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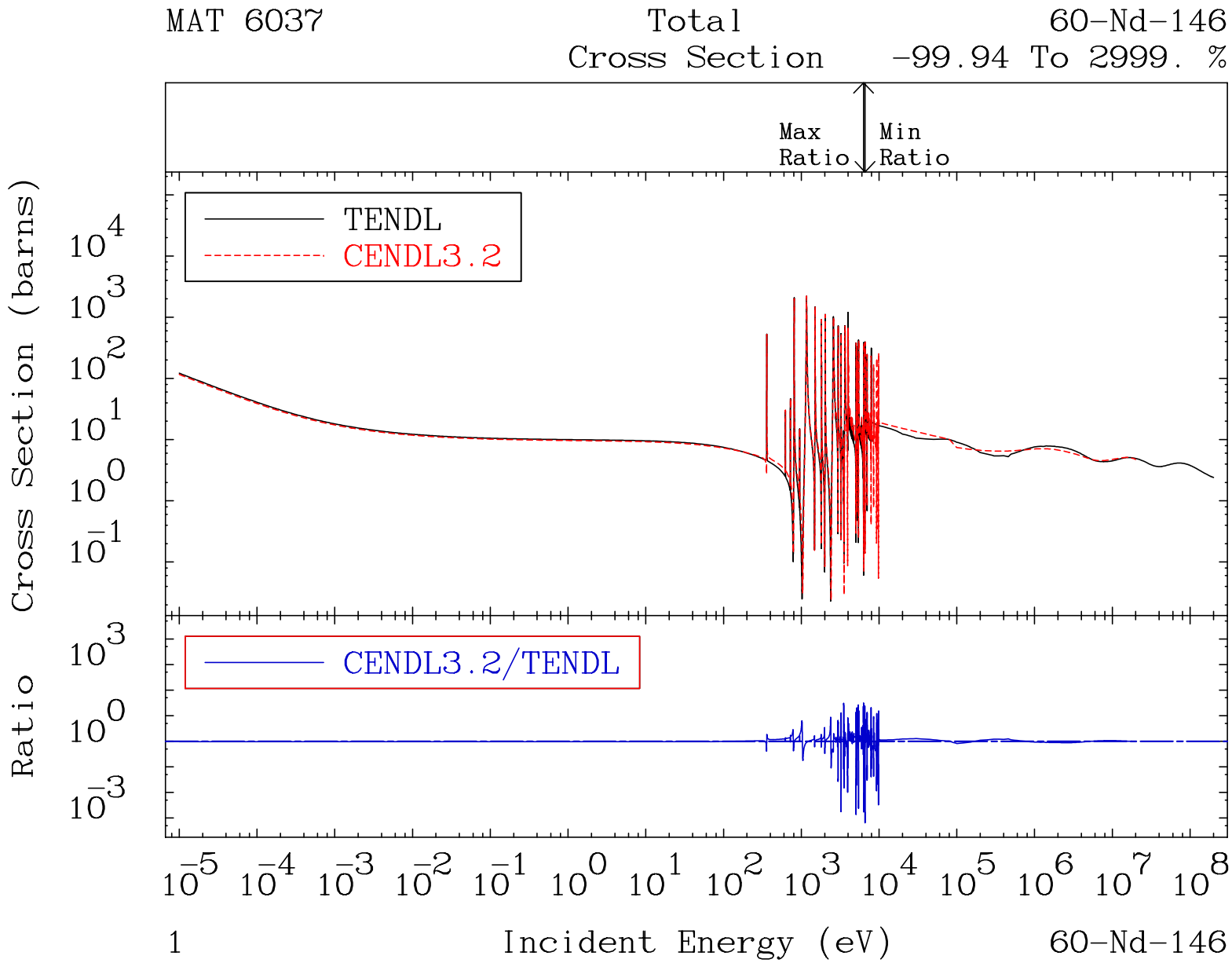
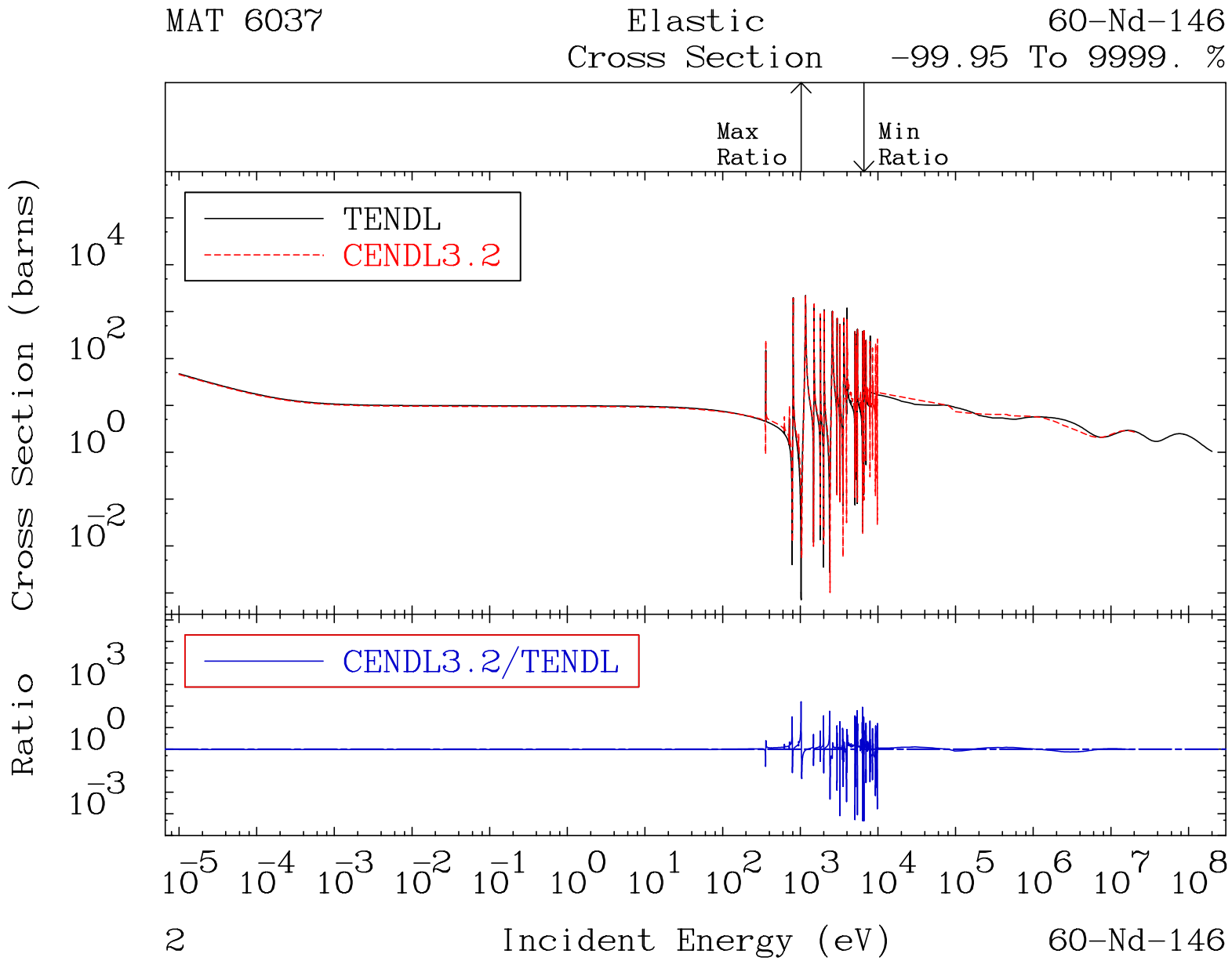
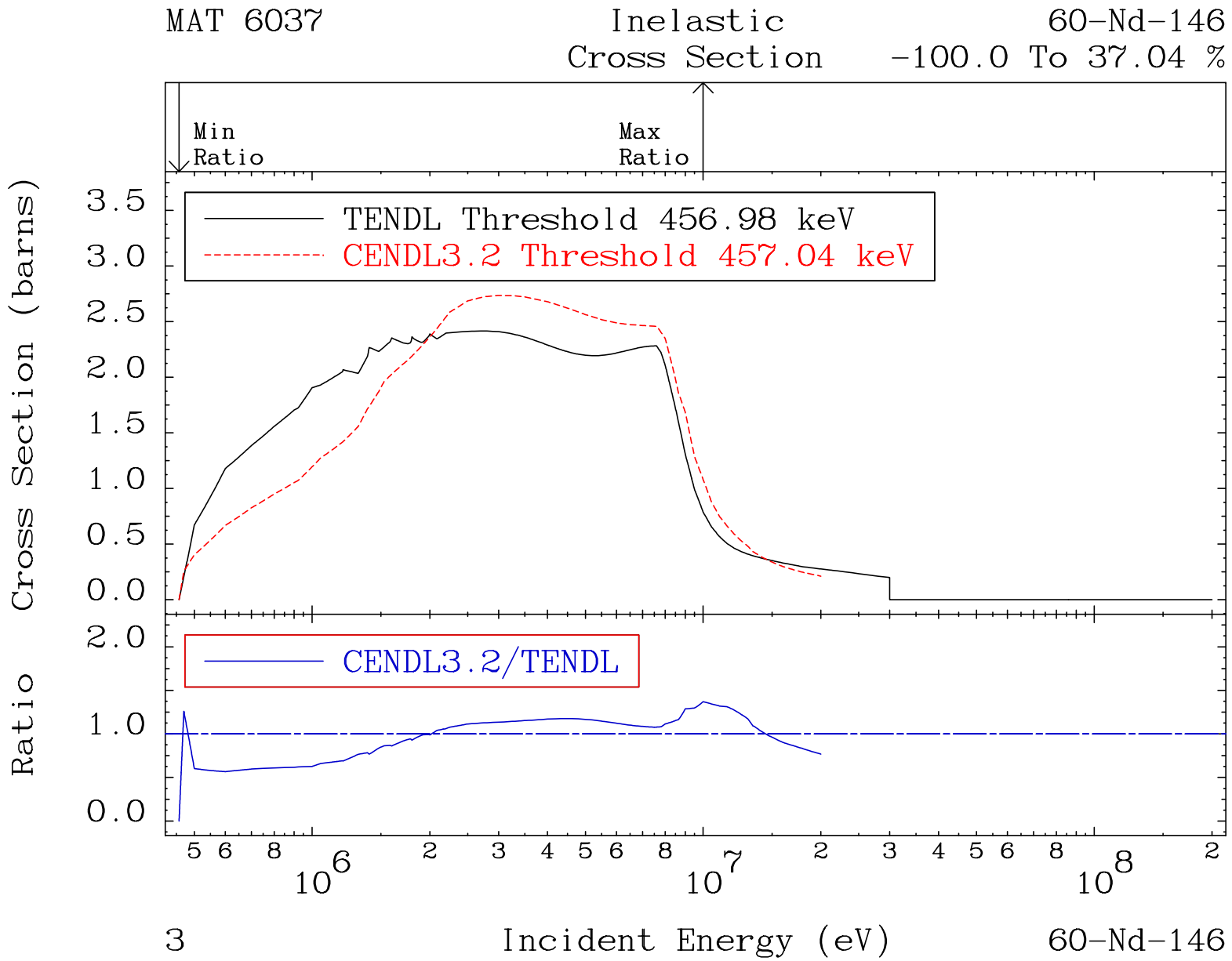
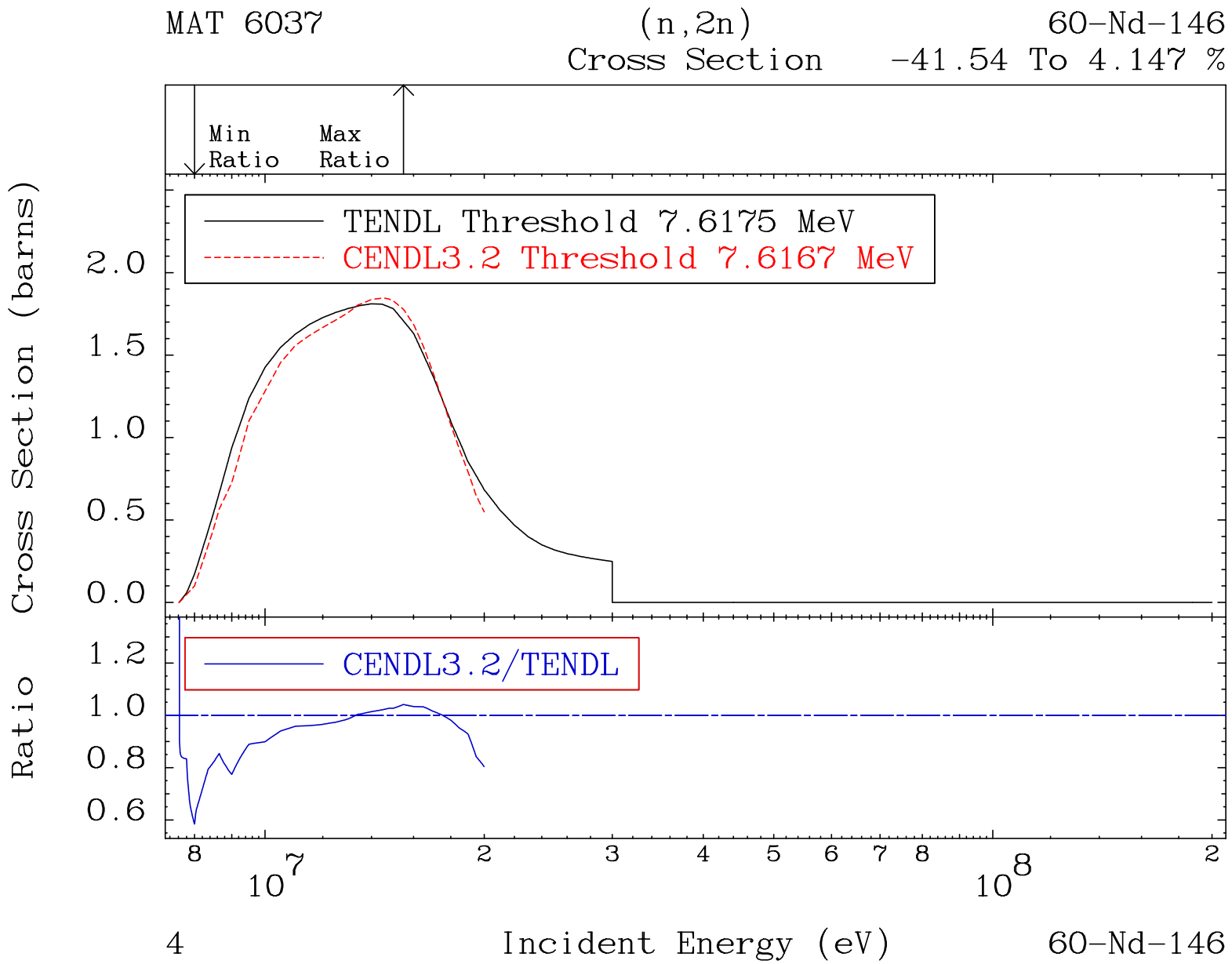
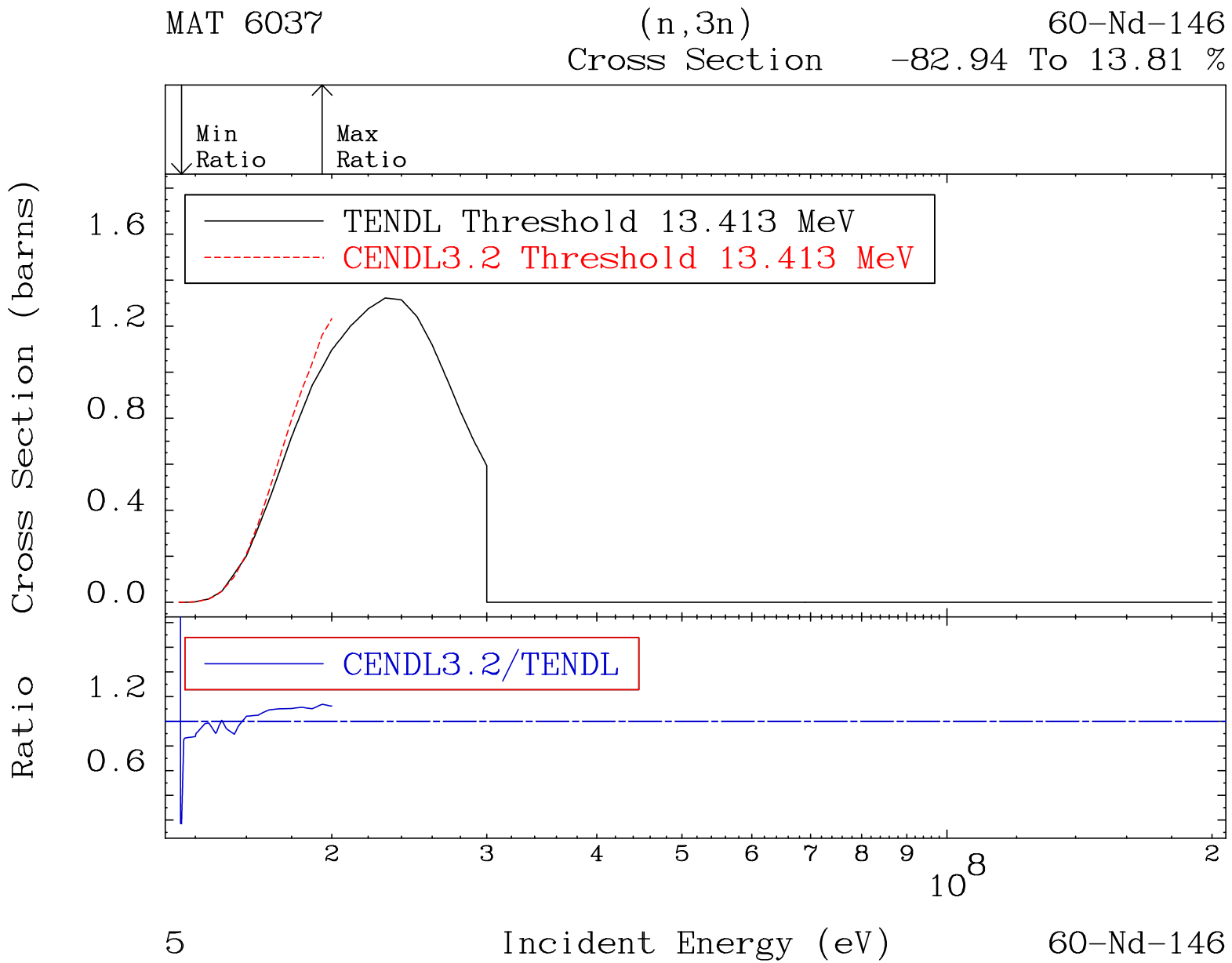
Press Mouse Button to Start

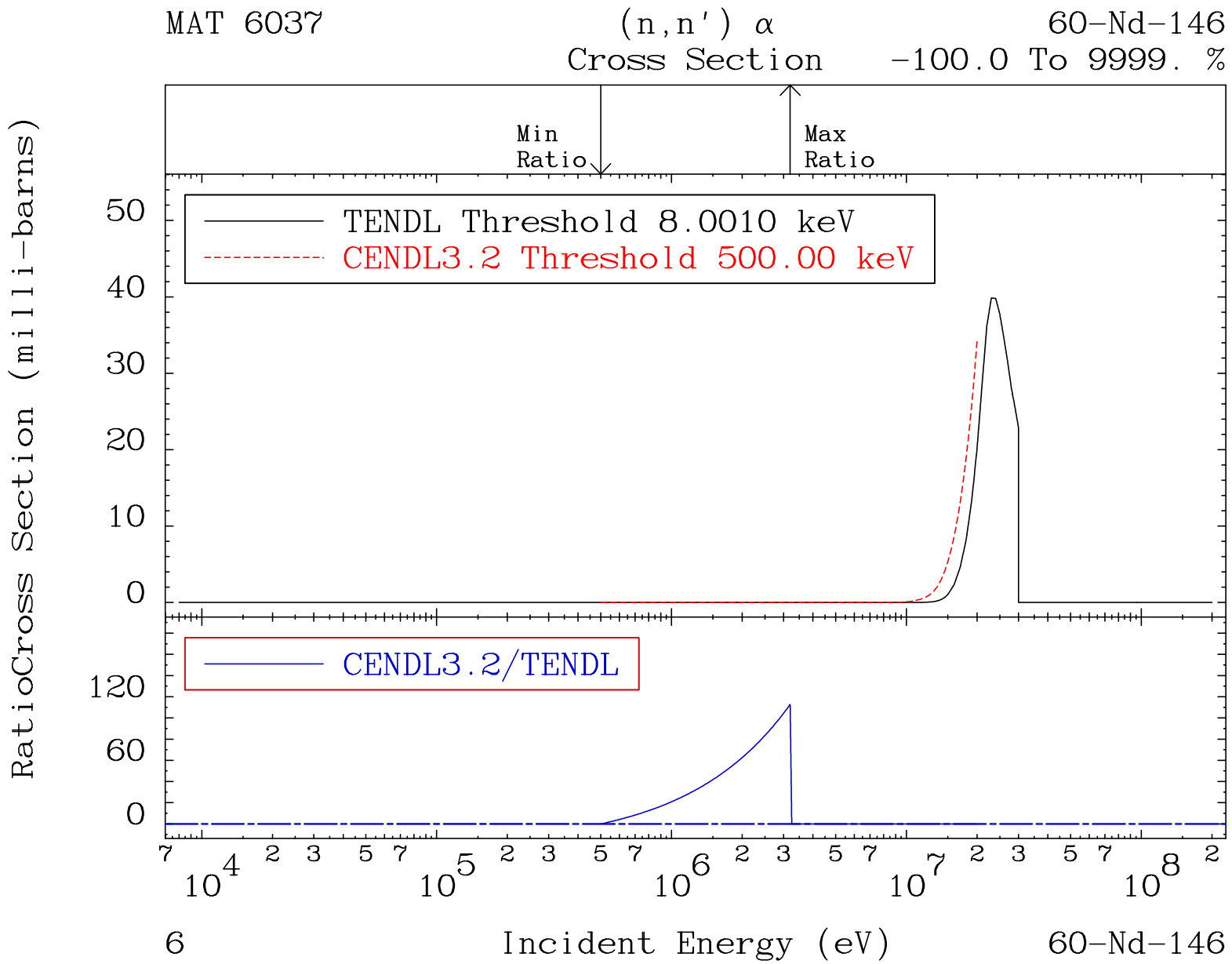

MAT 6037
Total
Cross Section
60-Nd-146
-99.94 To 2999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
60-Nd-146

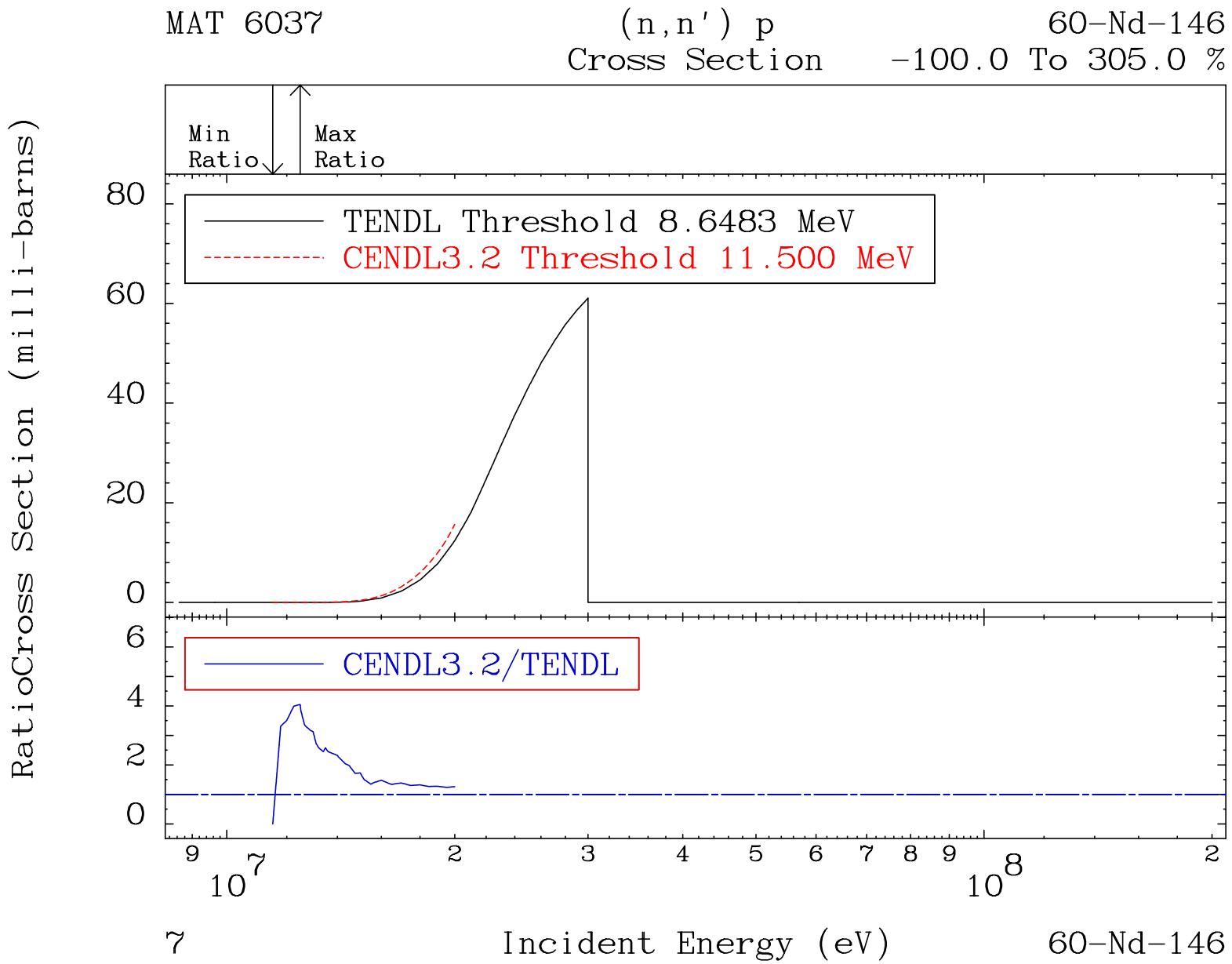

MAT 6037
Elastic
Cross Section
60-Nd-146
-99.95 To 9999. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
60-Nd-146

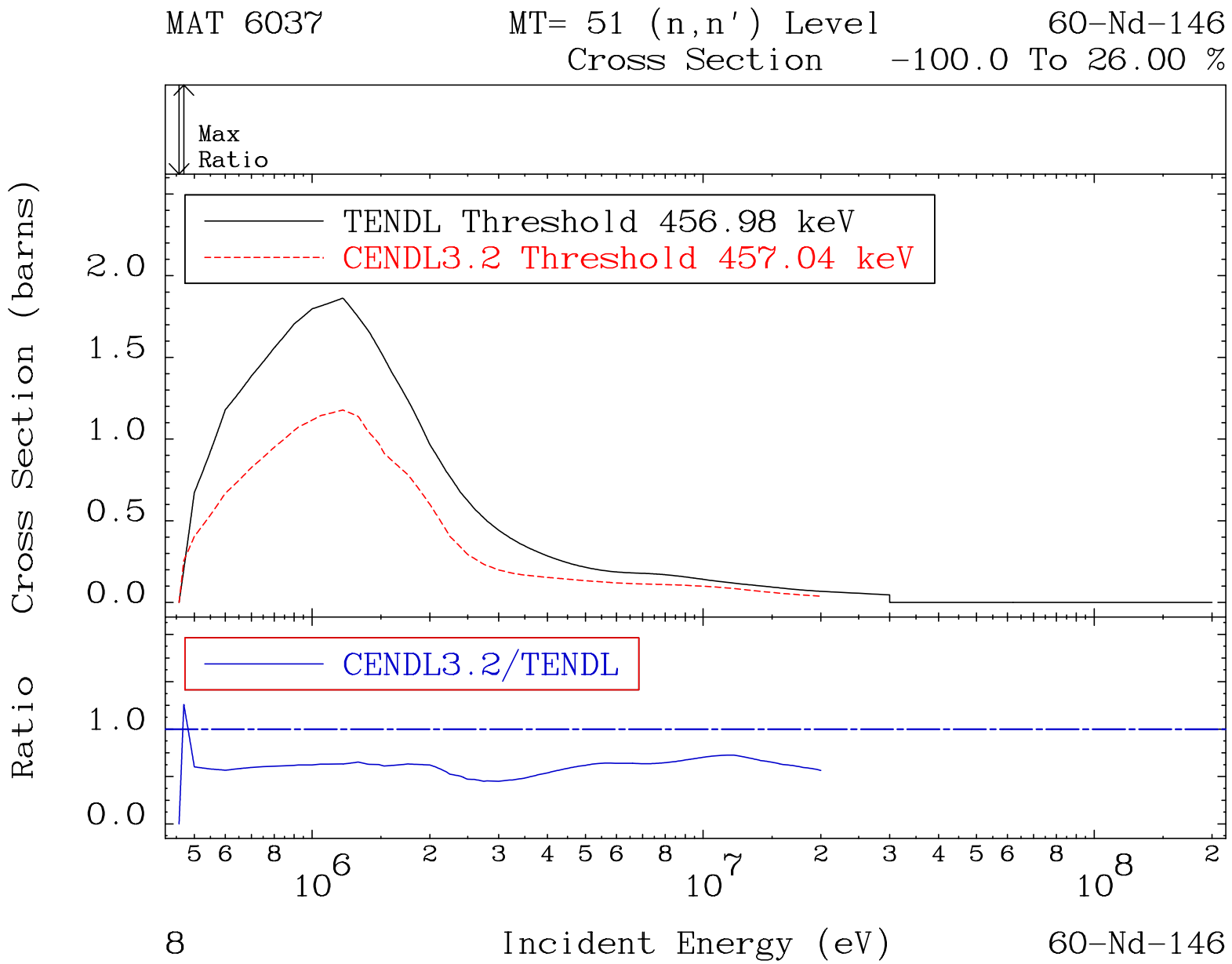

MAT 6037
Inelastic
Cross Section
60-Nd-146
-100.0 To 37.04 %
Min
Ratio
Max
Ratio
TENDL Threshold 456.98 keV
CENDL3.2 Threshold 457.04 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
60-Nd-146

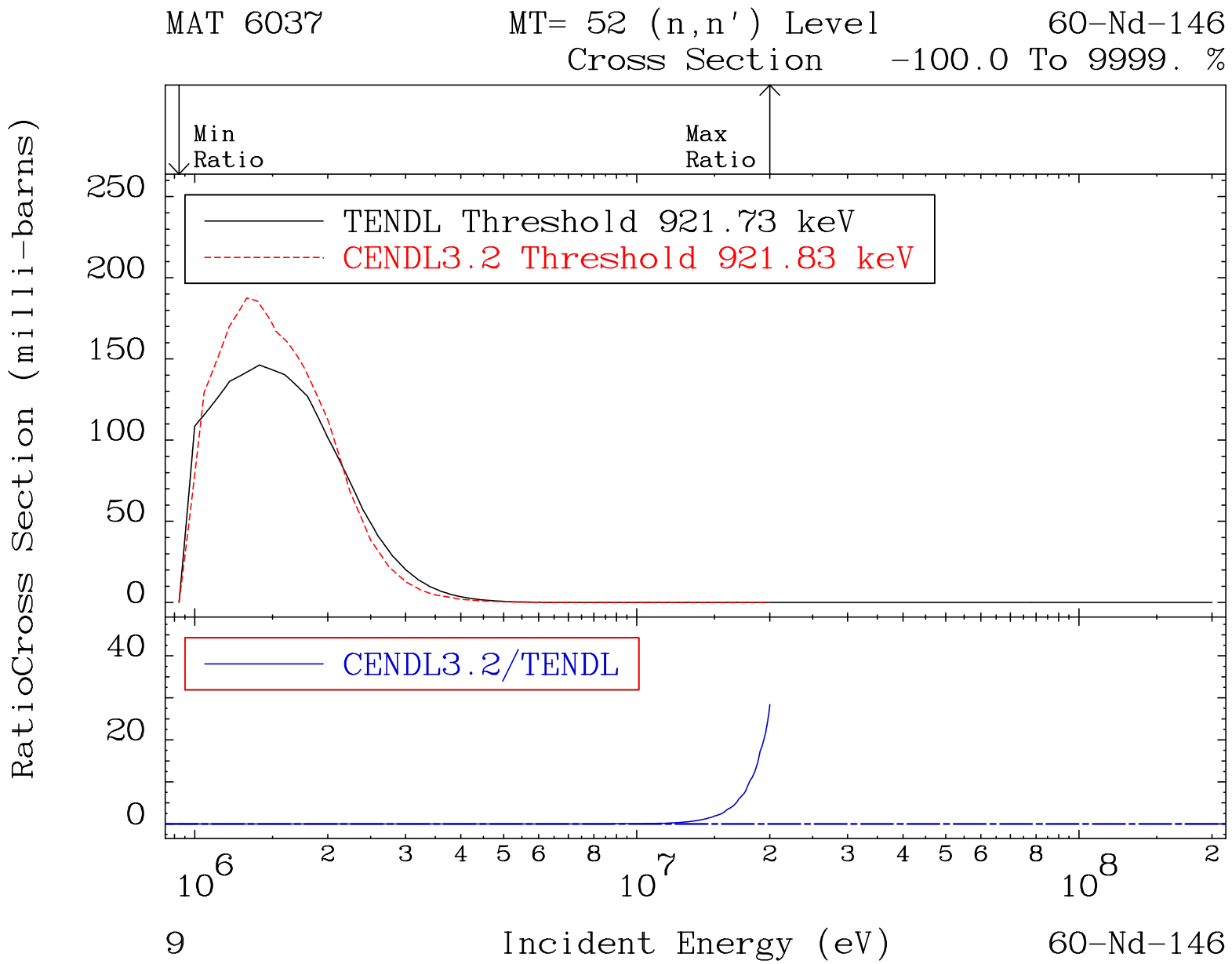

MAT 6037
(n,2n)
Cross Section
60-Nd-146
-41.54 To 4.147 %
Min Ratio
Max Ratio
TENDL Threshold 7.6175 MeV
CENDL3.2 Threshold 7.6167 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
4
60-Nd-146

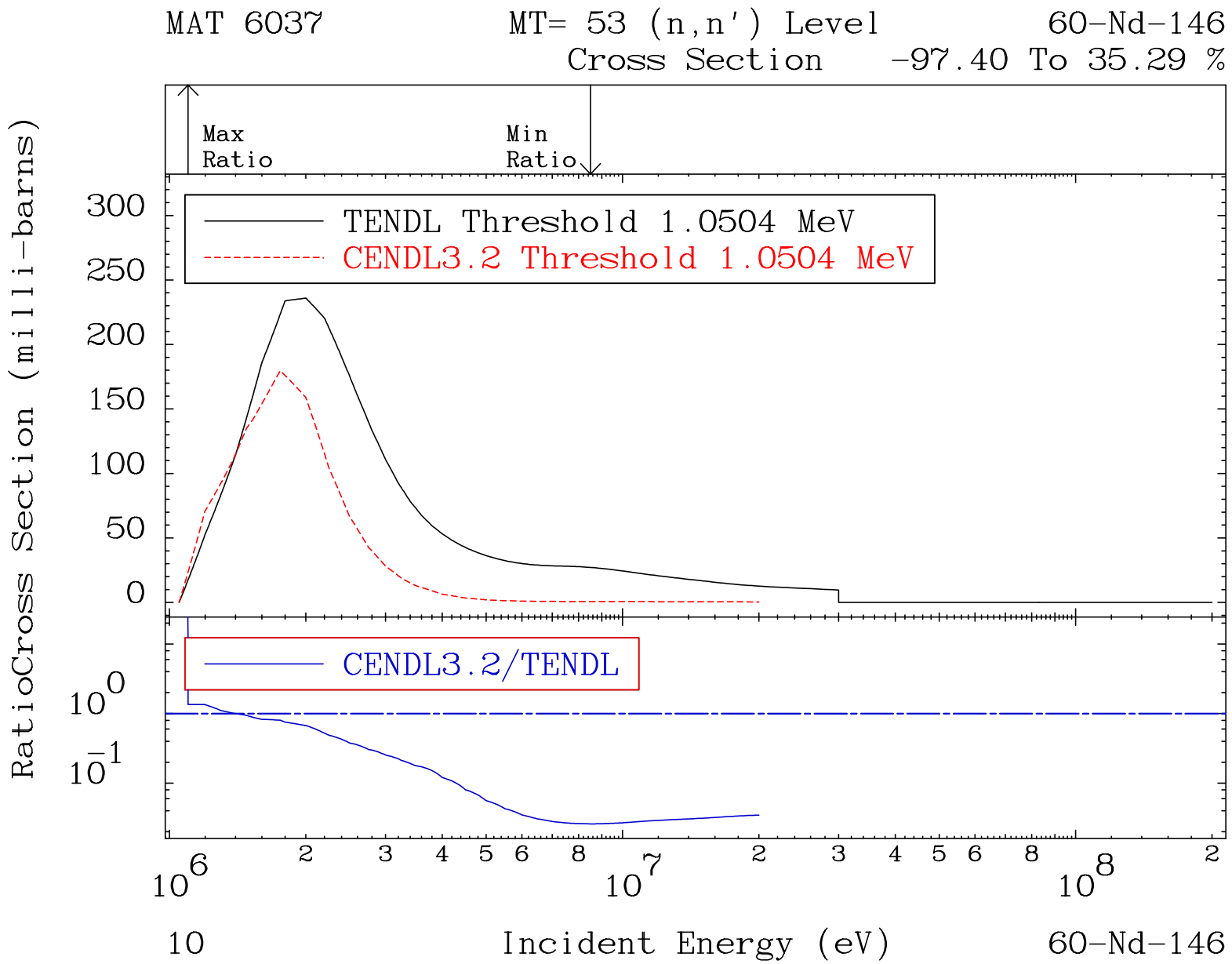

MAT 6037
(n,3n)
Cross Section
60-Nd-146
-82.94 To 13.81 %
Min Ratio
Max Ratio
TENDL Threshold 13.413 MeV
CENDL3.2 Threshold 13.413 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
5
60-Nd-146

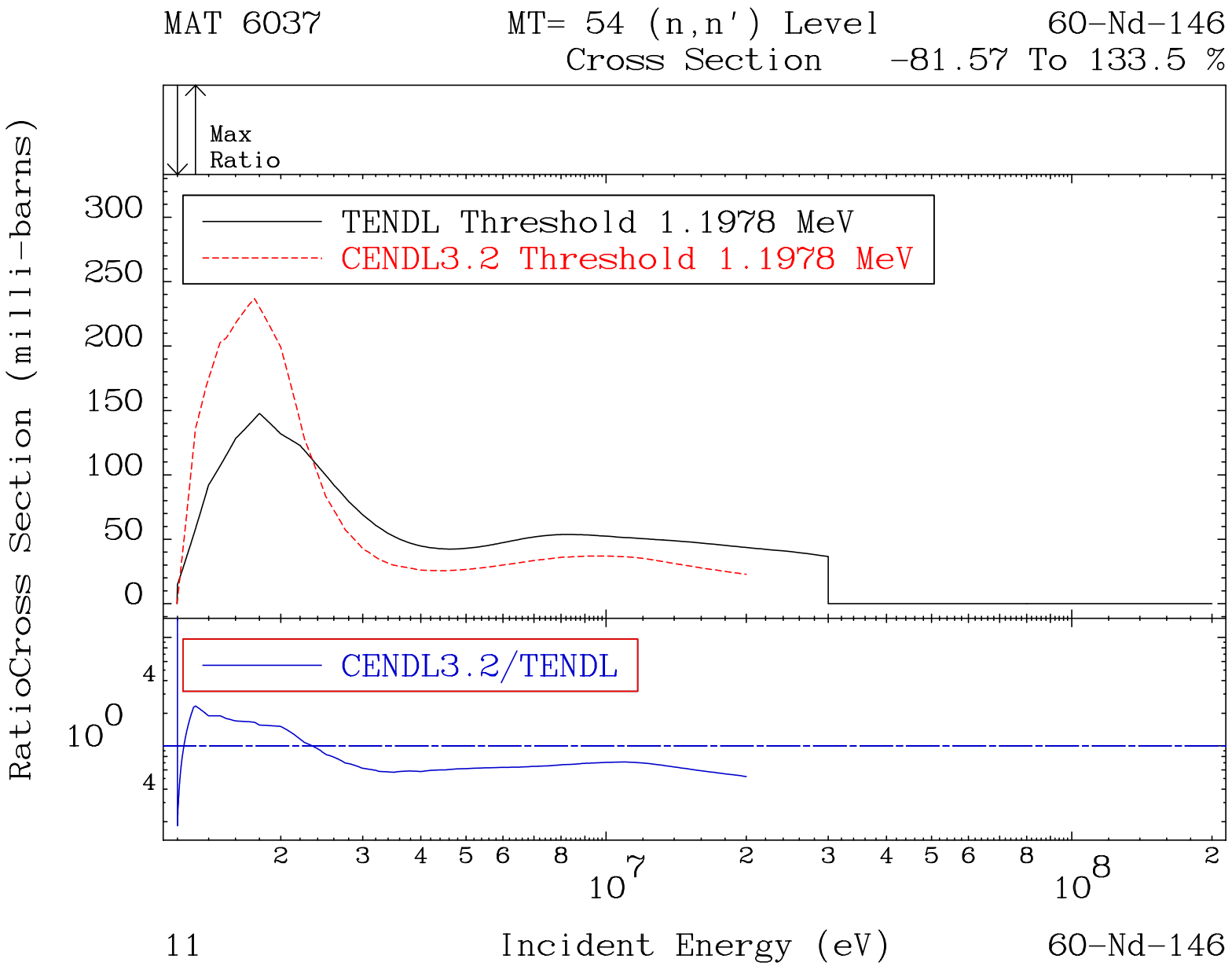

MAT 6037
(n,n') α
Cross Section
60-Nd-146
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.0010 keV
CENDL3.2 Threshold 500.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
120
60
0
7 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
6
Incident Energy (eV)
60-Nd-146

