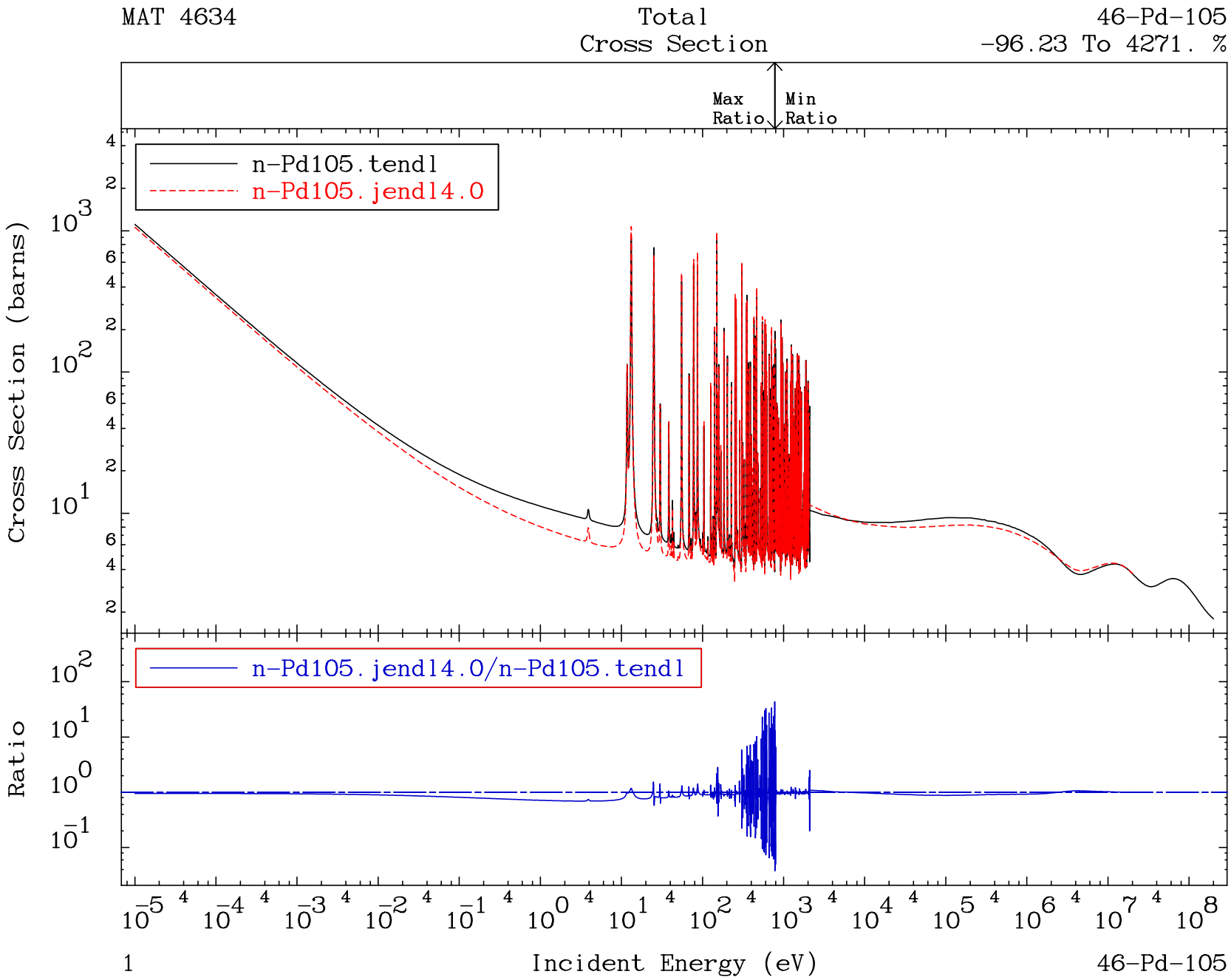
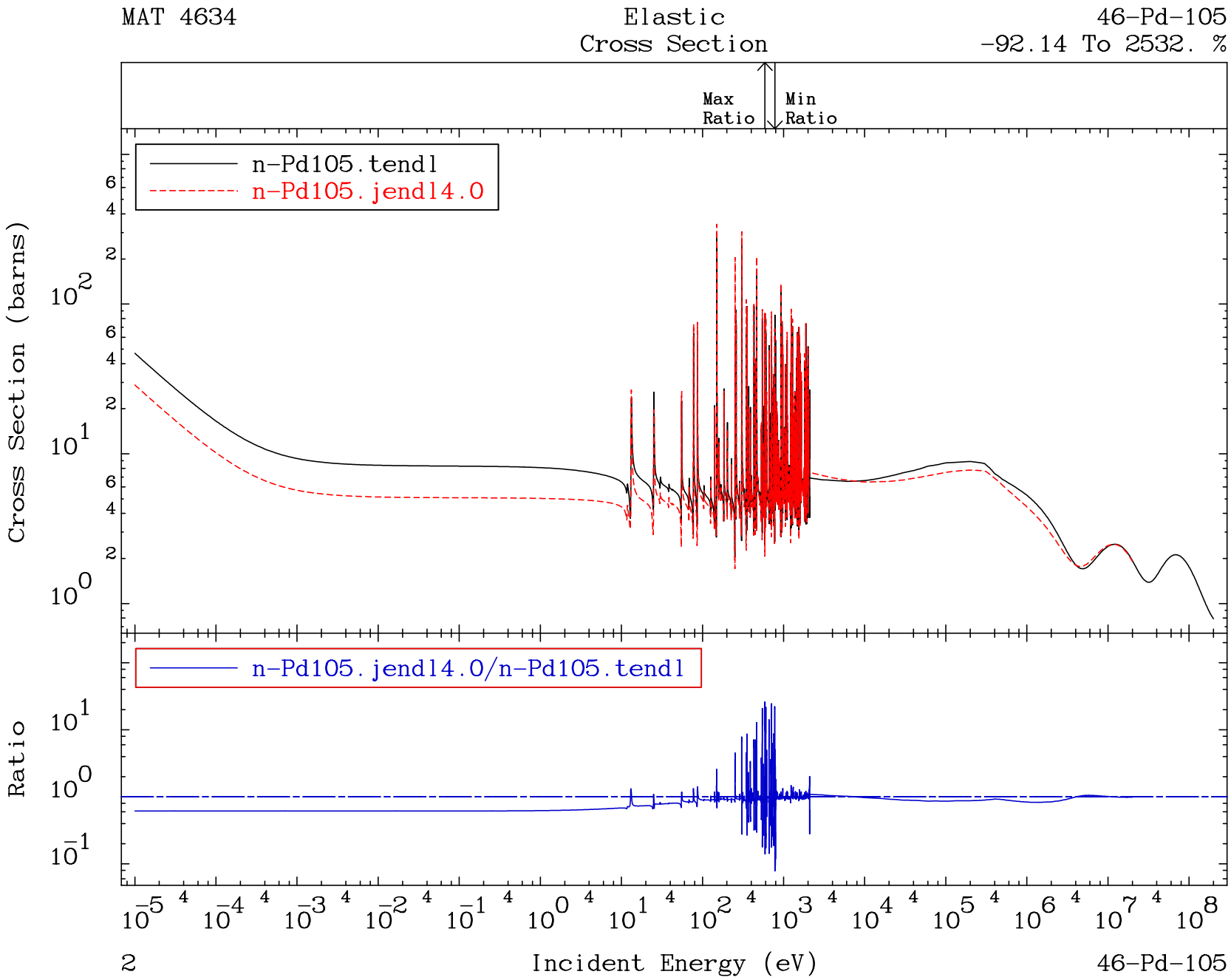
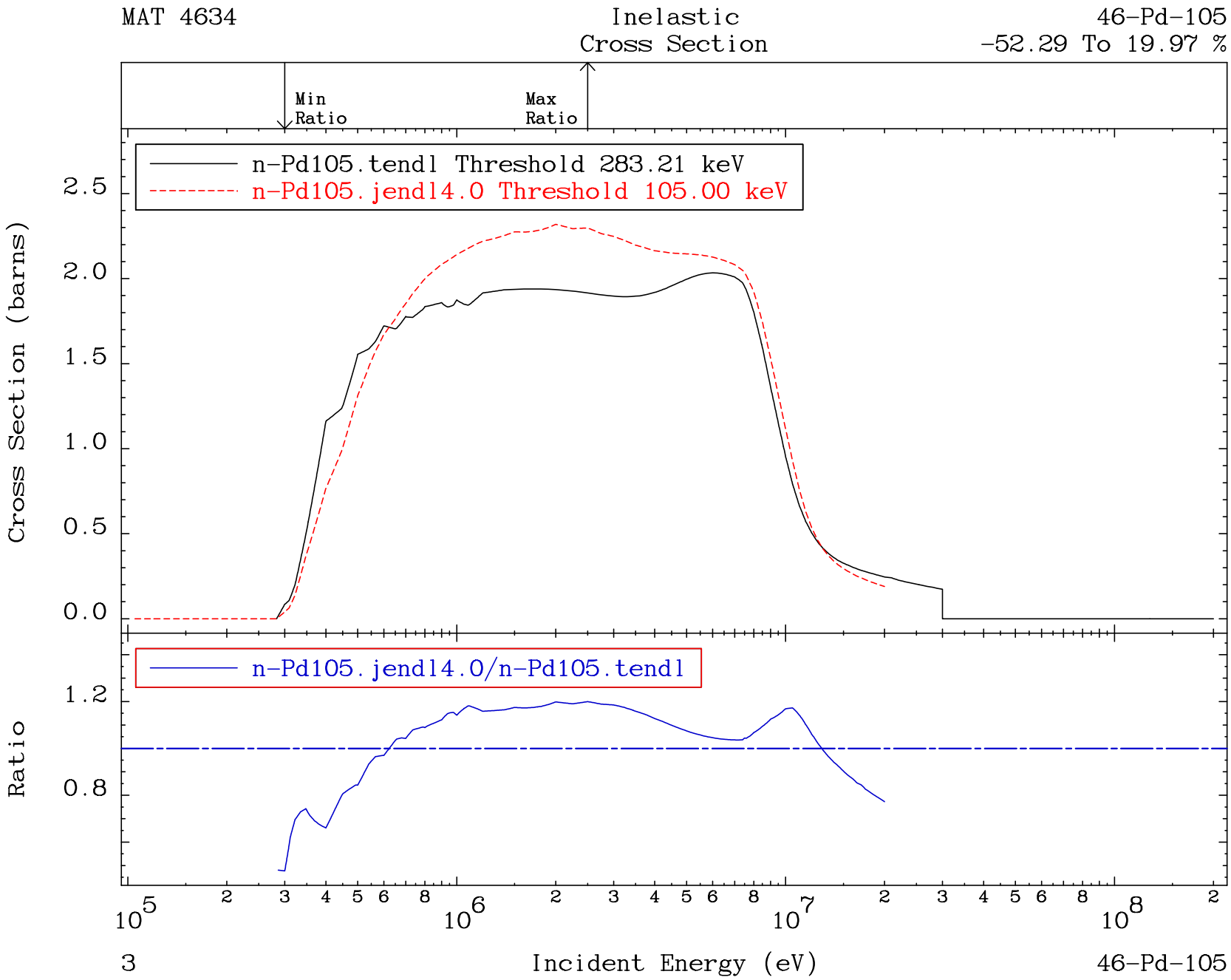
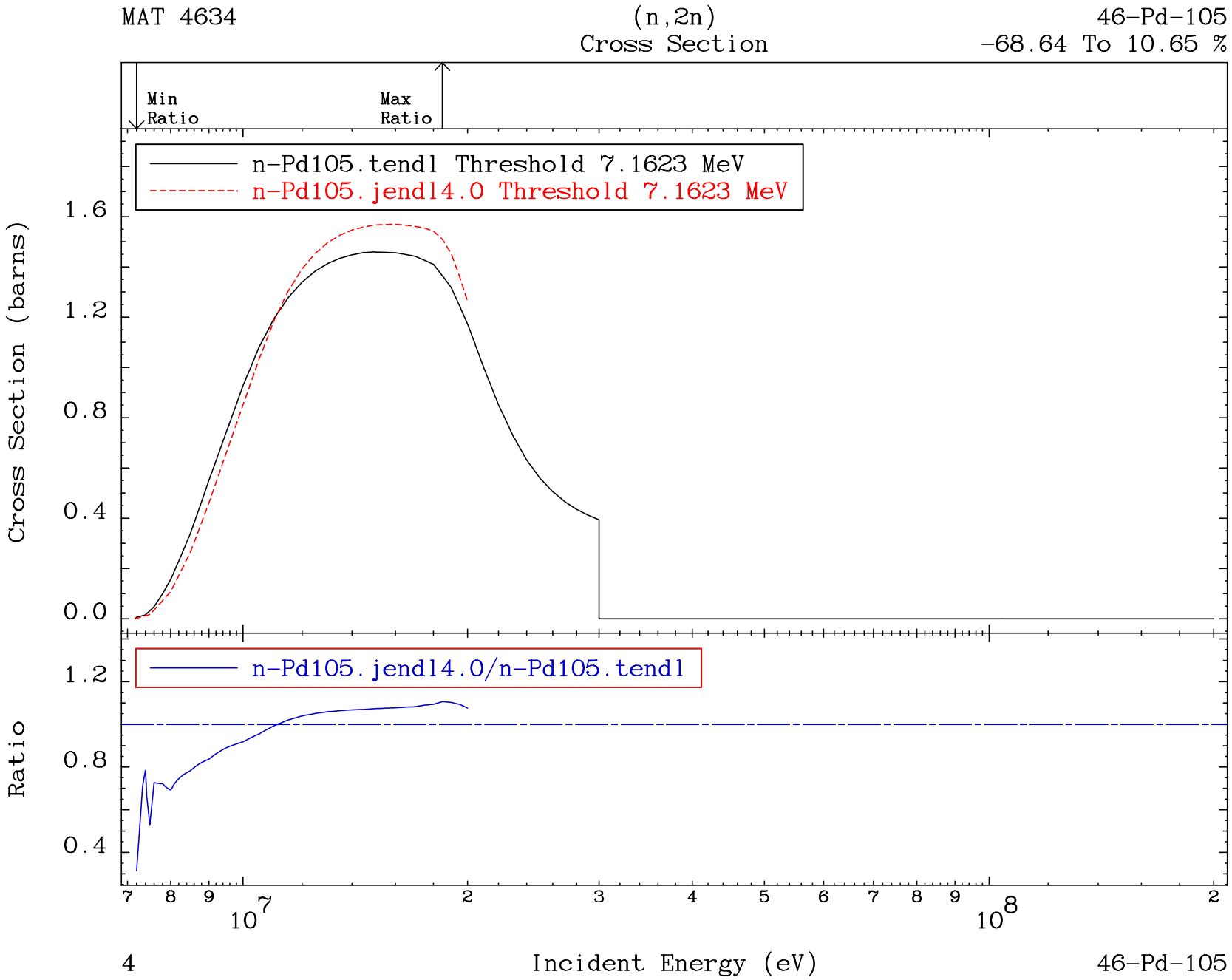
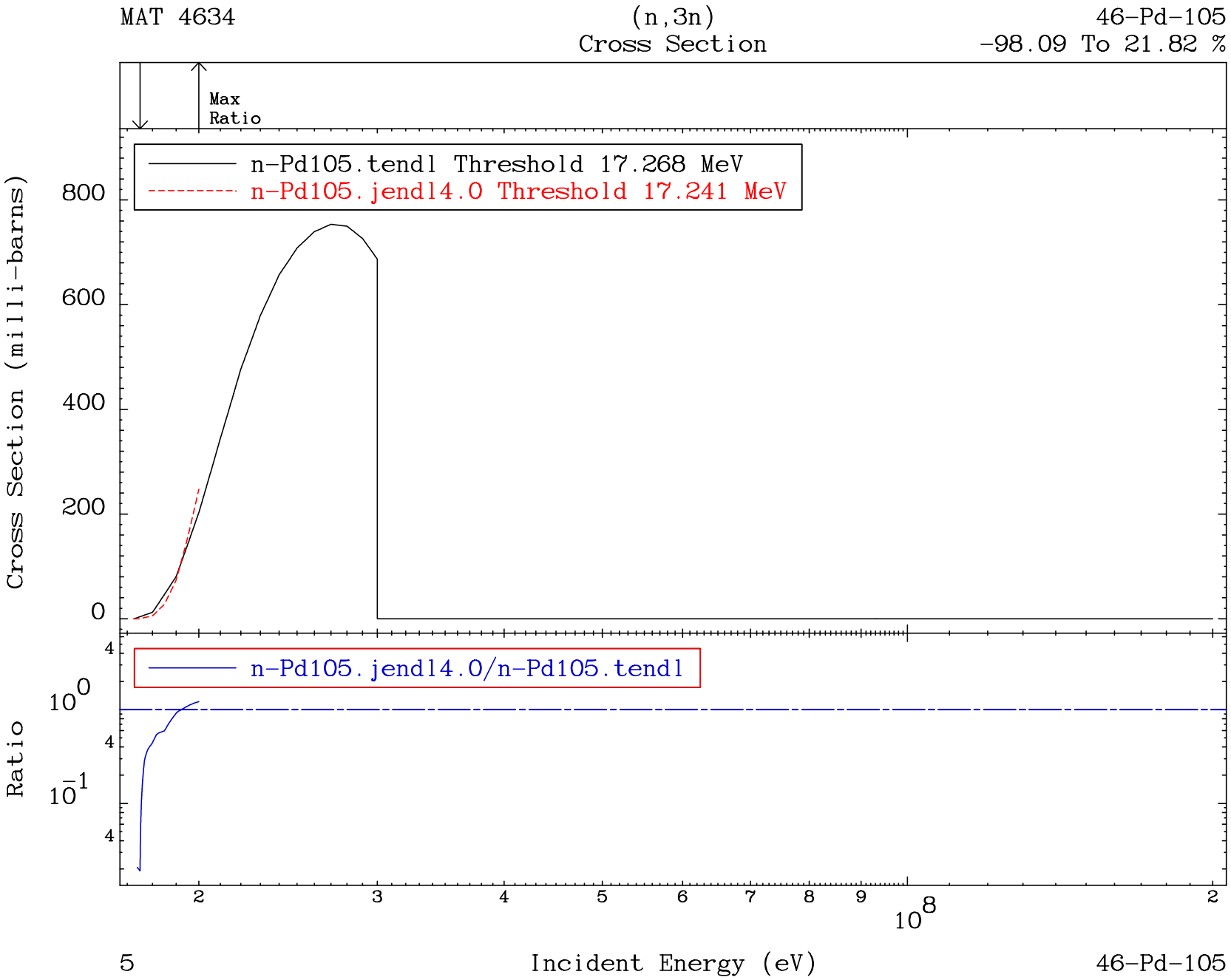
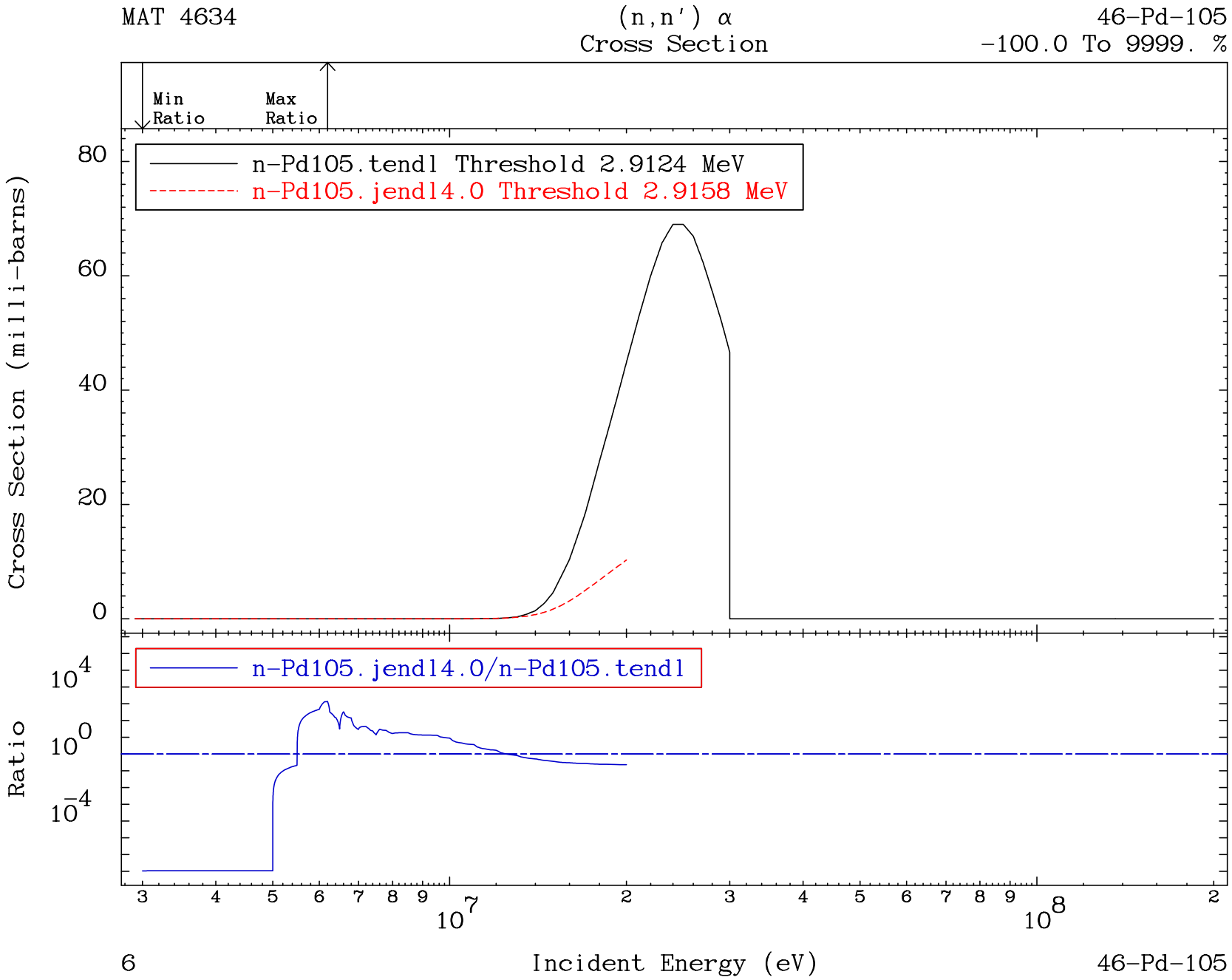

MAT 4634
Total
Cross Section
46-Pd-105
-96.23 To 4271. %
Max
Ratio
Min
Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
1
46-Pd-105

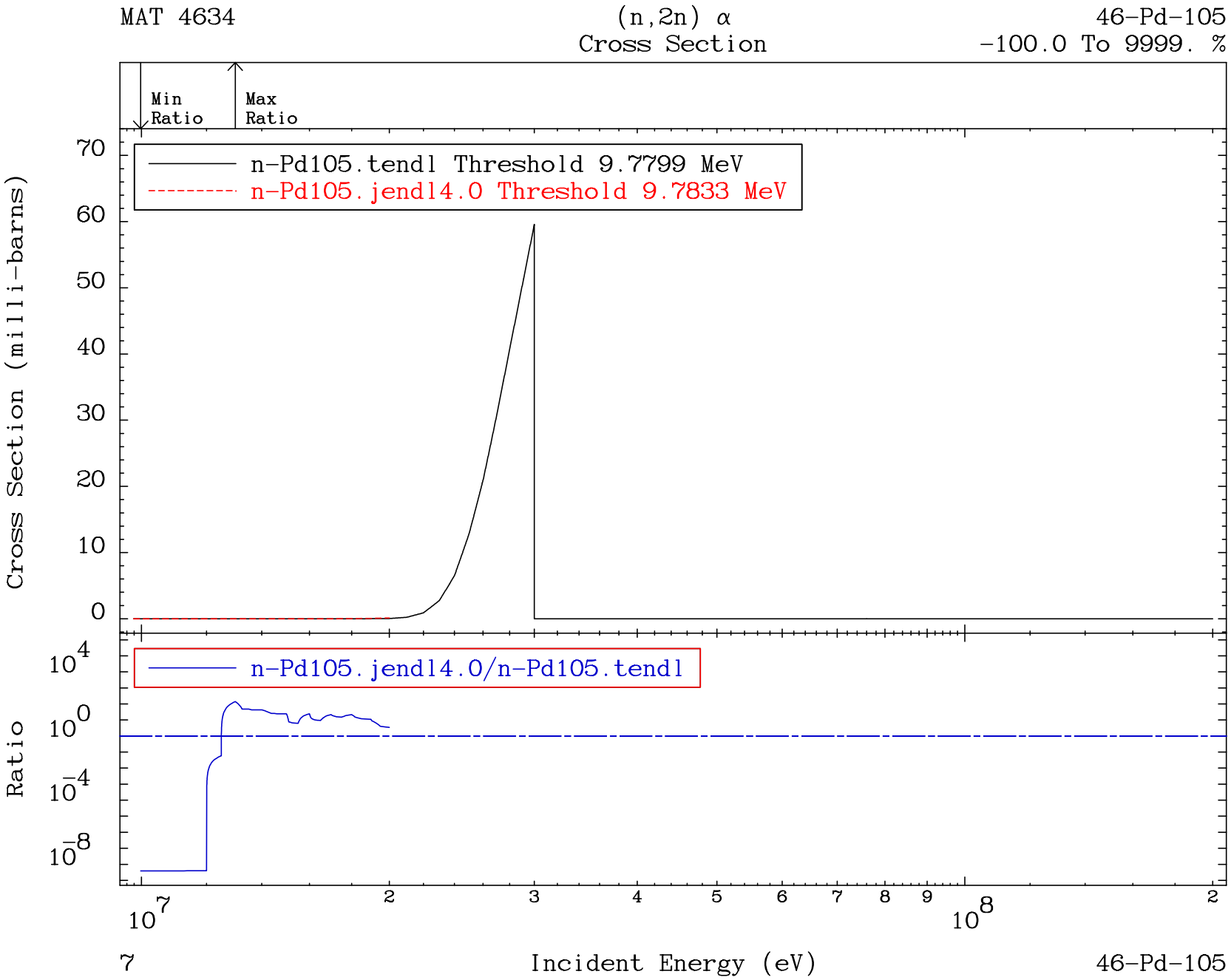

MAT 4634
Elastic
Cross Section
46-Pd-105
-92.14 To 2532. %
Max
Ratio
Min
Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
2
46-Pd-105

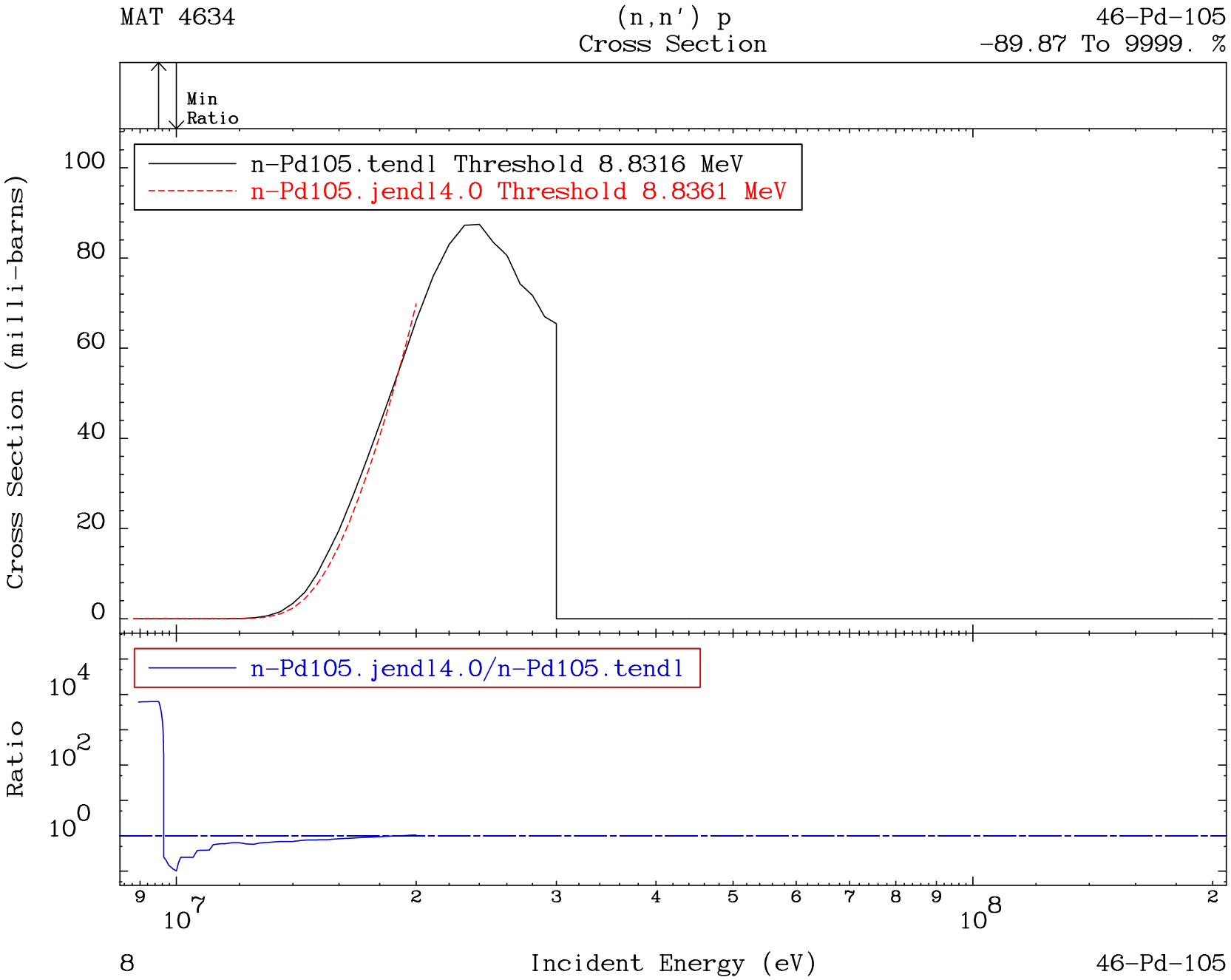

MAT 4634
Inelastic
Cross Section
46-Pd-105
-52.29 To 19.97 %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 283.21 keV
n-Pd105.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
0.8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
46-Pd-105

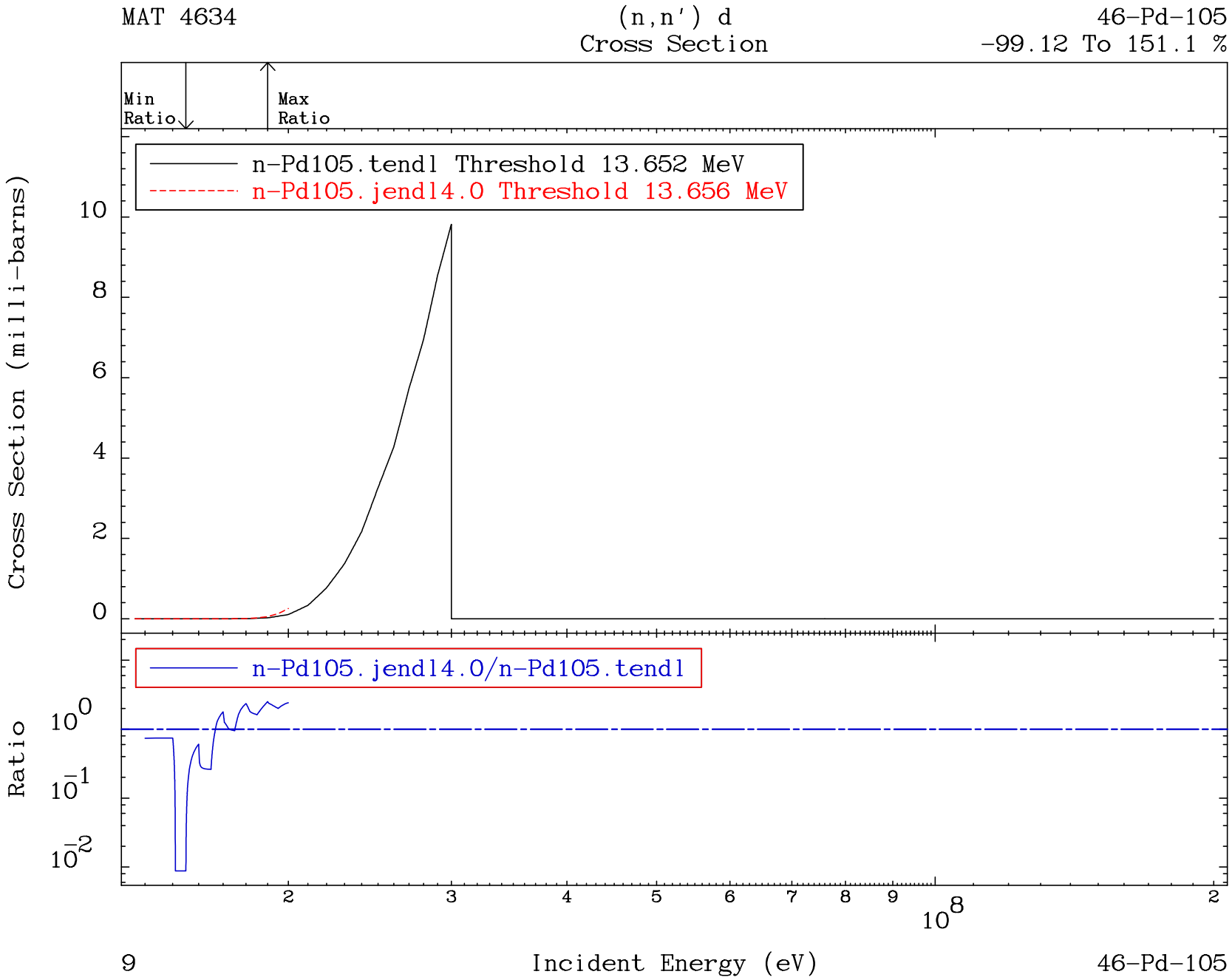

MAT 4634
(n,2n)
Cross Section
46-Pd-105
-68.64 To 10.65 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 7.1623 MeV
n-Pd105.jendl4.0 Threshold 7.1623 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
0.8
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
46-Pd-105

