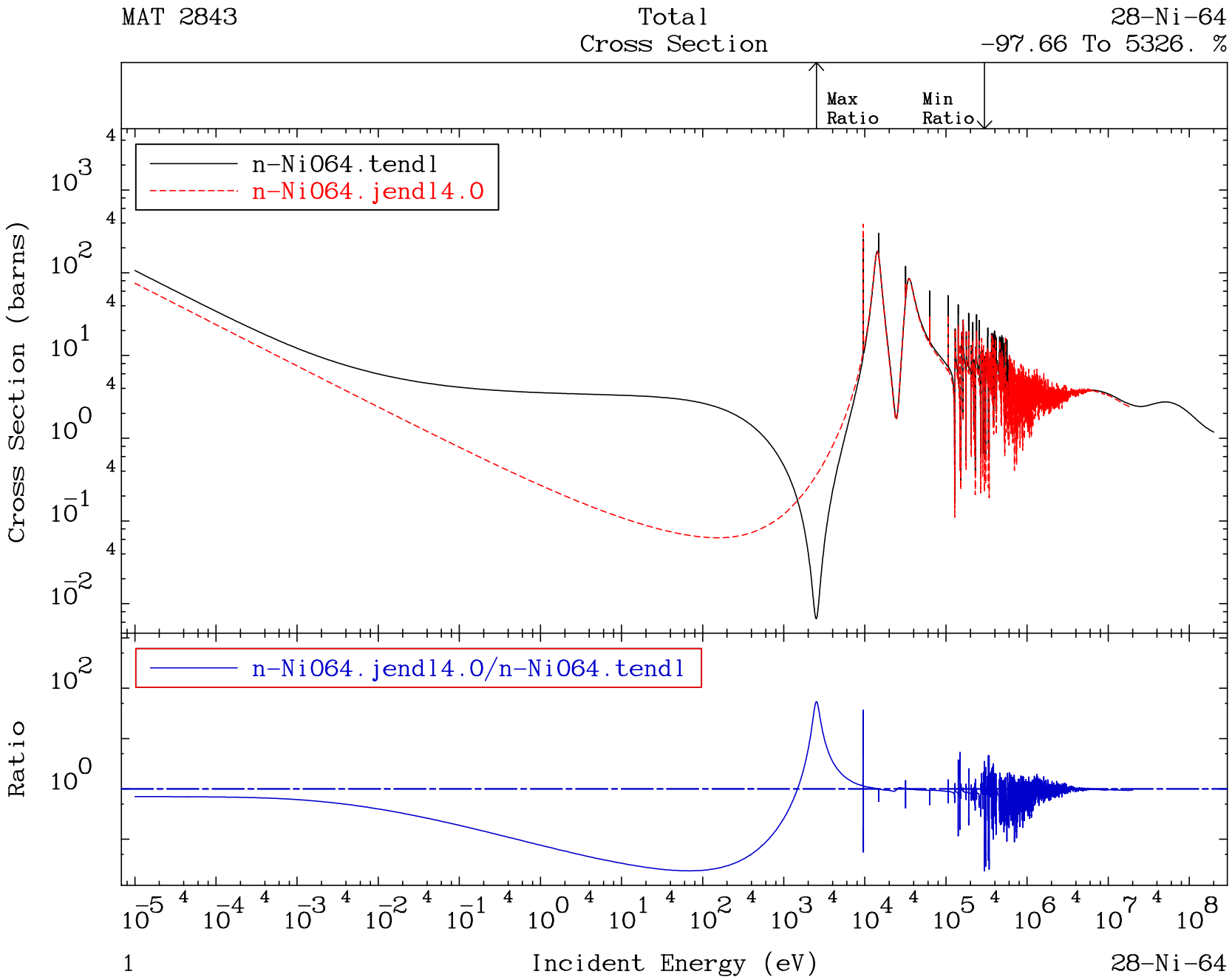
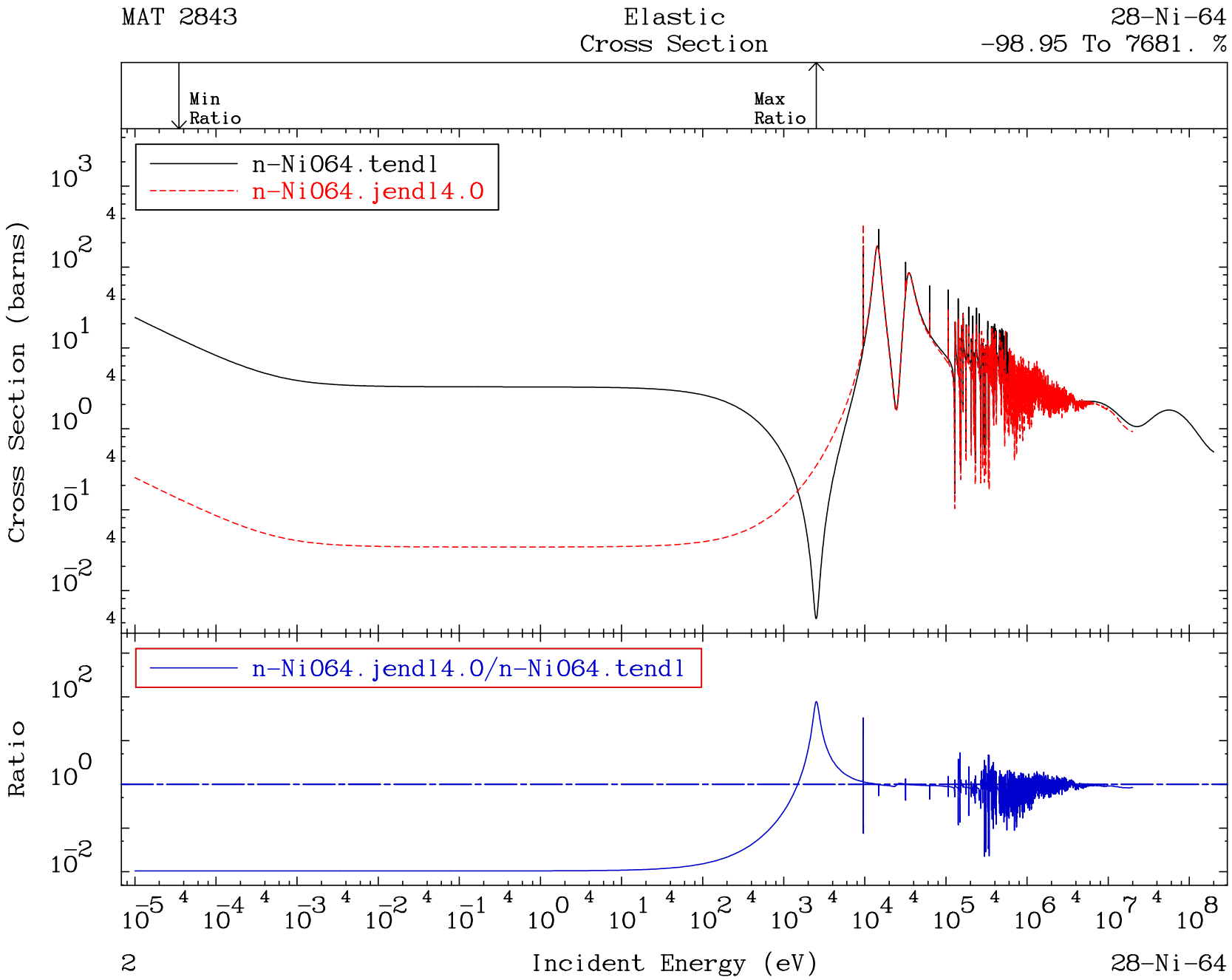
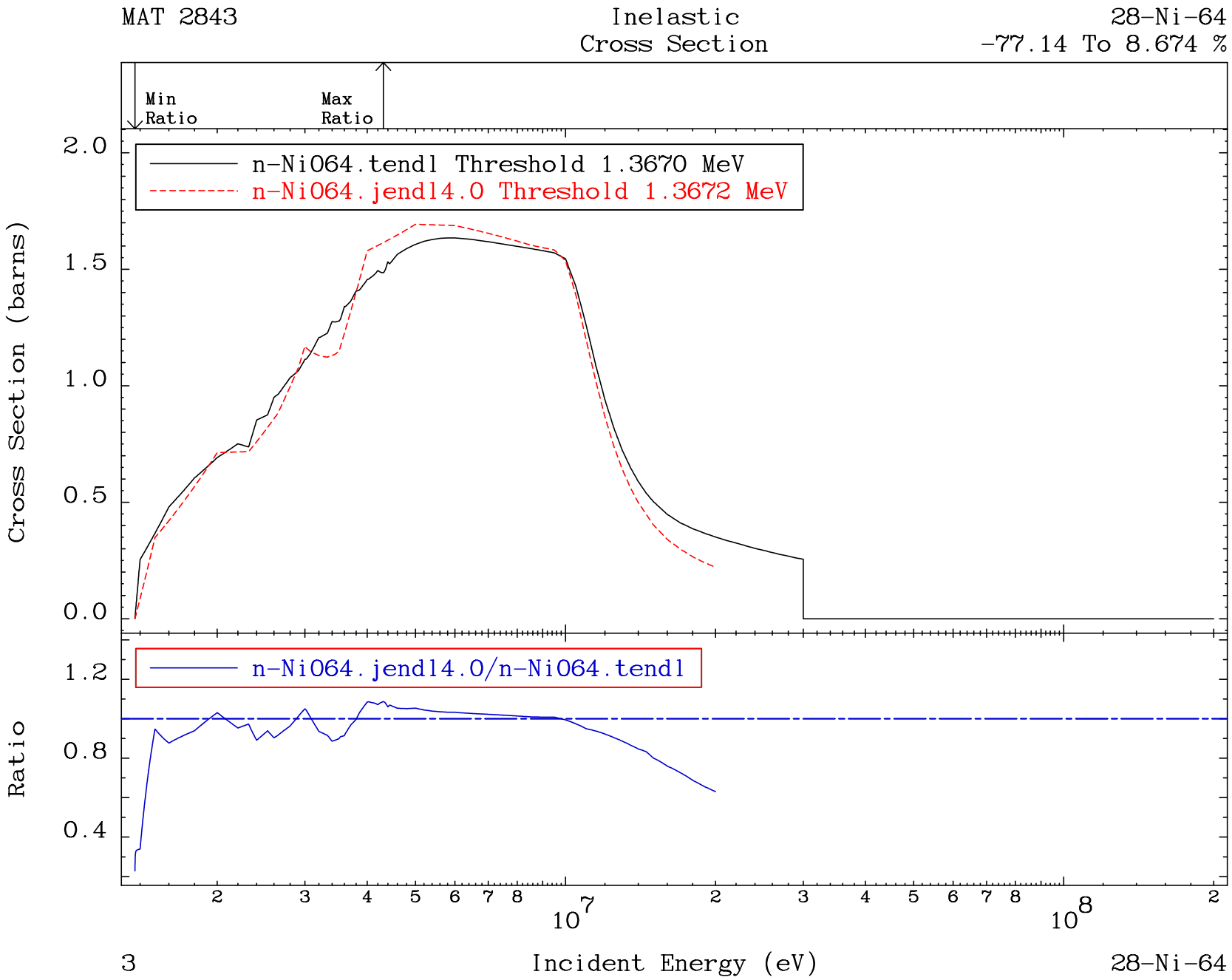
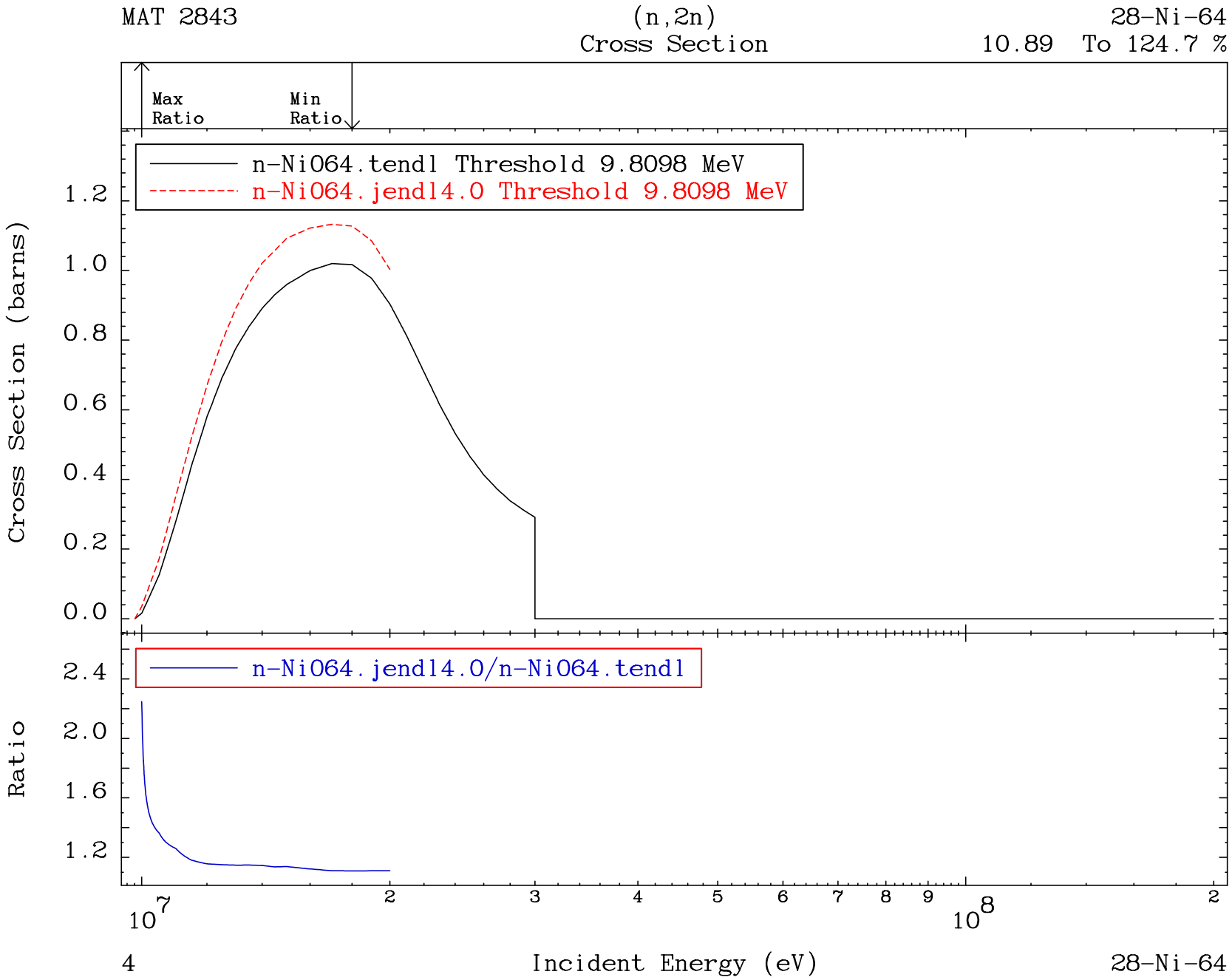
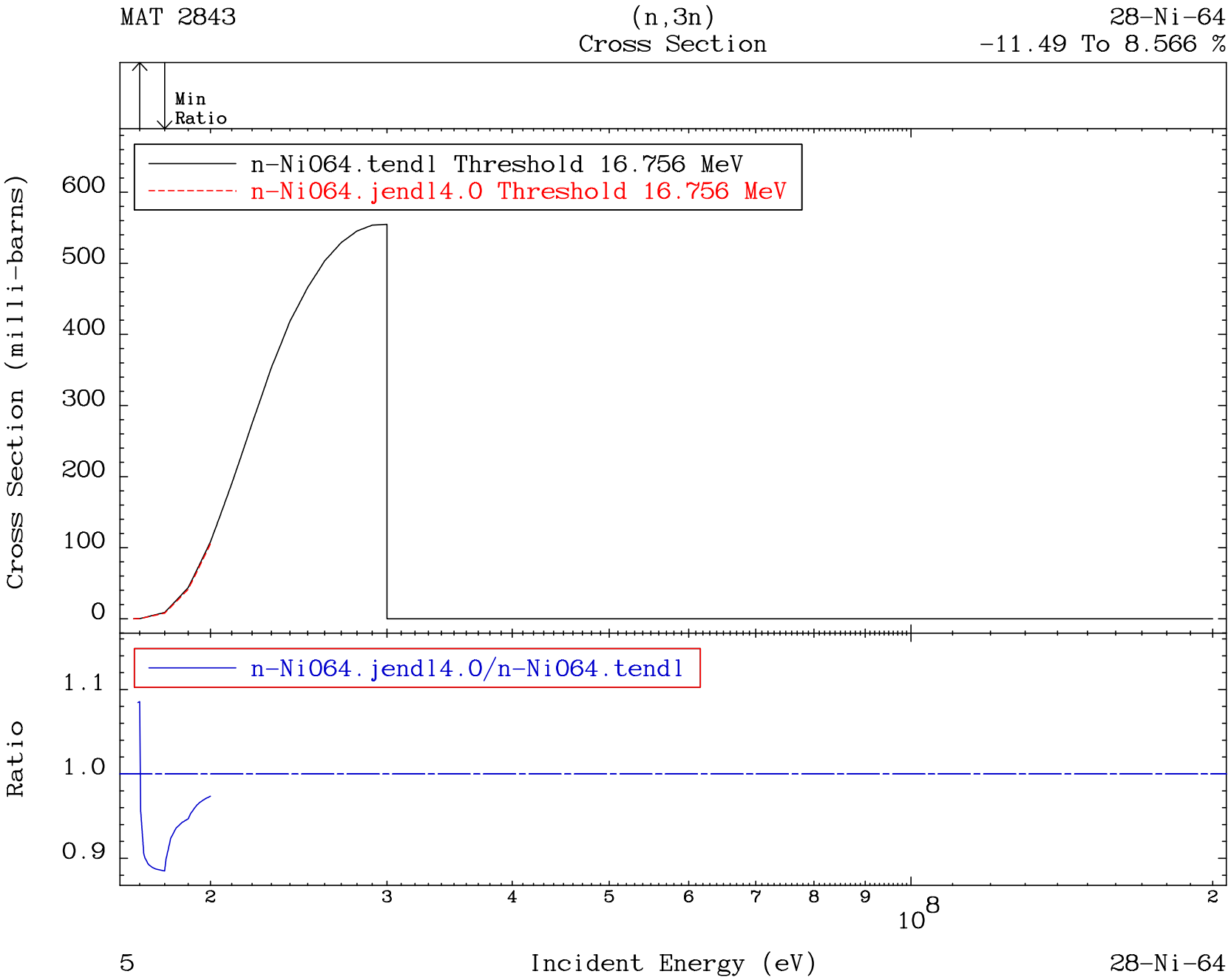
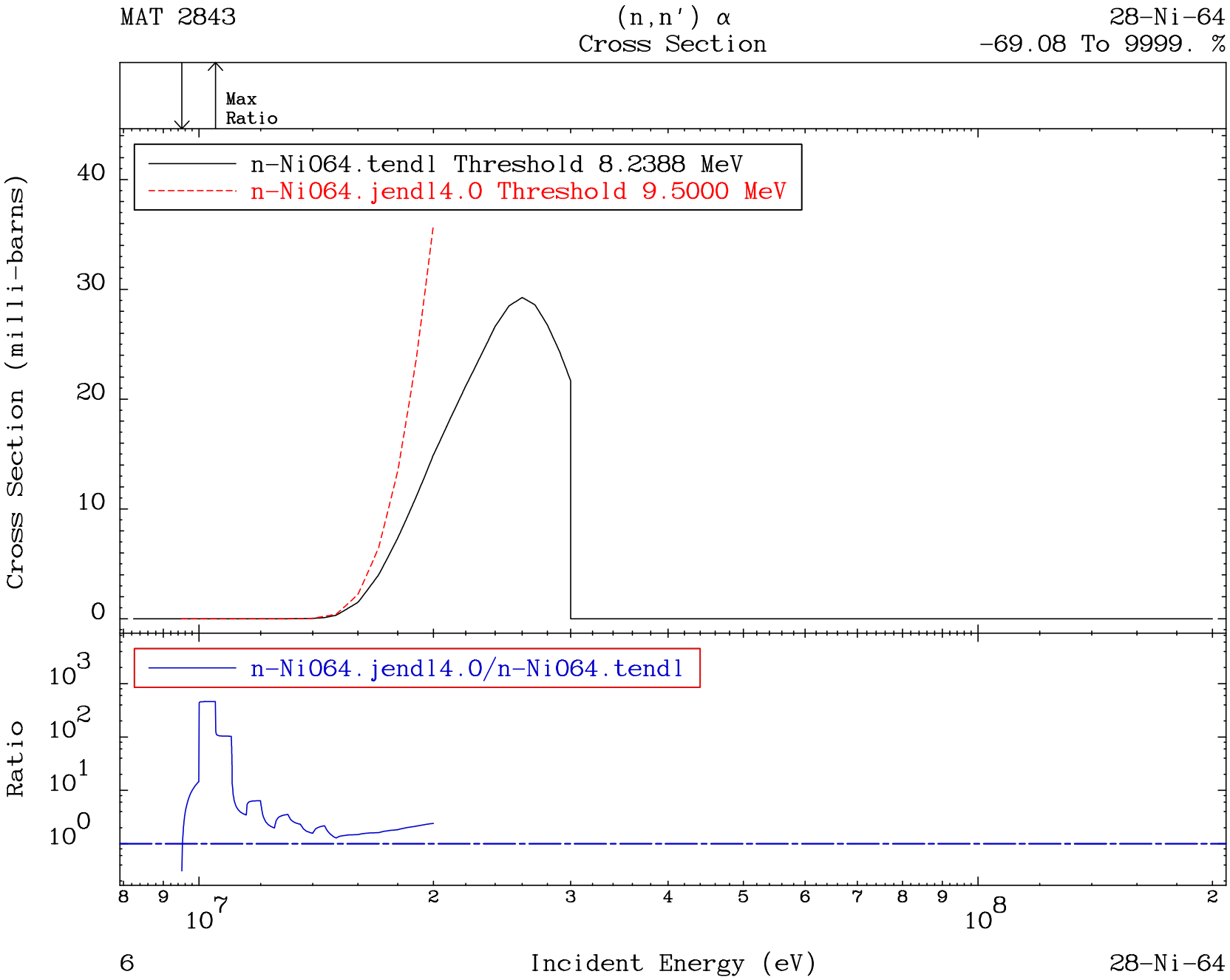

