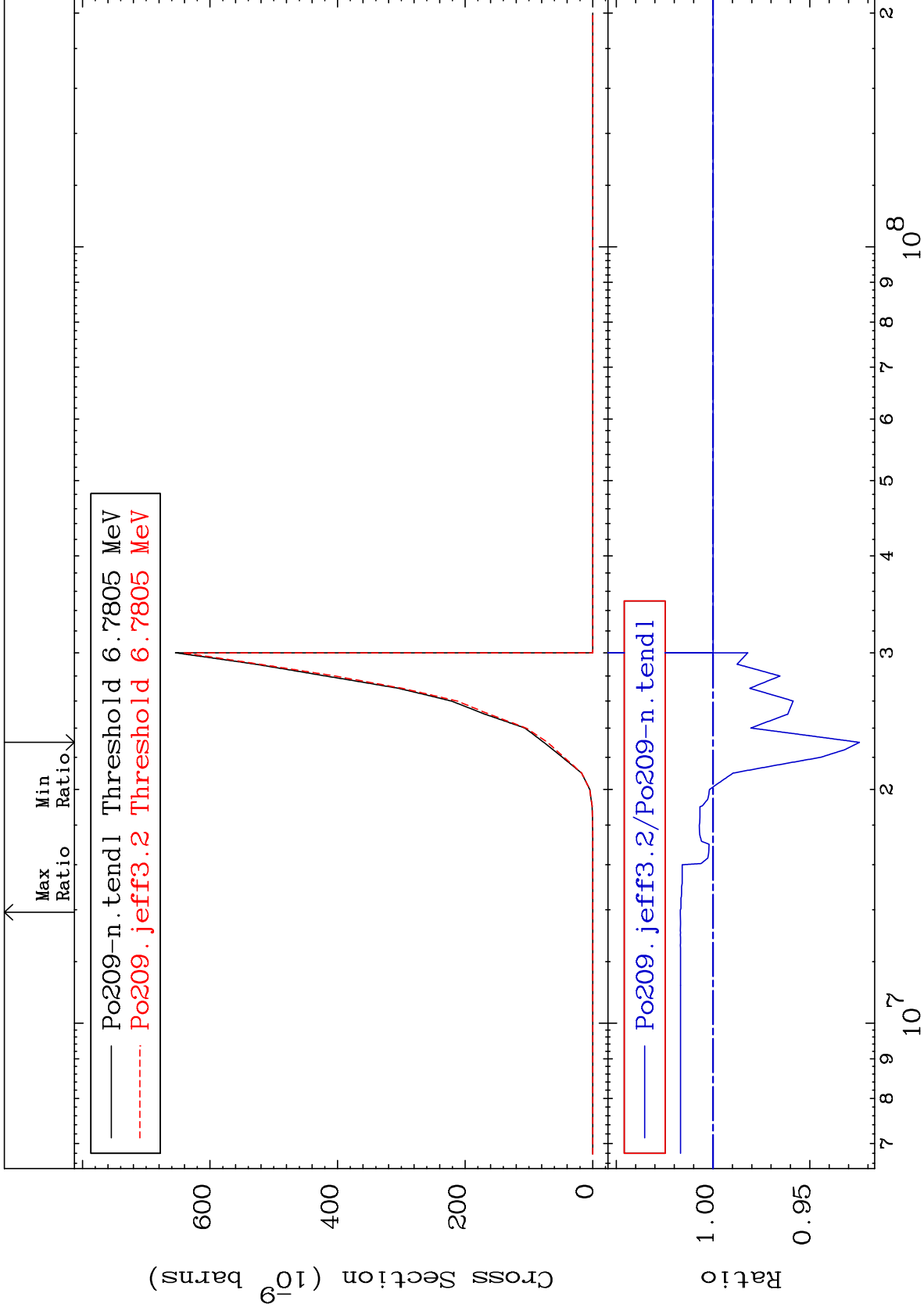
MAT 8434

(n,p) t

84-Po-209

Cross Section

-7.563 To 1.688 %



63

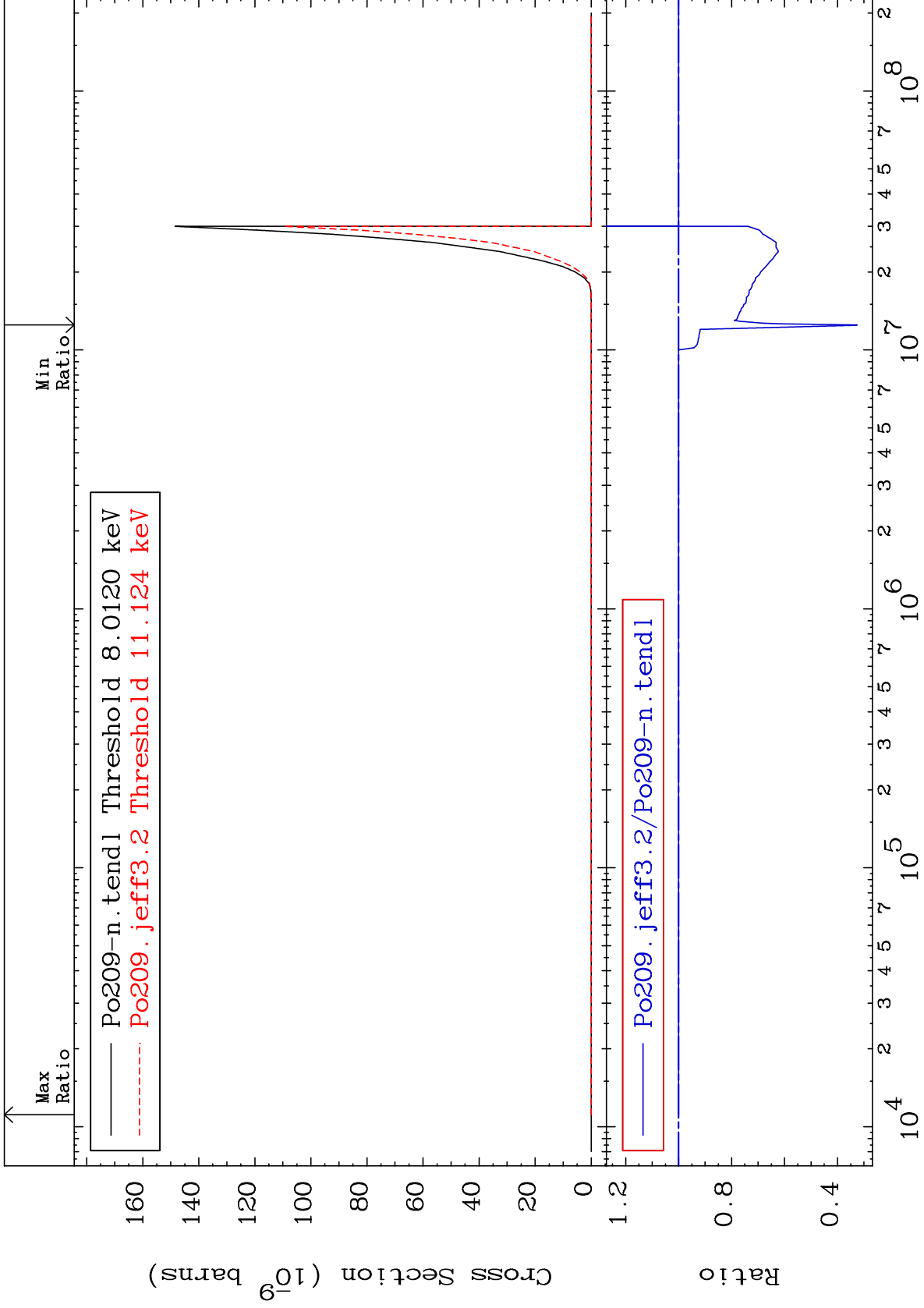
Incident Energy (eV)

84-Po-209

MAT 8434

(n, d)  $\alpha$   
Cross Section

84-Po-209  
-67.47 To 0.000 %



64

Incident Energy (eV)

