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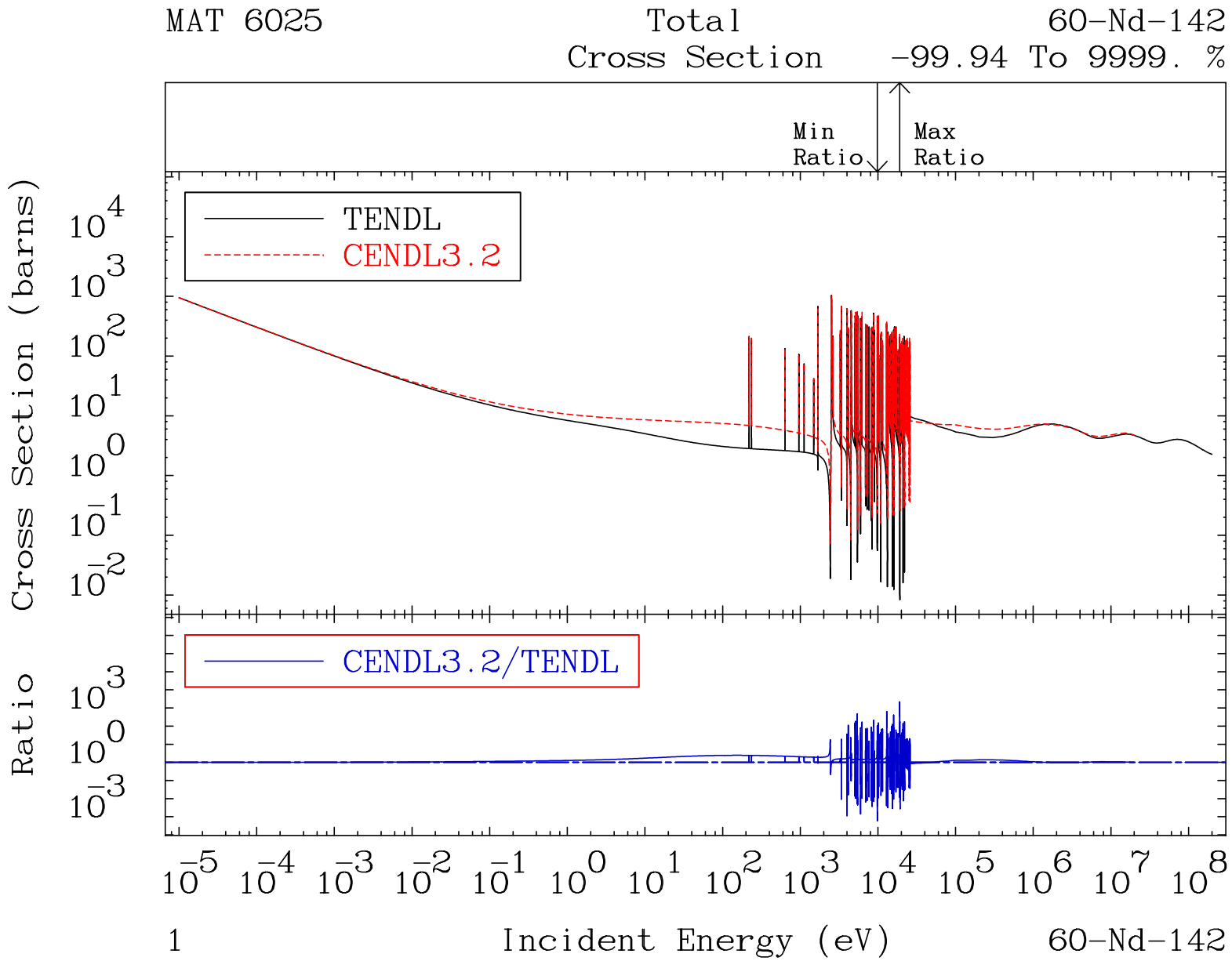
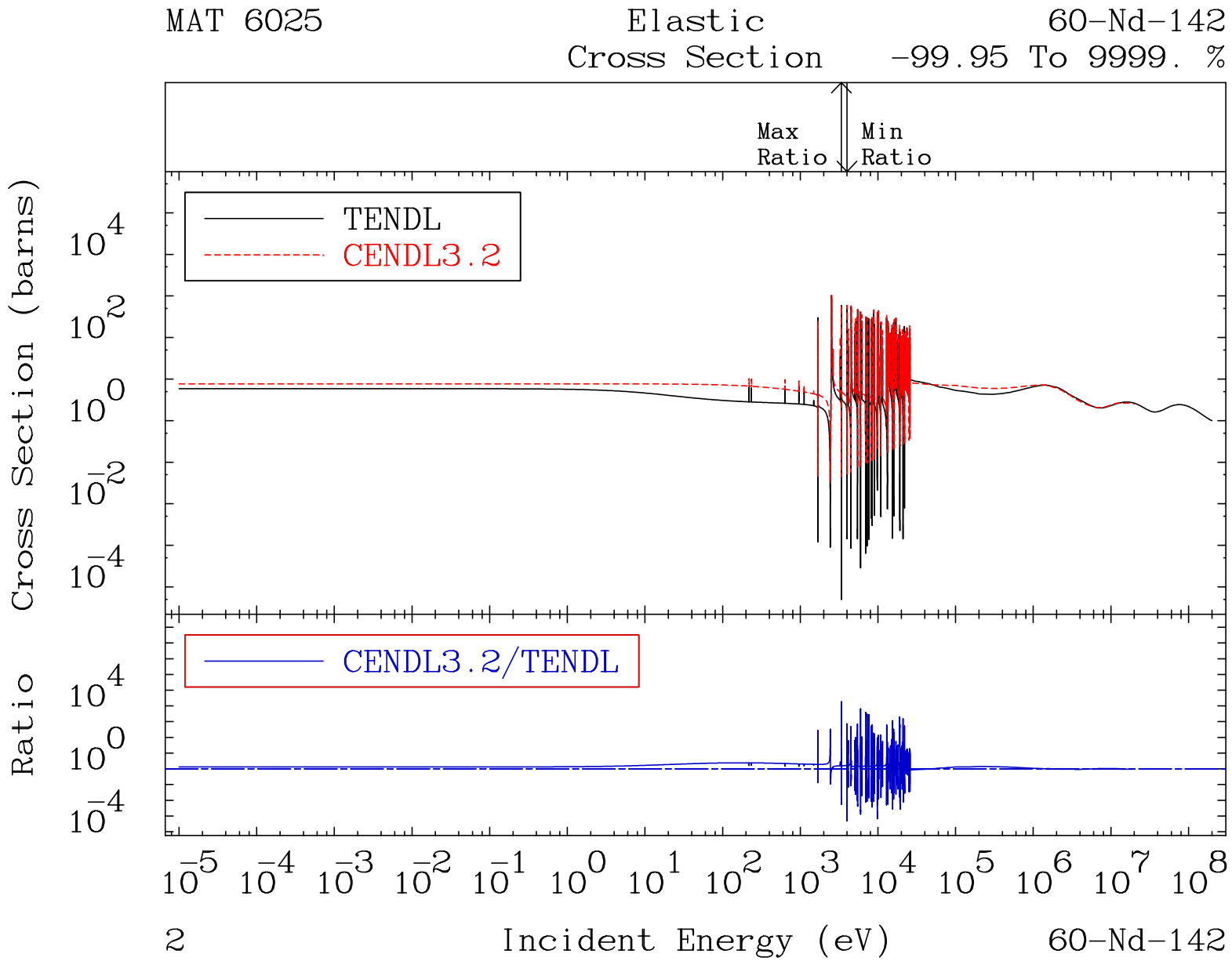
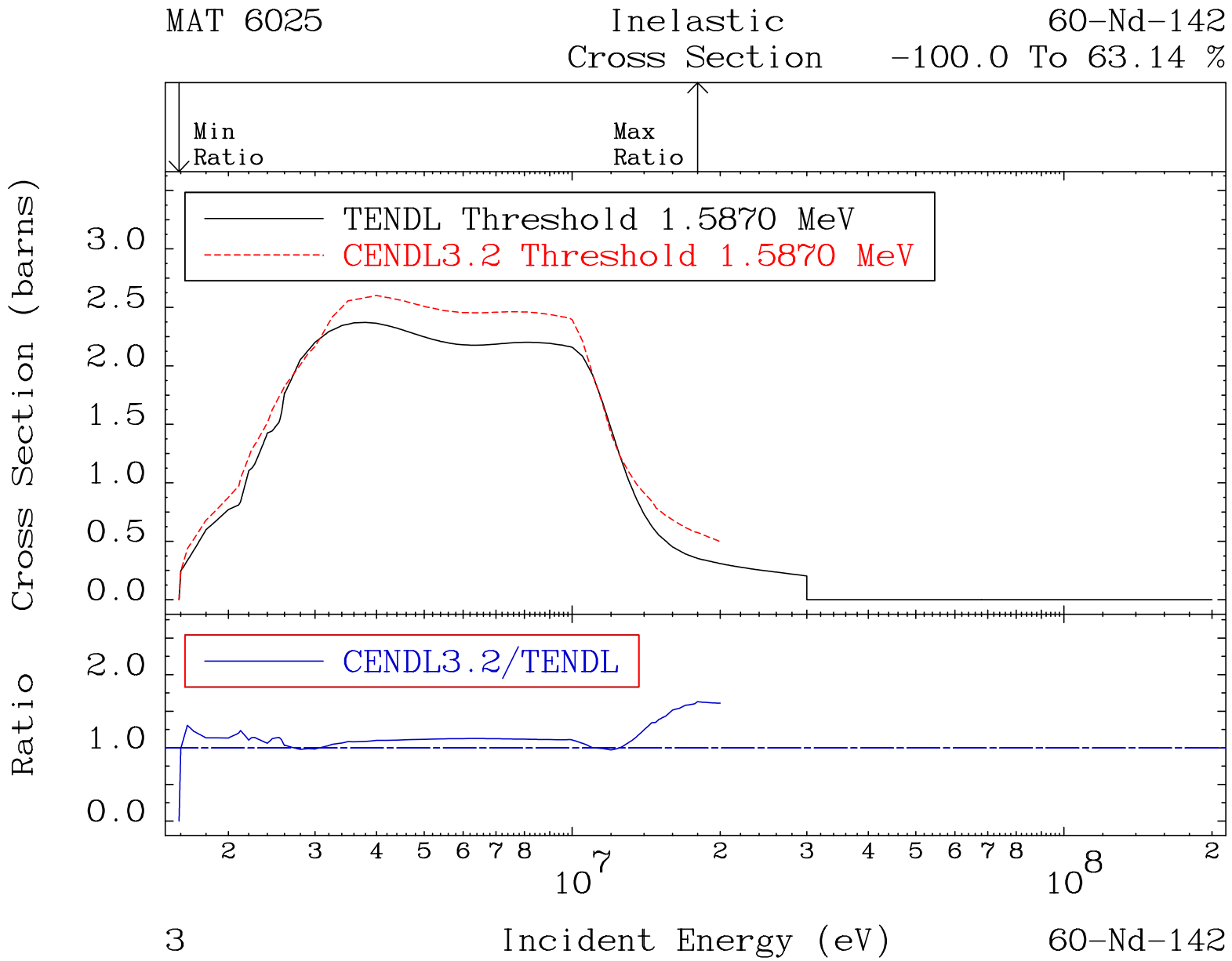
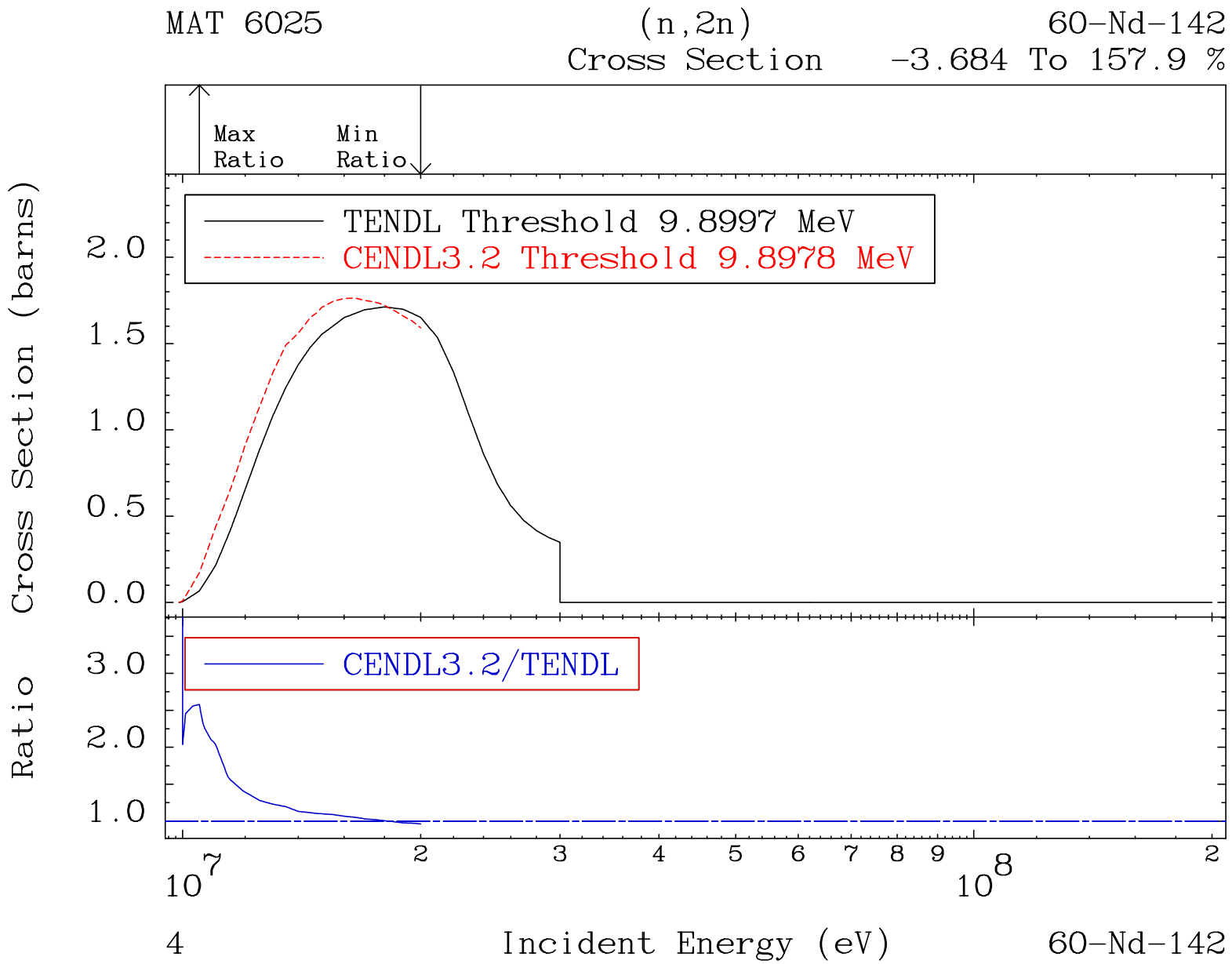
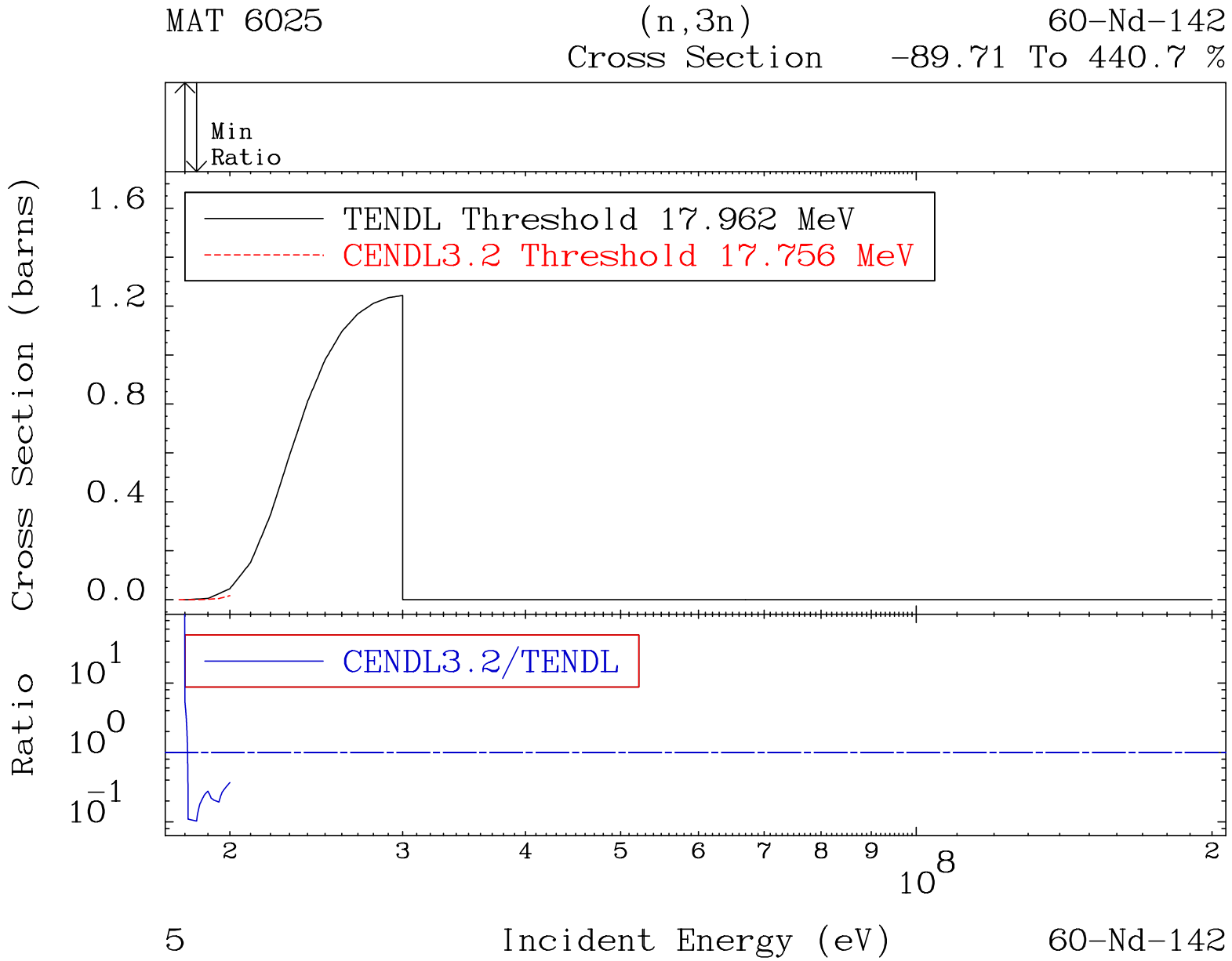
Press Mouse Button to Start

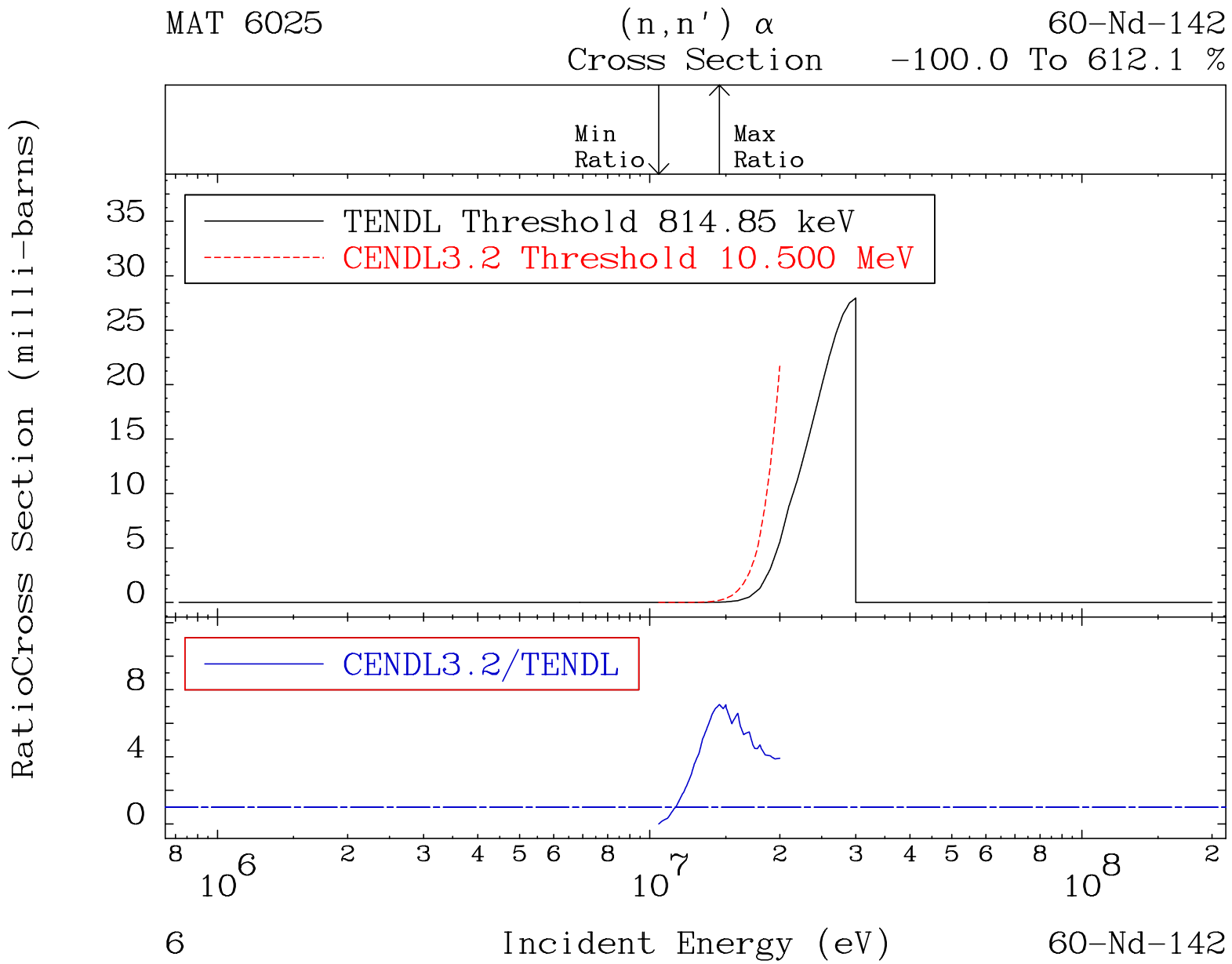

MAT 6025
Total
Cross Section
60-Nd-142
-99.94 To 9999. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
60-Nd-142

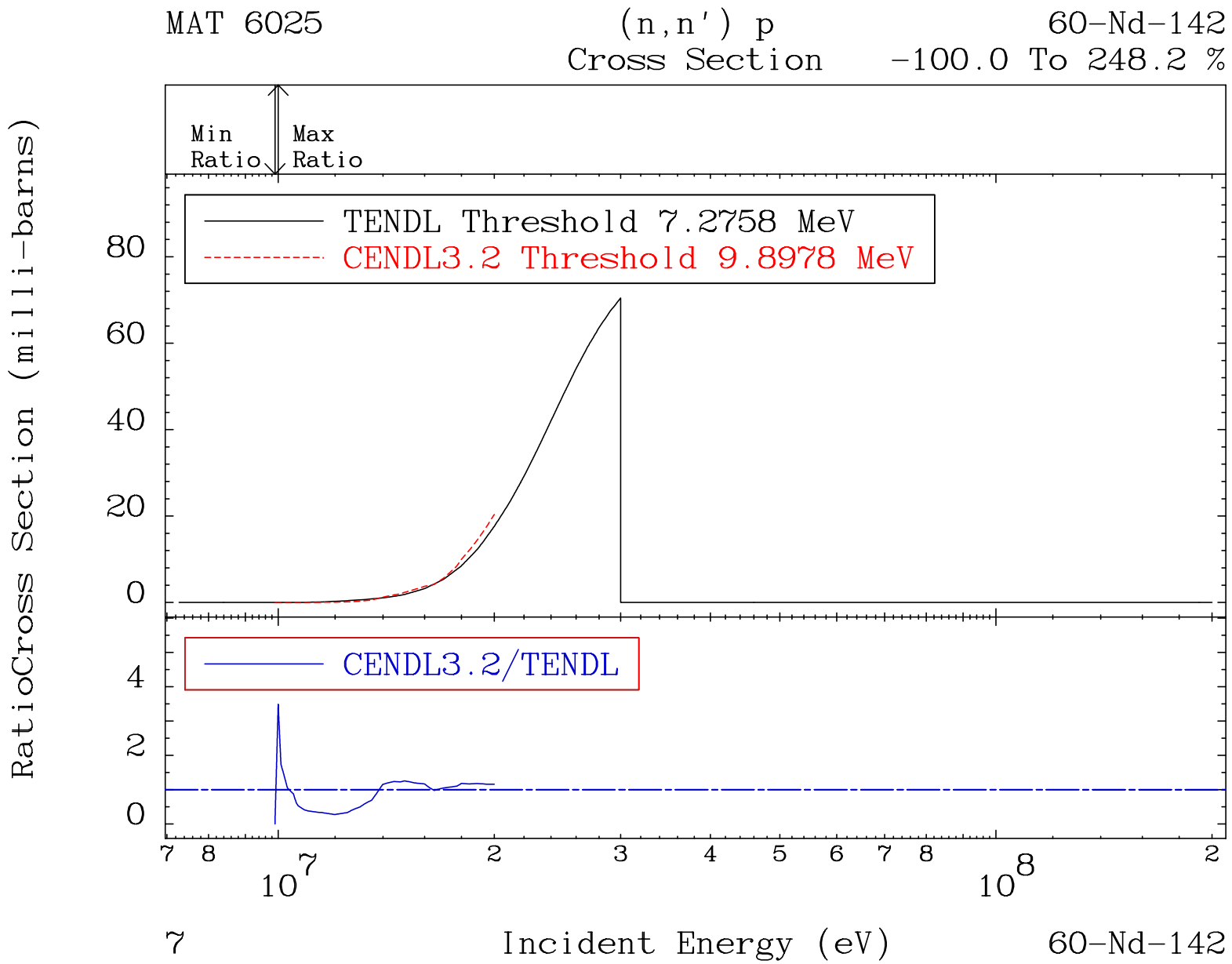

MAT 6025
Elastic
Cross Section
60-Nd-142
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
60-Nd-142

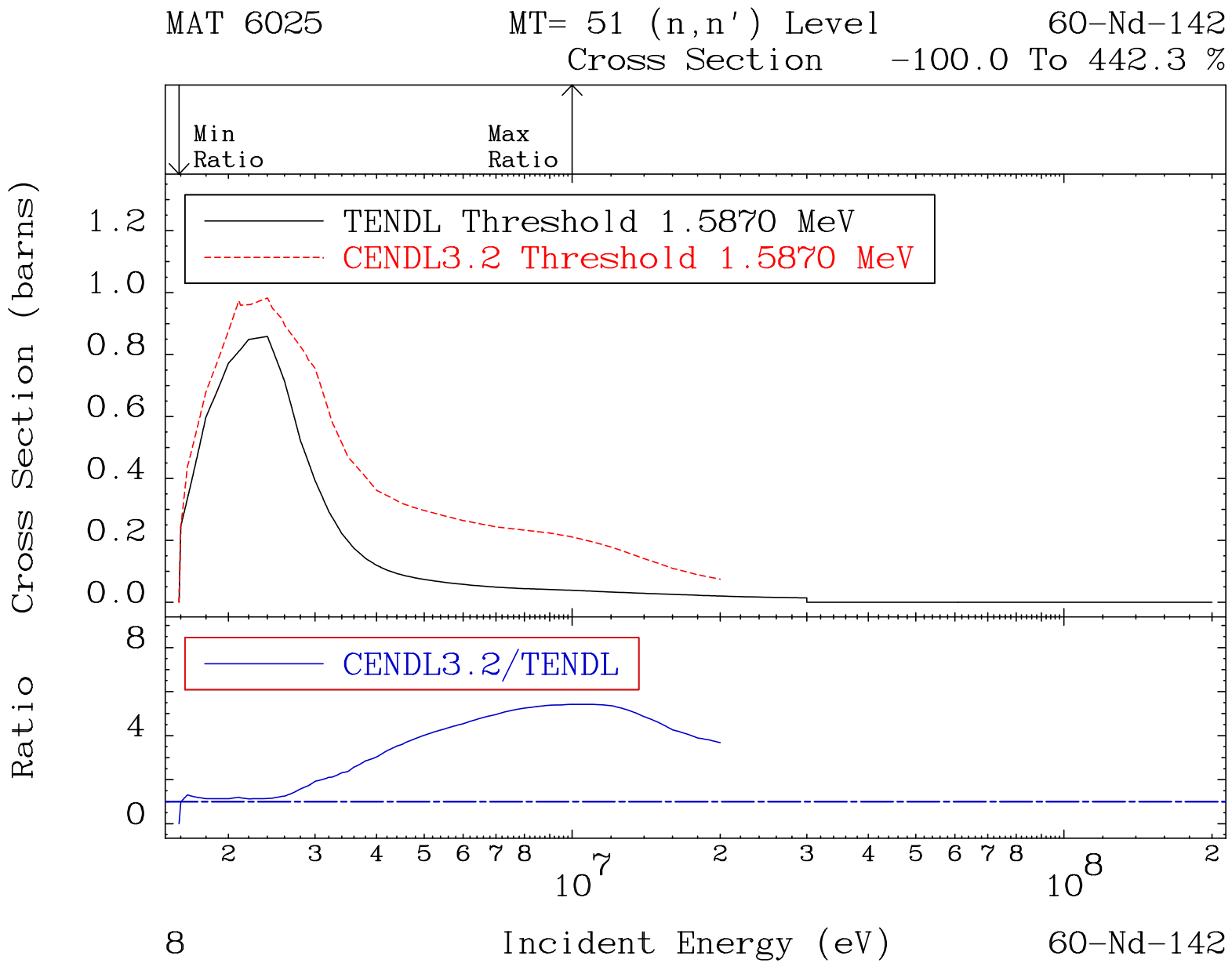

MAT 6025
Inelastic
Cross Section
60-Nd-142
-100.0 To 63.14 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5870 MeV
CENDL3.2 Threshold 1.5870 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
60-Nd-142

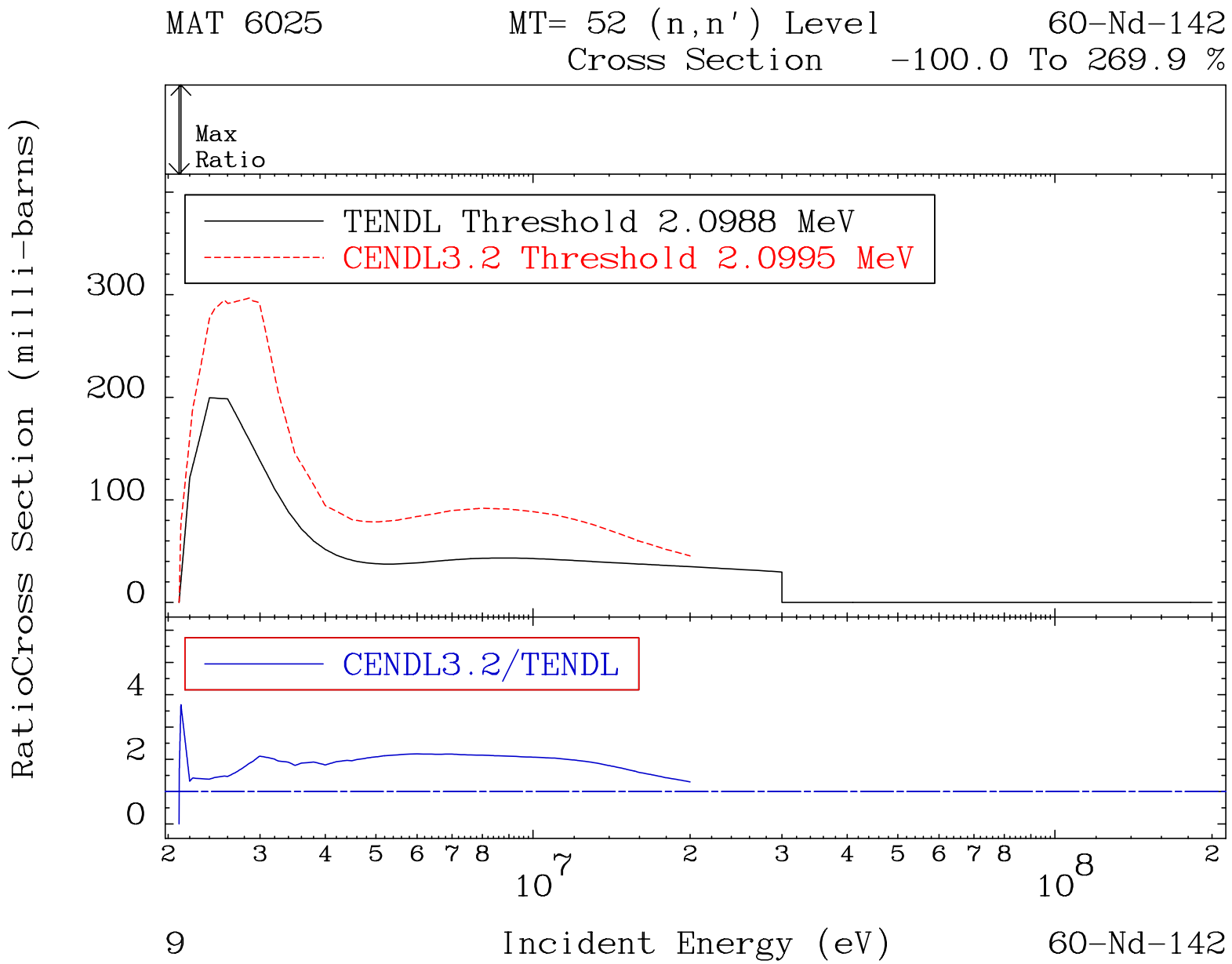

MAT 6025
(n,2n)
Cross Section
60-Nd-142
-3.684 To 157.9 %
Max Ratio
Min Ratio
TENDL Threshold 9.8997 MeV
CENDL3.2 Threshold 9.8978 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
60-Nd-142

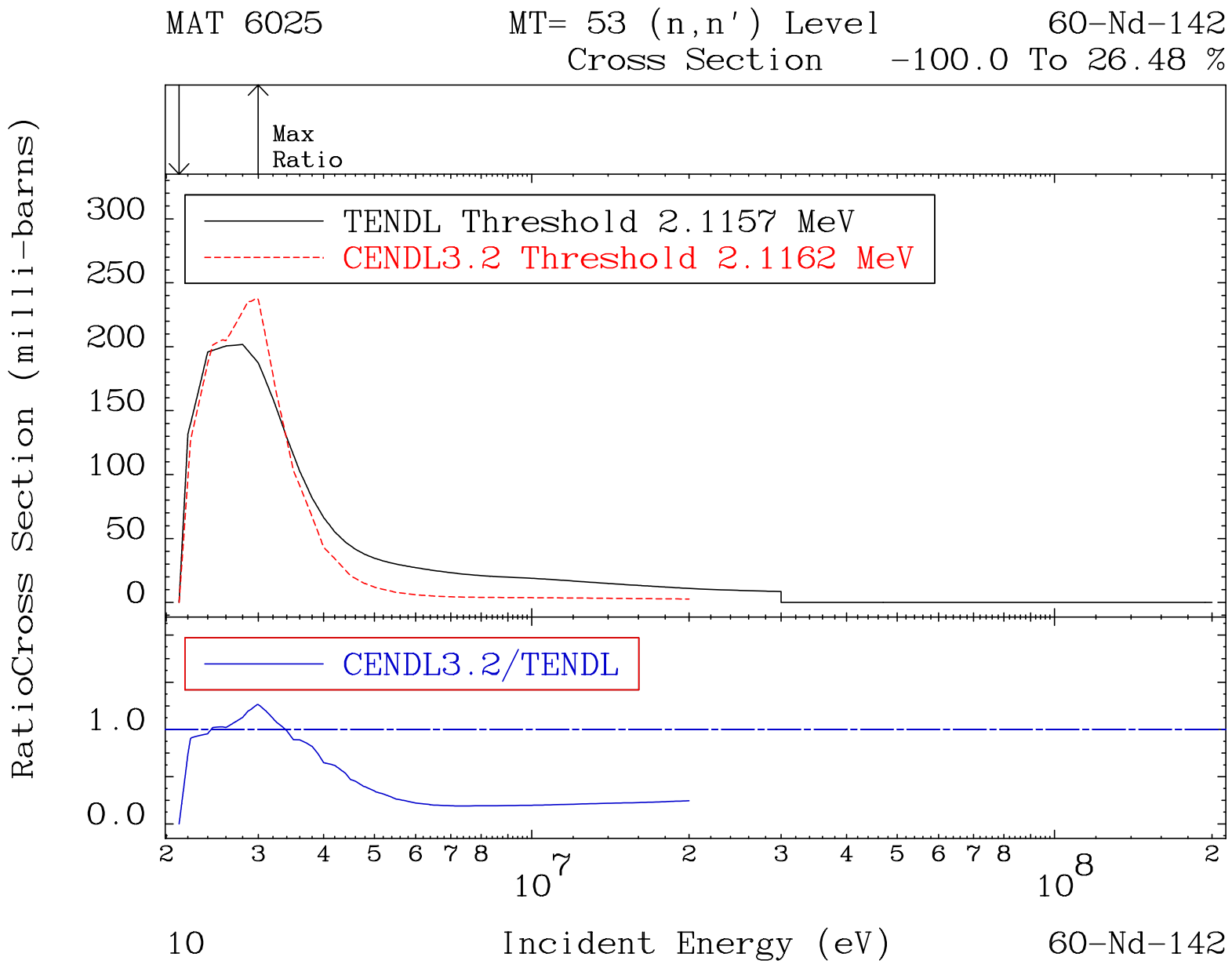

MAT 6025
(n,3n)
Cross Section
60-Nd-142
-89.71 To 440.7 %
Min
Ratio
TENDL Threshold 17.962 MeV
CENDL3.2 Threshold 17.756 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
10^1
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
60-Nd-142

