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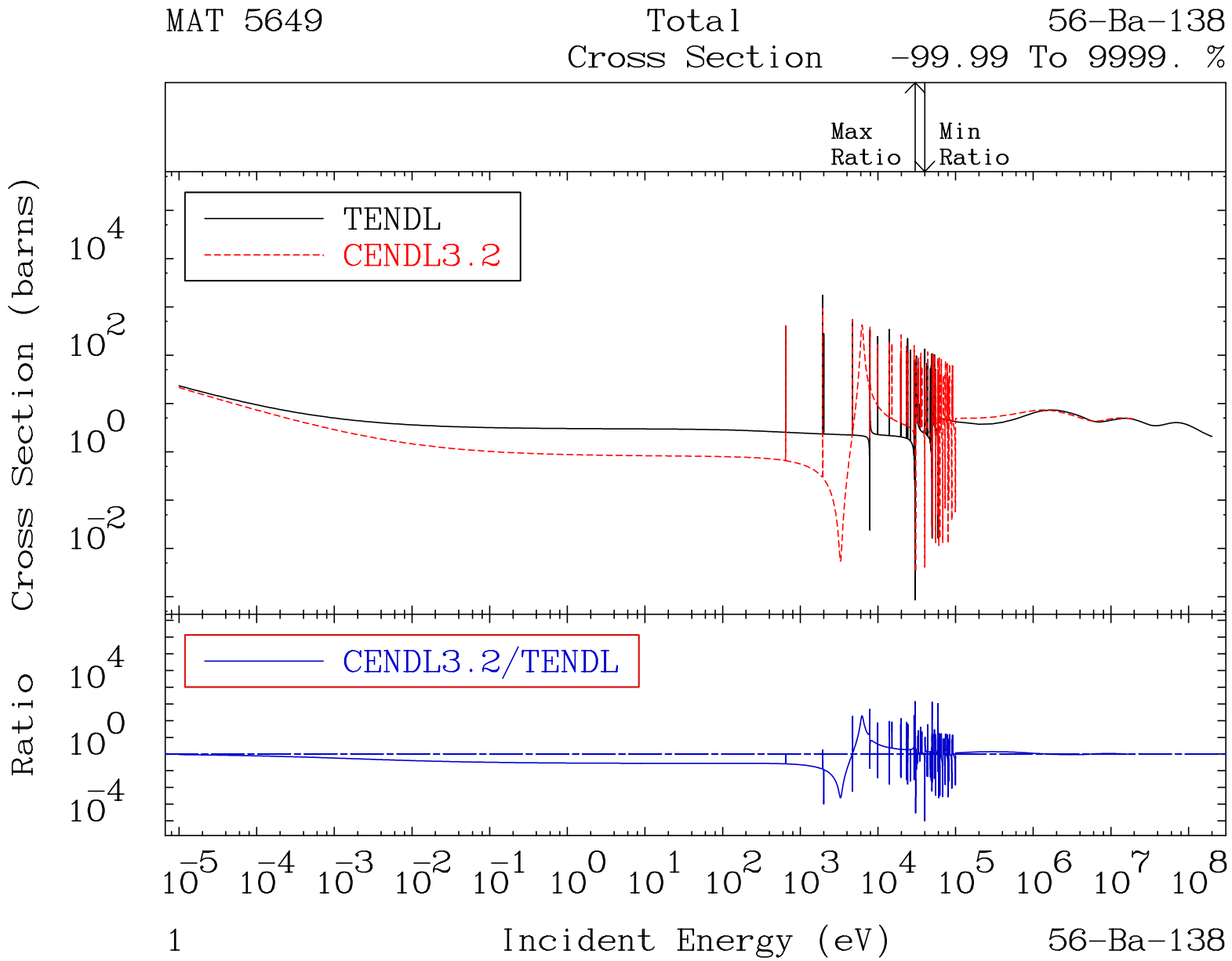
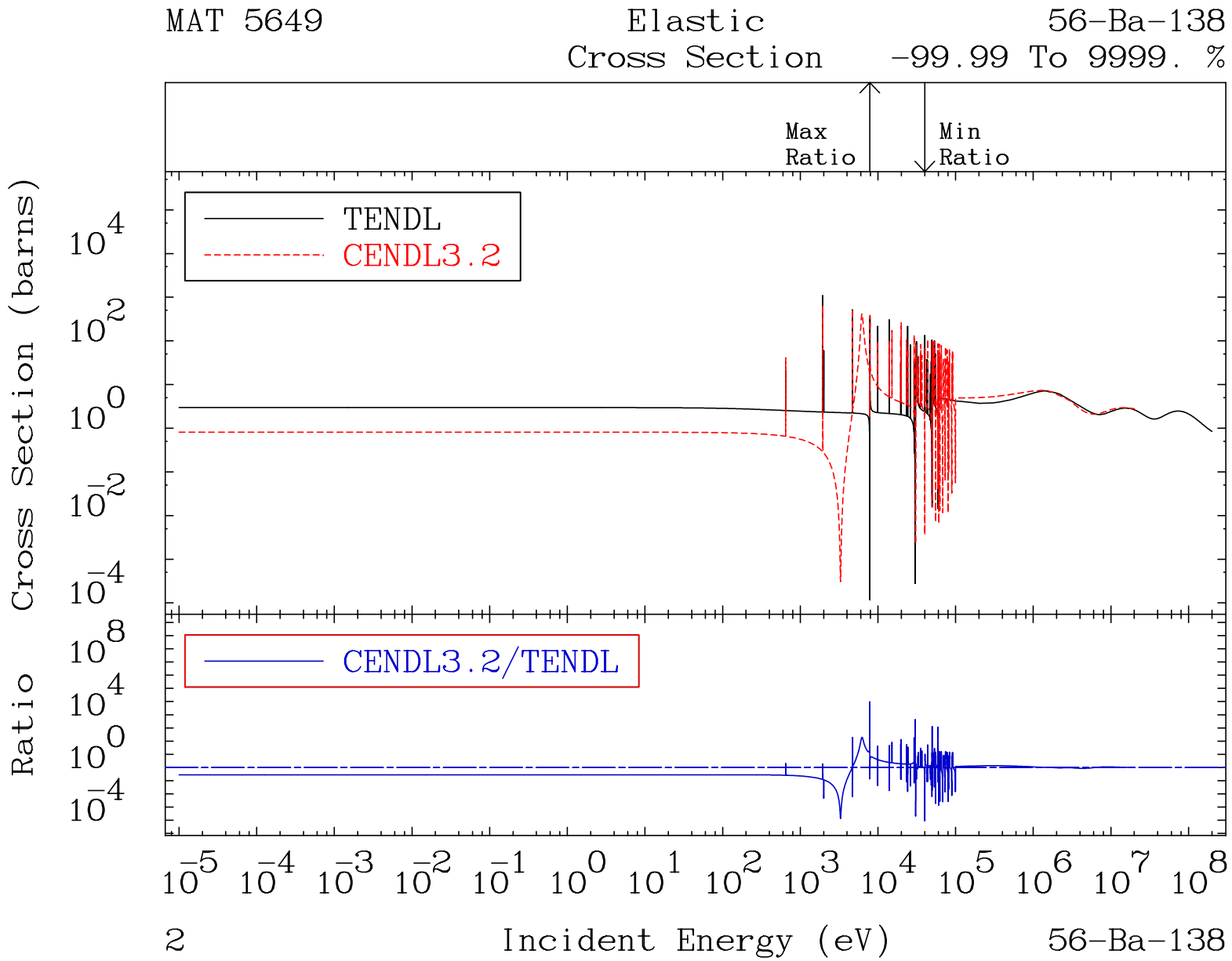
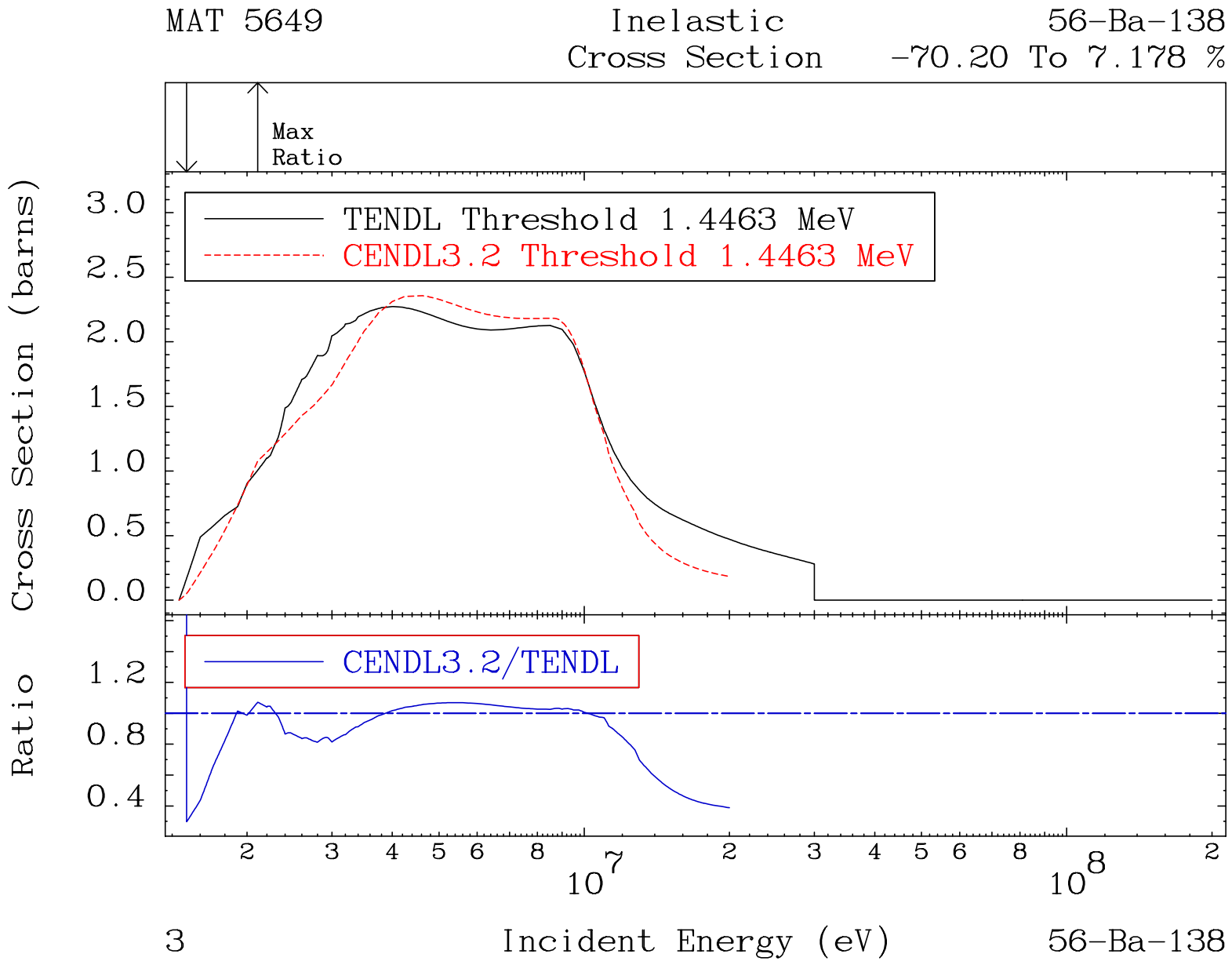
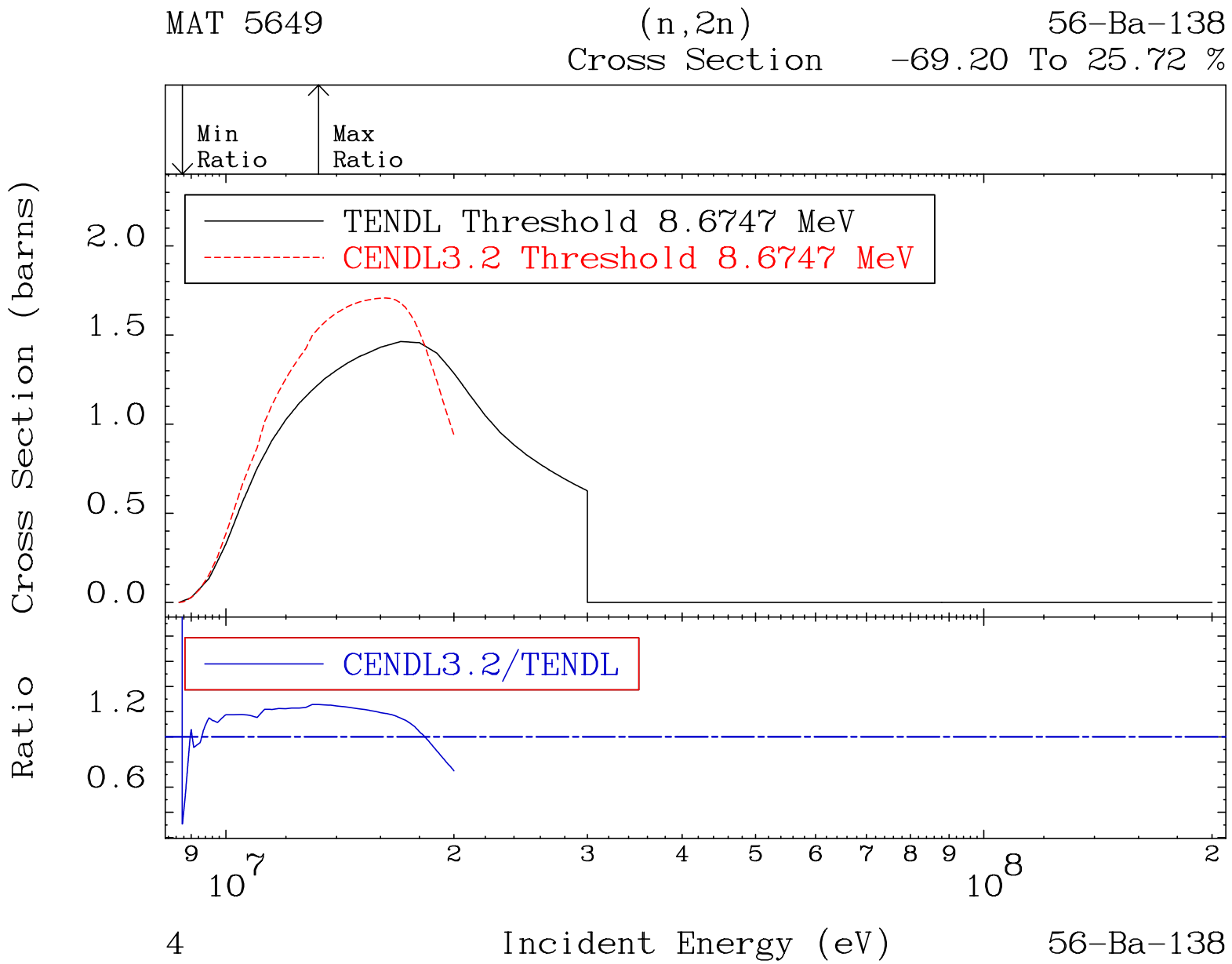
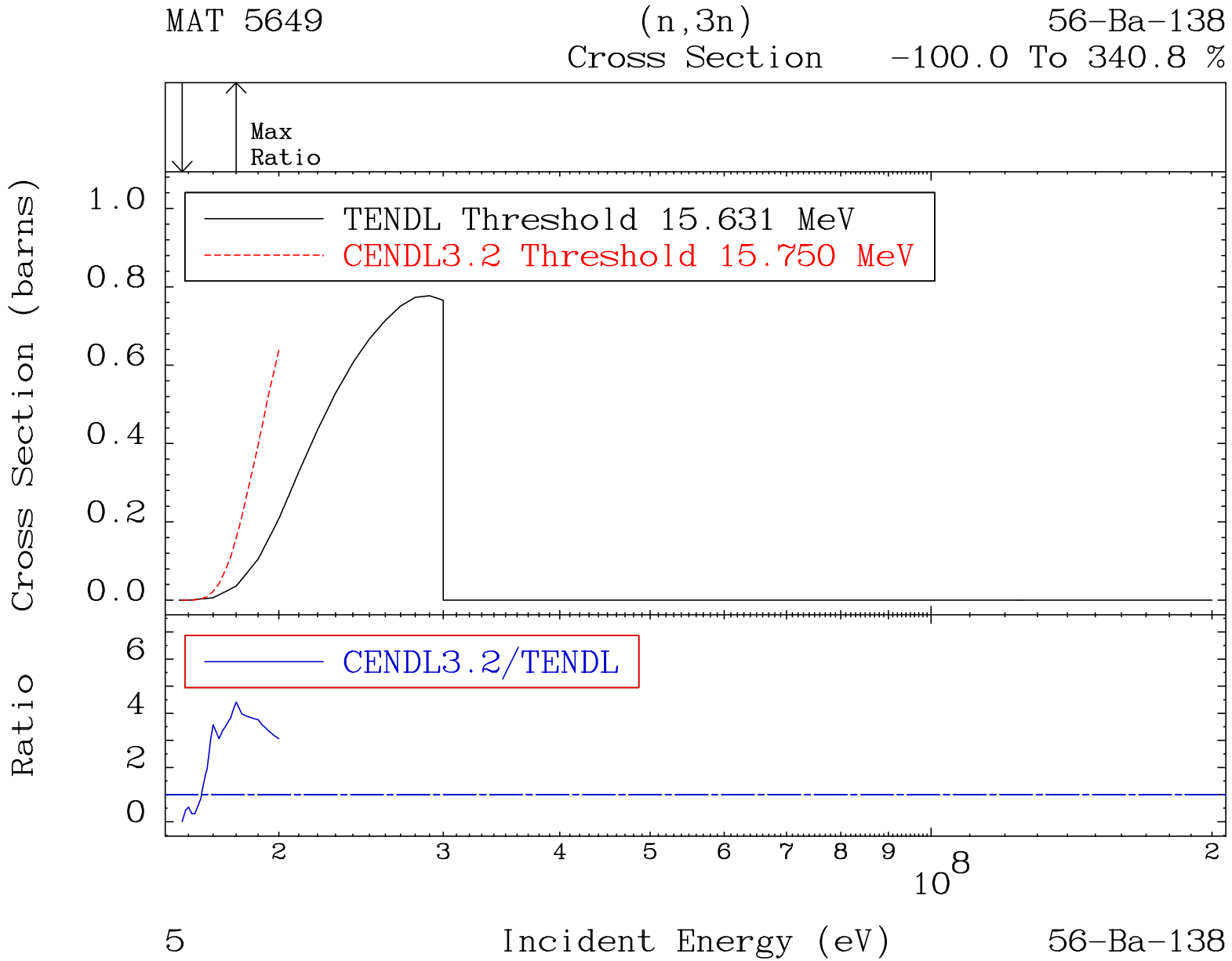
Press Mouse Button to Start

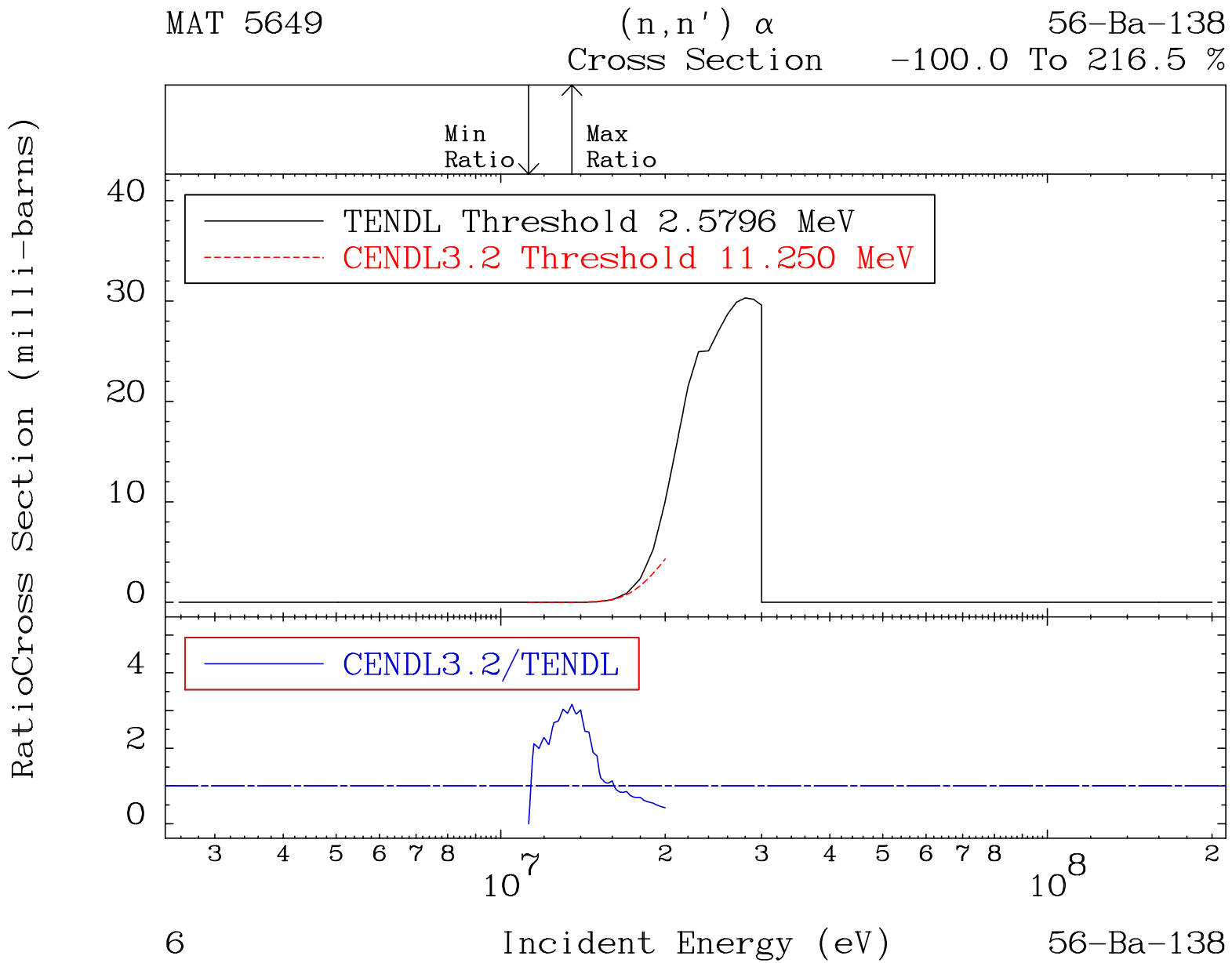

MAT 5649
Total
Cross Section
56-Ba-138
-99.99 To 9999. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
1
56-Ba-138

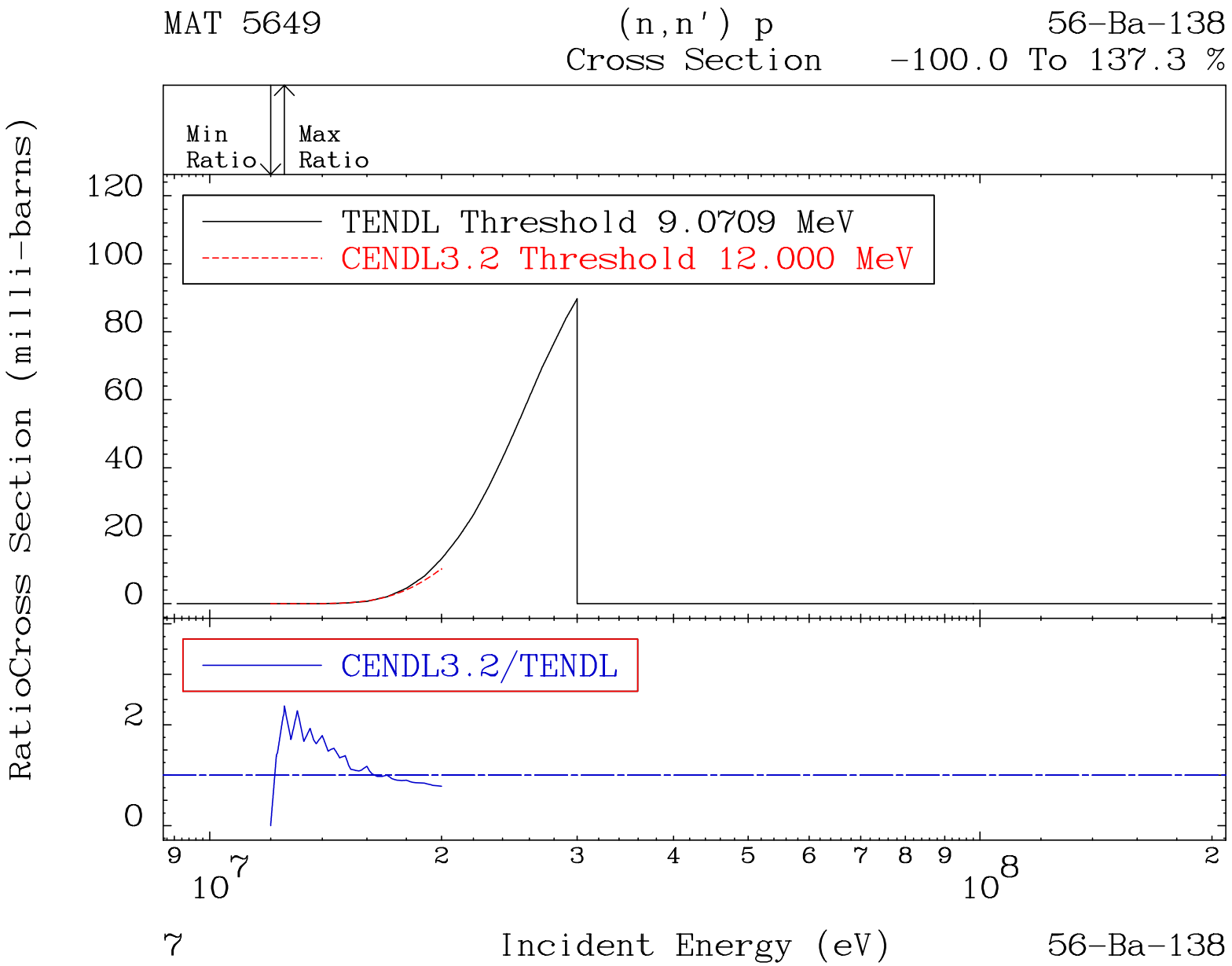

MAT 5649
Elastic
Cross Section
56-Ba-138
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (barns)
Incident Energy (eV)
2
56-Ba-138

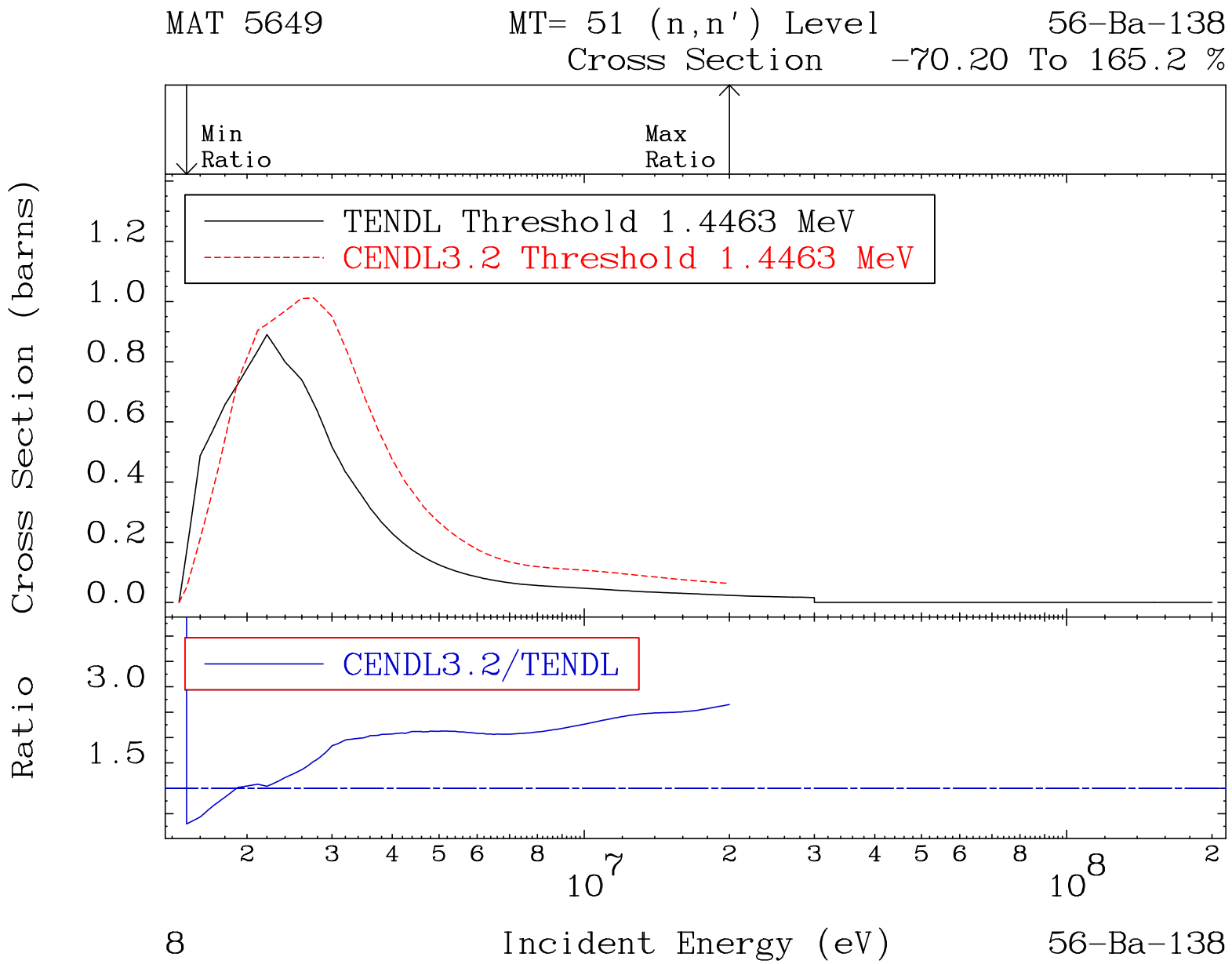

MAT 5649
Inelastic
Cross Section
56-Ba-138
-70.20 To 7.178 %
Max
Ratio
TENDL Threshold 1.4463 MeV
CENDL3.2 Threshold 1.4463 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.8
0.4
2
3
4
5
6
8
10^7
10^8
Incident Energy (eV)
3
56-Ba-138

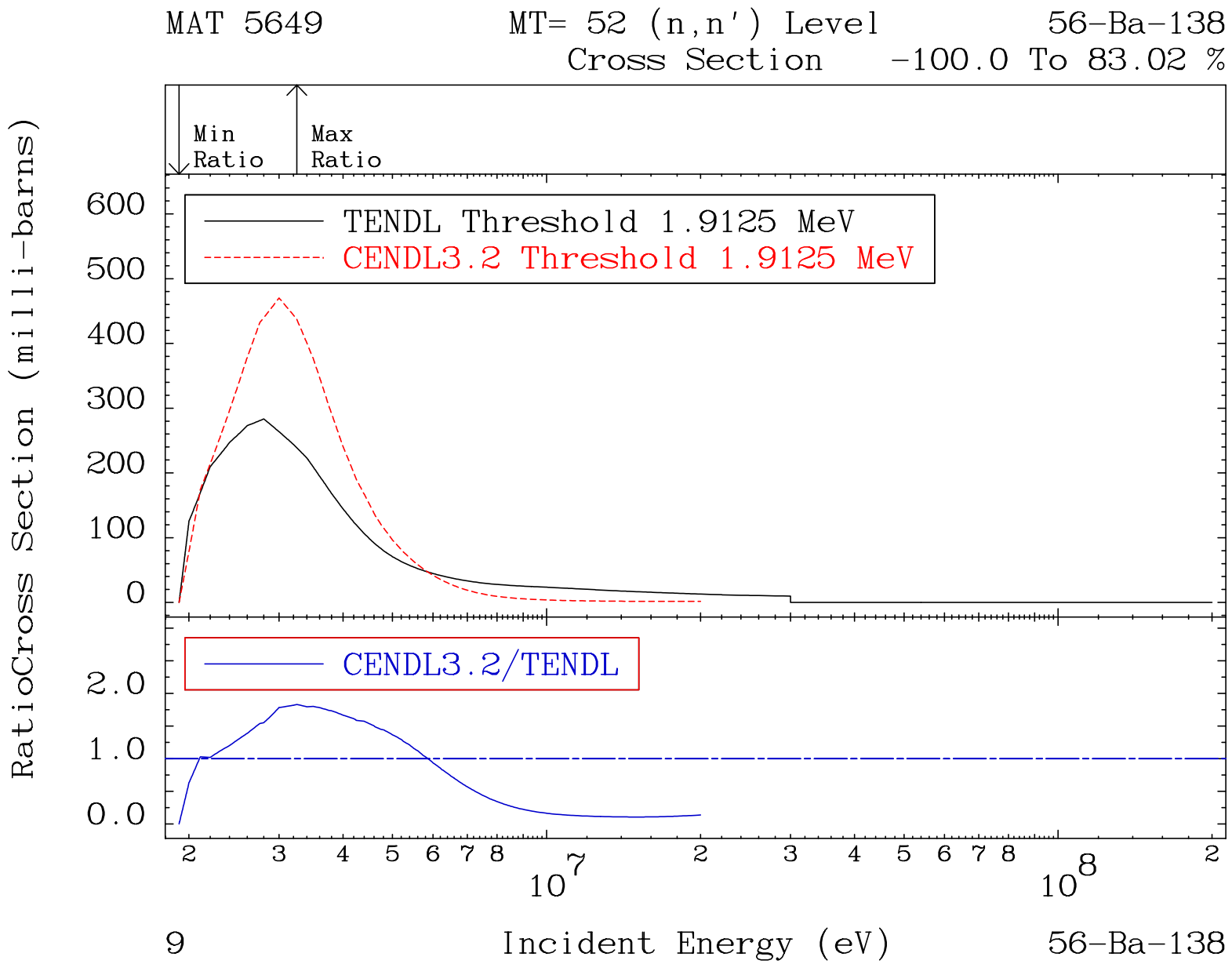

MAT 5649
(n,2n)
Cross Section
56-Ba-138
-69.20 To 25.72 %
Min Ratio
Max Ratio
TENDL Threshold 8.6747 MeV
CENDL3.2 Threshold 8.6747 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
56-Ba-138