MAT 2843
Total
Cross Section
28-Ni-64
-97.66 To 5326. %
Max Ratio
Min Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
1
28-Ni-64

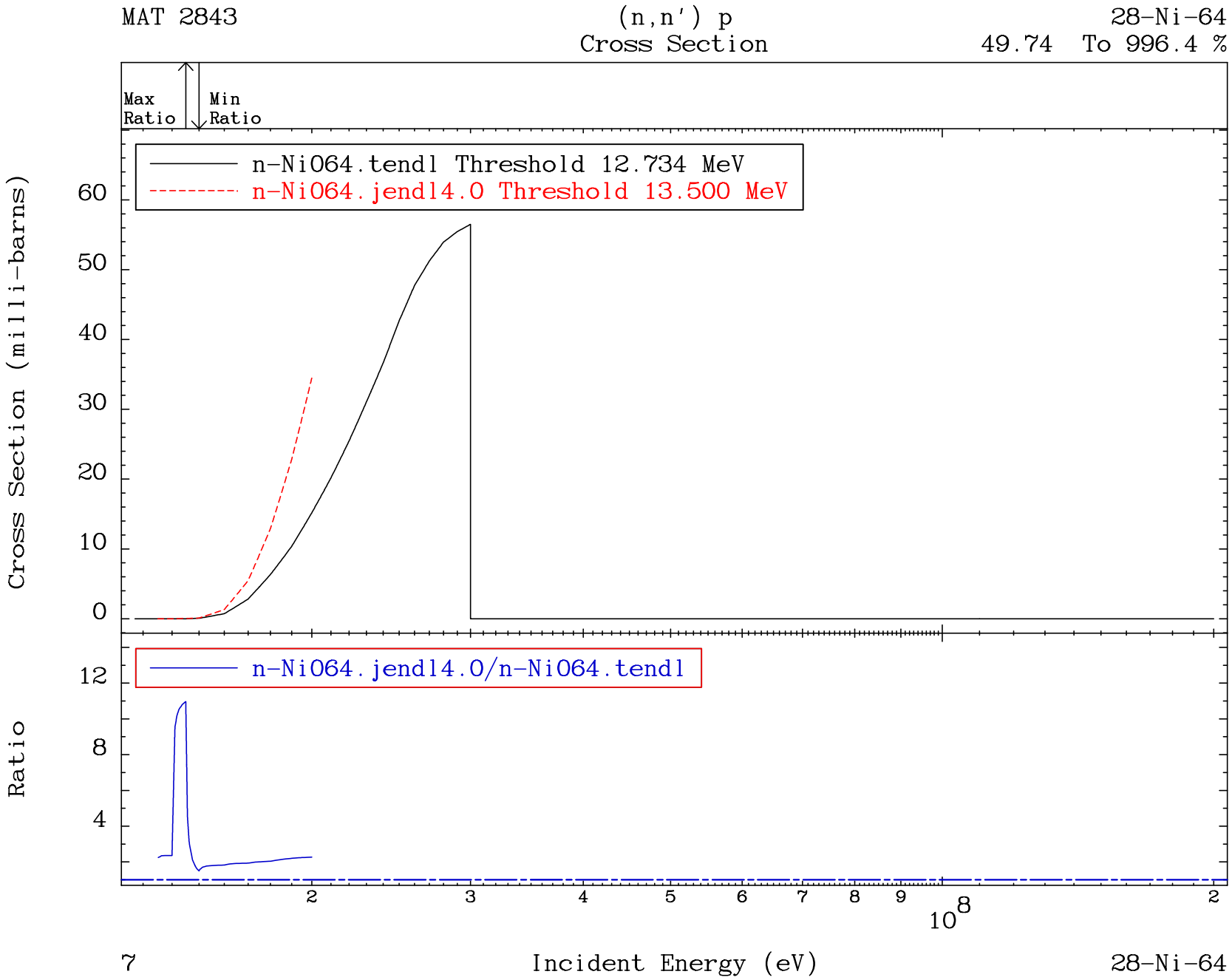

MAT 2843
Elastic
Cross Section
28-Ni-64
-98.95 To 7681. %
Min
Ratio
Max
Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
2
28-Ni-64

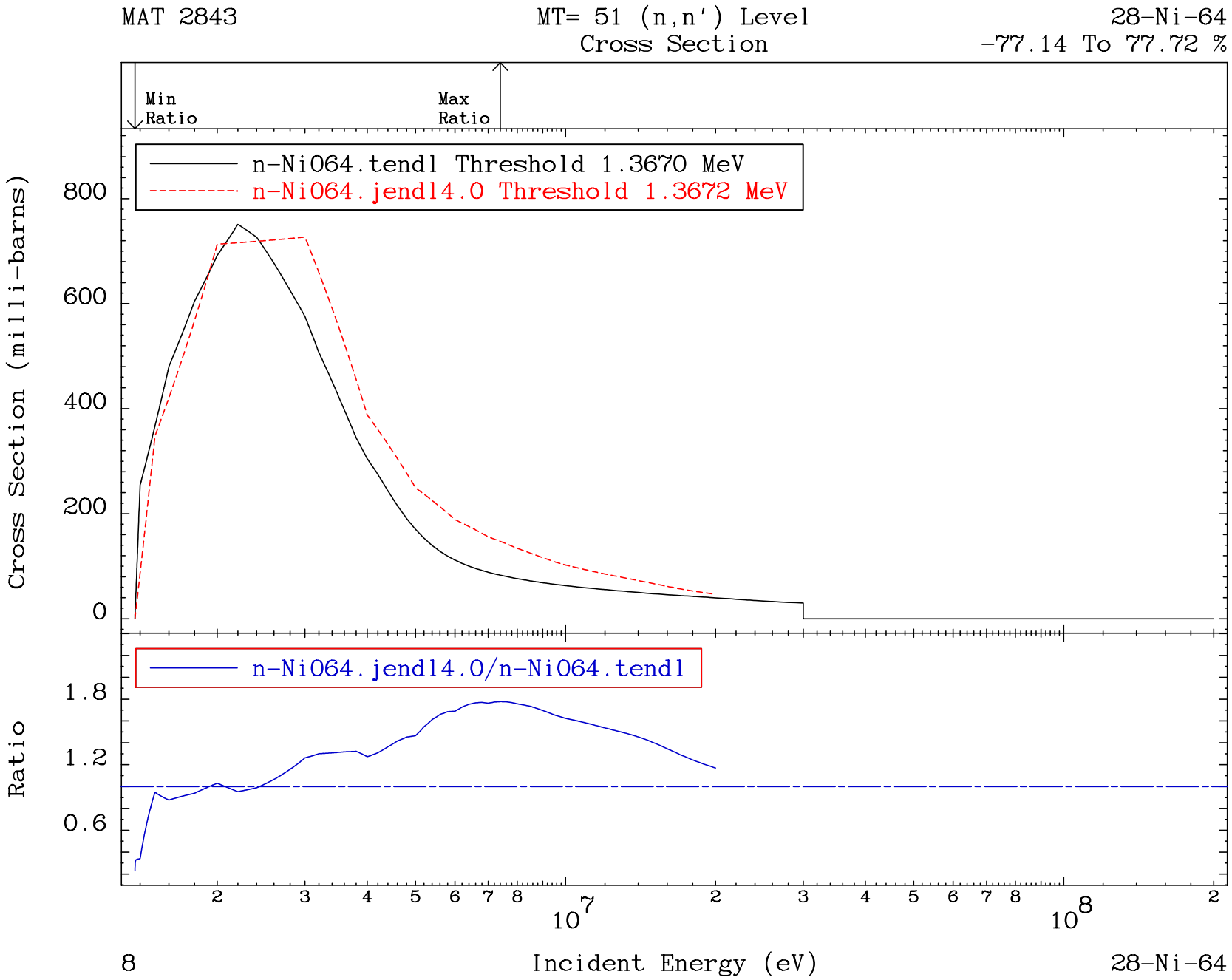

MAT 2843
Inelastic
Cross Section
28-Ni-64
-77.14 To 8.674 %
Min Ratio
Max Ratio
n-Ni064.tendl Threshold 1.3670 MeV
n-Ni064.jendl4.0 Threshold 1.3672 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
1.2
0.8
0.4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
28-Ni-64

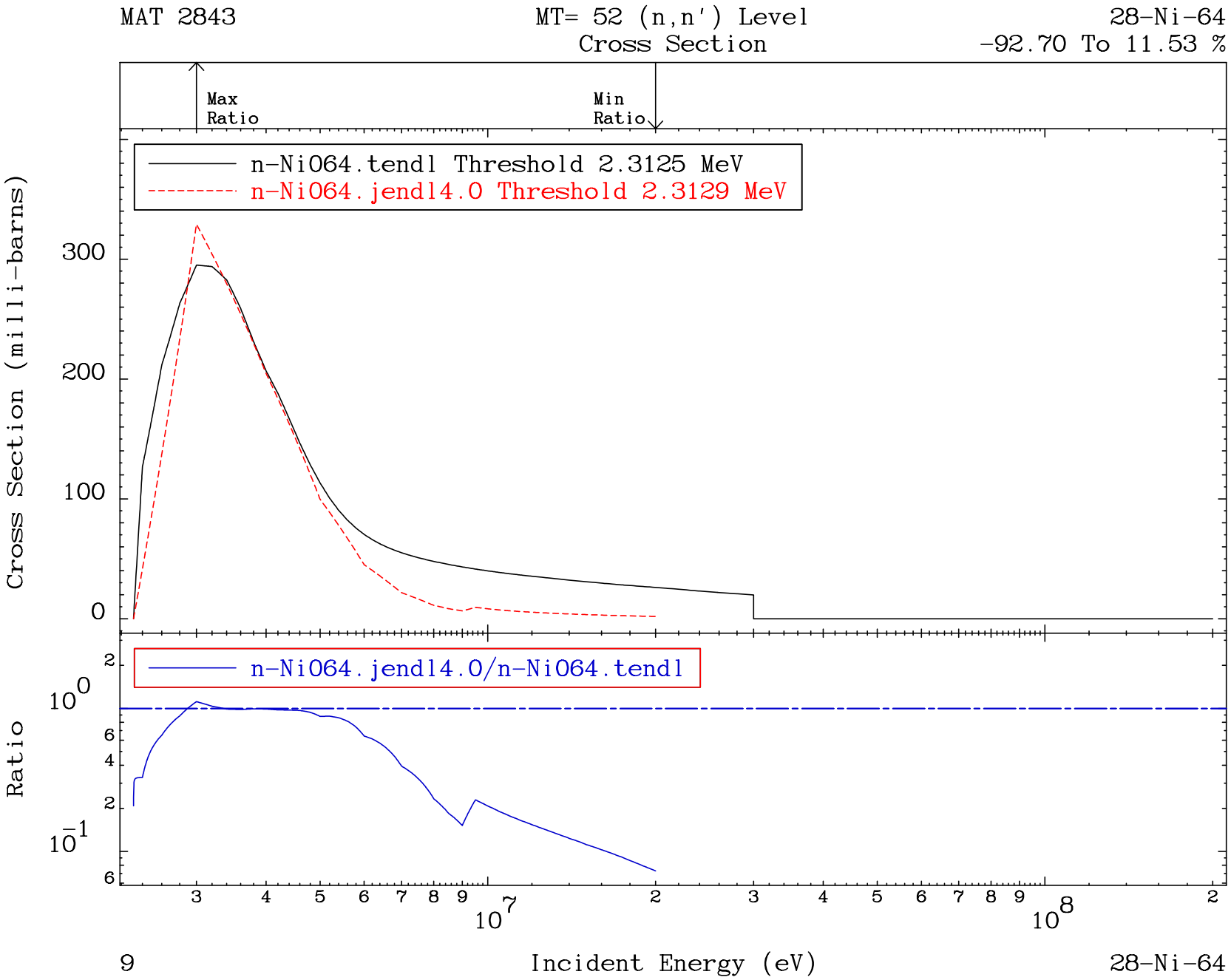

MAT 2843
(n,2n)
Cross Section
28-Ni-64
10.89 To 124.7 %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 9.8098 MeV
n-Ni064.jendl4.0 Threshold 9.8098 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
2.4
2.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
28-Ni-64

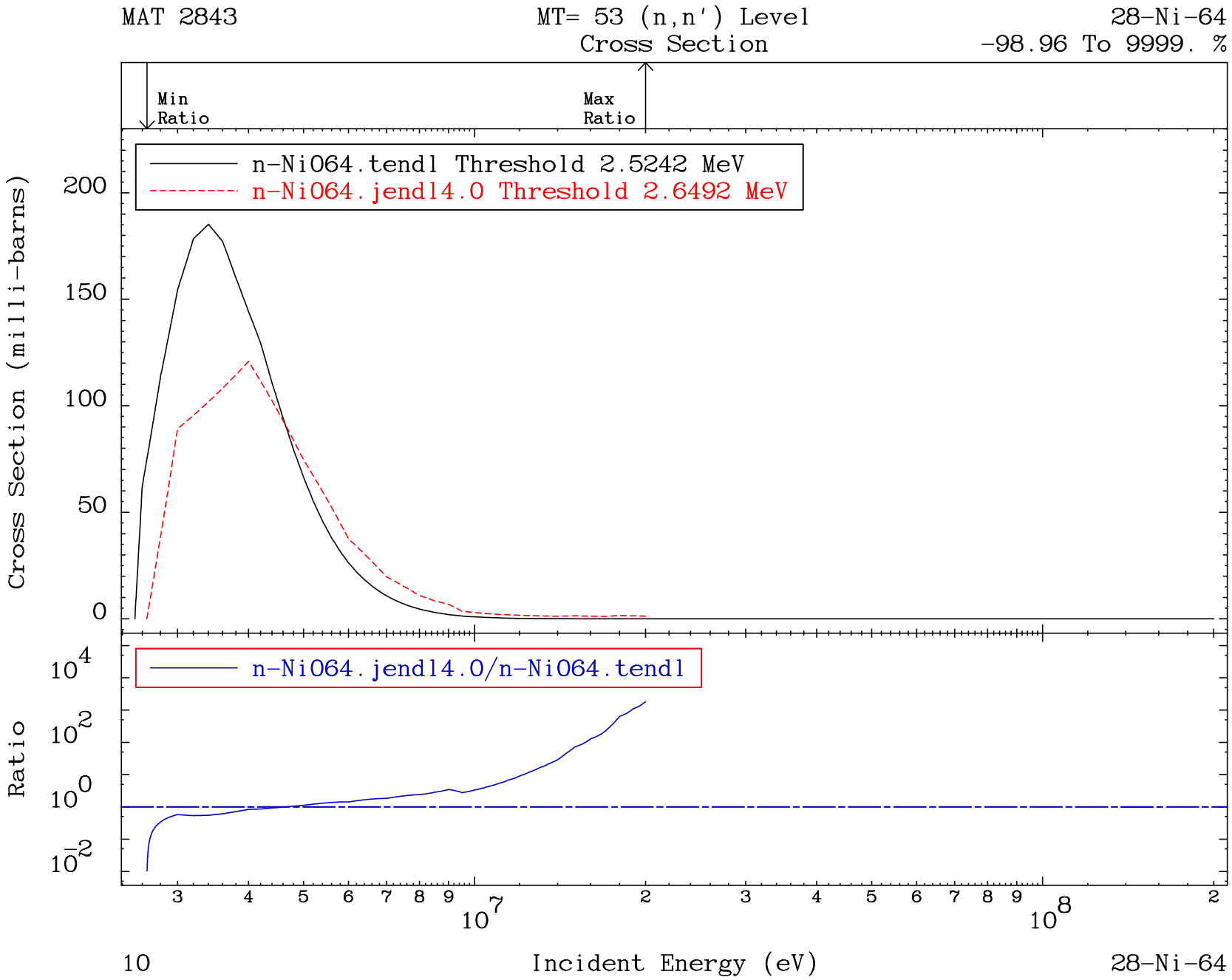

MAT 2843
(n,3n)
Cross Section
28-Ni-64
-11.49 To 8.566 %
Min
Ratio
n-Ni064.tendl Threshold 16.756 MeV
n-Ni064.jendl4.0 Threshold 16.756 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
28-Ni-64

