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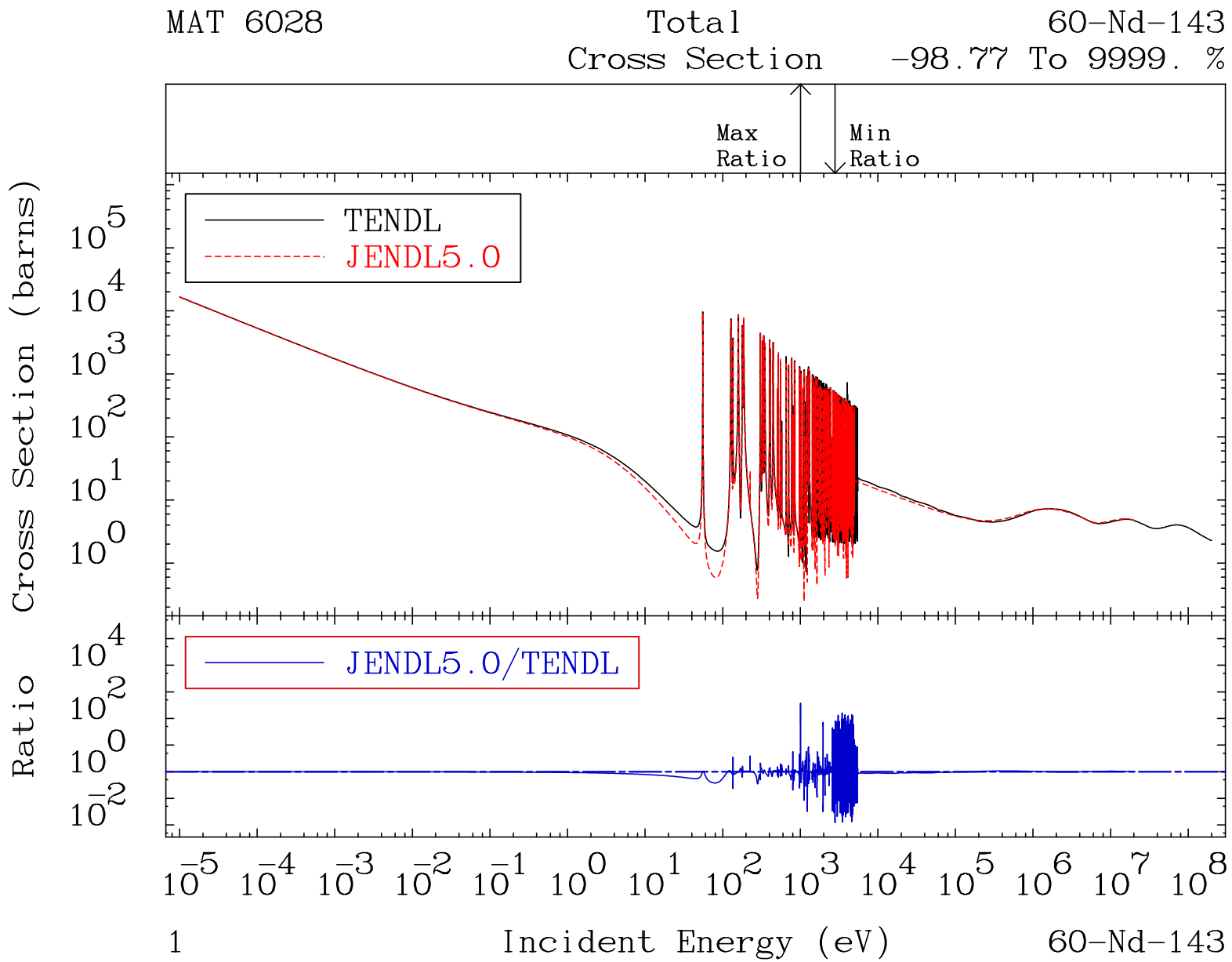
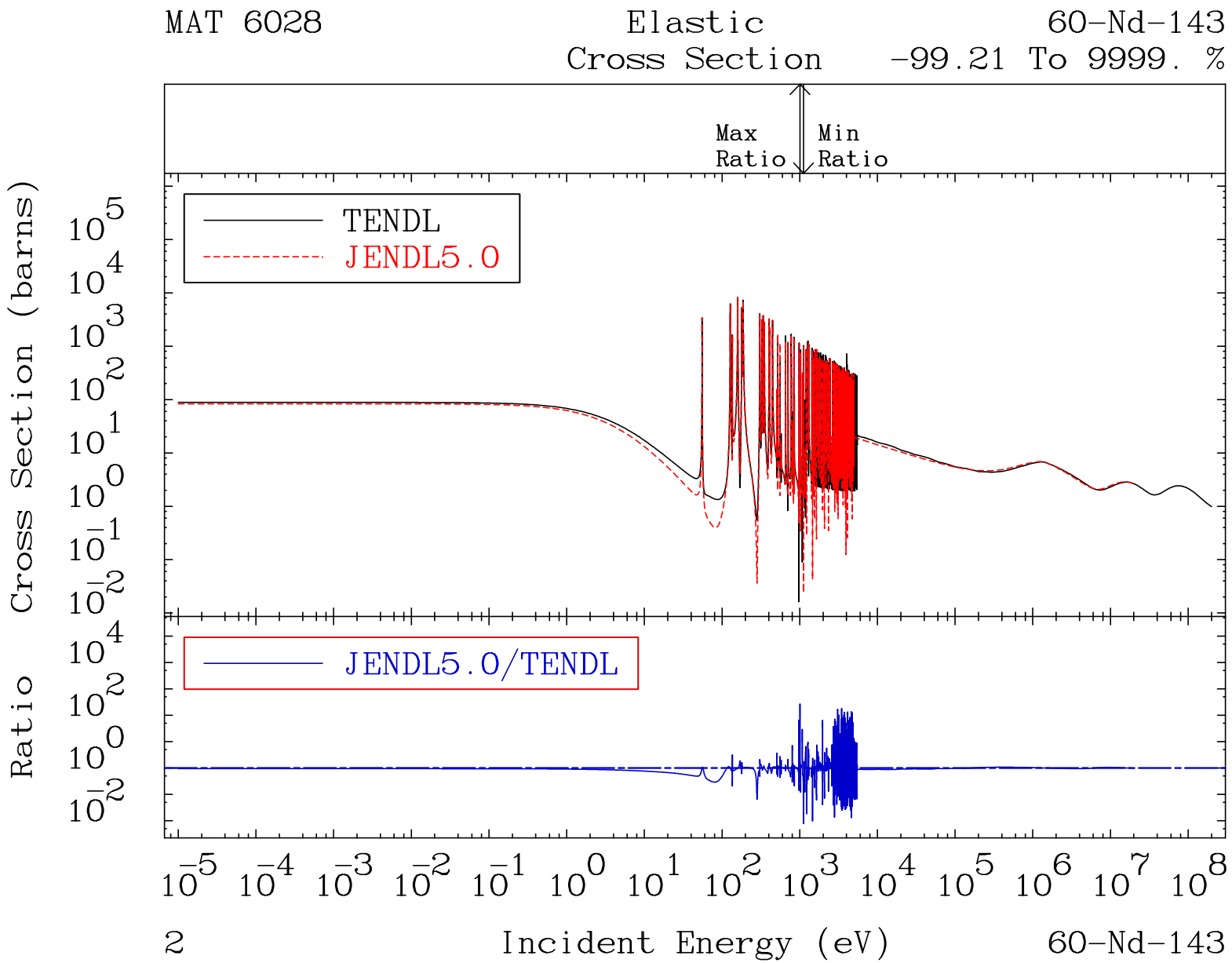
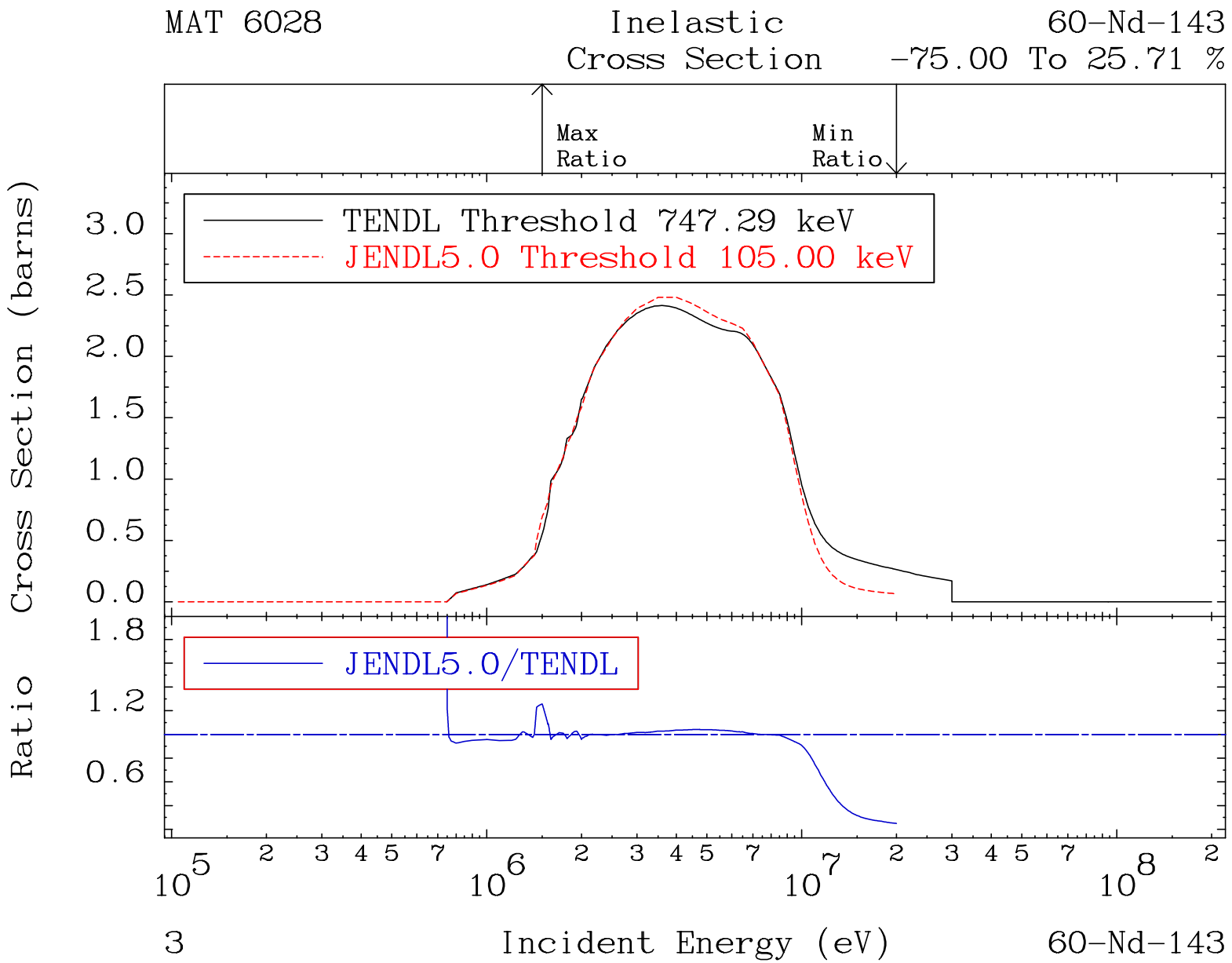
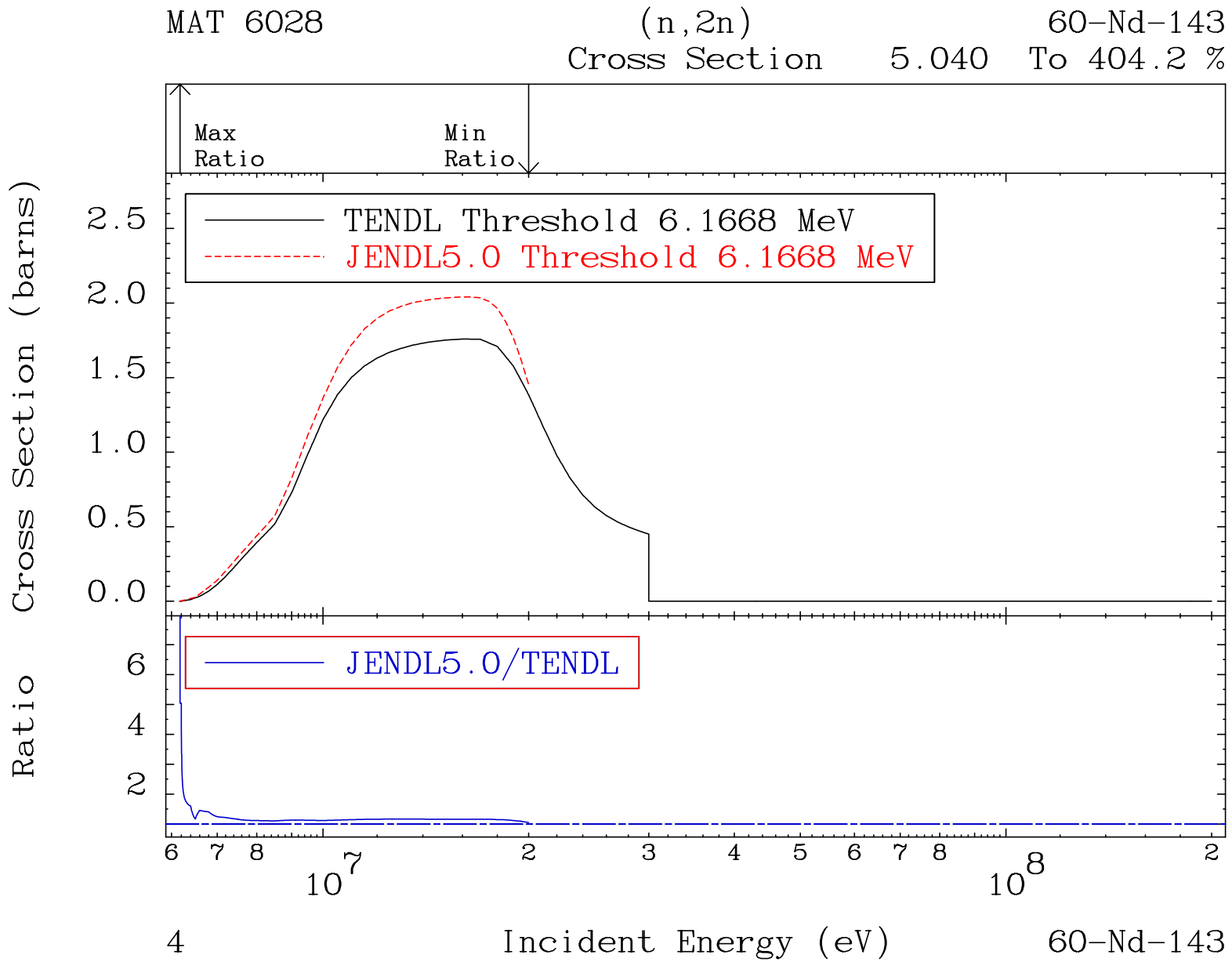
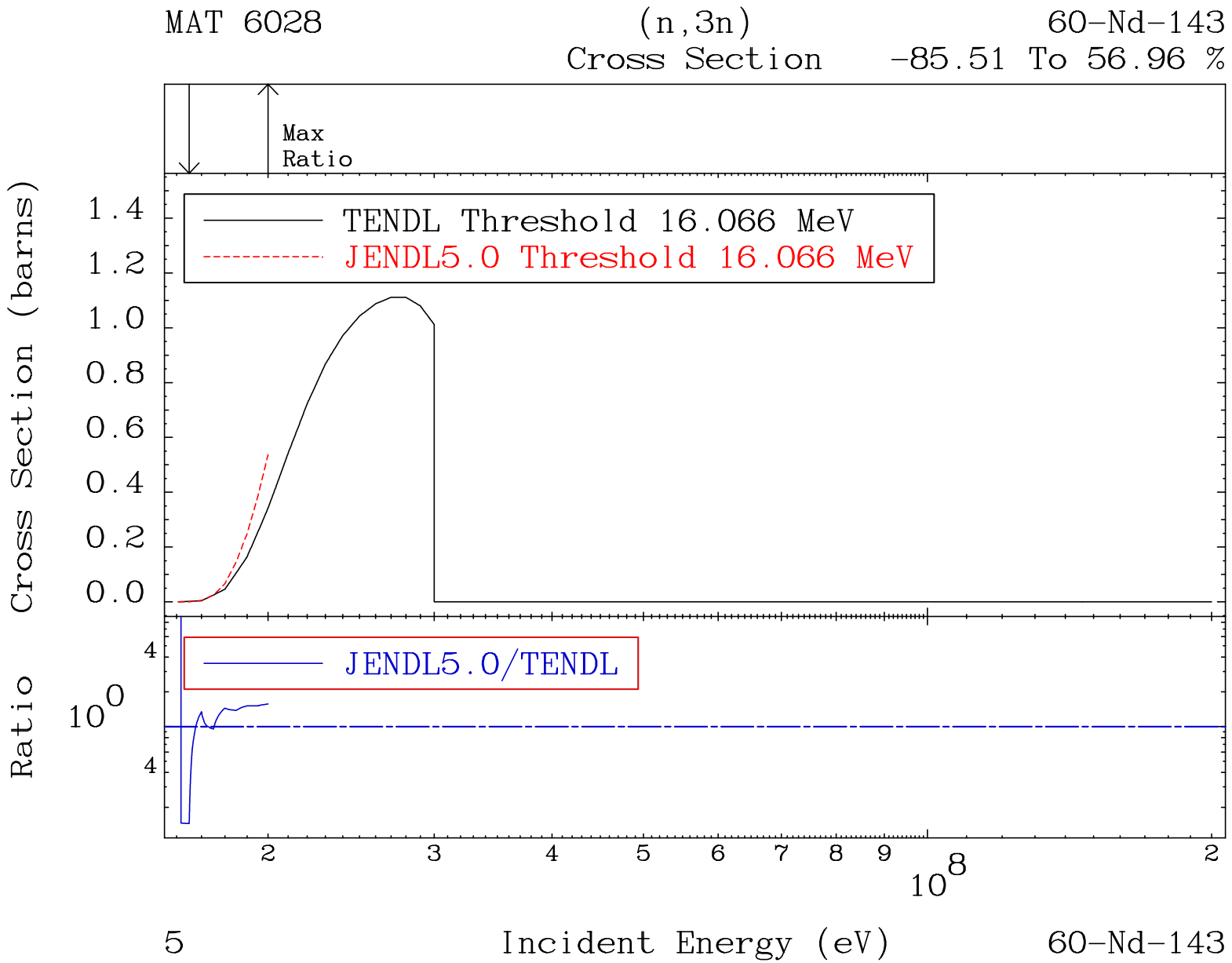
Press Mouse Button to Start

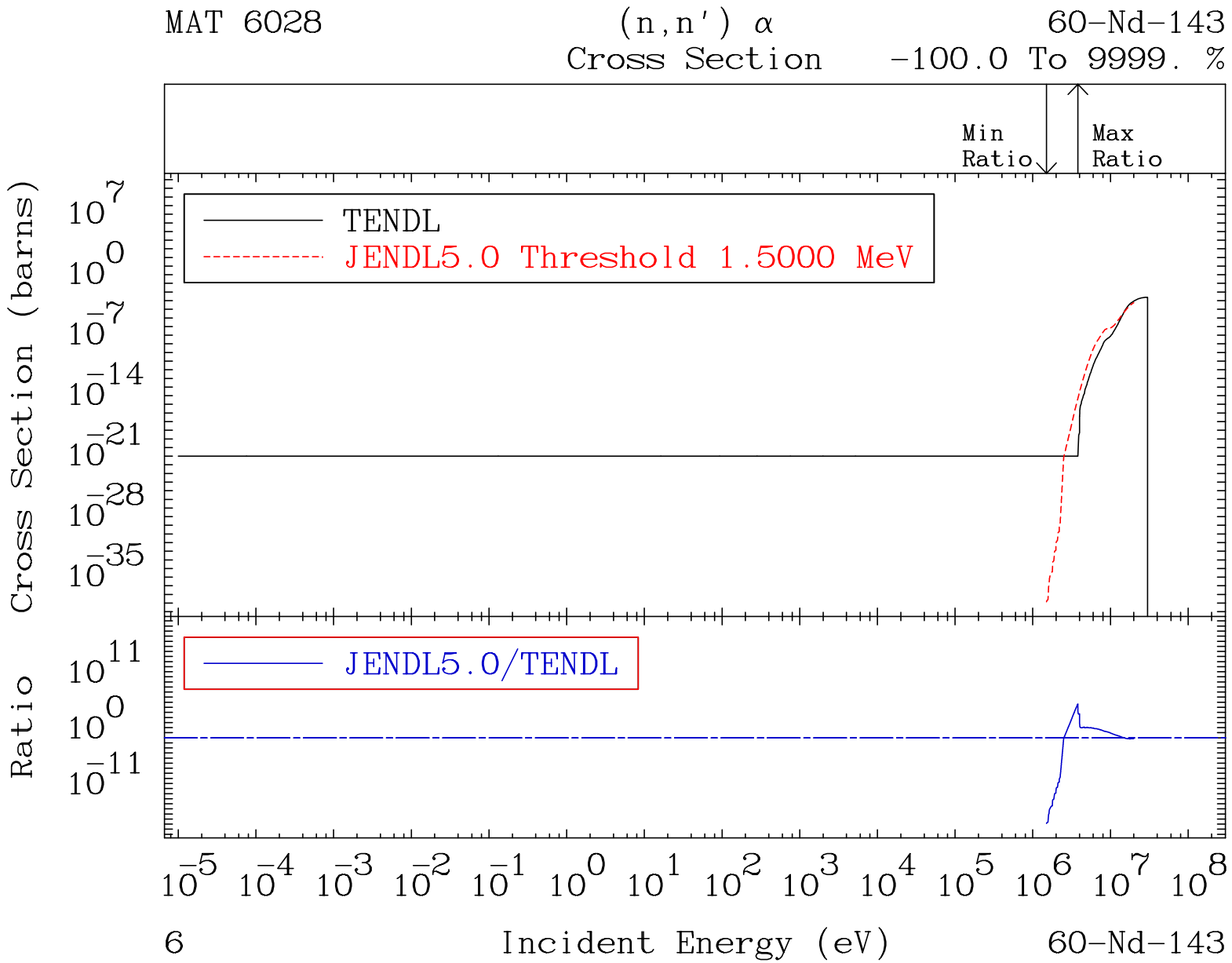

MAT 6028
Total
Cross Section
60-Nd-143
-98.77 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
60-Nd-143

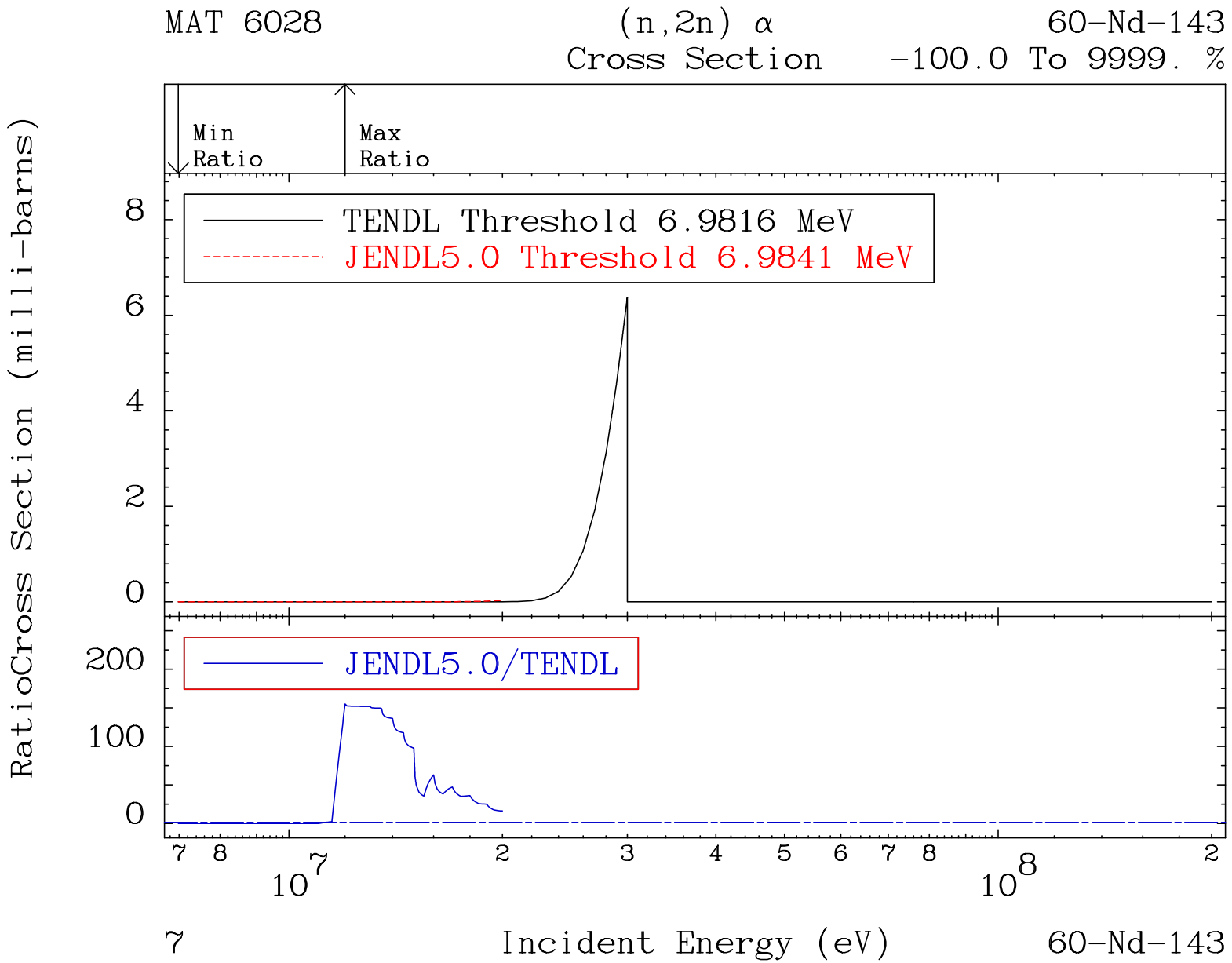

MAT 6028
Elastic
Cross Section
60-Nd-143
-99.21 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
60-Nd-143

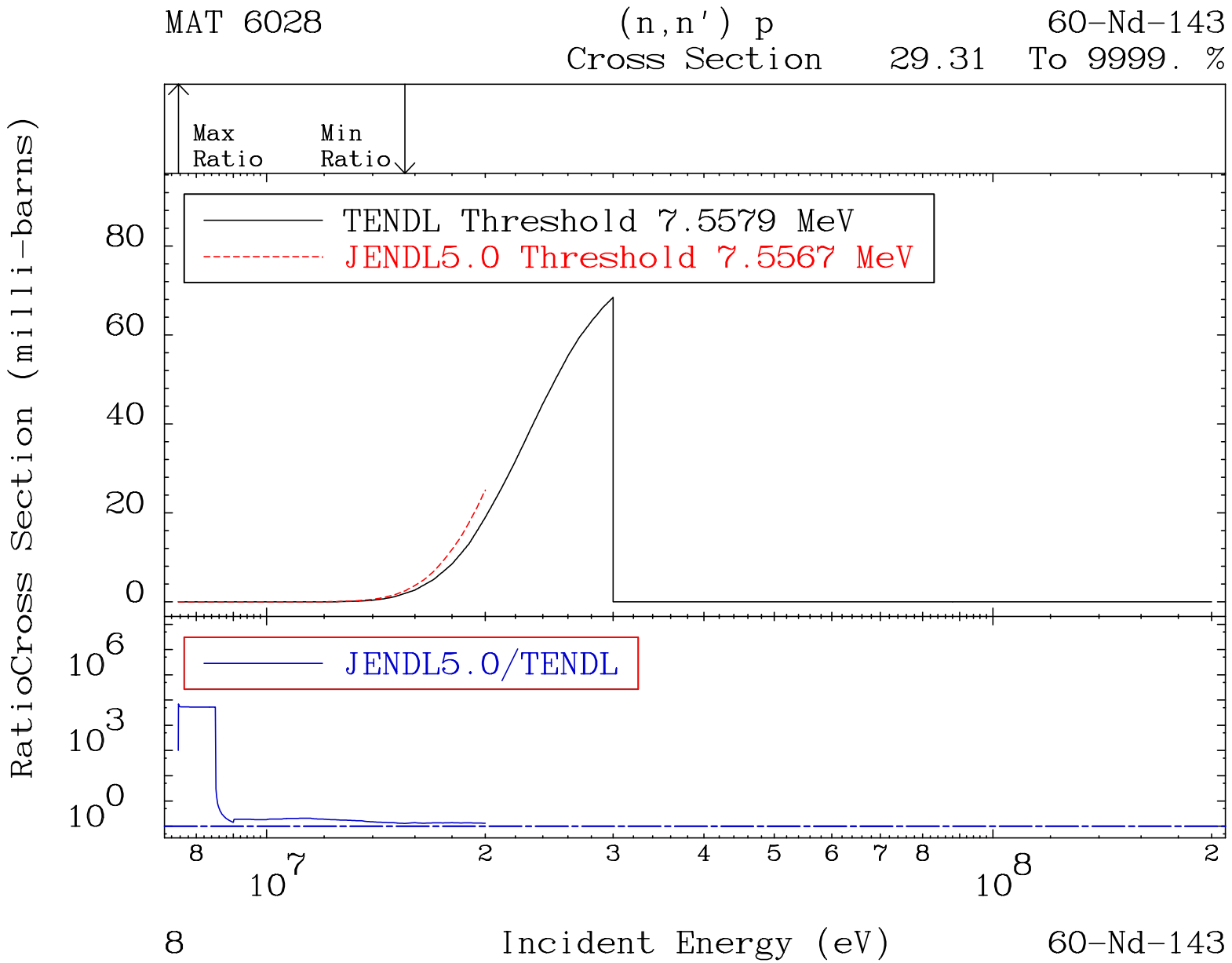

MAT 6028
Inelastic
Cross Section
60-Nd-143
-75.00 To 25.71 %
Max
Ratio
Min
Ratio
TENDL Threshold 747.29 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.8
1.2
0.6
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
60-Nd-143

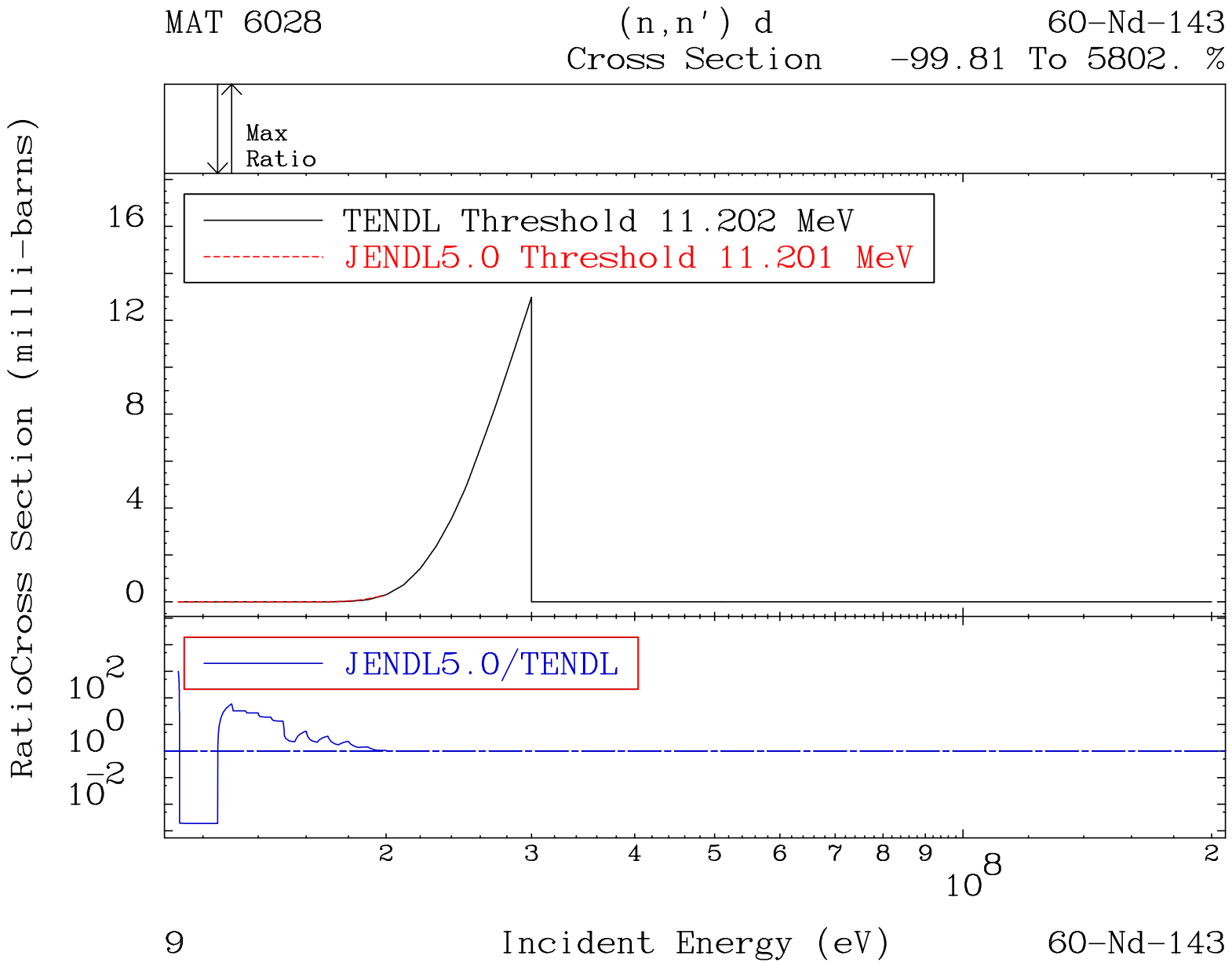

MAT 6028
(n,2n)
60-Nd-143
Cross Section 5.040 To 404.2 %
Max Ratio
Min Ratio
TENDL Threshold 6.1668 MeV
JENDL5.0 Threshold 6.1668 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60-Nd-143
4

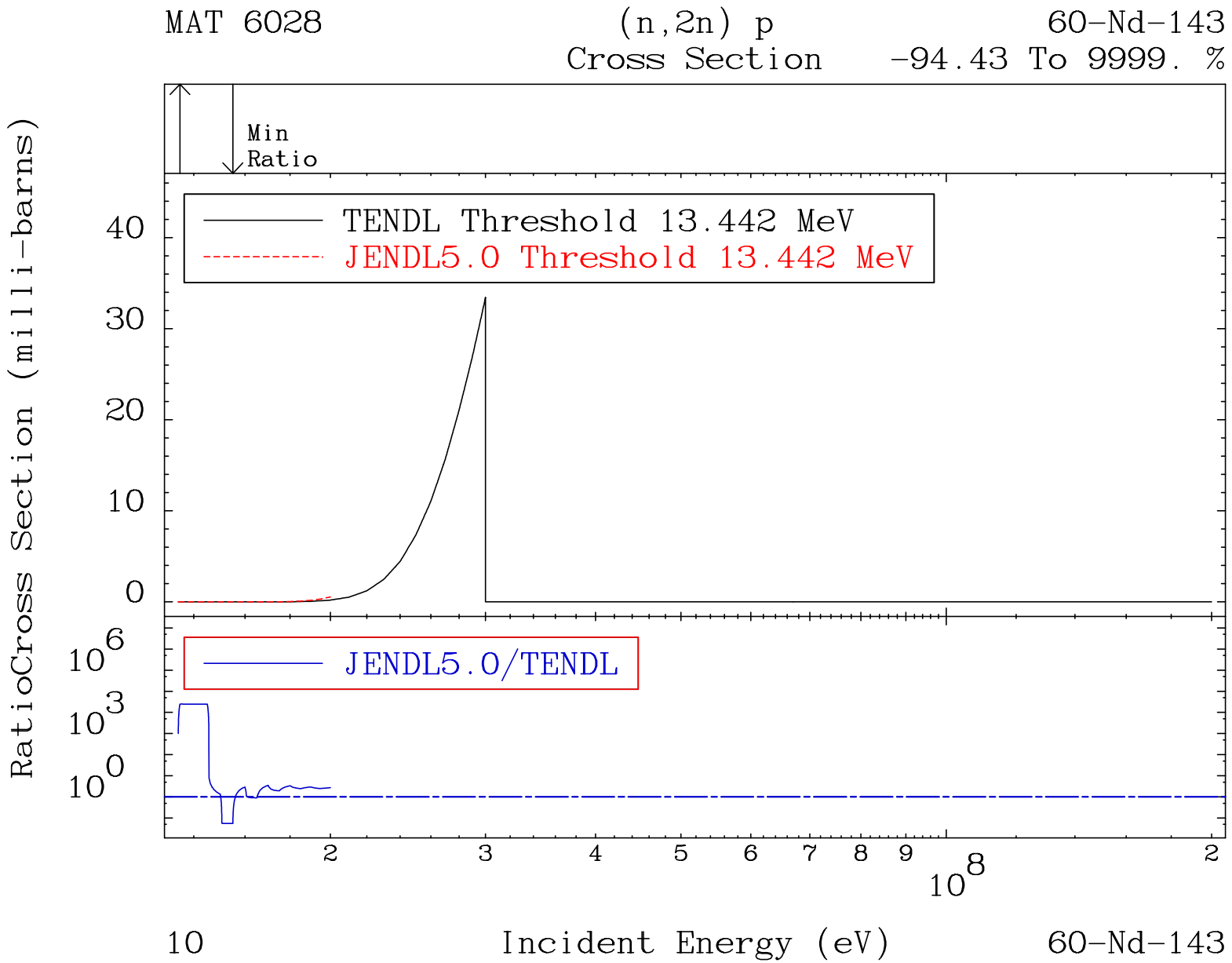

MAT 6028
(n,3n)
Cross Section
60-Nd-143
-85.51 To 56.96 %
Max
Ratio
TENDL Threshold 16.066 MeV
JENDL5.0 Threshold 16.066 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
10^0
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
60-Nd-143

