Program Complot
(Version 2018-1)
by
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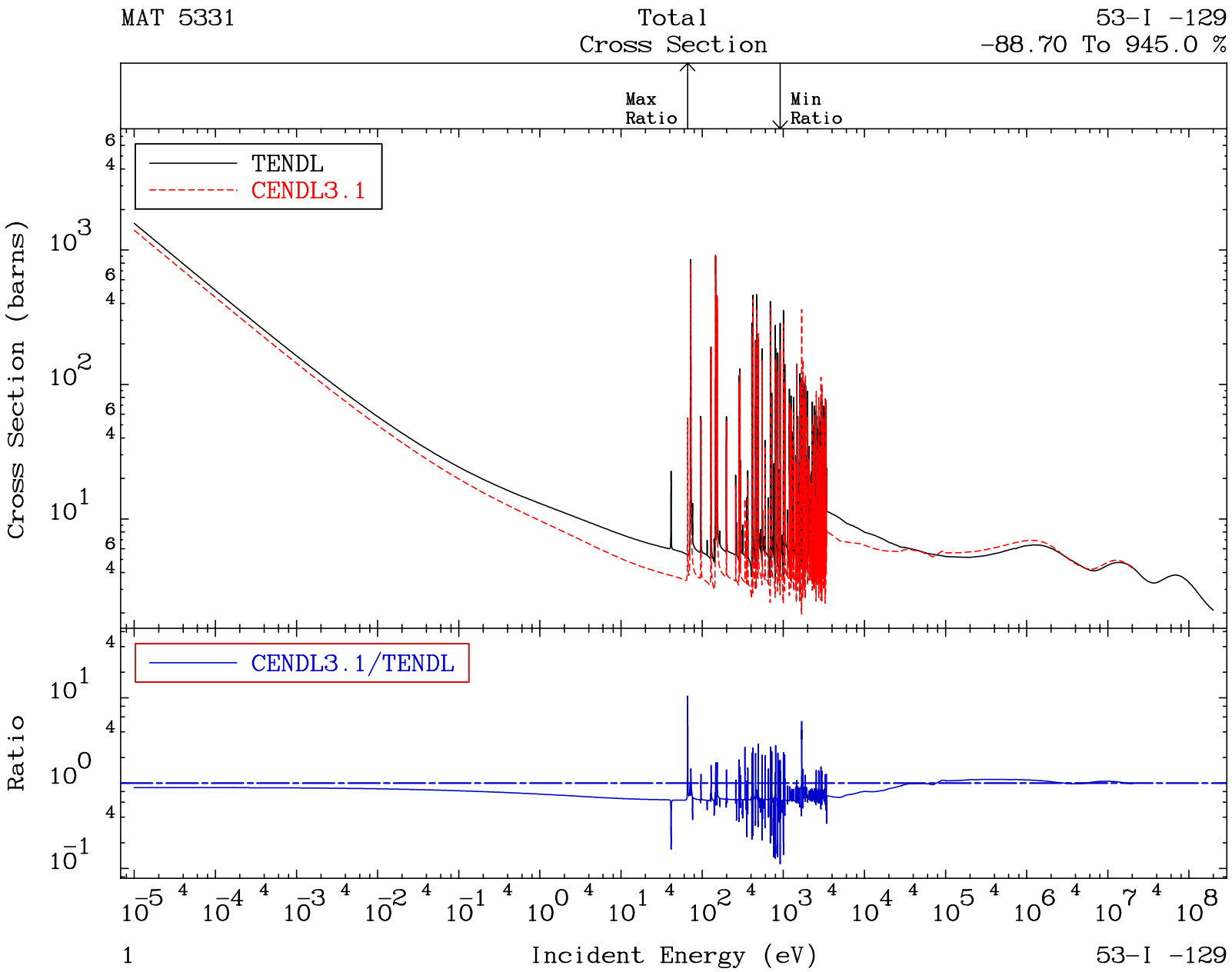
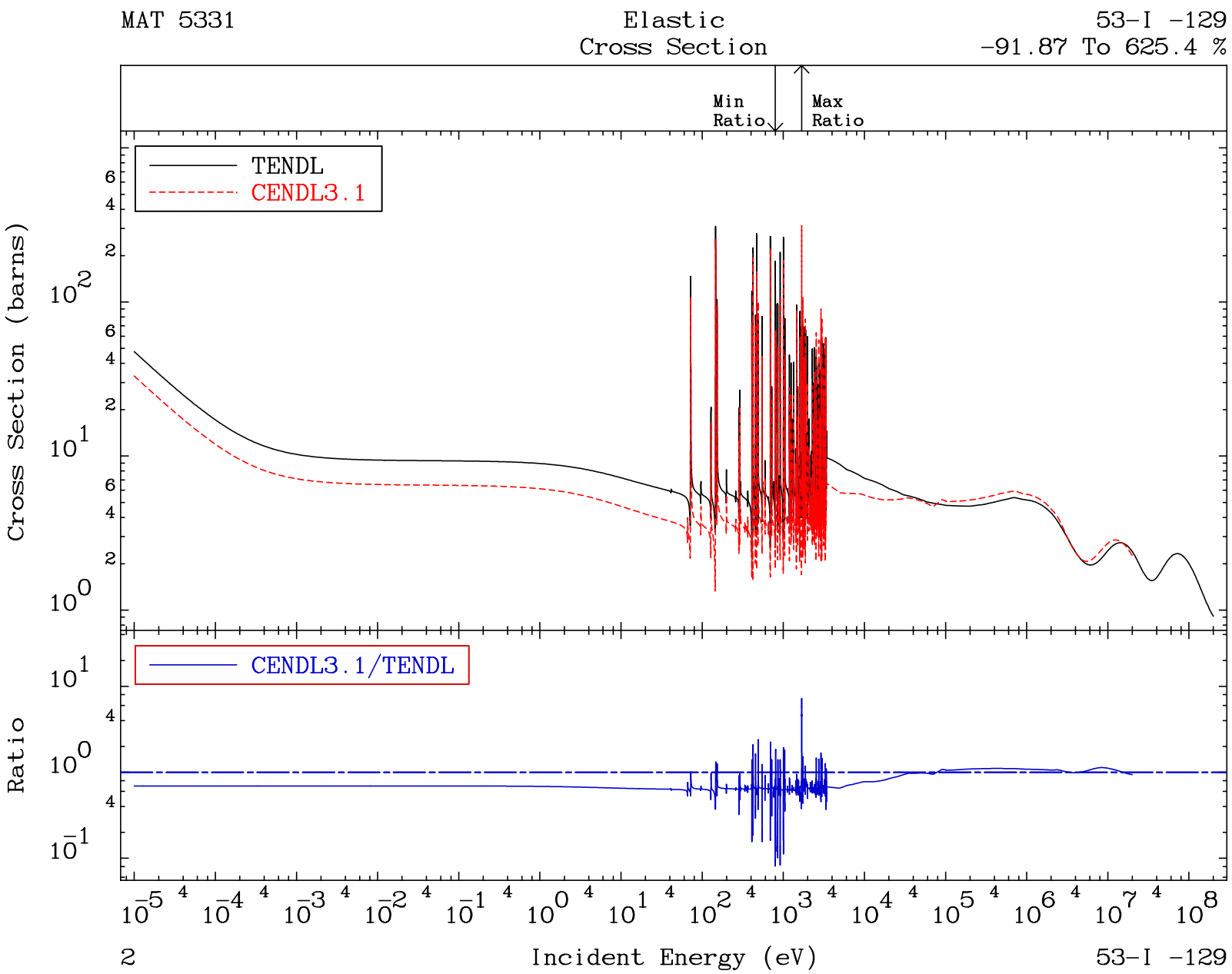
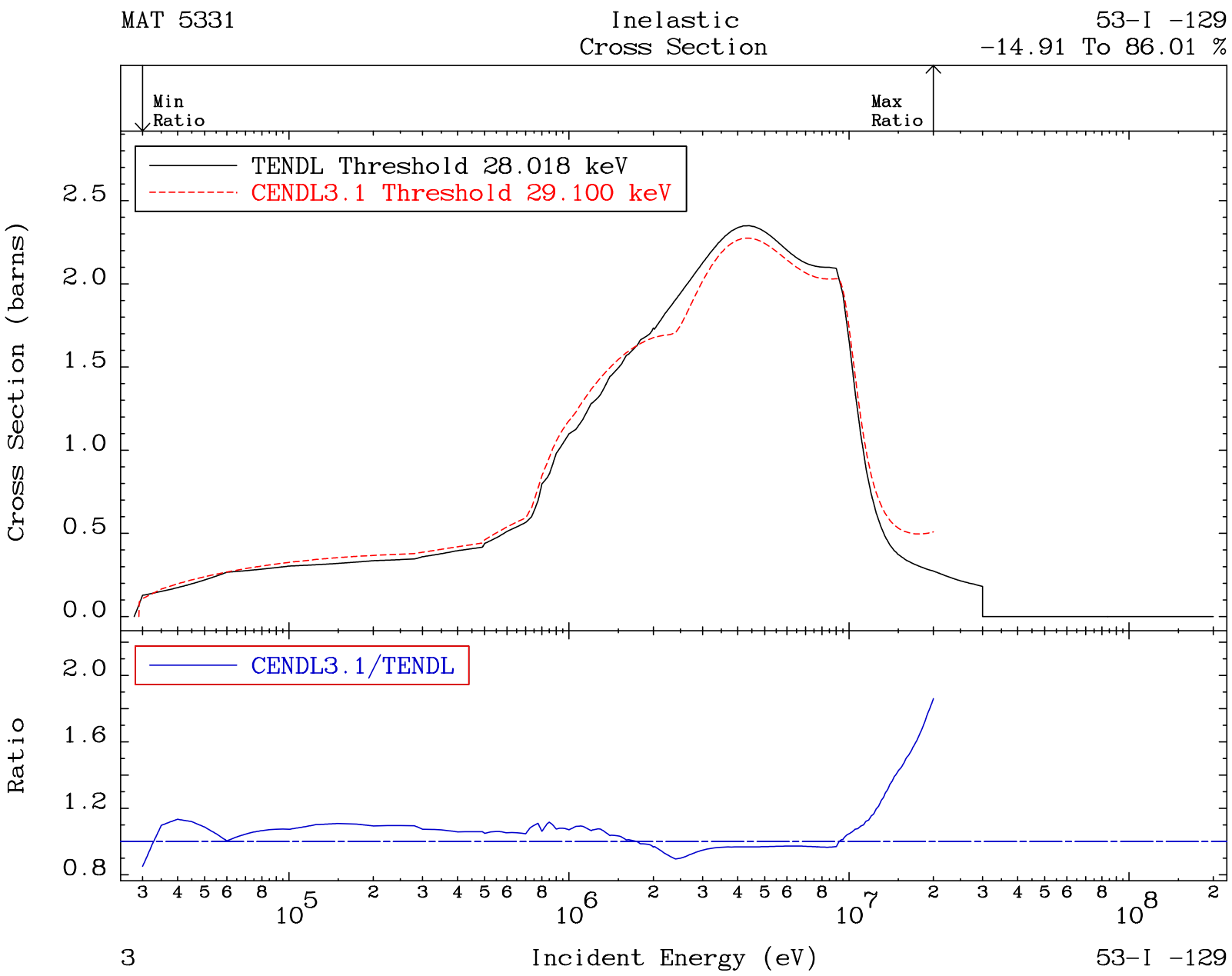
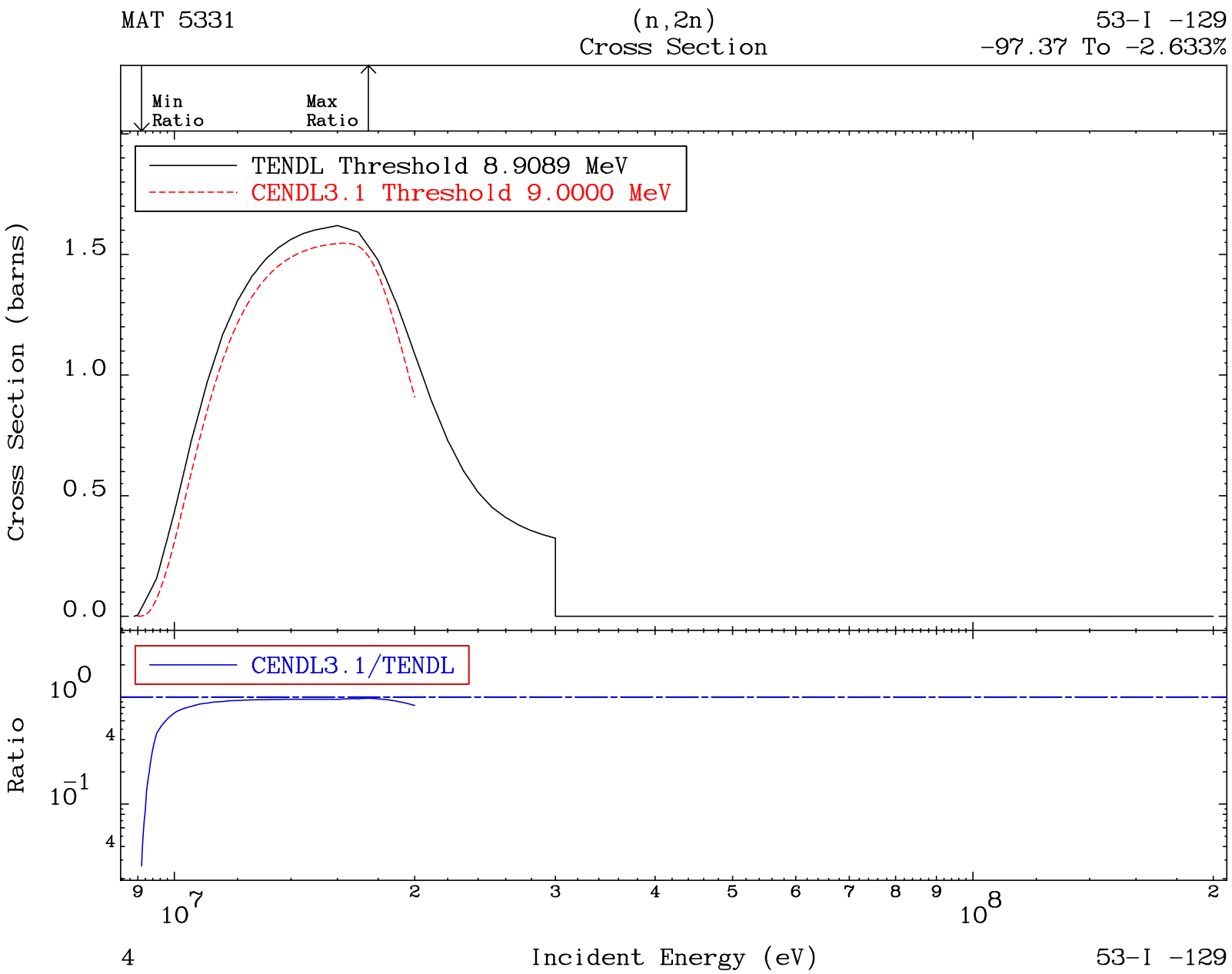
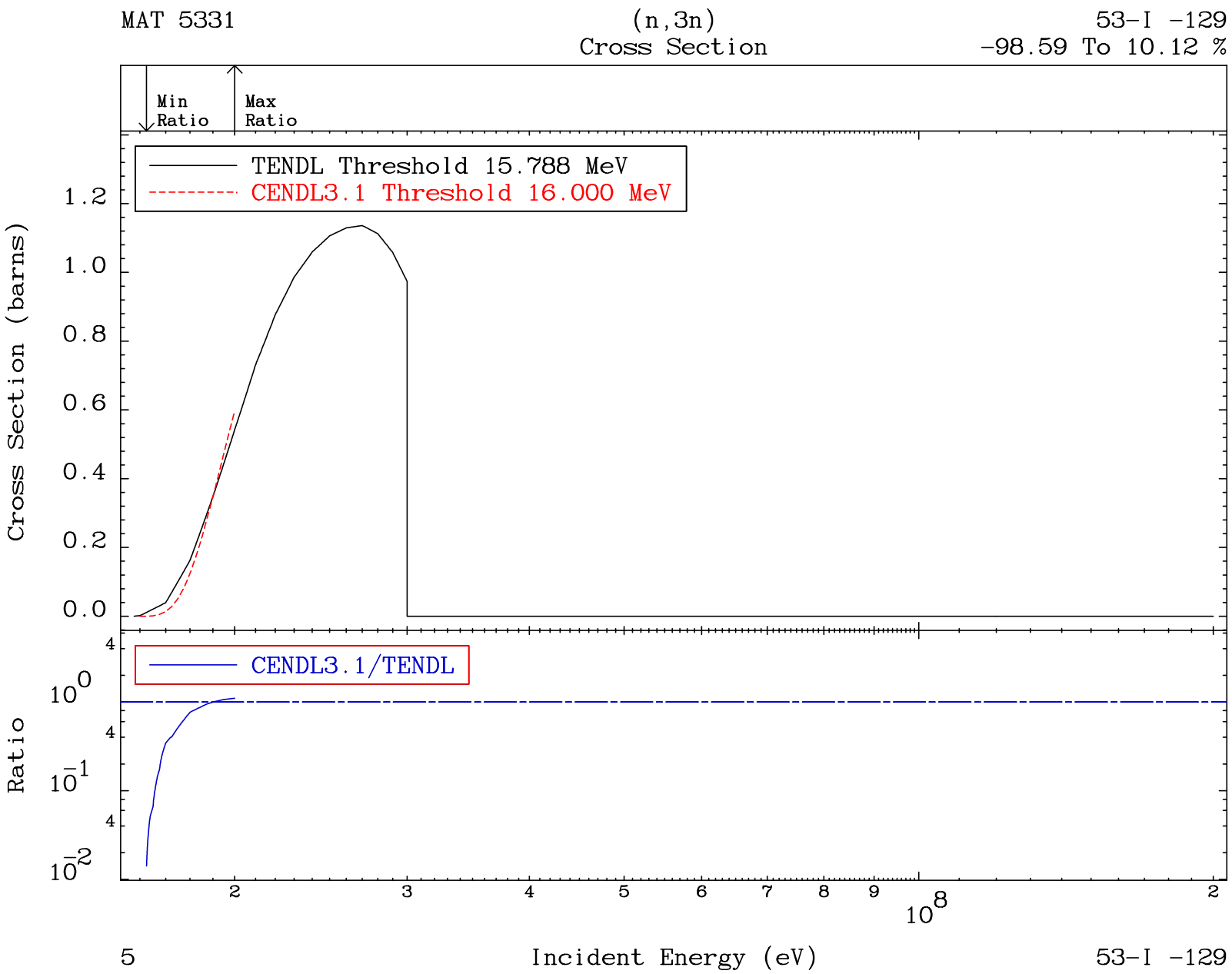
Press Mouse Button to Start