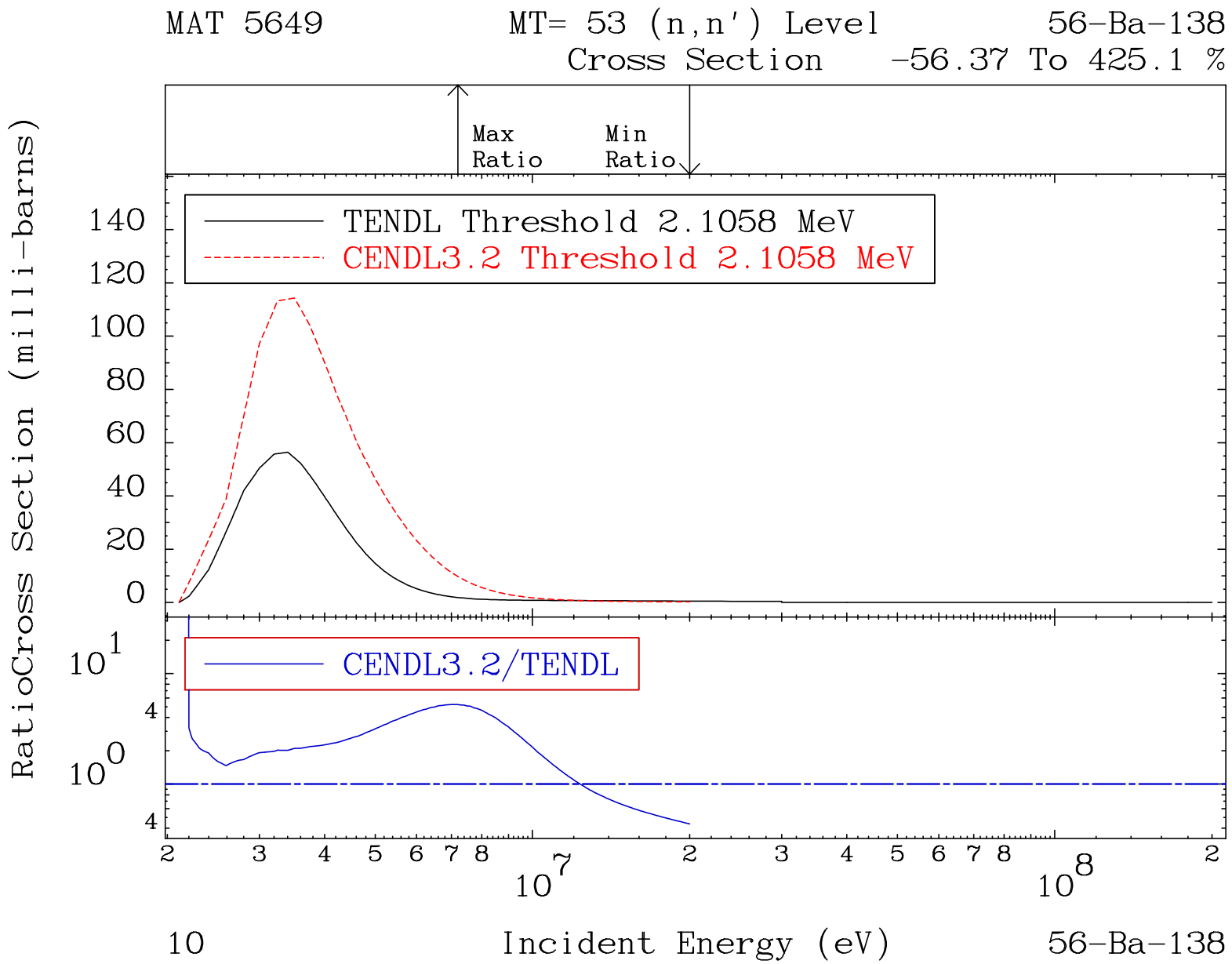

MAT 5649
(n,3n)
Cross Section
56-Ba-138
-100.0 To 340.8 %
Max
Ratio
TENDL Threshold 15.631 MeV
CENDL3.2 Threshold 15.750 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
56-Ba-138

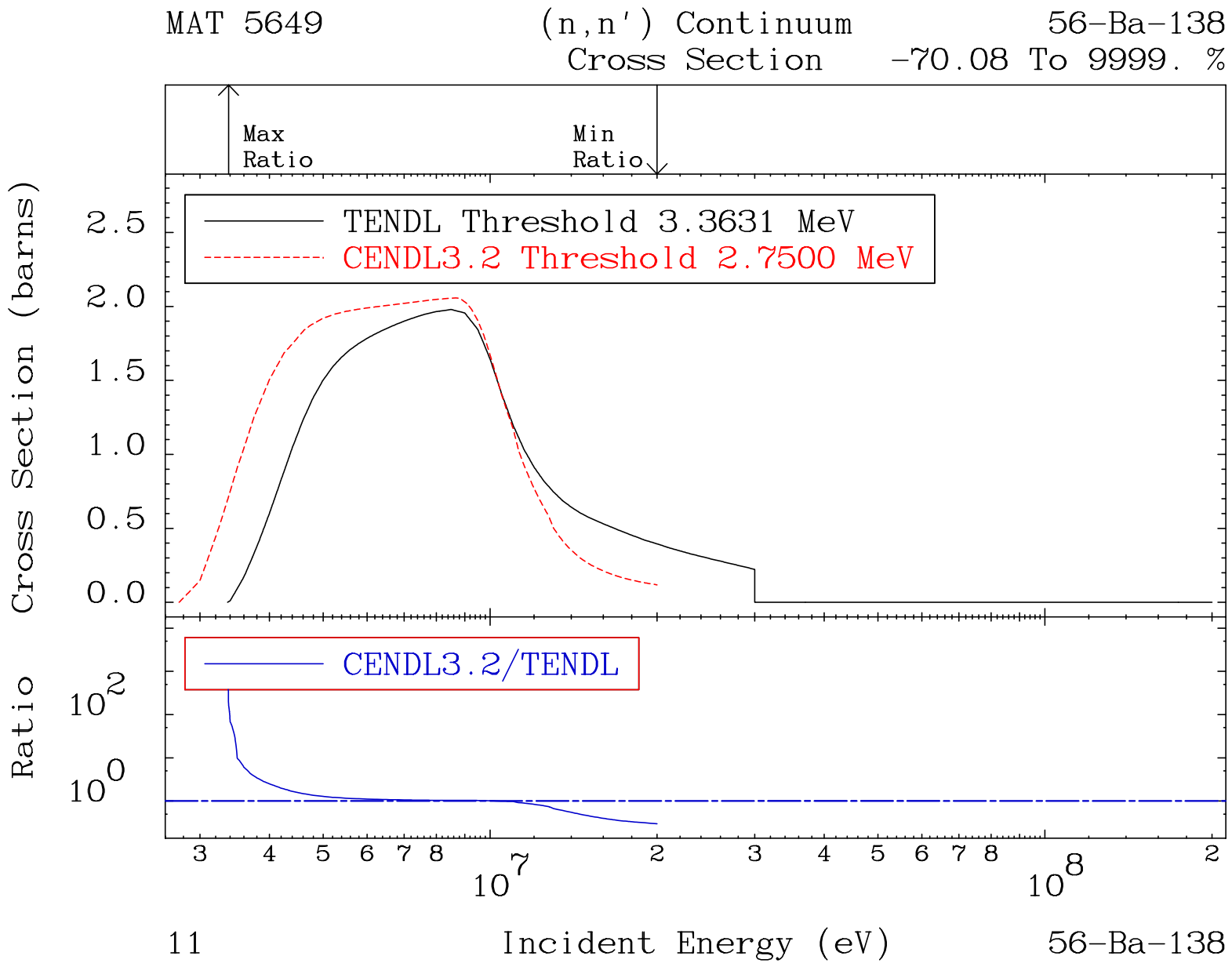

MAT 5649
(n,n') α
Cross Section
56-Ba-138
-100.0 To 216.5 %
Min Ratio
Max Ratio
TENDL Threshold 2.5796 MeV
CENDL3.2 Threshold 11.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
56-Ba-138

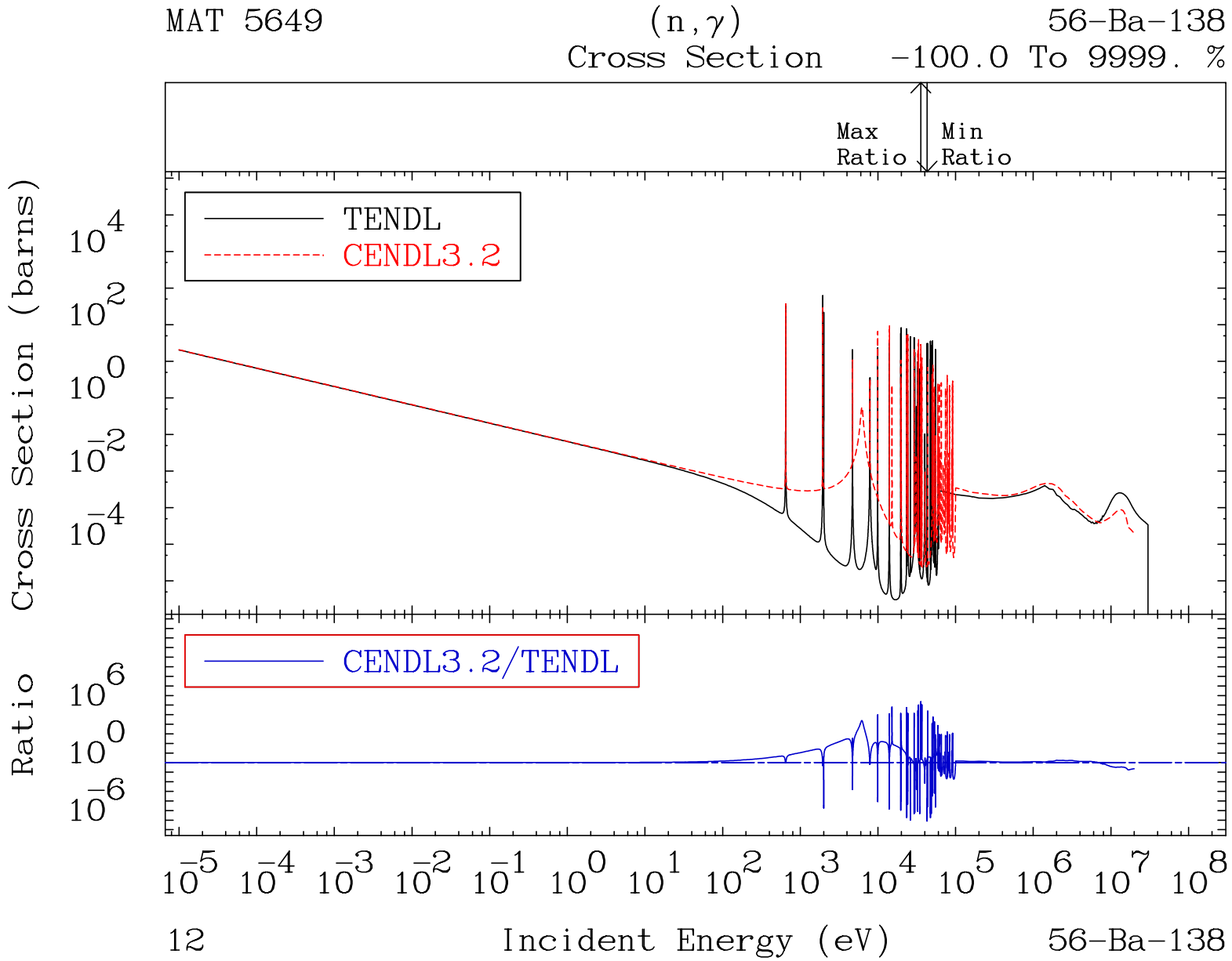

MAT 5649
(n,n') p
Cross Section
56-Ba-138
-100.0 To 137.3 %
Min Ratio
Max Ratio
TENDL Threshold 9.0709 MeV
CENDL3.2 Threshold 12.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
56-Ba-138

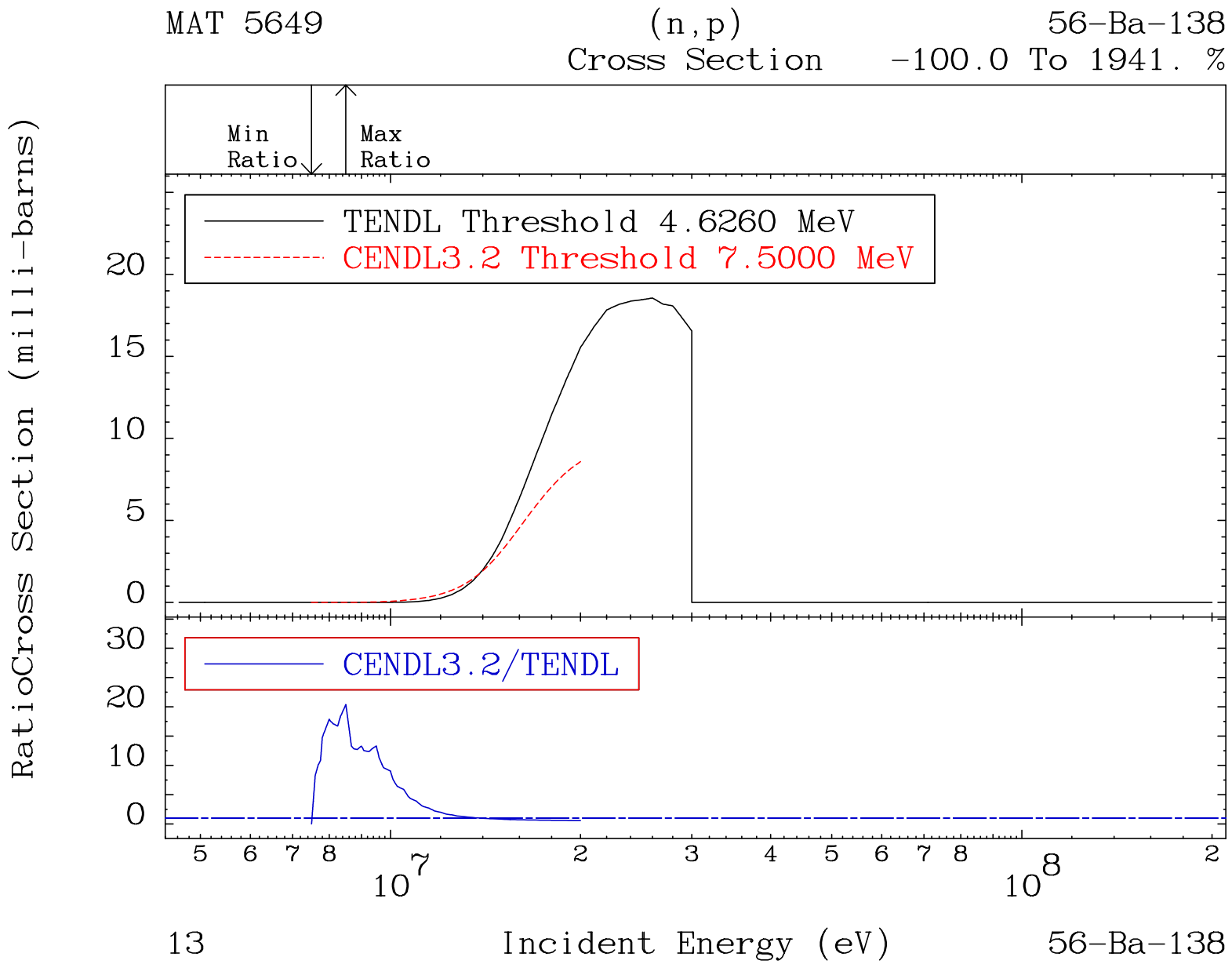

MAT 5649
MT= 51 (n,n') Level
56-Ba-138
Cross Section
-70.20 To 165.2 %
Min Ratio
Max Ratio
TENDL Threshold 1.4463 MeV
CENDL3.2 Threshold 1.4463 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
1.5
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
8
56-Ba-138

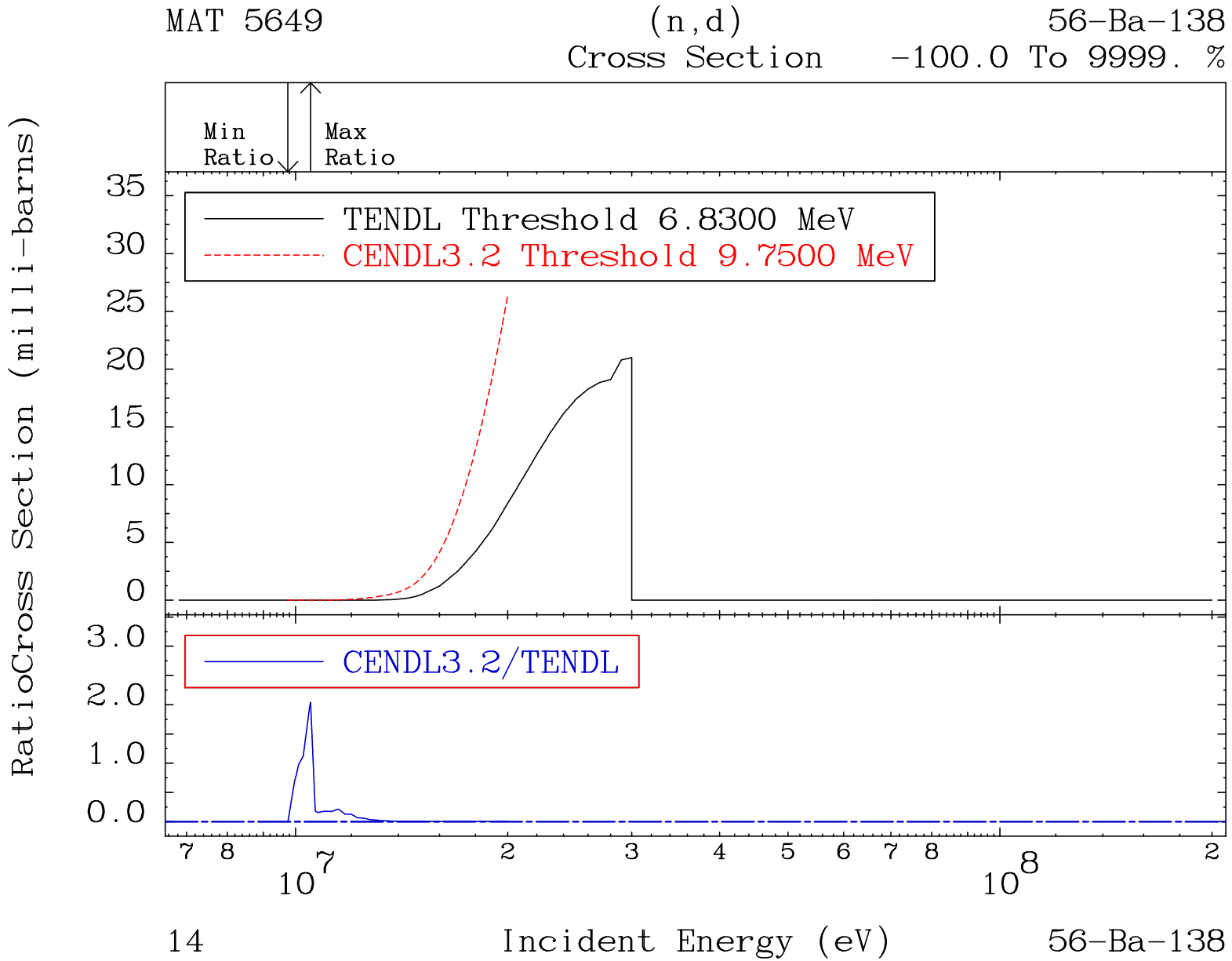

MAT 5649
MT= 52 (n,n') Level
56-Ba-138
Cross Section
-100.0 To 83.02 %
Min Ratio
Max Ratio
TENDL Threshold 1.9125 MeV
CENDL3.2 Threshold 1.9125 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
56-Ba-138

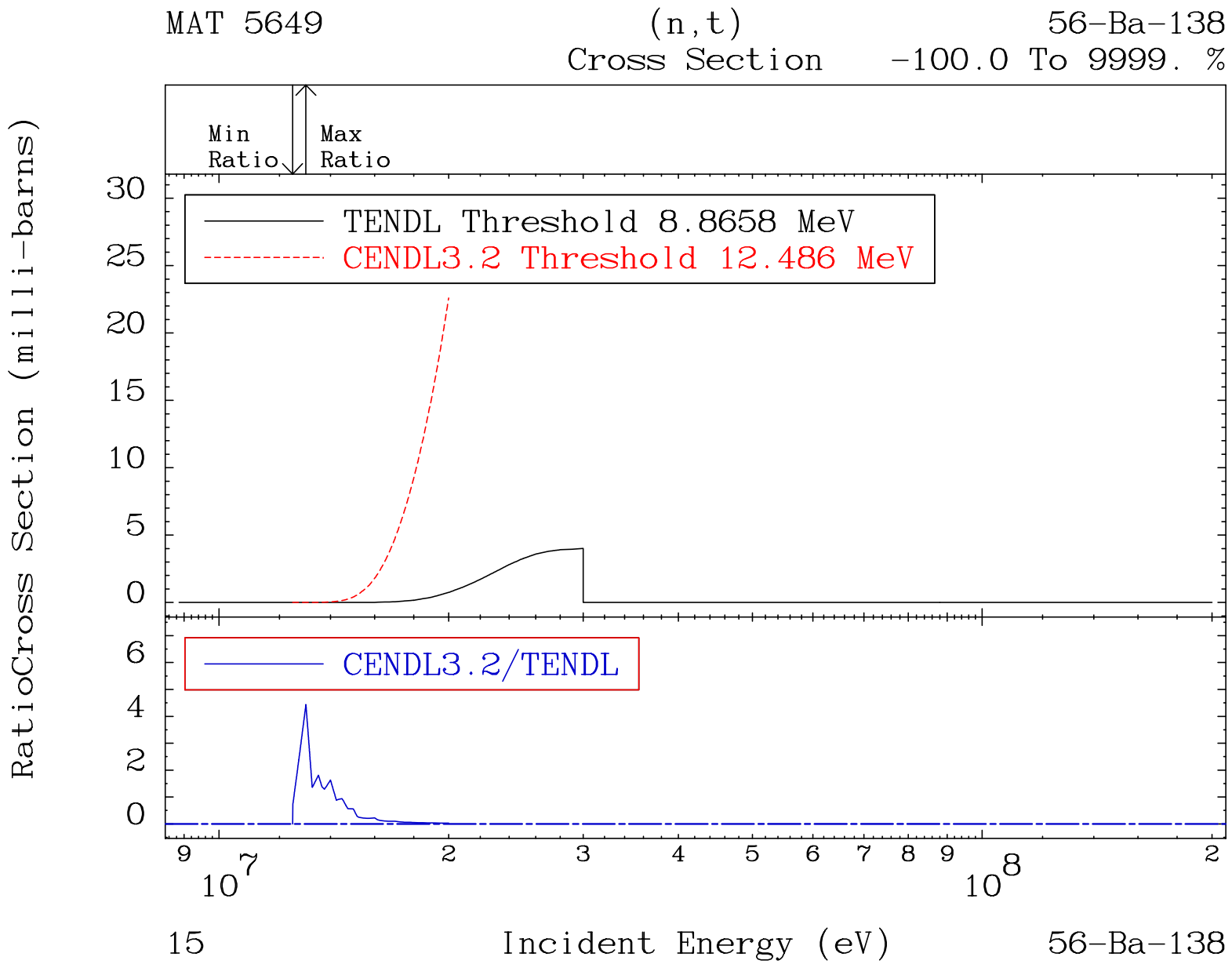

MAT 5649
MT= 53 (n,n') Level
56-Ba-138
Cross Section -56.37 To 425.1 %
Max Ratio
Min Ratio
TENDL Threshold 2.1058 MeV
CENDL3.2 Threshold 2.1058 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10
56-Ba-138

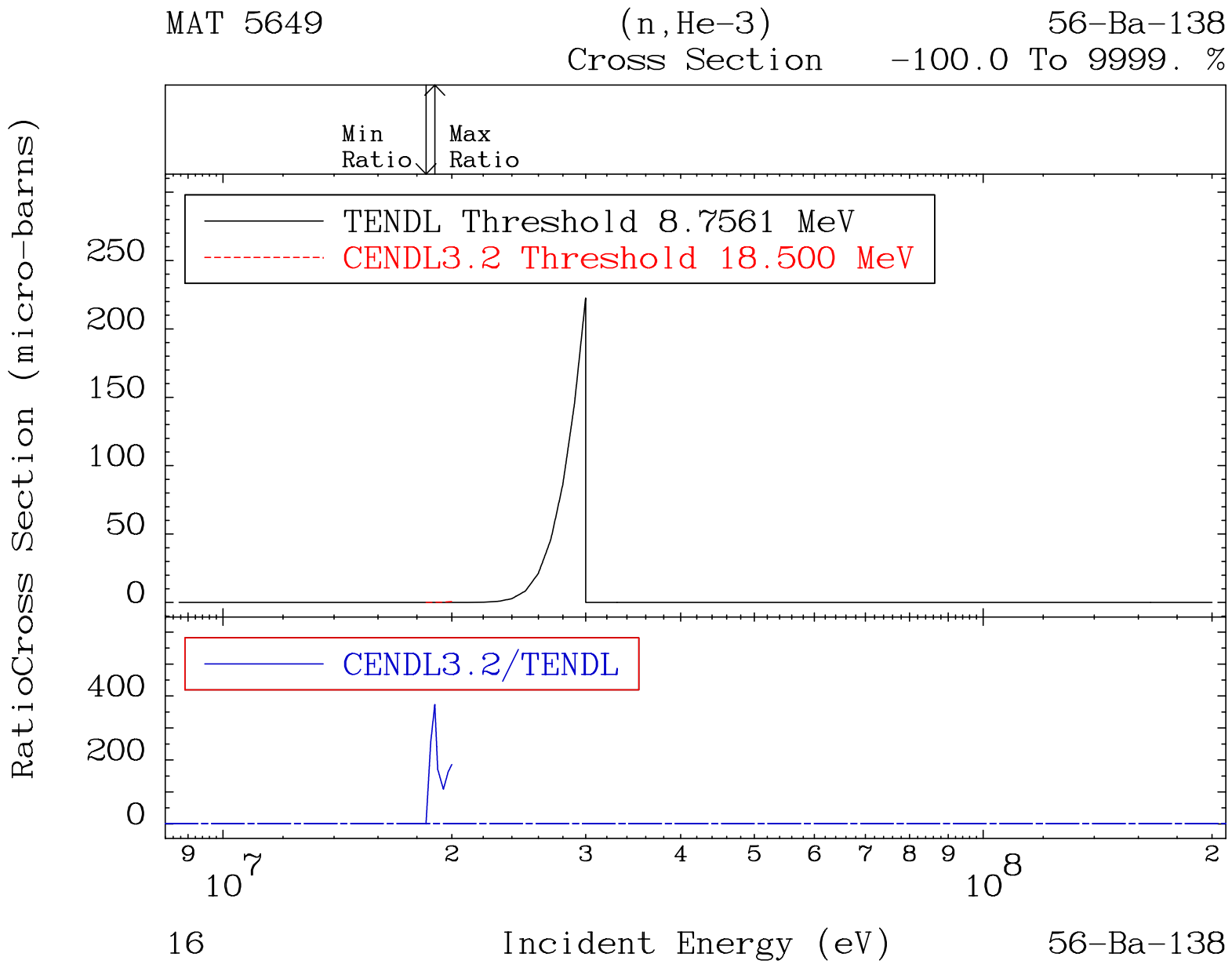

MAT 5649
(n,n') Continuum
Cross Section
56-Ba-138
-70.08 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3631 MeV
CENDL3.2 Threshold 2.7500 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
10^2
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
56-Ba-138

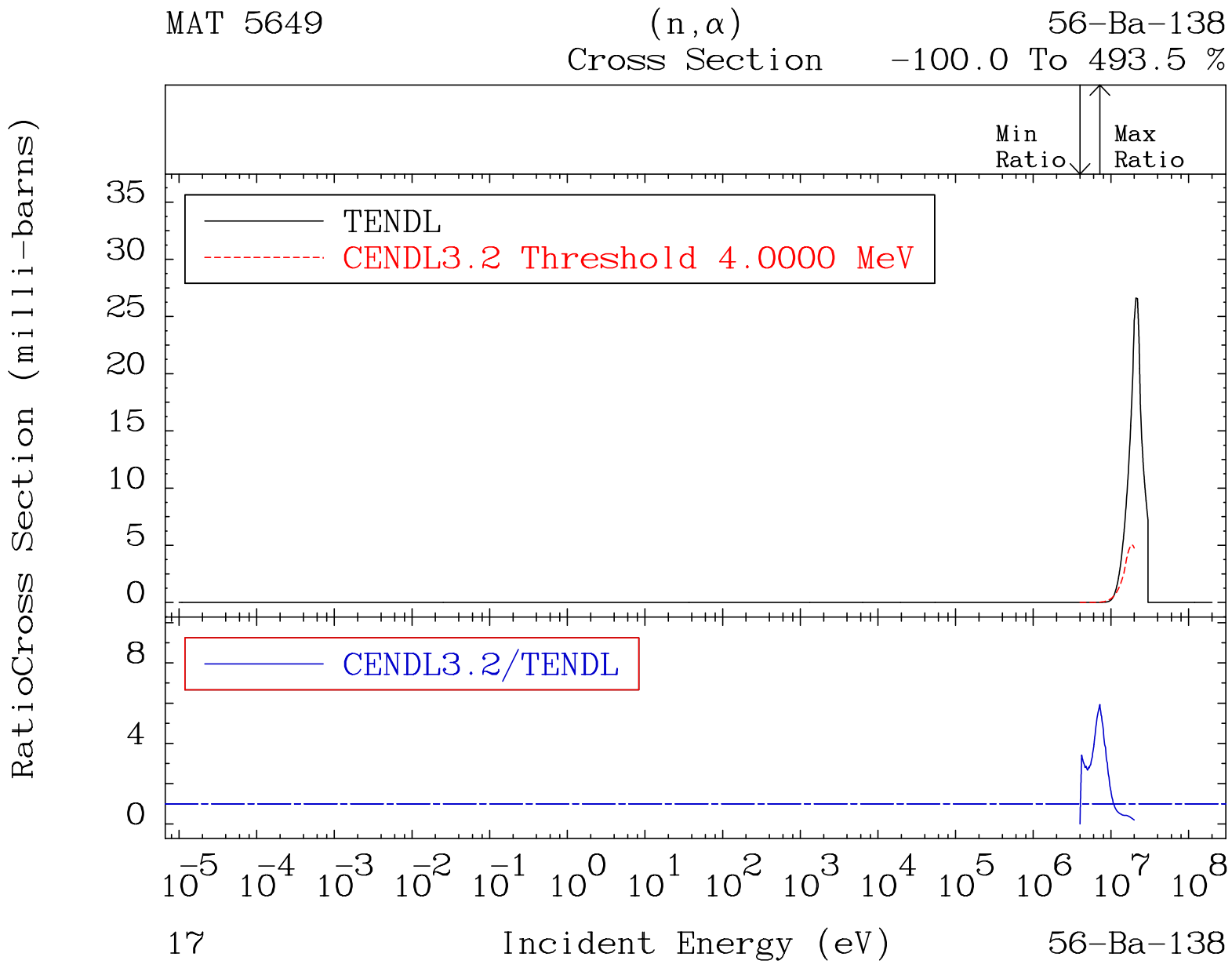

MAT 5649
(n,γ)
Cross Section
56-Ba-138
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
12
56-Ba-138