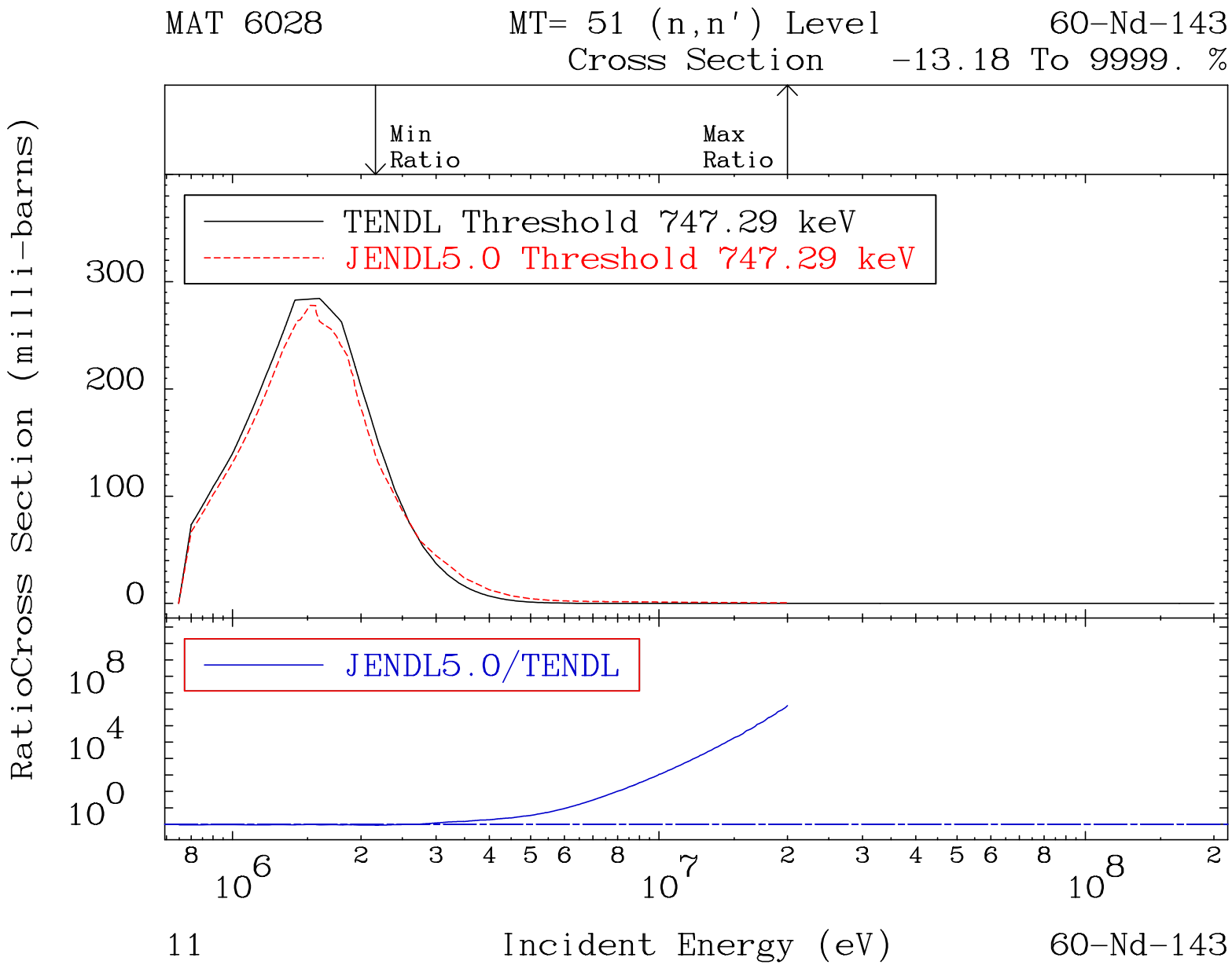

MAT 6028
(n,n') α
Cross Section
60-Nd-143
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 1.5000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
6
60-Nd-143

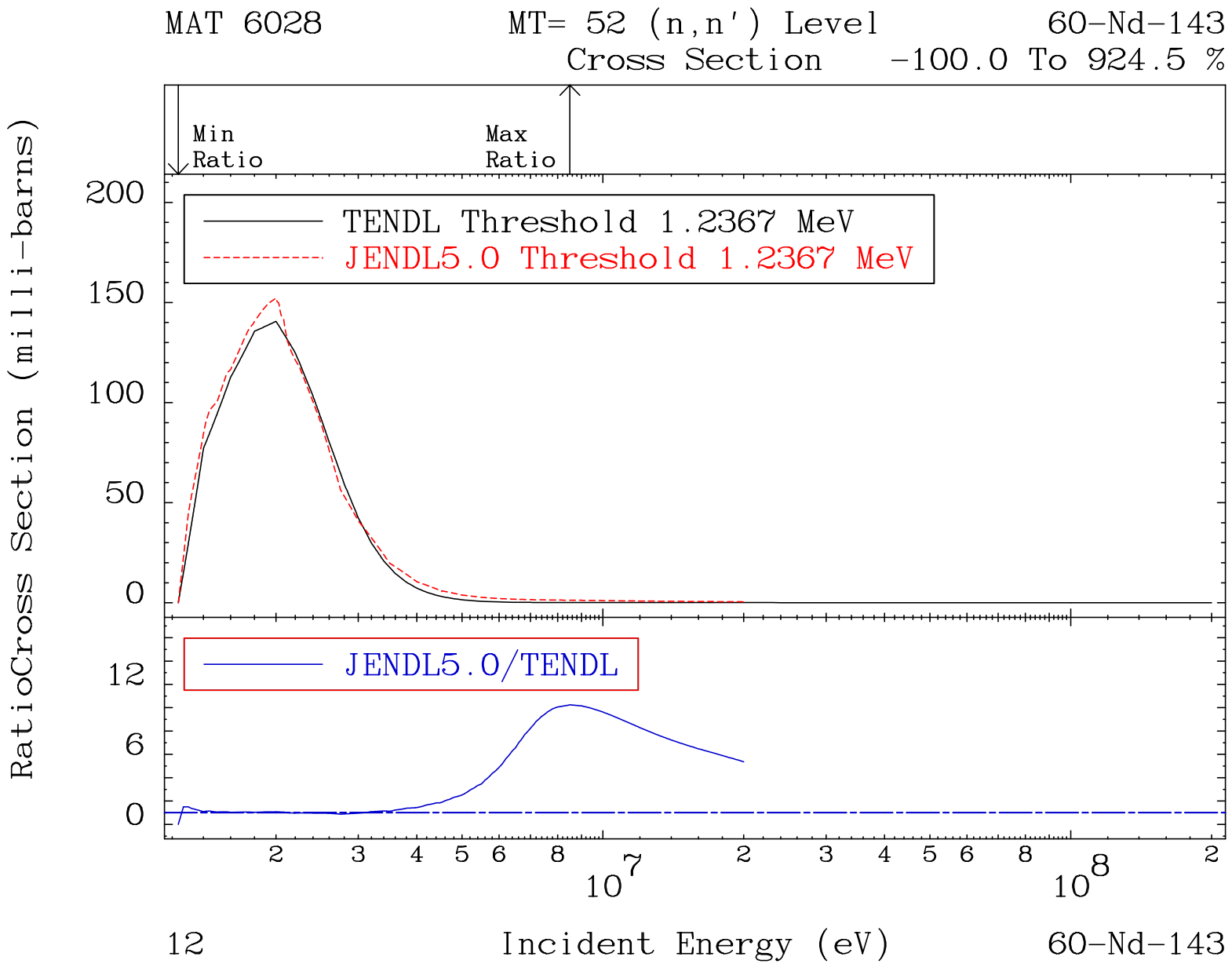

MAT 6028
(n,2n) α
Cross Section
60-Nd-143
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.9816 MeV
JENDL5.0 Threshold 6.9841 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
60-Nd-143

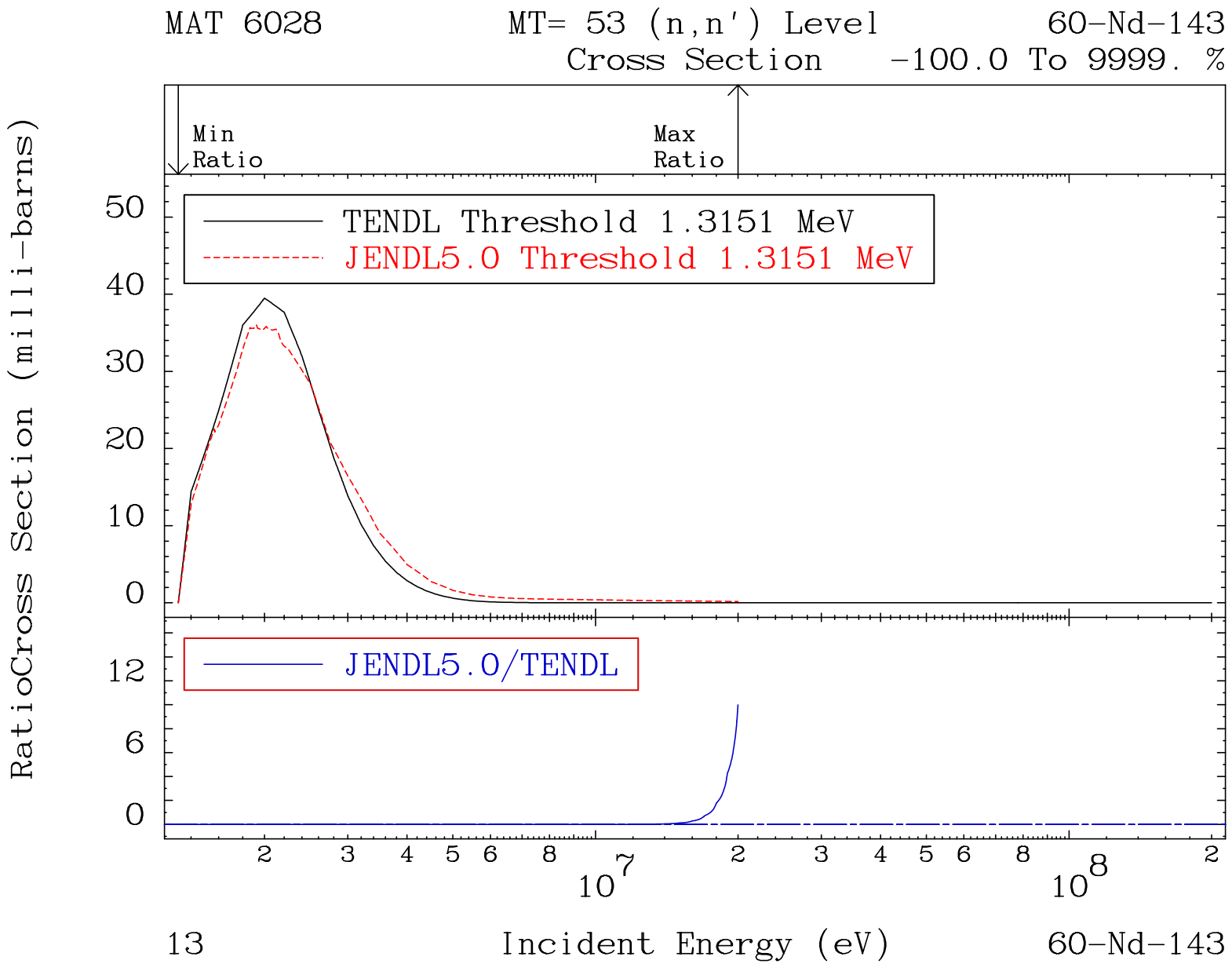

MAT 6028
(n,n') p
Cross Section
29.31
To 9999. %
60-Nd-143
Max Ratio
Min Ratio
TENDL Threshold 7.5579 MeV
JENDL5.0 Threshold 7.5567 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^6
10^3
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
60-Nd-143

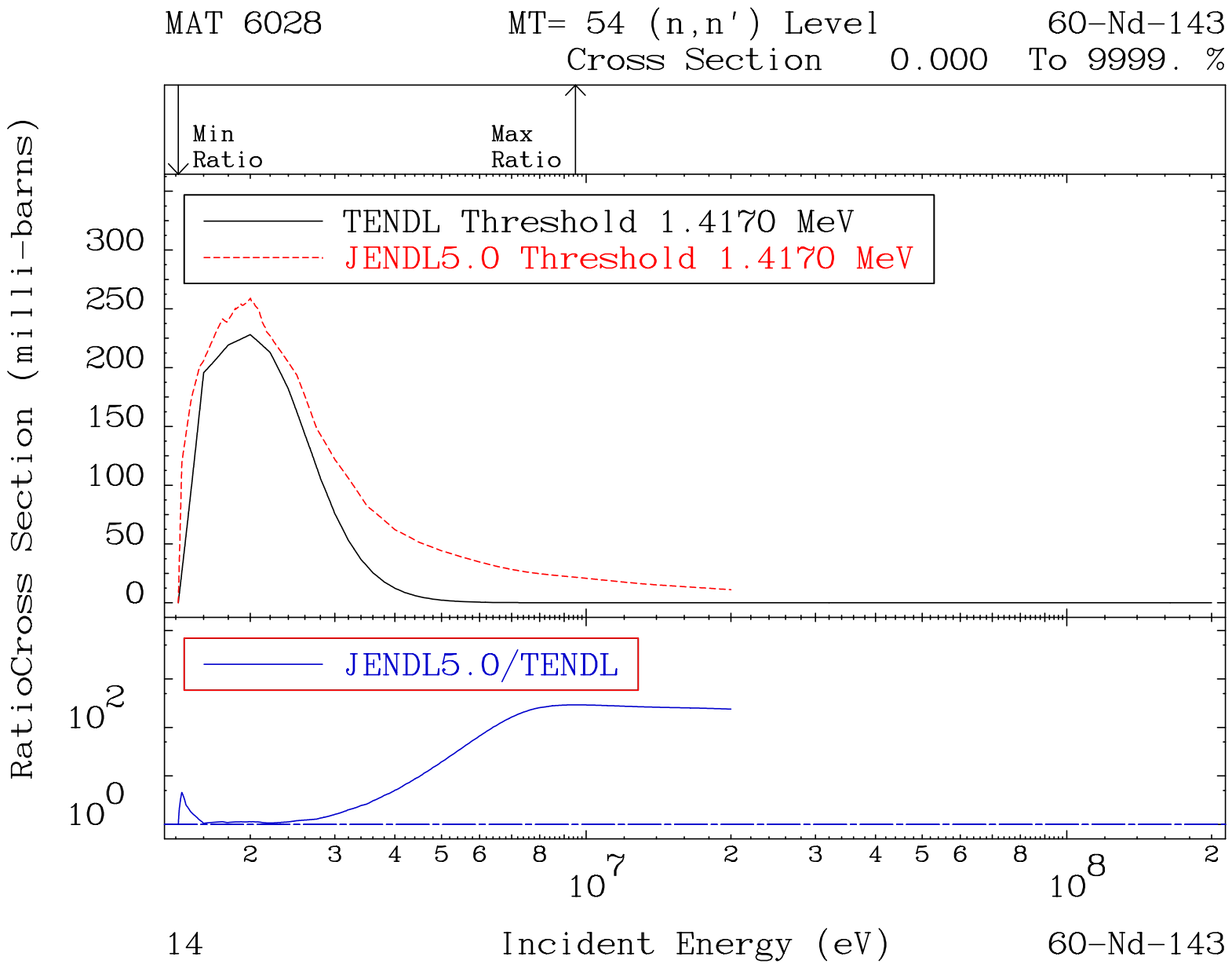

MAT 6028
(n,n') d
Cross Section
60-Nd-143
-99.81 To 5802. %
Max
Ratio
TENDL Threshold 11.202 MeV
JENDL5.0 Threshold 11.201 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
60-Nd-143

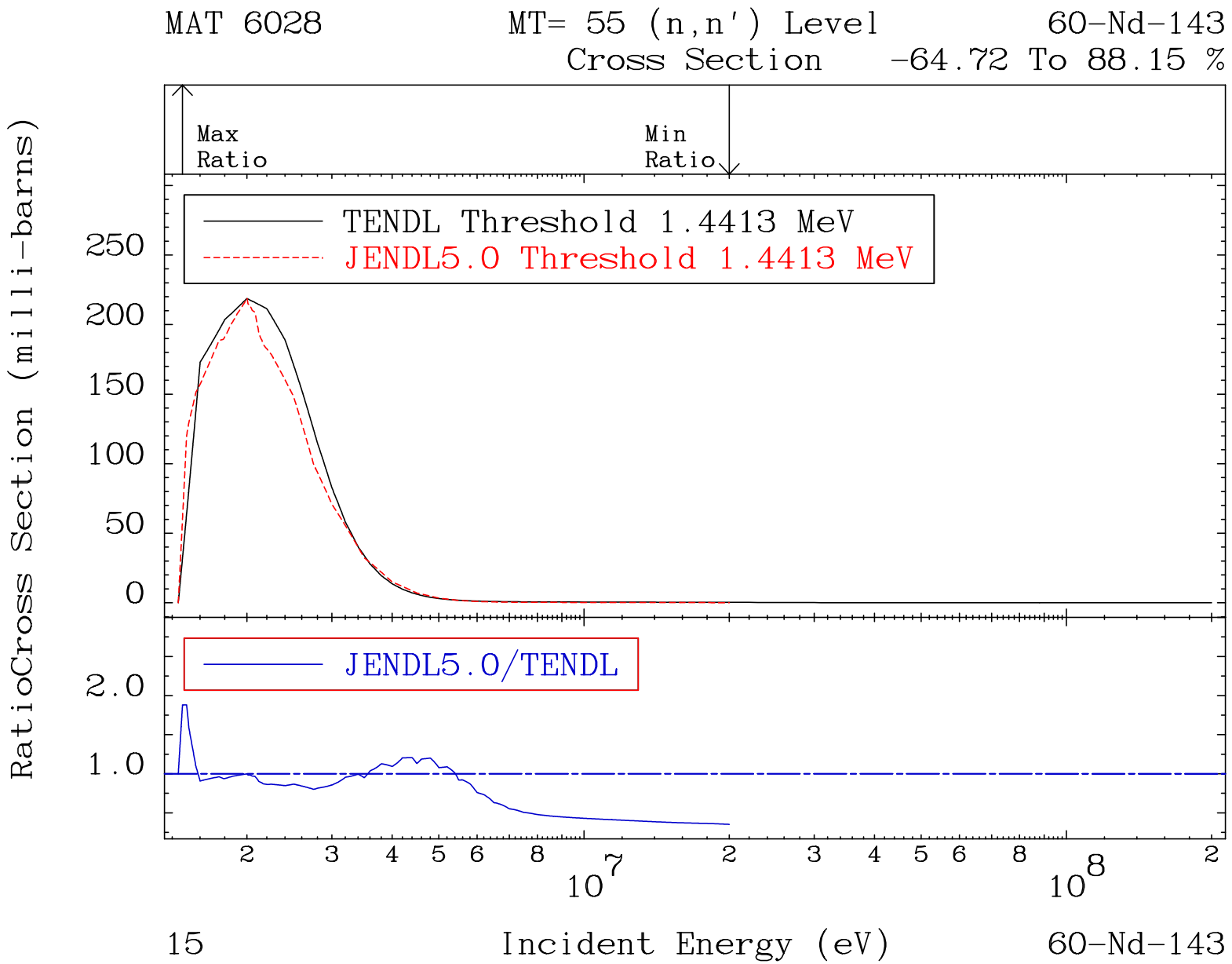

MAT 6028
(n,2n) p
Cross Section
60-Nd-143
-94.43 To 9999. %
Min
Ratio
TENDL Threshold 13.442 MeV
JENDL5.0 Threshold 13.442 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
60-Nd-143

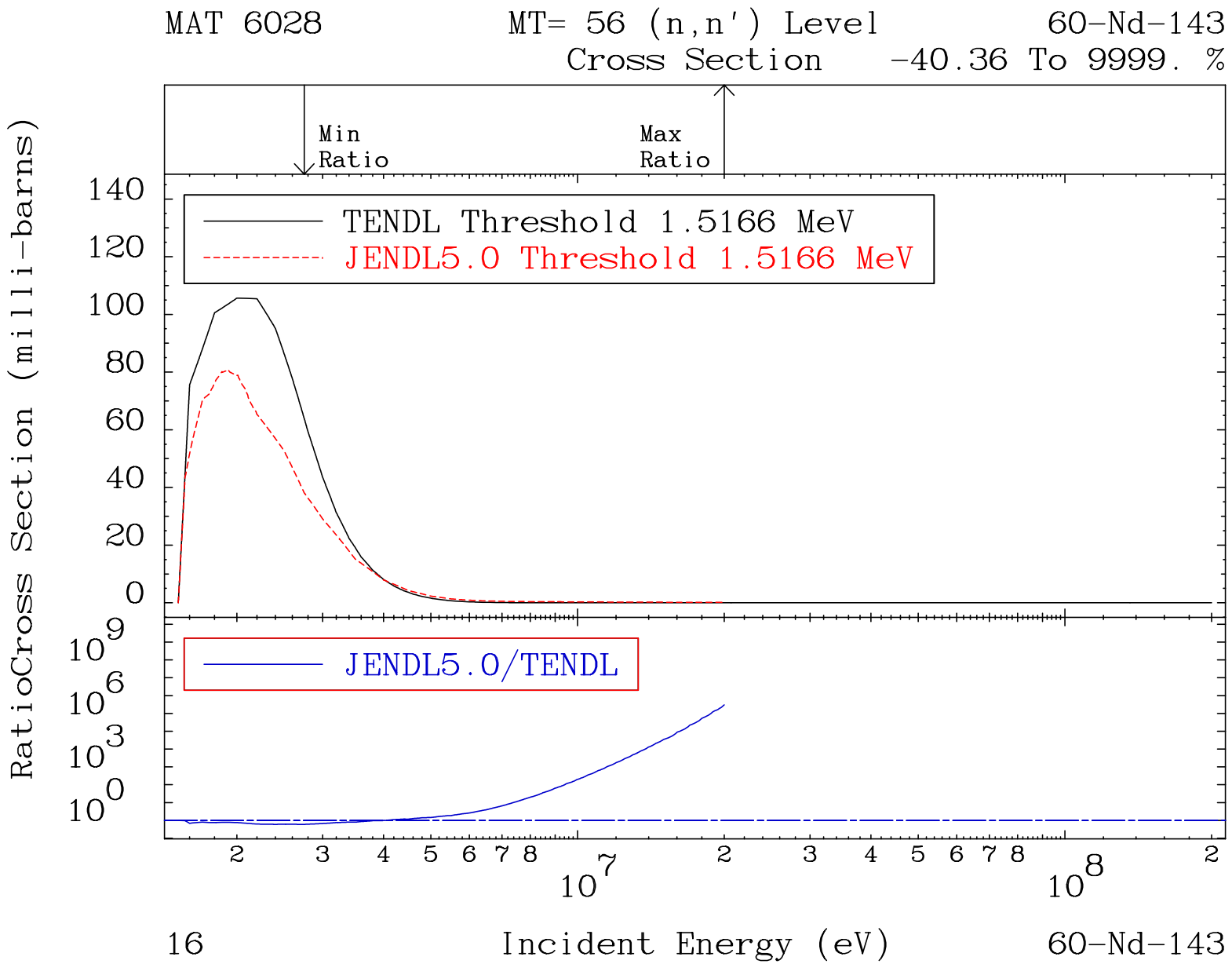

MAT 6028
MT= 51 (n,n') Level
Cross Section
60-Nd-143
-13.18 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 747.29 keV
JENDL5.0 Threshold 747.29 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
10^8
10^4
10^0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
11
Incident Energy (eV)
60-Nd-143

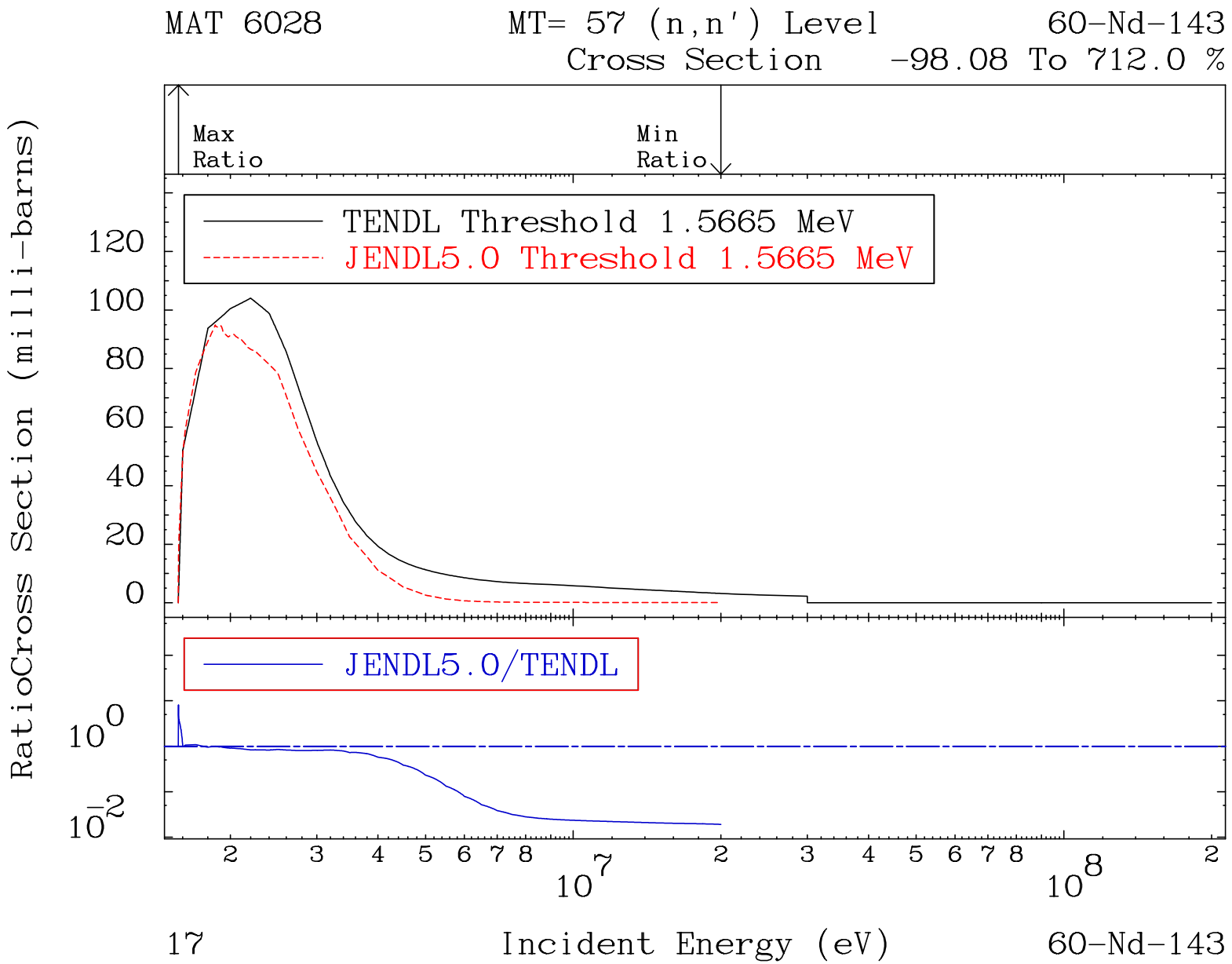

MAT 6028
MT= 52 (n,n') Level
60-Nd-143
Cross Section
-100.0 To 924.5 %
Min Ratio
Max Ratio
TENDL Threshold 1.2367 MeV
JENDL5.0 Threshold 1.2367 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
12
6
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
60-Nd-143

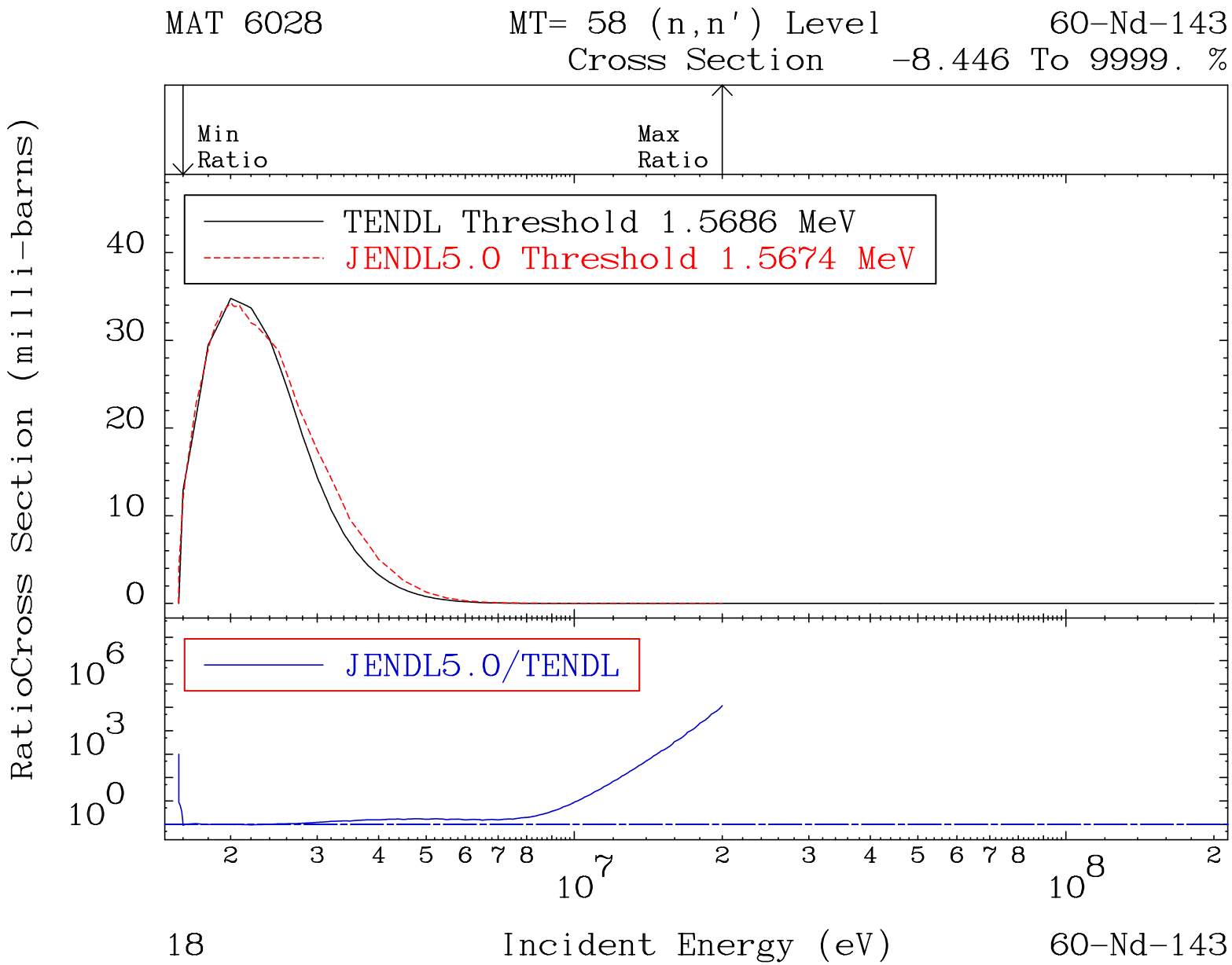

MAT 6028
MT= 53 (n,n') Level
60-Nd-143
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3151 MeV
JENDL5.0 Threshold 1.3151 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
12
6
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
60-Nd-143

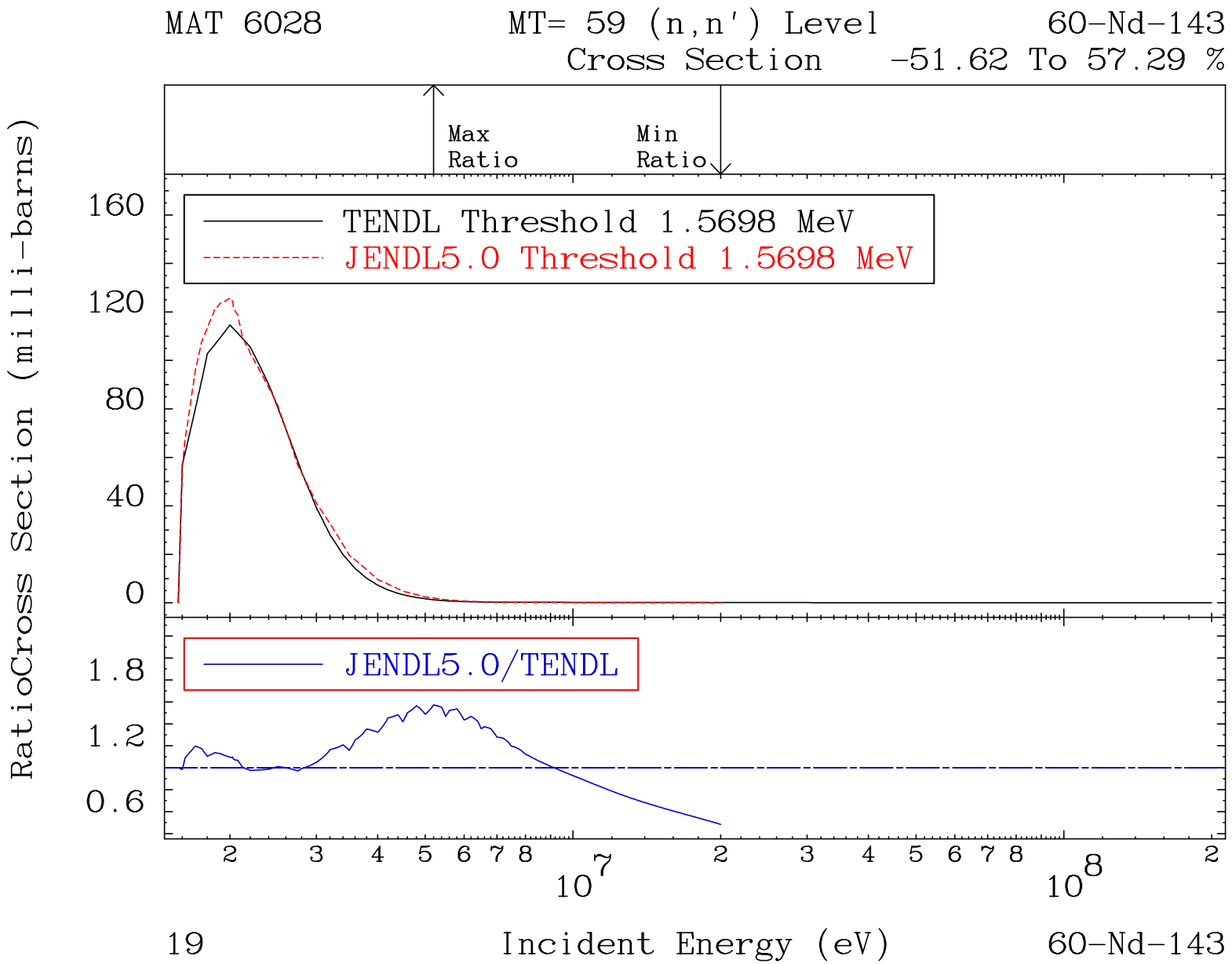

MAT 6028
MT= 54 (n,n') Level
60-Nd-143
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4170 MeV
JENDL5.0 Threshold 1.4170 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
60-Nd-143

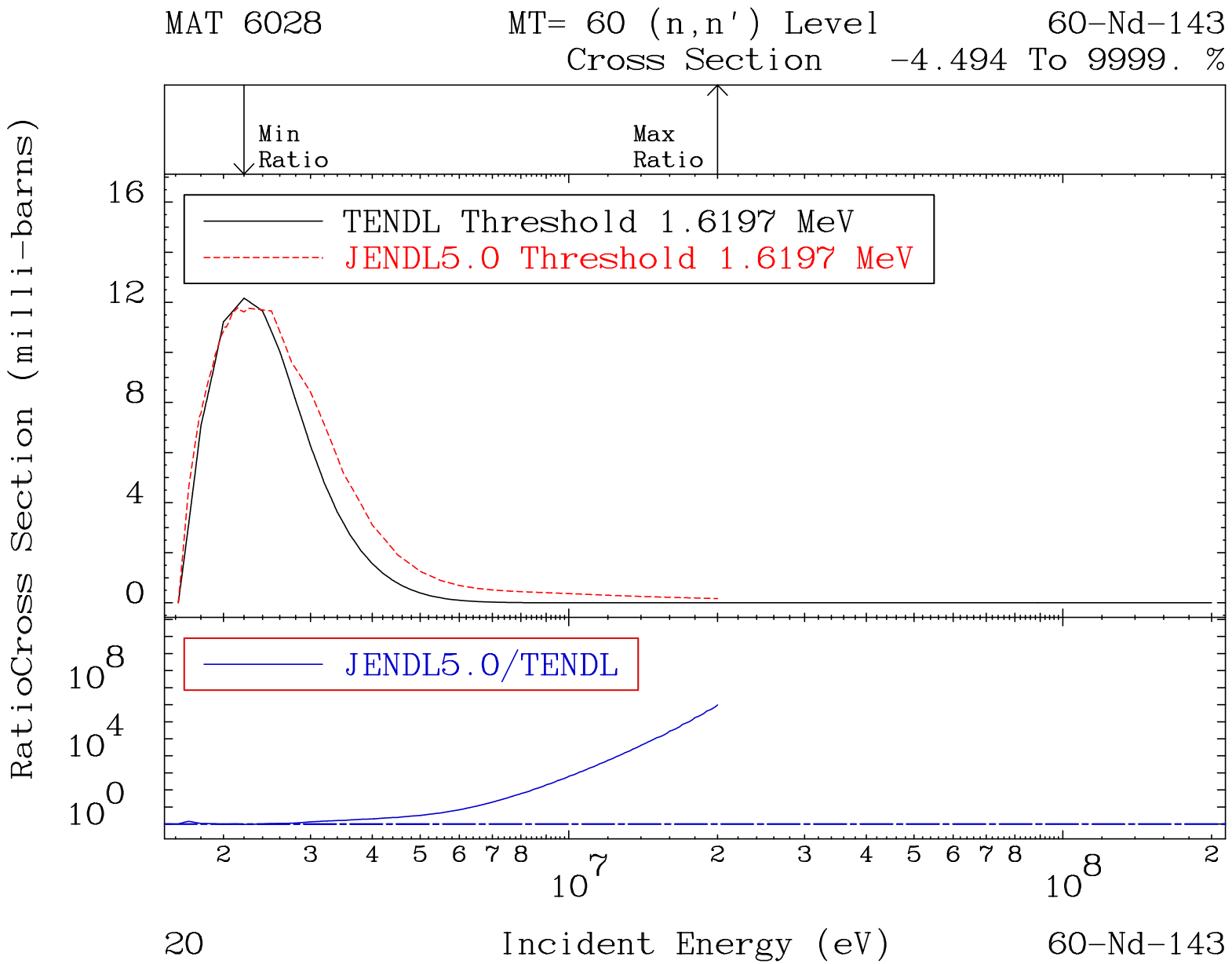

MAT 6028
MT= 55 (n,n') Level
60-Nd-143
Cross Section
-64.72 To 88.15 %
Max Ratio
Min Ratio
TENDL Threshold 1.4413 MeV
JENDL5.0 Threshold 1.4413 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
15
Incident Energy (eV)
60-Nd-143

