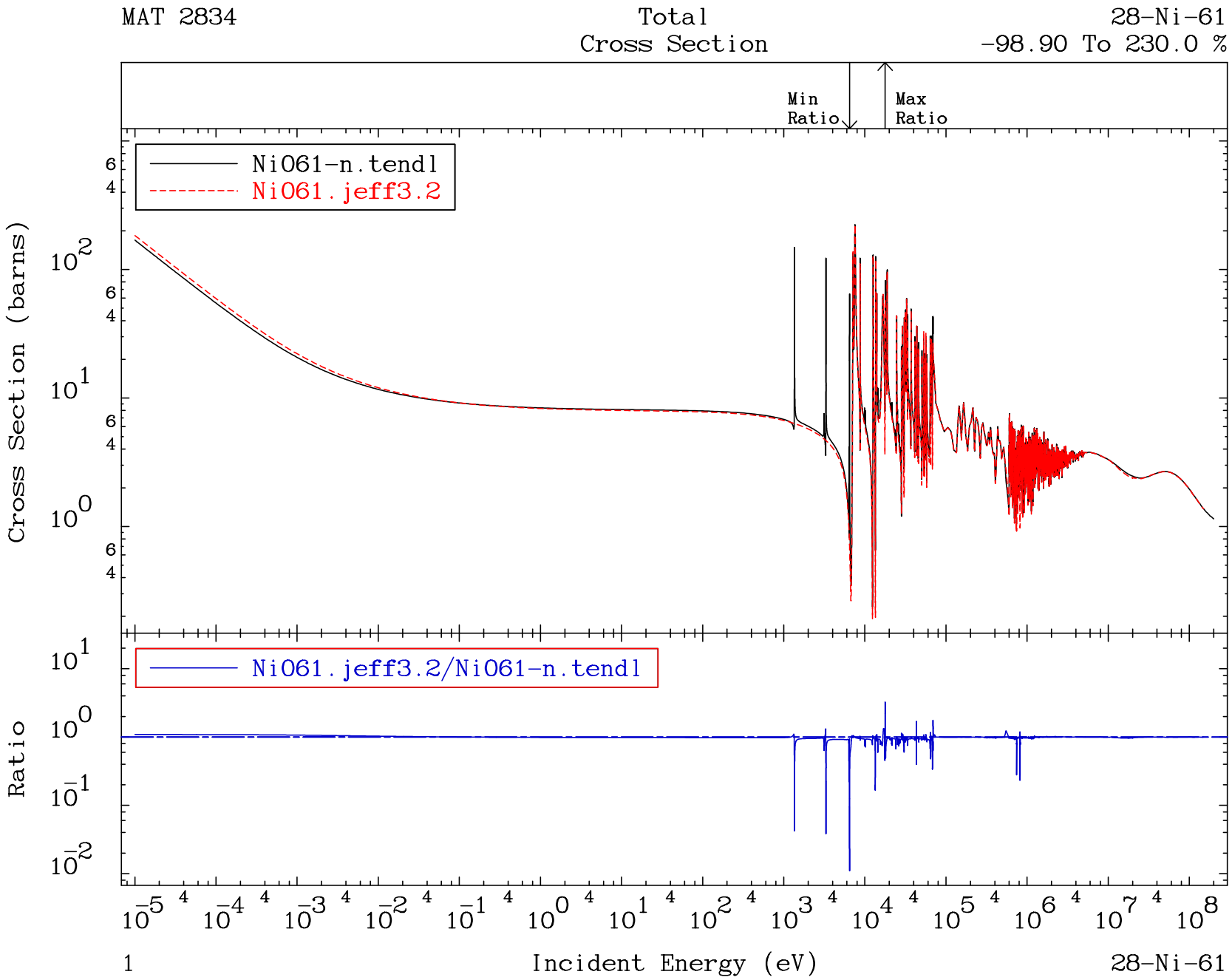
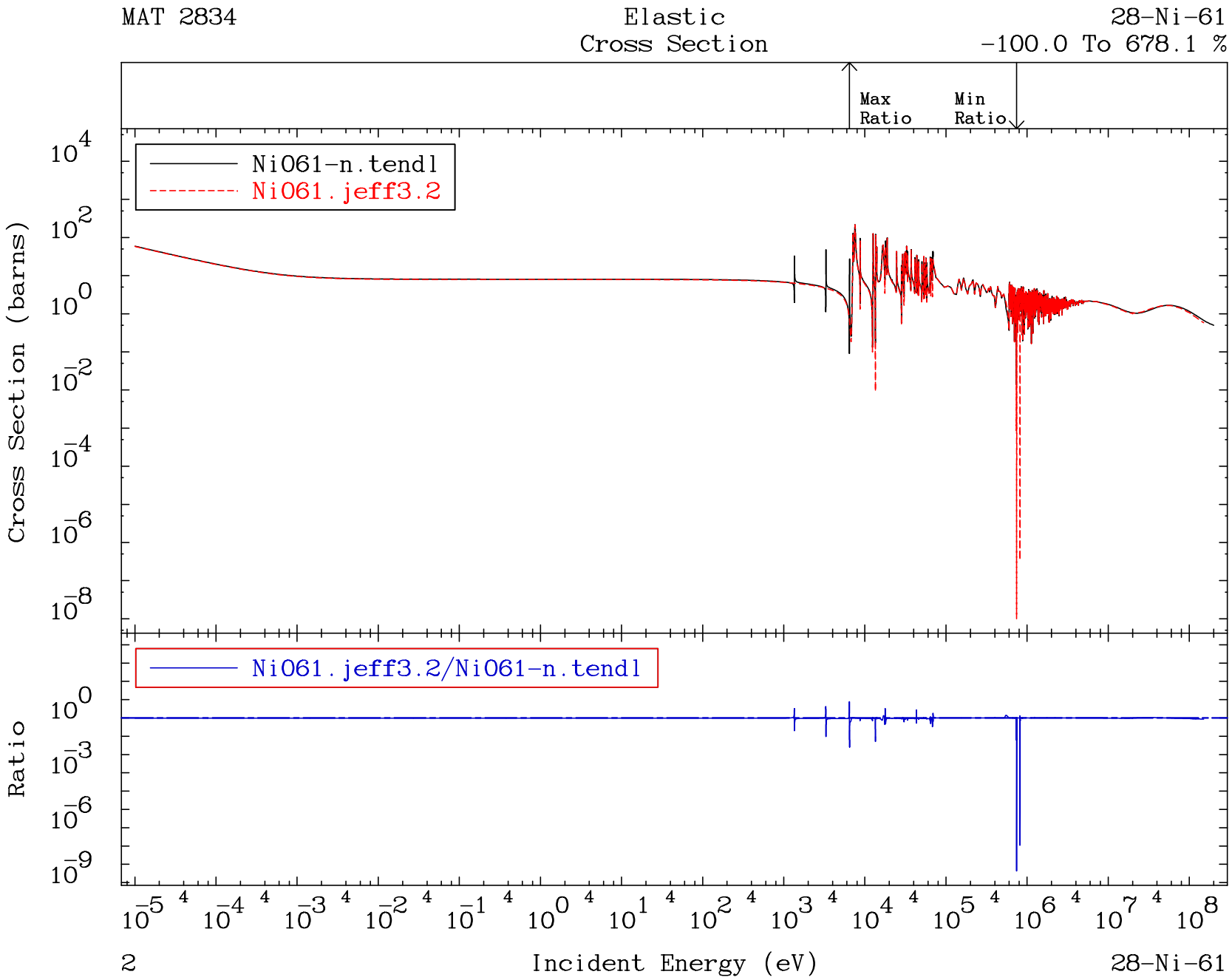
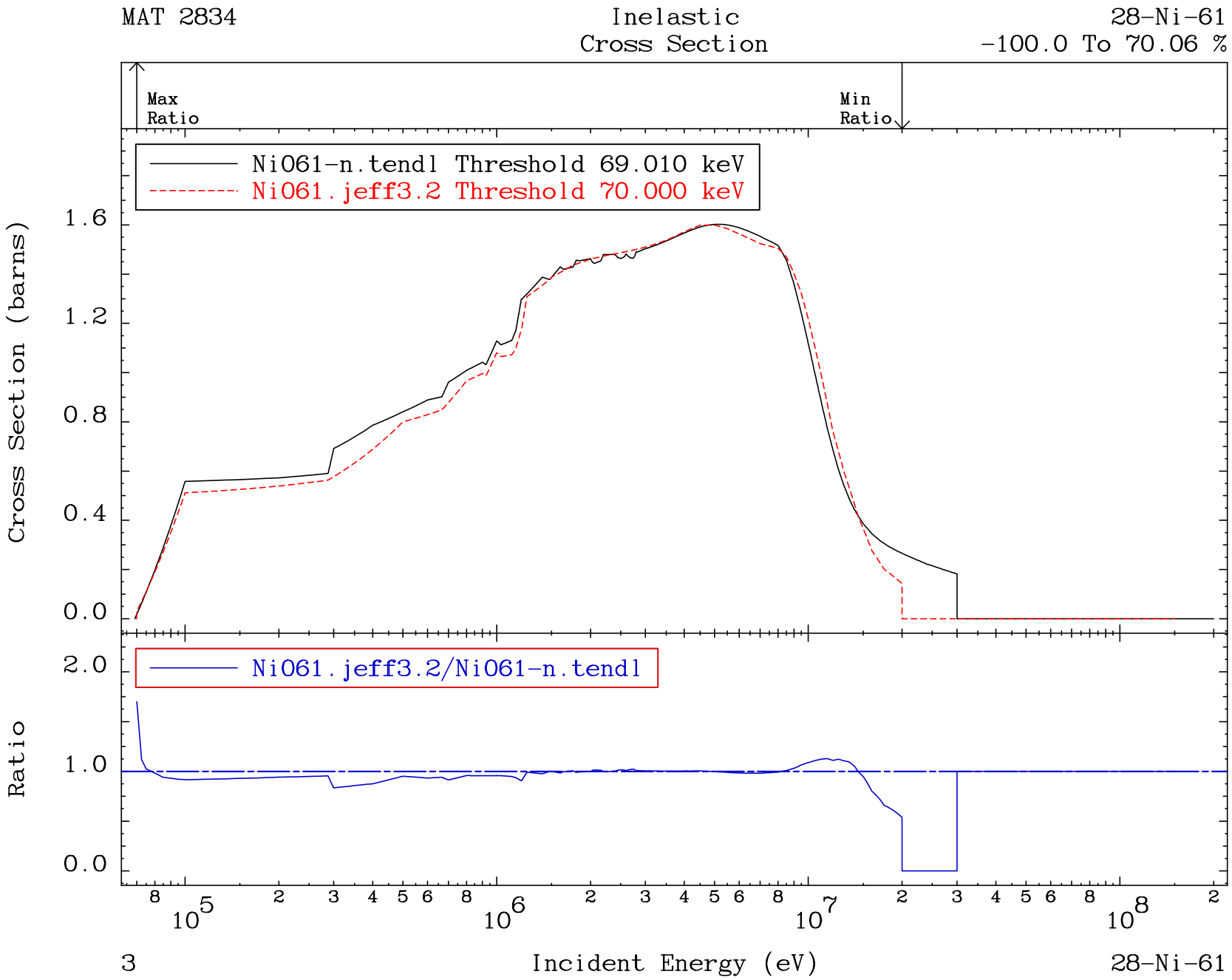
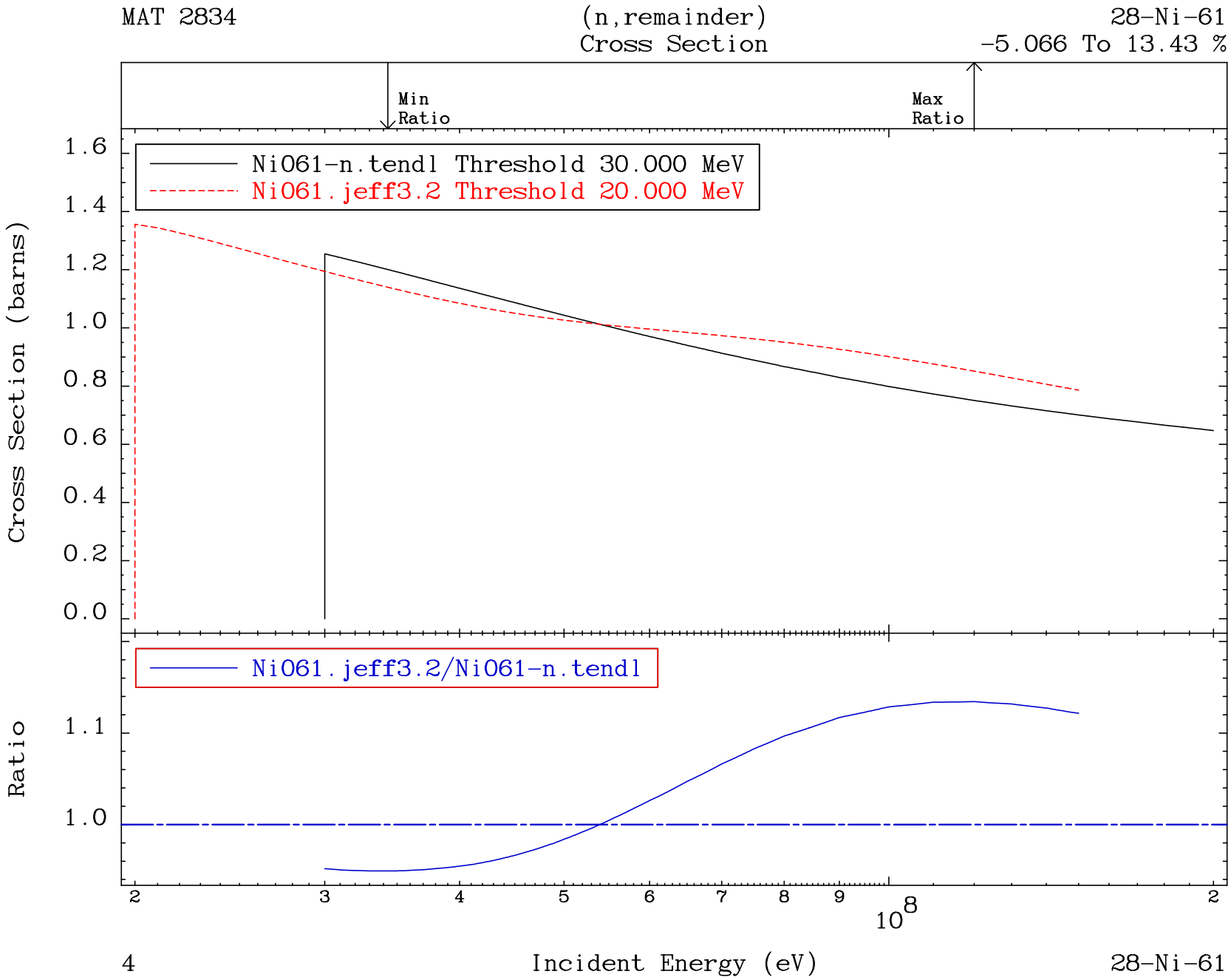
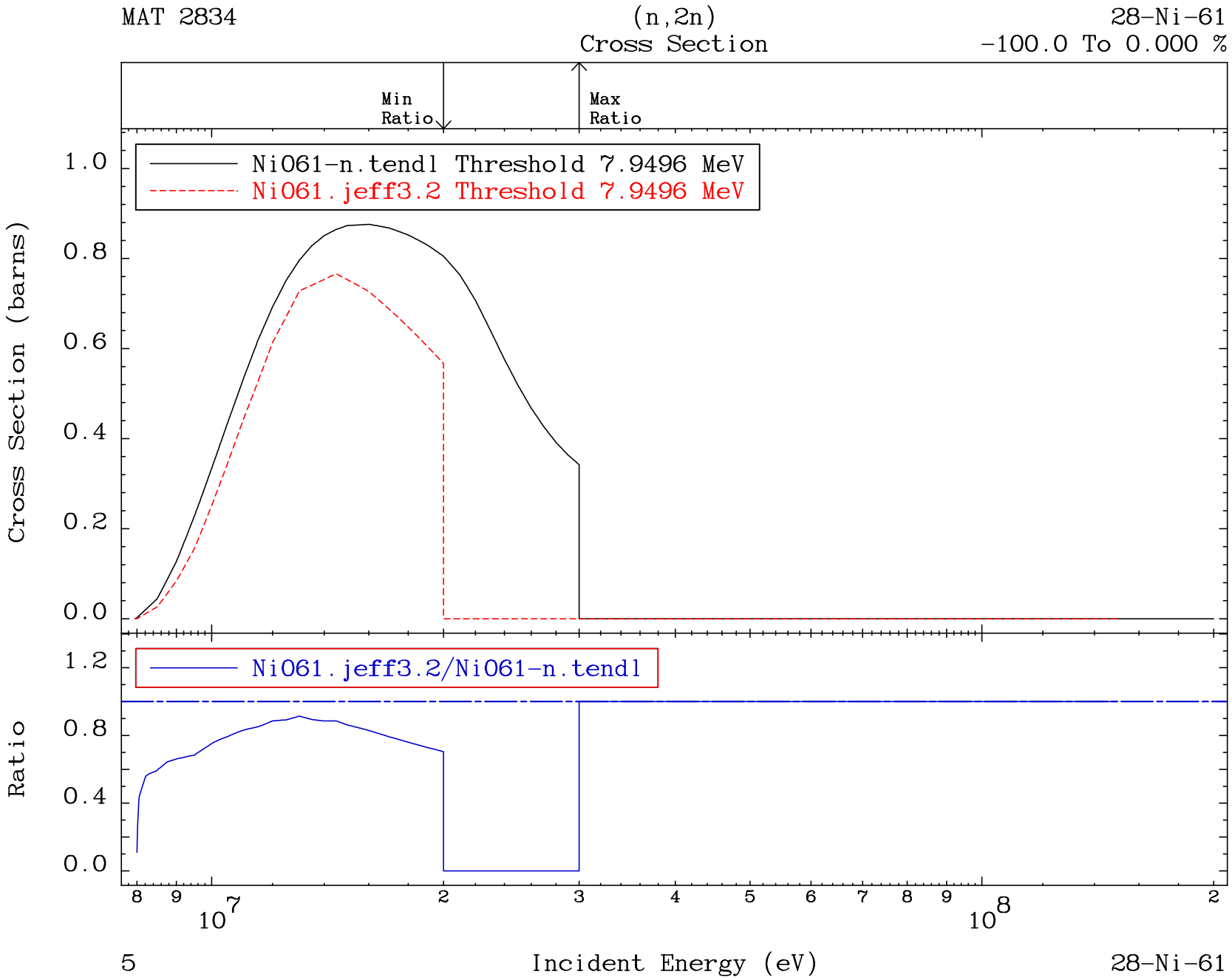
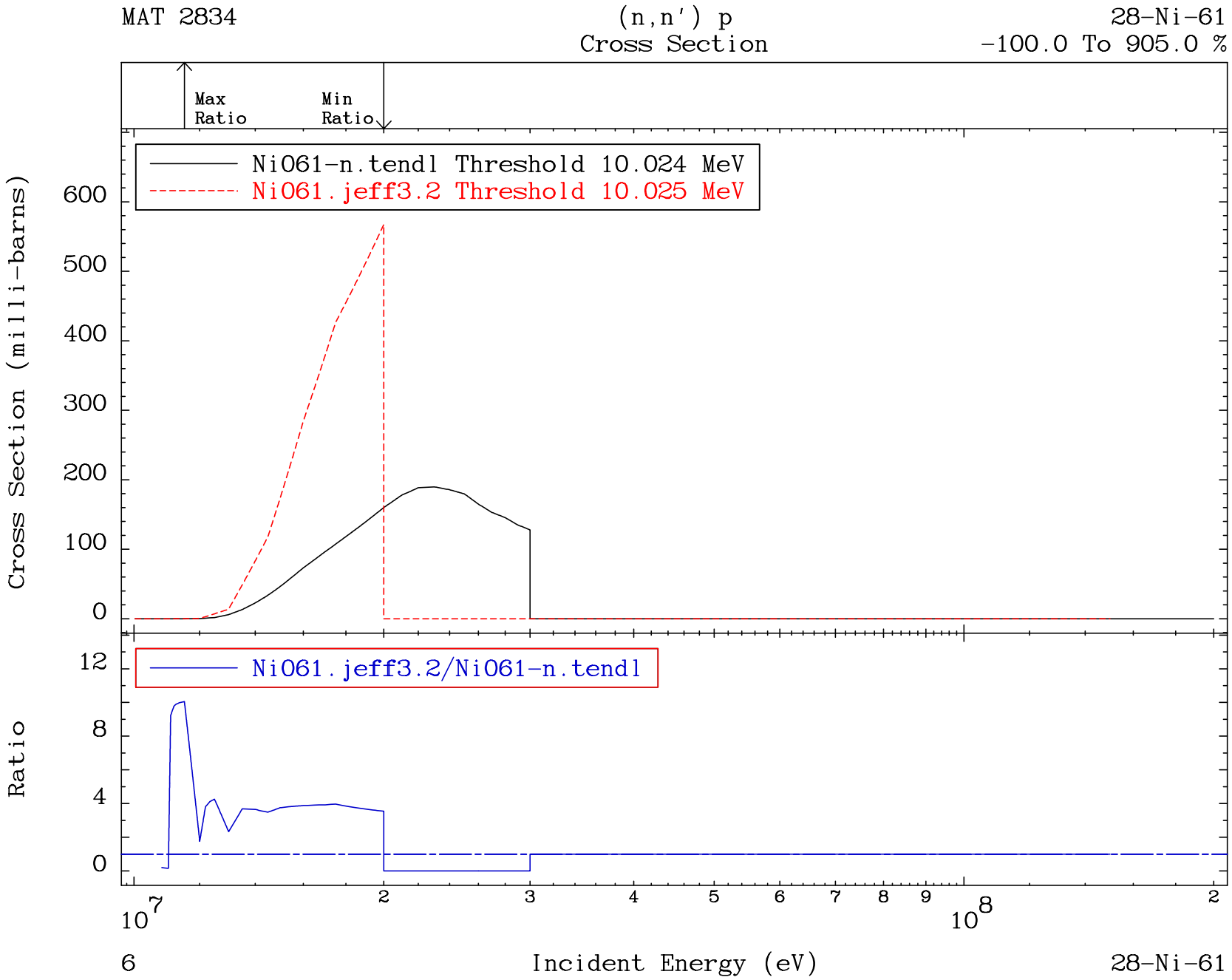