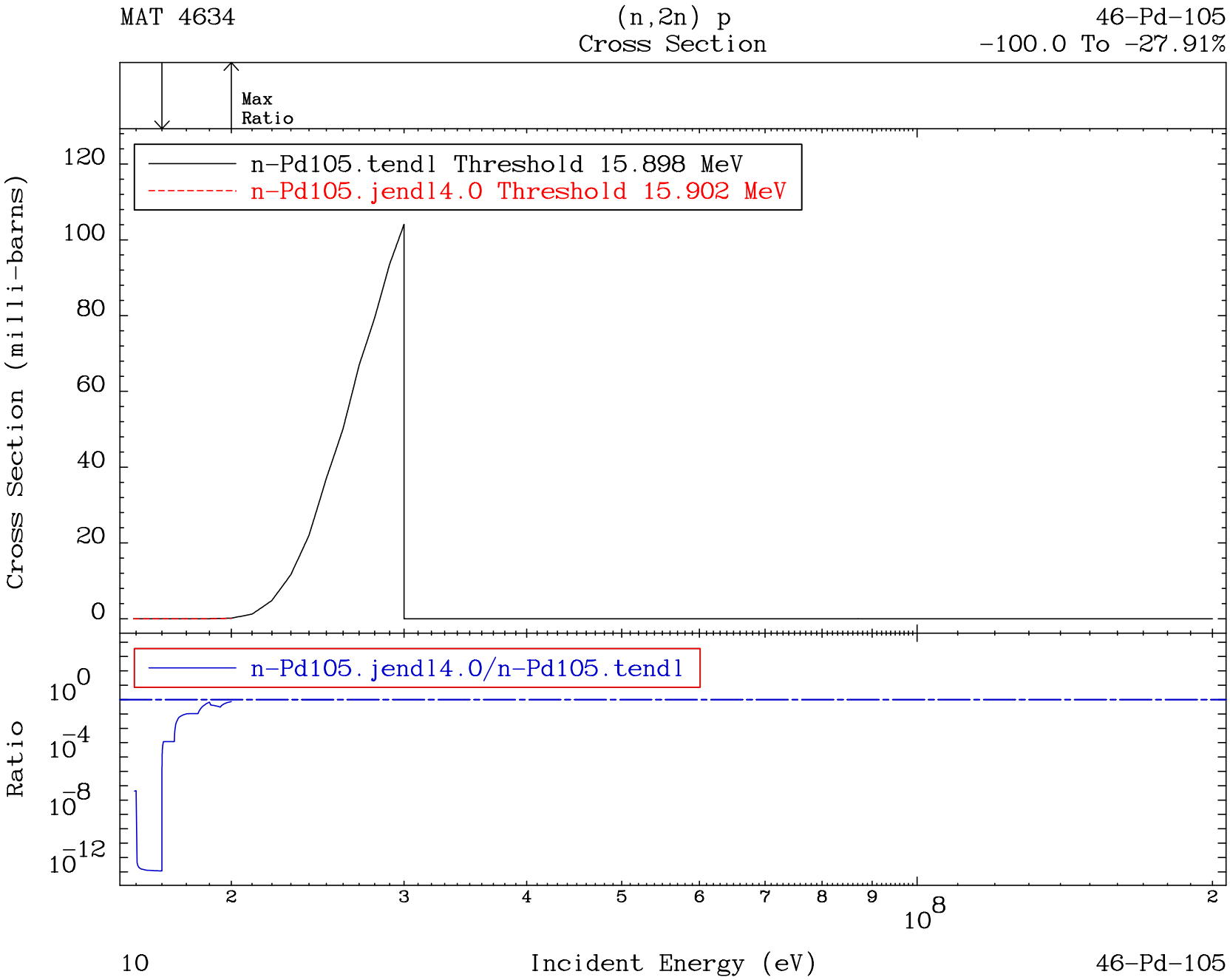

MAT 4634
(n,3n)
Cross Section
46-Pd-105
-98.09 To 21.82 %
Max
Ratio
n-Pd105.tendl Threshold 17.268 MeV
n-Pd105.jendl4.0 Threshold 17.241 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
46-Pd-105

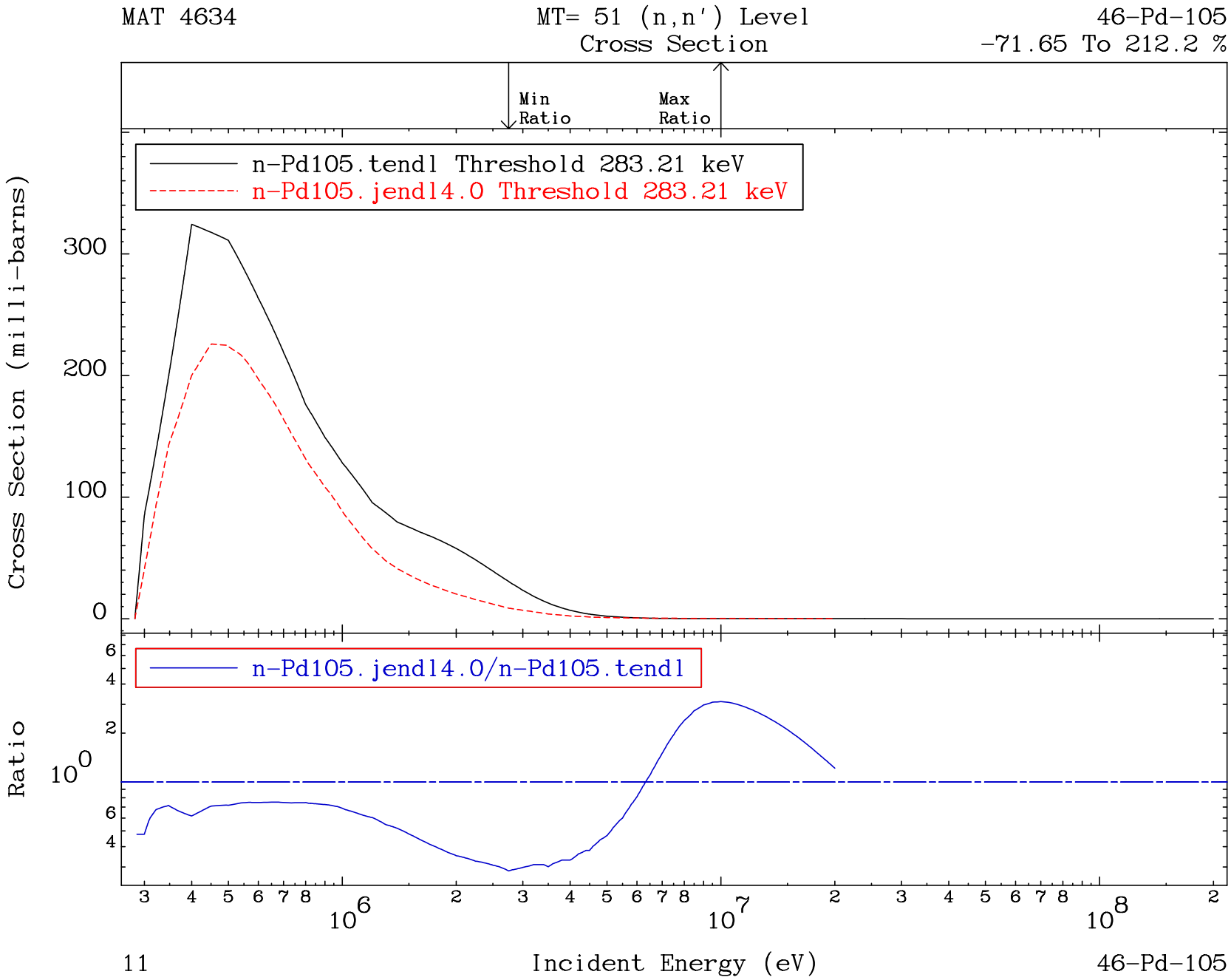

MAT 4634
(n,n') α
Cross Section
46-Pd-105
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 2.9124 MeV
n-Pd105.jendl4.0 Threshold 2.9158 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^4
10^0
10^-4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
46-Pd-105

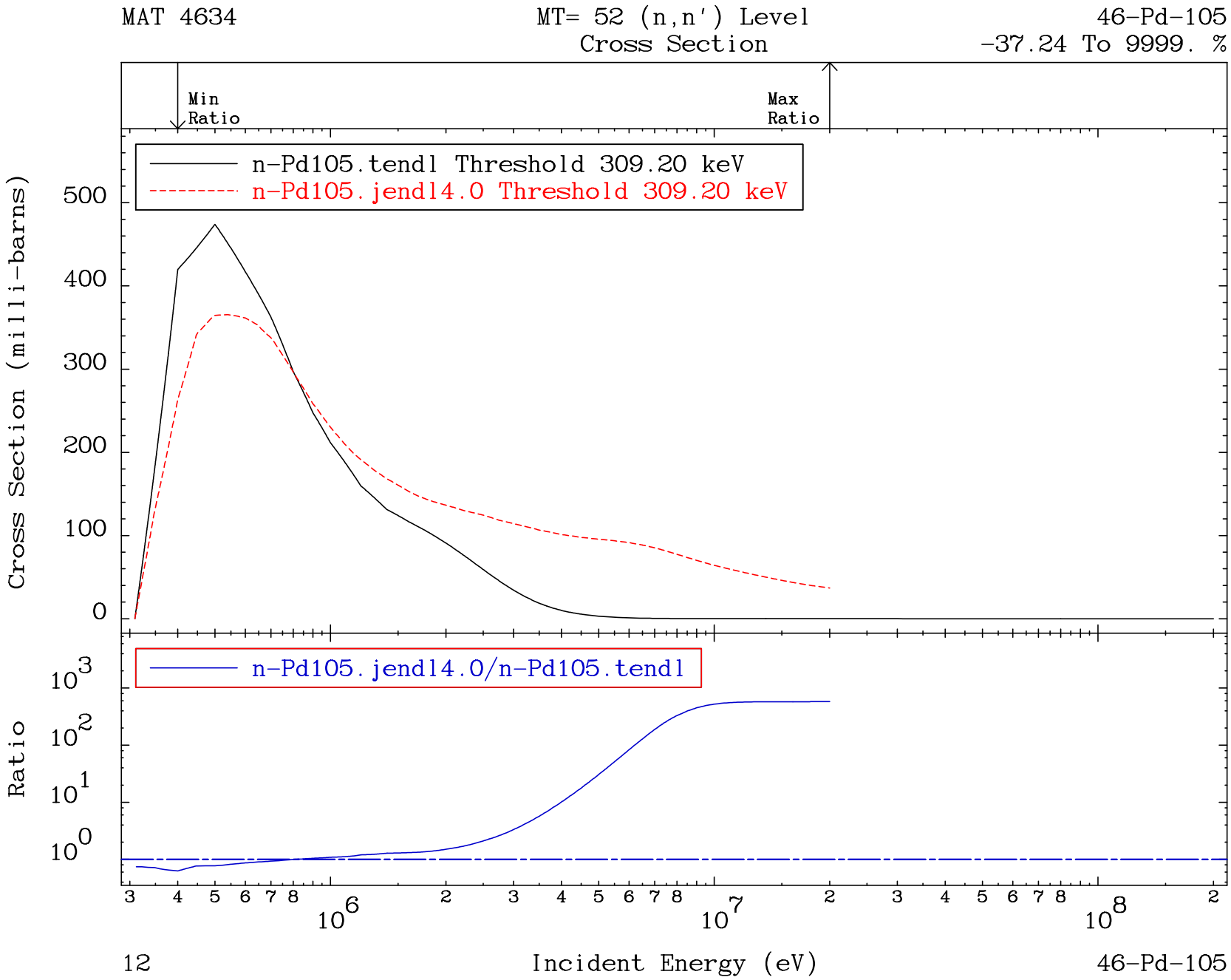

MAT 4634
(n,2n) α
Cross Section
46-Pd-105
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 9.7799 MeV
n-Pd105.jendl4.0 Threshold 9.7833 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^4
10^0
10^-4
10^-8
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
46-Pd-105

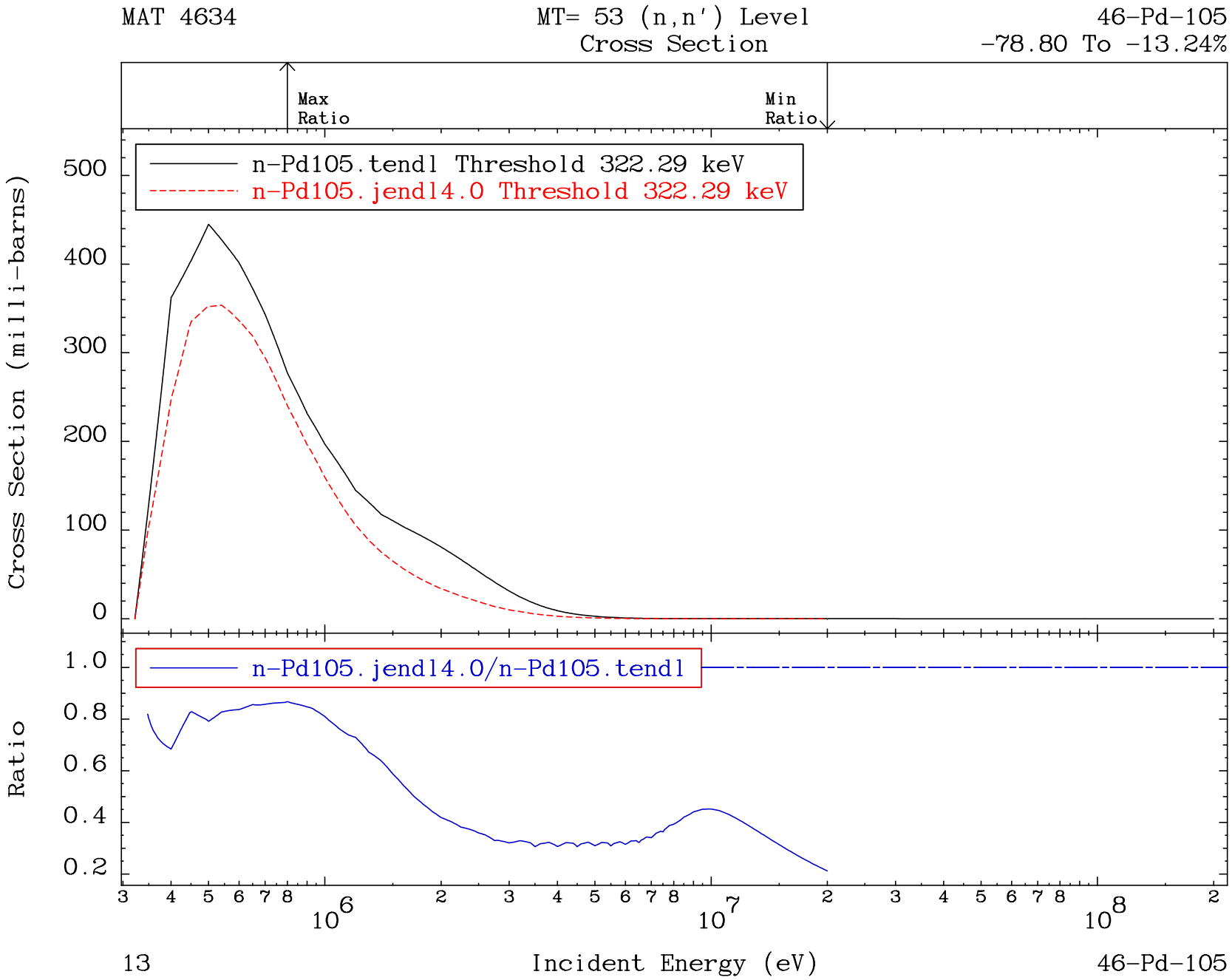

MAT 4634
(n,n') p
Cross Section
46-Pd-105
-89.87 To 9999. %
Min
Ratio
n-Pd105.tendl Threshold 8.8316 MeV
n-Pd105.jendl4.0 Threshold 8.8361 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^4
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
46-Pd-105

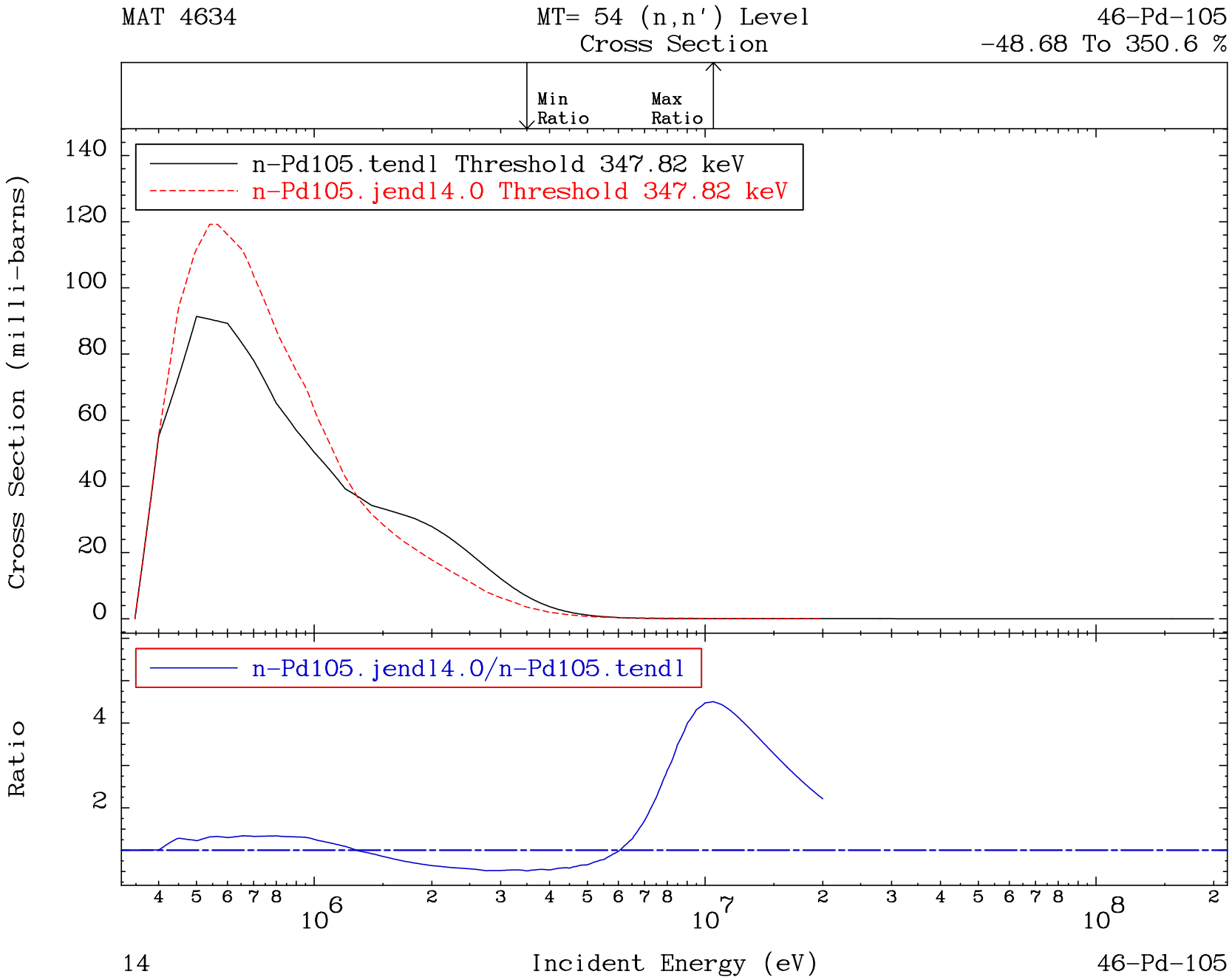

MAT 4634
(n,n') d
Cross Section
46-Pd-105
-99.12 To 151.1 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 13.652 MeV
n-Pd105.jendl4.0 Threshold 13.656 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
46-Pd-105

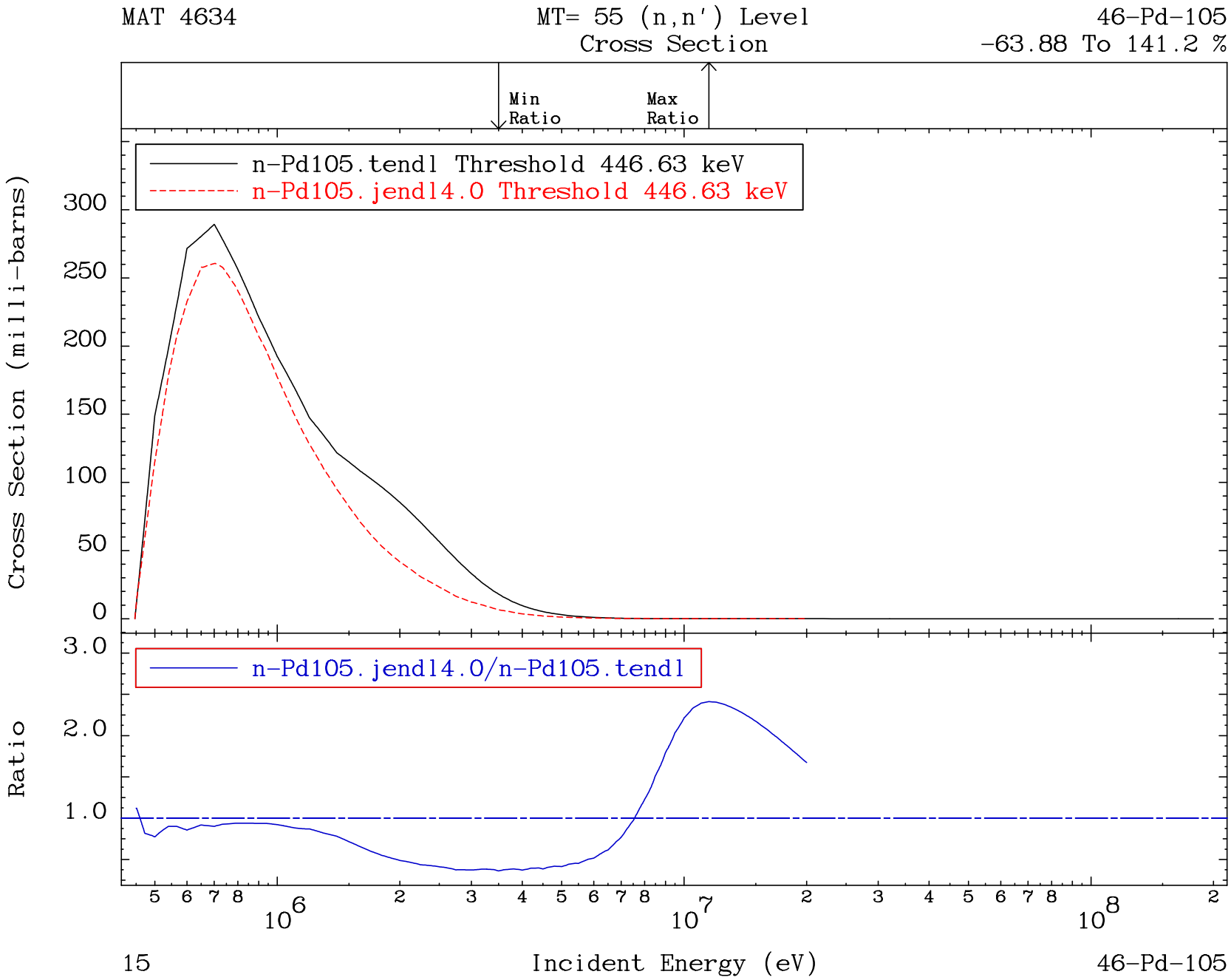

MAT 4634
(n,2n) p
Cross Section
46-Pd-105
-100.0 To -27.91%
Max
Ratio
n-Pd105.tendl Threshold 15.898 MeV
n-Pd105.jendl4.0 Threshold 15.902 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^-4
10^-8
10^-12
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
46-Pd-105

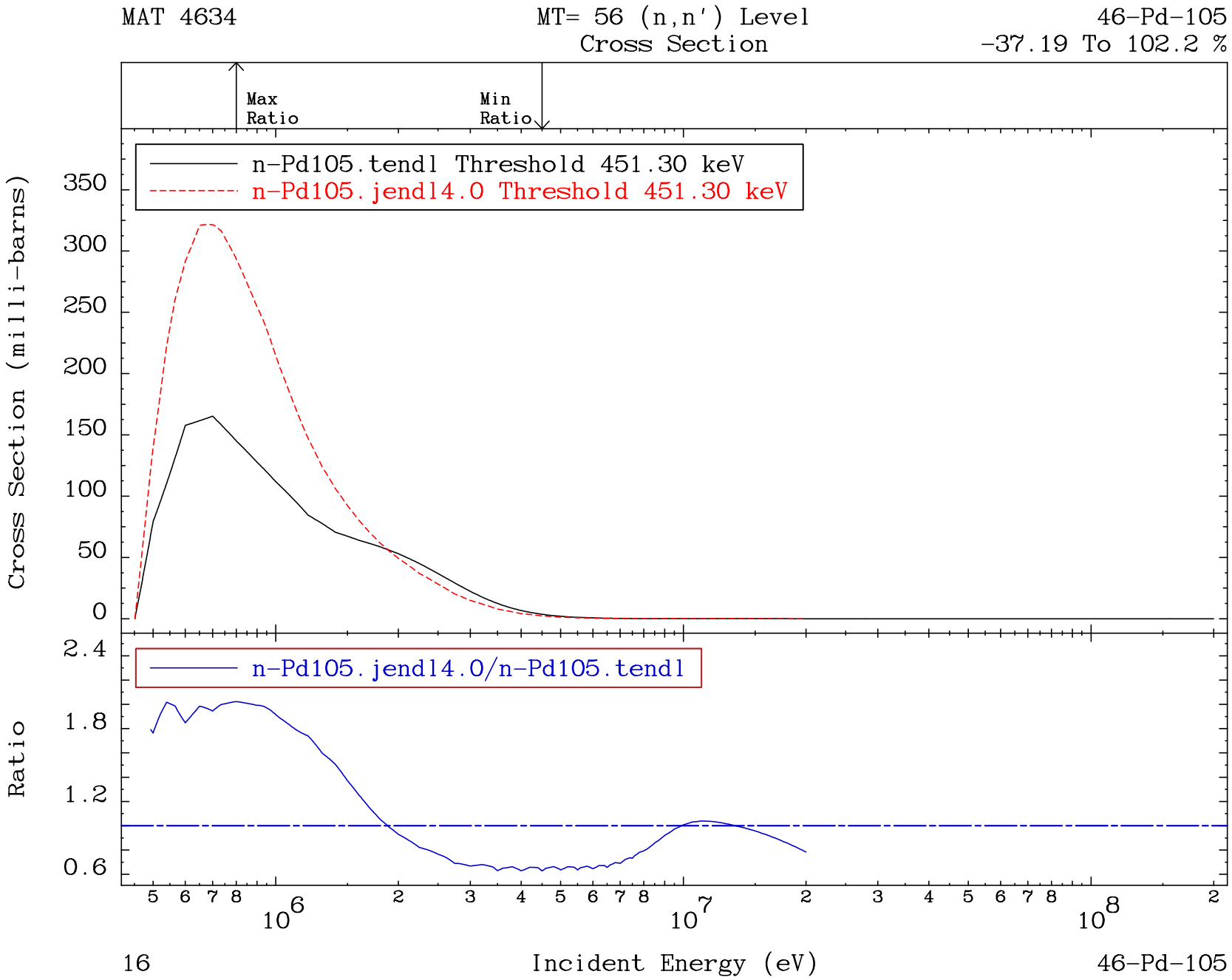

MAT 4634
MT= 51 (n,n') Level
Cross Section
46-Pd-105
-71.65 To 212.2 %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 283.21 keV
n-Pd105.jendl4.0 Threshold 283.21 keV
Cross Section (milli-barns)
300
200
100
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
6
4
2
10^0
6
4
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
46-Pd-105

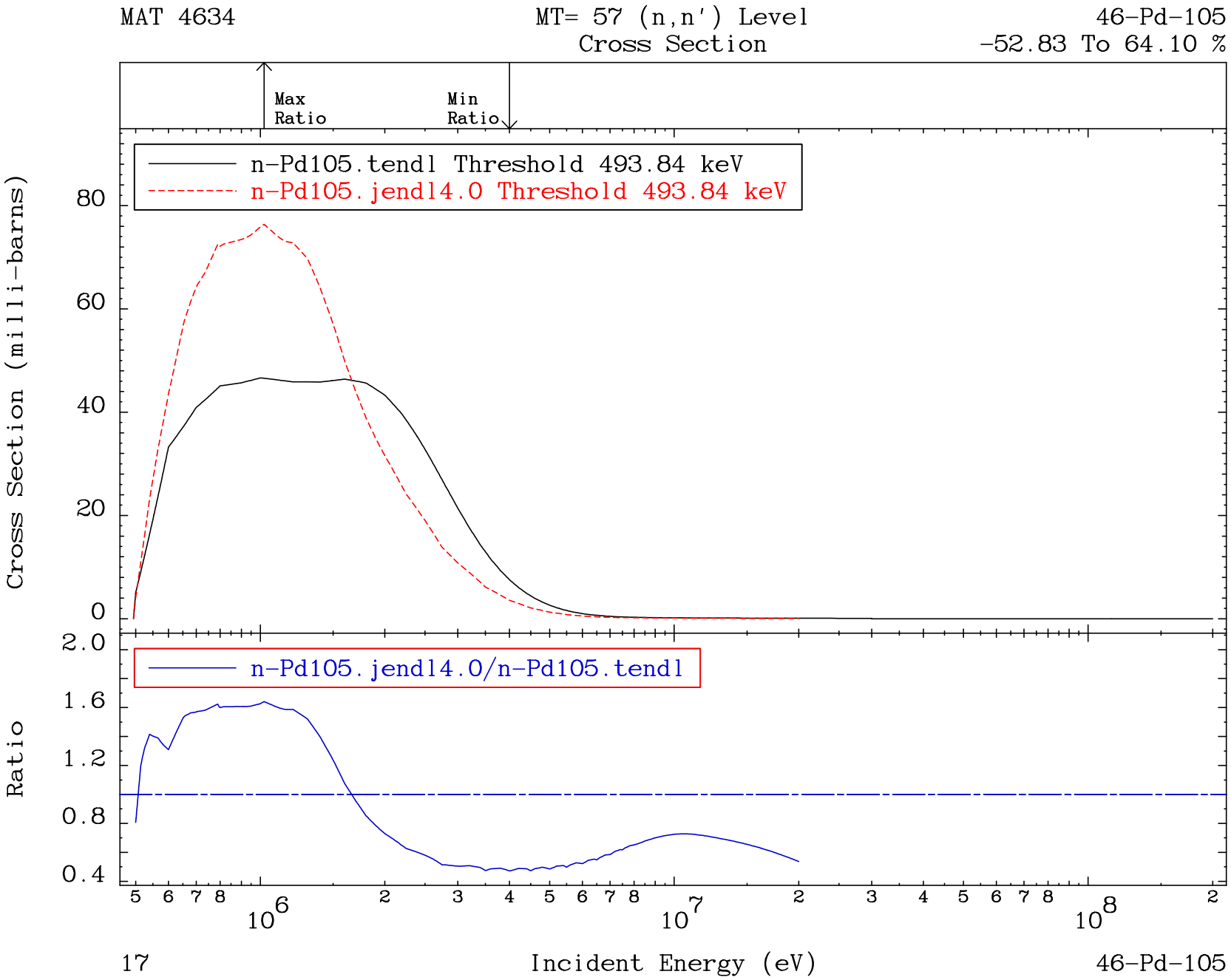

MAT 4634
MT= 52 (n,n') Level
Cross Section
46-Pd-105
-37.24 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 309.20 keV
n-Pd105.jendl4.0 Threshold 309.20 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
46-Pd-105