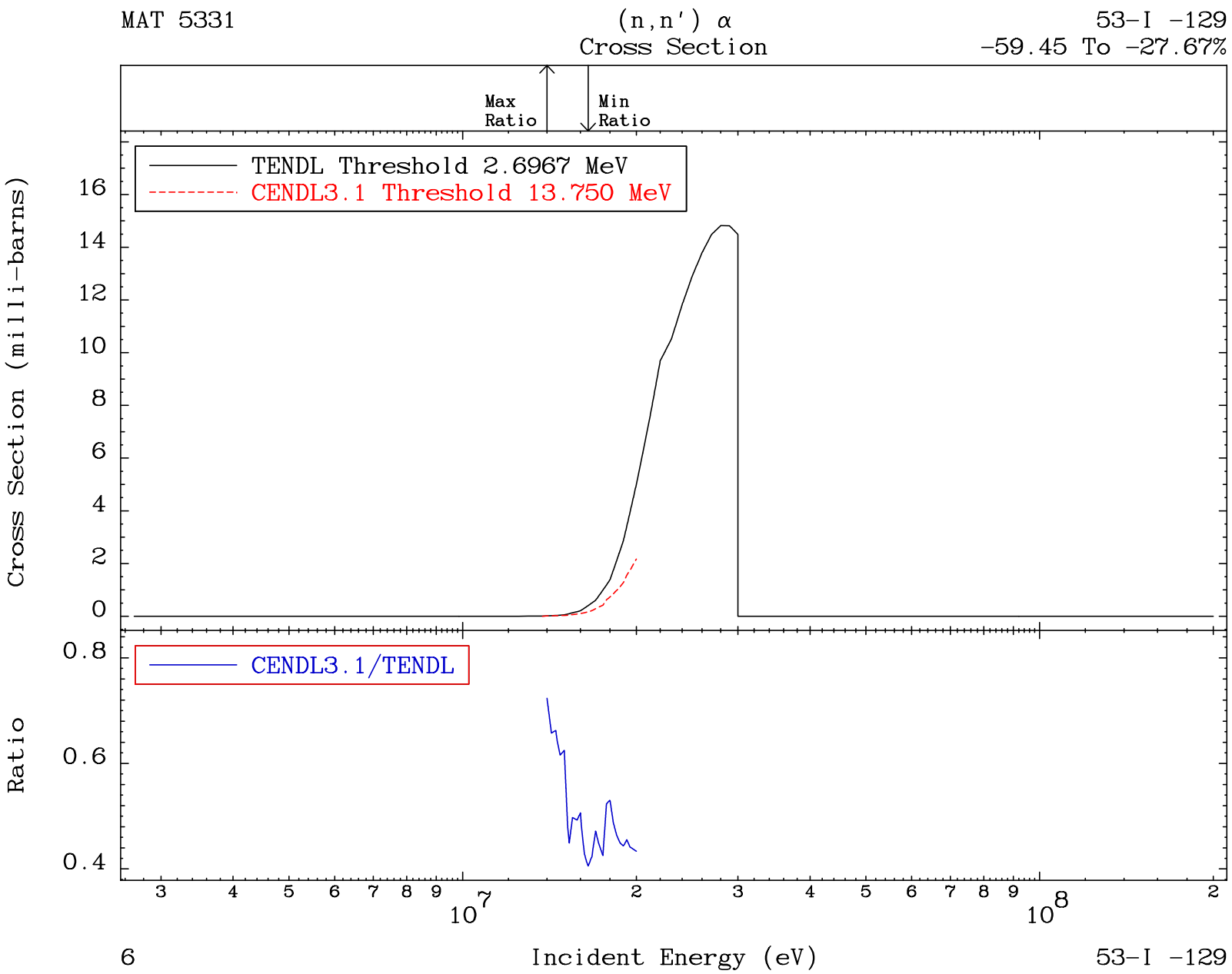

MAT 5331
Total
Cross Section
53-I -129
-88.70 To 945.0 %
Max
Ratio
Min
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
1
53-I -129

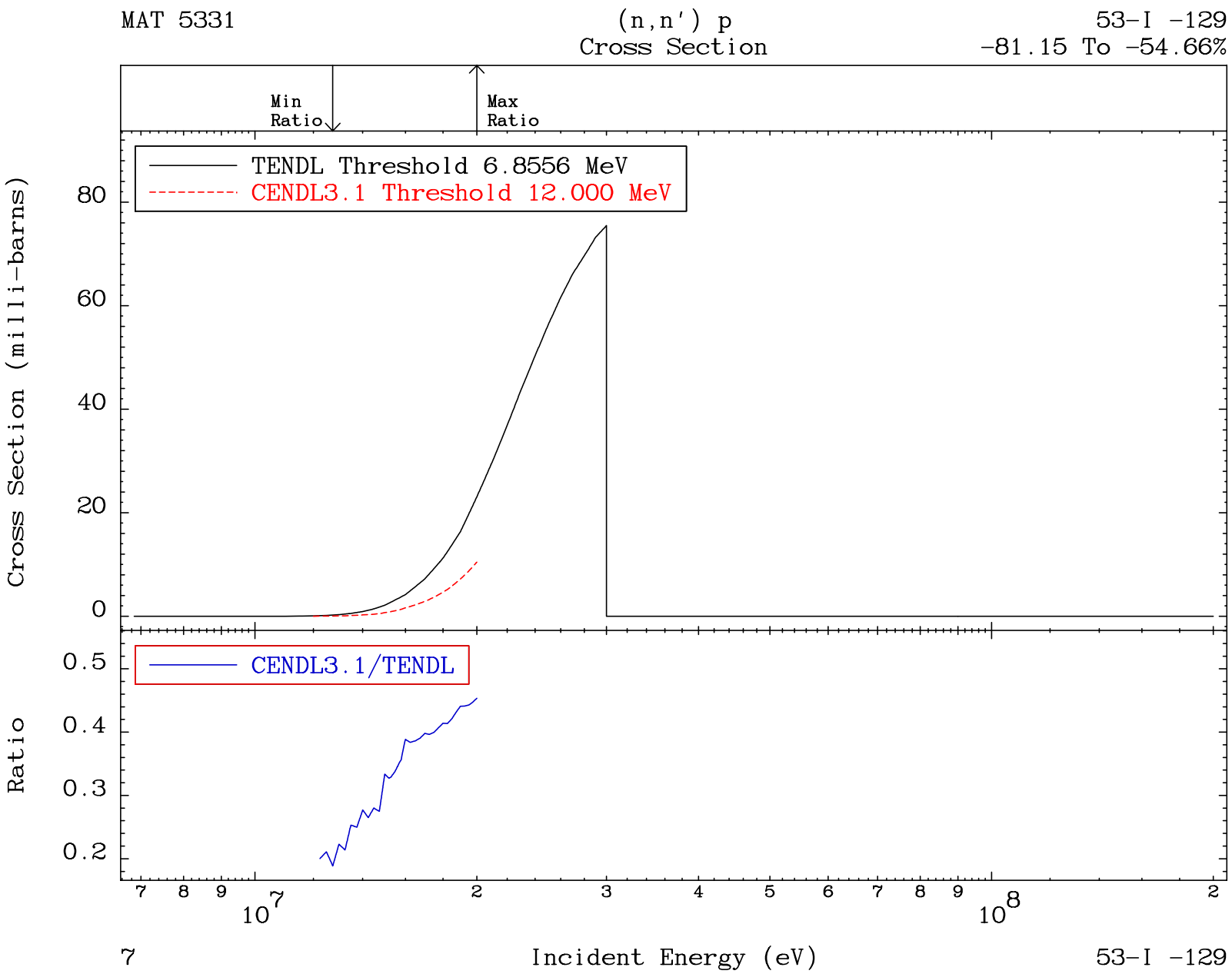

MAT 5331
Elastic
Cross Section
53-I -129
-91.87 To 625.4 %
Min
Ratio
Max
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
2
53-I -129

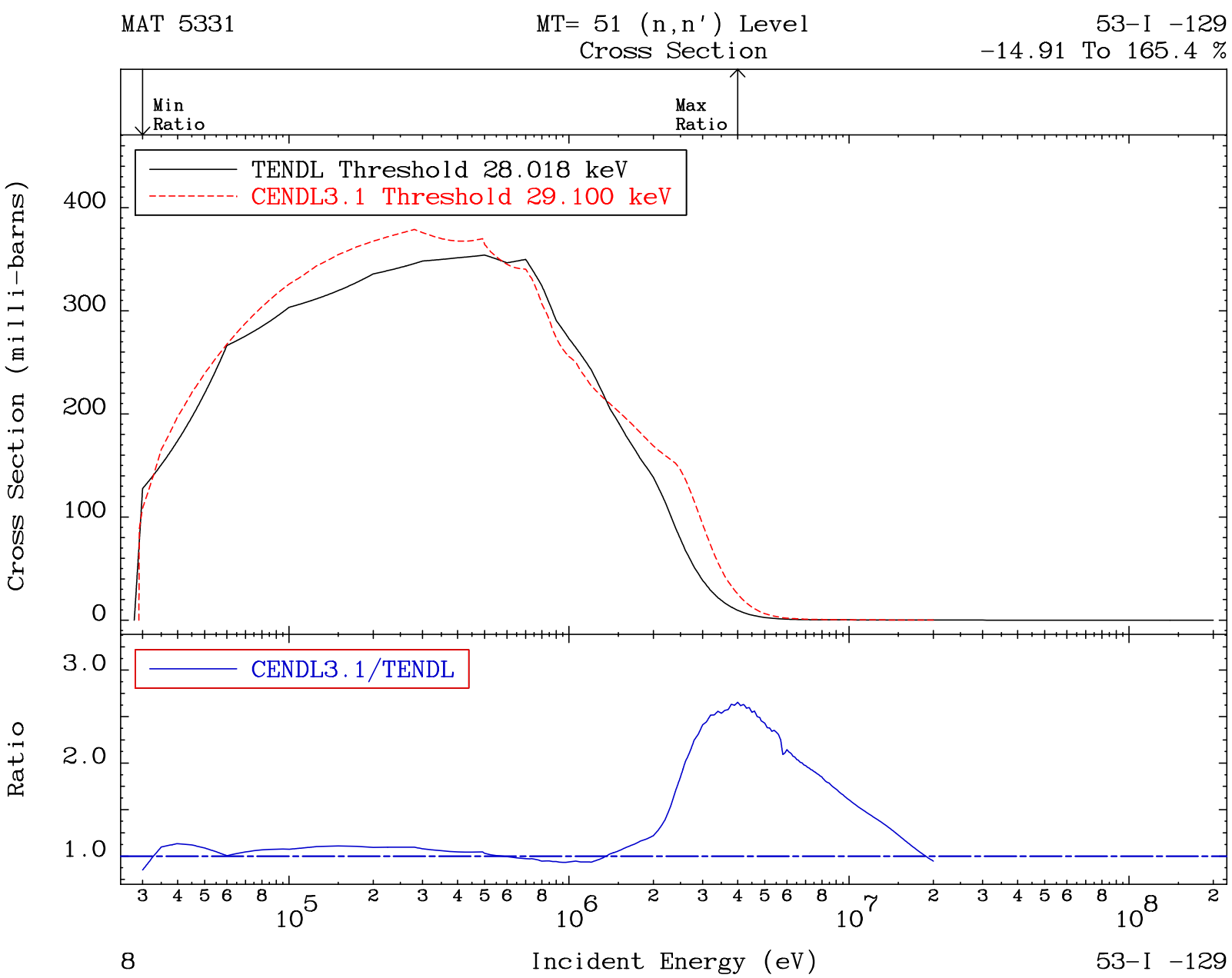

MAT 5331
Inelastic
Cross Section
53-I -129
-14.91 To 86.01 %
Min
Ratio
Max
Ratio
TENDL Threshold 28.018 keV
CENDL3.1 Threshold 29.100 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
2.0
1.6
1.2
0.8
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
53-I -129