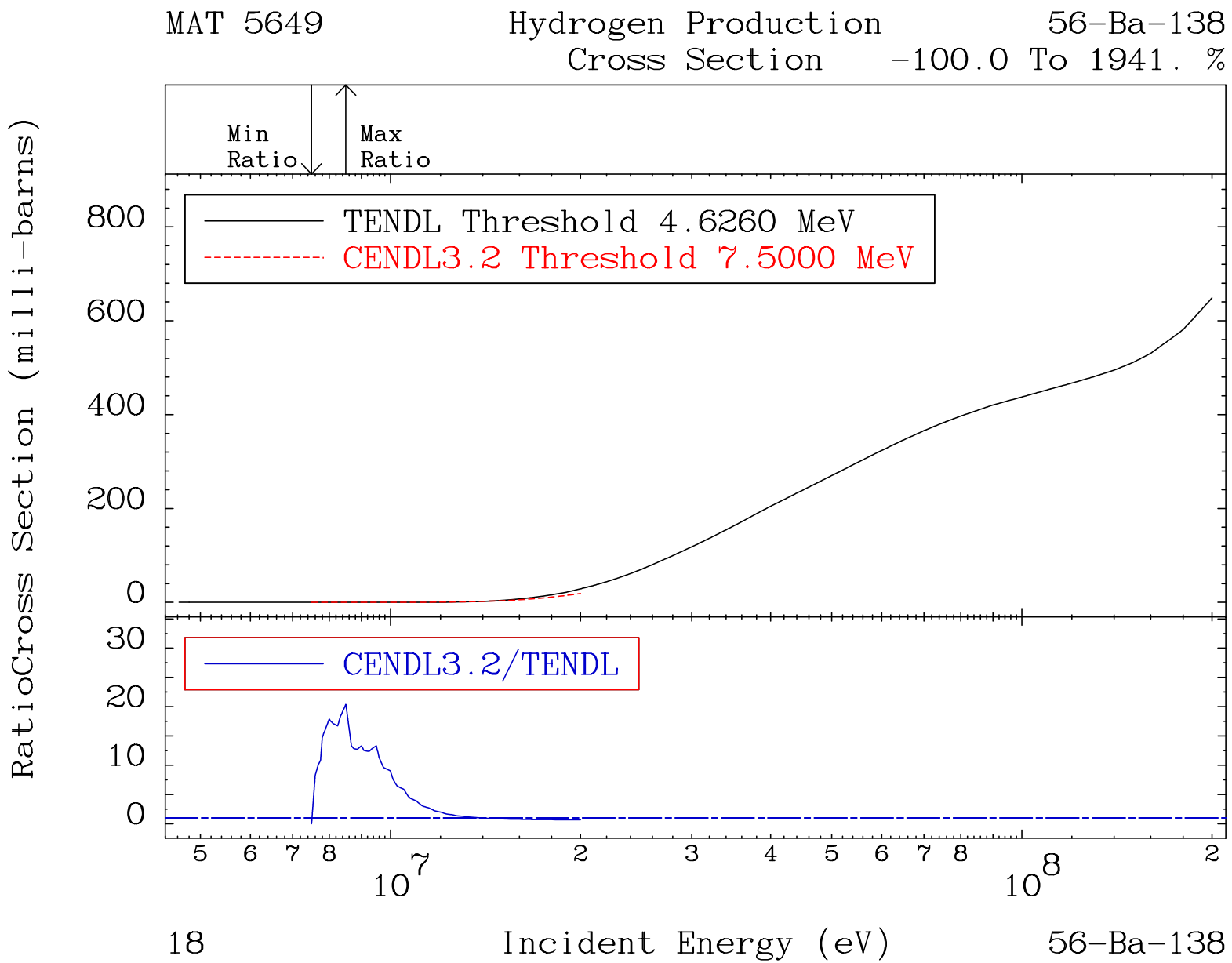

MAT 5649
(n,p)
56-Ba-138
Cross Section
-100.0 To 1941. %
Min Ratio
Max Ratio
TENDL Threshold 4.6260 MeV
CENDL3.2 Threshold 7.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
13
56-Ba-138

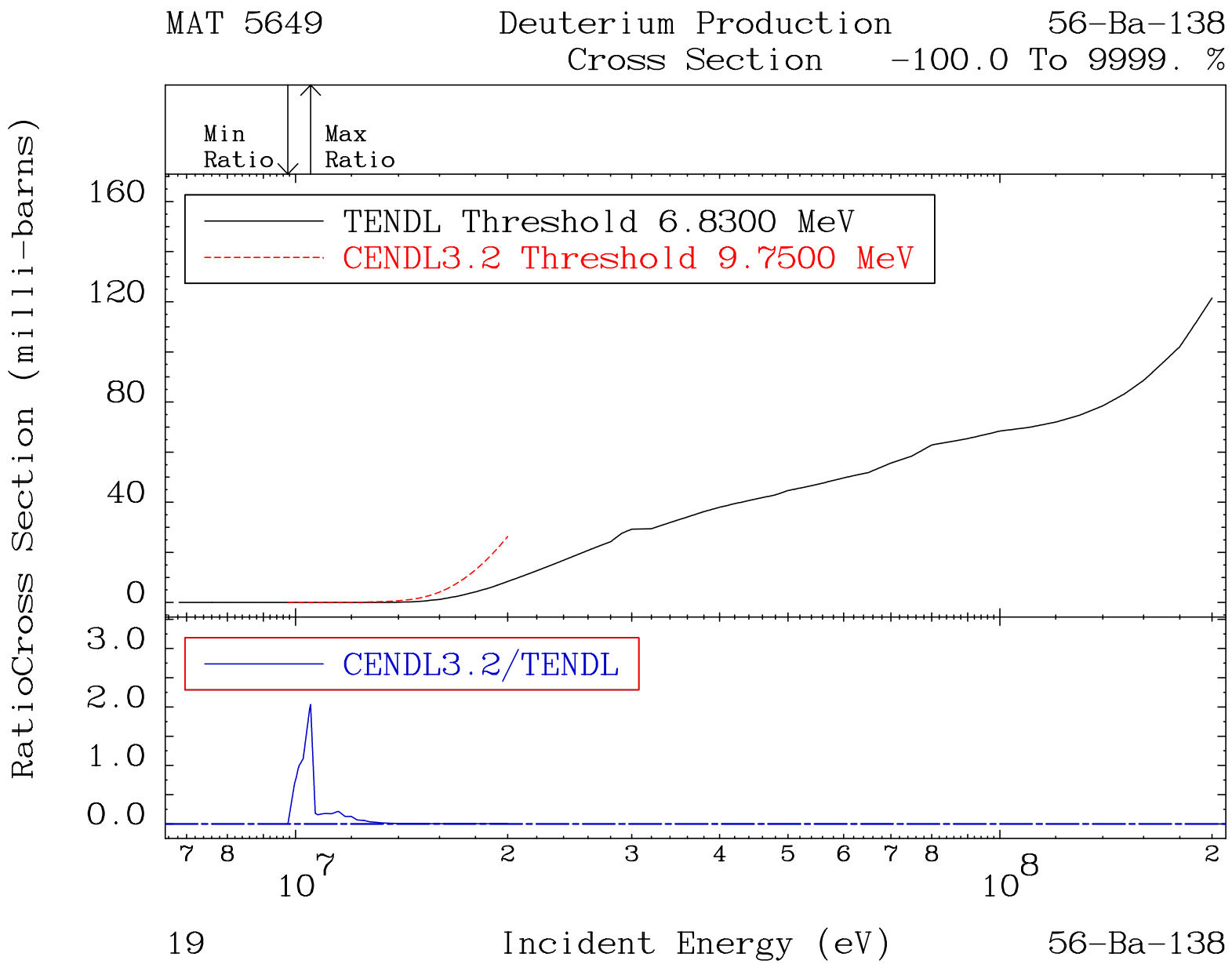

MAT 5649
(n,d)
56-Ba-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.8300 MeV
CENDL3.2 Threshold 9.7500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
56-Ba-138

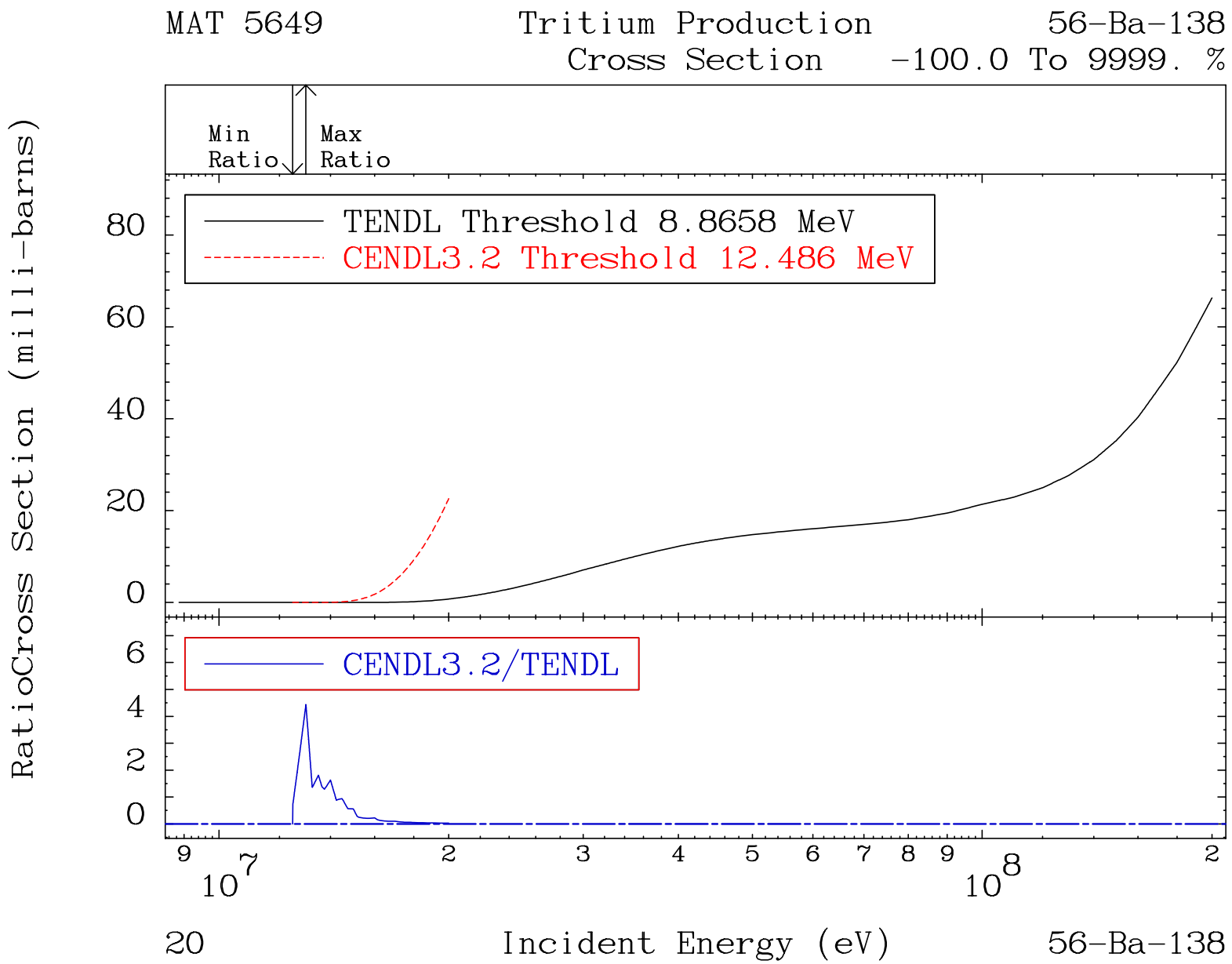

MAT 5649
(n,t)
Cross Section
56-Ba-138
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.8658 MeV
CENDL3.2 Threshold 12.486 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
6
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
56-Ba-138

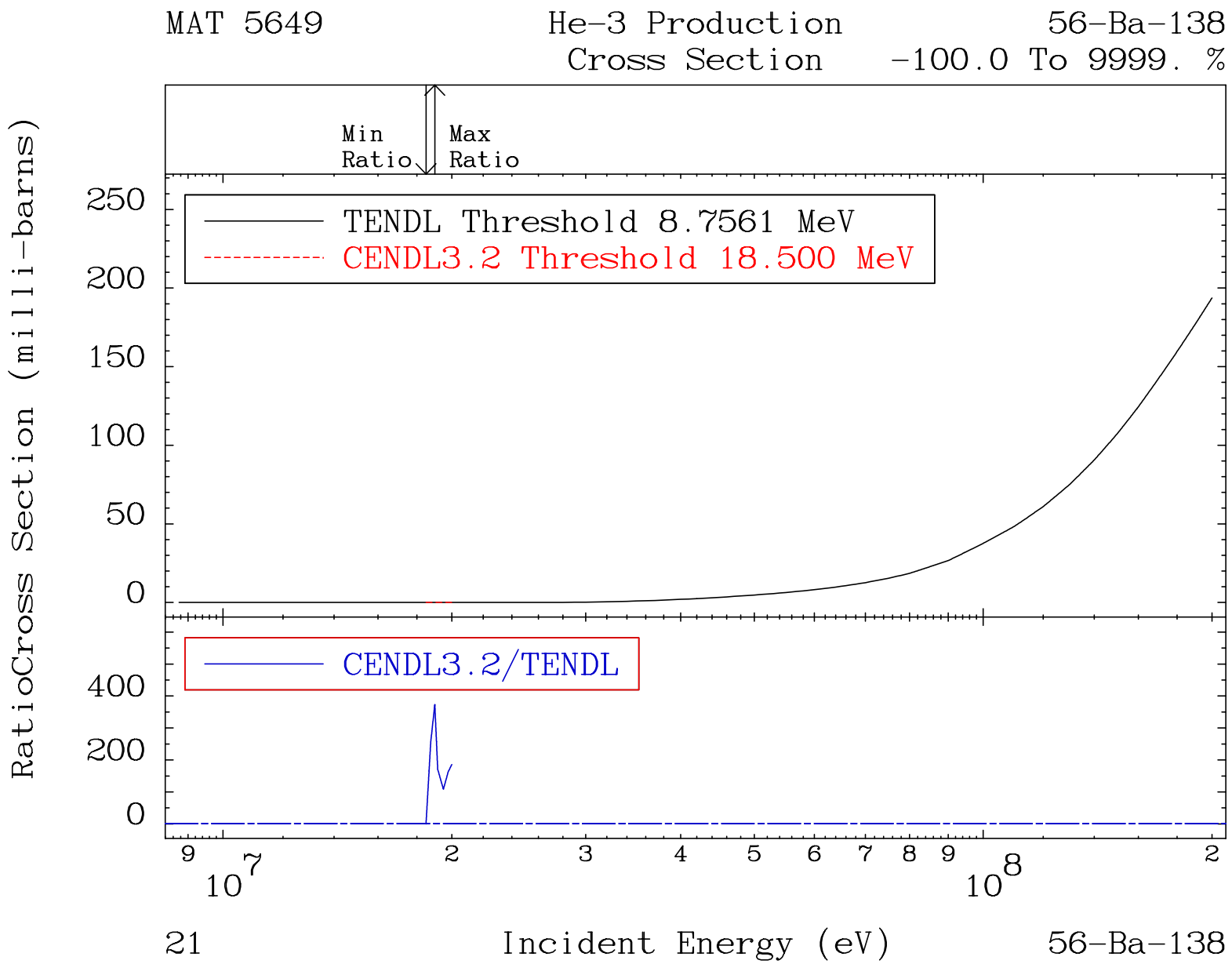

MAT 5649
(n,He-3)
56-Ba-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.7561 MeV
CENDL3.2 Threshold 18.500 MeV
CENDL3.2/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
400
200
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
16
Incident Energy (eV)
56-Ba-138

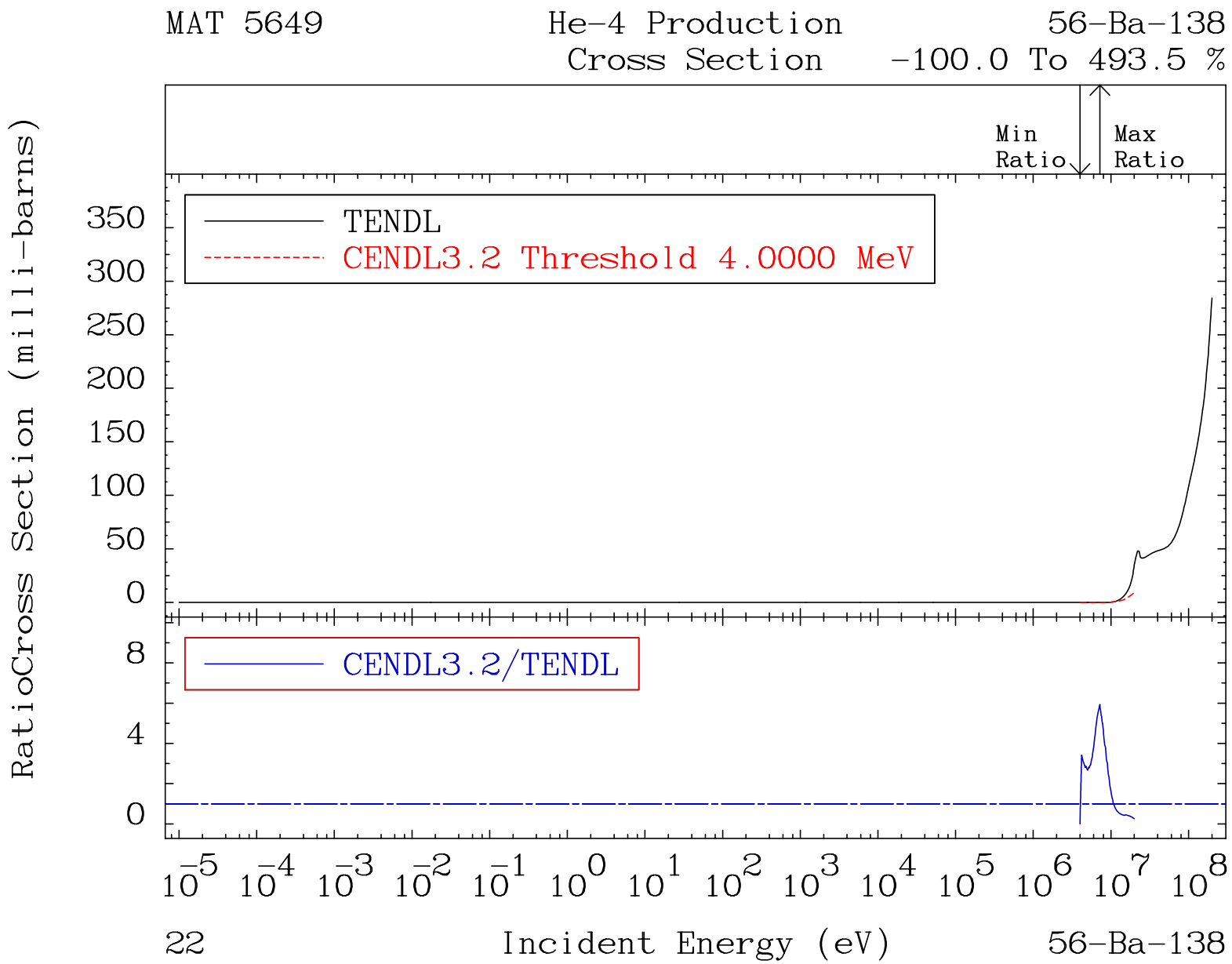

MAT 5649
(n,α)
56-Ba-138
Cross Section
-100.0 To 493.5 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 4.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
8
4
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
17
Incident Energy (eV)
56-Ba-138

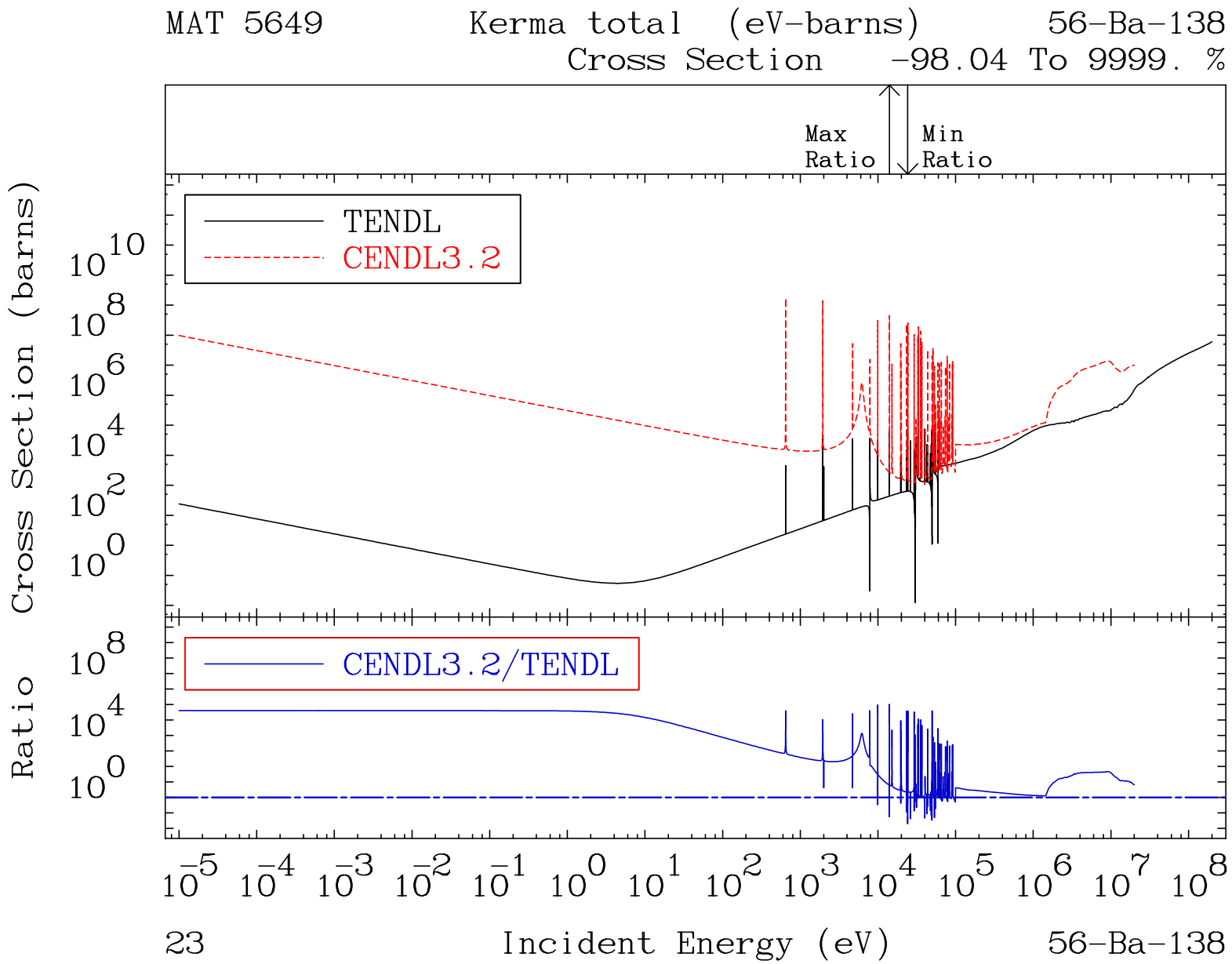

MAT 5649
Hydrogen Production
56-Ba-138
Cross Section -100.0 To 1941. %
Min Ratio
Max Ratio
TENDL Threshold 4.6260 MeV
CENDL3.2 Threshold 7.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
30
20
10
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
56-Ba-138

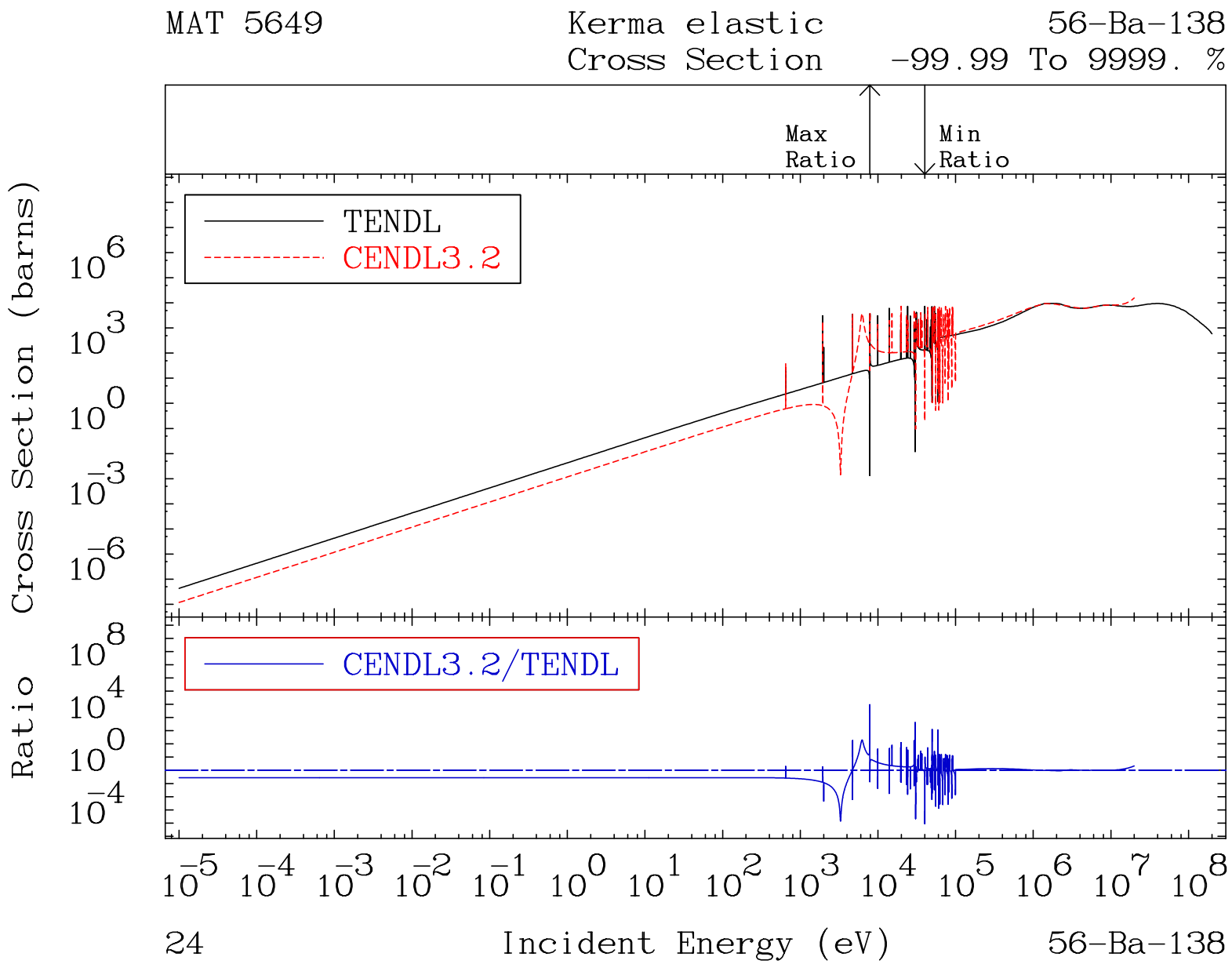

MAT 5649
Deuterium Production
56-Ba-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.8300 MeV
CENDL3.2 Threshold 9.7500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
3.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
56-Ba-138

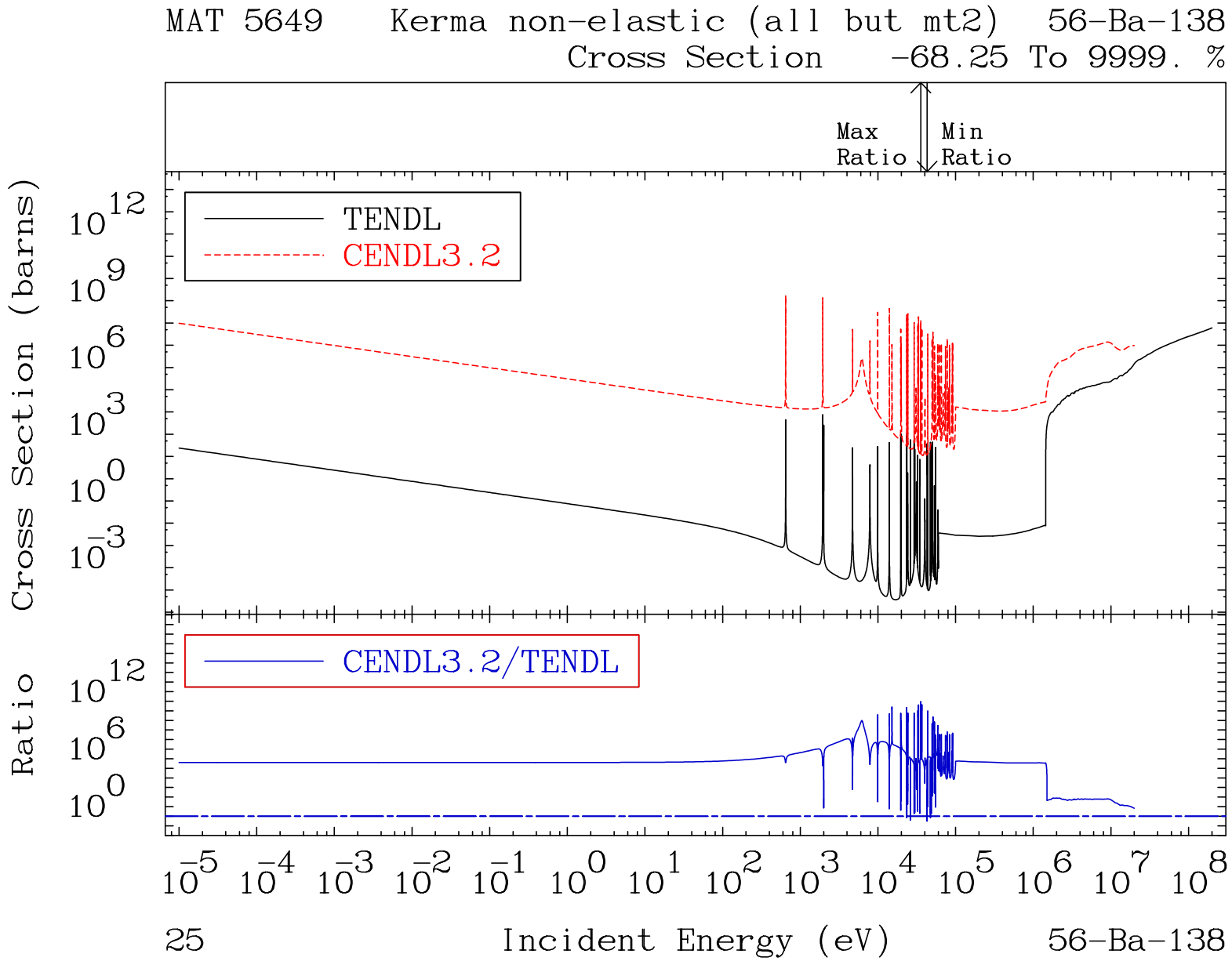

MAT 5649
Tritium Production
56-Ba-138
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.8658 MeV
CENDL3.2 Threshold 12.486 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
6
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
56-Ba-138

