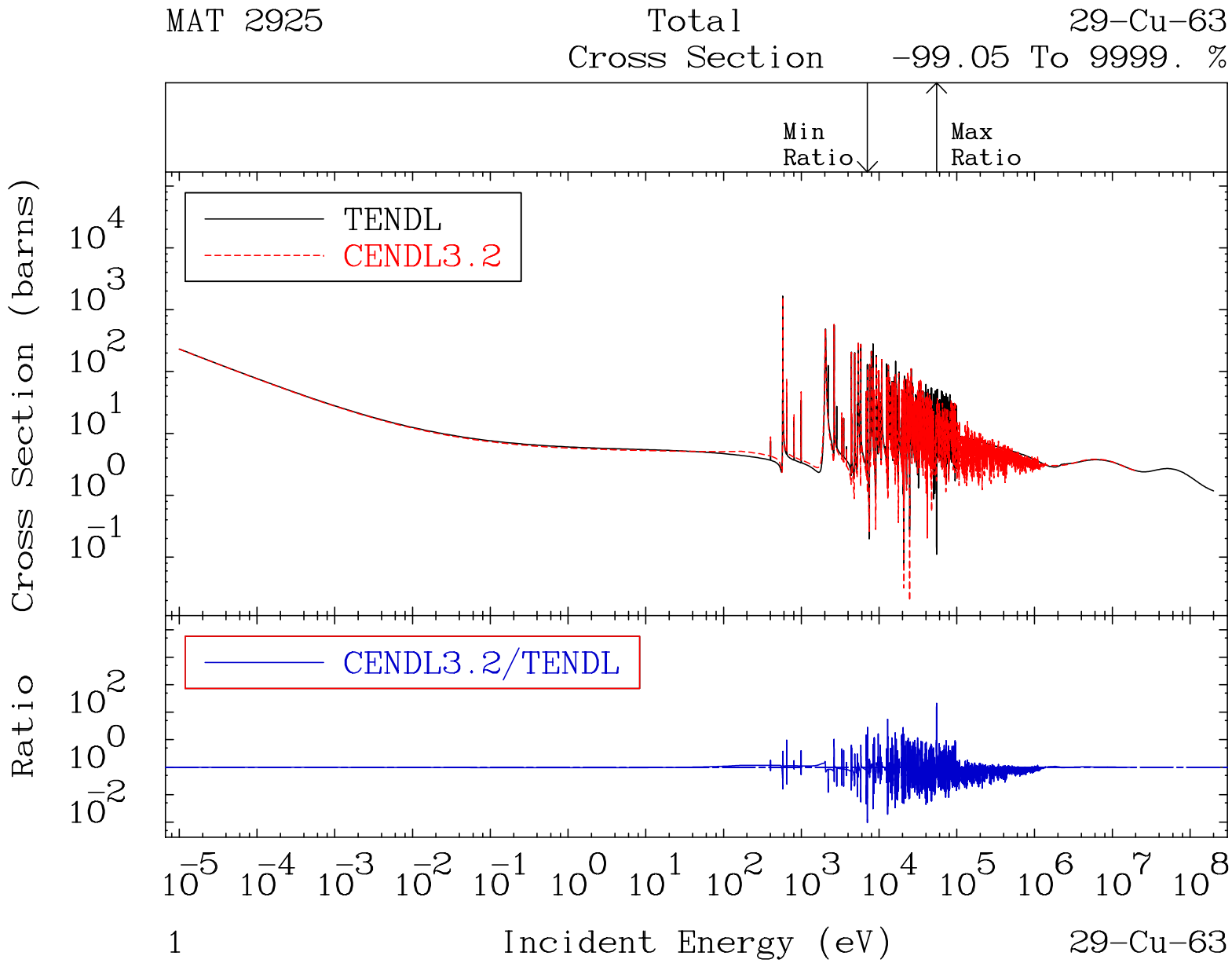
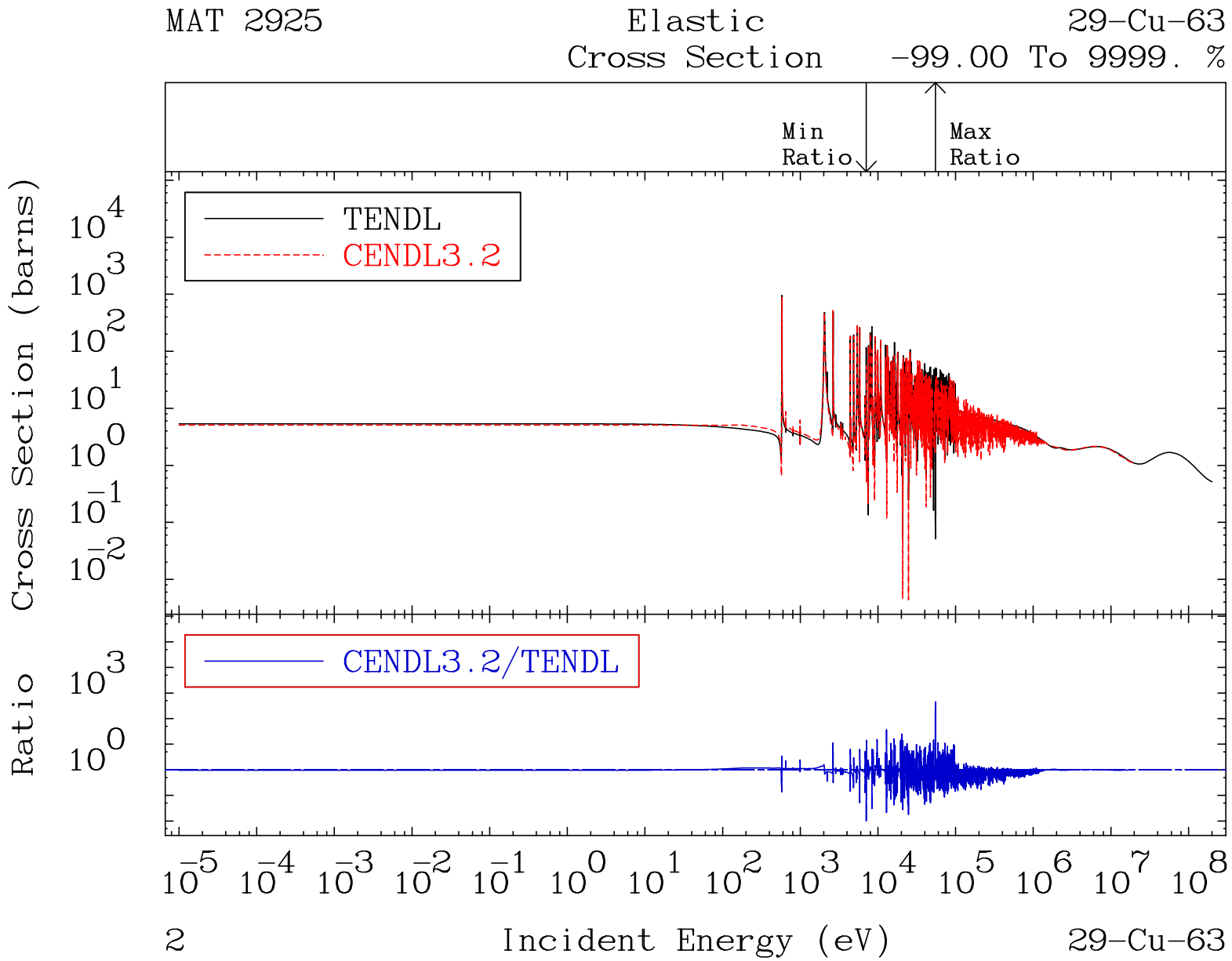
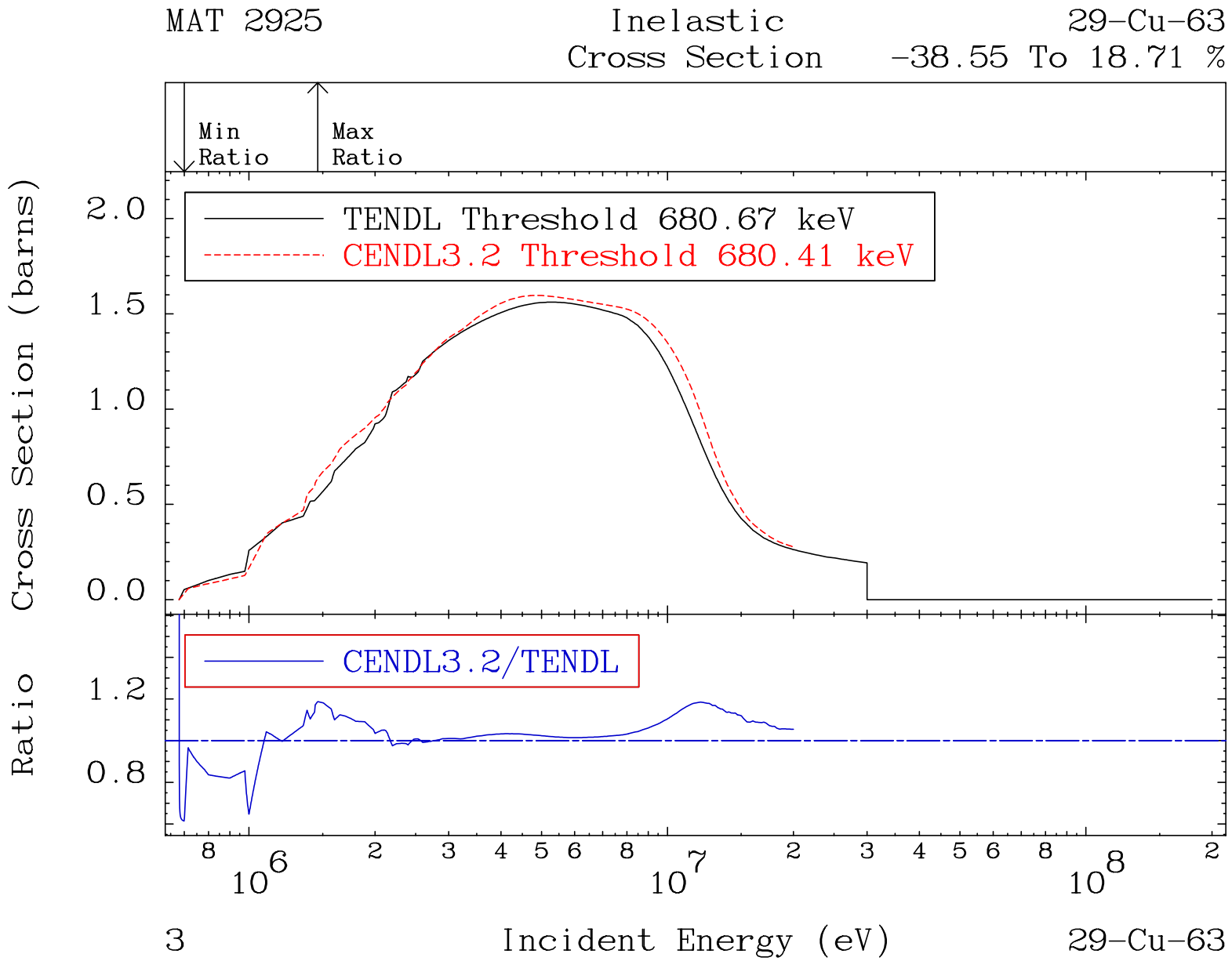
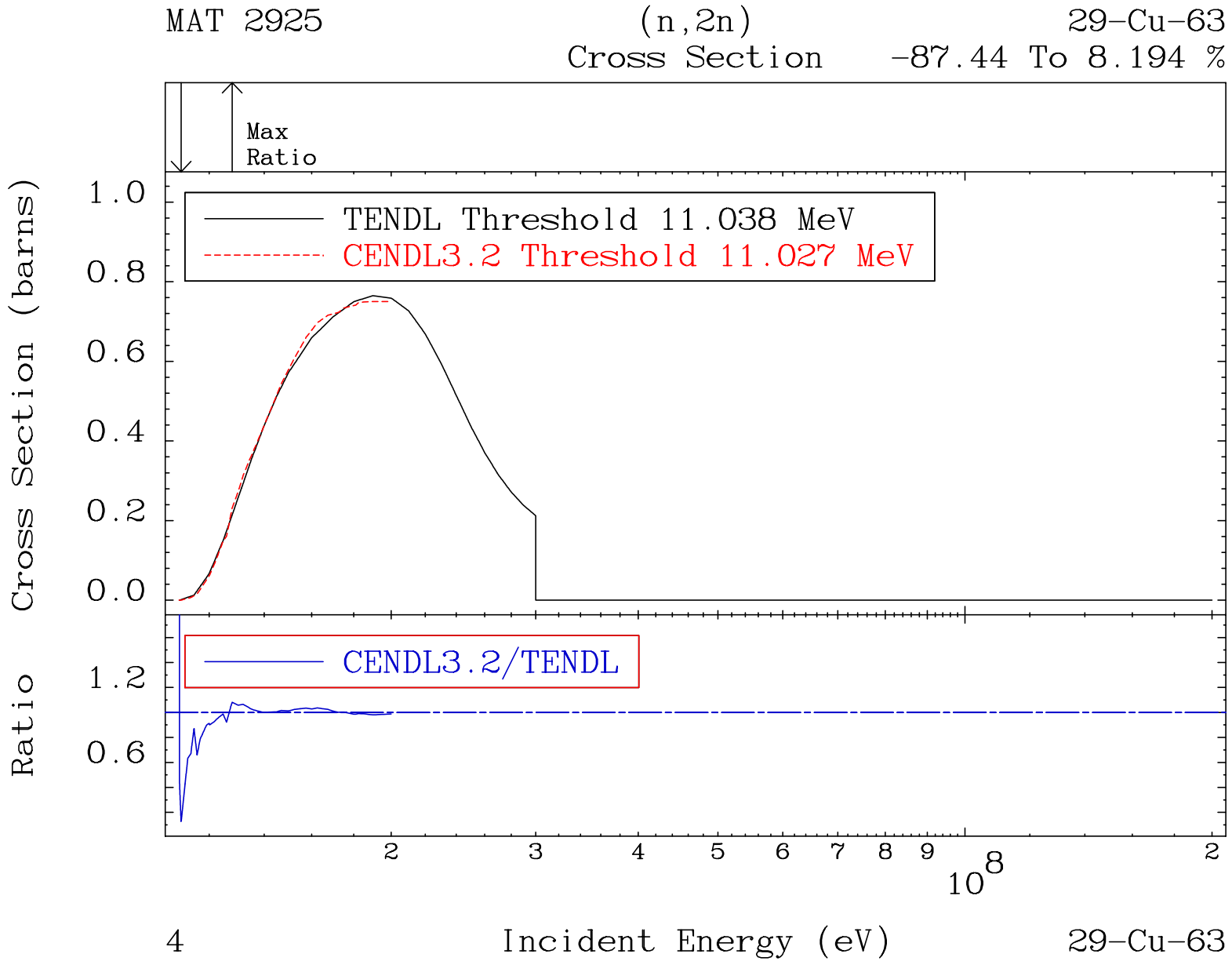
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

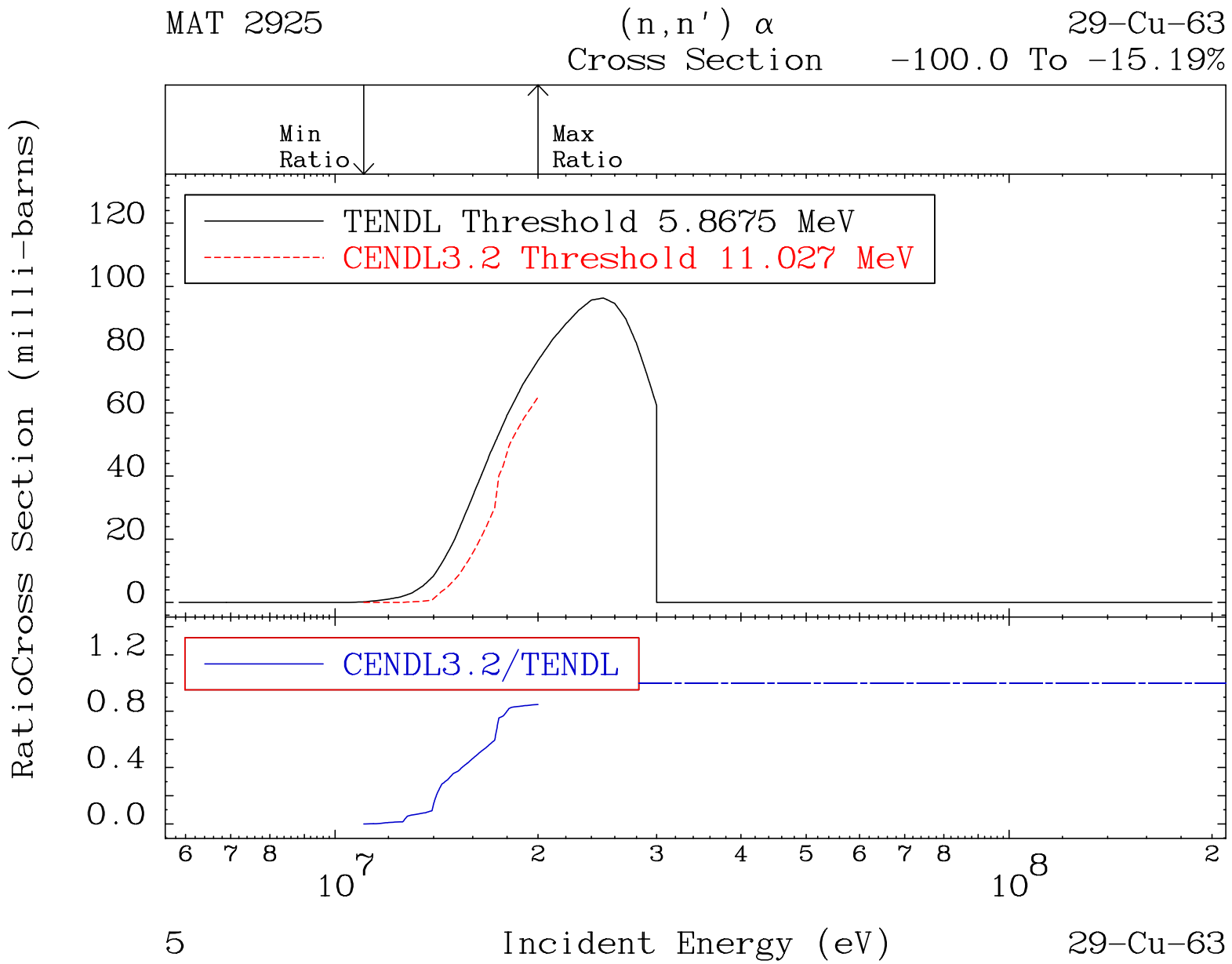
Press Mouse Button to Start

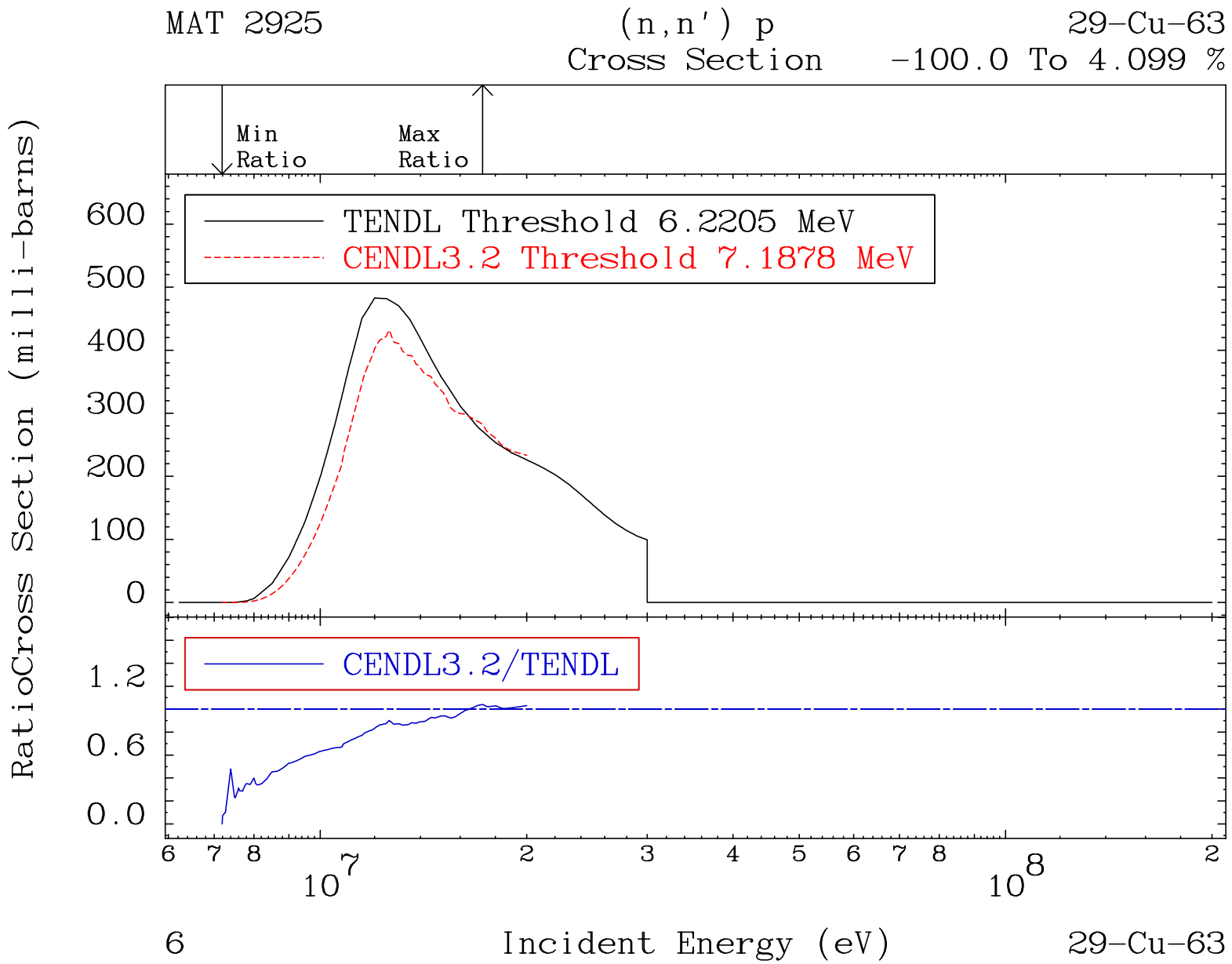

MAT 2925
Total
Cross Section
29-Cu-63
-99.05 To 9999. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
29-Cu-63

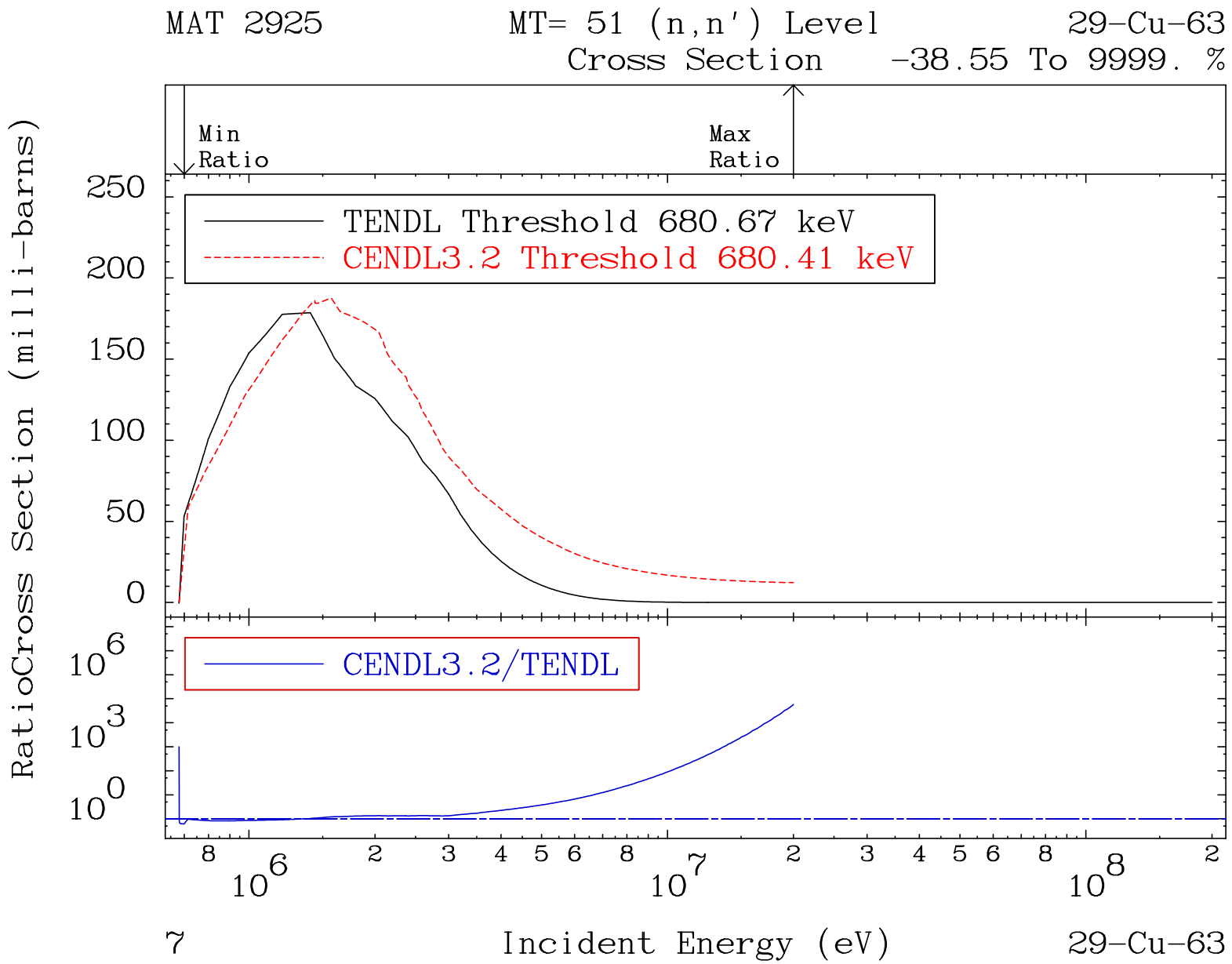

MAT 2925
Elastic
Cross Section
29-Cu-63
-99.00 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
29-Cu-63

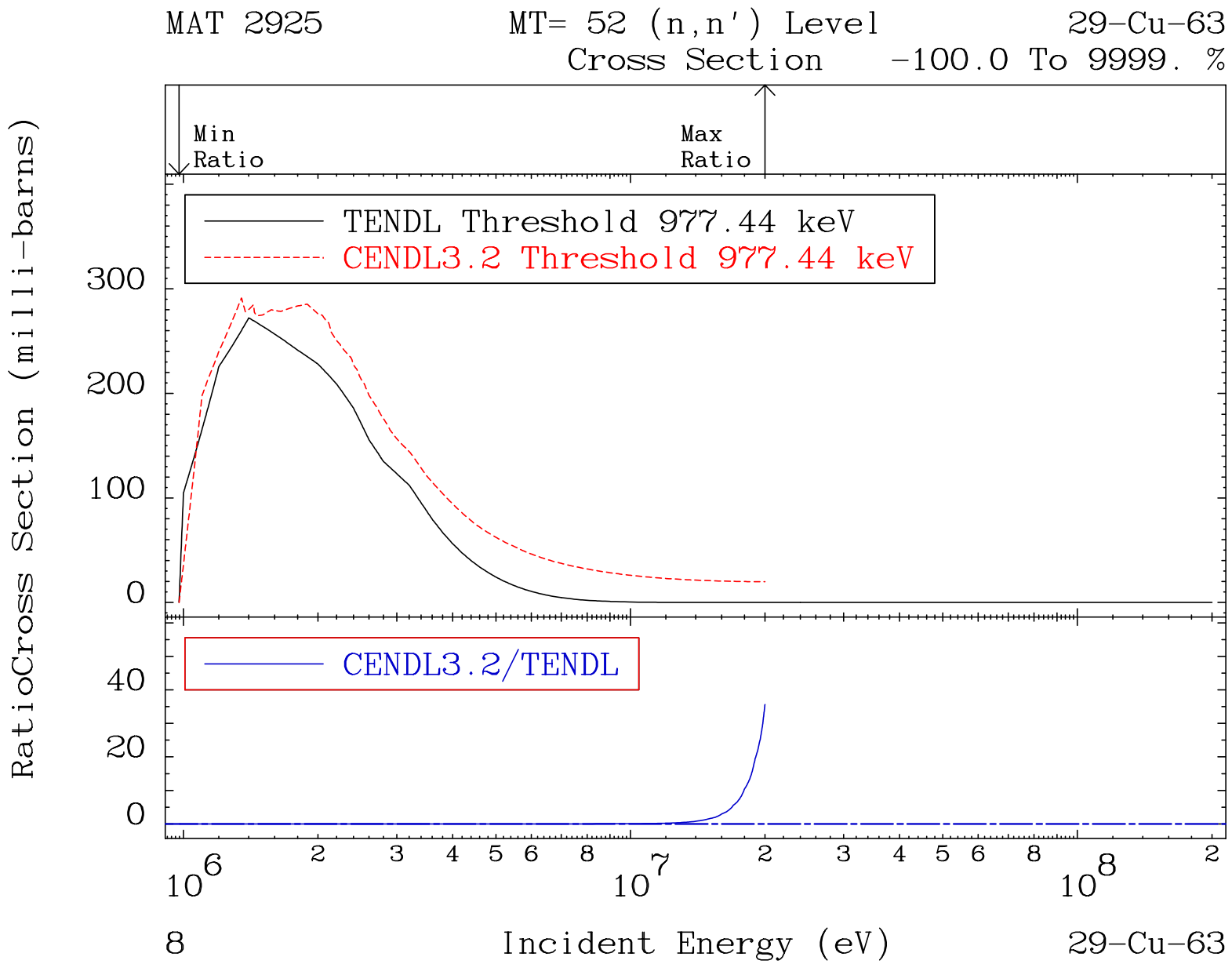

MAT 2925
Inelastic
Cross Section
29-Cu-63
-38.55 To 18.71 %
Min Ratio
Max Ratio
TENDL Threshold 680.67 keV
CENDL3.2 Threshold 680.41 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.8
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
29-Cu-63

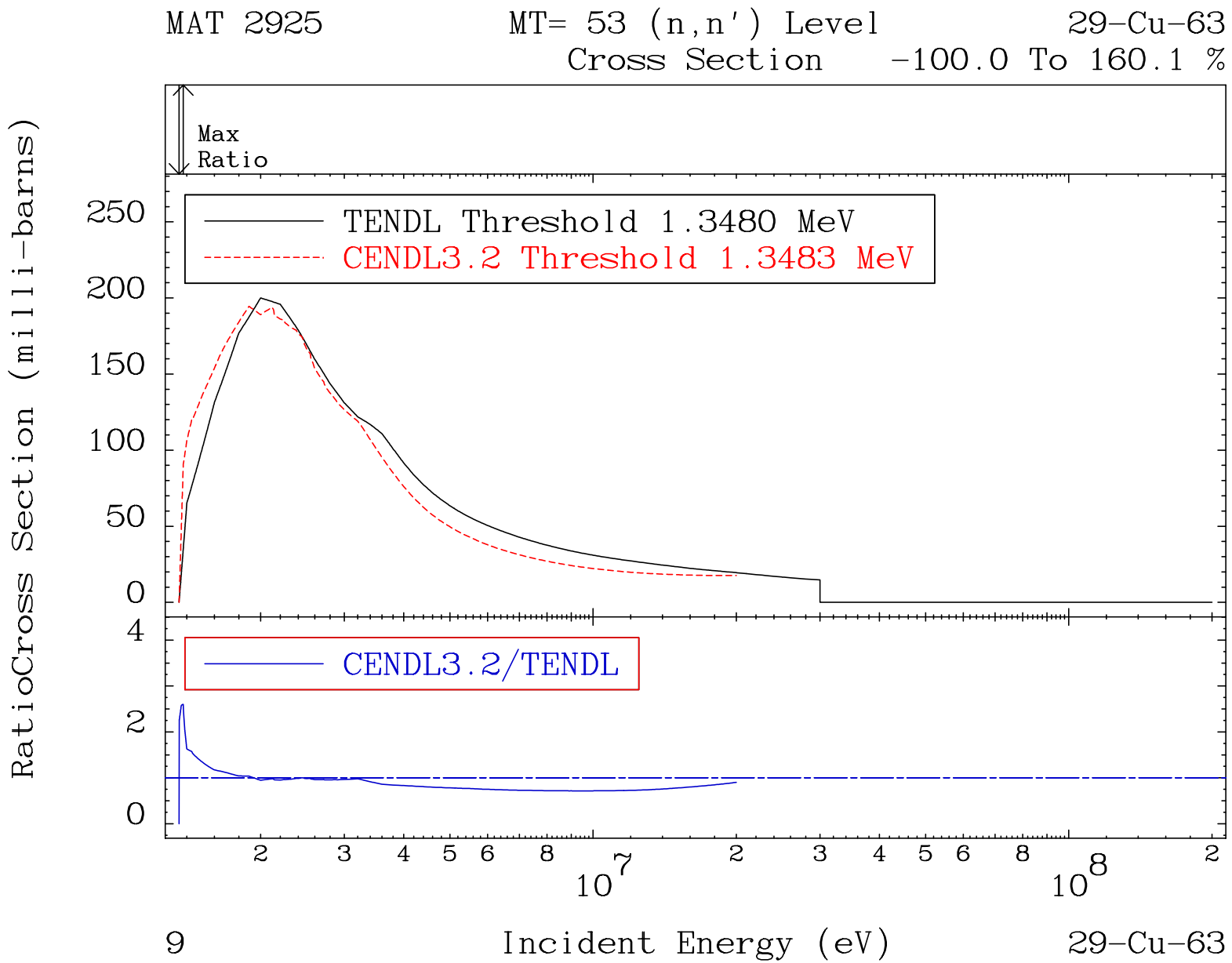

MAT 2925
(n,2n)
Cross Section
29-Cu-63
-87.44 To 8.194 %
Max
Ratio
TENDL Threshold 11.038 MeV
CENDL3.2 Threshold 11.027 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
29-Cu-63

