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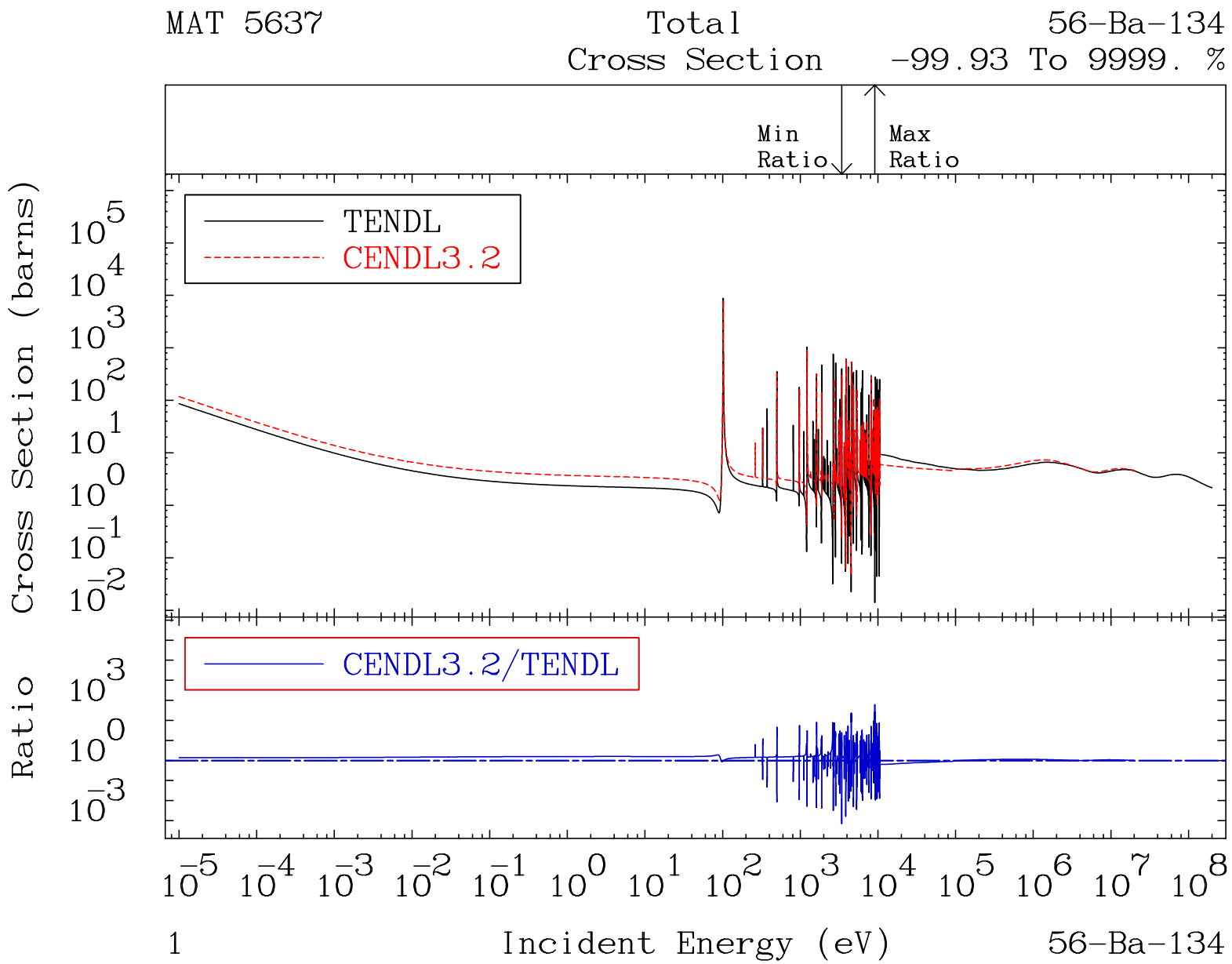
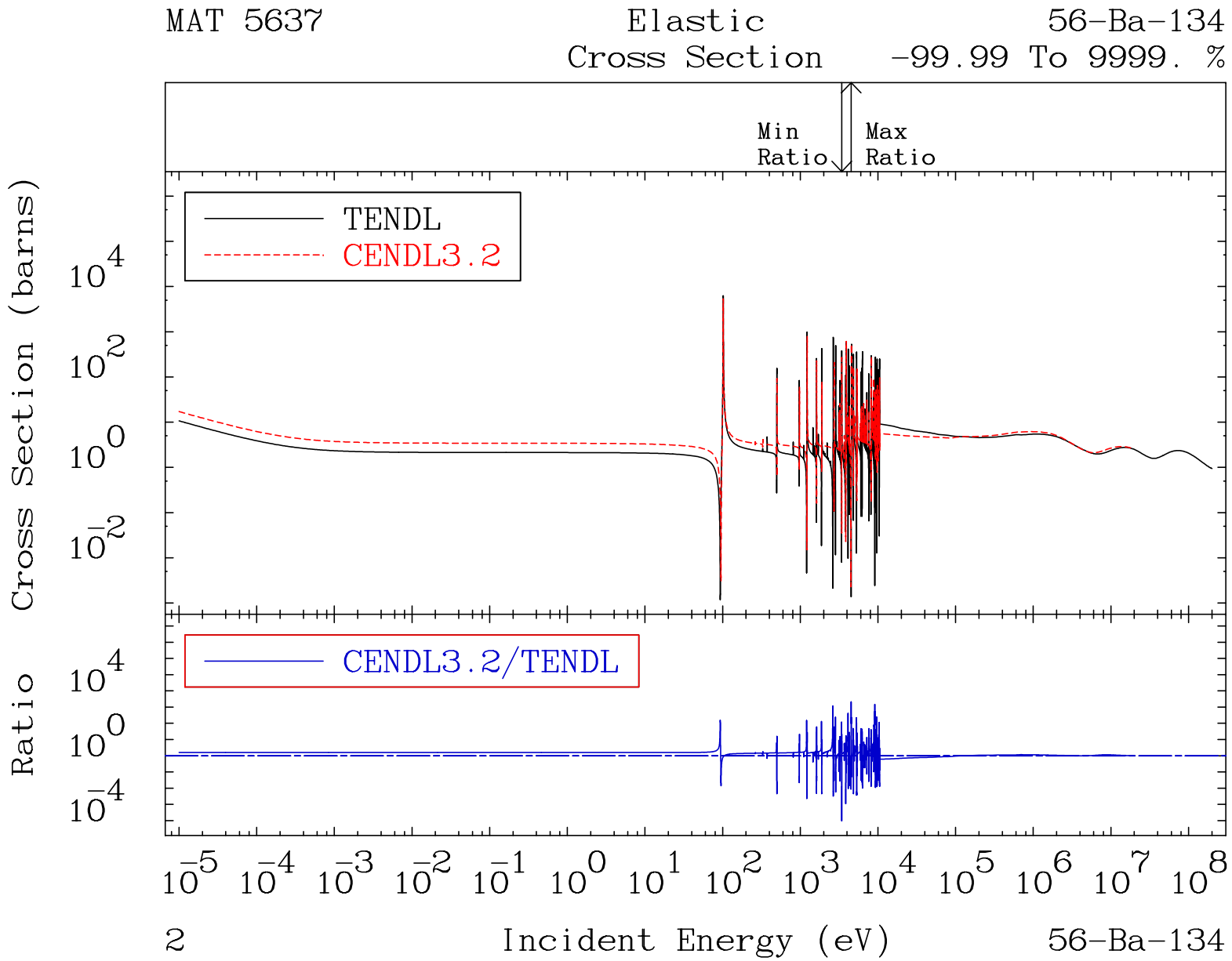
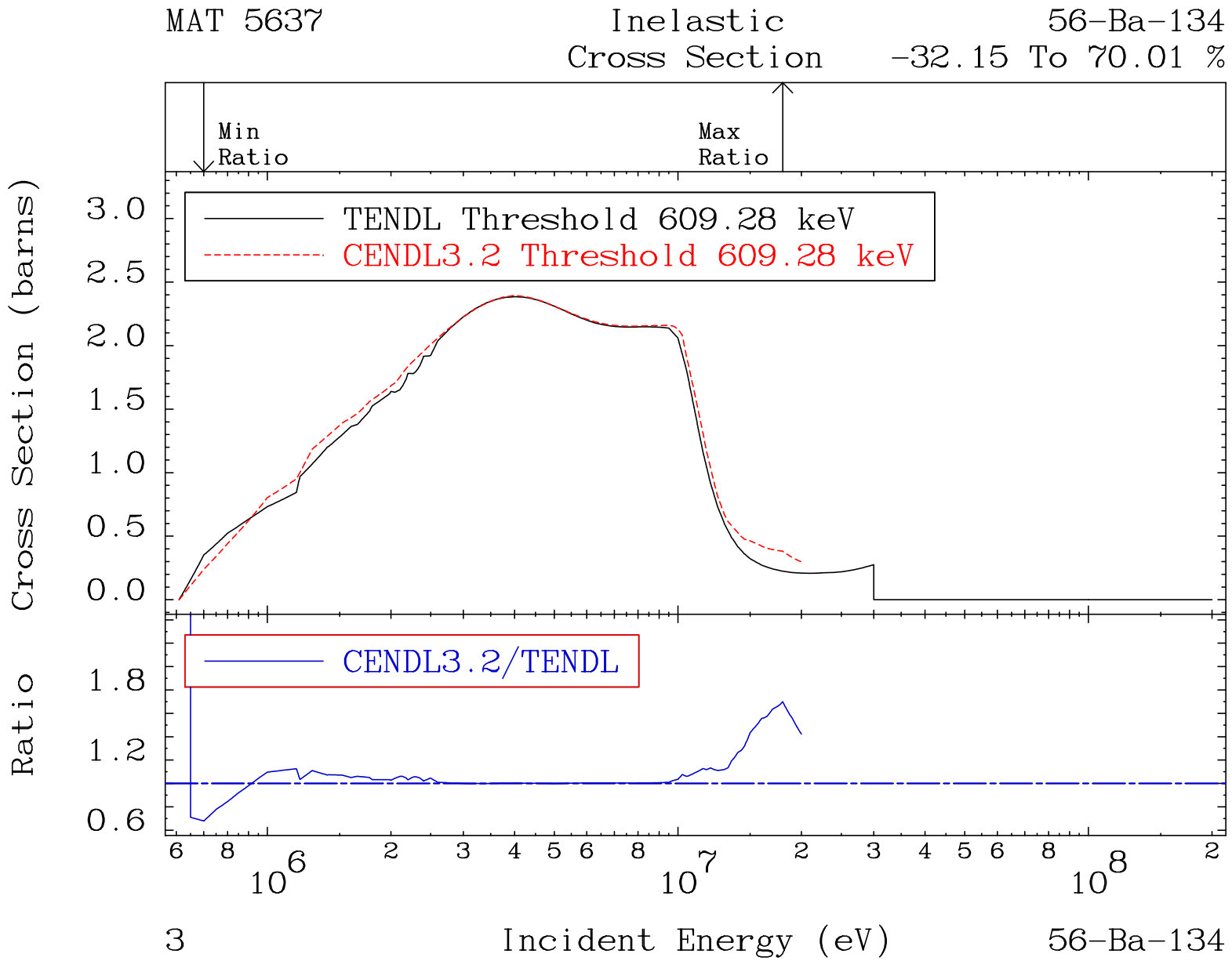
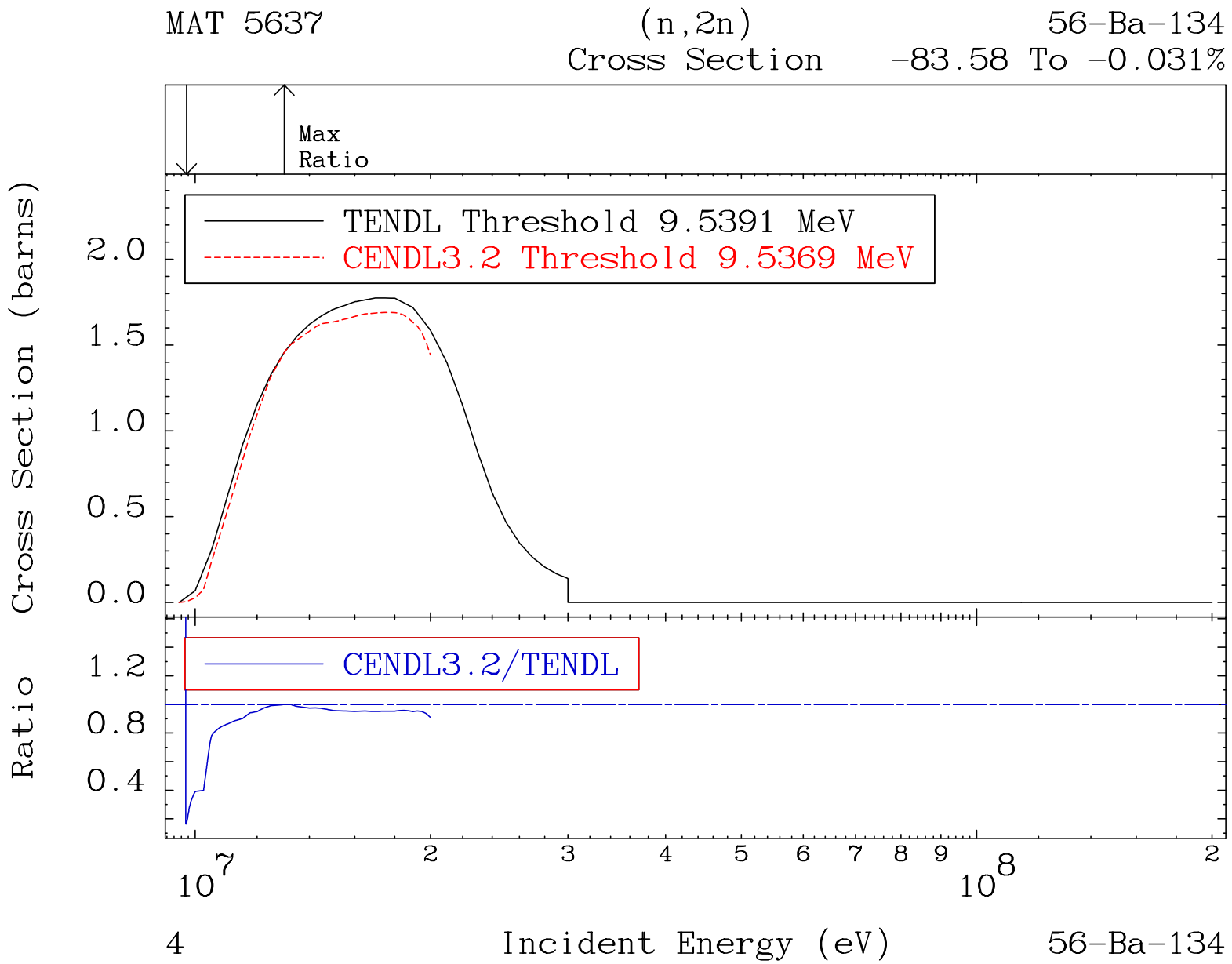
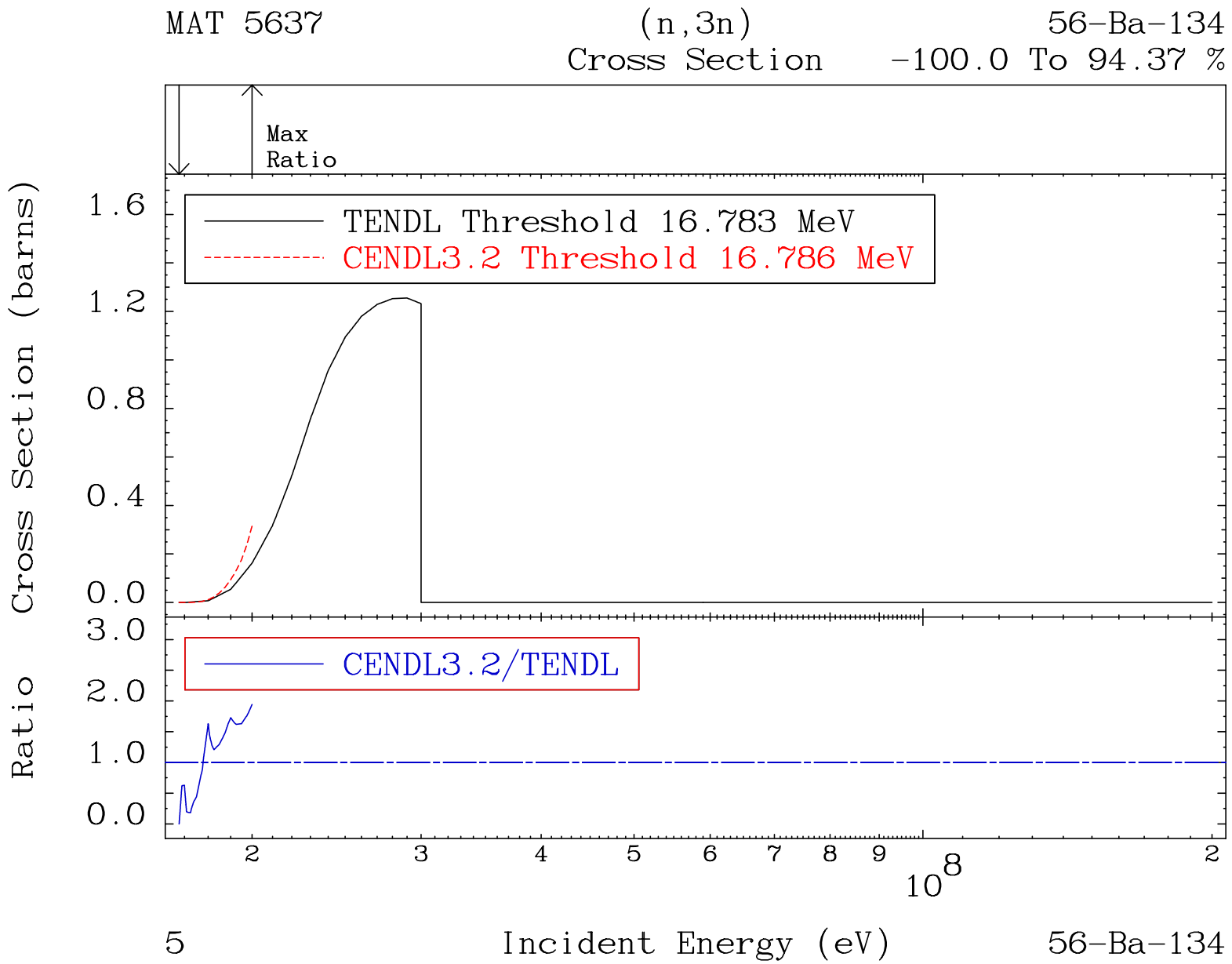
Press Mouse Button to Start

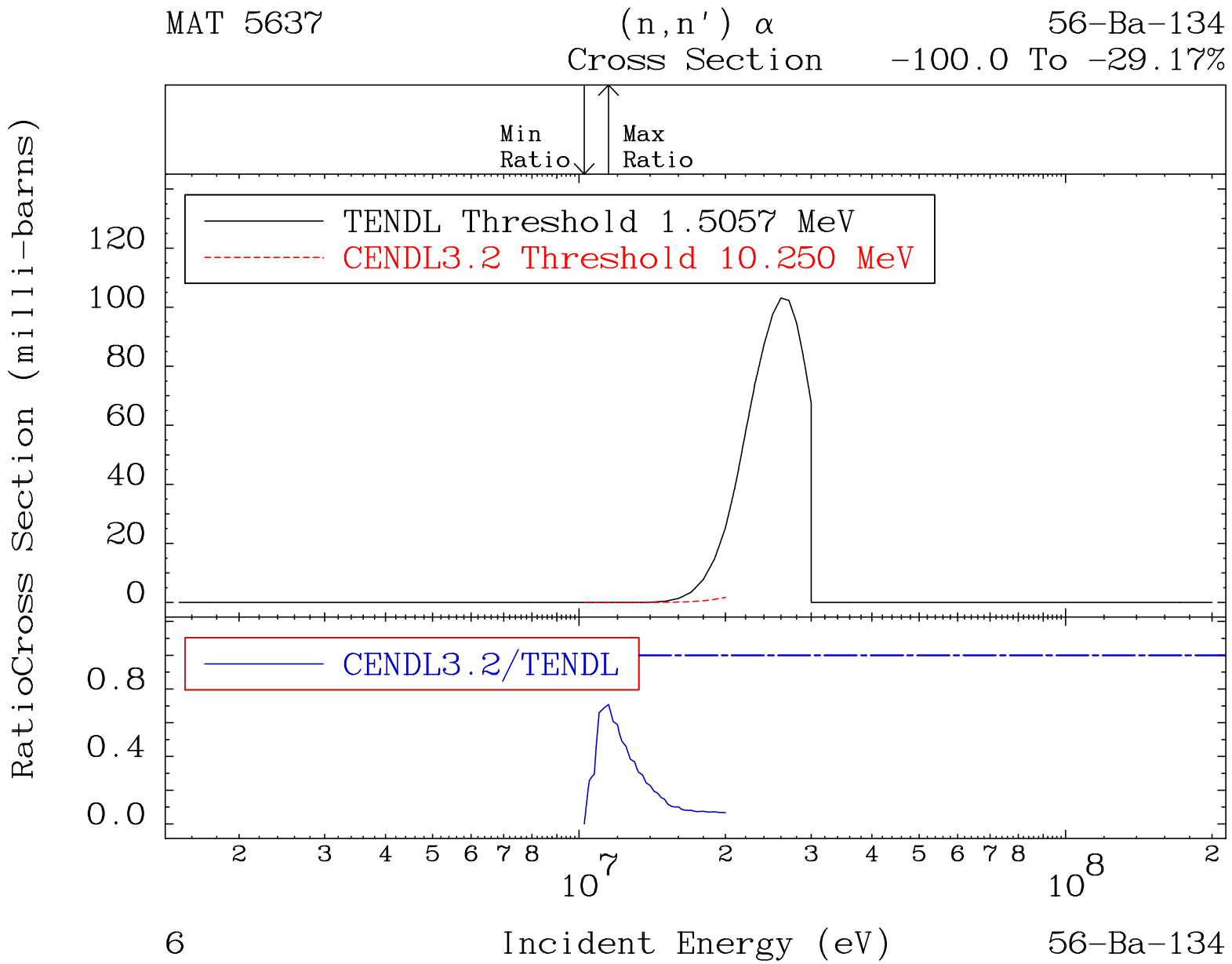

MAT 5637
Total
Cross Section
56-Ba-134
-99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
56-Ba-134

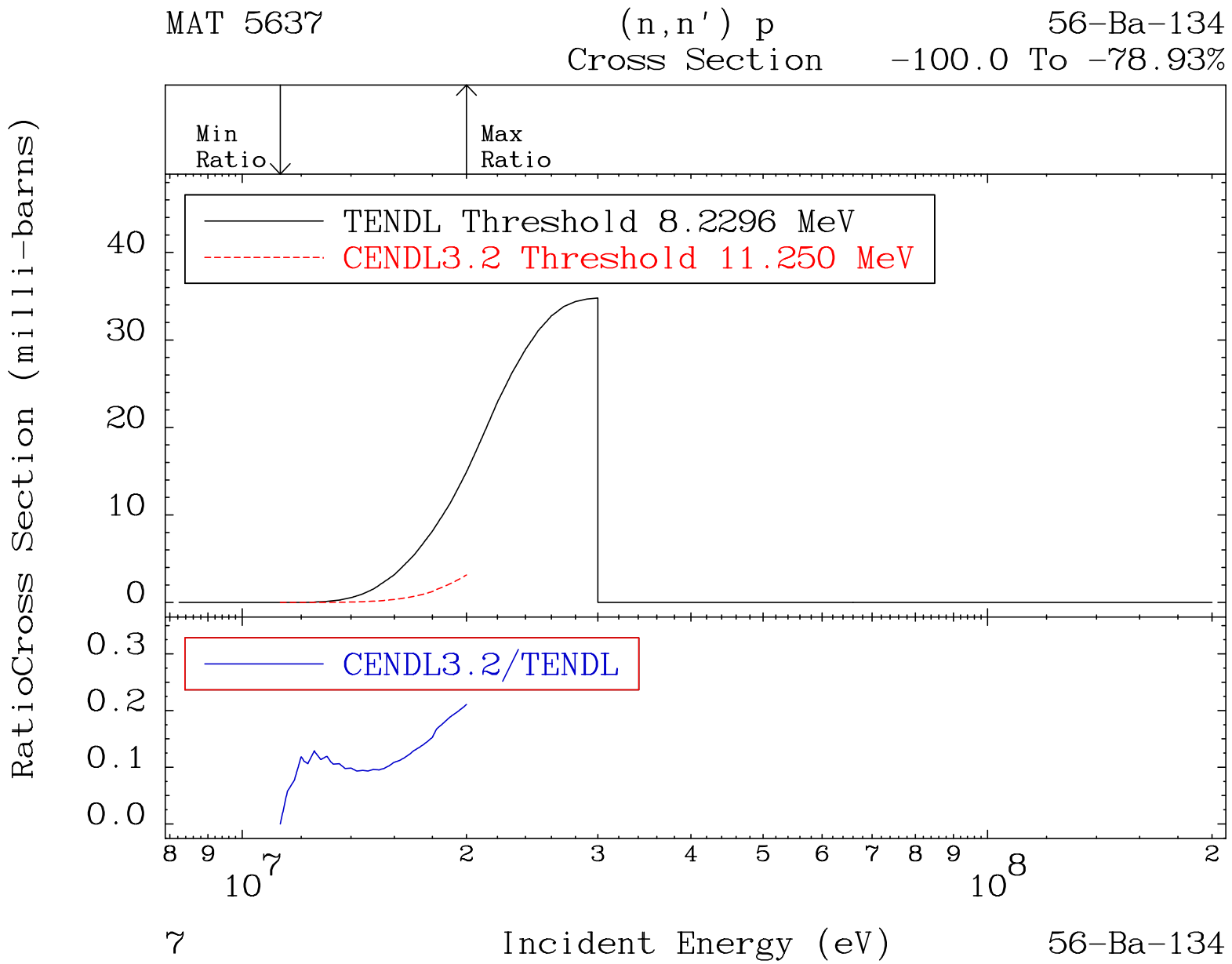

MAT 5637
Elastic
Cross Section
56-Ba-134
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
56-Ba-134

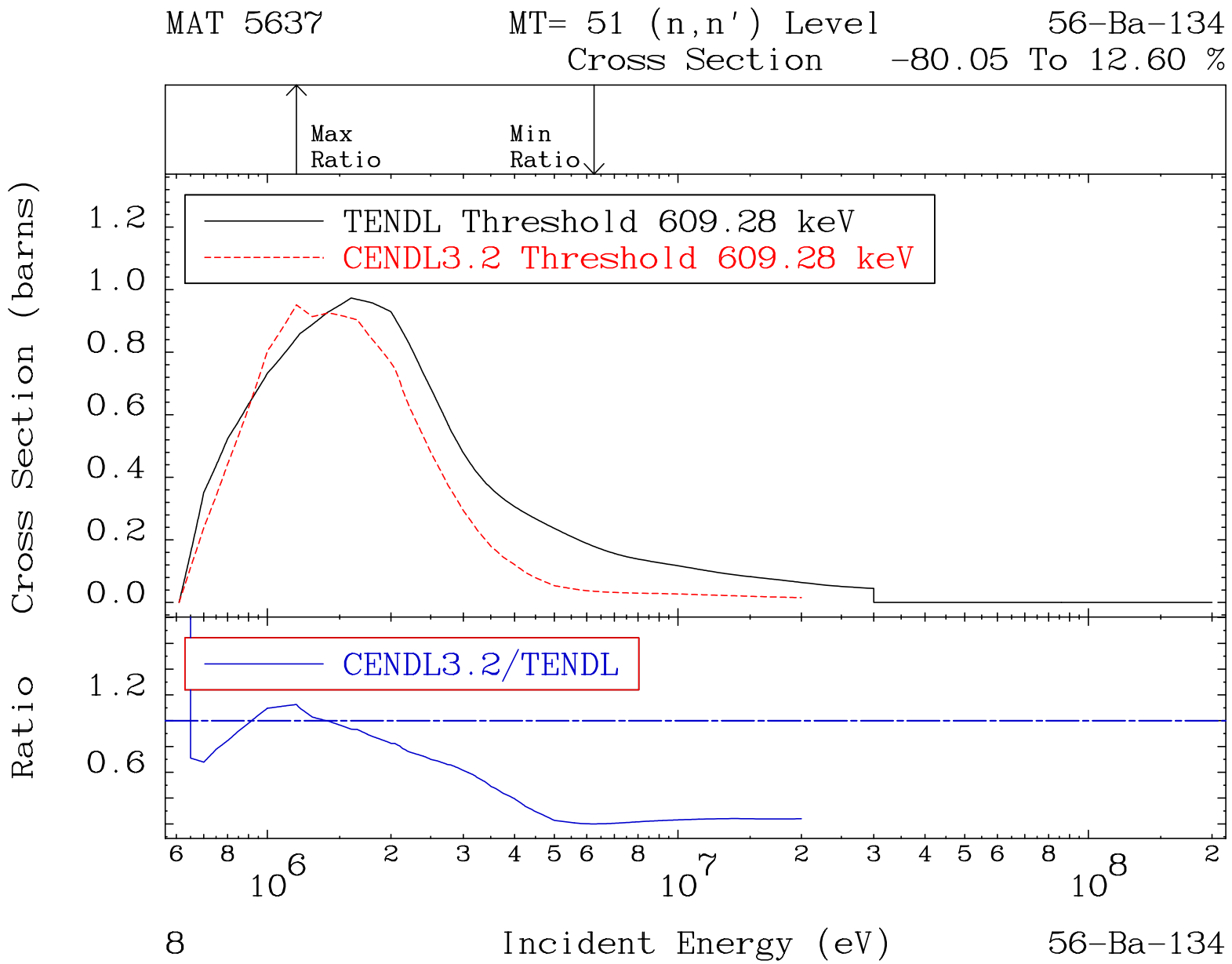

MAT 5637
Inelastic
Cross Section
56-Ba-134
-32.15 To 70.01 %
Min
Ratio
Max
Ratio
TENDL Threshold 609.28 keV
CENDL3.2 Threshold 609.28 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
56-Ba-134

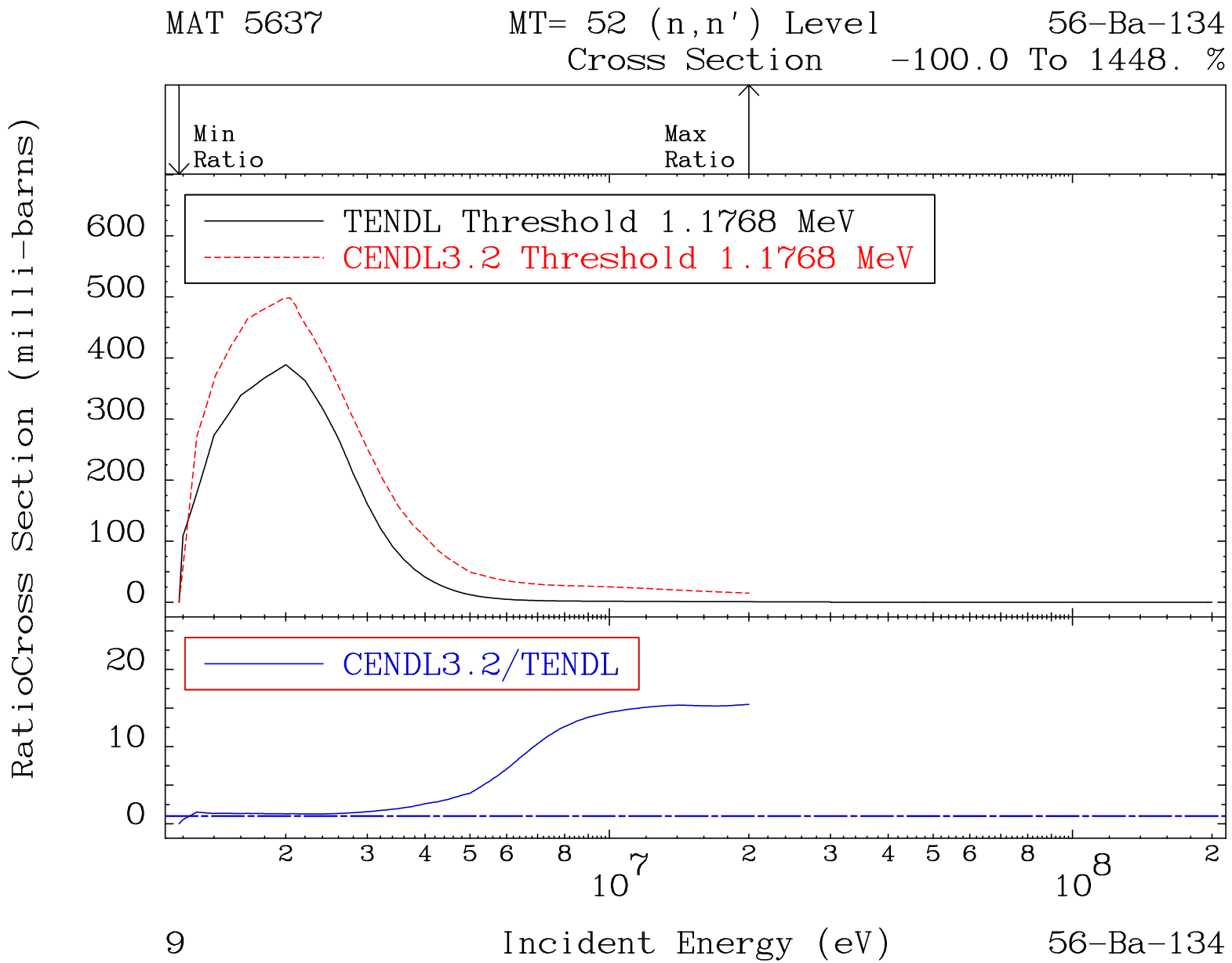

MAT 5637
(n,2n)
Cross Section
56-Ba-134
-83.58 To -0.031%
Max
Ratio
TENDL Threshold 9.5391 MeV
CENDL3.2 Threshold 9.5369 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.8
0.4
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
56-Ba-134

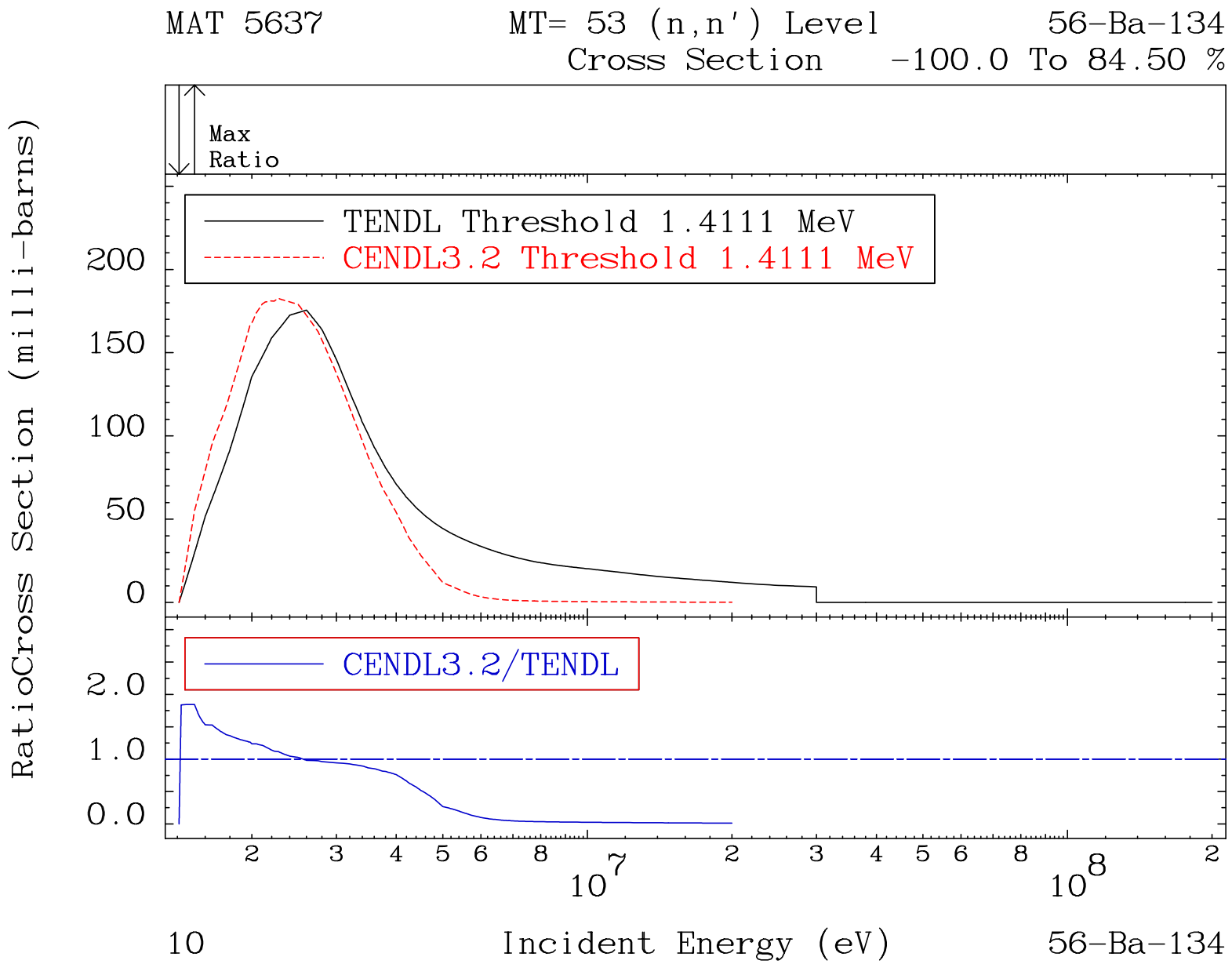

MAT 5637
(n,3n)
Cross Section
56-Ba-134
-100.0 To 94.37 %
Max
Ratio
TENDL Threshold 16.783 MeV
CENDL3.2 Threshold 16.786 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
56-Ba-134

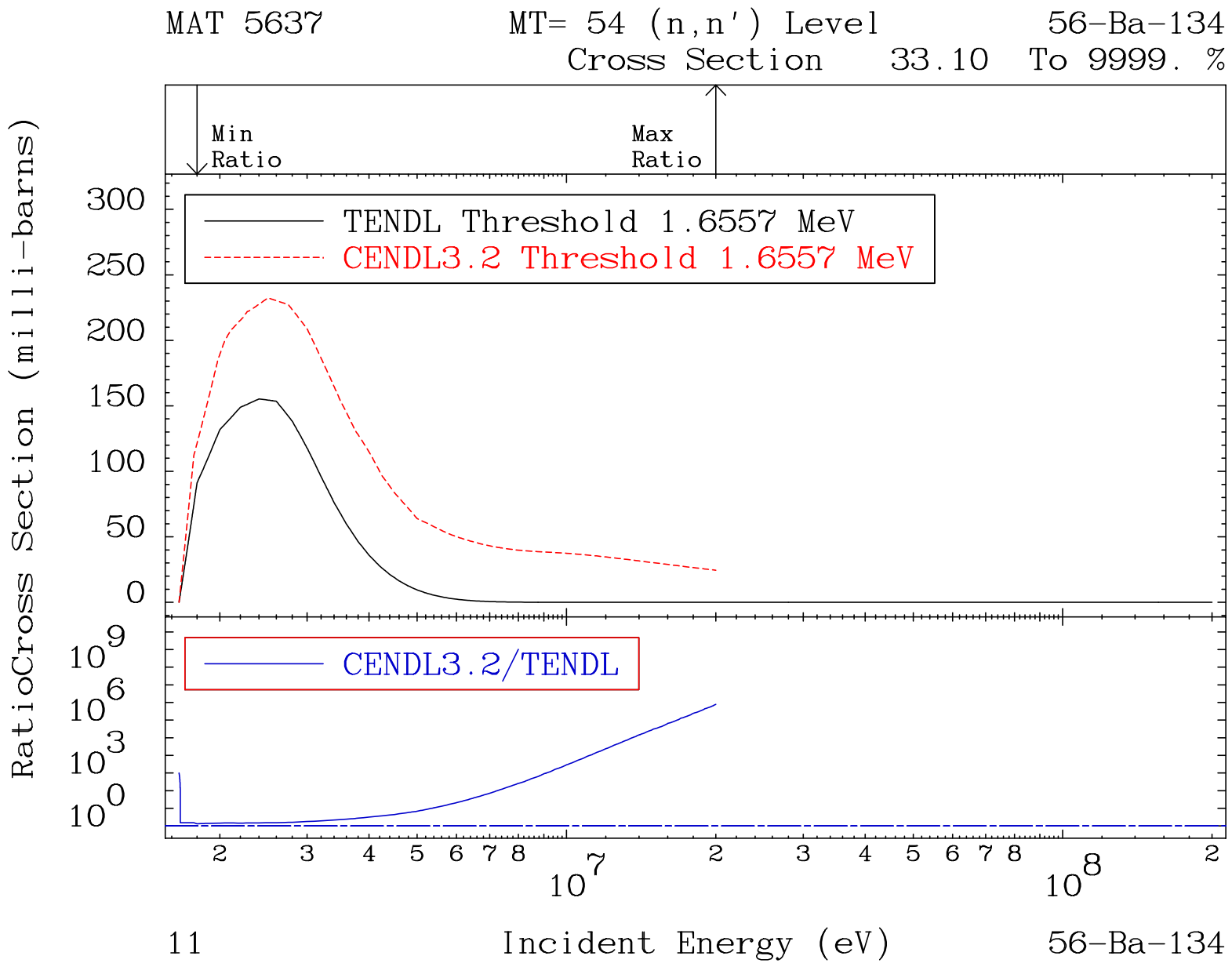

MAT 5637
(n,n') α
56-Ba-134
Cross Section
-100.0 To -29.17%
Min Ratio
Max Ratio
TENDL Threshold 1.5057 MeV
CENDL3.2 Threshold 10.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
56-Ba-134

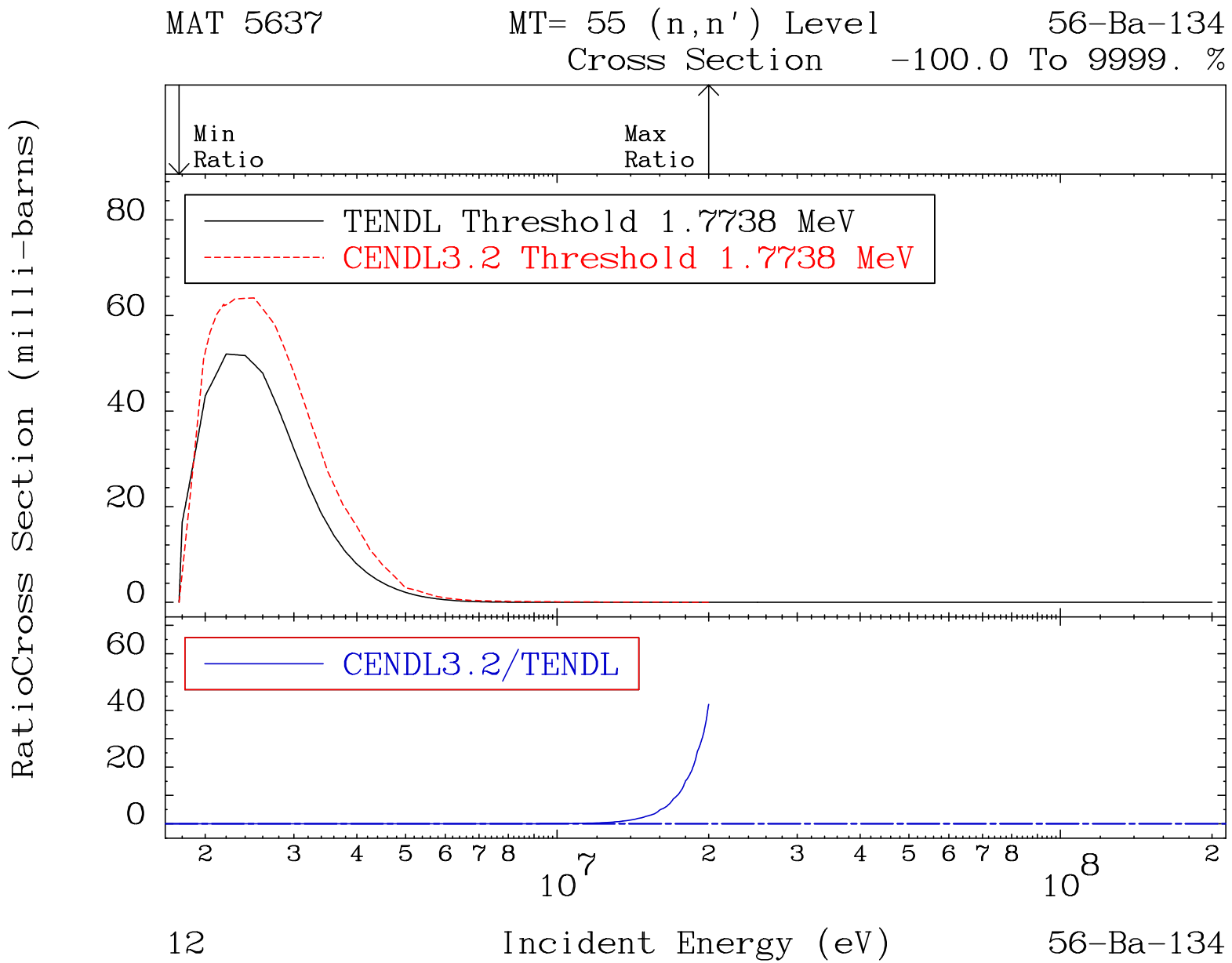

MAT 5637
(n,n') p
Cross Section
56-Ba-134
-100.0 To -78.93%
Min Ratio
Max Ratio
TENDL Threshold 8.2296 MeV
CENDL3.2 Threshold 11.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
0.3
0.2
0.1
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
56-Ba-134