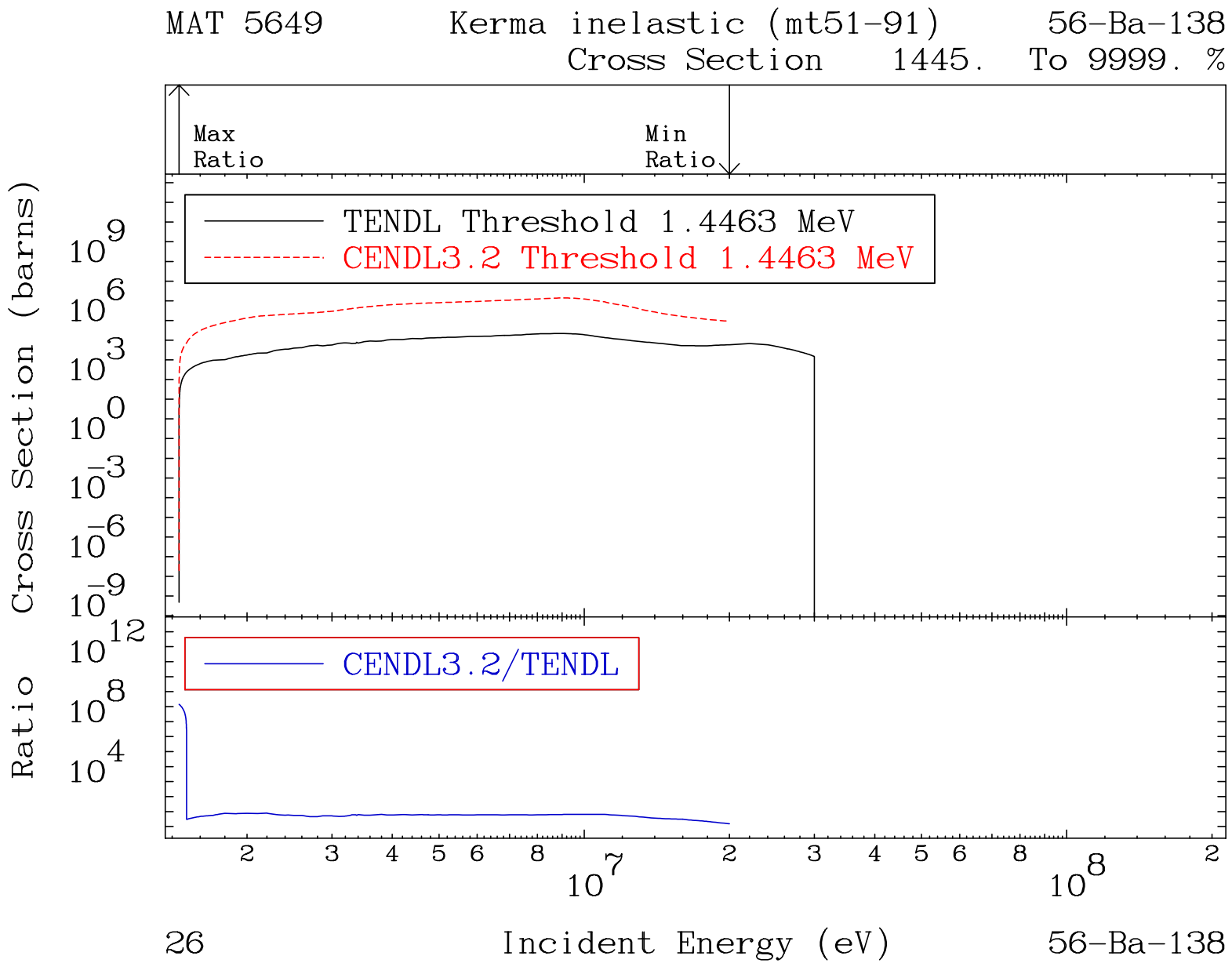

MAT 5649
He-3 Production
Cross Section
56-Ba-138
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.7561 MeV
CENDL3.2 Threshold 18.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
400
200
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
21
Incident Energy (eV)
56-Ba-138

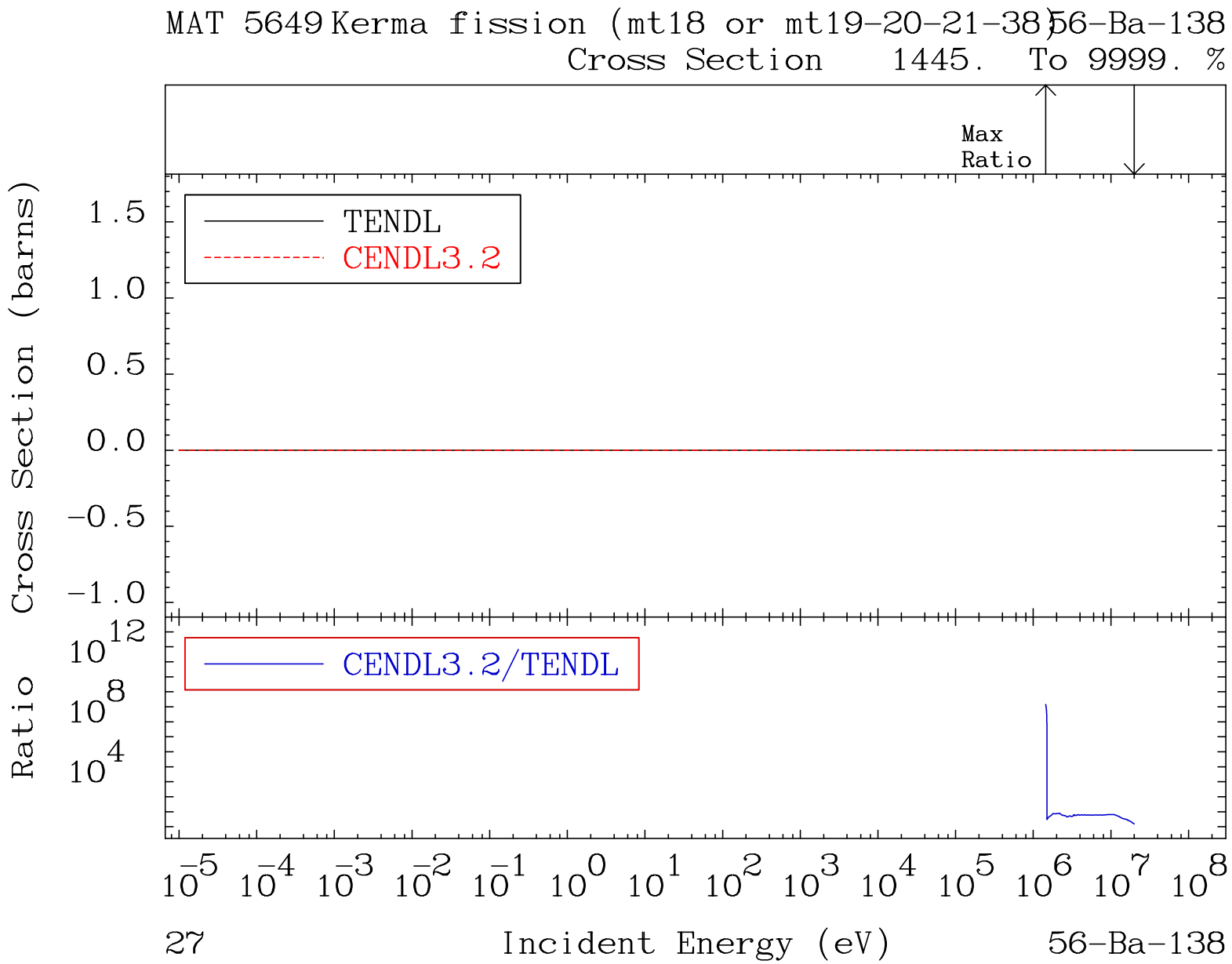

MAT 5649
He-4 Production
Cross Section
56-Ba-138
-100.0 To 493.5 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 4.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
8
4
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
22
Incident Energy (eV)
56-Ba-138

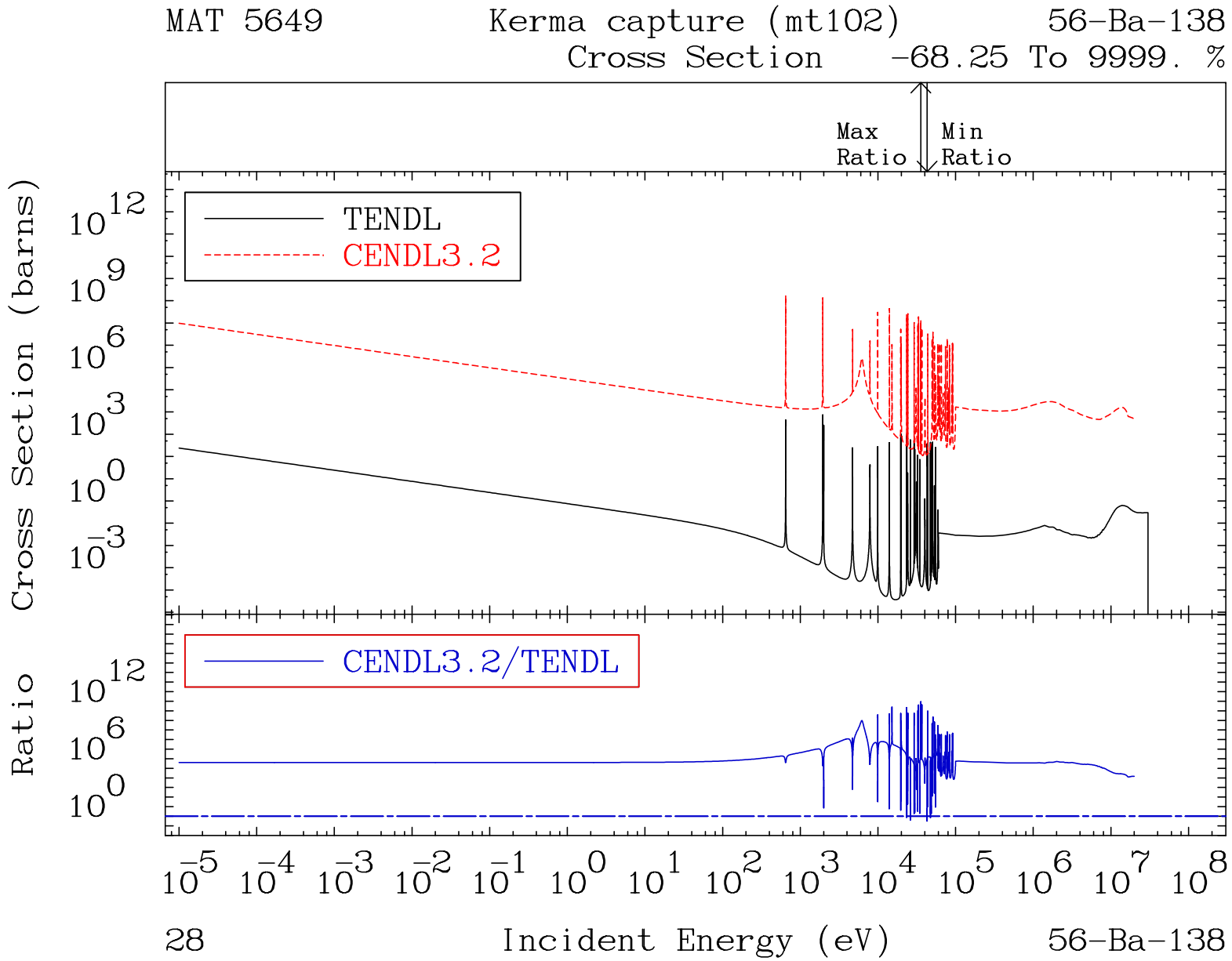

MAT 5649
Kerma total (eV-barns)
56-Ba-138
Cross Section -98.04 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
23
56-Ba-138

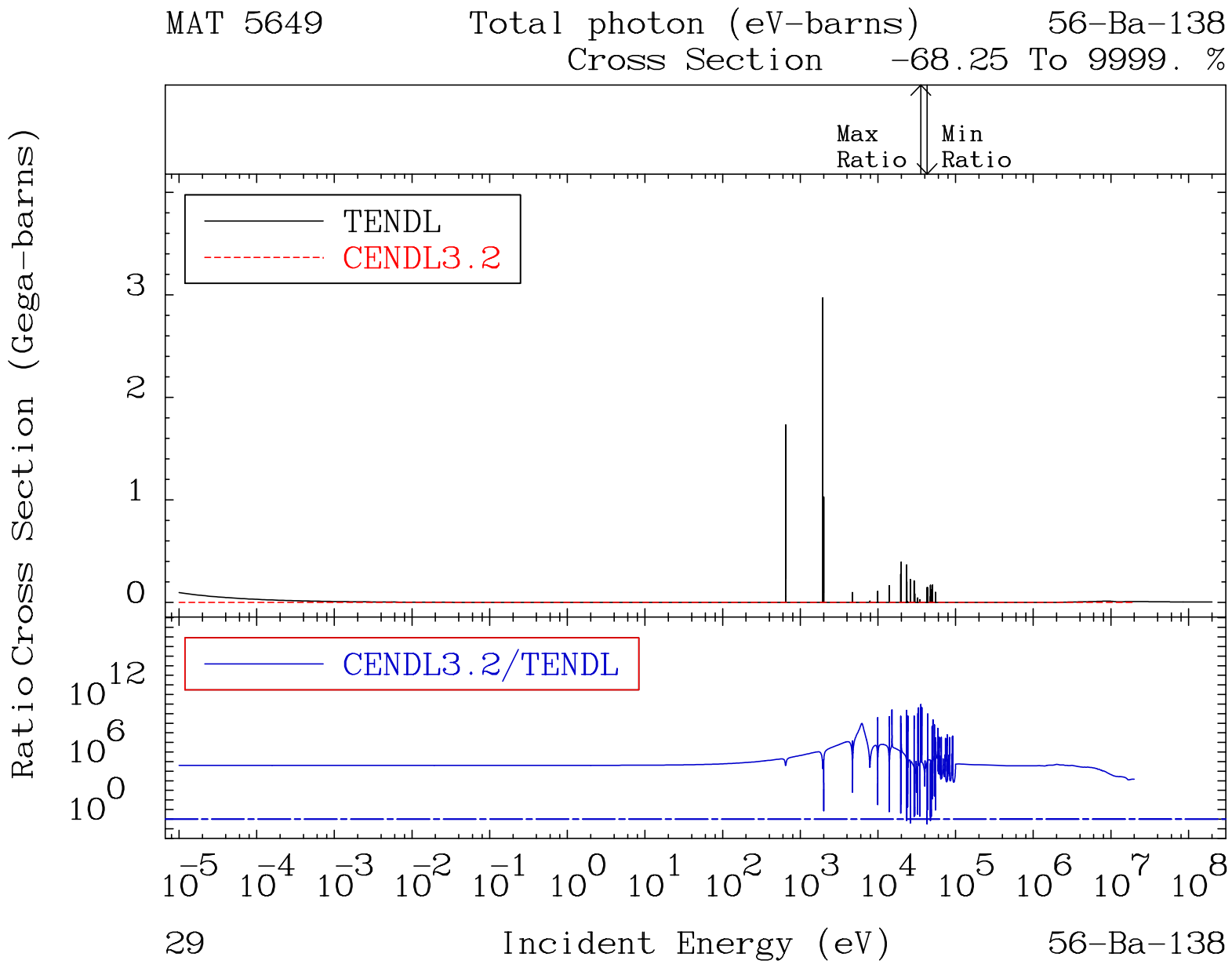

MAT 5649
Kerma elastic
Cross Section
56-Ba-138
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
24
56-Ba-138

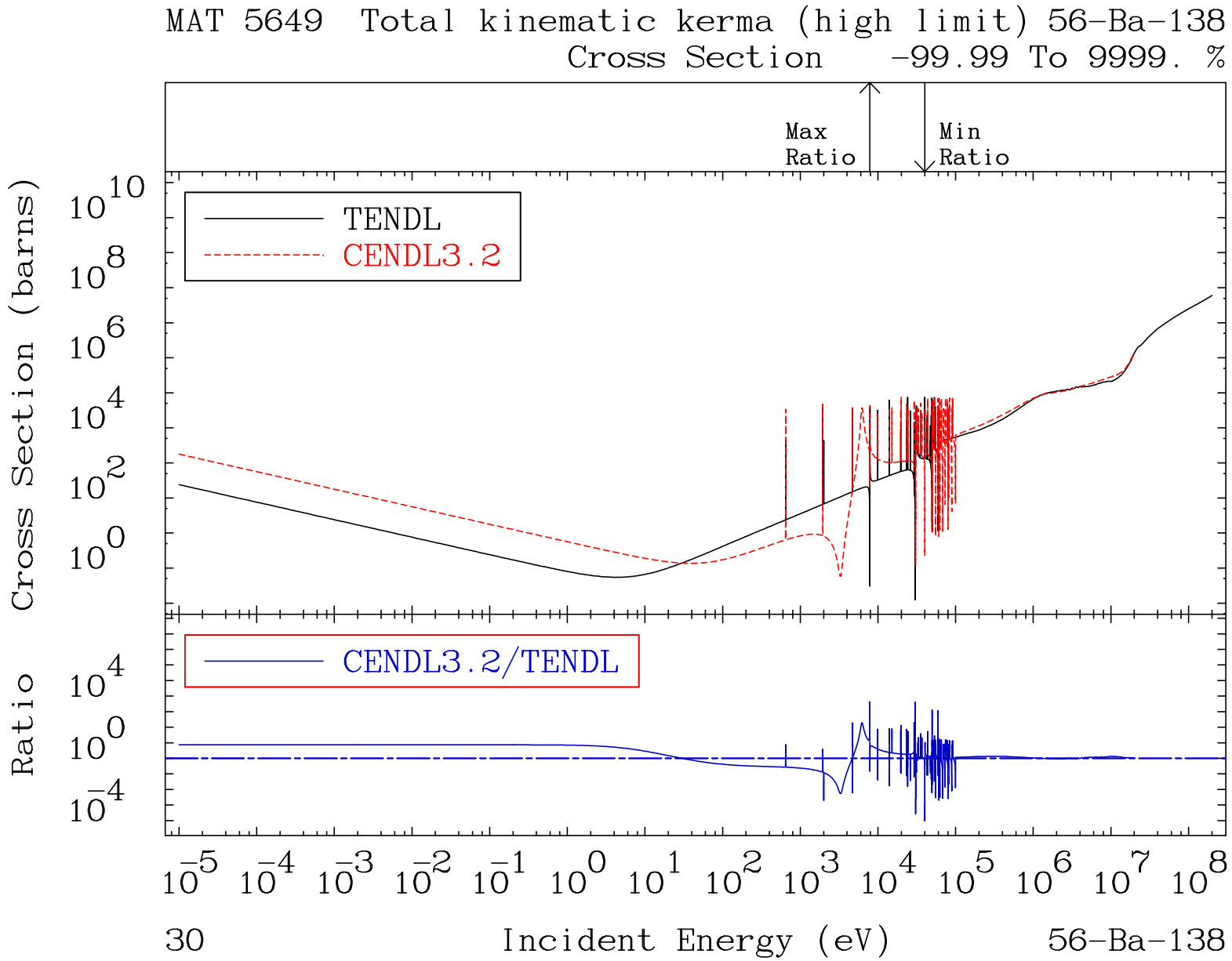

MAT 5649 Kerma non-elastic (all but mt2) 56-Ba-138
Cross Section -68.25 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
25
56-Ba-138

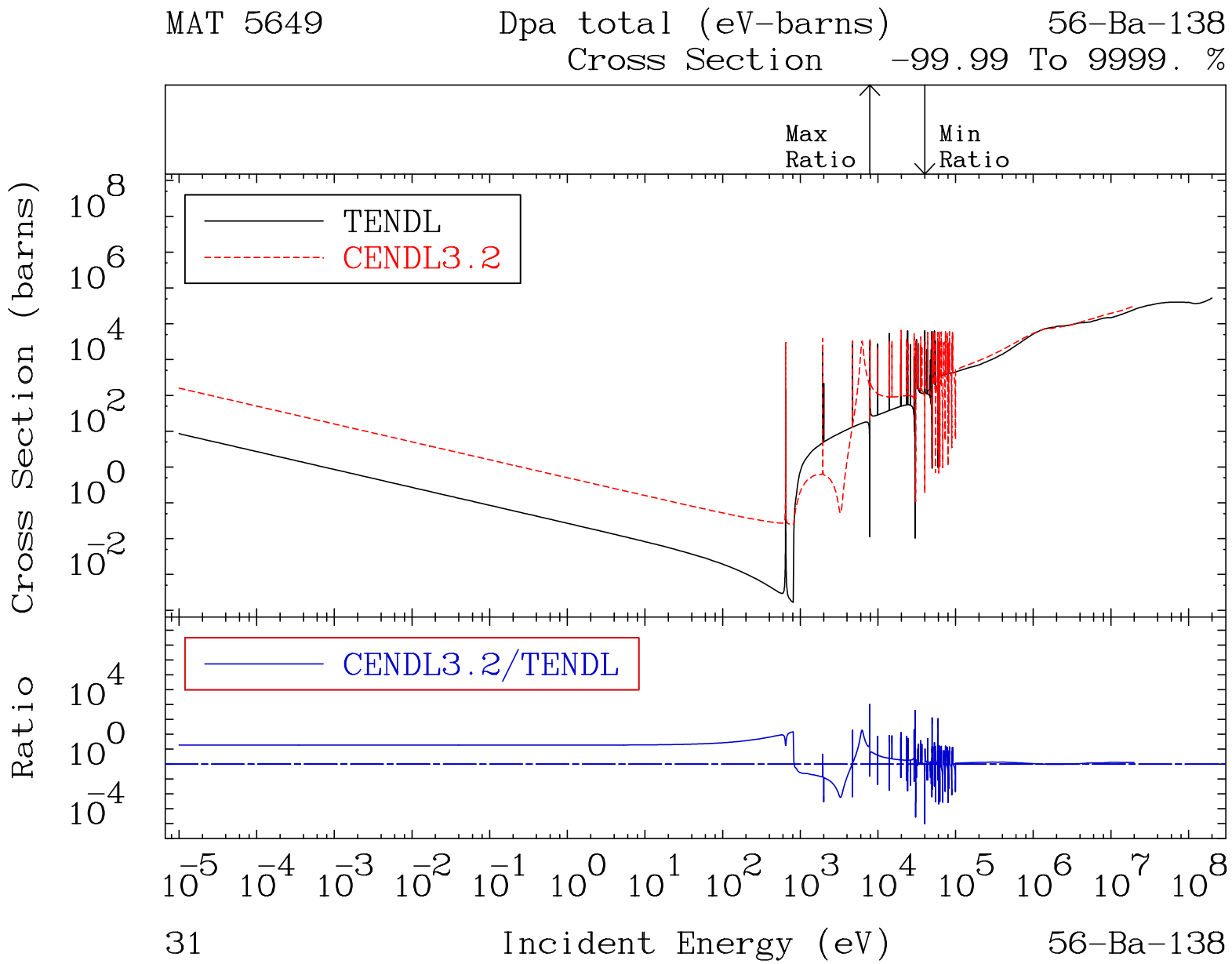

MAT 5649
Kerma inelastic (mt51-91)
56-Ba-138
Cross Section 1445. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4463 MeV
CENDL3.2 Threshold 1.4463 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
56-Ba-138

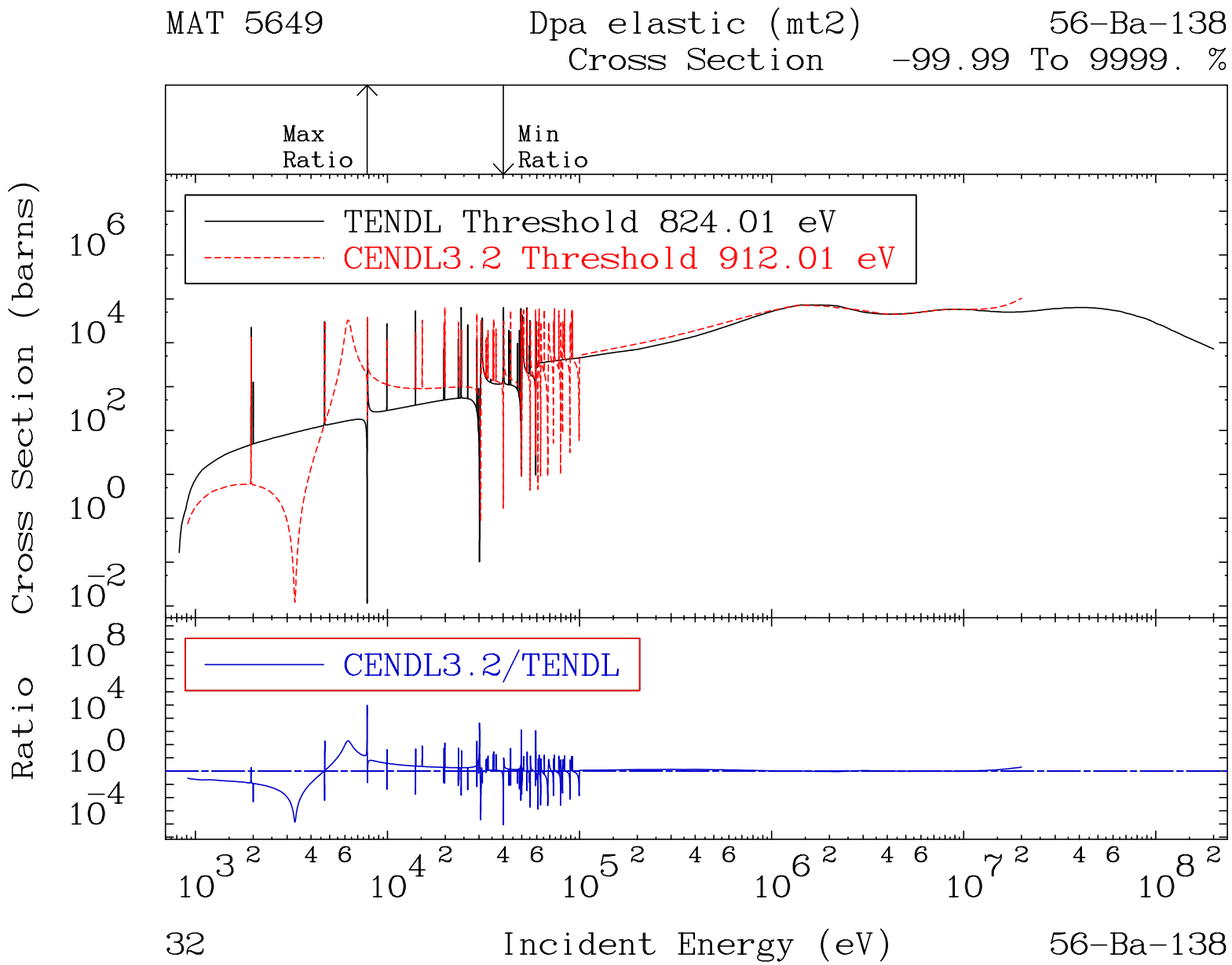

MAT 5649 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-138
Cross Section 1445. To 9999. %
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{12}
10^{8}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
27
Incident Energy (eV)
56-Ba-138

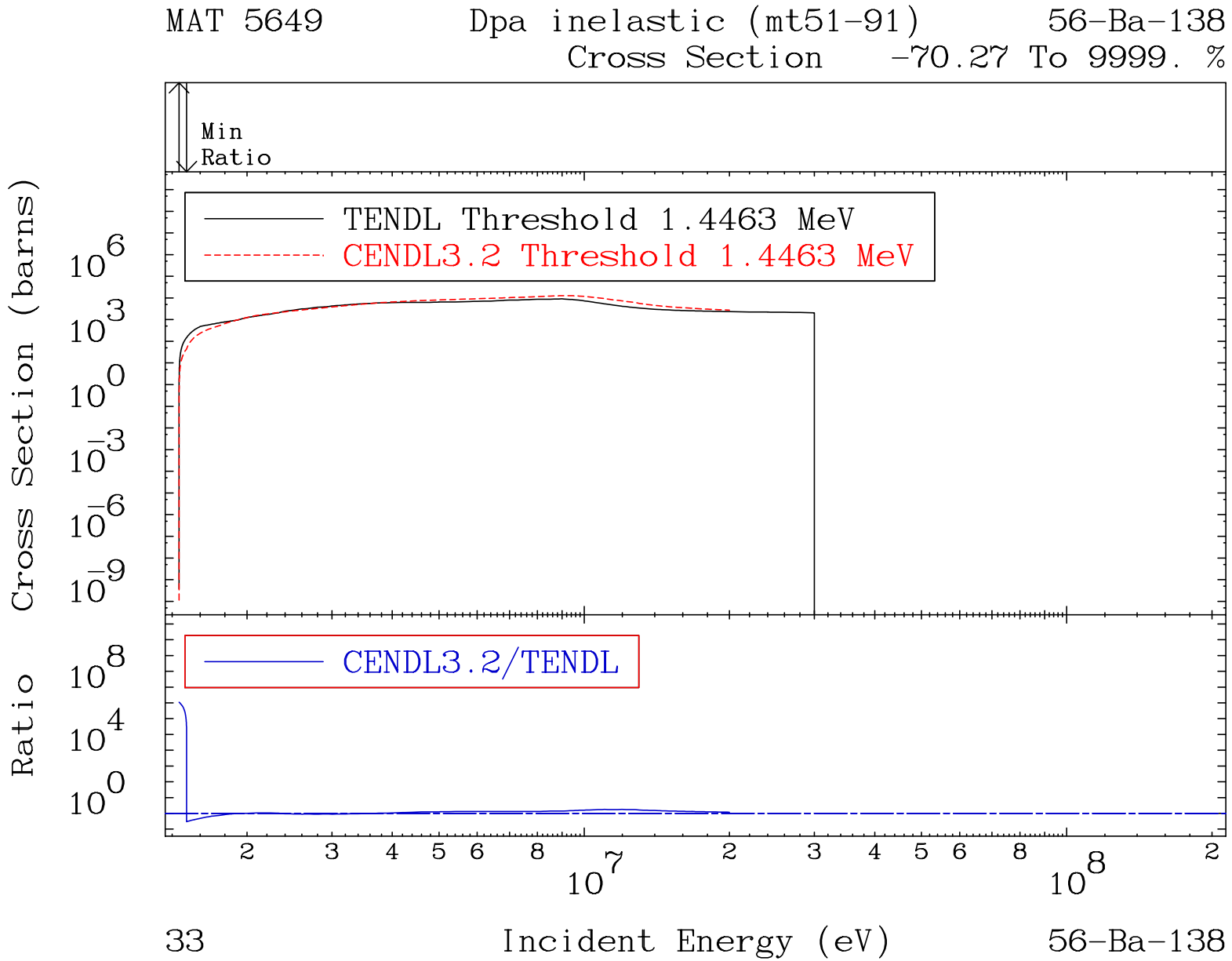

MAT 5649
Kerma capture (mt102)
56-Ba-138
Cross Section -68.25 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
56-Ba-138

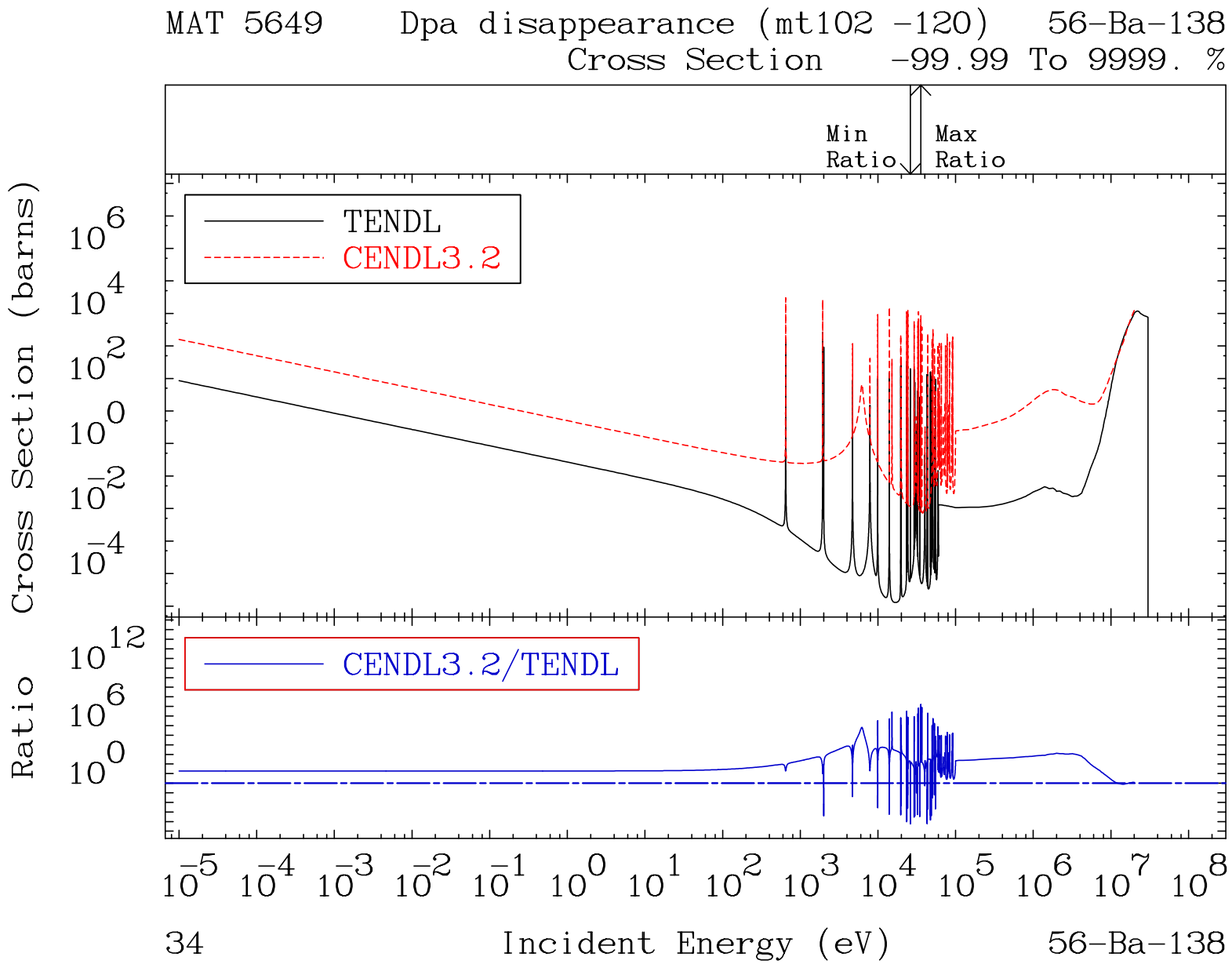

MAT 5649
Total photon (eV-barns)
56-Ba-138
Cross Section -68.25 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Giga-barns)
Incident Energy (eV)
29
56-Ba-138