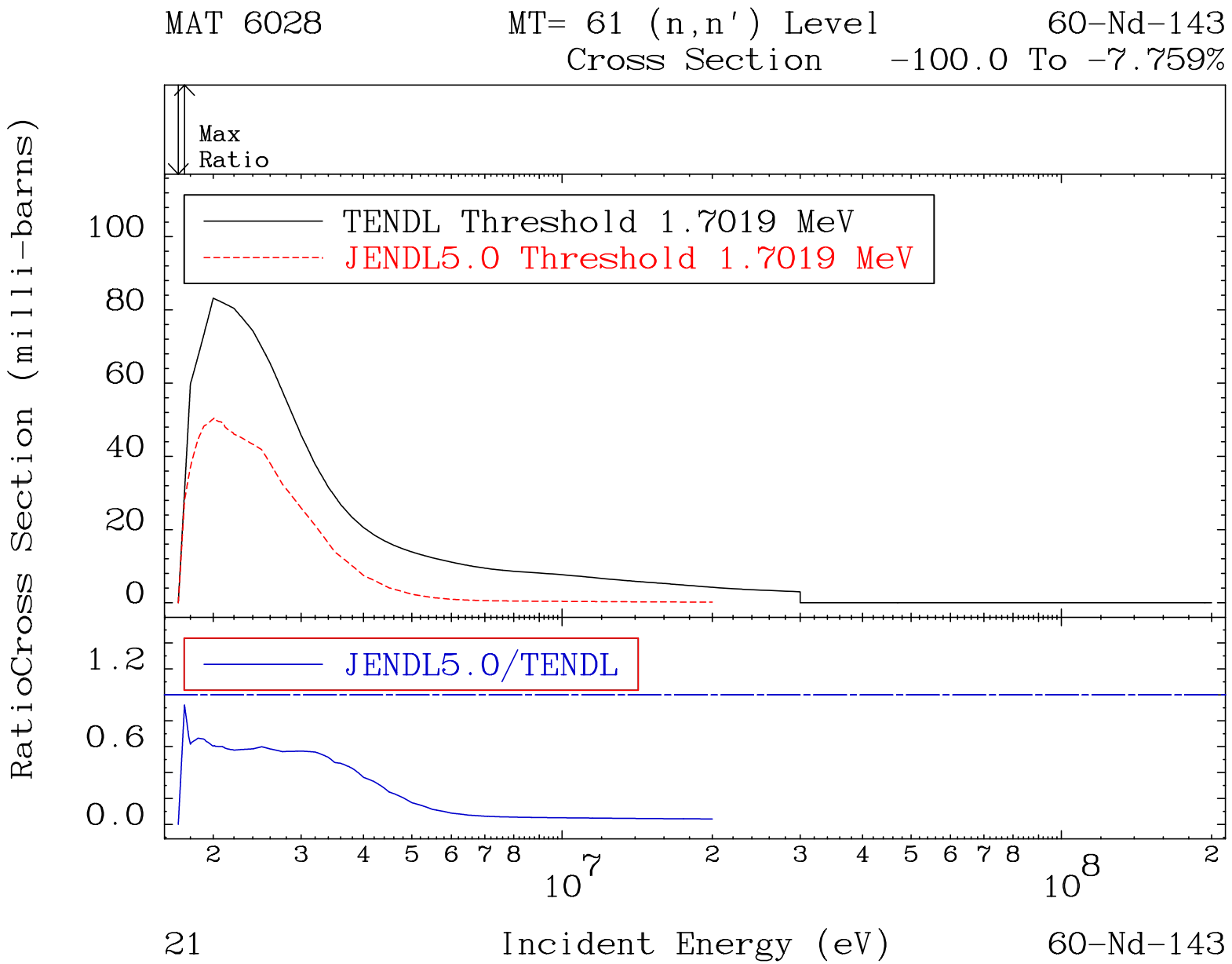

MAT 6028
MT= 56 (n,n') Level
60-Nd-143
Cross Section -40.36 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5166 MeV
JENDL5.0 Threshold 1.5166 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
60-Nd-143

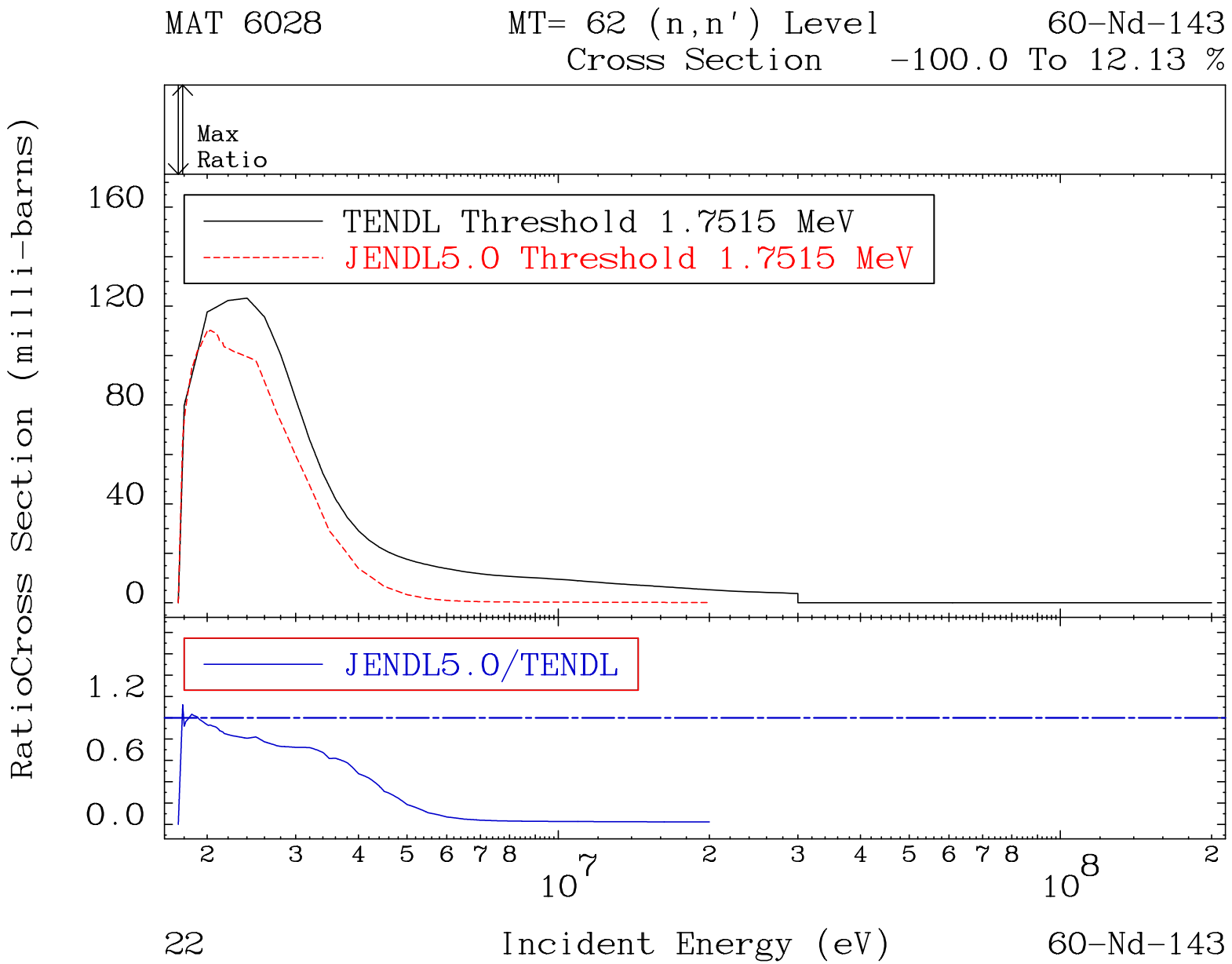

MAT 6028
MT= 57 (n,n') Level
60-Nd-143
Cross Section
-98.08 To 712.0 %
Max Ratio
Min Ratio
TENDL Threshold 1.5665 MeV
JENDL5.0 Threshold 1.5665 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^0
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
60-Nd-143

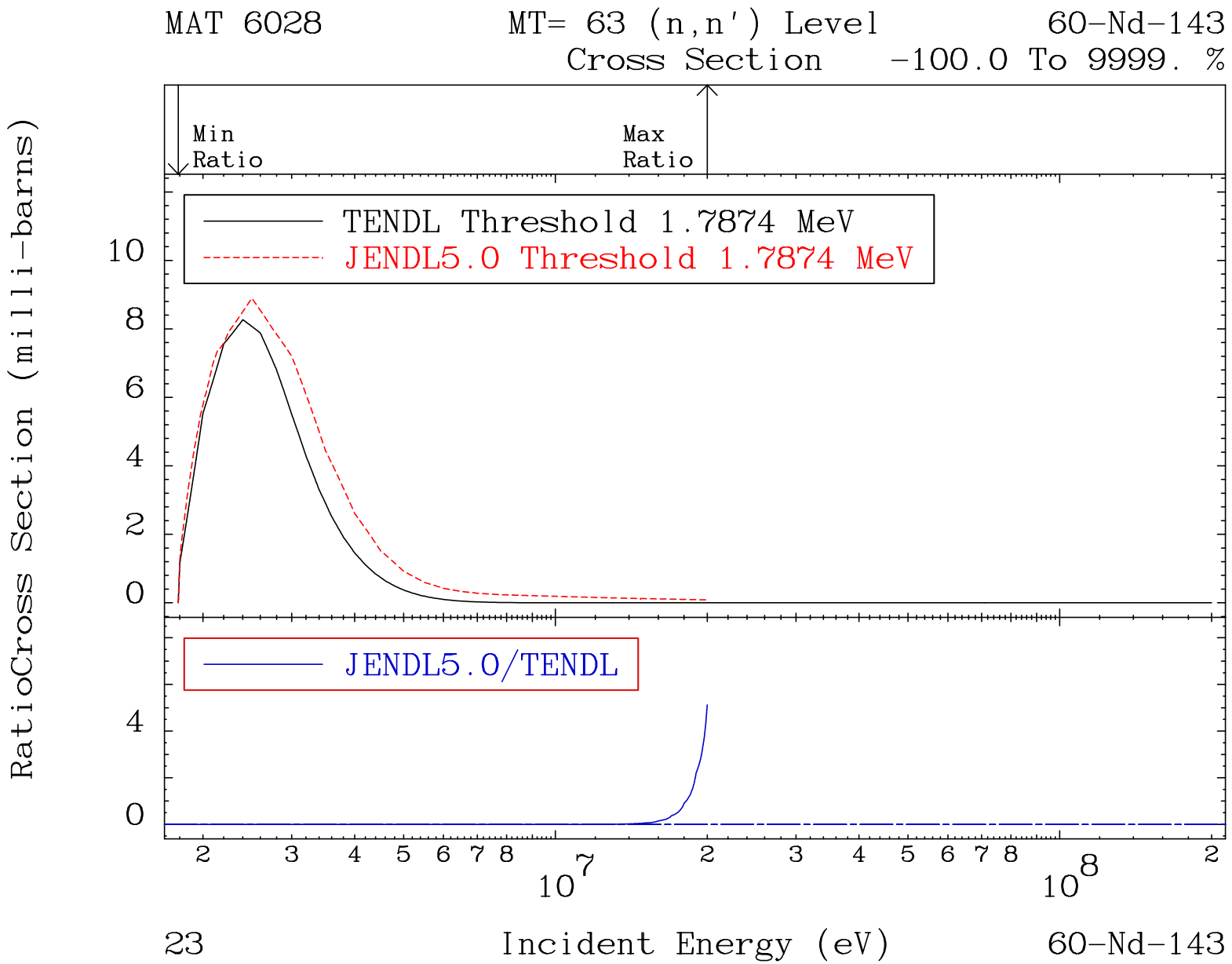

MAT 6028
MT= 58 (n,n') Level
60-Nd-143
Cross Section
-8.446 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5686 MeV
JENDL5.0 Threshold 1.5674 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
60-Nd-143

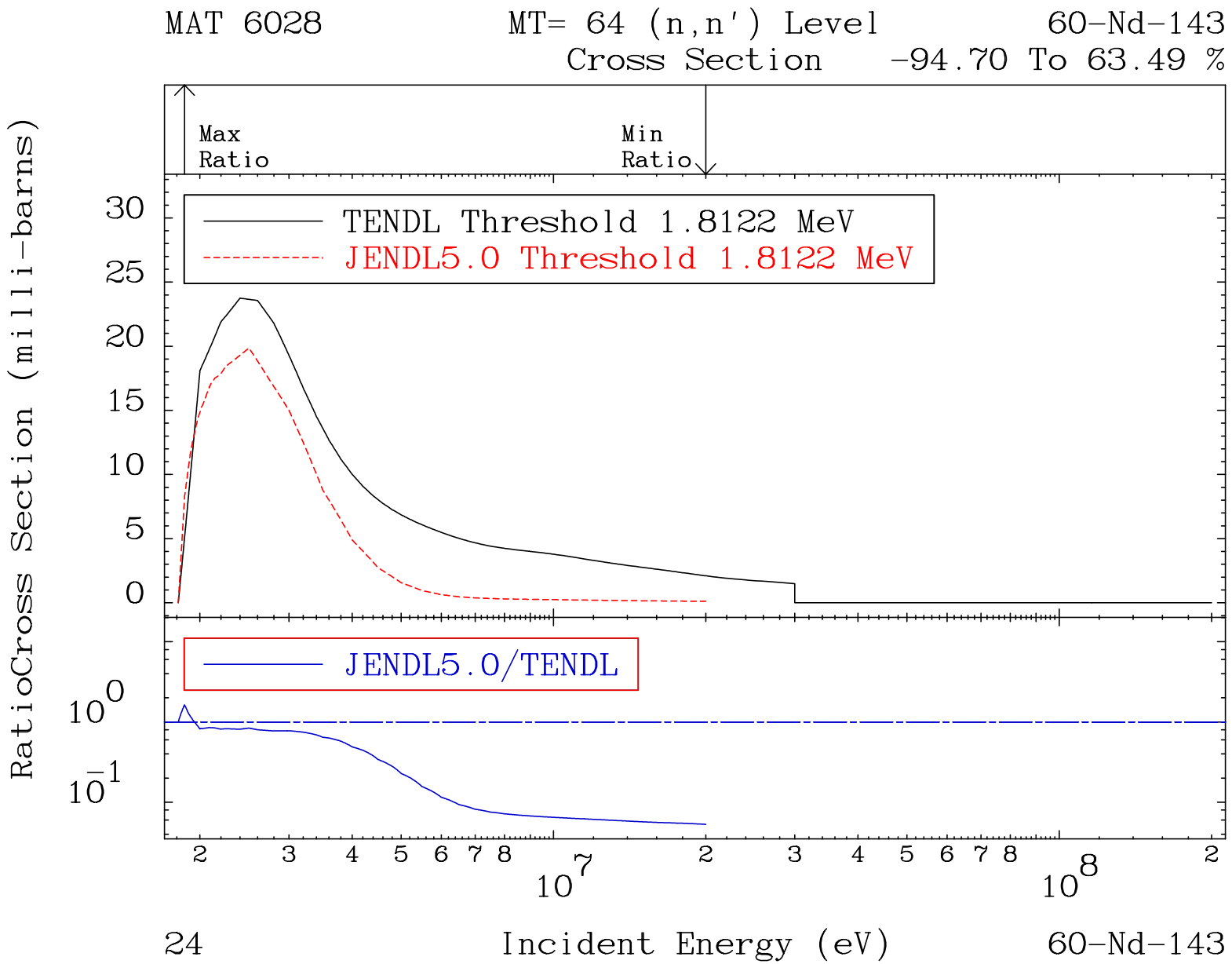

MAT 6028
MT= 59 (n,n') Level
60-Nd-143
Cross Section -51.62 To 57.29 %
Max Ratio
Min Ratio
TENDL Threshold 1.5698 MeV
JENDL5.0 Threshold 1.5698 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.8
1.2
0.6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
60-Nd-143

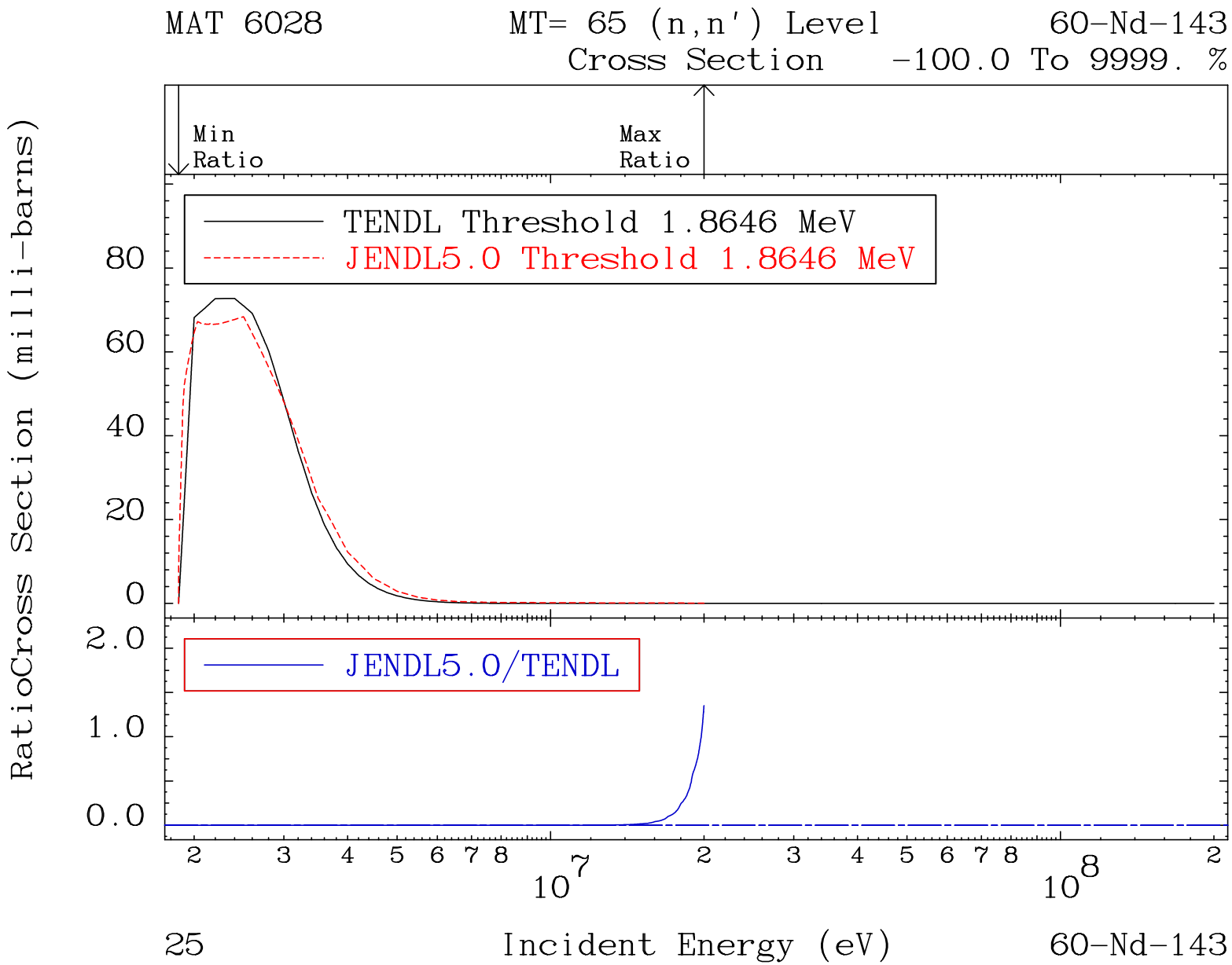

MAT 6028
MT= 60 (n,n') Level
60-Nd-143
Cross Section -4.494 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6197 MeV
JENDL5.0 Threshold 1.6197 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
20
60-Nd-143

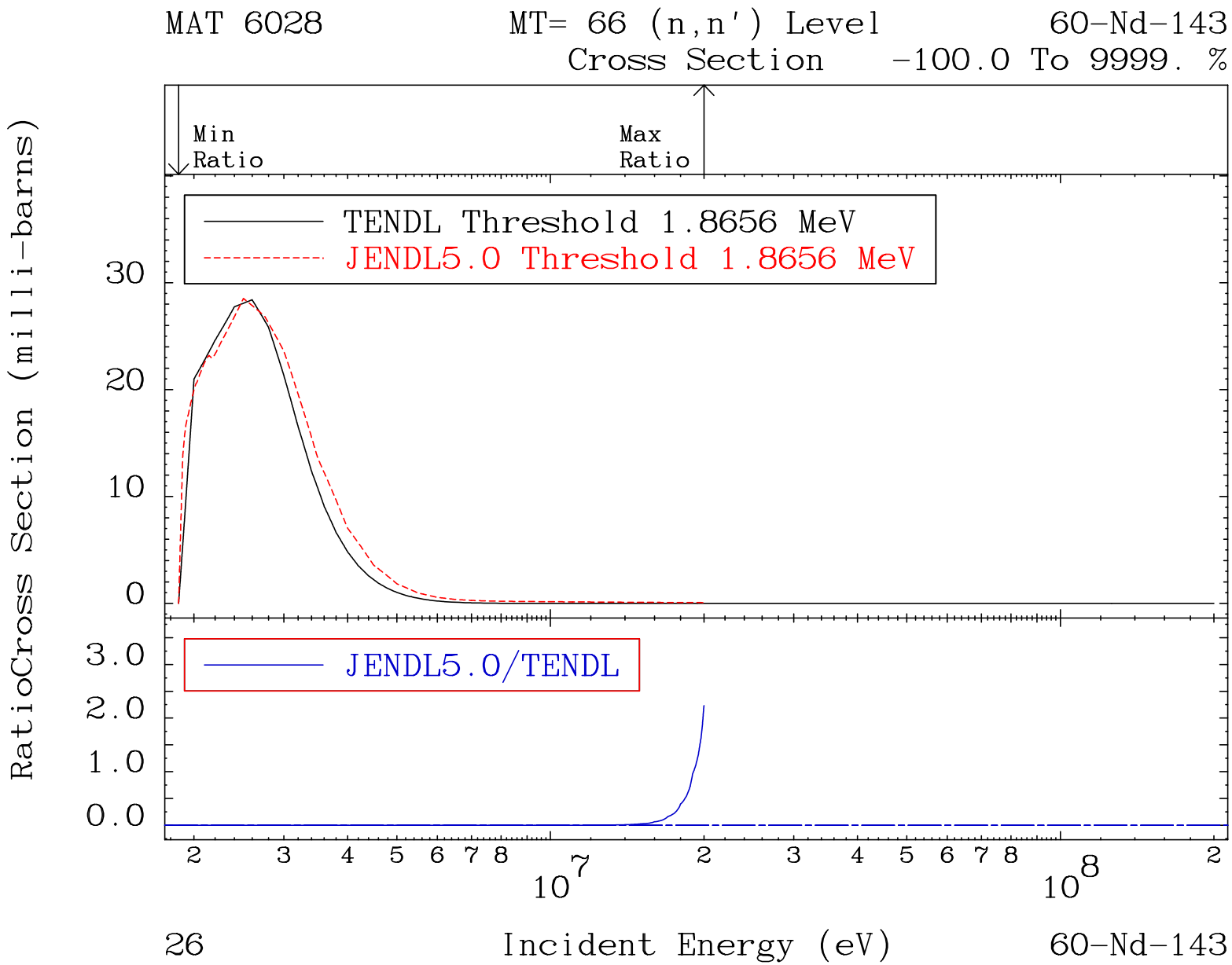

MAT 6028
MT= 61 (n,n') Level
60-Nd-143
Cross Section
-100.0 To -7.759%
Max
Ratio
TENDL Threshold 1.7019 MeV
JENDL5.0 Threshold 1.7019 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
60-Nd-143

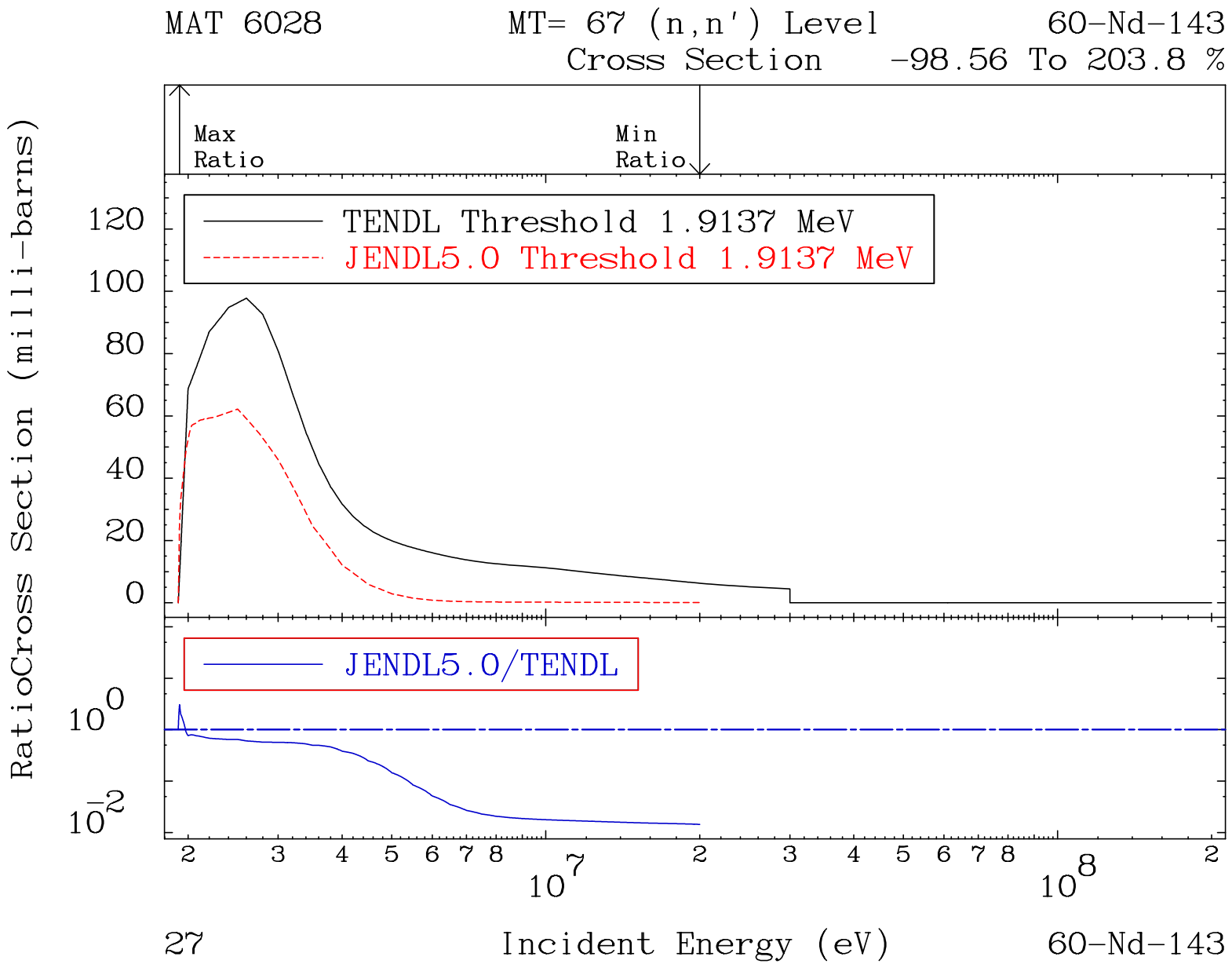

MAT 6028
MT= 62 (n,n') Level
60-Nd-143
Cross Section
-100.0 To 12.13 %
Max
Ratio
TENDL Threshold 1.7515 MeV
JENDL5.0 Threshold 1.7515 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2
3
4
5
6
7
8
10^7
10^8
22
Incident Energy (eV)
60-Nd-143

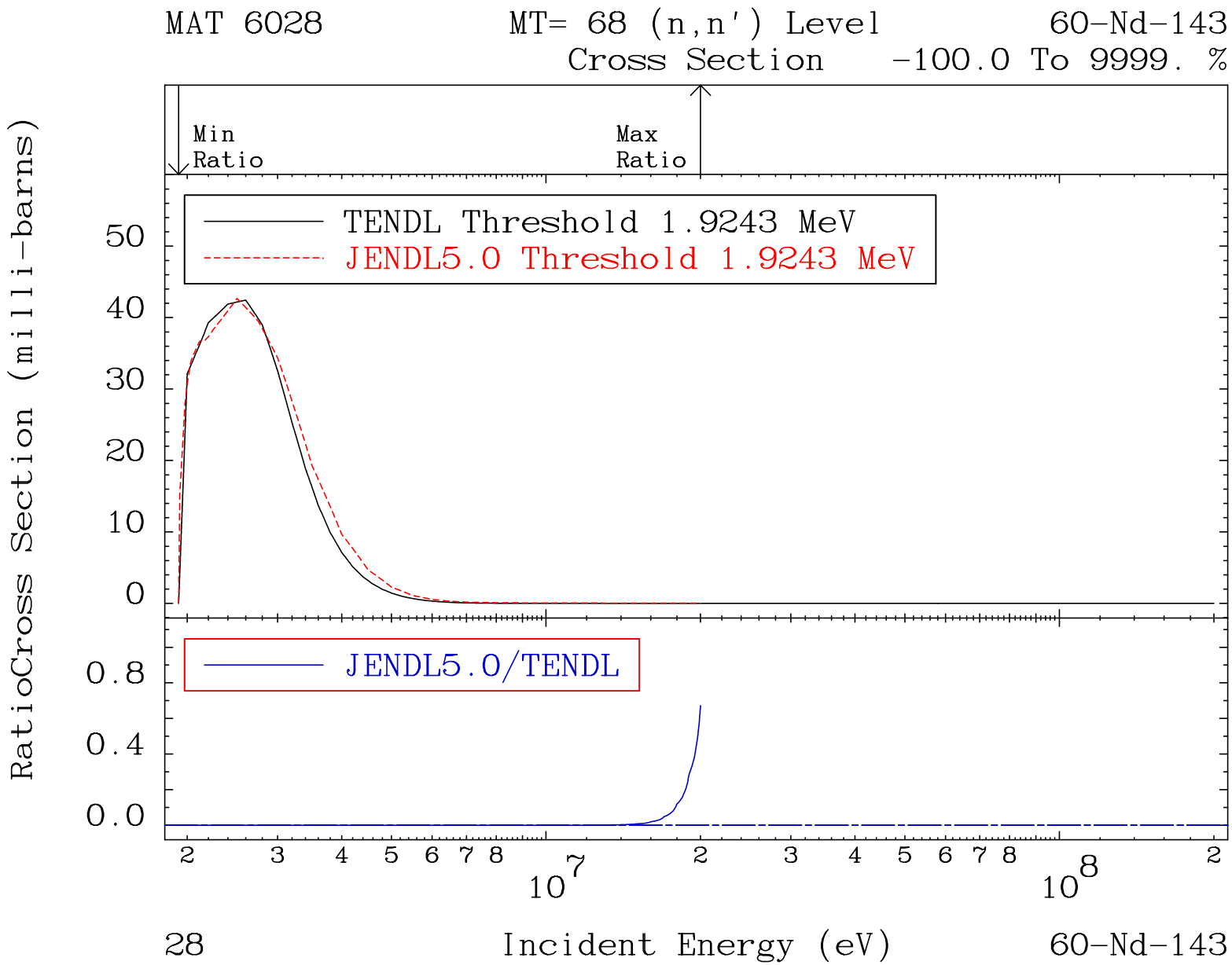

MAT 6028
MT= 63 (n,n') Level
60-Nd-143
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7874 MeV
JENDL5.0 Threshold 1.7874 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
60-Nd-143

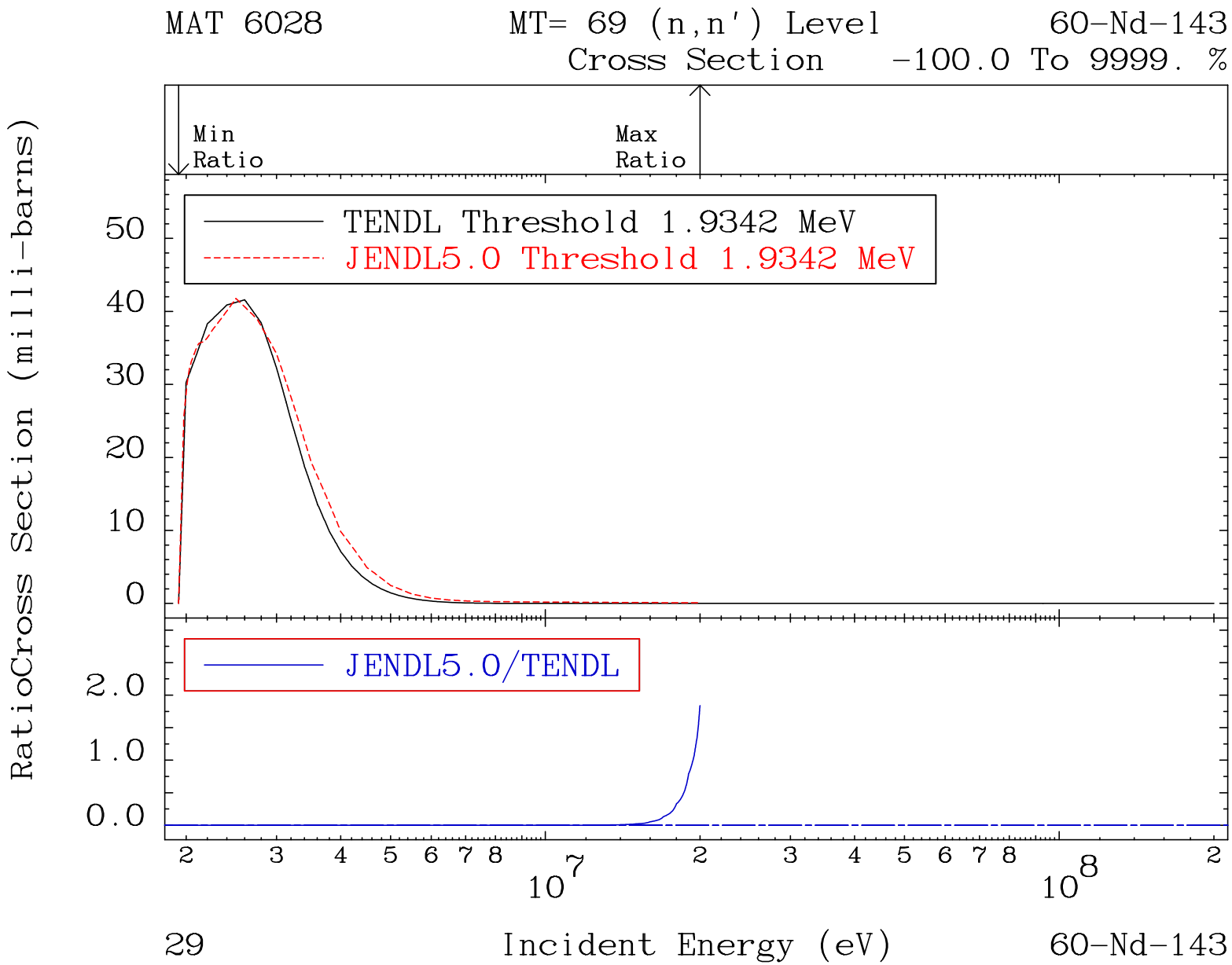

MAT 6028
MT= 64 (n,n') Level
60-Nd-143
Cross Section -94.70 To 63.49 %
Max Ratio
Min Ratio
TENDL Threshold 1.8122 MeV
JENDL5.0 Threshold 1.8122 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
60-Nd-143

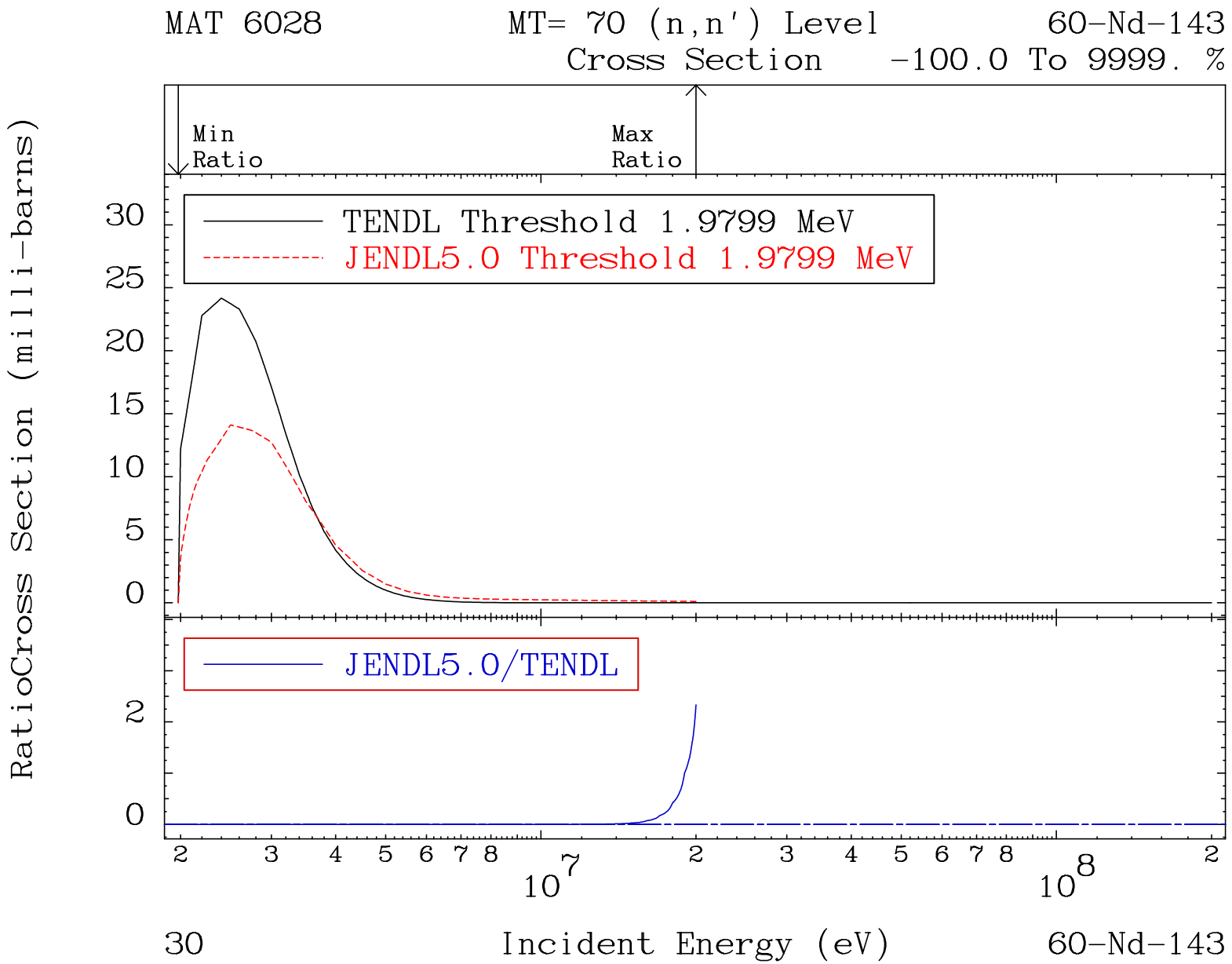

MAT 6028
MT= 65 (n,n') Level
60-Nd-143
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8646 MeV
JENDL5.0 Threshold 1.8646 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
60-Nd-143

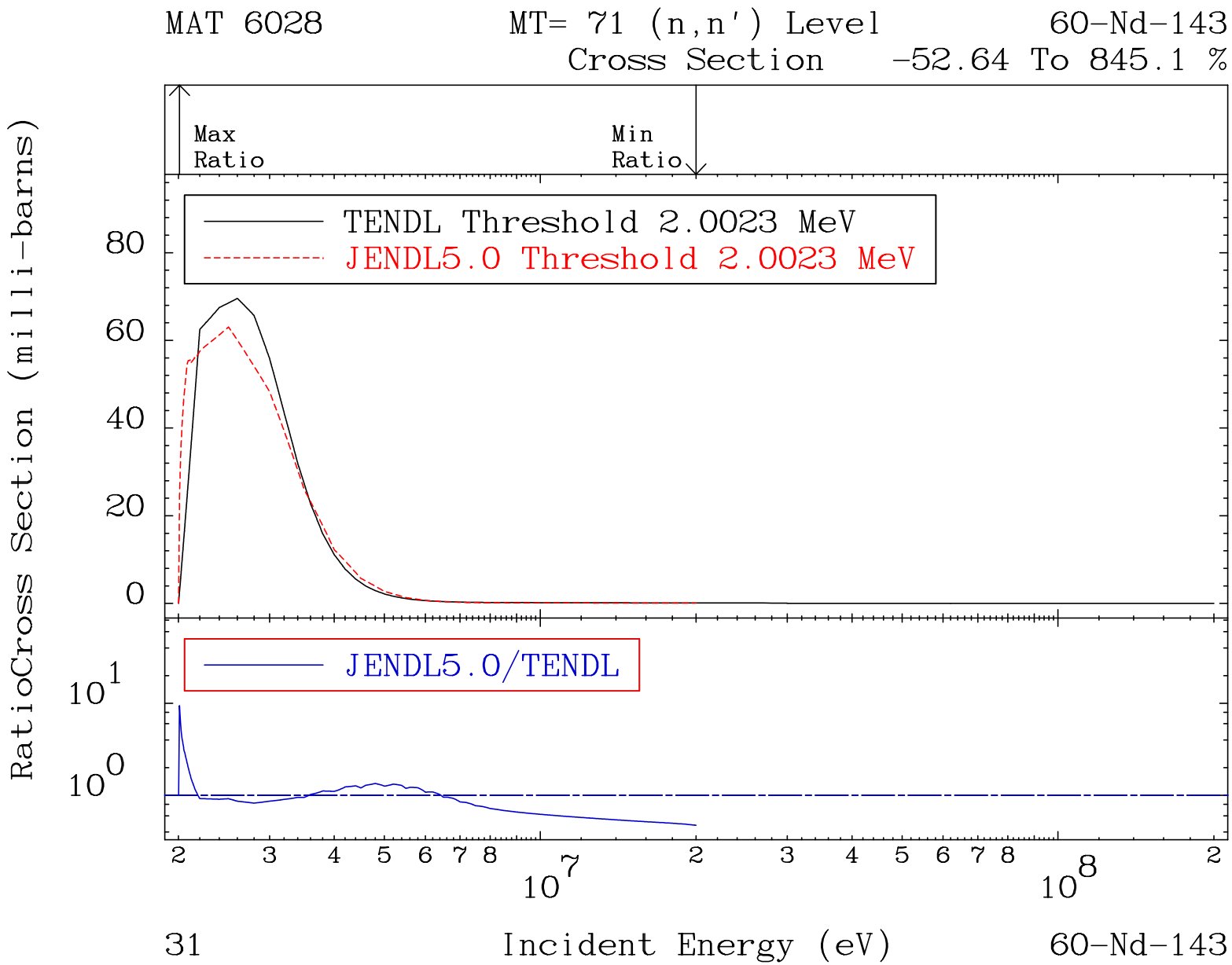

MAT 6028
MT= 66 (n,n') Level
60-Nd-143
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8656 MeV
JENDL5.0 Threshold 1.8656 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
60-Nd-143