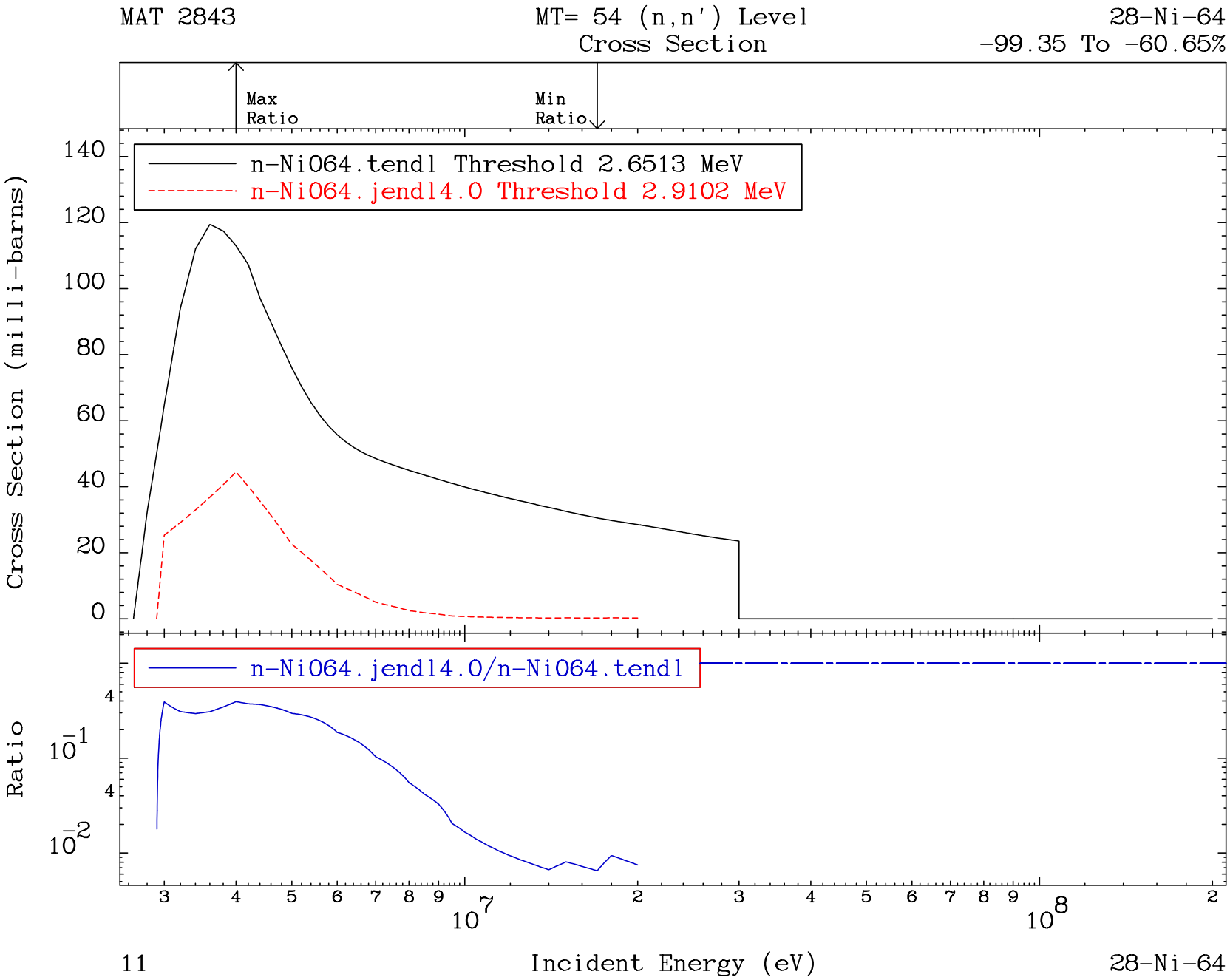

MAT 2843
(n,n') α
Cross Section
28-Ni-64
-69.08 To 9999. %
Max
Ratio
n-Ni064.tendl Threshold 8.2388 MeV
n-Ni064.jendl4.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
28-Ni-64

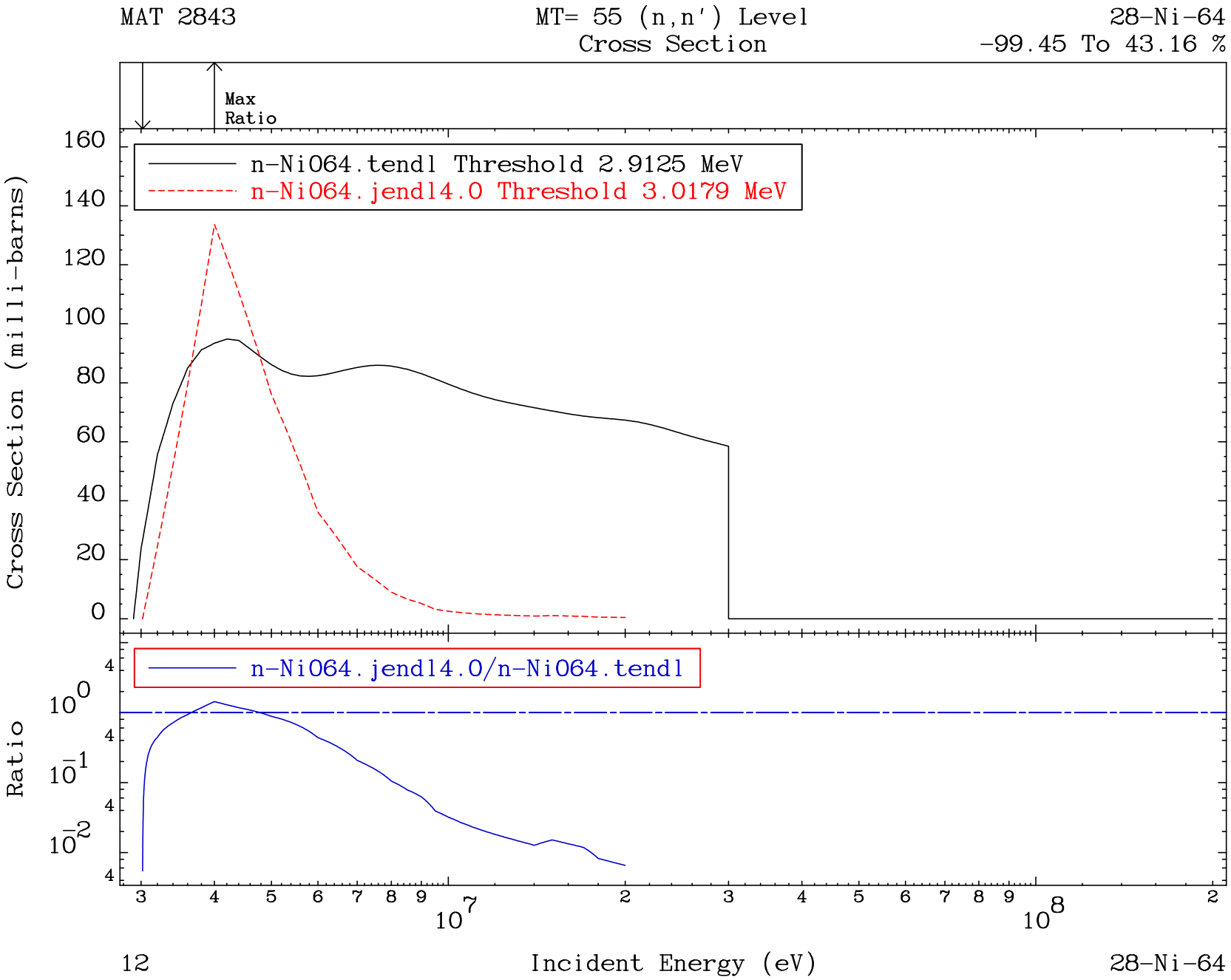

MAT 2843
(n,n') p
Cross Section
28-Ni-64
49.74 To 996.4 %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 12.734 MeV
n-Ni064.jendl4.0 Threshold 13.500 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
12
8
4
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
28-Ni-64

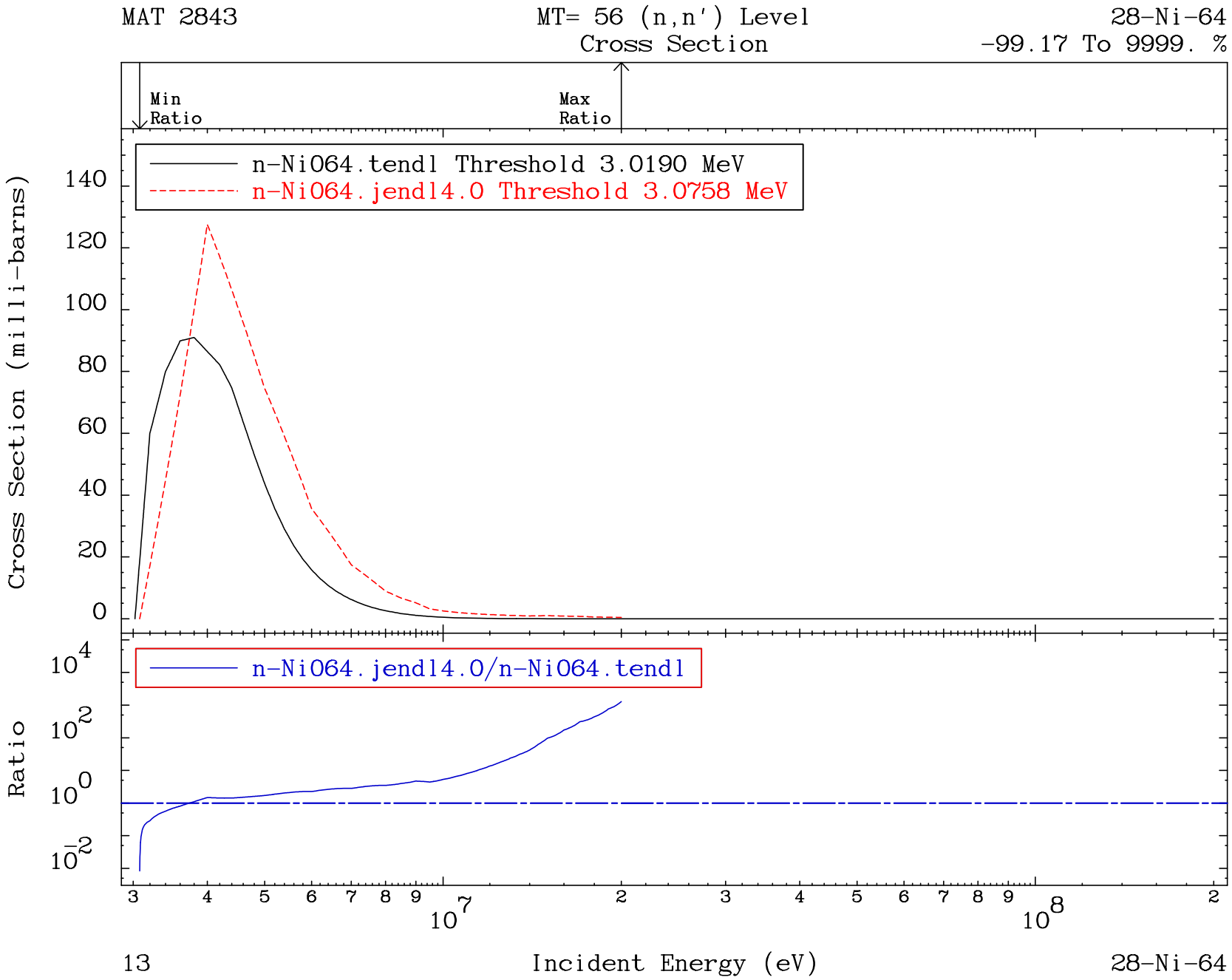

MAT 2843
MT= 51 (n,n') Level
Cross Section
28-Ni-64
-77.14 To 77.72 %
Min Ratio
Max Ratio
n-Ni064.tendl Threshold 1.3670 MeV
n-Ni064.jendl4.0 Threshold 1.3672 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
1.8
1.2
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
28-Ni-64

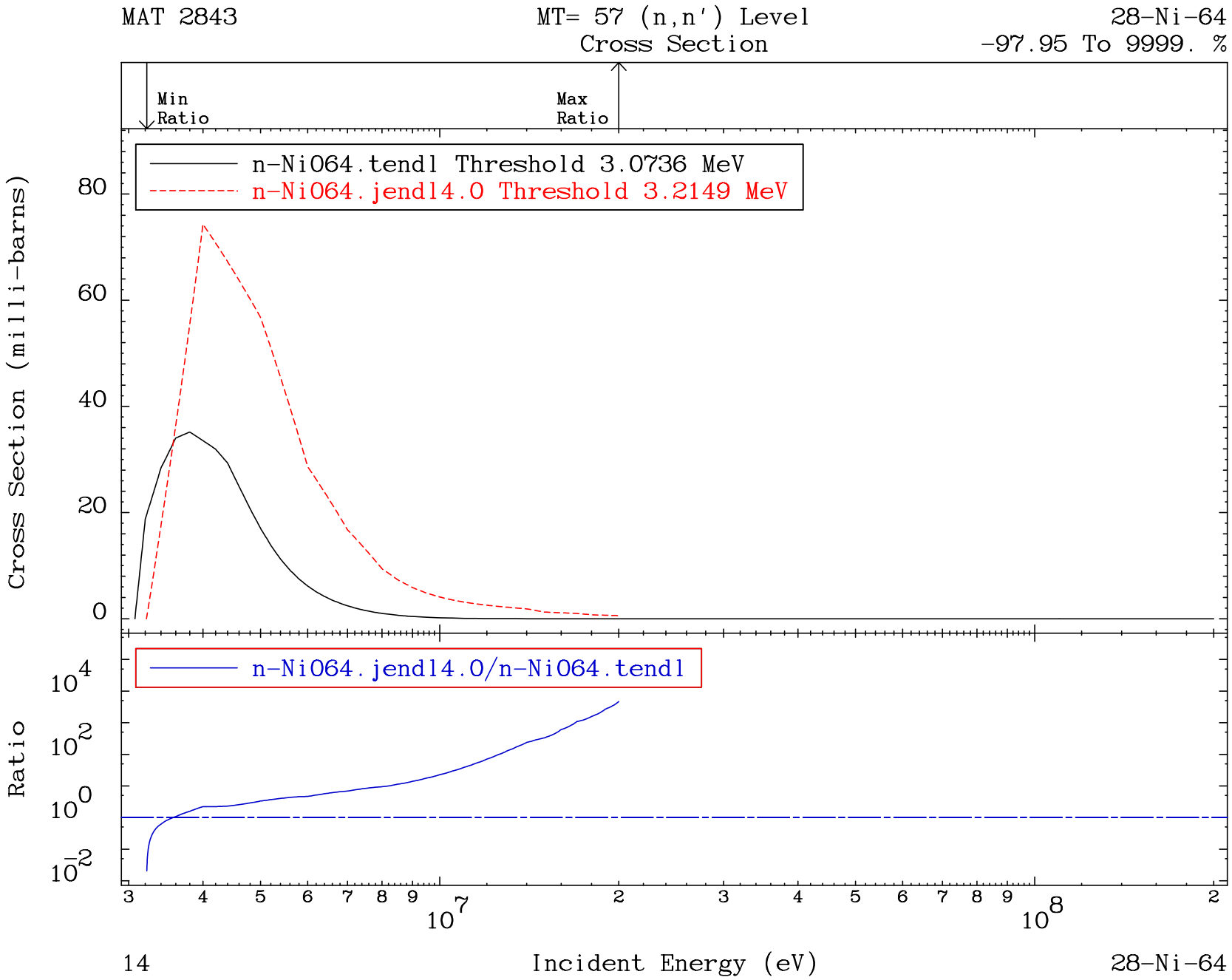

MAT 2843
MT= 52 (n,n') Level
Cross Section
28-Ni-64
-92.70 To 11.53 %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 2.3125 MeV
n-Ni064.jendl4.0 Threshold 2.3129 MeV
Cross Section (milli-barns)
300
200
100
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
2
10^0
6
4
2
10^-1
6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
28-Ni-64

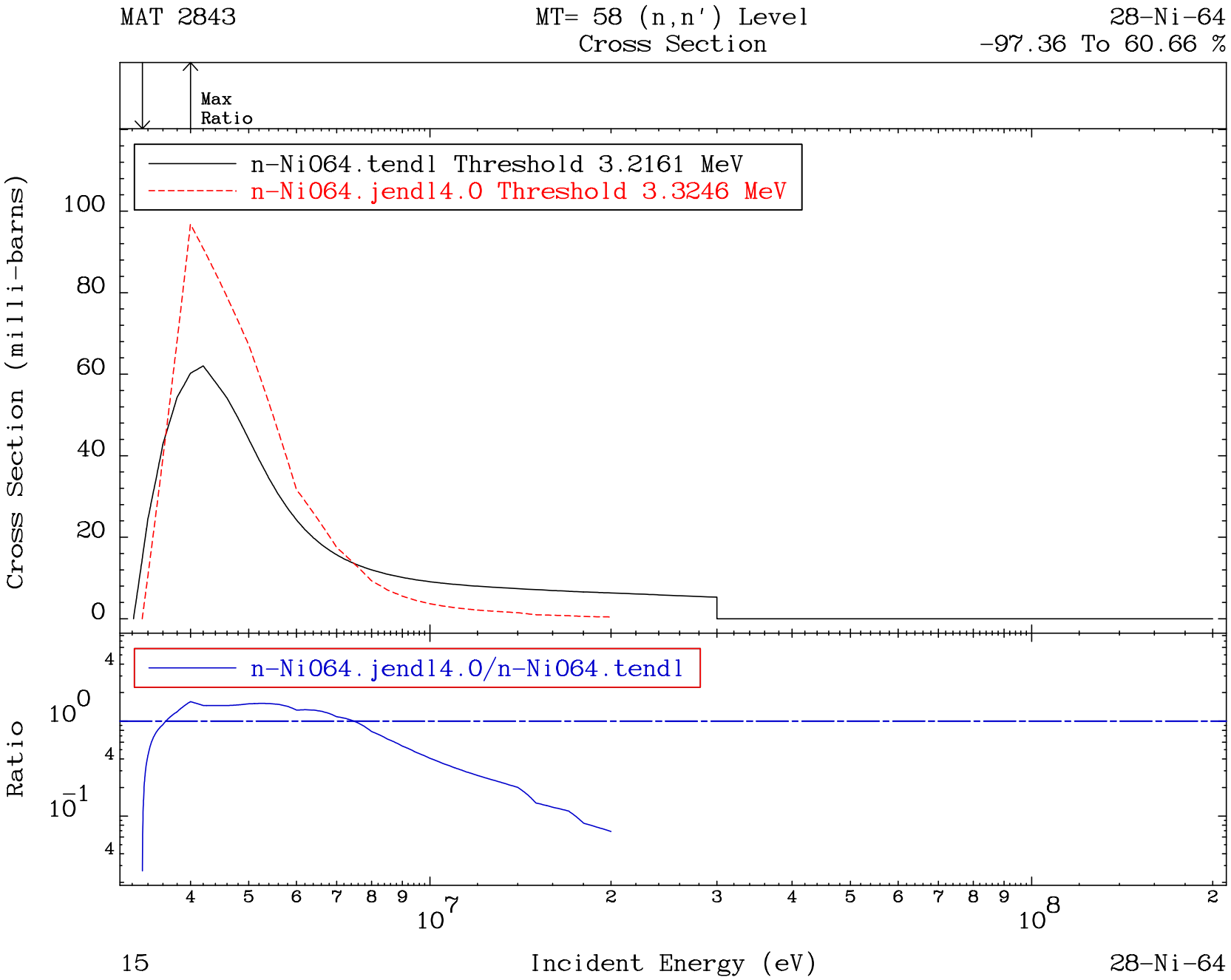

MAT 2843
MT= 53 (n,n') Level
Cross Section
28-Ni-64
-98.96 To 9999. %
Min
Ratio
Max
Ratio
n-Ni064.tendl Threshold 2.5242 MeV
n-Ni064.jendl4.0 Threshold 2.6492 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
28-Ni-64