MAT 2834
Total
Cross Section
28-Ni-61
-98.90 To 230.0 %
Min
Ratio
Max
Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
1
28-Ni-61

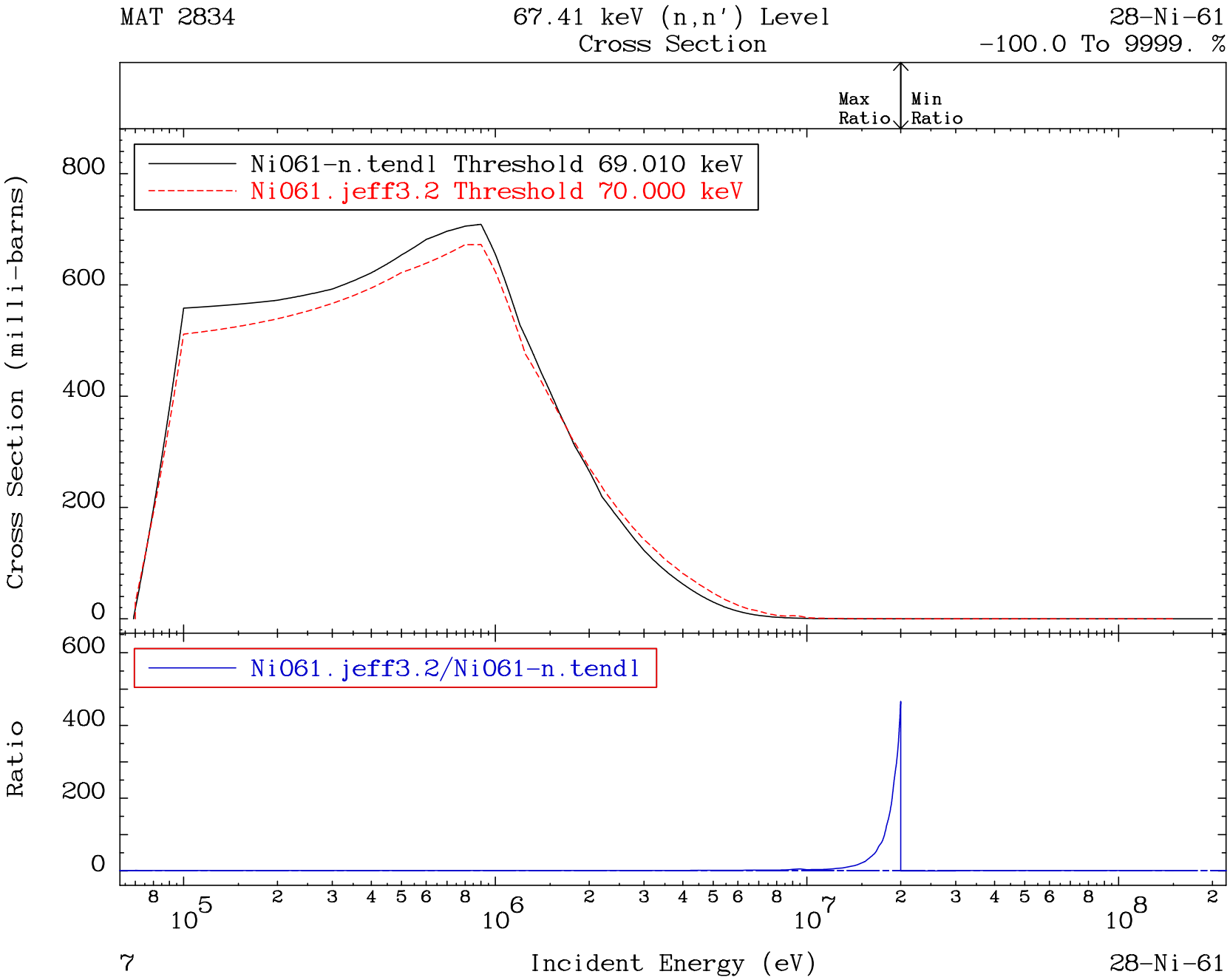

MAT 2834
Elastic
Cross Section
28-Ni-61
-100.0 To 678.1 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
2
28-Ni-61

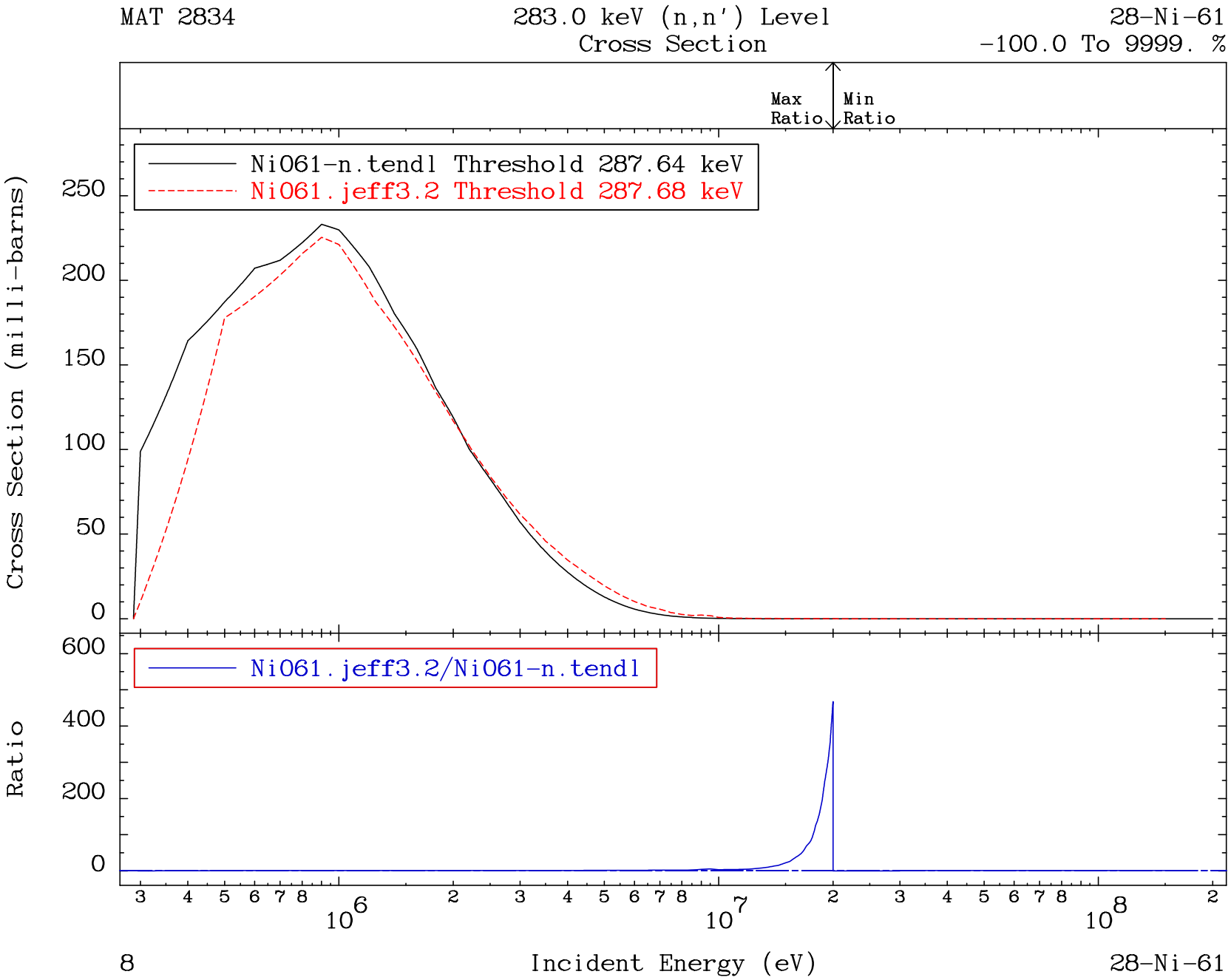

MAT 2834
Inelastic
Cross Section
28-Ni-61
-100.0 To 70.06 %
Max
Ratio
Min
Ratio
Ni061-n.tendl Threshold 69.010 keV
Ni061.jeff3.2 Threshold 70.000 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
2.0
1.0
0.0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
28-Ni-61

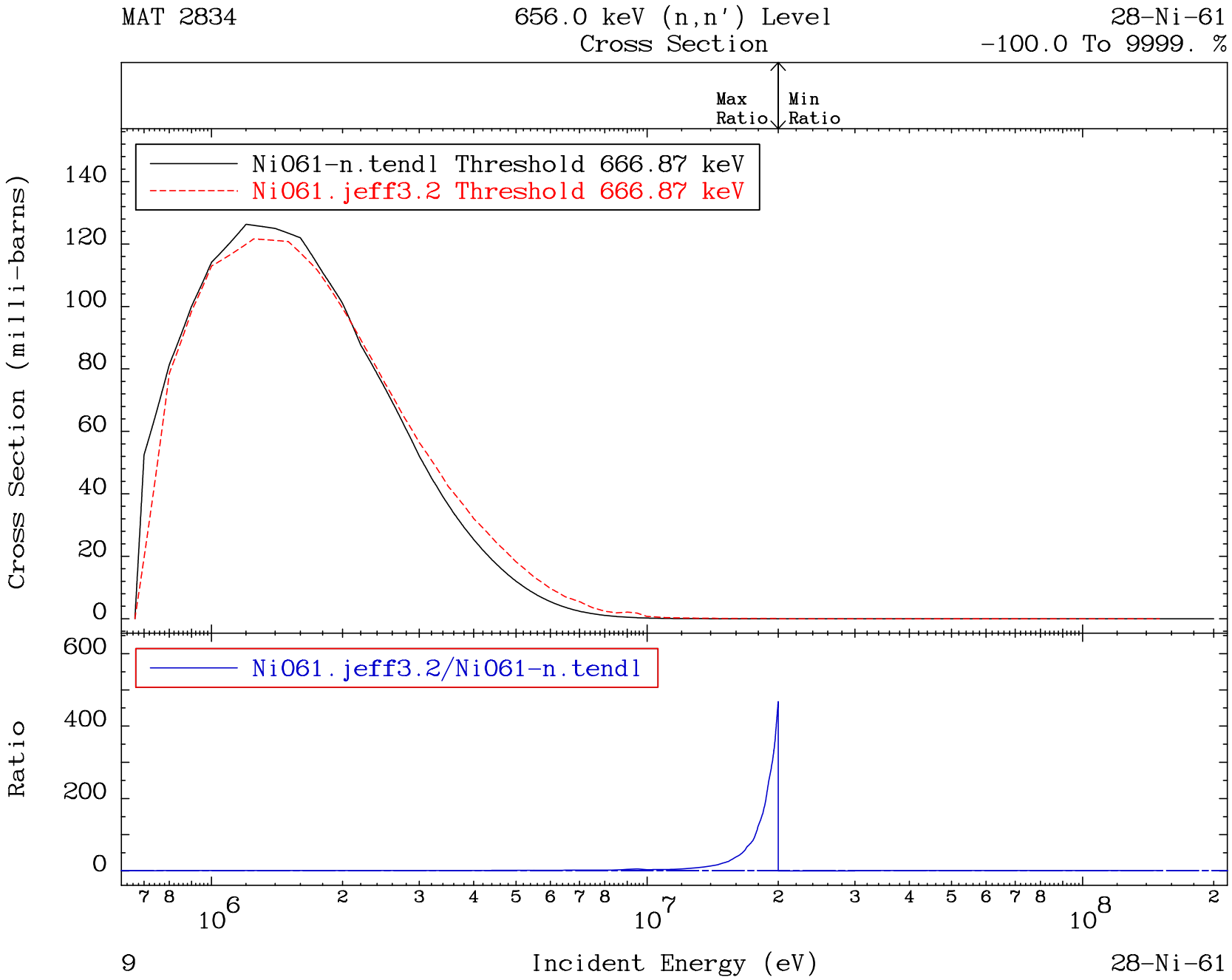

MAT 2834
(n,remainder)
Cross Section
28-Ni-61
-5.066 To 13.43 %
Min
Ratio
Max
Ratio
Ni061-n.tendl Threshold 30.000 MeV
Ni061.jeff3.2 Threshold 20.000 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
28-Ni-61