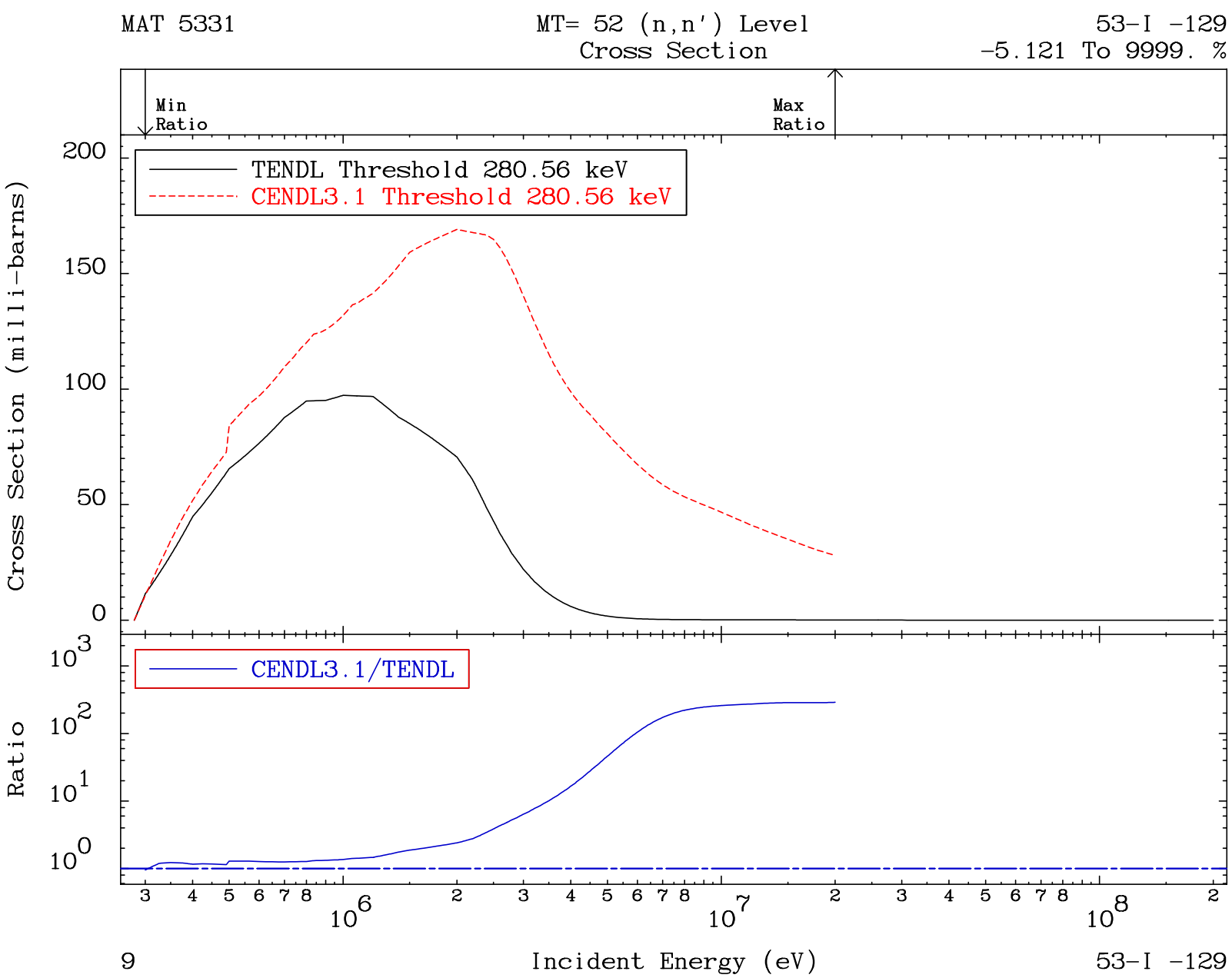

MAT 5331
(n,2n)
Cross Section
53-I -129
-97.37 To -2.633%
Min Ratio
Max Ratio
TENDL Threshold 8.9089 MeV
CENDL3.1 Threshold 9.0000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
53-I -129

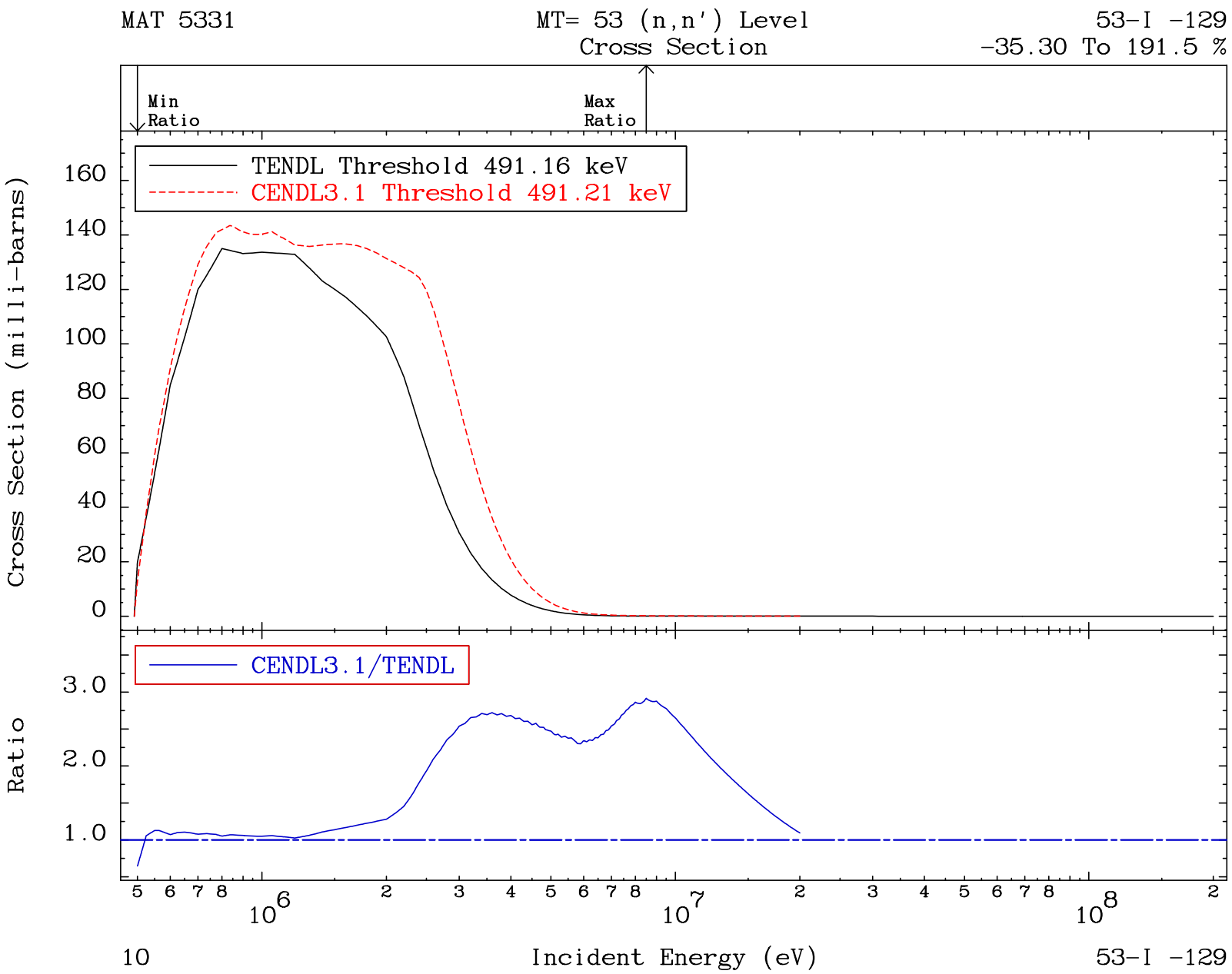

MAT 5331
(n,3n)
Cross Section
53-I -129
-98.59 To 10.12 %
Min Ratio
Max Ratio
TENDL Threshold 15.788 MeV
CENDL3.1 Threshold 16.000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
53-I -129

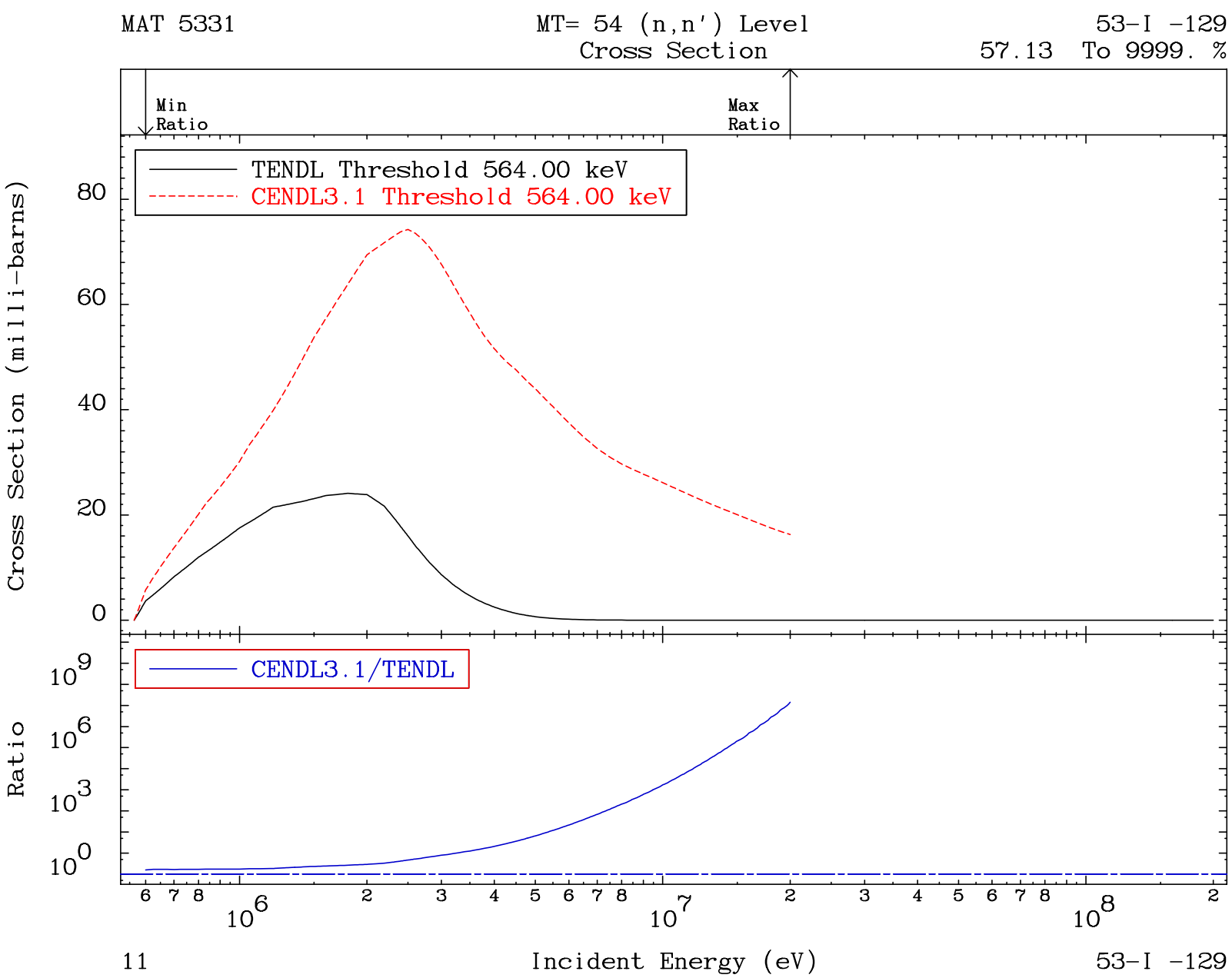

MAT 5331
(n,n') α
Cross Section
53-I -129
-59.45 To -27.67%
Max Ratio
Min Ratio
TENDL Threshold 2.6967 MeV
CENDL3.1 Threshold 13.750 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
CENDL3.1/TENDL
Ratio
0.8
0.6
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
53-I -129

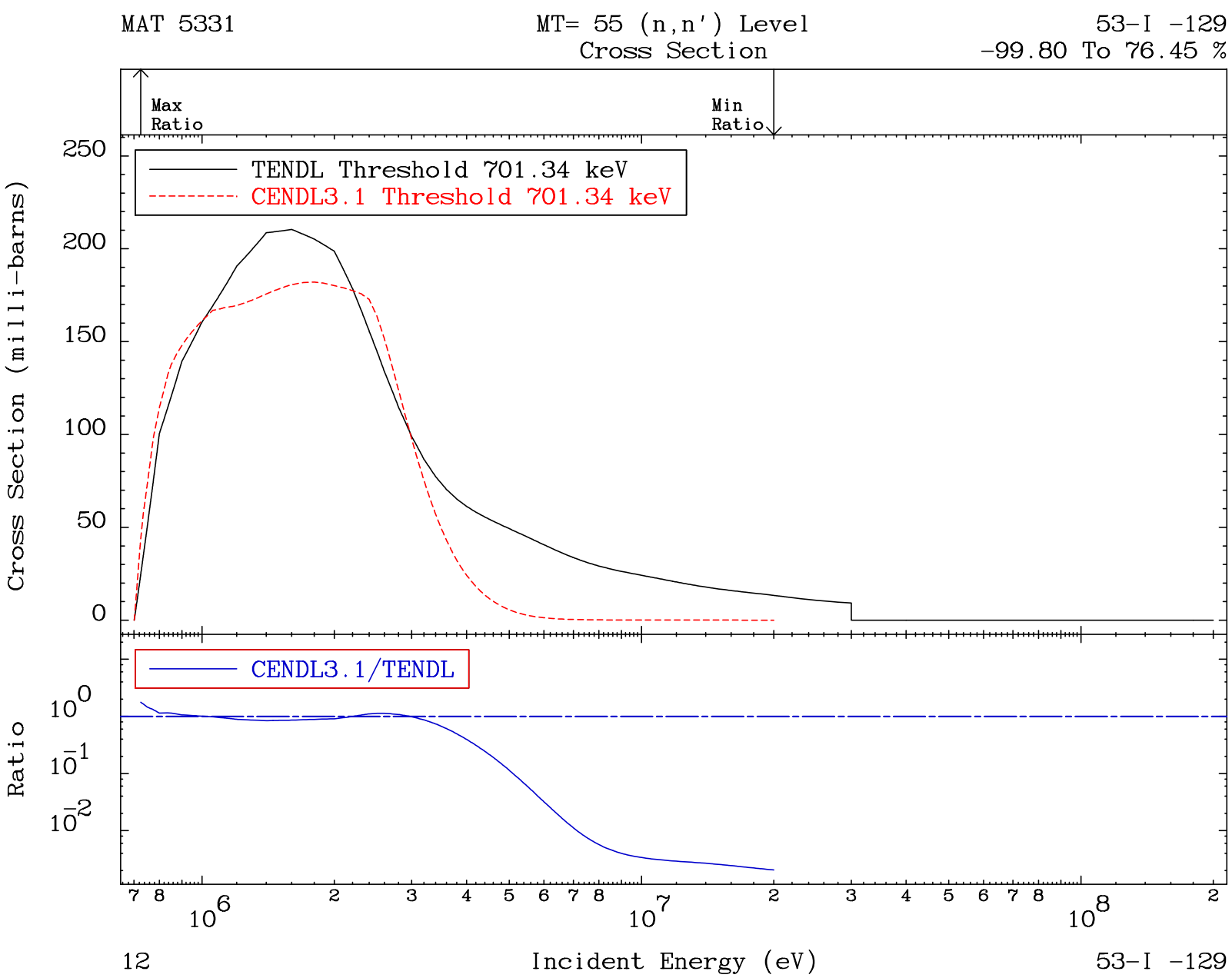

MAT 5331
(n,n') p
Cross Section
53-I -129
-81.15 To -54.66%
Min Ratio
Max Ratio
TENDL Threshold 6.8556 MeV
CENDL3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
80
60
40
20
0
CENDL3.1/TENDL
Ratio
0.5
0.4
0.3
0.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
53-I -129