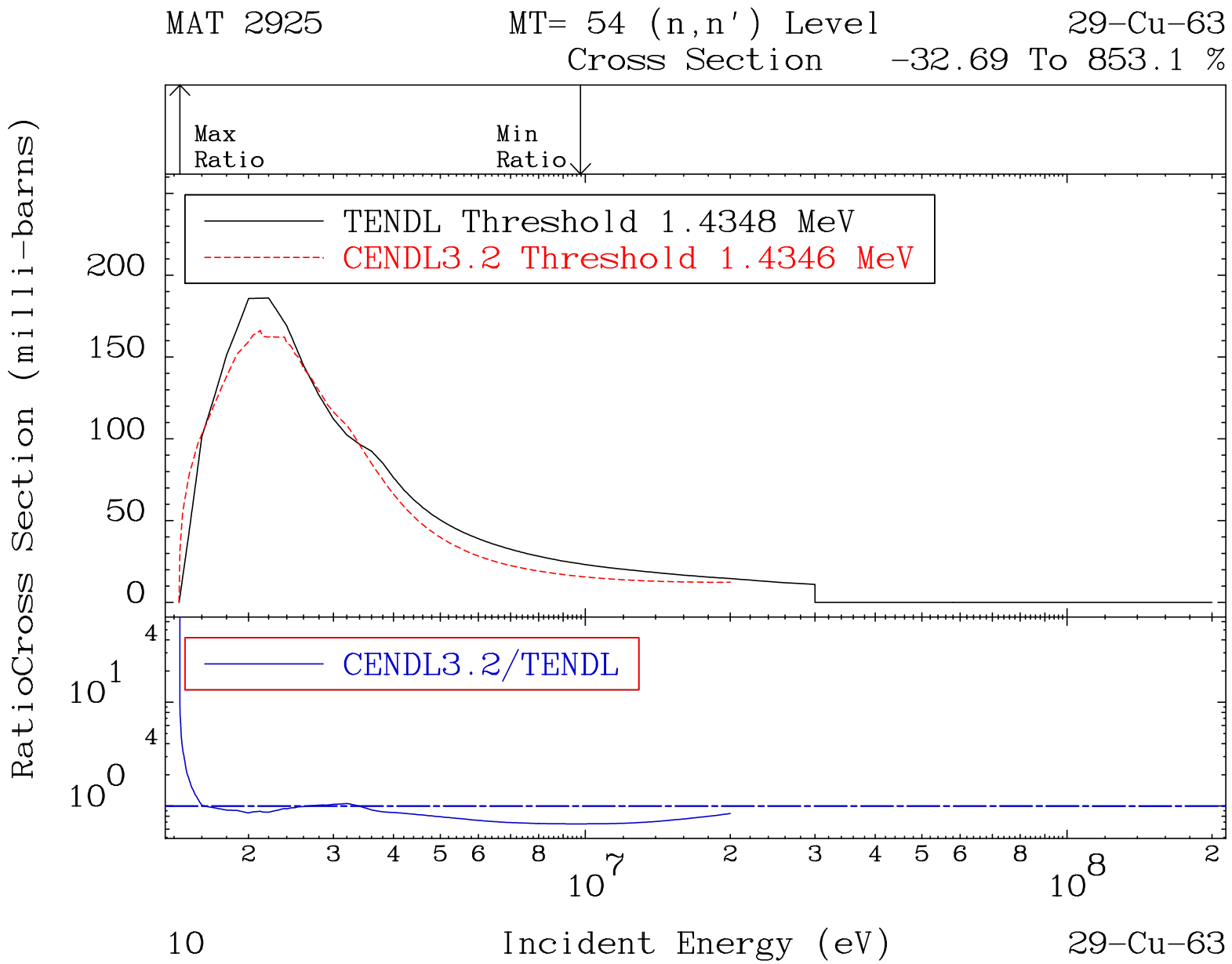

MAT 2925
(n,n') α
Cross Section
29-Cu-63
-100.0 To -15.19%
Min Ratio
Max Ratio
TENDL Threshold 5.8675 MeV
CENDL3.2 Threshold 11.027 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.8
0.4
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
5
Incident Energy (eV)
29-Cu-63

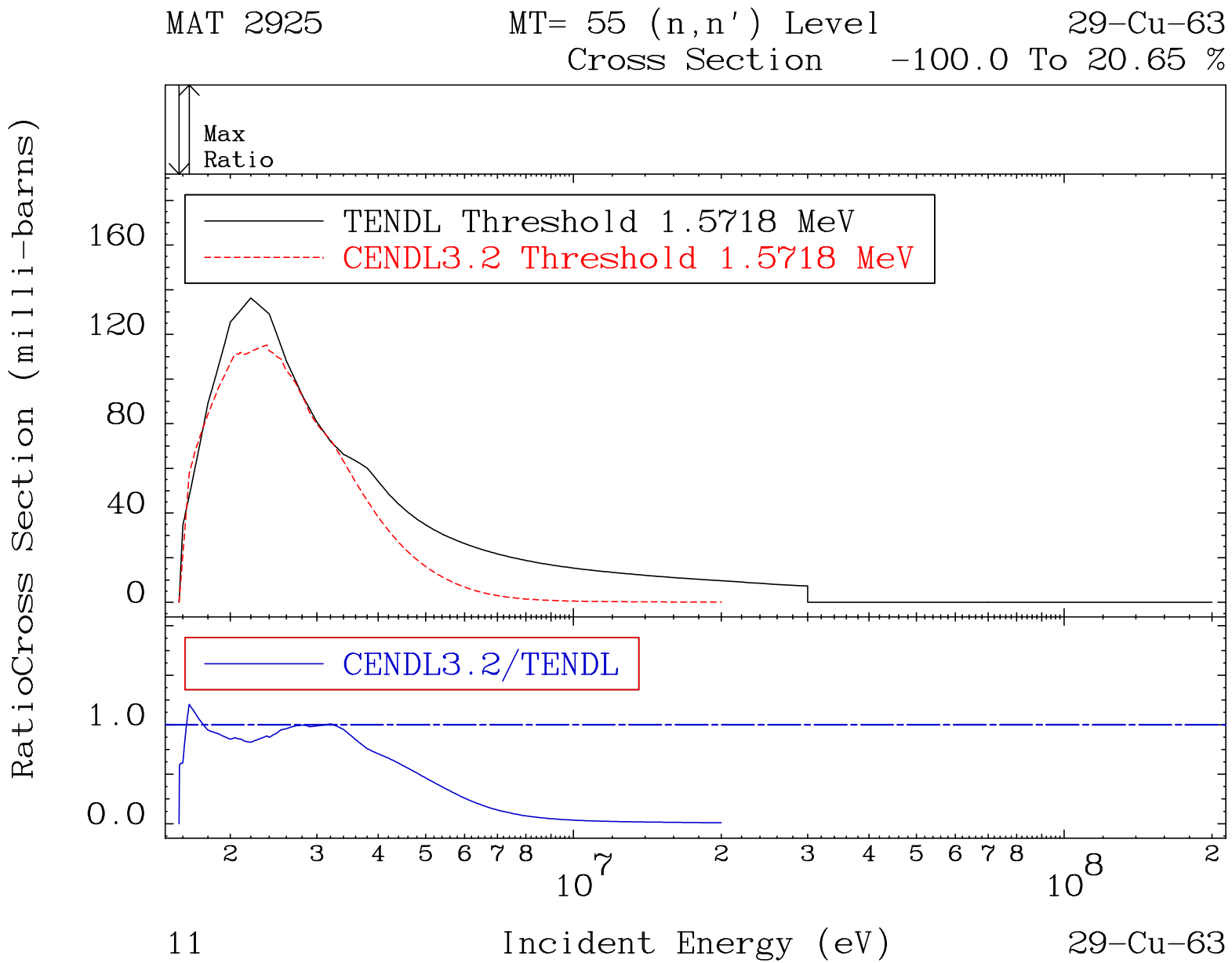

MAT 2925
(n,n') p
Cross Section
29-Cu-63
-100.0 To 4.099 %
Min Ratio
Max Ratio
TENDL Threshold 6.2205 MeV
CENDL3.2 Threshold 7.1878 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
1.2
0.6
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
6
Incident Energy (eV)
29-Cu-63

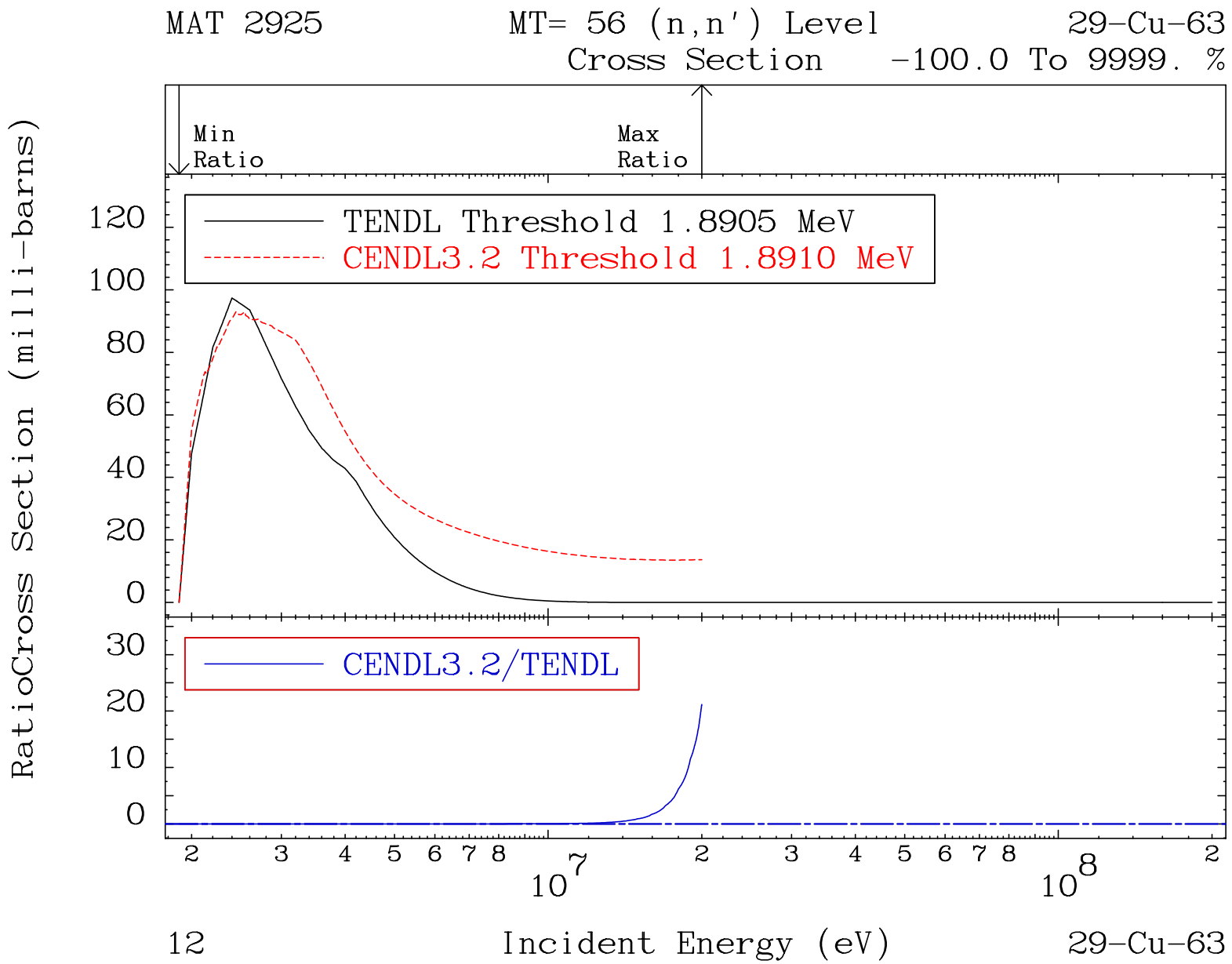

MAT 2925
MT= 51 (n,n') Level
29-Cu-63
Cross Section -38.55 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 680.67 keV
CENDL3.2 Threshold 680.41 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29-Cu-63

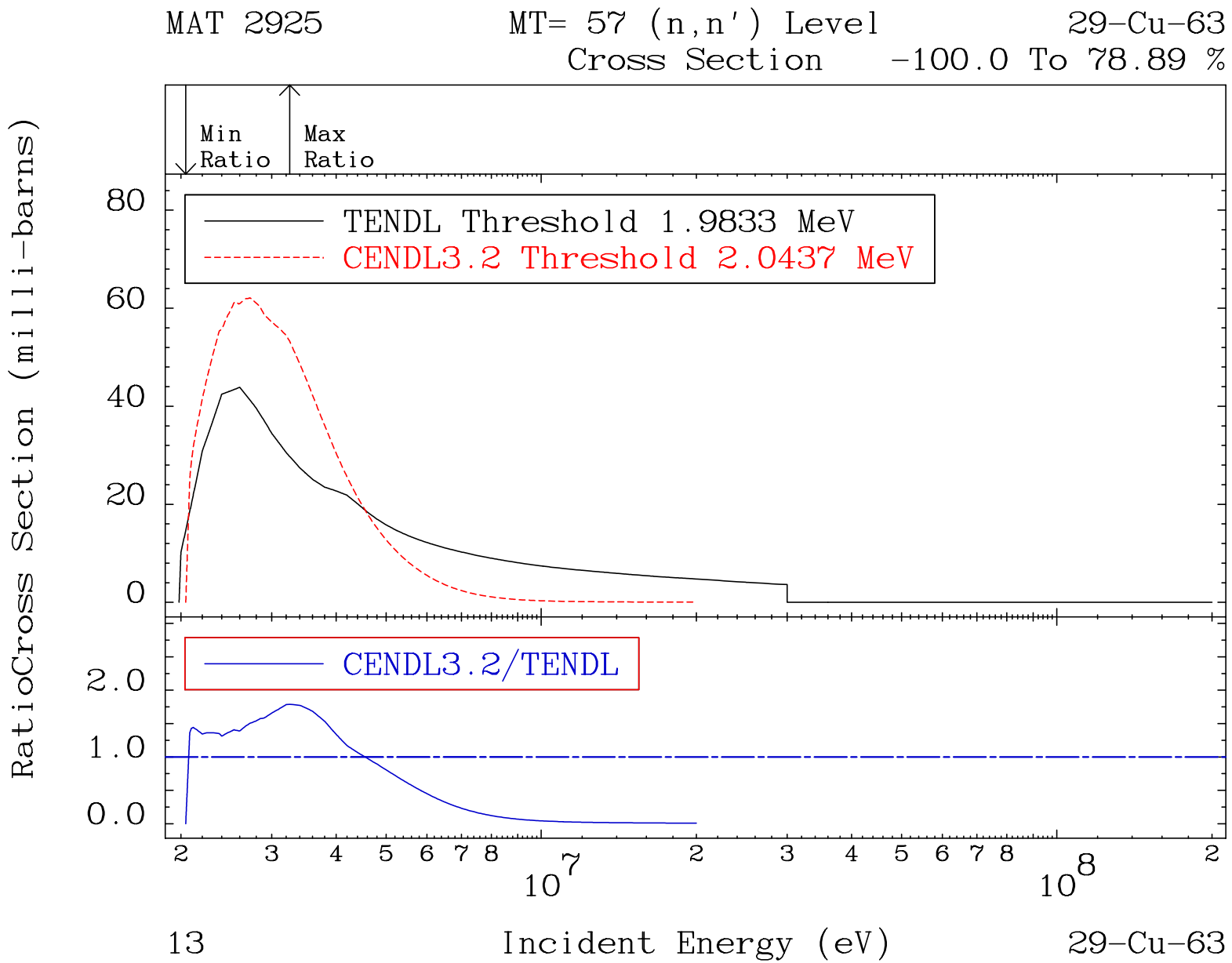

MAT 2925
MT= 52 (n,n') Level
29-Cu-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 977.44 keV
CENDL3.2 Threshold 977.44 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
200
100
0
40
20
0
10^6
10^7
10^8
Incident Energy (eV)
29-Cu-63

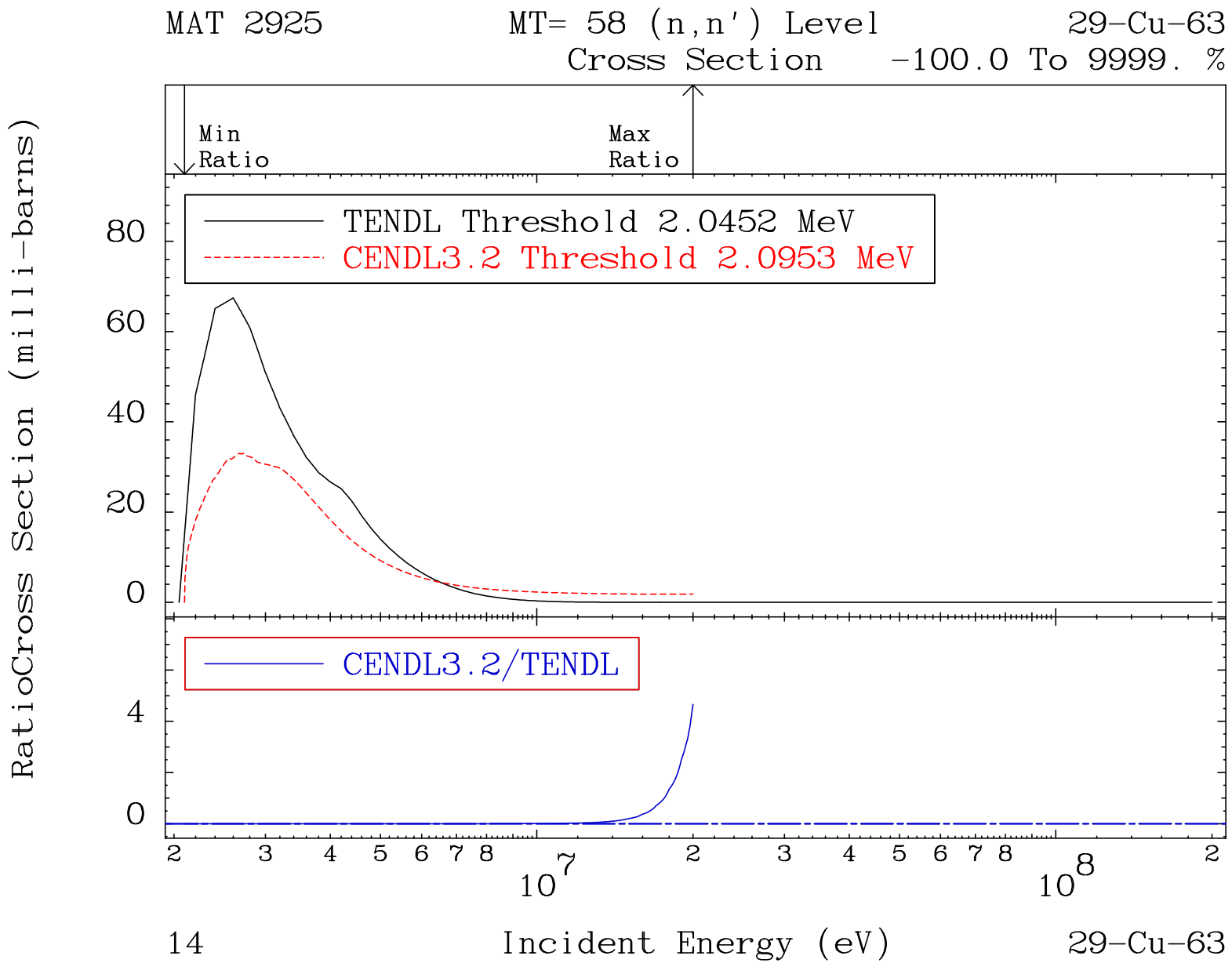

MAT 2925
MT= 53 (n,n') Level
29-Cu-63
Cross Section -100.0 To 160.1 %
Max
Ratio
TENDL Threshold 1.3480 MeV
CENDL3.2 Threshold 1.3483 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
9
29-Cu-63

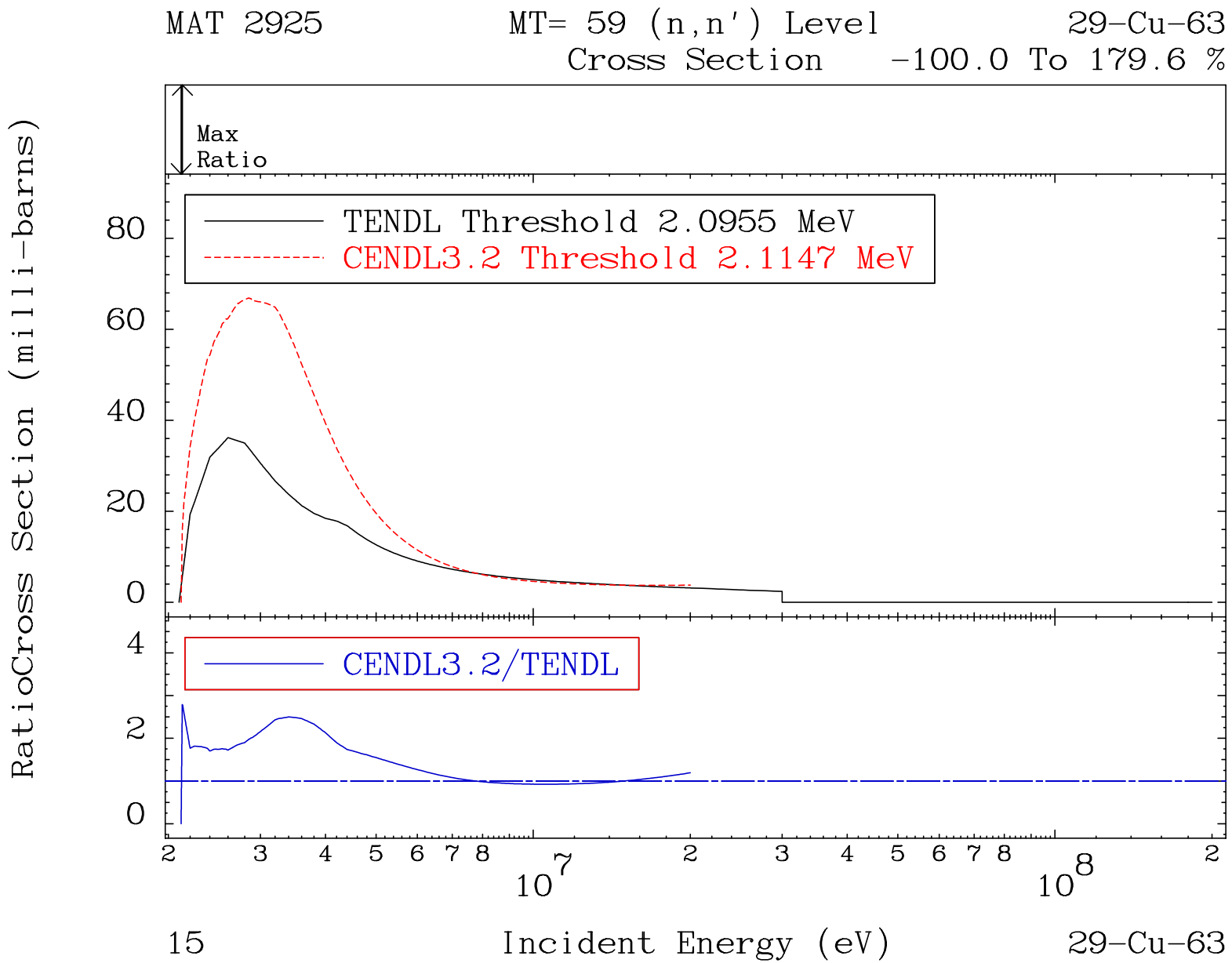

MAT 2925
MT= 54 (n,n') Level
29-Cu-63
Cross Section -32.69 To 853.1 %
Max Ratio
Min Ratio
TENDL Threshold 1.4348 MeV
CENDL3.2 Threshold 1.4346 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
10^1
4
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
29-Cu-63

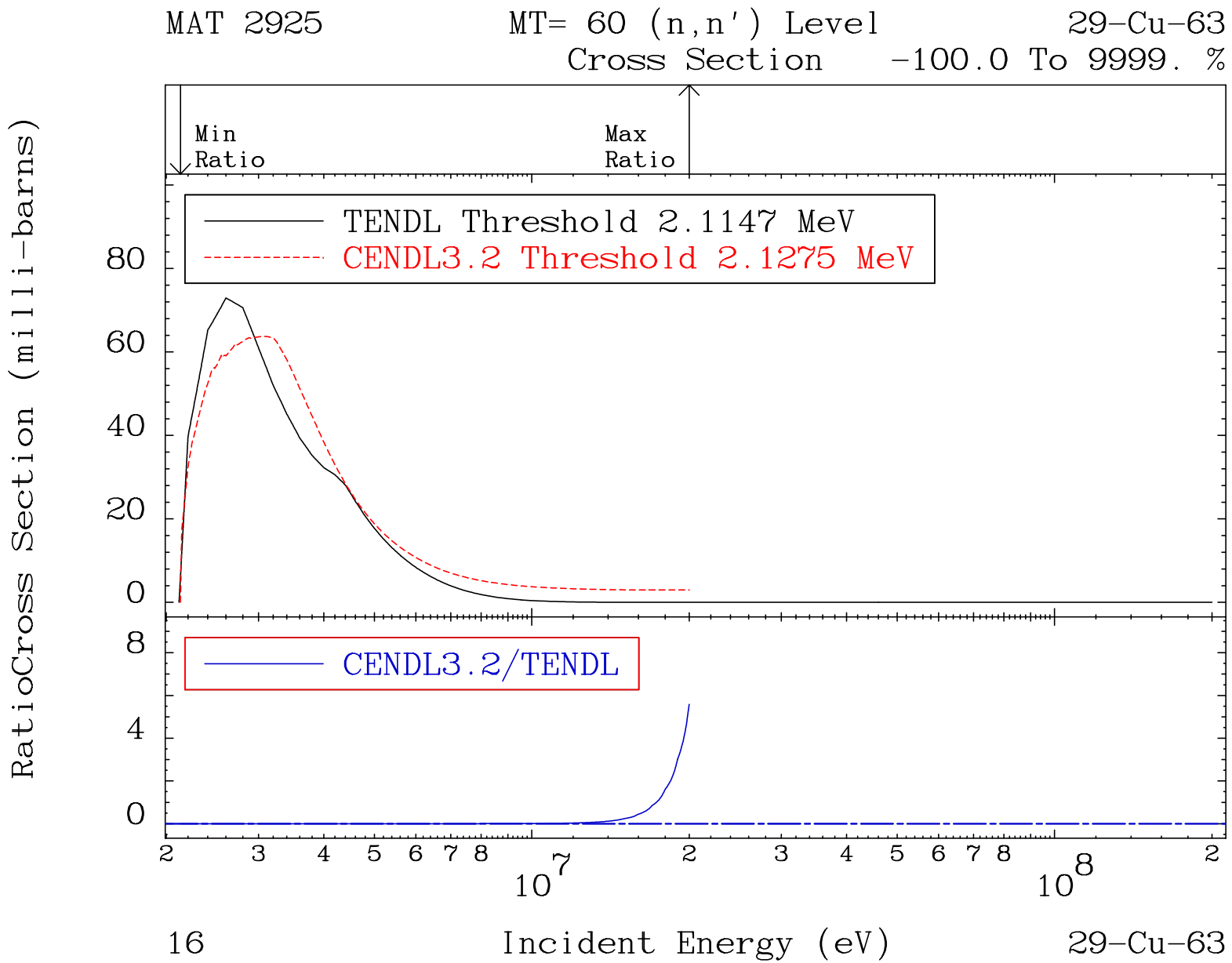

MAT 2925
MT= 55 (n,n') Level
29-Cu-63
Cross Section
-100.0 To 20.65 %
Max
Ratio
TENDL Threshold 1.5718 MeV
CENDL3.2 Threshold 1.5718 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
29-Cu-63

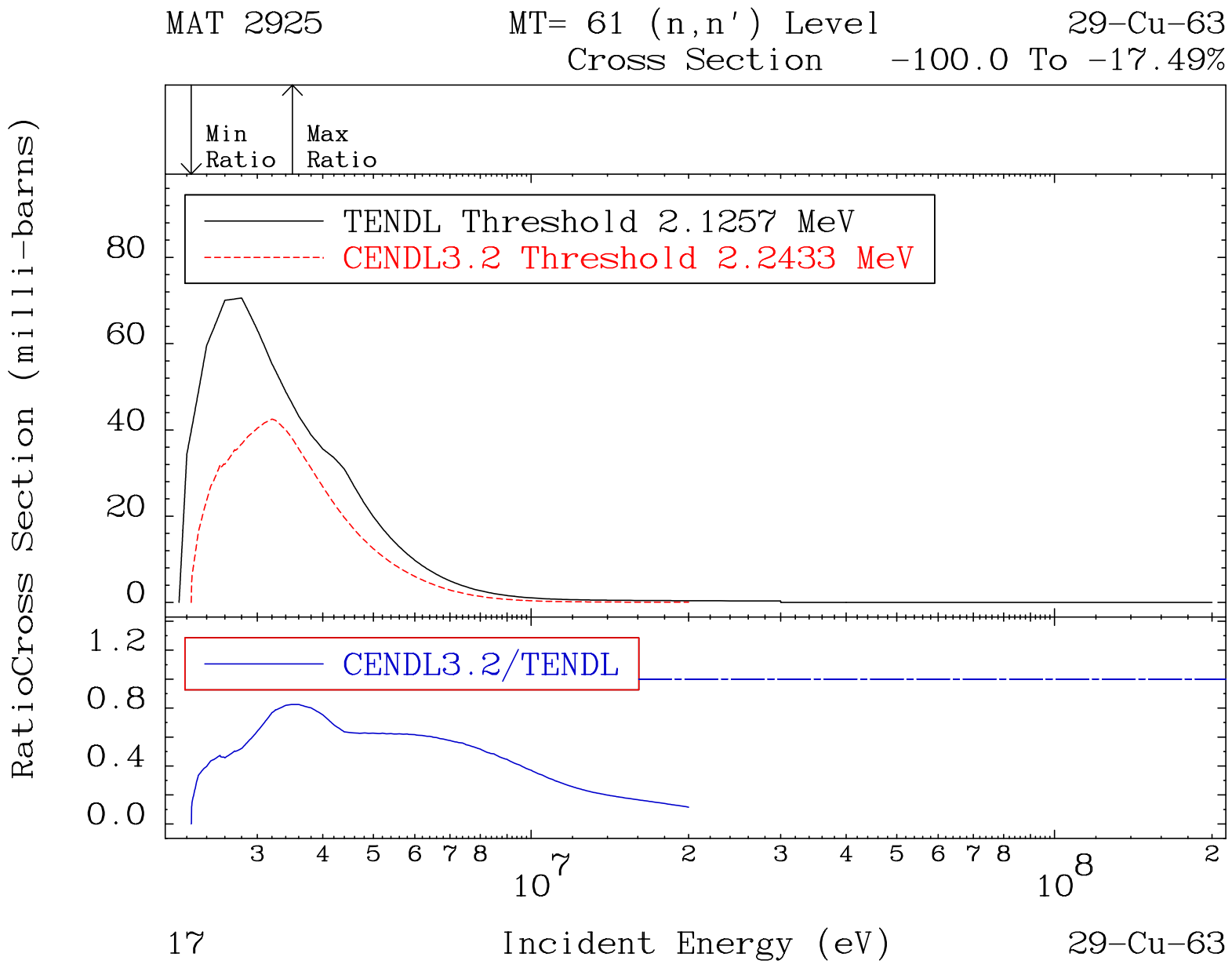

MAT 2925
MT= 56 (n,n') Level
29-Cu-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8905 MeV
CENDL3.2 Threshold 1.8910 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
30
20
10
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
29-Cu-63