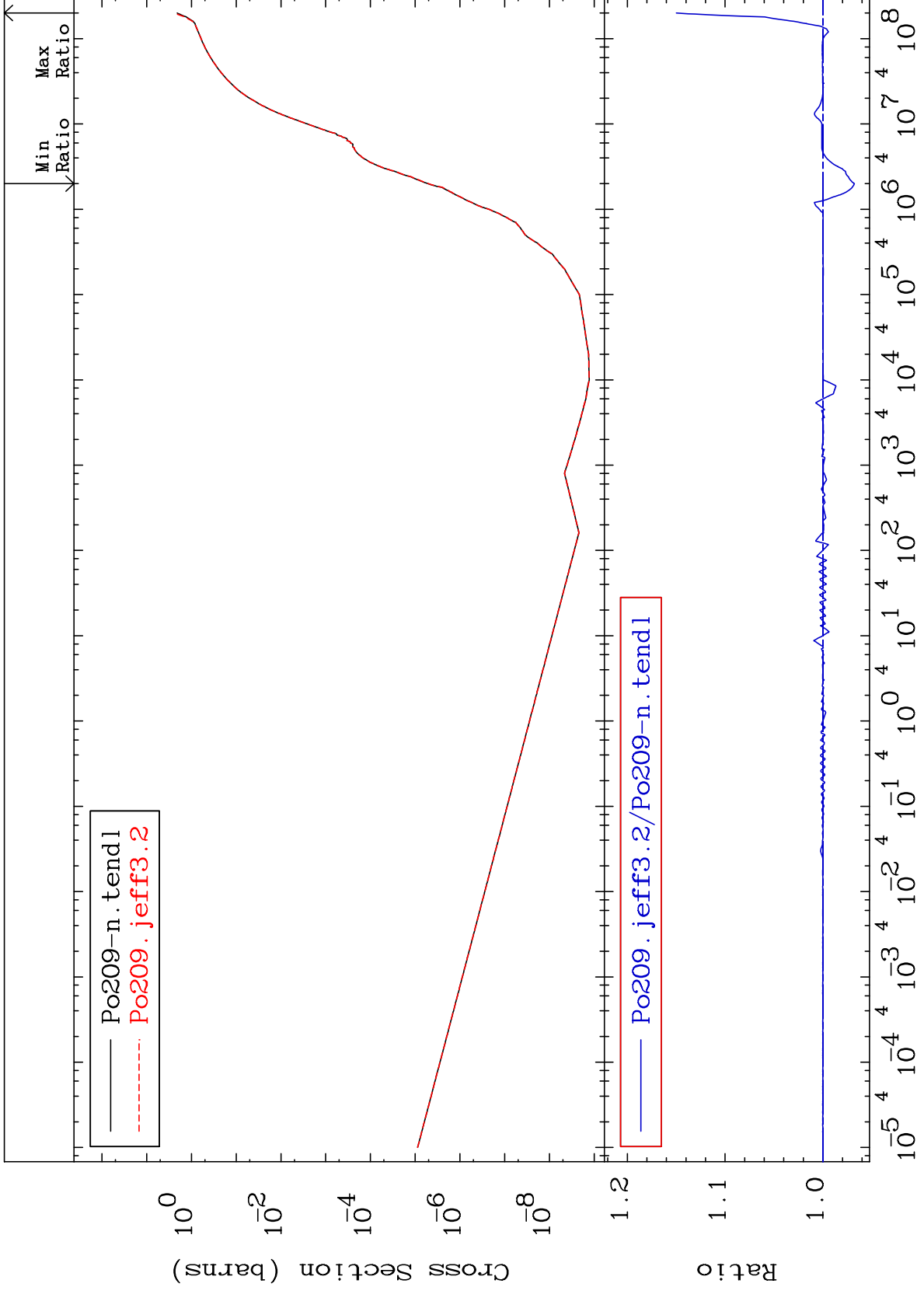
84-Po-209



MAT 8434

Hydrogen Production  
Cross Section

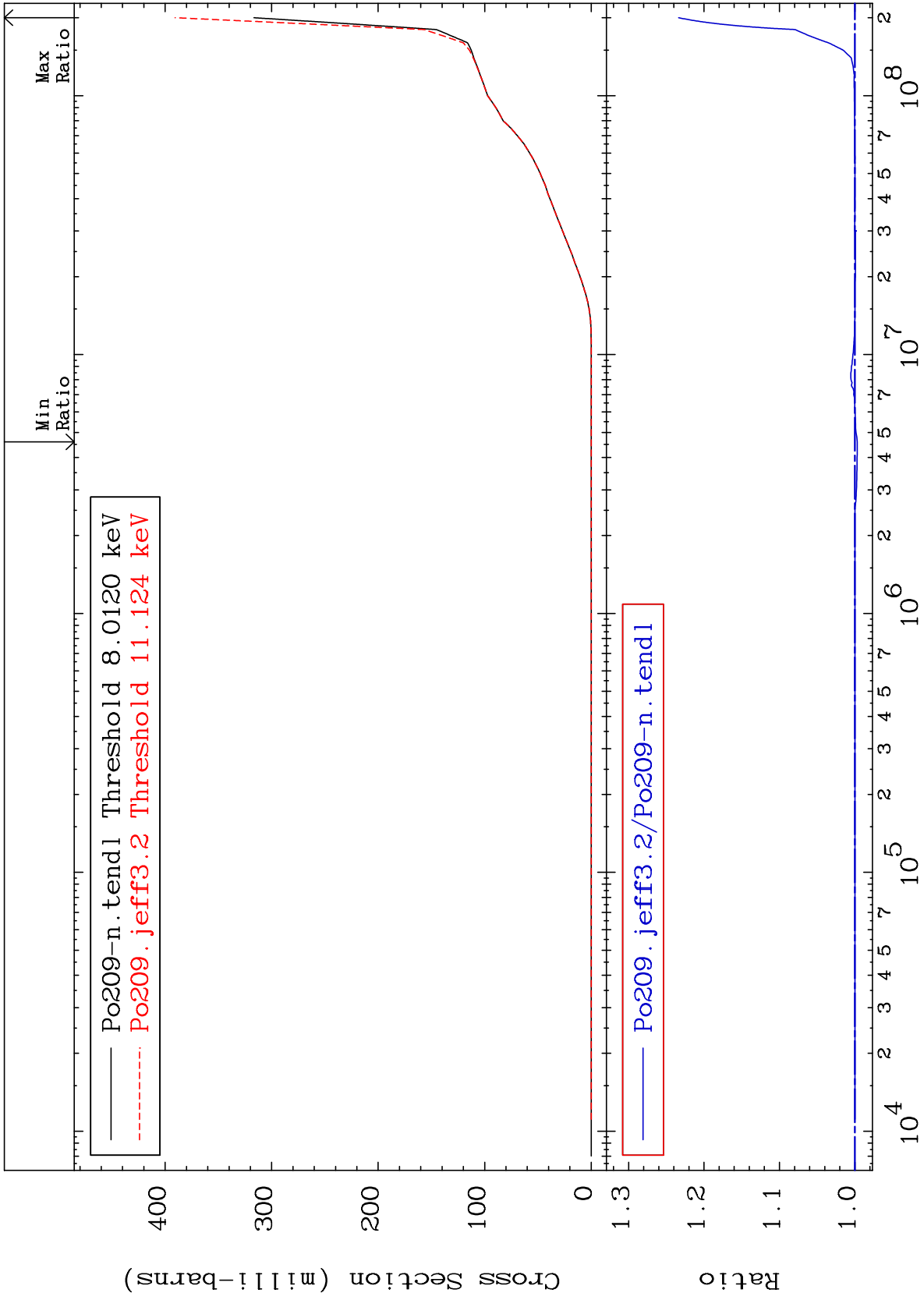
84-Po-209  
-3.219 To 14.98 %



MAT 8434

Deuterium Production  
Cross Section

84-Po-209  
-0.310 To 23.36 %



66

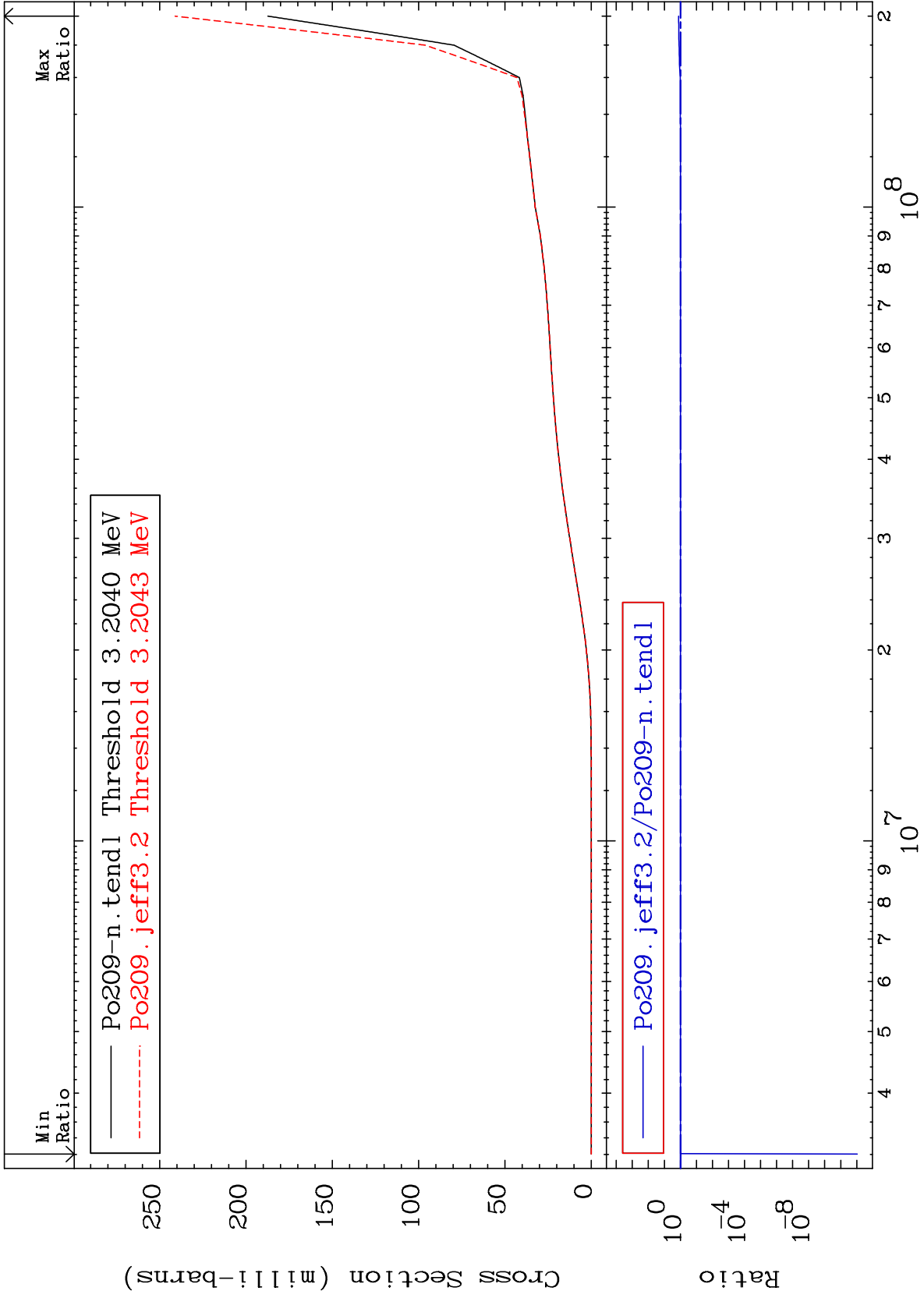
Incident Energy (eV)

84-Po-209

MAT 8434

Tritium Production  
Cross Section

84-Po-209  
-100.0 To 28.73 %



67

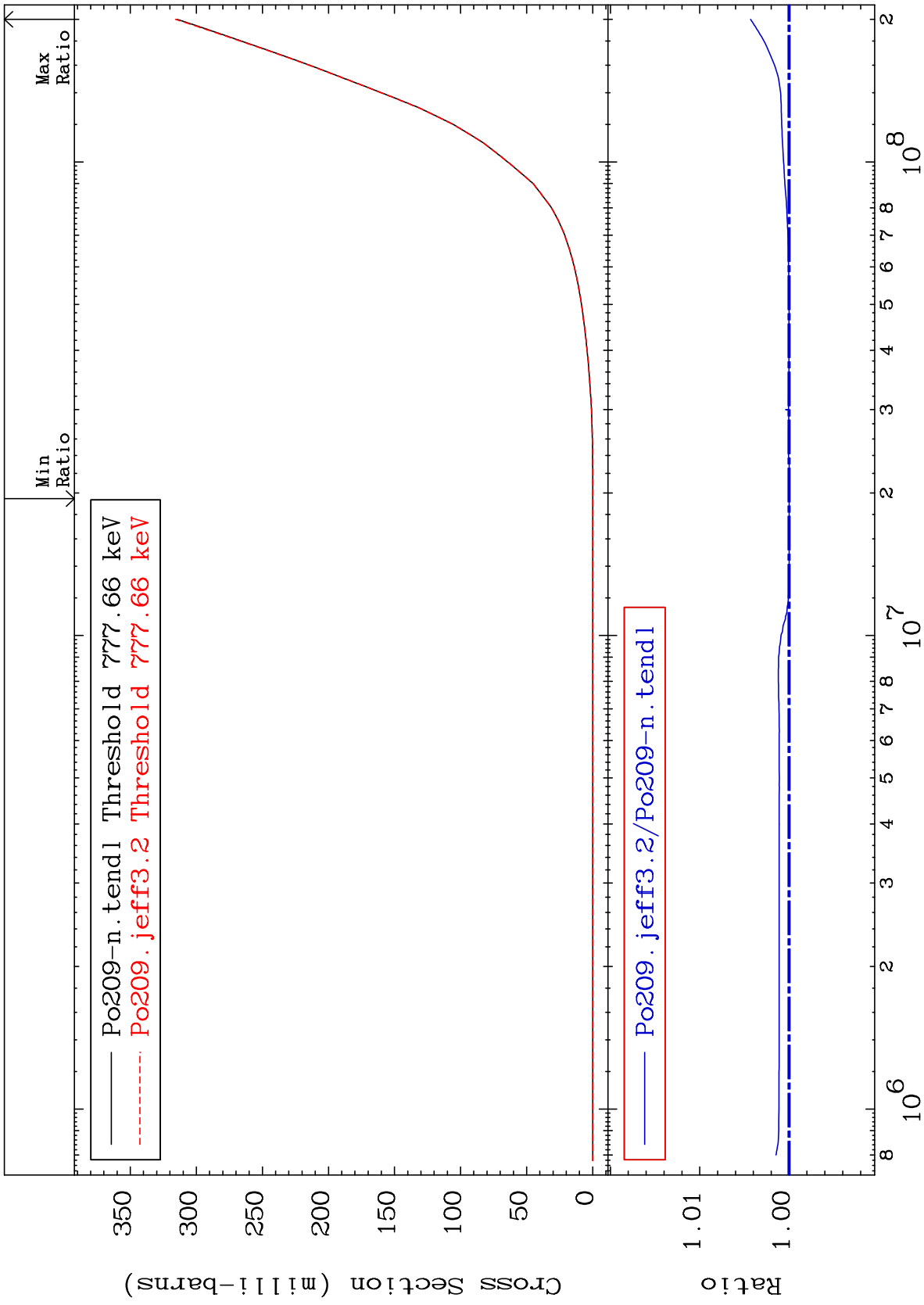
Incident Energy (eV)

84-Po-209

MAT 8434

He-3 Production  
Cross Section

84-Po-209  
-0.001 To 0.431 %



68

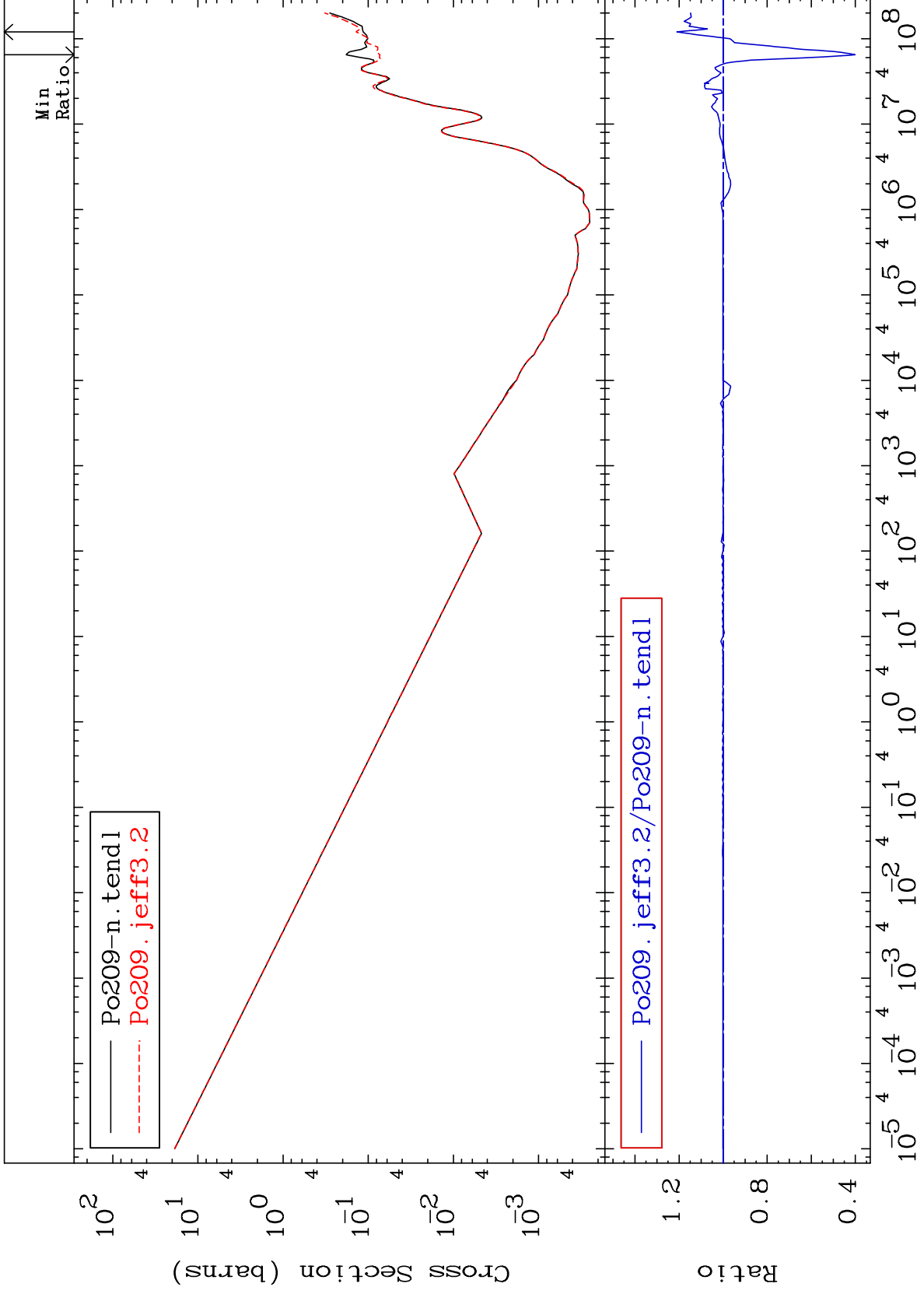
Incident Energy (eV)

84-Po-209

MAT 8434

He-4 Production  
Cross Section

84-Po-209  
-59.87 To 20.98 %



69

Incident Energy (eV)