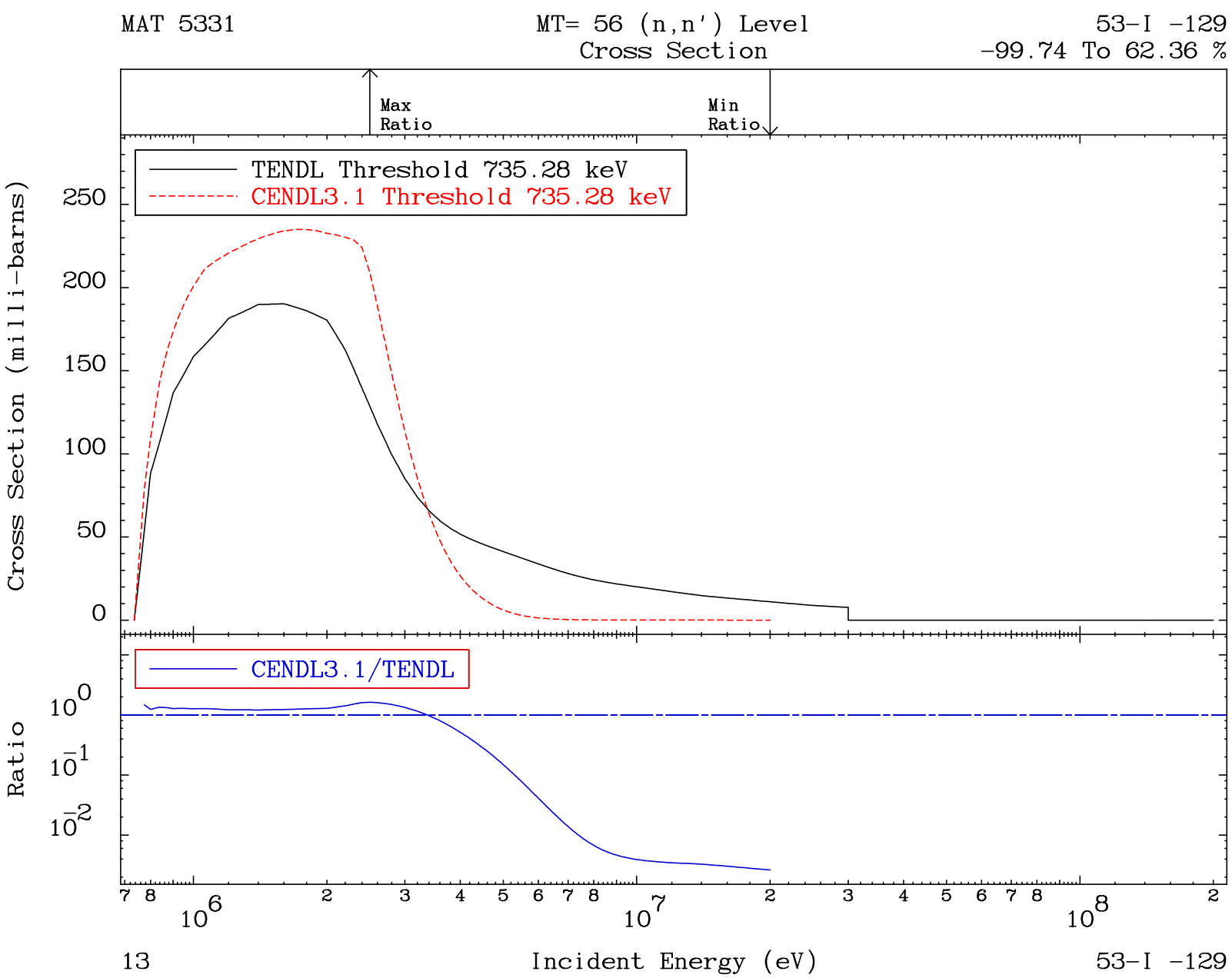

MAT 5331
MT= 51 (n,n') Level
Cross Section
53-I -129
-14.91 To 165.4 %
Min
Ratio
Max
Ratio
TENDL Threshold 28.018 keV
CENDL3.1 Threshold 29.100 keV
Cross Section (milli-barns)
400
300
200
100
0
CENDL3.1/TENDL
Ratio
3.0
2.0
1.0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
53-I -129

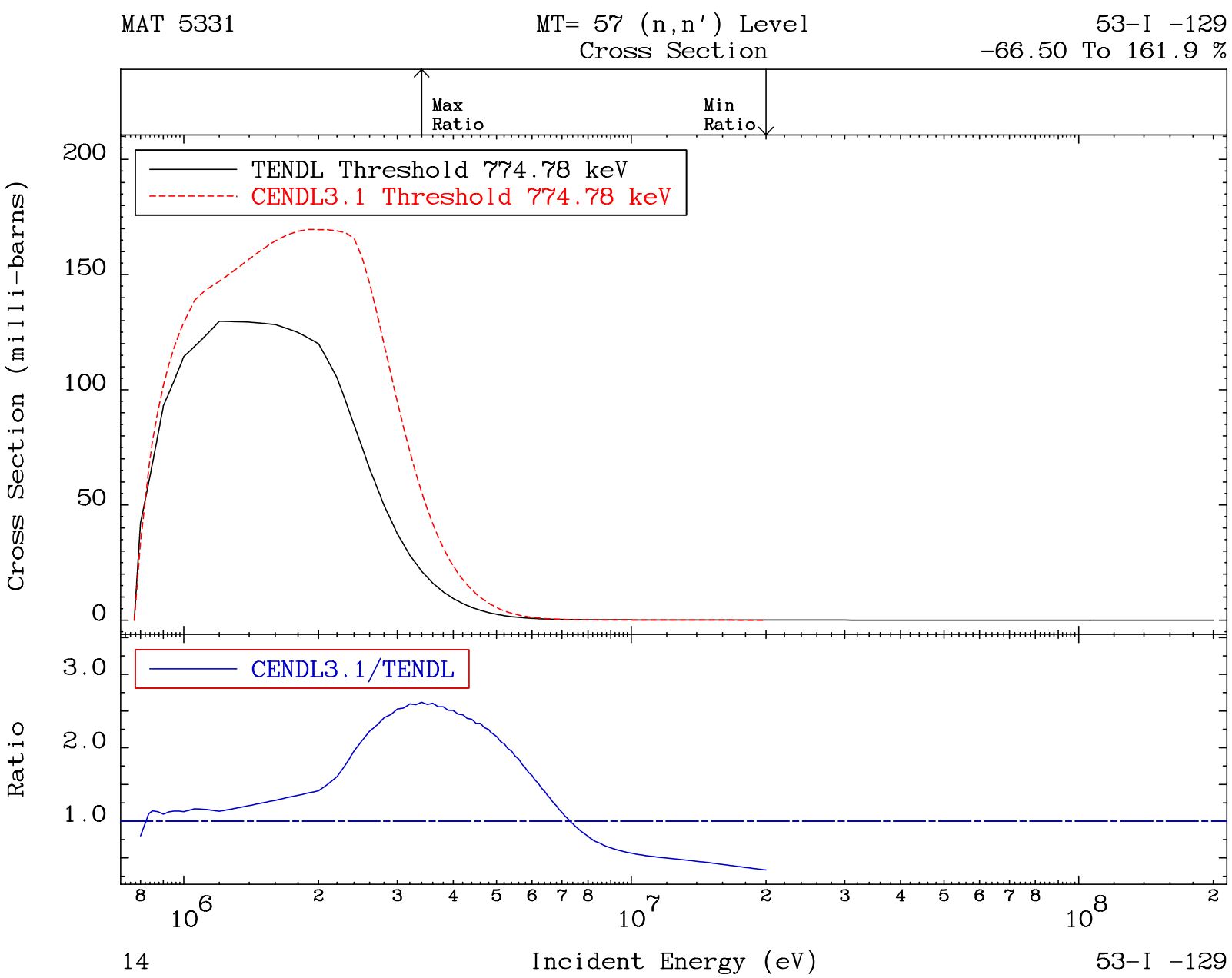

MAT 5331
MT= 52 (n,n') Level
Cross Section
53-I -129
-5.121 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 280.56 keV
CENDL3.1 Threshold 280.56 keV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^3
10^2
10^1
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
53-I -129

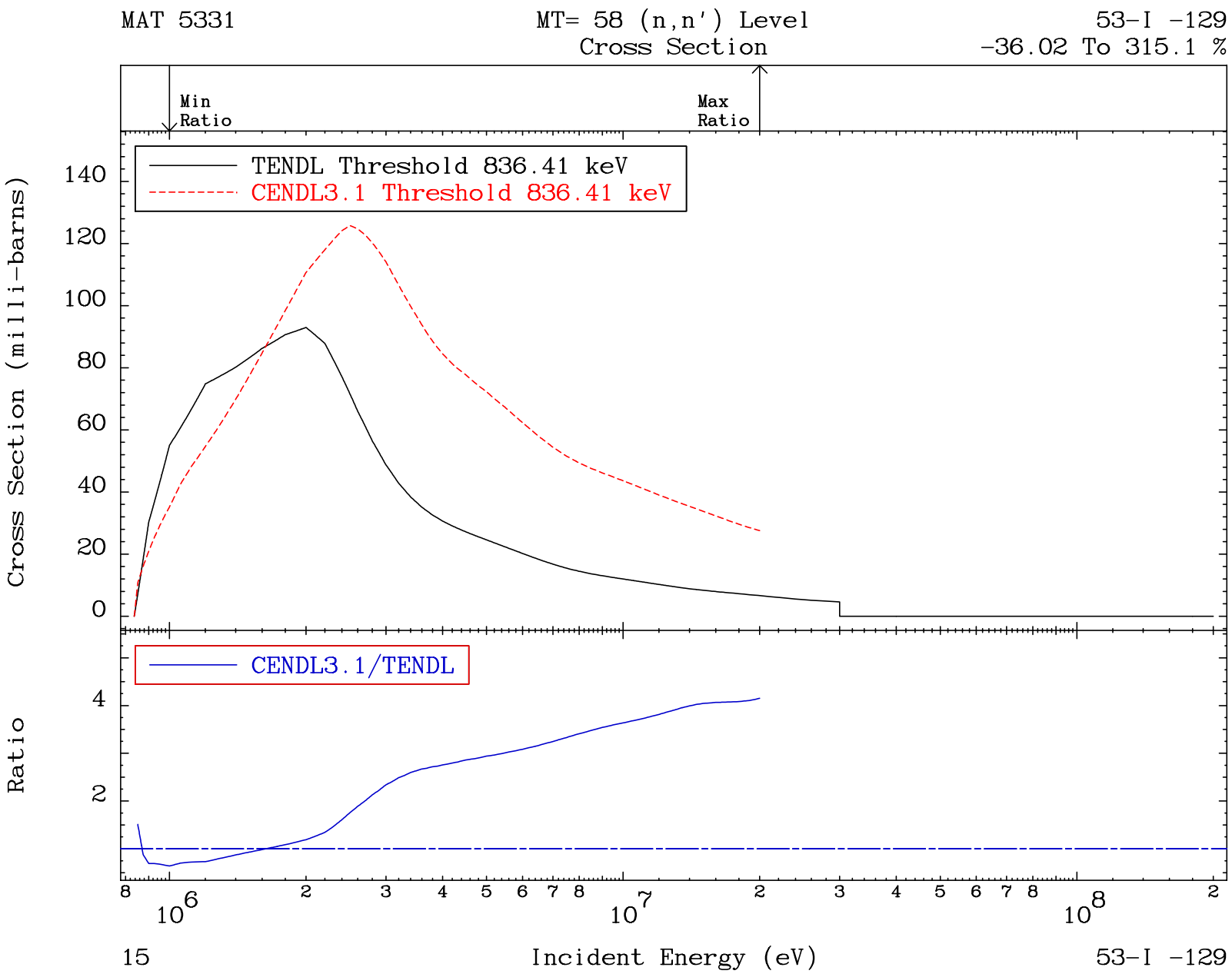

MAT 5331
MT= 53 (n,n') Level
Cross Section
53-I -129
-35.30 To 191.5 %
Min
Ratio
Max
Ratio
TENDL Threshold 491.16 keV
CENDL3.1 Threshold 491.21 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
3.0
2.0
1.0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
53-I -129

