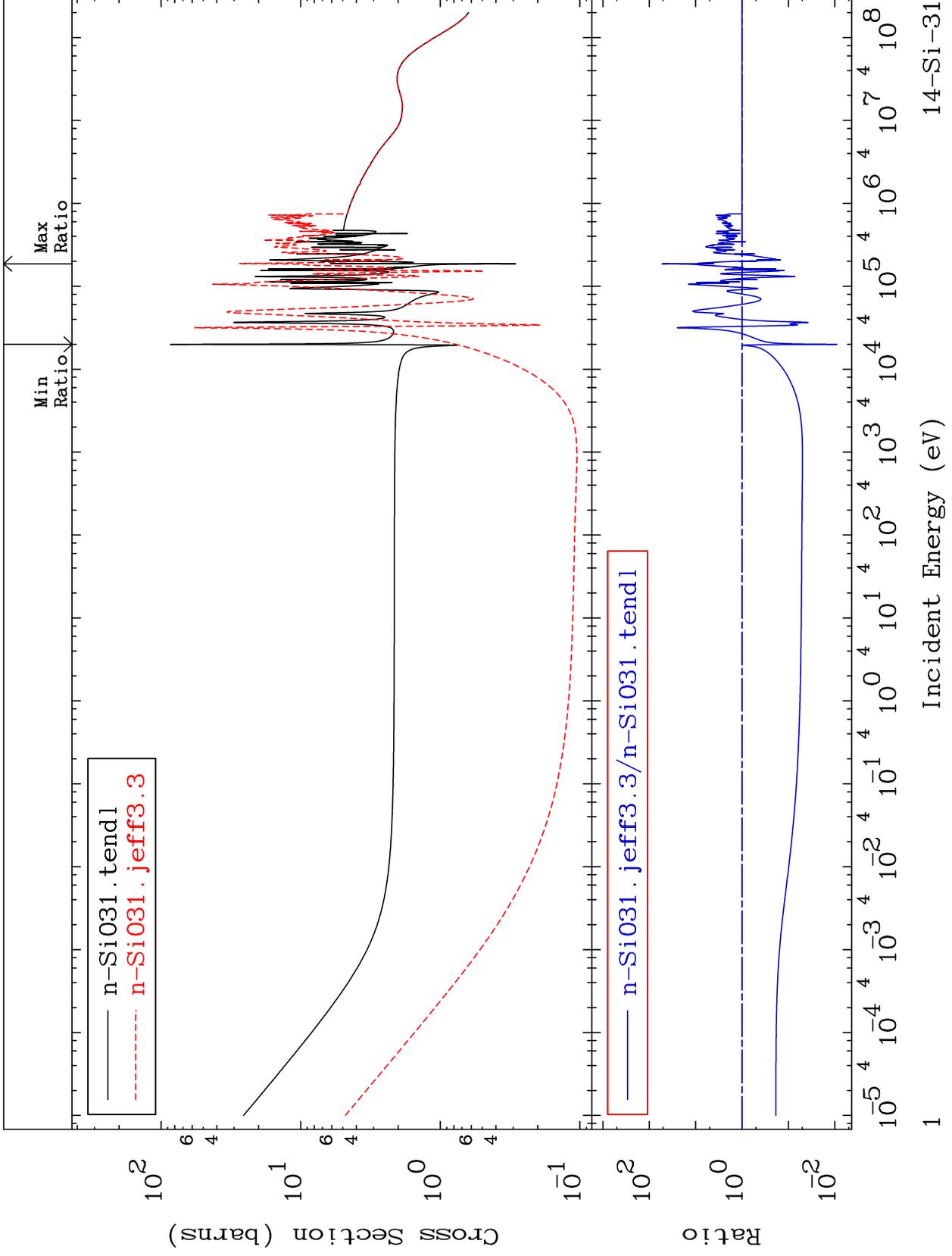


MAT 1434

Total  
Cross Section

14-Si-31  
-99.10 To 5120. %



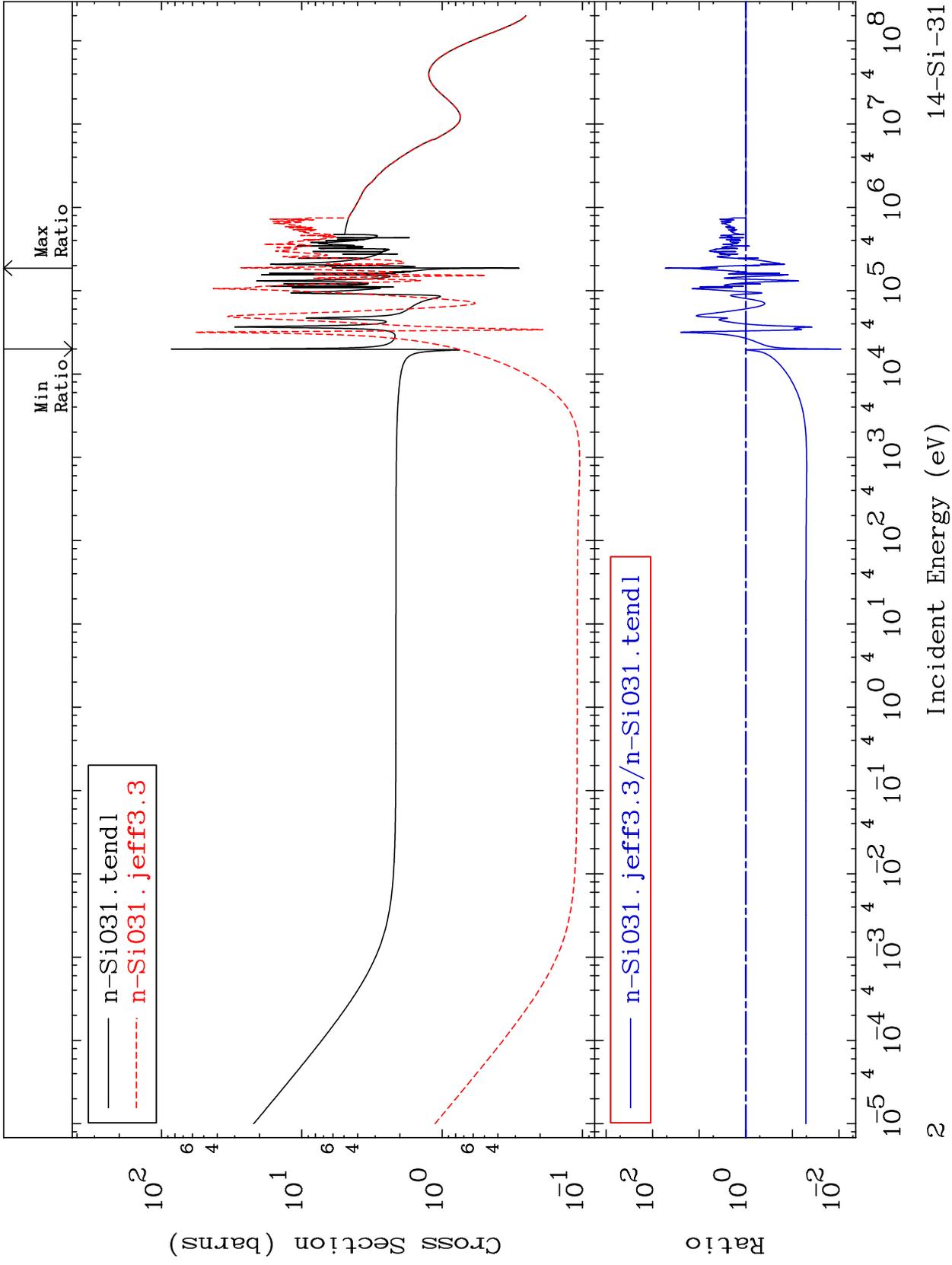
Incident Energy (eV)

14-Si-31

MAT 1434

Elastic  
Cross Section

14-Si-31  
-99.09 To 5206. %



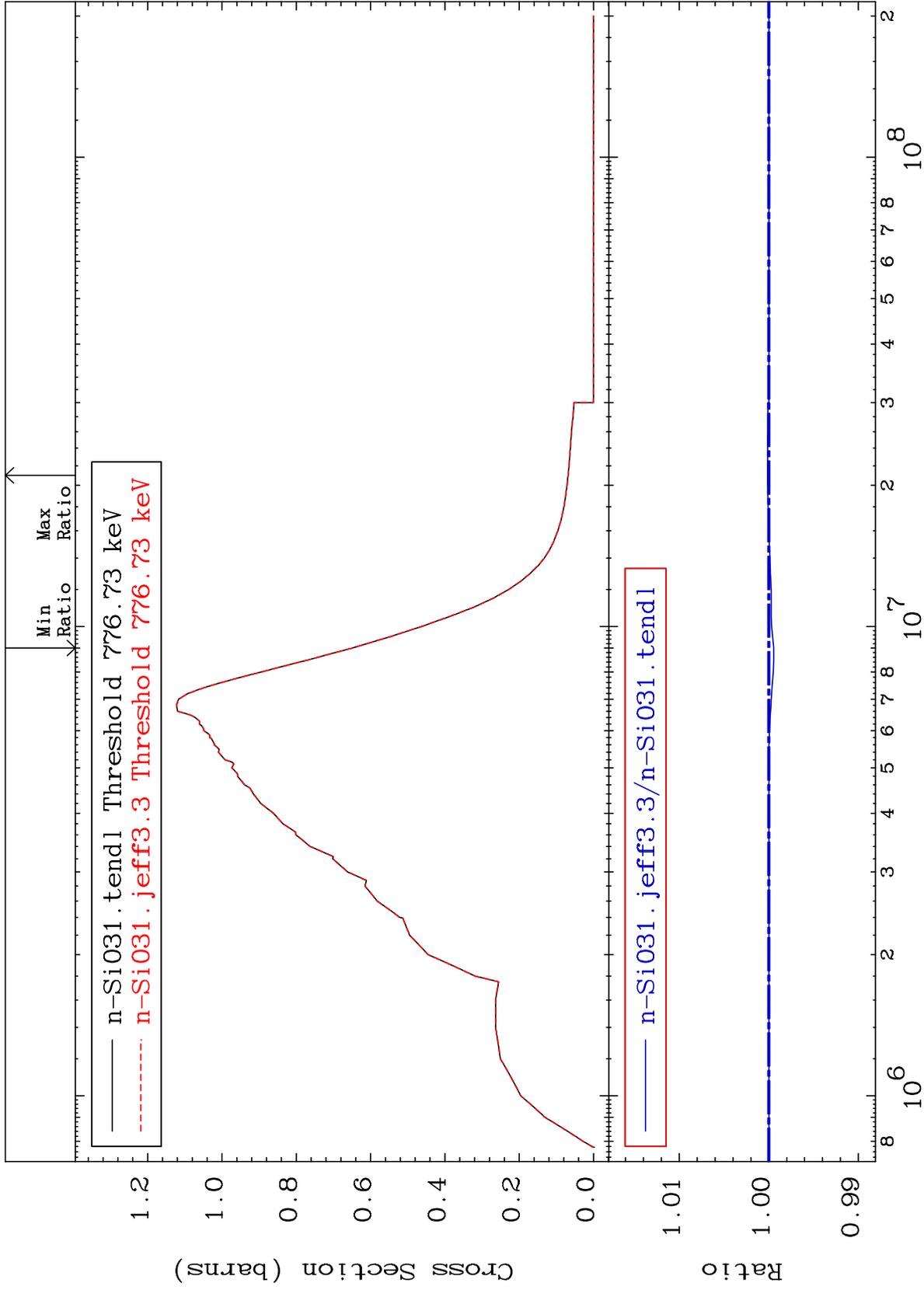
14-Si-31

MAT 1434

14-Si-31

-0.055 To 0.013 %

Inelastic  
Cross Section



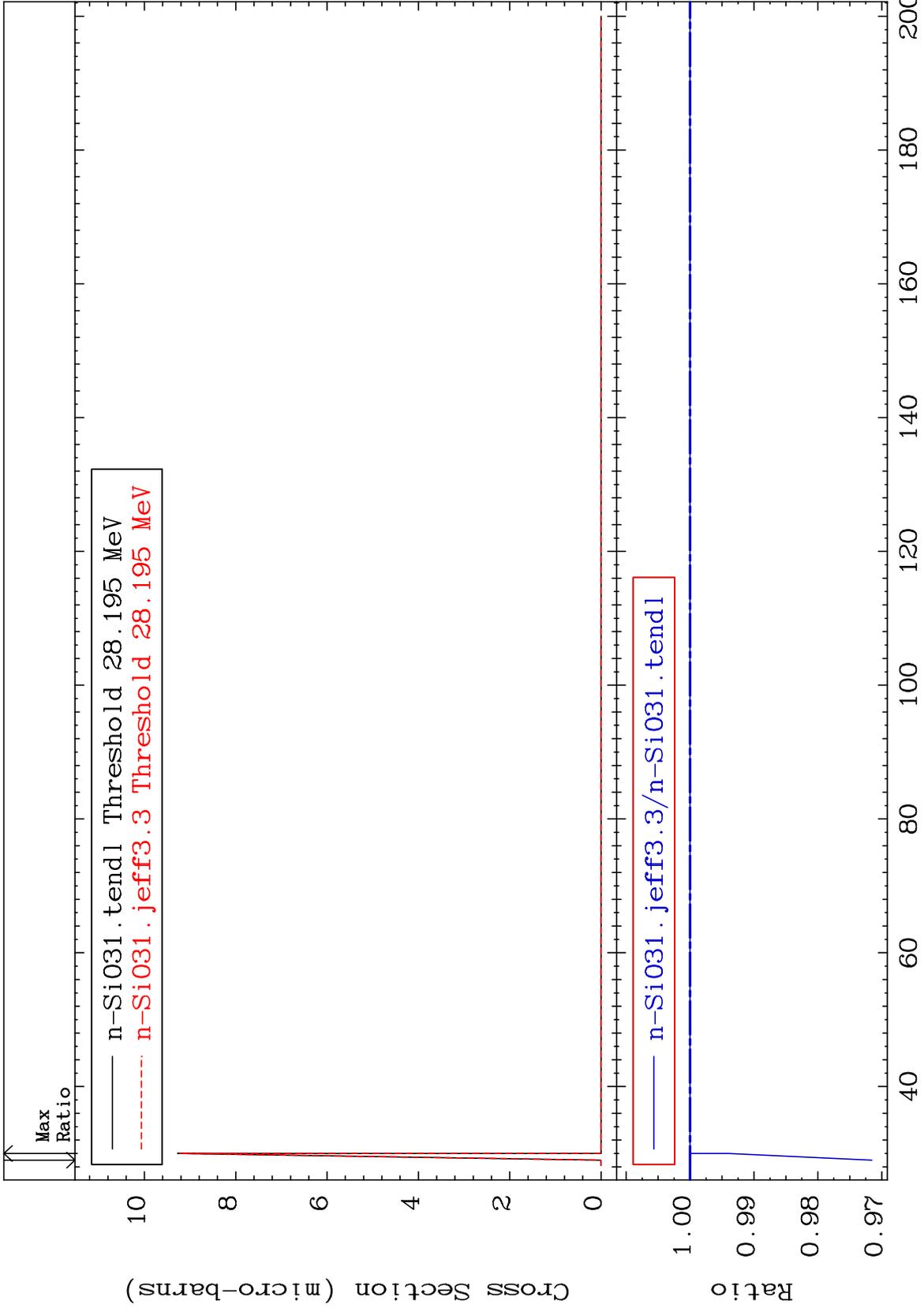
Incident Energy (eV)

14-Si-31

MAT 1434

(n,2n) d  
Cross Section

14-Si-31  
-2.845 To 0.000 %



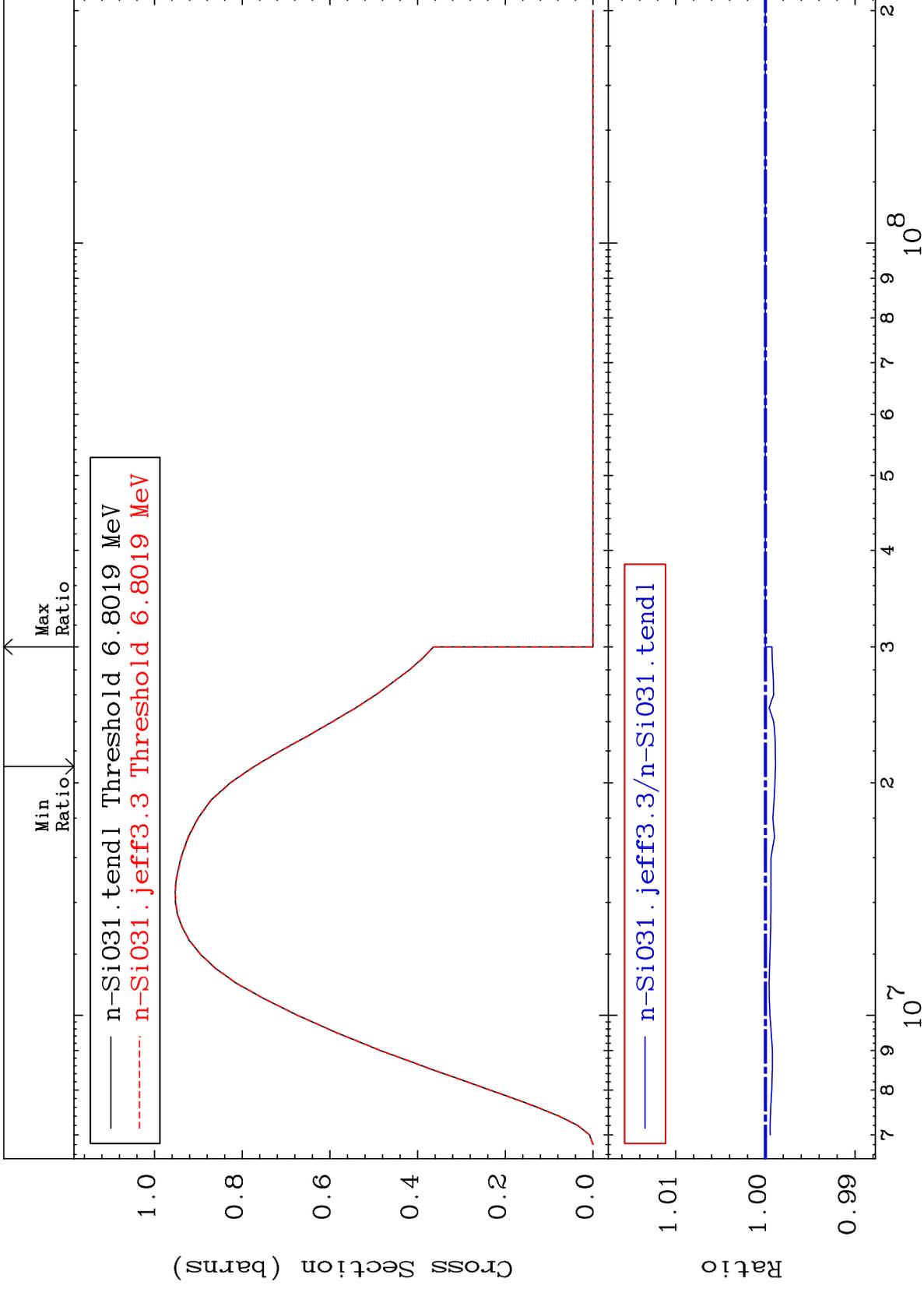
MAT 1434

(n,2n)

14-Si-31

Cross Section

-0.112 To 0.000 %



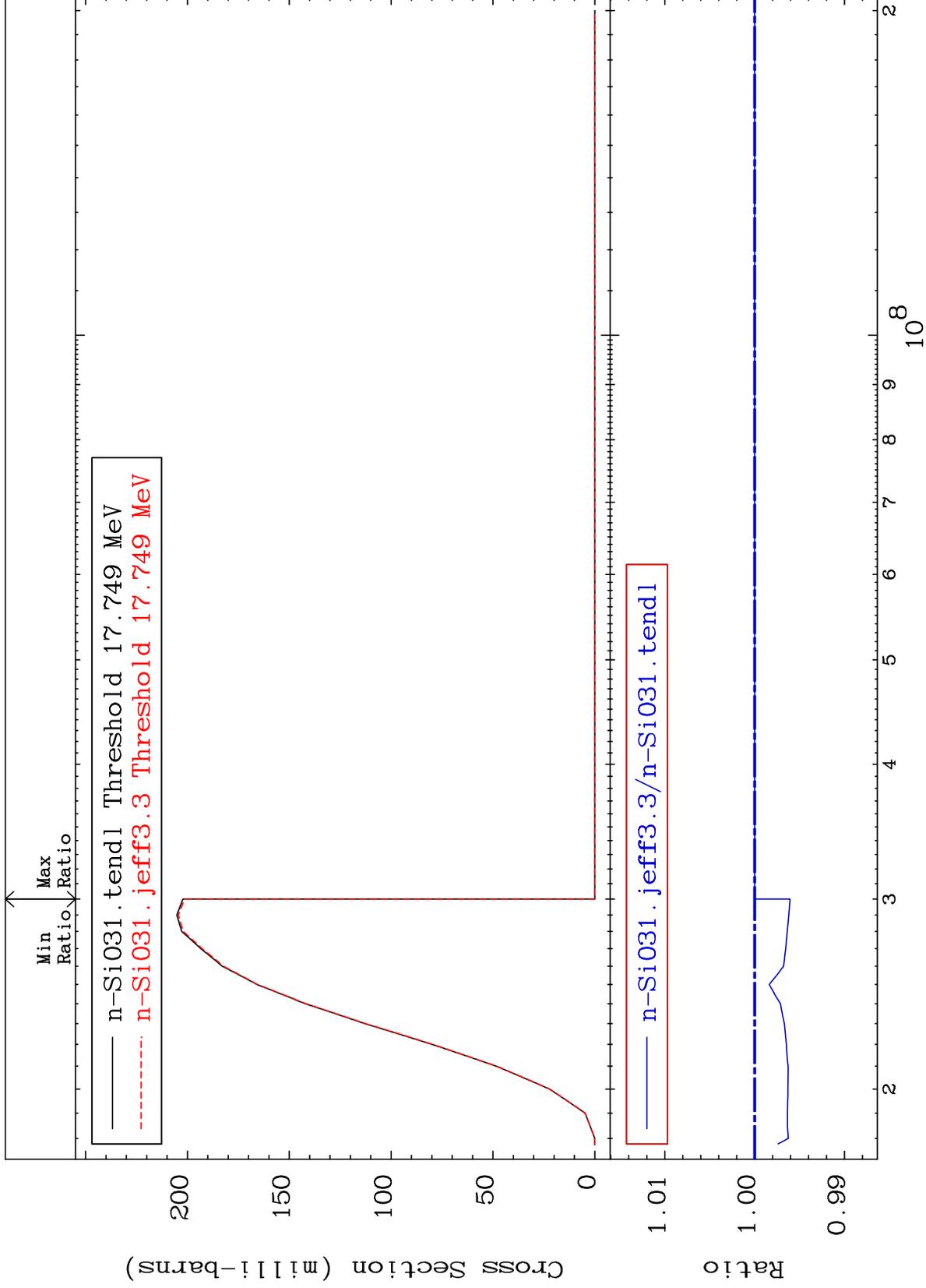
MAT 1434

(n,3n)

14-Si-31

Cross Section

-0.394 To 0.000 %



6

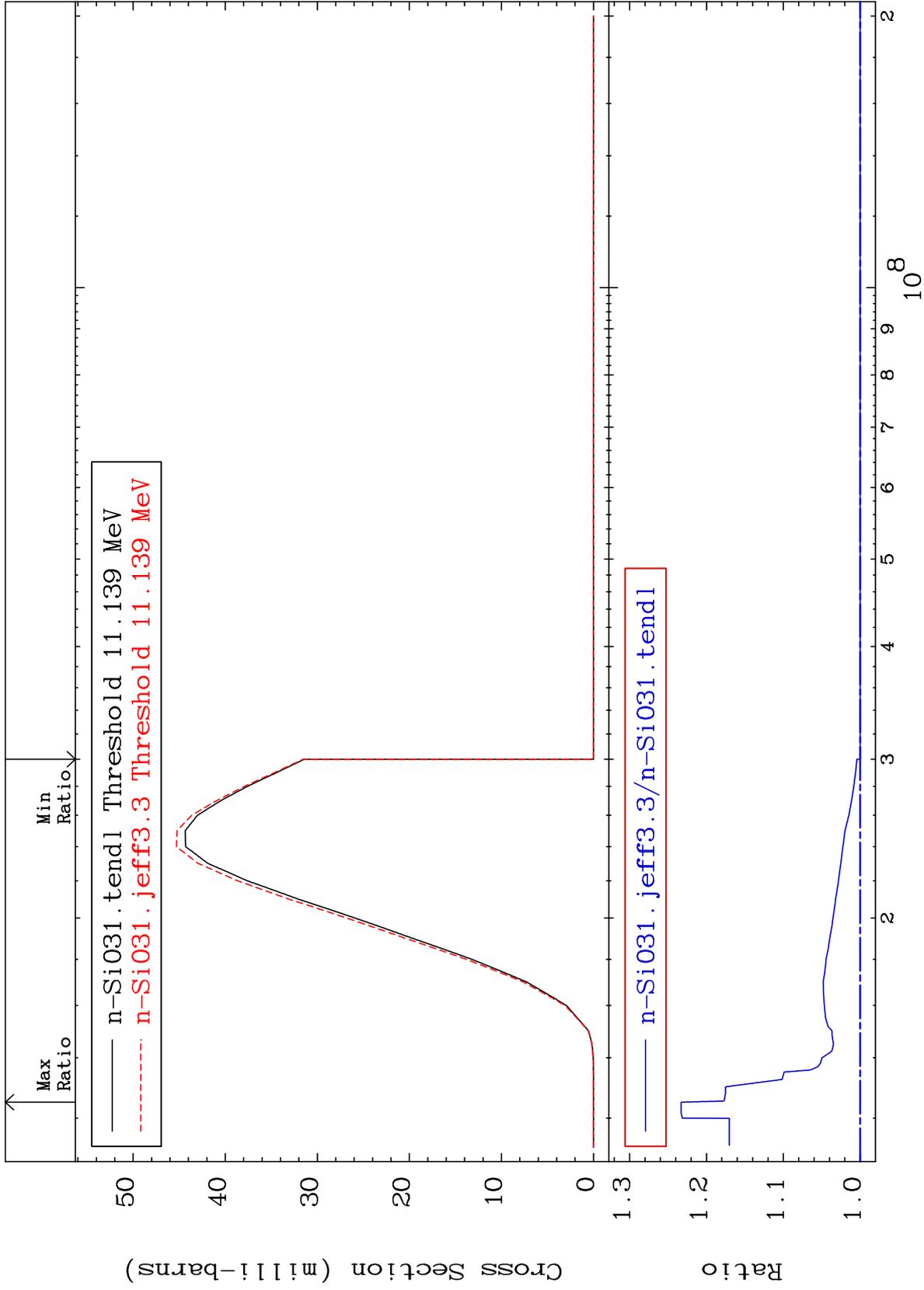
Incident Energy (eV)