84-Po-209

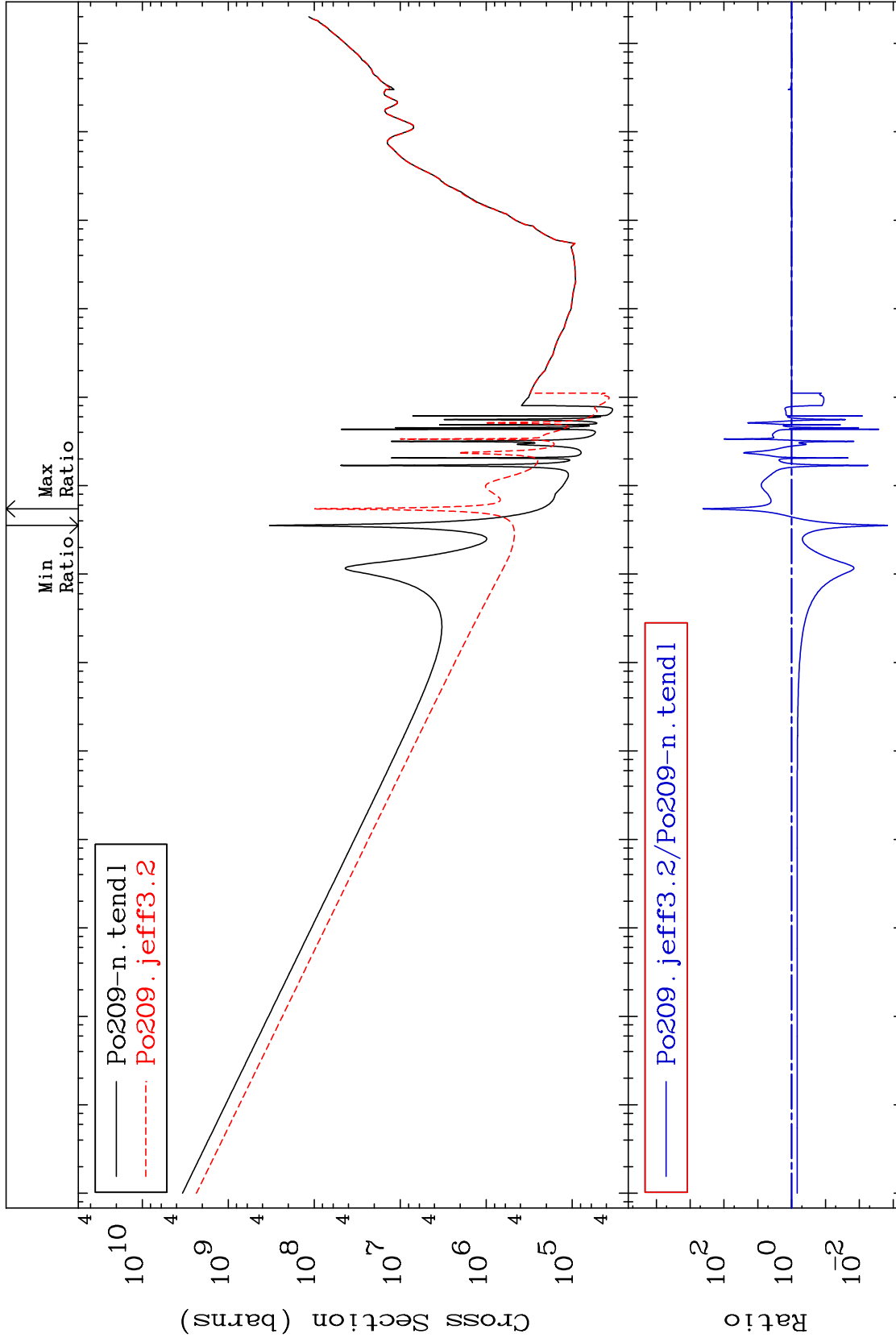
MAT 8434

Kerma total (eV-barns)

84-Po-209

-99.85 To 9999. %

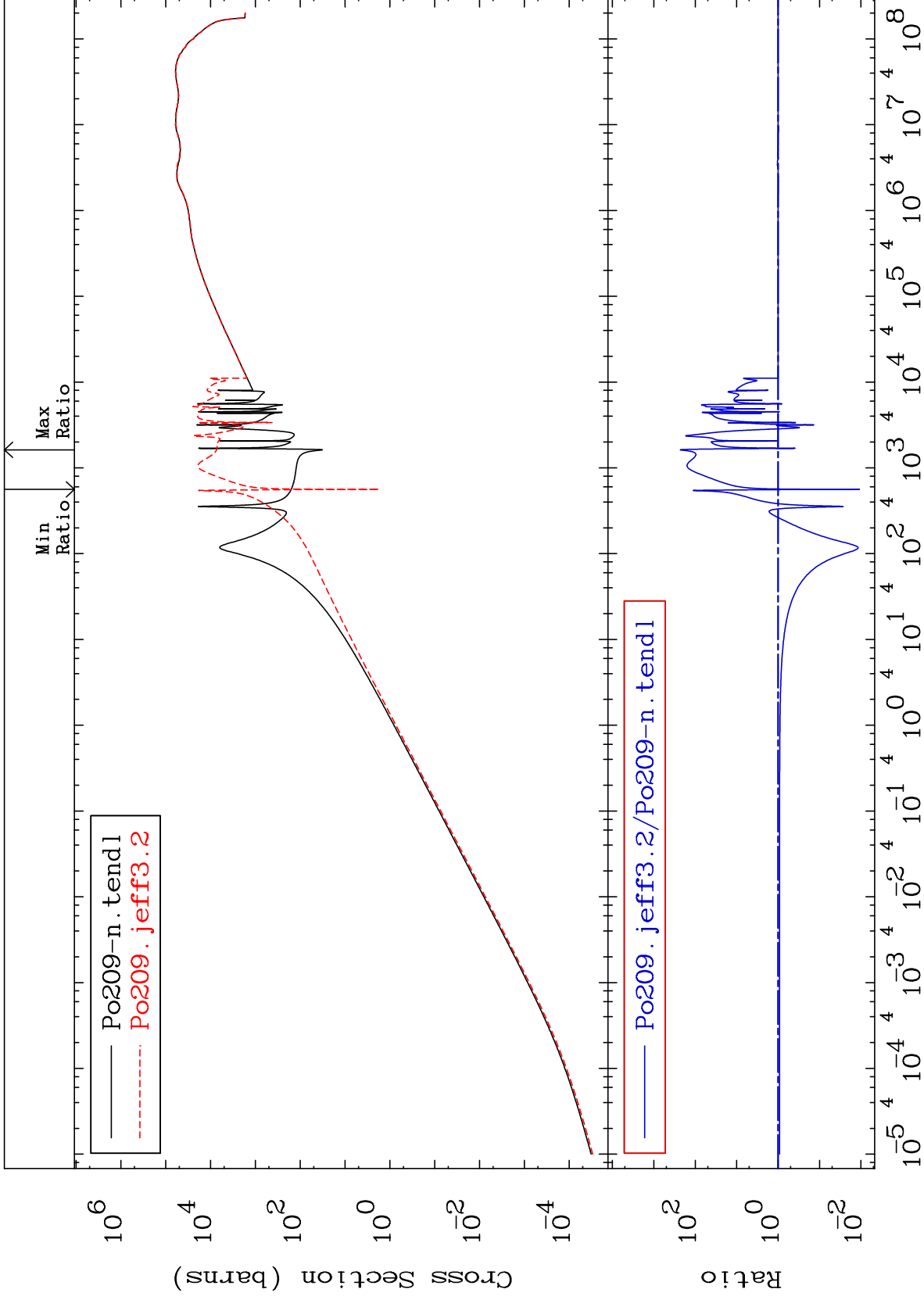
Cross Section

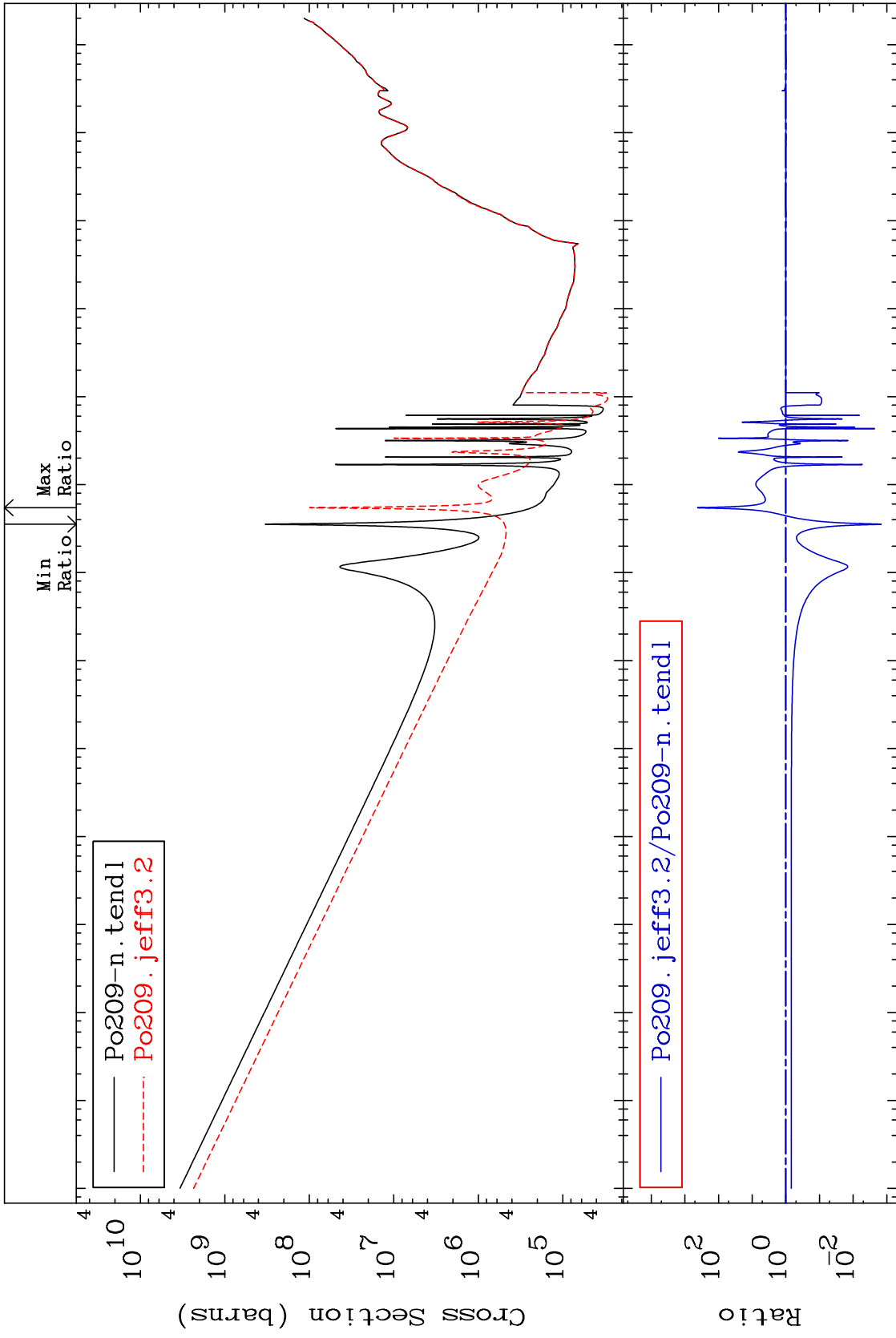


70

Incident Energy (eV)