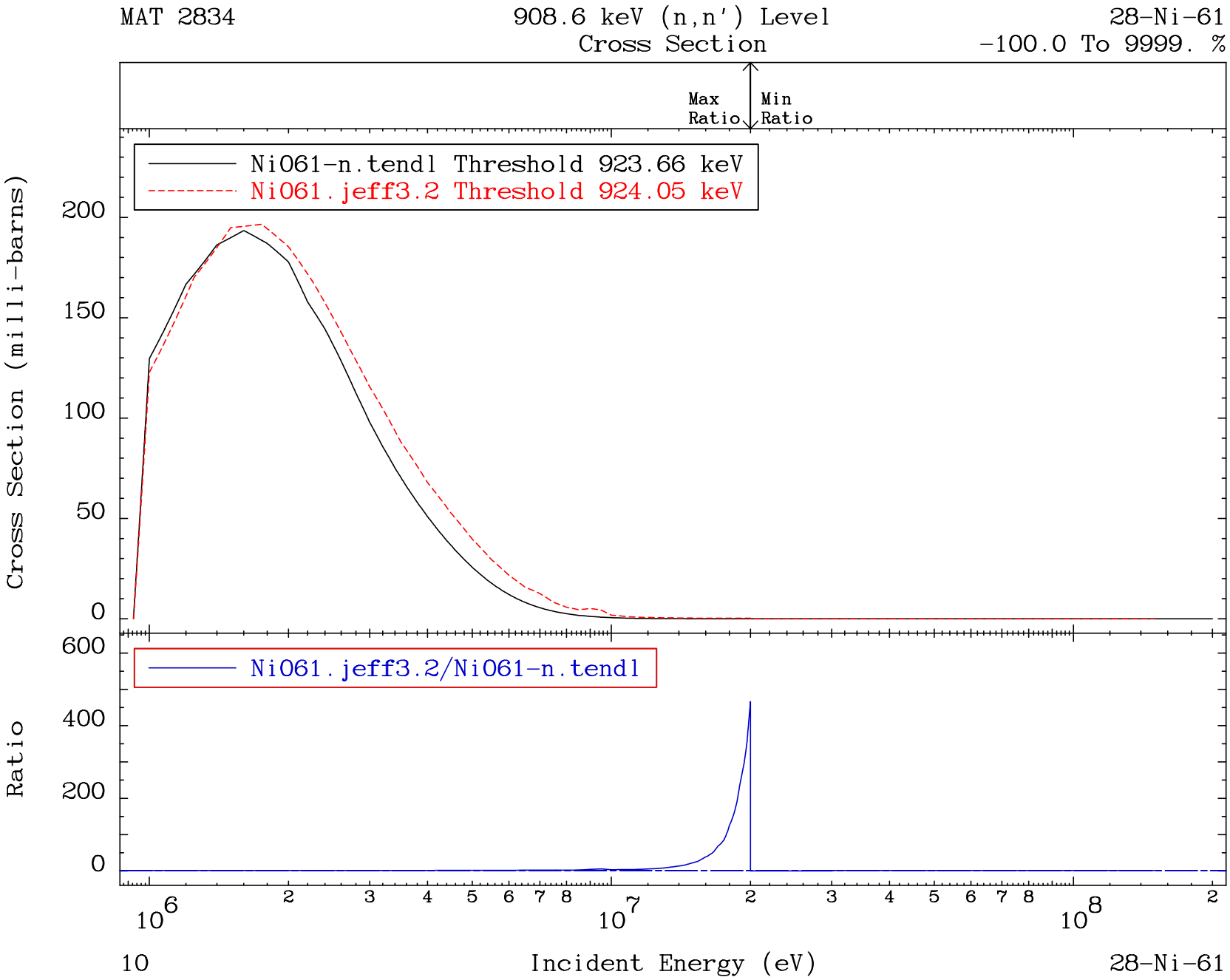

MAT 2834
(n,2n)
Cross Section
28-Ni-61
-100.0 To 0.000 %
Min Ratio
Max Ratio
Ni061-n.tendl Threshold 7.9496 MeV
Ni061.jeff3.2 Threshold 7.9496 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
1.2
0.8
0.4
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
28-Ni-61

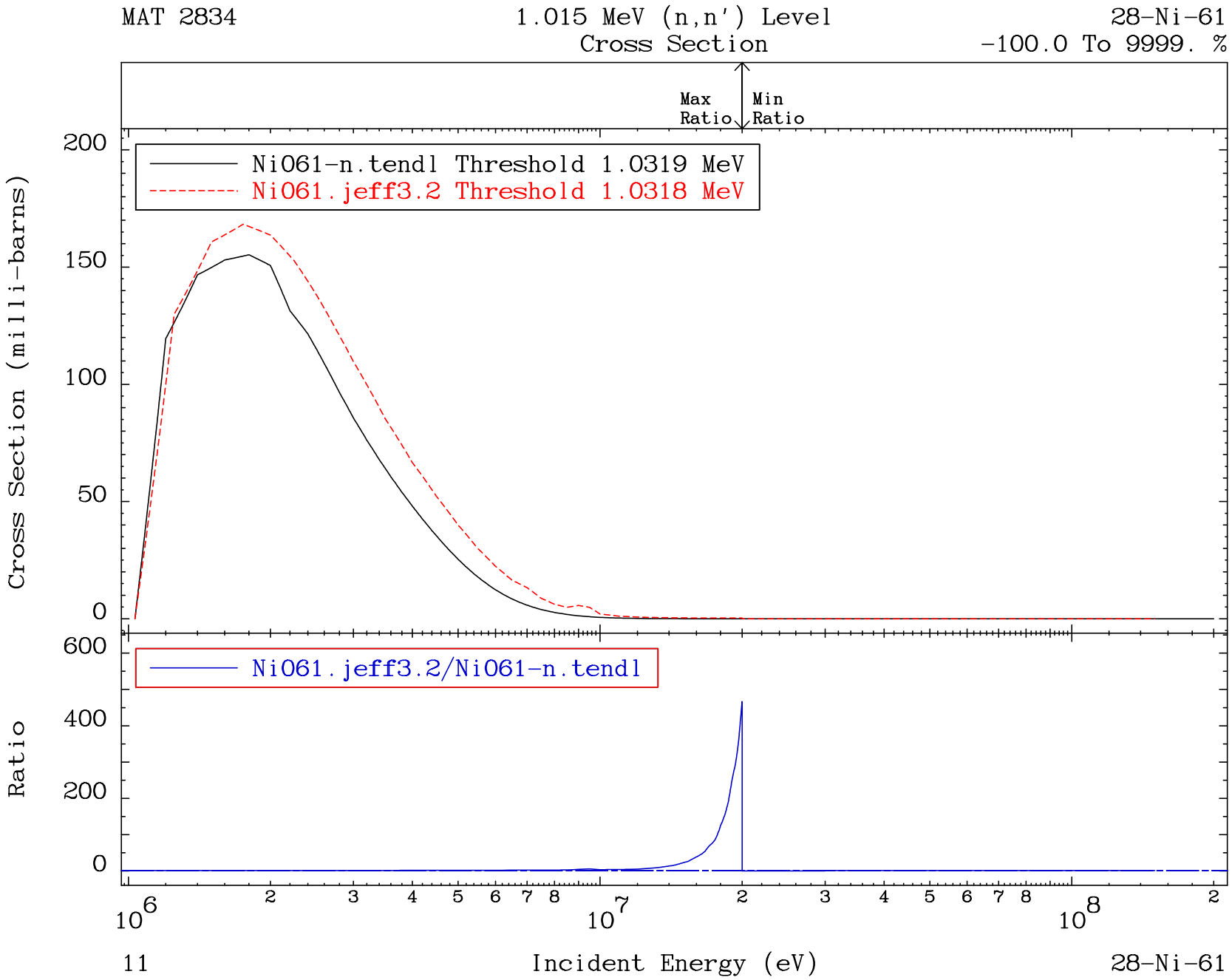

MAT 2834
(n,n') p
Cross Section
28-Ni-61
-100.0 To 905.0 %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 10.024 MeV
Ni061.jeff3.2 Threshold 10.025 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
12
8
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
28-Ni-61

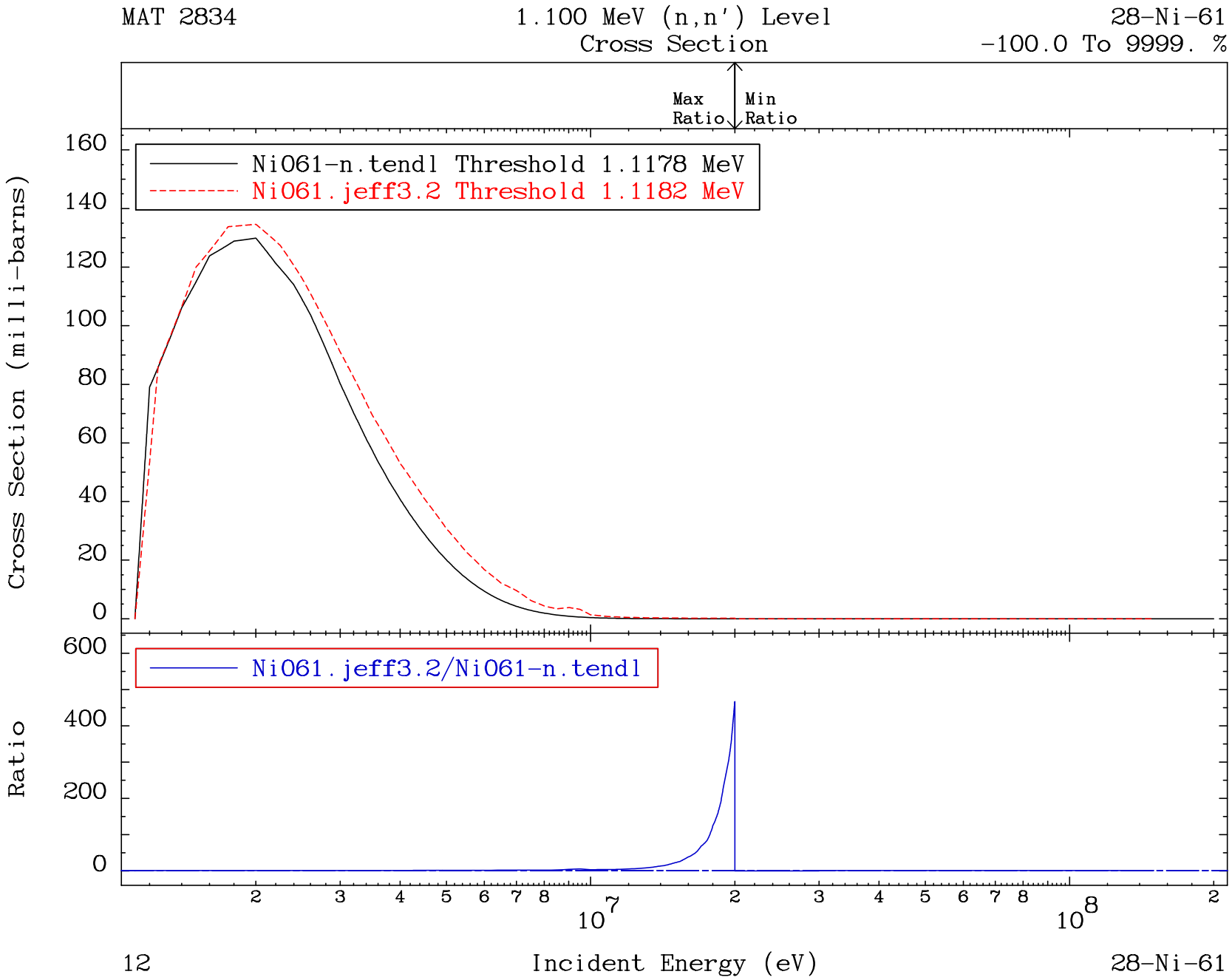

MAT 2834
67.41 keV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 69.010 keV
Ni061.jeff3.2 Threshold 70.000 keV
Cross Section (milli-barns)
800
600
400
200
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
8
2
3
4
5
6
8
10^5
10^6
10^7
10^8
7
Incident Energy (eV)
28-Ni-61

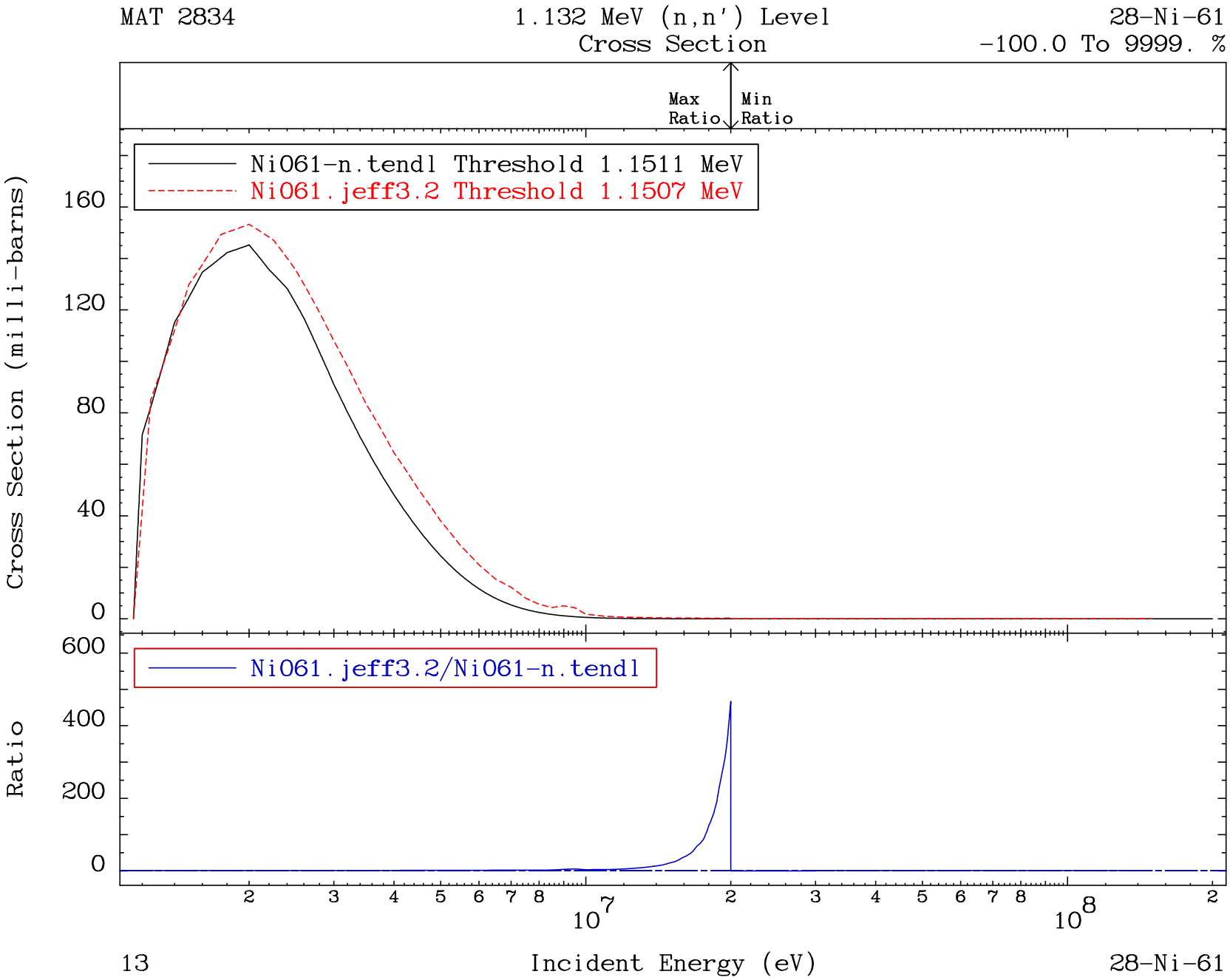

MAT 2834
283.0 keV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 287.64 keV
Ni061.jeff3.2 Threshold 287.68 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
28-Ni-61