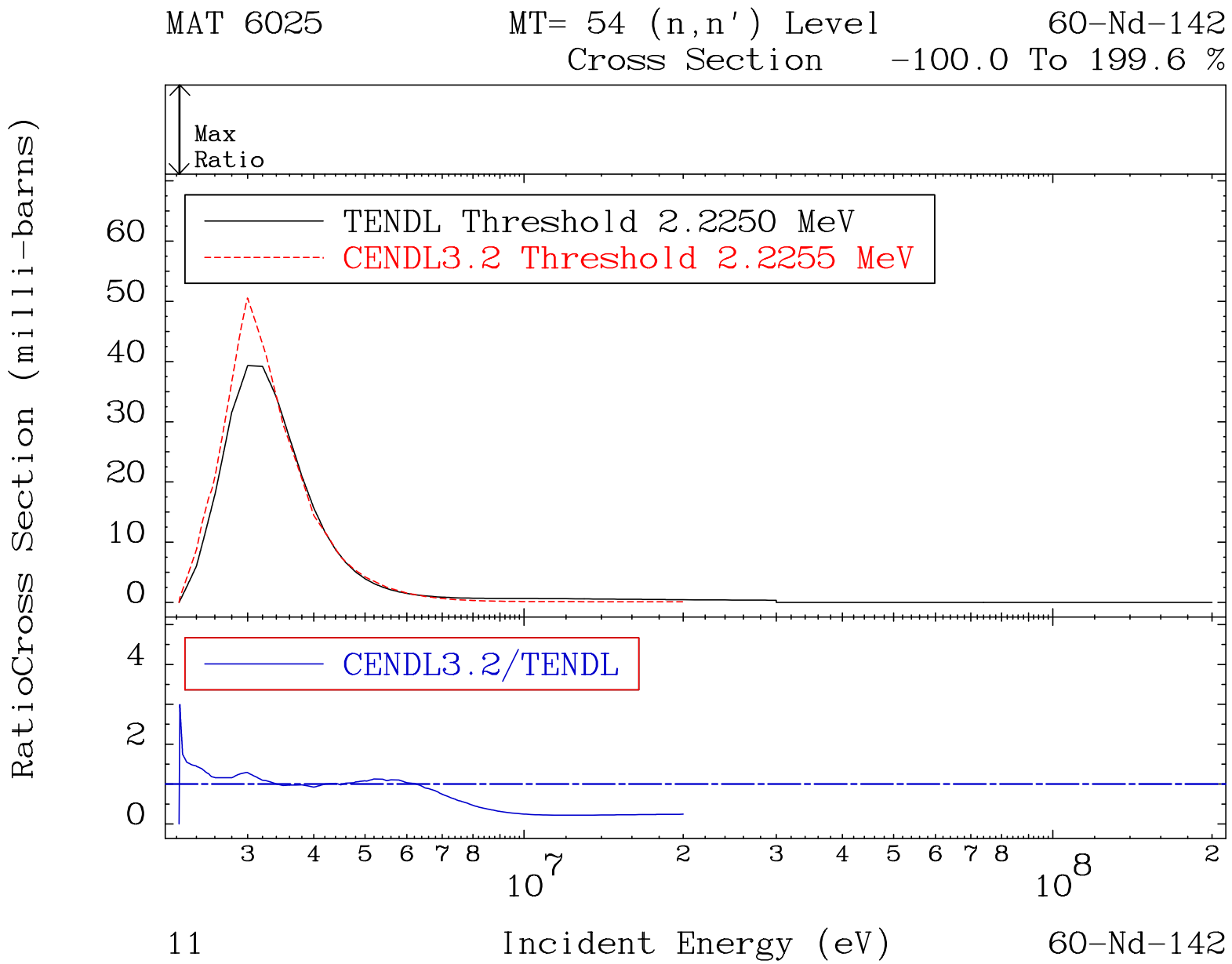

MAT 6025
(n,n') α
Cross Section
60-Nd-142
-100.0 To 612.1 %
Min Ratio
Max Ratio
TENDL Threshold 814.85 keV
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
60-Nd-142

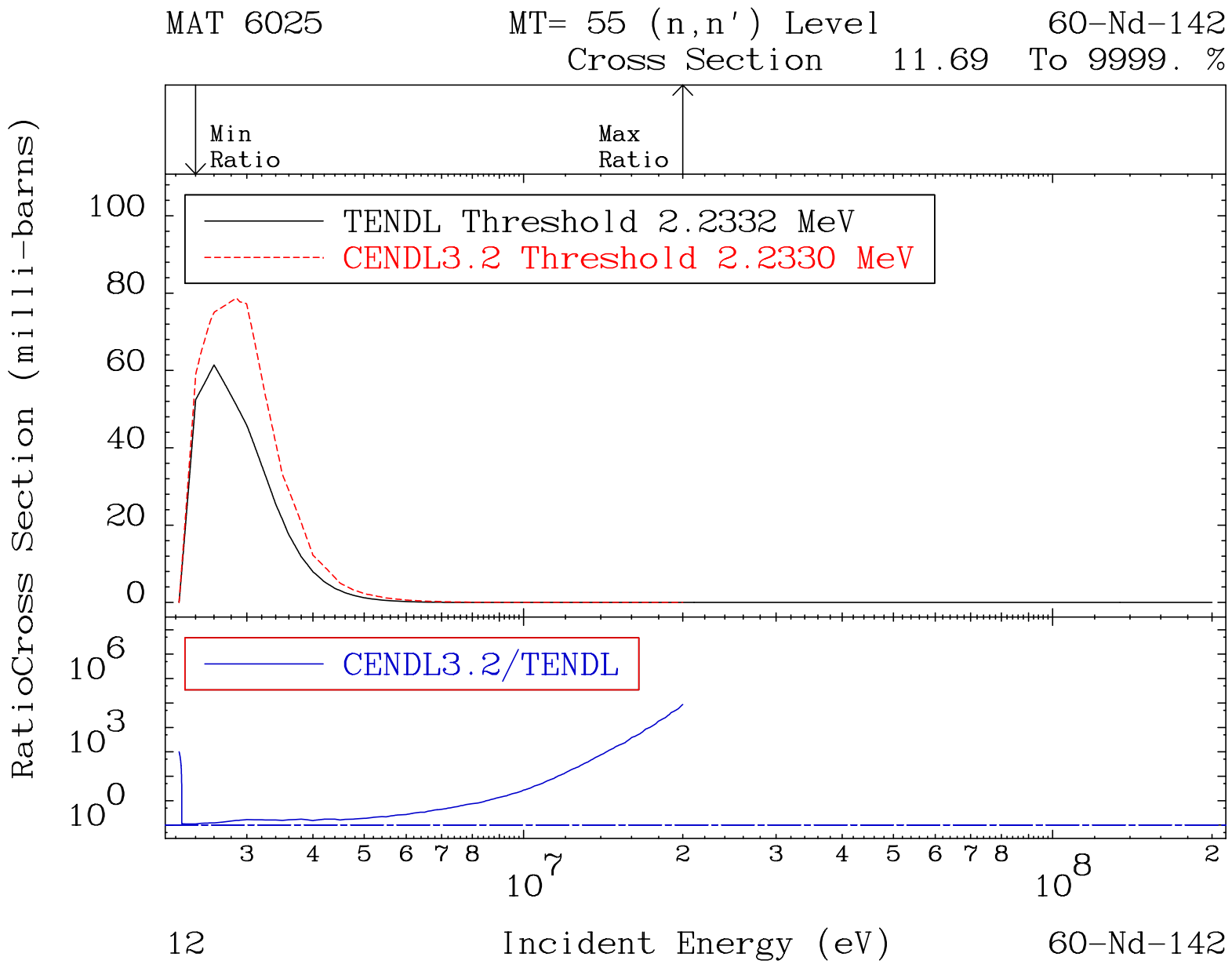

MAT 6025
(n,n') p
Cross Section
60-Nd-142
-100.0 To 248.2 %
Min Ratio
Max Ratio
TENDL Threshold 7.2758 MeV
CENDL3.2 Threshold 9.8978 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
60-Nd-142

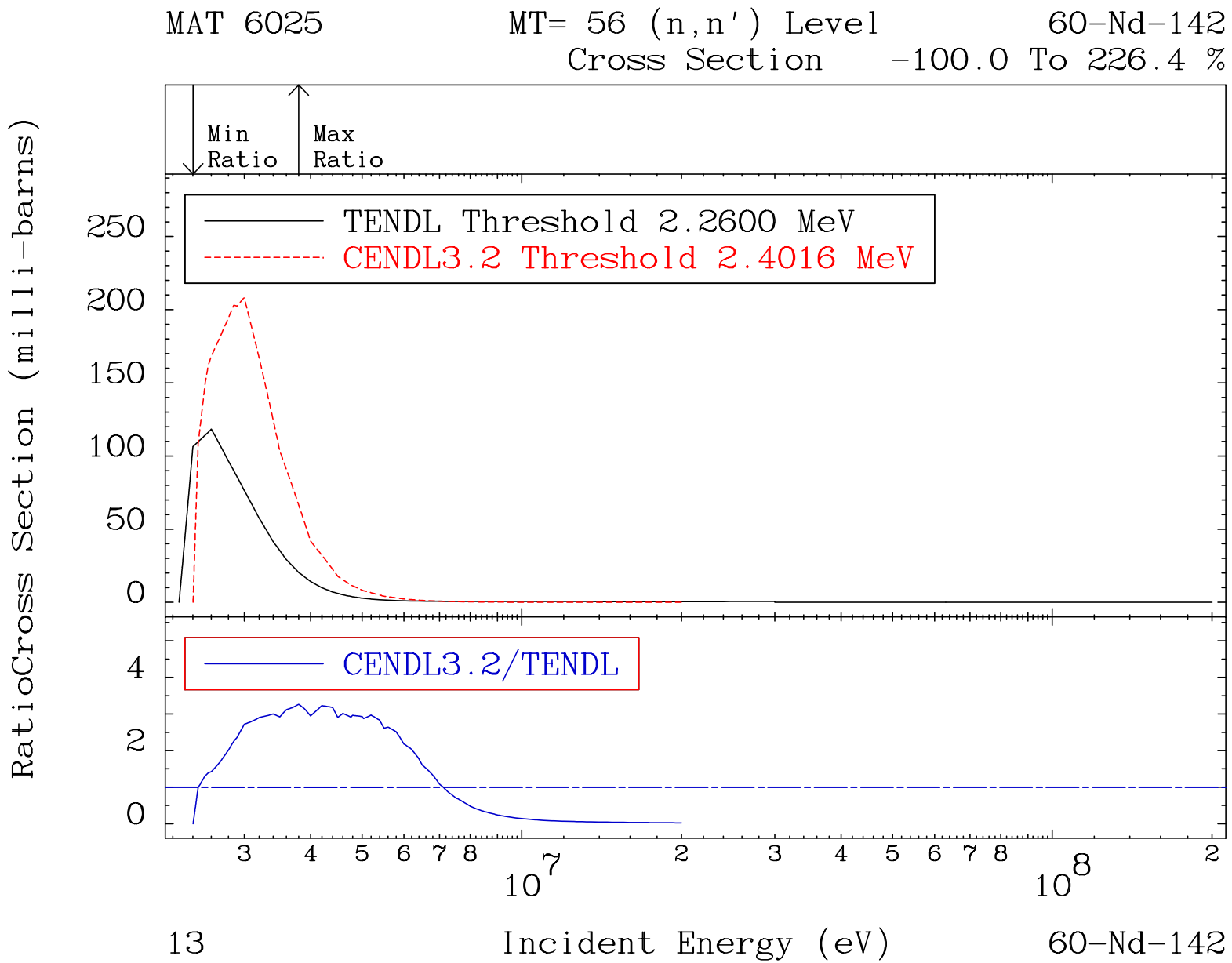

MAT 6025
MT= 51 (n,n') Level
60-Nd-142
Cross Section -100.0 To 442.3 %
Min Ratio
Max Ratio
TENDL Threshold 1.5870 MeV
CENDL3.2 Threshold 1.5870 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
60-Nd-142

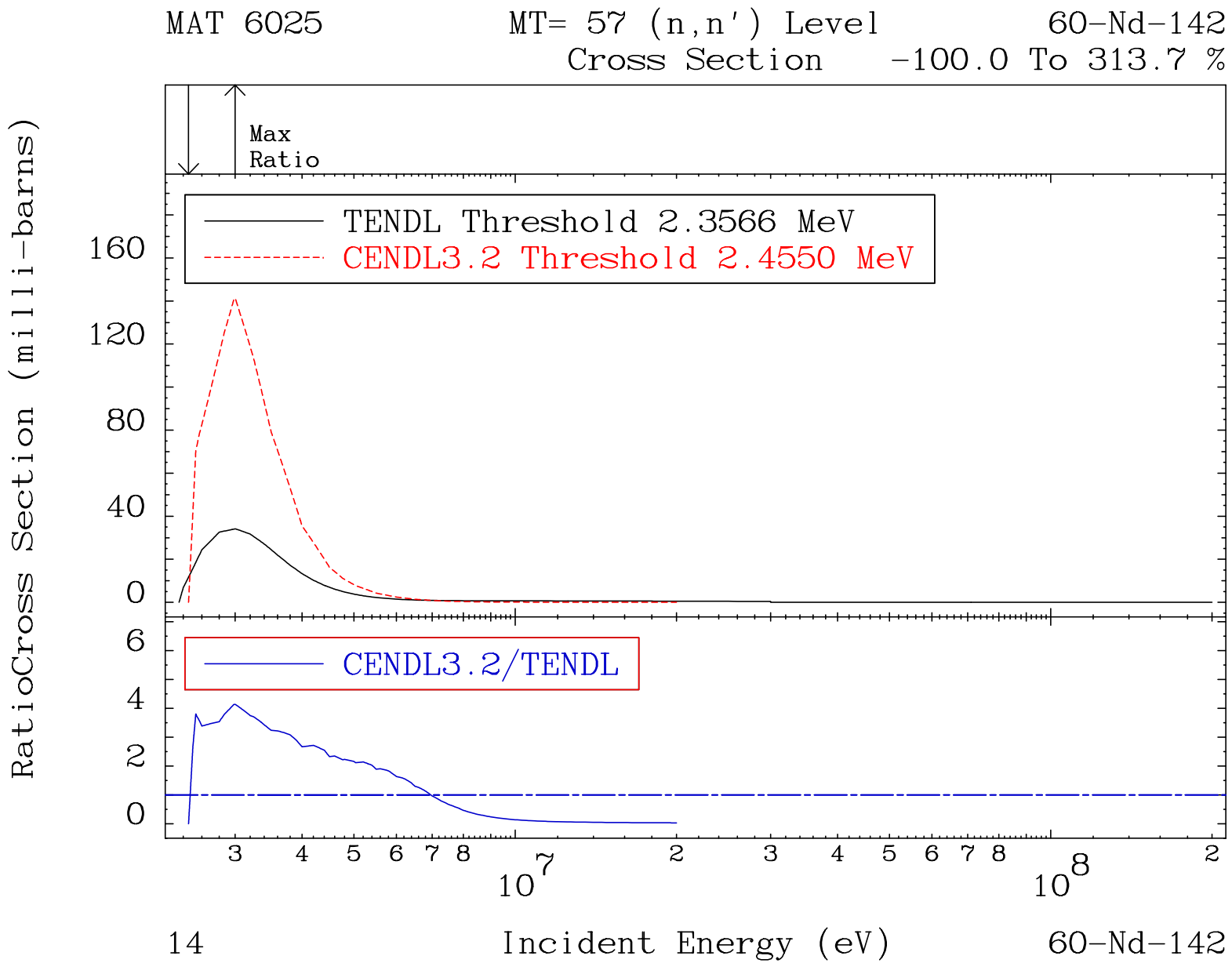

MAT 6025
MT= 52 (n,n') Level
Cross Section
60-Nd-142
-100.0 To 269.9 %
Max
Ratio
TENDL Threshold 2.0988 MeV
CENDL3.2 Threshold 2.0995 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
200
100
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
Incident Energy (eV)
9
60-Nd-142

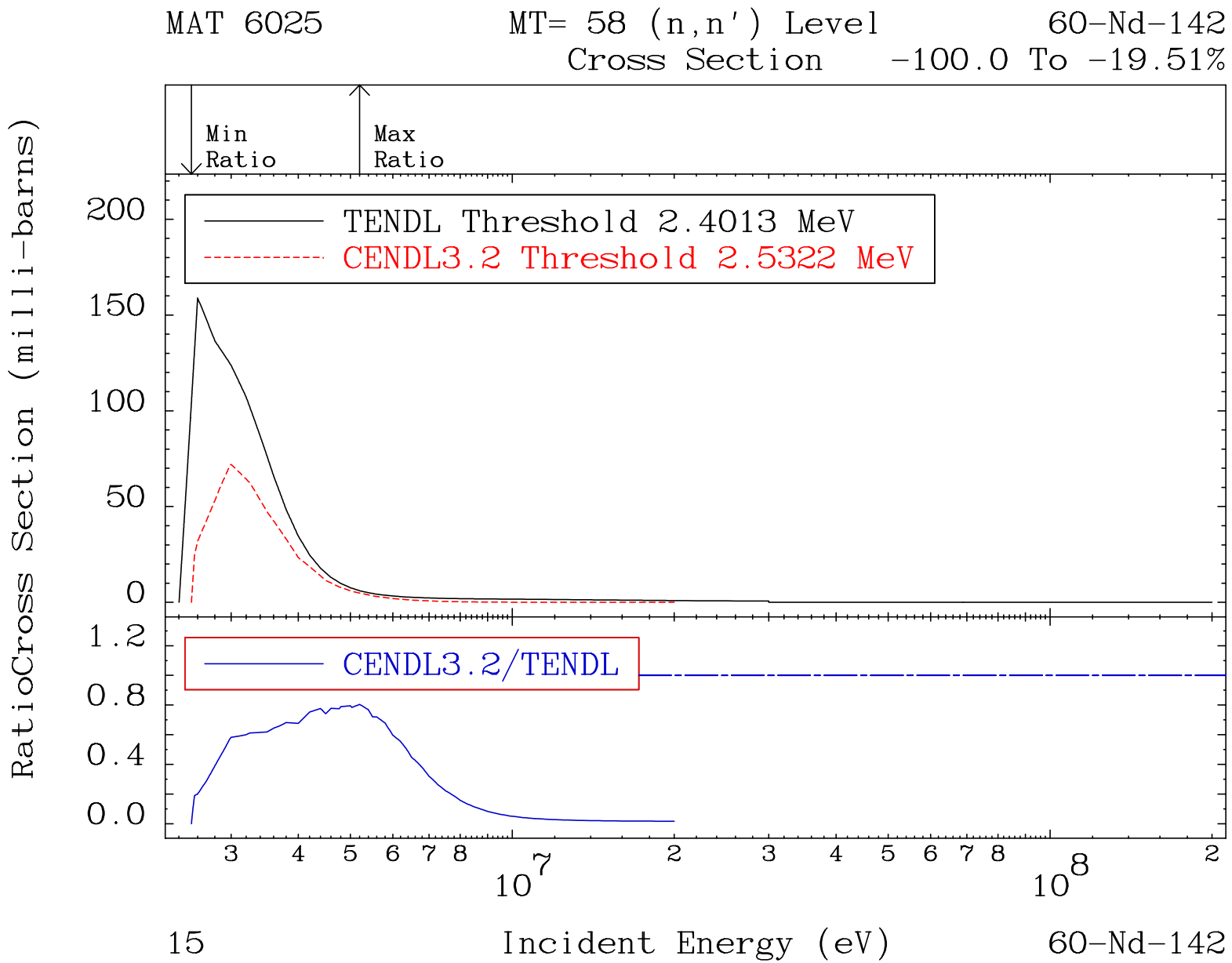

MAT 6025
MT= 53 (n,n') Level
60-Nd-142
Cross Section
-100.0 To 26.48 %
Max
Ratio
TENDL Threshold 2.1157 MeV
CENDL3.2 Threshold 2.1162 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
60-Nd-142

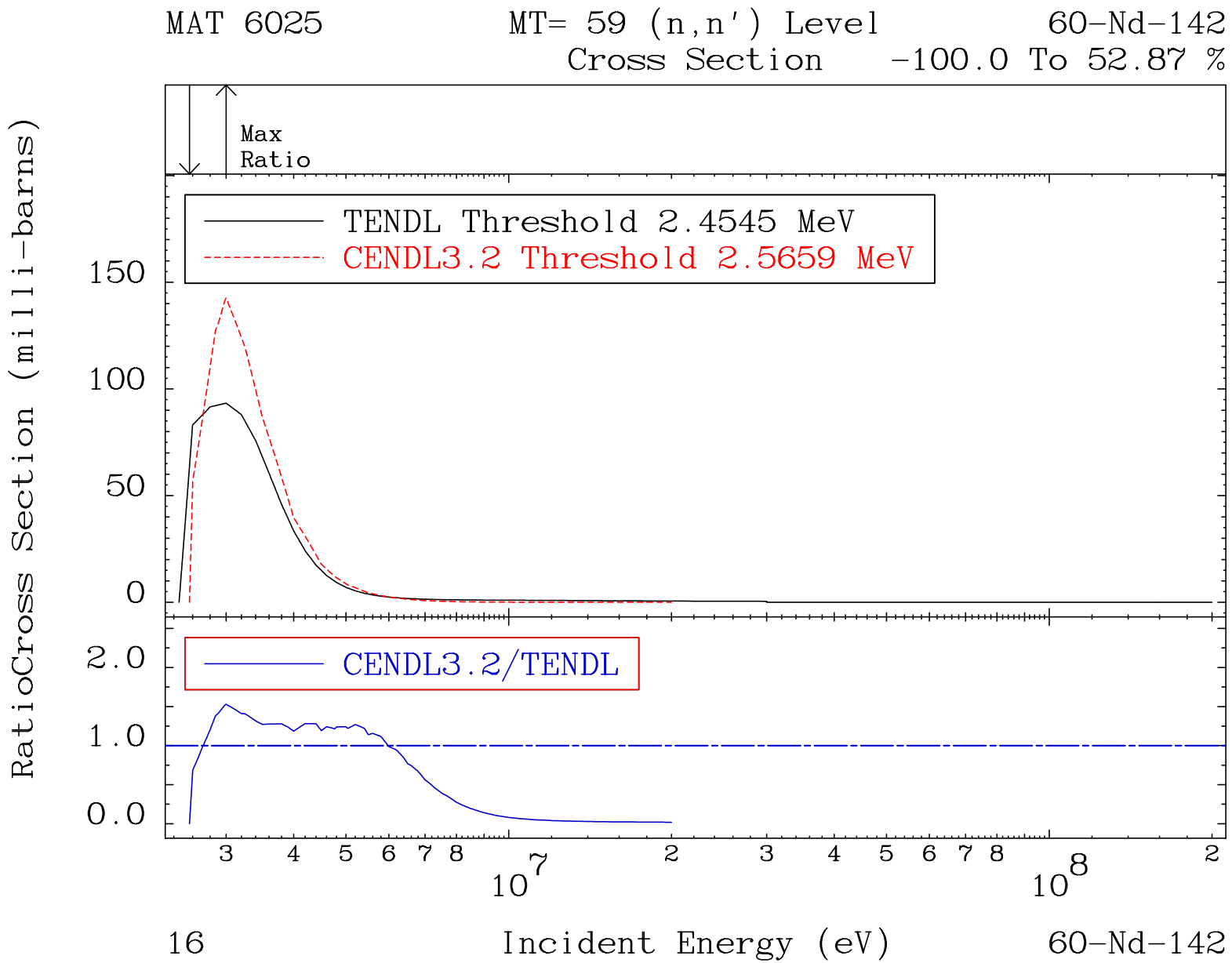

MAT 6025
MT= 54 (n,n') Level
60-Nd-142
Cross Section
-100.0 To 199.6 %
Max
Ratio
TENDL Threshold 2.2250 MeV
CENDL3.2 Threshold 2.2255 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
60-Nd-142

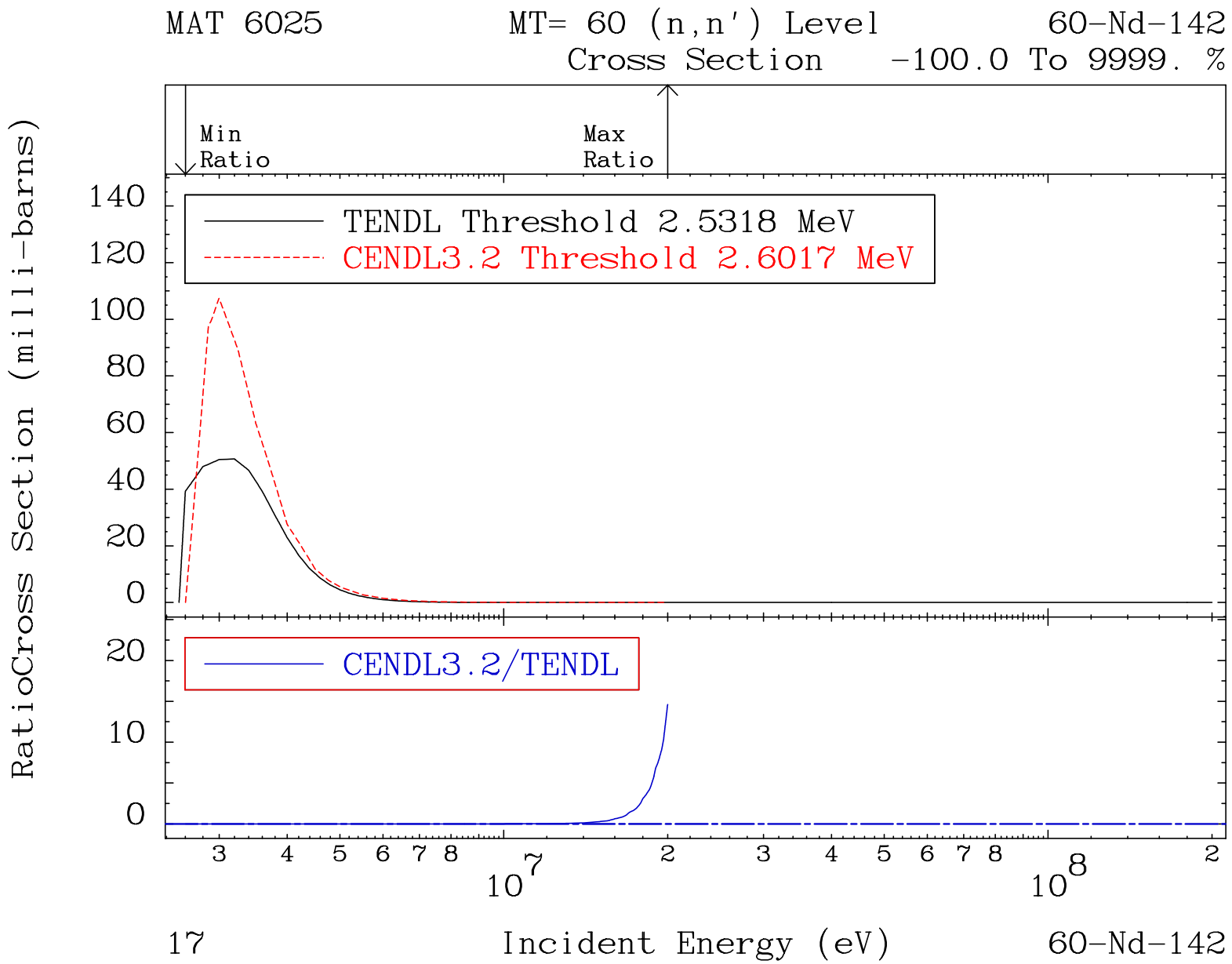

MAT 6025
MT= 55 (n,n') Level
60-Nd-142
Cross Section 11.69 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.2332 MeV
CENDL3.2 Threshold 2.2330 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
60-Nd-142

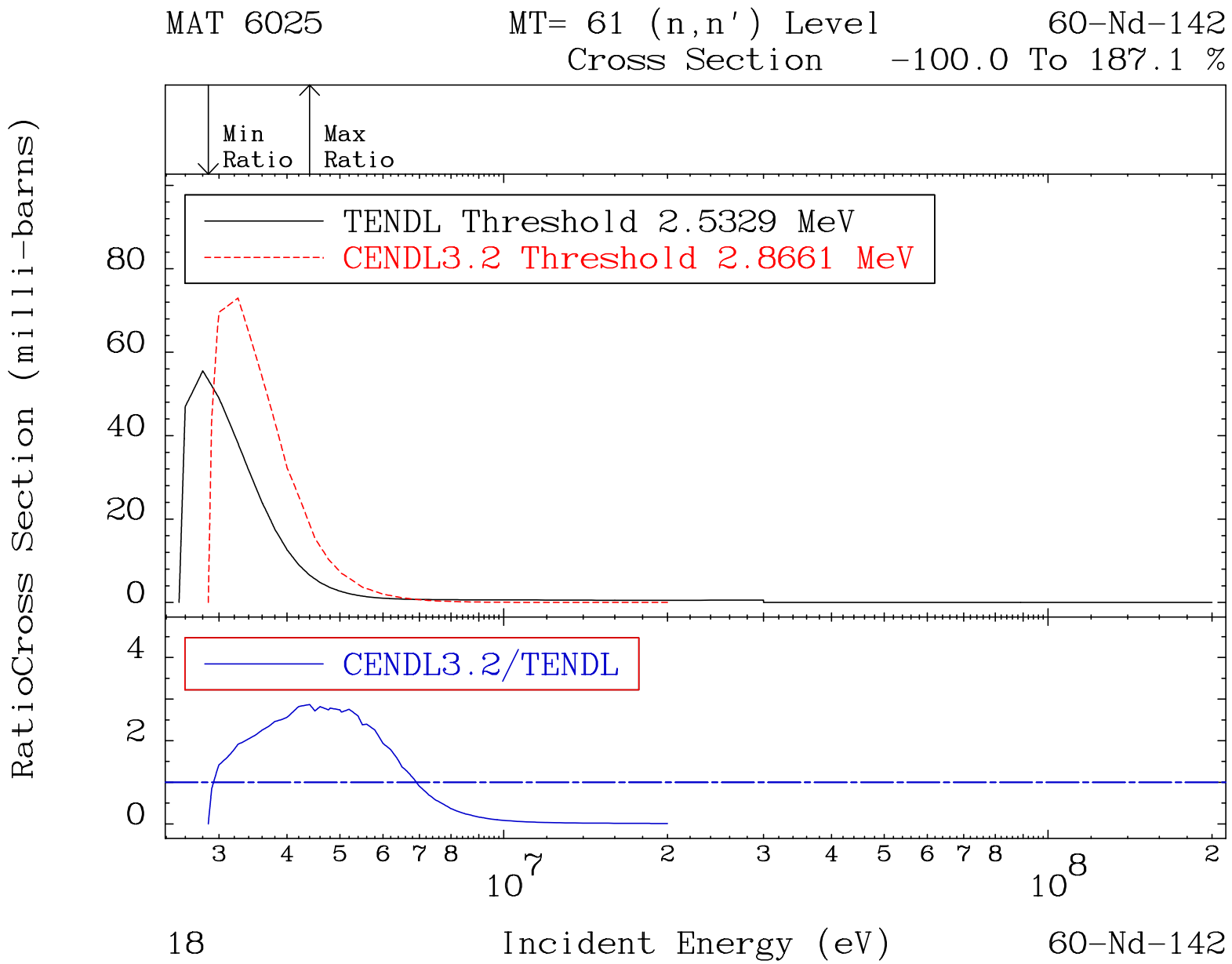

MAT 6025
MT= 56 (n,n') Level
60-Nd-142
Cross Section
-100.0 To 226.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.2600 MeV
CENDL3.2 Threshold 2.4016 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
60-Nd-142

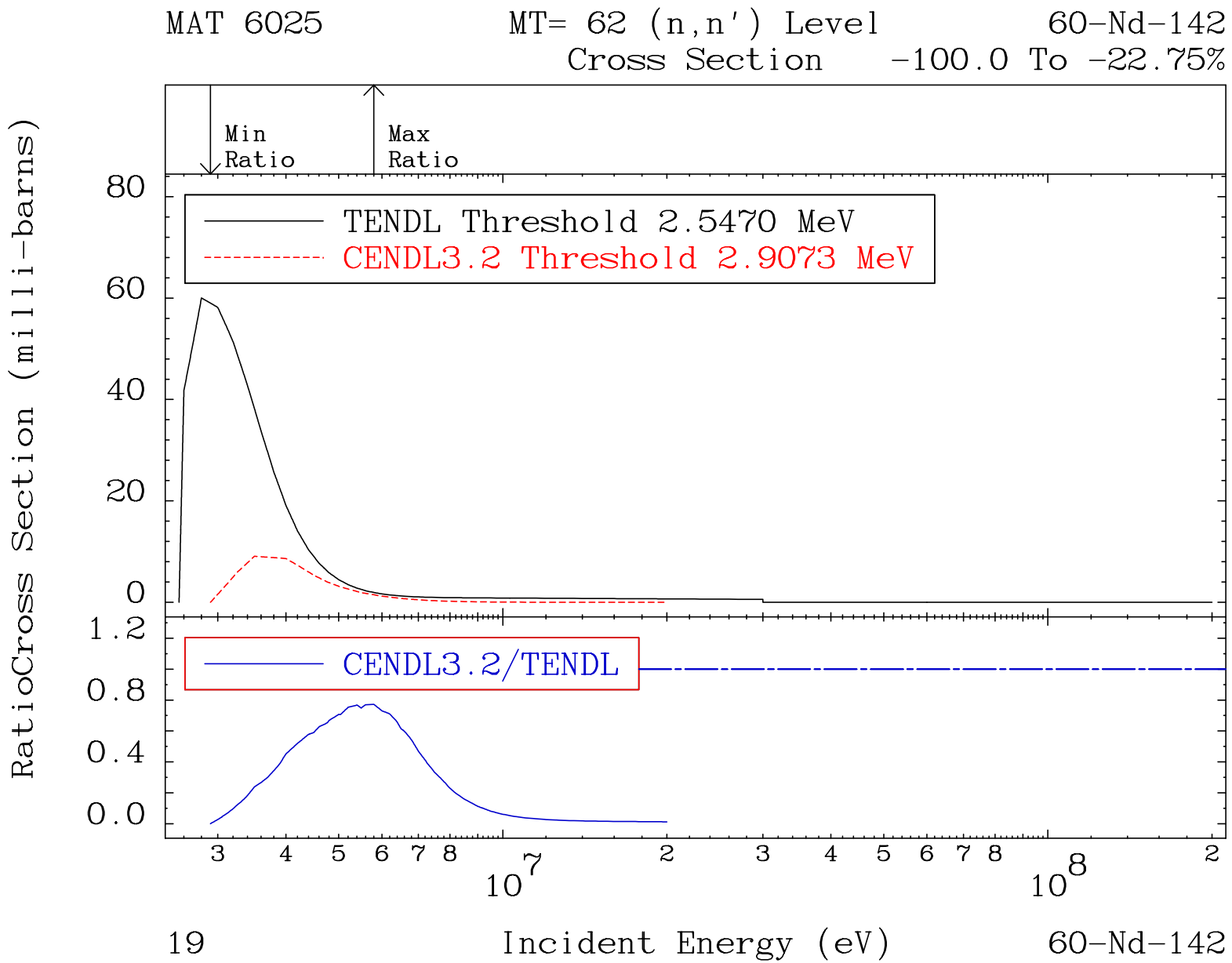

MAT 6025
MT= 57 (n,n') Level
60-Nd-142
Cross Section
-100.0 To 313.7 %
Max
Ratio
TENDL Threshold 2.3566 MeV
CENDL3.2 Threshold 2.4550 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
6
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
60-Nd-142