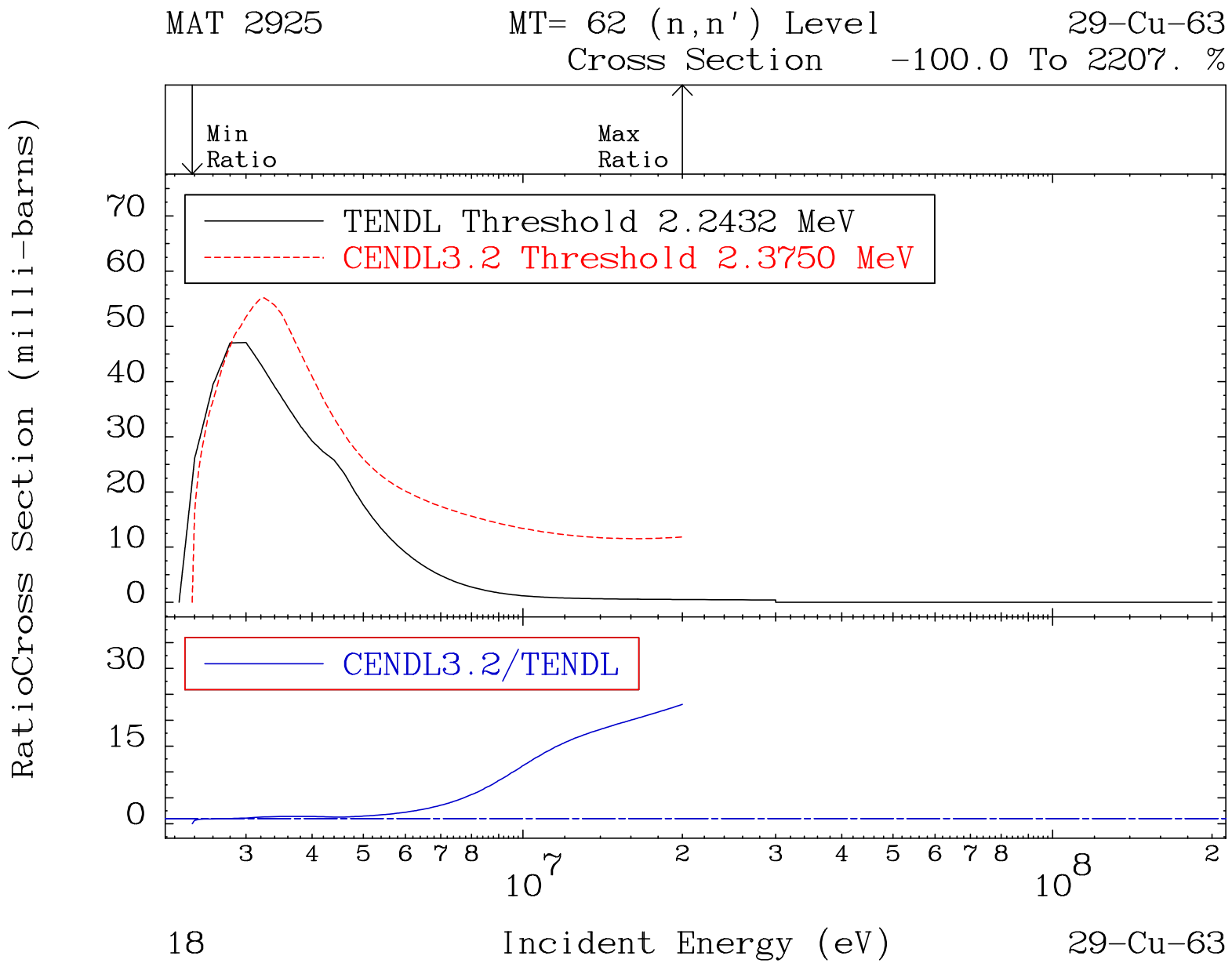

MAT 2925
MT= 57 (n,n') Level
29-Cu-63
Cross Section
-100.0 To 78.89 %
Min Ratio
Max Ratio
TENDL Threshold 1.9833 MeV
CENDL3.2 Threshold 2.0437 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
29-Cu-63

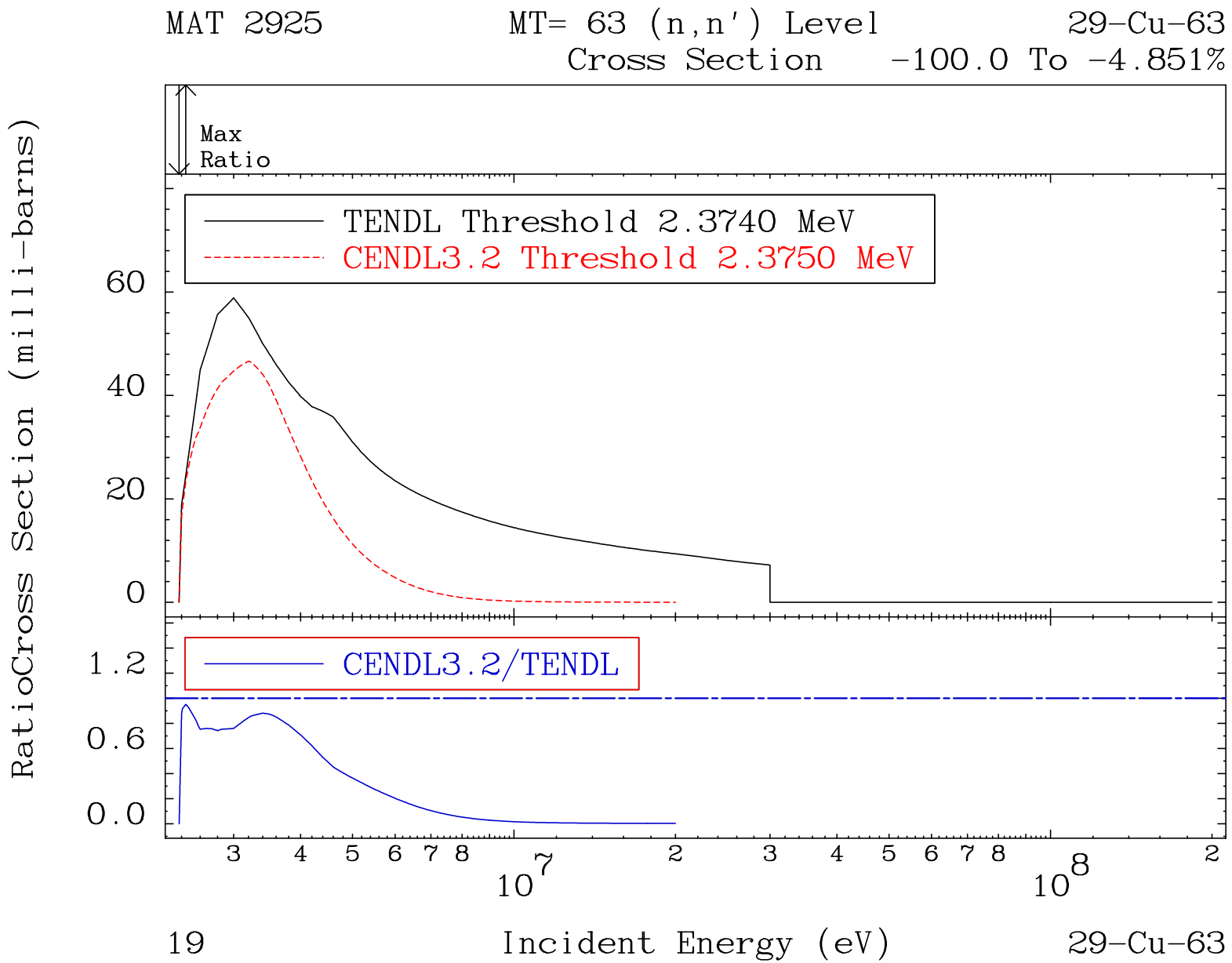

MAT 2925
MT= 58 (n,n') Level
29-Cu-63
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0452 MeV
CENDL3.2 Threshold 2.0953 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
29-Cu-63

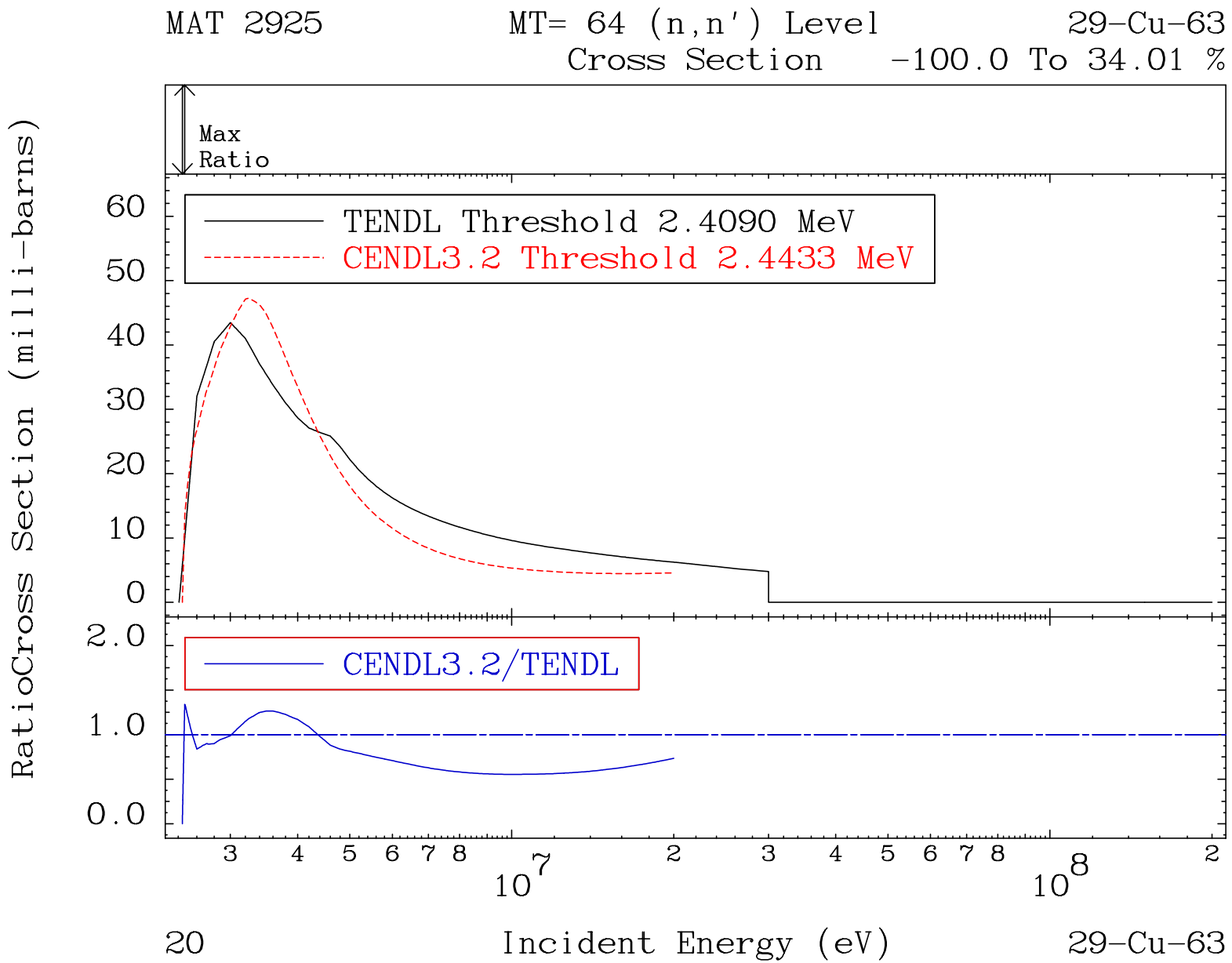

MAT 2925
MT= 59 (n,n') Level
29-Cu-63
Cross Section -100.0 To 179.6 %
Max
Ratio
TENDL Threshold 2.0955 MeV
CENDL3.2 Threshold 2.1147 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
29-Cu-63

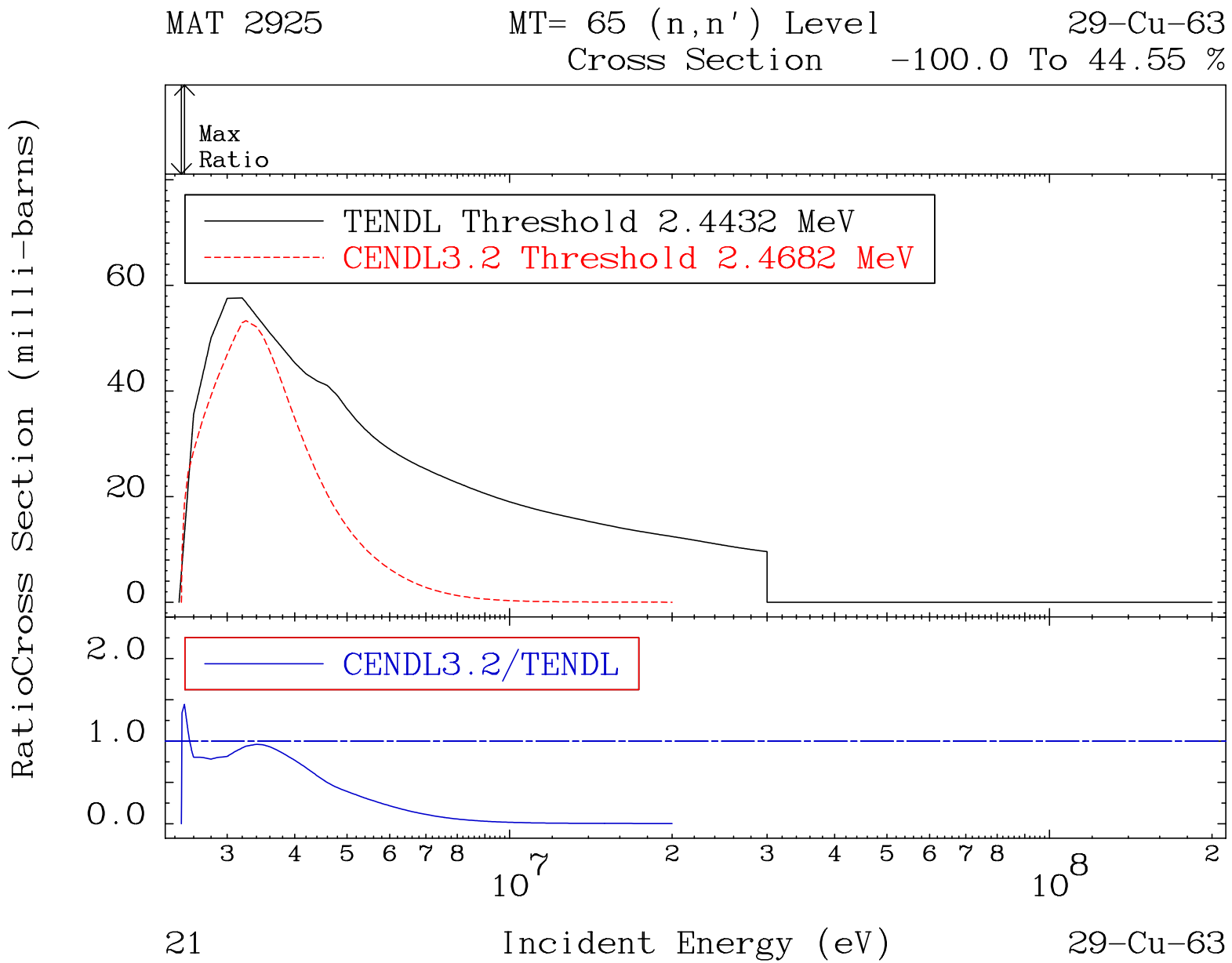

MAT 2925
MT= 60 (n,n') Level
29-Cu-63
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1147 MeV
CENDL3.2 Threshold 2.1275 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
29-Cu-63

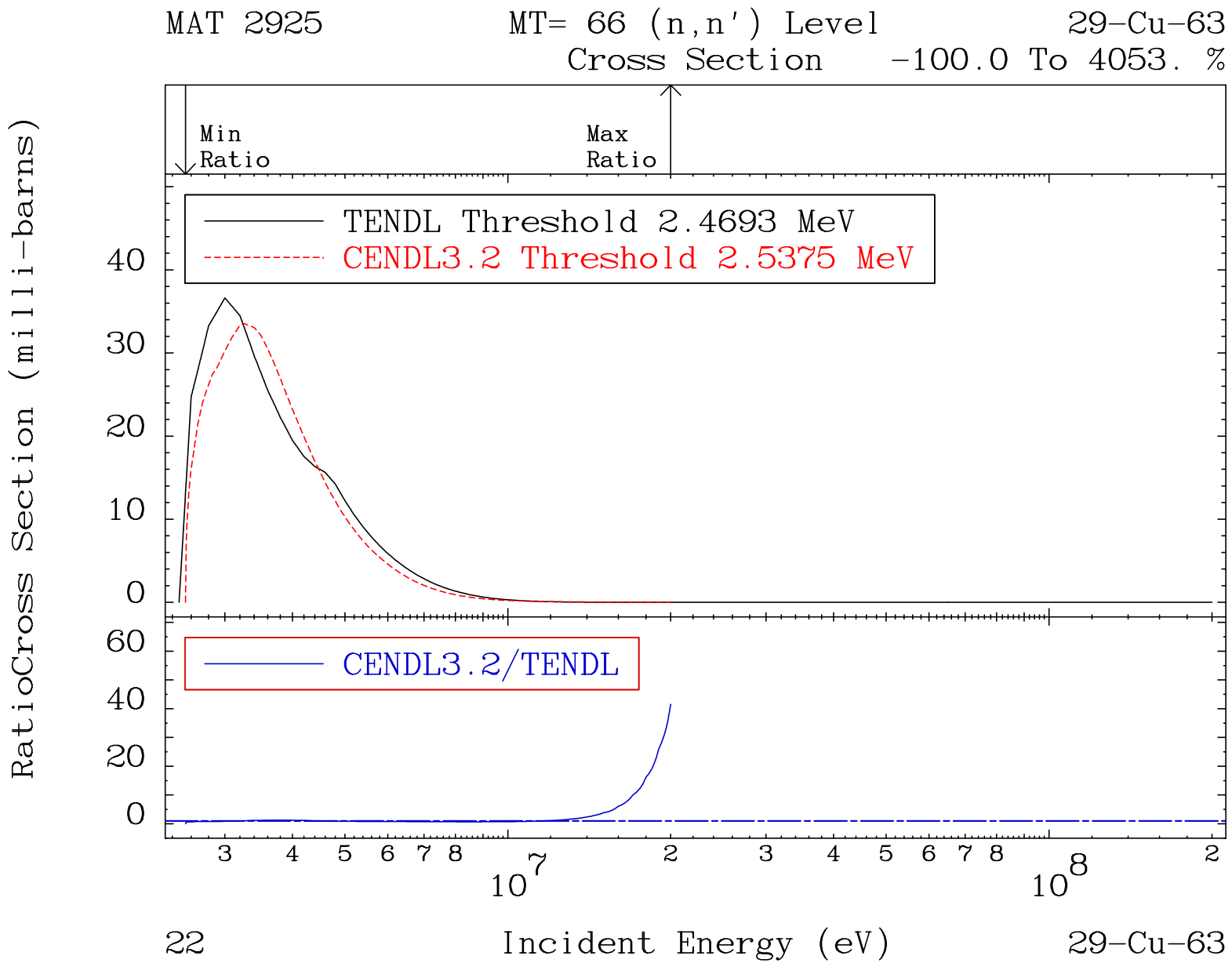

MAT 2925
MT= 61 (n,n') Level
29-Cu-63
Cross Section -100.0 To -17.49%
Min Ratio
Max Ratio
TENDL Threshold 2.1257 MeV
CENDL3.2 Threshold 2.2433 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
29-Cu-63

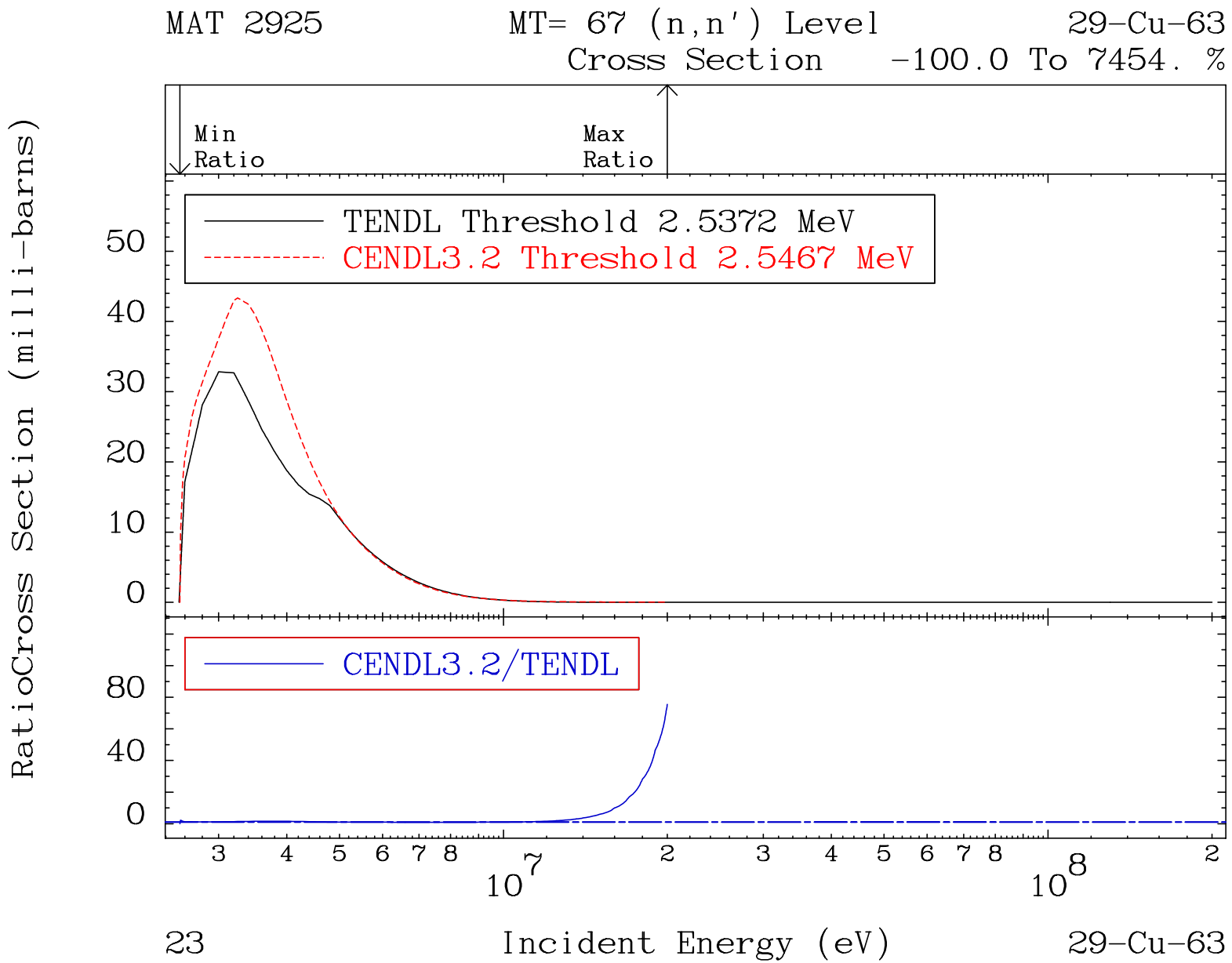

MAT 2925
MT= 62 (n,n') Level
29-Cu-63
Cross Section -100.0 To 2207. %
Min Ratio
Max Ratio
TENDL Threshold 2.2432 MeV
CENDL3.2 Threshold 2.3750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
30
15
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
29-Cu-63

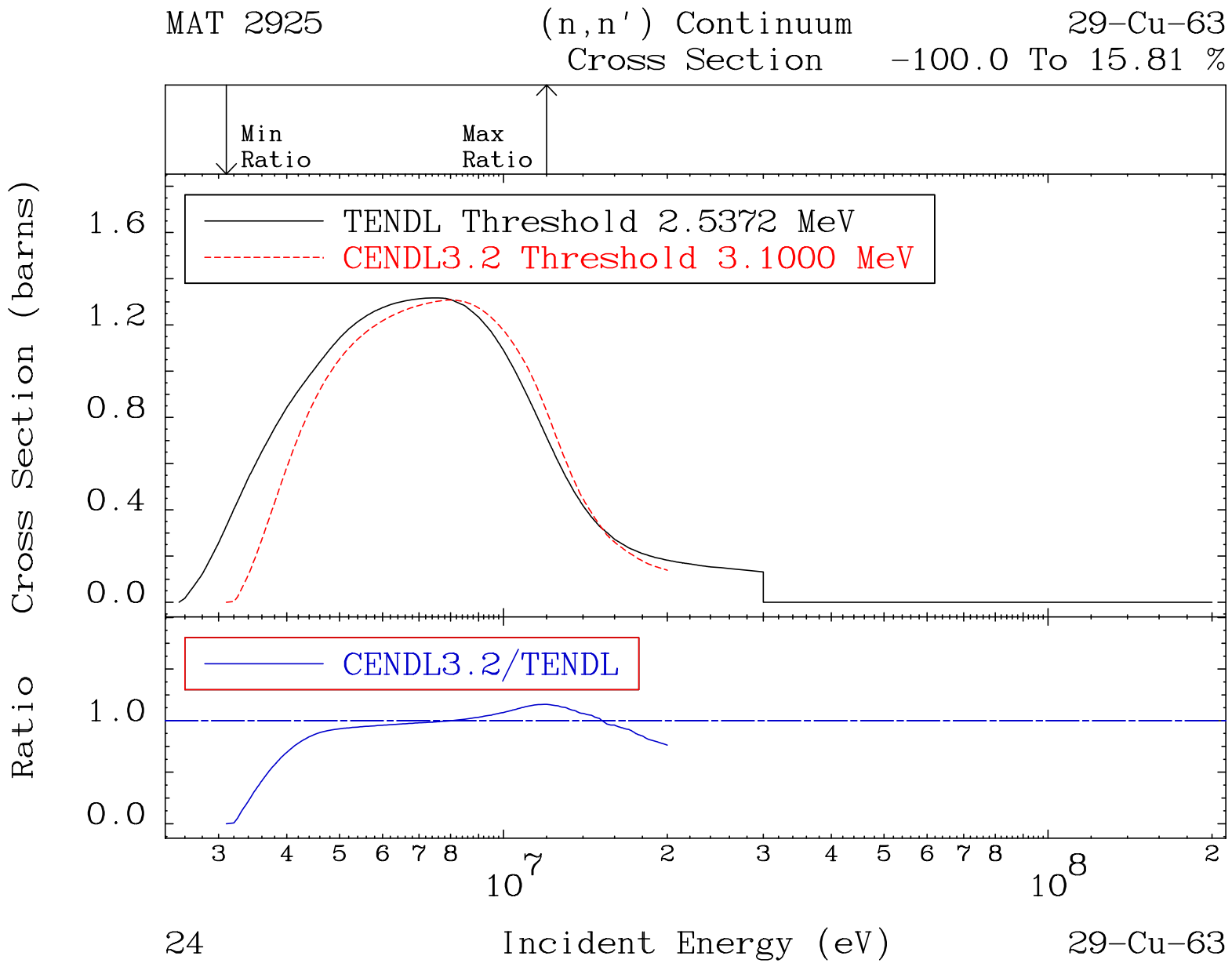

MAT 2925
MT= 63 (n,n') Level
29-Cu-63
Cross Section
-100.0 To -4.851%
Max
Ratio
TENDL Threshold 2.3740 MeV
CENDL3.2 Threshold 2.3750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
29-Cu-63

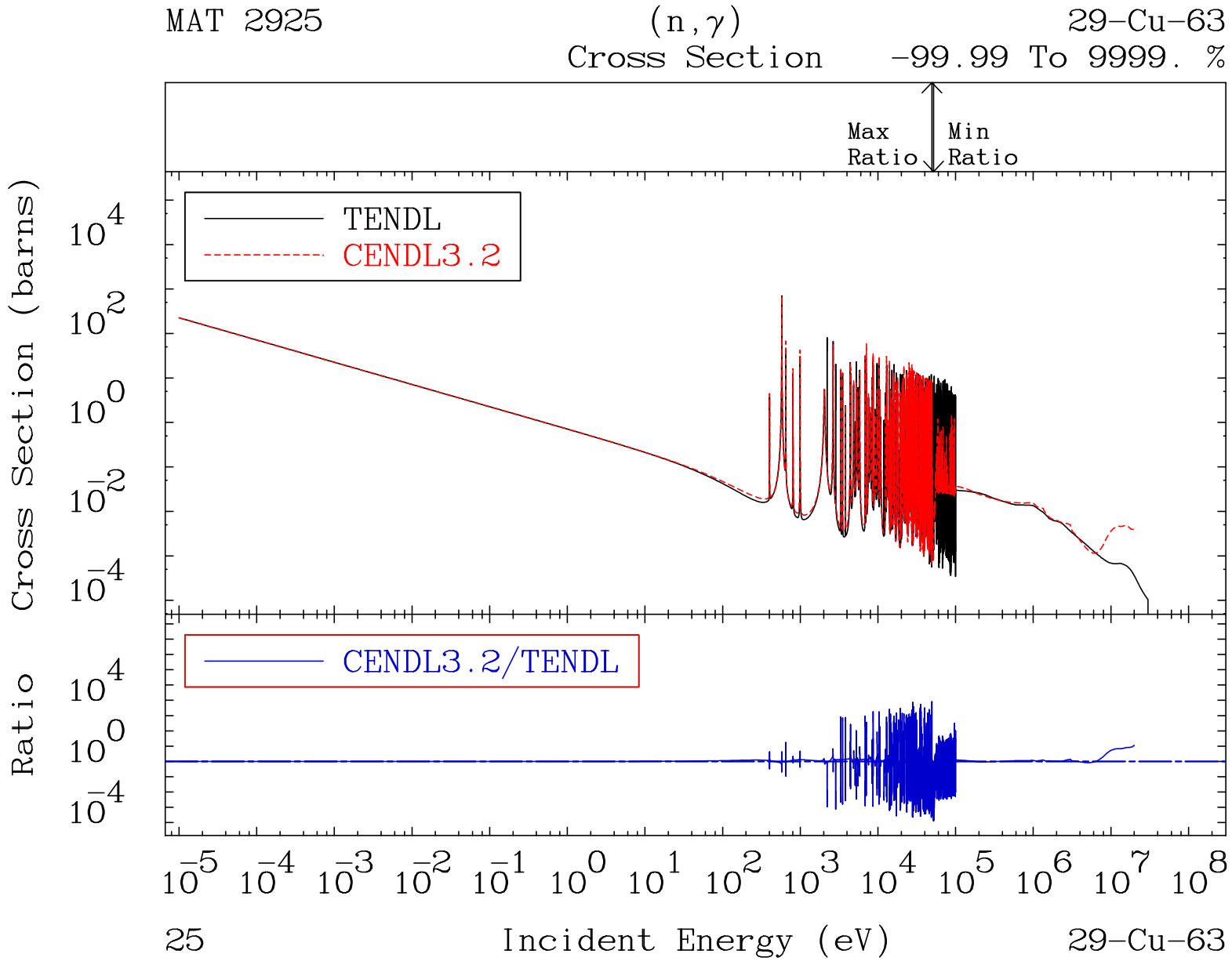

MAT 2925
MT= 64 (n,n') Level
29-Cu-63
Cross Section -100.0 To 34.01 %
Max
Ratio
TENDL Threshold 2.4090 MeV
CENDL3.2 Threshold 2.4433 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
29-Cu-63