14-Si-31

MAT 1434

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

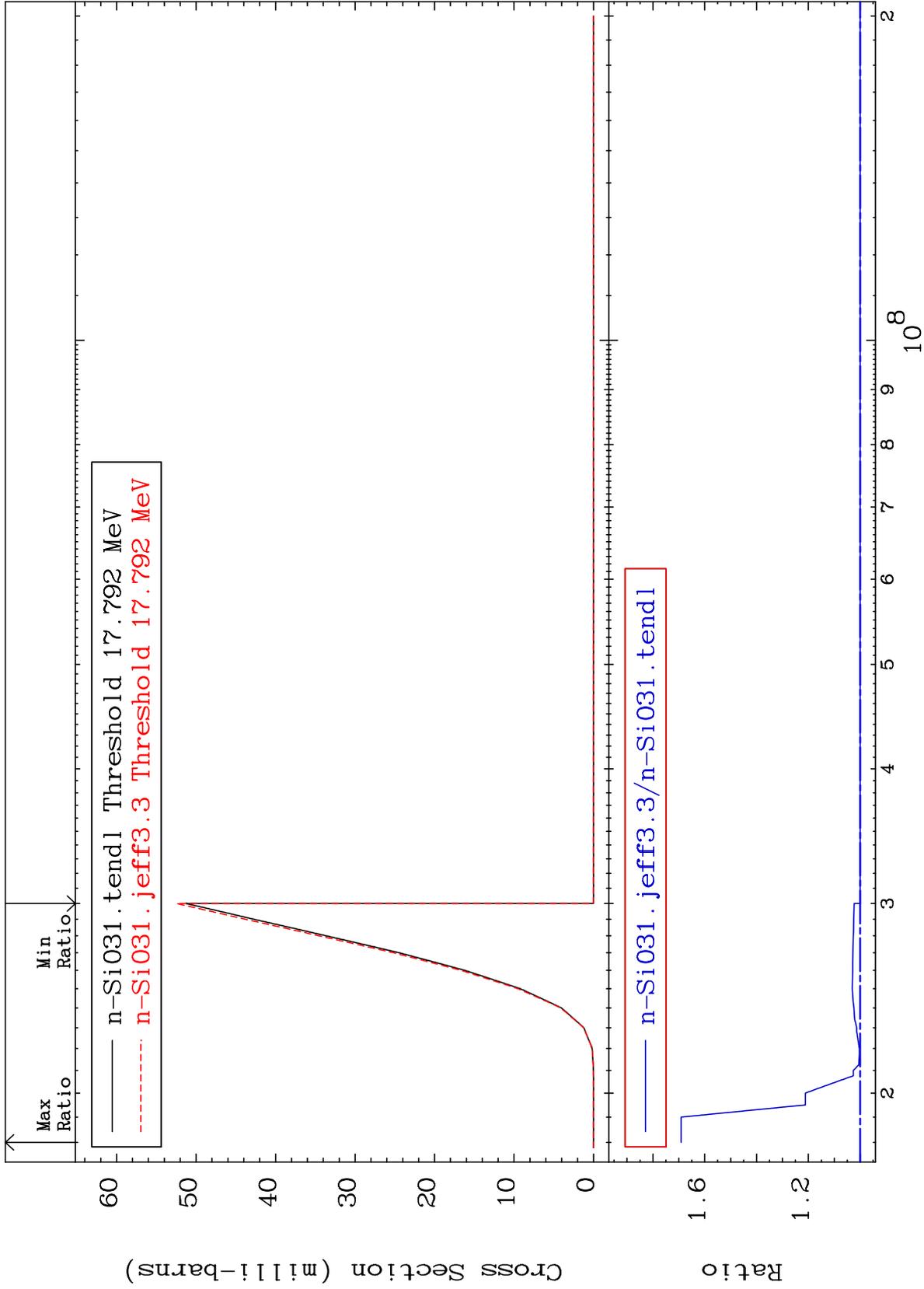
14-Si-31  
0.000 To 23.29 %



MAT 1434

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

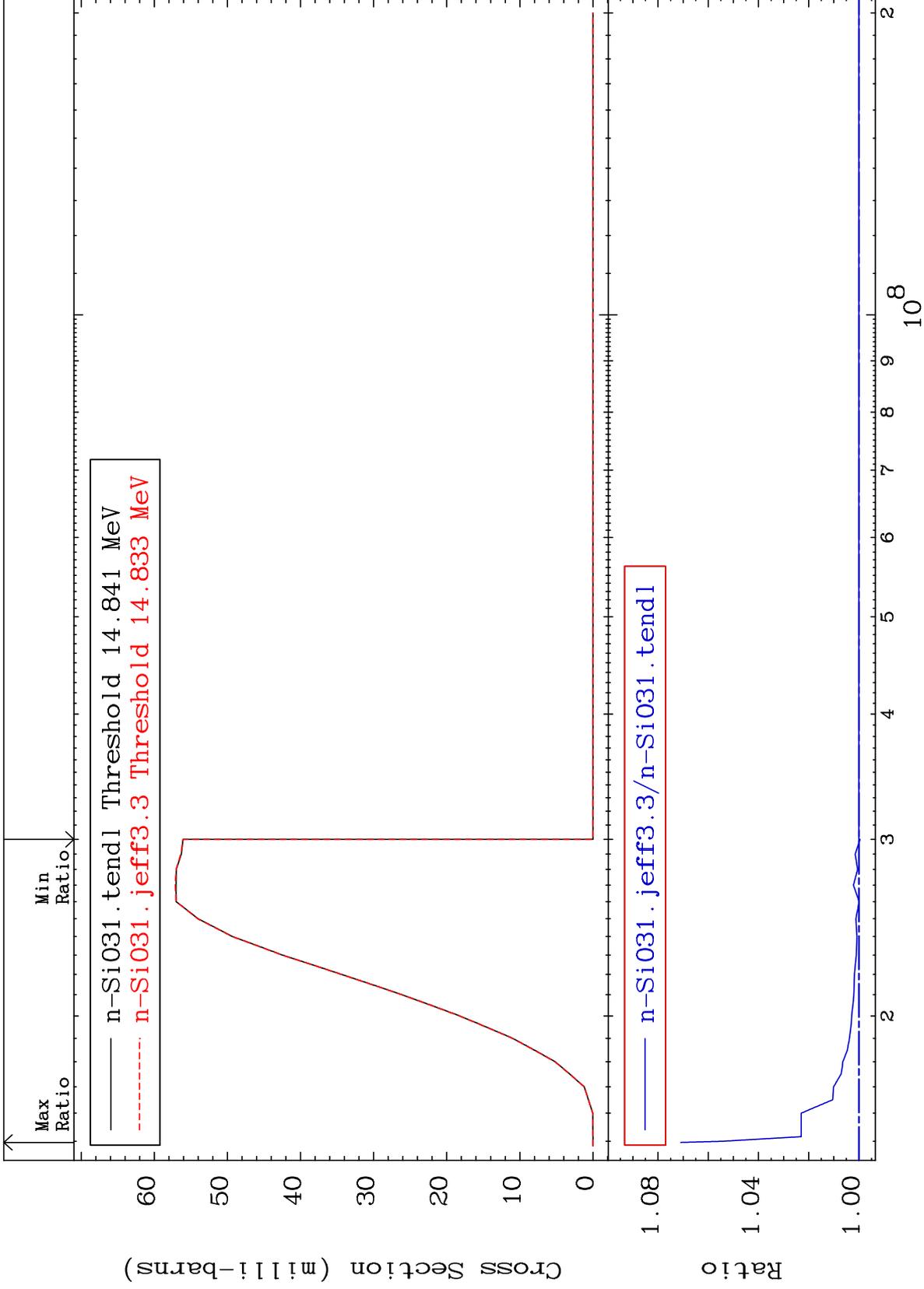
14-Si-31  
To 69.09 %  
0.000



MAT 1434

(n,n') p  
Cross Section

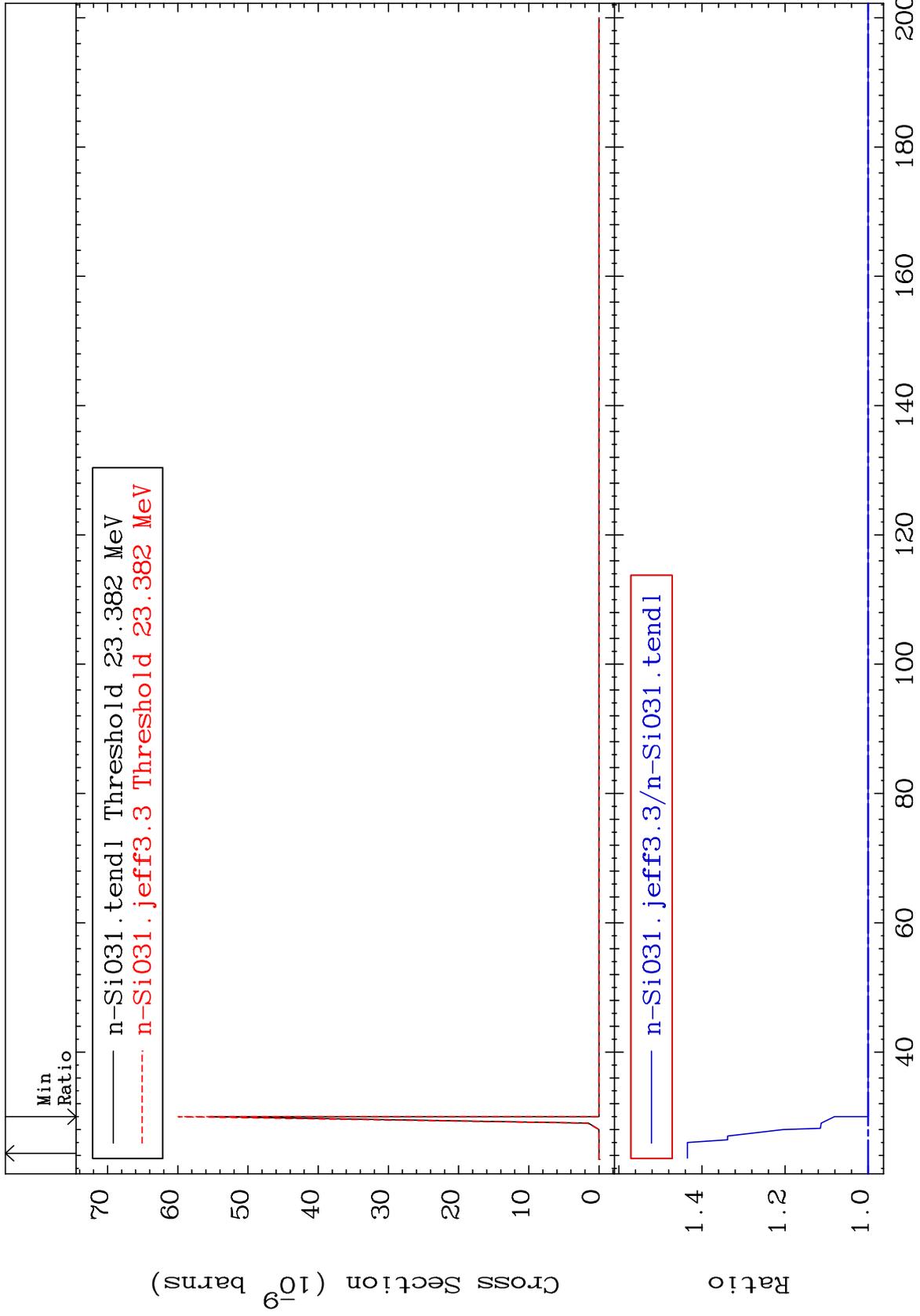
14-Si-31  
-0.047 To 7.095 %



MAT 1434

(n,n') 2α  
Cross Section

14-Si-31  
0.000 To 43.50 %



10

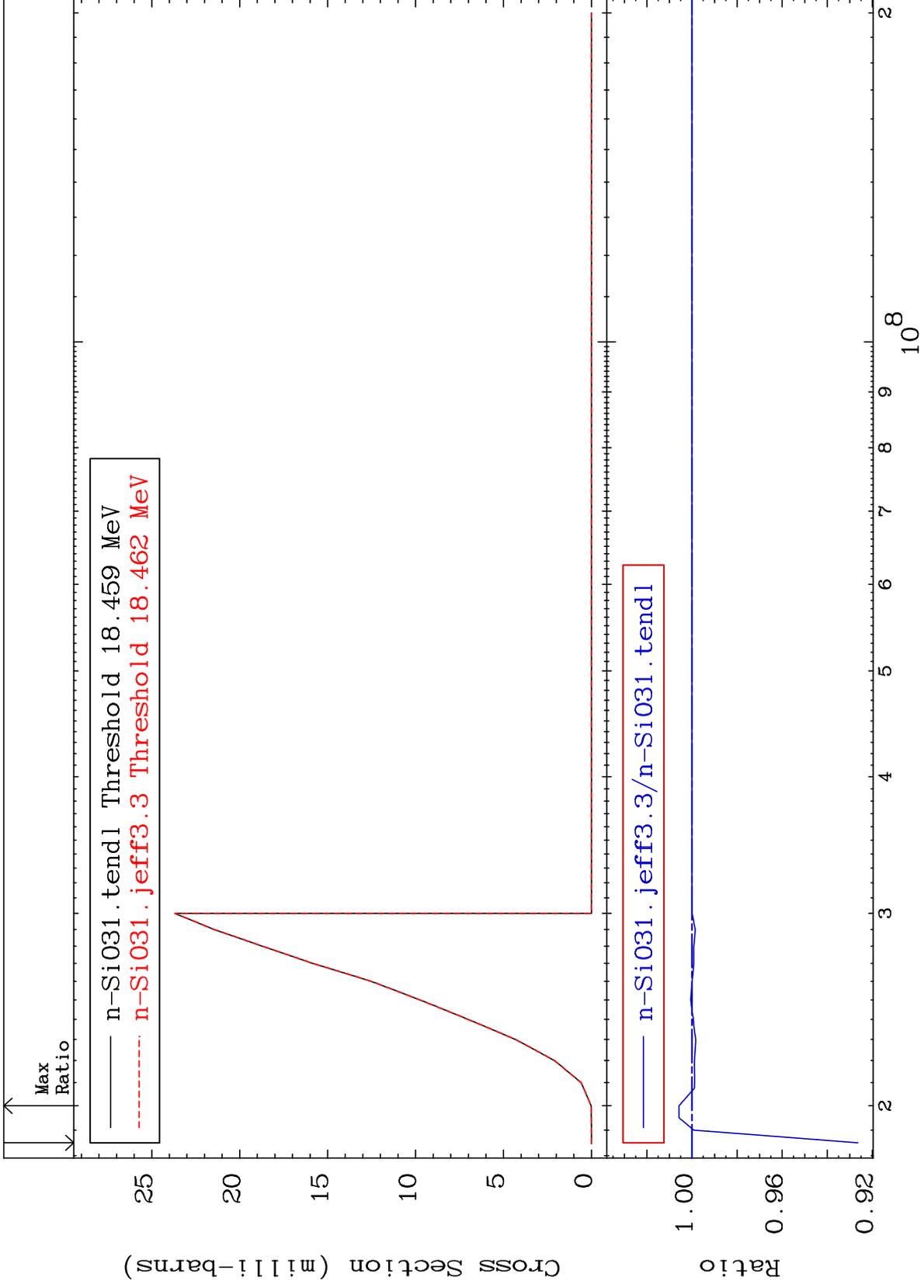
Incident Energy (MeV)

14-Si-31

MAT 1434

(n,n') d  
Cross Section

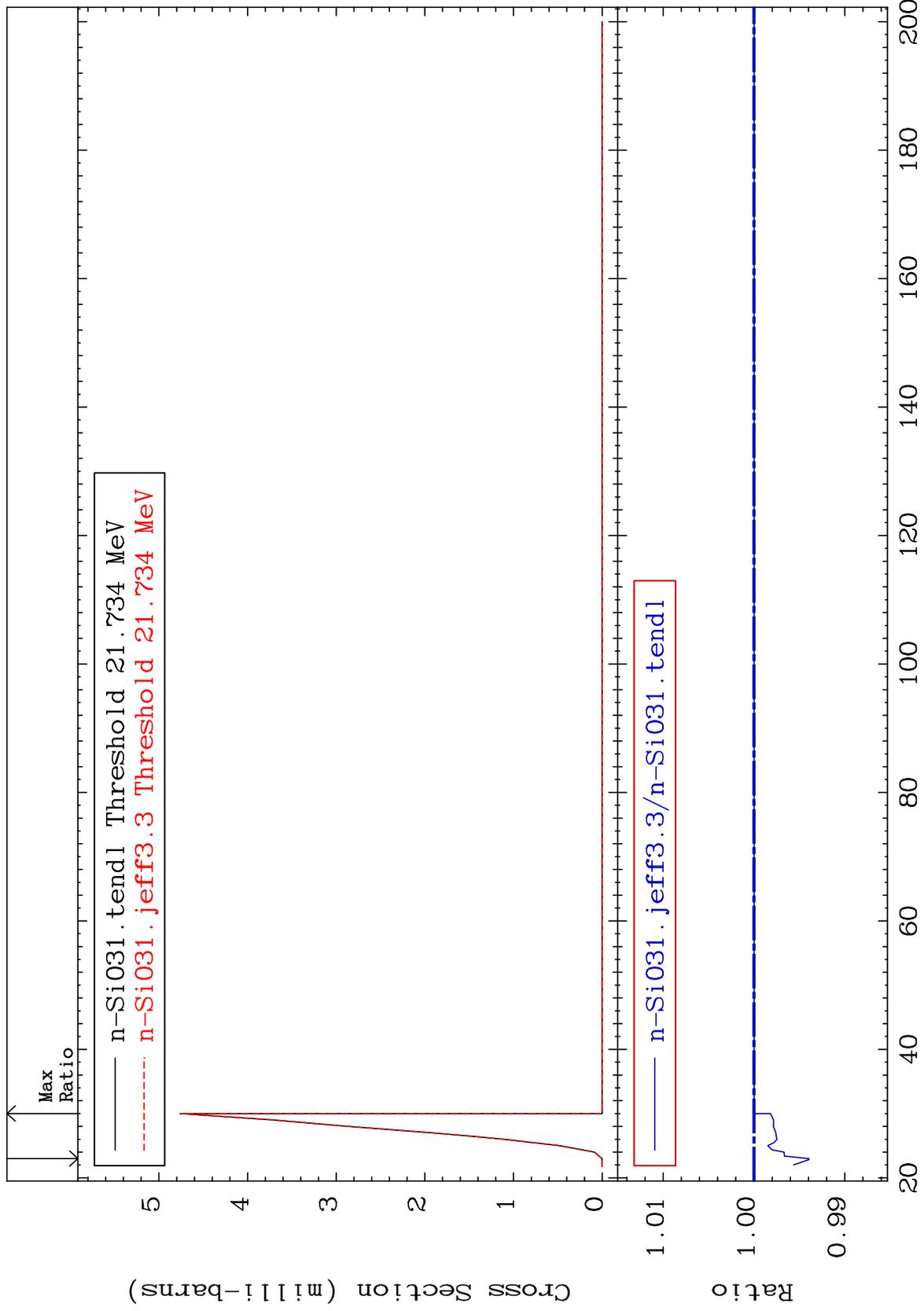
14-Si-31  
-7.359 To 0.574 %



MAT 1434

(n,n') t  
Cross Section

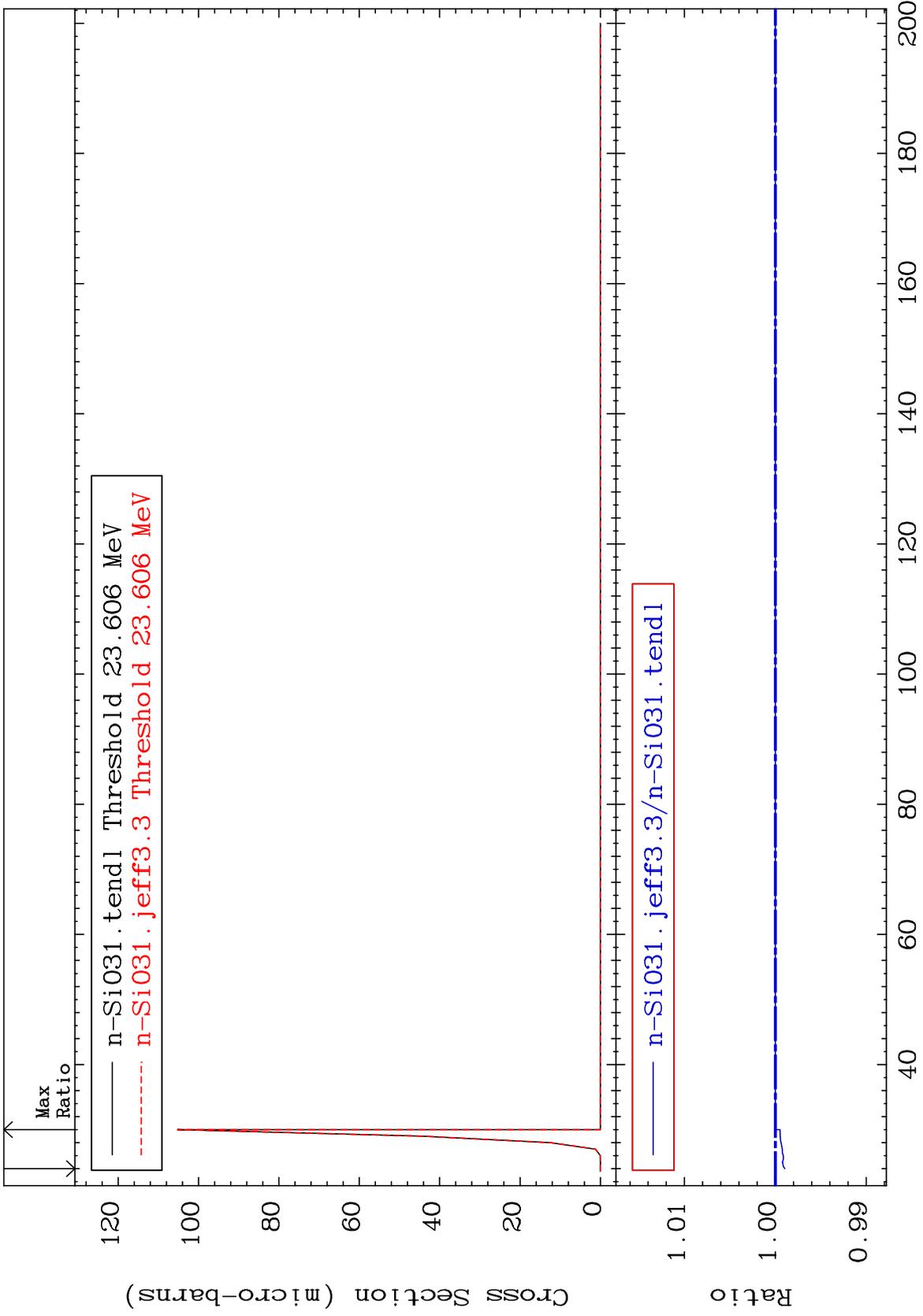
14-Si-31  
-0.604 To 0.000 %



MAT 1434

(n, n') He-3  
Cross Section

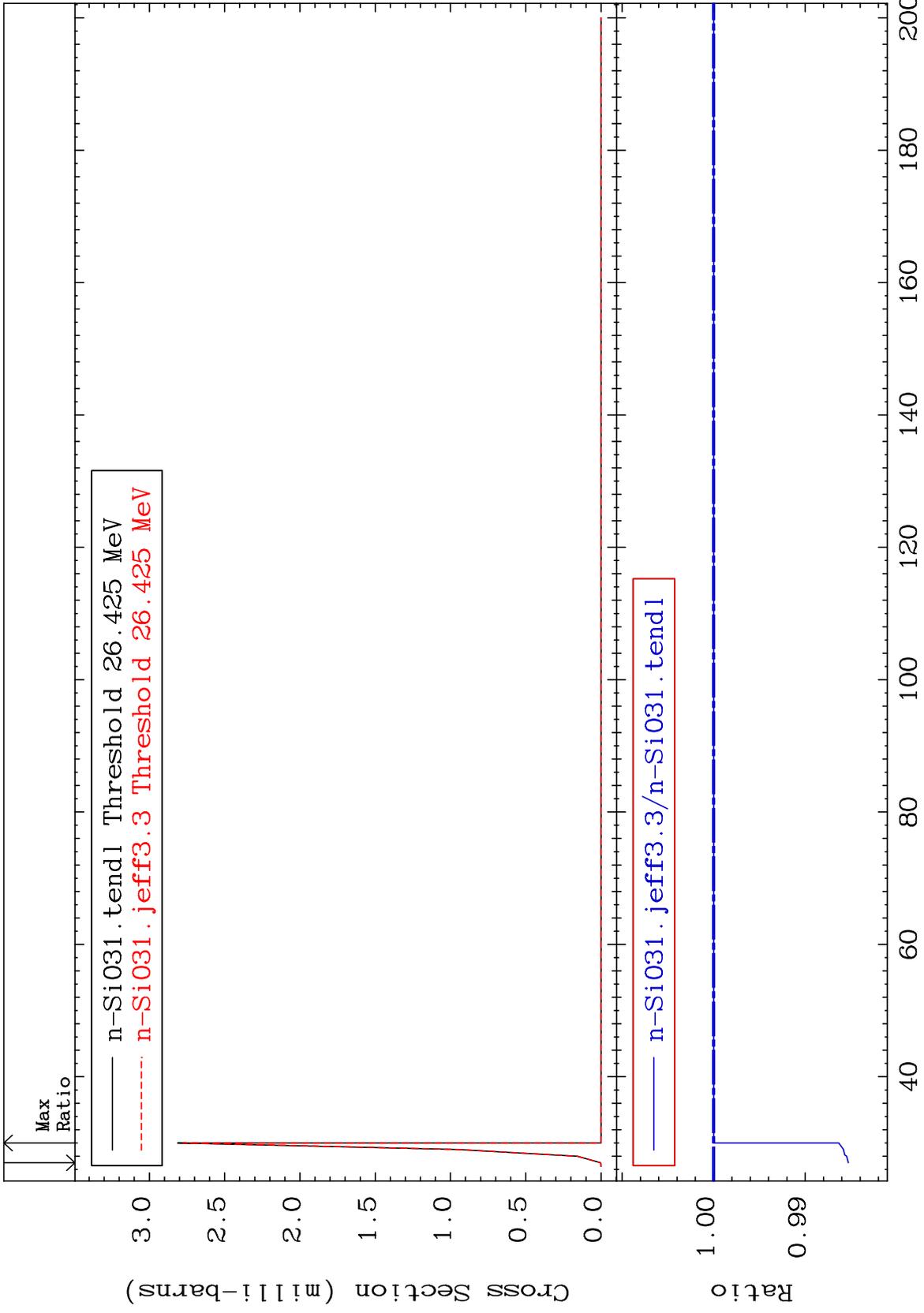
14-Si-31  
-0.105 To 0.000 %



MAT 1434

(n,4n)  
Cross Section

14-Si-31  
-1.470 To 0.000 %



14

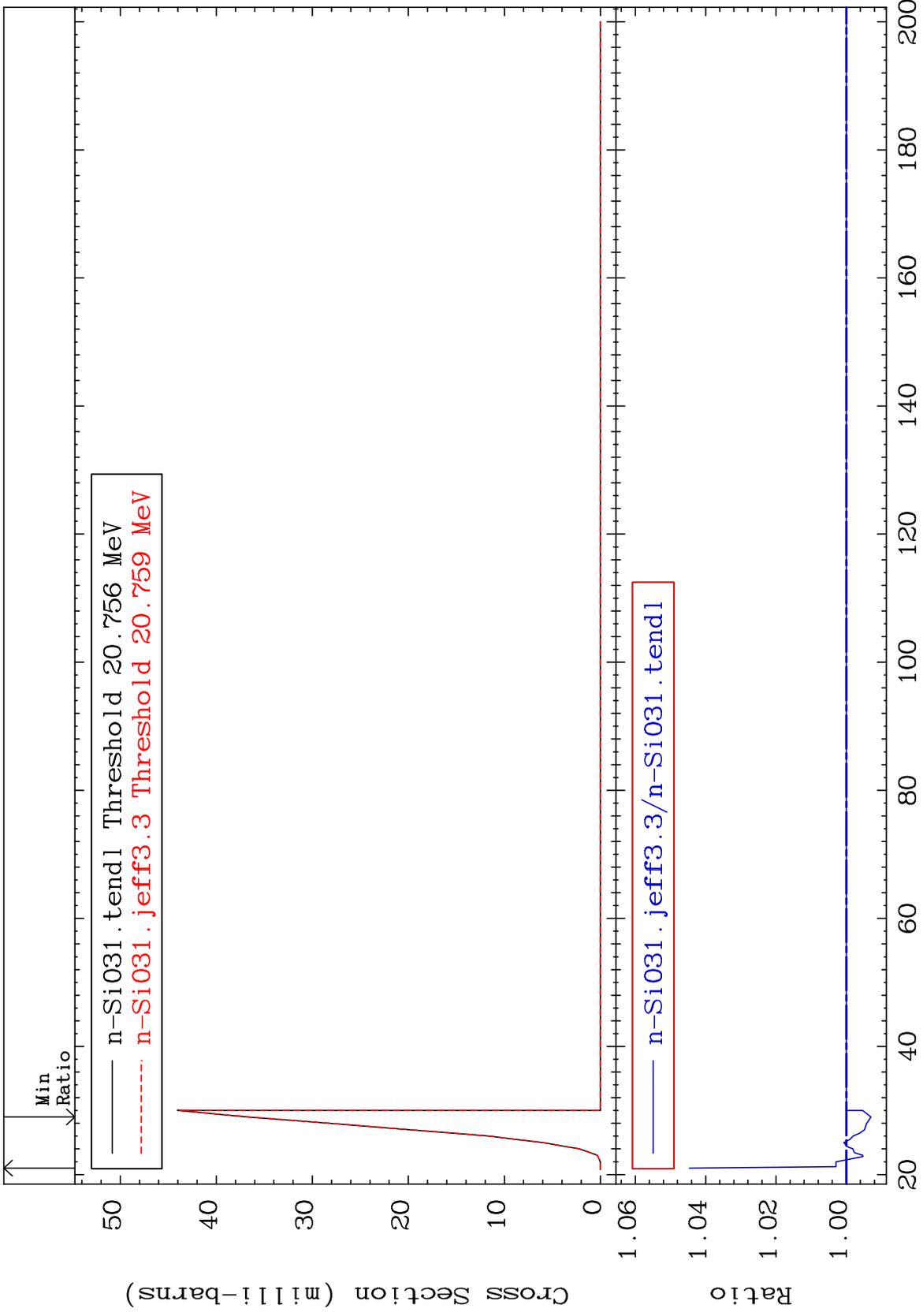
Incident Energy (MeV)

14-Si-31

MAT 1434

(n,2n) p  
Cross Section

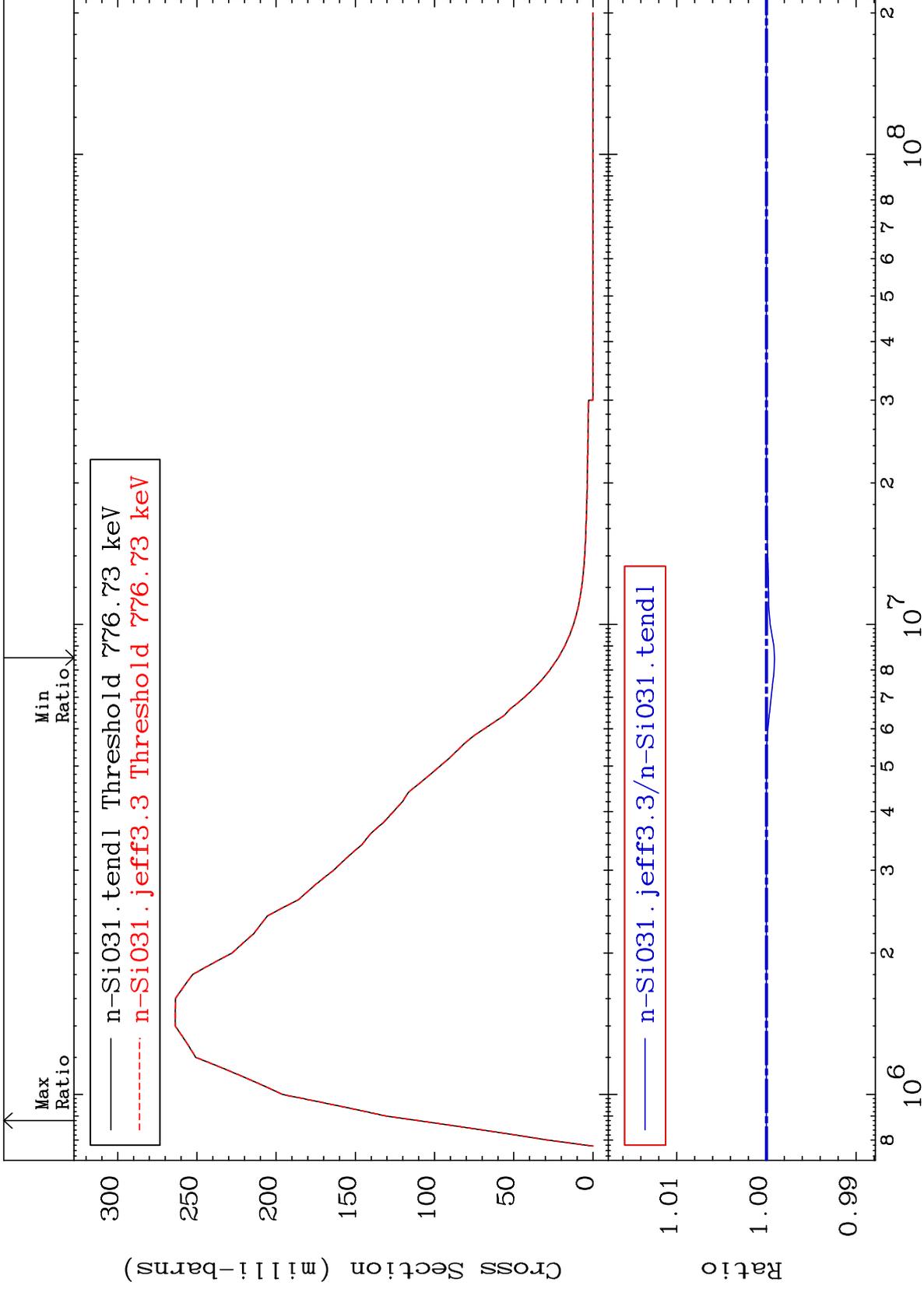
<sup>14</sup>Si-31  
-0.698 To 4.465 %



MAT 1434

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

14-Si-31  
-0.090 To 0.000 %



16

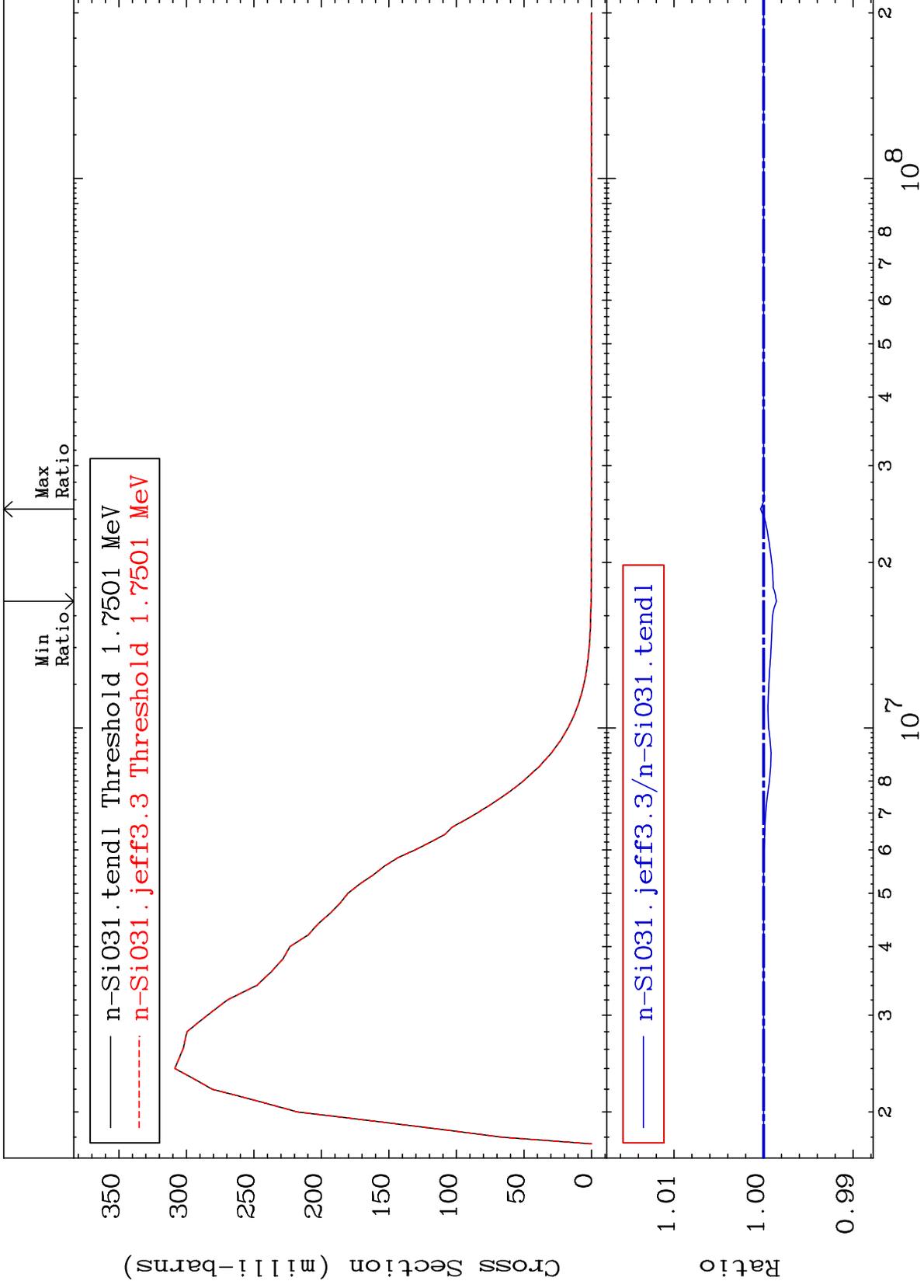
Incident Energy (eV)

14-Si-31

MAT 1434

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

14-Si-31  
-0.143 To 0.034 %



17

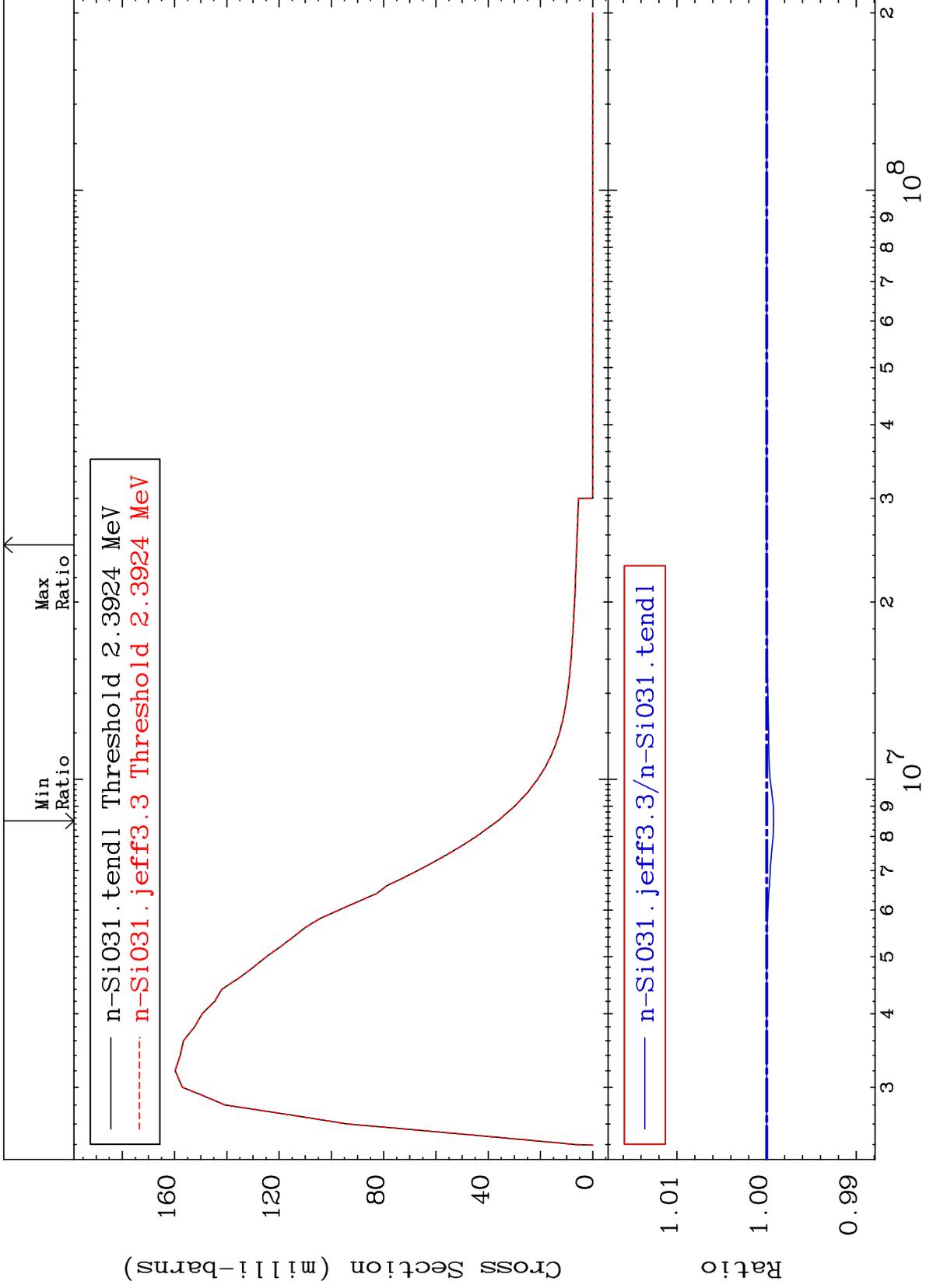
Incident Energy (eV)