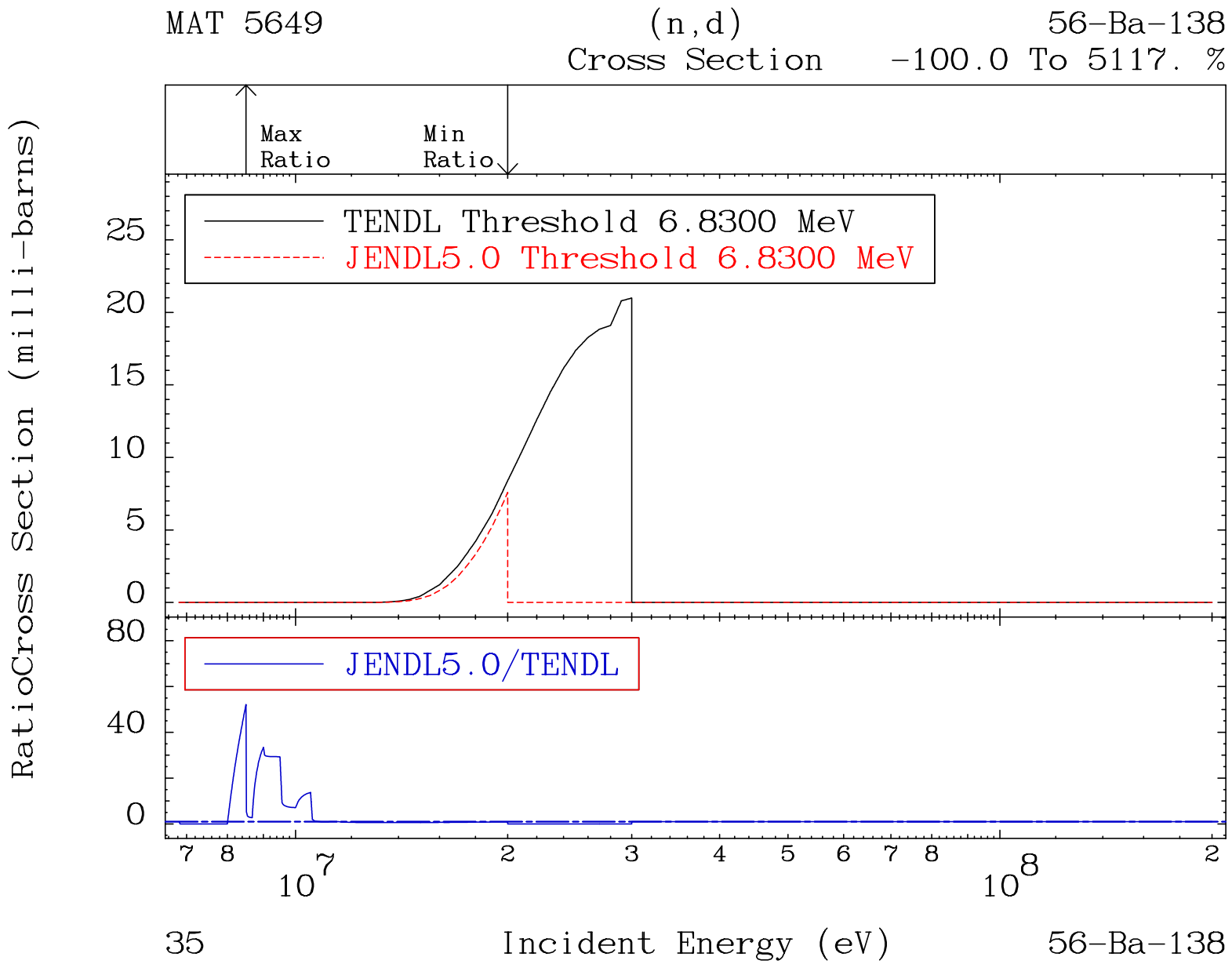

MAT 5649 Total kinematic kerma (high limit) 56-Ba-138
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
30
56-Ba-138

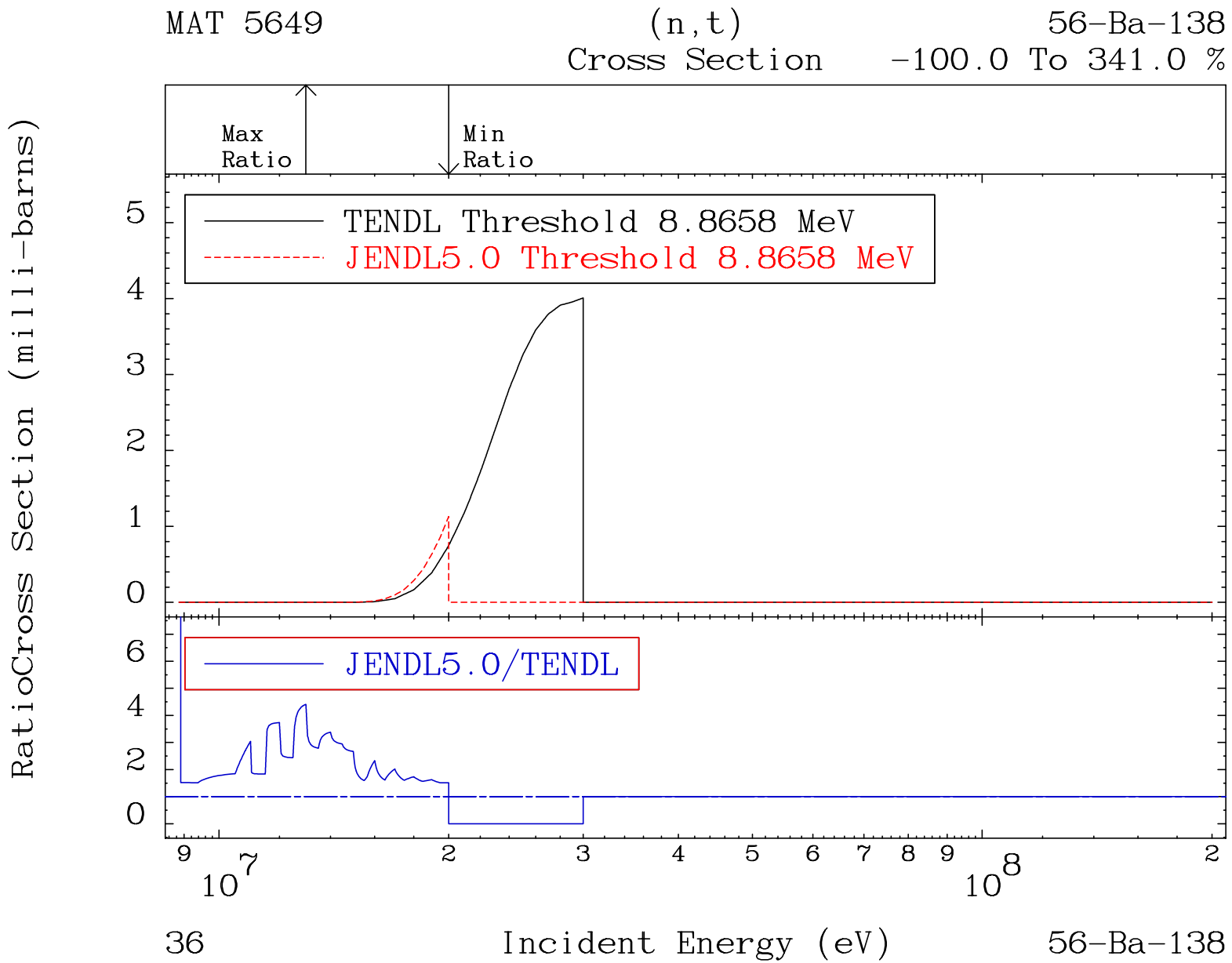

MAT 5649
Dpa total (eV-barns)
56-Ba-138
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
56-Ba-138

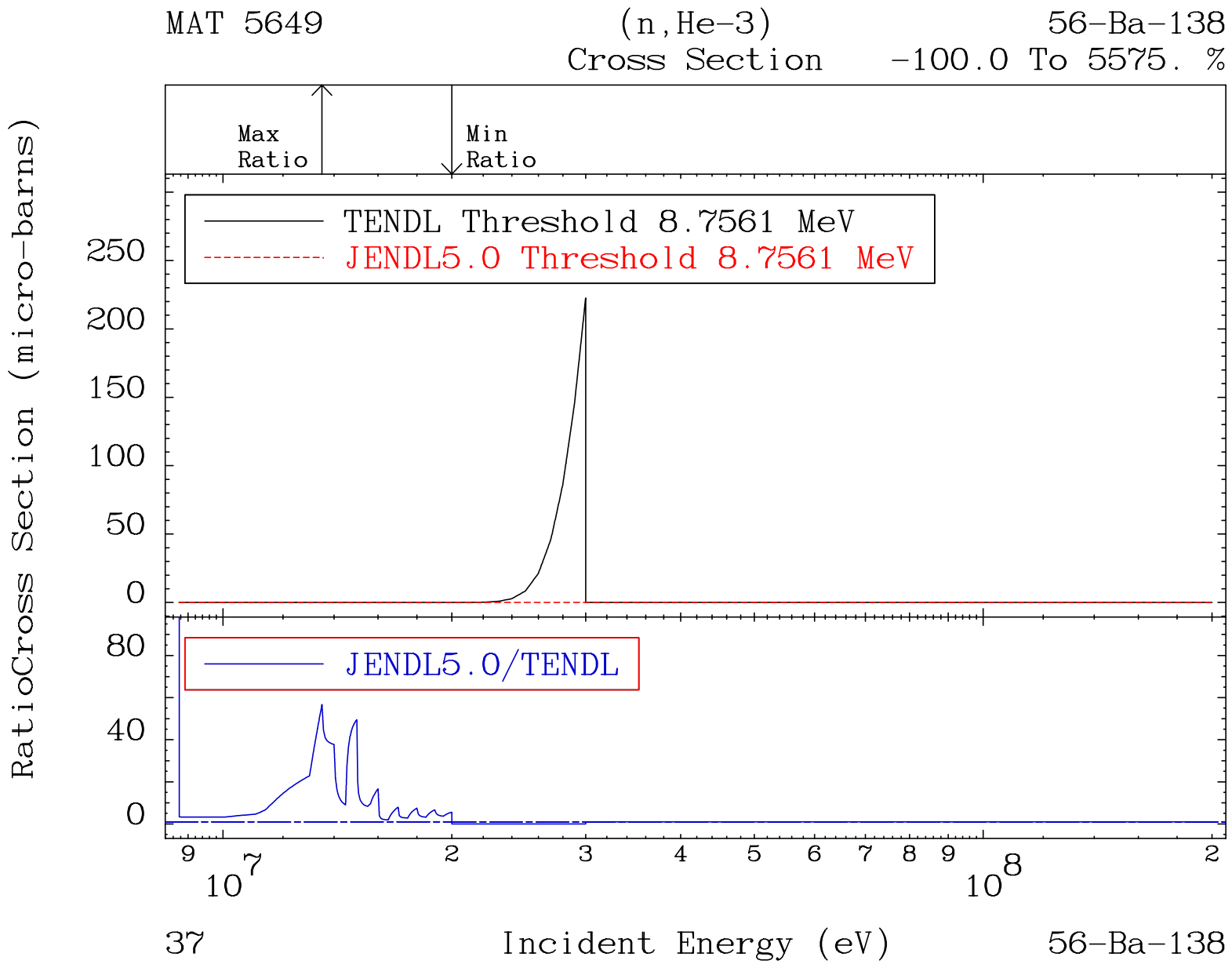

MAT 5649
Dpa elastic (mt2)
Cross Section
56-Ba-138
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 824.01 eV
CENDL3.2 Threshold 912.01 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
56-Ba-138

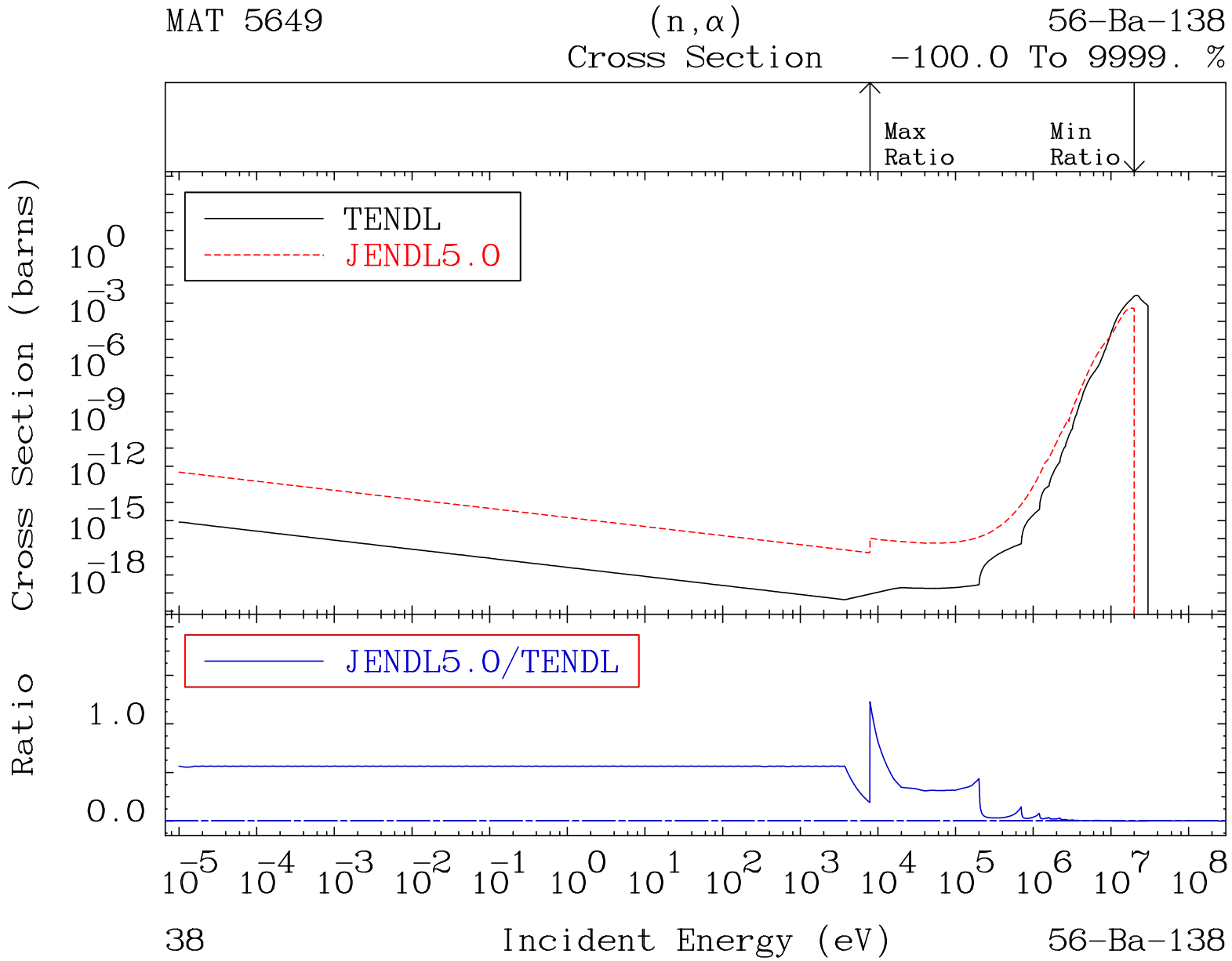

MAT 5649
Dpa inelastic (mt51-91)
56-Ba-138
Cross Section -70.27 To 9999. %
Min Ratio
TENDL Threshold 1.4463 MeV
CENDL3.2 Threshold 1.4463 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
56-Ba-138

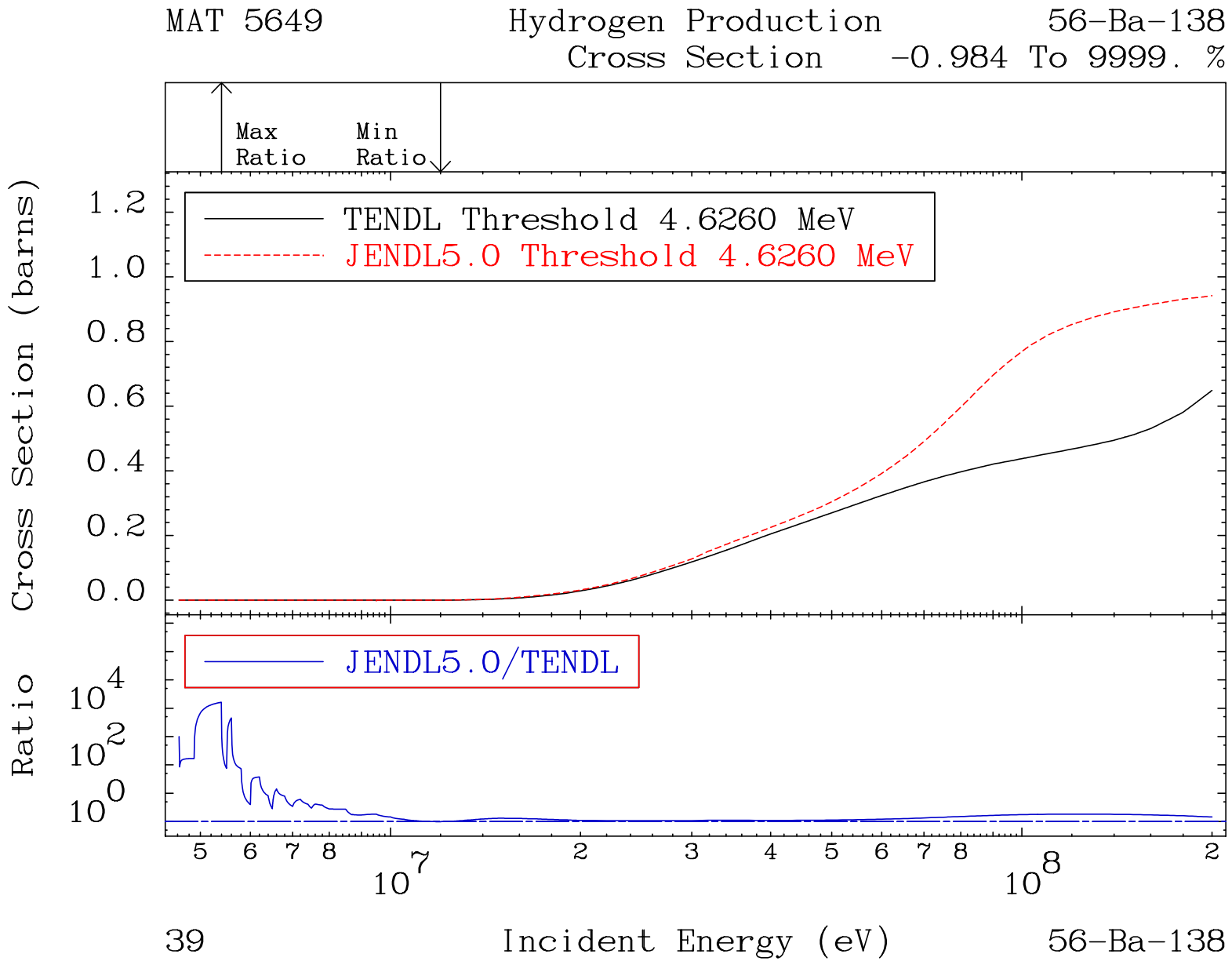

MAT 5649 Dpa disappearance (mt102 -120) 56-Ba-138
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
56-Ba-138

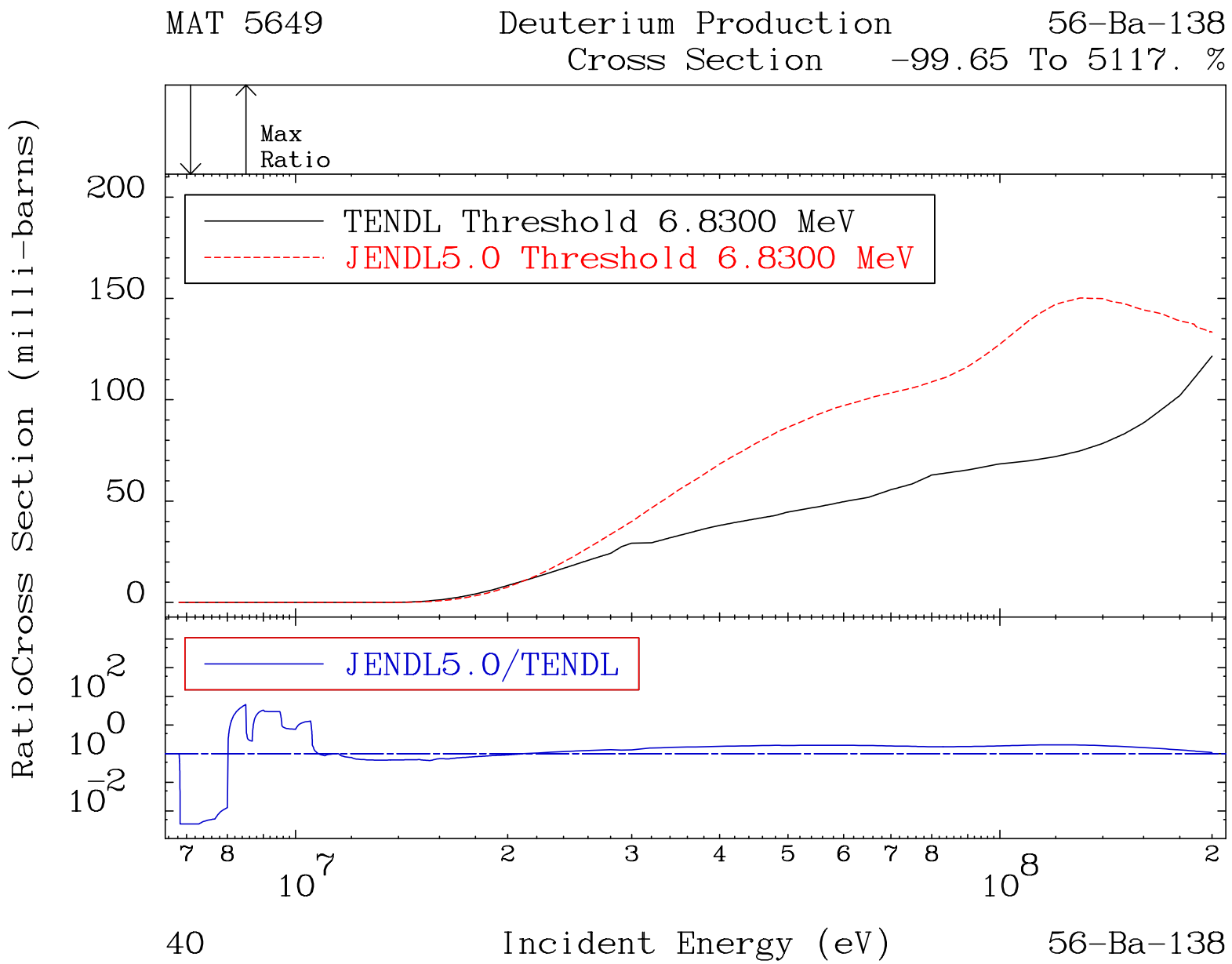

MAT 5649
(n,d)
56-Ba-138
Cross Section
-100.0 To 5117. %
Max Ratio
Min Ratio
TENDL Threshold 6.8300 MeV
JENDL5.0 Threshold 6.8300 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
80
40
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
56-Ba-138

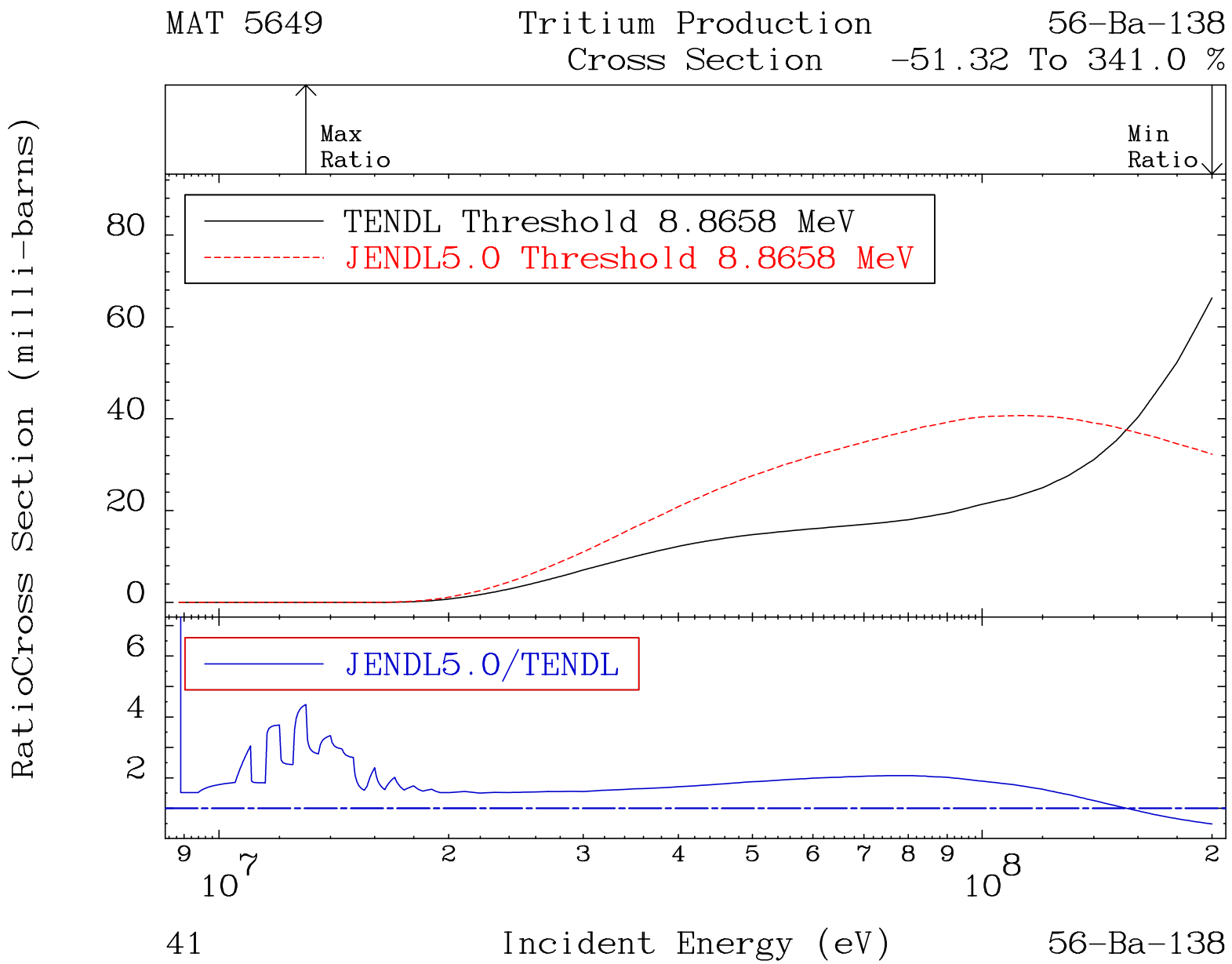

MAT 5649
(n,t)
Cross Section
56-Ba-138
-100.0 To 341.0 %
Max Ratio
Min Ratio
TENDL Threshold 8.8658 MeV
JENDL5.0 Threshold 8.8658 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
56-Ba-138

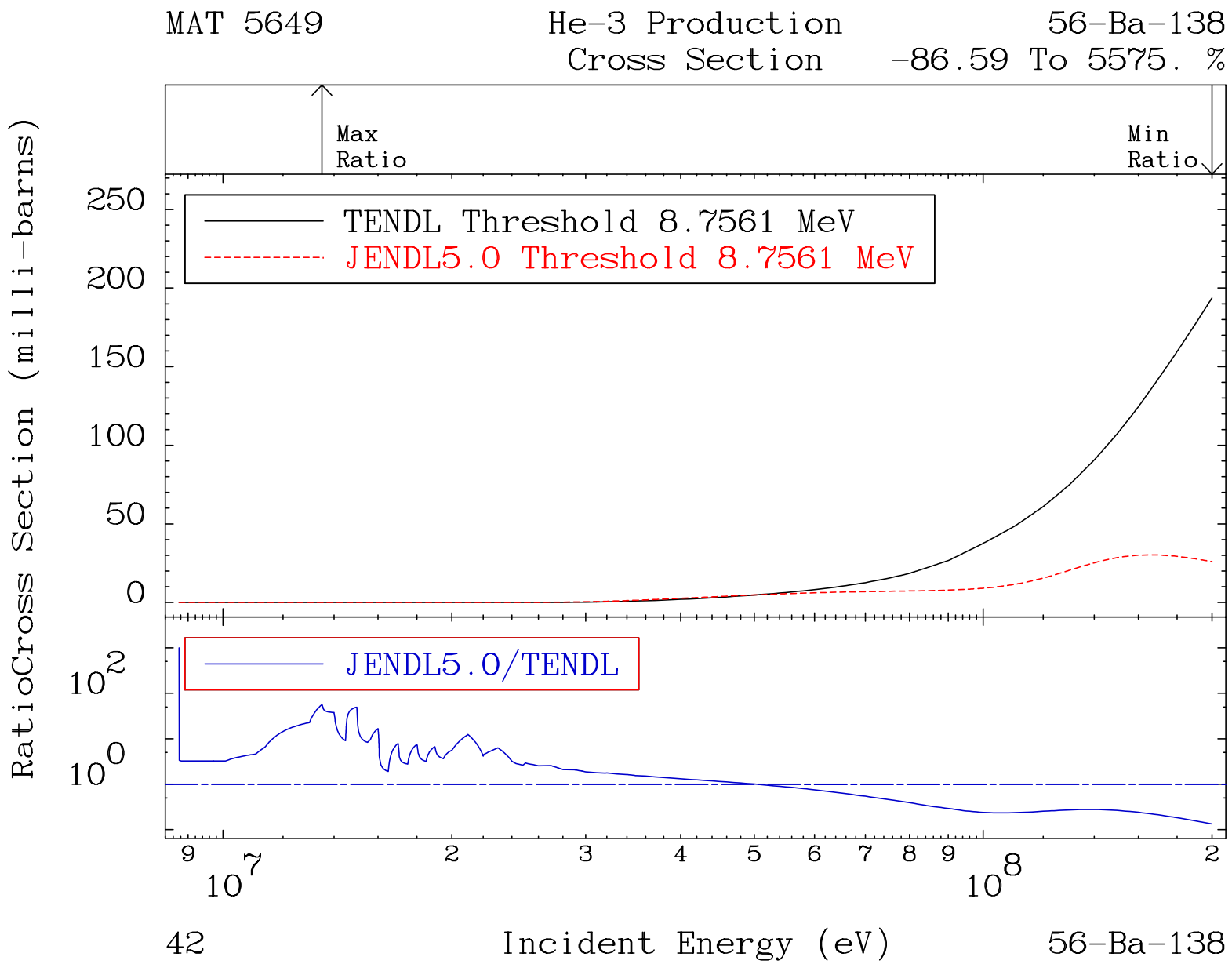

MAT 5649
(n,He-3)
Cross Section
56-Ba-138
-100.0 To 5575. %
Max Ratio
Min Ratio
TENDL Threshold 8.7561 MeV
JENDL5.0 Threshold 8.7561 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
80
40
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
56-Ba-138