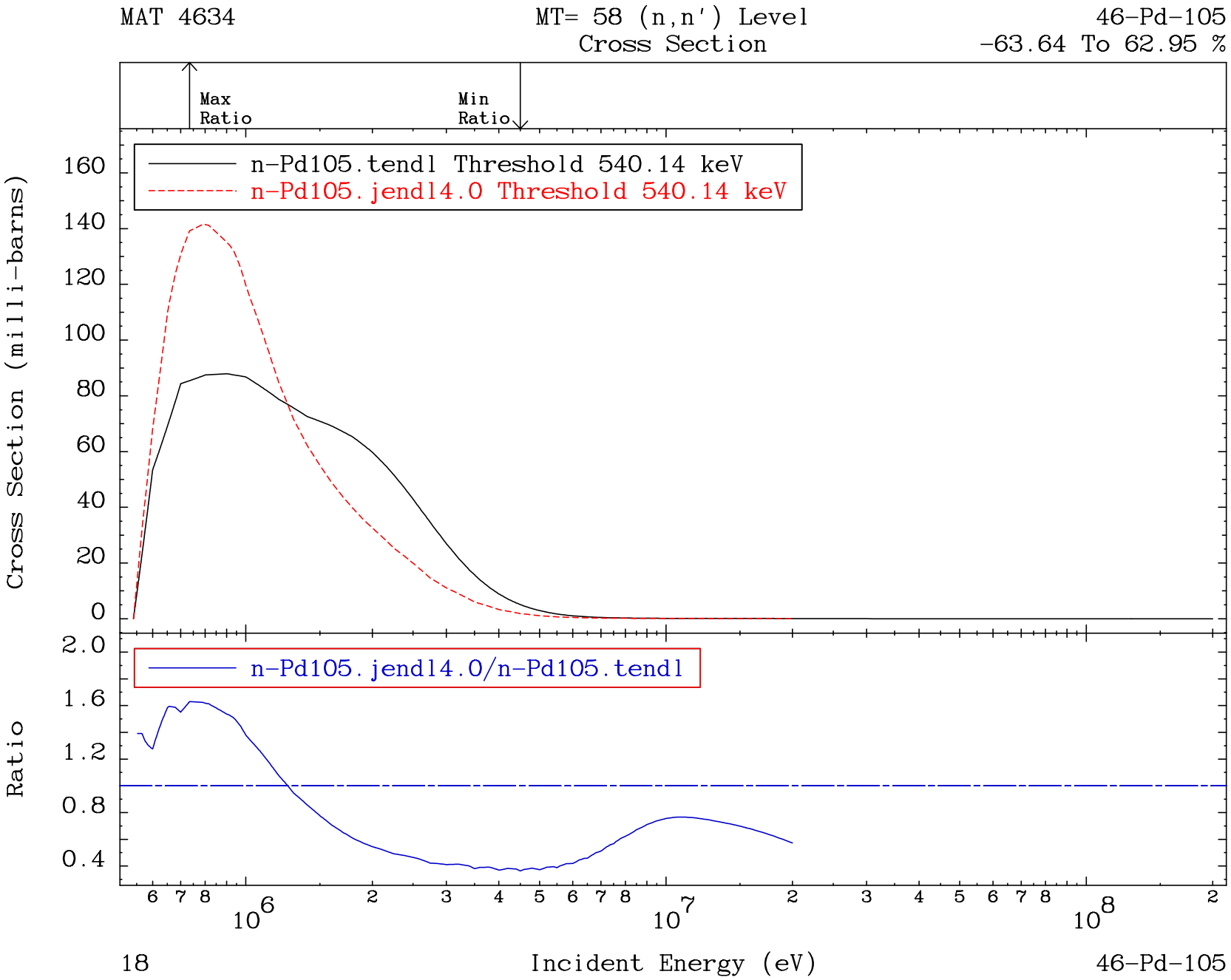

MAT 4634
MT= 53 (n,n') Level
Cross Section
46-Pd-105
-78.80 To -13.24%
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 322.29 keV
n-Pd105.jendl4.0 Threshold 322.29 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.0
0.8
0.6
0.4
0.2
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
46-Pd-105

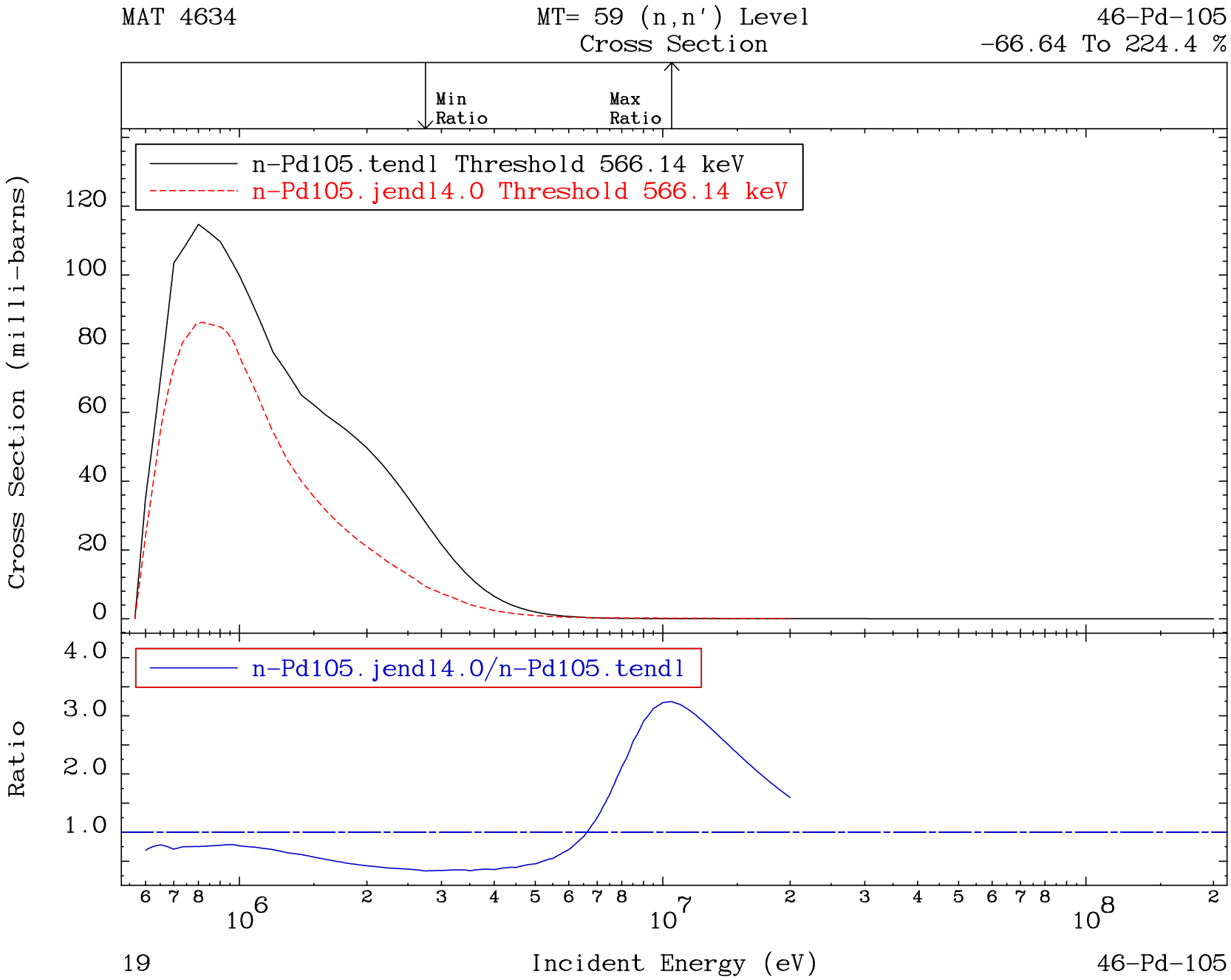

MAT 4634
MT= 54 (n,n') Level
Cross Section
46-Pd-105
-48.68 To 350.6 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 347.82 keV
n-Pd105.jendl4.0 Threshold 347.82 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
4
2
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
46-Pd-105

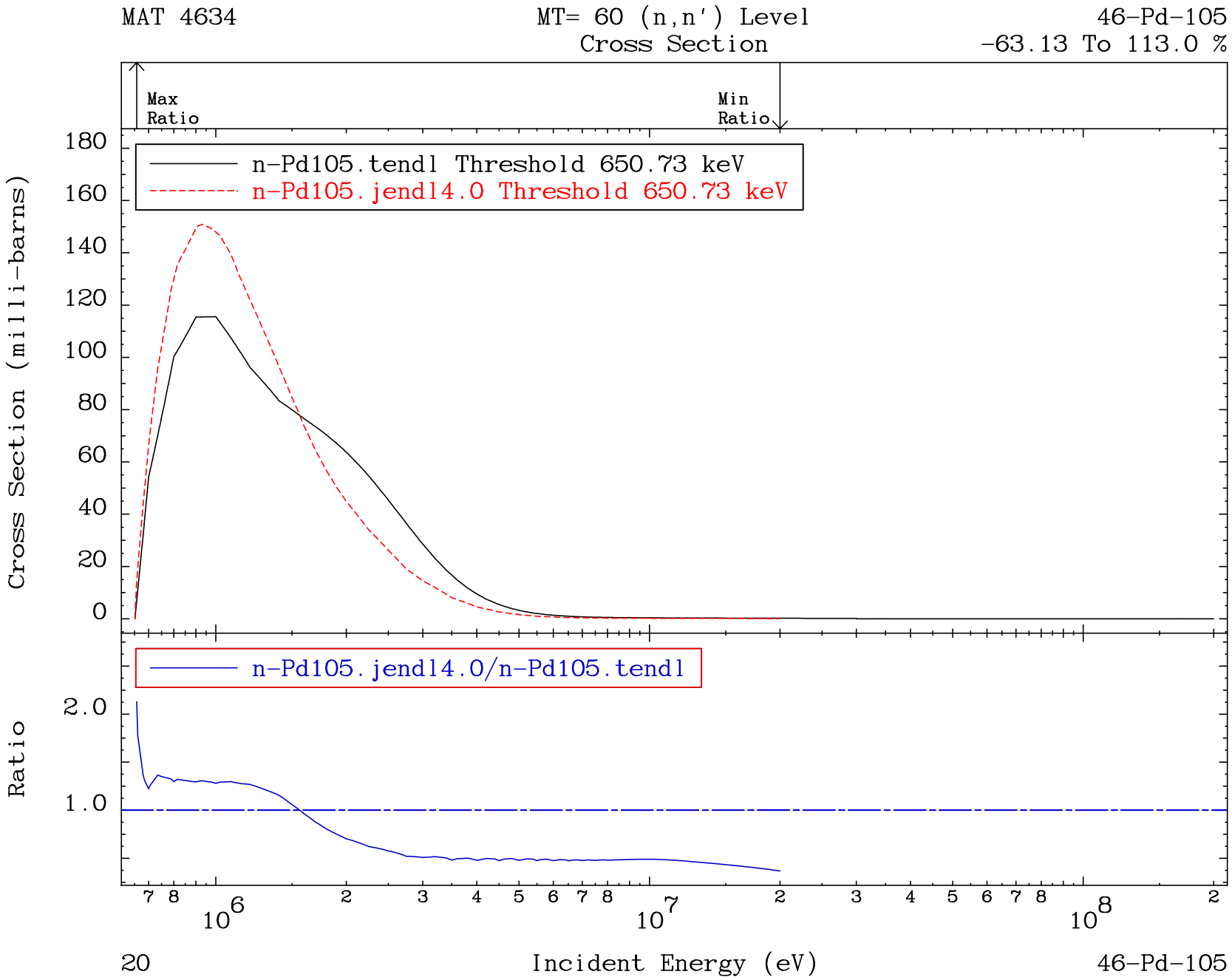

MAT 4634
MT= 55 (n,n') Level
Cross Section
46-Pd-105
-63.88 To 141.2 %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 446.63 keV
n-Pd105.jendl4.0 Threshold 446.63 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
3.0
2.0
1.0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
46-Pd-105

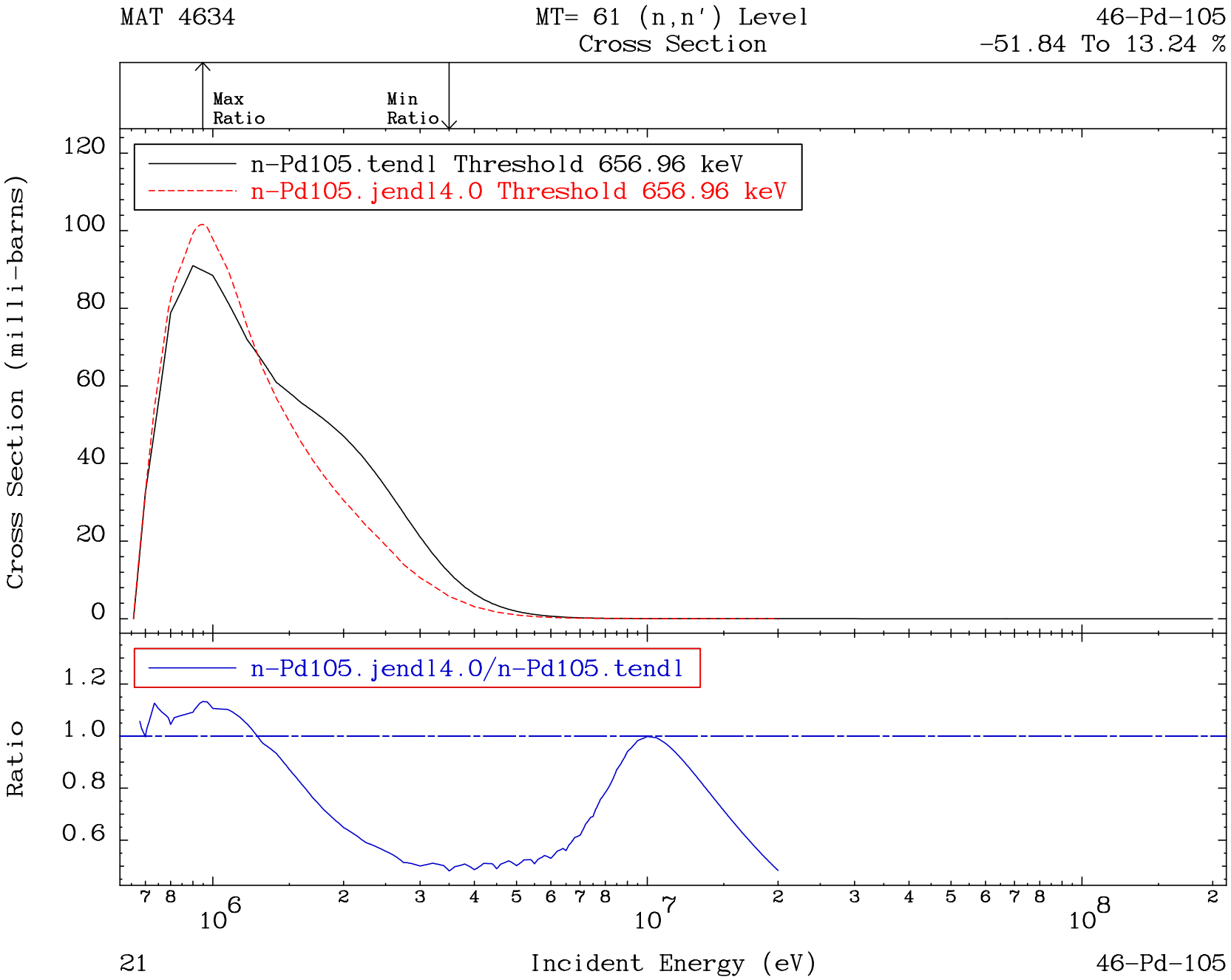

MAT 4634
MT= 56 (n,n') Level
Cross Section
46-Pd-105
-37.19 To 102.2 %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 451.30 keV
n-Pd105.jendl4.0 Threshold 451.30 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.4
1.8
1.2
0.6
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
46-Pd-105

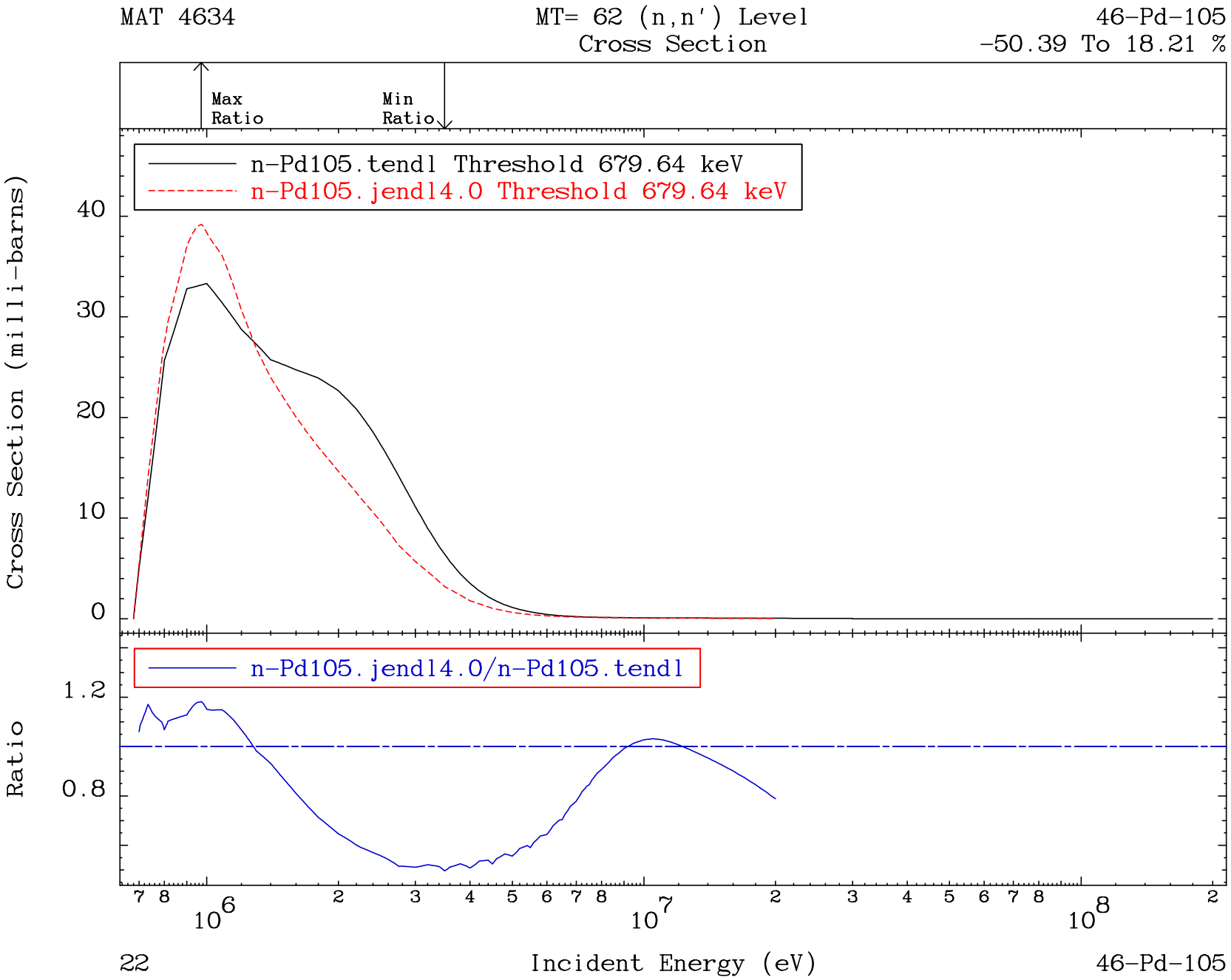

MAT 4634
MT= 57 (n,n') Level
Cross Section
46-Pd-105
-52.83 To 64.10 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 493.84 keV
n-Pd105.jendl4.0 Threshold 493.84 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
46-Pd-105

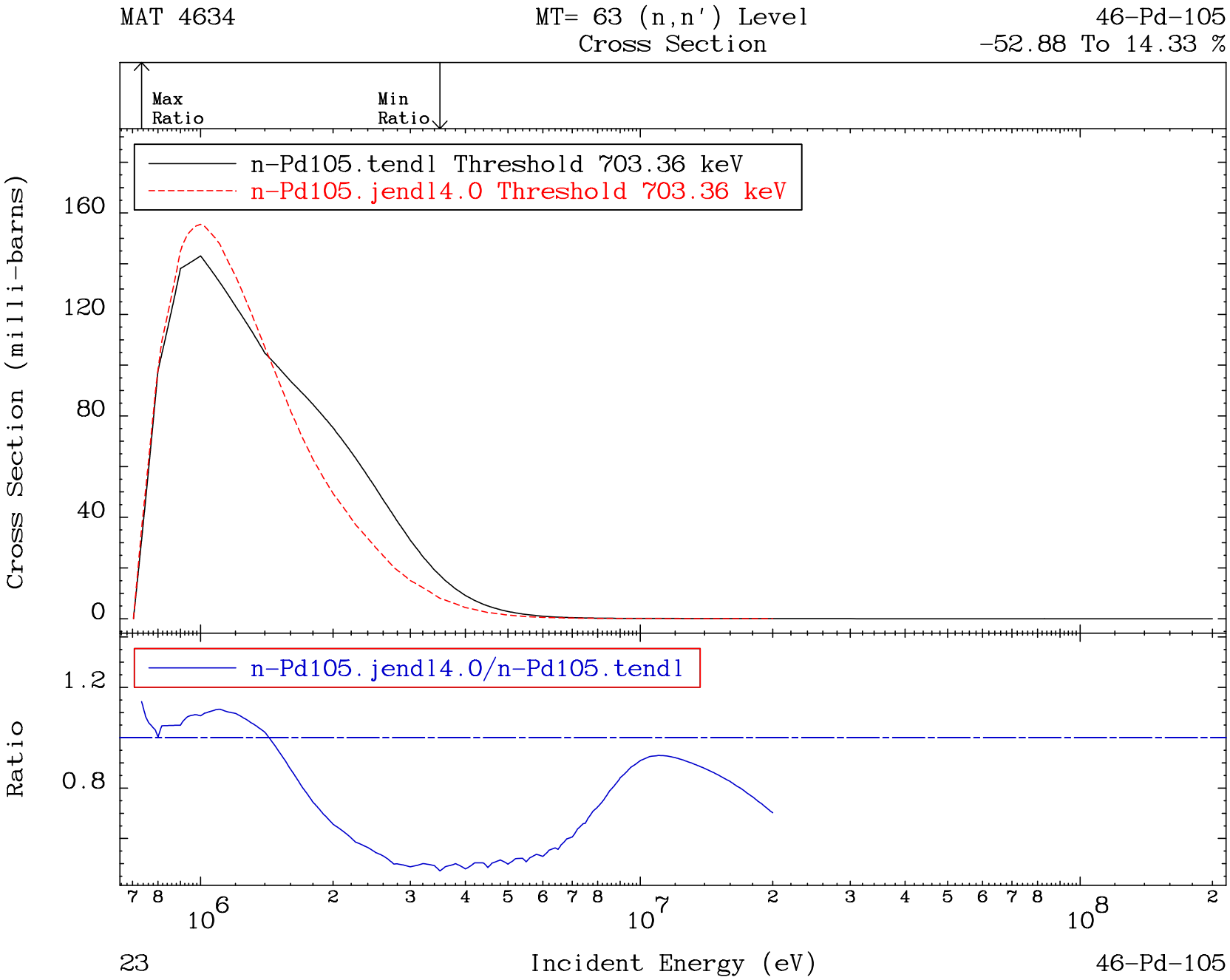

MAT 4634
MT= 58 (n,n') Level
Cross Section
46-Pd-105
-63.64 To 62.95 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 540.14 keV
n-Pd105.jendl4.0 Threshold 540.14 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.6
1.2
0.8
0.4
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
46-Pd-105

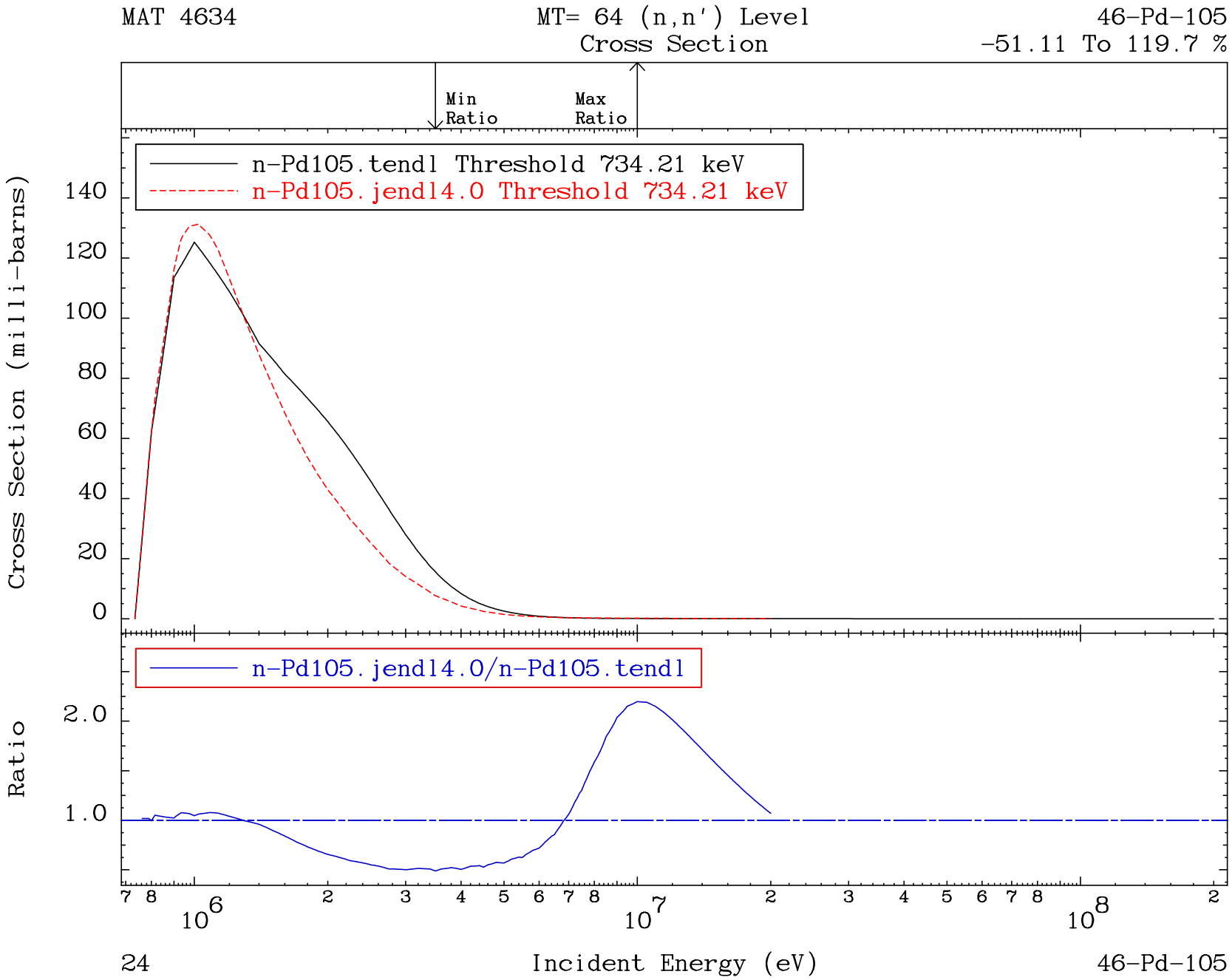

MAT 4634
MT= 59 (n,n') Level
Cross Section
46-Pd-105
-66.64 To 224.4 %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 566.14 keV
n-Pd105.jendl4.0 Threshold 566.14 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
4.0
3.0
2.0
1.0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
46-Pd-105

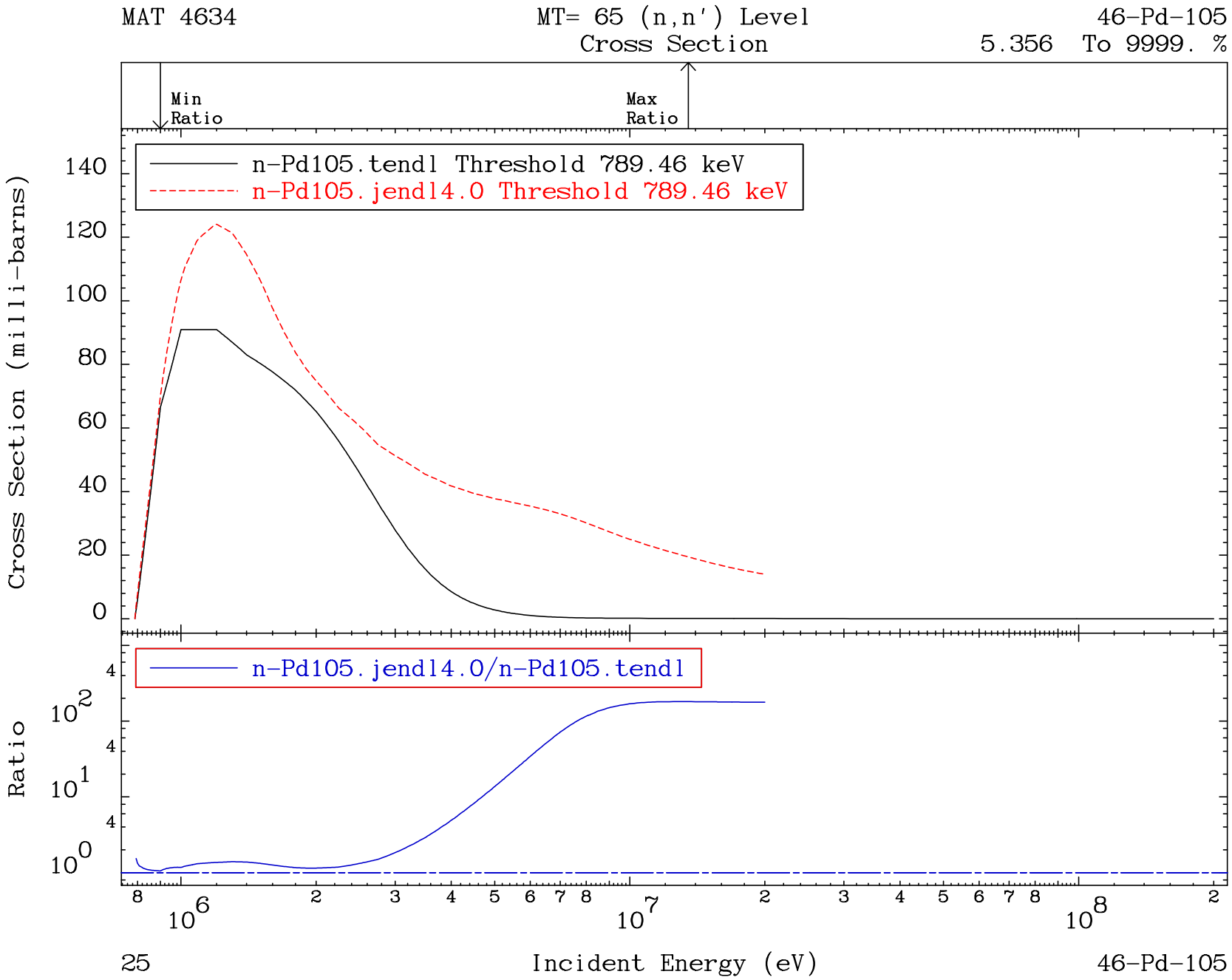

MAT 4634
MT= 60 (n,n') Level
Cross Section
46-Pd-105
-63.13 To 113.0 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 650.73 keV
n-Pd105.jendl4.0 Threshold 650.73 keV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
46-Pd-105

