Program Complot
(Version 2021-1)
by
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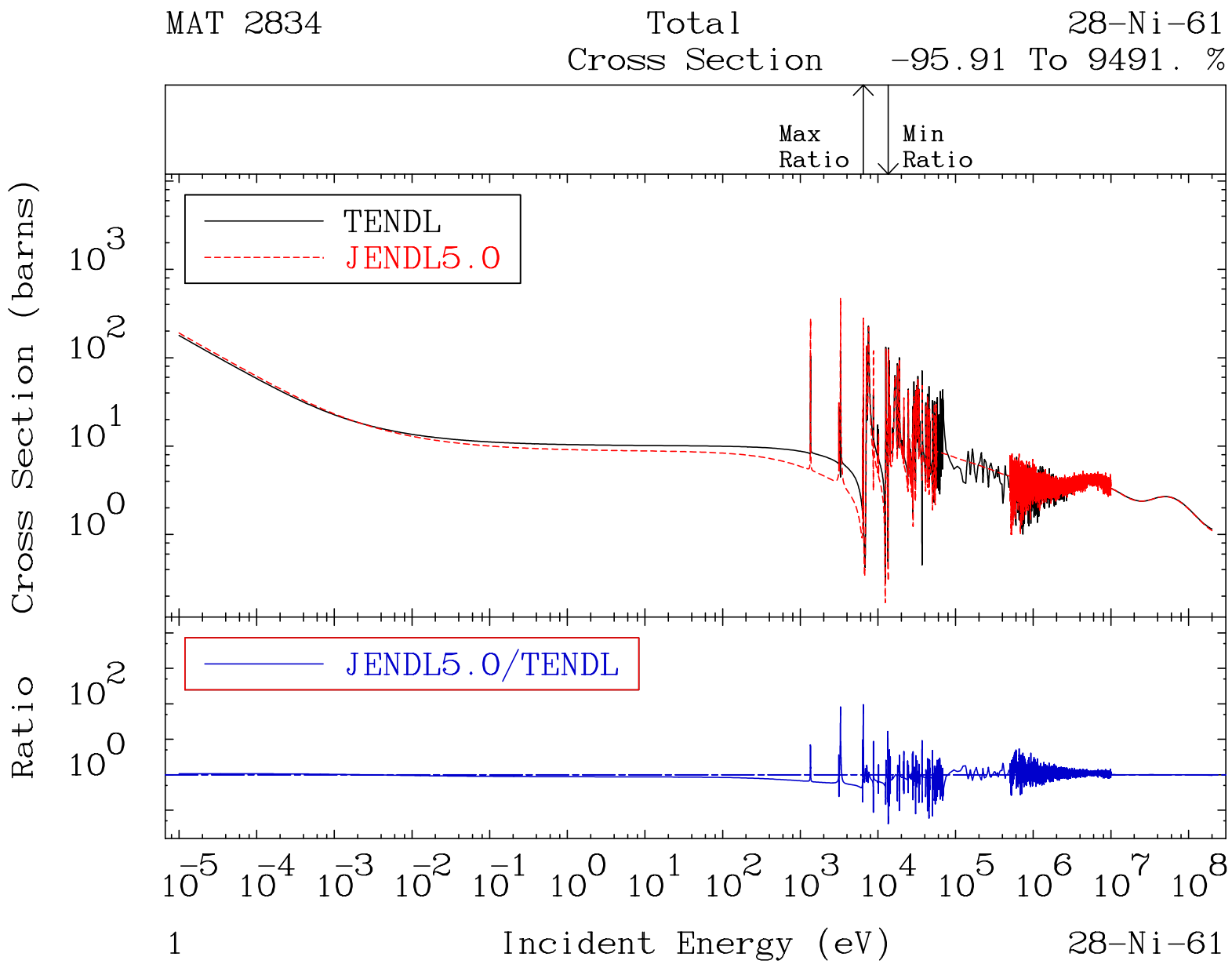
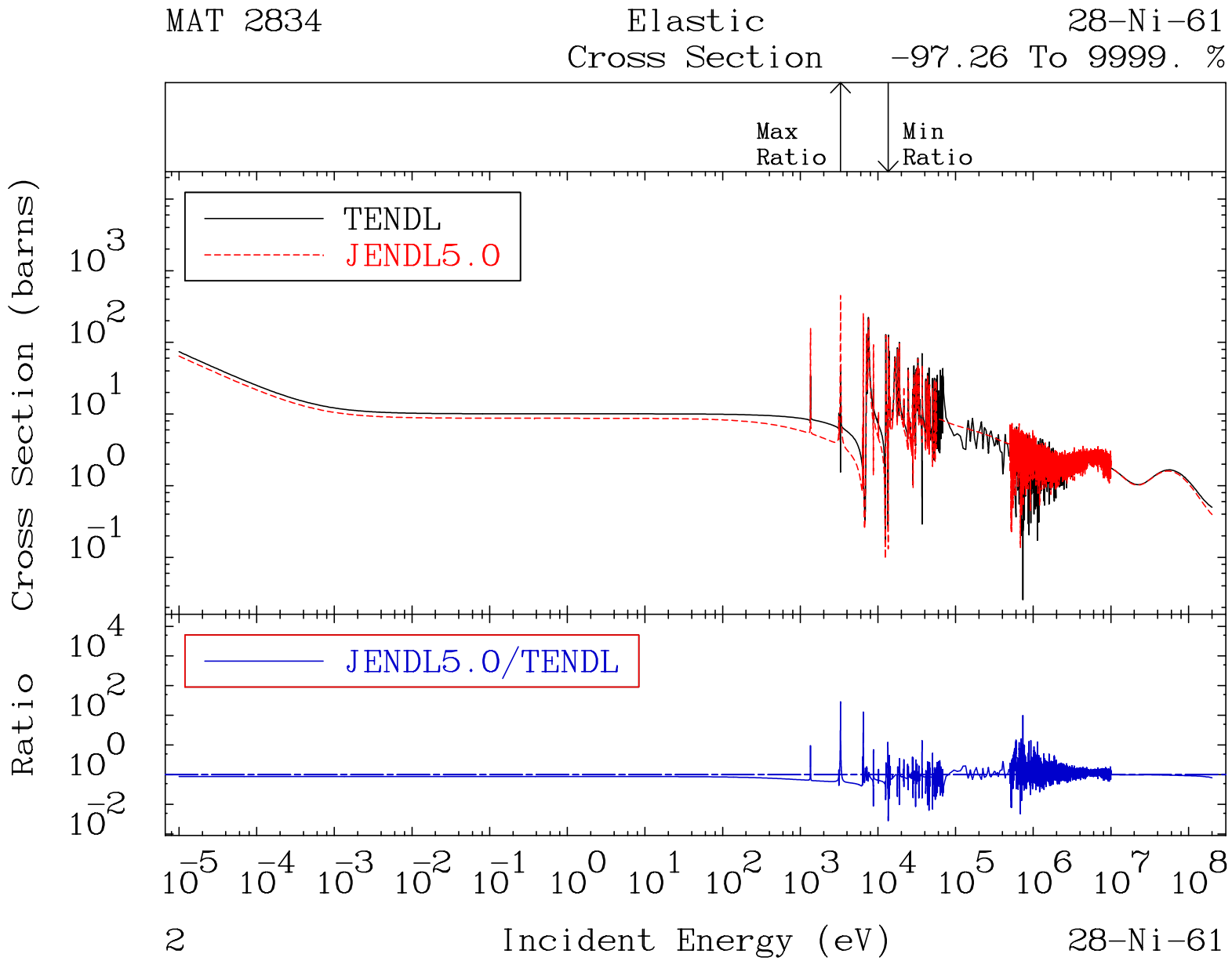
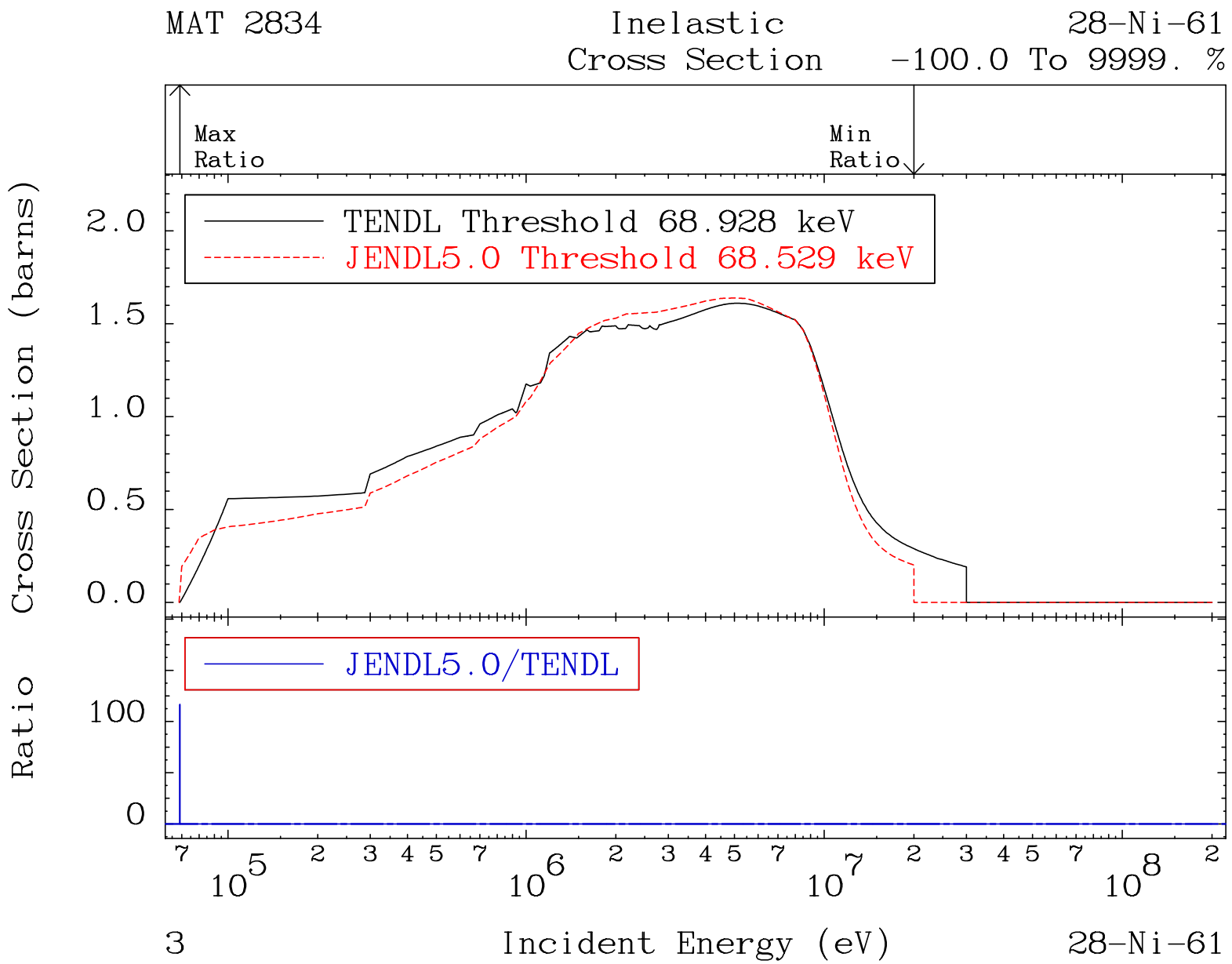
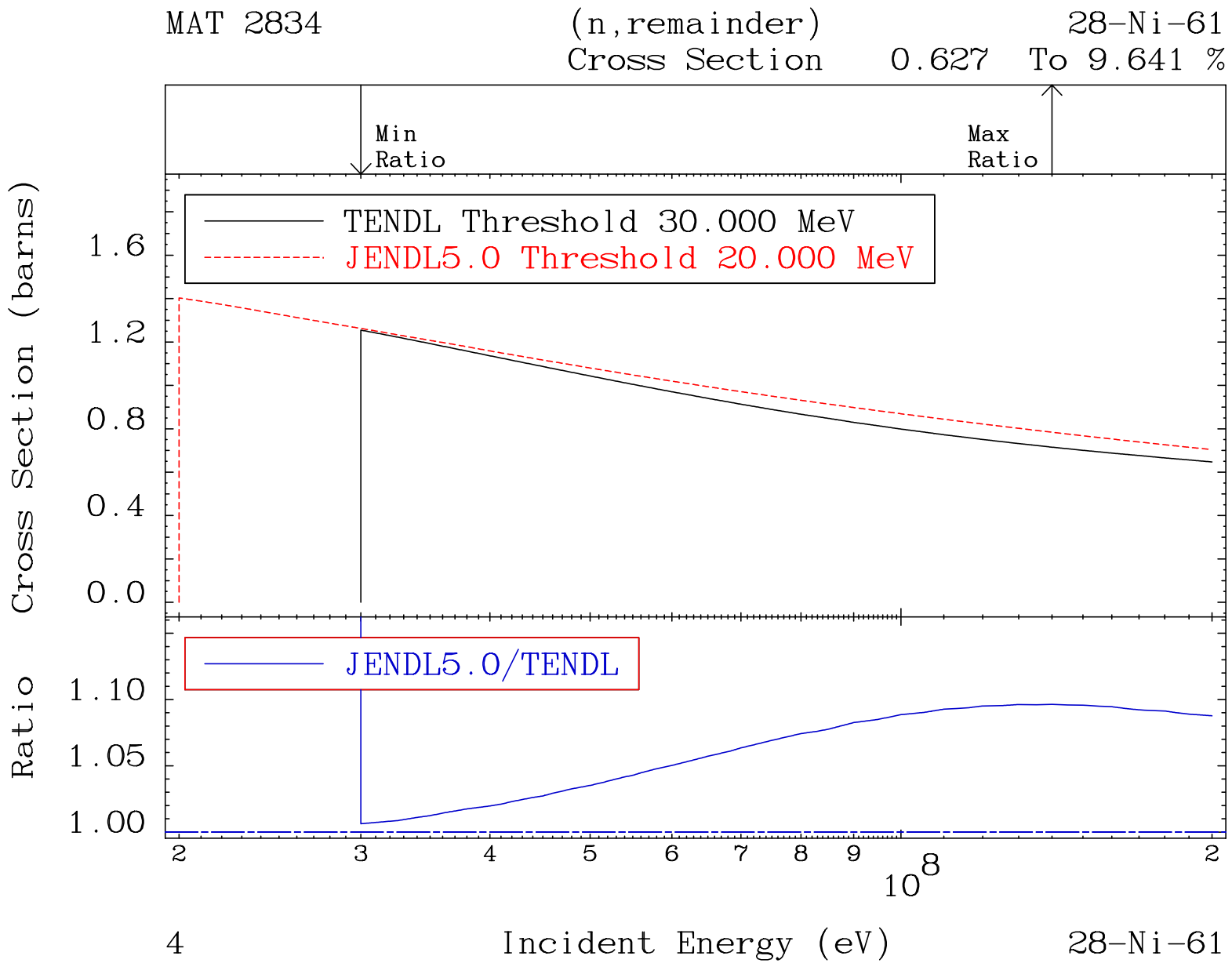
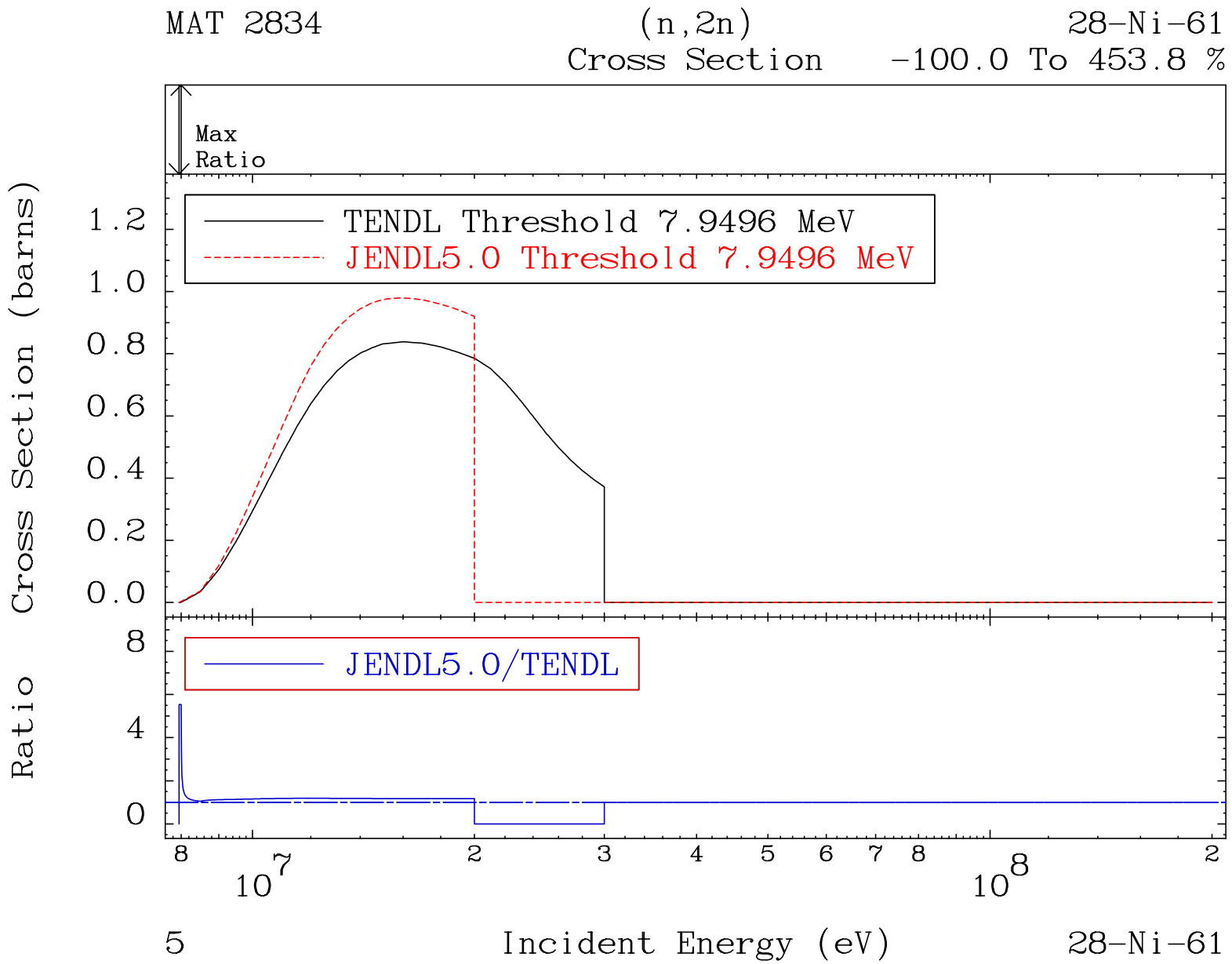
Press Mouse Button to Start

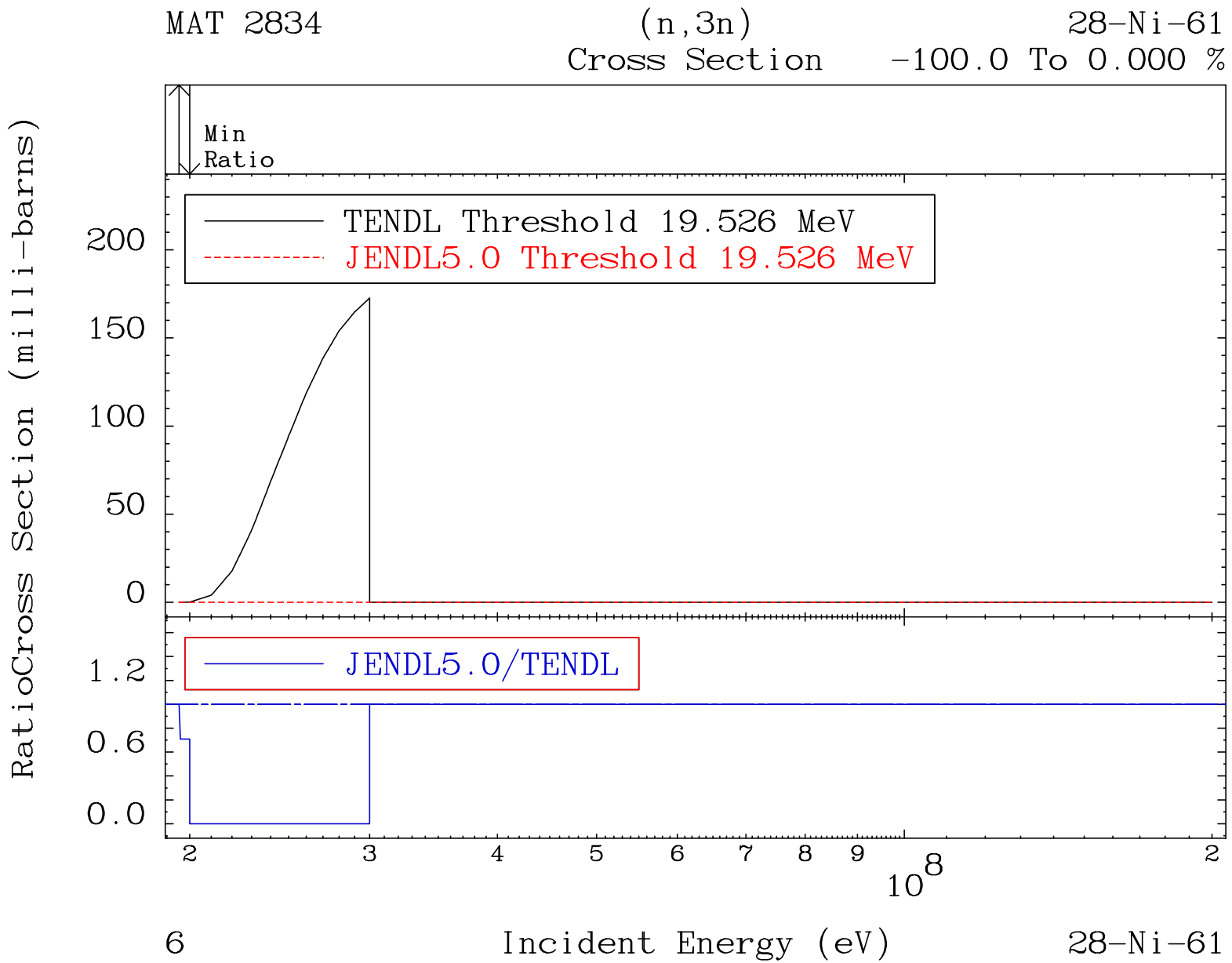

MAT 2834
Total
Cross Section
28-Ni-61
-95.91 To 9491. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
28-Ni-61
1

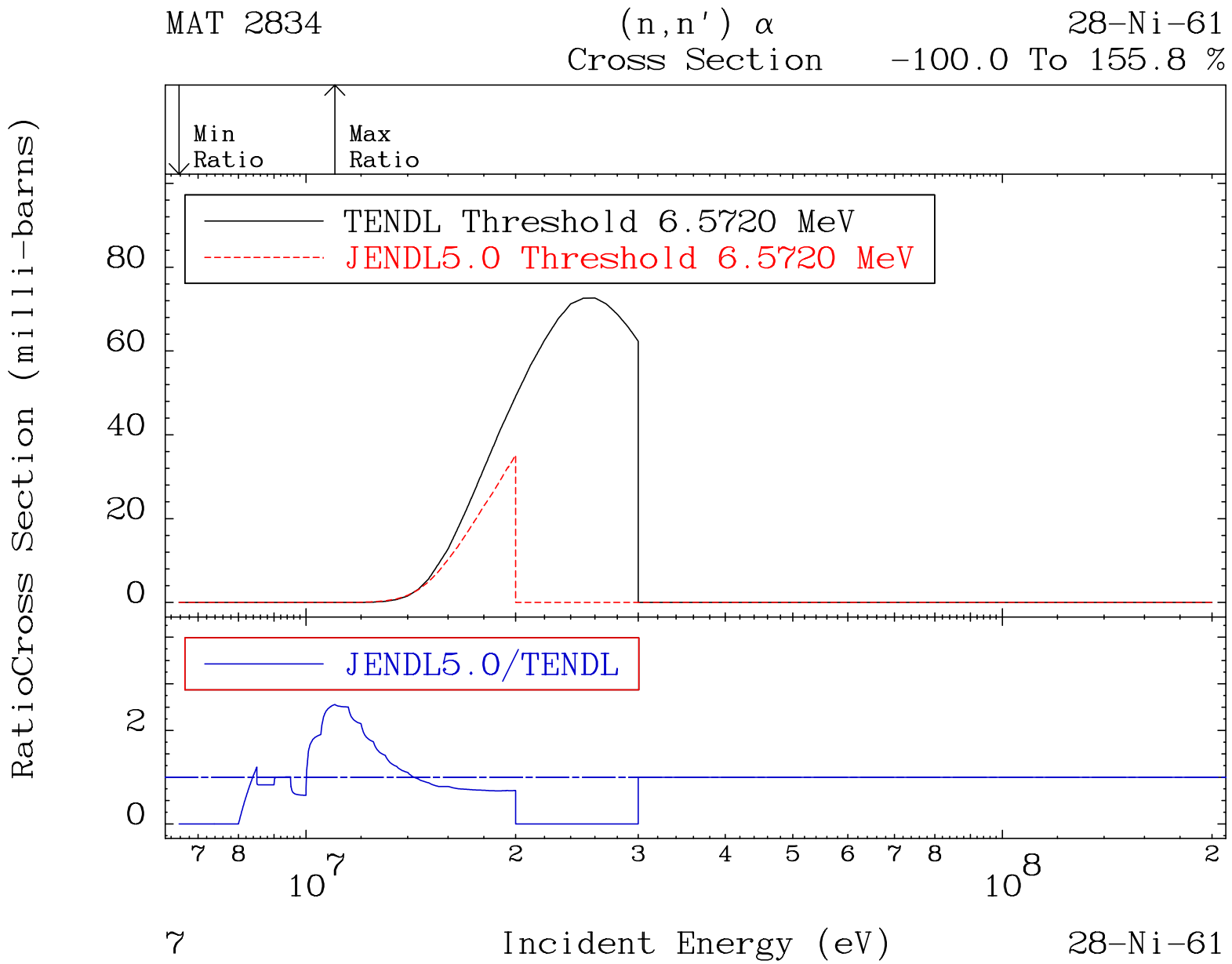

MAT 2834
Elastic
Cross Section
28-Ni-61
-97.26 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
28-Ni-61

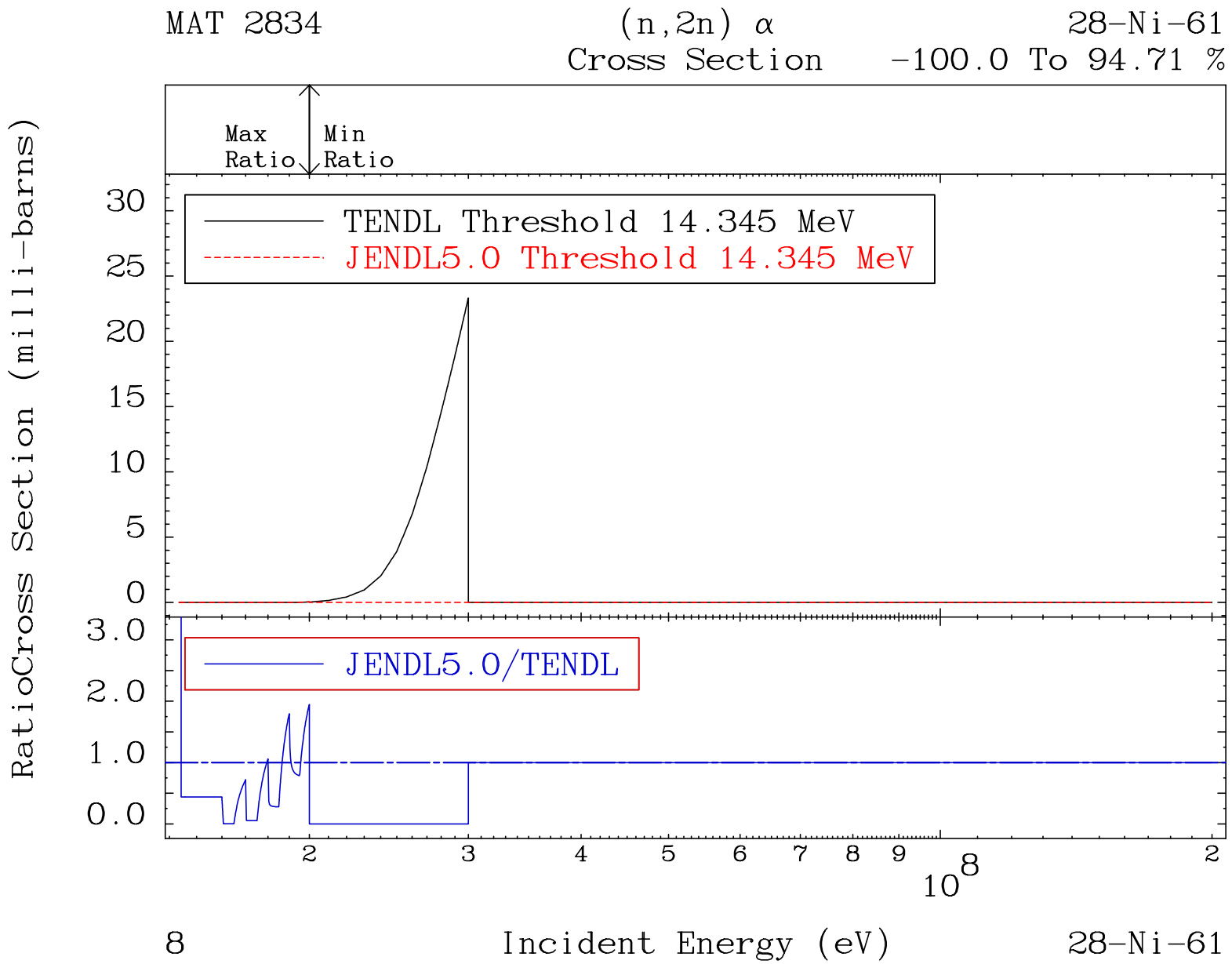

MAT 2834
Inelastic
Cross Section
28-Ni-61
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 68.928 keV
JENDL5.0 Threshold 68.529 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
100
0
7
2
3
4
5
7
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
28-Ni-61

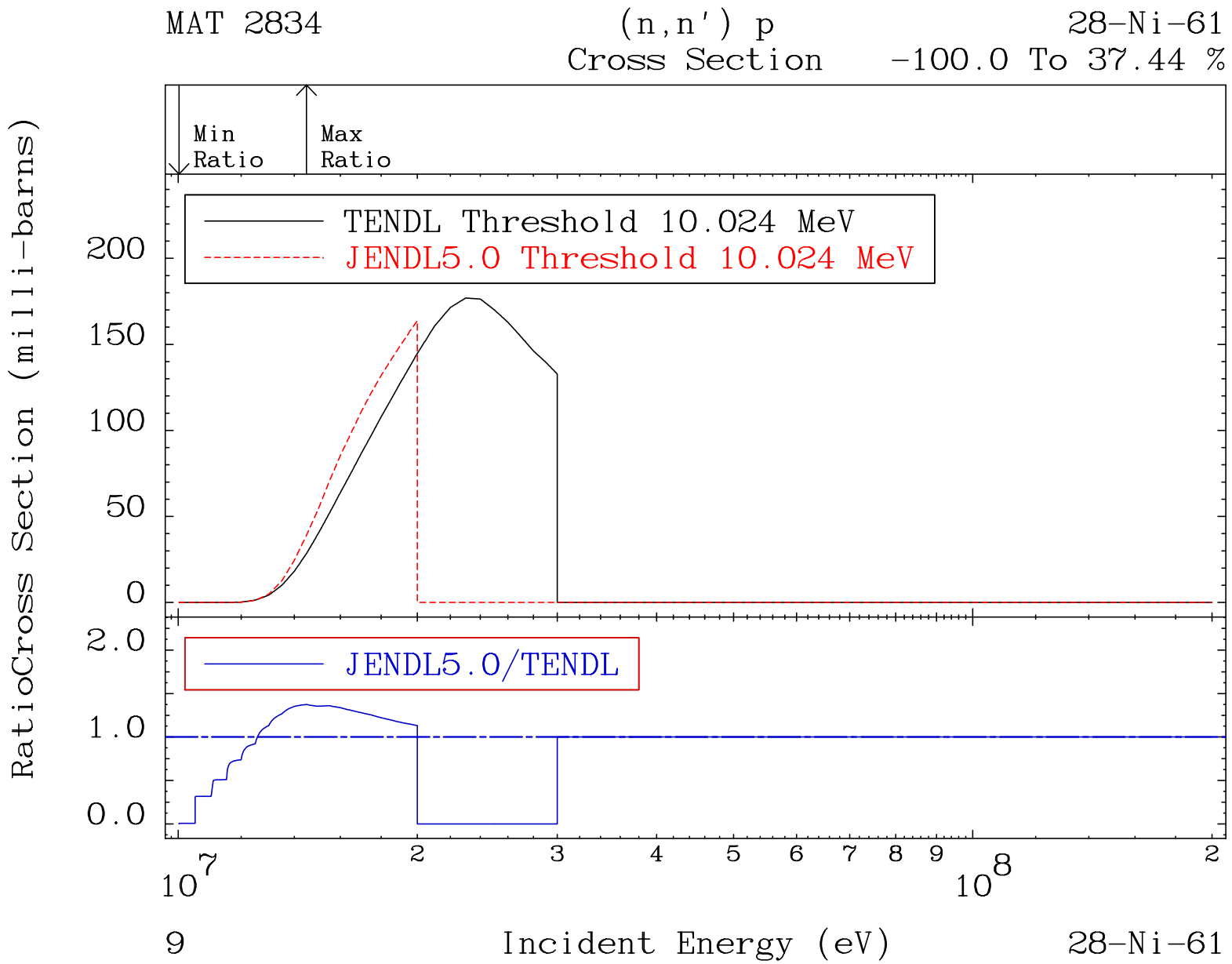

MAT 2834
(n,remainder)
28-Ni-61
Cross Section 0.627 To 9.641 %
Min Ratio
Max Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
28-Ni-61

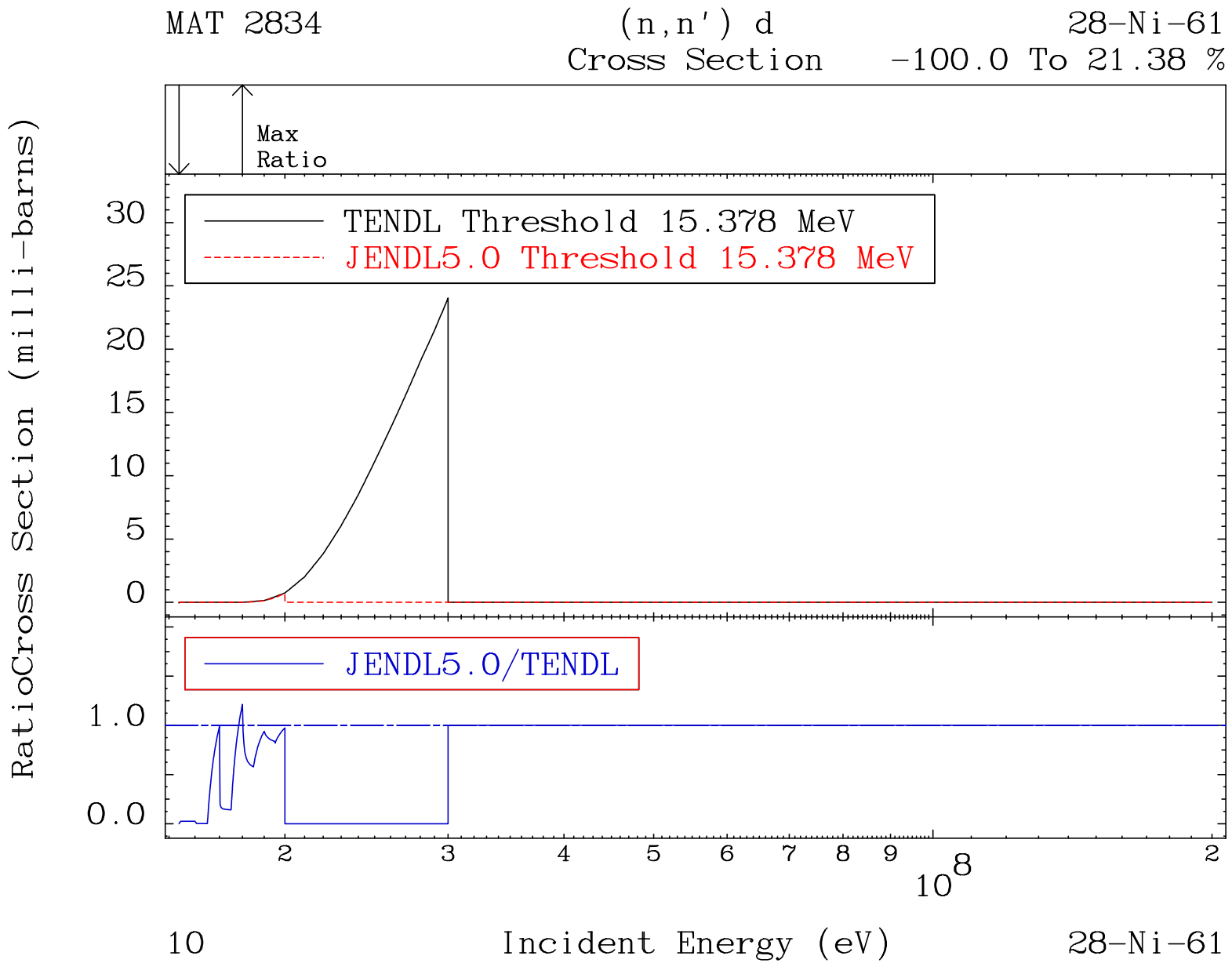

MAT 2834
(n,2n)
Cross Section
28-Ni-61
-100.0 To 453.8 %
Max
Ratio
TENDL Threshold 7.9496 MeV
JENDL5.0 Threshold 7.9496 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
8
2
3
4
5
6
7
8
10^7
10^8
2
5
Incident Energy (eV)
28-Ni-61

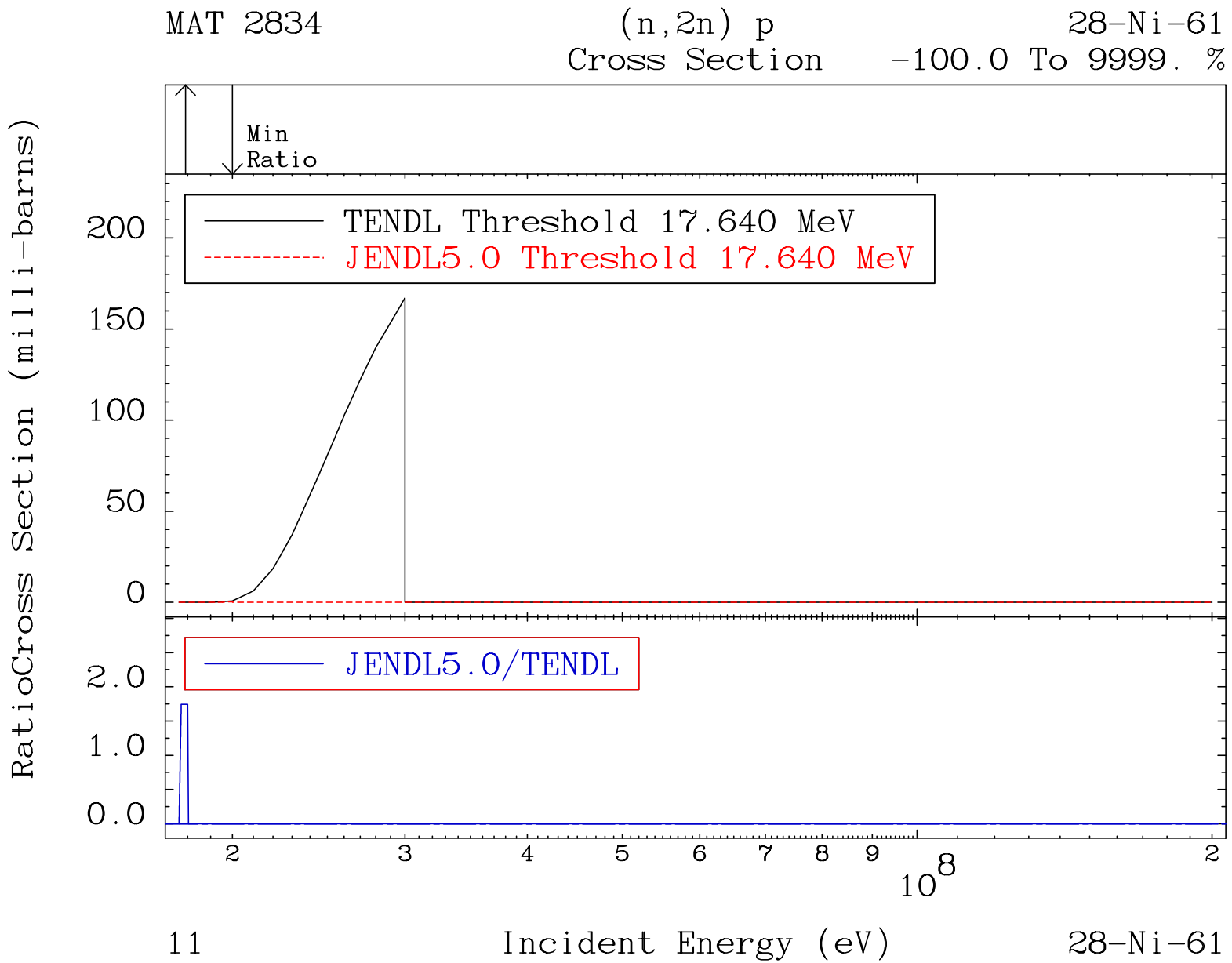

MAT 2834
(n,3n)
Cross Section
28-Ni-61
-100.0 To 0.000 %
Min
Ratio
TENDL Threshold 19.526 MeV
JENDL5.0 Threshold 19.526 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
28-Ni-61