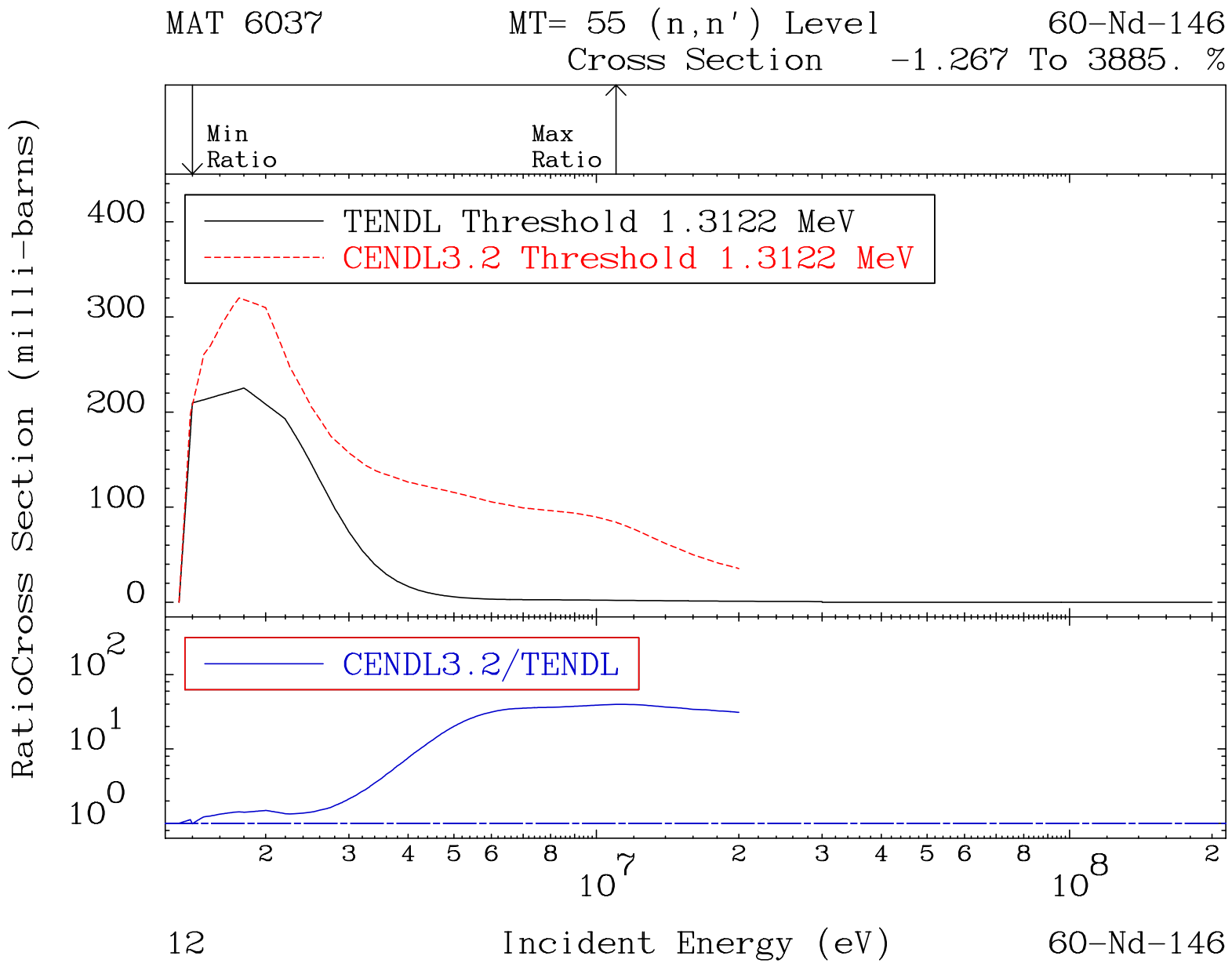

MAT 6037
(n,n') p
Cross Section
60-Nd-146
-100.0 To 305.0 %
Min Ratio
Max Ratio
TENDL Threshold 8.6483 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
60-Nd-146

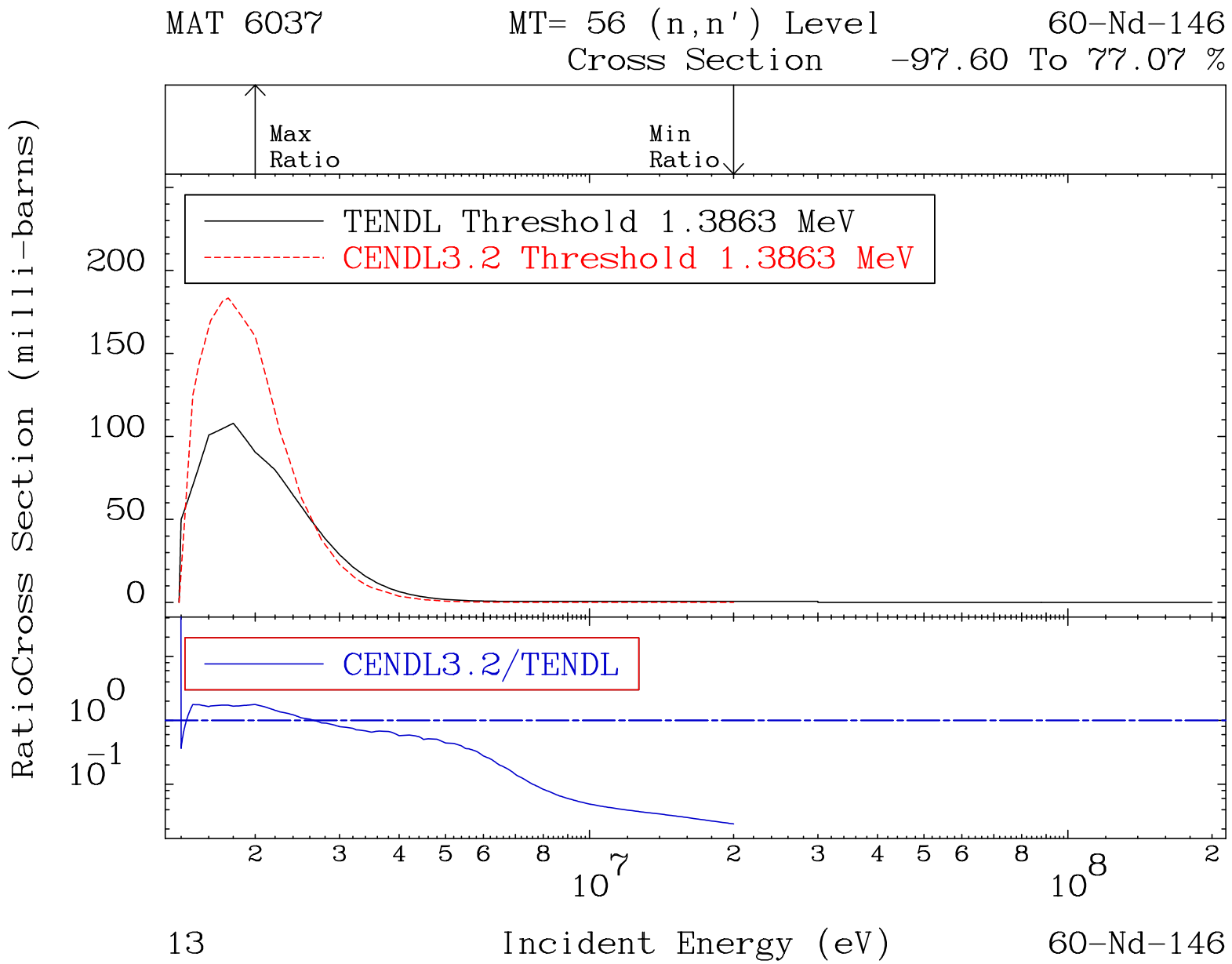

MAT 6037
MT= 51 (n,n') Level
60-Nd-146
Cross Section
-100.0 To 26.00 %
Max
Ratio
TENDL Threshold 456.98 keV
CENDL3.2 Threshold 457.04 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
60-Nd-146

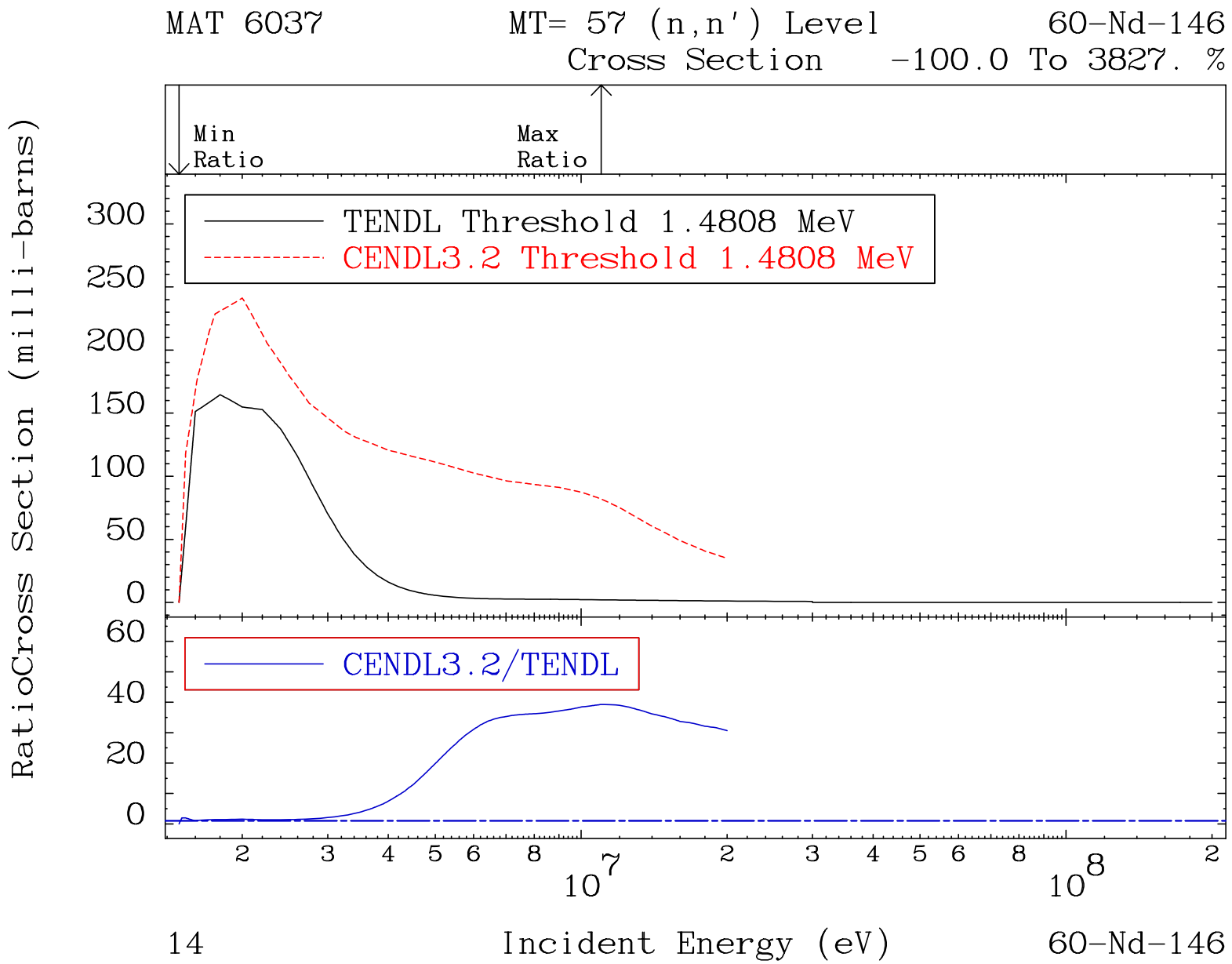

MAT 6037
MT= 52 (n,n') Level
60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 921.73 keV
CENDL3.2 Threshold 921.83 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
40
20
0
10^6
10^7
10^8
2 3 4 5 6 8
9
Incident Energy (eV)
60-Nd-146

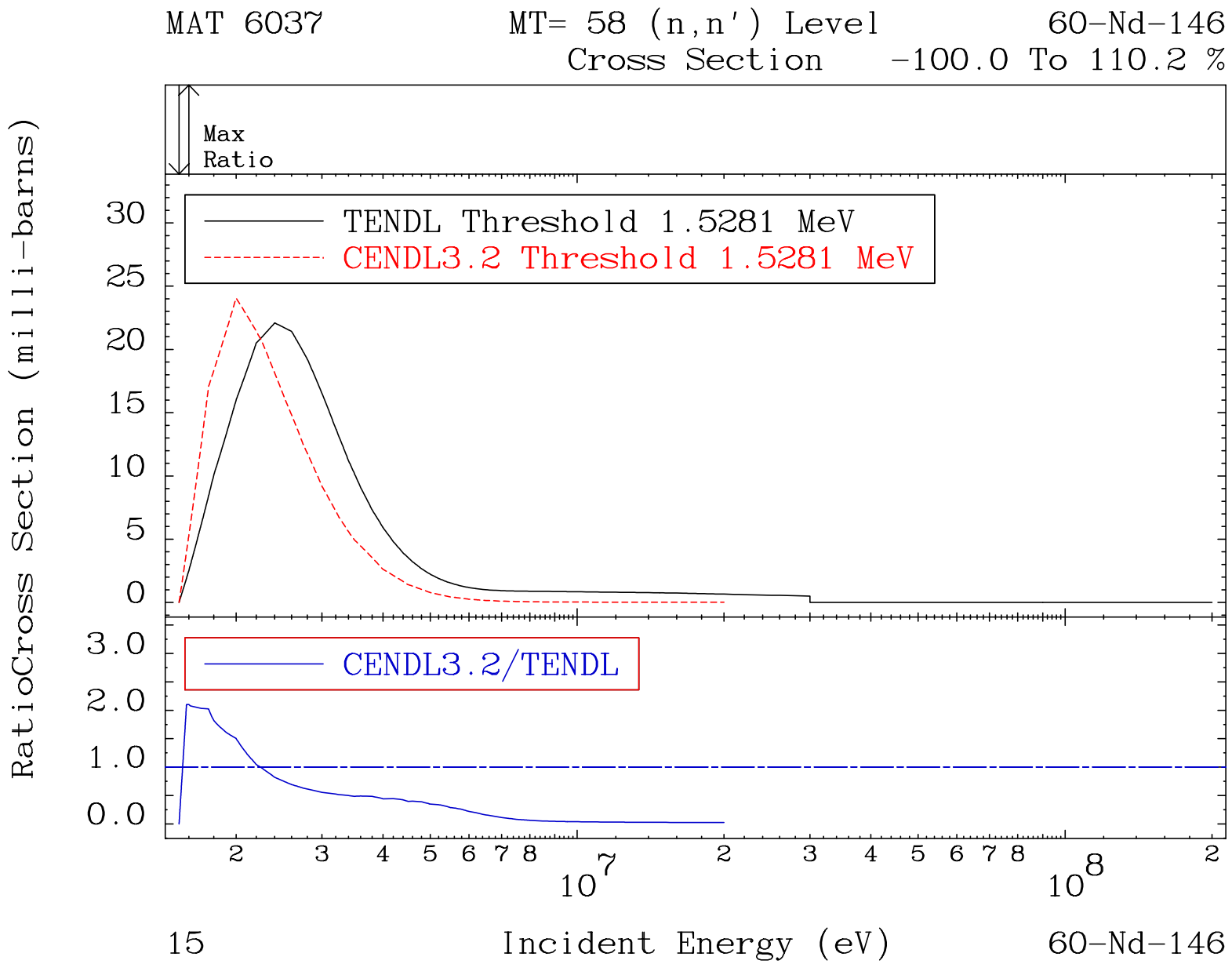

MAT 6037
MT= 53 (n,n') Level
Cross Section
60-Nd-146
-97.40 To 35.29 %
Max Ratio
Min Ratio
TENDL Threshold 1.0504 MeV
CENDL3.2 Threshold 1.0504 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^{0}
10^{-1}
10^{6}
10^{7}
10^{8}
2 3 4 5 6 8
10
Incident Energy (eV)
60-Nd-146

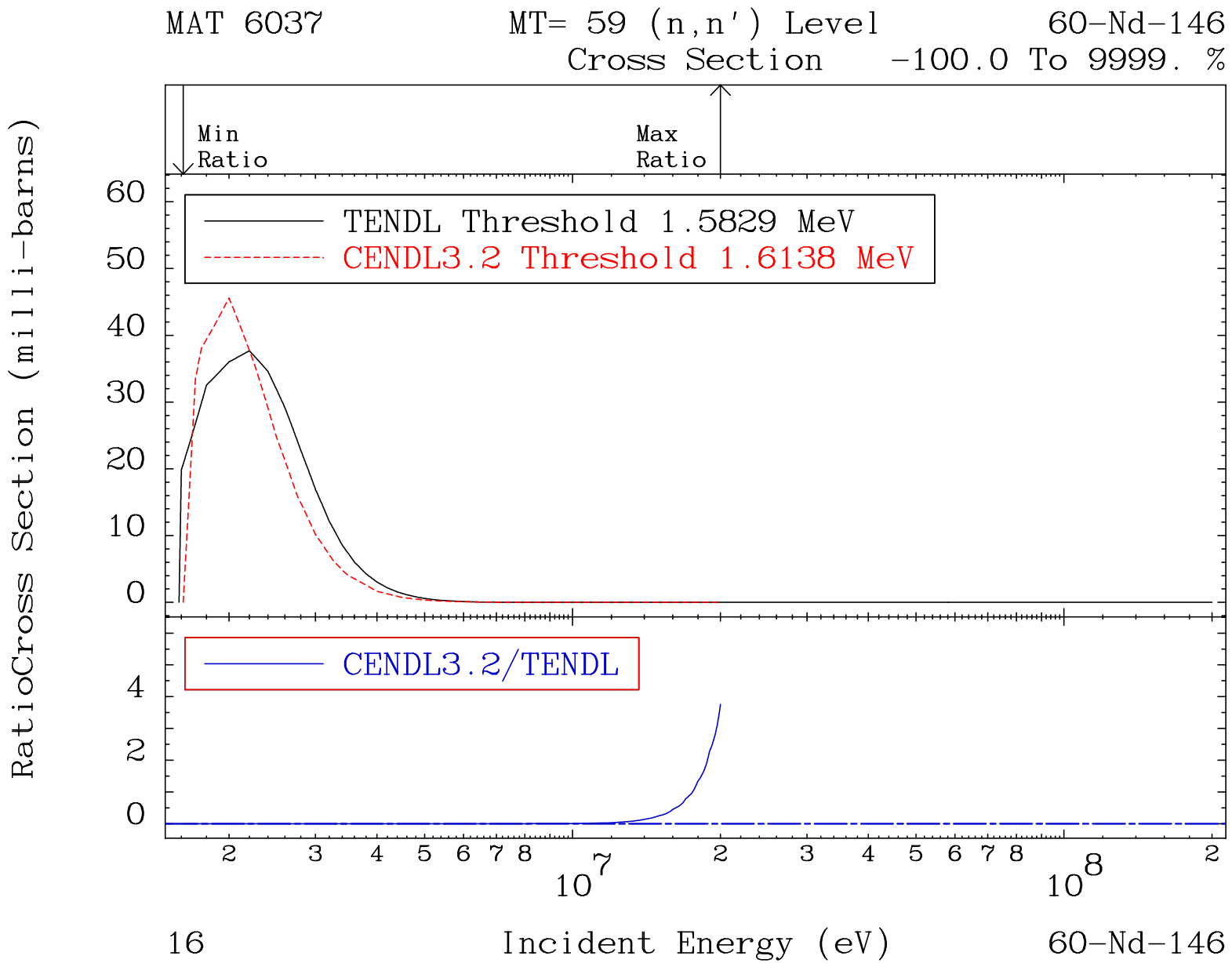

MAT 6037
MT= 54 (n,n') Level
60-Nd-146
Cross Section -81.57 To 133.5 %
Max
Ratio
TENDL Threshold 1.1978 MeV
CENDL3.2 Threshold 1.1978 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
10^0
4
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
60-Nd-146

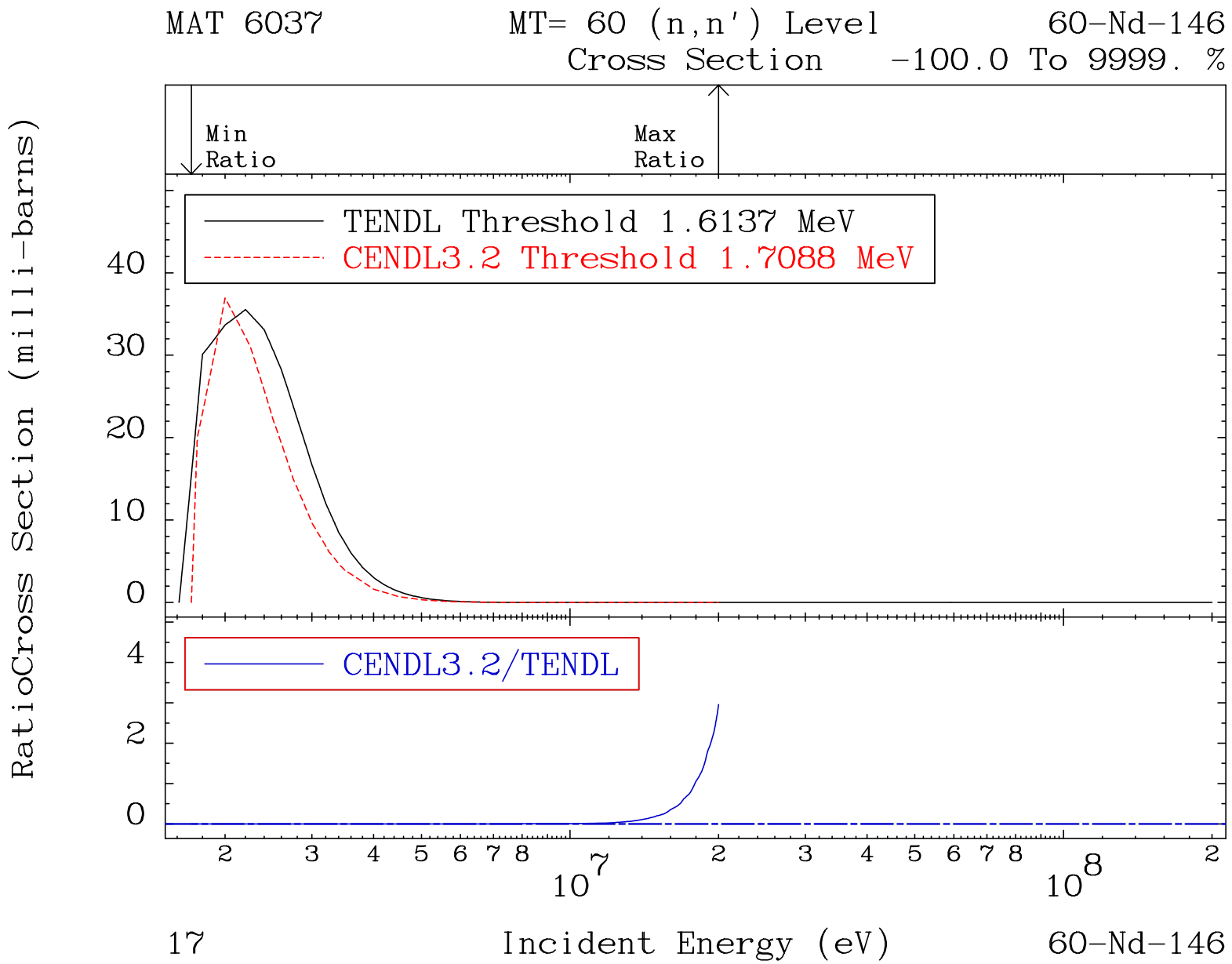

MAT 6037
MT= 55 (n,n') Level
60-Nd-146
Cross Section -1.267 To 3885. %
Min Ratio
Max Ratio
TENDL Threshold 1.3122 MeV
CENDL3.2 Threshold 1.3122 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^2
10^1
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
60-Nd-146

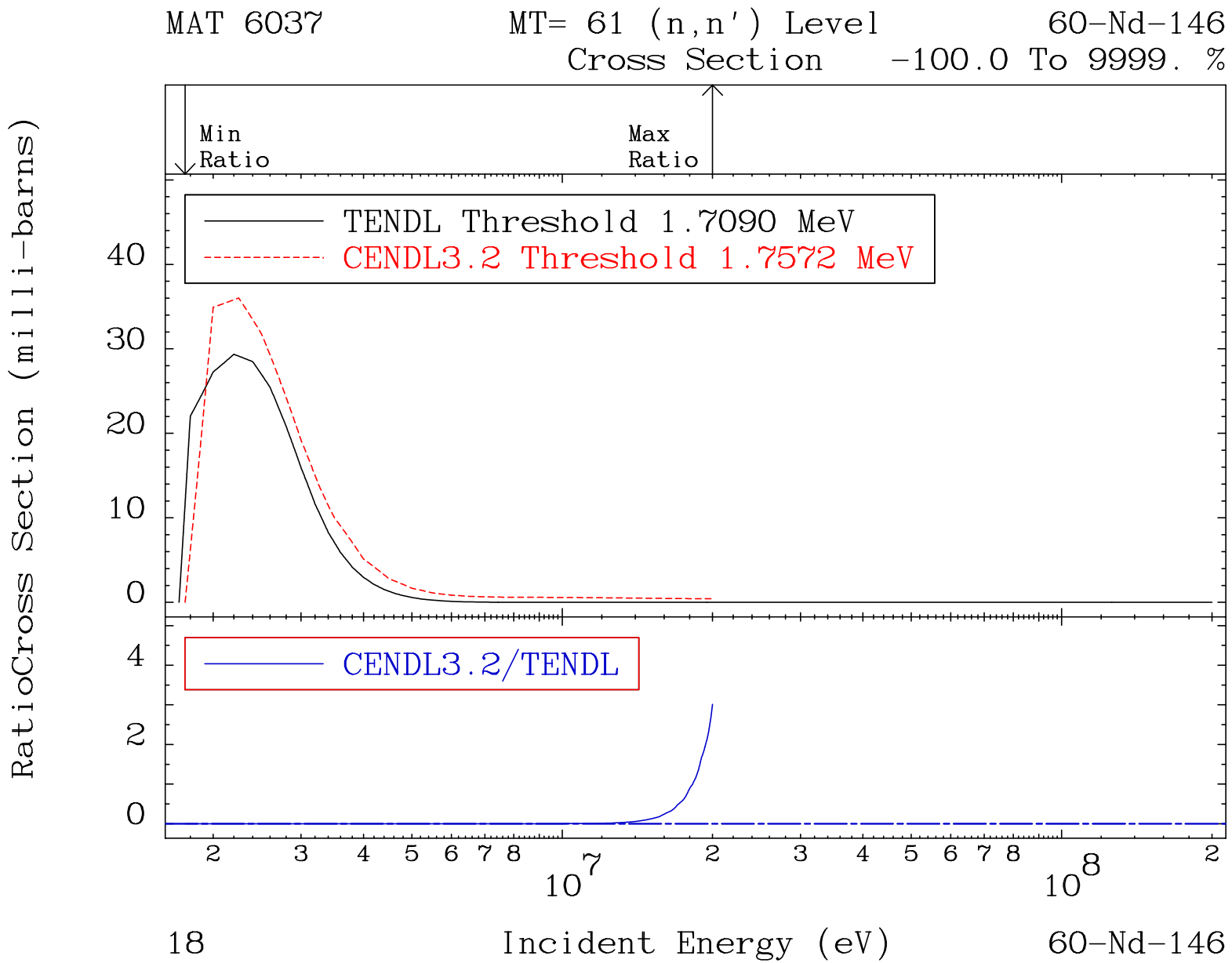

MAT 6037
MT= 56 (n,n') Level
60-Nd-146
Cross Section -97.60 To 77.07 %
Max Ratio
Min Ratio
TENDL Threshold 1.3863 MeV
CENDL3.2 Threshold 1.3863 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^0
10^-1
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
60-Nd-146

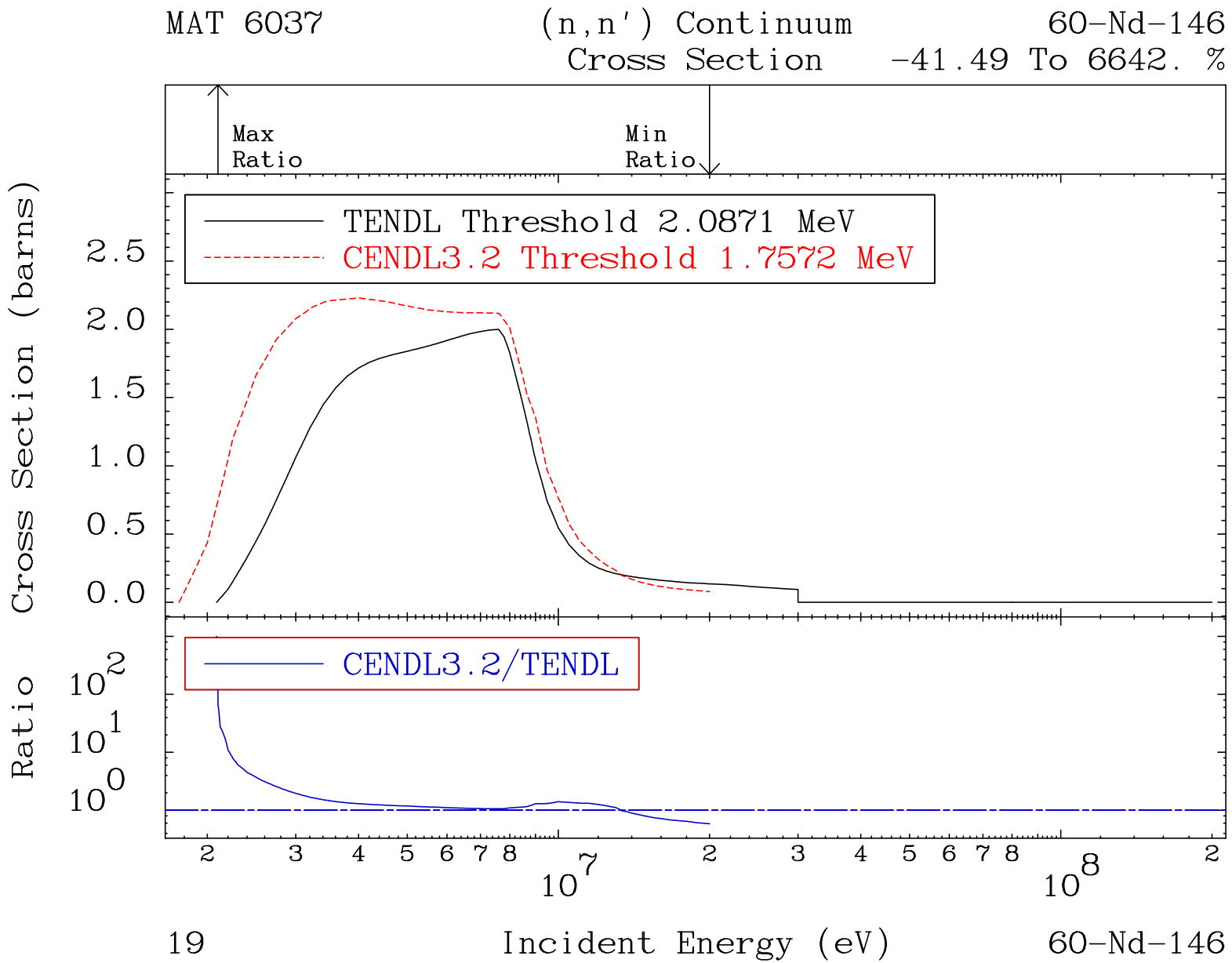

MAT 6037
MT= 57 (n,n') Level
60-Nd-146
Cross Section -100.0 To 3827. %
Min Ratio
Max Ratio
TENDL Threshold 1.4808 MeV
CENDL3.2 Threshold 1.4808 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
60
40
20
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
60-Nd-146

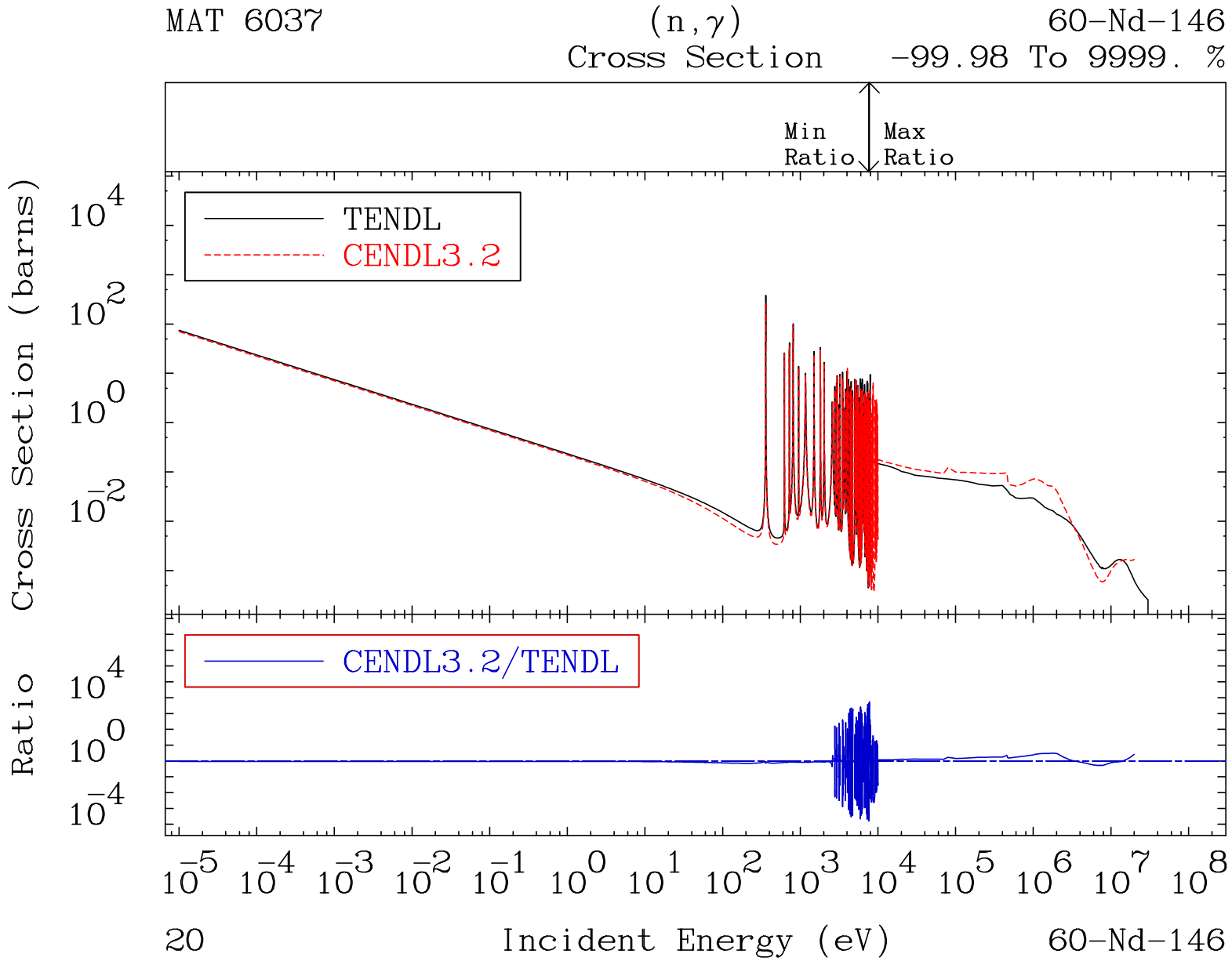

MAT 6037
MT= 58 (n,n') Level
60-Nd-146
Cross Section -100.0 To 110.2 %
Max
Ratio
TENDL Threshold 1.5281 MeV
CENDL3.2 Threshold 1.5281 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
10^8
15
Incident Energy (eV)
60-Nd-146

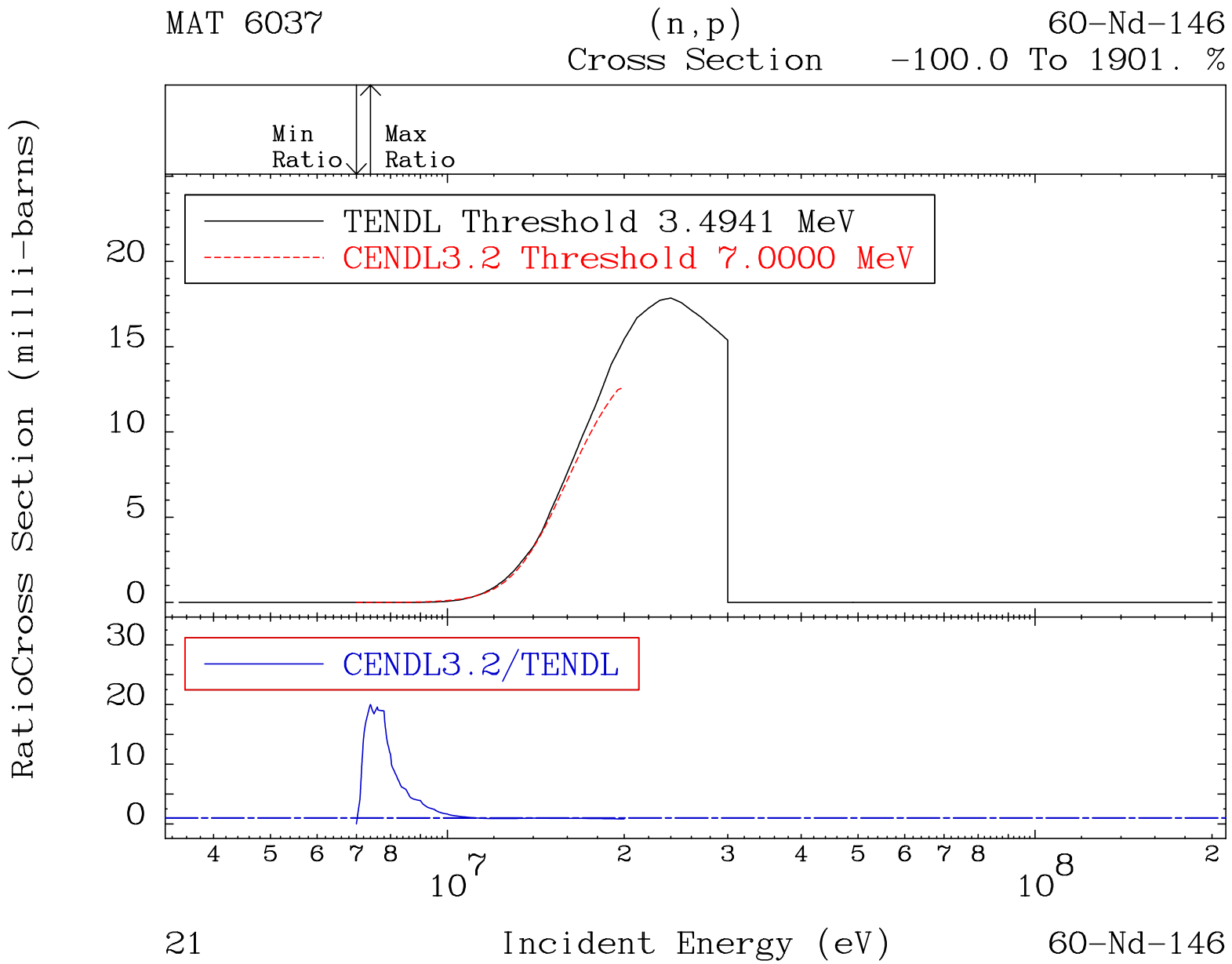

MAT 6037
MT= 59 (n,n') Level
60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5829 MeV
CENDL3.2 Threshold 1.6138 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
60-Nd-146