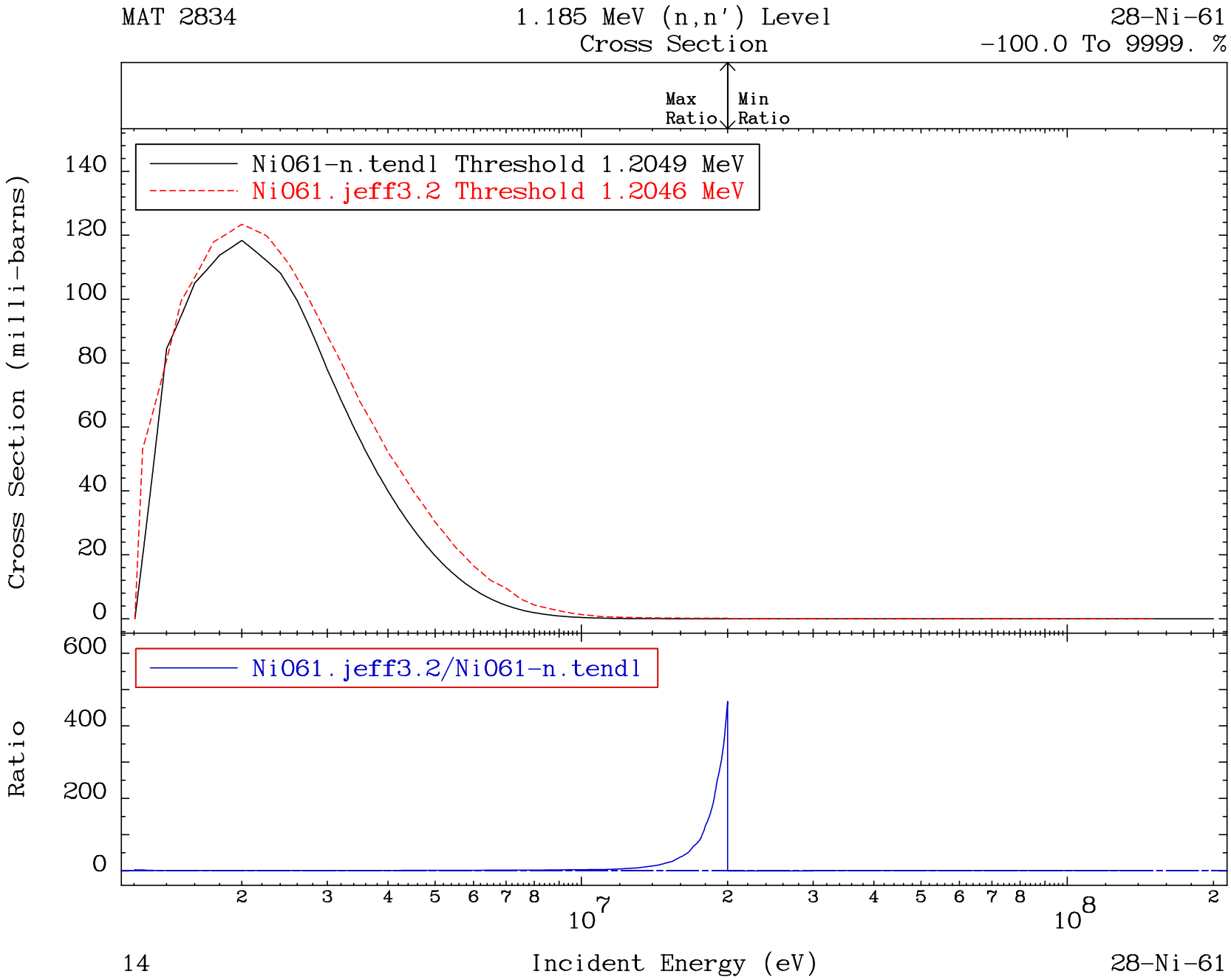

MAT 2834
656.0 keV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 666.87 keV
Ni061.jeff3.2 Threshold 666.87 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
9
Incident Energy (eV)
28-Ni-61

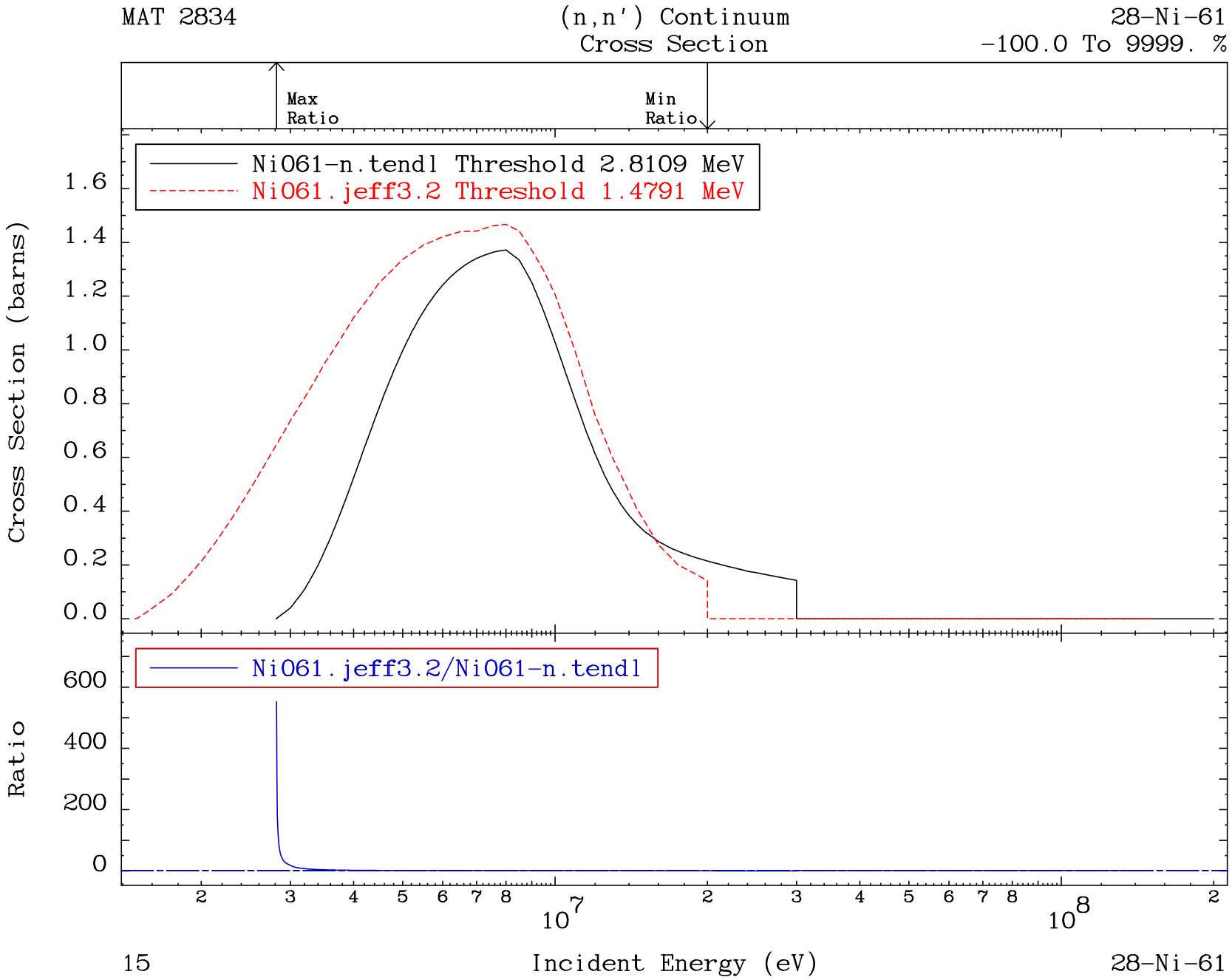

MAT 2834
908.6 keV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 923.66 keV
Ni061.jeff3.2 Threshold 924.05 keV
Cross Section (milli-barns)
200
150
100
50
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
28-Ni-61

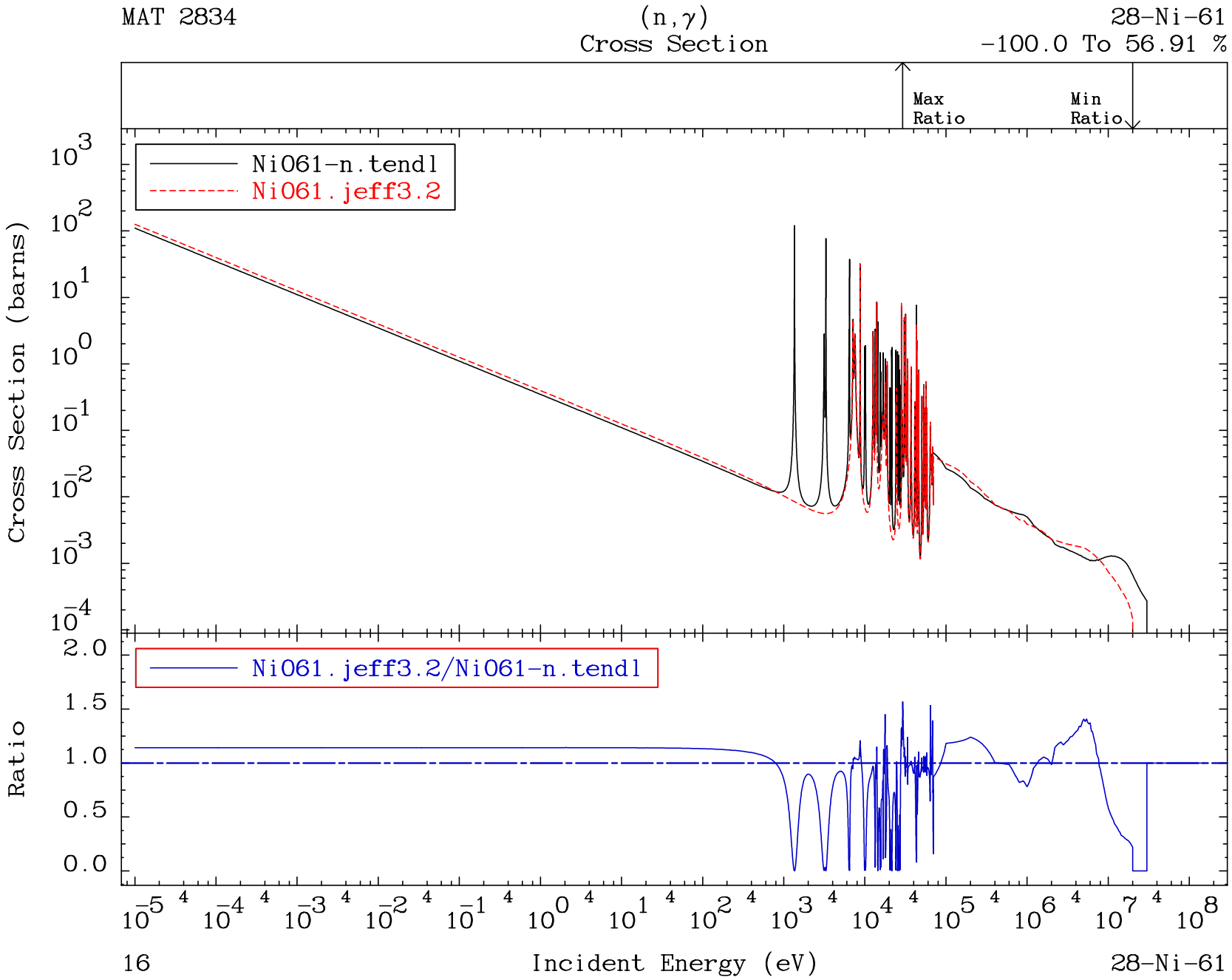

MAT 2834
1.015 MeV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 1.0319 MeV
Ni061.jeff3.2 Threshold 1.0318 MeV
Cross Section (milli-barns)
200
150
100
50
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
28-Ni-61

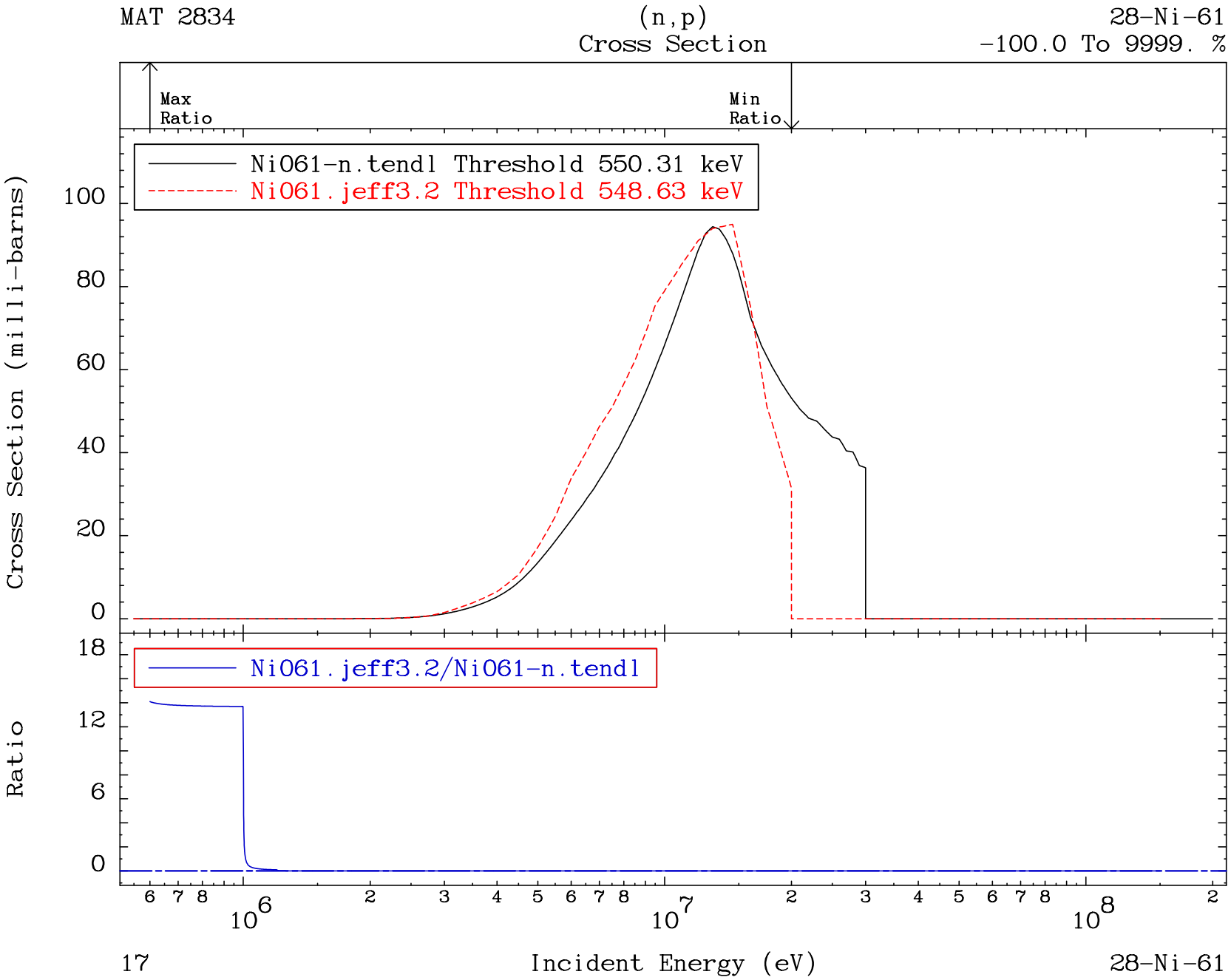

MAT 2834
1.100 MeV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 1.1178 MeV
Ni061.jeff3.2 Threshold 1.1182 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
28-Ni-61

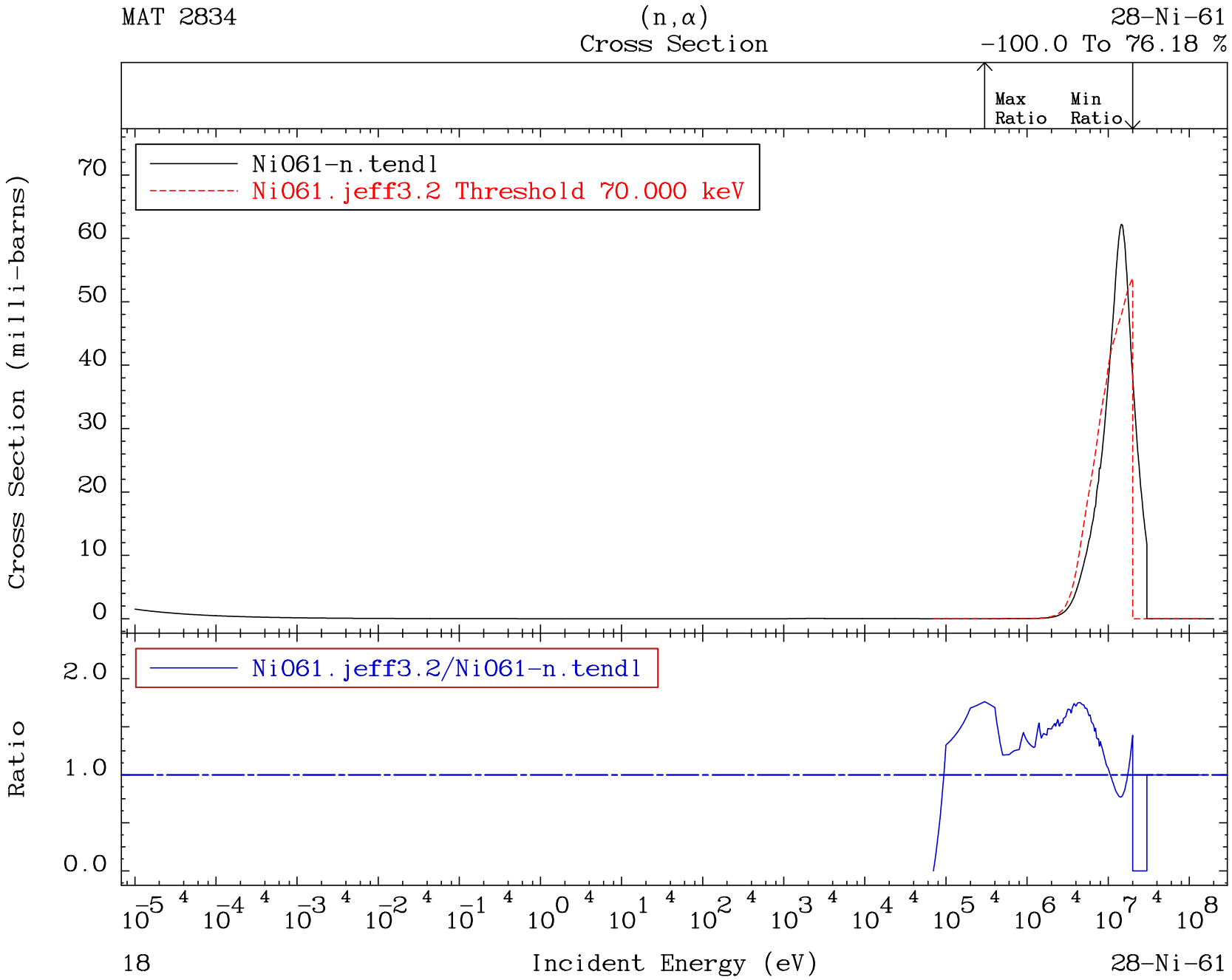

MAT 2834
1.132 MeV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 1.1511 MeV
Ni061.jeff3.2 Threshold 1.1507 MeV
Cross Section (milli-barns)
160
120
80
40
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
28-Ni-61