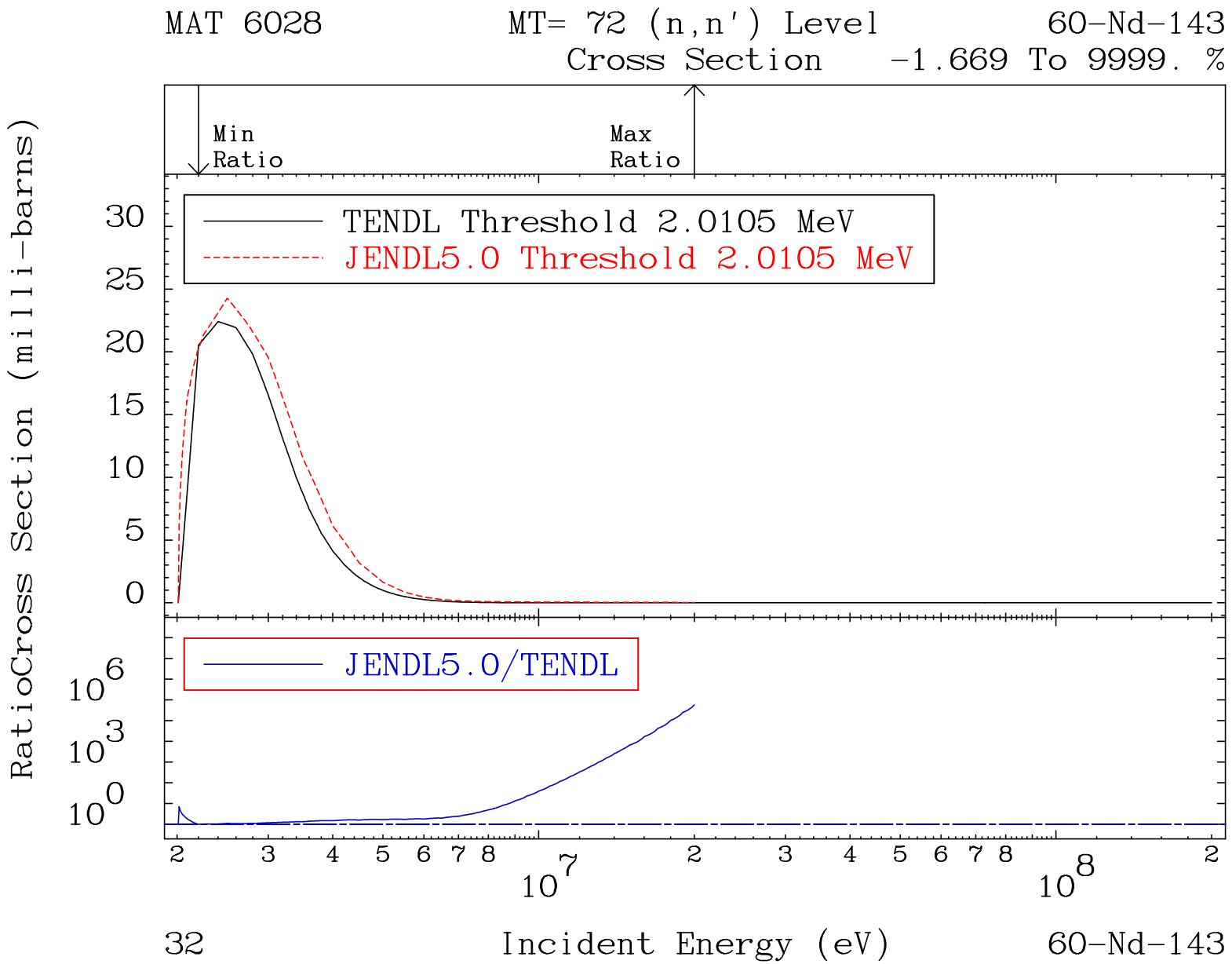

MAT 6028
MT= 67 (n,n') Level
60-Nd-143
Cross Section -98.56 To 203.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.9137 MeV
JENDL5.0 Threshold 1.9137 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^0
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
27
60-Nd-143

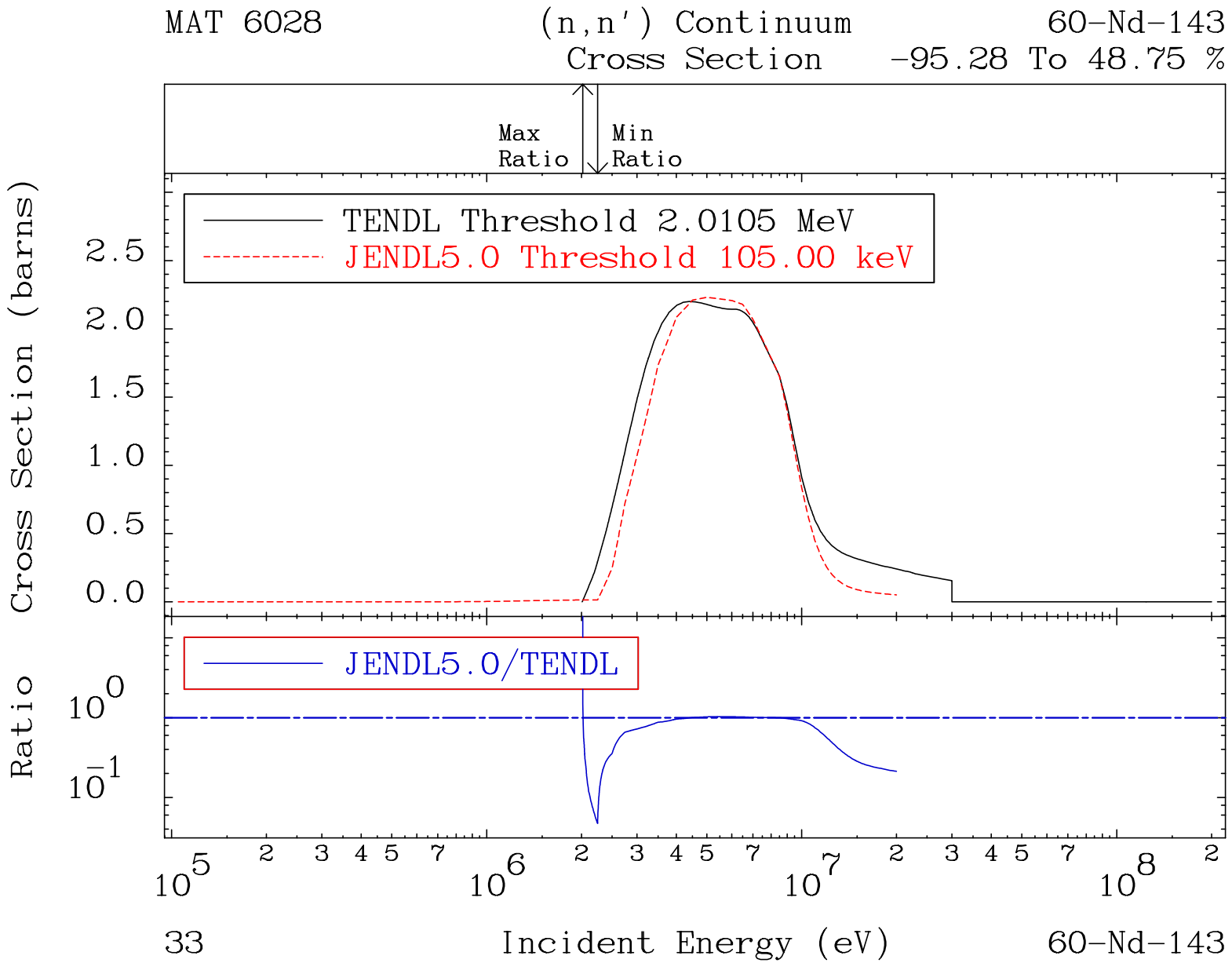

MAT 6028
MT= 68 (n,n') Level
60-Nd-143
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9243 MeV
JENDL5.0 Threshold 1.9243 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
60-Nd-143

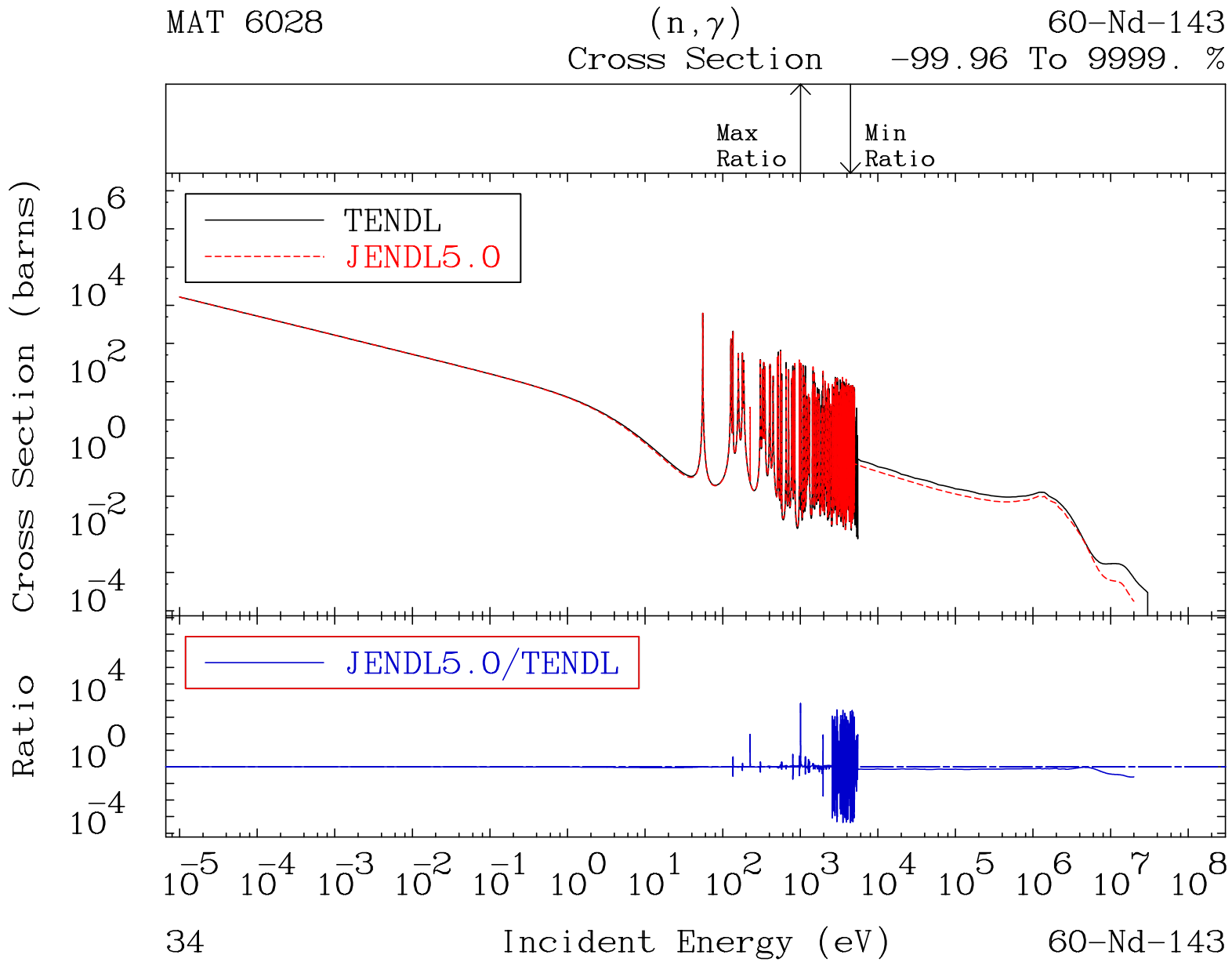

MAT 6028
MT= 69 (n,n') Level
60-Nd-143
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9342 MeV
JENDL5.0 Threshold 1.9342 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
60-Nd-143

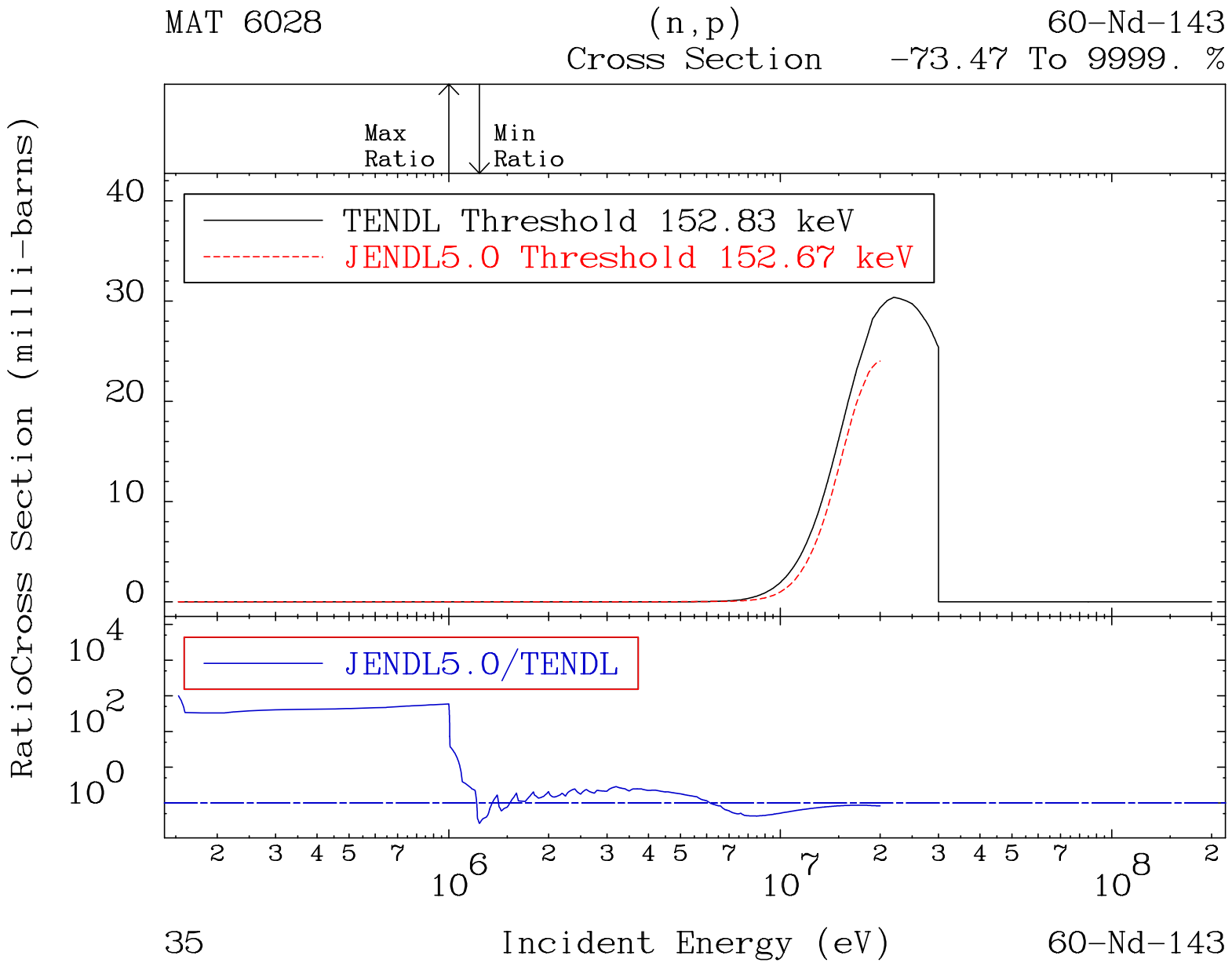

MAT 6028
MT= 70 (n,n') Level
60-Nd-143
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9799 MeV
JENDL5.0 Threshold 1.9799 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
60-Nd-143

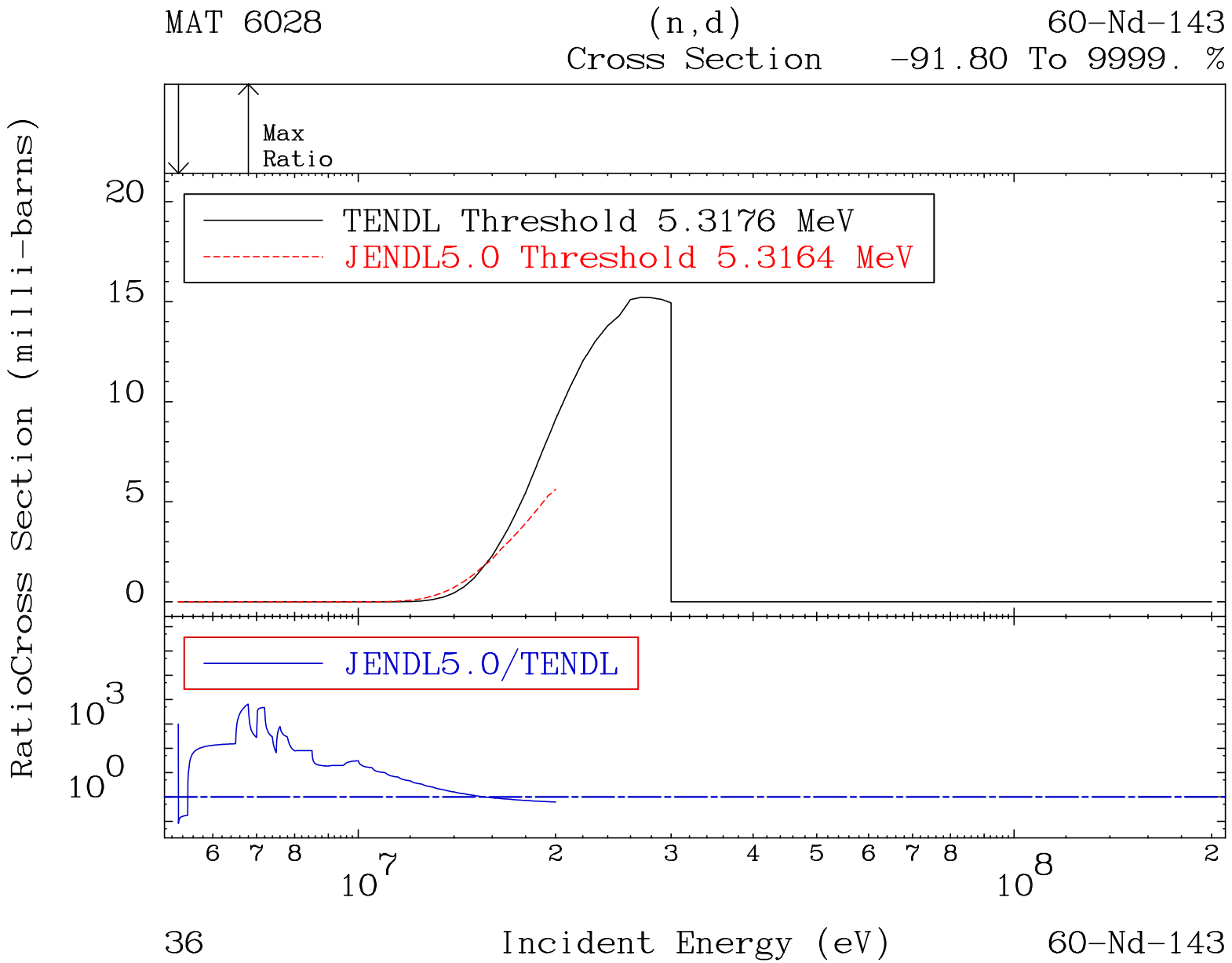

MAT 6028
MT= 71 (n,n') Level
60-Nd-143
Cross Section -52.64 To 845.1 %
Max Ratio
Min Ratio
TENDL Threshold 2.0023 MeV
JENDL5.0 Threshold 2.0023 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^1
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
60-Nd-143

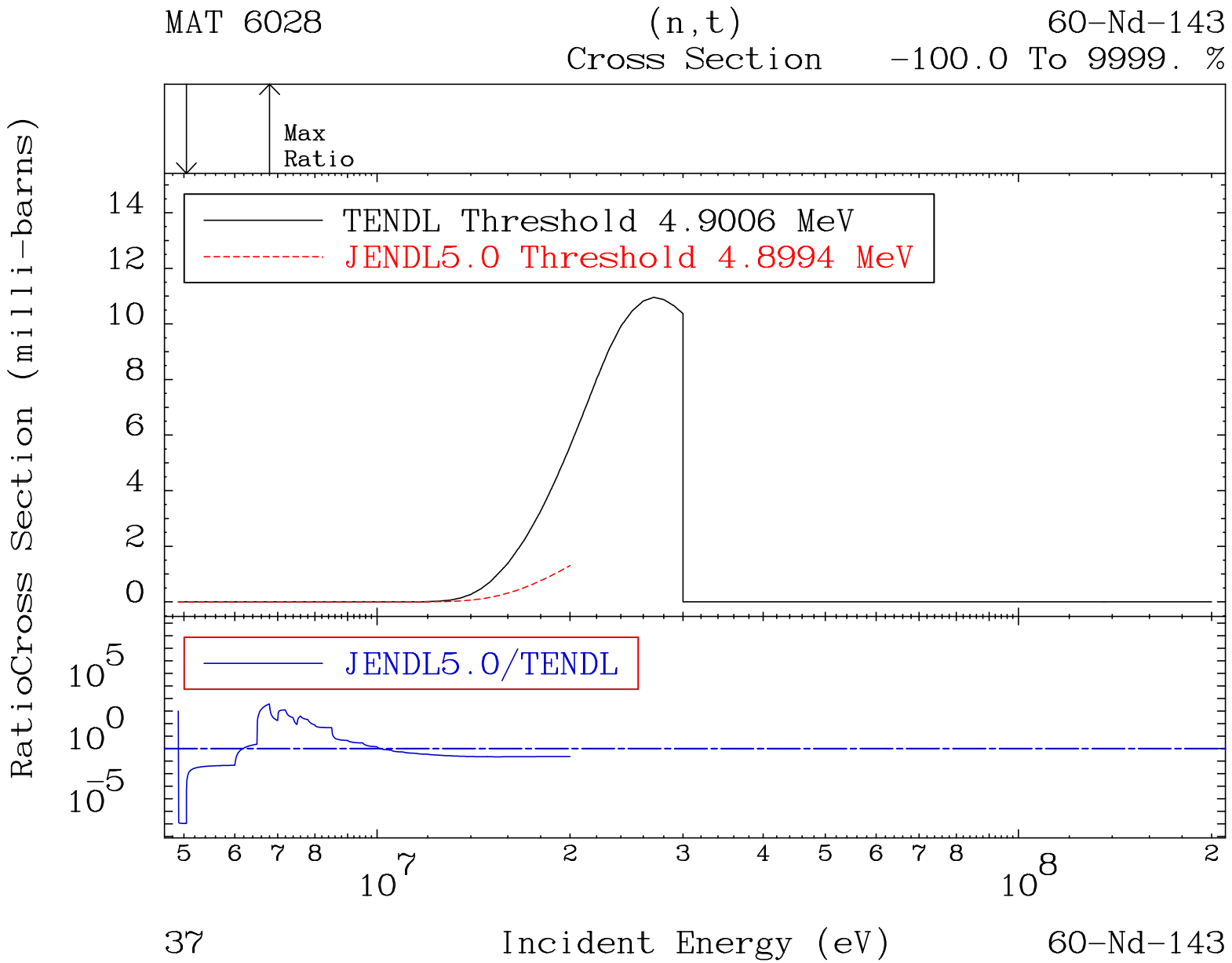

MAT 6028
MT= 72 (n,n') Level
60-Nd-143
Cross Section -1.669 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0105 MeV
JENDL5.0 Threshold 2.0105 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
60-Nd-143

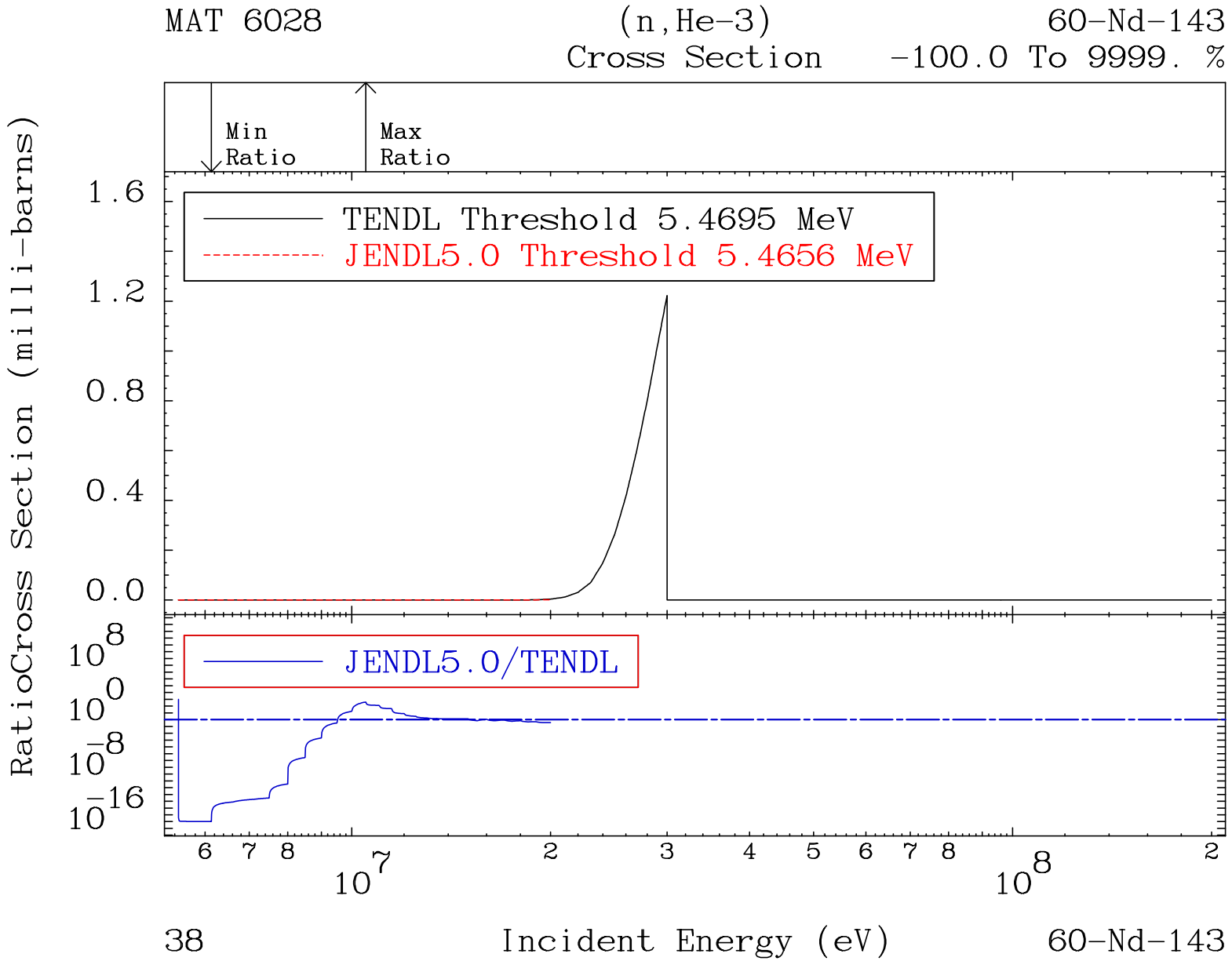

MAT 6028
(n,n') Continuum
Cross Section
60-Nd-143
-95.28 To 48.75 %
Max Ratio
Min Ratio
TENDL Threshold 2.0105 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
10^0
10^{-1}
10^5
10^6
10^7
10^8
2 3 4 5 7
33
Incident Energy (eV)
60-Nd-143

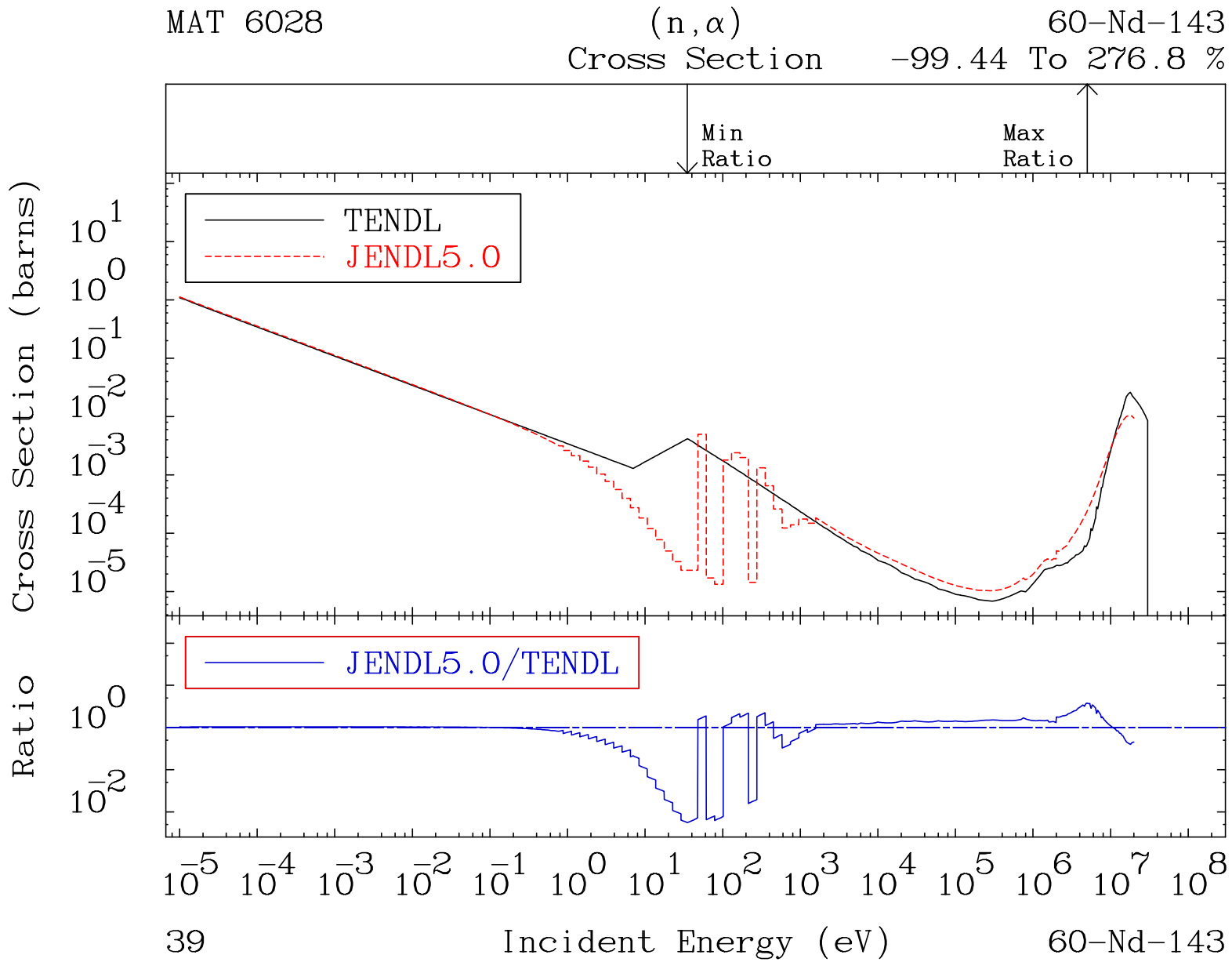

MAT 6028
(n,γ)
Cross Section
60-Nd-143
-99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
60-Nd-143

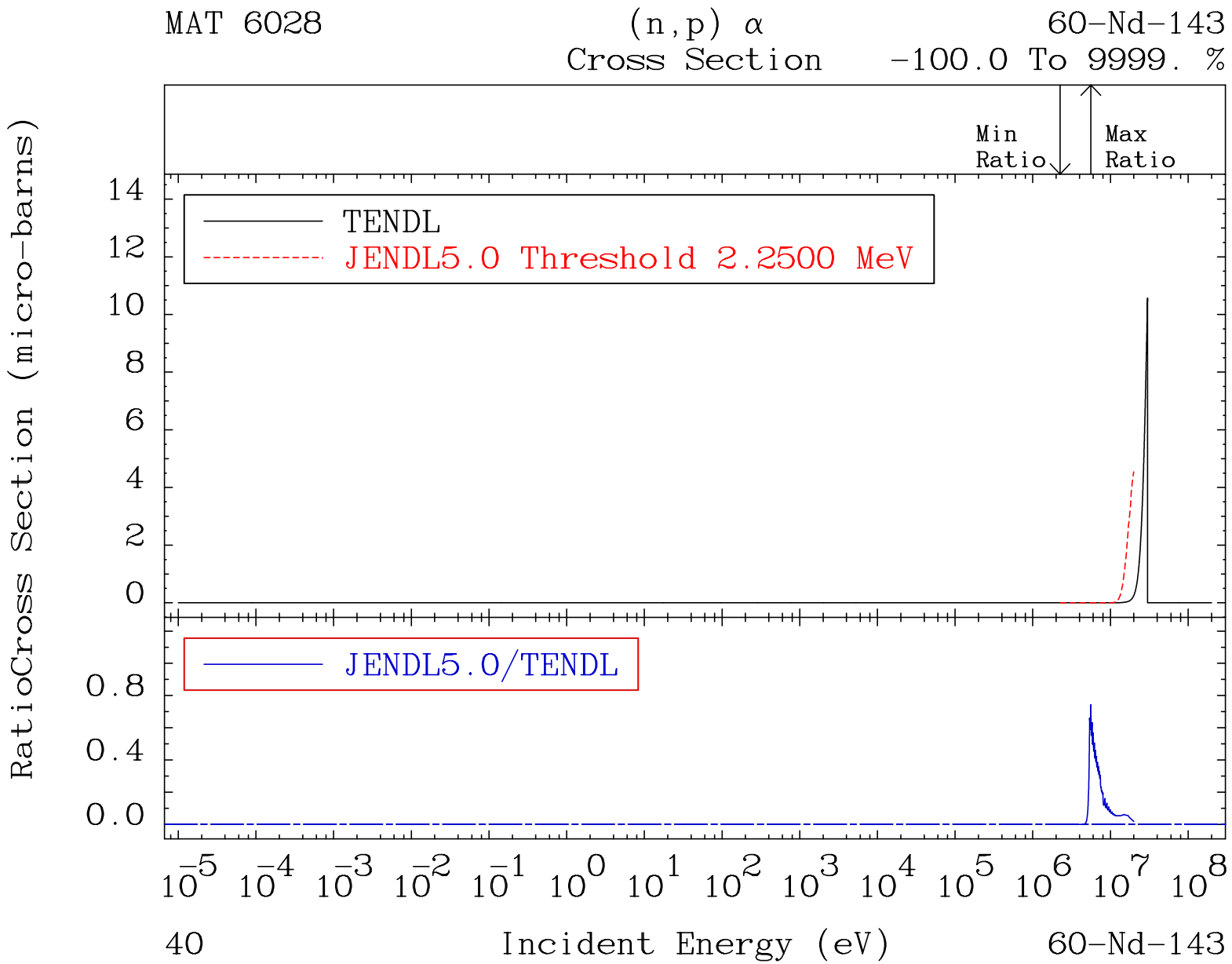

MAT 6028
(n,p)
Cross Section
60-Nd-143
-73.47 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 152.83 keV
JENDL5.0 Threshold 152.67 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^4
10^2
10^0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
35
Incident Energy (eV)
60-Nd-143

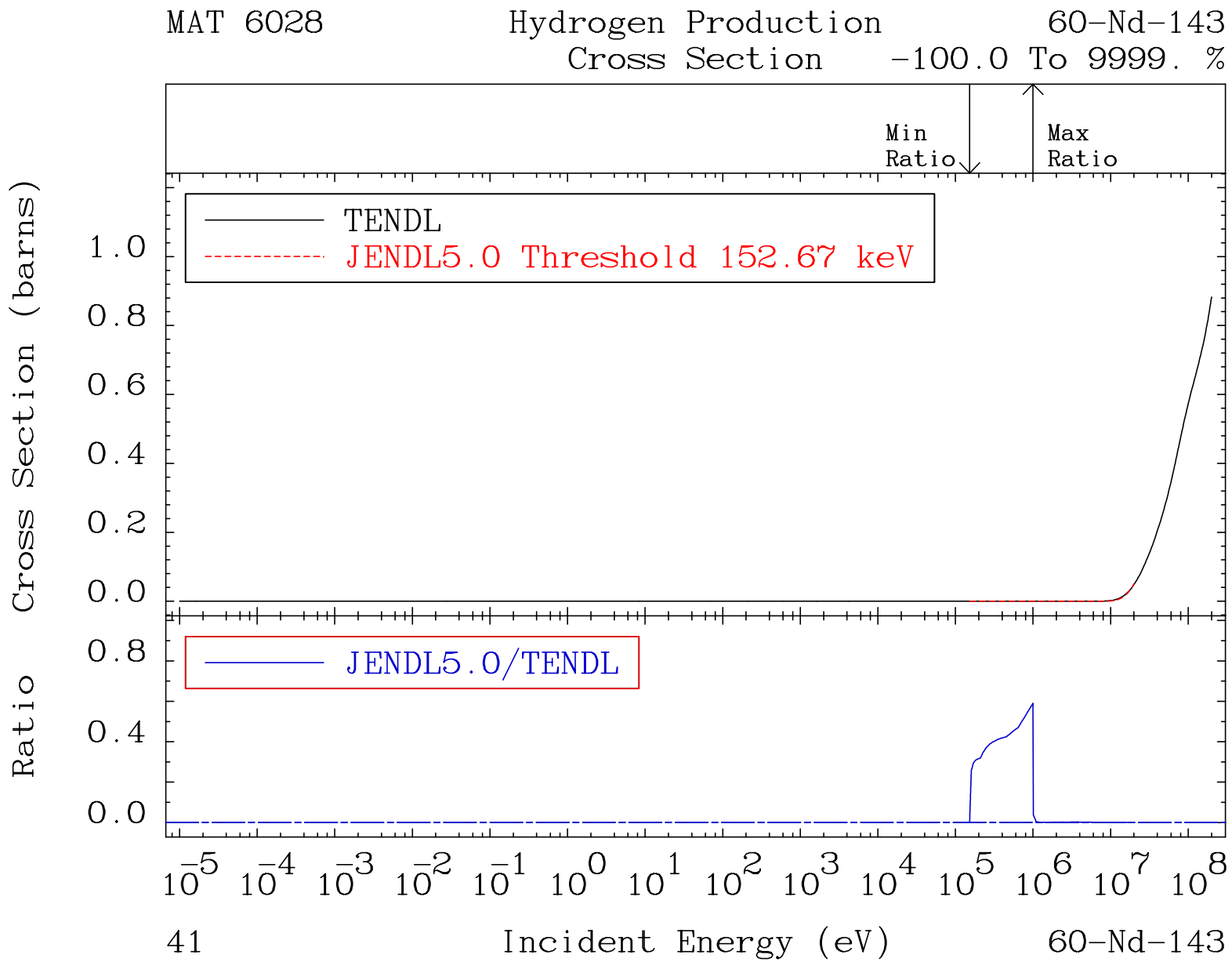

MAT 6028
(n,d)
Cross Section
60-Nd-143
-91.80 To 9999. %
Max
Ratio
TENDL Threshold 5.3176 MeV
JENDL5.0 Threshold 5.3164 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^3
10^0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
60-Nd-143