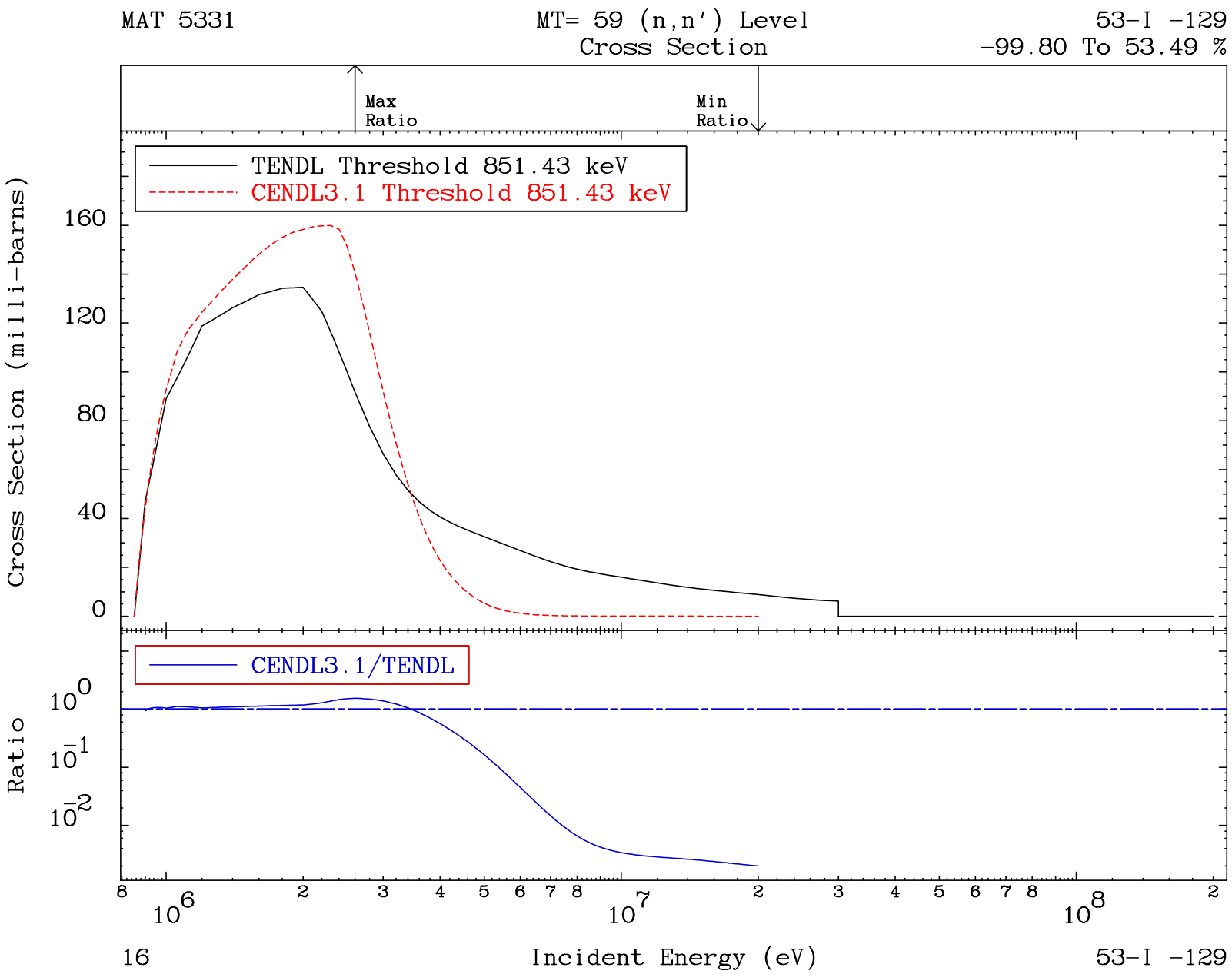

MAT 5331
MT= 54 (n,n') Level
Cross Section
53-I -129
57.13 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 564.00 keV
CENDL3.1 Threshold 564.00 keV
Cross Section (milli-barns)
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^9
10^6
10^3
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
53-I -129

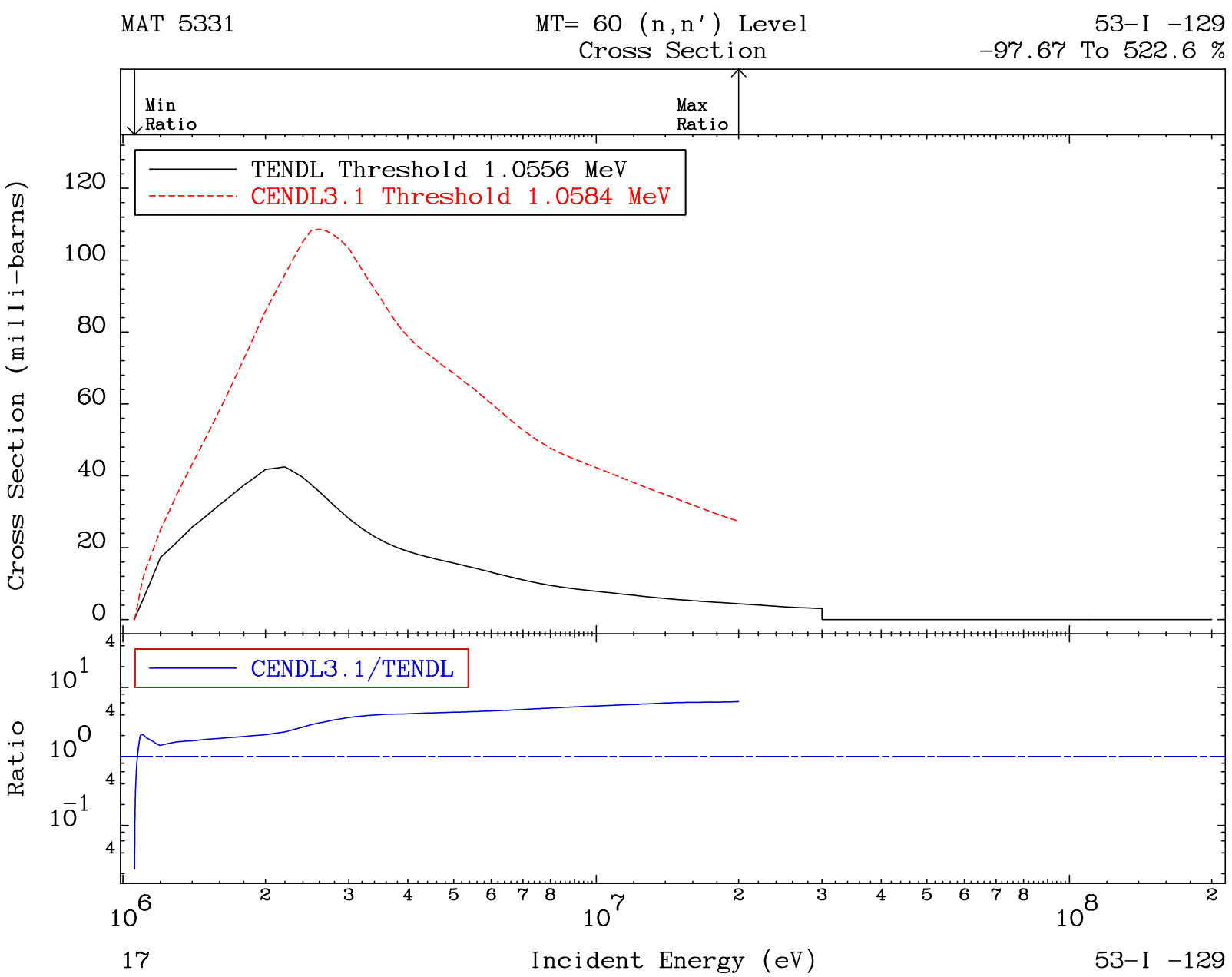

MAT 5331
MT= 55 (n,n') Level
Cross Section
53-I -129
-99.80 To 76.45 %
Max
Ratio
Min
Ratio
TENDL Threshold 701.34 keV
CENDL3.1 Threshold 701.34 keV
Cross Section (milli-barns)
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
53-I -129

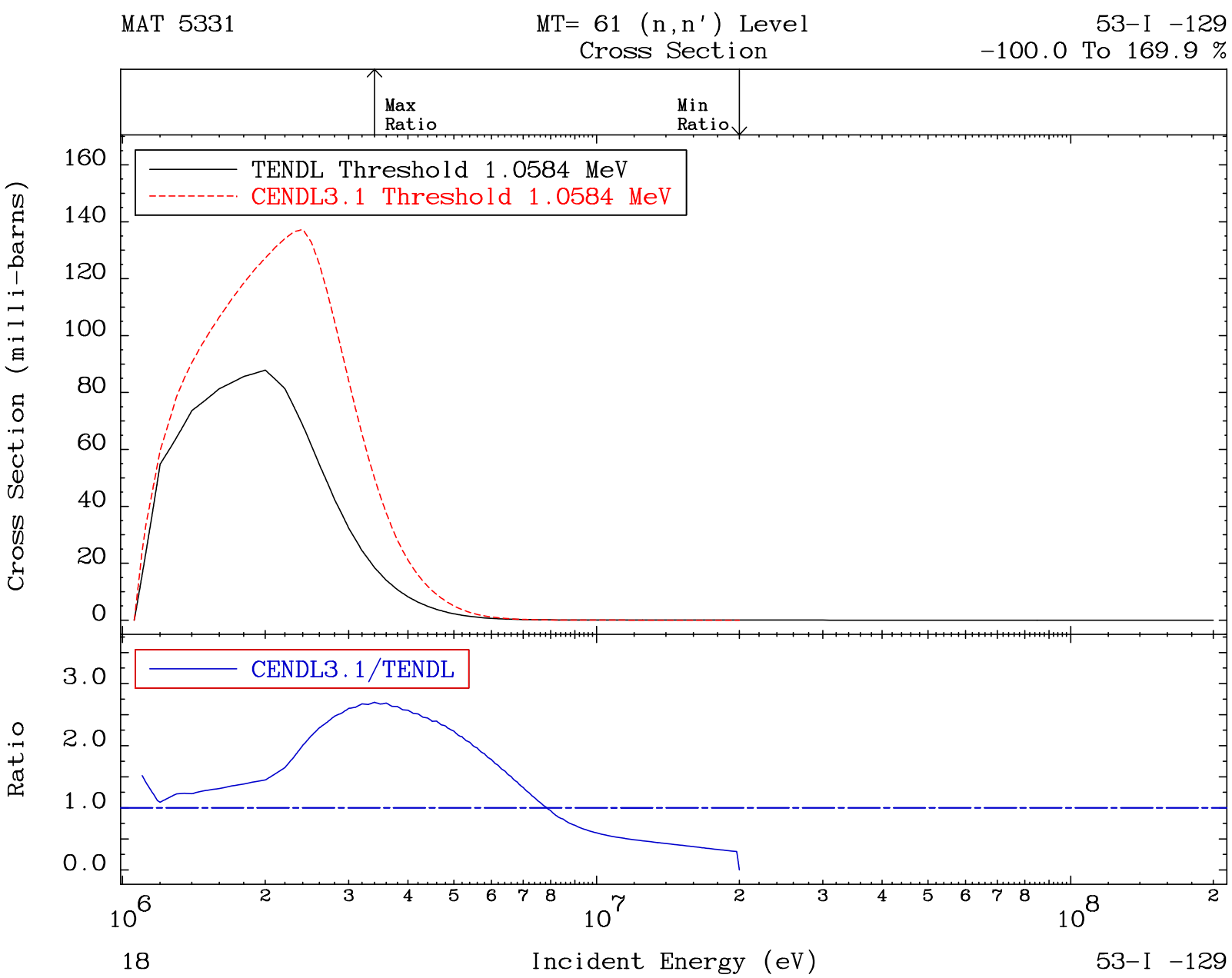

MAT 5331
MT= 56 (n,n') Level
Cross Section
53-I -129
-99.74 To 62.36 %
Max
Ratio
Min
Ratio
TENDL Threshold 735.28 keV
CENDL3.1 Threshold 735.28 keV
Cross Section (milli-barns)
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
13
Incident Energy (eV)
53-I -129

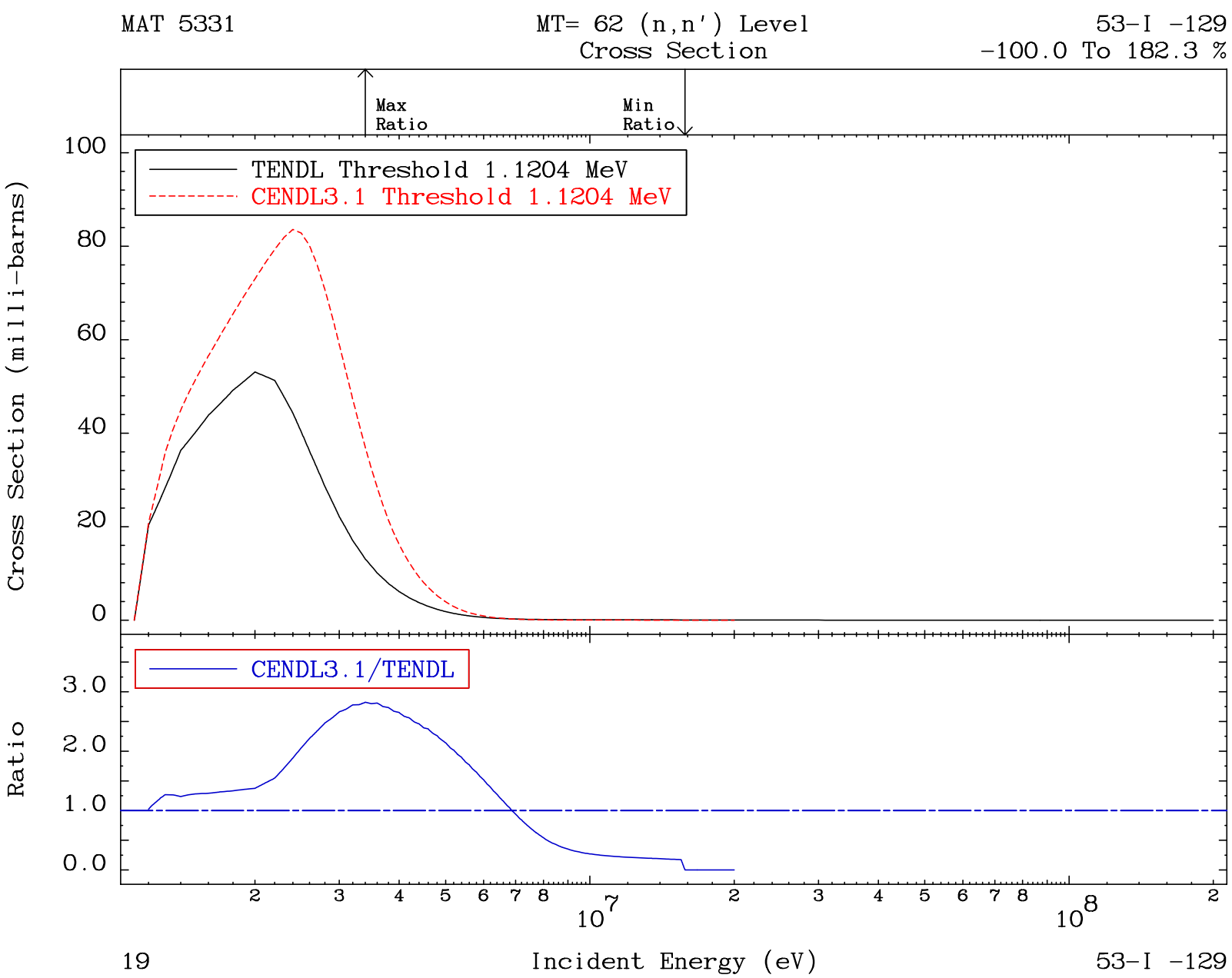

MAT 5331
MT= 57 (n,n') Level
Cross Section
53-I -129
-66.50 To 161.9 %
Max
Ratio
Min
Ratio
TENDL Threshold 774.78 keV
CENDL3.1 Threshold 774.78 keV
Cross Section (milli-barns)
200
150
100
50
0
CENDL3.1/TENDL
Ratio
3.0
2.0
1.0
8
2
3
4
5
6
7
8
10^6
10^7
10^8
14
Incident Energy (eV)
53-I -129