14-Si-31

MAT 1434

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

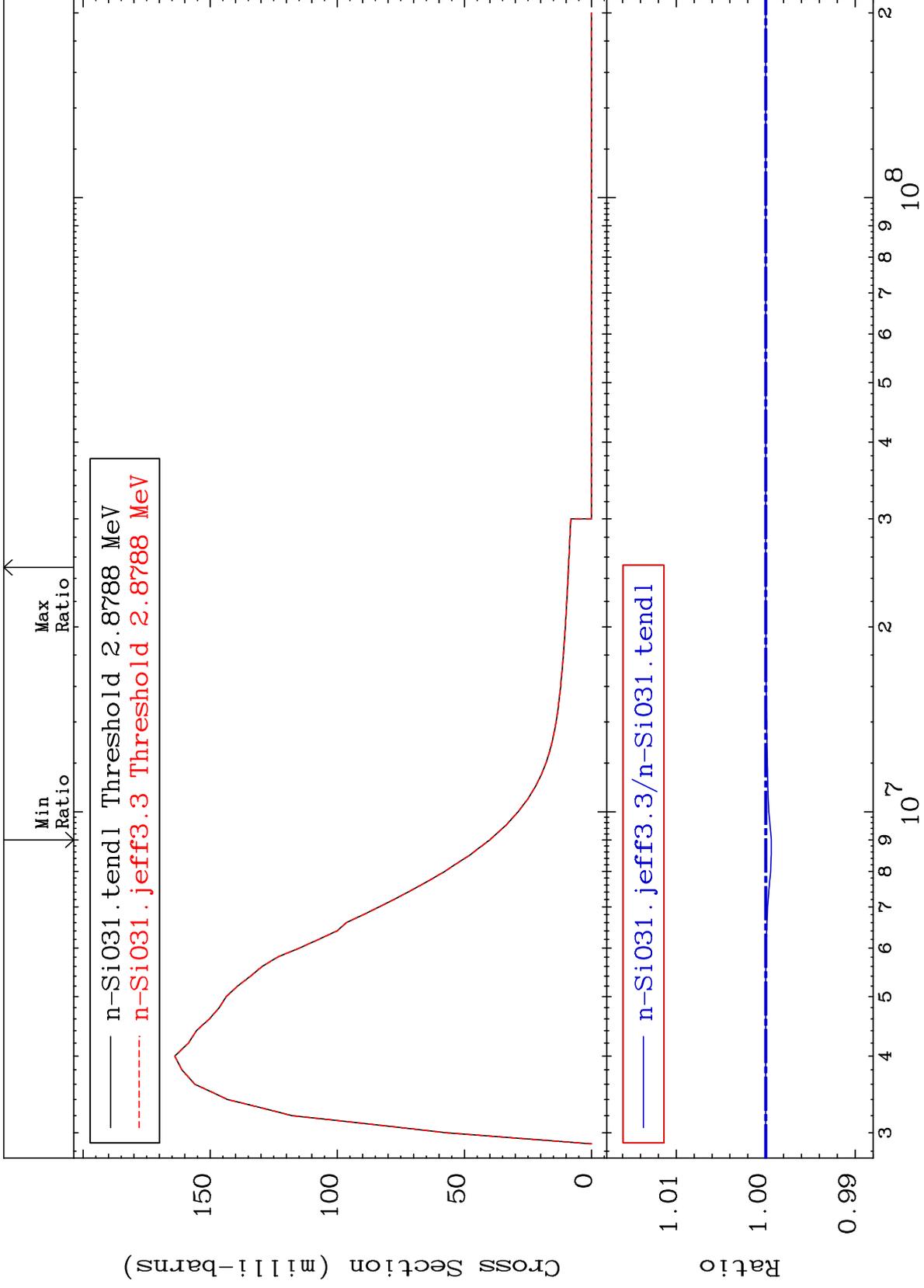
14-Si-31  
-0.078 To 0.000 %



MAT 1434

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

14-Si-31  
-0.062 To 0.000 %



19

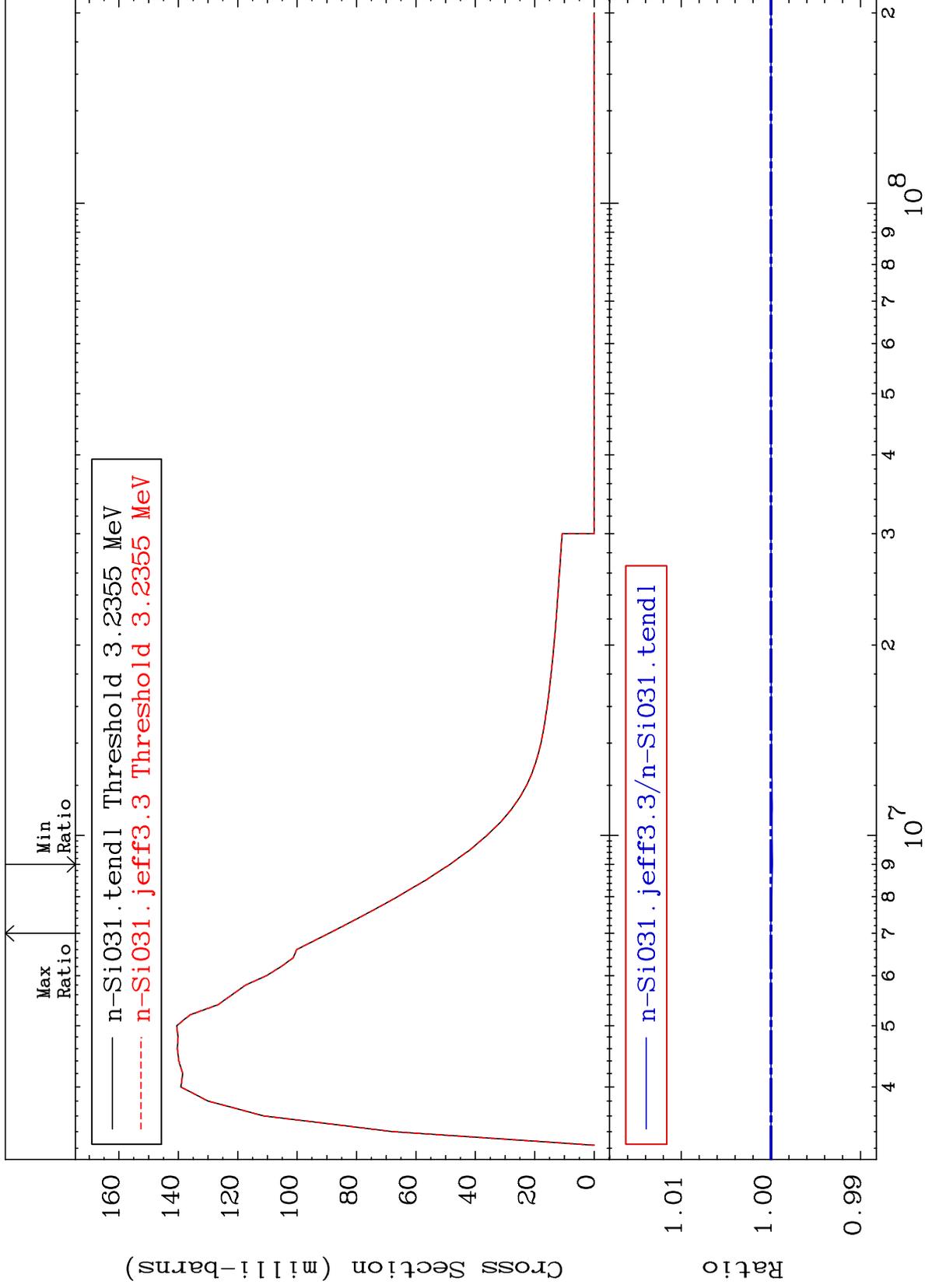
Incident Energy (eV)

14-Si-31

MAT 1434

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

14-Si-31  
-0.017 To 0.004 %



20

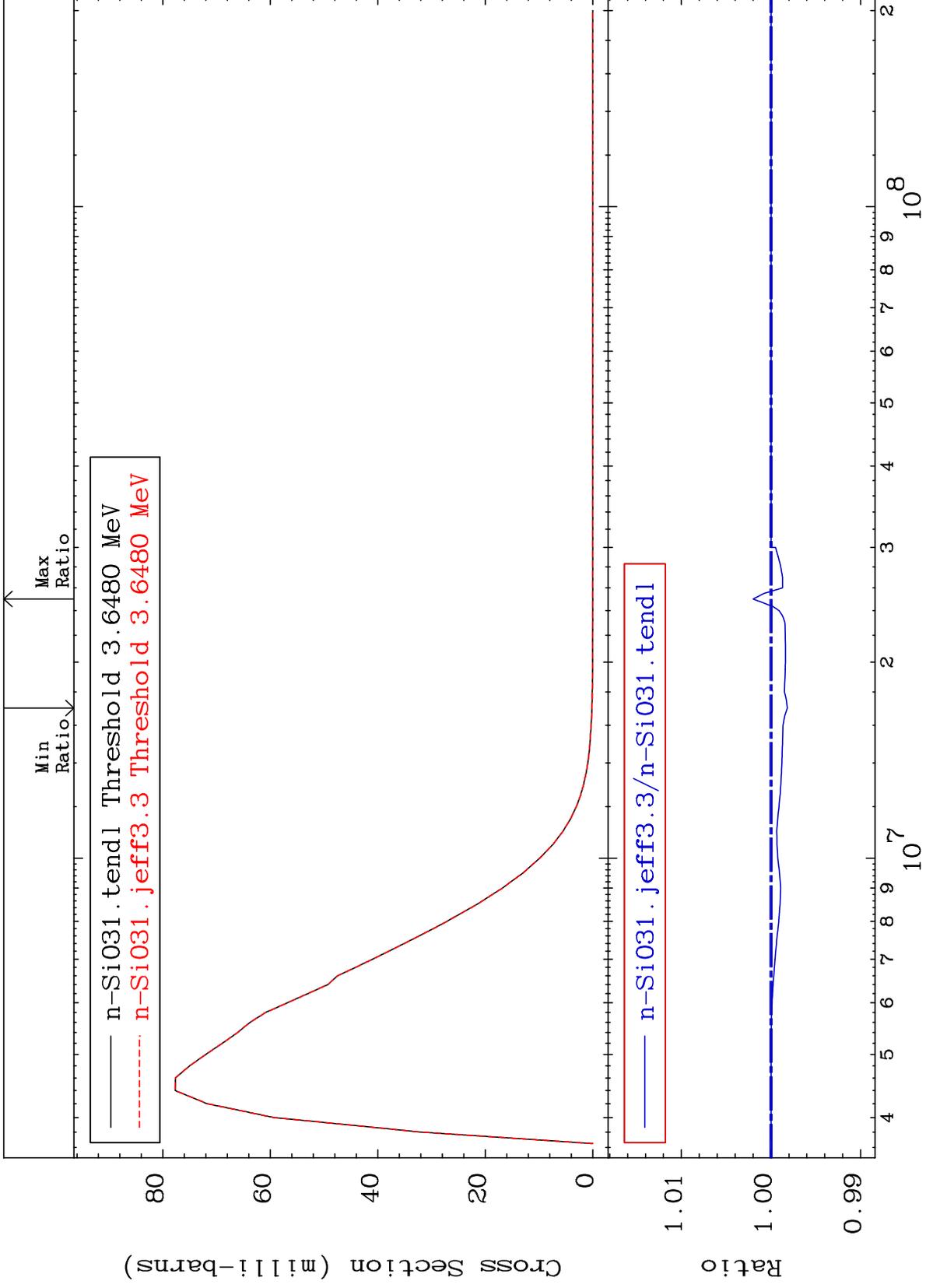
Incident Energy (eV)

14-Si-31

MAT 1434

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

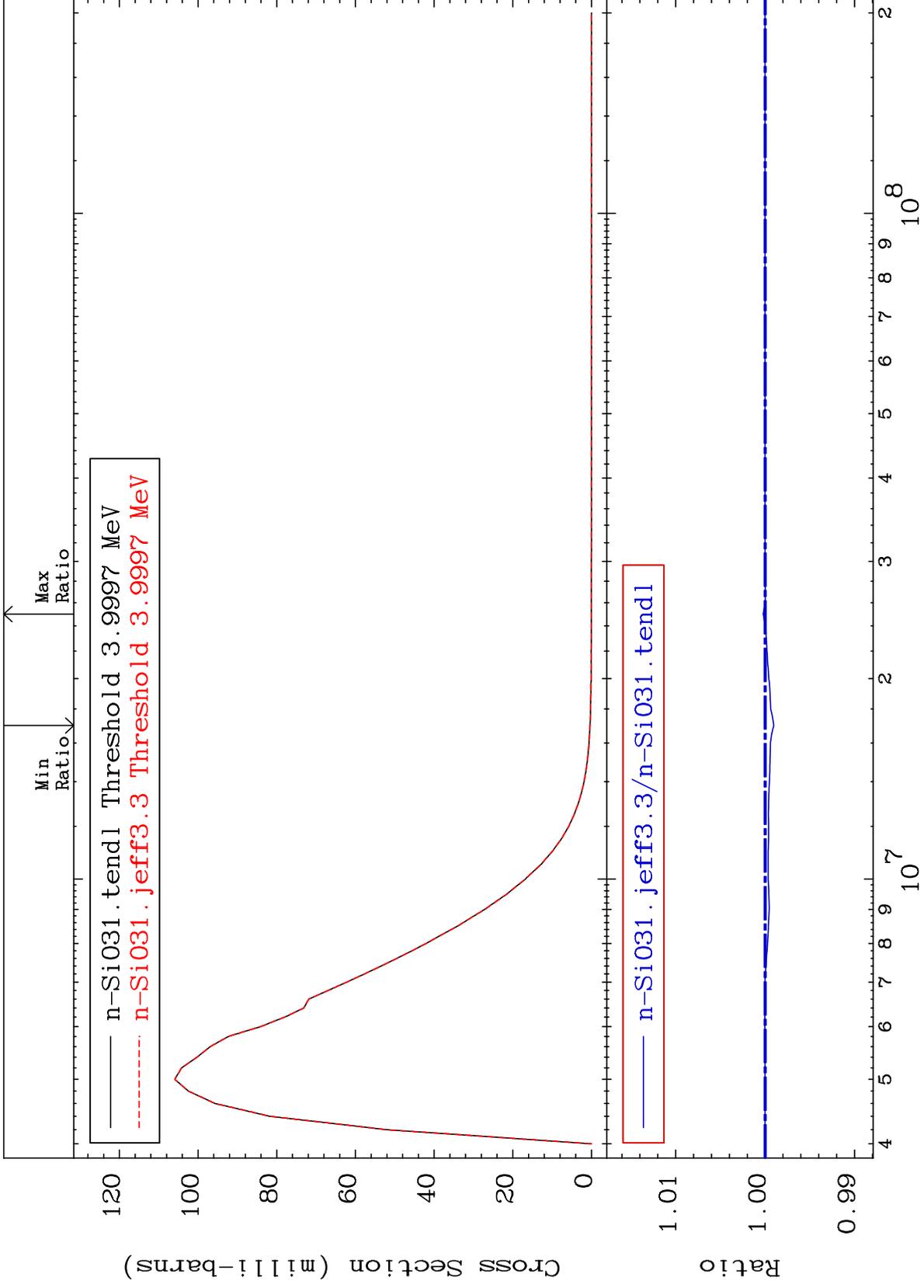
14-Si-31  
-0.182 To 0.201 %



MAT 1434

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

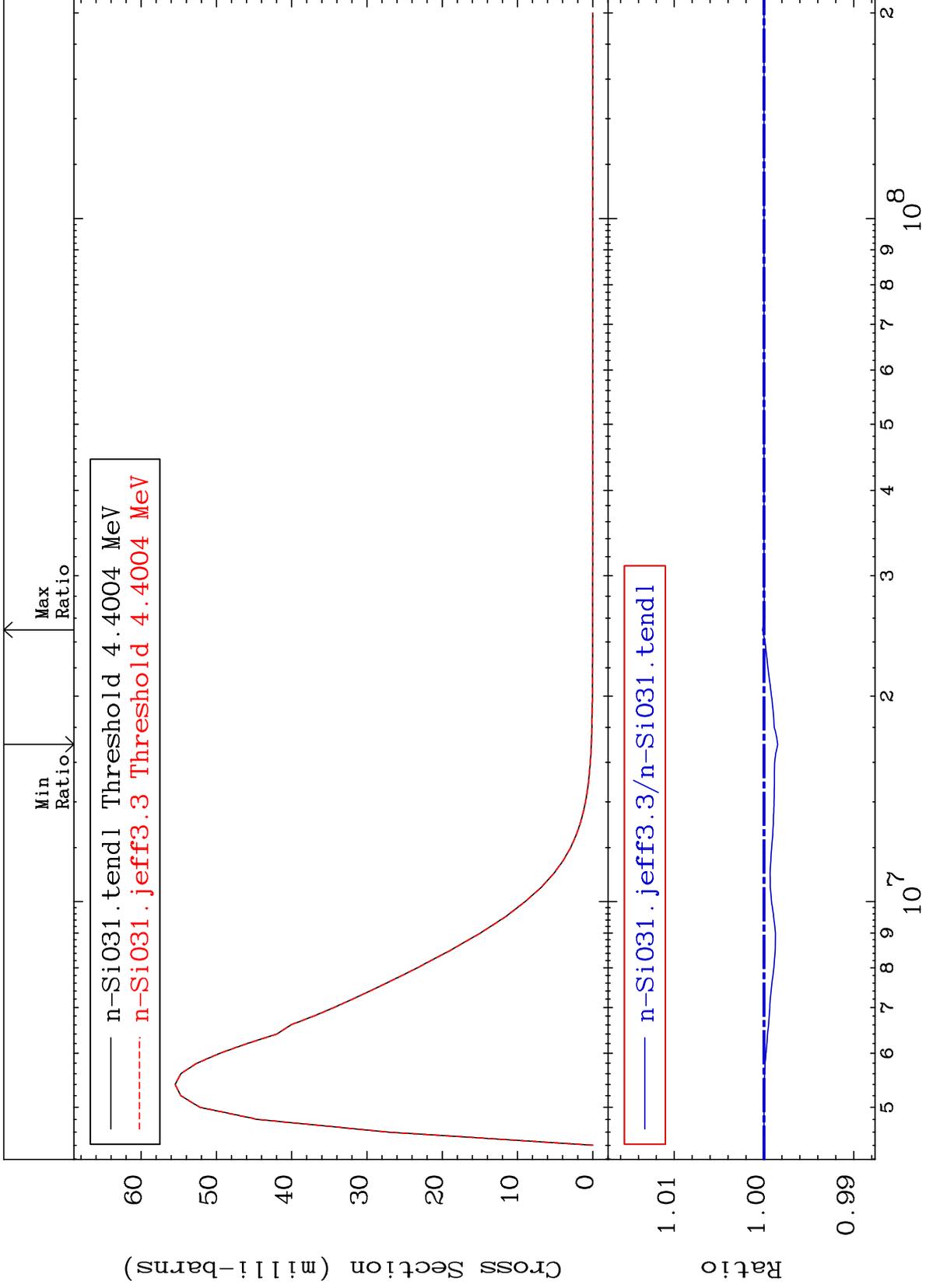
14-Si-31  
-0.096 To 0.021 %



MAT 1434

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

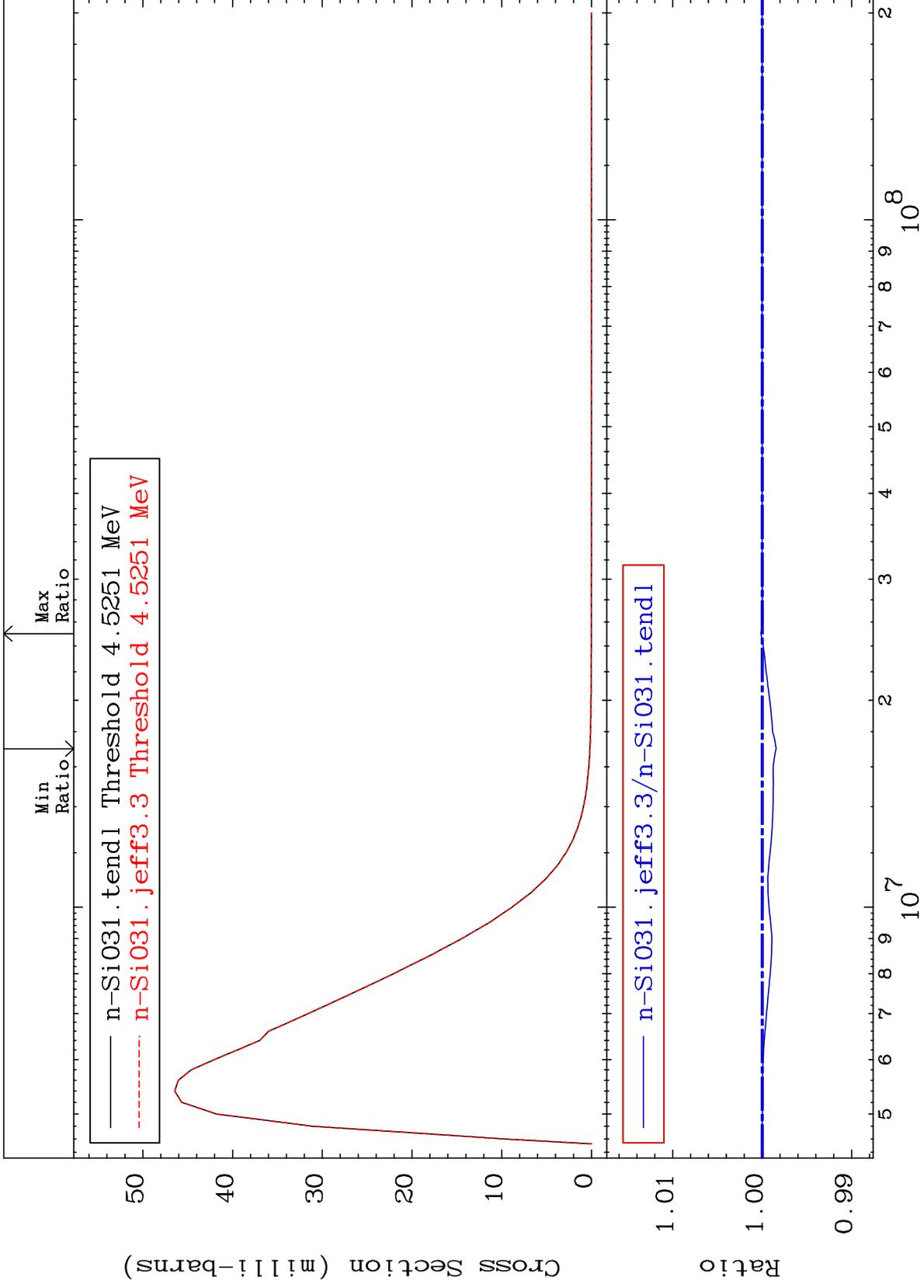
14-Si-31  
-0.153 To 0.016 %



MAT 1434

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

14-Si-31  
-0.156 To 0.015 %



24

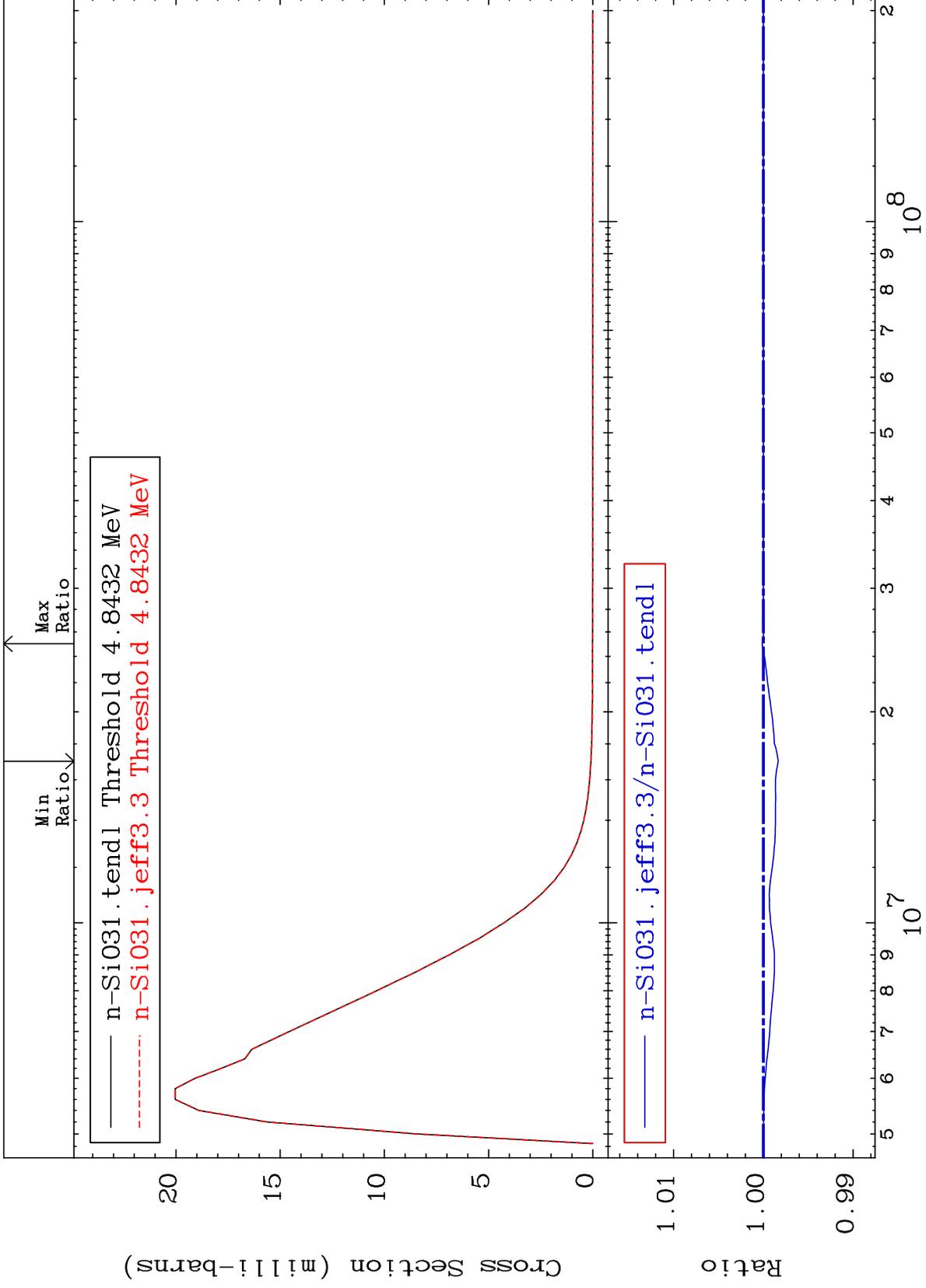
14-Si-31

14-Si-31

MAT 1434

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

14-Si-31  
-0.166 To 0.014 %



25

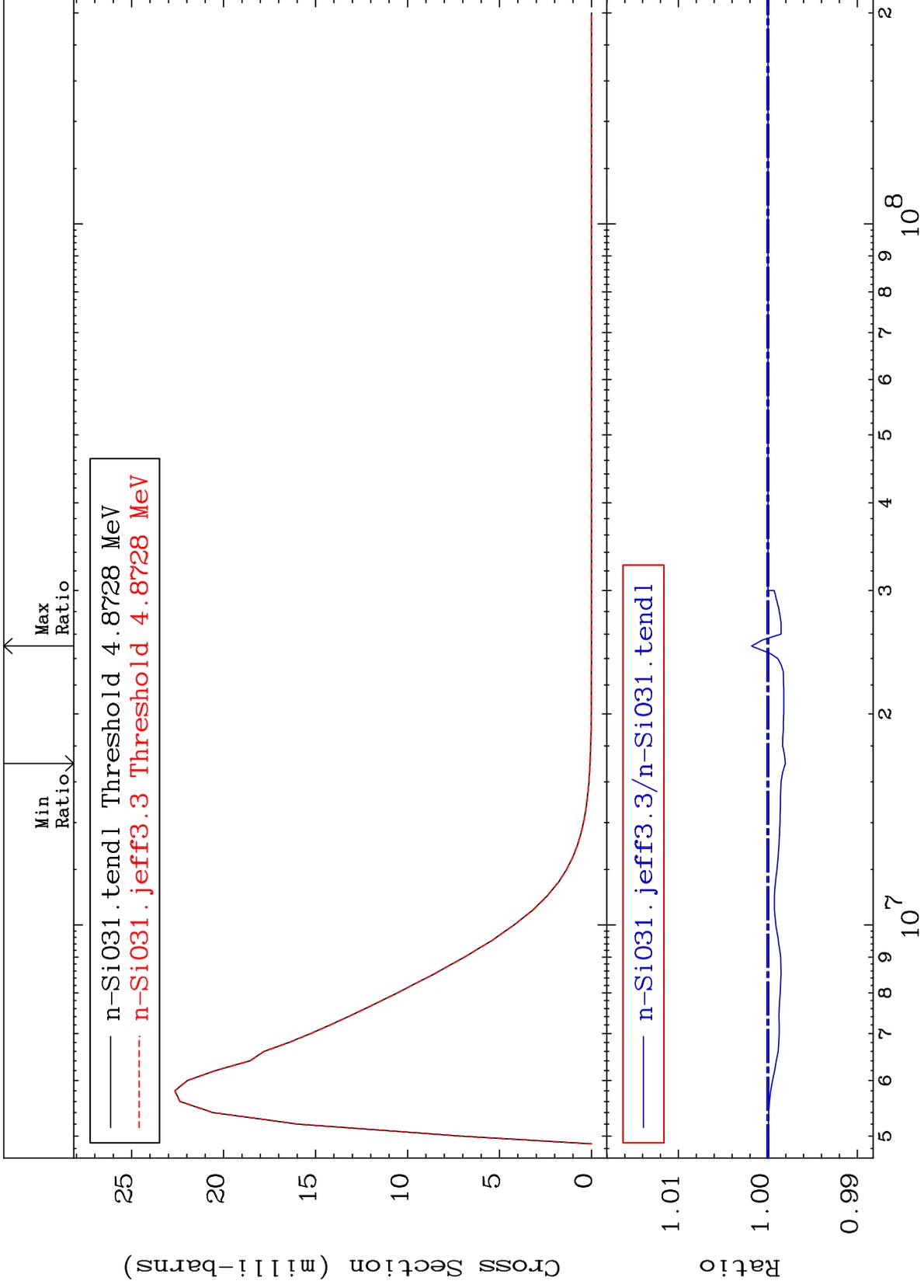
Incident Energy (eV)