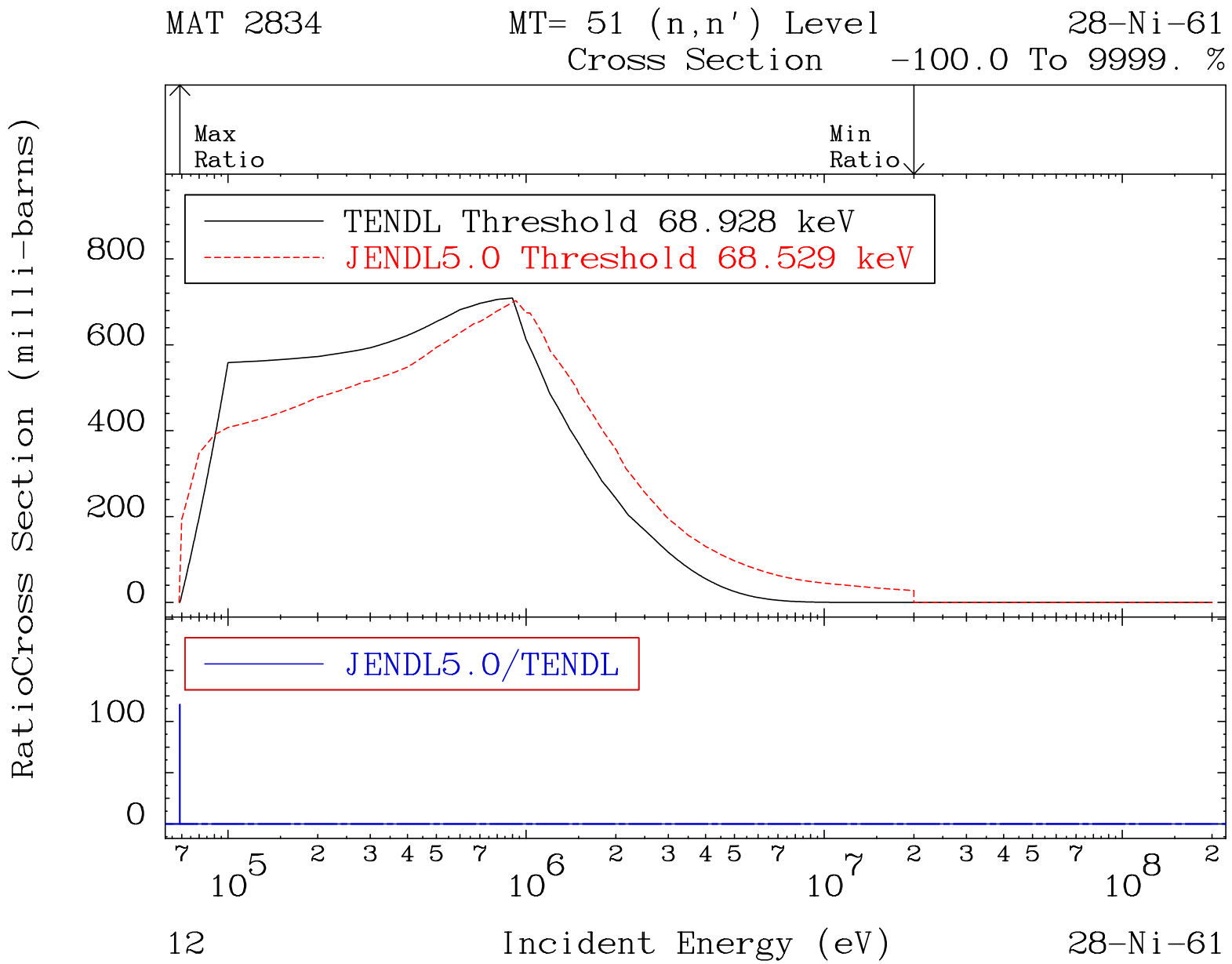

MAT 2834
(n,n') α
Cross Section
28-Ni-61
-100.0 To 155.8 %
Min Ratio
Max Ratio
TENDL Threshold 6.5720 MeV
JENDL5.0 Threshold 6.5720 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28-Ni-61

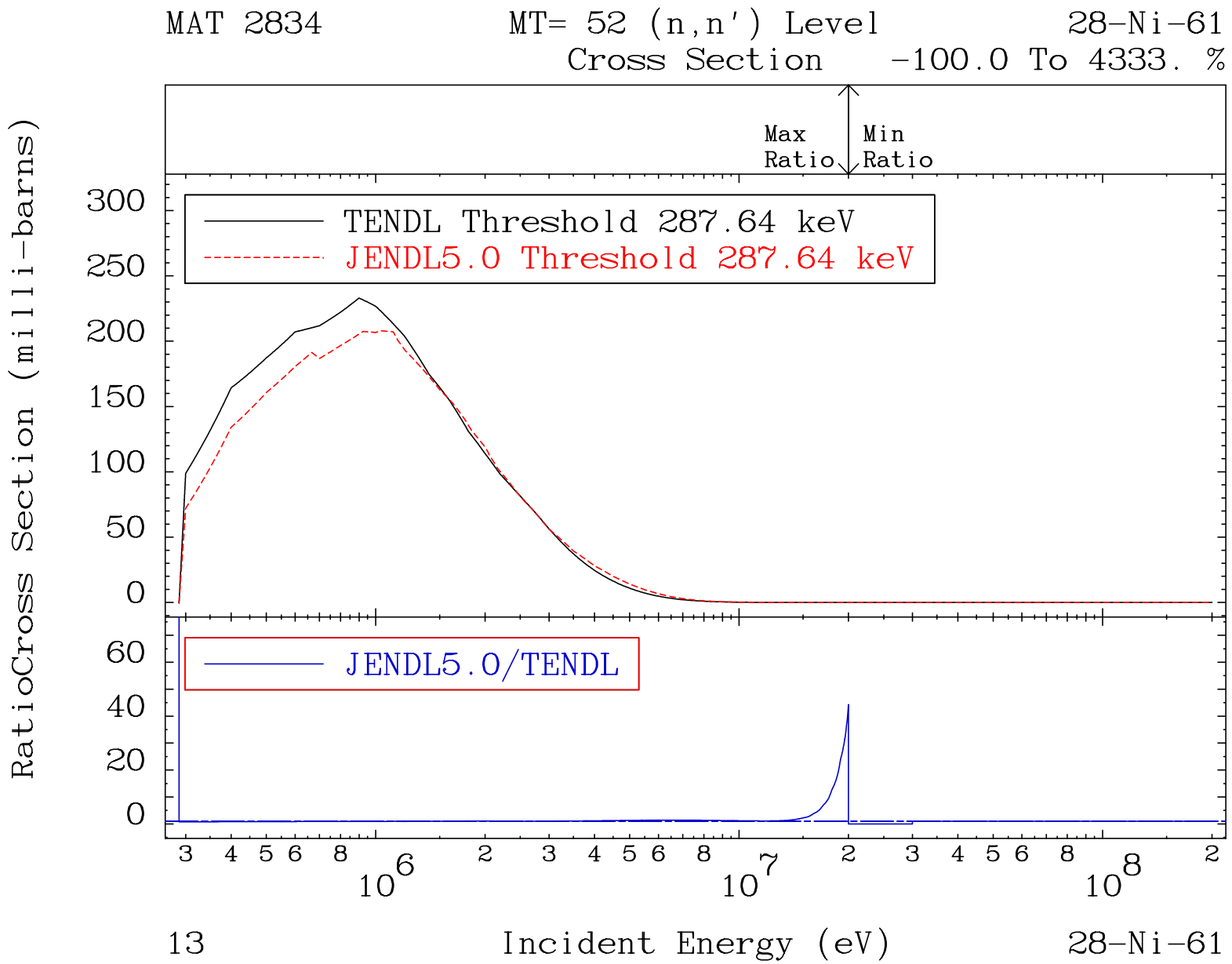

MAT 2834
(n,2n) α
Cross Section
28-Ni-61
-100.0 To 94.71 %
Max Ratio
Min Ratio
TENDL Threshold 14.345 MeV
JENDL5.0 Threshold 14.345 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
28-Ni-61

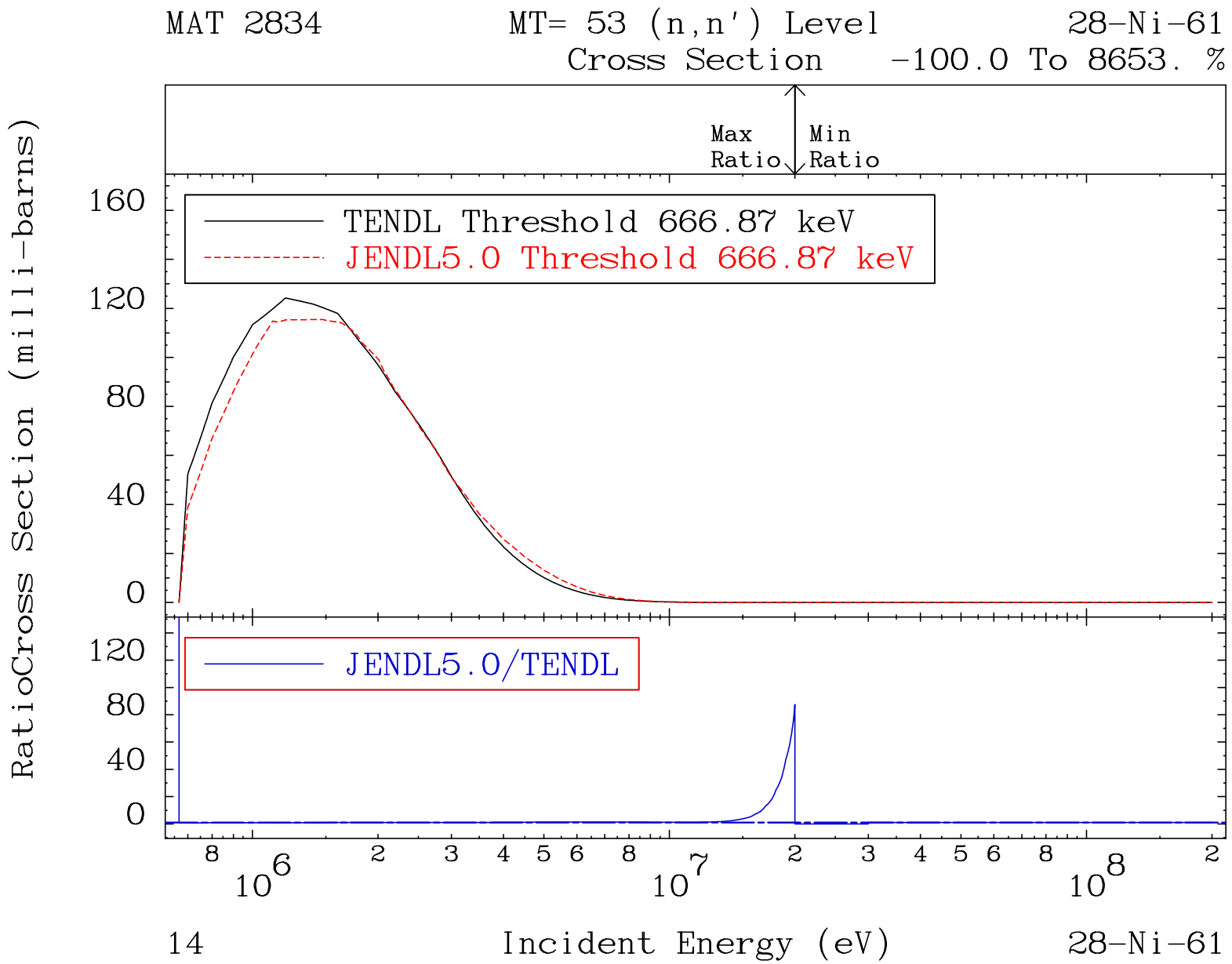

MAT 2834
(n,n') p
Cross Section
28-Ni-61
-100.0 To 37.44 %
Min Ratio
Max Ratio
TENDL Threshold 10.024 MeV
JENDL5.0 Threshold 10.024 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
28-Ni-61

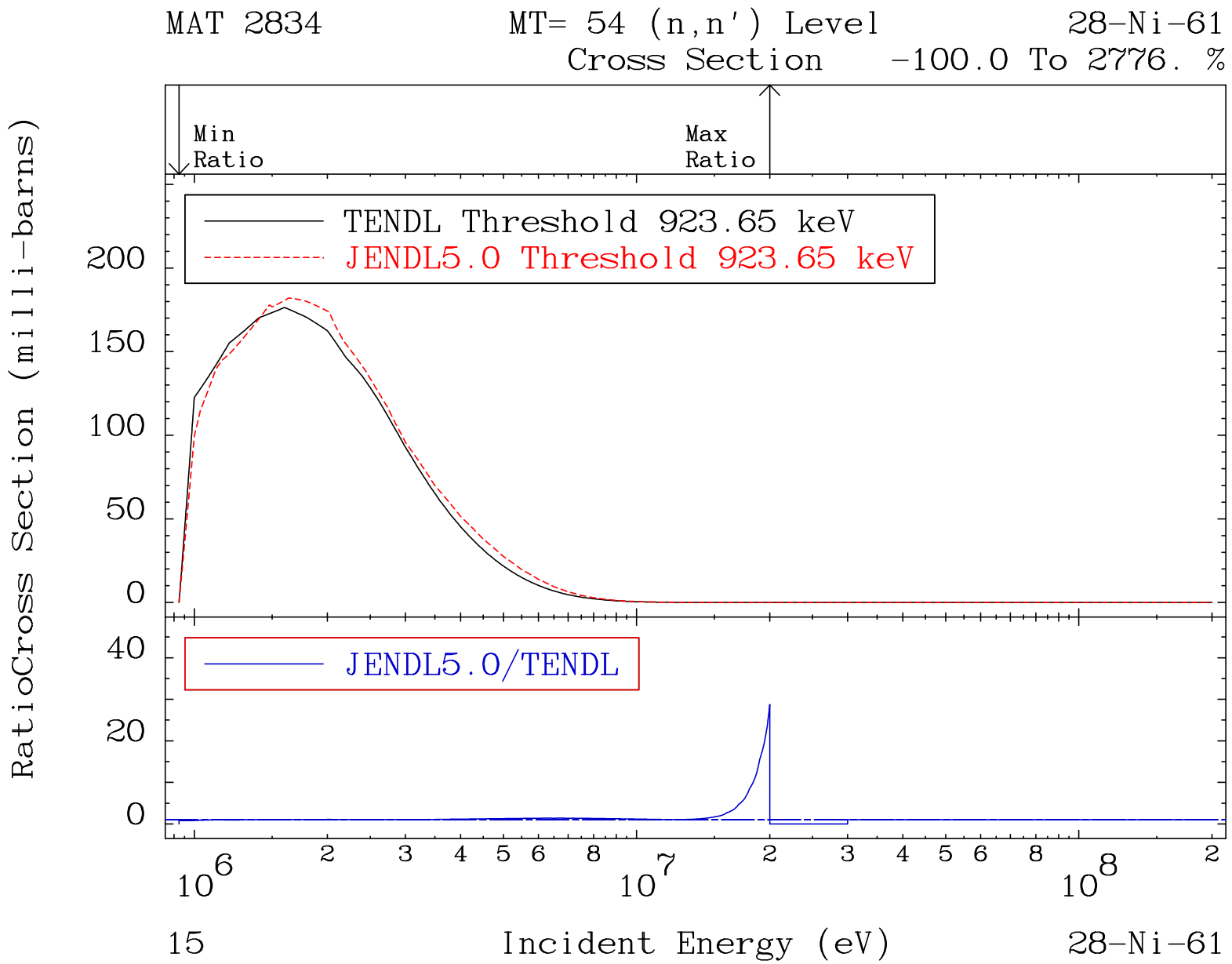

MAT 2834
(n,n') d
Cross Section
28-Ni-61
-100.0 To 21.38 %
Max
Ratio
TENDL Threshold 15.378 MeV
JENDL5.0 Threshold 15.378 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
28-Ni-61

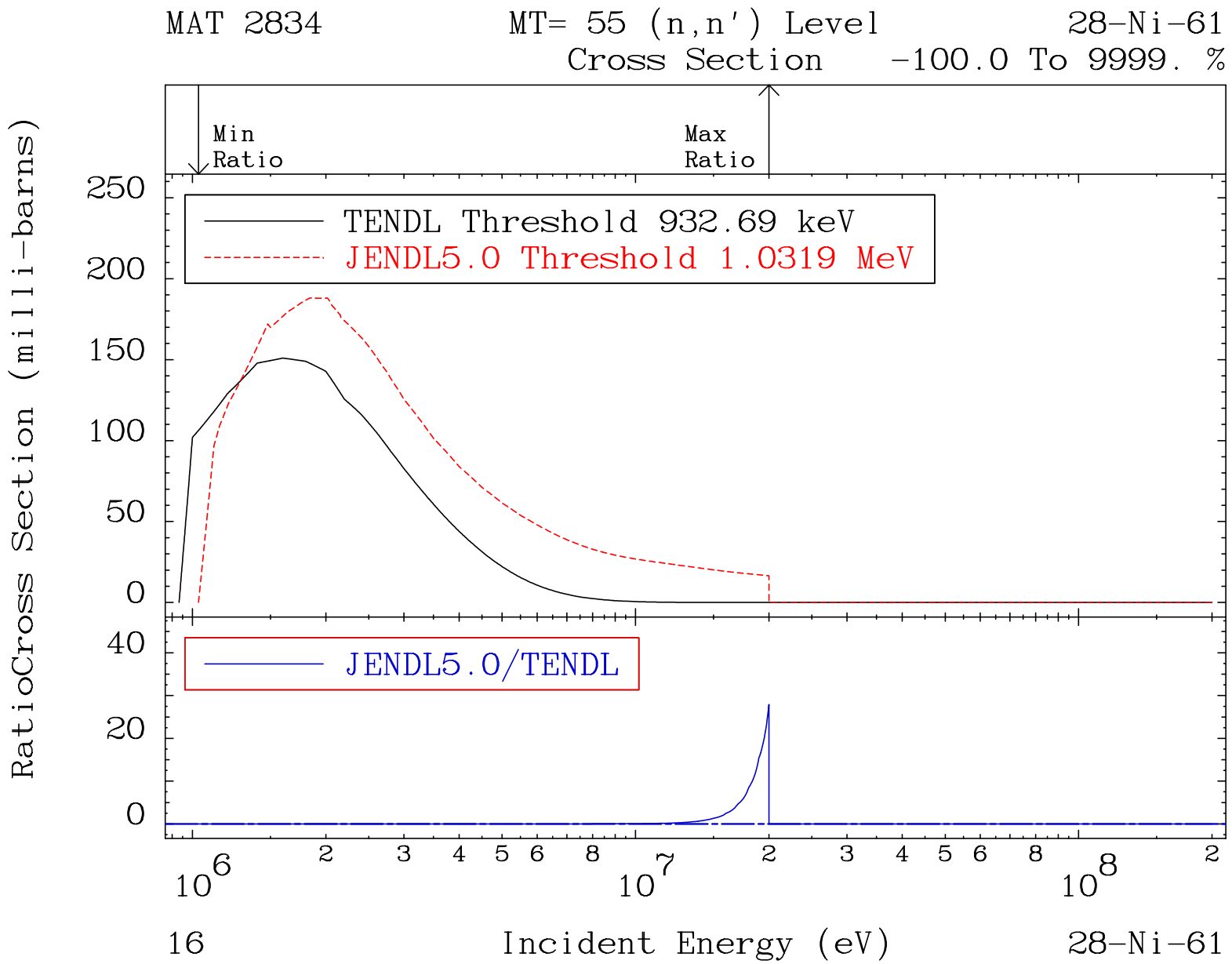

MAT 2834
(n,2n) p
28-Ni-61
Cross Section
-100.0 To 9999. %
Min
Ratio
TENDL Threshold 17.640 MeV
JENDL5.0 Threshold 17.640 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
11
Incident Energy (eV)
28-Ni-61

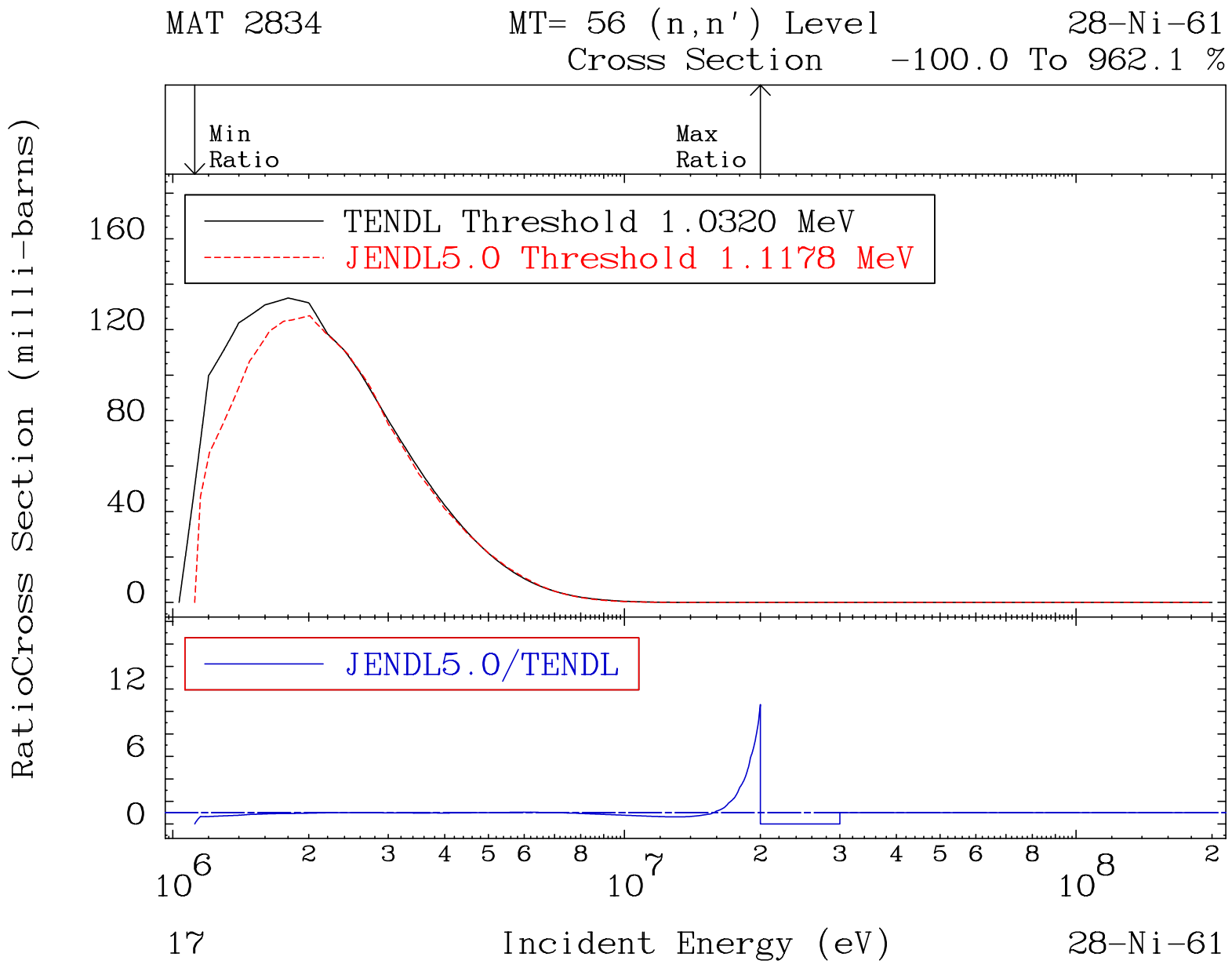

MAT 2834
MT= 51 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 68.928 keV
JENDL5.0 Threshold 68.529 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
100
0
7 2 3 4 5 7 2 3 4 5 7 2 3 4 5 7 2
10^5 10^6 10^7 10^8
12
Incident Energy (eV)
28-Ni-61

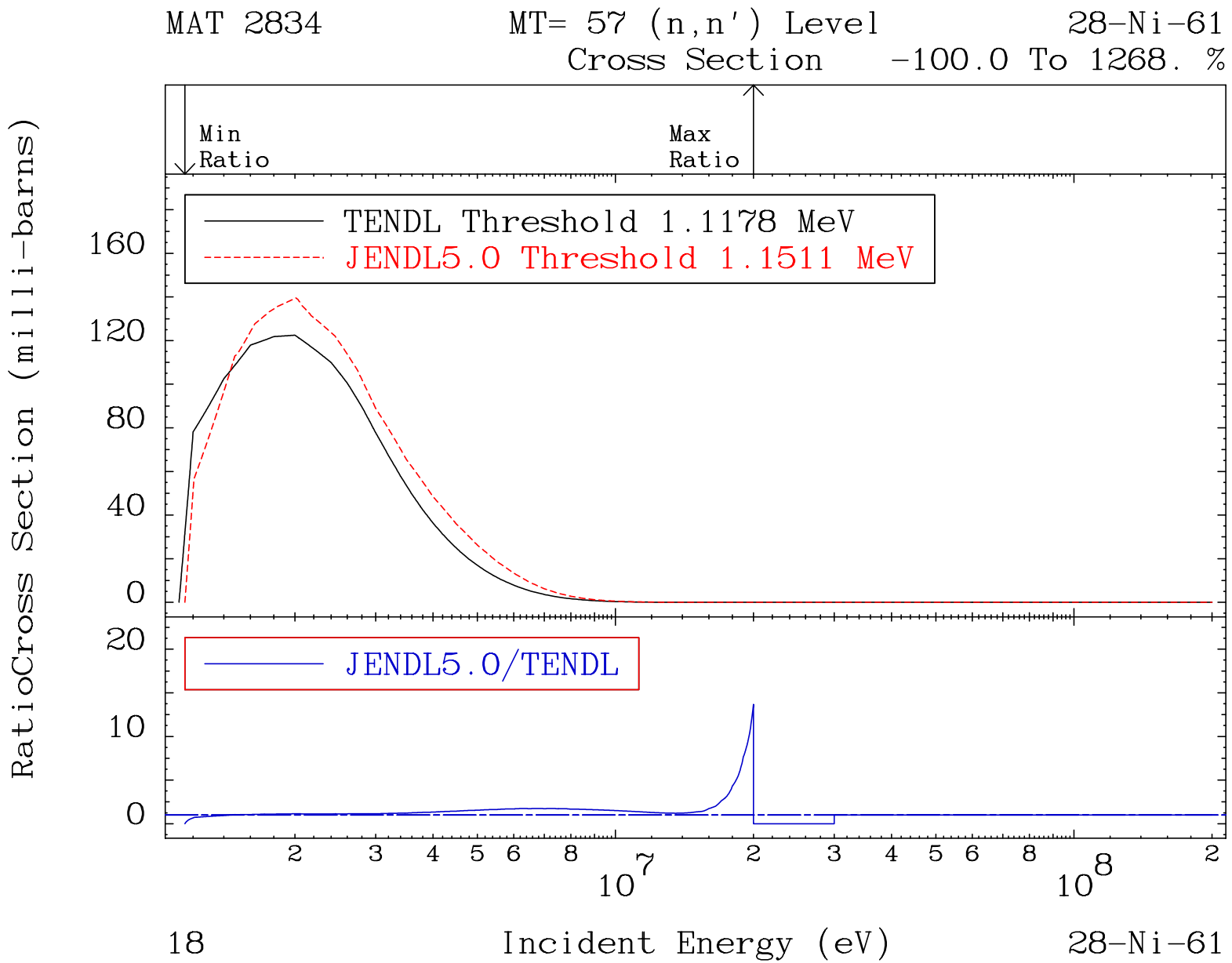

MAT 2834
MT= 52 (n,n') Level
28-Ni-61
Cross Section -100.0 To 4333. %
Max Ratio
Min Ratio
TENDL Threshold 287.64 keV
JENDL5.0 Threshold 287.64 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
60
40
20
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
28-Ni-61

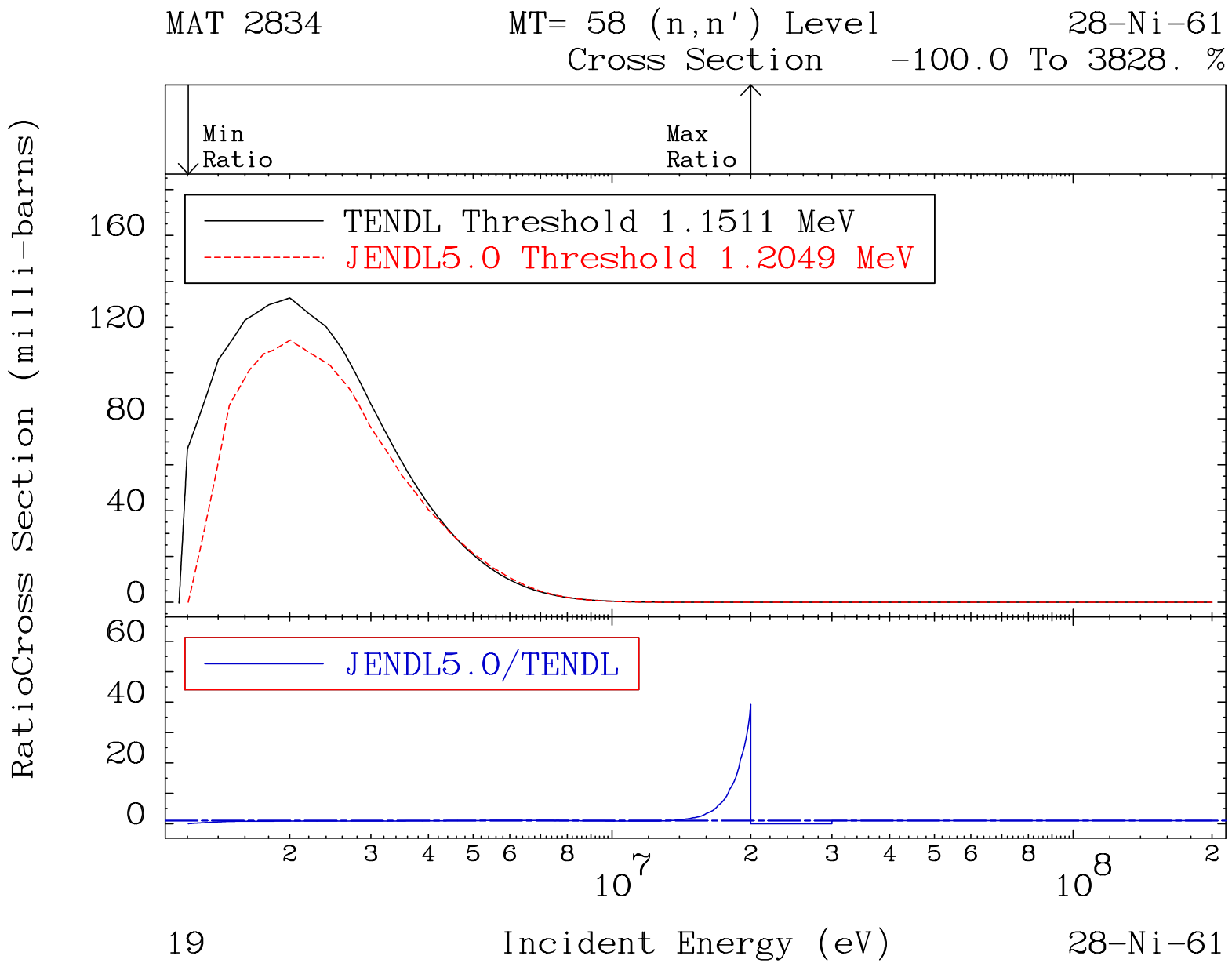

MAT 2834
MT= 53 (n,n') Level
28-Ni-61
Cross Section -100.0 To 8653. %
Max Ratio
Min Ratio
TENDL Threshold 666.87 keV
JENDL5.0 Threshold 666.87 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
120
80
40
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
14
Incident Energy (eV)
28-Ni-61

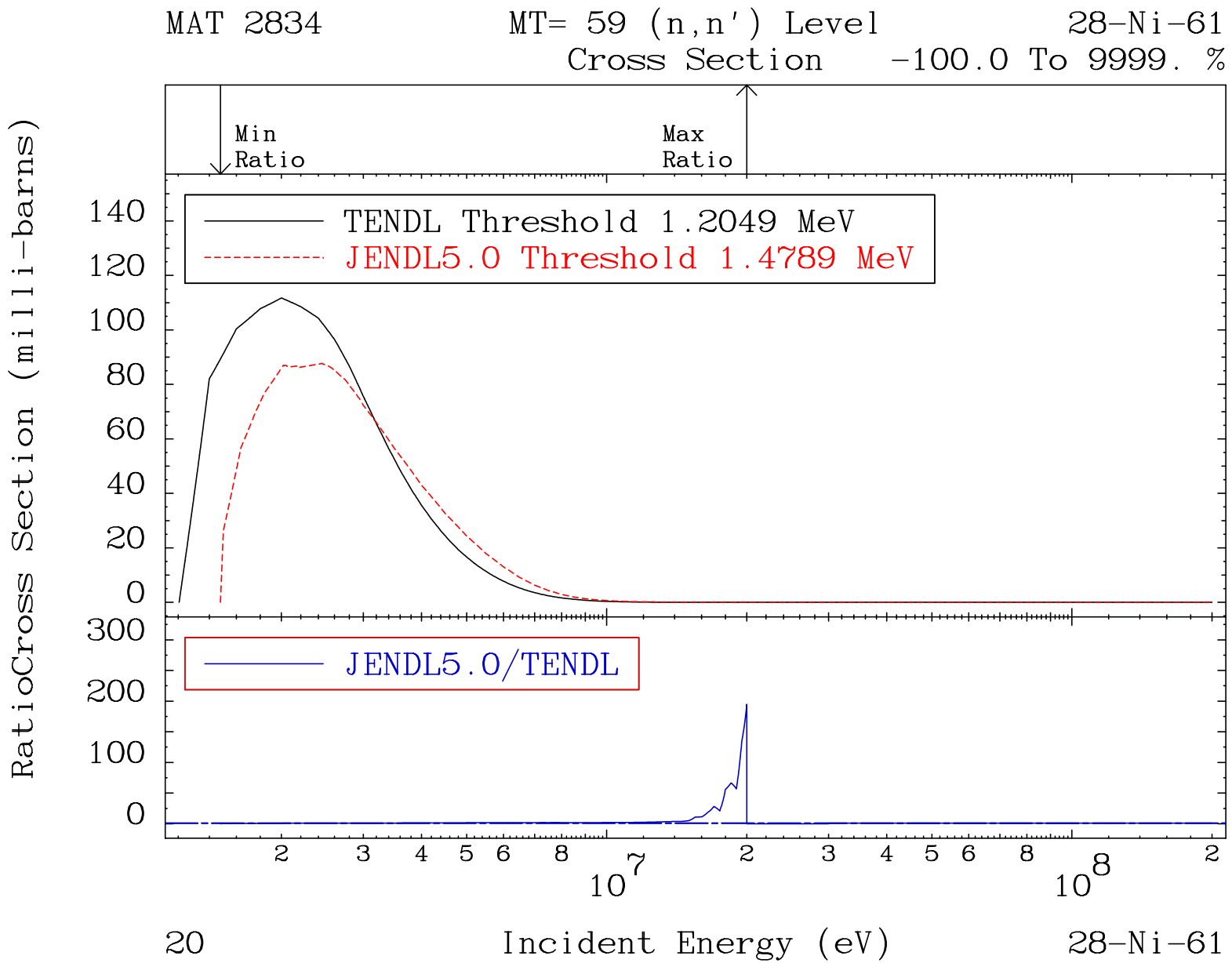

MAT 2834
MT= 54 (n,n') Level
28-Ni-61
Cross Section -100.0 To 2776. %
Min Ratio
Max Ratio
TENDL Threshold 923.65 keV
JENDL5.0 Threshold 923.65 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
40
20
0
10^6
10^7
10^8
2 3 4 5 6 8
Incident Energy (eV)
15
28-Ni-61

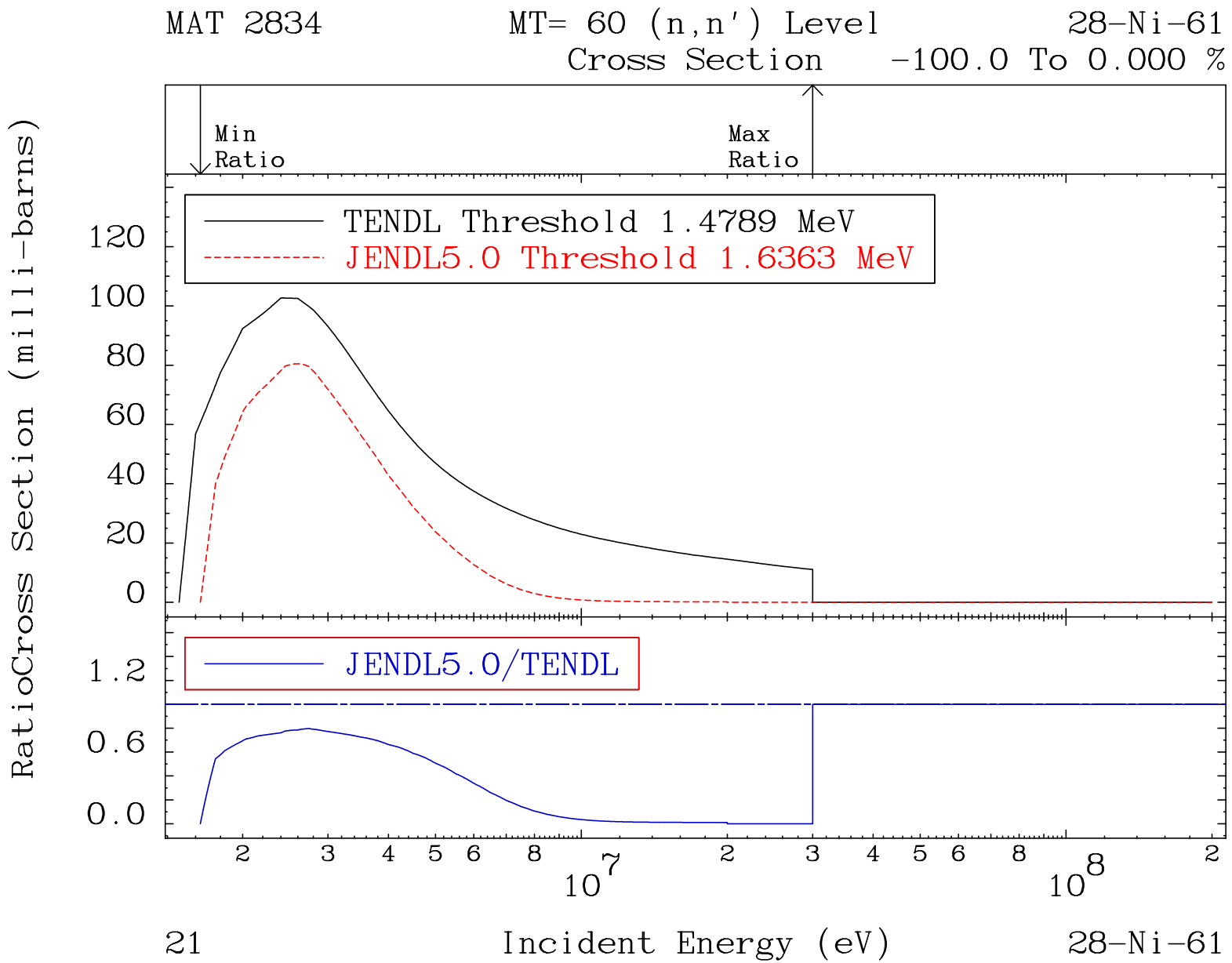

MAT 2834
MT= 55 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 932.69 keV
JENDL5.0 Threshold 1.0319 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
40
20
0
10^6
10^7
10^8
2 3 4 5 6 8
Incident Energy (eV)
16
28-Ni-61

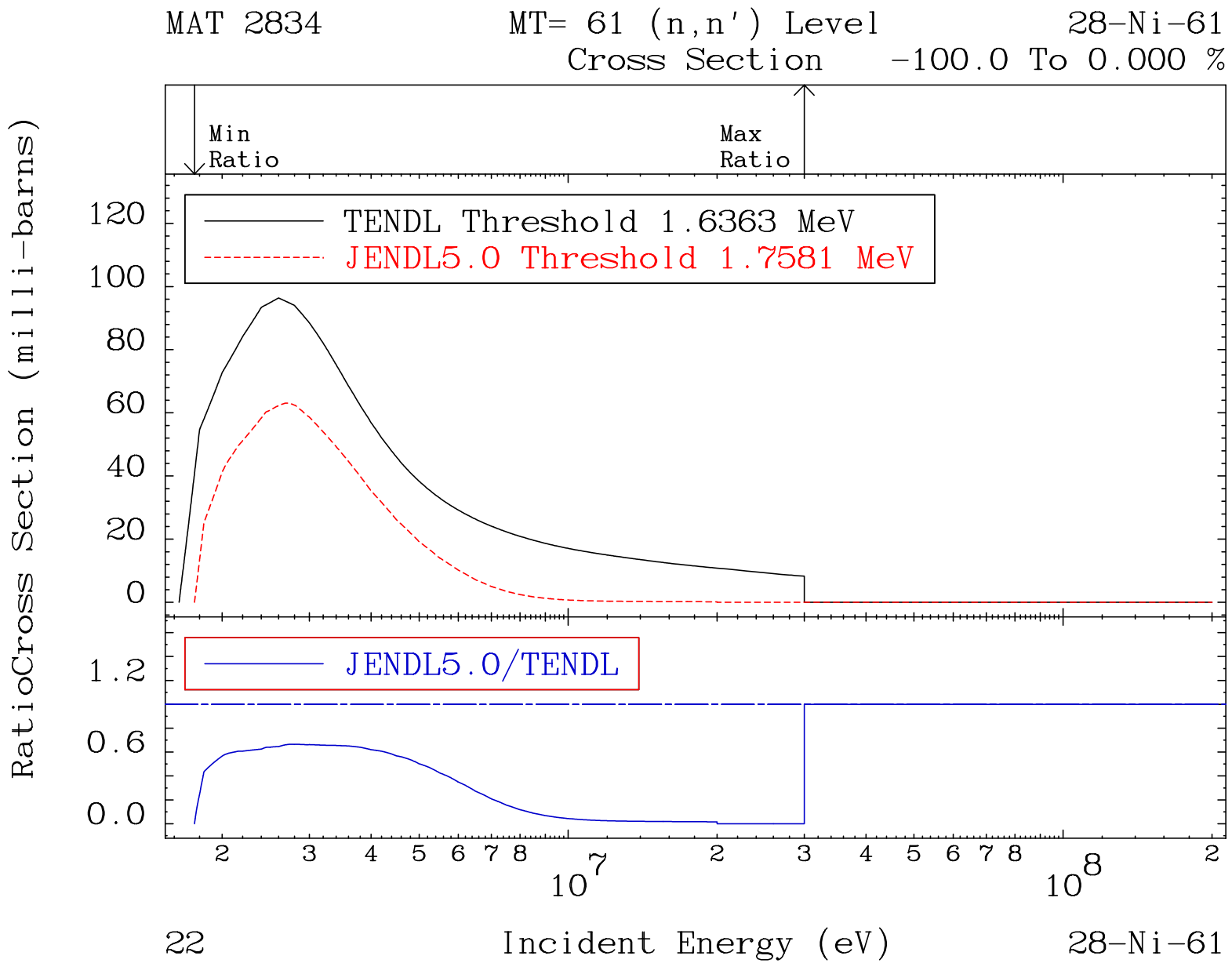

MAT 2834
MT= 56 (n,n') Level
28-Ni-61
Cross Section -100.0 To 962.1 %
Min Ratio
Max Ratio
TENDL Threshold 1.0320 MeV
JENDL5.0 Threshold 1.1178 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
12
6
0
10^6
10^7
10^8
Incident Energy (eV)
17
28-Ni-61