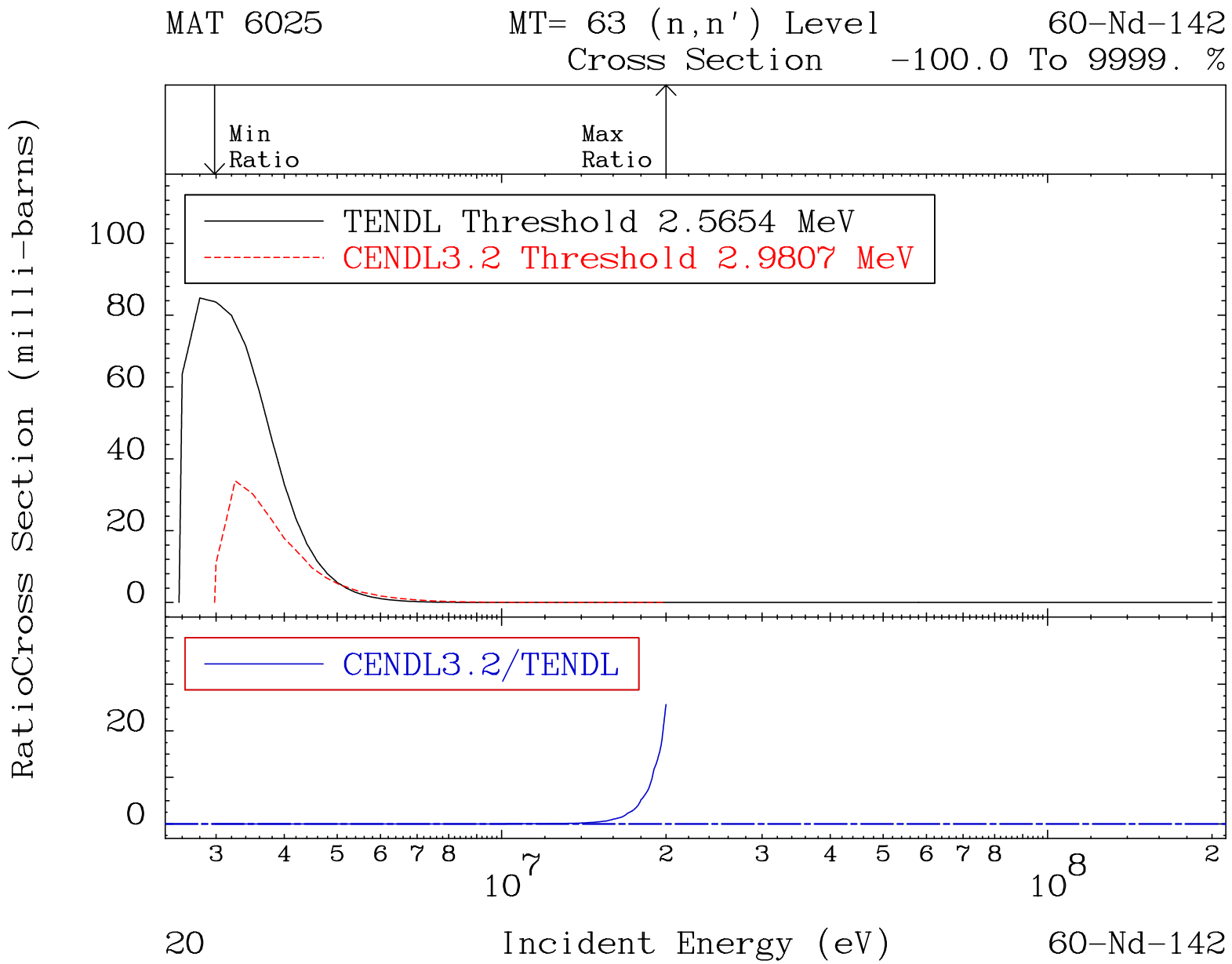

MAT 6025
MT= 58 (n,n') Level
60-Nd-142
Cross Section -100.0 To -19.51%
Min Ratio
Max Ratio
TENDL Threshold 2.4013 MeV
CENDL3.2 Threshold 2.5322 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
60-Nd-142

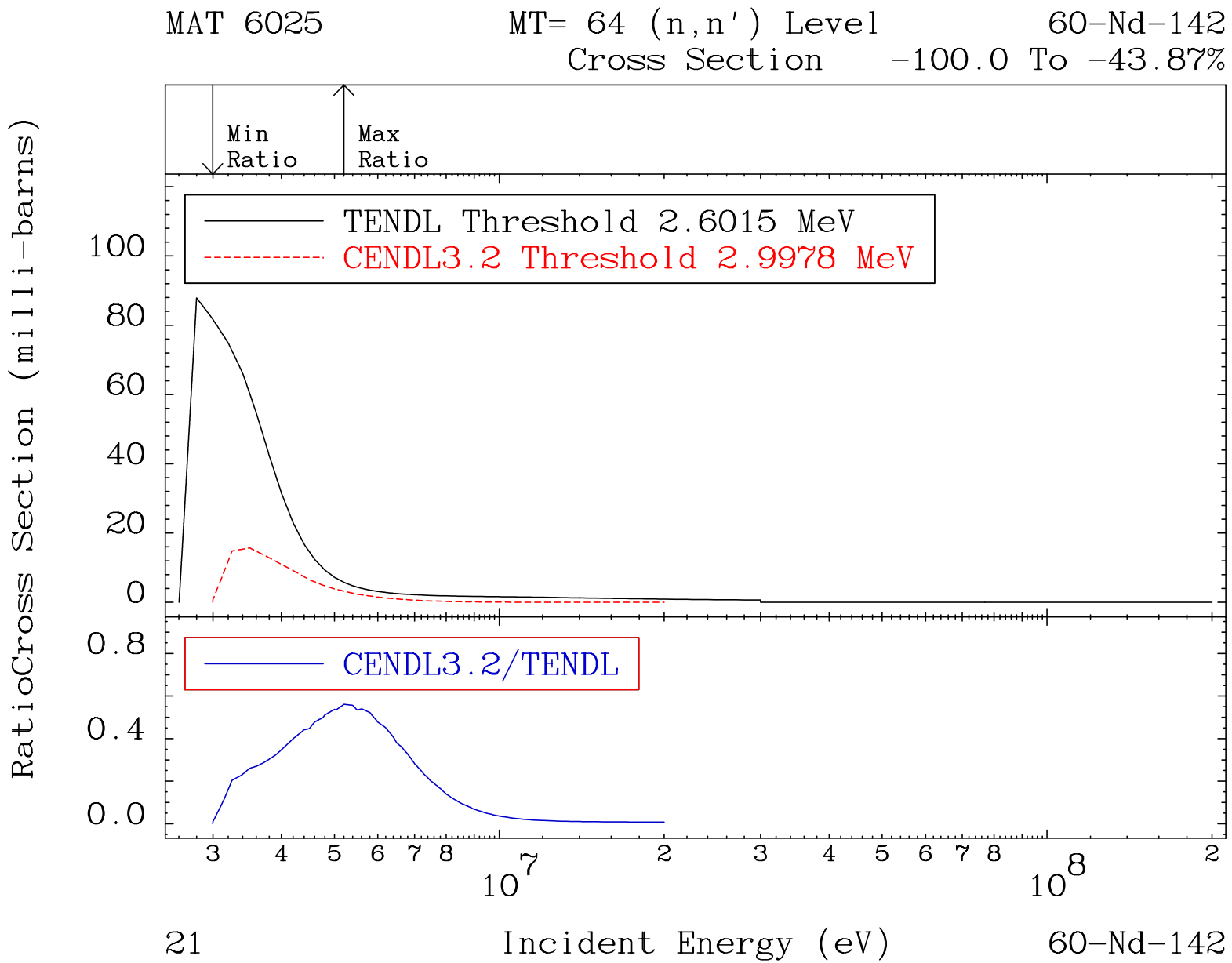

MAT 6025
MT= 59 (n,n') Level
Cross Section
60-Nd-142
-100.0 To 52.87 %
Max
Ratio
TENDL Threshold 2.4545 MeV
CENDL3.2 Threshold 2.5659 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
60-Nd-142

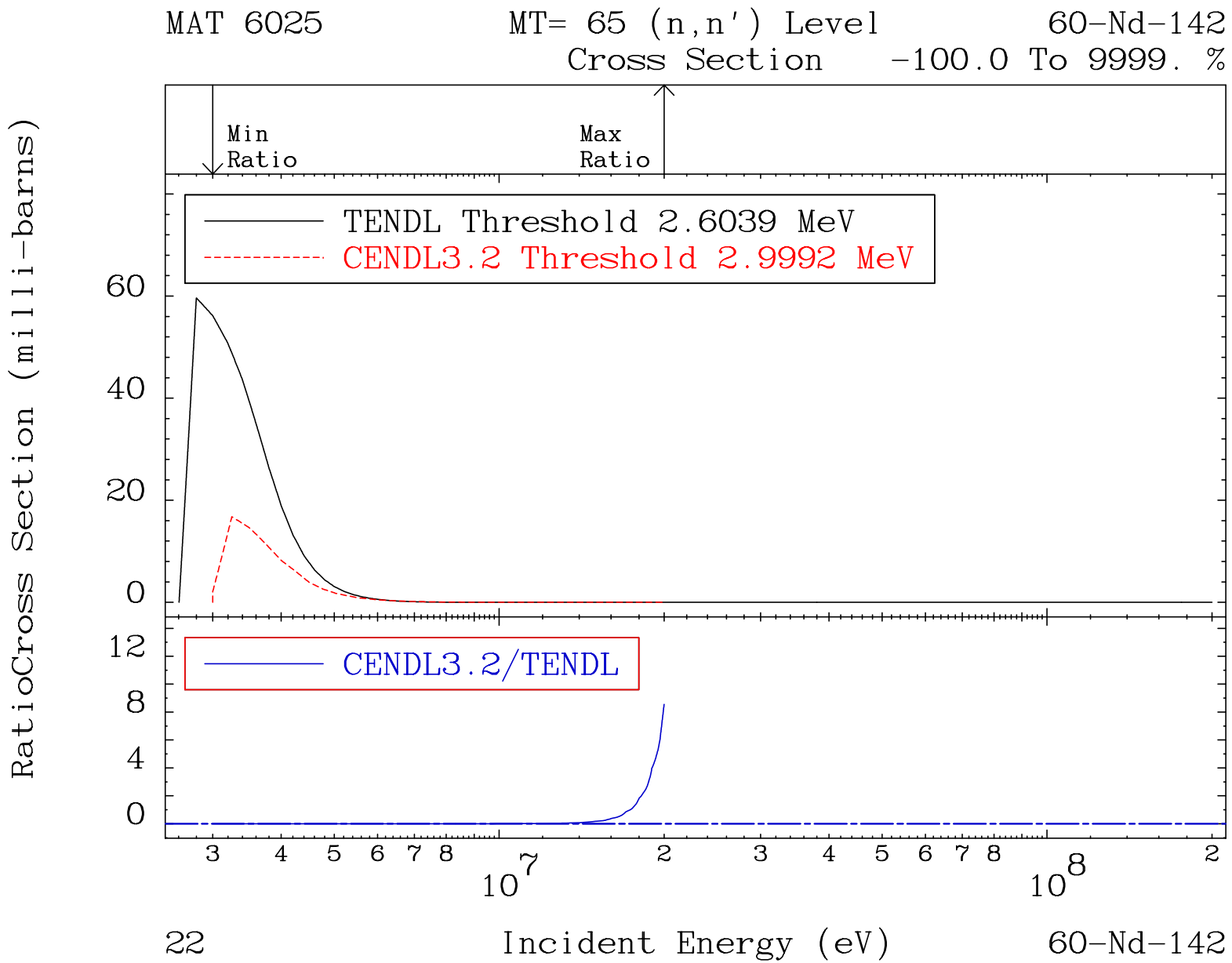

MAT 6025
MT= 60 (n,n') Level
60-Nd-142
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5318 MeV
CENDL3.2 Threshold 2.6017 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
20
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
60-Nd-142

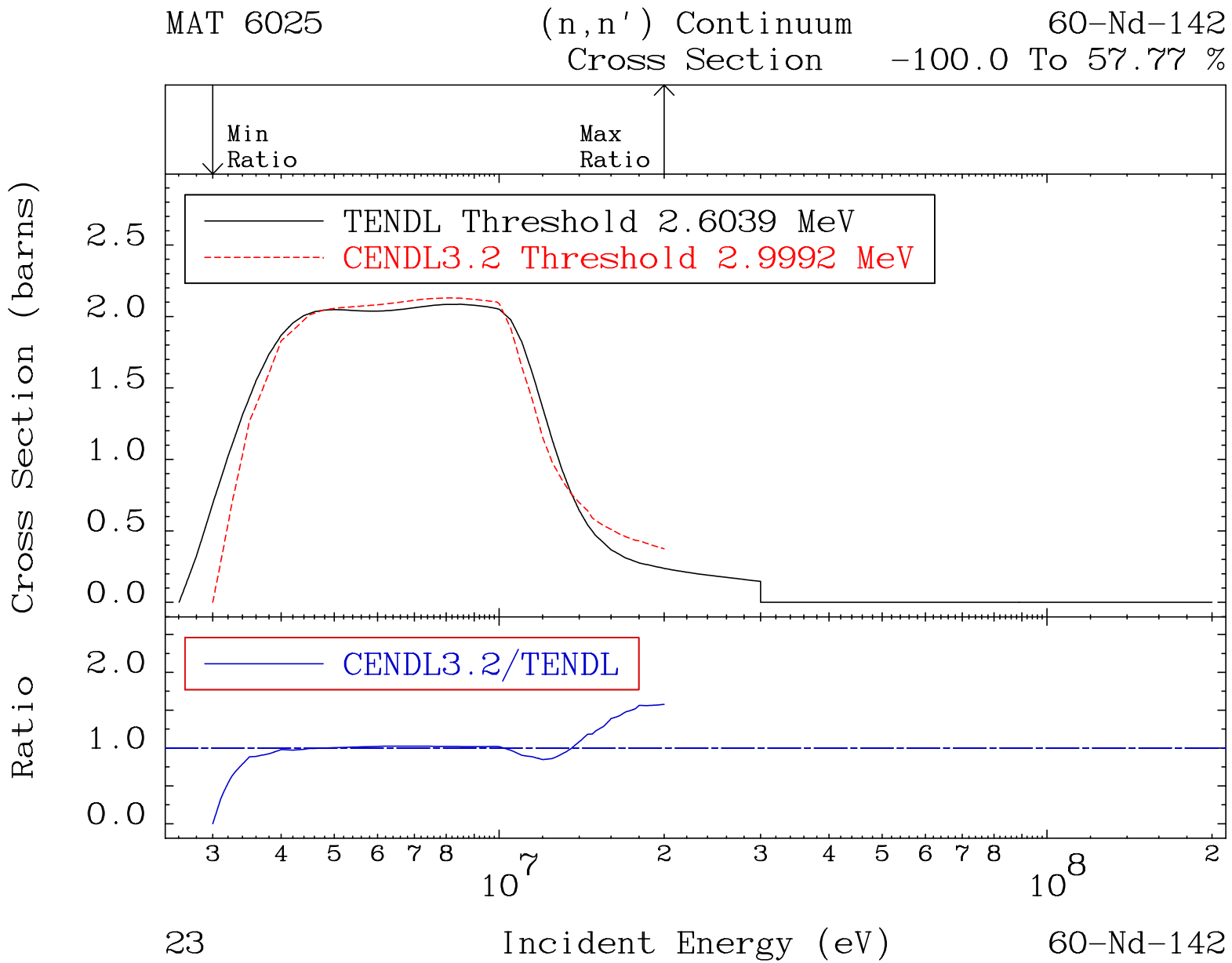

MAT 6025
MT= 61 (n,n') Level
60-Nd-142
Cross Section
-100.0 To 187.1 %
Min Ratio
Max Ratio
TENDL Threshold 2.5329 MeV
CENDL3.2 Threshold 2.8661 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
60-Nd-142

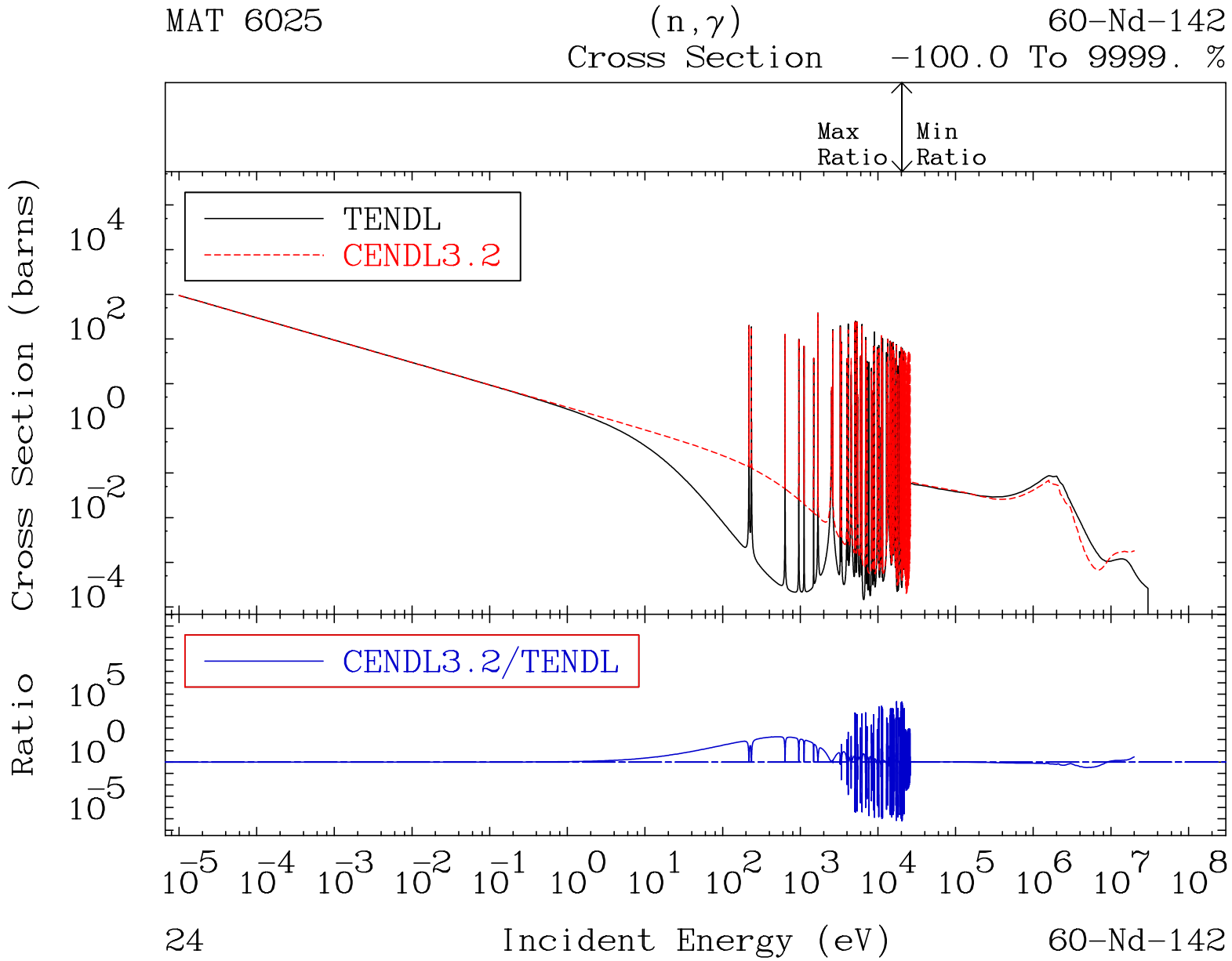

MAT 6025
MT= 62 (n,n') Level
60-Nd-142
Cross Section -100.0 To -22.75%
Min Ratio
Max Ratio
TENDL Threshold 2.5470 MeV
CENDL3.2 Threshold 2.9073 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
19
60-Nd-142

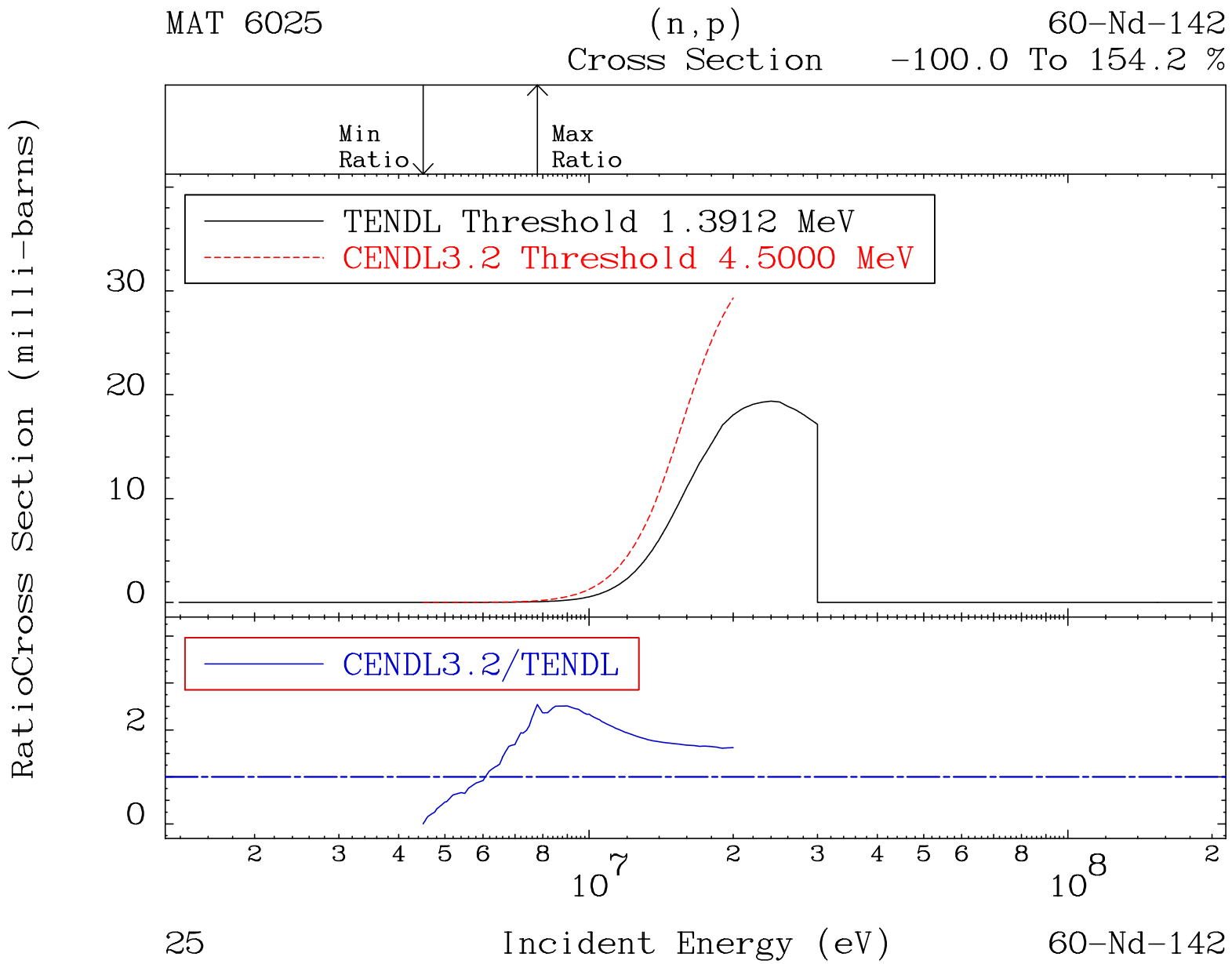

MAT 6025
MT= 63 (n,n') Level
60-Nd-142
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5654 MeV
CENDL3.2 Threshold 2.9807 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
20
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
60-Nd-142

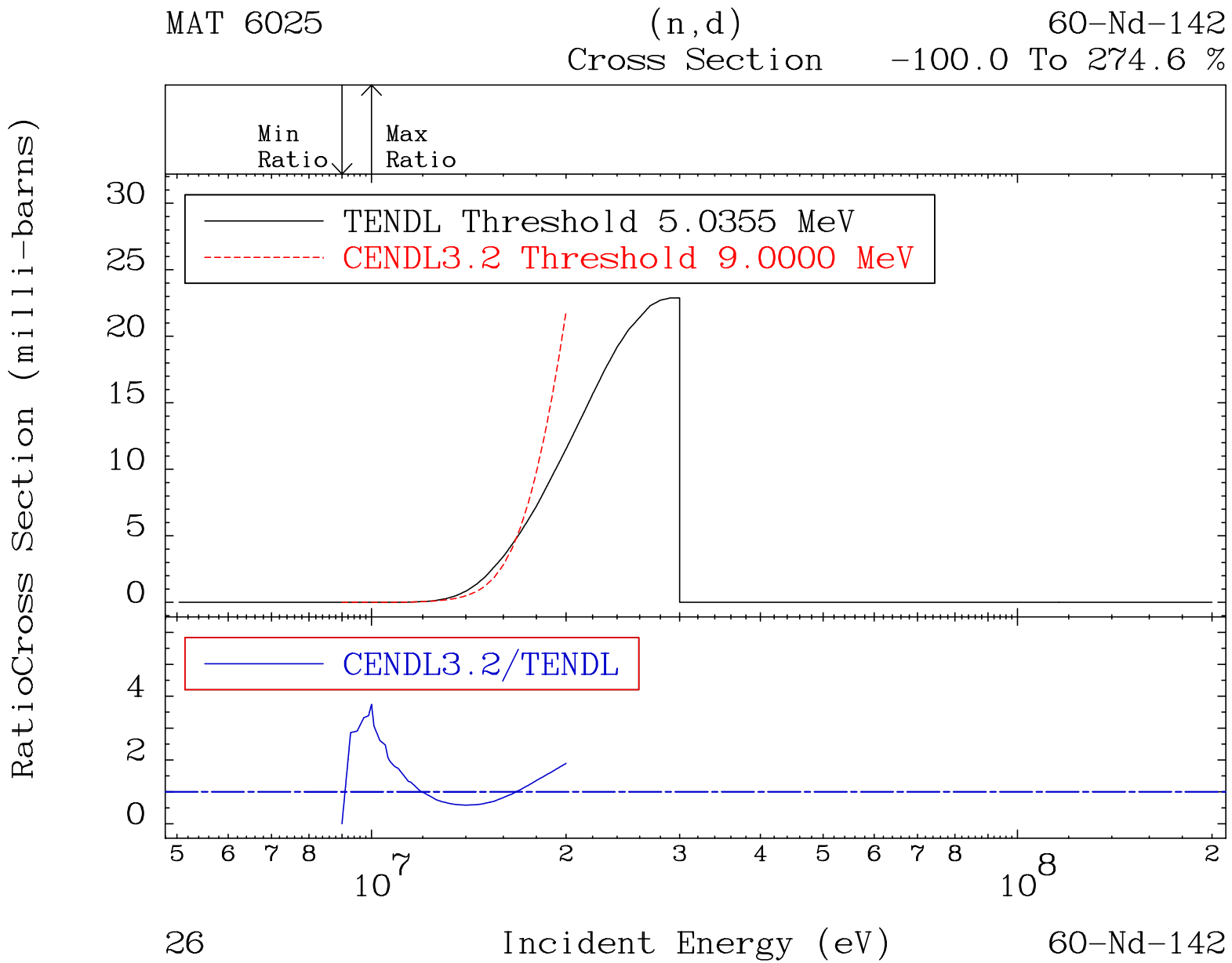

MAT 6025
MT= 64 (n,n') Level
60-Nd-142
Cross Section -100.0 To -43.87%
Min Ratio
Max Ratio
TENDL Threshold 2.6015 MeV
CENDL3.2 Threshold 2.9978 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
60-Nd-142

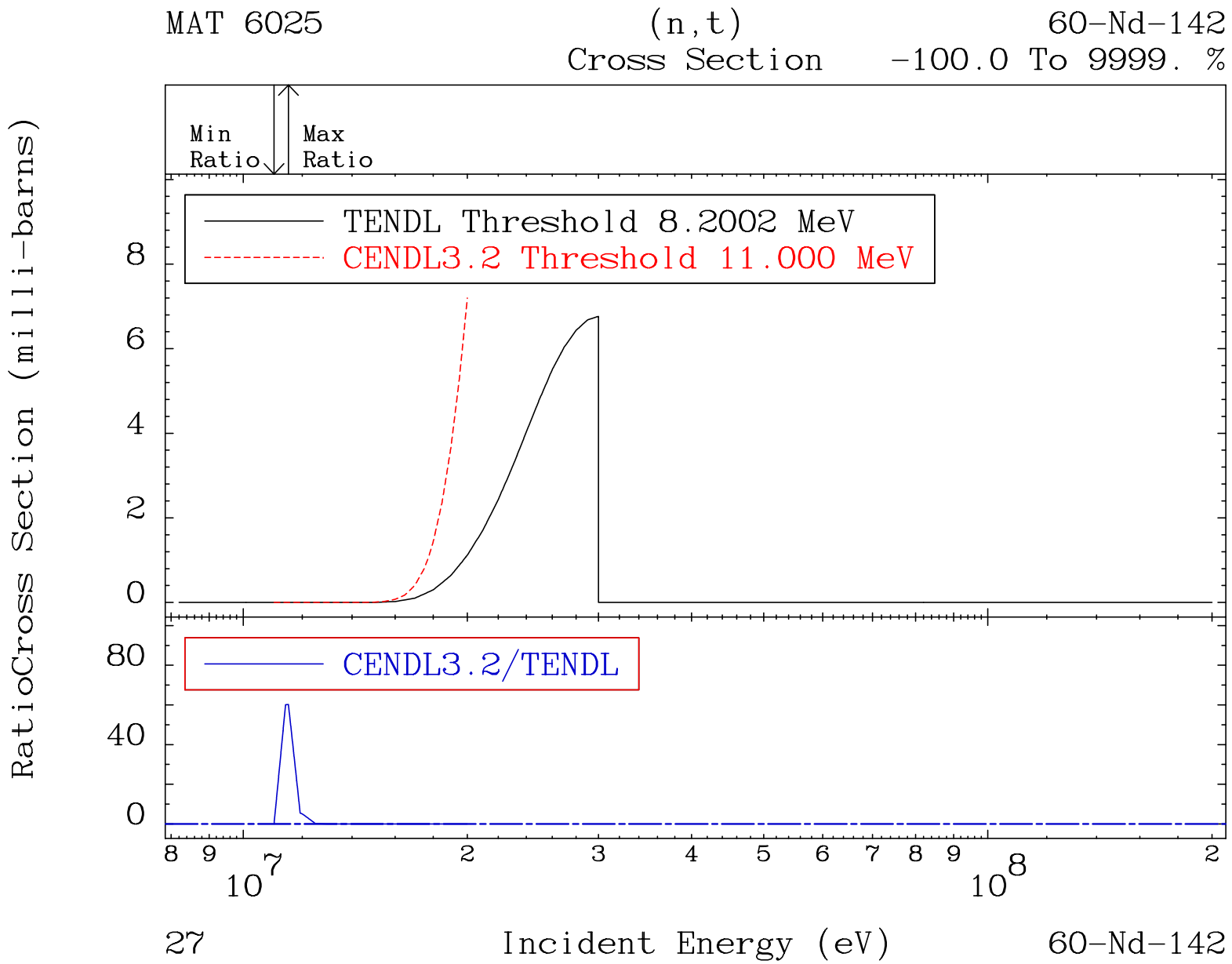

MAT 6025
MT= 65 (n,n') Level
60-Nd-142
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6039 MeV
CENDL3.2 Threshold 2.9992 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
40
20
0
12
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
60-Nd-142

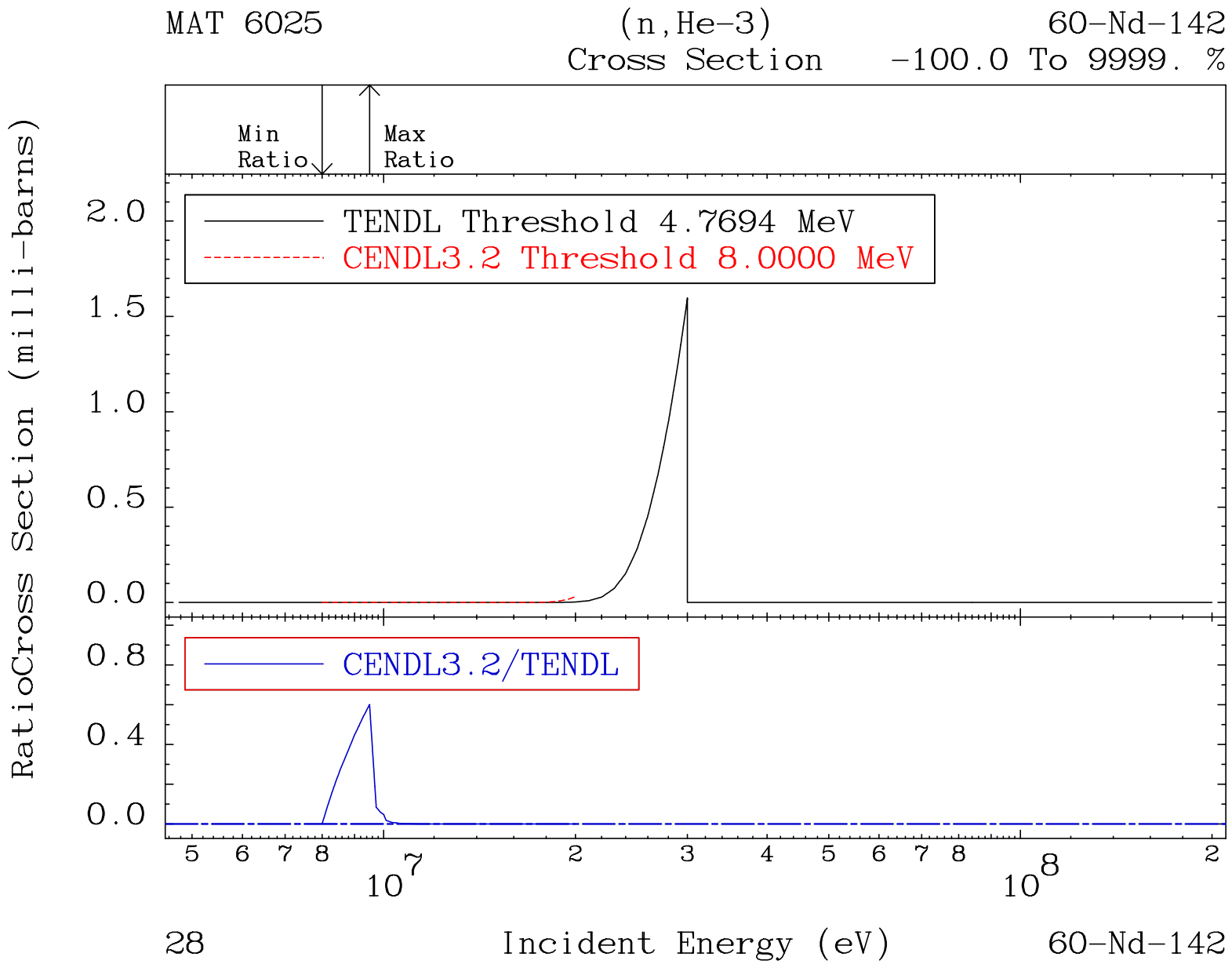

MAT 6025
(n,n') Continuum
Cross Section
60-Nd-142
-100.0 To 57.77 %
Min Ratio
Max Ratio
TENDL Threshold 2.6039 MeV
CENDL3.2 Threshold 2.9992 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
23
60-Nd-142

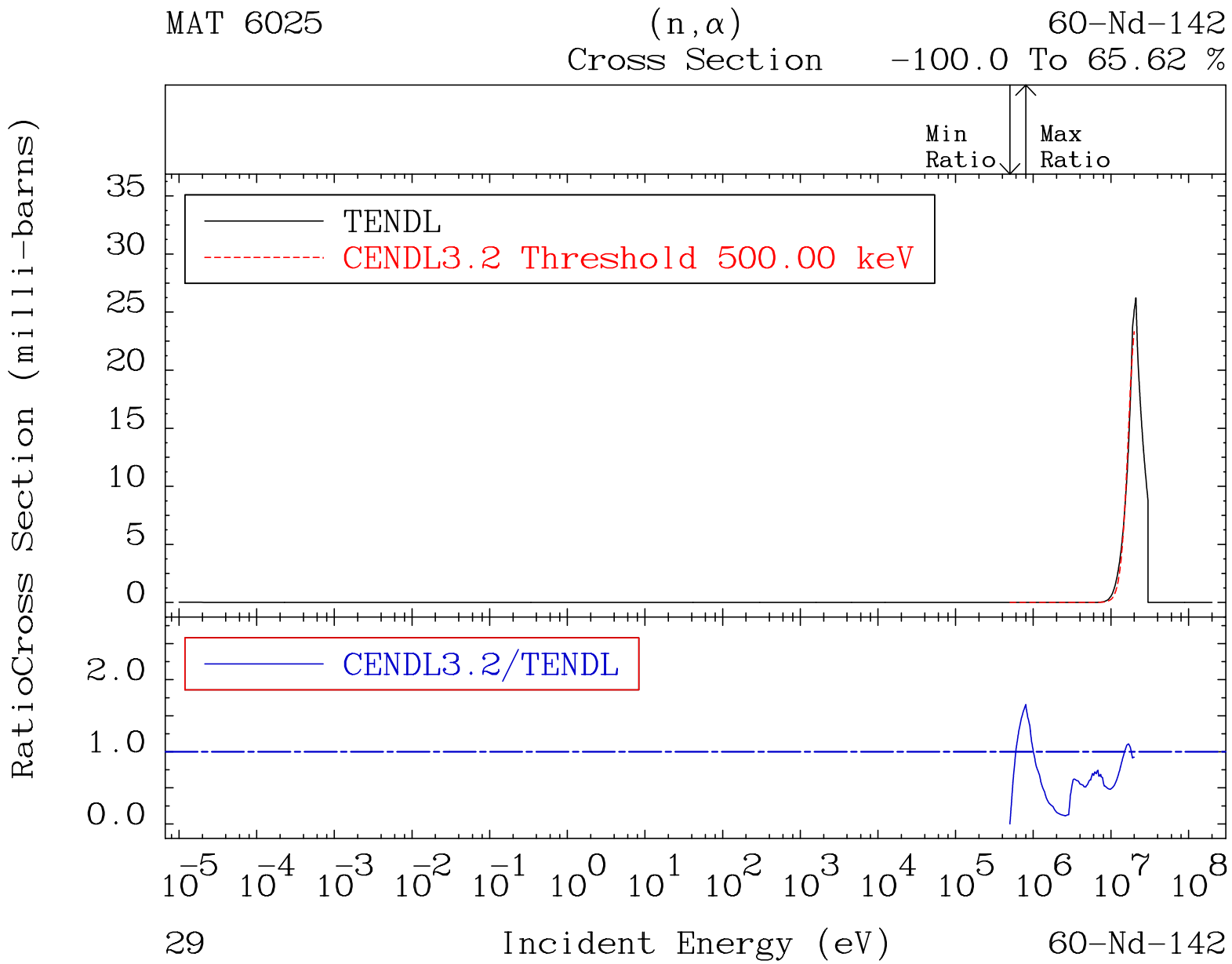

MAT 6025
(n,γ)
Cross Section
60-Nd-142
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
24
60-Nd-142