14-Si-31

MAT 1434

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

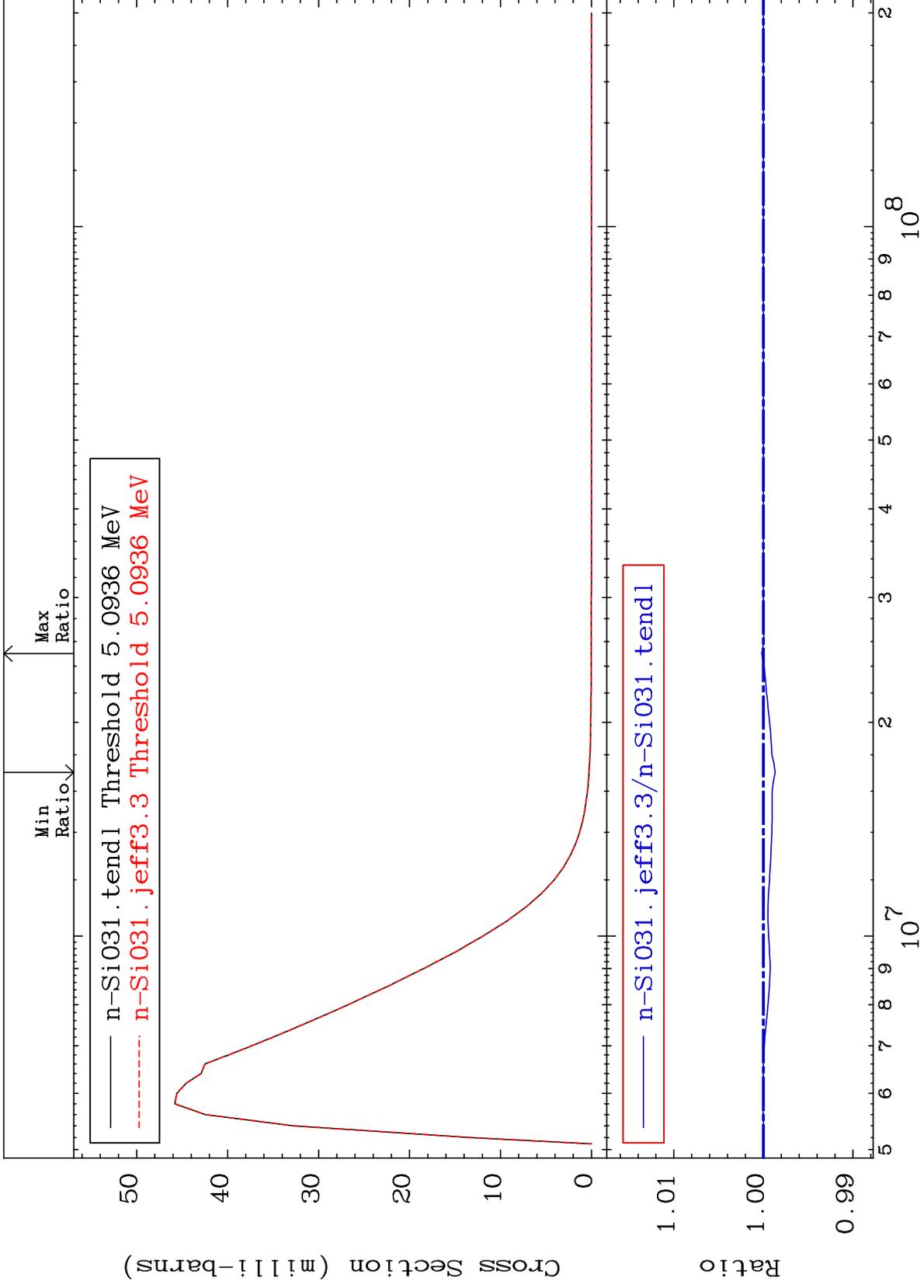
14-Si-31  
-0.196 To 0.182 %



MAT 1434

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

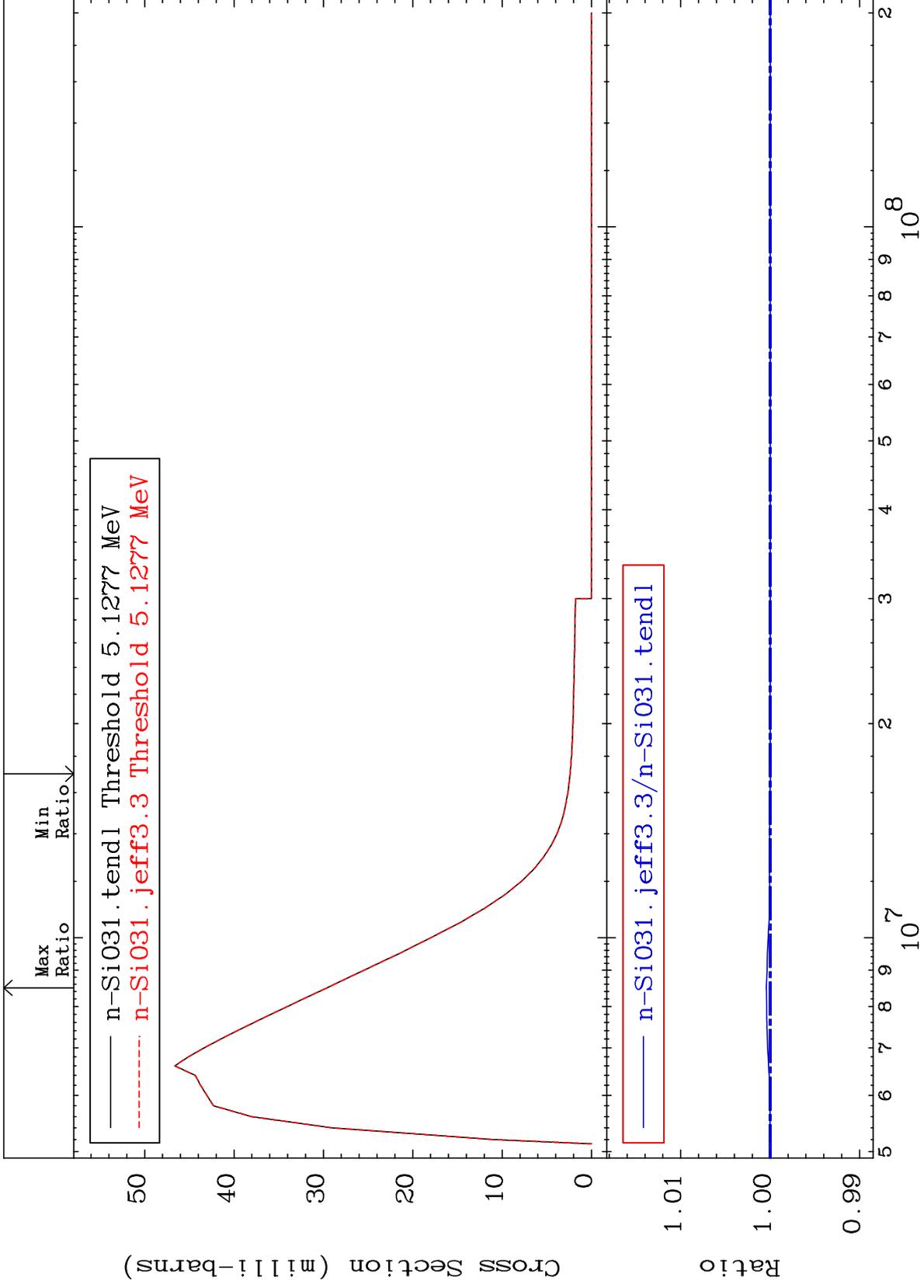
14-Si-31  
-0.132 To 0.018 %



MAT 1434

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

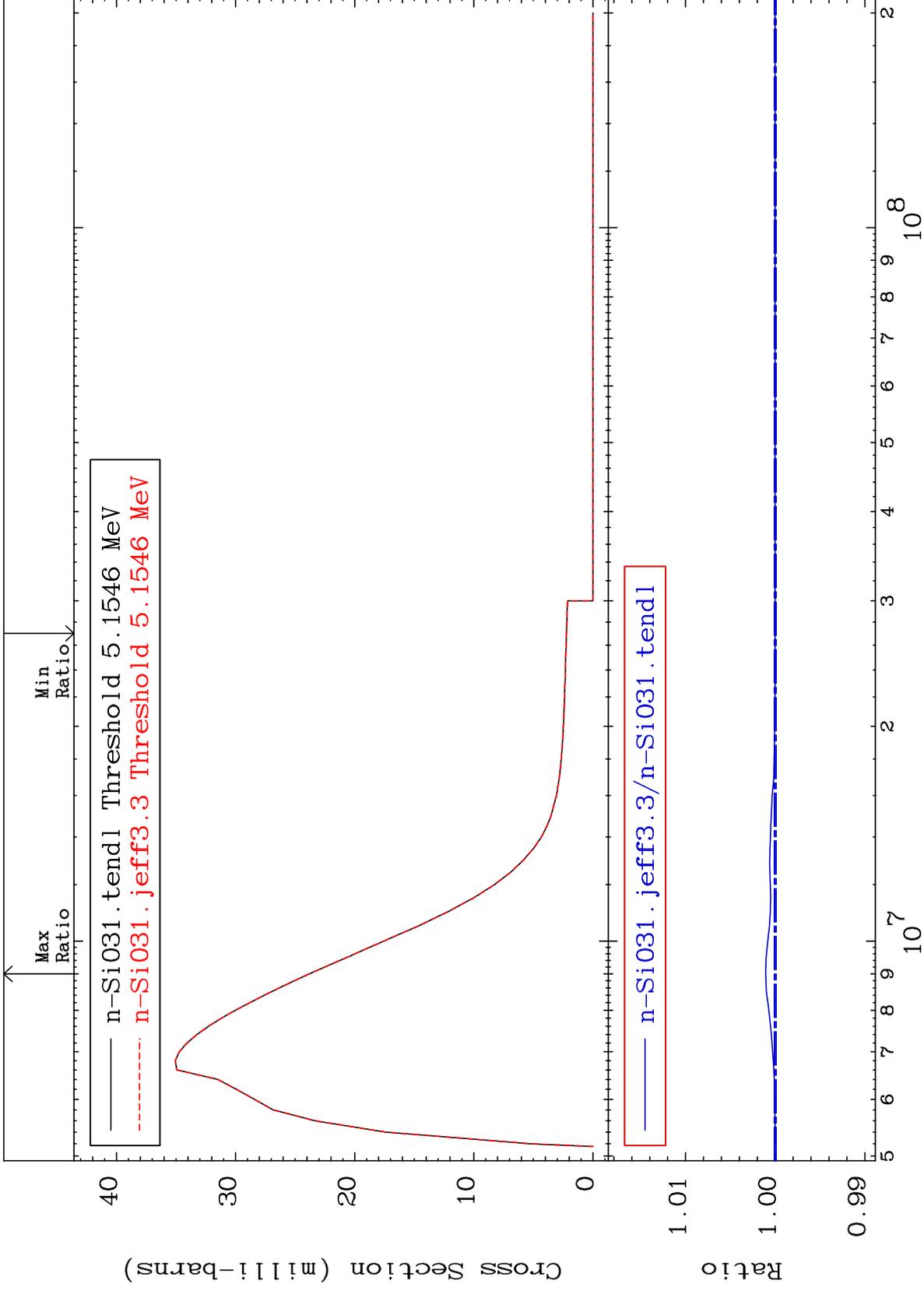
14-Si-31  
-0.005 To 0.043 %



MAT 1434

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

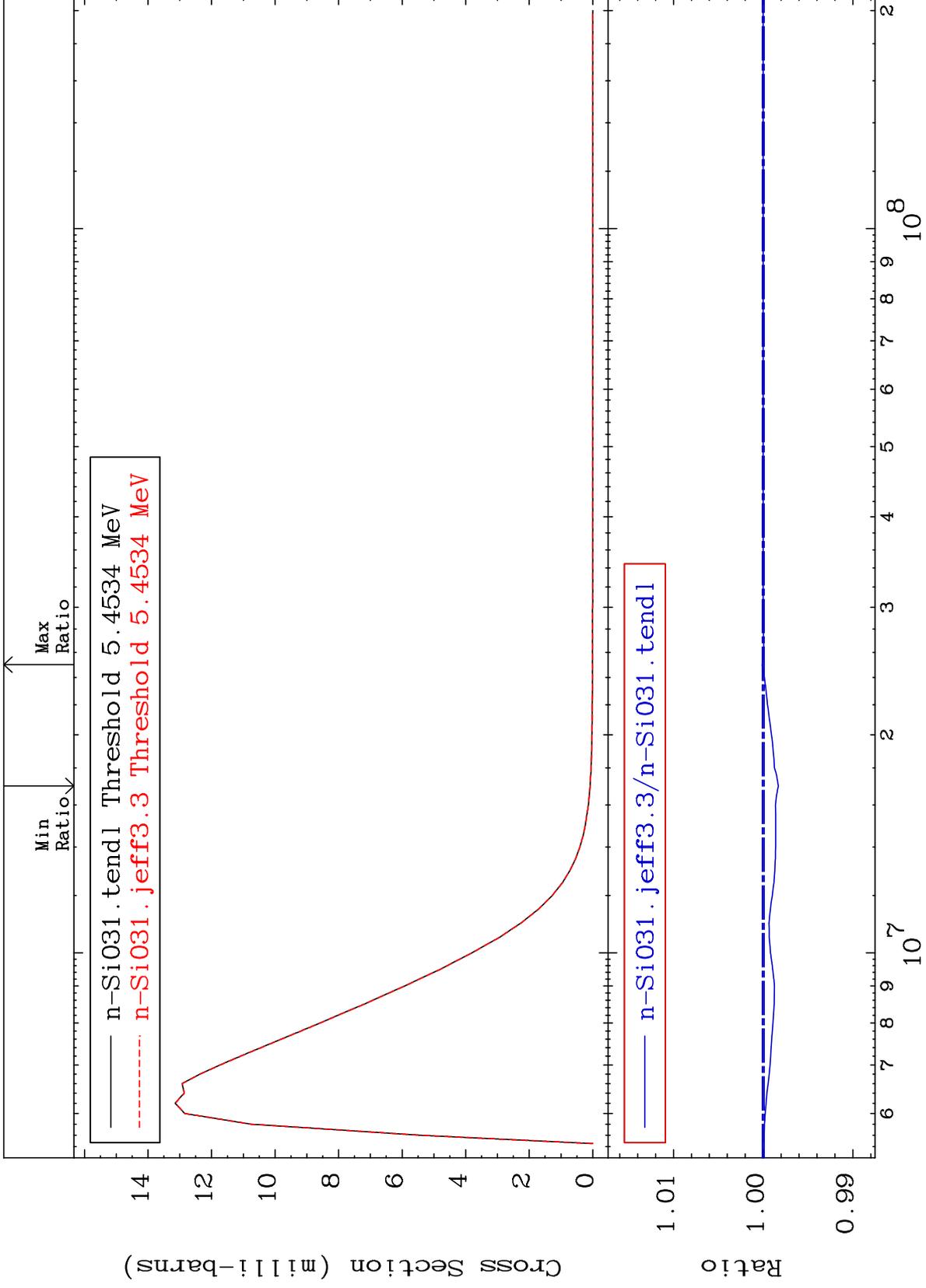
14-Si-31  
0.000 To 0.106 %



MAT 1434

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

14-Si-31  
-0.168 To 0.013 %



30

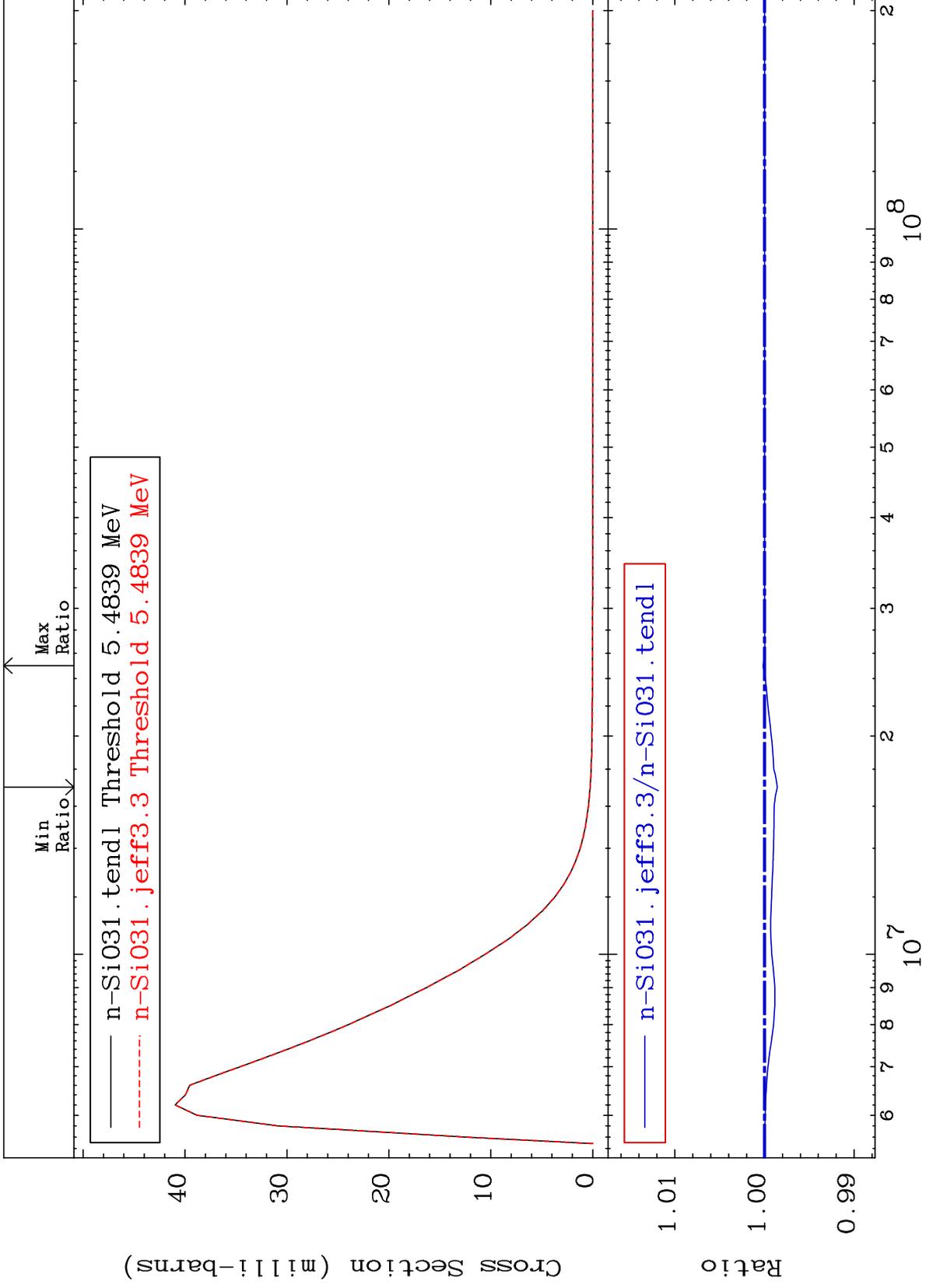
Incident Energy (eV)

14-Si-31

MAT 1434

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

14-Si-31  
-0.142 To 0.017 %



31

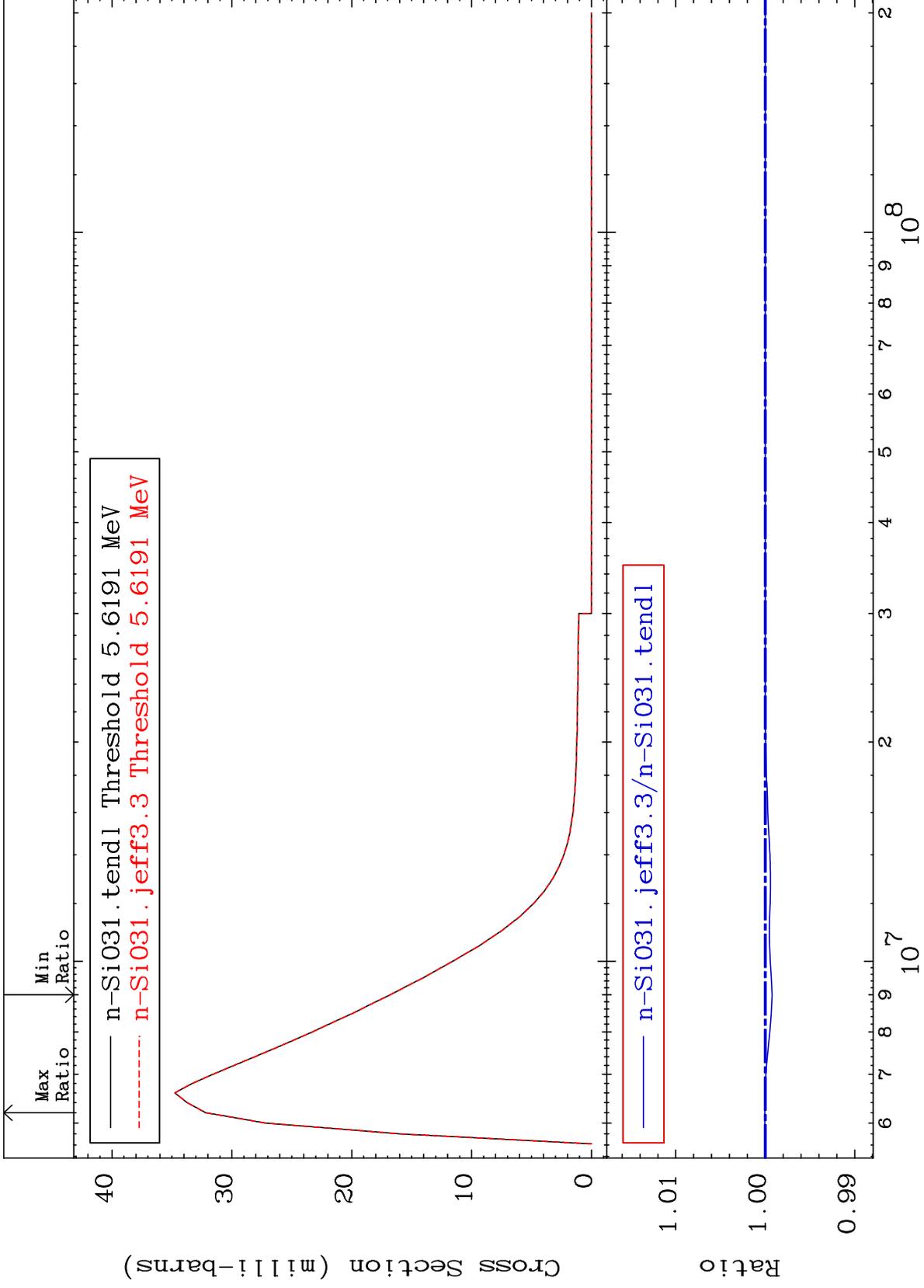
Incident Energy (eV)

14-Si-31

MAT 1434

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

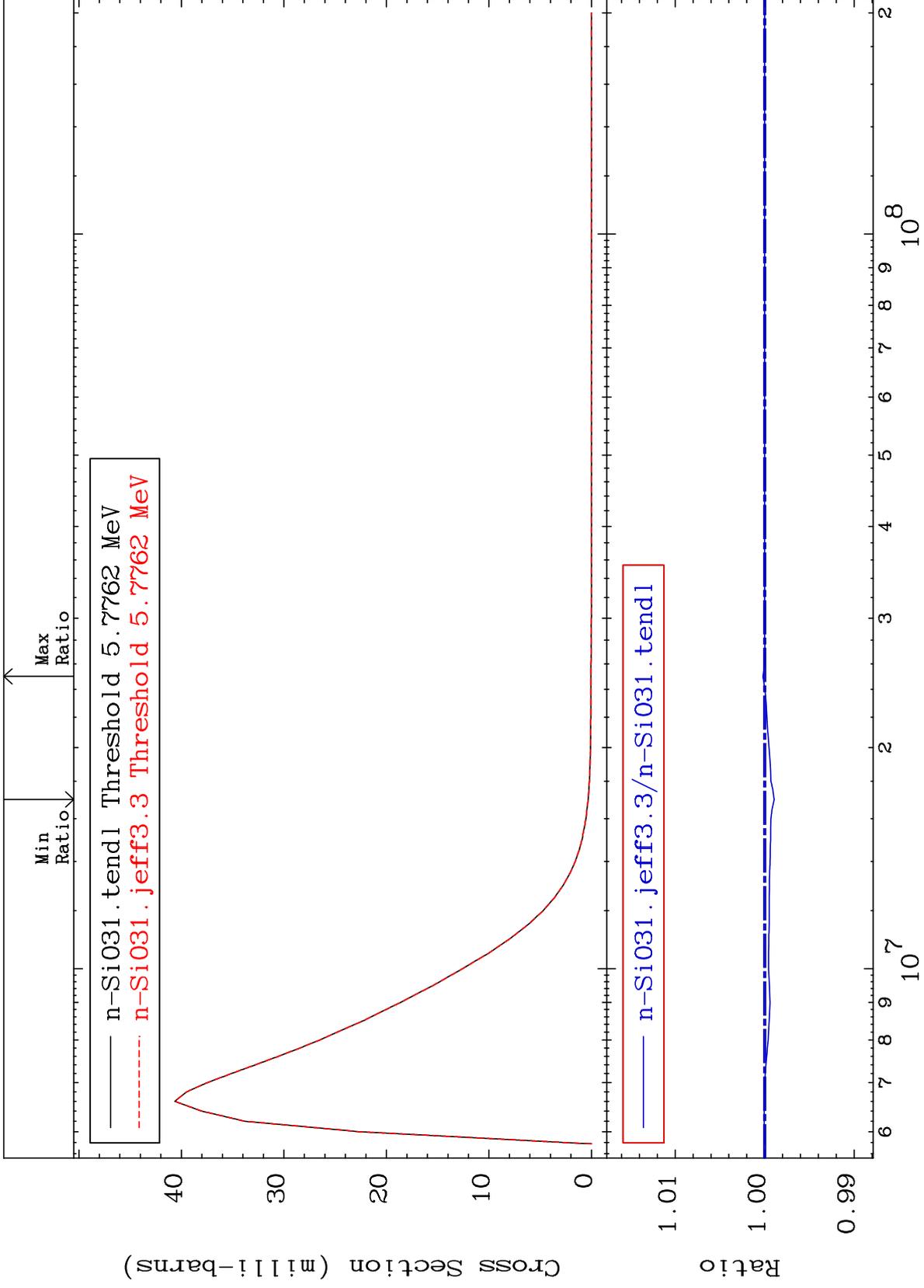
14-Si-31  
-0.077 To 0.005 %



MAT 1434

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

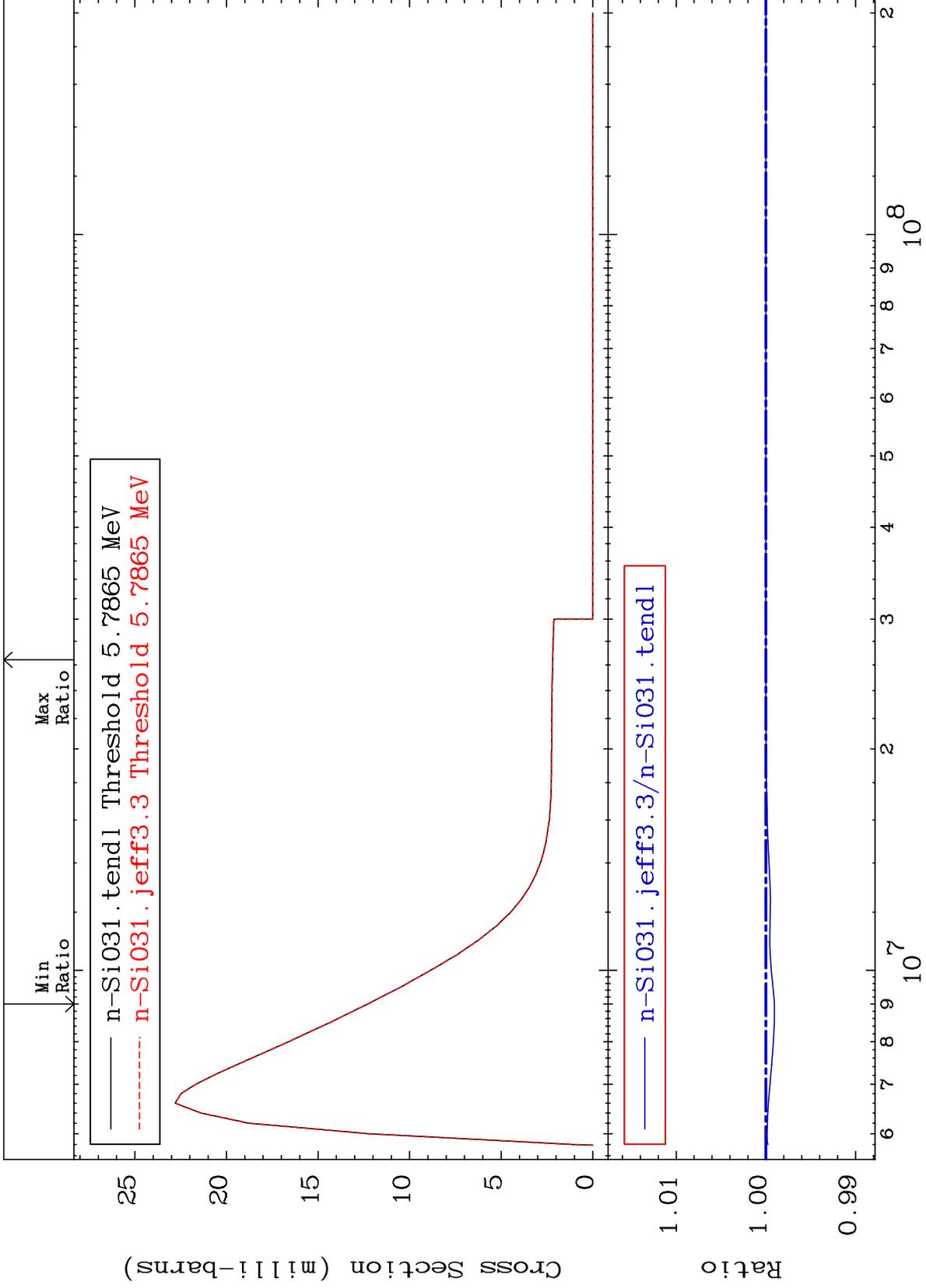
14-Si-31  
-0.105 To 0.020 %



MAT 1434

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

14-Si-31  
-0.095 To 0.000 %



34

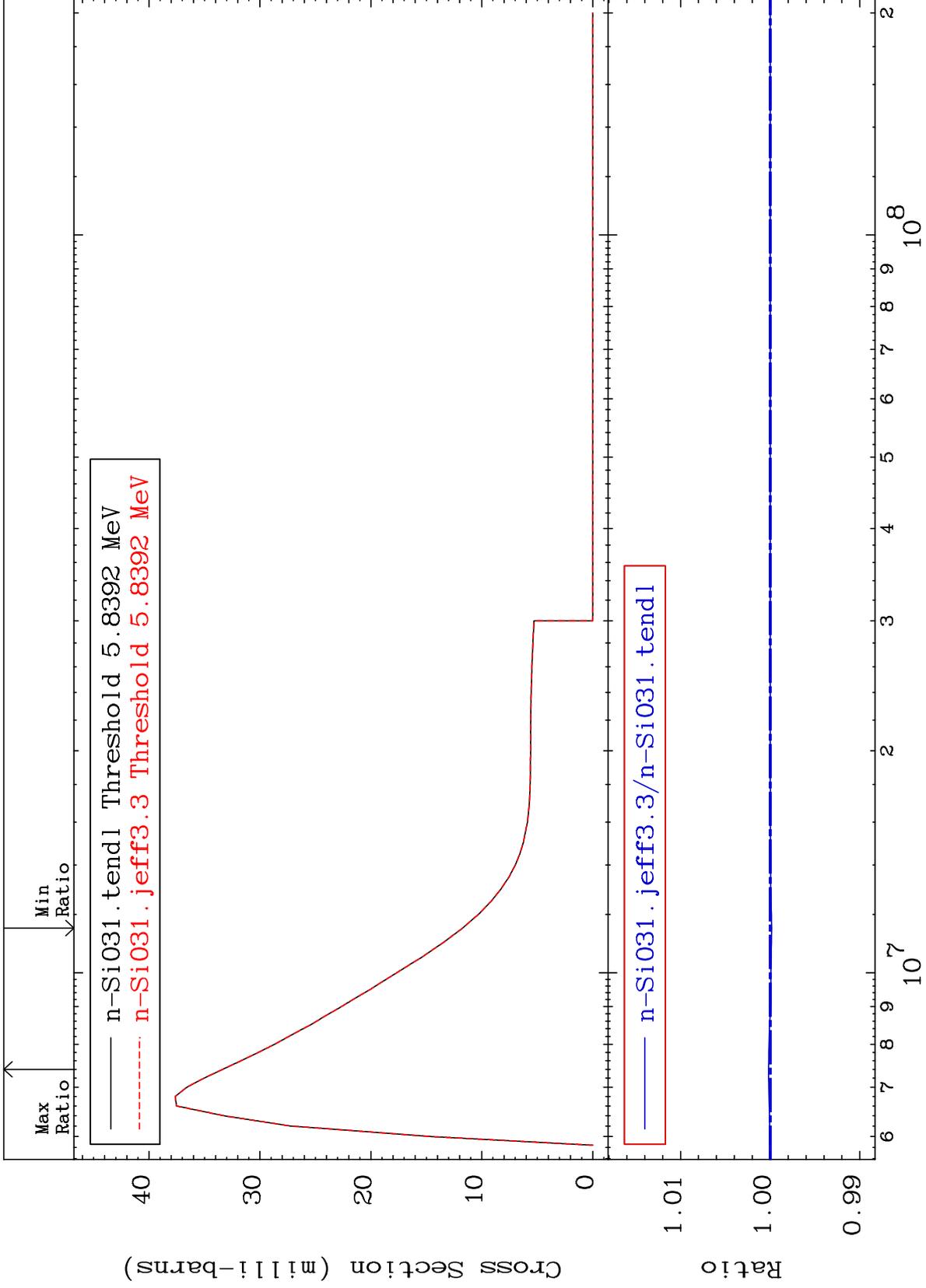
Incident Energy (eV)

14-Si-31

MAT 1434

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

14-Si-31  
-0.016 To 0.018 %



35

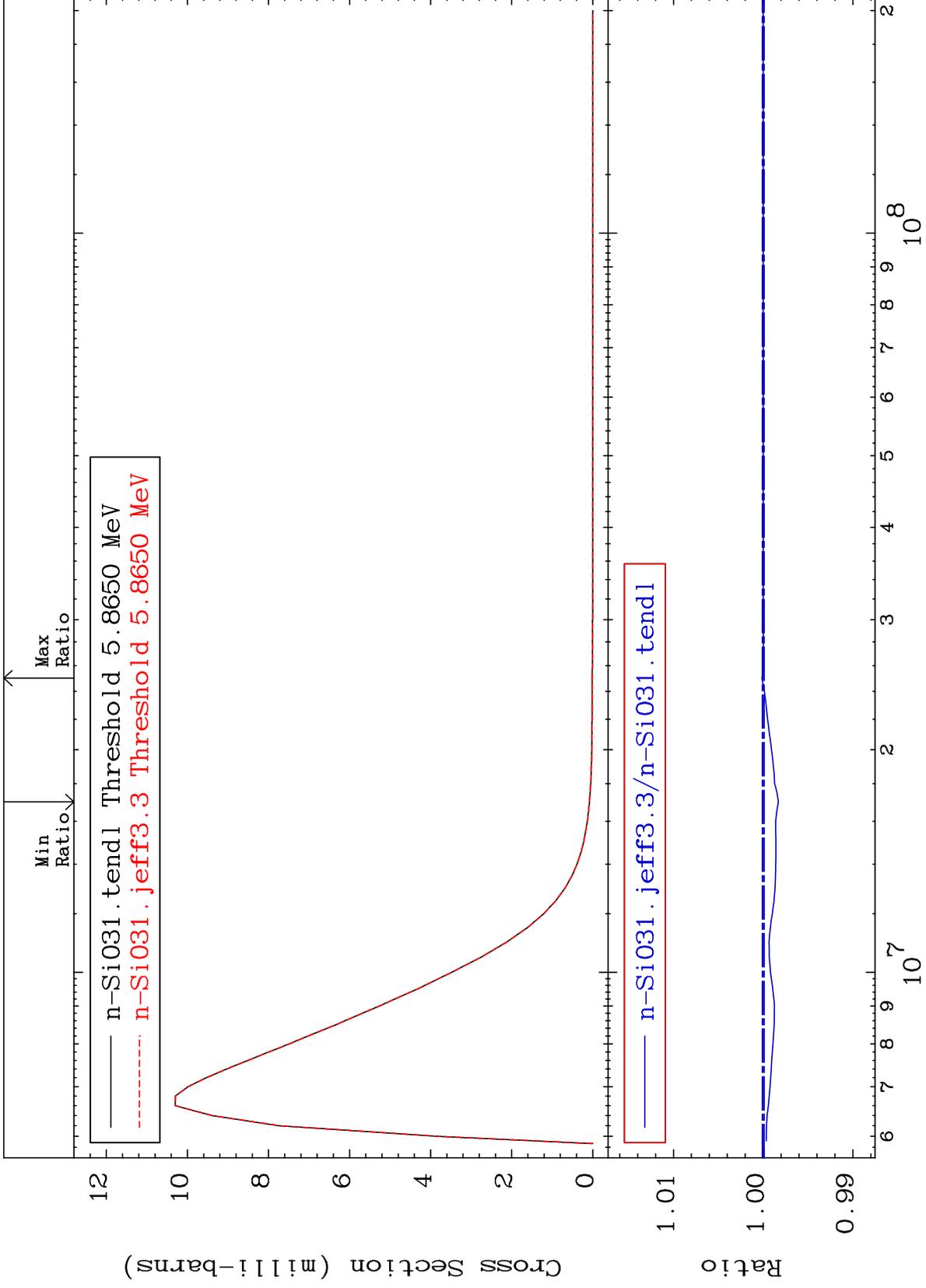
Incident Energy (eV)

14-Si-31

MAT 1434

MT= 71 (n,n') Level  
Cross Section

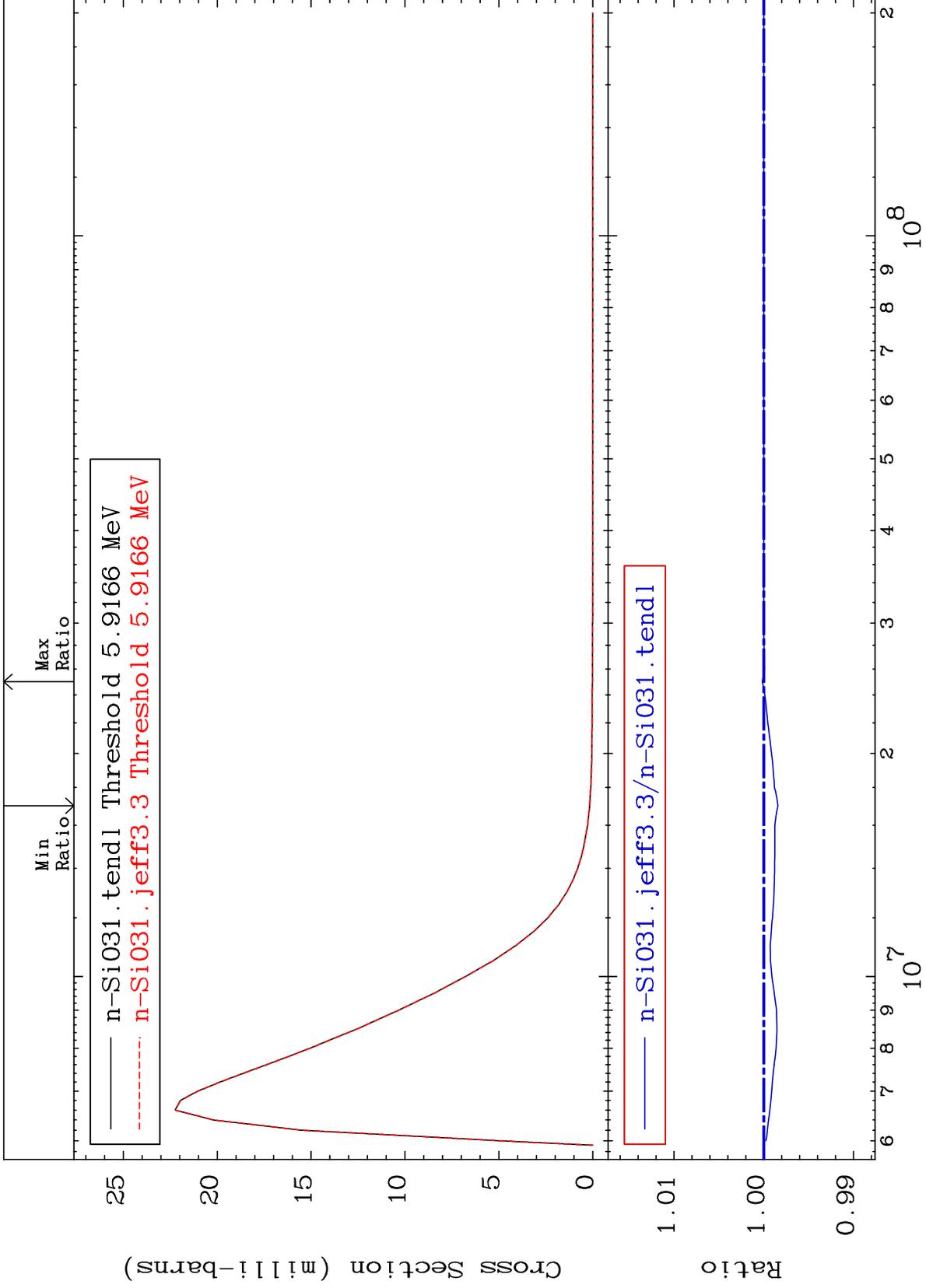
14-Si-31  
-0.170 To 0.014 %



MAT 1434

MT= 72 (n,n') Level  
Cross Section

14-Si-31  
-0.158 To 0.015 %



37

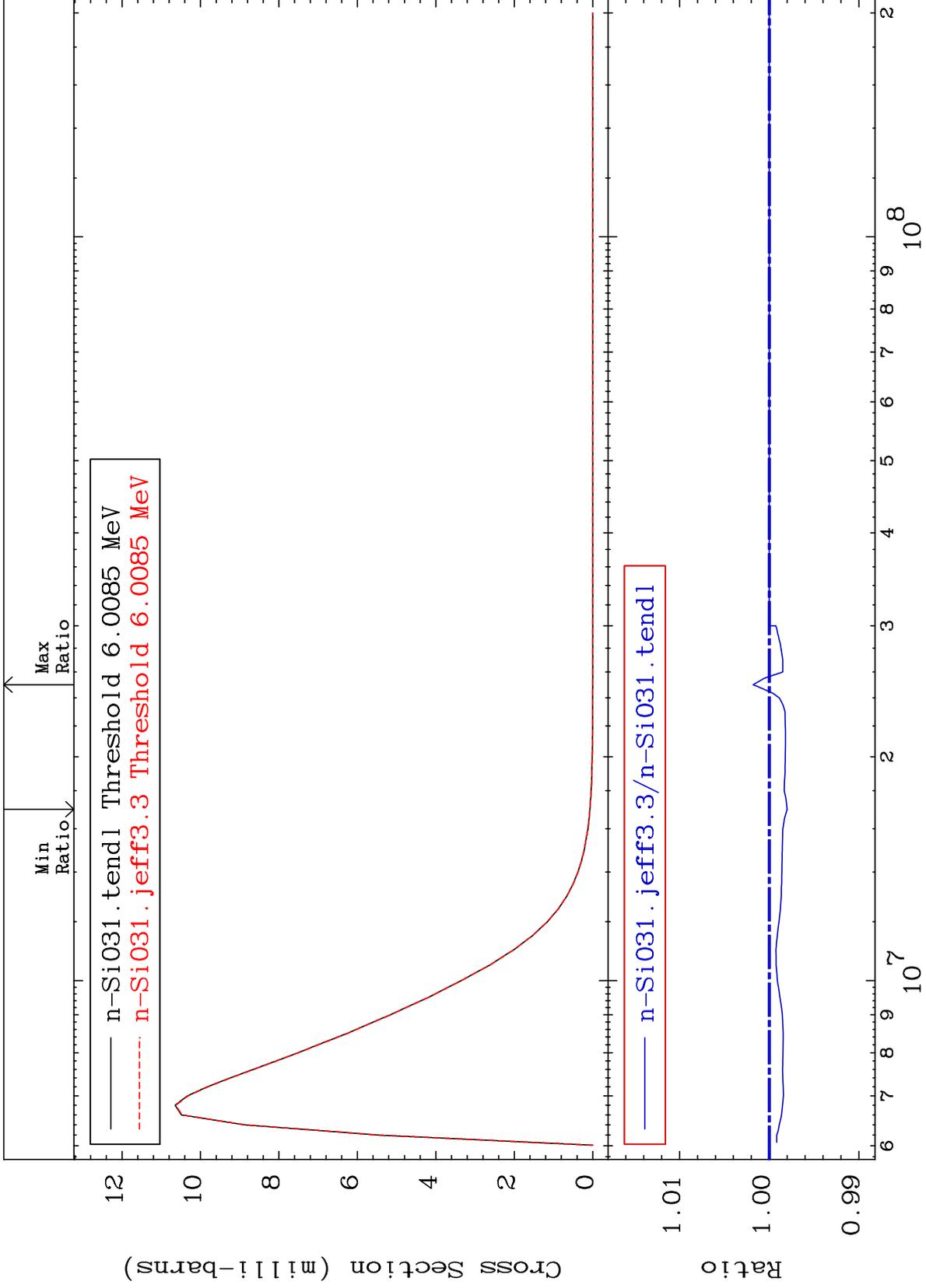
Incident Energy (eV)