84-Po-209



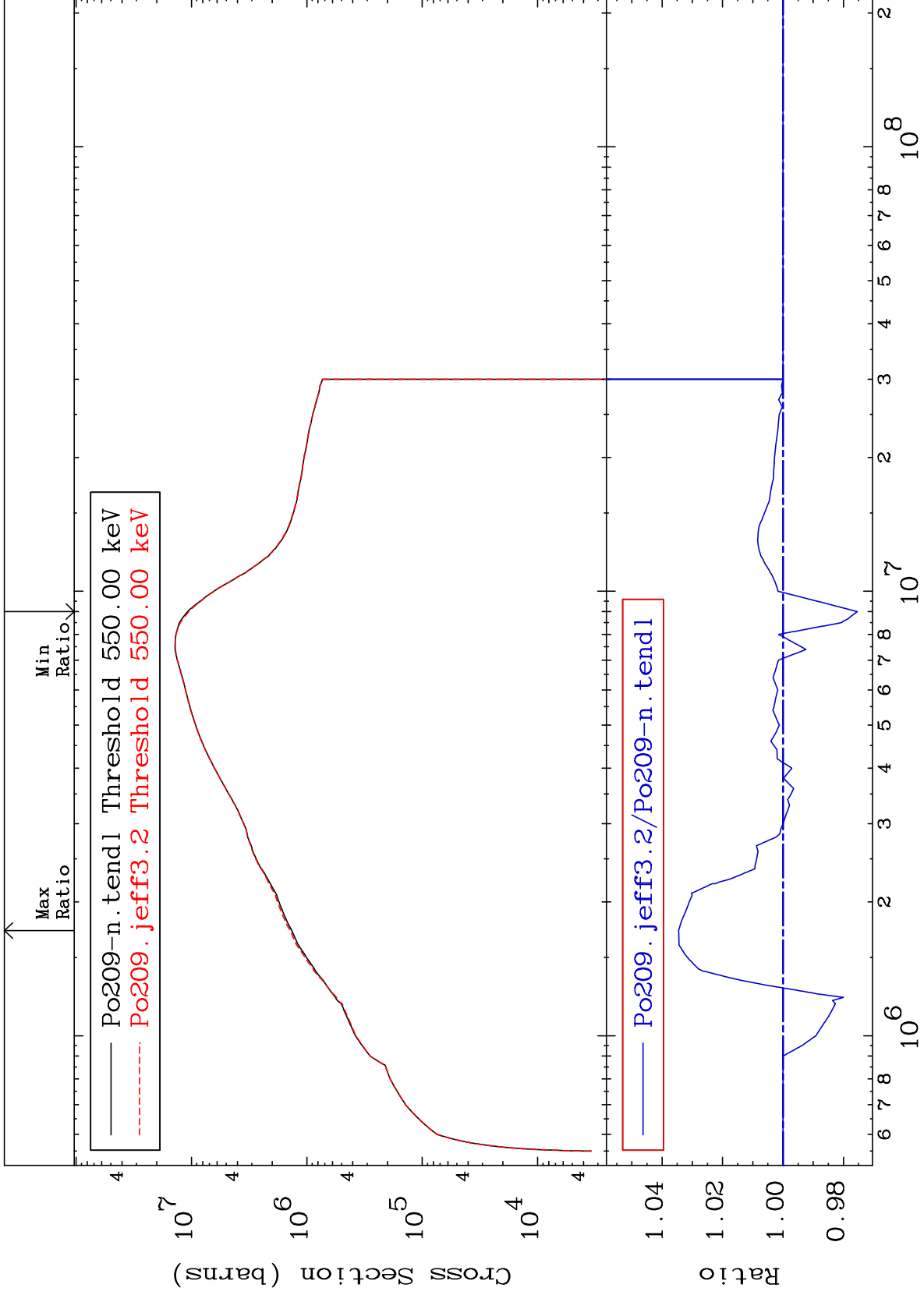




MAT 8434

Kerma inelastic (mt51-91)  
Cross Section

84-Po-209  
-2.456 To 3.453 %



73

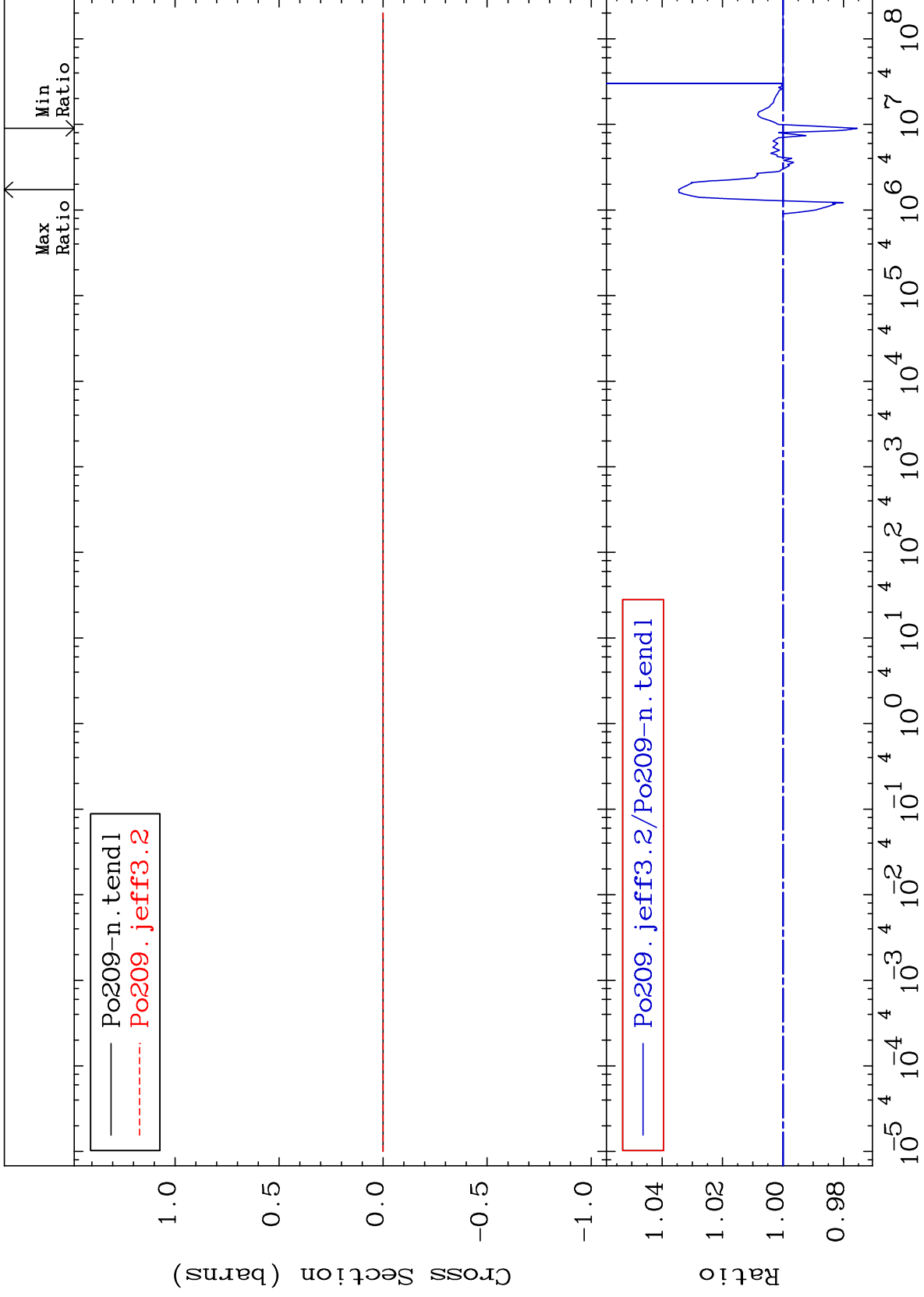
Incident Energy (eV)

84-Po-209

MAT 8434

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

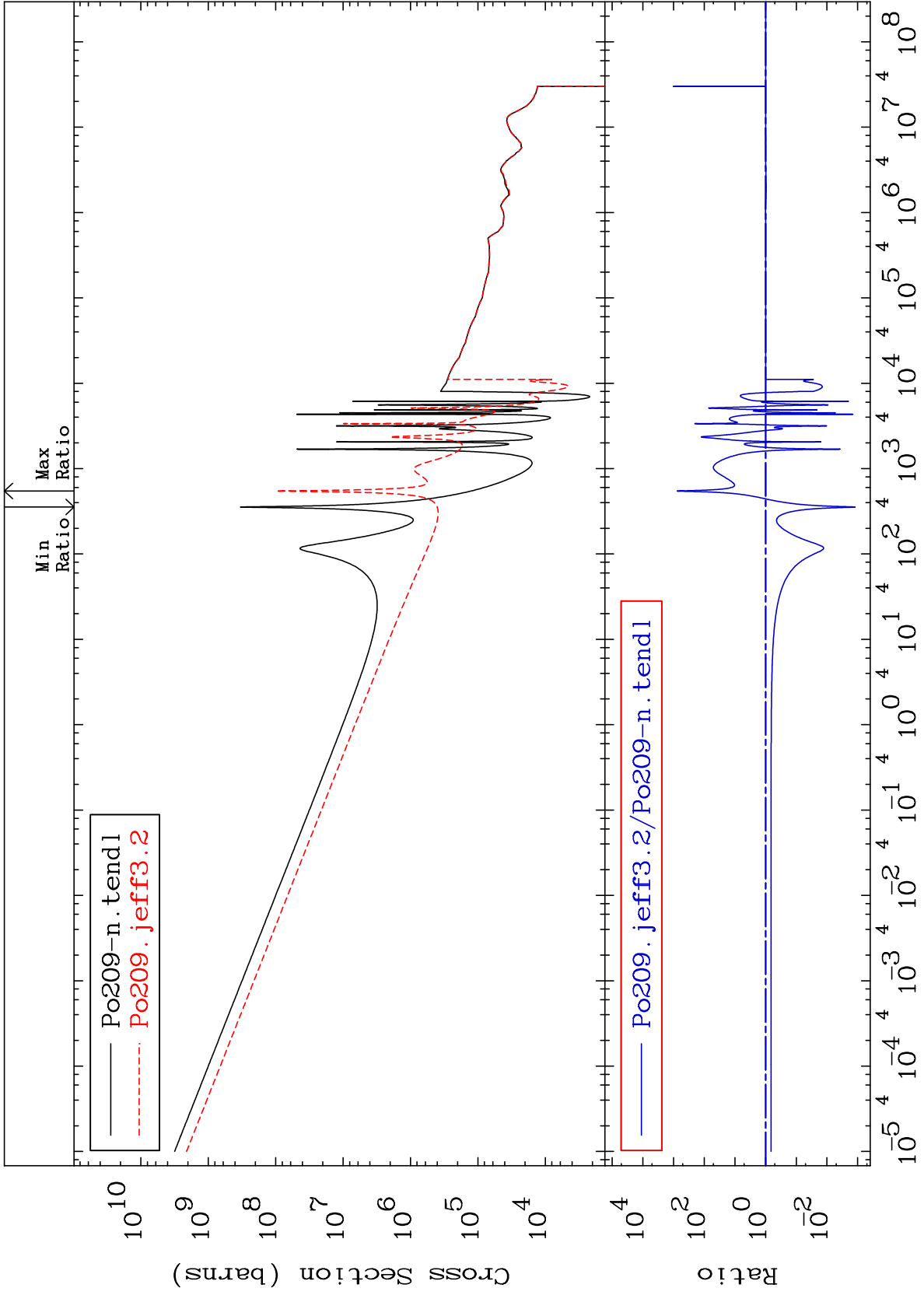
84-Po-209  
-2.456 To 3.453 %



MAT 8434

Kerma capture (mt102)  
Cross Section

84-Po-209  
-99.88 To 9999. %



75

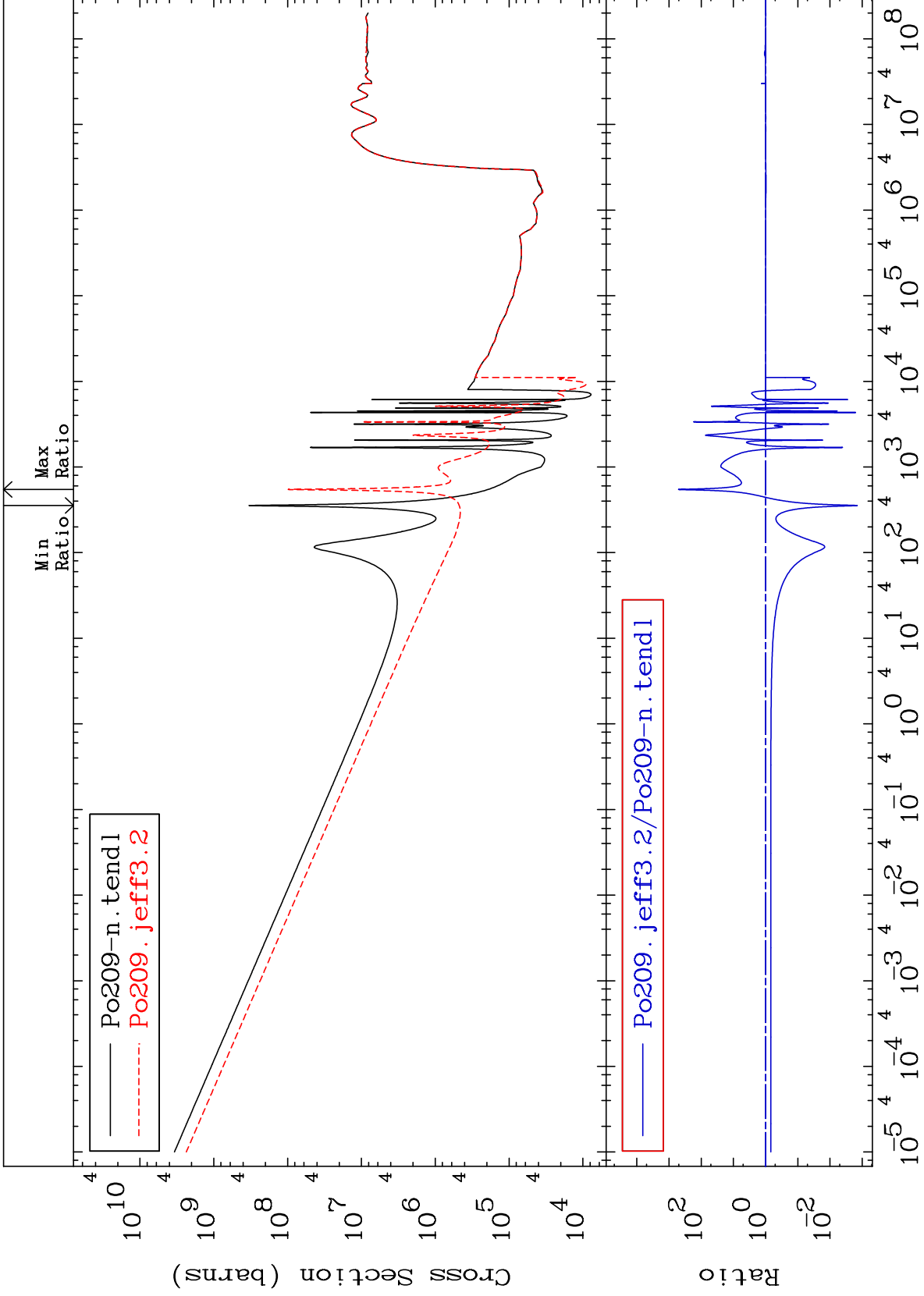
Incident Energy (eV)

84-Po-209

MAT 8434

Total photon (eV-barns)  
Cross Section

84-Po-209  
-99.86 To 9999. %



76

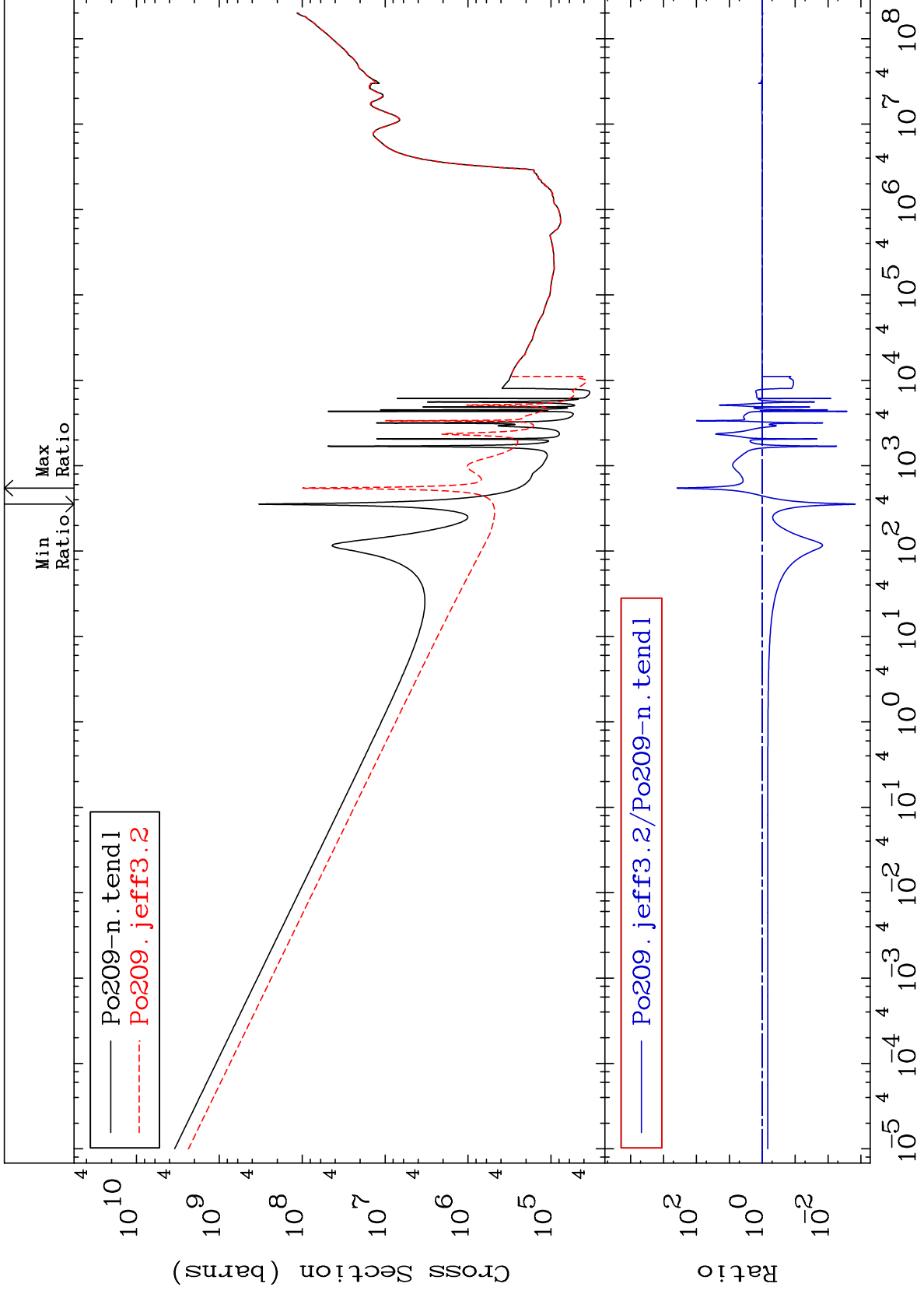
Incident Energy (eV)