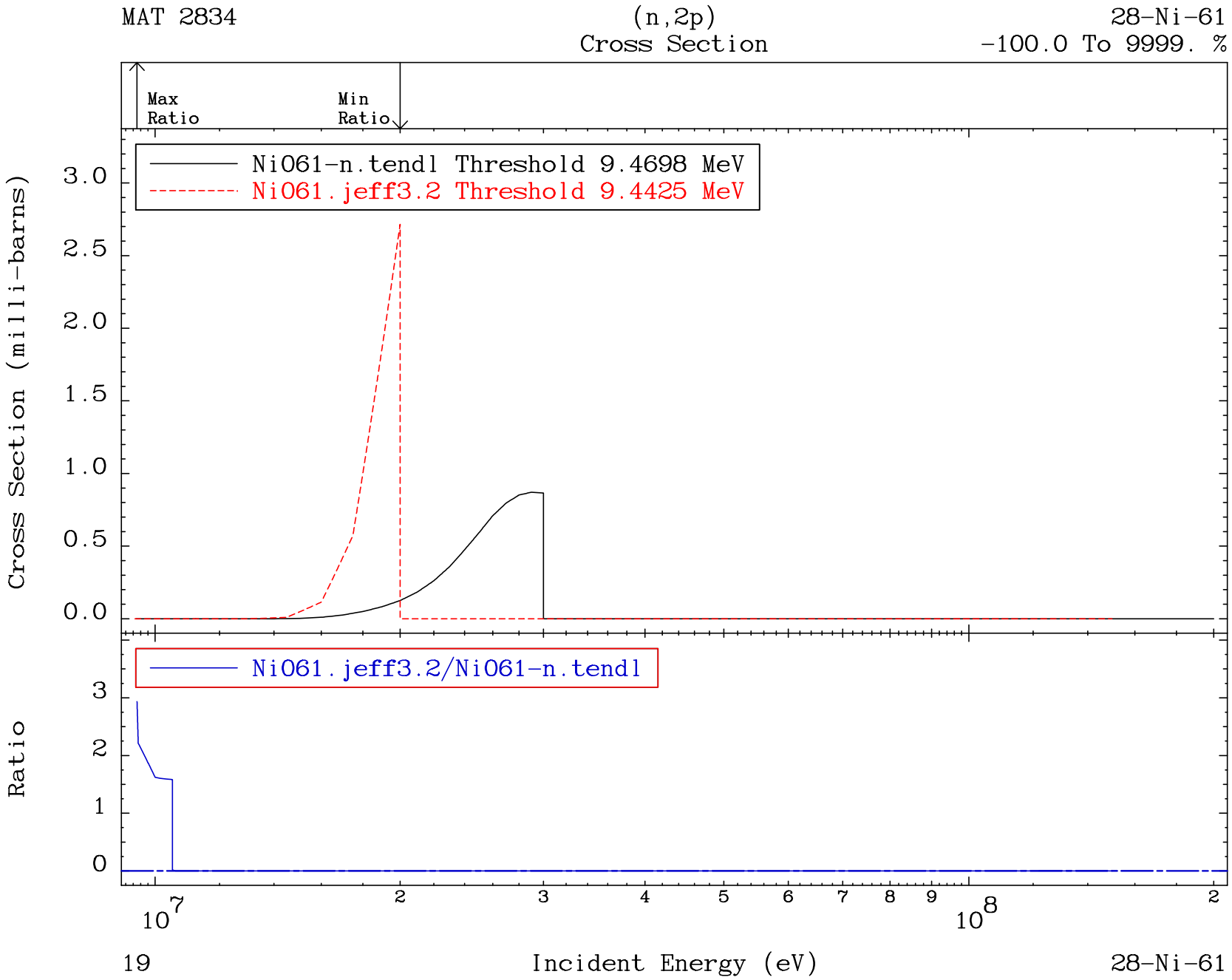

MAT 2834
1.185 MeV (n,n') Level
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 1.2049 MeV
Ni061.jeff3.2 Threshold 1.2046 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
28-Ni-61

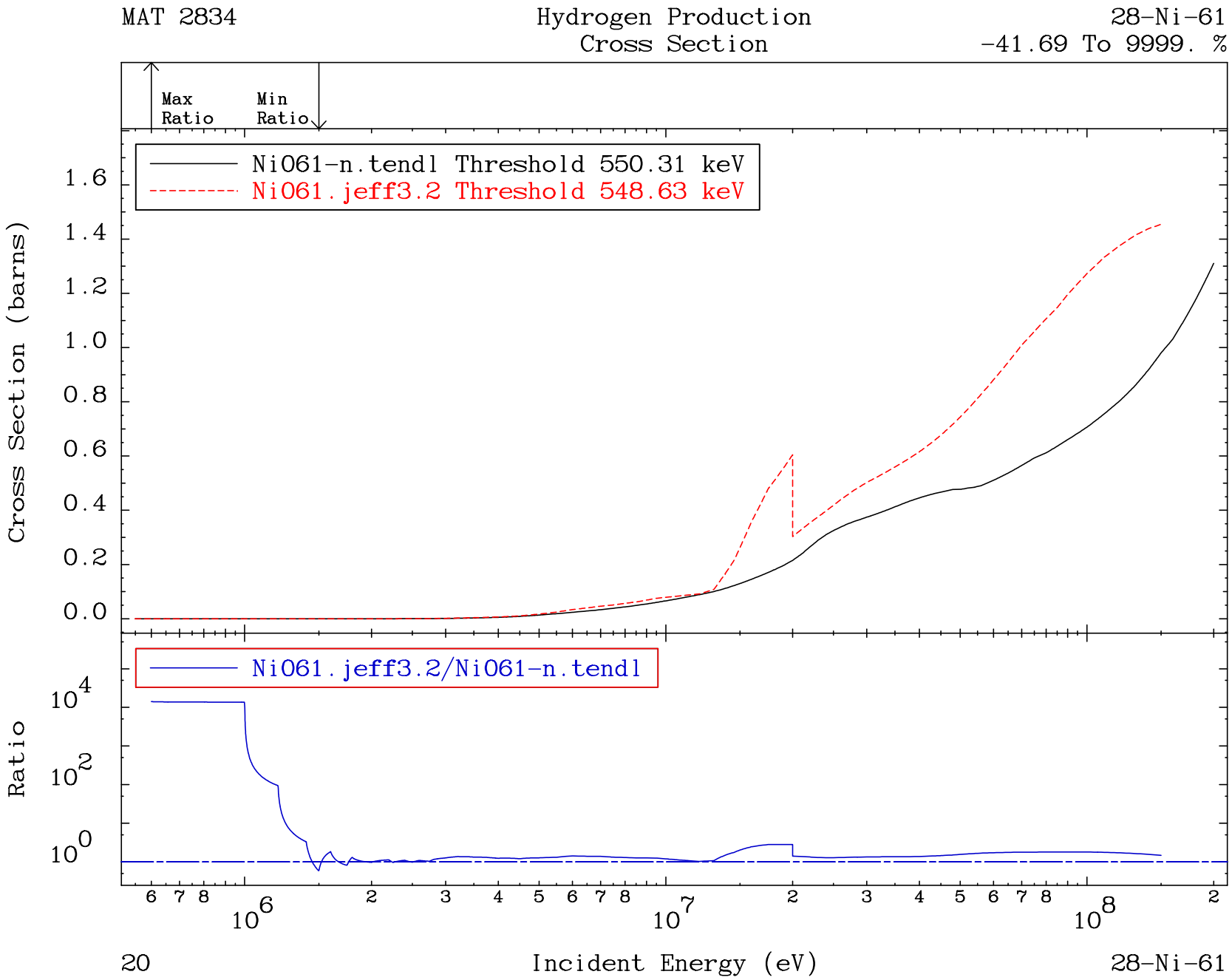

MAT 2834
(n,n') Continuum
Cross Section
28-Ni-61
-100.0 To 9999. %
Max
Ratio
Min
Ratio
Ni061-n.tendl Threshold 2.8109 MeV
Ni061.jeff3.2 Threshold 1.4791 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
600
400
200
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
28-Ni-61

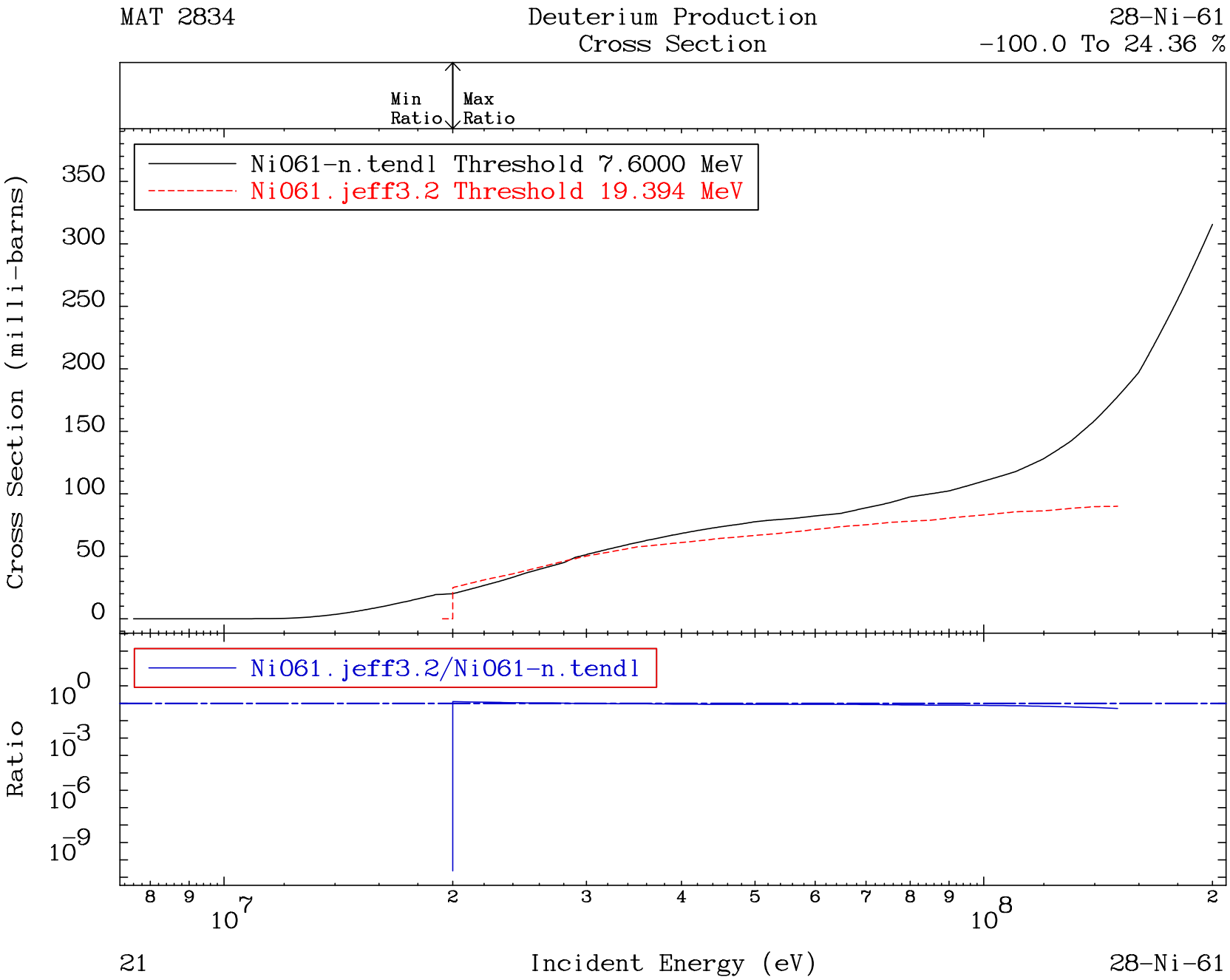

MAT 2834
(n,γ)
Cross Section
28-Ni-61
-100.0 To 56.91 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
16
28-Ni-61

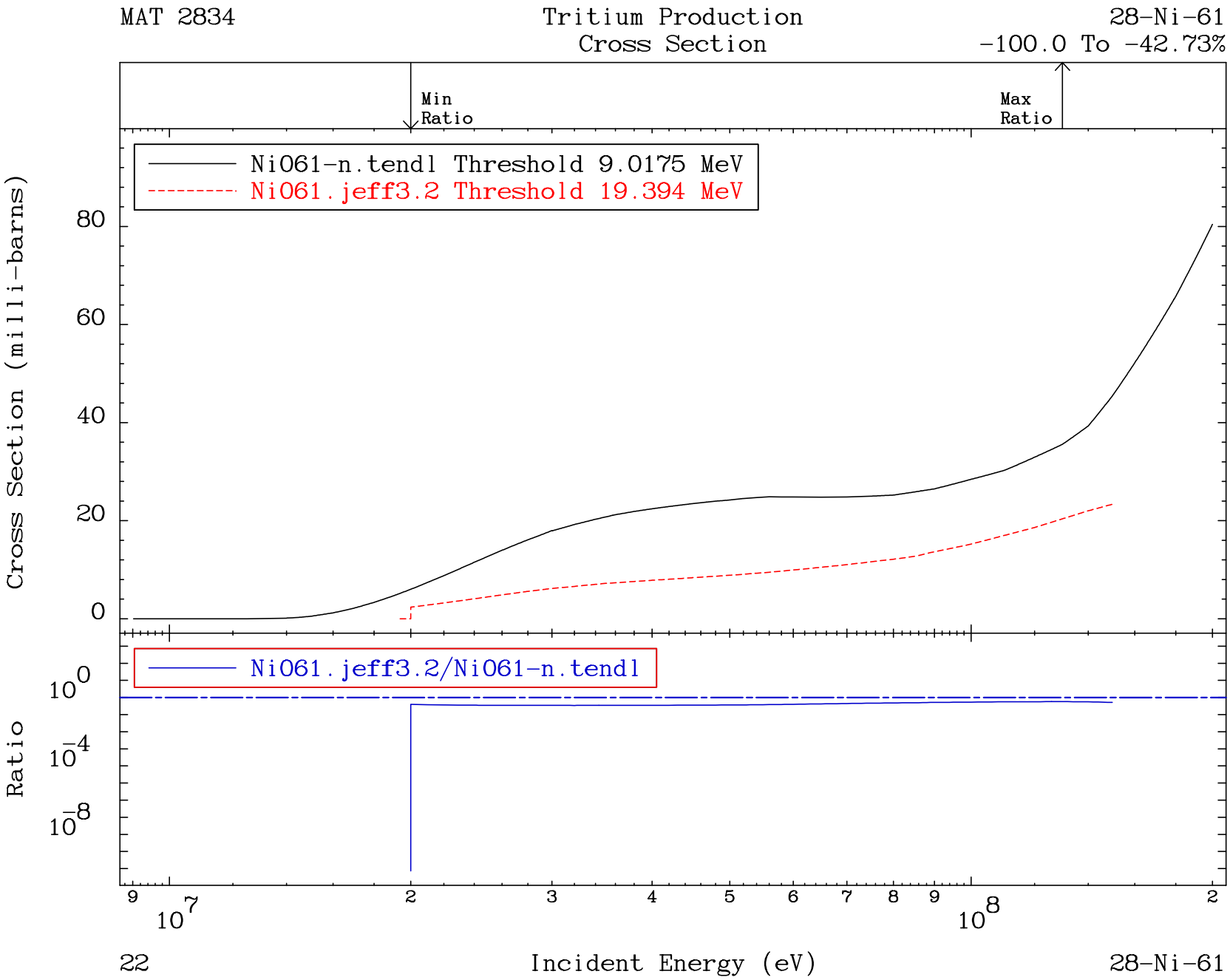

MAT 2834
(n,p)
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 550.31 keV
Ni061.jeff3.2 Threshold 548.63 keV
Cross Section (milli-barns)
100
80
60
40
20
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
18
12
6
0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
28-Ni-61