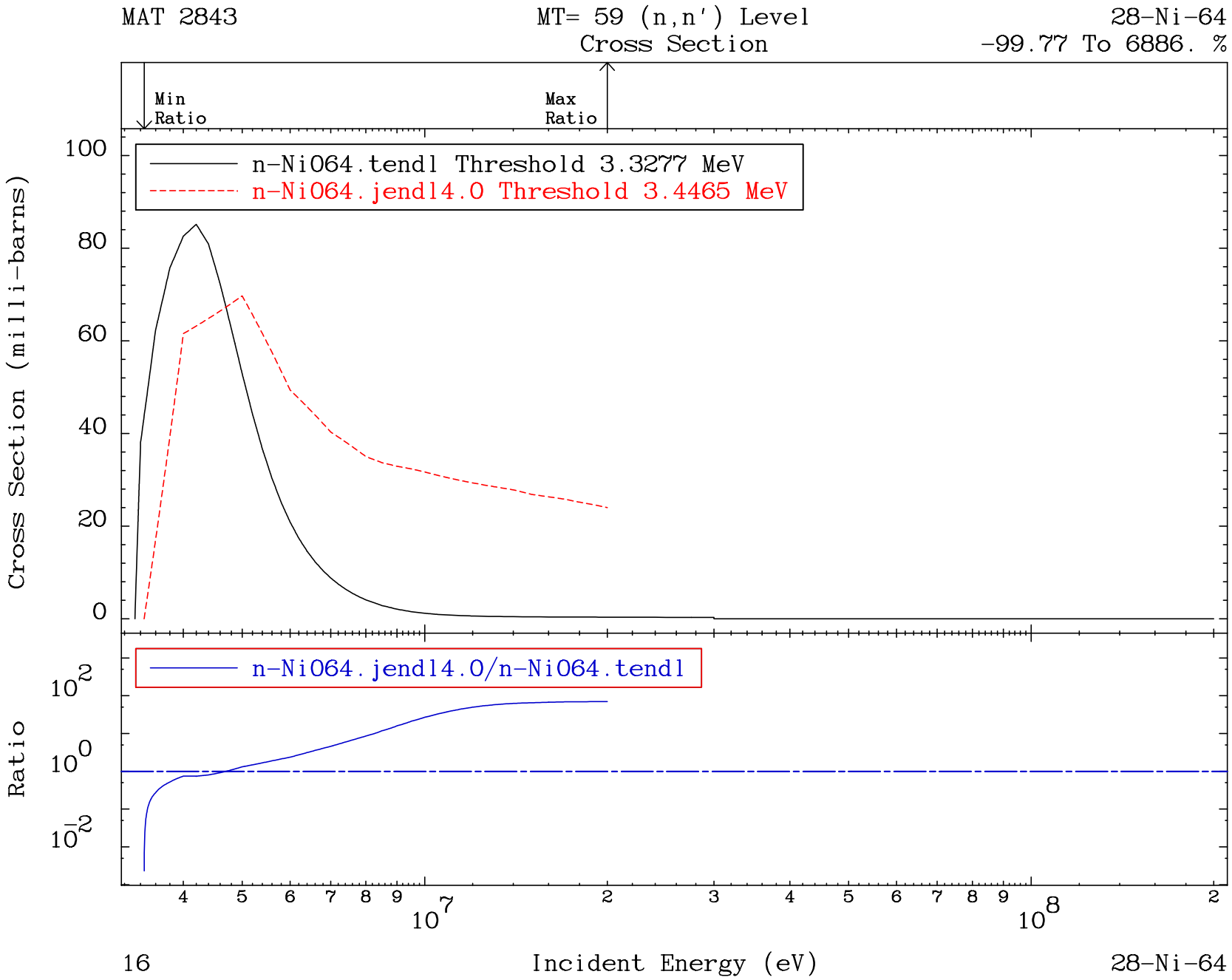

MAT 2843
MT= 54 (n,n') Level
Cross Section
28-Ni-64
-99.35 To -60.65%
Max
Ratio
Min
Ratio
n-Ni064.tendl Threshold 2.6513 MeV
n-Ni064.jendl4.0 Threshold 2.9102 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
4
10-1
4
10-2
3
4
5
6
7
8
9
10 7
2
3
4
5
6
7
8
9
10 8
2
11
Incident Energy (eV)
28-Ni-64

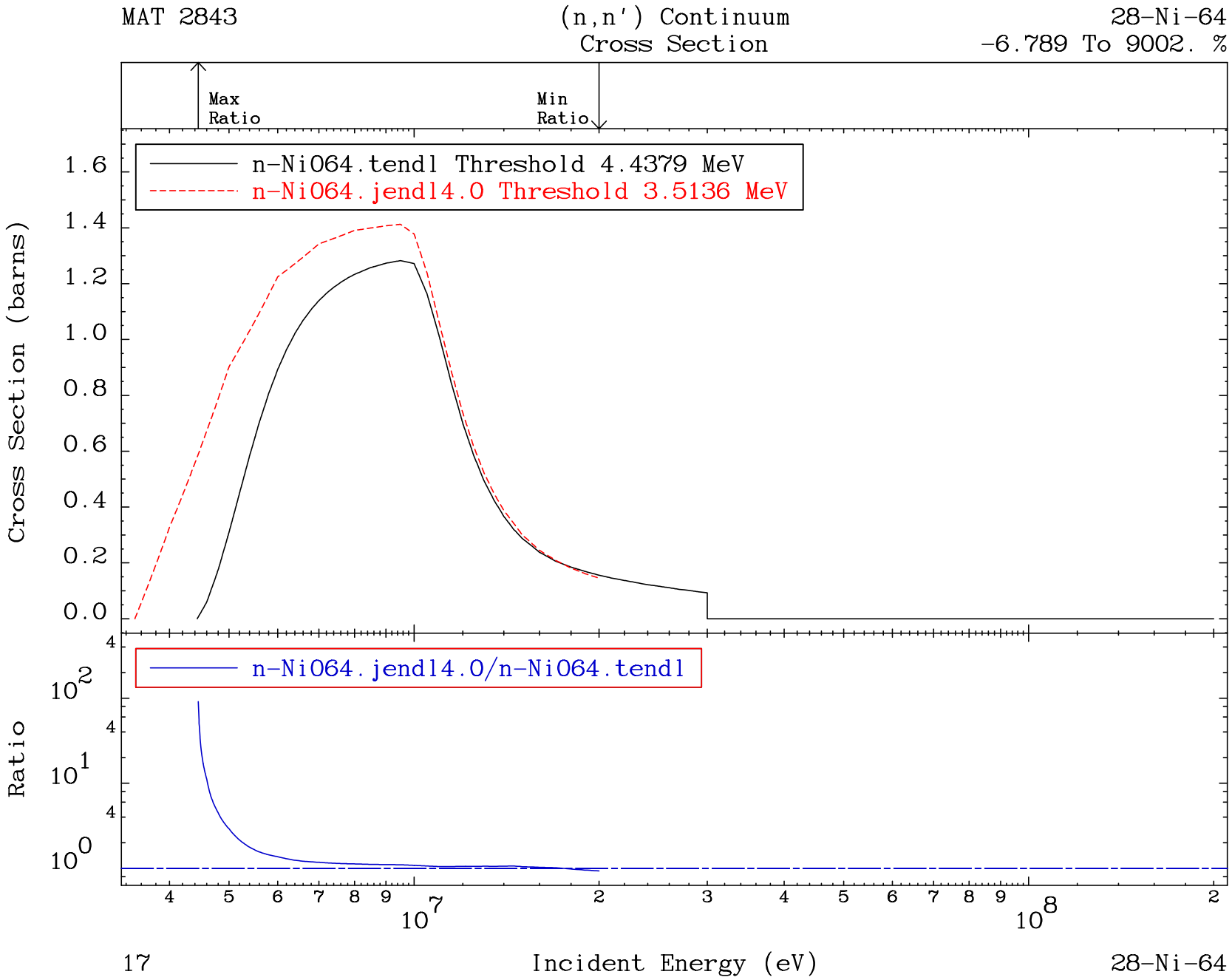

MAT 2843
MT= 55 (n,n') Level
Cross Section
28-Ni-64
-99.45 To 43.16 %
Max
Ratio
n-Ni064.tendl Threshold 2.9125 MeV
n-Ni064.jendl4.0 Threshold 3.0179 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^{0}
10^{-1}
10^{-2}
3 4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
12
Incident Energy (eV)
28-Ni-64

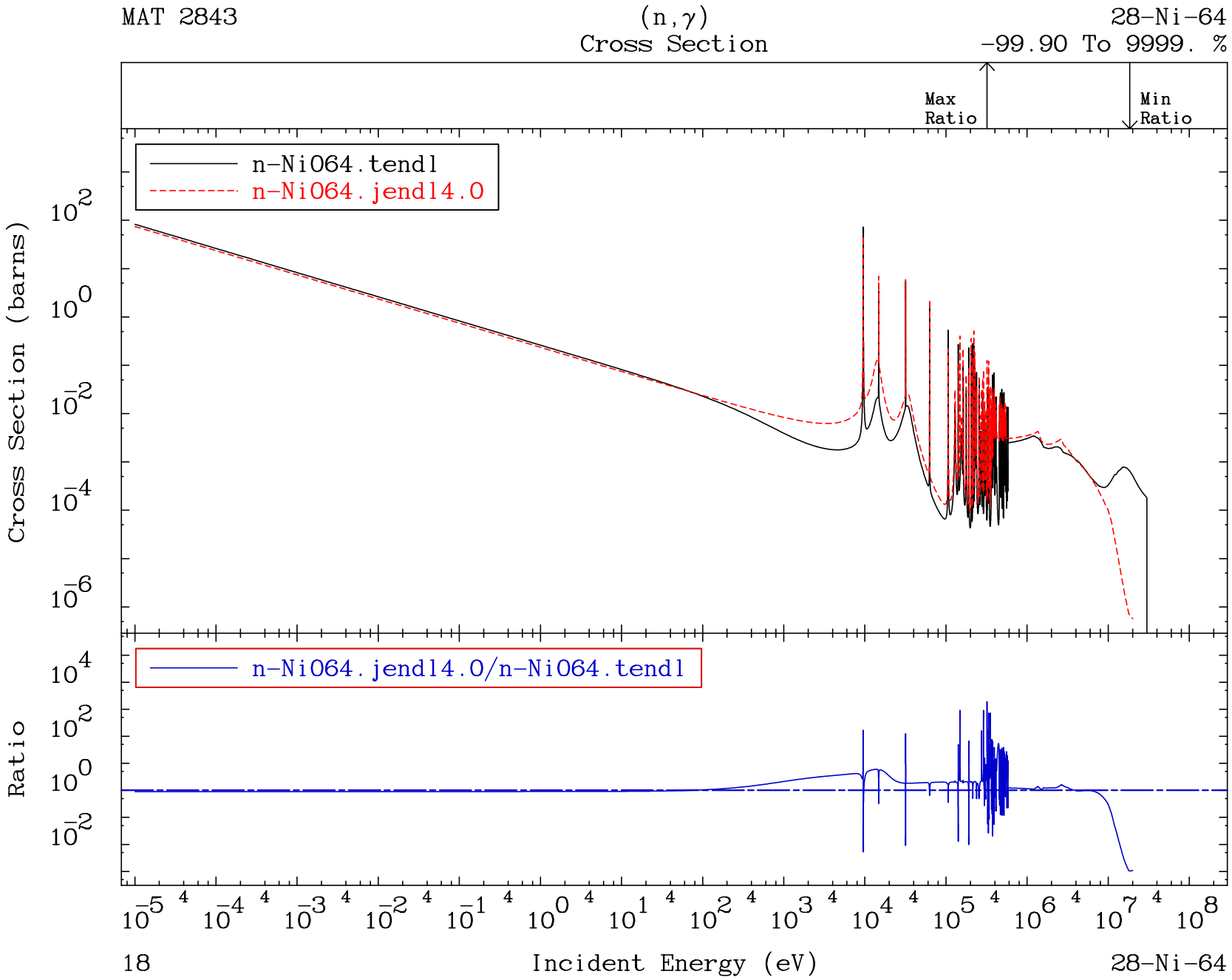

MAT 2843
MT= 56 (n,n') Level
Cross Section
28-Ni-64
-99.17 To 9999. %
Min Ratio
Max Ratio
n-Ni064.tendl Threshold 3.0190 MeV
n-Ni064.jendl4.0 Threshold 3.0758 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
28-Ni-64

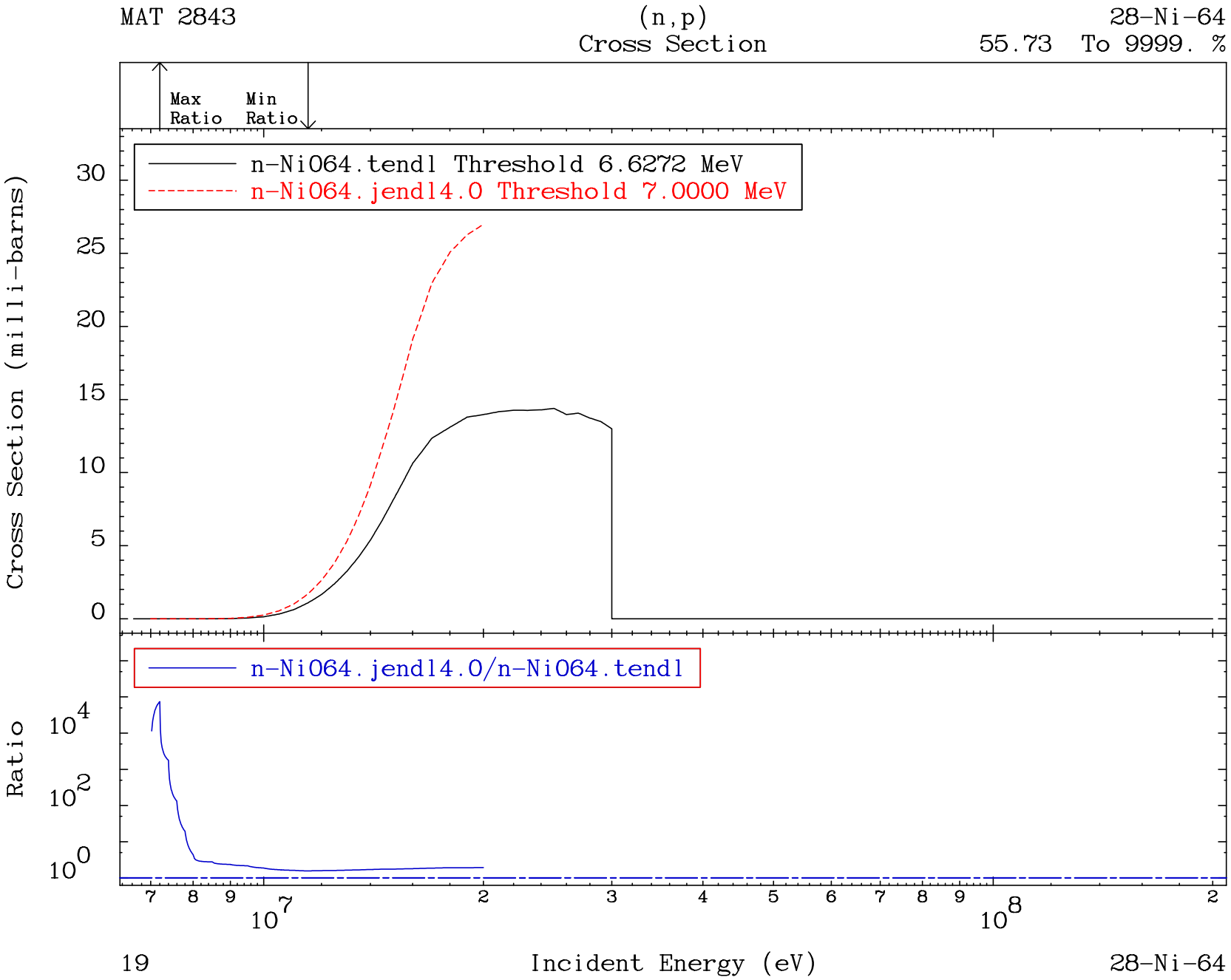

MAT 2843
MT= 57 (n,n') Level
Cross Section
28-Ni-64
-97.95 To 9999. %
Min
Ratio
Max
Ratio
n-Ni064.tendl Threshold 3.0736 MeV
n-Ni064.jendl4.0 Threshold 3.2149 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
28-Ni-64

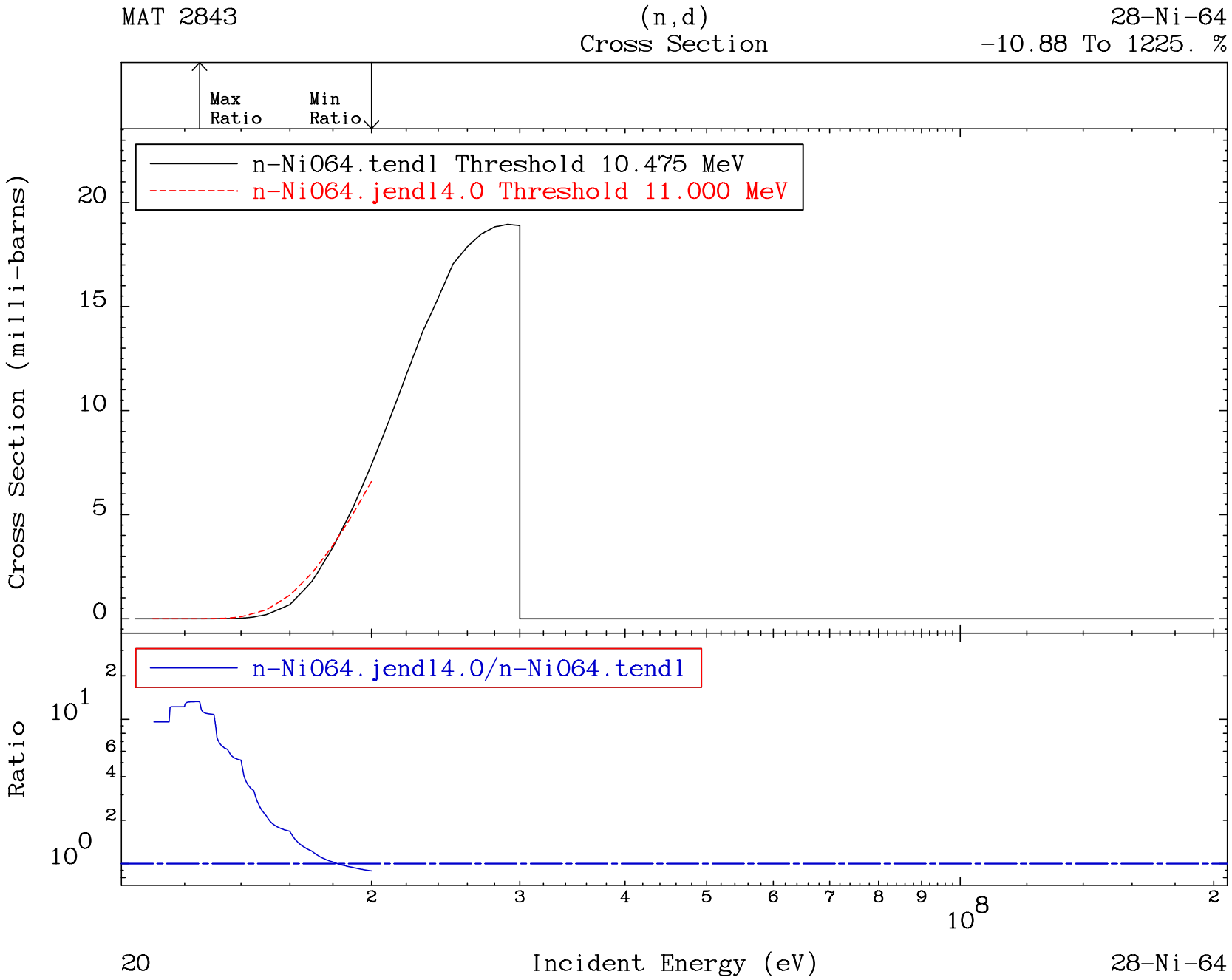

MAT 2843
MT= 58 (n,n') Level
Cross Section
28-Ni-64
-97.36 To 60.66 %
Max
Ratio
n-Ni064.tendl Threshold 3.2161 MeV
n-Ni064.jendl4.0 Threshold 3.3246 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^{0}
10^{-1}
4
4
4
4 5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
15
Incident Energy (eV)
28-Ni-64