14-Si-31

MAT 1434

MT= 73 (n,n') Level  
Cross Section

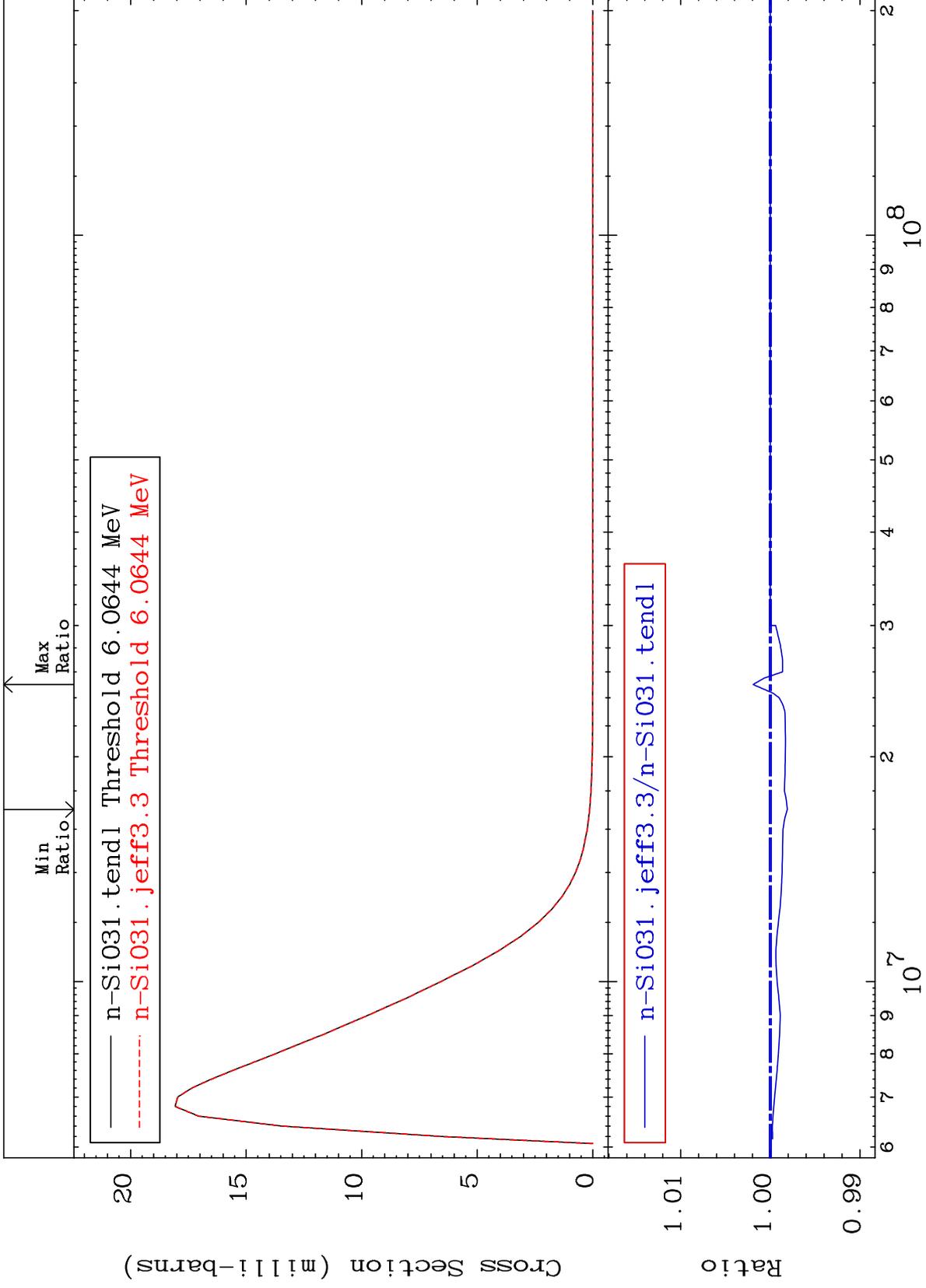
14-Si-31  
-0.199 To 0.179 %



MAT 1434

MT= 74 (n,n') Level  
Cross Section

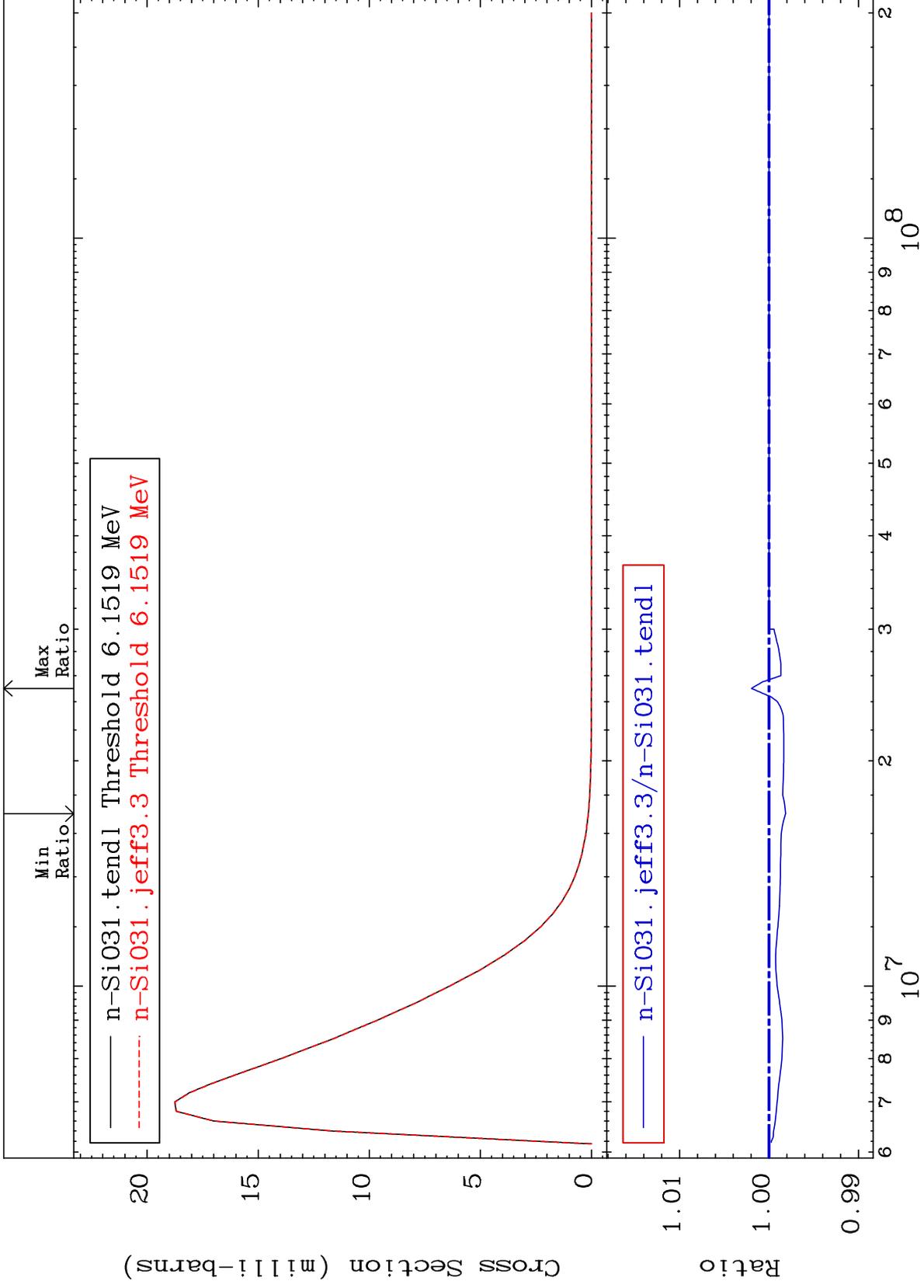
14-Si-31  
-0.189 To 0.193 %



MAT 1434

MT= 75 (n,n') Level  
Cross Section

14-Si-31  
-0.185 To 0.197 %



40

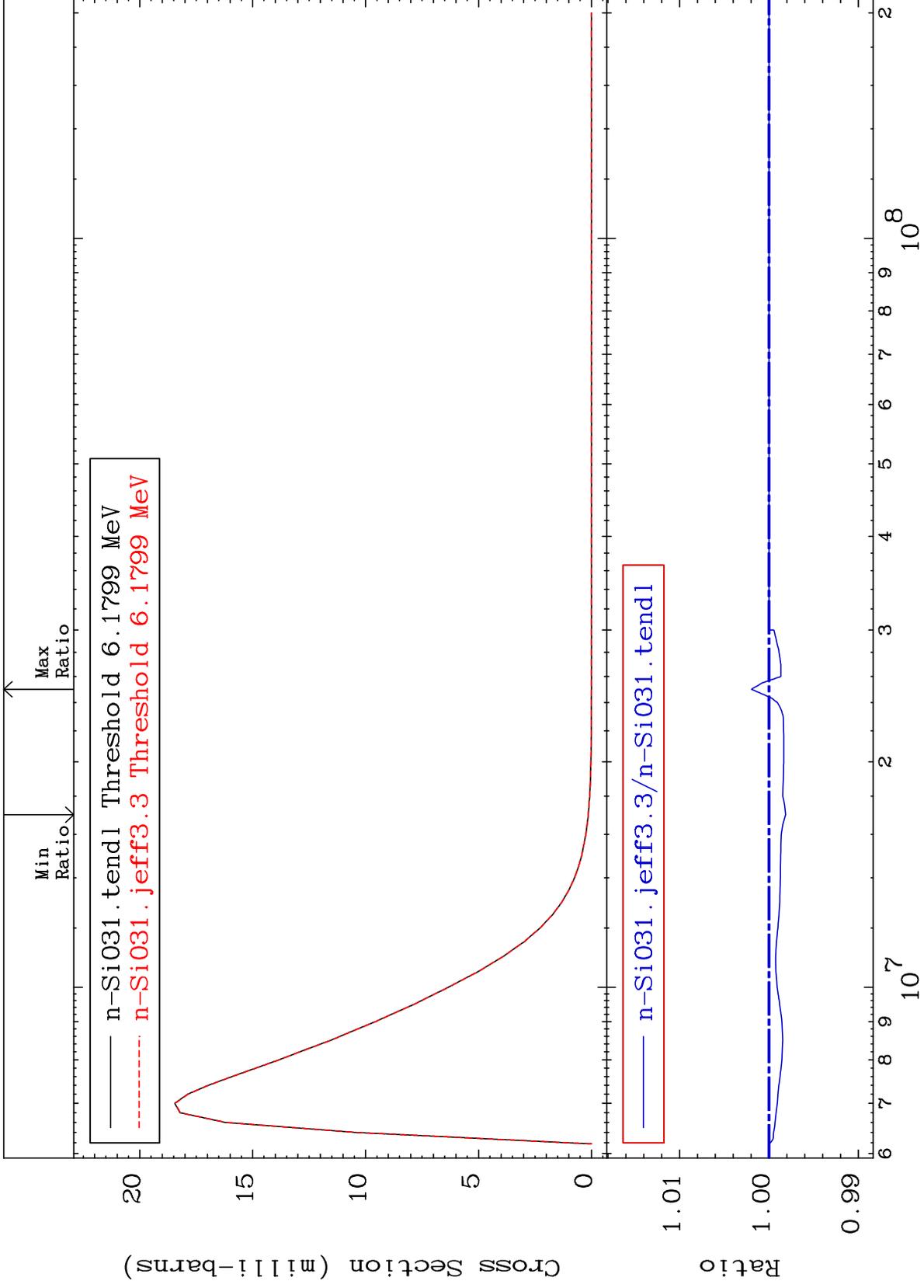
Incident Energy (eV)

14-Si-31

MAT 1434

MT= 76 (n,n') Level  
Cross Section

14-Si-31  
-0.186 To 0.197 %



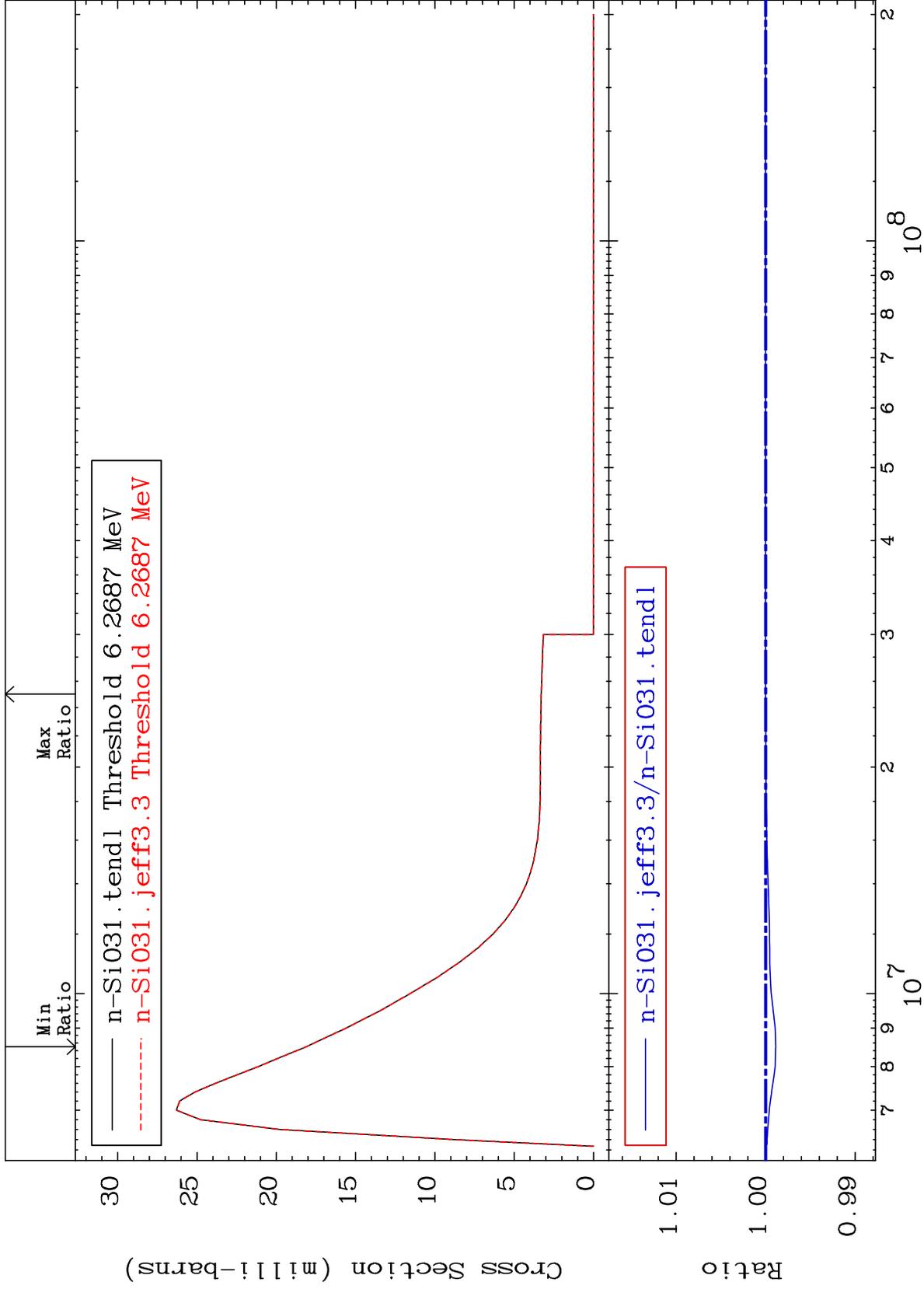
MAT 1434

MT= 77 (n,n') Level

14-Si-31

-0.113 To 0.000 %

Cross Section



42

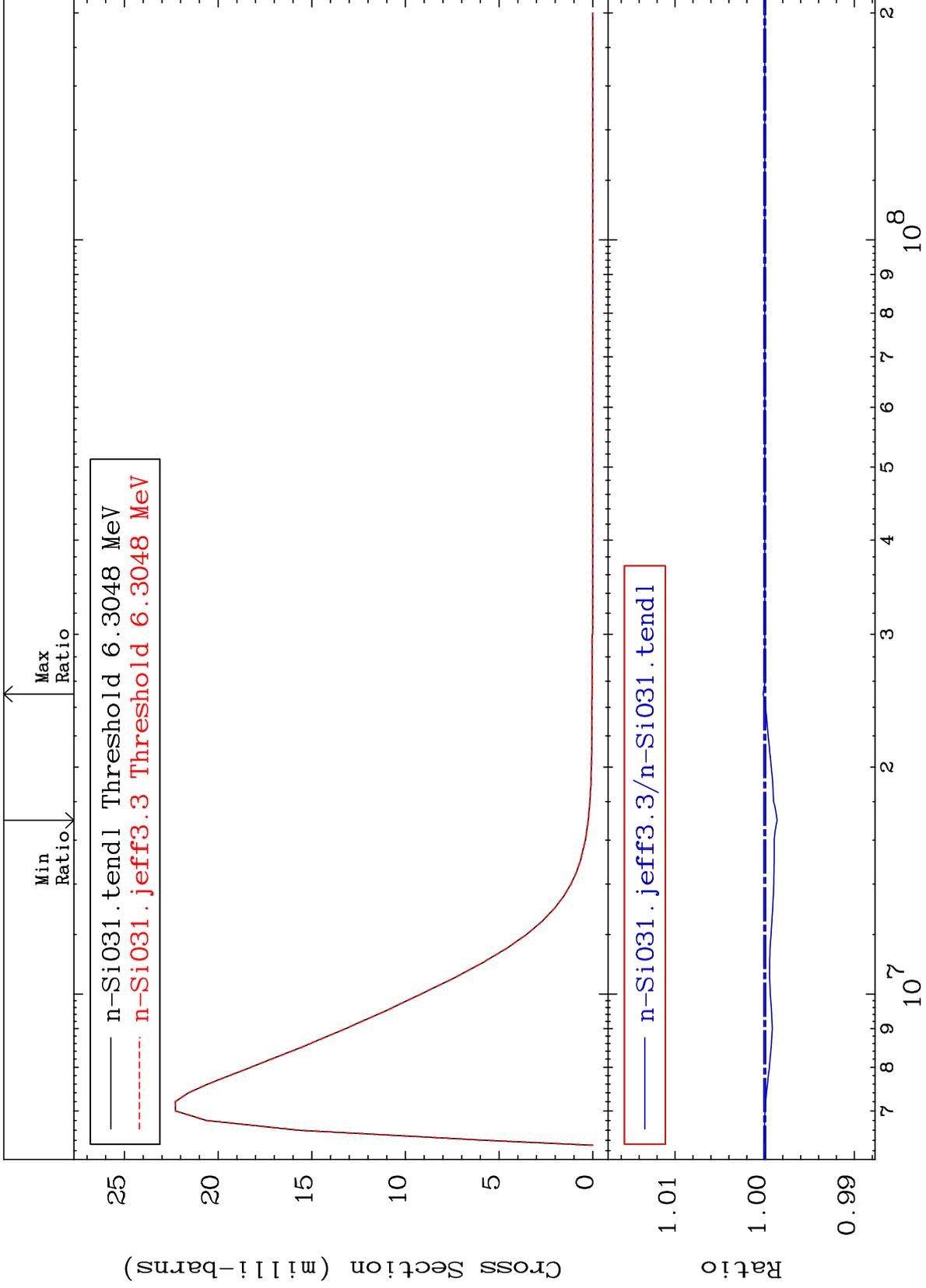
Incident Energy (eV)

14-Si-31

MAT 1434

MT= 78 (n,n') Level  
Cross Section

14-Si-31  
-0.138 To 0.017 %



43

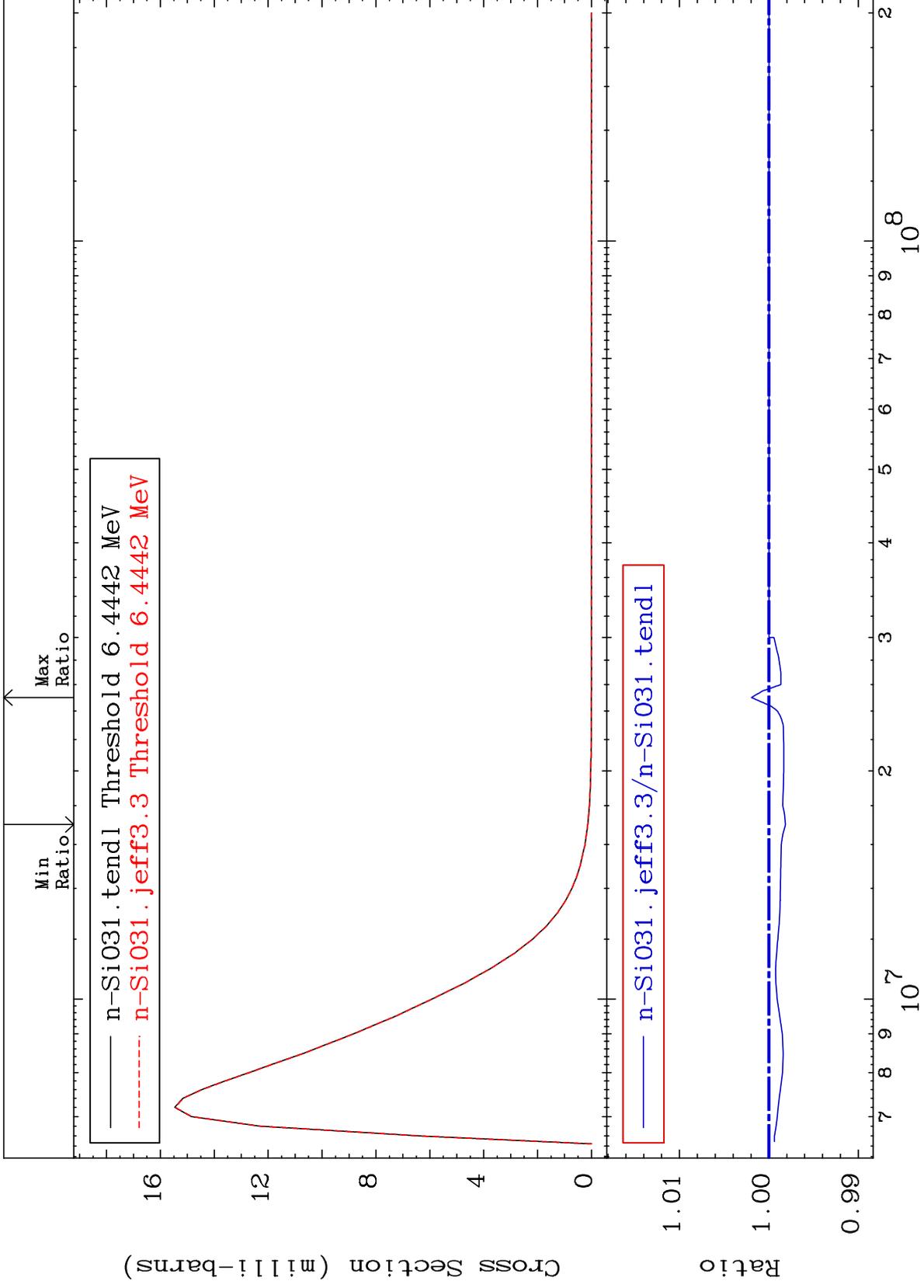
Incident Energy (eV)

14-Si-31

MAT 1434

MT= 79 (n,n') Level  
Cross Section

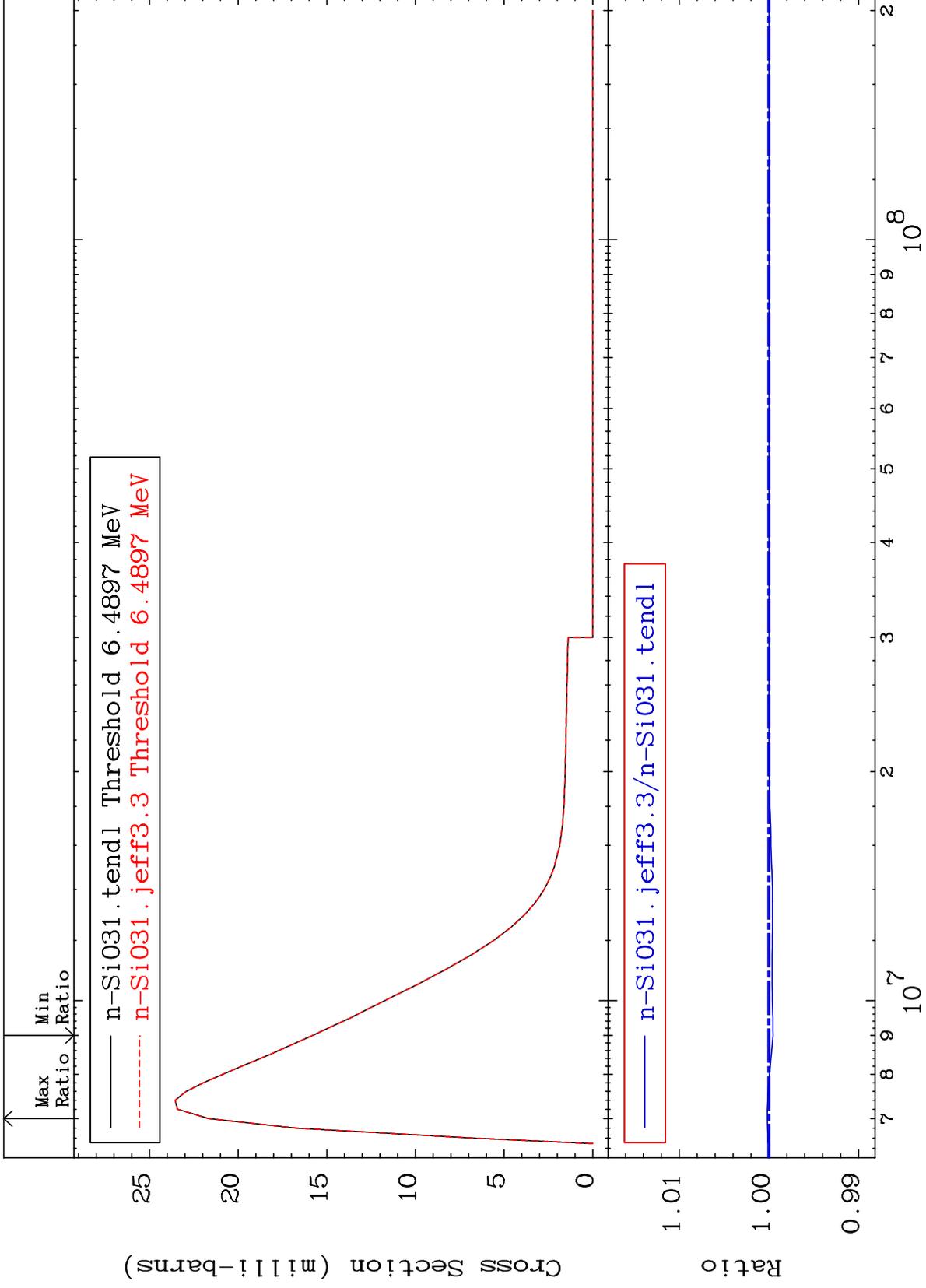
14-Si-31  
-0.186 To 0.195 %



MAT 1434

MT= 80 (n,n') Level  
Cross Section

14-Si-31  
-0.046 To 0.018 %



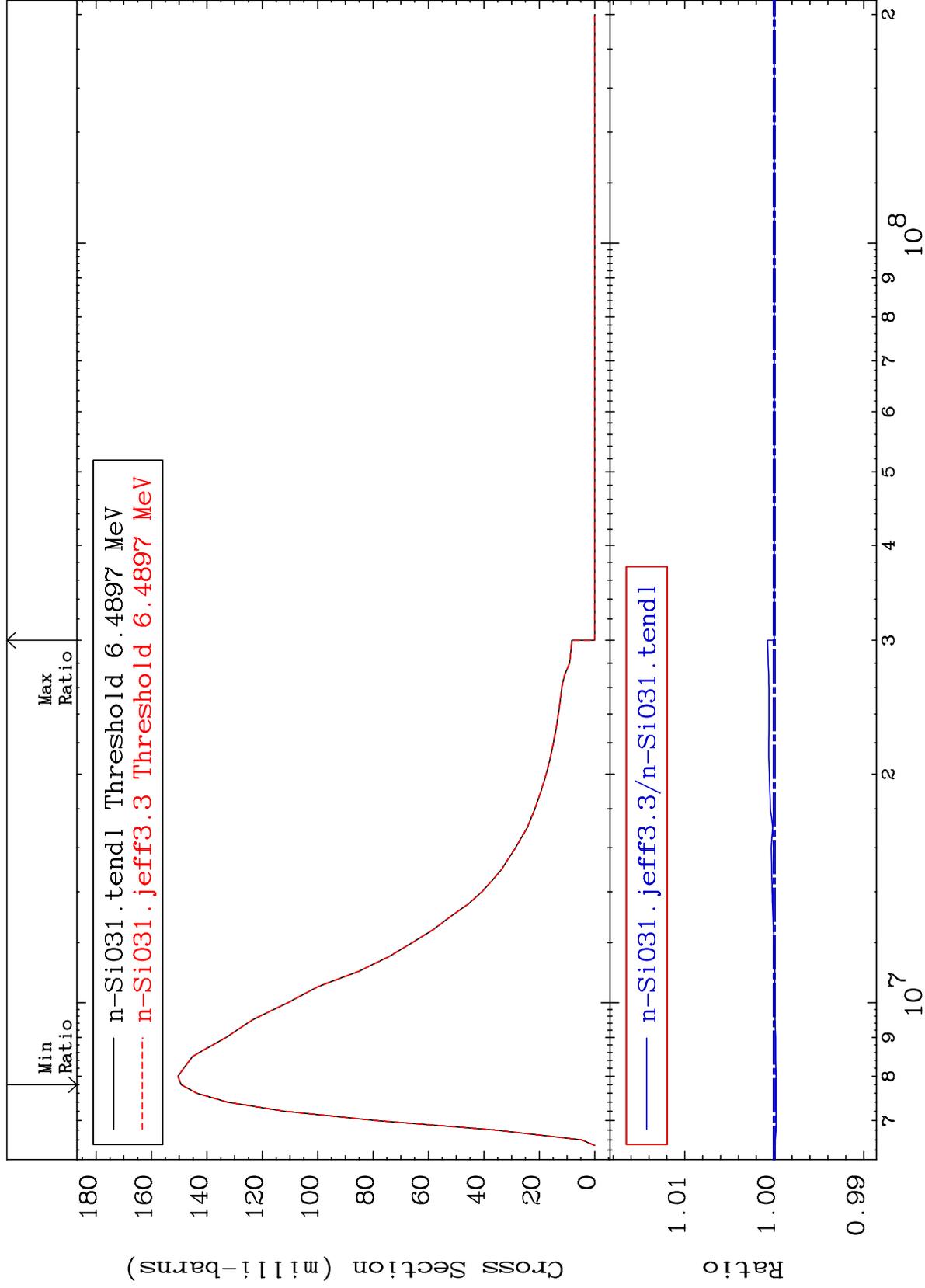
45

14-Si-31

MAT 1434

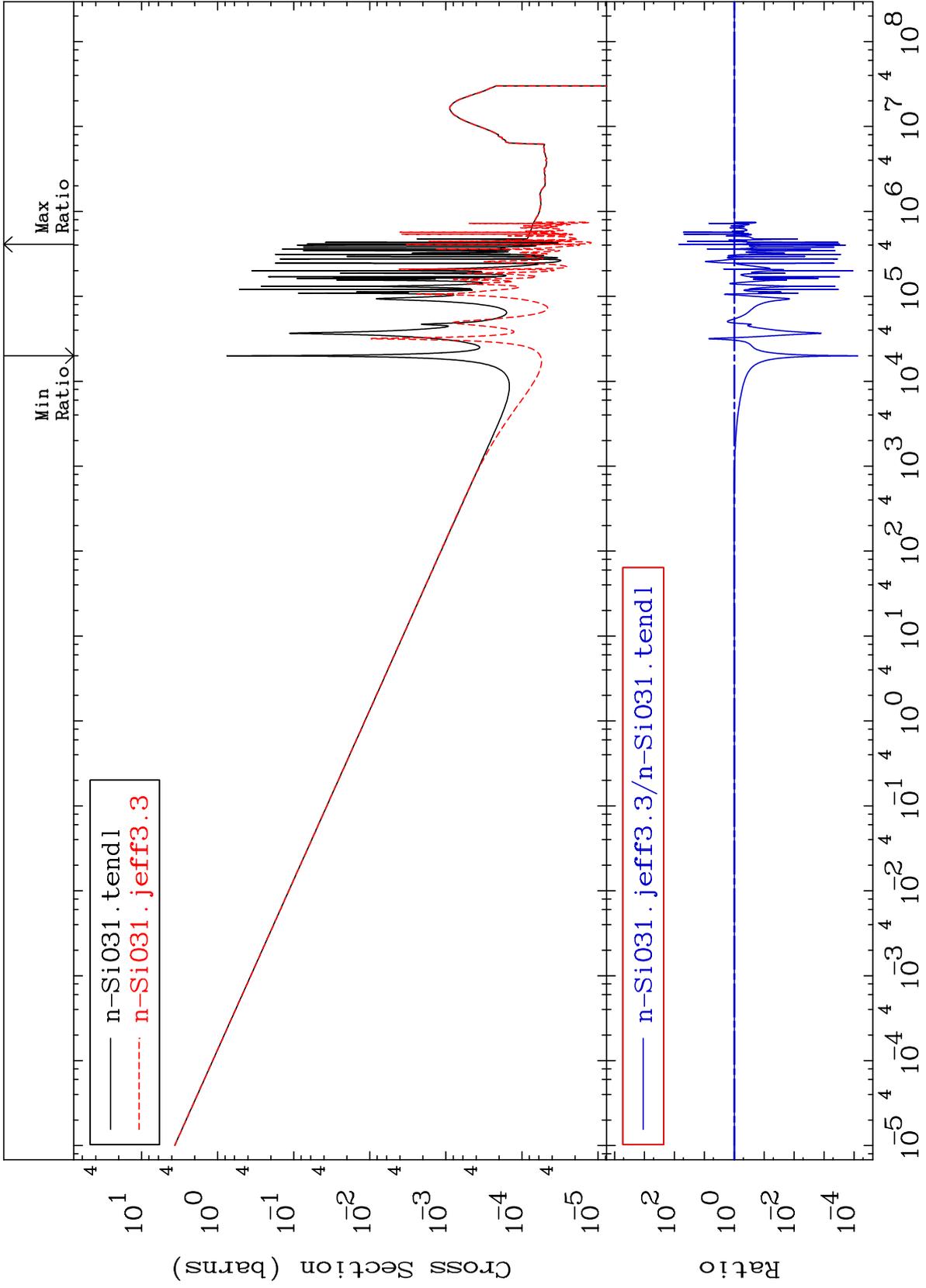
(n, n') Continuum  
Cross Section

14-Si-31  
-0.020 To 0.075 %



MAT 1434

(n,  $\gamma$ )  
Cross Section  
14-Si-31  
-99.99 To 7029. %



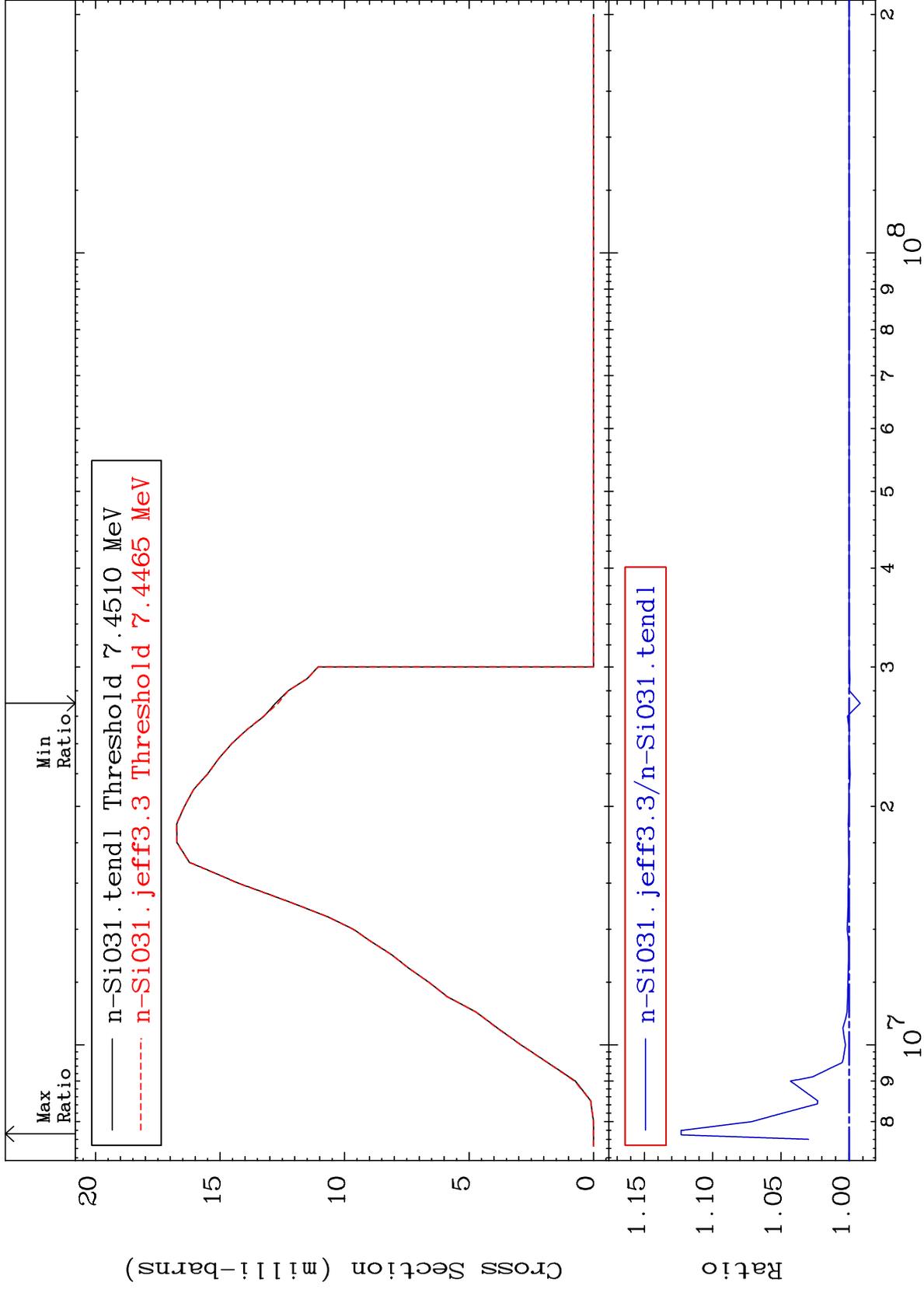
MAT 1434

(n,p)