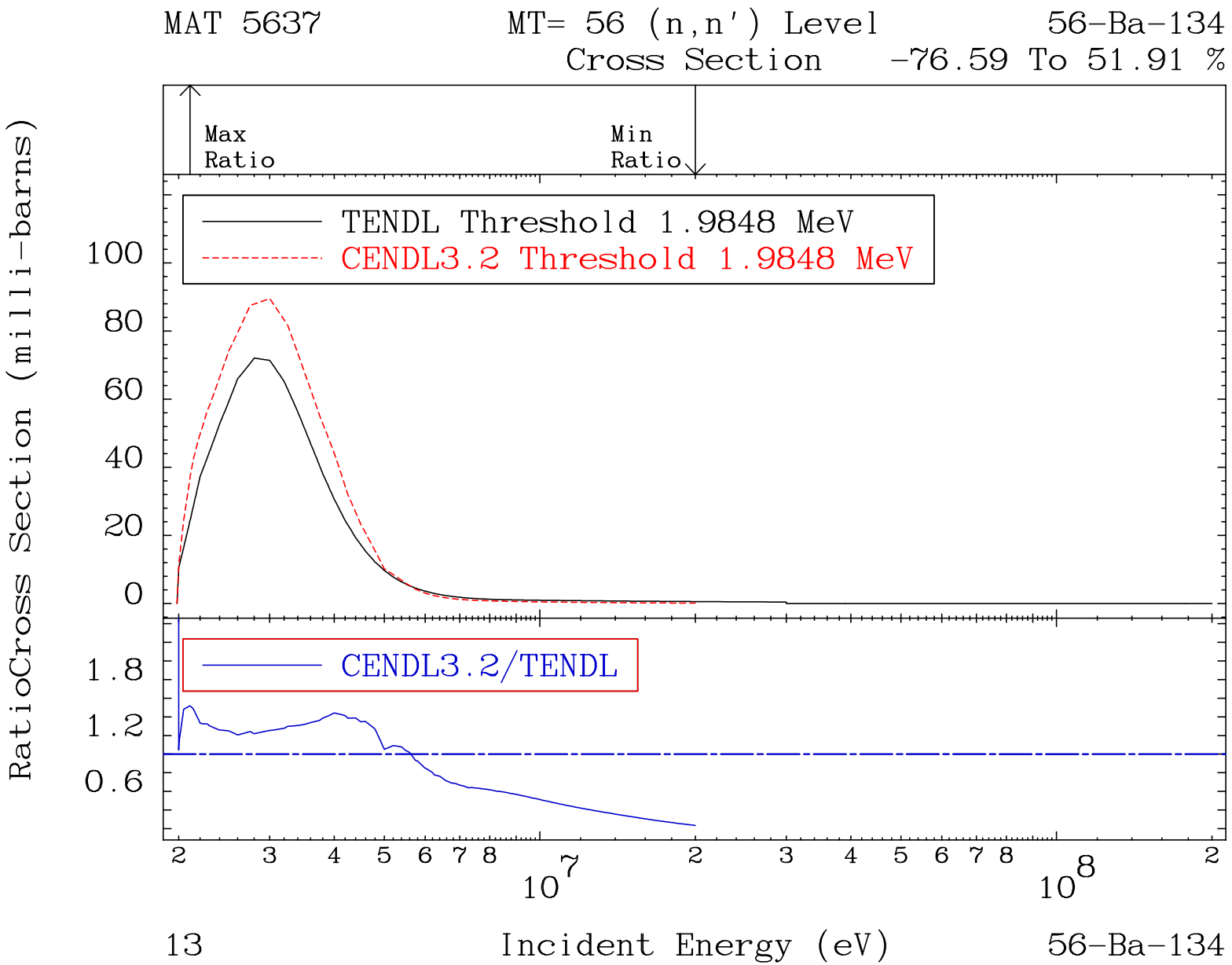

MAT 5637
MT= 51 (n,n') Level
56-Ba-134
Cross Section -80.05 To 12.60 %
Max Ratio
Min Ratio
TENDL Threshold 609.28 keV
CENDL3.2 Threshold 609.28 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
1.2
0.6
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
56-Ba-134

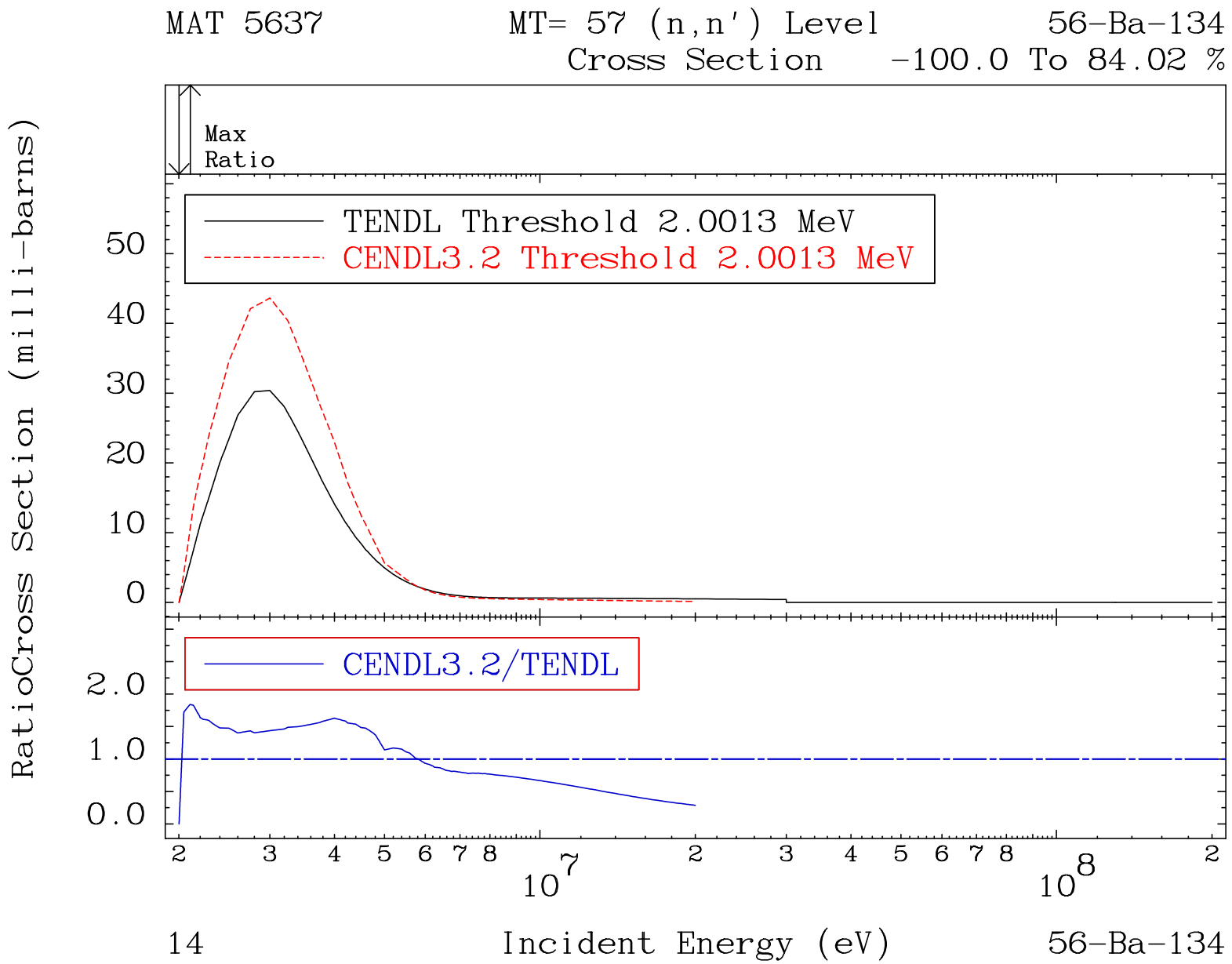

MAT 5637
MT= 52 (n,n') Level
56-Ba-134
Cross Section -100.0 To 1448. %
Min Ratio
Max Ratio
TENDL Threshold 1.1768 MeV
CENDL3.2 Threshold 1.1768 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
20
10
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
9
56-Ba-134

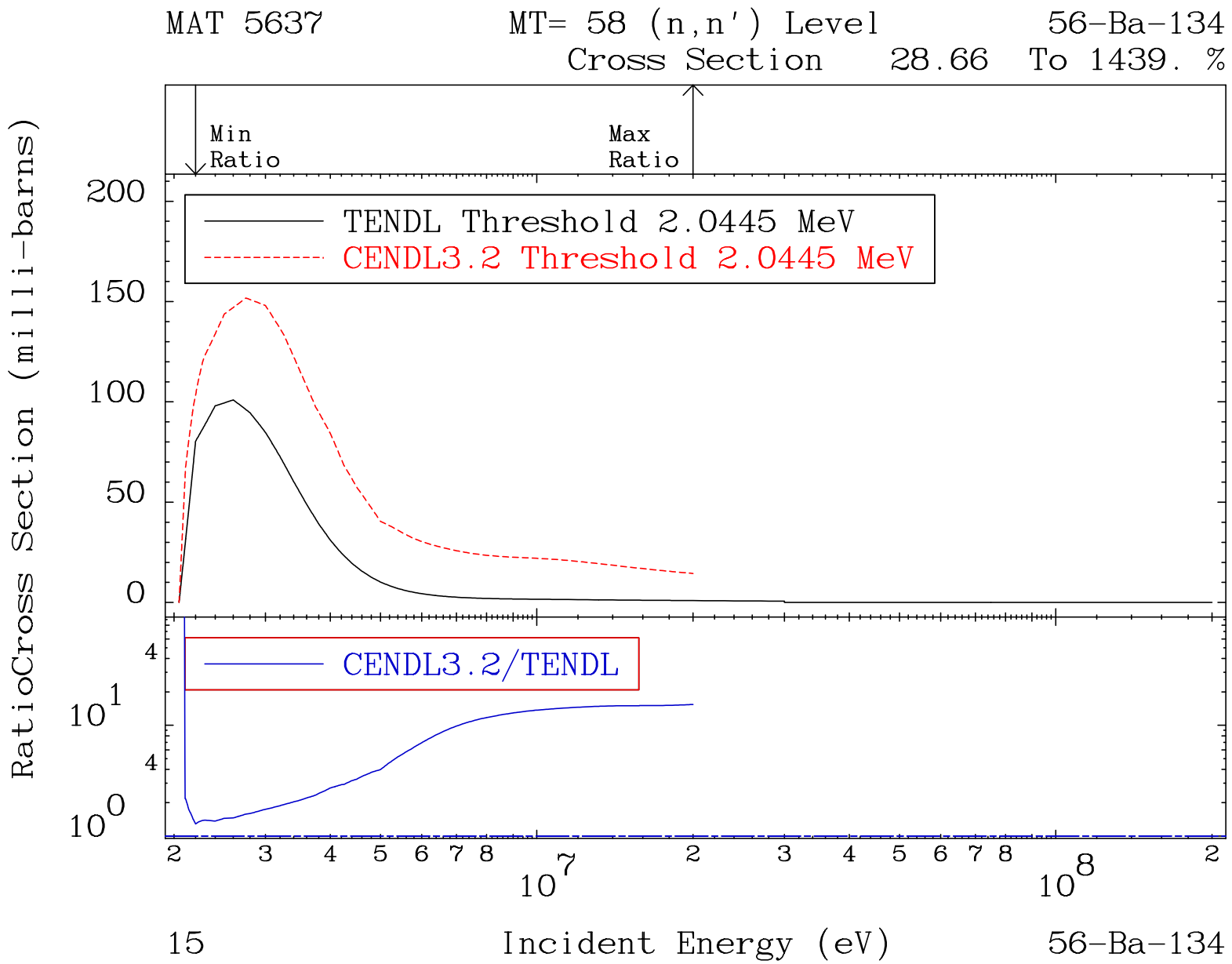

MAT 5637
MT= 53 (n,n') Level
56-Ba-134
Cross Section
-100.0 To 84.50 %
Max
Ratio
TENDL Threshold 1.4111 MeV
CENDL3.2 Threshold 1.4111 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
10
Incident Energy (eV)
56-Ba-134

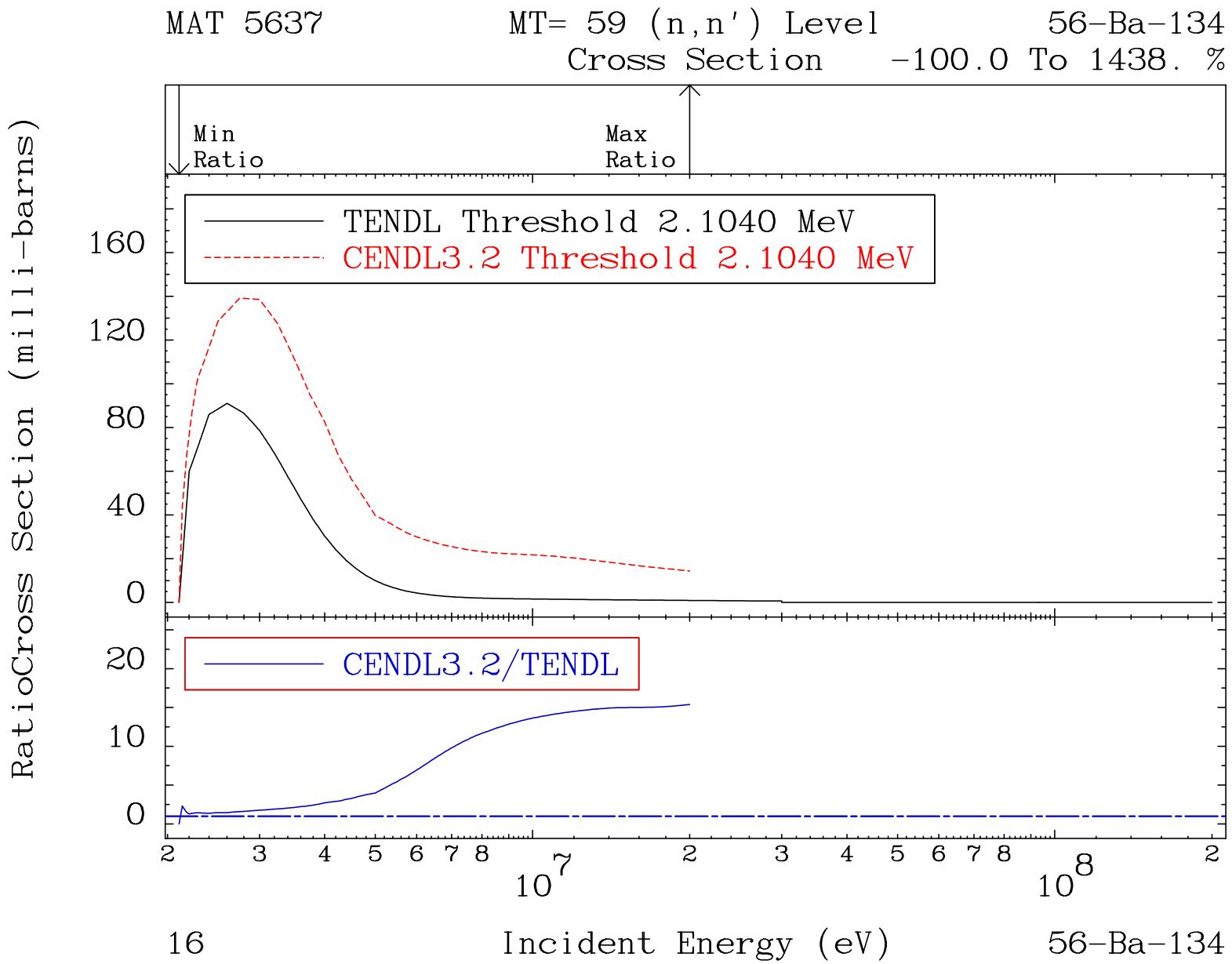

MAT 5637
MT= 54 (n,n') Level
56-Ba-134
Cross Section 33.10 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6557 MeV
CENDL3.2 Threshold 1.6557 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
56-Ba-134

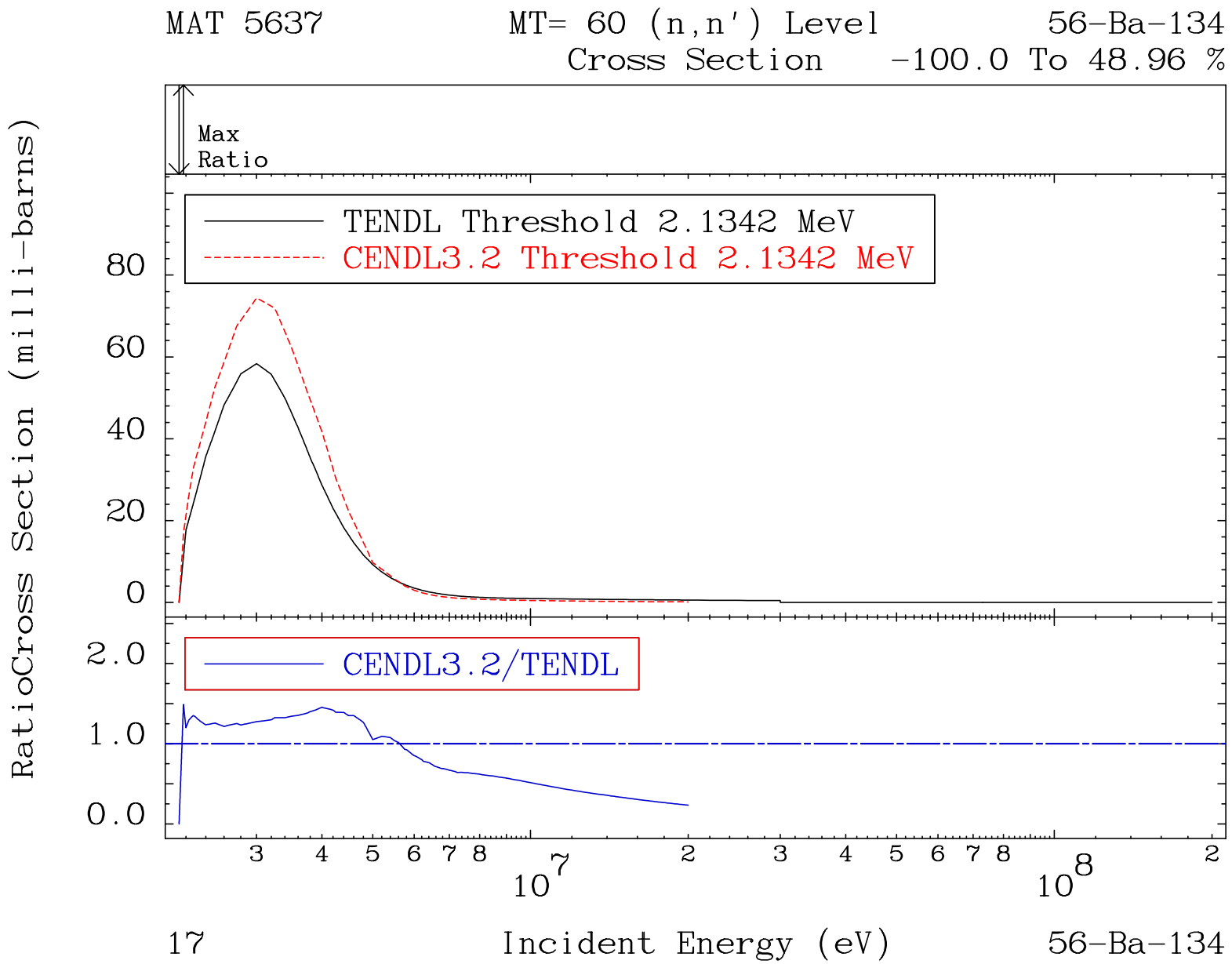

MAT 5637
MT= 55 (n,n') Level
56-Ba-134
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7738 MeV
CENDL3.2 Threshold 1.7738 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
60
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
56-Ba-134

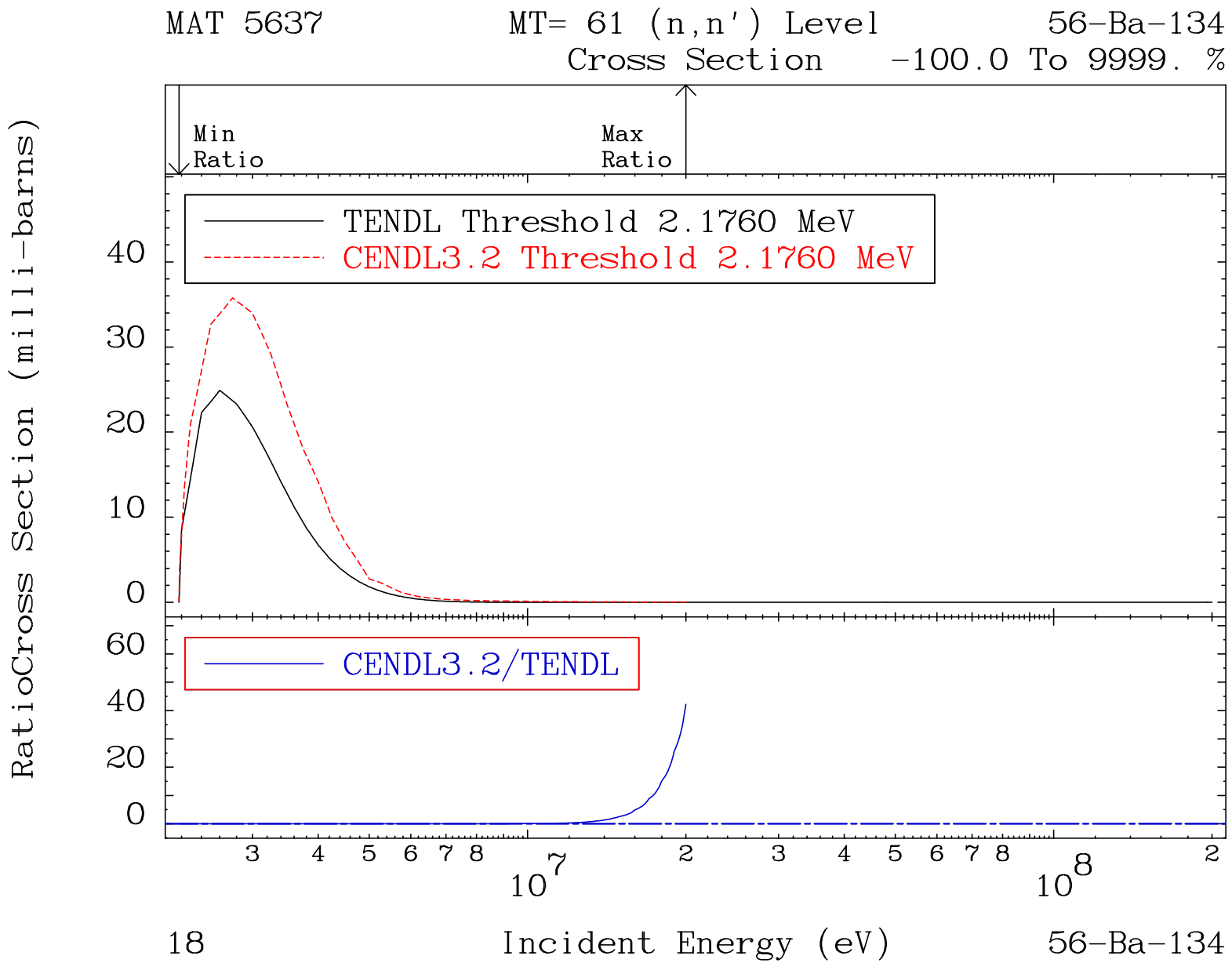

MAT 5637
MT= 56 (n,n') Level
56-Ba-134
Cross Section -76.59 To 51.91 %
Max Ratio
Min Ratio
TENDL Threshold 1.9848 MeV
CENDL3.2 Threshold 1.9848 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.8
1.2
0.6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
56-Ba-134

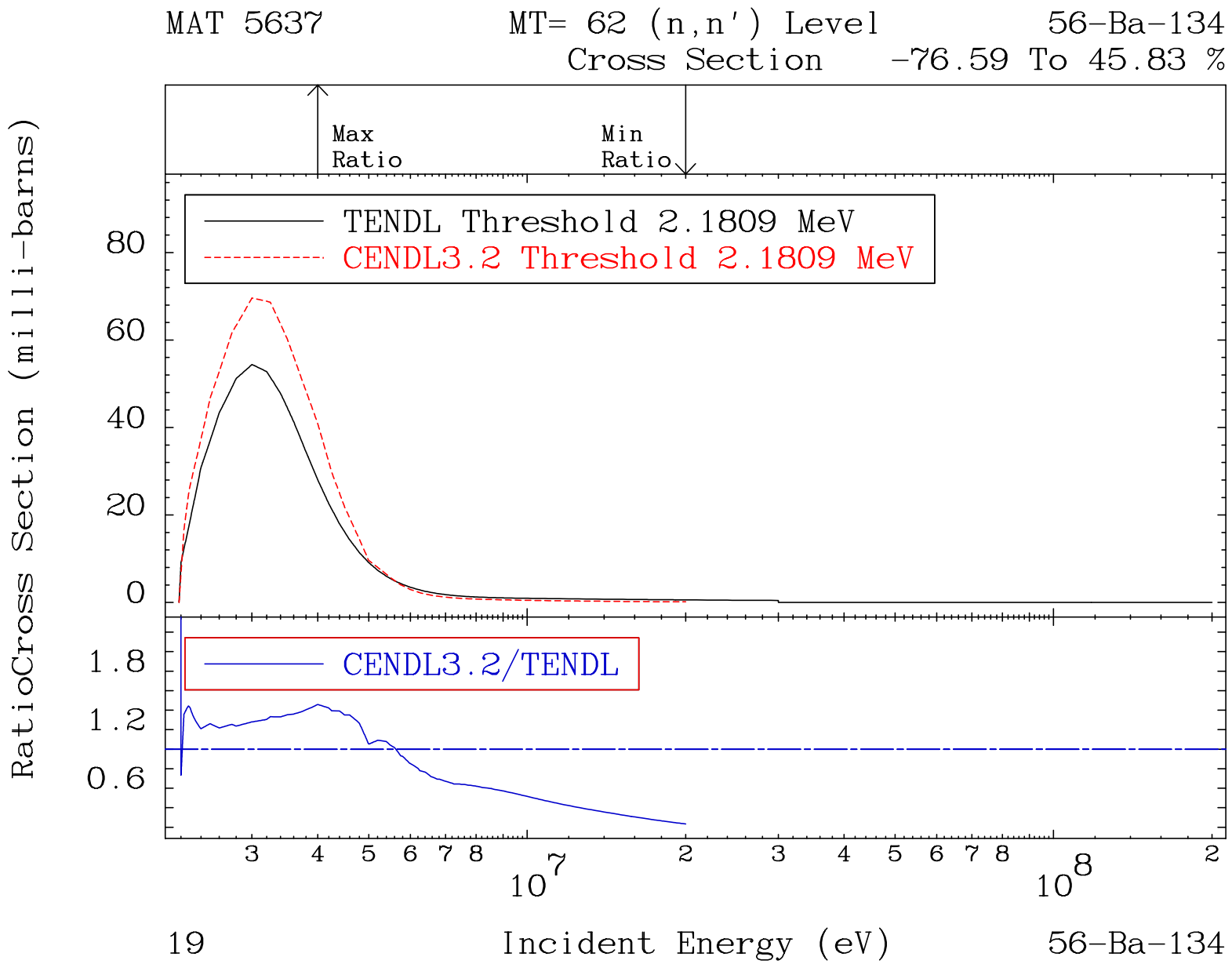

MAT 5637
MT= 57 (n,n') Level
56-Ba-134
Cross Section
-100.0 To 84.02 %
Max
Ratio
TENDL Threshold 2.0013 MeV
CENDL3.2 Threshold 2.0013 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
56-Ba-134

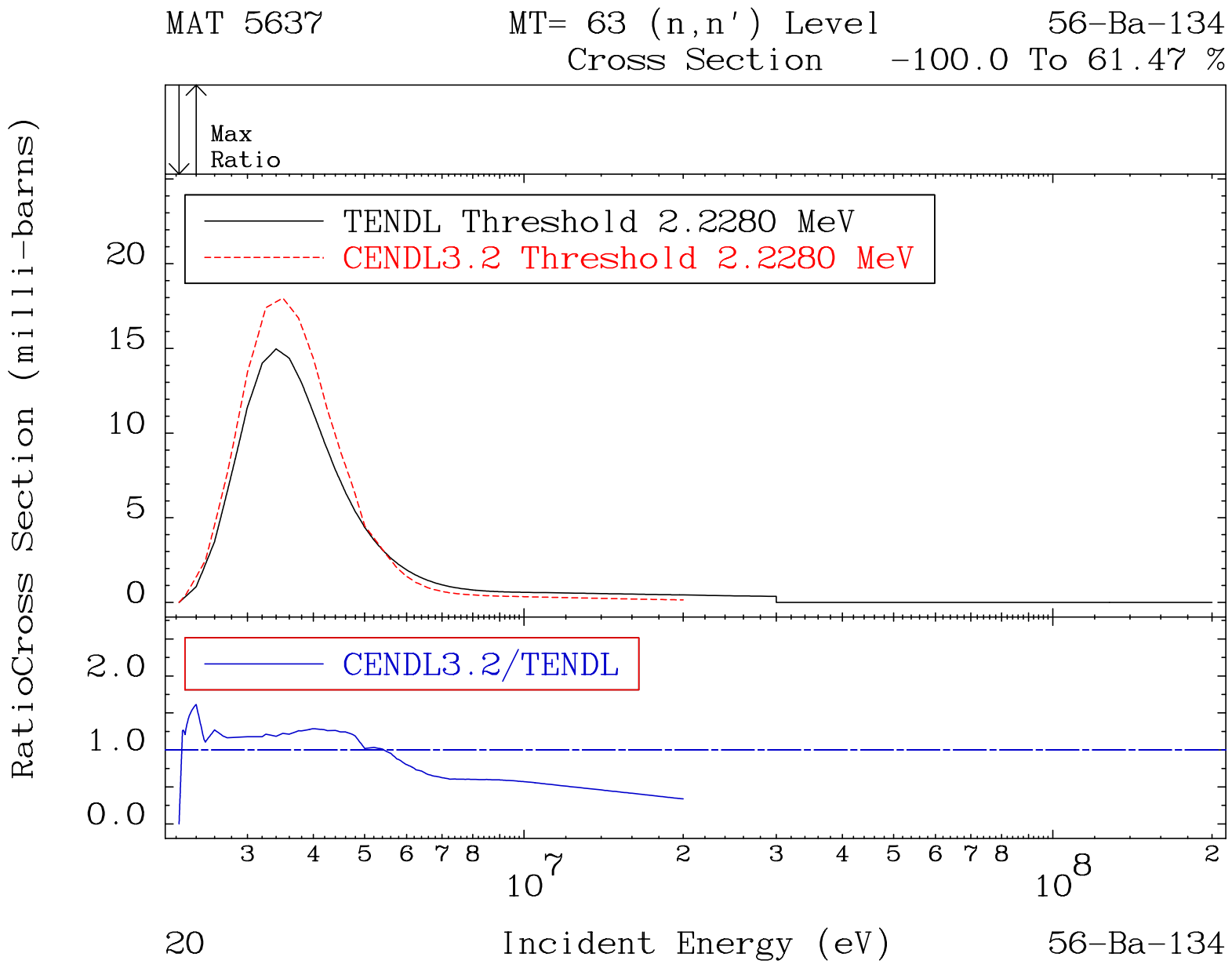

MAT 5637
MT= 58 (n,n') Level
56-Ba-134
Cross Section 28.66 To 1439. %
Min Ratio
Max Ratio
TENDL Threshold 2.0445 MeV
CENDL3.2 Threshold 2.0445 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
10^1
4
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
56-Ba-134

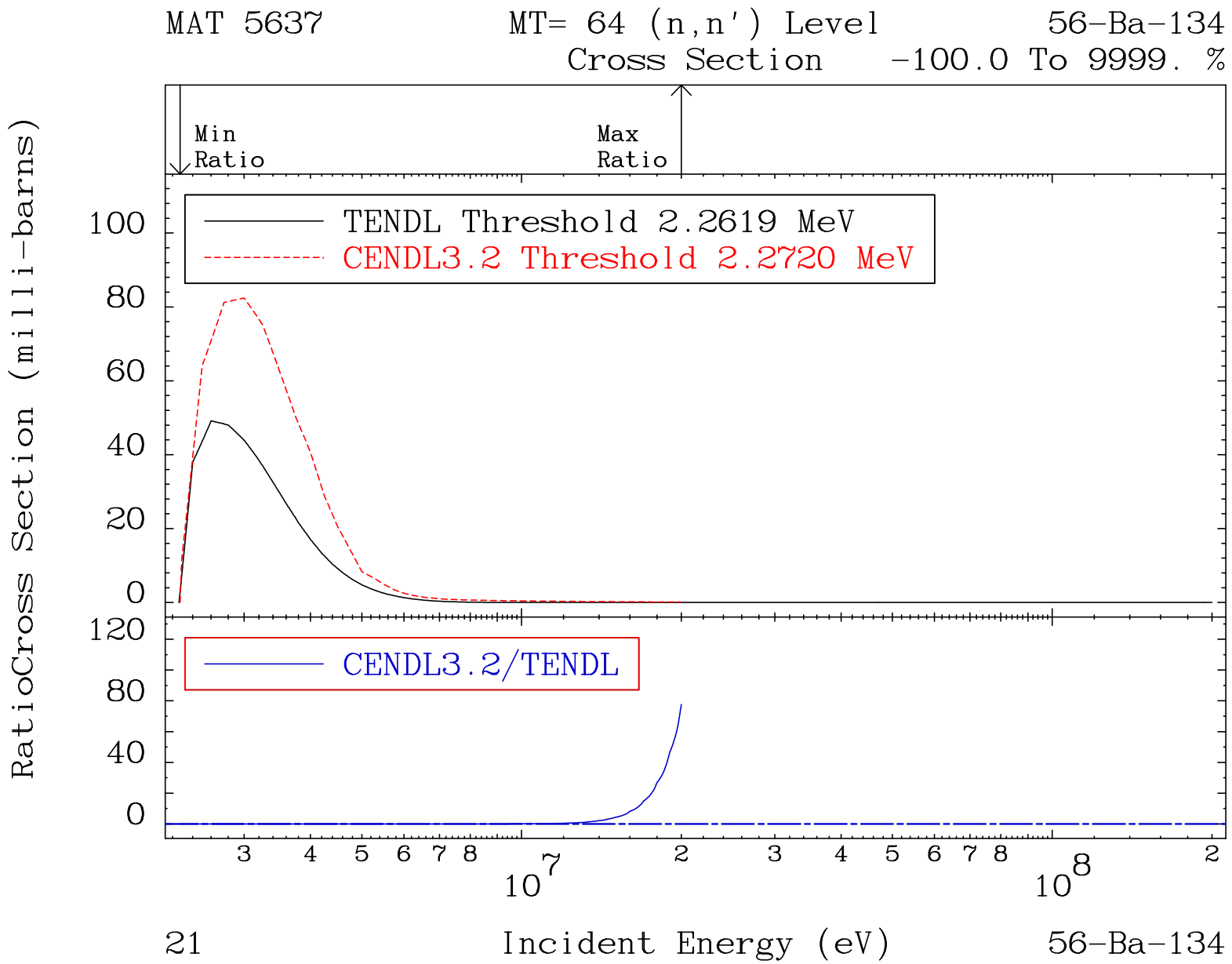

MAT 5637
MT= 59 (n,n') Level
56-Ba-134
Cross Section -100.0 To 1438. %
Min Ratio
Max Ratio
TENDL Threshold 2.1040 MeV
CENDL3.2 Threshold 2.1040 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
20
10
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
56-Ba-134

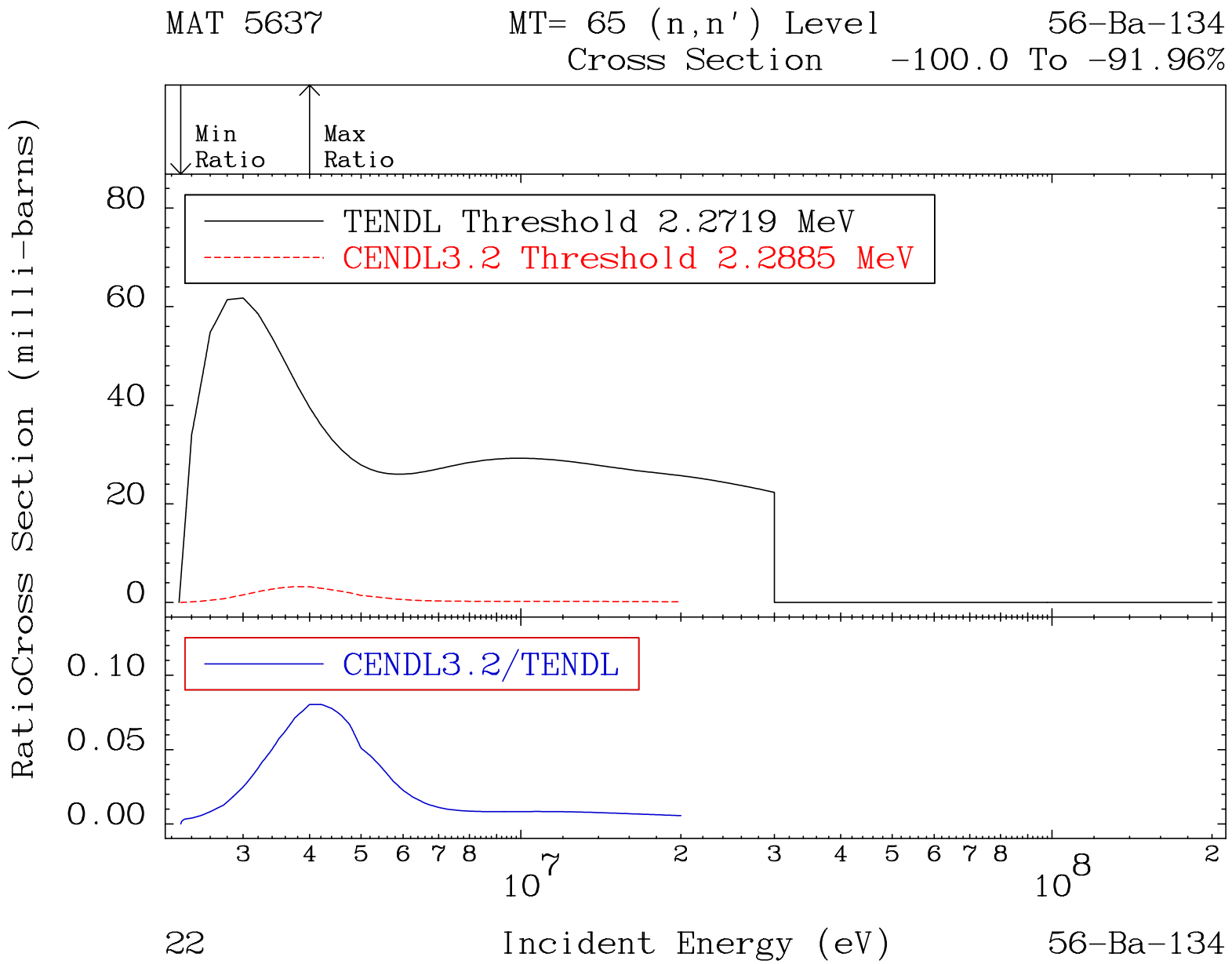

MAT 5637
MT= 60 (n,n') Level
56-Ba-134
Cross Section -100.0 To 48.96 %
Max
Ratio
TENDL Threshold 2.1342 MeV
CENDL3.2 Threshold 2.1342 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
56-Ba-134

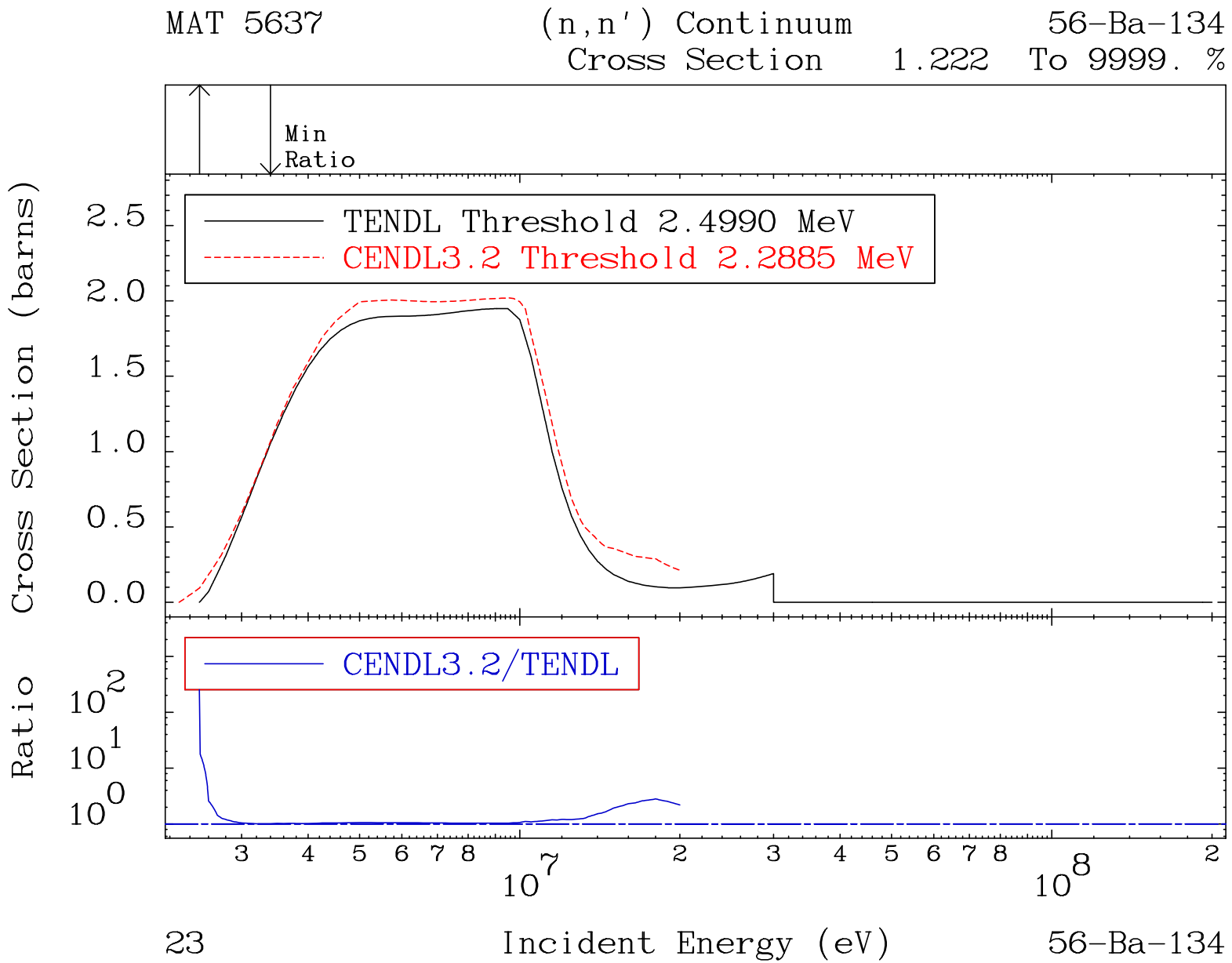

MAT 5637
MT= 61 (n,n') Level
56-Ba-134
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1760 MeV
CENDL3.2 Threshold 2.1760 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
56-Ba-134

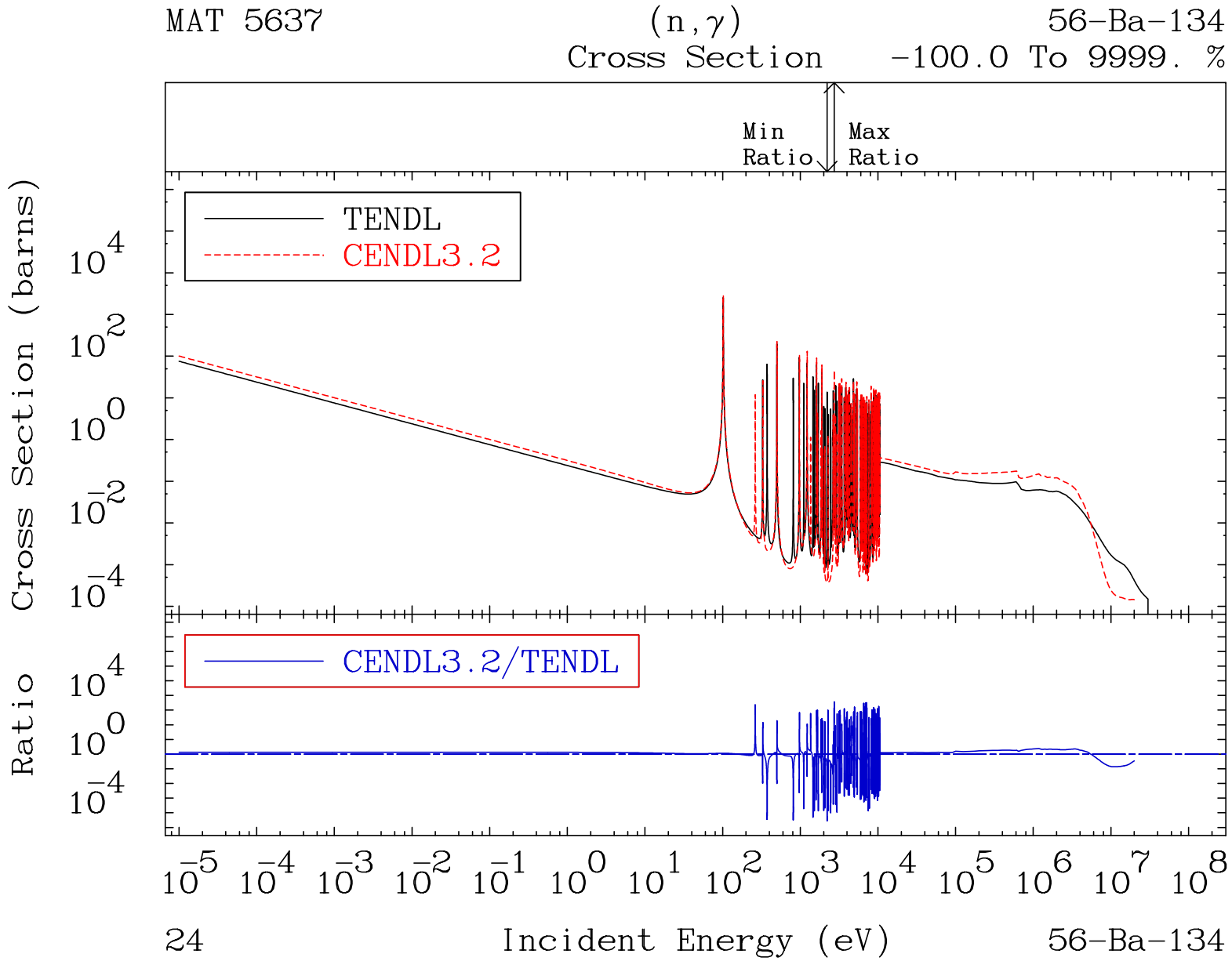

MAT 5637
MT= 62 (n,n') Level
56-Ba-134
Cross Section -76.59 To 45.83 %
Max Ratio
Min Ratio
TENDL Threshold 2.1809 MeV
CENDL3.2 Threshold 2.1809 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.8
1.2
0.6
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
56-Ba-134

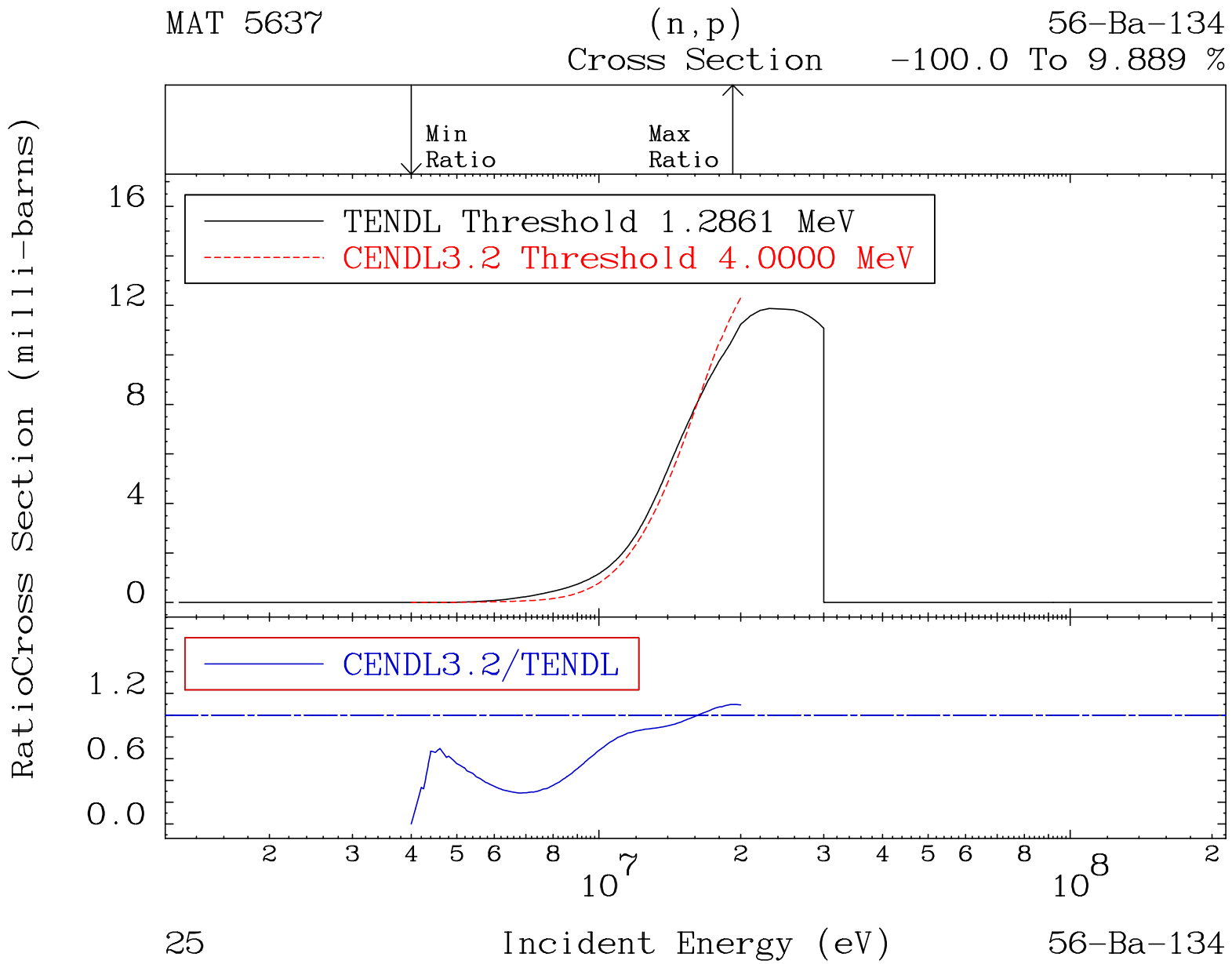

MAT 5637
MT= 63 (n,n') Level
56-Ba-134
Cross Section -100.0 To 61.47 %
Max
Ratio
TENDL Threshold 2.2280 MeV
CENDL3.2 Threshold 2.2280 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
56-Ba-134