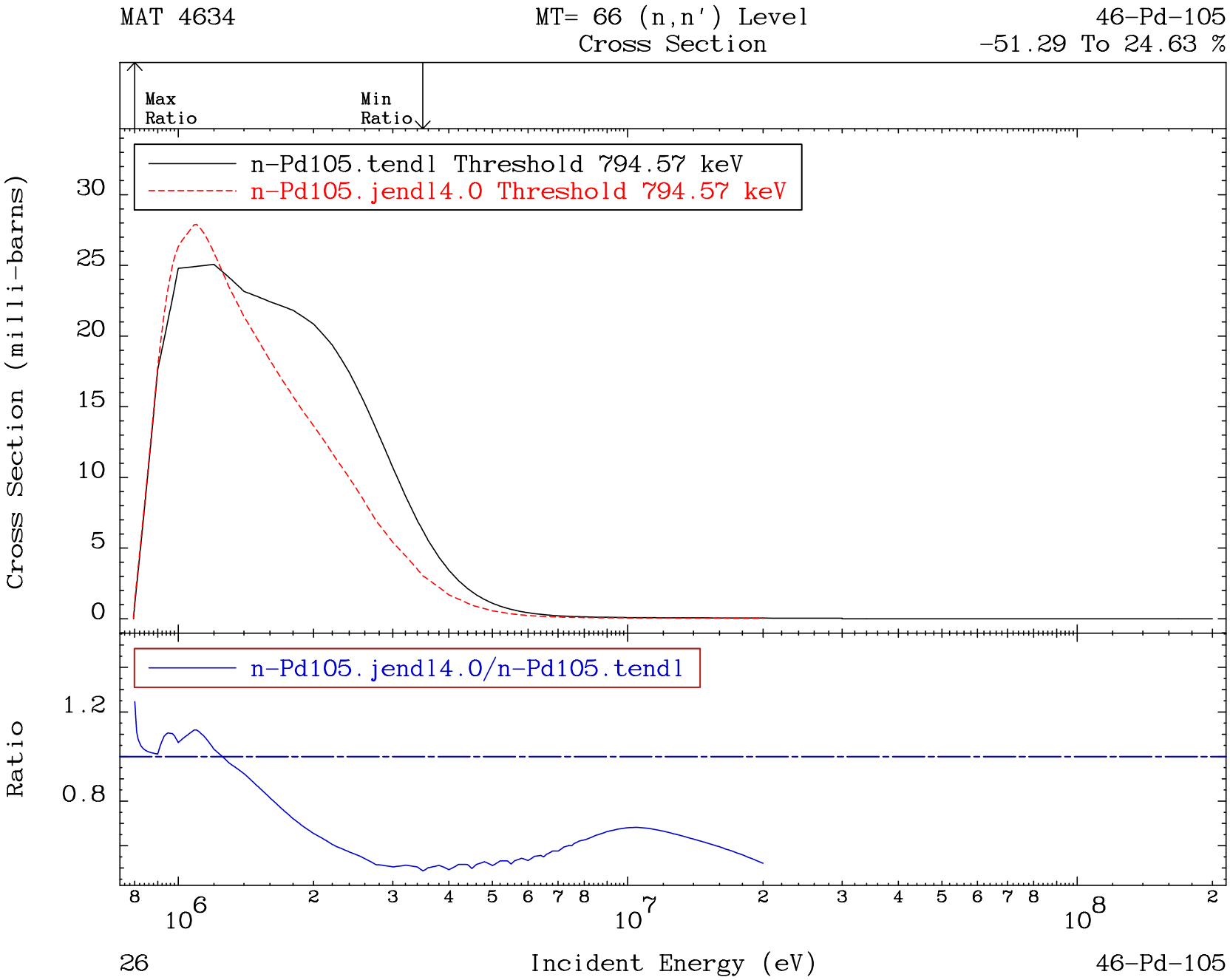

MAT 4634
MT= 61 (n,n') Level
Cross Section
46-Pd-105
-51.84 To 13.24 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 656.96 keV
n-Pd105.jendl4.0 Threshold 656.96 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
1.0
0.8
0.6
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
46-Pd-105

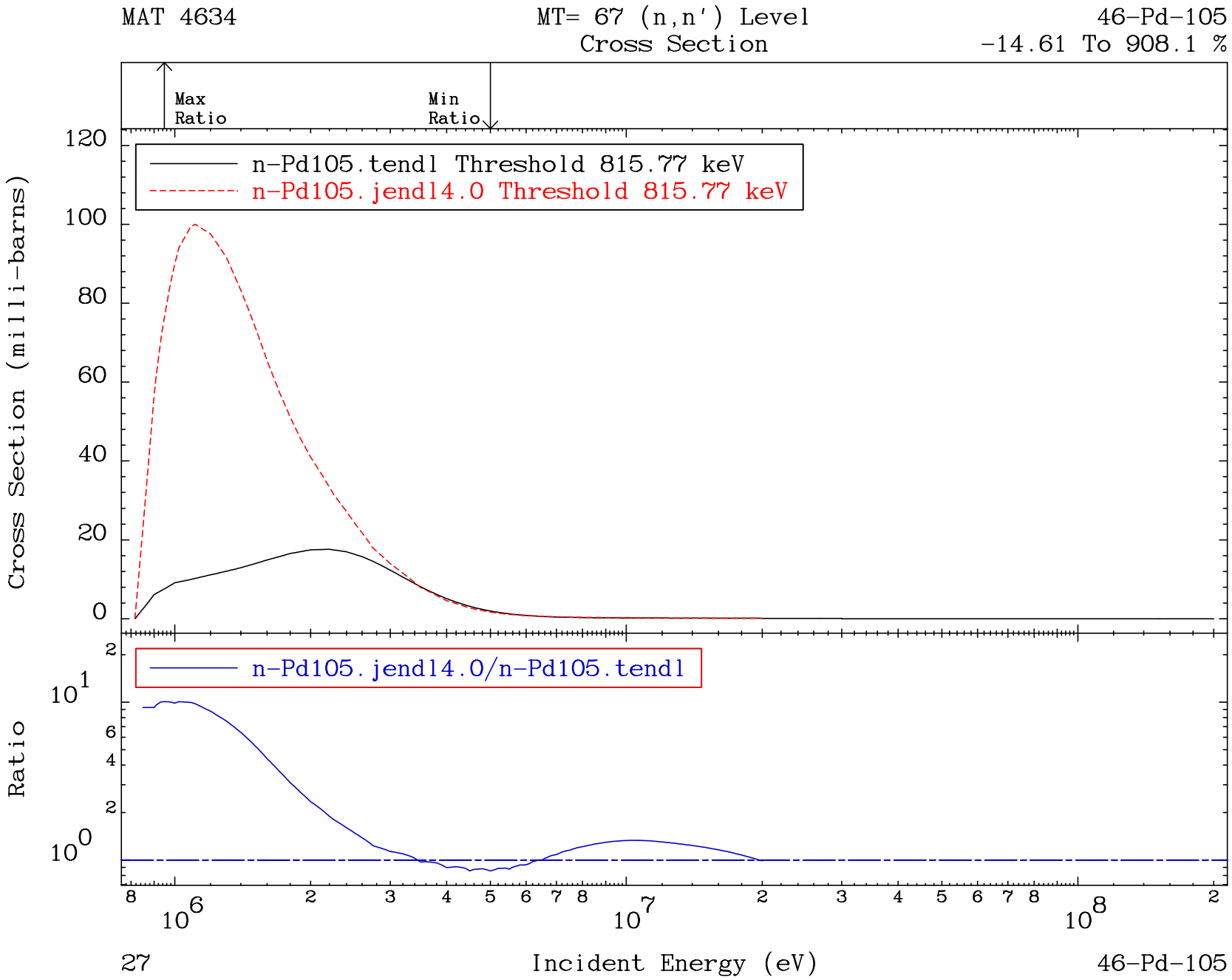

MAT 4634
MT= 62 (n,n') Level
Cross Section
46-Pd-105
-50.39 To 18.21 %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 679.64 keV
n-Pd105.jendl4.0 Threshold 679.64 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
0.8
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
46-Pd-105

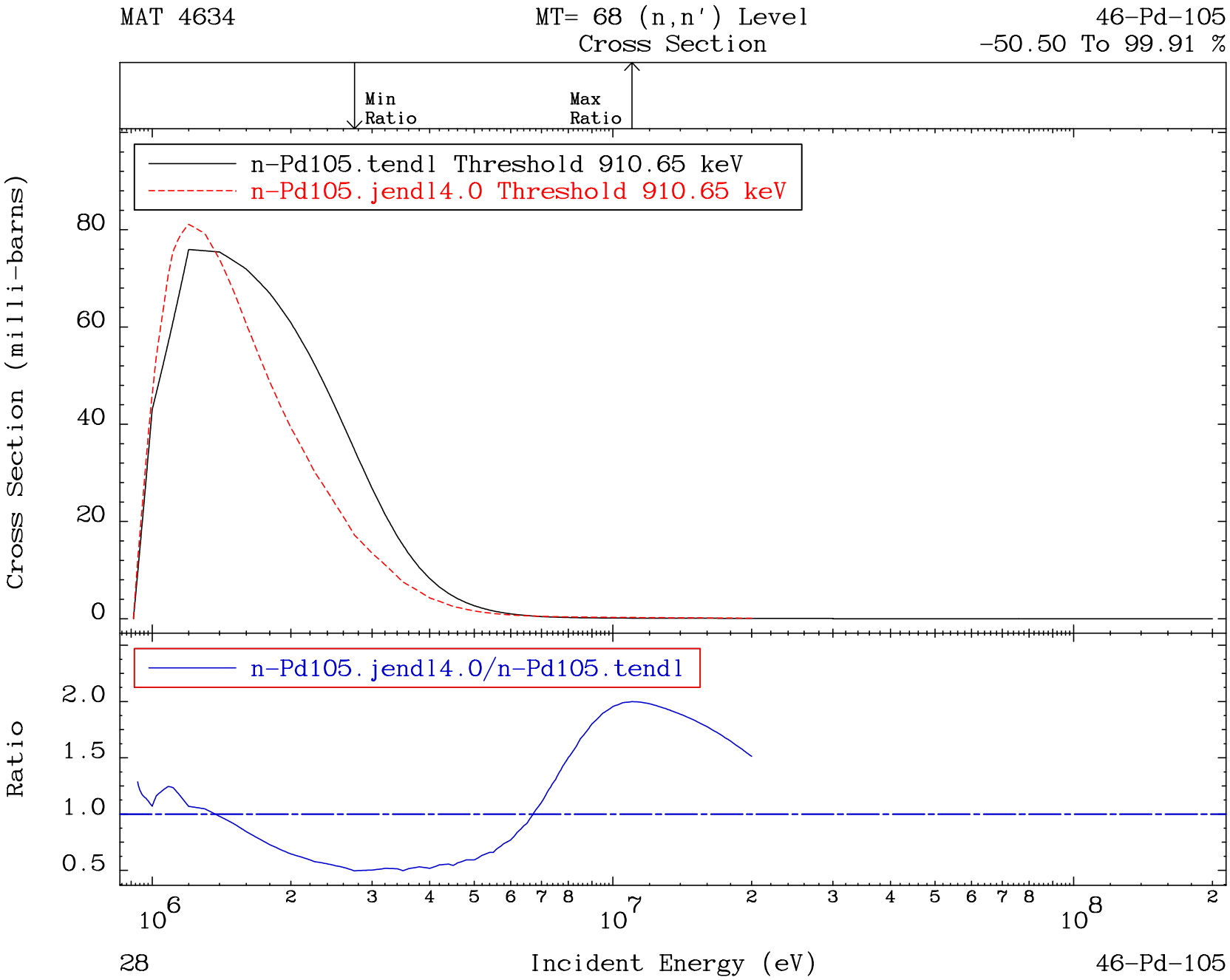

MAT 4634
MT= 63 (n,n') Level
Cross Section
46-Pd-105
-52.88 To 14.33 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 703.36 keV
n-Pd105.jendl4.0 Threshold 703.36 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
0.8
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
46-Pd-105

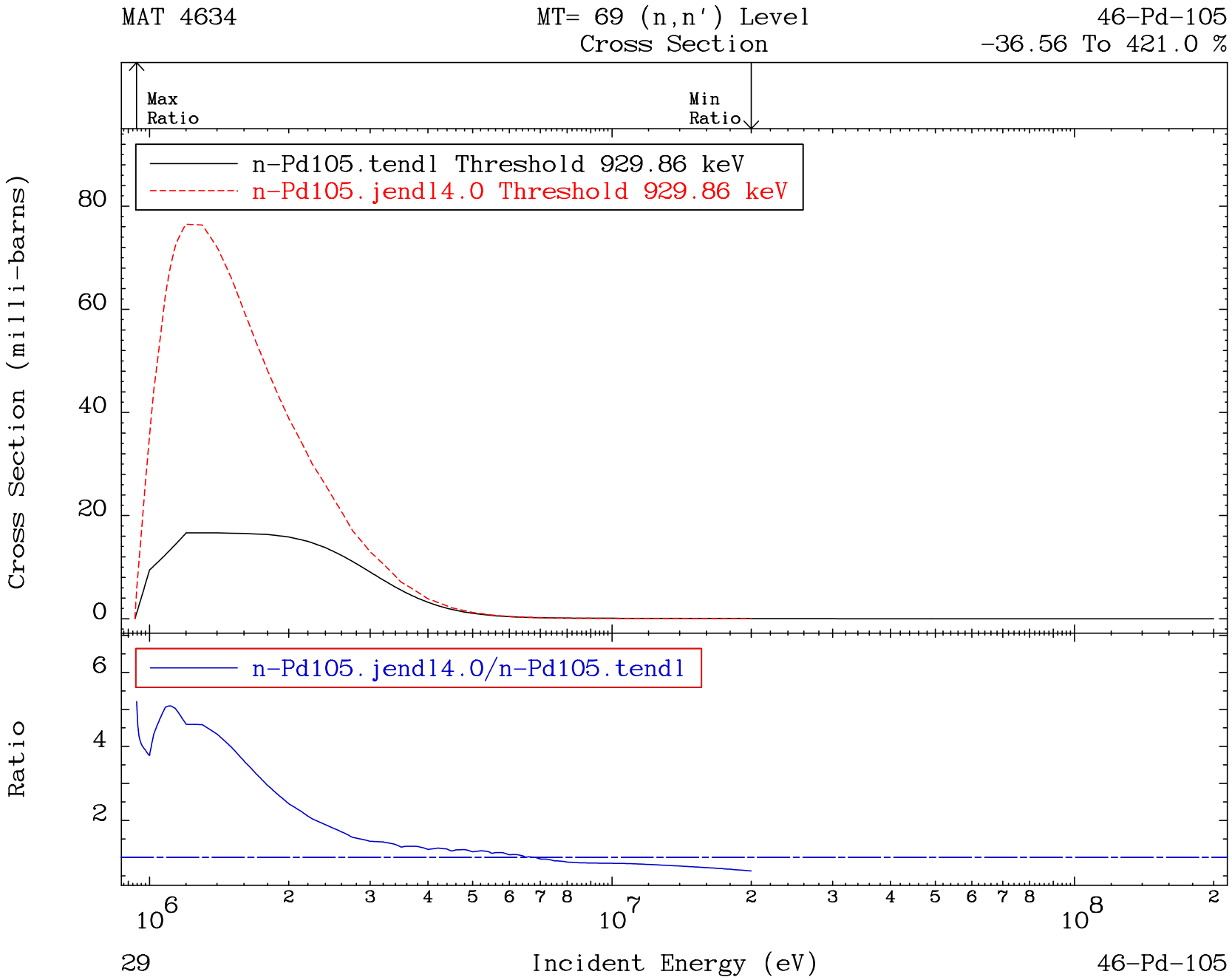

MAT 4634
MT= 64 (n,n') Level
Cross Section
46-Pd-105
-51.11 To 119.7 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 734.21 keV
n-Pd105.jendl4.0 Threshold 734.21 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
46-Pd-105

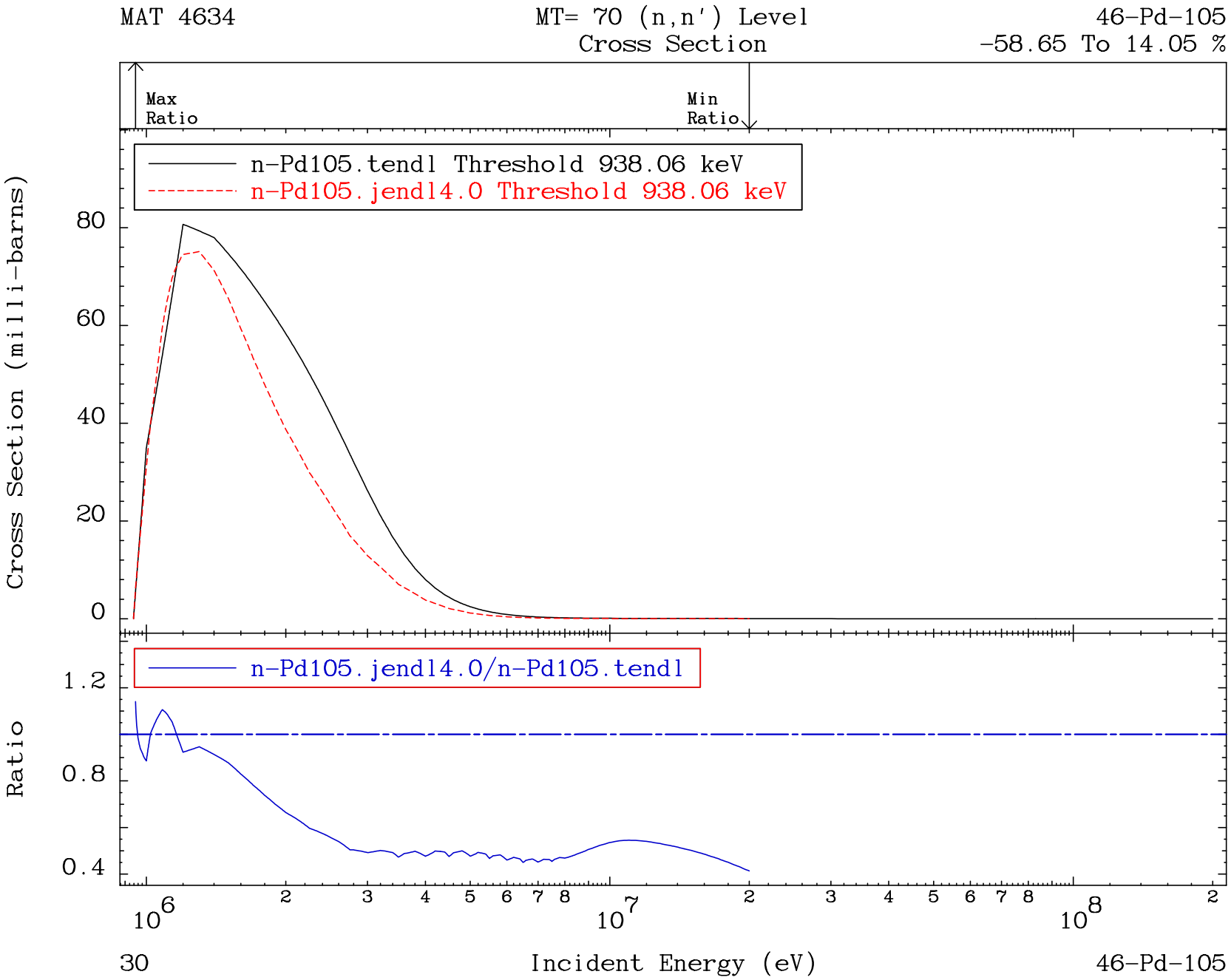

MAT 4634
MT= 65 (n,n') Level
Cross Section
46-Pd-105
5.356 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 789.46 keV
n-Pd105.jendl4.0 Threshold 789.46 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^2
10^1
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
46-Pd-105

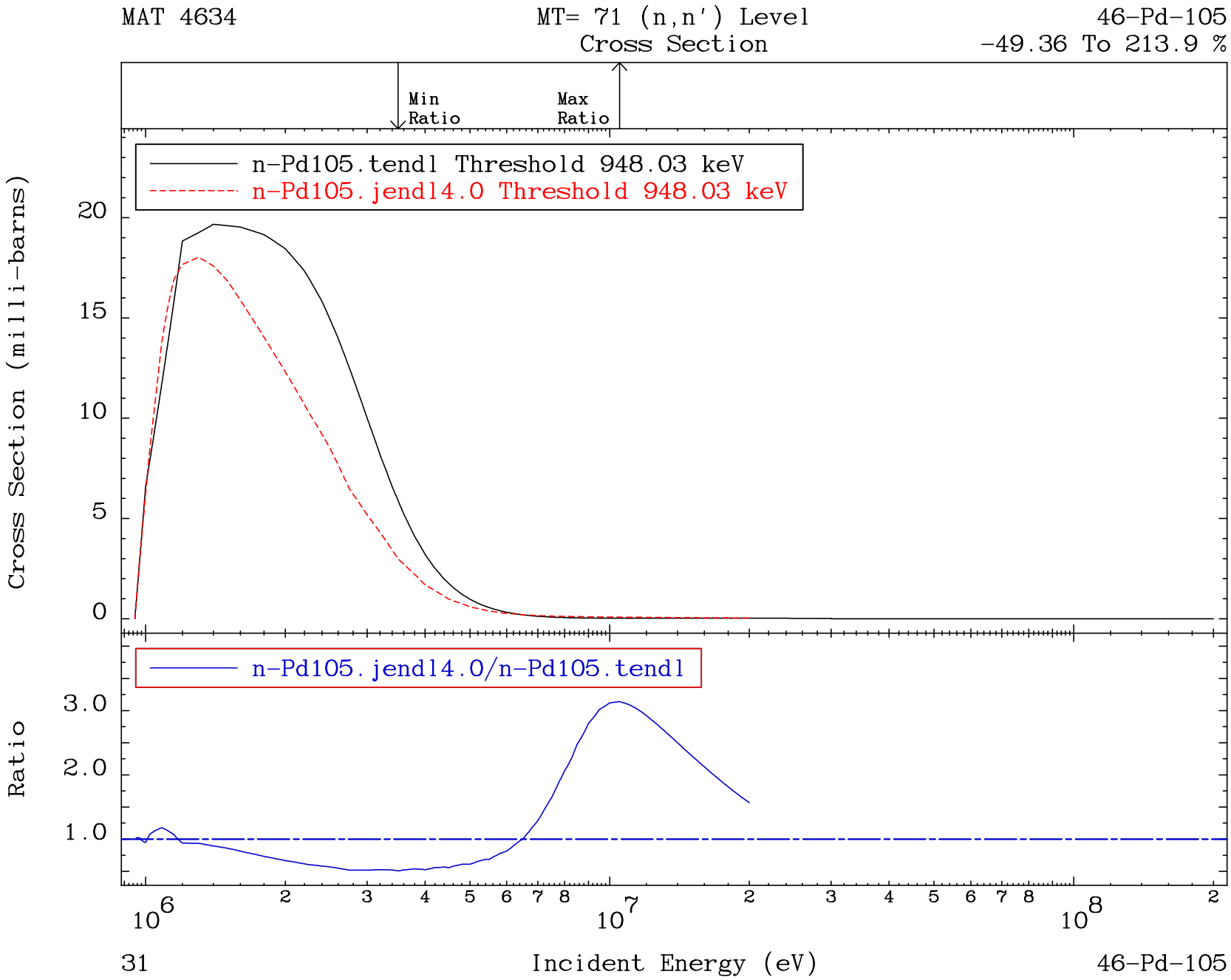

MAT 4634
MT= 66 (n,n') Level
Cross Section
46-Pd-105
-51.29 To 24.63 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 794.57 keV
n-Pd105.jendl4.0 Threshold 794.57 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
0.8
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
46-Pd-105

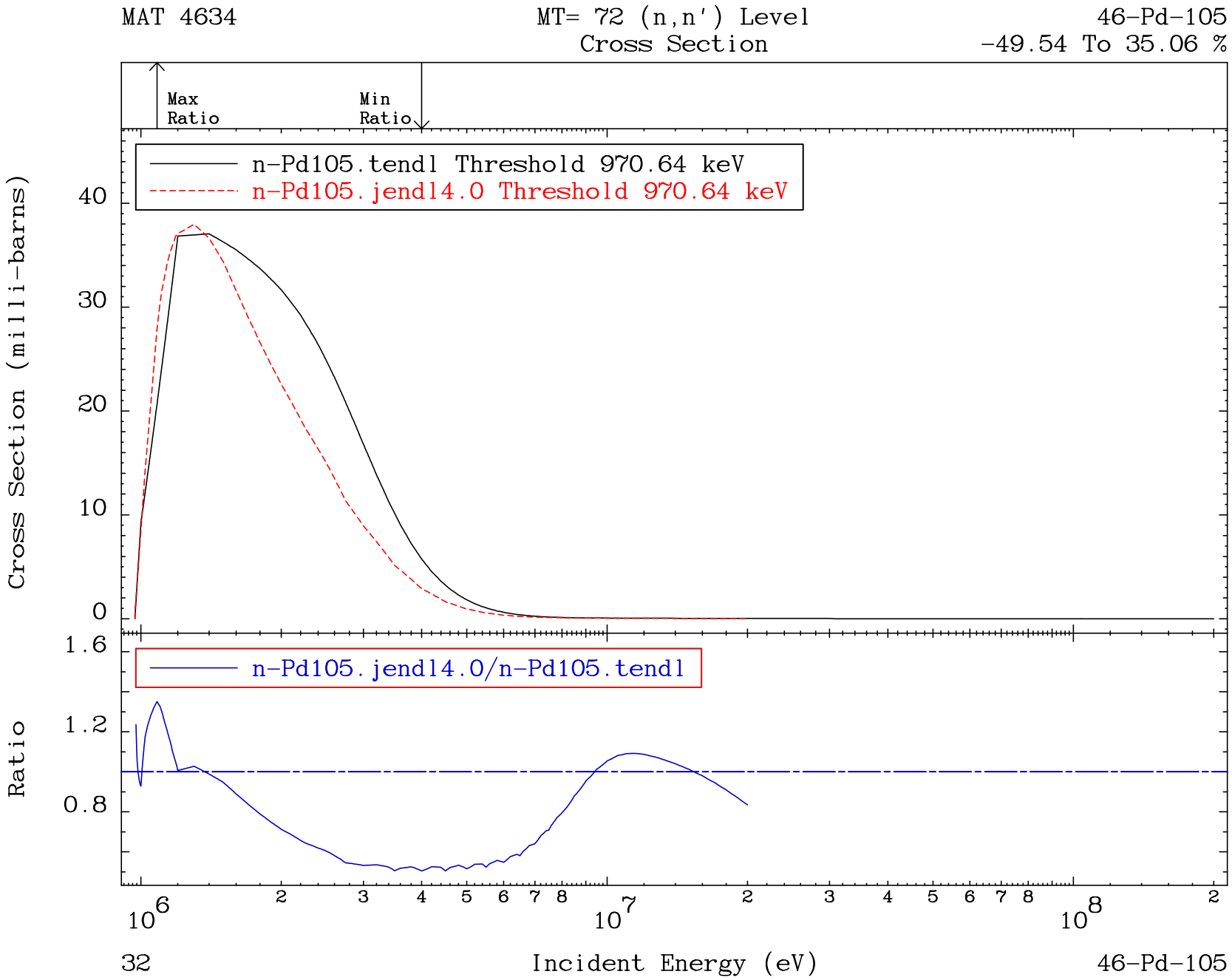

MAT 4634
MT= 67 (n,n') Level
Cross Section
46-Pd-105
-14.61 To 908.1 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 815.77 keV
n-Pd105.jendl4.0 Threshold 815.77 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2
10^1
6
4
2
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
46-Pd-105

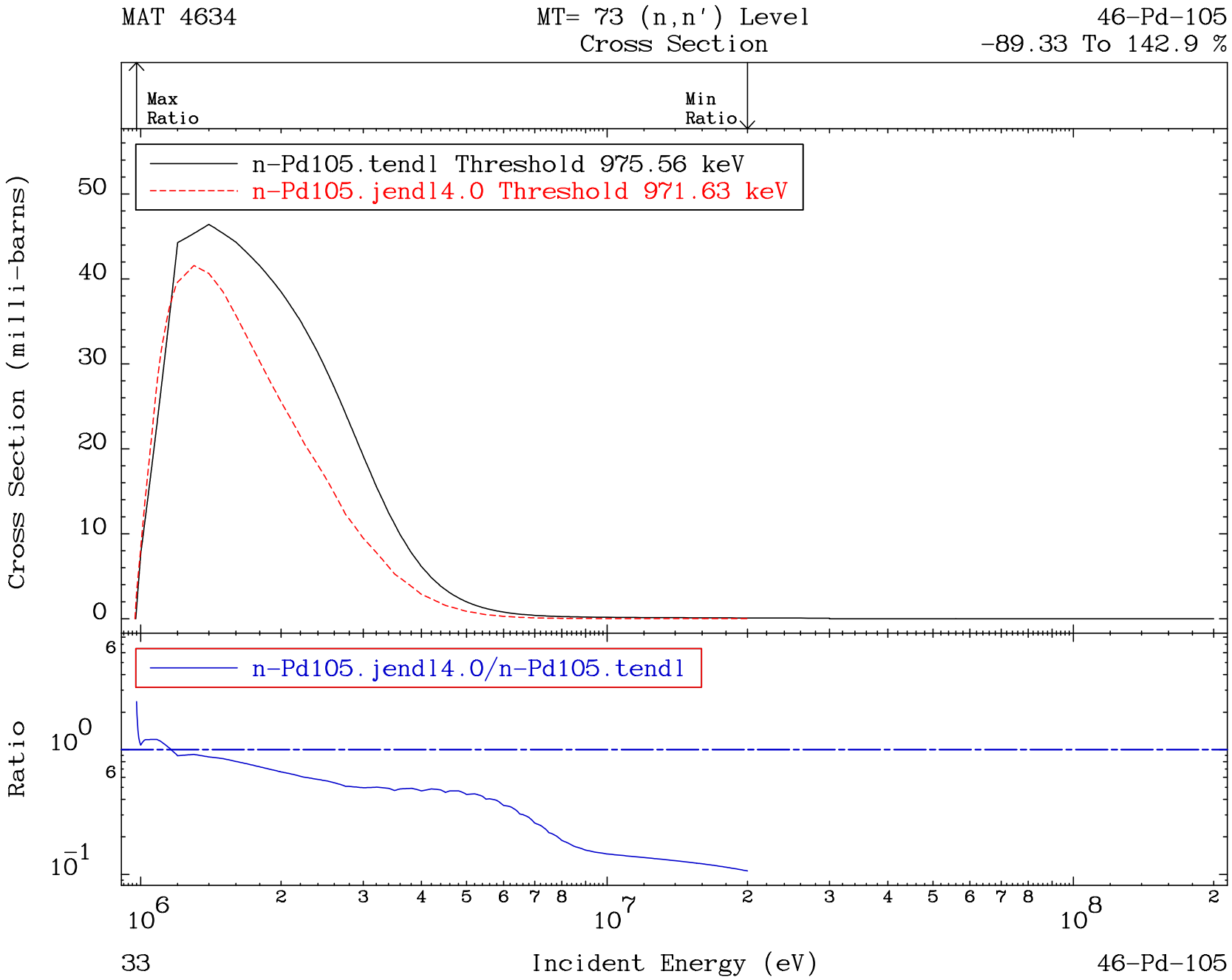

MAT 4634
MT= 68 (n,n') Level
Cross Section
46-Pd-105
-50.50 To 99.91 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 910.65 keV
n-Pd105.jendl4.0 Threshold 910.65 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.5
1.0
0.5
10^6
10^7
10^8
28
Incident Energy (eV)
46-Pd-105