<sup>14</sup>Si-31

Cross Section

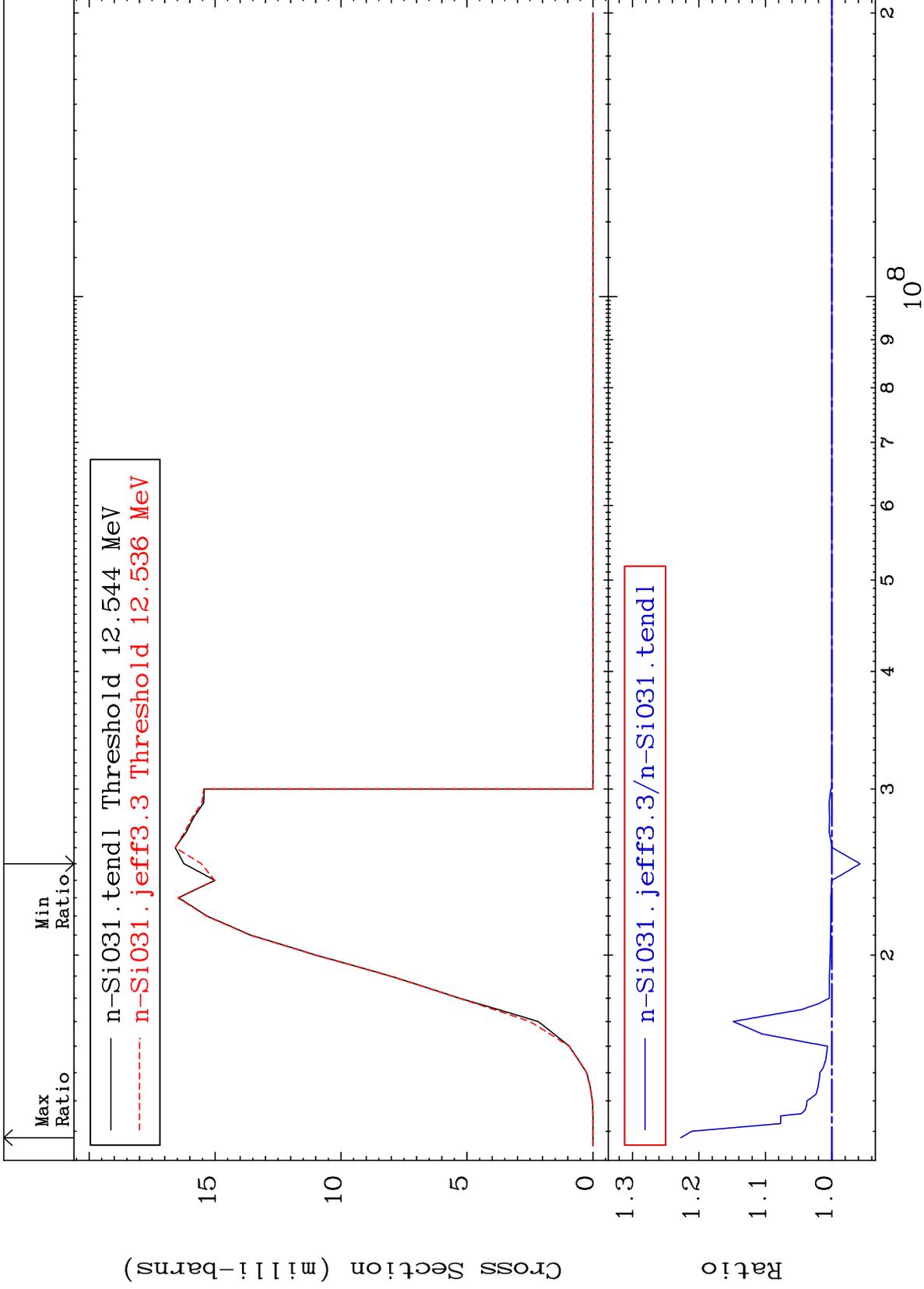
-0.803 To 12.31 %



48

Incident Energy (eV)

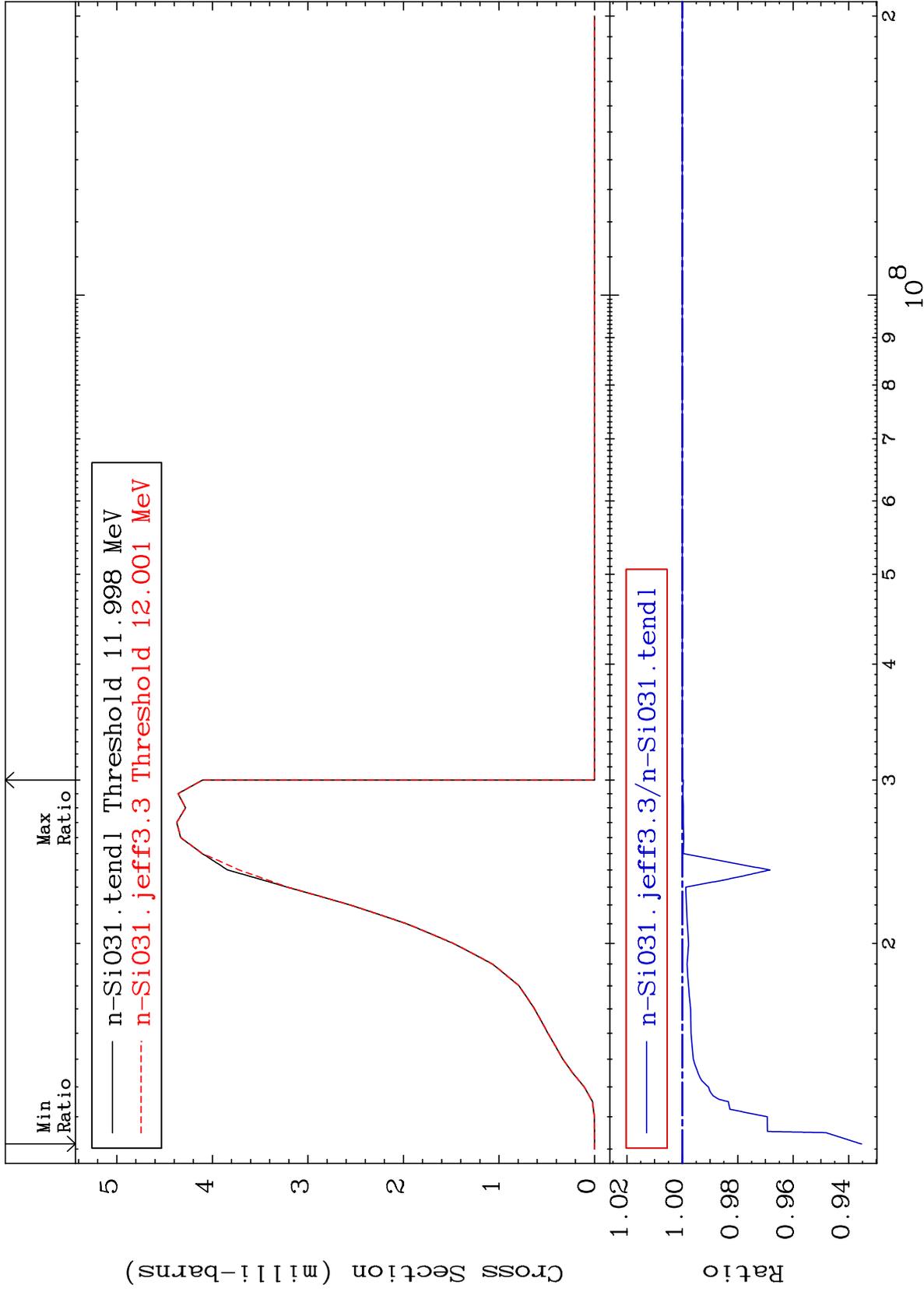
<sup>14</sup>Si-31



MAT 1434

14-Si-31

(n, t)  
Cross Section  
-6.470 To 0.000 %



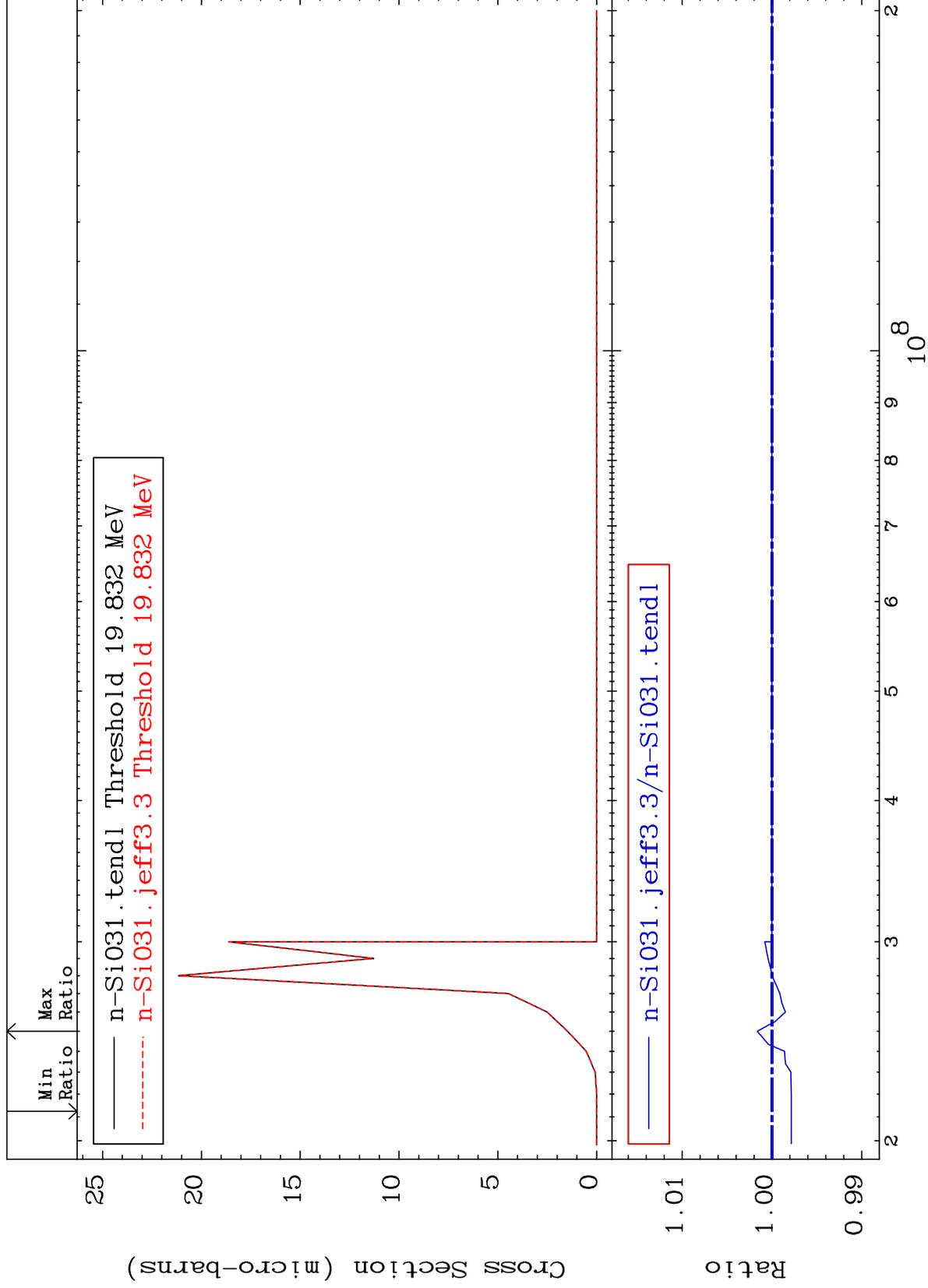
MAT 1434

(n, He-3)

14-Si-31

Cross Section

-0.216 To 0.163 %



51

Incident Energy (eV)

14-Si-31

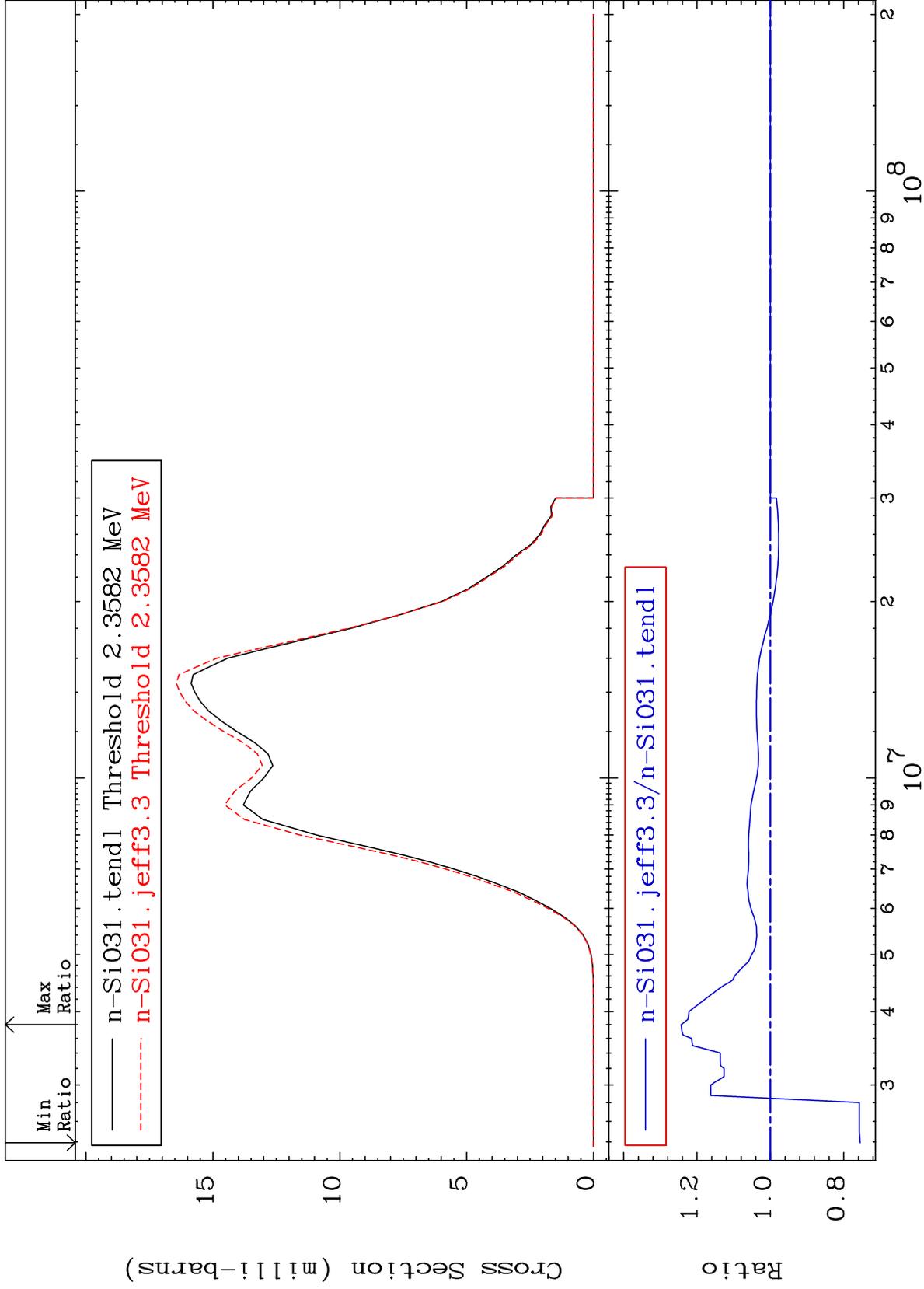
MAT 1434

(n,  $\alpha$ )

14-Si-31

Cross Section

-24.47 To 24.32 %



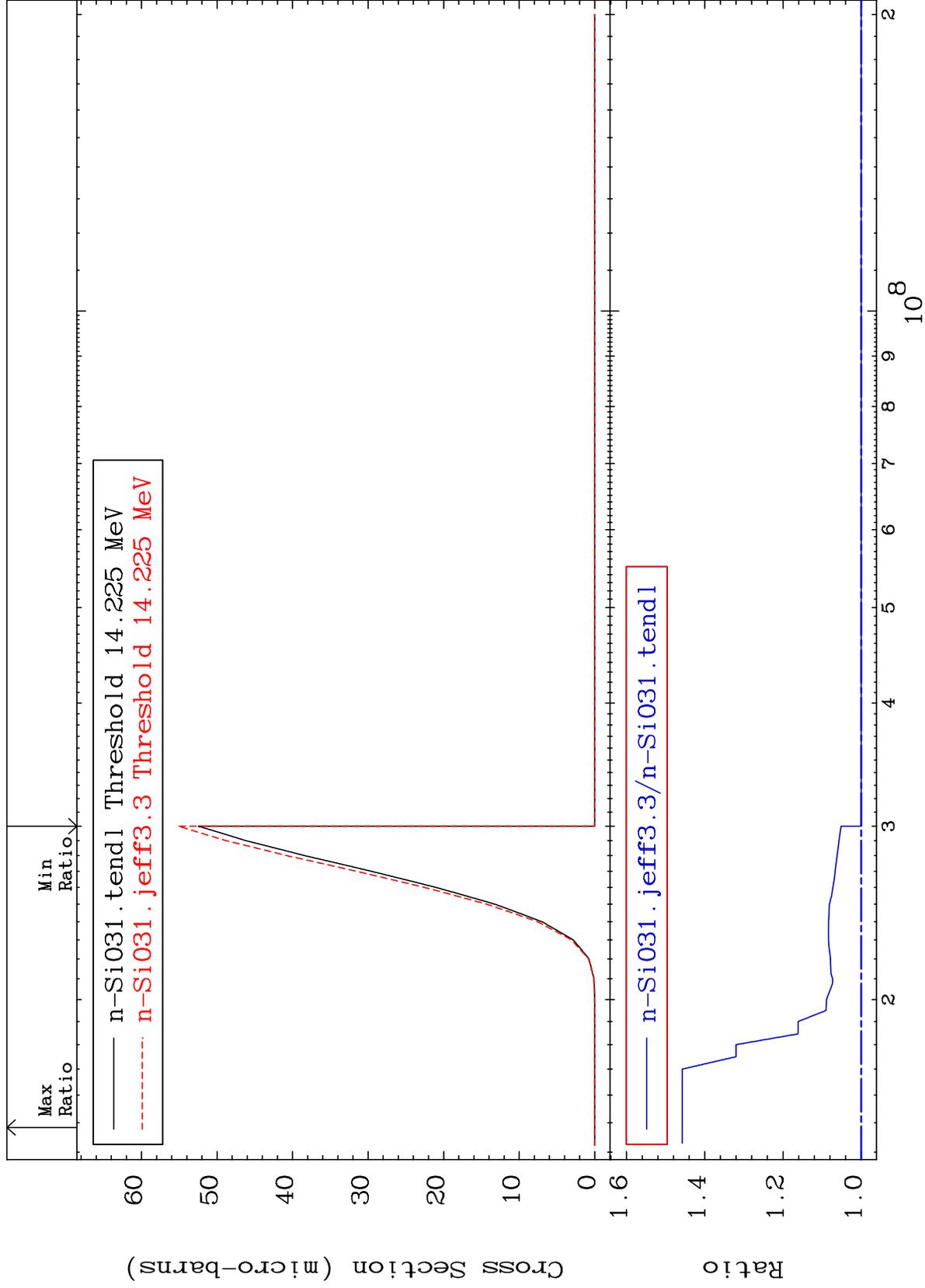
MAT 1434

(n,2α)