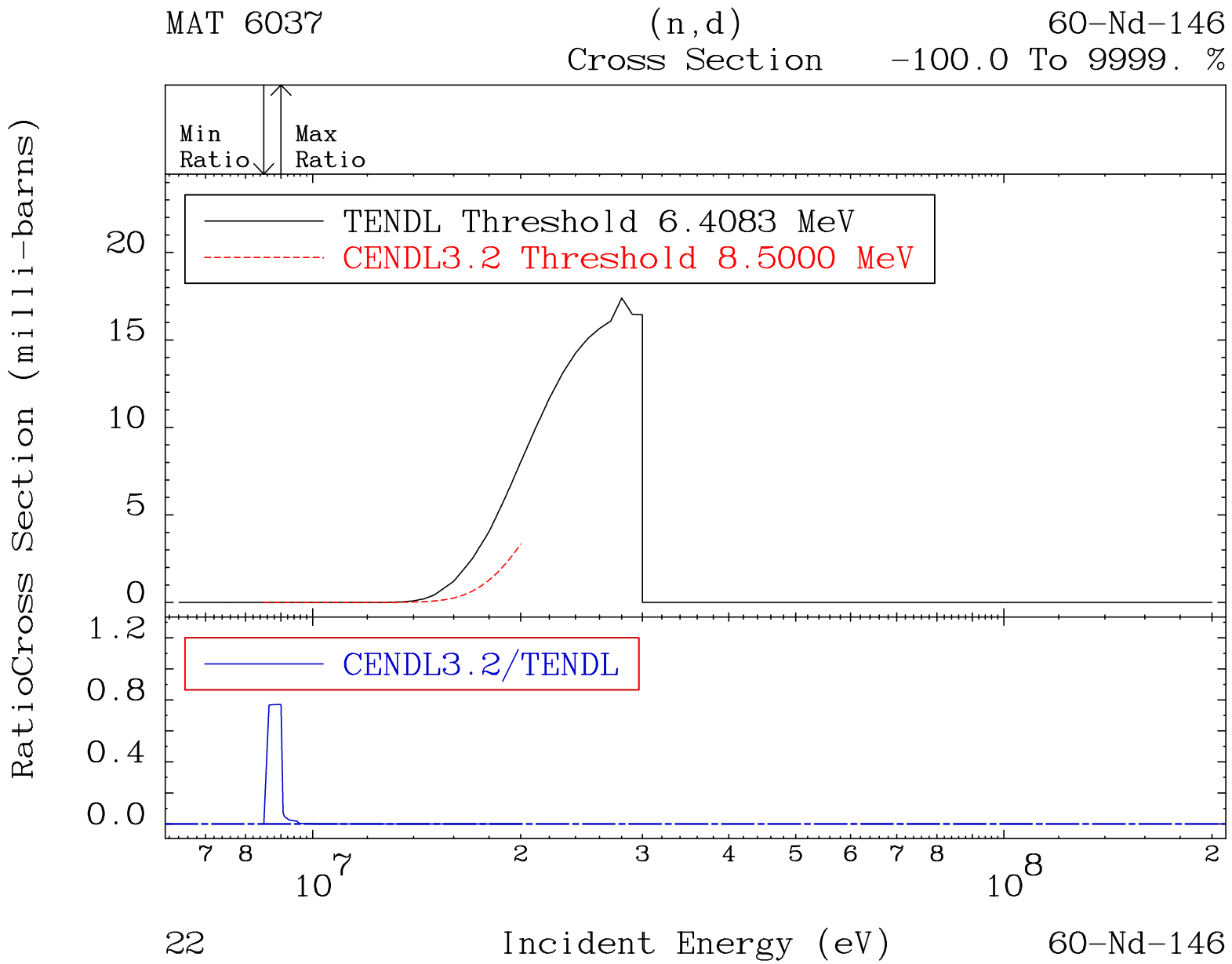

MAT 6037
MT= 60 (n,n') Level
60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6137 MeV
CENDL3.2 Threshold 1.7088 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
60-Nd-146

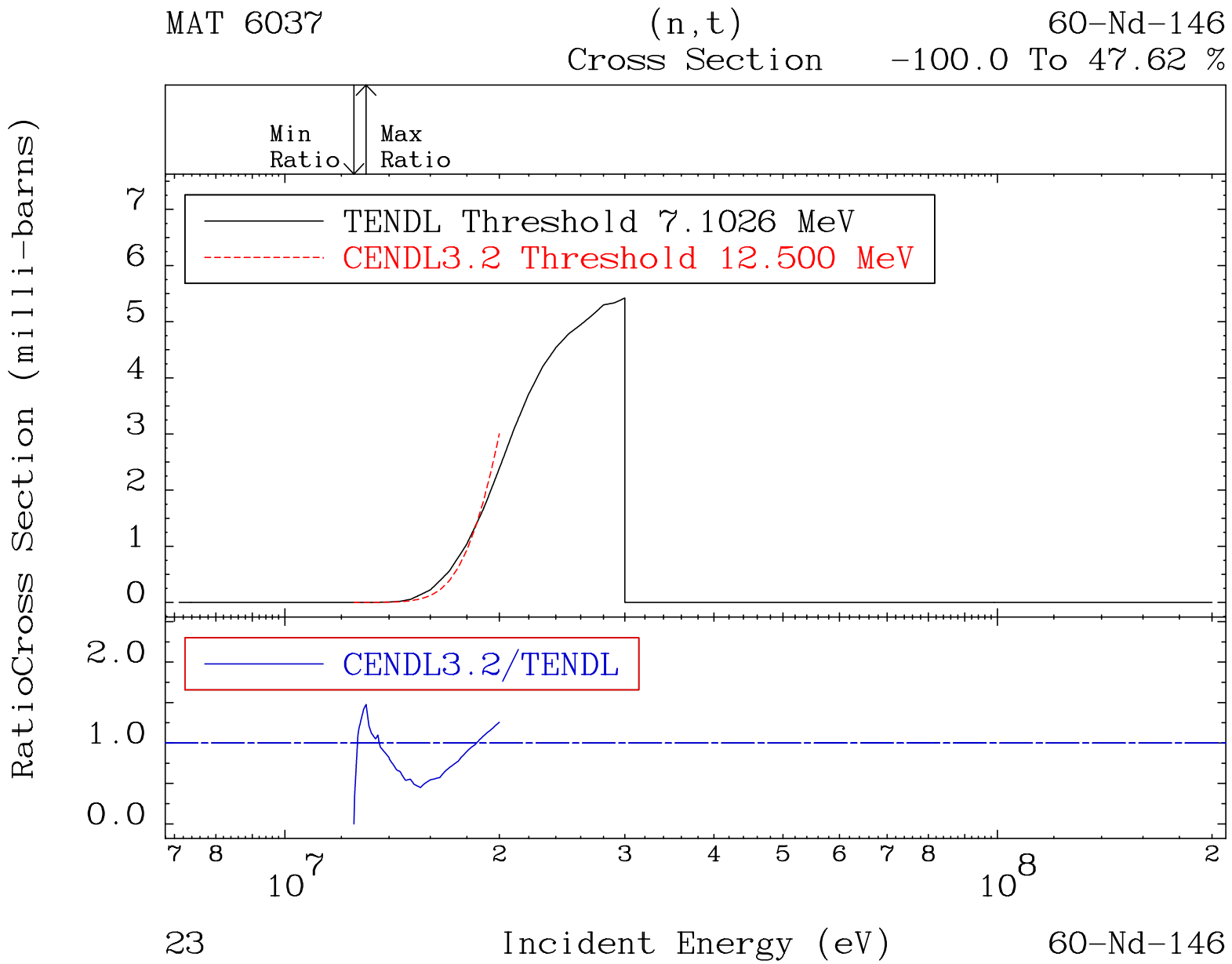

MAT 6037
MT= 61 (n,n') Level
60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7090 MeV
CENDL3.2 Threshold 1.7572 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
60-Nd-146

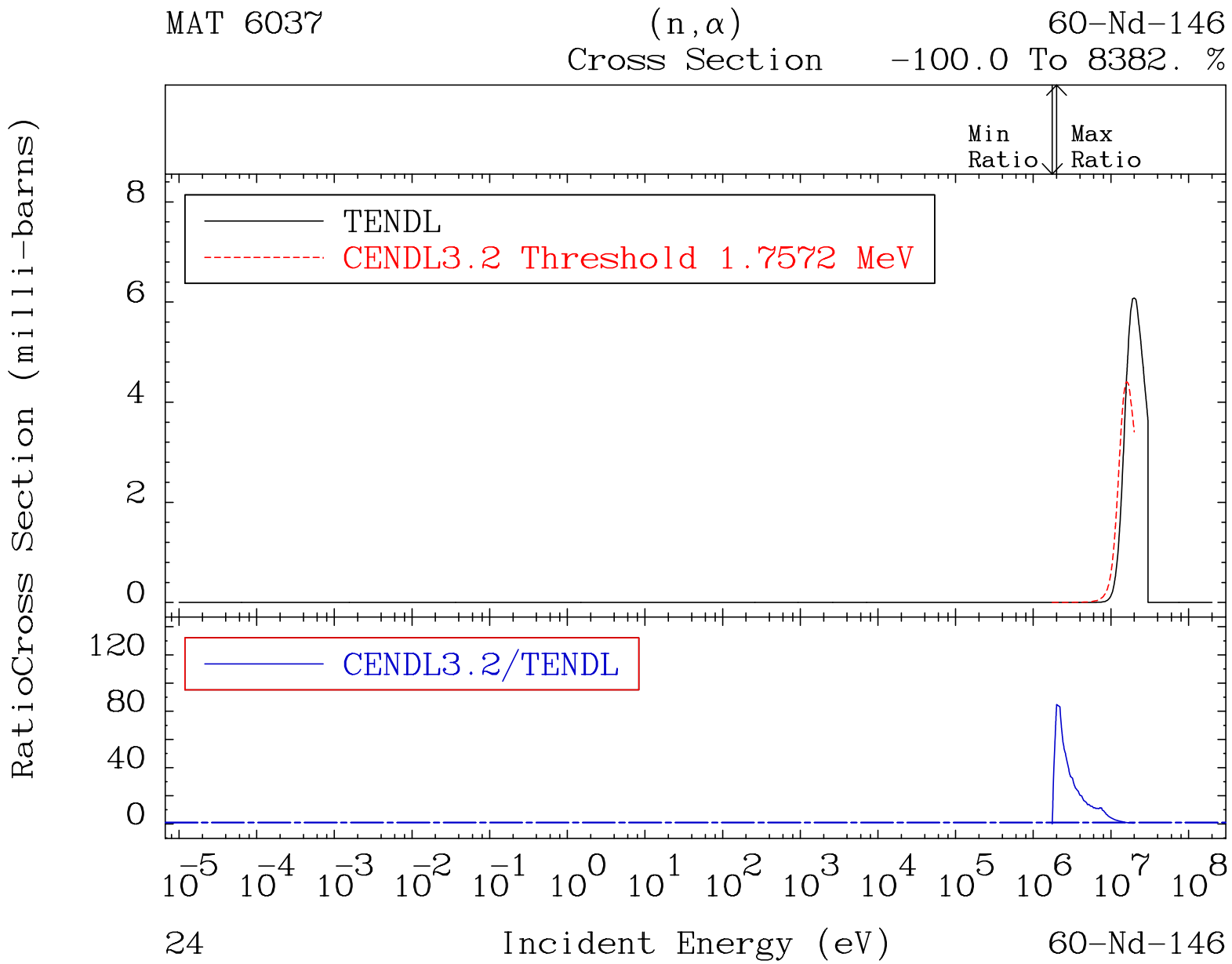

MAT 6037
(n,n') Continuum
Cross Section
60-Nd-146
-41.49 To 6642. %
Max
Ratio
Min
Ratio
TENDL Threshold 2.0871 MeV
CENDL3.2 Threshold 1.7572 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
60-Nd-146

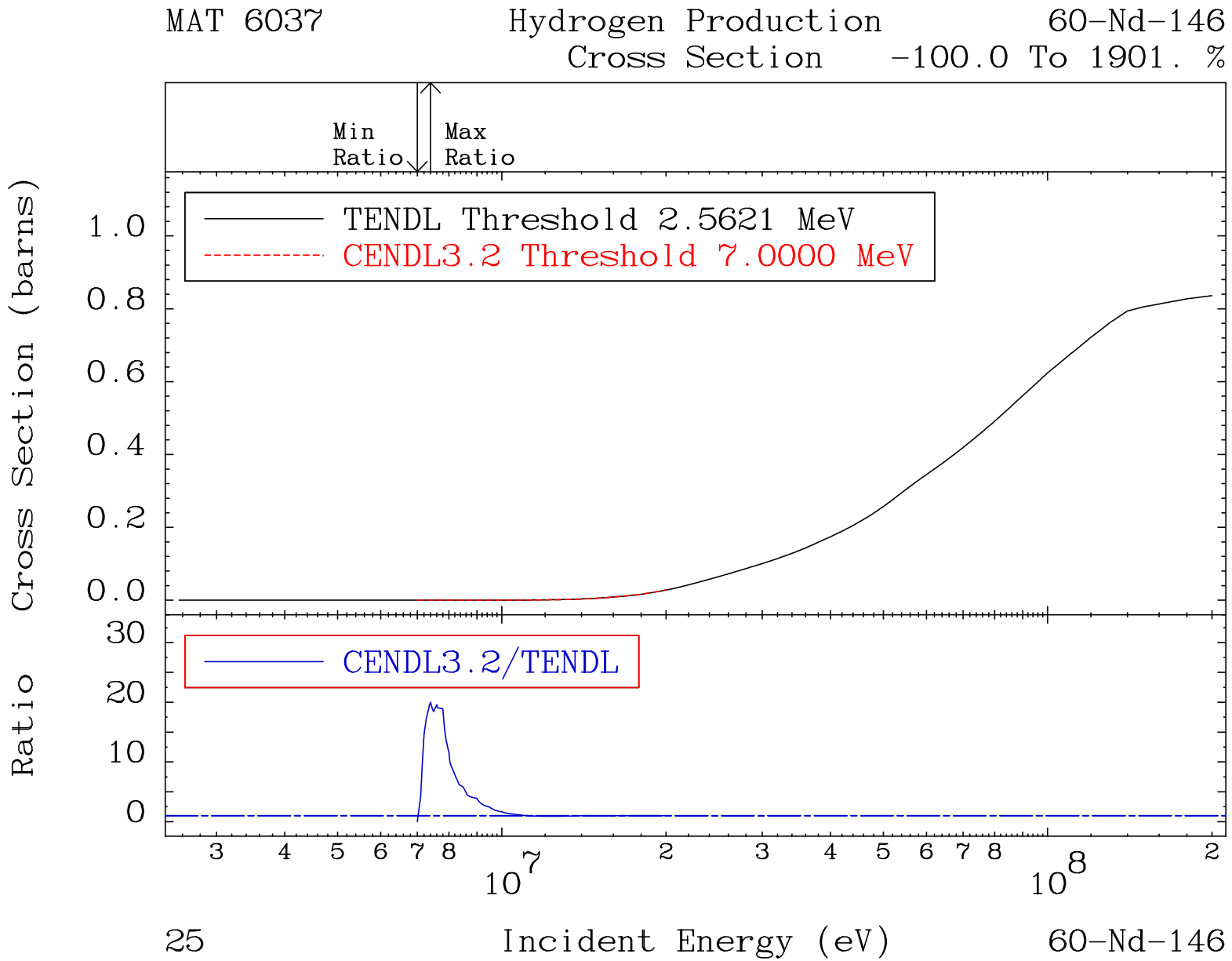

MAT 6037
(n,γ)
Cross Section
60-Nd-146
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
20
60-Nd-146

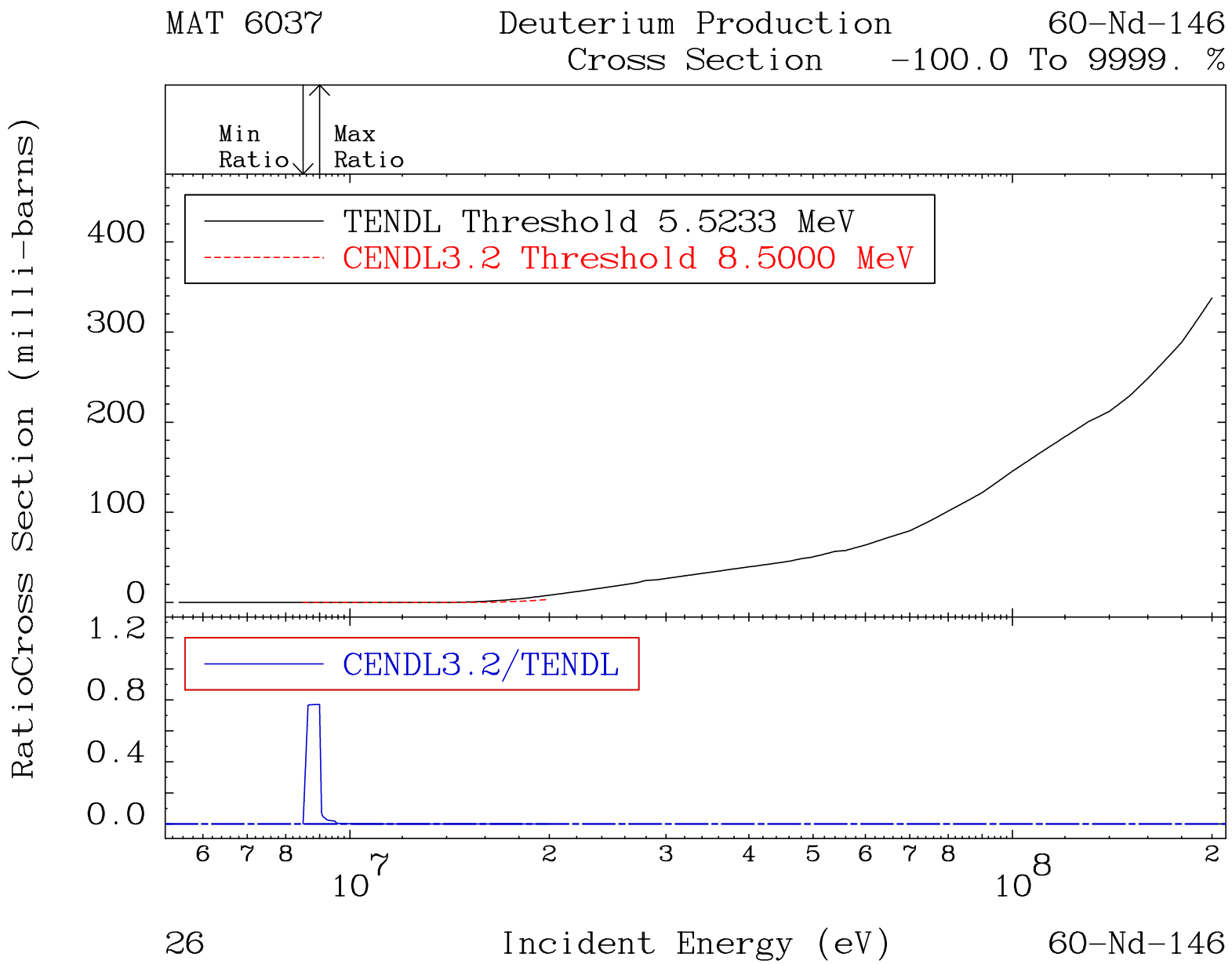

MAT 6037
(n,p)
Cross Section
60-Nd-146
-100.0 To 1901. %
Min Ratio
Max Ratio
TENDL Threshold 3.4941 MeV
CENDL3.2 Threshold 7.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
60-Nd-146

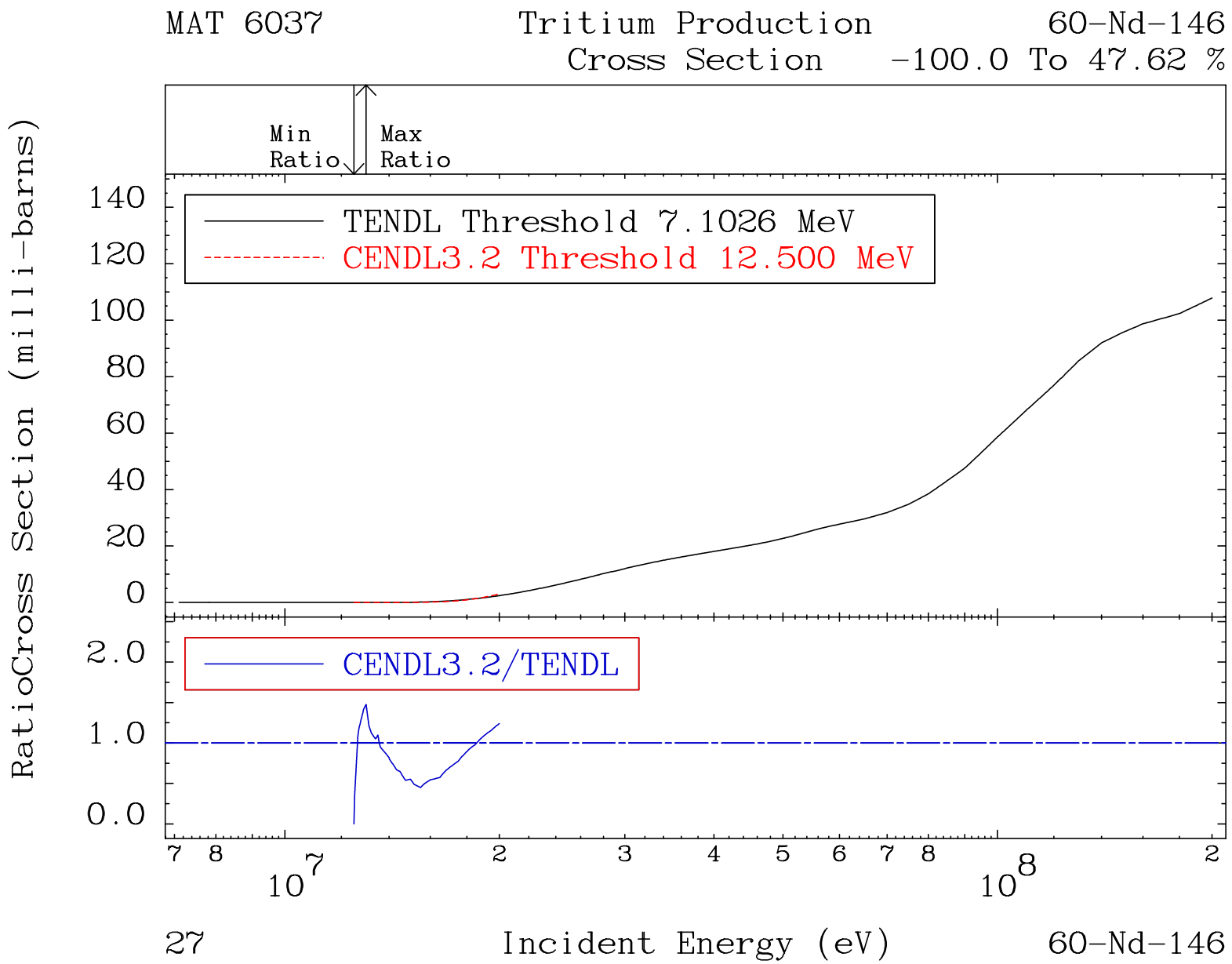

MAT 6037
(n,d)
60-Nd-146
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.4083 MeV
CENDL3.2 Threshold 8.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
0.8
0.4
0.0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
60-Nd-146

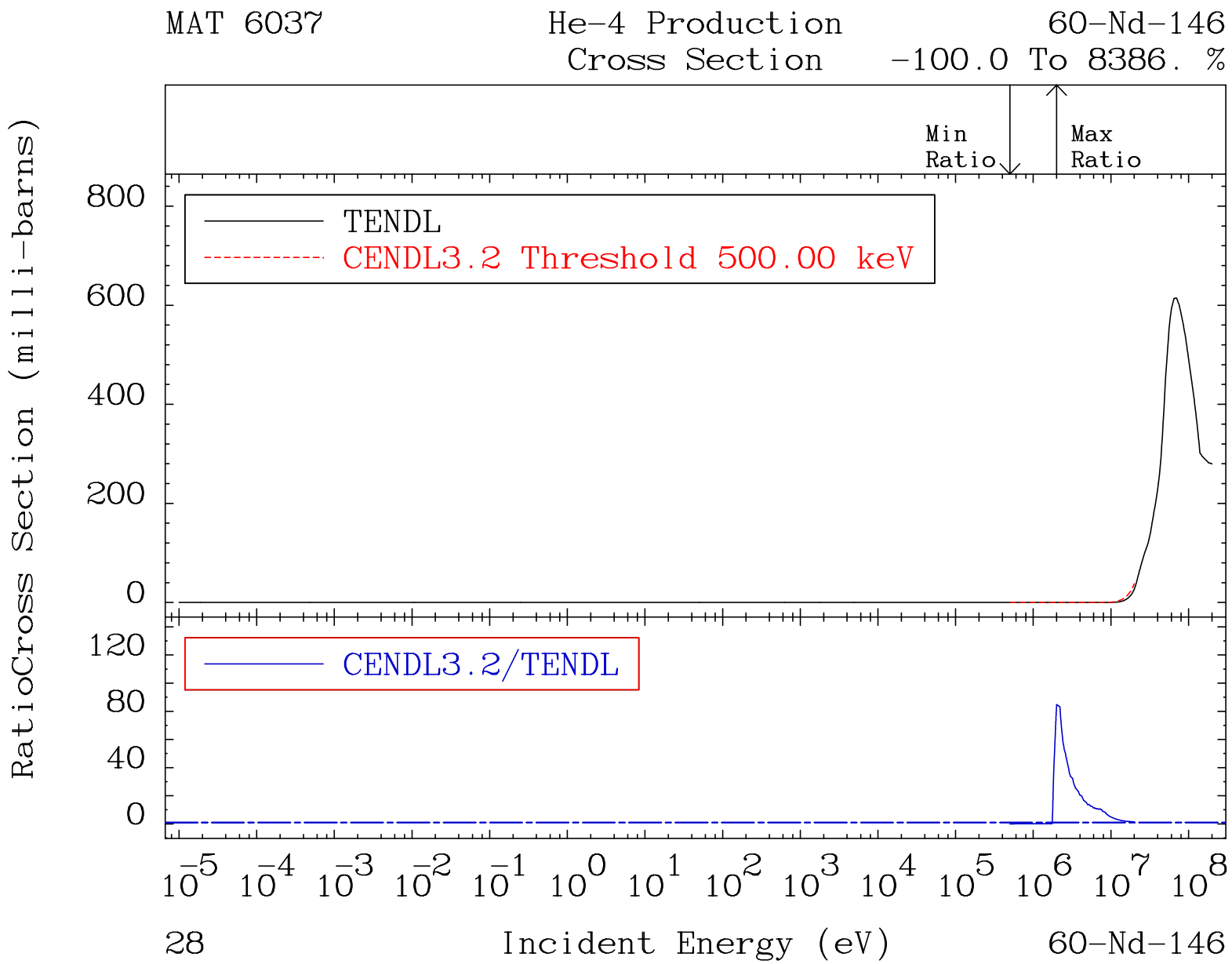

MAT 6037
(n,t)
Cross Section
60-Nd-146
-100.0 To 47.62 %
Min Ratio
Max Ratio
TENDL Threshold 7.1026 MeV
CENDL3.2 Threshold 12.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
60-Nd-146

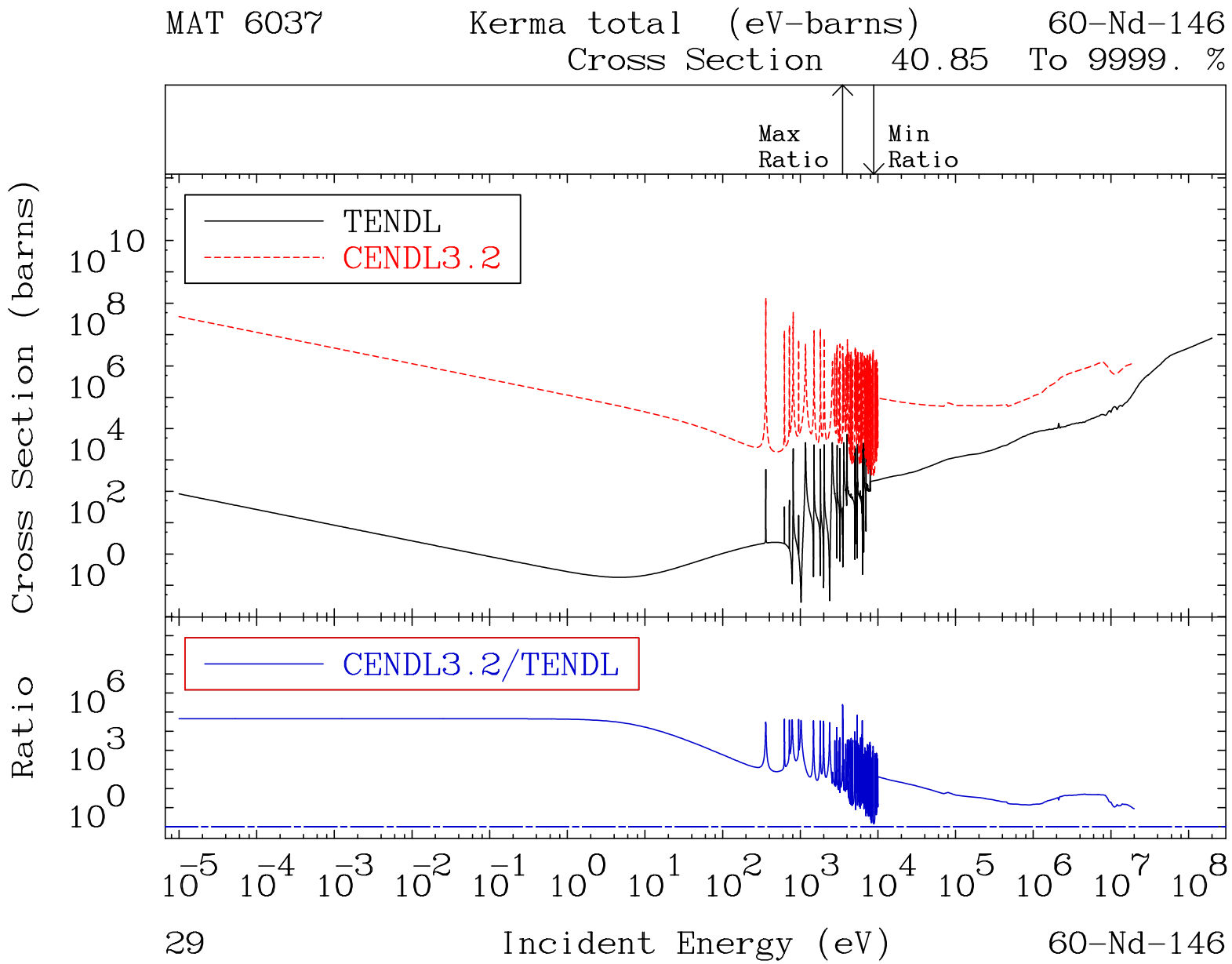

MAT 6037
(n,α)
60-Nd-146
Cross Section
-100.0 To 8382. %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 1.7572 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
60-Nd-146

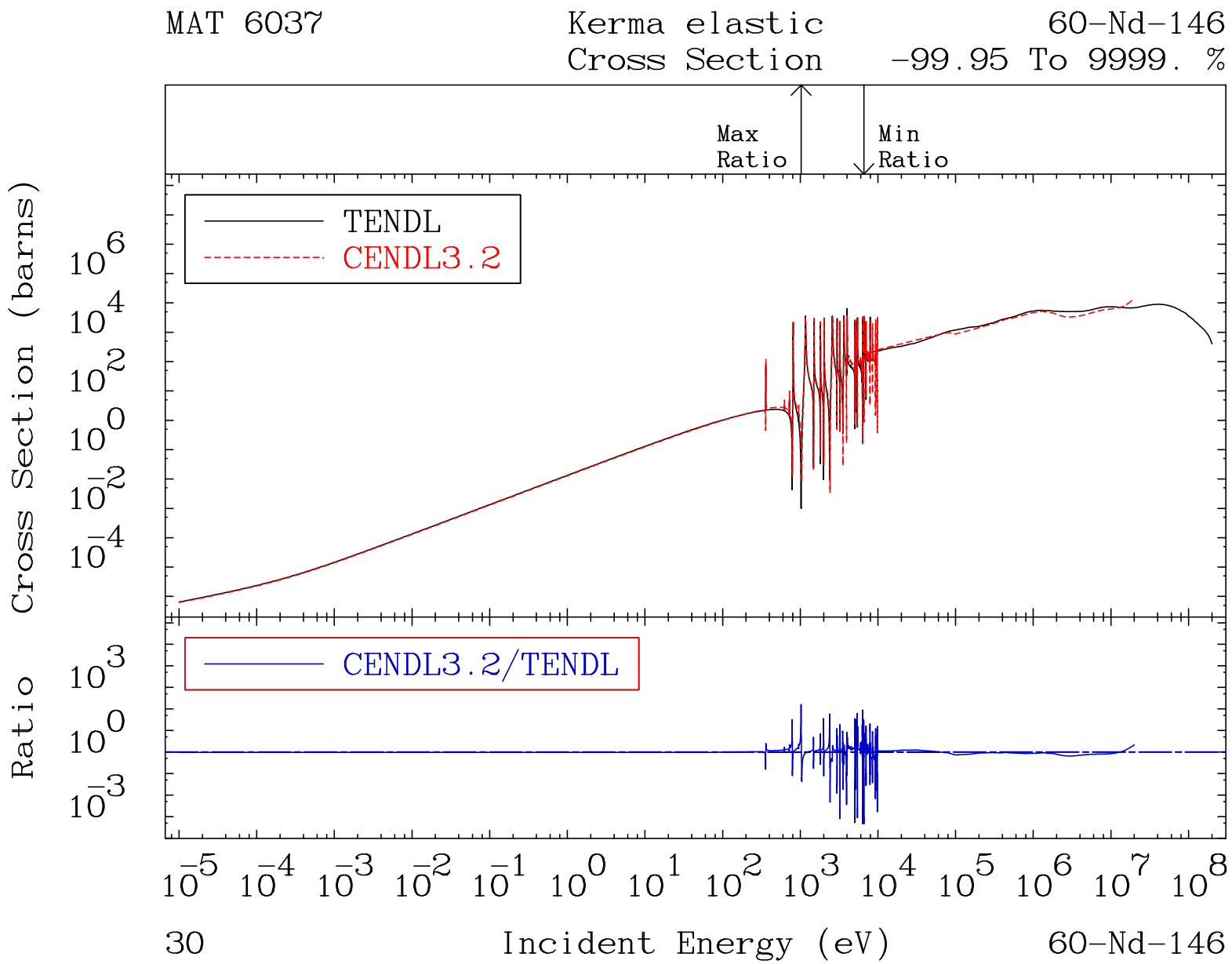

MAT 6037
Hydrogen Production
60-Nd-146
Cross Section -100.0 To 1901. %
Min Ratio
Max Ratio
TENDL Threshold 2.5621 MeV
CENDL3.2 Threshold 7.0000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
30
20
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
60-Nd-146

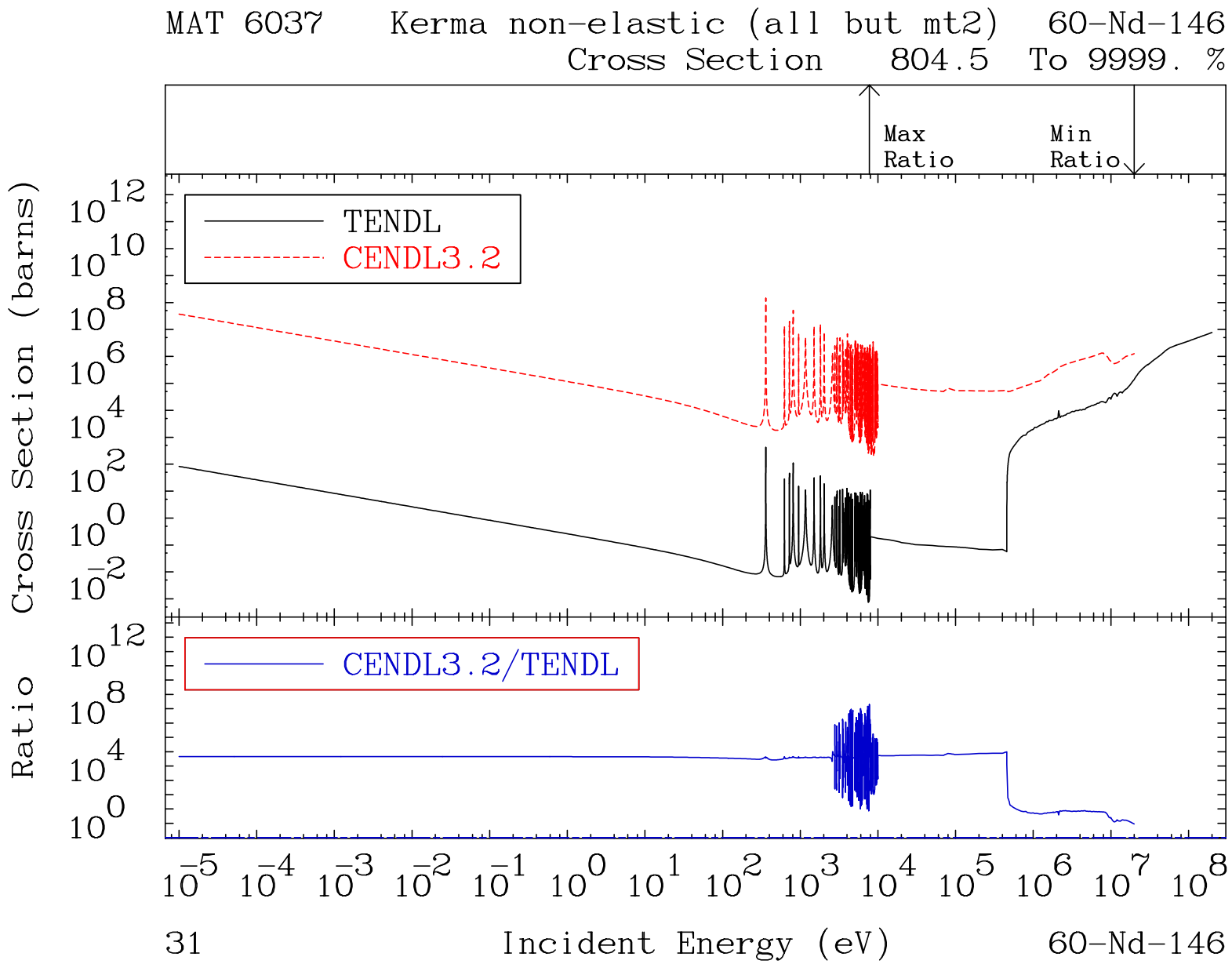

MAT 6037
Deuterium Production
60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.5233 MeV
CENDL3.2 Threshold 8.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.8
0.4
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
60-Nd-146

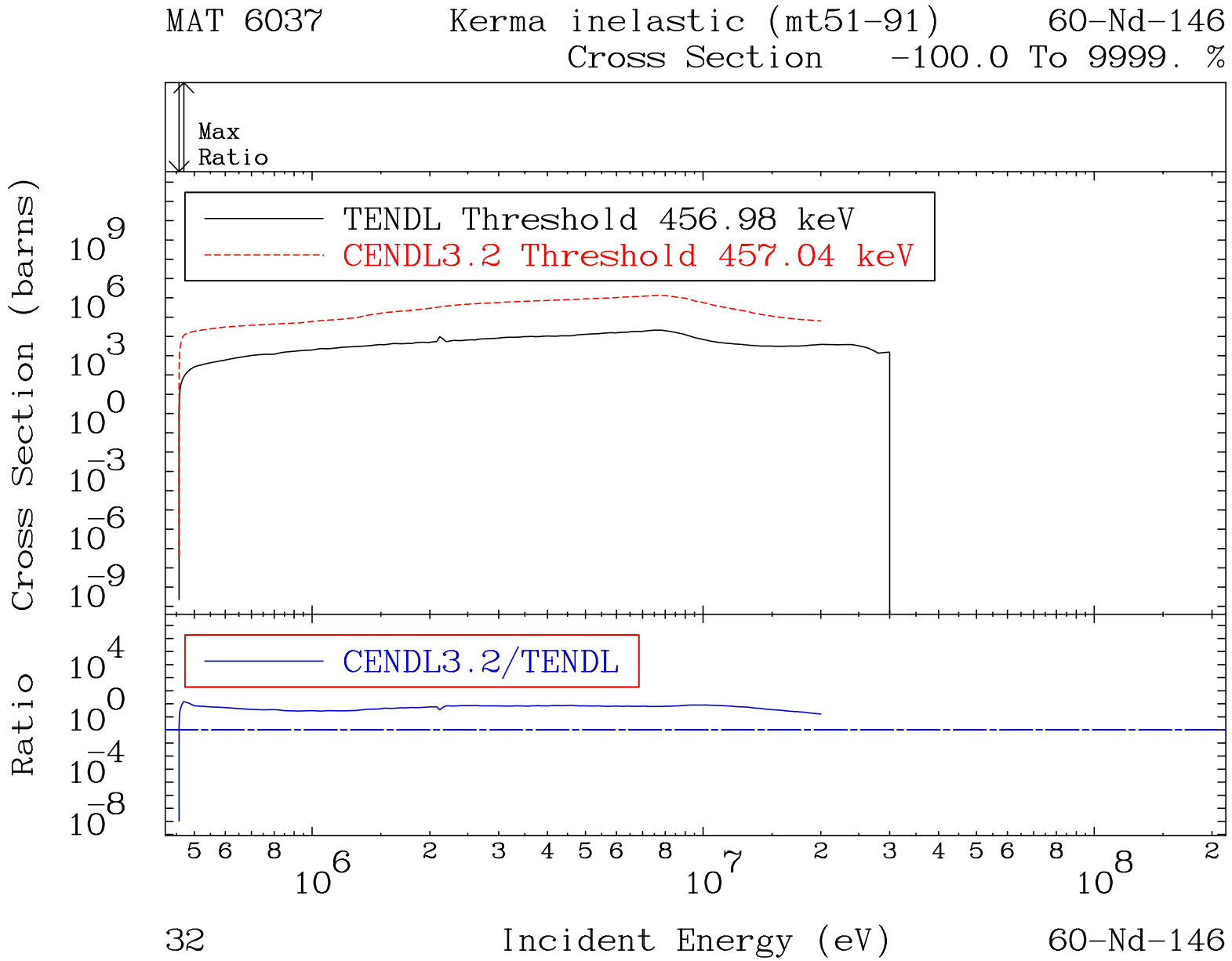

MAT 6037
Tritium Production
60-Nd-146
Cross Section
-100.0 To 47.62 %
Min Ratio
Max Ratio
TENDL Threshold 7.1026 MeV
CENDL3.2 Threshold 12.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
60-Nd-146