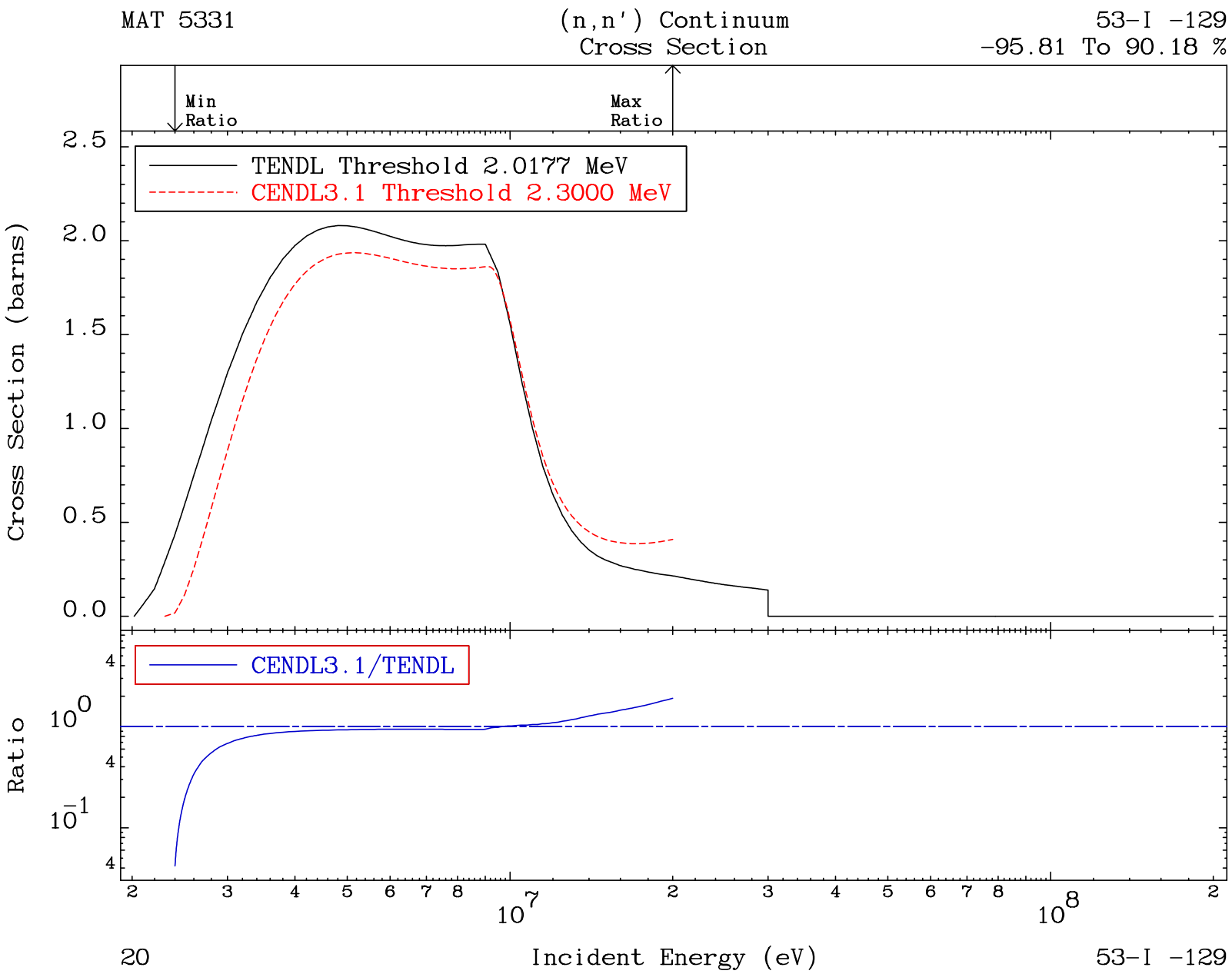

MAT 5331
MT= 58 (n,n') Level
Cross Section
53-I -129
-36.02 To 315.1 %
Min
Ratio
Max
Ratio
TENDL Threshold 836.41 keV
CENDL3.1 Threshold 836.41 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
4
2
8
2
3
4
5
6
7
8
10^6
10^7
10^8
15
Incident Energy (eV)
53-I -129

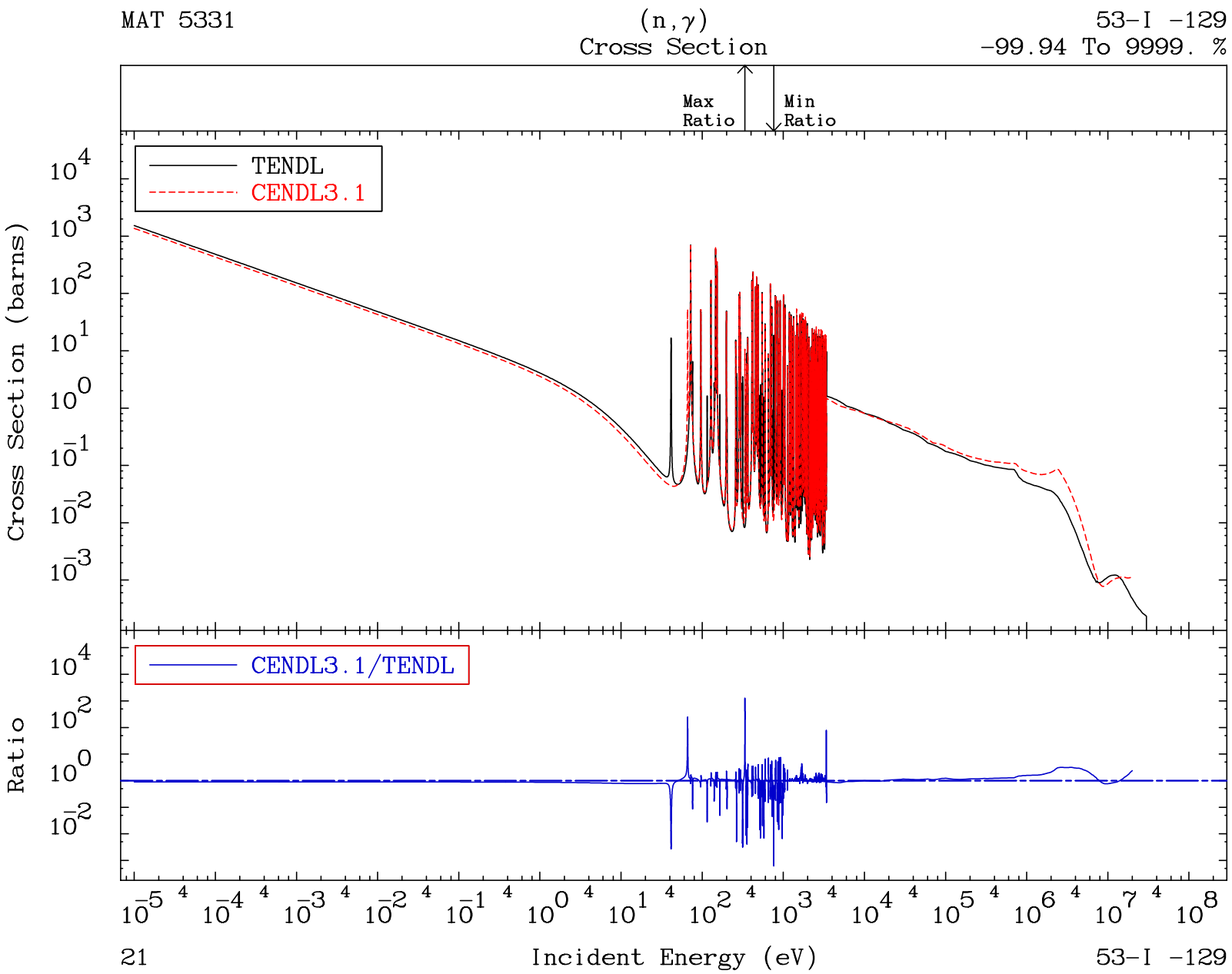

MAT 5331
MT= 59 (n,n') Level
Cross Section
53-I -129
-99.80 To 53.49 %
Max
Ratio
Min
Ratio
TENDL Threshold 851.43 keV
CENDL3.1 Threshold 851.43 keV
Cross Section (milli-barns)
160
120
80
40
0
CENDL3.1/TENDL
Ratio
10^0
10^-1
10^-2
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
53-I -129

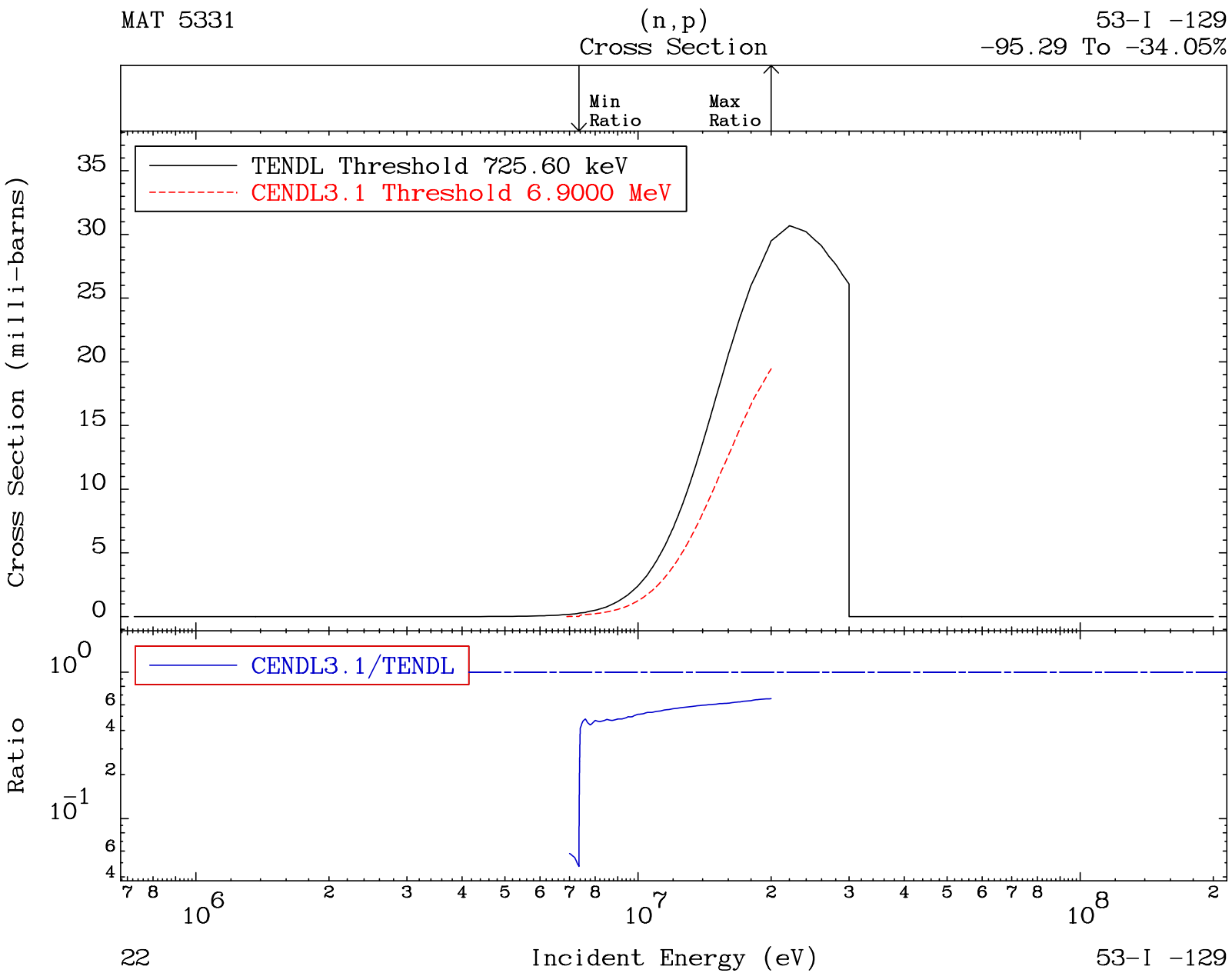

MAT 5331
MT= 60 (n,n') Level
Cross Section
53-I -129
-97.67 To 522.6 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0556 MeV
CENDL3.1 Threshold 1.0584 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
10^1
10^0
10^-1
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
53-I -129

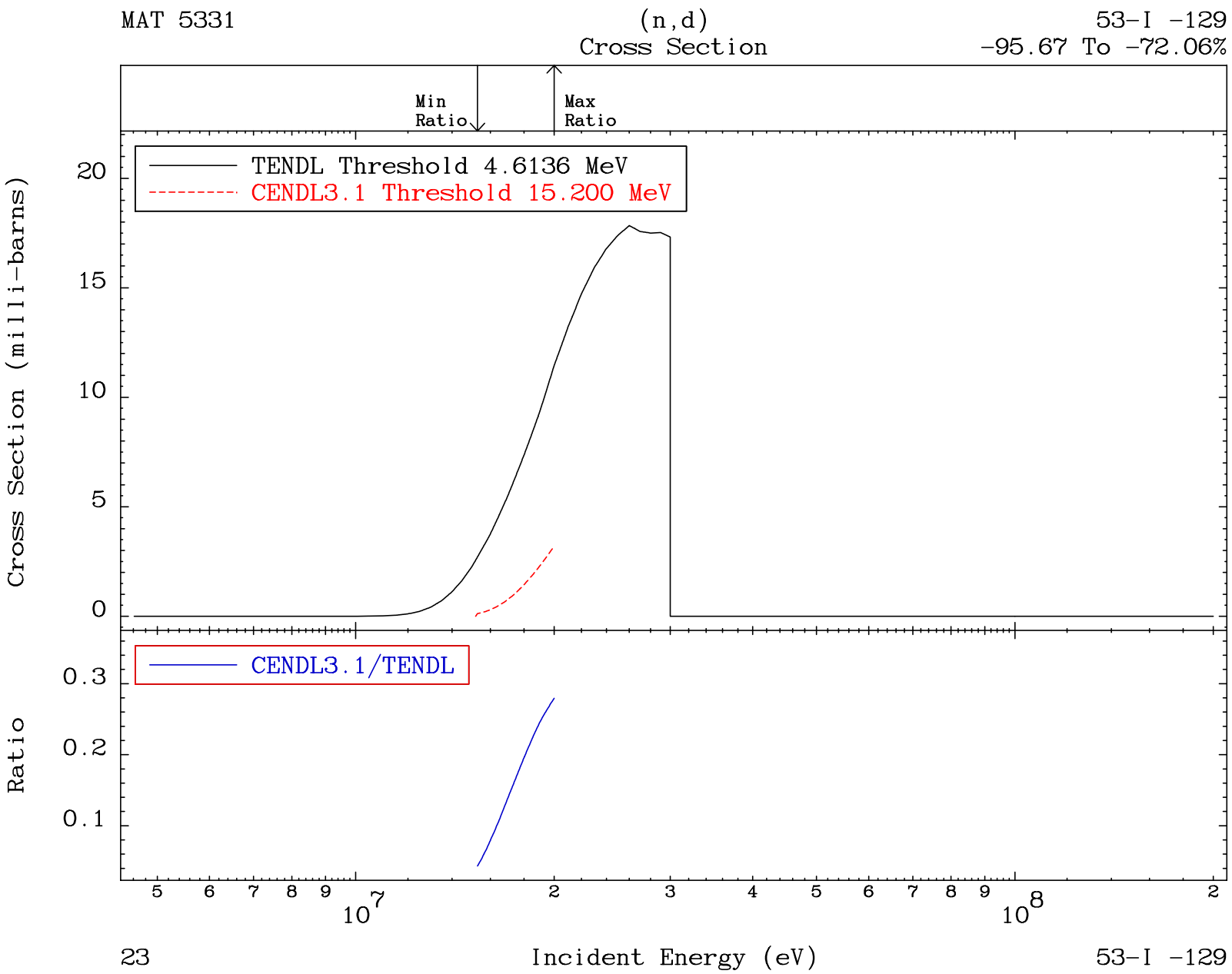

MAT 5331
MT= 61 (n,n') Level
Cross Section
53-I -129
-100.0 To 169.9 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.0584 MeV
CENDL3.1 Threshold 1.0584 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
3.0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
18
53-I -129