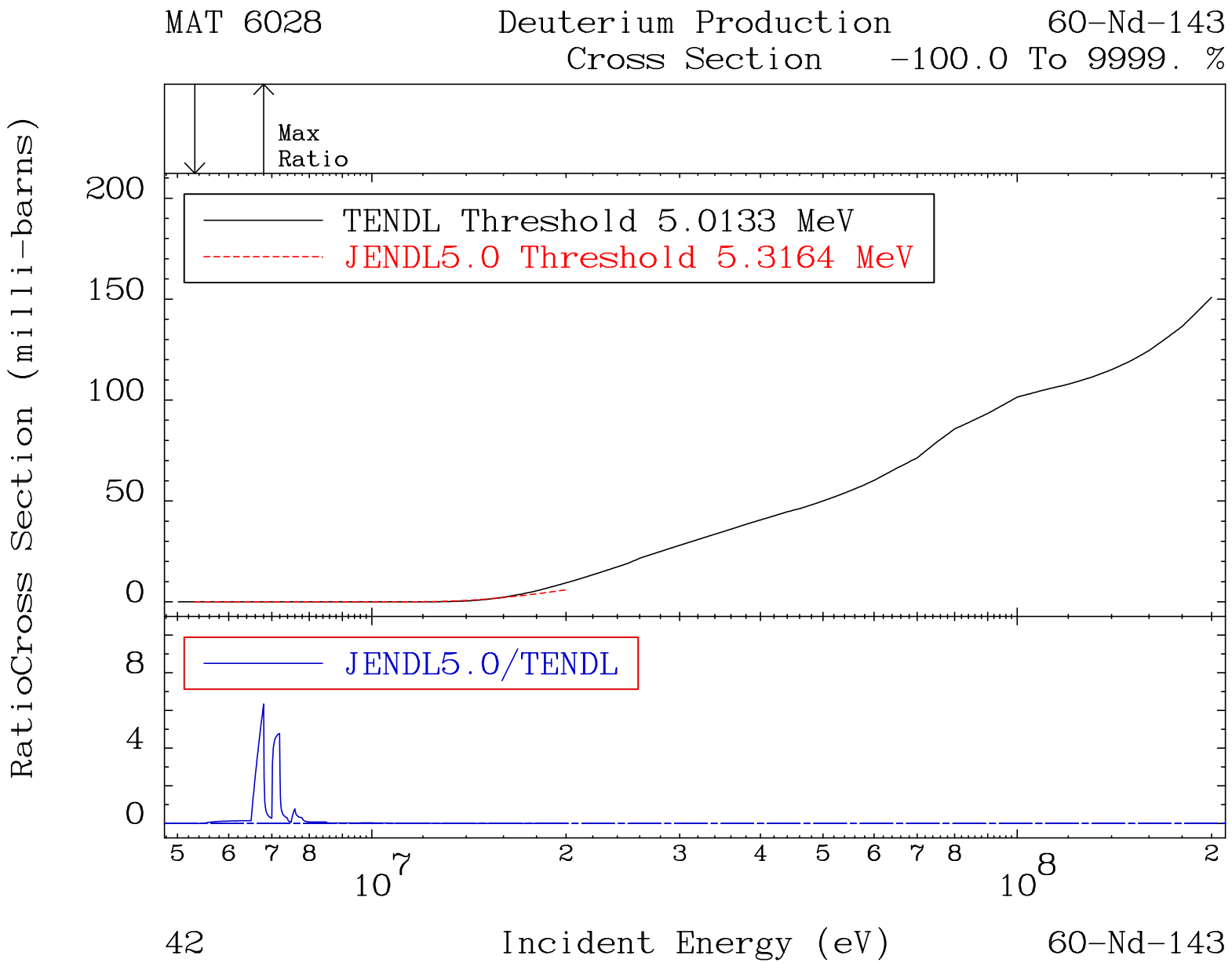

MAT 6028
(n,t)
Cross Section
60-Nd-143
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.9006 MeV
JENDL5.0 Threshold 4.8994 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
10^5
10^0
10^-5
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
60-Nd-143

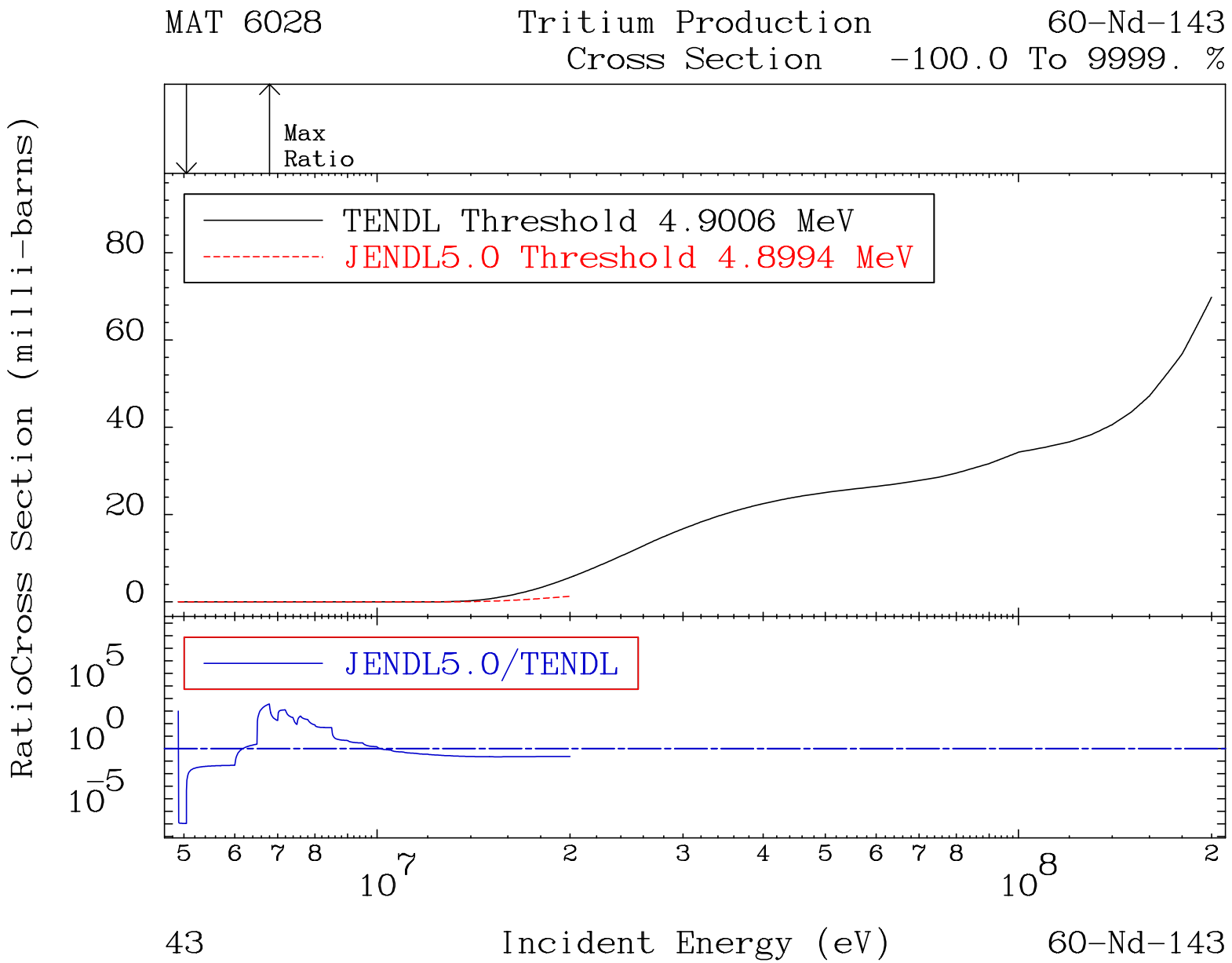

MAT 6028
(n,He-3)
Cross Section
60-Nd-143
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.4695 MeV
JENDL5.0 Threshold 5.4656 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
10^8
10^0
10^-8
10^-16
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
60-Nd-143

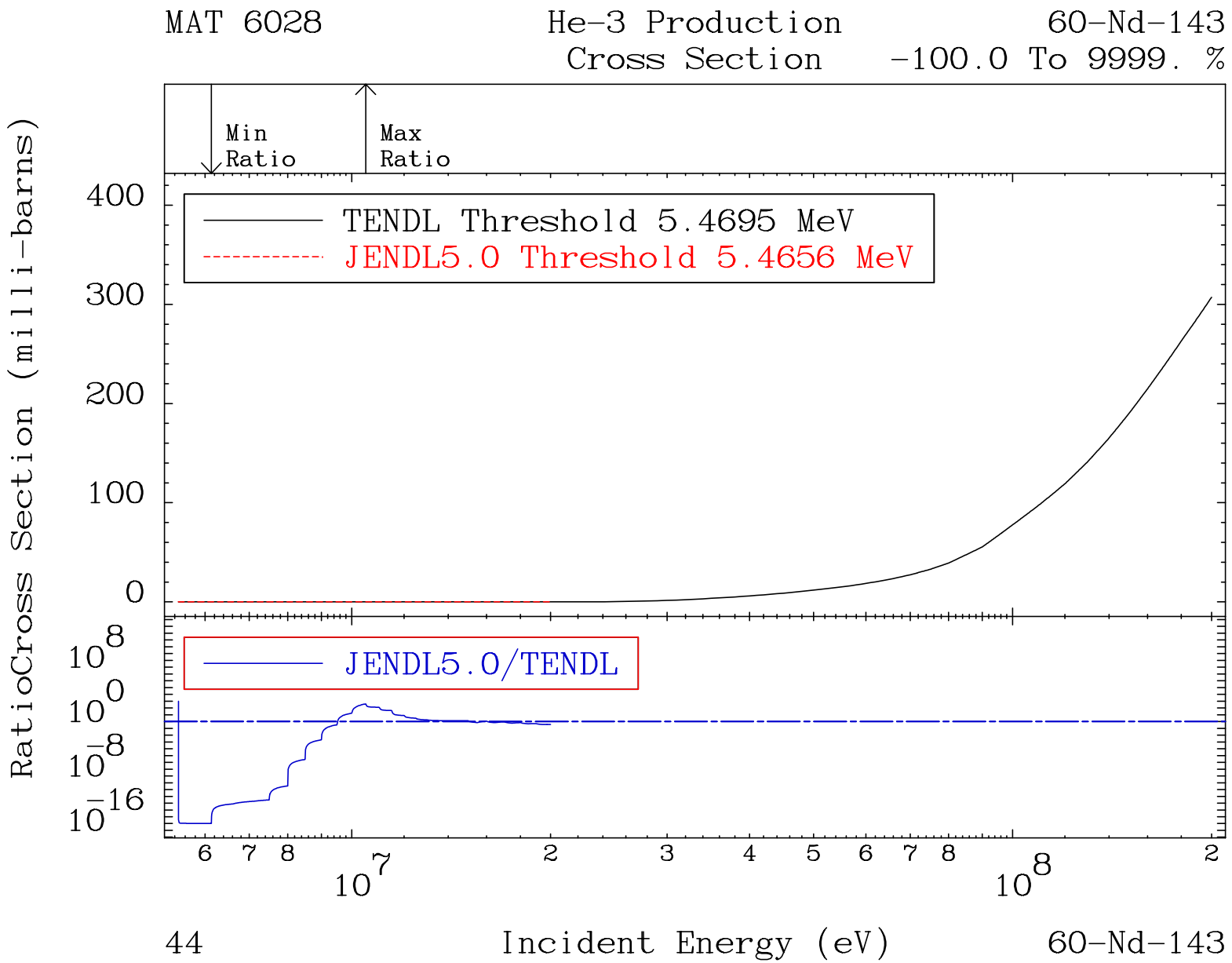

MAT 6028
(n,α)
Cross Section
60-Nd-143
-99.44 To 276.8 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
60-Nd-143

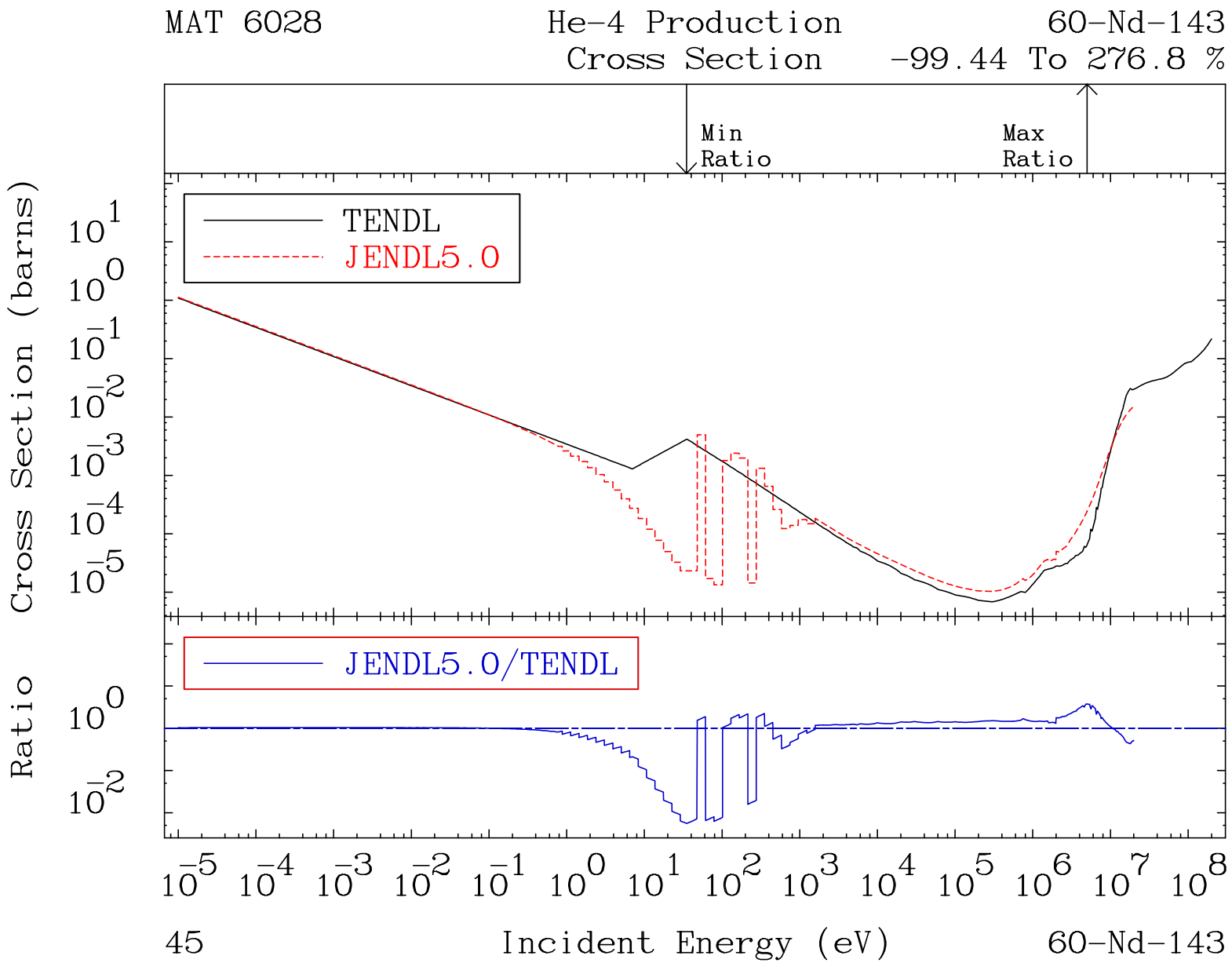

MAT 6028
(n,p) α
Cross Section
60-Nd-143
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 2.2500 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
40
60-Nd-143

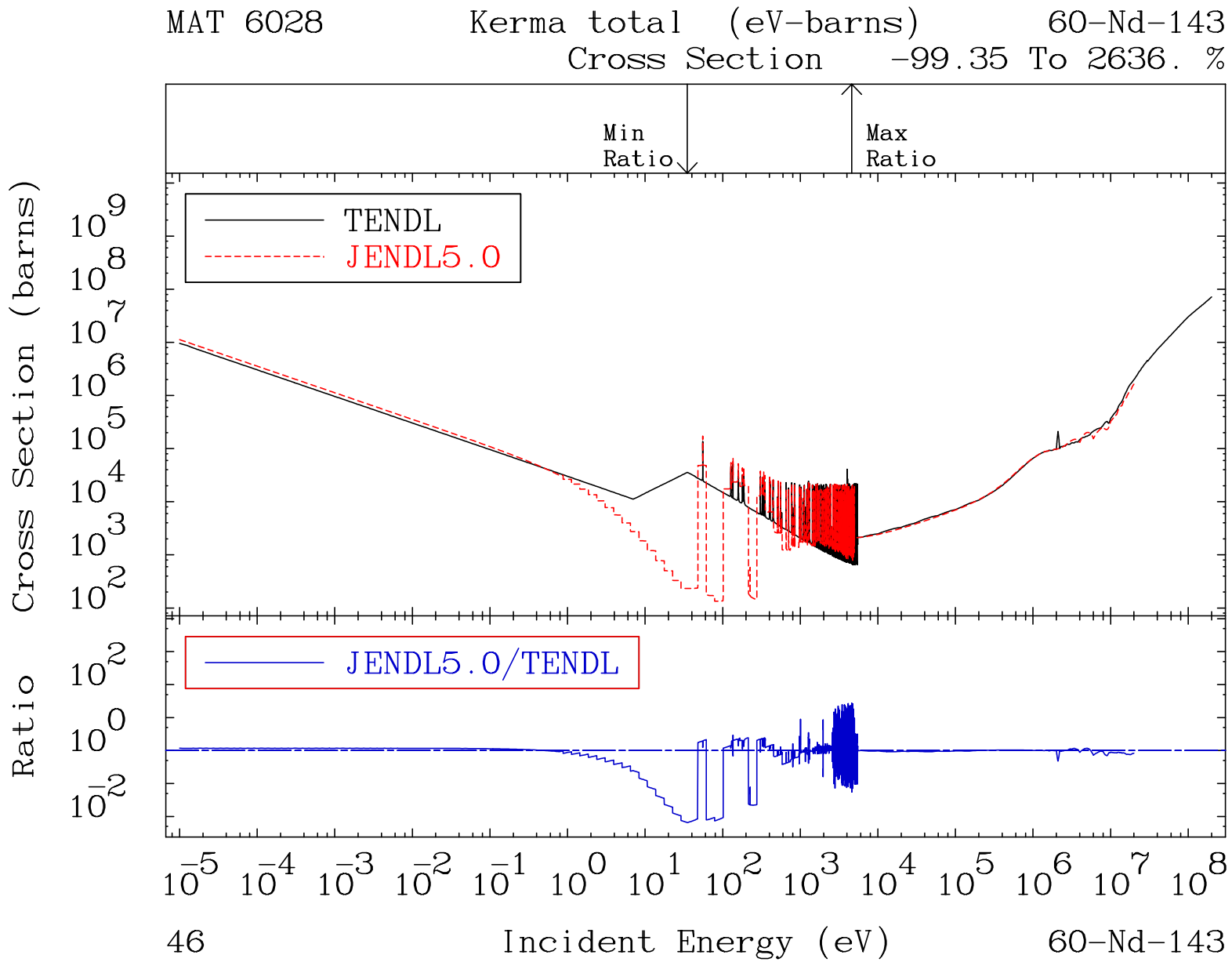

MAT 6028
Hydrogen Production
Cross Section
60-Nd-143
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 152.67 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
41
Incident Energy (eV)
60-Nd-143

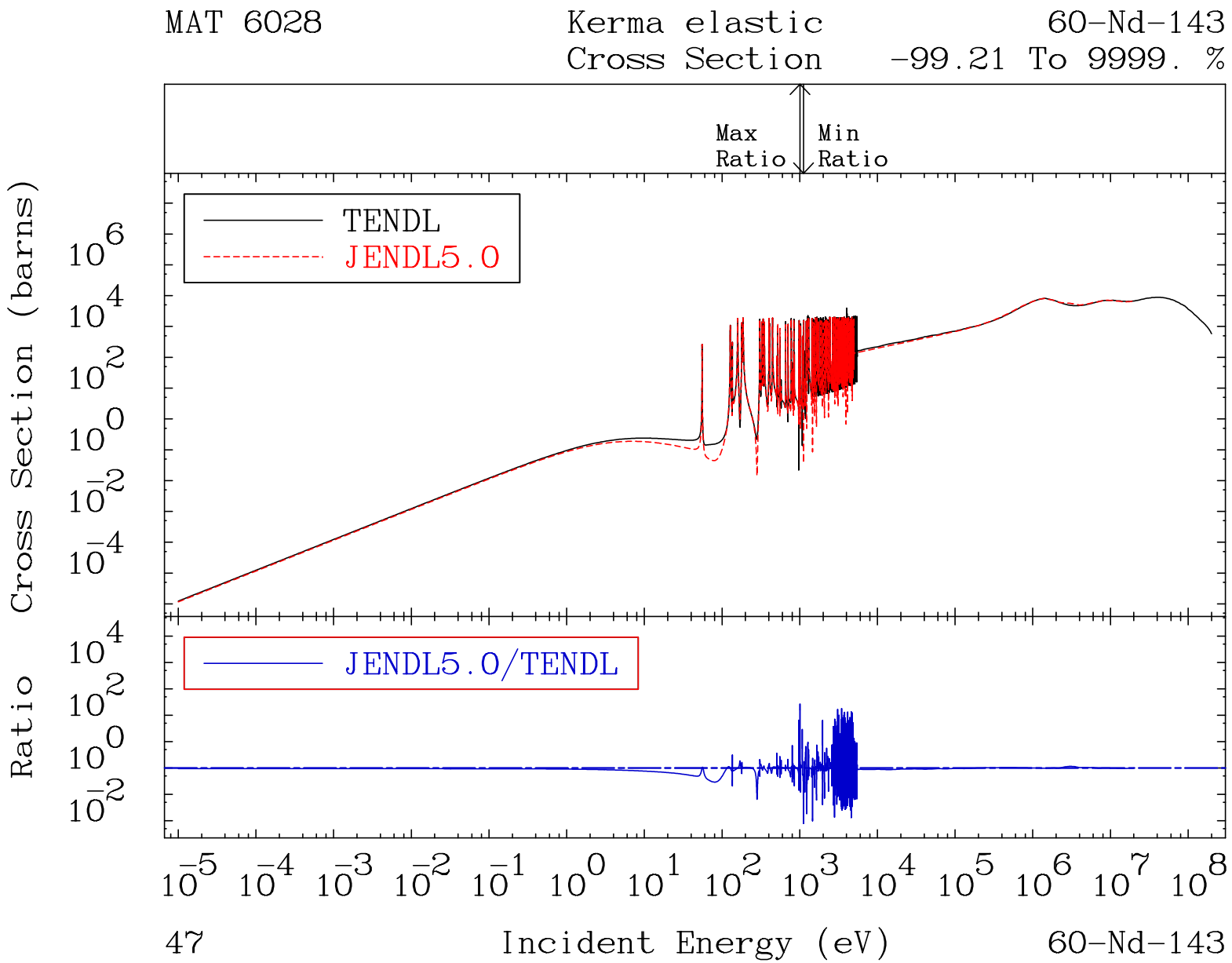

MAT 6028
Deuterium Production
60-Nd-143
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.0133 MeV
JENDL5.0 Threshold 5.3164 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
8
4
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
42
Incident Energy (eV)
60-Nd-143

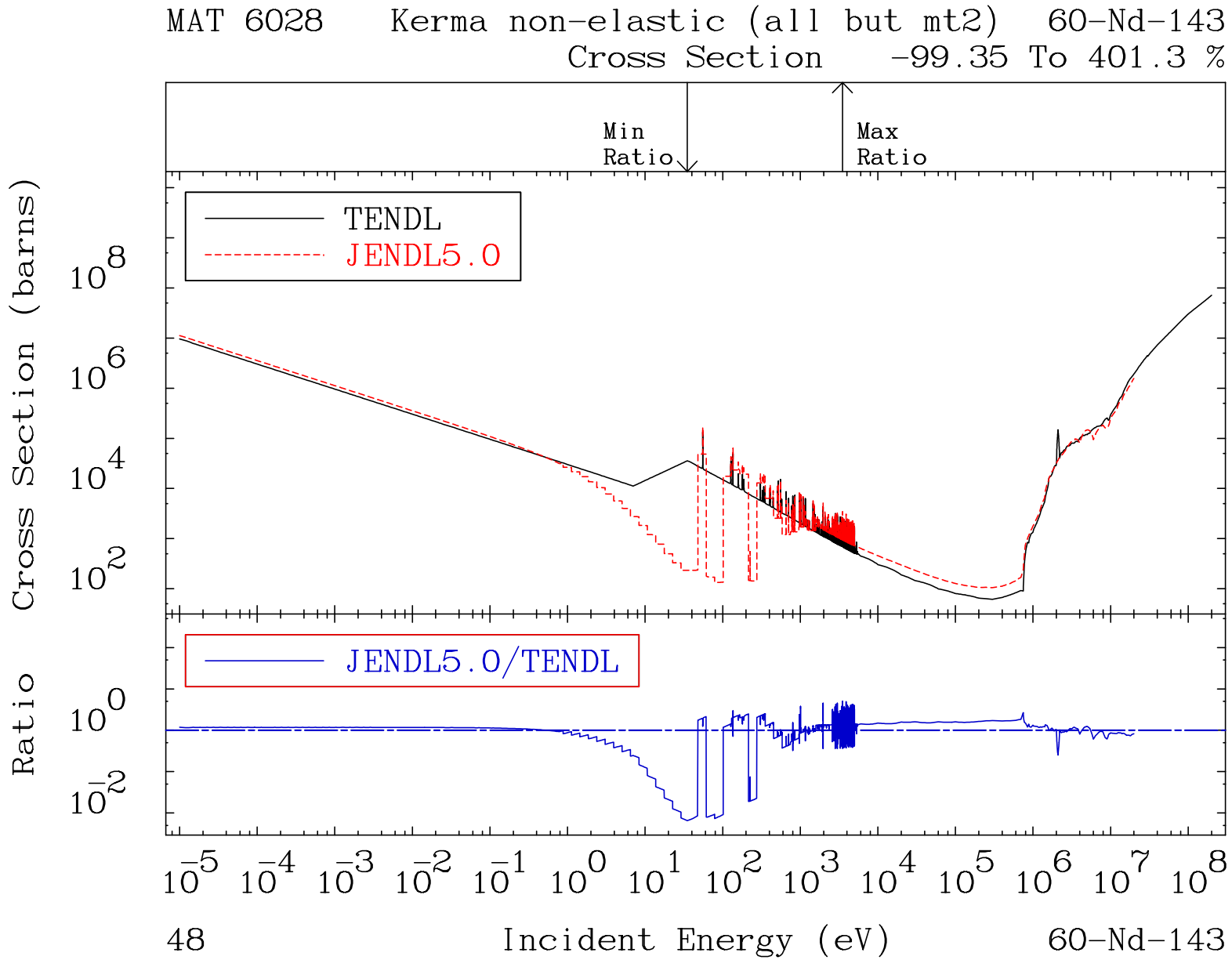

MAT 6028
Tritium Production
Cross Section
60-Nd-143
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.9006 MeV
JENDL5.0 Threshold 4.8994 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^5
10^0
10^-5
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
43
Incident Energy (eV)
60-Nd-143

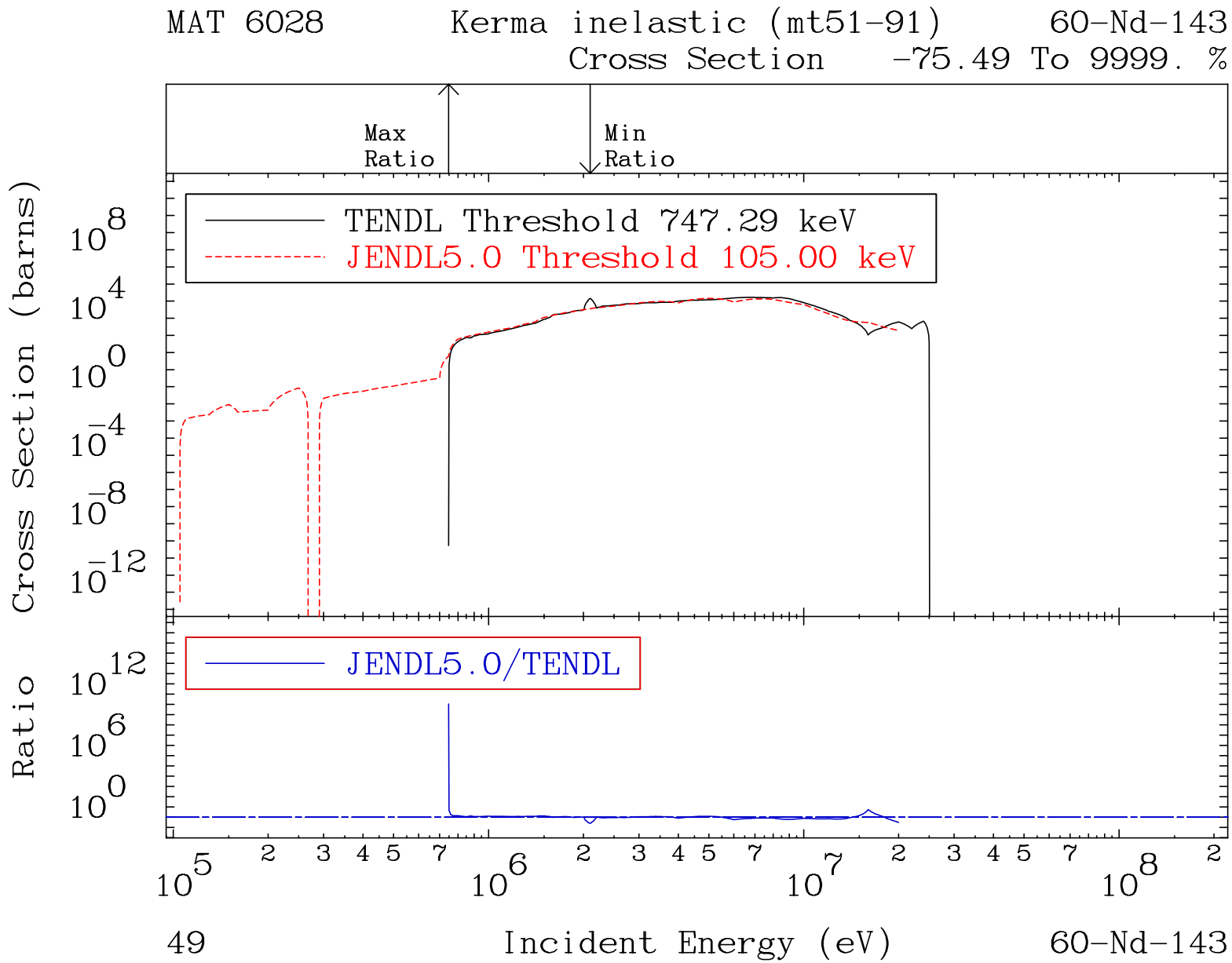

MAT 6028
He-3 Production
Cross Section
60-Nd-143
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.4695 MeV
JENDL5.0 Threshold 5.4656 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^8
10^0
10^-8
10^-16
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
44
60-Nd-143

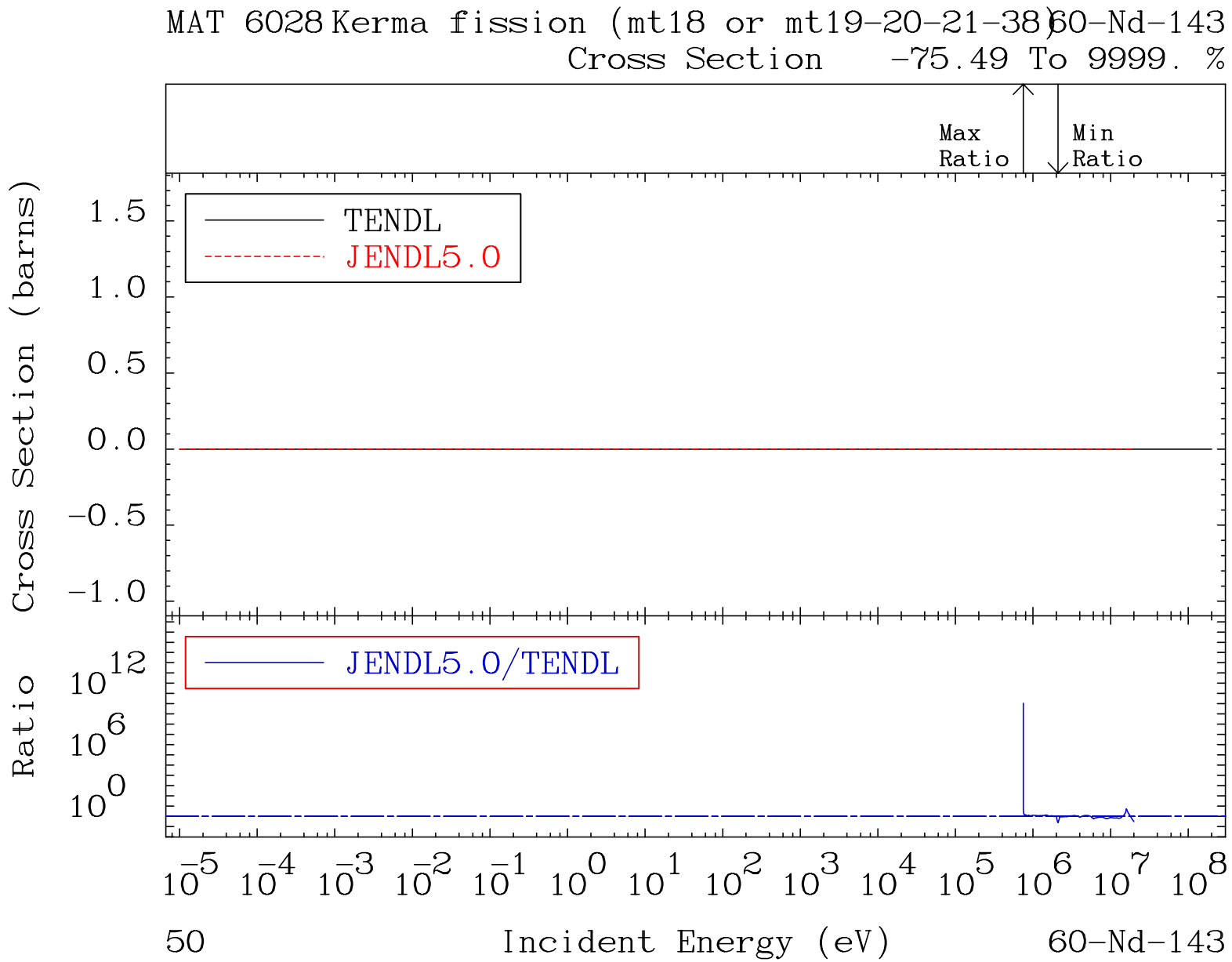

MAT 6028
He-4 Production
Cross Section
60-Nd-143
-99.44 To 276.8 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
45
Incident Energy (eV)
60-Nd-143

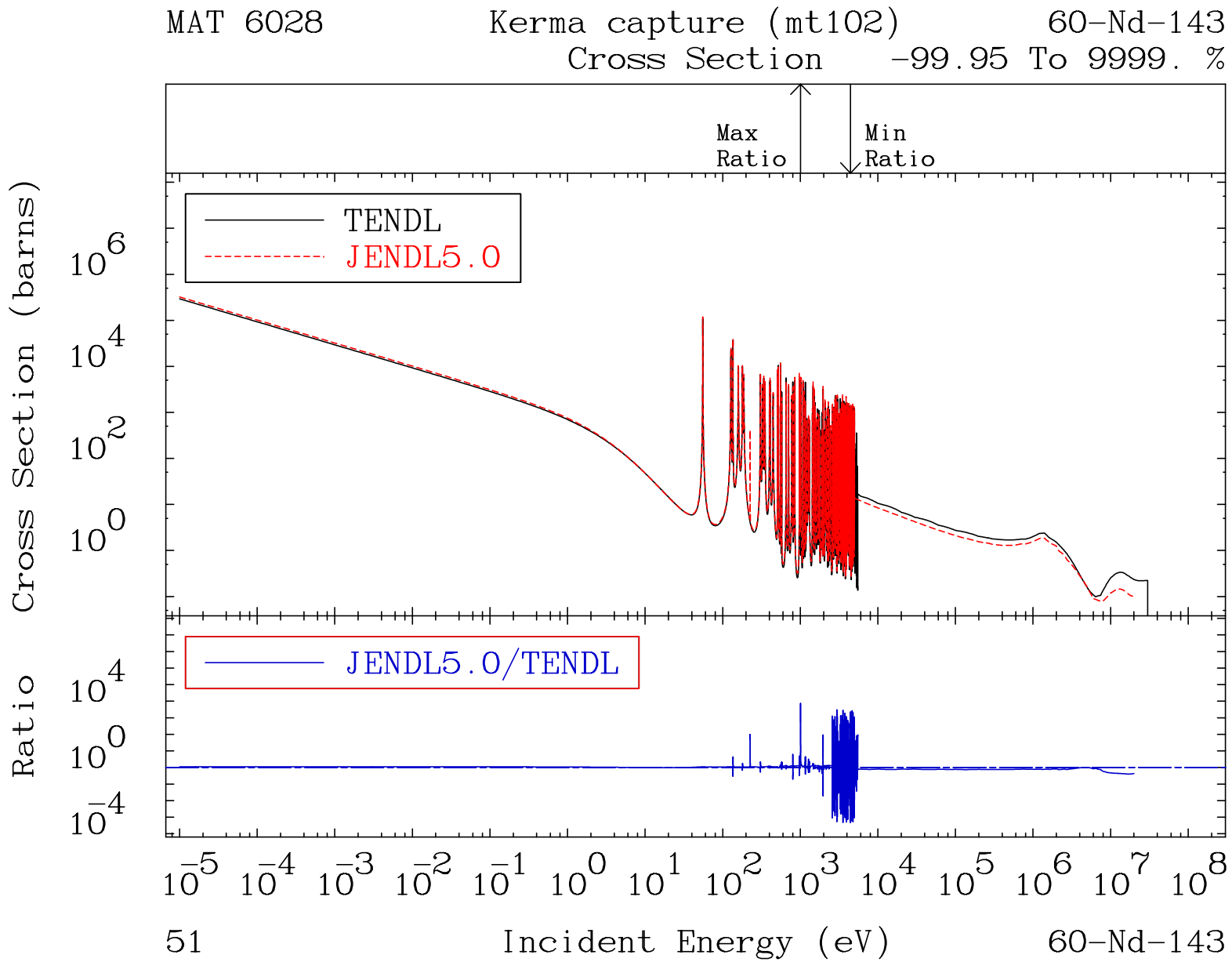

MAT 6028
Kerma total (eV-barns)
60-Nd-143
Cross Section -99.35 To 2636. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
46
60-Nd-143