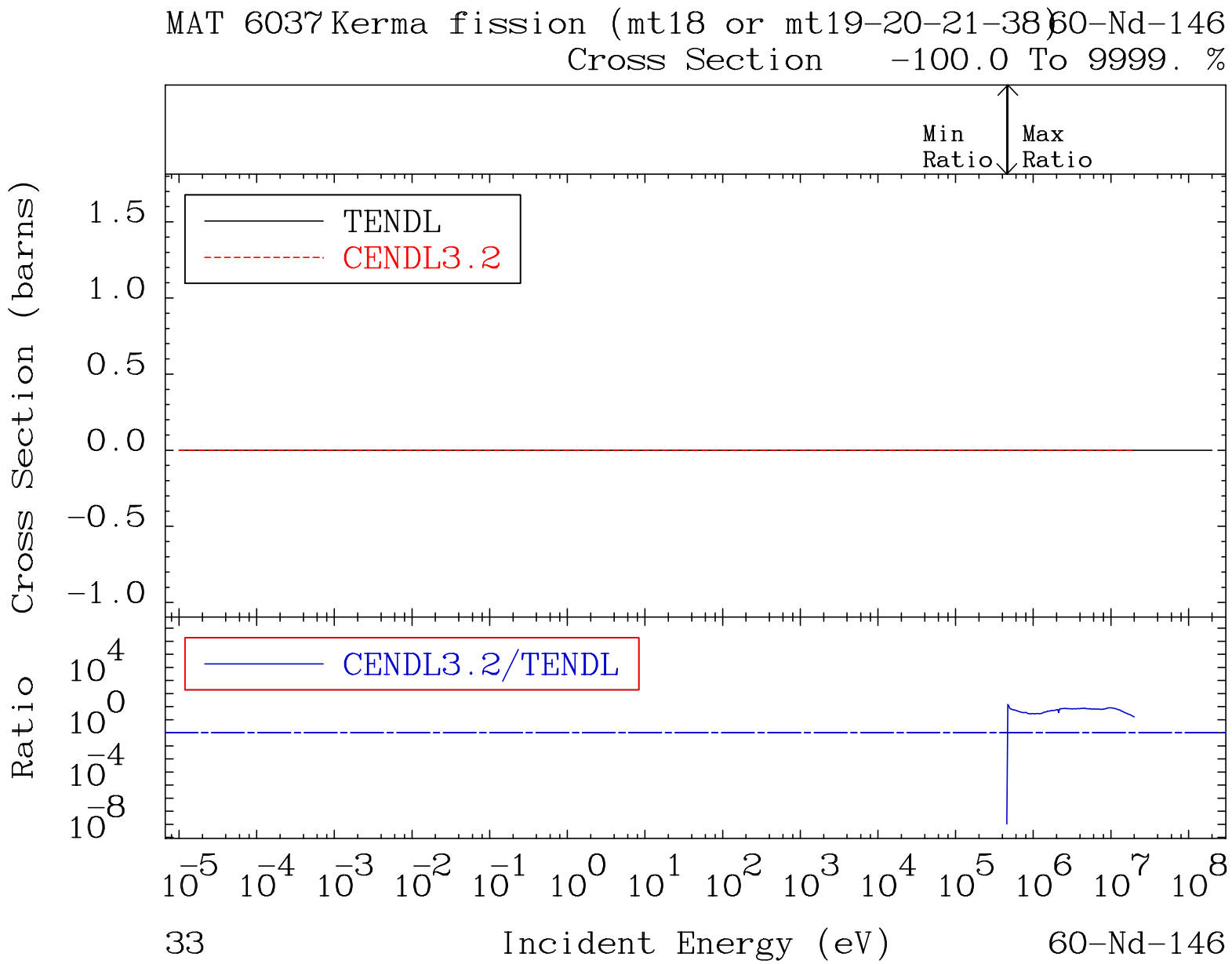

MAT 6037
He-4 Production
Cross Section
60-Nd-146
-100.0 To 8386. %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 500.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
120
80
40
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
60-Nd-146

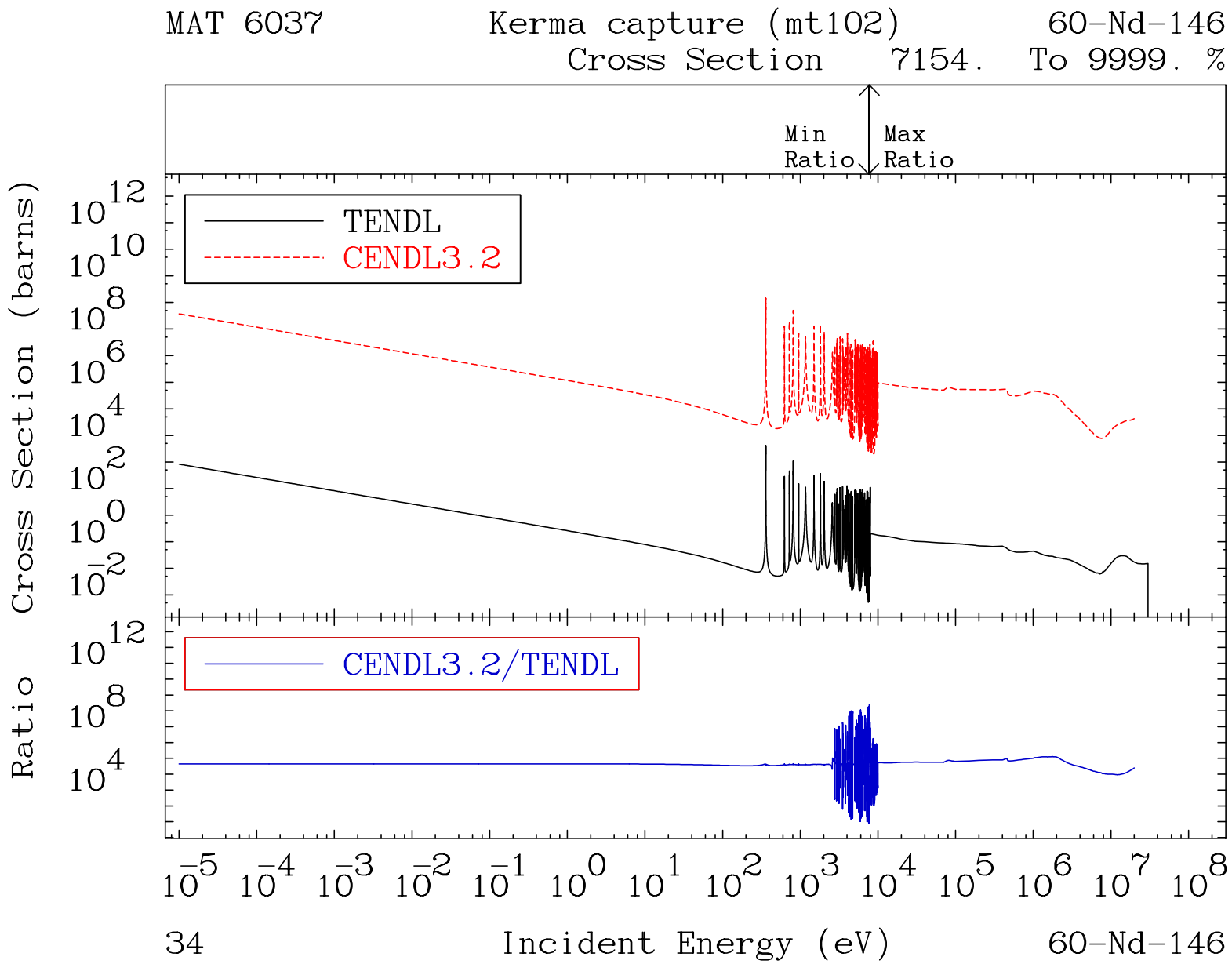

MAT 6037
Kerma total (eV-barns)
60-Nd-146
Cross Section 40.85 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
29
60-Nd-146

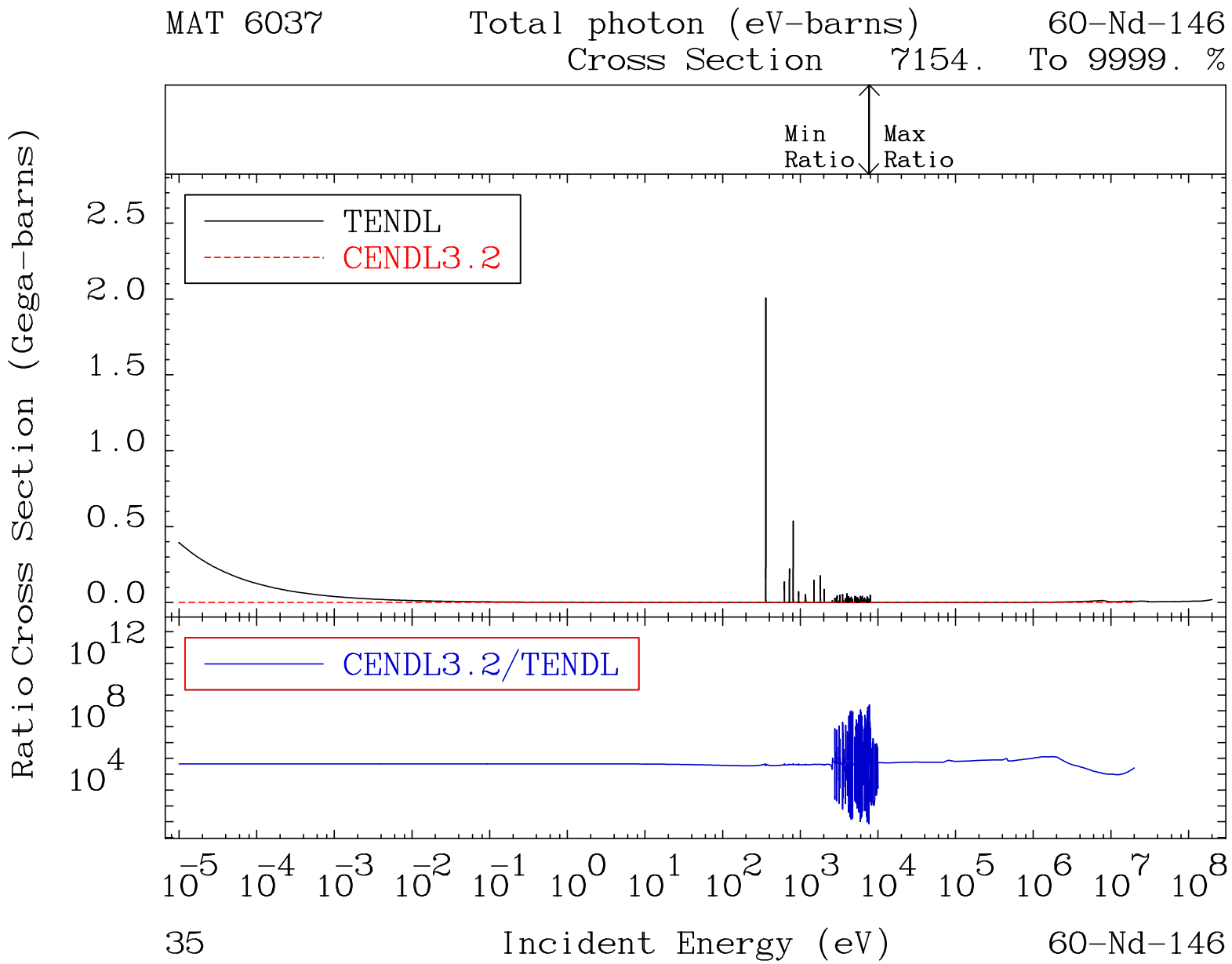

MAT 6037
Kerma elastic
Cross Section
60-Nd-146
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
30
60-Nd-146

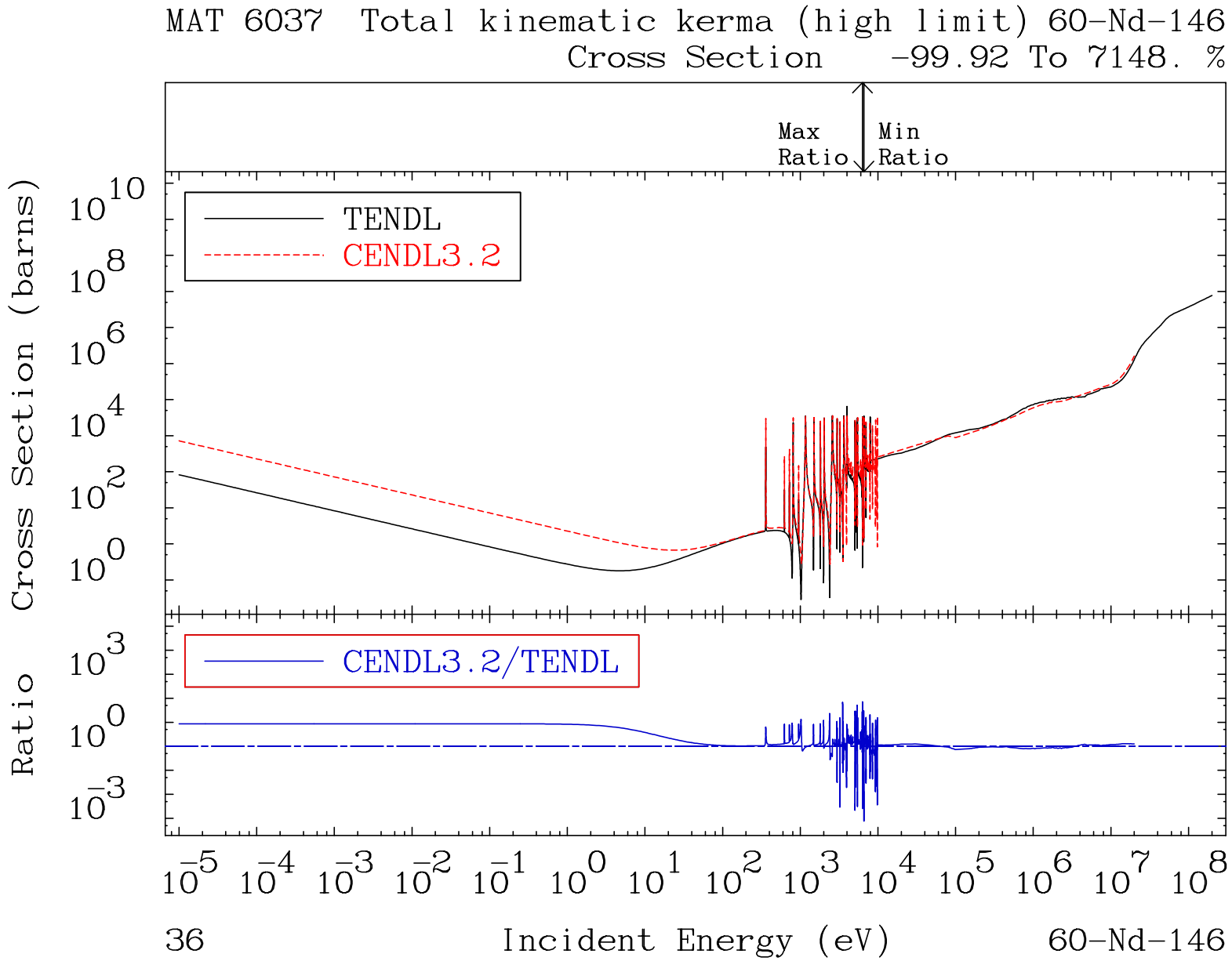

MAT 6037 Kerma non-elastic (all but mt2) 60-Nd-146
Cross Section 804.5 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
60-Nd-146

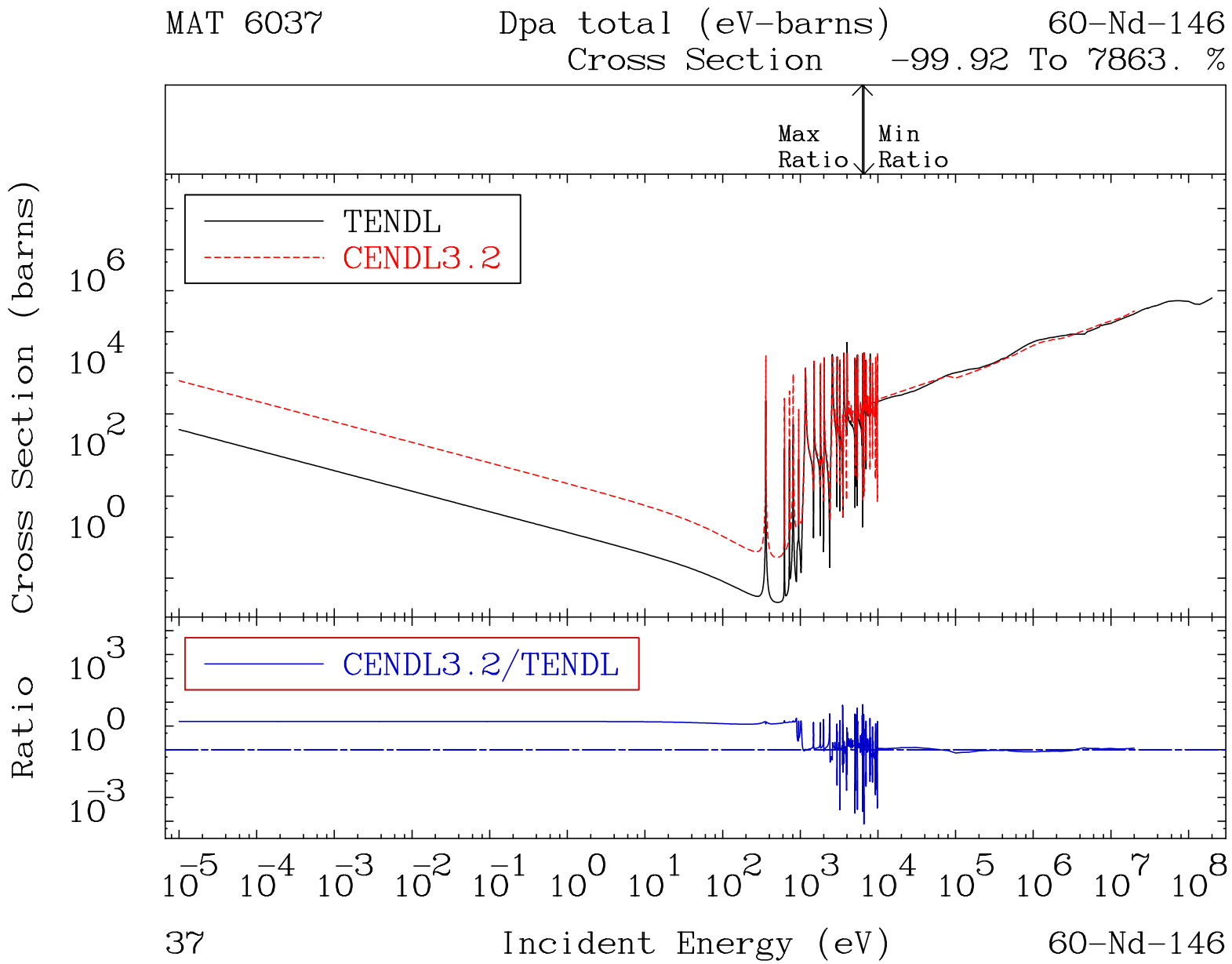

MAT 6037
Kerma inelastic (mt51-91)
60-Nd-146
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 456.98 keV
CENDL3.2 Threshold 457.04 keV
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
10^-9
CENDL3.2/TENDL
Ratio
10^4
10^0
10^-4
10^-8
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
60-Nd-146

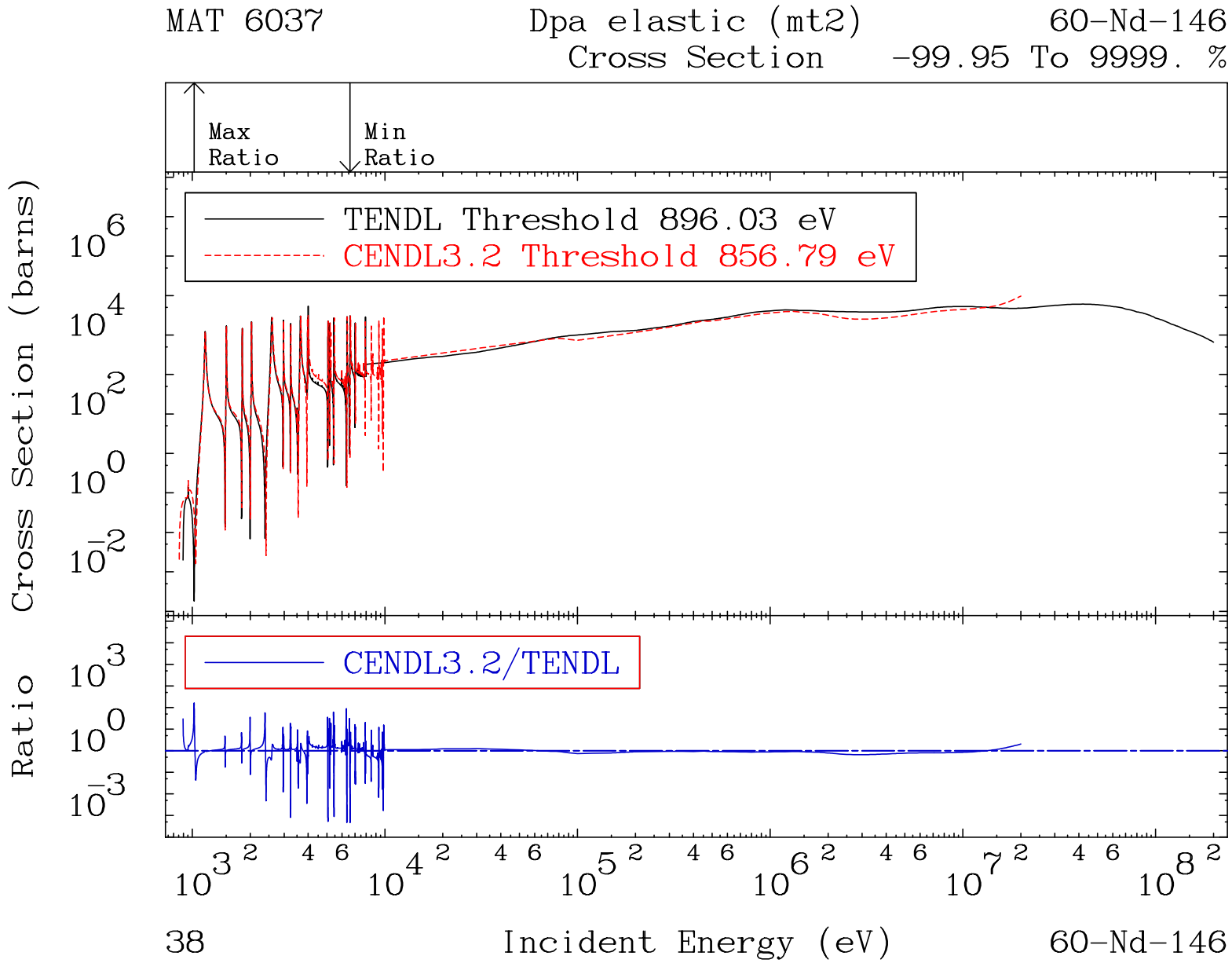

MAT 6037 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{4}
10^{0}
10^{-4}
10^{-8}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
33
Incident Energy (eV)
60-Nd-146

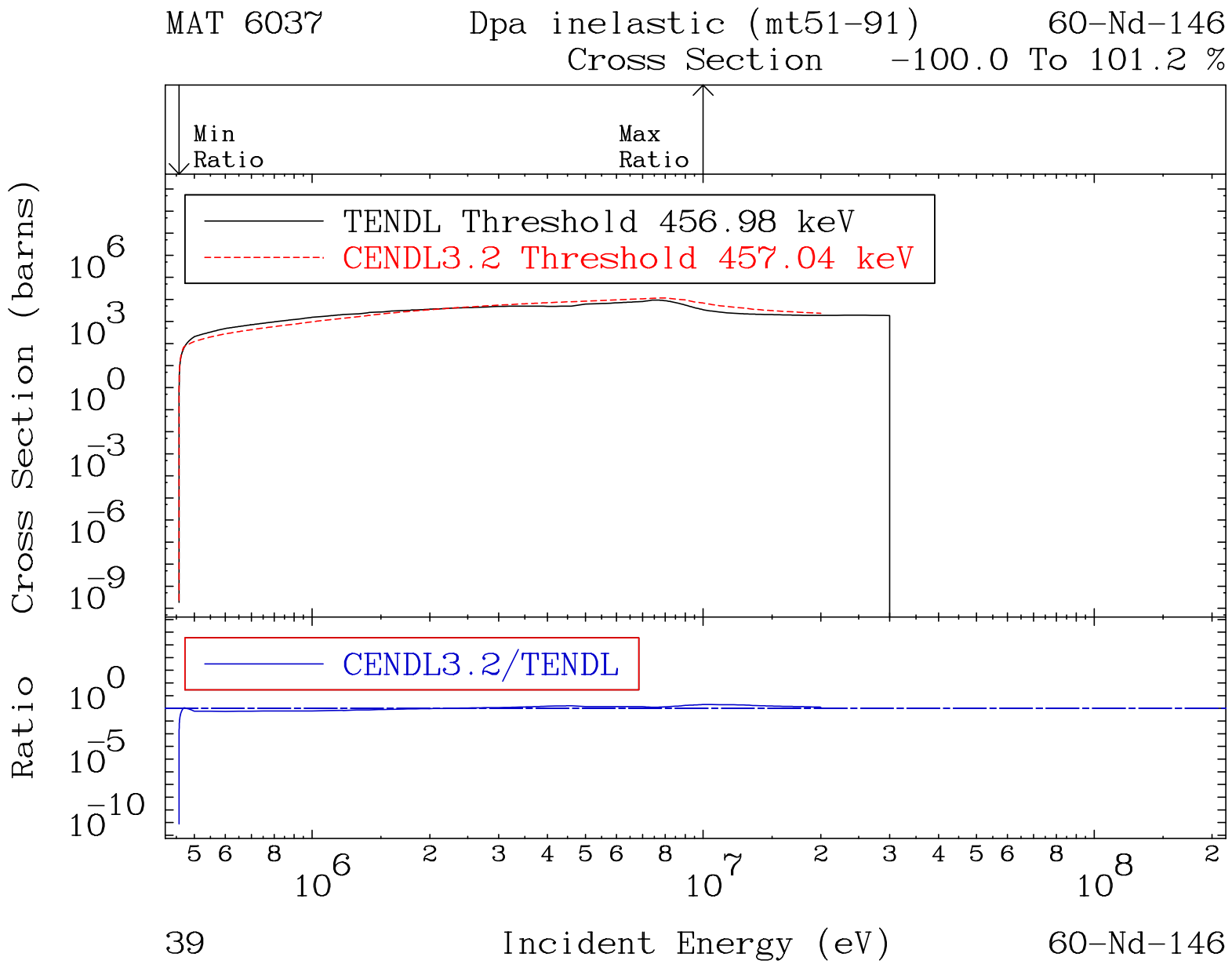

MAT 6037
Kerma capture (mt102)
60-Nd-146
Cross Section 7154. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
60-Nd-146

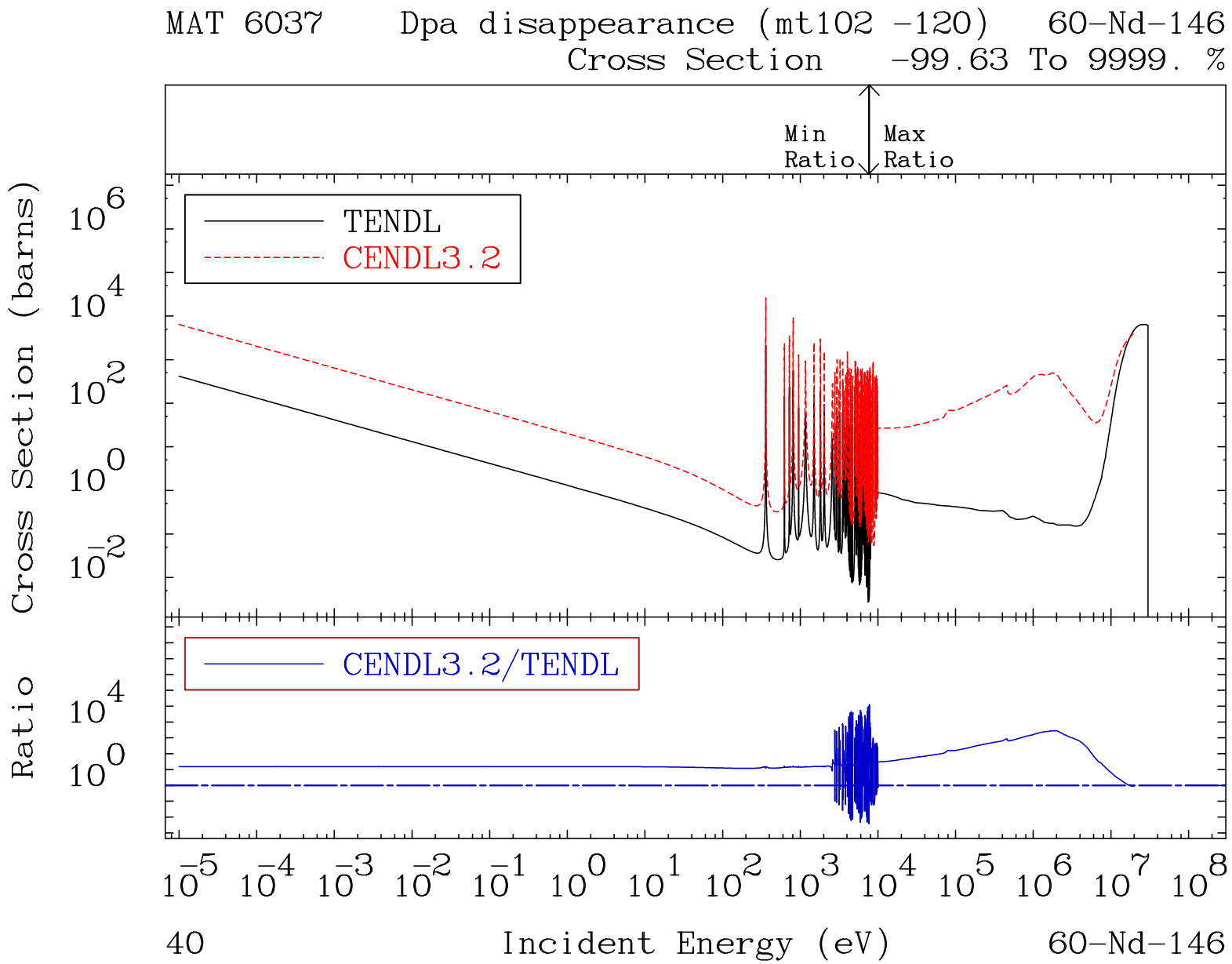

MAT 6037
Total photon (eV-barns)
60-Nd-146
Cross Section 7154. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Giga-barns)
2.5
2.0
1.5
1.0
0.5
0.0
10^{12}
10^{8}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
35
Incident Energy (eV)
60-Nd-146

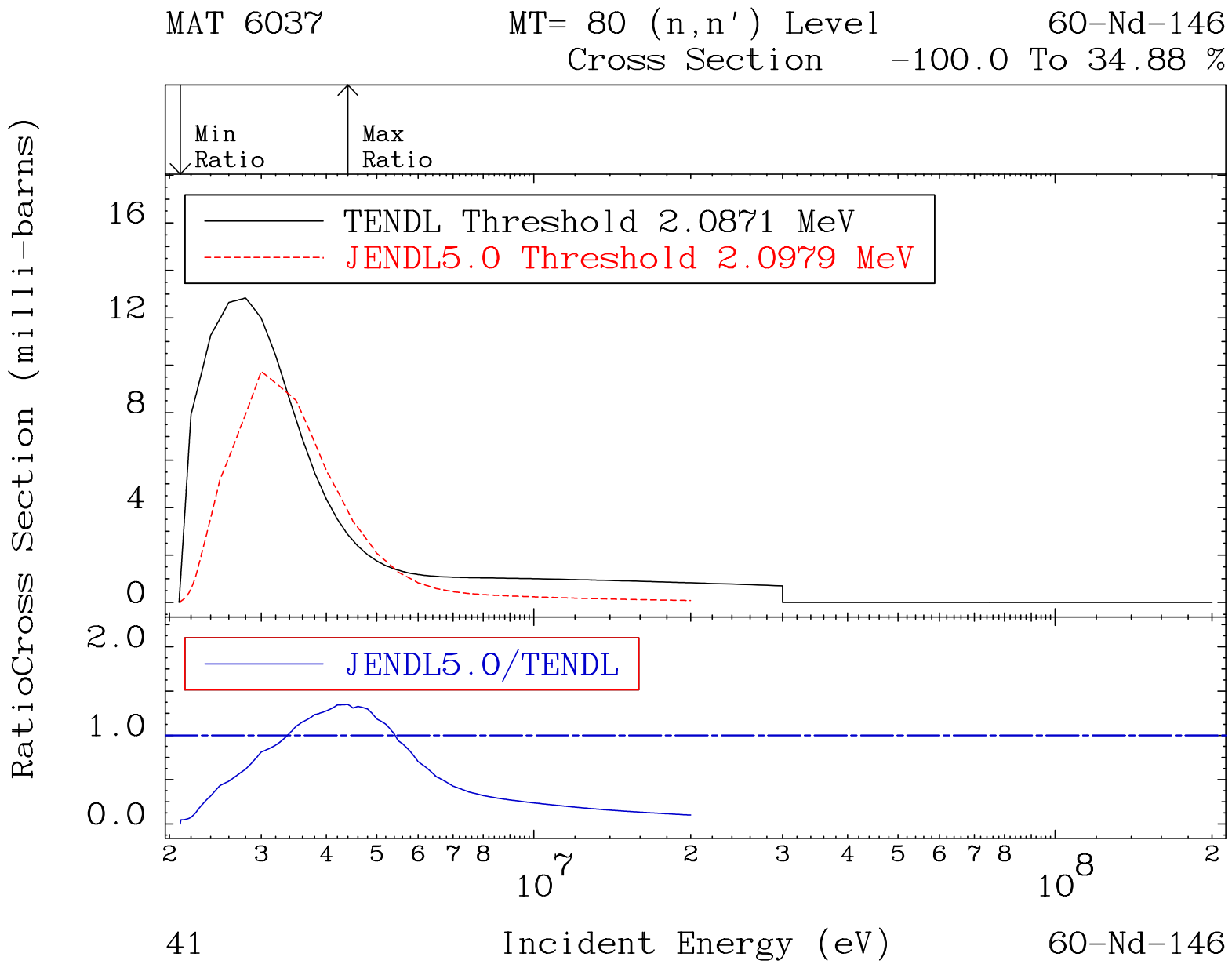

MAT 6037 Total kinematic kerma (high limit) 60-Nd-146
Cross Section -99.92 To 7148. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
60-Nd-146

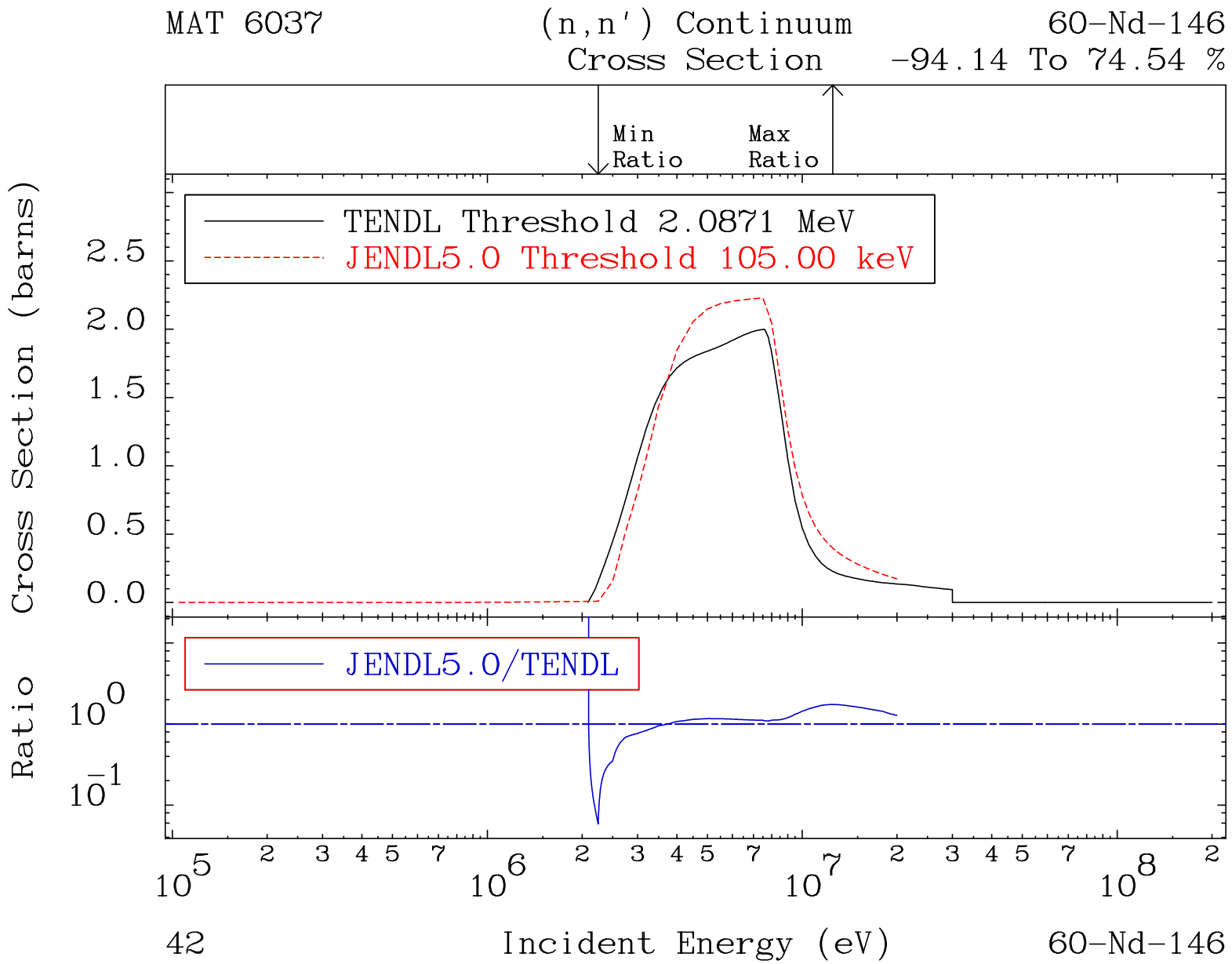

MAT 6037
Dpa total (eV-barns)
60-Nd-146
Cross Section
-99.92 To 7863. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
60-Nd-146

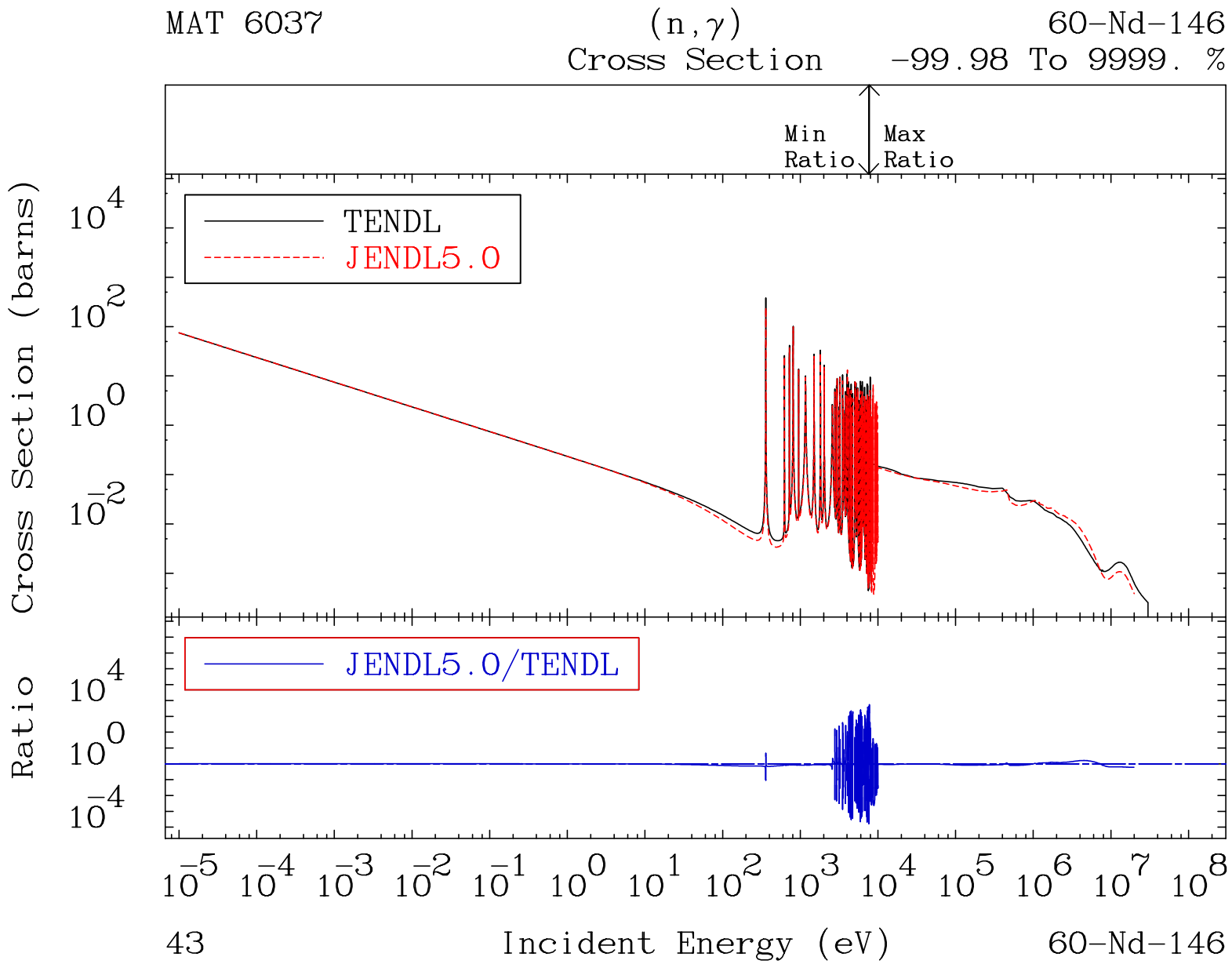

MAT 6037
Dpa elastic (mt2)
Cross Section
60-Nd-146
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 896.03 eV
CENDL3.2 Threshold 856.79 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
60-Nd-146