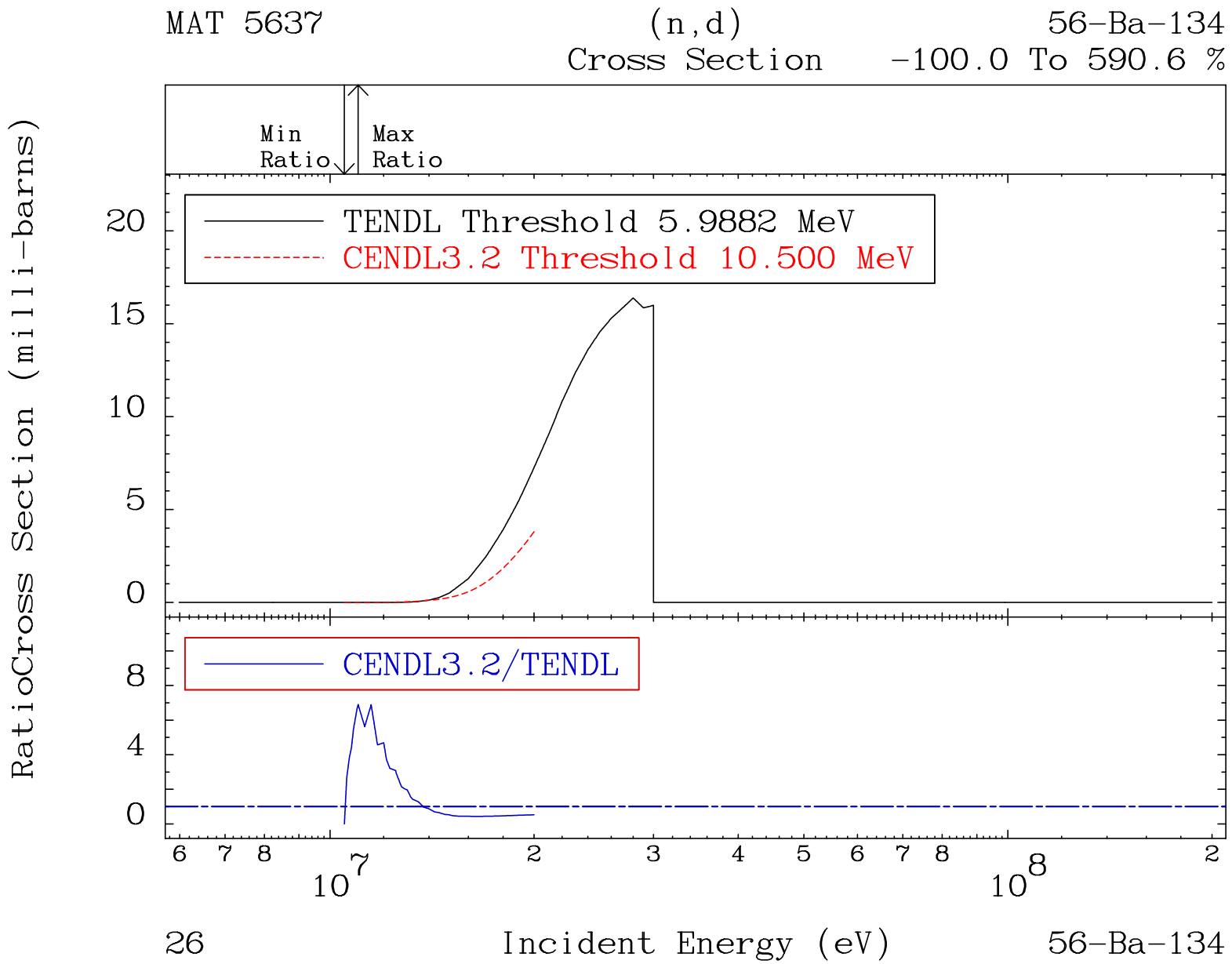

MAT 5637
MT= 64 (n,n') Level
56-Ba-134
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.2619 MeV
CENDL3.2 Threshold 2.2720 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
120
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
56-Ba-134

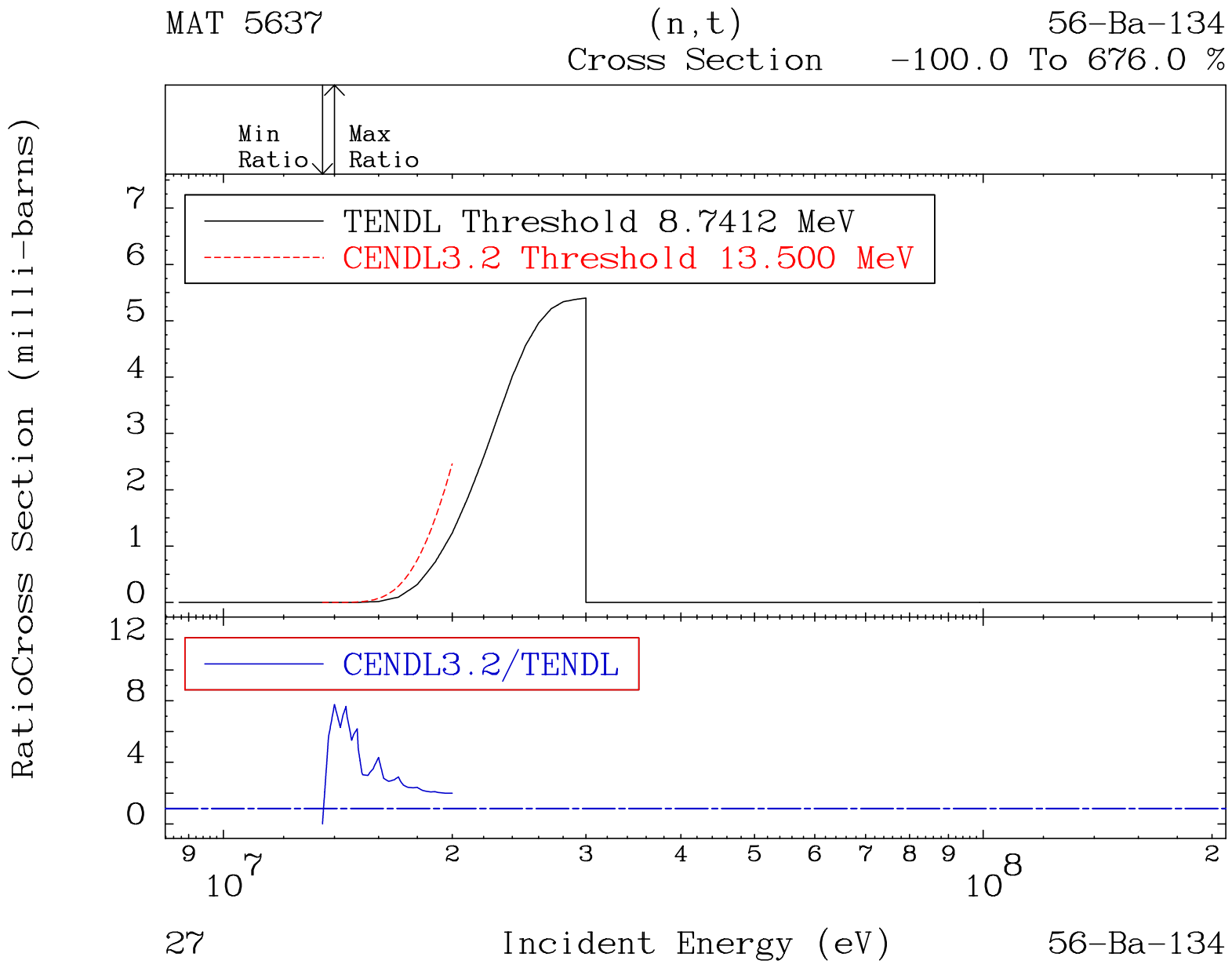

MAT 5637
MT= 65 (n,n') Level
56-Ba-134
Cross Section -100.0 To -91.96%
Min Ratio
Max Ratio
TENDL Threshold 2.2719 MeV
CENDL3.2 Threshold 2.2885 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
0.10
0.05
0.00
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
56-Ba-134

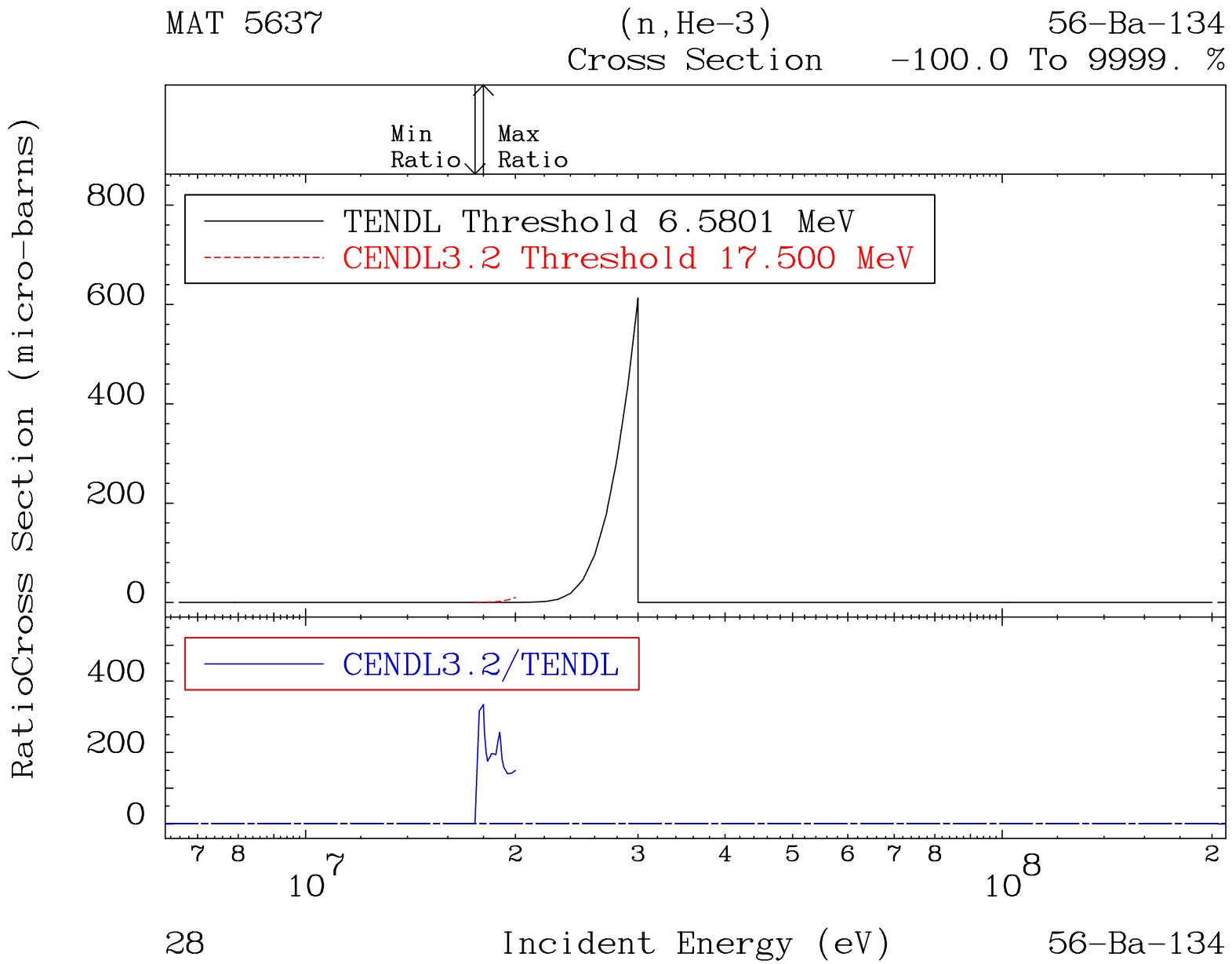

MAT 5637
(n,n') Continuum
Cross Section
56-Ba-134
1.222
To 9999. %
Min
Ratio
TENDL Threshold 2.4990 MeV
CENDL3.2 Threshold 2.2885 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
56-Ba-134

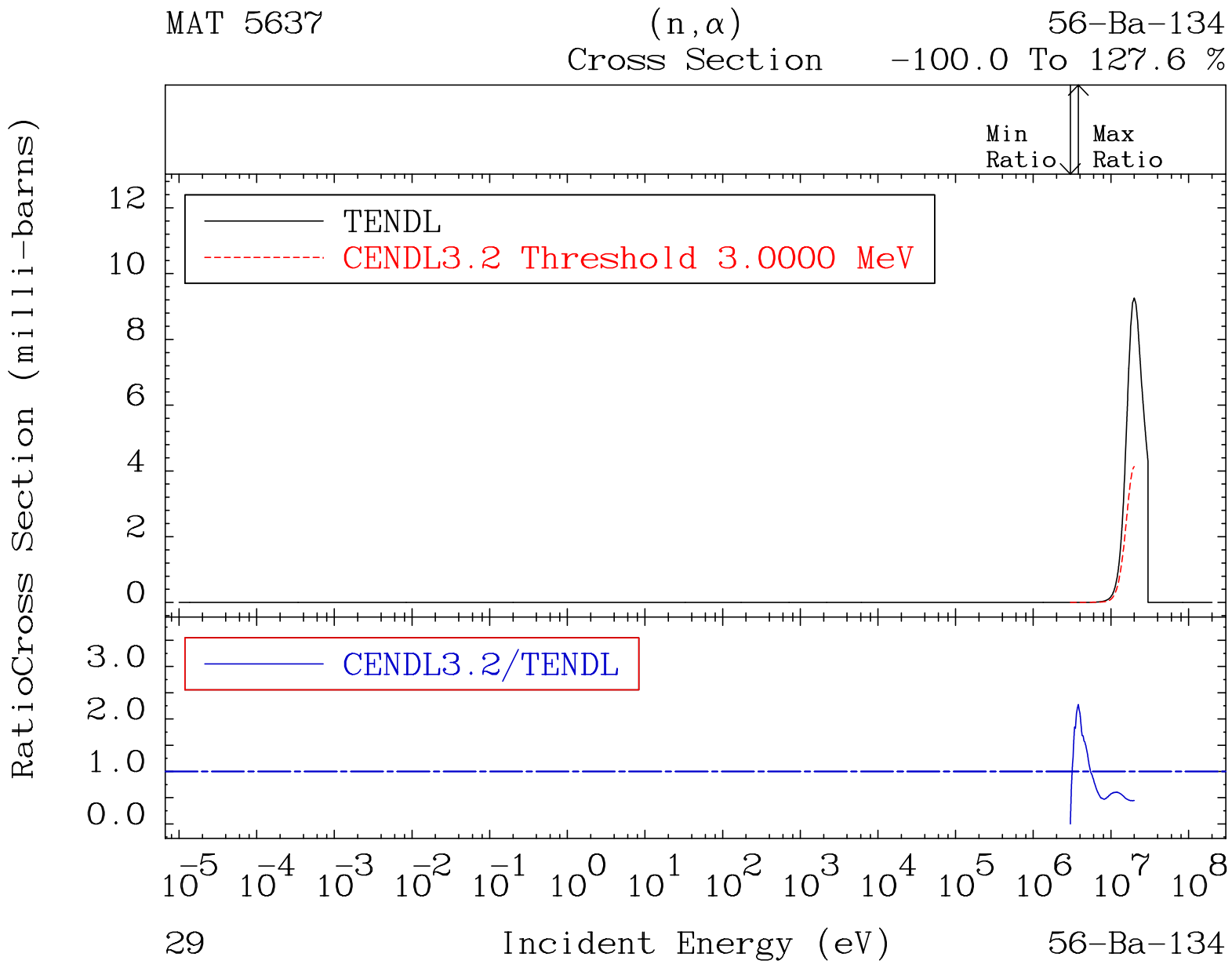

MAT 5637
(n,γ)
Cross Section
56-Ba-134
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
24
56-Ba-134

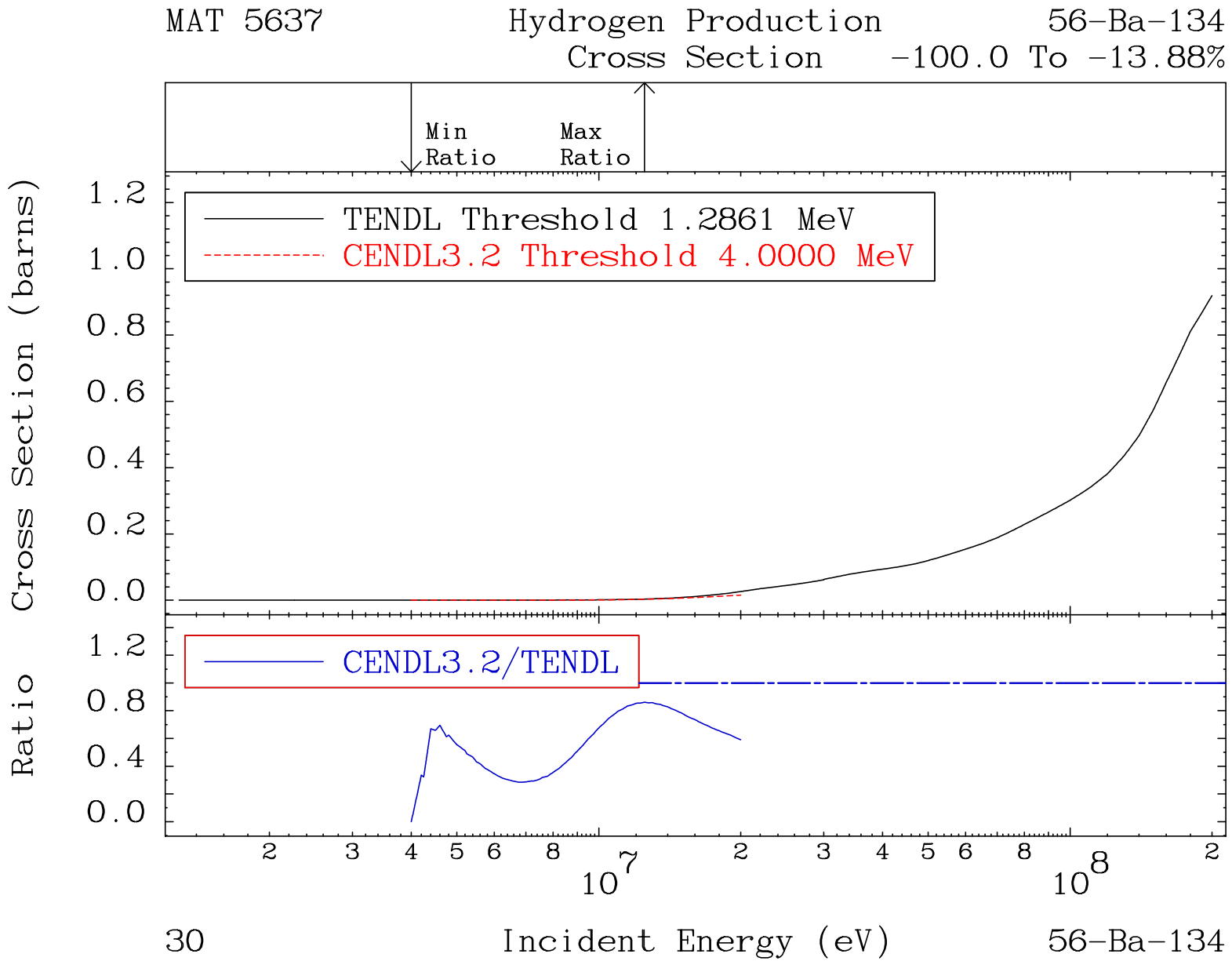

MAT 5637
(n,p)
Cross Section
56-Ba-134
-100.0 To 9.889 %
Min Ratio
Max Ratio
TENDL Threshold 1.2861 MeV
CENDL3.2 Threshold 4.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
25
Incident Energy (eV)
56-Ba-134

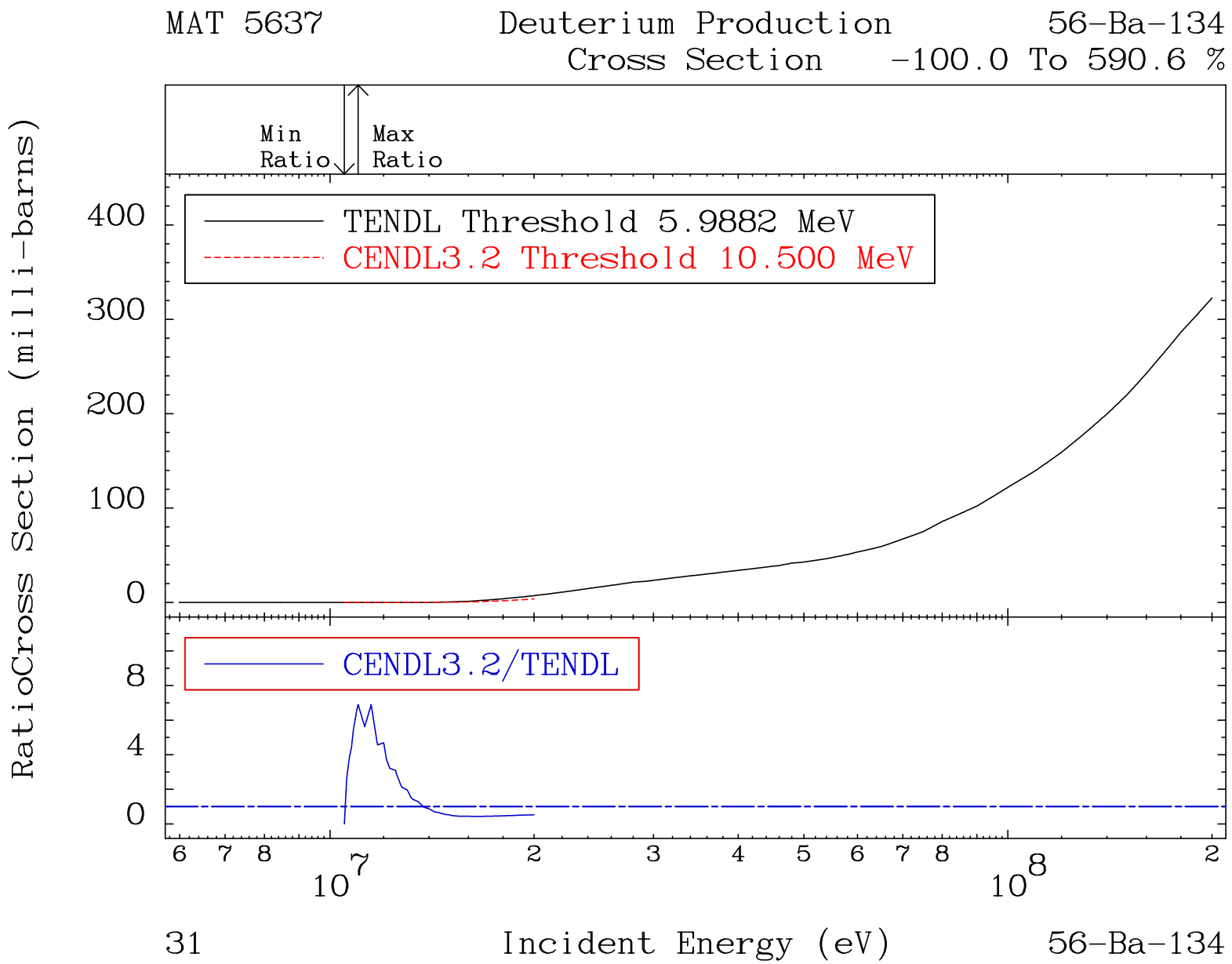

MAT 5637
(n,d)
Cross Section
56-Ba-134
-100.0 To 590.6 %
Min Ratio
Max Ratio
TENDL Threshold 5.9882 MeV
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
56-Ba-134

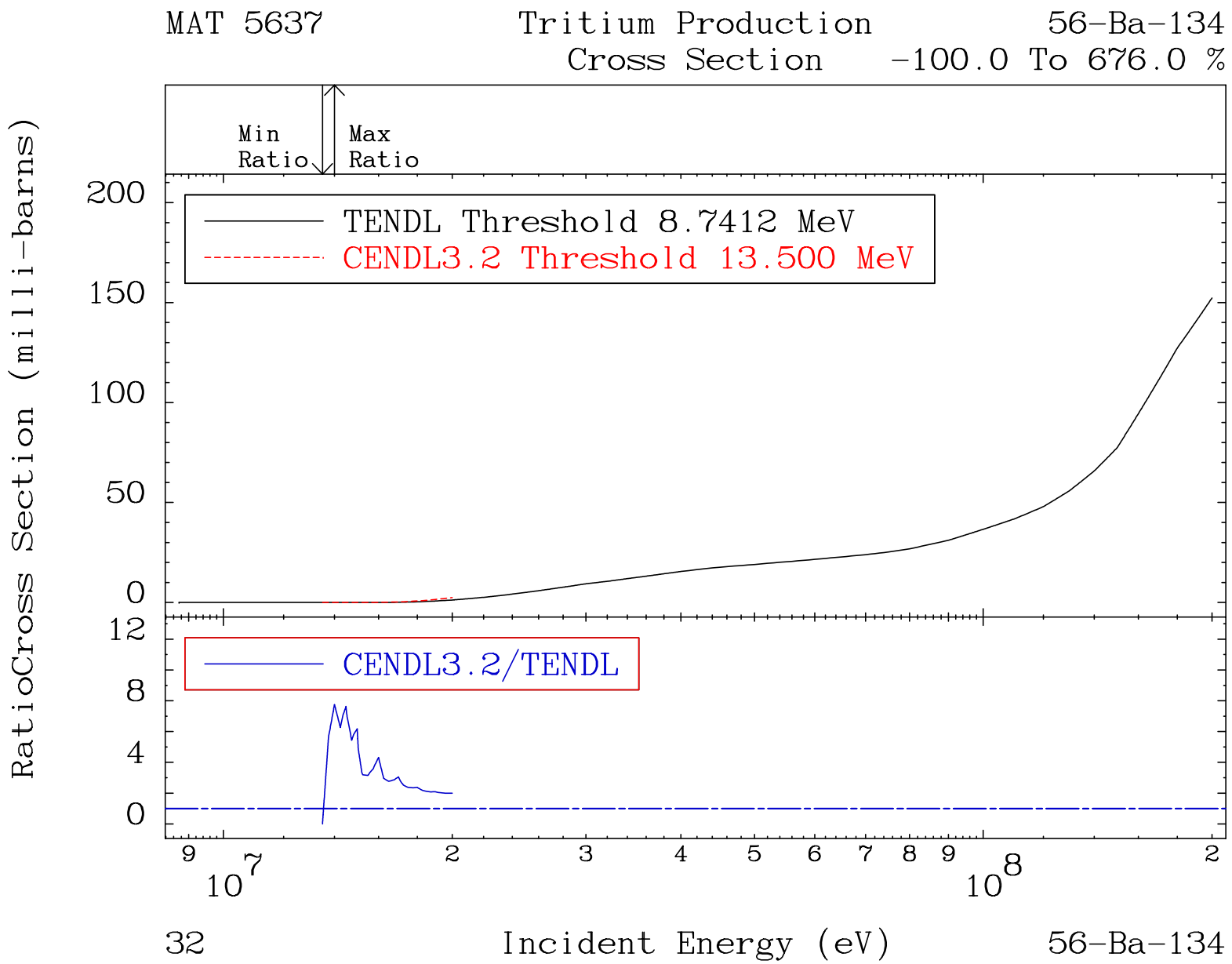

MAT 5637
(n,t)
Cross Section
56-Ba-134
-100.0 To 676.0 %
Min Ratio
Max Ratio
TENDL Threshold 8.7412 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
27
56-Ba-134

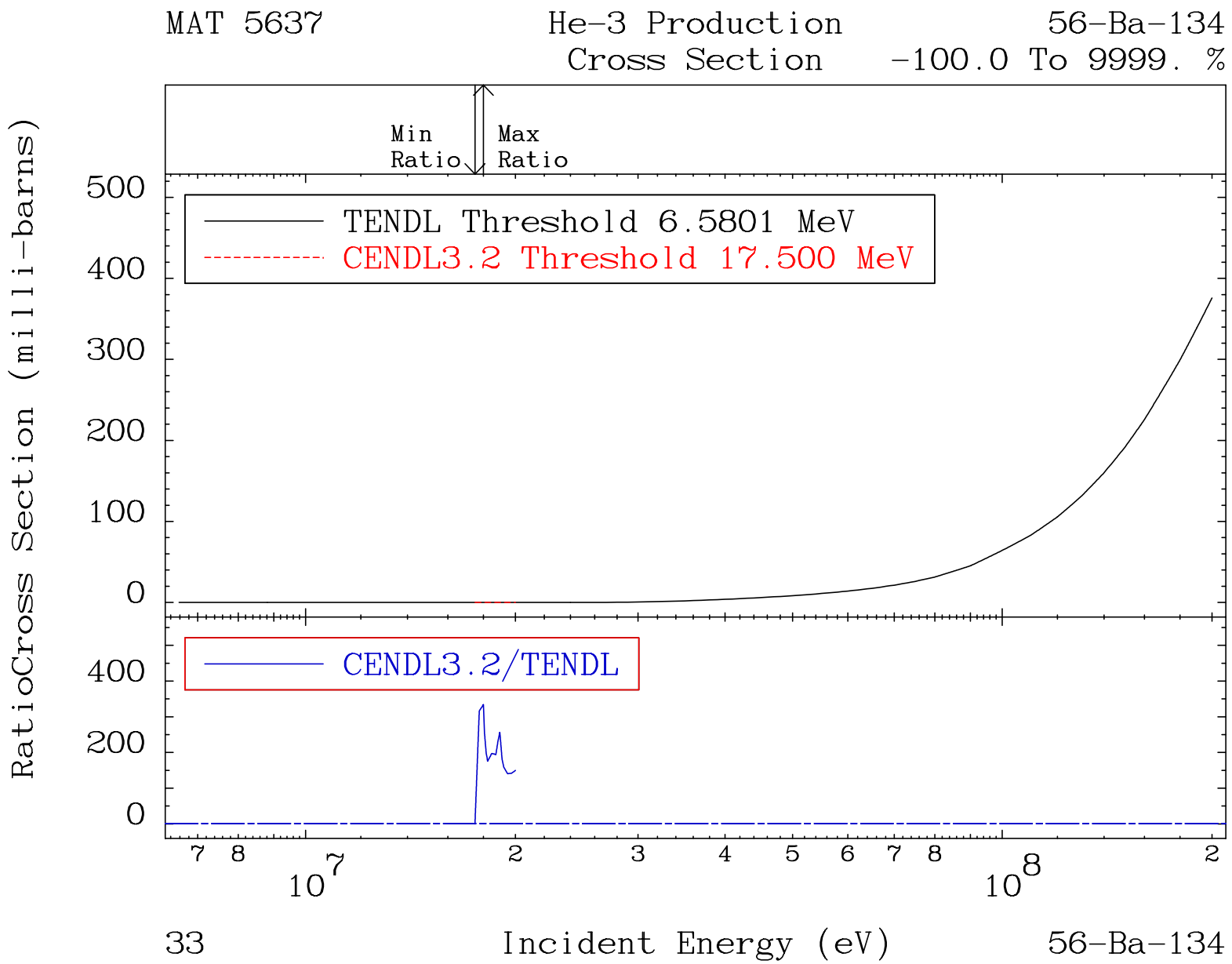

MAT 5637
(n,He-3)
56-Ba-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.5801 MeV
CENDL3.2 Threshold 17.500 MeV
CENDL3.2/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
56-Ba-134

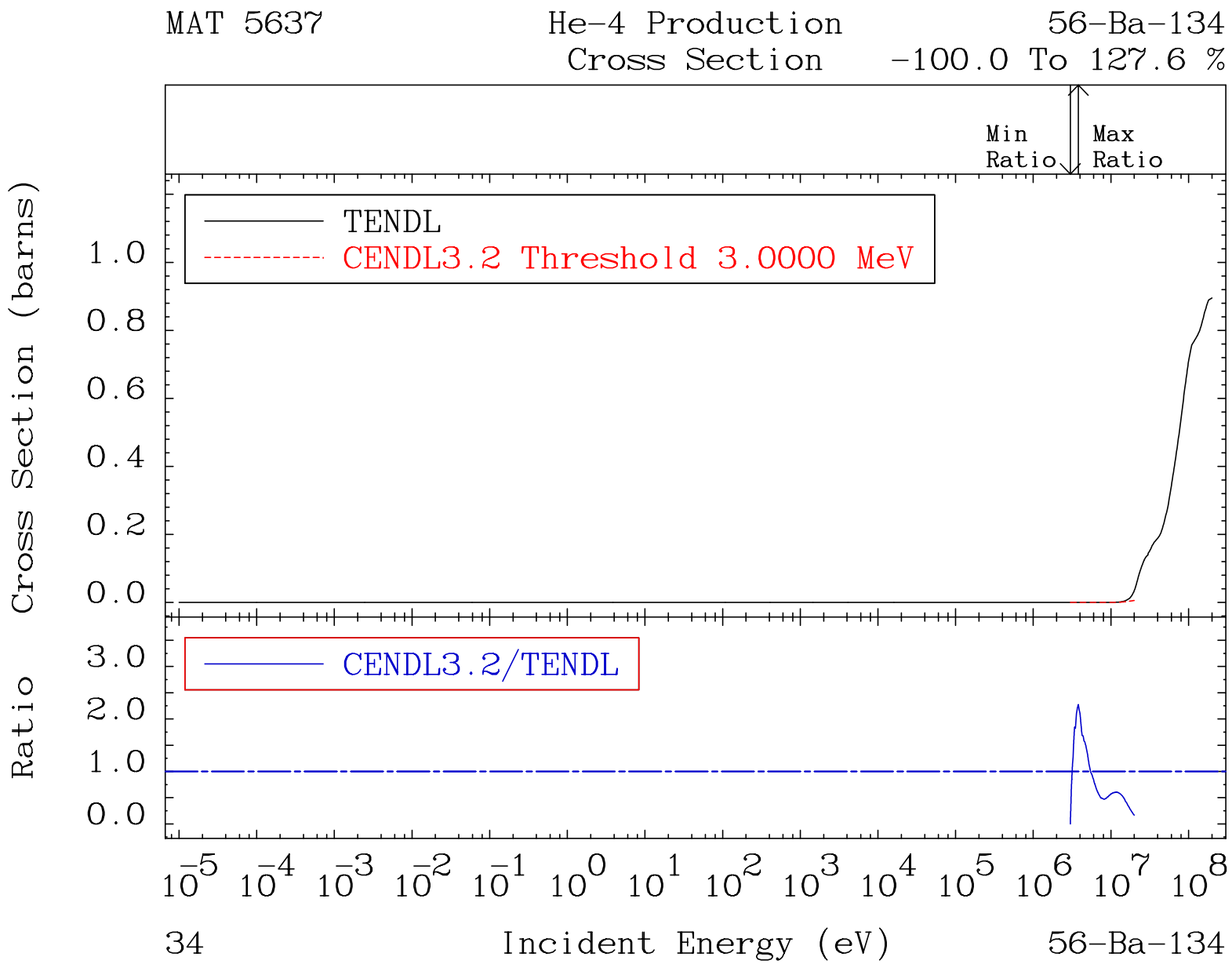

MAT 5637
(n,α)
56-Ba-134
Cross Section
-100.0 To 127.6 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 3.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
56-Ba-134

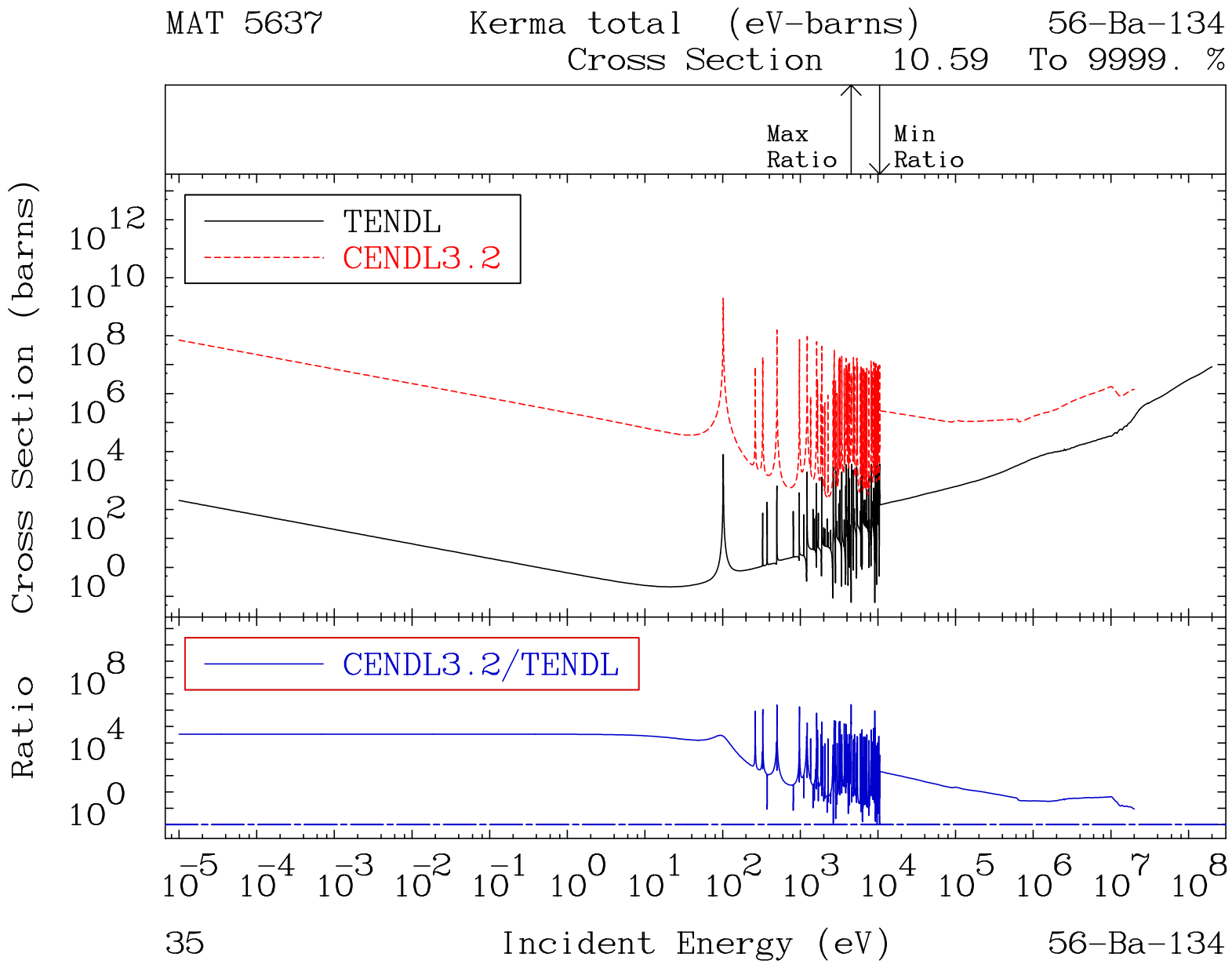

MAT 5637
Hydrogen Production
56-Ba-134
Cross Section -100.0 To -13.88%
Min Ratio
Max Ratio
TENDL Threshold 1.2861 MeV
CENDL3.2 Threshold 4.0000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
30
56-Ba-134

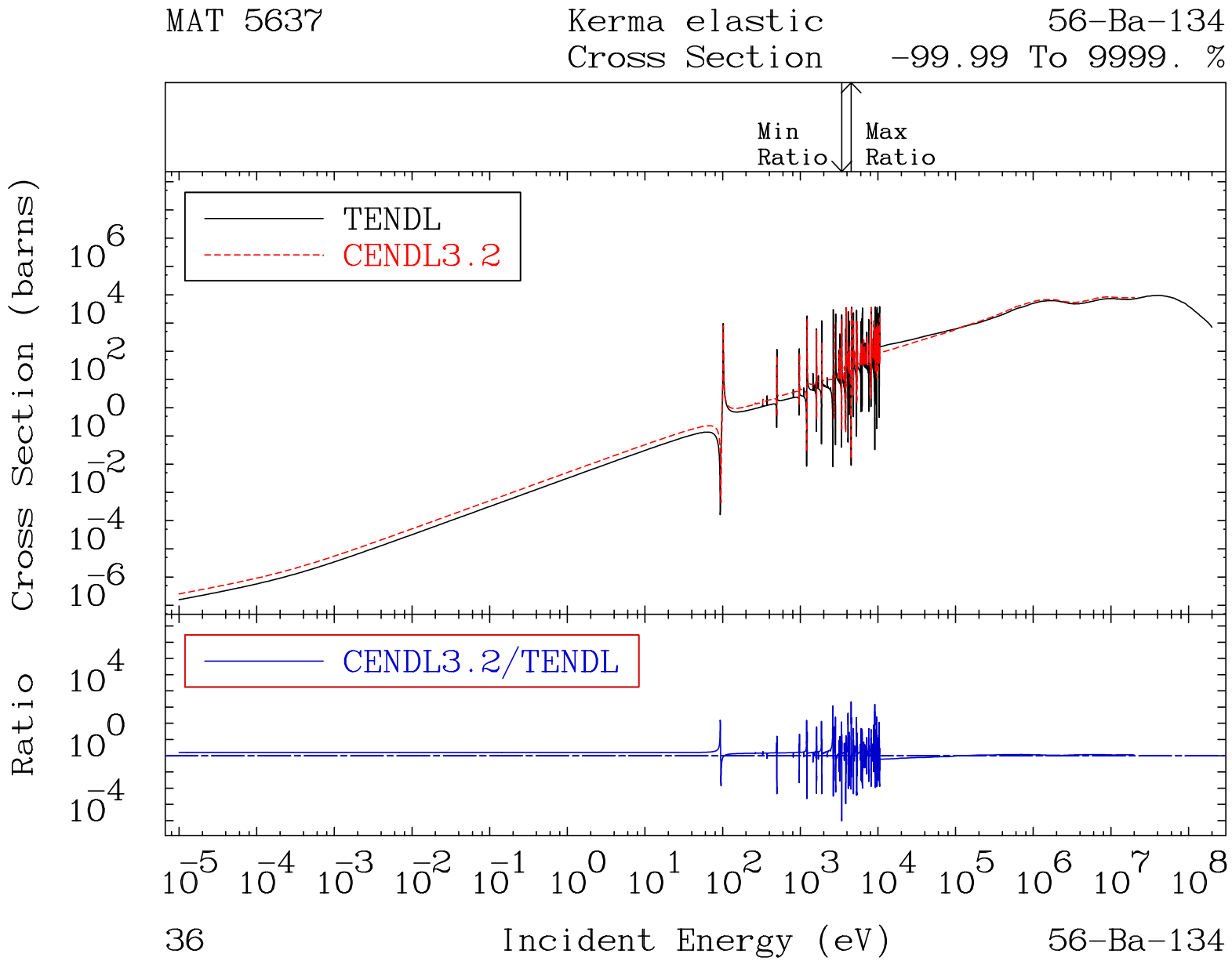

MAT 5637
Deuterium Production
56-Ba-134
Cross Section
-100.0 To 590.6 %
Min Ratio
Max Ratio
TENDL Threshold 5.9882 MeV
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
8
4
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
56-Ba-134

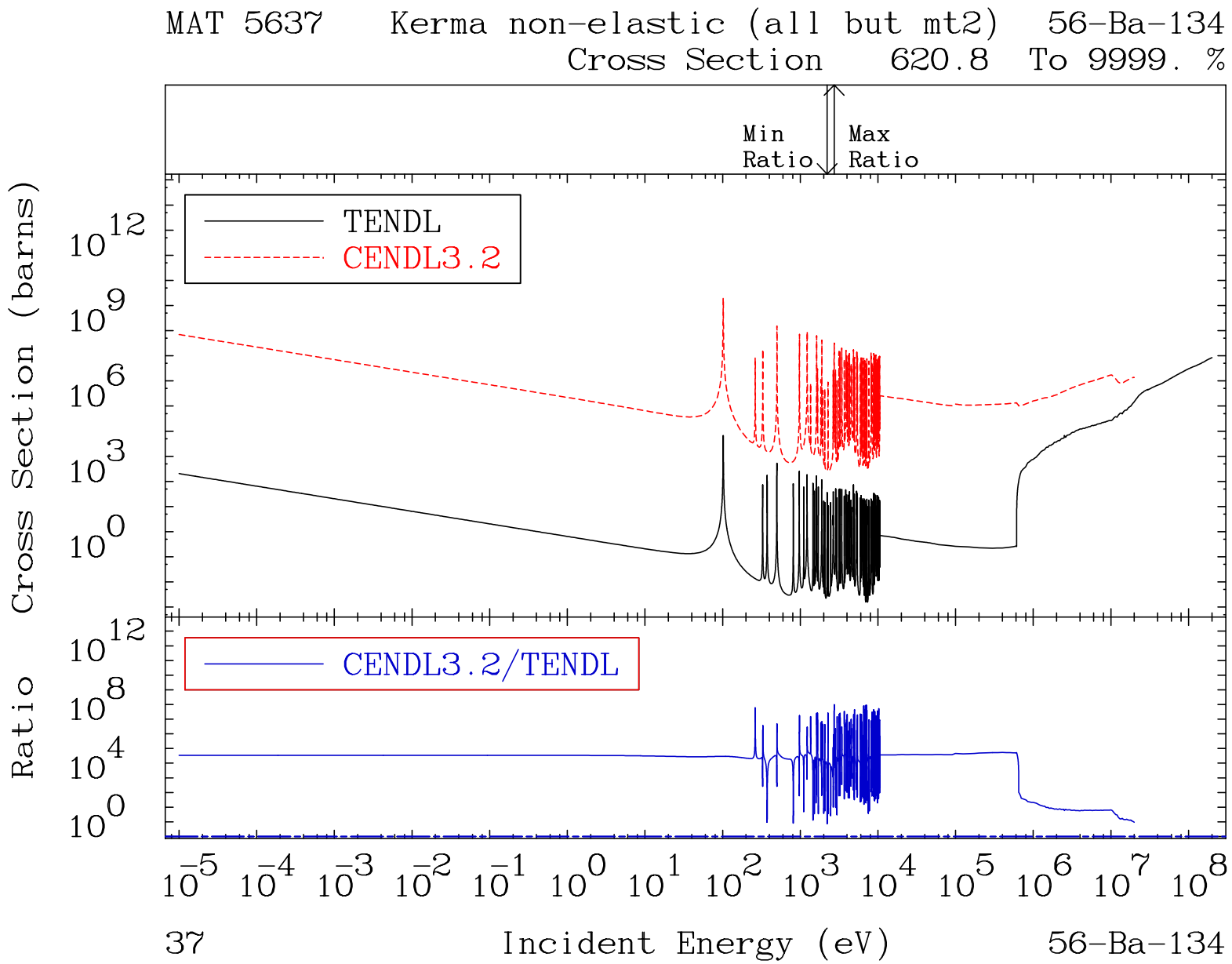

MAT 5637
Tritium Production
56-Ba-134
Cross Section
-100.0 To 676.0 %
Min Ratio
Max Ratio
TENDL Threshold 8.7412 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
12
8
4
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
32
Incident Energy (eV)
56-Ba-134

