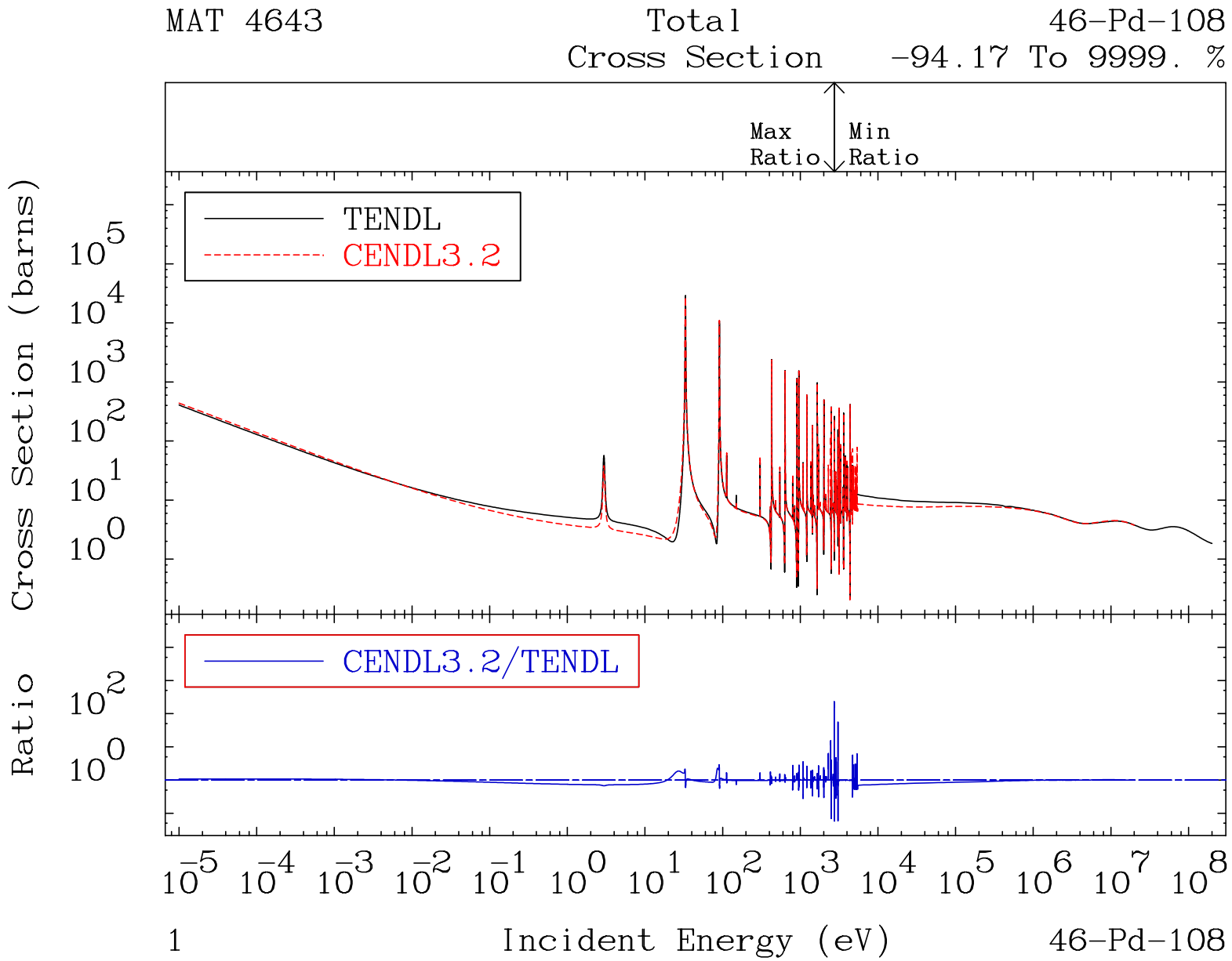
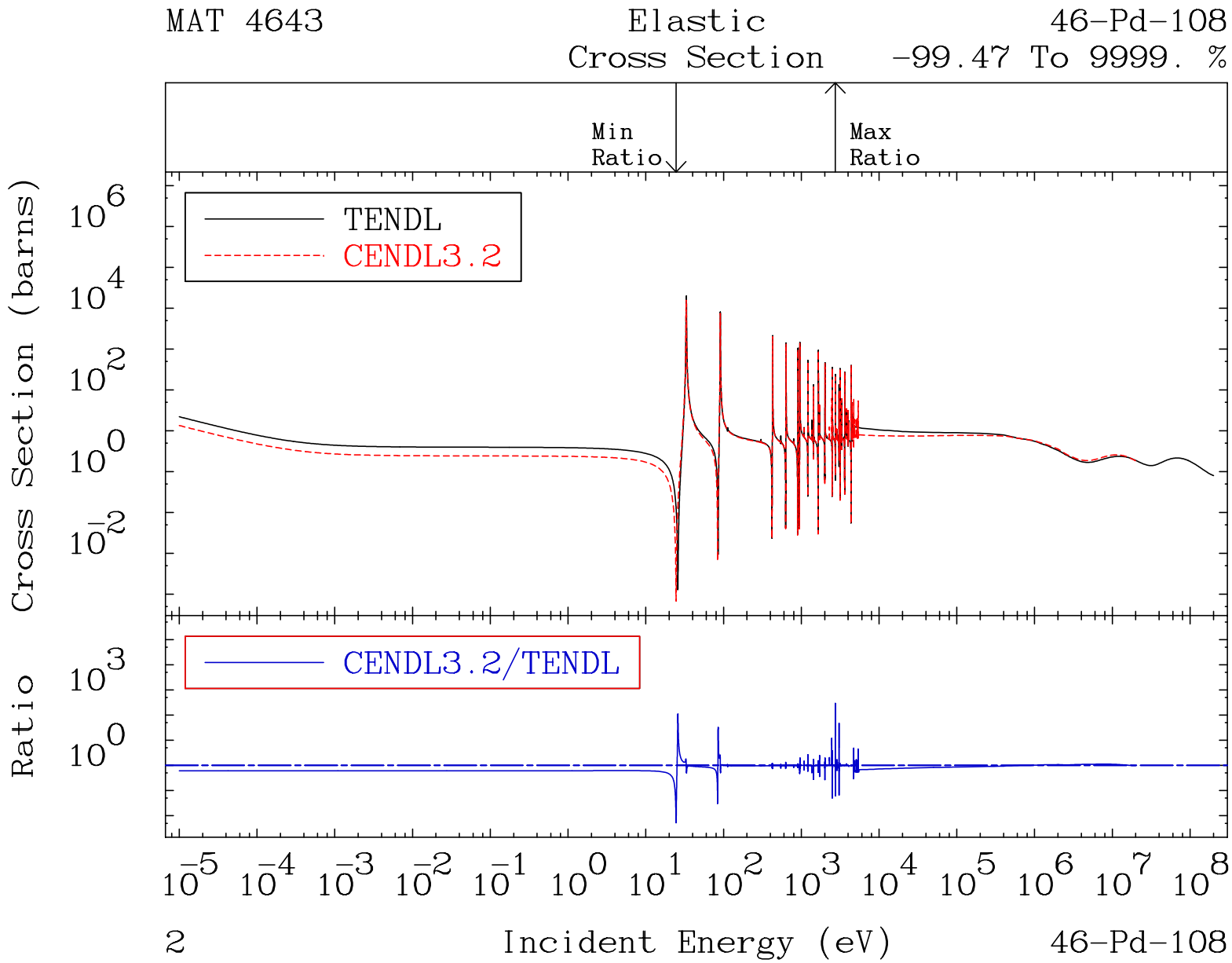
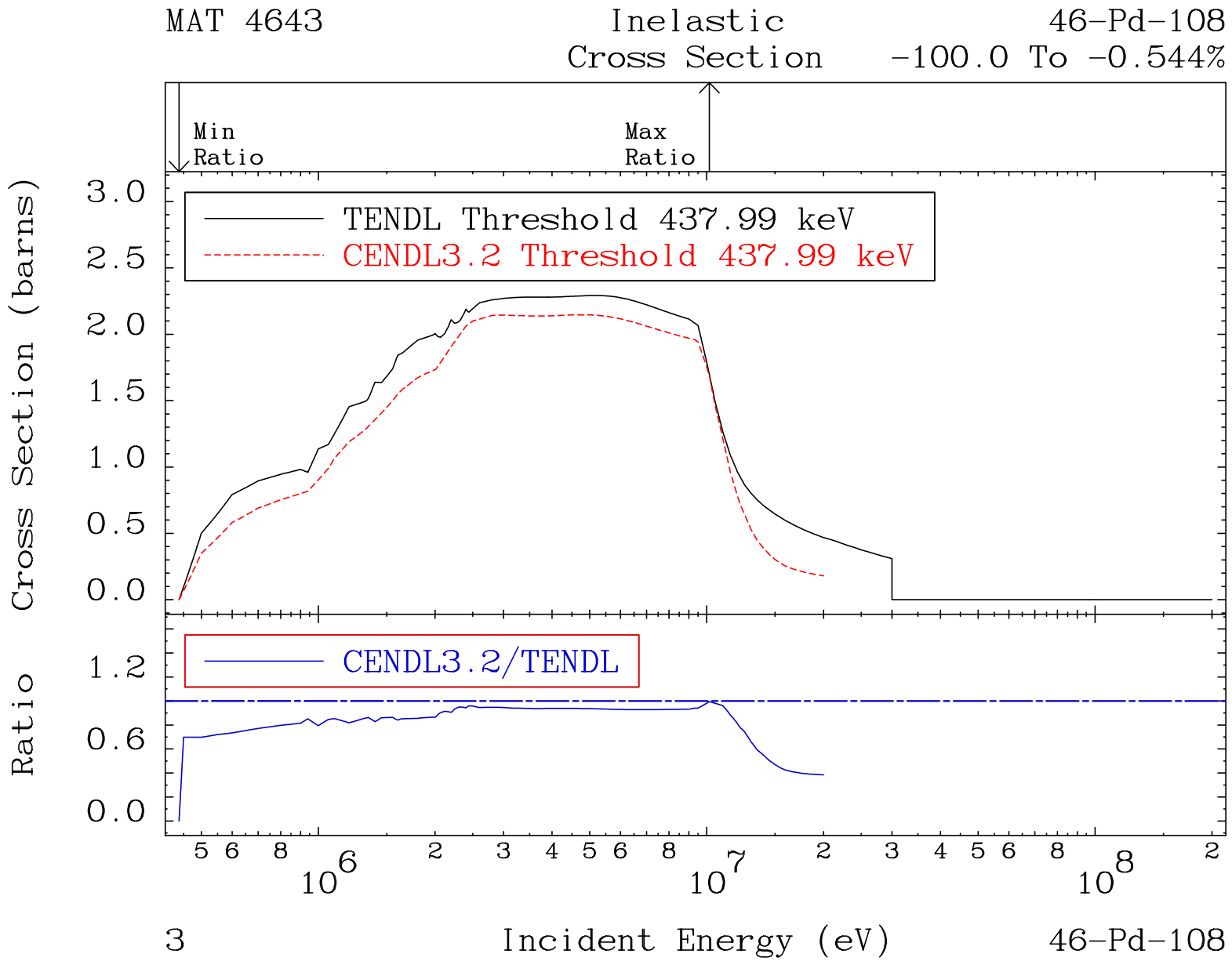
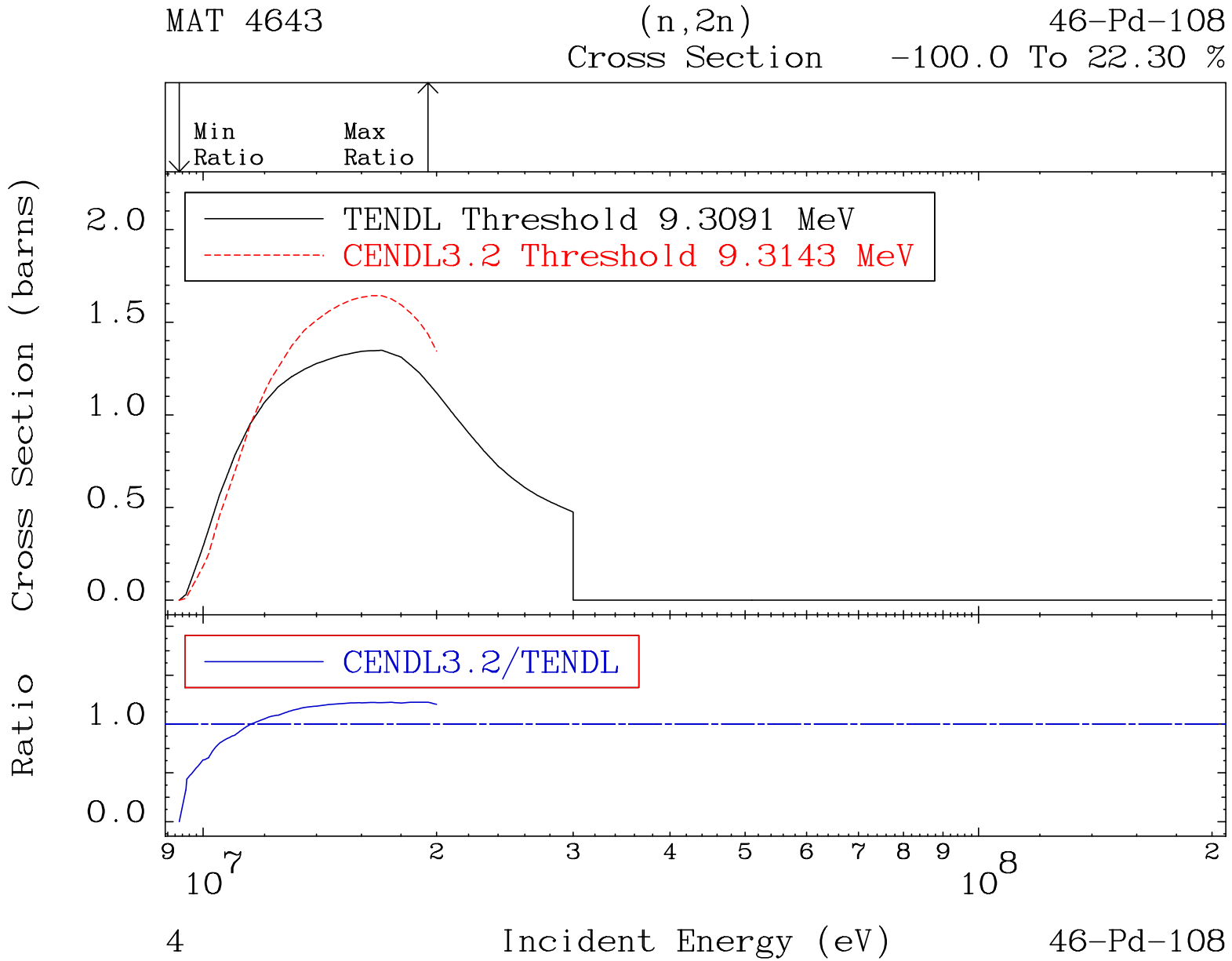
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

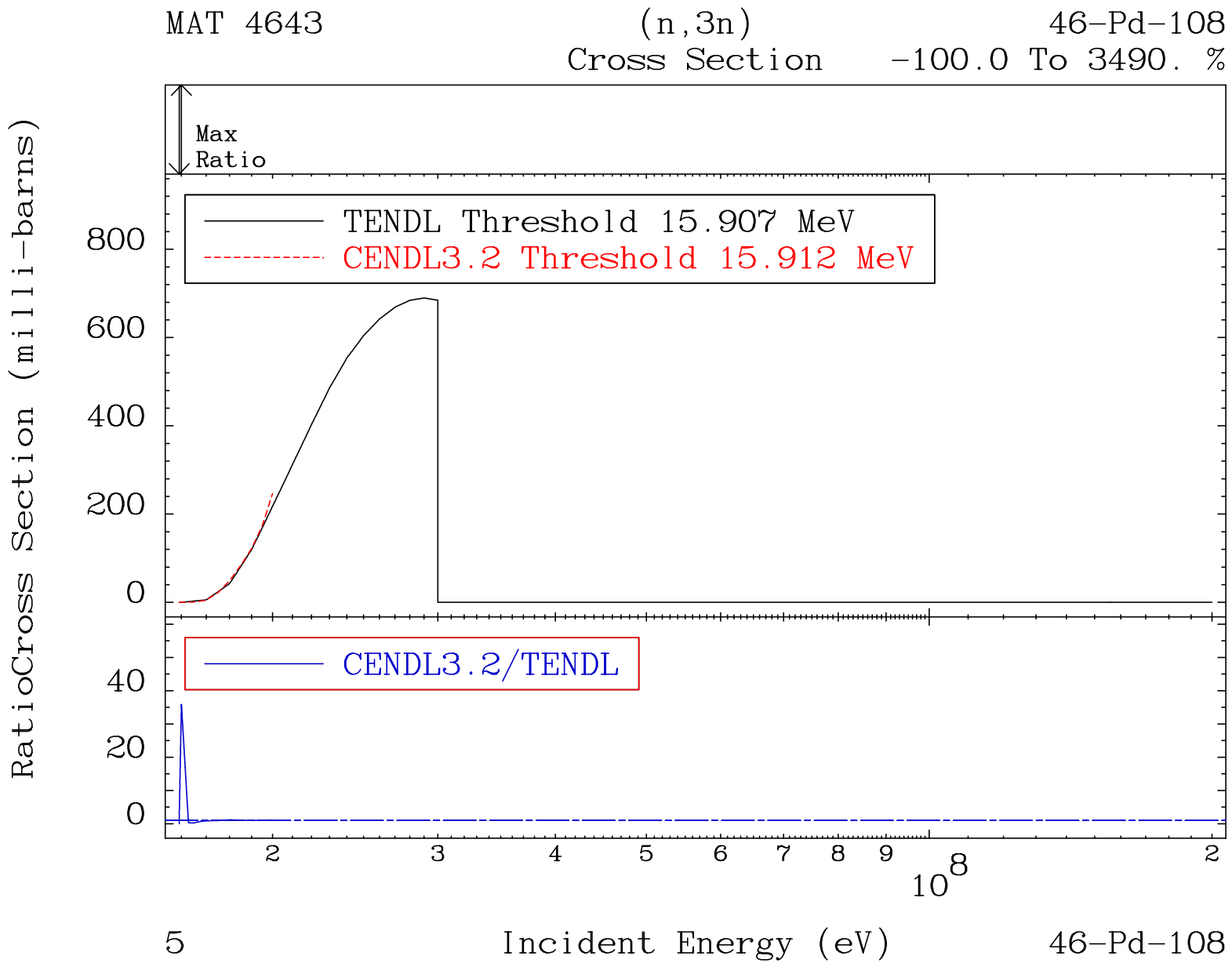
Press Mouse Button to Start

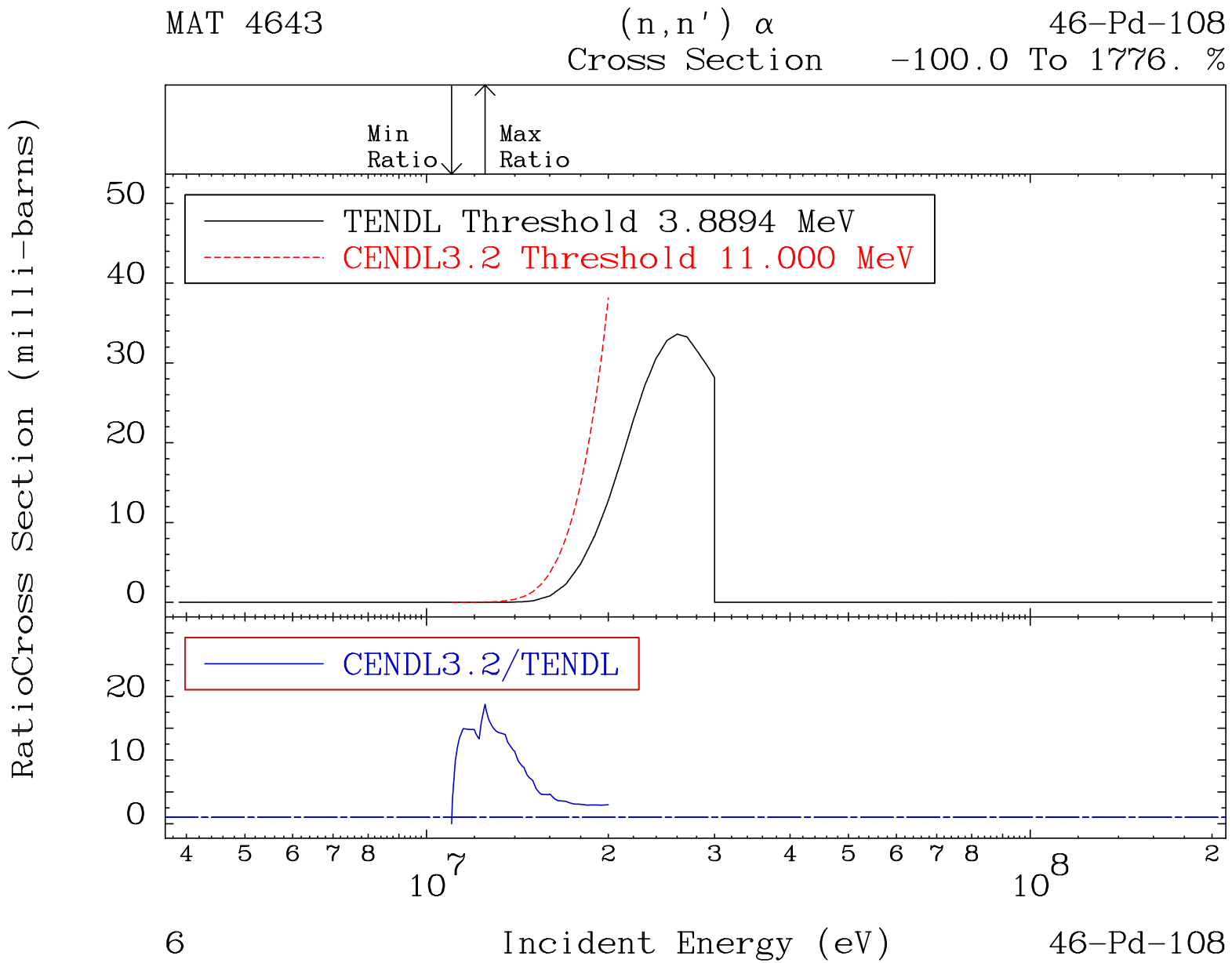

MAT 4643
Total
Cross Section
46-Pd-108
-94.17 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
1
46-Pd-108

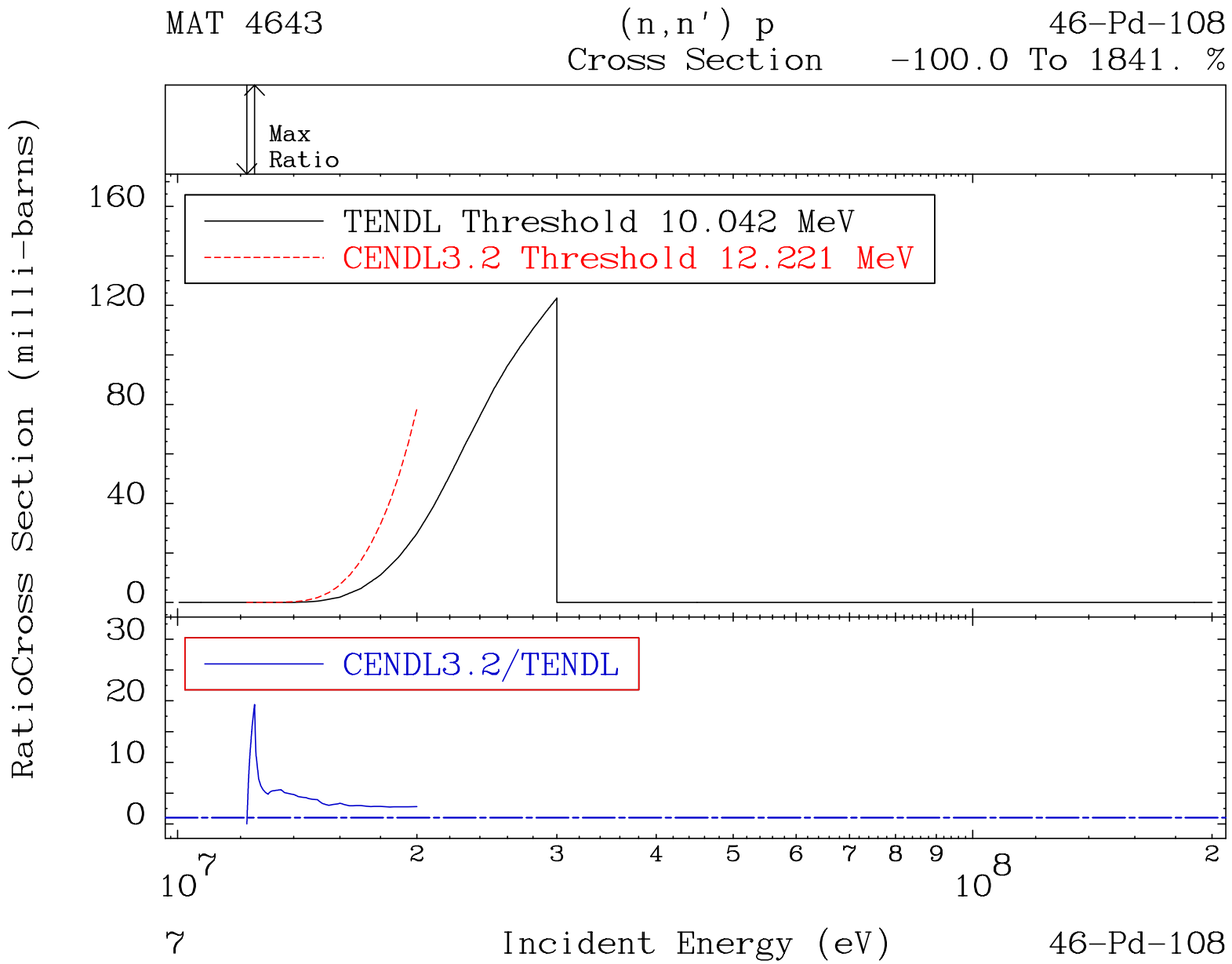

MAT 4643
Elastic
Cross Section
46-Pd-108
-99.47 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
46-Pd-108

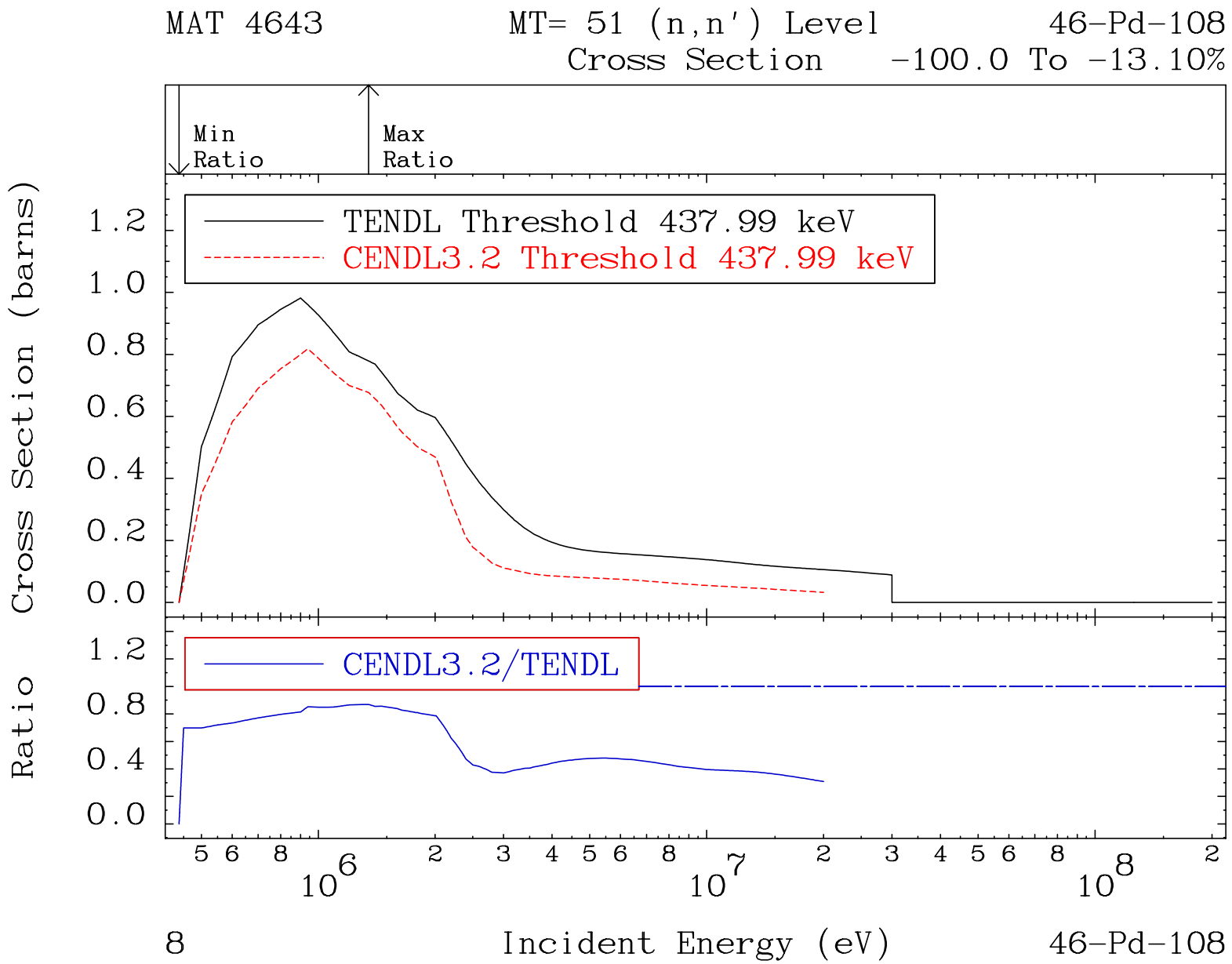

MAT 4643
Inelastic
Cross Section
46-Pd-108
-100.0 To -0.544%
Min
Ratio
Max
Ratio
TENDL Threshold 437.99 keV
CENDL3.2 Threshold 437.99 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
46-Pd-108

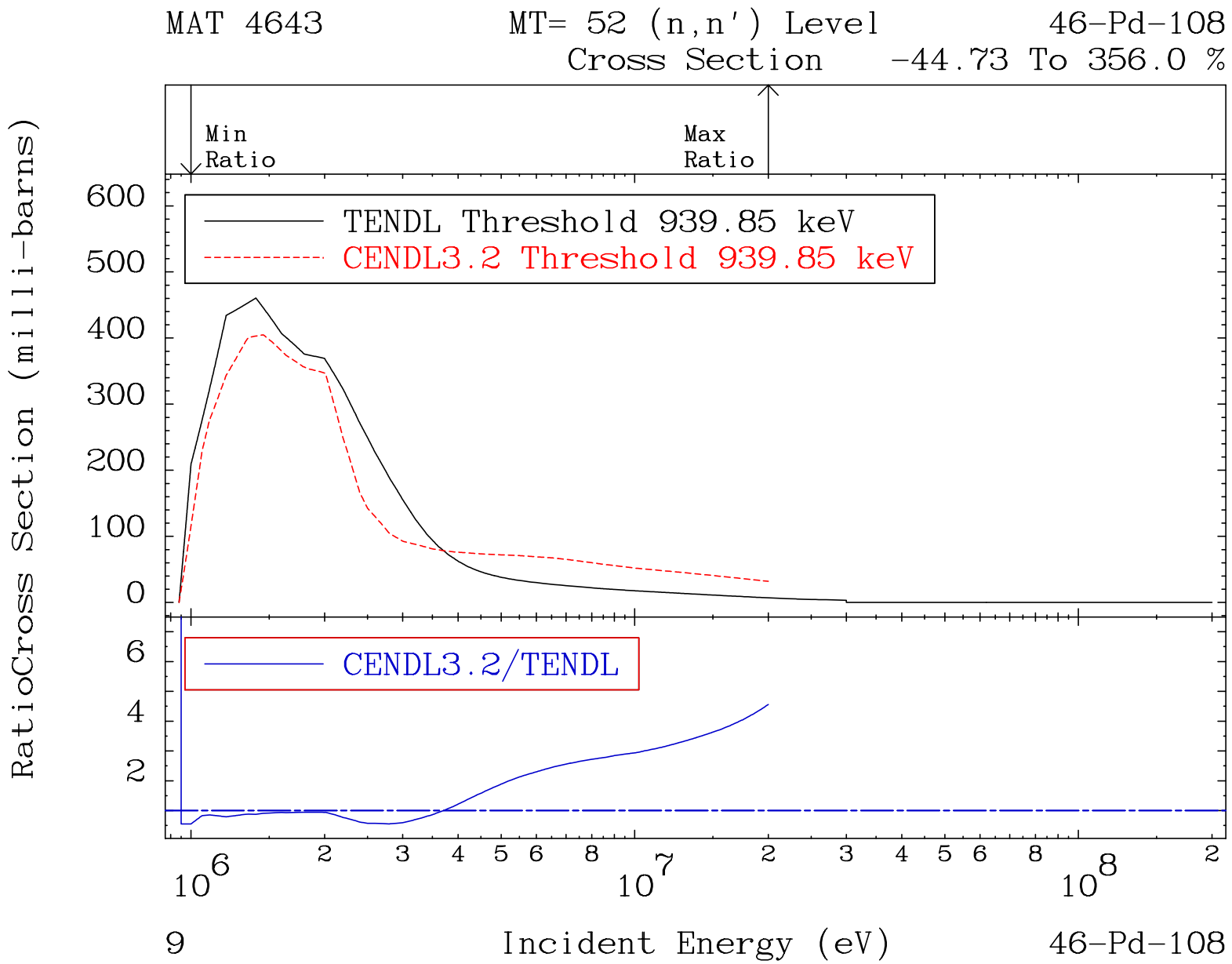

MAT 4643
(n,2n)
Cross Section
46-Pd-108
-100.0 To 22.30 %
Min Ratio
Max Ratio
TENDL Threshold 9.3091 MeV
CENDL3.2 Threshold 9.3143 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
46-Pd-108