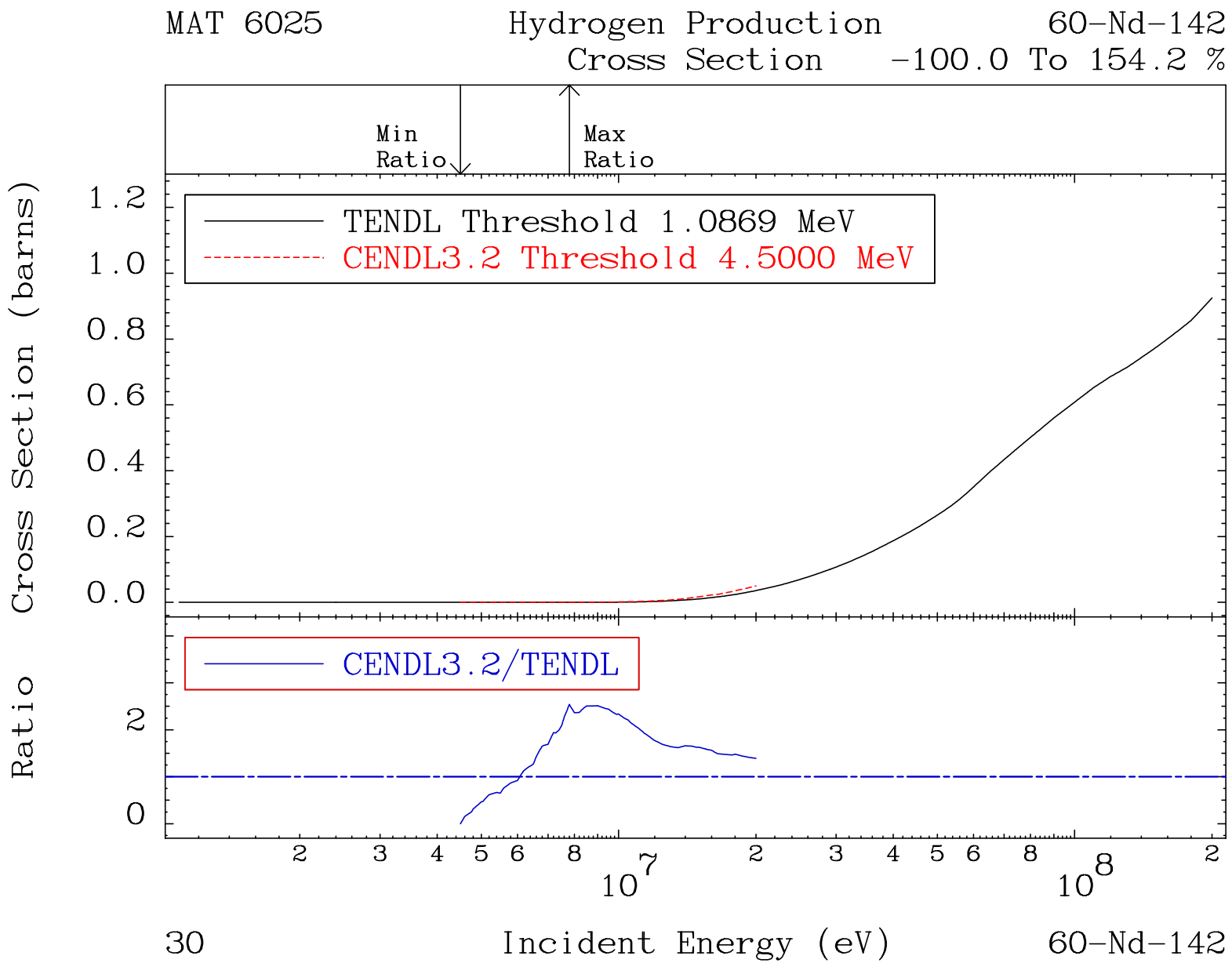

MAT 6025
(n,p)
60-Nd-142
Cross Section
-100.0 To 154.2 %
Min Ratio
Max Ratio
TENDL Threshold 1.3912 MeV
CENDL3.2 Threshold 4.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
20
10
0
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
60-Nd-142

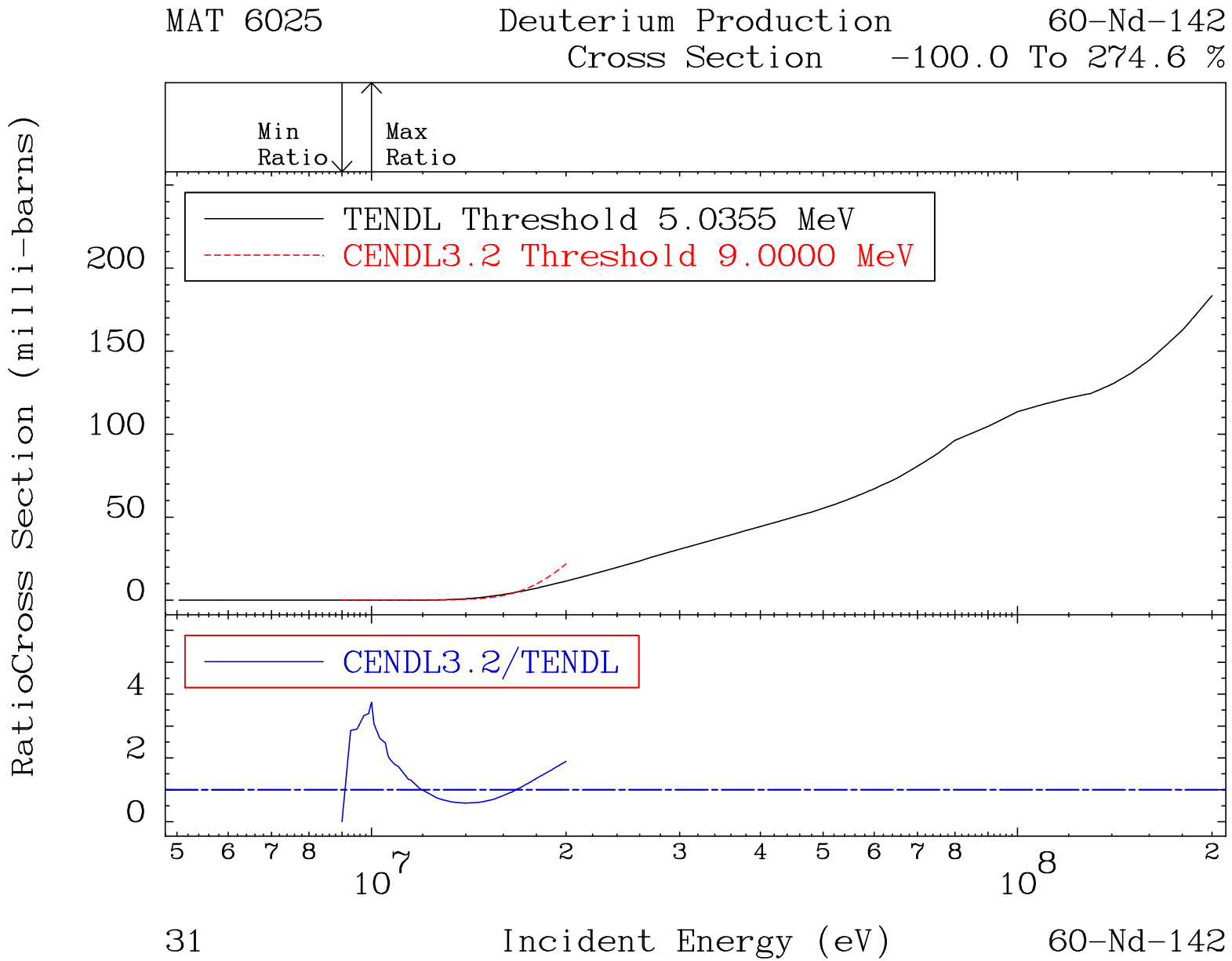

MAT 6025
(n,d)
60-Nd-142
Cross Section
-100.0 To 274.6 %
Min Ratio
Max Ratio
TENDL Threshold 5.0355 MeV
CENDL3.2 Threshold 9.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
4
2
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
60-Nd-142

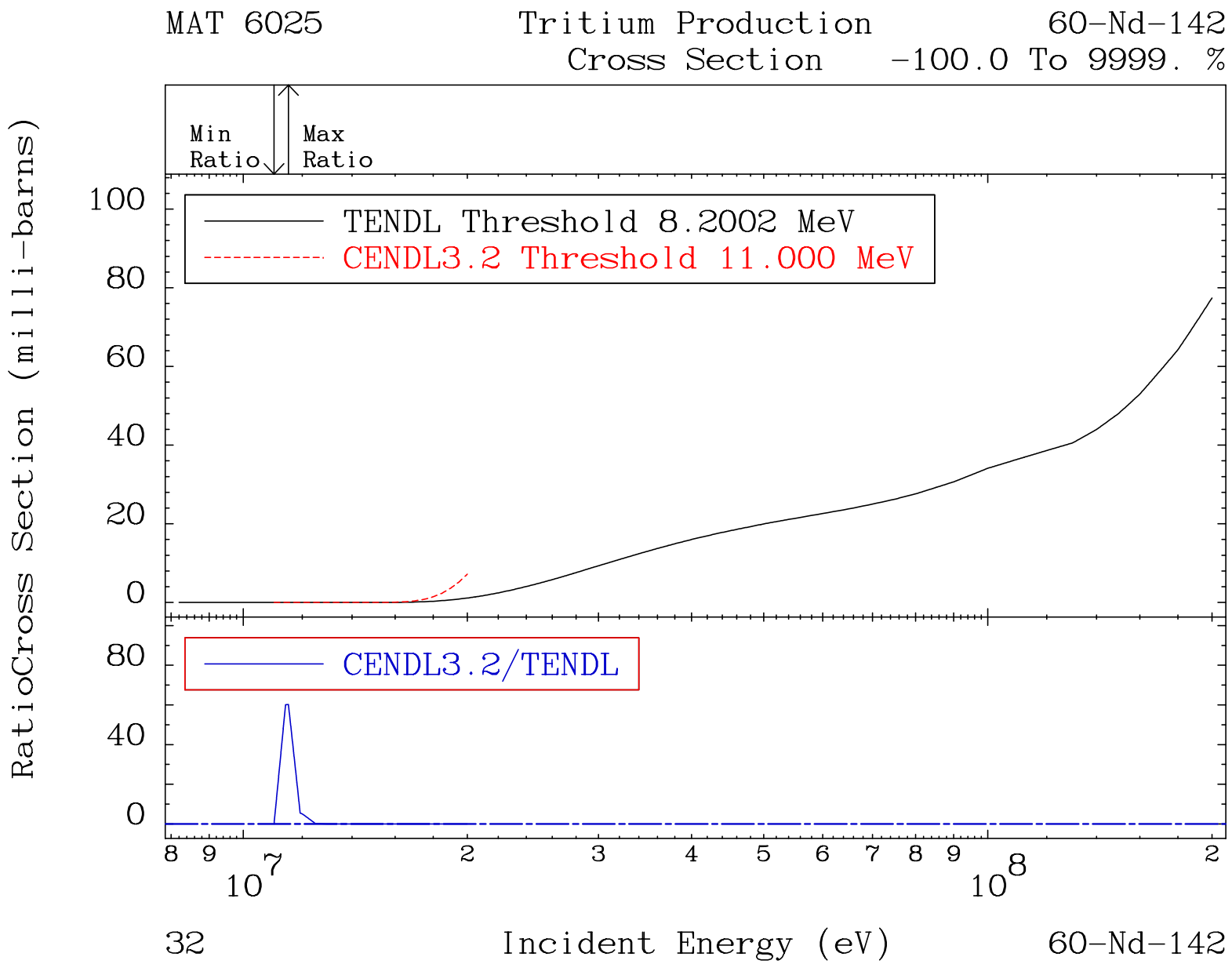

MAT 6025
(n,t)
Cross Section
60-Nd-142
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.2002 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
80
40
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
60-Nd-142

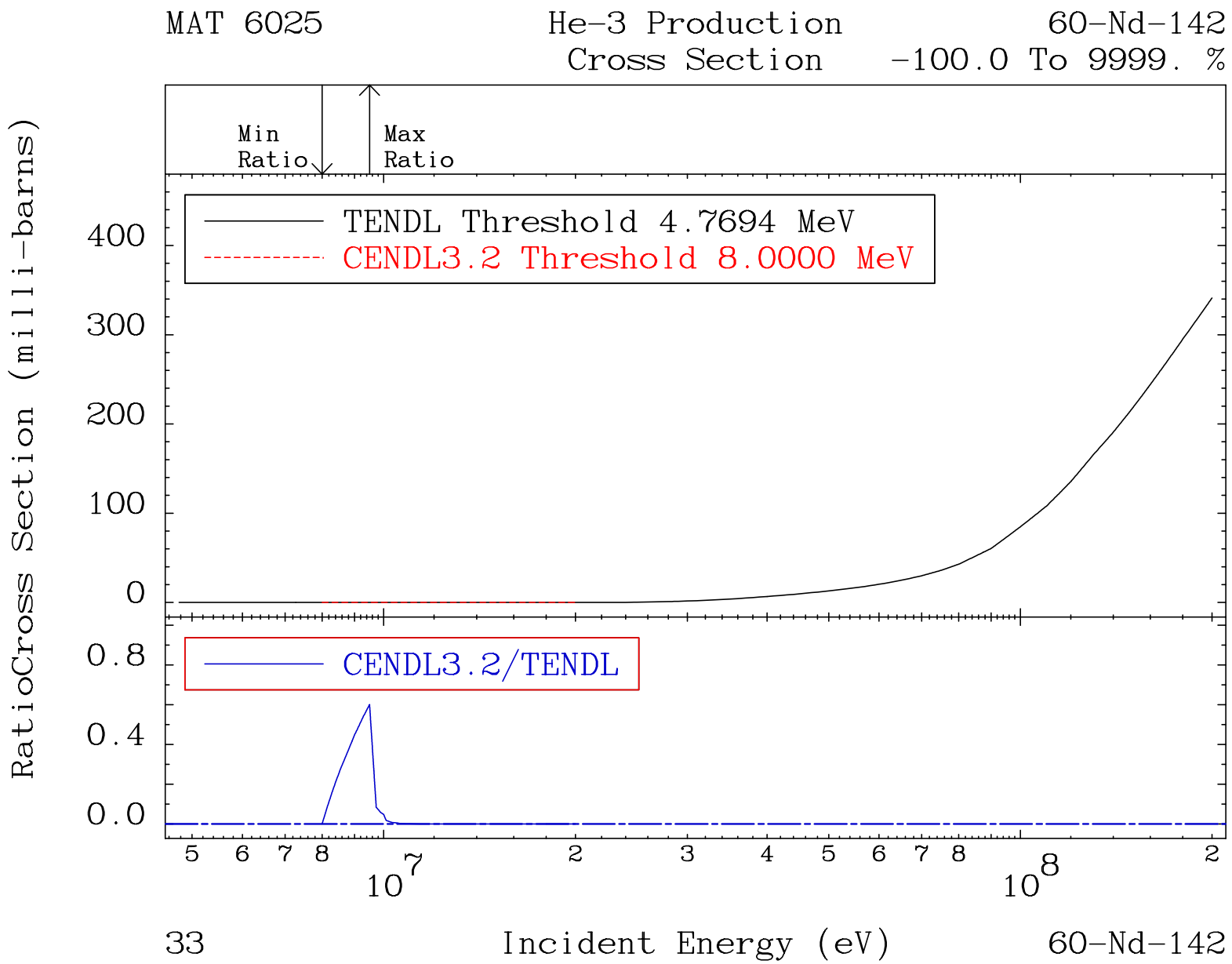

MAT 6025
(n,He-3)
60-Nd-142
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7694 MeV
CENDL3.2 Threshold 8.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
0.8
0.4
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
60-Nd-142

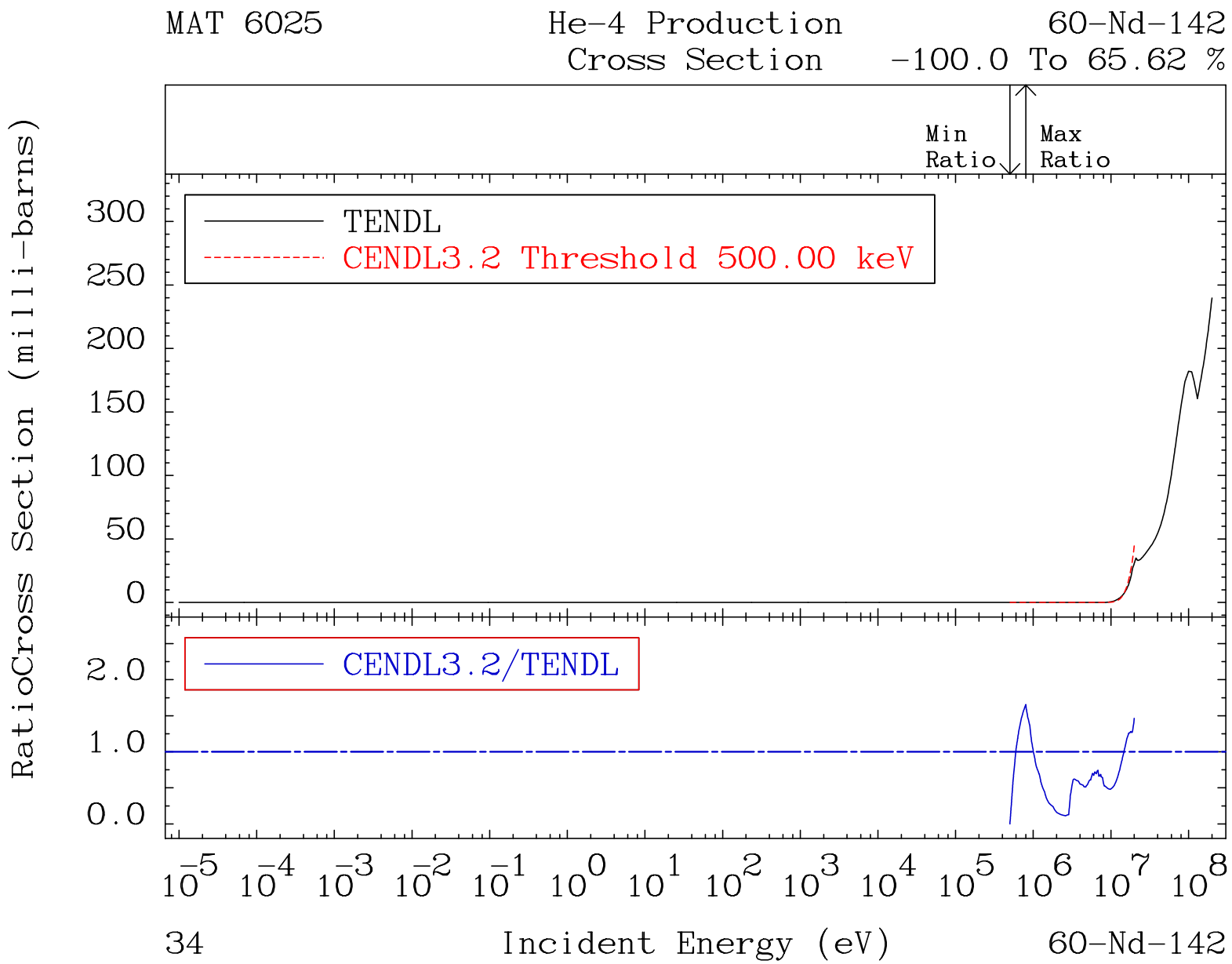

MAT 6025
(n,α)
Cross Section
60-Nd-142
-100.0 To 65.62 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 500.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
60-Nd-142

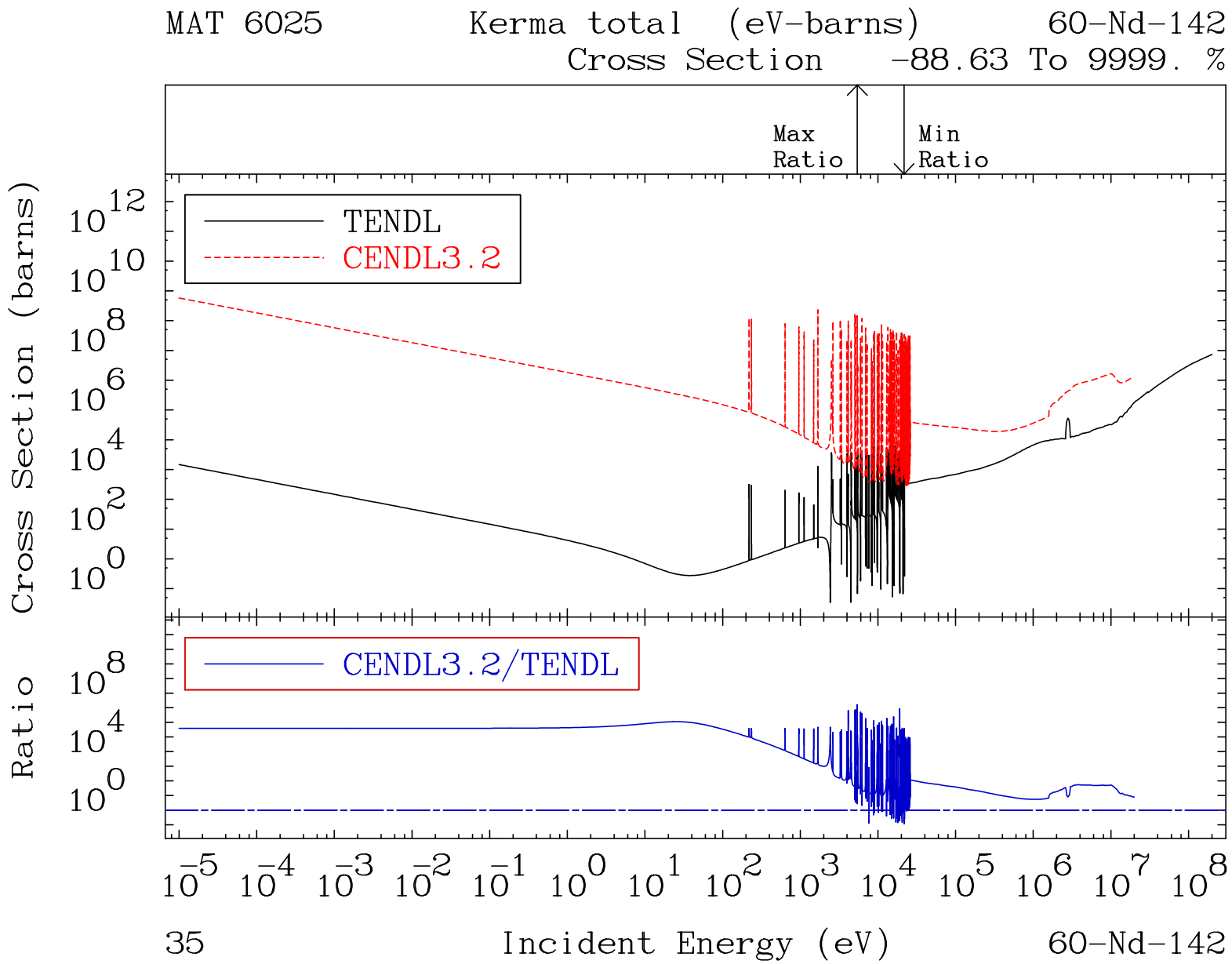

MAT 6025
Hydrogen Production
60-Nd-142
Cross Section
-100.0 To 154.2 %
Min Ratio
Max Ratio
TENDL Threshold 1.0869 MeV
CENDL3.2 Threshold 4.5000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
30
Incident Energy (eV)
60-Nd-142

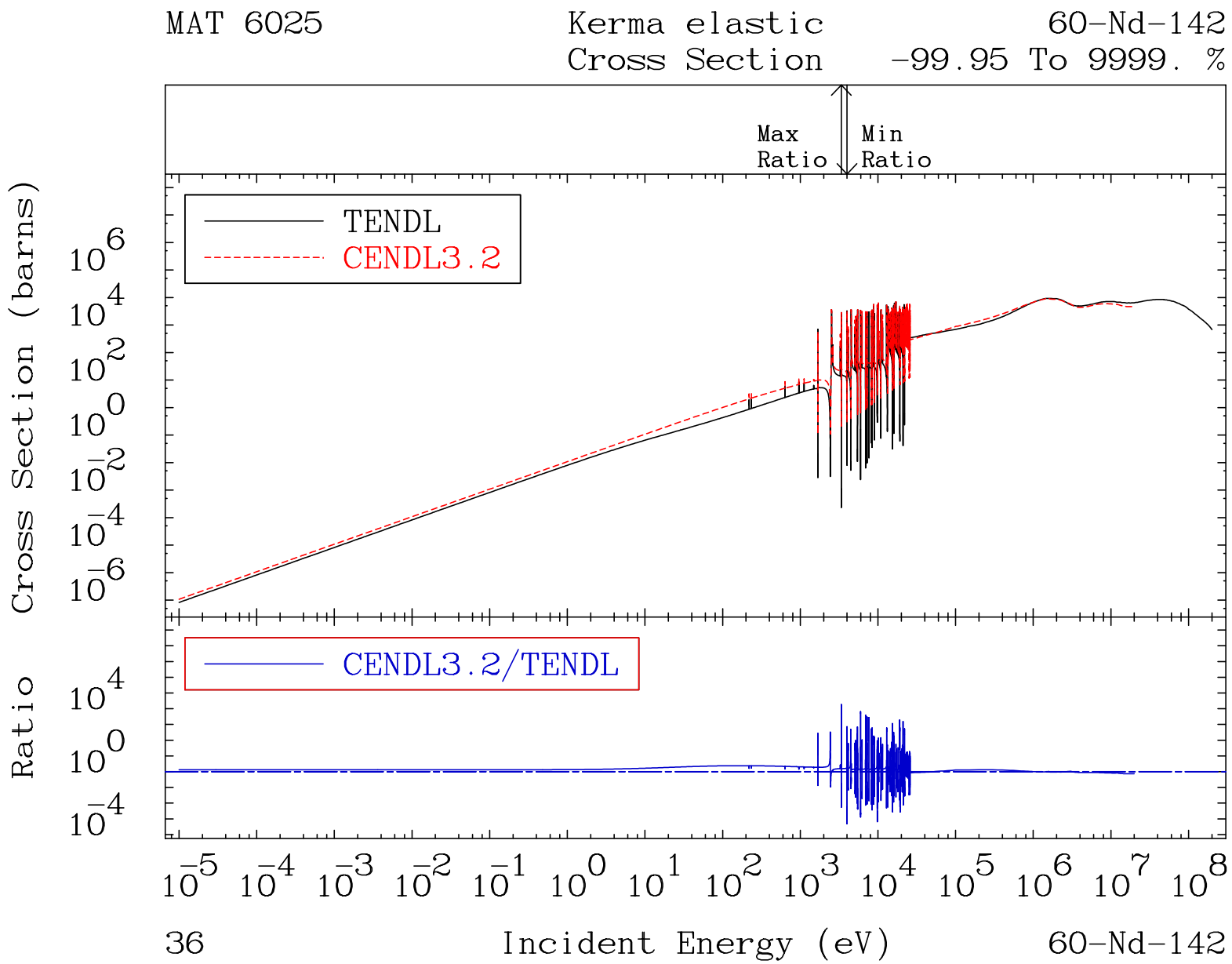

MAT 6025
Deuterium Production
60-Nd-142
Cross Section
-100.0 To 274.6 %
Min Ratio
Max Ratio
TENDL Threshold 5.0355 MeV
CENDL3.2 Threshold 9.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
60-Nd-142

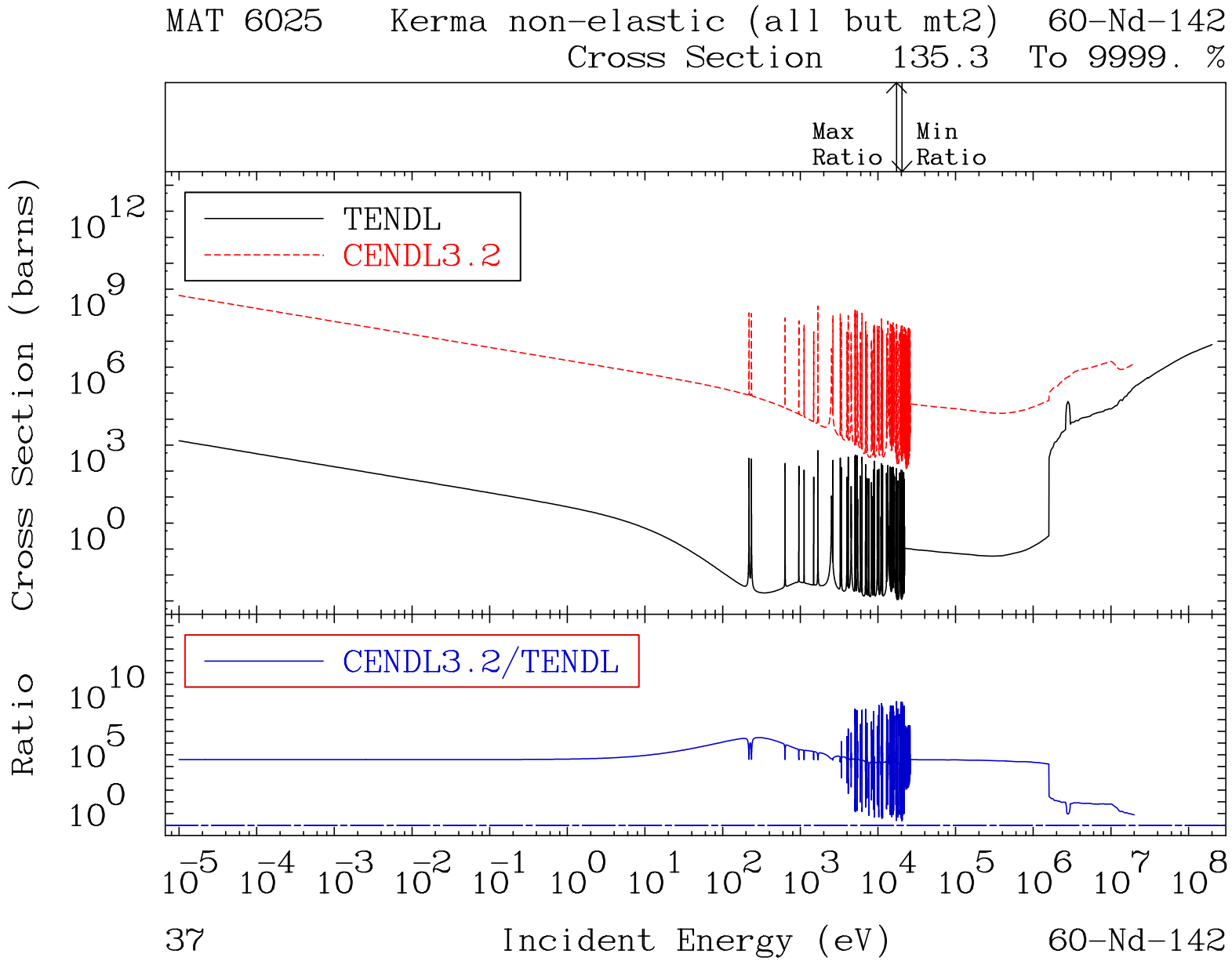

MAT 6025
Tritium Production
60-Nd-142
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.2002 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
80
40
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
60-Nd-142

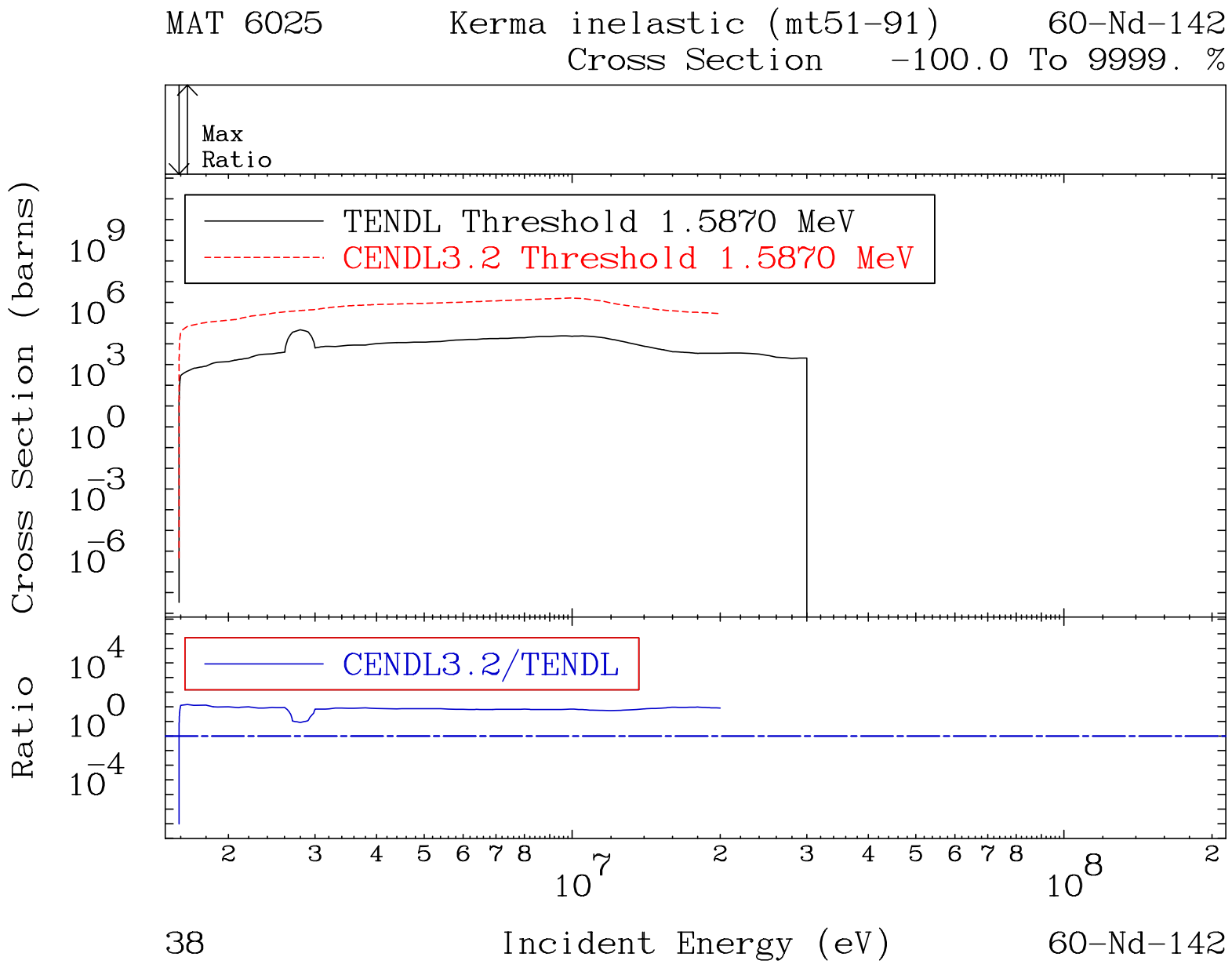

MAT 6025
He-3 Production
Cross Section
60-Nd-142
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7694 MeV
CENDL3.2 Threshold 8.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
0.8
0.4
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
60-Nd-142