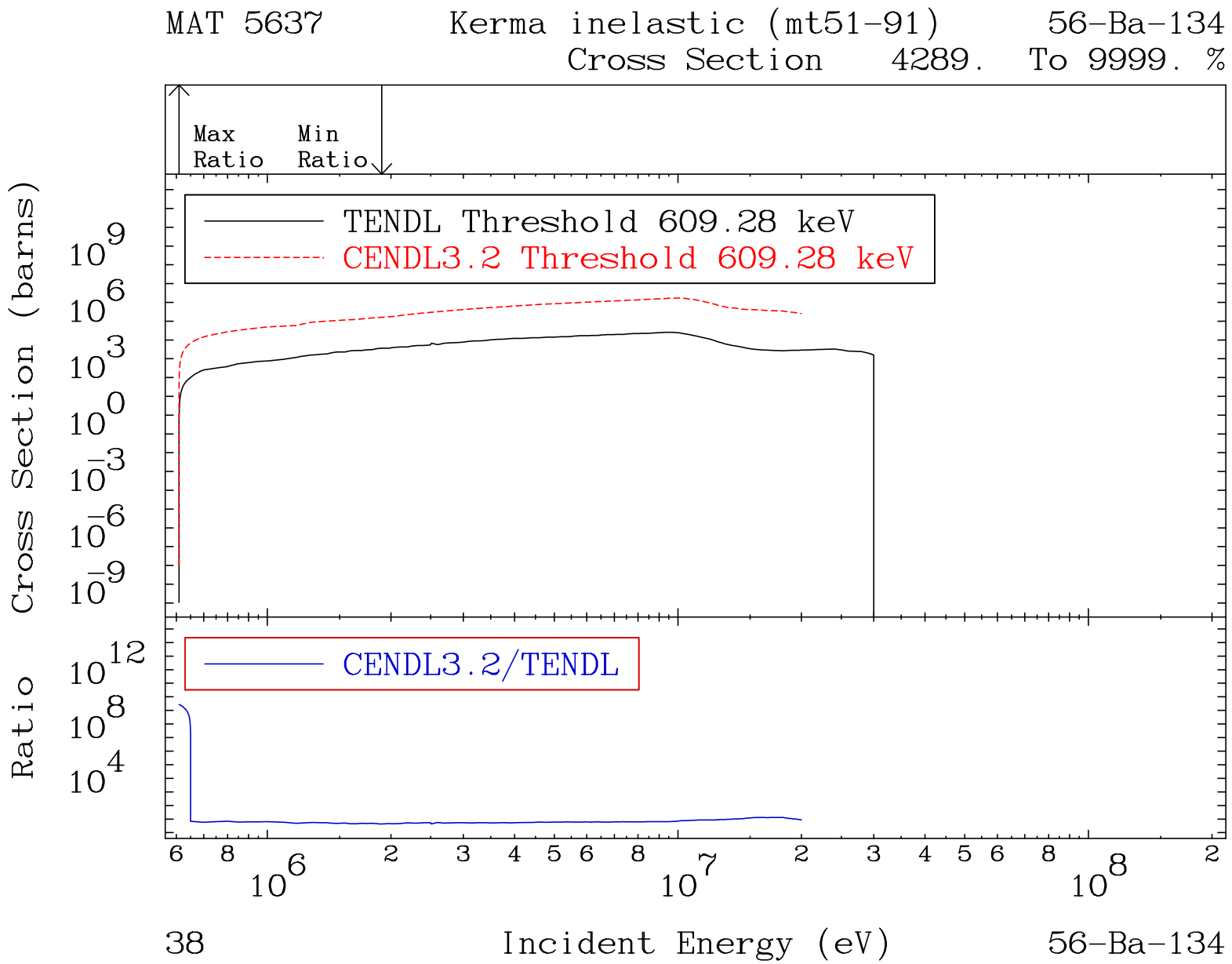

MAT 5637
He-3 Production
Cross Section
56-Ba-134
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.5801 MeV
CENDL3.2 Threshold 17.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
56-Ba-134

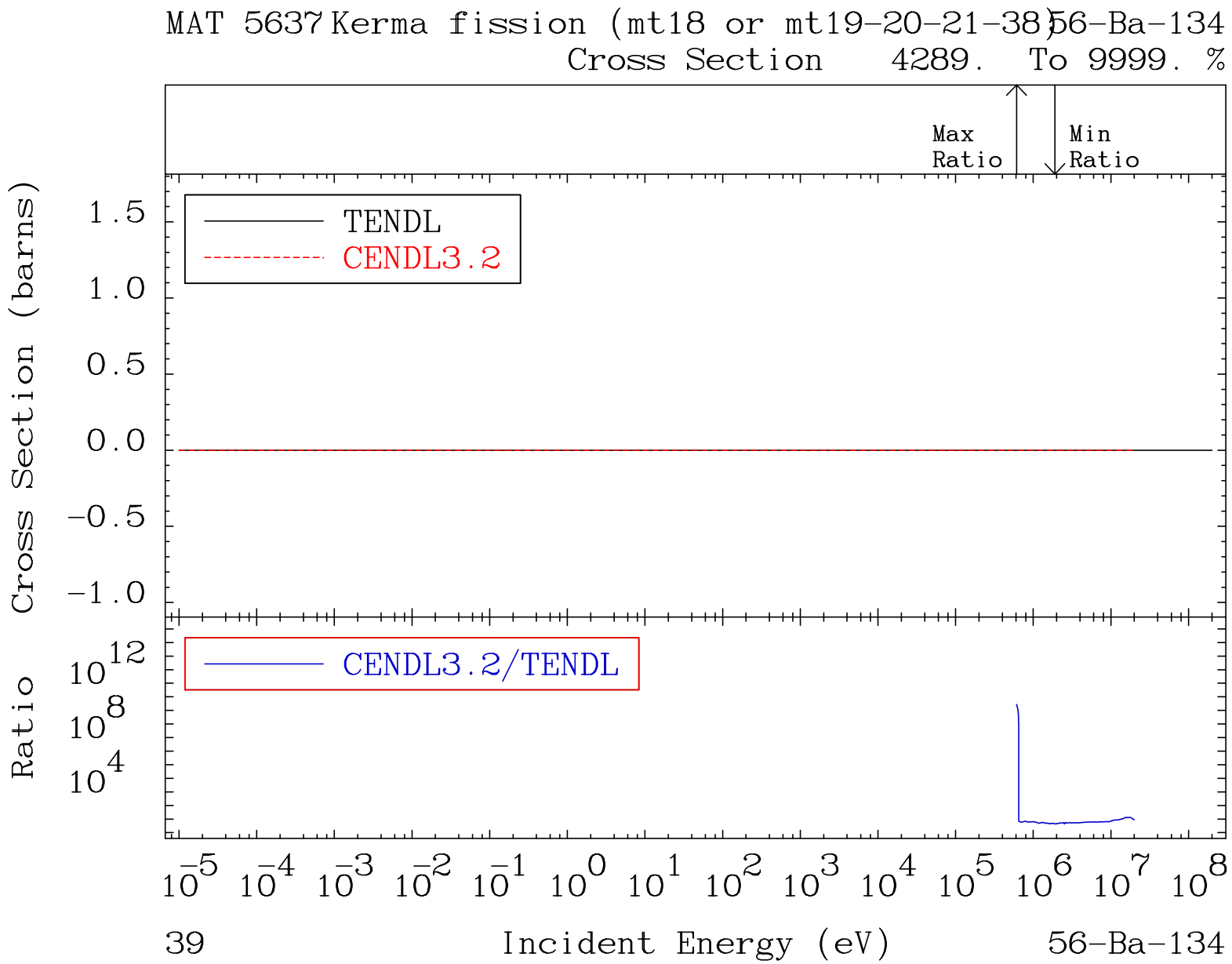

MAT 5637
He-4 Production
Cross Section
56-Ba-134
-100.0 To 127.6 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 3.0000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
56-Ba-134

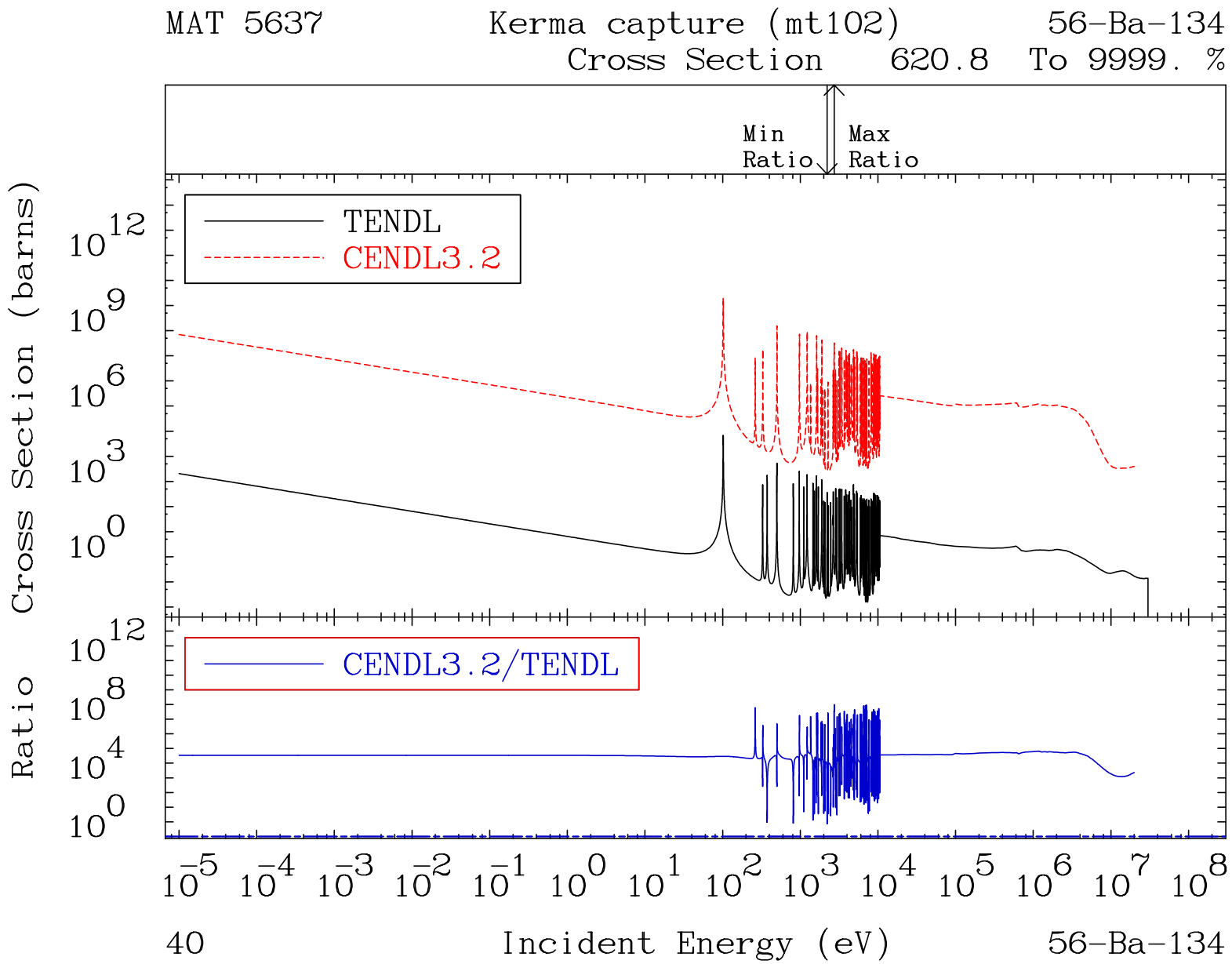

MAT 5637
Kerma total (eV-barns)
56-Ba-134
Cross Section 10.59 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
56-Ba-134

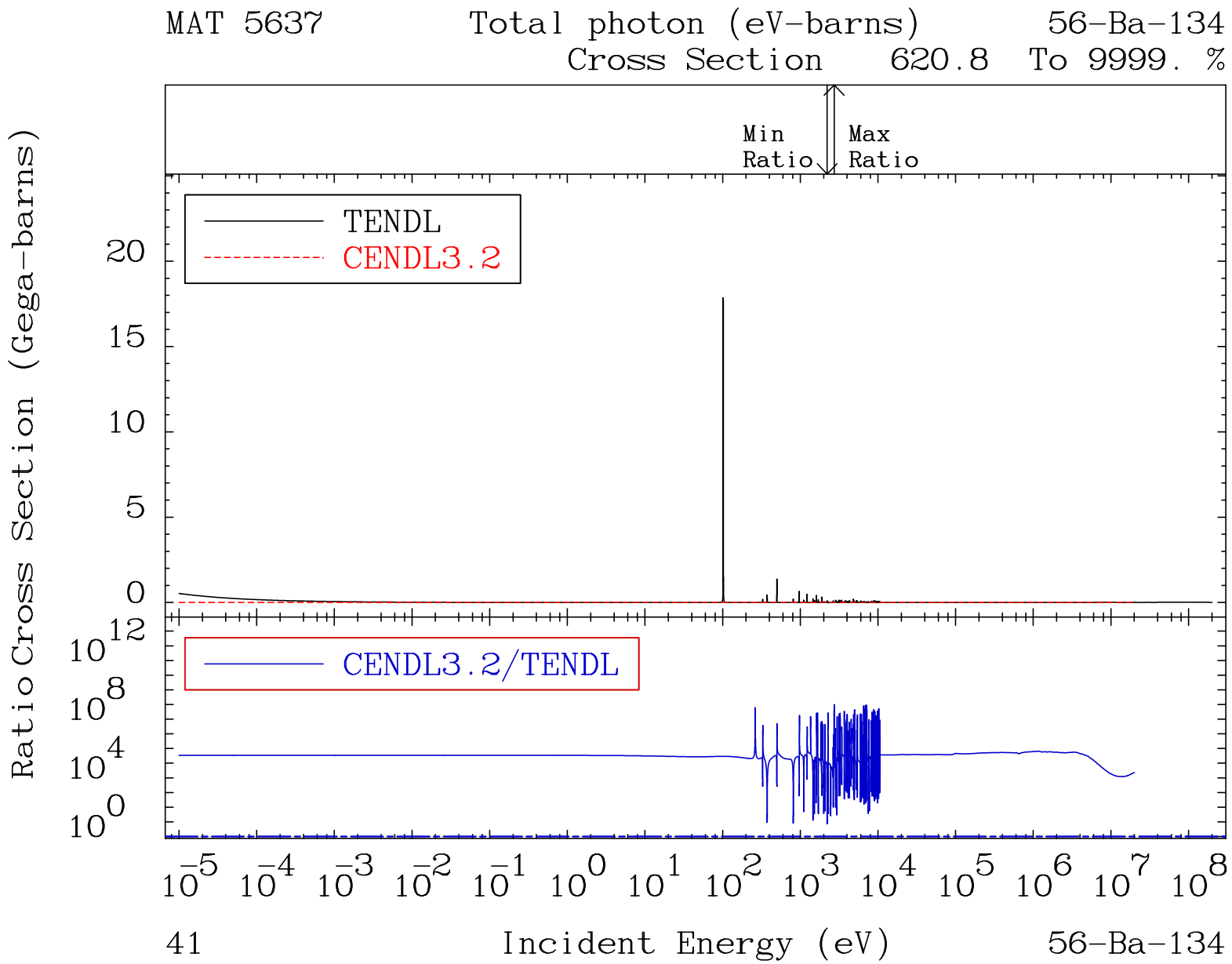

MAT 5637
Kerma elastic
Cross Section
56-Ba-134
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
56-Ba-134

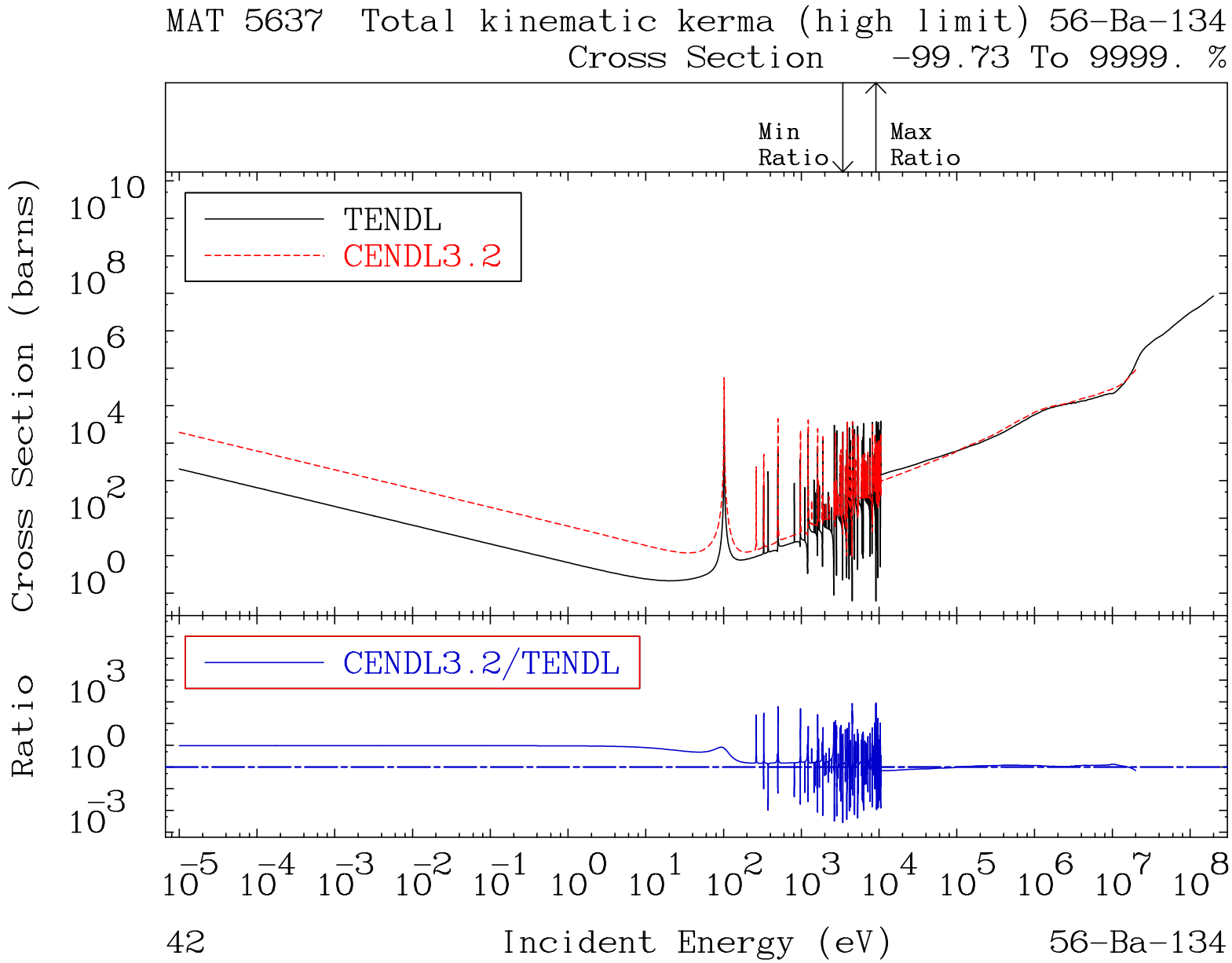

MAT 5637 Kerma non-elastic (all but mt2) 56-Ba-134
Cross Section 620.8 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
56-Ba-134

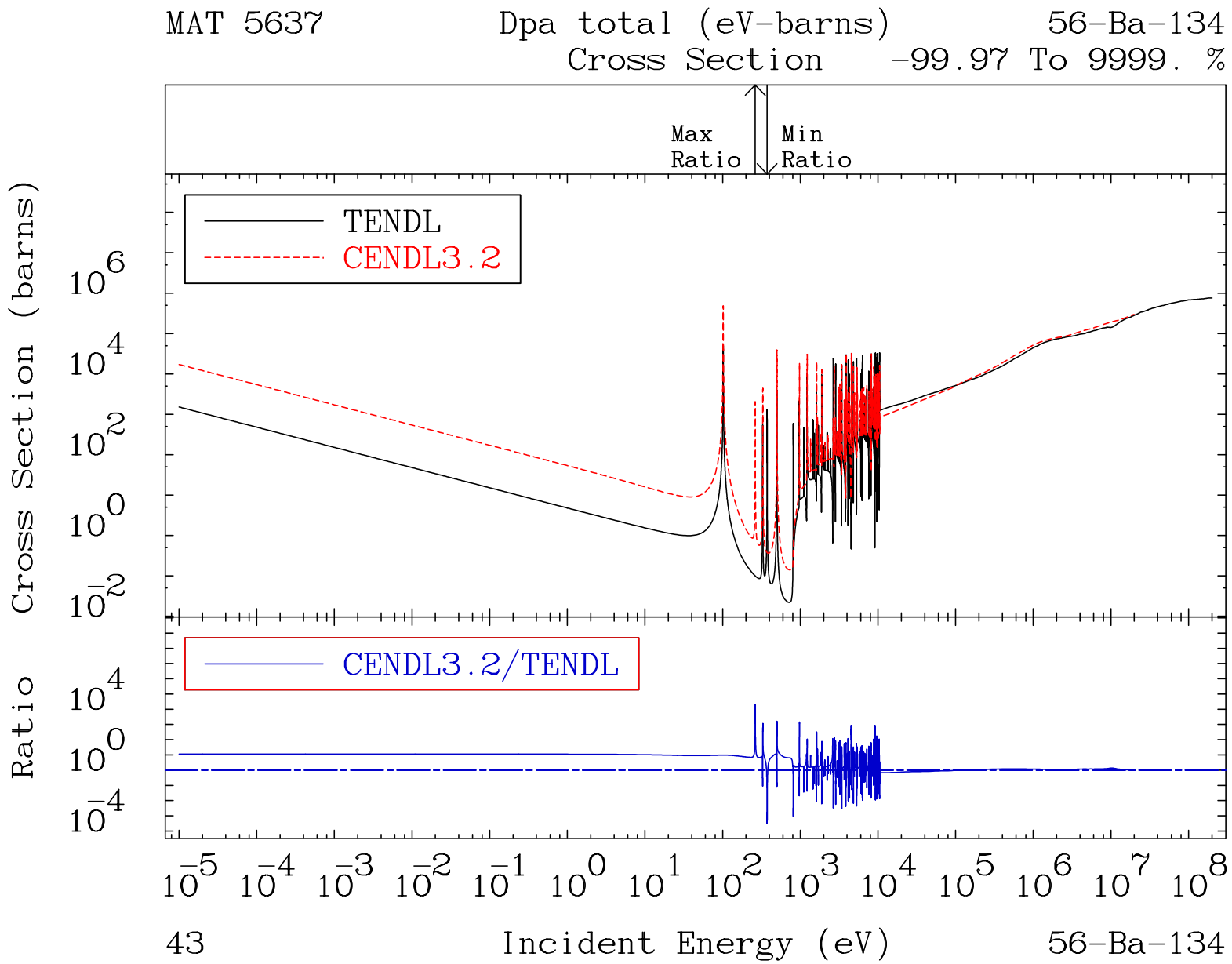

MAT 5637
Kerma inelastic (mt51-91)
56-Ba-134
Cross Section 4289. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 609.28 keV
CENDL3.2 Threshold 609.28 keV
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
10^-9
CENDL3.2/TENDL
Ratio
10^12
10^8
10^4
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
38
Incident Energy (eV)
56-Ba-134

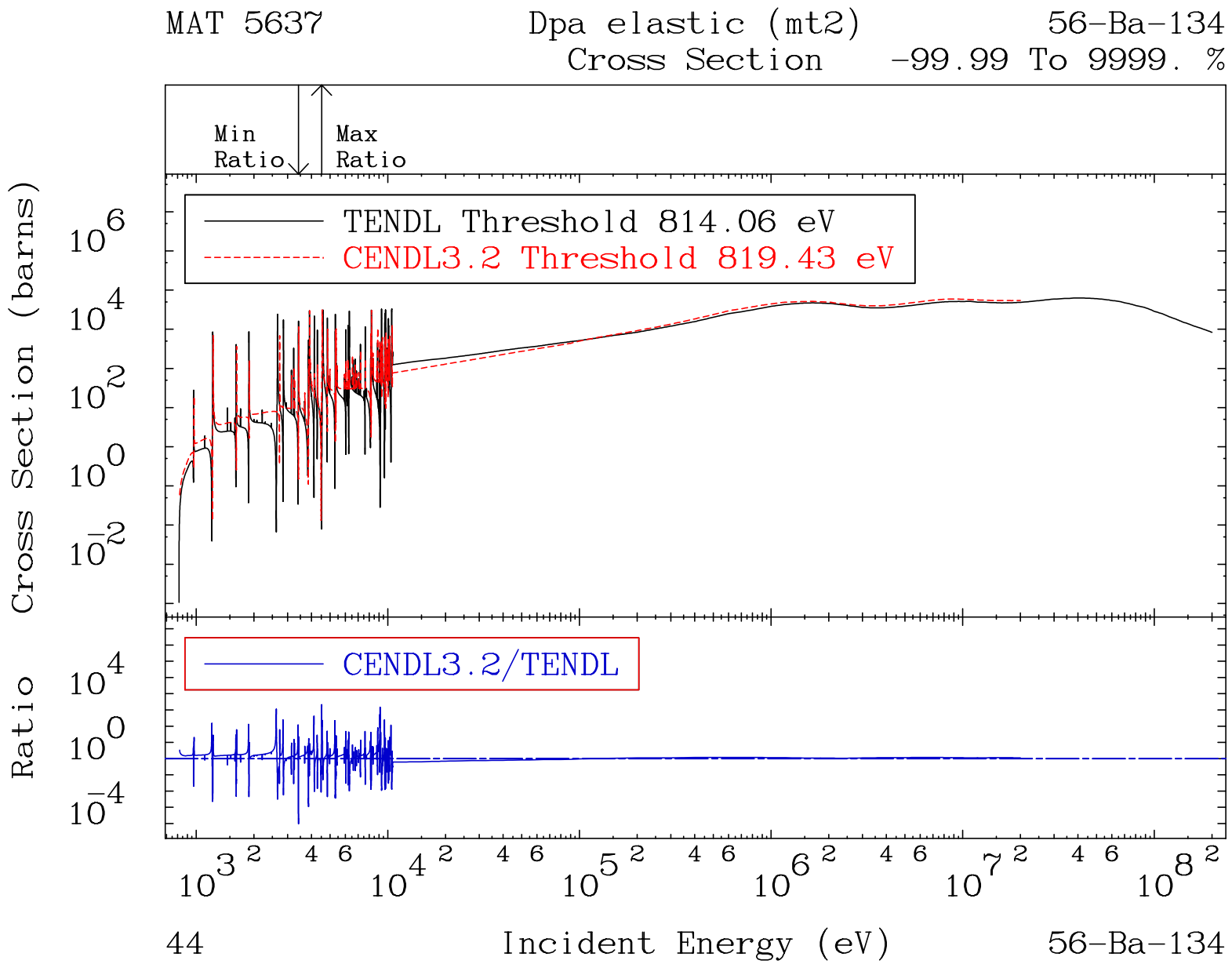

MAT 5637 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-134
Cross Section 4289. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{12}
10^{8}
10^{4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
39
Incident Energy (eV)
56-Ba-134

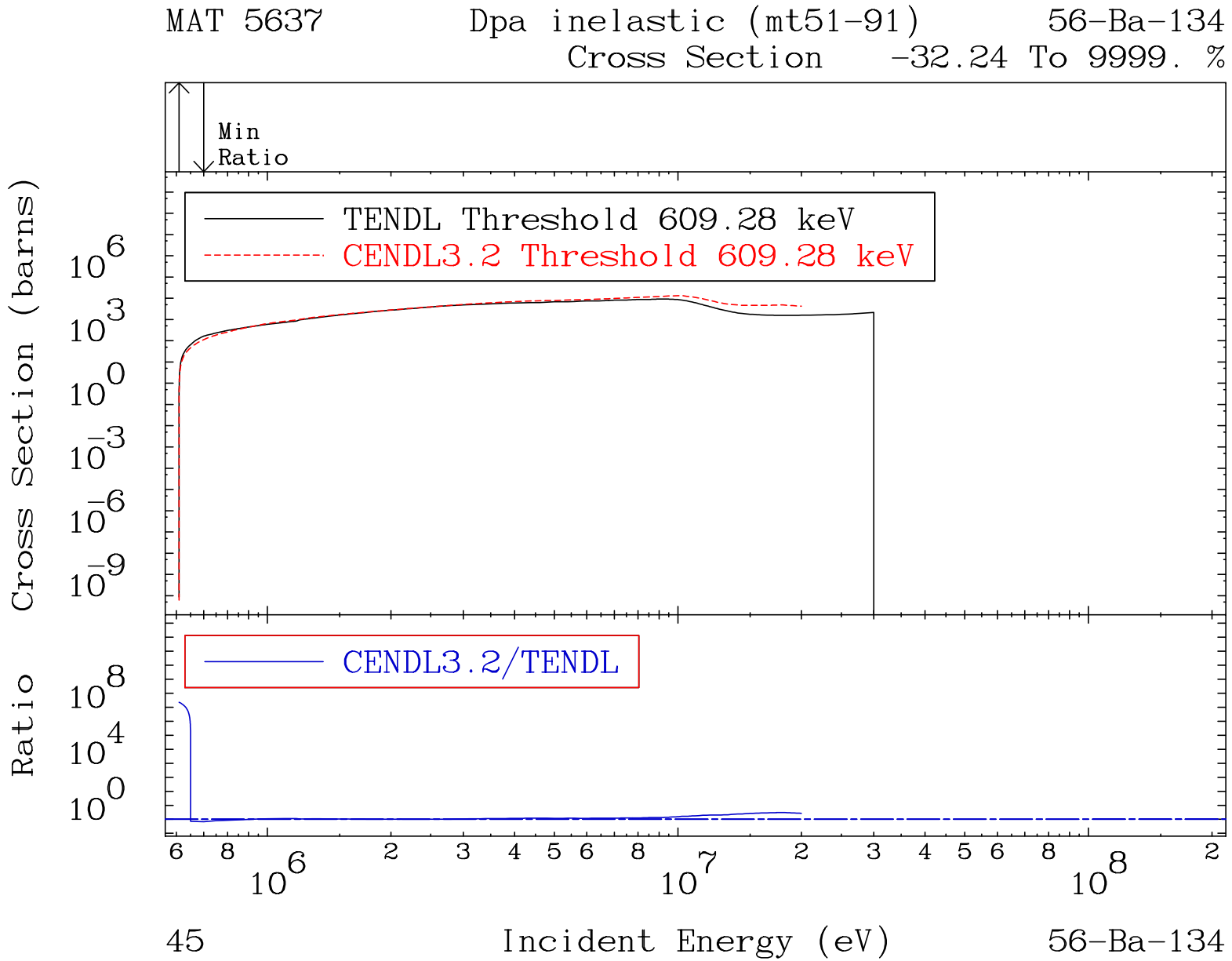

MAT 5637
Kerma capture (mt102)
56-Ba-134
Cross Section 620.8 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
56-Ba-134

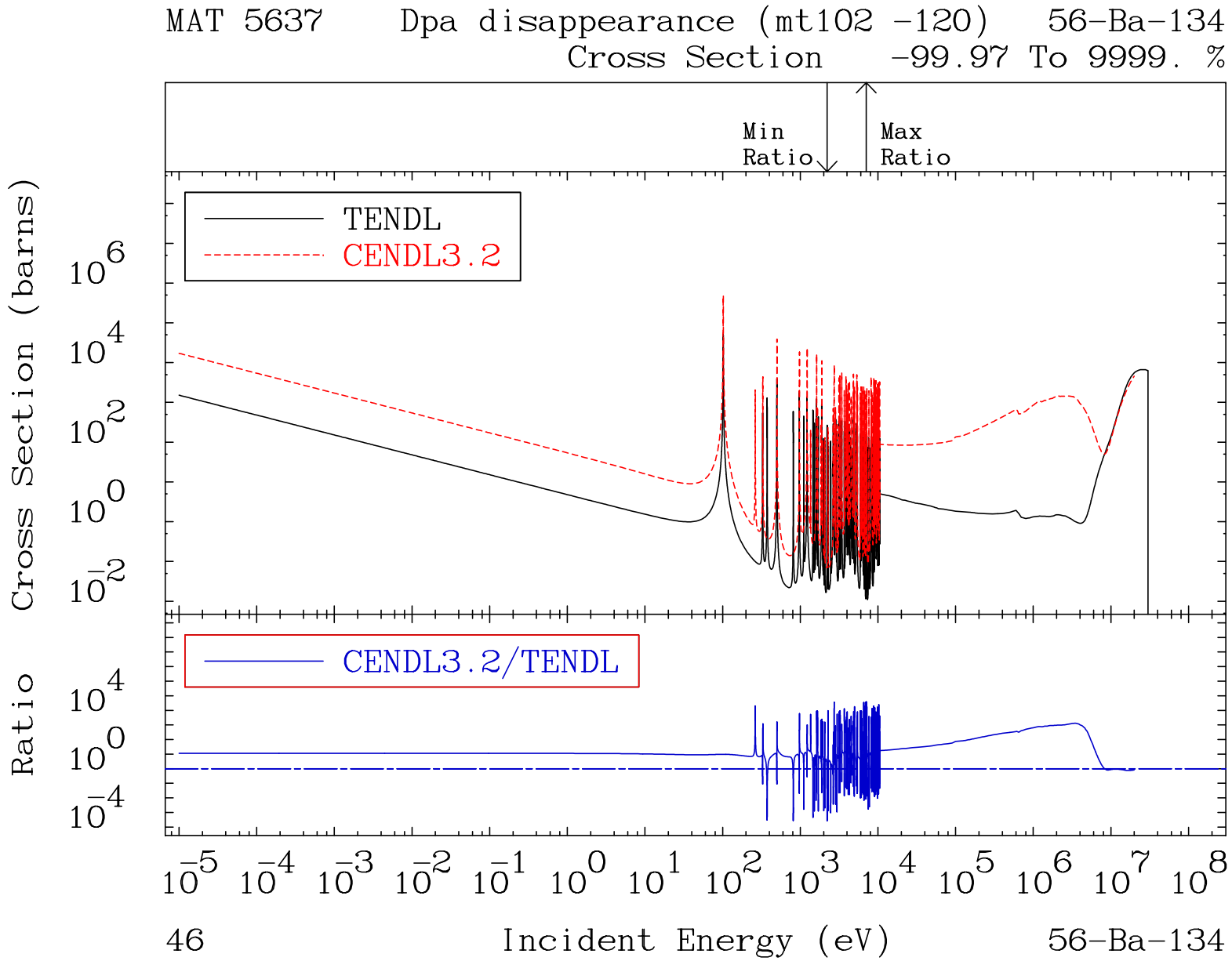

MAT 5637
Total photon (eV-barns)
56-Ba-134
Cross Section 620.8 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Giga-barns)
Incident Energy (eV)
41
56-Ba-134

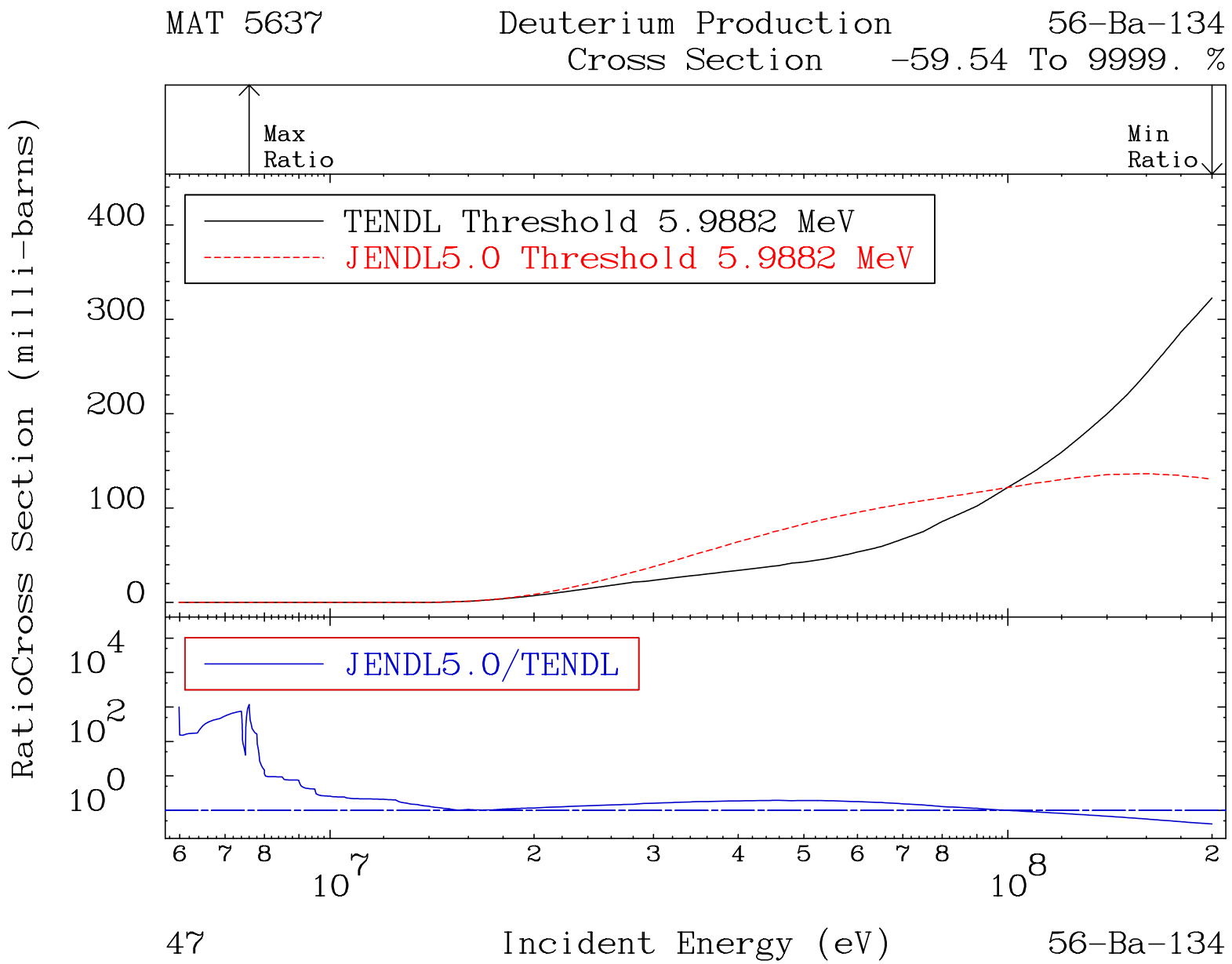

MAT 5637 Total kinematic kerma (high limit) 56-Ba-134
Cross Section -99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
42
56-Ba-134

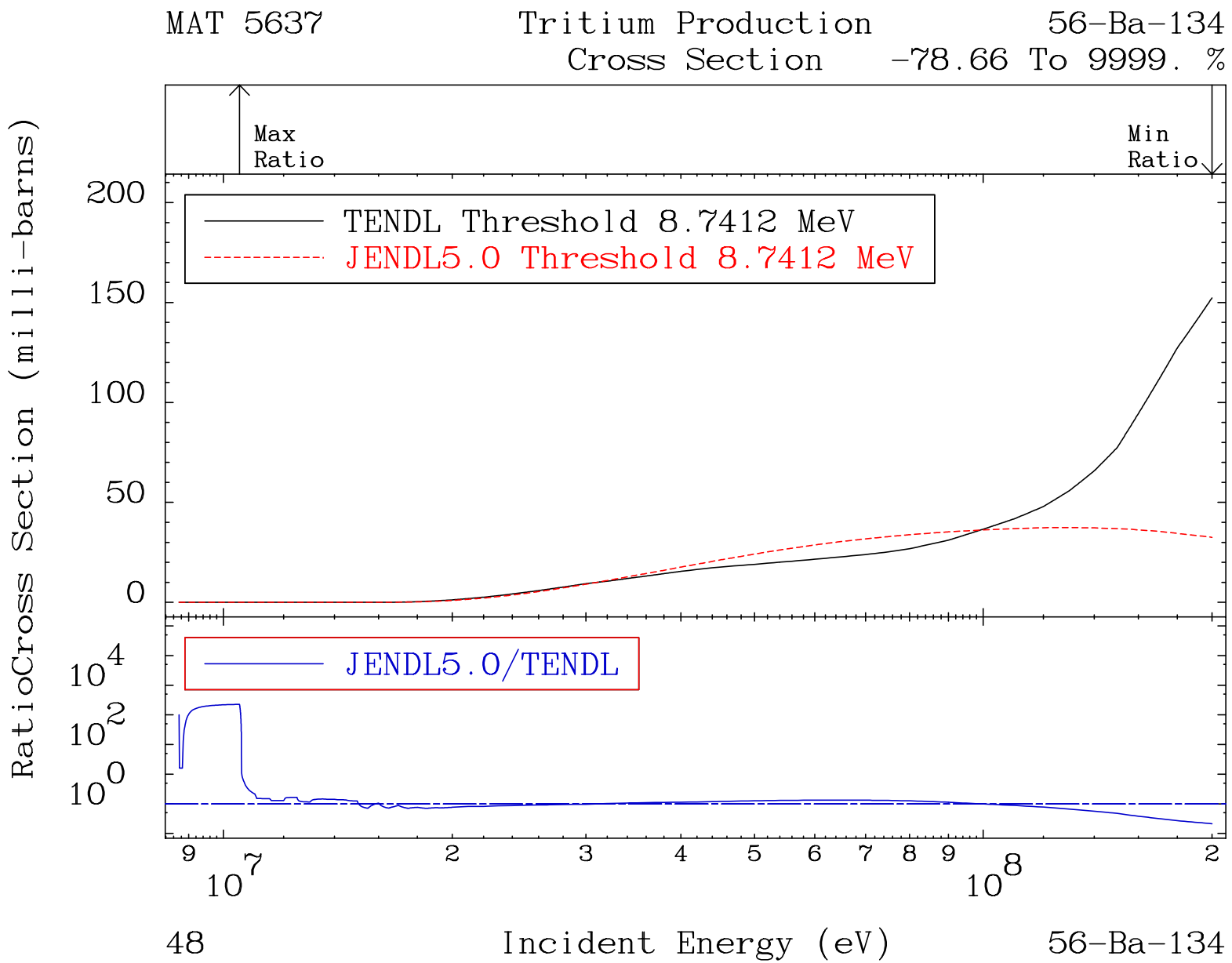

MAT 5637
Dpa total (eV-barns)
56-Ba-134
Cross Section -99.97 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
43
56-Ba-134

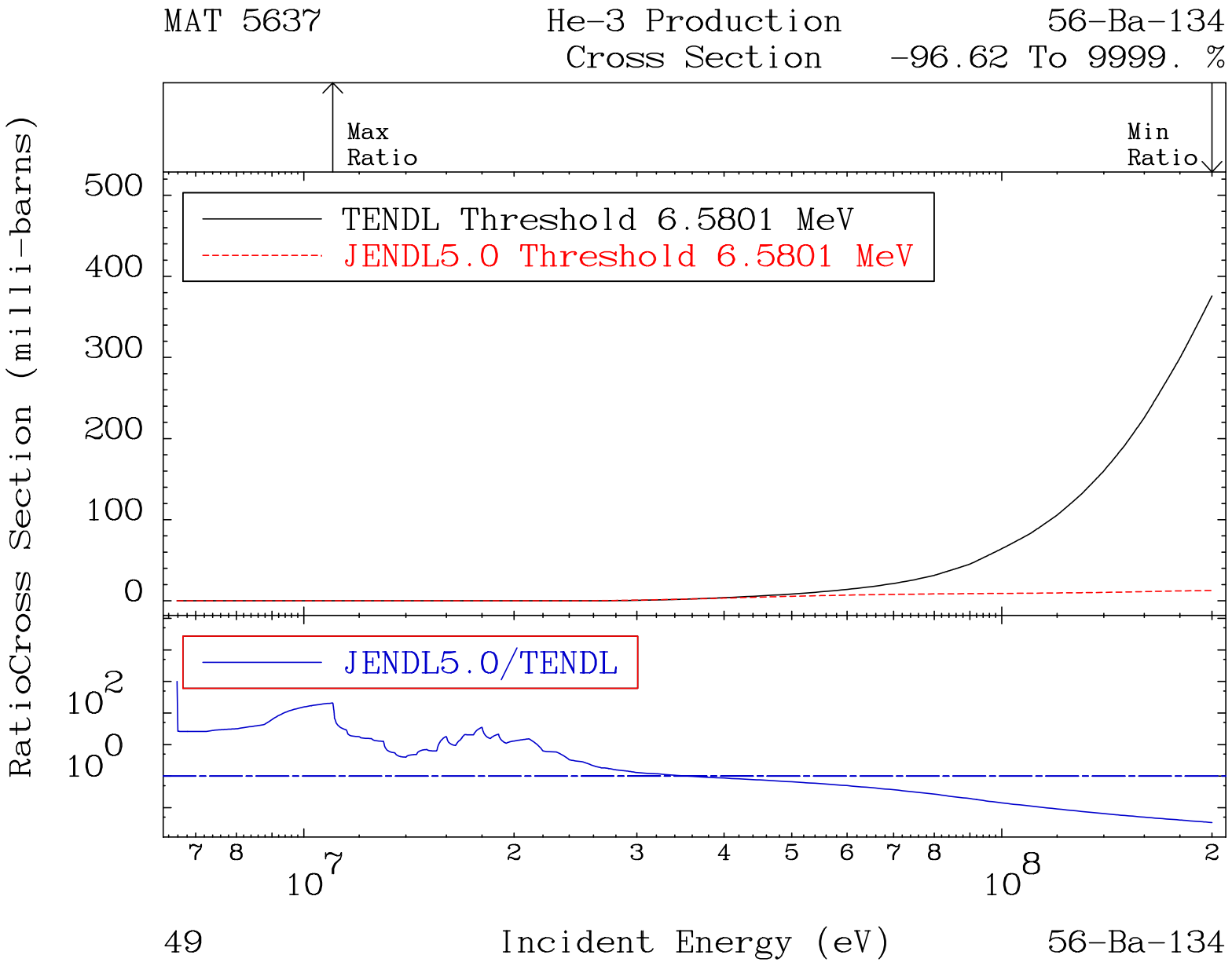

MAT 5637
Dpa elastic (mt2)
Cross Section
56-Ba-134
-99.99 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 814.06 eV
CENDL3.2 Threshold 819.43 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
56-Ba-134