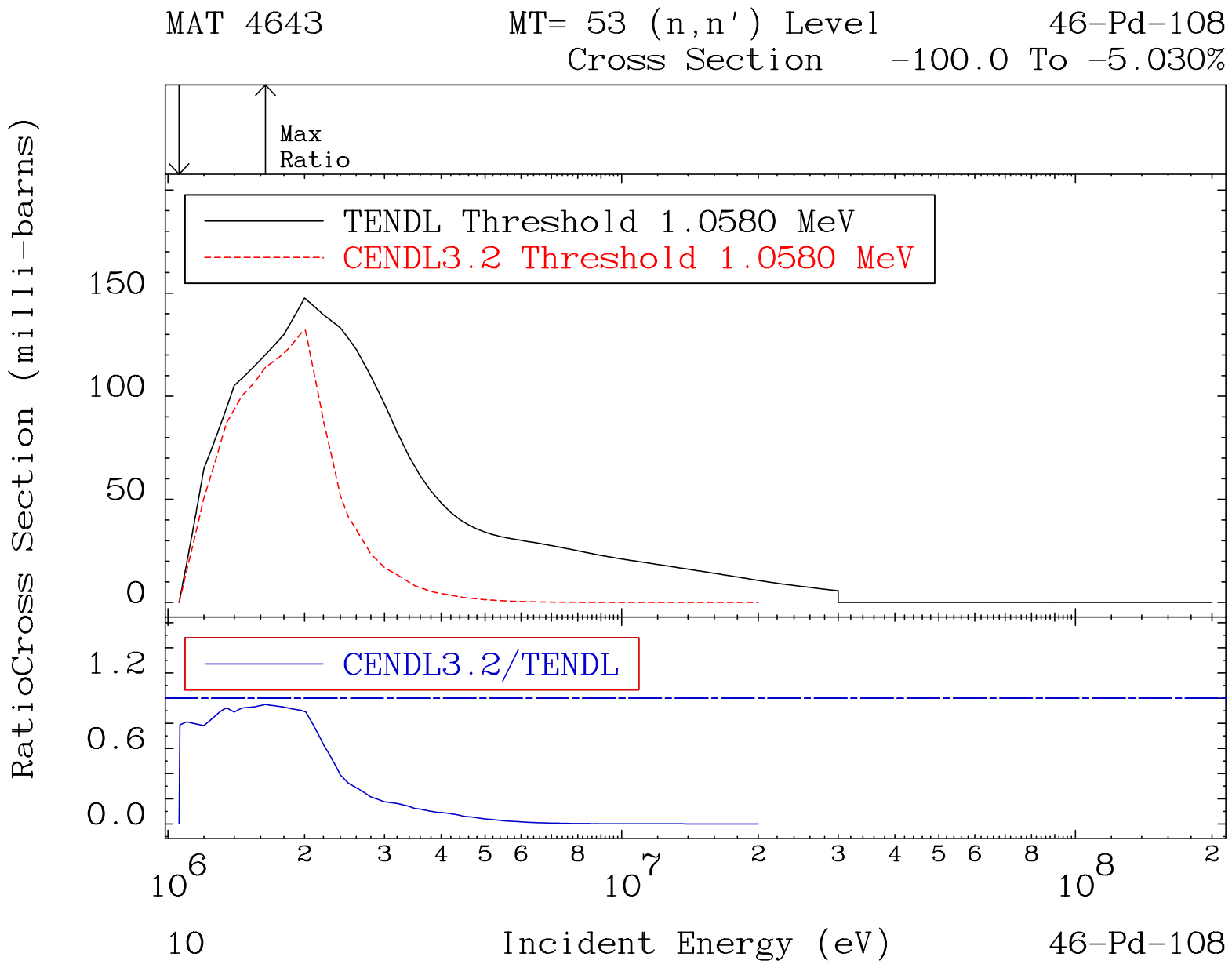

MAT 4643
(n,3n)
46-Pd-108
Cross Section
-100.0 To 3490. %
Max
Ratio
TENDL Threshold 15.907 MeV
CENDL3.2 Threshold 15.912 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
40
20
0
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
46-Pd-108

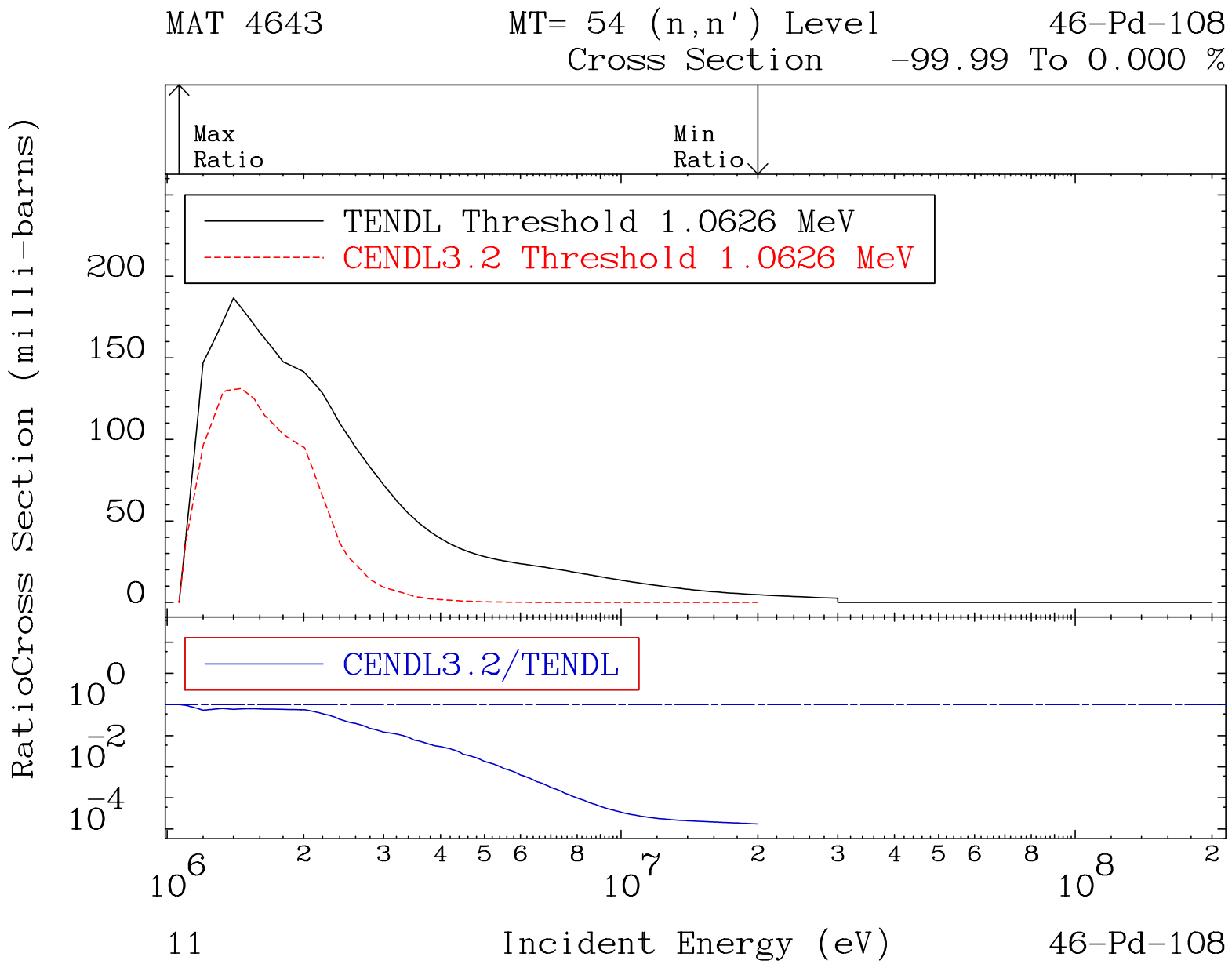

MAT 4643
(n,n') α
46-Pd-108
Cross Section
-100.0 To 1776. %
Min Ratio
Max Ratio
TENDL Threshold 3.8894 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
20
10
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
46-Pd-108

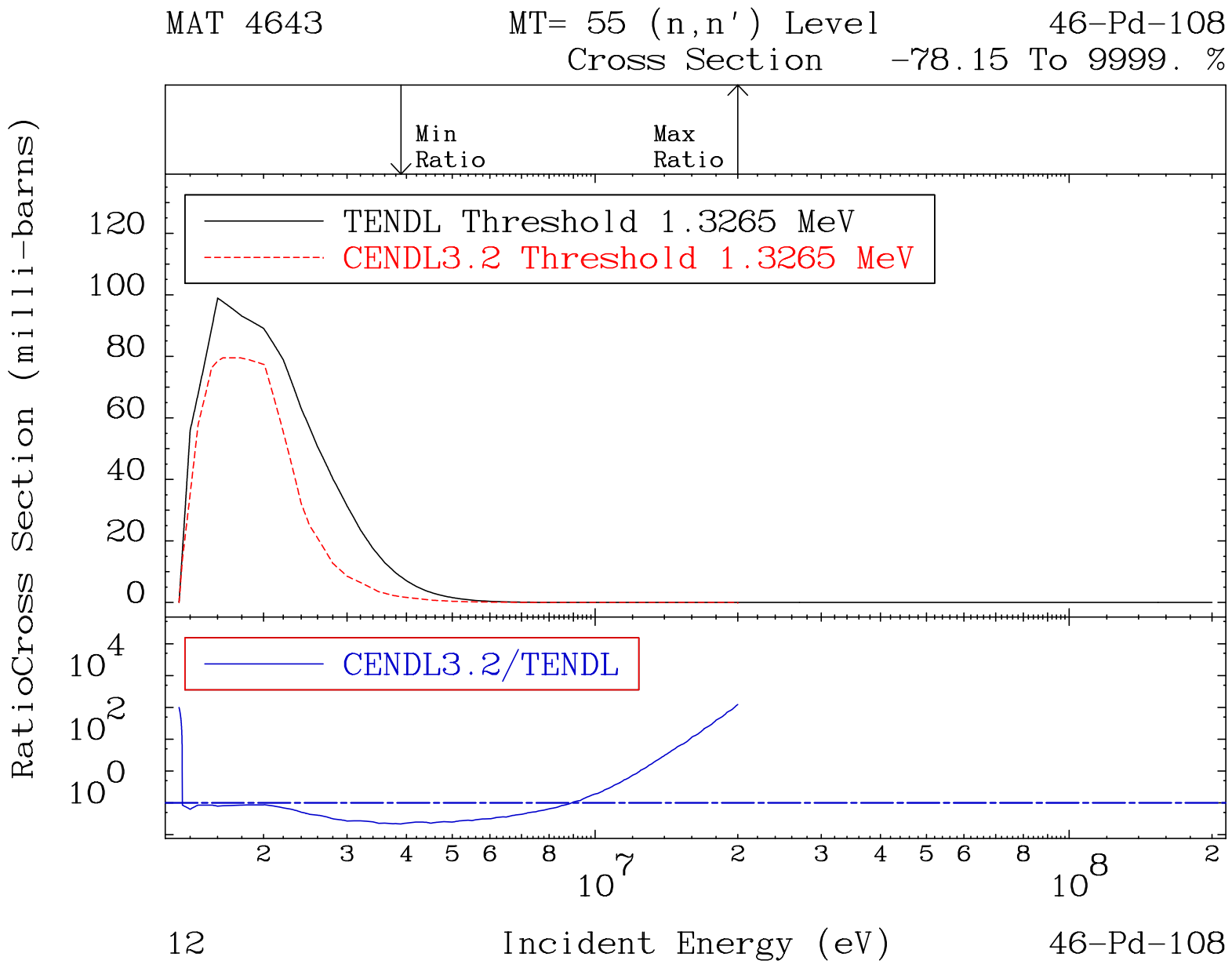

MAT 4643
(n,n') p
Cross Section
46-Pd-108
-100.0 To 1841. %
Max
Ratio
TENDL Threshold 10.042 MeV
CENDL3.2 Threshold 12.221 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
30
20
10
0
2
3
4
5
6
7
8
9
2
10^7
10^8
7
Incident Energy (eV)
46-Pd-108

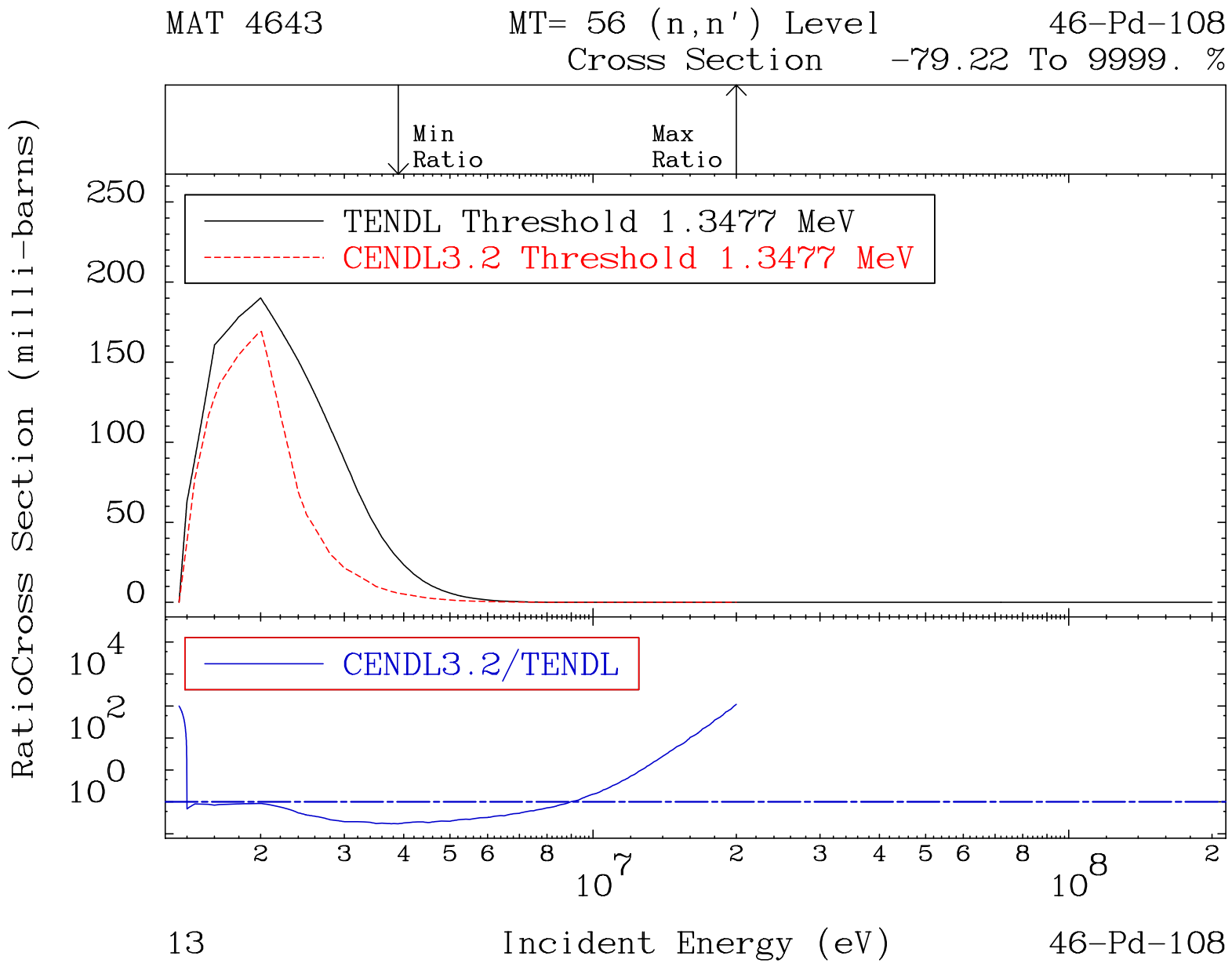

MAT 4643
MT= 51 (n,n') Level
46-Pd-108
Cross Section -100.0 To -13.10%
Min Ratio
Max Ratio
TENDL Threshold 437.99 keV
CENDL3.2 Threshold 437.99 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
8
46-Pd-108

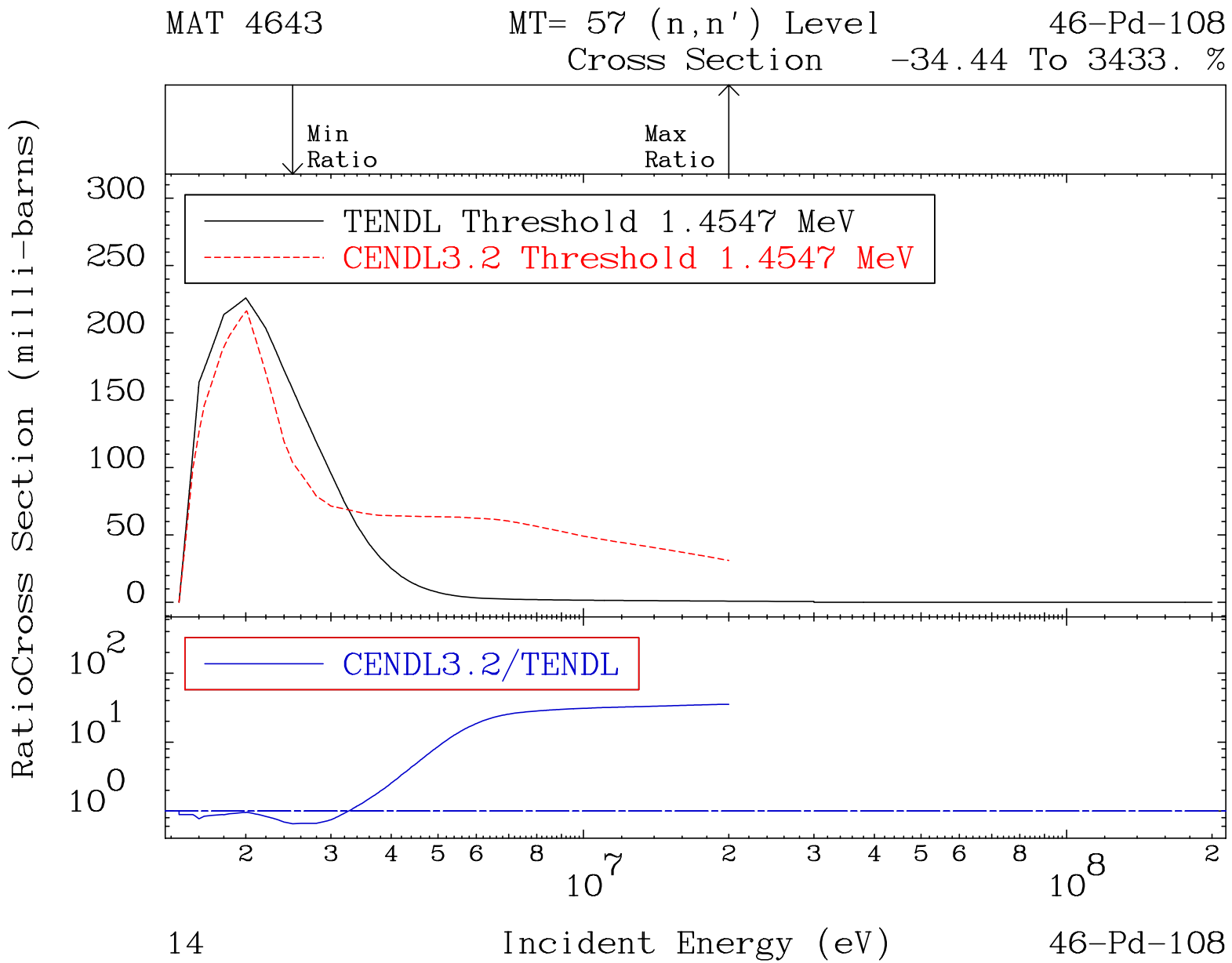

MAT 4643
MT= 52 (n,n') Level
46-Pd-108
Cross Section
-44.73 To 356.0 %
Min Ratio
Max Ratio
TENDL Threshold 939.85 keV
CENDL3.2 Threshold 939.85 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
6
4
2
10^6
10^7
10^8
Incident Energy (eV)
9
46-Pd-108

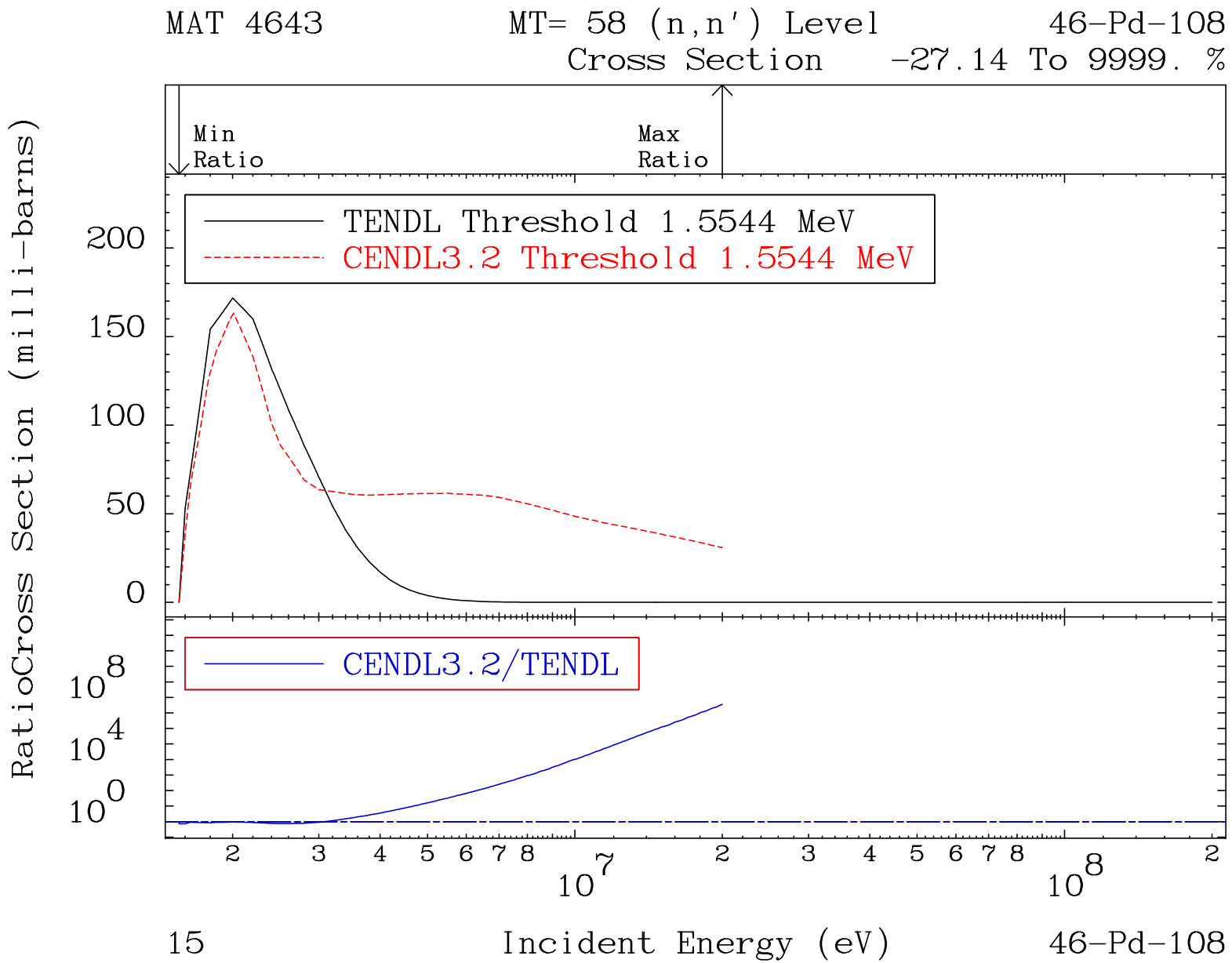

MAT 4643
MT= 53 (n,n') Level
46-Pd-108
Cross Section -100.0 To -5.030%
Max
Ratio
TENDL Threshold 1.0580 MeV
CENDL3.2 Threshold 1.0580 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
46-Pd-108

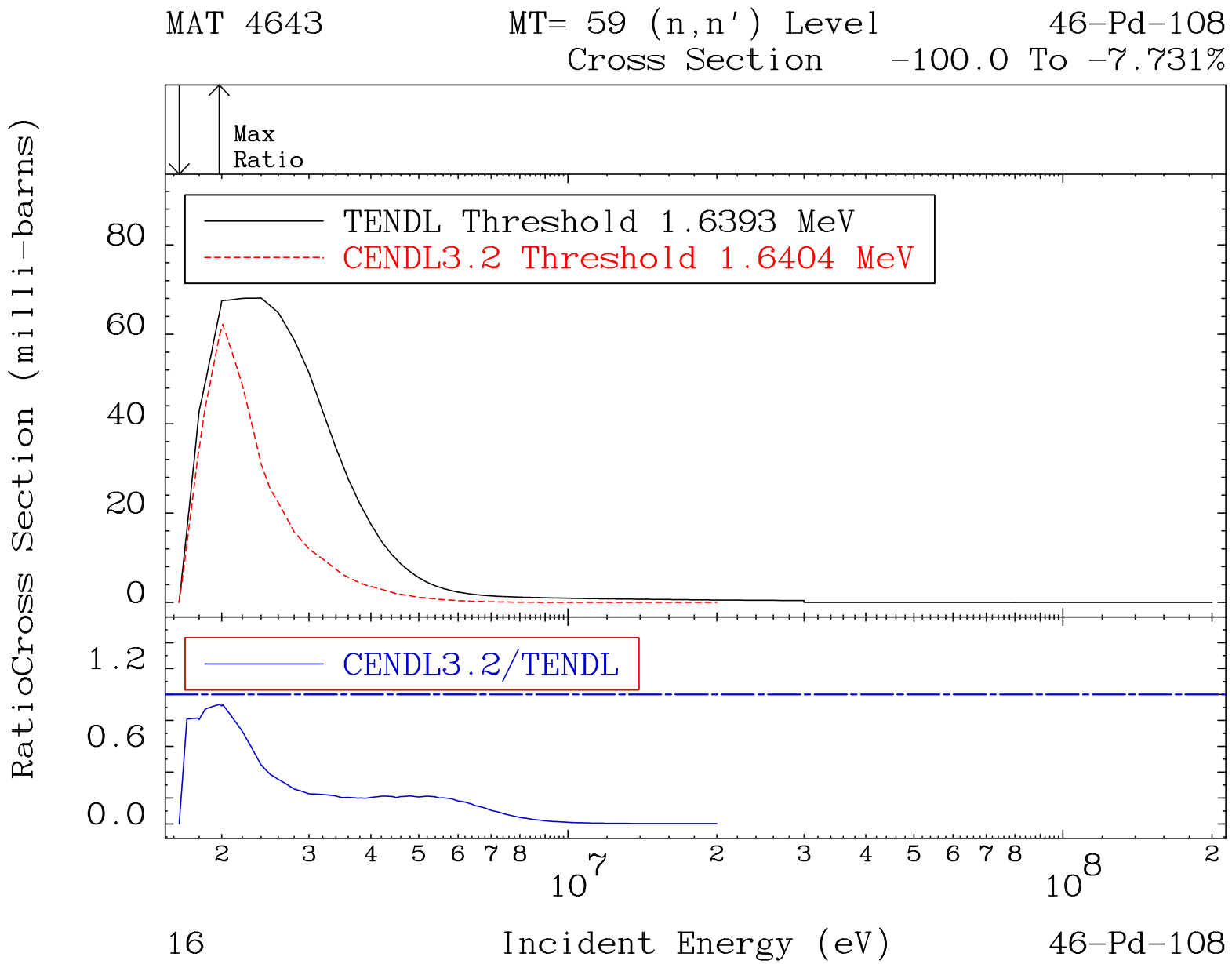

MAT 4643
MT= 54 (n,n') Level
46-Pd-108
Cross Section -99.99 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.0626 MeV
CENDL3.2 Threshold 1.0626 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^0
10^-2
10^-4
10^6
10^7
10^8
Incident Energy (eV)
11
46-Pd-108

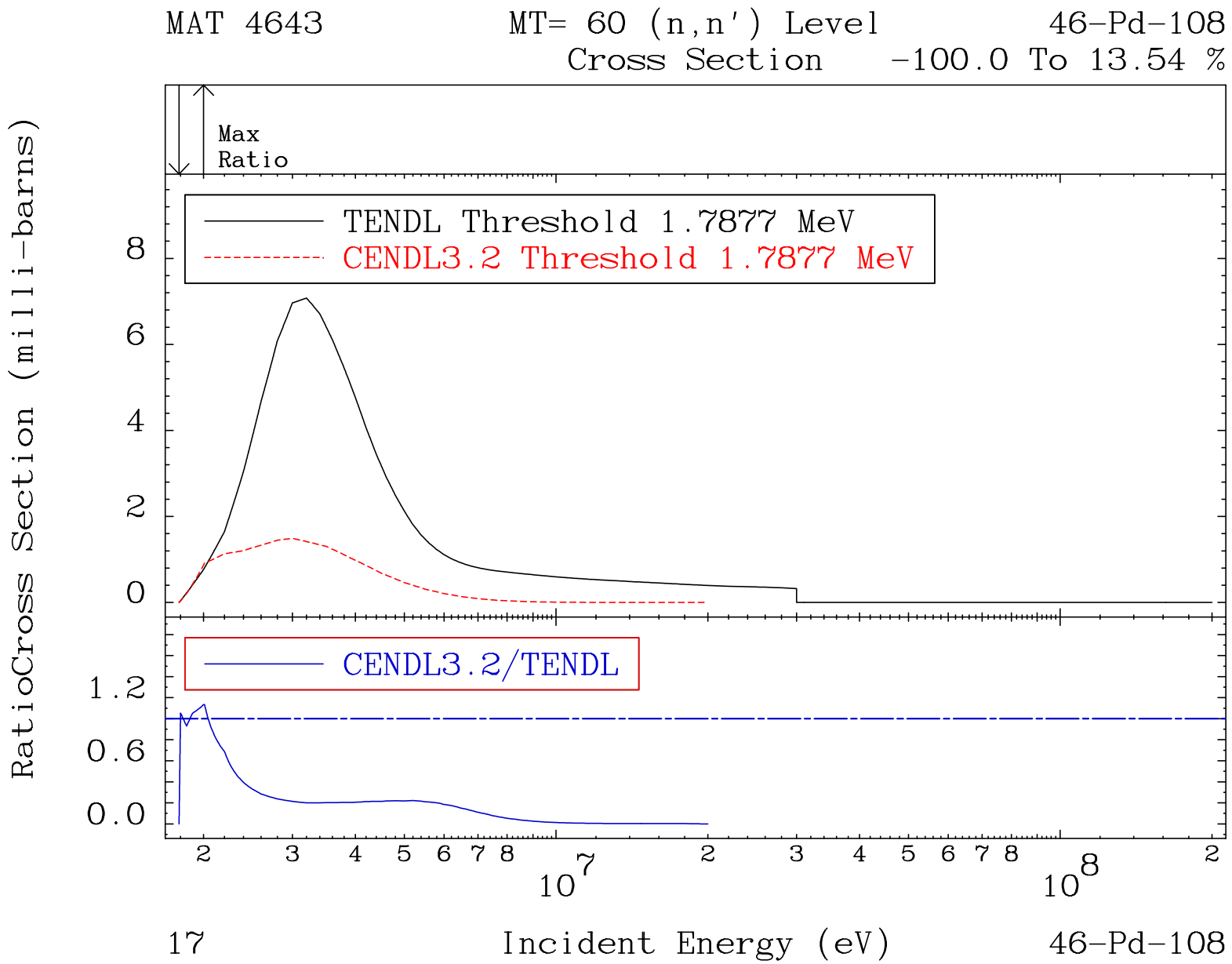

MAT 4643
MT= 55 (n,n') Level
46-Pd-108
Cross Section -78.15 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3265 MeV
CENDL3.2 Threshold 1.3265 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^4
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
46-Pd-108