84-Po-209

MAT 8434

Total kinematic kerma (high limit)  
Cross Section

84-Po-209  
-99.85 To 9999. %



77

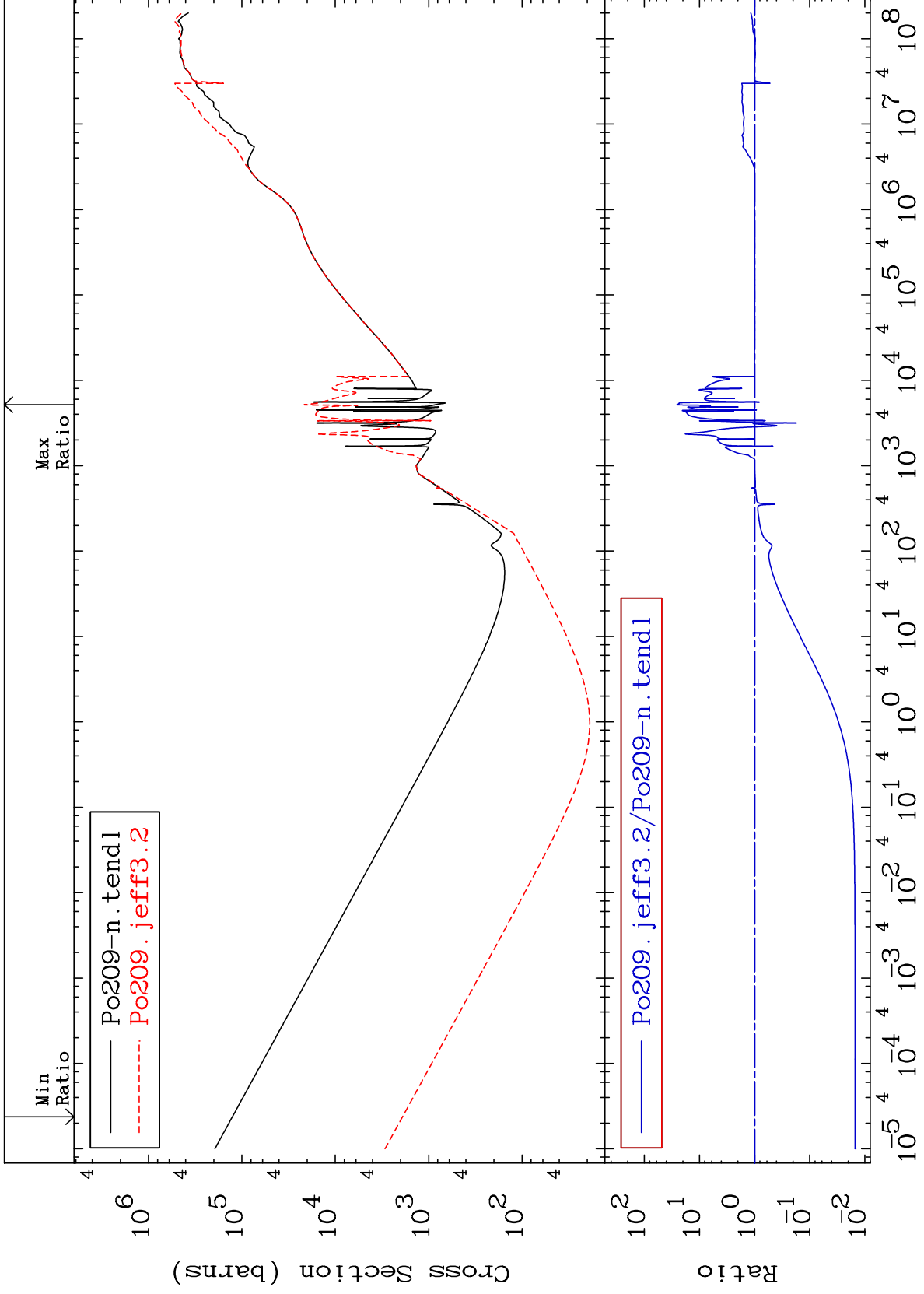
Incident Energy (eV)

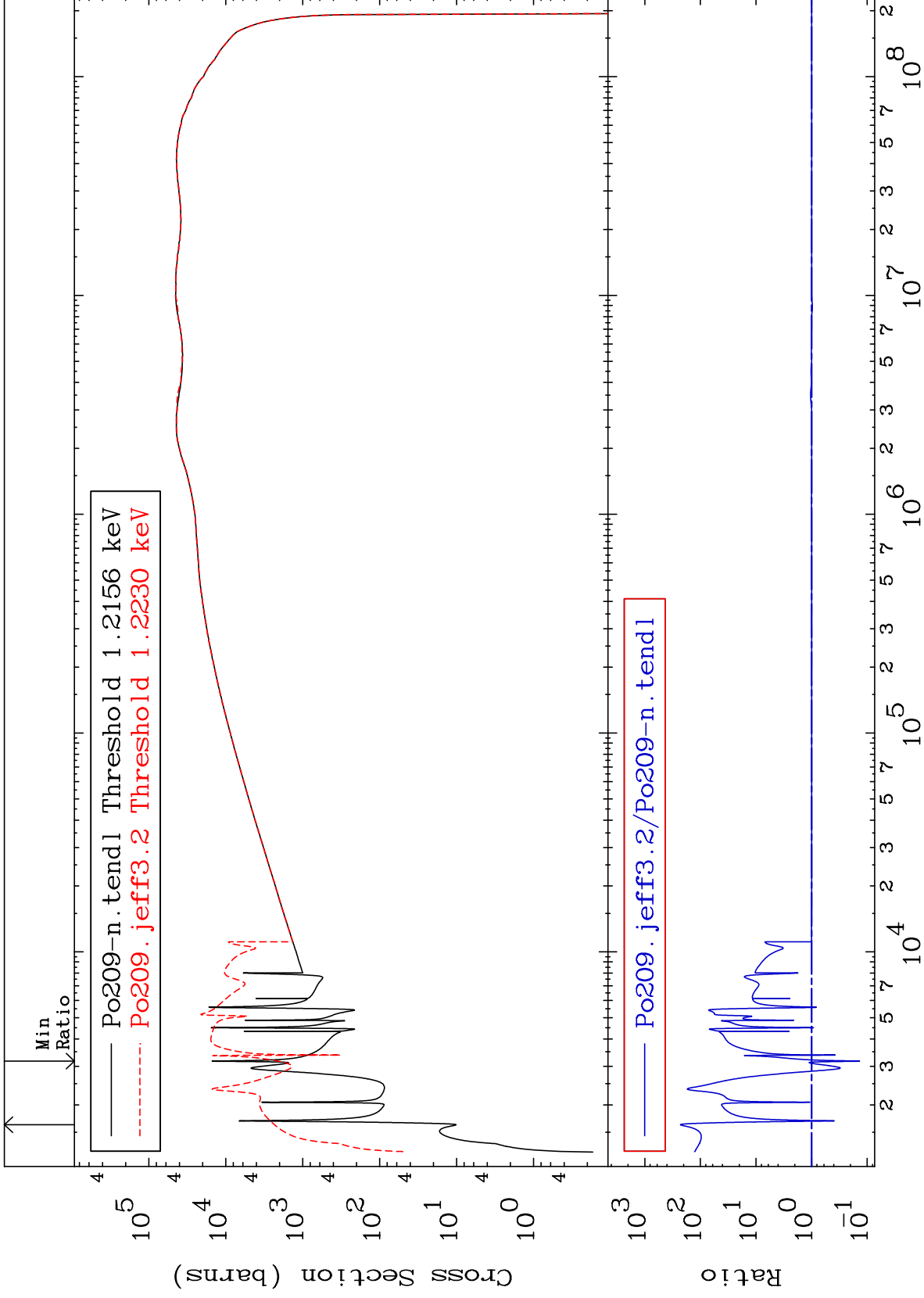
84-Po-209

MAT 8434

Dpa total (eV-barns)  
Cross Section

84-Po-209  
-98.49 To 2457. %

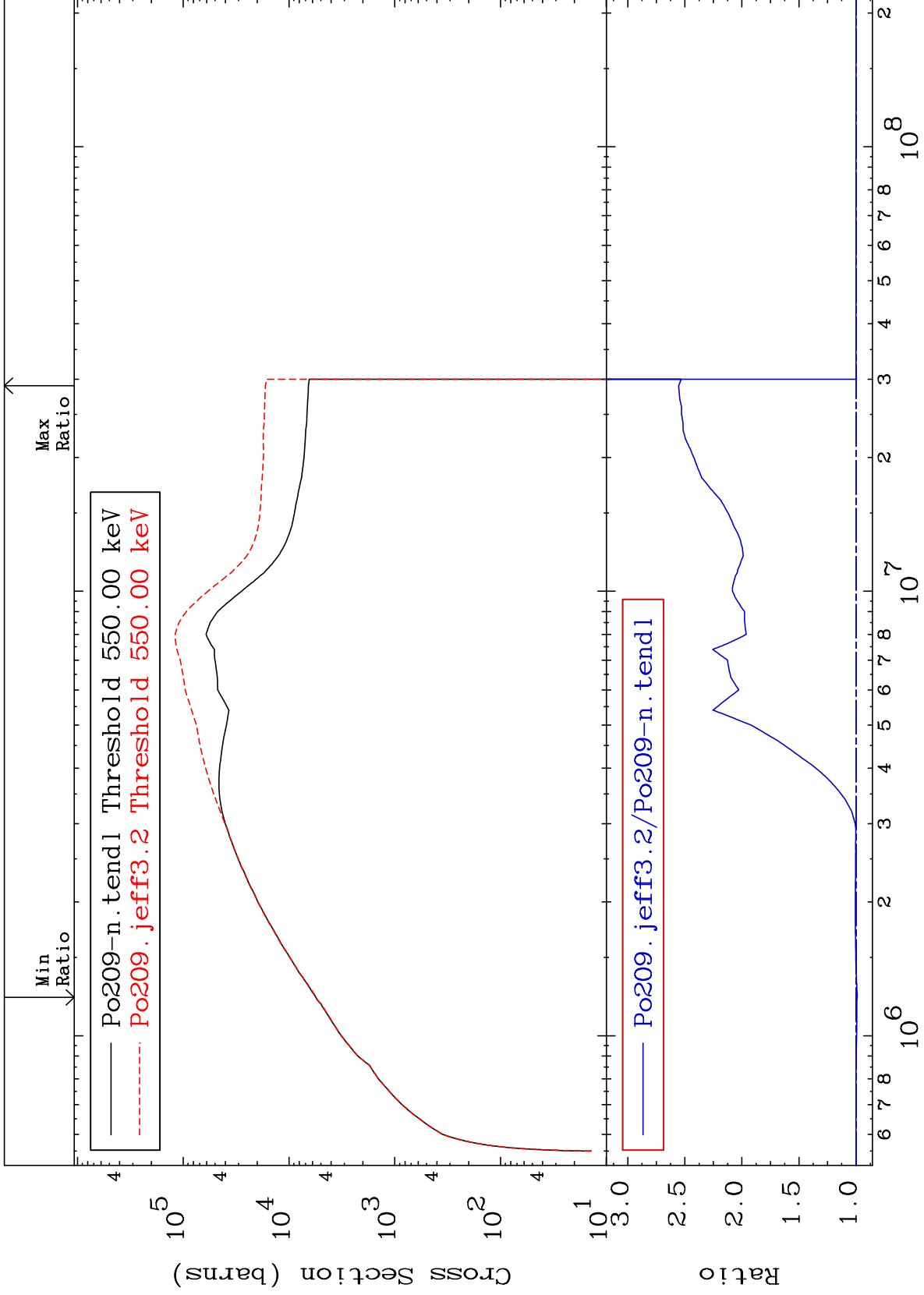




MAT 8434

Dpa inelastic (mt51-91)  
Cross Section

84-Po-209  
-1.088 To 155.4 %

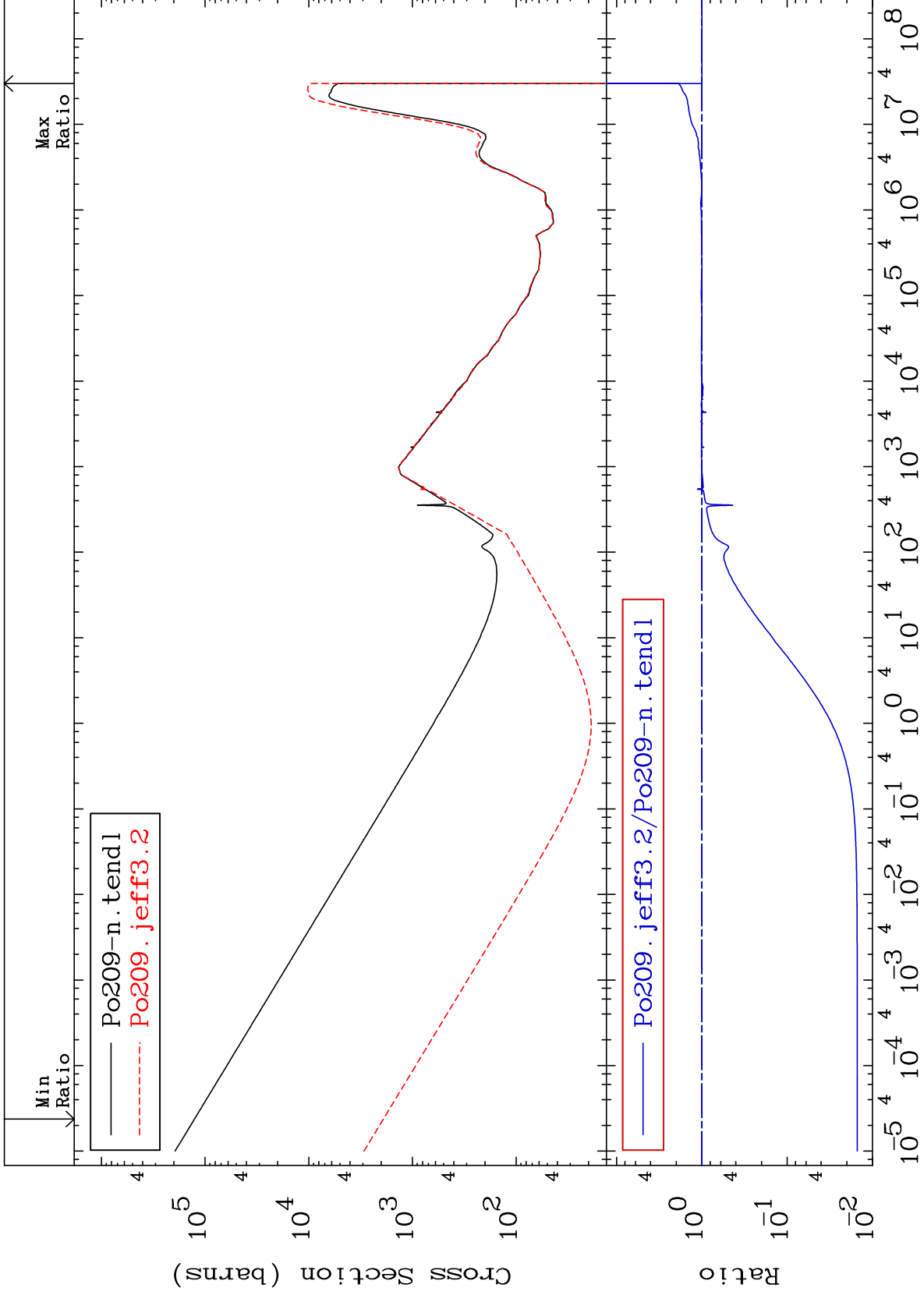


80

Incident Energy (eV)