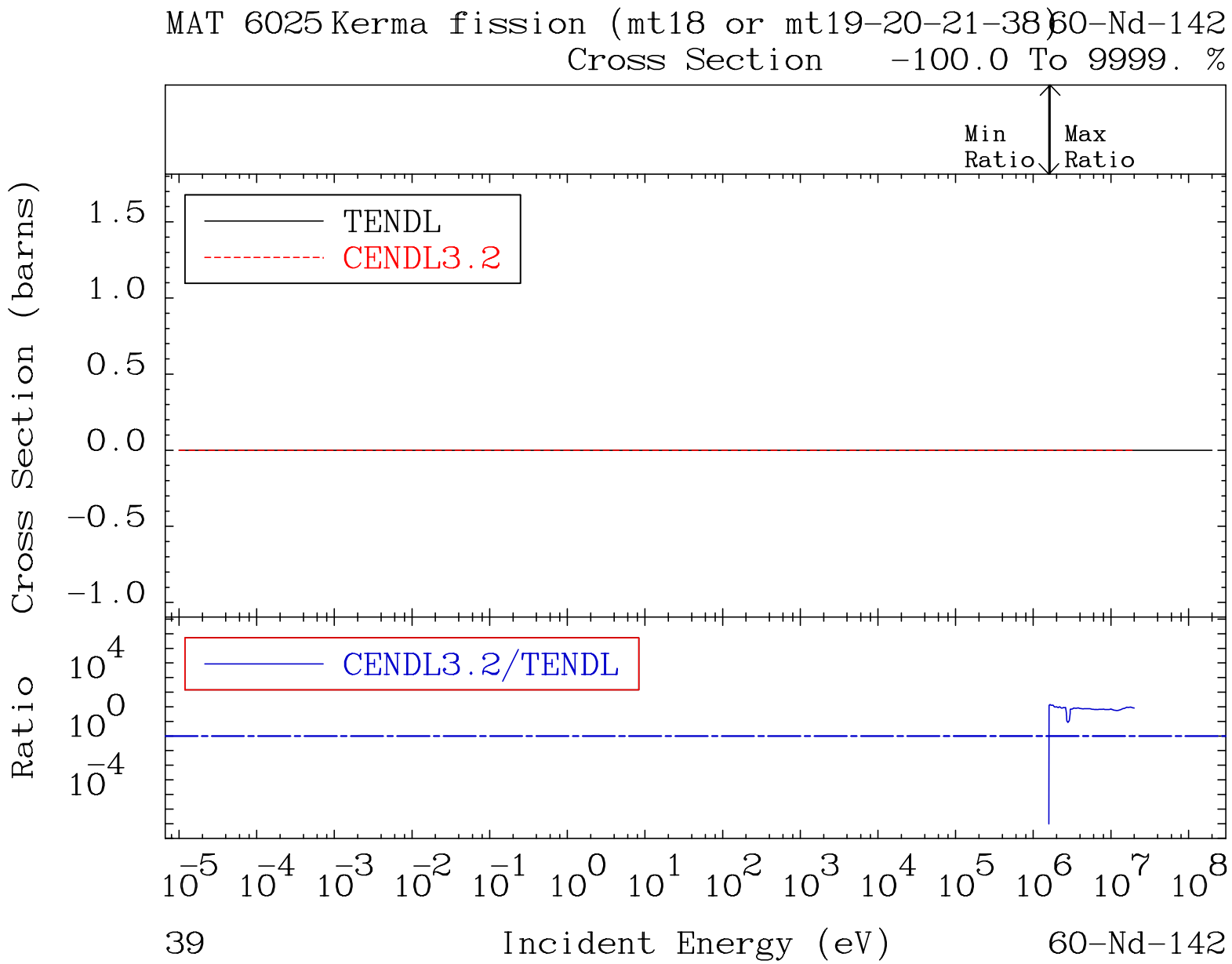

MAT 6025
He-4 Production
Cross Section
60-Nd-142
-100.0 To 65.62 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 500.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
60-Nd-142

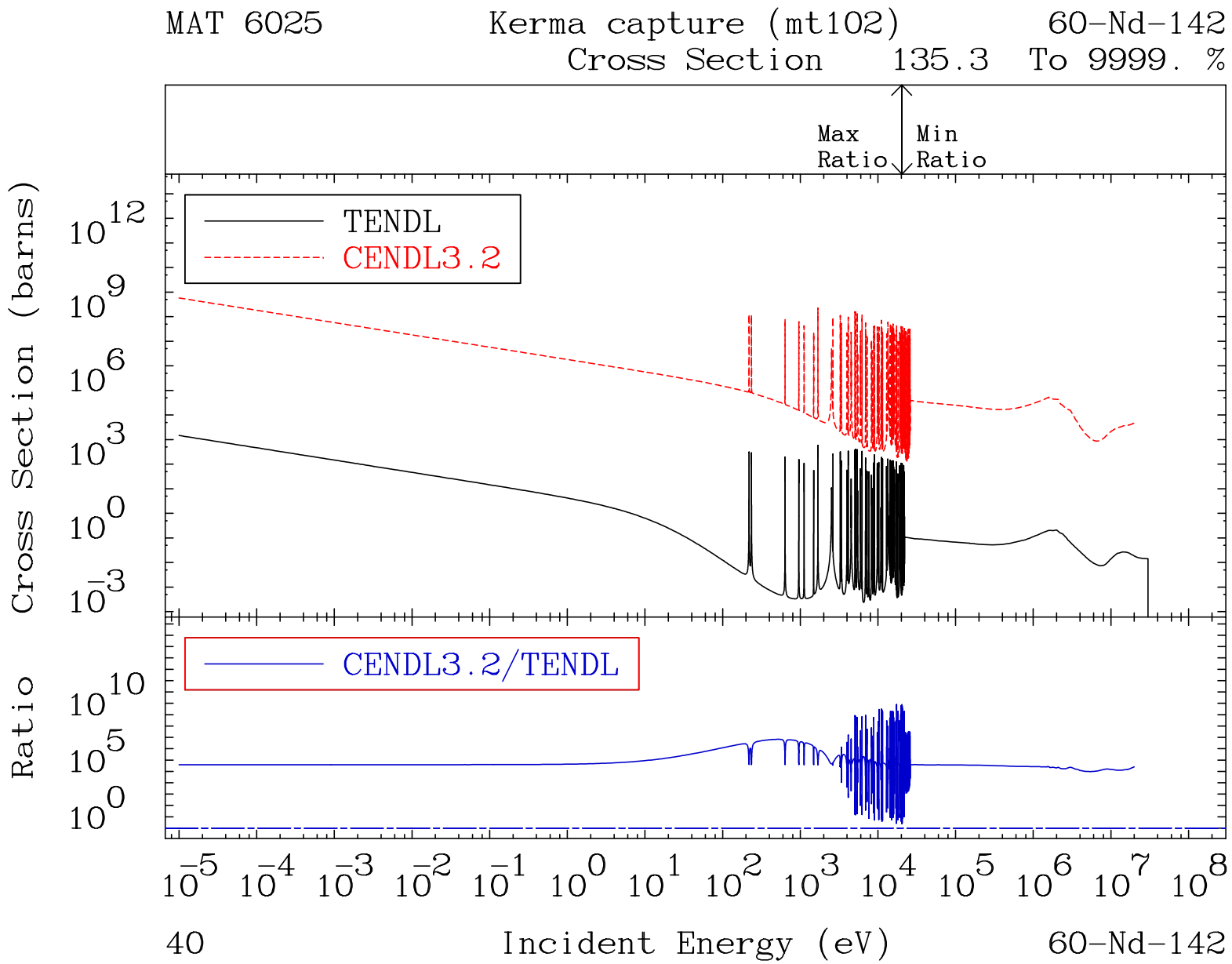

MAT 6025
Kerma total (eV-barns)
60-Nd-142
Cross Section -88.63 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
35
60-Nd-142

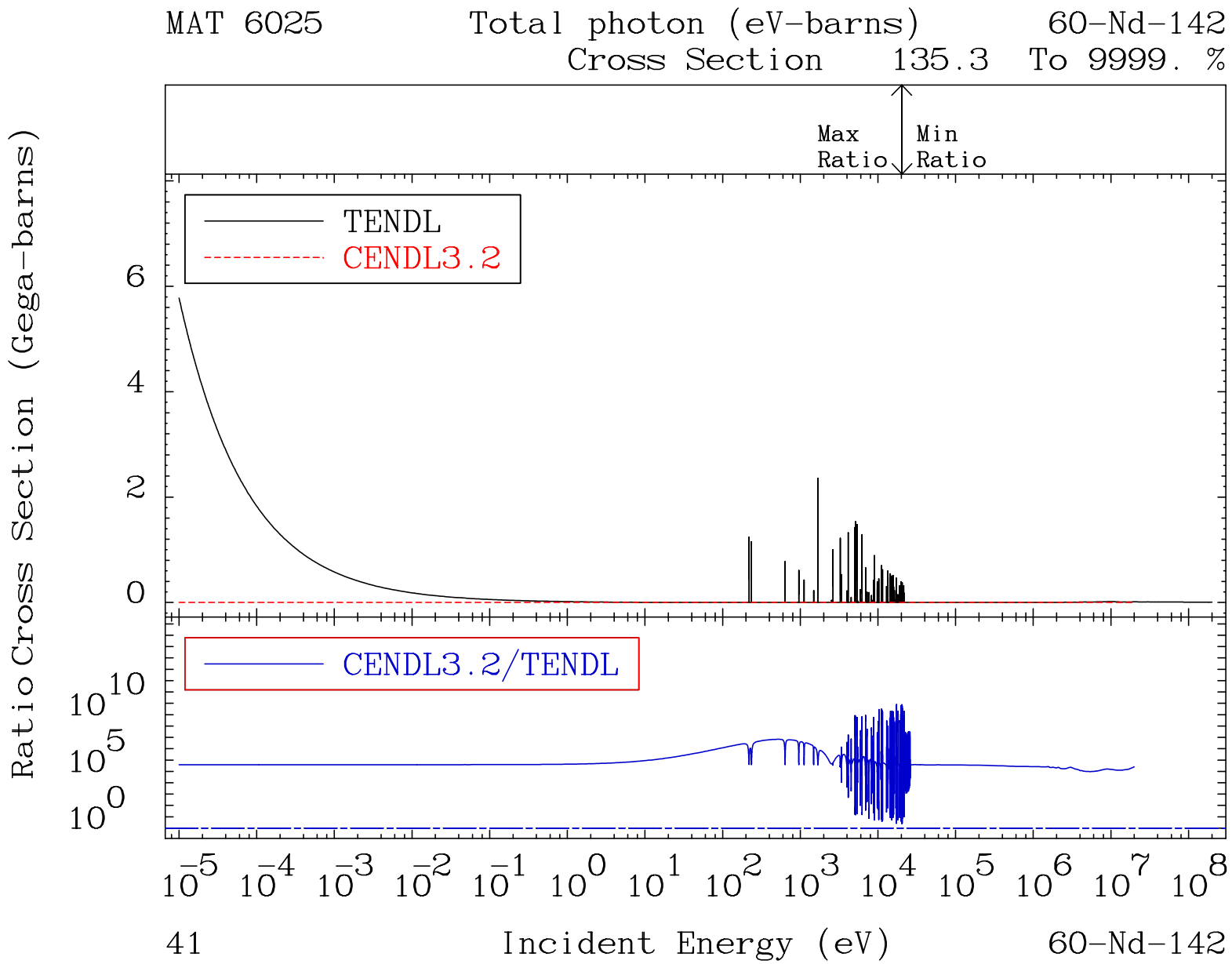

MAT 6025
Kerma elastic
Cross Section
60-Nd-142
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
60-Nd-142

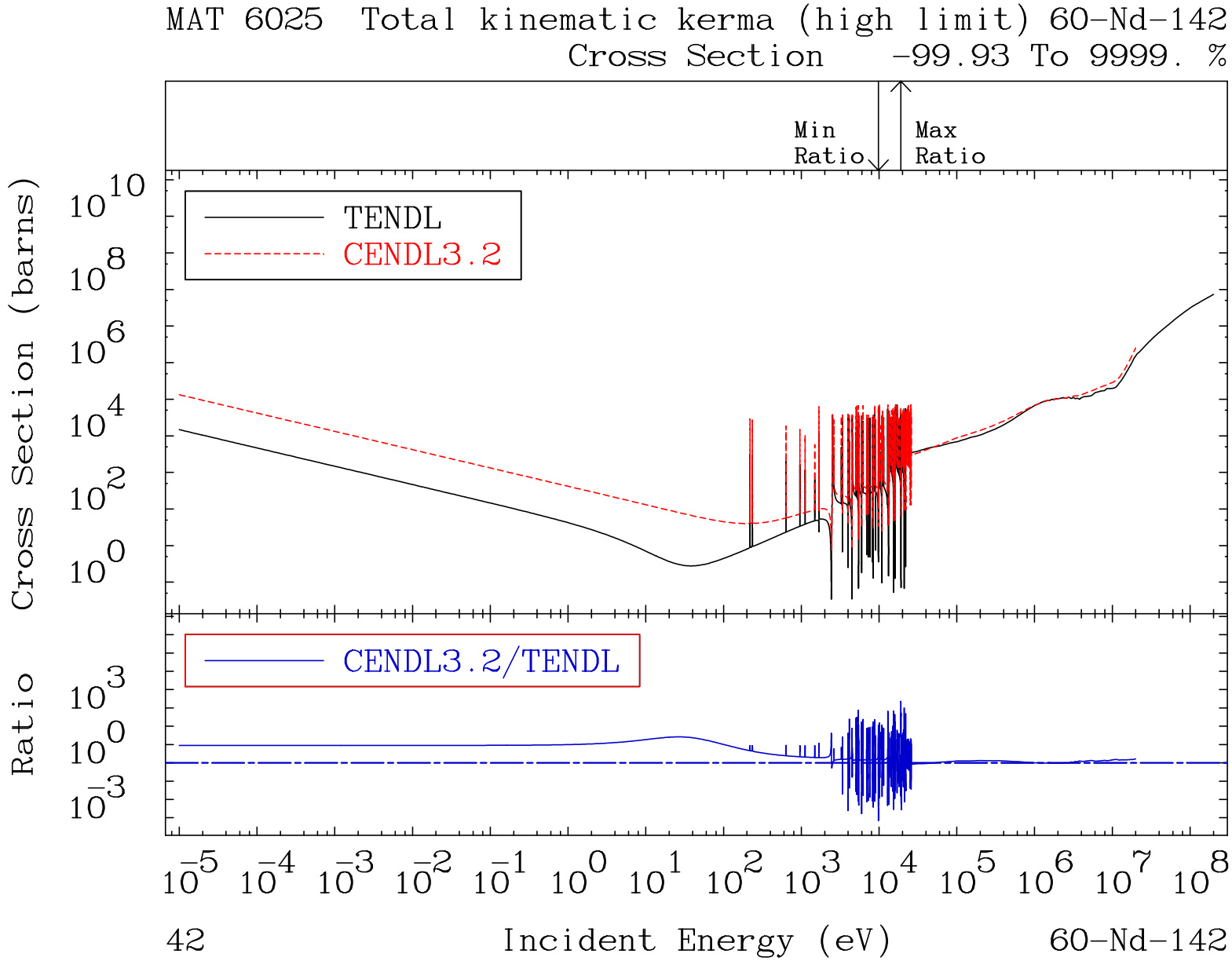

MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142
Cross Section 135.3 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
60-Nd-142

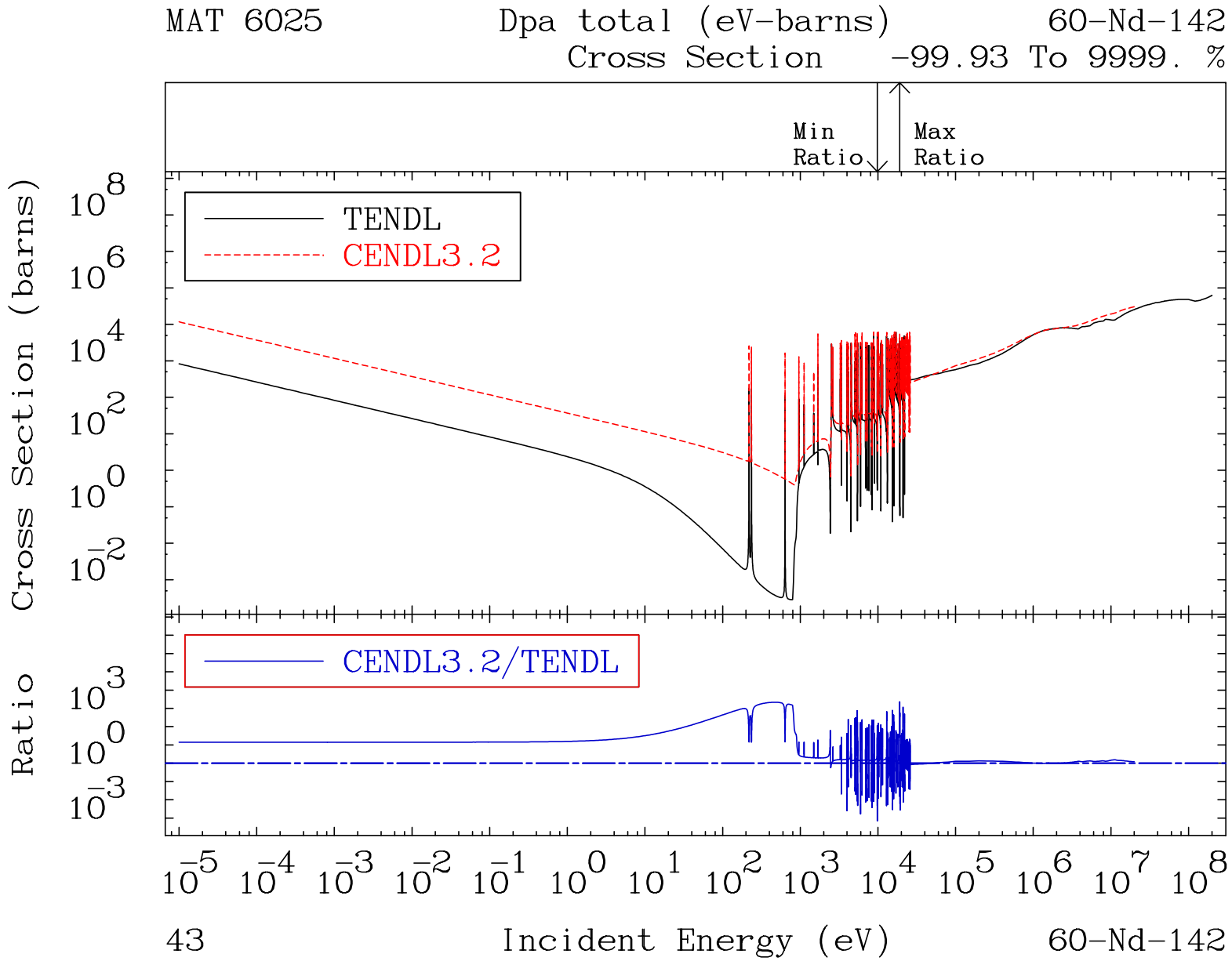

MAT 6025
Kerma inelastic (mt51-91)
60-Nd-142
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 1.5870 MeV
CENDL3.2 Threshold 1.5870 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
60-Nd-142

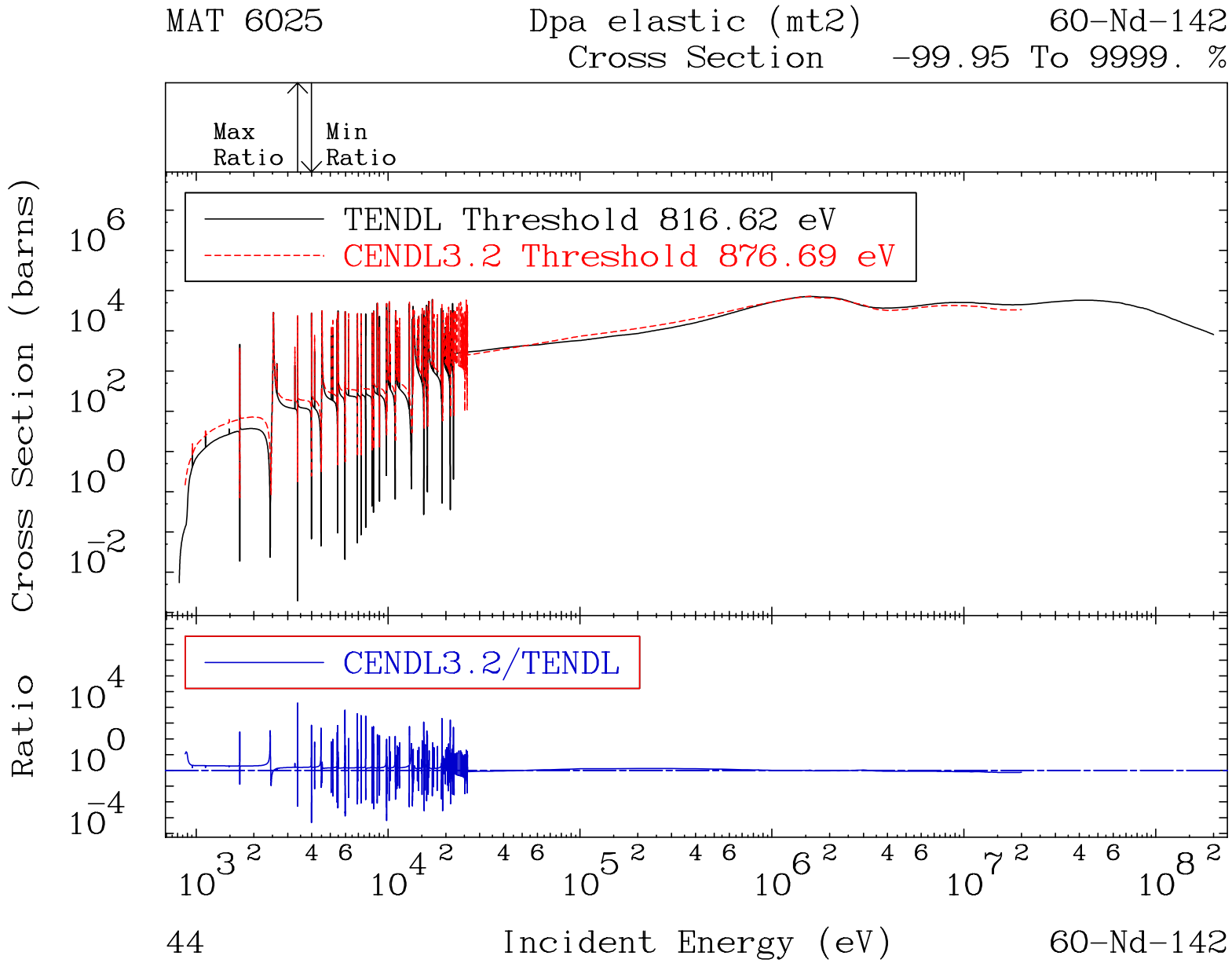

MAT 6025 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-142
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
39
Incident Energy (eV)
60-Nd-142

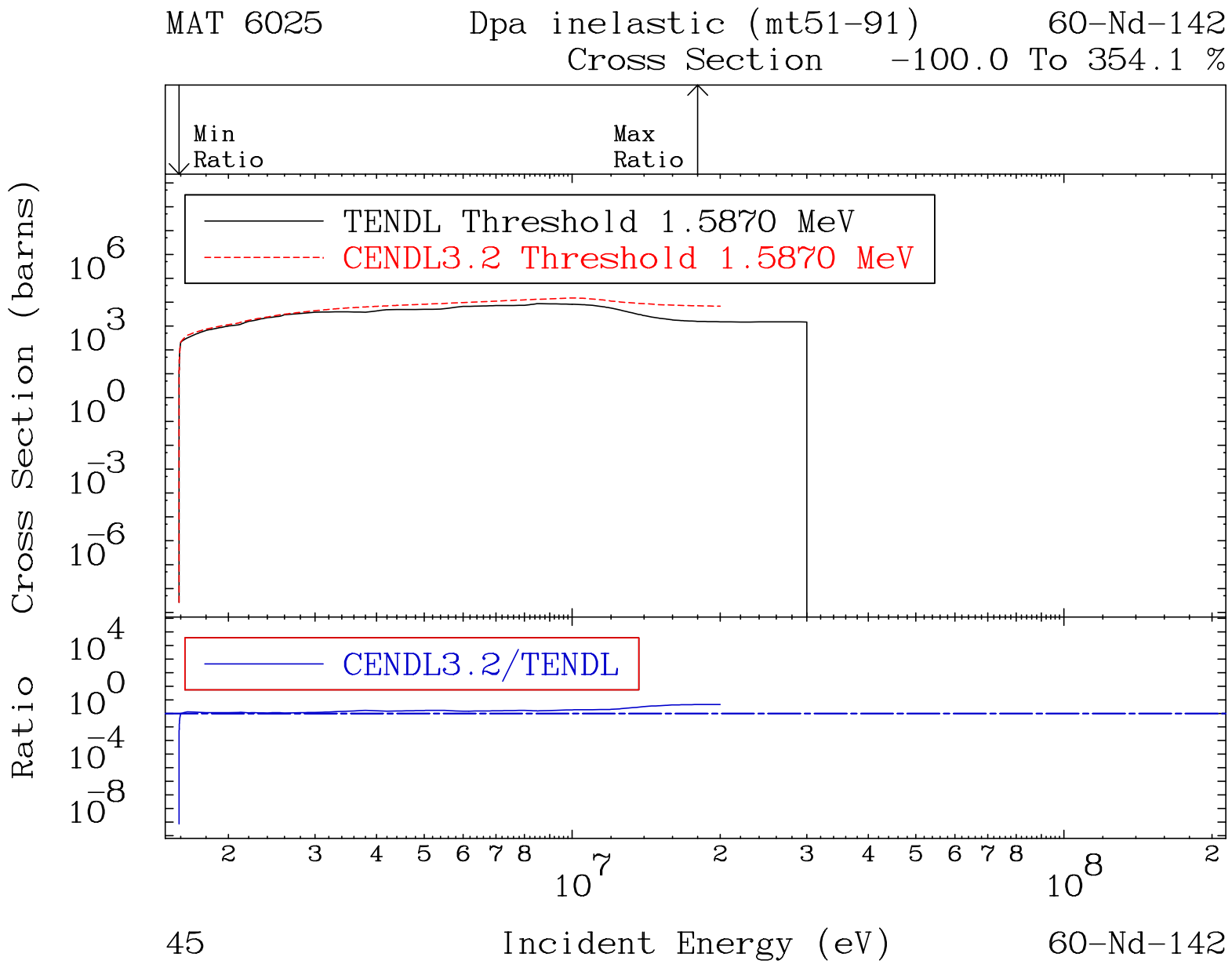

MAT 6025
Kerma capture (mt102)
60-Nd-142
Cross Section 135.3 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
60-Nd-142

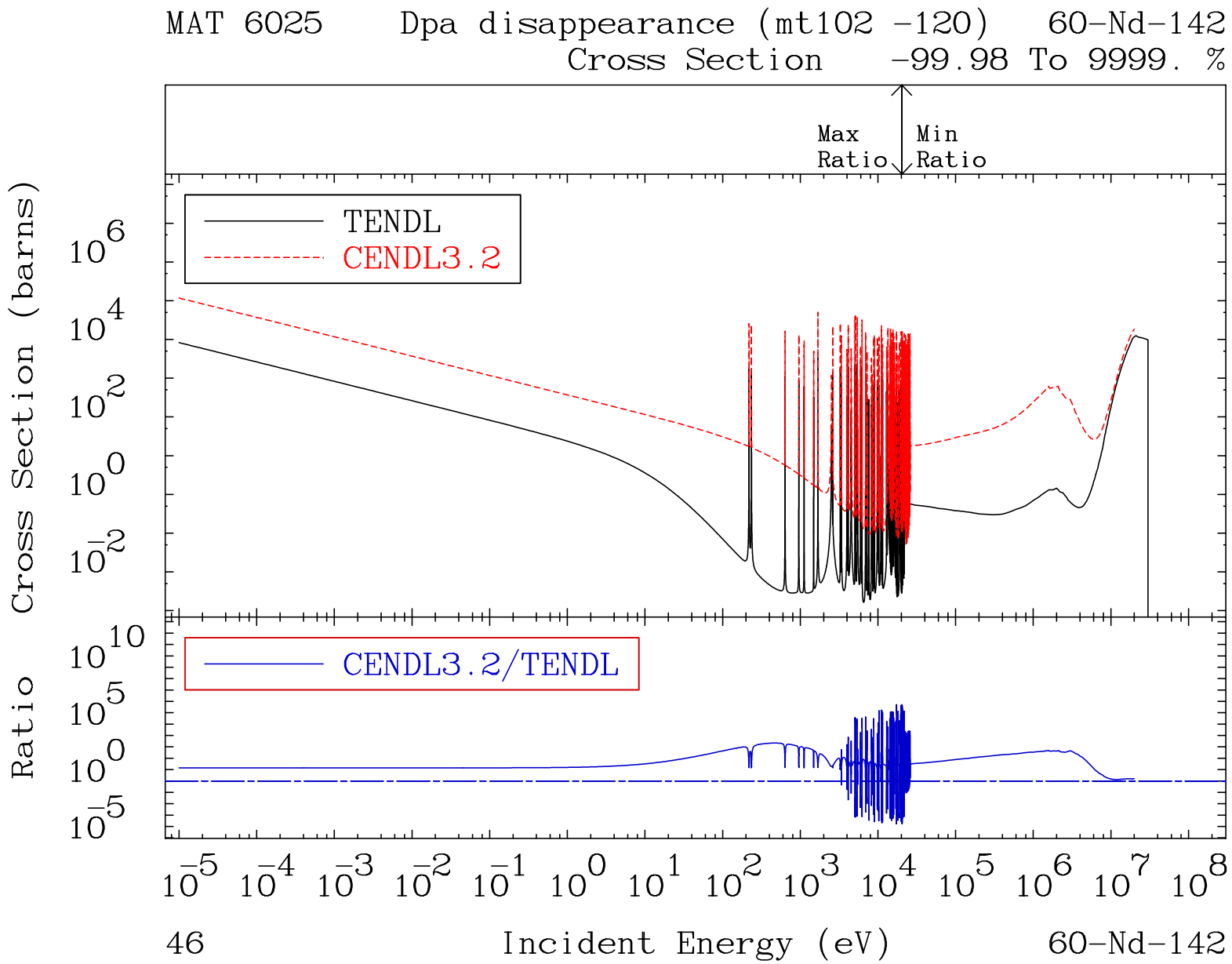

MAT 6025
Total photon (eV-barns)
60-Nd-142
Cross Section 135.3 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Gega-barns)
Incident Energy (eV)
41
60-Nd-142

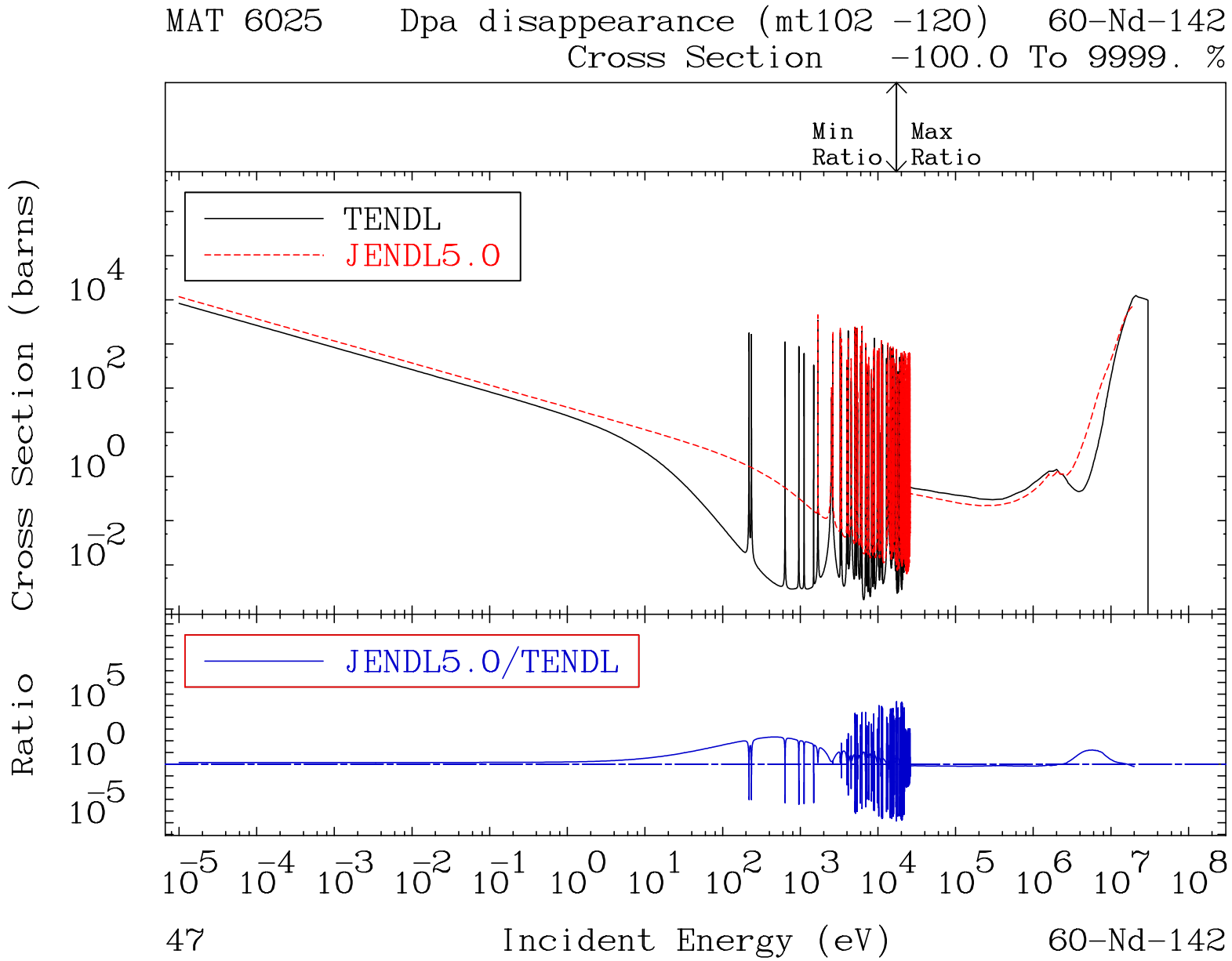

MAT 6025 Total kinematic kerma (high limit) 60-Nd-142
Cross Section -99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
42
60-Nd-142

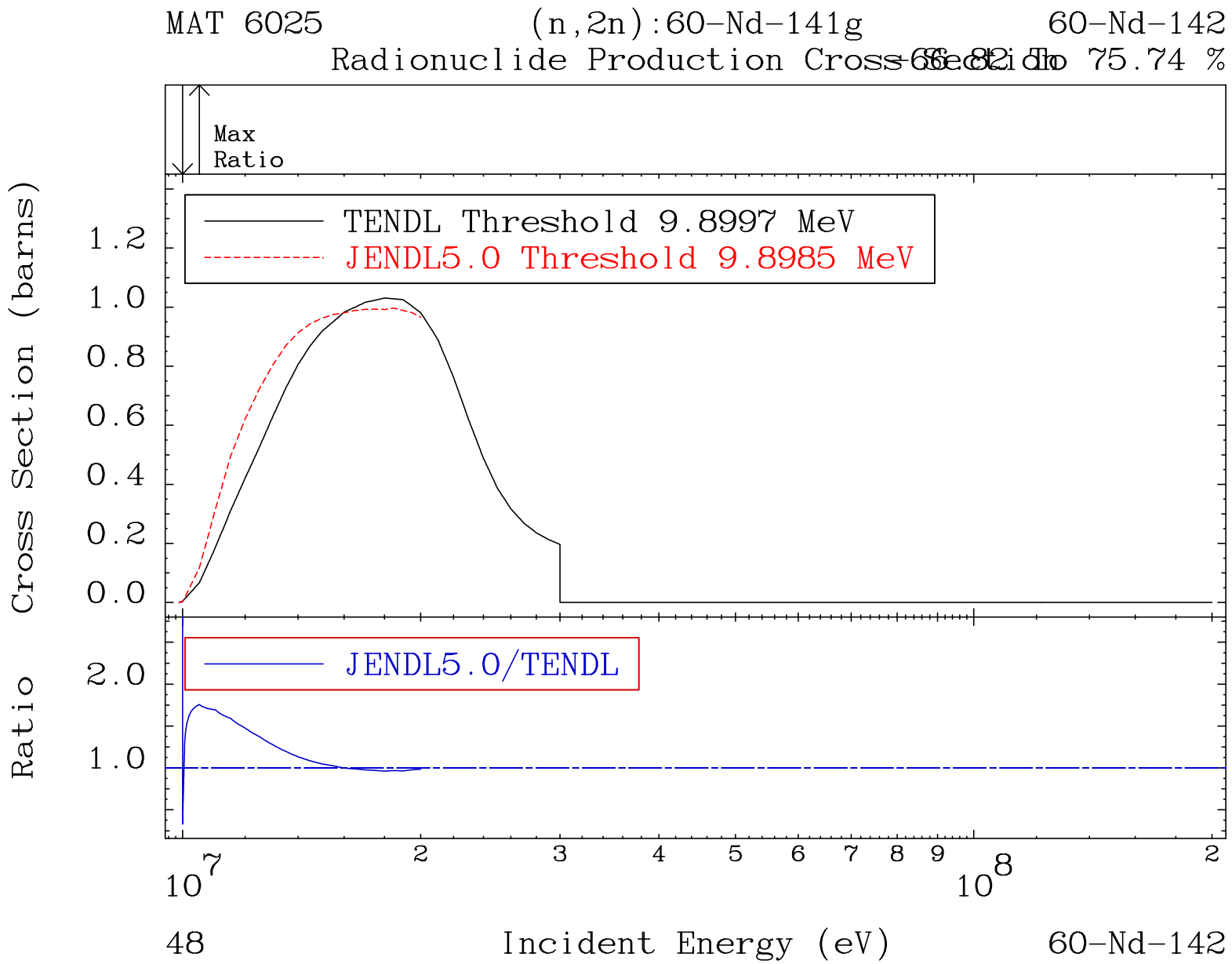

MAT 6025
Dpa total (eV-barns)
60-Nd-142
Cross Section
-99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
60-Nd-142