14-Si-31

Cross Section

0.000 To 45.74 %



53

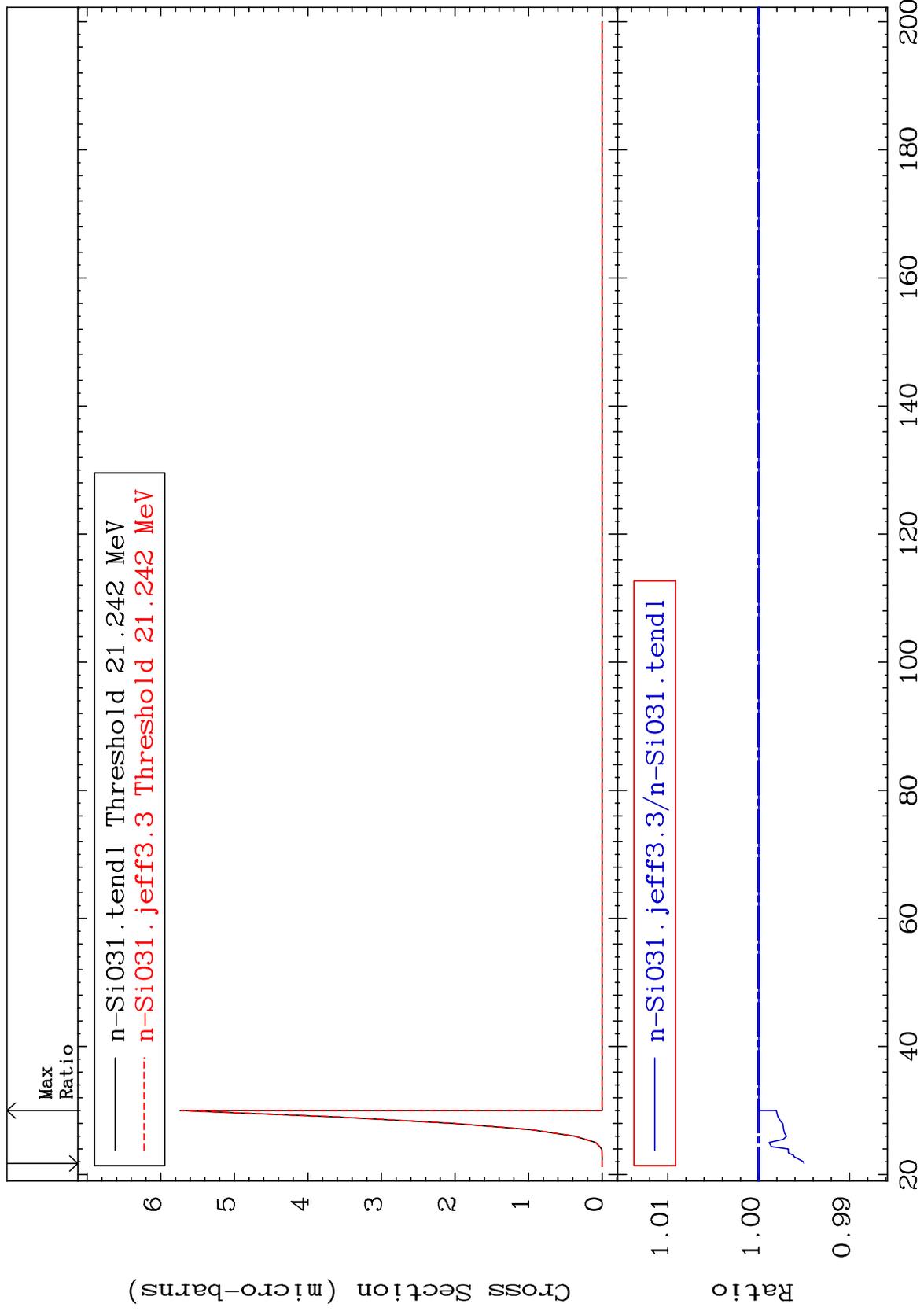
14-Si-31

14-Si-31

MAT 1434

(n,2p)  
Cross Section

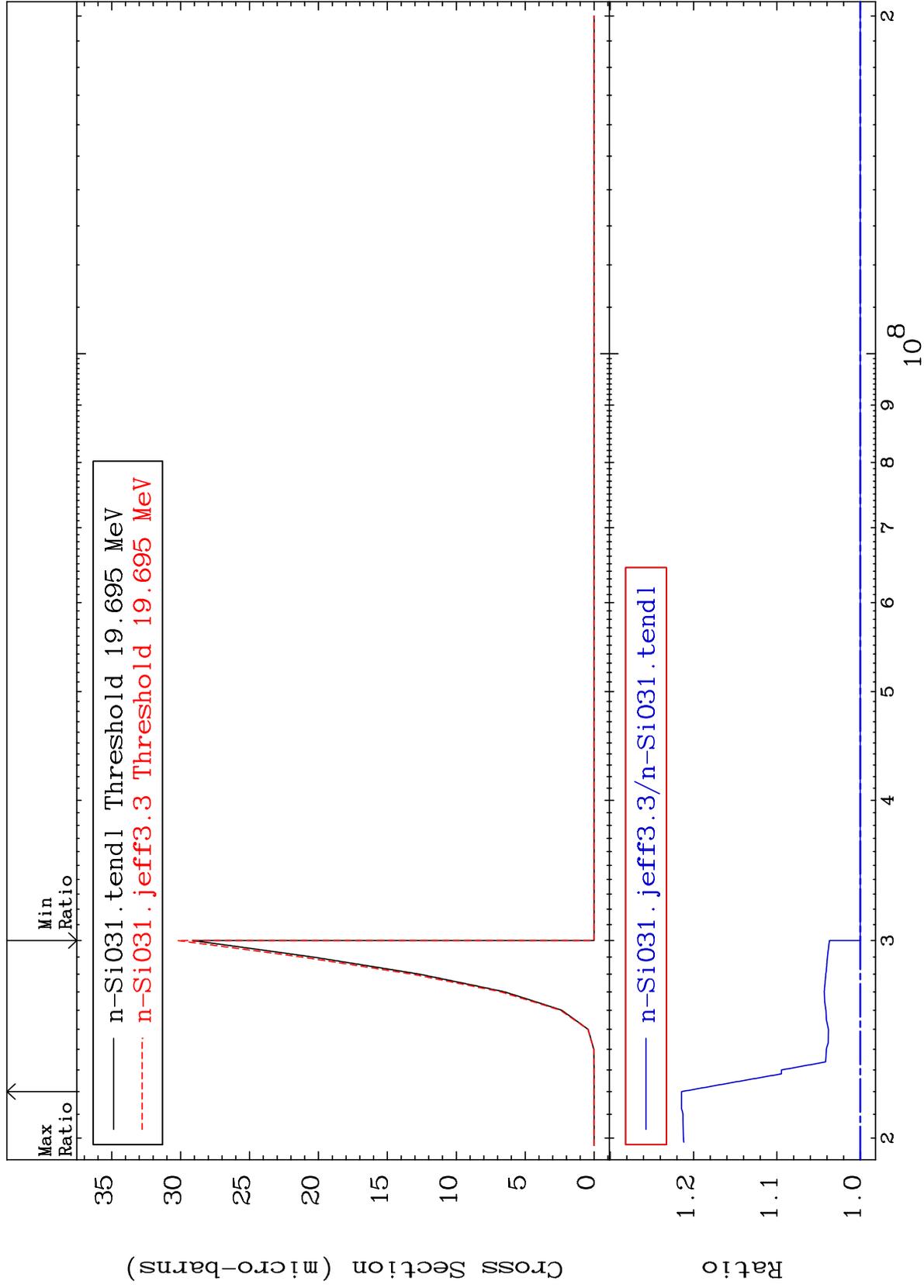
14-Si-31  
-0.501 To 0.000 %



MAT 1434

(n,p)  $\alpha$   
Cross Section

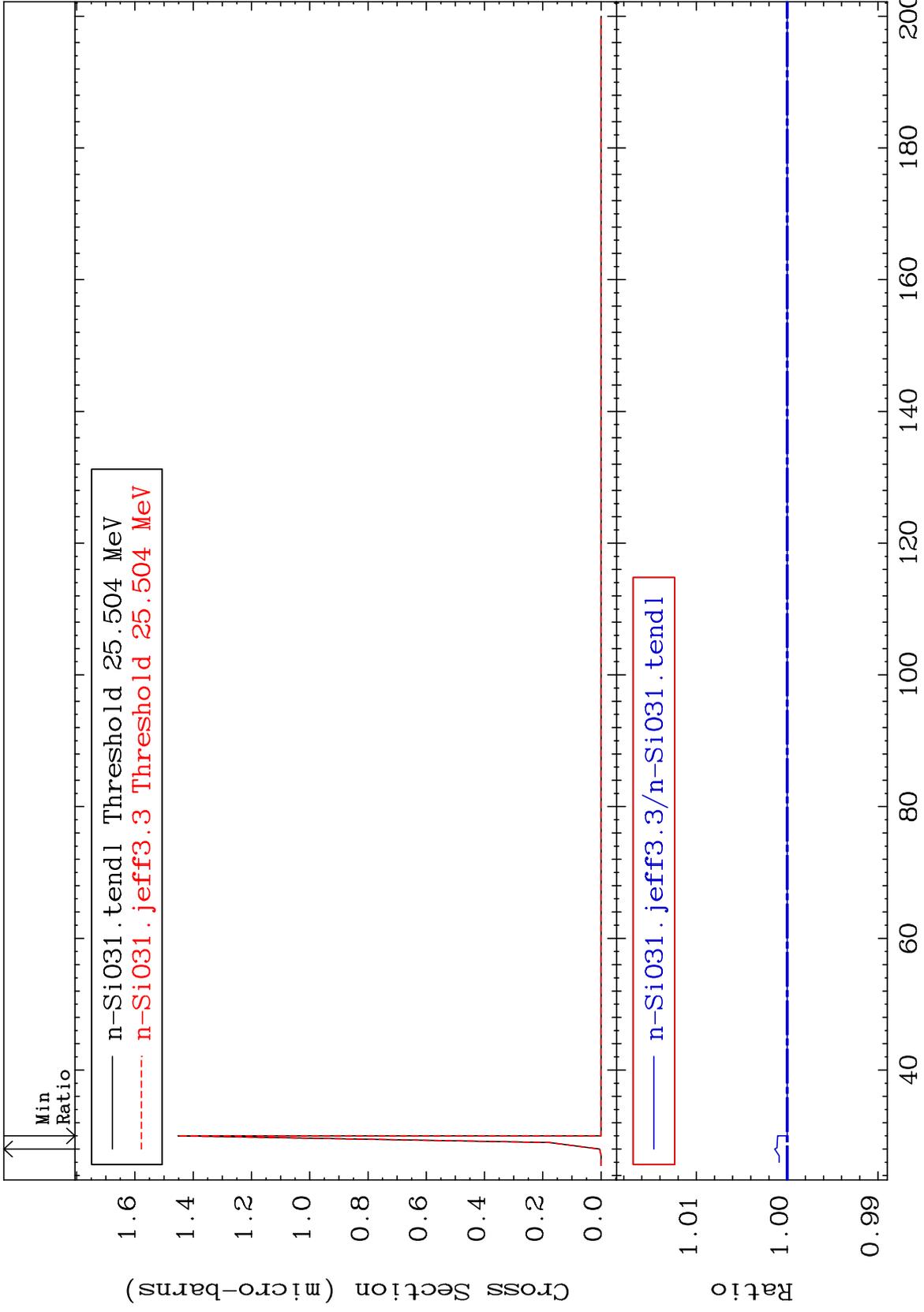
14-Si-31  
To 21.44 %  
0.000



MAT 1434

(n,p) d  
Cross Section

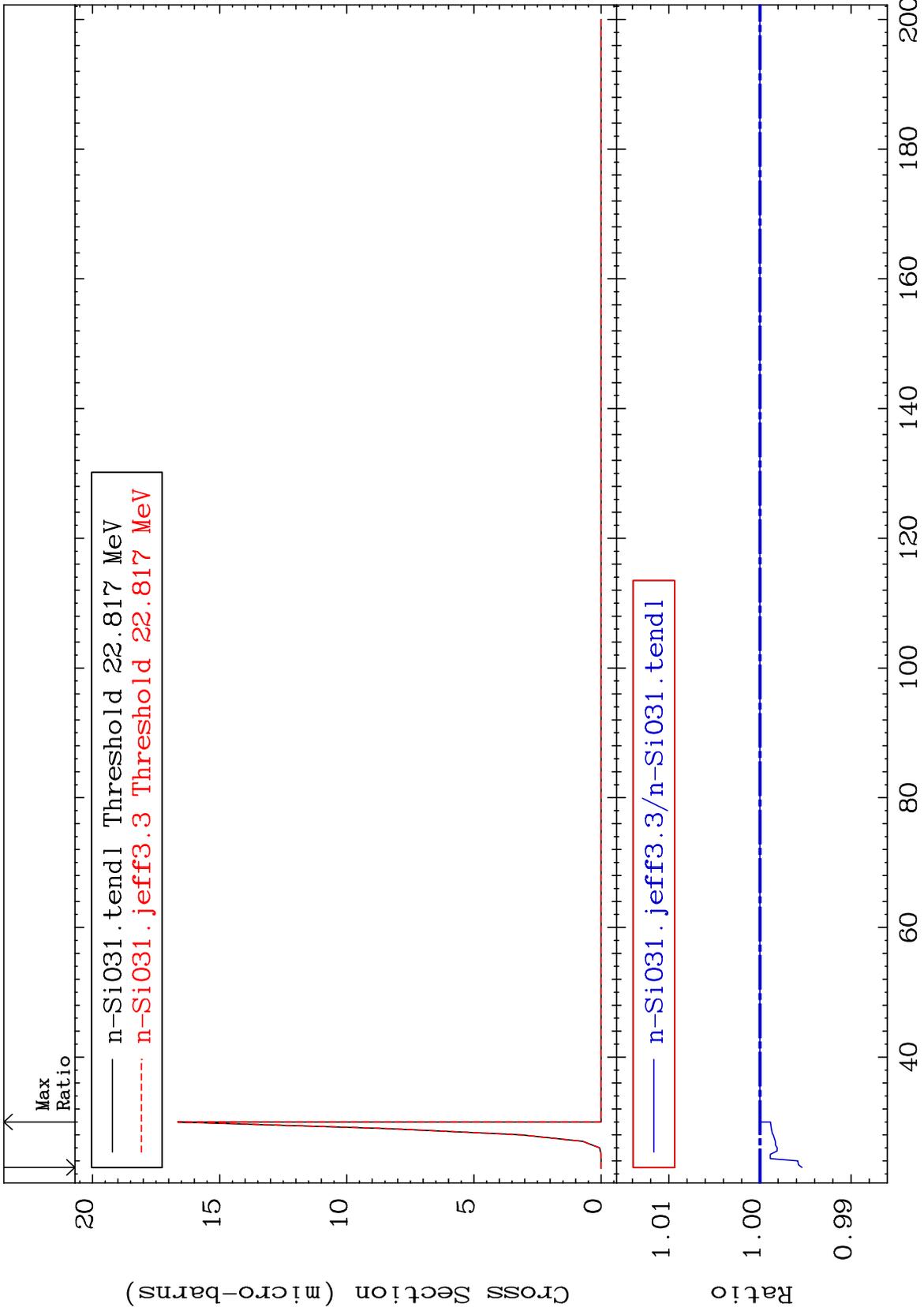
14-Si-31  
0.000 To 0.137 %



MAT 1434

(n,p) t  
Cross Section

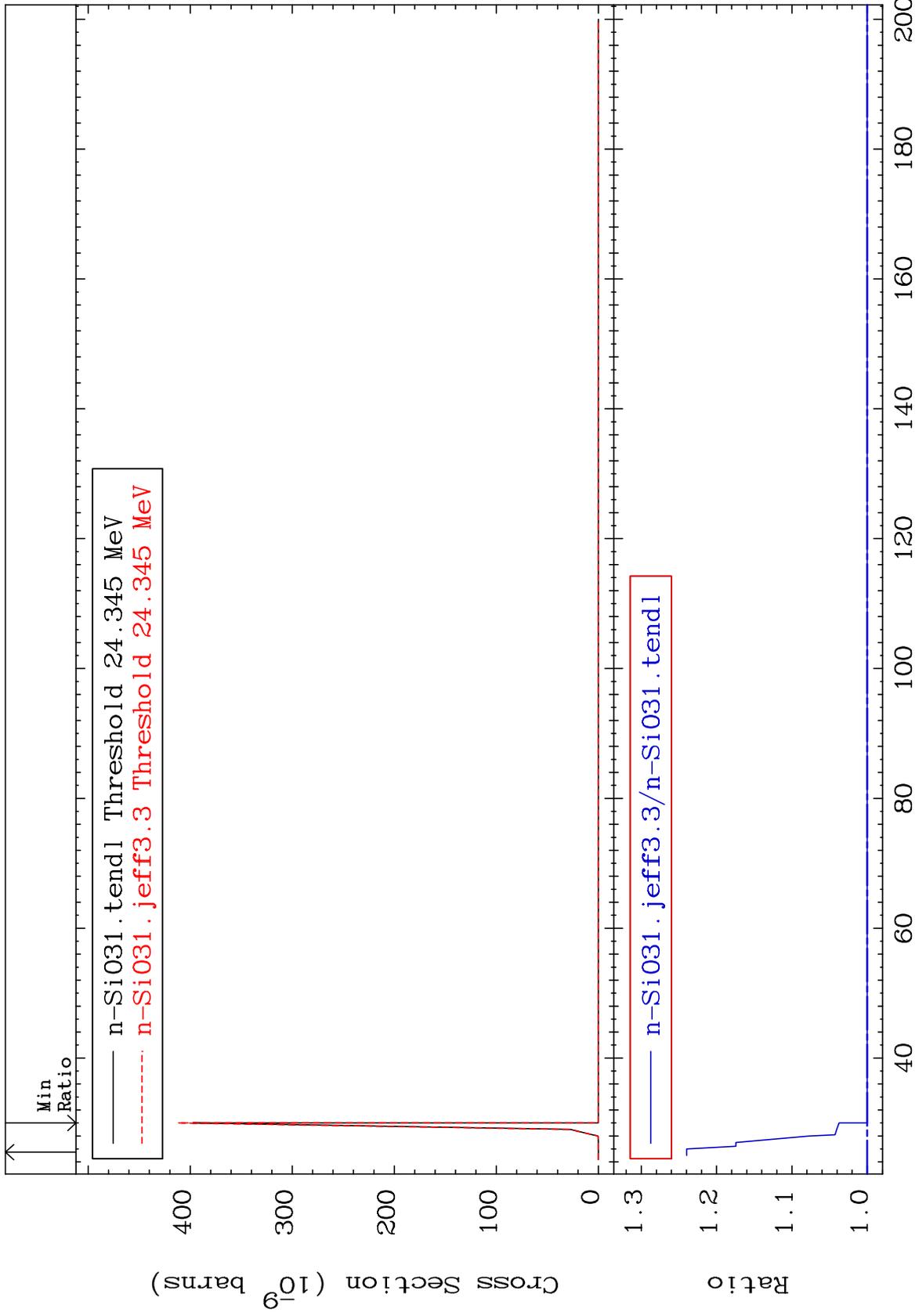
14-Si-31  
-0.461 To 0.000 %



MAT 1434

(n,d)  $\alpha$   
Cross Section

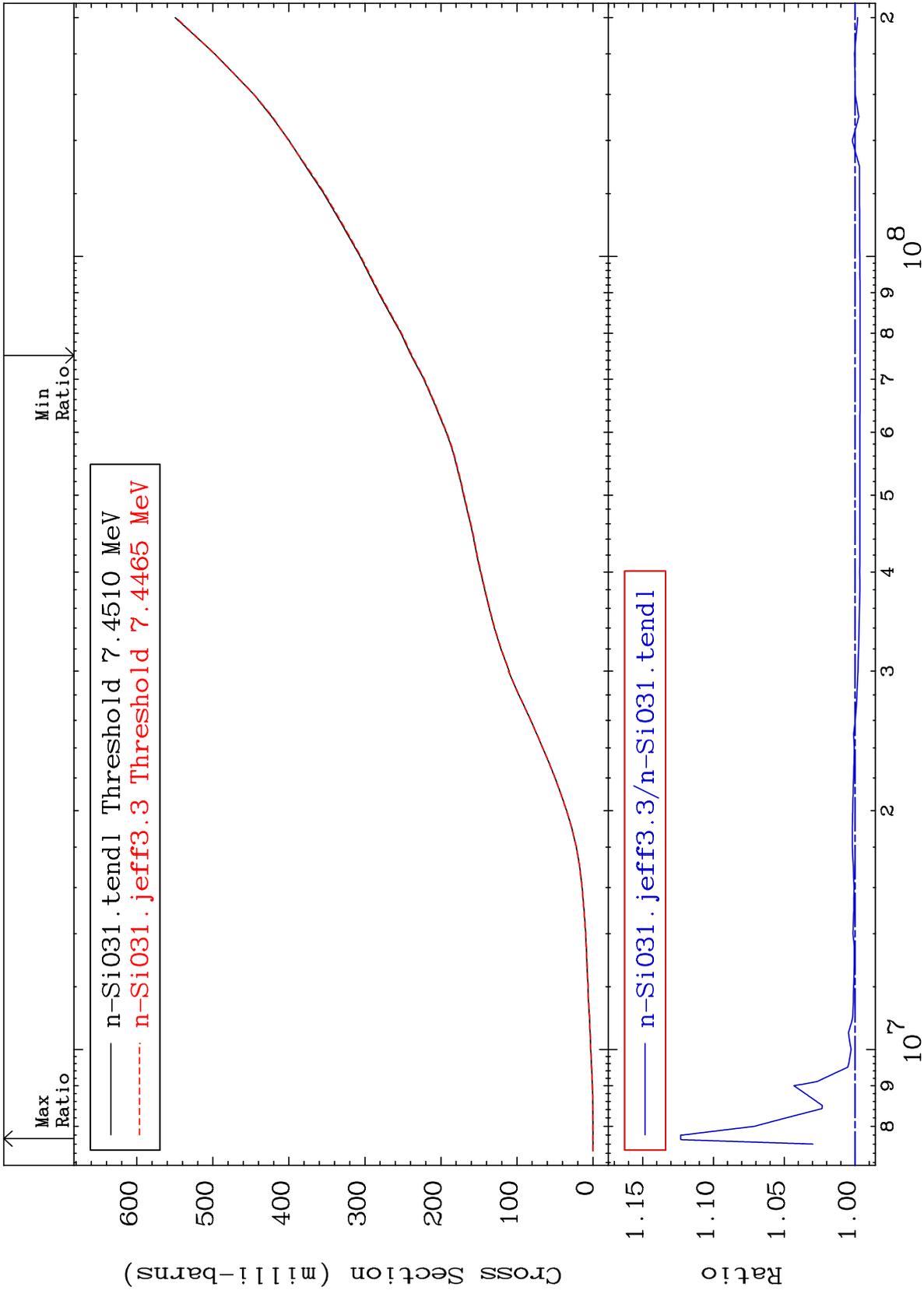
14-Si-31  
To 23.97 %  
0.000



MAT 1434

Hydrogen Production  
Cross Section

14-Si-31  
-0.358 To 12.31 %



59

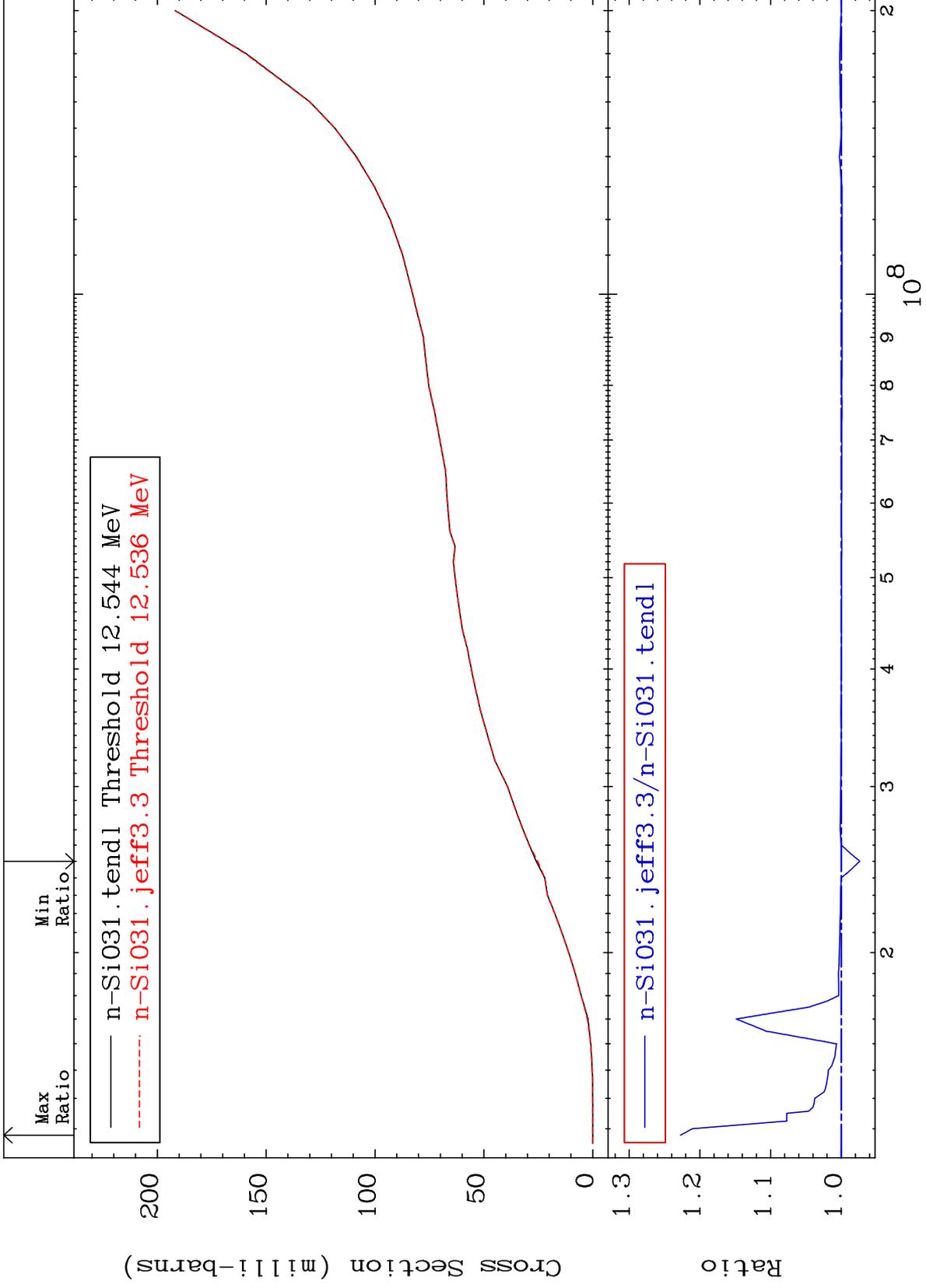
Incident Energy (eV)

14-Si-31

MAT 1434

Deuterium Production  
Cross Section

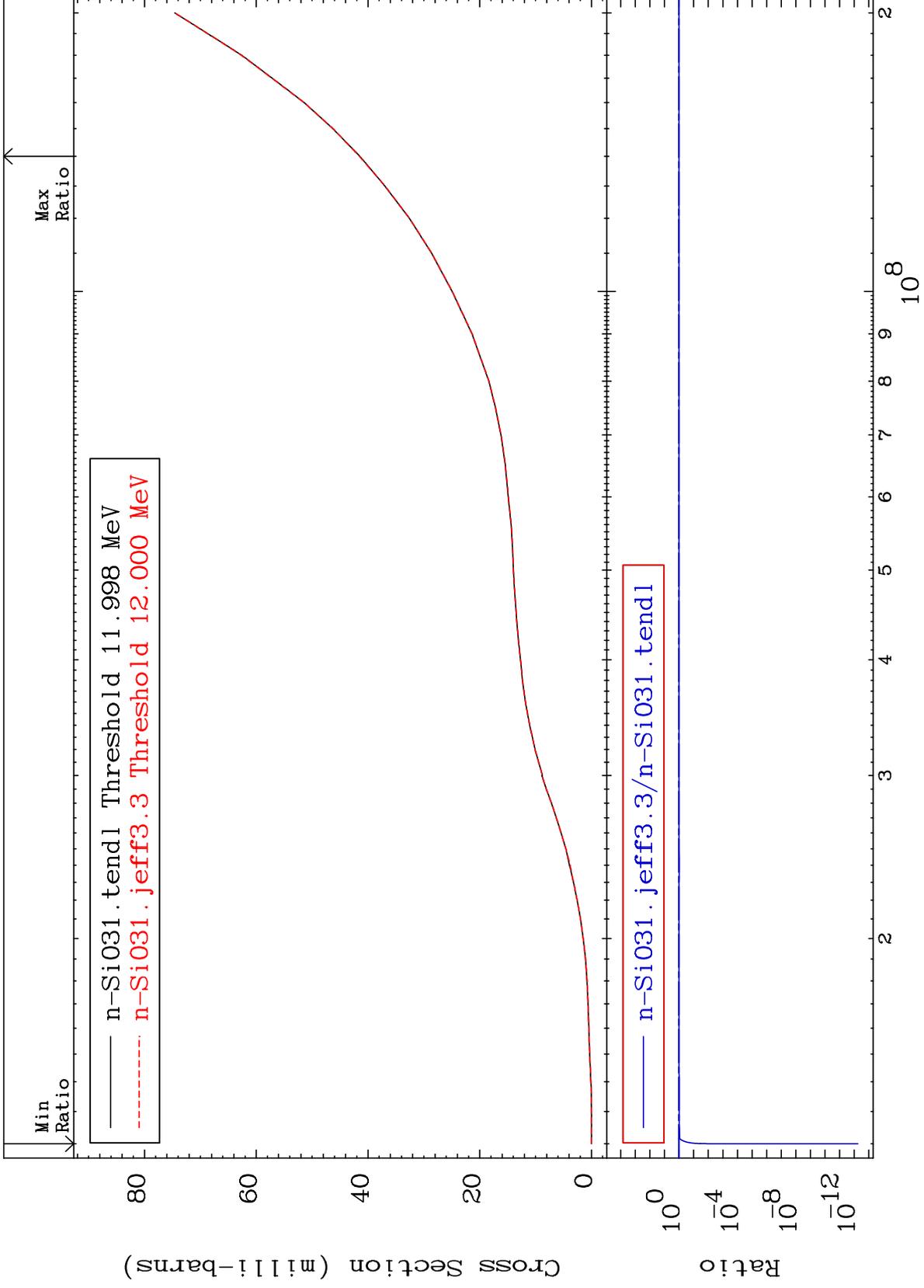
$^{14}\text{Si-31}$   
-2.626 To 22.74 %



60

Incident Energy (eV)

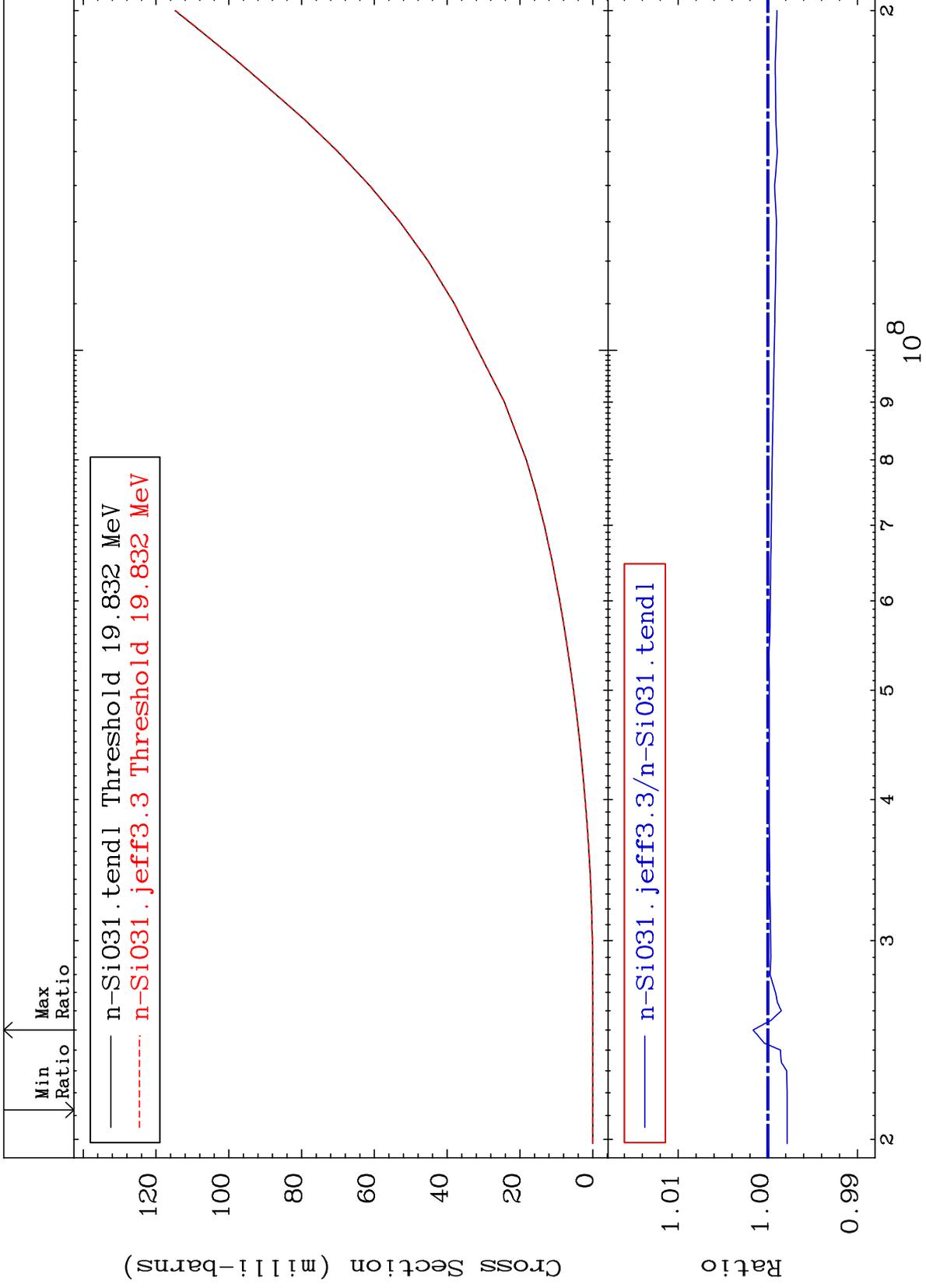
$^{14}\text{Si-31}$



MAT 1434

He-3 Production  
Cross Section

14-Si-31  
-0.216 To 0.163 %



62

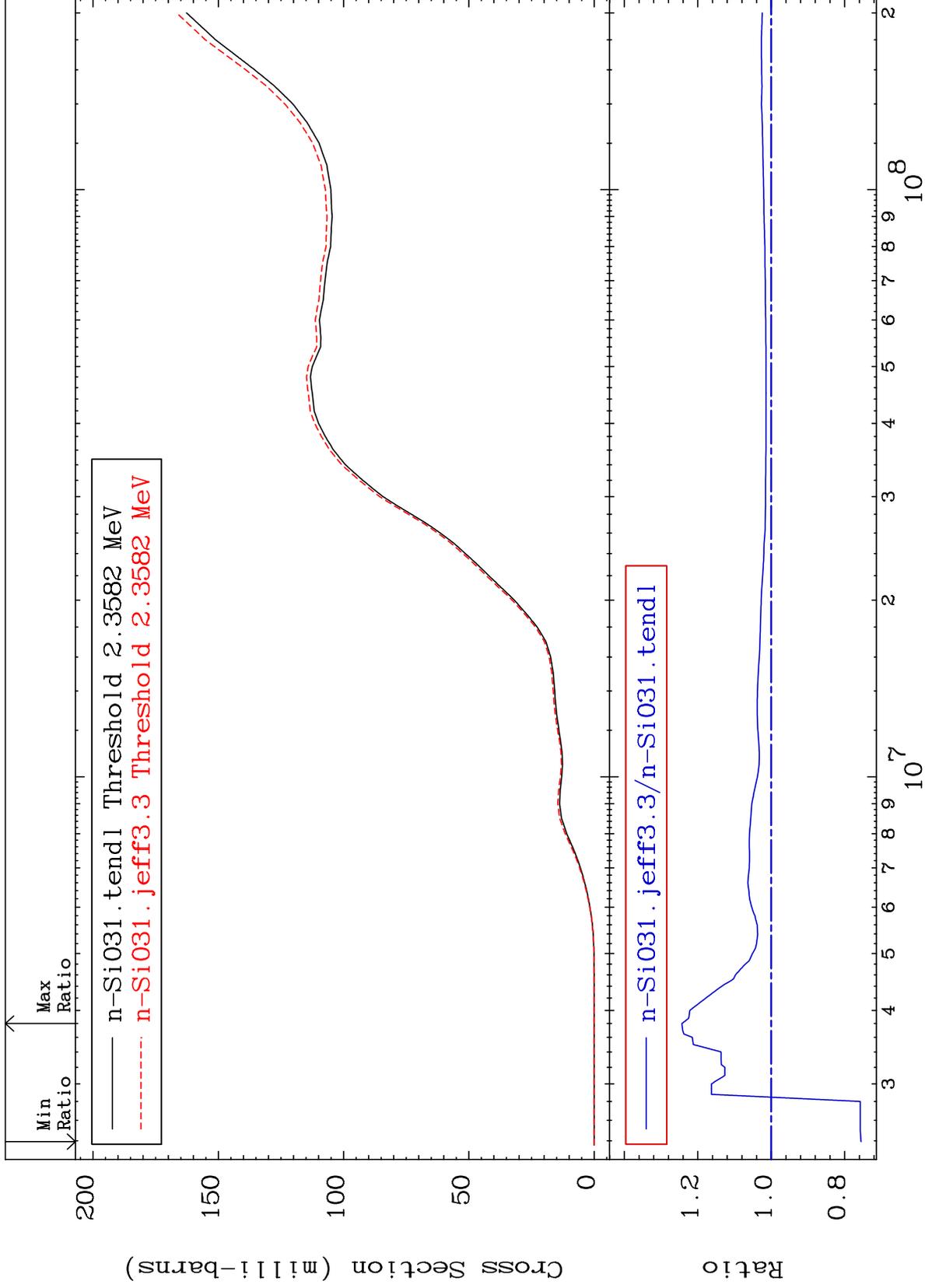
Incident Energy (eV)

14-Si-31

MAT 1434

He-4 Production  
Cross Section

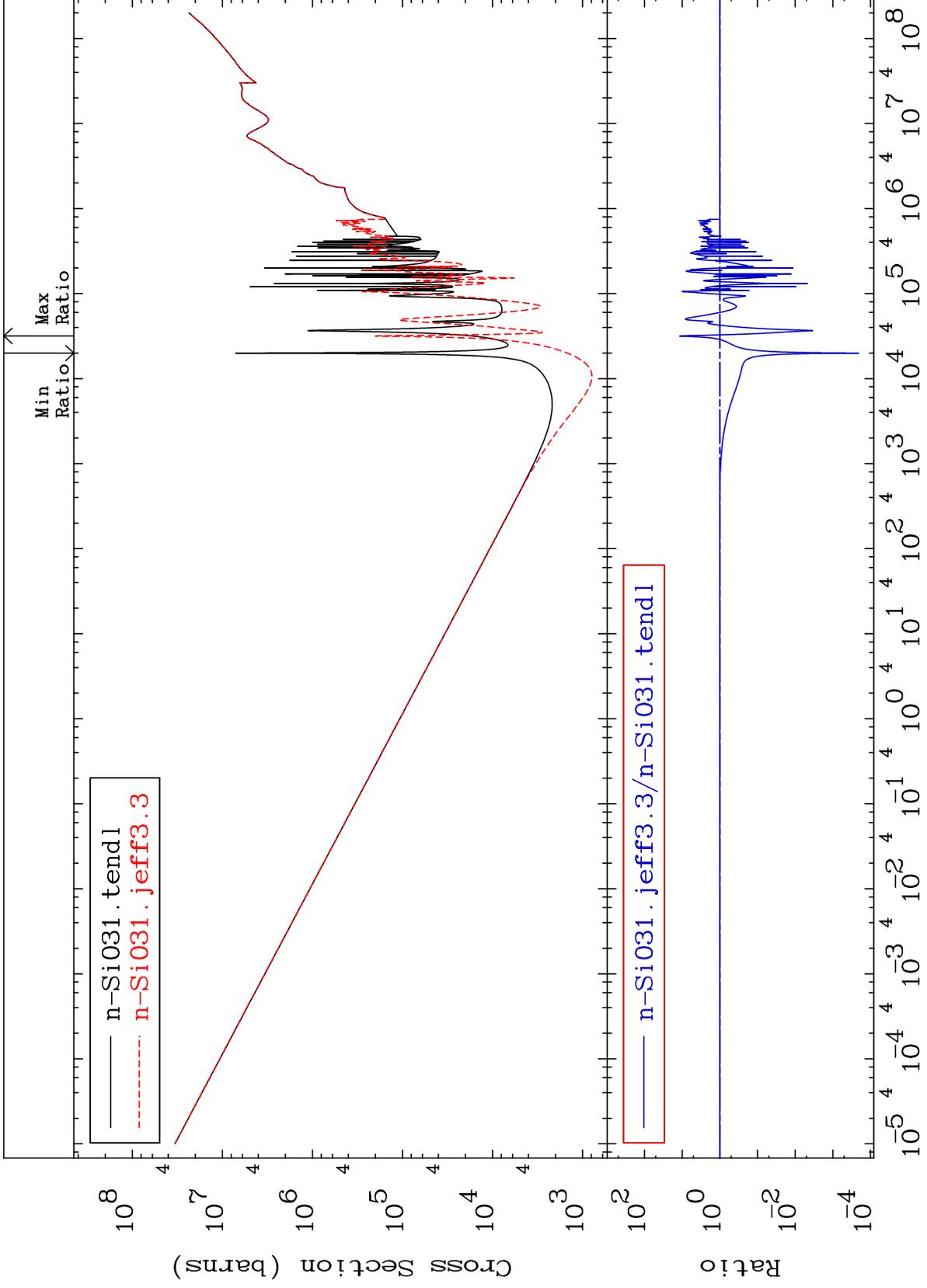
<sup>14</sup>Si-31  
-24.47 To 24.32 %



MAT 1434

Kerma total (eV-barns)  
Cross Section

14-Si-31  
-99.98 To 1072. %



64

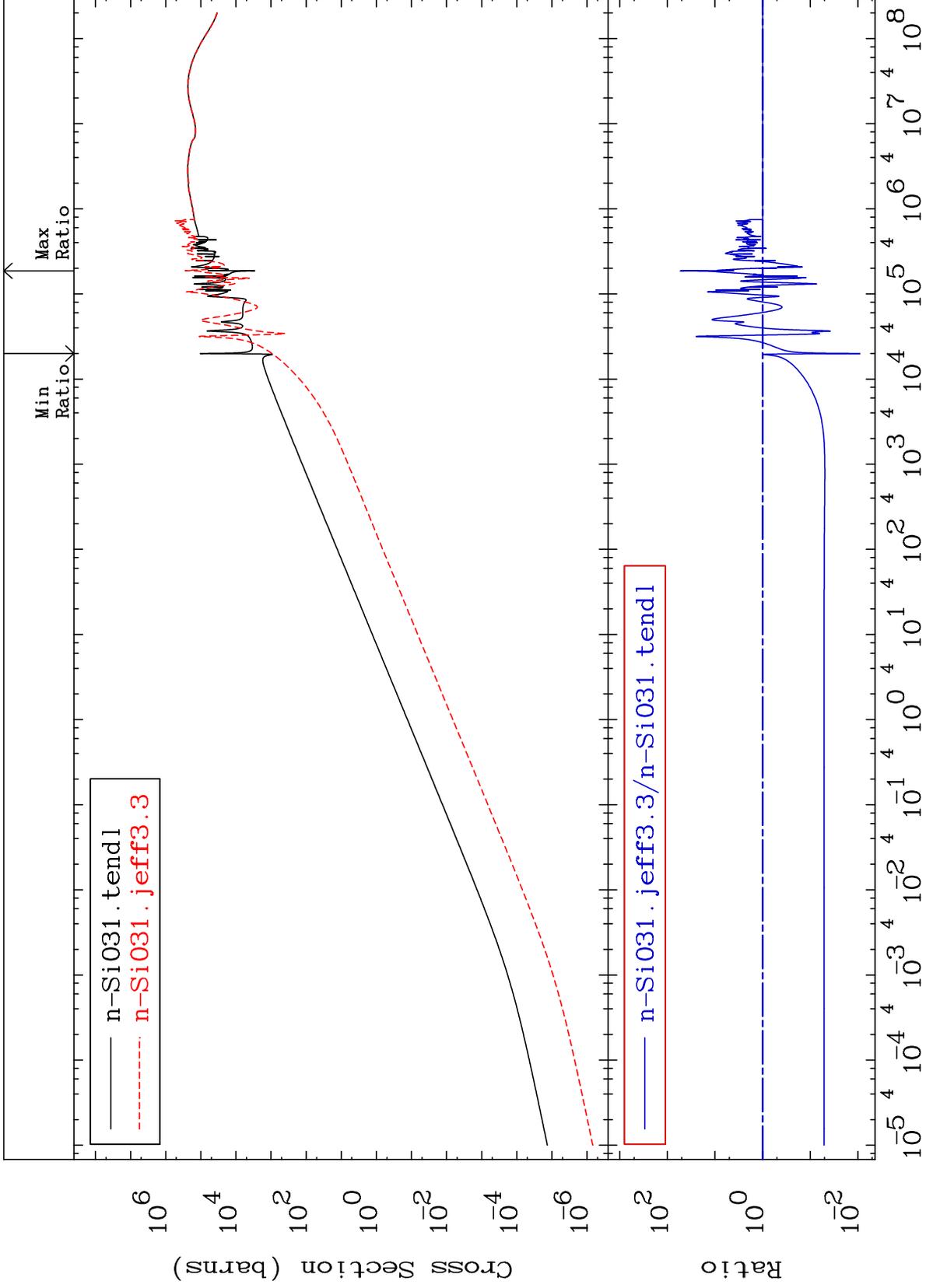
Incident Energy (eV)

14-Si-31

MAT 1434

Kerma elastic  
Cross Section

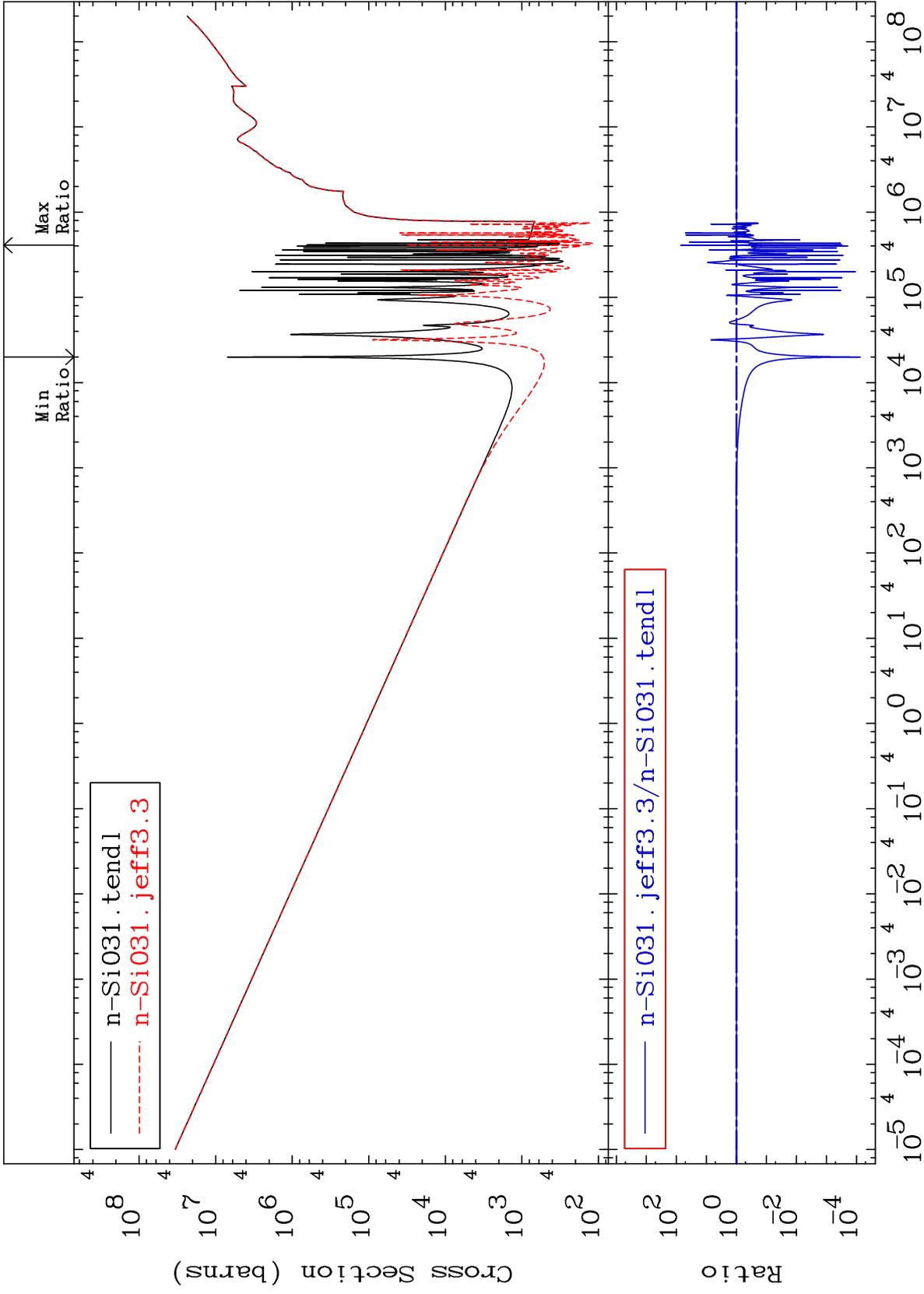
14-Si-31  
-99.09 To 5206. %



65

Incident Energy (eV)