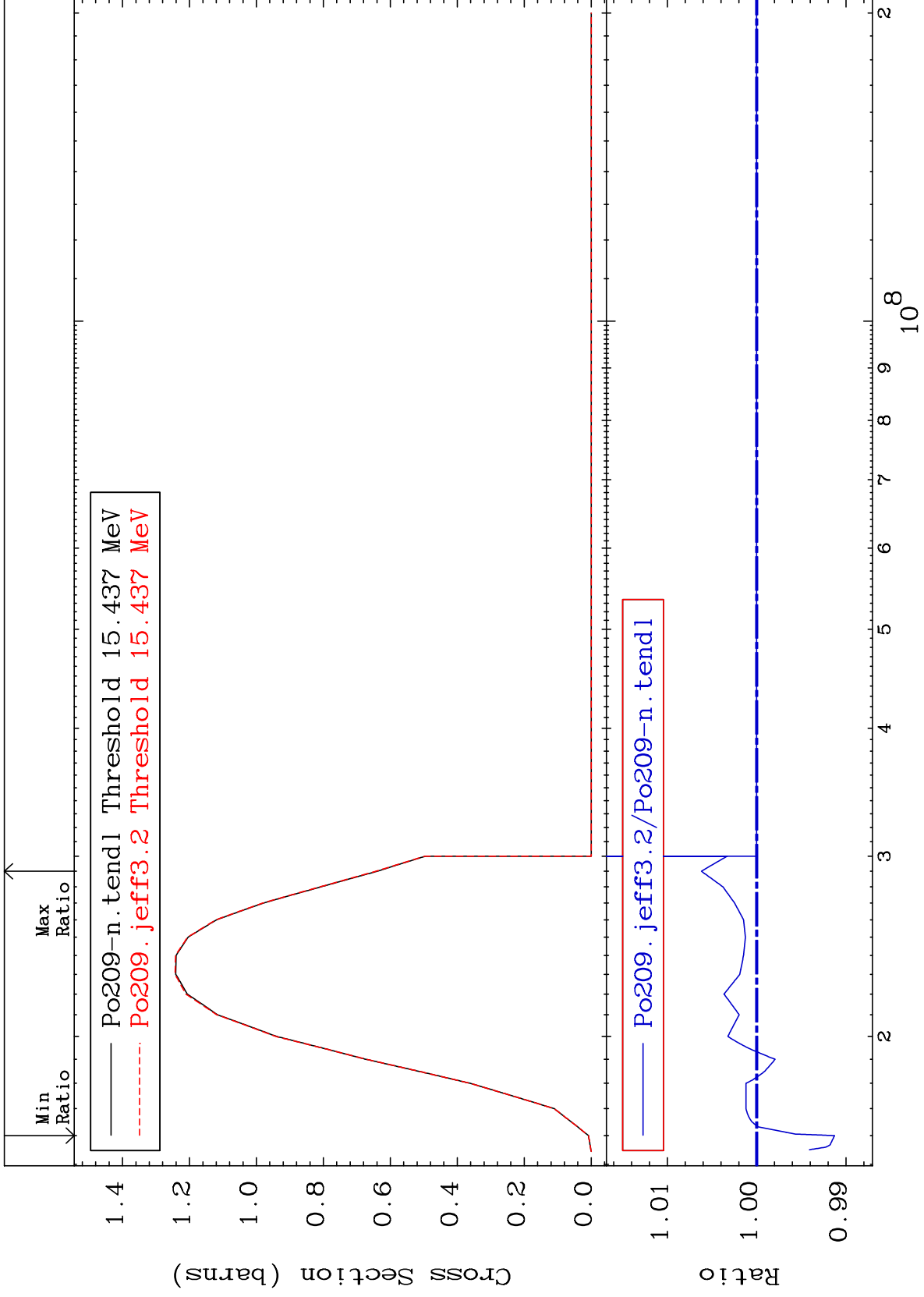
84-Po-209





MAT 8434

(n,3n):84-Po-207g 84-Po-209  
Radionuclide Production Cross Section -0.870 To 0.619 %



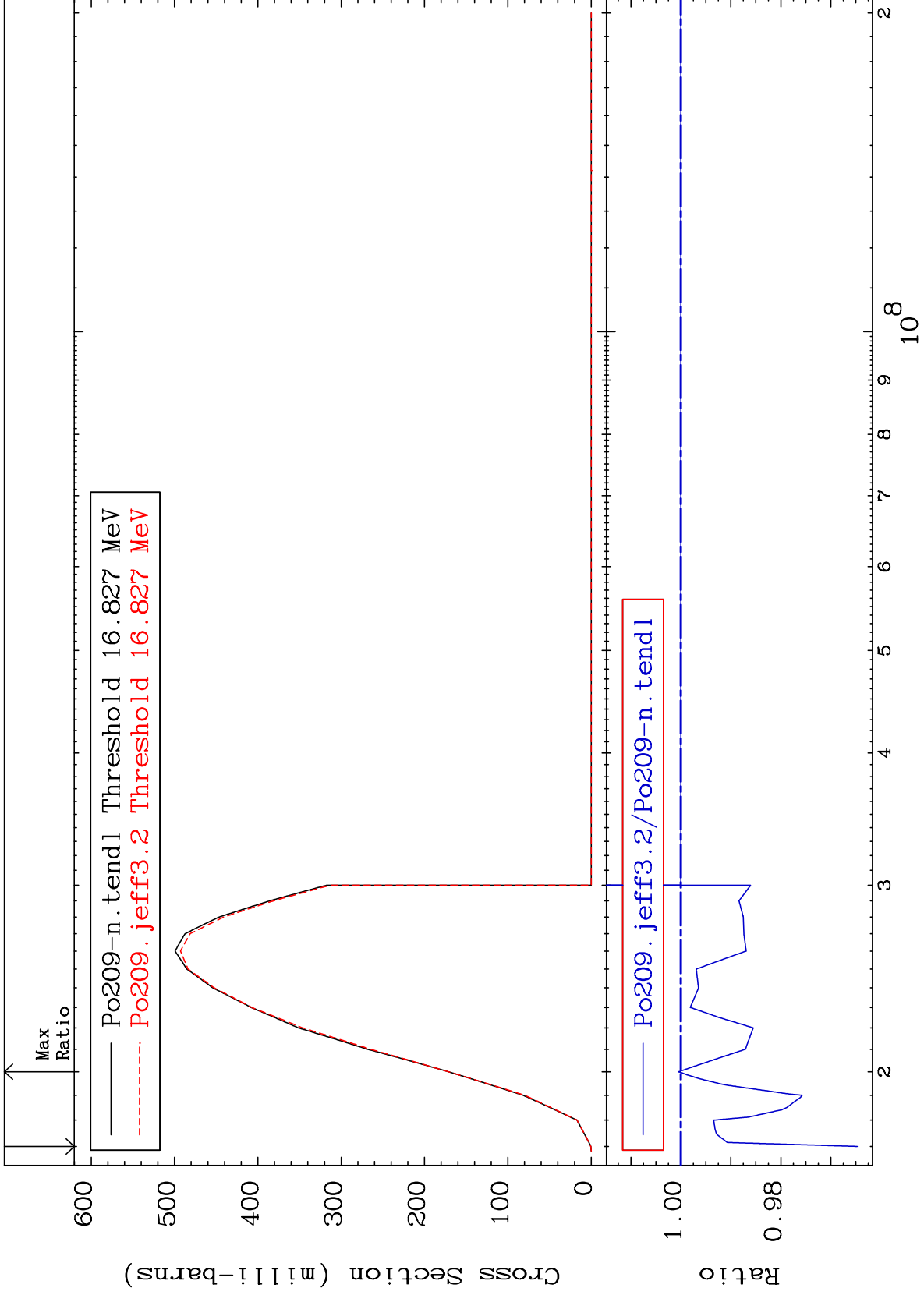
MAT 8434

(n,3n):84-Po-207m14

84-Po-209

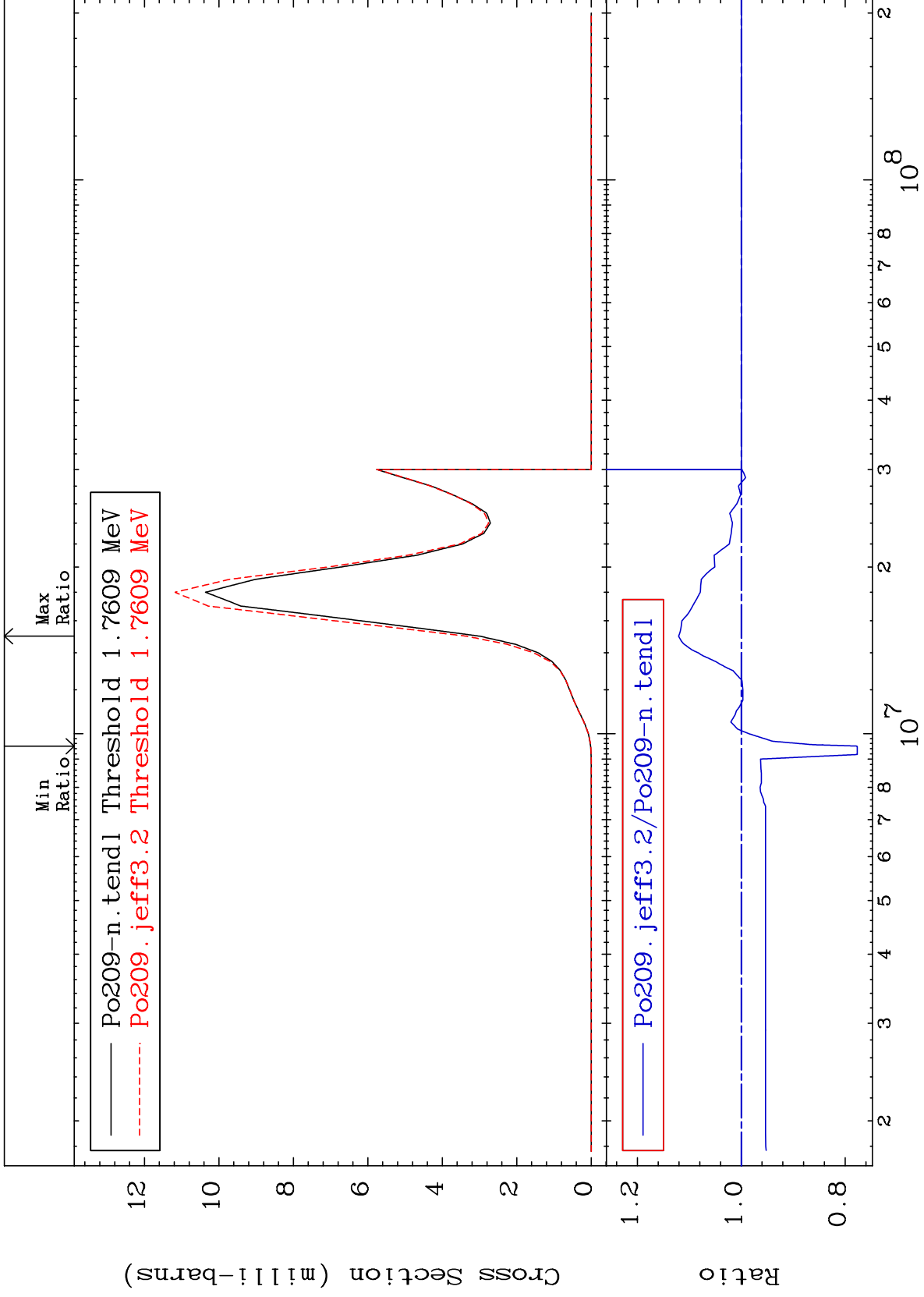
Radionuclide Production Cross Section

-3.529 To 0.044 %



MAT 8434

(n,2n)  $\alpha$ : 82-Pb-204g 84-Po-209  
Radionuclide Production Cross Section -22.33 To 12.07 %



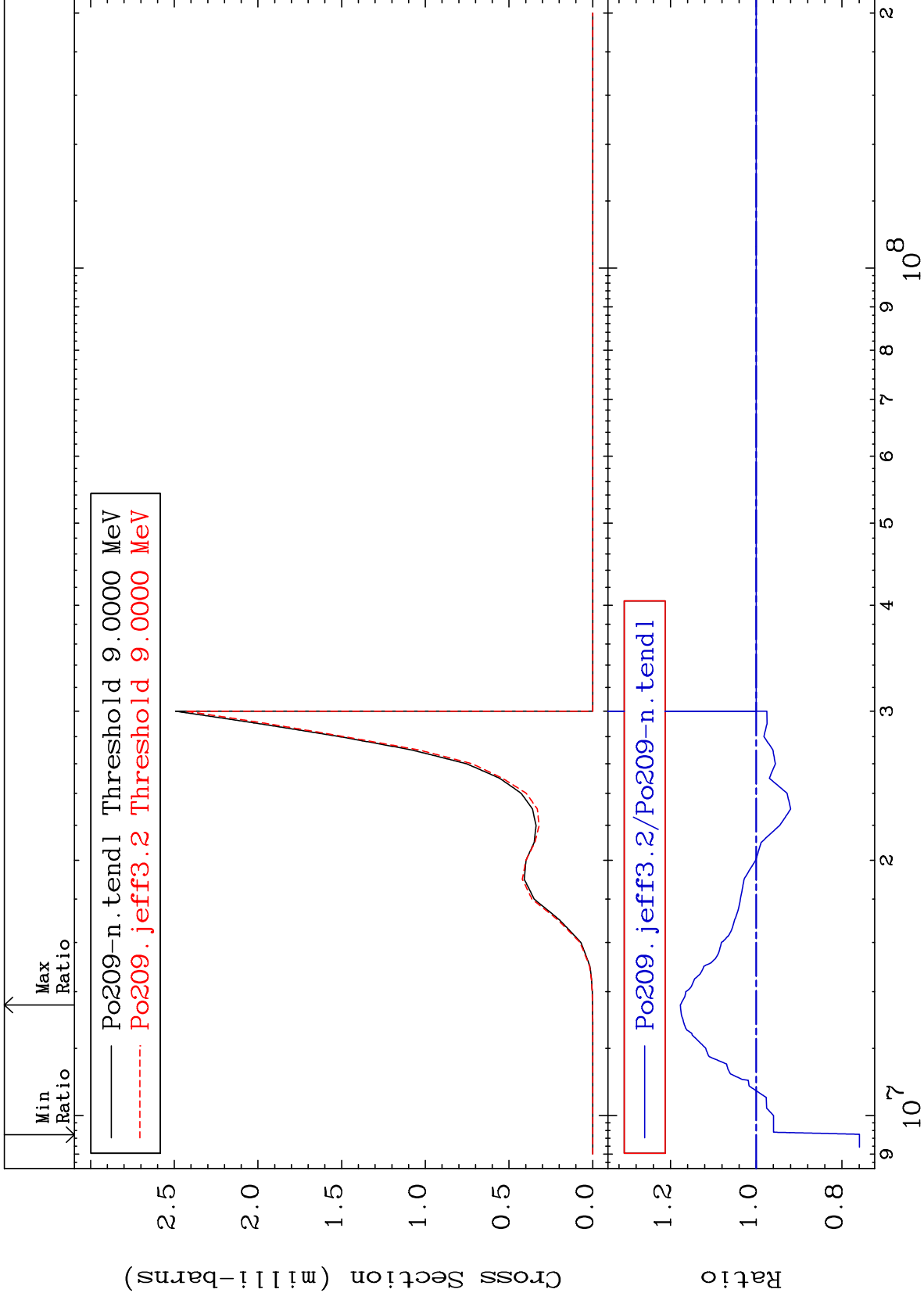
84

Incident Energy (eV)