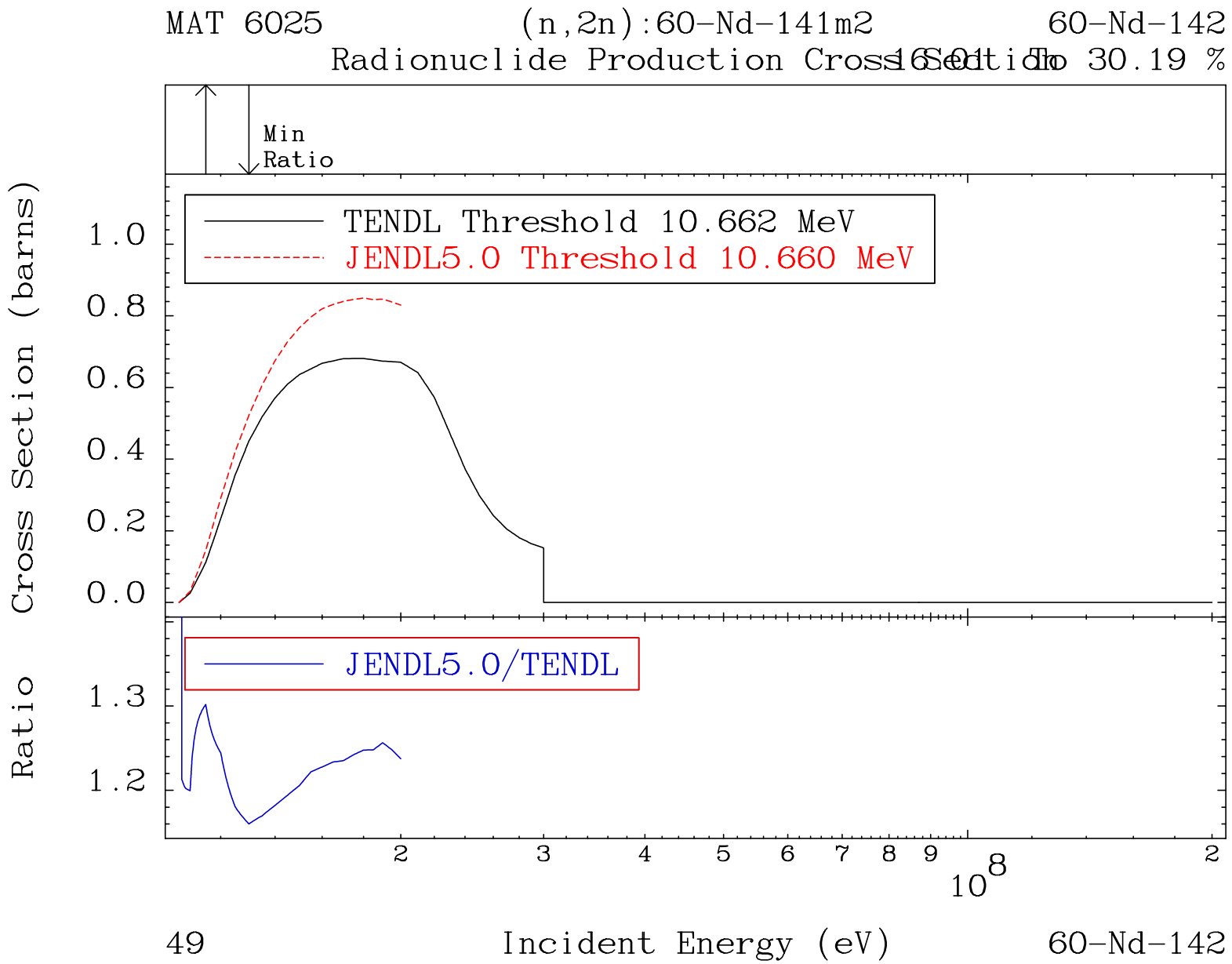

MAT 6025
Dpa elastic (mt2)
Cross Section
60-Nd-142
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 816.62 eV
CENDL3.2 Threshold 876.69 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
60-Nd-142

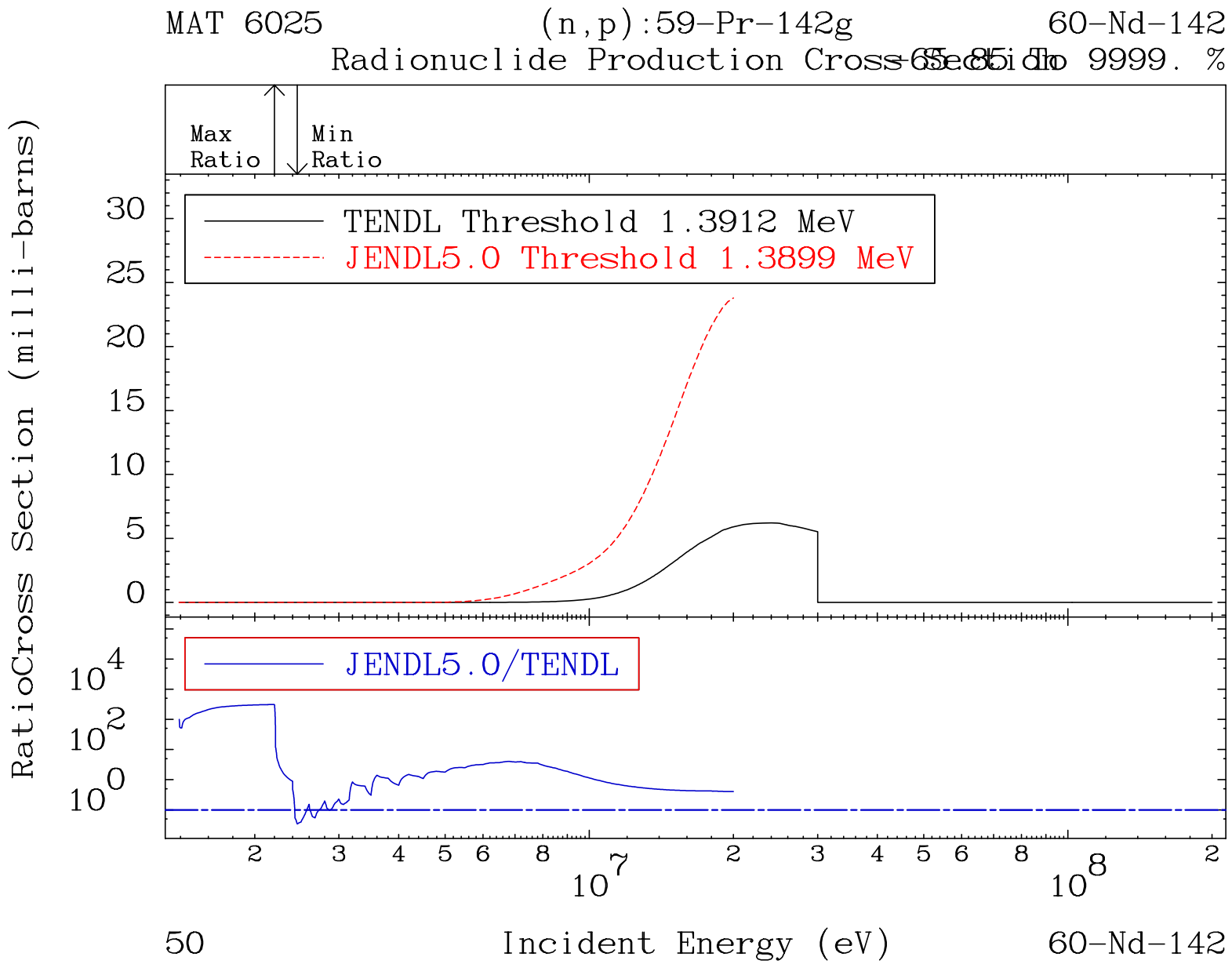

MAT 6025
Dpa inelastic (mt51-91)
60-Nd-142
Cross Section -100.0 To 354.1 %
Min Ratio
Max Ratio
TENDL Threshold 1.5870 MeV
CENDL3.2 Threshold 1.5870 MeV
CENDL3.2/TENDL
Ratio Cross Section (barns)
Incident Energy (eV)
45
60-Nd-142

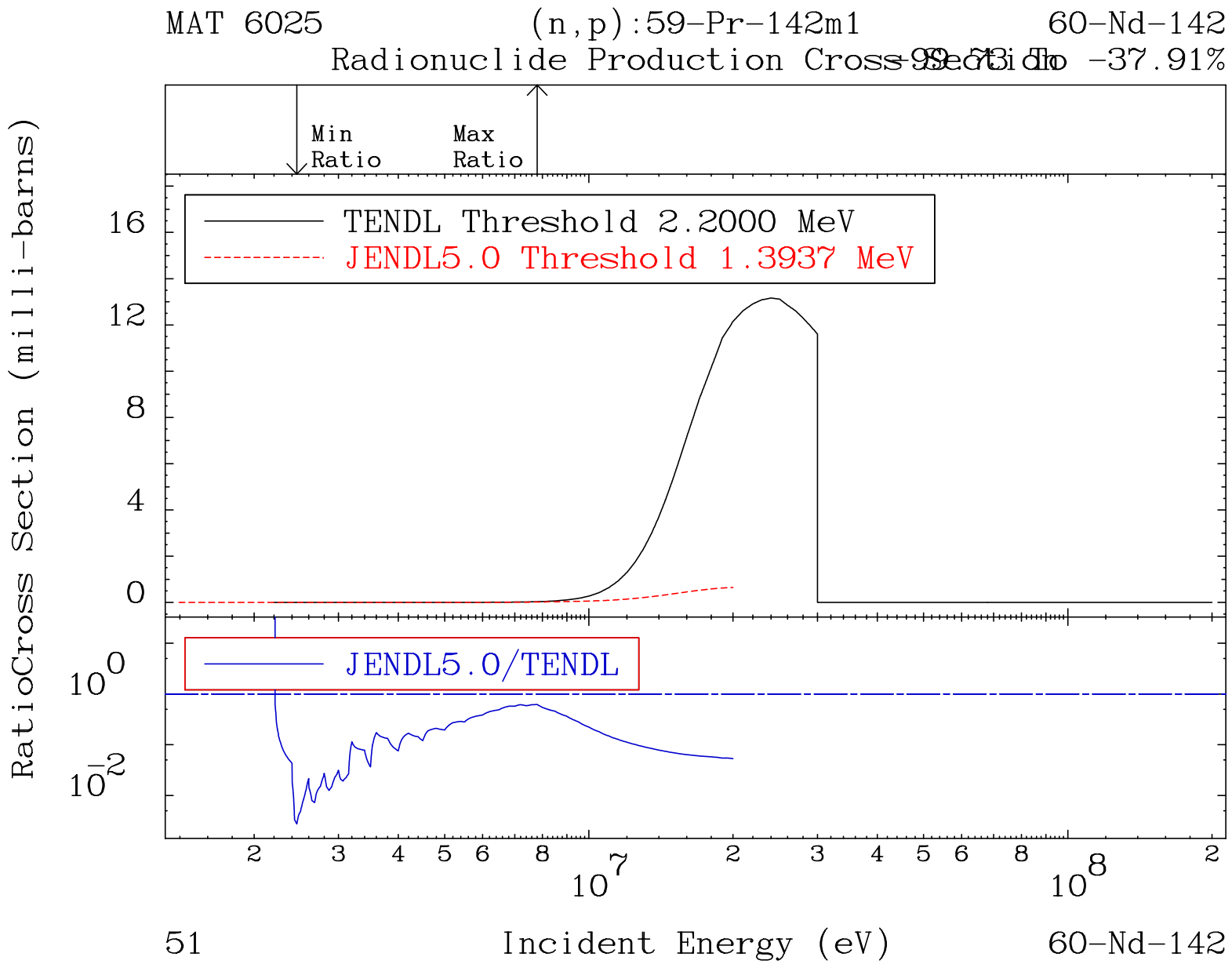

MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
60-Nd-142

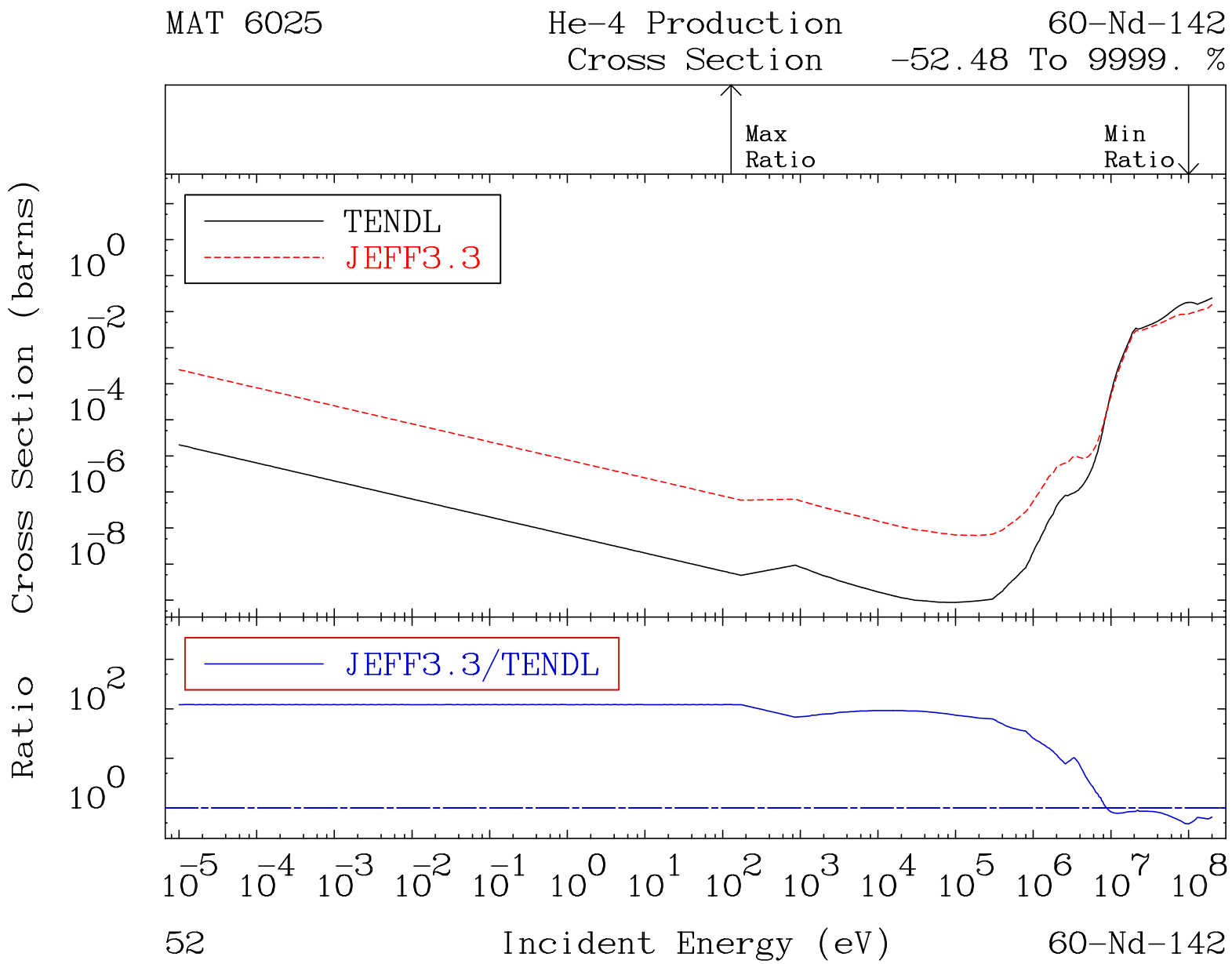

MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
60-Nd-142

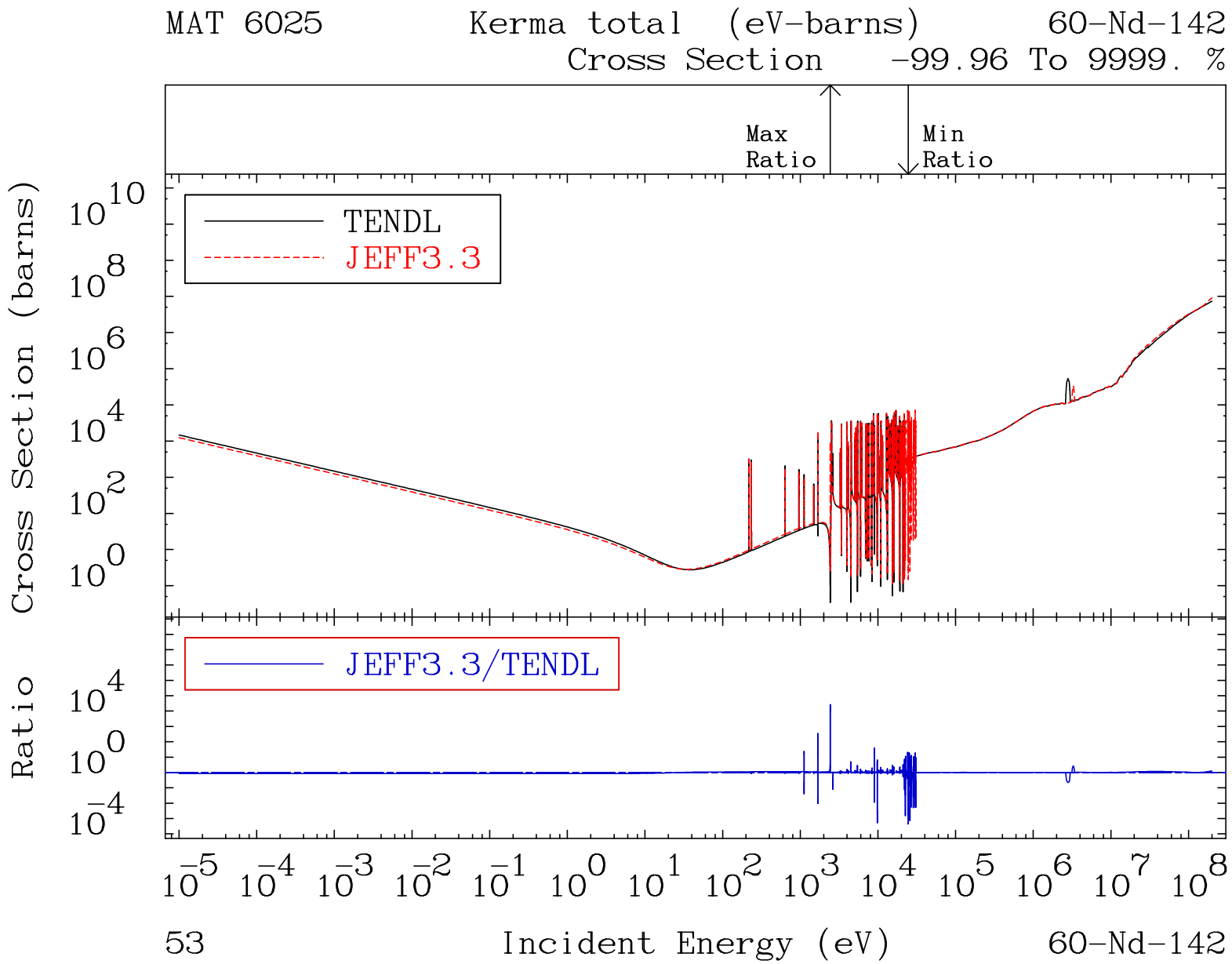

MAT 6025
(n,2n):60-Nd-141g
60-Nd-142
Radionuclide Production Cross Section To 75.74 %
Max
Ratio
TENDL Threshold 9.8997 MeV
JENDL5.0 Threshold 9.8985 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
60-Nd-142

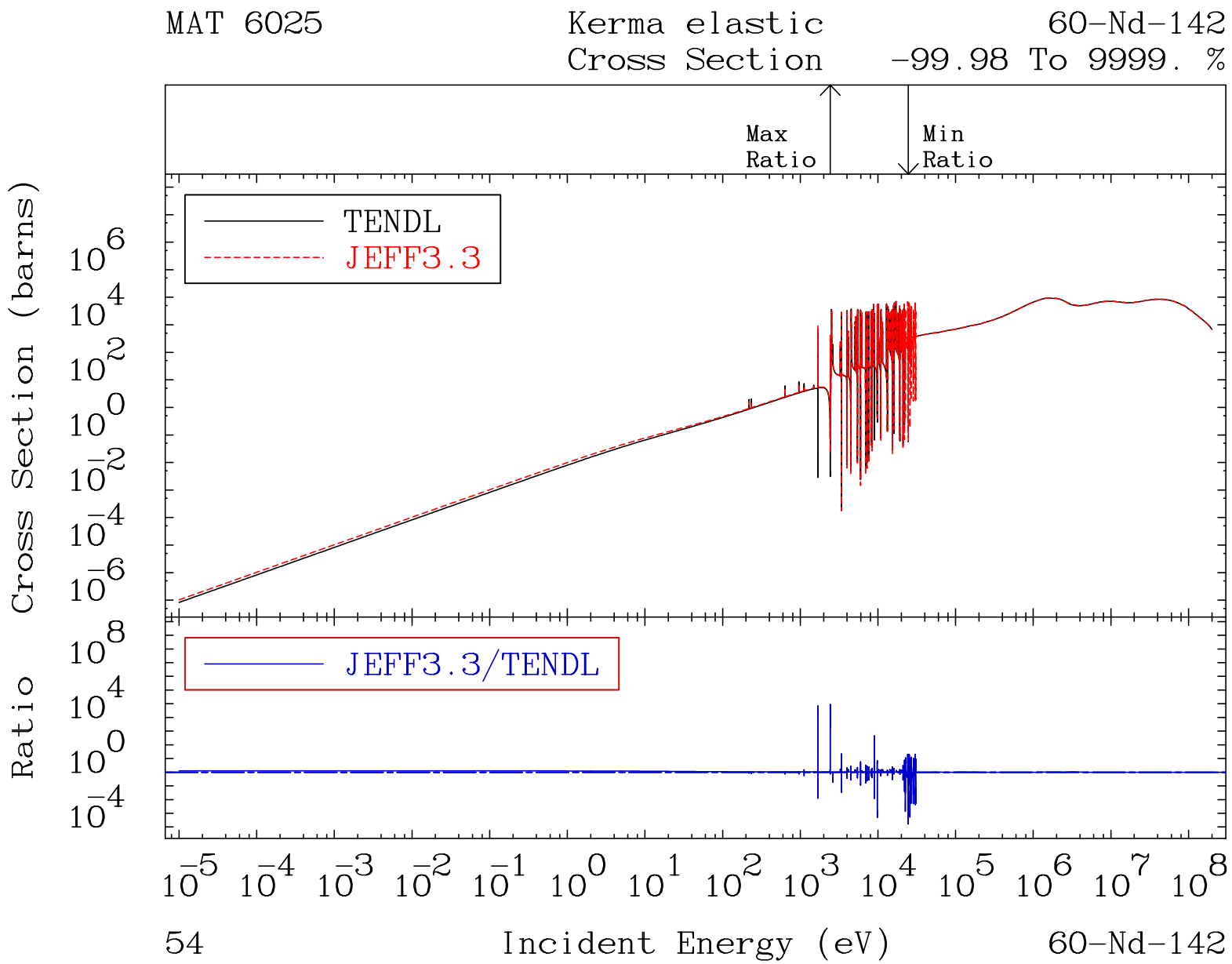

MAT 6025
(n,2n):60-Nd-141m2
60-Nd-142
Radionuclide Production Cross Section
16.01 To 30.19 %
Min
Ratio
TENDL Threshold 10.662 MeV
JENDL5.0 Threshold 10.660 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.3
1.2
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
60-Nd-142

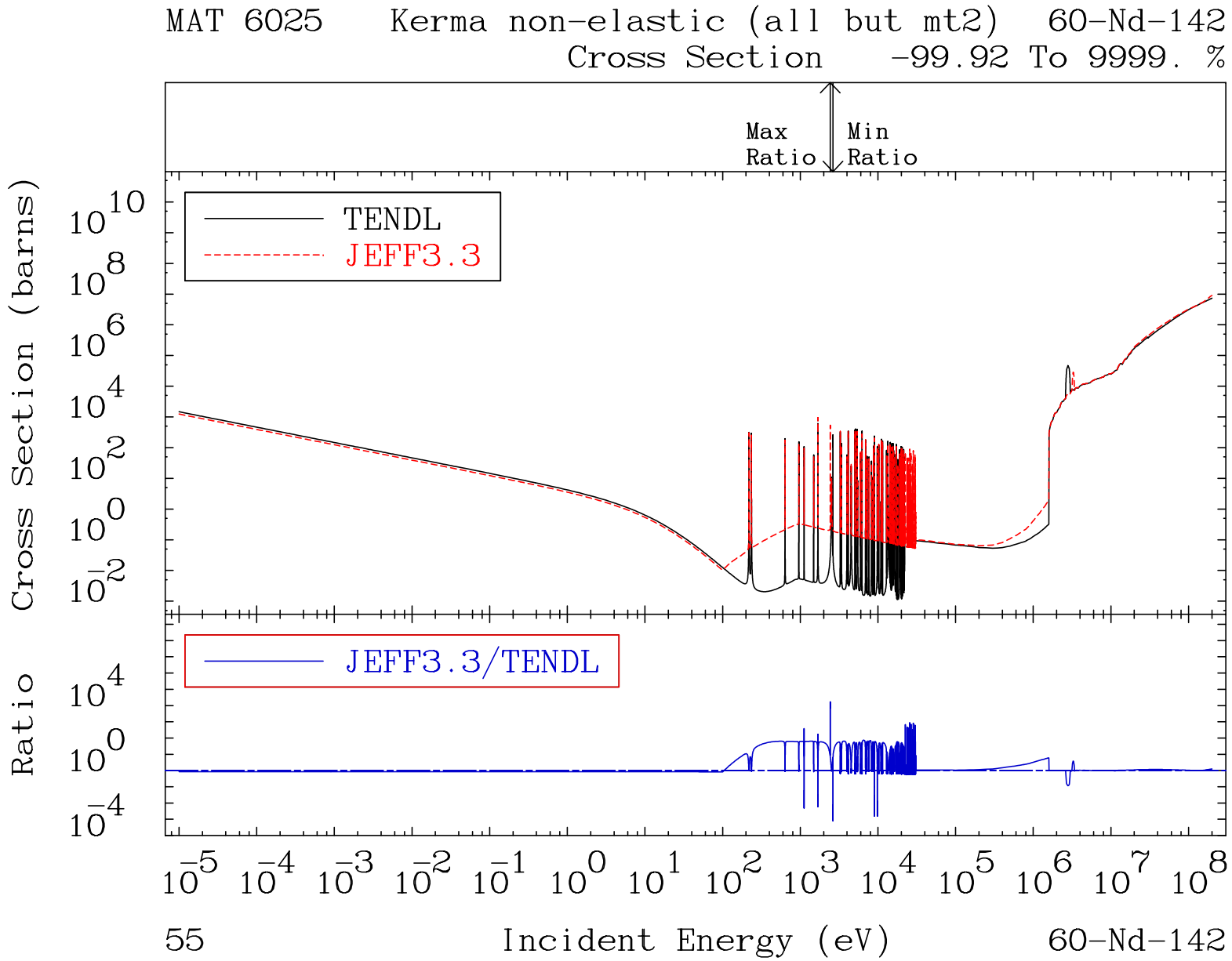

MAT 6025
(n,p):59-Pr-142g
60-Nd-142
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.3912 MeV
JENDL5.0 Threshold 1.3899 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
10^4
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
50
Incident Energy (eV)
60-Nd-142

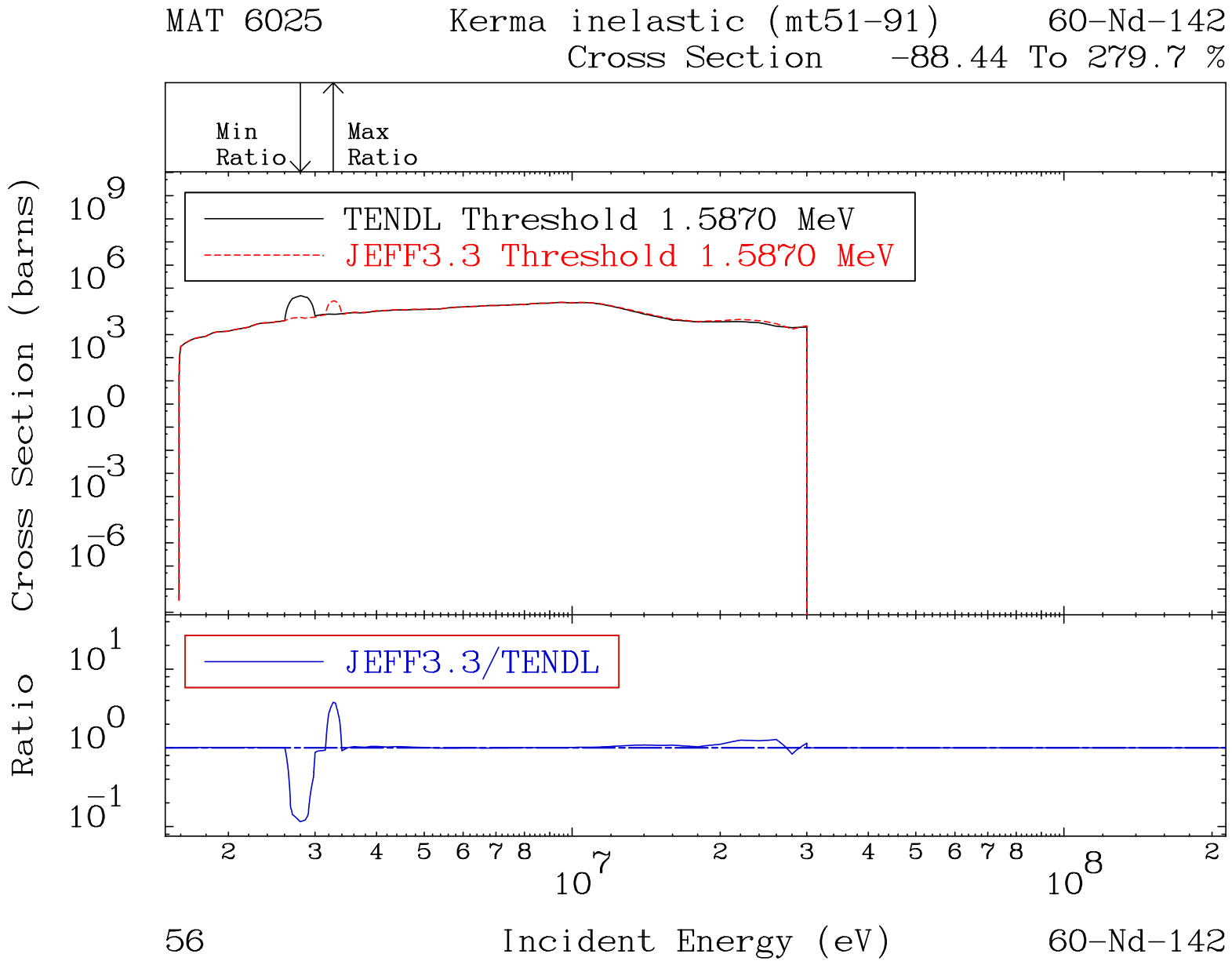

MAT 6025
(n,p):59-Pr-142m1
60-Nd-142
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 2.2000 MeV
JENDL5.0 Threshold 1.3937 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
51
60-Nd-142

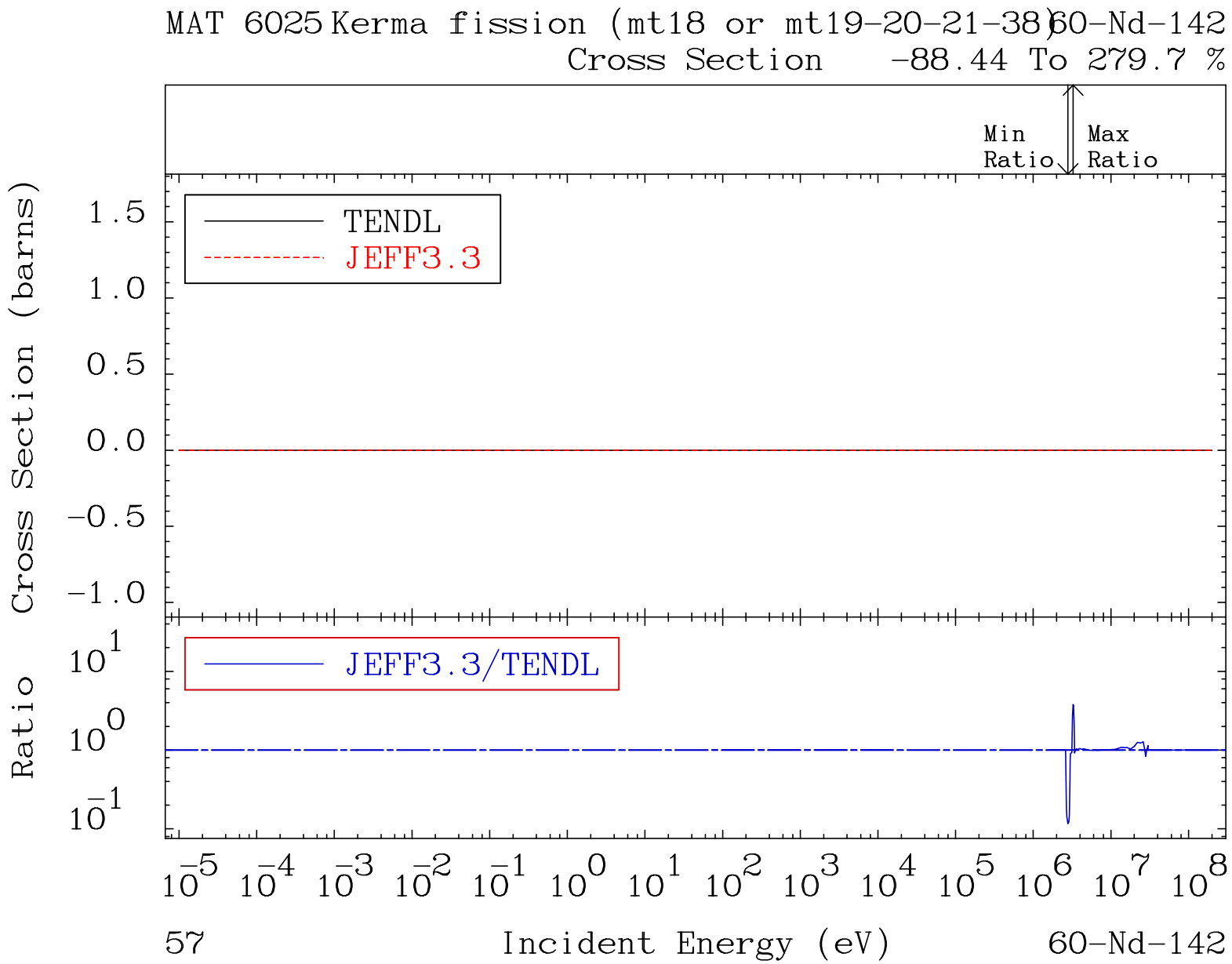

MAT 6025
He-4 Production
Cross Section
60-Nd-142
-52.48 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
60-Nd-142