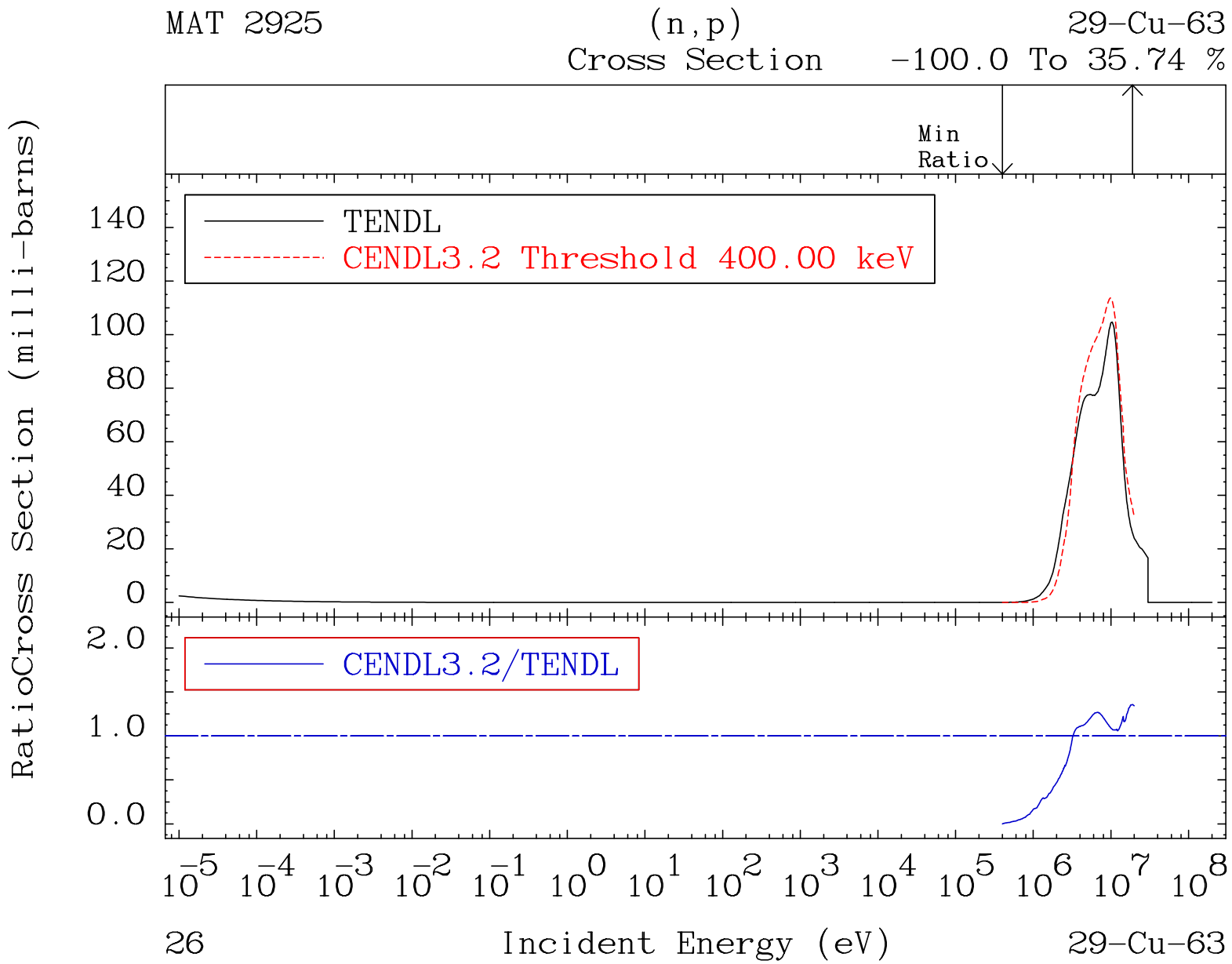

MAT 2925
MT= 65 (n,n') Level
29-Cu-63
Cross Section
-100.0 To 44.55 %
Max
Ratio
TENDL Threshold 2.4432 MeV
CENDL3.2 Threshold 2.4682 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
29-Cu-63

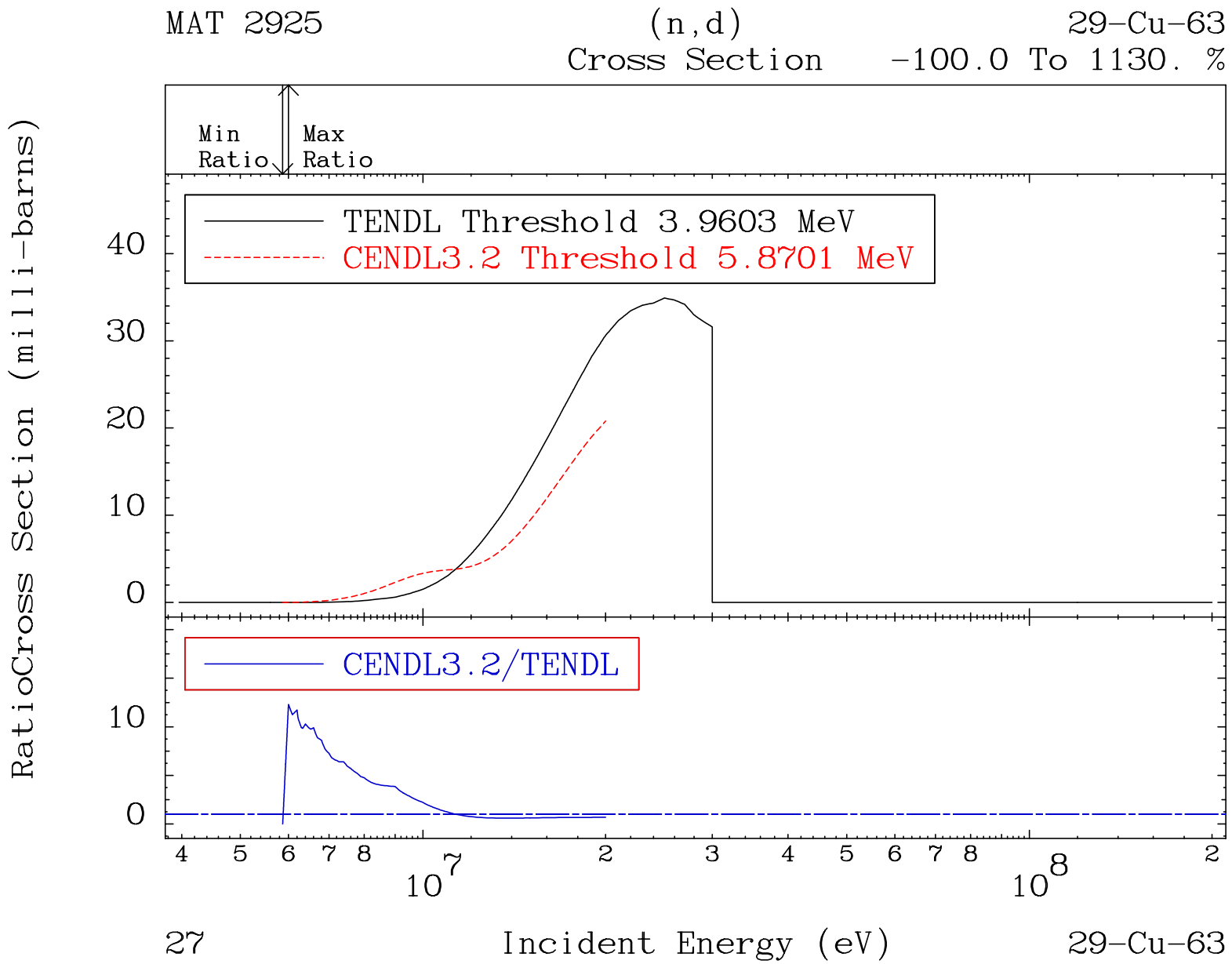

MAT 2925
MT= 66 (n,n') Level
29-Cu-63
Cross Section -100.0 To 4053. %
Min Ratio
Max Ratio
TENDL Threshold 2.4693 MeV
CENDL3.2 Threshold 2.5375 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
60
40
20
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
29-Cu-63

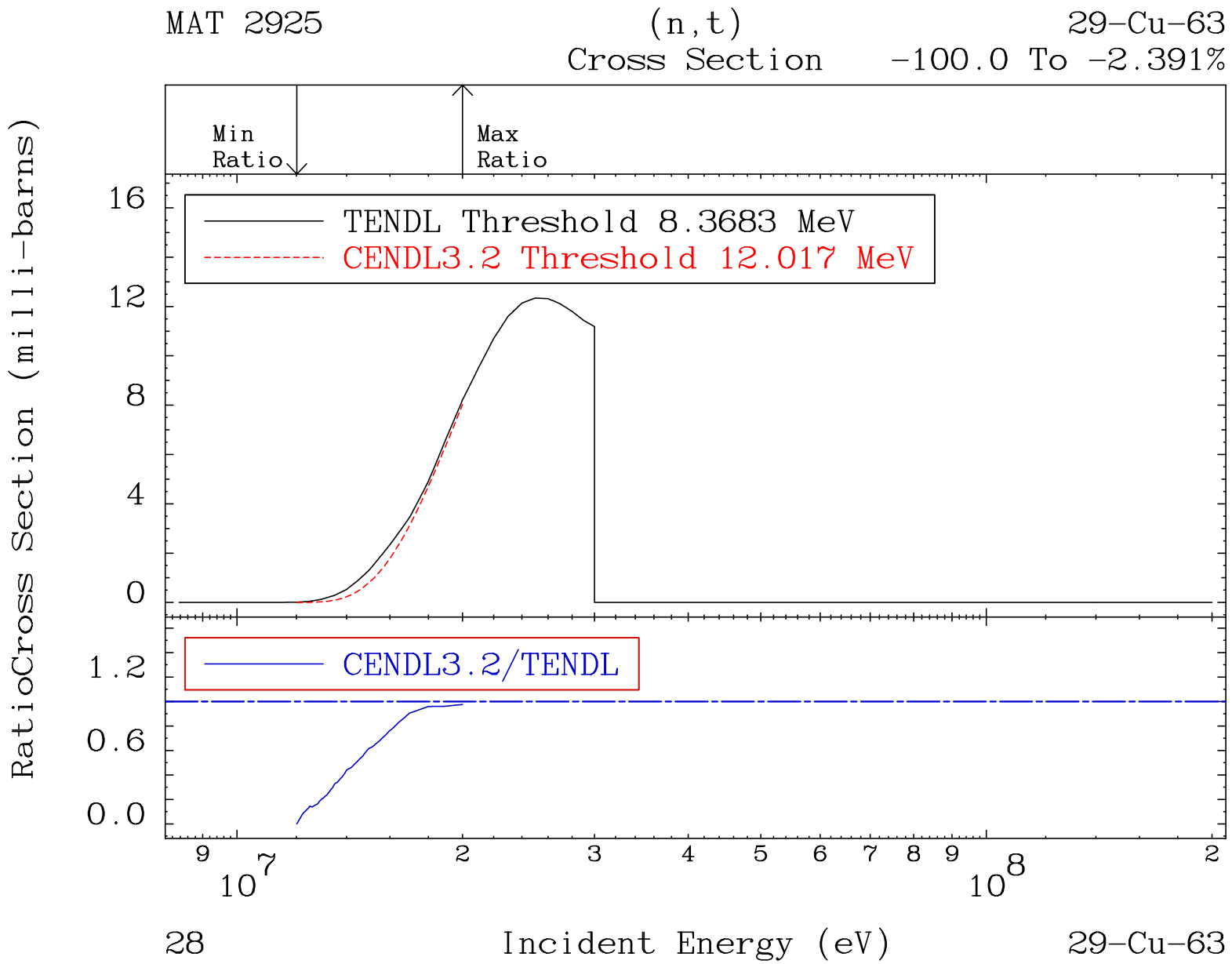

MAT 2925
MT= 67 (n,n') Level
29-Cu-63
Cross Section -100.0 To 7454. %
Min Ratio
Max Ratio
TENDL Threshold 2.5372 MeV
CENDL3.2 Threshold 2.5467 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
29-Cu-63

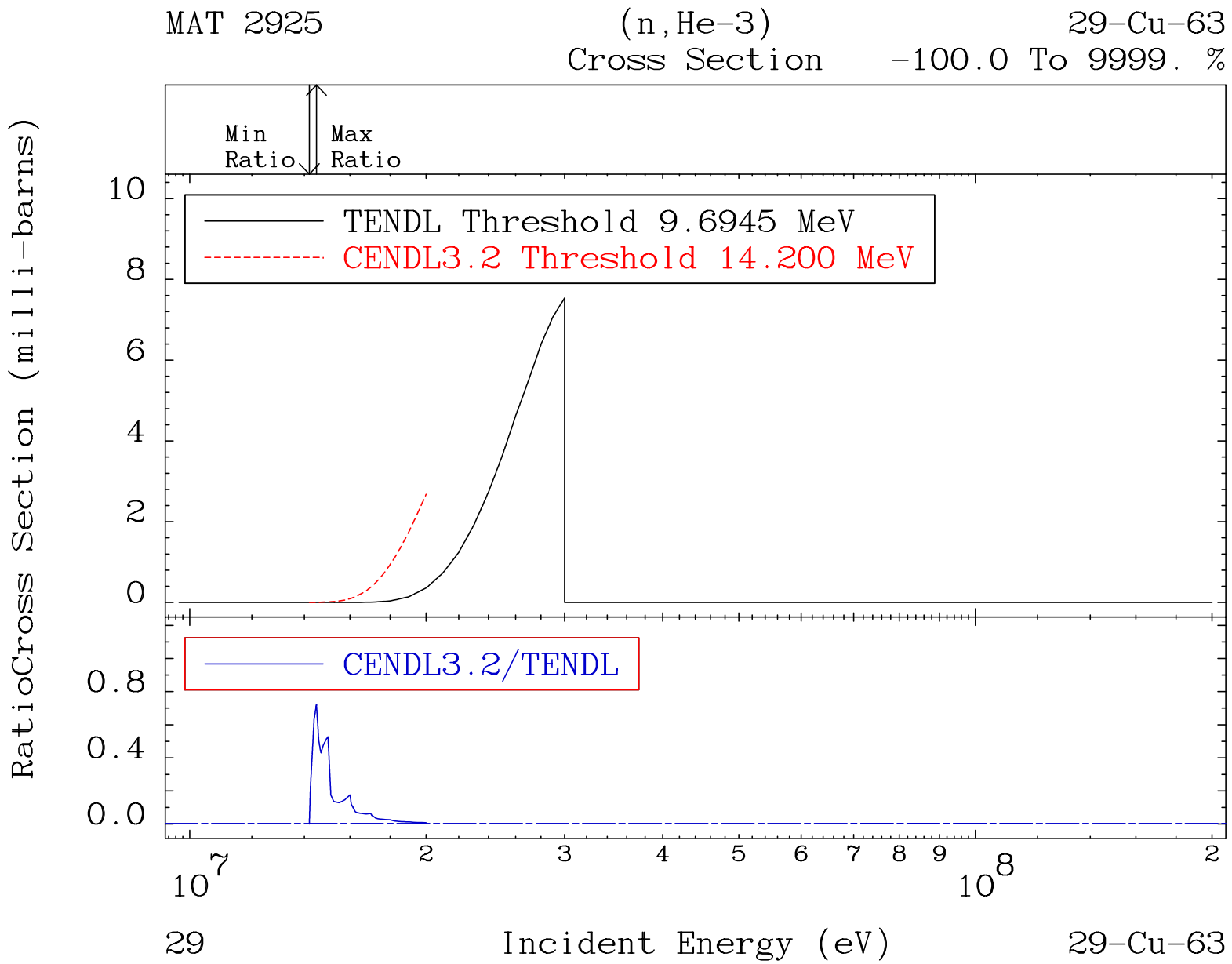

MAT 2925
(n,n') Continuum
Cross Section
29-Cu-63
-100.0 To 15.81 %
Min Ratio
Max Ratio
TENDL Threshold 2.5372 MeV
CENDL3.2 Threshold 3.1000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
24
29-Cu-63

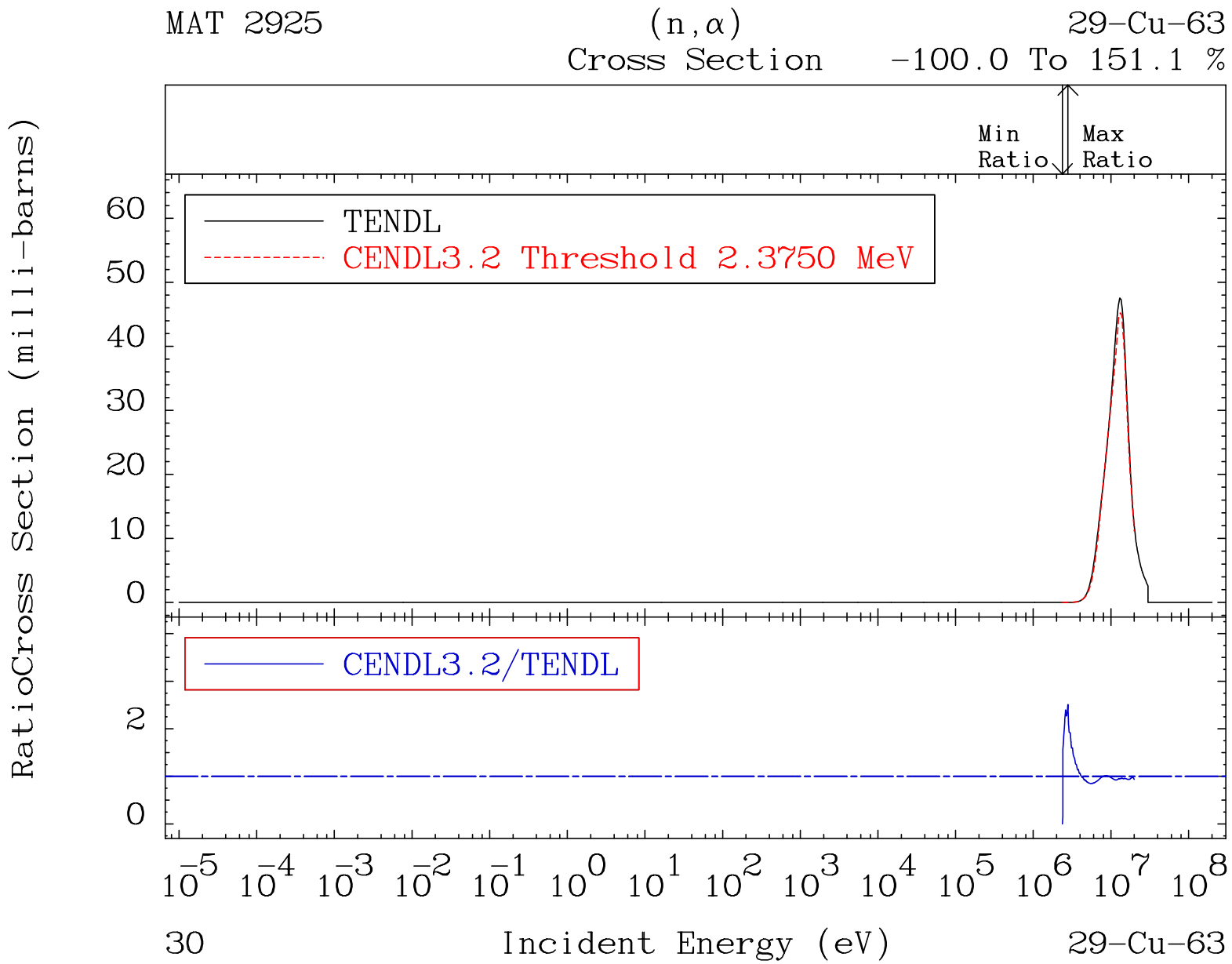

MAT 2925
(n,γ)
Cross Section
29-Cu-63
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
25
29-Cu-63

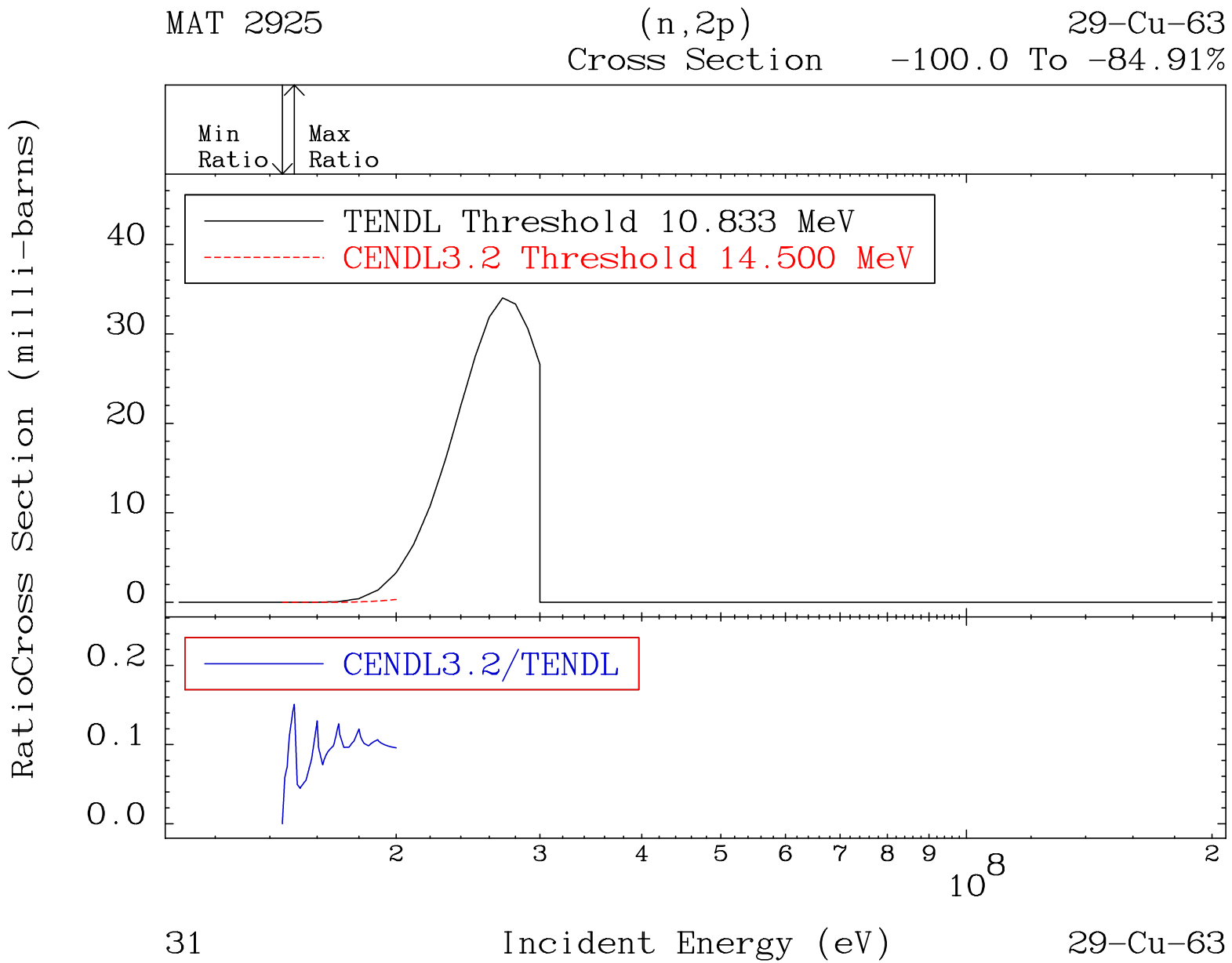

MAT 2925
(n,p)
Cross Section
29-Cu-63
-100.0 To 35.74 %
Min
Ratio
TENDL
CENDL3.2 Threshold 400.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
29-Cu-63

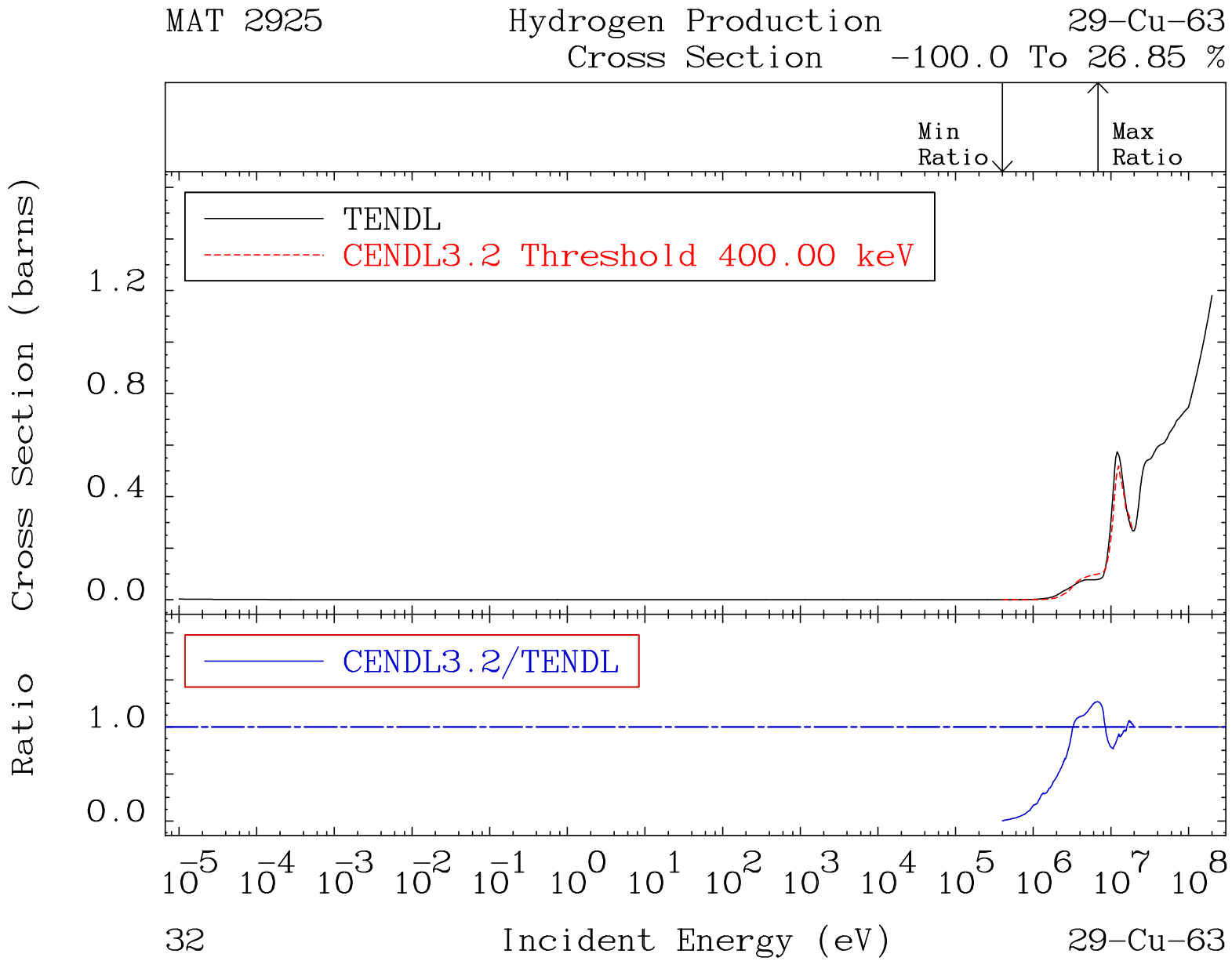

MAT 2925
(n,d)
29-Cu-63
Cross Section
-100.0 To 1130. %
Min Ratio
Max Ratio
TENDL Threshold 3.9603 MeV
CENDL3.2 Threshold 5.8701 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
29-Cu-63

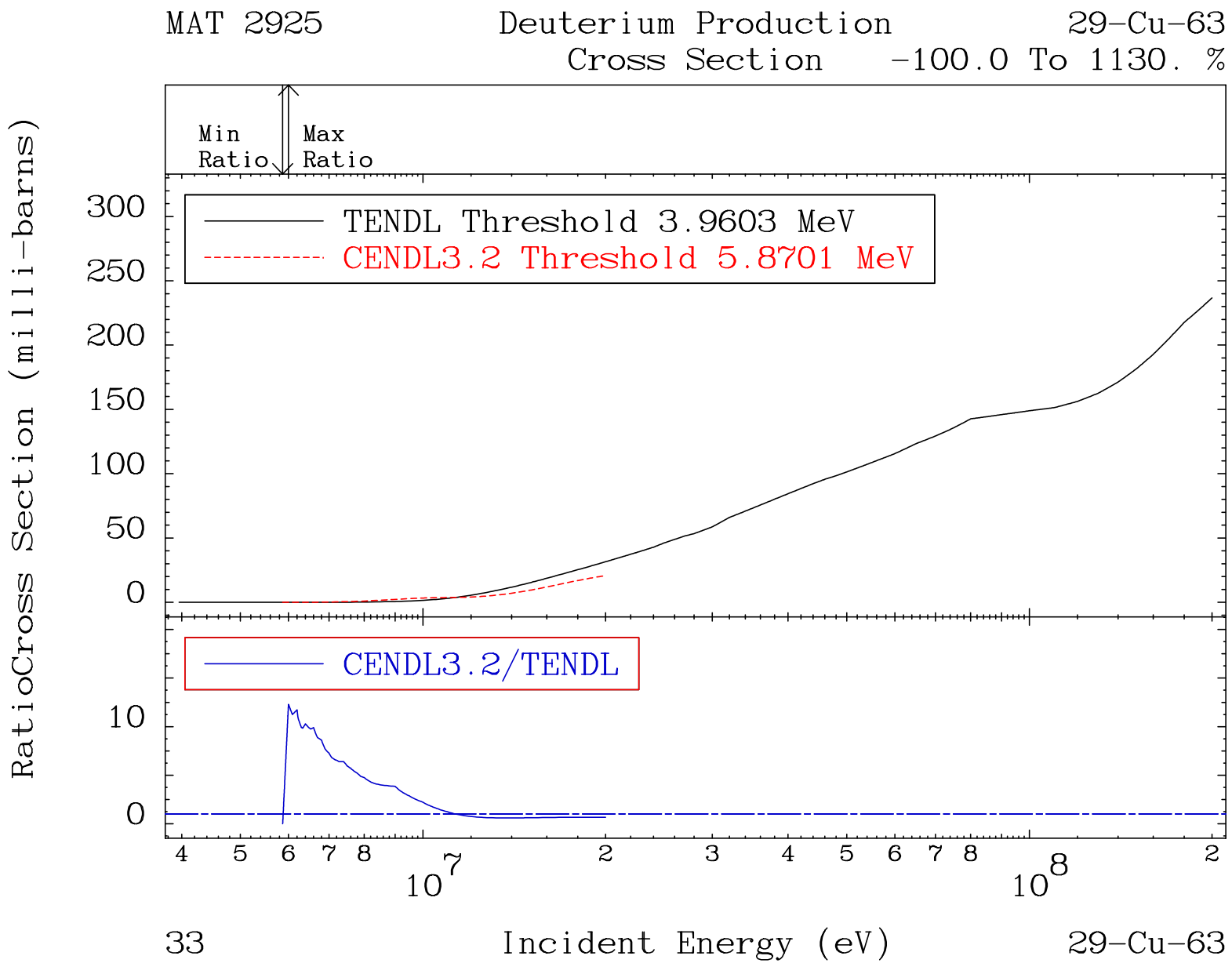

MAT 2925
(n,t)
Cross Section
29-Cu-63
-100.0 To -2.391%
Min Ratio
Max Ratio
TENDL Threshold 8.3683 MeV
CENDL3.2 Threshold 12.017 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
29-Cu-63

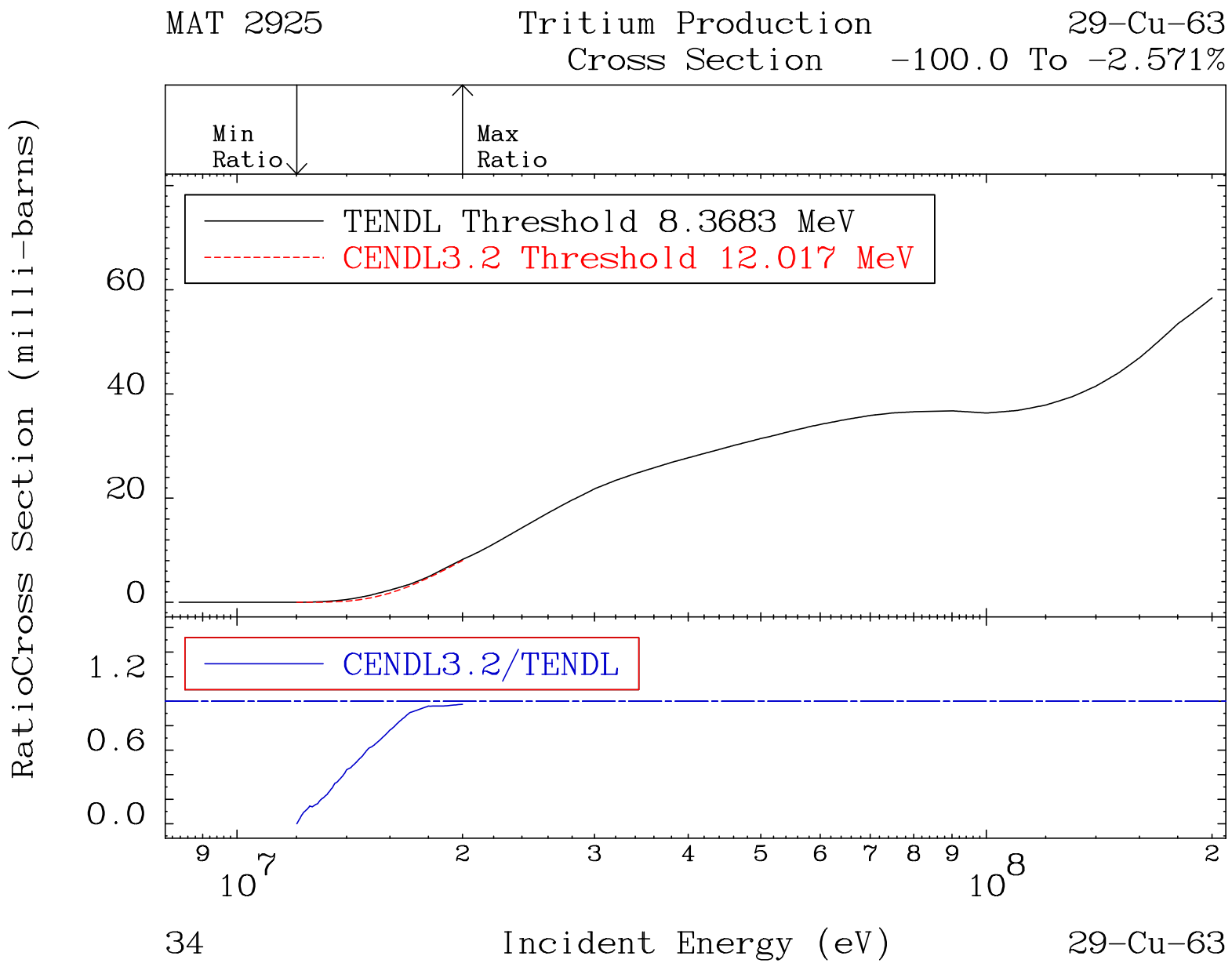

MAT 2925
(n,He-3)
Cross Section
29-Cu-63
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.6945 MeV
CENDL3.2 Threshold 14.200 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
0.8
0.4
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
29-Cu-63