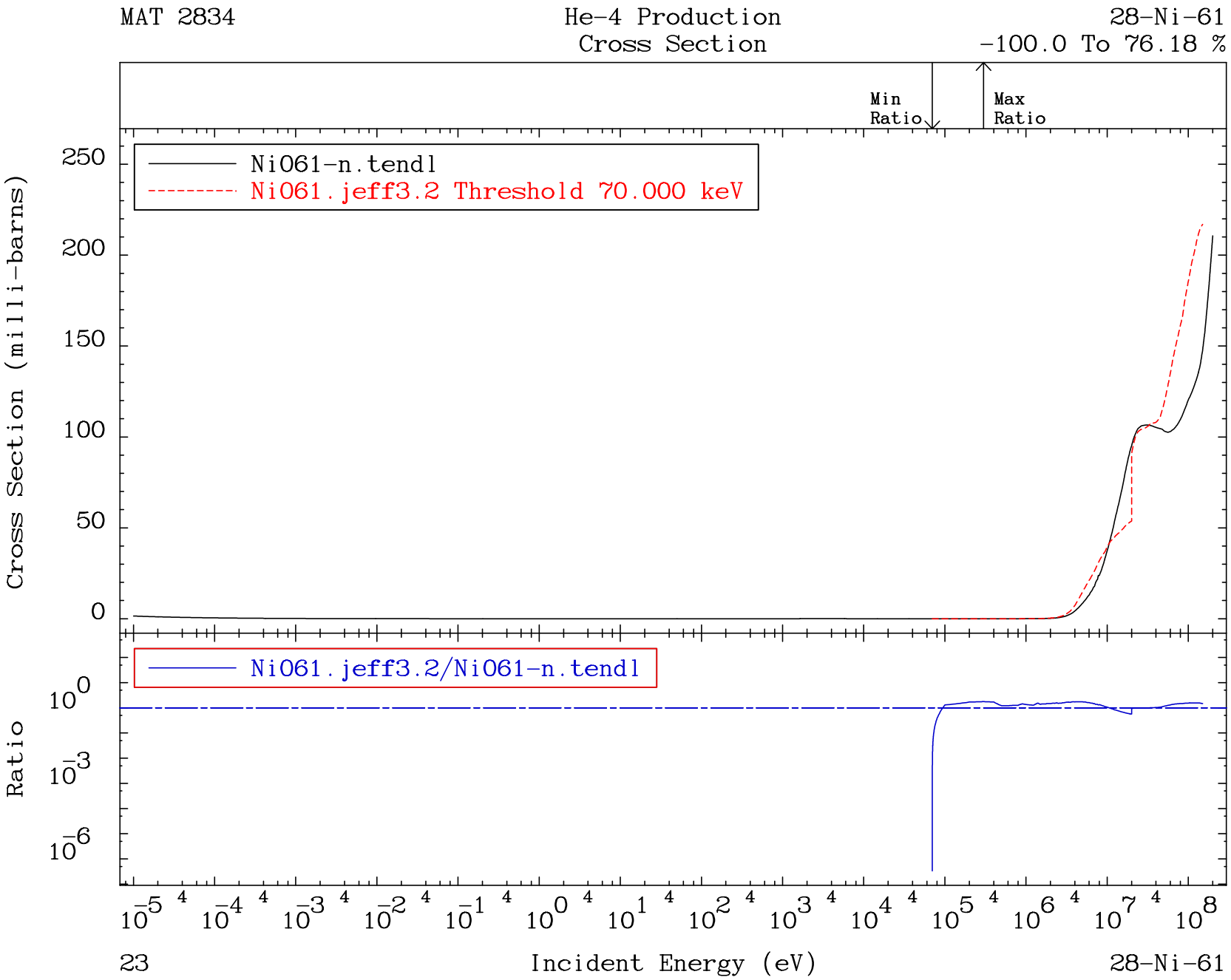

MAT 2834
(n,α)
Cross Section
28-Ni-61
-100.0 To 76.18 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2 Threshold 70.000 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
18
Incident Energy (eV)
28-Ni-61

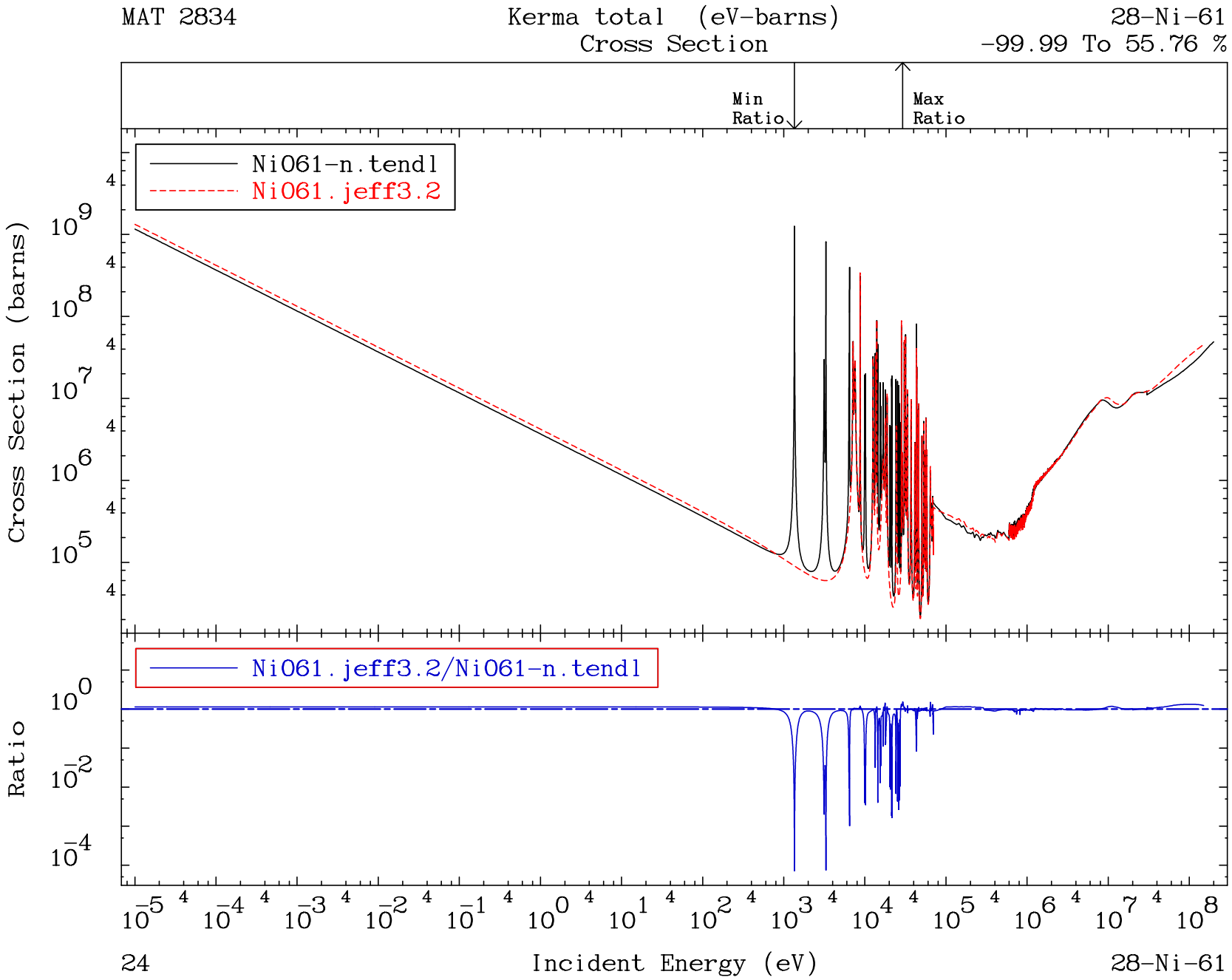

MAT 2834
(n,2p)
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 9.4698 MeV
Ni061.jeff3.2 Threshold 9.4425 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
3
2
1
0
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
28-Ni-61

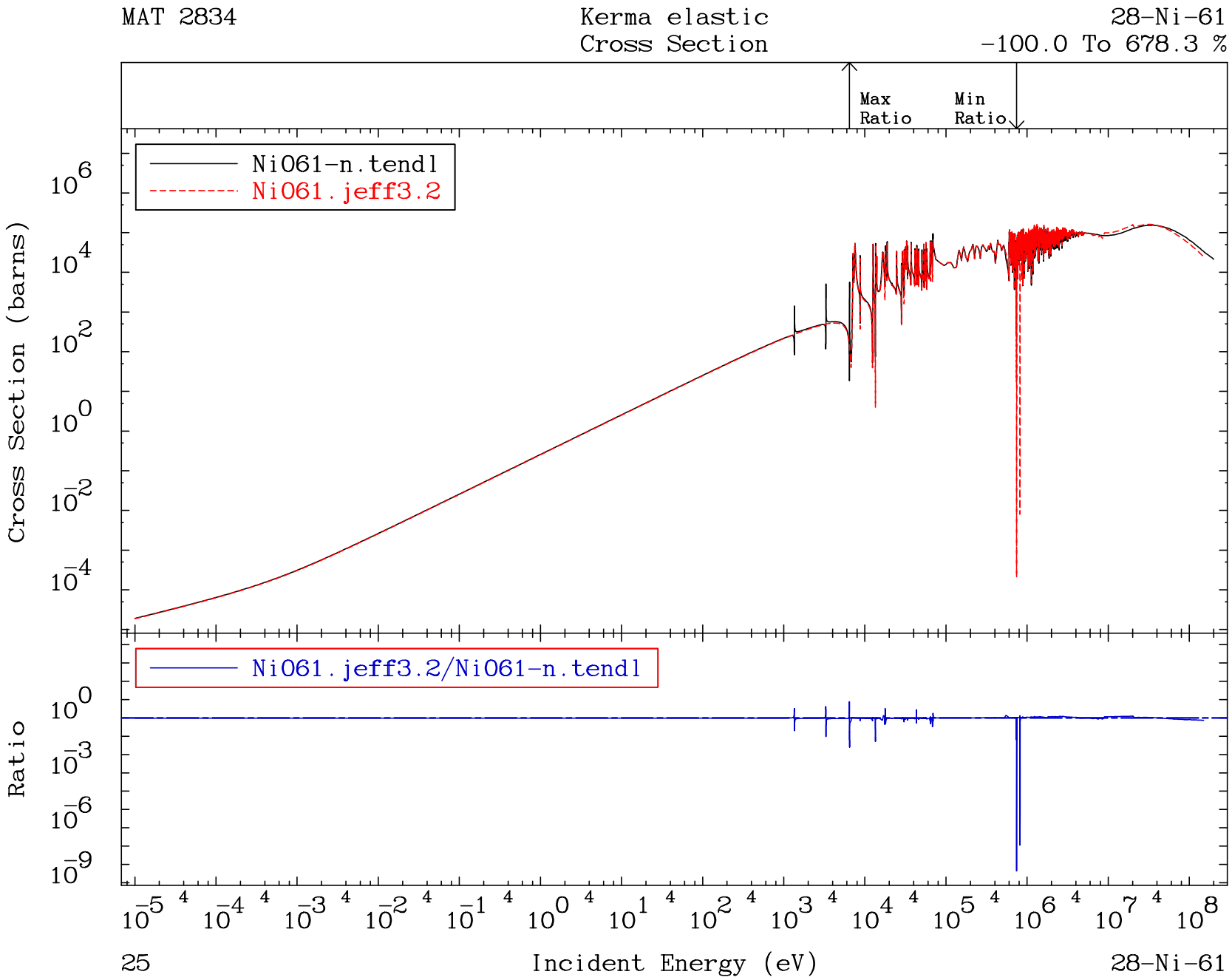

MAT 2834
Hydrogen Production
Cross Section
28-Ni-61
-41.69 To 9999. %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 550.31 keV
Ni061.jeff3.2 Threshold 548.63 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
10^4
10^2
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
28-Ni-61

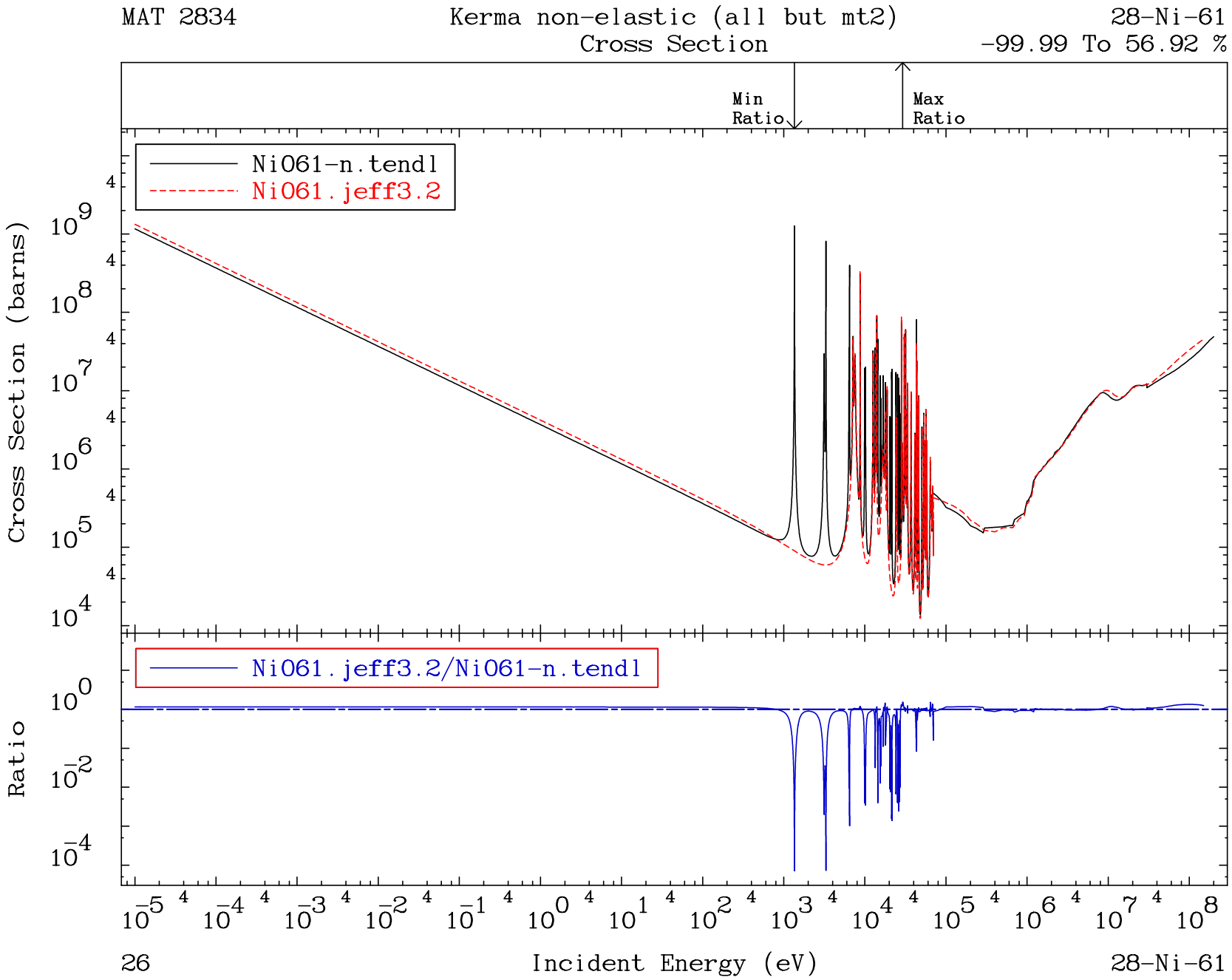

MAT 2834
Deuterium Production
Cross Section
28-Ni-61
-100.0 To 24.36 %
Min Ratio
Max Ratio
Ni061-n.tendl Threshold 7.6000 MeV
Ni061.jeff3.2 Threshold 19.394 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
10^0
10^-3
10^-6
10^-9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
28-Ni-61

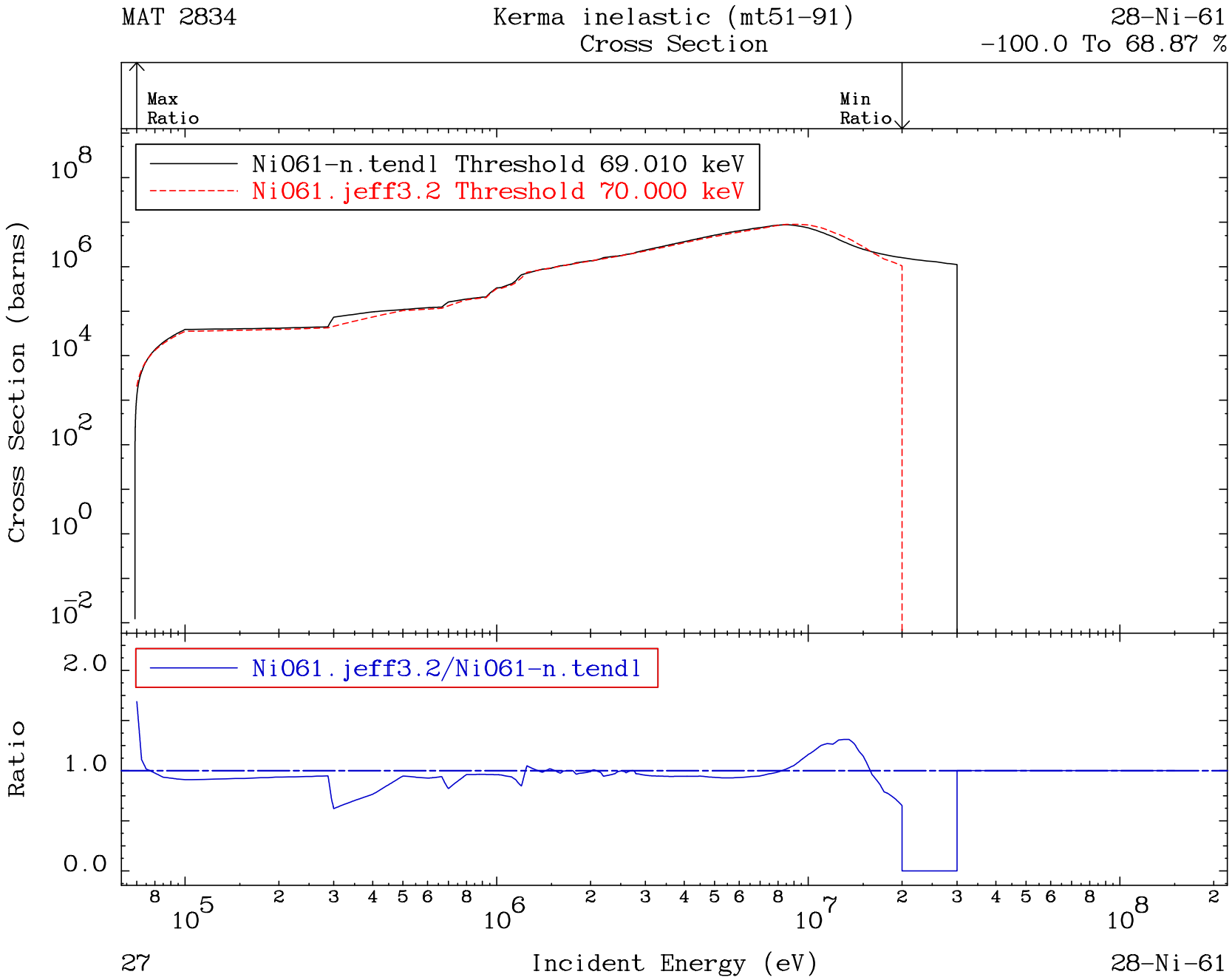

MAT 2834
Tritium Production
Cross Section
28-Ni-61
-100.0 To -42.73%
Min
Ratio
Max
Ratio
Ni061-n.tendl Threshold 9.0175 MeV
Ni061.jeff3.2 Threshold 19.394 MeV
Cross Section (milli-barns)
80
60
40
20
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
10^0
10^-4
10^-8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
28-Ni-61