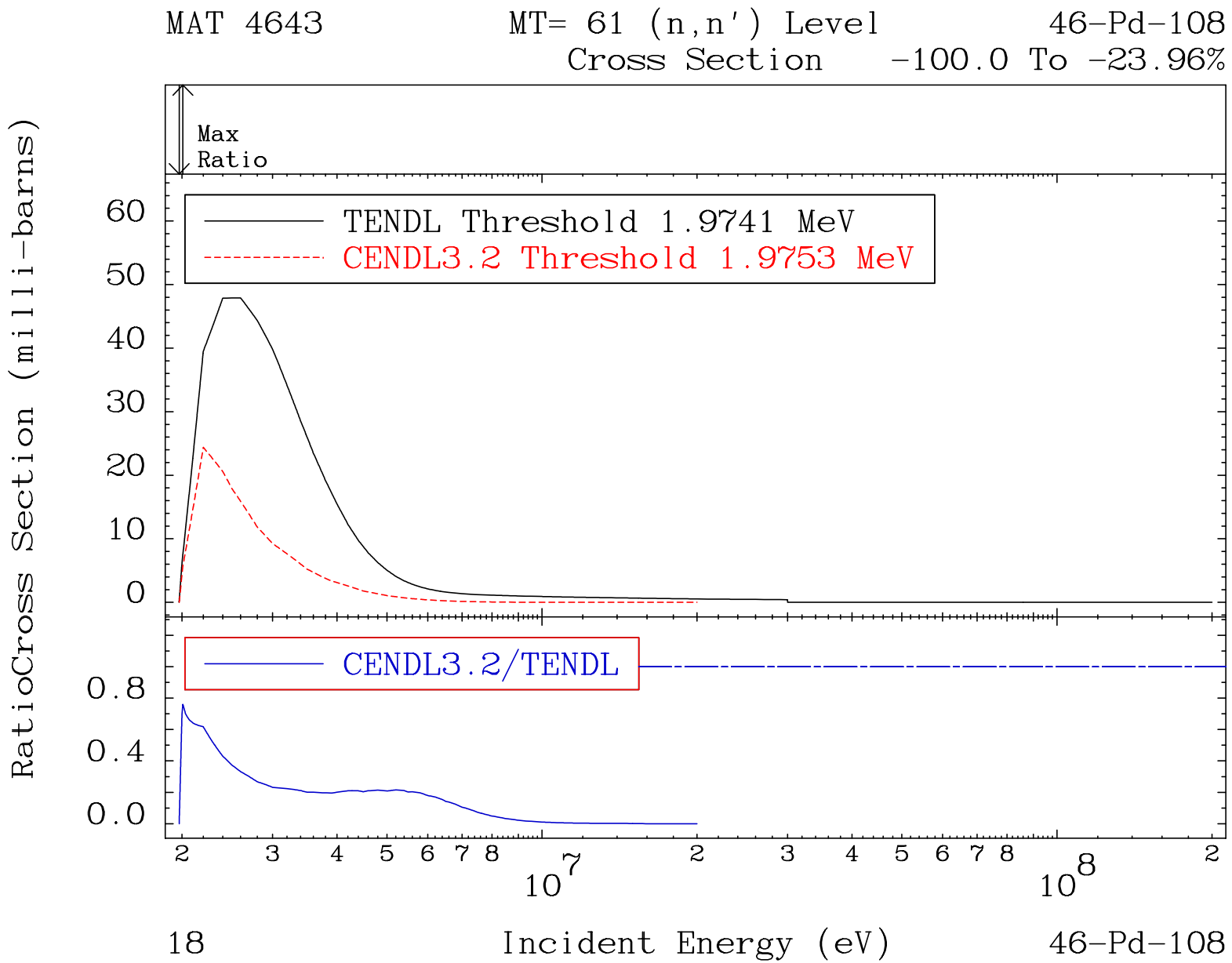

MAT 4643
MT= 56 (n,n') Level
46-Pd-108
Cross Section -79.22 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3477 MeV
CENDL3.2 Threshold 1.3477 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^4
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
46-Pd-108

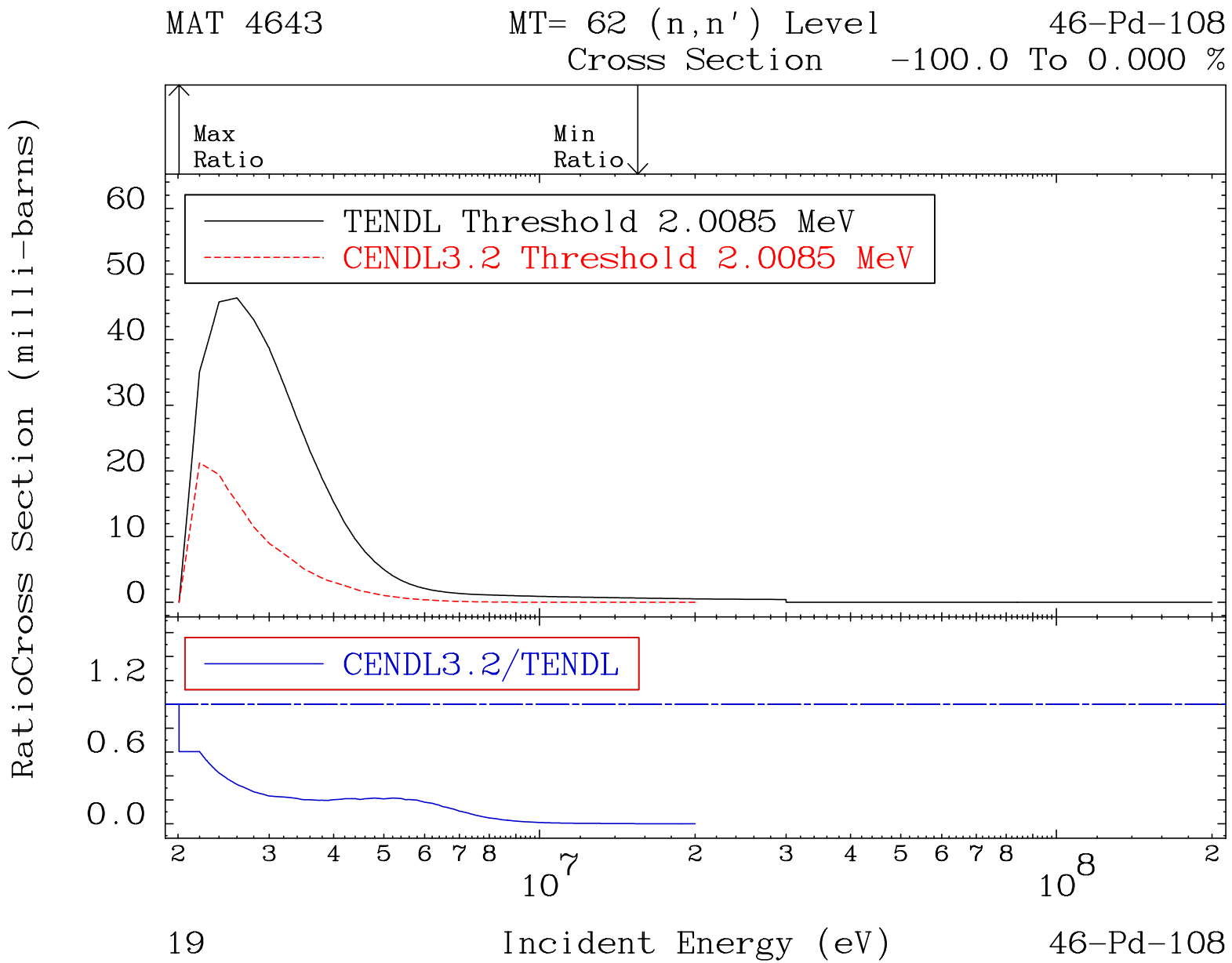

MAT 4643
MT= 57 (n,n') Level
46-Pd-108
Cross Section -34.44 To 3433. %
Min Ratio
Max Ratio
TENDL Threshold 1.4547 MeV
CENDL3.2 Threshold 1.4547 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^2
10^1
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
46-Pd-108

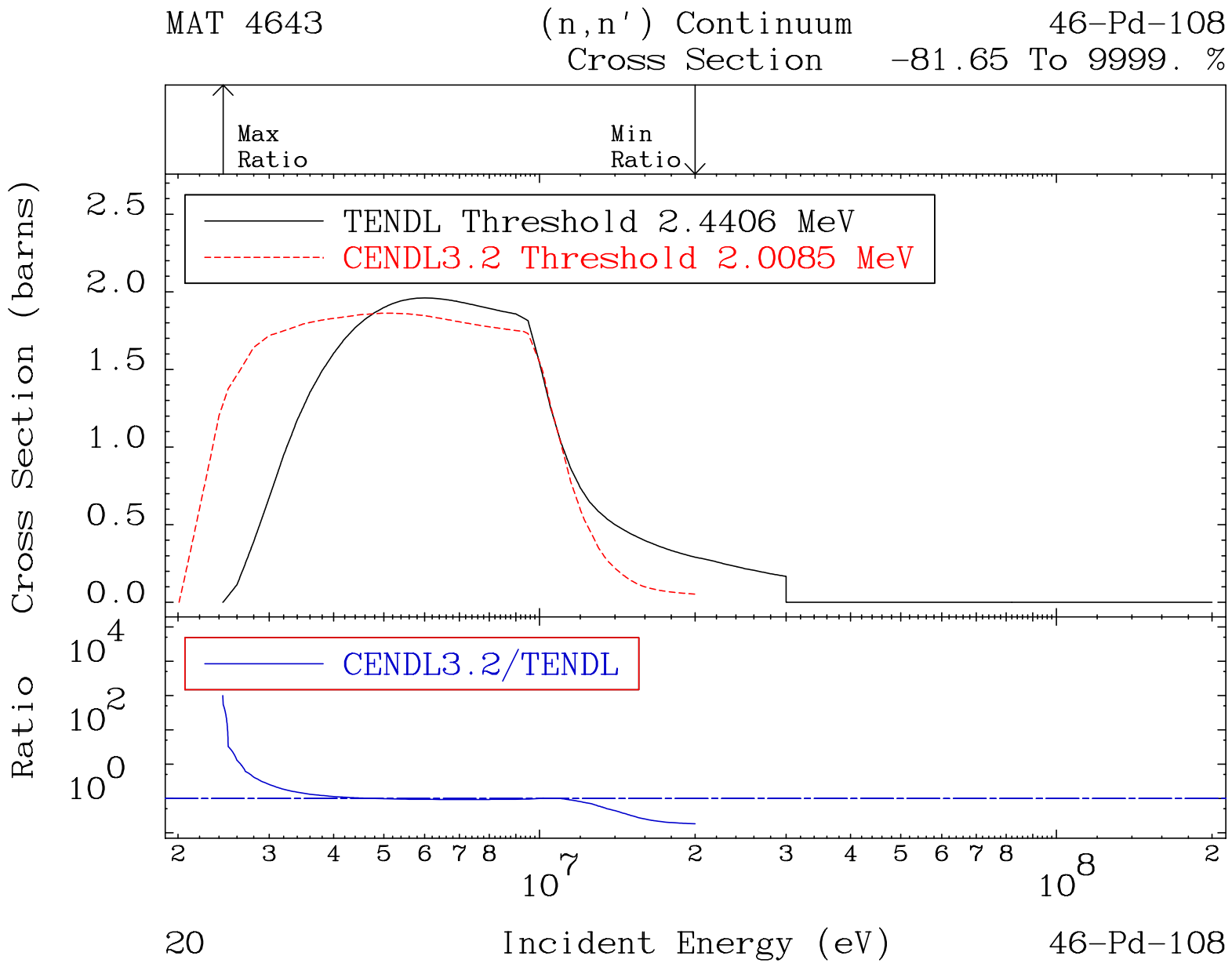

MAT 4643
MT= 58 (n,n') Level
46-Pd-108
Cross Section -27.14 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5544 MeV
CENDL3.2 Threshold 1.5544 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^8
10^4
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
46-Pd-108

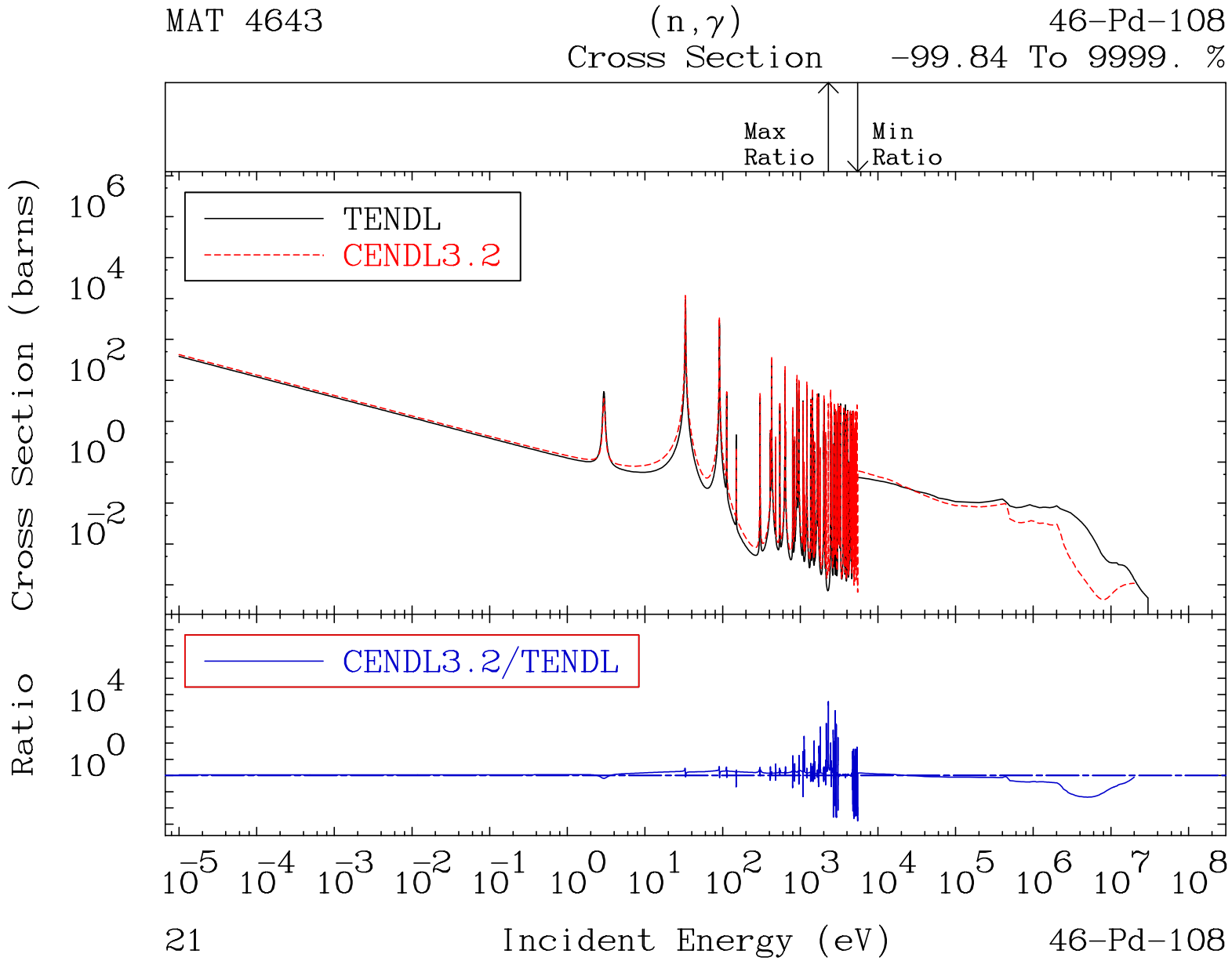

MAT 4643
MT= 59 (n,n') Level
46-Pd-108
Cross Section -100.0 To -7.731%
Max
Ratio
TENDL Threshold 1.6393 MeV
CENDL3.2 Threshold 1.6404 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
46-Pd-108

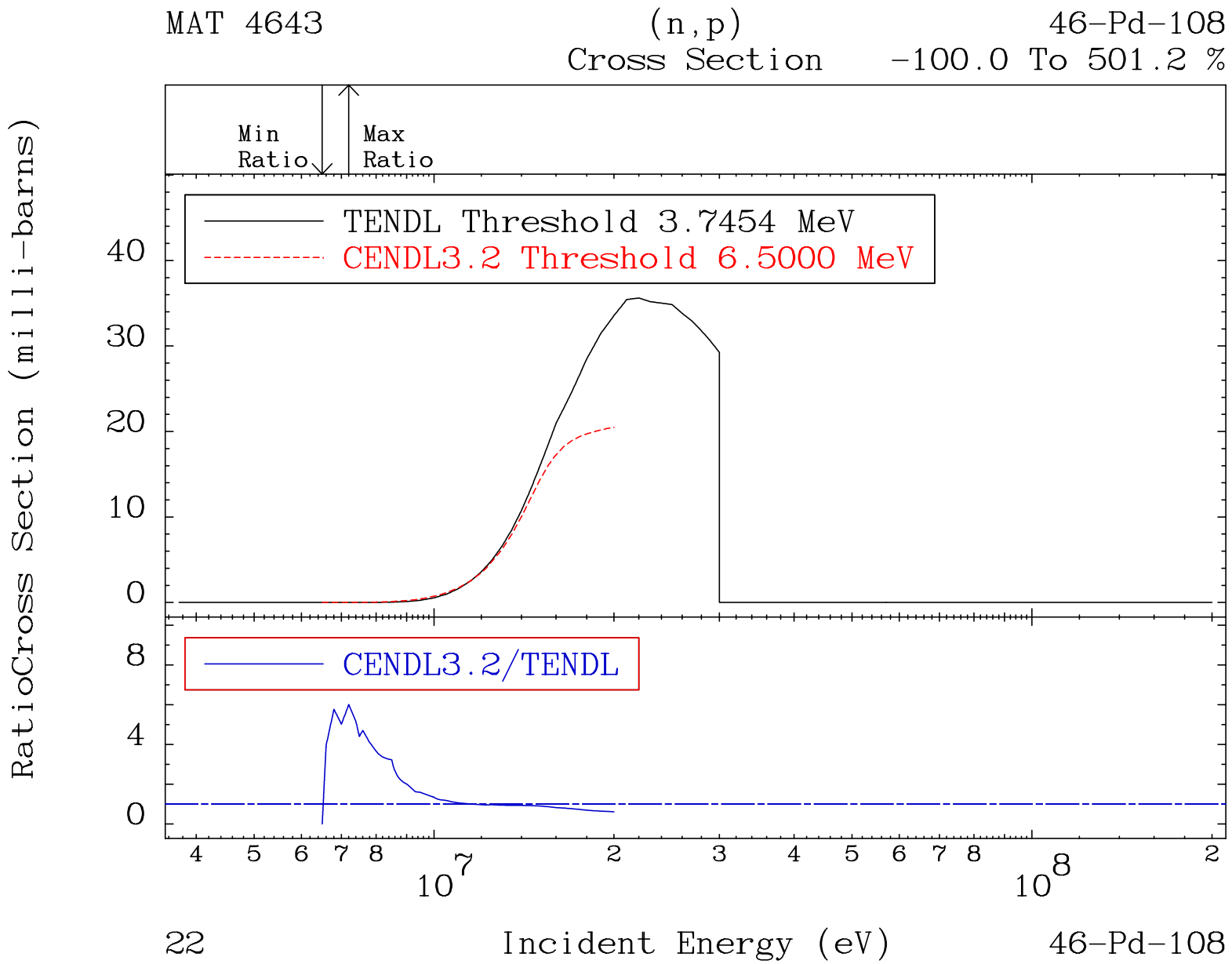

MAT 4643
MT= 60 (n,n') Level
46-Pd-108
Cross Section -100.0 To 13.54 %
Max
Ratio
TENDL Threshold 1.7877 MeV
CENDL3.2 Threshold 1.7877 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
0.0
0.6
1.2
2
3
4
5
6
7
8
10^7
10^8
17
Incident Energy (eV)
46-Pd-108

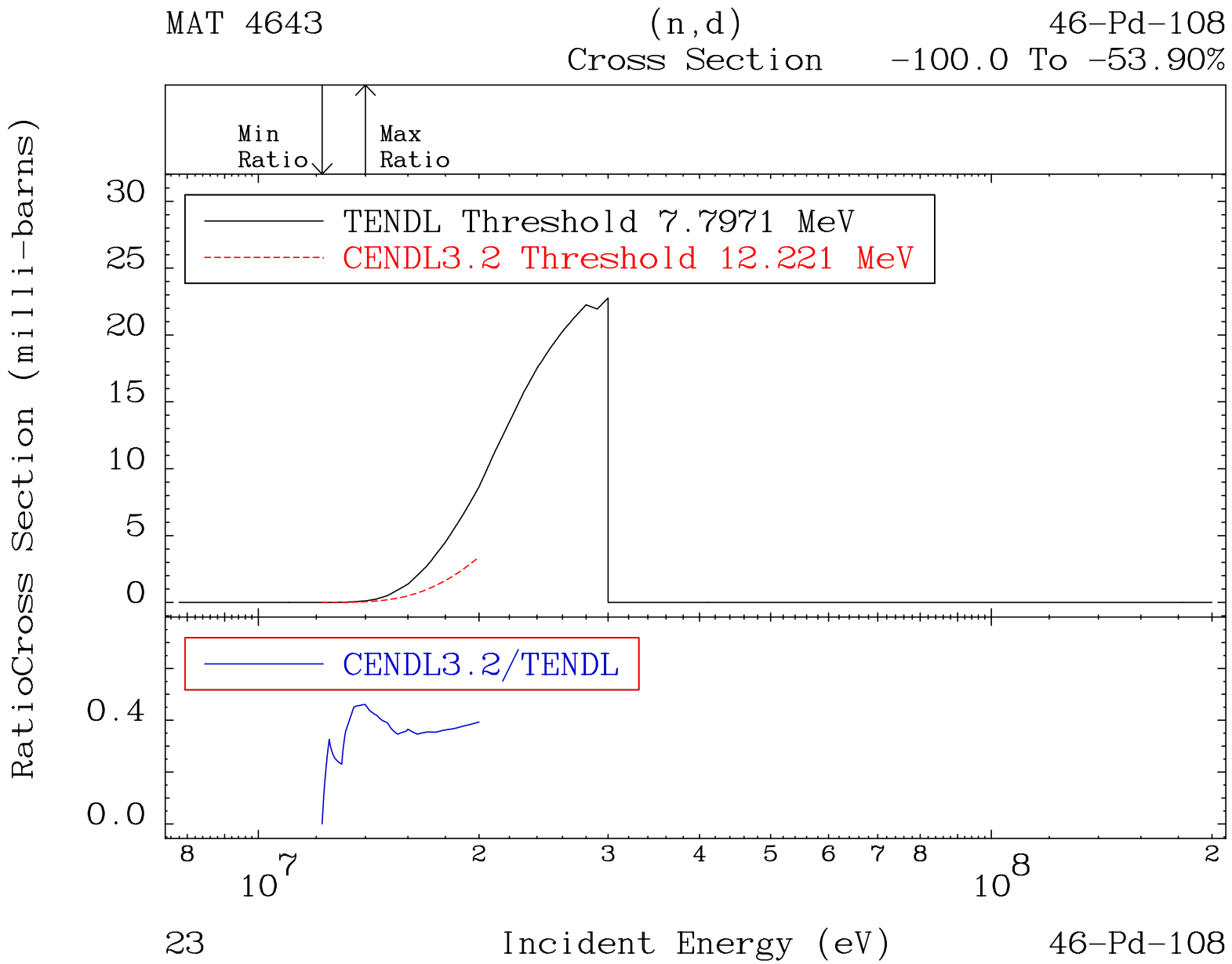

MAT 4643
MT= 61 (n,n') Level
46-Pd-108
Cross Section -100.0 To -23.96%
Max
Ratio
TENDL Threshold 1.9741 MeV
CENDL3.2 Threshold 1.9753 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
46-Pd-108

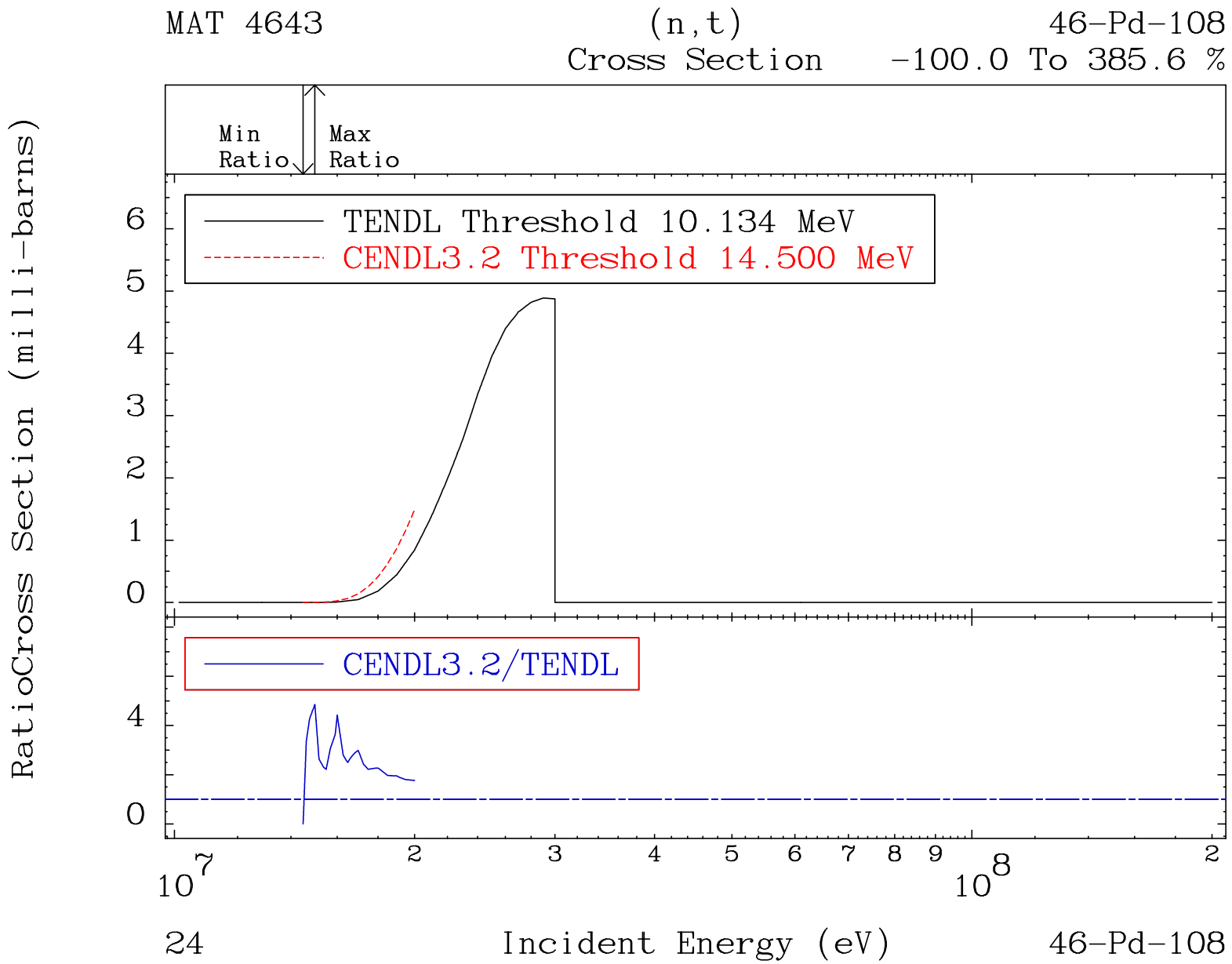

MAT 4643
MT= 62 (n,n') Level
46-Pd-108
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.0085 MeV
CENDL3.2 Threshold 2.0085 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
46-Pd-108

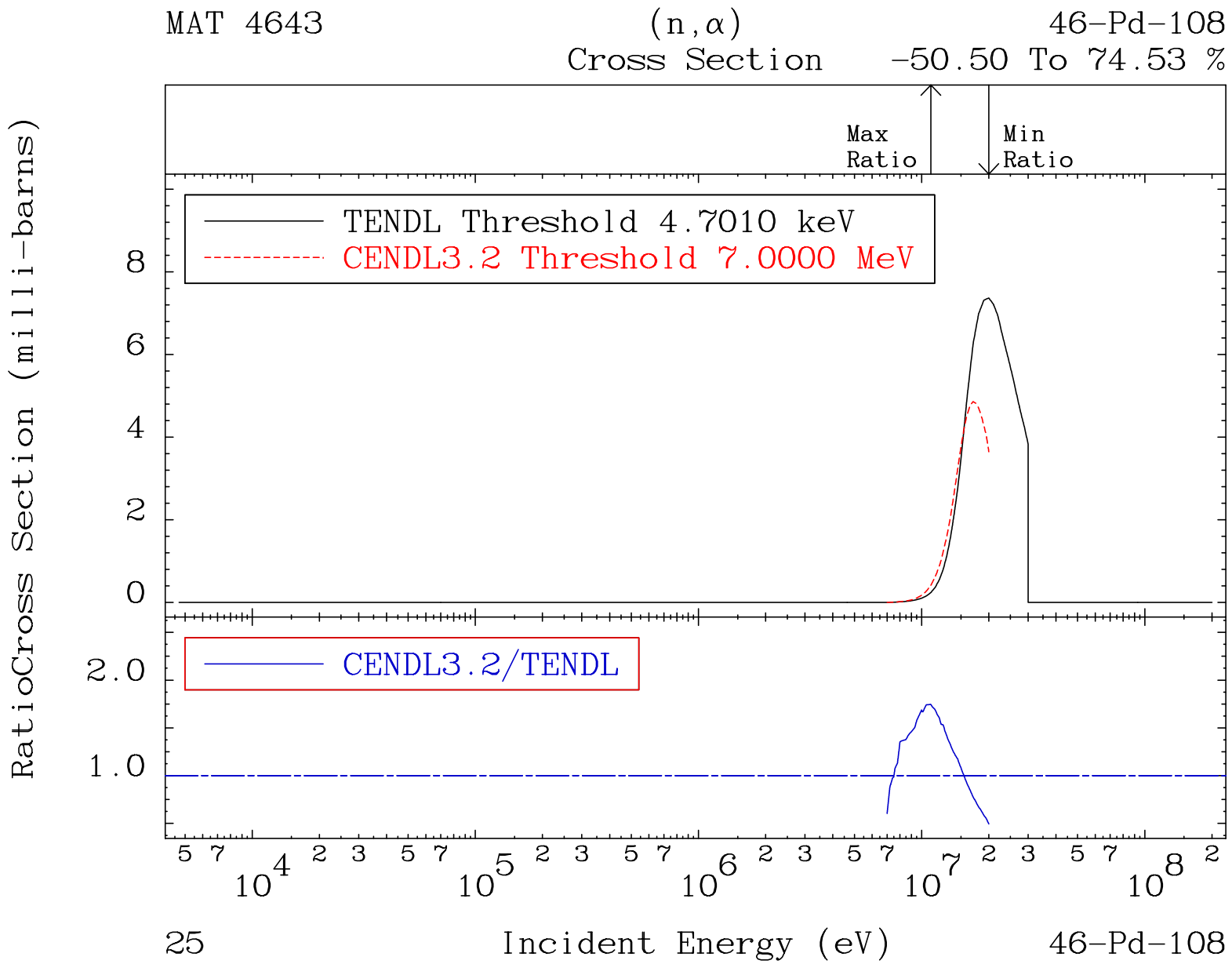

MAT 4643
(n,n') Continuum
Cross Section
46-Pd-108
-81.65 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.4406 MeV
CENDL3.2 Threshold 2.0085 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
20
46-Pd-108