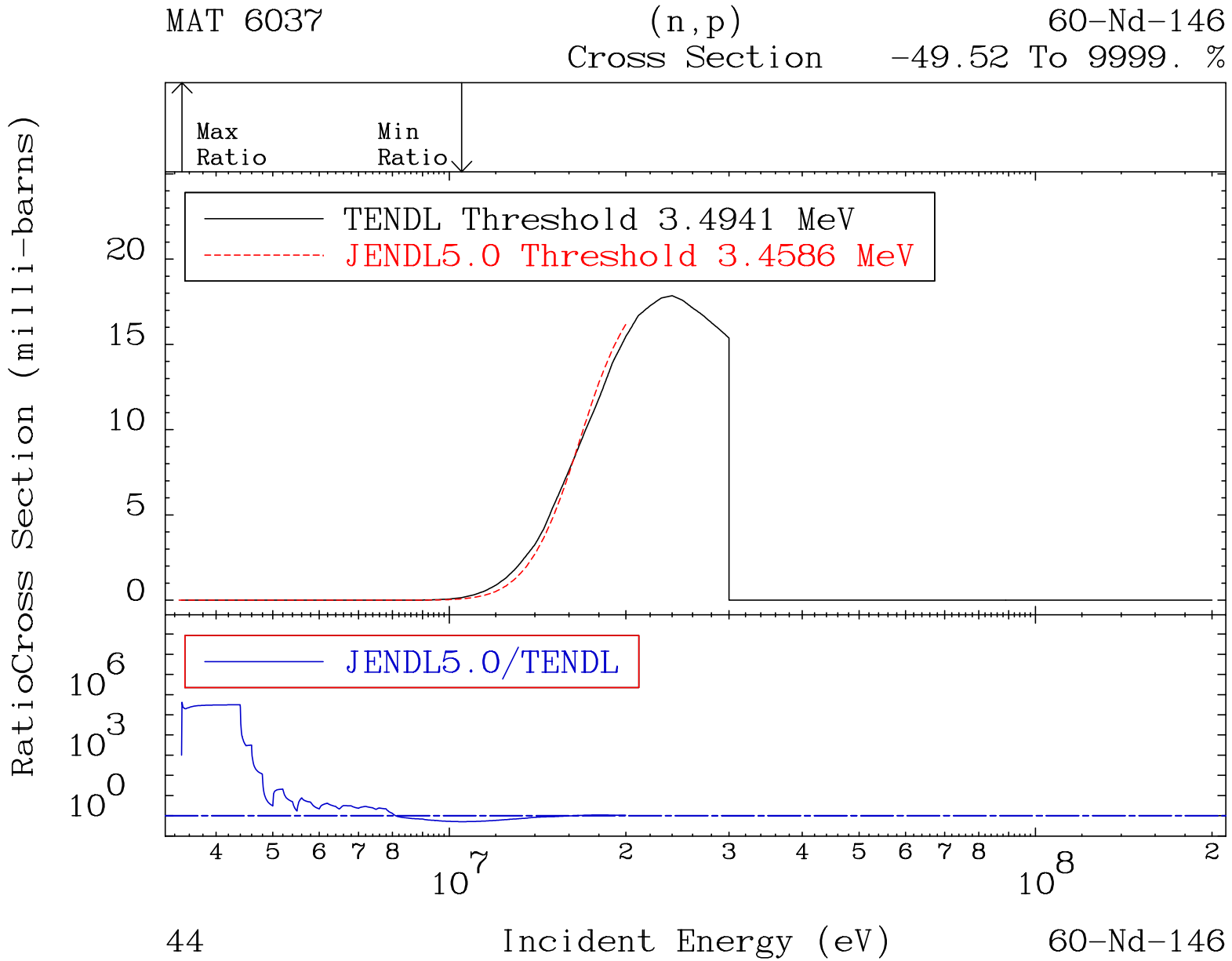

MAT 6037
Dpa inelastic (mt51-91)
60-Nd-146
Cross Section -100.0 To 101.2 %
Min Ratio
Max Ratio
TENDL Threshold 456.98 keV
CENDL3.2 Threshold 457.04 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
60-Nd-146

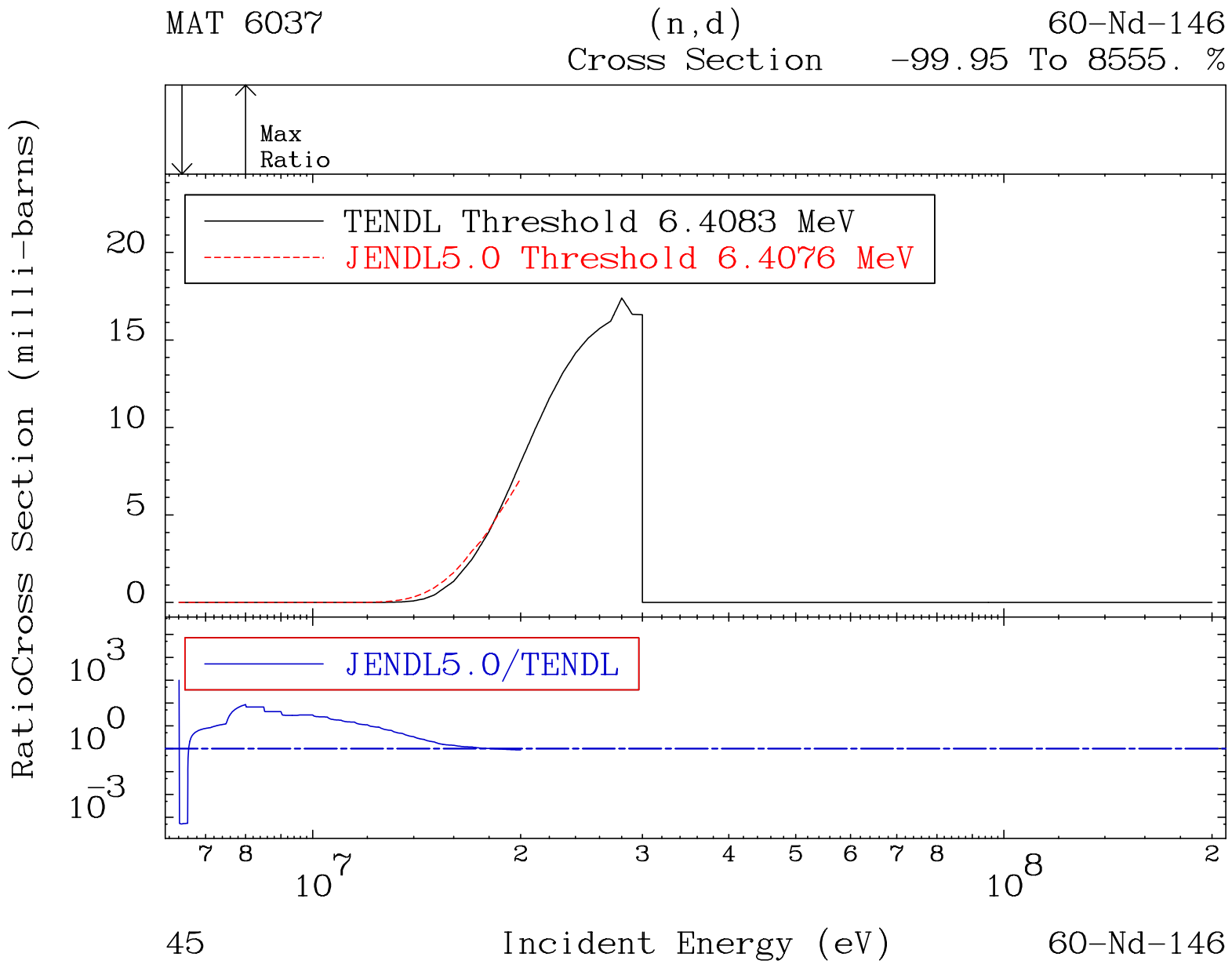

MAT 6037 Dpa disappearance (mt102 -120) 60-Nd-146
Cross Section -99.63 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
40
60-Nd-146

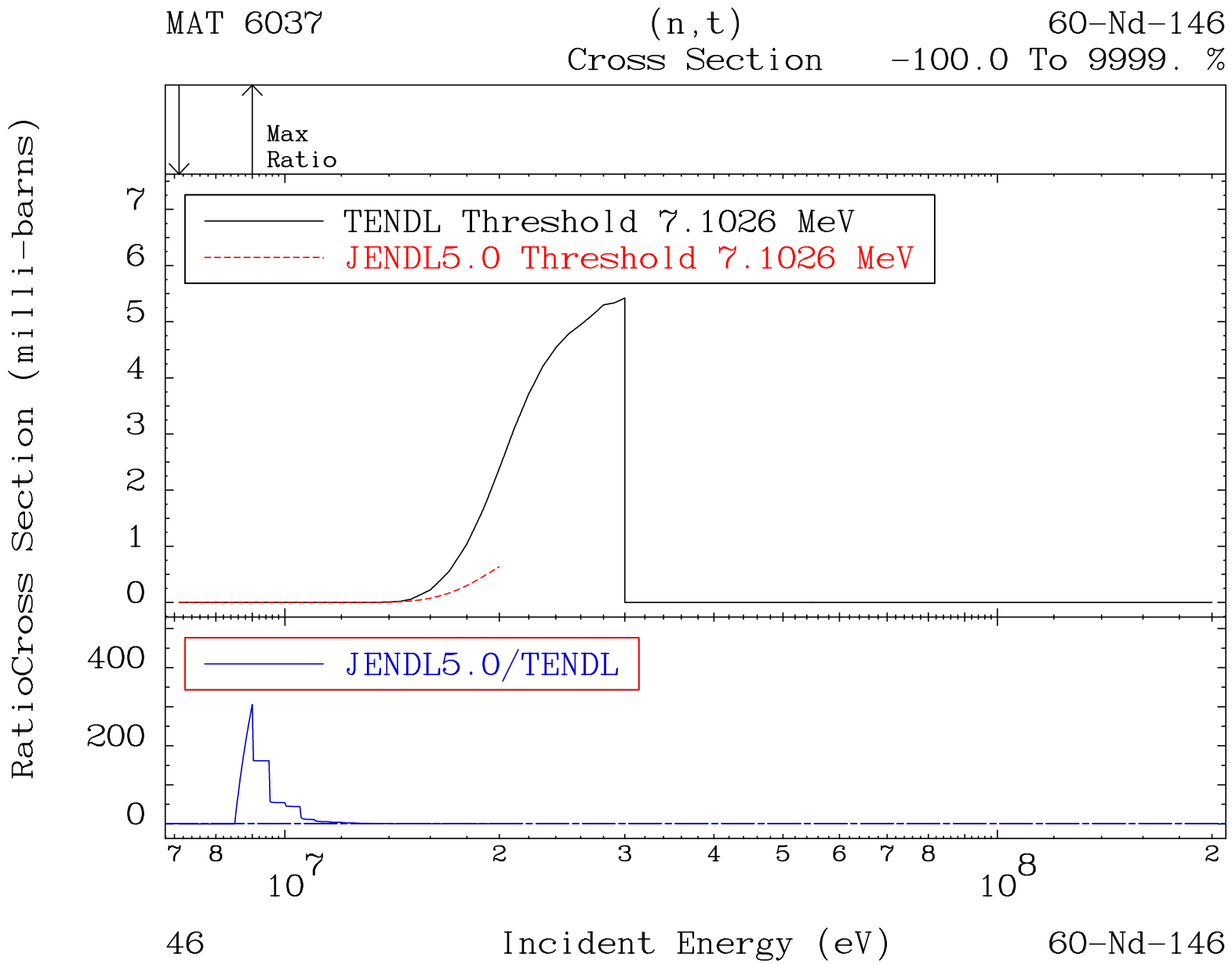

MAT 6037
MT= 80 (n,n') Level
60-Nd-146
Cross Section -100.0 To 34.88 %
Min Ratio
Max Ratio
TENDL Threshold 2.0871 MeV
JENDL5.0 Threshold 2.0979 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
60-Nd-146

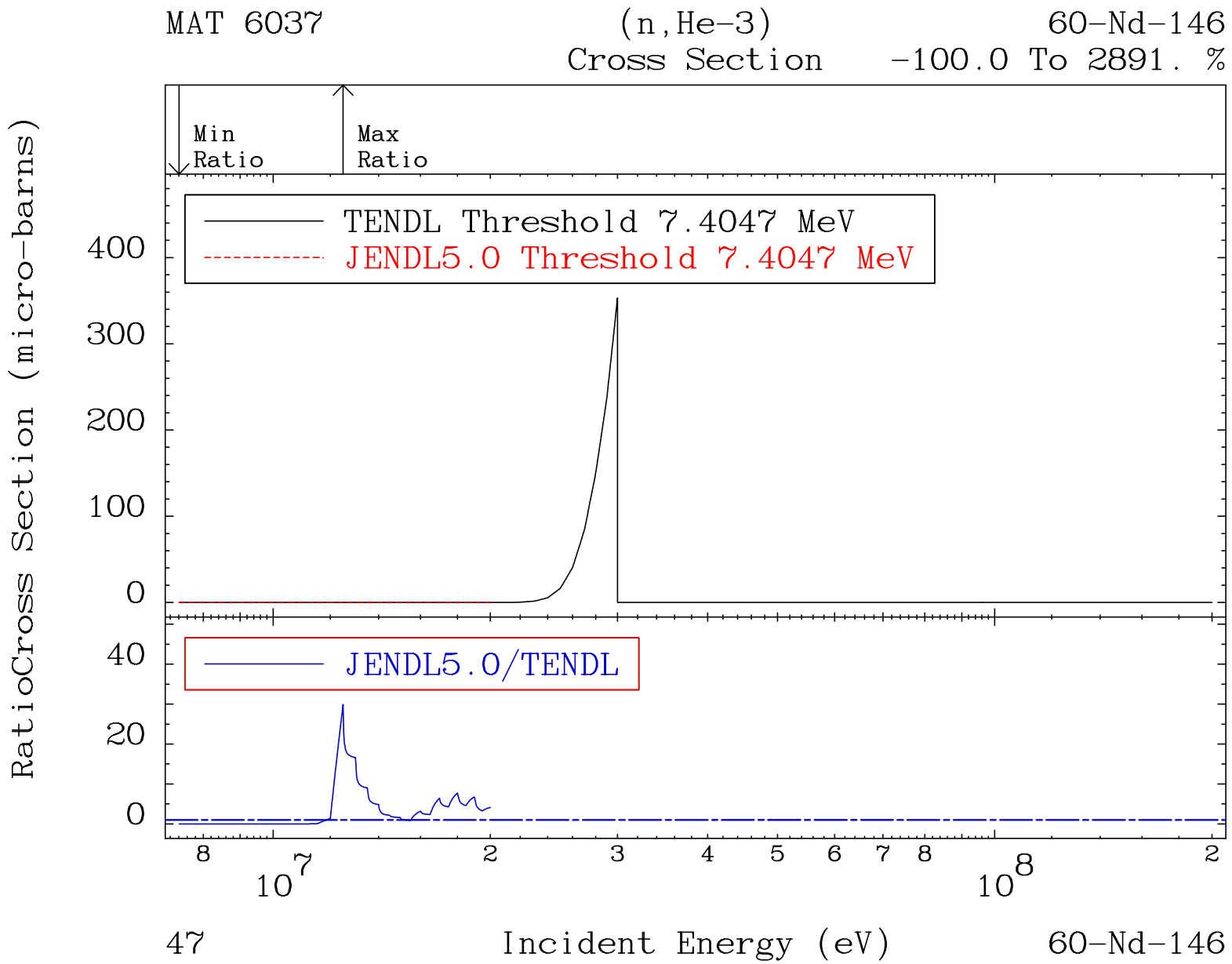

MAT 6037
(n,n') Continuum
Cross Section
60-Nd-146
-94.14 To 74.54 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0871 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
10^0
10^-1
10^5
10^6
10^7
10^8
Incident Energy (eV)
42
60-Nd-146

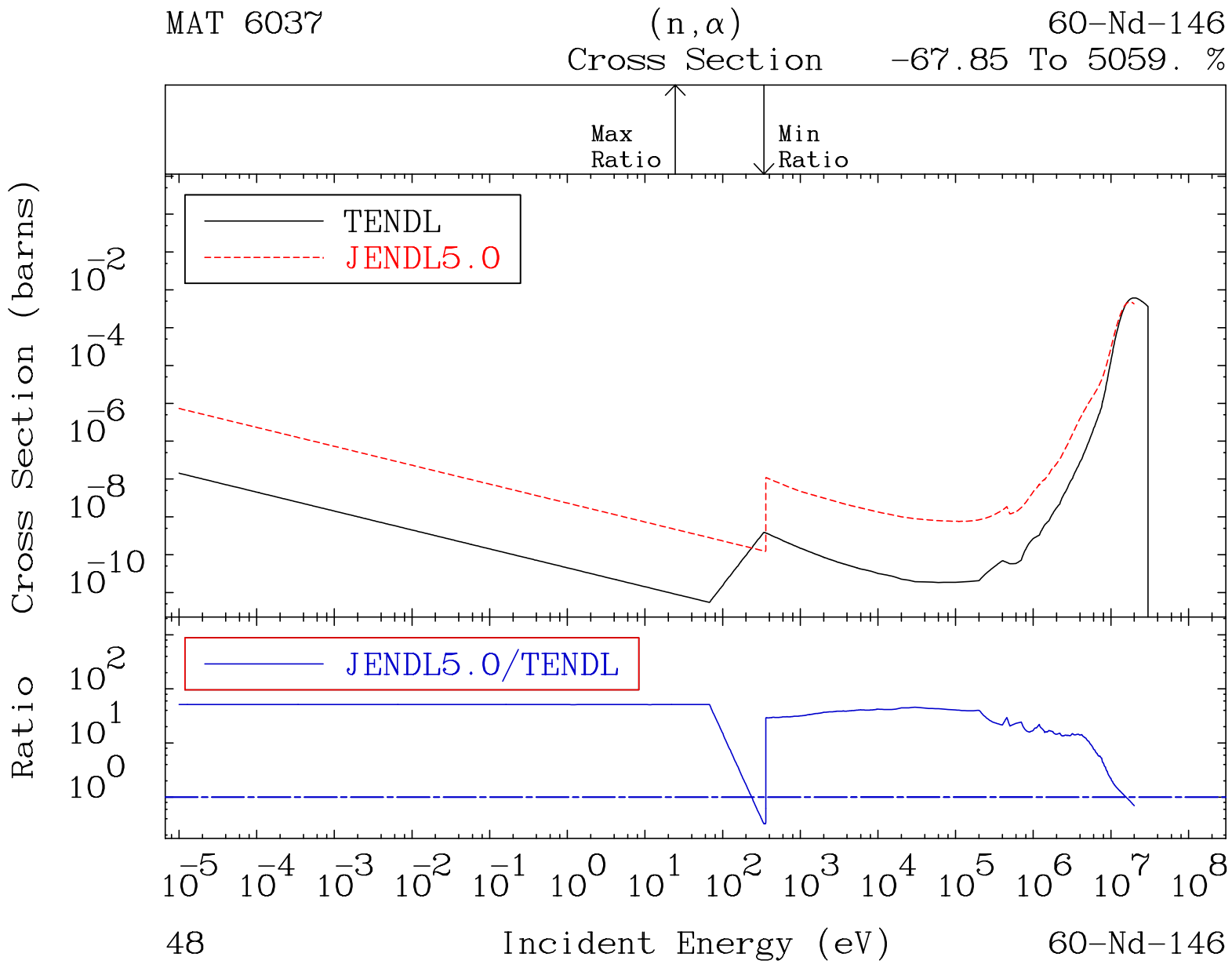

MAT 6037
(n,γ)
Cross Section
60-Nd-146
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
60-Nd-146

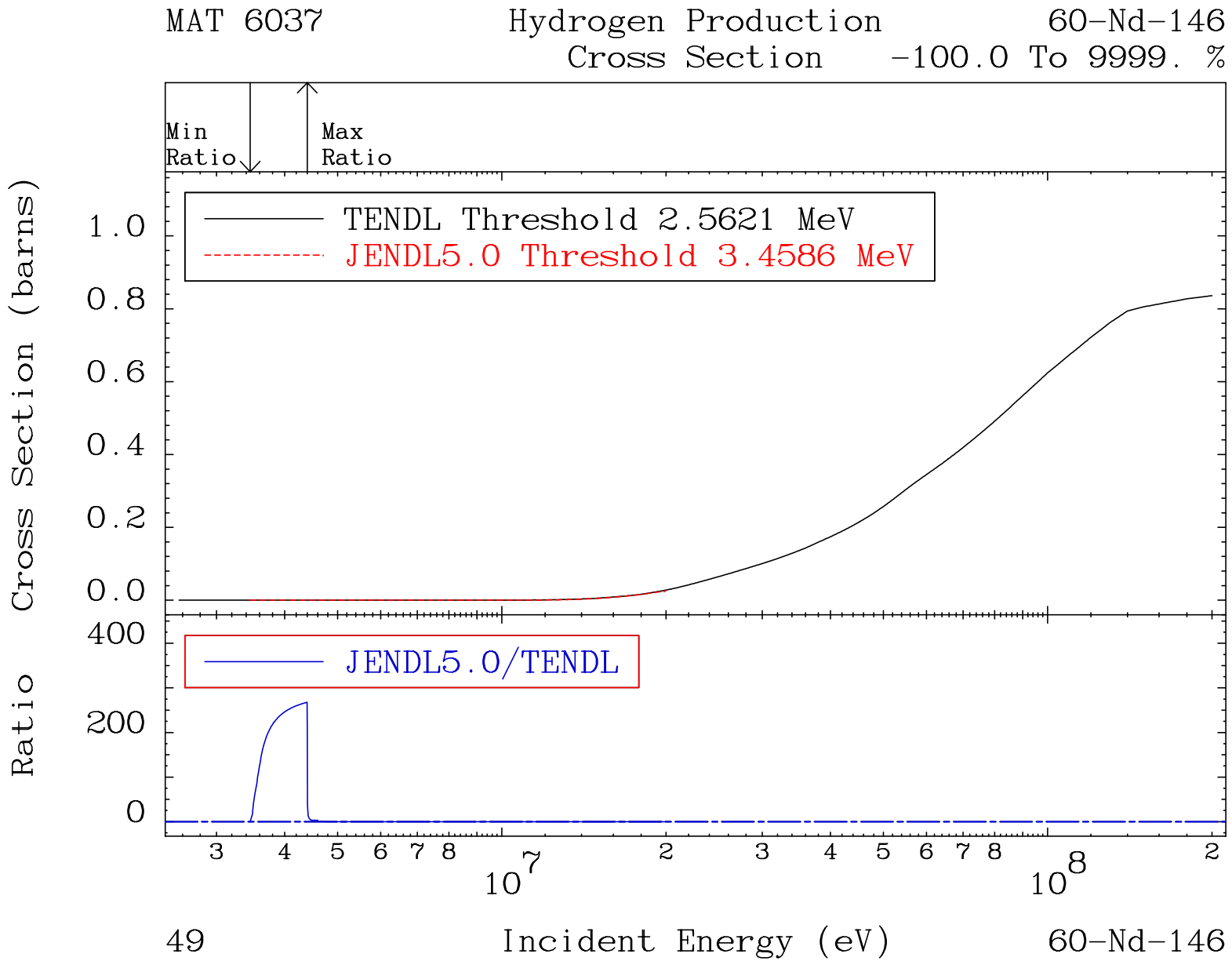

MAT 6037
(n,p)
60-Nd-146
Cross Section
-49.52 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4941 MeV
JENDL5.0 Threshold 3.4586 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^6
10^3
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
60-Nd-146

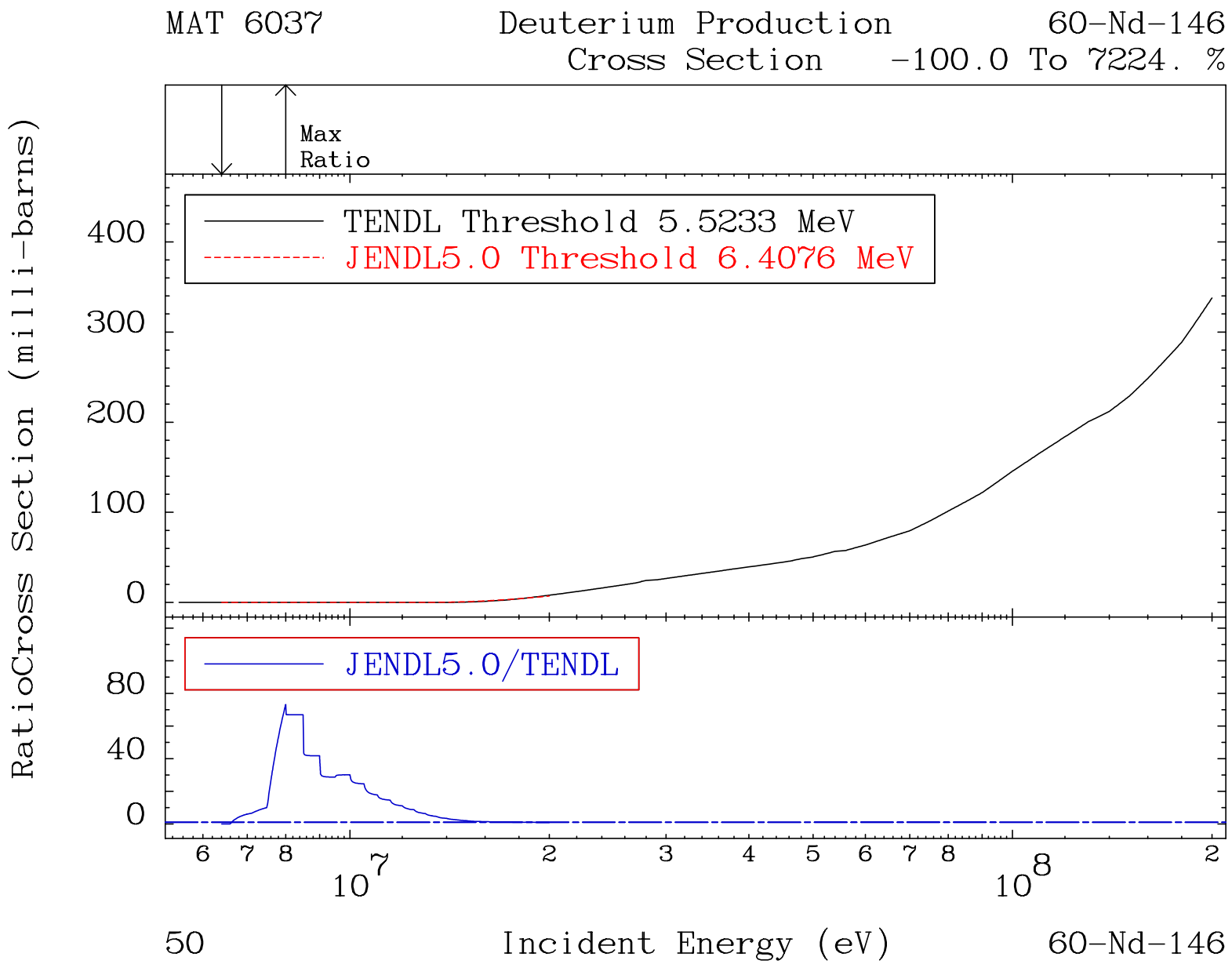

MAT 6037
(n,d)
60-Nd-146
Cross Section
-99.95 To 8555. %
Max
Ratio
TENDL Threshold 6.4083 MeV
JENDL5.0 Threshold 6.4076 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^3
10^0
10^-3
7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
60-Nd-146

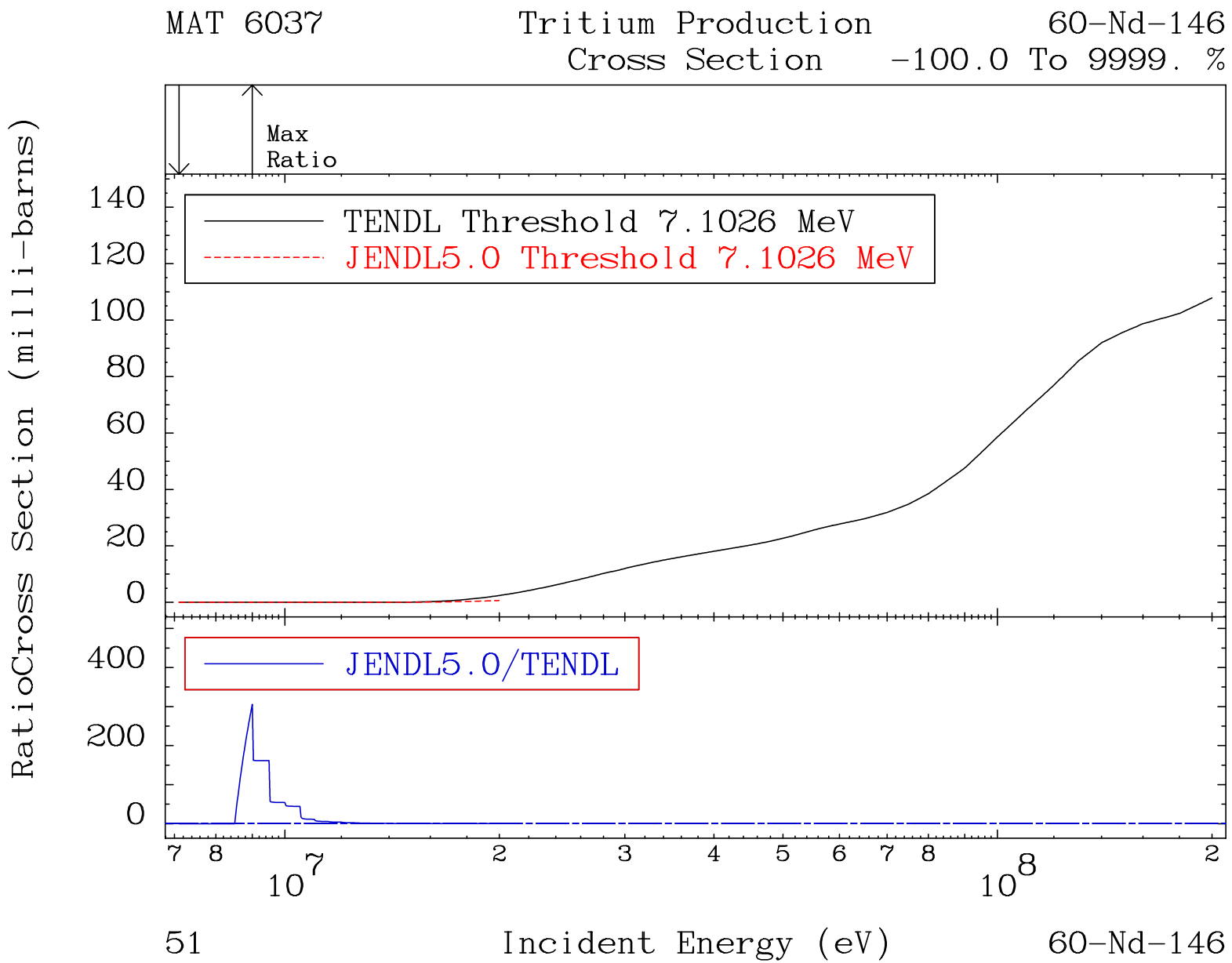

MAT 6037
(n,t)
60-Nd-146
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.1026 MeV
JENDL5.0 Threshold 7.1026 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
46
60-Nd-146

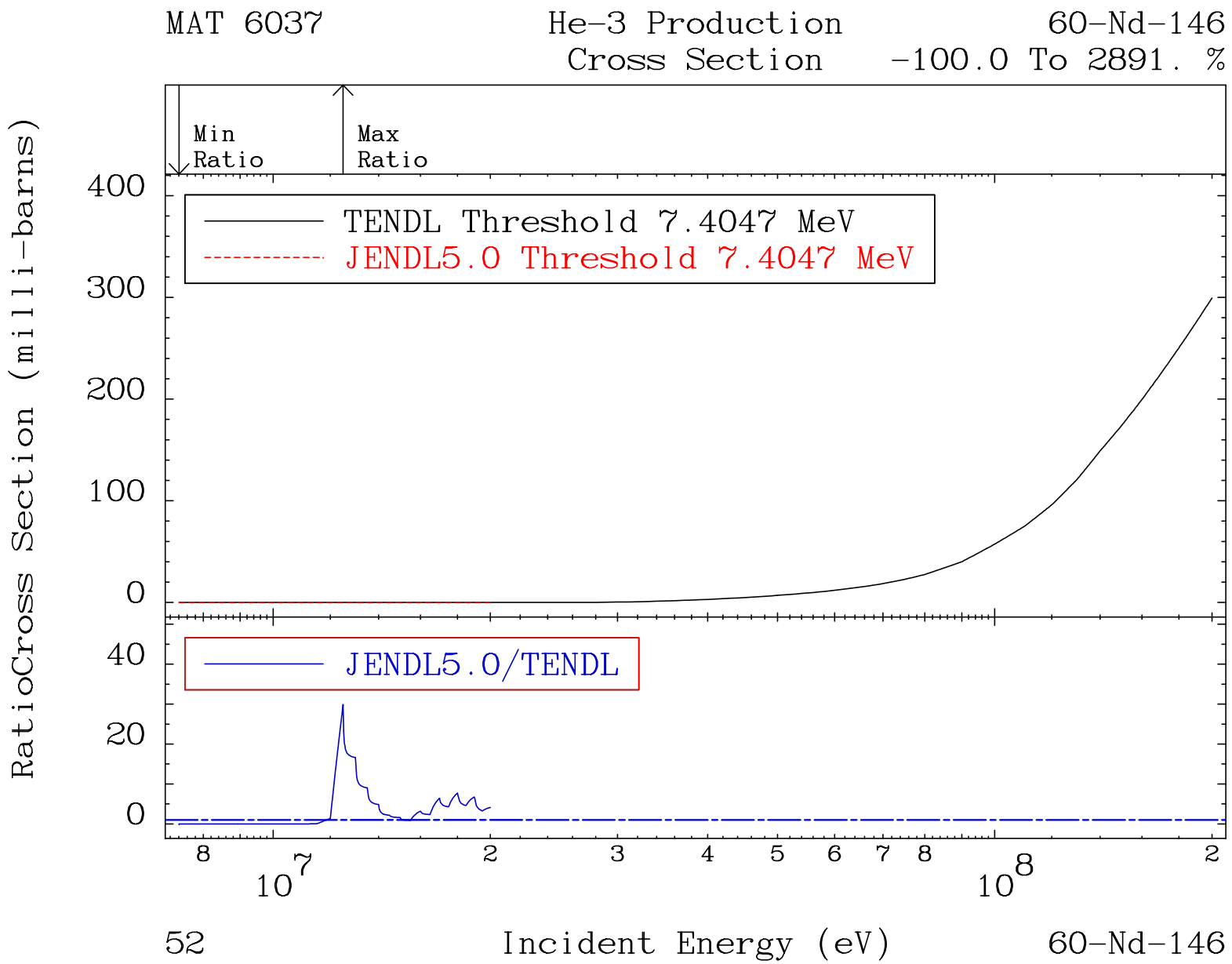

MAT 6037
(n,He-3)
60-Nd-146
Cross Section
-100.0 To 2891. %
Min Ratio
Max Ratio
TENDL Threshold 7.4047 MeV
JENDL5.0 Threshold 7.4047 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
40
20
0
8
2
3
4
5
6
7
8
2
10^7
10^8
47
Incident Energy (eV)
60-Nd-146

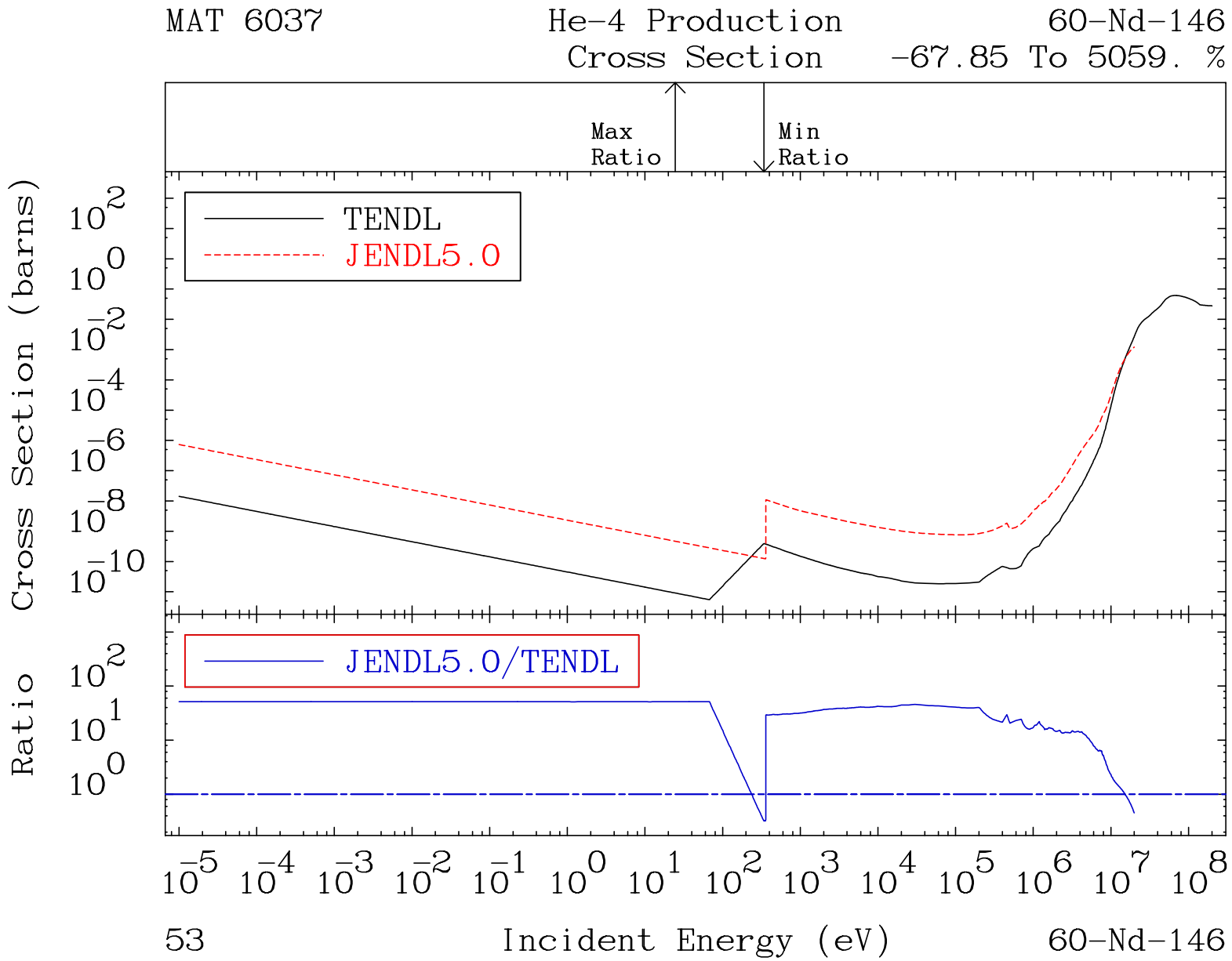

MAT 6037
(n,α)
60-Nd-146
Cross Section
-67.85 To 5059. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
48
60-Nd-146