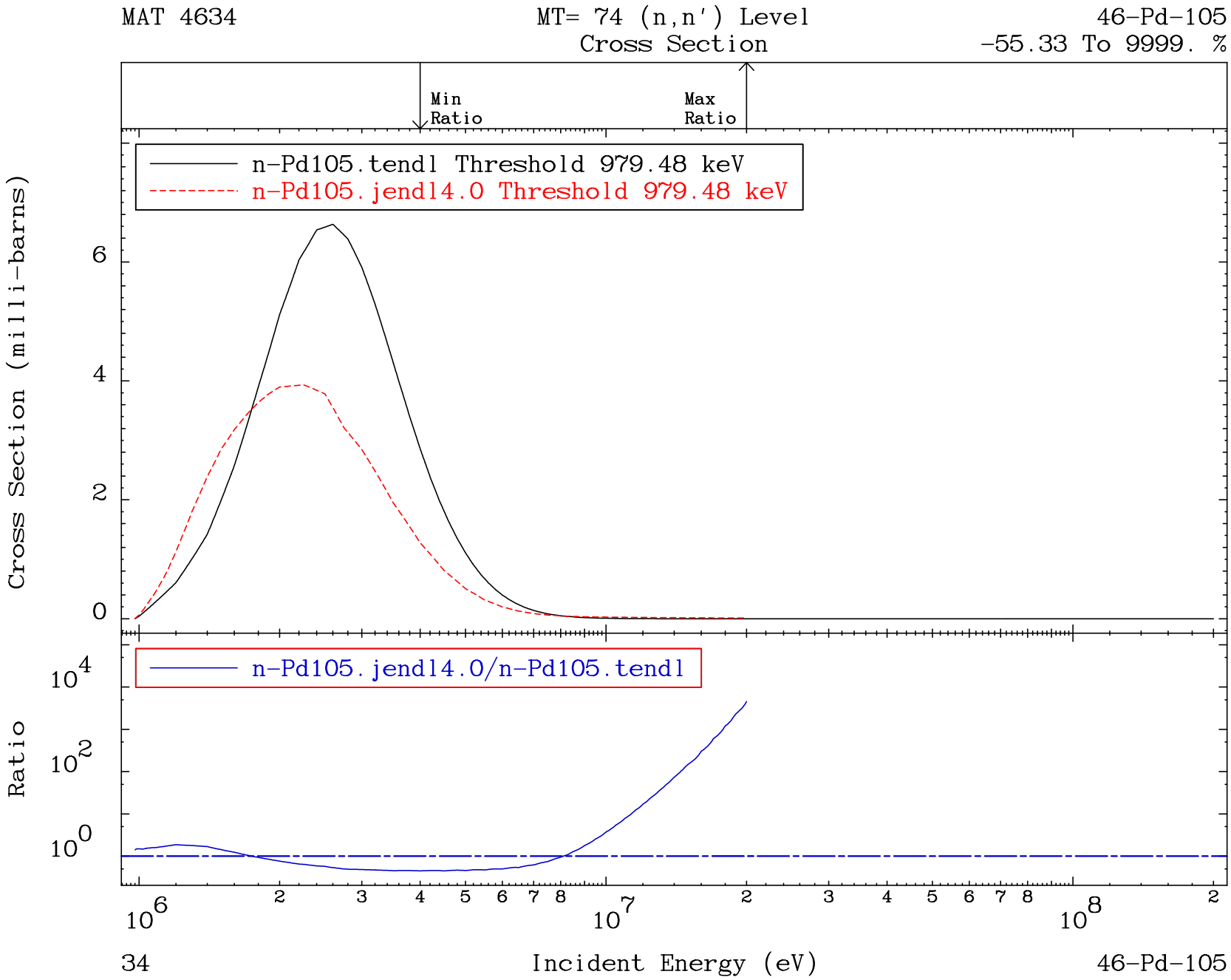

MAT 4634
MT= 69 (n,n') Level
Cross Section
46-Pd-105
-36.56 To 421.0 %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 929.86 keV
n-Pd105.jendl4.0 Threshold 929.86 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
6
4
2
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
46-Pd-105

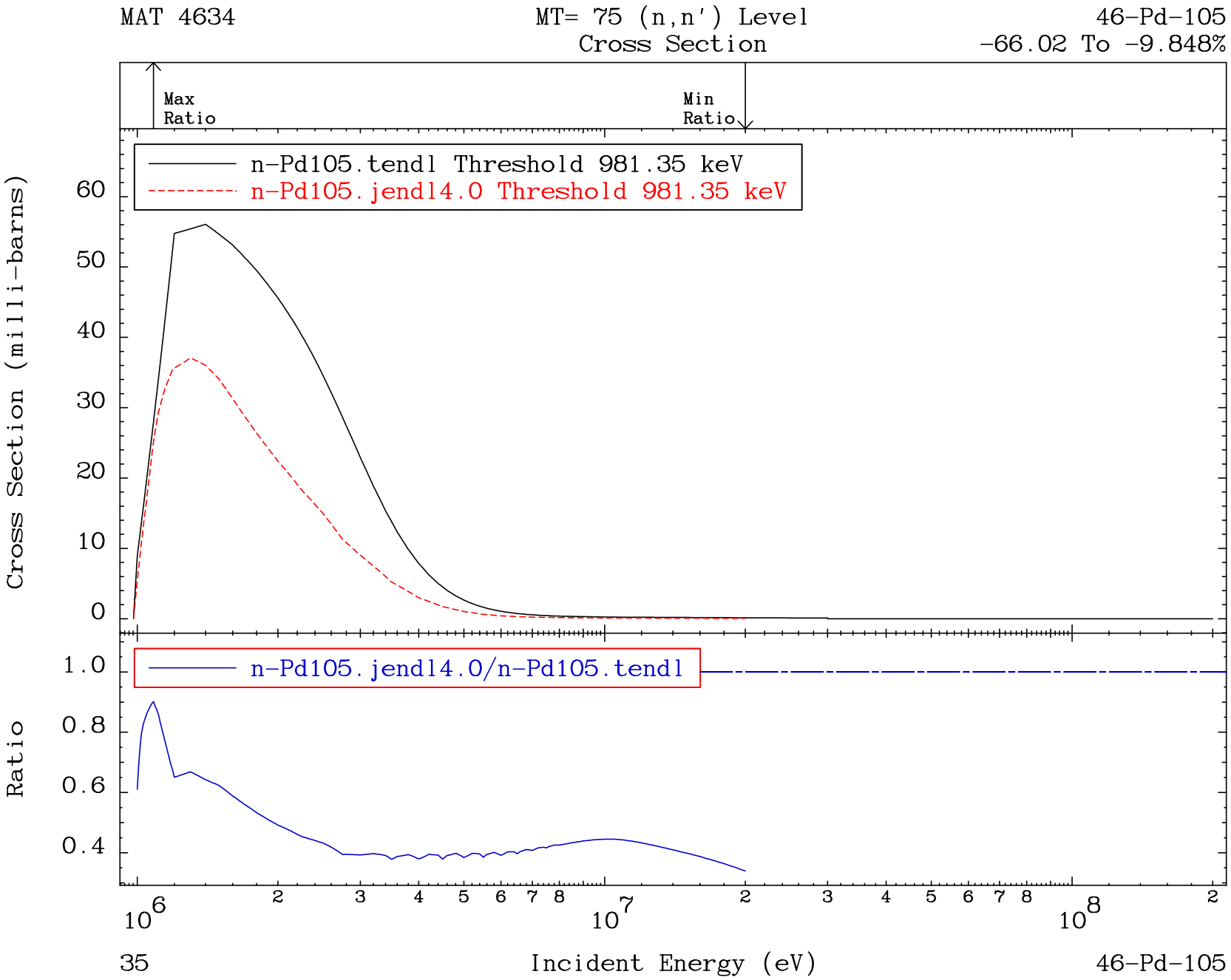

MAT 4634
MT= 70 (n,n') Level
Cross Section
46-Pd-105
-58.65 To 14.05 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 938.06 keV
n-Pd105.jendl4.0 Threshold 938.06 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.2
0.8
0.4
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
46-Pd-105

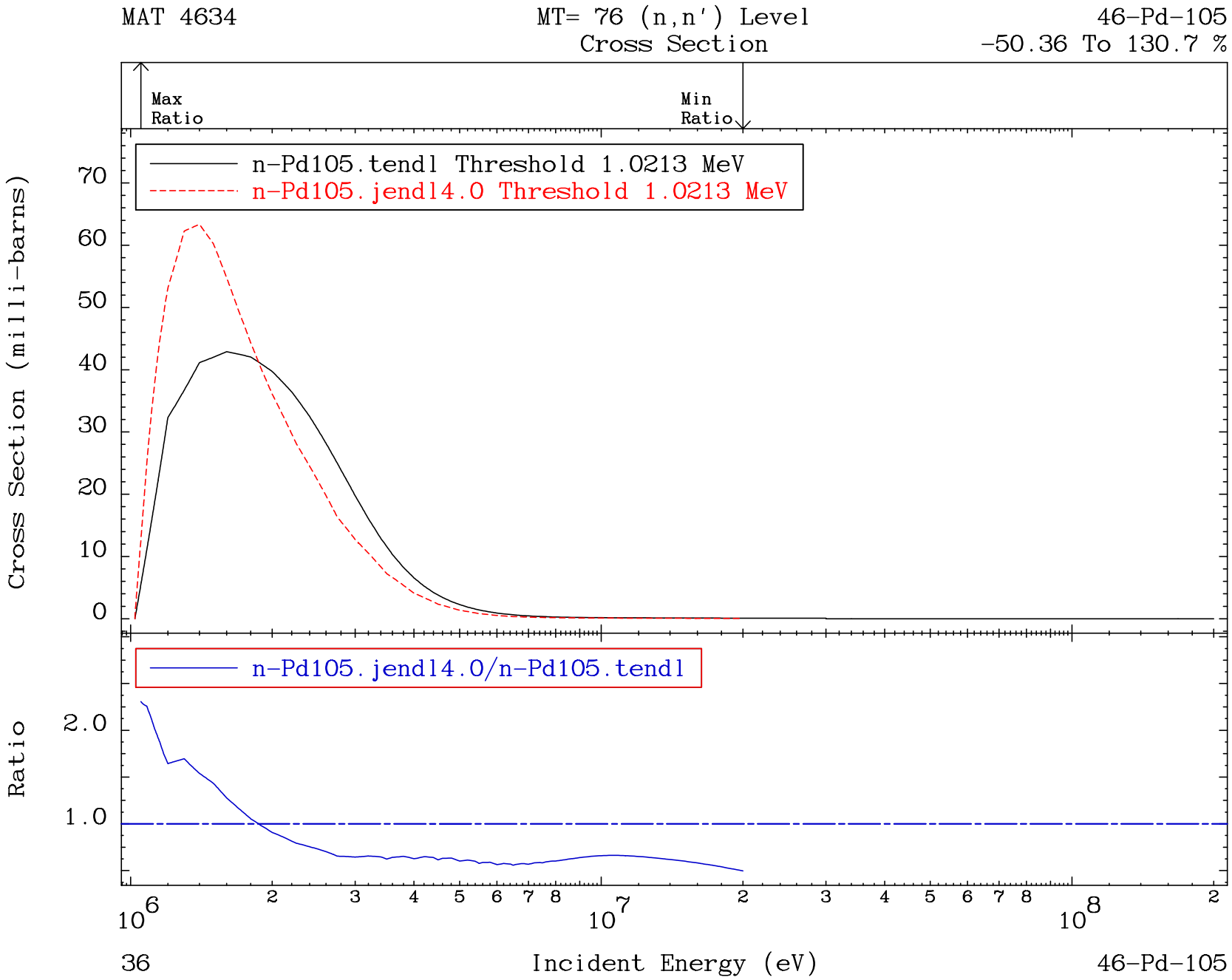

MAT 4634
MT= 71 (n,n') Level
Cross Section
46-Pd-105
-49.36 To 213.9 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 948.03 keV
n-Pd105.jendl4.0 Threshold 948.03 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
3.0
2.0
1.0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
46-Pd-105

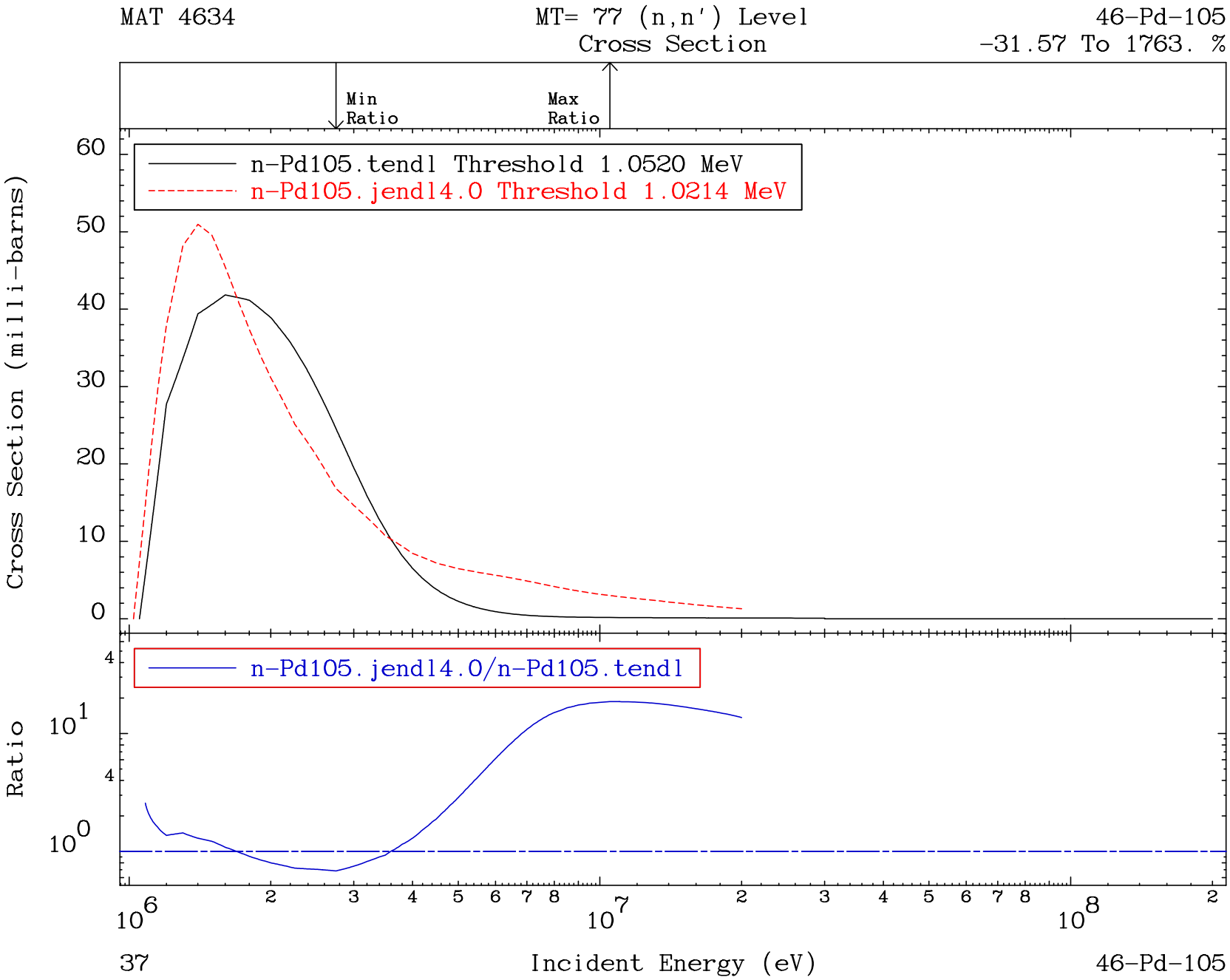

MAT 4634
MT= 72 (n,n') Level
Cross Section
46-Pd-105
-49.54 To 35.06 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 970.64 keV
n-Pd105.jendl4.0 Threshold 970.64 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.6
1.2
0.8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
46-Pd-105

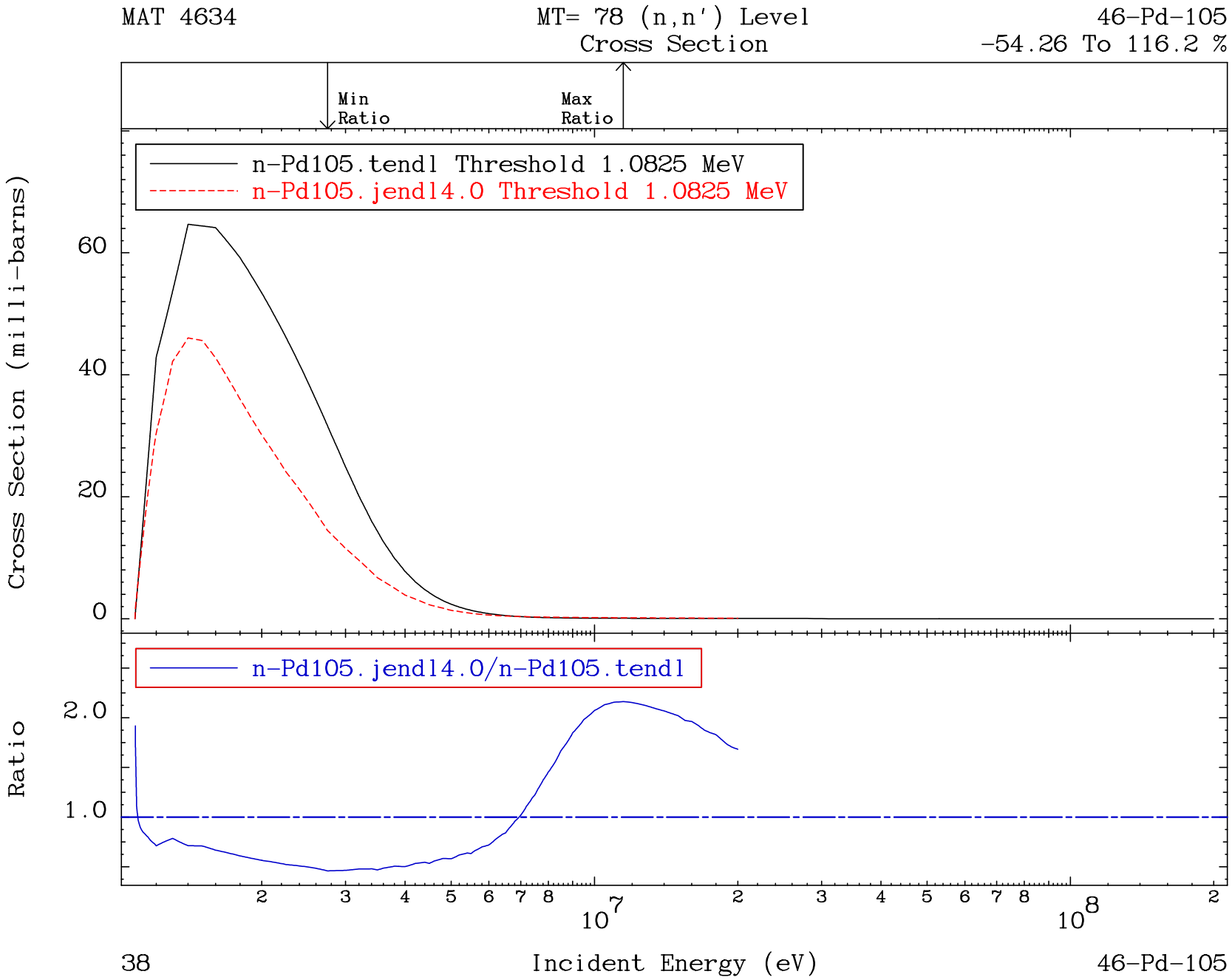

MAT 4634
MT= 73 (n,n') Level
Cross Section
46-Pd-105
-89.33 To 142.9 %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 975.56 keV
n-Pd105.jendl4.0 Threshold 971.63 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^-1
10^6
10^7
10^8
33
Incident Energy (eV)
46-Pd-105

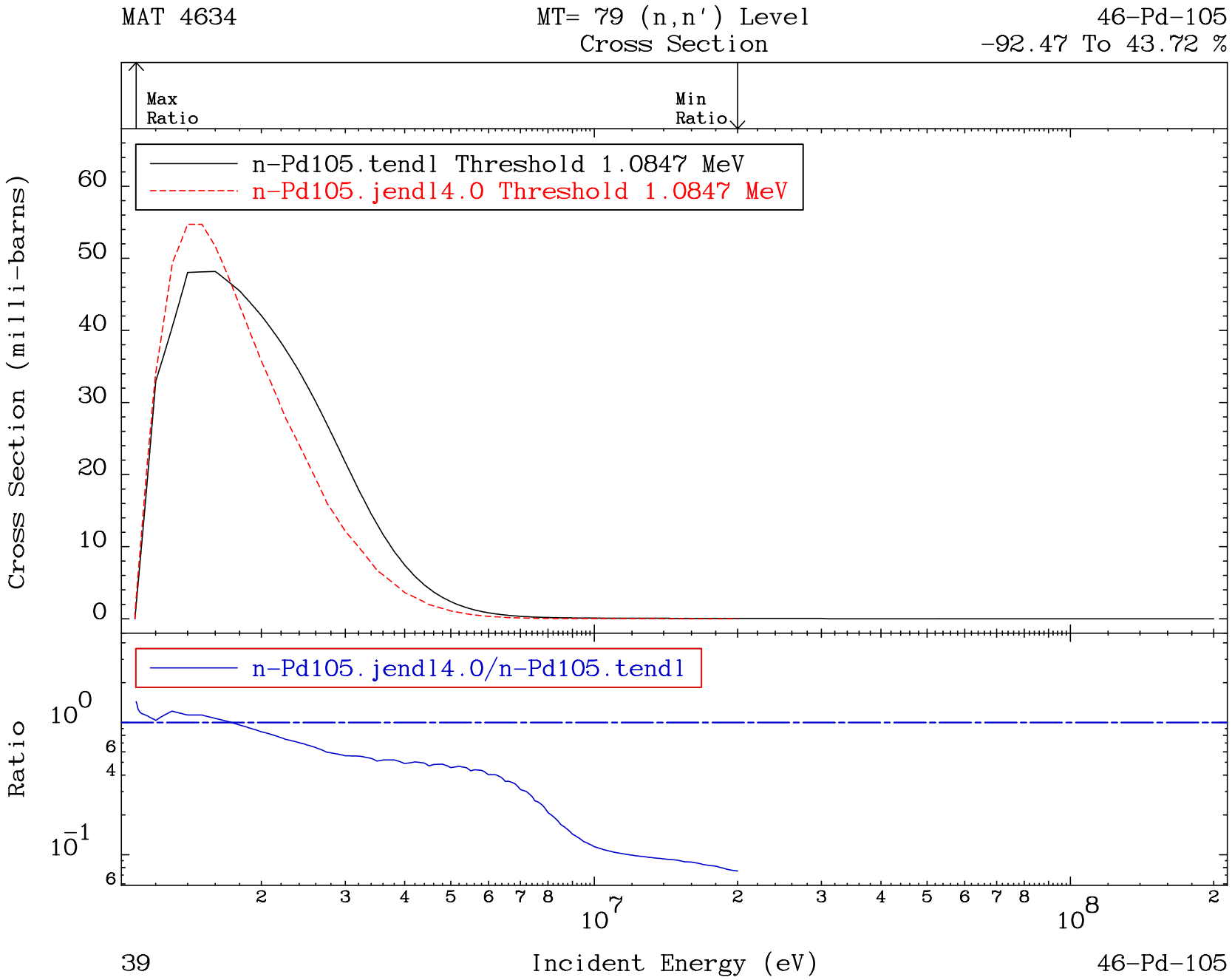

MAT 4634
MT= 74 (n,n') Level
Cross Section
46-Pd-105
-55.33 To 9999. %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 979.48 keV
n-Pd105.jendl4.0 Threshold 979.48 keV
Cross Section (milli-barns)
0
2
4
6
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^2
10^4
10^6
10^7
10^8
2 3 4 5 6 7 8
34
Incident Energy (eV)
46-Pd-105

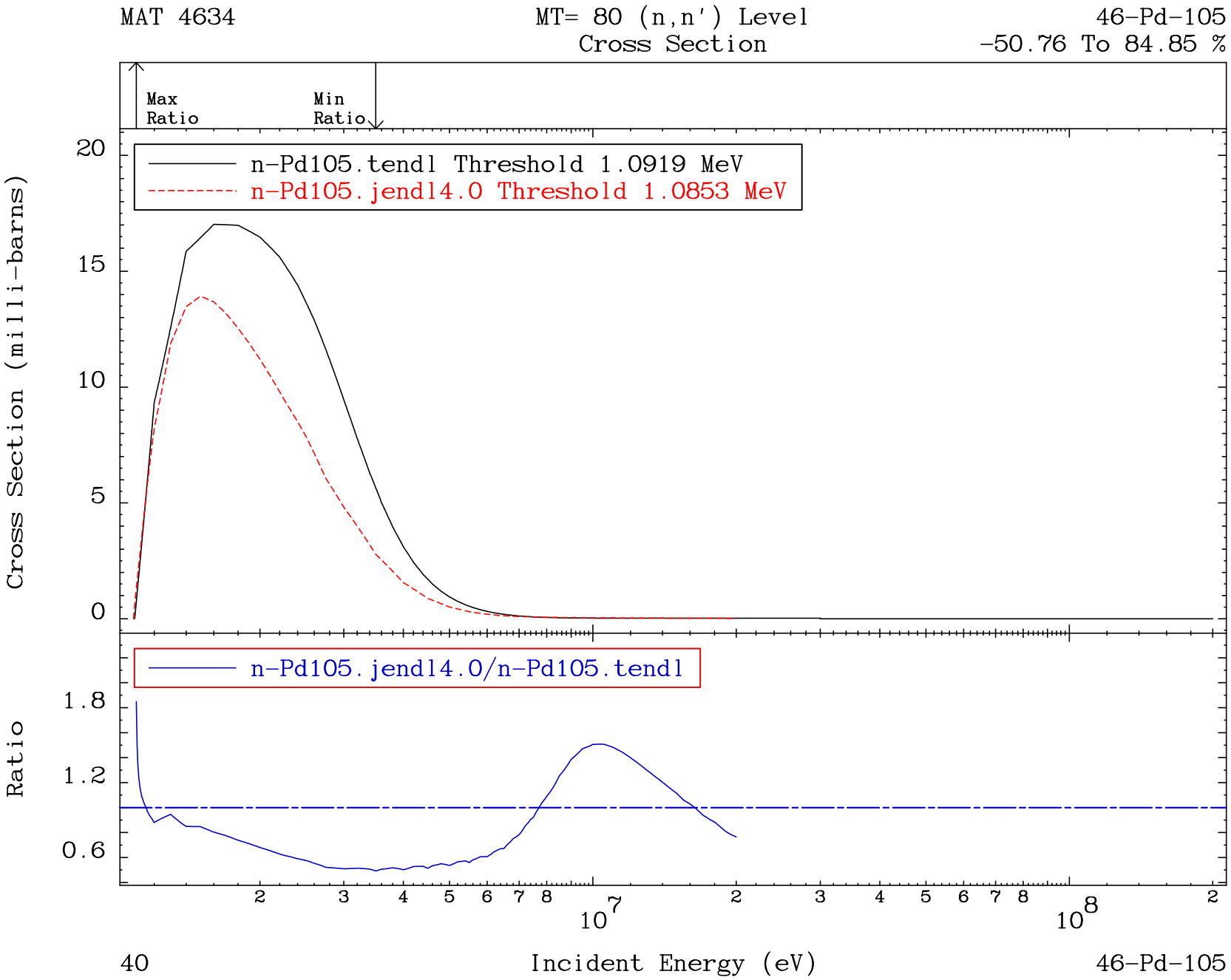

MAT 4634
MT= 75 (n,n') Level
Cross Section
46-Pd-105
-66.02 To -9.848%
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 981.35 keV
n-Pd105.jendl4.0 Threshold 981.35 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.0
0.8
0.6
0.4
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
35
Incident Energy (eV)
46-Pd-105

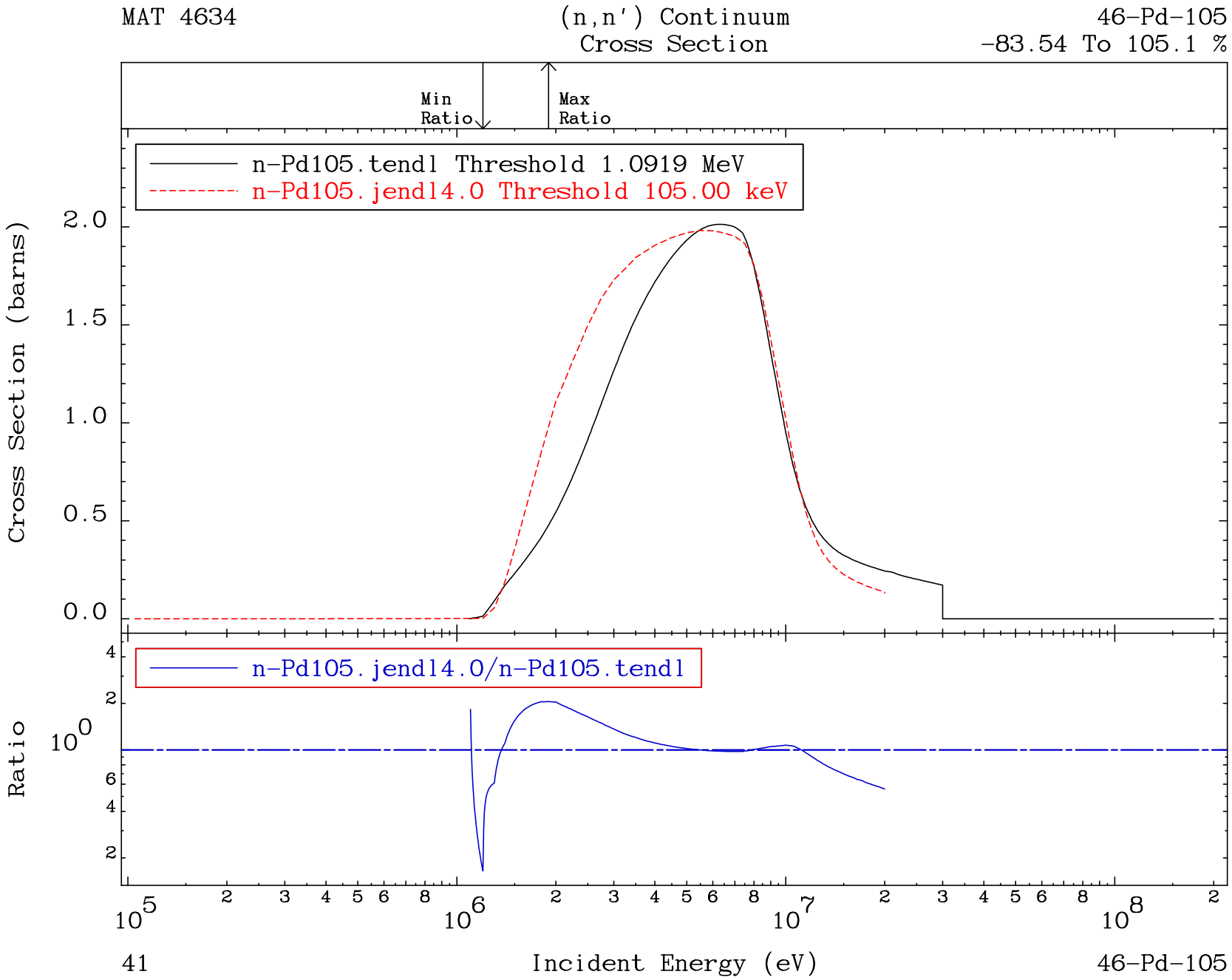

MAT 4634
MT= 76 (n,n') Level
Cross Section
46-Pd-105
-50.36 To 130.7 %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 1.0213 MeV
n-Pd105.jendl4.0 Threshold 1.0213 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
46-Pd-105