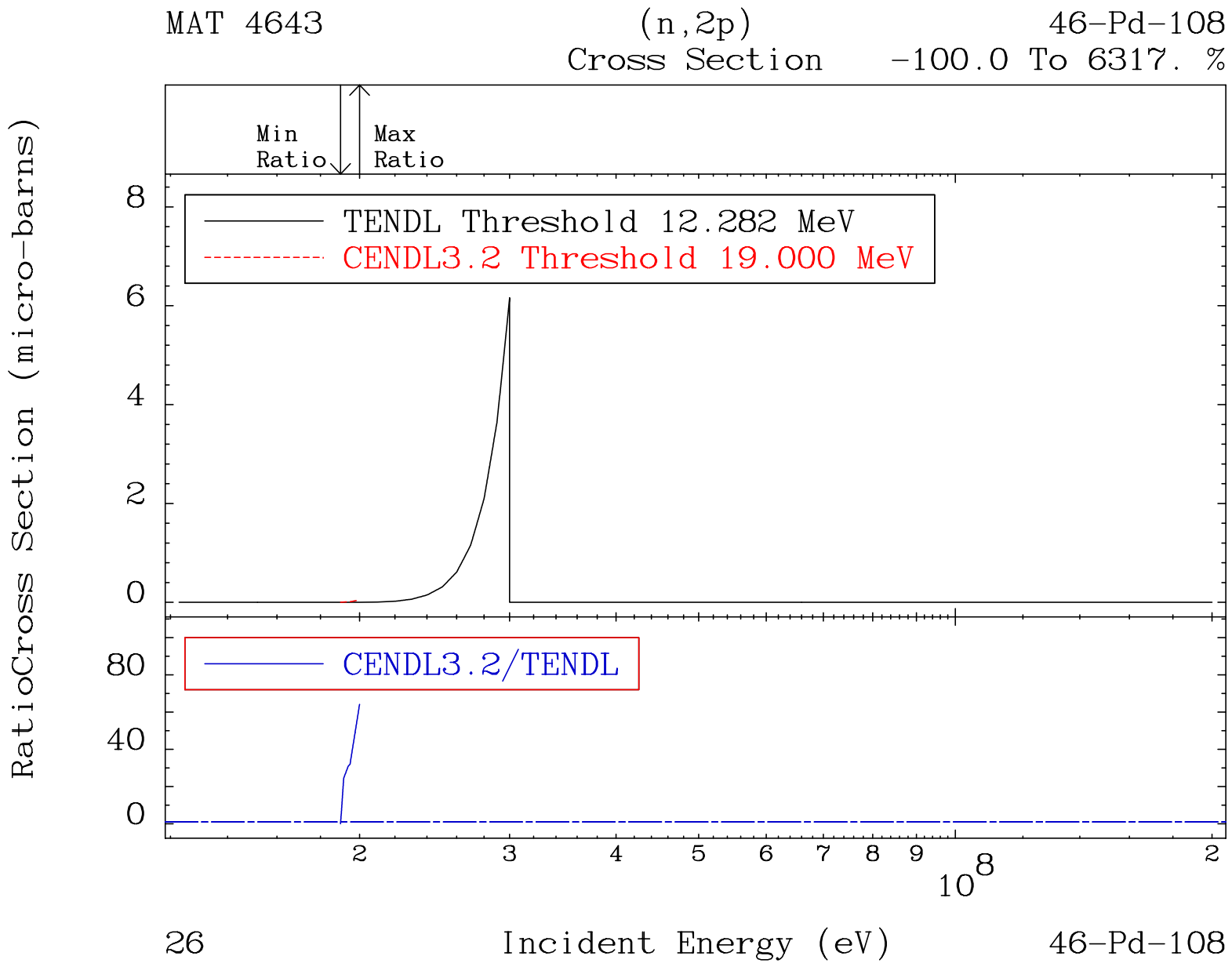

MAT 4643
(n,γ)
Cross Section
46-Pd-108
-99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
21
46-Pd-108

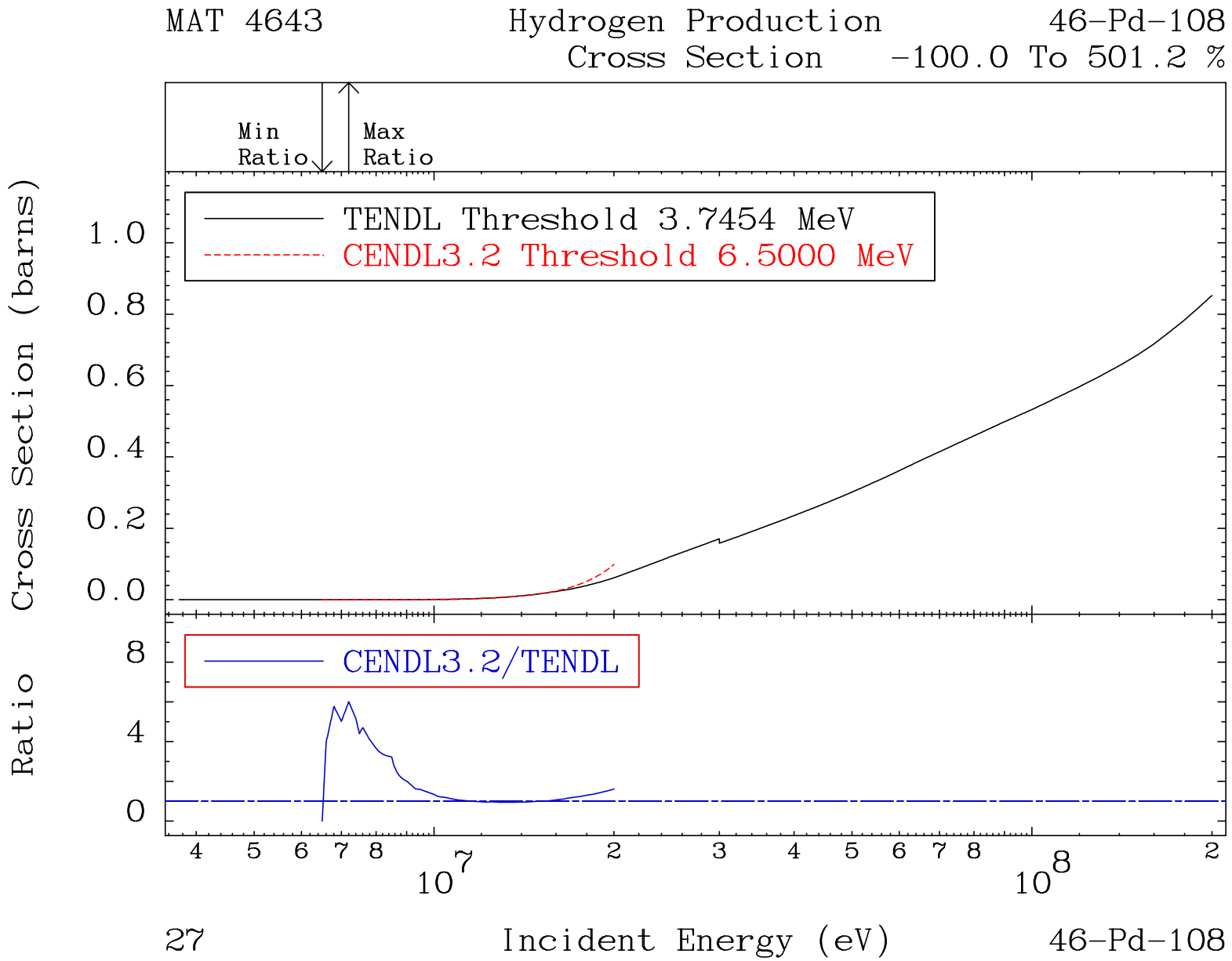

MAT 4643
(n,p)
46-Pd-108
Cross Section
-100.0 To 501.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.7454 MeV
CENDL3.2 Threshold 6.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
8
4
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
46-Pd-108

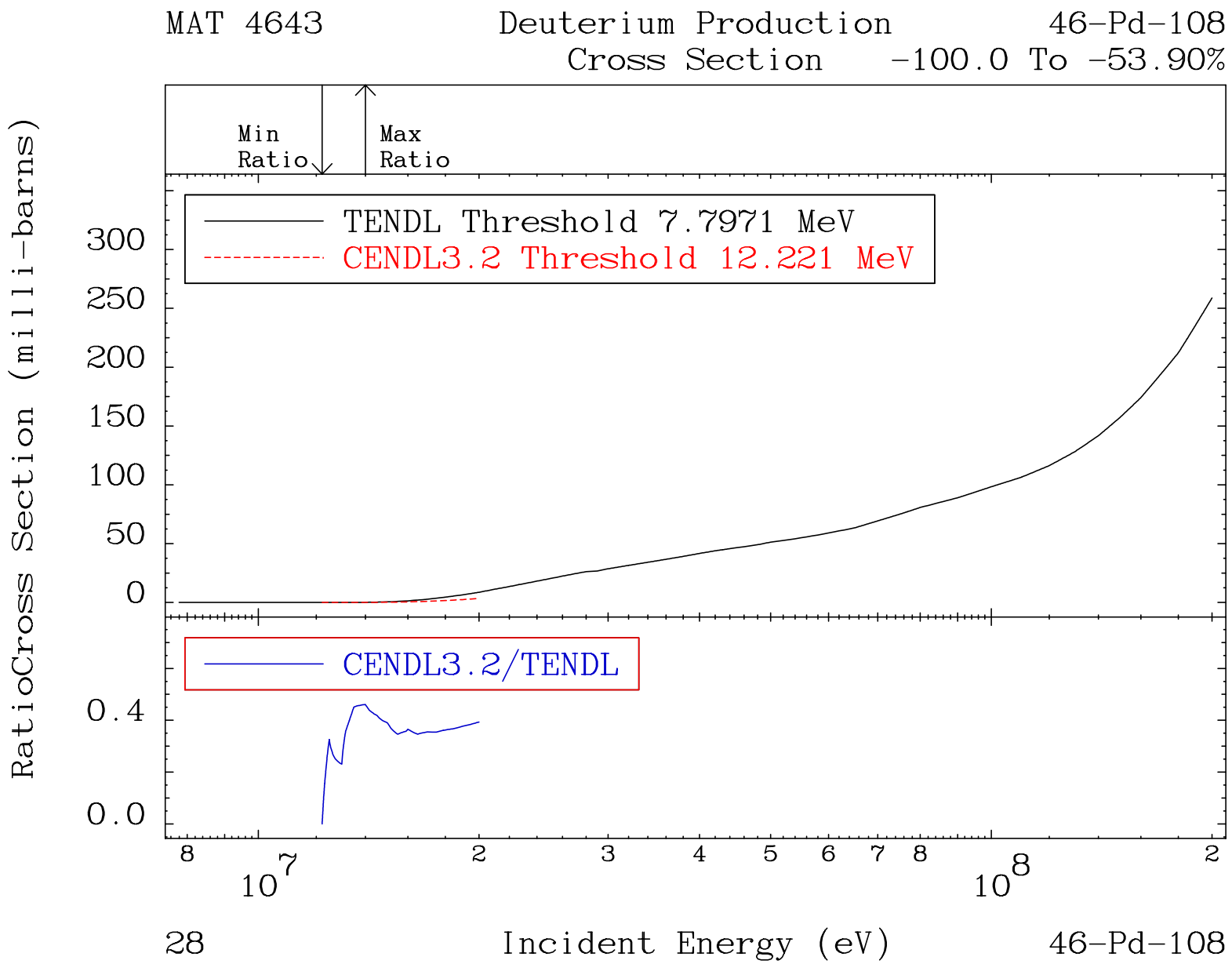

MAT 4643
(n,d)
Cross Section
46-Pd-108
-100.0 To -53.90%
Min Ratio
Max Ratio
TENDL Threshold 7.7971 MeV
CENDL3.2 Threshold 12.221 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
0.4
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
46-Pd-108

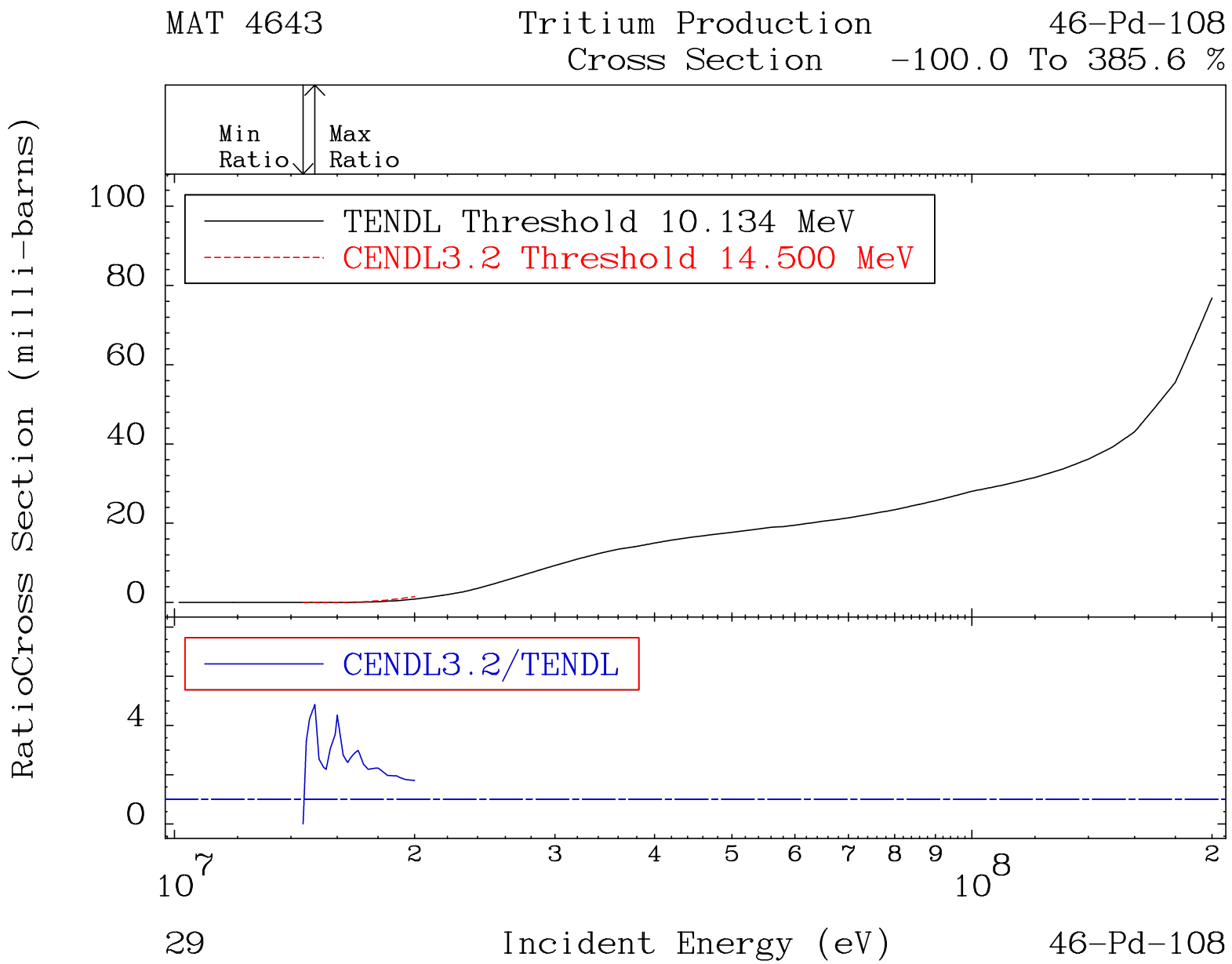

MAT 4643
(n,t)
Cross Section
46-Pd-108
-100.0 To 385.6 %
Min Ratio
Max Ratio
TENDL Threshold 10.134 MeV
CENDL3.2 Threshold 14.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
46-Pd-108

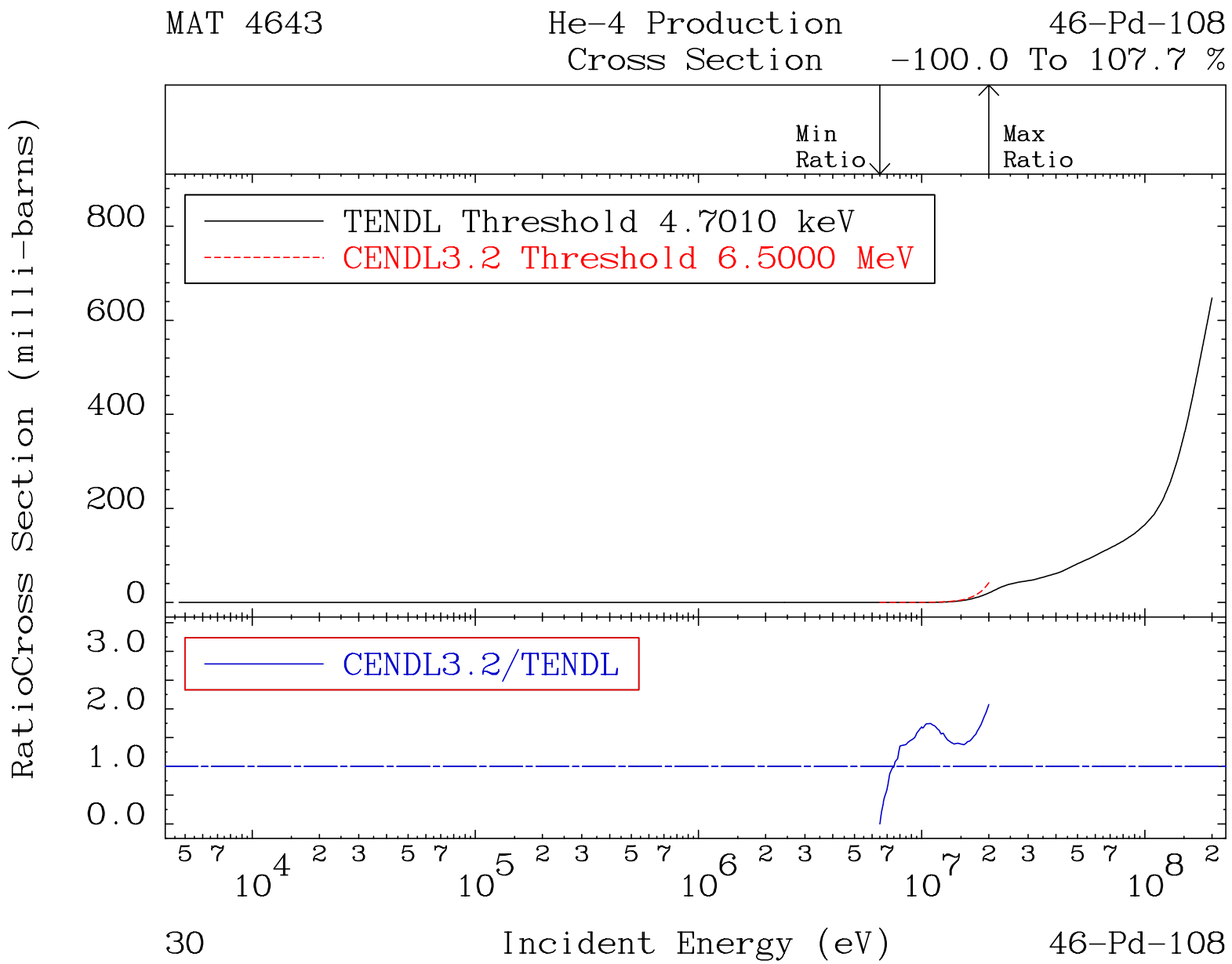

MAT 4643
(n,α)
Cross Section
46-Pd-108
-50.50 To 74.53 %
Max Ratio
Min Ratio
TENDL Threshold 4.7010 keV
CENDL3.2 Threshold 7.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
1.0
2.0
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
25
46-Pd-108

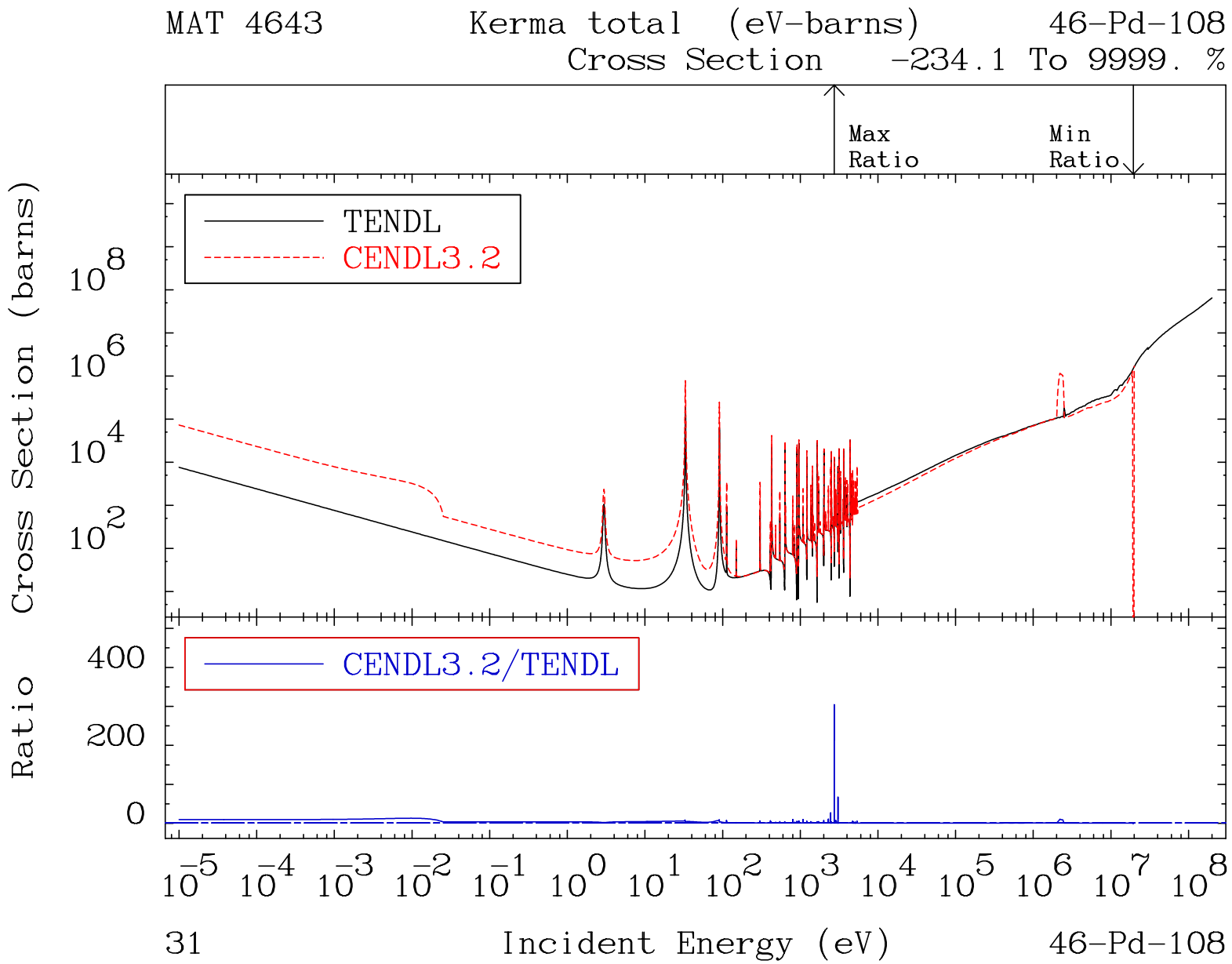

MAT 4643
(n,2p)
46-Pd-108
Cross Section
-100.0 To 6317. %
Min Ratio
Max Ratio
TENDL Threshold 12.282 MeV
CENDL3.2 Threshold 19.000 MeV
CENDL3.2/TENDL
RatioCross Section (micro-barns)
8
6
4
2
0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
26
Incident Energy (eV)
46-Pd-108

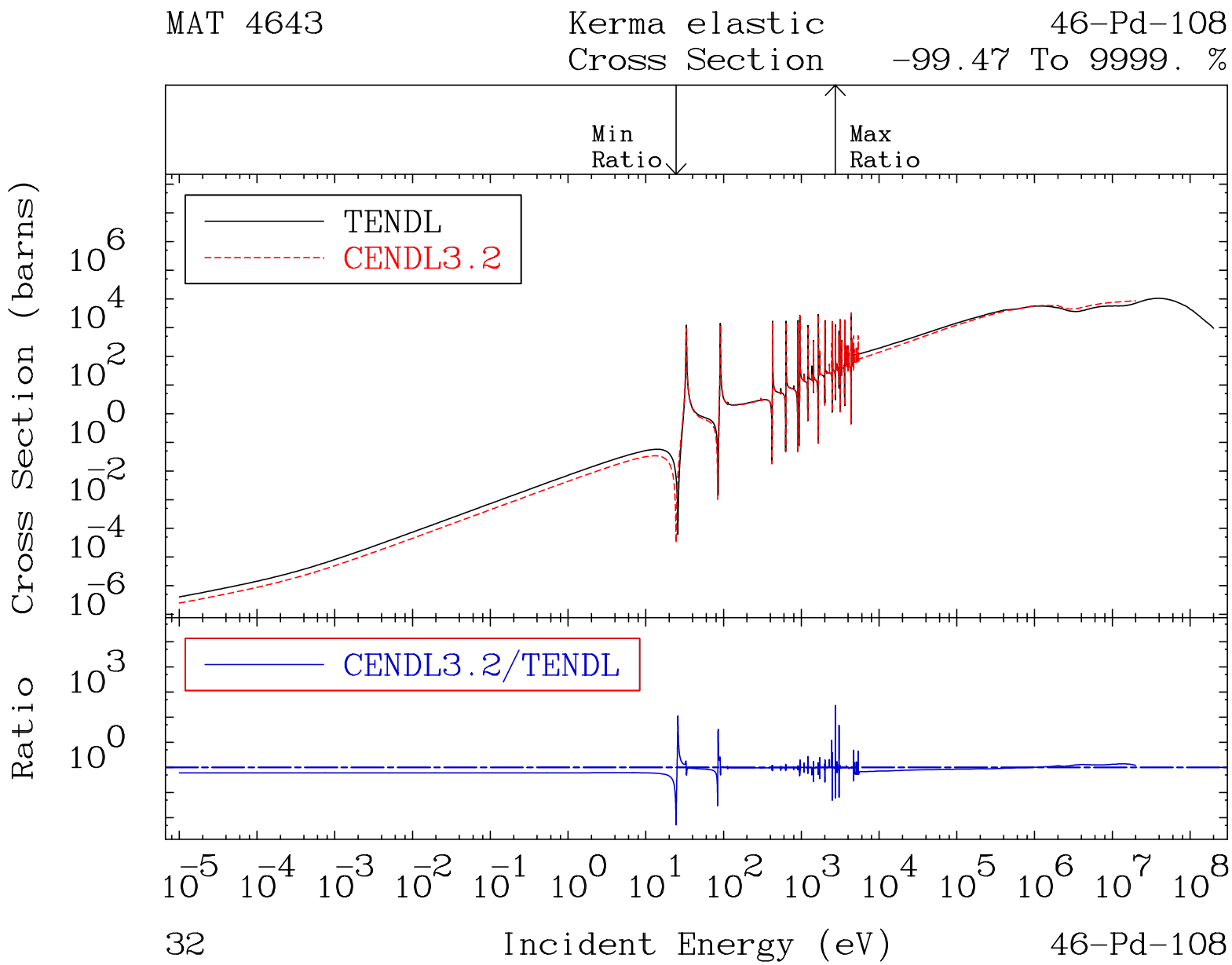

MAT 4643
Hydrogen Production
46-Pd-108
Cross Section
-100.0 To 501.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.7454 MeV
CENDL3.2 Threshold 6.5000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
8
4
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
46-Pd-108

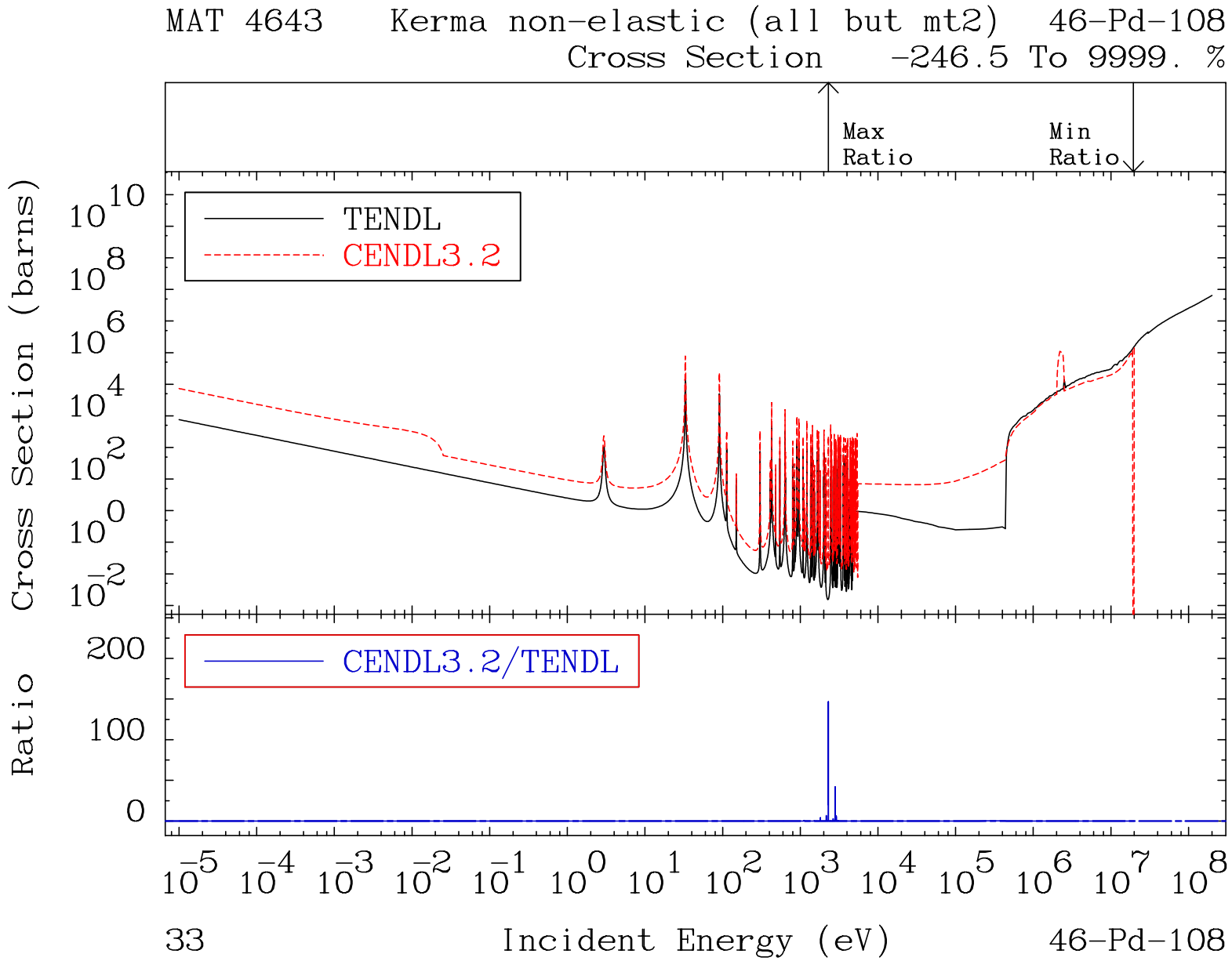

MAT 4643
Deuterium Production
46-Pd-108
Cross Section
-100.0 To -53.90%
Min Ratio
Max Ratio
TENDL Threshold 7.7971 MeV
CENDL3.2 Threshold 12.221 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
0.4
0.0
8
2
3
4
5
6
7
8
2
10^7
10^8
28
Incident Energy (eV)
46-Pd-108