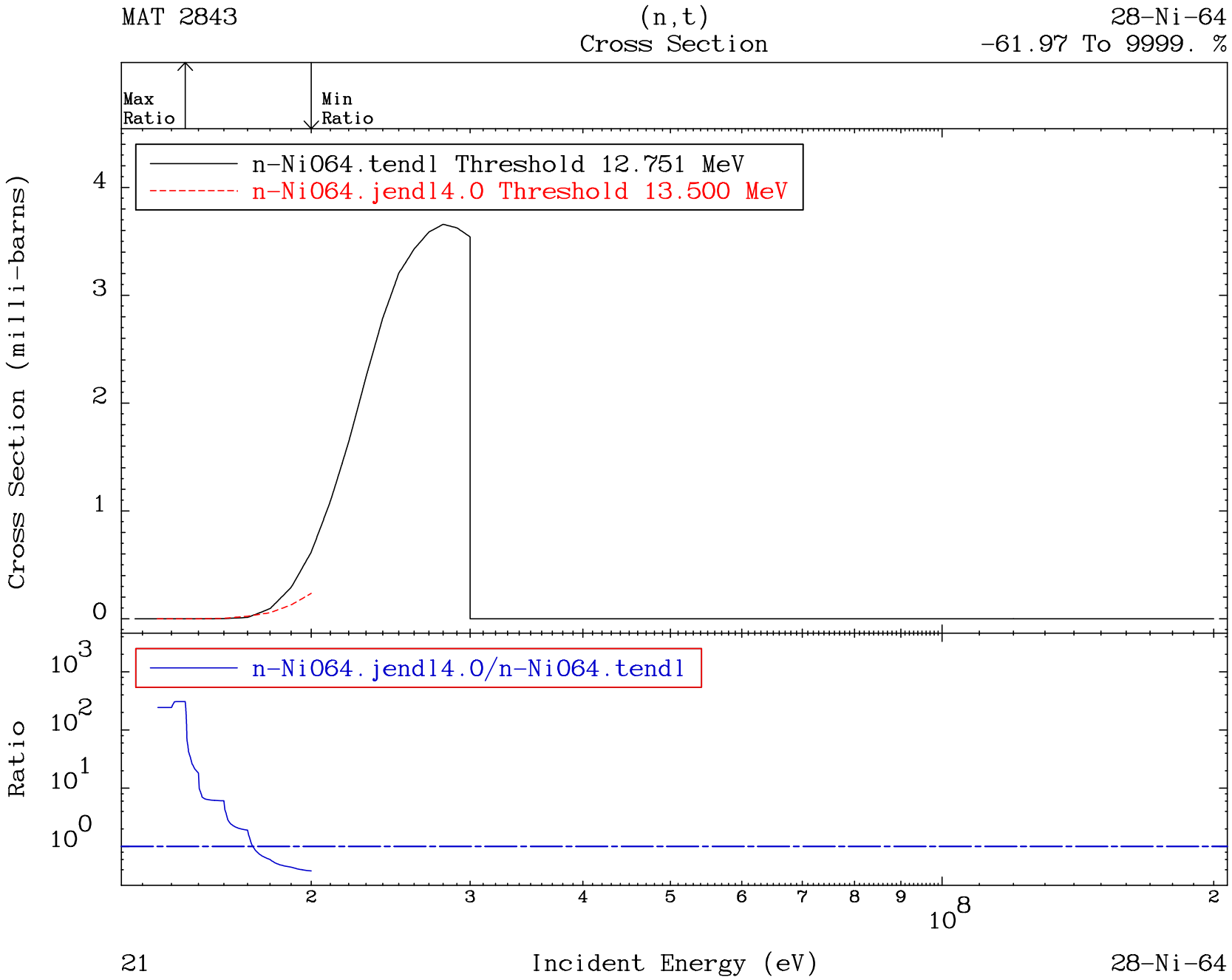

MAT 2843
MT= 59 (n,n') Level
Cross Section
28-Ni-64
-99.77 To 6886. %
Min Ratio
Max Ratio
n-Ni064.tendl Threshold 3.3277 MeV
n-Ni064.jendl4.0 Threshold 3.4465 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^2
10^0
10^-2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
28-Ni-64

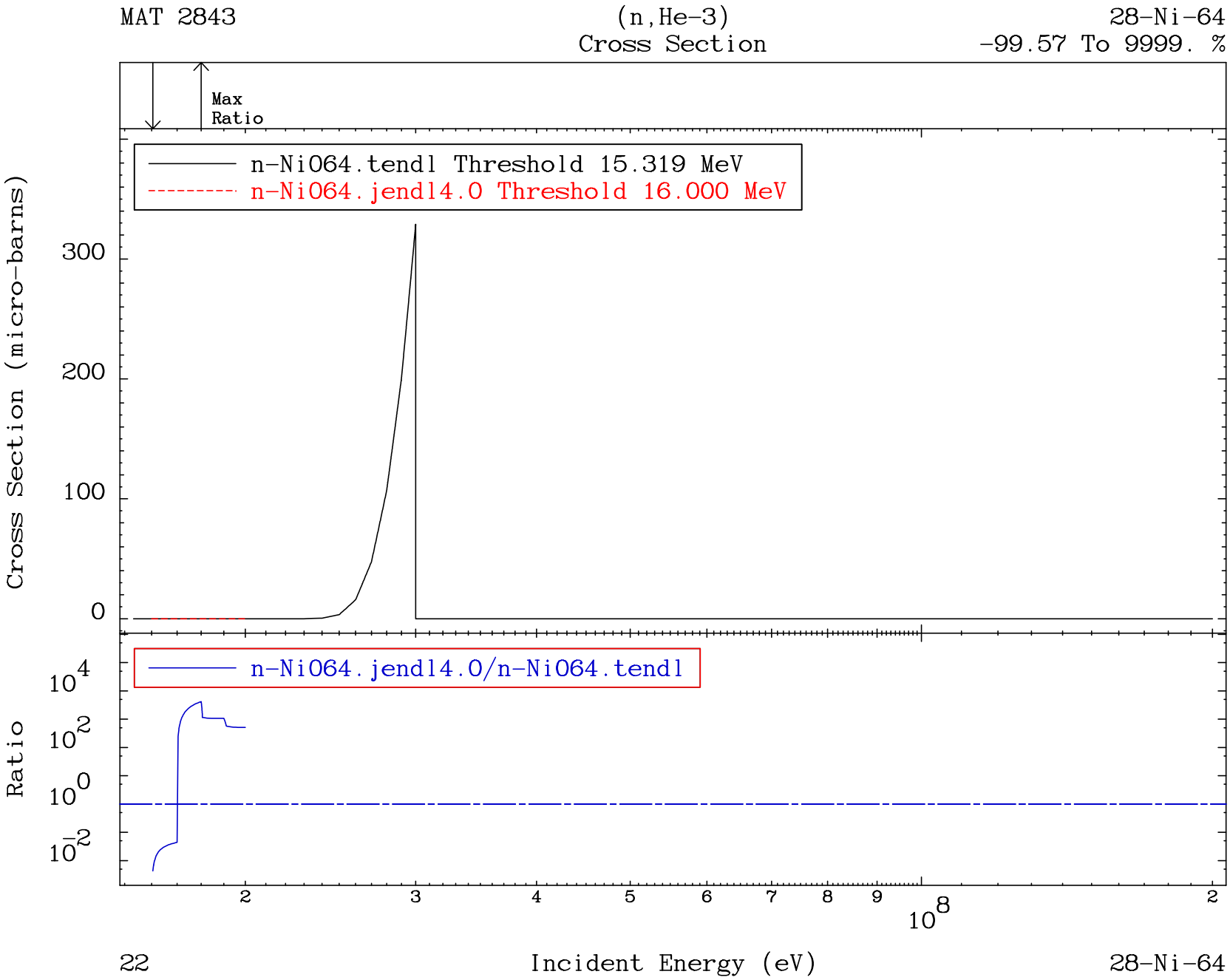

MAT 2843
(n,n') Continuum
Cross Section
28-Ni-64
-6.789 To 9002. %
Max
Ratio
Min
Ratio
n-Ni064.tendl Threshold 4.4379 MeV
n-Ni064.jendl4.0 Threshold 3.5136 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^2
10^1
10^0
4
4
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
28-Ni-64

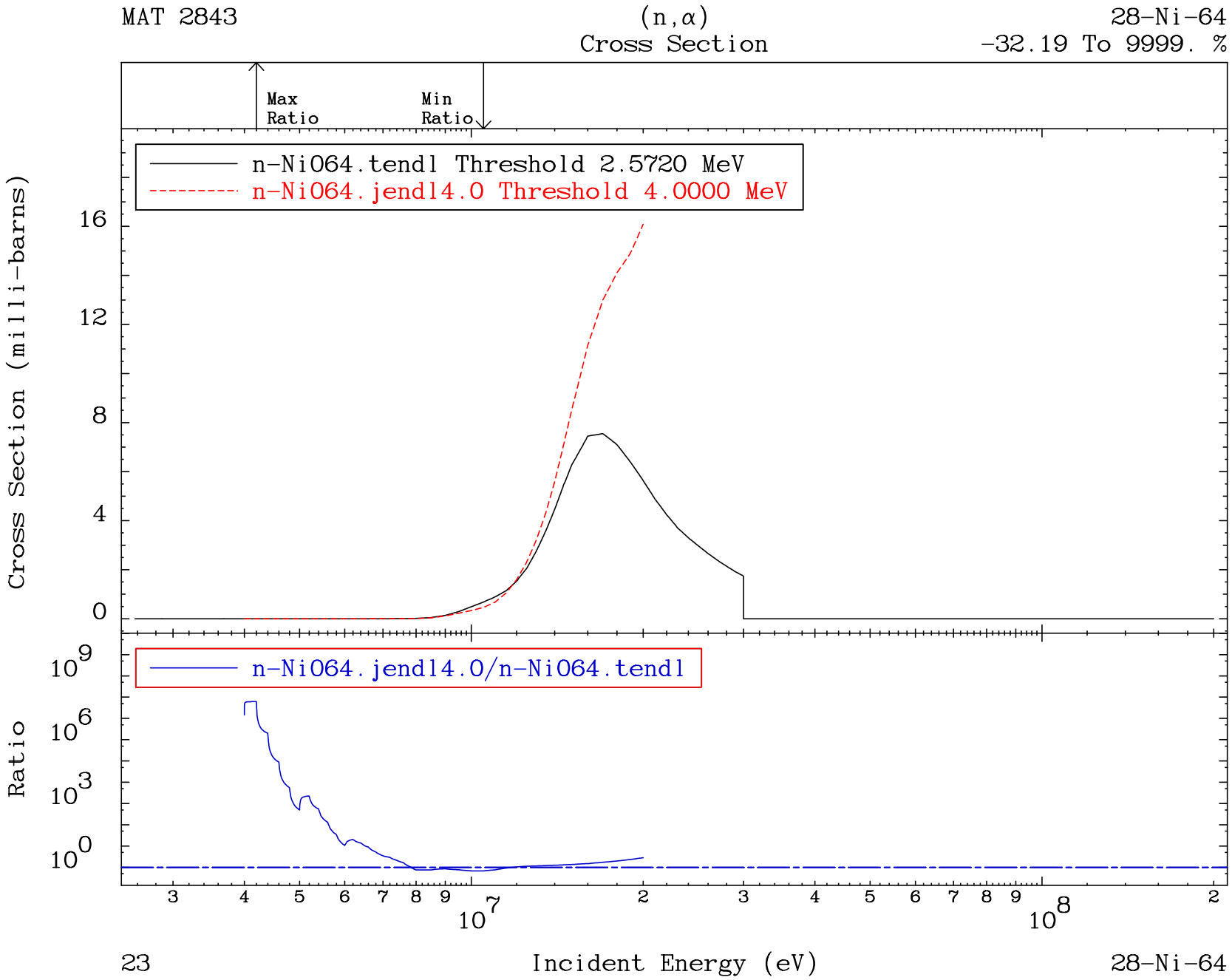

MAT 2843
(n,γ)
Cross Section
28-Ni-64
-99.90 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
18
28-Ni-64

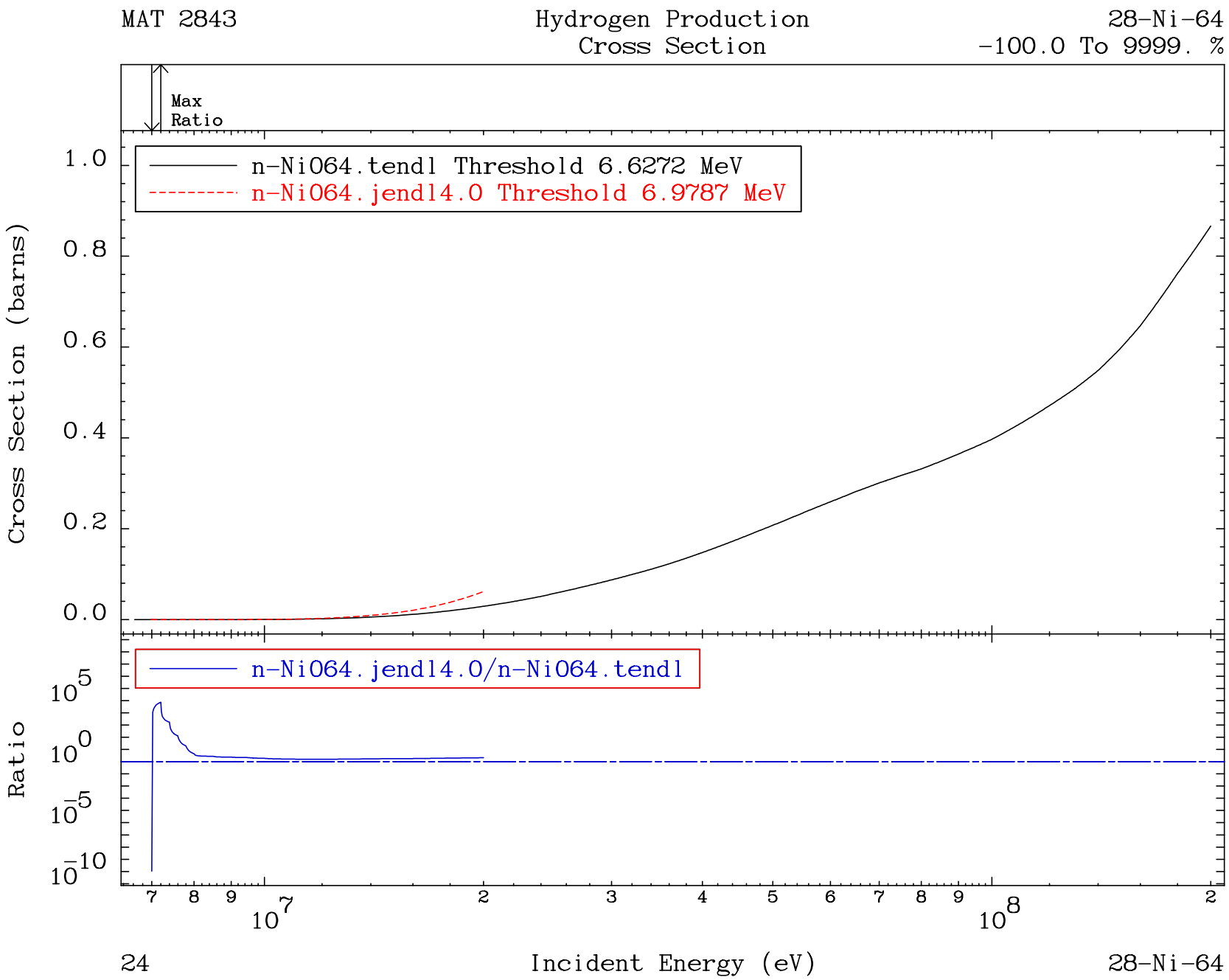

MAT 2843
(n,p)
Cross Section
28-Ni-64
55.73 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 6.6272 MeV
n-Ni064.jendl4.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
28-Ni-64

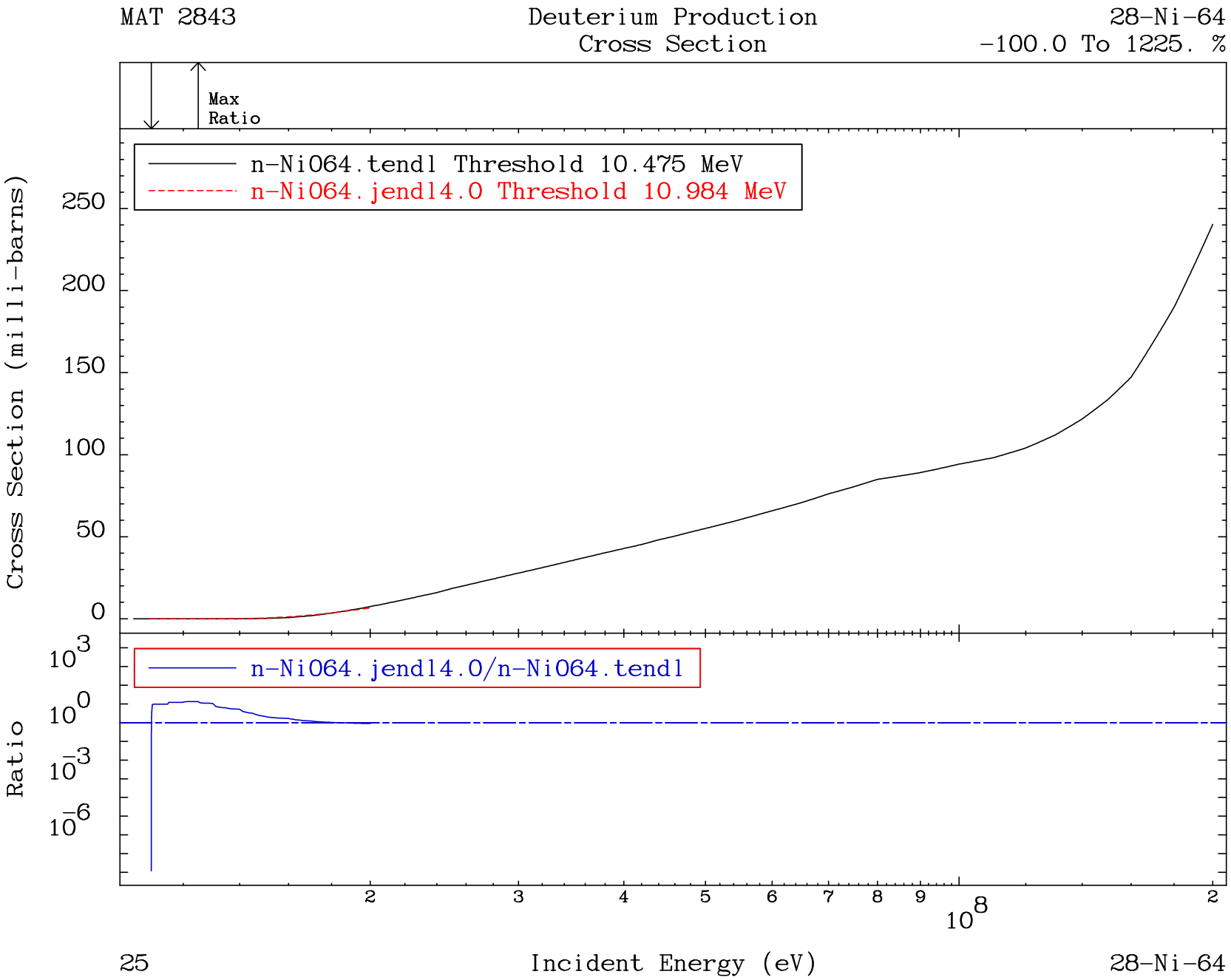

MAT 2843
(n,d)
Cross Section
28-Ni-64
-10.88 To 1225. %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 10.475 MeV
n-Ni064.jendl4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
28-Ni-64