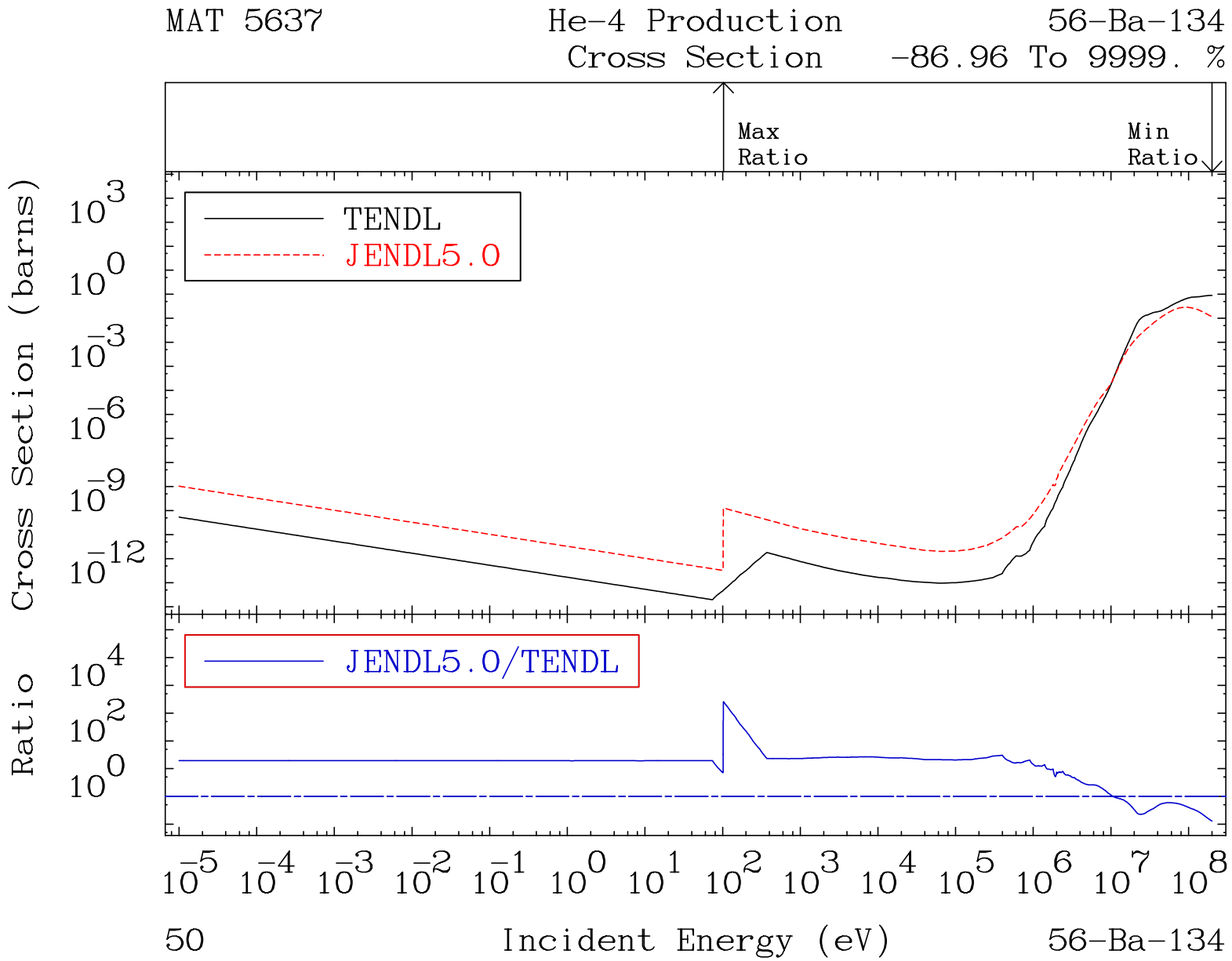

MAT 5637
Dpa inelastic (mt51-91)
56-Ba-134
Cross Section -32.24 To 9999. %
Min
Ratio
TENDL Threshold 609.28 keV
CENDL3.2 Threshold 609.28 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
56-Ba-134

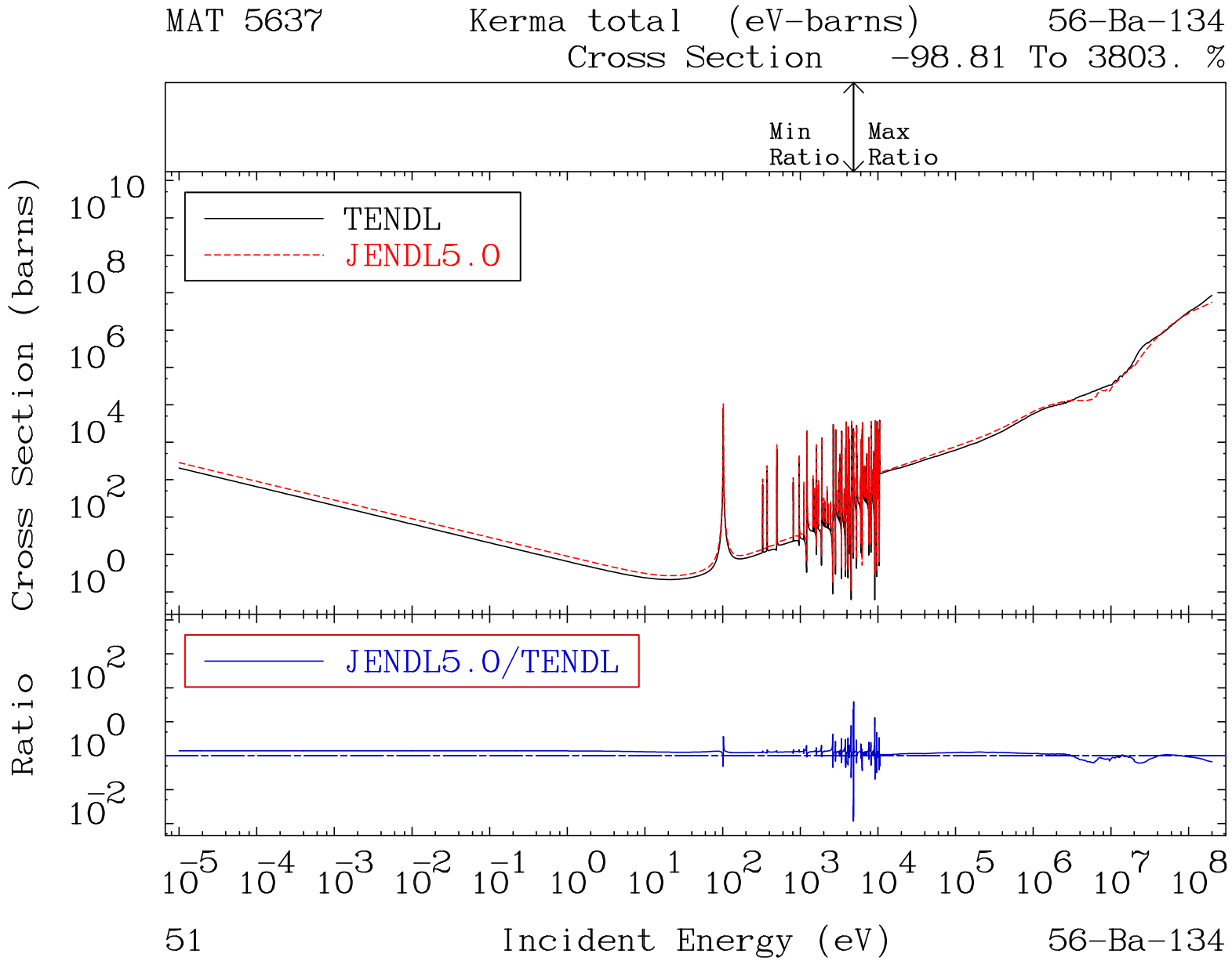

MAT 5637 Dpa disappearance (mt102 -120) 56-Ba-134
Cross Section -99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
46
56-Ba-134

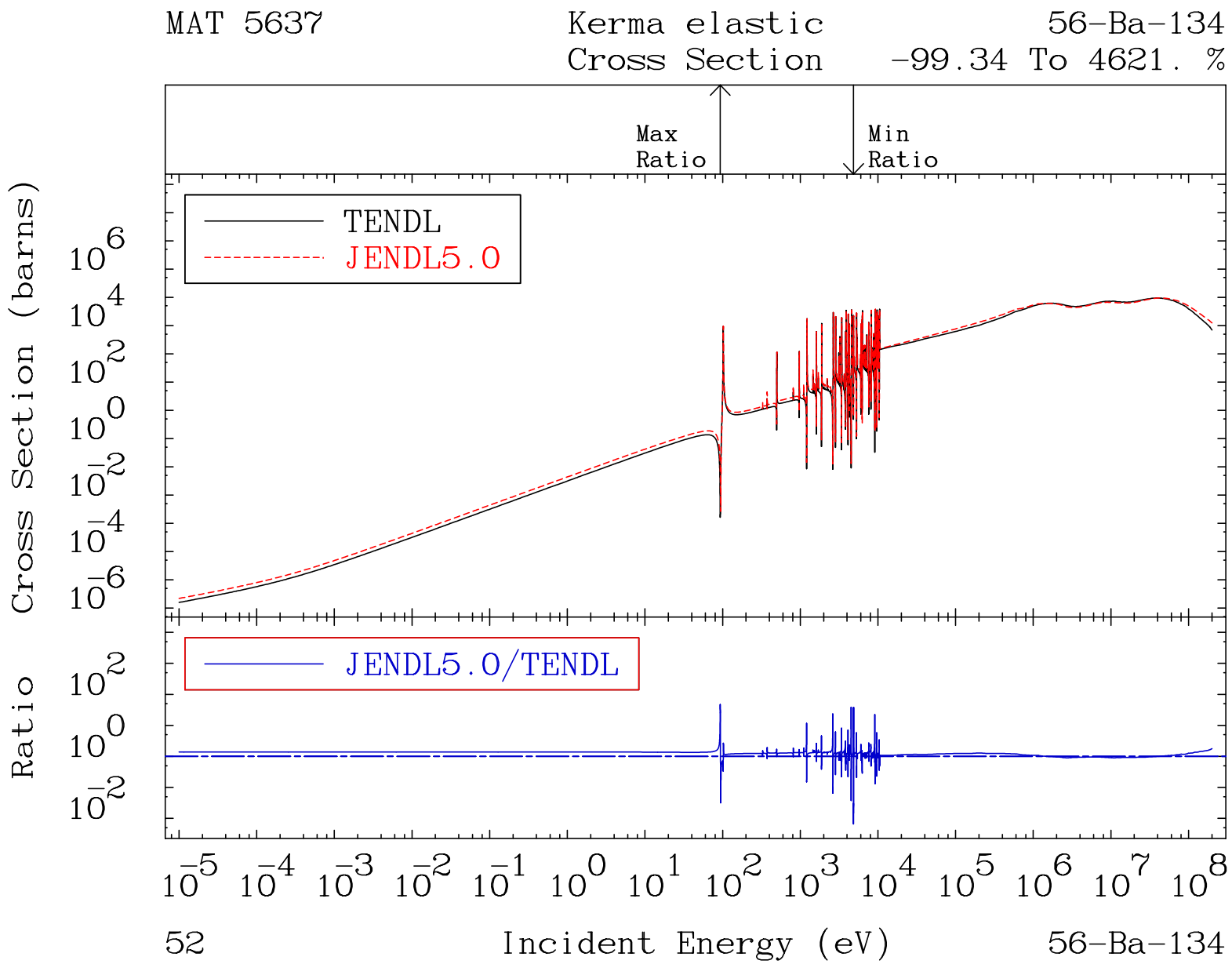

MAT 5637
Deuterium Production
56-Ba-134
Cross Section -59.54 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.9882 MeV
JENDL5.0 Threshold 5.9882 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^4
10^2
10^0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
56-Ba-134

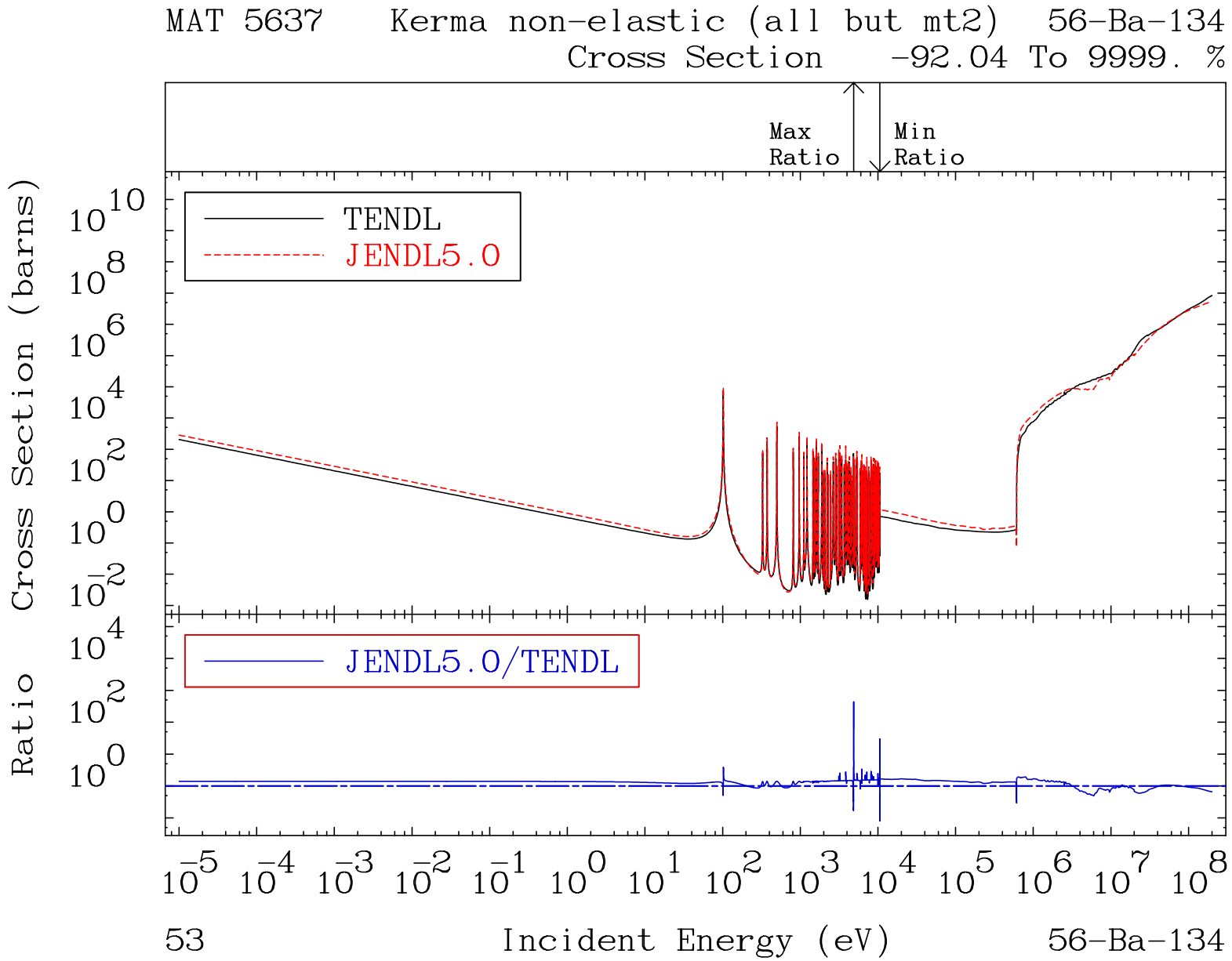

MAT 5637
Tritium Production
56-Ba-134
Cross Section
-78.66 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.7412 MeV
JENDL5.0 Threshold 8.7412 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^4
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
56-Ba-134

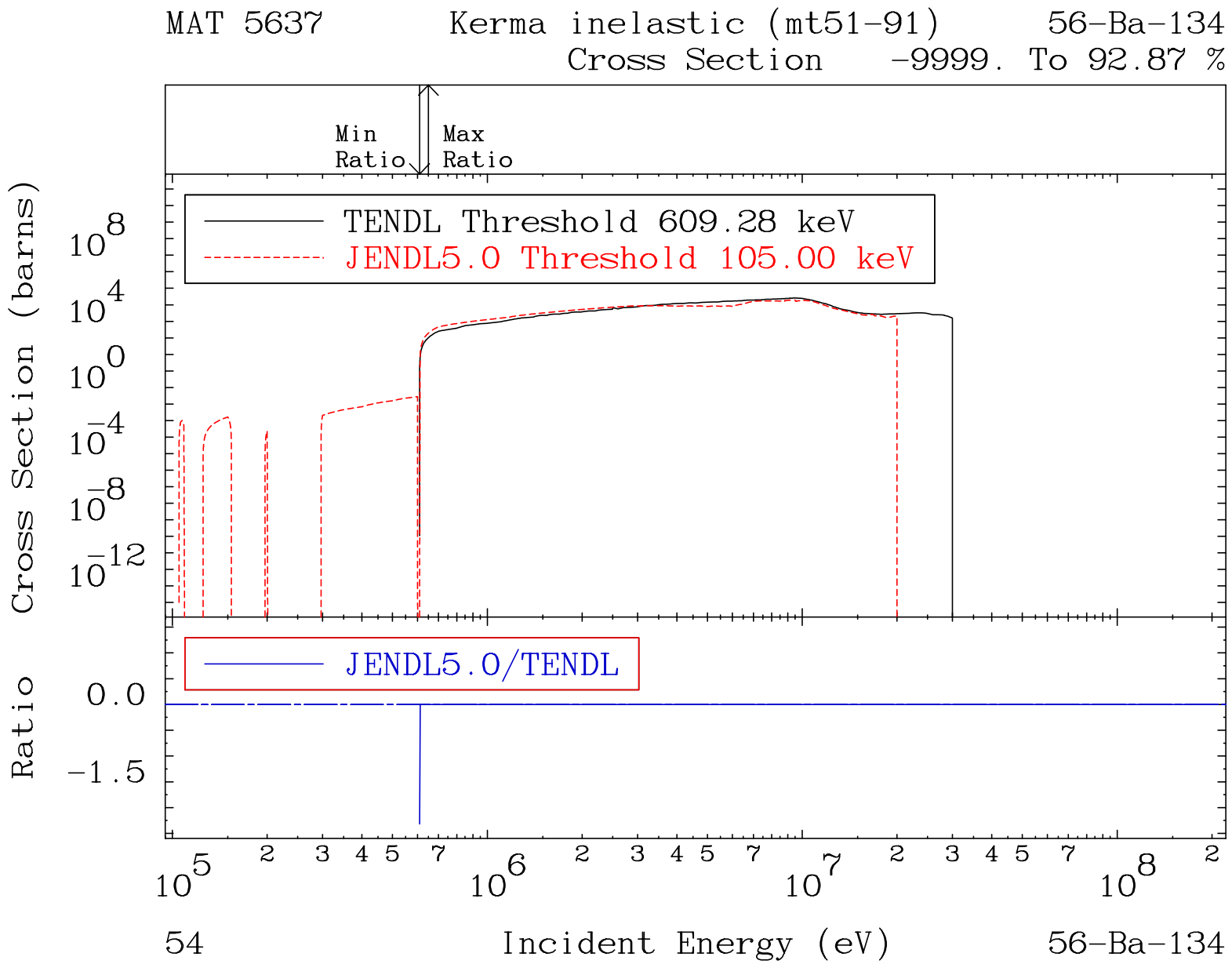

MAT 5637
He-3 Production
Cross Section
56-Ba-134
-96.62 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 6.5801 MeV
JENDL5.0 Threshold 6.5801 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
10^2
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
56-Ba-134

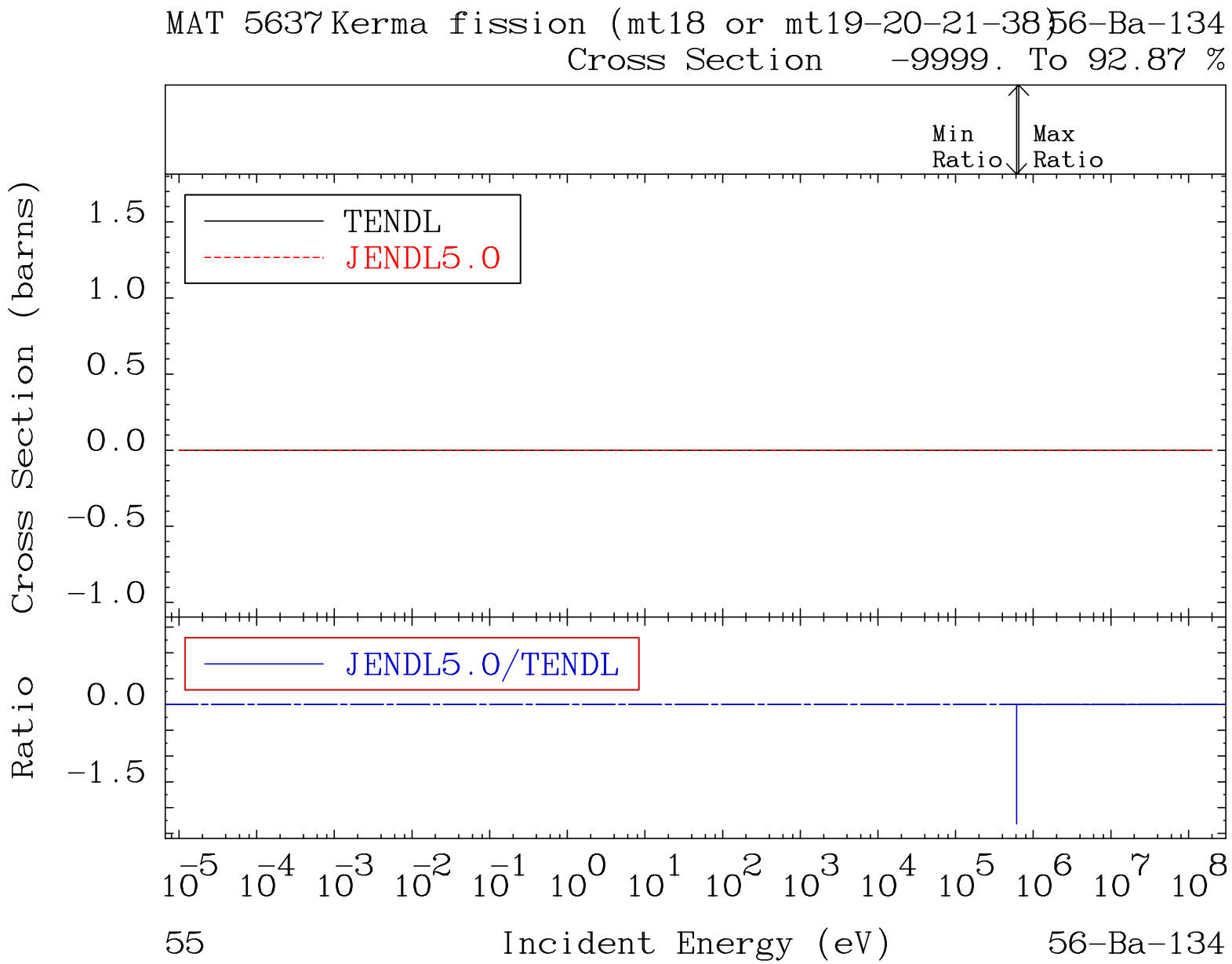

MAT 5637
He-4 Production
Cross Section
56-Ba-134
-86.96 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
56-Ba-134

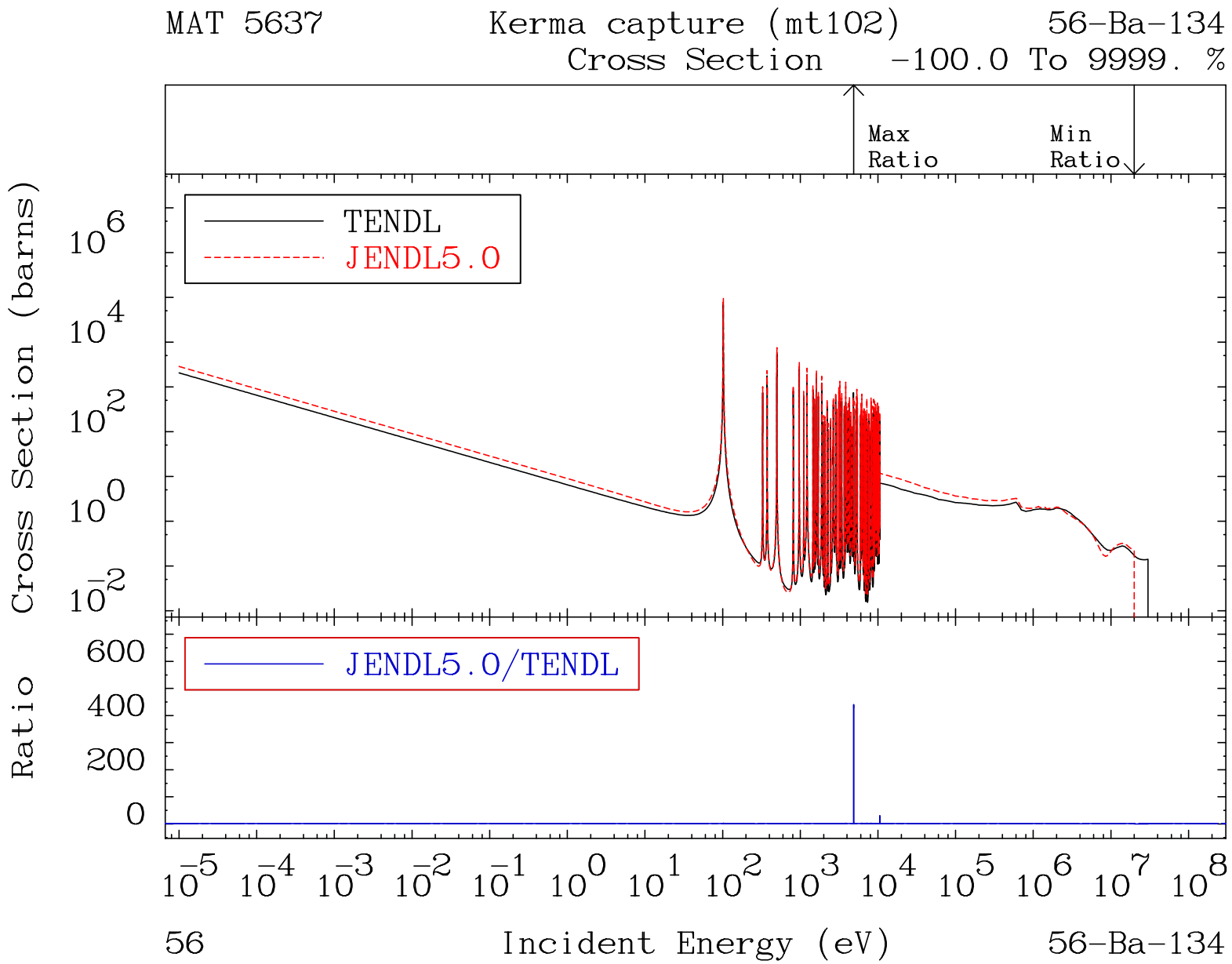

MAT 5637
Kerma total (eV-barns)
56-Ba-134
Cross Section -98.81 To 3803. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
56-Ba-134

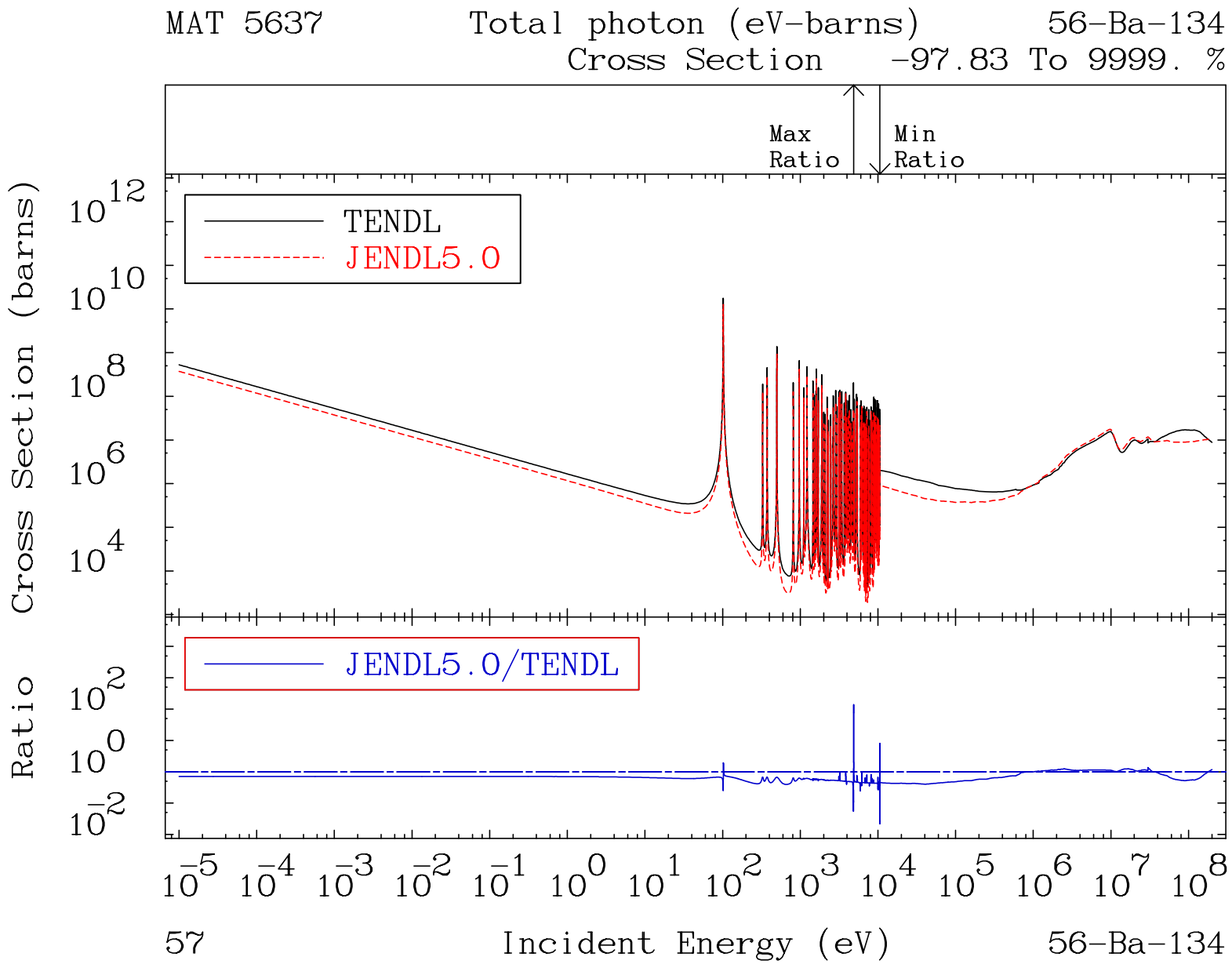

MAT 5637
Kerma elastic
Cross Section
56-Ba-134
-99.34 To 4621. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
56-Ba-134

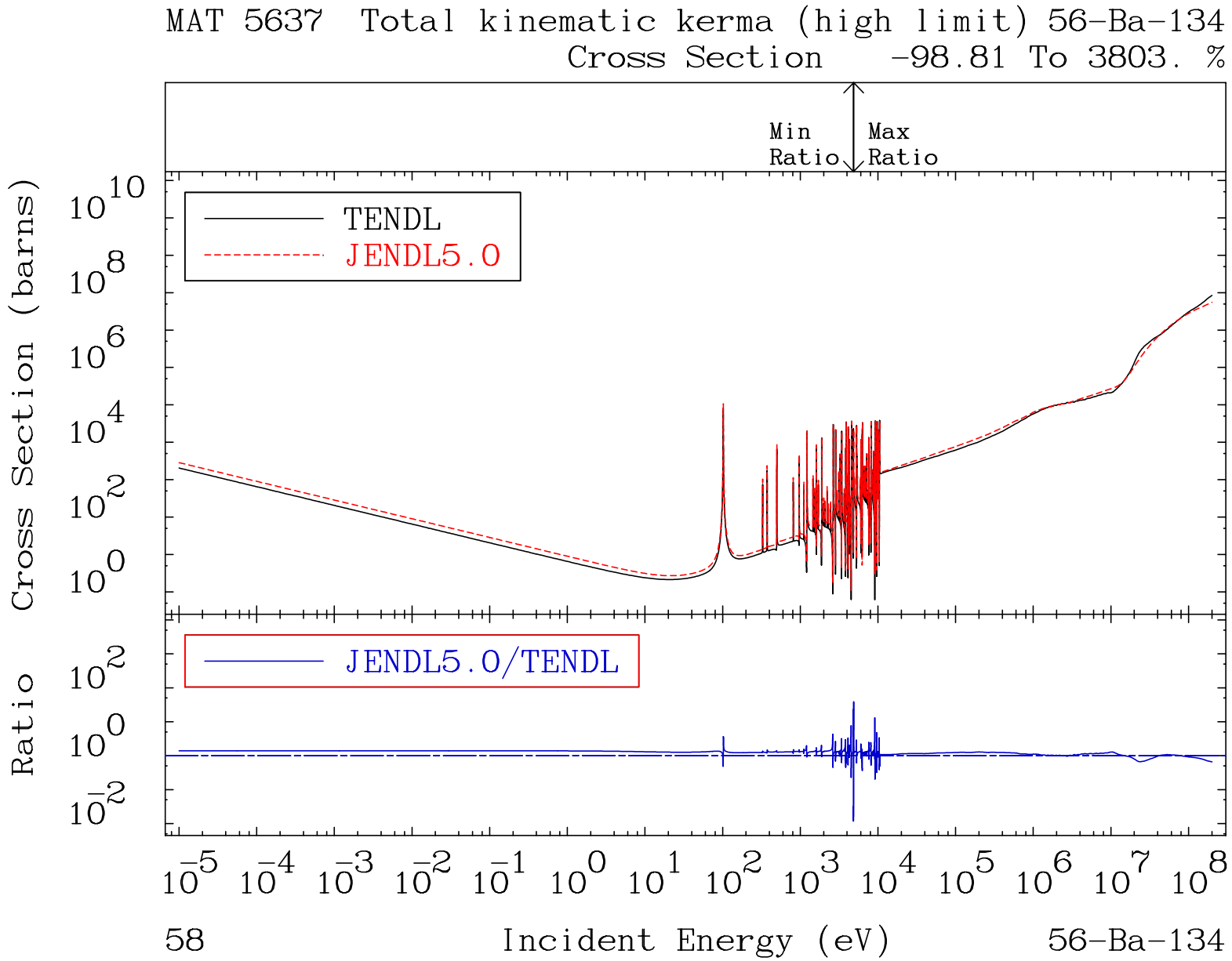

MAT 5637 Kerma non-elastic (all but mt2) 56-Ba-134
Cross Section -92.04 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
56-Ba-134

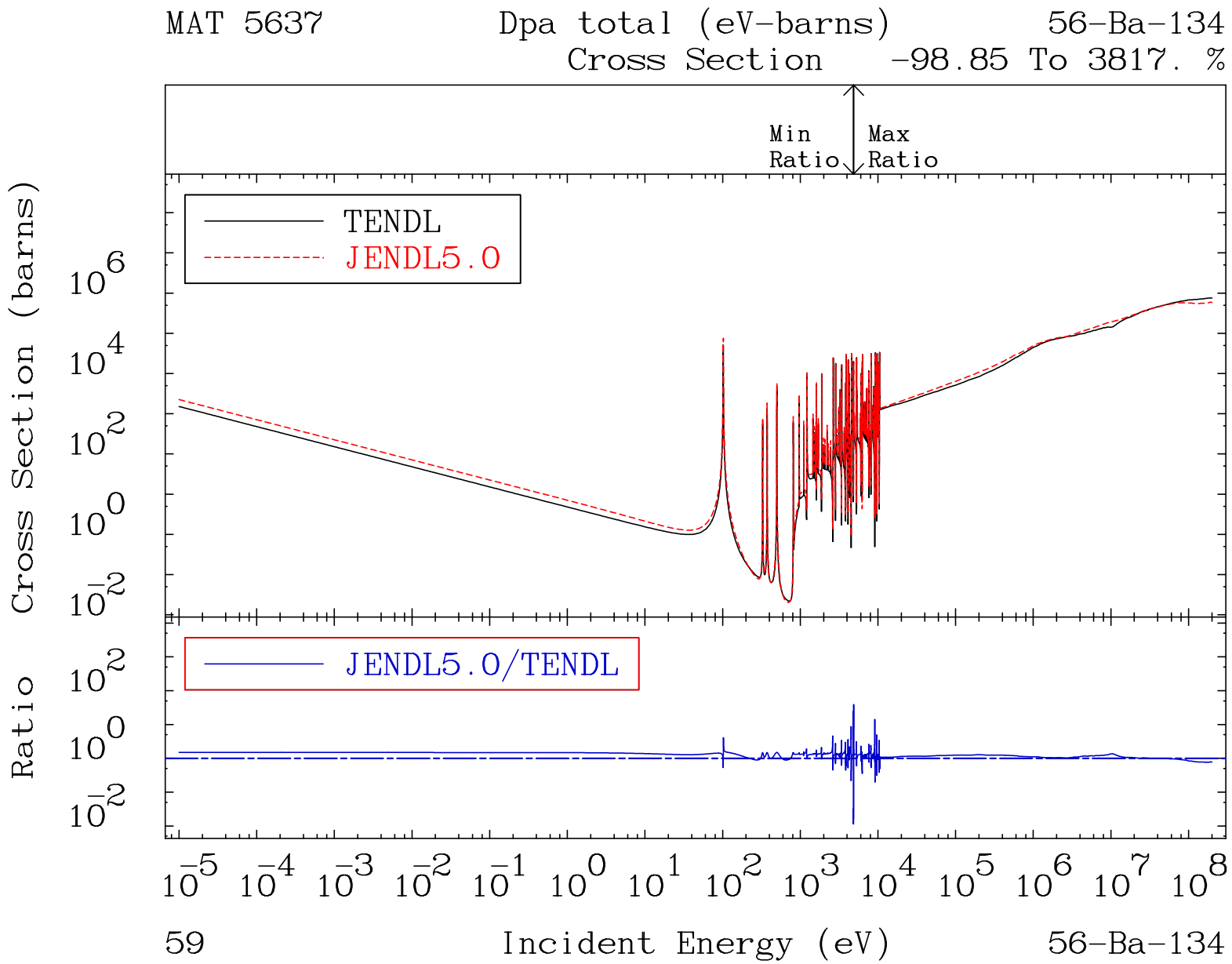

MAT 5637
Kerma inelastic (mt51-91)
56-Ba-134
Cross Section -9999. To 92.87 %
Min Ratio
Max Ratio
TENDL Threshold 609.28 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
56-Ba-134

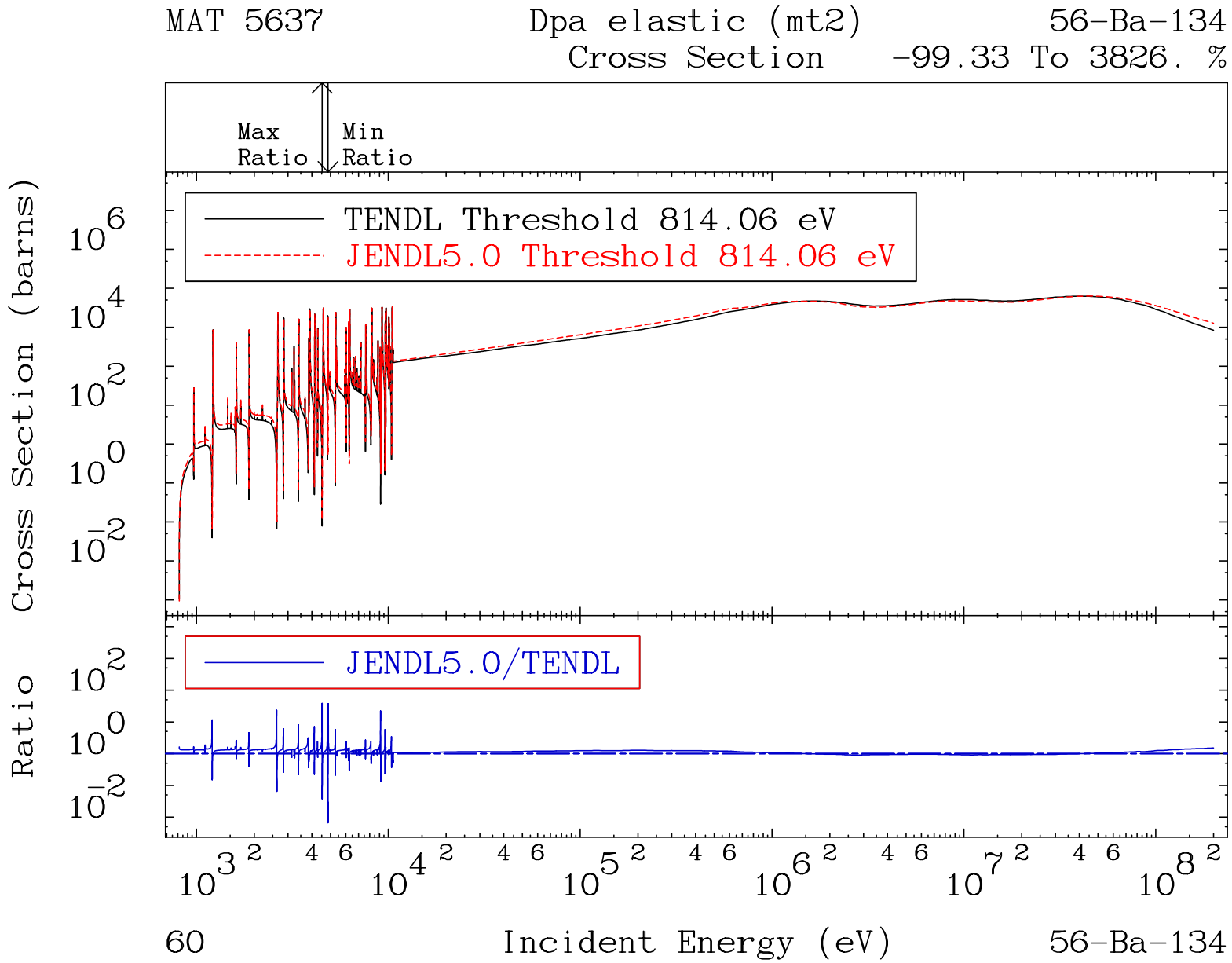

MAT 5637 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-134
Cross Section -9999. To 92.87 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0.0
-1.5
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
55
Incident Energy (eV)
56-Ba-134

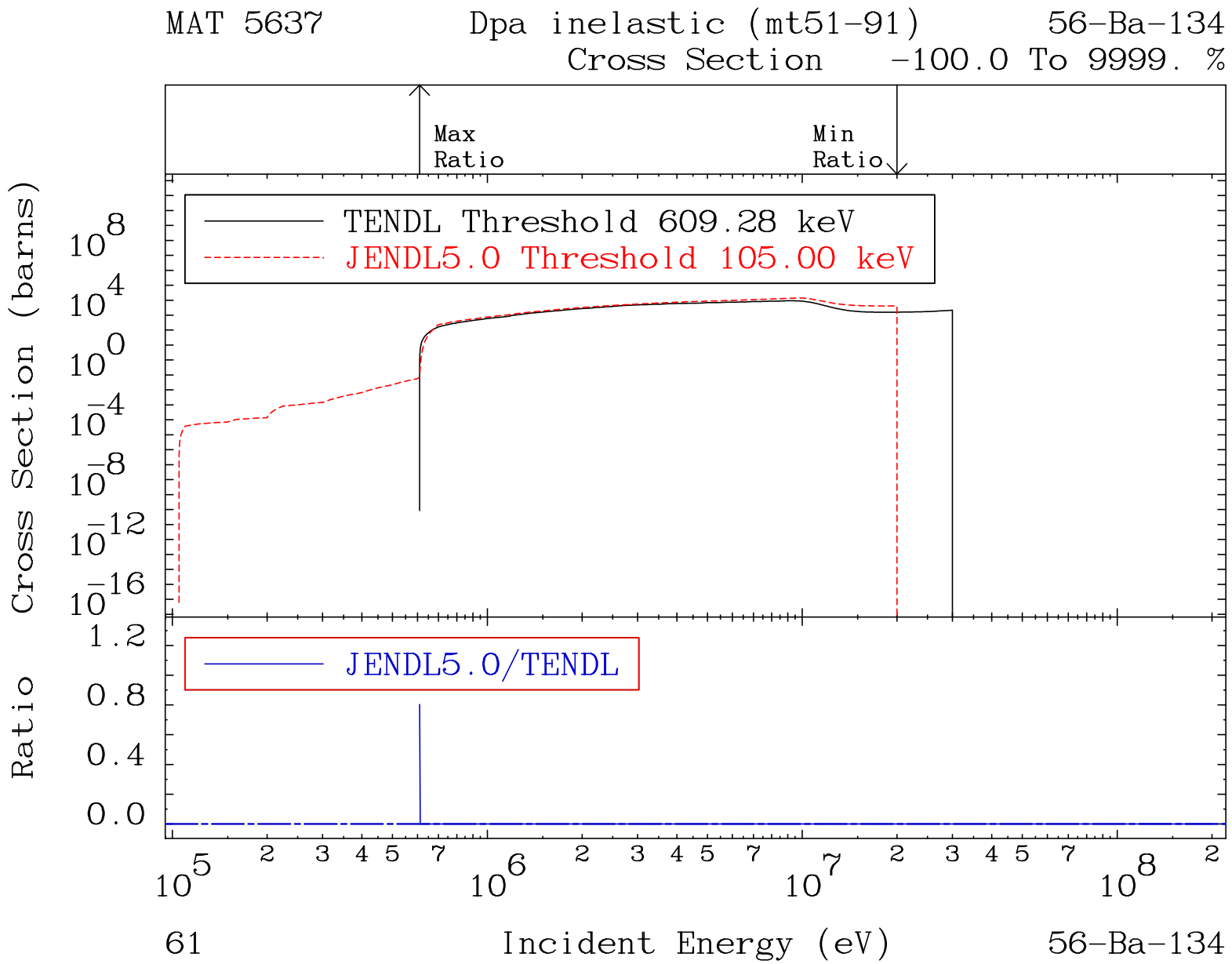

MAT 5637
Kerma capture (mt102)
56-Ba-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
56-Ba-134

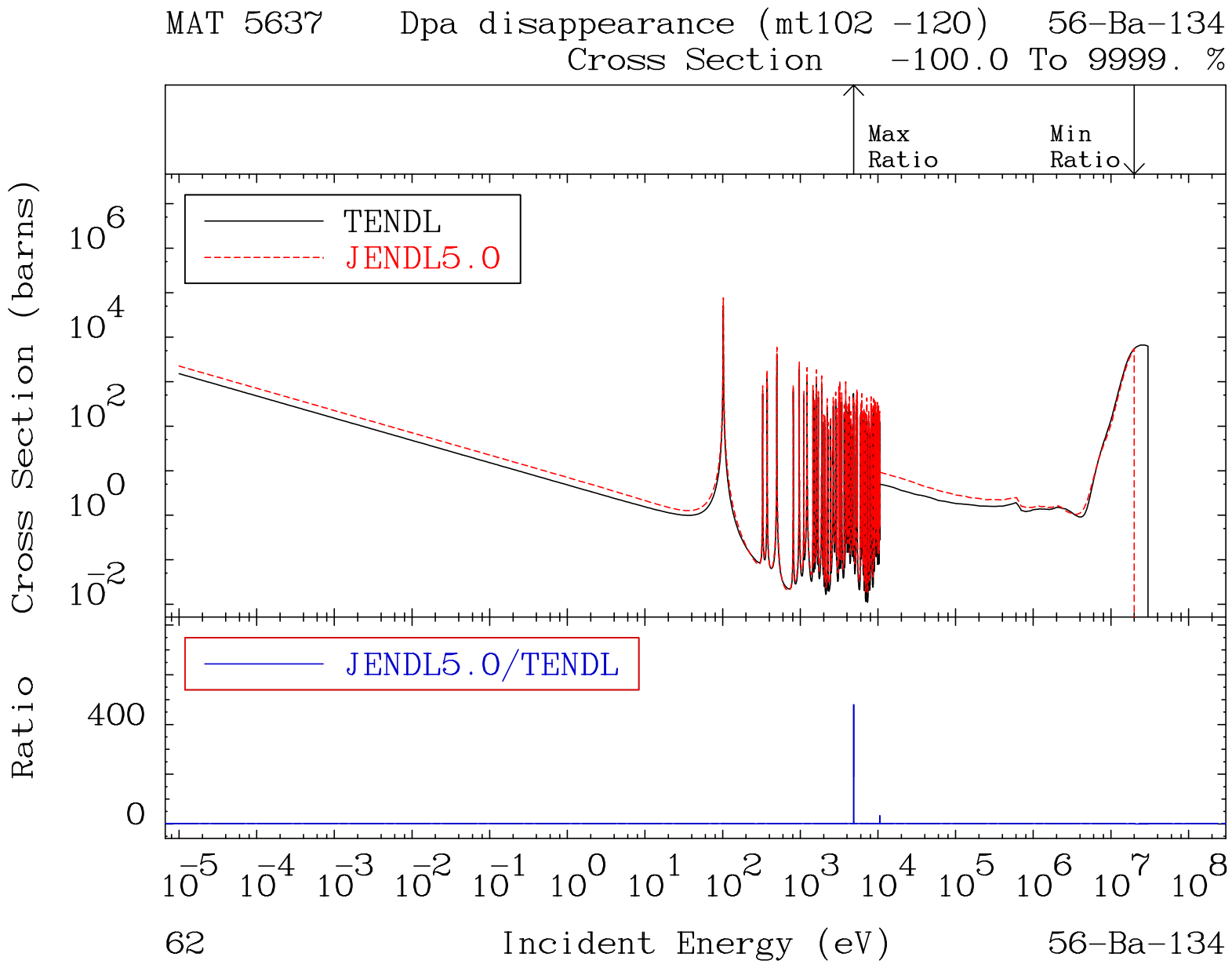

MAT 5637
Total photon (eV-barns)
56-Ba-134
Cross Section -97.83 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
56-Ba-134