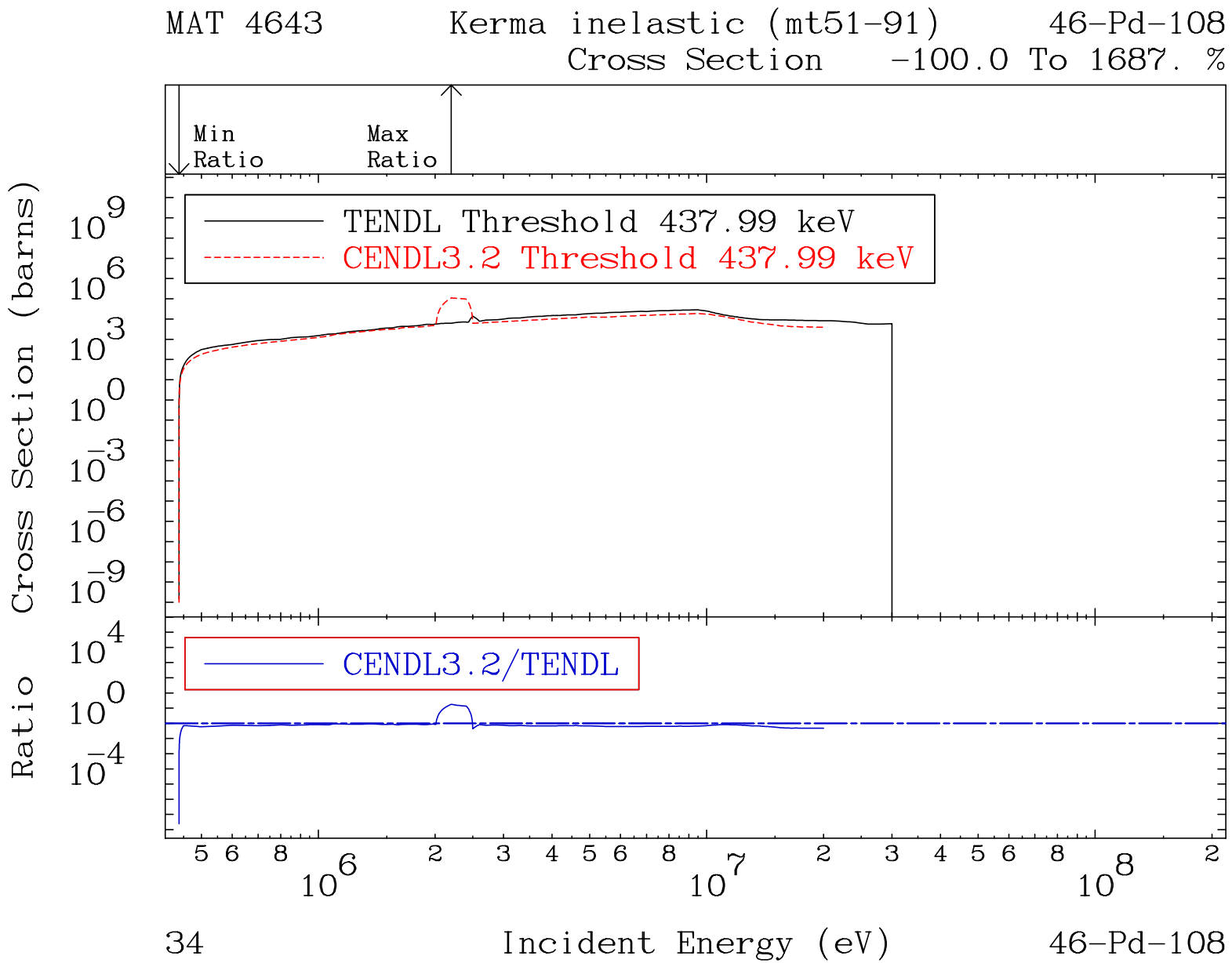

MAT 4643
Tritium Production
46-Pd-108
Cross Section
-100.0 To 385.6 %
Min Ratio
Max Ratio
TENDL Threshold 10.134 MeV
CENDL3.2 Threshold 14.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
46-Pd-108

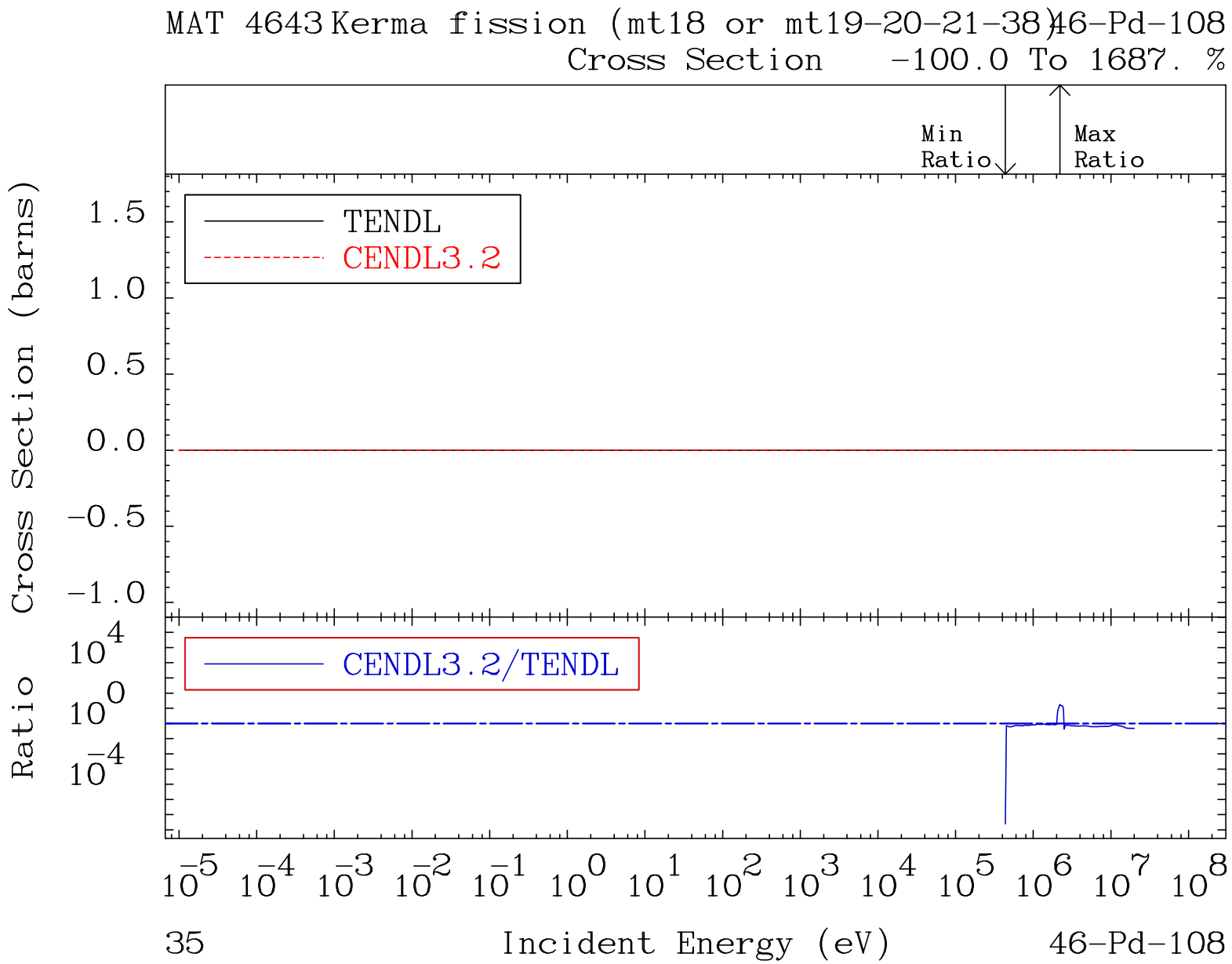

MAT 4643
He-4 Production
Cross Section
46-Pd-108
-100.0 To 107.7 %
Min Ratio
Max Ratio
TENDL Threshold 4.7010 keV
CENDL3.2 Threshold 6.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
3.0
2.0
1.0
0.0
5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
30
Incident Energy (eV)
46-Pd-108

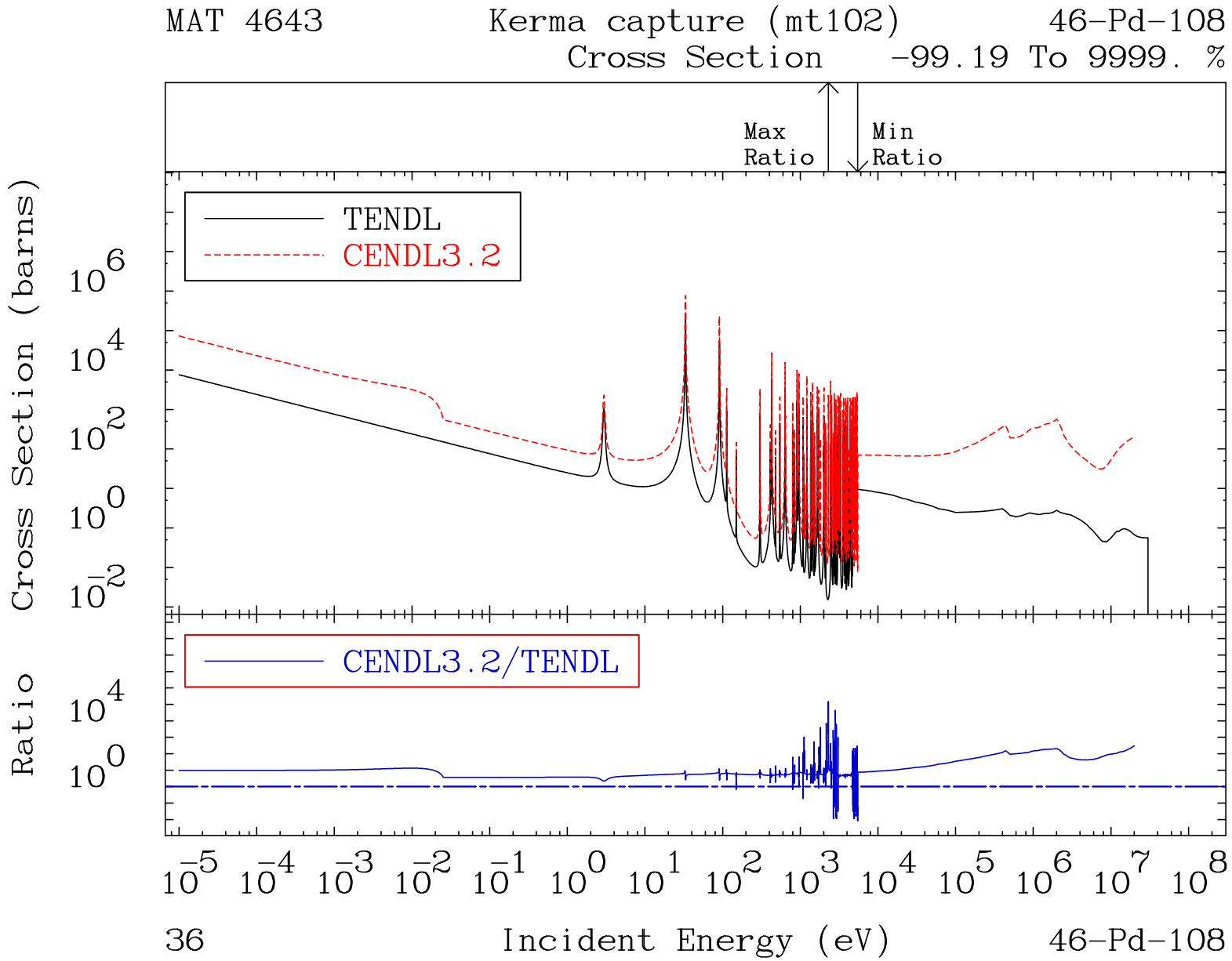

MAT 4643
Kerma total (eV-barns)
46-Pd-108
Cross Section -234.1 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^8
10^6
10^4
10^2
CENDL3.2/TENDL
Ratio
400
200
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
31
Incident Energy (eV)
46-Pd-108

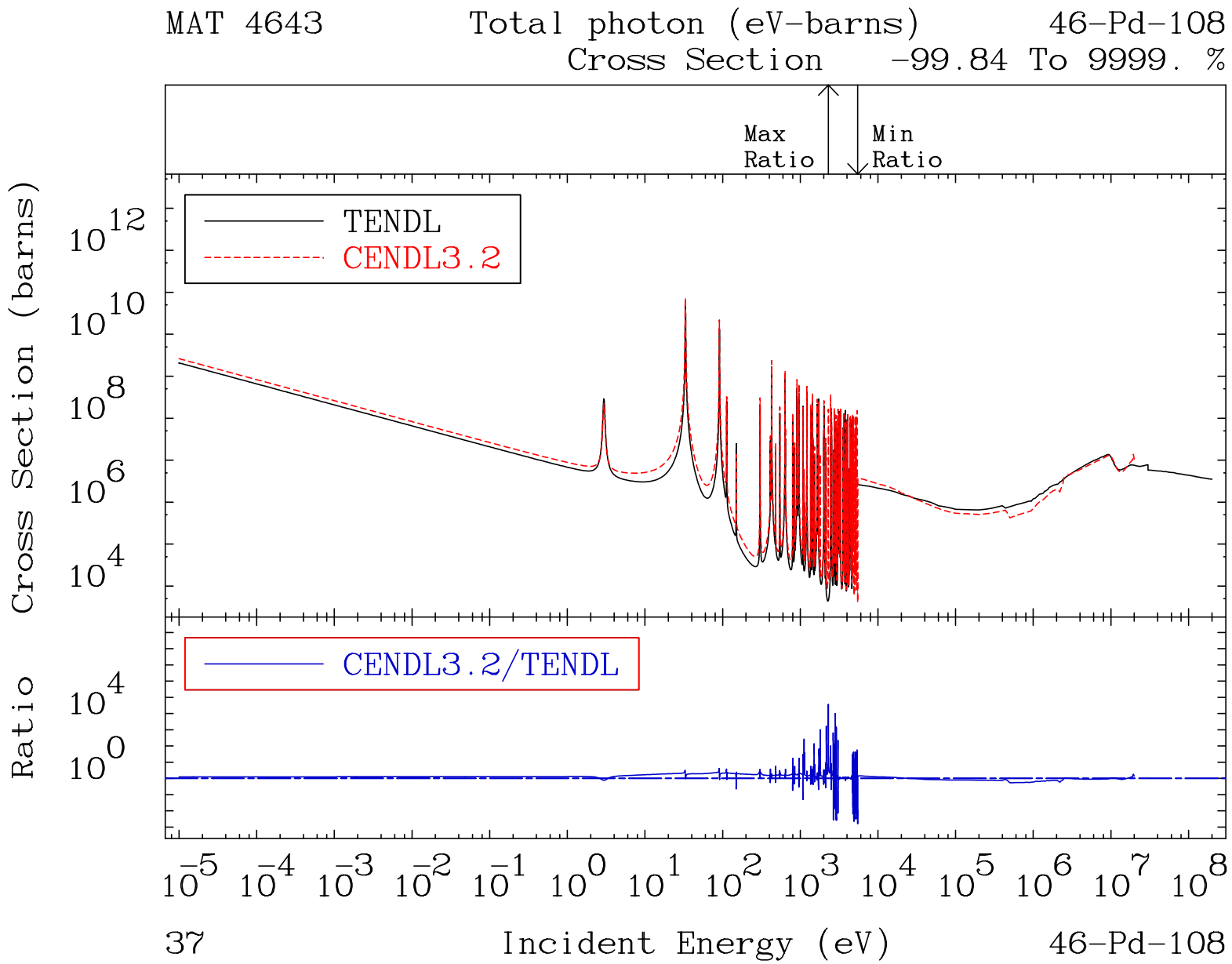

MAT 4643
Kerma elastic
Cross Section
46-Pd-108
-99.47 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
46-Pd-108

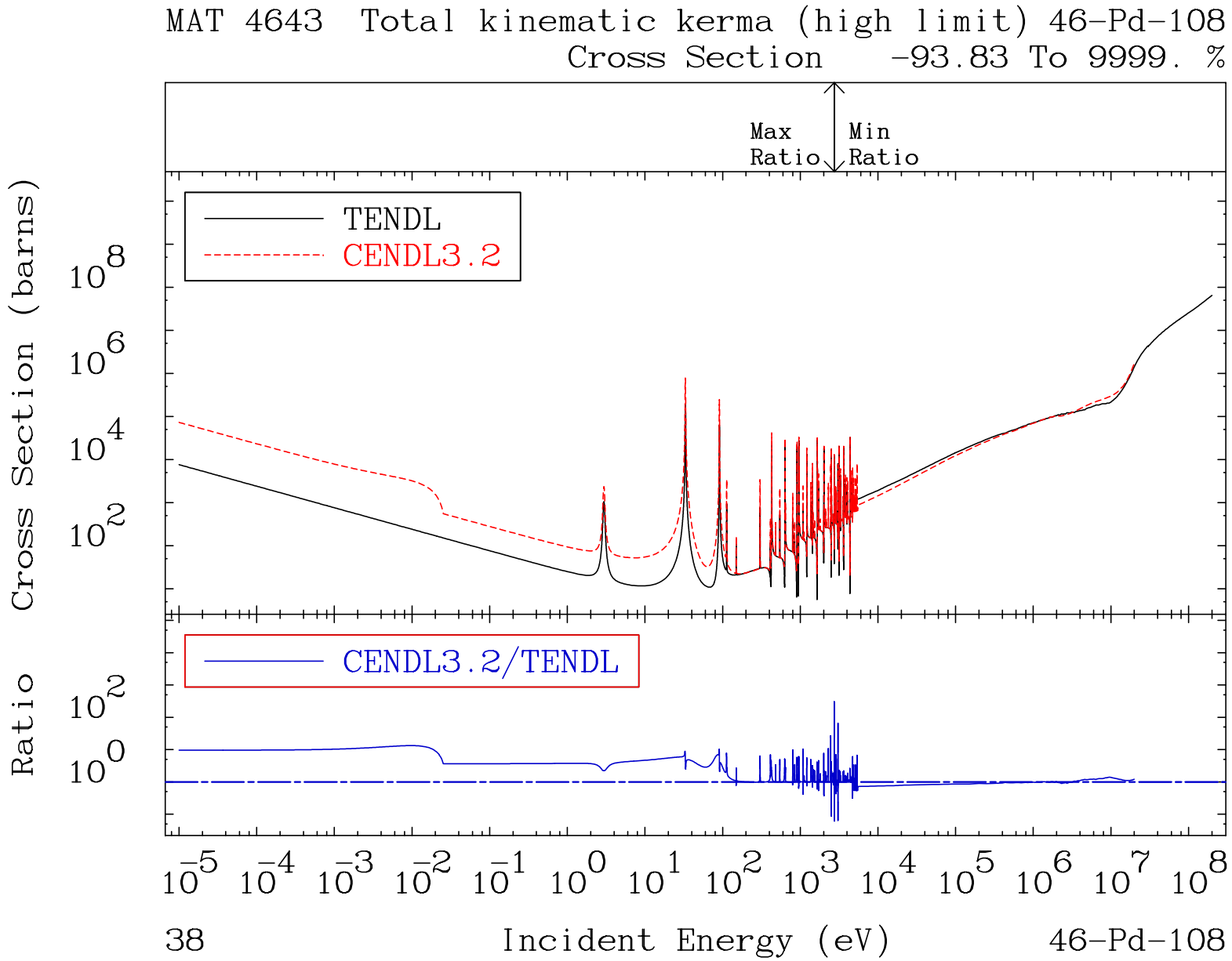

MAT 4643 Kerma non-elastic (all but mt2) 46-Pd-108
Cross Section -246.5 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
33
46-Pd-108

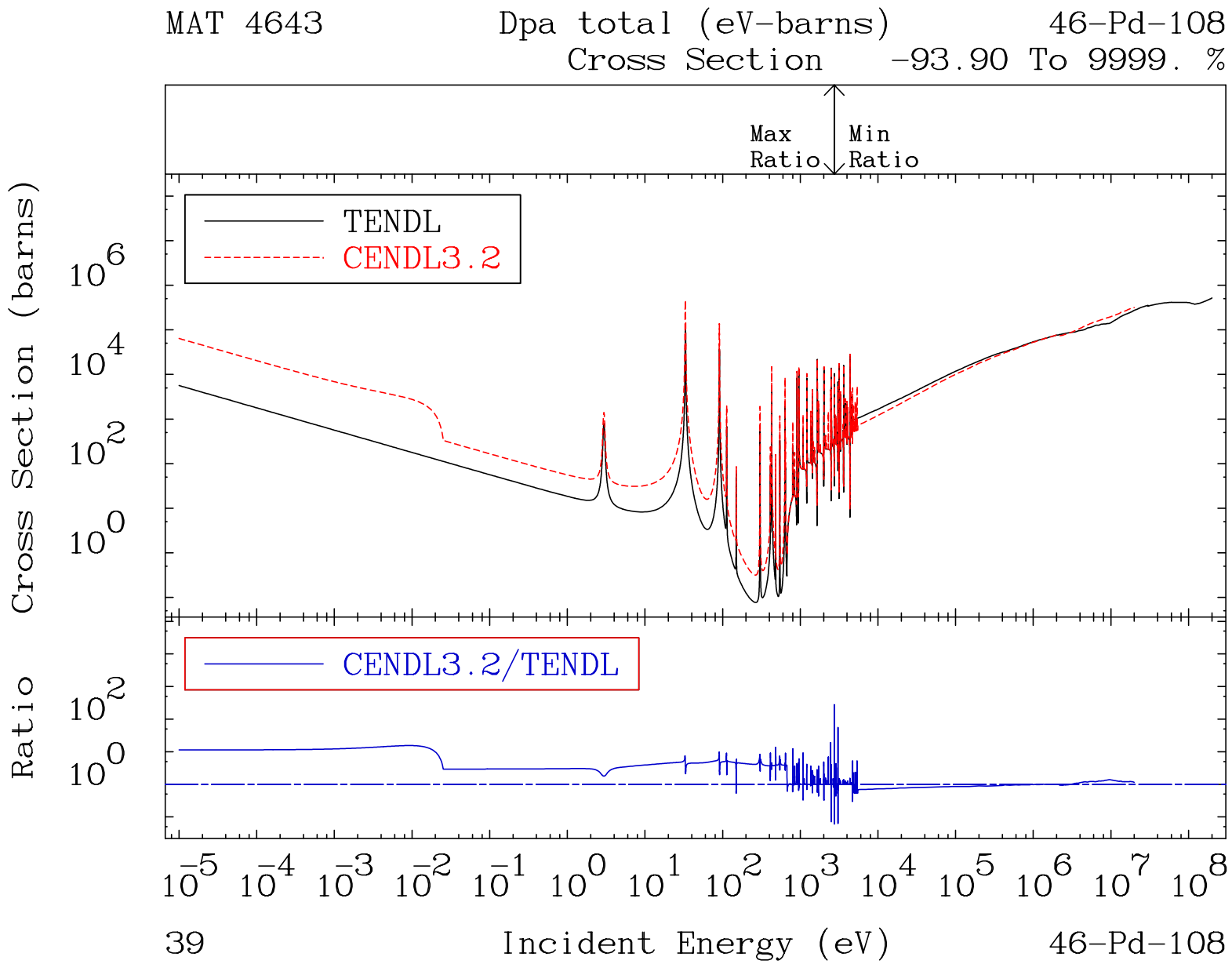

MAT 4643
Kerma inelastic (mt51-91)
46-Pd-108
Cross Section -100.0 To 1687. %
Min Ratio
Max Ratio
TENDL Threshold 437.99 keV
CENDL3.2 Threshold 437.99 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
46-Pd-108

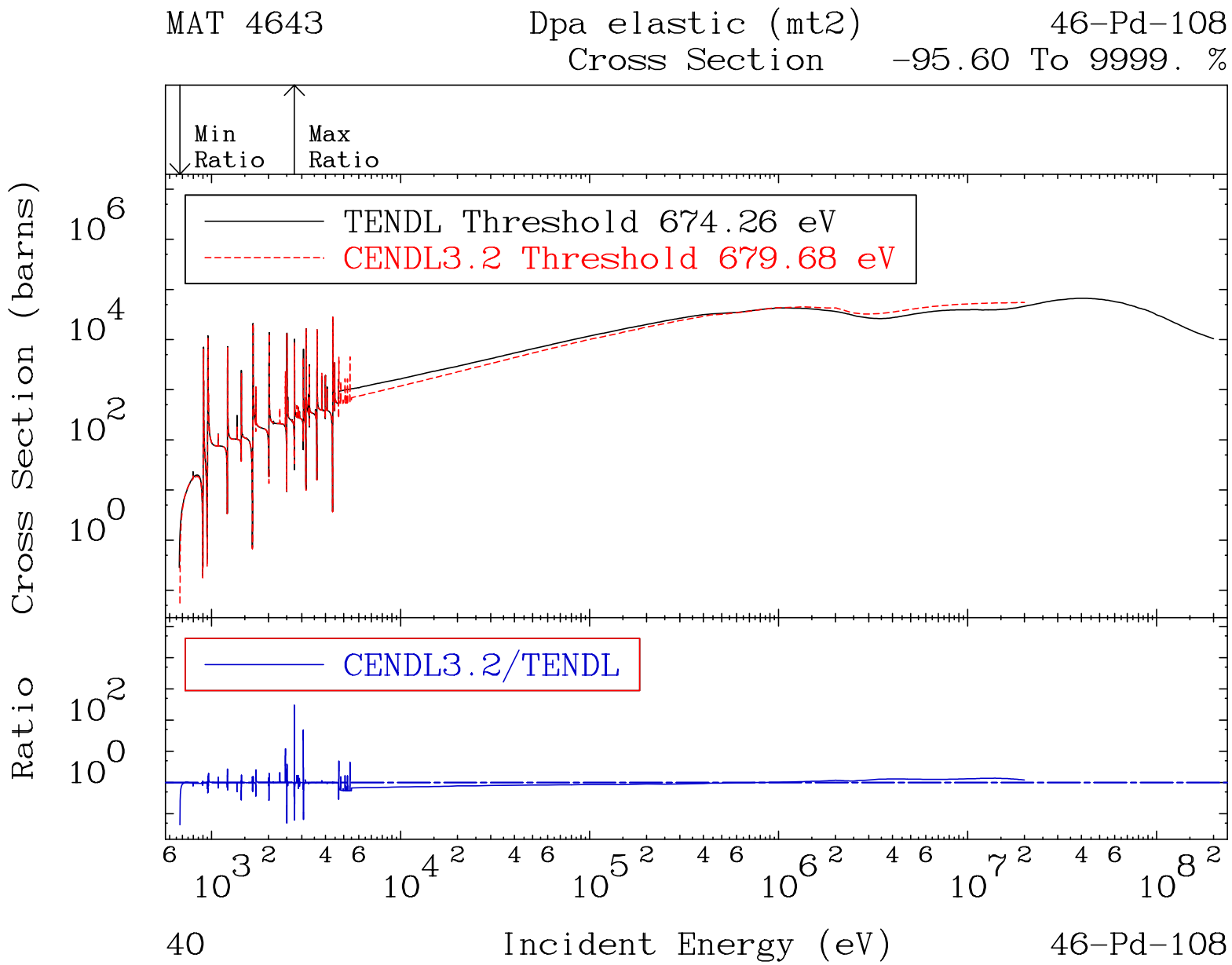

MAT 4643 Kerma fission (mt18 or mt19-20-21-38) 46-Pd-108
Cross Section -100.0 To 1687. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
35
Incident Energy (eV)
46-Pd-108

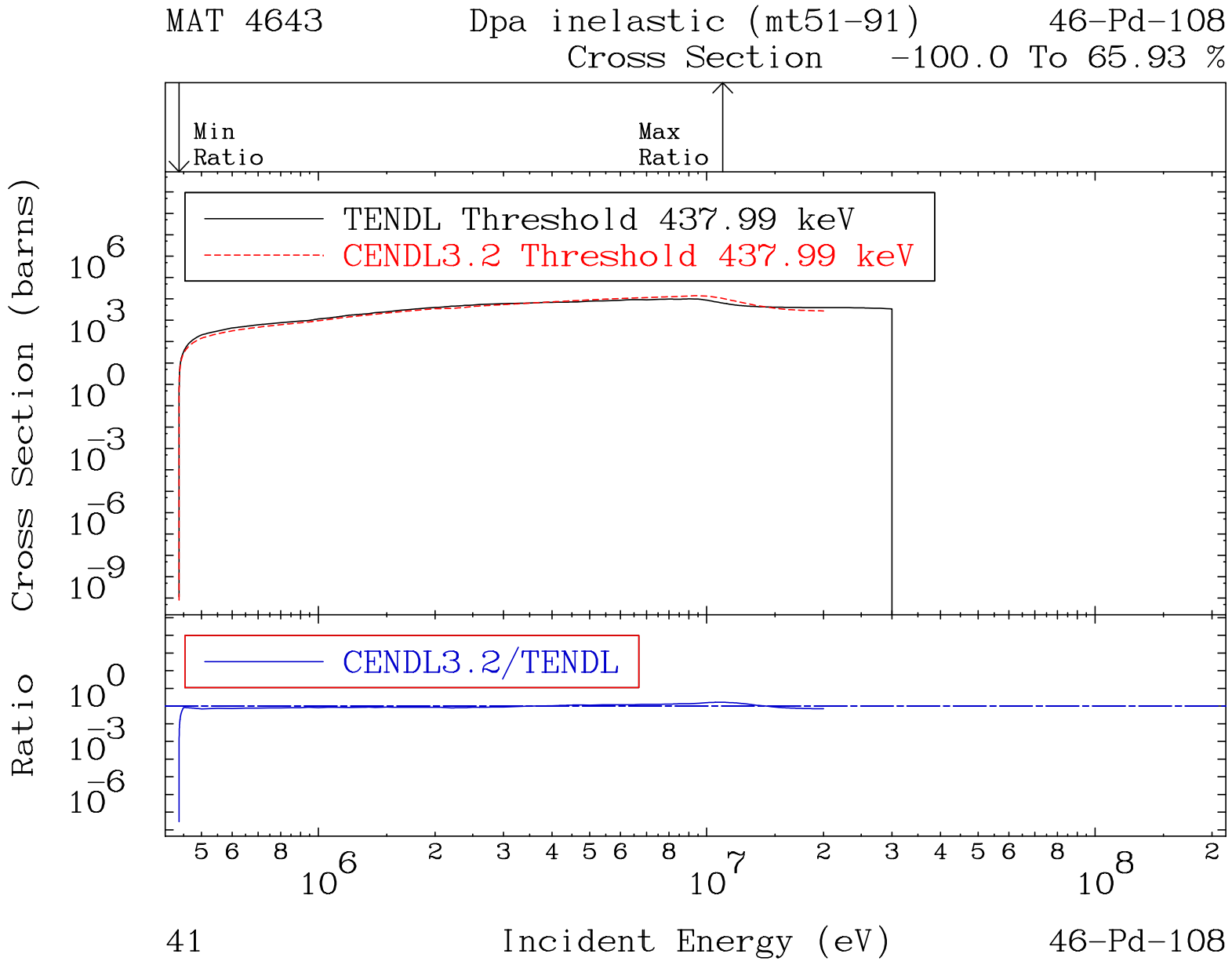

MAT 4643
Kerma capture (mt102)
46-Pd-108
Cross Section
-99.19 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
36
46-Pd-108