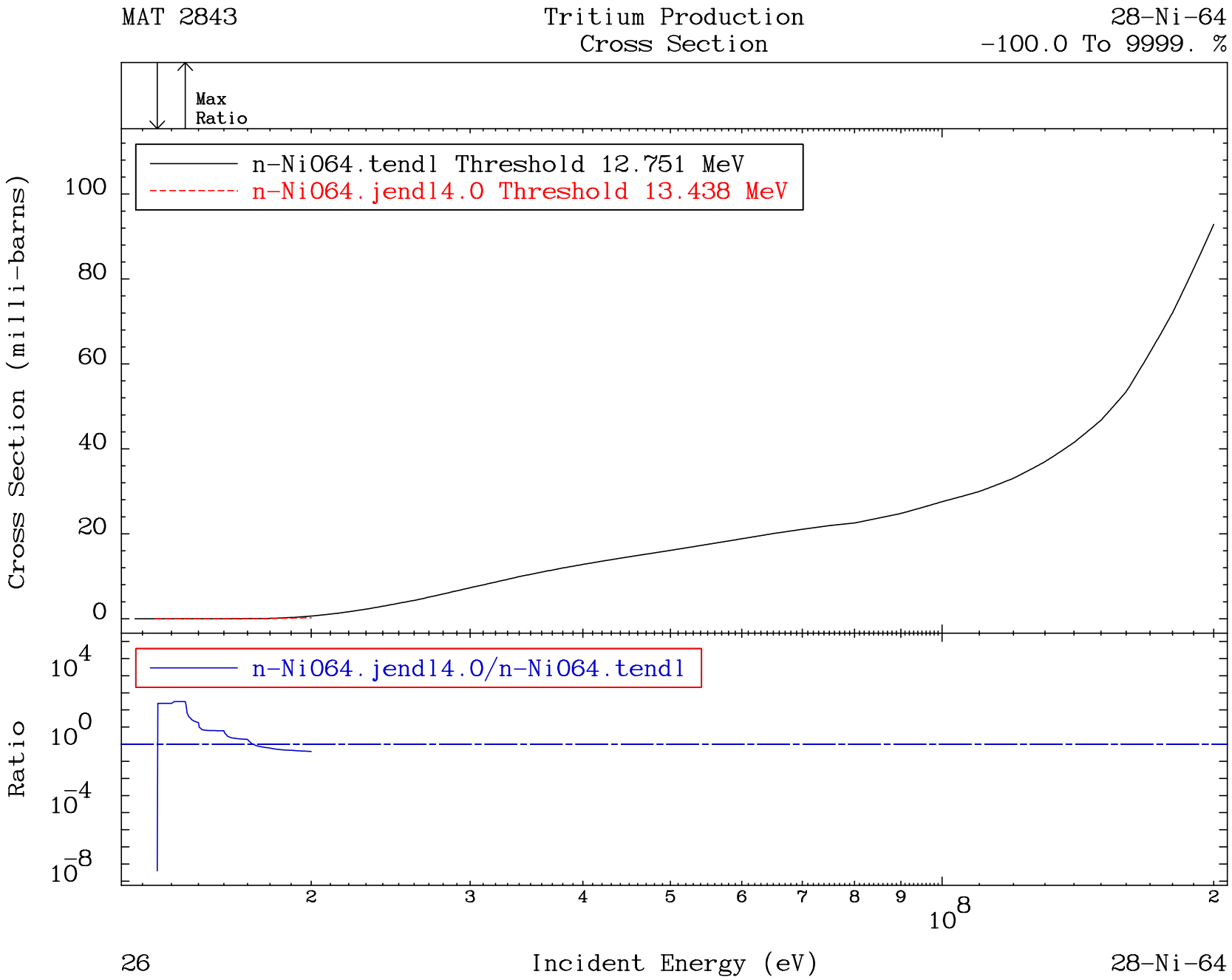

MAT 2843
(n,t)
Cross Section
28-Ni-64
-61.97 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 12.751 MeV
n-Ni064.jendl4.0 Threshold 13.500 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
21
Incident Energy (eV)
28-Ni-64

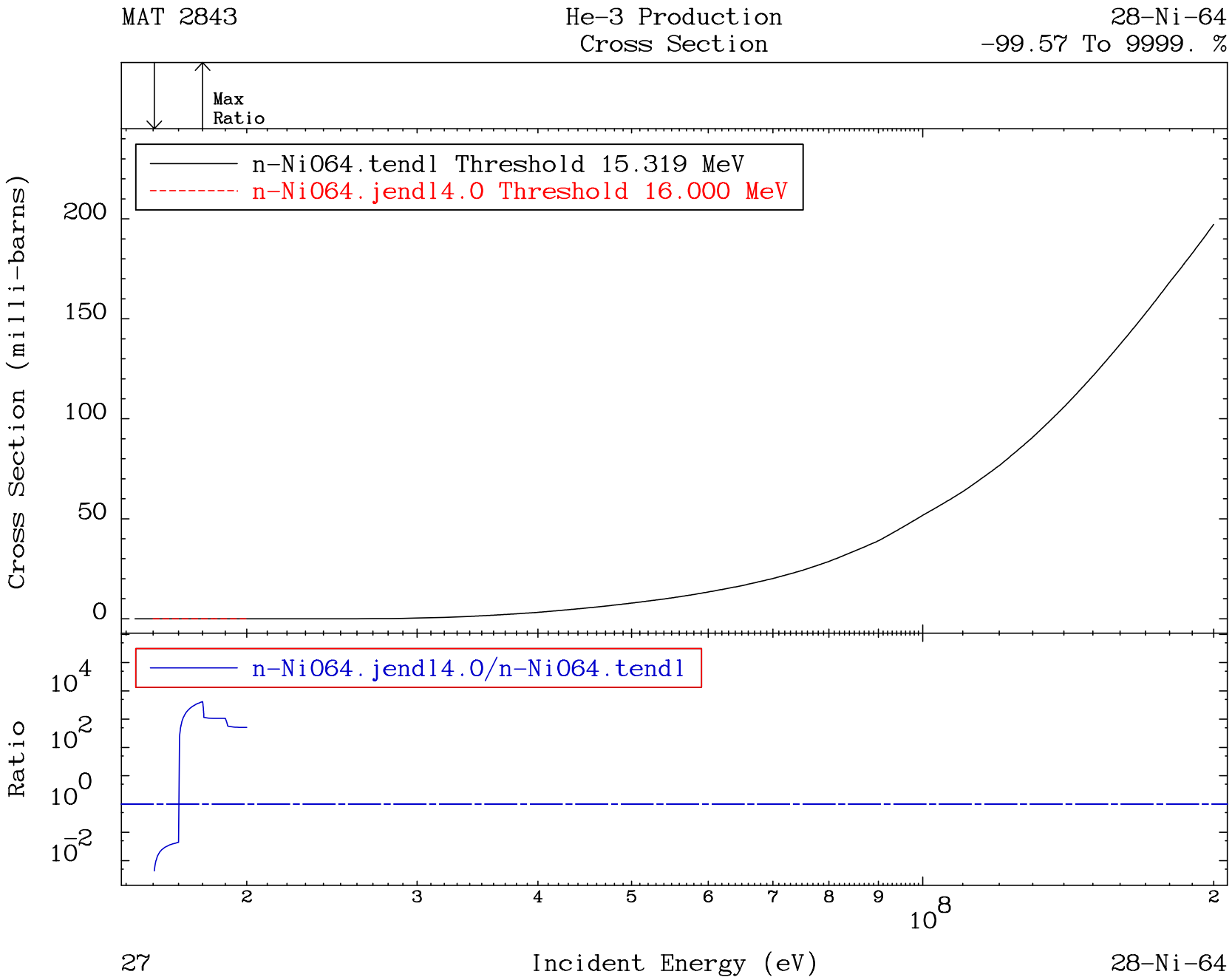

MAT 2843
(n,He-3)
Cross Section
28-Ni-64
-99.57 To 9999. %
Max
Ratio
n-Ni064.tendl Threshold 15.319 MeV
n-Ni064.jendl4.0 Threshold 16.000 MeV
Cross Section (micro-barns)
300
200
100
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
28-Ni-64

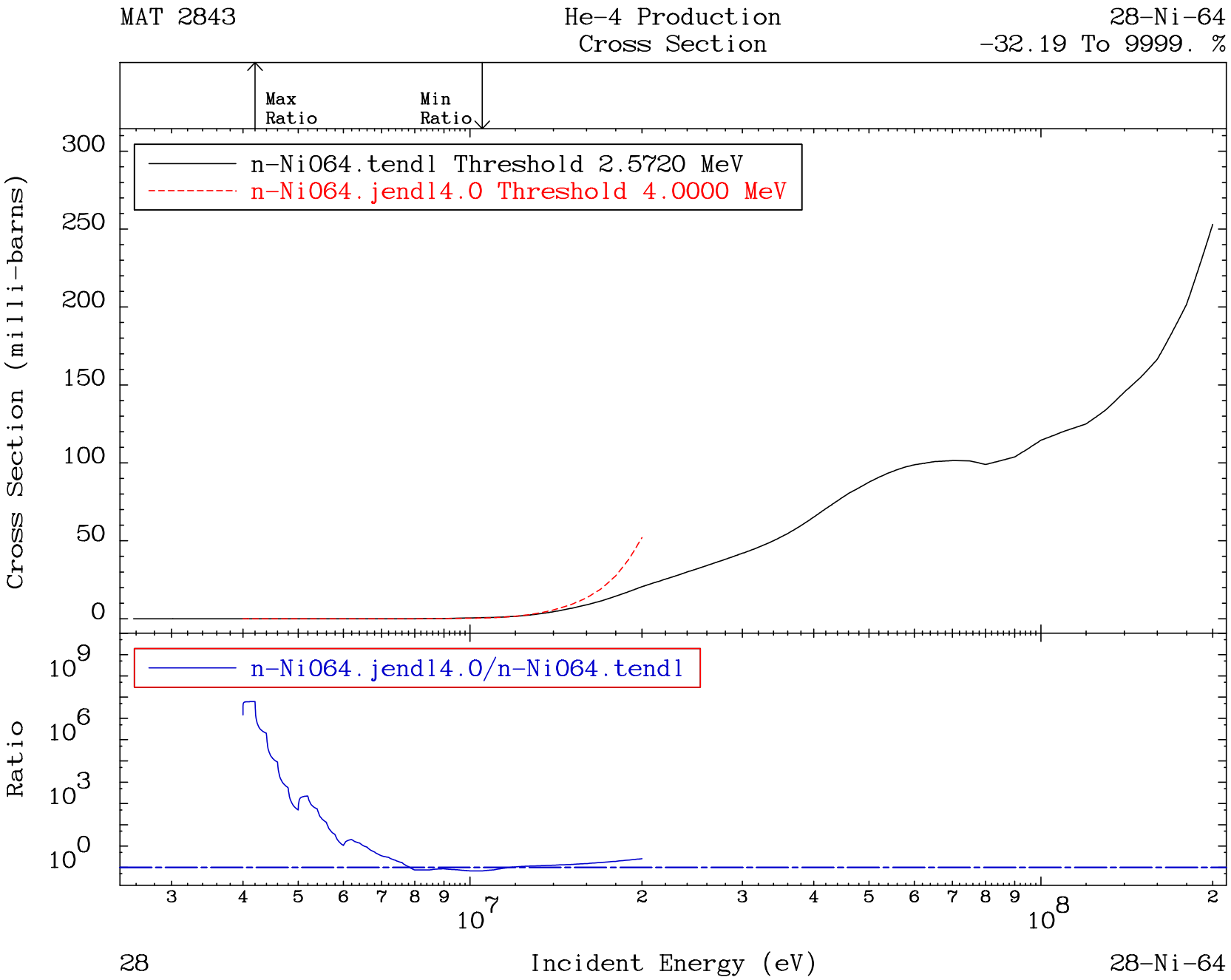

MAT 2843
(n,α)
Cross Section
28-Ni-64
-32.19 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 2.5720 MeV
n-Ni064.jendl4.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
28-Ni-64

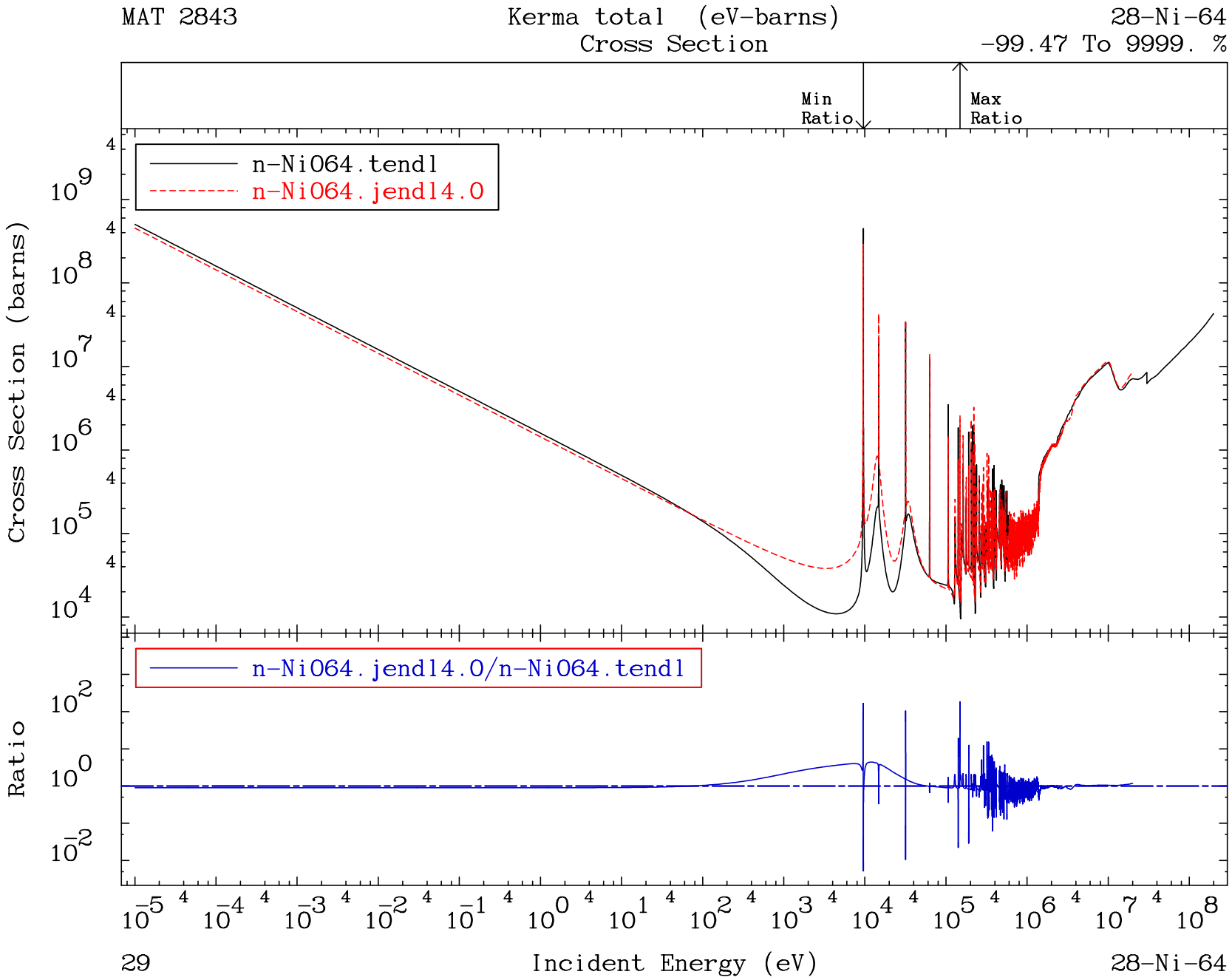

MAT 2843
Hydrogen Production
Cross Section
28-Ni-64
-100.0 To 9999. %
Max
Ratio
n-Ni064.tendl Threshold 6.6272 MeV
n-Ni064.jendl4.0 Threshold 6.9787 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^5
10^0
10^-5
10^-10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
28-Ni-64

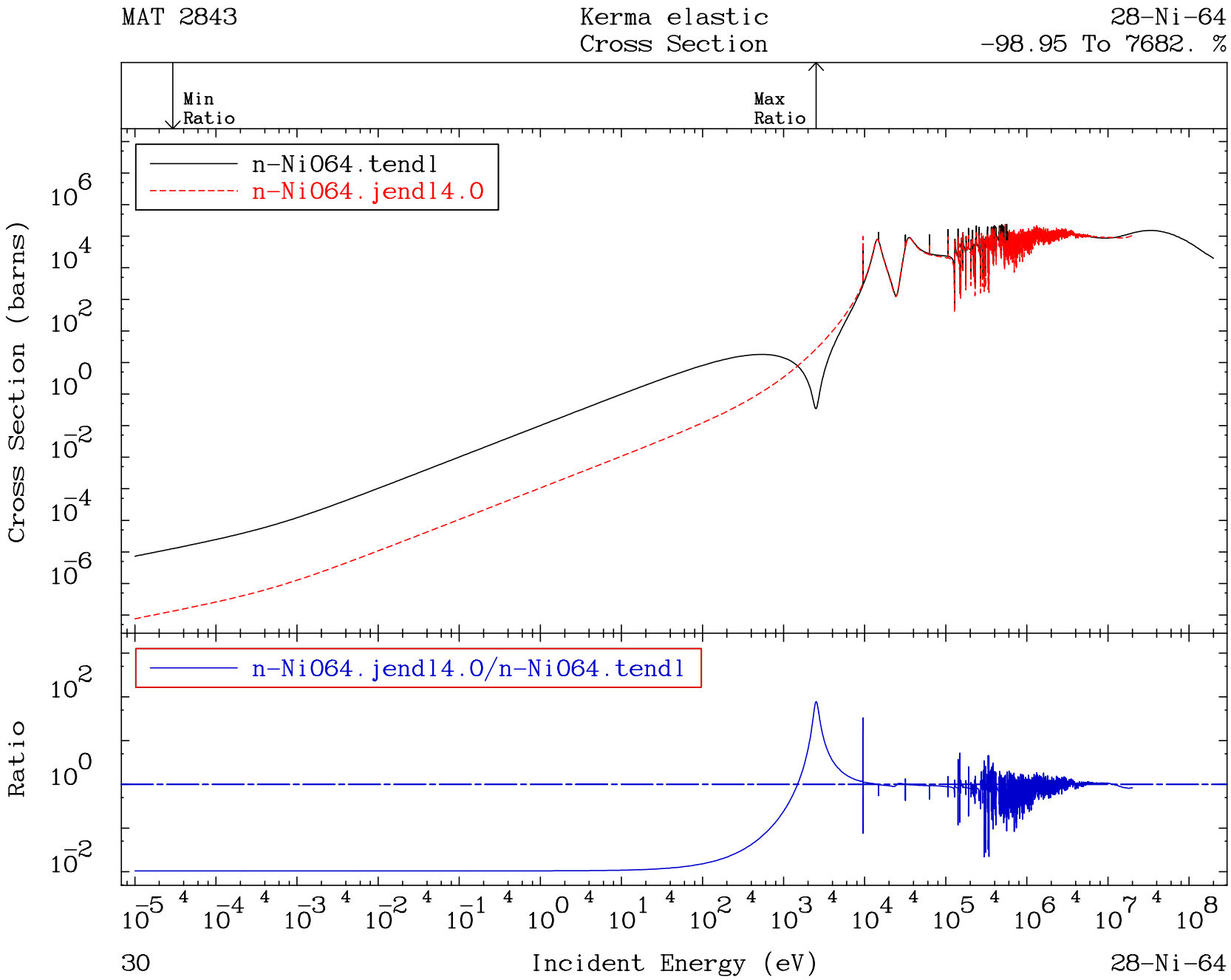

MAT 2843
Deuterium Production
Cross Section
28-Ni-64
-100.0 To 1225. %
Max
Ratio
n-Ni064.tendl Threshold 10.475 MeV
n-Ni064.jendl4.0 Threshold 10.984 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^3
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
28-Ni-64