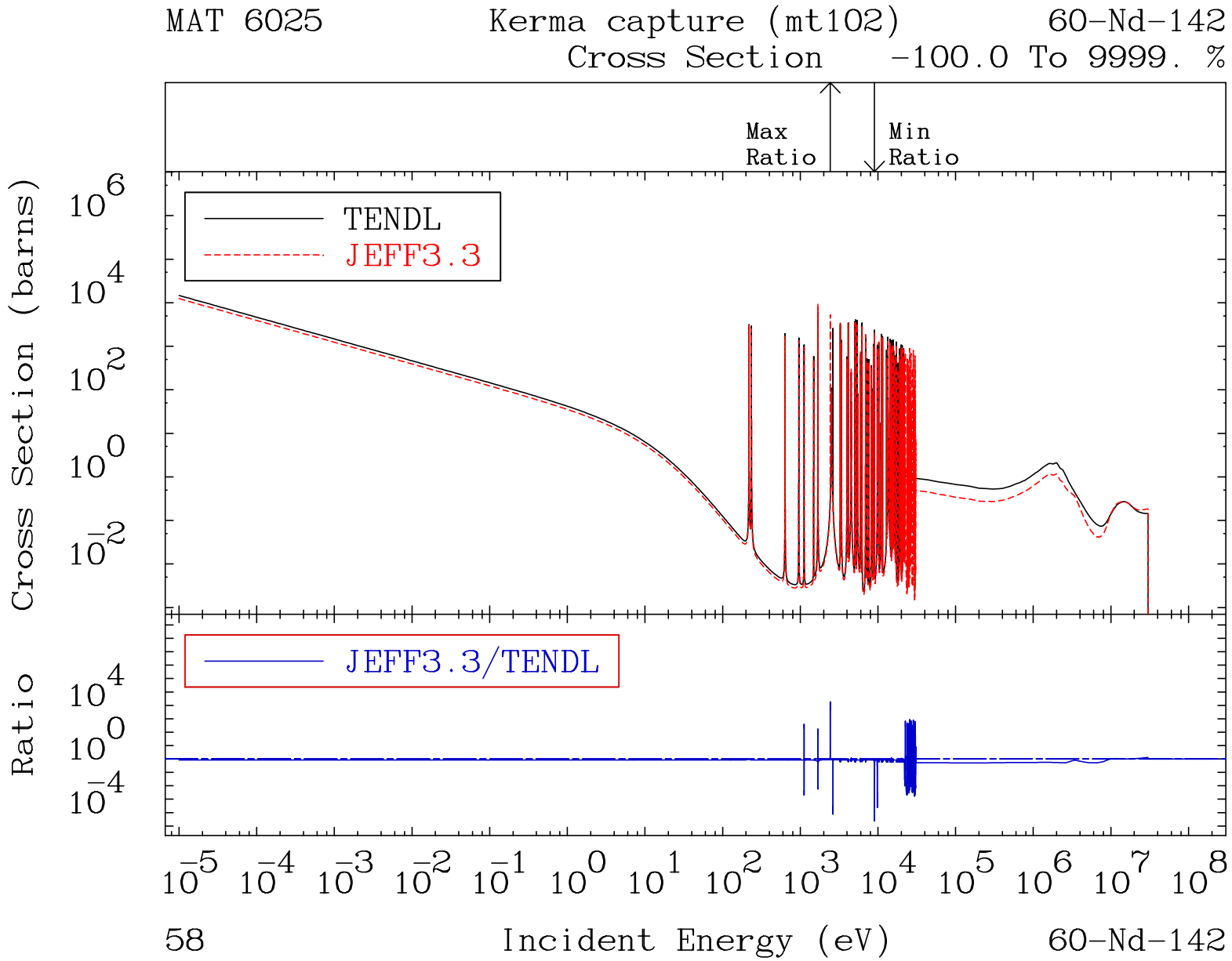

MAT 6025
Kerma total (eV-barns)
60-Nd-142
Cross Section -99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
60-Nd-142

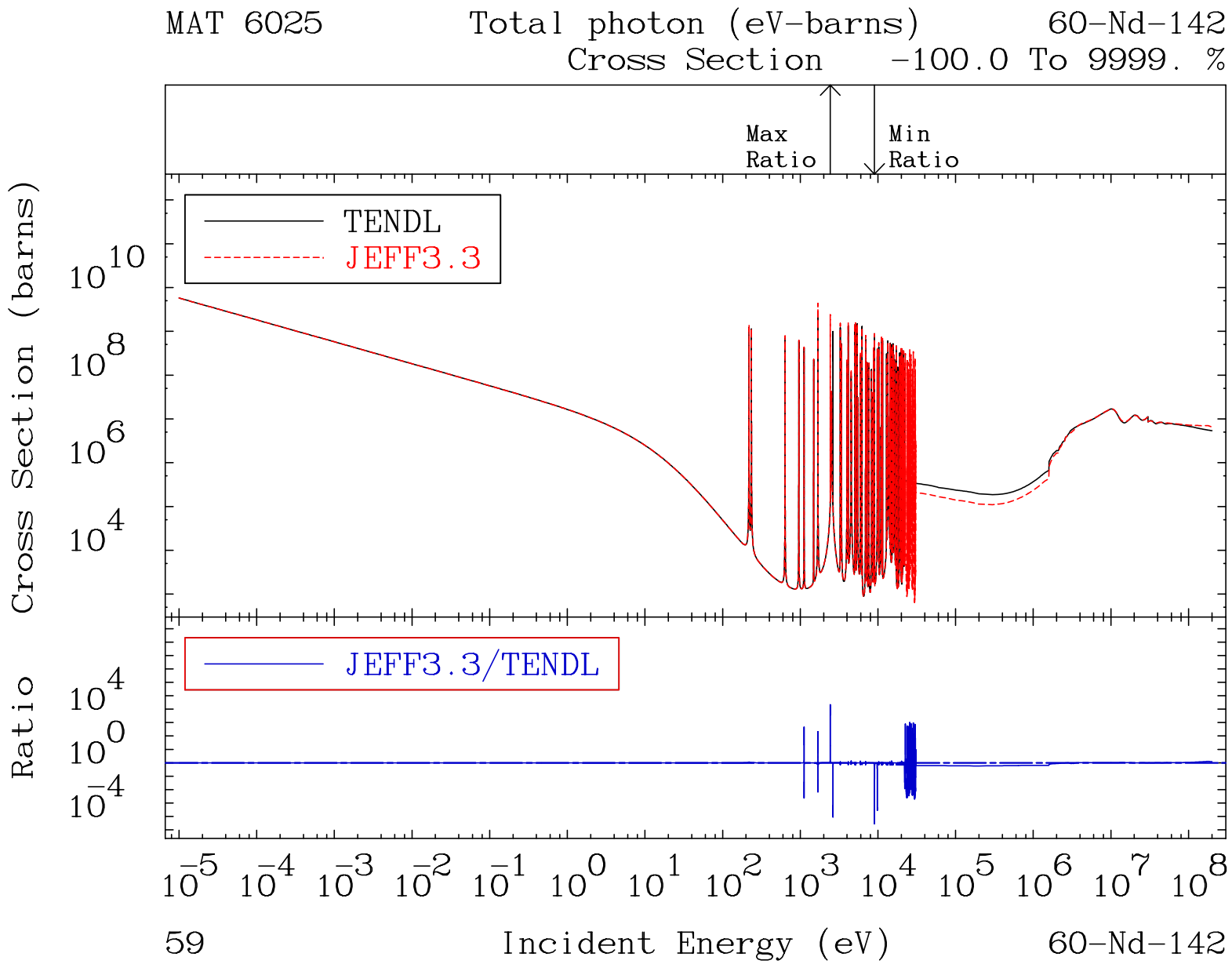

MAT 6025
Kerma elastic
Cross Section
60-Nd-142
-99.98 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
60-Nd-142

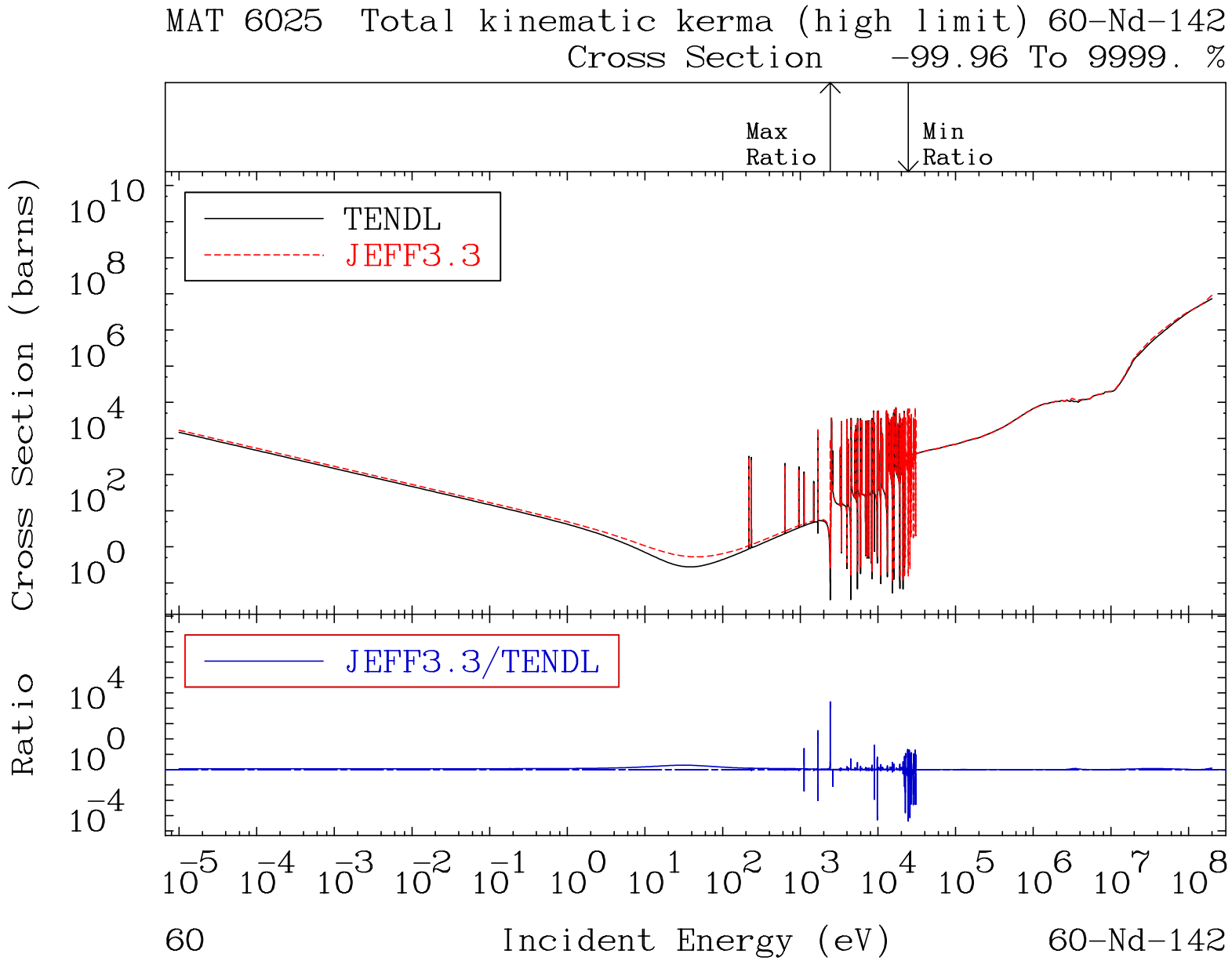

MAT 6025 Kerma non-elastic (all but mt2) 60-Nd-142
Cross Section -99.92 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
60-Nd-142

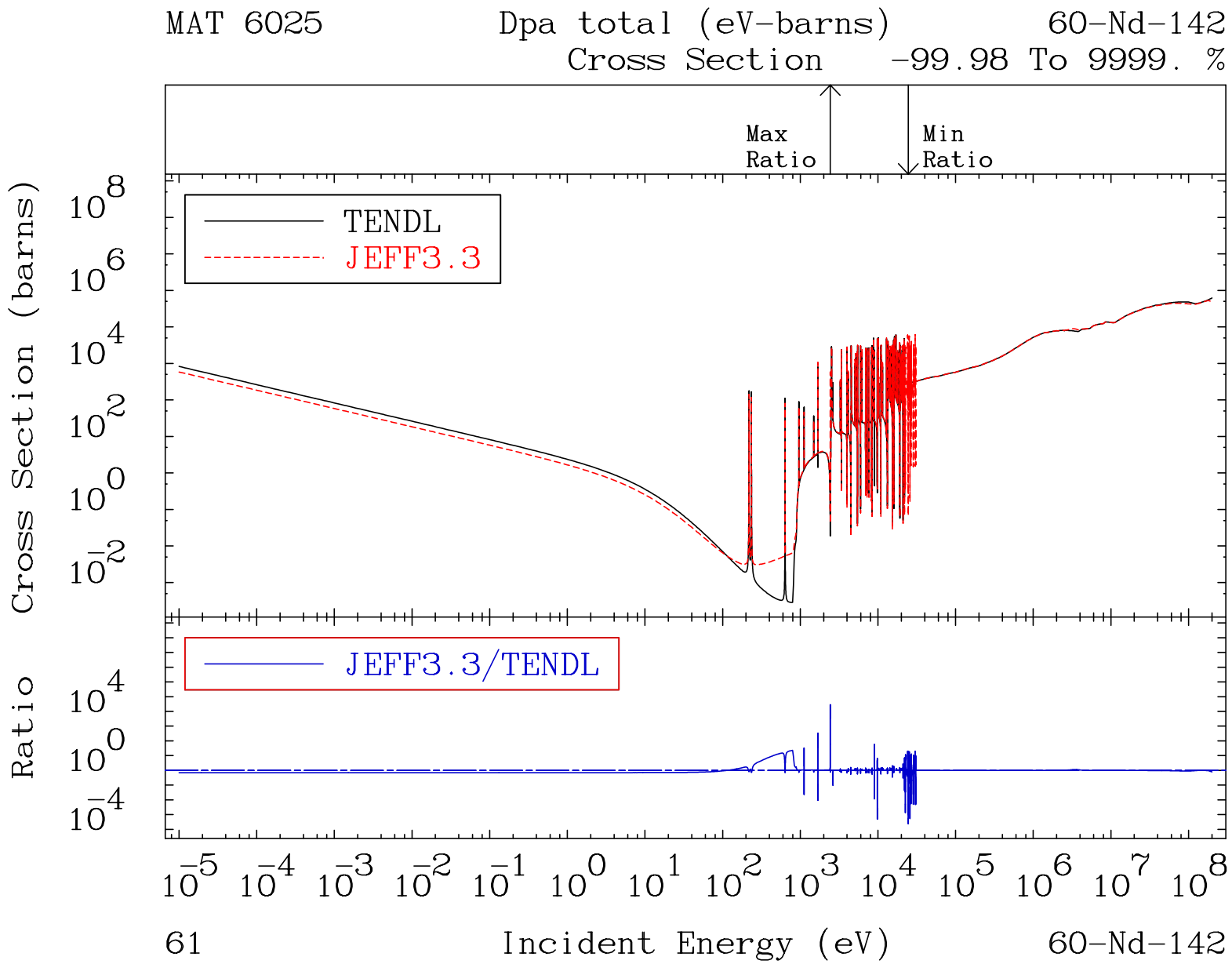

MAT 6025
Kerma inelastic (mt51-91)
60-Nd-142
Cross Section -88.44 To 279.7 %
Min Ratio
Max Ratio
TENDL Threshold 1.5870 MeV
JEFF3.3 Threshold 1.5870 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
60-Nd-142

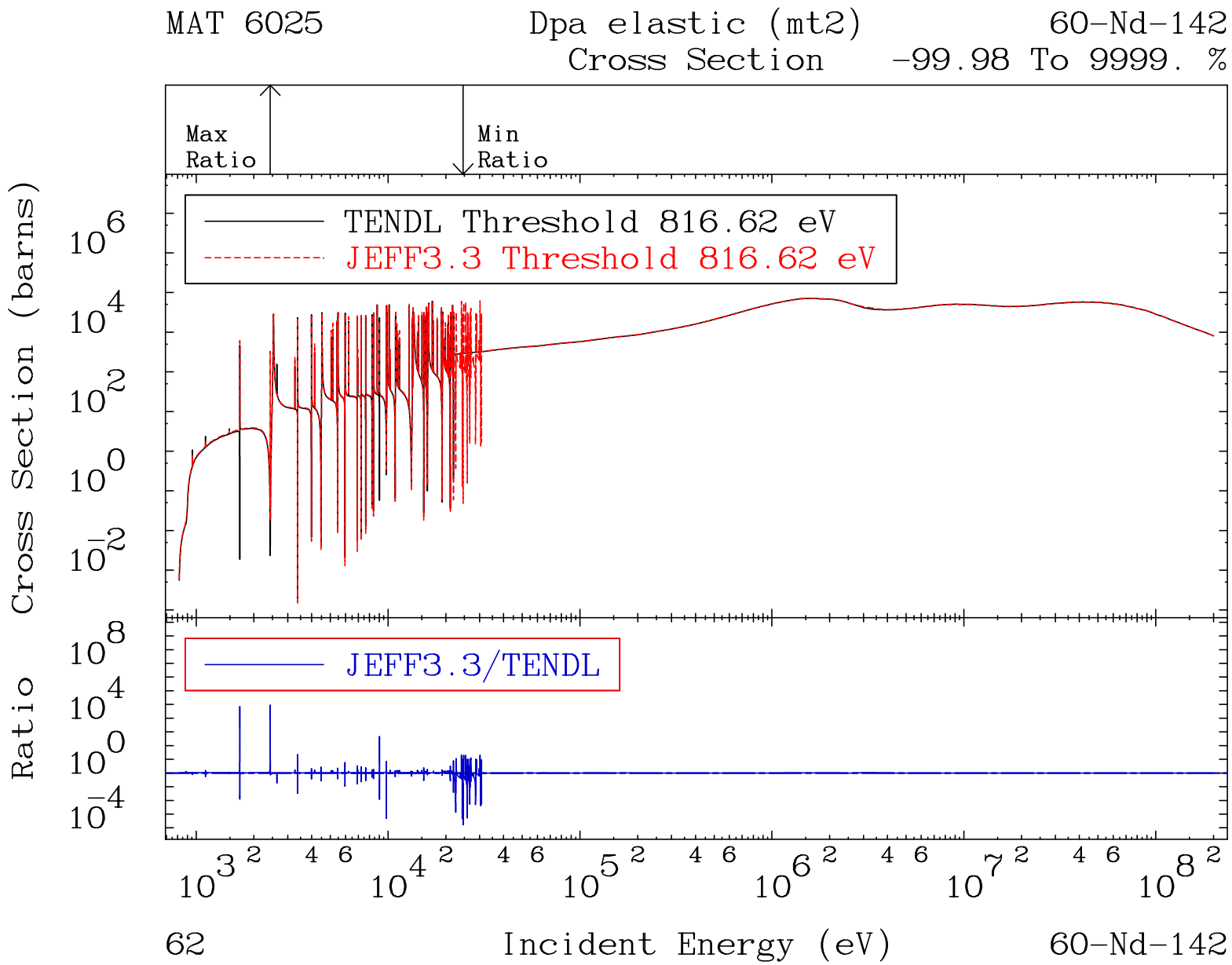

MAT 6025 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-142
Cross Section -88.44 To 279.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{1}
10^{0}
10^{-1}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
57
Incident Energy (eV)
60-Nd-142

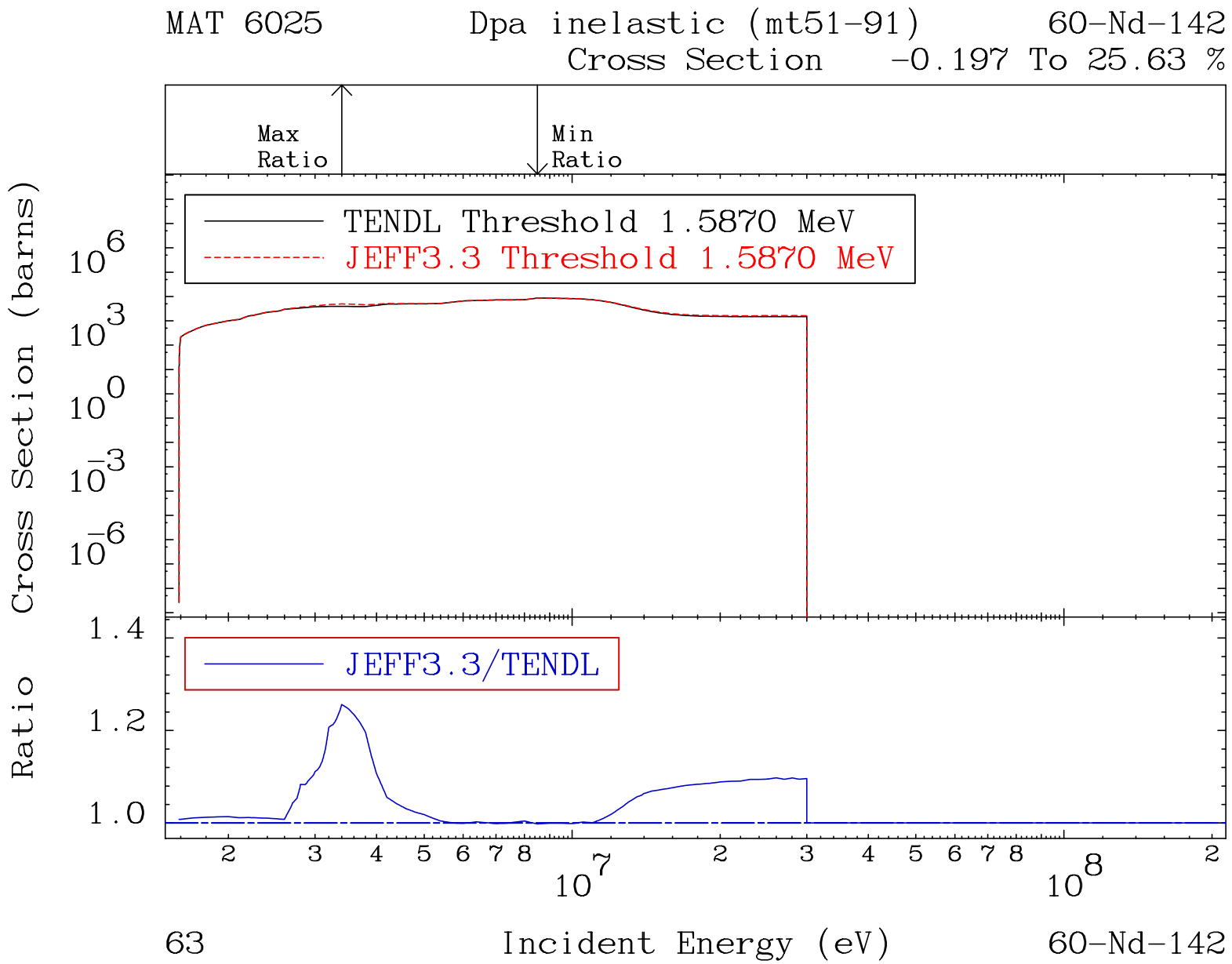

MAT 6025
Kerma capture (mt102)
60-Nd-142
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
60-Nd-142

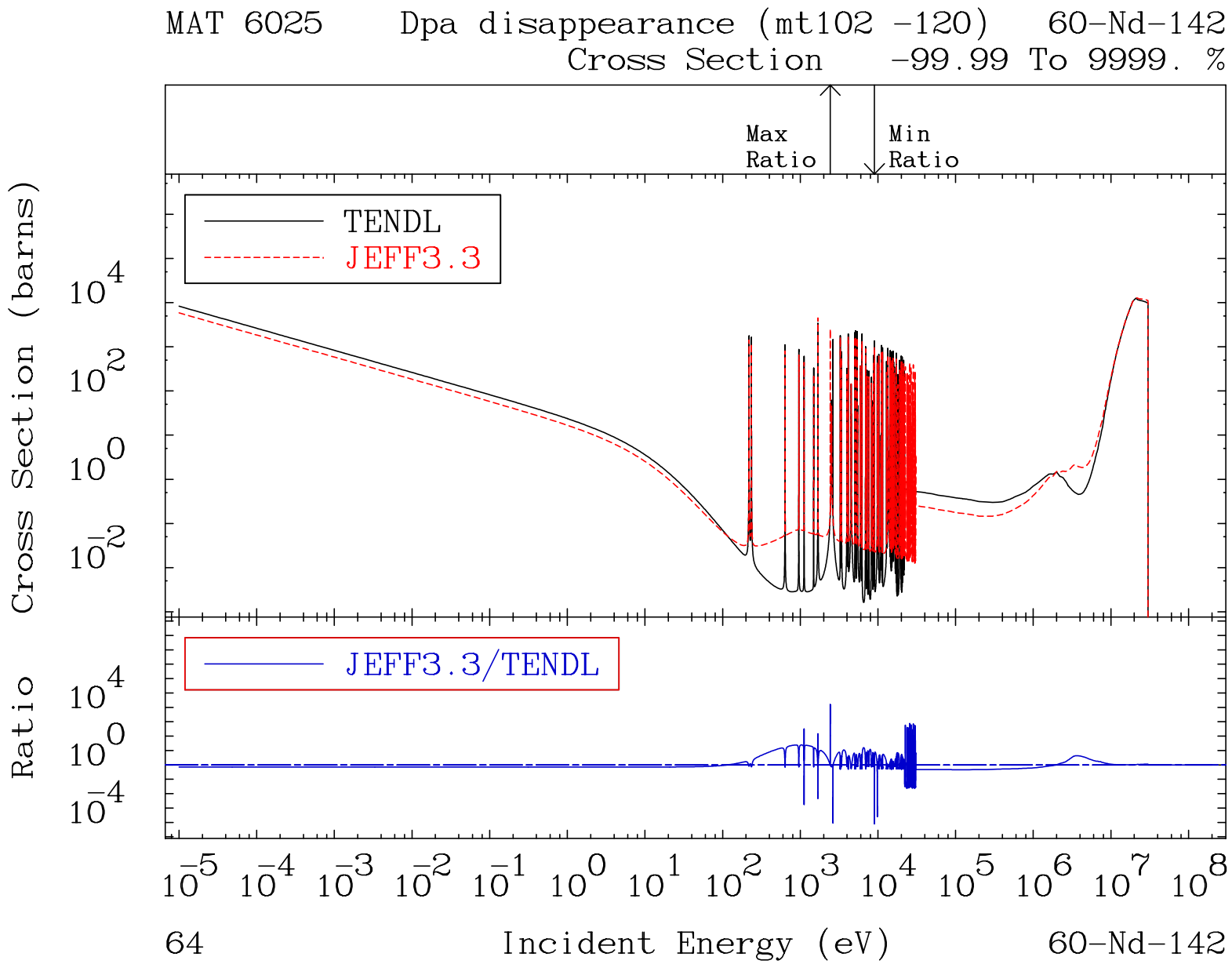

MAT 6025
Total photon (eV-barns)
60-Nd-142
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
60-Nd-142

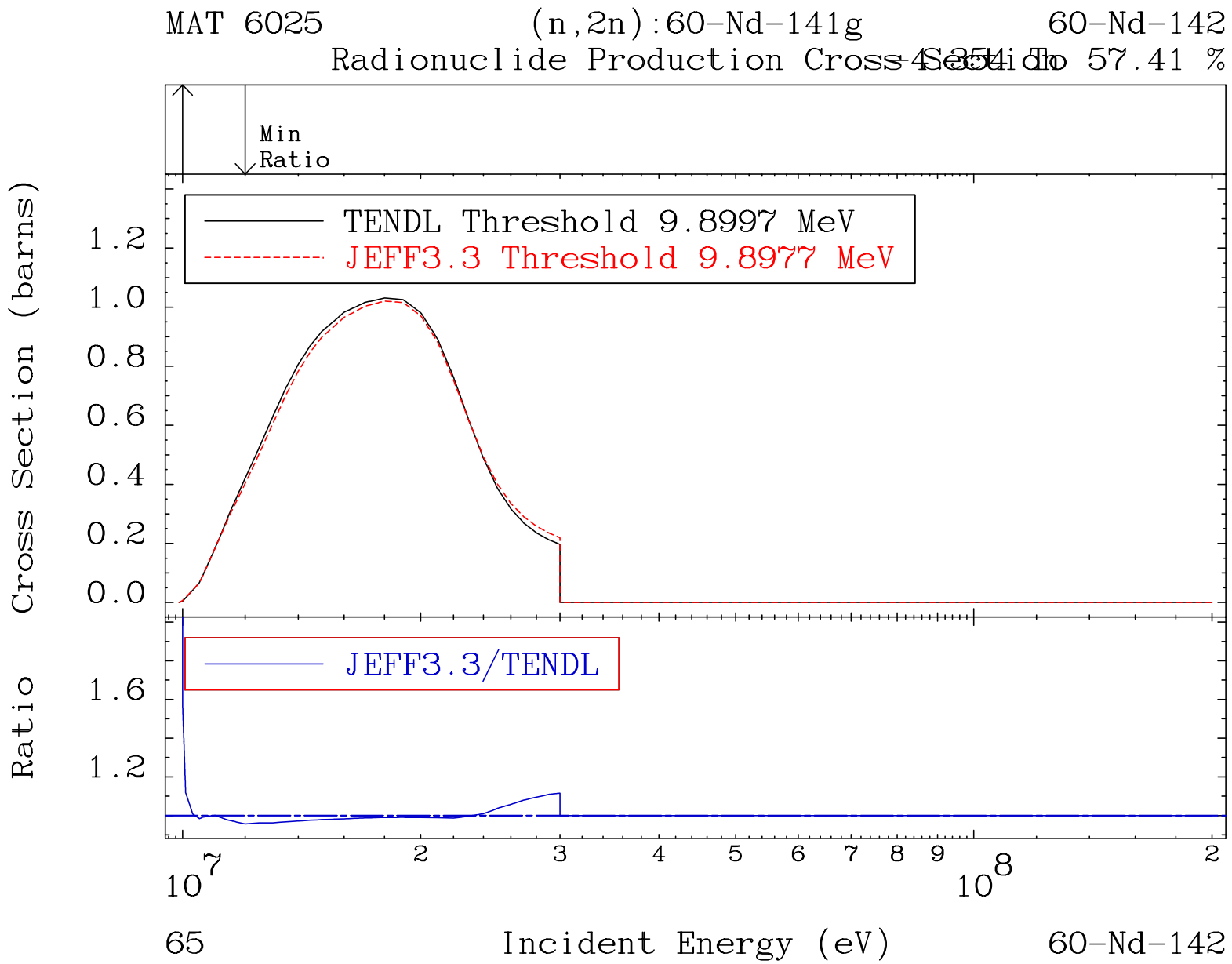

MAT 6025 Total kinematic kerma (high limit) 60-Nd-142
Cross Section -99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
60-Nd-142

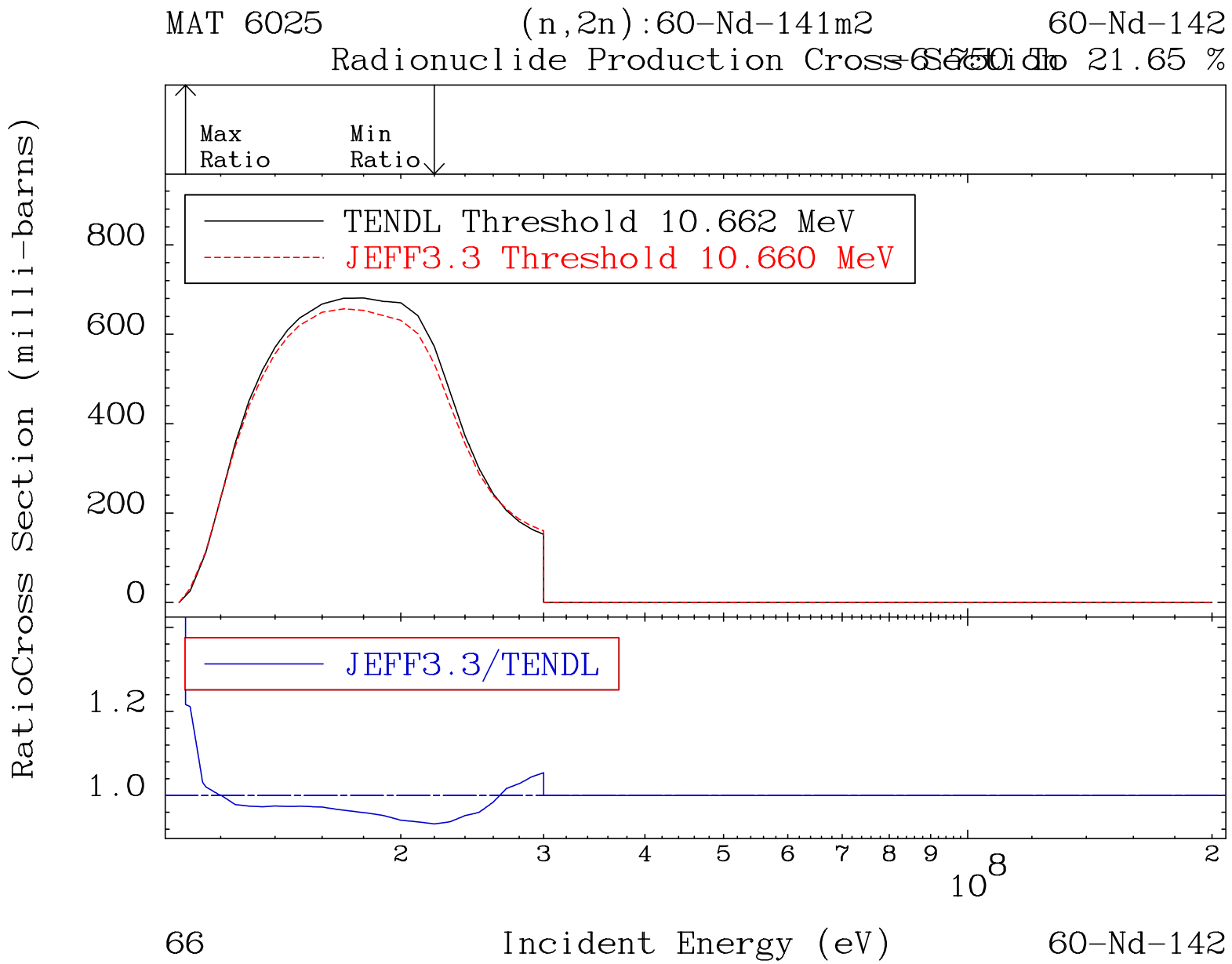

MAT 6025
Dpa total (eV-barns)
60-Nd-142
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
60-Nd-142

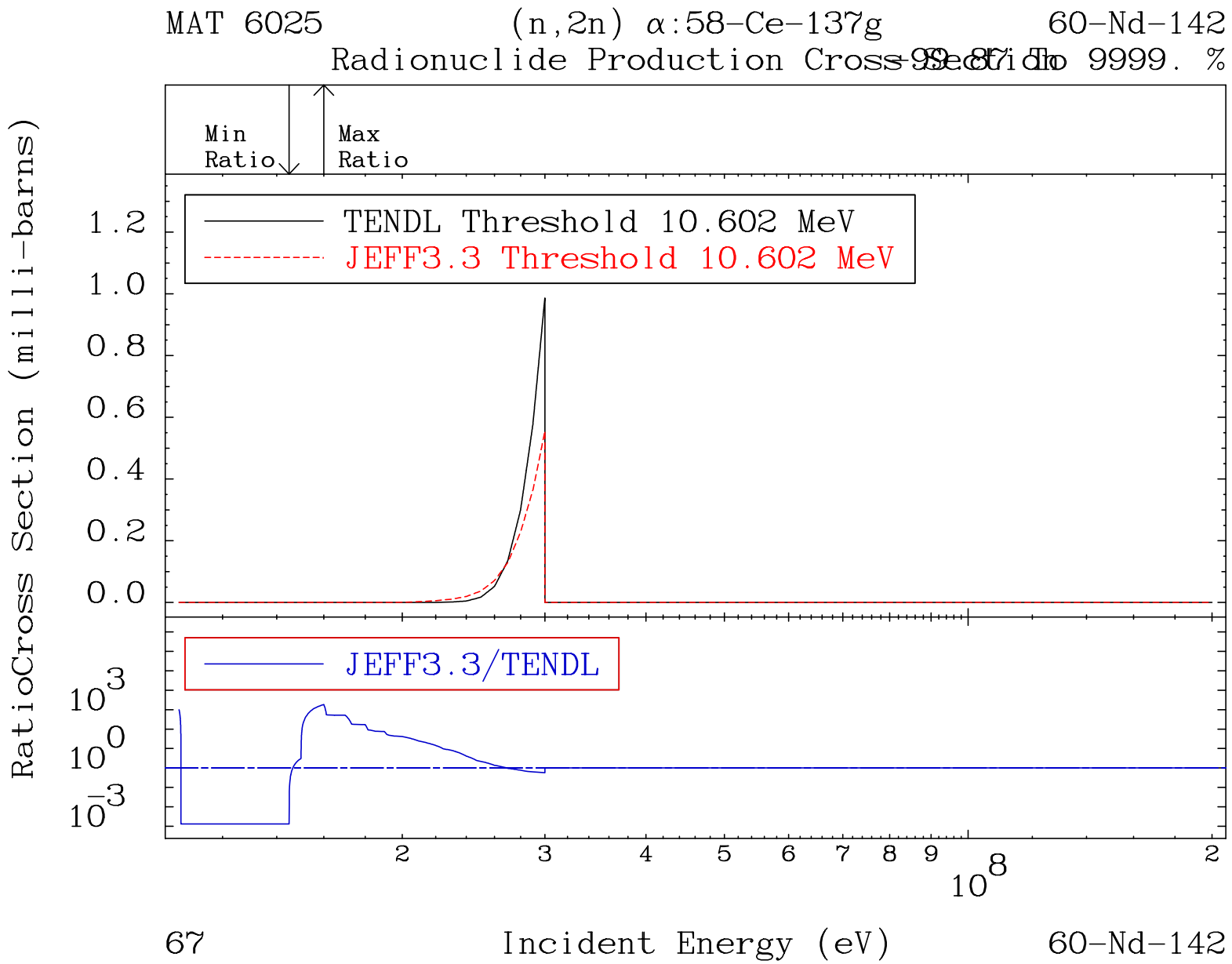

MAT 6025
Dpa elastic (mt2)
Cross Section
60-Nd-142
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 816.62 eV
JEFF3.3 Threshold 816.62 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
60-Nd-142