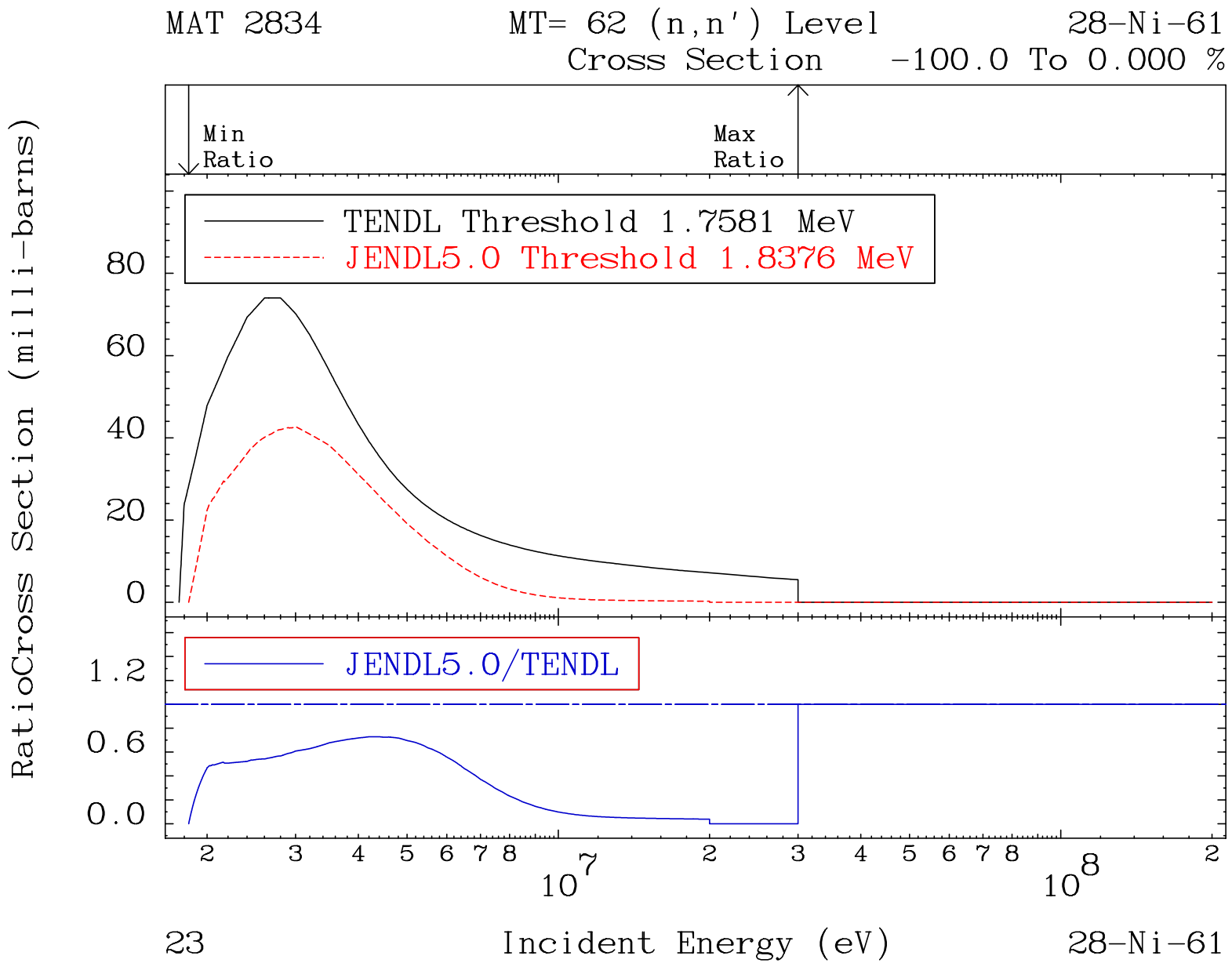

MAT 2834
MT= 57 (n,n') Level
28-Ni-61
Cross Section -100.0 To 1268. %
Min Ratio
Max Ratio
TENDL Threshold 1.1178 MeV
JENDL5.0 Threshold 1.1511 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
20
10
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
28-Ni-61

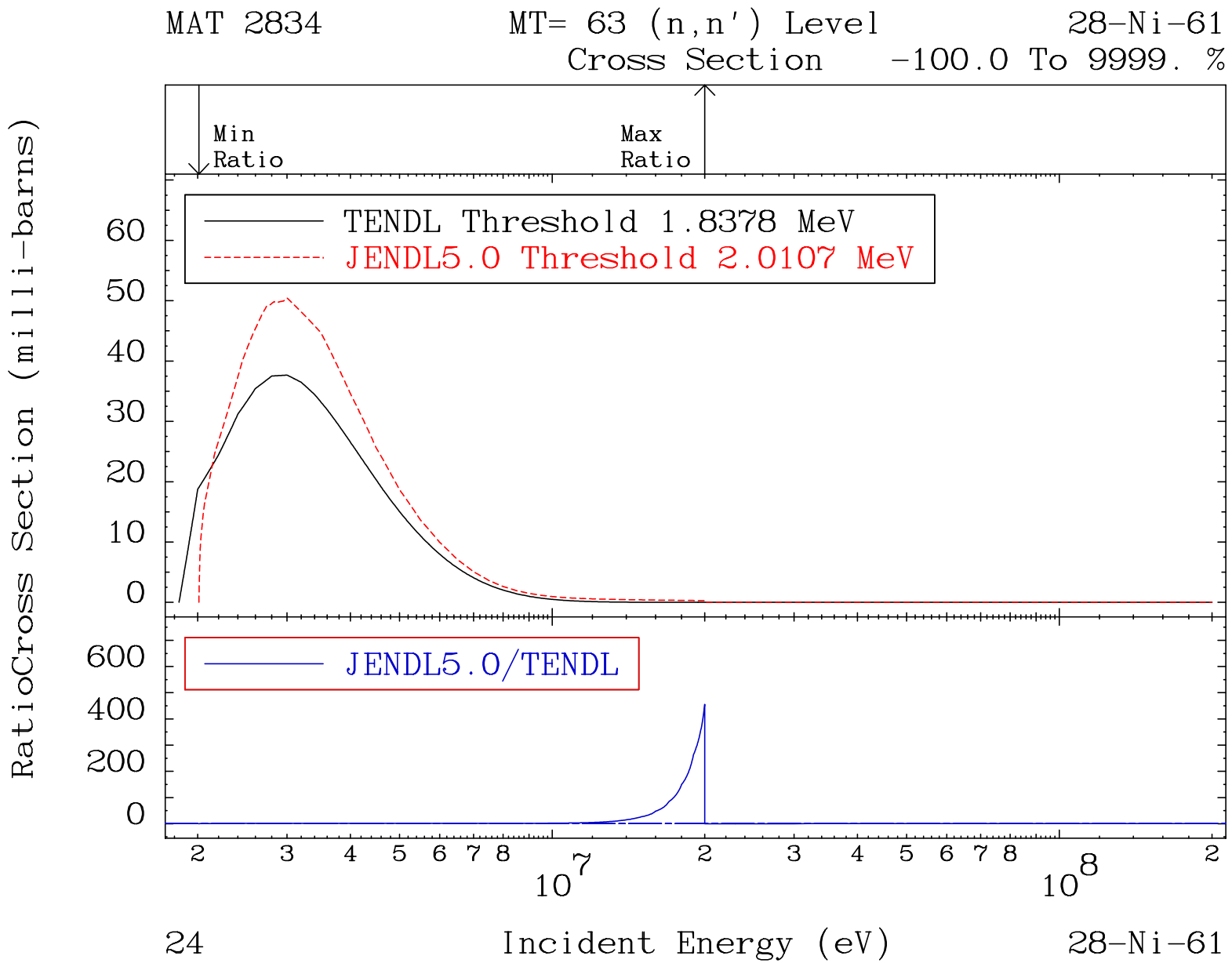

MAT 2834
MT= 58 (n,n') Level
28-Ni-61
Cross Section -100.0 To 3828. %
Min Ratio
Max Ratio
TENDL Threshold 1.1511 MeV
JENDL5.0 Threshold 1.2049 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
60
40
20
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
28-Ni-61

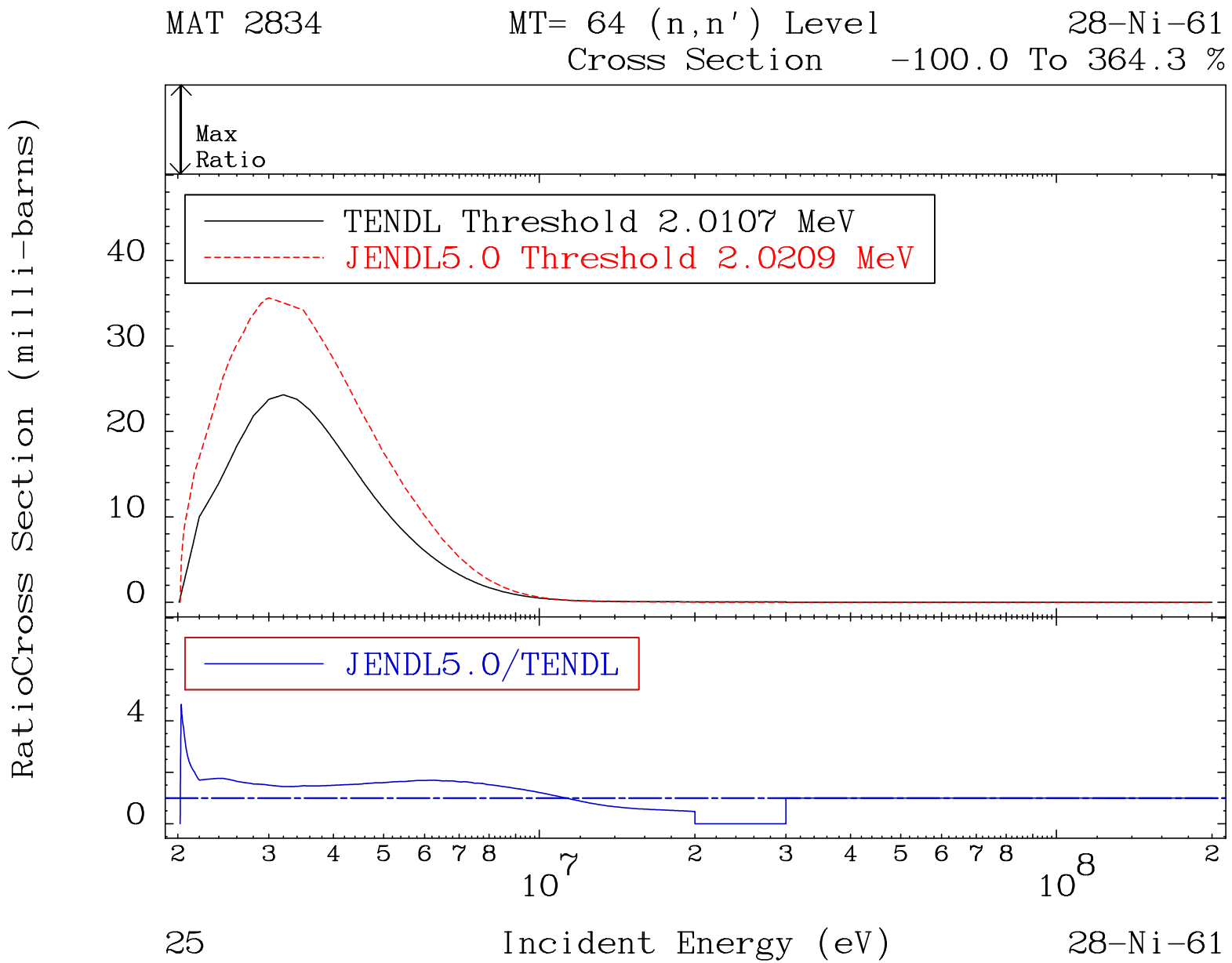

MAT 2834
MT= 59 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2049 MeV
JENDL5.0 Threshold 1.4789 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
300
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
28-Ni-61

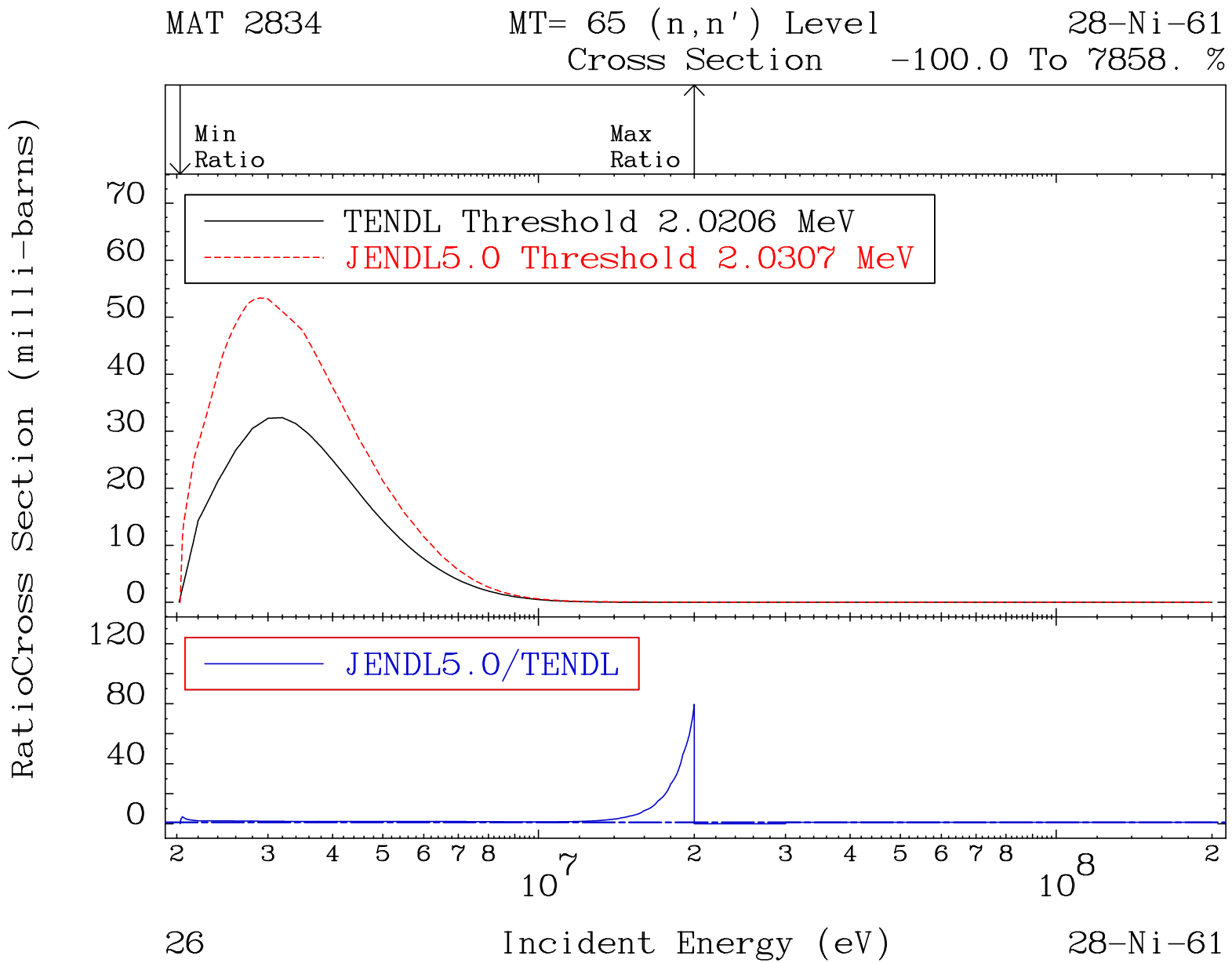

MAT 2834
MT= 60 (n,n') Level
28-Ni-61
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.4789 MeV
JENDL5.0 Threshold 1.6363 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
28-Ni-61

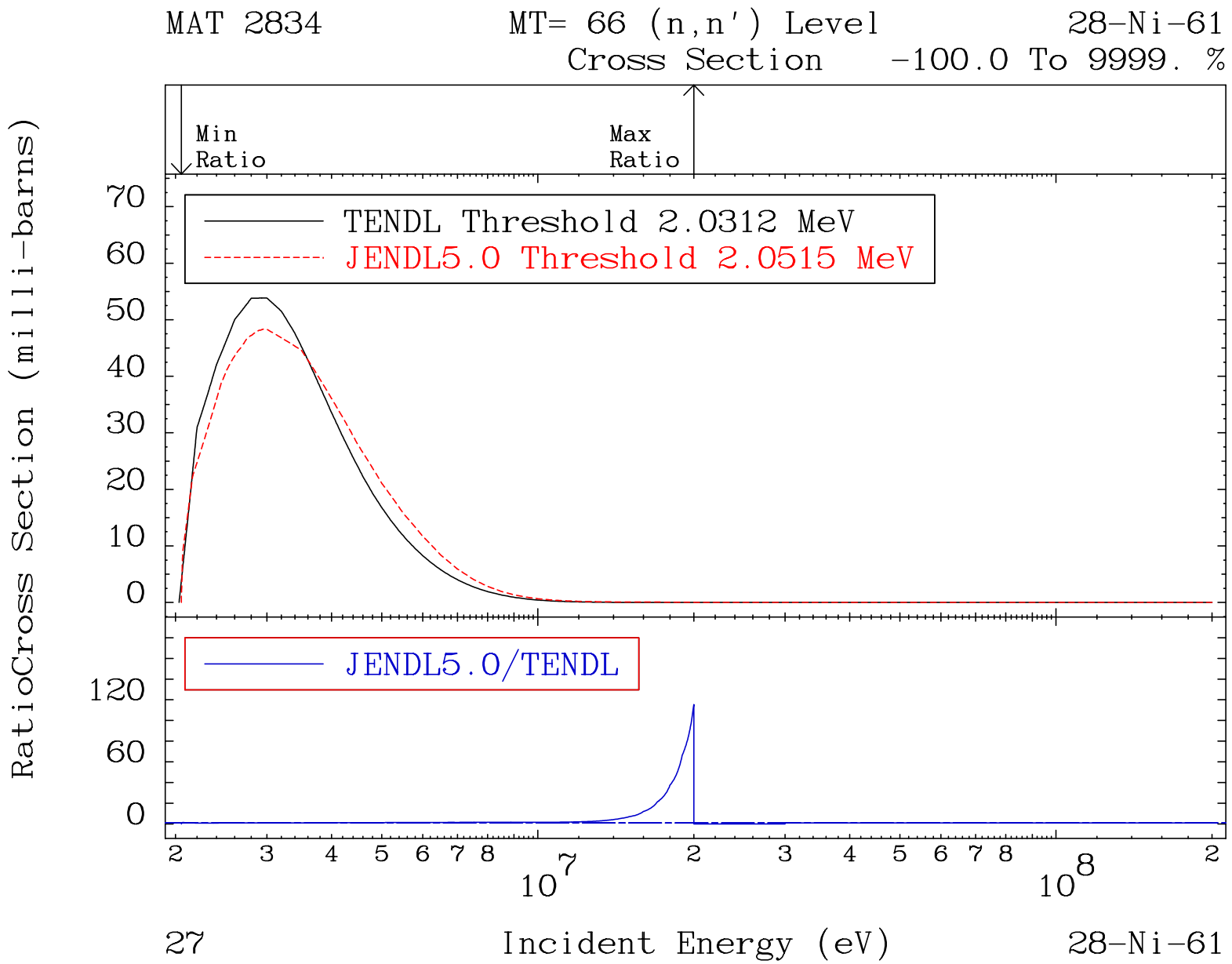

MAT 2834
MT= 61 (n,n') Level
28-Ni-61
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.6363 MeV
JENDL5.0 Threshold 1.7581 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
28-Ni-61

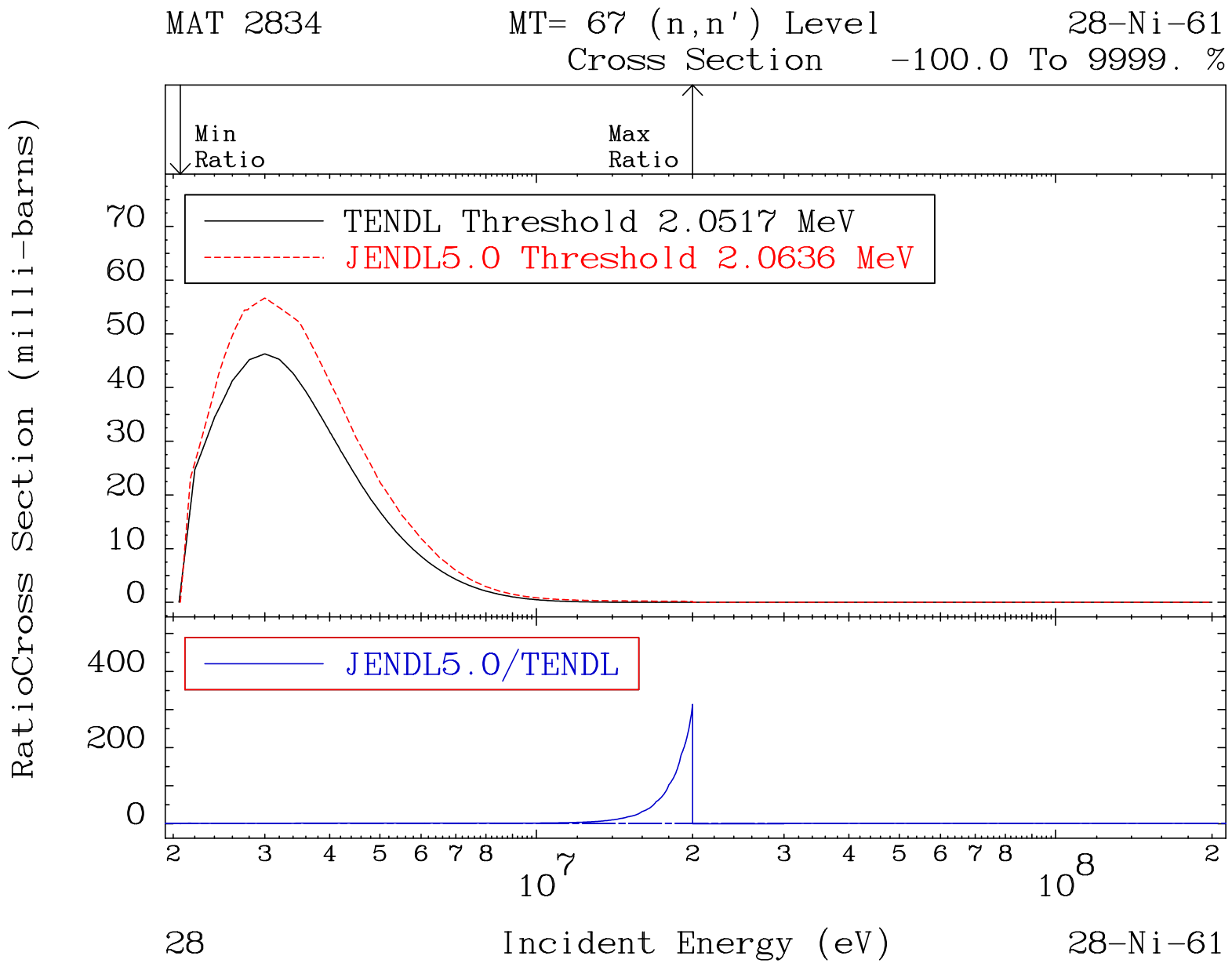

MAT 2834
MT= 62 (n,n') Level
28-Ni-61
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.7581 MeV
JENDL5.0 Threshold 1.8376 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
28-Ni-61

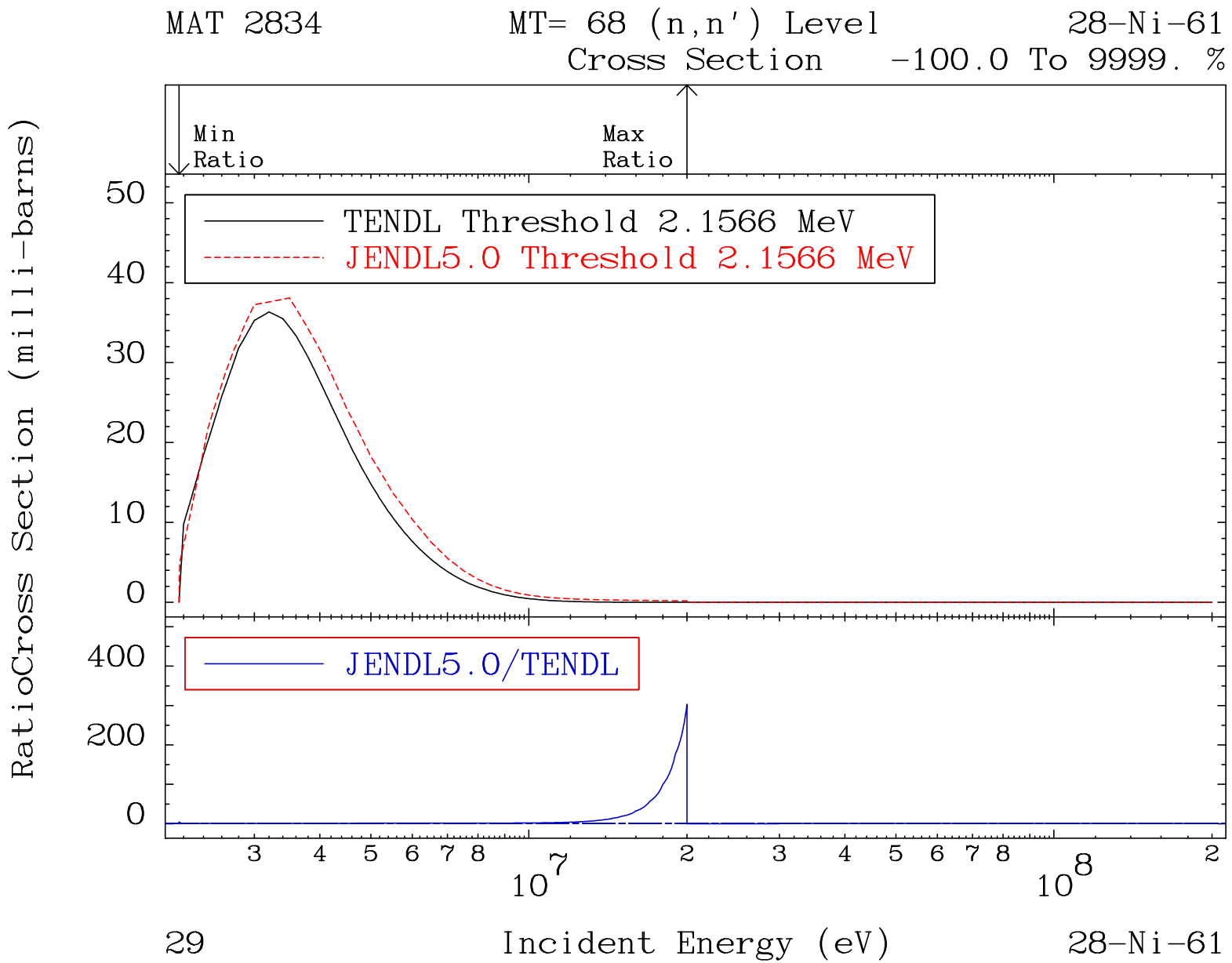

MAT 2834
MT= 63 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8378 MeV
JENDL5.0 Threshold 2.0107 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
600
400
200
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
28-Ni-61

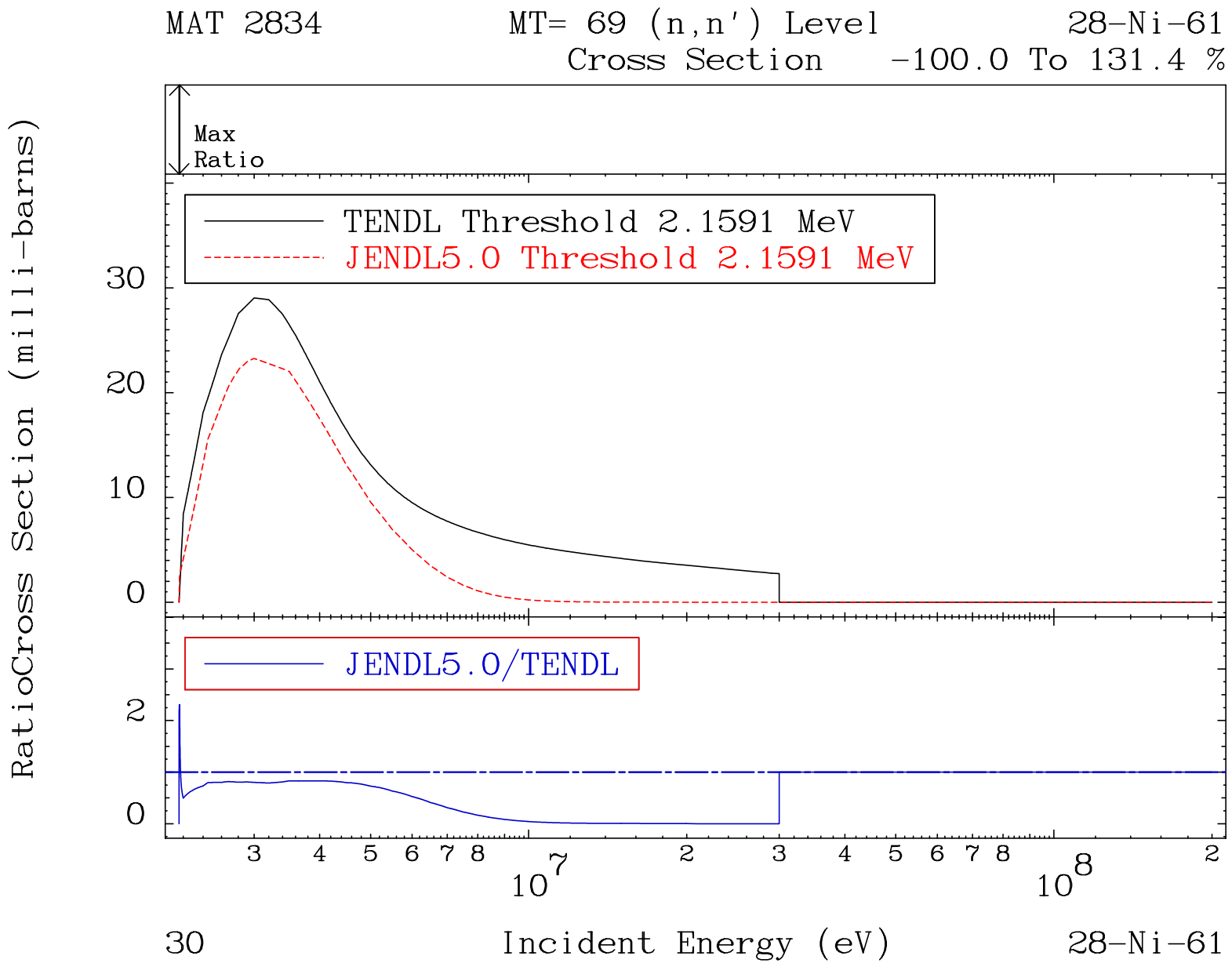

MAT 2834
MT= 64 (n,n') Level
28-Ni-61
Cross Section -100.0 To 364.3 %
Max
Ratio
TENDL Threshold 2.0107 MeV
JENDL5.0 Threshold 2.0209 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
28-Ni-61

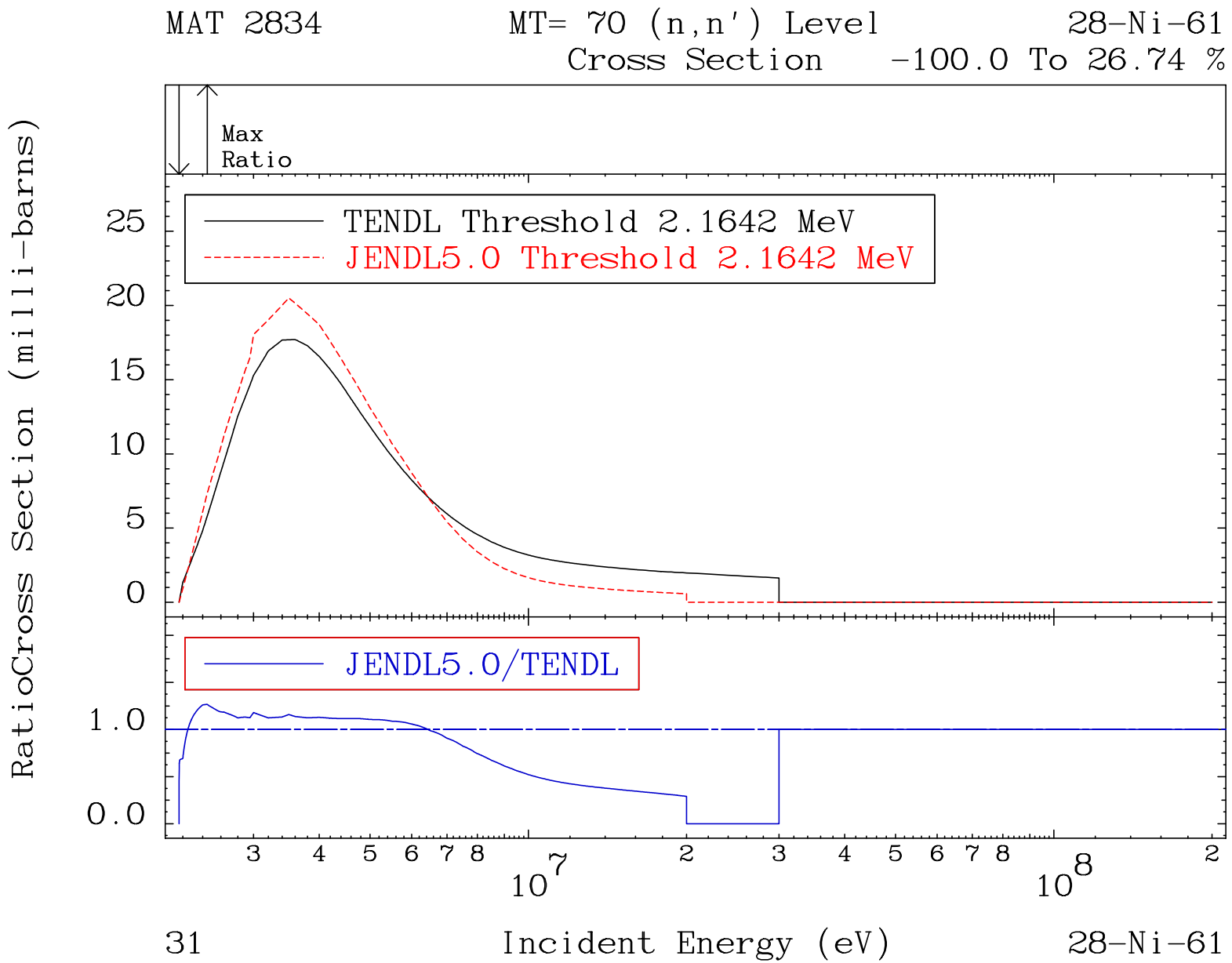

MAT 2834
MT= 65 (n,n') Level
28-Ni-61
Cross Section -100.0 To 7858. %
Min Ratio
Max Ratio
TENDL Threshold 2.0206 MeV
JENDL5.0 Threshold 2.0307 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
28-Ni-61

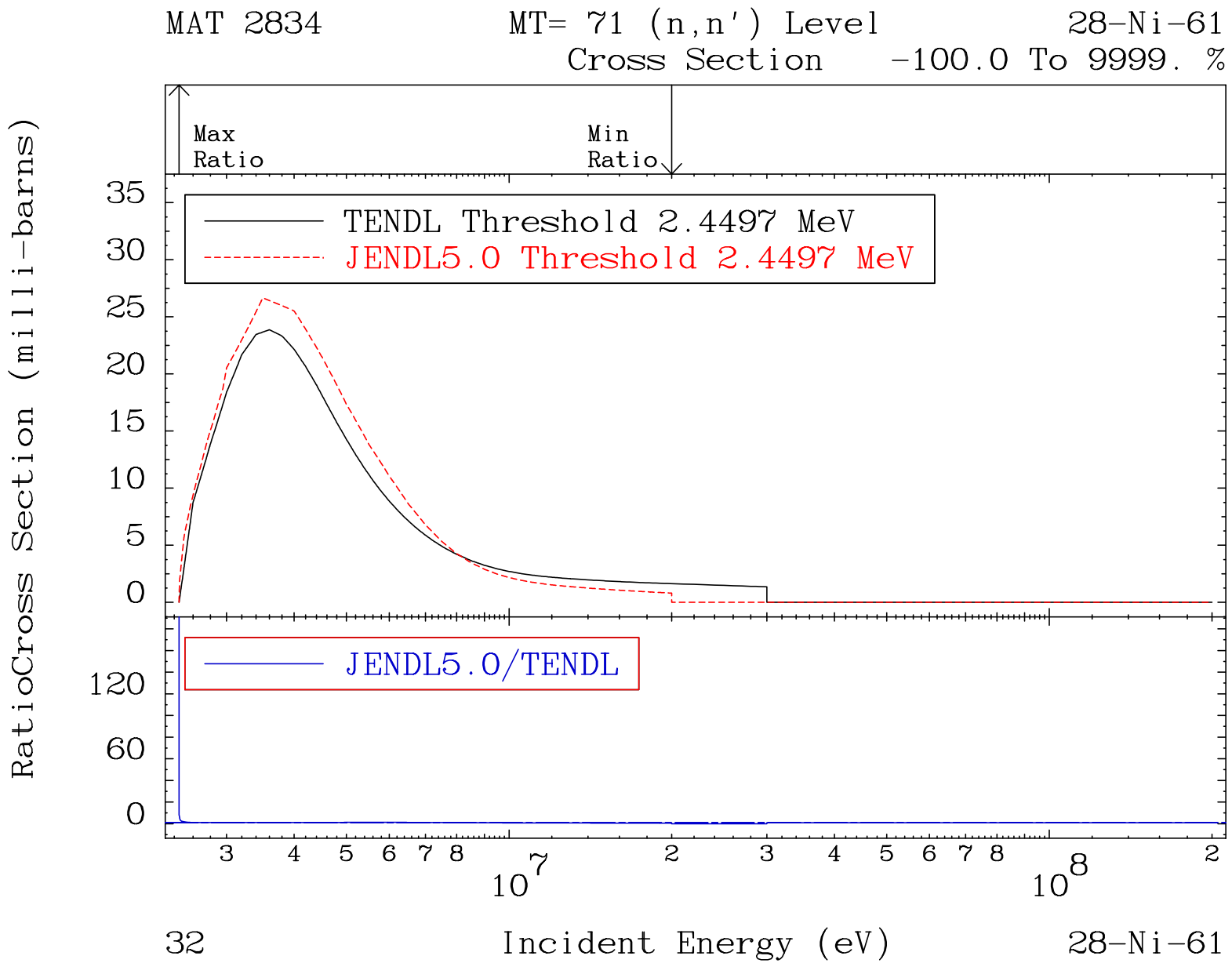

MAT 2834
MT= 66 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0312 MeV
JENDL5.0 Threshold 2.0515 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
27
28-Ni-61

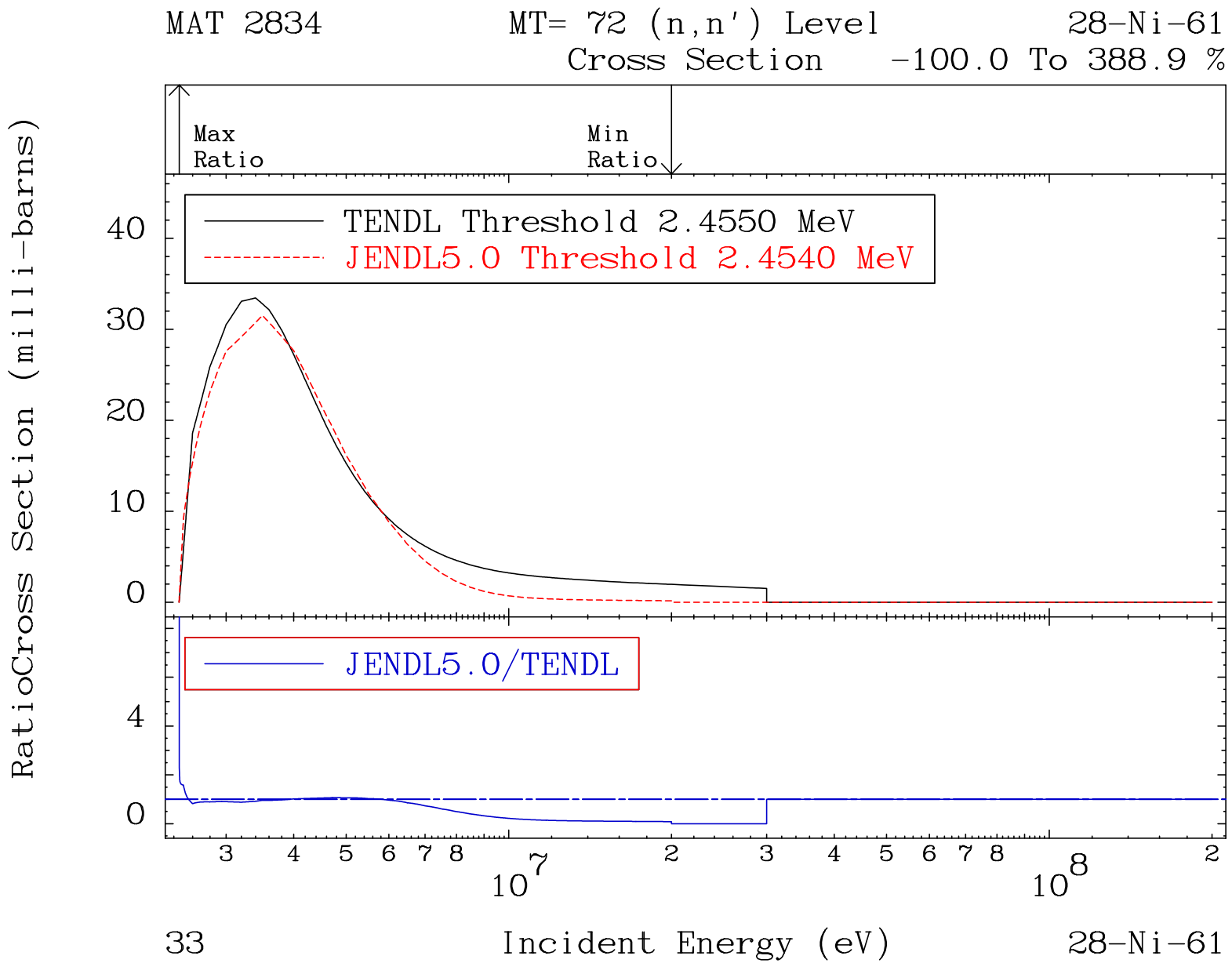

MAT 2834
MT= 67 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0517 MeV
JENDL5.0 Threshold 2.0636 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
400
200
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
28-Ni-61