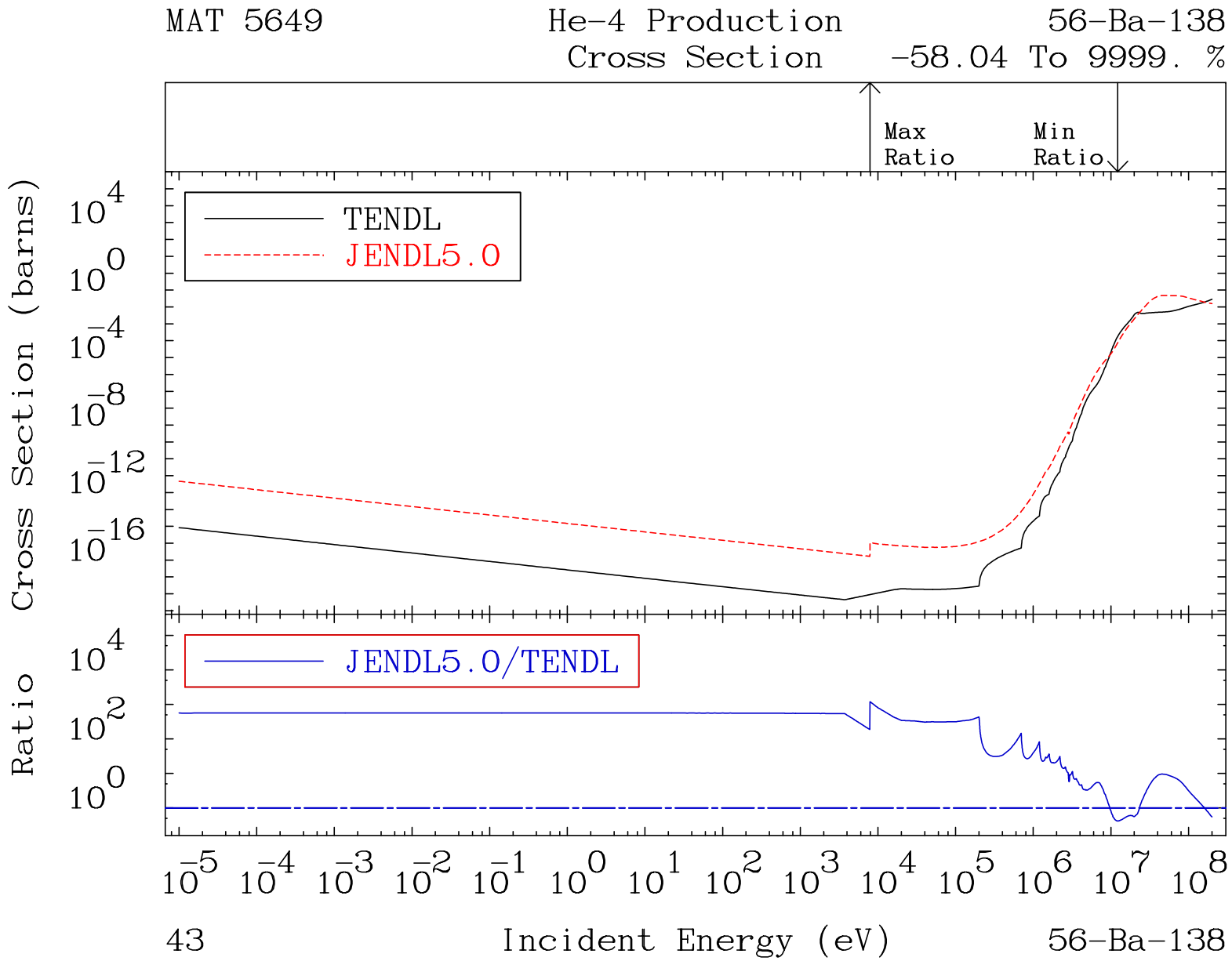

MAT 5649
(n,α)
56-Ba-138
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
10^-18
JENDL5.0/TENDL
Ratio
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
56-Ba-138

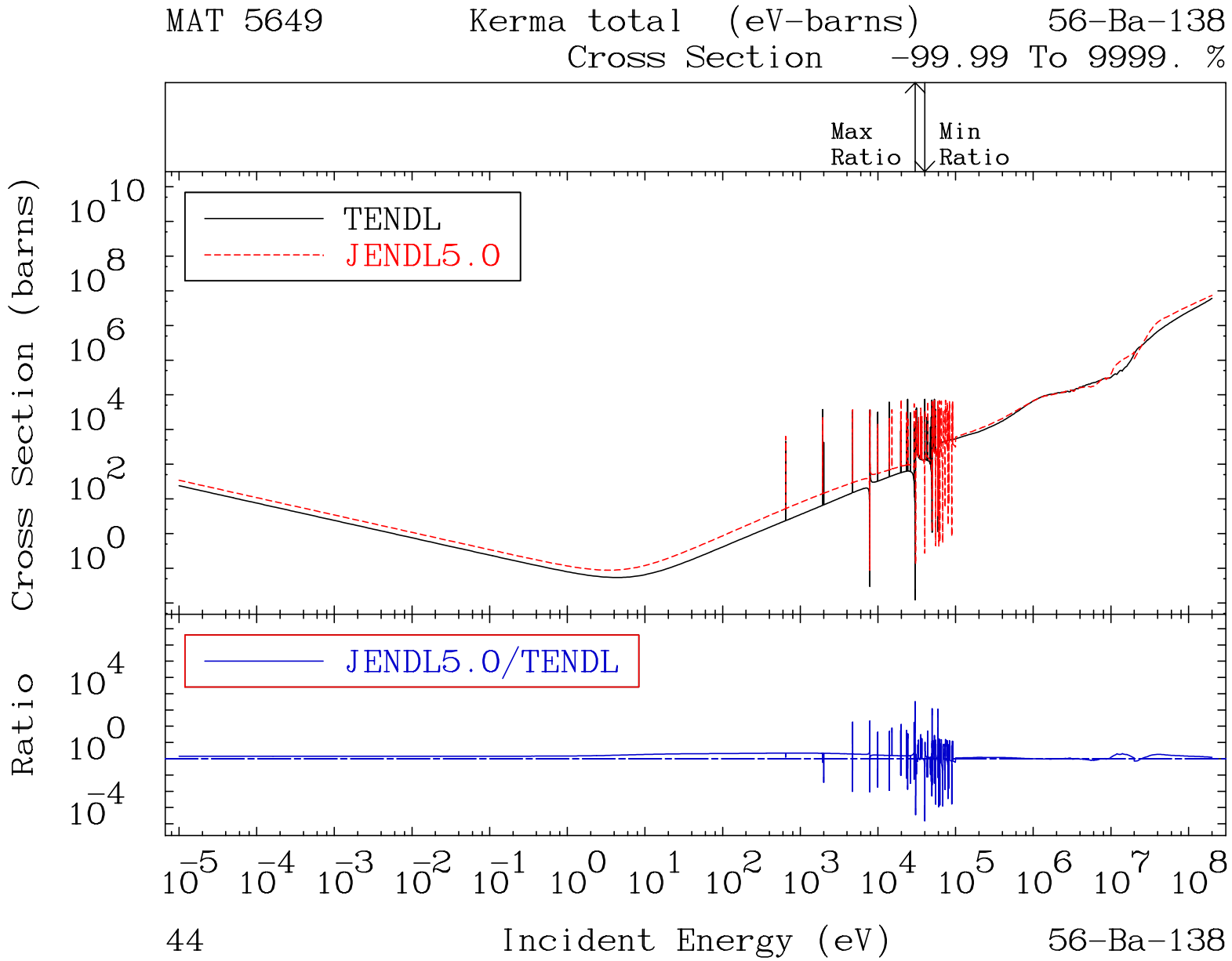

MAT 5649
Hydrogen Production
56-Ba-138
Cross Section
-0.984 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.6260 MeV
JENDL5.0 Threshold 4.6260 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
10^4
10^2
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
56-Ba-138

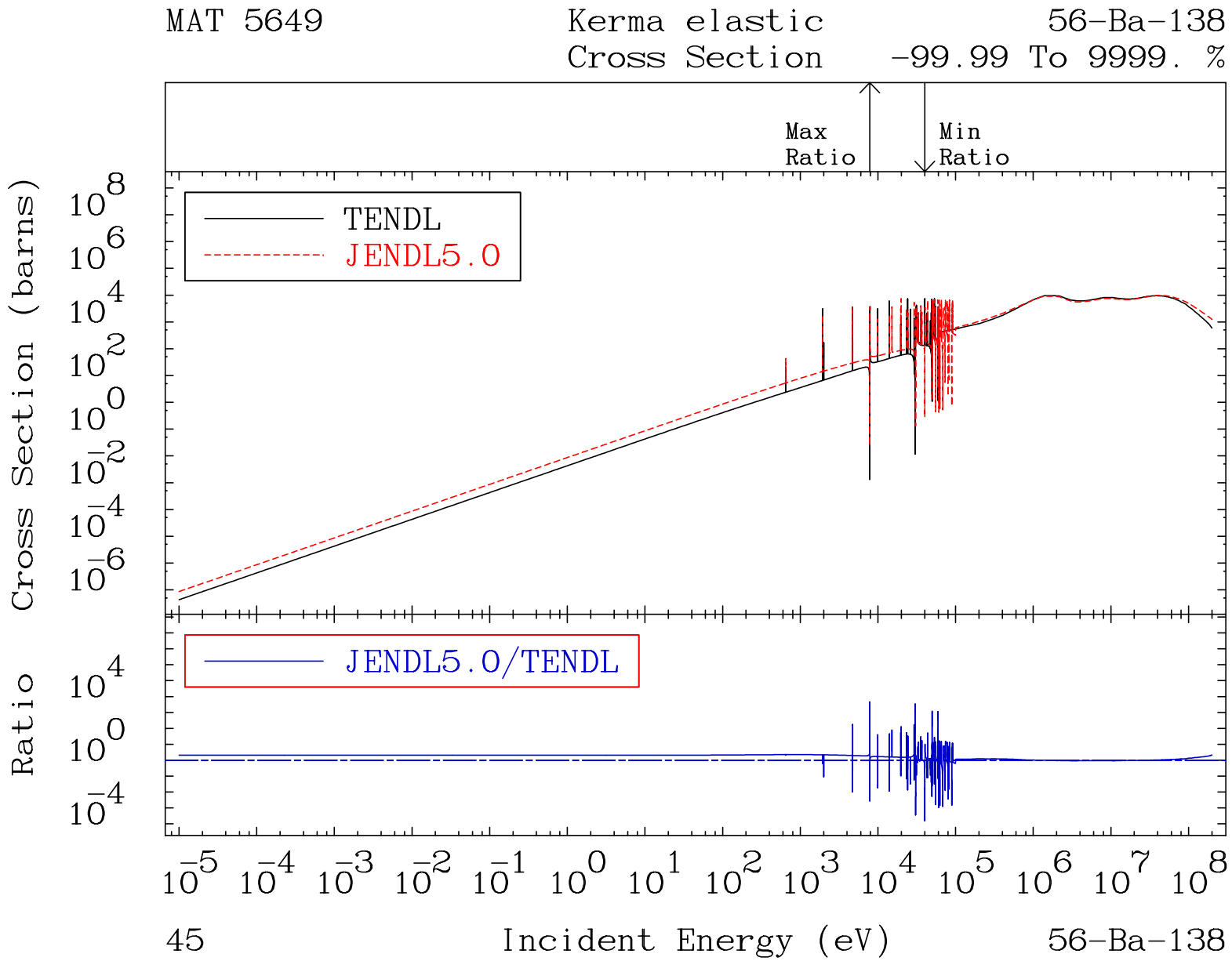

MAT 5649
Deuterium Production
56-Ba-138
Cross Section -99.65 To 5117. %
Max
Ratio
TENDL Threshold 6.8300 MeV
JENDL5.0 Threshold 6.8300 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^{2}
10^{0}
10^{-2}
7 8
10^{7}
2 3 4 5 6 7 8
10^{8}
2
40
Incident Energy (eV)
56-Ba-138

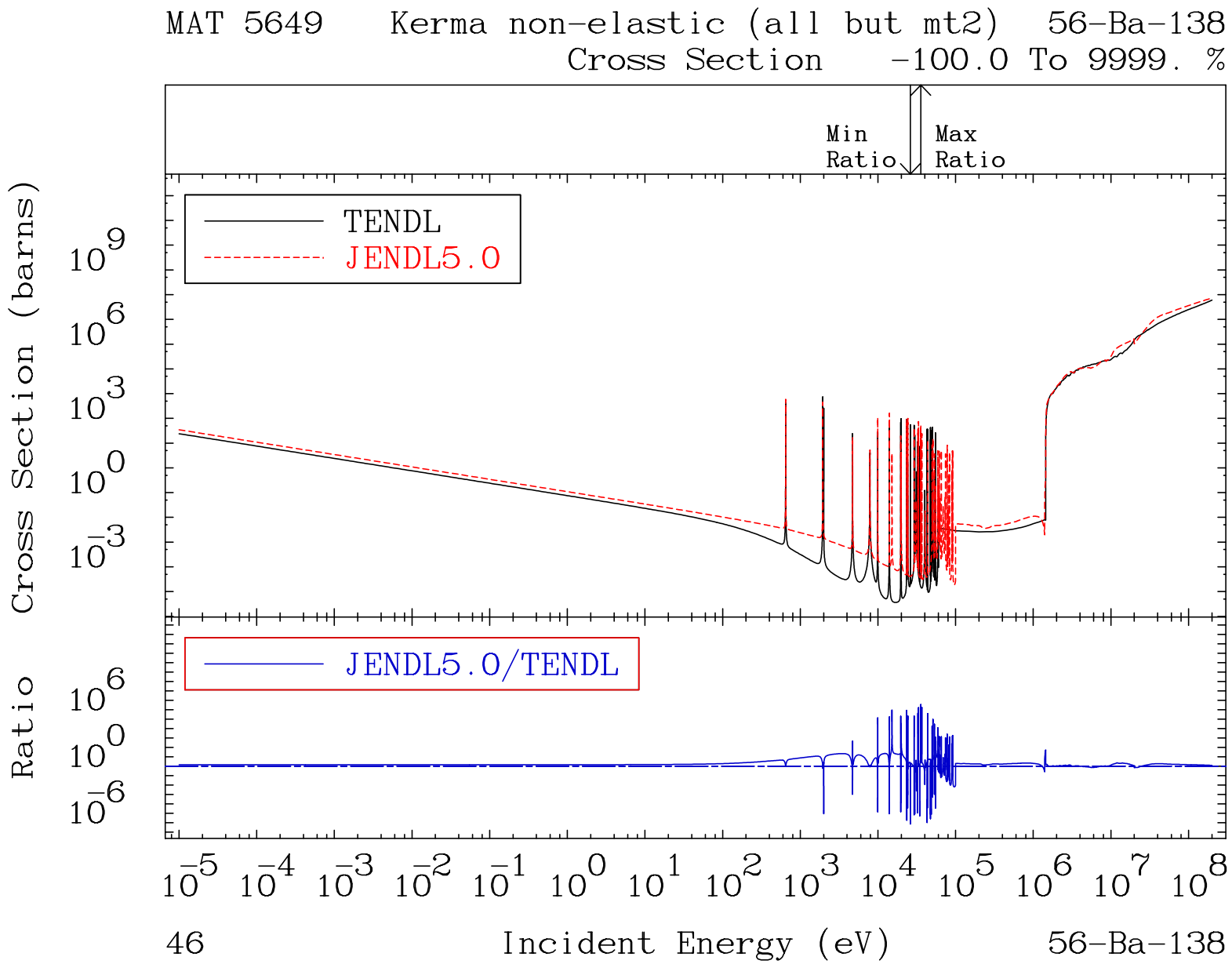

MAT 5649
Tritium Production
Cross Section
56-Ba-138
-51.32 To 341.0 %
Max Ratio
Min Ratio
TENDL Threshold 8.8658 MeV
JENDL5.0 Threshold 8.8658 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
6
4
2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
56-Ba-138

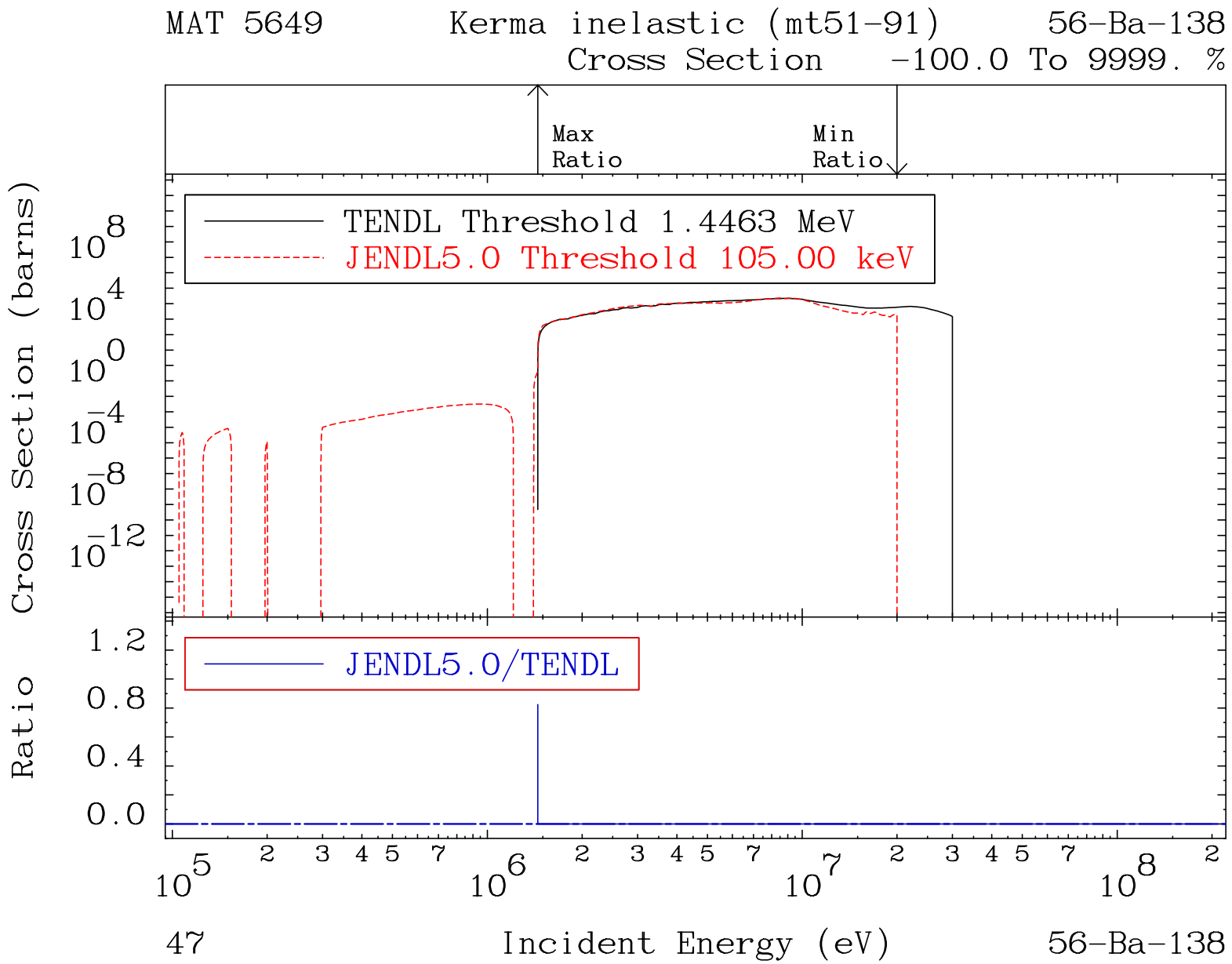

MAT 5649
He-3 Production
Cross Section
56-Ba-138
-86.59 To 5575. %
Max Ratio
Min Ratio
TENDL Threshold 8.7561 MeV
JENDL5.0 Threshold 8.7561 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
56-Ba-138

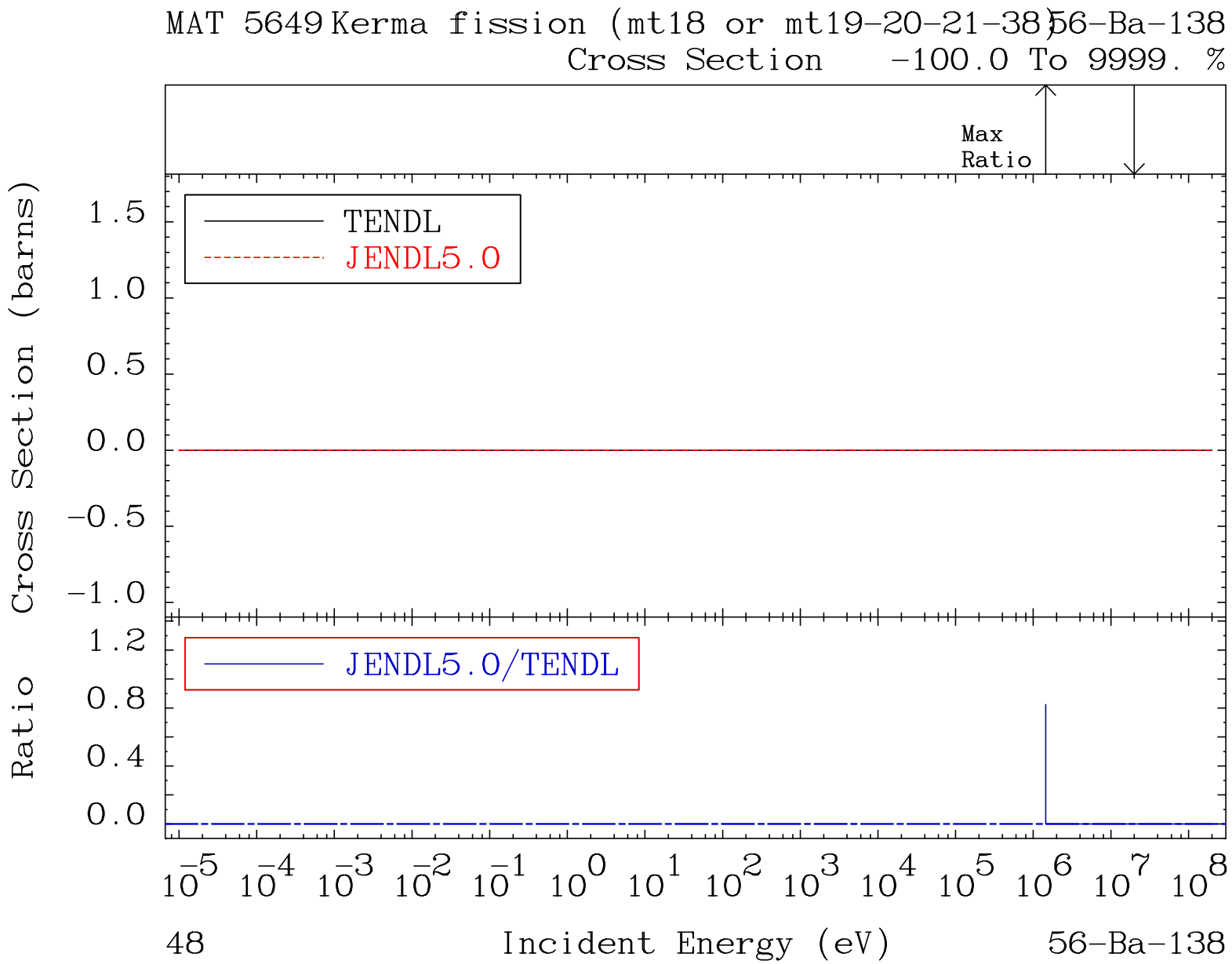

MAT 5649
He-4 Production
Cross Section
56-Ba-138
-58.04 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
56-Ba-138

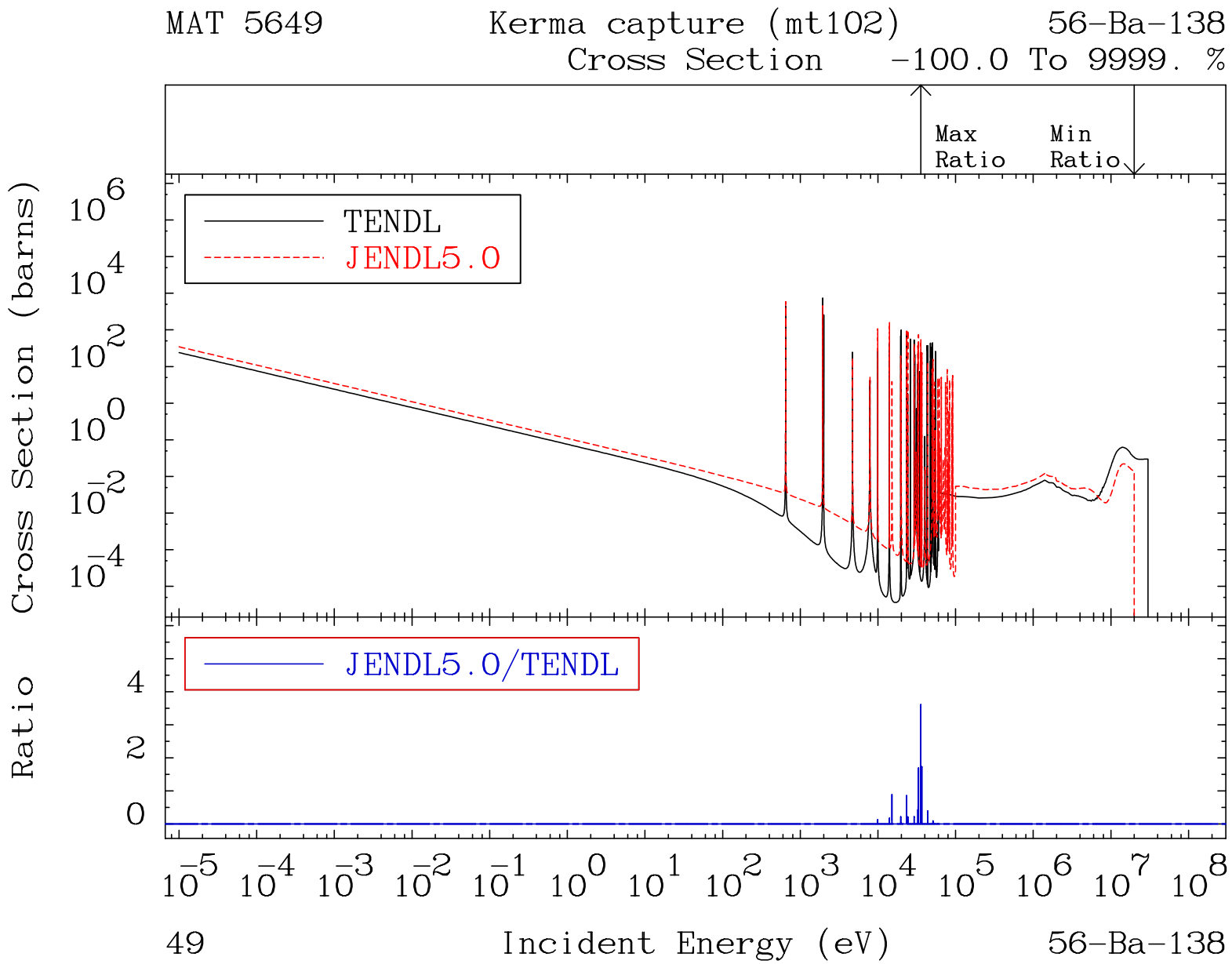

MAT 5649
Kerma total (eV-barns)
56-Ba-138
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
56-Ba-138

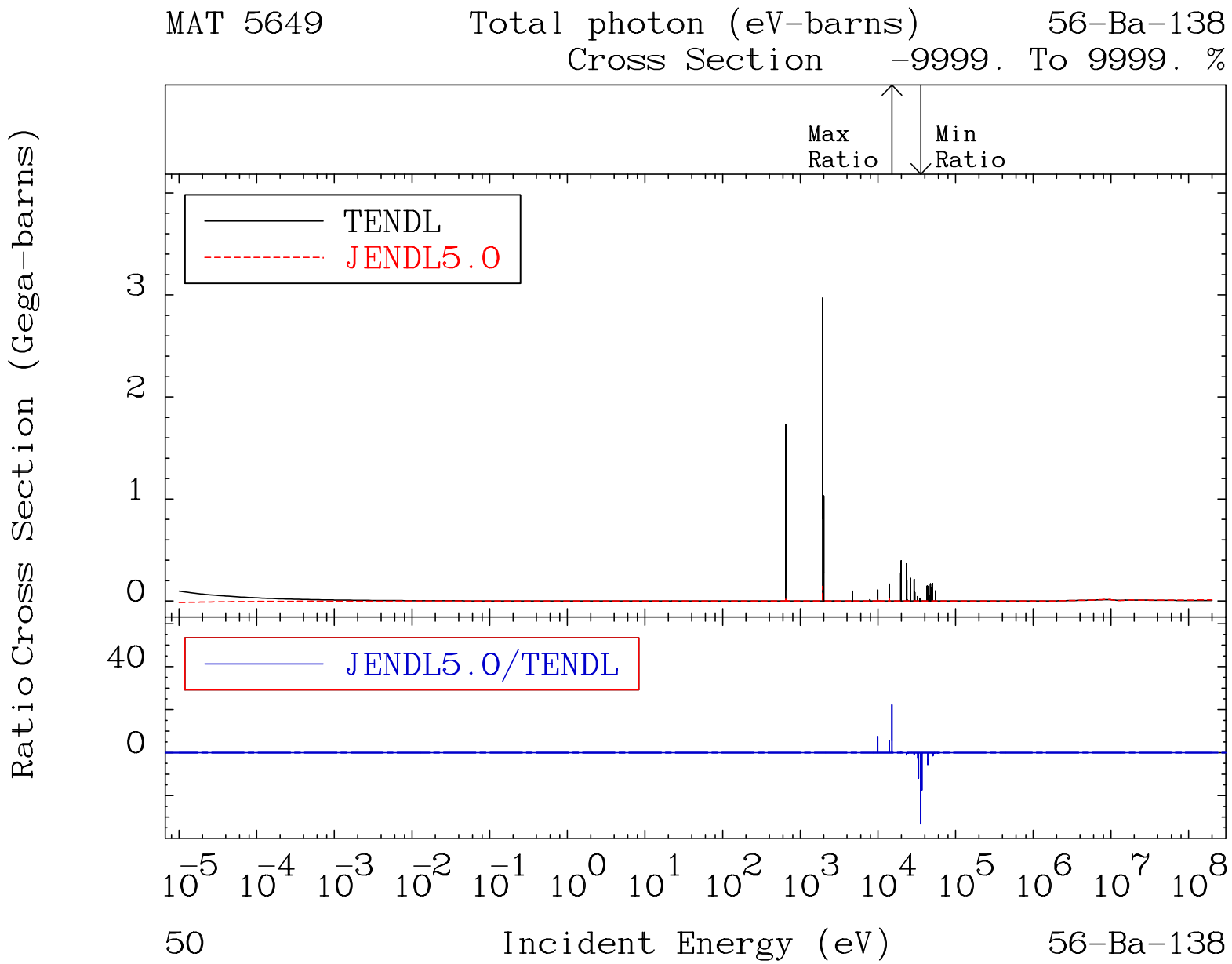

MAT 5649
Kerma elastic
Cross Section
56-Ba-138
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
56-Ba-138