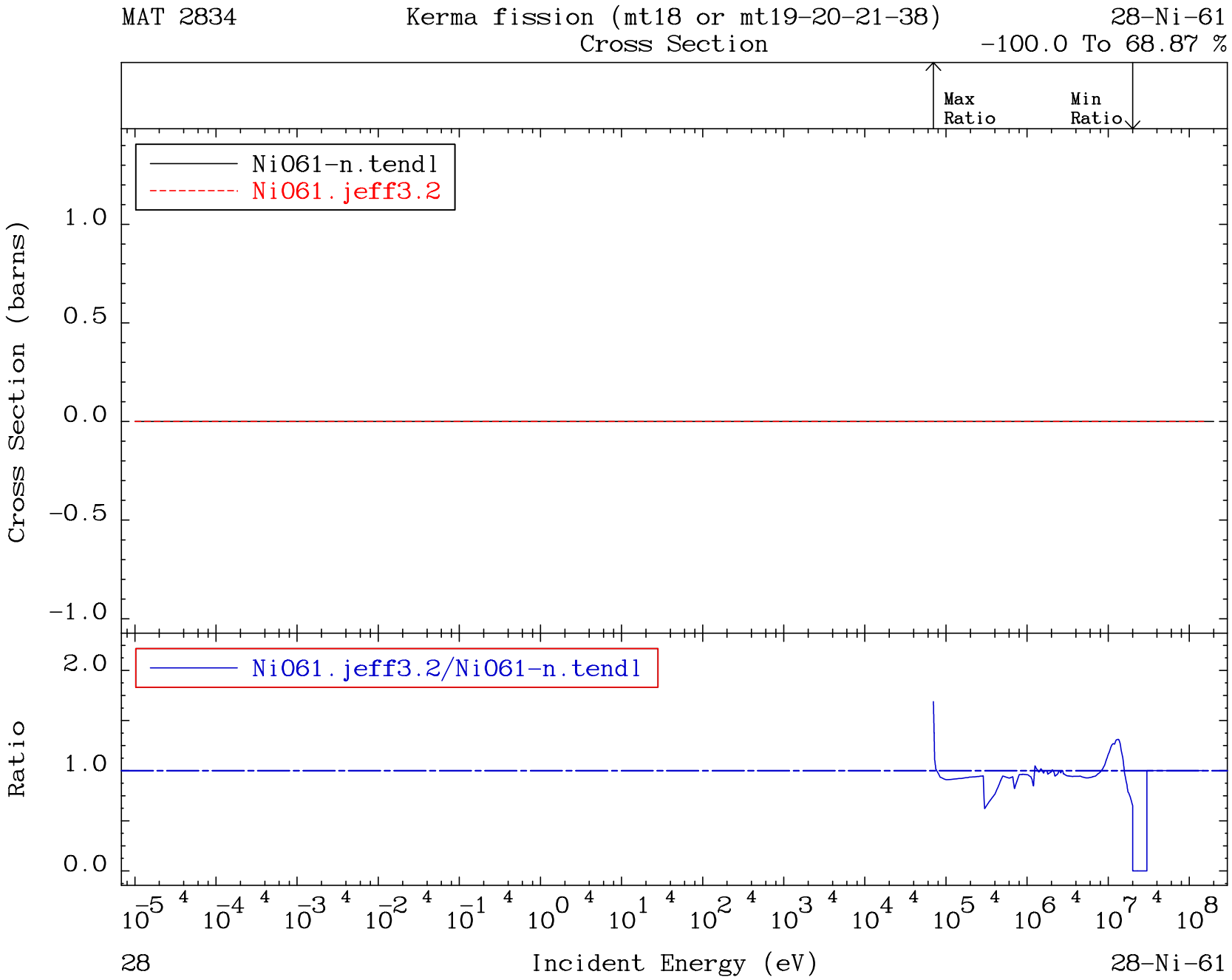

MAT 2834
He-4 Production
Cross Section
28-Ni-61
-100.0 To 76.18 %
Min Ratio
Max Ratio
Ni061-n.tendl
Ni061.jeff3.2 Threshold 70.000 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
10^0
10^-3
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
23
Incident Energy (eV)
28-Ni-61

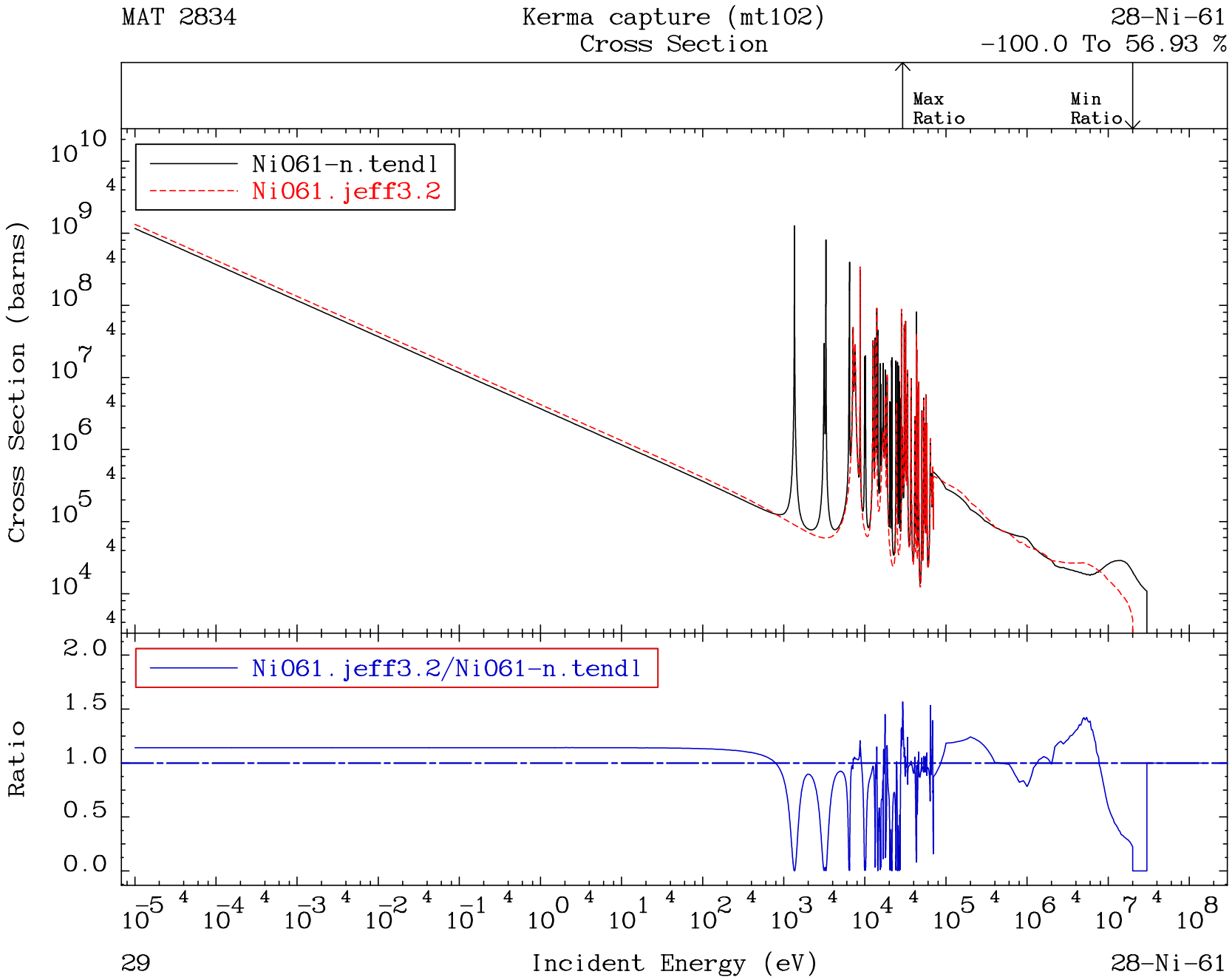

MAT 2834
Kerma total (eV-barns)
Cross Section
28-Ni-61
-99.99 To 55.76 %
Min Ratio
Max Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
24
28-Ni-61

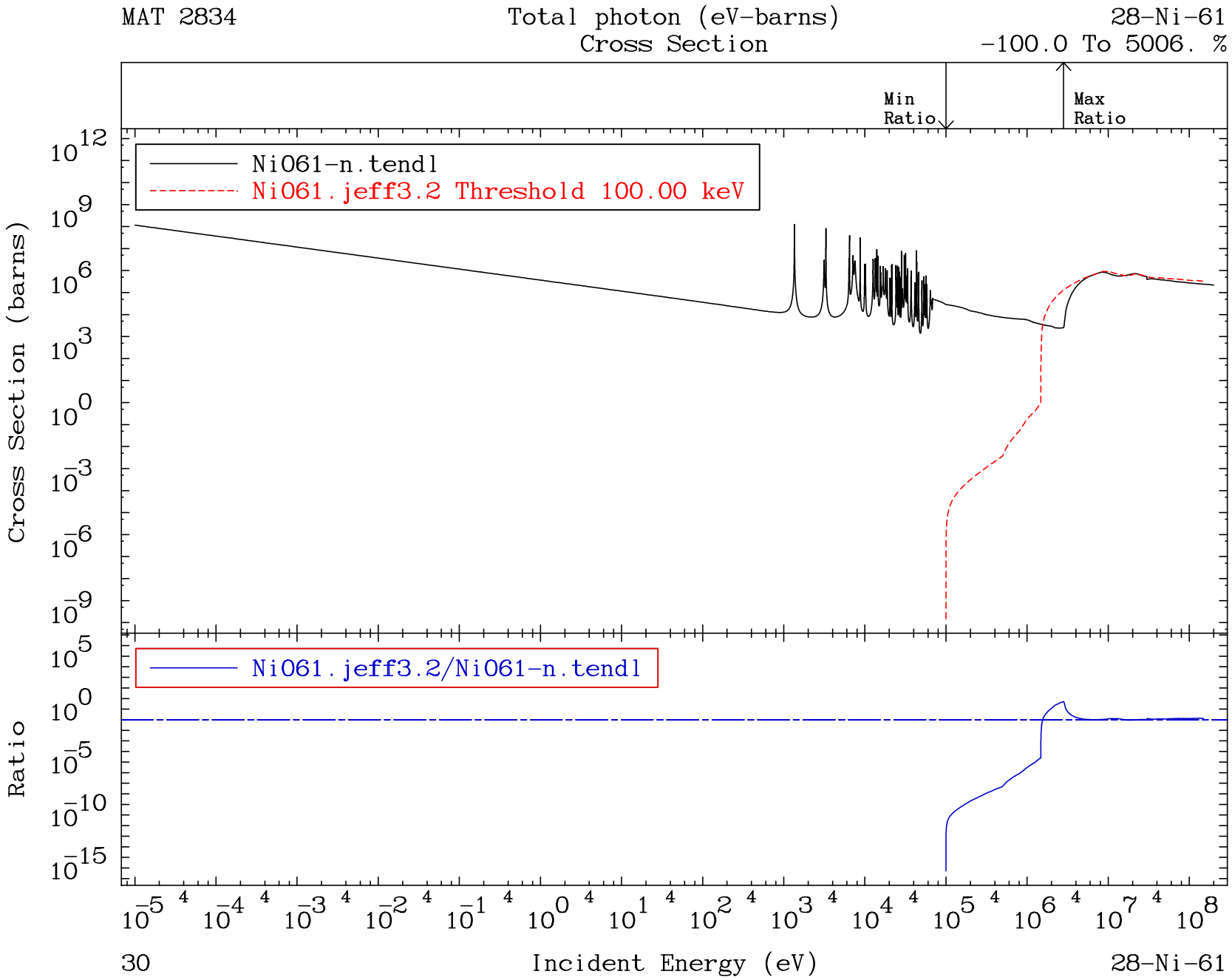

MAT 2834
Kerma elastic
Cross Section
28-Ni-61
-100.0 To 678.3 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
25
28-Ni-61

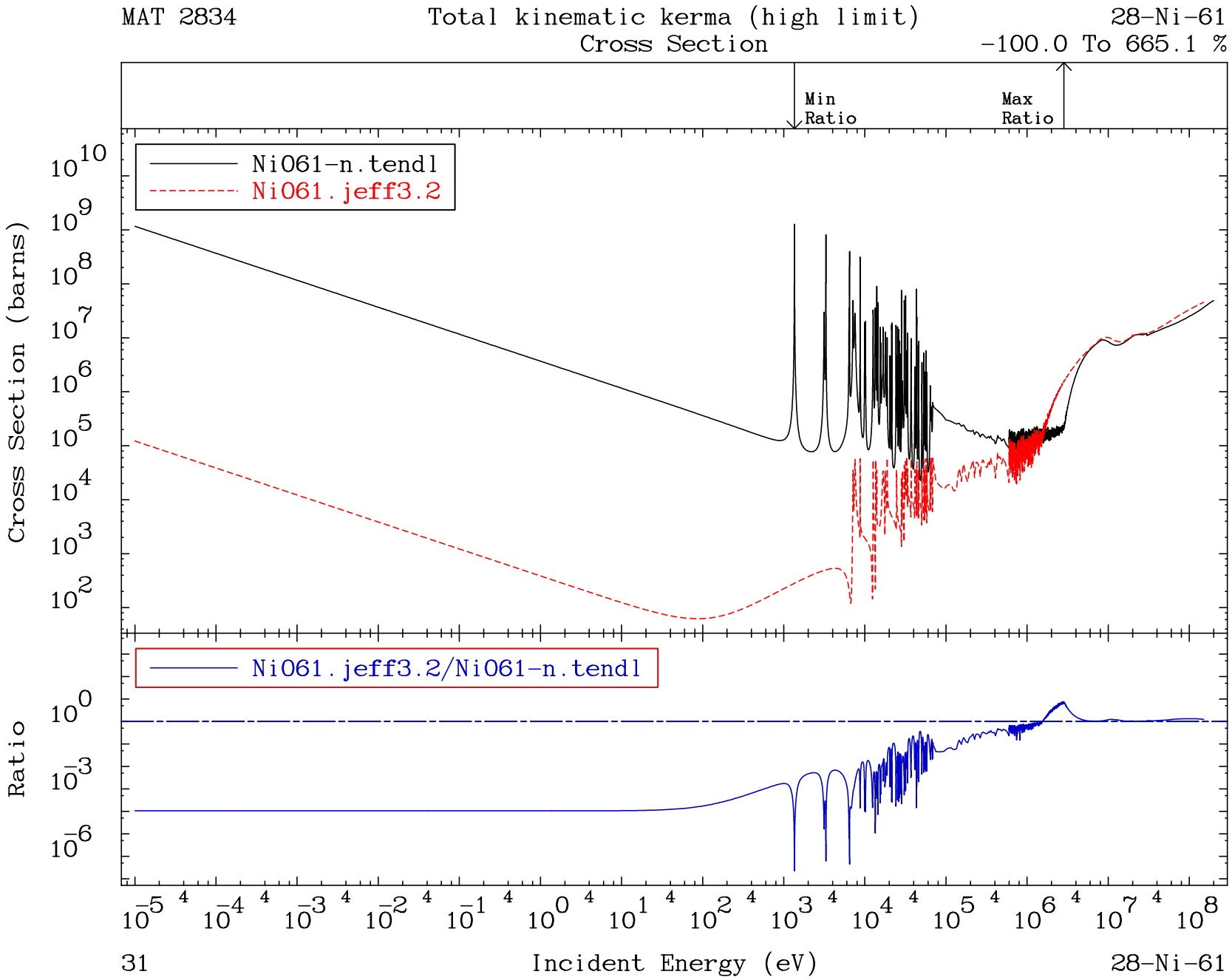

MAT 2834
Kerma non-elastic (all but mt2)
Cross Section
28-Ni-61
-99.99 To 56.92 %
Min Ratio
Max Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
26
28-Ni-61