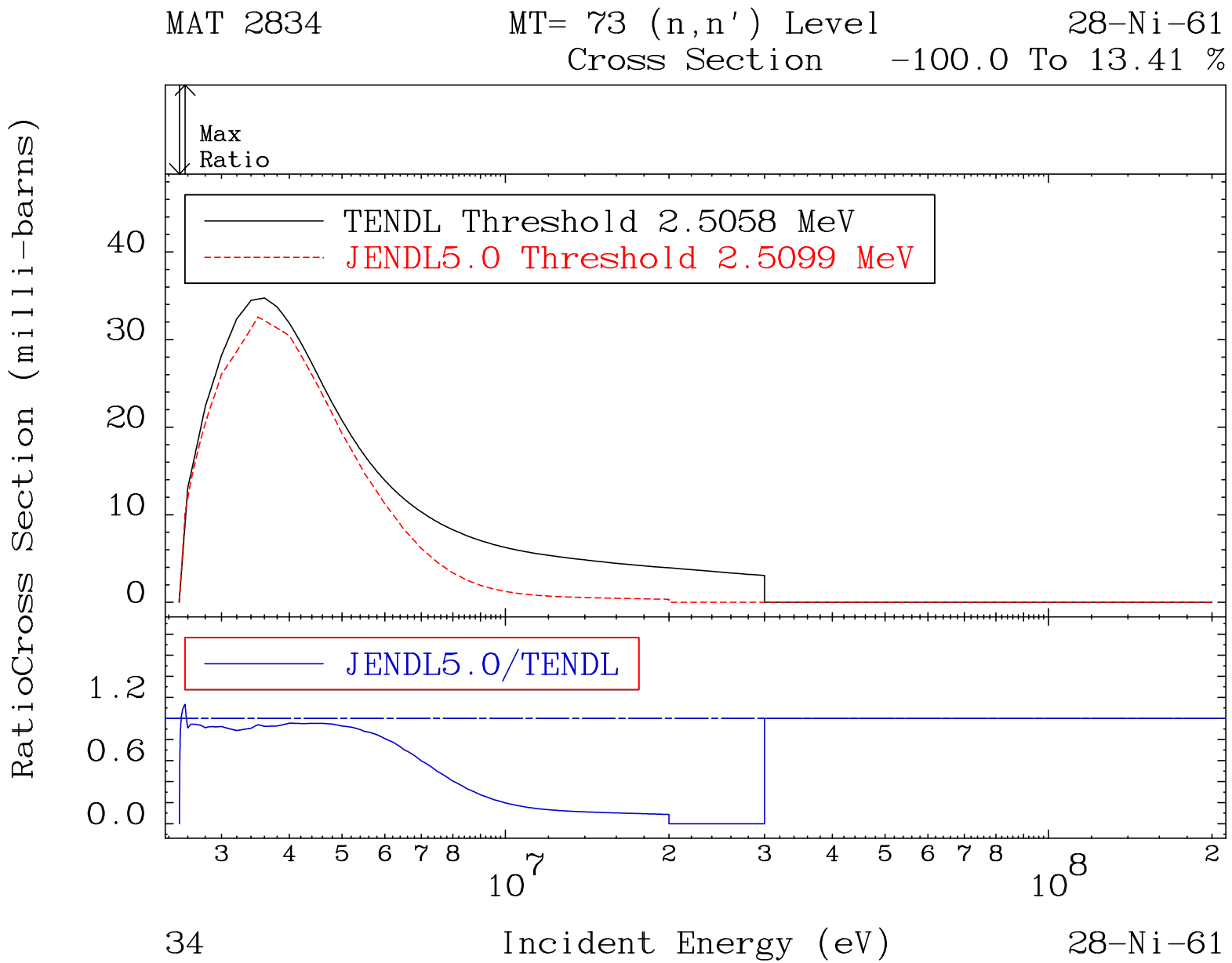

MAT 2834
MT= 68 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1566 MeV
JENDL5.0 Threshold 2.1566 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
400
200
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
28-Ni-61

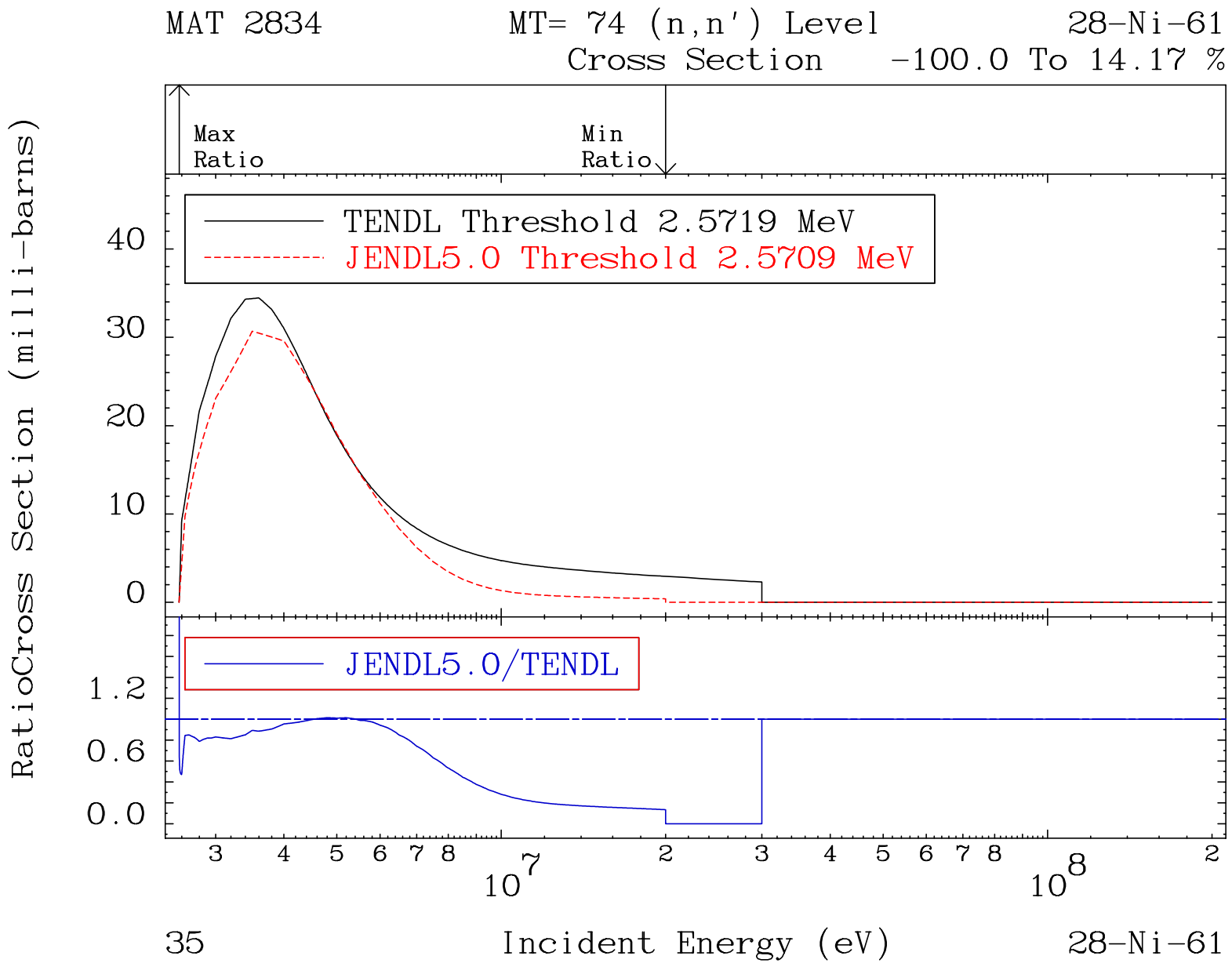

MAT 2834
MT= 69 (n,n') Level
28-Ni-61
Cross Section -100.0 To 131.4 %
Max
Ratio
TENDL Threshold 2.1591 MeV
JENDL5.0 Threshold 2.1591 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
28-Ni-61

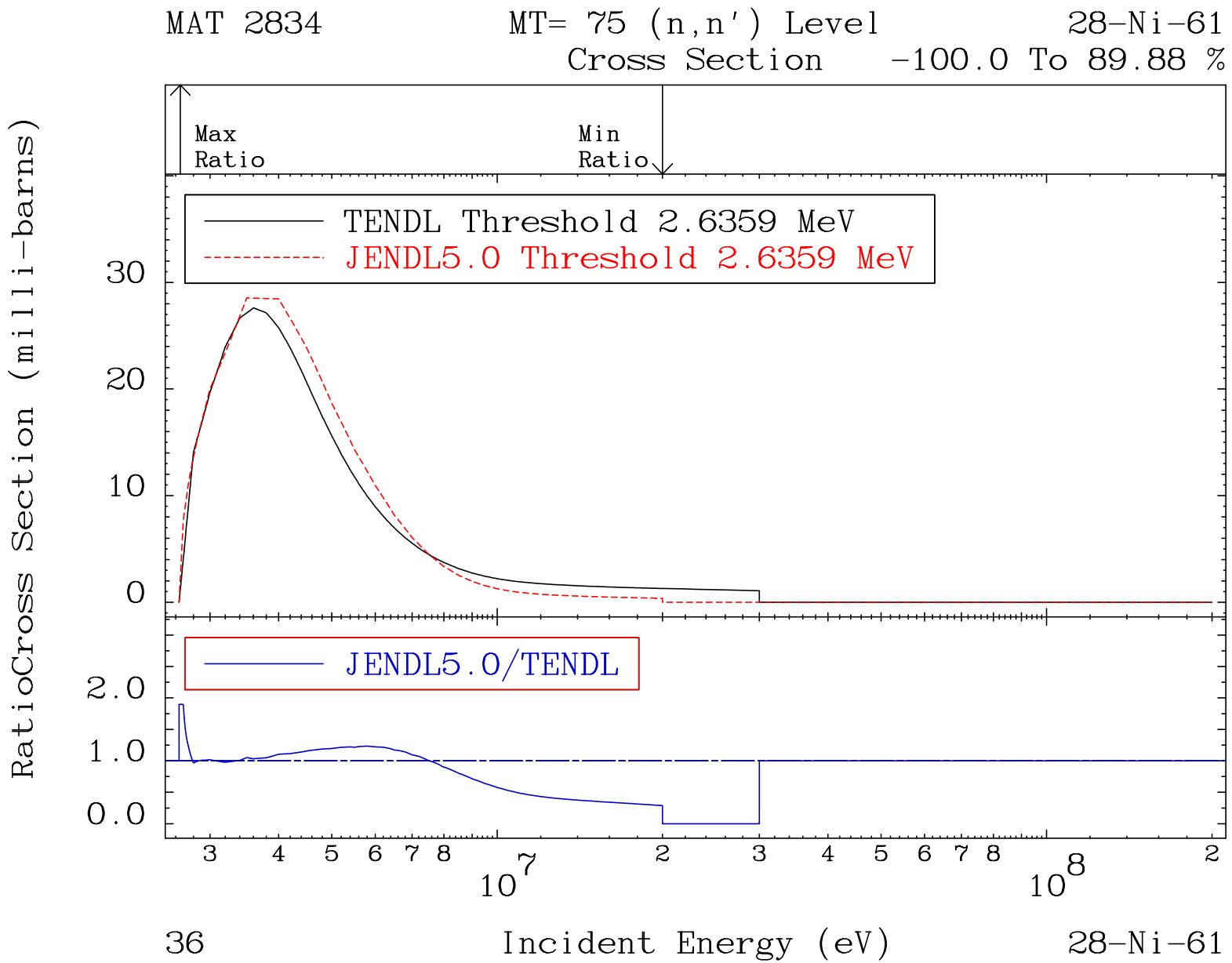

MAT 2834
MT= 70 (n,n') Level
28-Ni-61
Cross Section -100.0 To 26.74 %
Max
Ratio
TENDL Threshold 2.1642 MeV
JENDL5.0 Threshold 2.1642 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
28-Ni-61

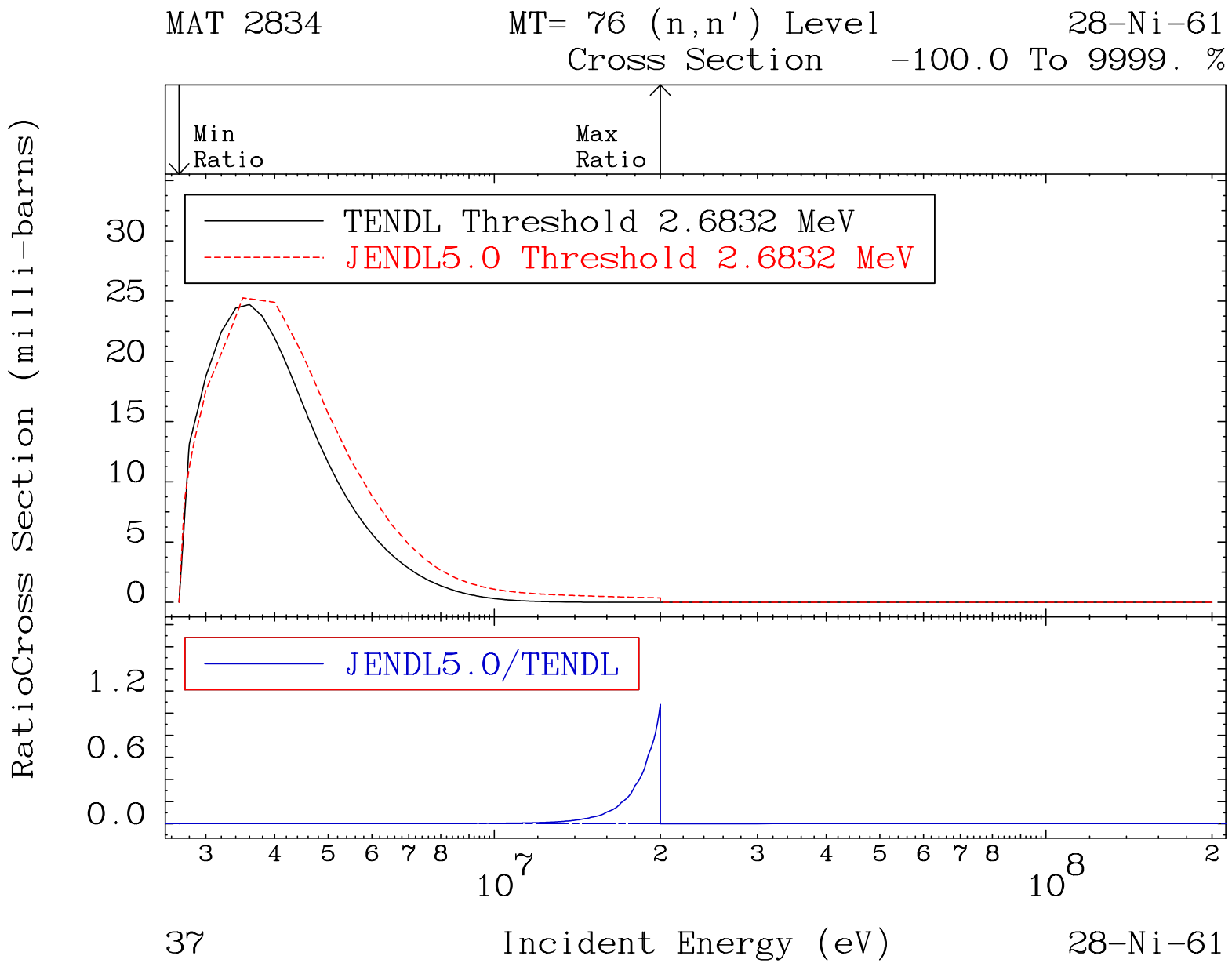

MAT 2834
MT= 71 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.4497 MeV
JENDL5.0 Threshold 2.4497 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
120
60
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
28-Ni-61

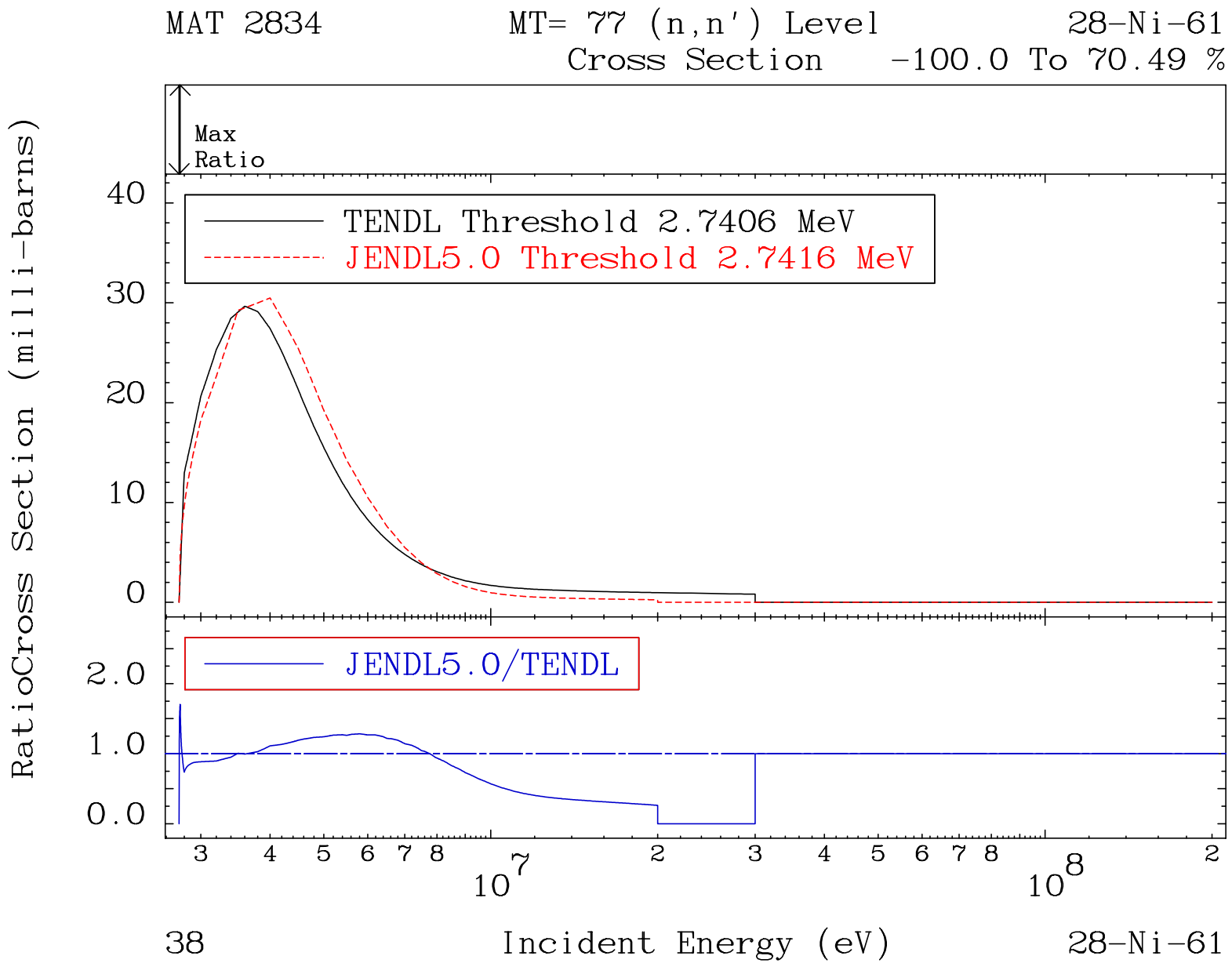

MAT 2834
MT= 72 (n,n') Level
28-Ni-61
Cross Section -100.0 To 388.9 %
Max Ratio
Min Ratio
TENDL Threshold 2.4550 MeV
JENDL5.0 Threshold 2.4540 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
28-Ni-61

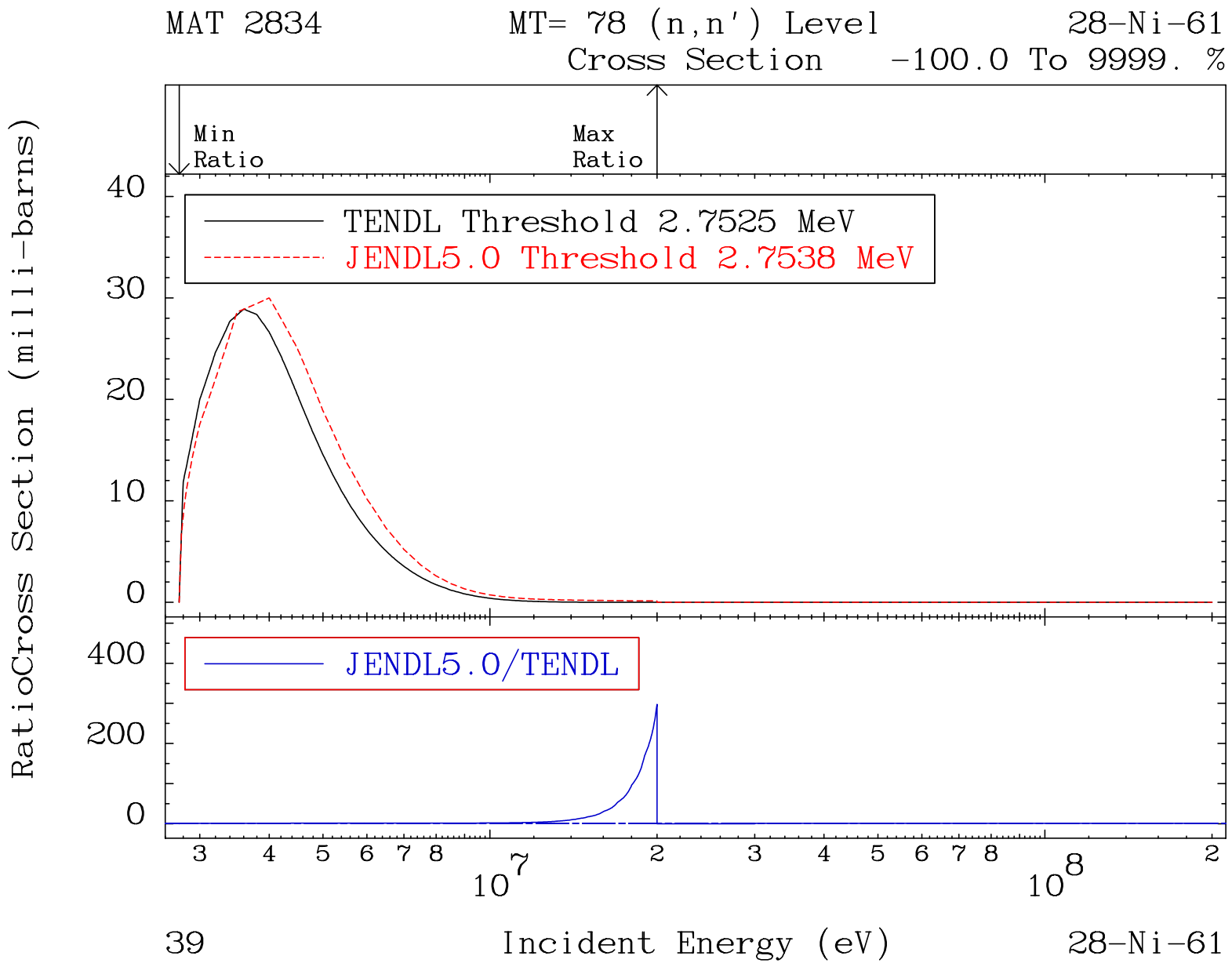

MAT 2834
MT= 73 (n,n') Level
28-Ni-61
Cross Section -100.0 To 13.41 %
Max
Ratio
TENDL Threshold 2.5058 MeV
JENDL5.0 Threshold 2.5099 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
28-Ni-61

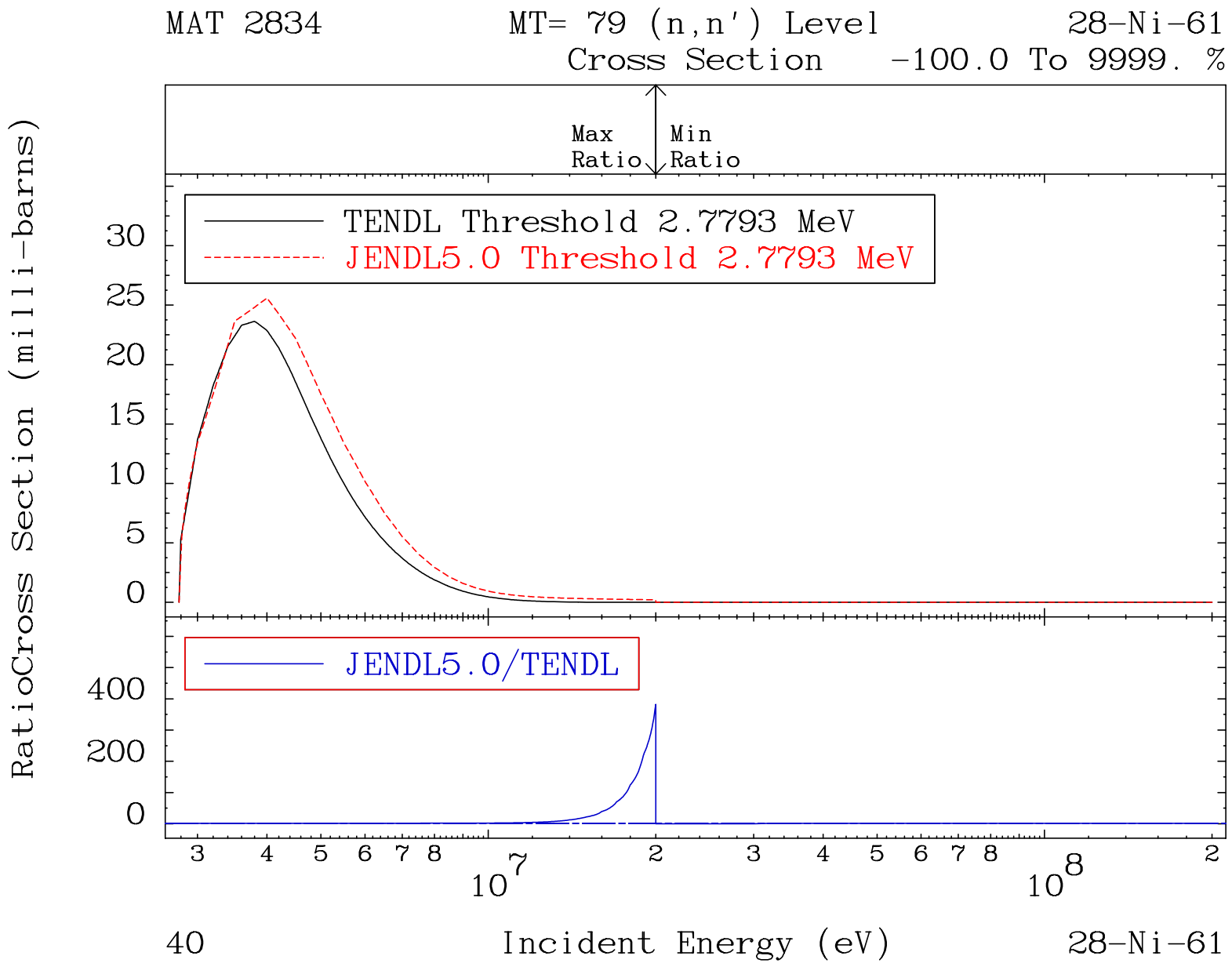

MAT 2834
MT= 74 (n,n') Level
28-Ni-61
Cross Section -100.0 To 14.17 %
Max Ratio
Min Ratio
TENDL Threshold 2.5719 MeV
JENDL5.0 Threshold 2.5709 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
28-Ni-61

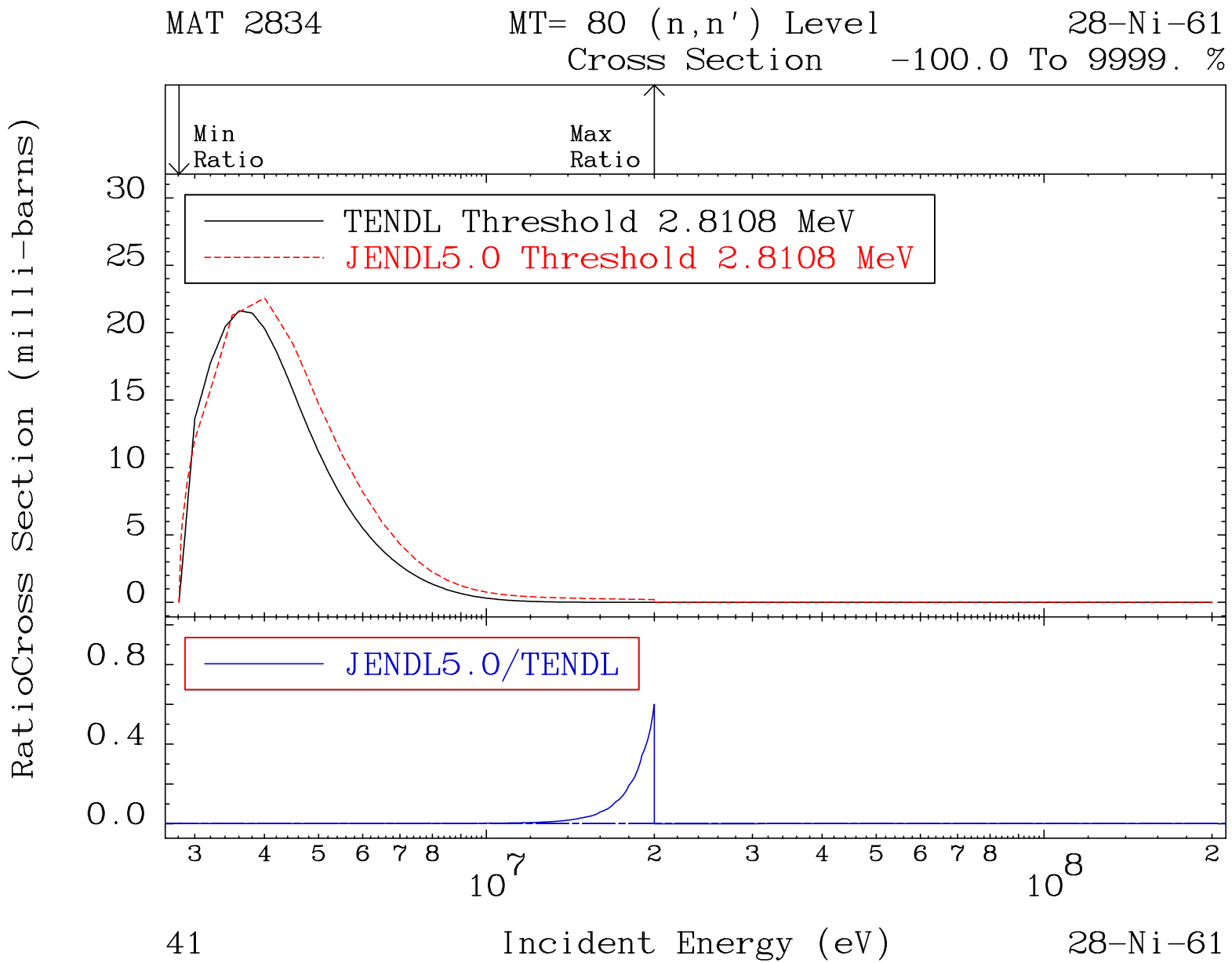

MAT 2834
MT= 75 (n,n') Level
28-Ni-61
Cross Section -100.0 To 89.88 %
Max Ratio
Min Ratio
TENDL Threshold 2.6359 MeV
JENDL5.0 Threshold 2.6359 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
28-Ni-61

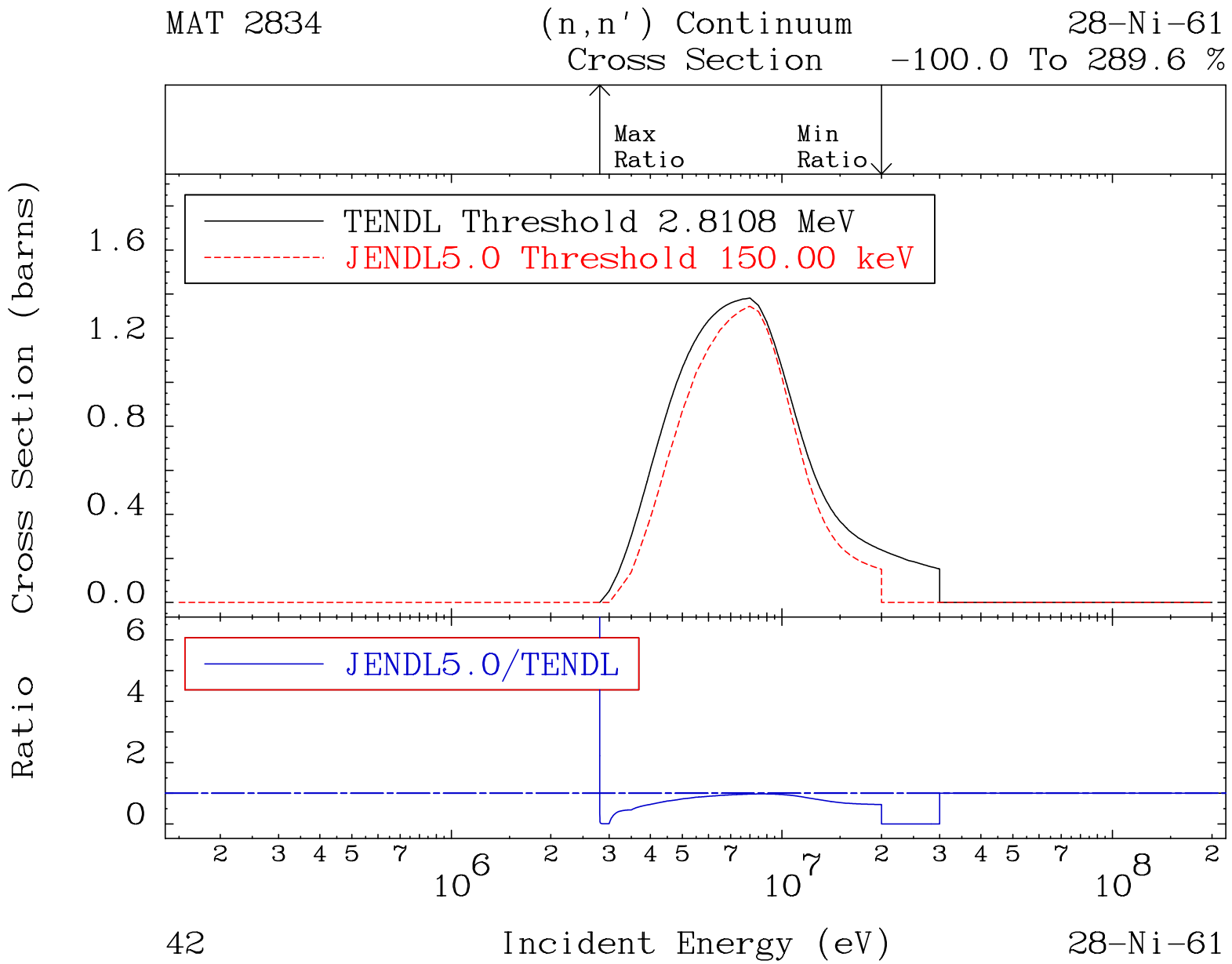

MAT 2834
MT= 76 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6832 MeV
JENDL5.0 Threshold 2.6832 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
28-Ni-61

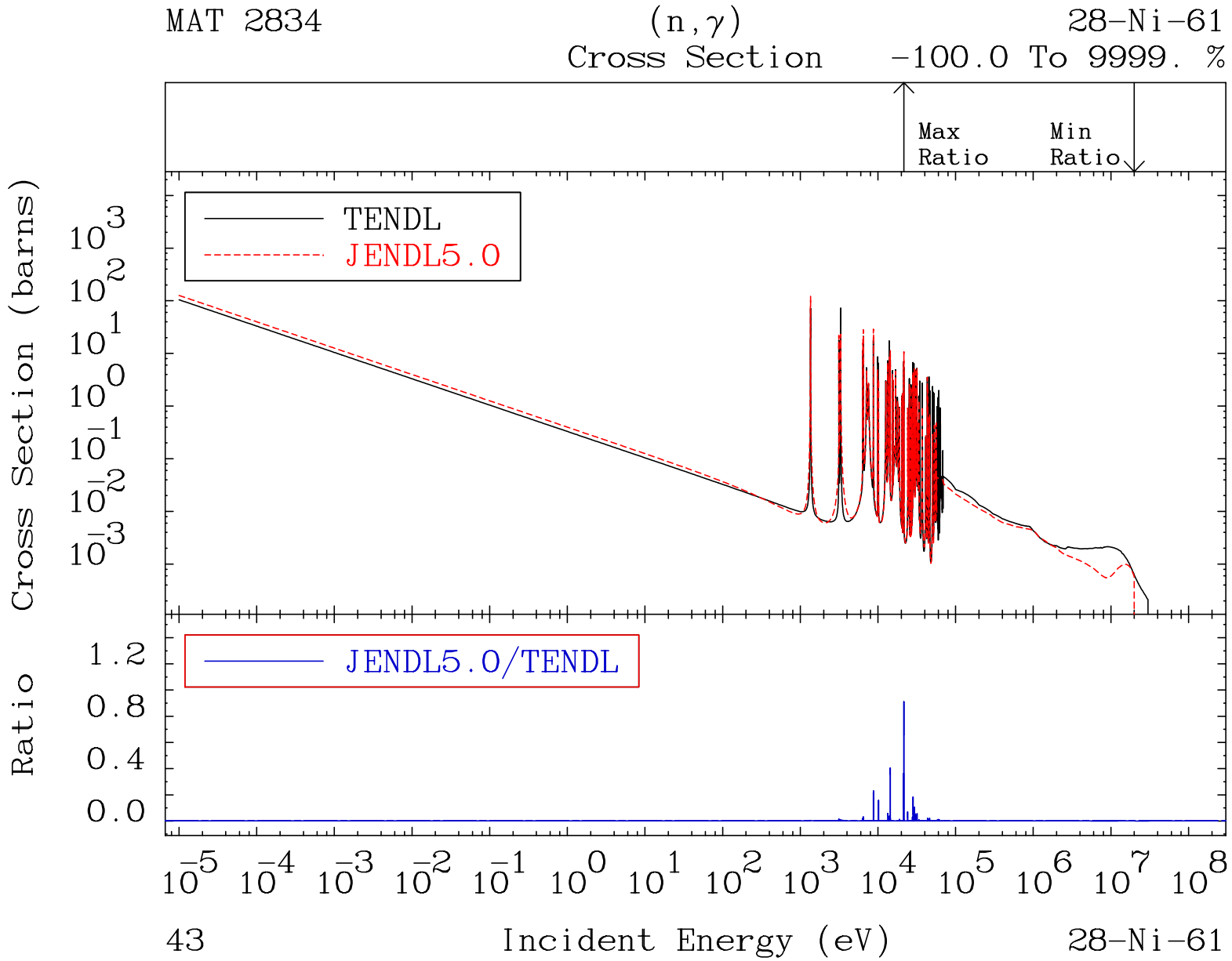

MAT 2834
MT= 77 (n,n') Level
28-Ni-61
Cross Section -100.0 To 70.49 %
Max
Ratio
TENDL Threshold 2.7406 MeV
JENDL5.0 Threshold 2.7416 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
28-Ni-61

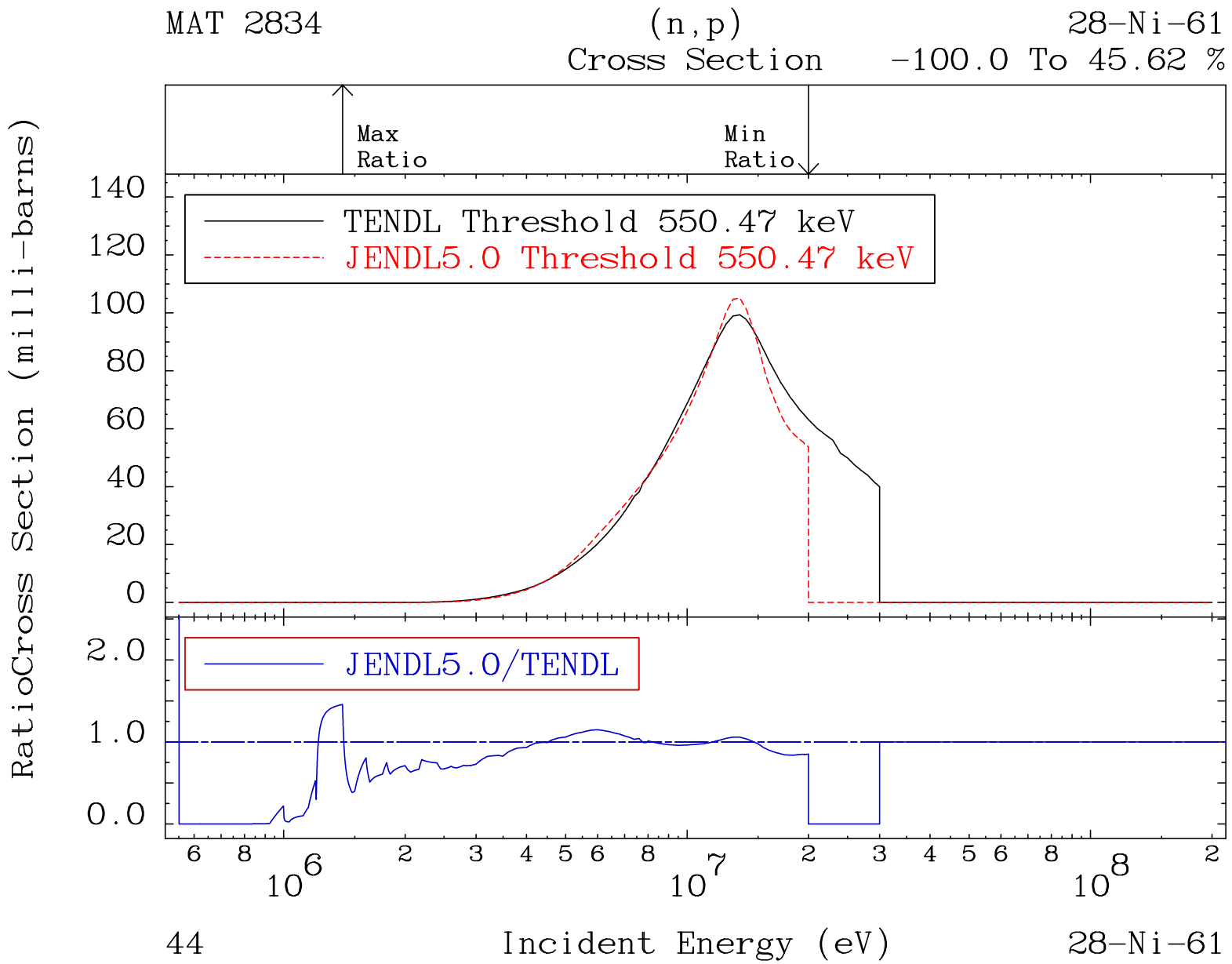

MAT 2834
MT= 78 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.7525 MeV
JENDL5.0 Threshold 2.7538 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
28-Ni-61