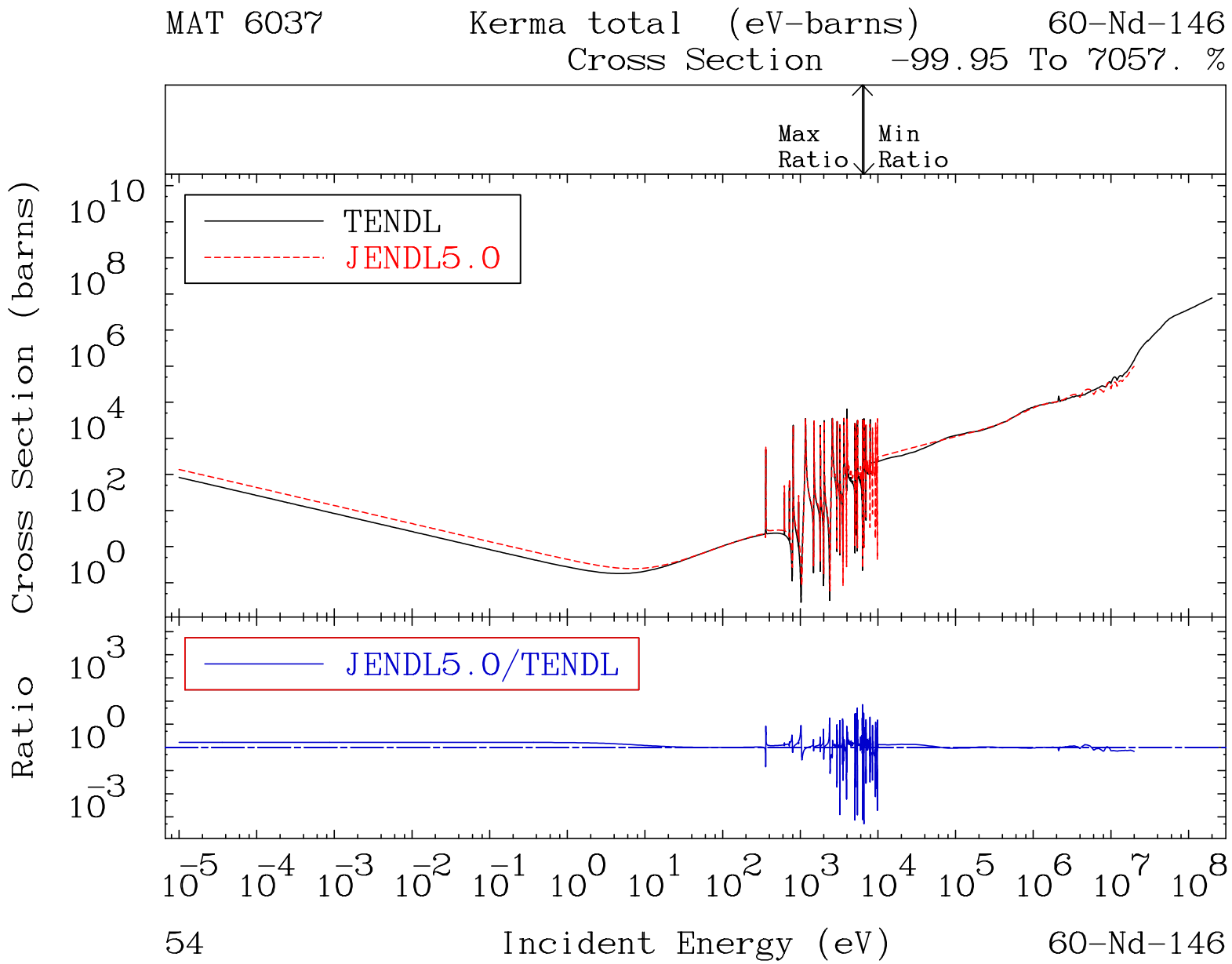

MAT 6037
Hydrogen Production
60-Nd-146
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5621 MeV
JENDL5.0 Threshold 3.4586 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
60-Nd-146

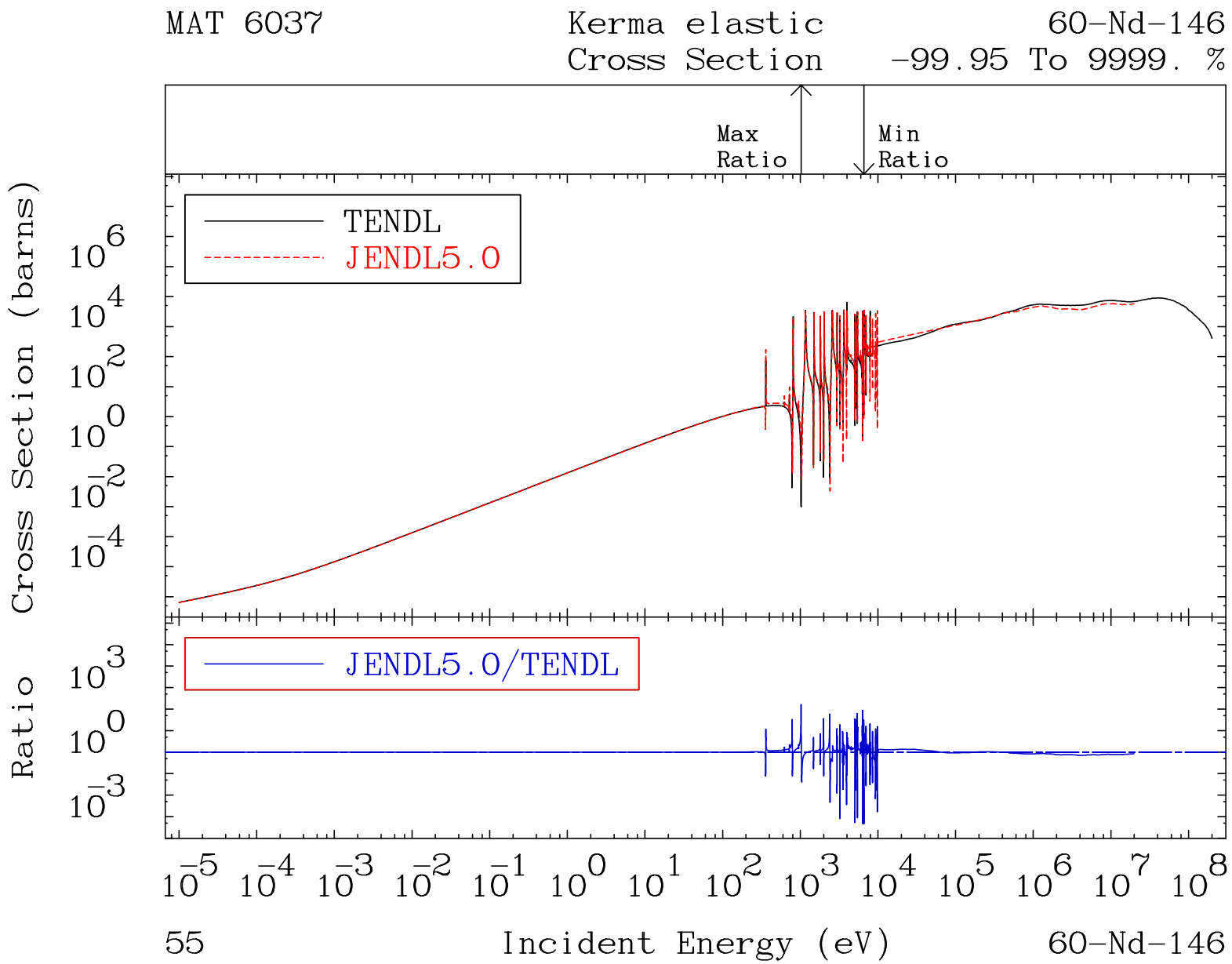

MAT 6037
Deuterium Production
60-Nd-146
Cross Section
-100.0 To 7224. %
Max
Ratio
TENDL Threshold 5.5233 MeV
JENDL5.0 Threshold 6.4076 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
80
40
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
60-Nd-146

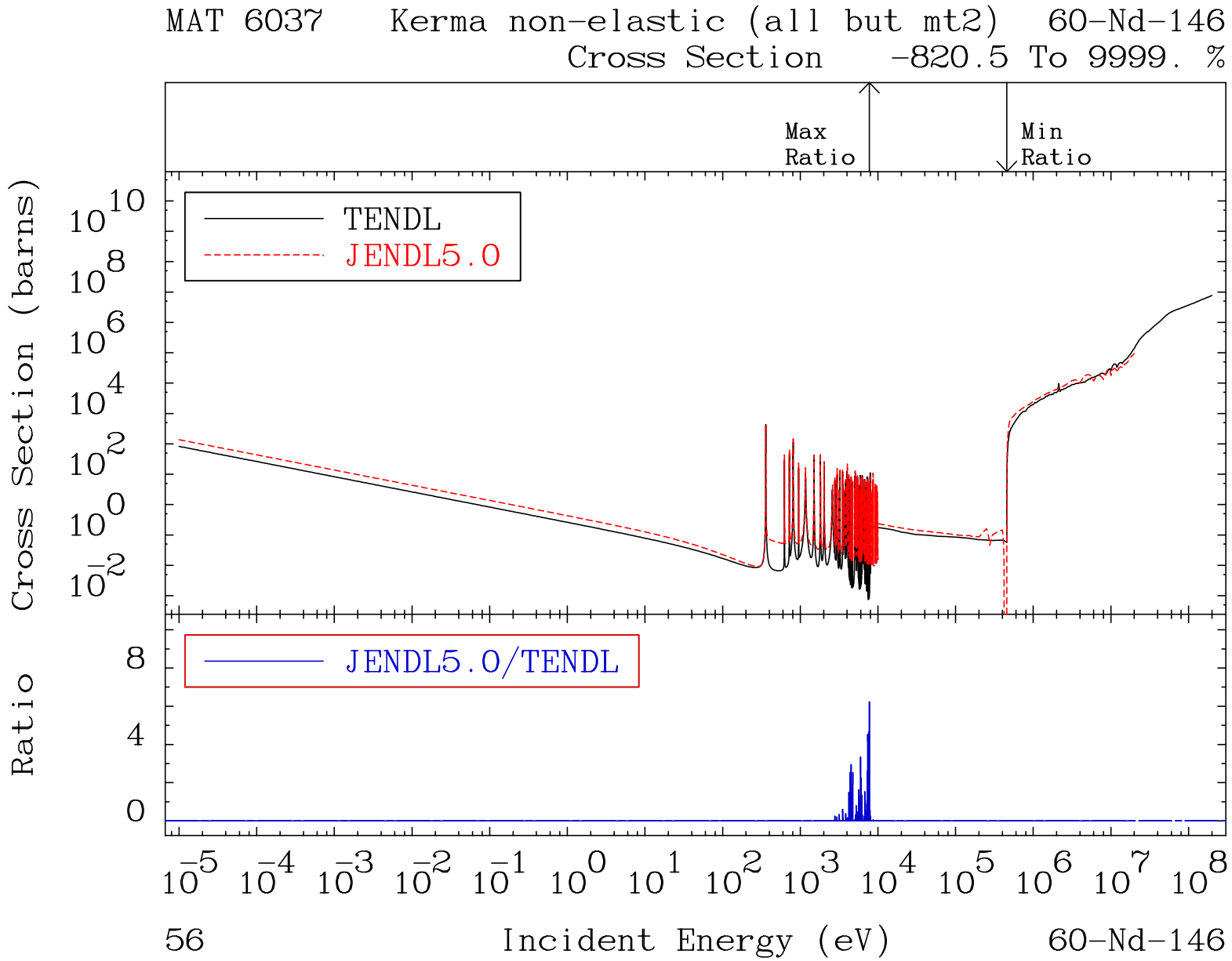

MAT 6037
Tritium Production
60-Nd-146
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.1026 MeV
JENDL5.0 Threshold 7.1026 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
51
Incident Energy (eV)
60-Nd-146

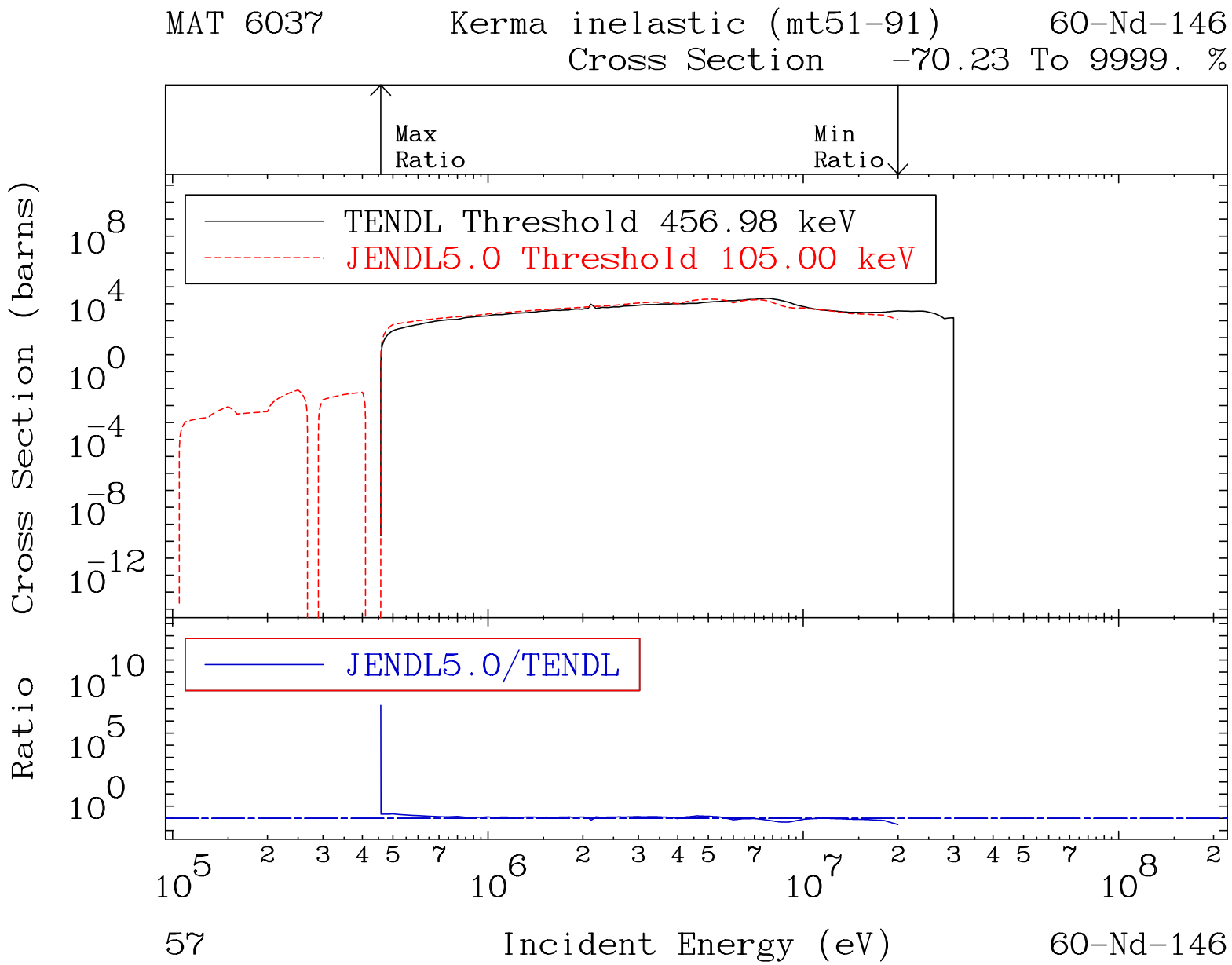

MAT 6037
He-3 Production
Cross Section
60-Nd-146
-100.0 To 2891. %
Min Ratio
Max Ratio
TENDL Threshold 7.4047 MeV
JENDL5.0 Threshold 7.4047 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
40
20
0
8
2
3
4
5
6
7
8
2
10^7
10^8
52
Incident Energy (eV)
60-Nd-146

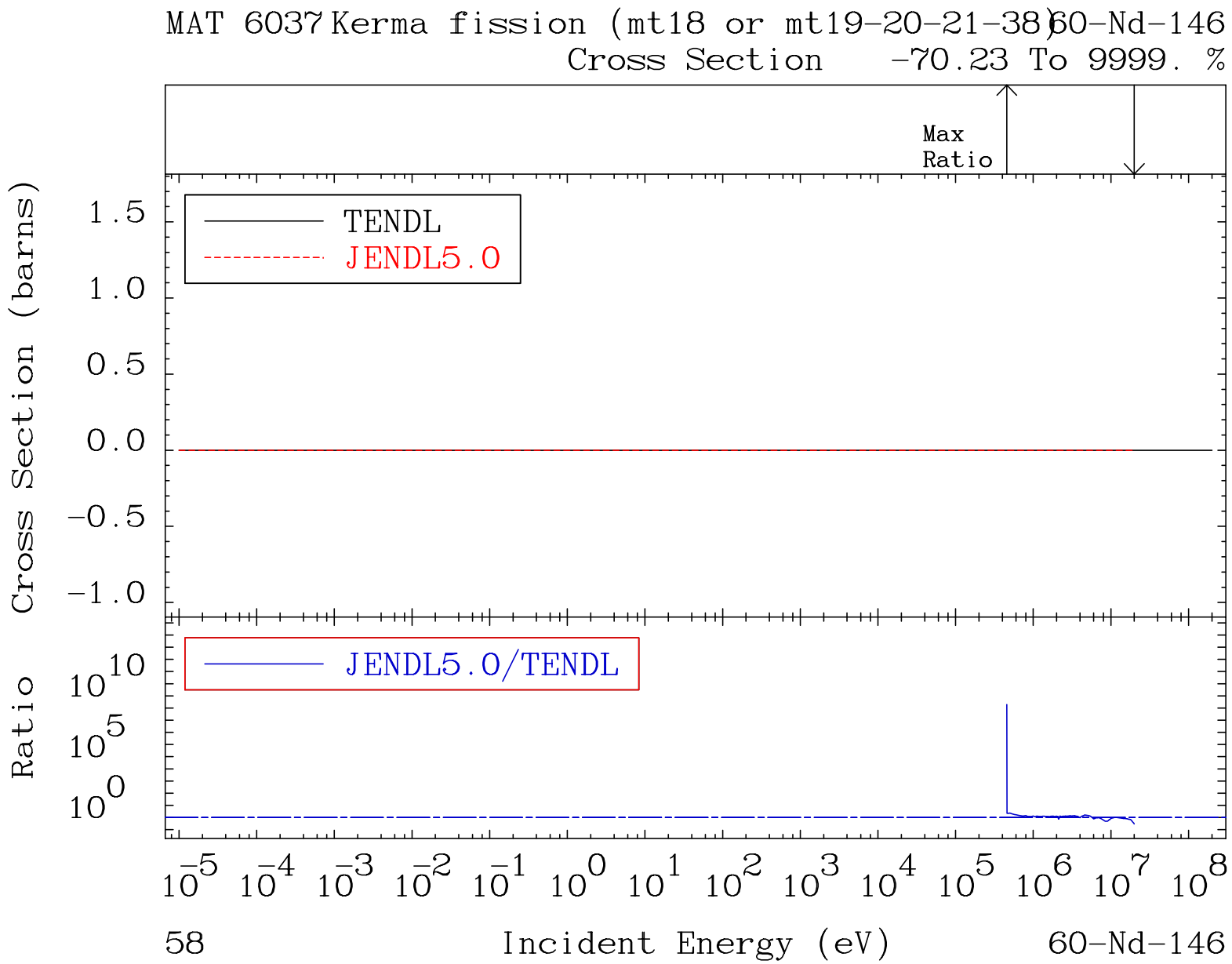

MAT 6037
He-4 Production
Cross Section
60-Nd-146
-67.85 To 5059. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
60-Nd-146

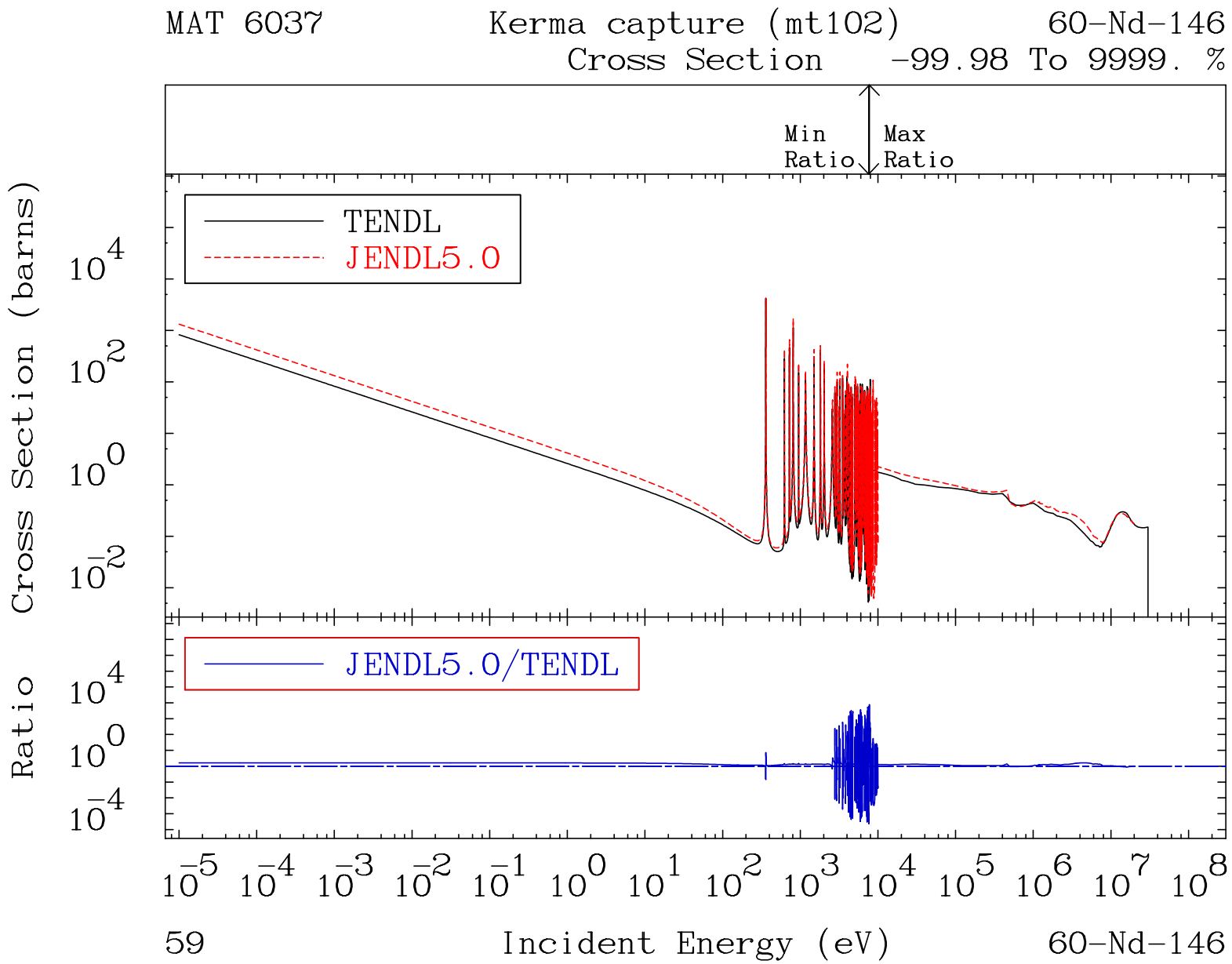

MAT 6037
Kerma total (eV-barns)
60-Nd-146
Cross Section -99.95 To 7057. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
60-Nd-146

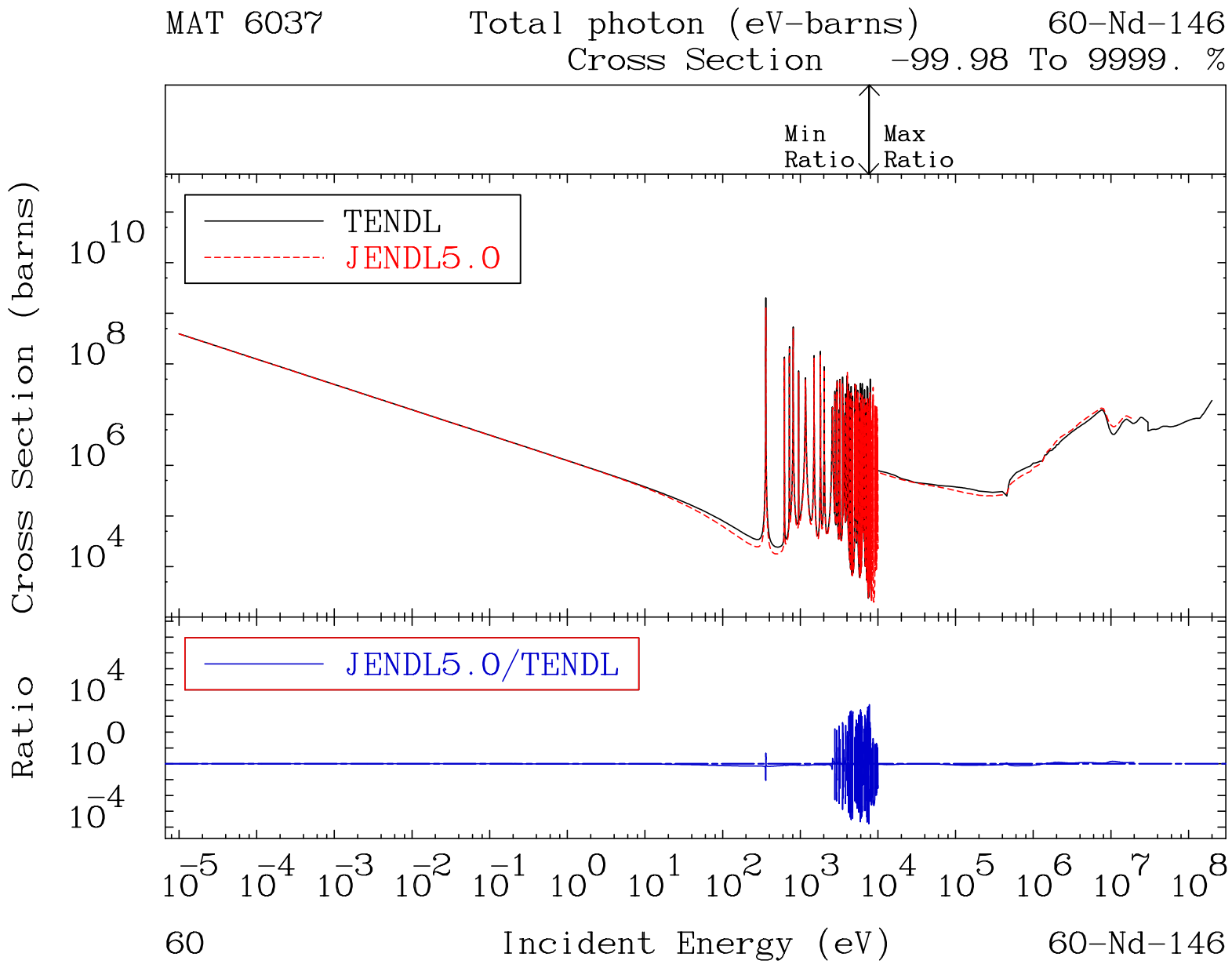

MAT 6037
Kerma elastic
Cross Section
60-Nd-146
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
60-Nd-146

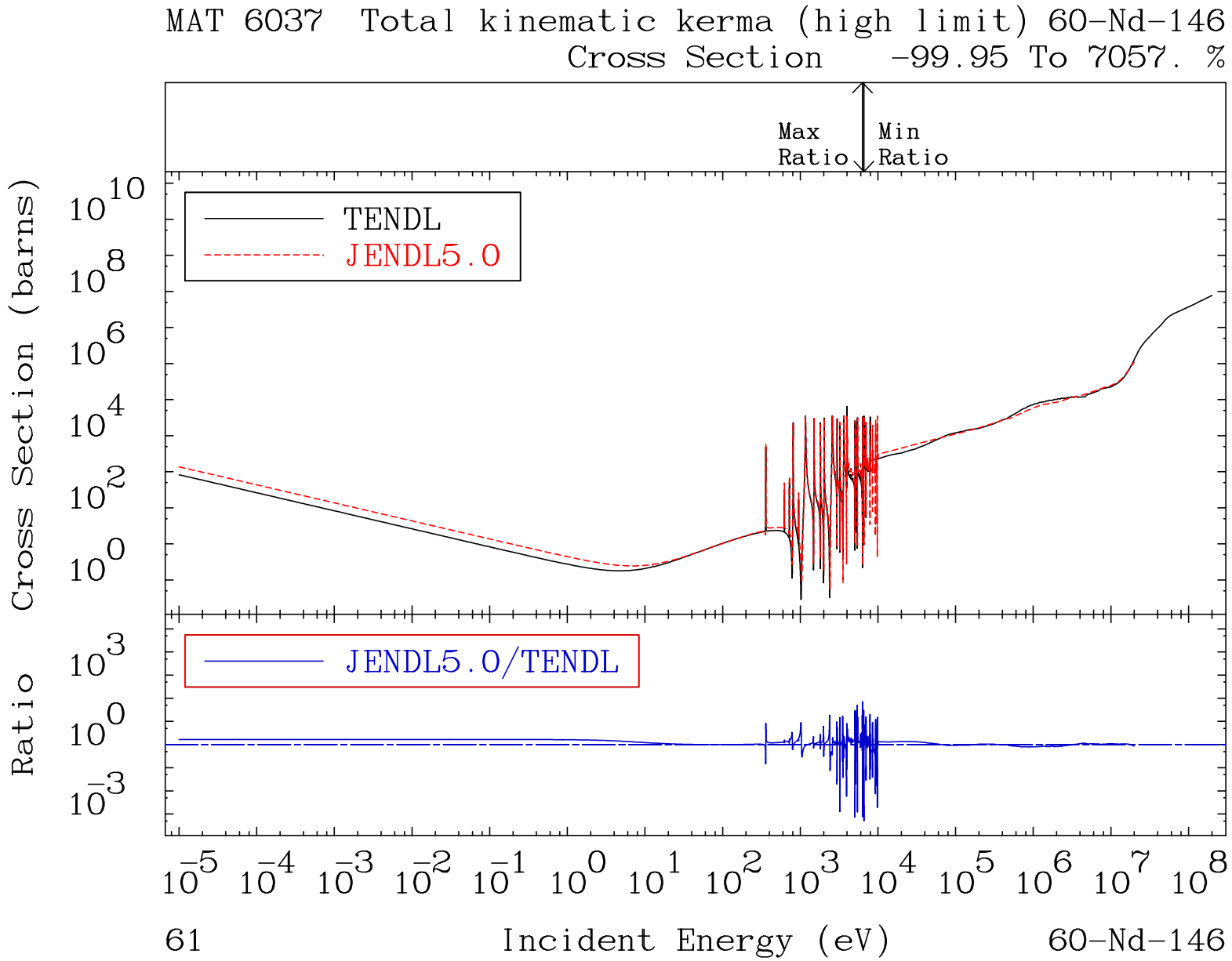

MAT 6037 Kerma non-elastic (all but mt2) 60-Nd-146
Cross Section -820.5 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
60-Nd-146

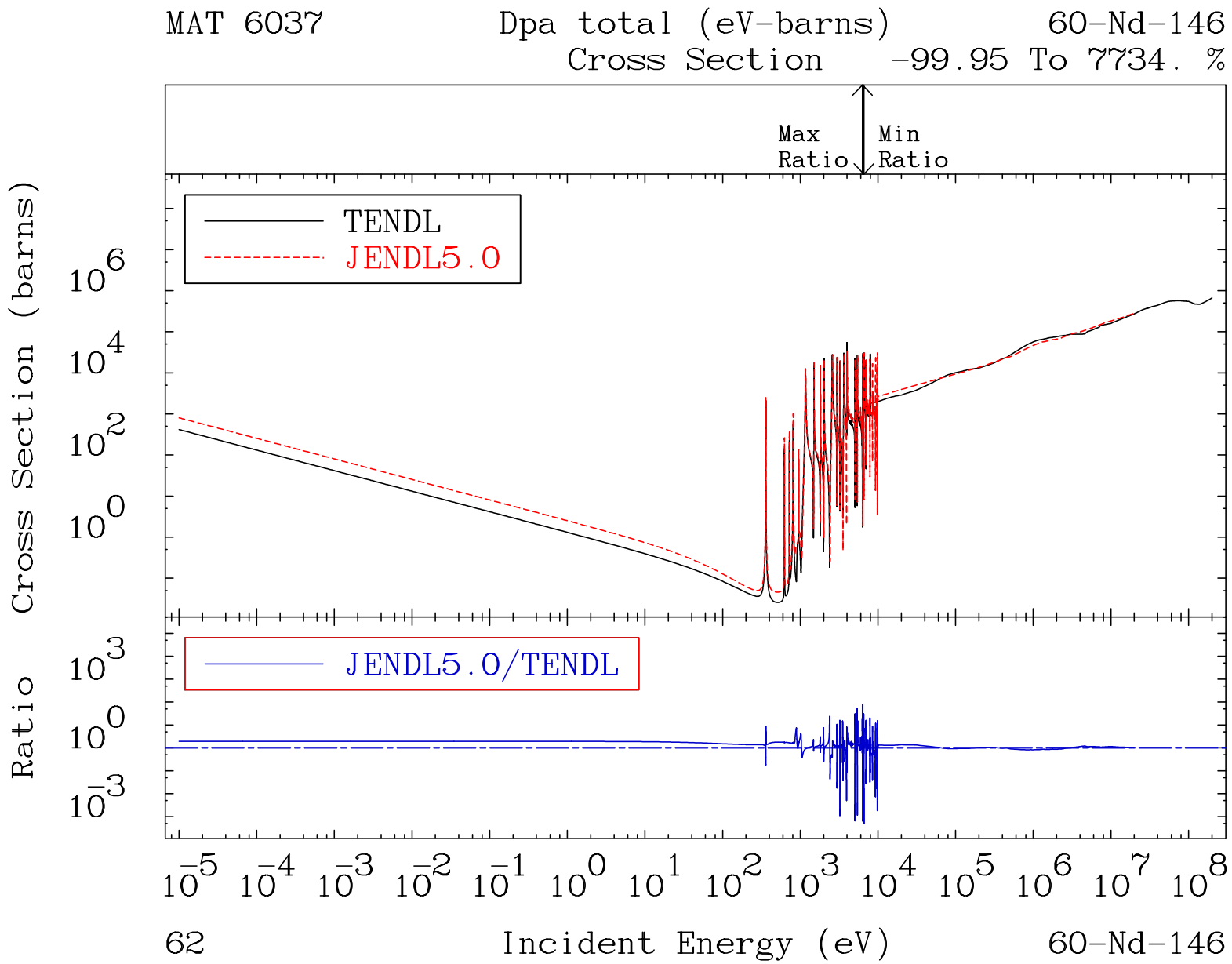

MAT 6037
Kerma inelastic (mt51-91)
60-Nd-146
Cross Section -70.23 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 456.98 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
60-Nd-146

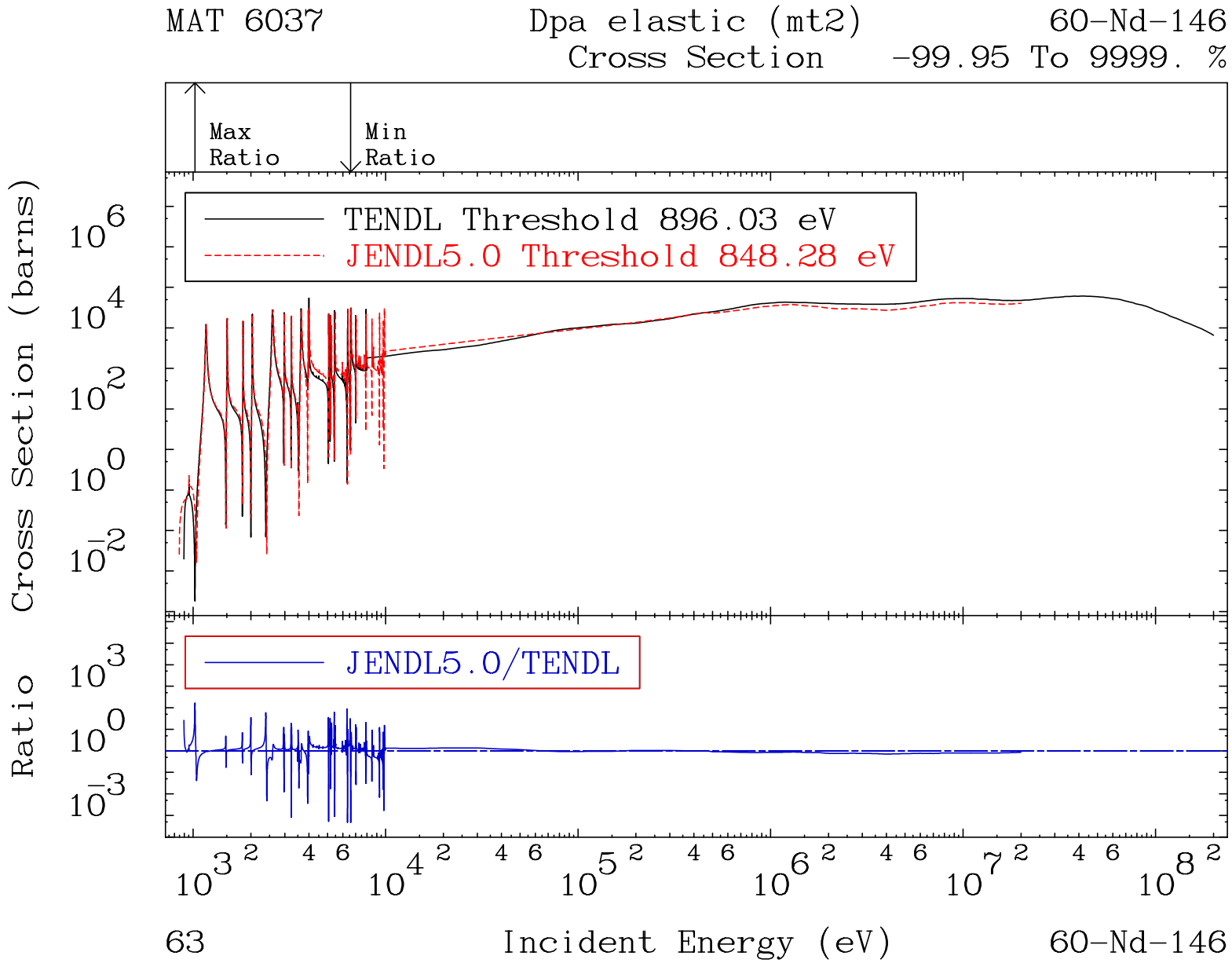

MAT 6037 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-146
Cross Section -70.23 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^10
10^5
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
58
Incident Energy (eV)
60-Nd-146

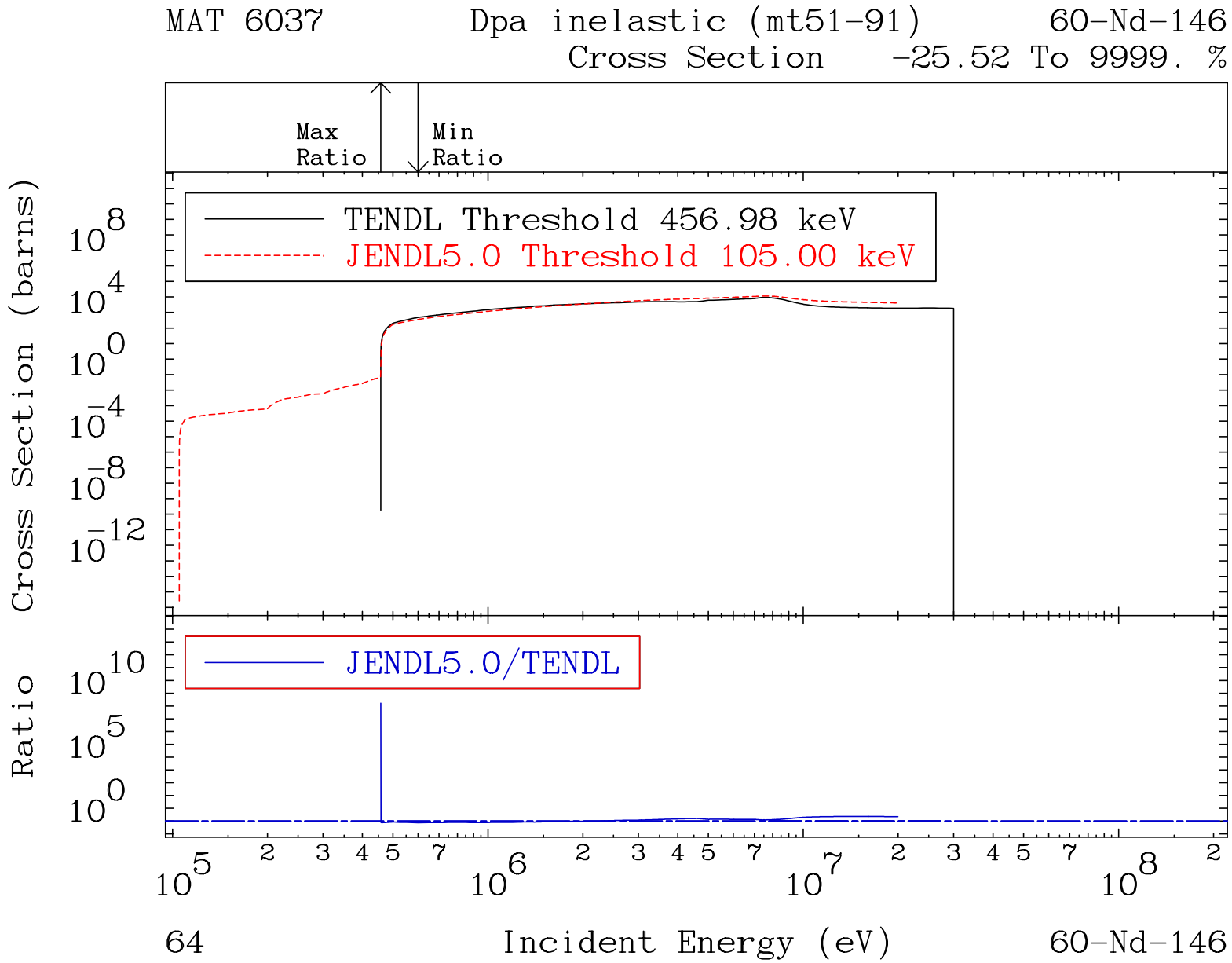

MAT 6037
Kerma capture (mt102)
60-Nd-146
Cross Section -99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
60-Nd-146