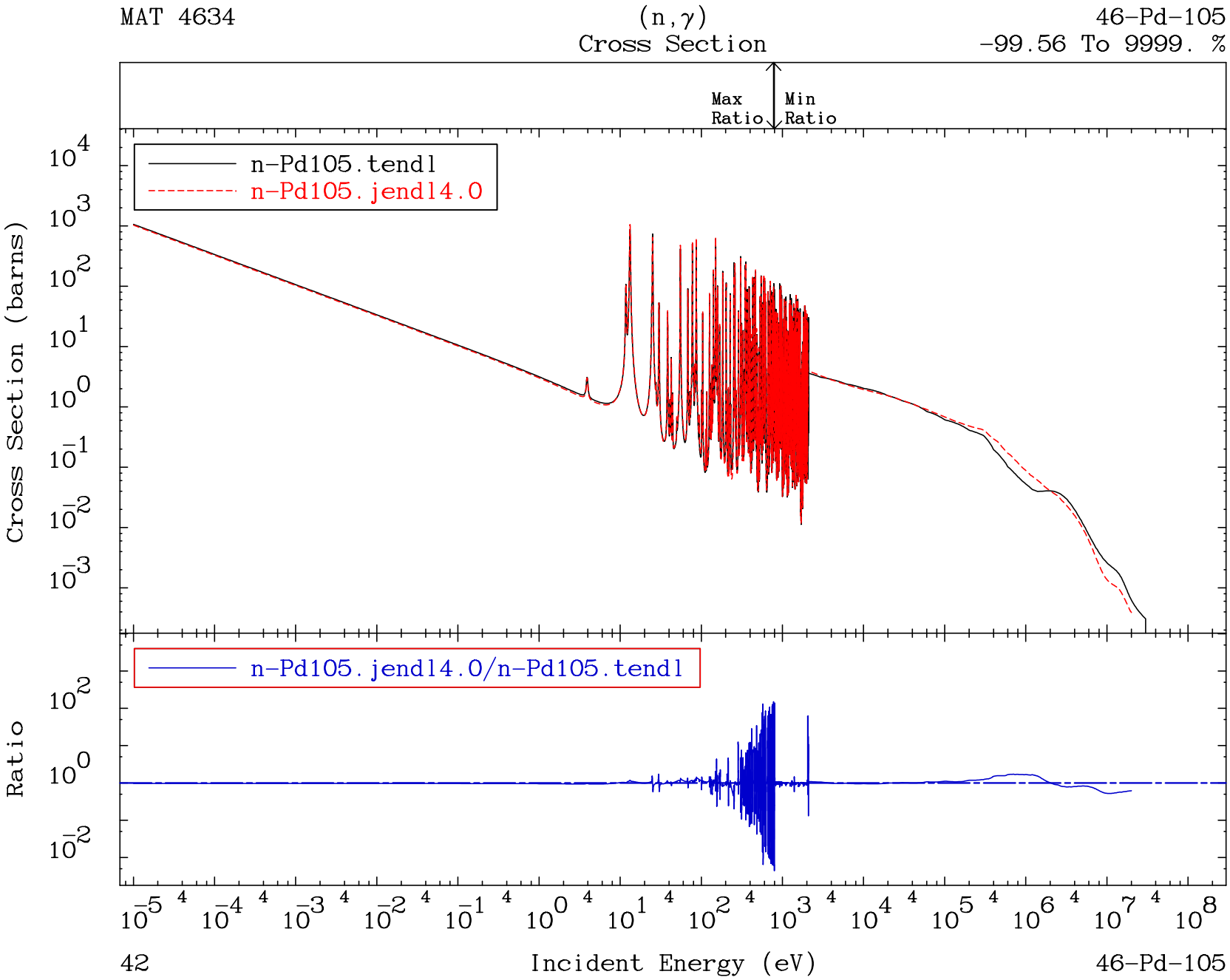

MAT 4634
MT= 77 (n,n') Level
Cross Section
46-Pd-105
-31.57 To 1763. %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 1.0520 MeV
n-Pd105.jendl4.0 Threshold 1.0214 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
4
10^1
4
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
46-Pd-105

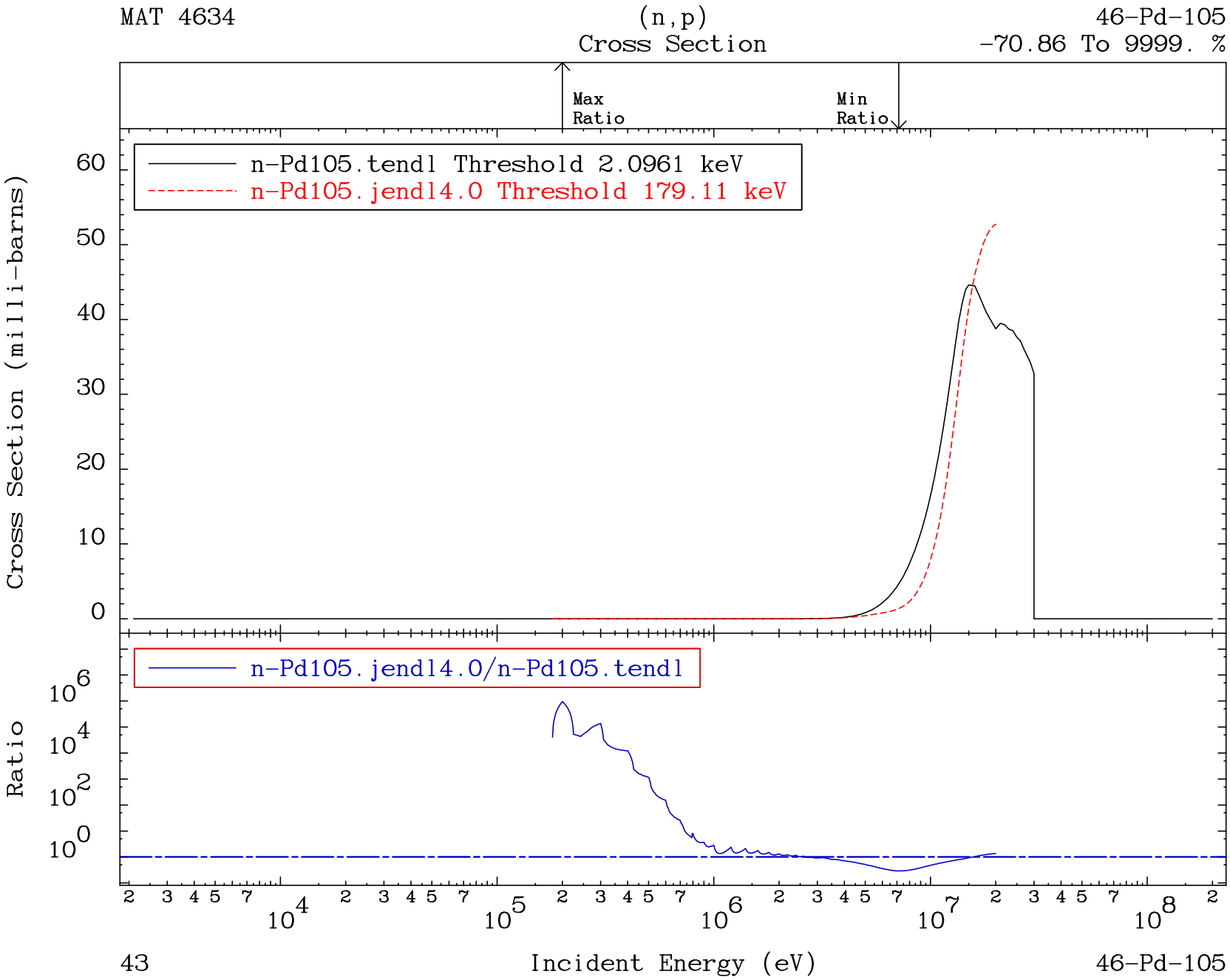

MAT 4634
MT= 78 (n,n') Level
Cross Section
46-Pd-105
-54.26 To 116.2 %
Min
Ratio
Max
Ratio
n-Pd105.tendl Threshold 1.0825 MeV
n-Pd105.jendl4.0 Threshold 1.0825 MeV
Cross Section (milli-barns)
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
2.0
1.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
46-Pd-105

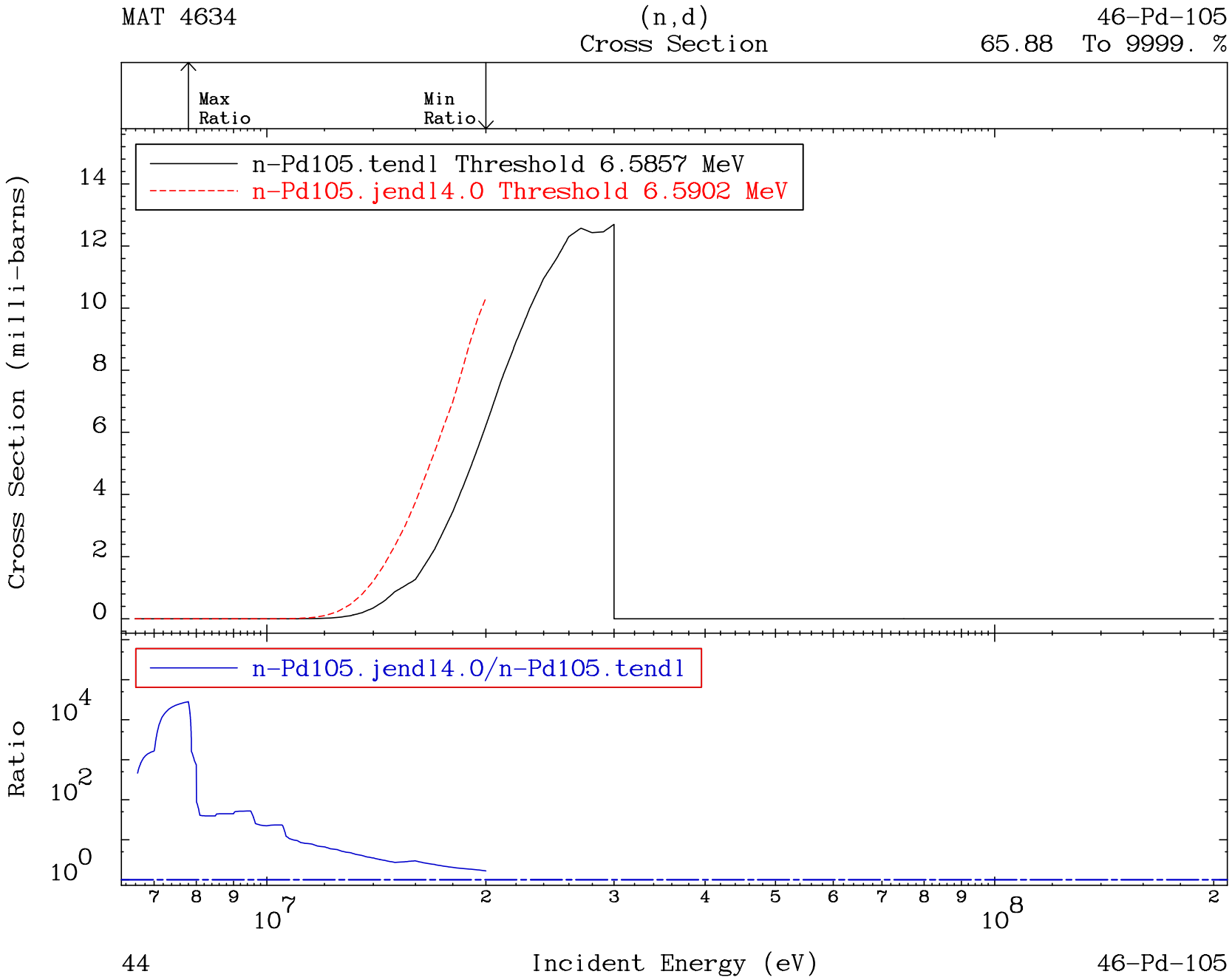

MAT 4634
MT= 79 (n,n') Level
Cross Section
46-Pd-105
-92.47 To 43.72 %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 1.0847 MeV
n-Pd105.jendl4.0 Threshold 1.0847 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
6
4
10^-1
6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
46-Pd-105

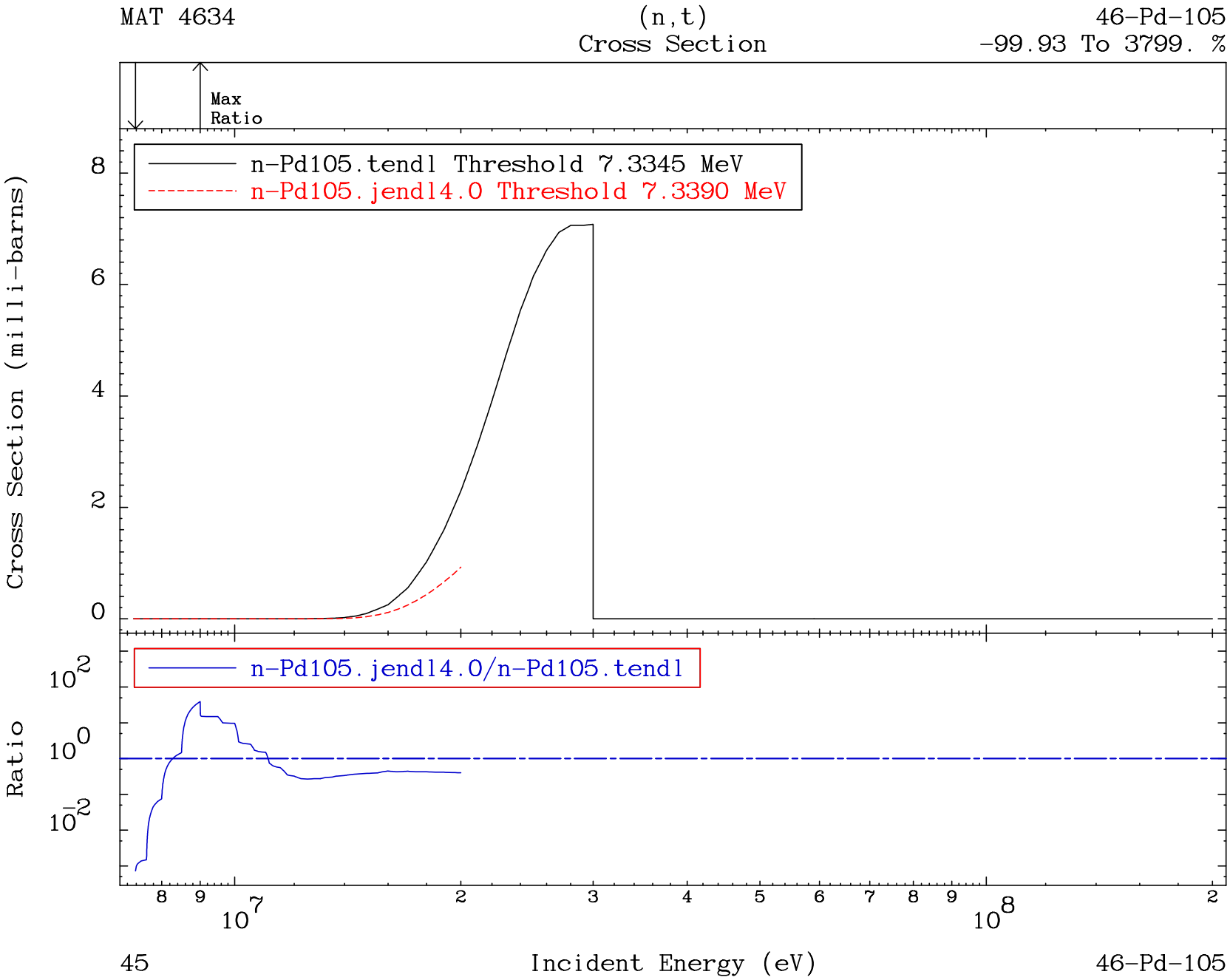

MAT 4634
MT= 80 (n,n') Level
Cross Section
46-Pd-105
-50.76 To 84.85 %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 1.0919 MeV
n-Pd105.jendl4.0 Threshold 1.0853 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.8
1.2
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
46-Pd-105

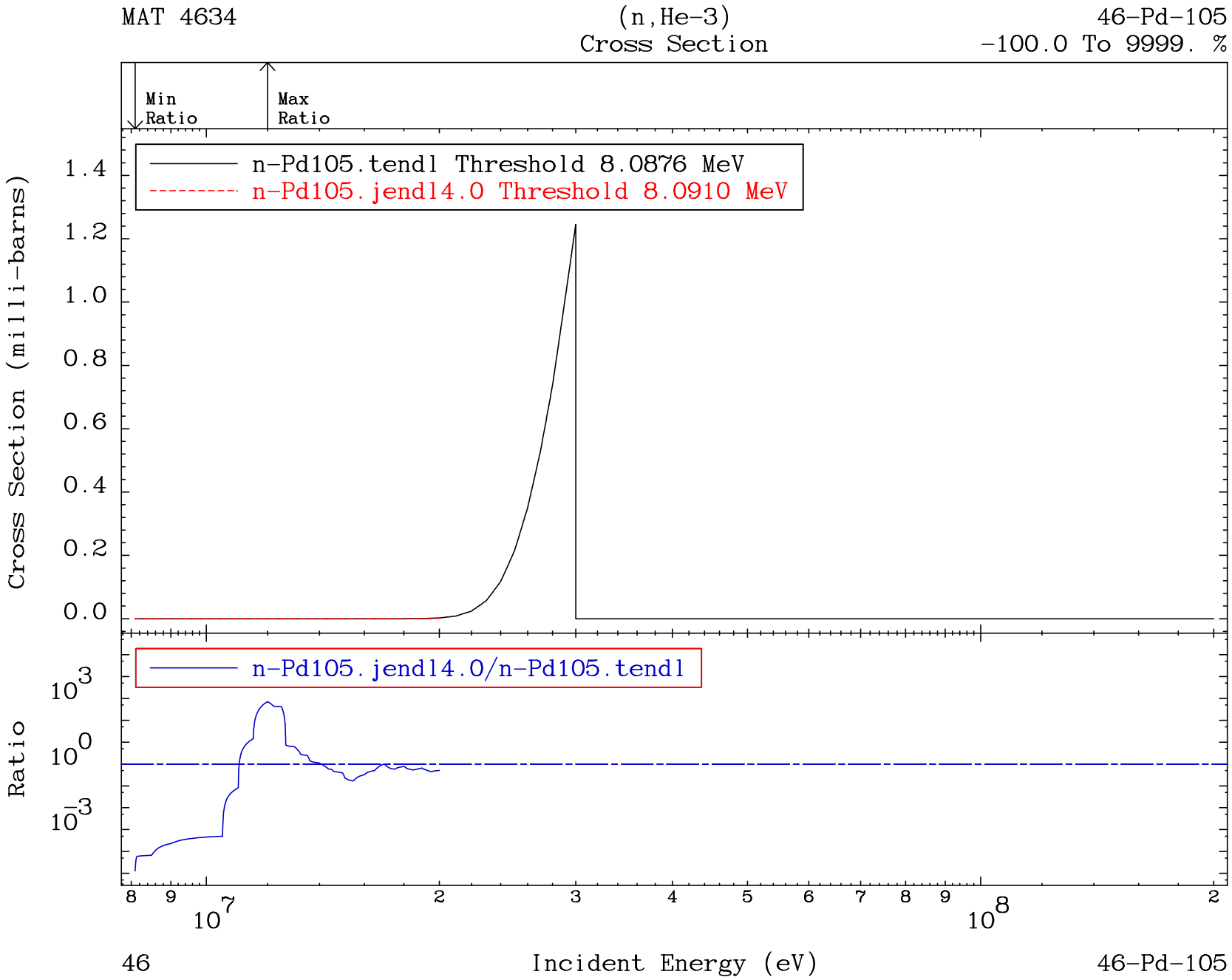

MAT 4634
(n,n') Continuum
Cross Section
46-Pd-105
-83.54 To 105.1 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 1.0919 MeV
n-Pd105.jendl4.0 Threshold 105.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
4
2
10^0
6
4
2
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
41
Incident Energy (eV)
46-Pd-105

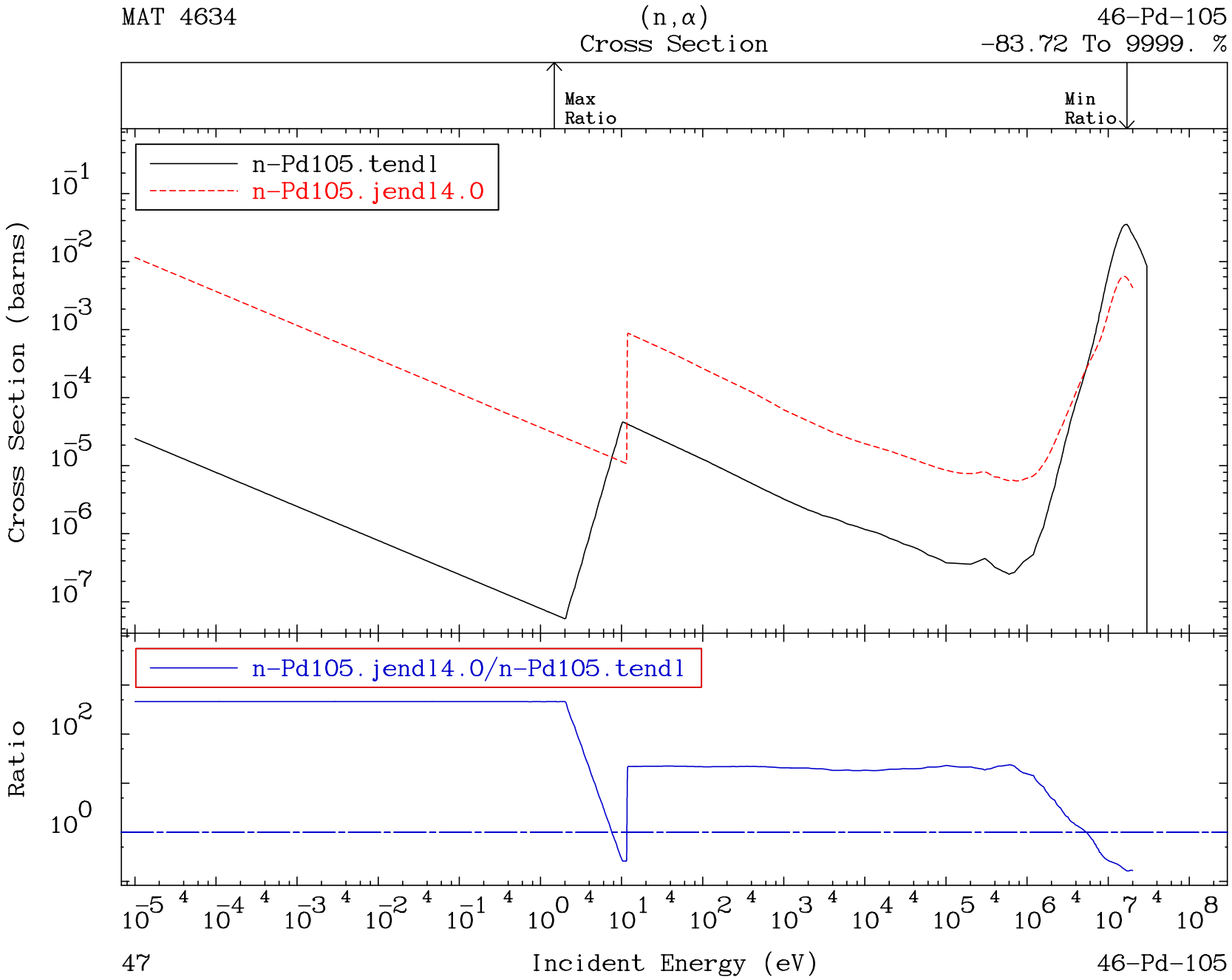

MAT 4634
(n,γ)
Cross Section
46-Pd-105
-99.56 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
42
46-Pd-105

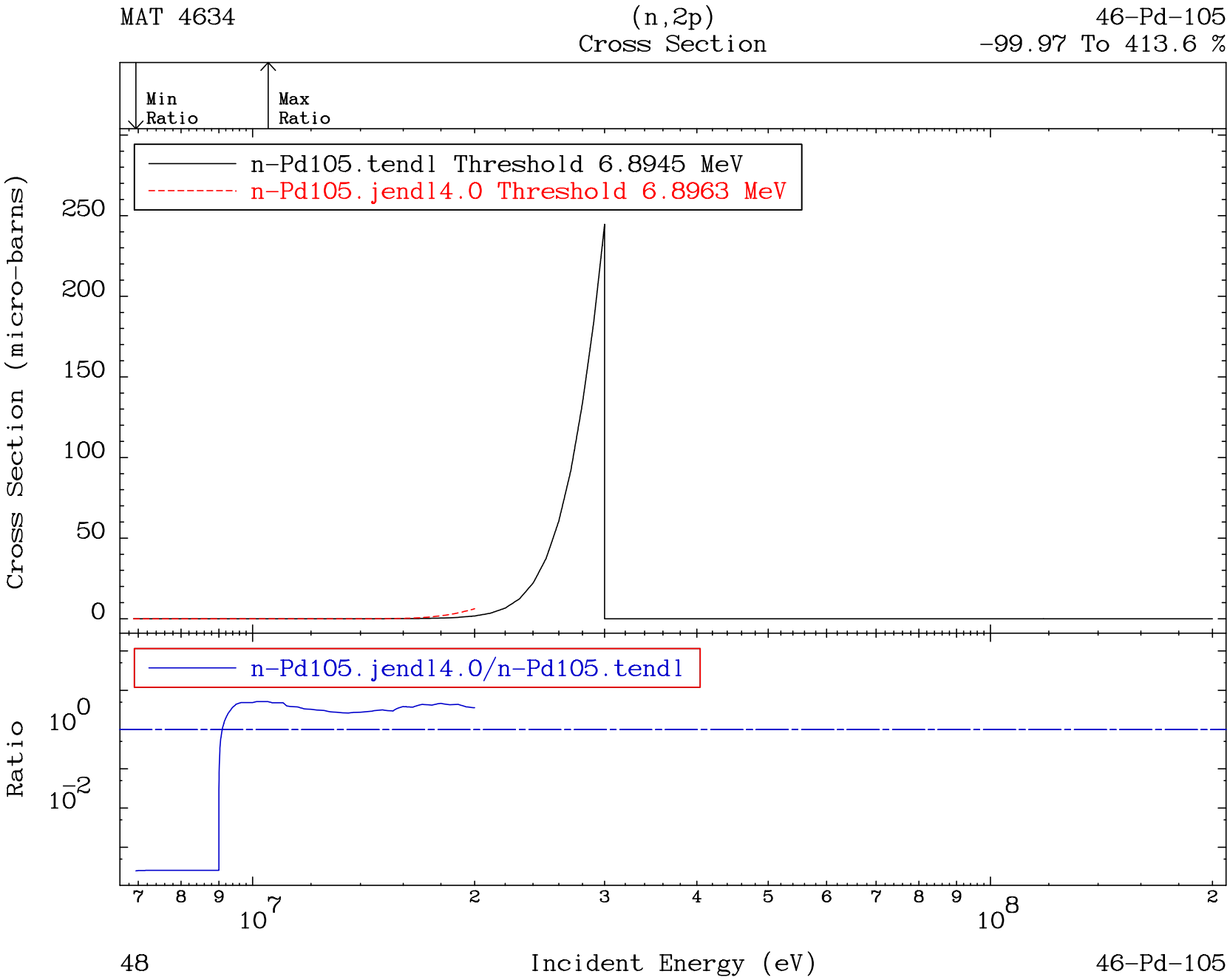

MAT 4634
(n,p)
Cross Section
46-Pd-105
-70.86 To 9999. %
Max
Ratio
Min
Ratio
n-Pd105.tendl Threshold 2.0961 keV
n-Pd105.jendl4.0 Threshold 179.11 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
43
Incident Energy (eV)
46-Pd-105

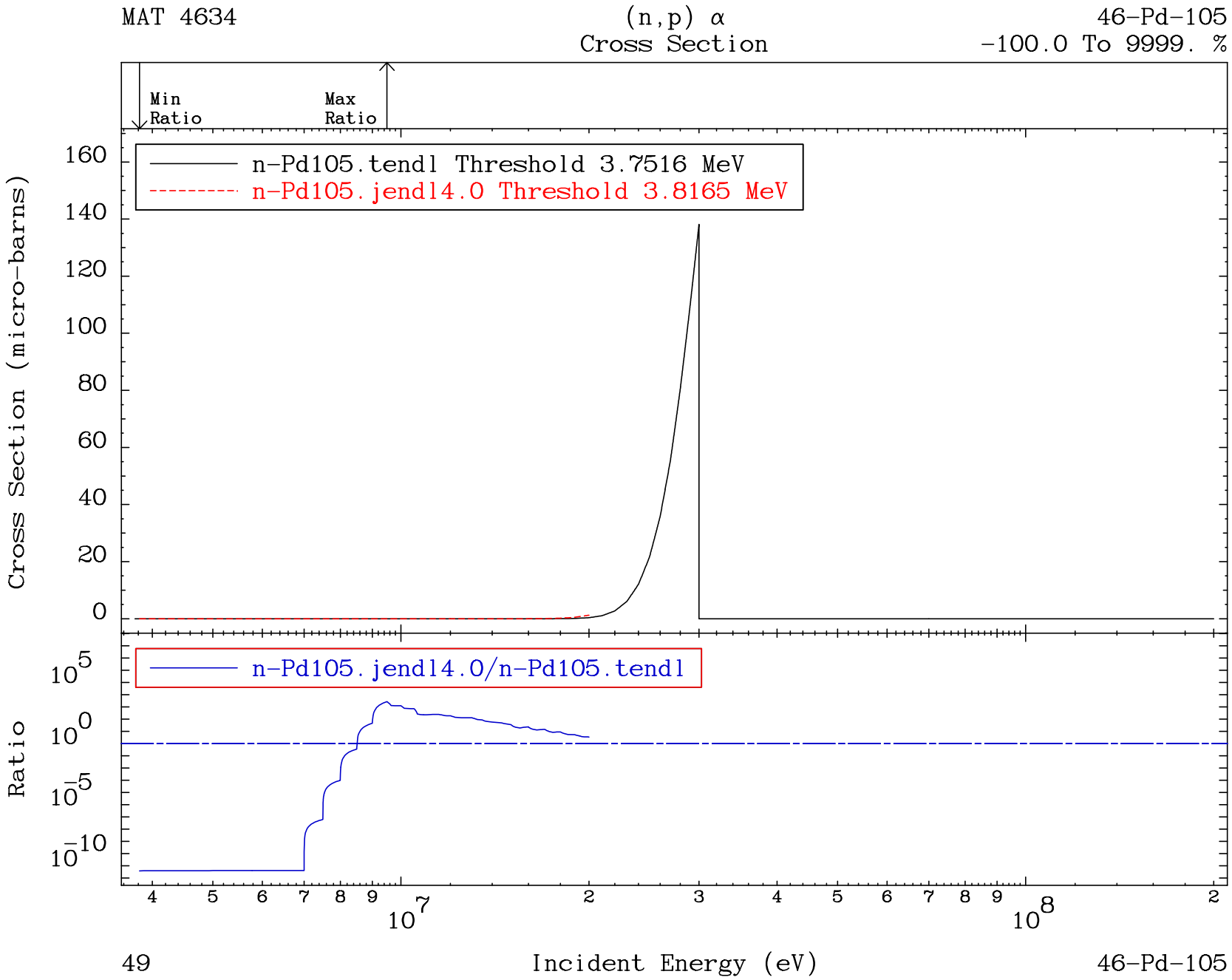

MAT 4634
(n,d)
Cross Section
46-Pd-105
65.88 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 6.5857 MeV
n-Pd105.jendl4.0 Threshold 6.5902 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^2
10^4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
46-Pd-105

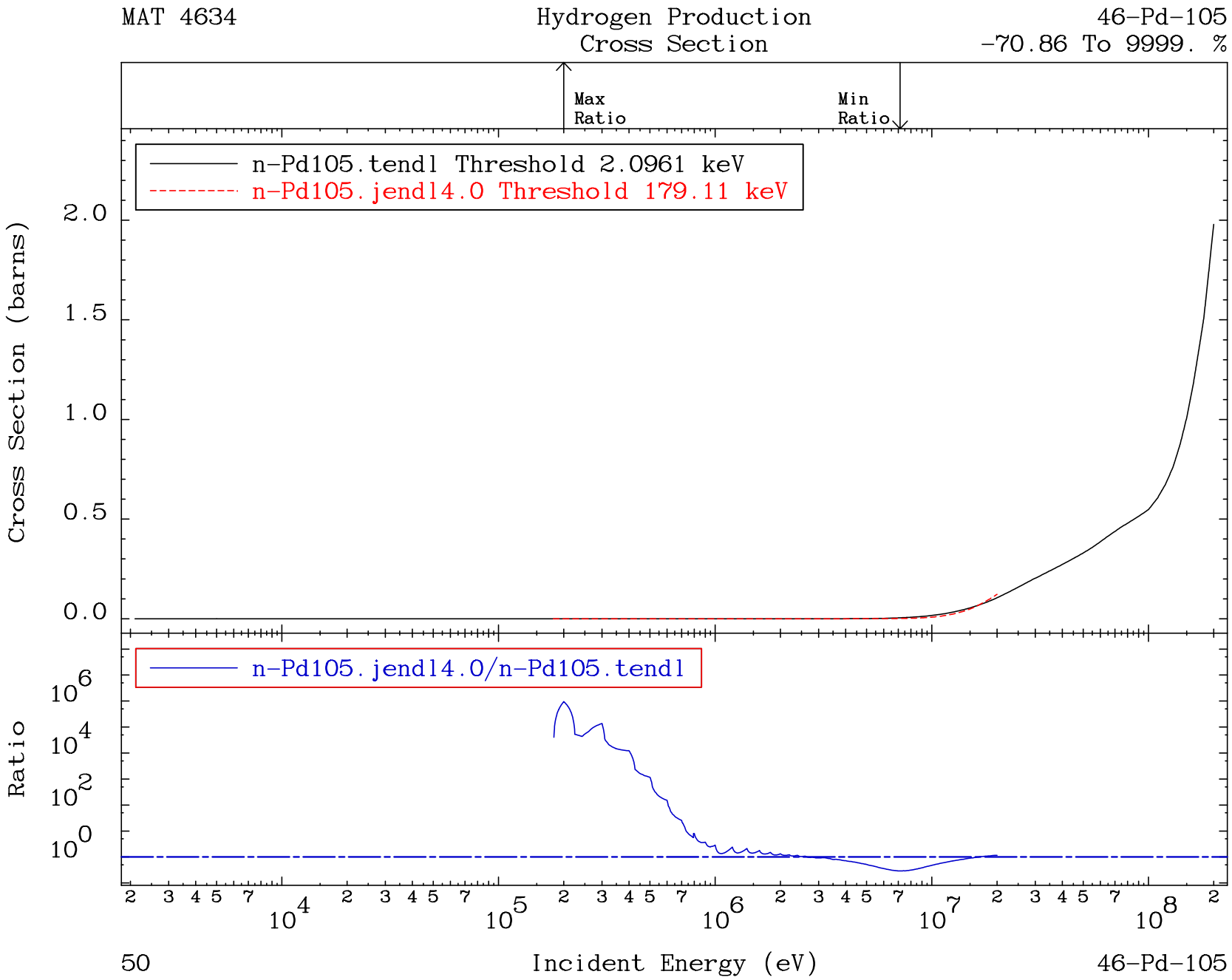

MAT 4634
(n,t)
Cross Section
46-Pd-105
-99.93 To 3799. %
Max
Ratio
n-Pd105.tendl Threshold 7.3345 MeV
n-Pd105.jendl4.0 Threshold 7.3390 MeV
Cross Section (milli-barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
45
46-Pd-105