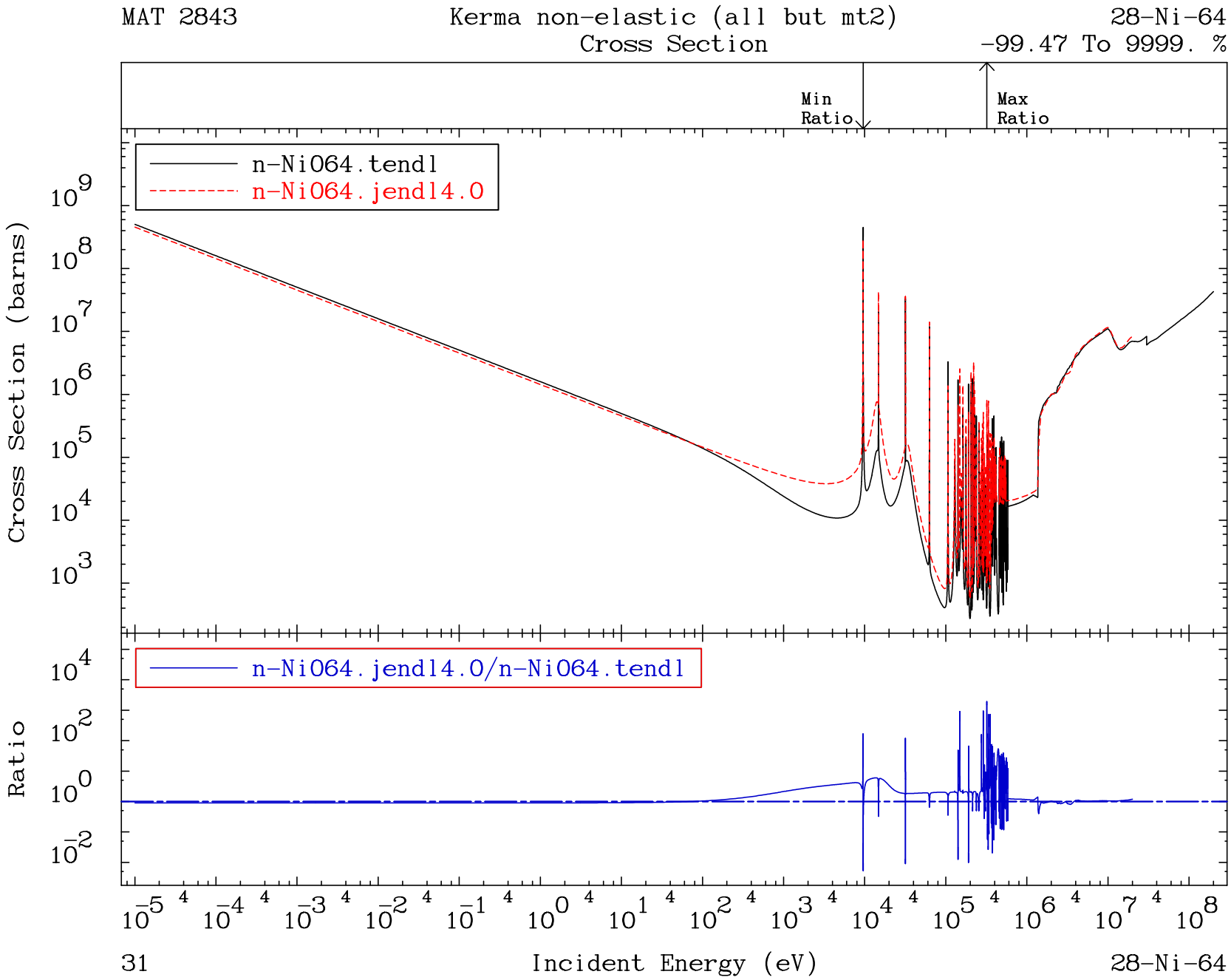

MAT 2843
Tritium Production
Cross Section
28-Ni-64
-100.0 To 9999. %
Max
Ratio
n-Ni064.tendl Threshold 12.751 MeV
n-Ni064.jendl4.0 Threshold 13.438 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^0
10^-4
10^-8
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
28-Ni-64

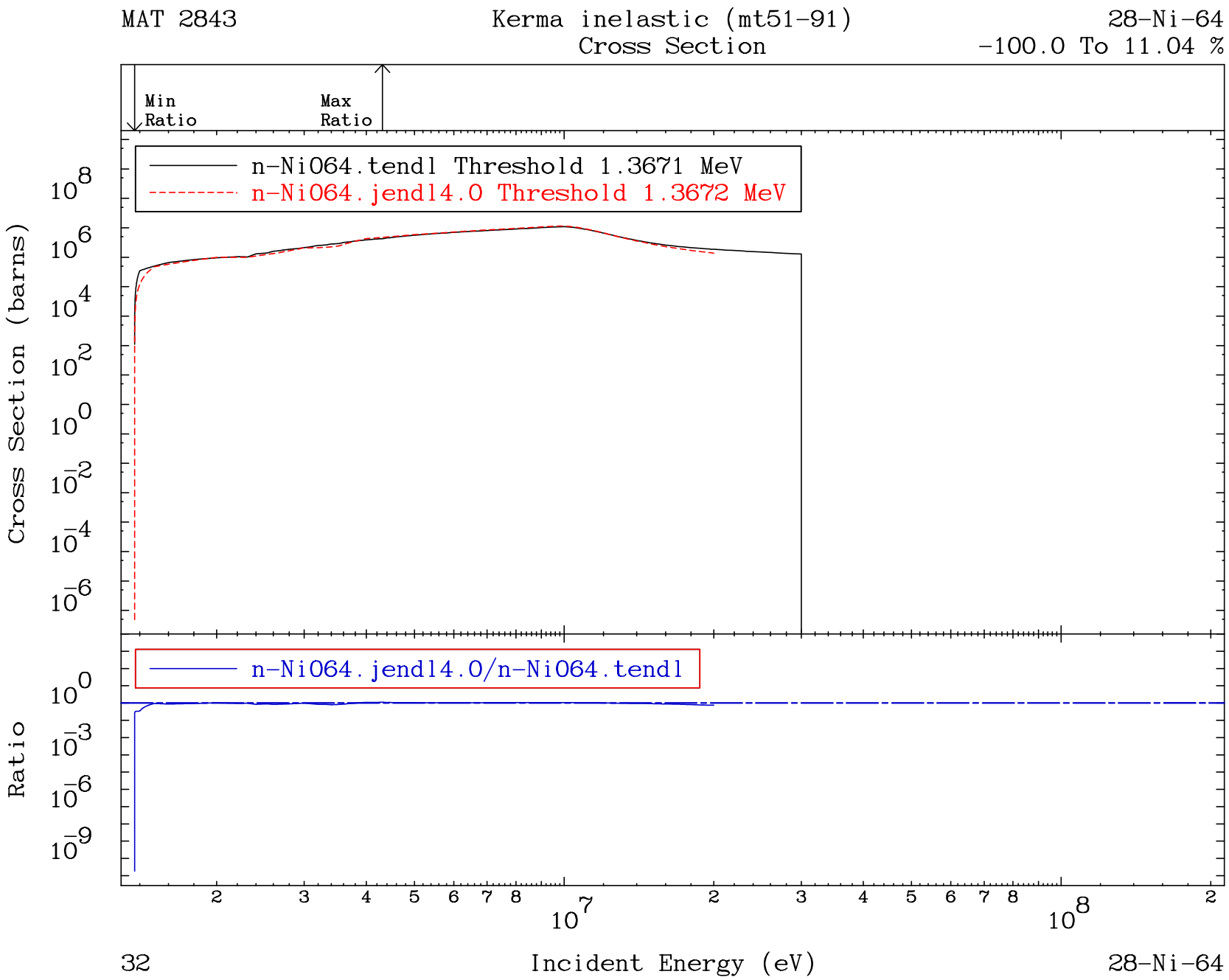

MAT 2843
He-3 Production
Cross Section
28-Ni-64
-99.57 To 9999. %
Max
Ratio
n-Ni064.tendl Threshold 15.319 MeV
n-Ni064.jendl4.0 Threshold 16.000 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
28-Ni-64

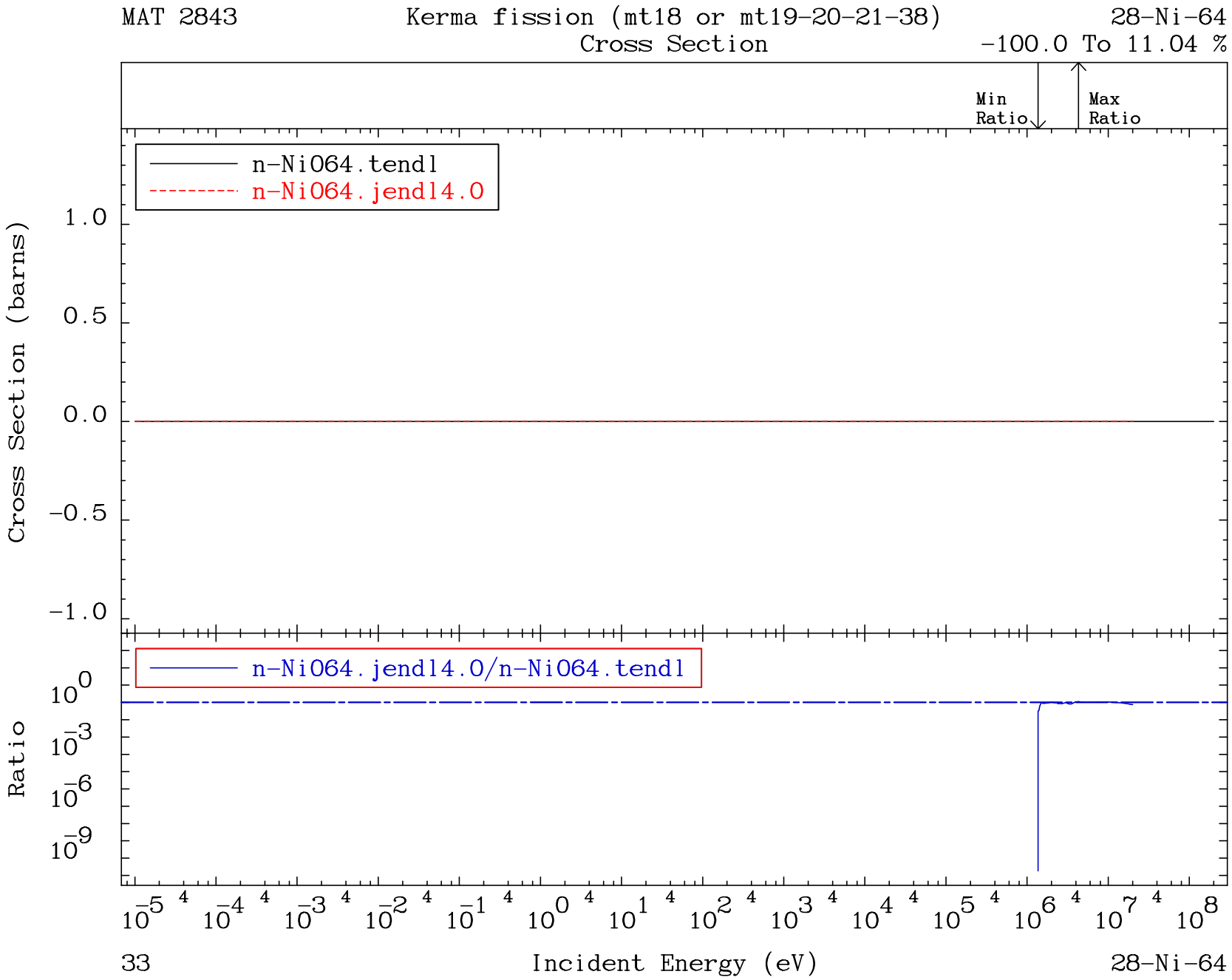

MAT 2843
He-4 Production
Cross Section
28-Ni-64
-32.19 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 2.5720 MeV
n-Ni064.jendl4.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^9
10^6
10^3
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
28-Ni-64

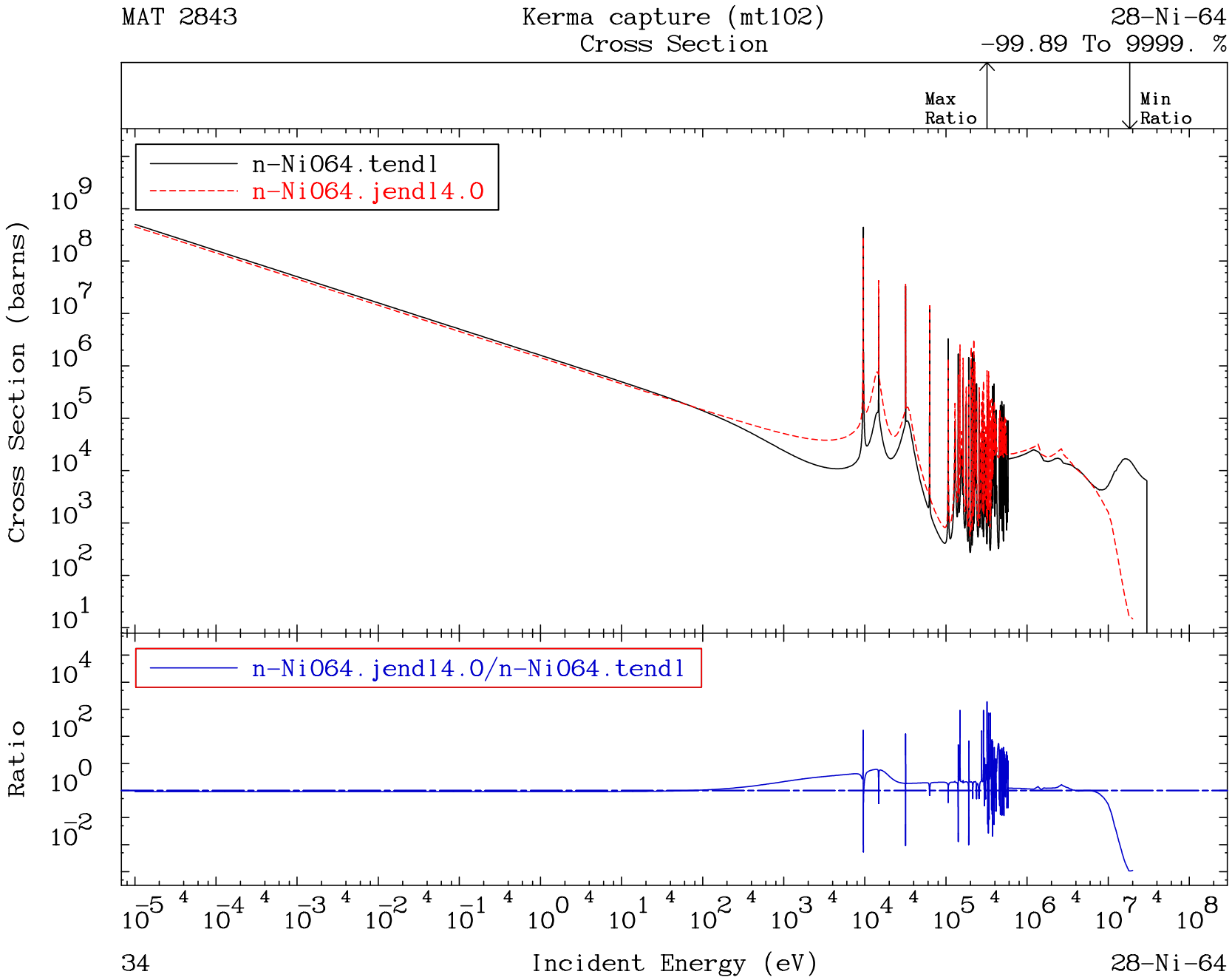

MAT 2843
Kerma total (eV-barns)
Cross Section
28-Ni-64
-99.47 To 9999. %
Min Ratio
Max Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
29
28-Ni-64

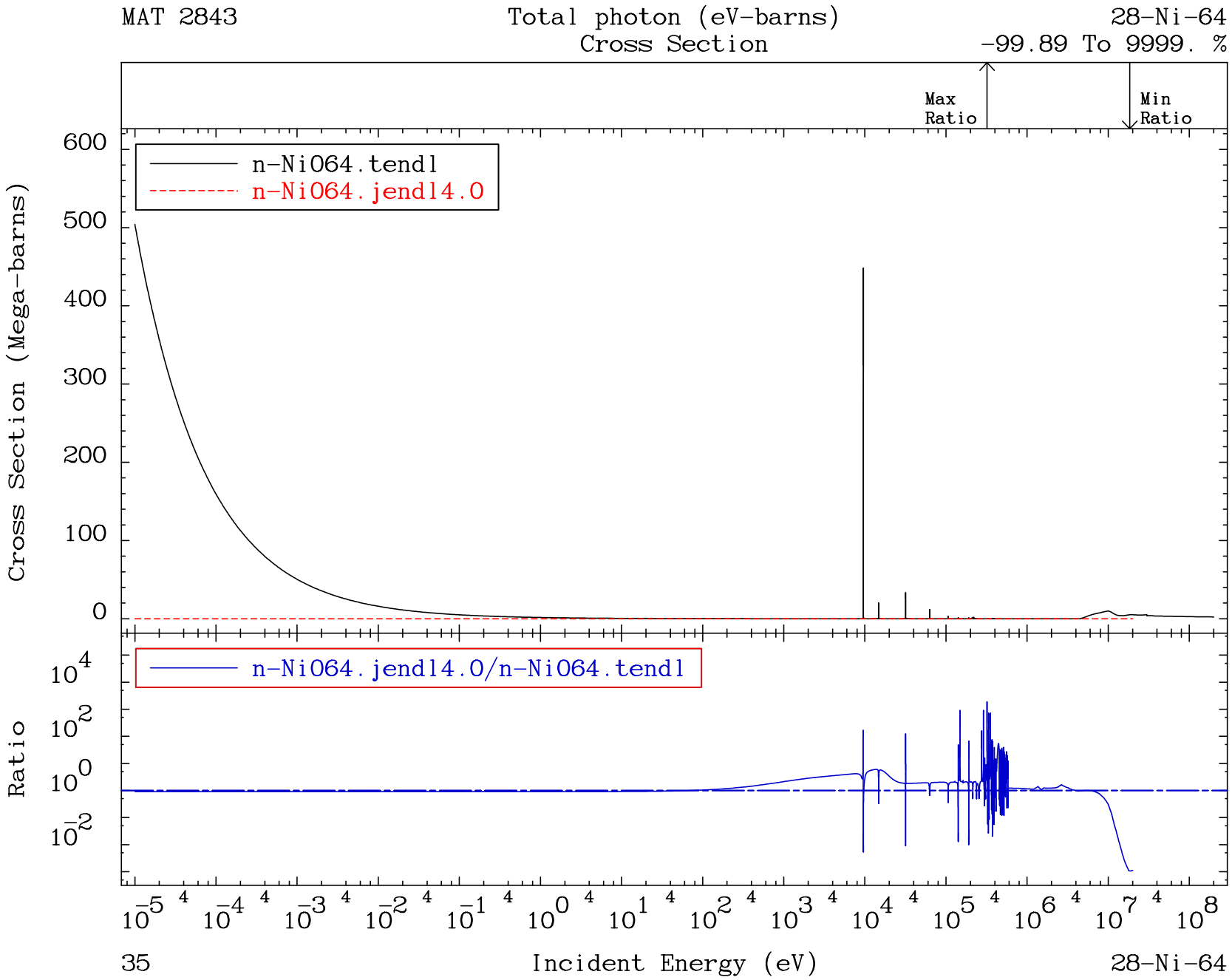

MAT 2843
Kerma elastic
Cross Section
28-Ni-64
-98.95 To 7682. %
Min Ratio
Max Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
30
28-Ni-64