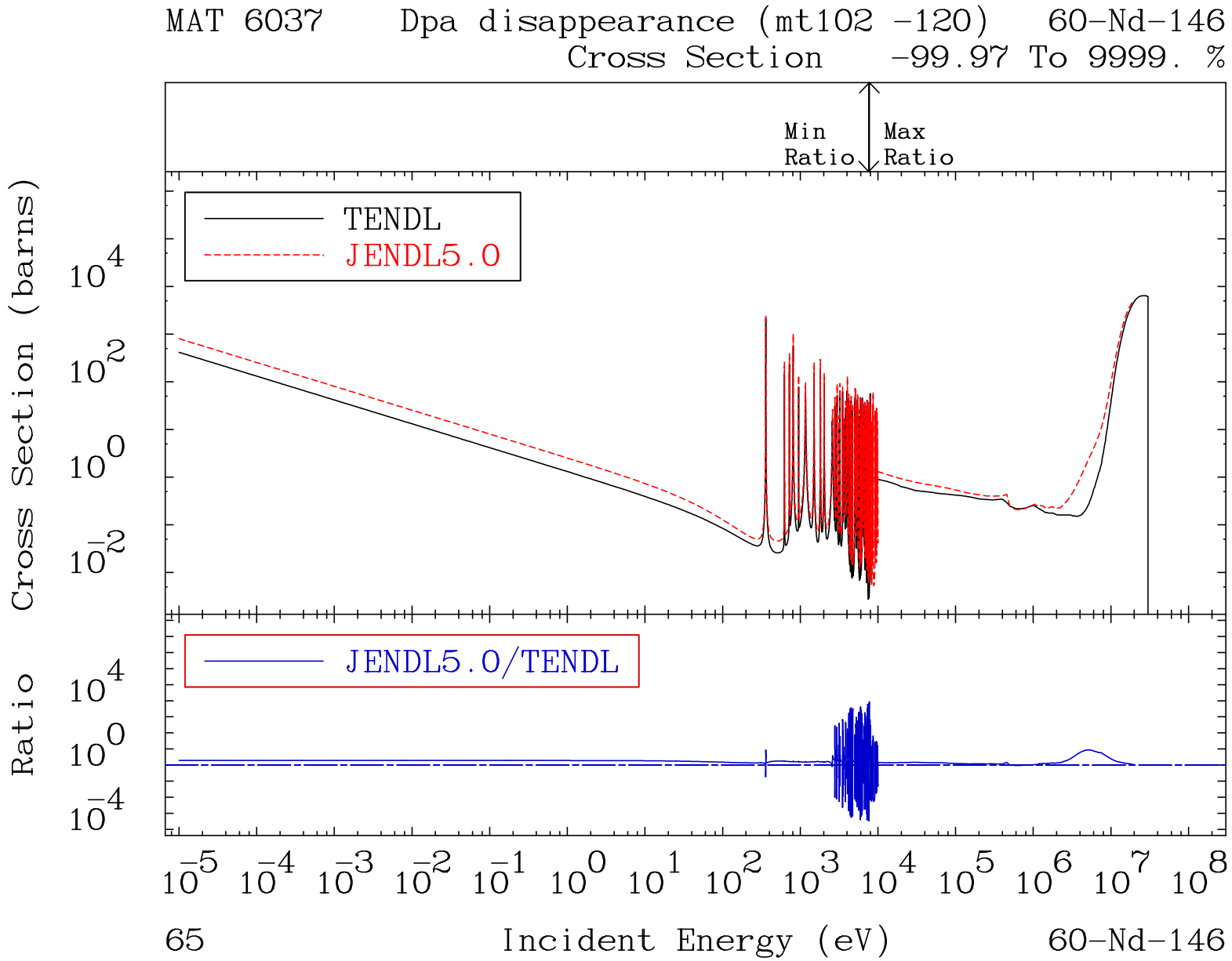

MAT 6037
Total photon (eV-barns)
60-Nd-146
Cross Section -99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
60-Nd-146

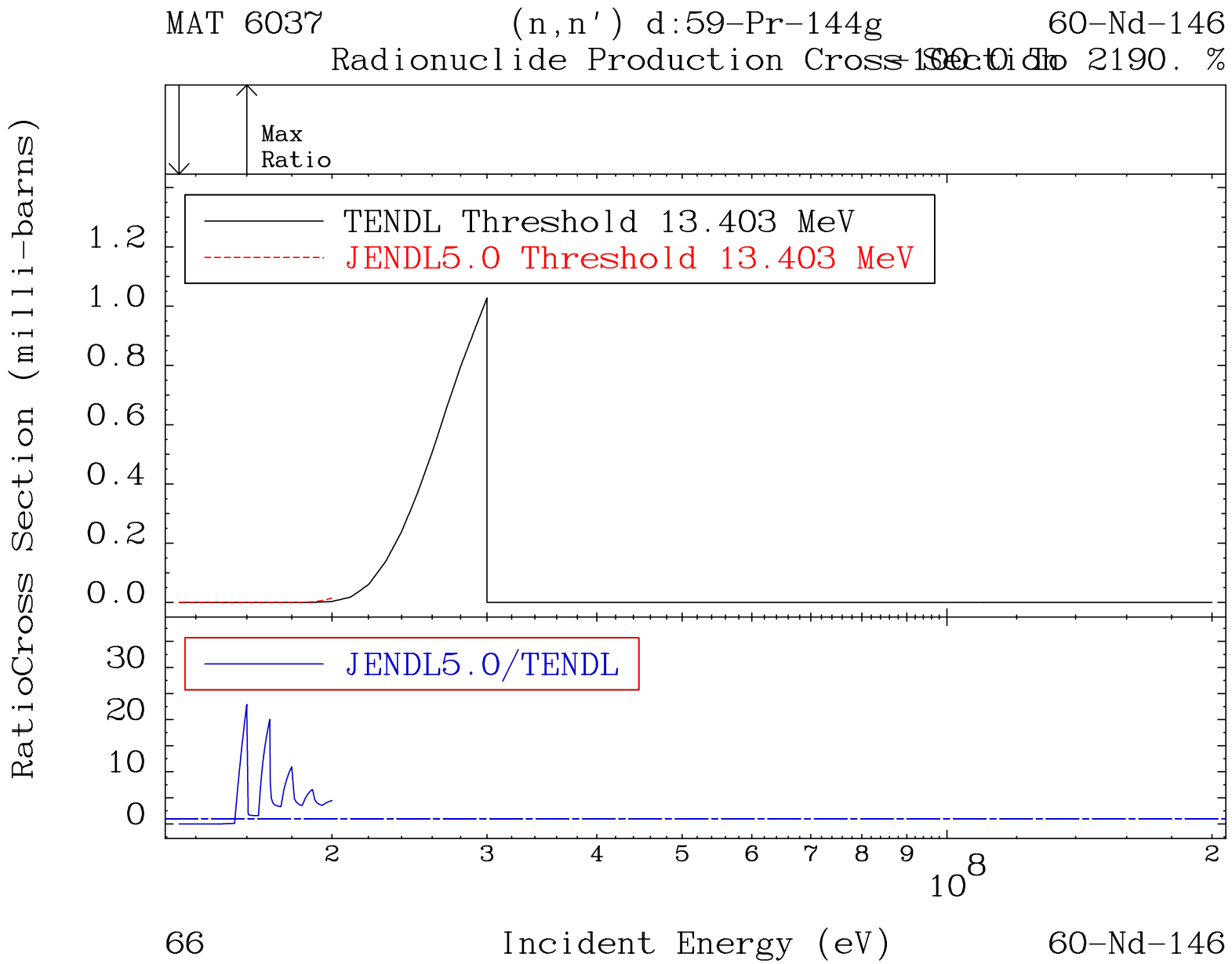

MAT 6037 Total kinematic kerma (high limit) 60-Nd-146
Cross Section -99.95 To 7057. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
60-Nd-146

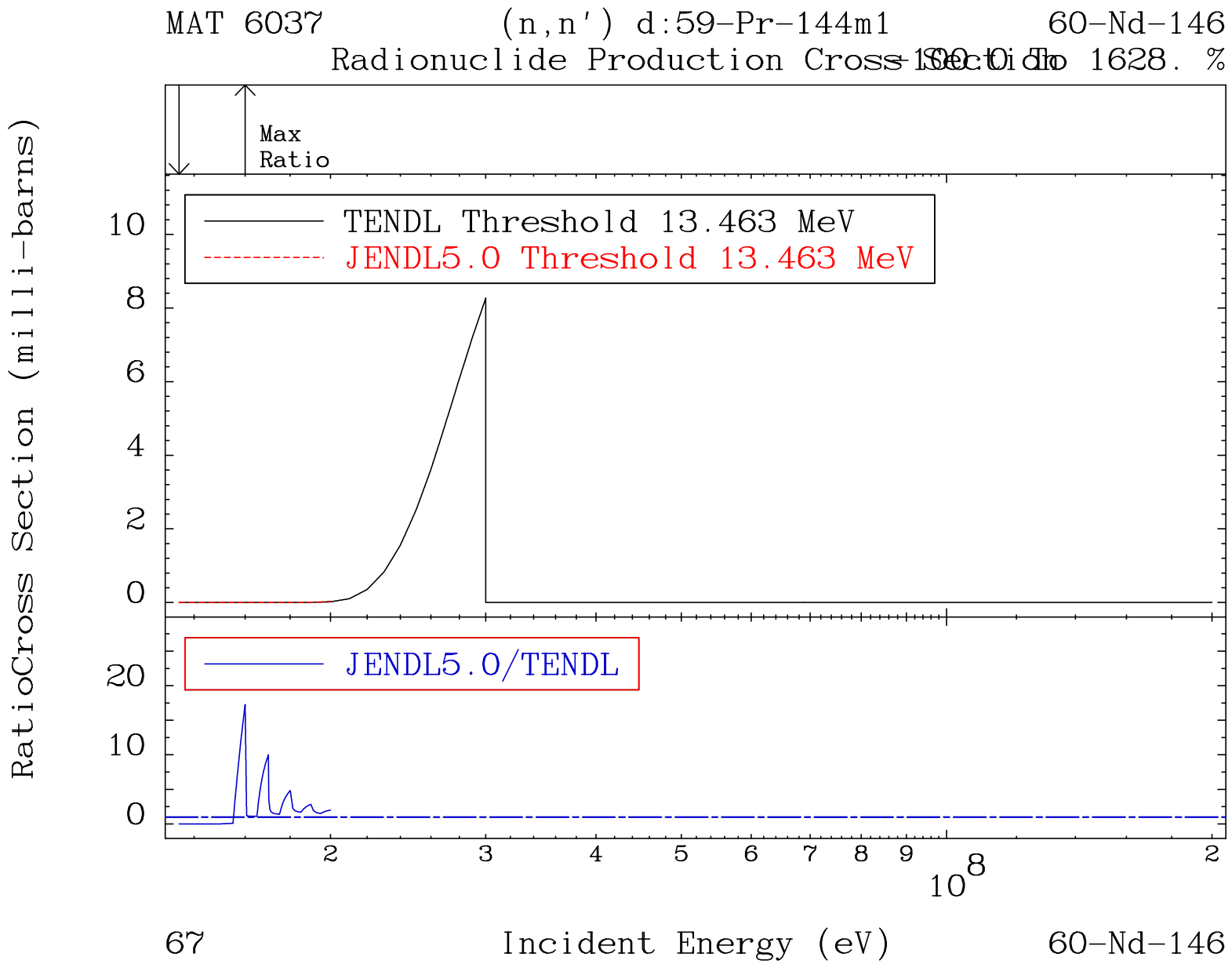

MAT 6037
Dpa total (eV-barns)
60-Nd-146
Cross Section
-99.95 To 7734. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
60-Nd-146

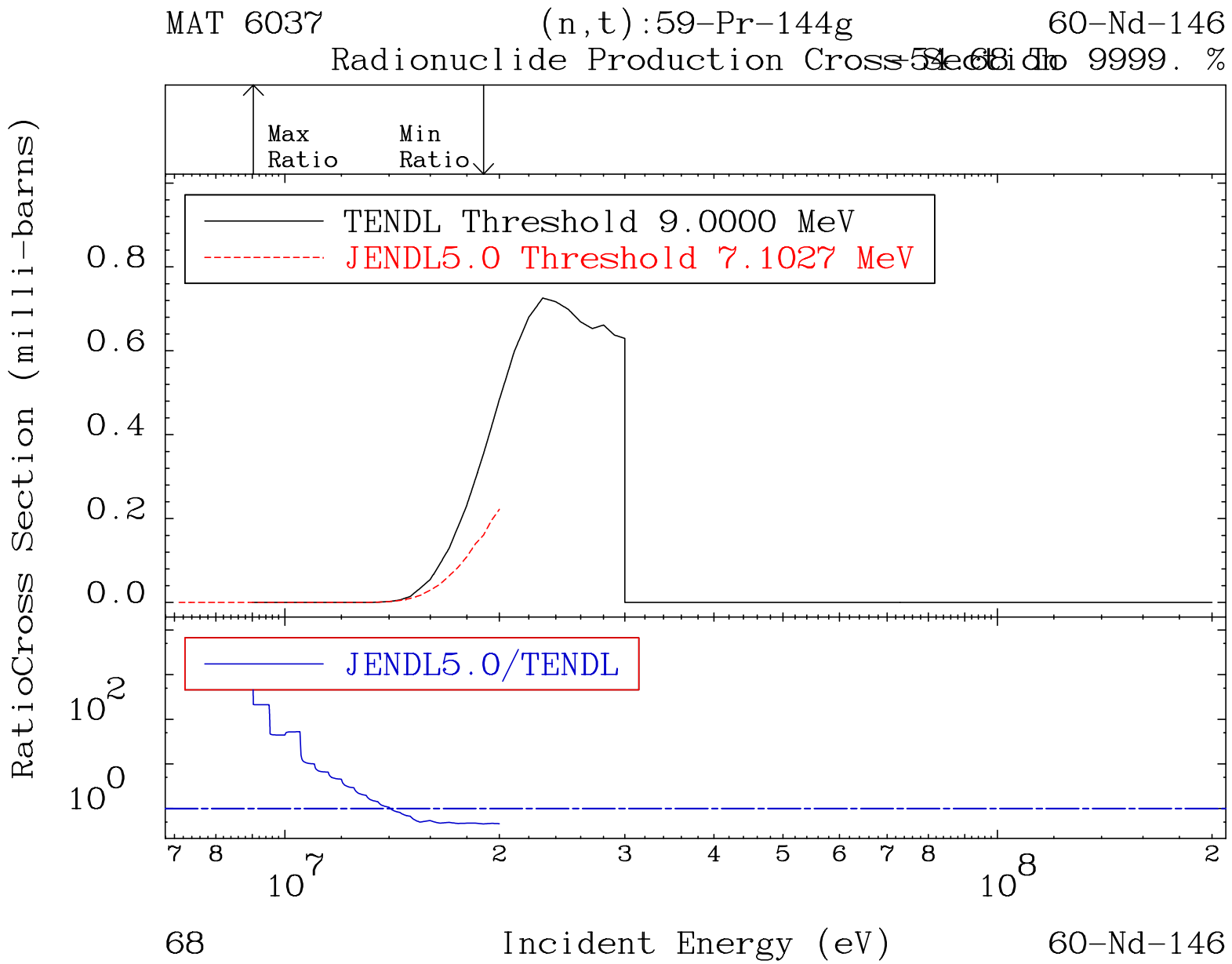

MAT 6037
Dpa elastic (mt2)
Cross Section
60-Nd-146
-99.95 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 896.03 eV
JENDL5.0 Threshold 848.28 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
60-Nd-146

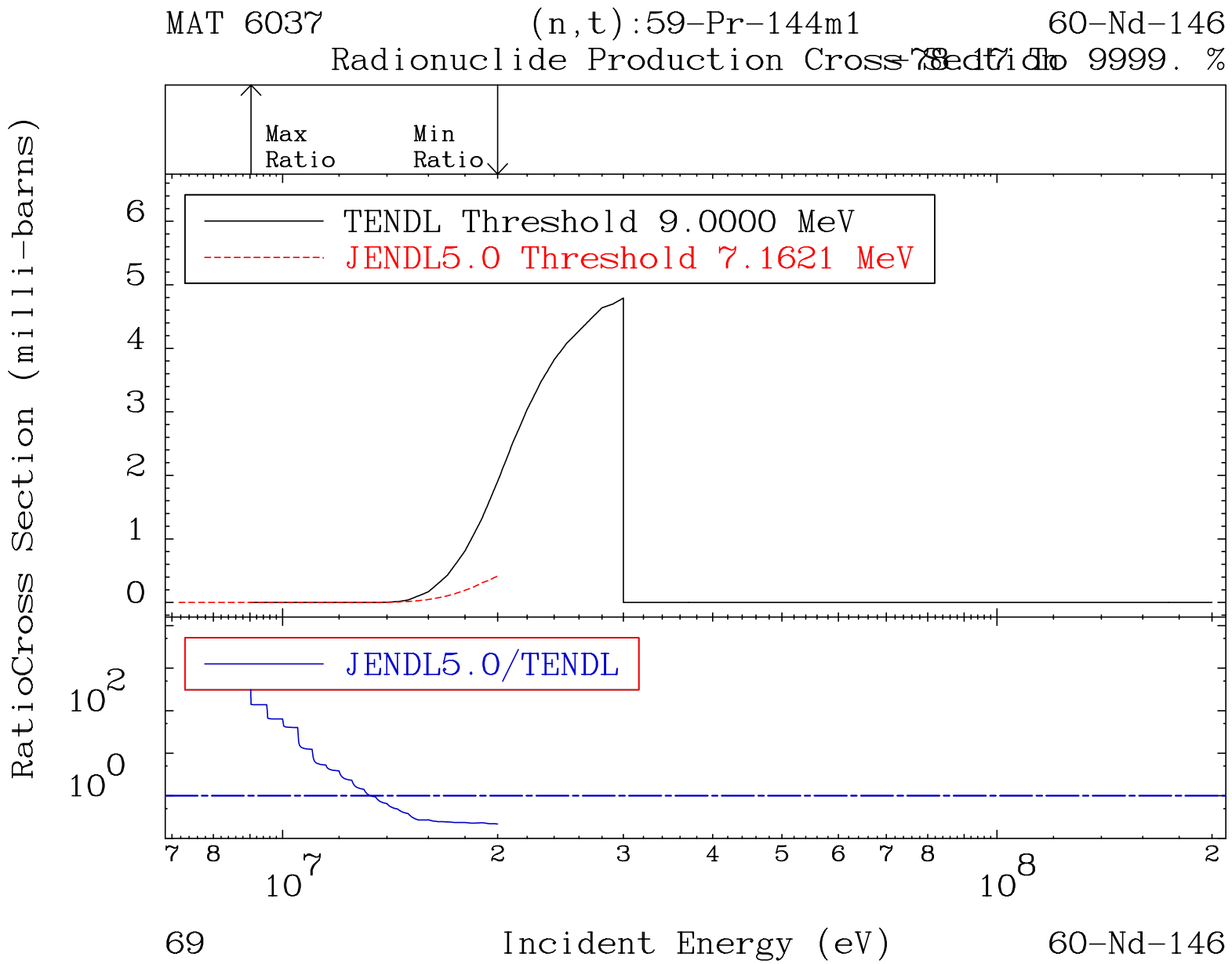

MAT 6037
Dpa inelastic (mt51-91)
60-Nd-146
Cross Section -25.52 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 456.98 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
60-Nd-146

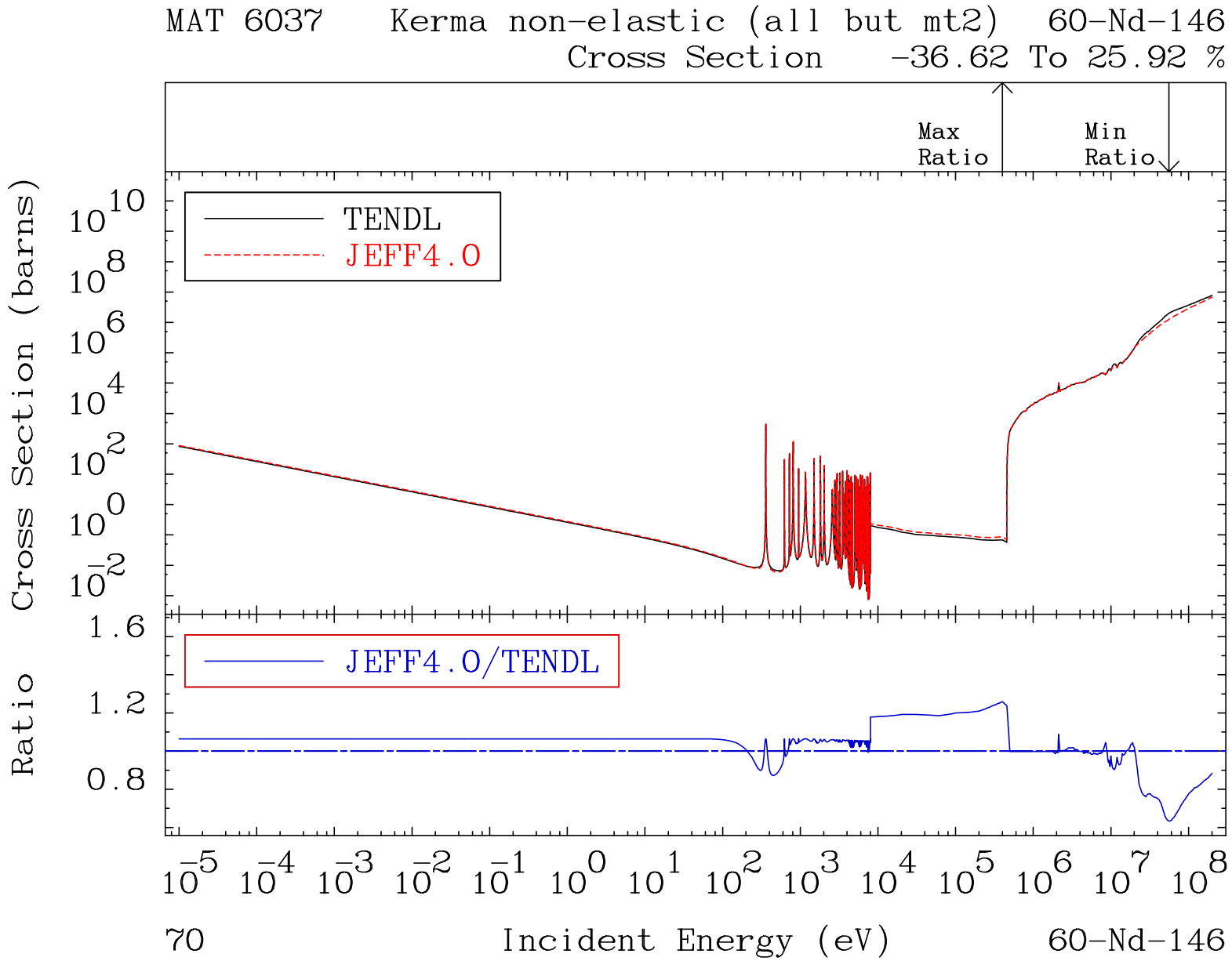

MAT 6037 Dpa disappearance (mt102 -120) 60-Nd-146
Cross Section -99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
60-Nd-146

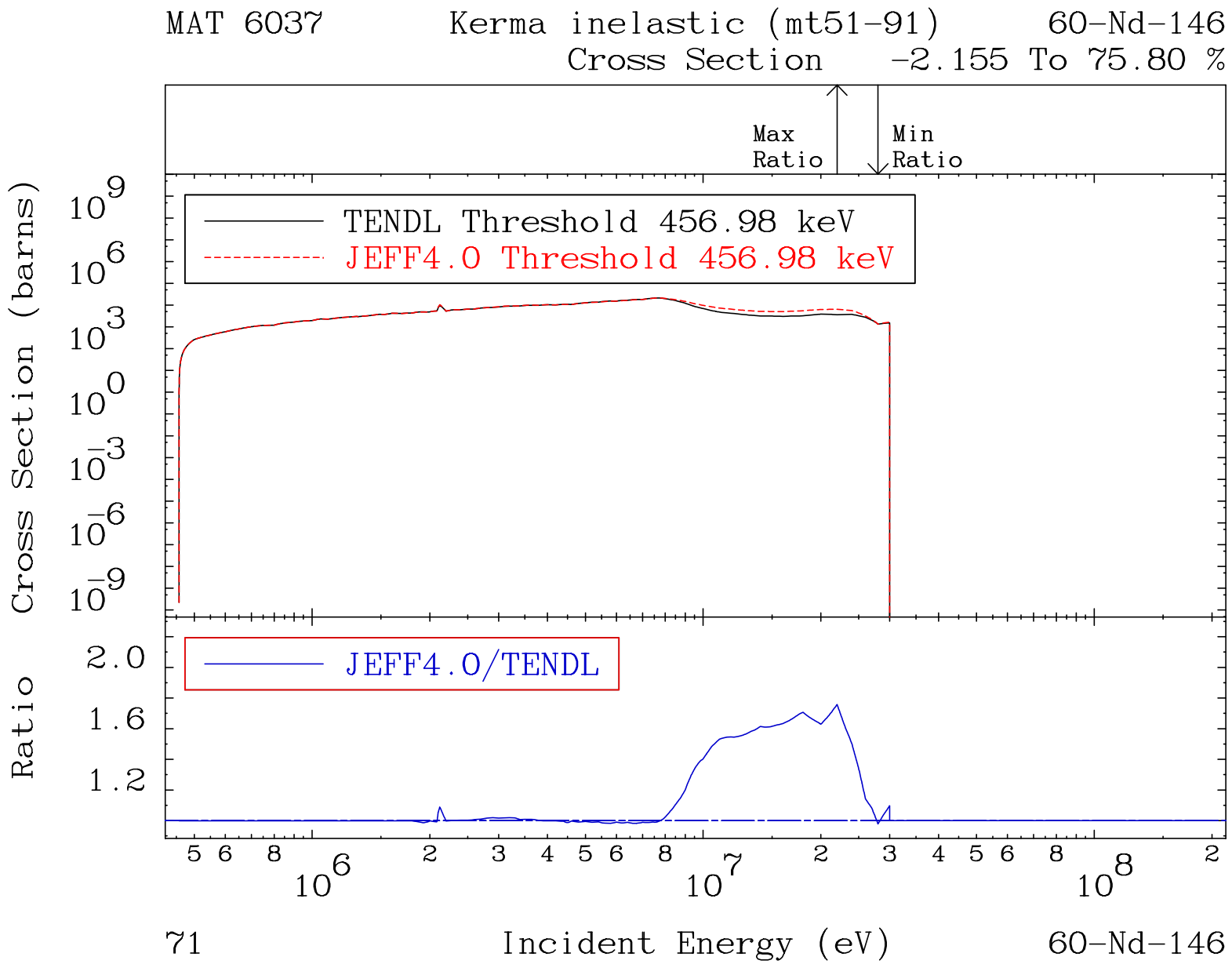

MAT 6037
(n,n') d:59-Pr-144g
60-Nd-146
Radionuclide Production Cross Section To 2190. %
Max
Ratio
TENDL Threshold 13.403 MeV
JENDL5.0 Threshold 13.403 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
30
20
10
0
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
60-Nd-146

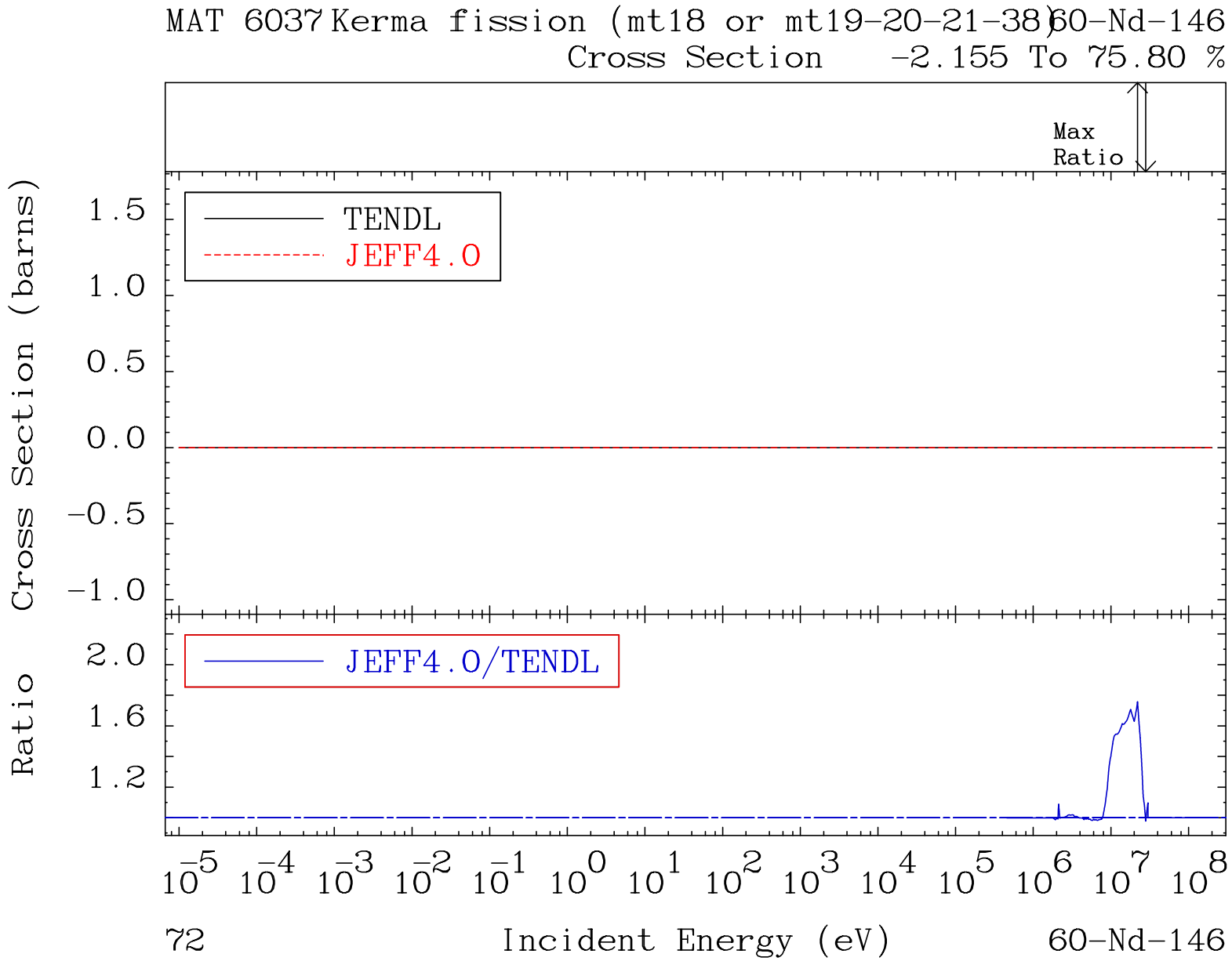

MAT 6037 (n,n') d:59-Pr-144m1 60-Nd-146
Radionuclide Production Cross Section To 1628. %
Max
Ratio
TENDL Threshold 13.463 MeV
JENDL5.0 Threshold 13.463 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
20
10
0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
60-Nd-146

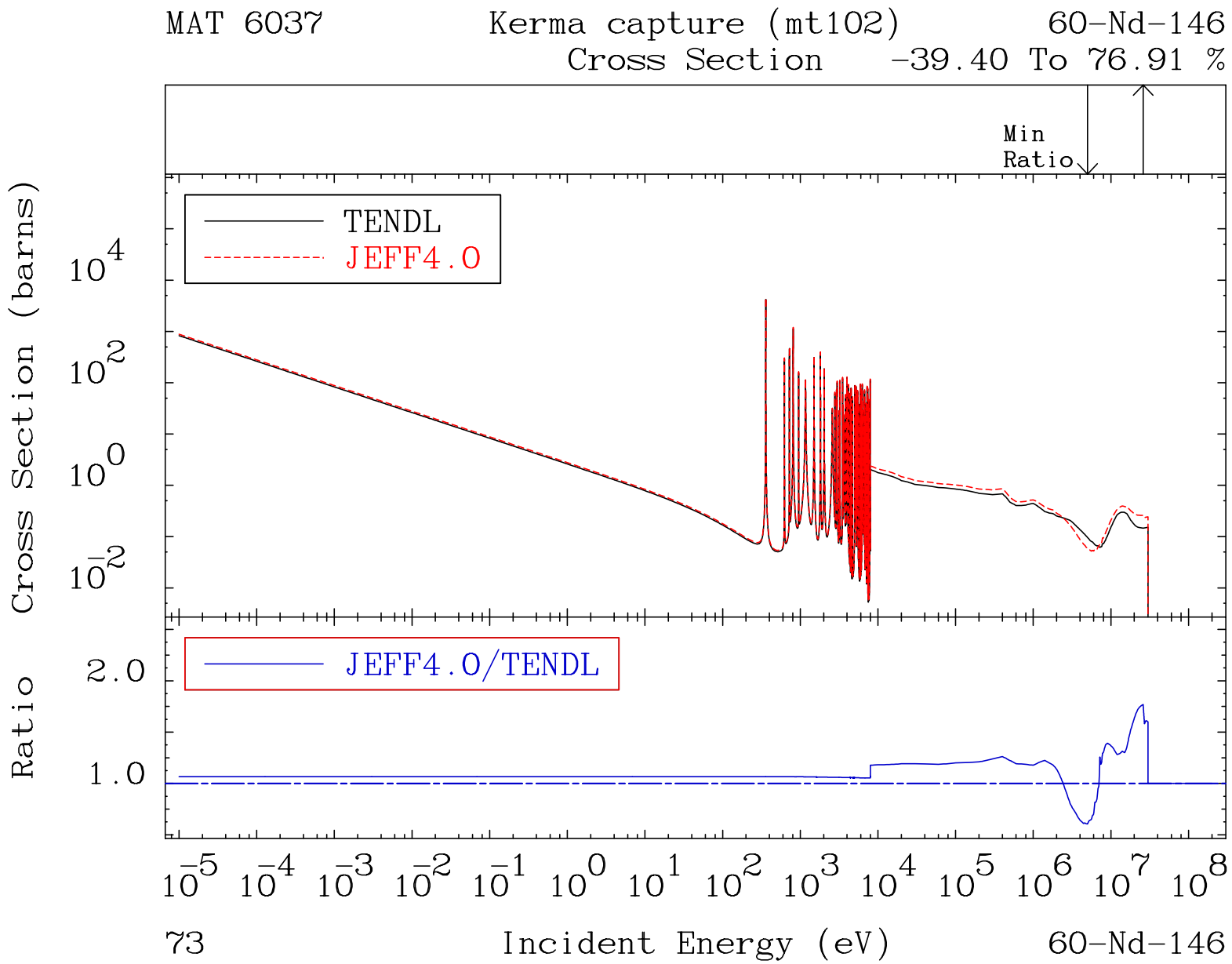

MAT 6037
(n,t):59-Pr-144g
60-Nd-146
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.0000 MeV
JENDL5.0 Threshold 7.1027 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0.8
0.6
0.4
0.2
0.0
10^2
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
68
Incident Energy (eV)
60-Nd-146

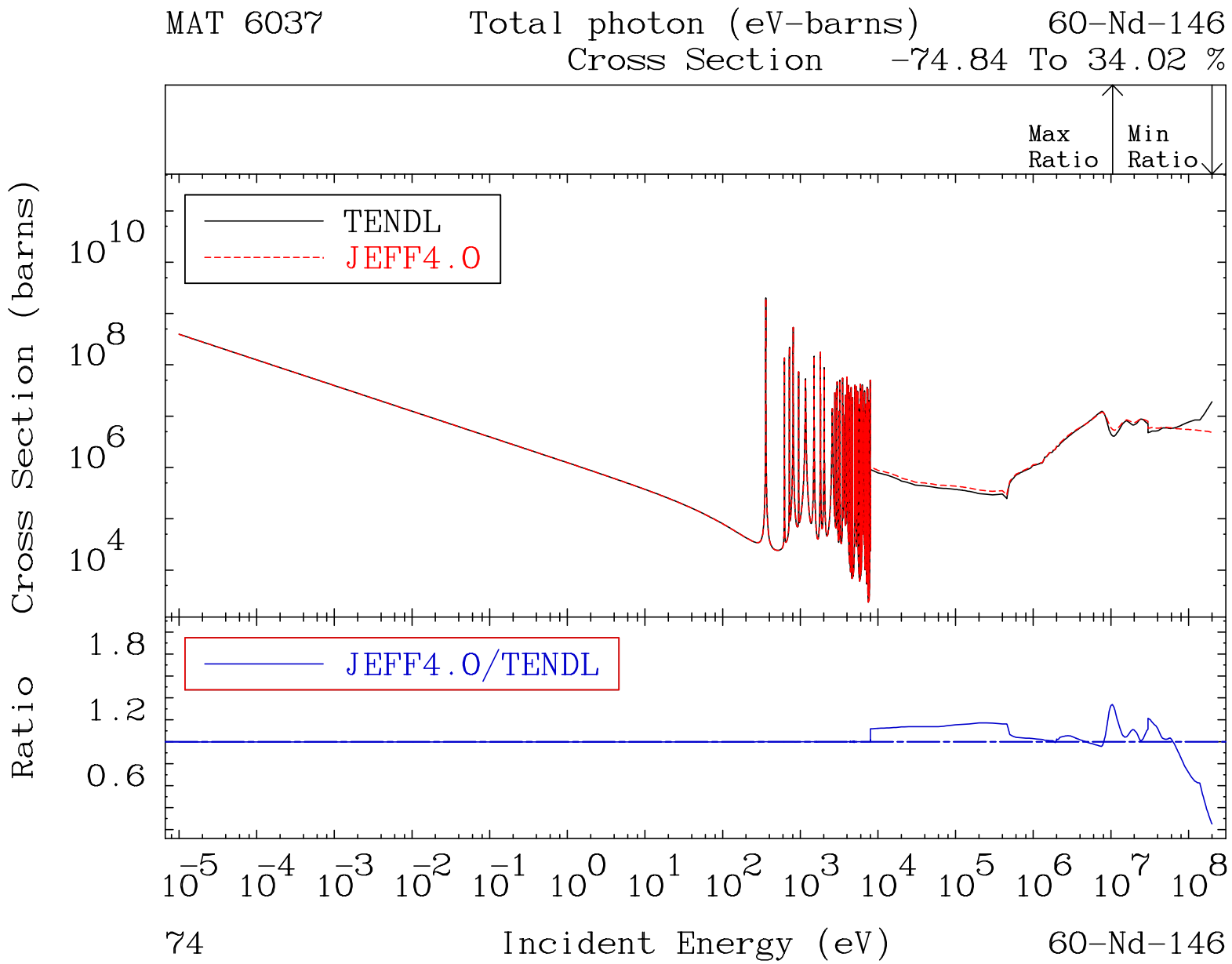

MAT 6037
(n,t):59-Pr-144m1
60-Nd-146
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.0000 MeV
JENDL5.0 Threshold 7.1621 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
60-Nd-146

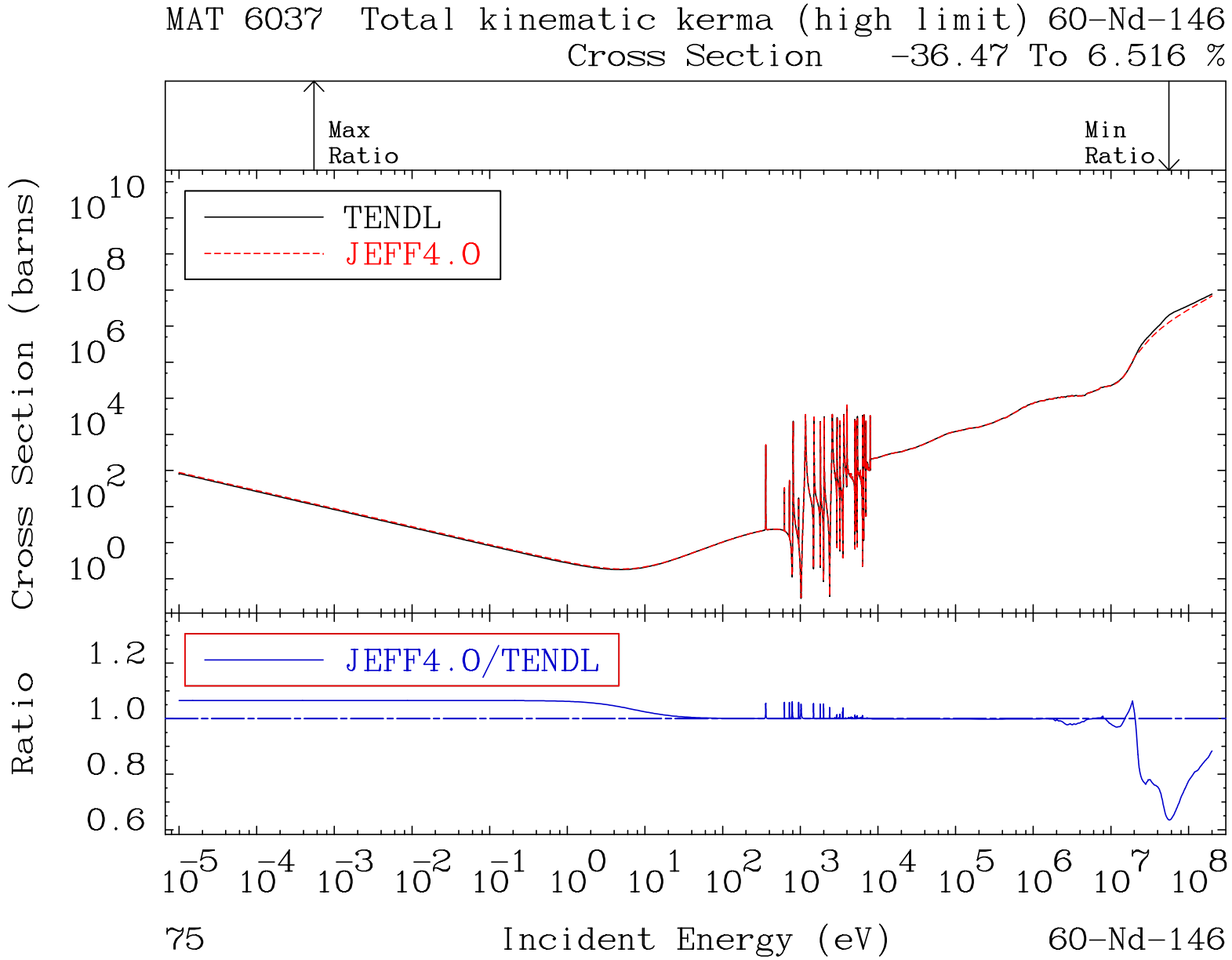

MAT 6037 Kerma non-elastic (all but mt2) 60-Nd-146
Cross Section -36.62 To 25.92 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
60-Nd-146