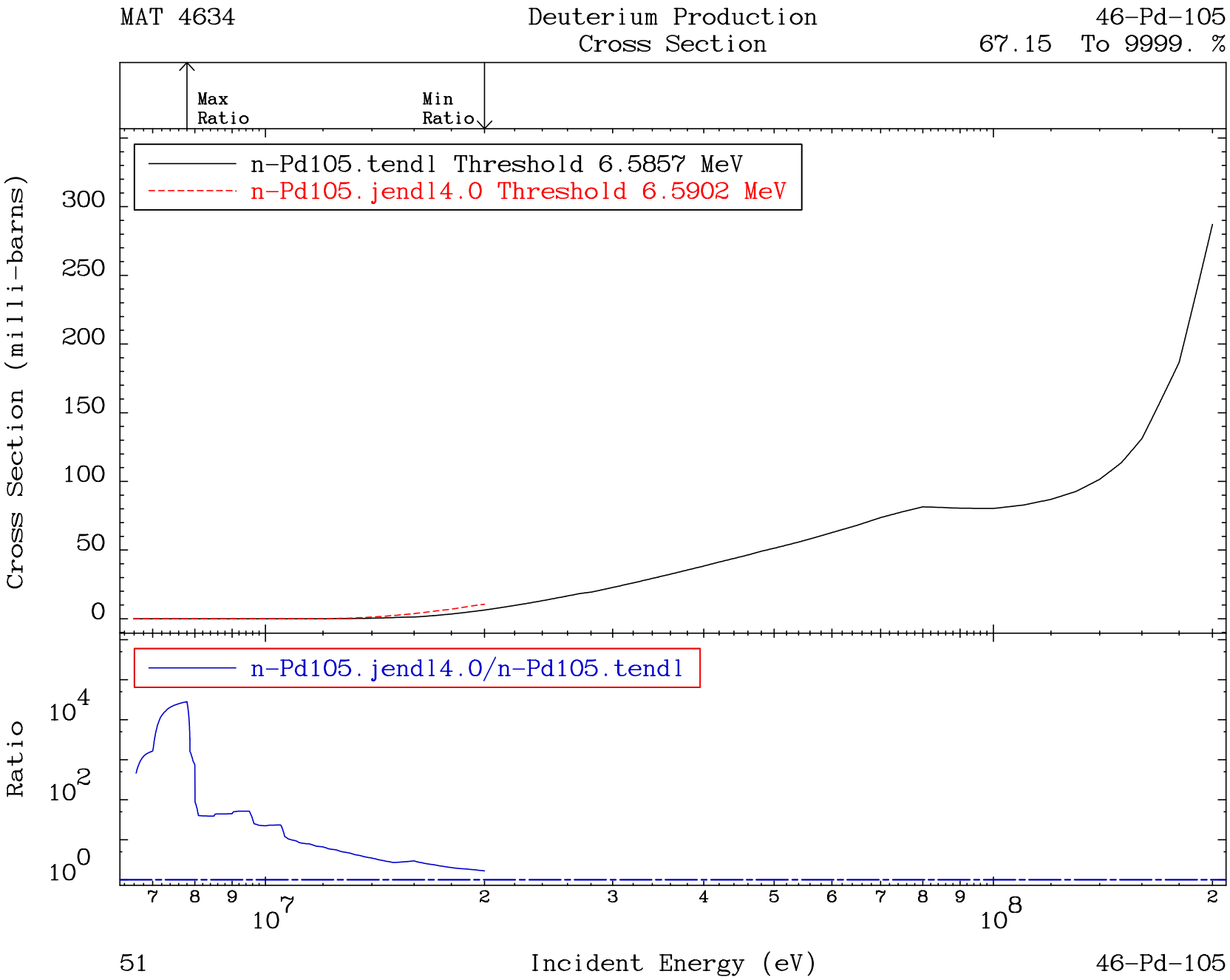

MAT 4634
(n,He-3)
Cross Section
46-Pd-105
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 8.0876 MeV
n-Pd105.jendl4.0 Threshold 8.0910 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^3
10^0
10^-3
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
46-Pd-105

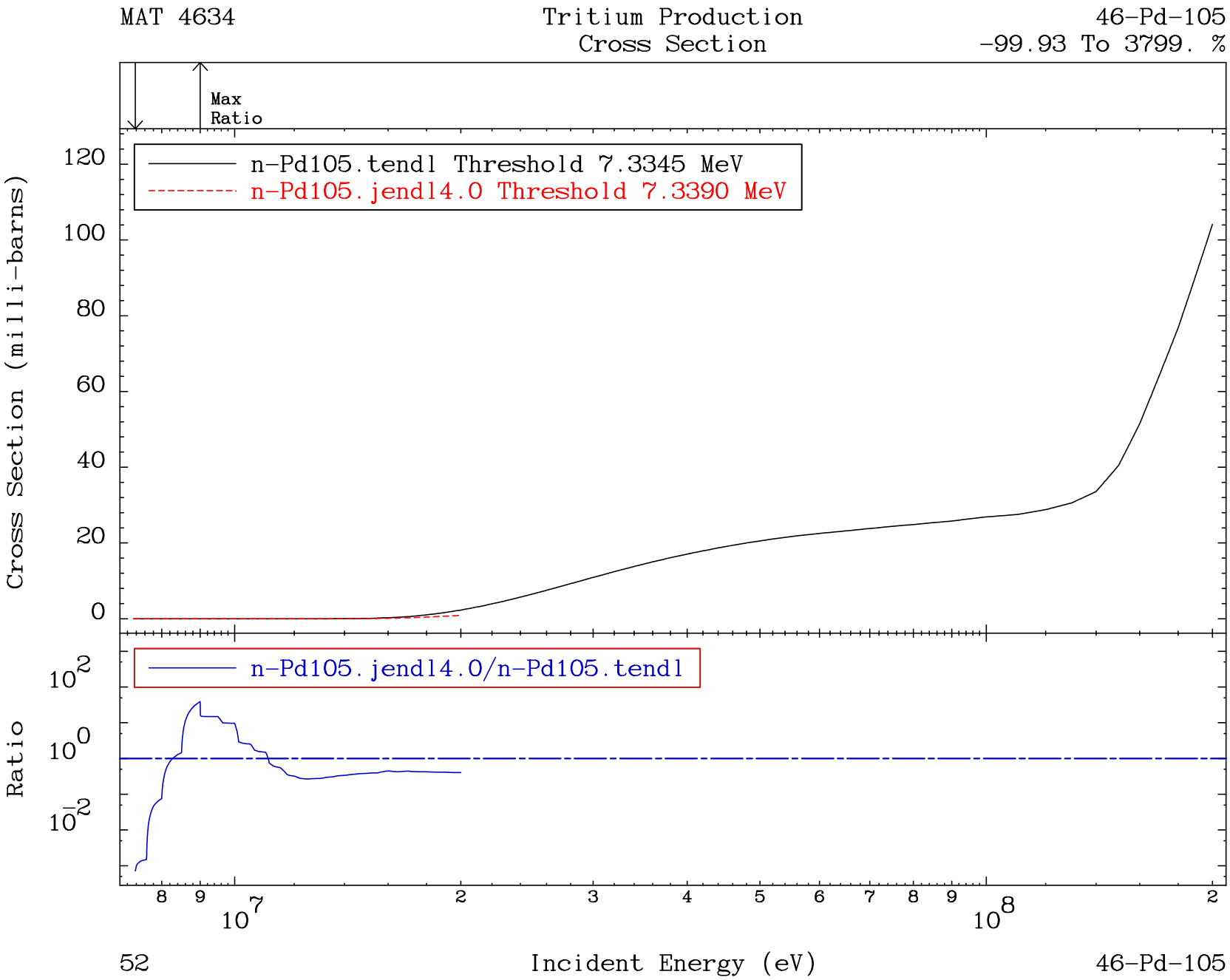

MAT 4634
(n,α)
Cross Section
46-Pd-105
-83.72 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
47
Incident Energy (eV)
46-Pd-105

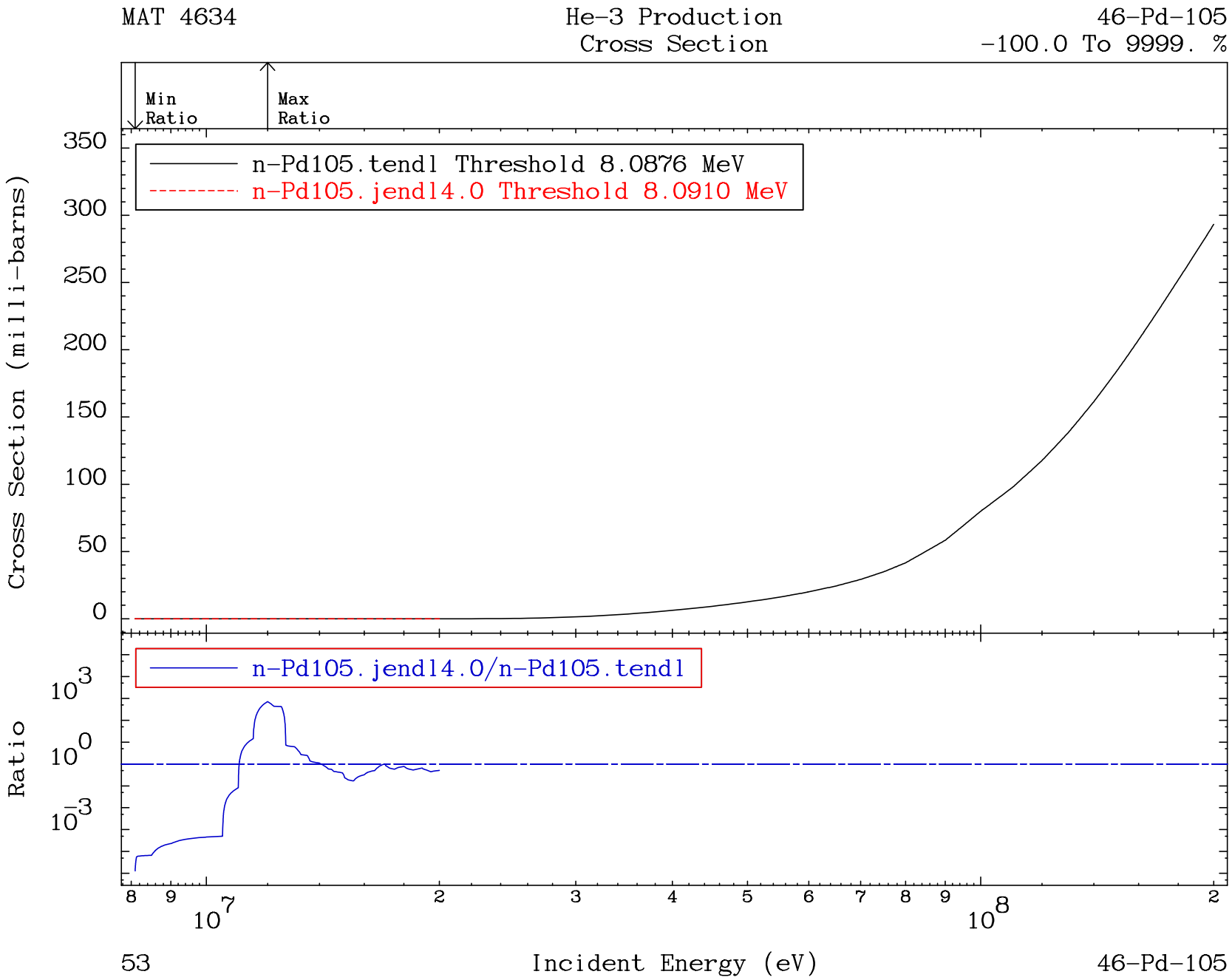

MAT 4634
(n,2p)
Cross Section
46-Pd-105
-99.97 To 413.6 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 6.8945 MeV
n-Pd105.jendl4.0 Threshold 6.8963 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^0
10^-2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
46-Pd-105

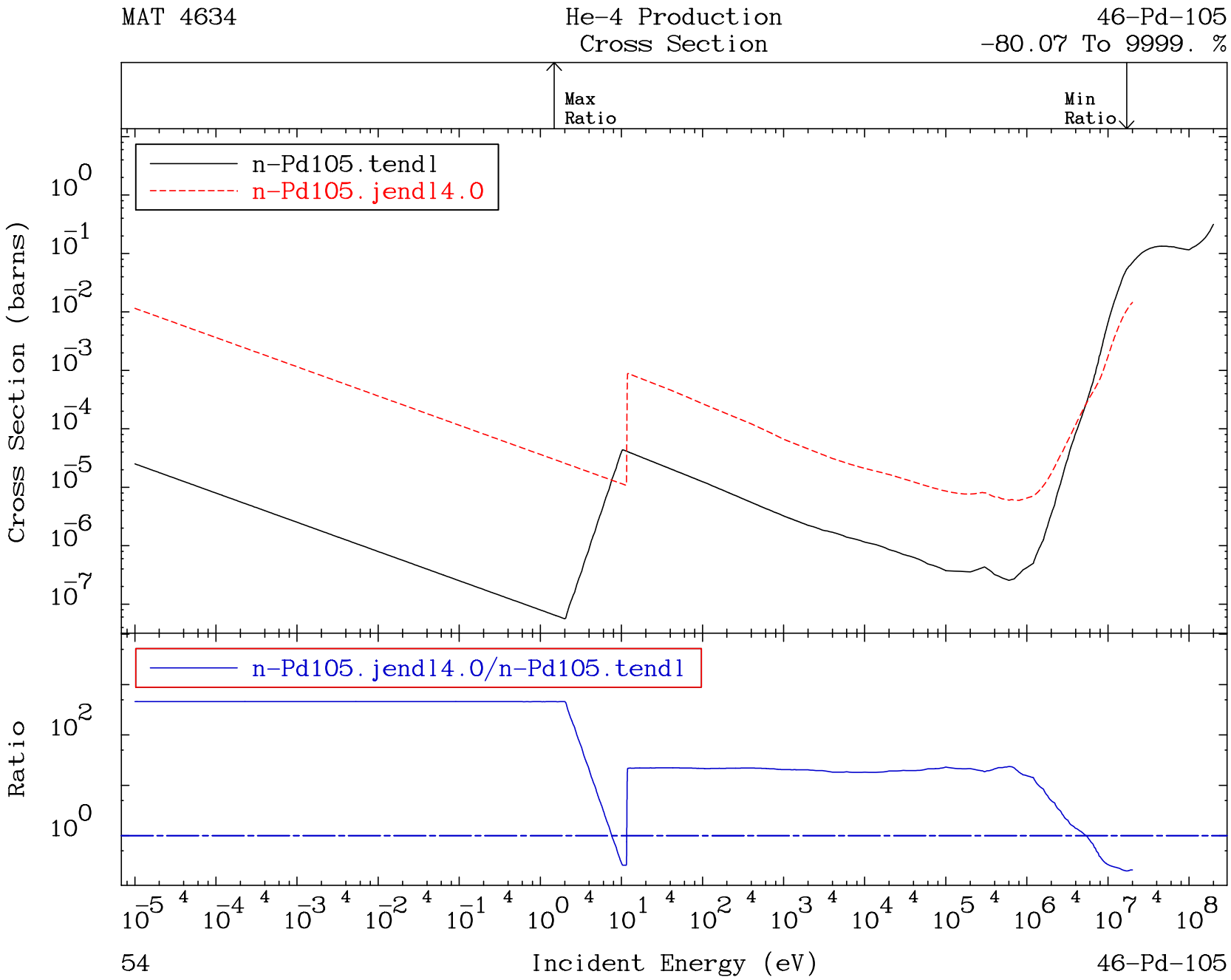

MAT 4634
(n,p) α
Cross Section
46-Pd-105
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 3.7516 MeV
n-Pd105.jendl4.0 Threshold 3.8165 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^5
10^0
10^-5
10^-10
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
46-Pd-105

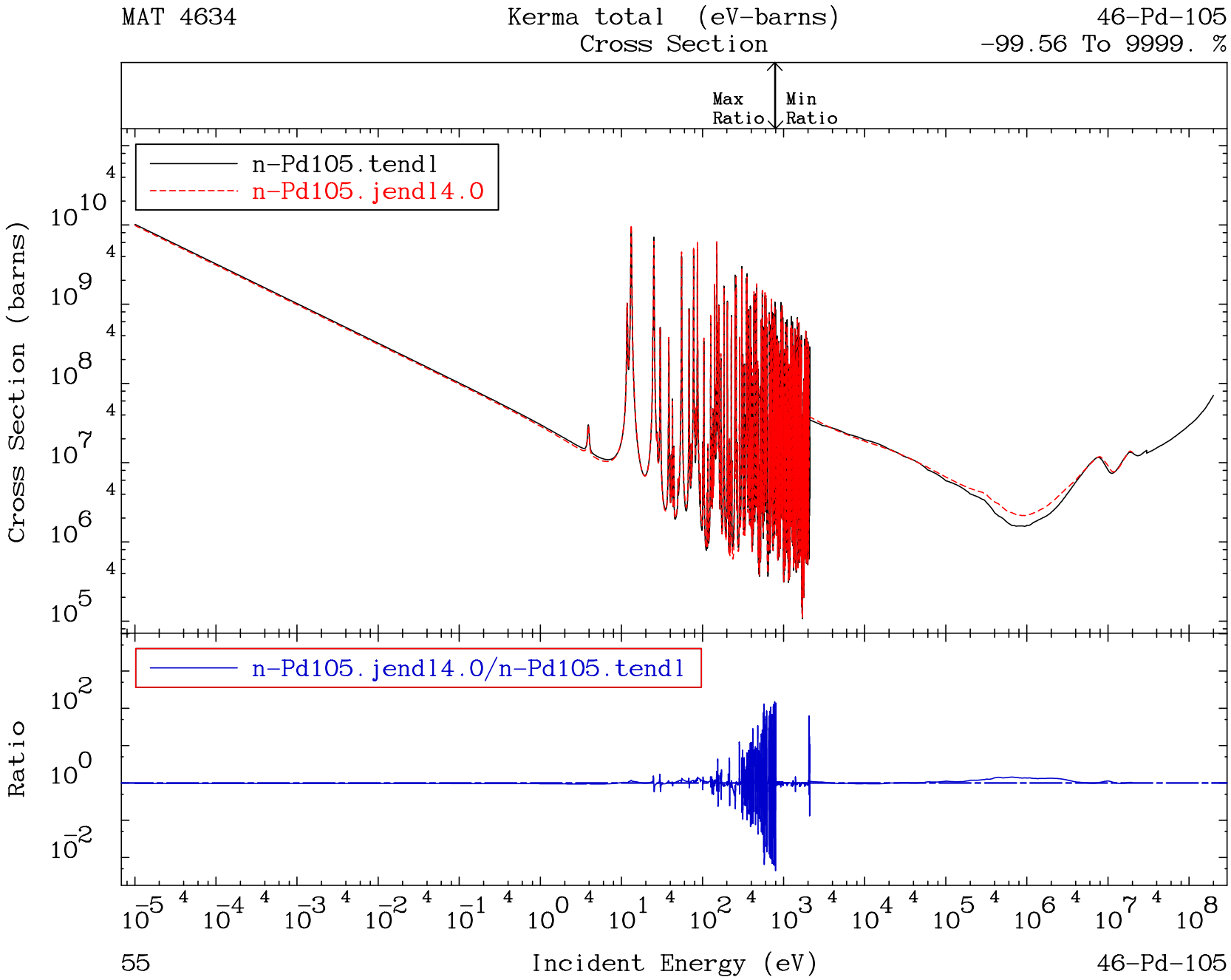

MAT 4634
Hydrogen Production
Cross Section
46-Pd-105
-70.86 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 2.0961 keV
n-Pd105.jendl4.0 Threshold 179.11 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^6
10^4
10^2
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
50
Incident Energy (eV)
46-Pd-105

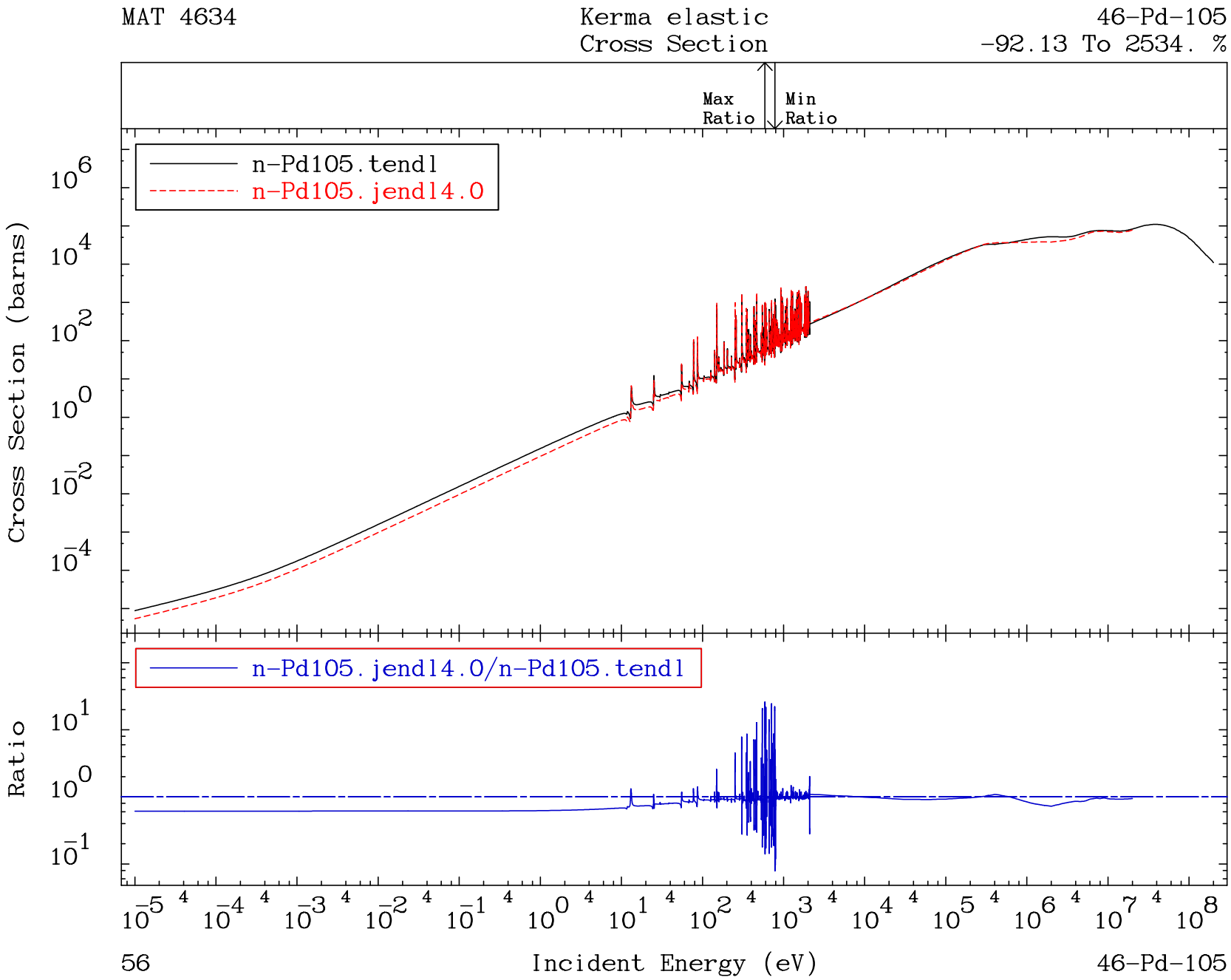

MAT 4634
Deuterium Production
Cross Section
46-Pd-105
67.15 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl Threshold 6.5857 MeV
n-Pd105.jendl4.0 Threshold 6.5902 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^4
10^2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
46-Pd-105

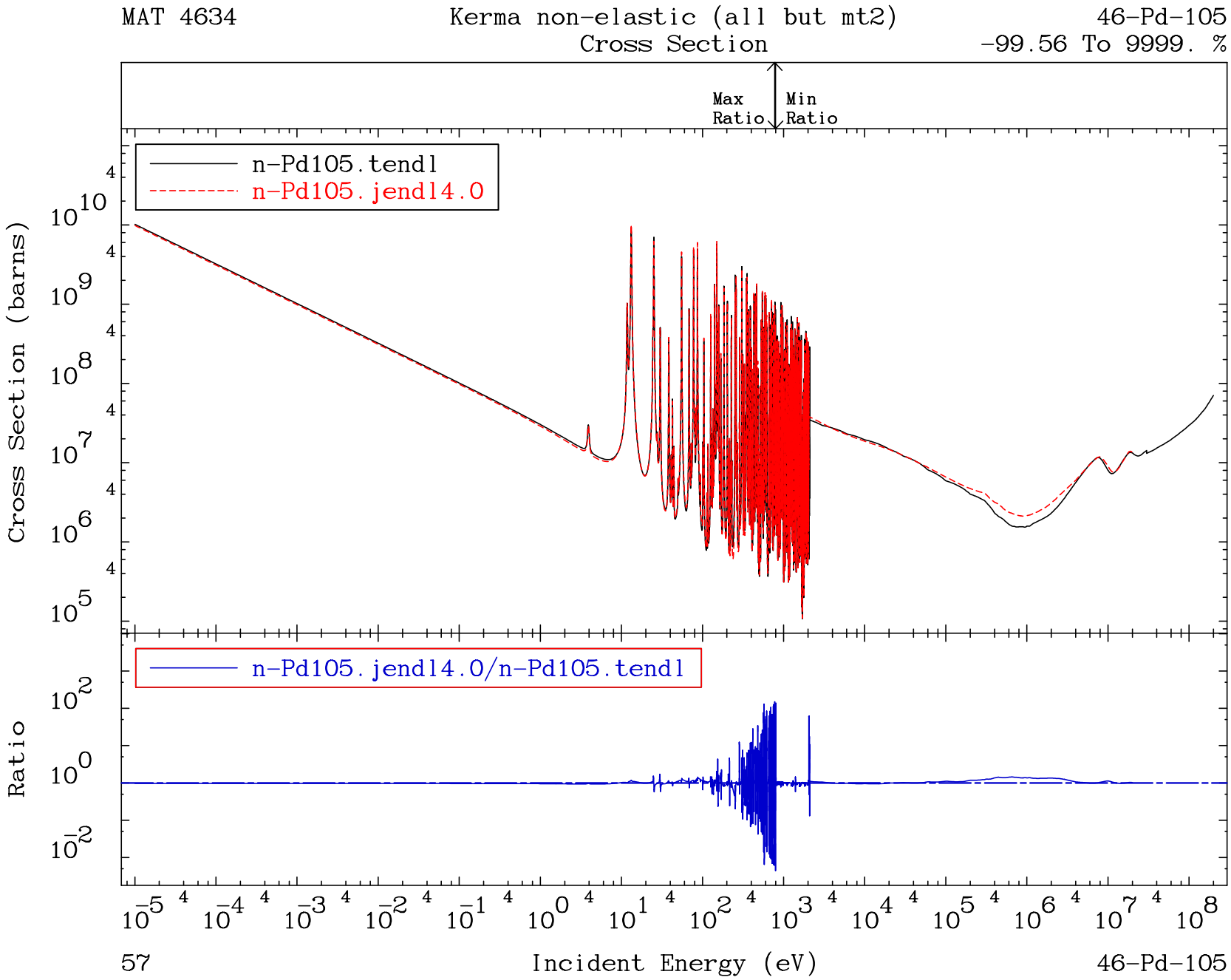

MAT 4634
Tritium Production
Cross Section
46-Pd-105
-99.93 To 3799. %
Max
Ratio
n-Pd105.tendl Threshold 7.3345 MeV
n-Pd105.jendl4.0 Threshold 7.3390 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^2
10^0
10^-2
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
46-Pd-105

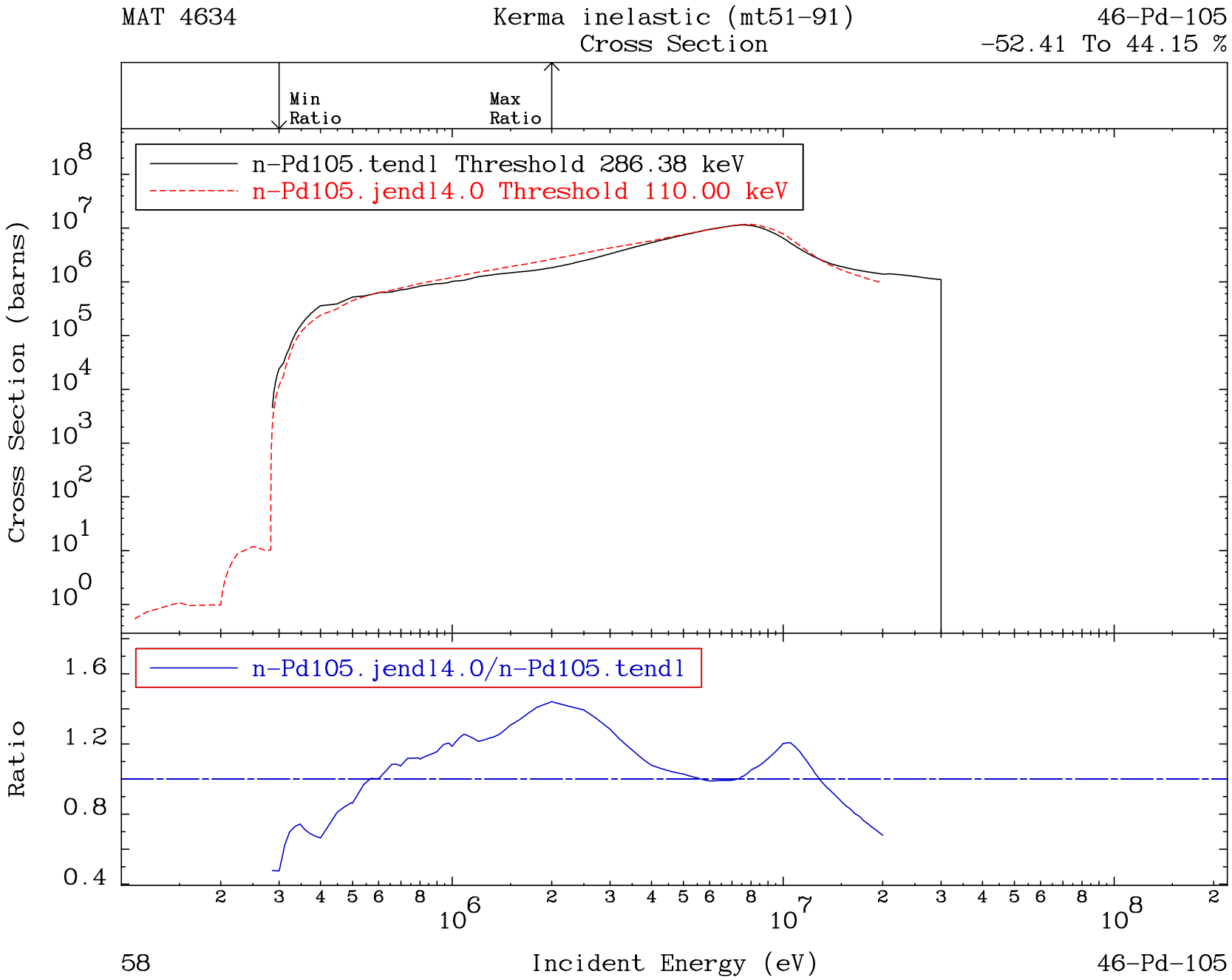

MAT 4634
He-3 Production
Cross Section
46-Pd-105
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 8.0876 MeV
n-Pd105.jendl4.0 Threshold 8.0910 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
10^3
10^0
10^-3
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
46-Pd-105