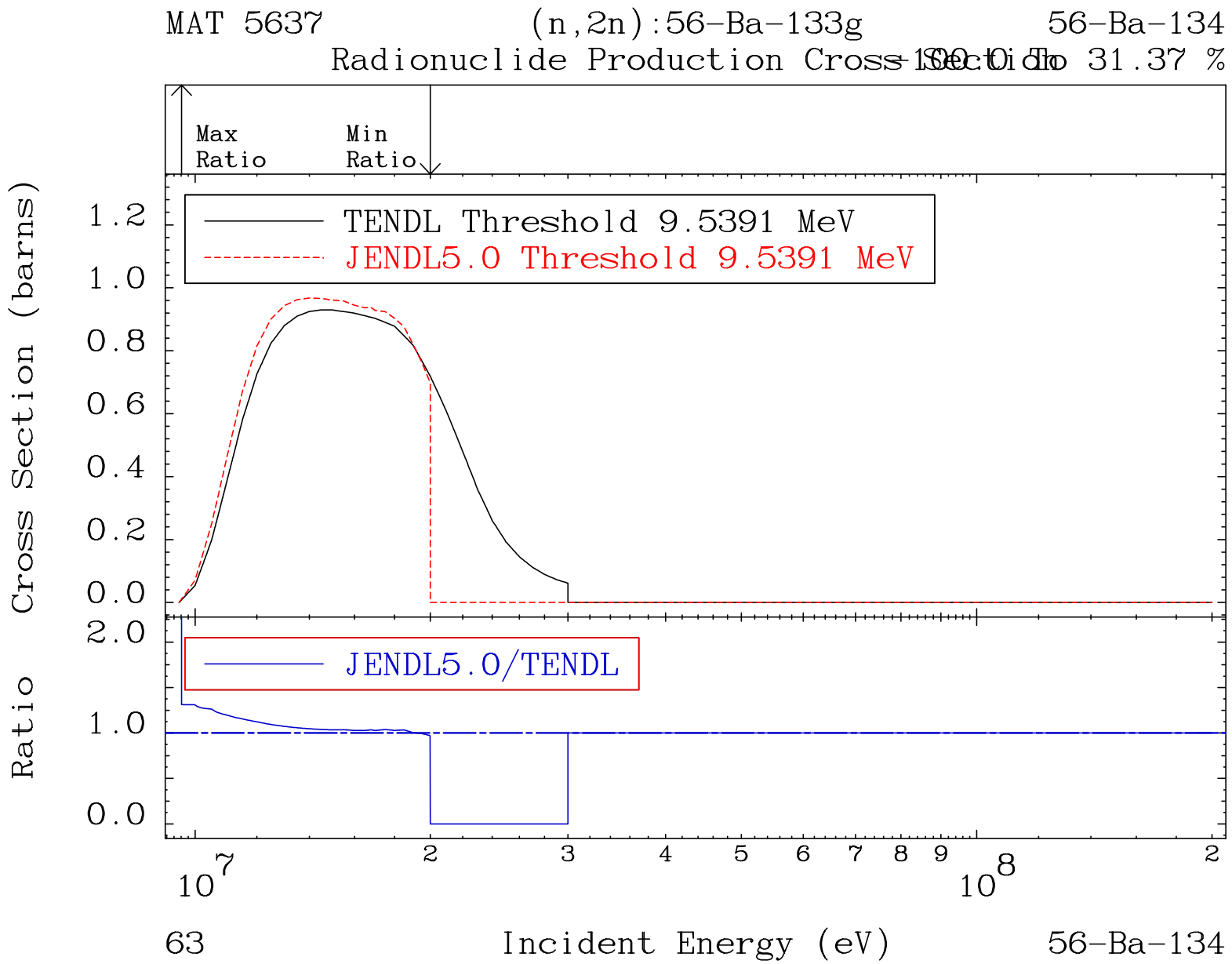

MAT 5637 Total kinematic kerma (high limit) 56-Ba-134
Cross Section -98.81 To 3803. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
56-Ba-134

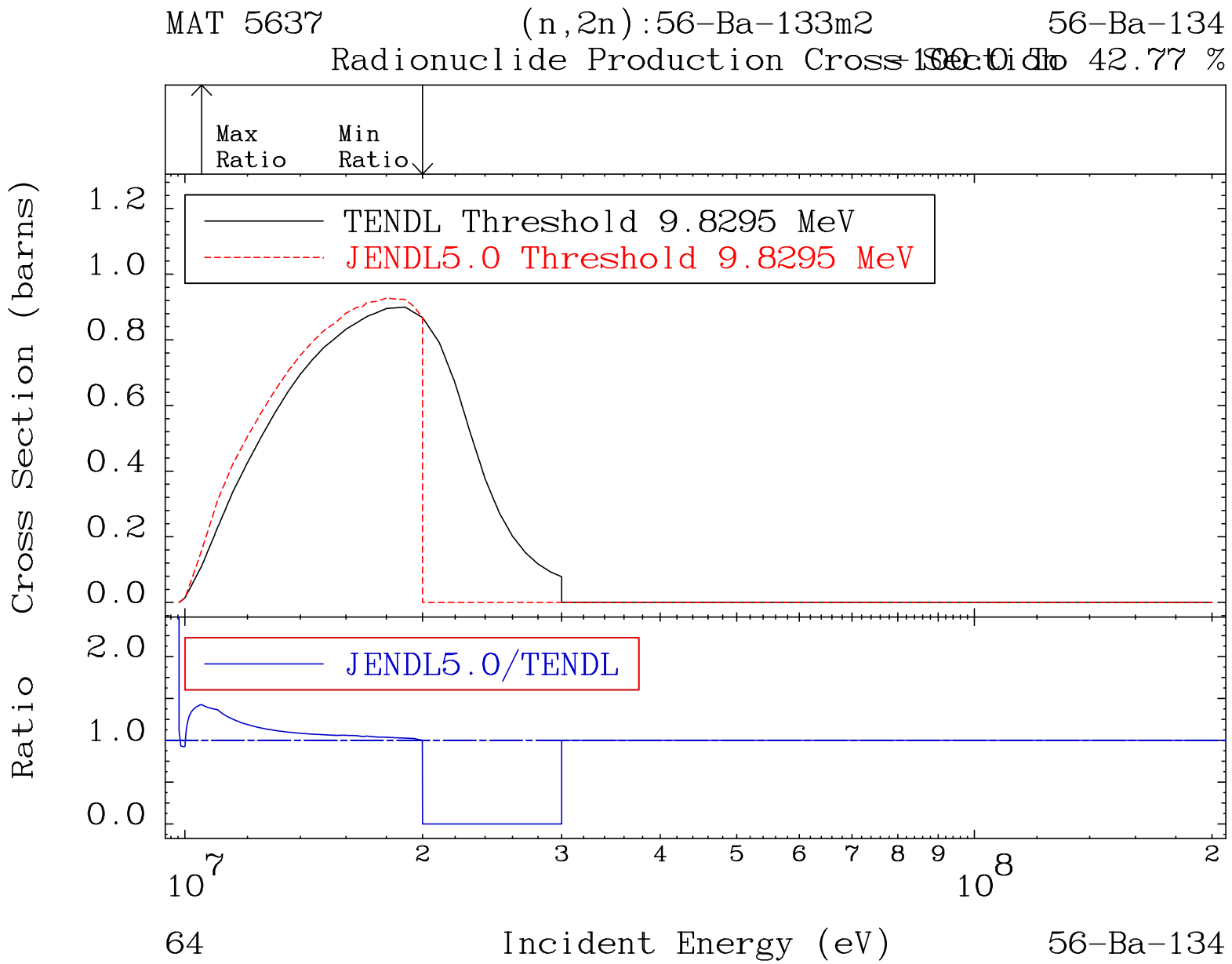

MAT 5637
Dpa total (eV-barns)
56-Ba-134
Cross Section -98.85 To 3817. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
56-Ba-134

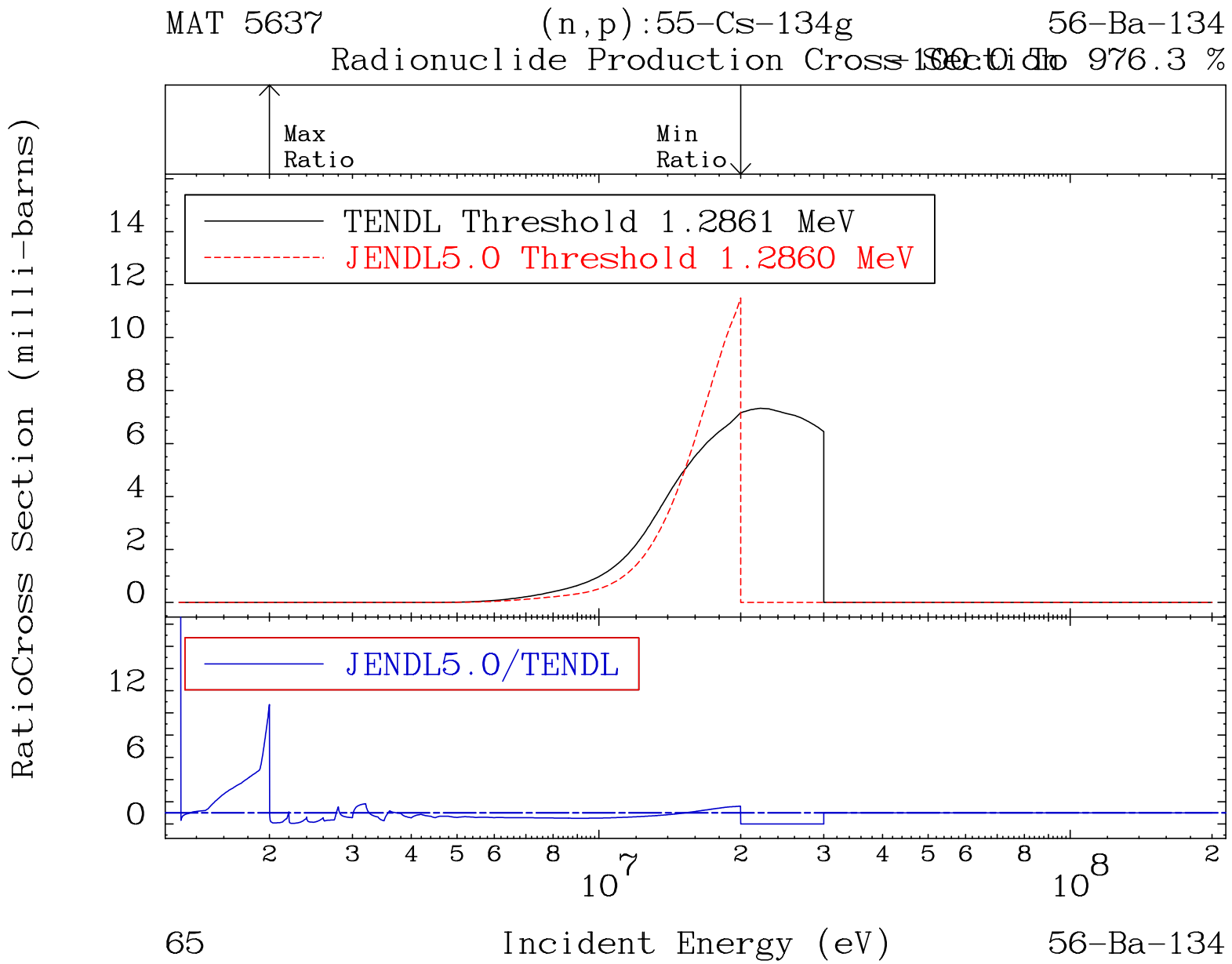

MAT 5637
Dpa elastic (mt2)
Cross Section
56-Ba-134
-99.33 To 3826. %
Max Ratio
Min Ratio
TENDL Threshold 814.06 eV
JENDL5.0 Threshold 814.06 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
56-Ba-134

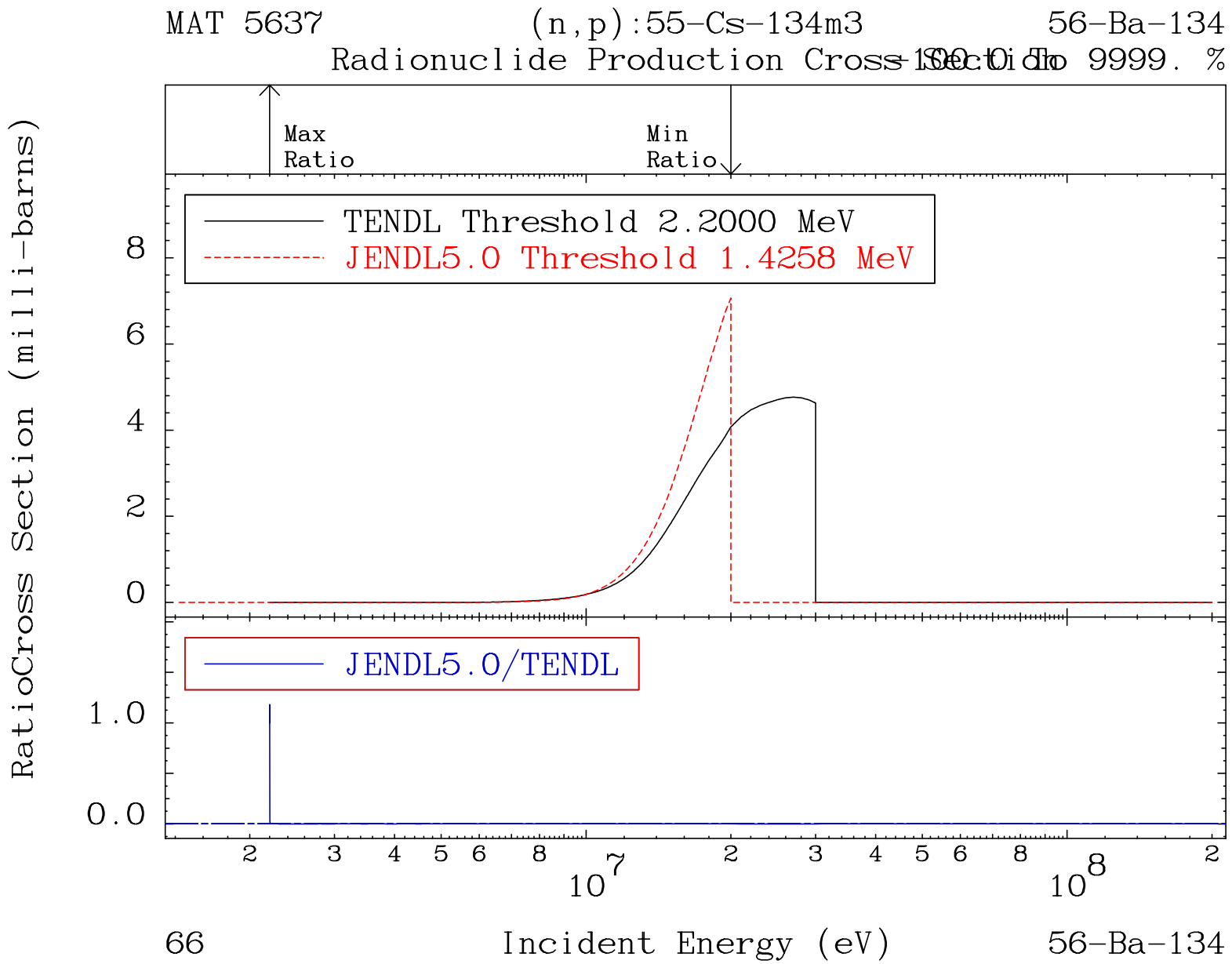

MAT 5637
Dpa inelastic (mt51-91)
56-Ba-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 609.28 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
56-Ba-134

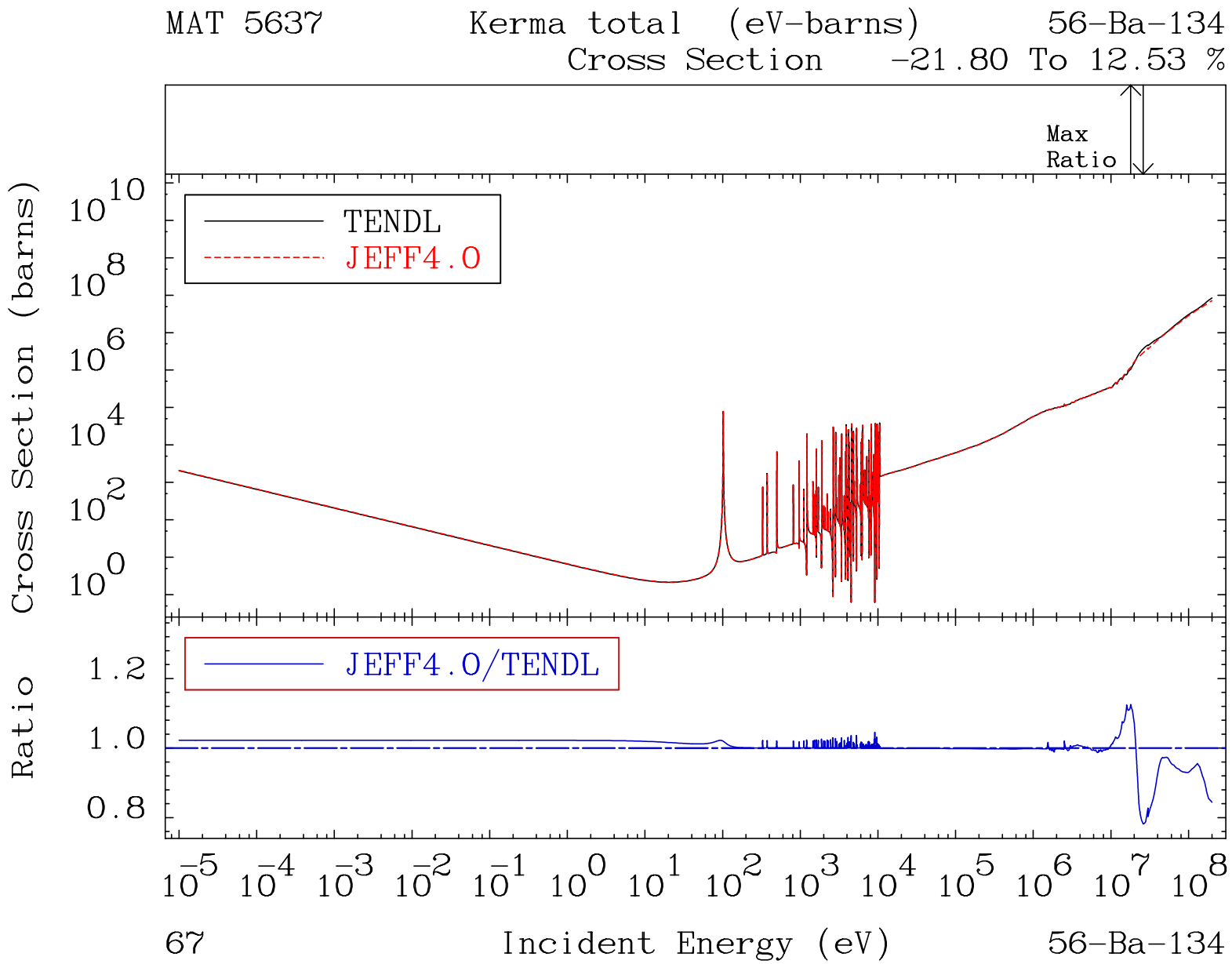

MAT 5637 Dpa disappearance (mt102 -120) 56-Ba-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
56-Ba-134

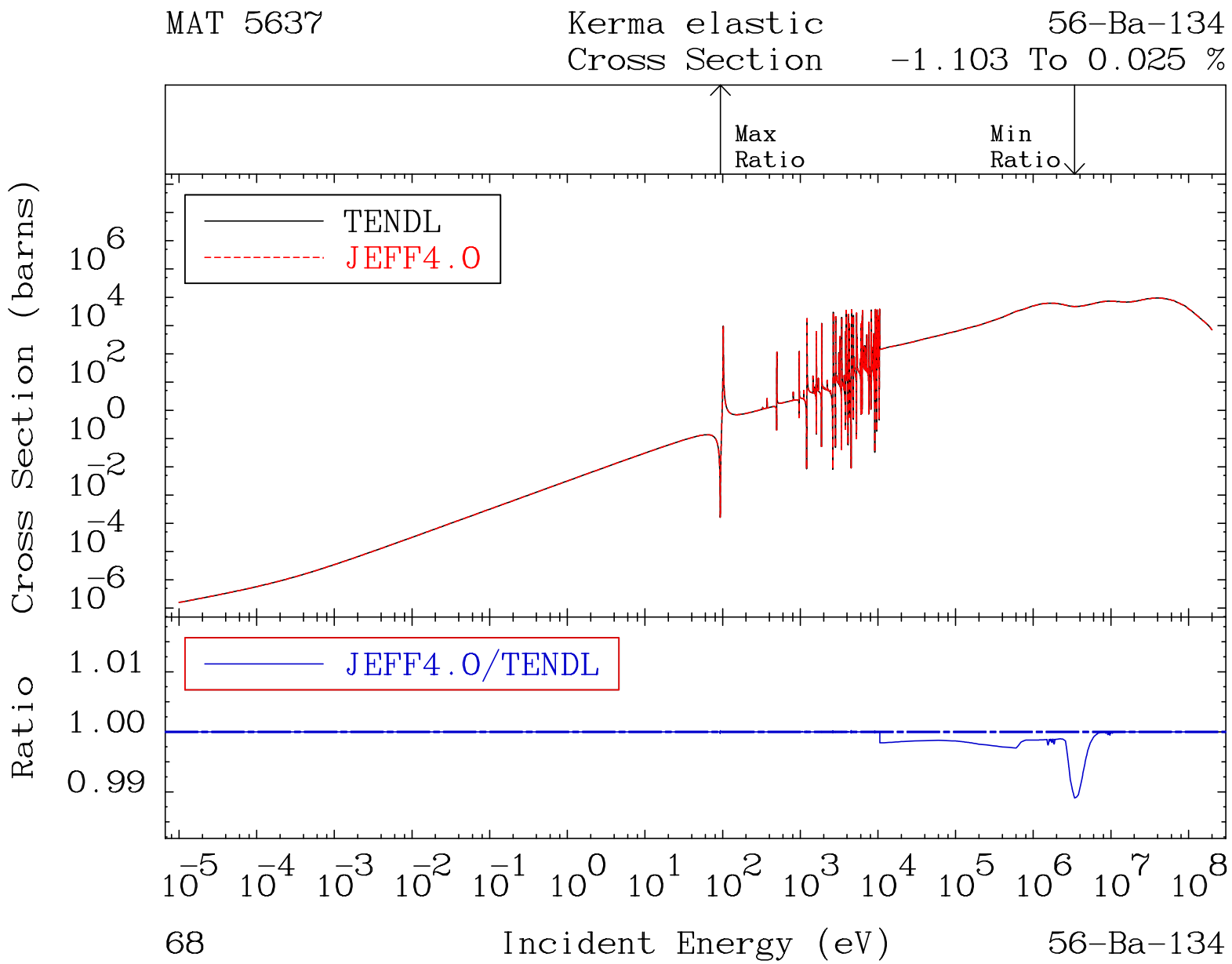

MAT 5637
(n,2n):56-Ba-133g
56-Ba-134
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.5391 MeV
JENDL5.0 Threshold 9.5391 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
56-Ba-134

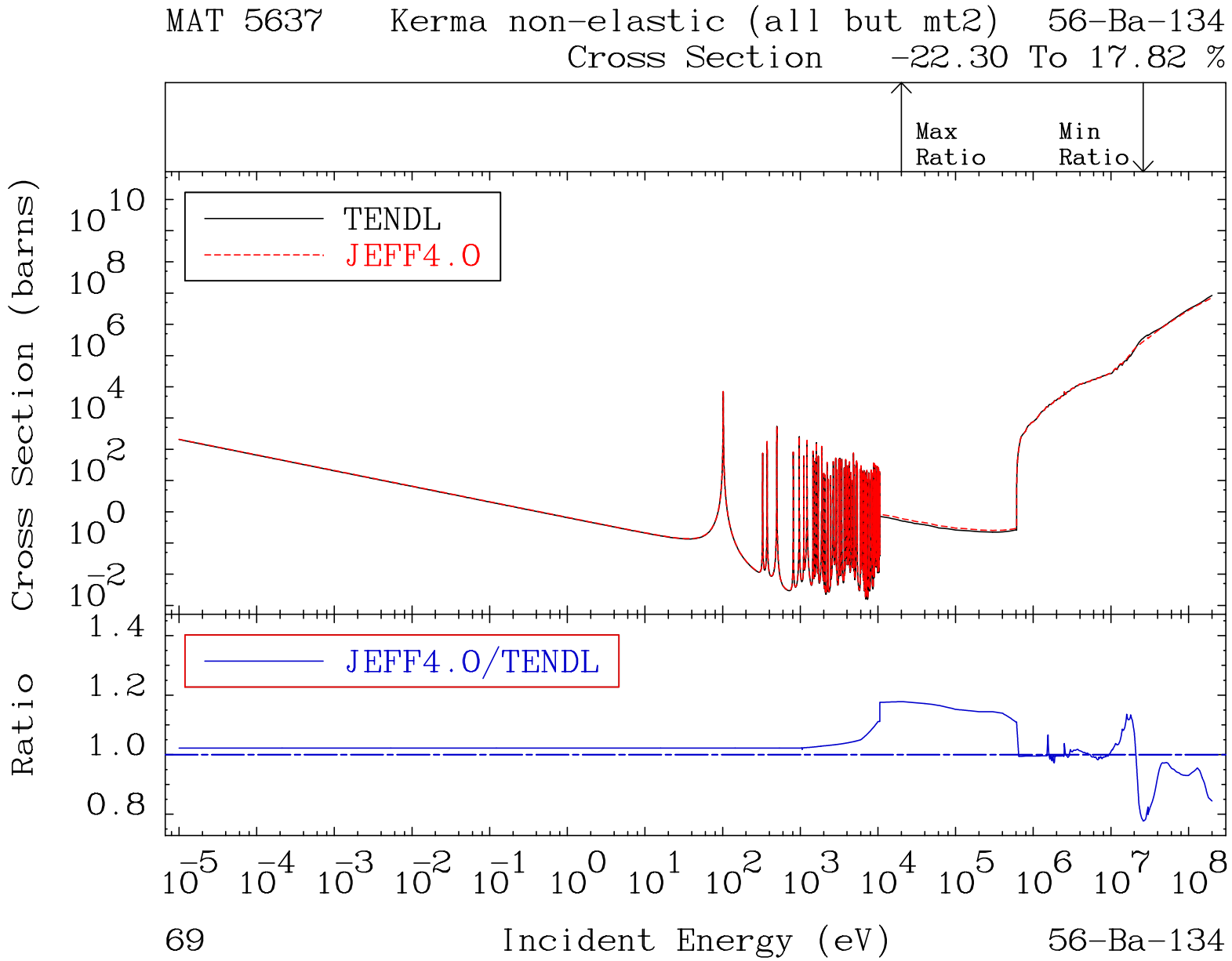

MAT 5637
(n,2n):56-Ba-133m2
56-Ba-134
Radionuclide Production Cross Section To 42.77 %
Max Ratio
Min Ratio
TENDL Threshold 9.8295 MeV
JENDL5.0 Threshold 9.8295 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
56-Ba-134

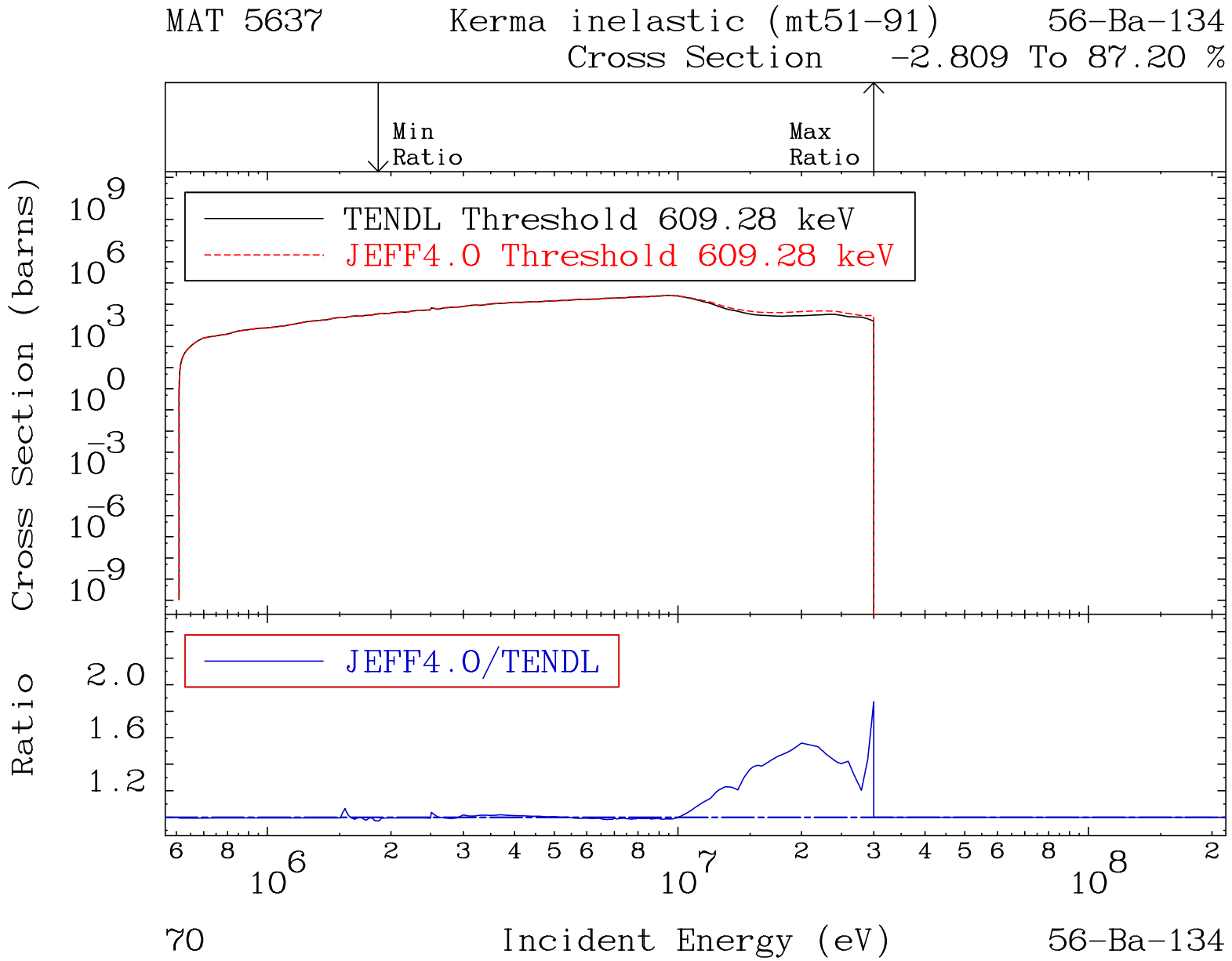

MAT 5637
(n,p):55-Cs-134g
56-Ba-134
Radionuclide Production Cross Section To 976.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.2861 MeV
JENDL5.0 Threshold 1.2860 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
56-Ba-134

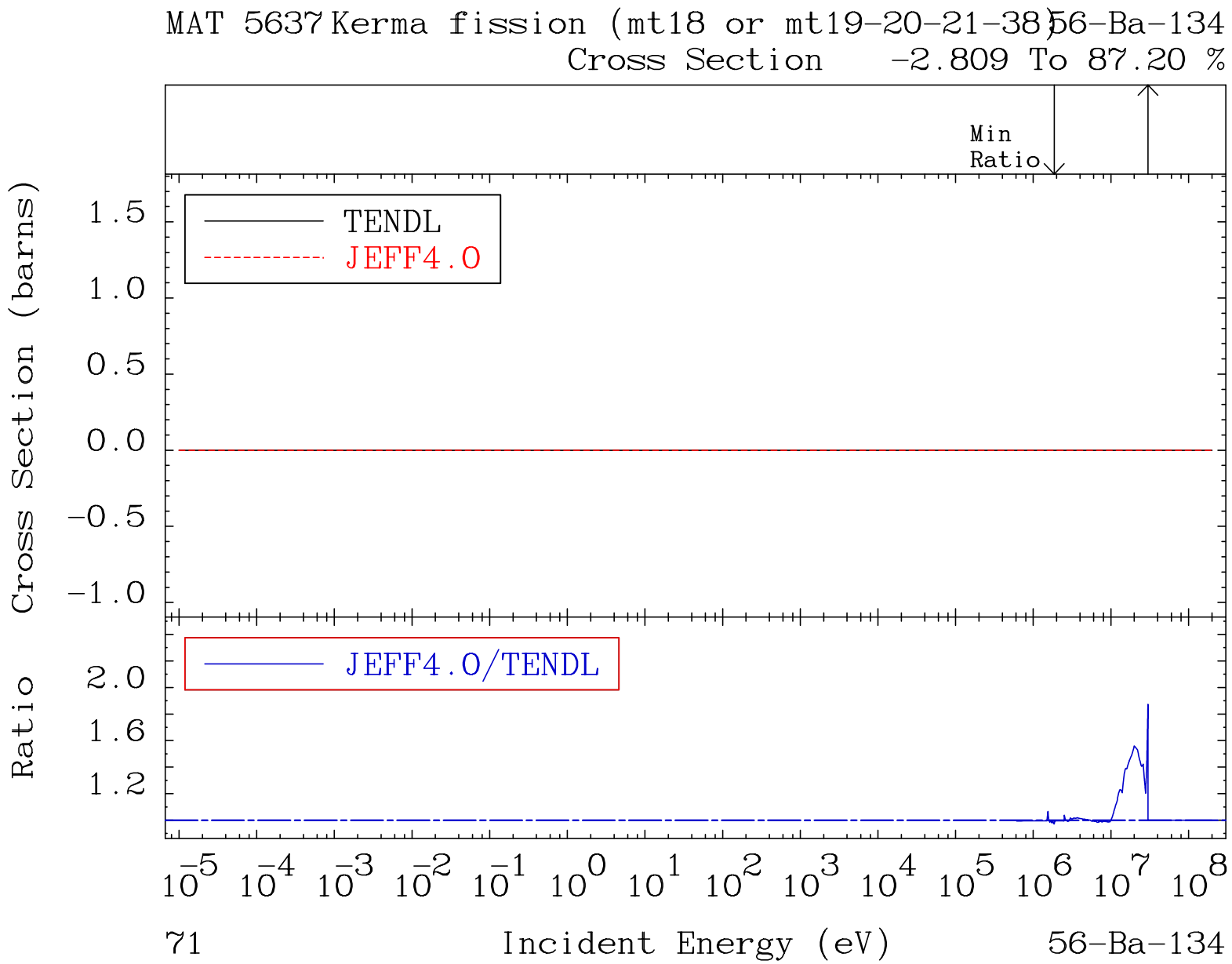

MAT 5637
(n,p):55-Cs-134m3
56-Ba-134
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 2.2000 MeV
JENDL5.0 Threshold 1.4258 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
56-Ba-134

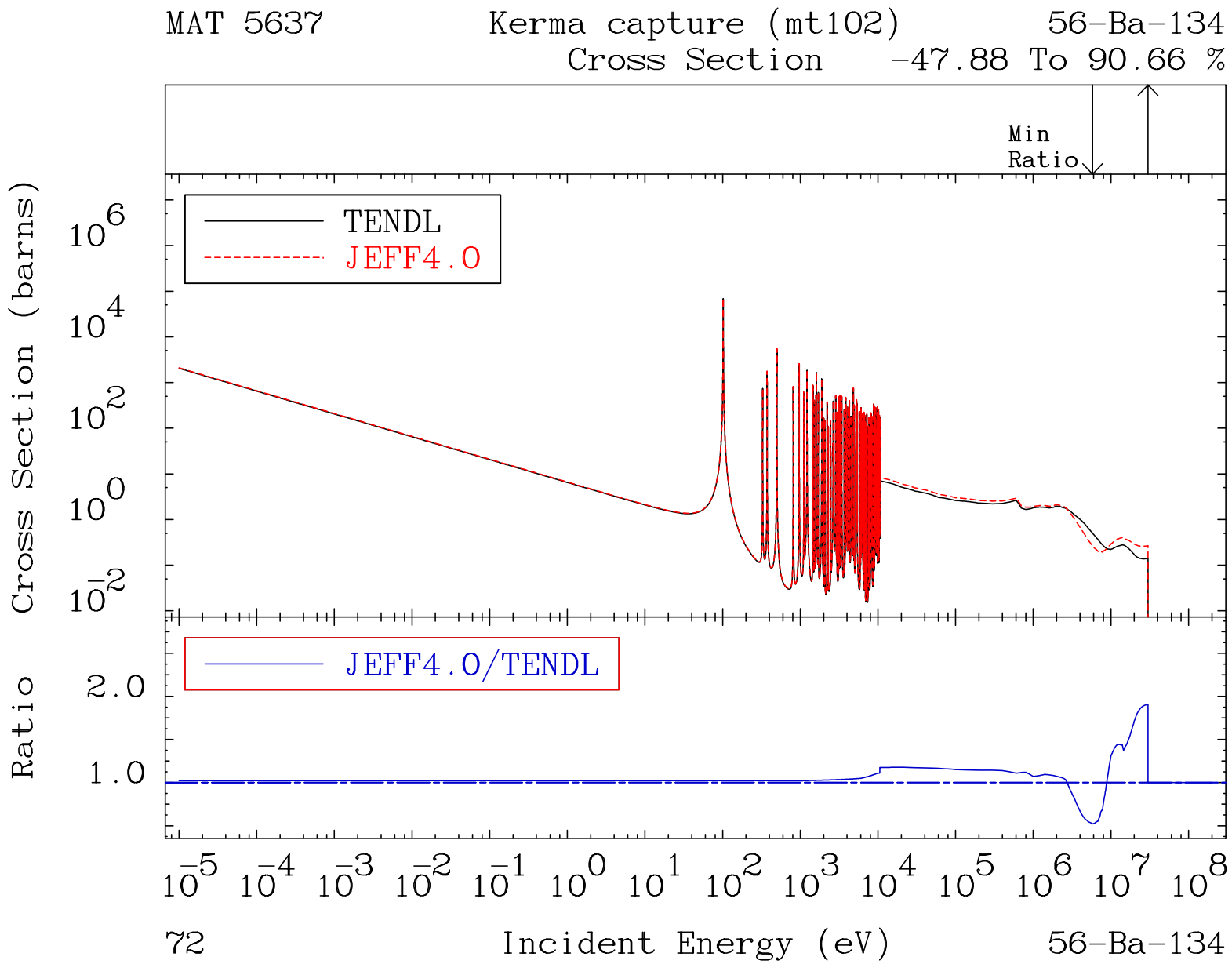

MAT 5637
Kerma total (eV-barns)
56-Ba-134
Cross Section -21.80 To 12.53 %
Max
Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
67
56-Ba-134

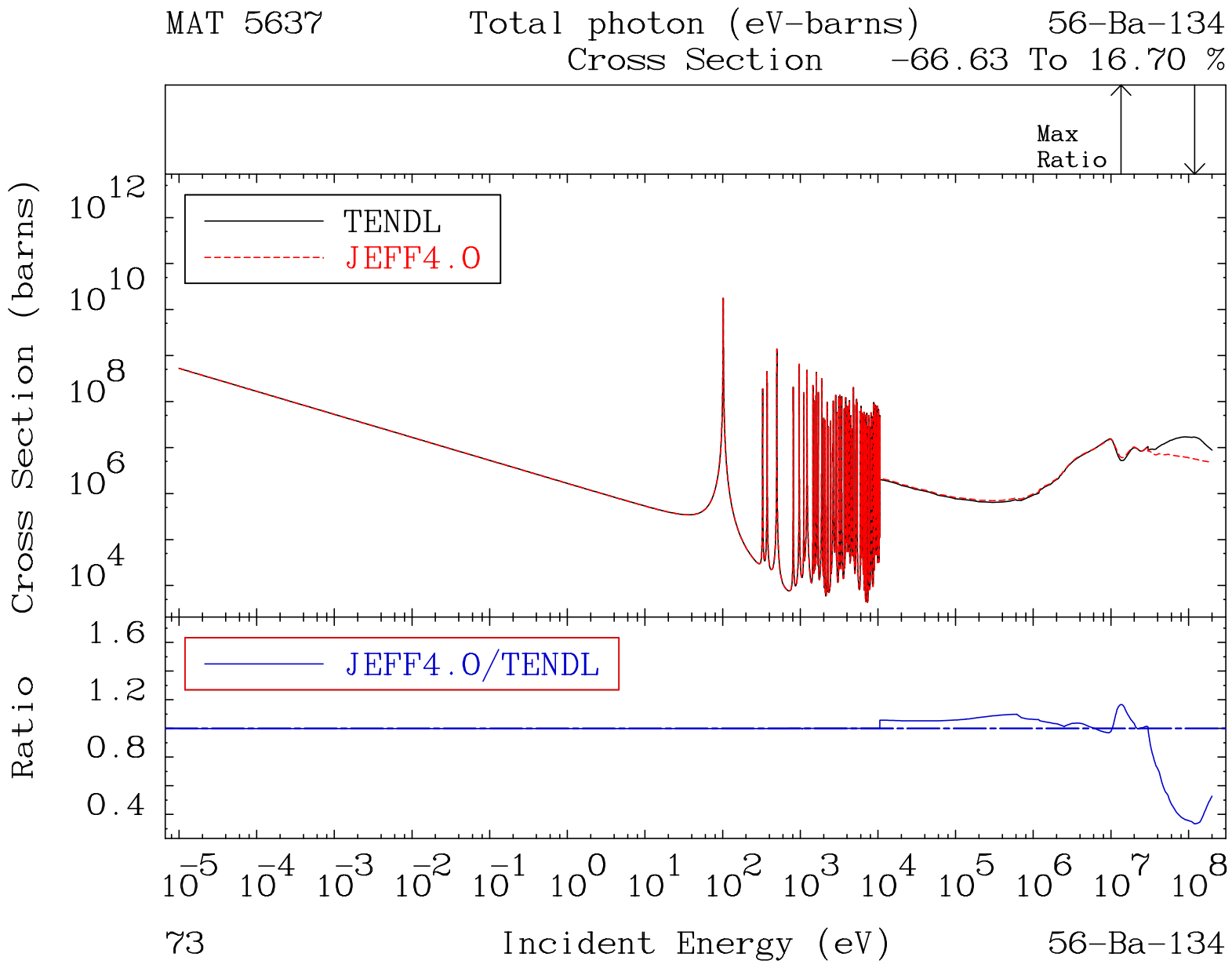

MAT 5637
Kerma elastic
Cross Section
56-Ba-134
-1.103 To 0.025 %
Max
Ratio
Min
Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^6
10^4
10^2
10^0
10^-2
10^-4
10^-6
JEFF4.0/TENDL
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
68
Incident Energy (eV)
56-Ba-134

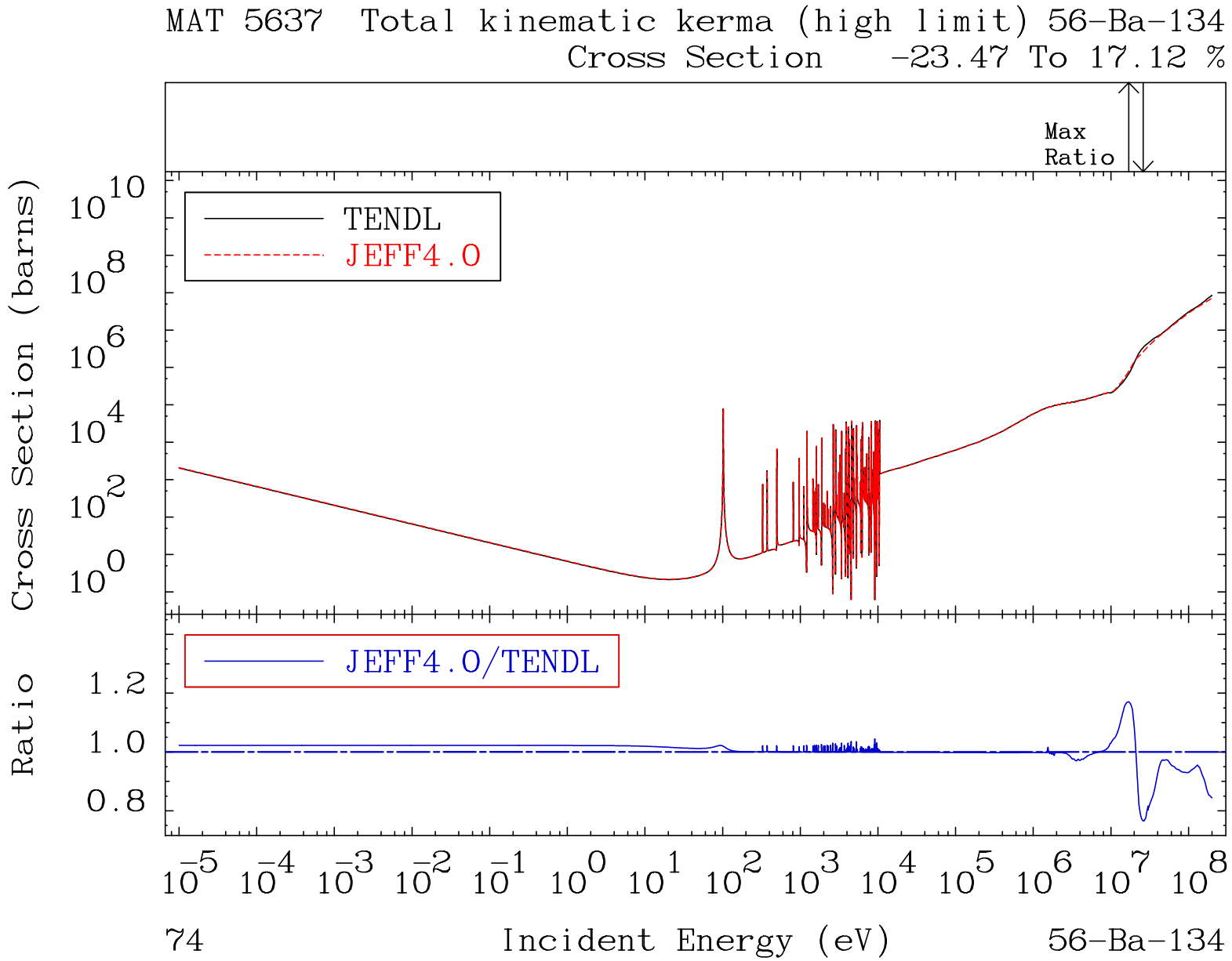

MAT 5637 Kerma non-elastic (all but mt2) 56-Ba-134
Cross Section -22.30 To 17.82 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
56-Ba-134