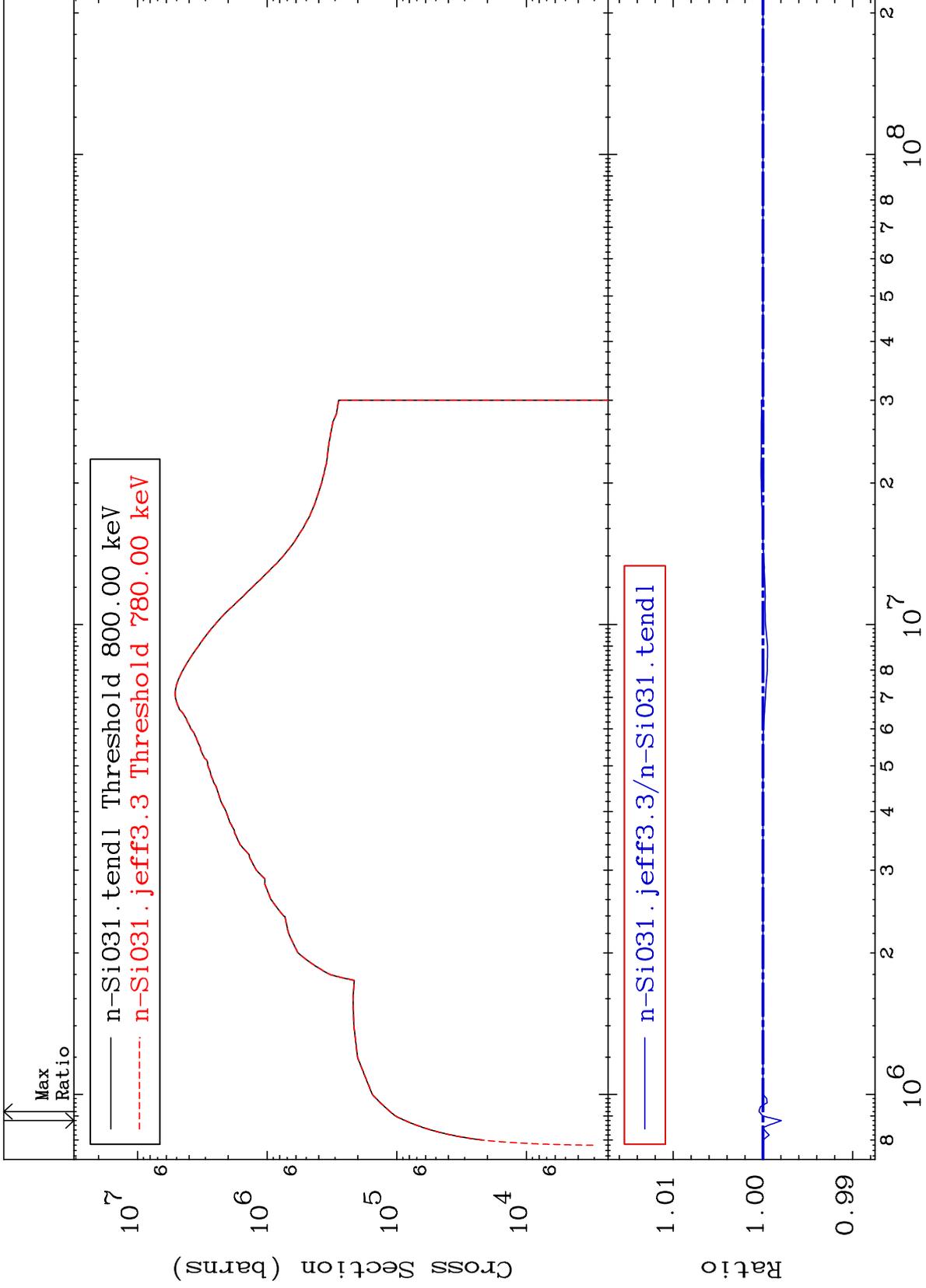
14-Si-31



MAT 1434

Kerma inelastic (mt51-91)  
Cross Section

14-Si-31  
-0.206 To 0.045 %



67

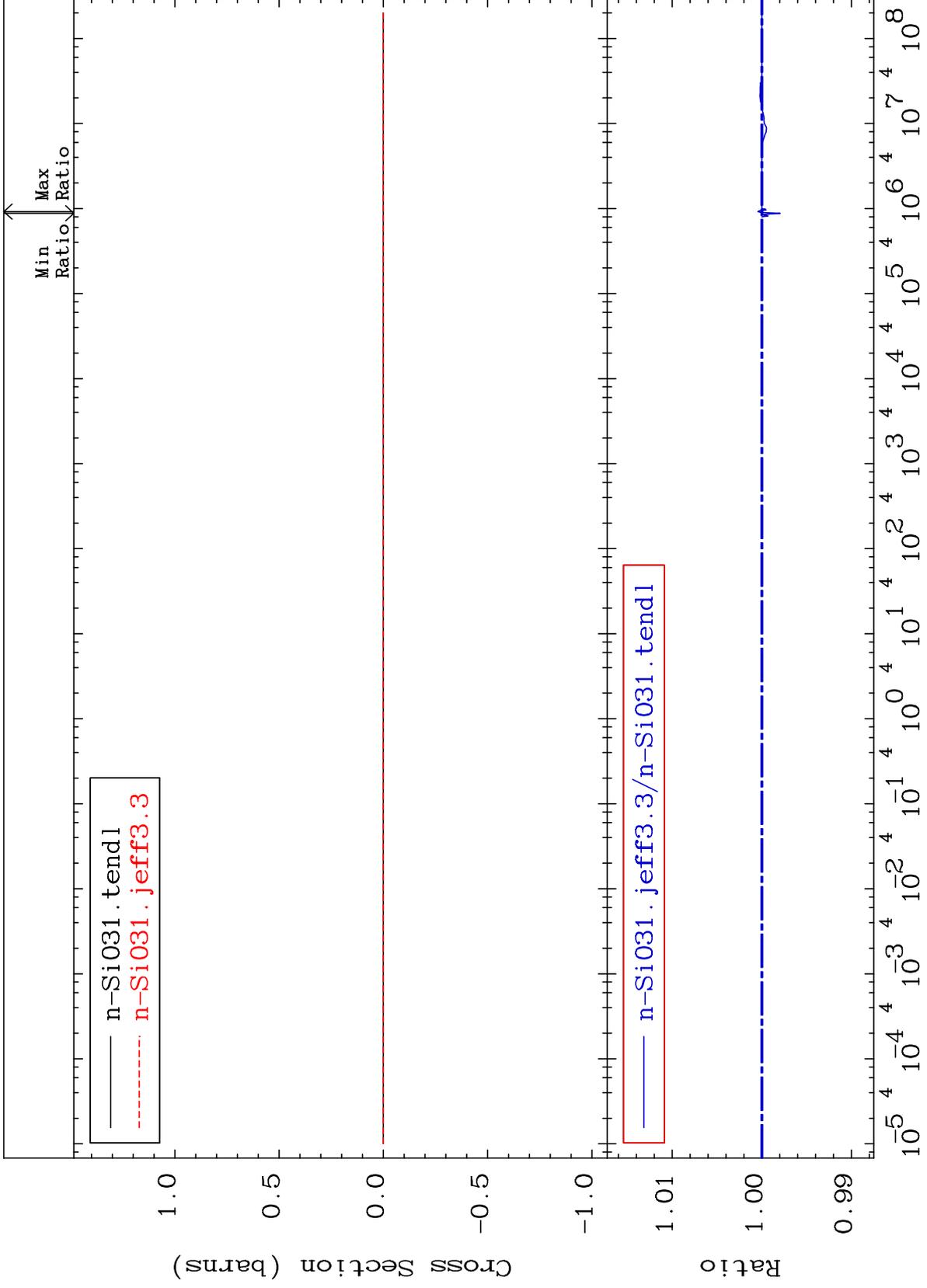
Incident Energy (eV)

14-Si-31

MAT 1434

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

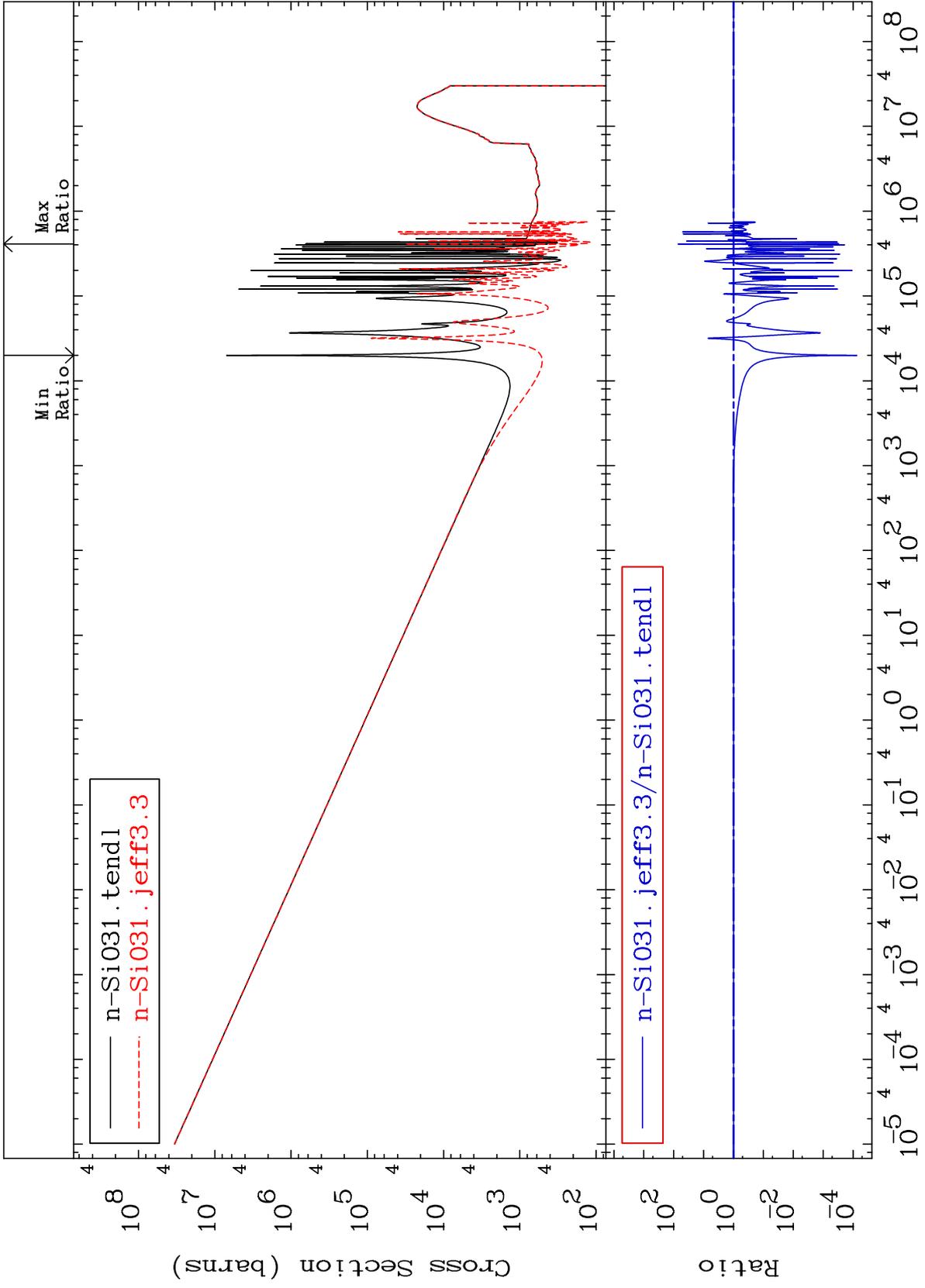
14-Si-31  
-0.206 To 0.045 %



MAT 1434

Kerma capture (mt102)  
Cross Section

14-Si-31  
-99.99 To 7029. %



69

Incident Energy (eV)

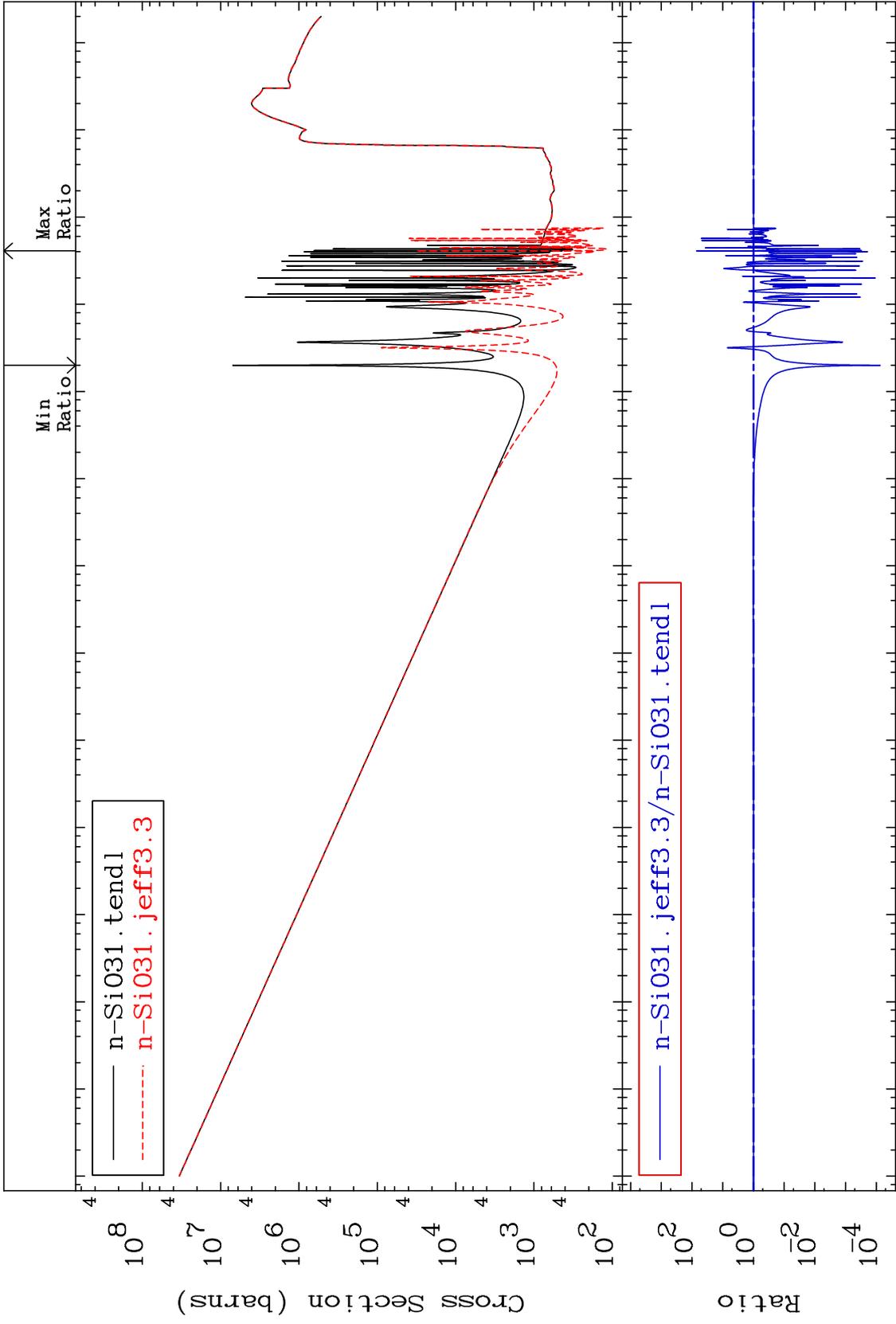
14-Si-31

MAT 1434

Total photon (eV-barns)  
Cross Section

14-Si-31

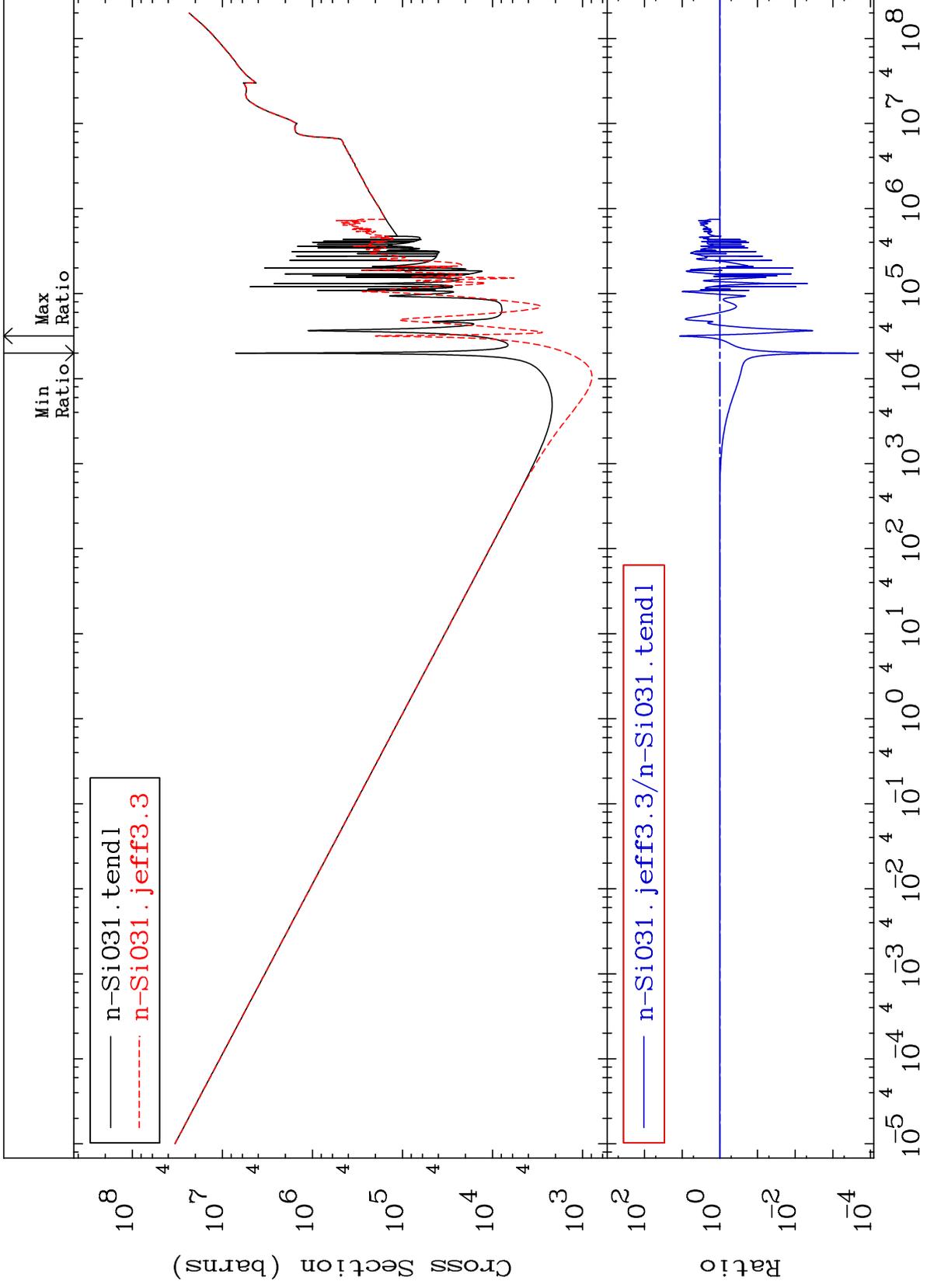
-99.99 To 7029. %



70

Incident Energy (eV)

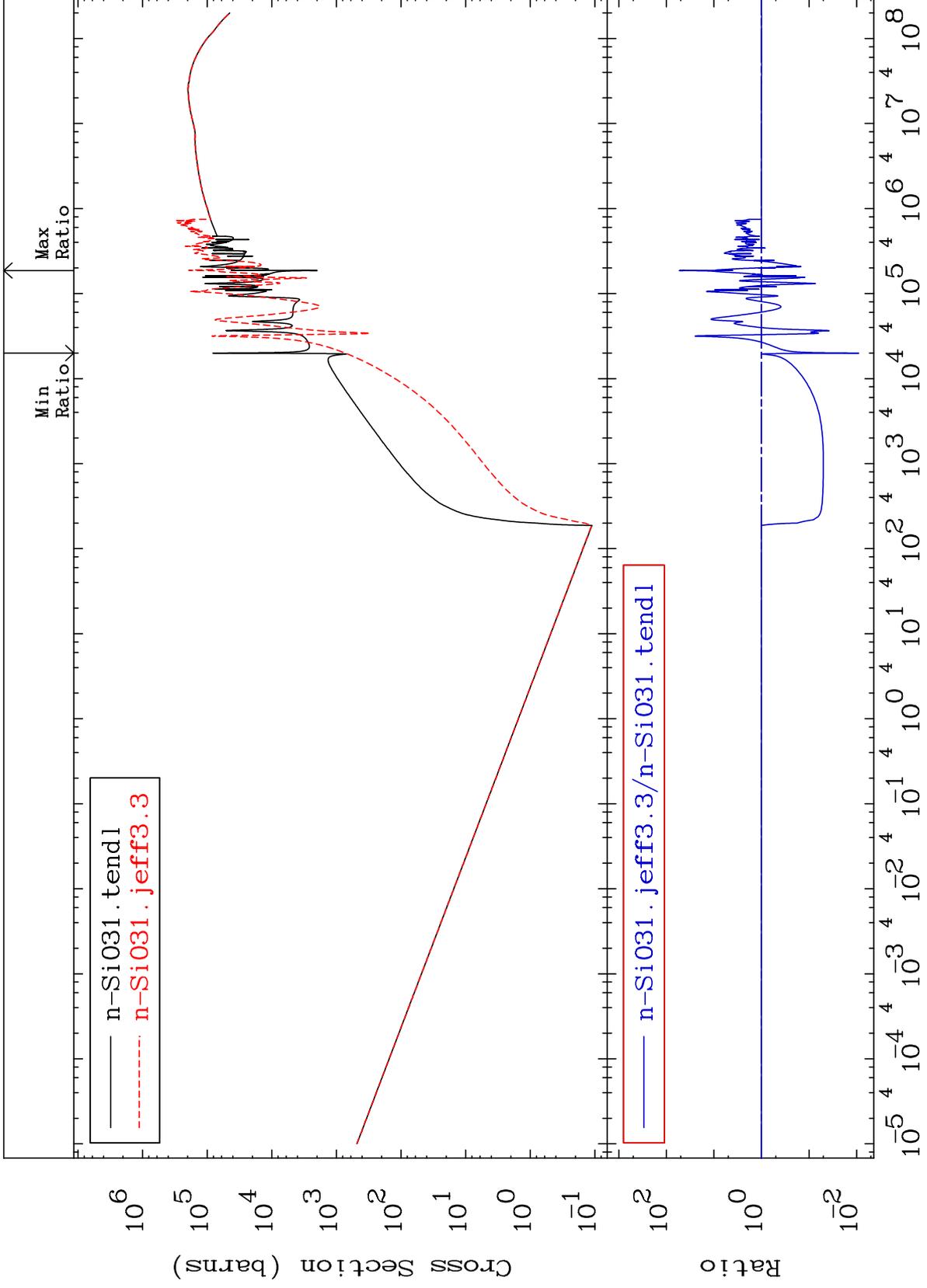
14-Si-31



MAT 1434

Dpa total (eV-barns)  
Cross Section

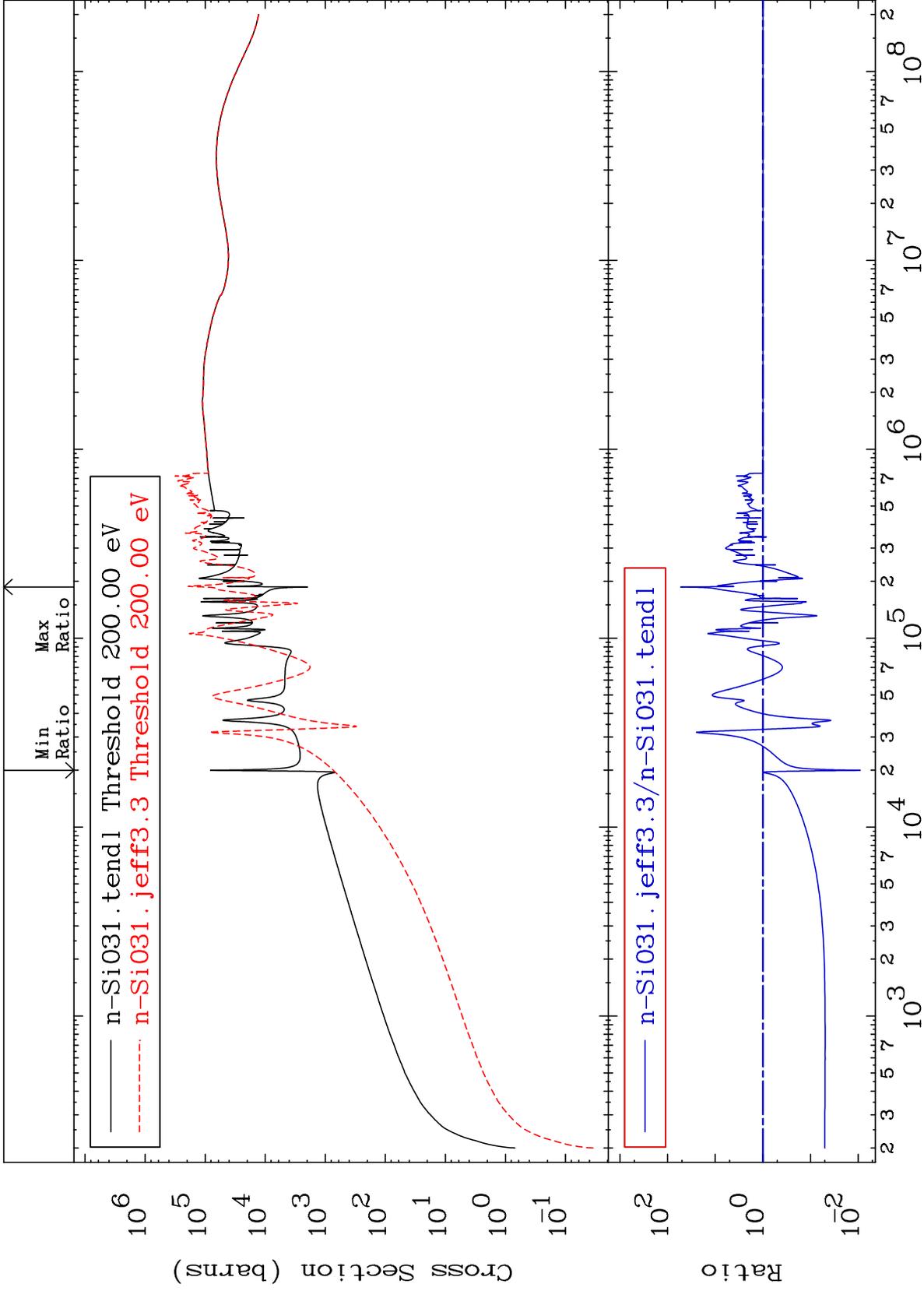
14-Si-31  
-99.09 To 5204. %



72

Incident Energy (eV)

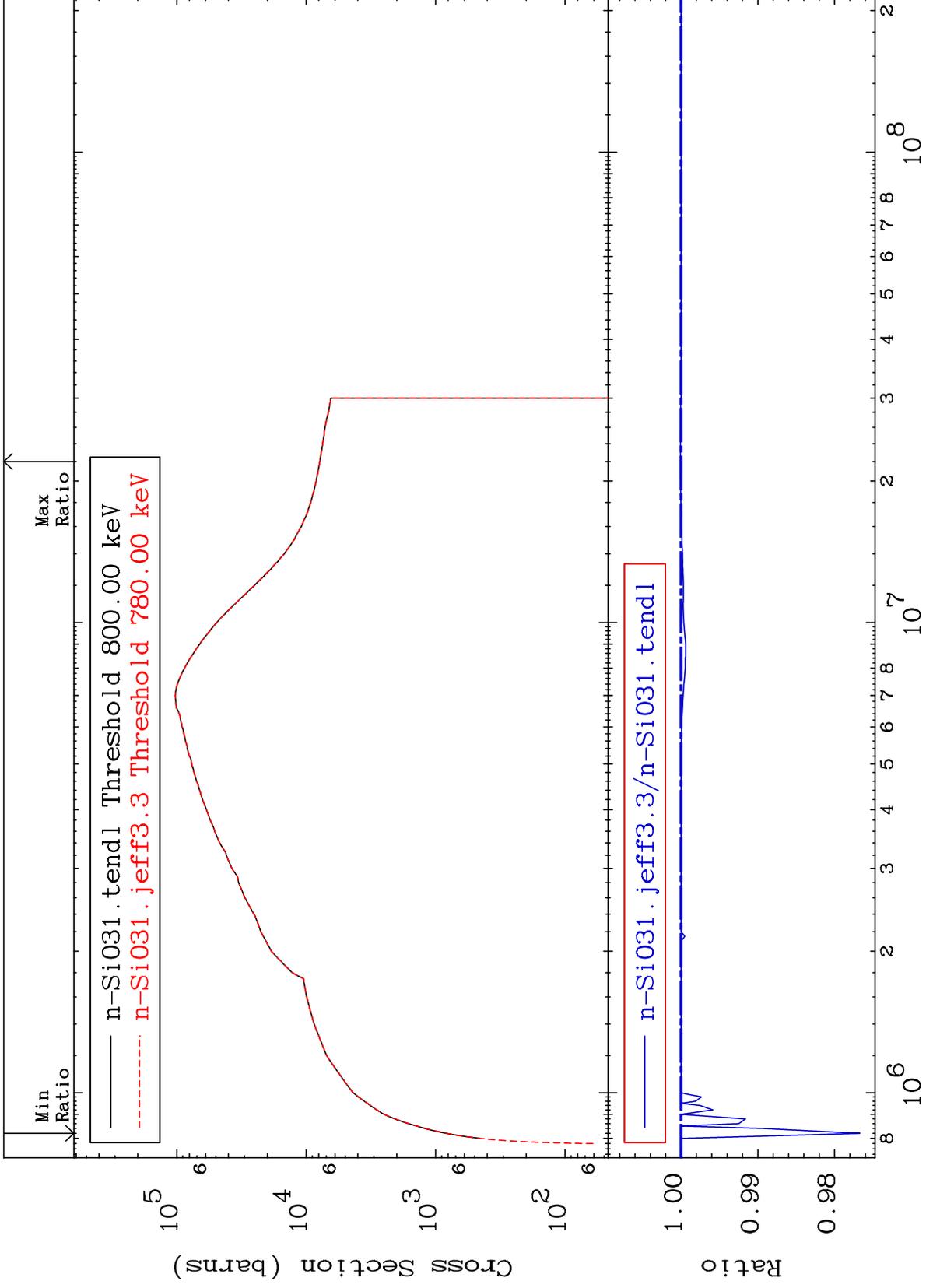
14-Si-31



MAT 1434

Dpa inelastic (mt51-91)  
Cross Section

14-Si-31  
-2.328 To 0.007 %



74

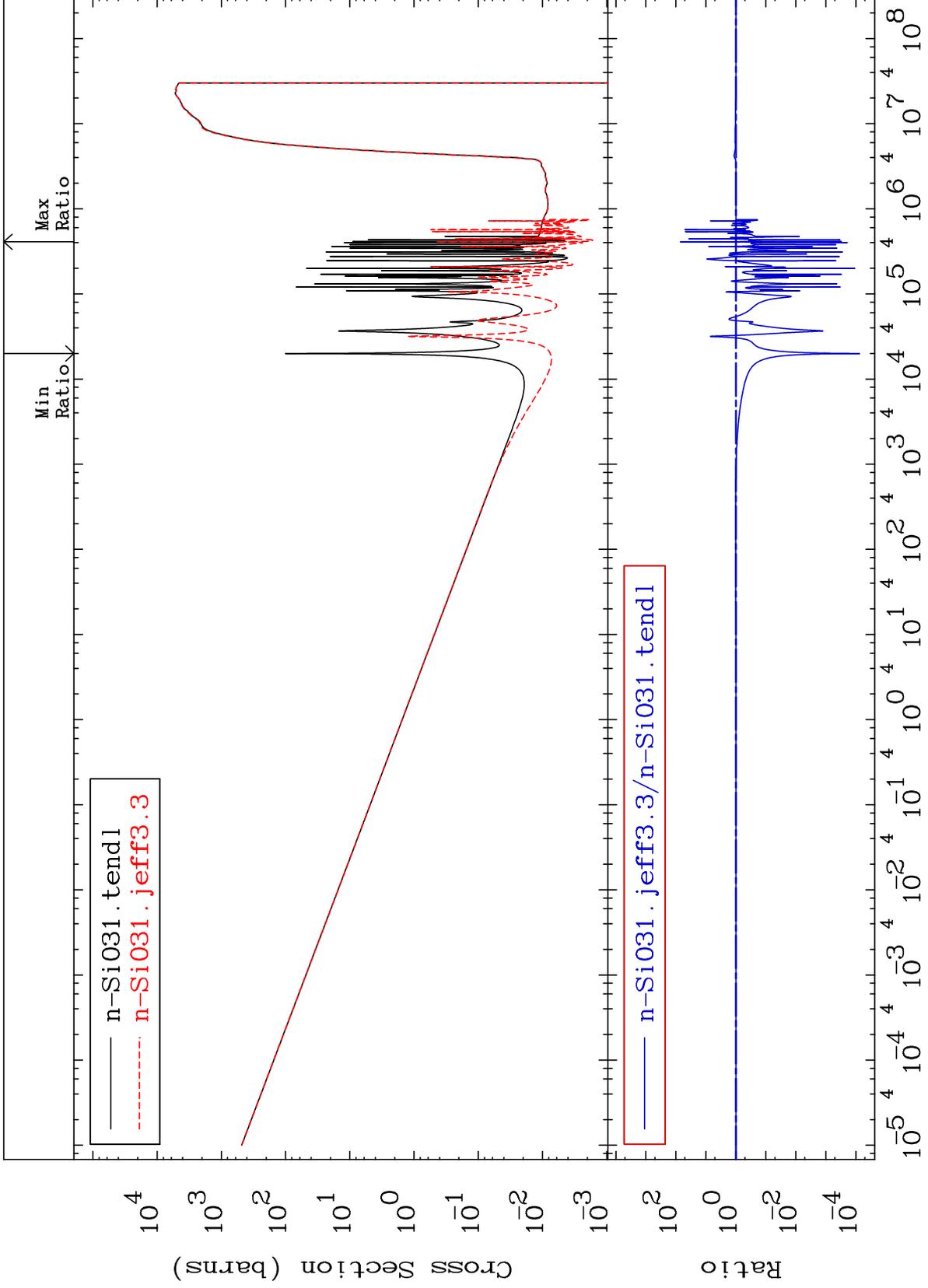
14-Si-31

14-Si-31

MAT 1434

Dpa disappearance (mt102 -120)  
Cross Section

14-Si-31  
-99.99 To 7029. %



75

Incident Energy (eV)

14-Si-31