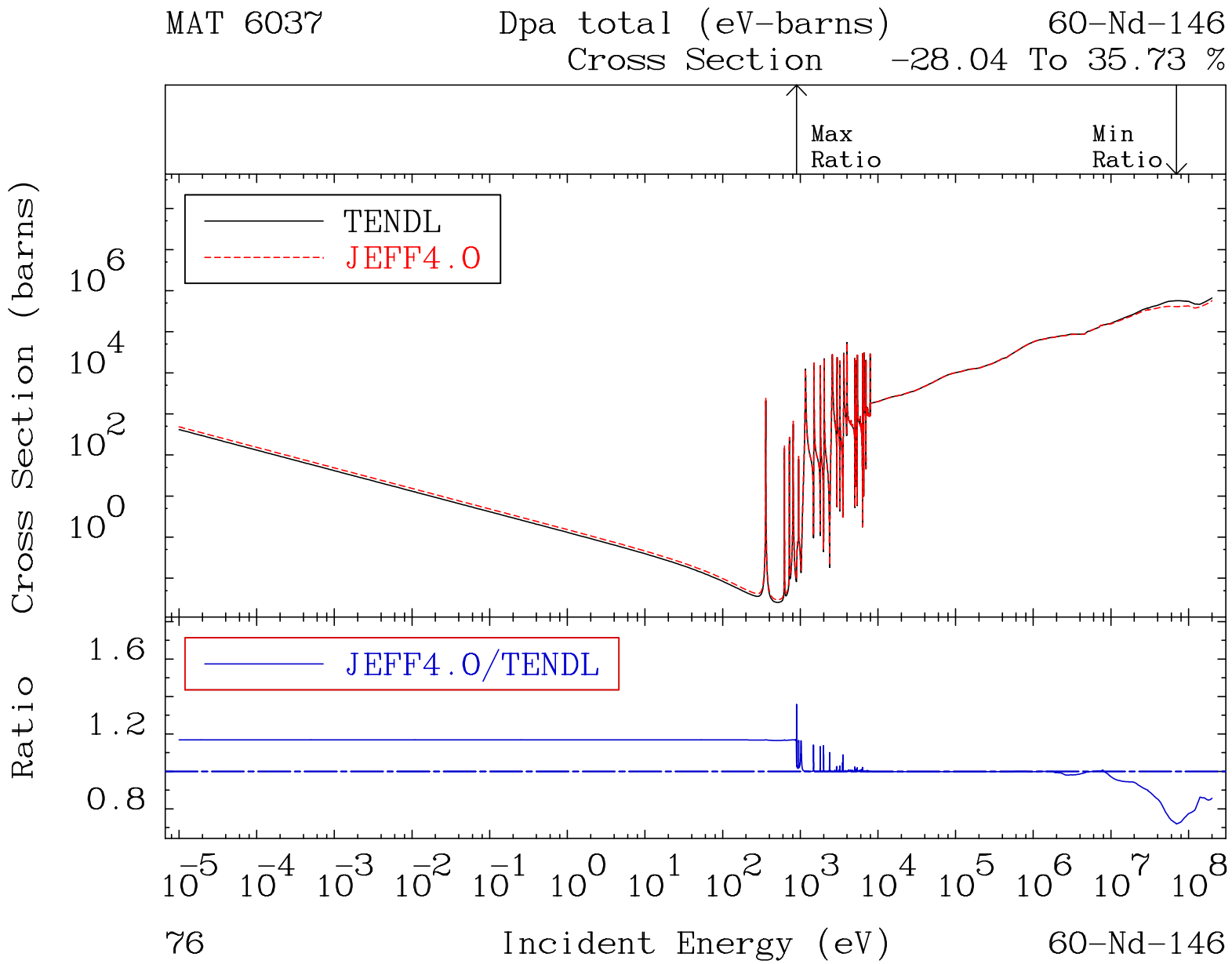

MAT 6037
Kerma inelastic (mt51-91)
60-Nd-146
Cross Section
-2.155 To 75.80 %
Max Ratio
Min Ratio
TENDL Threshold 456.98 keV
JEFF4.0 Threshold 456.98 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
71
60-Nd-146

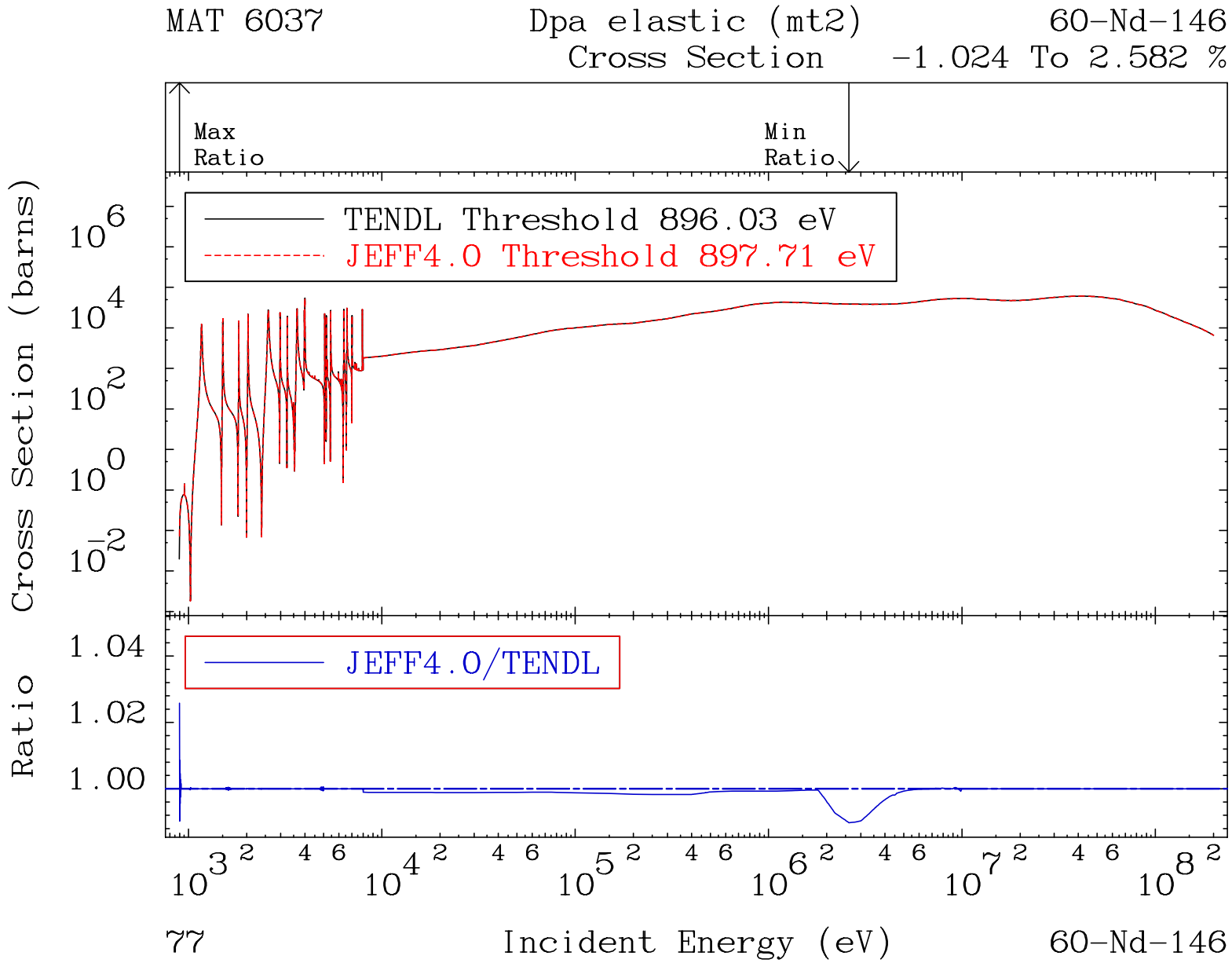

MAT 6037 Kerma fission (mt18 or mt19-20-21-38) 60-Nd-146
Cross Section -2.155 To 75.80 %
Max
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
2.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
60-Nd-146

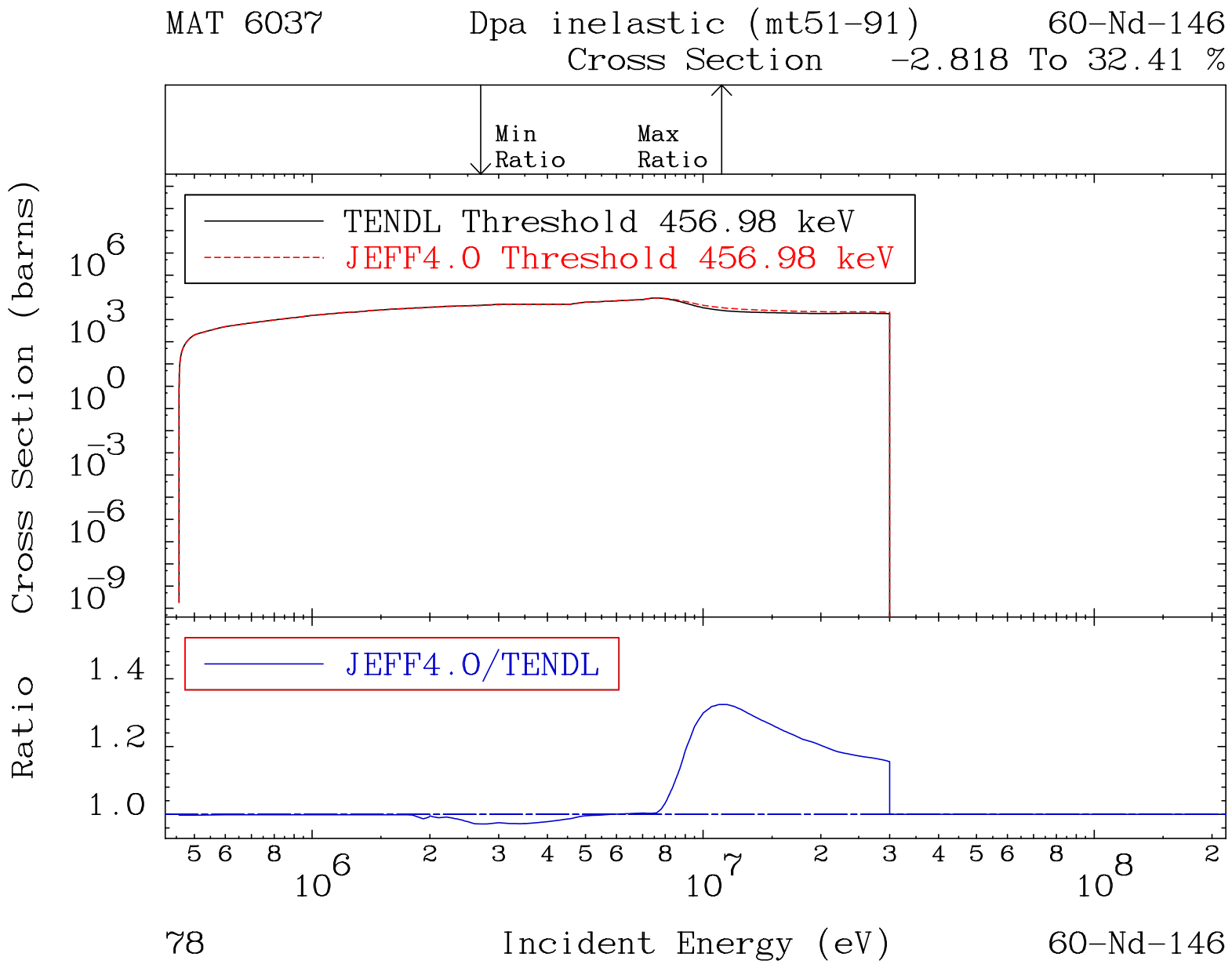

MAT 6037
Kerma capture (mt102)
60-Nd-146
Cross Section
-39.40 To 76.91 %
Min
Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JEFF4.0/TENDL
Ratio
2.0
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
73
Incident Energy (eV)
60-Nd-146

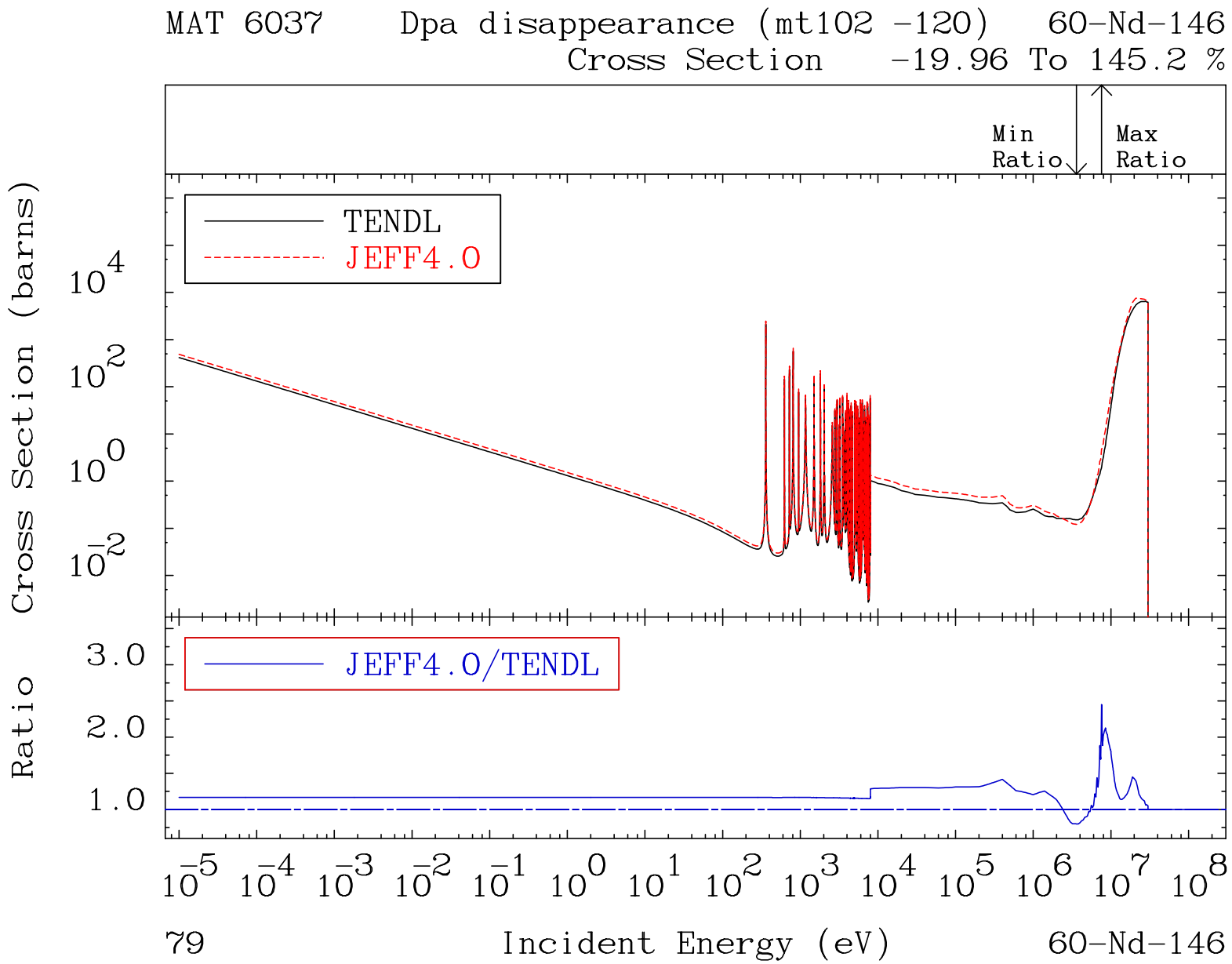

MAT 6037
Total photon (eV-barns)
60-Nd-146
Cross Section -74.84 To 34.02 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
JEFF4.0/TENDL
Ratio
1.8
1.2
0.6
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
74
Incident Energy (eV)
60-Nd-146

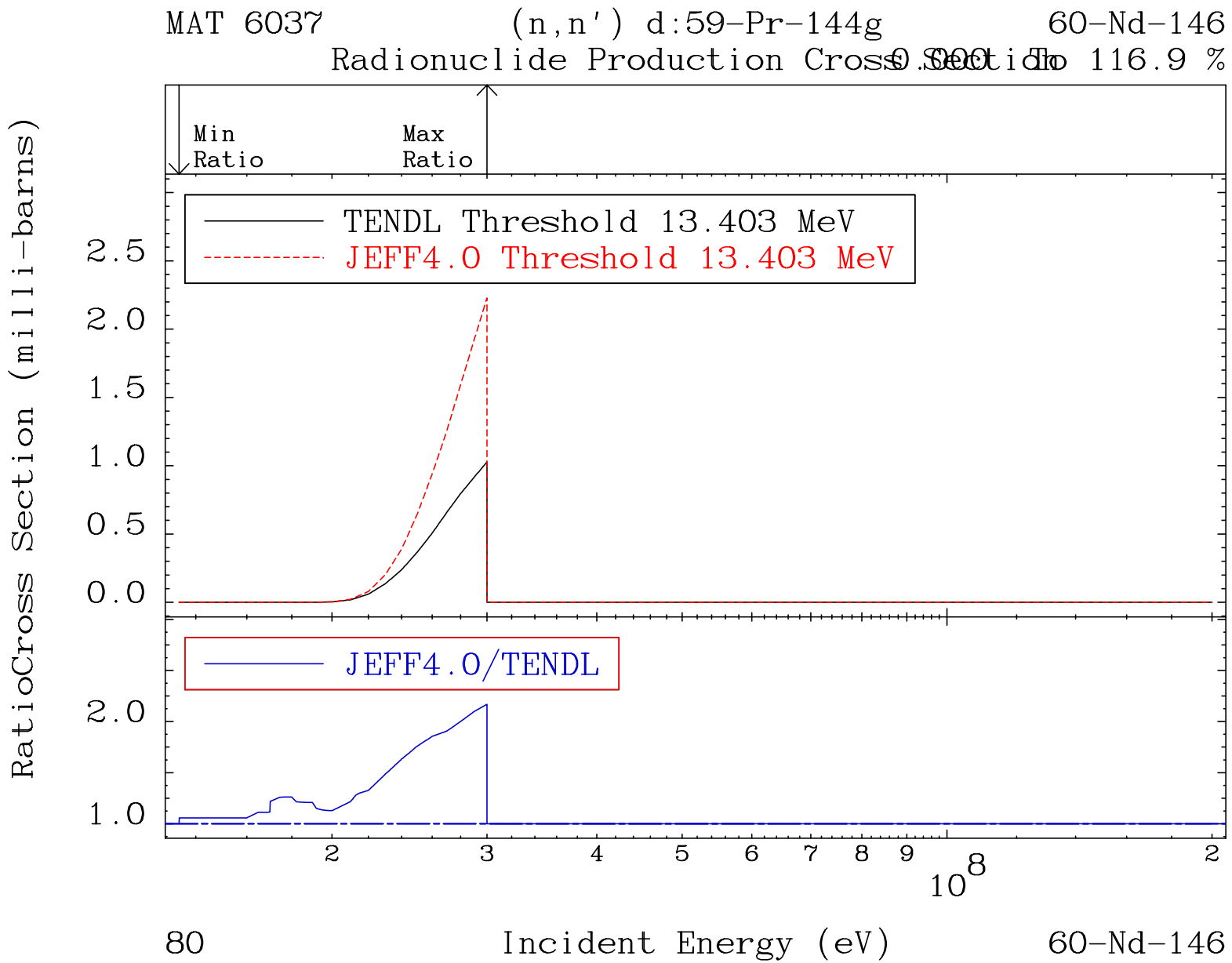

MAT 6037 Total kinematic kerma (high limit) 60-Nd-146
Cross Section -36.47 To 6.516 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
75
60-Nd-146

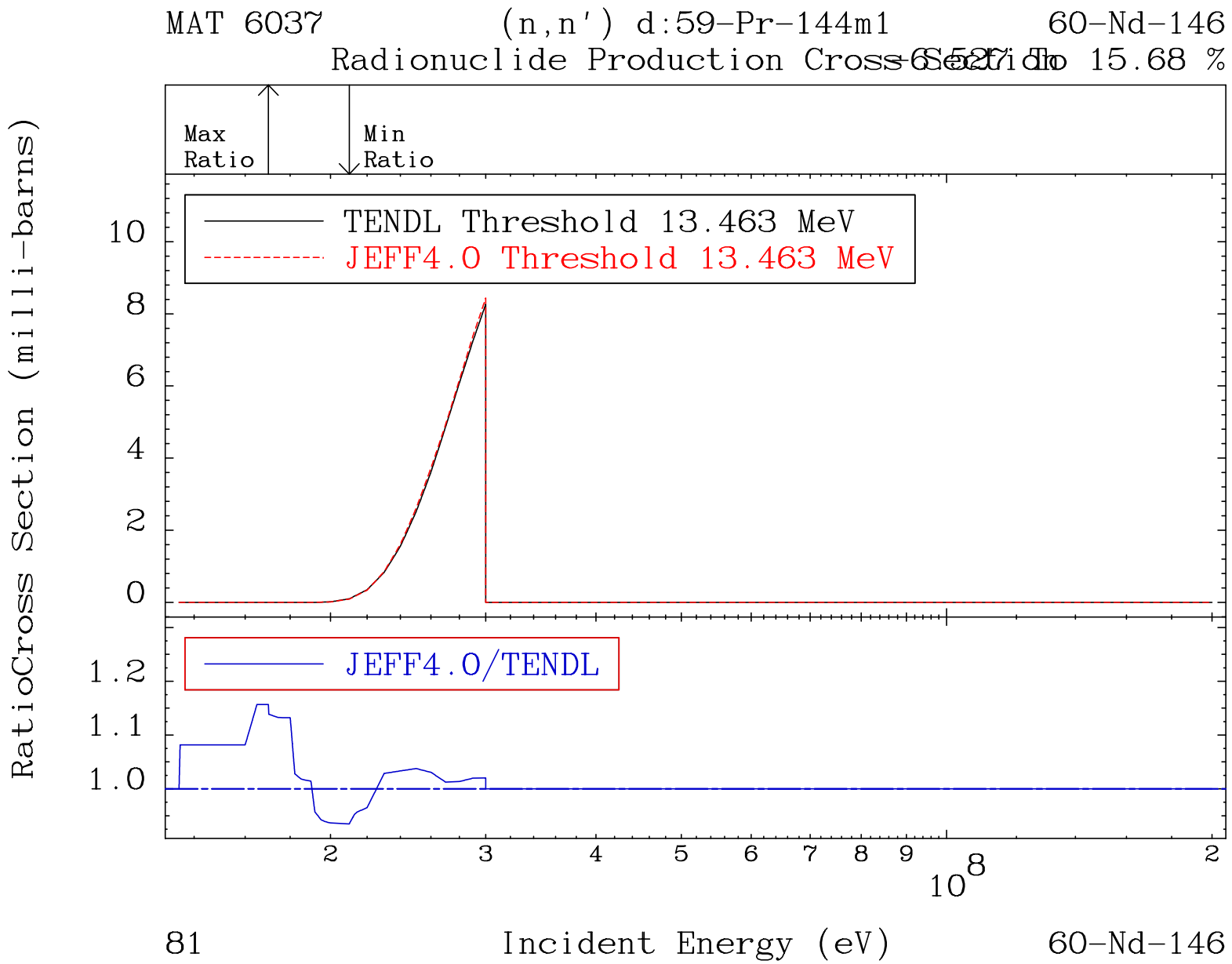

MAT 6037
Dpa total (eV-barns)
60-Nd-146
Cross Section
-28.04 To 35.73 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
76
60-Nd-146

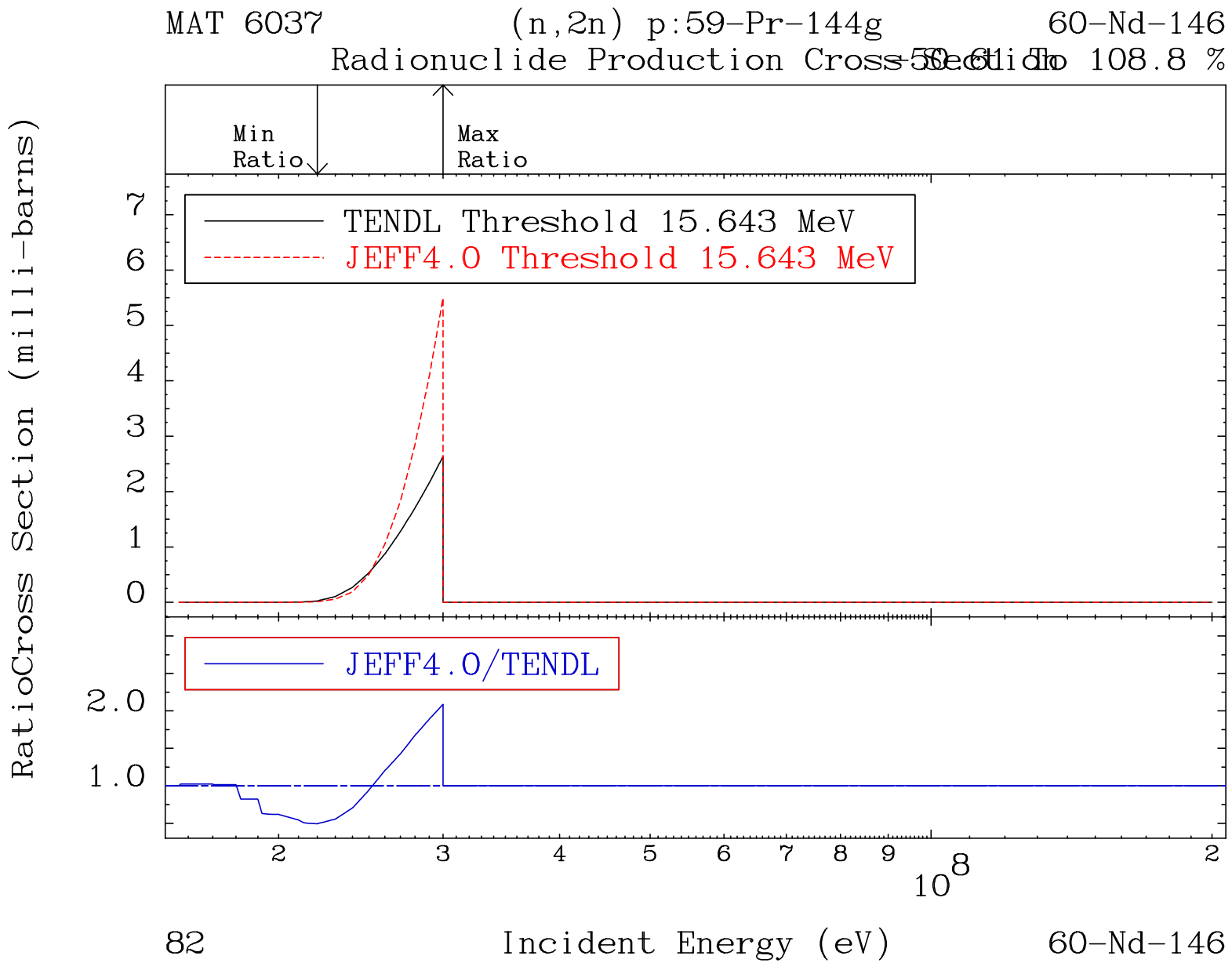

MAT 6037
Dpa elastic (mt2)
Cross Section
60-Nd-146
-1.024 To 2.582 %
Max Ratio
Min Ratio
TENDL Threshold 896.03 eV
JEFF4.0 Threshold 897.71 eV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
60-Nd-146

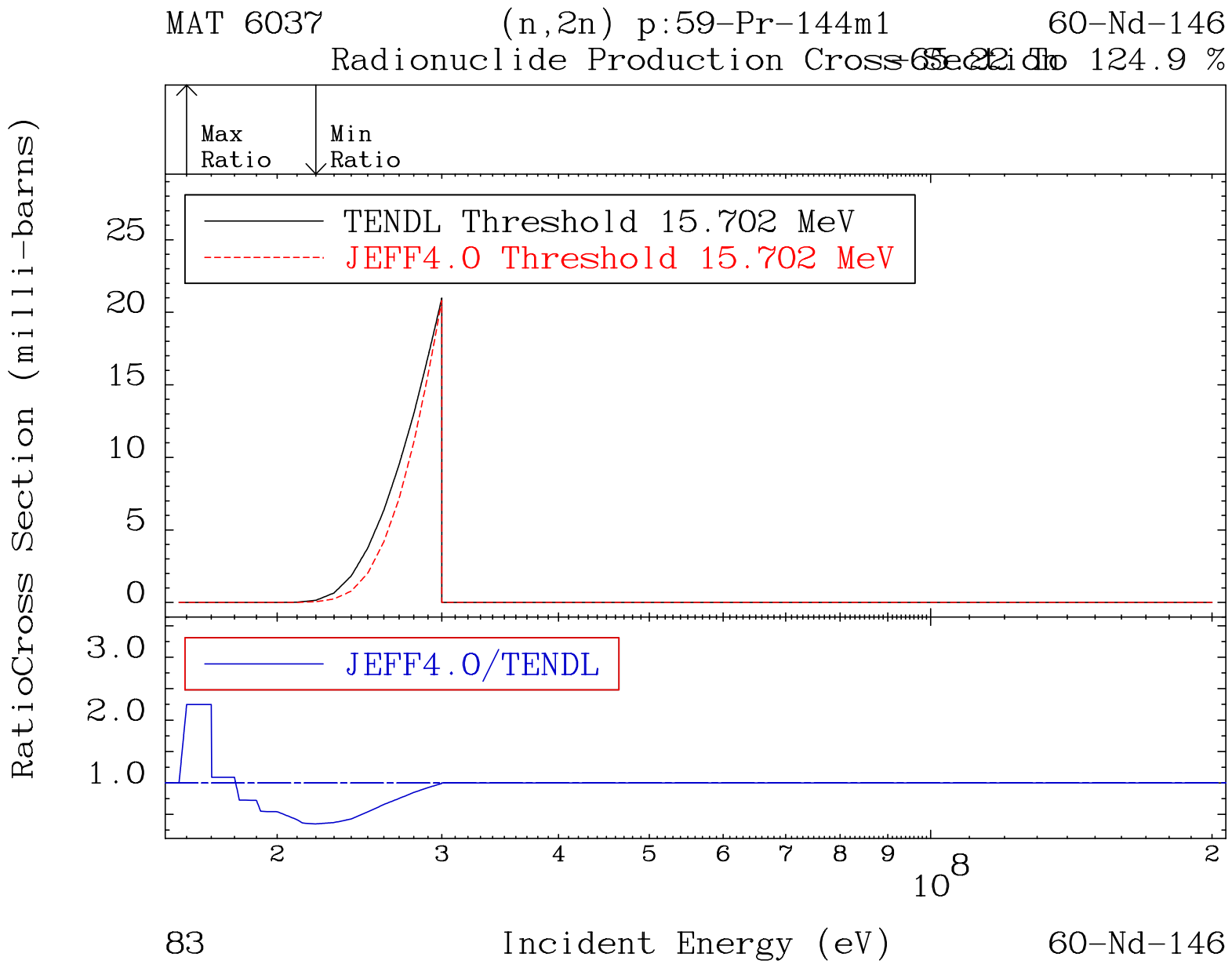

MAT 6037
Dpa inelastic (mt51-91)
60-Nd-146
Cross Section -2.818 To 32.41 %
Min Ratio
Max Ratio
TENDL Threshold 456.98 keV
JEFF4.0 Threshold 456.98 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
78
60-Nd-146

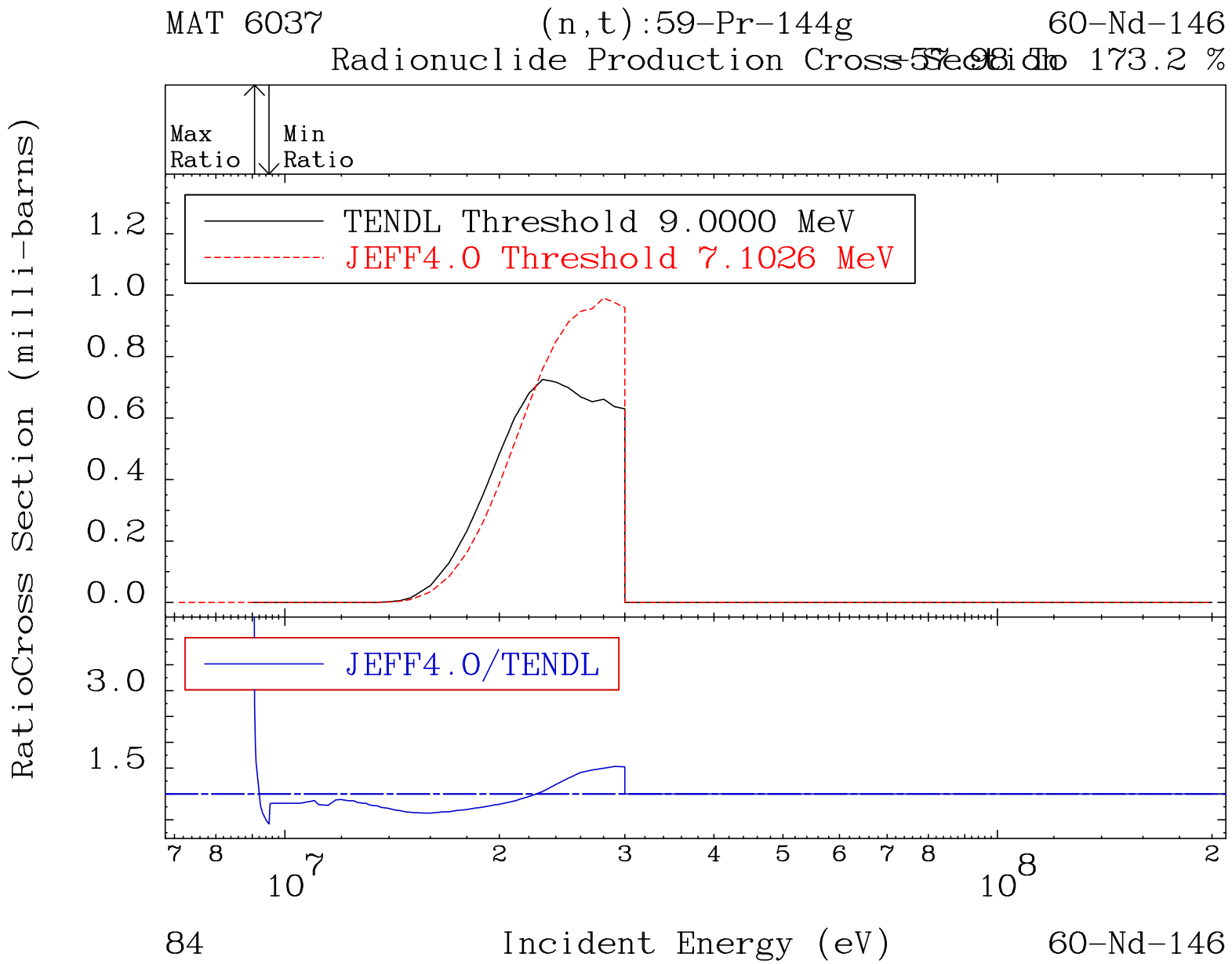

MAT 6037 Dpa disappearance (mt102 -120) 60-Nd-146
Cross Section -19.96 To 145.2 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
79
60-Nd-146

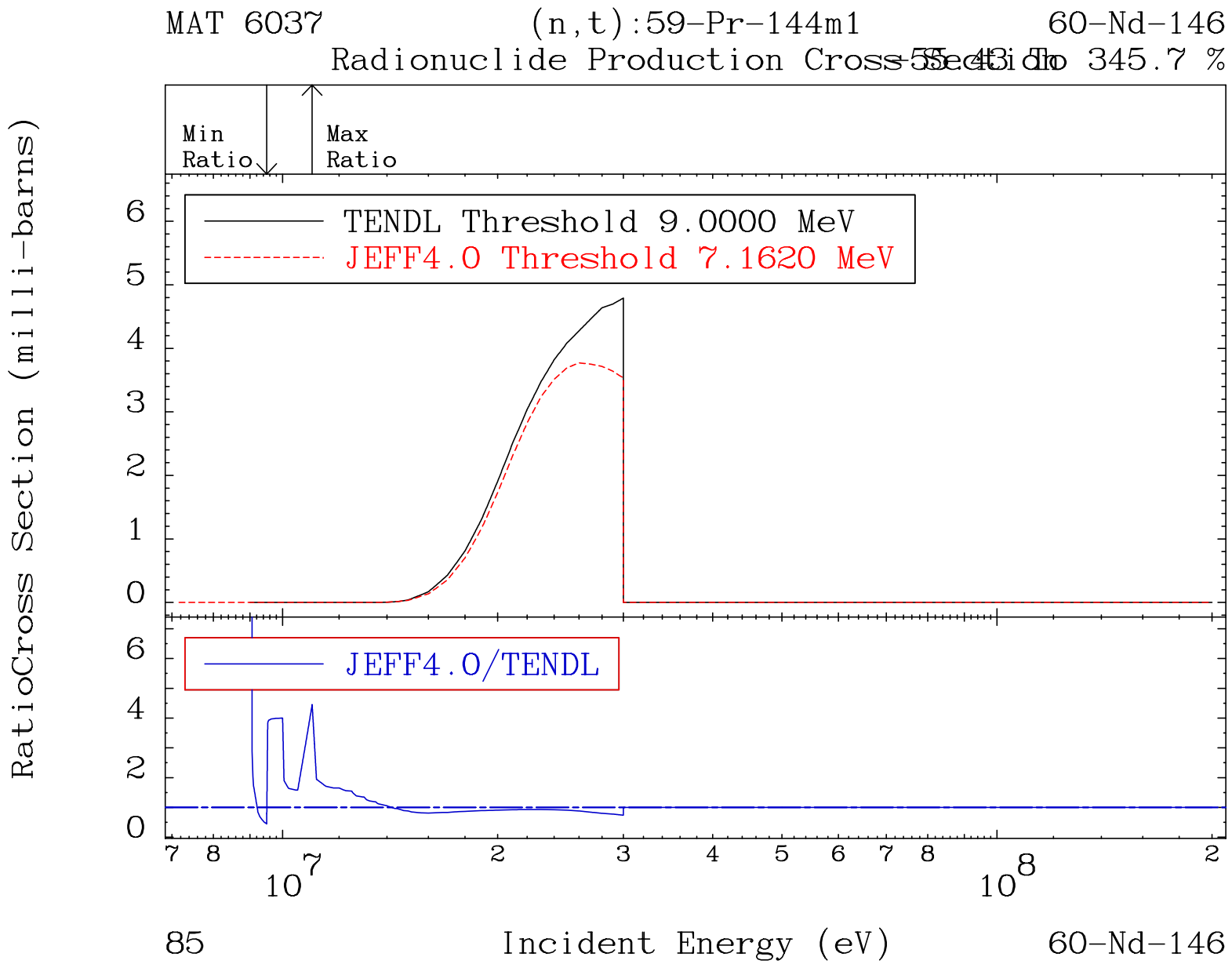

MAT 6037
(n,n') d:59-Pr-144g
60-Nd-146
Radionuclide Production Cross Section
0.000 To 116.9 %
Min Ratio
Max Ratio
TENDL Threshold 13.403 MeV
JEFF4.0 Threshold 13.403 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
60-Nd-146


MAT 6037 (n,n') d:59-Pr-144m1 60-Nd-146
Radionuclide Production Cross Section To 15.68 %
Max Ratio
Min Ratio
TENDL Threshold 13.463 MeV
JEFF4.0 Threshold 13.463 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
60-Nd-146


MAT 6037
(n,2n) p:59-Pr-144g
60-Nd-146
Radionuclide Production Cross Section To 108.8 %
Min Ratio
Max Ratio
TENDL Threshold 15.643 MeV
JEFF4.0 Threshold 15.643 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
60-Nd-146


MAT 6037
(n,2n) p:59-Pr-144m1
60-Nd-146
Radionuclide Production Cross Section To 124.9 %
Max Ratio
Min Ratio
TENDL Threshold 15.702 MeV
JEFF4.0 Threshold 15.702 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
60-Nd-146


MAT 6037
(n,t):59-Pr-144g
60-Nd-146
Radionuclide Production Cross Section To 173.2 %
Max Ratio
Min Ratio
TENDL Threshold 9.0000 MeV
JEFF4.0 Threshold 7.1026 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
1.5
7 8 10^7 2 3 4 5 6 7 8 10^8 2
84
Incident Energy (eV)
60-Nd-146


MAT 6037
(n,t):59-Pr-144m1
60-Nd-146
Radionuclide Production Cross Section To 345.7 %
Min Ratio
Max Ratio
TENDL Threshold 9.0000 MeV
JEFF4.0 Threshold 7.1620 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
85
60-Nd-146