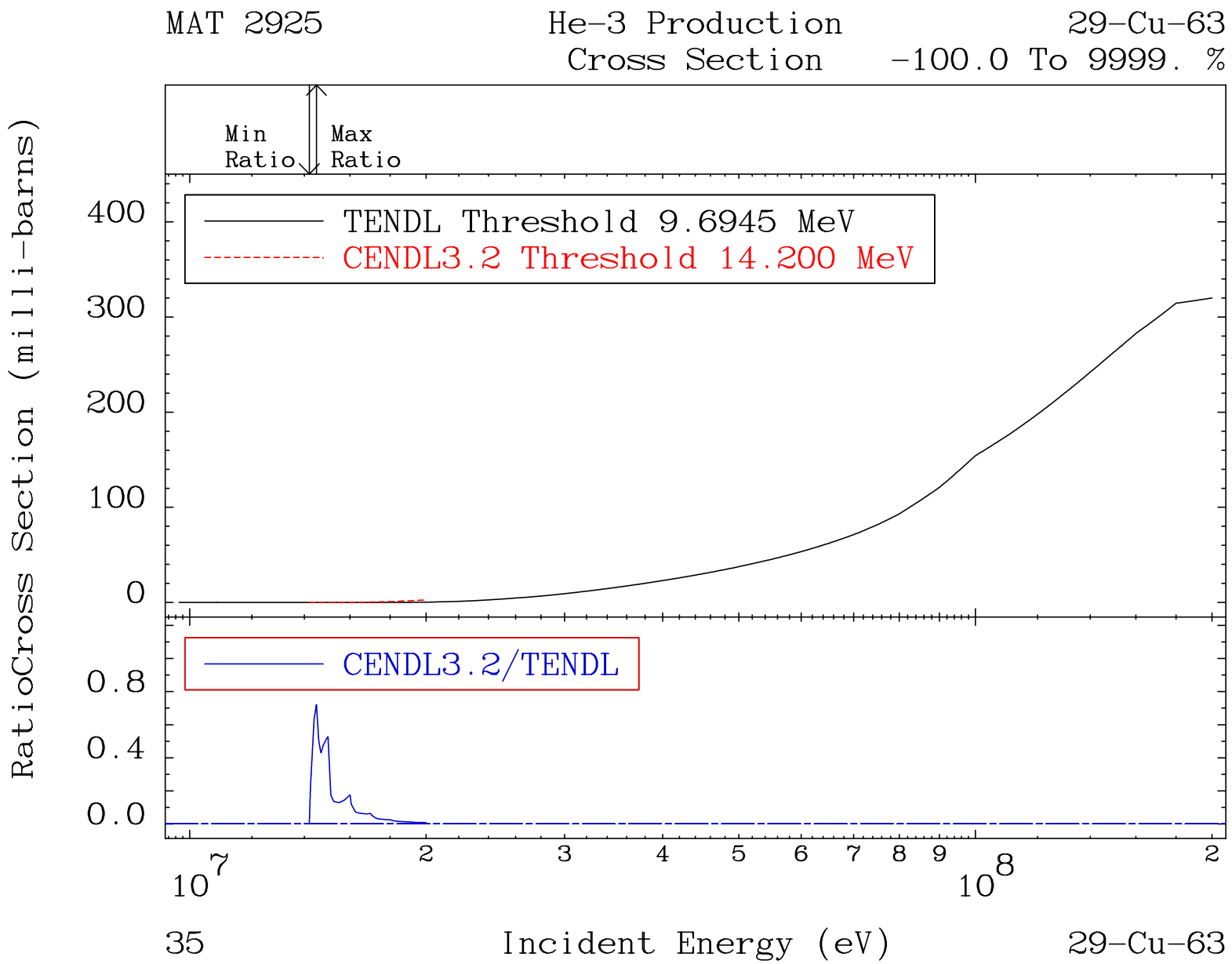

MAT 2925
(n,α)
Cross Section
29-Cu-63
-100.0 To 151.1 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 2.3750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
30
29-Cu-63

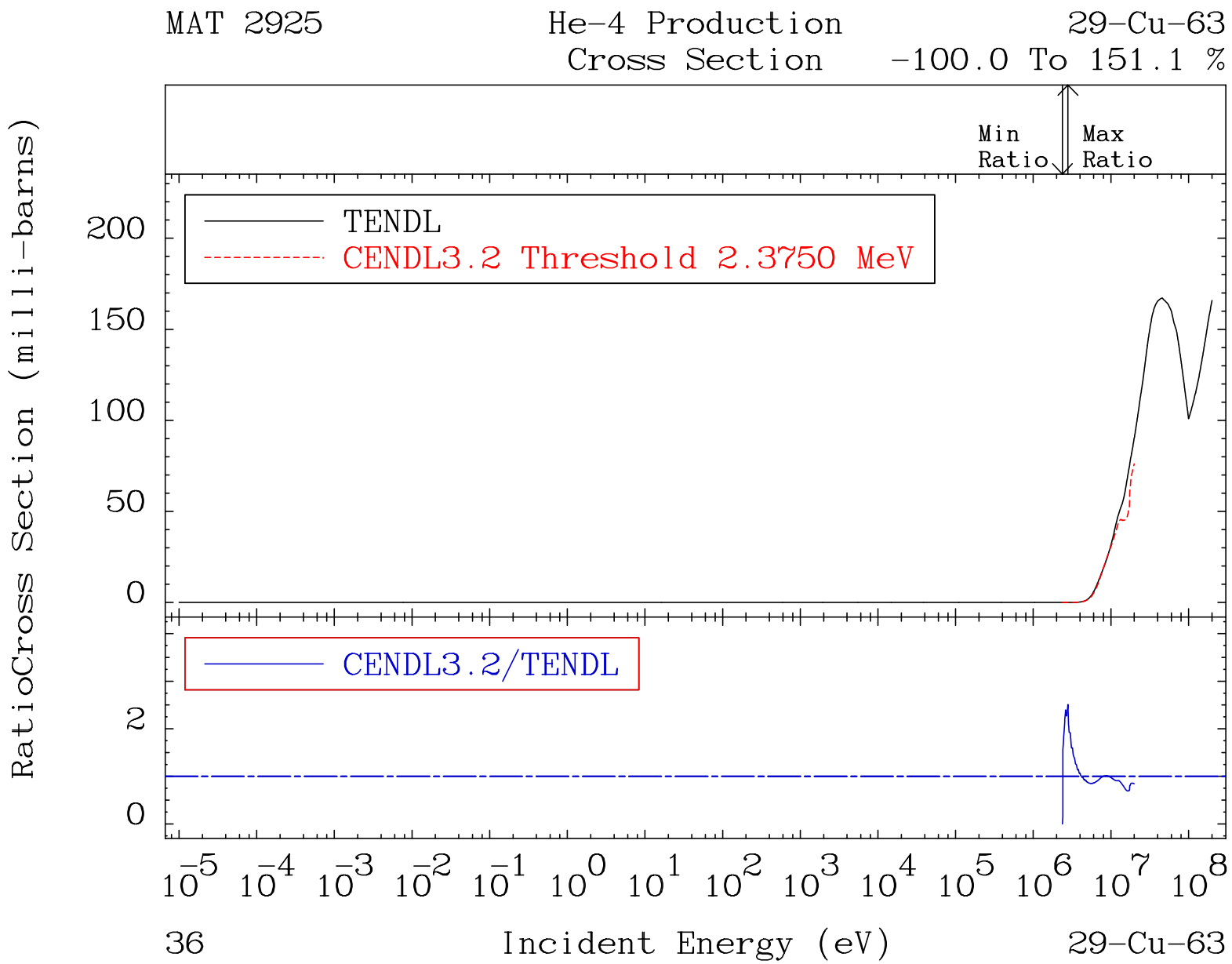

MAT 2925
(n,2p)
29-Cu-63
Cross Section
-100.0 To -84.91%
Min Ratio
Max Ratio
TENDL Threshold 10.833 MeV
CENDL3.2 Threshold 14.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
0.2
0.1
0.0
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
29-Cu-63

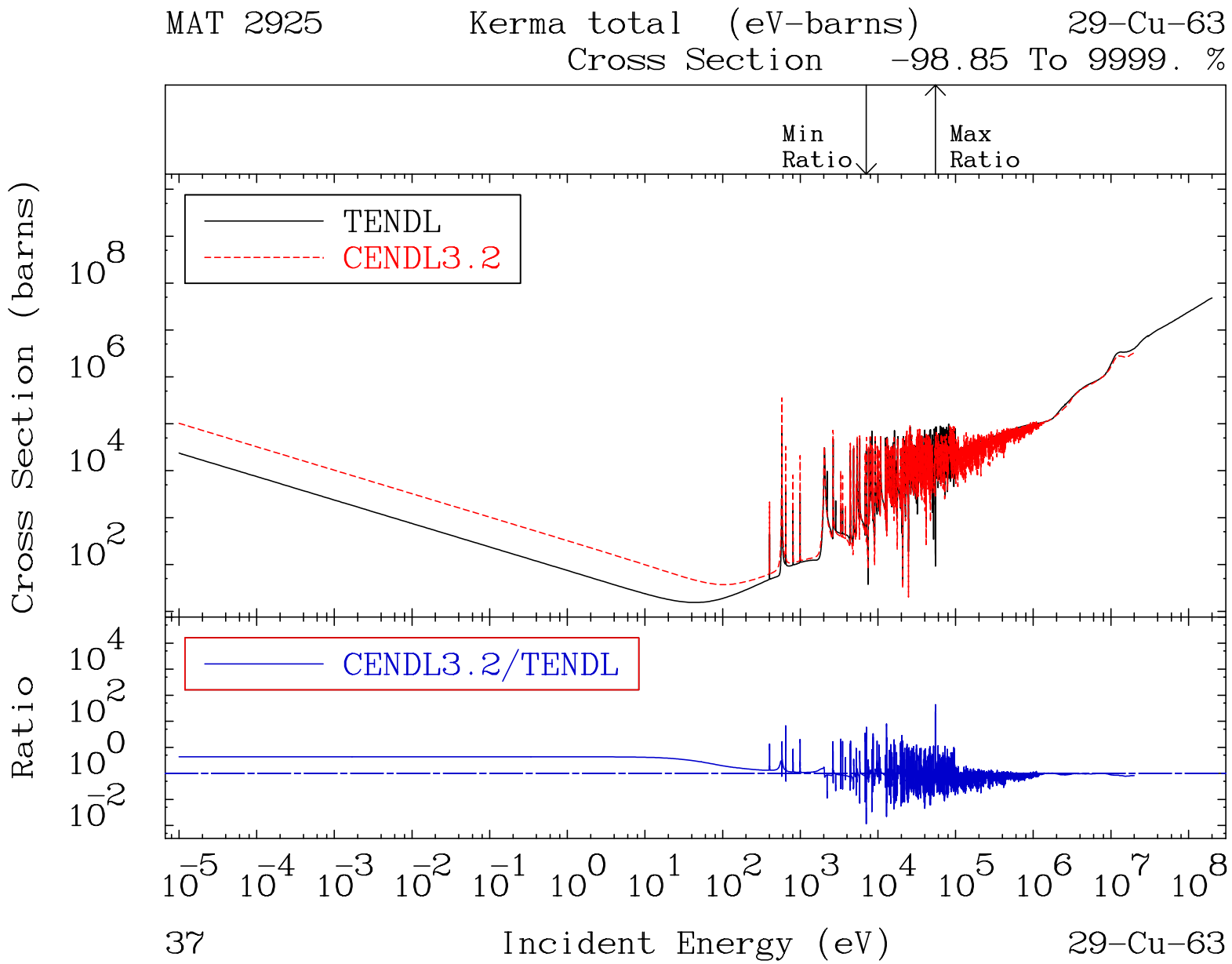

MAT 2925
Hydrogen Production
29-Cu-63
Cross Section
-100.0 To 26.85 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 400.00 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
0.8
0.4
0.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
32
Incident Energy (eV)
29-Cu-63

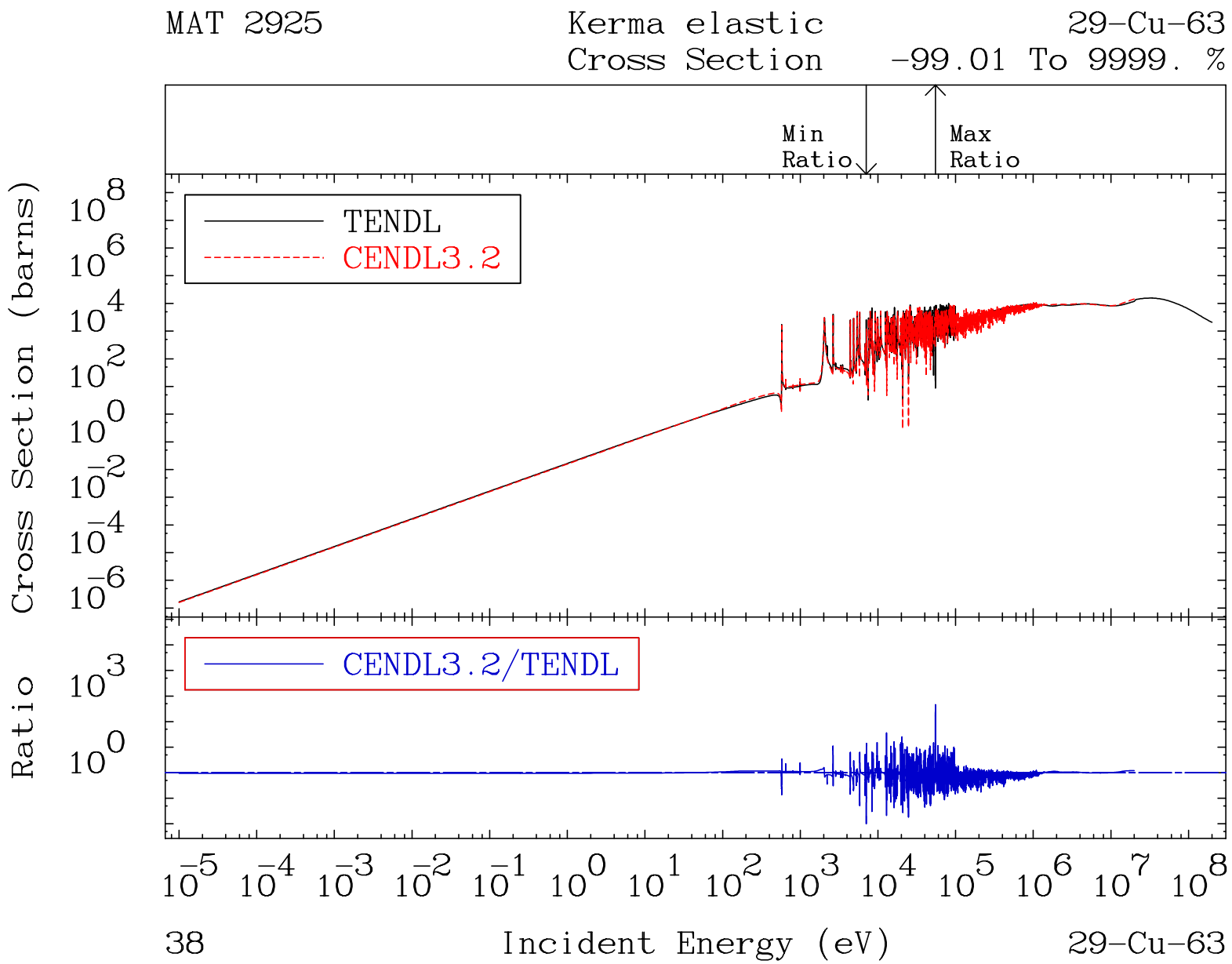

MAT 2925
Deuterium Production
29-Cu-63
Cross Section -100.0 To 1130. %
Min Ratio
Max Ratio
TENDL Threshold 3.9603 MeV
CENDL3.2 Threshold 5.8701 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
29-Cu-63

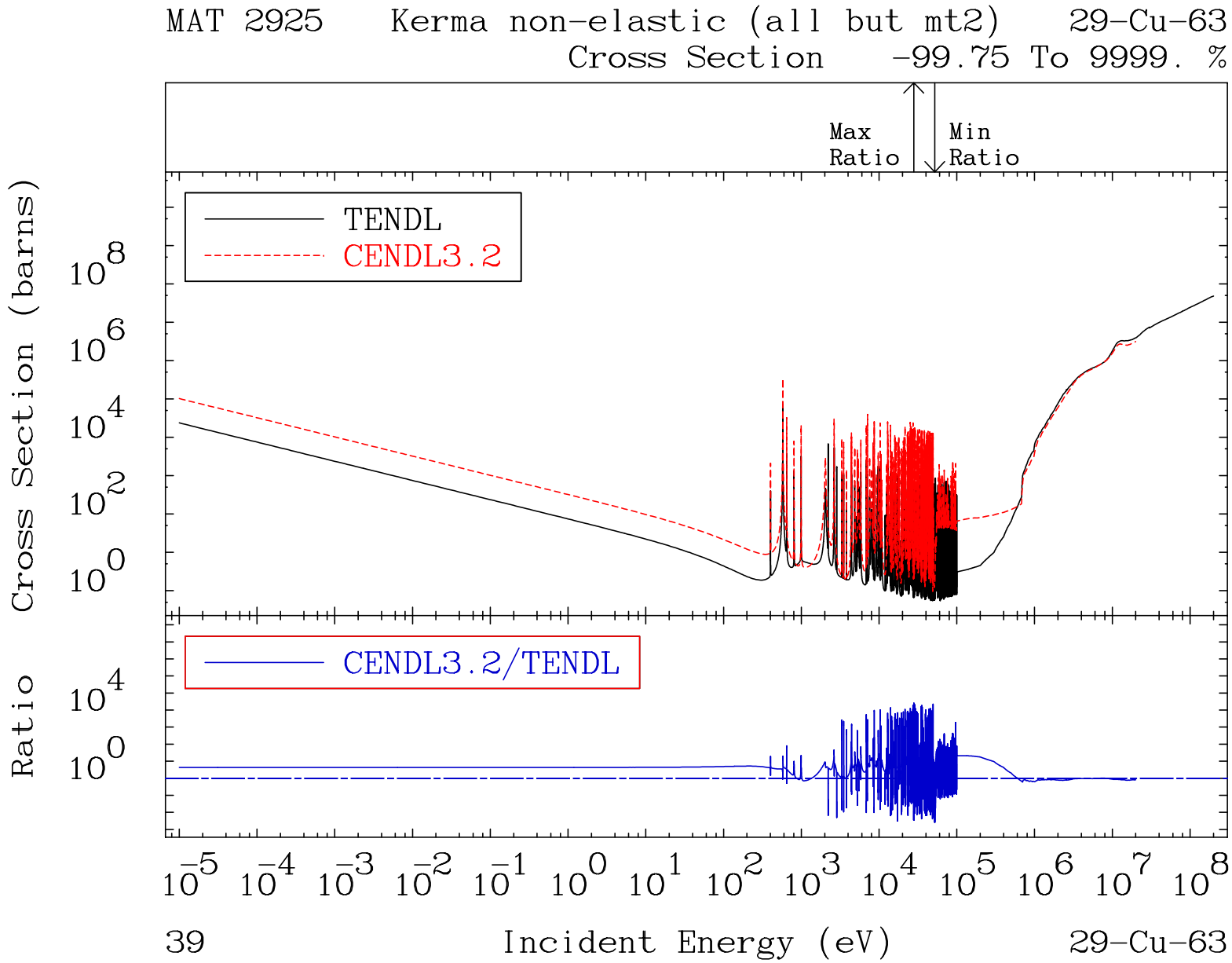

MAT 2925
Tritium Production
29-Cu-63
Cross Section
-100.0 To -2.571%
Min Ratio
Max Ratio
TENDL Threshold 8.3683 MeV
CENDL3.2 Threshold 12.017 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
29-Cu-63

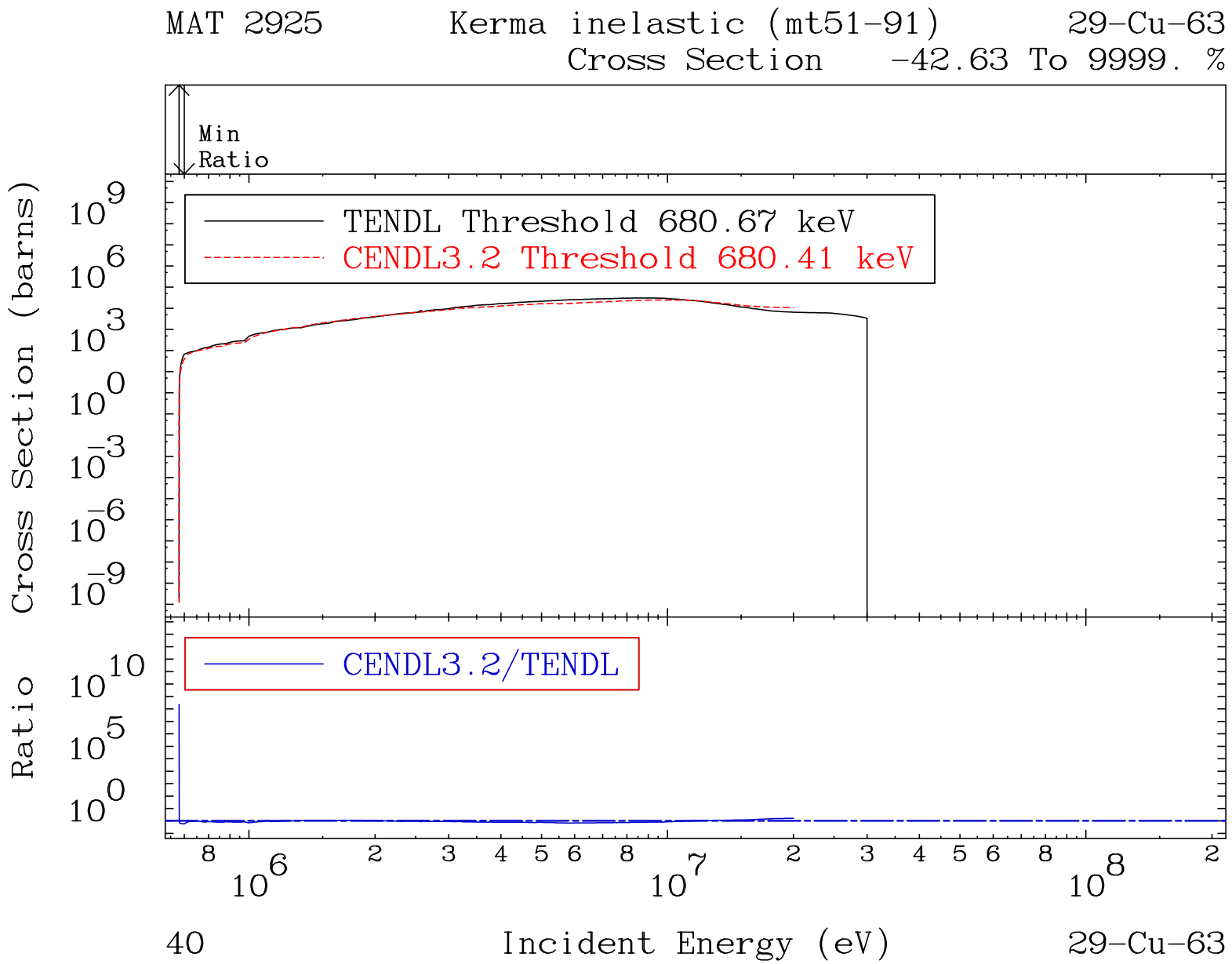

MAT 2925
He-3 Production
Cross Section
29-Cu-63
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.6945 MeV
CENDL3.2 Threshold 14.200 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
0.8
0.4
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
35
Incident Energy (eV)
29-Cu-63

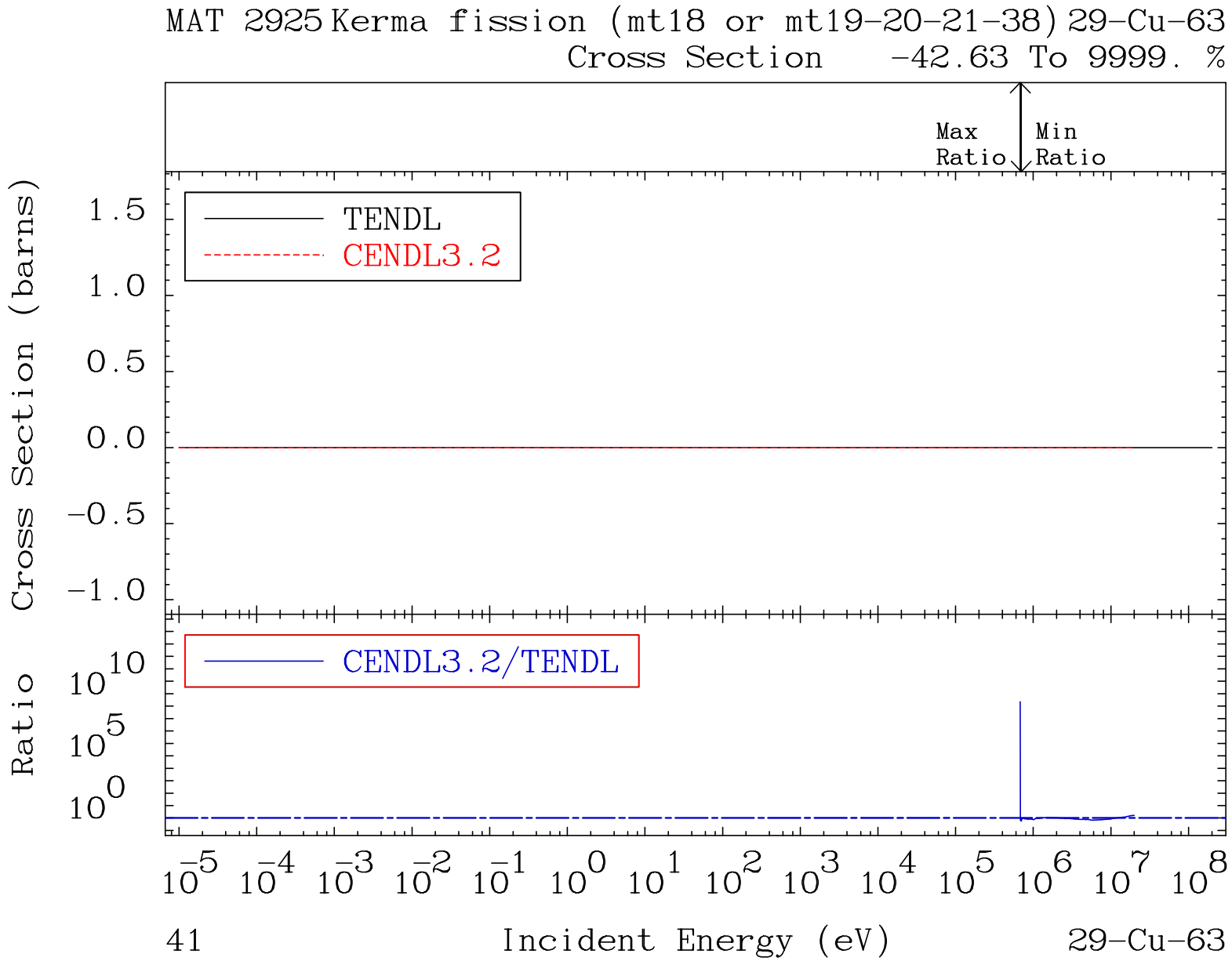

MAT 2925
He-4 Production
Cross Section
29-Cu-63
-100.0 To 151.1 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 2.3750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
36
Incident Energy (eV)
29-Cu-63

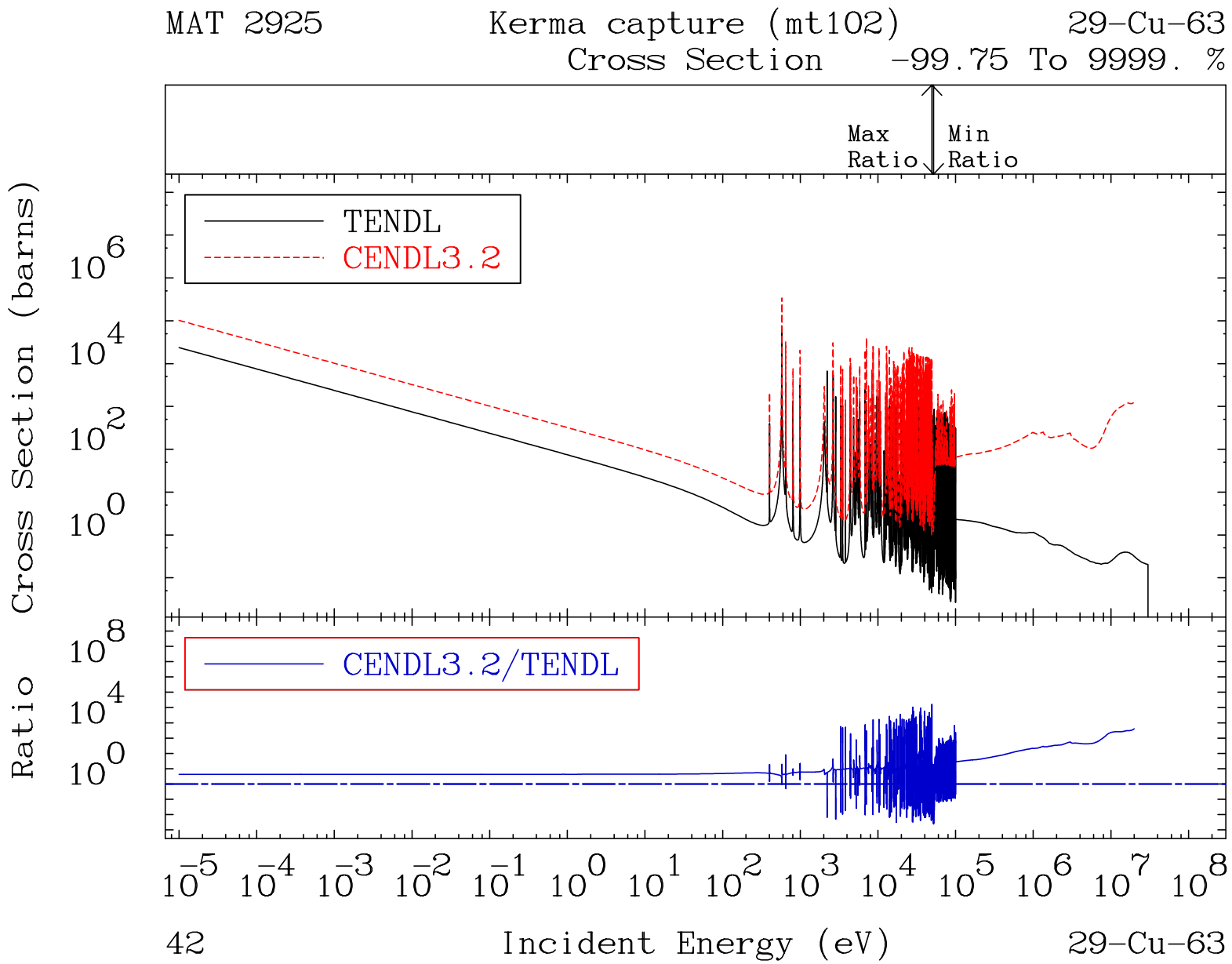

MAT 2925
Kerma total (eV-barns)
29-Cu-63
Cross Section -98.85 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
29-Cu-63