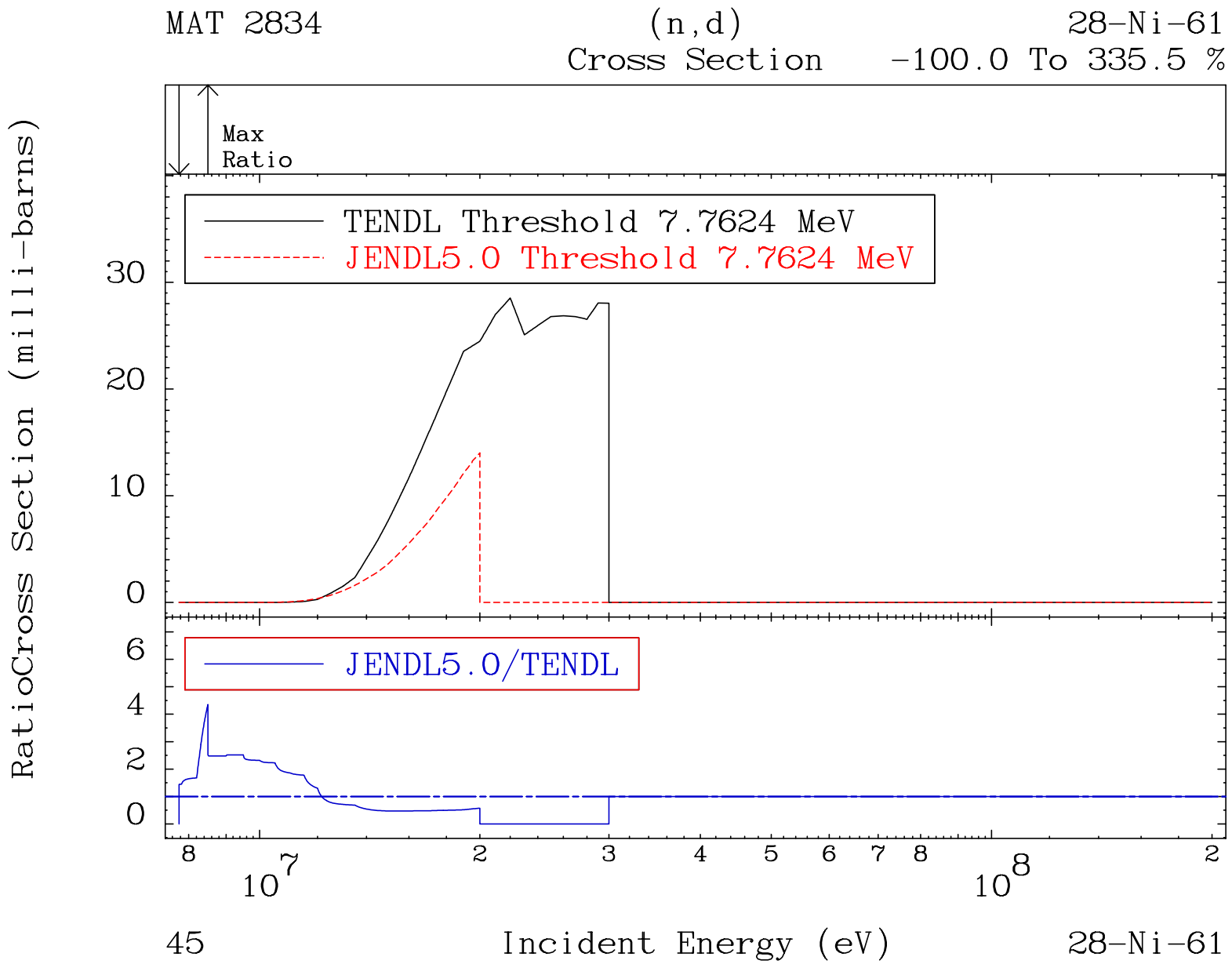

MAT 2834
MT= 79 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.7793 MeV
JENDL5.0 Threshold 2.7793 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
28-Ni-61

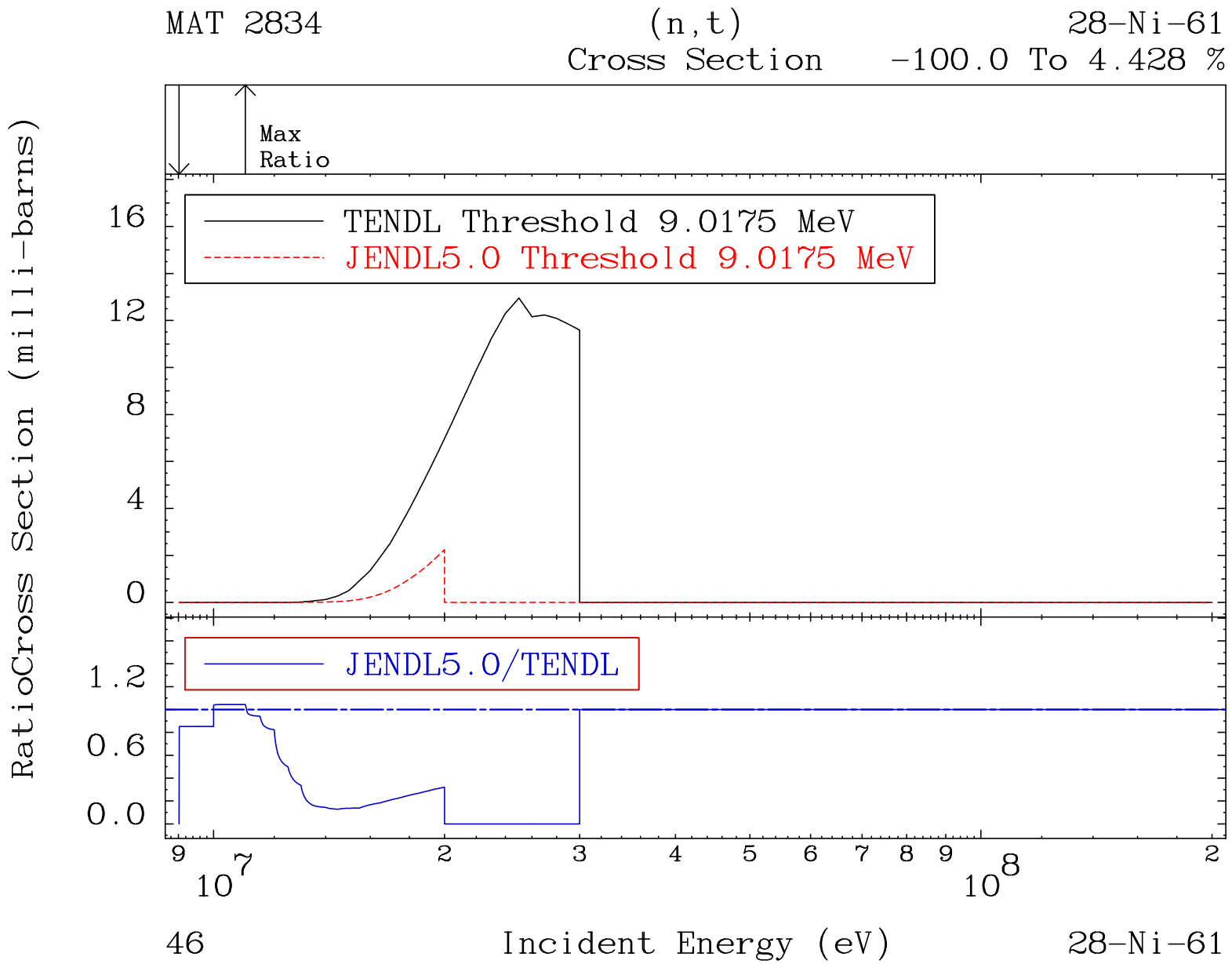

MAT 2834
MT= 80 (n,n') Level
28-Ni-61
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.8108 MeV
JENDL5.0 Threshold 2.8108 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
28-Ni-61

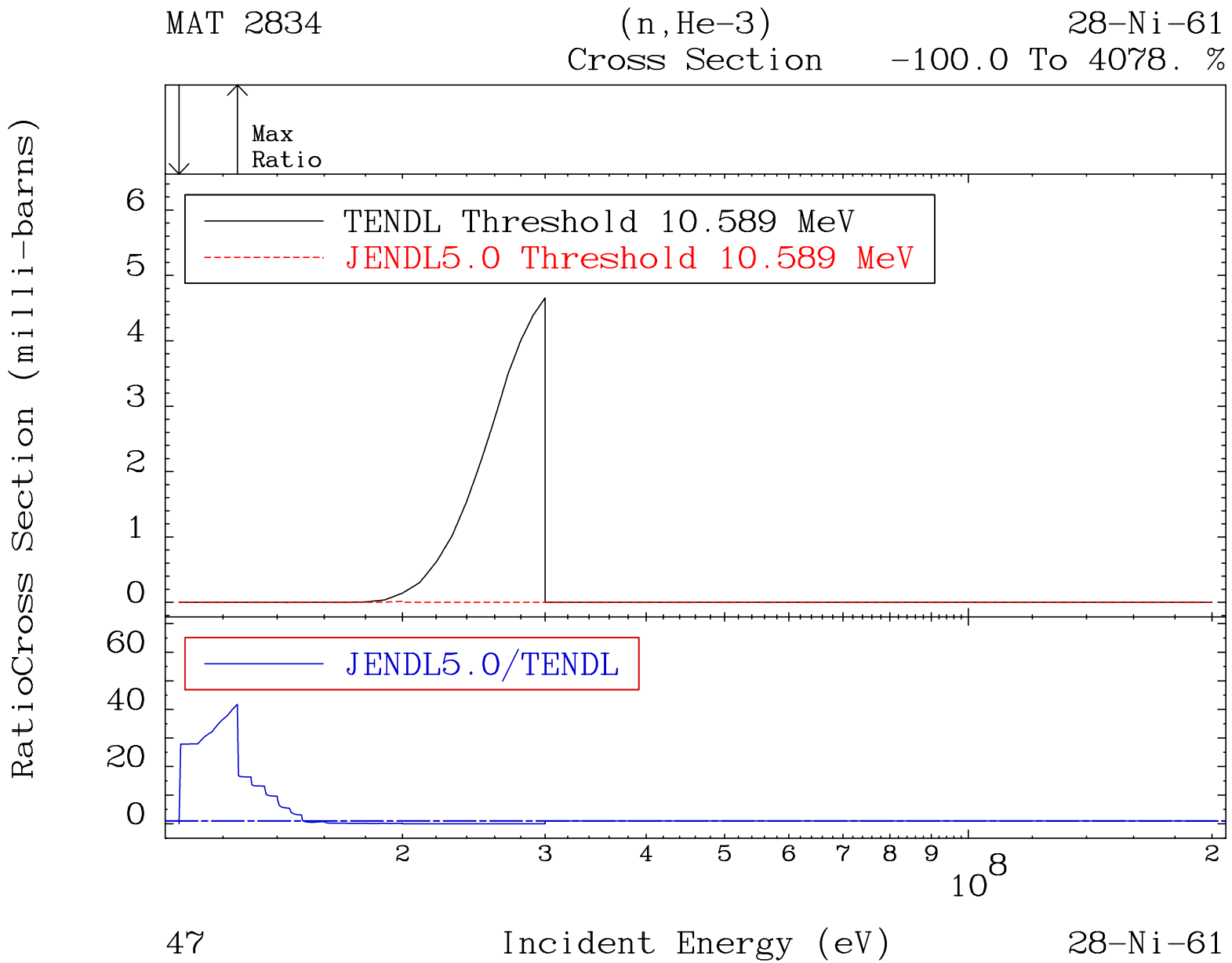

MAT 2834
(n,n') Continuum
Cross Section
28-Ni-61
-100.0 To 289.6 %
Max Ratio
Min Ratio
TENDL Threshold 2.8108 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
28-Ni-61

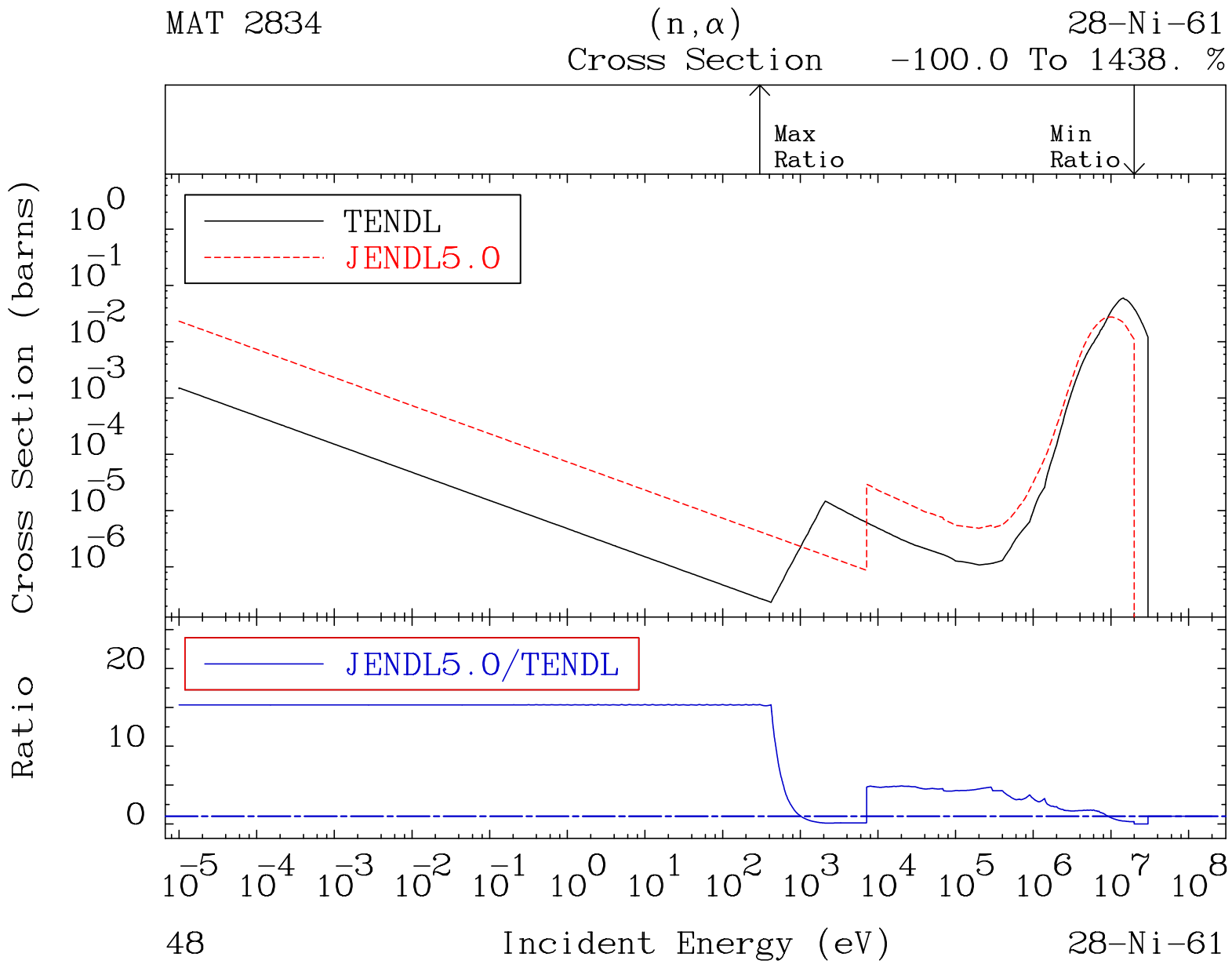

MAT 2834
(n,γ)
Cross Section
28-Ni-61
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
28-Ni-61

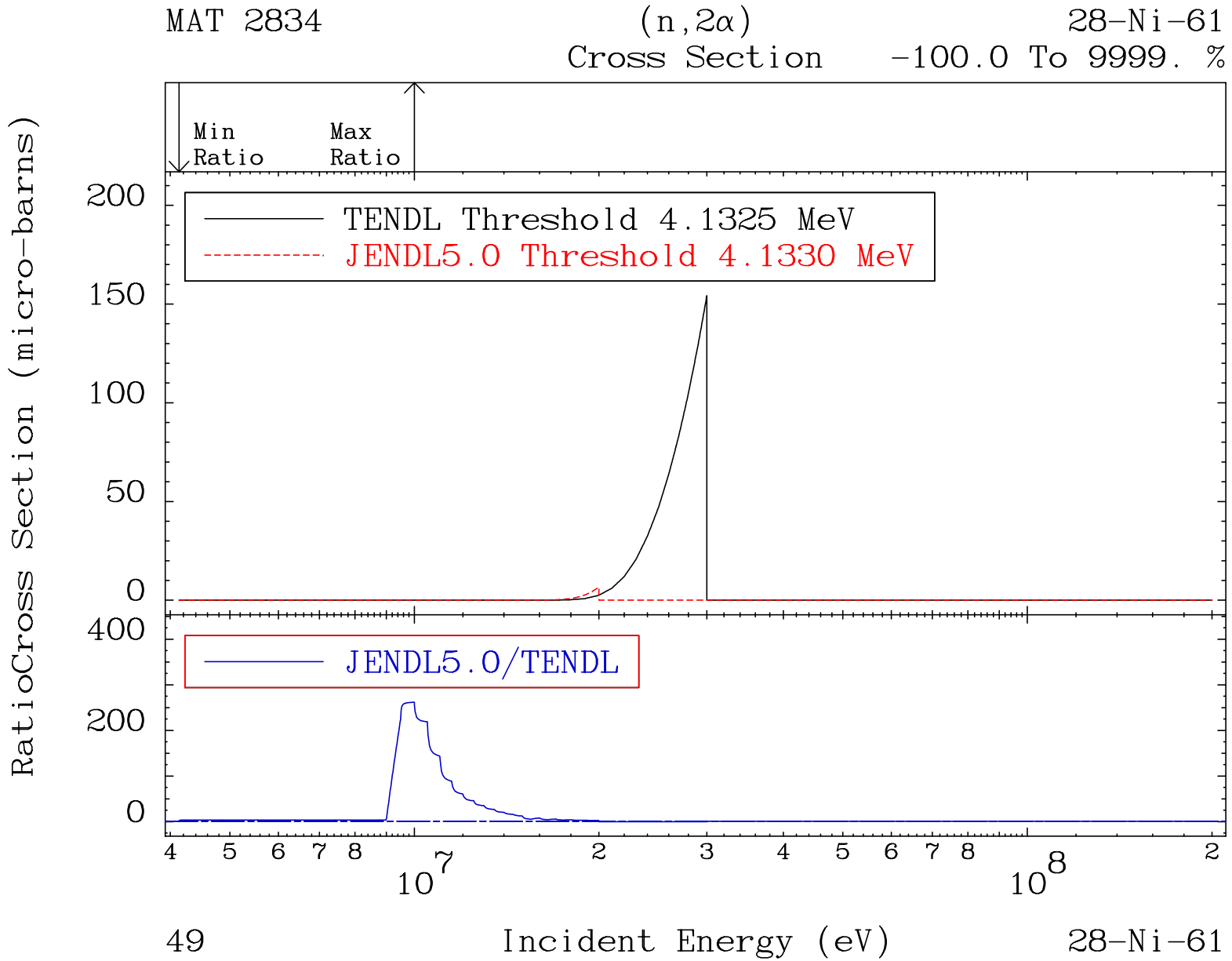

MAT 2834
(n,p)
Cross Section
28-Ni-61
-100.0 To 45.62 %
Max Ratio
Min Ratio
TENDL Threshold 550.47 keV
JENDL5.0 Threshold 550.47 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
44
Incident Energy (eV)
28-Ni-61

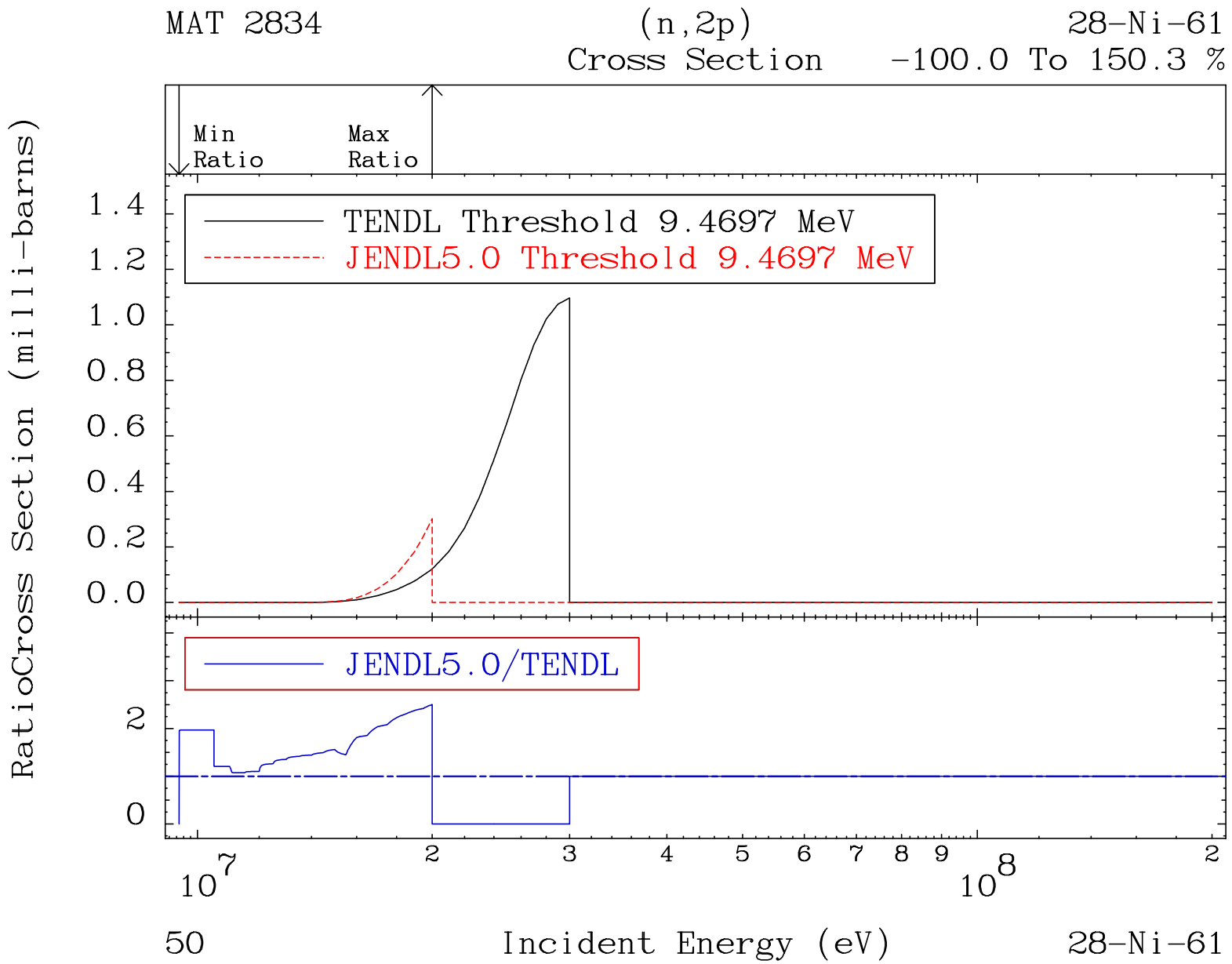

MAT 2834
(n,d)
28-Ni-61
Cross Section
-100.0 To 335.5 %
Max
Ratio
TENDL Threshold 7.7624 MeV
JENDL5.0 Threshold 7.7624 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
6
4
2
0
8
2
3
4
5
6
7
8
2
10^7
10^8
45
Incident Energy (eV)
28-Ni-61

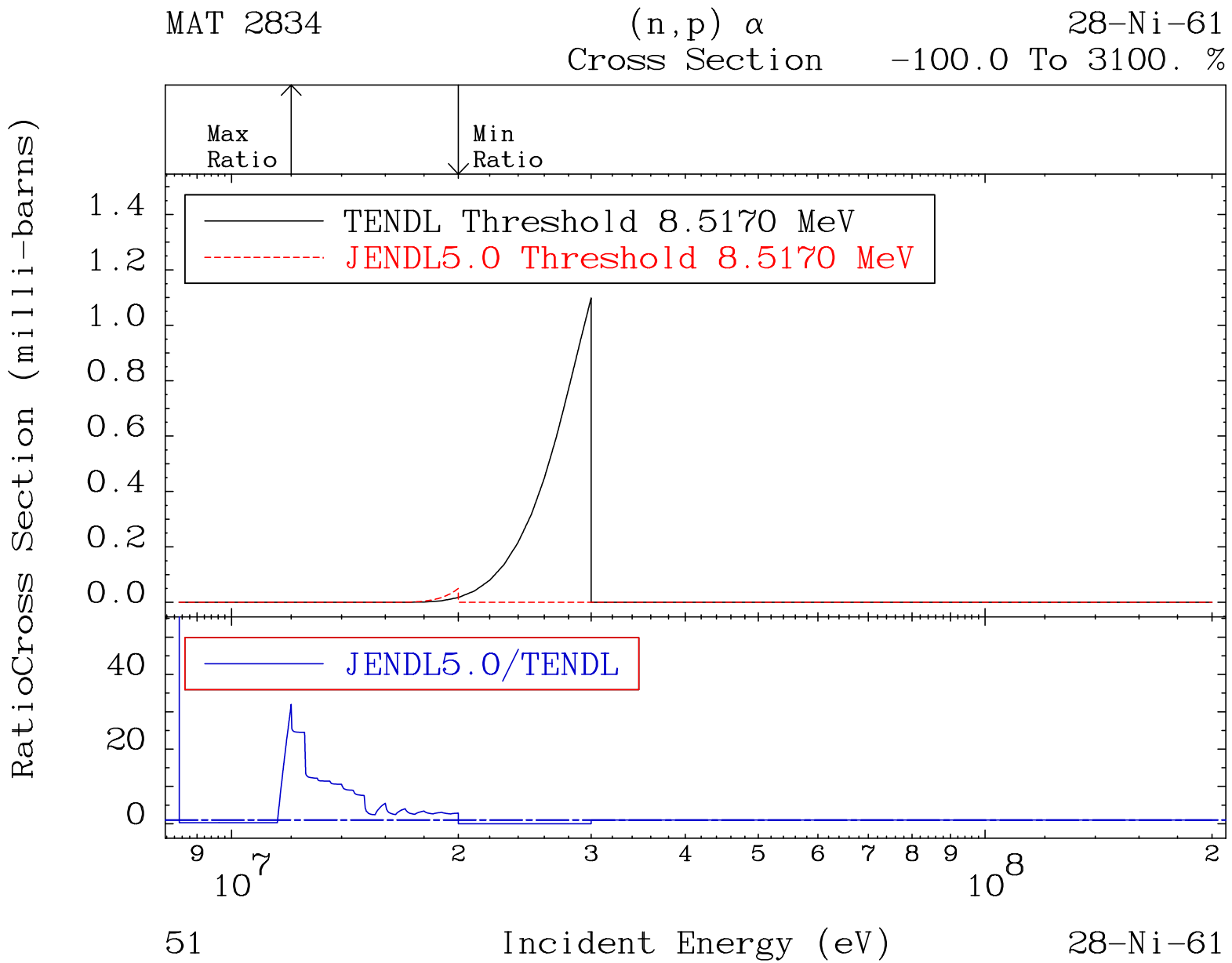

MAT 2834
(n,t)
Cross Section
28-Ni-61
-100.0 To 4.428 %
Max
Ratio
TENDL Threshold 9.0175 MeV
JENDL5.0 Threshold 9.0175 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
28-Ni-61

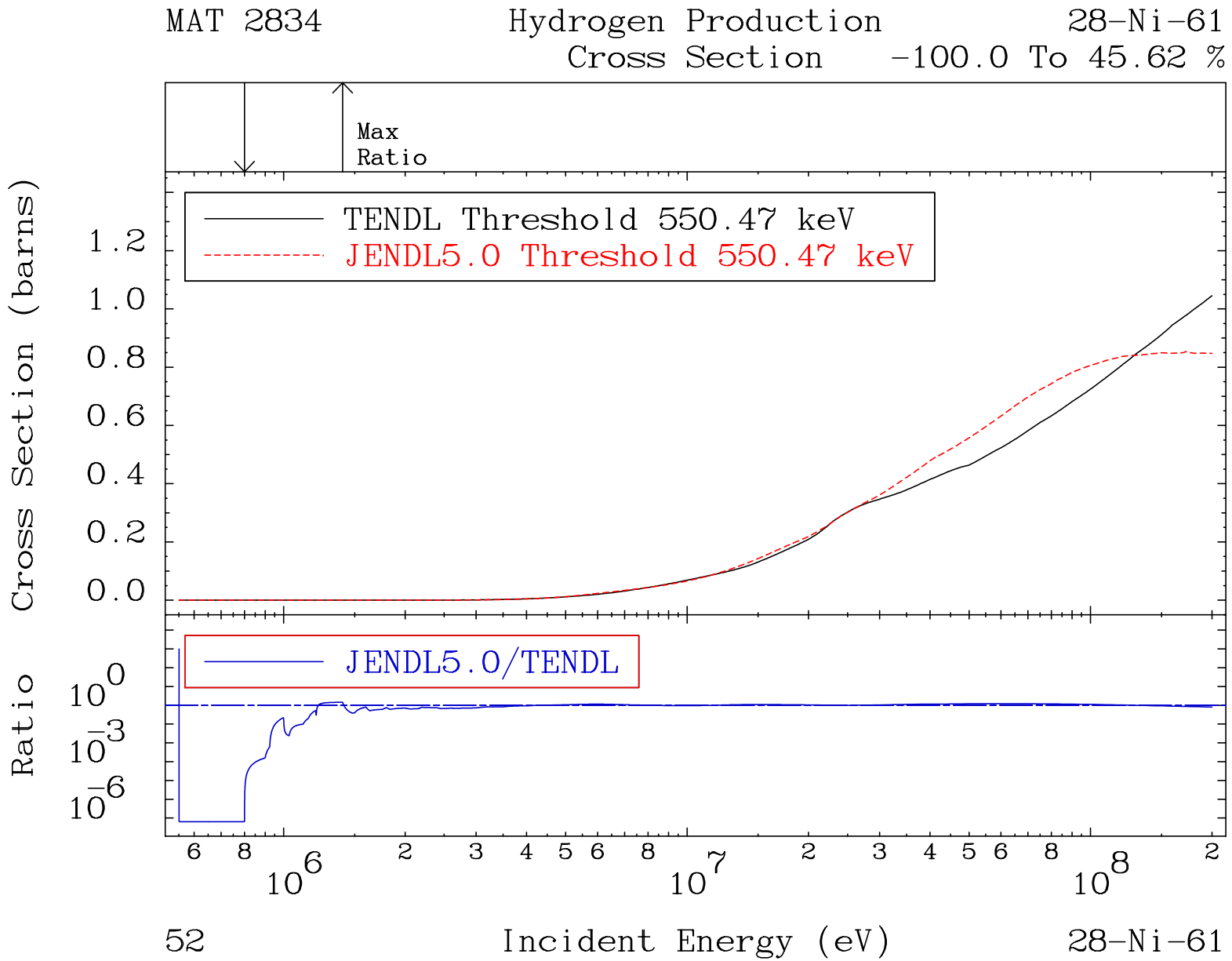

MAT 2834
(n,He-3)
Cross Section
28-Ni-61
-100.0 To 4078. %
Max
Ratio
TENDL Threshold 10.589 MeV
JENDL5.0 Threshold 10.589 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
47
28-Ni-61

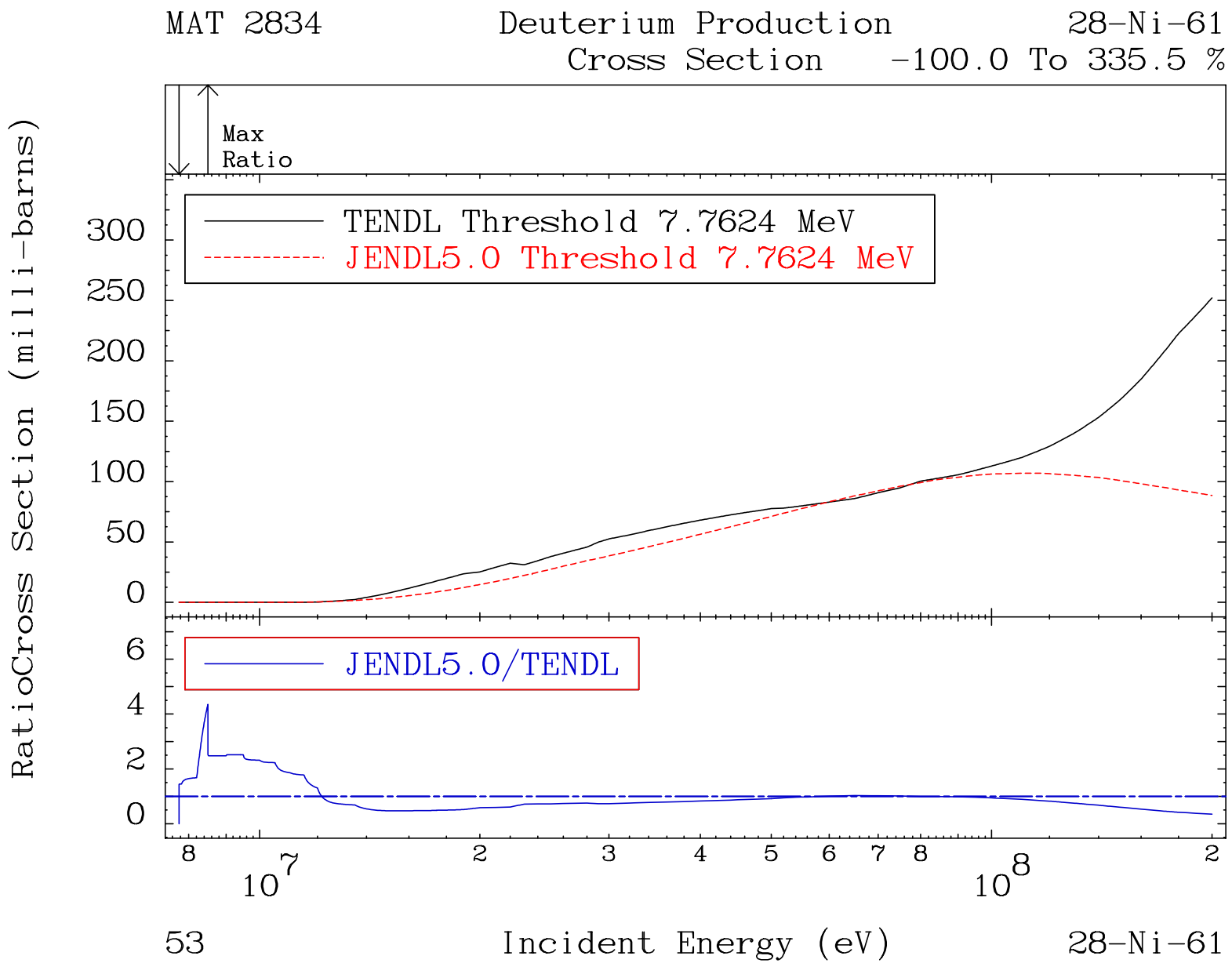

MAT 2834
(n,α)
28-Ni-61
Cross Section
-100.0 To 1438. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
28-Ni-61

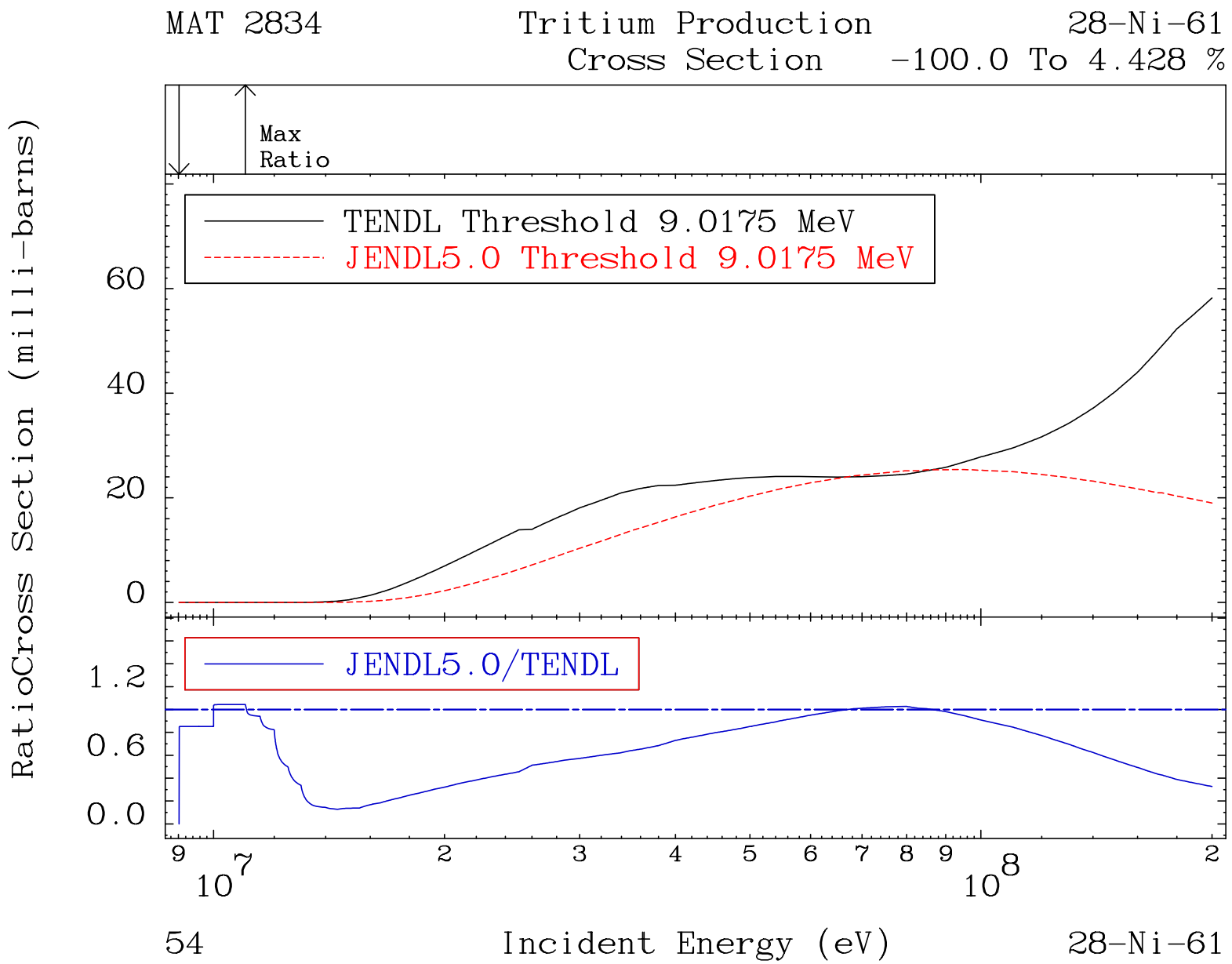

MAT 2834
(n,2α)
28-Ni-61
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.1325 MeV
JENDL5.0 Threshold 4.1330 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
200
150
100
50
0
400
200
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
28-Ni-61

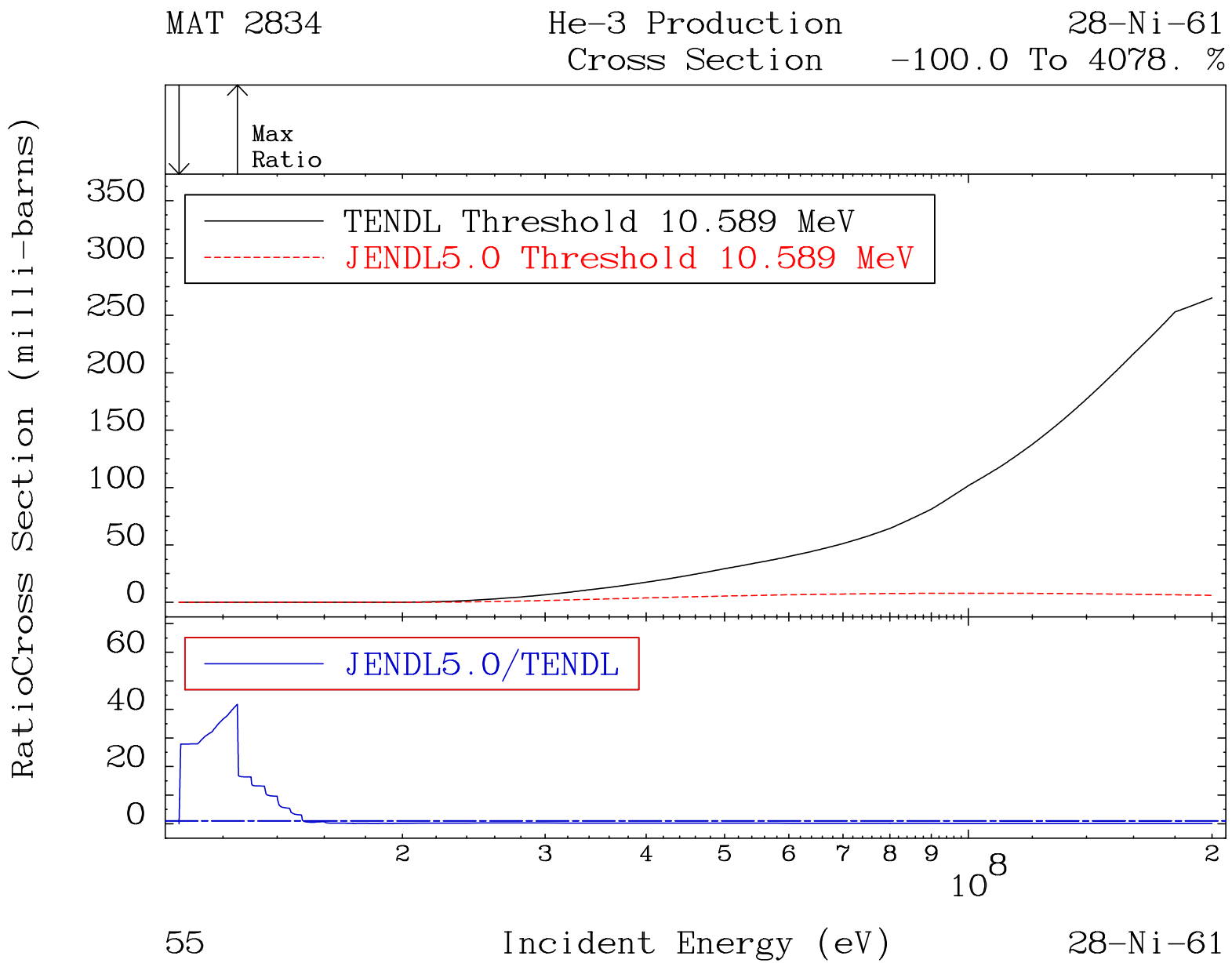

MAT 2834
(n,2p)
28-Ni-61
Cross Section
-100.0 To 150.3 %
Min Ratio
Max Ratio
TENDL Threshold 9.4697 MeV
JENDL5.0 Threshold 9.4697 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
28-Ni-61