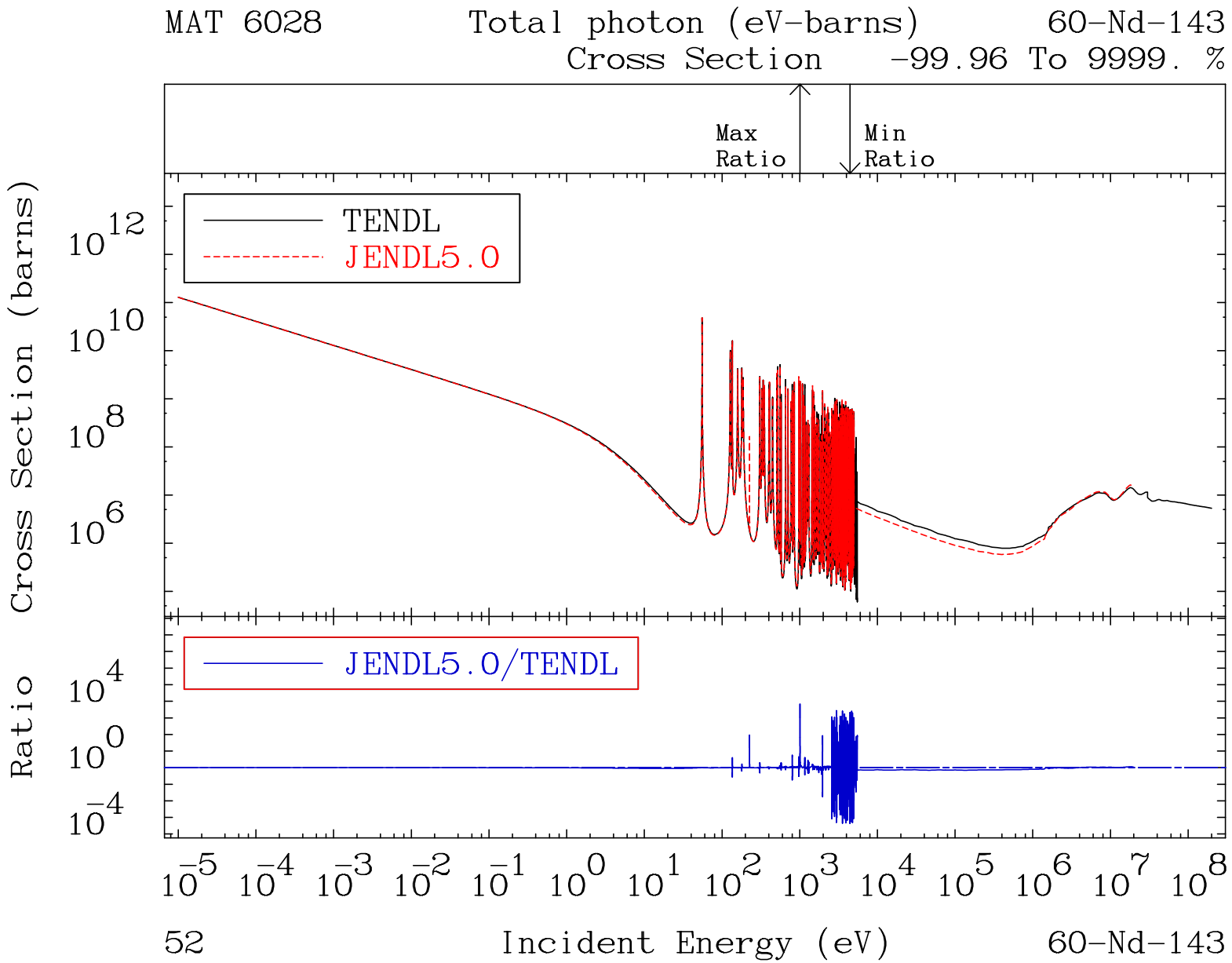

MAT 6028
Kerma elastic
Cross Section
60-Nd-143
-99.21 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
60-Nd-143

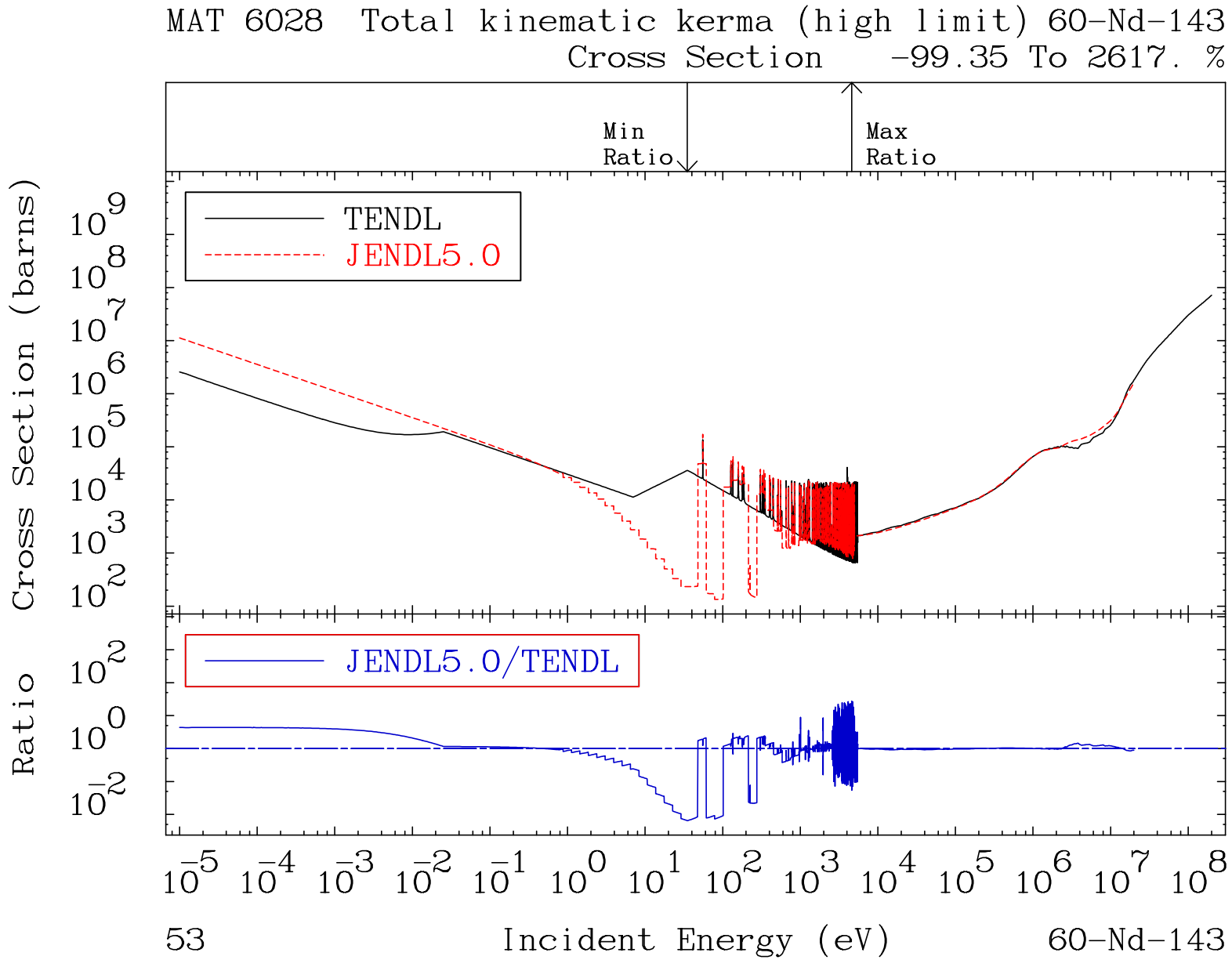

MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
Cross Section -99.35 To 401.3 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
60-Nd-143

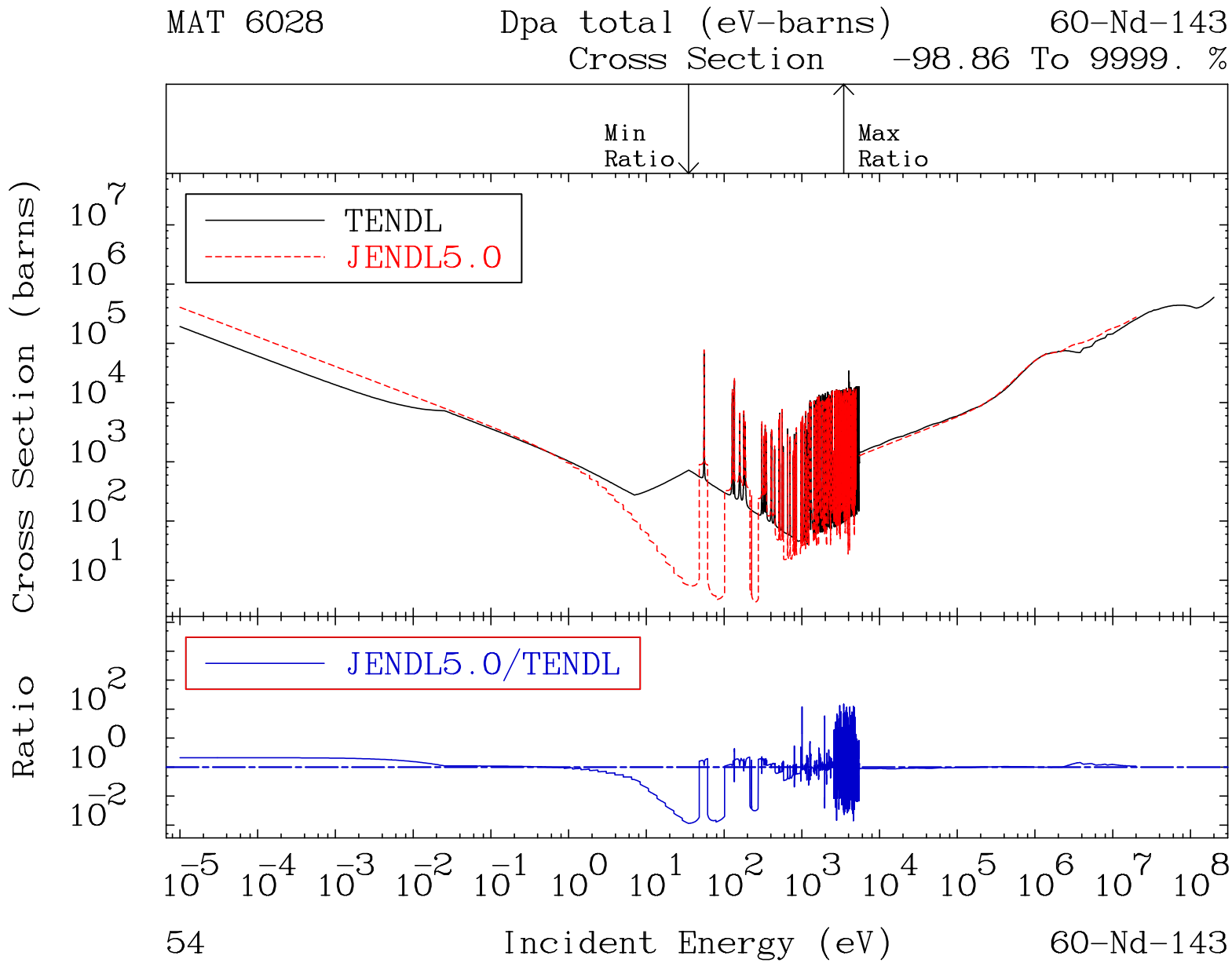

MAT 6028
Kerma inelastic (mt51-91)
60-Nd-143
Cross Section -75.49 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 747.29 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
60-Nd-143

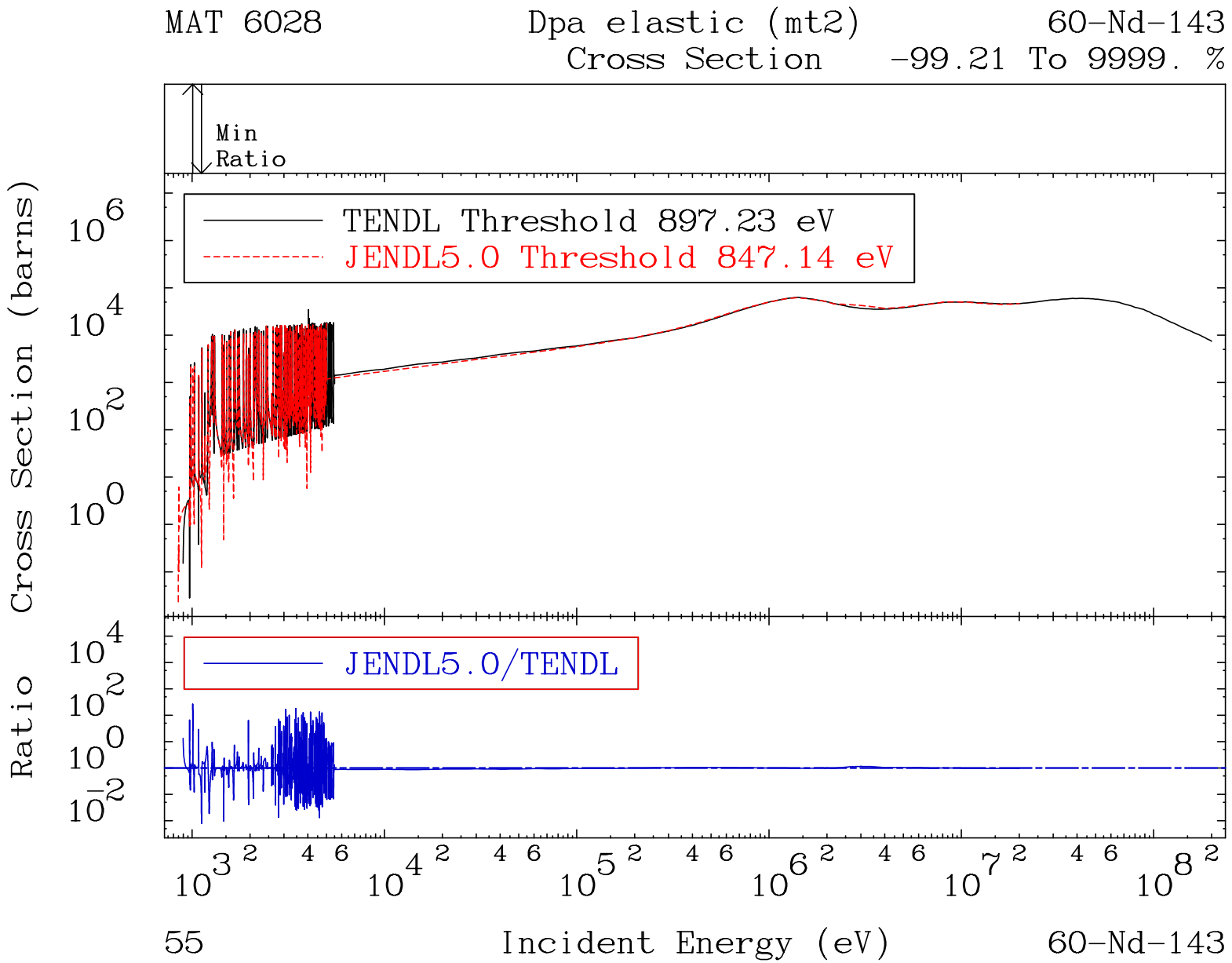

MAT 6028 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-143
Cross Section -75.49 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{12}
10^{6}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
50
Incident Energy (eV)
60-Nd-143

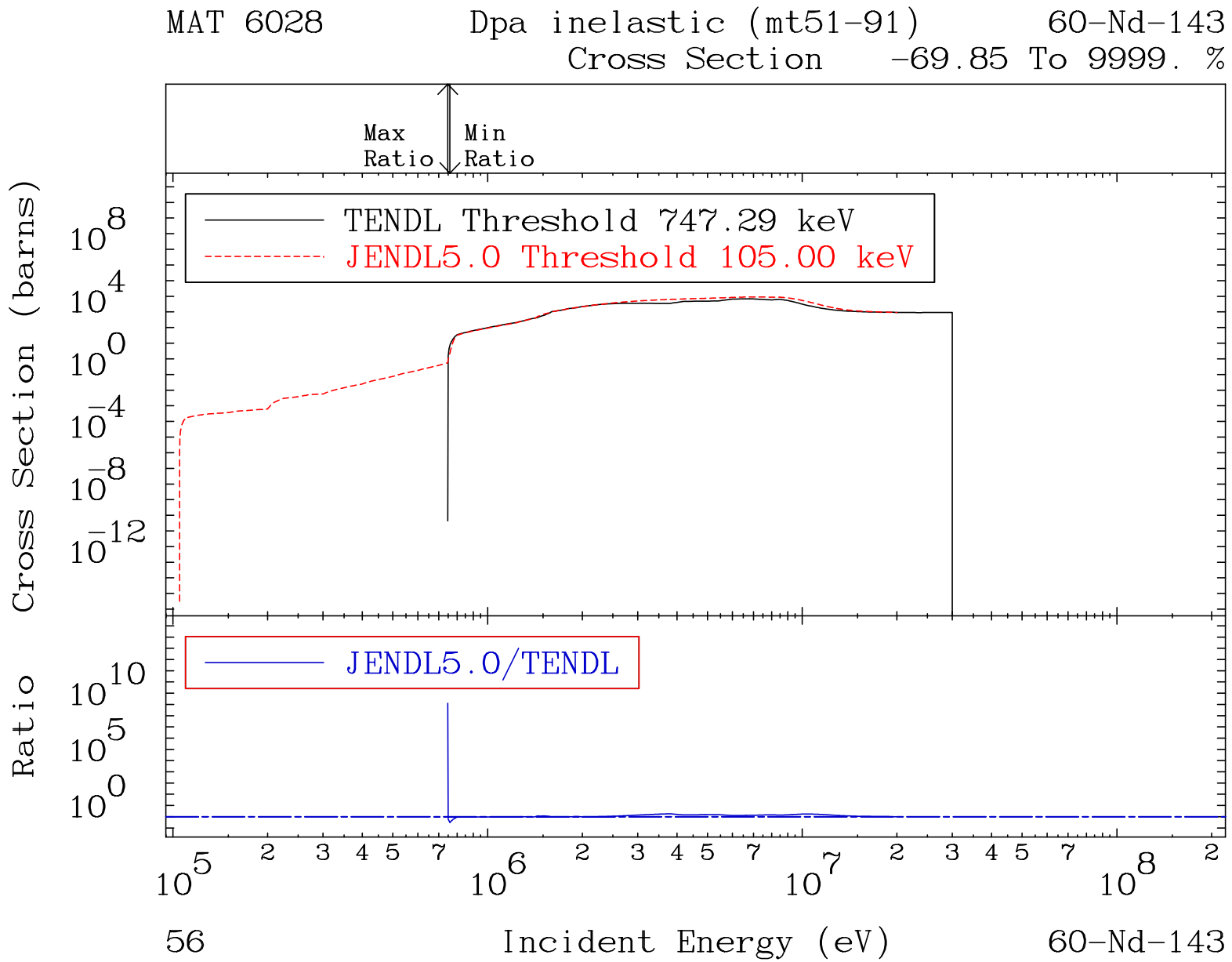

MAT 6028
Kerma capture (mt102)
60-Nd-143
Cross Section
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
60-Nd-143

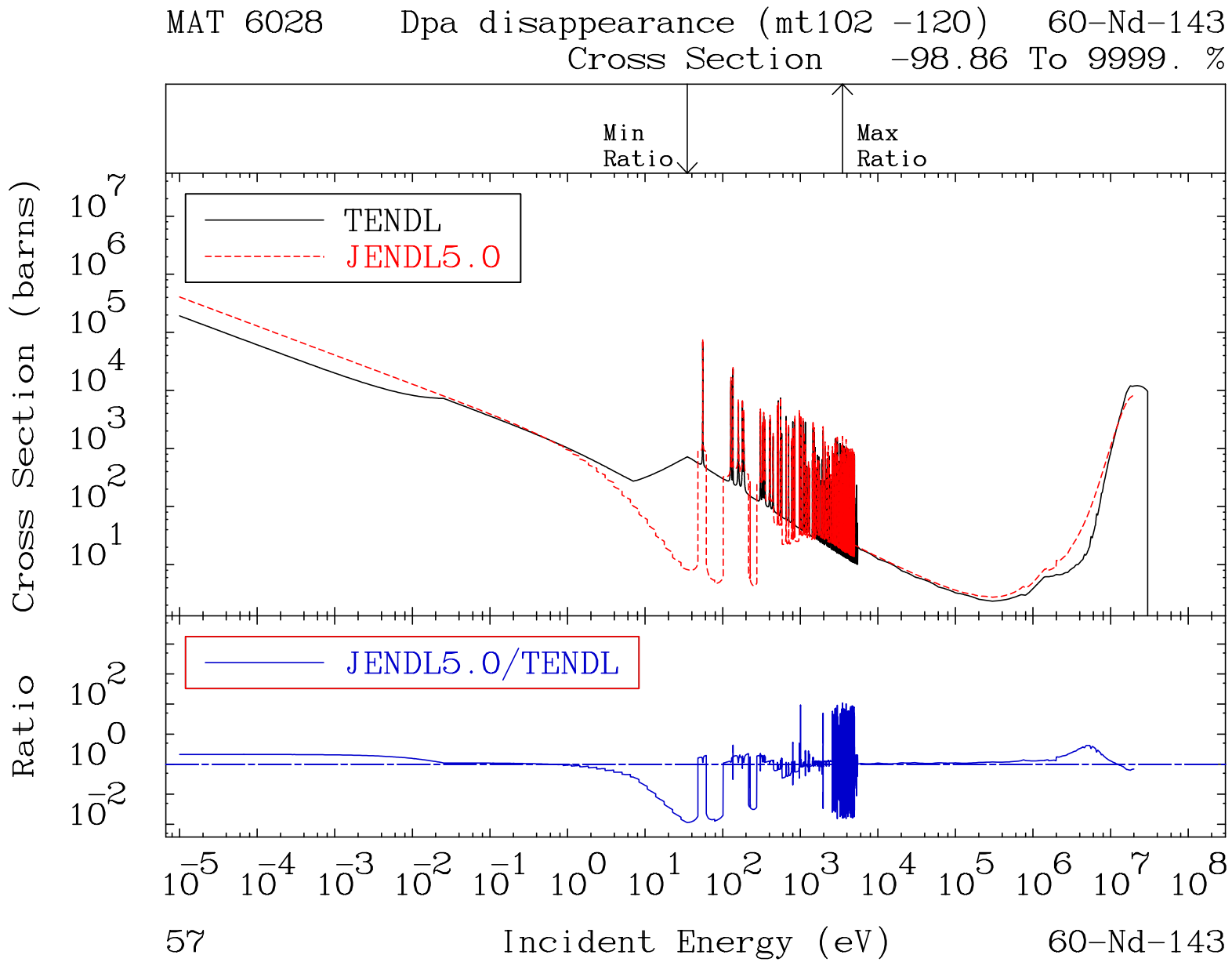

MAT 6028
Total photon (eV-barns)
60-Nd-143
Cross Section
-99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
60-Nd-143

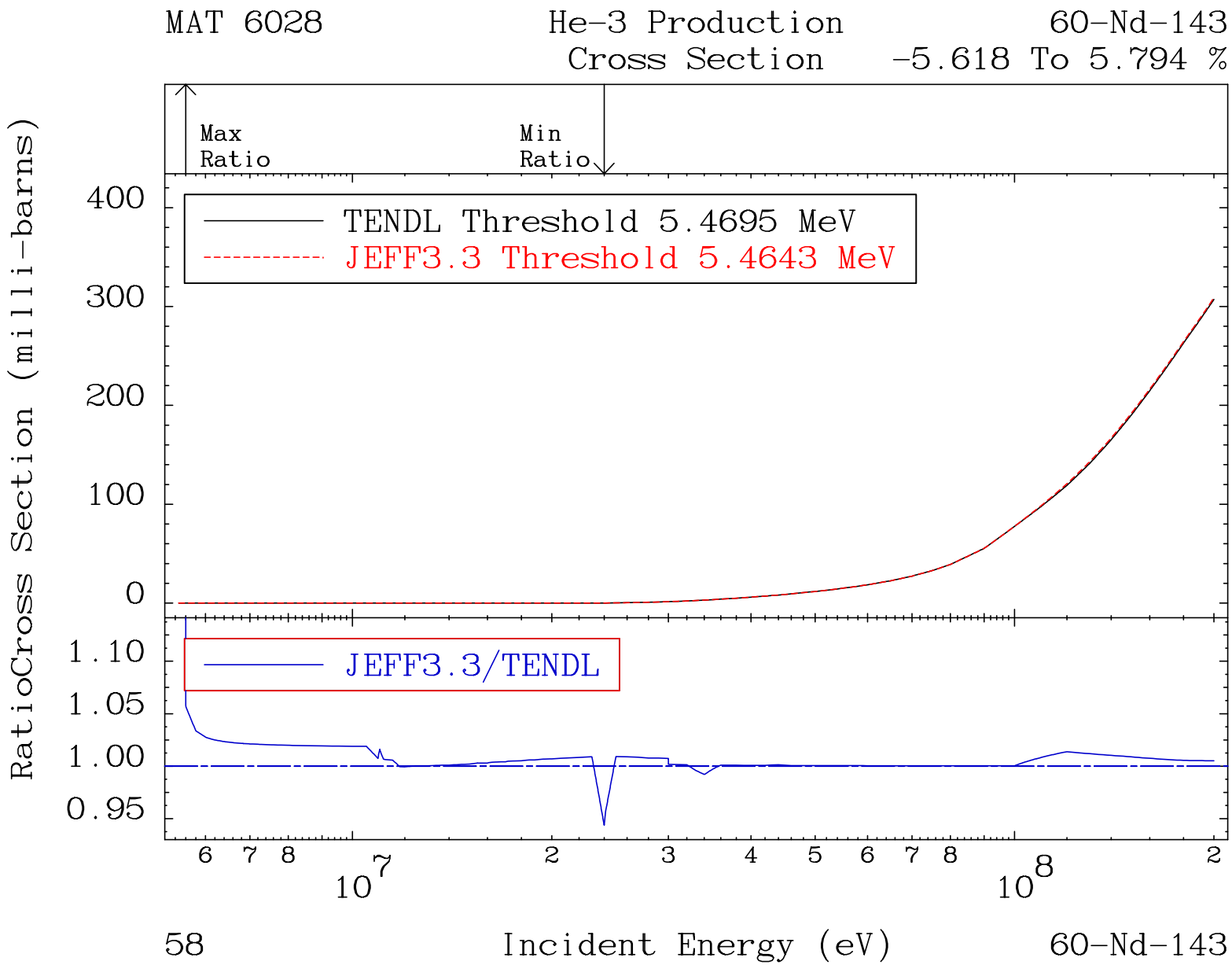

MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
Cross Section -99.35 To 2617. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
60-Nd-143

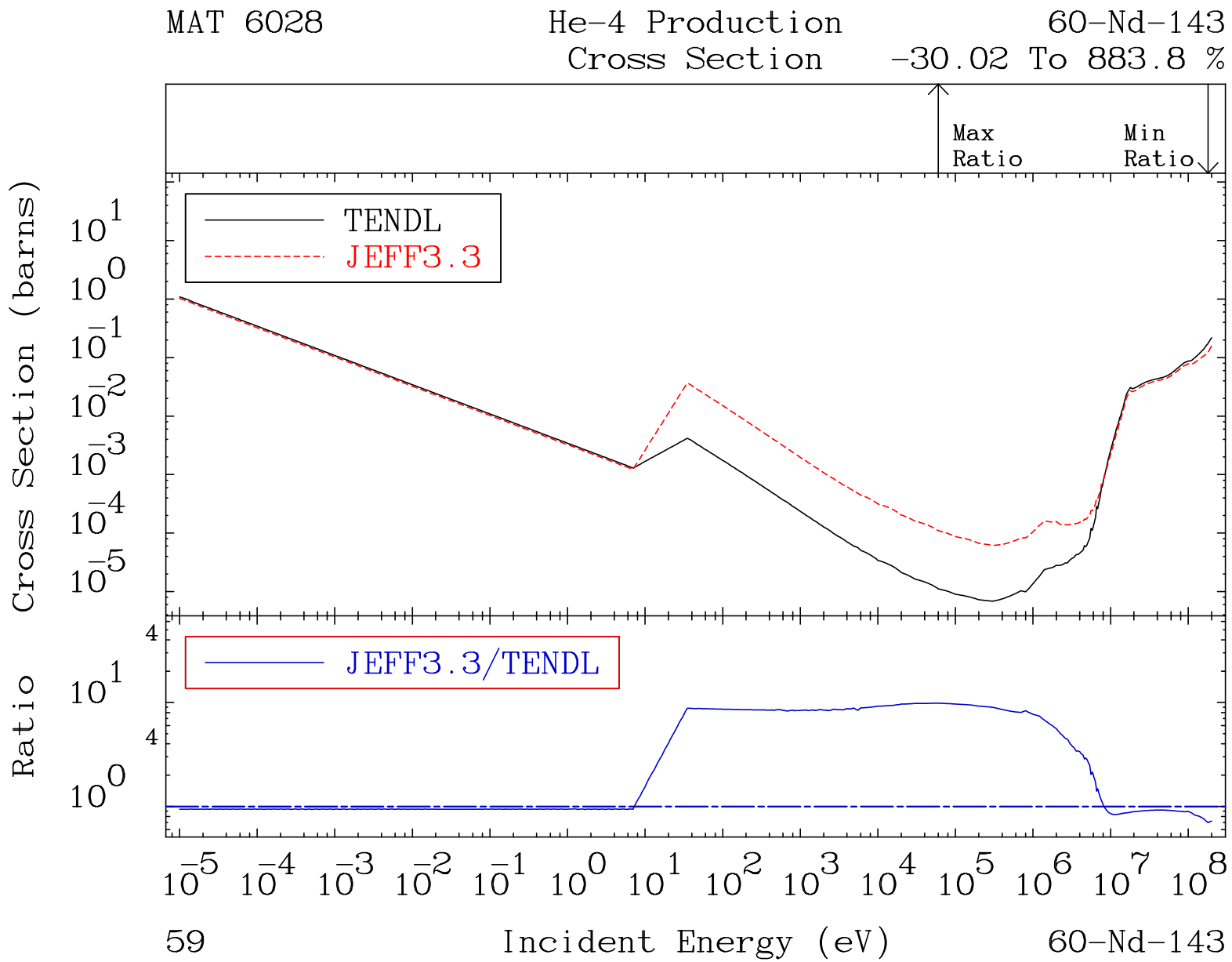

MAT 6028
Dpa total (eV-barns)
60-Nd-143
Cross Section
-98.86 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
60-Nd-143

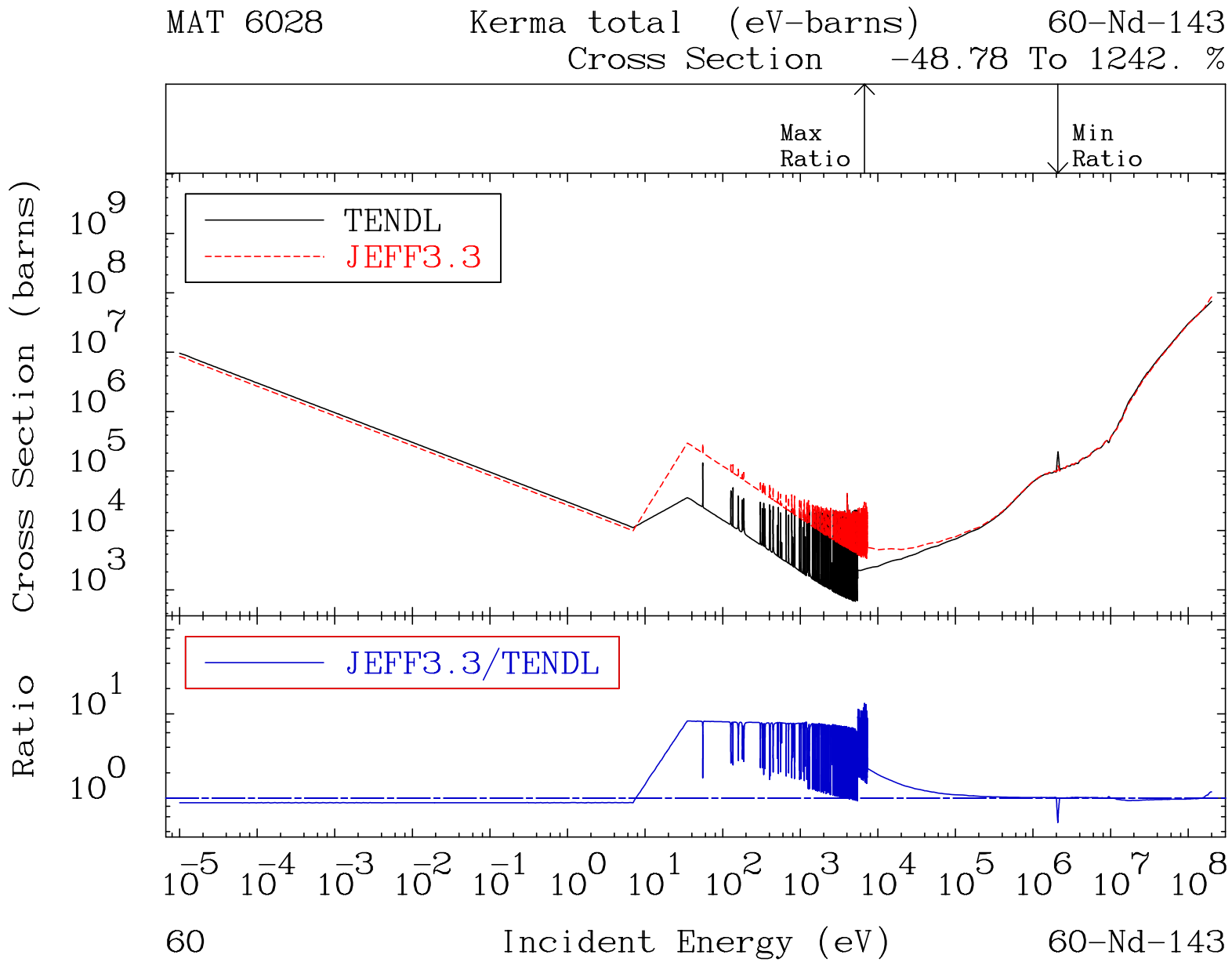

MAT 6028
Dpa elastic (mt2)
Cross Section
60-Nd-143
-99.21 To 9999. %
Min
Ratio
TENDL Threshold 897.23 eV
JENDL5.0 Threshold 847.14 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
60-Nd-143

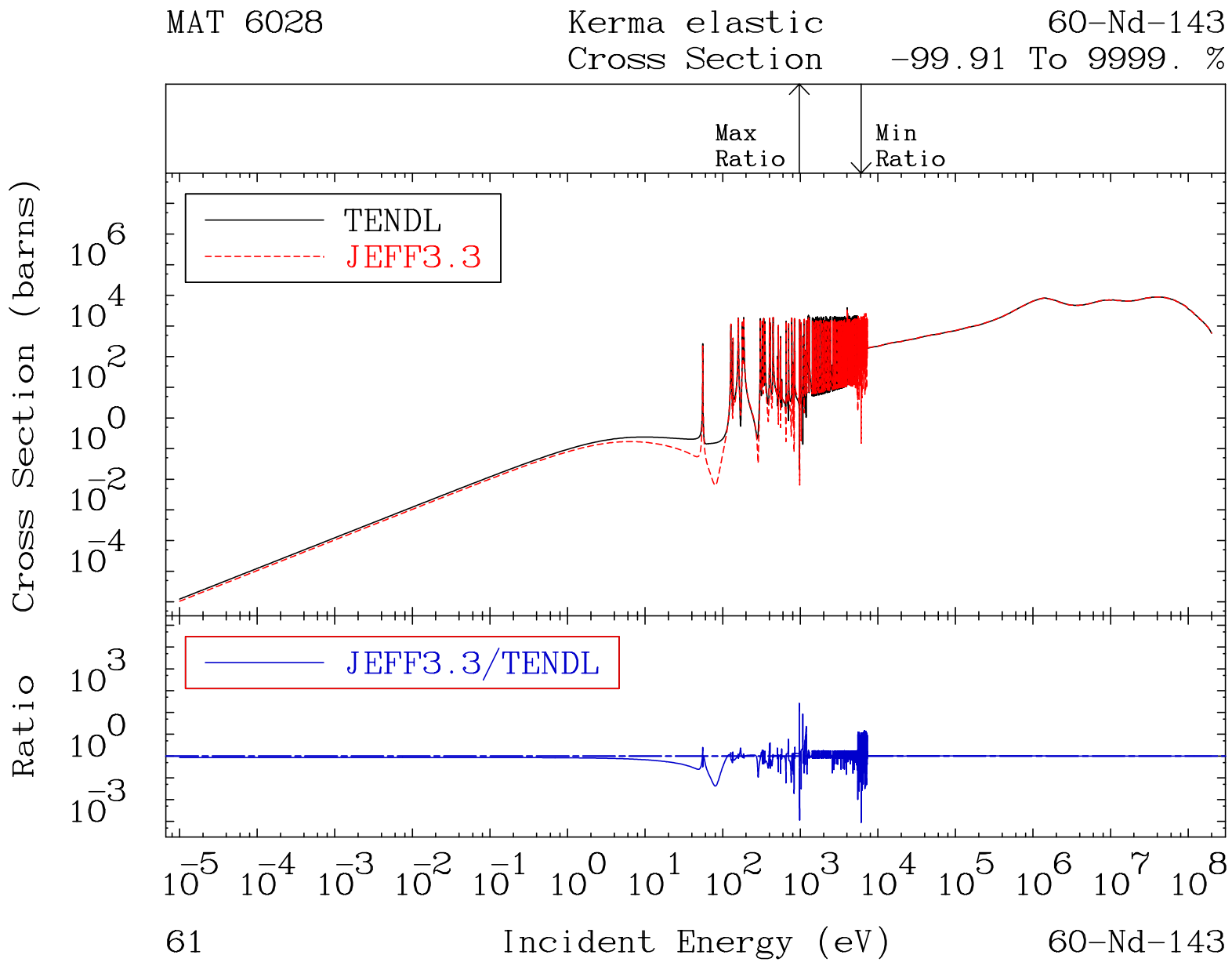

MAT 6028
Dpa inelastic (mt51-91)
60-Nd-143
Cross Section
-69.85 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 747.29 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
60-Nd-143