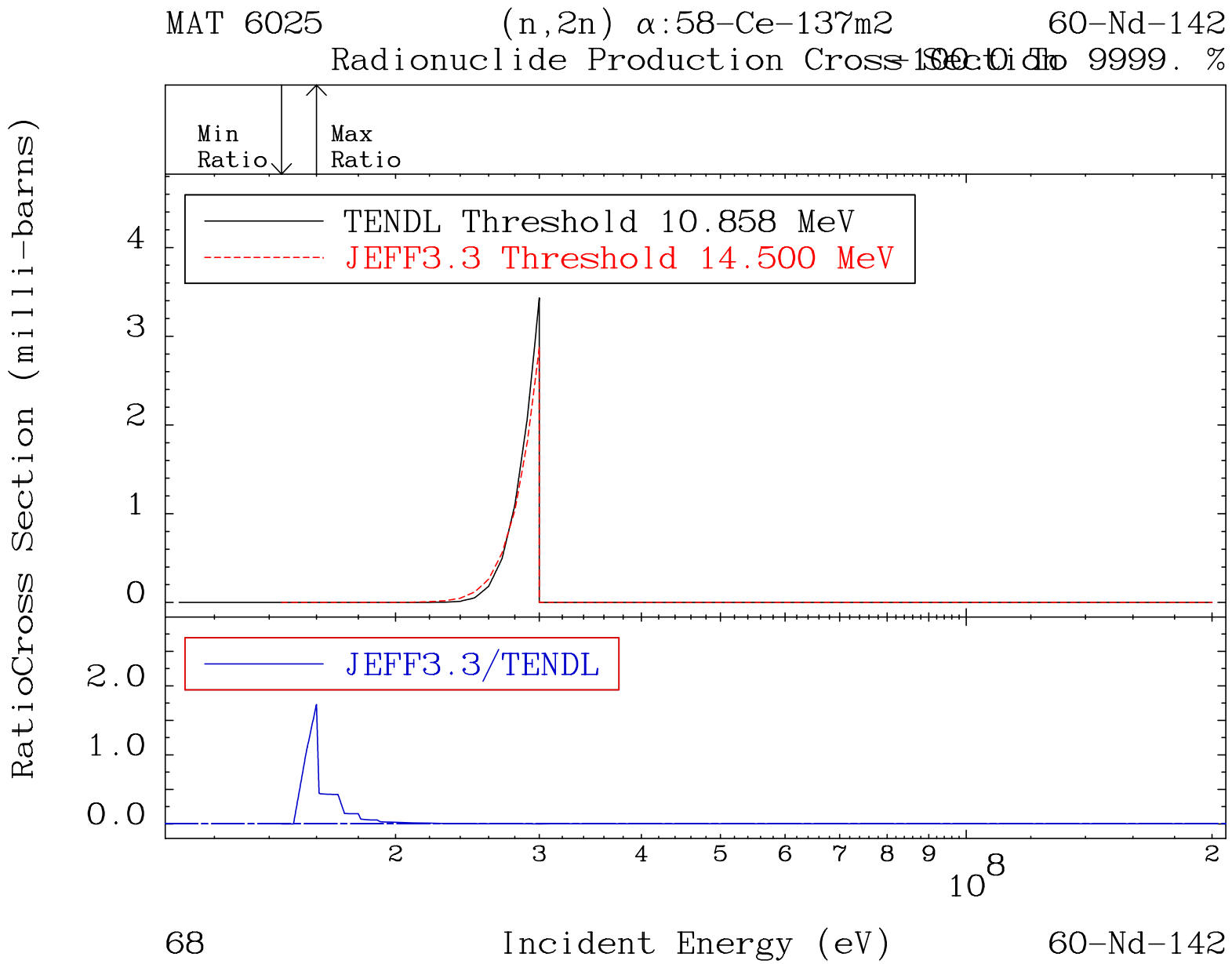

MAT 6025
Dpa inelastic (mt51-91)
60-Nd-142
Cross Section
-0.197 To 25.63 %
Max Ratio
Min Ratio
TENDL Threshold 1.5870 MeV
JEFF3.3 Threshold 1.5870 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
60-Nd-142

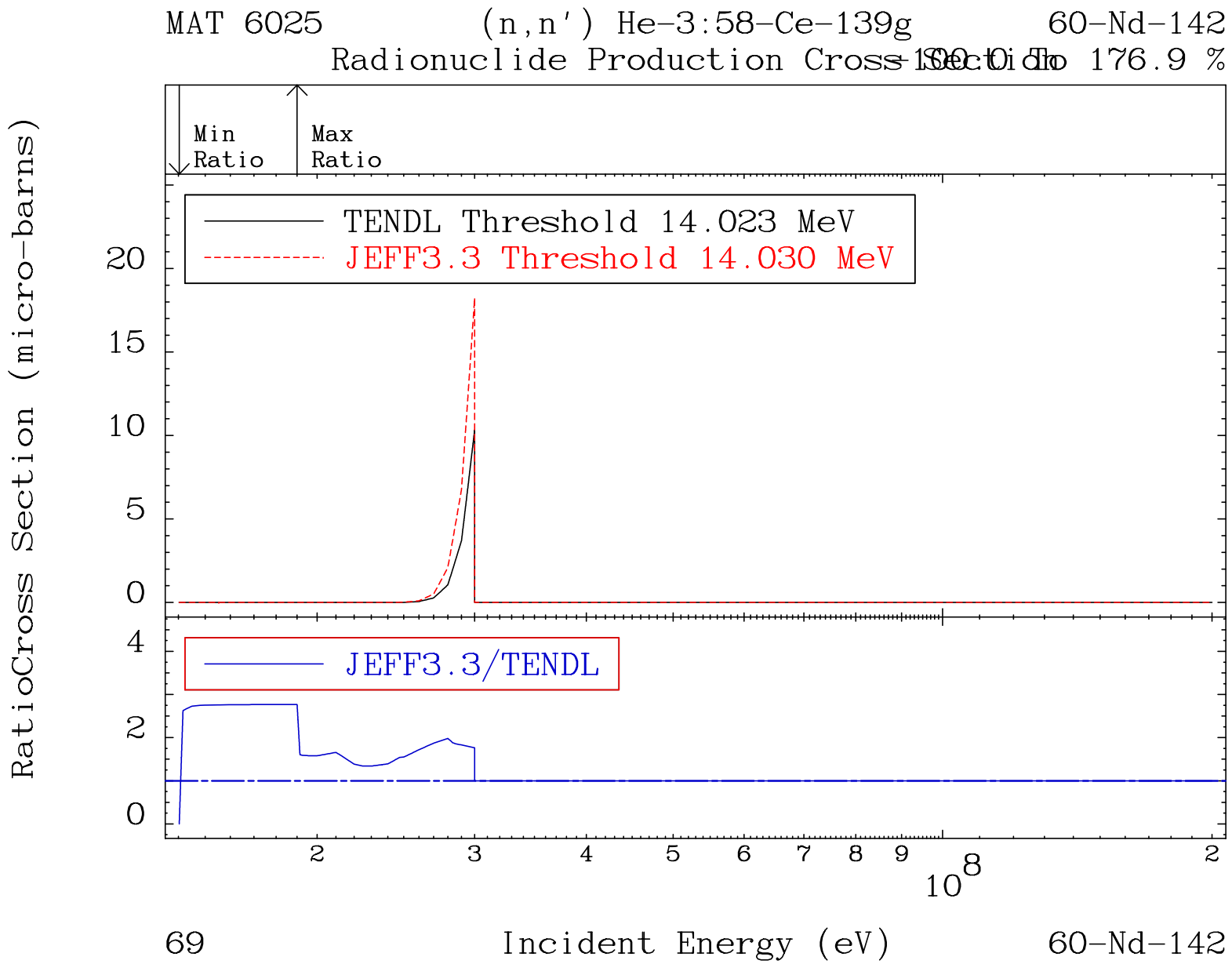

MAT 6025 Dpa disappearance (mt102 -120) 60-Nd-142
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
60-Nd-142

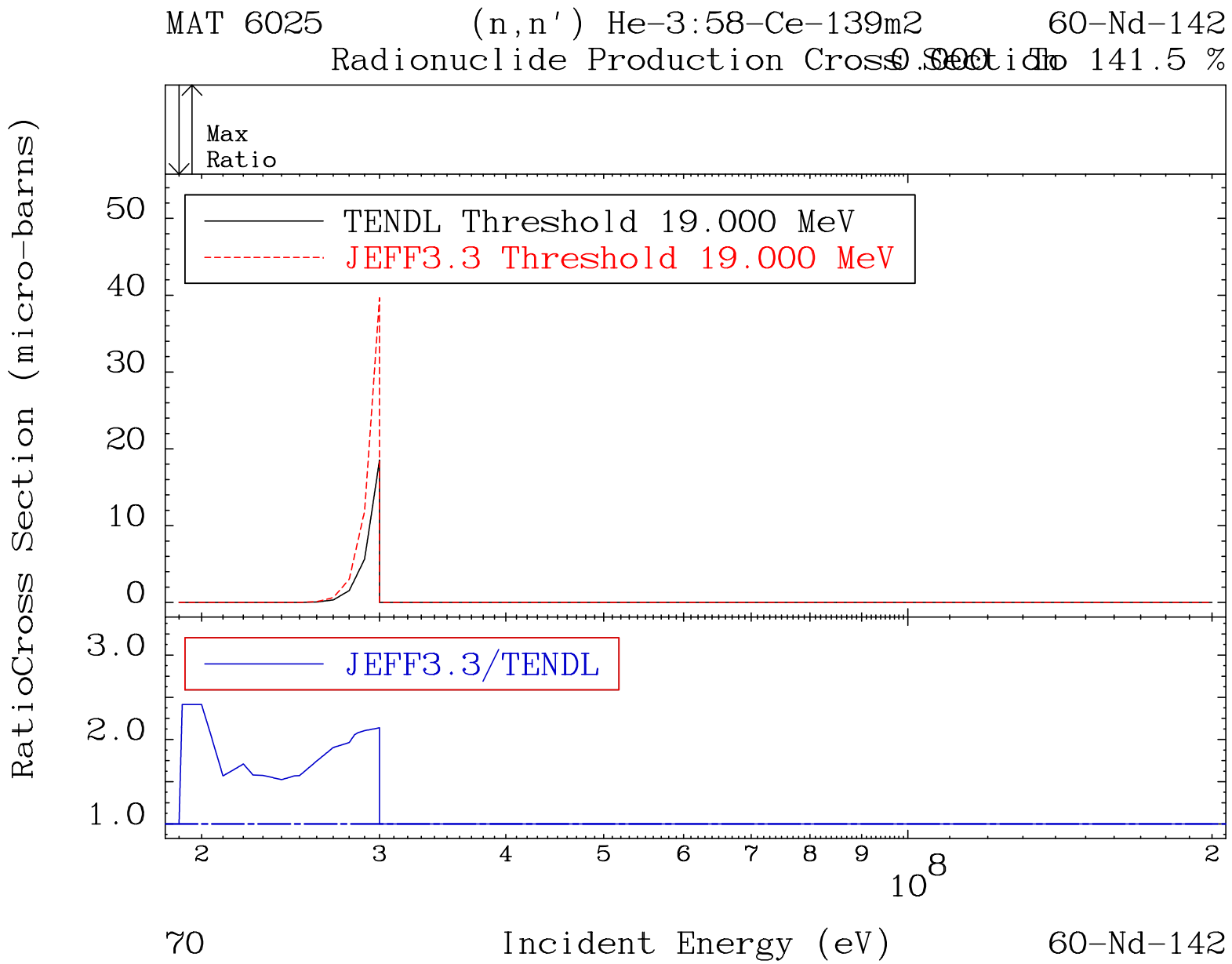

MAT 6025
(n,2n):60-Nd-141g
60-Nd-142
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 9.8997 MeV
JEFF3.3 Threshold 9.8977 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
60-Nd-142

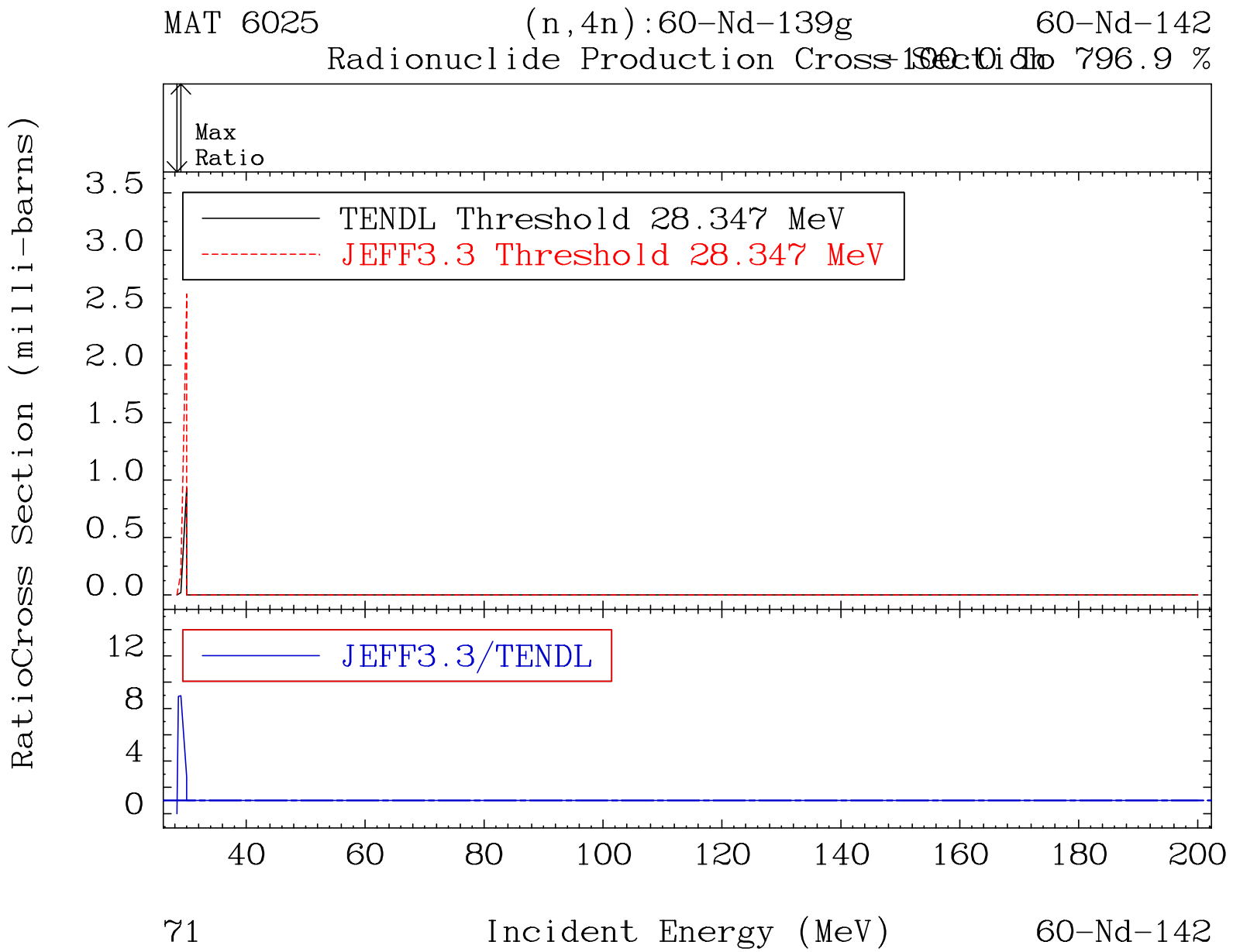

MAT 6025
(n,2n):60-Nd-141m2
60-Nd-142
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.662 MeV
JEFF3.3 Threshold 10.660 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
1.0
2
3
4
5
6
7
8
9
2
10^8
66
Incident Energy (eV)
60-Nd-142

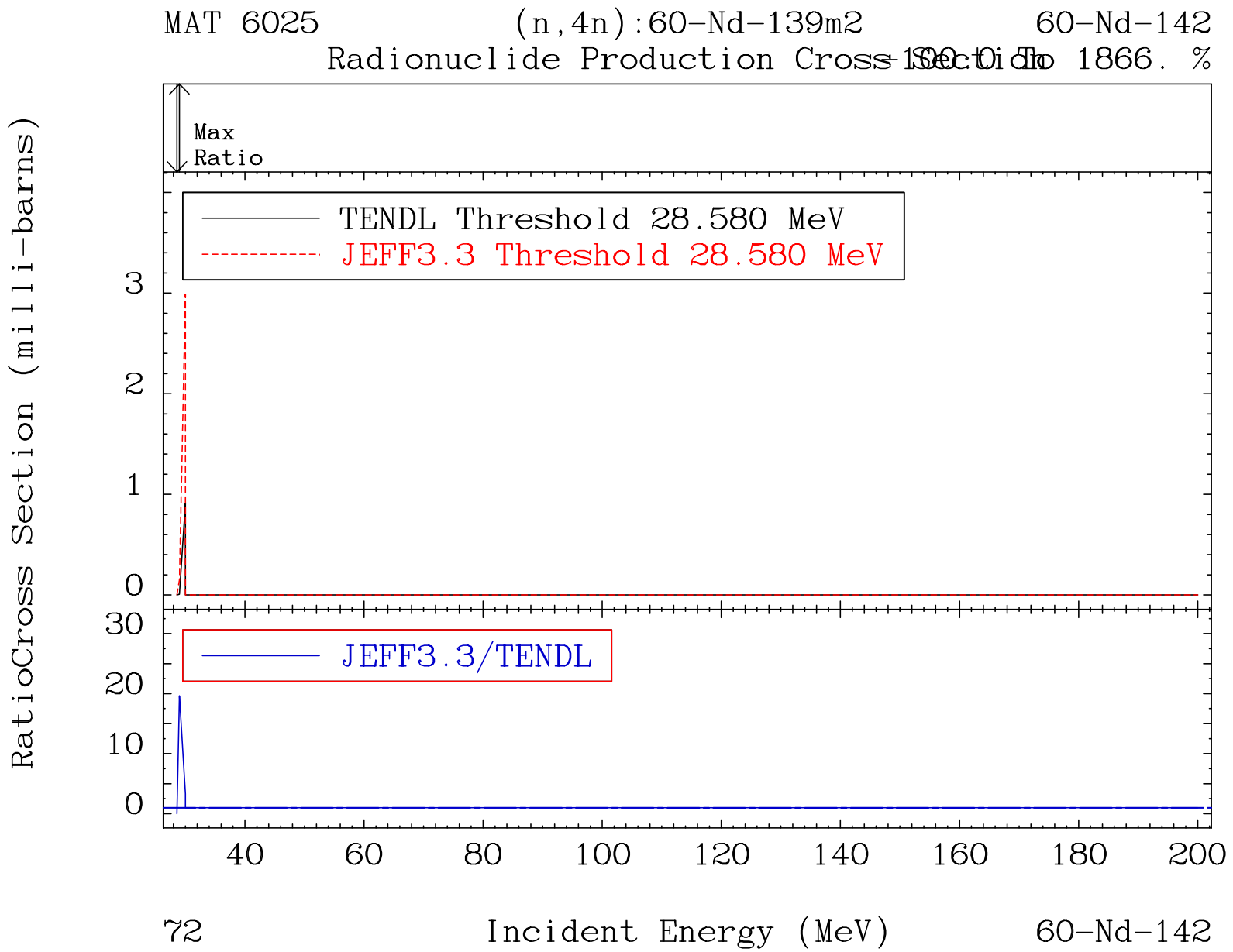

MAT 6025
(n,2n) α:58-Ce-137g
60-Nd-142
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.602 MeV
JEFF3.3 Threshold 10.602 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^3
10^0
10^-3
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
60-Nd-142

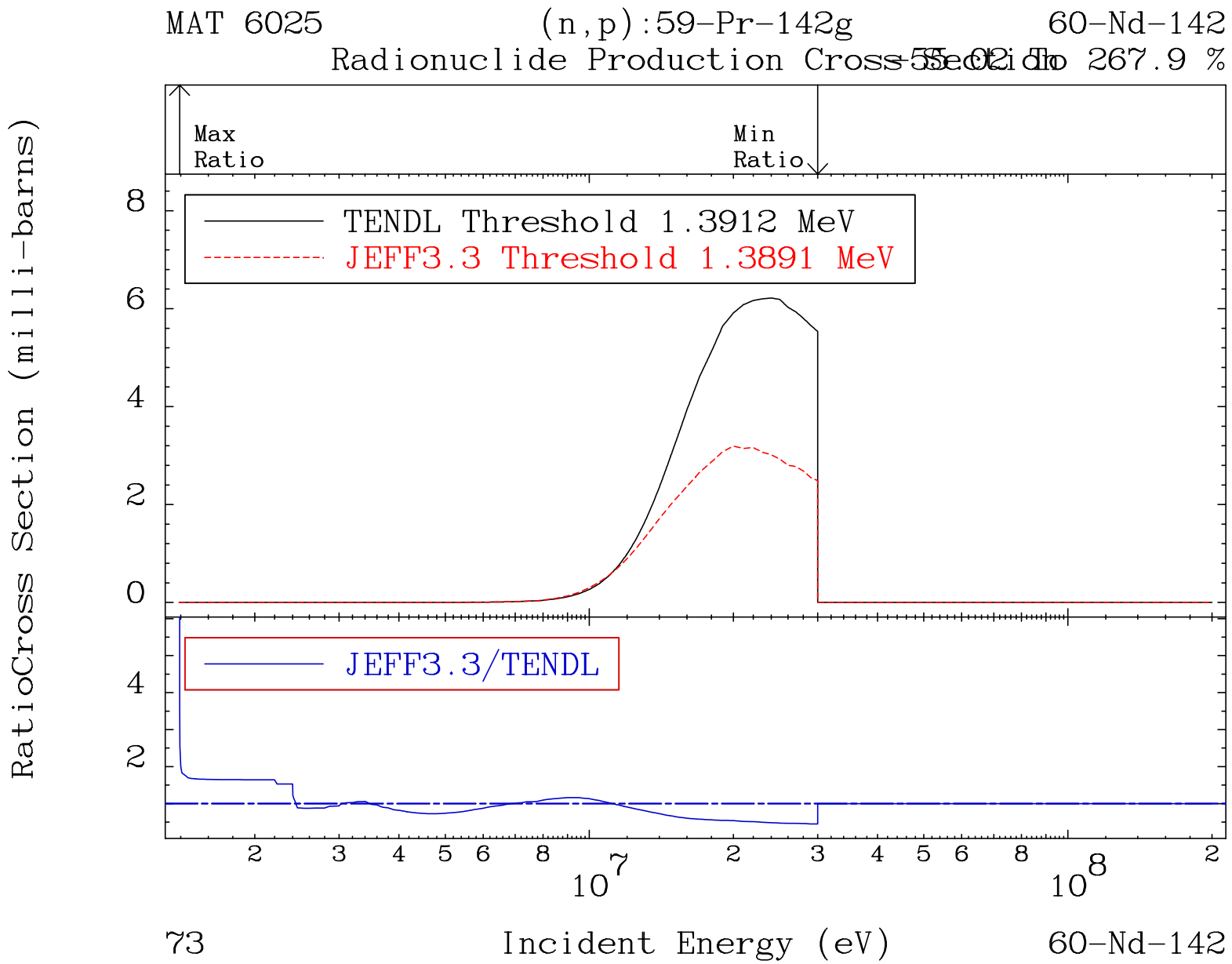

MAT 6025
(n,2n) α:58-Ce-137m2
60-Nd-142
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.858 MeV
JEFF3.3 Threshold 14.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
4
3
2
1
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
68
Incident Energy (eV)
60-Nd-142

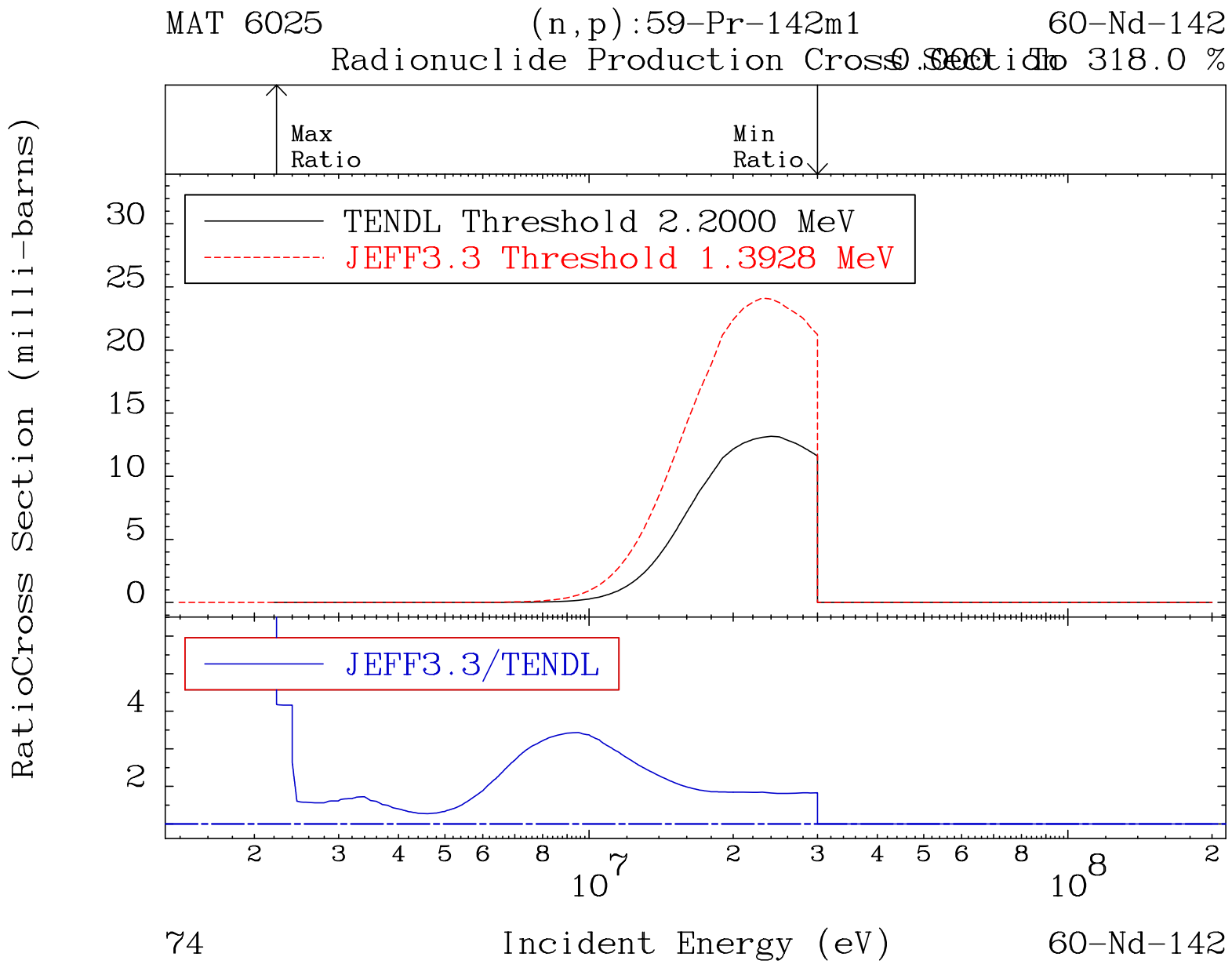

MAT 6025 (n,n') He-3:58-Ce-139g 60-Nd-142
Radionuclide Production Cross Section To 176.9 %
Min Ratio
Max Ratio
TENDL Threshold 14.023 MeV
JEFF3.3 Threshold 14.030 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
69
60-Nd-142

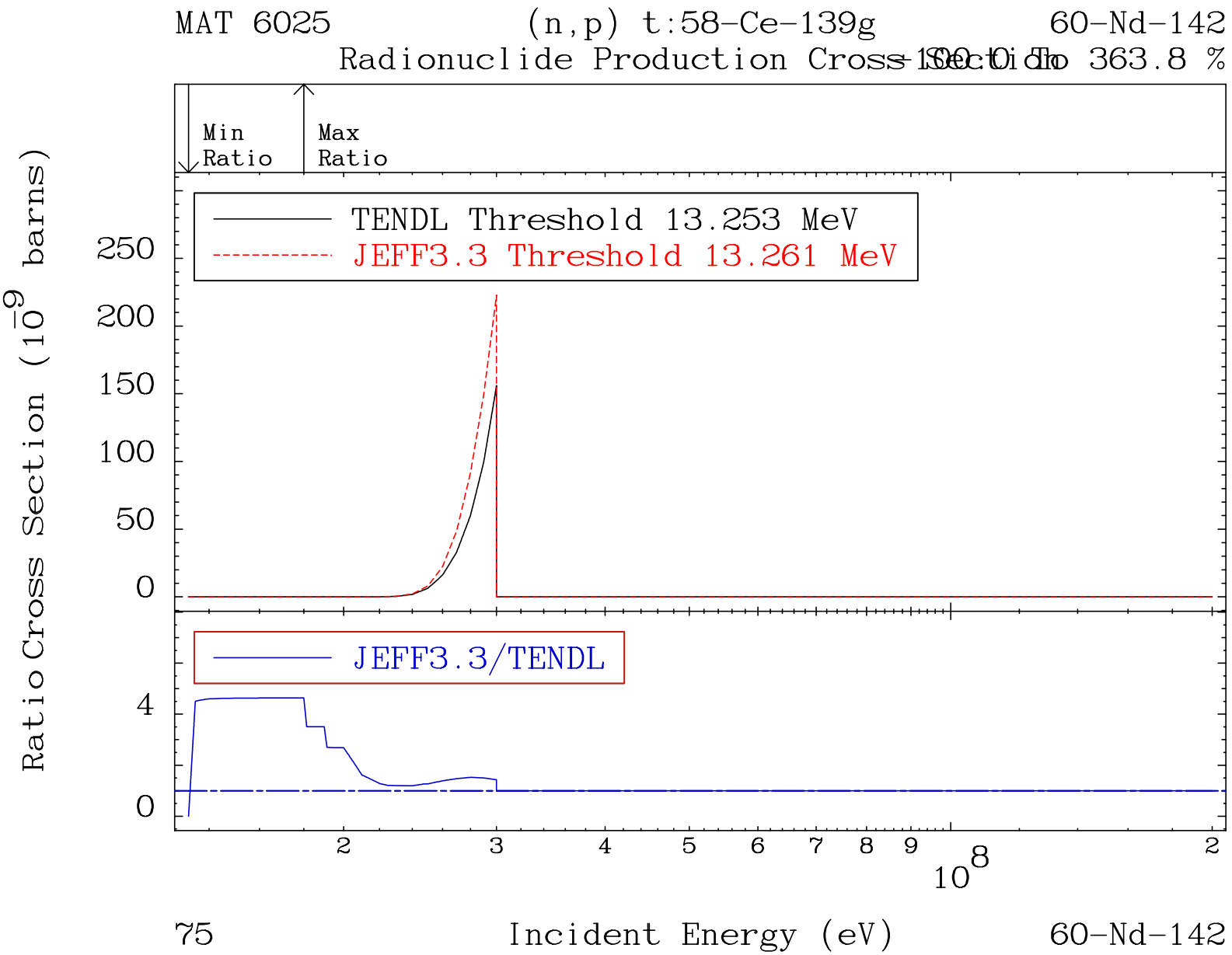

MAT 6025 (n,n') He-3:58-Ce-139m2 60-Nd-142
Radionuclide Production Cross Section To 141.5 %
Max
Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
50
40
30
20
10
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
70
Incident Energy (eV)
60-Nd-142

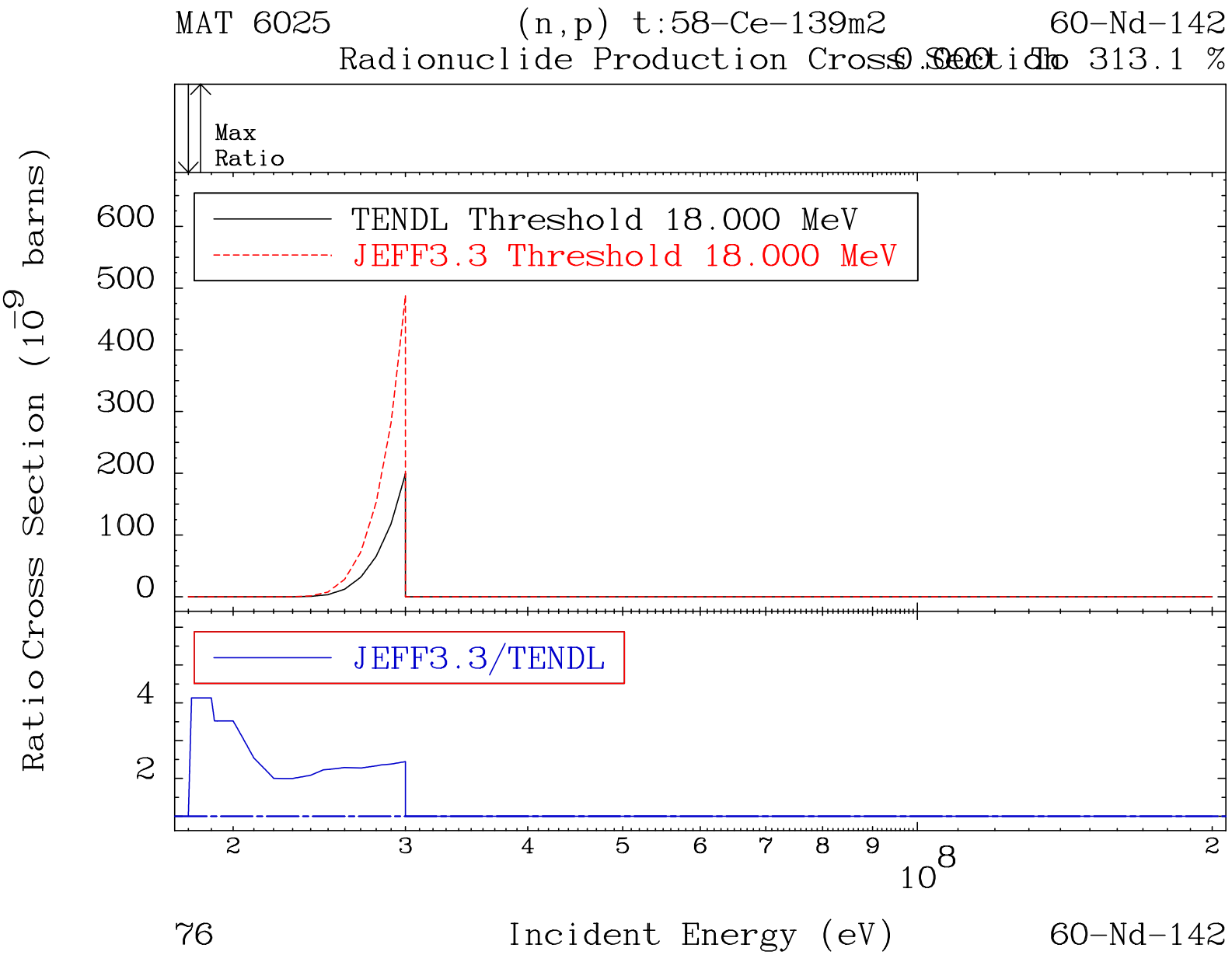

MAT 6025
(n,4n):60-Nd-139g
60-Nd-142
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 28.347 MeV
JEFF3.3 Threshold 28.347 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (MeV)
71
60-Nd-142


MAT 6025
(n,4n):60-Nd-139m2
60-Nd-142
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 28.580 MeV
JEFF3.3 Threshold 28.580 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (MeV)
72
60-Nd-142


MAT 6025
(n,p):59-Pr-142g
60-Nd-142
Radionuclide Production Cross Section To 267.9 %
Max Ratio
Min Ratio
TENDL Threshold 1.3912 MeV
JEFF3.3 Threshold 1.3891 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
60-Nd-142


MAT 6025
(n,p):59-Pr-142m1
60-Nd-142
Radionuclide Production Cross Section
0.000 To 318.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.2000 MeV
JEFF3.3 Threshold 1.3928 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
4
2
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
74
Incident Energy (eV)
60-Nd-142


MAT 6025 (n,p) t:58-Ce-139g 60-Nd-142
Radionuclide Production Cross Section To 363.8 %
Min Ratio
Max Ratio
TENDL Threshold 13.253 MeV
JEFF3.3 Threshold 13.261 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
250
200
150
100
50
0
4
0
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
60-Nd-142


MAT 6025
(n,p) t:58-Ce-139m2
60-Nd-142
Radionuclide Production Cross Section
0.000 To 313.1 %
Max
Ratio
TENDL Threshold 18.000 MeV
JEFF3.3 Threshold 18.000 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
600
500
400
300
200
100
0
4
2
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
60-Nd-142