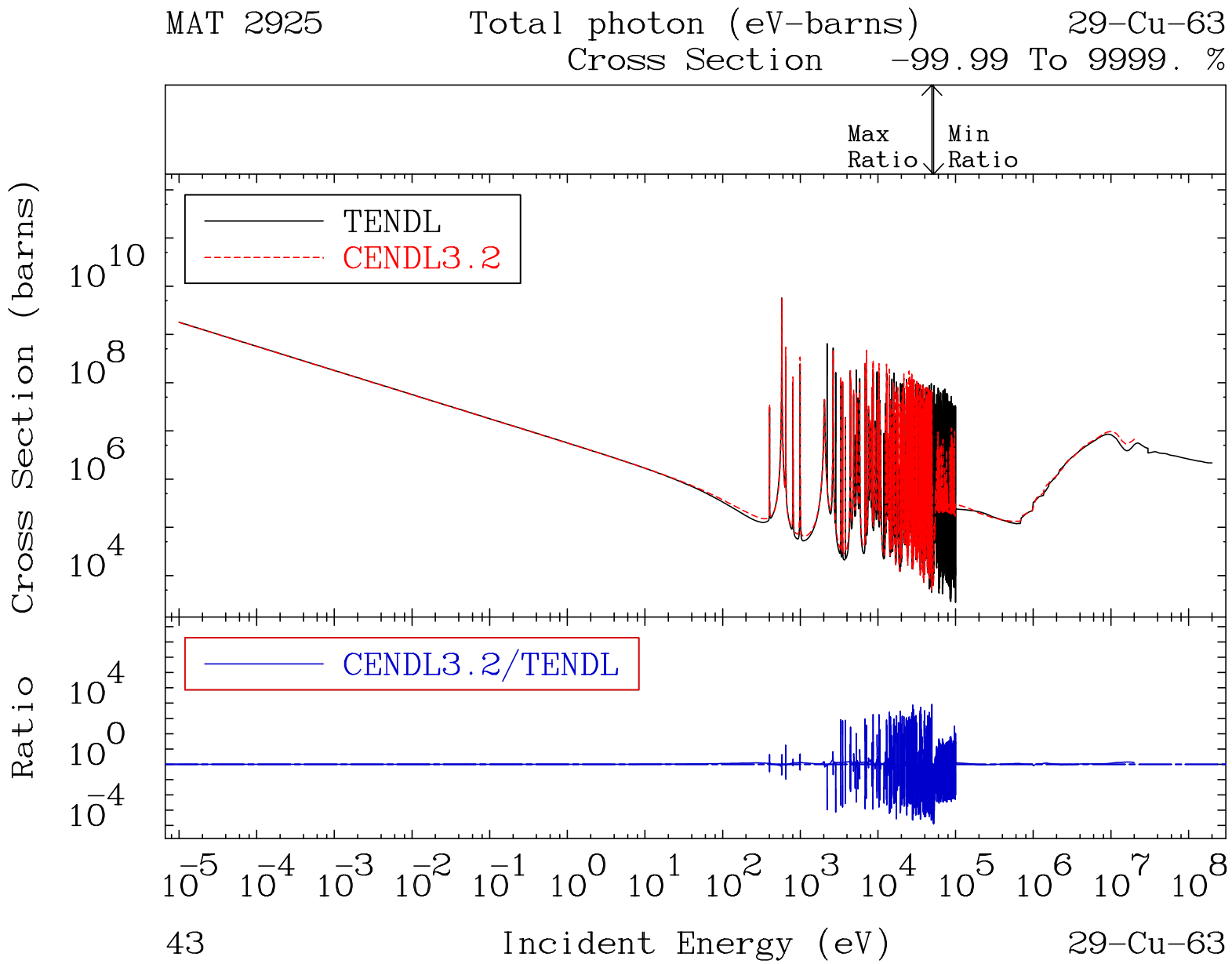

MAT 2925
Kerma elastic
Cross Section
29-Cu-63
-99.01 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
29-Cu-63

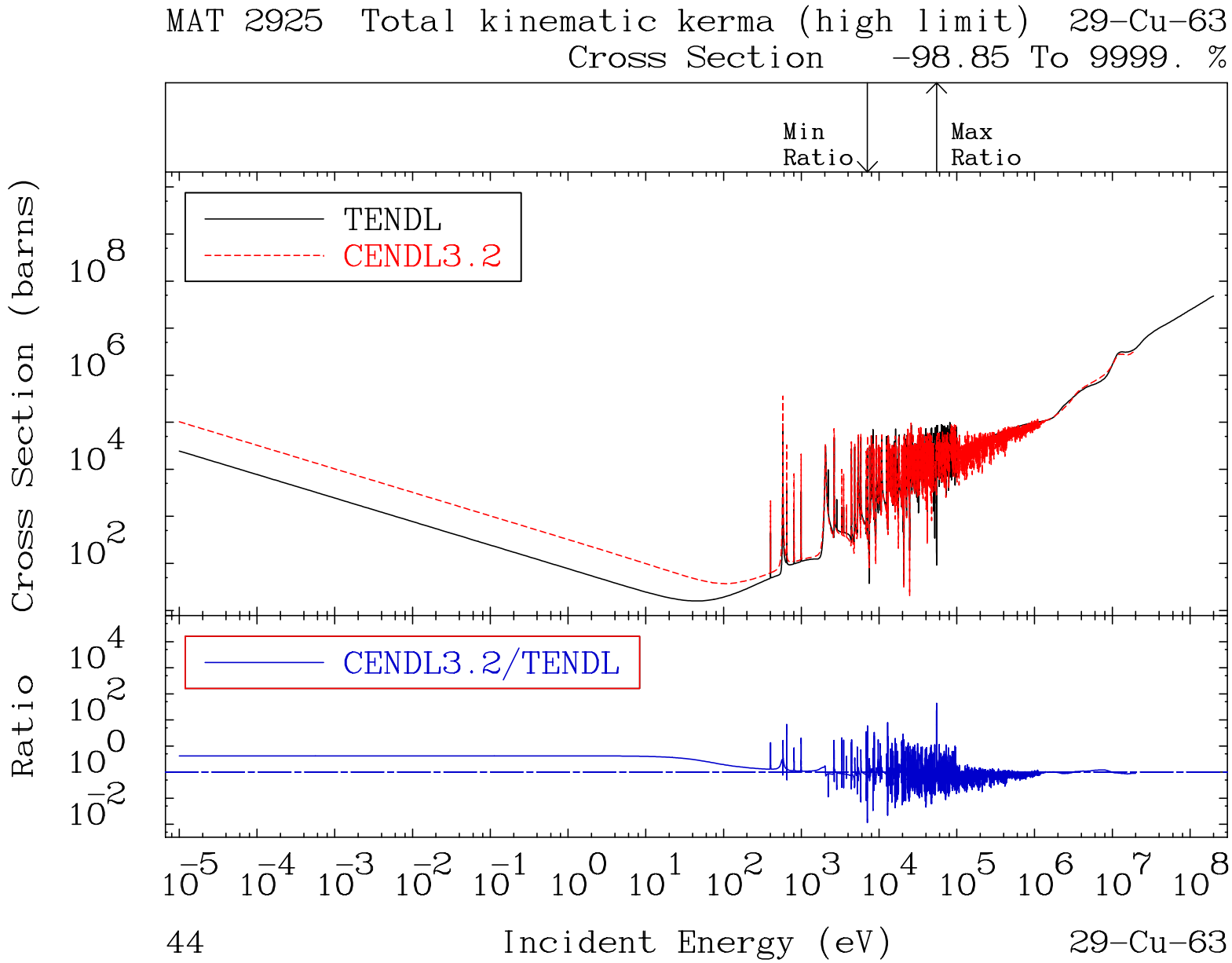

MAT 2925 Kerma non-elastic (all but mt2) 29-Cu-63
Cross Section -99.75 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
29-Cu-63

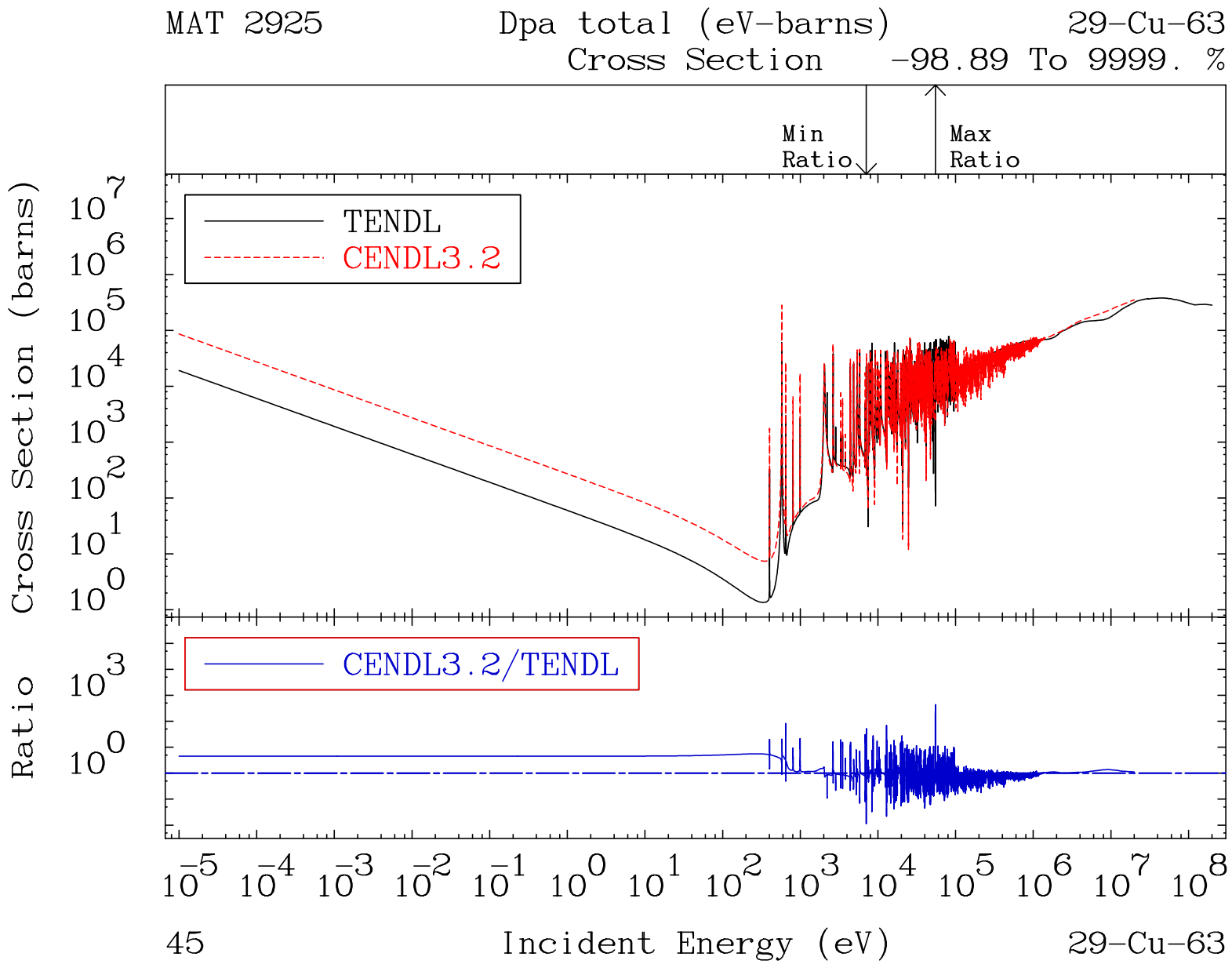

MAT 2925
Kerma inelastic (mt51-91)
29-Cu-63
Cross Section
-42.63 To 9999. %
Min
Ratio
TENDL Threshold 680.67 keV
CENDL3.2 Threshold 680.41 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
29-Cu-63

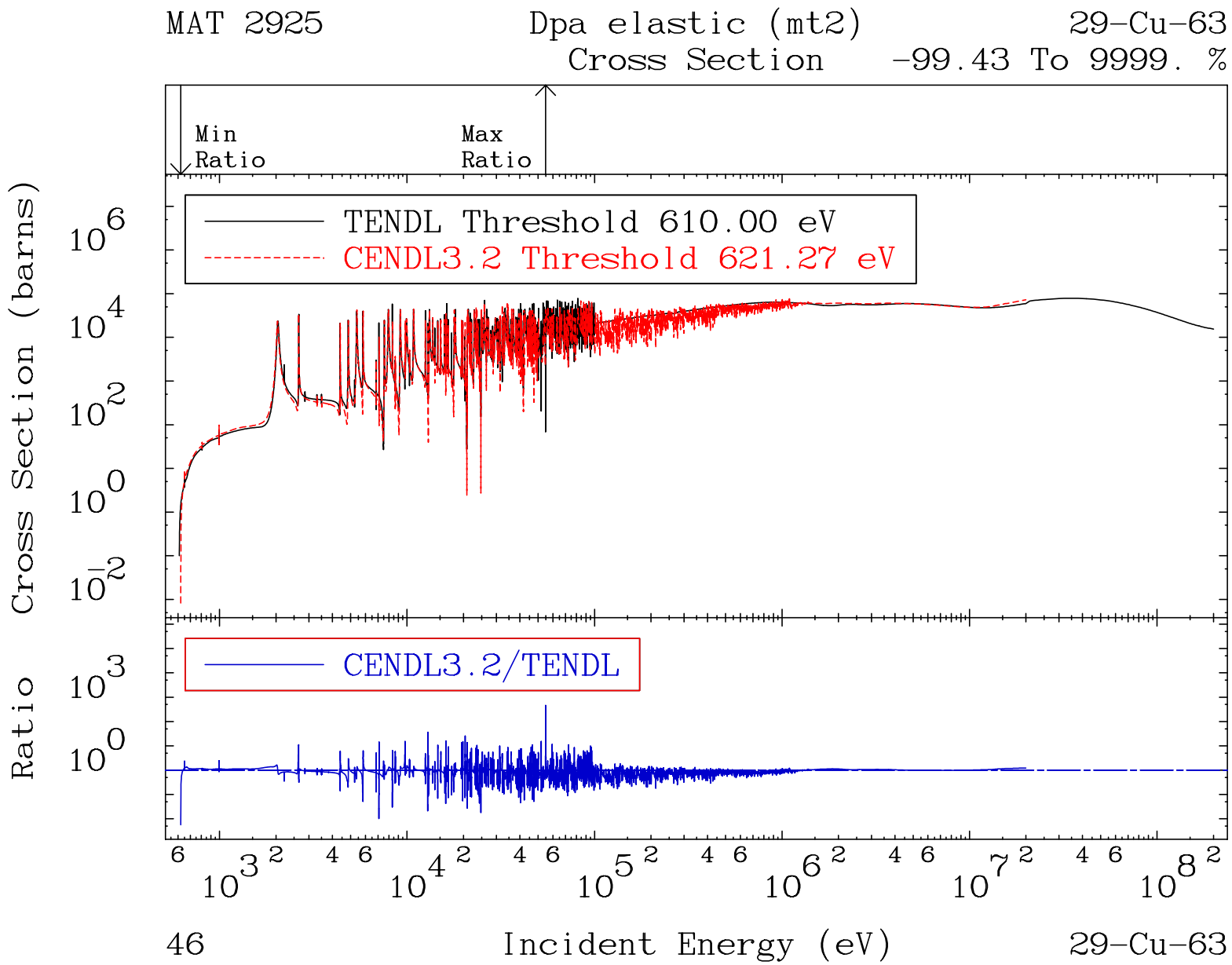

MAT 2925 Kerma fission (mt18 or mt19-20-21-38) 29-Cu-63
Cross Section -42.63 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{10}
10^{5}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
41
Incident Energy (eV)
29-Cu-63

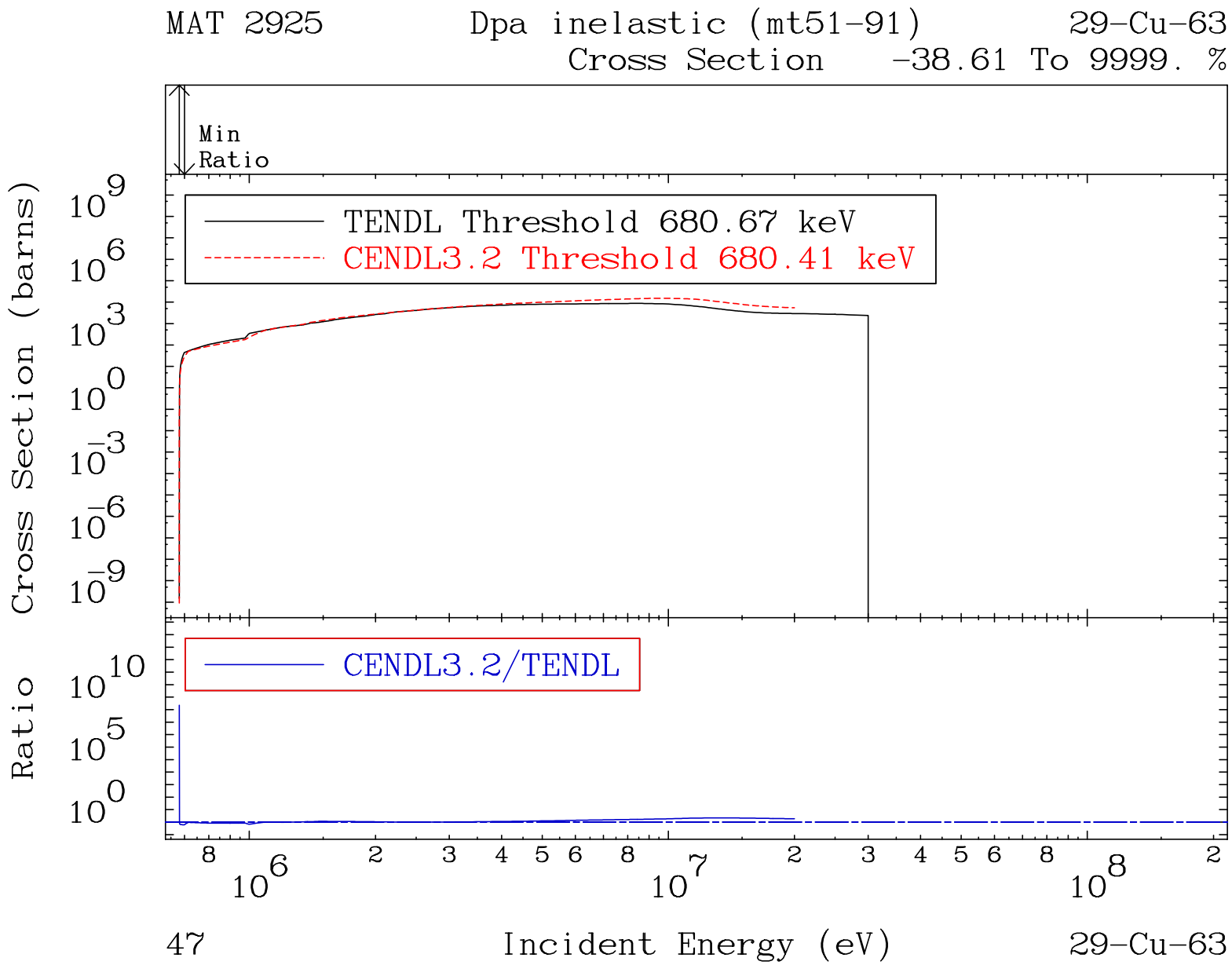

MAT 2925
Kerma capture (mt102)
29-Cu-63
Cross Section -99.75 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
29-Cu-63

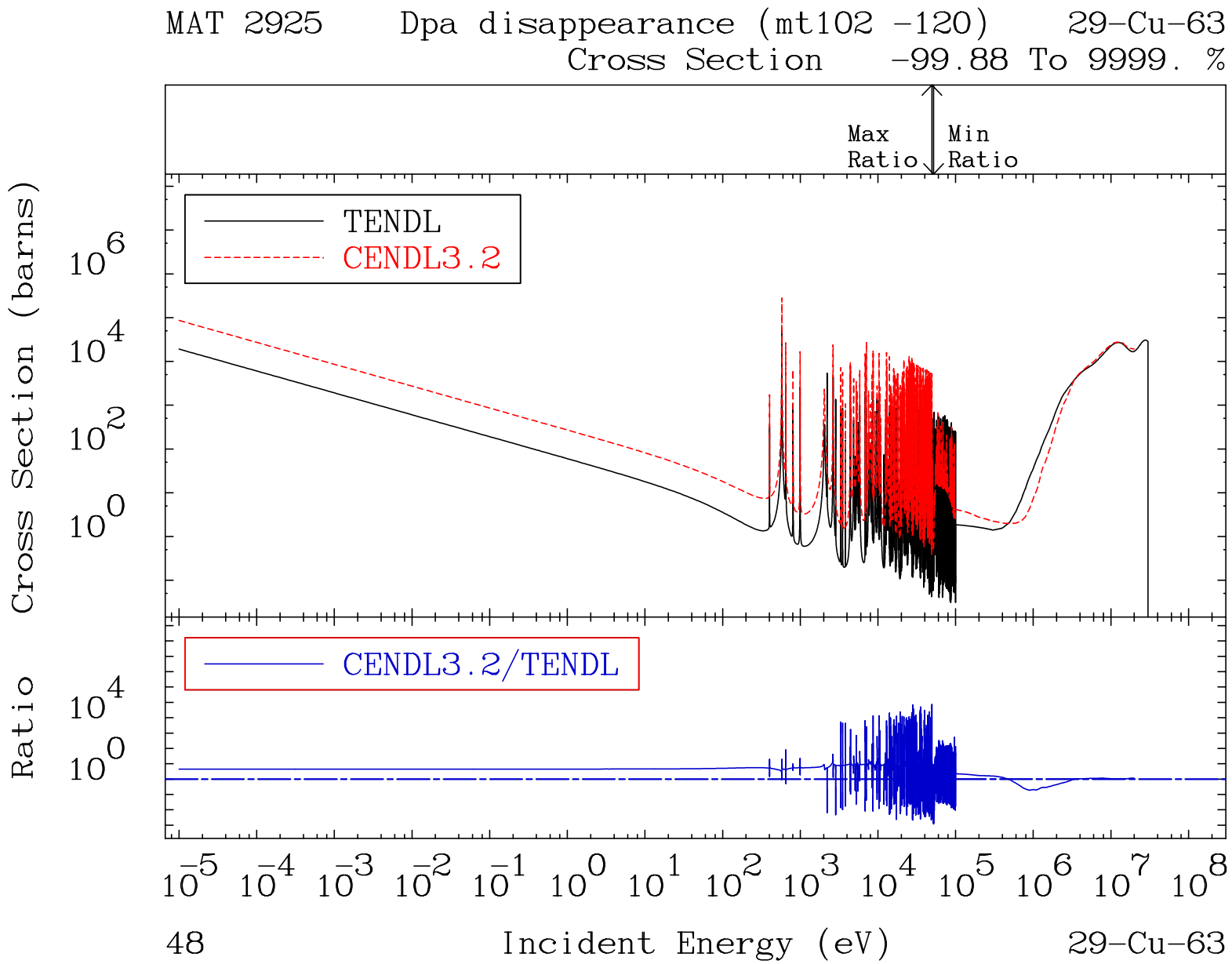

MAT 2925
Total photon (eV-barns)
29-Cu-63
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
CENDL3.2/TENDL
Ratio
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
43
Incident Energy (eV)
29-Cu-63

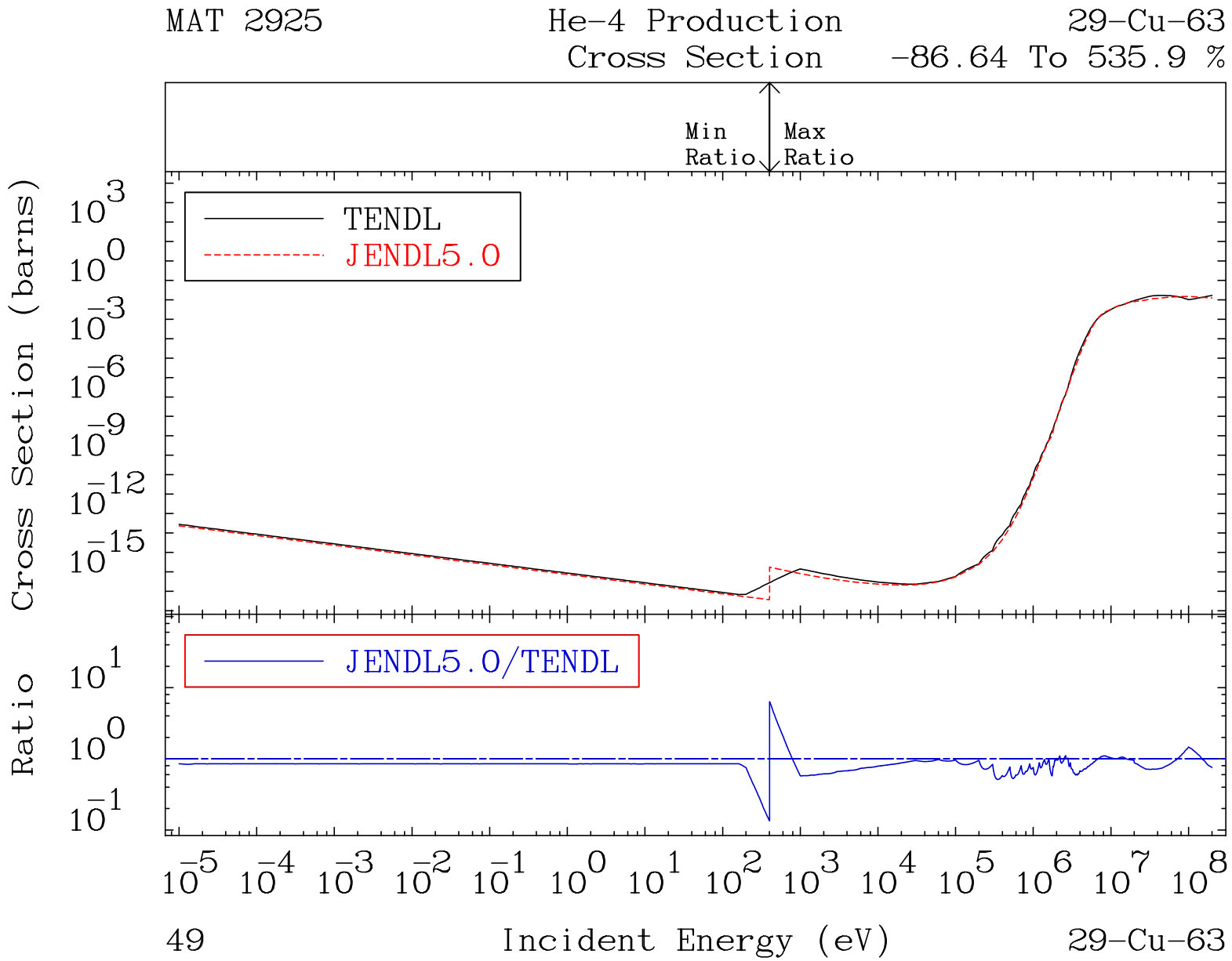

MAT 2925 Total kinematic kerma (high limit) 29-Cu-63
Cross Section -98.85 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
29-Cu-63

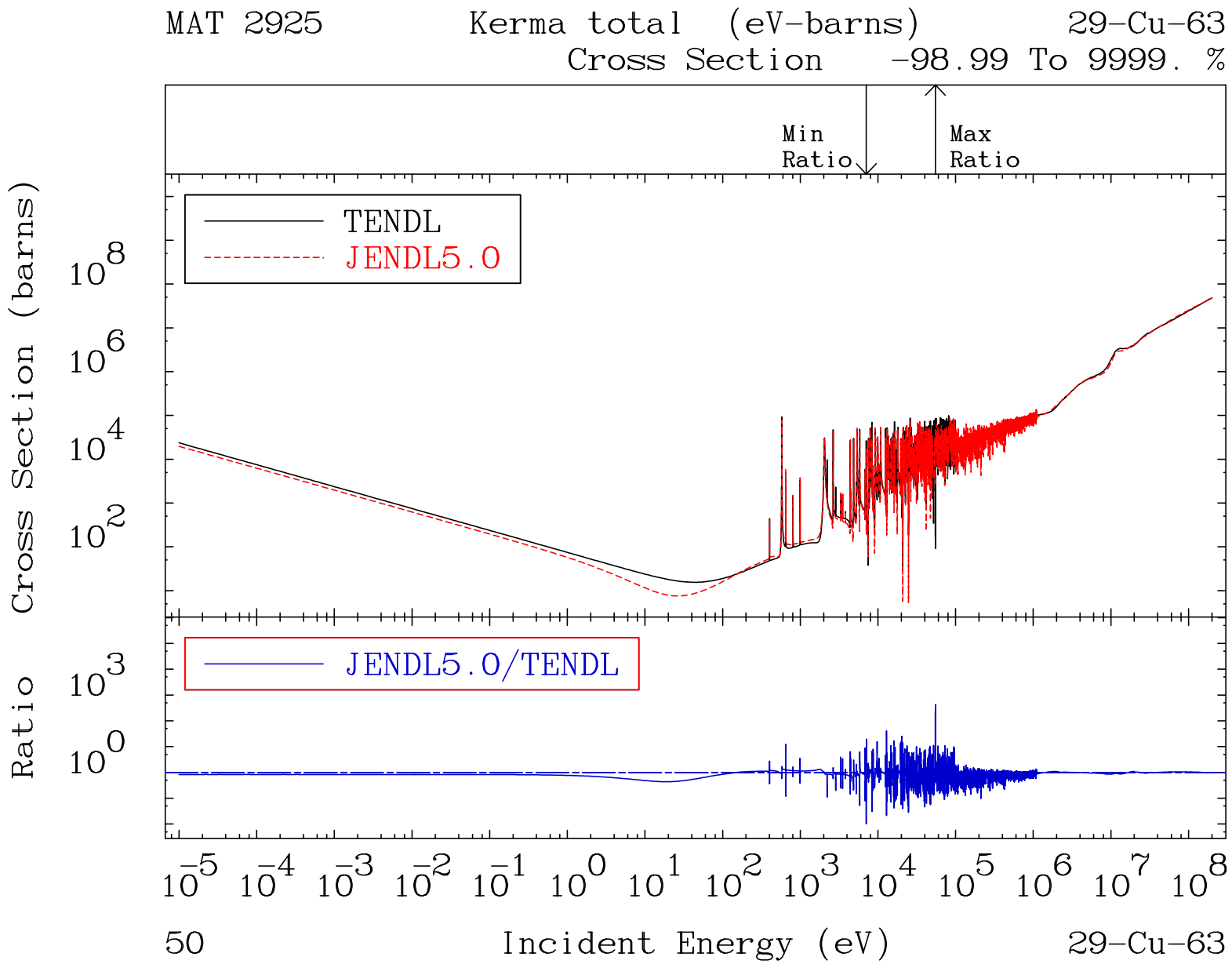

MAT 2925
Dpa total (eV-barns)
29-Cu-63
Cross Section
-98.89 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
29-Cu-63