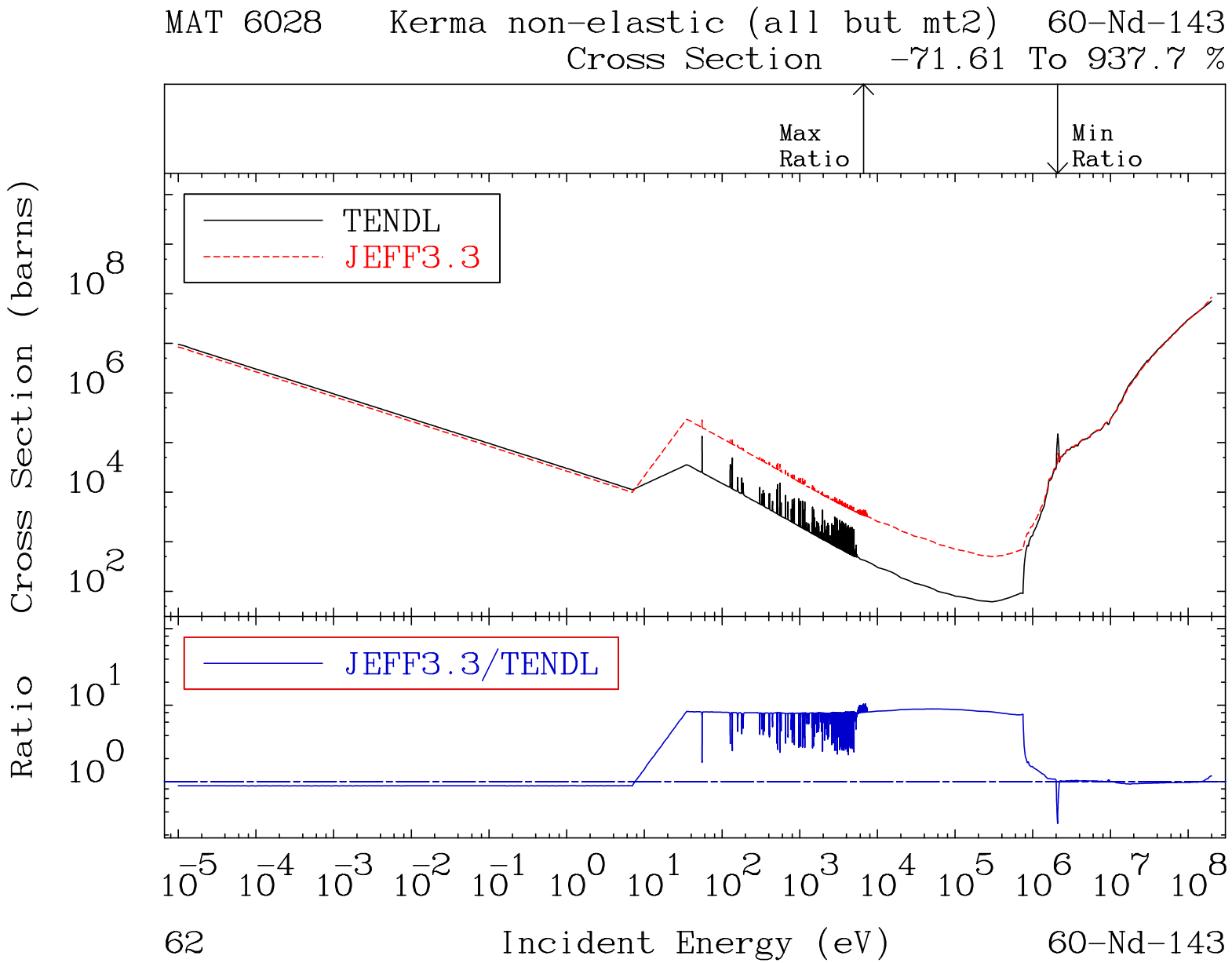

MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
Cross Section -98.86 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
60-Nd-143

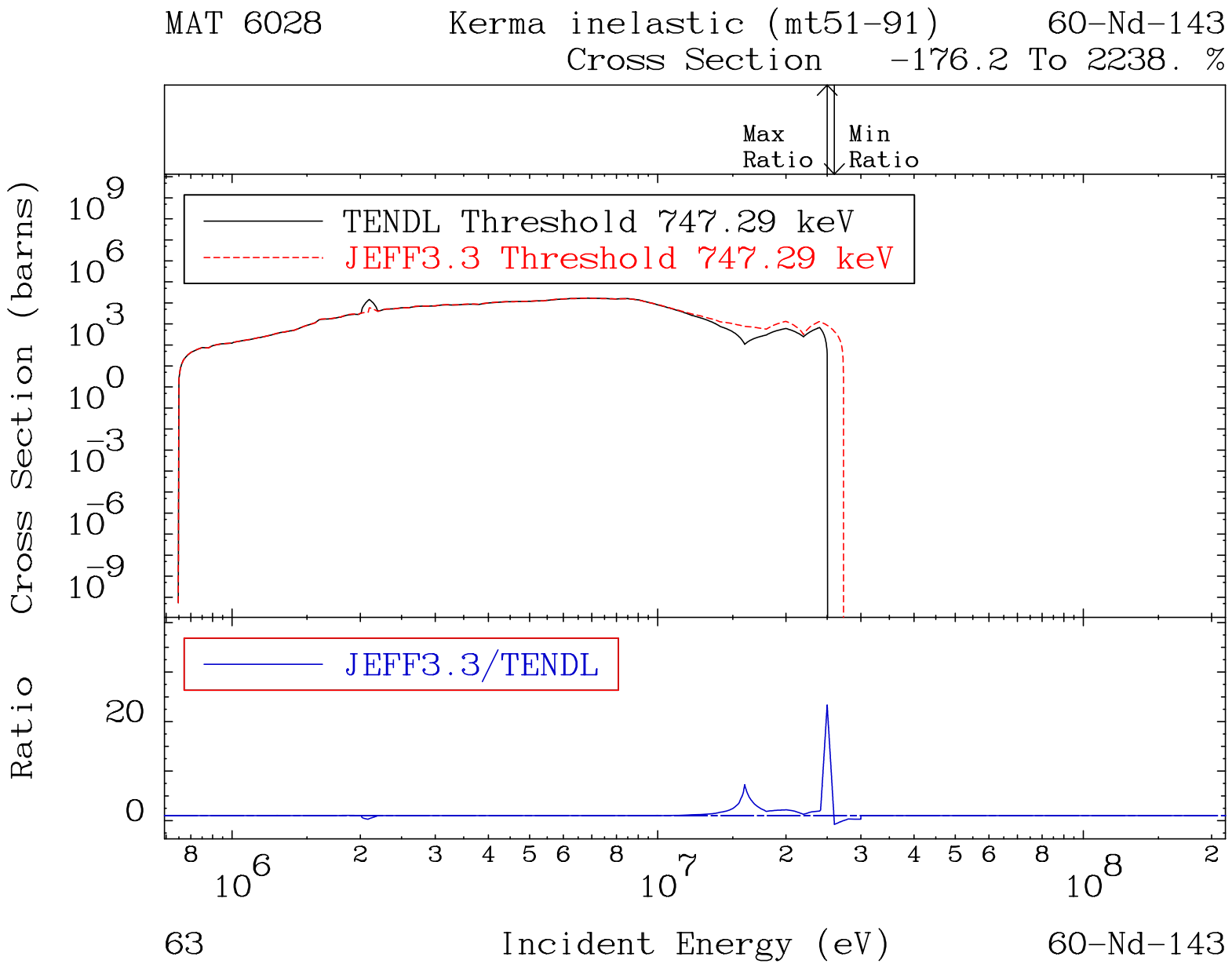

MAT 6028
He-3 Production
Cross Section
60-Nd-143
-5.618 To 5.794 %
Max
Ratio
Min
Ratio
TENDL Threshold 5.4695 MeV
JEFF3.3 Threshold 5.4643 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.10
1.05
1.00
0.95
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
58
Incident Energy (eV)
60-Nd-143

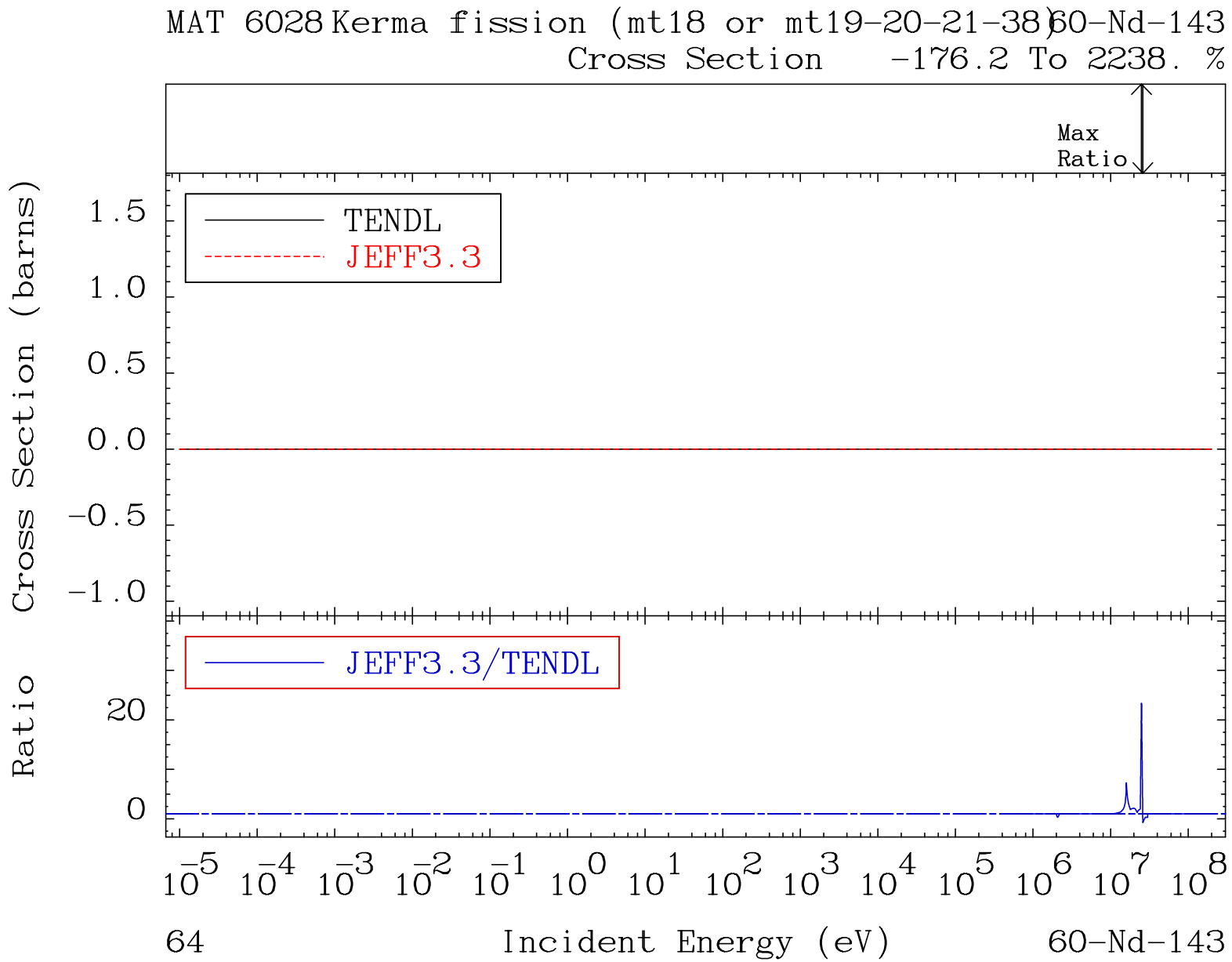

MAT 6028
He-4 Production
Cross Section
60-Nd-143
-30.02 To 883.8 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
60-Nd-143

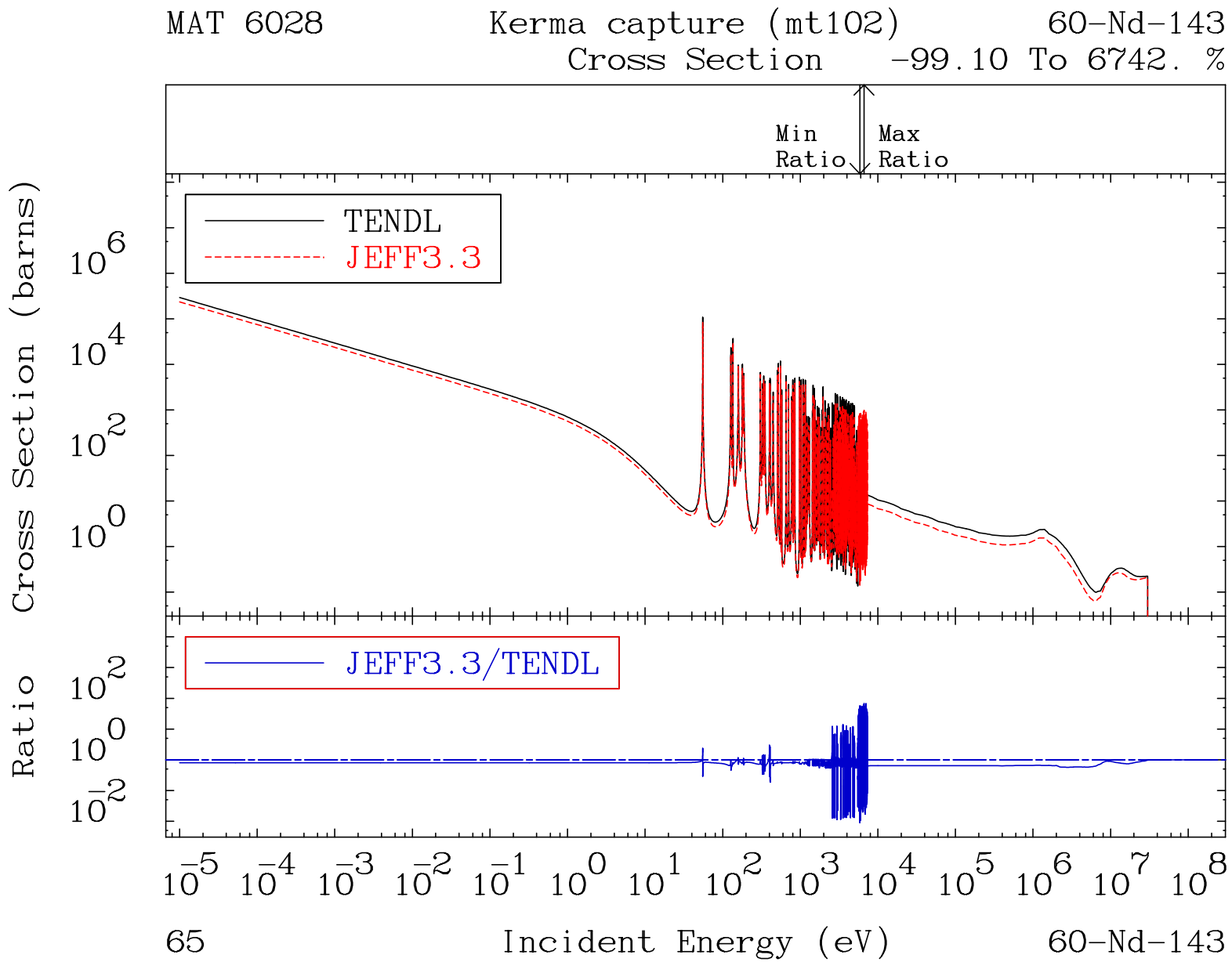

MAT 6028
Kerma total (eV-barns)
60-Nd-143
Cross Section -48.78 To 1242. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
60-Nd-143

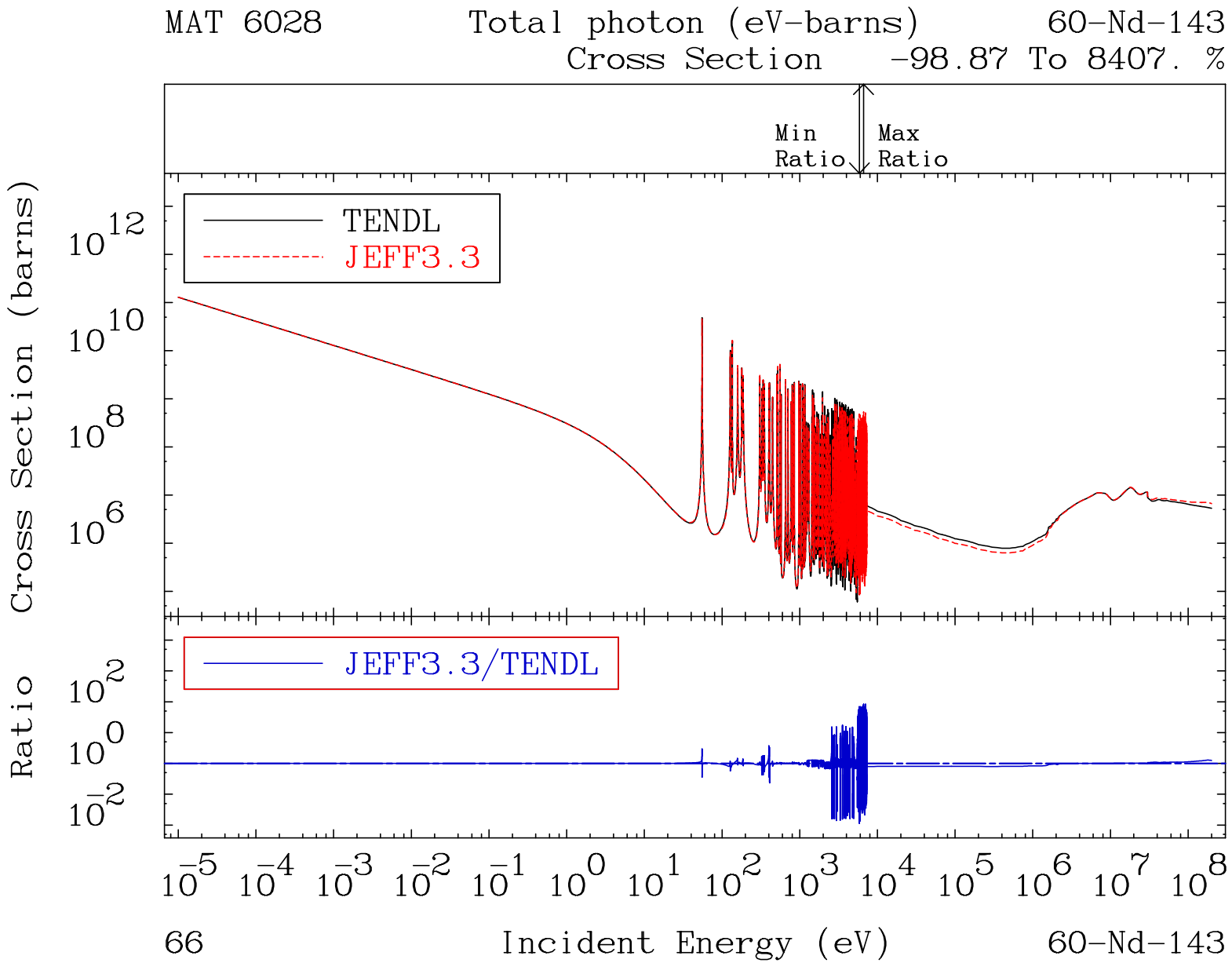

MAT 6028
Kerma elastic
Cross Section
60-Nd-143
-99.91 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
60-Nd-143

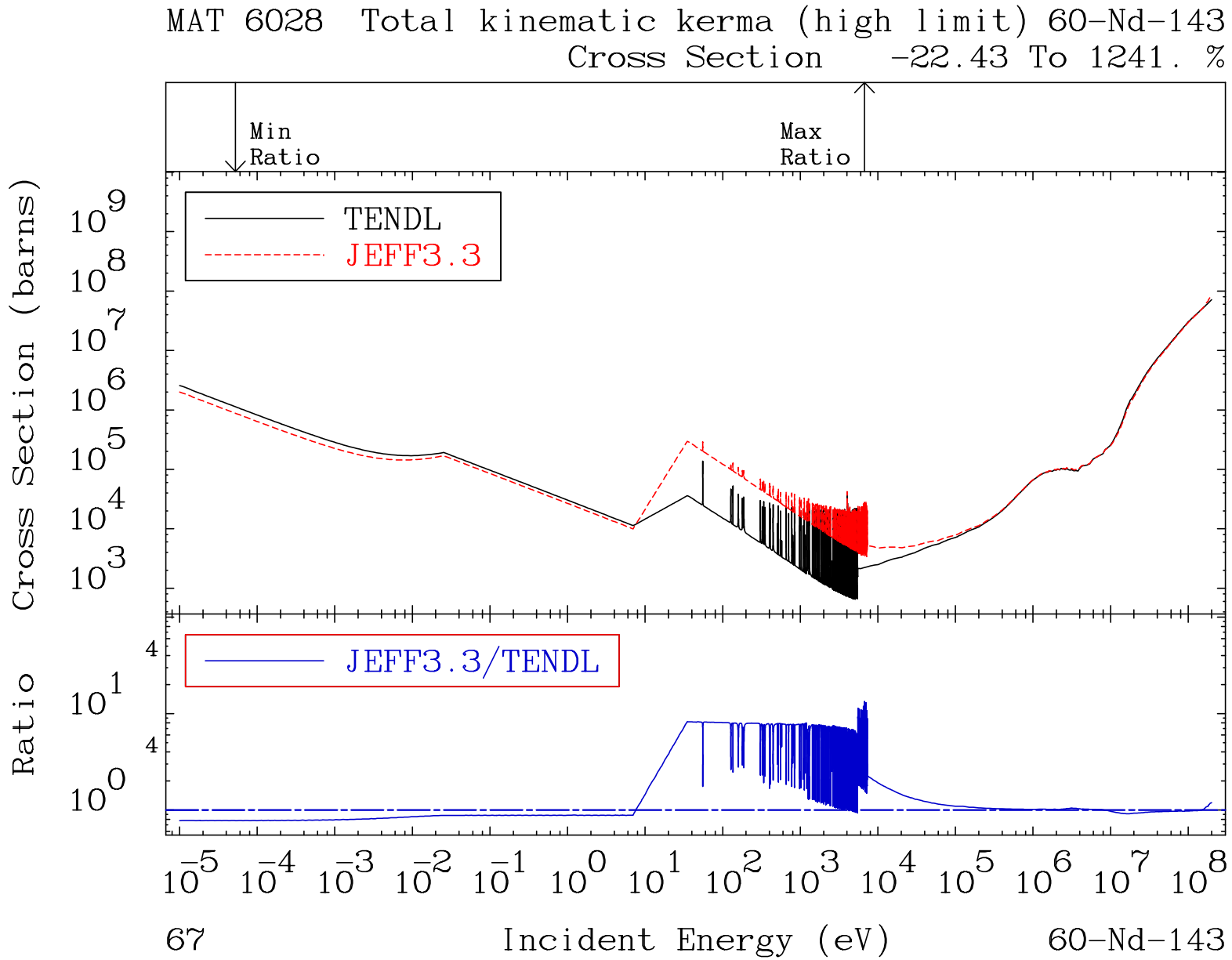

MAT 6028 Kerma non-elastic (all but mt2) 60-Nd-143
Cross Section -71.61 To 937.7 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
60-Nd-143

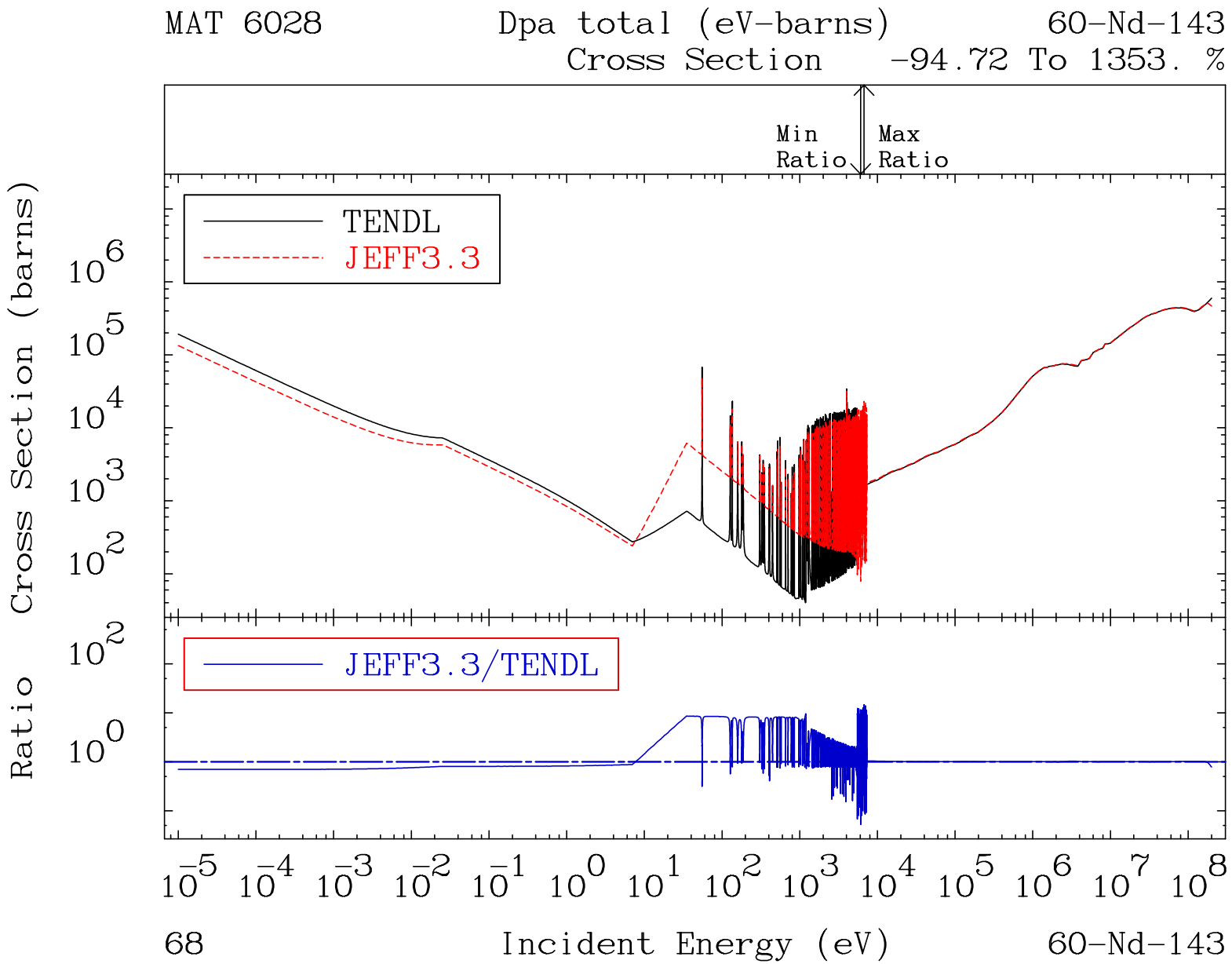

MAT 6028
Kerma inelastic (mt51-91)
60-Nd-143
Cross Section -176.2 To 2238. %
Max Ratio
Min Ratio
TENDL Threshold 747.29 keV
JEFF3.3 Threshold 747.29 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
60-Nd-143

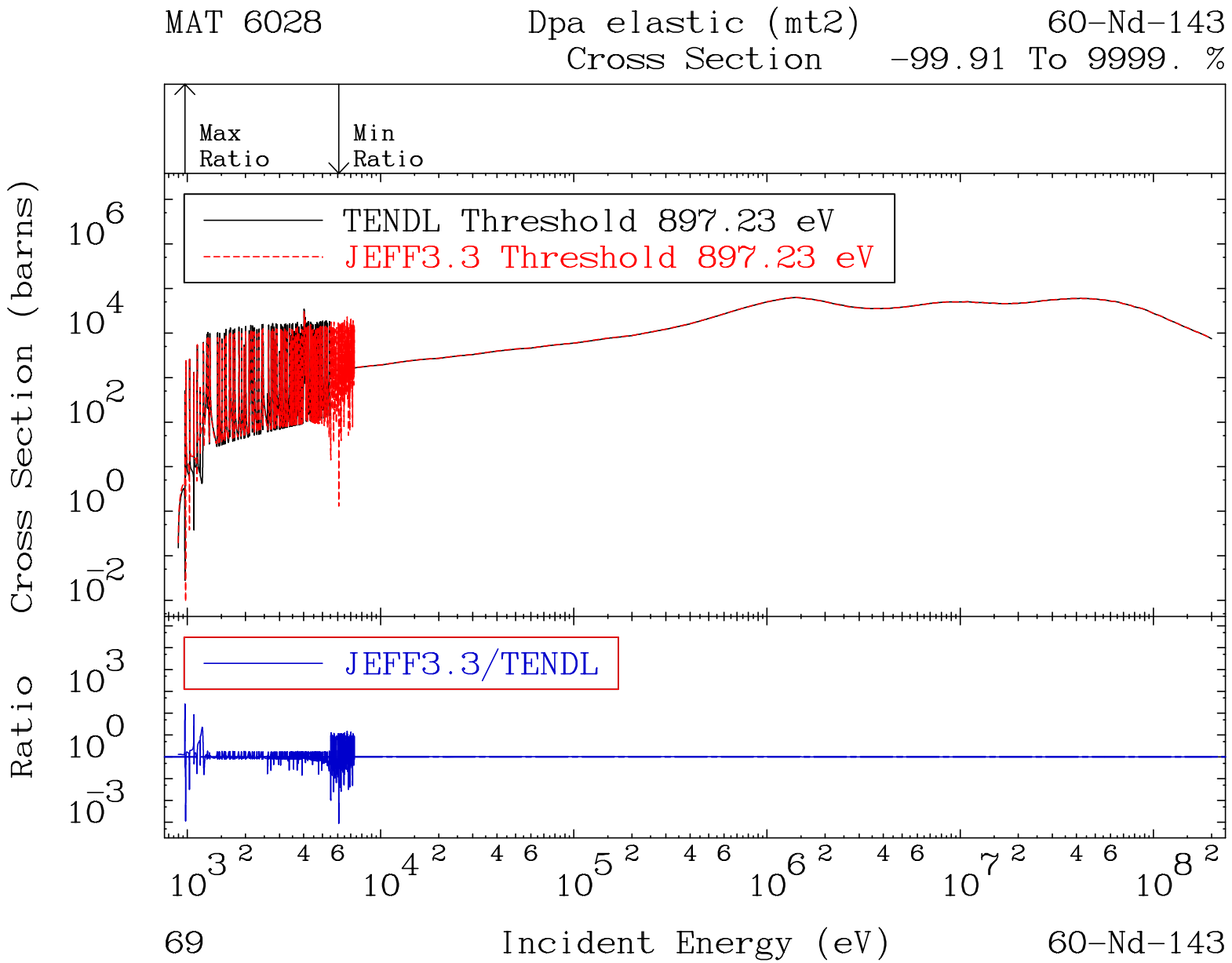

MAT 6028 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-143
Cross Section -176.2 To 2238. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
20
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
64
Incident Energy (eV)
60-Nd-143

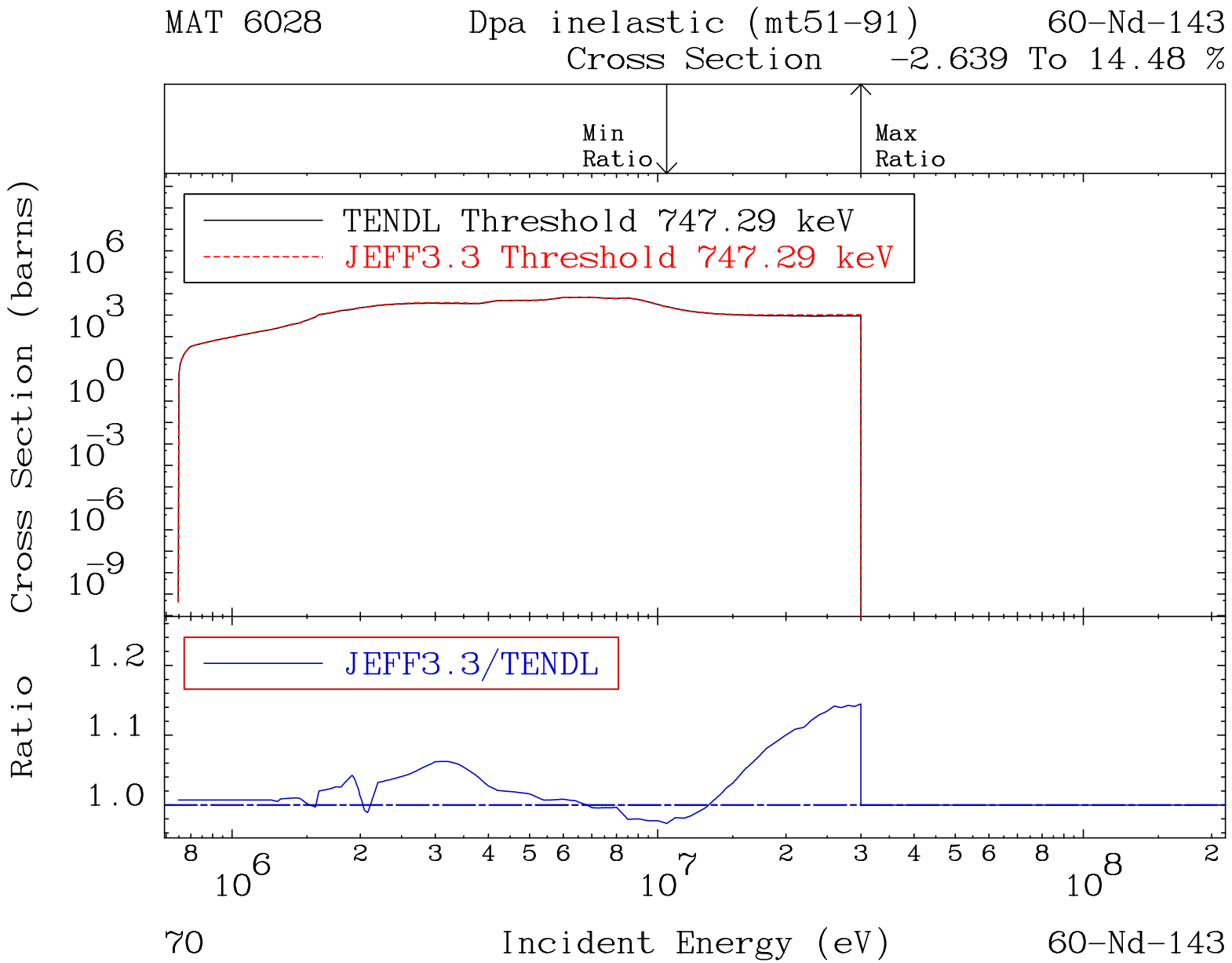

MAT 6028
Kerma capture (mt102)
60-Nd-143
Cross Section
-99.10 To 6742. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
60-Nd-143

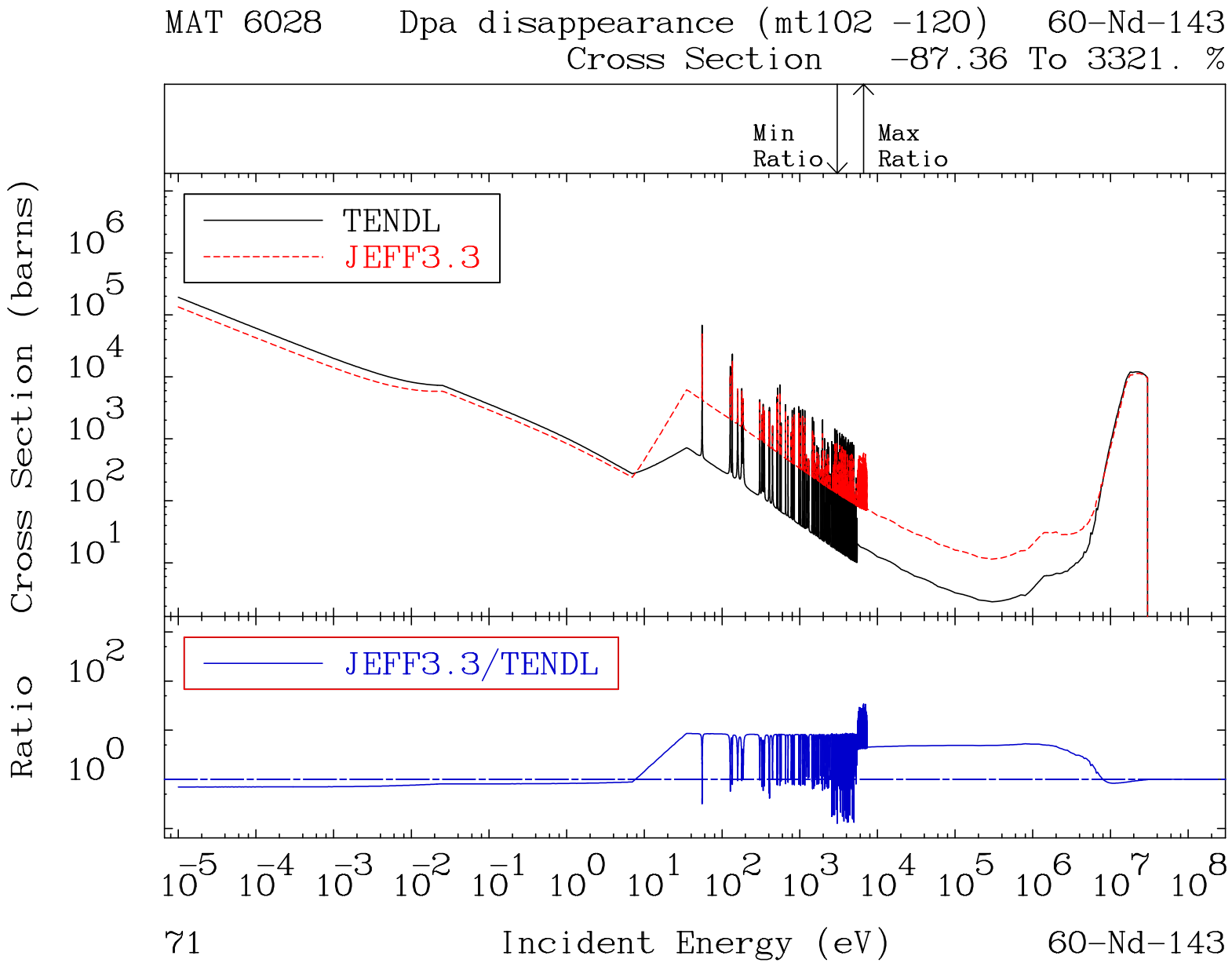

MAT 6028
Total photon (eV-barns)
60-Nd-143
Cross Section
-98.87 To 8407. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
60-Nd-143