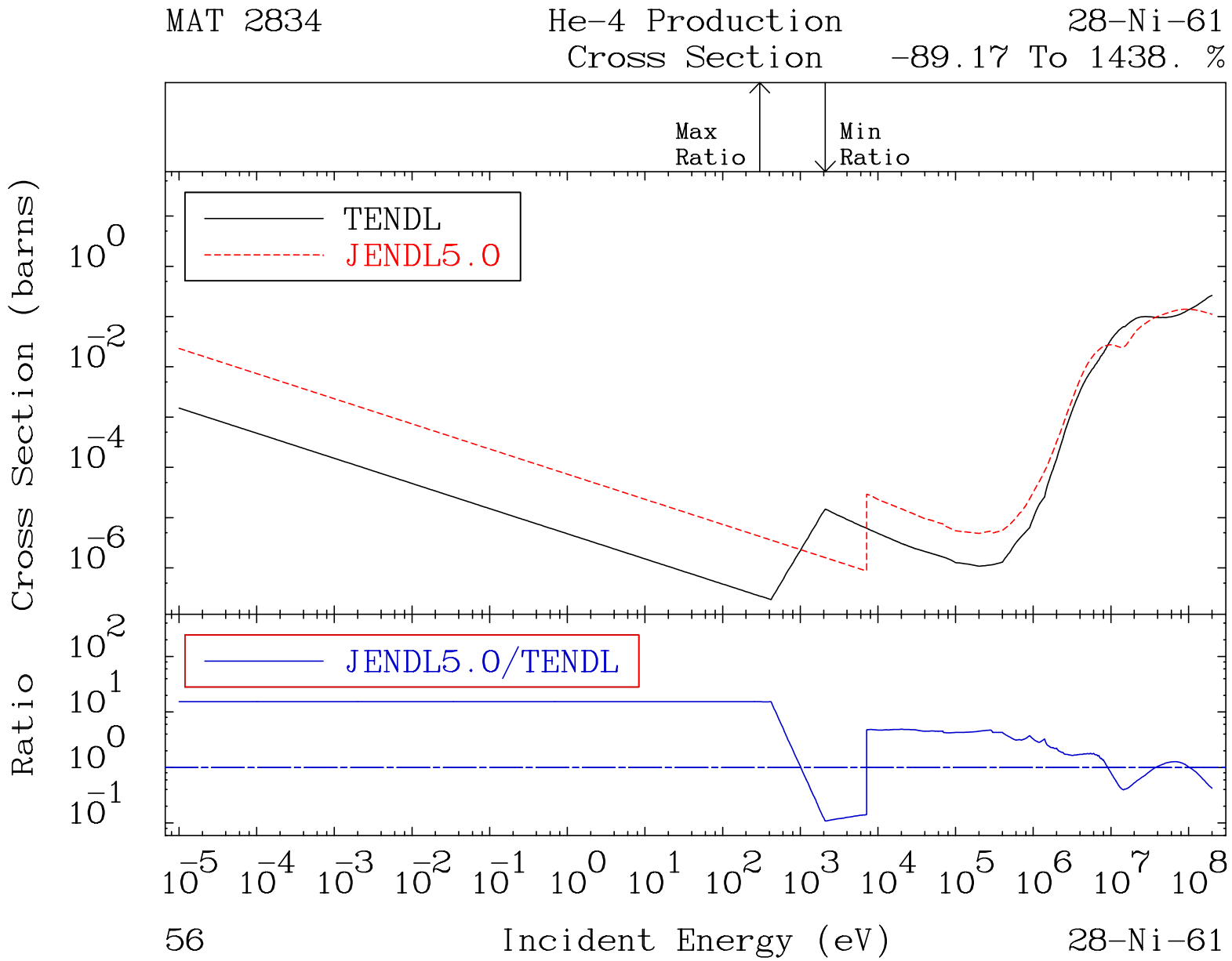

MAT 2834
(n,p) α
Cross Section
28-Ni-61
-100.0 To 3100. %
Max Ratio
Min Ratio
TENDL Threshold 8.5170 MeV
JENDL5.0 Threshold 8.5170 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
40
20
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
28-Ni-61

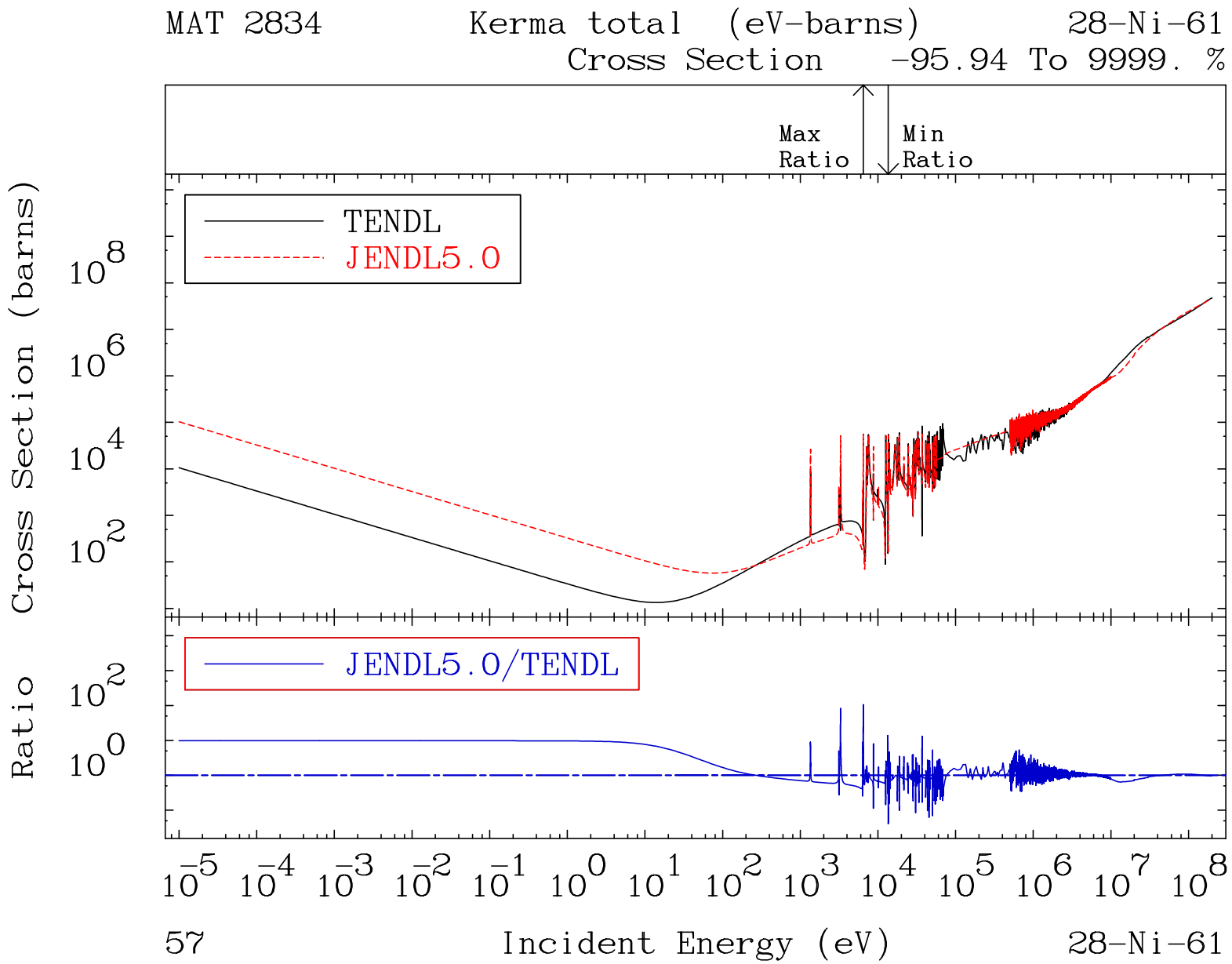

MAT 2834
Hydrogen Production
28-Ni-61
Cross Section
-100.0 To 45.62 %
Max
Ratio
TENDL Threshold 550.47 keV
JENDL5.0 Threshold 550.47 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^0
10^-3
10^-6
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
52
28-Ni-61

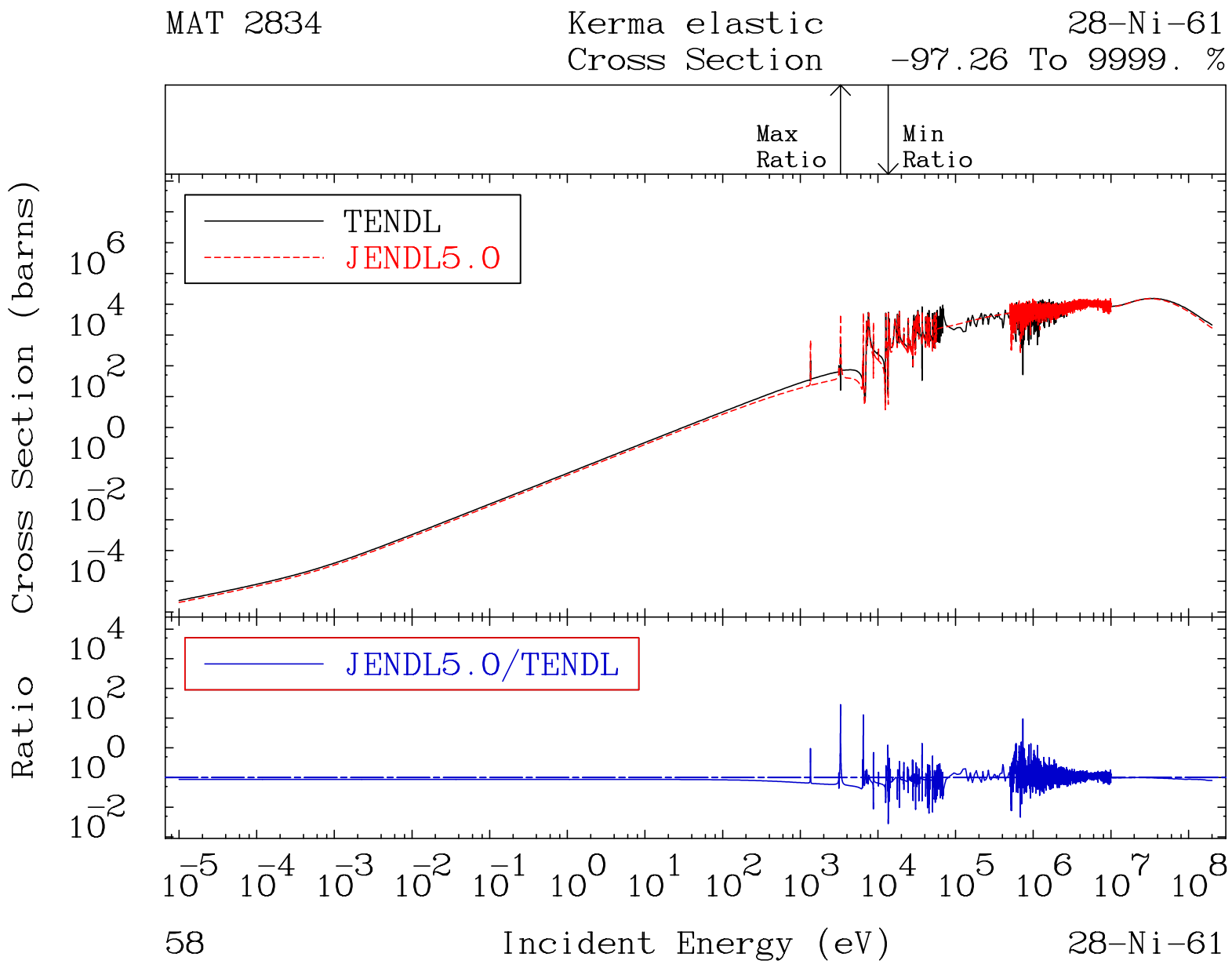

MAT 2834
Deuterium Production
28-Ni-61
Cross Section
-100.0 To 335.5 %
Max
Ratio
TENDL Threshold 7.7624 MeV
JENDL5.0 Threshold 7.7624 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
6
4
2
0
8
2
3
4
5
6
7
8
2
10^7
10^8
53
Incident Energy (eV)
28-Ni-61

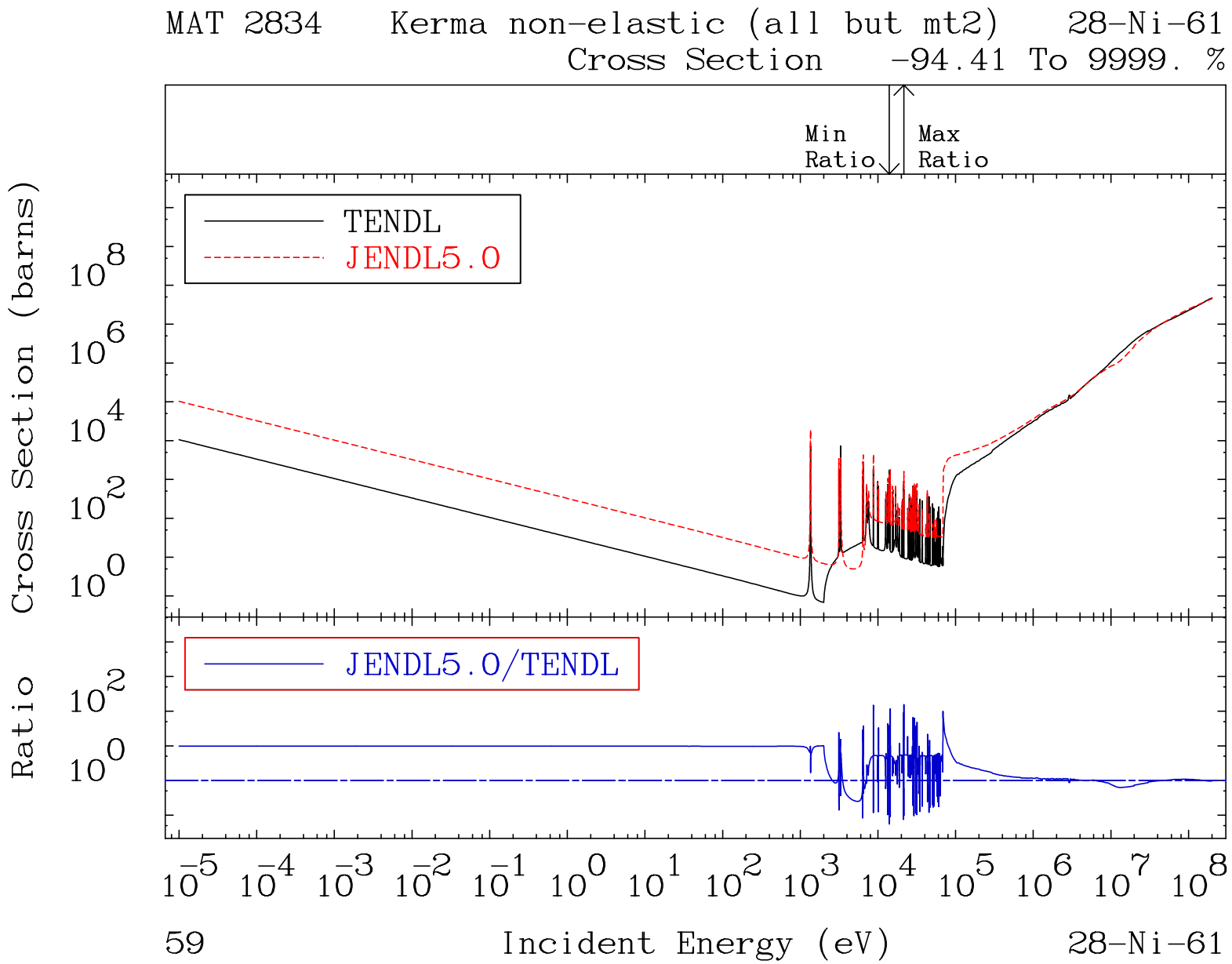

MAT 2834
Tritium Production
28-Ni-61
Cross Section
-100.0 To 4.428 %
Max
Ratio
TENDL Threshold 9.0175 MeV
JENDL5.0 Threshold 9.0175 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
28-Ni-61

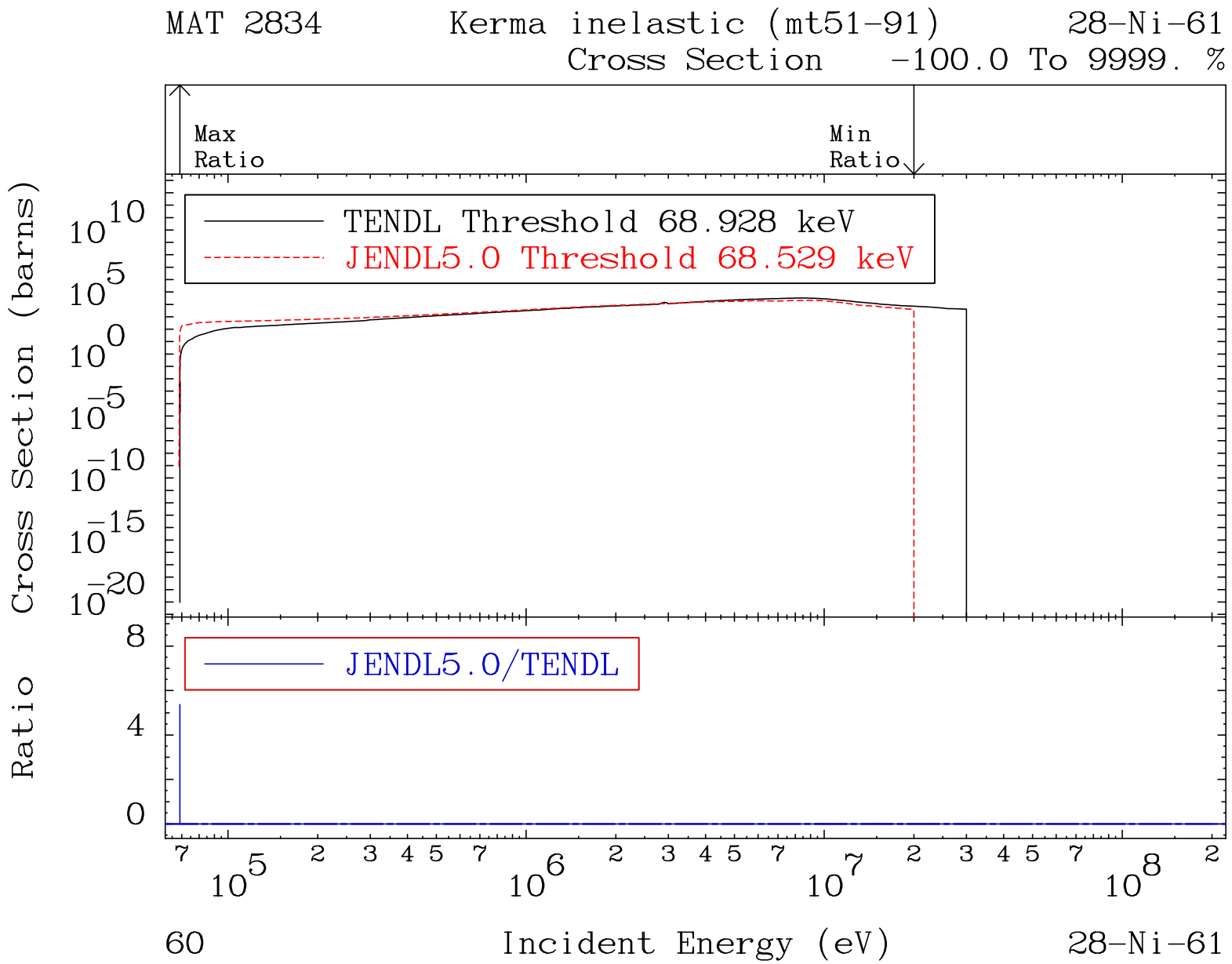

MAT 2834
He-3 Production
28-Ni-61
Cross Section
-100.0 To 4078. %
Max
Ratio
TENDL Threshold 10.589 MeV
JENDL5.0 Threshold 10.589 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
60
40
20
0
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
28-Ni-61

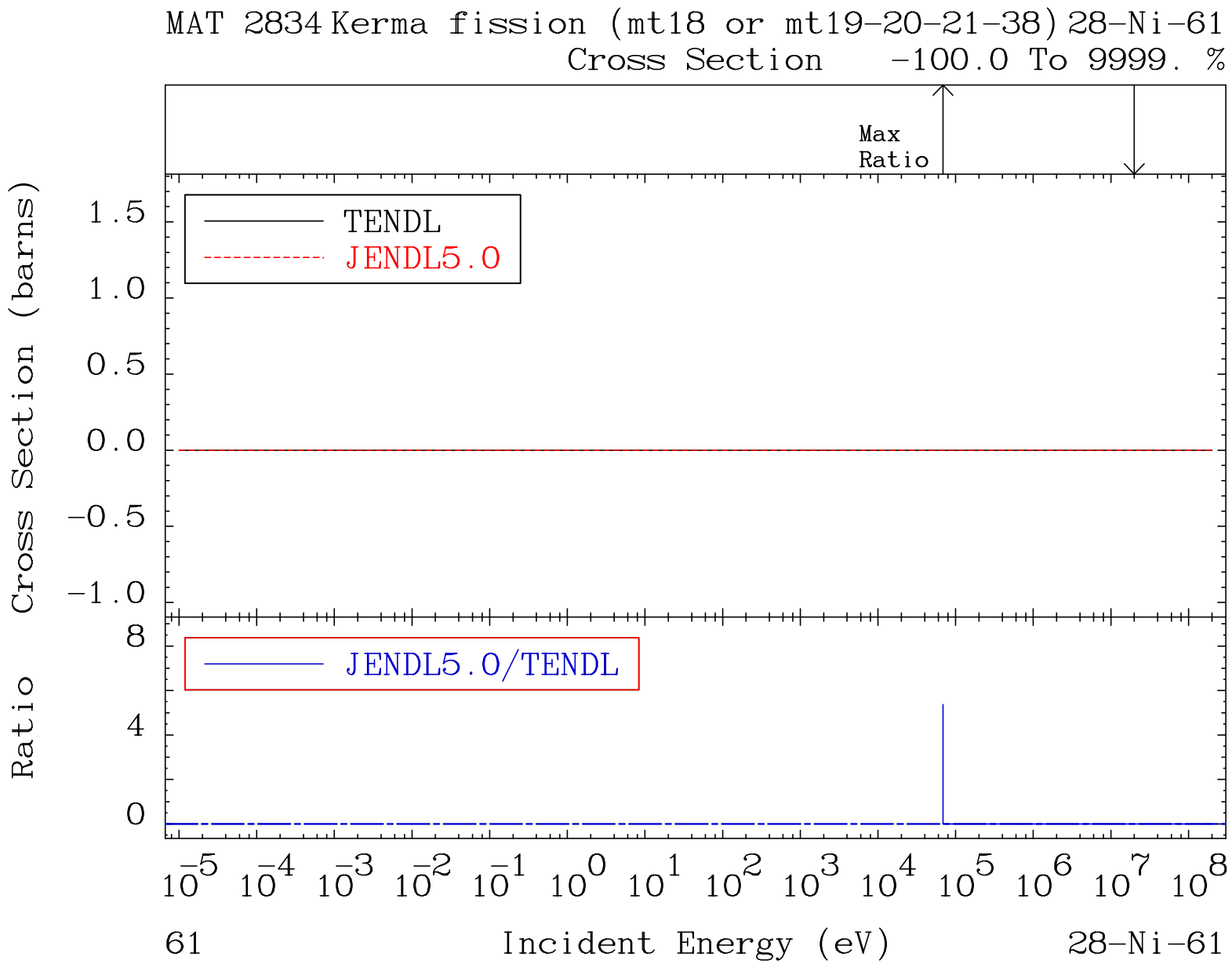

MAT 2834
He-4 Production
Cross Section
28-Ni-61
-89.17 To 1438. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
28-Ni-61

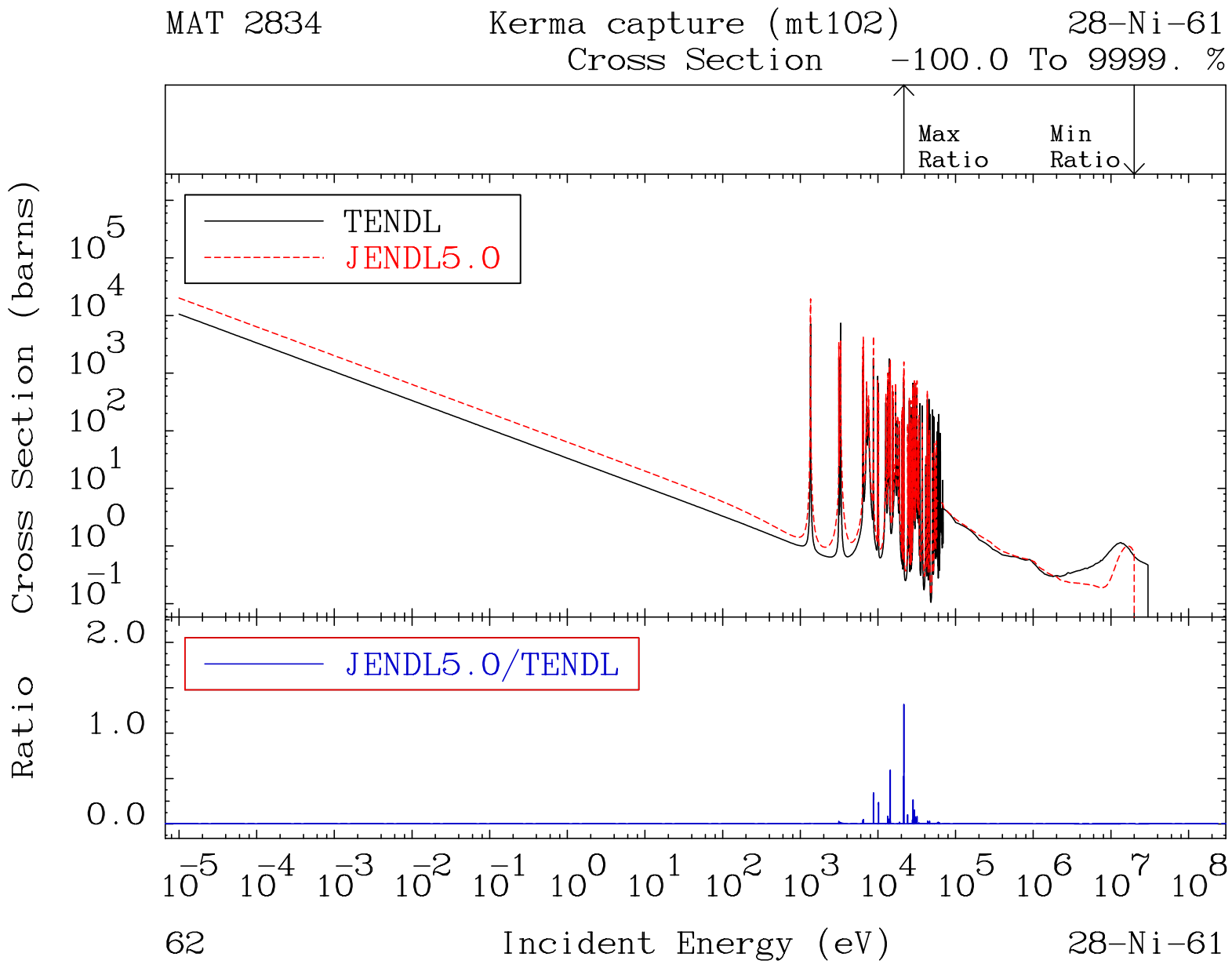

MAT 2834
Kerma total (eV-barns)
28-Ni-61
Cross Section -95.94 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
28-Ni-61

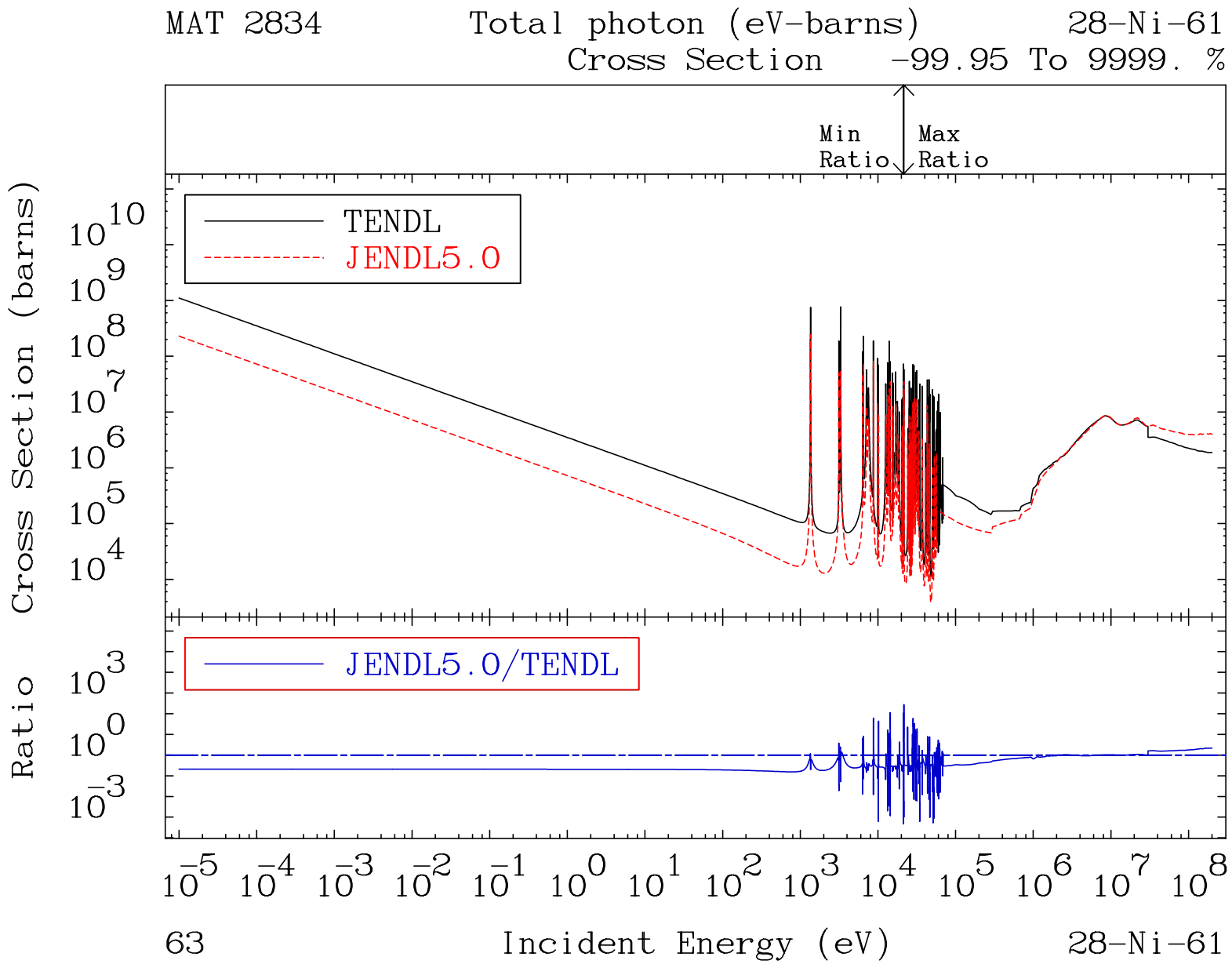

MAT 2834
Kerma elastic
Cross Section
28-Ni-61
-97.26 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
28-Ni-61

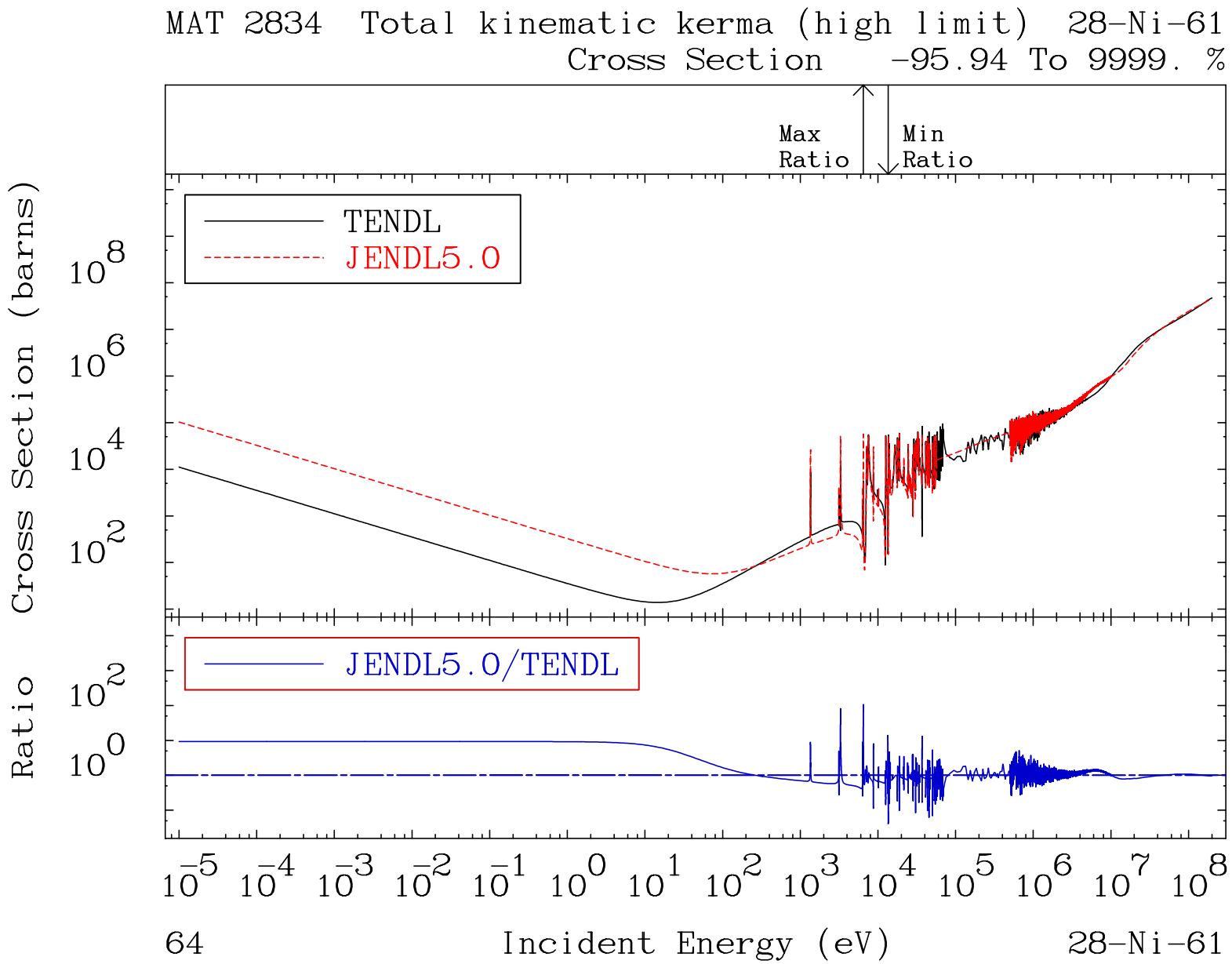

MAT 2834 Kerma non-elastic (all but mt2) 28-Ni-61
Cross Section -94.41 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
28-Ni-61

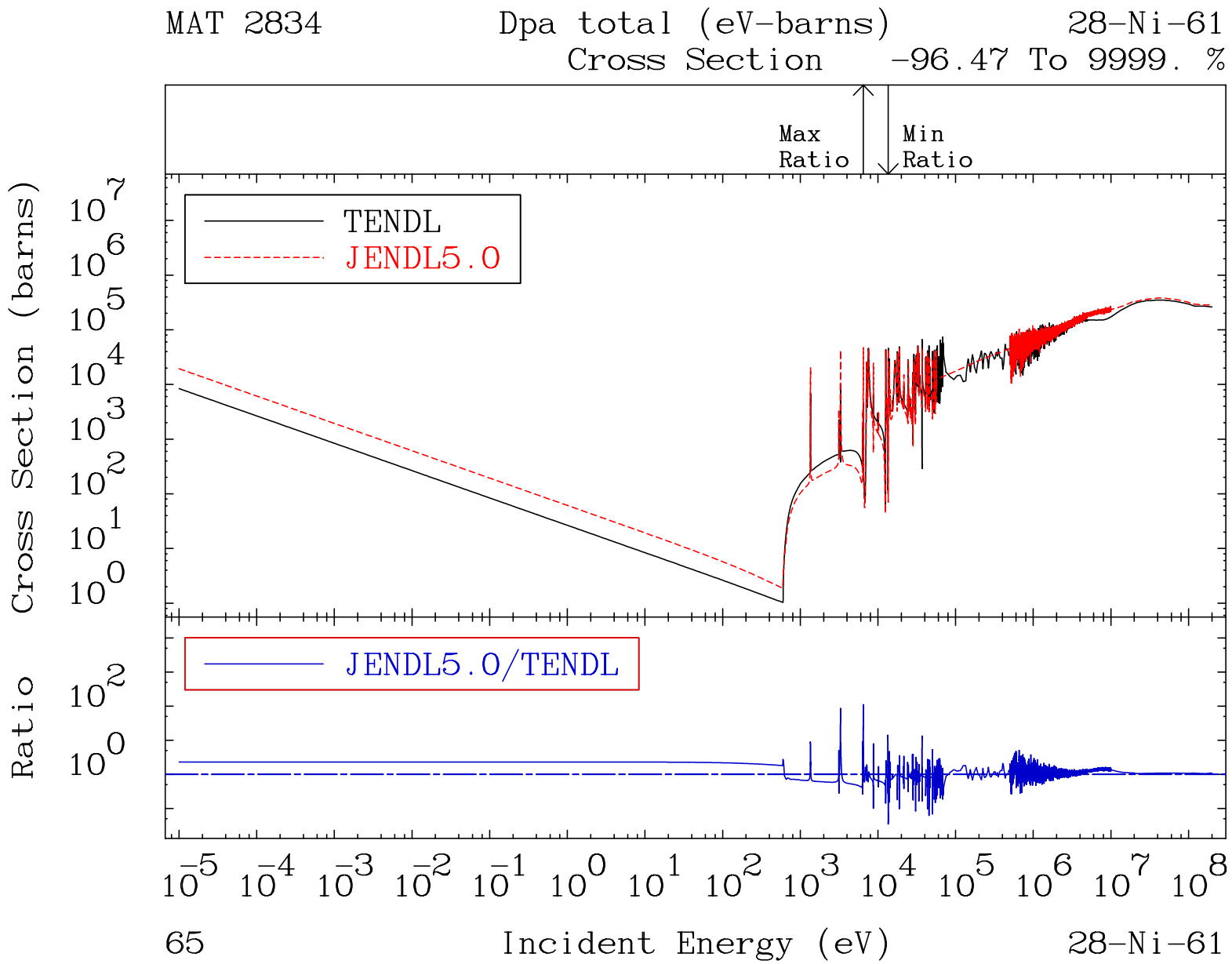

MAT 2834
Kerma inelastic (mt51-91)
28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 68.928 keV
JENDL5.0 Threshold 68.529 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
28-Ni-61

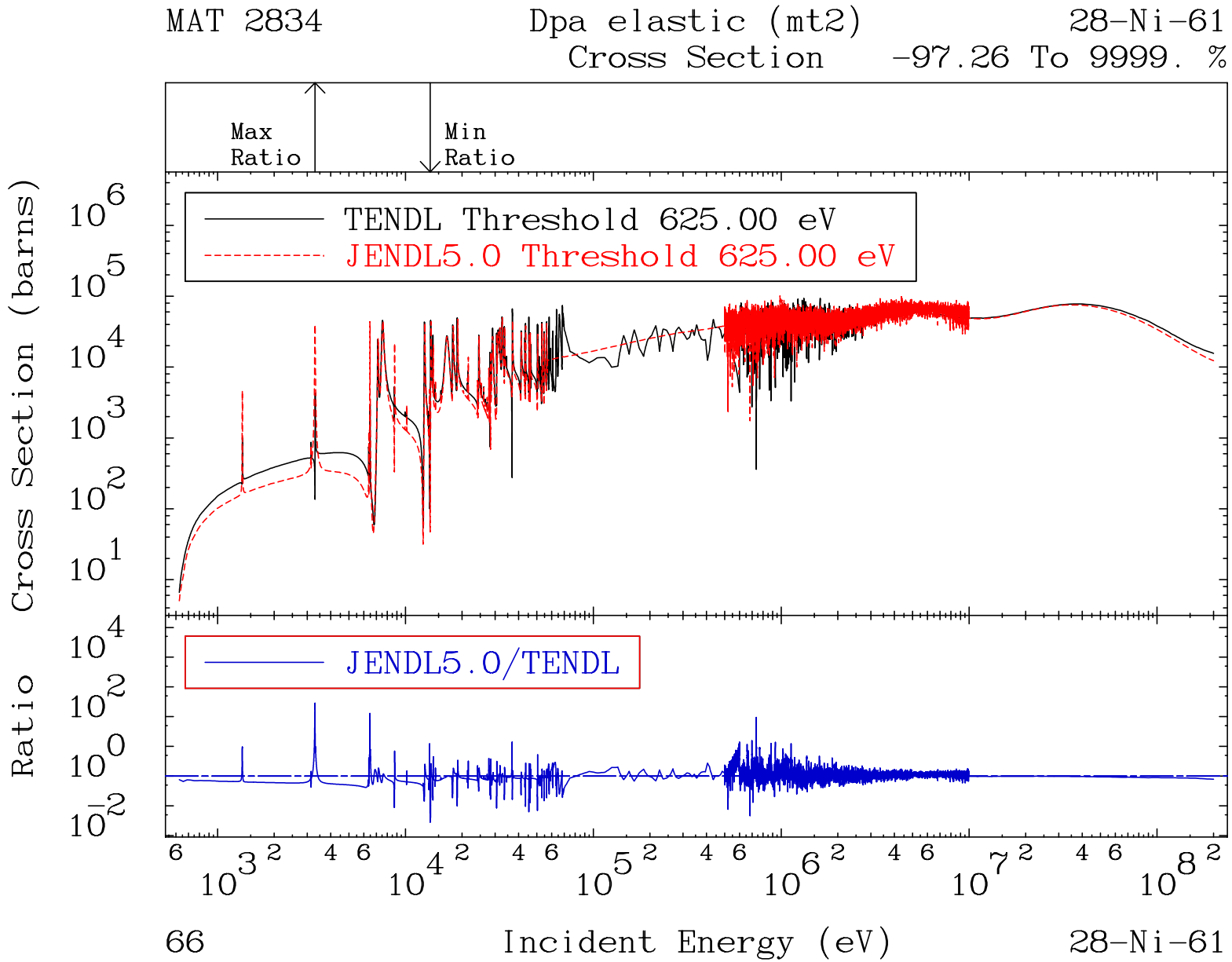

MAT 2834 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-61
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
8
4
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
61
Incident Energy (eV)
28-Ni-61