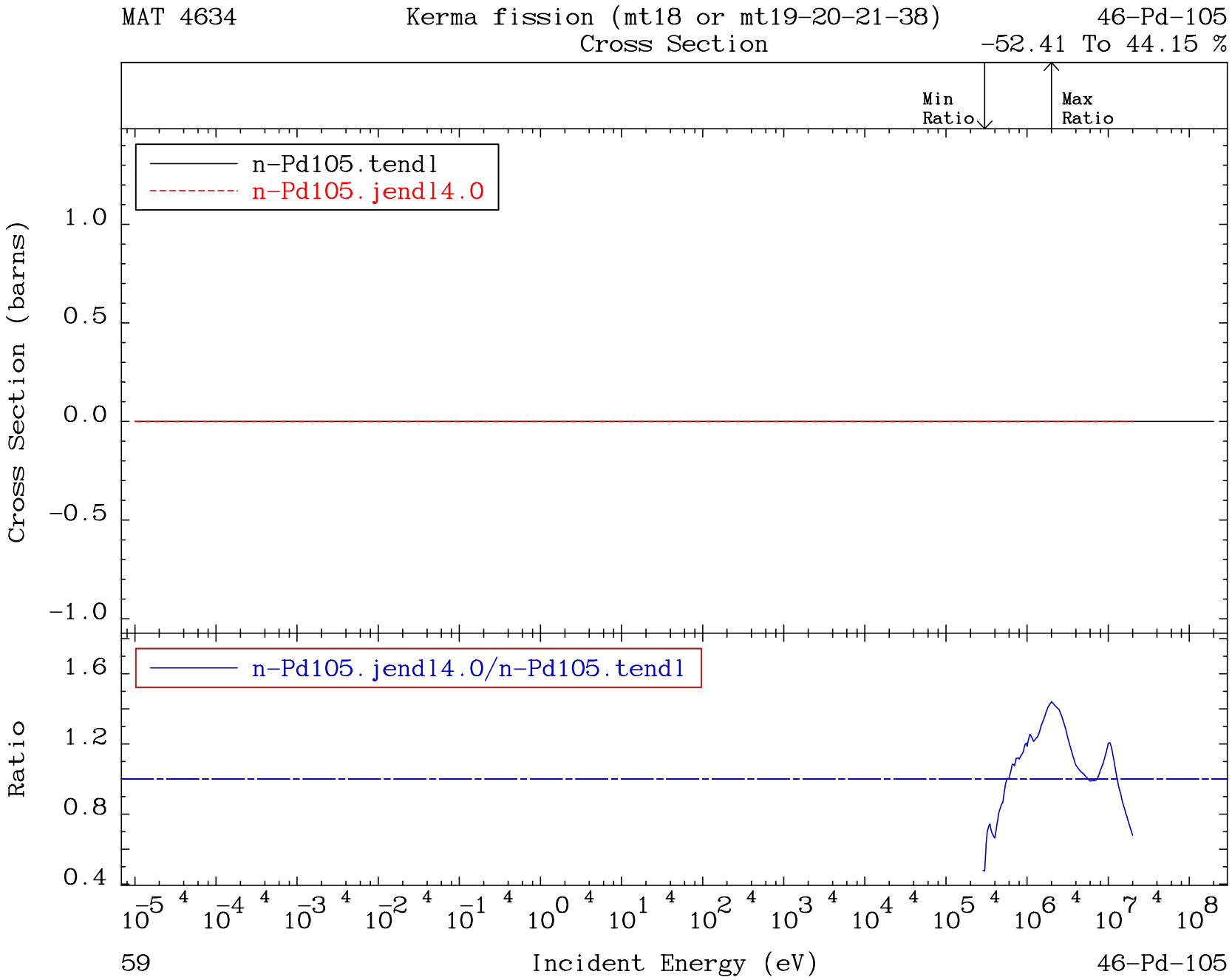

MAT 4634
He-4 Production
Cross Section
46-Pd-105
-80.07 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
54
Incident Energy (eV)
46-Pd-105

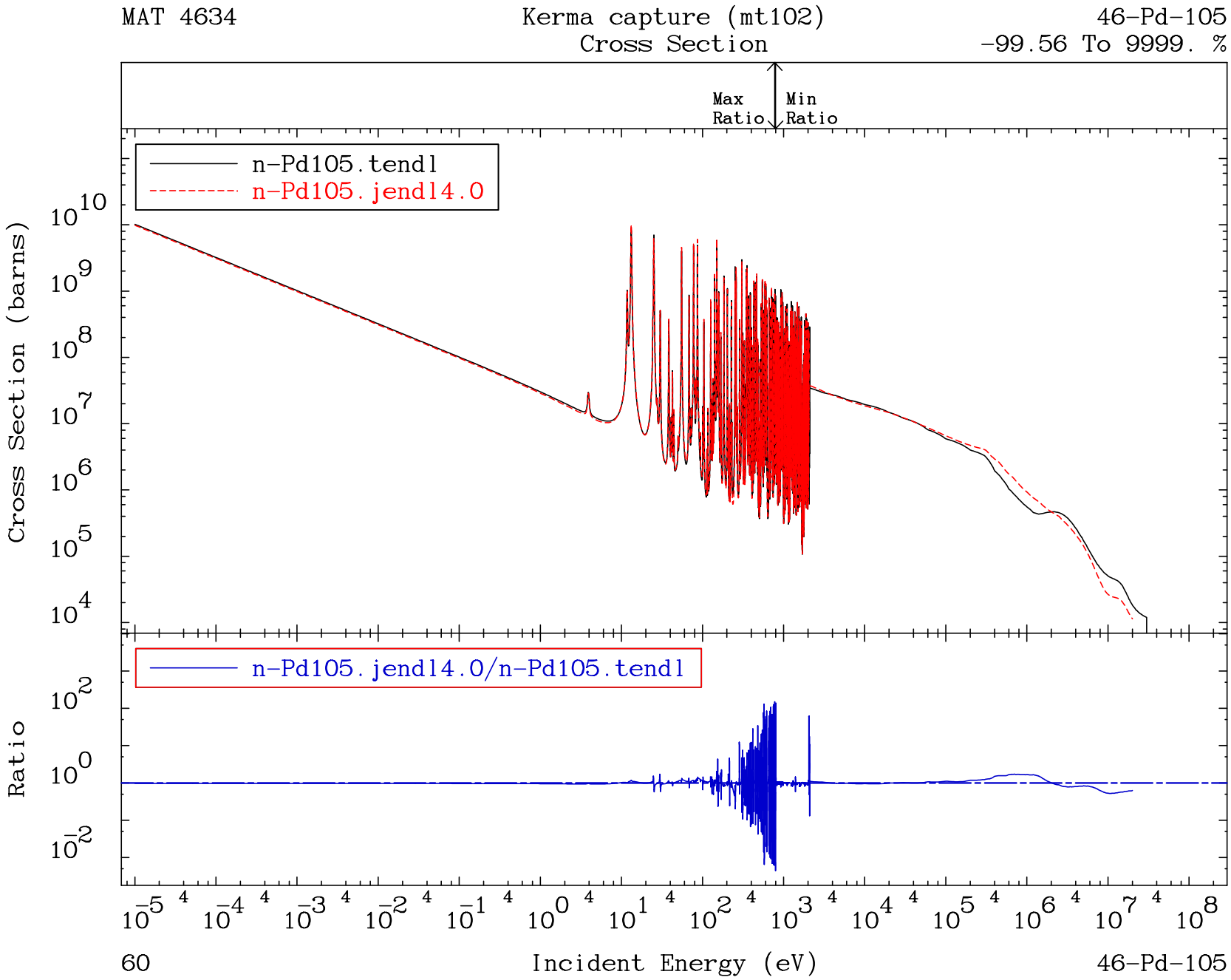

MAT 4634
Kerma total (eV-barns)
Cross Section
46-Pd-105
-99.56 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
55
46-Pd-105

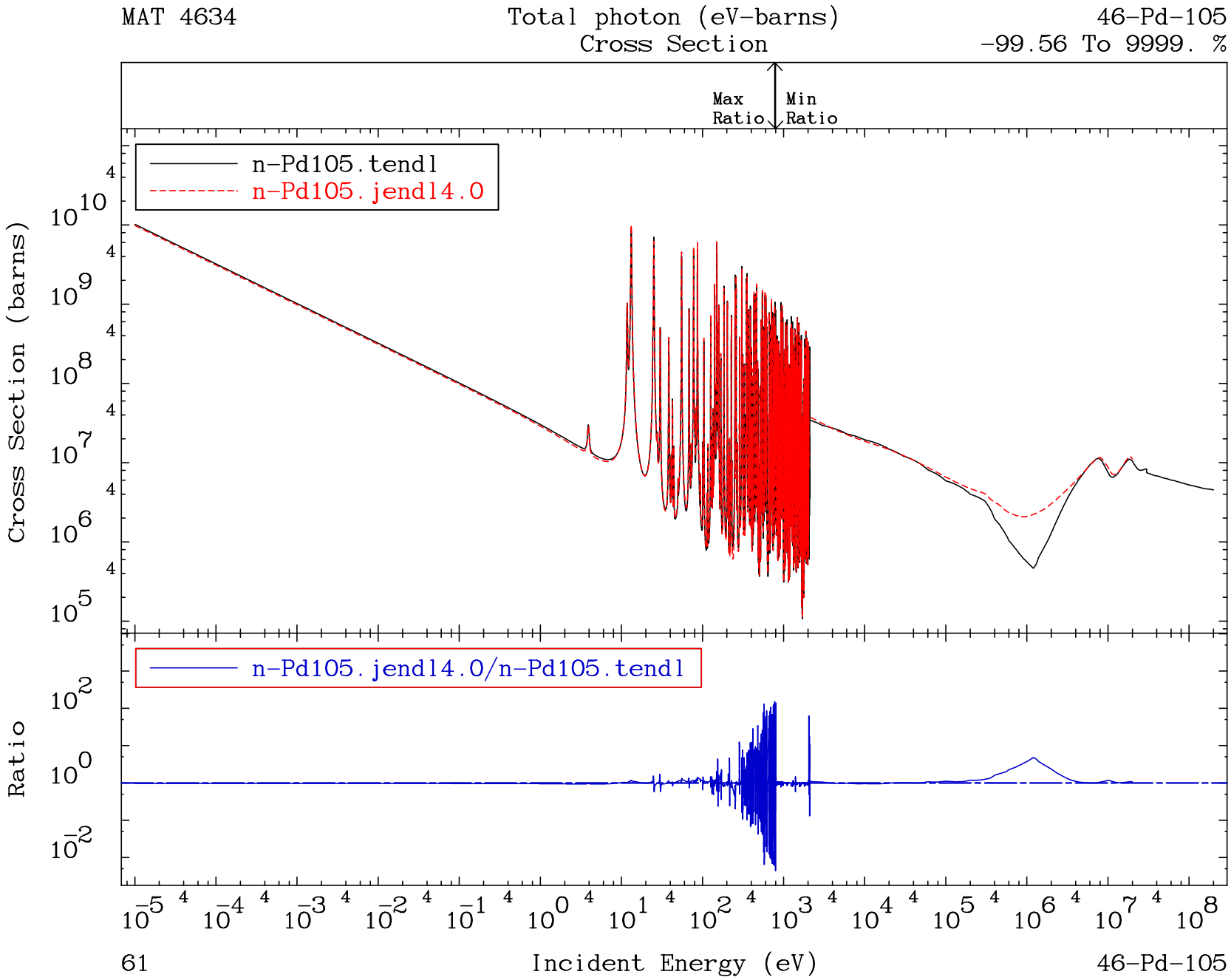

MAT 4634
Kerma elastic
Cross Section
46-Pd-105
-92.13 To 2534. %
Max
Ratio
Min
Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
56
Incident Energy (eV)
46-Pd-105

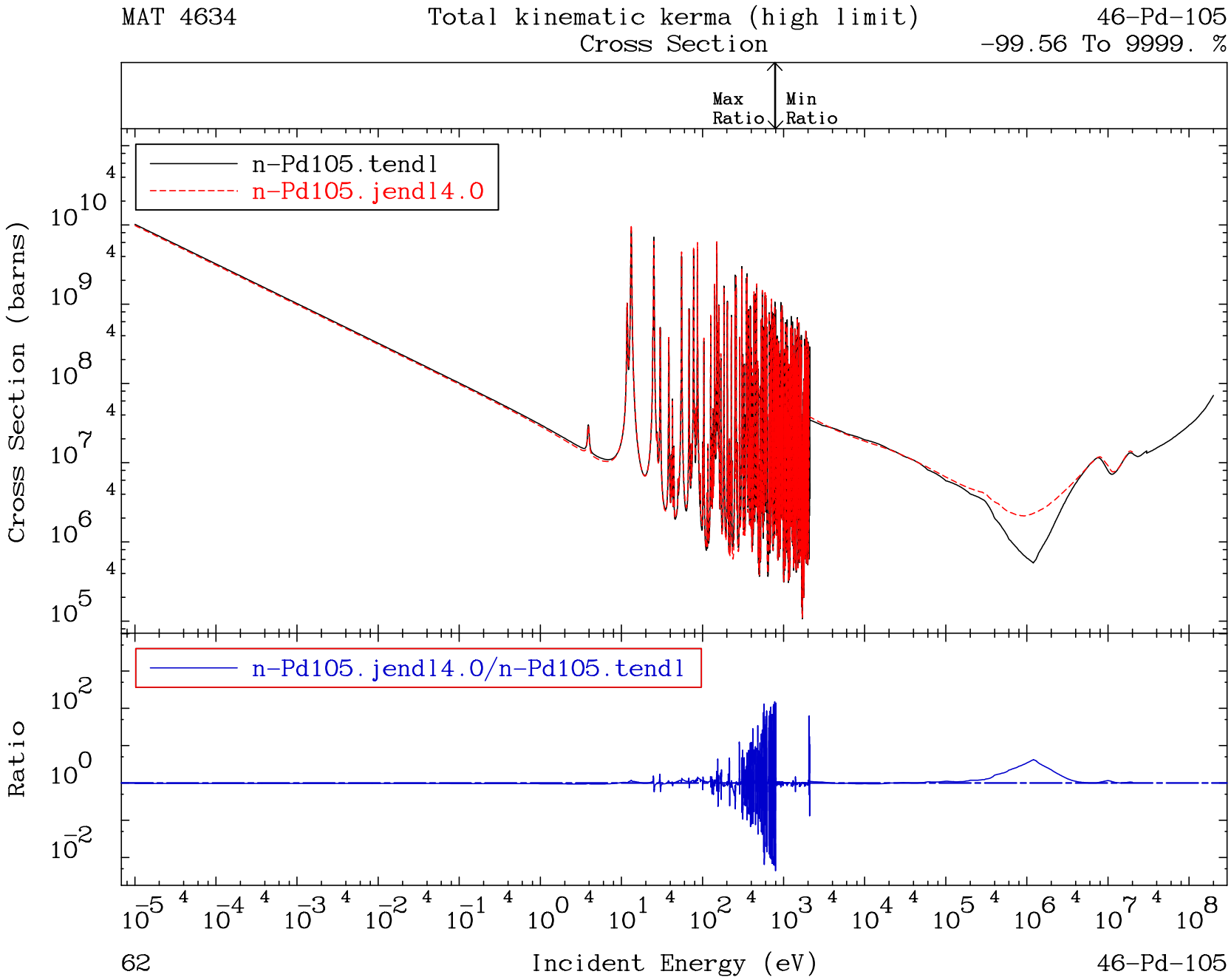

MAT 4634
Kerma non-elastic (all but mt2)
Cross Section
46-Pd-105
-99.56 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
57
46-Pd-105

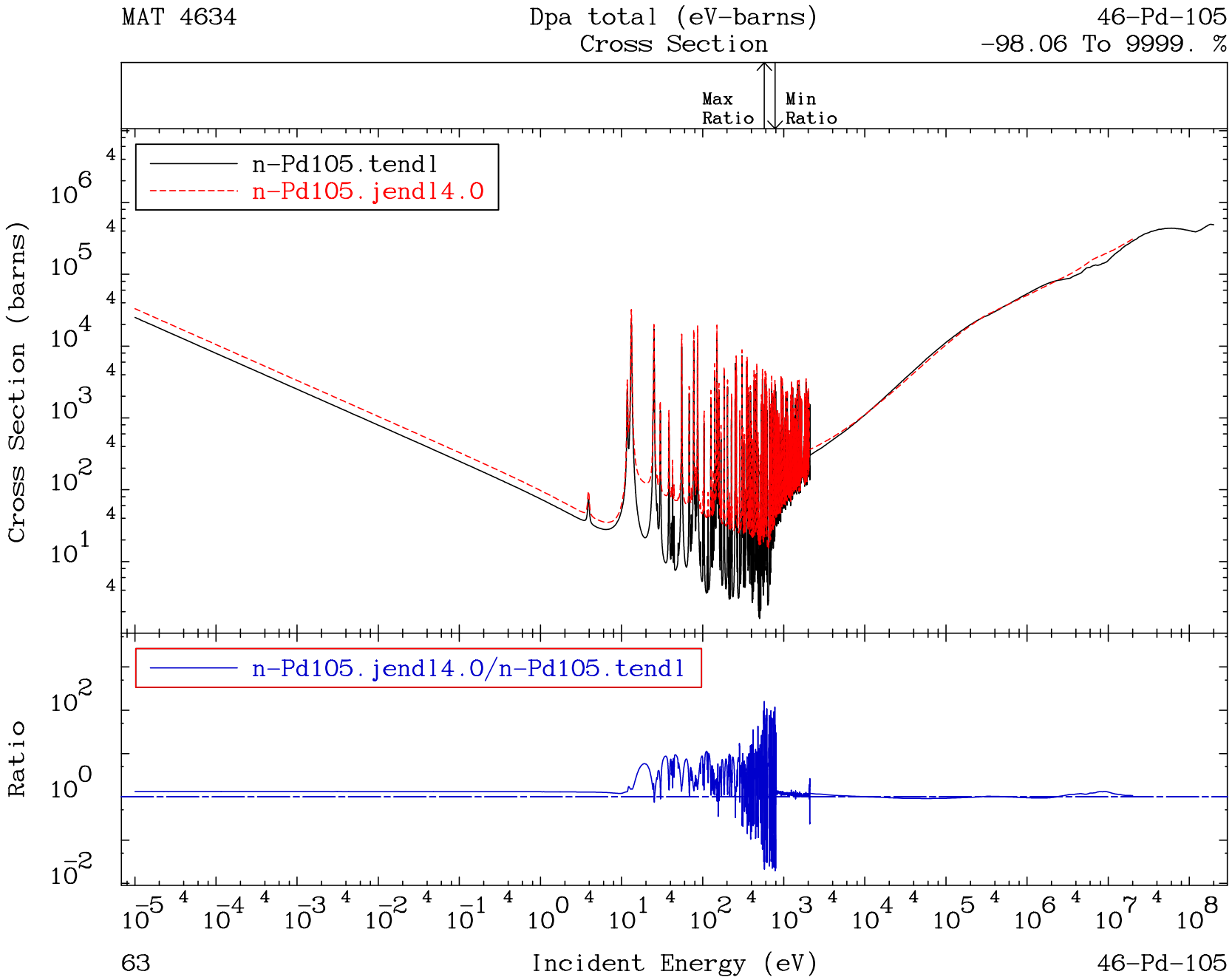

MAT 4634
Kerma inelastic (mt51-91)
Cross Section
46-Pd-105
-52.41 To 44.15 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 286.38 keV
n-Pd105.jendl4.0 Threshold 110.00 keV
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
58
46-Pd-105

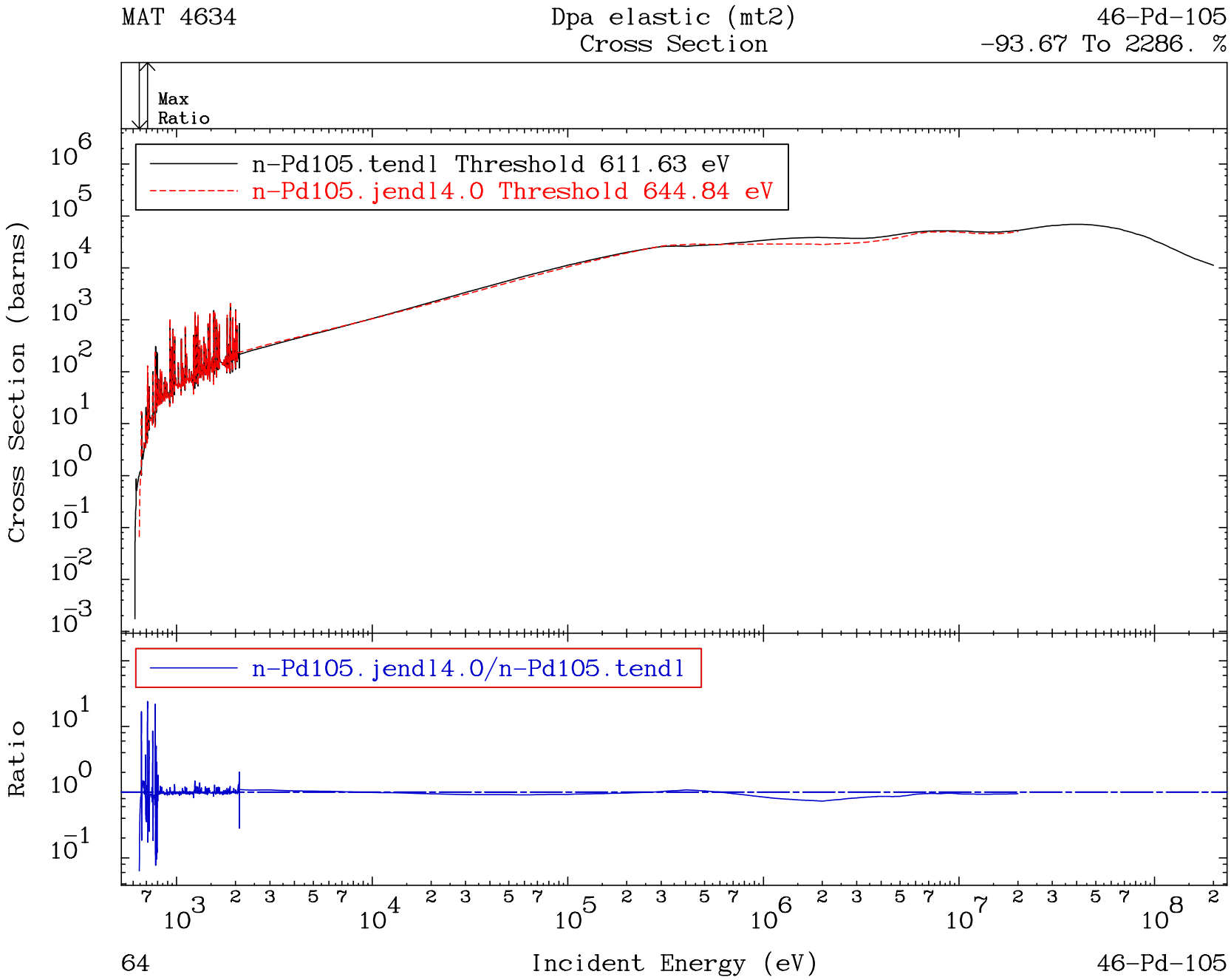

MAT 4634
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
46-Pd-105
-52.41 To 44.15 %
Min Ratio
Max Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
59
Incident Energy (eV)
46-Pd-105

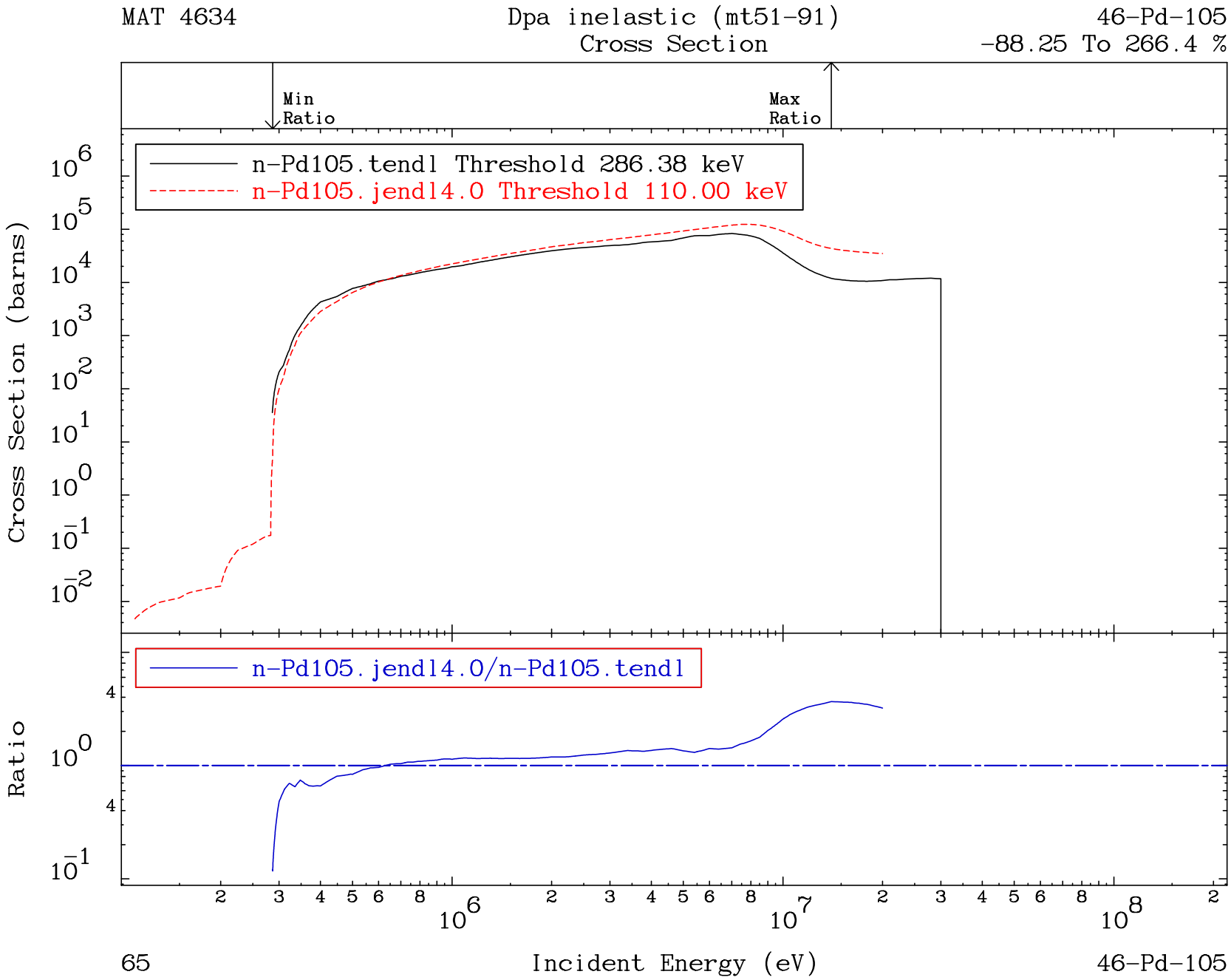

MAT 4634
Kerma capture (mt102)
Cross Section
46-Pd-105
-99.56 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
60
46-Pd-105

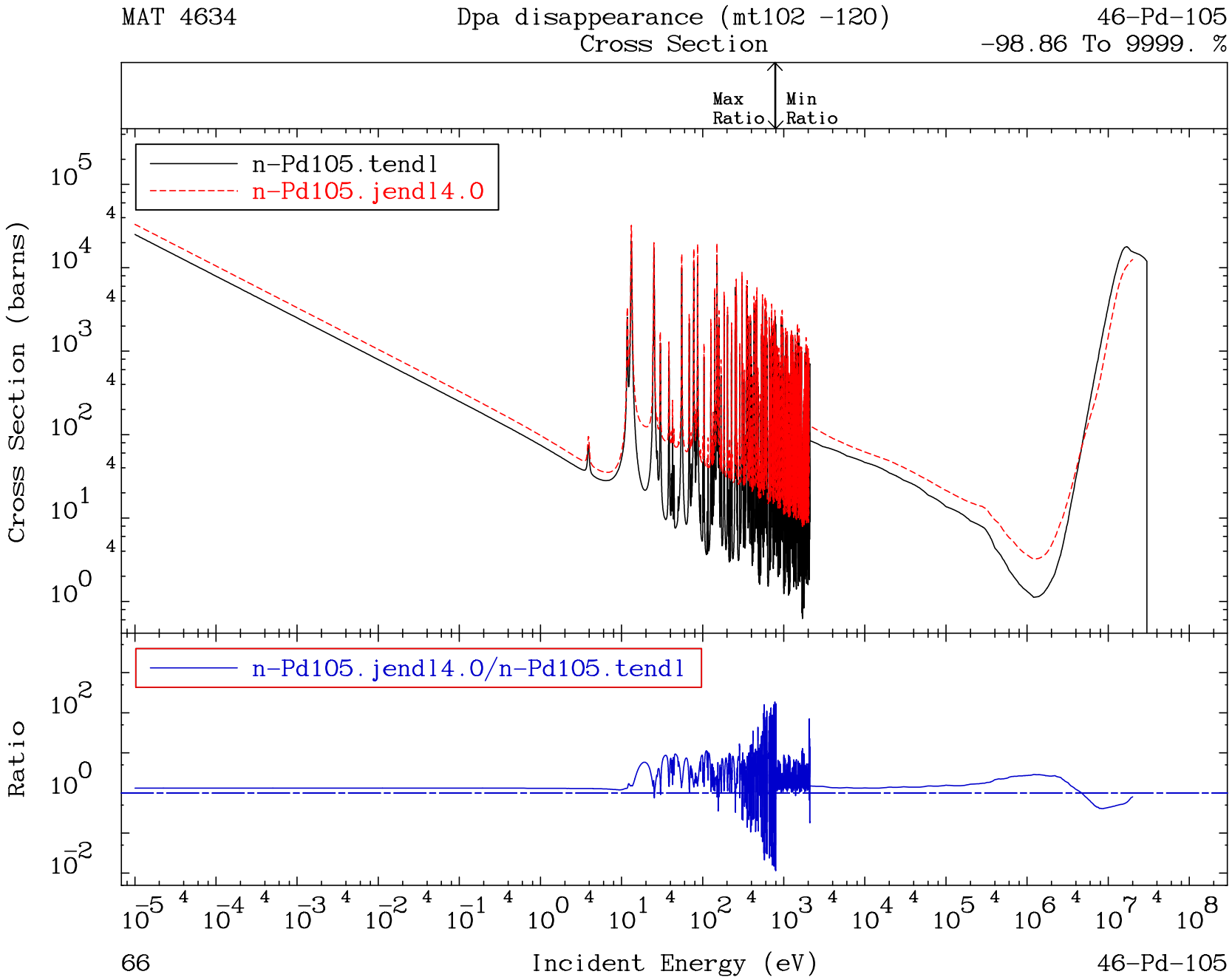

MAT 4634
Total photon (eV-barns)
Cross Section
46-Pd-105
-99.56 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
61
46-Pd-105


MAT 4634
Total kinematic kerma (high limit)
Cross Section
46-Pd-105
-99.56 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
62
46-Pd-105


MAT 4634
Dpa total (eV-barns)
Cross Section
46-Pd-105
-98.06 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
63
Incident Energy (eV)
46-Pd-105


MAT 4634
Dpa elastic (mt2)
Cross Section
46-Pd-105
-93.67 To 2286. %
Max
Ratio
n-Pd105.tendl Threshold 611.63 eV
n-Pd105.jendl4.0 Threshold 644.84 eV
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
64
Incident Energy (eV)
46-Pd-105


MAT 4634
Dpa inelastic (mt51-91)
Cross Section
46-Pd-105
-88.25 To 266.4 %
Min Ratio
Max Ratio
n-Pd105.tendl Threshold 286.38 keV
n-Pd105.jendl4.0 Threshold 110.00 keV
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
Incident Energy (eV)
65
46-Pd-105


MAT 4634
Dpa disappearance (mt102 -120)
Cross Section
46-Pd-105
-98.86 To 9999. %
Max Ratio
Min Ratio
n-Pd105.tendl
n-Pd105.jendl4.0
Cross Section (barns)
n-Pd105.jendl4.0/n-Pd105.tendl
Ratio
66
Incident Energy (eV)
46-Pd-105