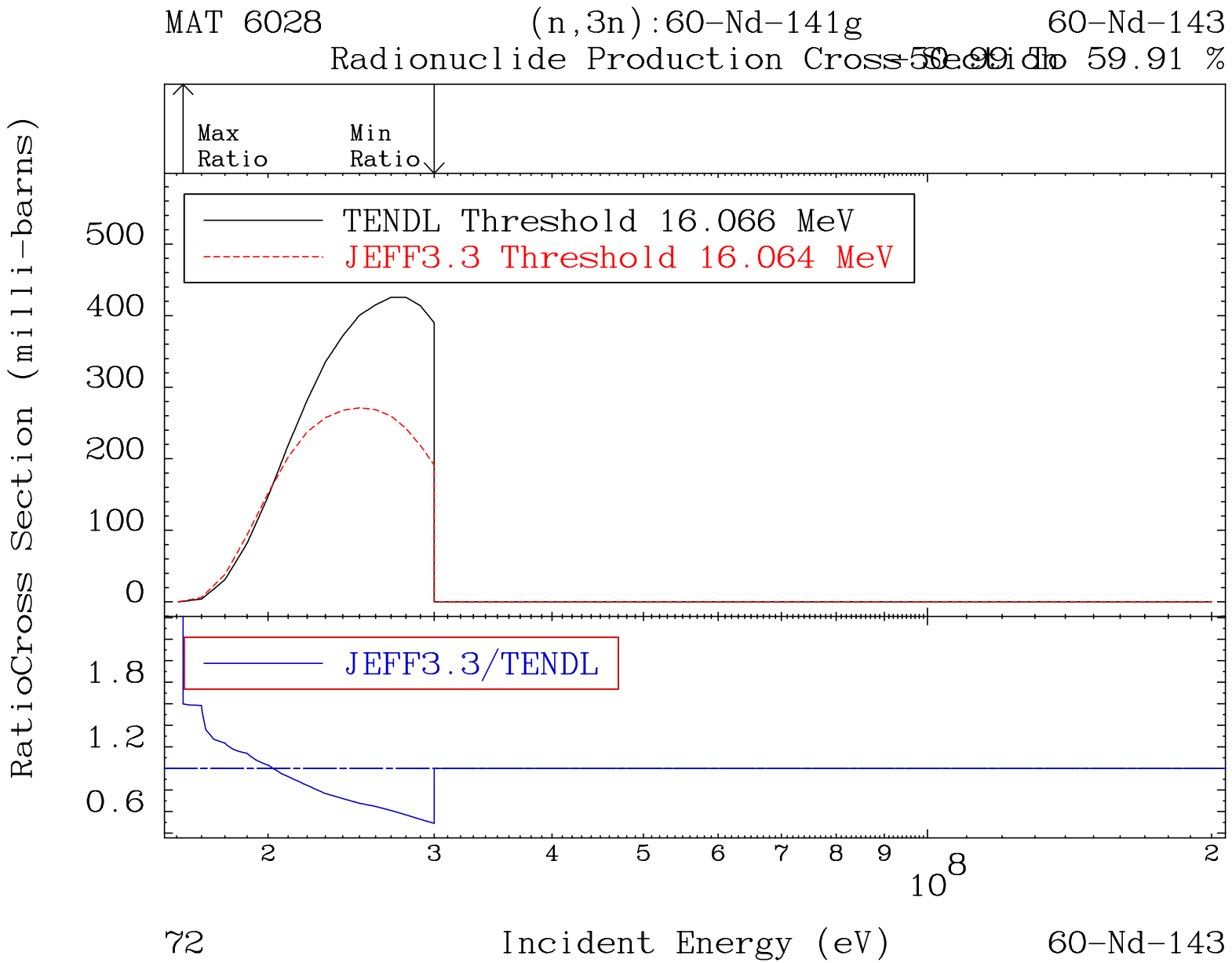

MAT 6028 Total kinematic kerma (high limit) 60-Nd-143
Cross Section -22.43 To 1241. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
60-Nd-143

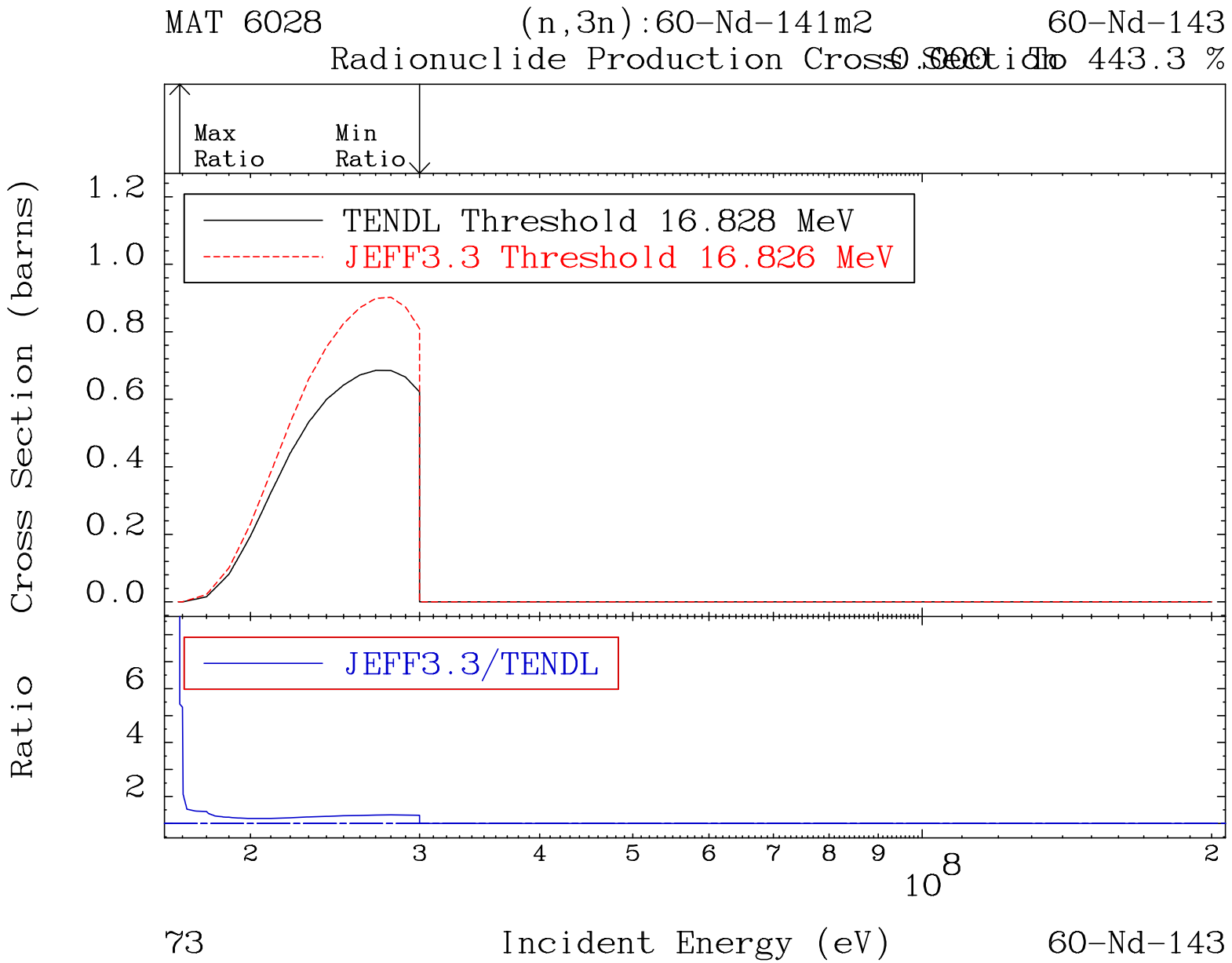

MAT 6028
Dpa total (eV-barns)
60-Nd-143
Cross Section
-94.72 To 1353. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
60-Nd-143

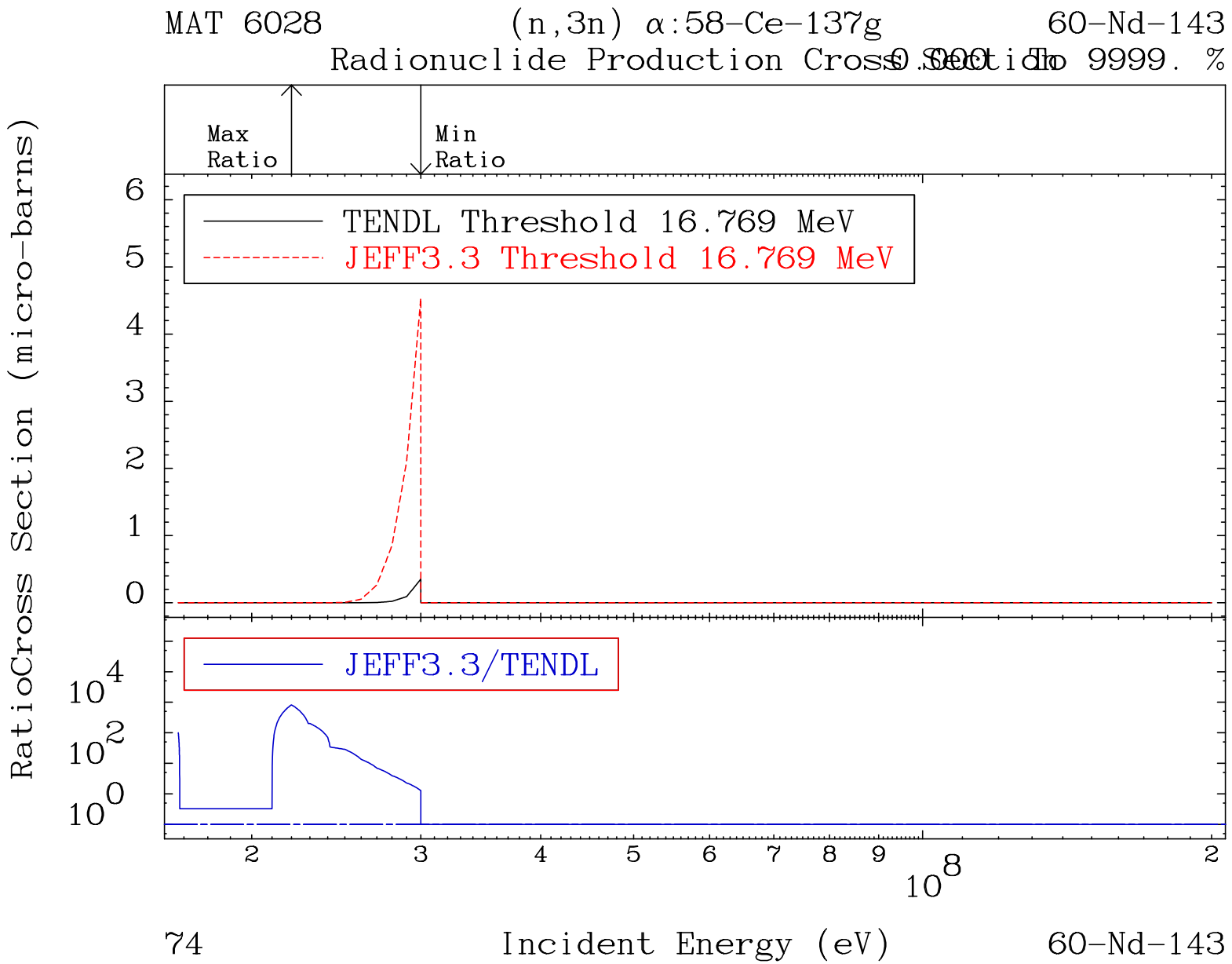

MAT 6028
Dpa elastic (mt2)
Cross Section
60-Nd-143
-99.91 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 897.23 eV
JEFF3.3 Threshold 897.23 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
60-Nd-143

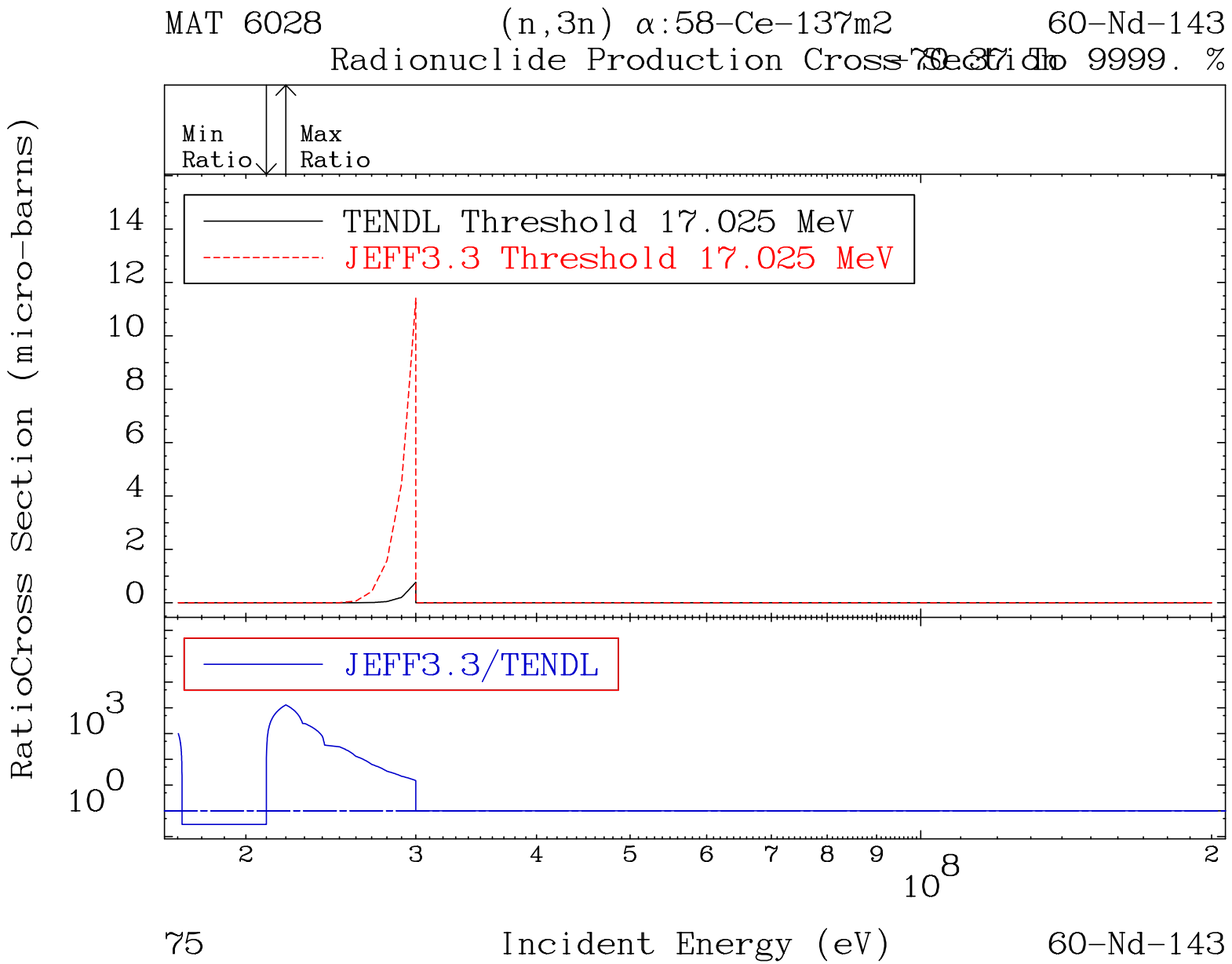

MAT 6028
Dpa inelastic (mt51-91)
60-Nd-143
Cross Section
-2.639 To 14.48 %
Min Ratio
Max Ratio
TENDL Threshold 747.29 keV
JEFF3.3 Threshold 747.29 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
60-Nd-143

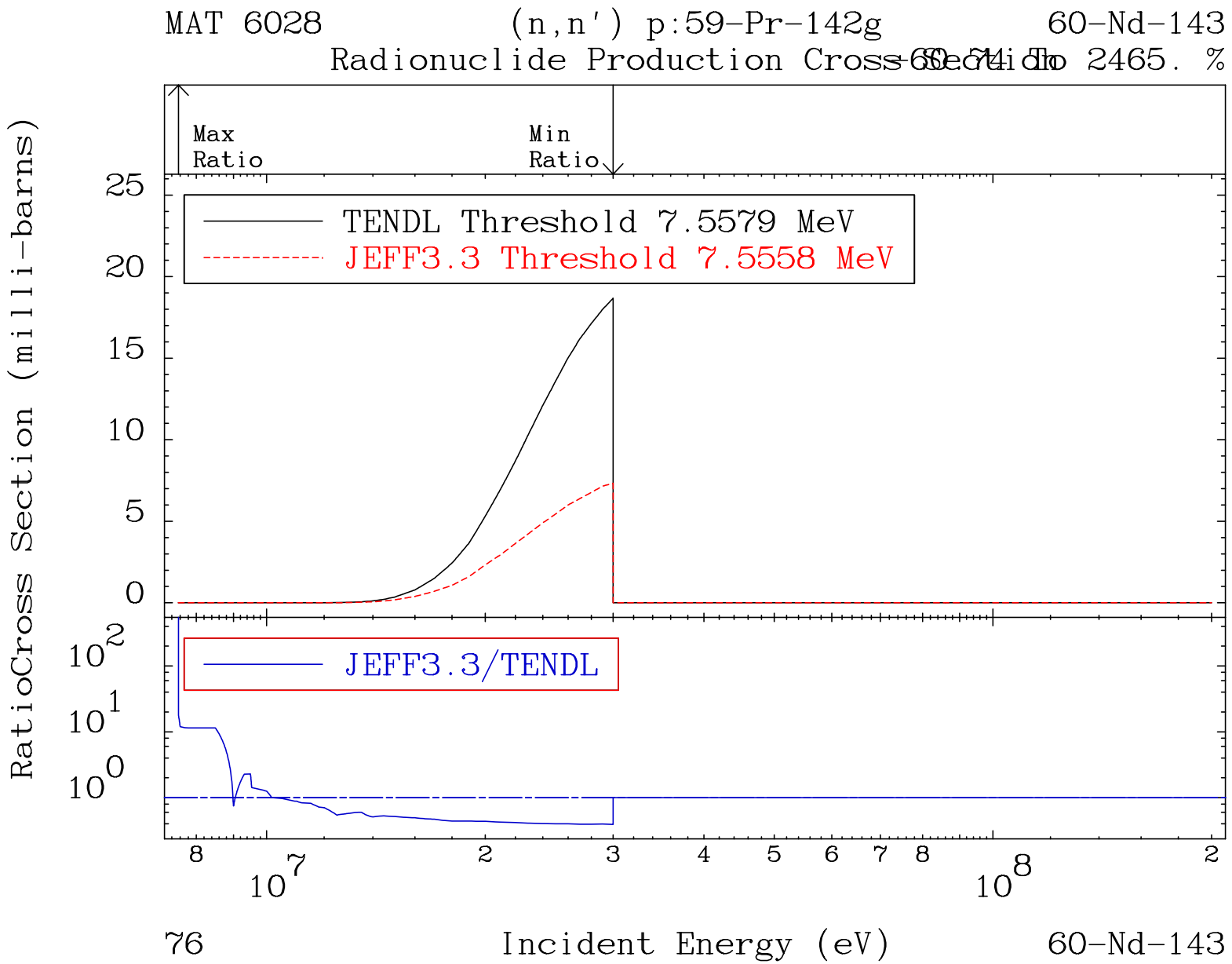

MAT 6028 Dpa disappearance (mt102 -120) 60-Nd-143
Cross Section -87.36 To 3321. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
60-Nd-143

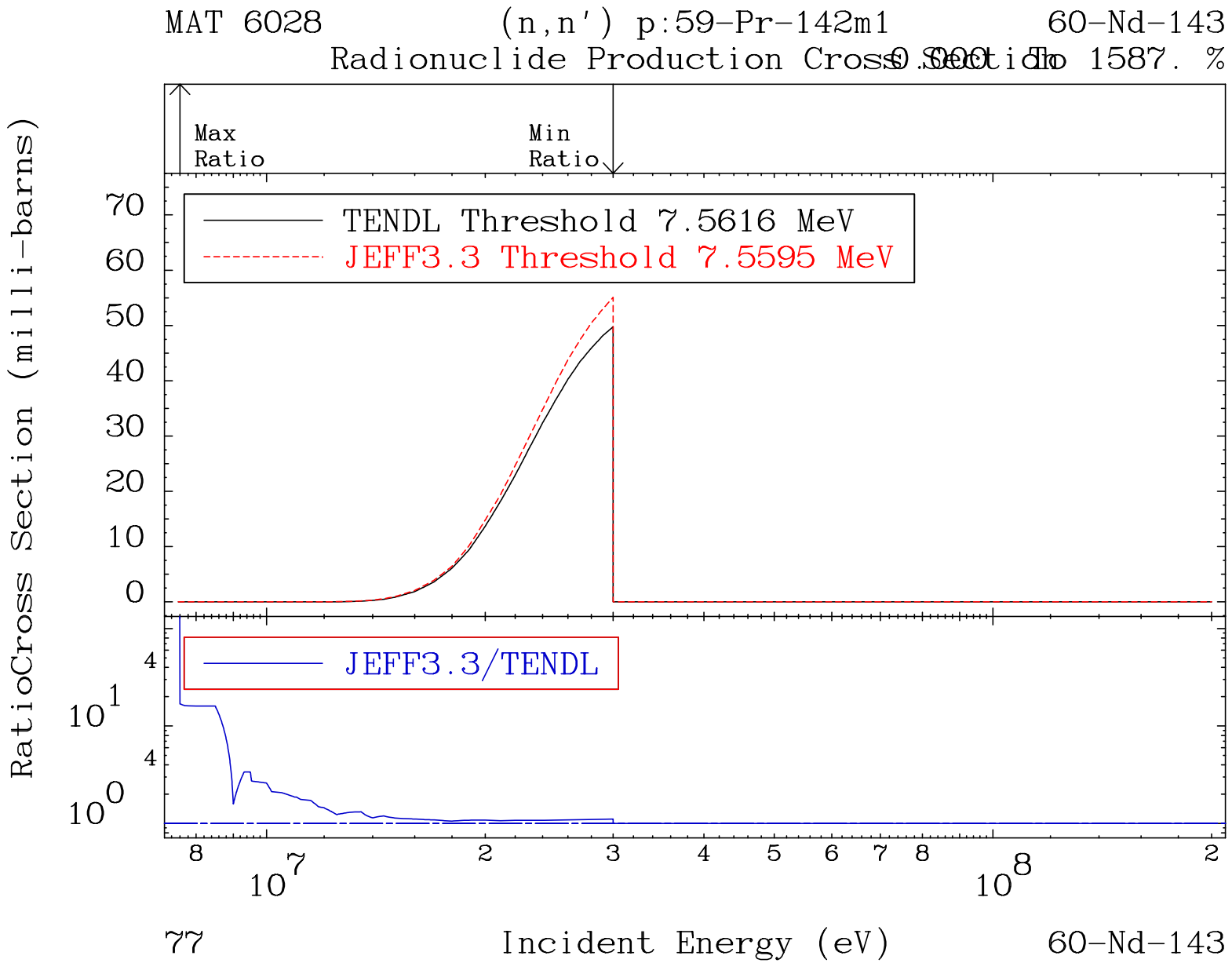

MAT 6028
(n,3n):60-Nd-141g
60-Nd-143
Radionuclide Production Cross Section To 59.91 %
Max Ratio
Min Ratio
TENDL Threshold 16.066 MeV
JEFF3.3 Threshold 16.064 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.8
1.2
0.6
2
3
4
5
6
7
8
9
2
10^8
72
Incident Energy (eV)
60-Nd-143

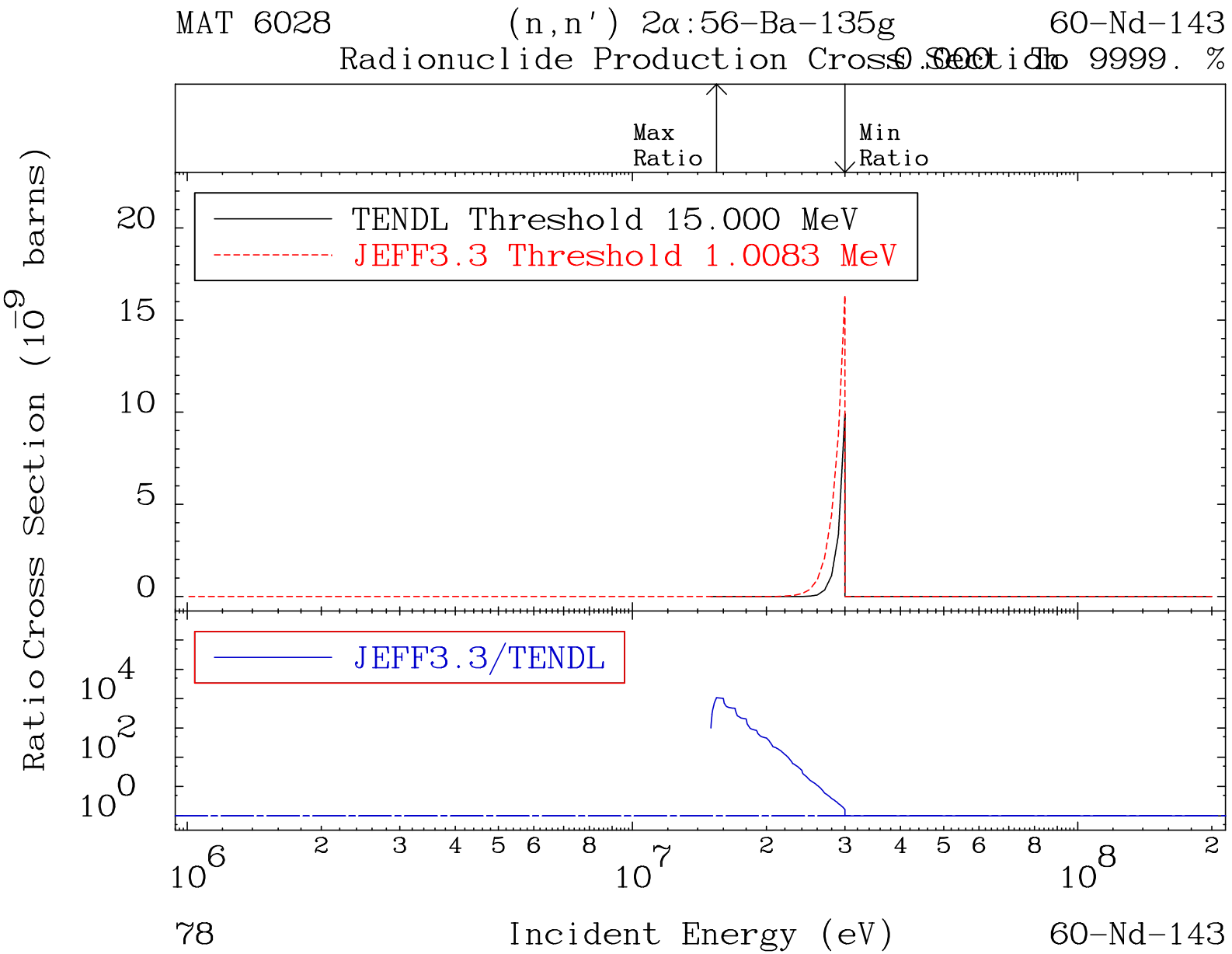

MAT 6028
(n,3n):60-Nd-141m2
60-Nd-143
Radionuclide Production Cross Section
0.000 To 443.3 %
Max Ratio
Min Ratio
TENDL Threshold 16.828 MeV
JEFF3.3 Threshold 16.826 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
6
4
2
2
3
4
5
6
7
8
9
10^8
2
73
Incident Energy (eV)
60-Nd-143

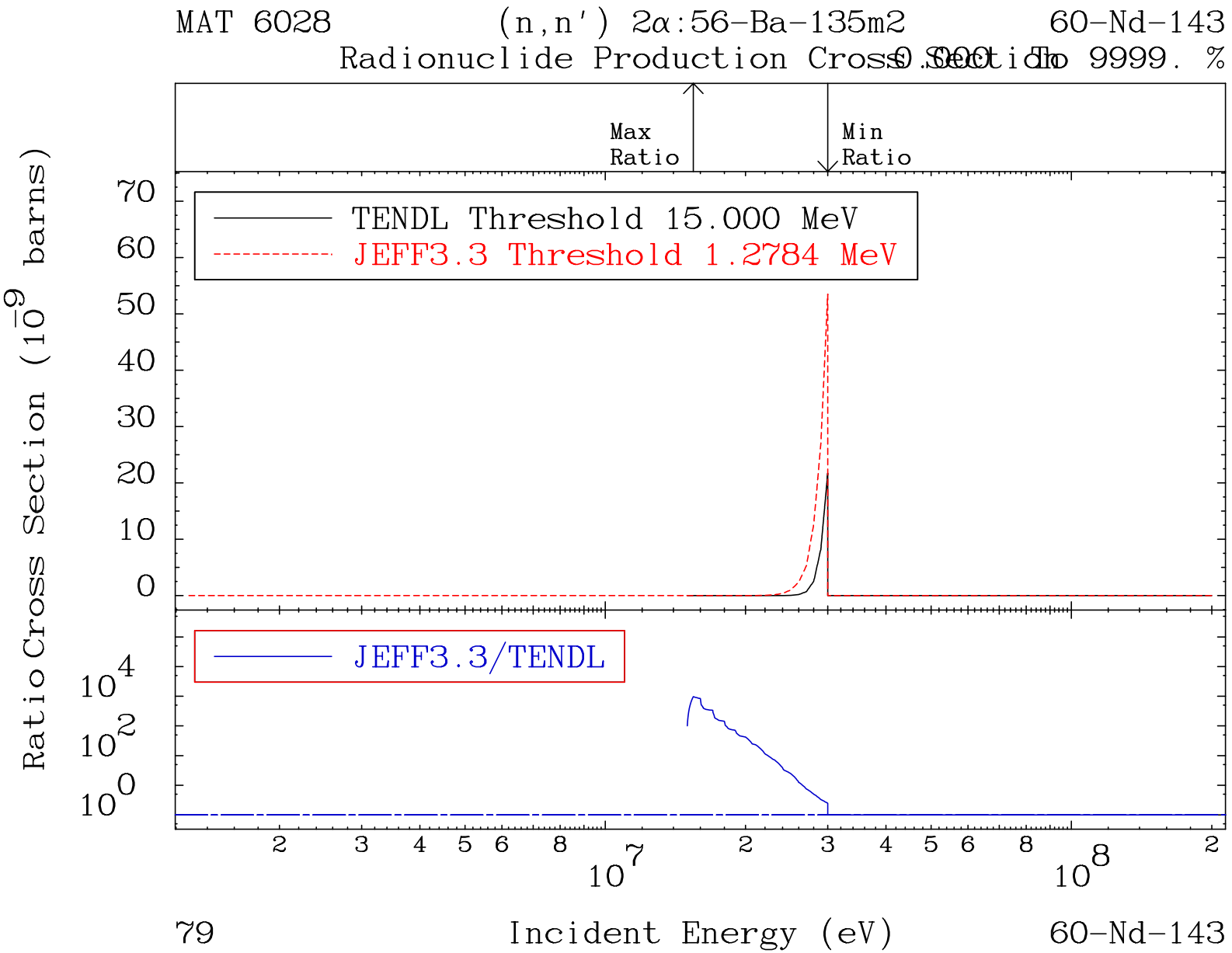

MAT 6028
(n,3n) α:58-Ce-137g
60-Nd-143
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.769 MeV
JEFF3.3 Threshold 16.769 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
74
60-Nd-143

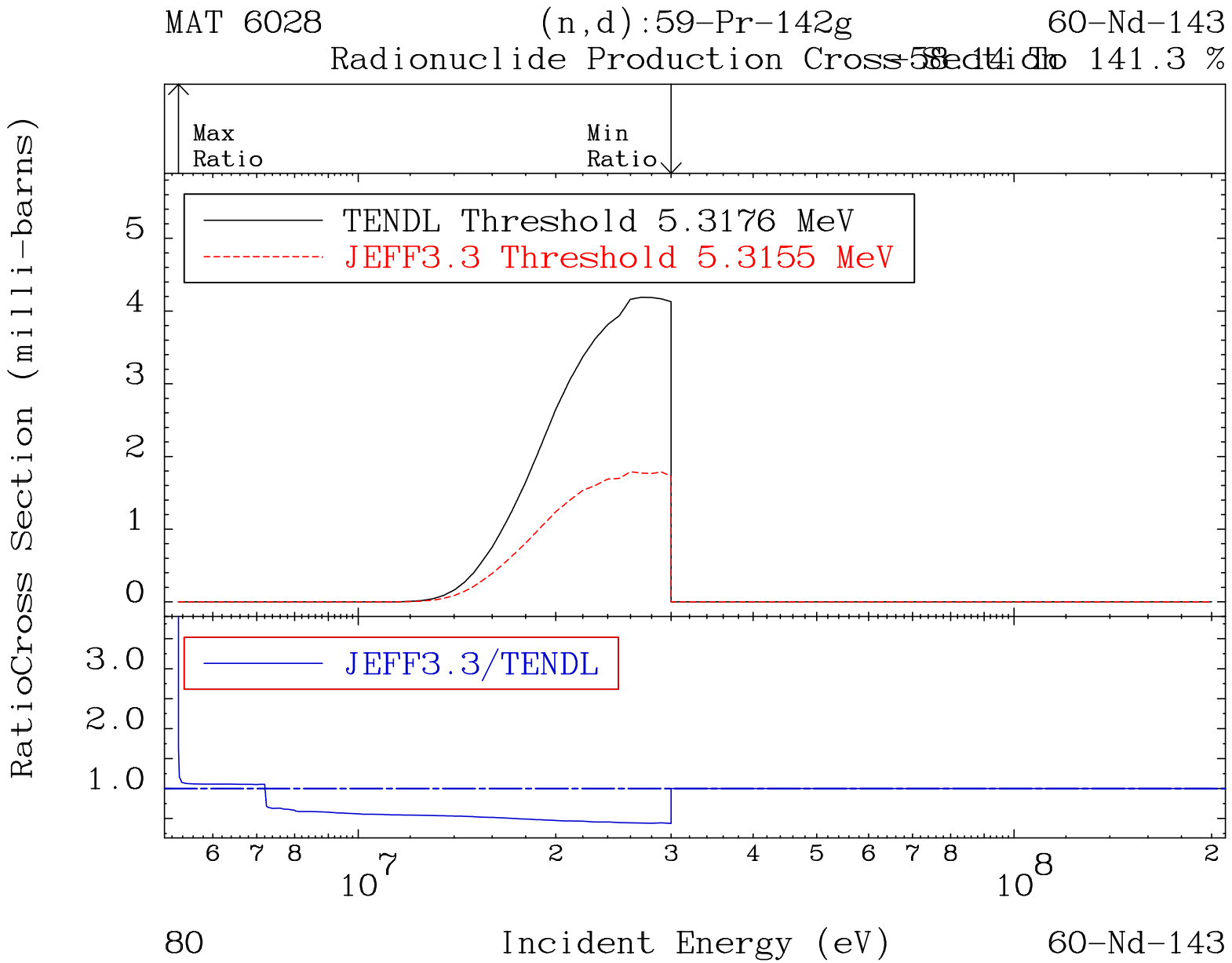

MAT 6028 (n,3n) α:58-Ce-137m2 60-Nd-143
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 17.025 MeV
JEFF3.3 Threshold 17.025 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
75
60-Nd-143

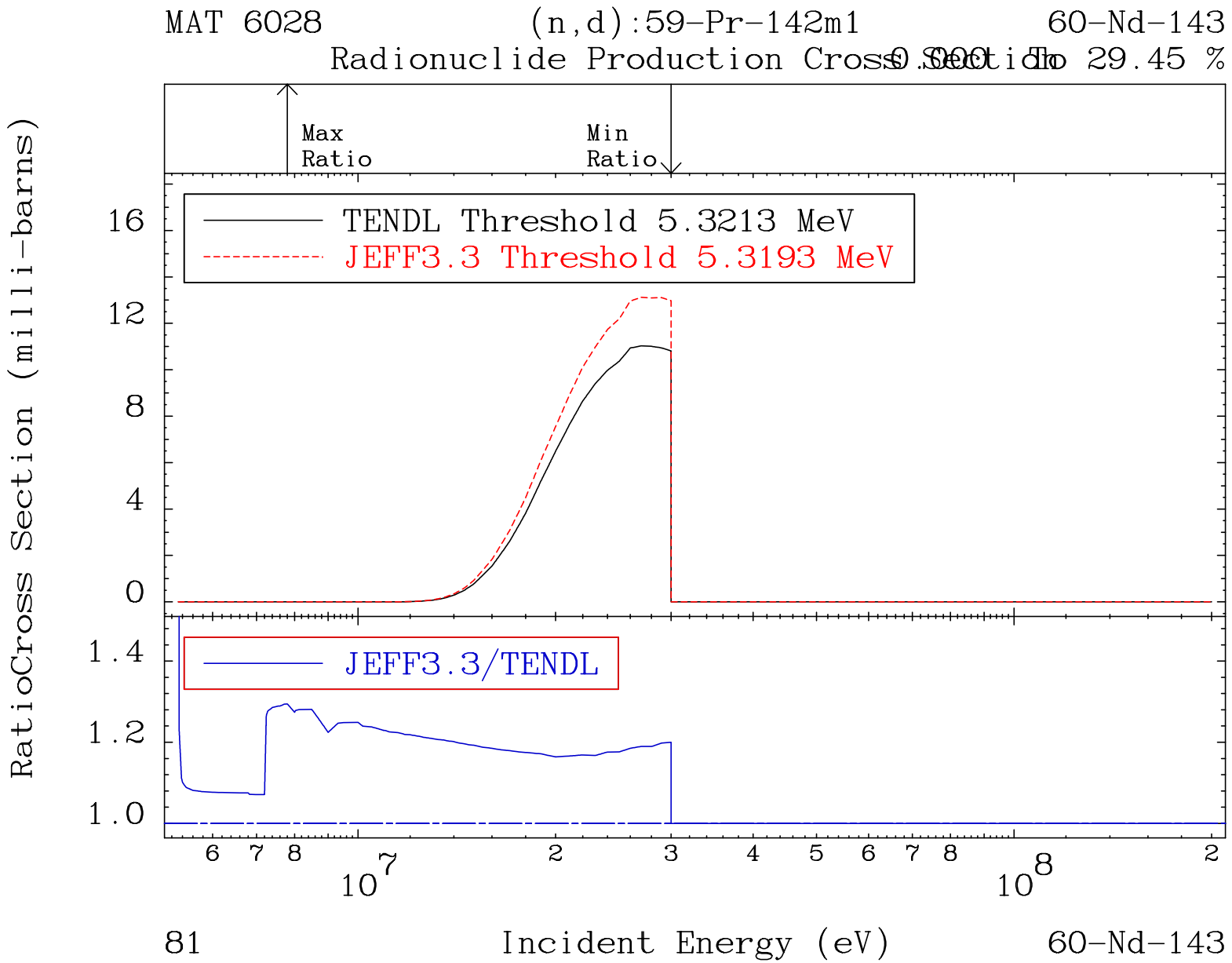

MAT 6028 (n,n') p:59-Pr-142g 60-Nd-143
Radionuclide Production Cross Section To 2465. %
Max Ratio
Min Ratio
TENDL Threshold 7.5579 MeV
JEFF3.3 Threshold 7.5558 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
10^2
10^1
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
76
Incident Energy (eV)
60-Nd-143


MAT 6028 (n,n') p:59-Pr-142m1 60-Nd-143
Radionuclide Production Cross Section
0.0001 To 1587. %
Max Ratio
Min Ratio
TENDL Threshold 7.5616 MeV
JEFF3.3 Threshold 7.5595 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
10^1
10^0
4
4
8
10^7
2
3
4
5
6
7
8
10^8
2
77
Incident Energy (eV)
60-Nd-143


MAT 6028 (n,n') 2α:56-Ba-135g 60-Nd-143
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 15.000 MeV
JEFF3.3 Threshold 1.0083 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
20
15
10
5
0
10^4
10^2
10^0
10^6
10^7
10^8
2 3 4 5 6 8 2 3 4 5 6 8 2
78
Incident Energy (eV)
60-Nd-143


MAT 6028 (n,n') 2α:56-Ba-135m2 60-Nd-143
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 15.000 MeV
JEFF3.3 Threshold 1.2784 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
79
60-Nd-143


MAT 6028
(n,d):59-Pr-142g
60-Nd-143
Radionuclide Production Cross Section Ratio
Max Ratio
Min Ratio
TENDL Threshold 5.3176 MeV
JEFF3.3 Threshold 5.3155 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80
60-Nd-143


MAT 6028
(n,d):59-Pr-142m1
60-Nd-143
Radionuclide Production Cross Section
0.000 To 29.45 %
Max Ratio
Min Ratio
TENDL Threshold 5.3213 MeV
JEFF3.3 Threshold 5.3193 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.4
1.2
1.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
81
Incident Energy (eV)
60-Nd-143