84-Po-209

Radionuclide Production Cross Section

-24.06 To 17.69 %

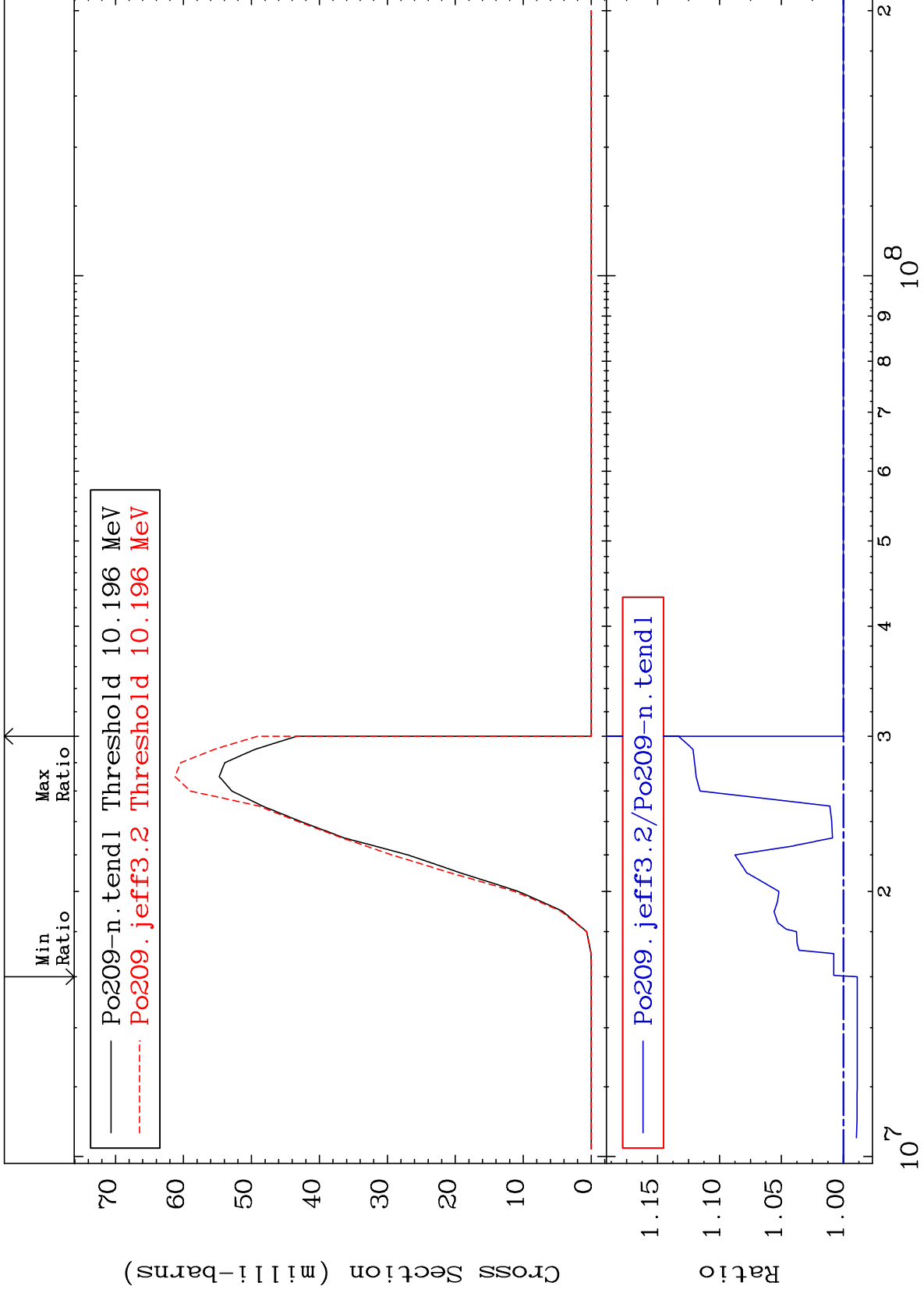


MAT 8434

(n,3n)  $\alpha$ : 82-Pb-203g

84-Po-209

Radionuclide Production Cross Section -1.123 To 13.30 %



86

Incident Energy (eV)

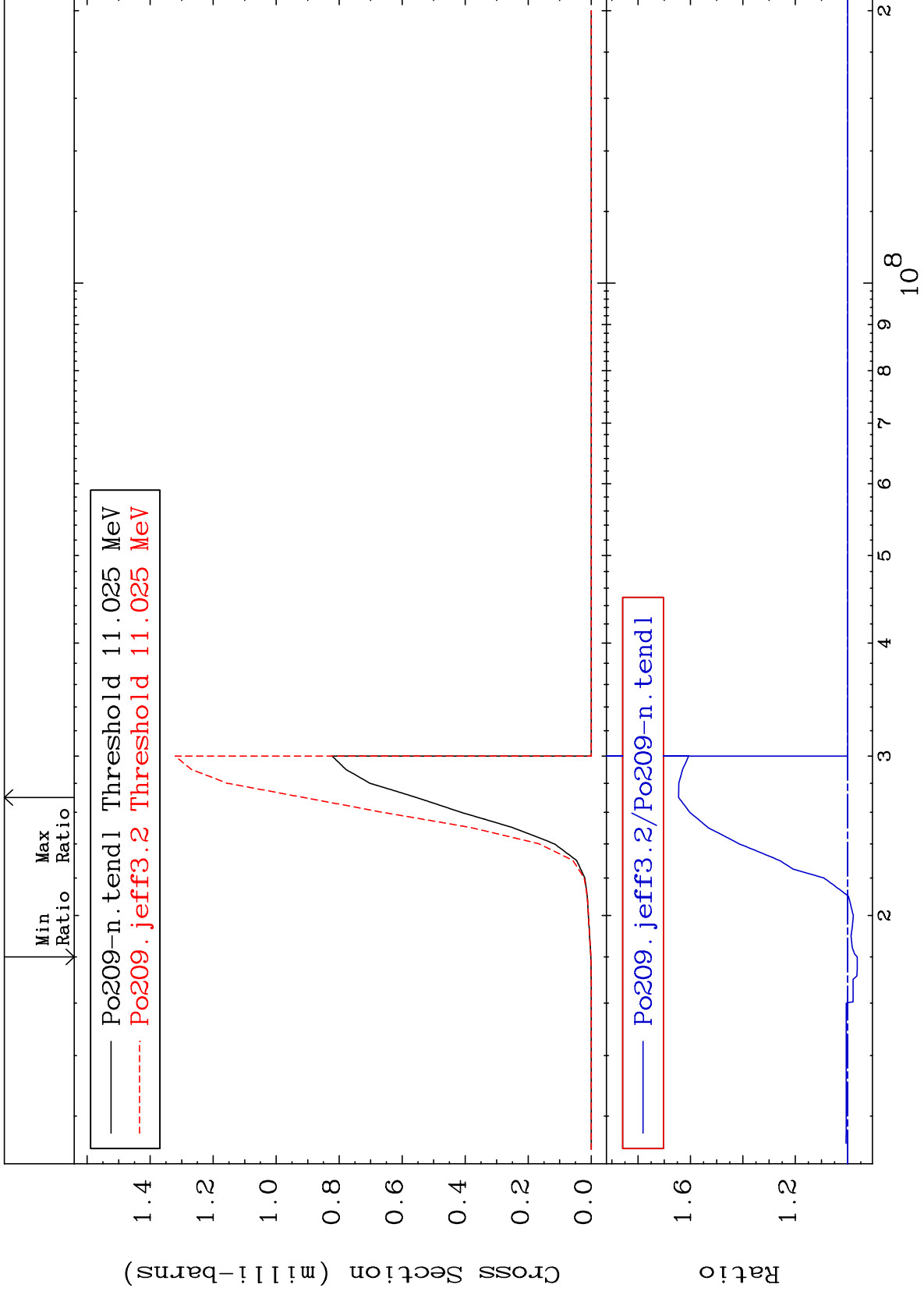
84-Po-209

MAT 8434

(n,3n)  $\alpha$ : 82-Pb-203m6

84-Po-209

Radionuclide Production Cross Section -3.661 To 64.50 %



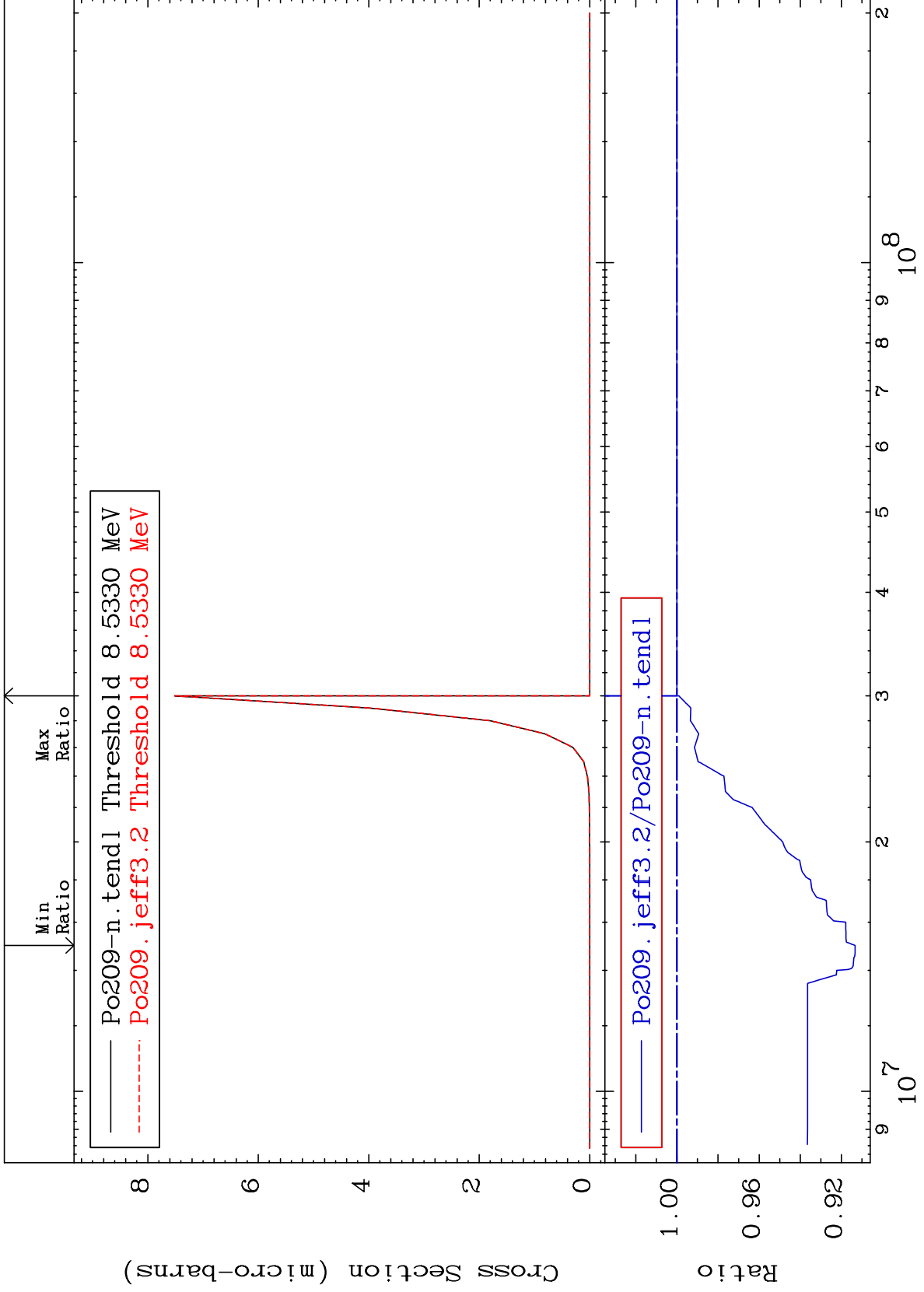
MAT 8434

(n,2n) p:82-Pb-207g

84-Po-209

Radionuclide Production Cross Section

-8.663 To 0.000 %



88

Incident Energy (eV)