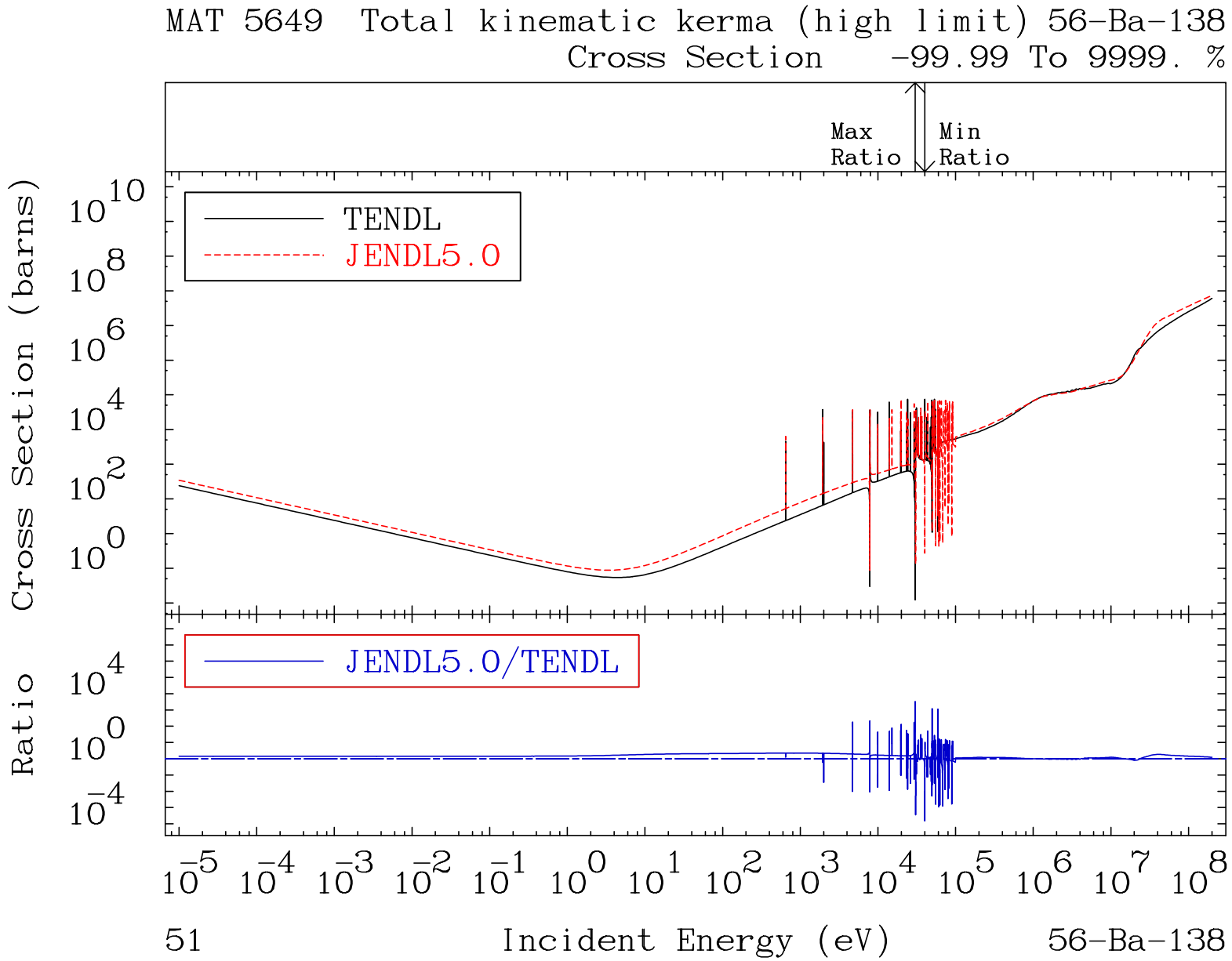

MAT 5649 Kerma non-elastic (all but mt2) 56-Ba-138
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
56-Ba-138

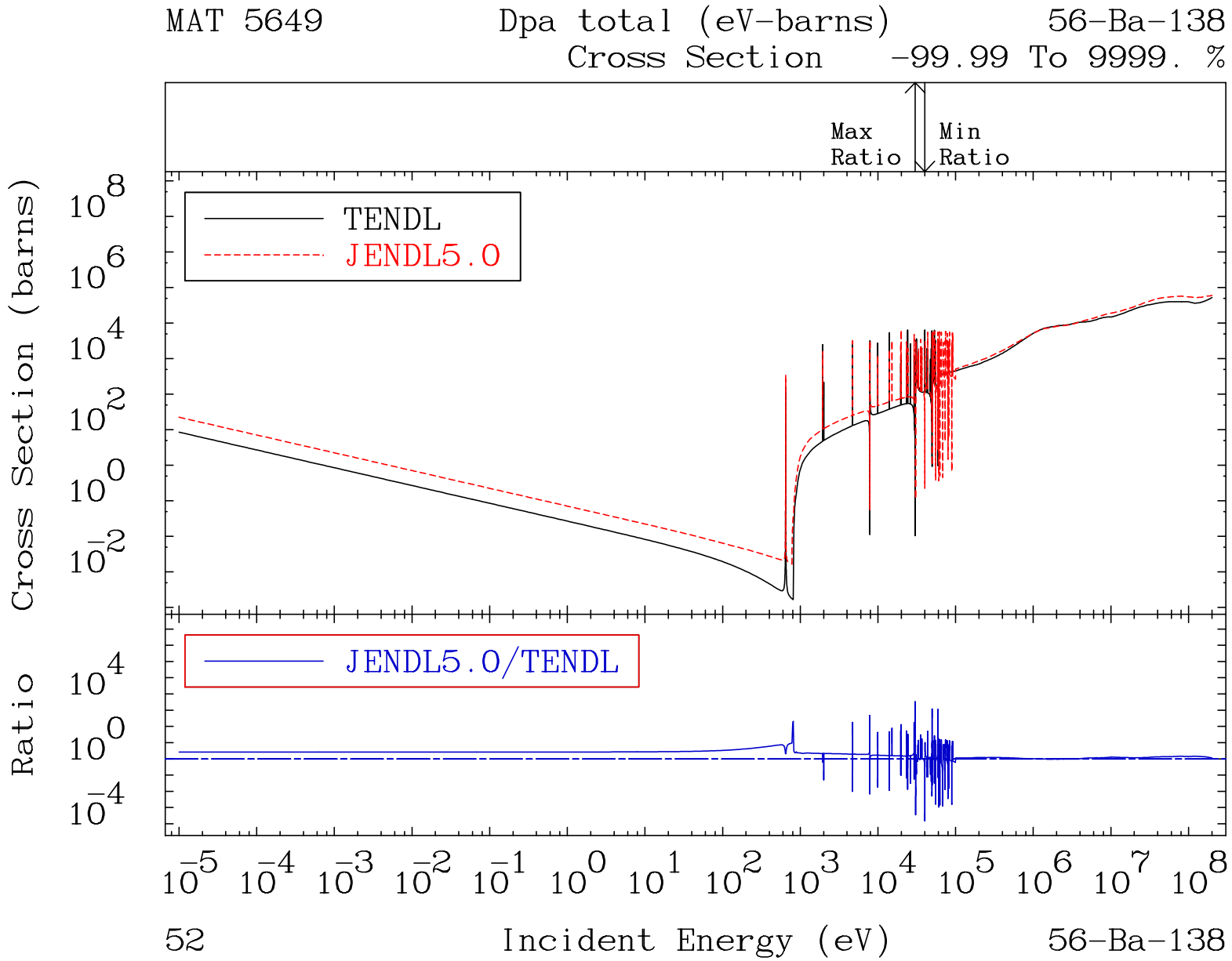

MAT 5649
Kerma inelastic (mt51-91)
56-Ba-138
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4463 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
56-Ba-138

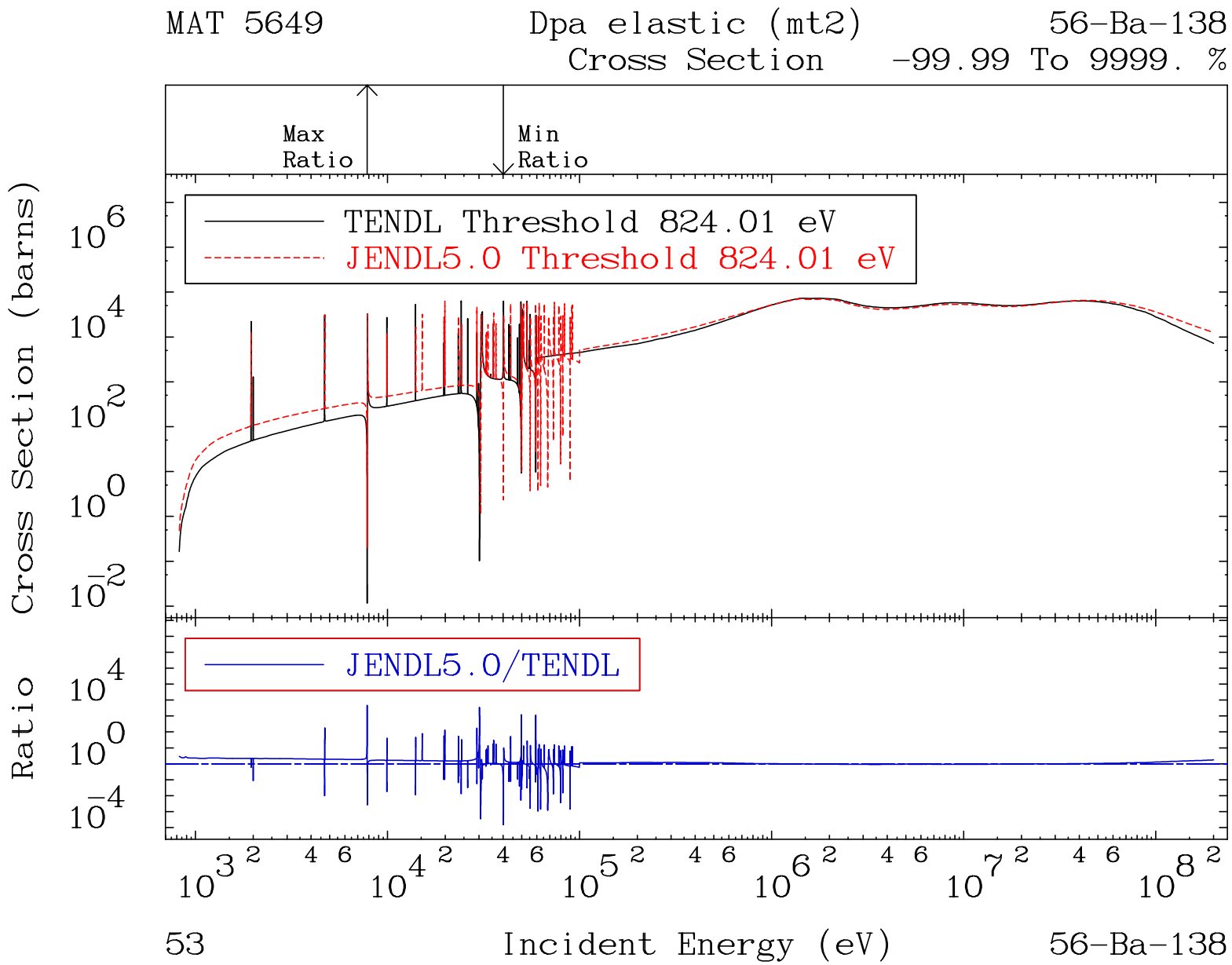

MAT 5649 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-138
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
48
Incident Energy (eV)
56-Ba-138

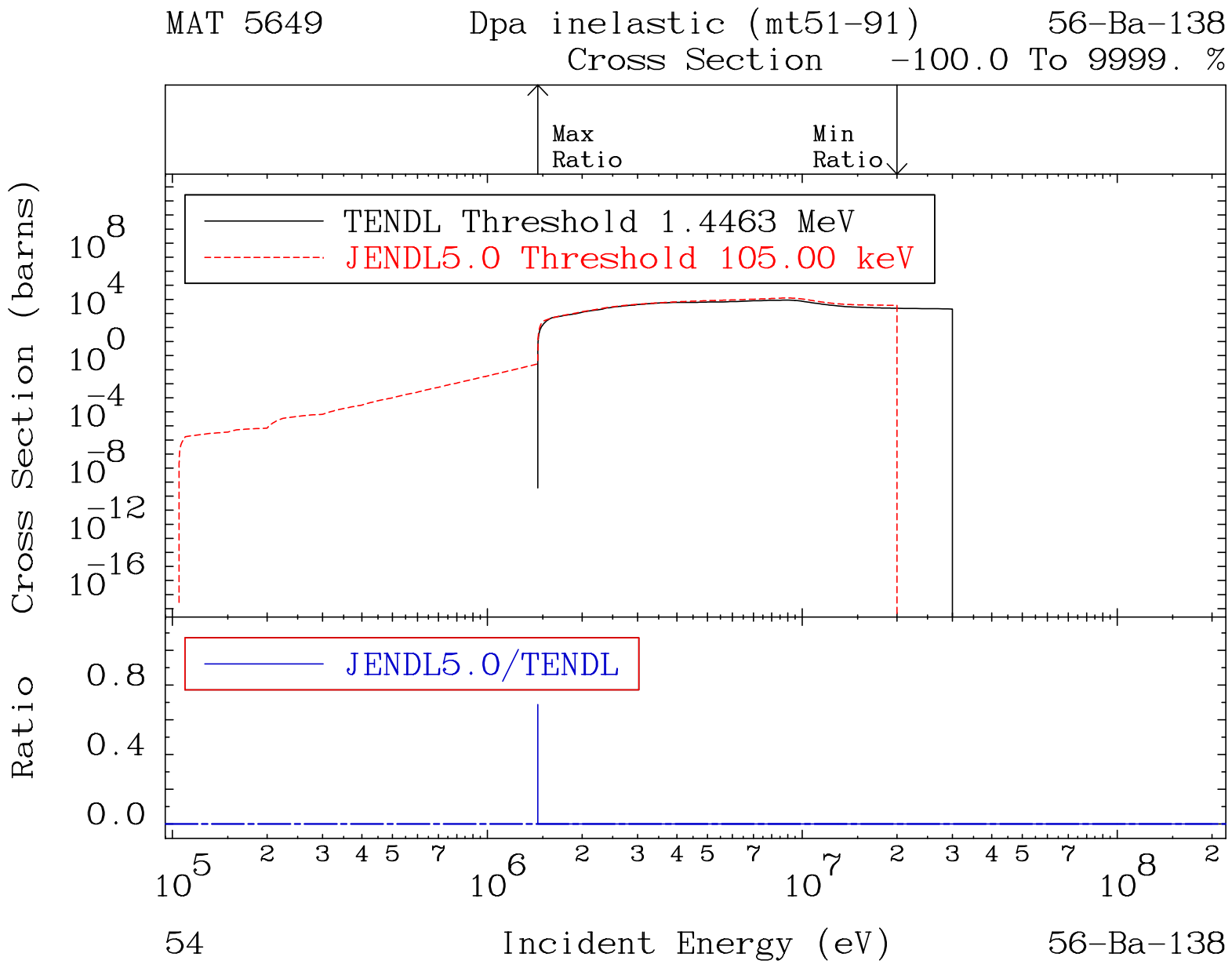

MAT 5649
Kerma capture (mt102)
56-Ba-138
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
56-Ba-138

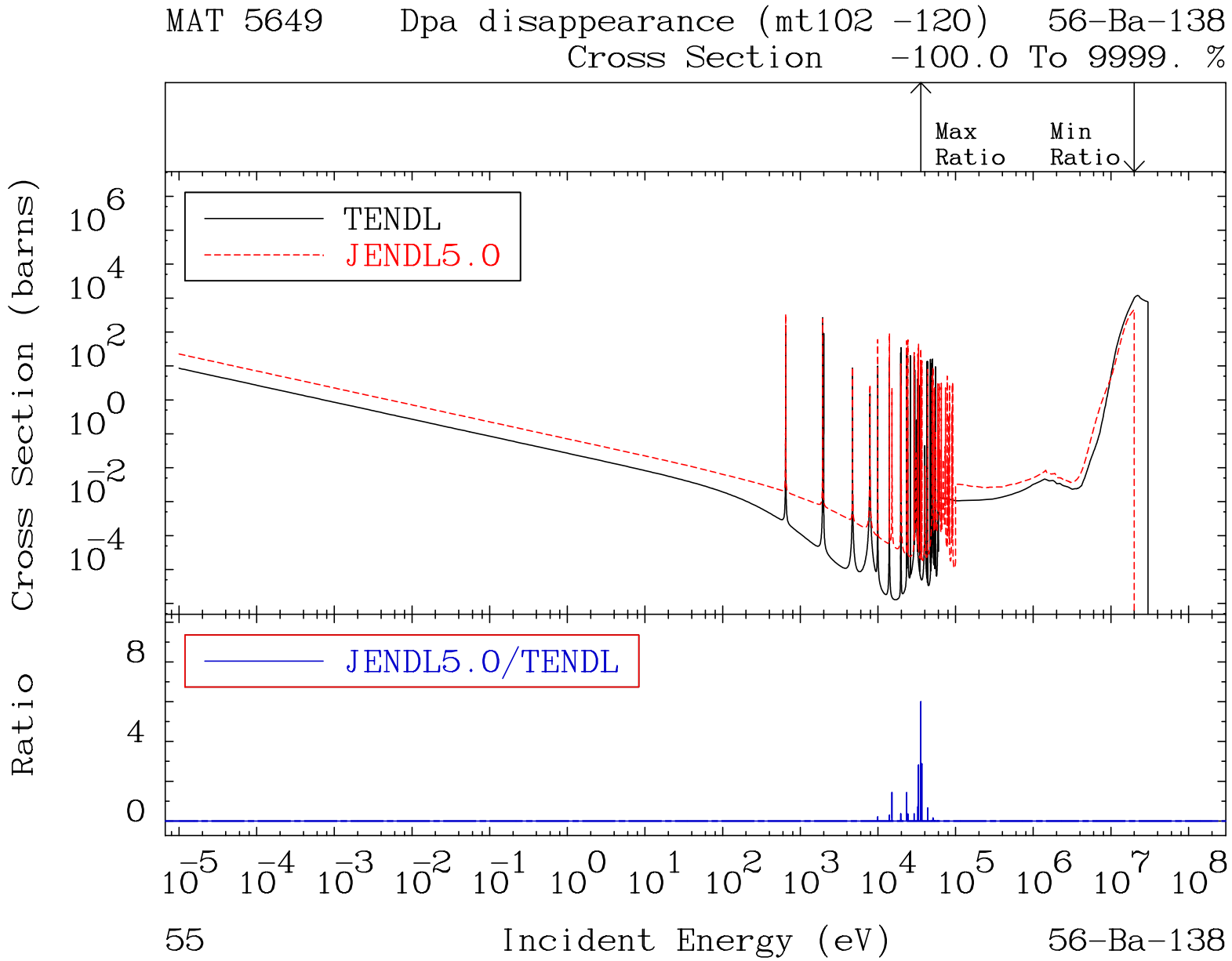

MAT 5649
Total photon (eV-barns)
56-Ba-138
Cross Section -9999. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Giga-barns)
Incident Energy (eV)
50
56-Ba-138

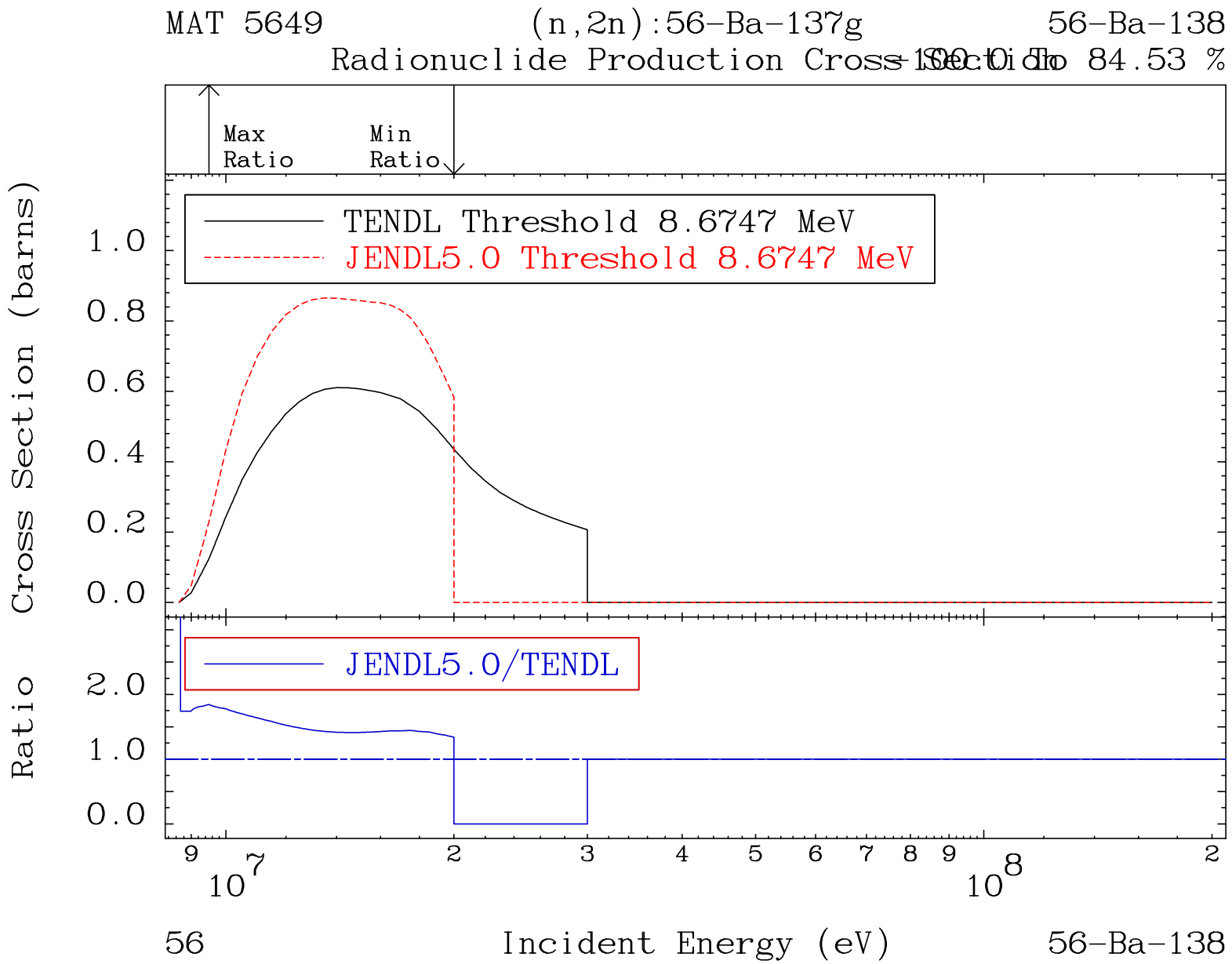

MAT 5649 Total kinematic kerma (high limit) 56-Ba-138
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
56-Ba-138

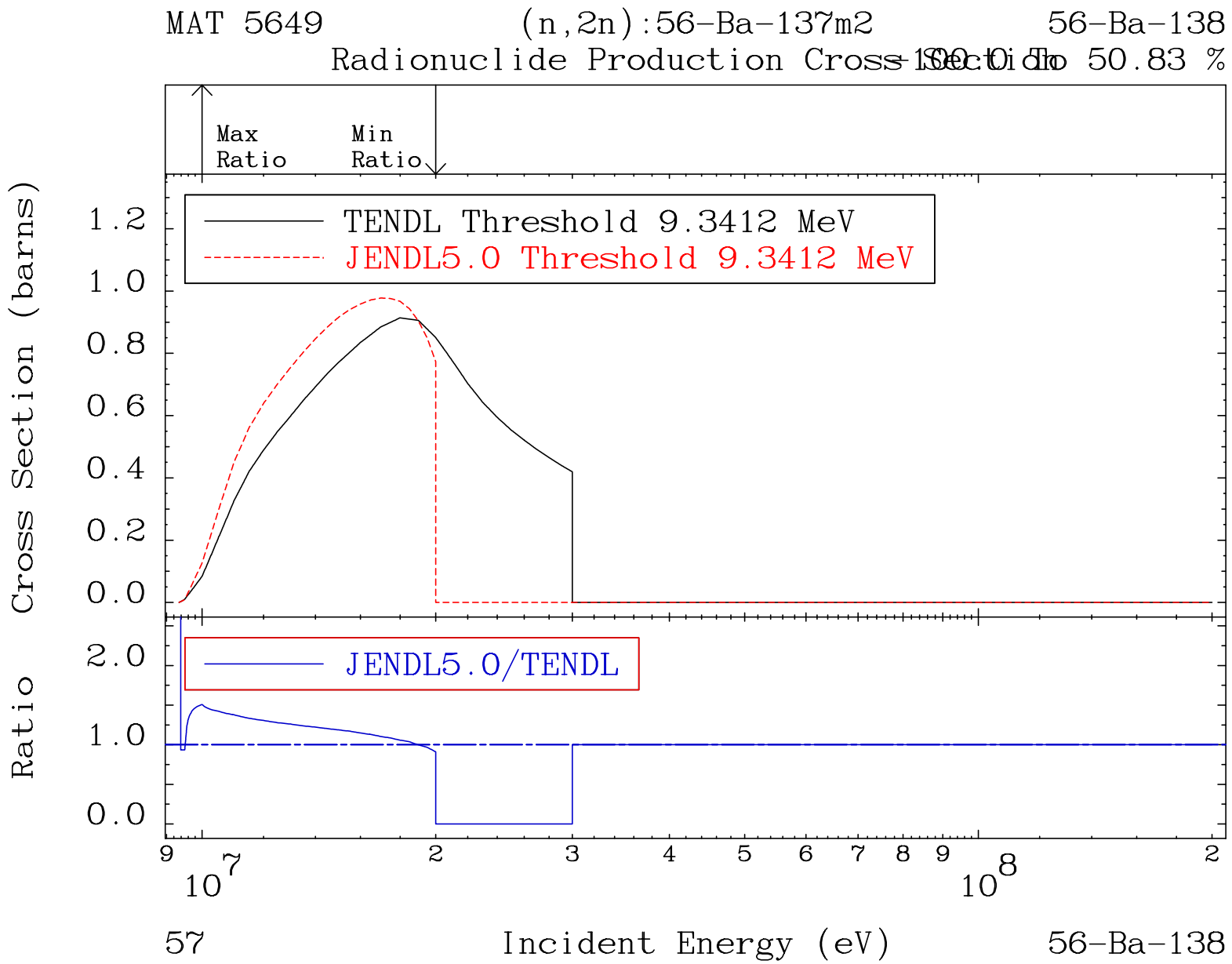

MAT 5649
Dpa total (eV-barns)
56-Ba-138
Cross Section
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
56-Ba-138

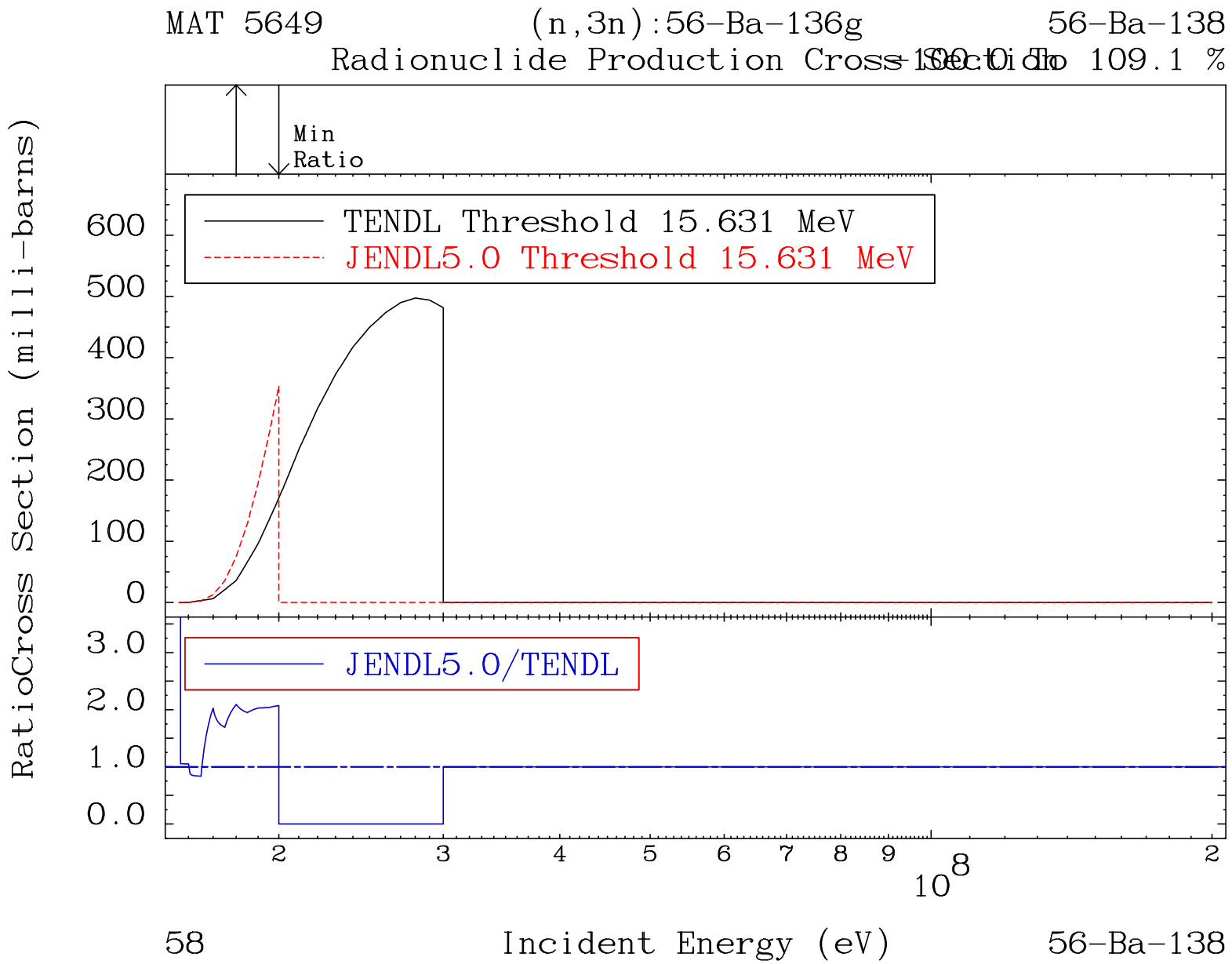

MAT 5649
Dpa elastic (mt2)
Cross Section
56-Ba-138
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 824.01 eV
JENDL5.0 Threshold 824.01 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
56-Ba-138

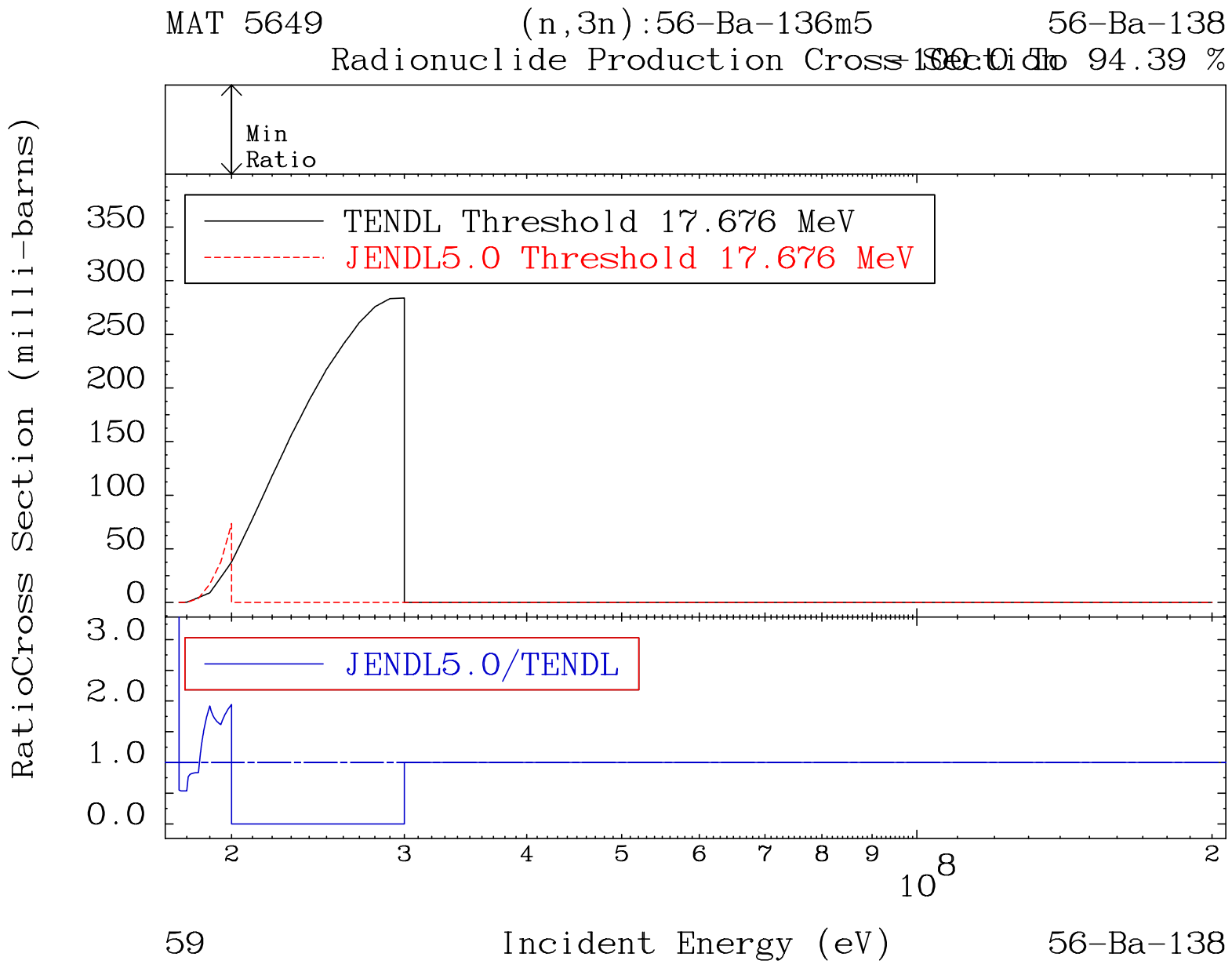

MAT 5649
Dpa inelastic (mt51-91)
56-Ba-138
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4463 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
56-Ba-138