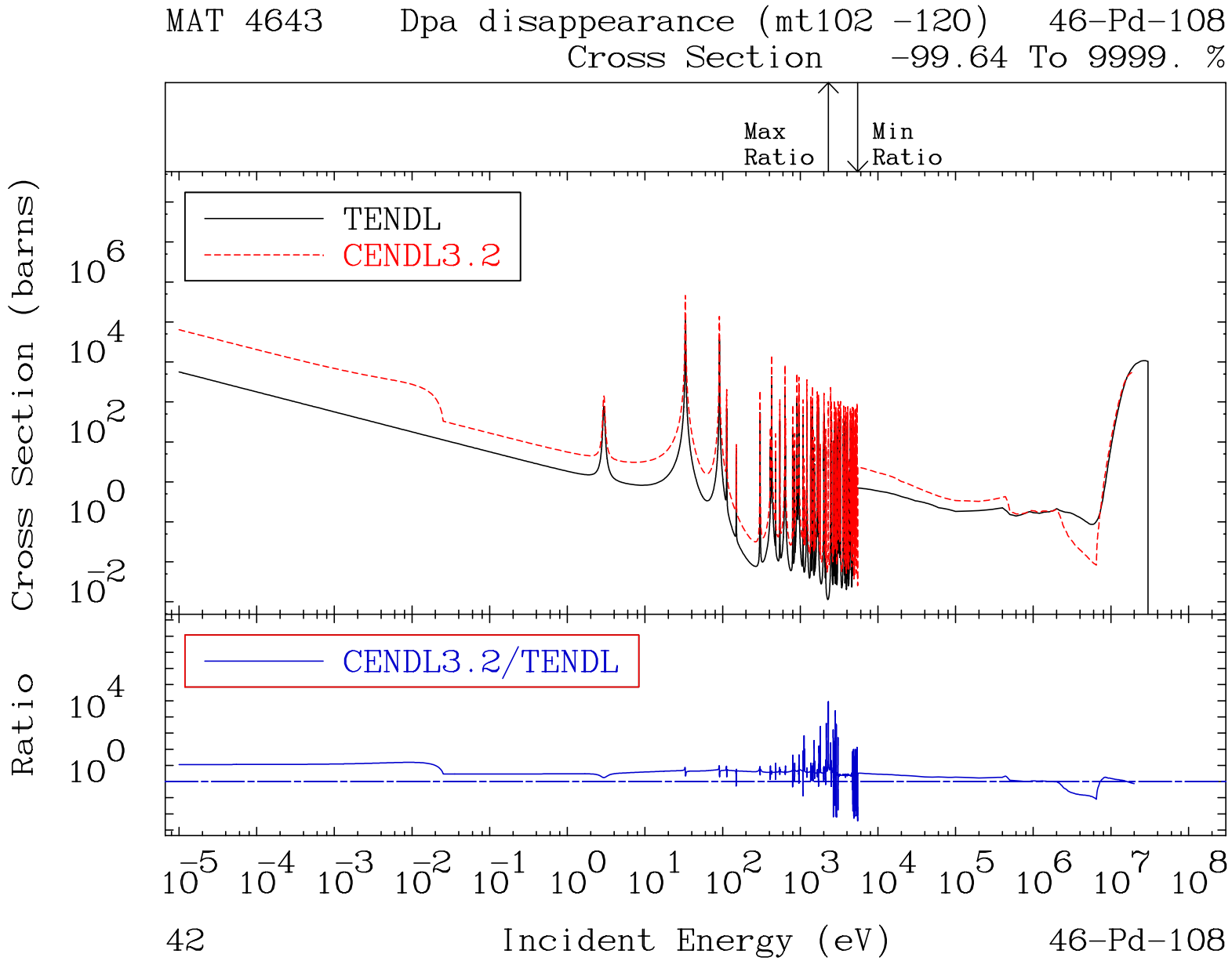

MAT 4643
Total photon (eV-barns)
46-Pd-108
Cross Section -99.84 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
46-Pd-108

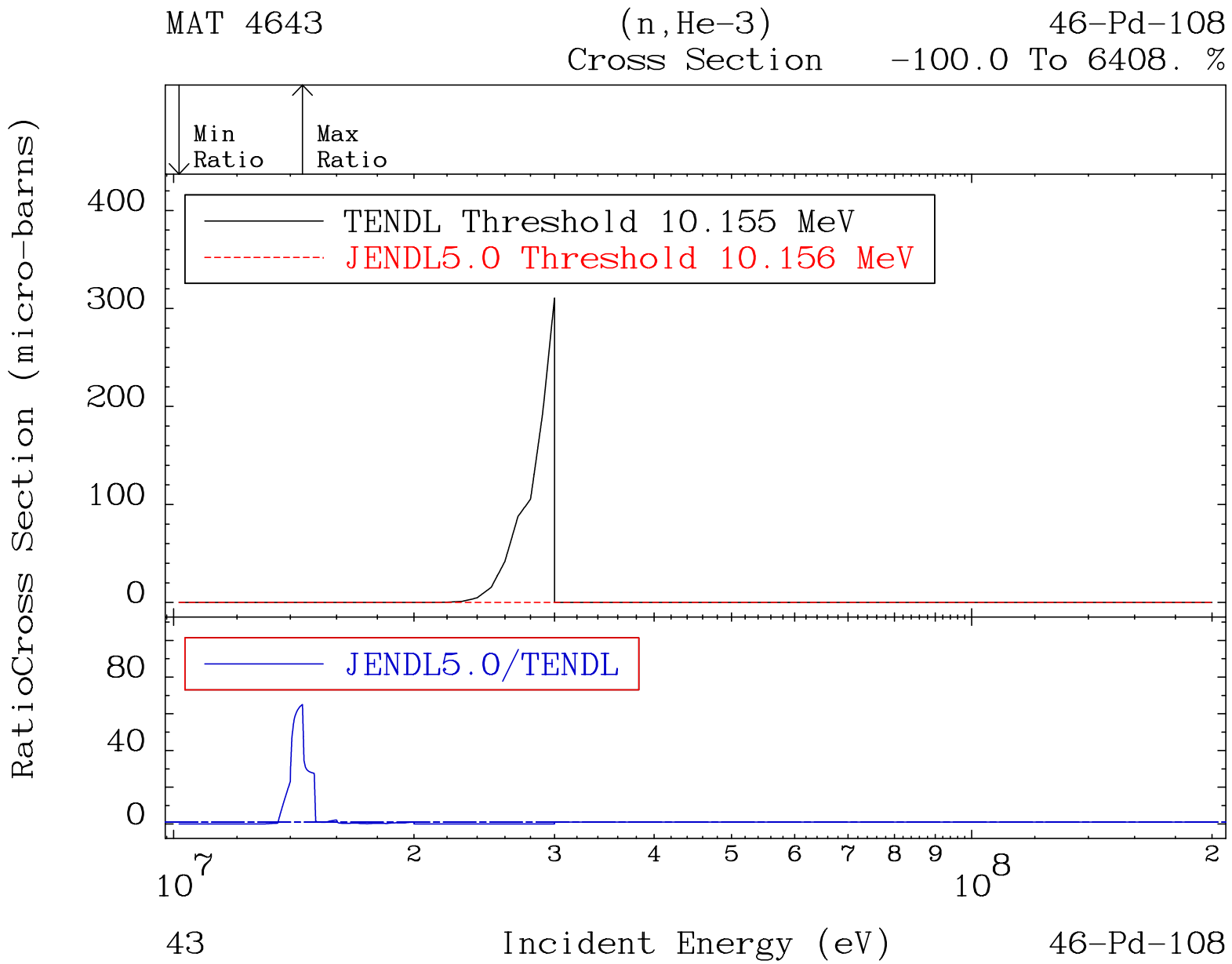

MAT 4643 Total kinematic kerma (high limit) 46-Pd-108
Cross Section -93.83 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
46-Pd-108

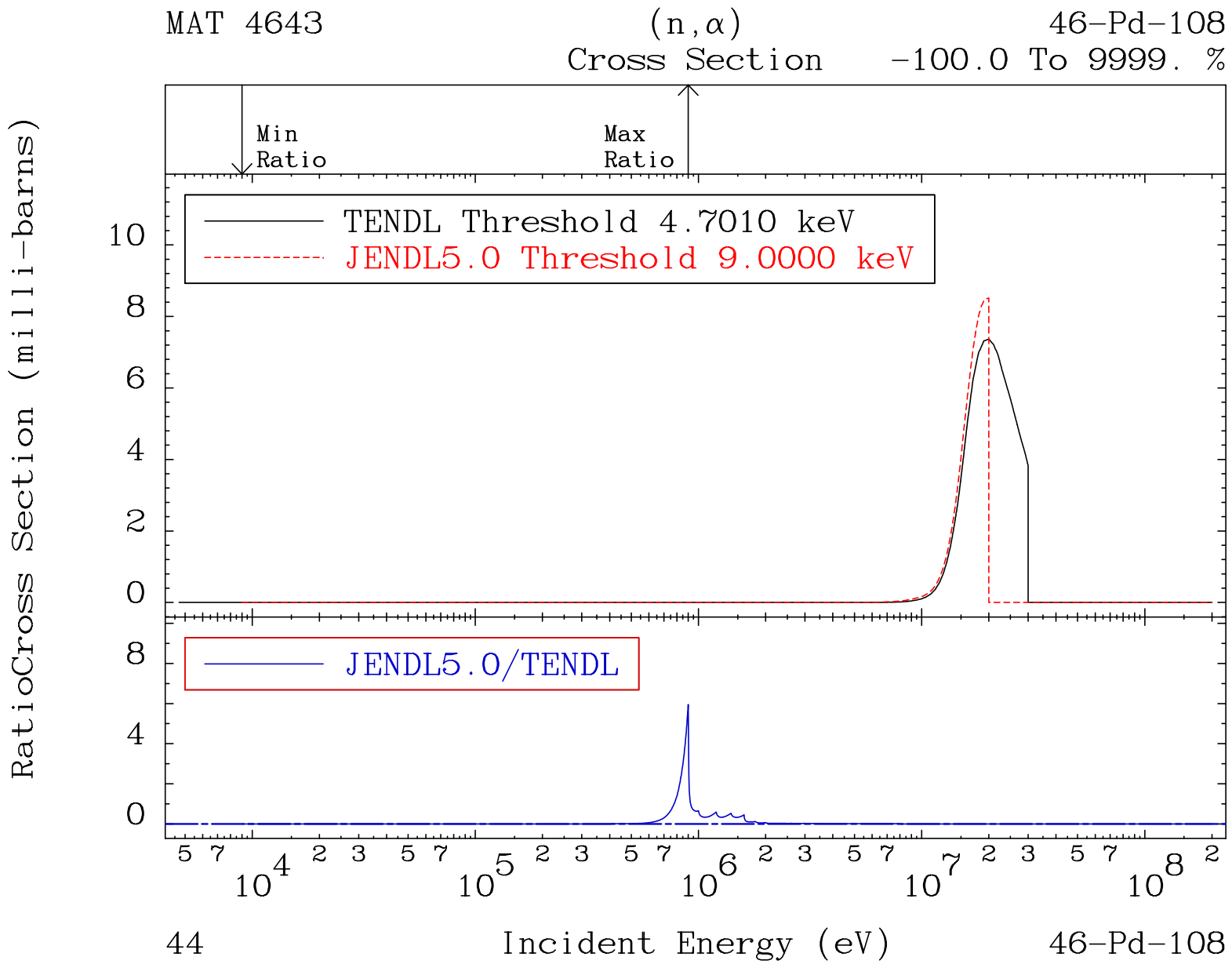

MAT 4643
Dpa total (eV-barns)
46-Pd-108
Cross Section
-93.90 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
39
46-Pd-108

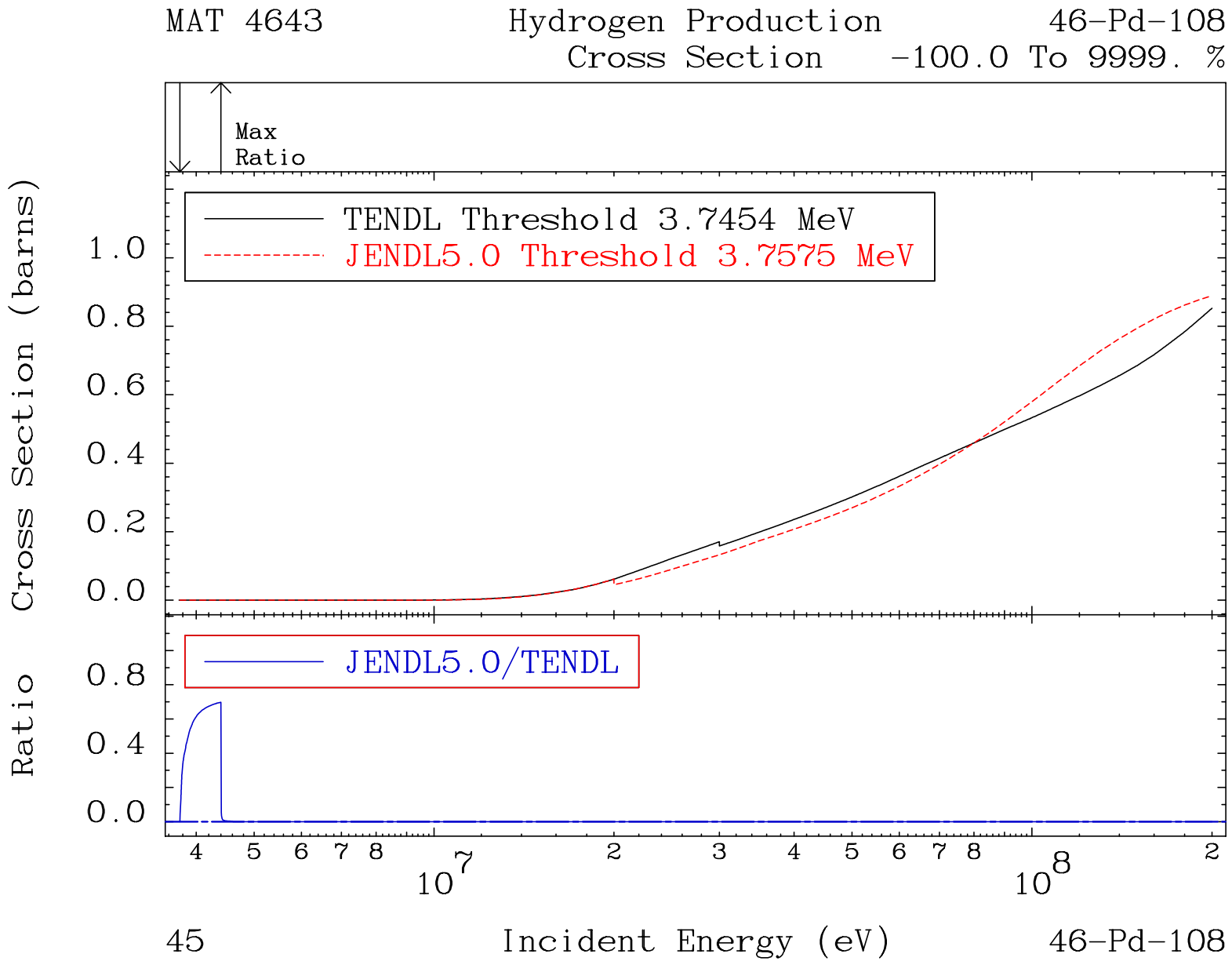

MAT 4643
Dpa elastic (mt2)
Cross Section
46-Pd-108
-95.60 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 674.26 eV
CENDL3.2 Threshold 679.68 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
46-Pd-108

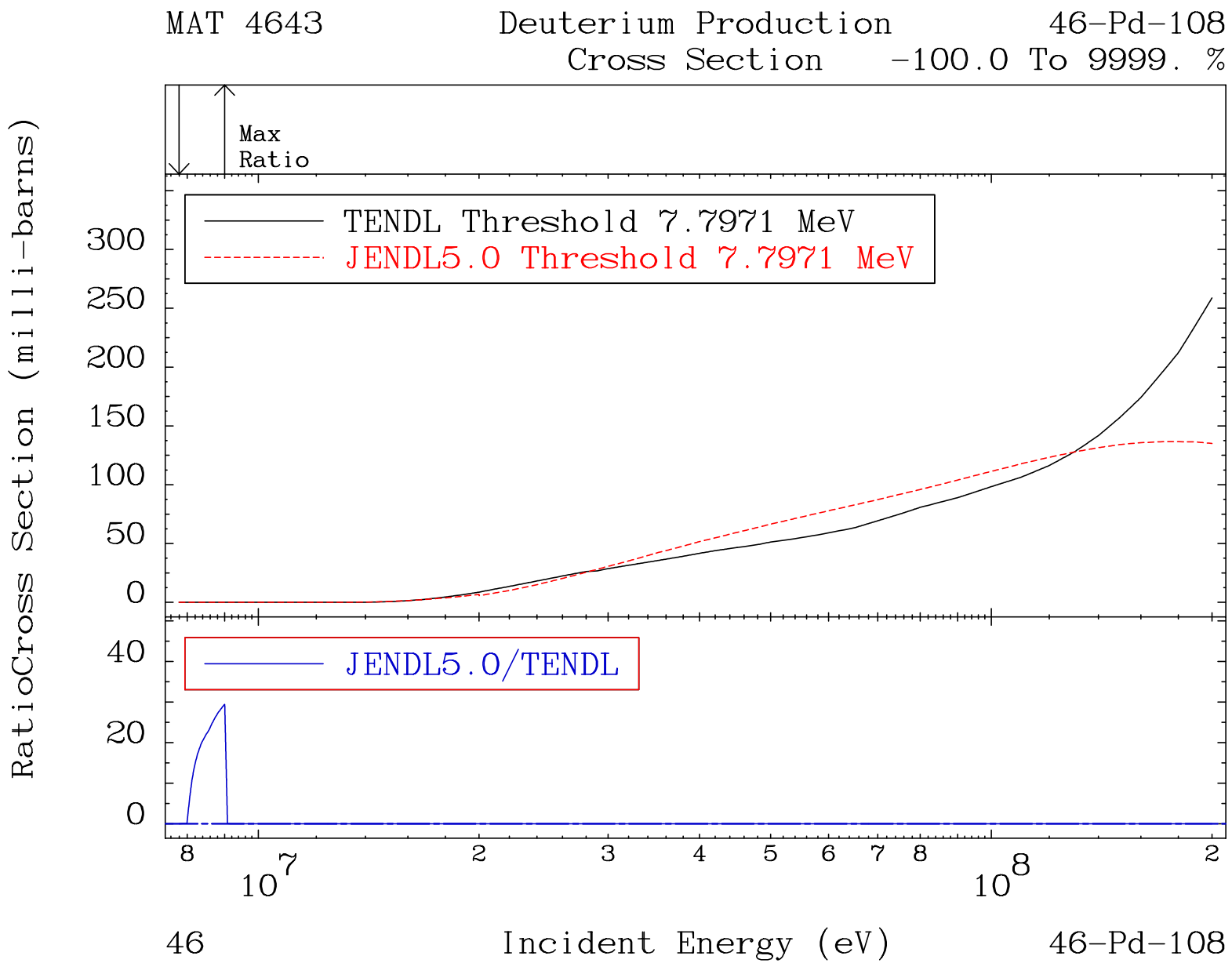

MAT 4643
Dpa inelastic (mt51-91)
46-Pd-108
Cross Section -100.0 To 65.93 %
Min Ratio
Max Ratio
TENDL Threshold 437.99 keV
CENDL3.2 Threshold 437.99 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
46-Pd-108

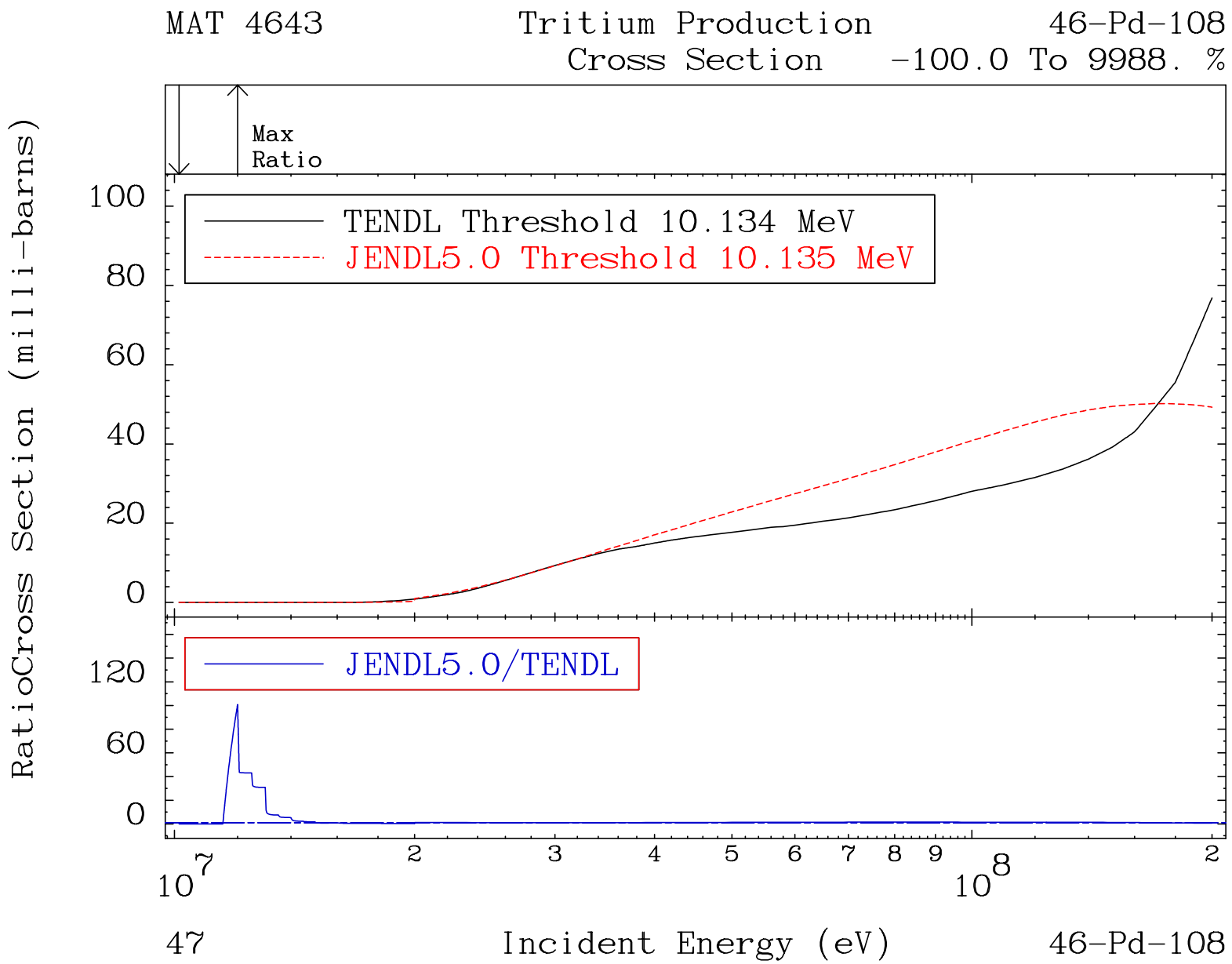

MAT 4643 Dpa disappearance (mt102 -120) 46-Pd-108
Cross Section -99.64 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
42
46-Pd-108

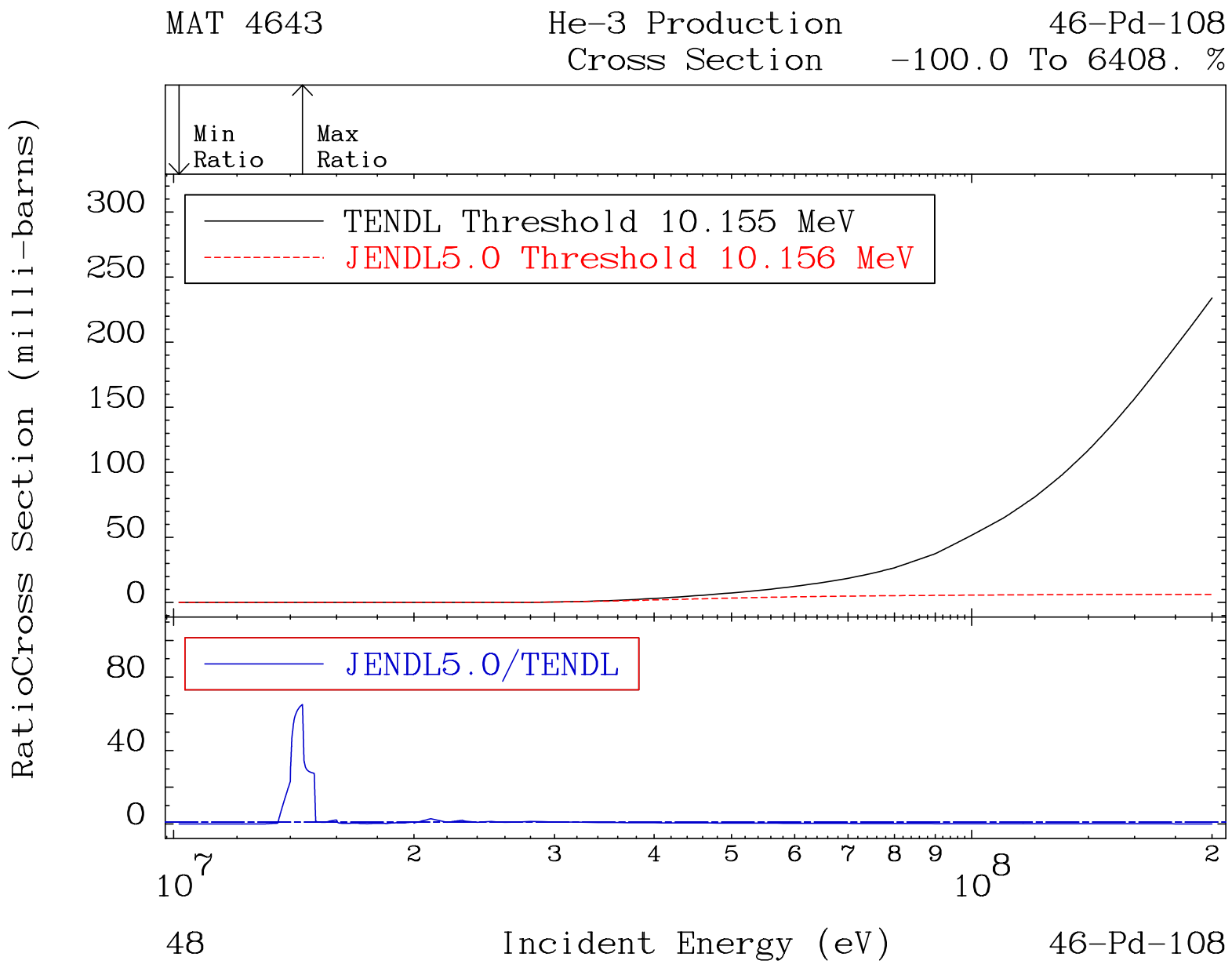

MAT 4643
(n,He-3)
Cross Section
46-Pd-108
-100.0 To 6408. %
Min Ratio
Max Ratio
TENDL Threshold 10.155 MeV
JENDL5.0 Threshold 10.156 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
46-Pd-108

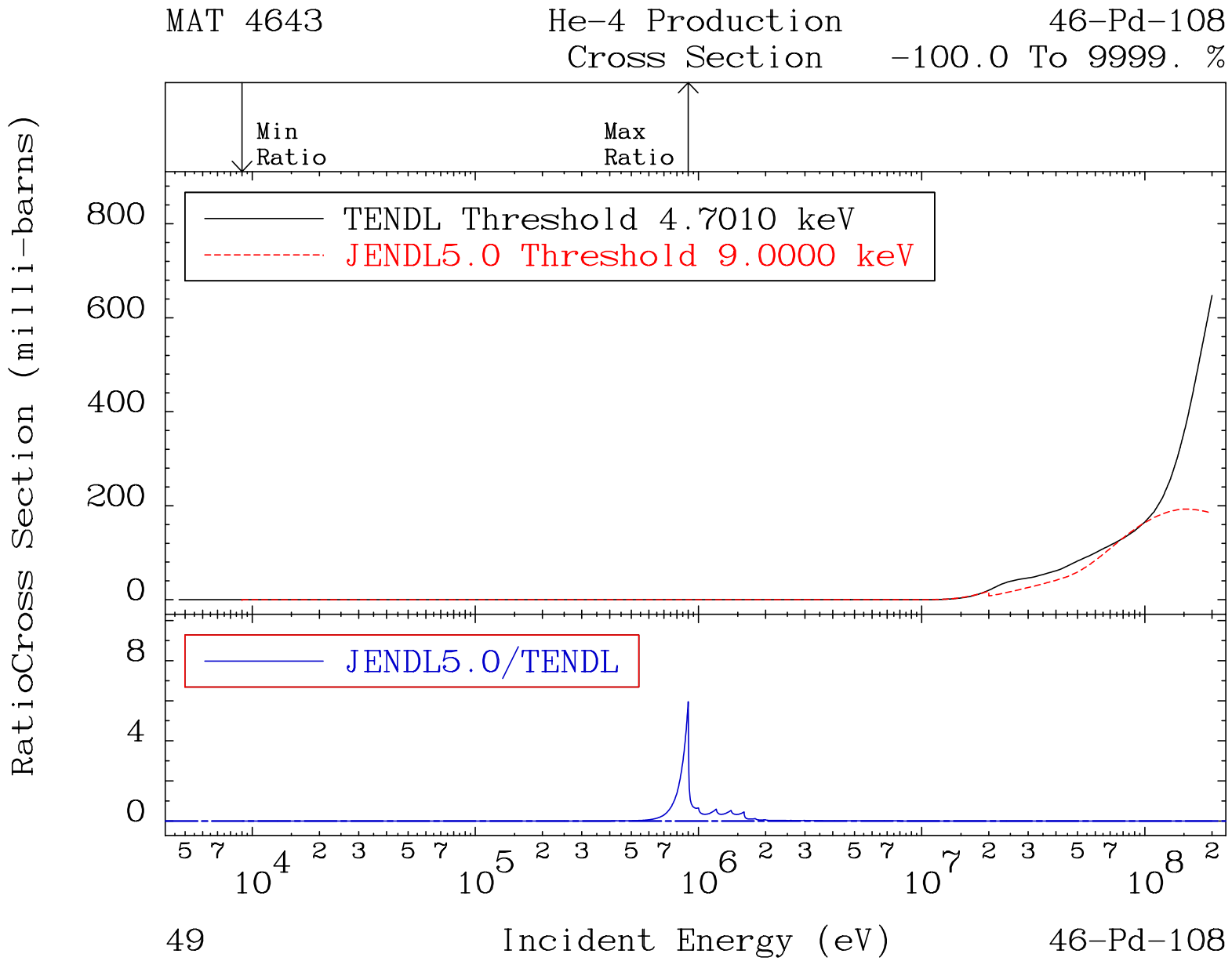

MAT 4643
(n,α)
46-Pd-108
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7010 keV
JENDL5.0 Threshold 9.0000 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
44
46-Pd-108

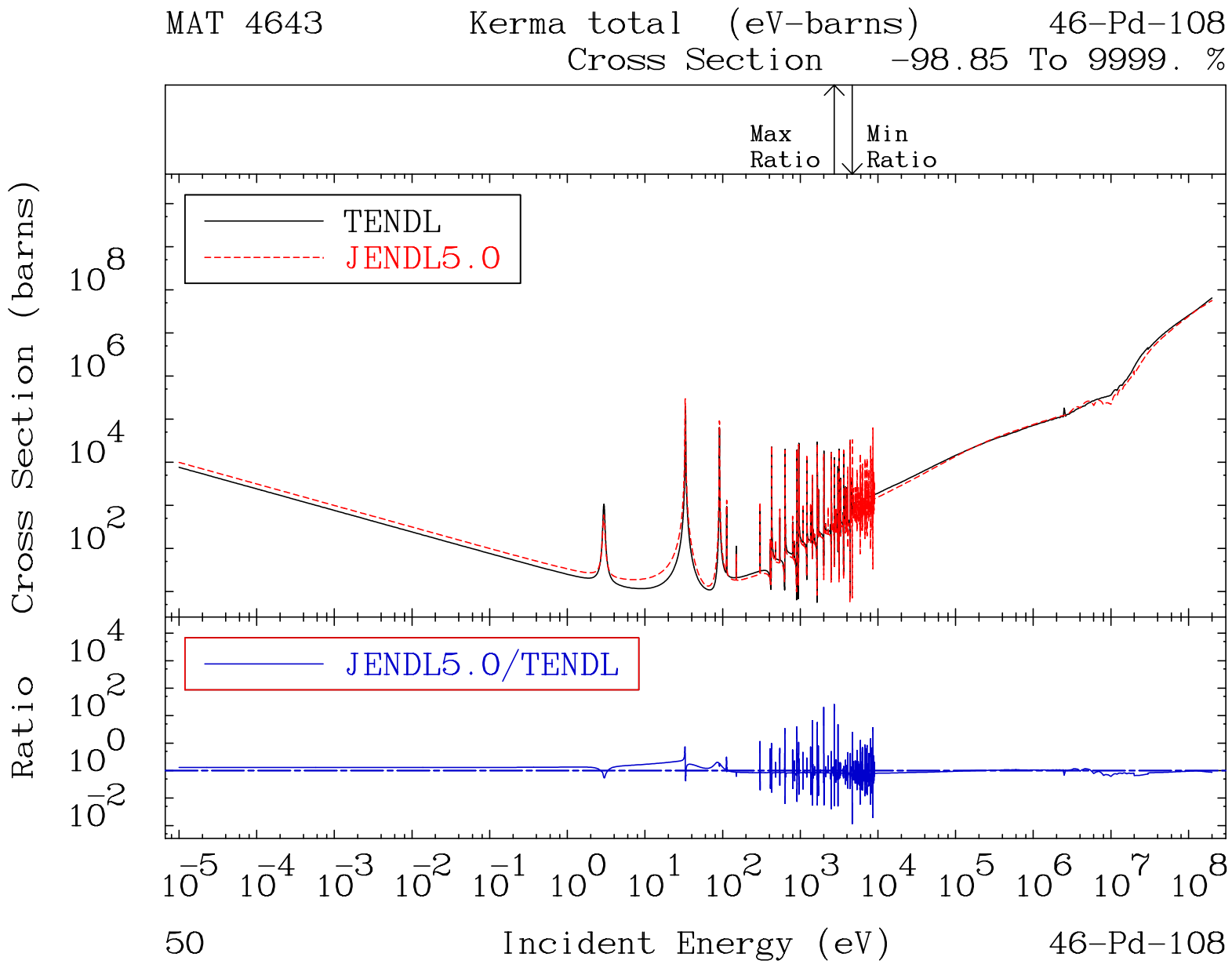

MAT 4643
Hydrogen Production
46-Pd-108
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.7454 MeV
JENDL5.0 Threshold 3.7575 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
45
46-Pd-108