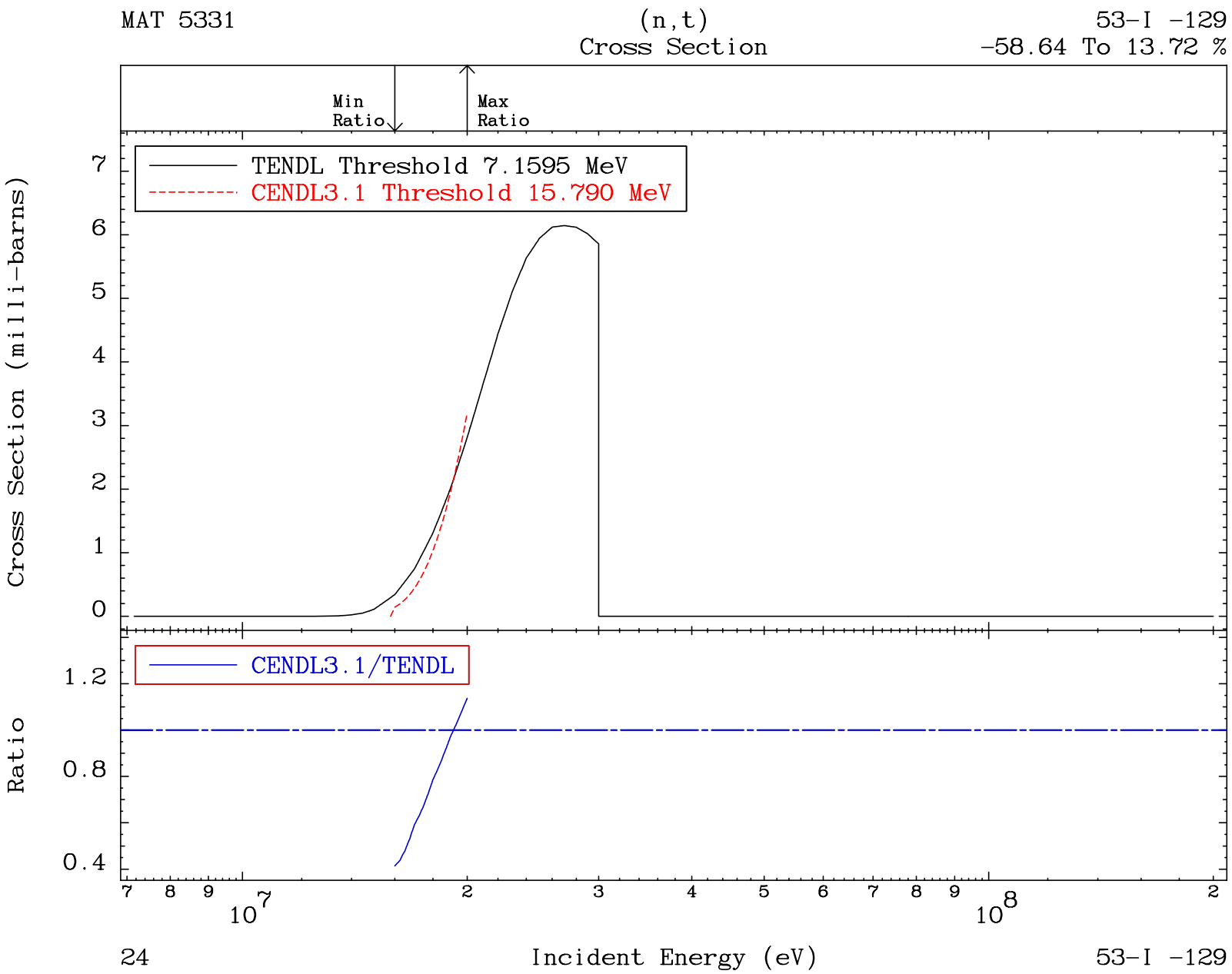

MAT 5331
MT= 62 (n,n') Level
Cross Section
53-I -129
-100.0 To 182.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1204 MeV
CENDL3.1 Threshold 1.1204 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
CENDL3.1/TENDL
Ratio
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
53-I -129

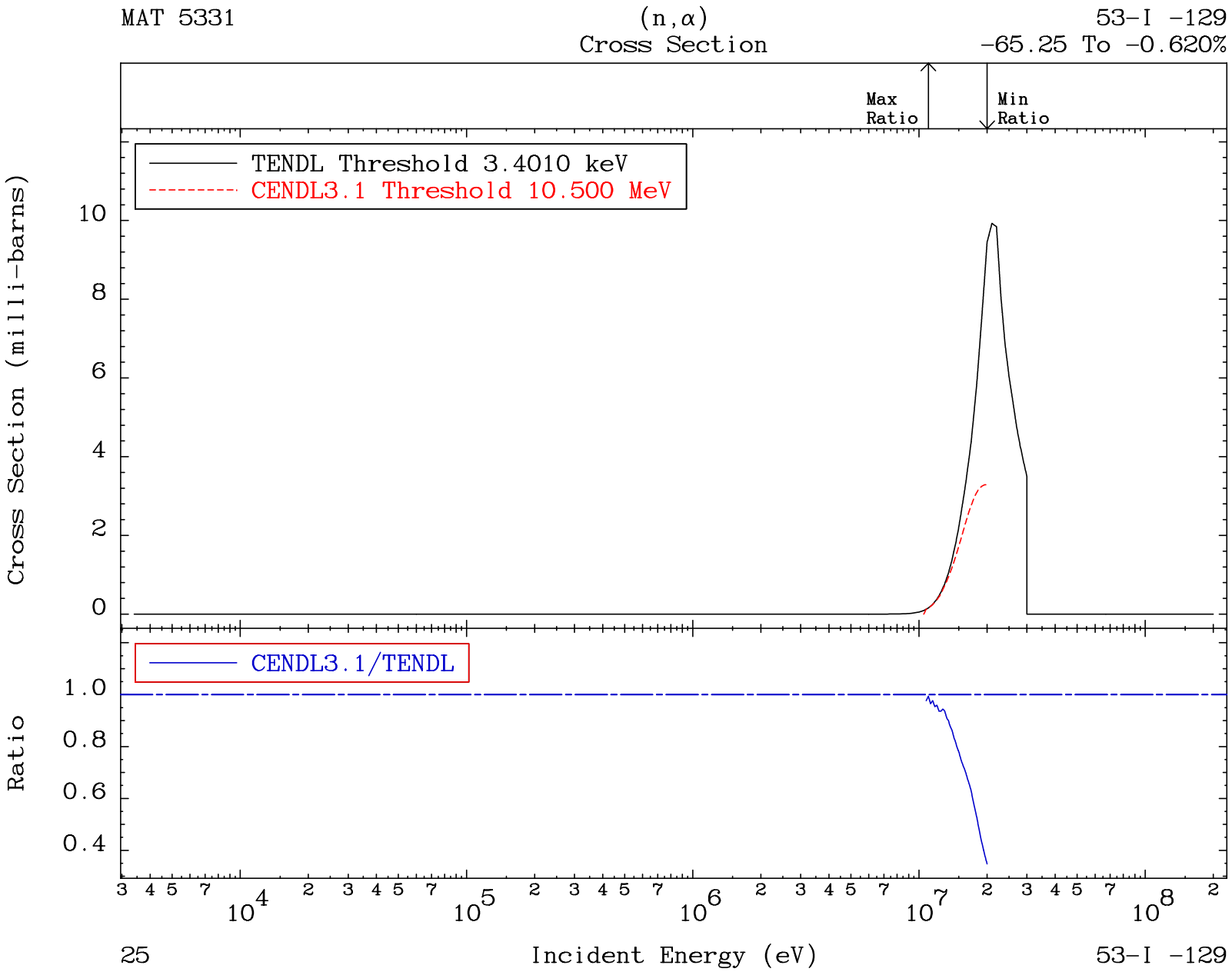

MAT 5331
(n,n') Continuum
Cross Section
53-I -129
-95.81 To 90.18 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0177 MeV
CENDL3.1 Threshold 2.3000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
53-I -129

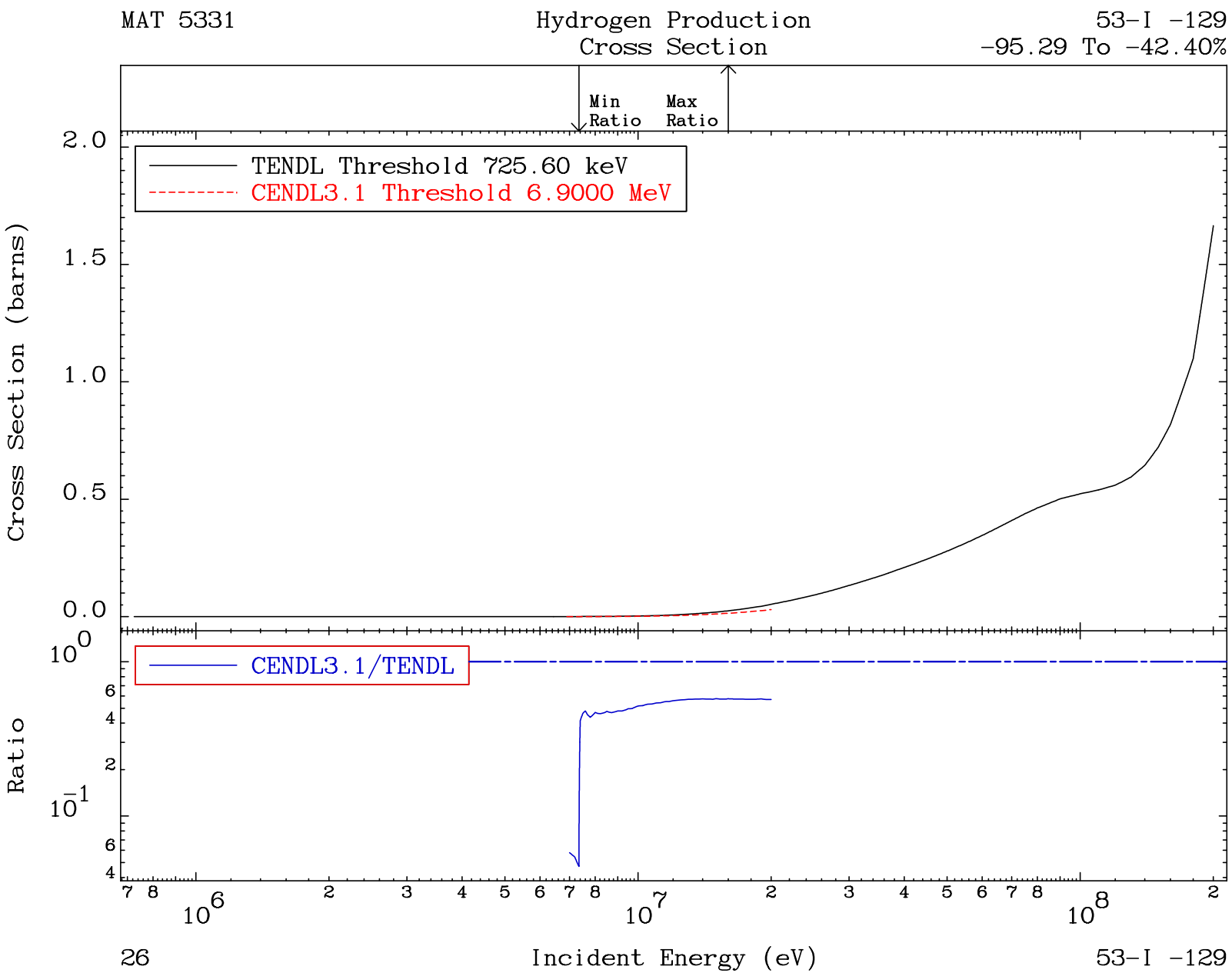

MAT 5331
(n,γ)
Cross Section
53-I -129
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
21
53-I -129