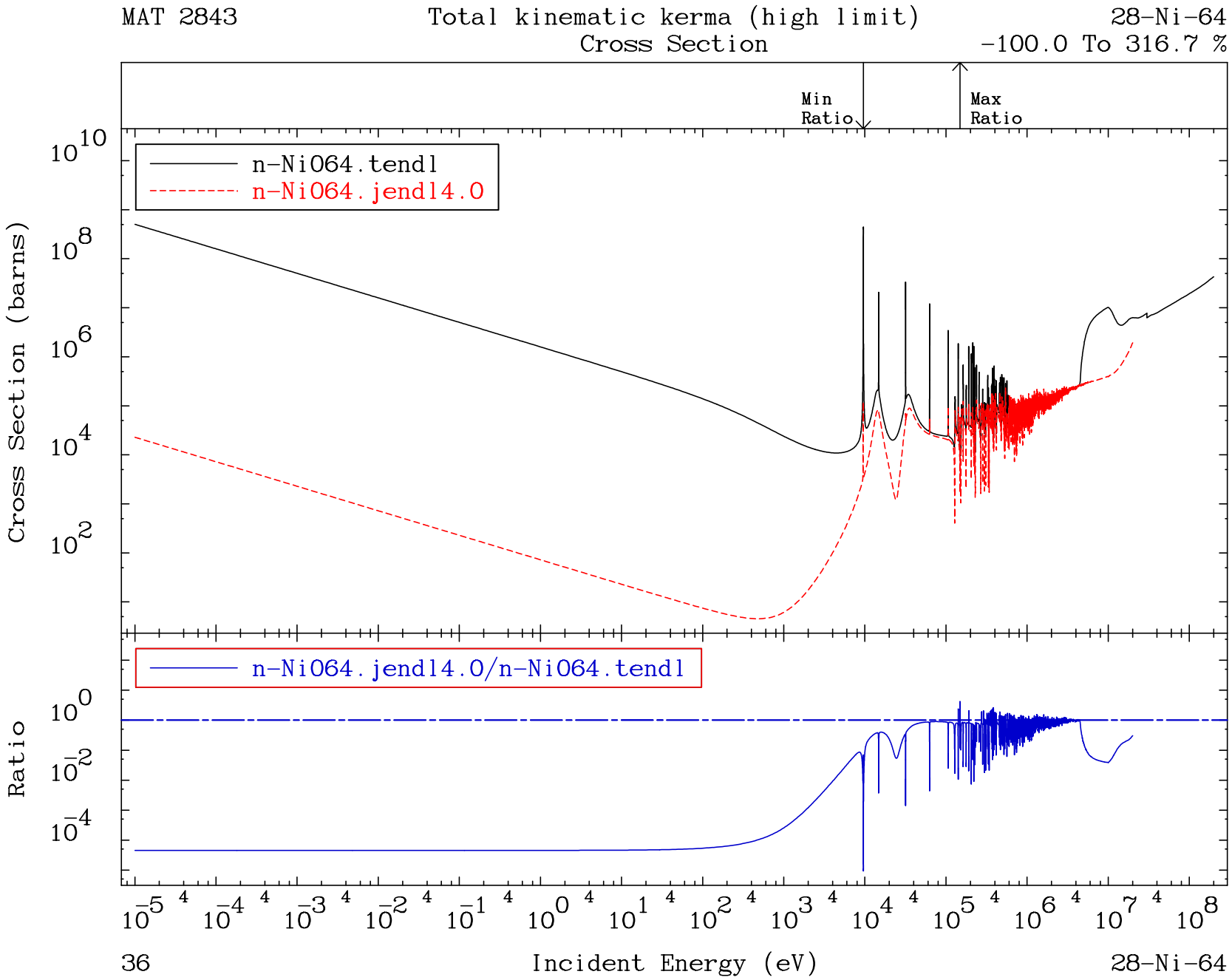

MAT 2843
Kerma non-elastic (all but mt2)
Cross Section
28-Ni-64
-99.47 To 9999. %
Min Ratio
Max Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
31
28-Ni-64

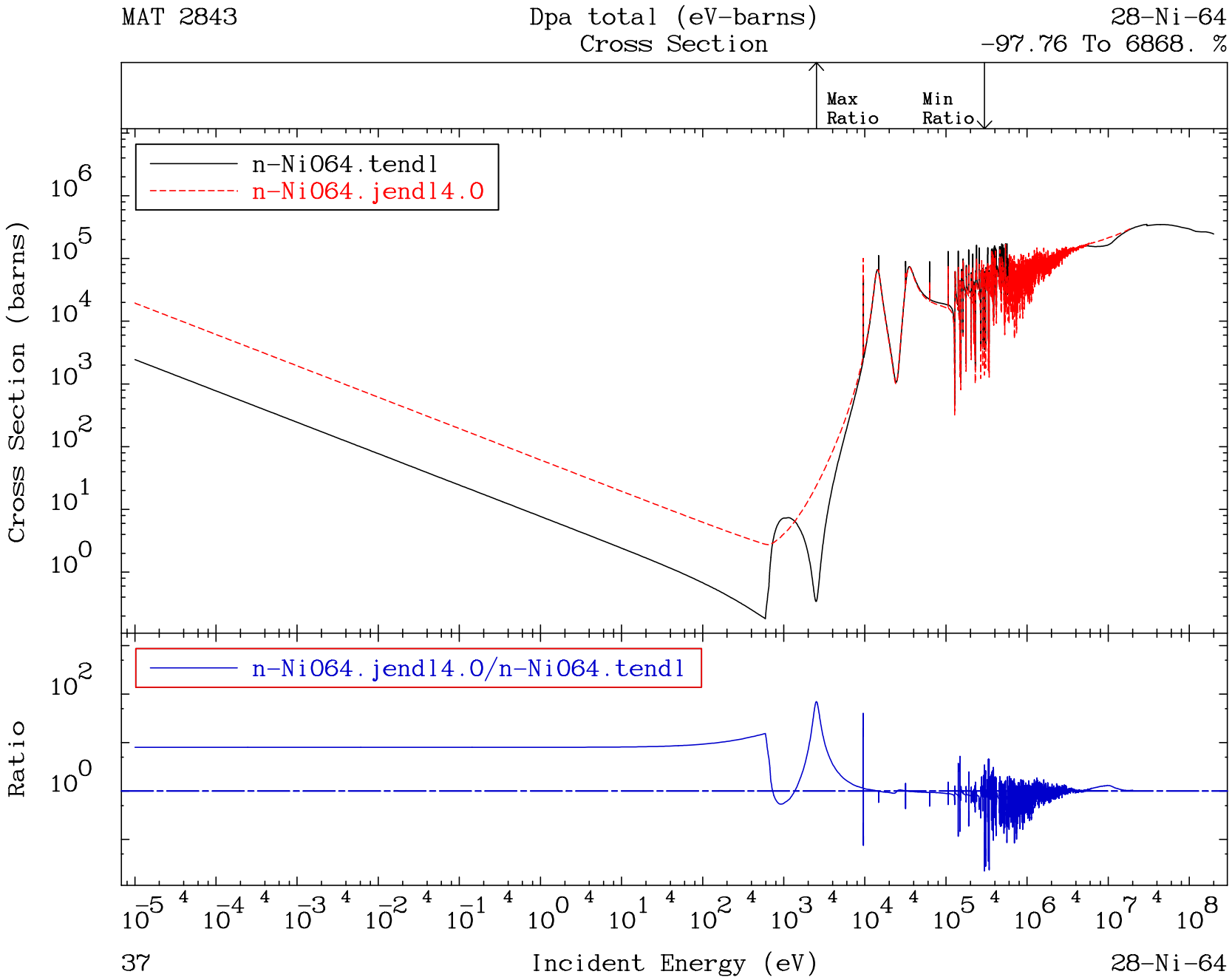

MAT 2843
Kerma inelastic (mt51-91)
Cross Section
28-Ni-64
-100.0 To 11.04 %
Min Ratio
Max Ratio
n-Ni064.tendl Threshold 1.3671 MeV
n-Ni064.jendl4.0 Threshold 1.3672 MeV
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
32
28-Ni-64

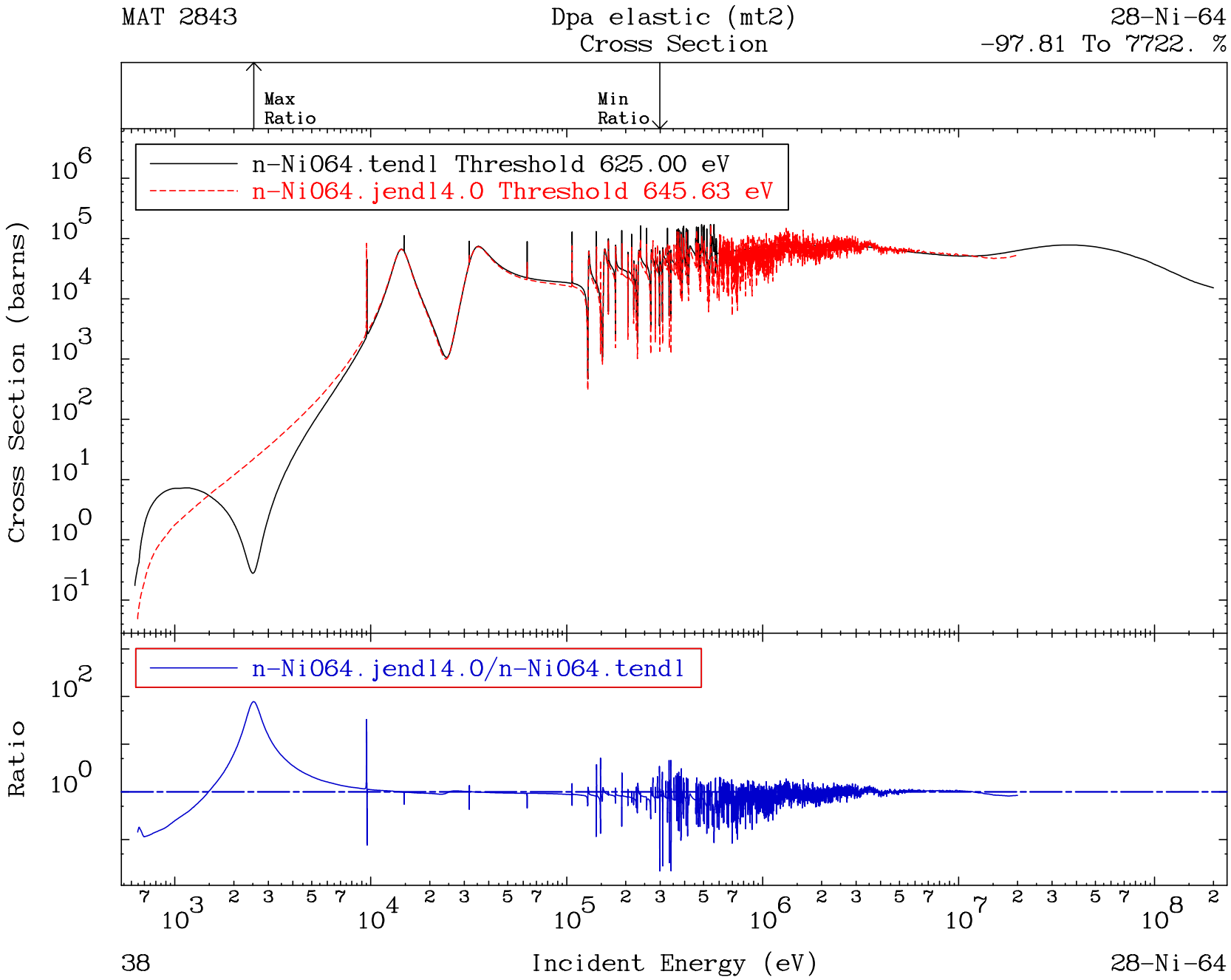

MAT 2843
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
28-Ni-64
-100.0 To 11.04 %
Min Ratio
Max Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^0
10^-3
10^-6
10^-9
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
28-Ni-64

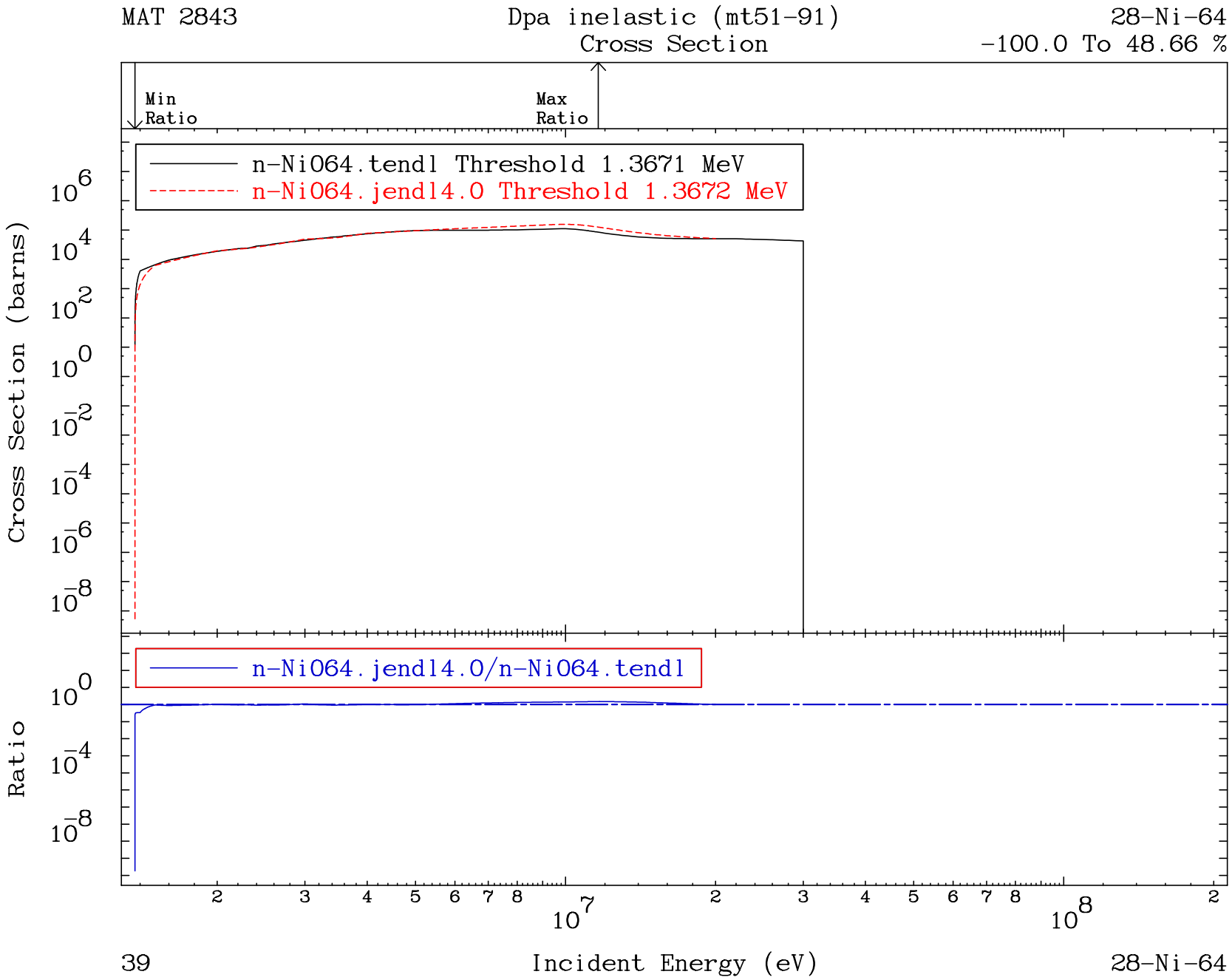

MAT 2843
Kerma capture (mt102)
Cross Section
28-Ni-64
-99.89 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
34
Incident Energy (eV)
28-Ni-64

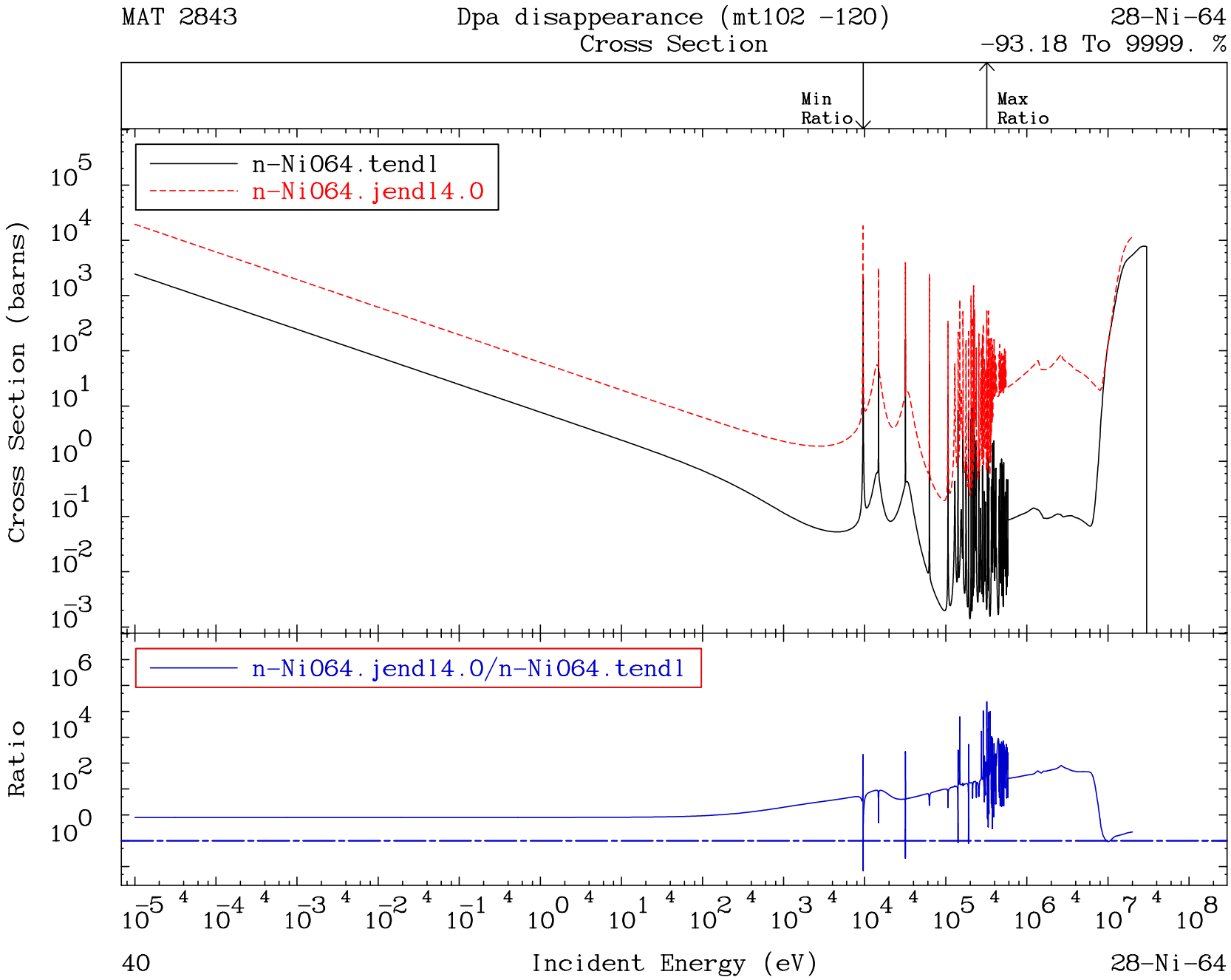

MAT 2843
Total photon (eV-barns)
Cross Section
28-Ni-64
-99.89 To 9999. %
Max Ratio
Min Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (Mega-barns)
600
500
400
300
200
100
0
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
10^4
10^2
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
28-Ni-64


MAT 2843
Total kinematic kerma (high limit)
Cross Section
28-Ni-64
-100.0 To 316.7 %
Min Ratio
Max Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
36
28-Ni-64


MAT 2843
Dpa total (eV-barns)
Cross Section
28-Ni-64
-97.76 To 6868. %
Max Ratio
Min Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
Ratio
n-Ni064.jendl4.0/n-Ni064.tendl
Incident Energy (eV)
37
28-Ni-64


MAT 2843
Dpa elastic (mt2)
Cross Section
28-Ni-64
-97.81 To 7722. %
Max Ratio
Min Ratio
n-Ni064.tendl Threshold 625.00 eV
n-Ni064.jendl4.0 Threshold 645.63 eV
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
38
Incident Energy (eV)
28-Ni-64


MAT 2843
Dpa inelastic (mt51-91)
Cross Section
28-Ni-64
-100.0 To 48.66 %
Min Ratio
Max Ratio
n-Ni064.tendl Threshold 1.3671 MeV
n-Ni064.jendl4.0 Threshold 1.3672 MeV
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
39
28-Ni-64


MAT 2843
Dpa disappearance (mt102 -120)
Cross Section
28-Ni-64
-93.18 To 9999. %
Min Ratio
Max Ratio
n-Ni064.tendl
n-Ni064.jendl4.0
Cross Section (barns)
n-Ni064.jendl4.0/n-Ni064.tendl
Ratio
Incident Energy (eV)
40
28-Ni-64