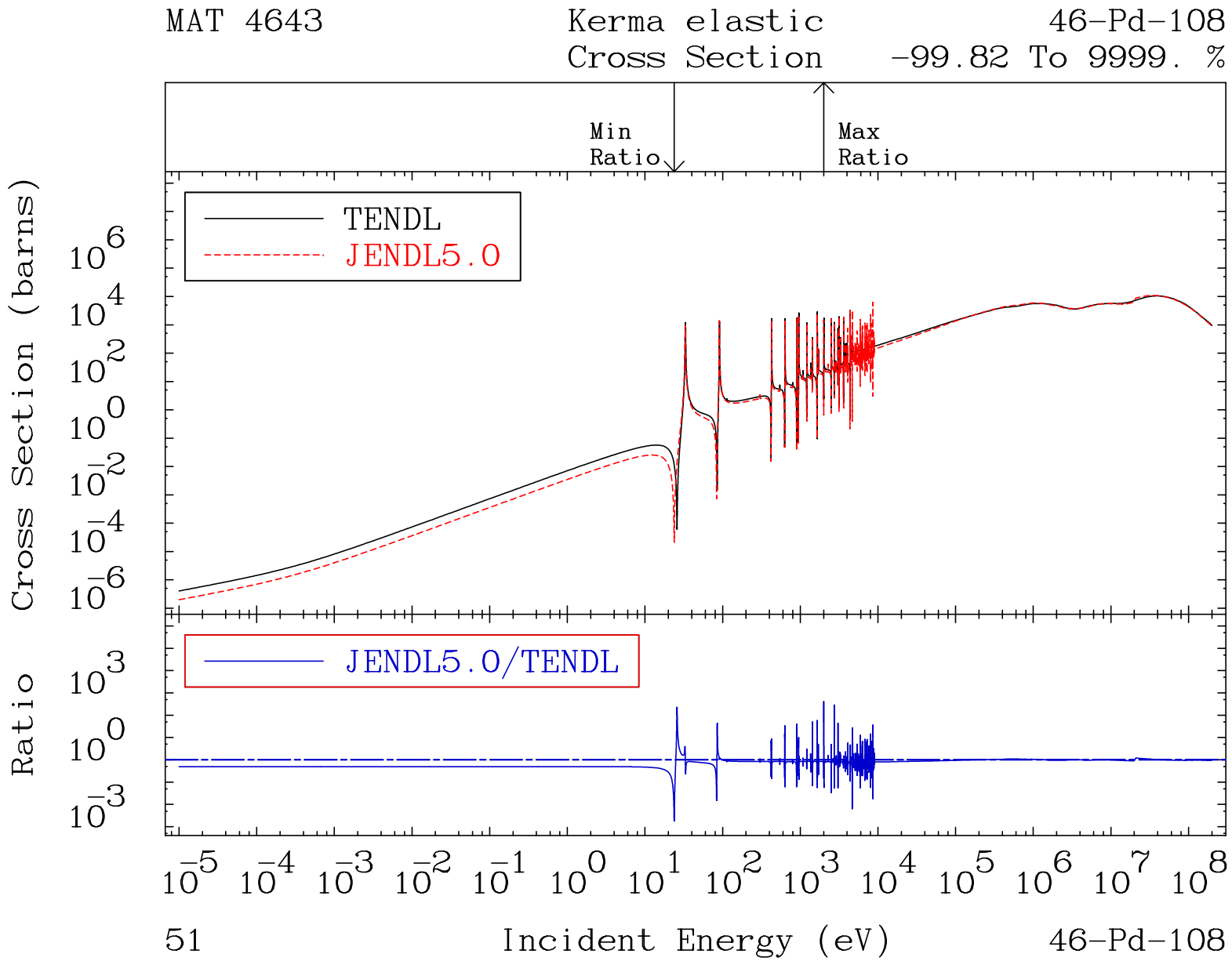

MAT 4643
Deuterium Production
46-Pd-108
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.7971 MeV
JENDL5.0 Threshold 7.7971 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
40
20
0
8
2
3
4
5
6
7
8
2
10^7
10^8
46
Incident Energy (eV)
46-Pd-108

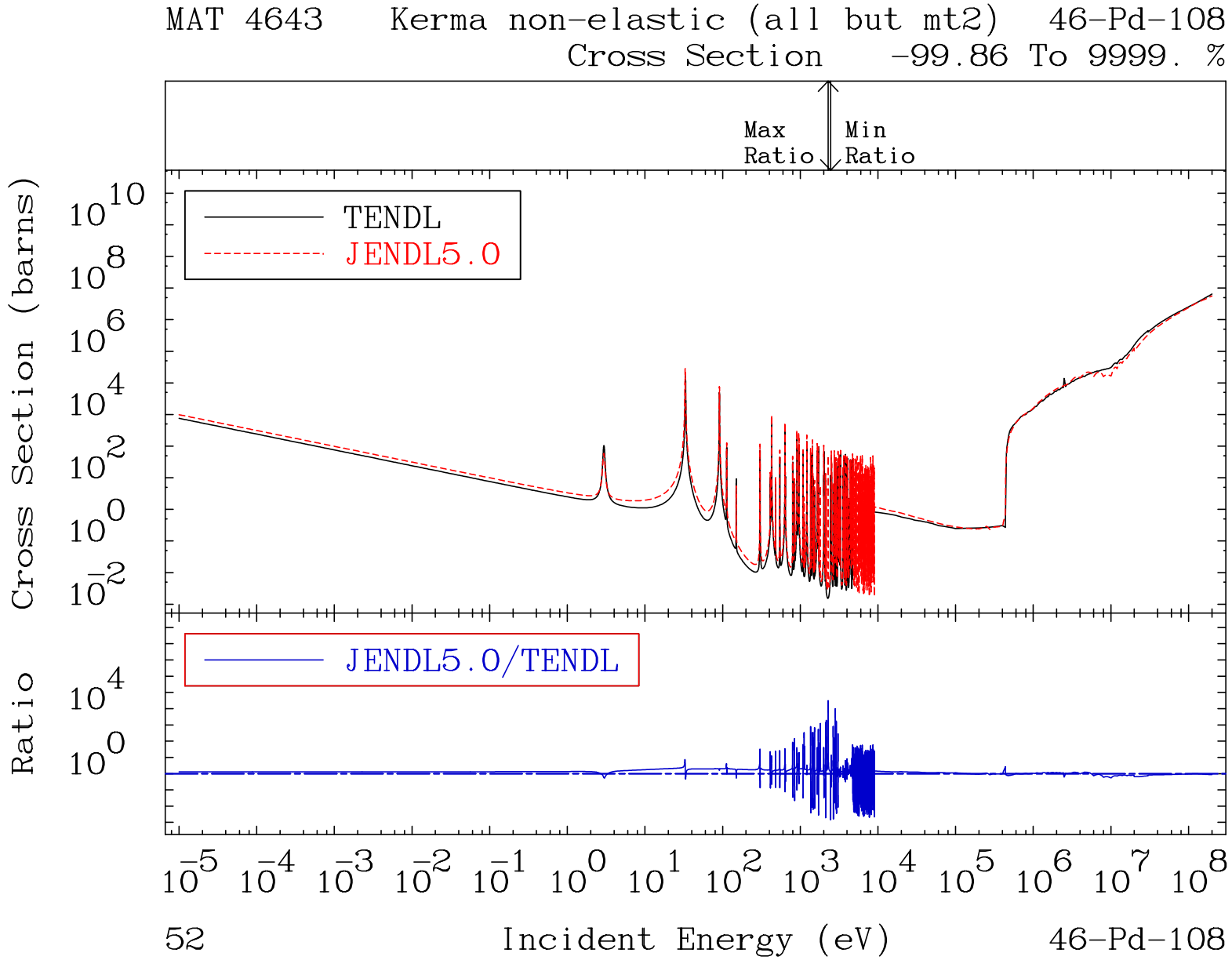

MAT 4643
Tritium Production
46-Pd-108
Cross Section
-100.0 To 9988. %
Max
Ratio
TENDL Threshold 10.134 MeV
JENDL5.0 Threshold 10.135 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
120
60
0
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
46-Pd-108

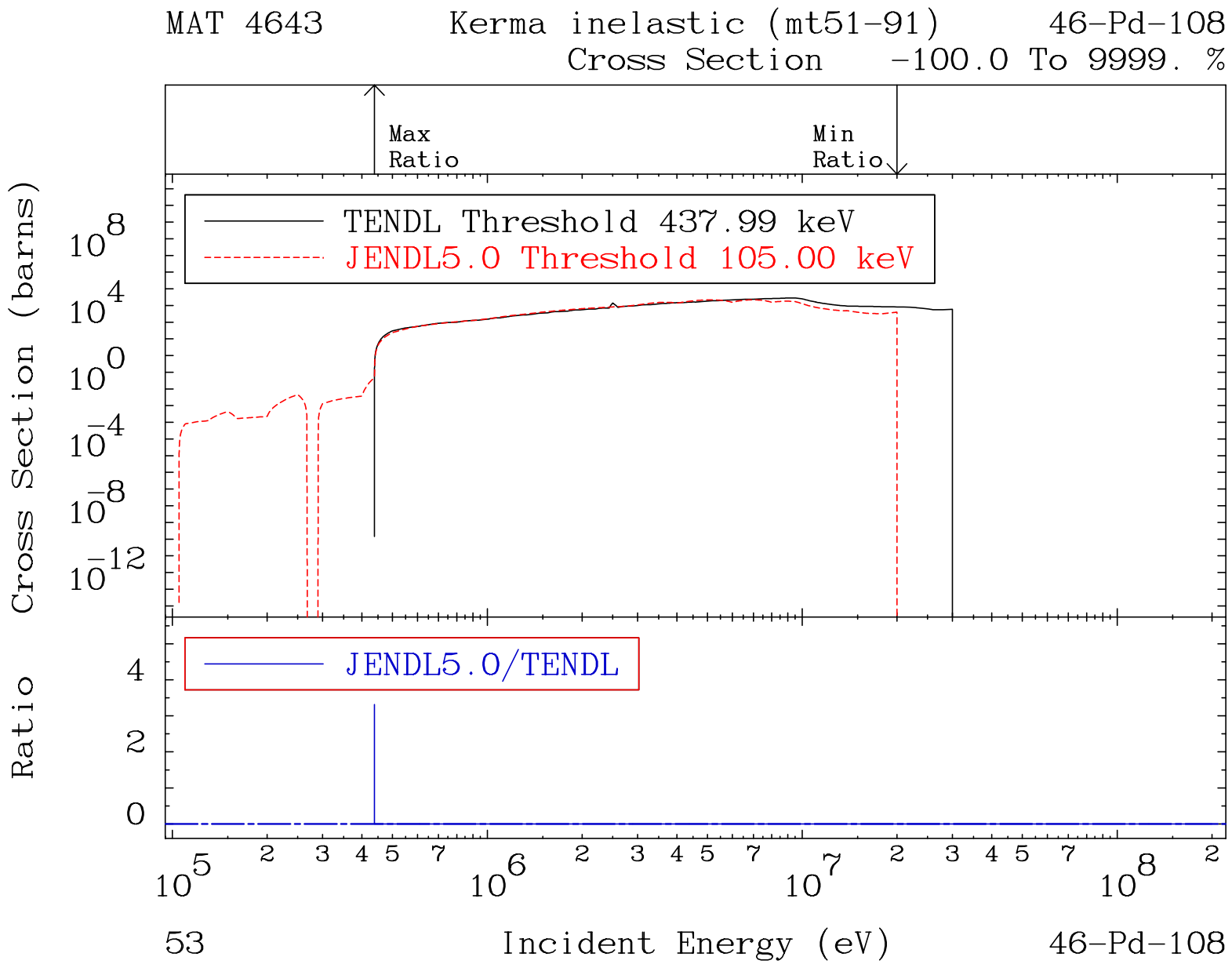

MAT 4643
He-3 Production
Cross Section
46-Pd-108
-100.0 To 6408. %
Min Ratio
Max Ratio
TENDL Threshold 10.155 MeV
JENDL5.0 Threshold 10.156 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
46-Pd-108

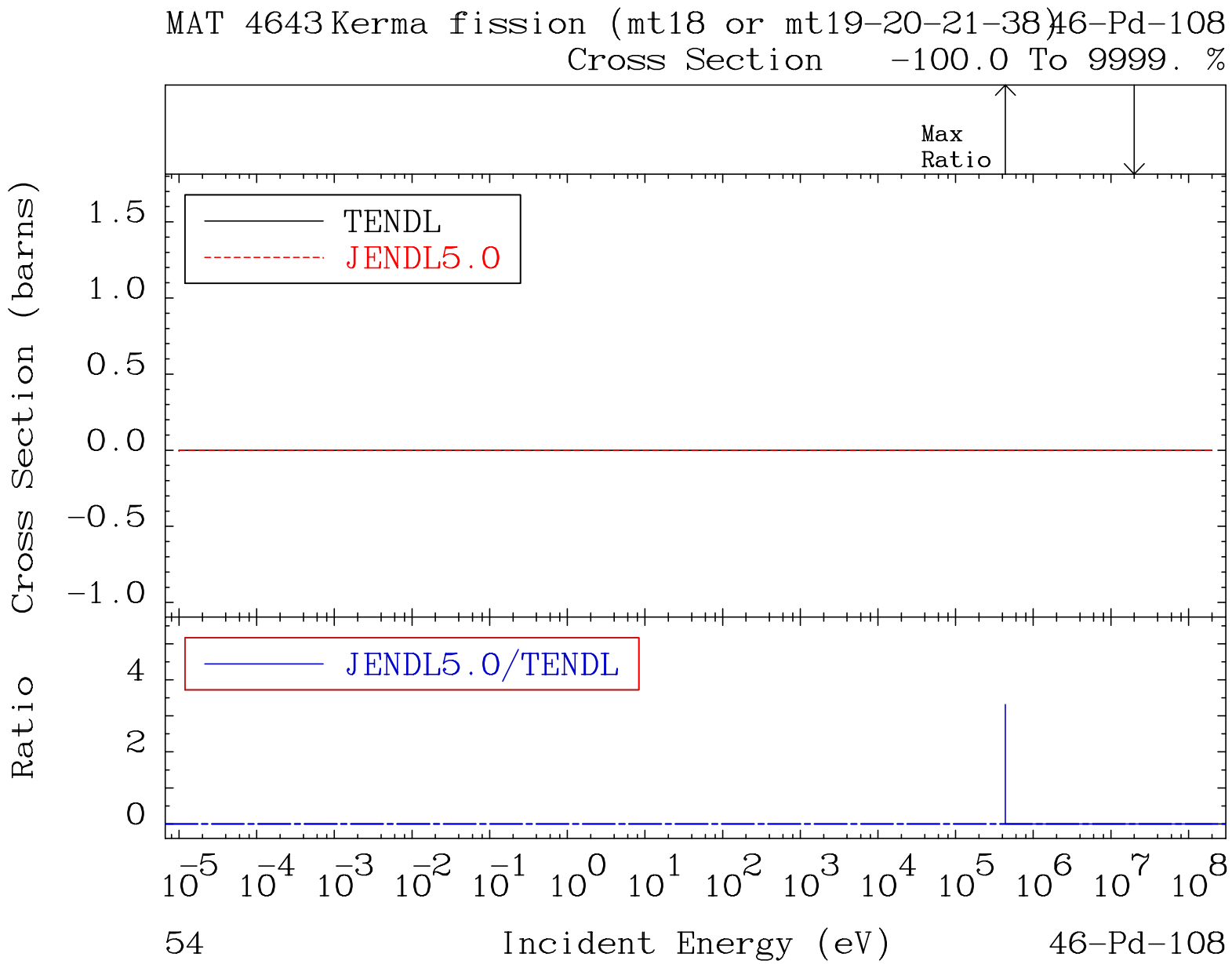

MAT 4643
He-4 Production
Cross Section
46-Pd-108
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.7010 keV
JENDL5.0 Threshold 9.0000 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
8
4
0
5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
49
Incident Energy (eV)
46-Pd-108

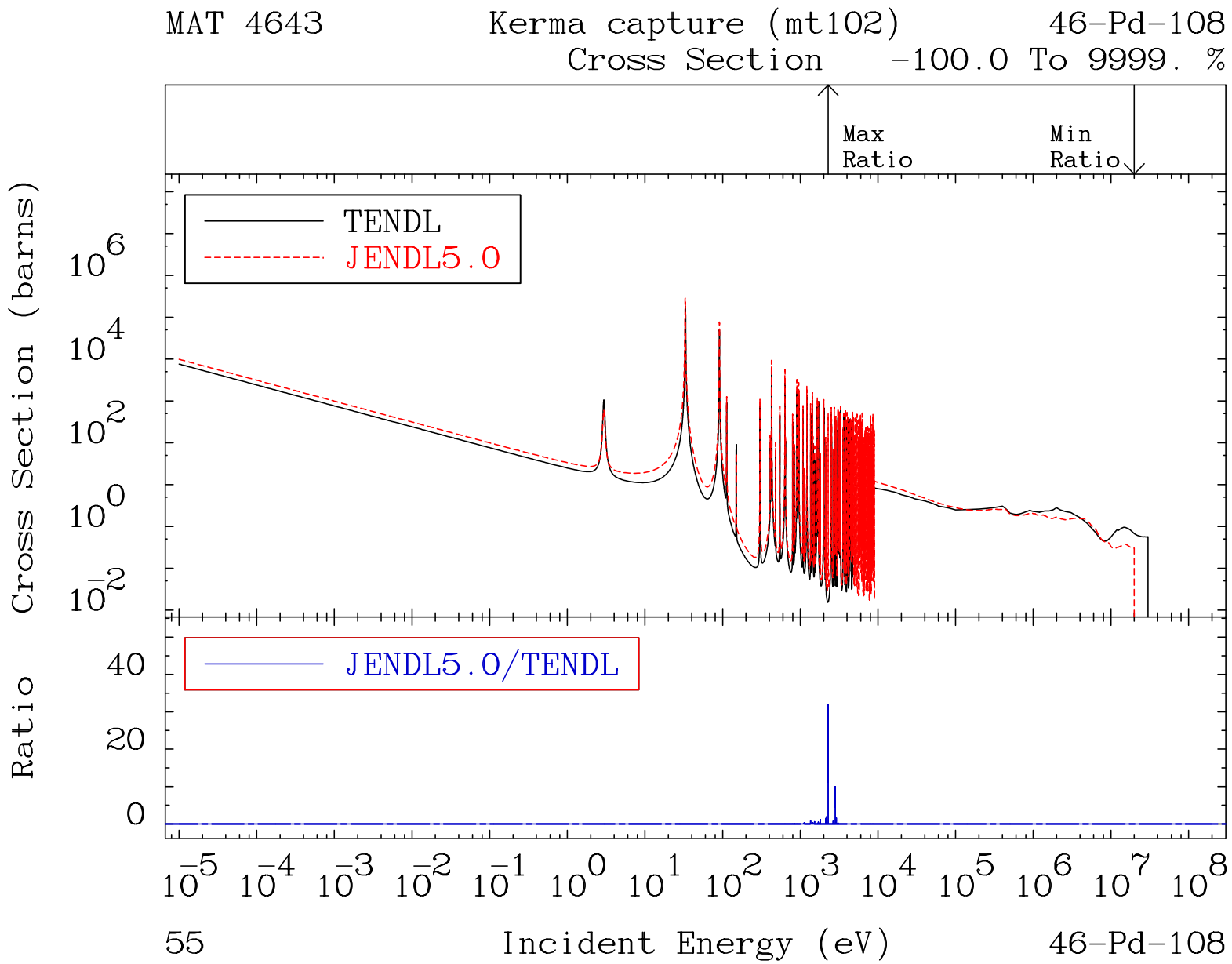

MAT 4643
Kerma total (eV-barns)
46-Pd-108
Cross Section -98.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
46-Pd-108

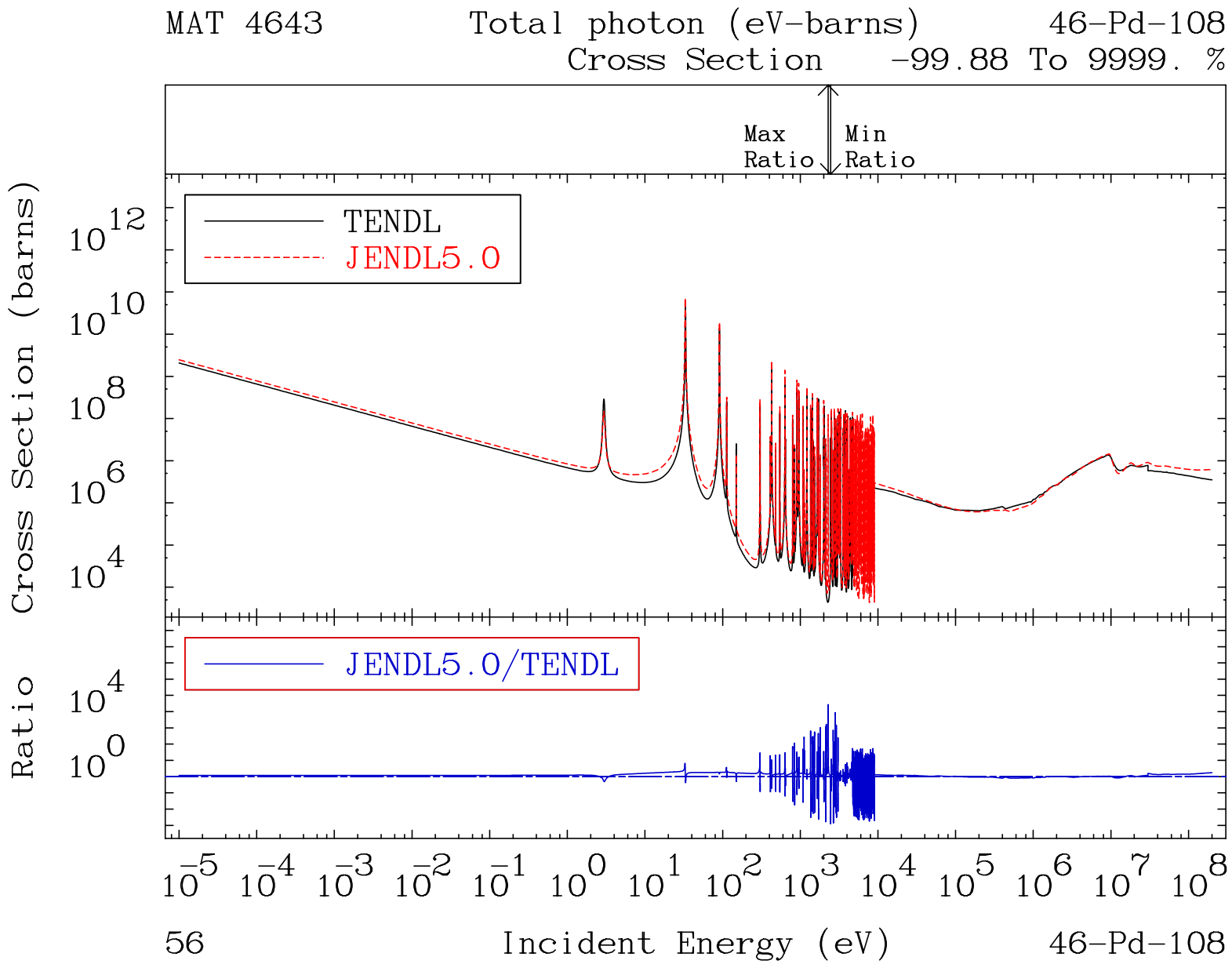

MAT 4643
Kerma elastic
Cross Section
46-Pd-108
-99.82 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
46-Pd-108

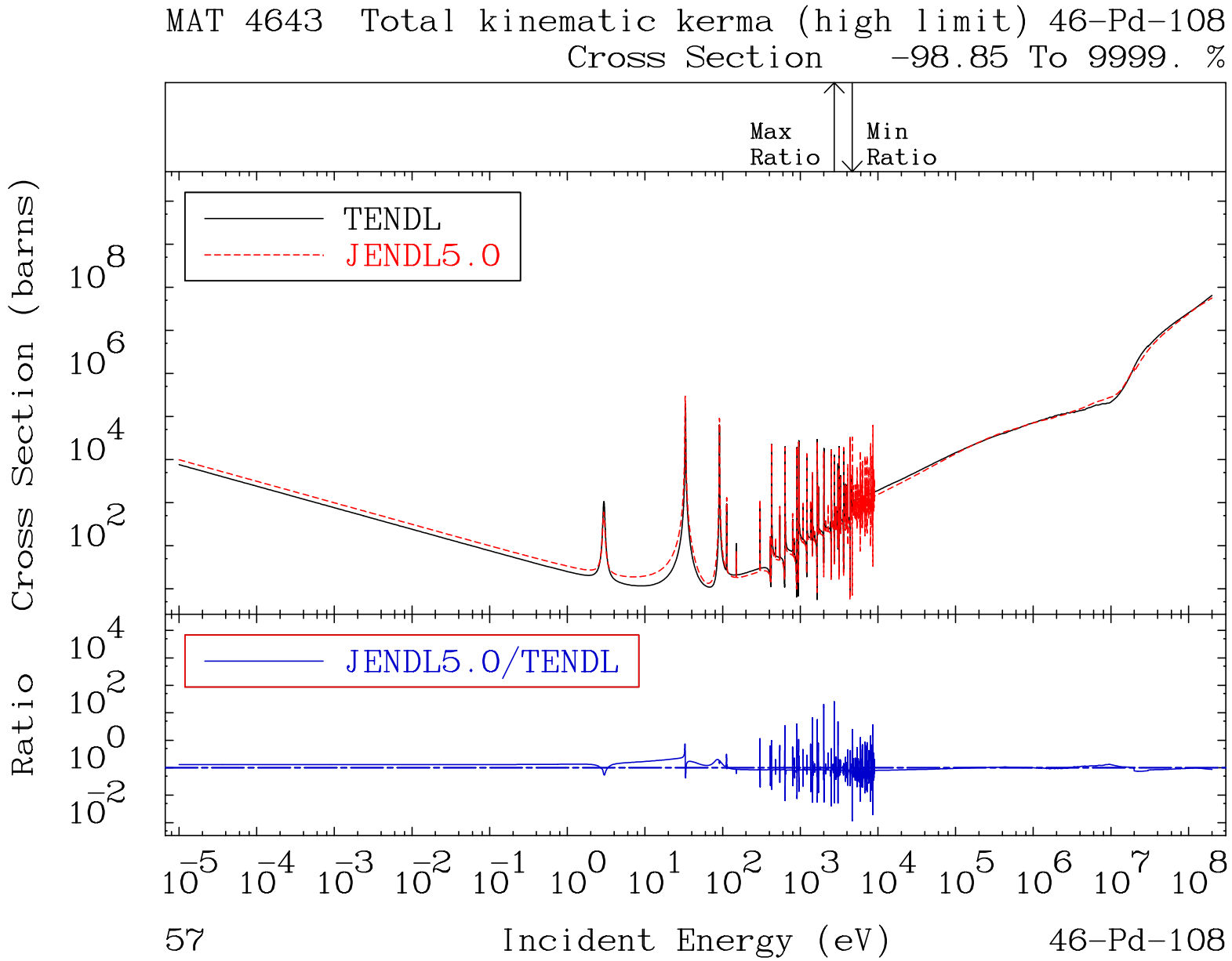

MAT 4643 Kerma non-elastic (all but mt2) 46-Pd-108
Cross Section -99.86 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
46-Pd-108

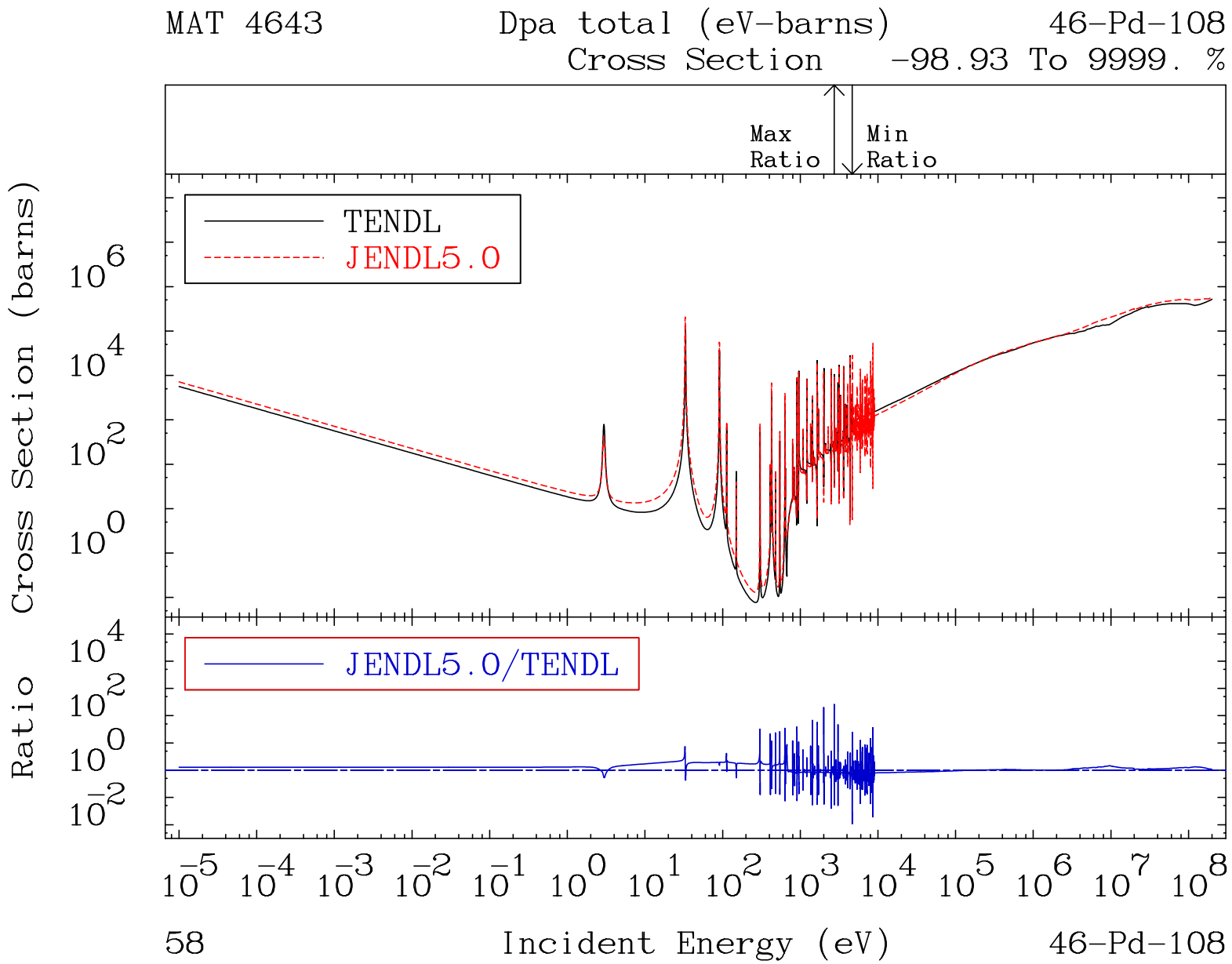

MAT 4643
Kerma inelastic (mt51-91)
46-Pd-108
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 437.99 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
46-Pd-108