84-Po-209

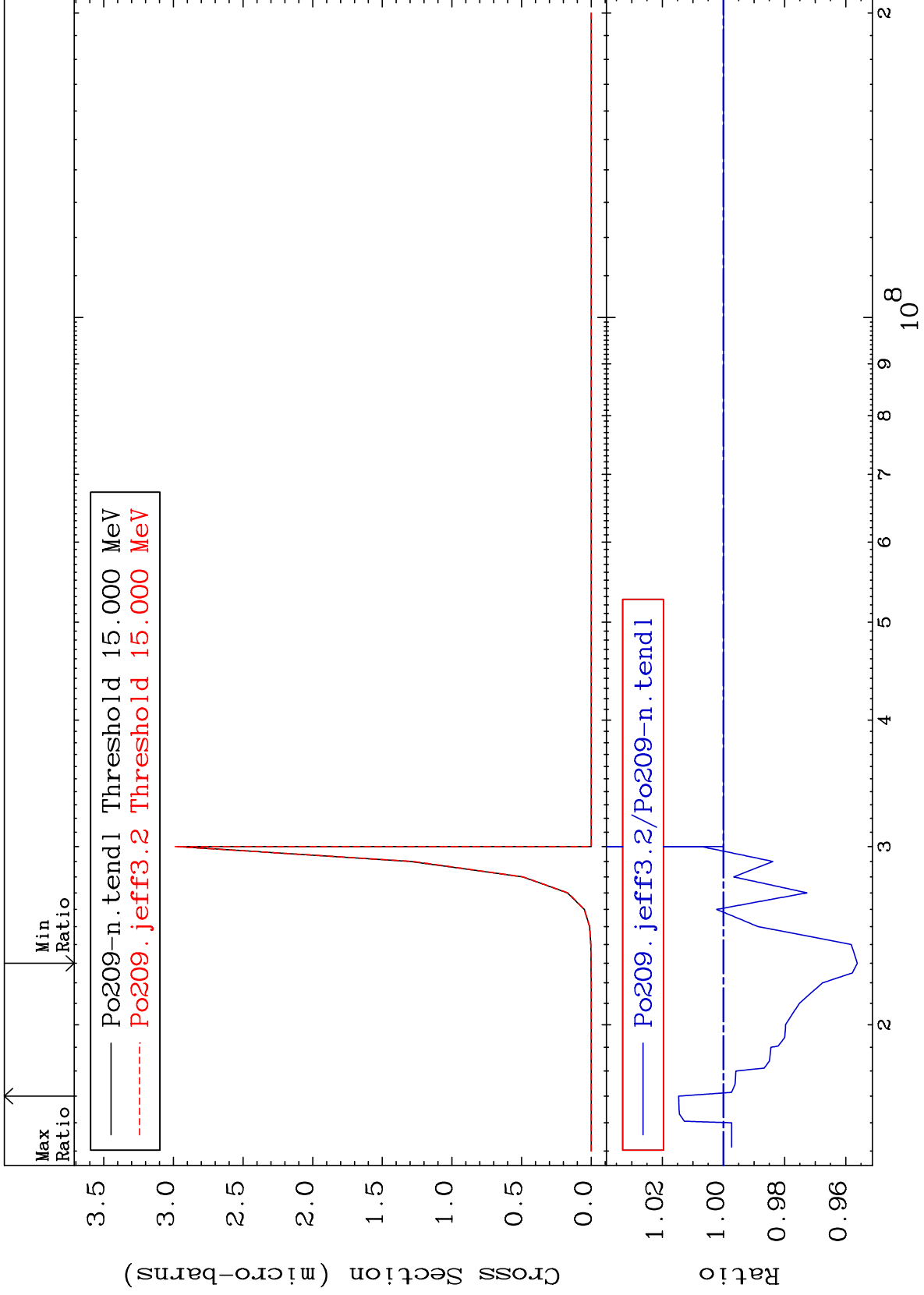


MAT 8434

(n,2n) p:82-Pb-207m3

84-Po-209

Radionuclide Production Cross Section -4.376 To 1.465 %

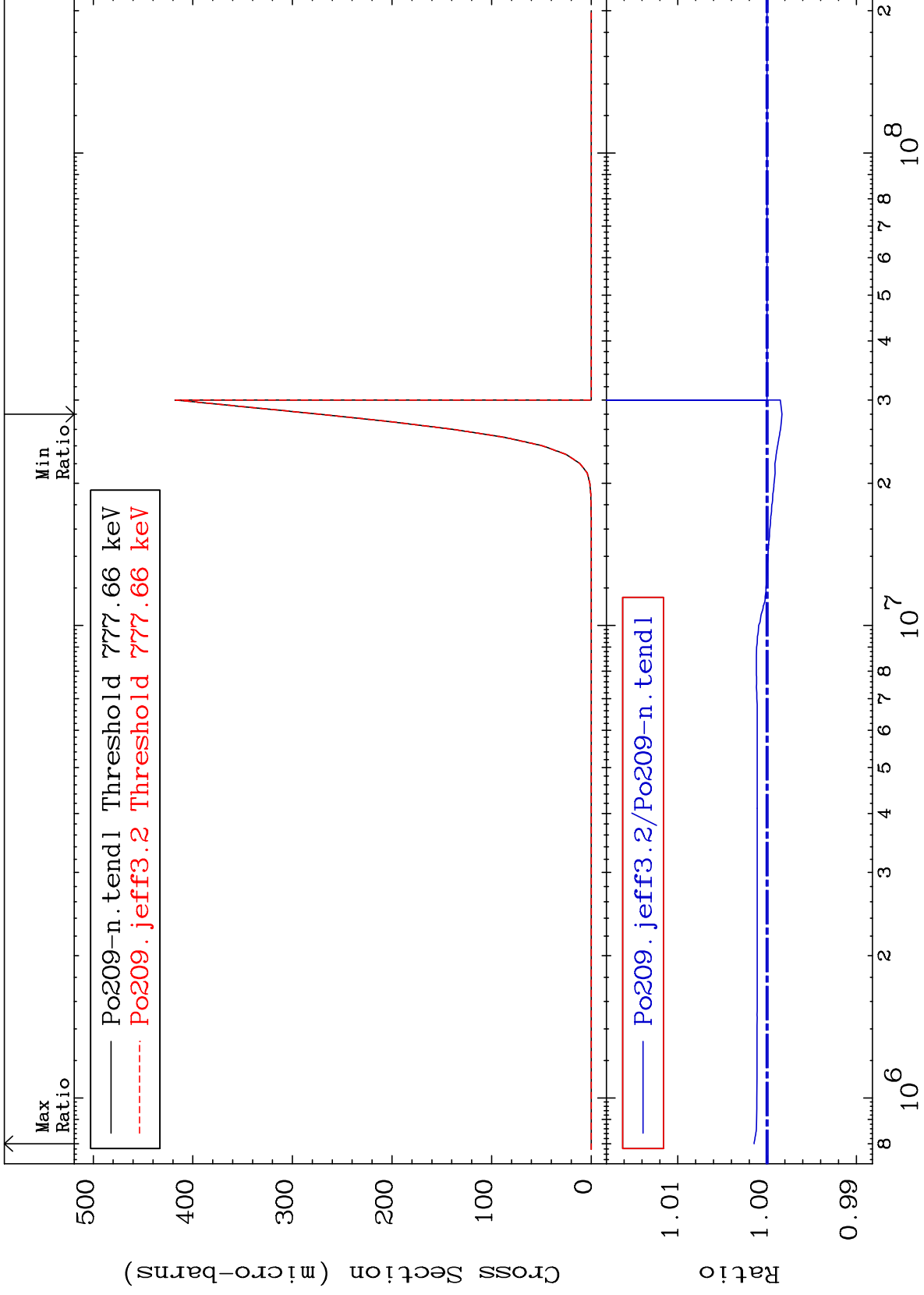


MAT 8434

(n,He-3):82-Pb-207g

84-Po-209

Radionuclide Production Cross Section -0.166 To 0.146 %



90

Incident Energy (eV)

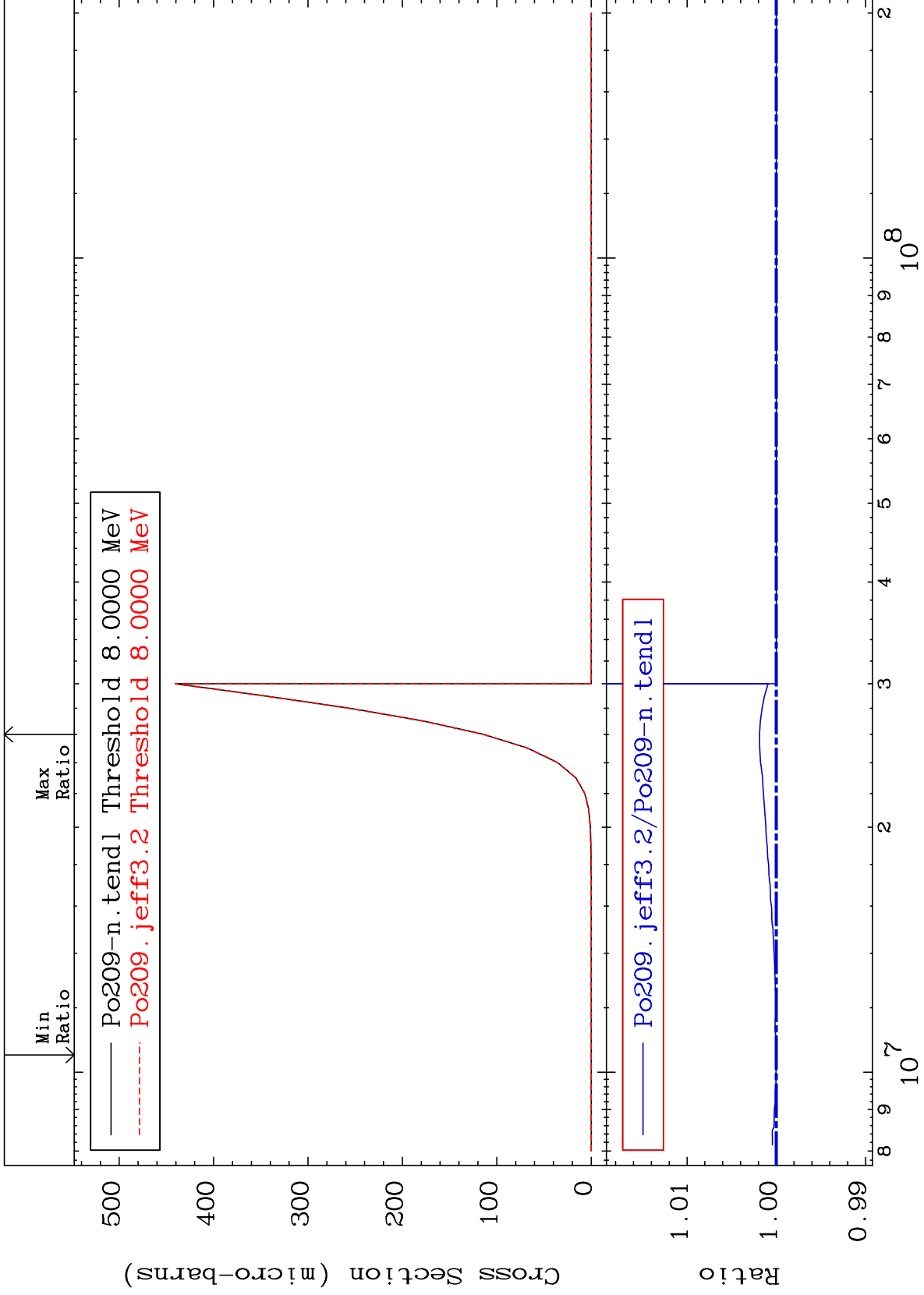
84-Po-209

MAT 8434

(n,He-3) : 82-Pb-207m3

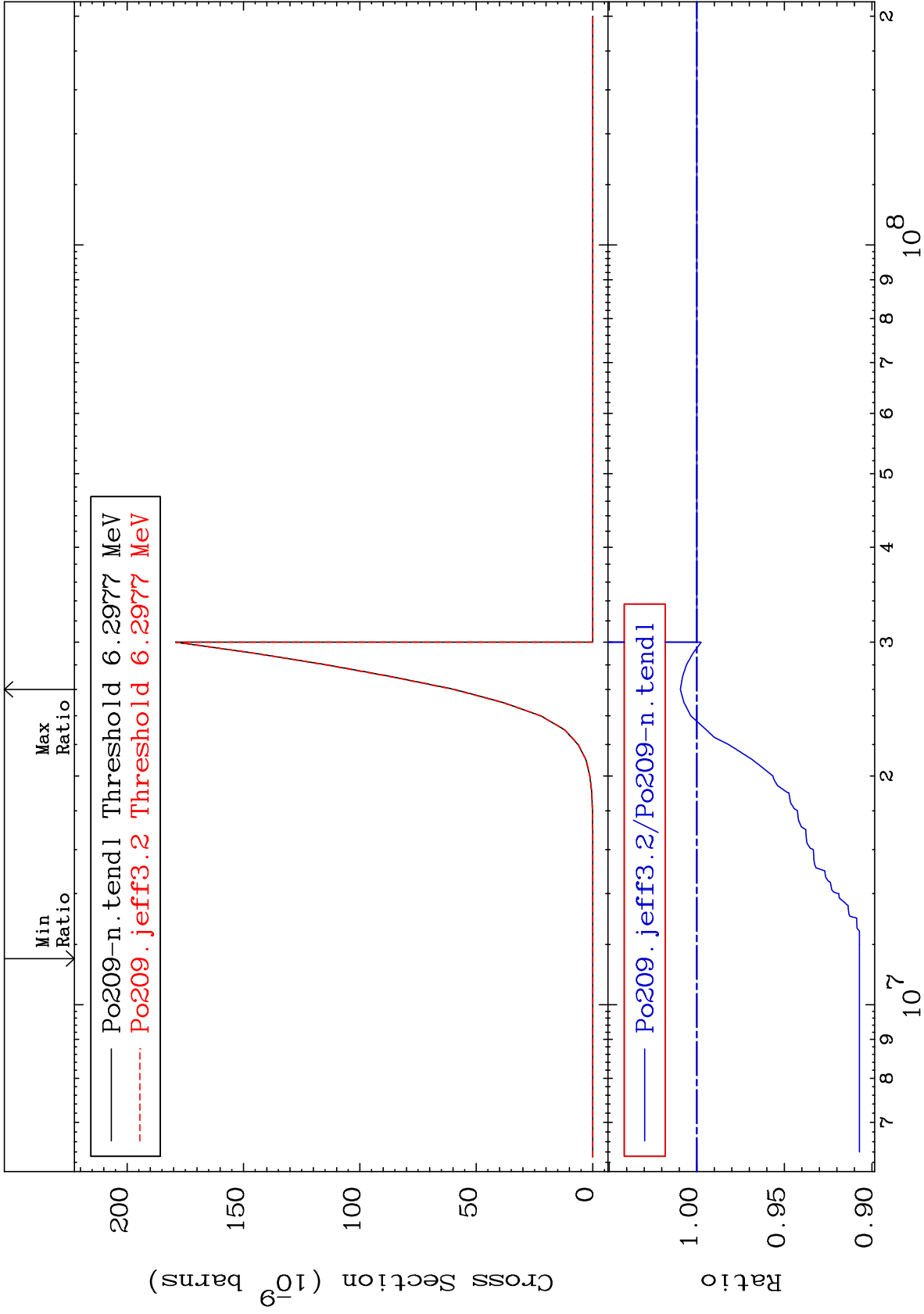
84-Po-209

Radionuclide Production Cross Section 0.000 To 0.187 %



MAT 8434

(n, p) d: 82-Pb-207g 84-Po-209  
Radionuclide Production Cross Section -9.289 To 0.935 %



MAT 8434

(n, p) d:82-Pb-207m3

84-Po-209

Radionuclide Production Cross Section -3.908 To 2.696 %