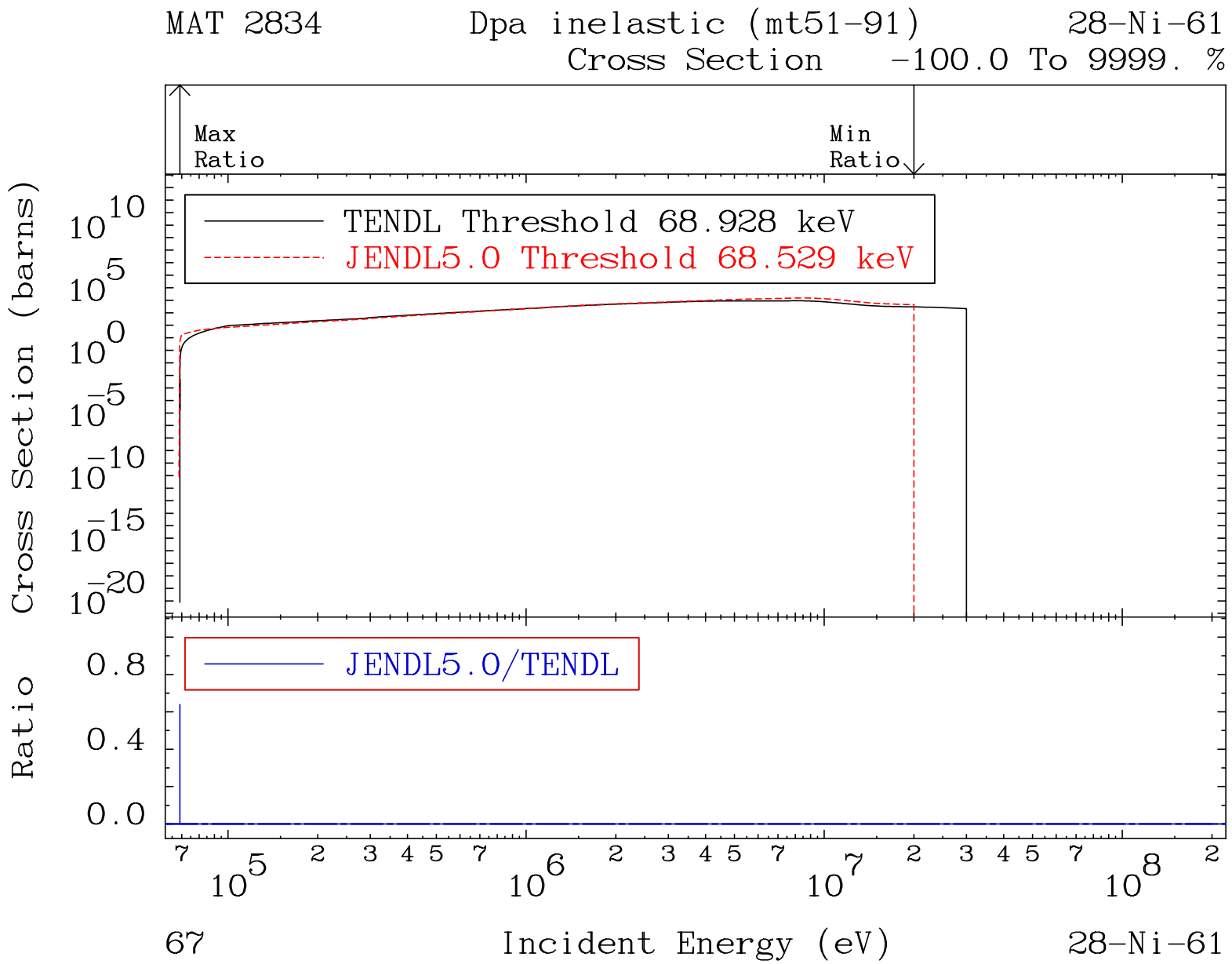

MAT 2834
Kerma capture (mt102)
28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
28-Ni-61

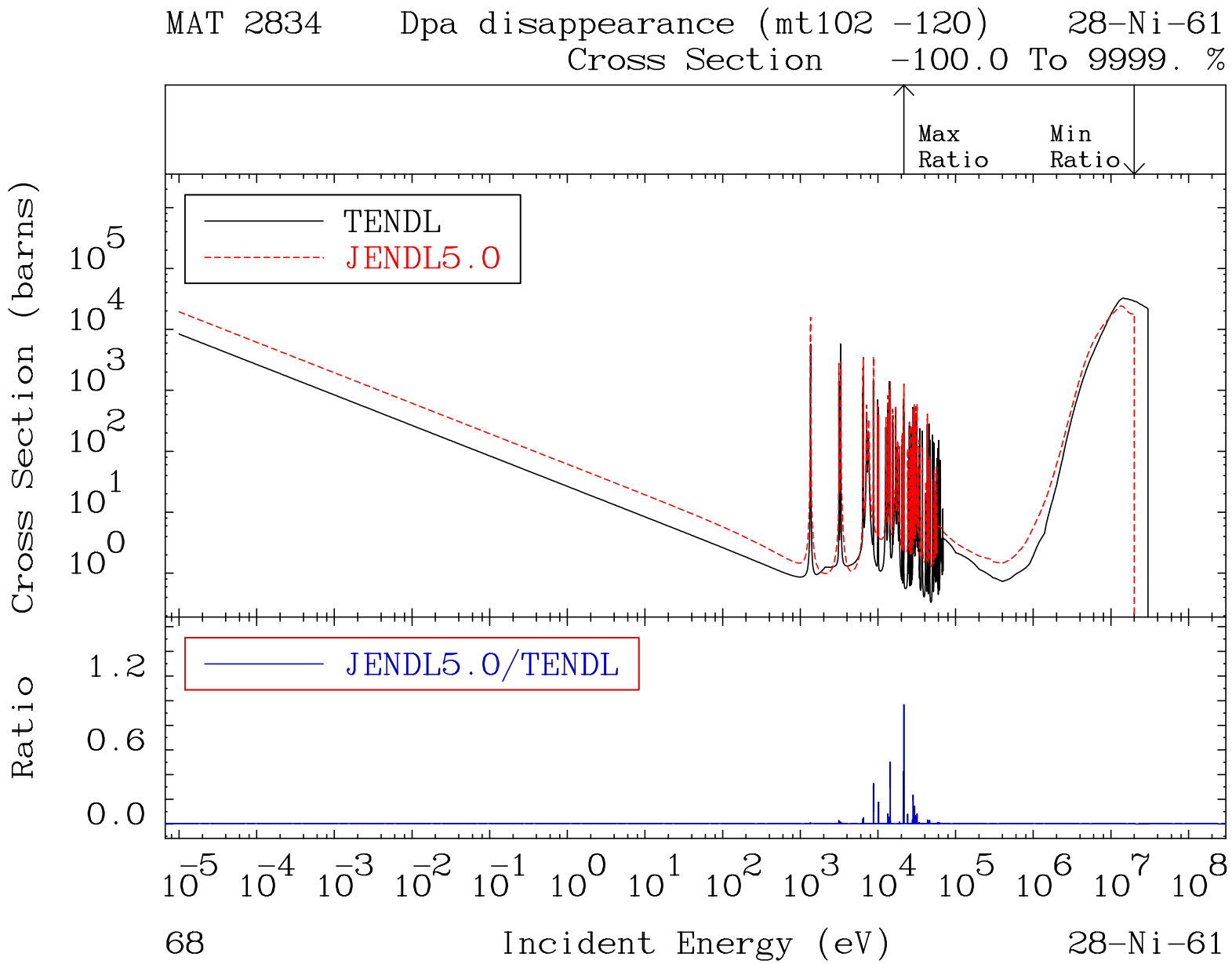

MAT 2834
Total photon (eV-barns)
28-Ni-61
Cross Section -99.95 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
63
28-Ni-61

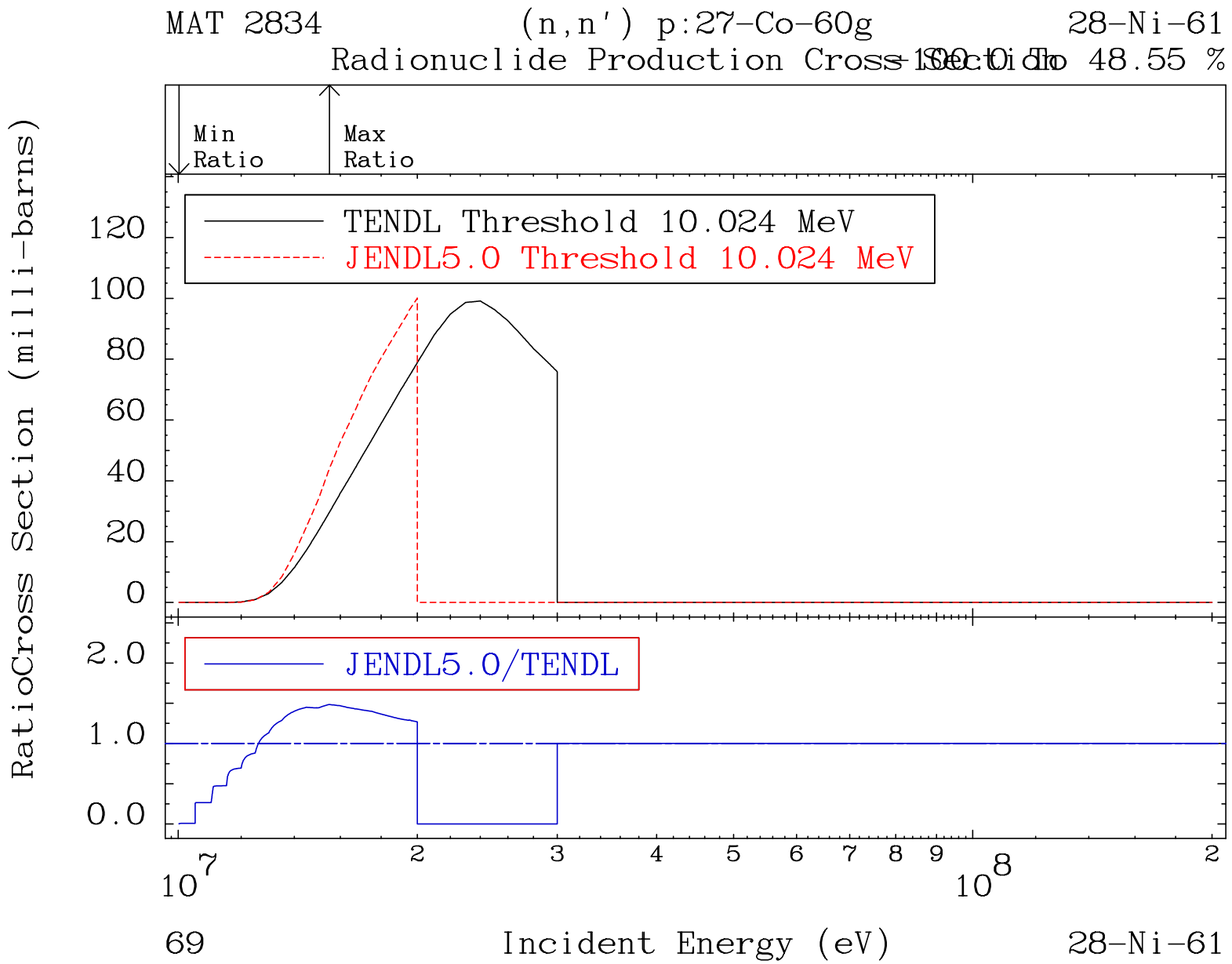

MAT 2834 Total kinematic kerma (high limit) 28-Ni-61
Cross Section -95.94 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
64
28-Ni-61

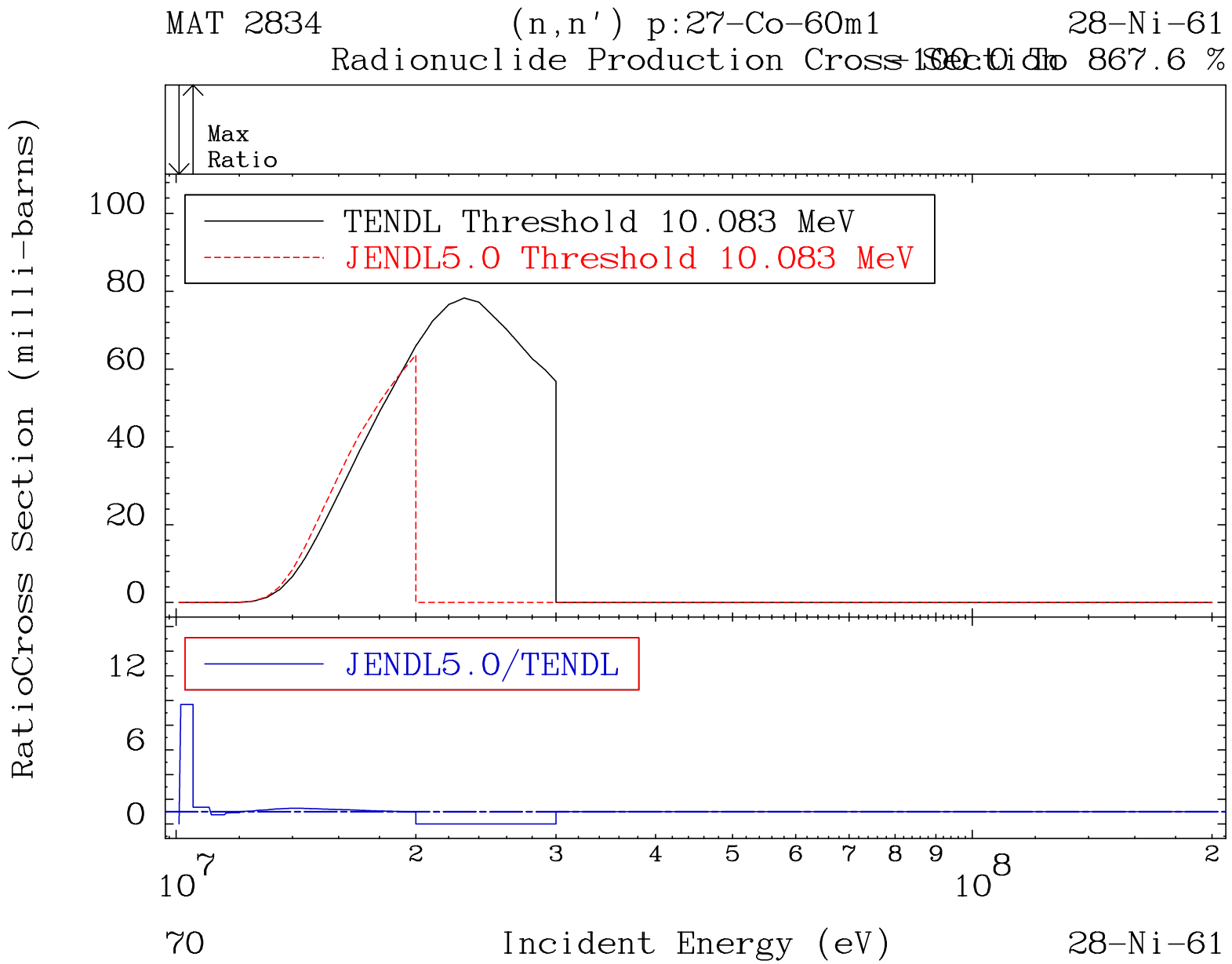

MAT 2834
Dpa total (eV-barns)
28-Ni-61
Cross Section -96.47 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
65
28-Ni-61

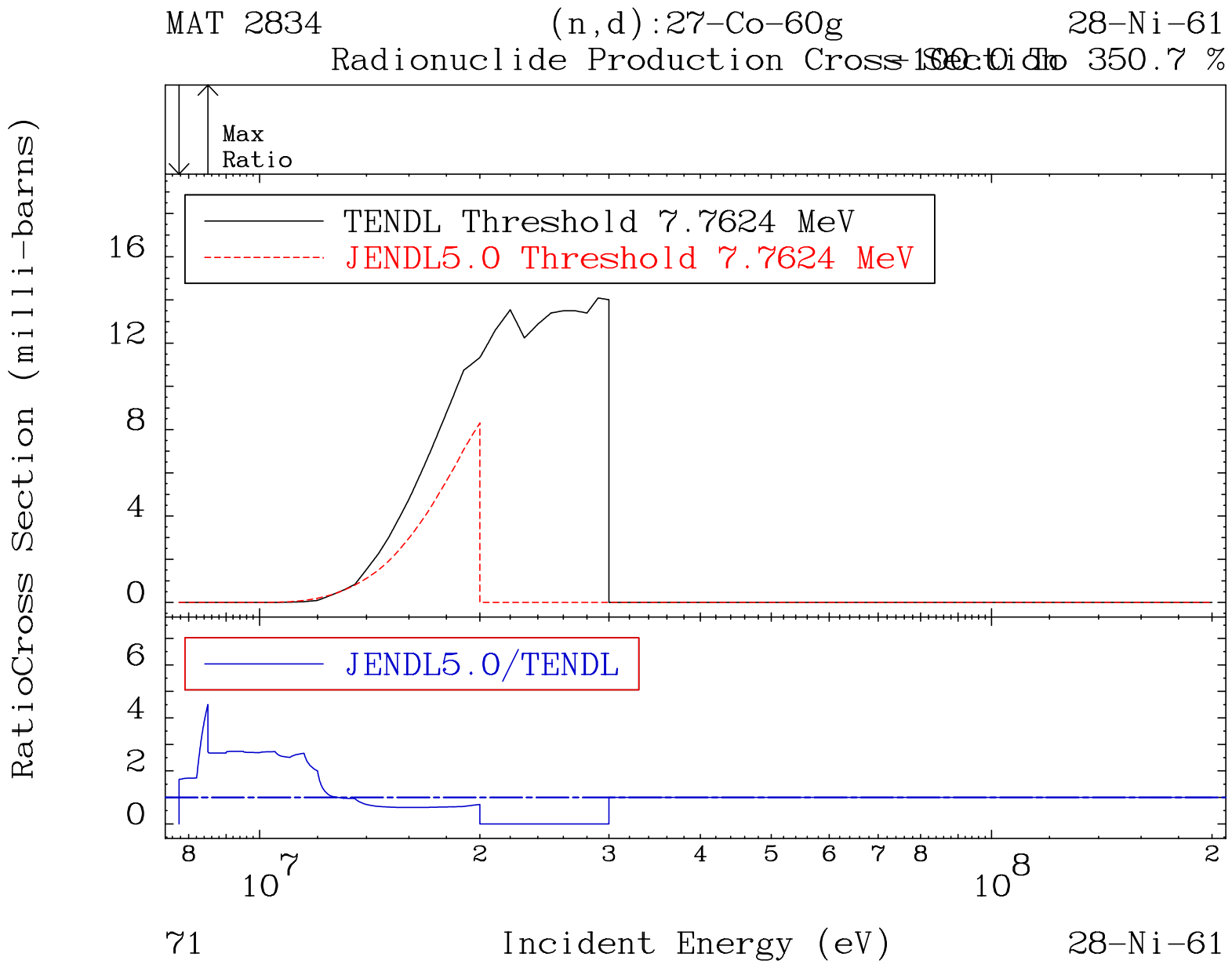

MAT 2834
Dpa elastic (mt2)
Cross Section
28-Ni-61
-97.26 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 625.00 eV
JENDL5.0 Threshold 625.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
28-Ni-61

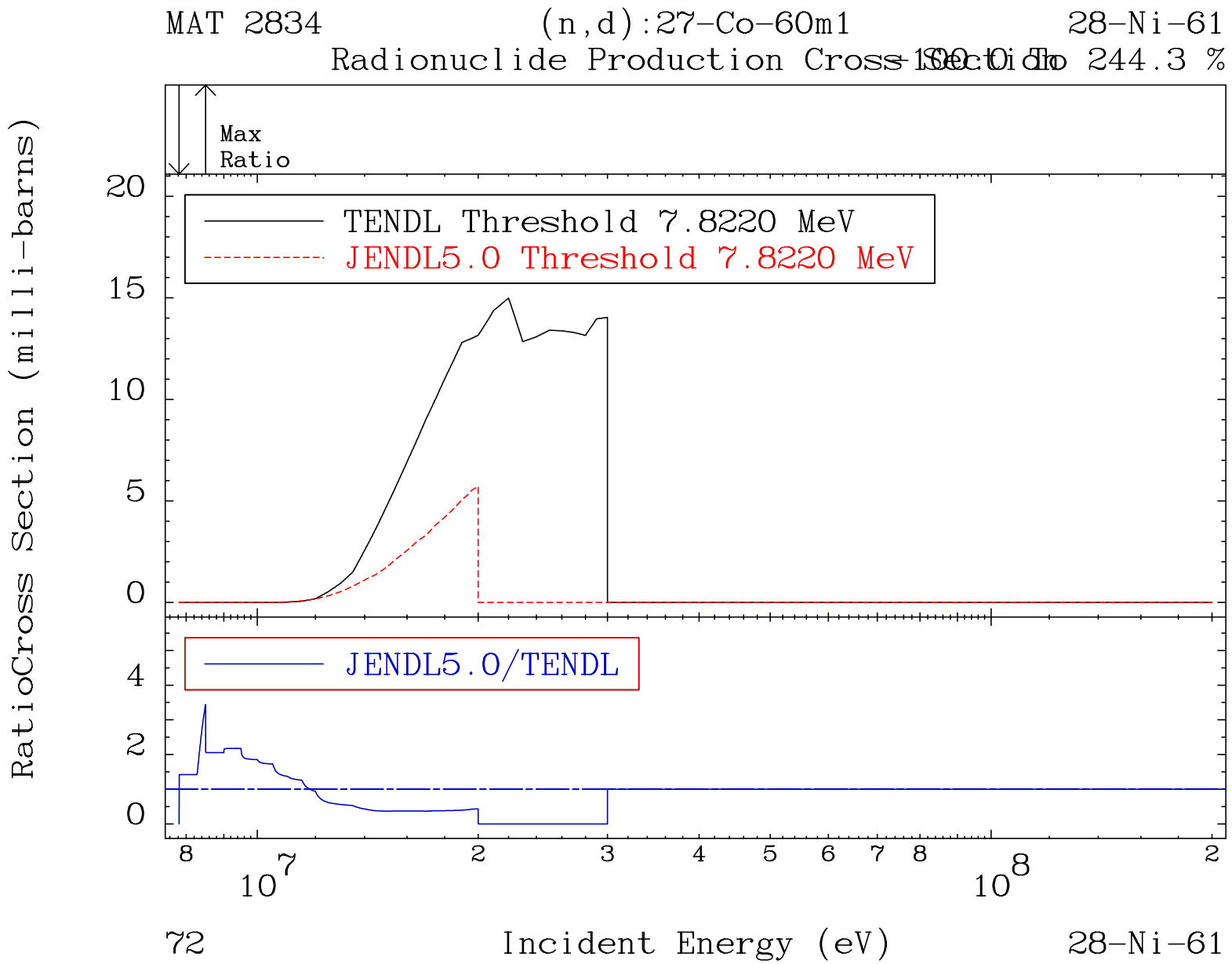

MAT 2834
Dpa inelastic (mt51-91)
28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 68.928 keV
JENDL5.0 Threshold 68.529 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
28-Ni-61

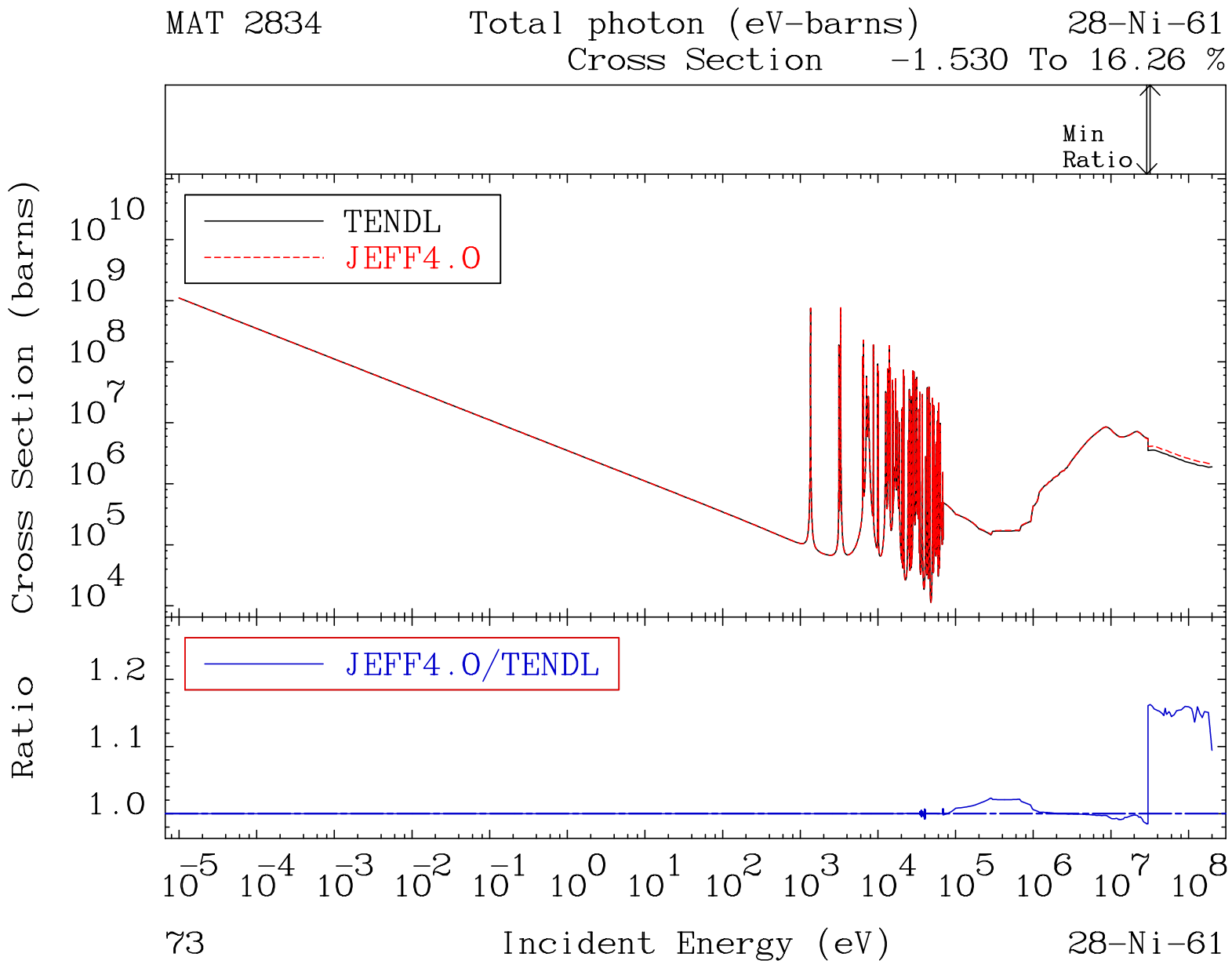

MAT 2834 Dpa disappearance (mt102 -120) 28-Ni-61
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
68
28-Ni-61

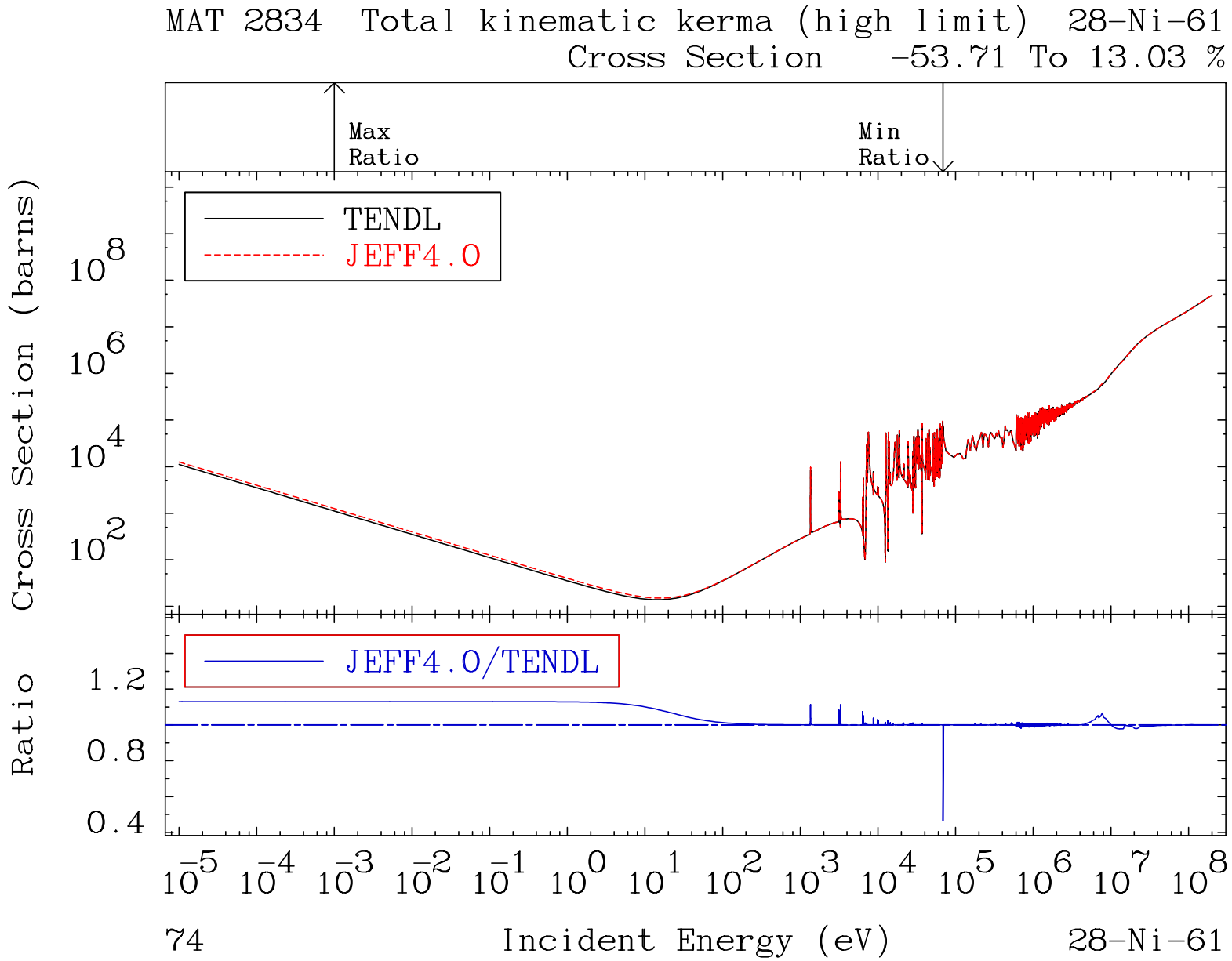

MAT 2834
(n,n') p:27-Co-60g
28-Ni-61
Radionuclide Production Cross Section To 48.55 %
Min Ratio
Max Ratio
TENDL Threshold 10.024 MeV
JENDL5.0 Threshold 10.024 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
28-Ni-61

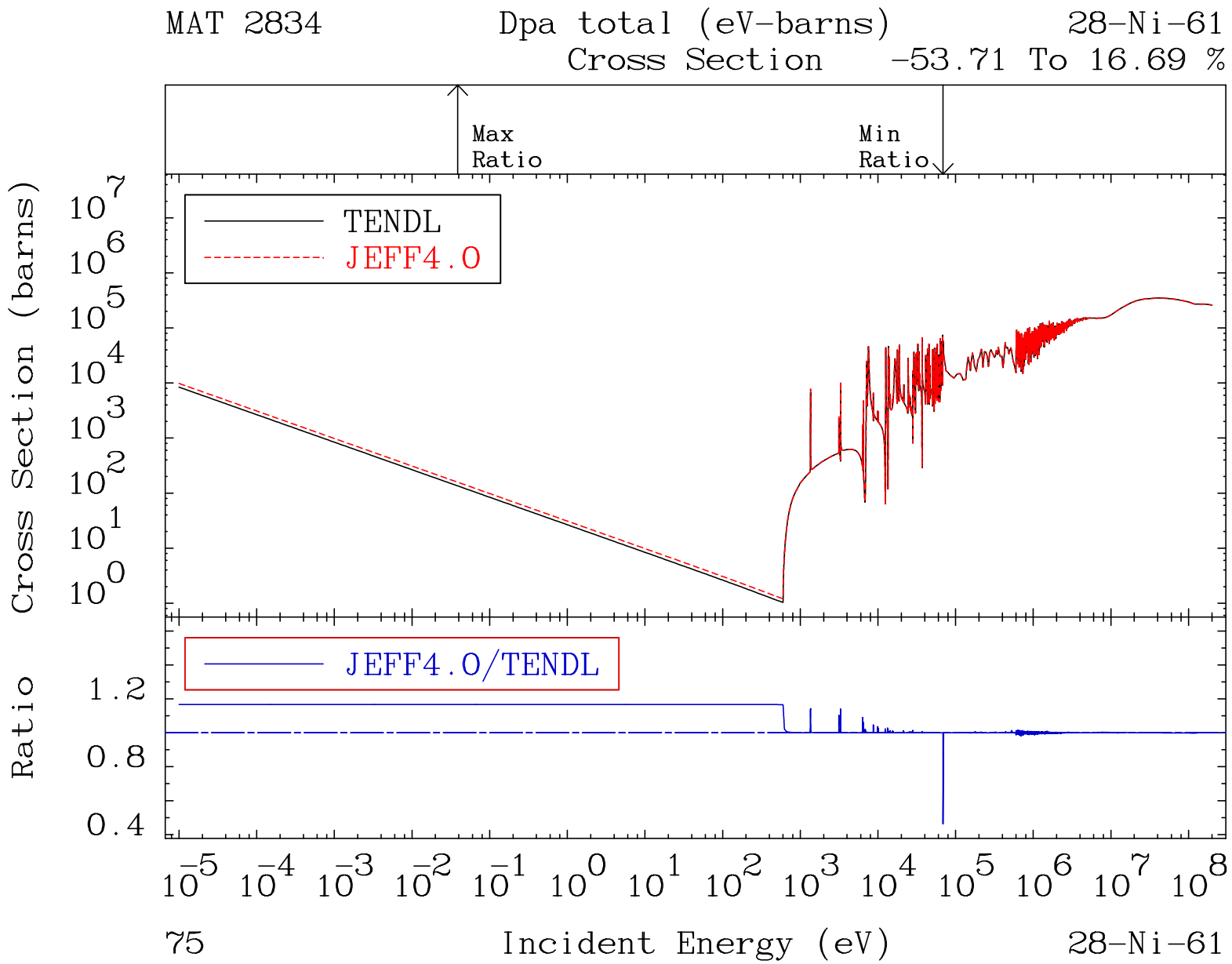

MAT 2834
(n,n') p:27-Co-60m1
28-Ni-61
Radionuclide Production Cross Section To 867.6 %
Max
Ratio
TENDL Threshold 10.083 MeV
JENDL5.0 Threshold 10.083 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
12
6
0
10^7
2
3
4
5
6
7
8
9
10^8
2
70
Incident Energy (eV)
28-Ni-61

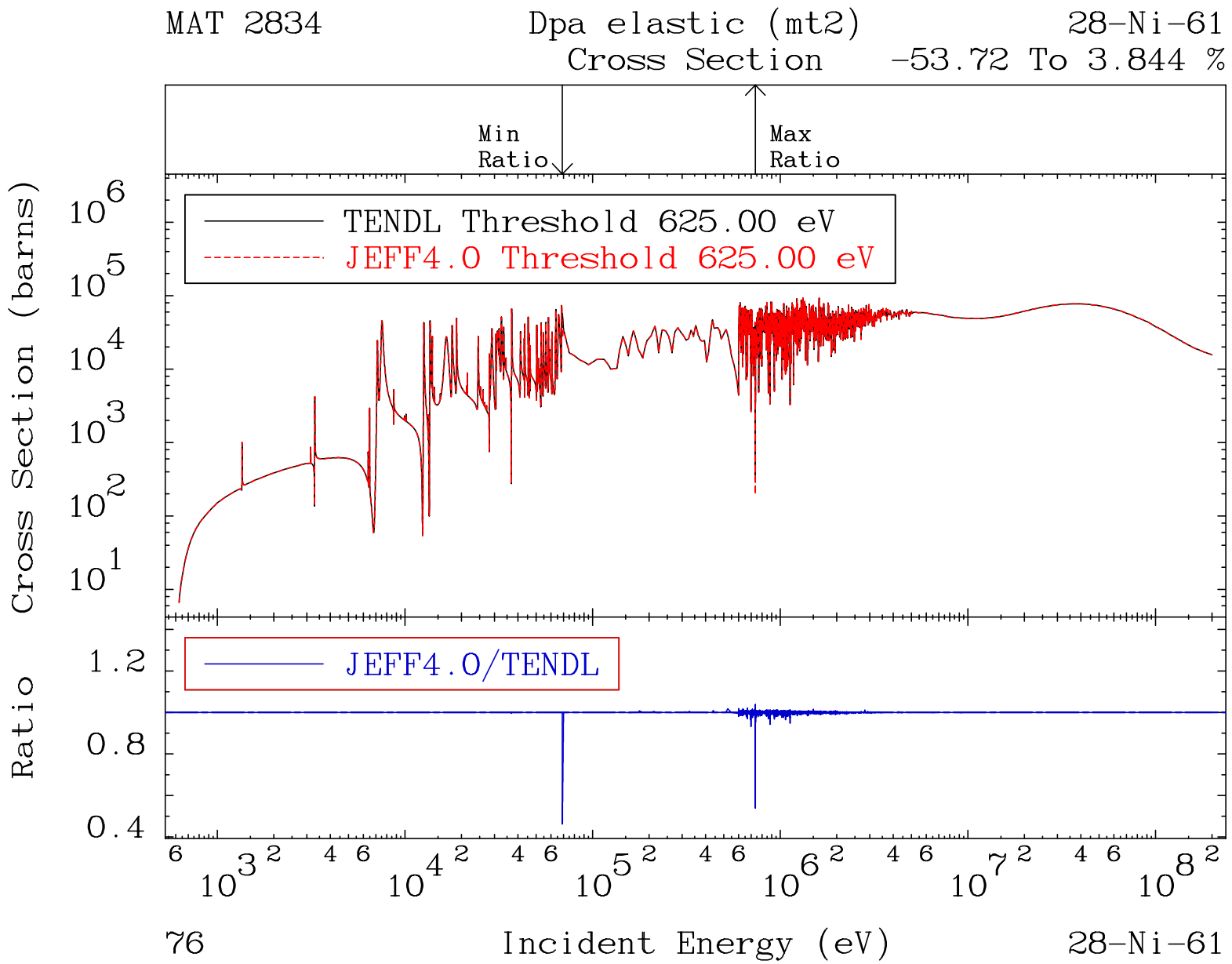

MAT 2834
(n,d):27-Co-60g
28-Ni-61
Radionuclide Production Cross Section To 350.7 %
Max
Ratio
TENDL Threshold 7.7624 MeV
JENDL5.0 Threshold 7.7624 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
28-Ni-61

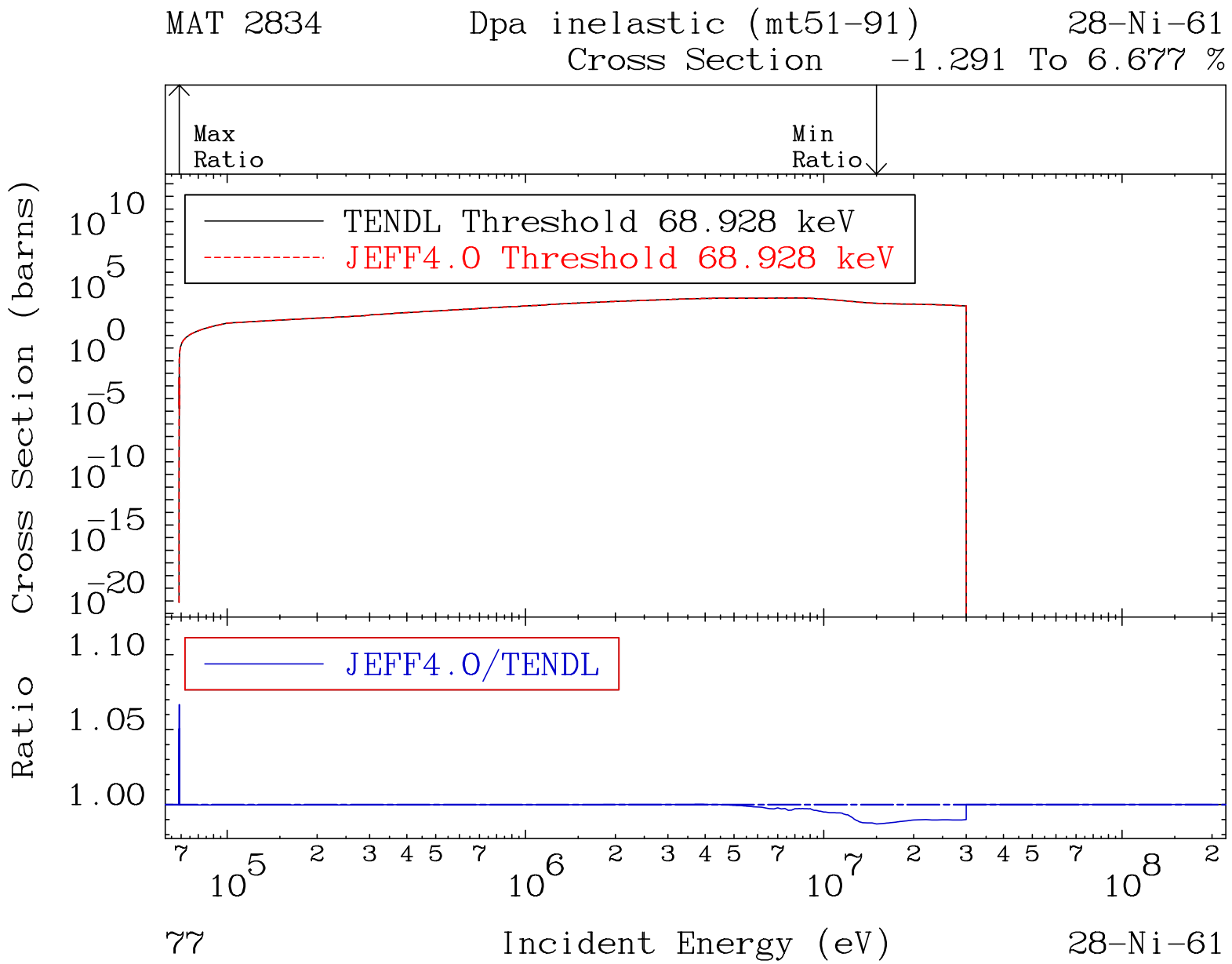

MAT 2834
(n,d):27-Co-60m1
28-Ni-61
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.8220 MeV
JENDL5.0 Threshold 7.8220 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
28-Ni-61