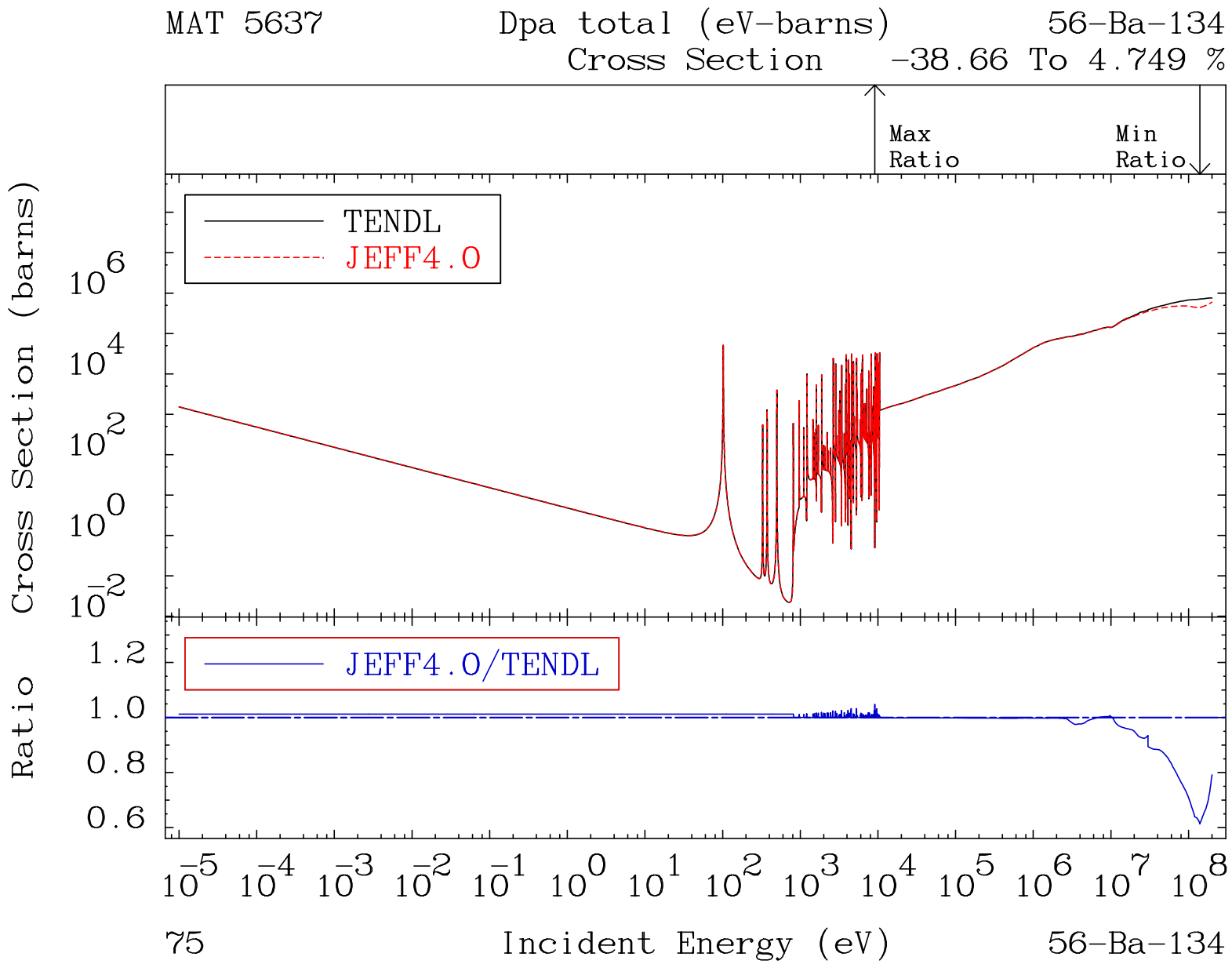

MAT 5637
Kerma inelastic (mt51-91)
56-Ba-134
Cross Section -2.809 To 87.20 %
Min Ratio
Max Ratio
TENDL Threshold 609.28 keV
JEFF4.0 Threshold 609.28 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
70
56-Ba-134

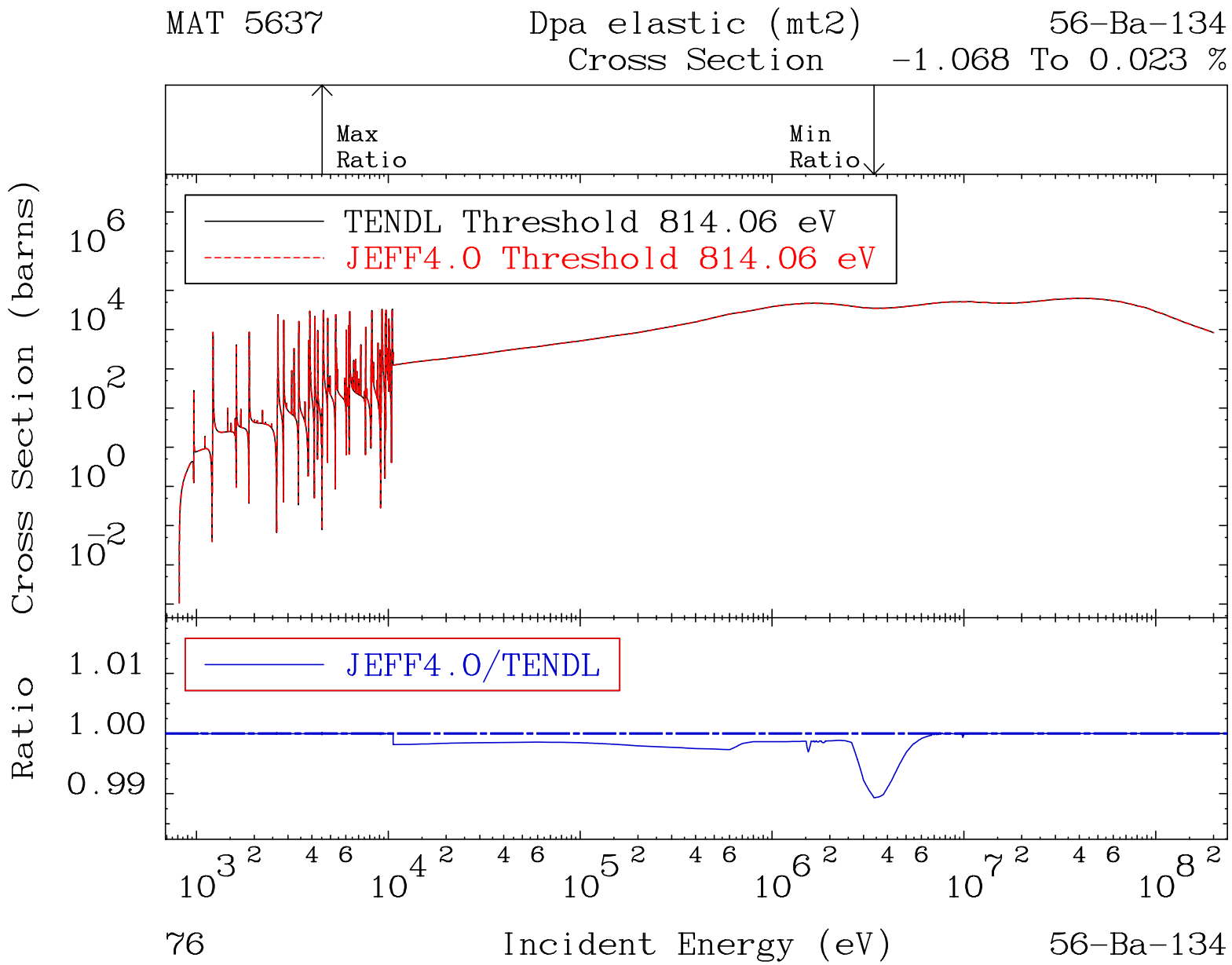

MAT 5637 Kerma fission (mt18 or mt19-20-21-38) 56-Ba-134
Cross Section -2.809 To 87.20 %
Min
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
2.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
71
Incident Energy (eV)
56-Ba-134

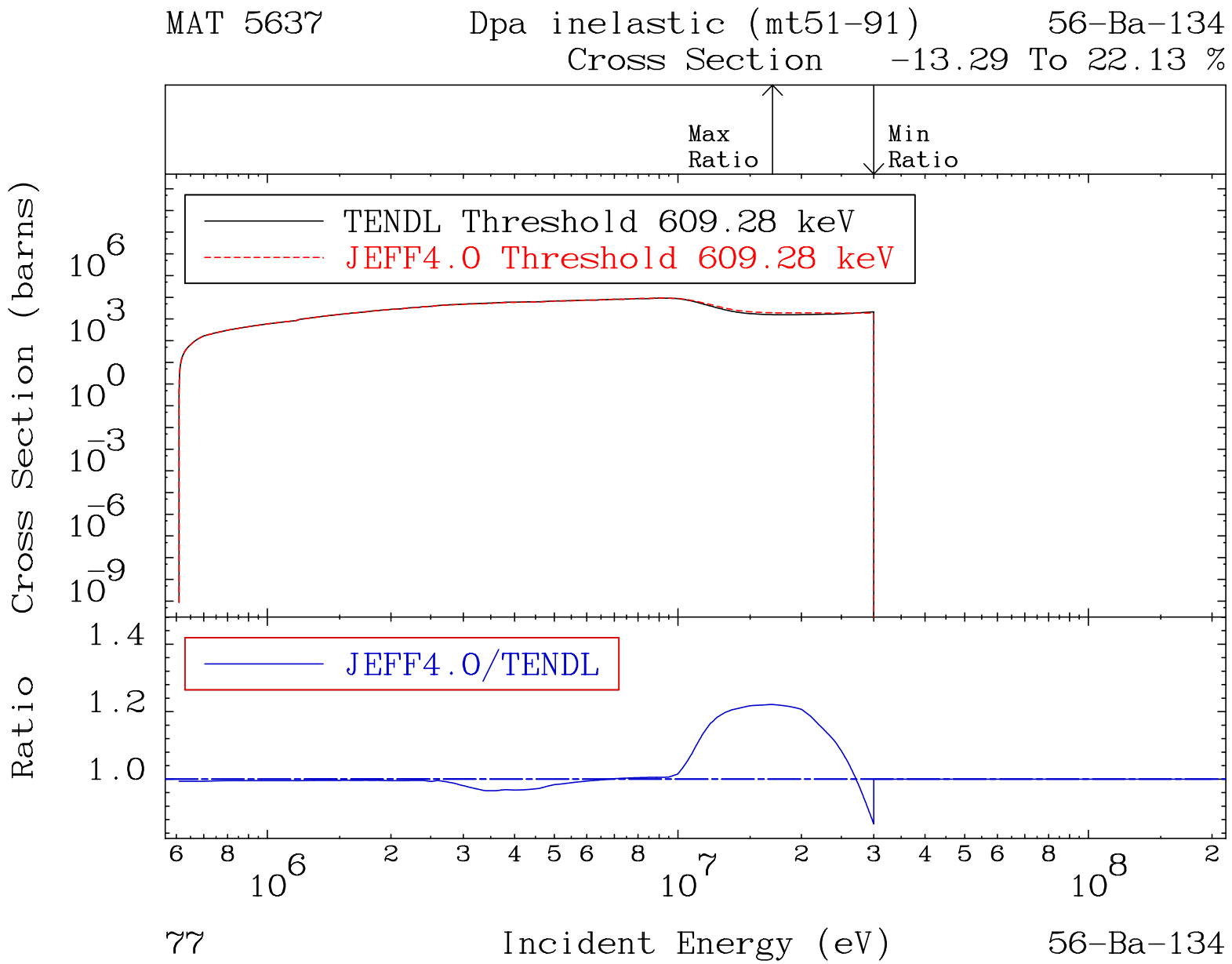

MAT 5637
Kerma capture (mt102)
56-Ba-134
Cross Section -47.88 To 90.66 %
Min
Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
72
56-Ba-134

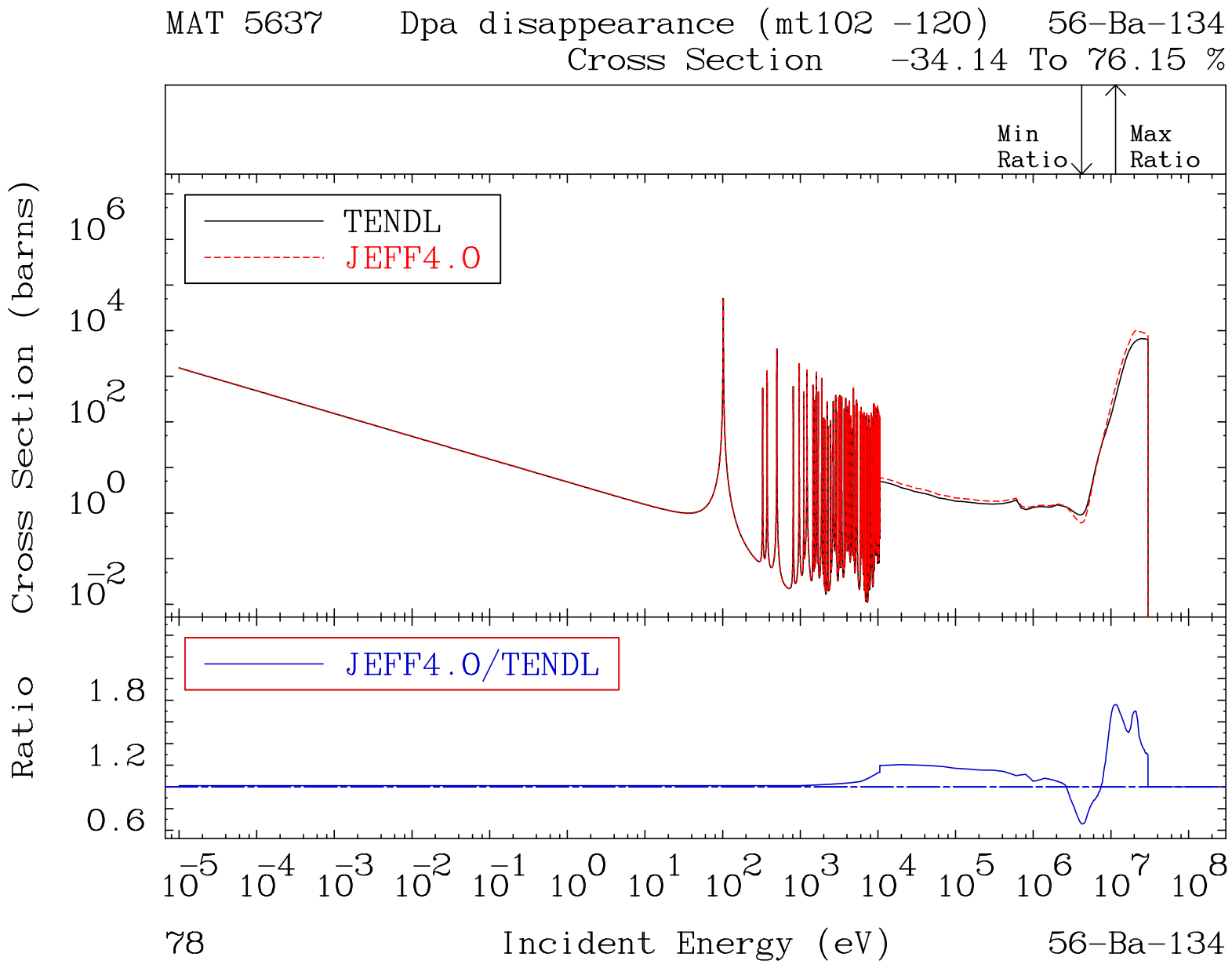

MAT 5637
Total photon (eV-barns)
56-Ba-134
Cross Section -66.63 To 16.70 %
Max
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
56-Ba-134

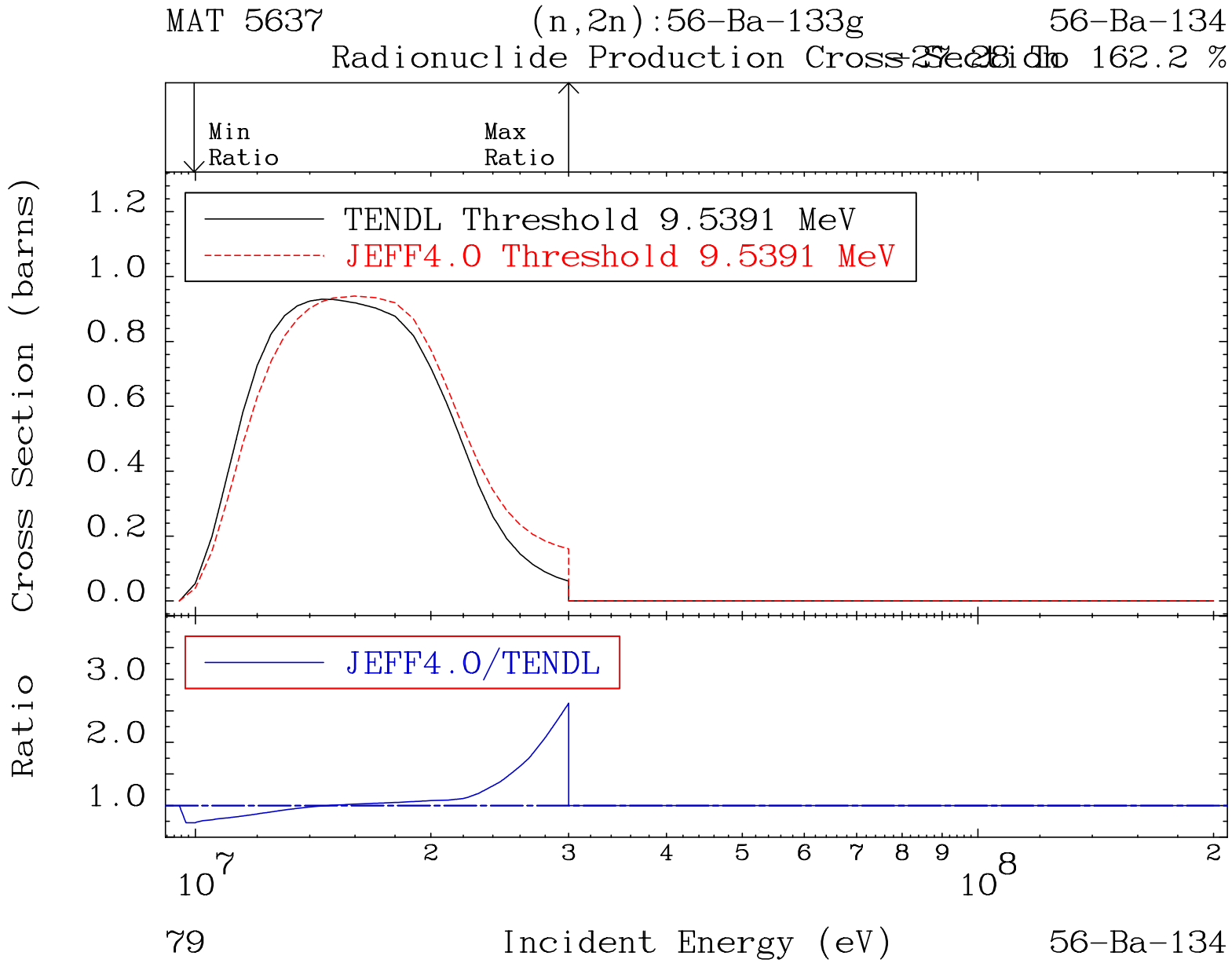

MAT 5637 Total kinematic kerma (high limit) 56-Ba-134
Cross Section -23.47 To 17.12 %
Max
Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
74
56-Ba-134

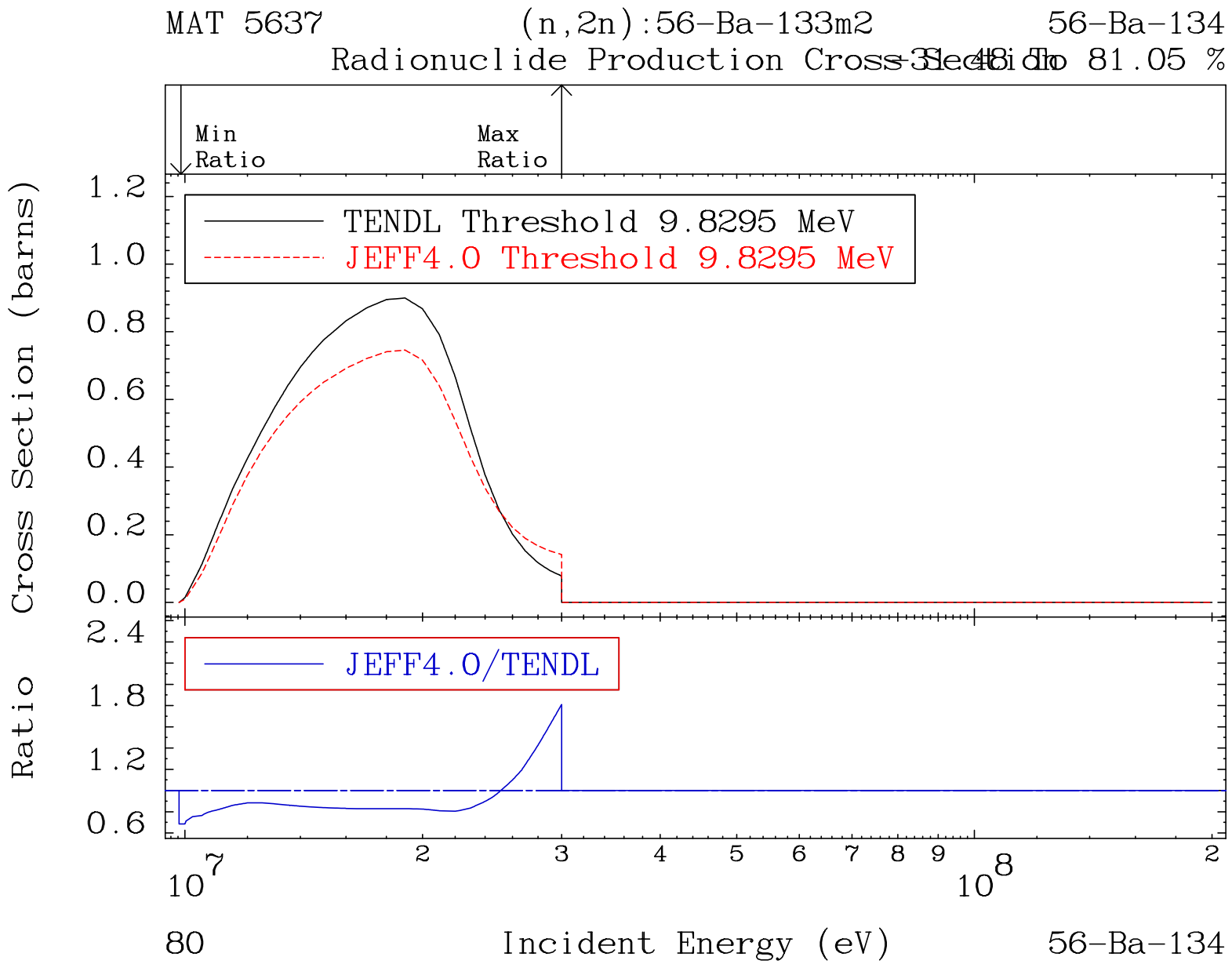

MAT 5637
Dpa total (eV-barns)
56-Ba-134
Cross Section
-38.66 To 4.749 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
75
56-Ba-134

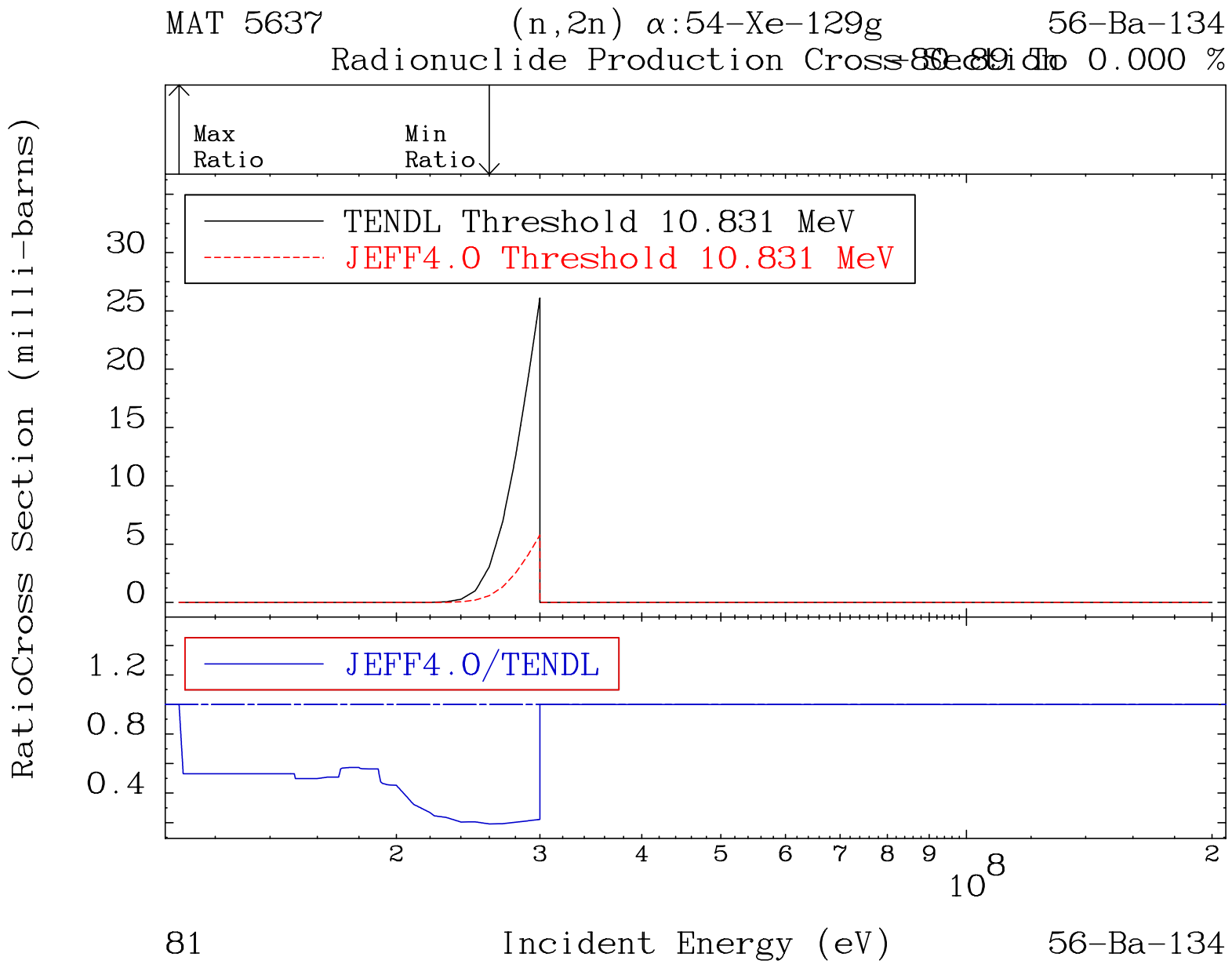

MAT 5637
Dpa elastic (mt2)
Cross Section
56-Ba-134
-1.068 To 0.023 %
Max
Ratio
Min
Ratio
TENDL Threshold 814.06 eV
JEFF4.0 Threshold 814.06 eV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
76
56-Ba-134

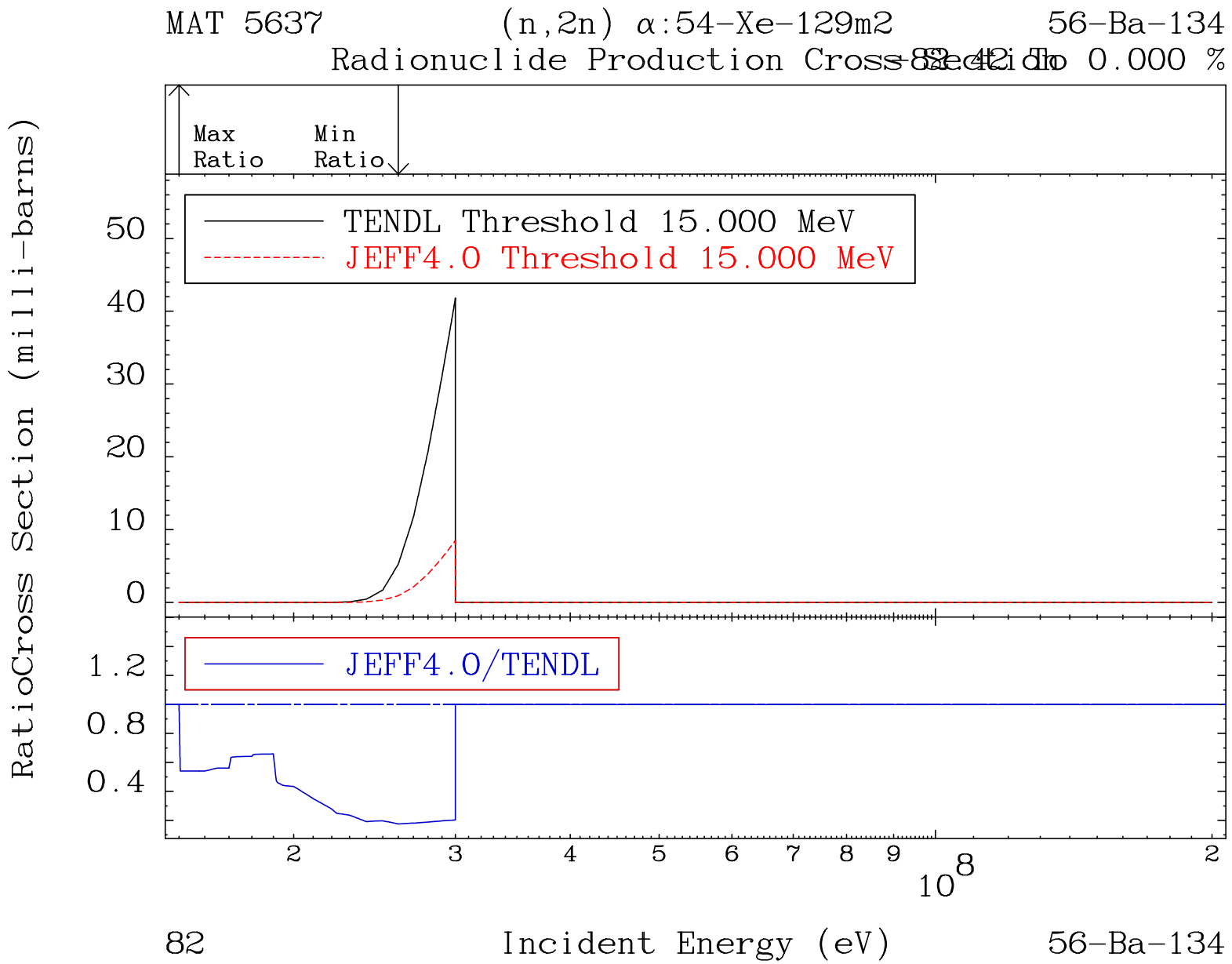

MAT 5637
Dpa inelastic (mt51-91)
56-Ba-134
Cross Section
-13.29 To 22.13 %
Max Ratio
Min Ratio
TENDL Threshold 609.28 keV
JEFF4.0 Threshold 609.28 keV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
56-Ba-134

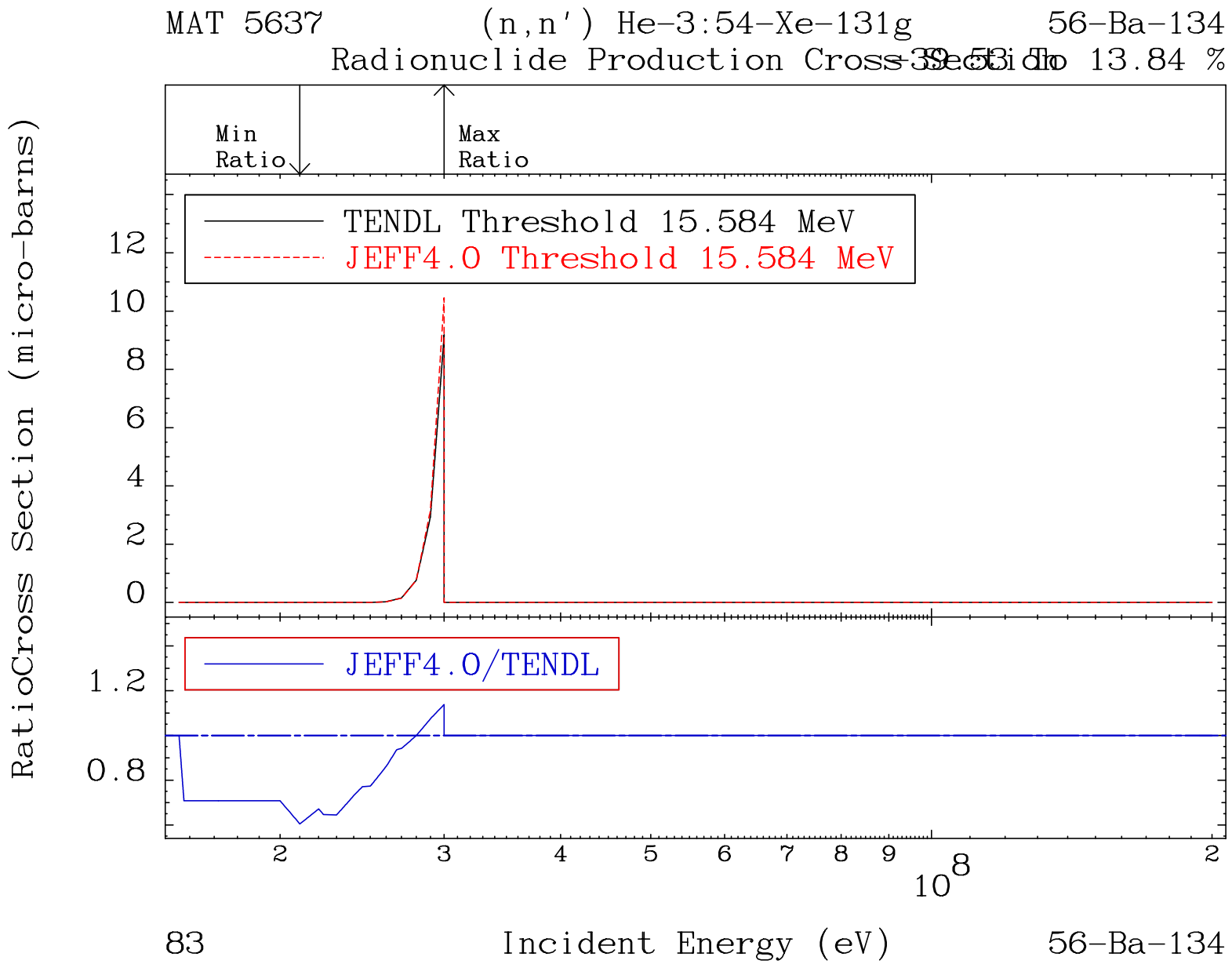

MAT 5637 Dpa disappearance (mt102 -120) 56-Ba-134
Cross Section -34.14 To 76.15 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
78
56-Ba-134

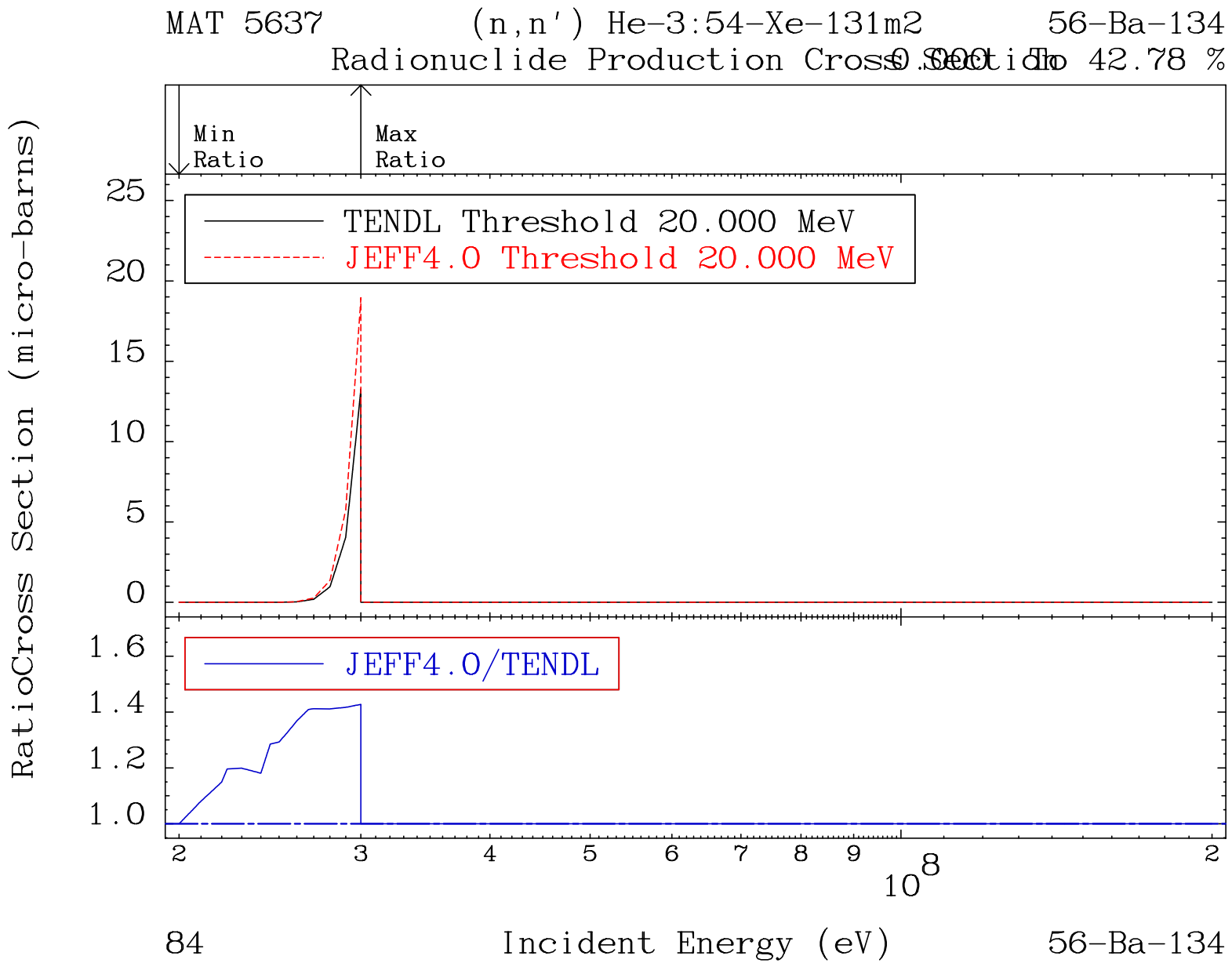

MAT 5637
(n,2n):56-Ba-133g
56-Ba-134
Radionuclide Production Cross Section To 162.2 %
Min Ratio
Max Ratio
TENDL Threshold 9.5391 MeV
JEFF4.0 Threshold 9.5391 MeV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
56-Ba-134

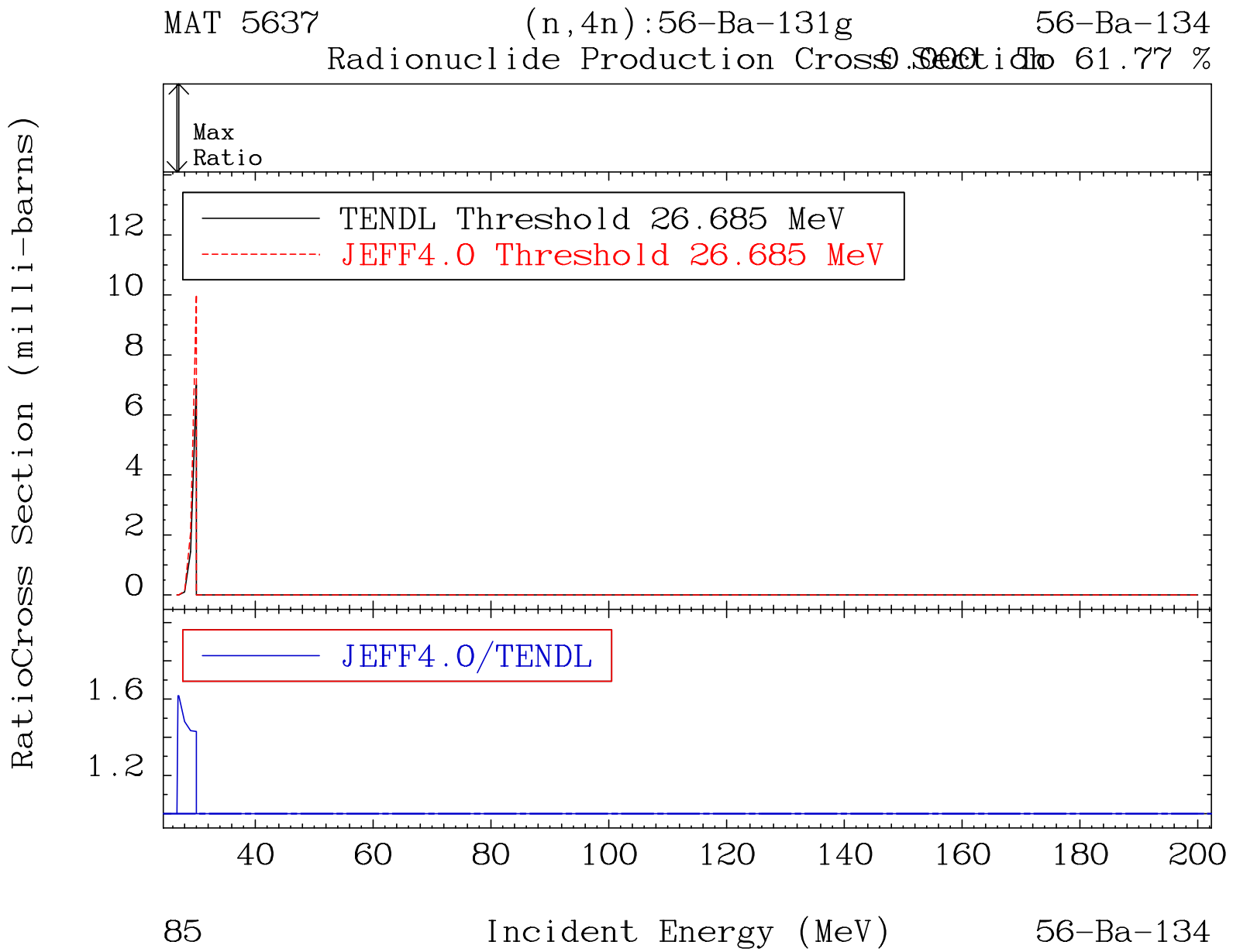

MAT 5637
(n,2n):56-Ba-133m2
56-Ba-134
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 9.8295 MeV
JEFF4.0 Threshold 9.8295 MeV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
80
56-Ba-134

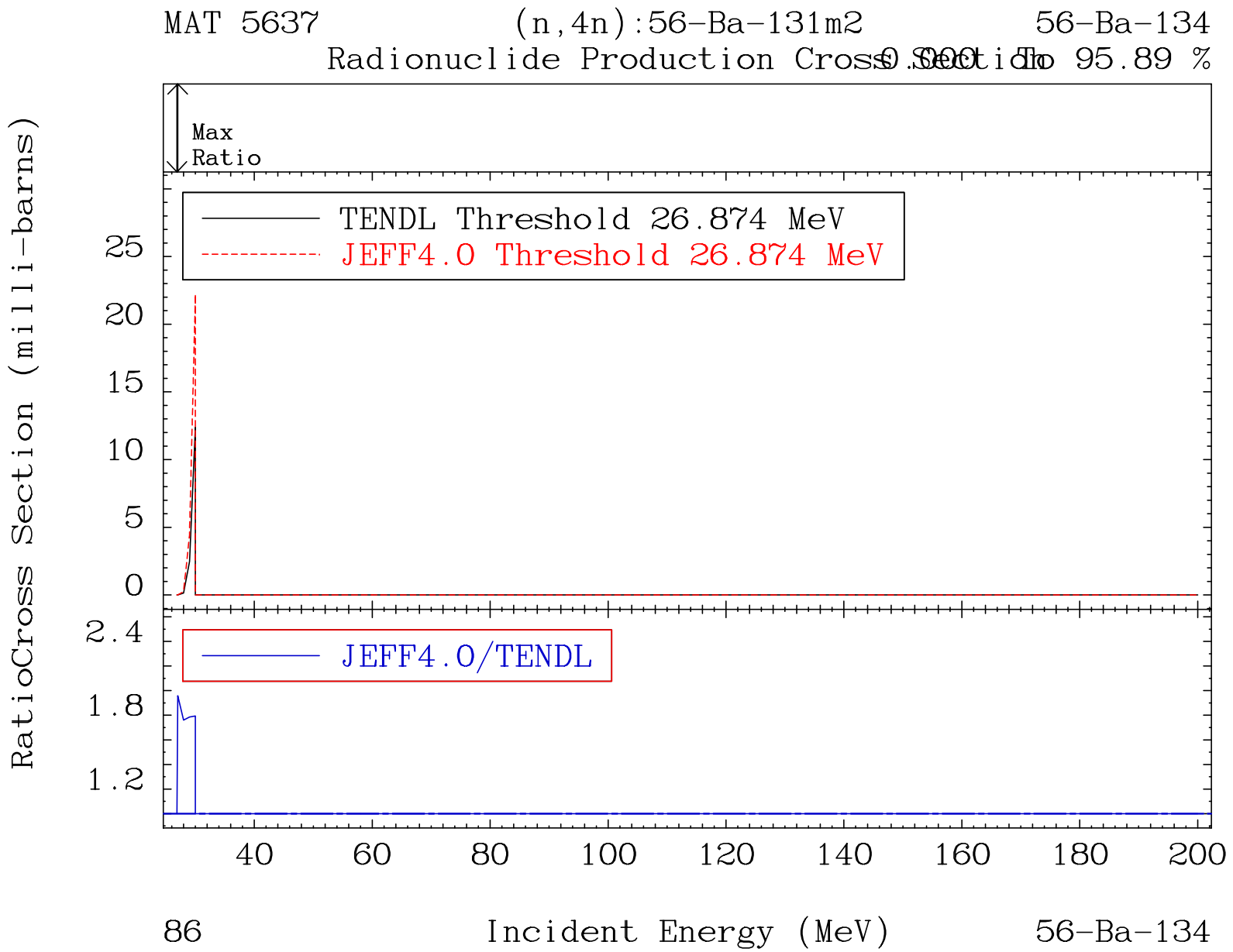

MAT 5637
(n,2n) α:54-Xe-129g
56-Ba-134
Radionuclide Production Cross Section
Uncertainty 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 10.831 MeV
JEFF4.0 Threshold 10.831 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
56-Ba-134