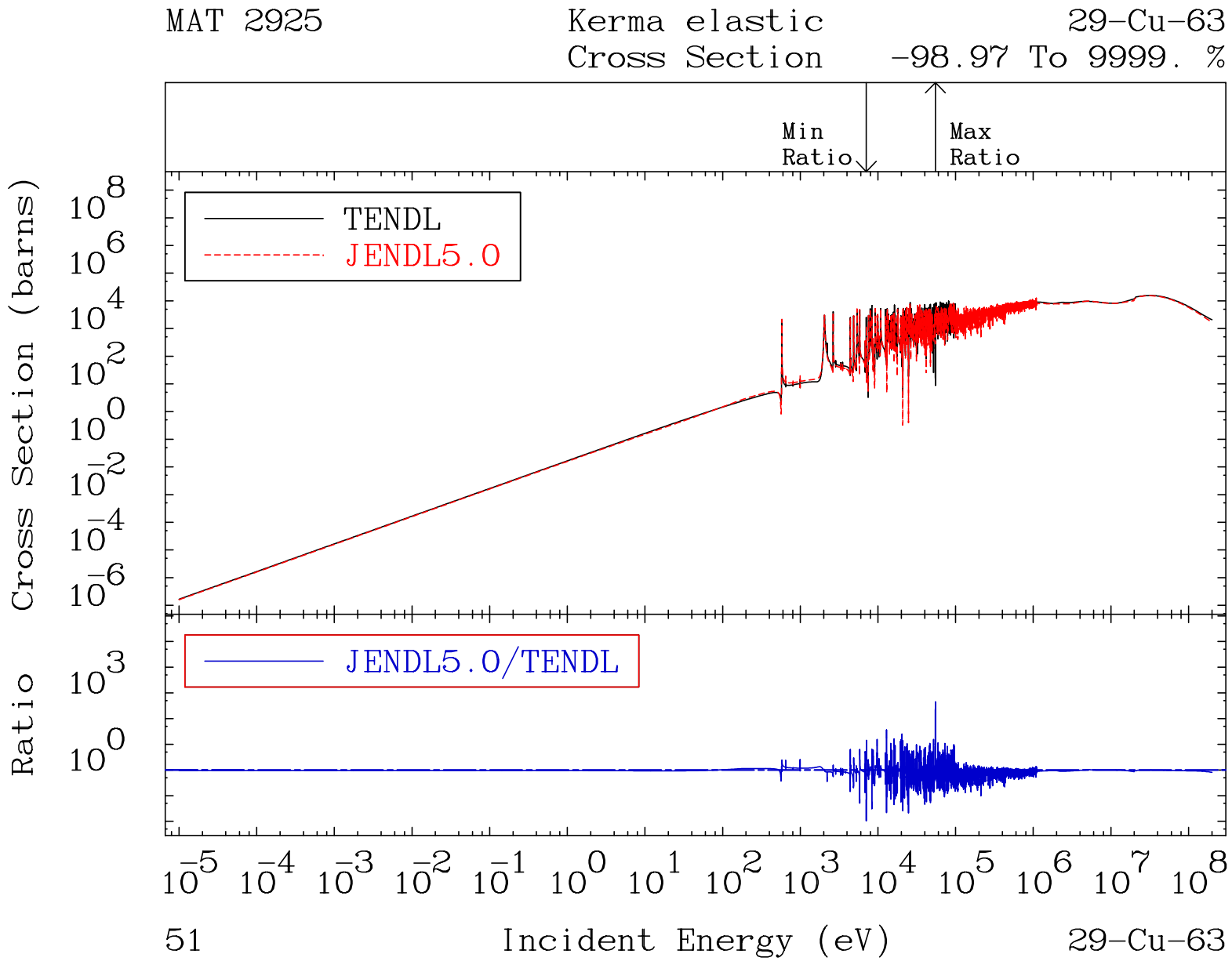

MAT 2925
Dpa elastic (mt2)
Cross Section
29-Cu-63
-99.43 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 610.00 eV
CENDL3.2 Threshold 621.27 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
29-Cu-63

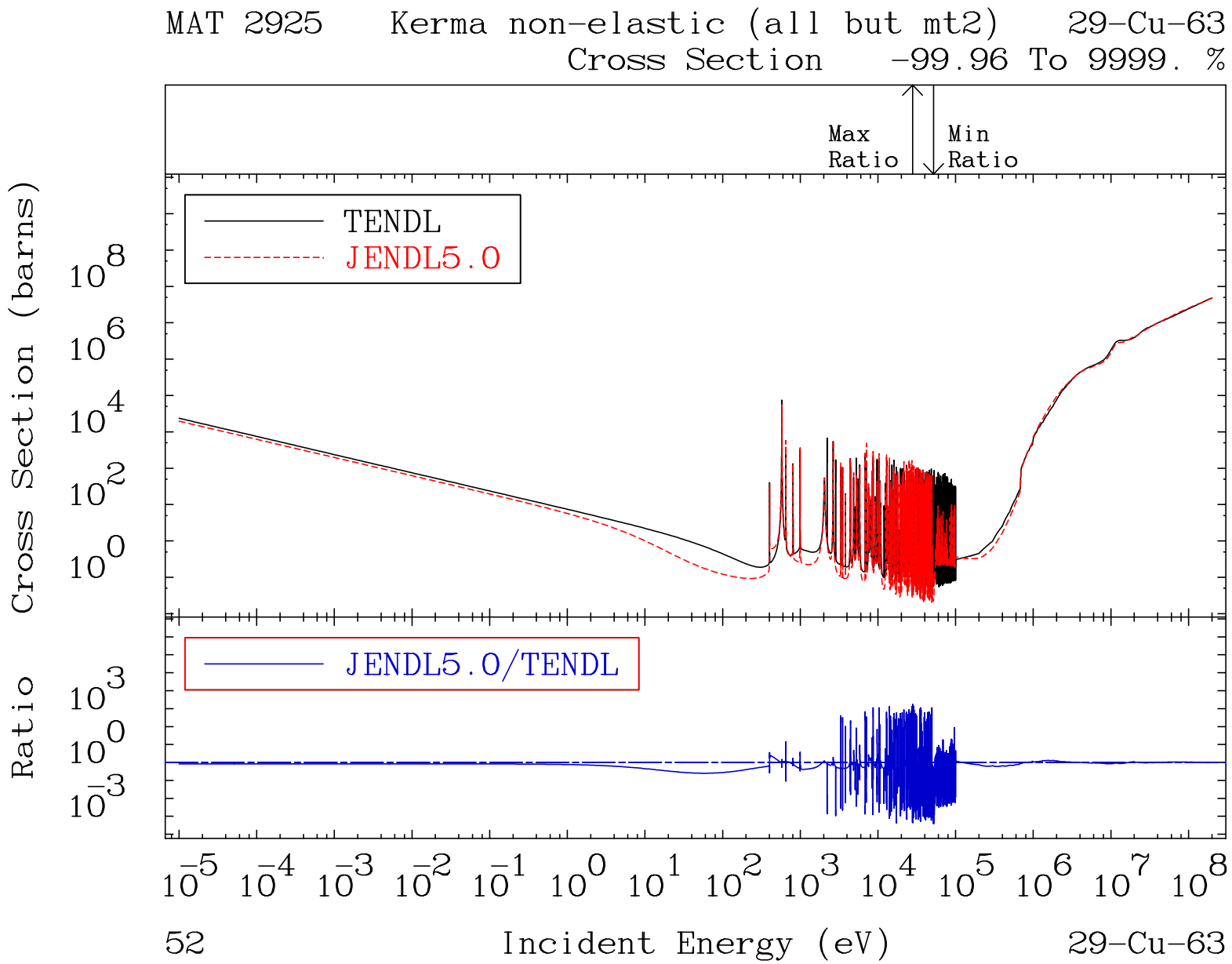

MAT 2925
Dpa inelastic (mt51-91)
29-Cu-63
Cross Section -38.61 To 9999. %
Min
Ratio
TENDL Threshold 680.67 keV
CENDL3.2 Threshold 680.41 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
29-Cu-63

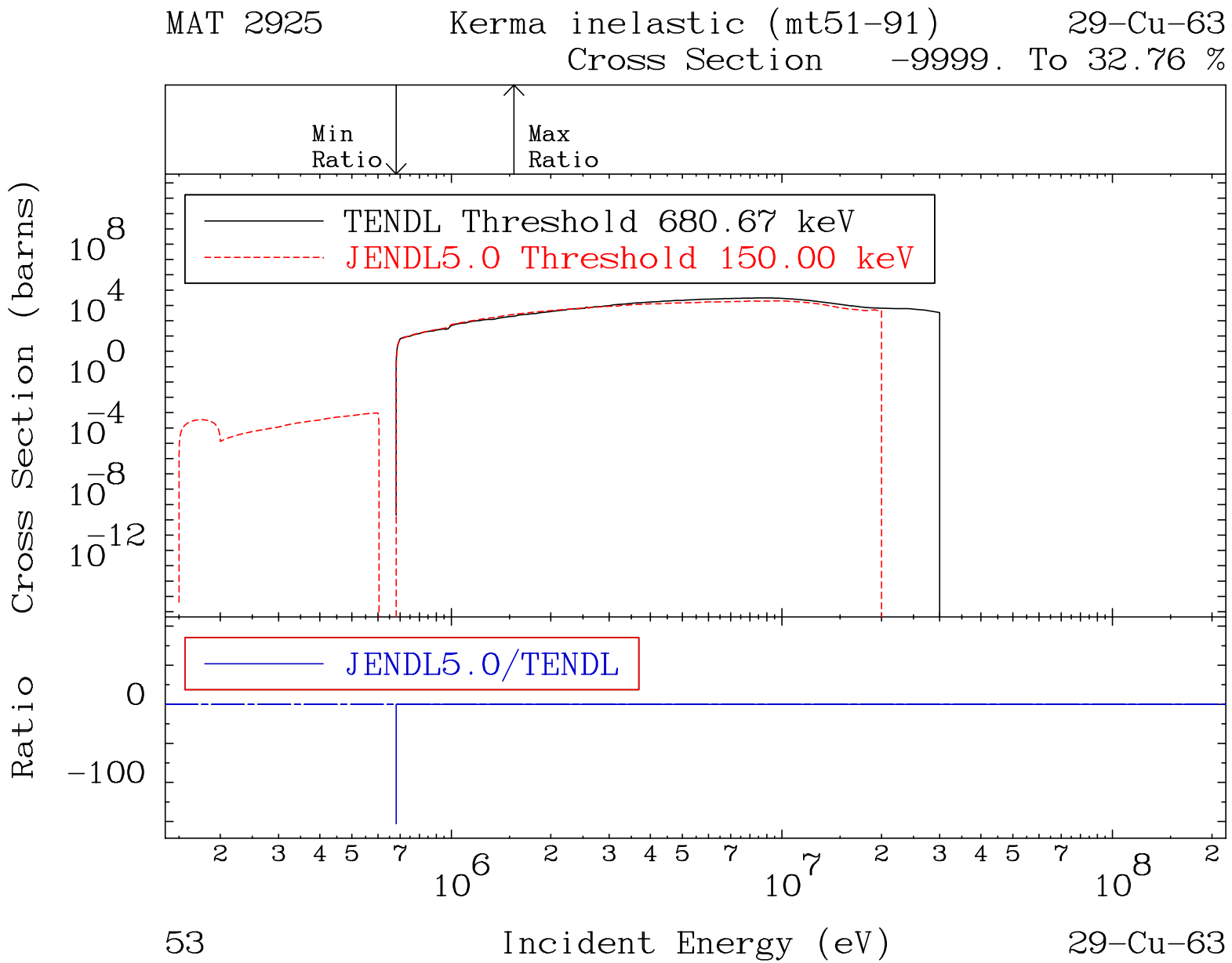

MAT 2925 Dpa disappearance (mt102 -120) 29-Cu-63
Cross Section -99.88 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
29-Cu-63

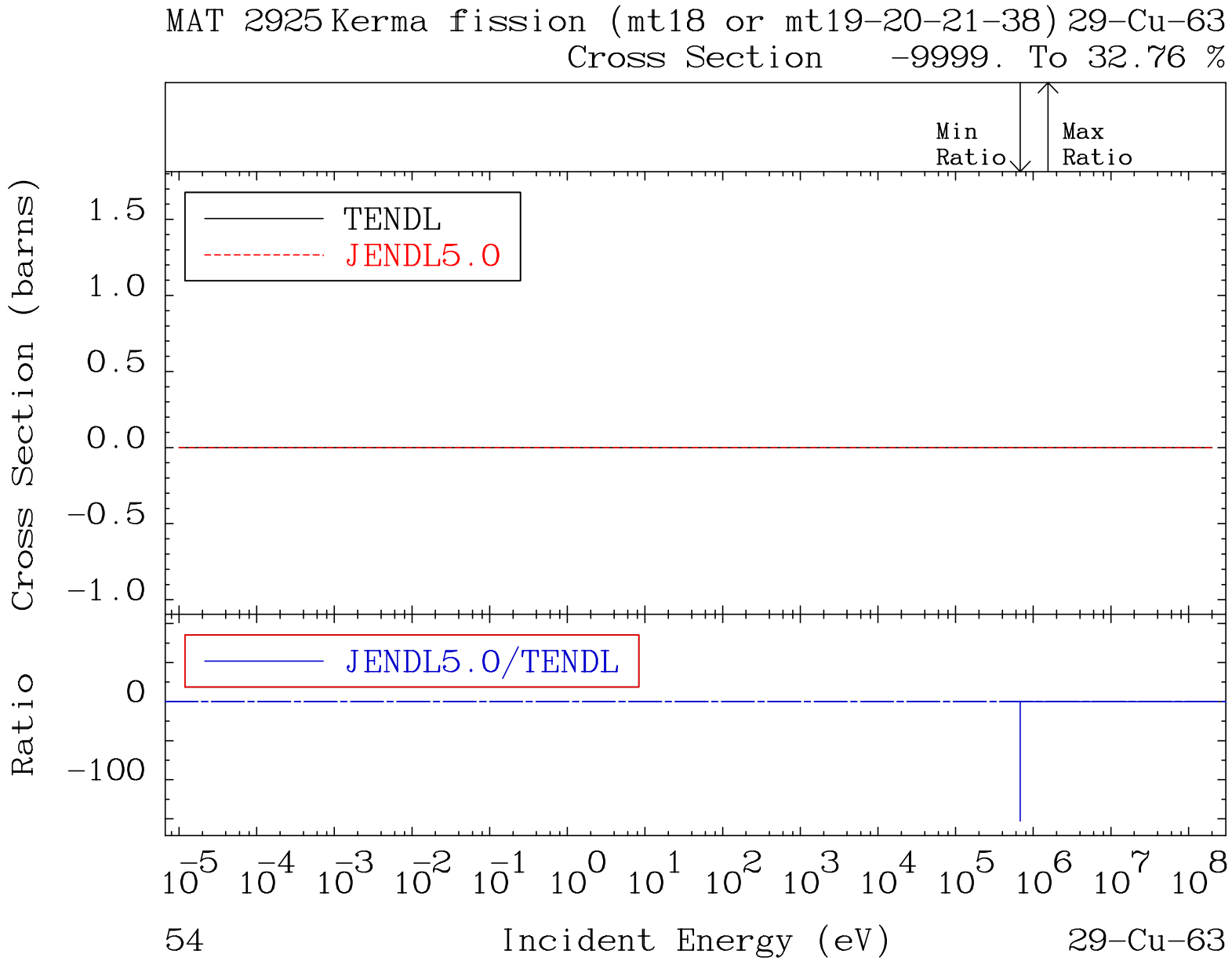

MAT 2925
He-4 Production
Cross Section
29-Cu-63
-86.64 To 535.9 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
29-Cu-63

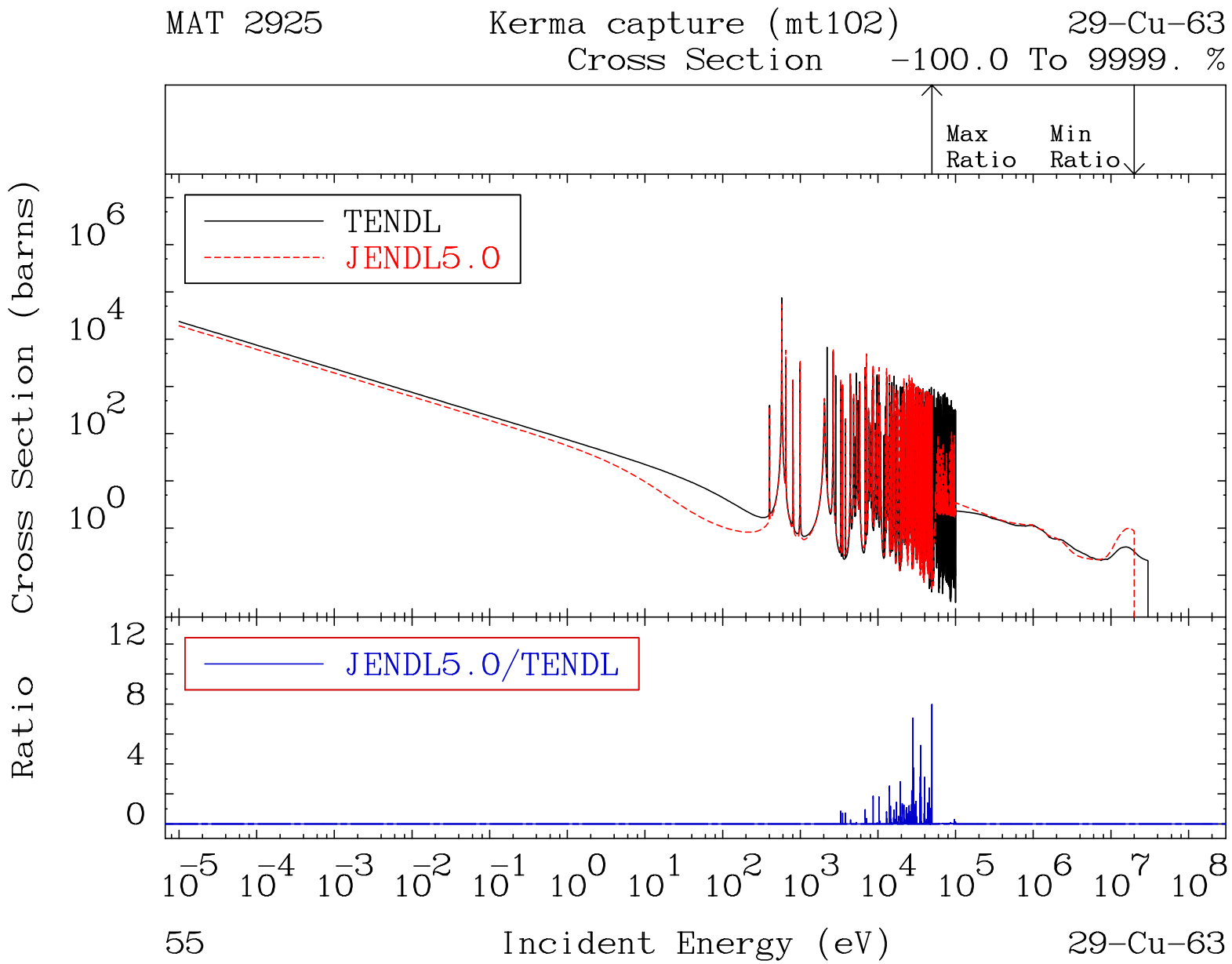

MAT 2925
Kerma total (eV-barns)
29-Cu-63
Cross Section -98.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
50
29-Cu-63

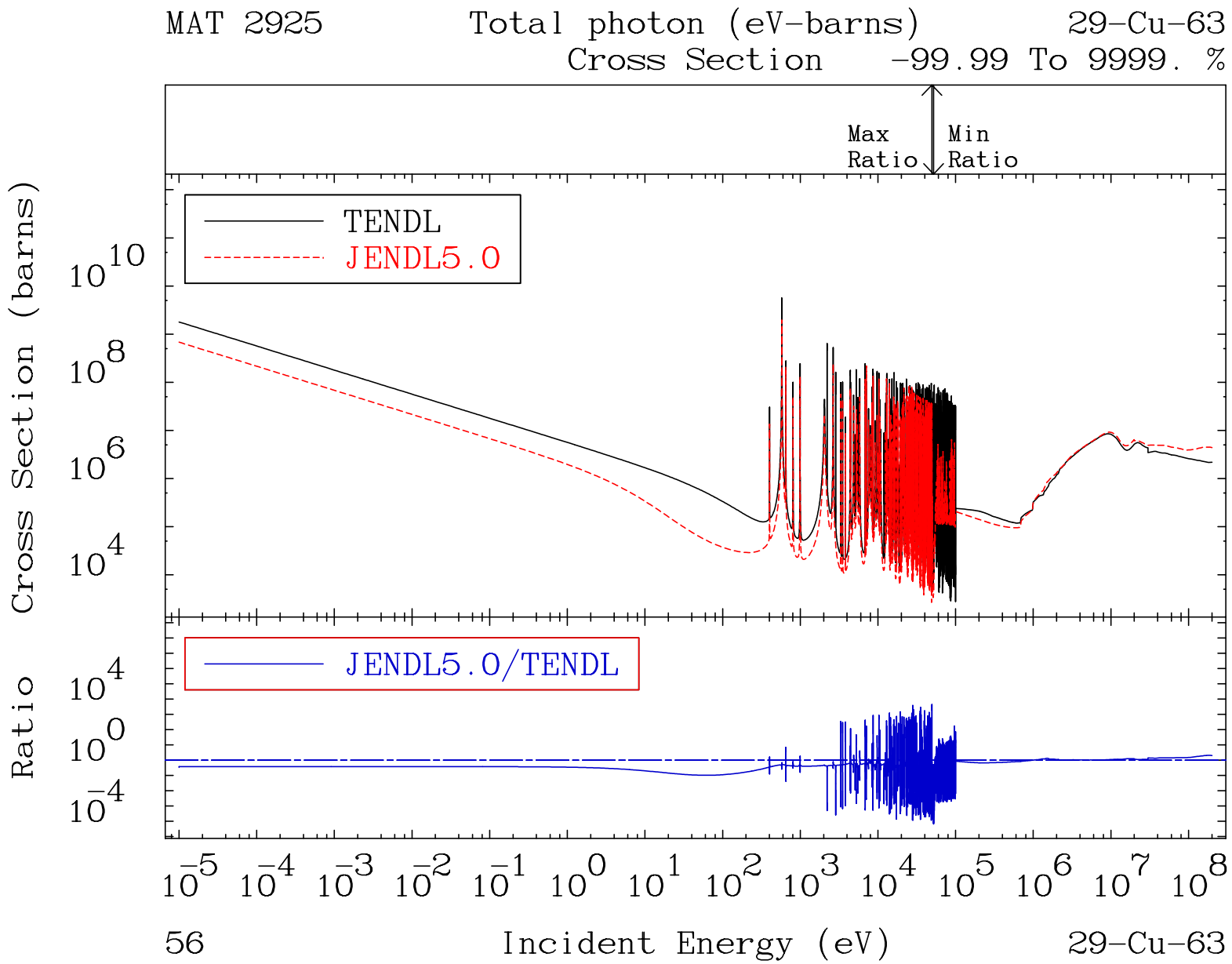

MAT 2925
Kerma elastic
Cross Section
29-Cu-63
-98.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
29-Cu-63

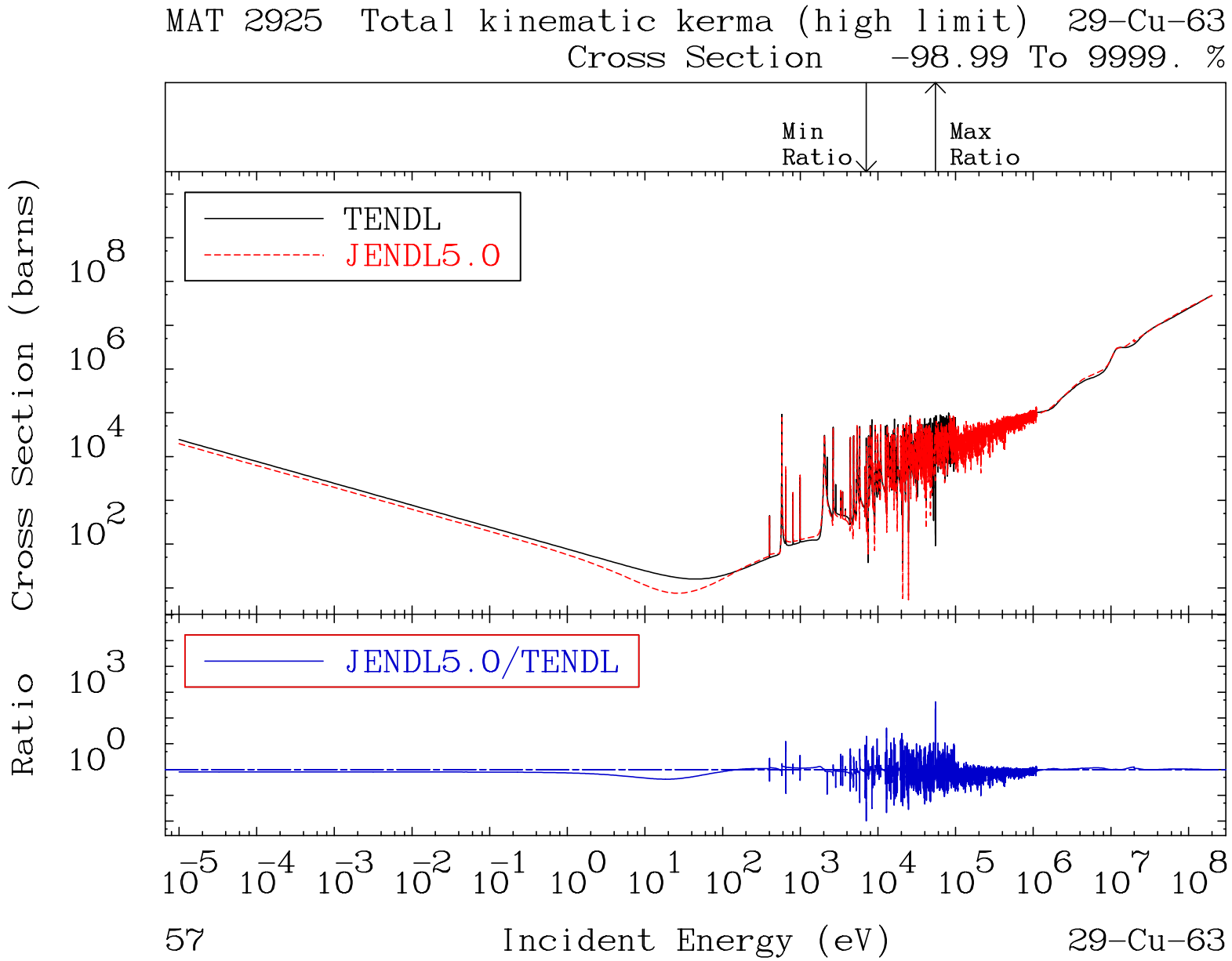

MAT 2925 Kerma non-elastic (all but mt2) 29-Cu-63
Cross Section -99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
29-Cu-63

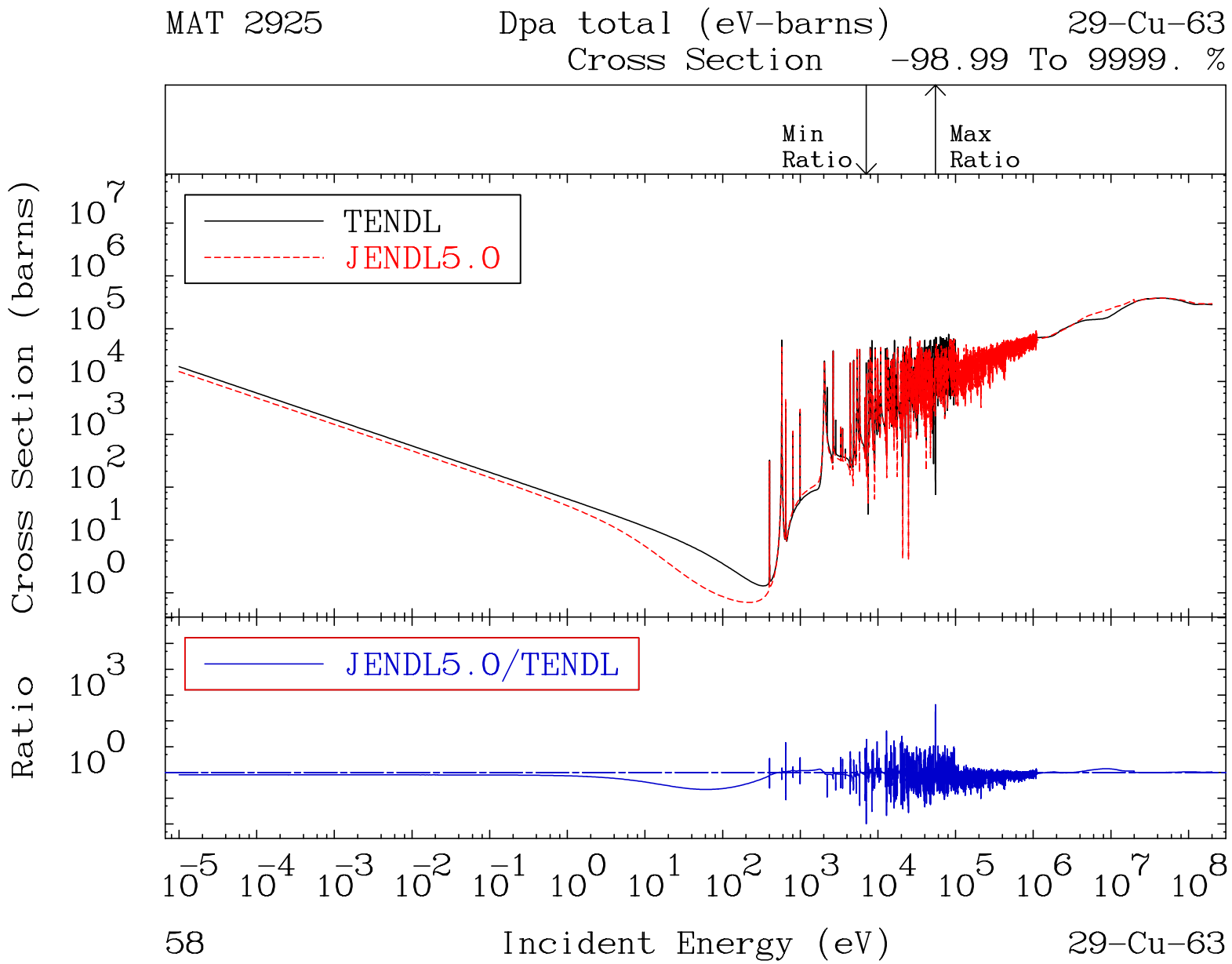

MAT 2925
Kerma inelastic (mt51-91)
29-Cu-63
Cross Section -9999. To 32.76 %
Min Ratio
Max Ratio
TENDL Threshold 680.67 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
29-Cu-63

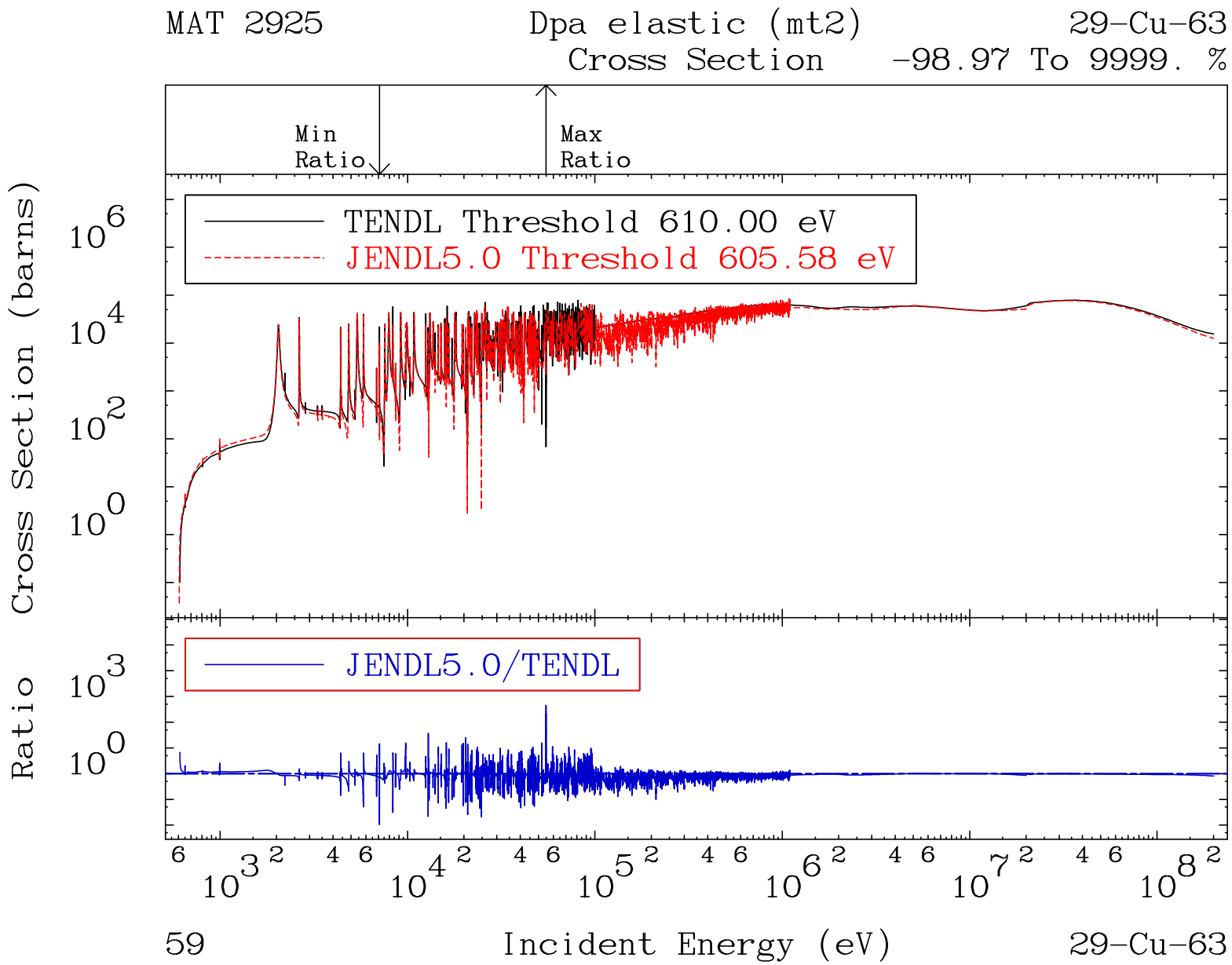

MAT 2925 Kerma fission (mt18 or mt19-20-21-38) 29-Cu-63
Cross Section -9999. To 32.76 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0
-100
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
54
Incident Energy (eV)
29-Cu-63