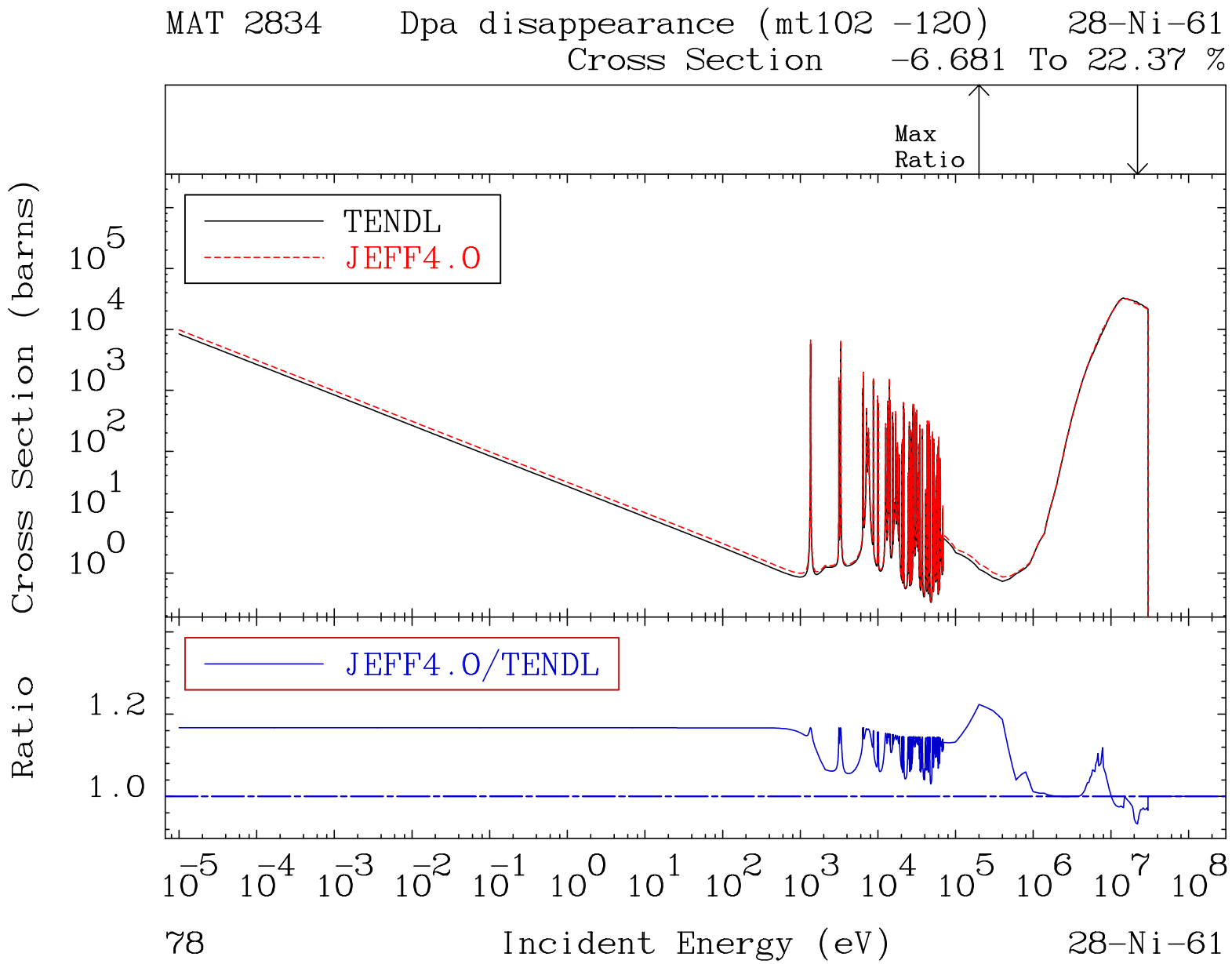

MAT 2834
Total photon (eV-barns)
28-Ni-61
Cross Section -1.530 To 16.26 %
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
73
28-Ni-61

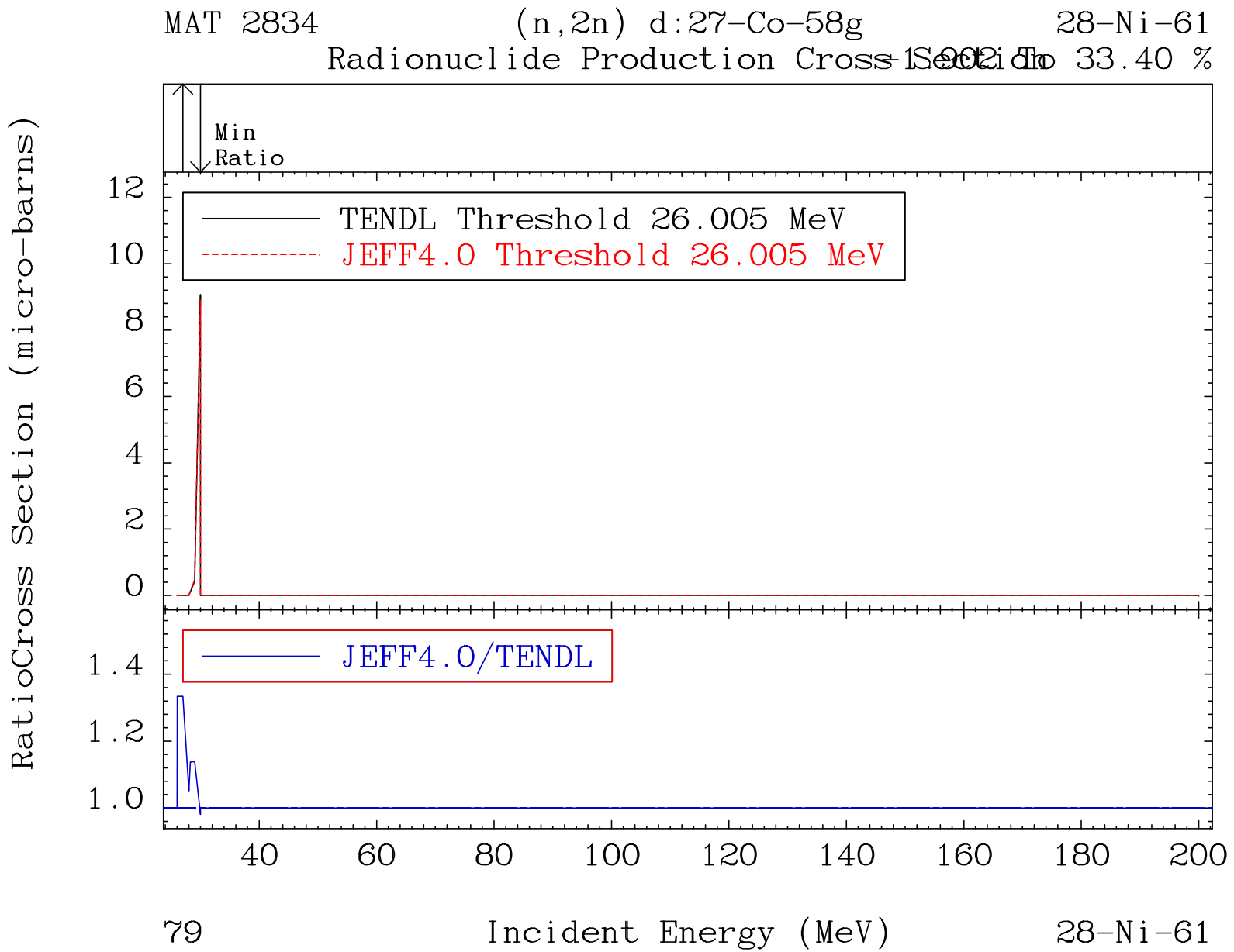

MAT 2834 Total kinematic kerma (high limit) 28-Ni-61
Cross Section -53.71 To 13.03 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
28-Ni-61

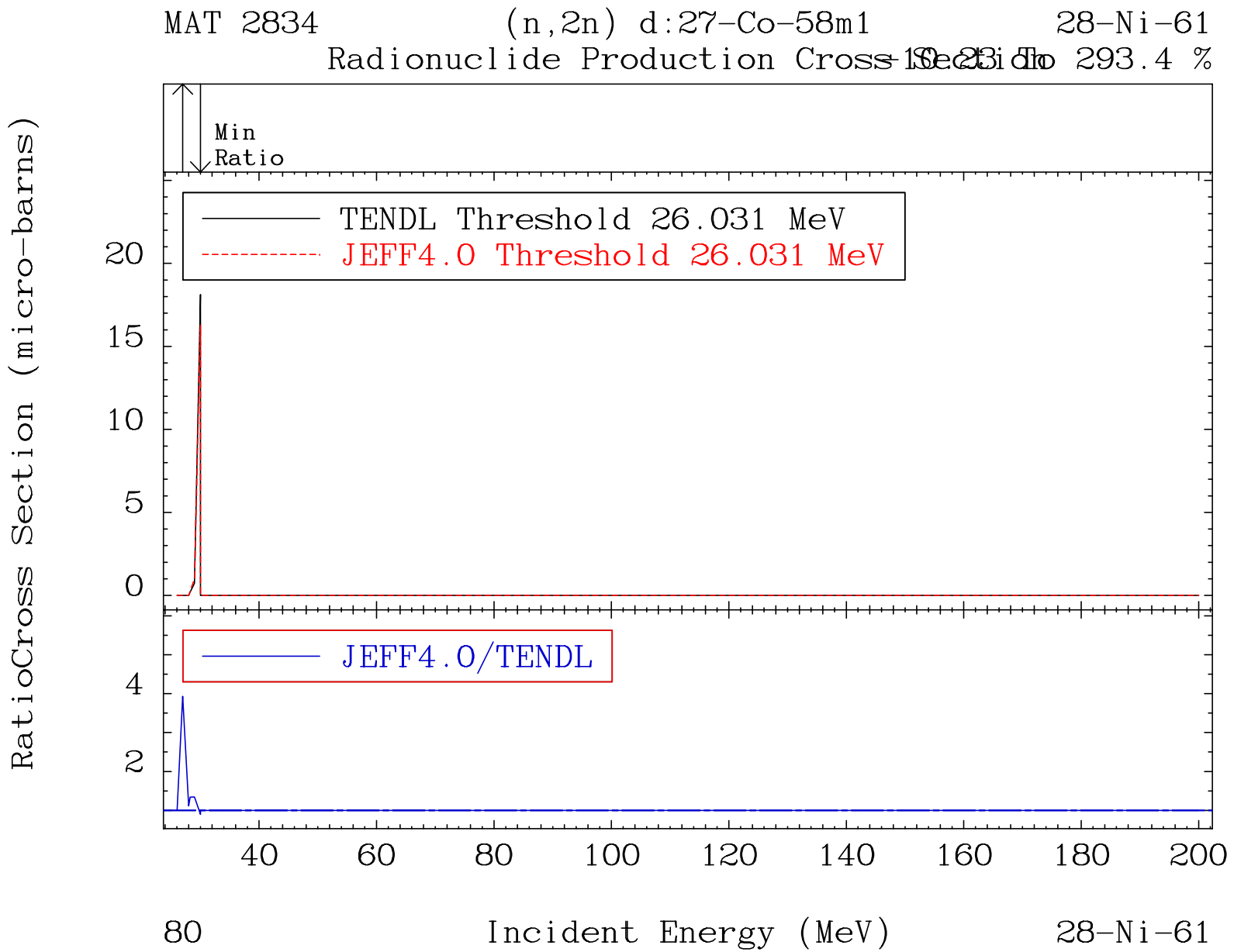

MAT 2834
Dpa total (eV-barns)
28-Ni-61
Cross Section -53.71 To 16.69 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
75
28-Ni-61

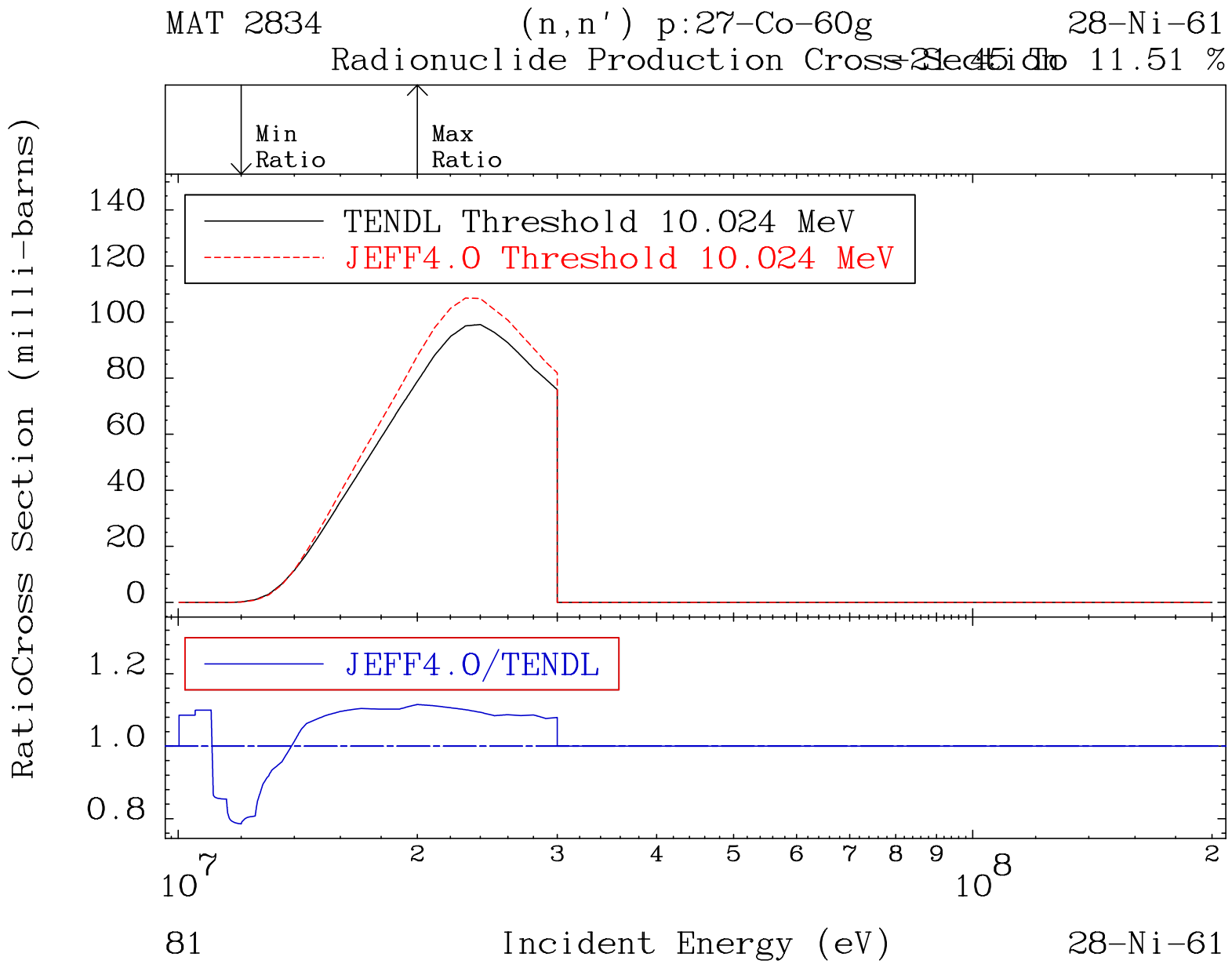

MAT 2834
Dpa elastic (mt2)
Cross Section
28-Ni-61
-53.72 To 3.844 %
Min Ratio
Max Ratio
TENDL Threshold 625.00 eV
JEFF4.0 Threshold 625.00 eV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
28-Ni-61

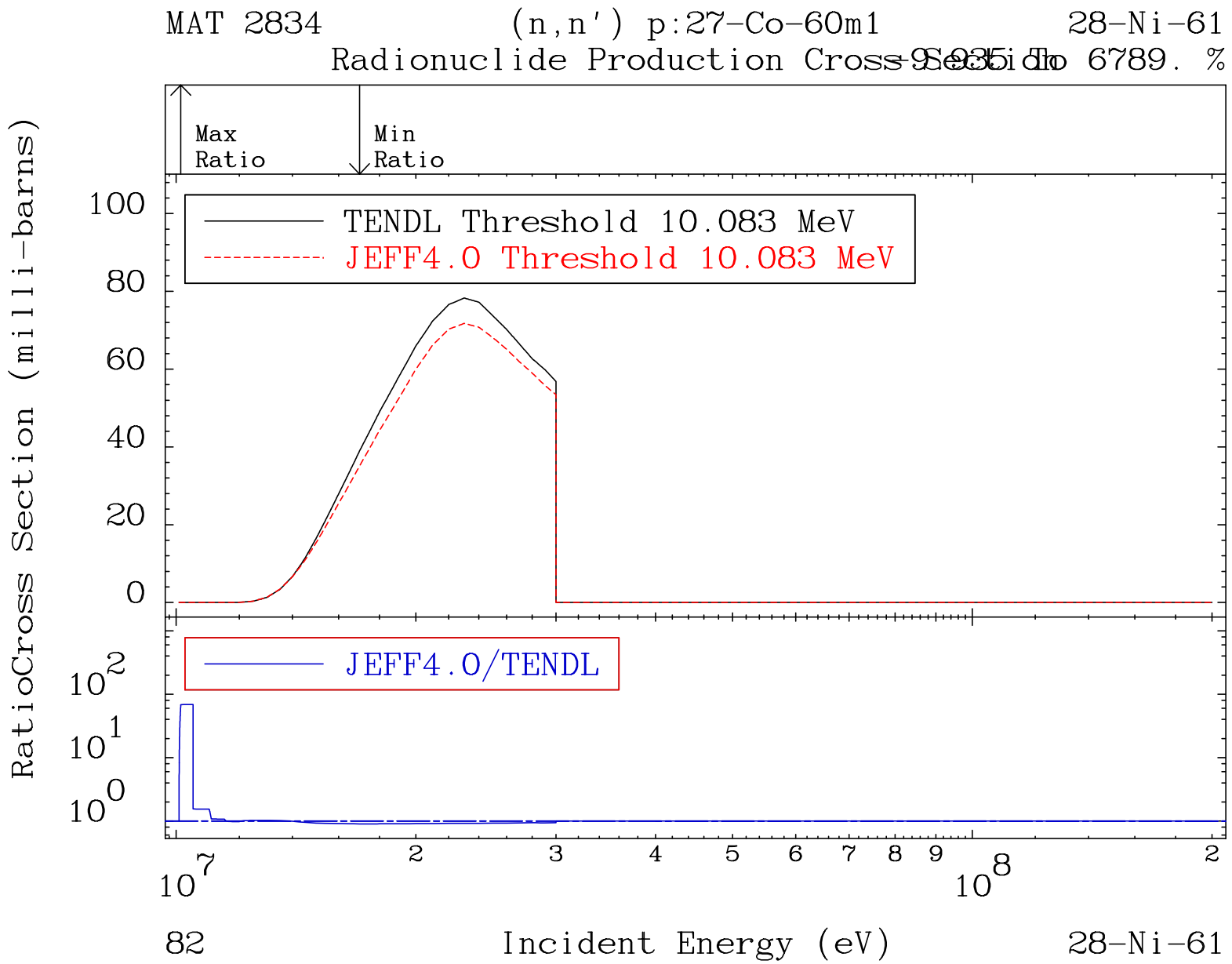

MAT 2834
Dpa inelastic (mt51-91)
28-Ni-61
Cross Section
-1.291 To 6.677 %
Max Ratio
Min Ratio
TENDL Threshold 68.928 keV
JEFF4.0 Threshold 68.928 keV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
28-Ni-61

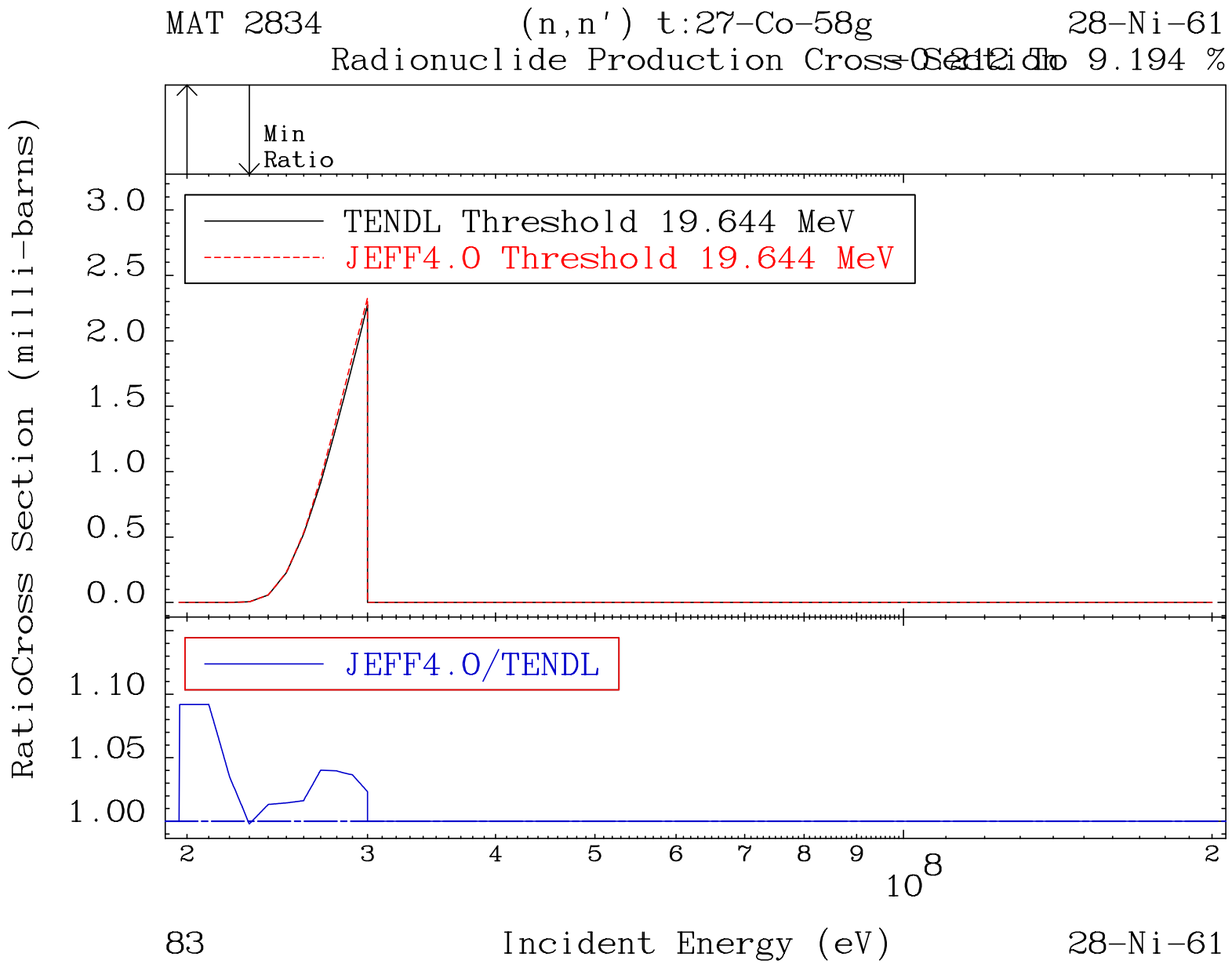

MAT 2834 Dpa disappearance (mt102 -120) 28-Ni-61
Cross Section -6.681 To 22.37 %
Max
Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
78
28-Ni-61

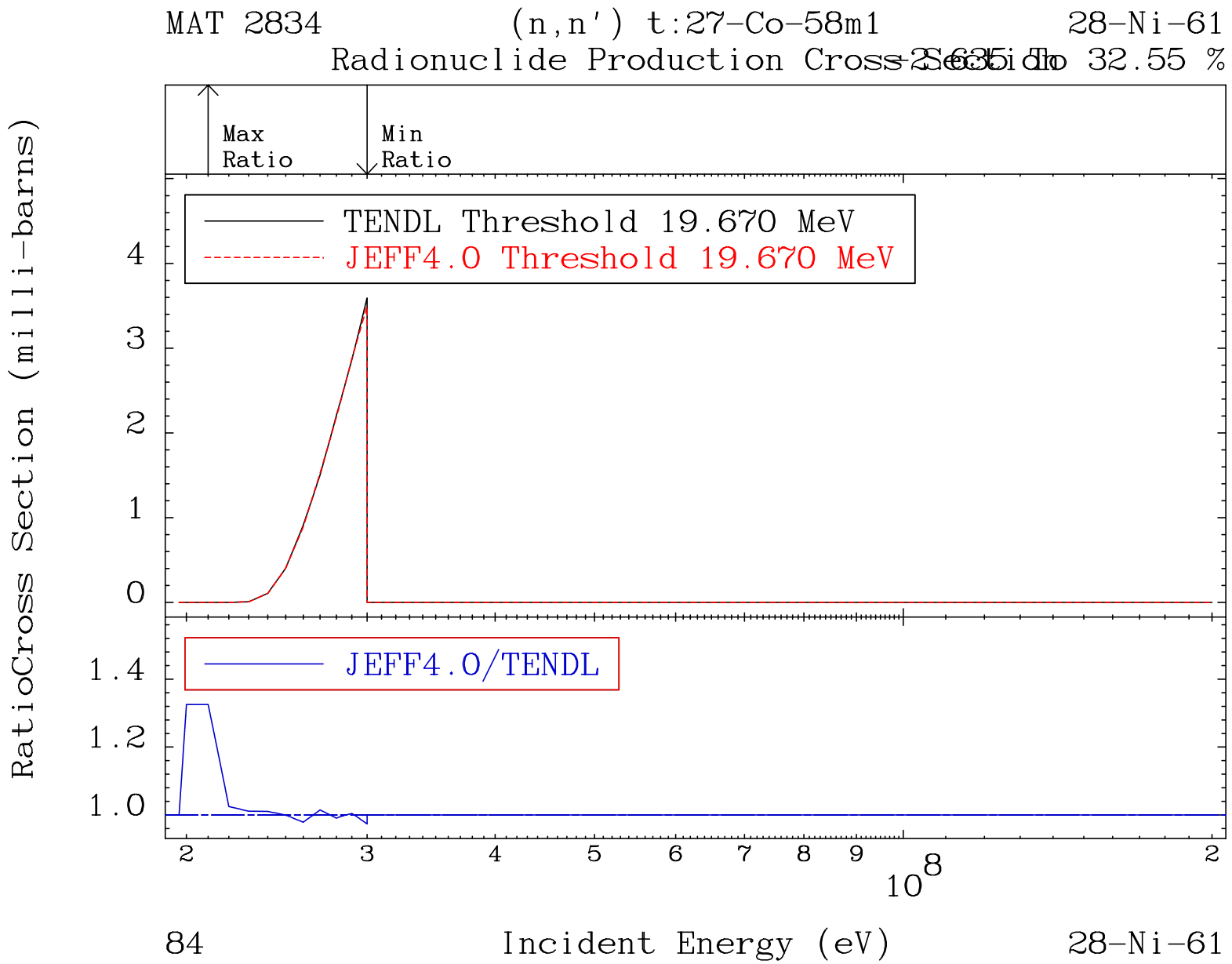

MAT 2834
(n,2n) d:27-Co-58g
28-Ni-61
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 26.005 MeV
JEFF4.0 Threshold 26.005 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
79
28-Ni-61

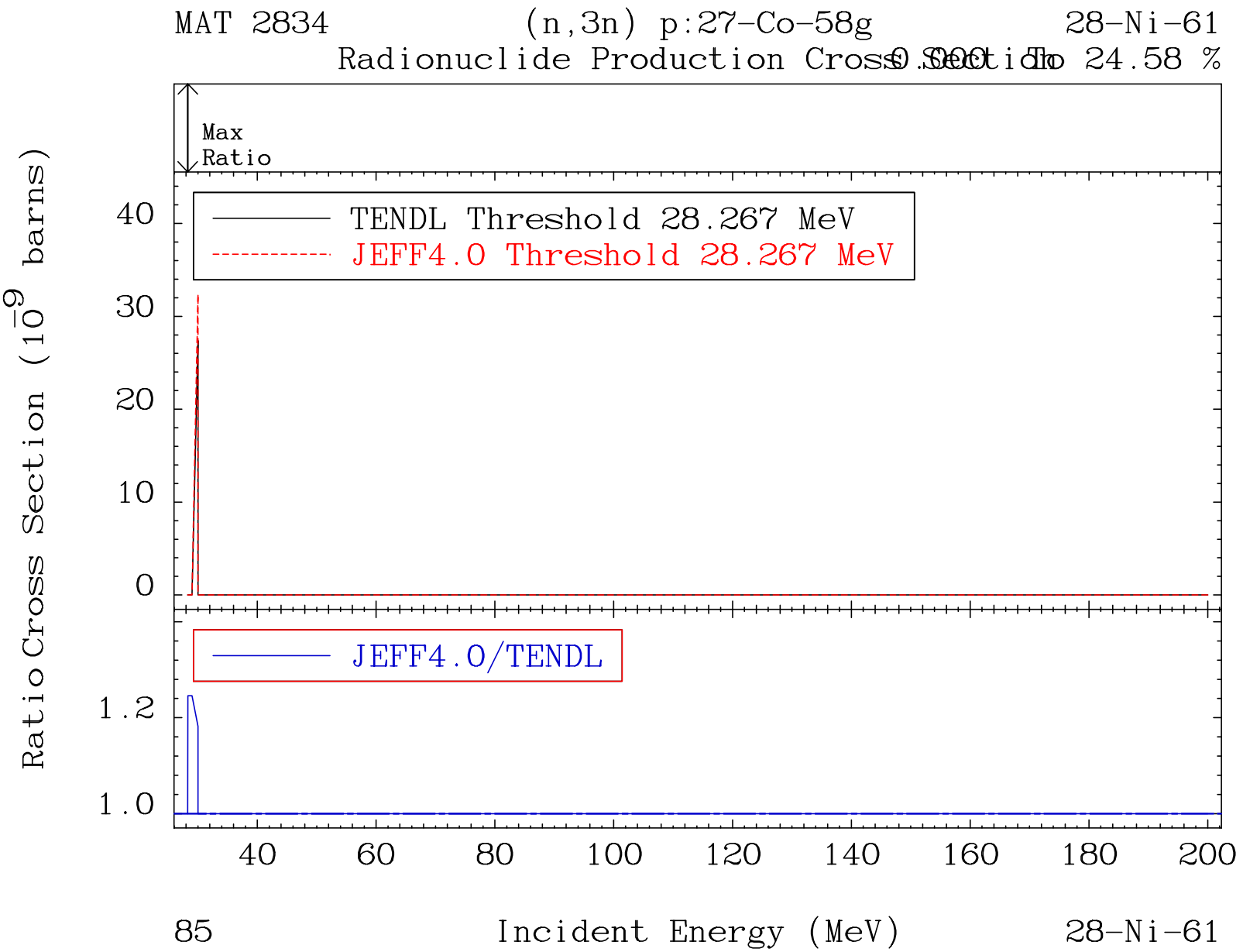

MAT 2834
(n,2n) d:27-Co-58m1
28-Ni-61
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 26.031 MeV
JEFF4.0 Threshold 26.031 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
80
28-Ni-61

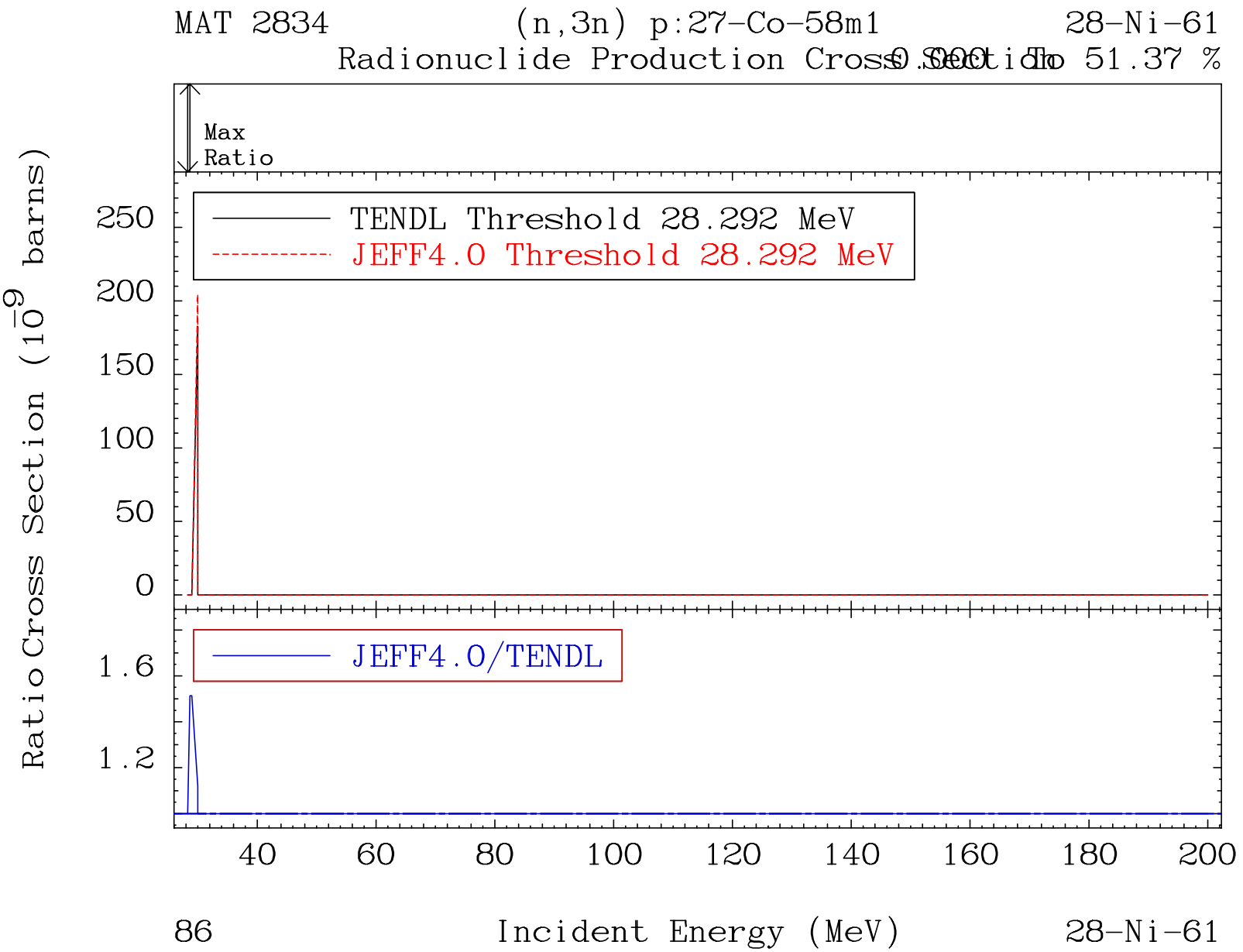

MAT 2834
(n,n') p:27-Co-60g
28-Ni-61
Radionuclide Production Cross Section To 11.51 %
Min Ratio
Max Ratio
TENDL Threshold 10.024 MeV
JEFF4.0 Threshold 10.024 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
28-Ni-61

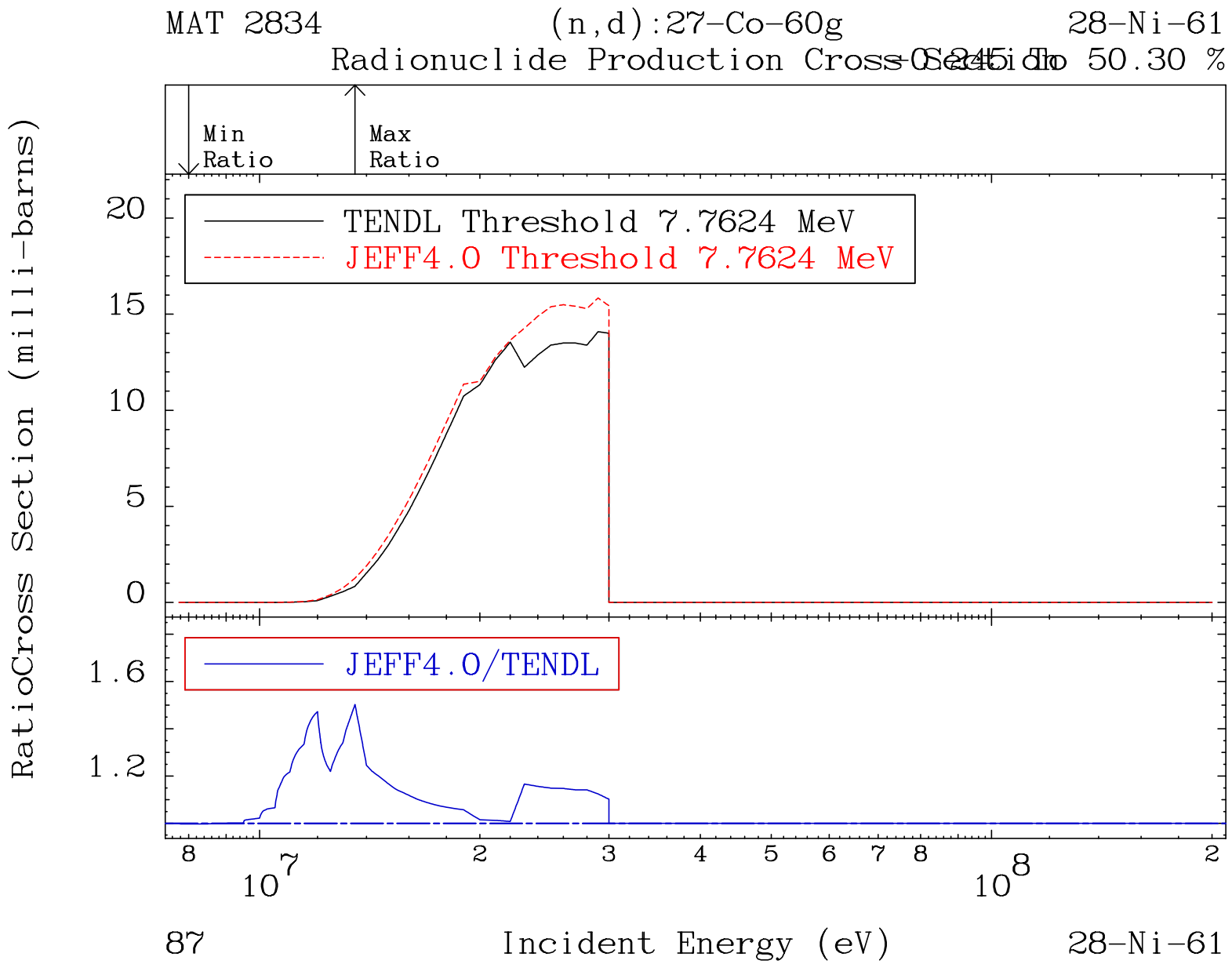

MAT 2834
(n,n') p:27-Co-60m1
28-Ni-61
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.083 MeV
JEFF4.0 Threshold 10.083 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
28-Ni-61

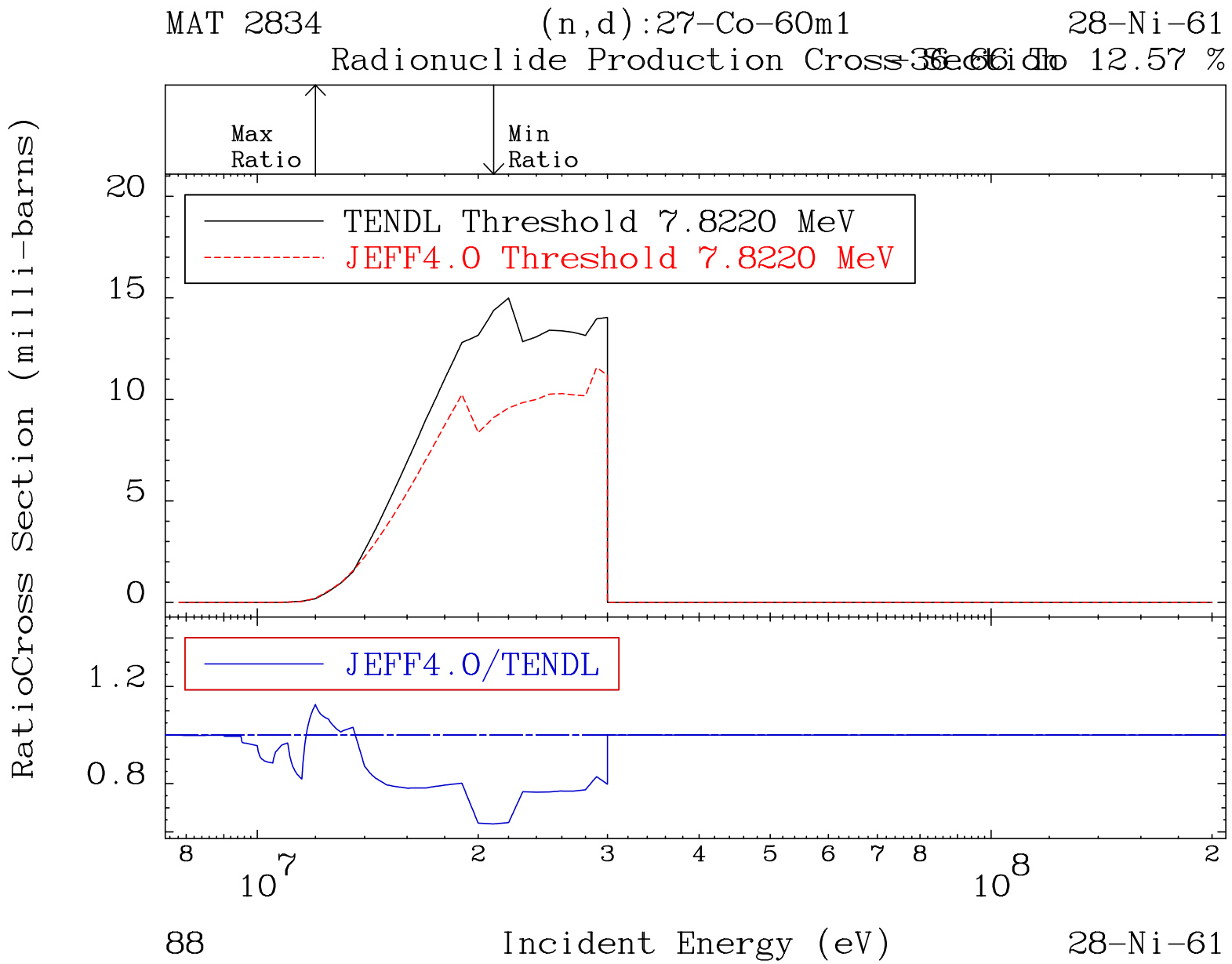

MAT 2834
(n,n') t:27-Co-58g
28-Ni-61
Radionuclide Production Cross Section To 9.194 %
Min
Ratio
TENDL Threshold 19.644 MeV
JEFF4.0 Threshold 19.644 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
28-Ni-61


MAT 2834
(n,n') t:27-Co-58m1
28-Ni-61
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 19.670 MeV
JEFF4.0 Threshold 19.670 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
84
28-Ni-61


MAT 2834
(n,3n) p:27-Co-58g
28-Ni-61
Radionuclide Production Cross Section
0.000 To 24.58 %
Max
Ratio
TENDL Threshold 28.267 MeV
JEFF4.0 Threshold 28.267 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
40
30
20
10
0
1.2
1.0
40
60
80
100
120
140
160
180
200
85
Incident Energy (MeV)
28-Ni-61


MAT 2834
(n,3n) p:27-Co-58m1
28-Ni-61
Radionuclide Production Cross Section
0.000 To 51.37 %
Max
Ratio
TENDL Threshold 28.292 MeV
JEFF4.0 Threshold 28.292 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
250
200
150
100
50
0
1.6
1.2
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
28-Ni-61


MAT 2834
(n,d):27-Co-60g
28-Ni-61
Radionuclide Production Cross Section To 50.30 %
Min Ratio
Max Ratio
TENDL Threshold 7.7624 MeV
JEFF4.0 Threshold 7.7624 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.6
1.2
8
2
3
4
5
6
7
8
2
10^7
10^8
87
Incident Energy (eV)
28-Ni-61


MAT 2834
(n,d):27-Co-60m1
28-Ni-61
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.8220 MeV
JEFF4.0 Threshold 7.8220 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
88
28-Ni-61