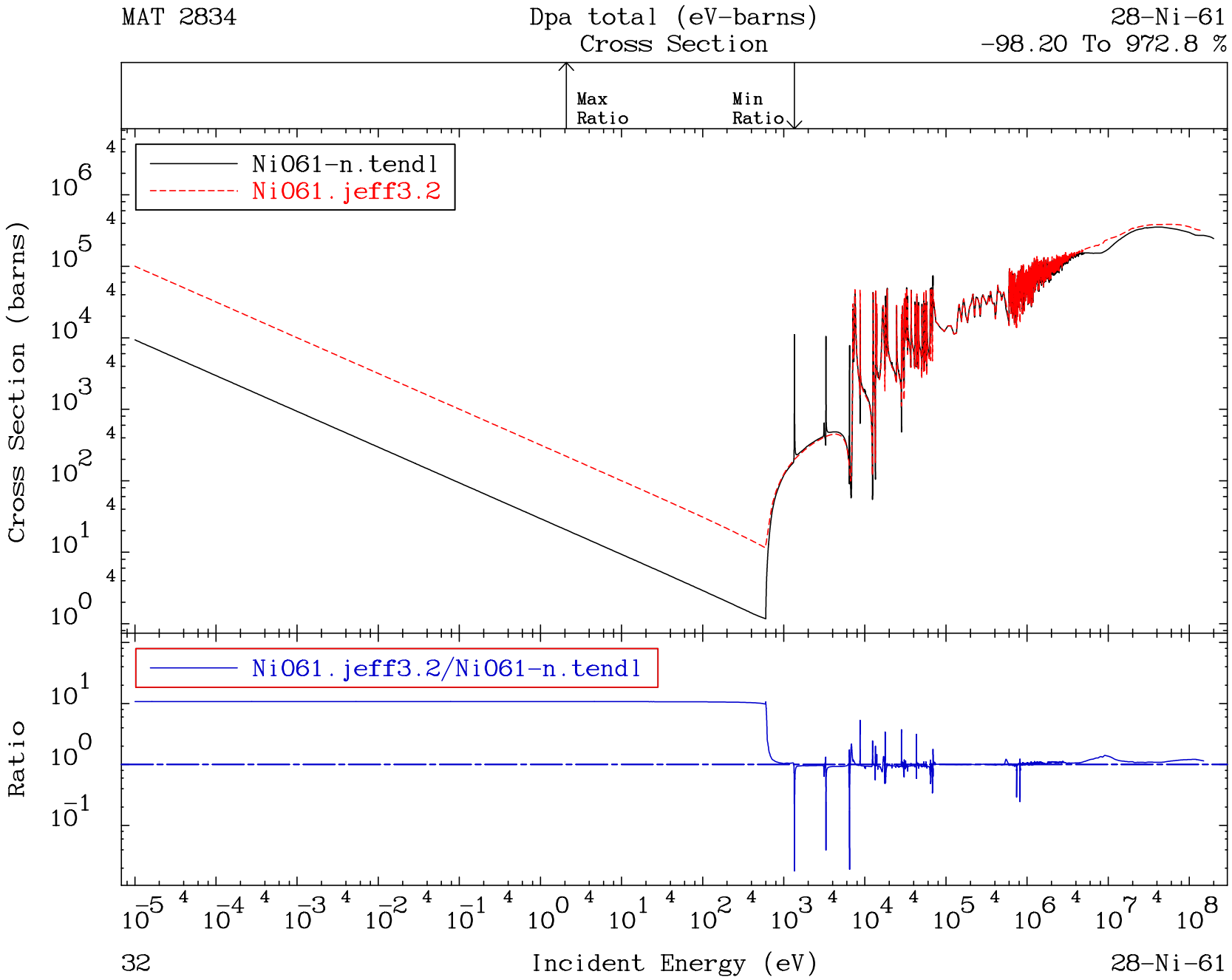

MAT 2834
Kerma inelastic (mt51-91)
Cross Section
28-Ni-61
-100.0 To 68.87 %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 69.010 keV
Ni061.jeff3.2 Threshold 70.000 keV
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
27
28-Ni-61

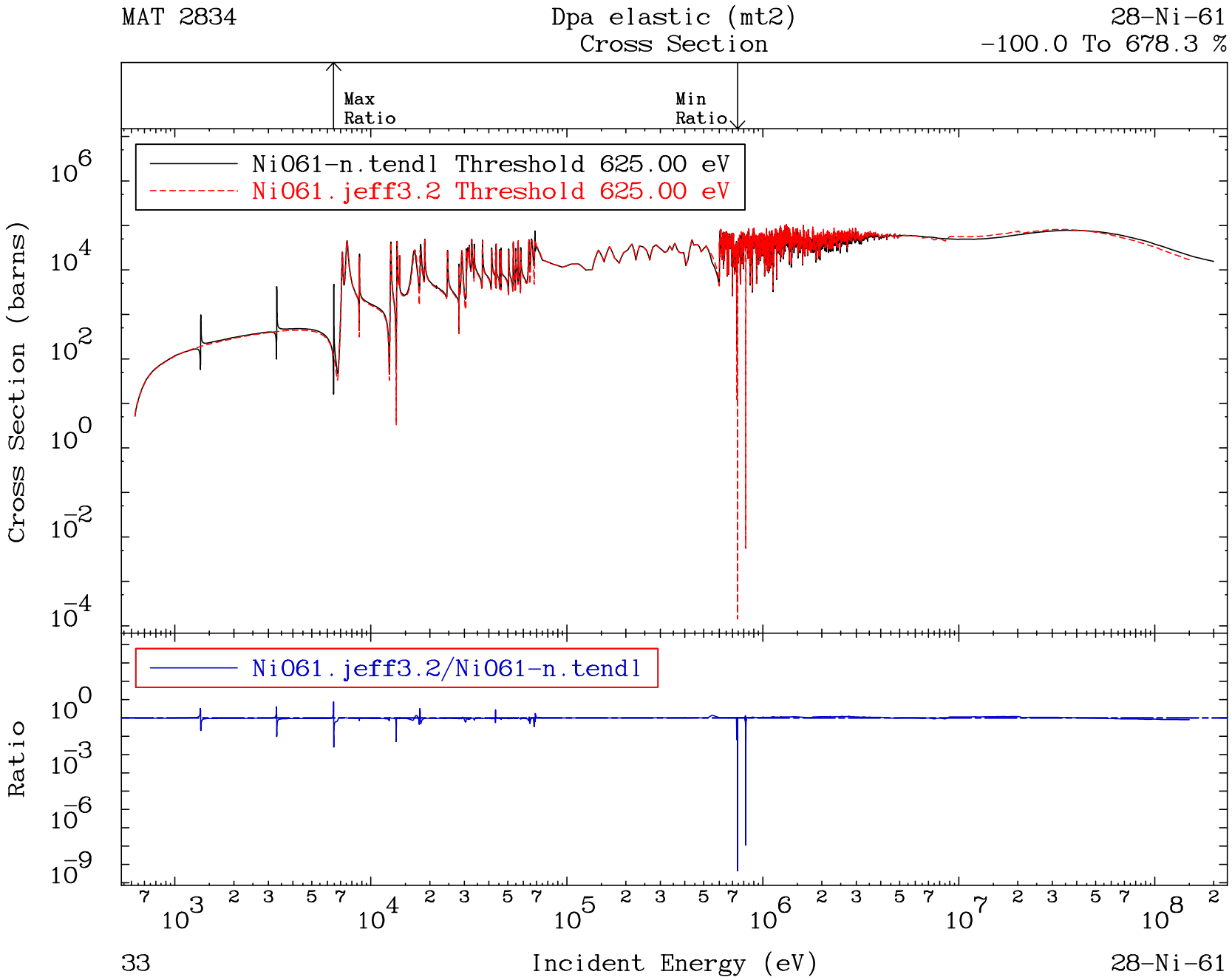

MAT 2834
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
28-Ni-61
-100.0 To 68.87 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
Ni061.jeff3.2/Ni061-n.tendl
Ratio
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
28-Ni-61

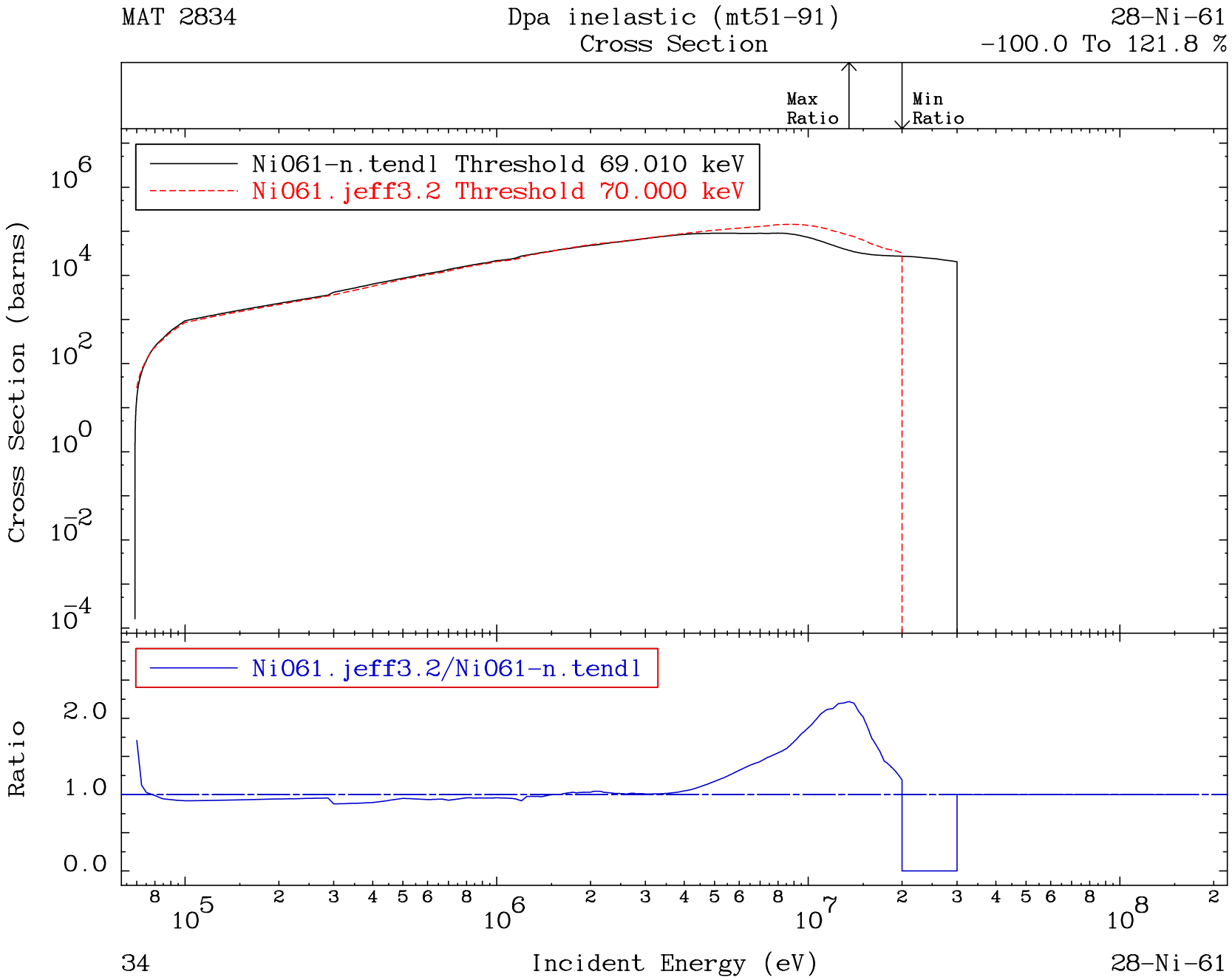

MAT 2834
Kerma capture (mt102)
Cross Section
28-Ni-61
-100.0 To 56.93 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
29
28-Ni-61

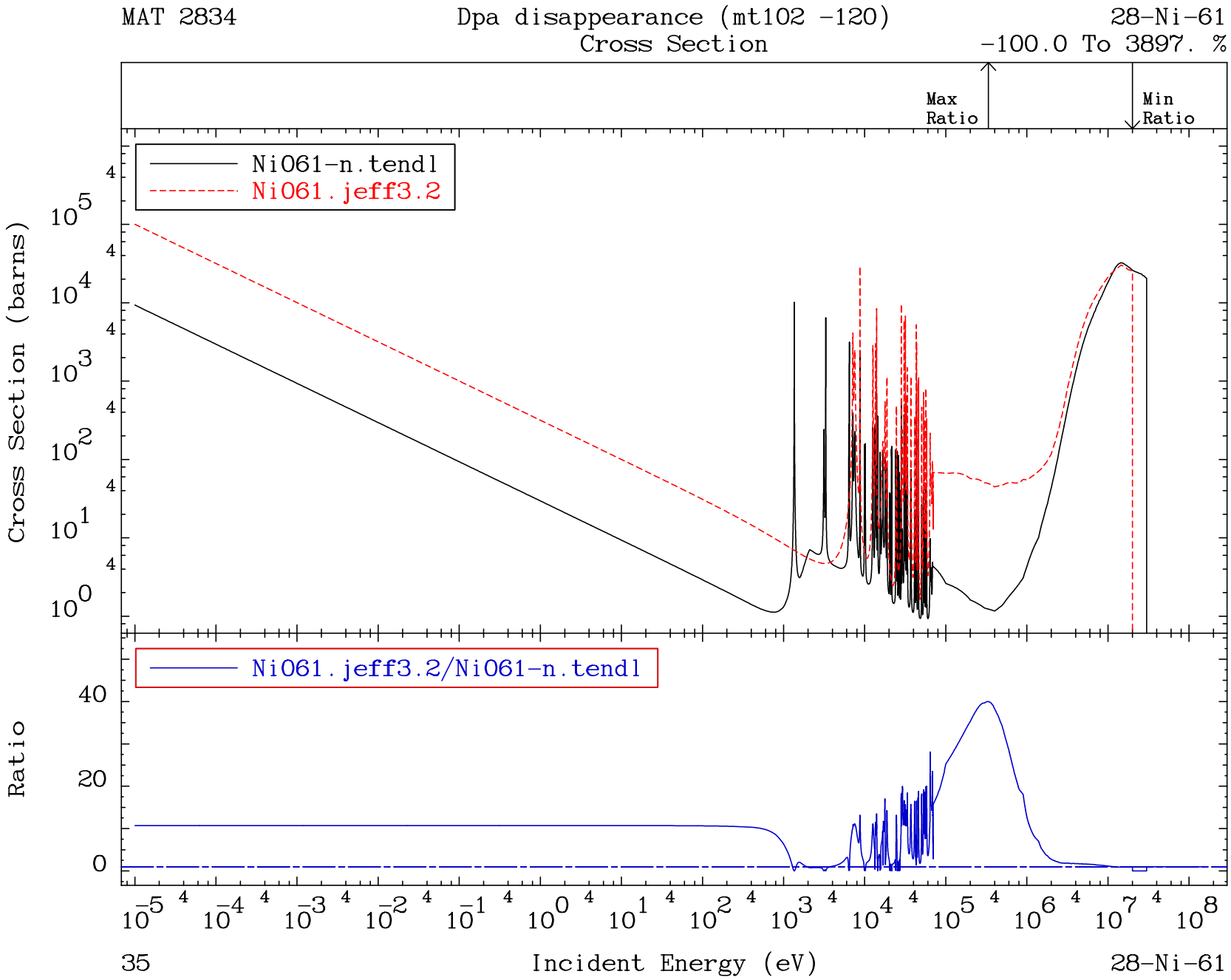

MAT 2834
Total photon (eV-barns)
Cross Section
28-Ni-61
-100.0 To 5006. %
Min Ratio
Max Ratio
Ni061-n.tendl
Ni061.jeff3.2 Threshold 100.00 keV
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
30
28-Ni-61


MAT 2834
Total kinematic kerma (high limit)
Cross Section
28-Ni-61
-100.0 To 665.1 %
Min Ratio
Max Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
31
28-Ni-61


MAT 2834
Dpa total (eV-barns)
Cross Section
28-Ni-61
-98.20 To 972.8 %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
32
28-Ni-61


MAT 2834
Dpa elastic (mt2)
Cross Section
28-Ni-61
-100.0 To 678.3 %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 625.00 eV
Ni061.jeff3.2 Threshold 625.00 eV
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
33
28-Ni-61


MAT 2834
Dpa inelastic (mt51-91)
Cross Section
28-Ni-61
-100.0 To 121.8 %
Max Ratio
Min Ratio
Ni061-n.tendl Threshold 69.010 keV
Ni061.jeff3.2 Threshold 70.000 keV
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
34
28-Ni-61


MAT 2834
Dpa disappearance (mt102 -120)
Cross Section
28-Ni-61
-100.0 To 3897. %
Max Ratio
Min Ratio
Ni061-n.tendl
Ni061.jeff3.2
Cross Section (barns)
Ni061.jeff3.2/Ni061-n.tendl
Ratio
Incident Energy (eV)
35
28-Ni-61