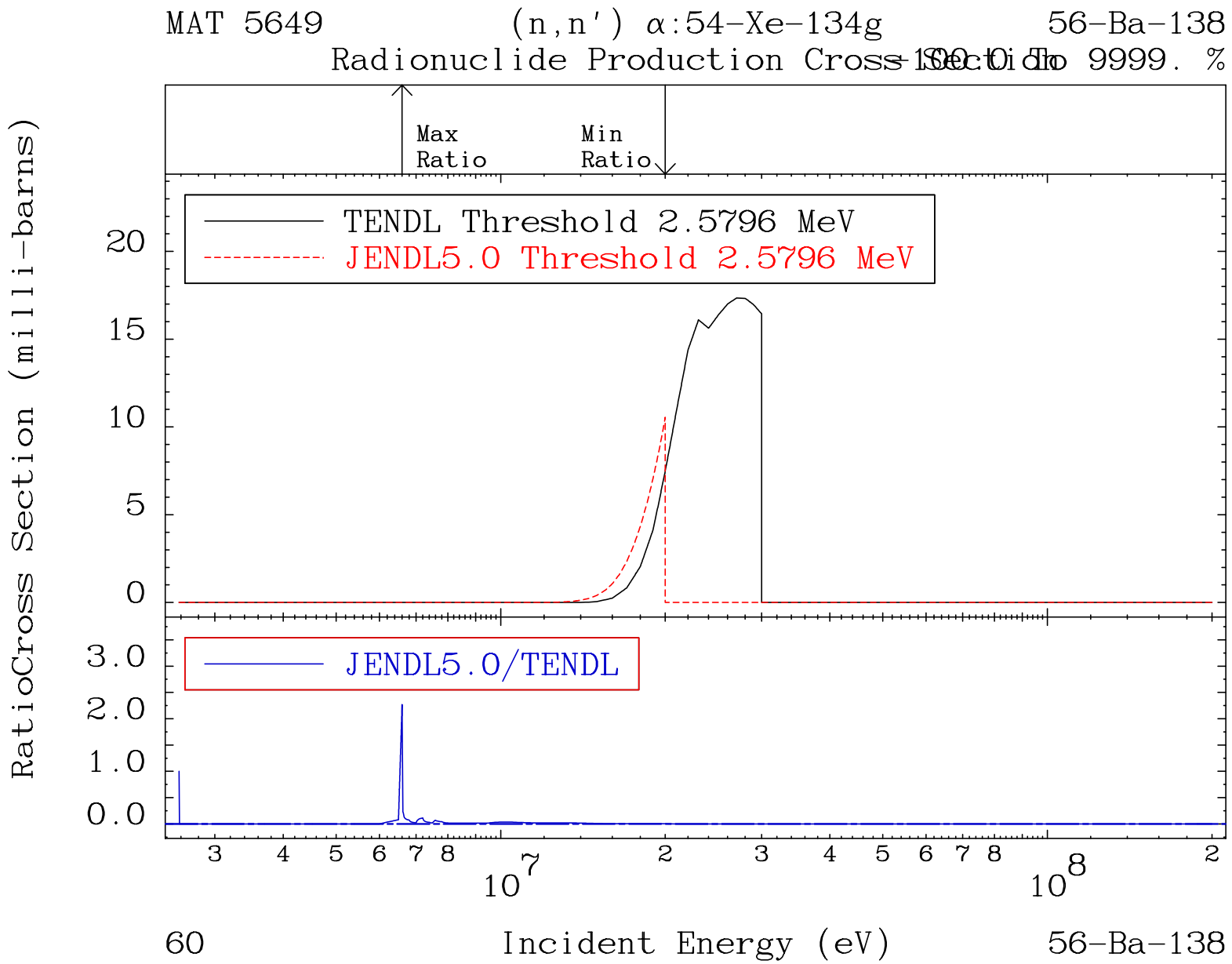

MAT 5649 Dpa disappearance (mt102 -120) 56-Ba-138
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
56-Ba-138

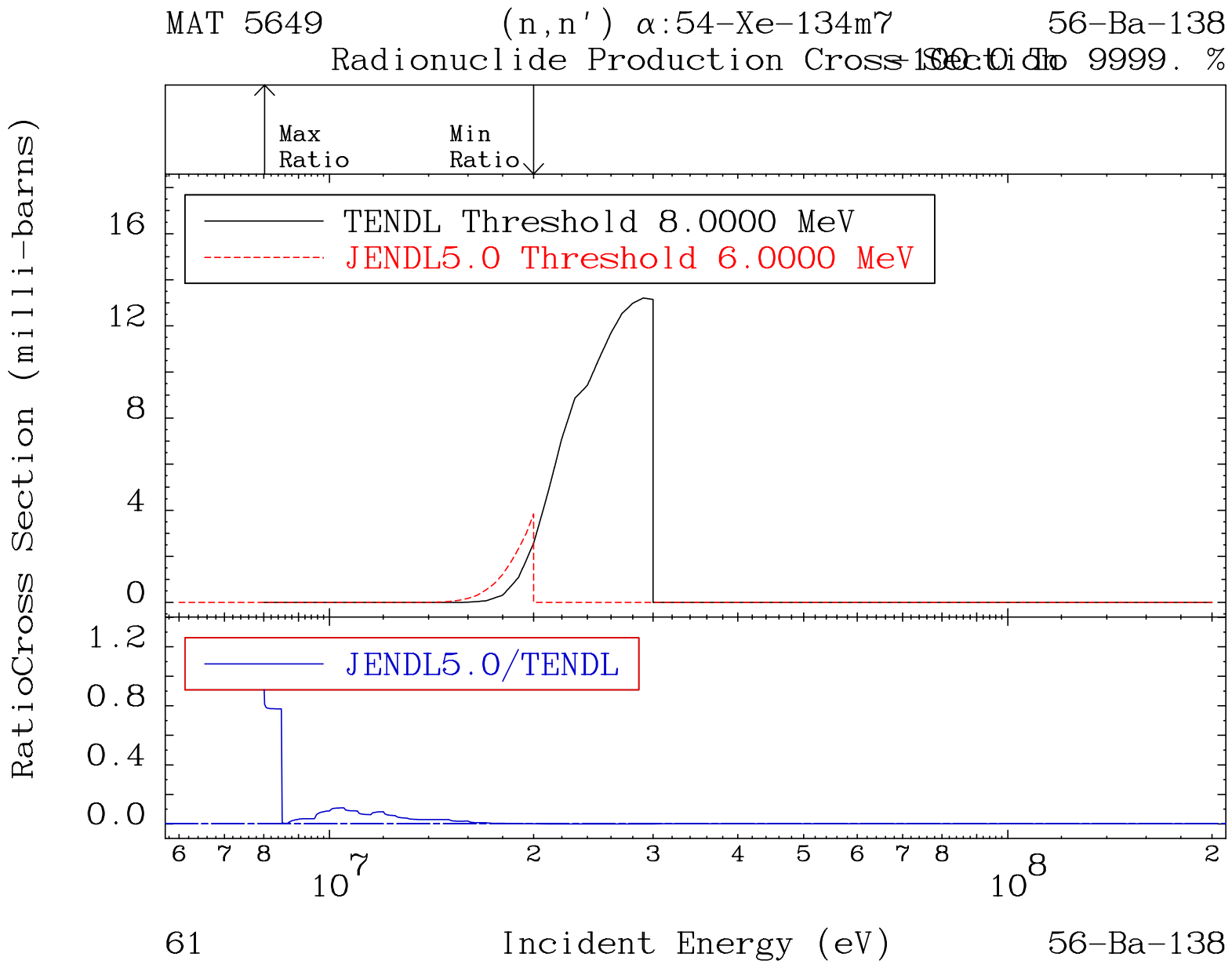

MAT 5649
(n,2n):56-Ba-137g
56-Ba-138
Radionuclide Production Cross Section To 84.53 %
Max Ratio
Min Ratio
TENDL Threshold 8.6747 MeV
JENDL5.0 Threshold 8.6747 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
56-Ba-138

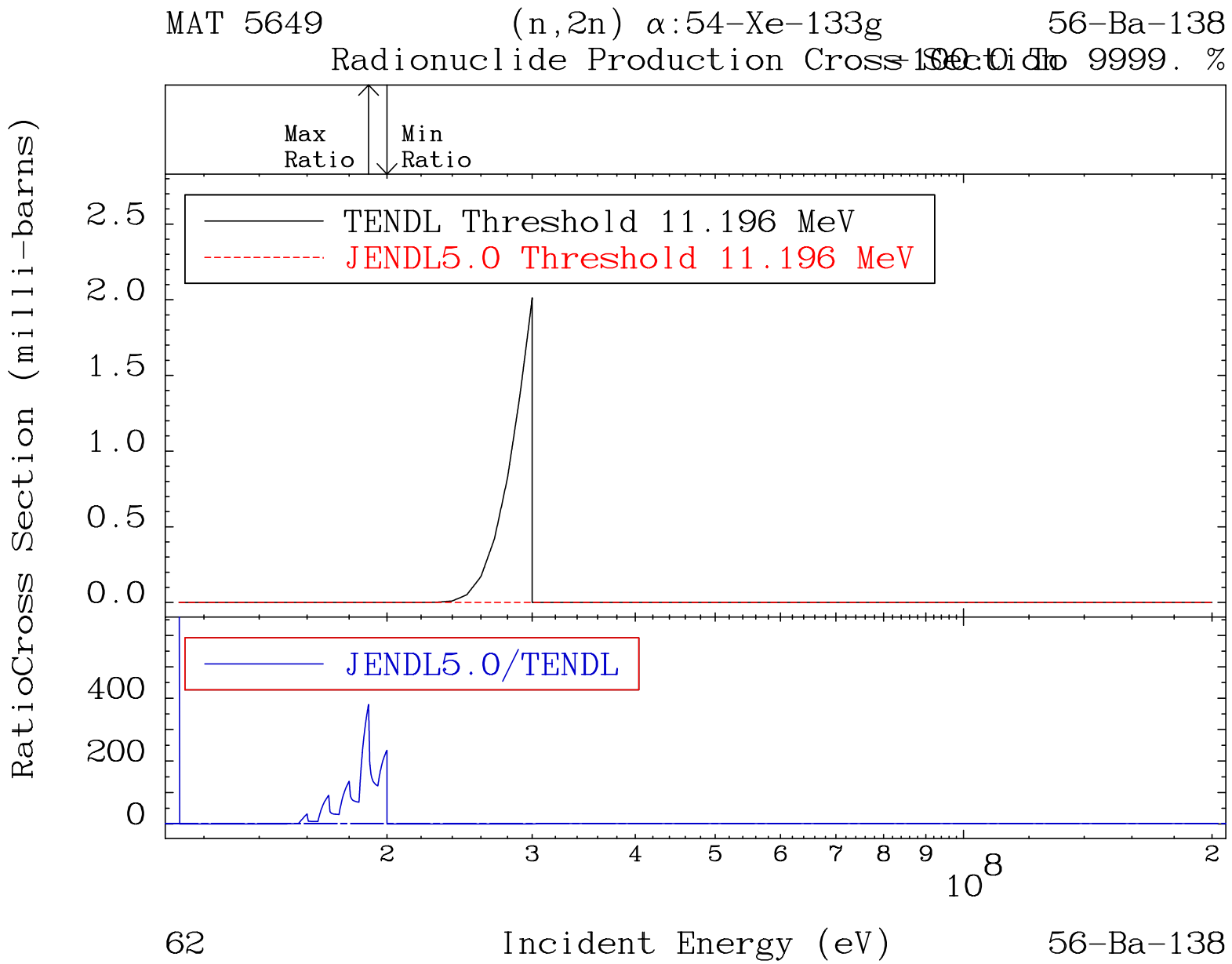

MAT 5649
(n,2n):56-Ba-137m2
56-Ba-138
Radionuclide Production Cross Section To 50.83 %
Max Ratio
Min Ratio
TENDL Threshold 9.3412 MeV
JENDL5.0 Threshold 9.3412 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
56-Ba-138

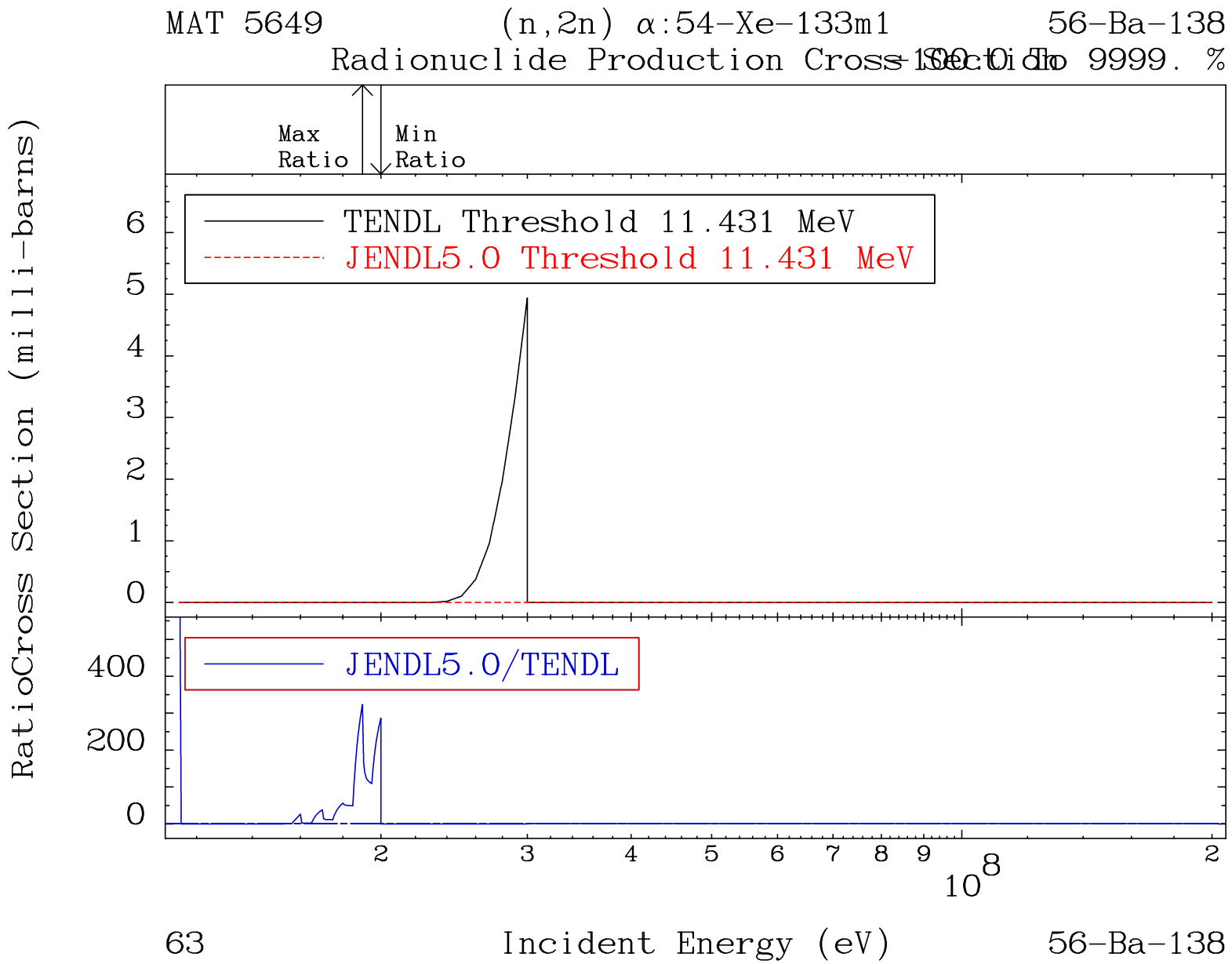

MAT 5649
(n,3n):56-Ba-136g
56-Ba-138
Radionuclide Production Cross Section
Min Ratio
TENDL Threshold 15.631 MeV
JENDL5.0 Threshold 15.631 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
56-Ba-138

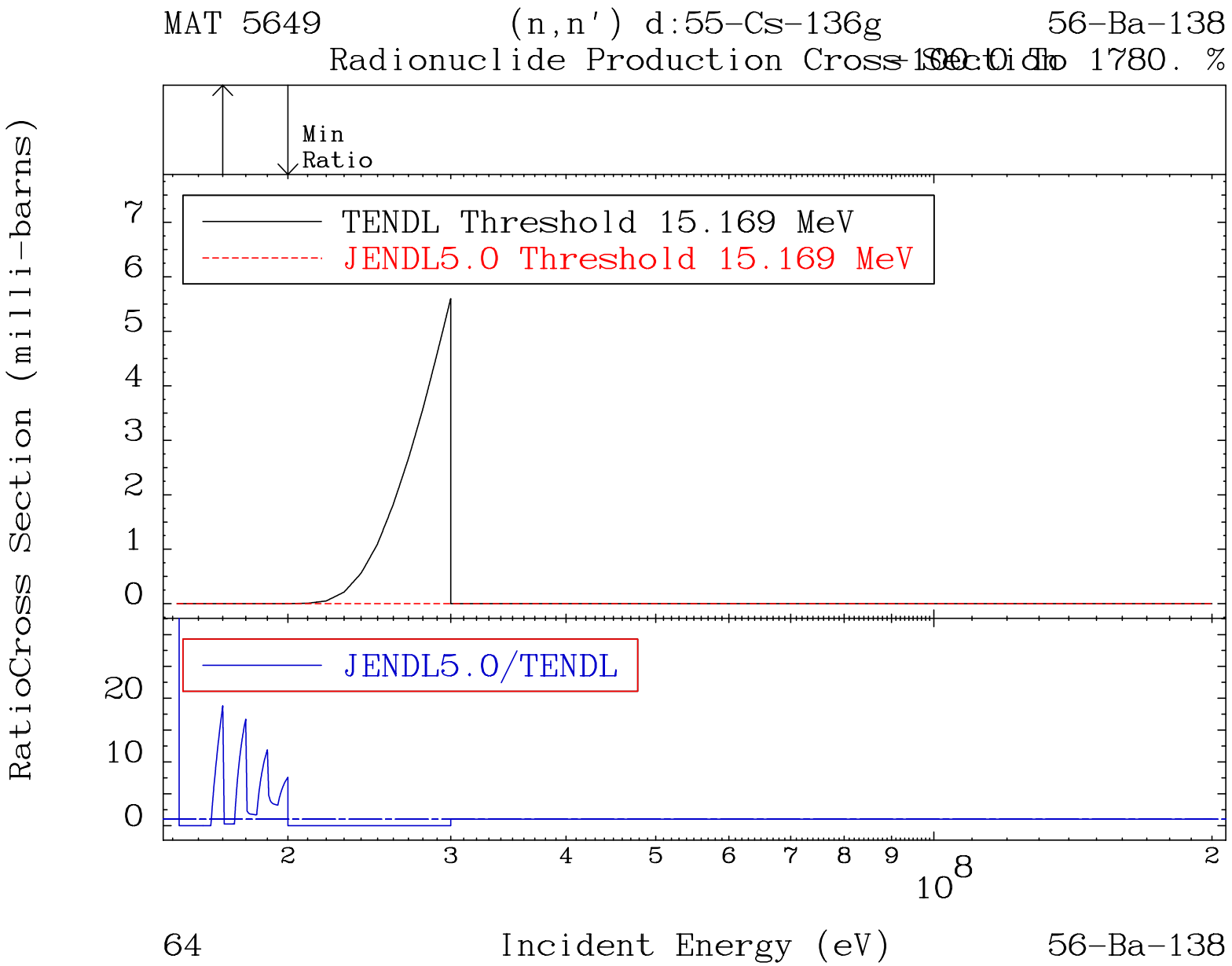

MAT 5649
(n,3n):56-Ba-136m5
56-Ba-138
Radionuclide Production Cross Section To 94.39 %
Min
Ratio
TENDL Threshold 17.676 MeV
JENDL5.0 Threshold 17.676 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
56-Ba-138

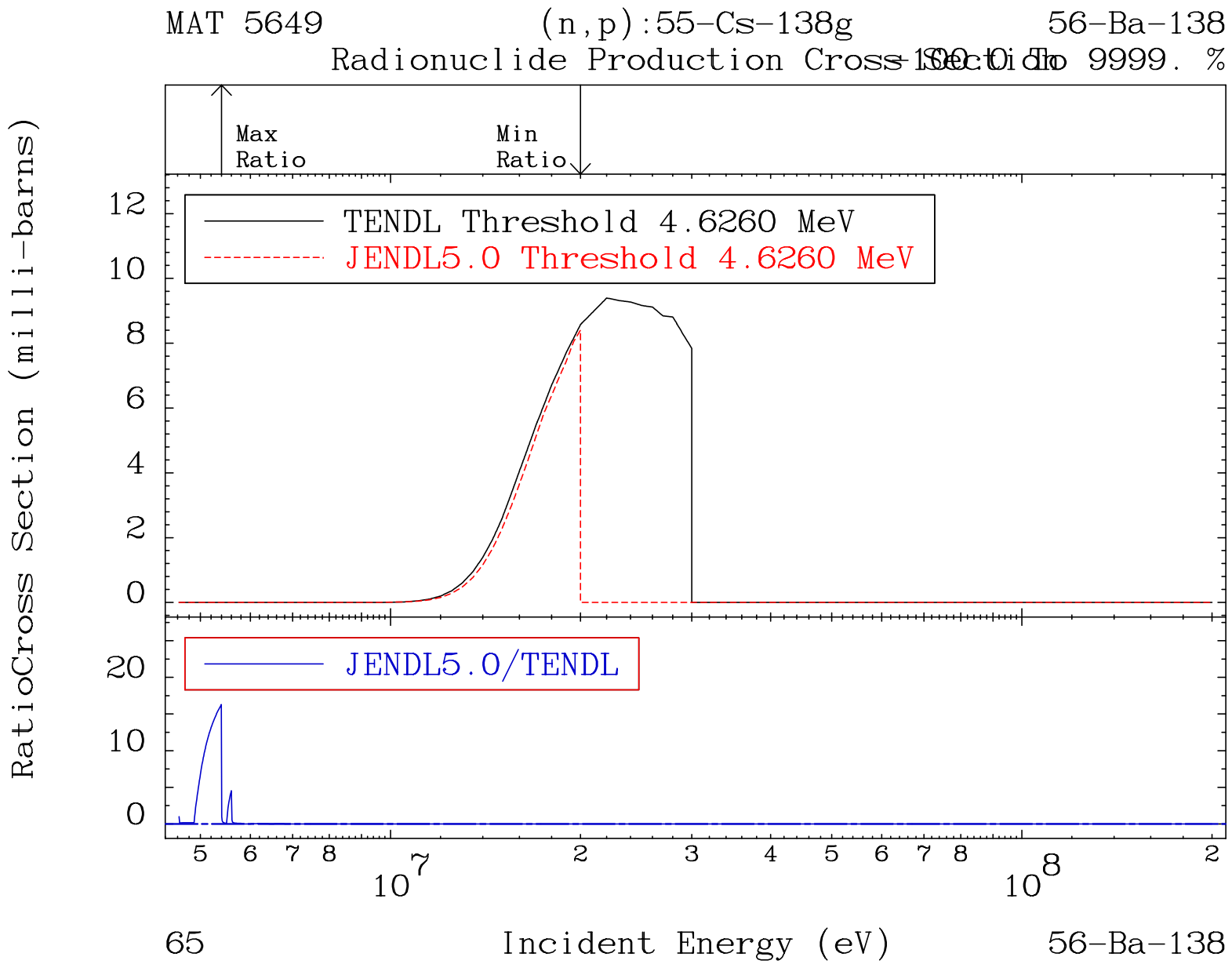

MAT 5649
(n,n') α:54-Xe-134g
56-Ba-138
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 2.5796 MeV
JENDL5.0 Threshold 2.5796 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
60
56-Ba-138

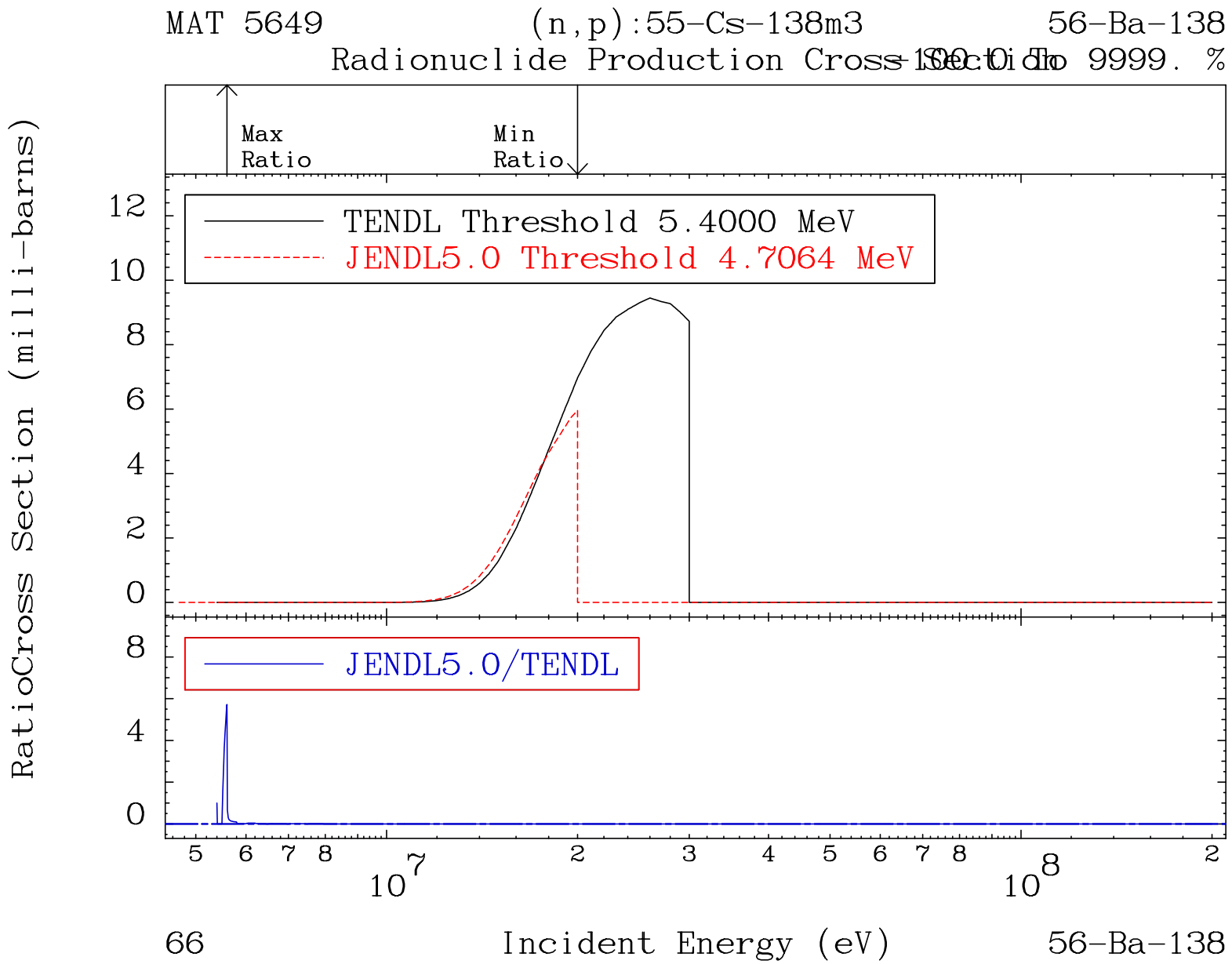

MAT 5649
(n,n') α:54-Xe-134m7
56-Ba-138
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 8.0000 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
61
56-Ba-138

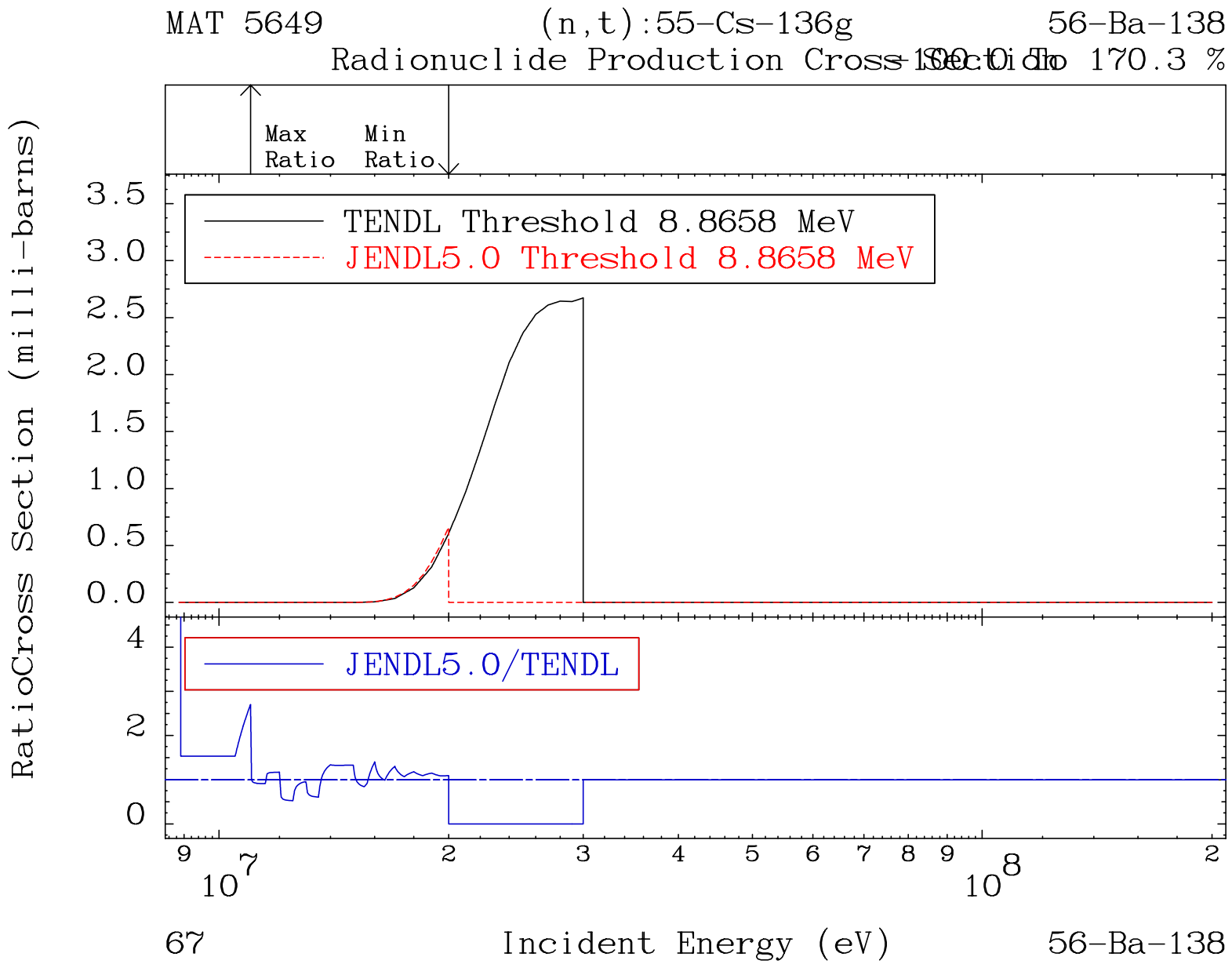

MAT 5649
(n,2n) α:54-Xe-133g
56-Ba-138
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.196 MeV
JENDL5.0 Threshold 11.196 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
400
200
0
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
56-Ba-138


MAT 5649
(n,2n) α:54-Xe-133m1
56-Ba-138
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.431 MeV
JENDL5.0 Threshold 11.431 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
63
56-Ba-138


MAT 5649
(n,n') d:55-Cs-136g
56-Ba-138
Radionuclide Production Cross Section To 1780. %
Min
Ratio
TENDL Threshold 15.169 MeV
JENDL5.0 Threshold 15.169 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
64
56-Ba-138


MAT 5649
(n,p):55-Cs-138g
56-Ba-138
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.6260 MeV
JENDL5.0 Threshold 4.6260 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
56-Ba-138


MAT 5649
(n,p):55-Cs-138m3
56-Ba-138
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.4000 MeV
JENDL5.0 Threshold 4.7064 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
56-Ba-138


MAT 5649
(n,t):55-Cs-136g
56-Ba-138
Radionuclide Production Cross Section To 170.3 %
Max Ratio
Min Ratio
TENDL Threshold 8.8658 MeV
JENDL5.0 Threshold 8.8658 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
56-Ba-138