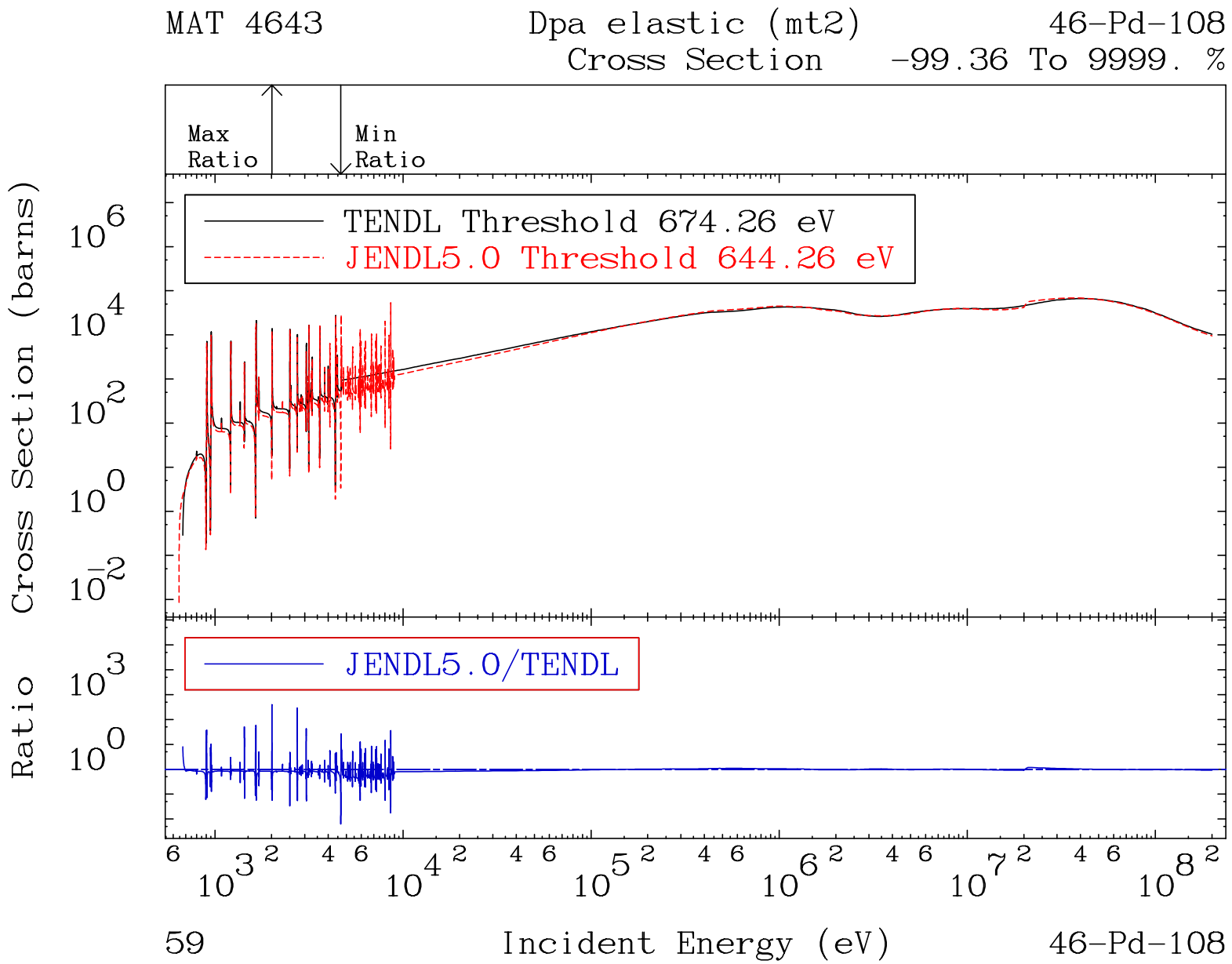

MAT 4643 Kerma fission (mt18 or mt19-20-21-38) 46-Pd-108
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
54
Incident Energy (eV)
46-Pd-108

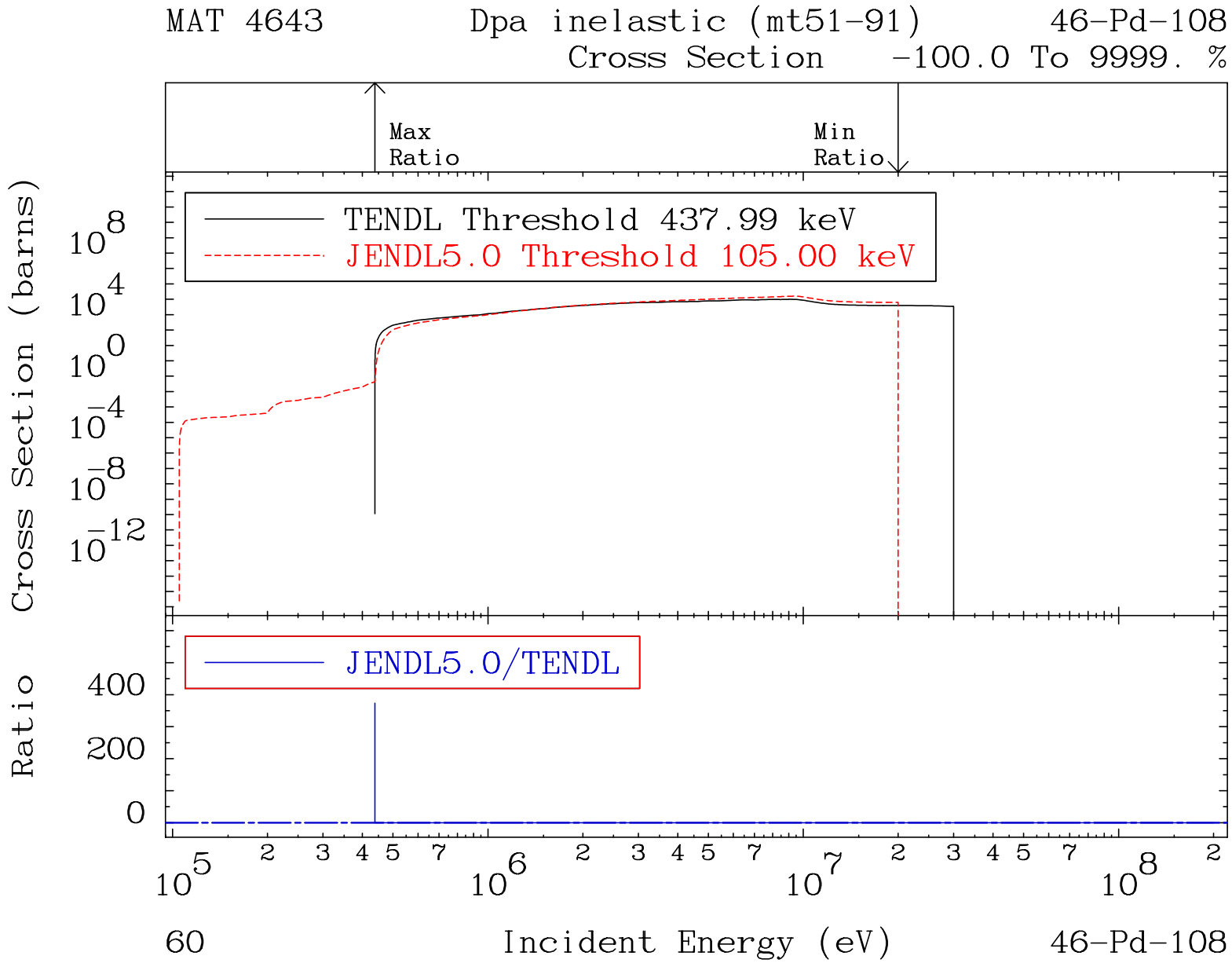

MAT 4643
Kerma capture (mt102)
46-Pd-108
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
46-Pd-108

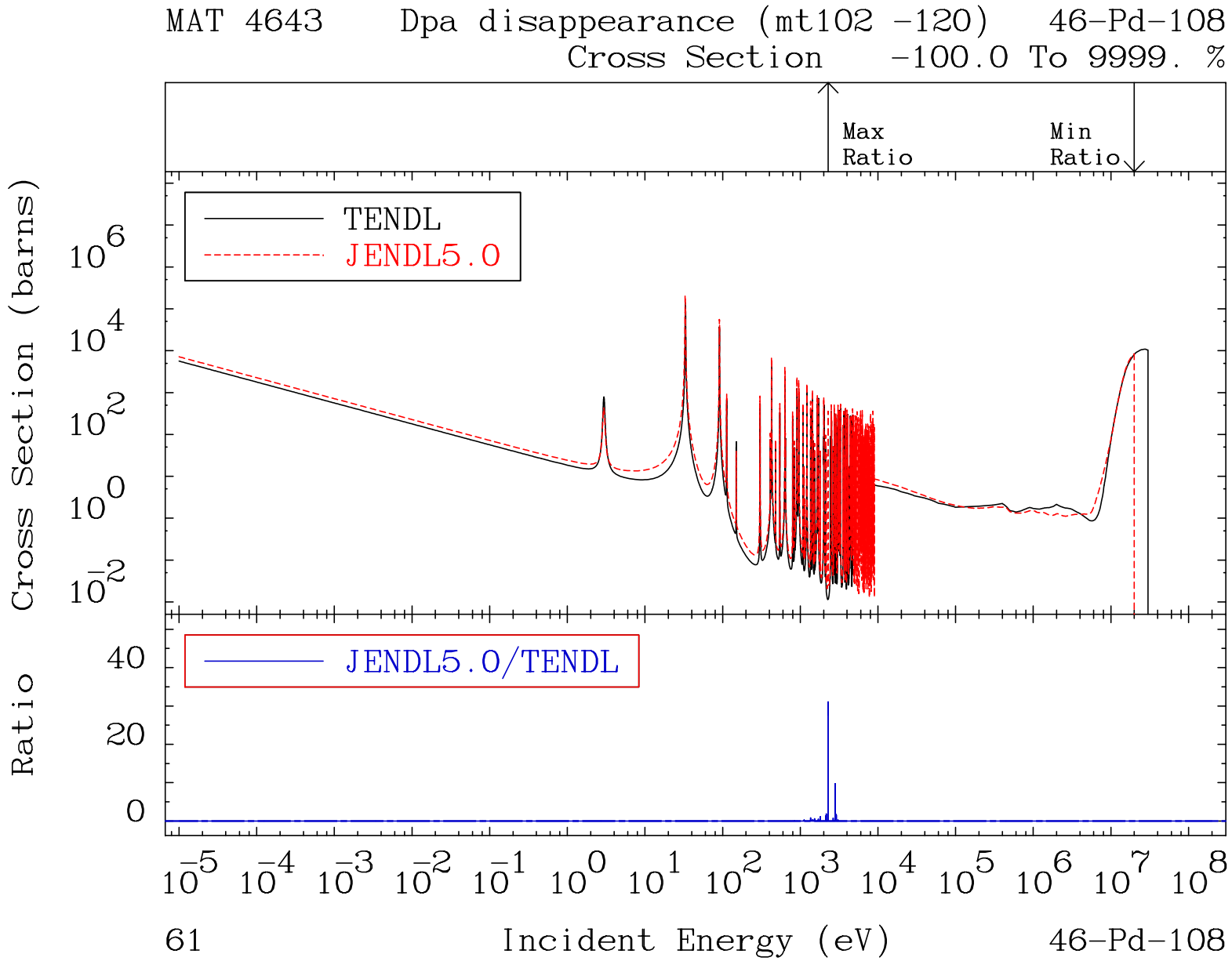

MAT 4643
Total photon (eV-barns)
46-Pd-108
Cross Section
-99.88 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
46-Pd-108

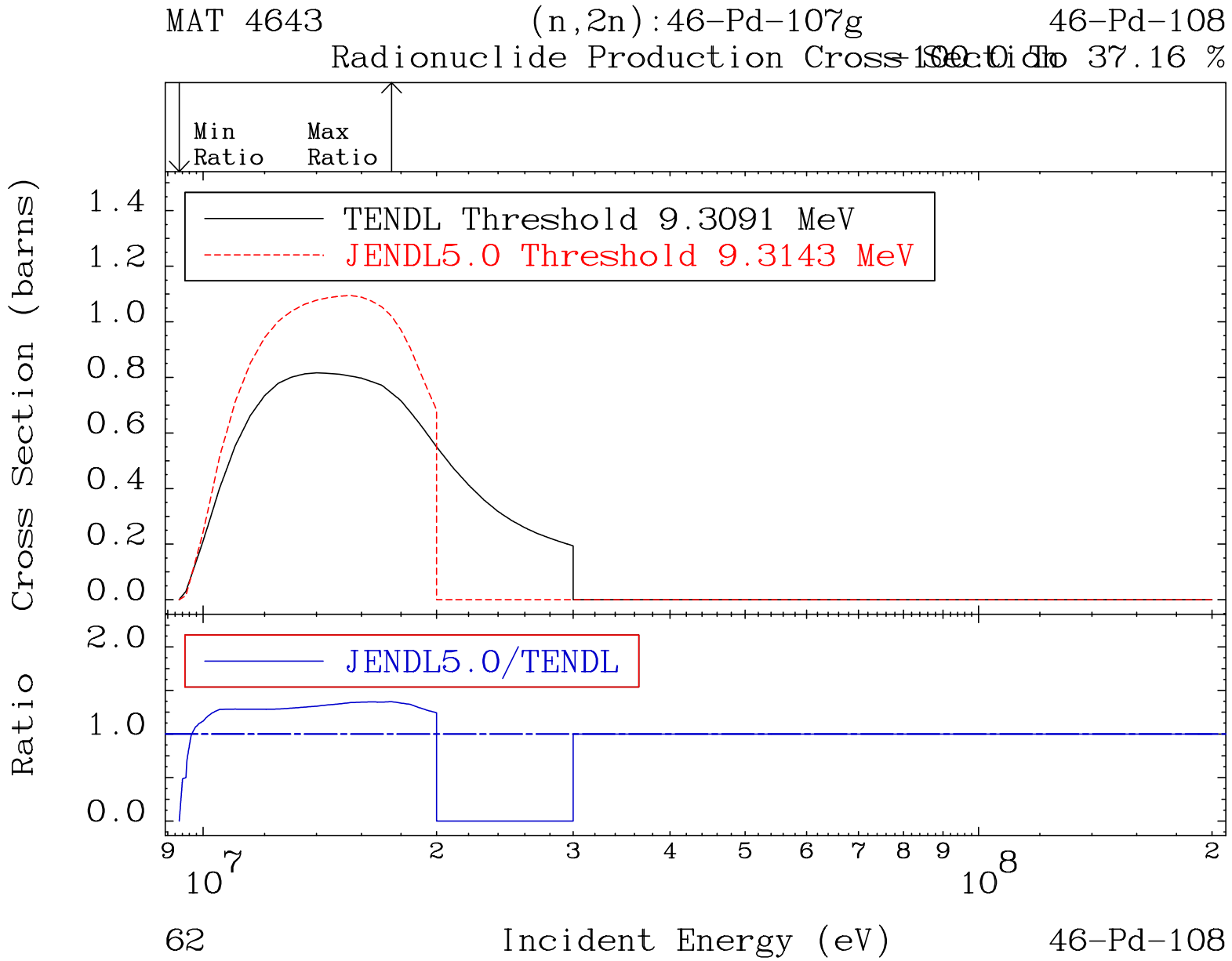

MAT 4643 Total kinematic kerma (high limit) 46-Pd-108
Cross Section -98.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
57
46-Pd-108

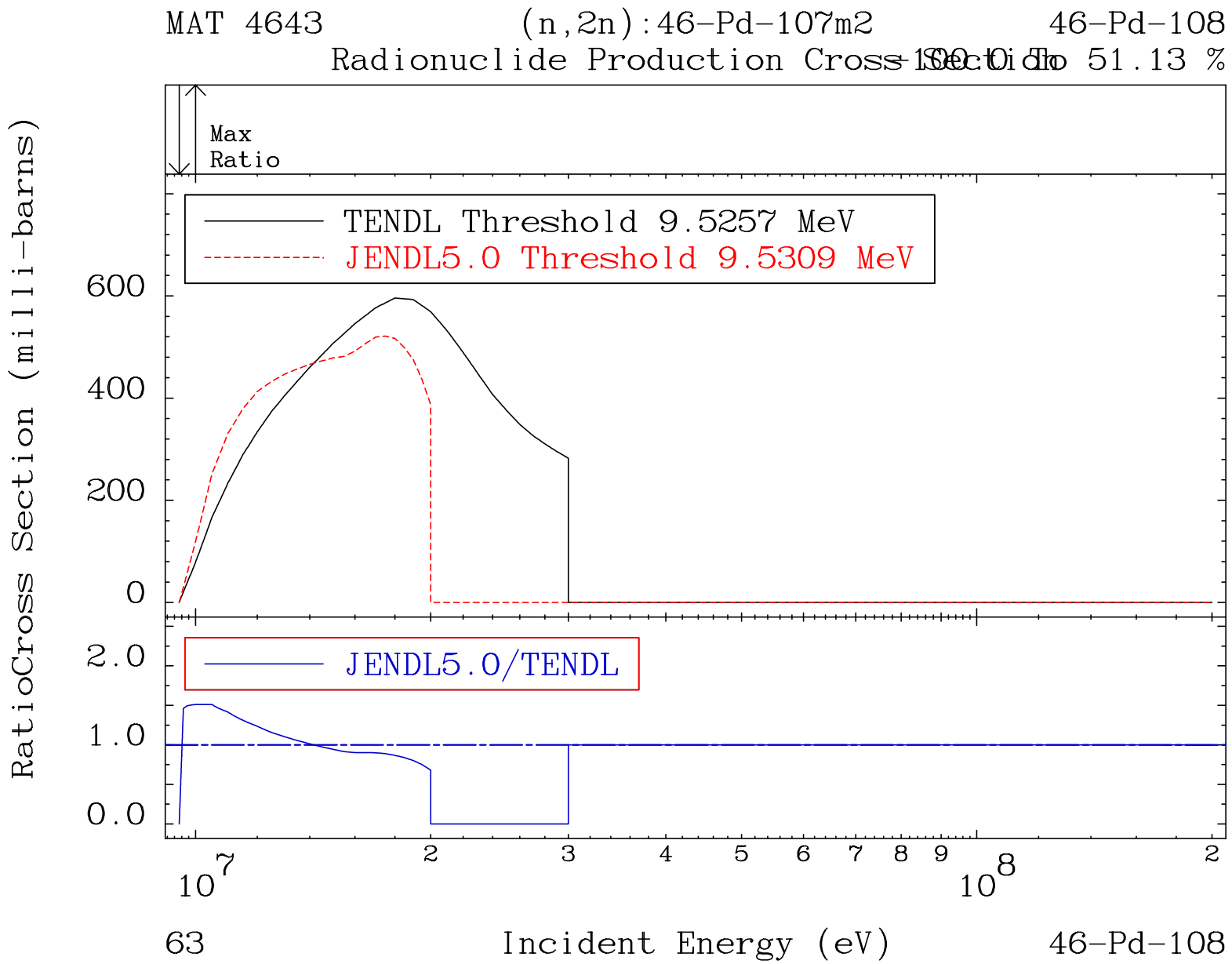

MAT 4643
Dpa total (eV-barns)
46-Pd-108
Cross Section
-98.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
46-Pd-108

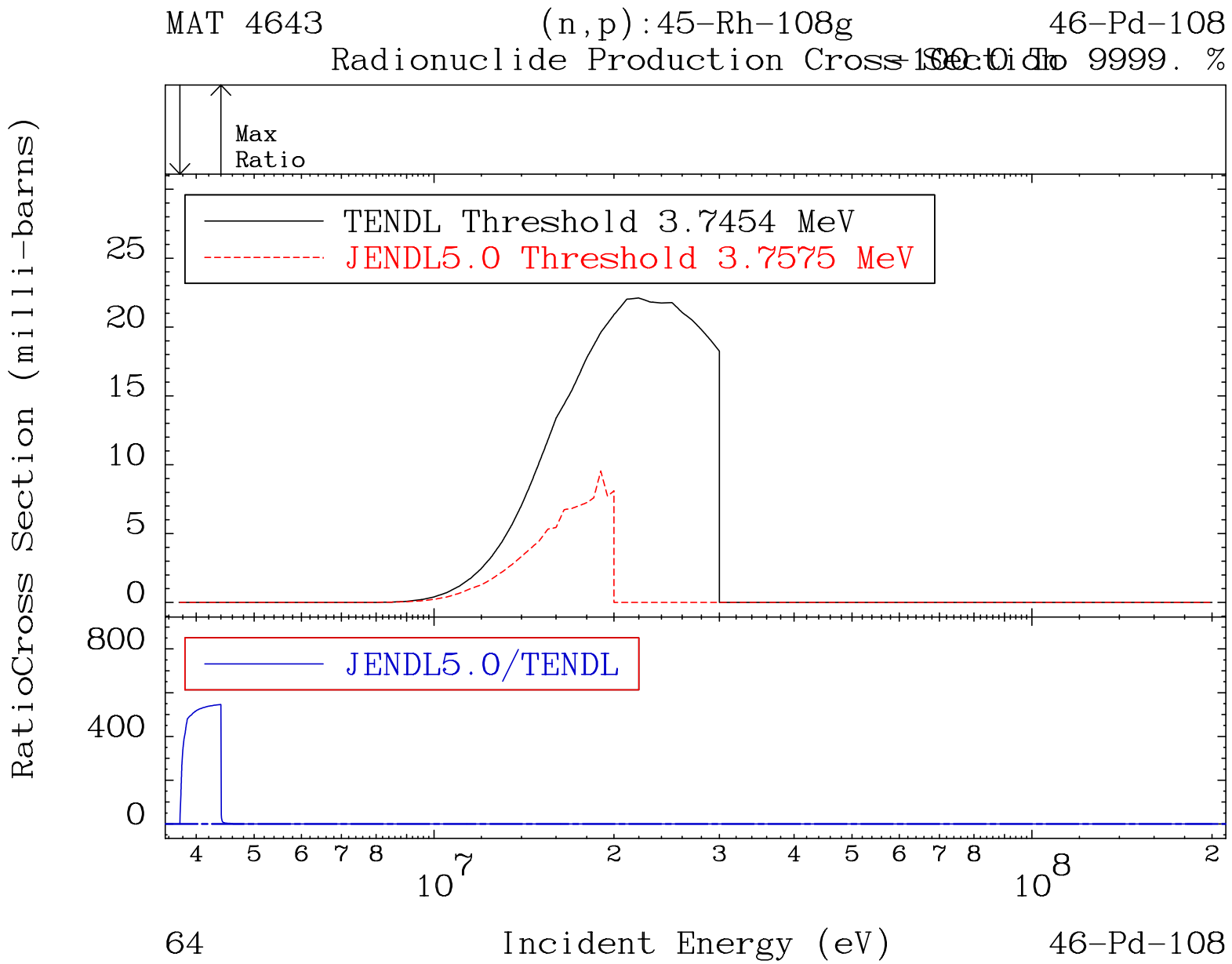

MAT 4643
Dpa elastic (mt2)
Cross Section
46-Pd-108
-99.36 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 674.26 eV
JENDL5.0 Threshold 644.26 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
46-Pd-108

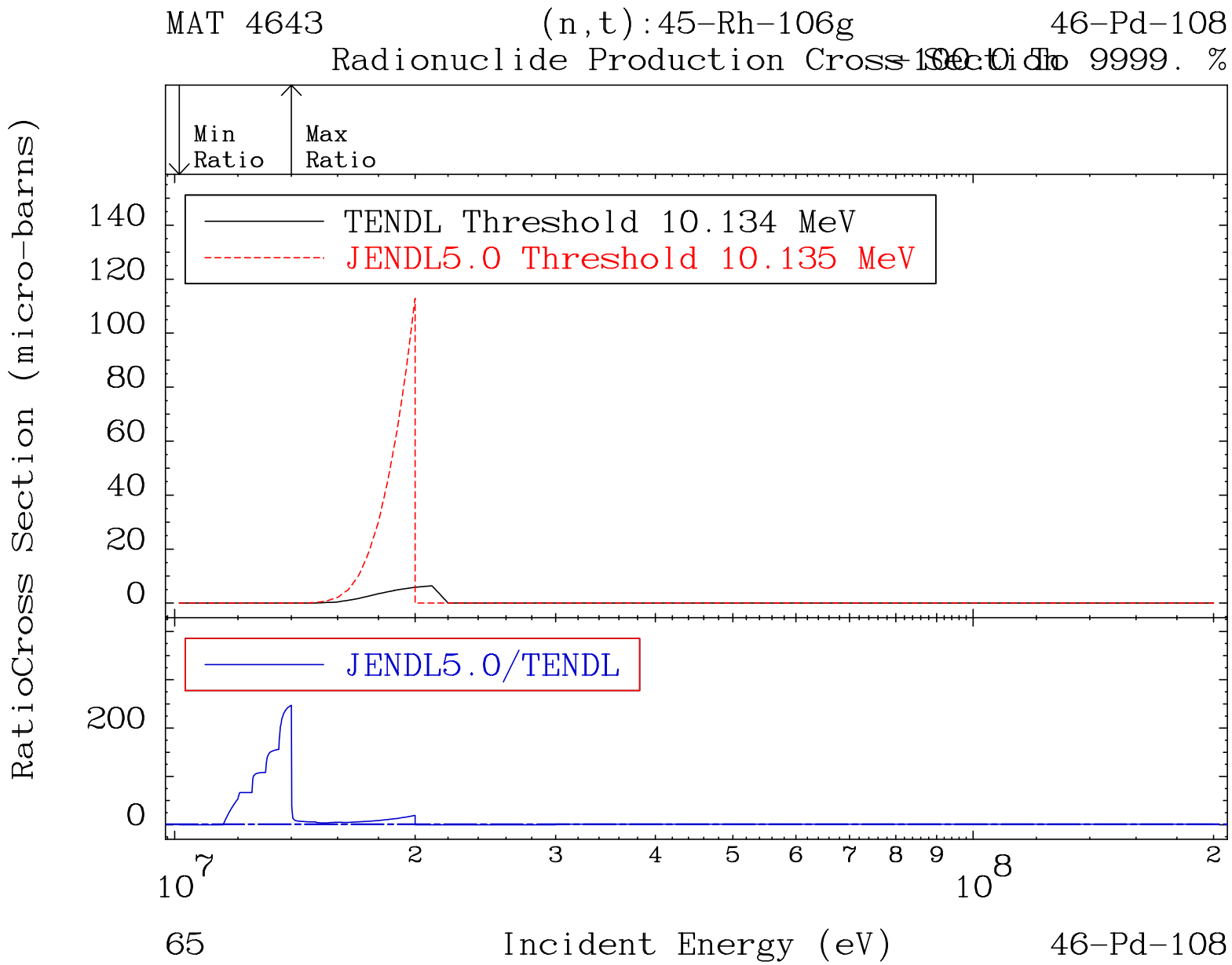

MAT 4643
Dpa inelastic (mt51-91)
46-Pd-108
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 437.99 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
46-Pd-108

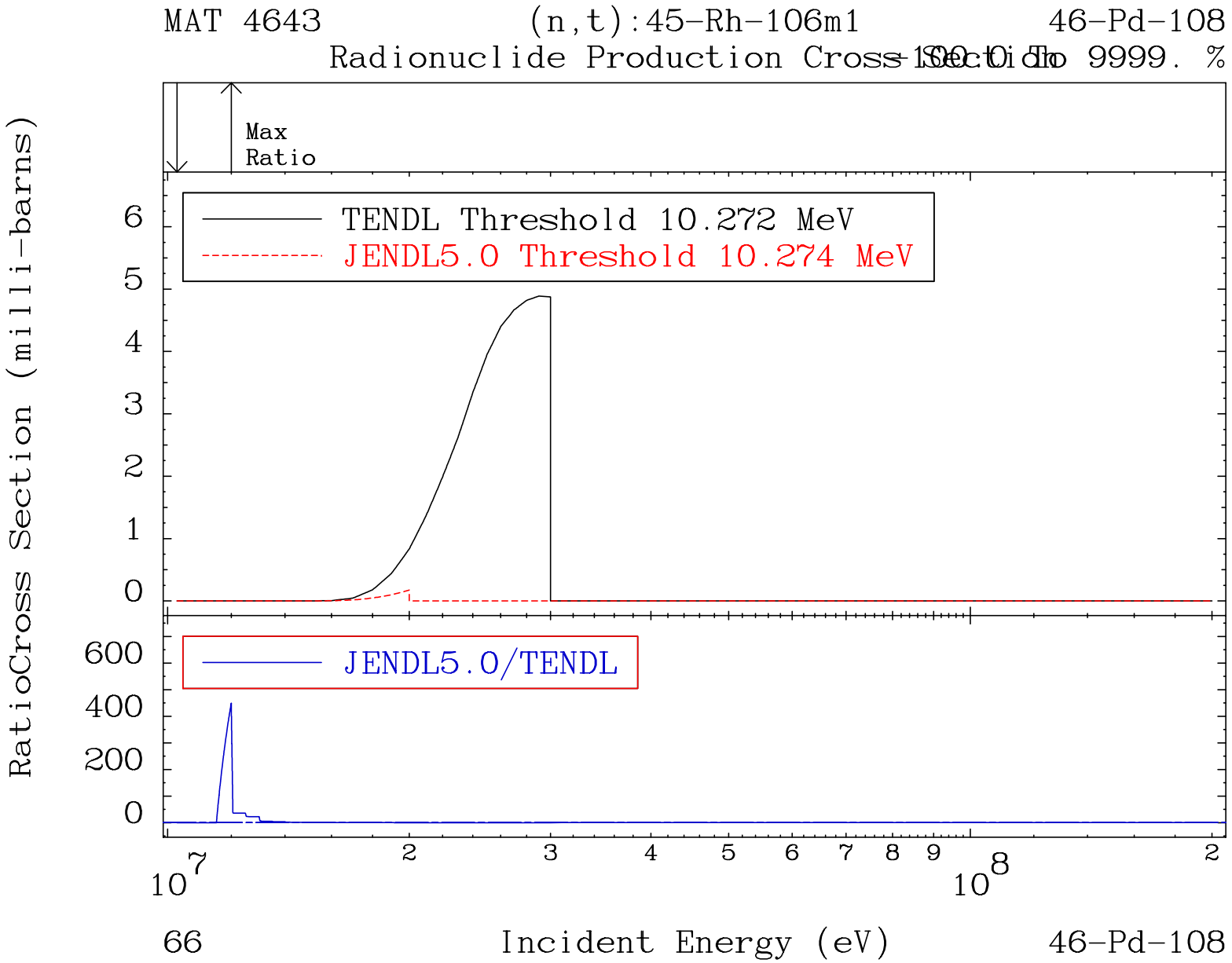

MAT 4643 Dpa disappearance (mt102 -120) 46-Pd-108
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
46-Pd-108


MAT 4643
(n,2n):46-Pd-107g
46-Pd-108
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 9.3091 MeV
JENDL5.0 Threshold 9.3143 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
46-Pd-108


MAT 4643
(n,2n):46-Pd-107m2
46-Pd-108
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 9.5257 MeV
JENDL5.0 Threshold 9.5309 MeV
600
400
200
0
2.0
1.0
0.0
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
46-Pd-108


MAT 4643
(n,p):45-Rh-108g
46-Pd-108
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 3.7454 MeV
JENDL5.0 Threshold 3.7575 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
800
400
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
64
Incident Energy (eV)
46-Pd-108


MAT 4643
(n,t):45-Rh-106g
46-Pd-108
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 10.134 MeV
JENDL5.0 Threshold 10.135 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
65
46-Pd-108


MAT 4643
(n,t):45-Rh-106m1
46-Pd-108
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 10.272 MeV
JENDL5.0 Threshold 10.274 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
46-Pd-108