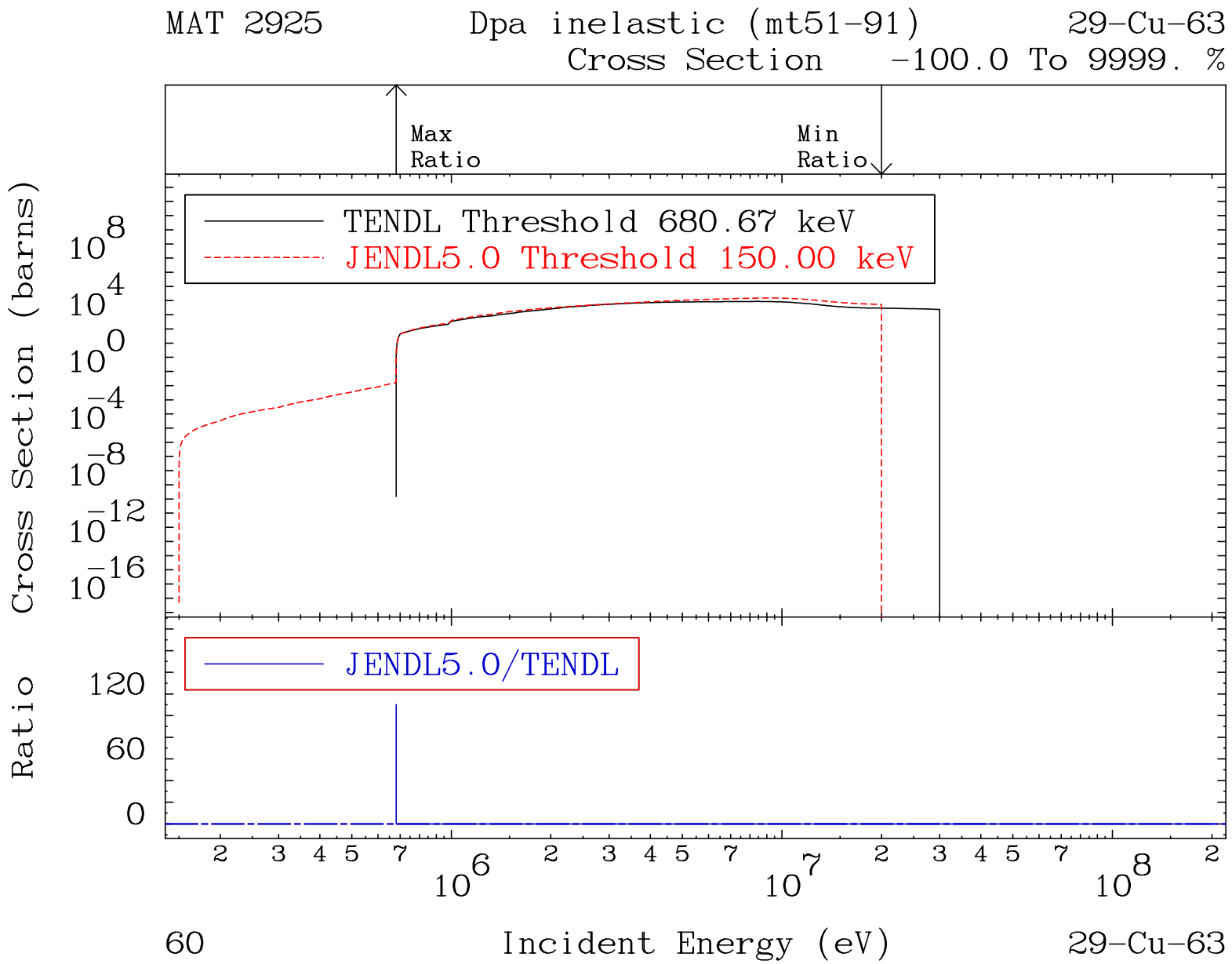

MAT 2925
Kerma capture (mt102)
29-Cu-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
29-Cu-63

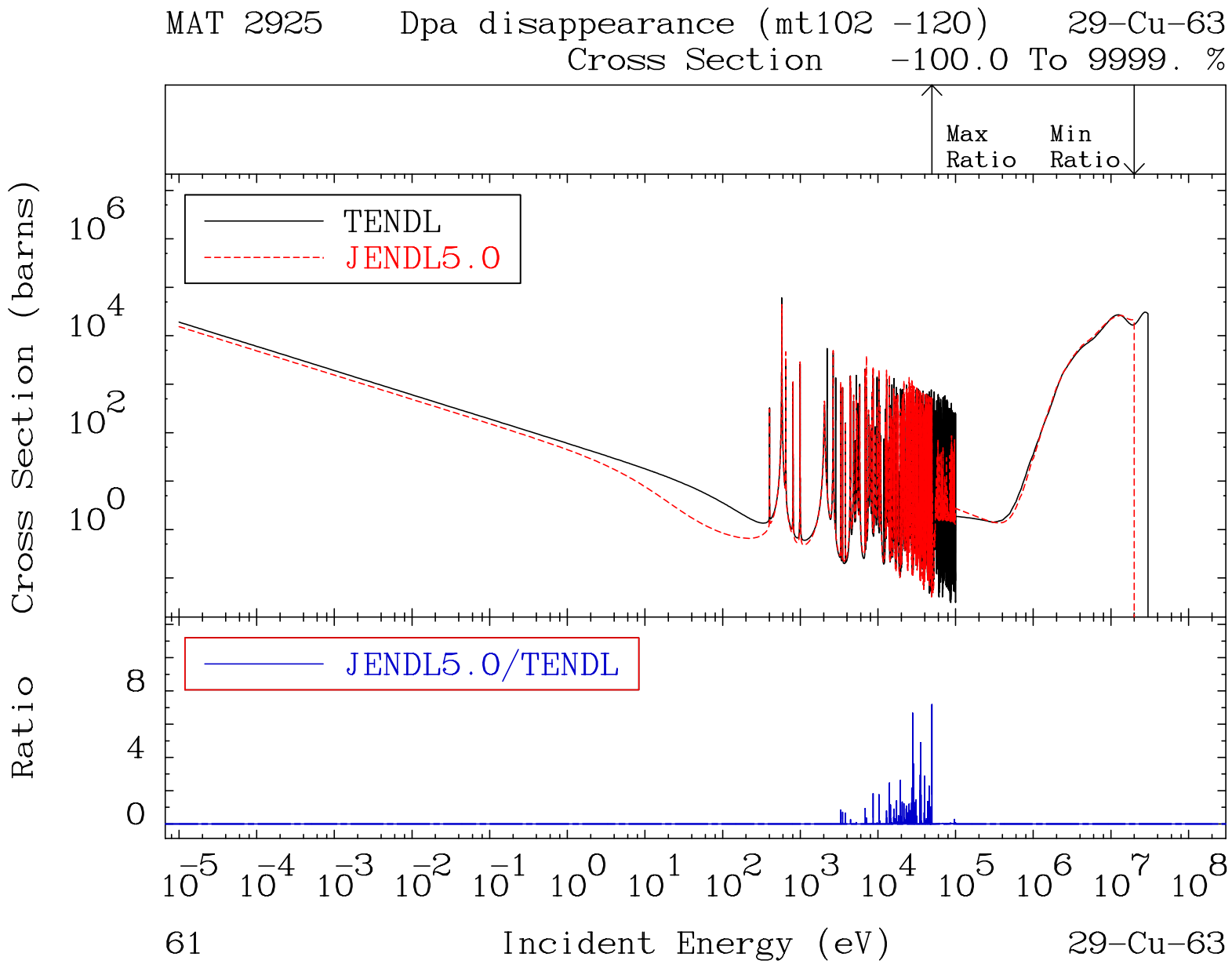

MAT 2925
Total photon (eV-barns)
29-Cu-63
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
29-Cu-63

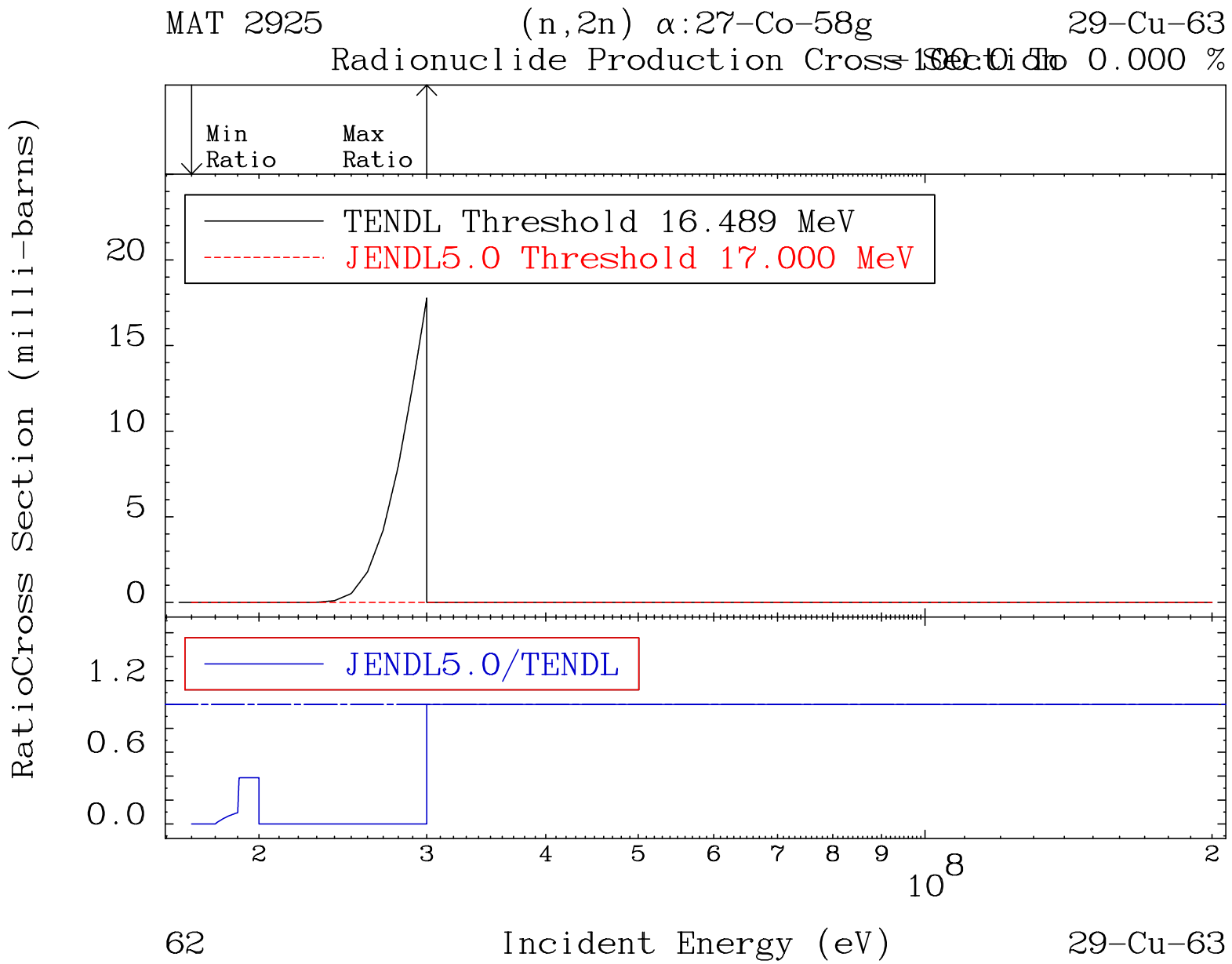

MAT 2925 Total kinematic kerma (high limit) 29-Cu-63
Cross Section -98.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
57
29-Cu-63

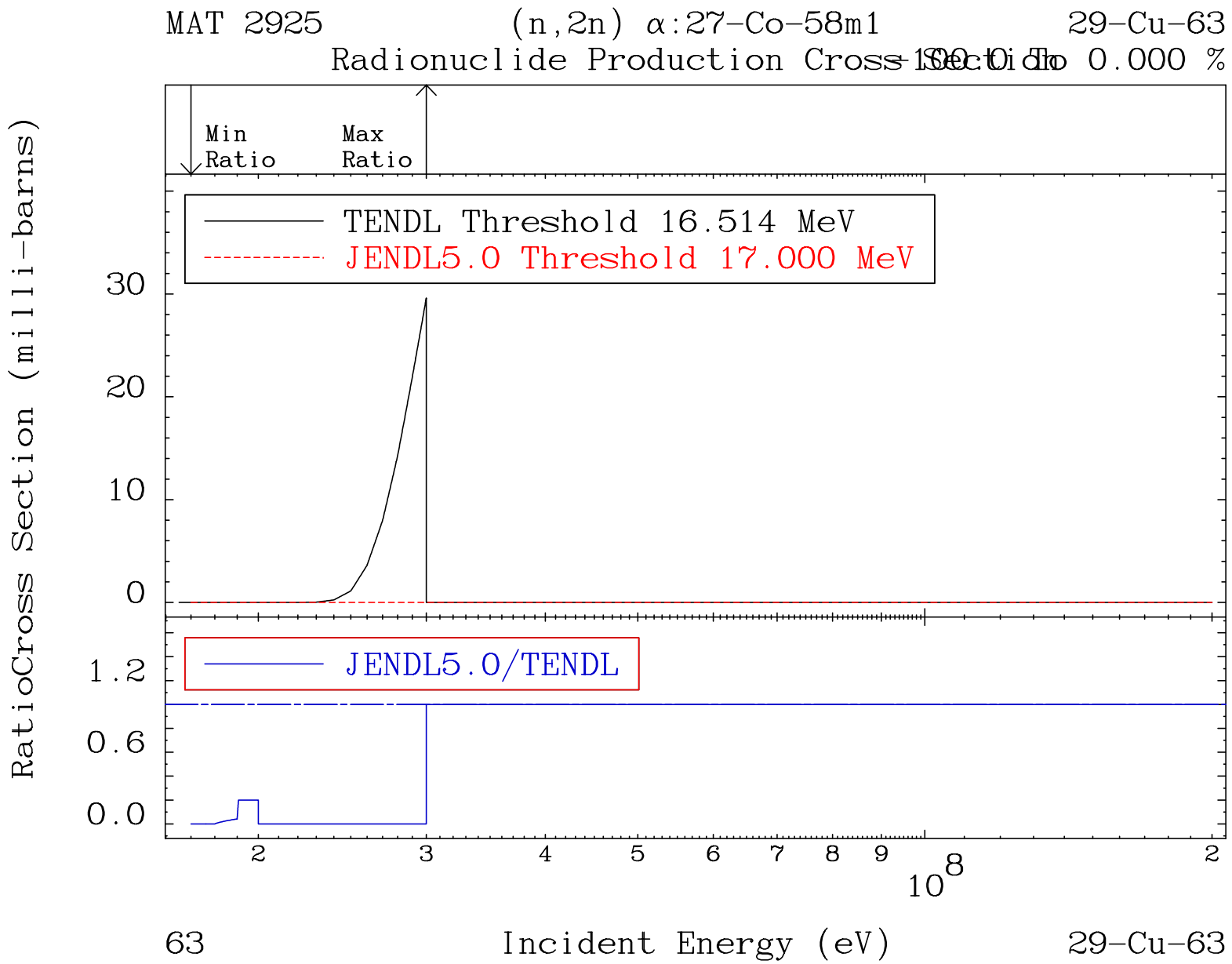

MAT 2925
Dpa total (eV-barns)
29-Cu-63
Cross Section
-98.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
58
Incident Energy (eV)
29-Cu-63

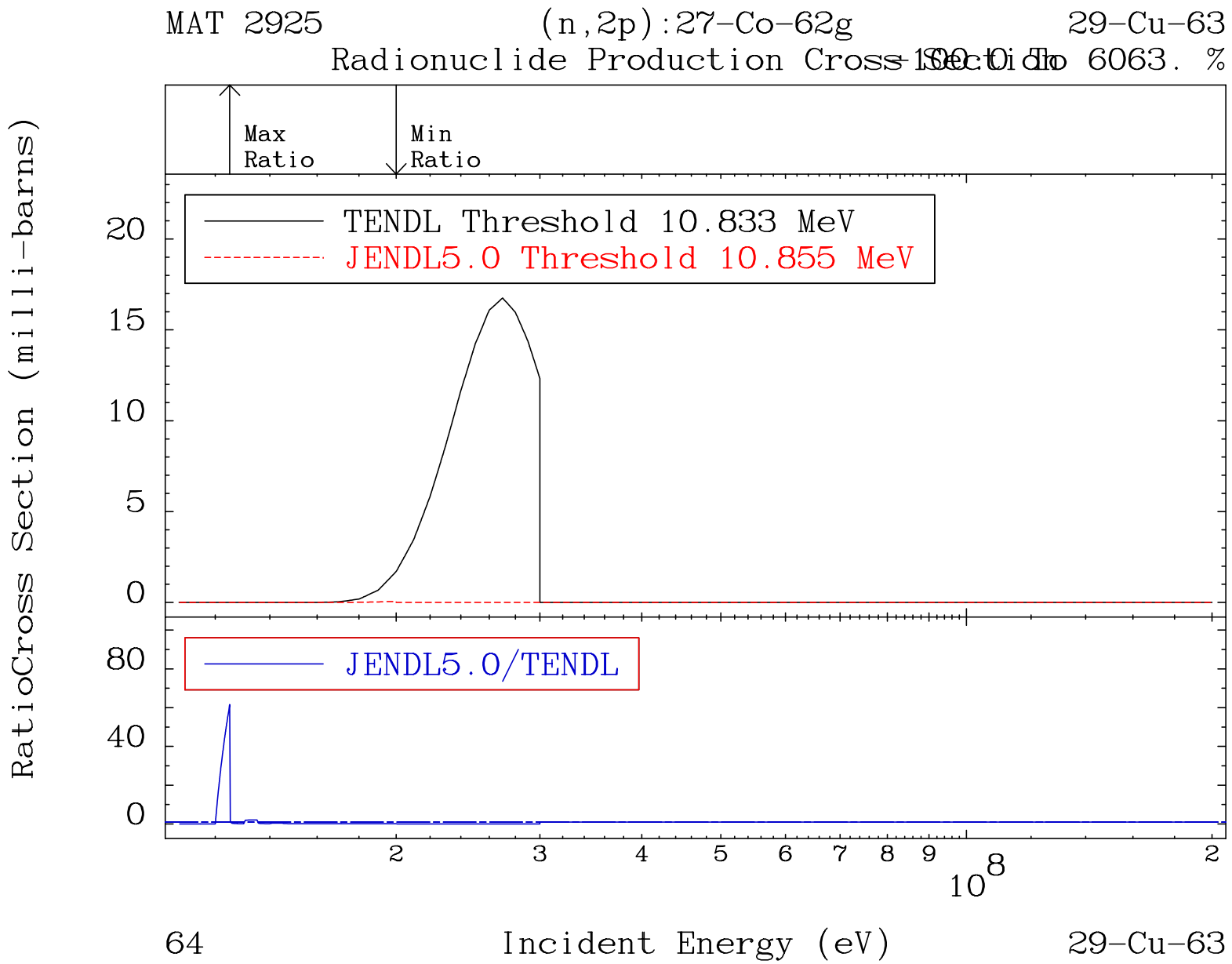

MAT 2925
Dpa elastic (mt2)
Cross Section
29-Cu-63
-98.97 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 610.00 eV
JENDL5.0 Threshold 605.58 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
29-Cu-63

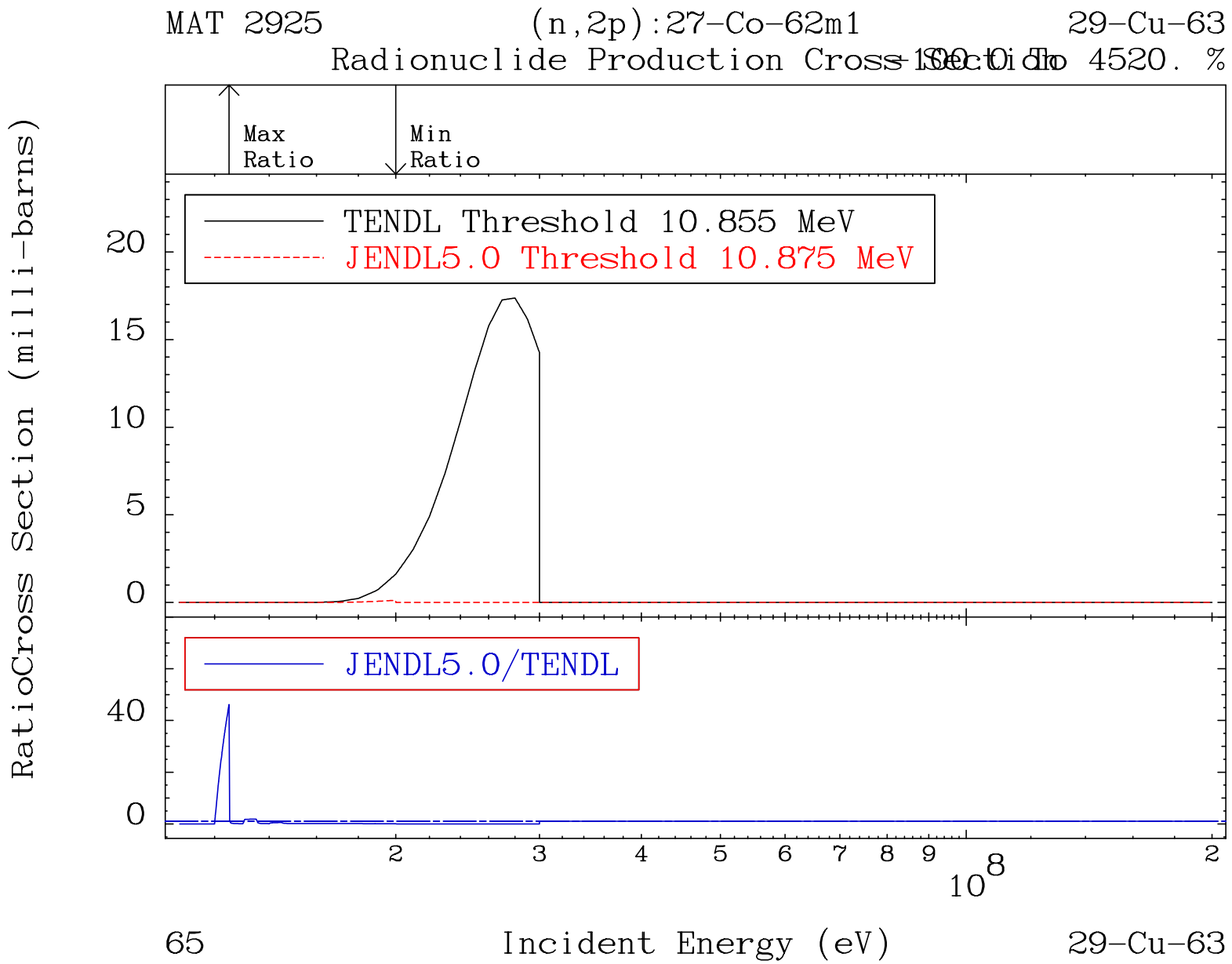

MAT 2925
Dpa inelastic (mt51-91)
29-Cu-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 680.67 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
29-Cu-63

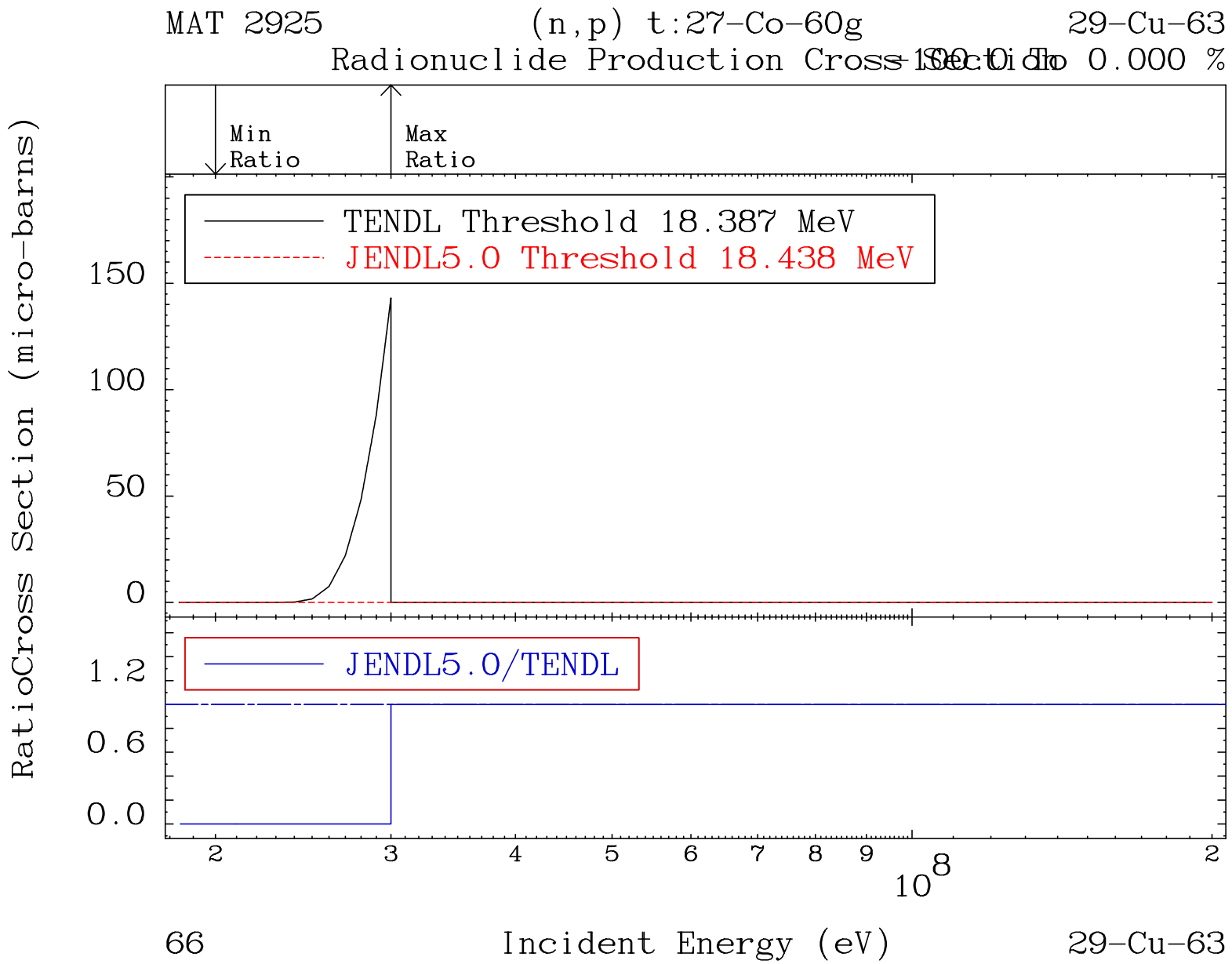

MAT 2925 Dpa disappearance (mt102 -120) 29-Cu-63
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
29-Cu-63

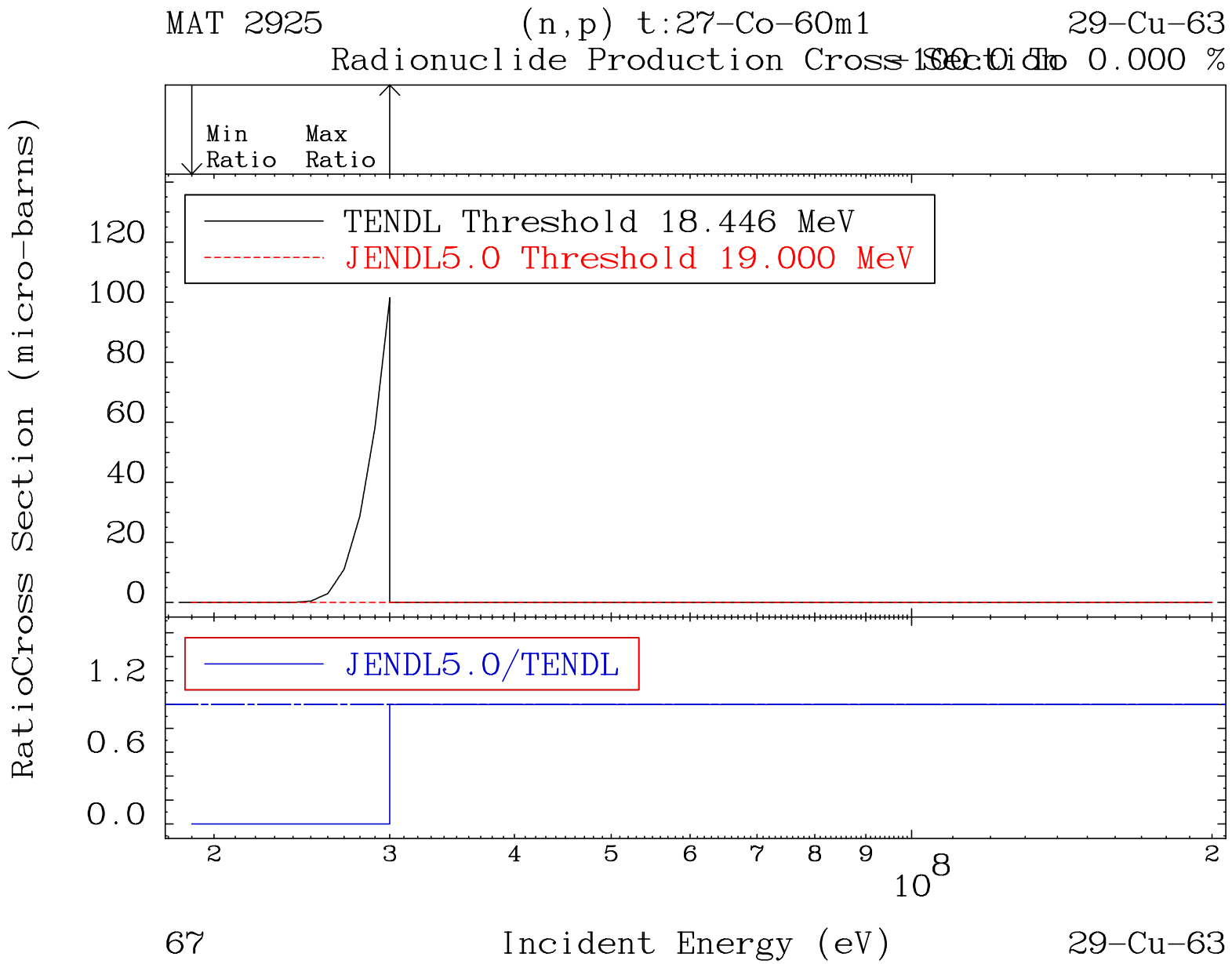

MAT 2925
(n,2n) α:27-Co-58g
29-Cu-63
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 16.489 MeV
JENDL5.0 Threshold 17.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
62
29-Cu-63


MAT 2925
(n,2n) α:27-Co-58m1
29-Cu-63
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.514 MeV
JENDL5.0 Threshold 17.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
29-Cu-63


MAT 2925
(n,2p):27-Co-62g
29-Cu-63
Radionuclide Production Cross Section To 6063. %
Max Ratio
Min Ratio
TENDL Threshold 10.833 MeV
JENDL5.0 Threshold 10.855 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
64
Incident Energy (eV)
29-Cu-63


MAT 2925
(n,2p):27-Co-62m1
29-Cu-63
Radionuclide Production Cross Section
Max Ratio = 1.000 Min Ratio = 4520. %
Max
Ratio
Min
Ratio
TENDL Threshold 10.855 MeV
JENDL5.0 Threshold 10.875 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
40
0
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
29-Cu-63


MAT 2925
(n,p) t:27-Co-60g
29-Cu-63
Radionuclide Production Cross Section
-1SD Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.387 MeV
JENDL5.0 Threshold 18.438 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
66
Incident Energy (eV)
29-Cu-63


MAT 2925
(n,p) t:27-Co-60m1
29-Cu-63
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.446 MeV
JENDL5.0 Threshold 19.000 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
67
Incident Energy (eV)
29-Cu-63