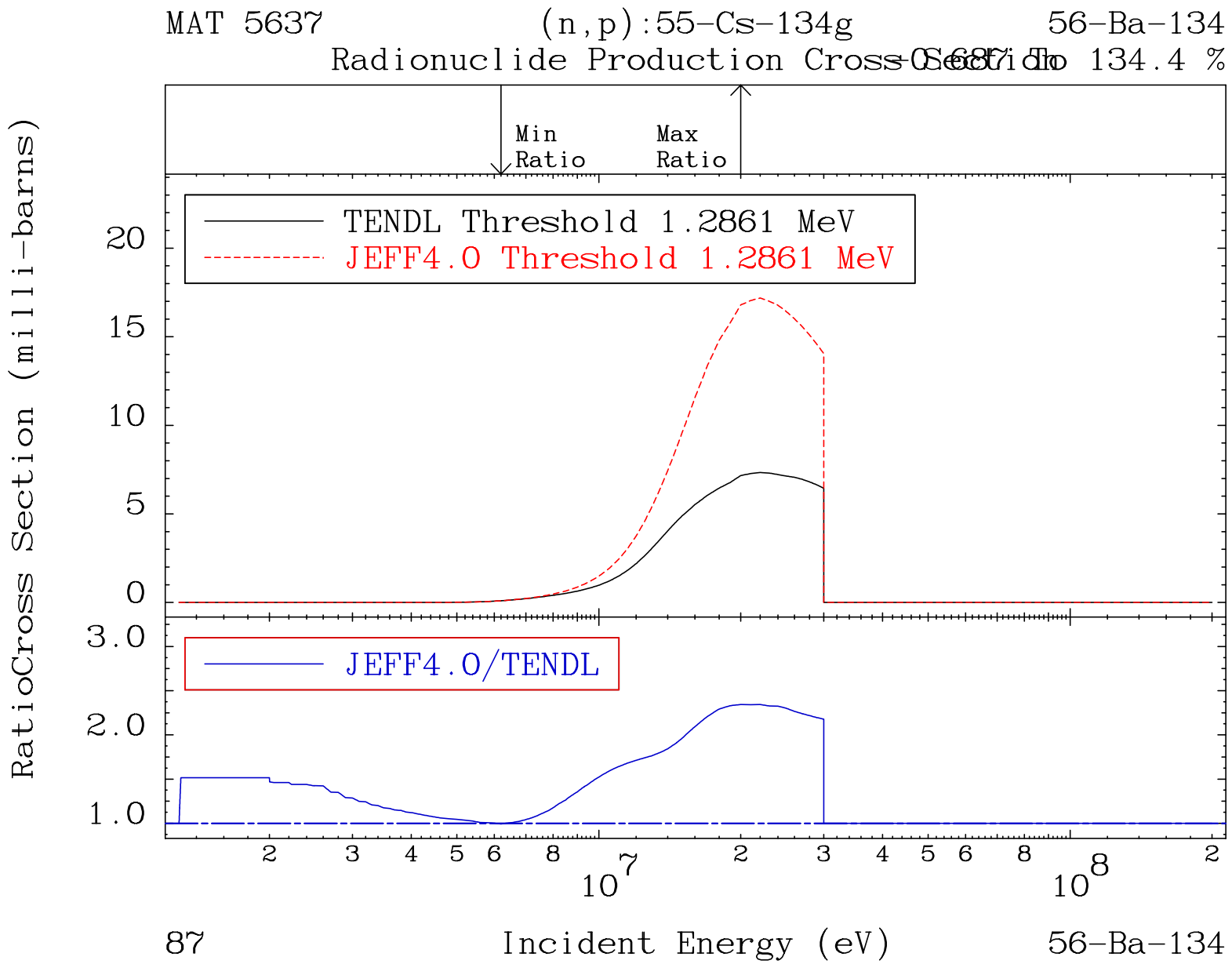

MAT 5637
(n,2n) α:54-Xe-129m2
56-Ba-134
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 15.000 MeV
JEFF4.0 Threshold 15.000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
56-Ba-134

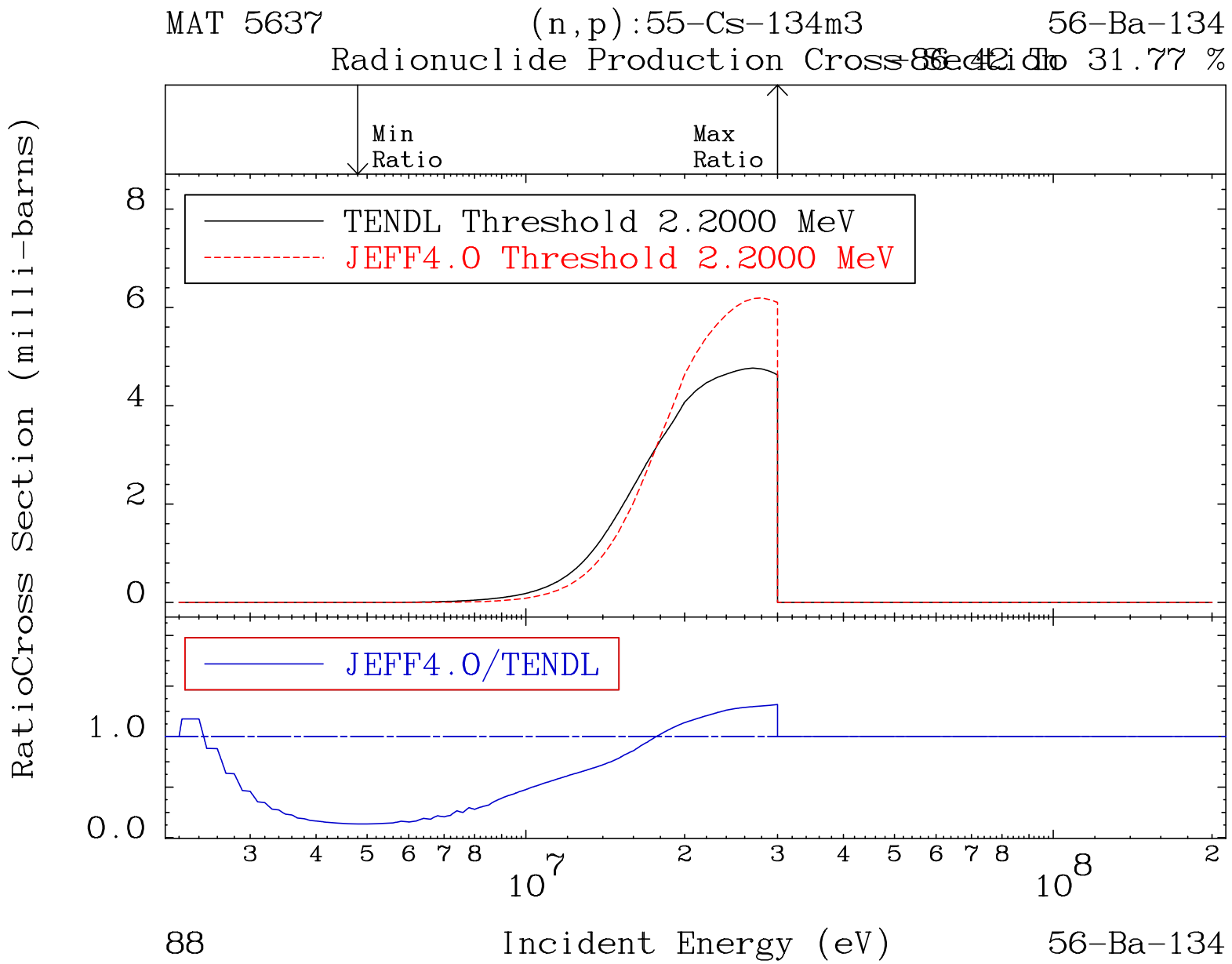

MAT 5637 (n,n') He-3:54-Xe-131g 56-Ba-134
Radionuclide Production Cross-Section To 13.84 %
Min Ratio
Max Ratio
TENDL Threshold 15.584 MeV
JEFF4.0 Threshold 15.584 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
12
10
8
6
4
2
0
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
56-Ba-134

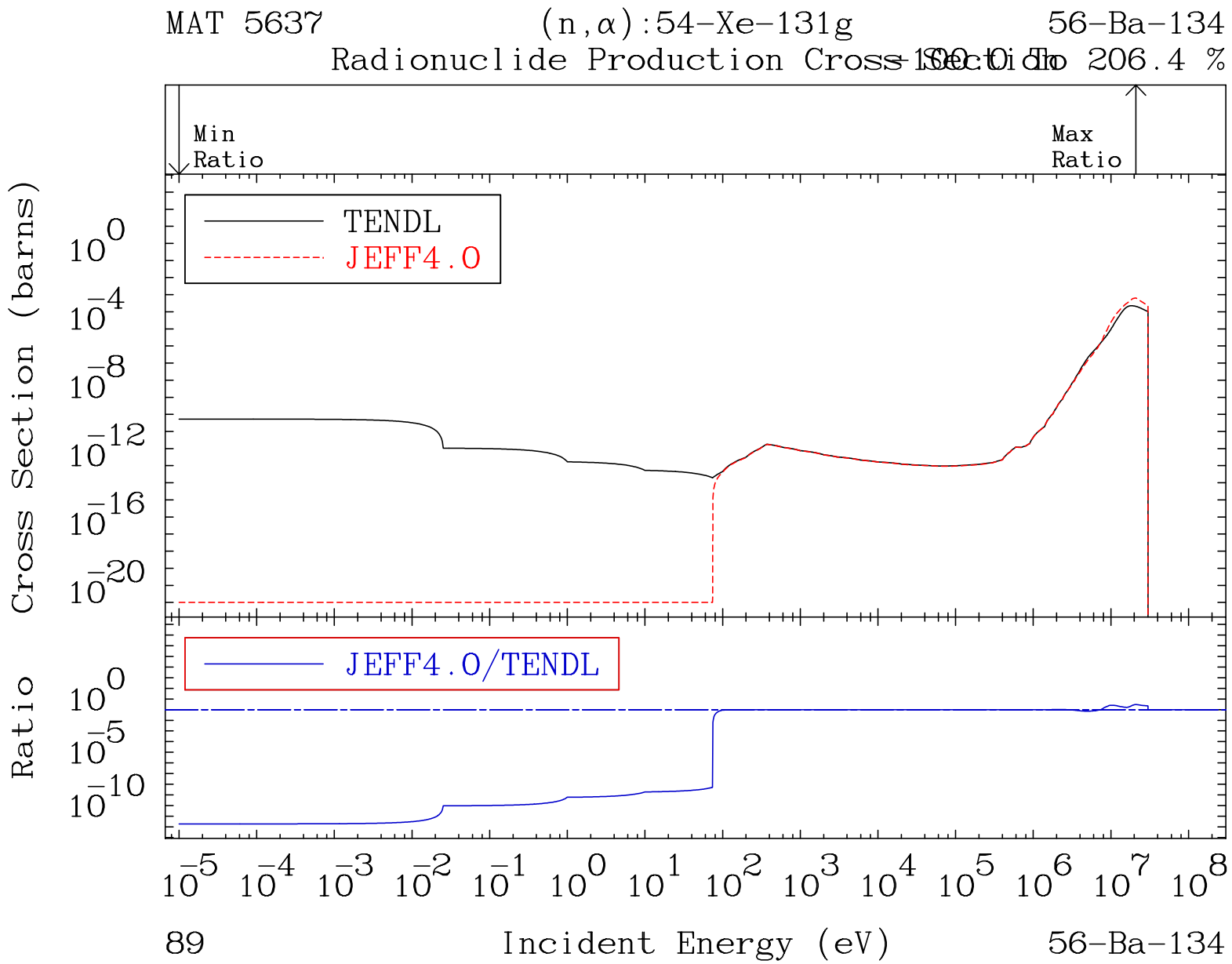

MAT 5637 (n,n') He-3:54-Xe-131m2 56-Ba-134
Radionuclide Production Cross Section
0.000 To 42.78 %
Min Ratio
Max Ratio
TENDL Threshold 20.000 MeV
JEFF4.0 Threshold 20.000 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
56-Ba-134

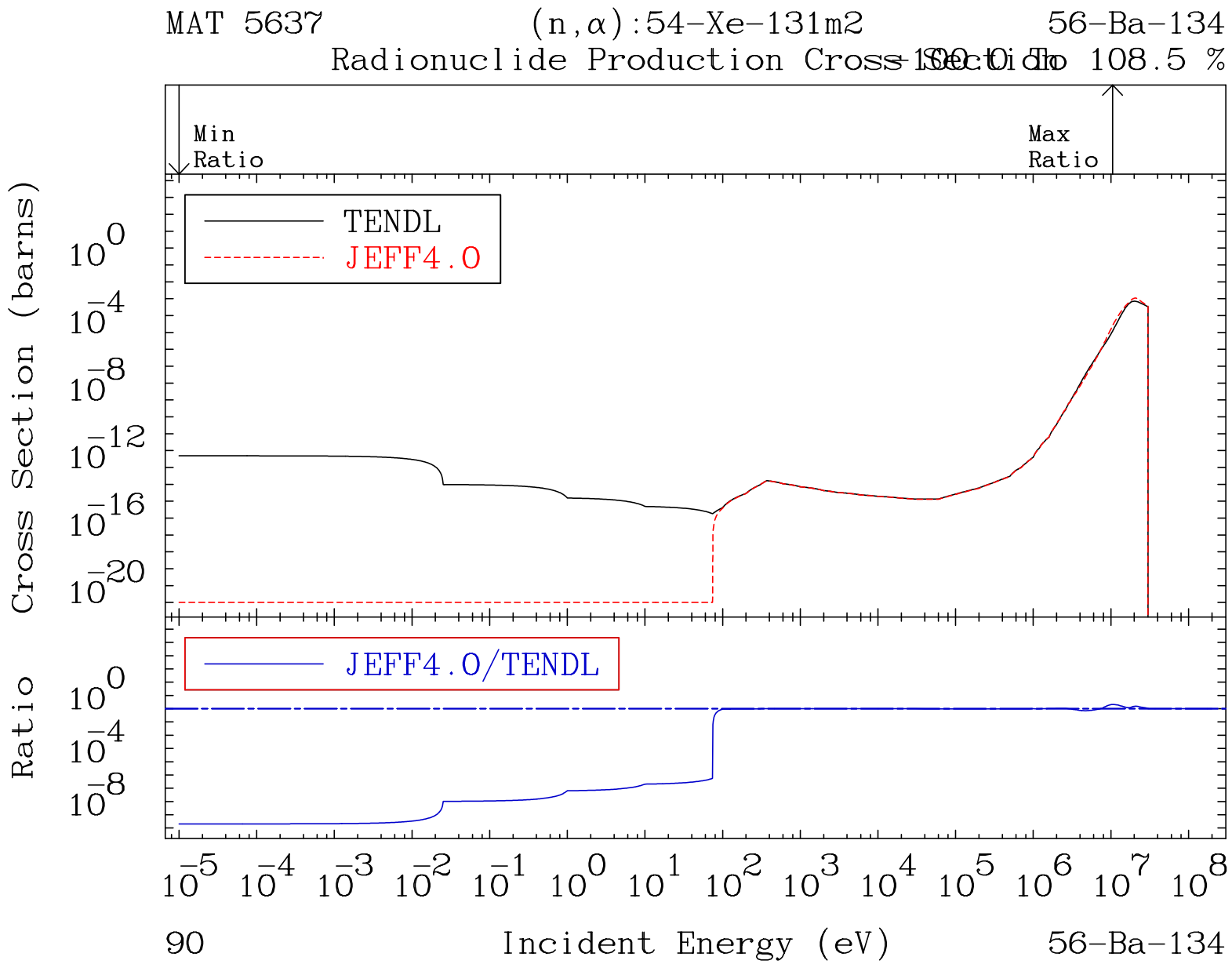

MAT 5637
(n,4n):56-Ba-131g
56-Ba-134
Radionuclide Production Cross Section
0.000 To 61.77 %
Max
Ratio
TENDL Threshold 26.685 MeV
JEFF4.0 Threshold 26.685 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
10
12
1.2
1.6
40
60
80
100
120
140
160
180
200
85
Incident Energy (MeV)
56-Ba-134

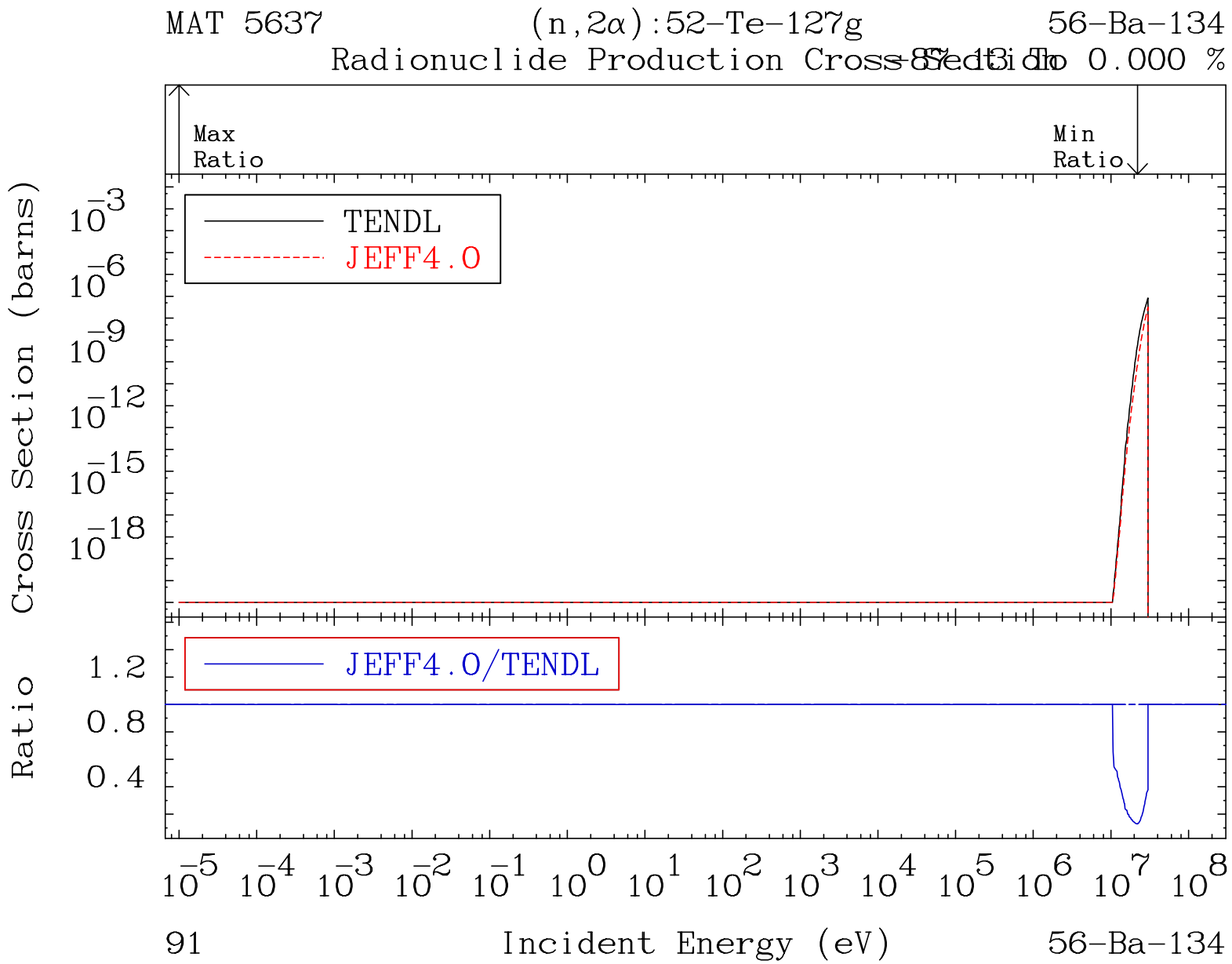

MAT 5637
(n,4n):56-Ba-131m2
56-Ba-134
Radionuclide Production Cross Section
0.000 To 95.89 %
Max
Ratio
TENDL Threshold 26.874 MeV
JEFF4.0 Threshold 26.874 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.4
1.8
1.2
40
60
80
100
120
140
160
180
200
86
Incident Energy (MeV)
56-Ba-134

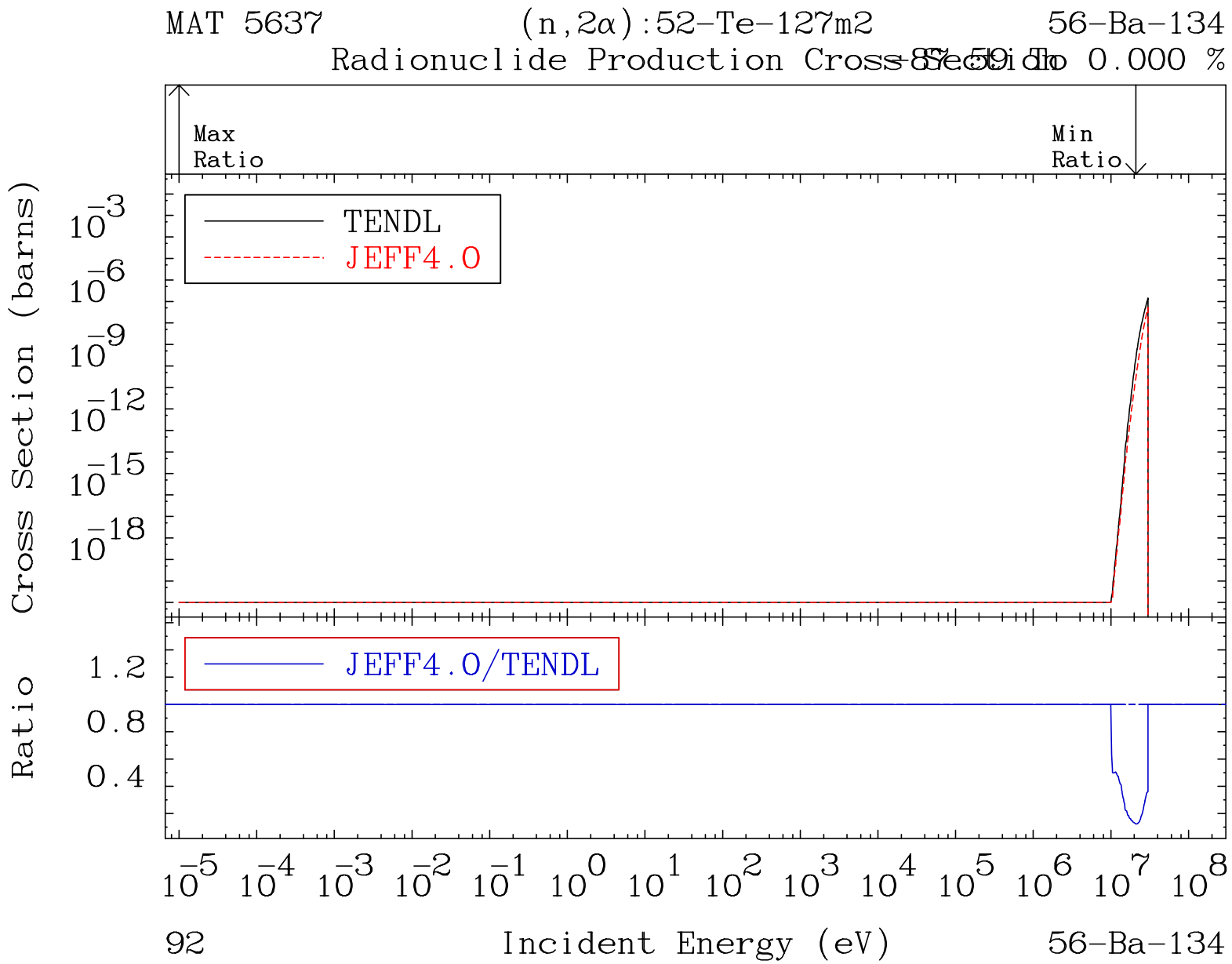

MAT 5637
(n,p):55-Cs-134g
56-Ba-134
Radionuclide Production Cross-Section To 134.4 %
Min Ratio
Max Ratio
TENDL Threshold 1.2861 MeV
JEFF4.0 Threshold 1.2861 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
87
56-Ba-134

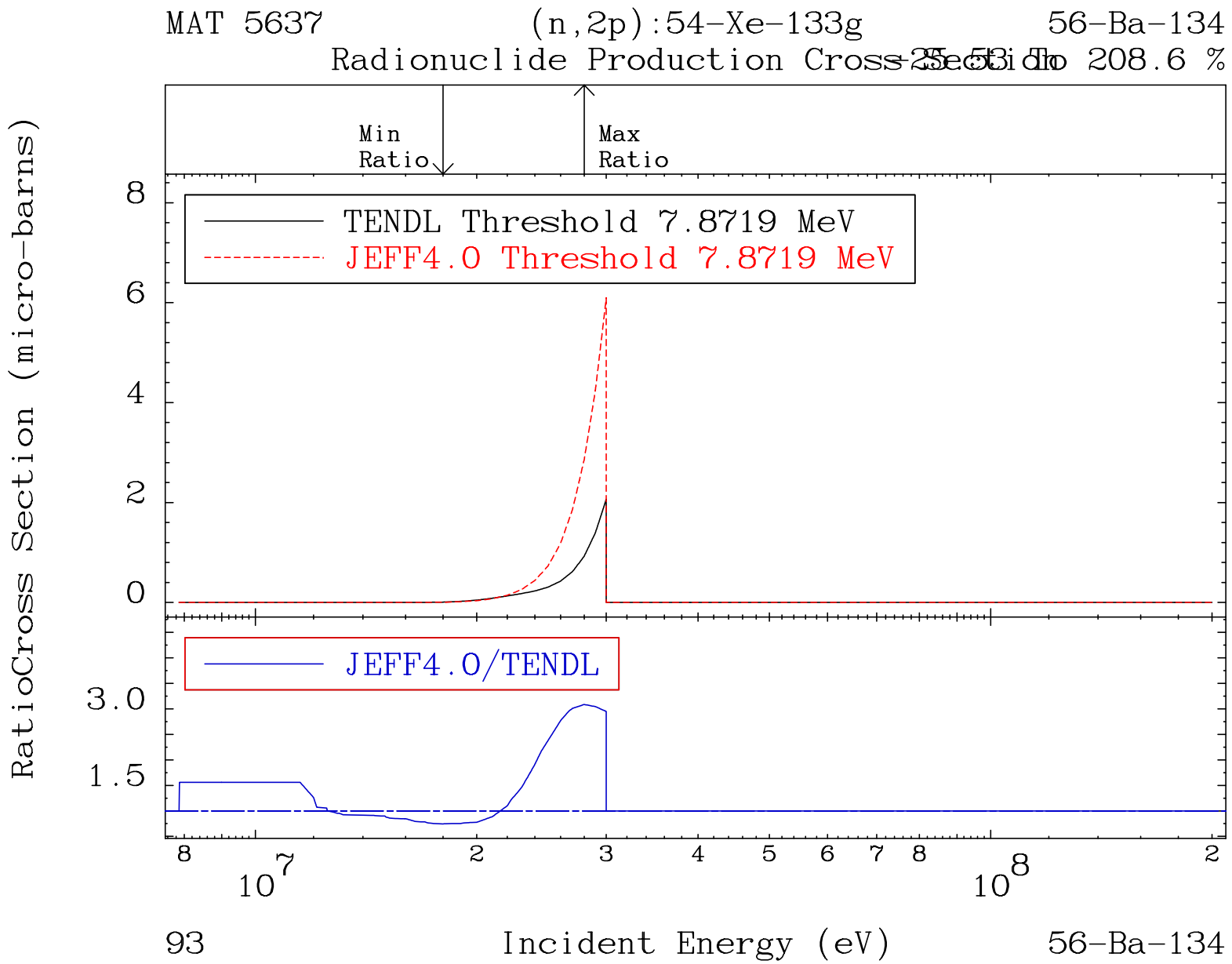

MAT 5637
(n,p):55-Cs-134m3
56-Ba-134
Radionuclide Production Cross-Section To 31.77 %
Min Ratio
Max Ratio
TENDL Threshold 2.2000 MeV
JEFF4.0 Threshold 2.2000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
88
56-Ba-134

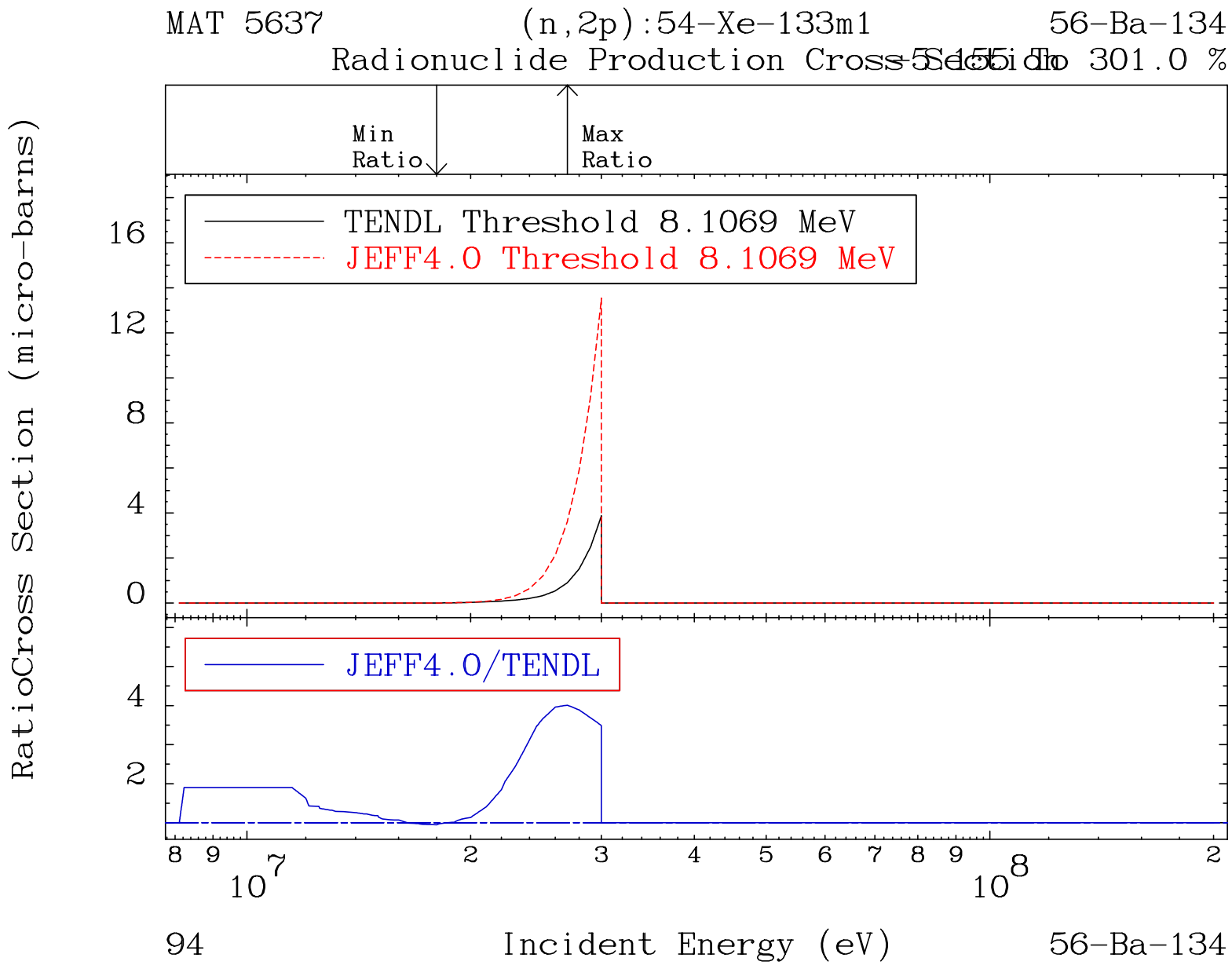

MAT 5637
(n,α):54-Xe-131g
56-Ba-134
Radionuclide Production Cross Section To 206.4 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
89
56-Ba-134

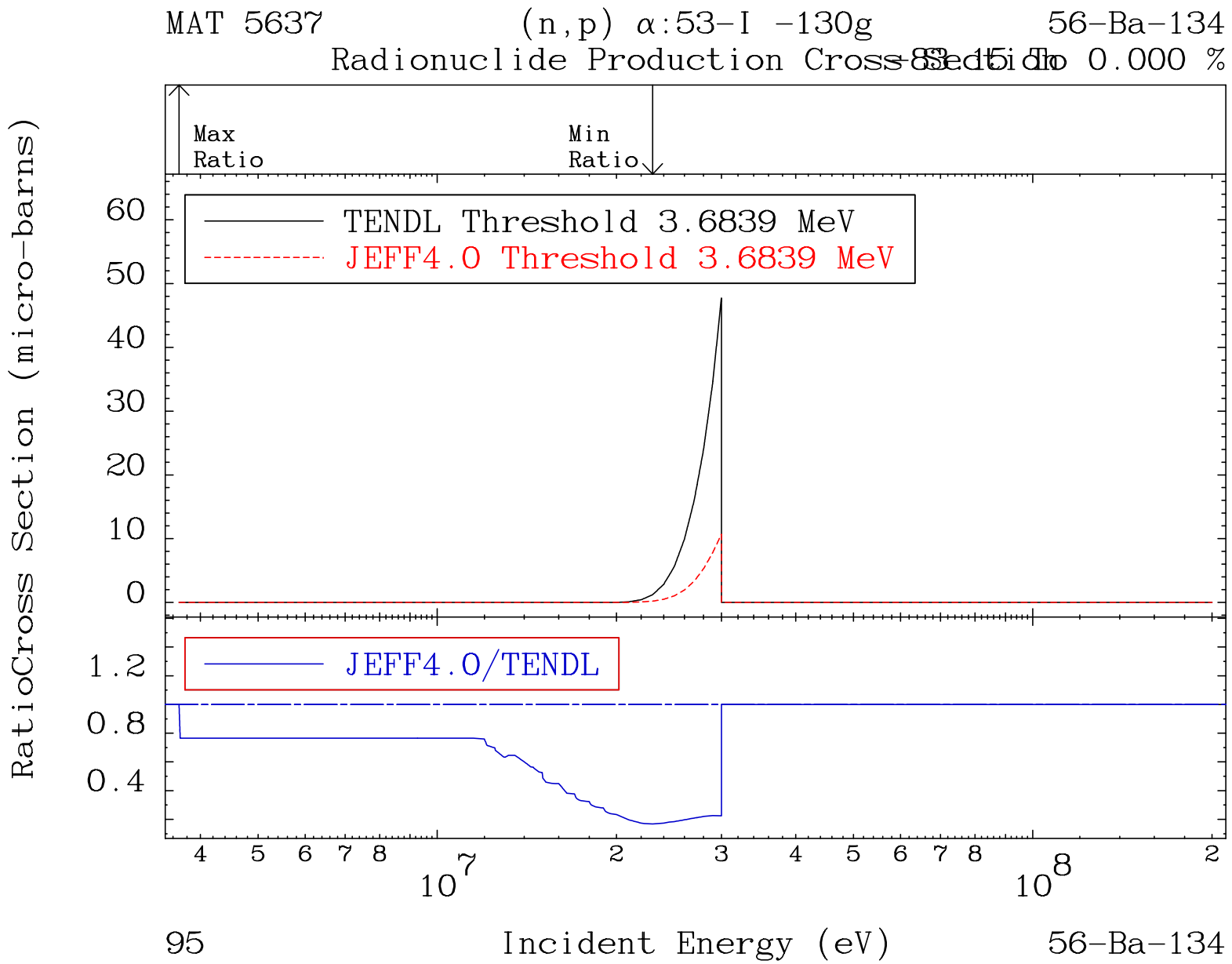

MAT 5637
(n,α):54-Xe-131m2
56-Ba-134
Radionuclide Production Cross Section To 108.5 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
90
56-Ba-134

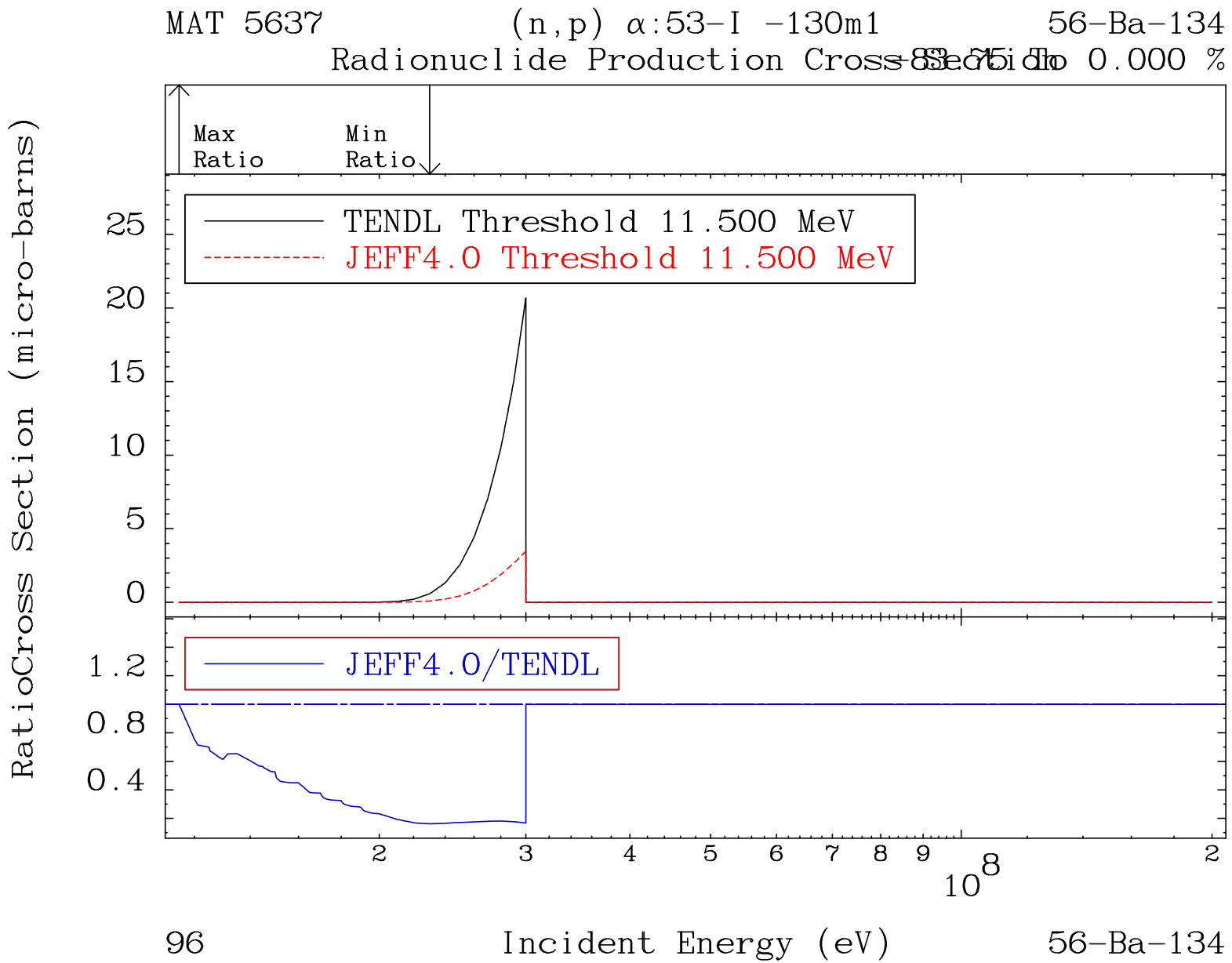

MAT 5637
(n,2α):52-Te-127g
56-Ba-134
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
91
56-Ba-134

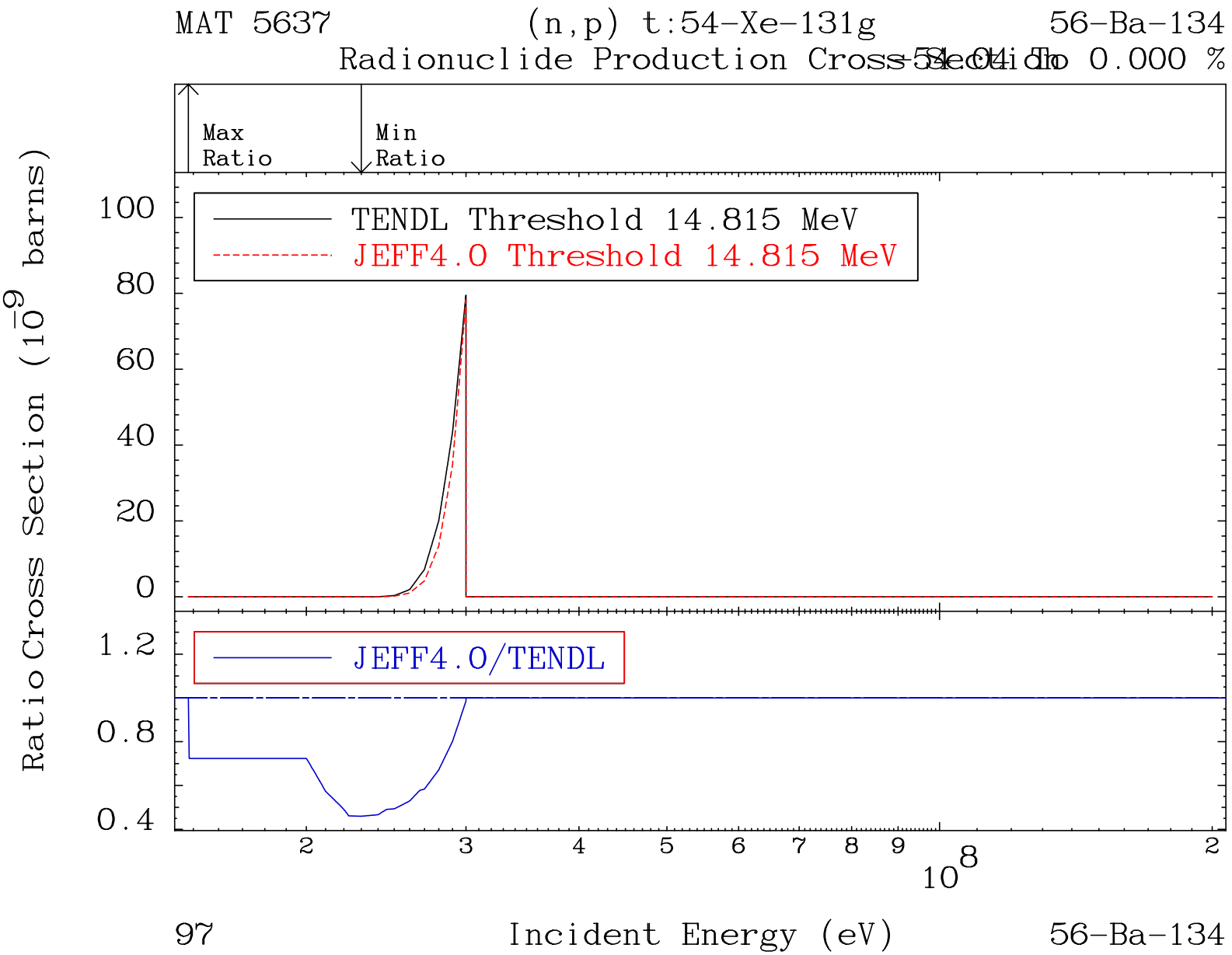

MAT 5637
(n,2α):52-Te-127m2
56-Ba-134
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
92
56-Ba-134

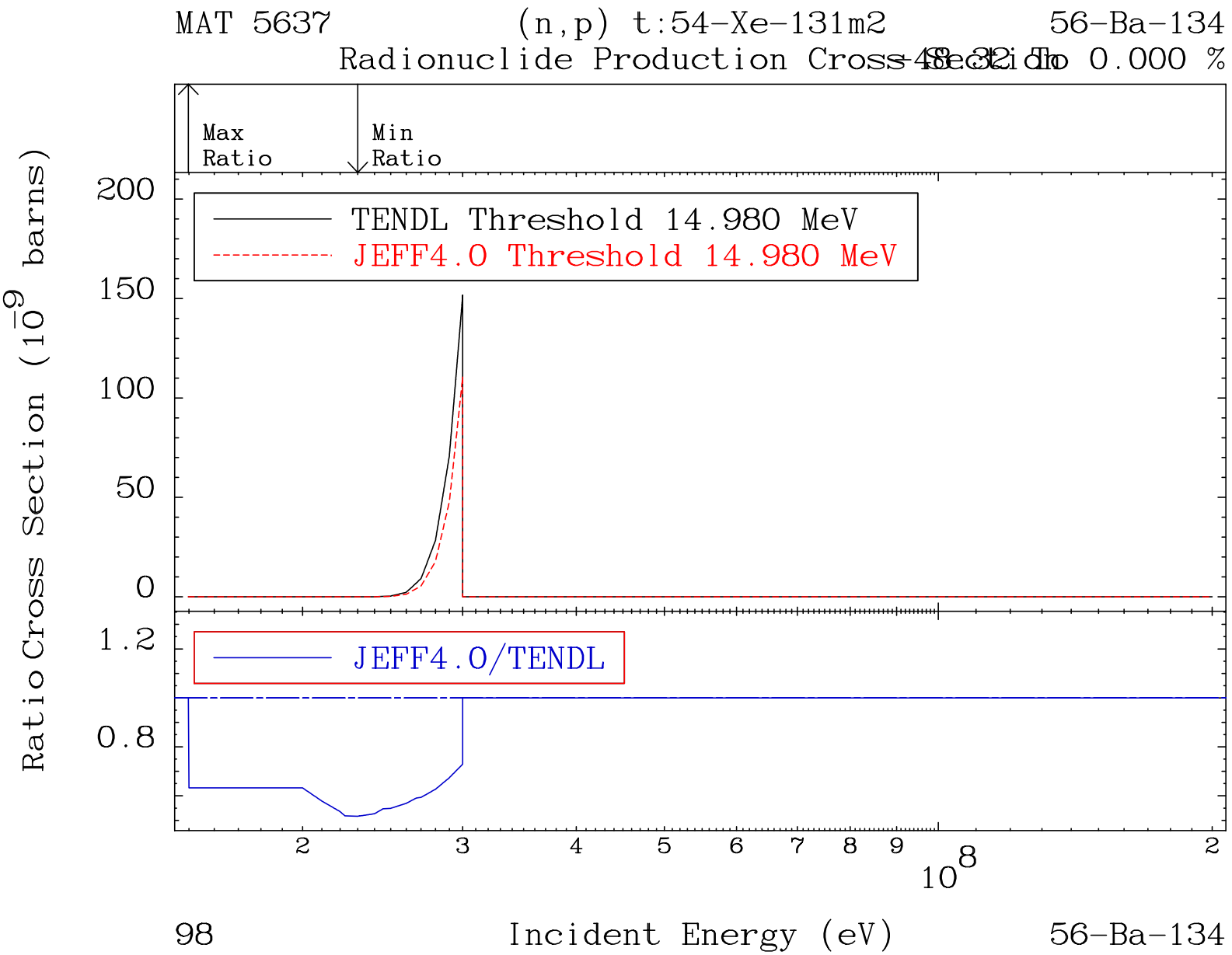

MAT 5637
(n,2p):54-Xe-133g
56-Ba-134
Radionuclide Production Cross Section To 208.6 %
Min Ratio
Max Ratio
TENDL Threshold 7.8719 MeV
JEFF4.0 Threshold 7.8719 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
93
56-Ba-134


MAT 5637
(n,2p):54-Xe-133m1
56-Ba-134
Radionuclide Production Cross-Section
Min Ratio
Max Ratio
TENDL Threshold 8.1069 MeV
JEFF4.0 Threshold 8.1069 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
94
56-Ba-134


MAT 5637
(n,p) α:53-I -130g
56-Ba-134
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 3.6839 MeV
JEFF4.0 Threshold 3.6839 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
60
50
40
30
20
10
0
1.2
0.8
0.4
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
95
Incident Energy (eV)
56-Ba-134


MAT 5637
(n,p) α:53-I -130m1
56-Ba-134
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 11.500 MeV
JEFF4.0 Threshold 11.500 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
56-Ba-134


MAT 5637
(n,p) t:54-Xe-131g
56-Ba-134
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 14.815 MeV
JEFF4.0 Threshold 14.815 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
97
56-Ba-134


MAT 5637
(n,p) t:54-Xe-131m2
56-Ba-134
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 14.980 MeV
JEFF4.0 Threshold 14.980 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
200
150
100
50
0
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
56-Ba-134