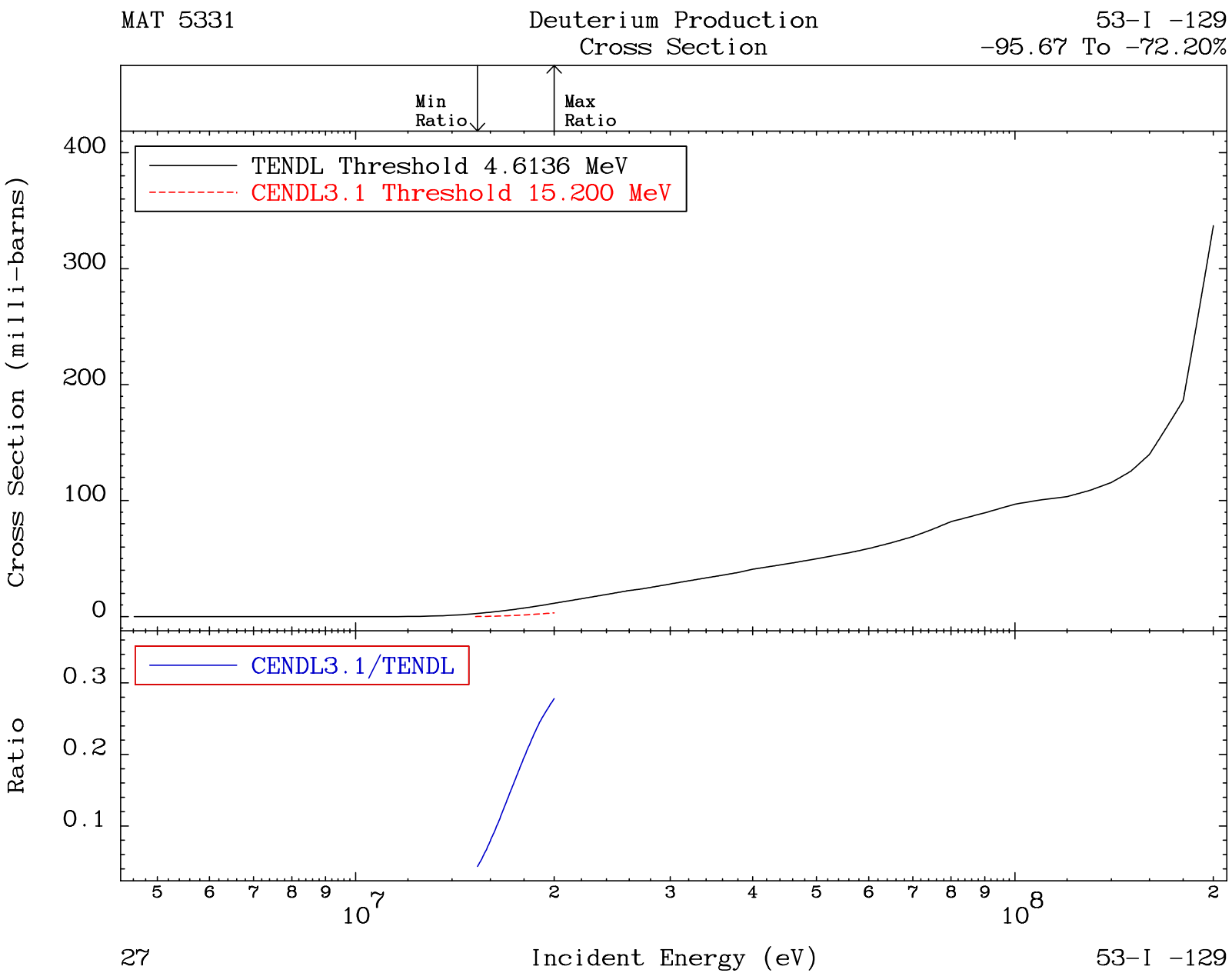

MAT 5331
(n,p)
Cross Section
53-I -129
-95.29 To -34.05%
Min Ratio
Max Ratio
TENDL Threshold 725.60 keV
CENDL3.1 Threshold 6.9000 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
CENDL3.1/TENDL
Ratio
10^0
10^-1
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
53-I -129

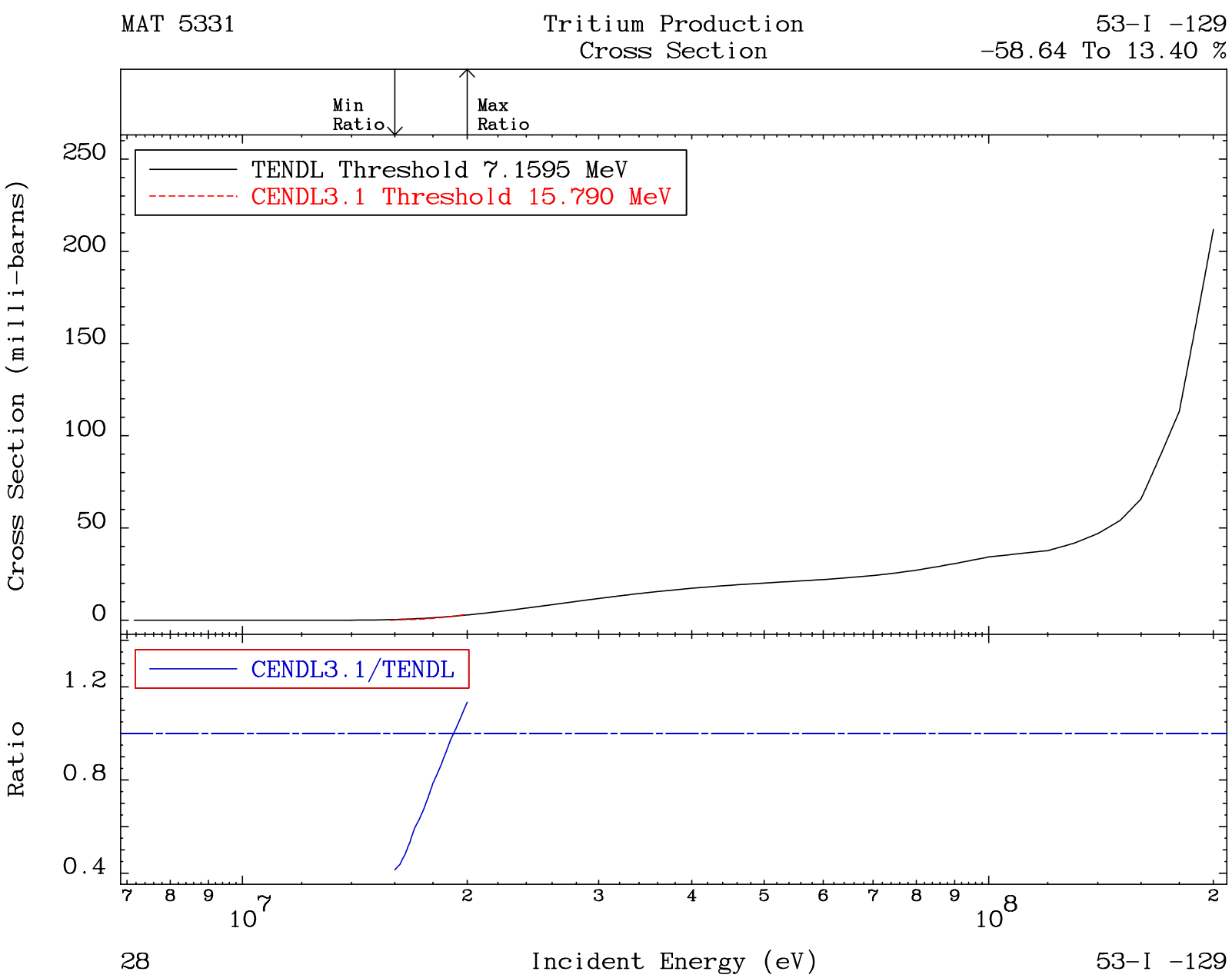

MAT 5331
(n,d)
Cross Section
53-I -129
-95.67 To -72.06%
Min Ratio
Max Ratio
TENDL Threshold 4.6136 MeV
CENDL3.1 Threshold 15.200 MeV
Cross Section (milli-barns)
20
15
10
5
0
CENDL3.1/TENDL
Ratio
0.3
0.2
0.1
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
53-I -129

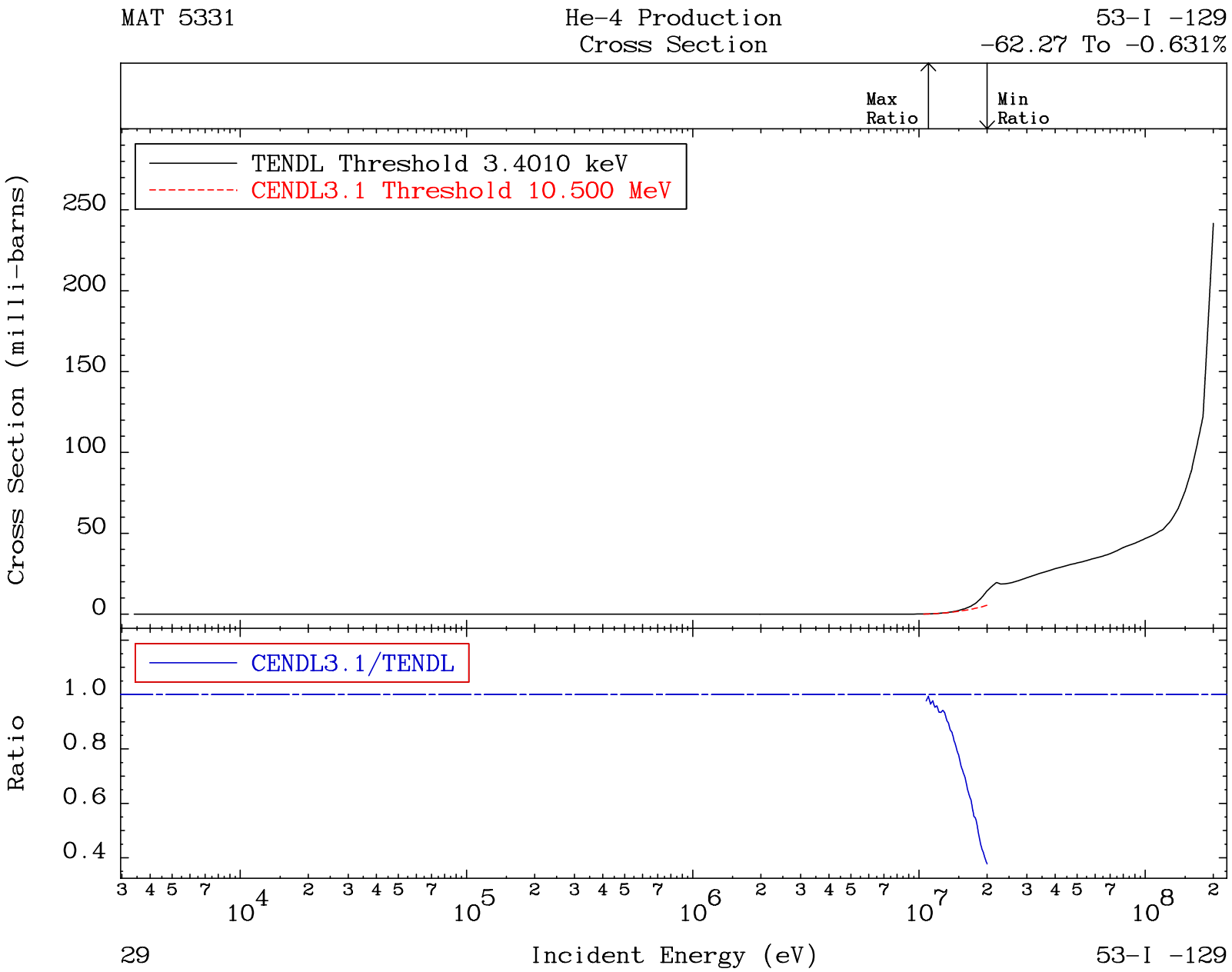

MAT 5331
(n,t)
Cross Section
53-I -129
-58.64 To 13.72 %
Min Ratio
Max Ratio
TENDL Threshold 7.1595 MeV
CENDL3.1 Threshold 15.790 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
CENDL3.1/TENDL
Ratio
0.4
0.8
1.2
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
53-I -129

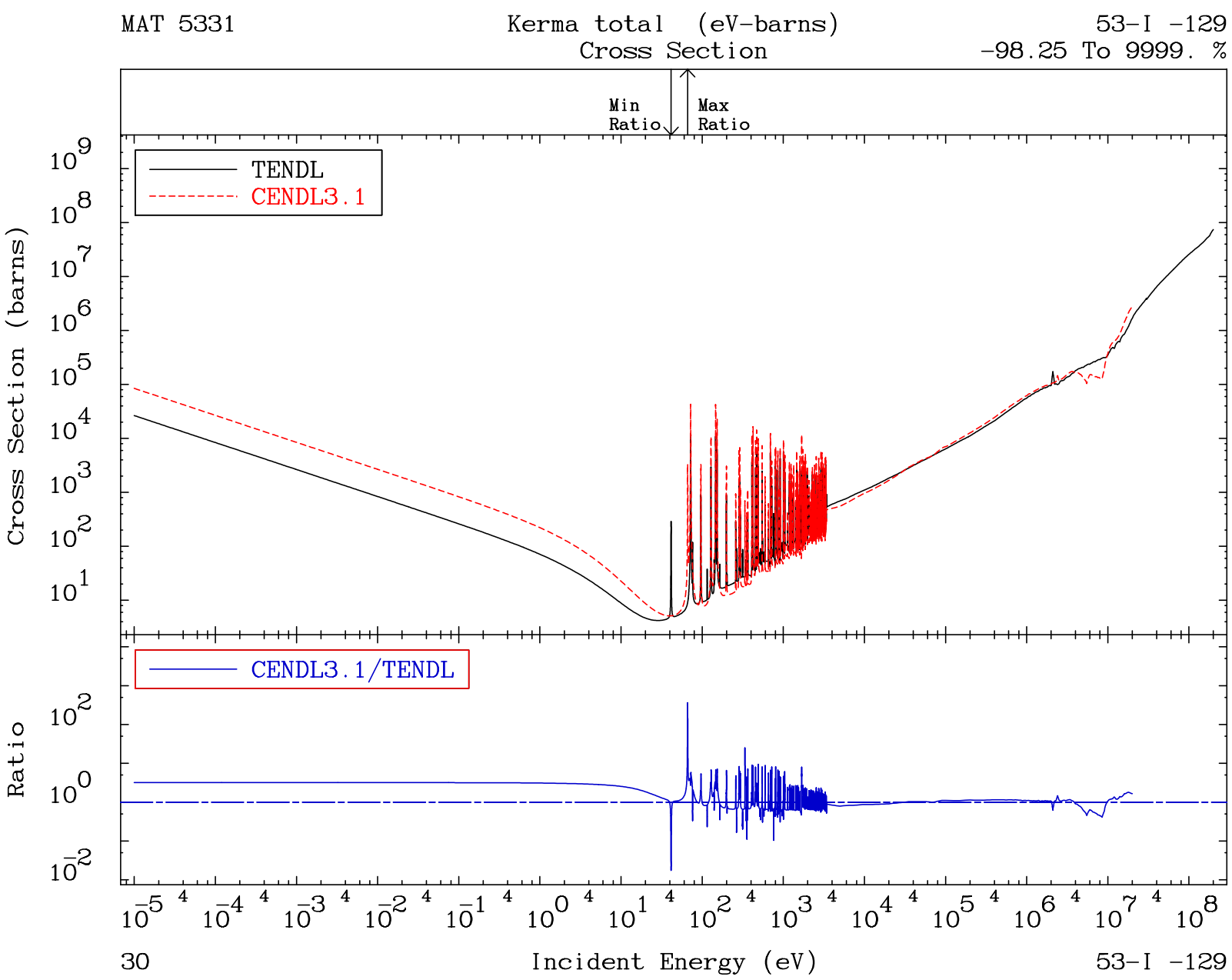

MAT 5331
(n,α)
Cross Section
53-I -129
-65.25 To -0.620%
Max Ratio
Min Ratio
TENDL Threshold 3.4010 keV
CENDL3.1 Threshold 10.500 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
CENDL3.1/TENDL
Ratio
1.0
0.8
0.6
0.4
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
25
Incident Energy (eV)
53-I -129

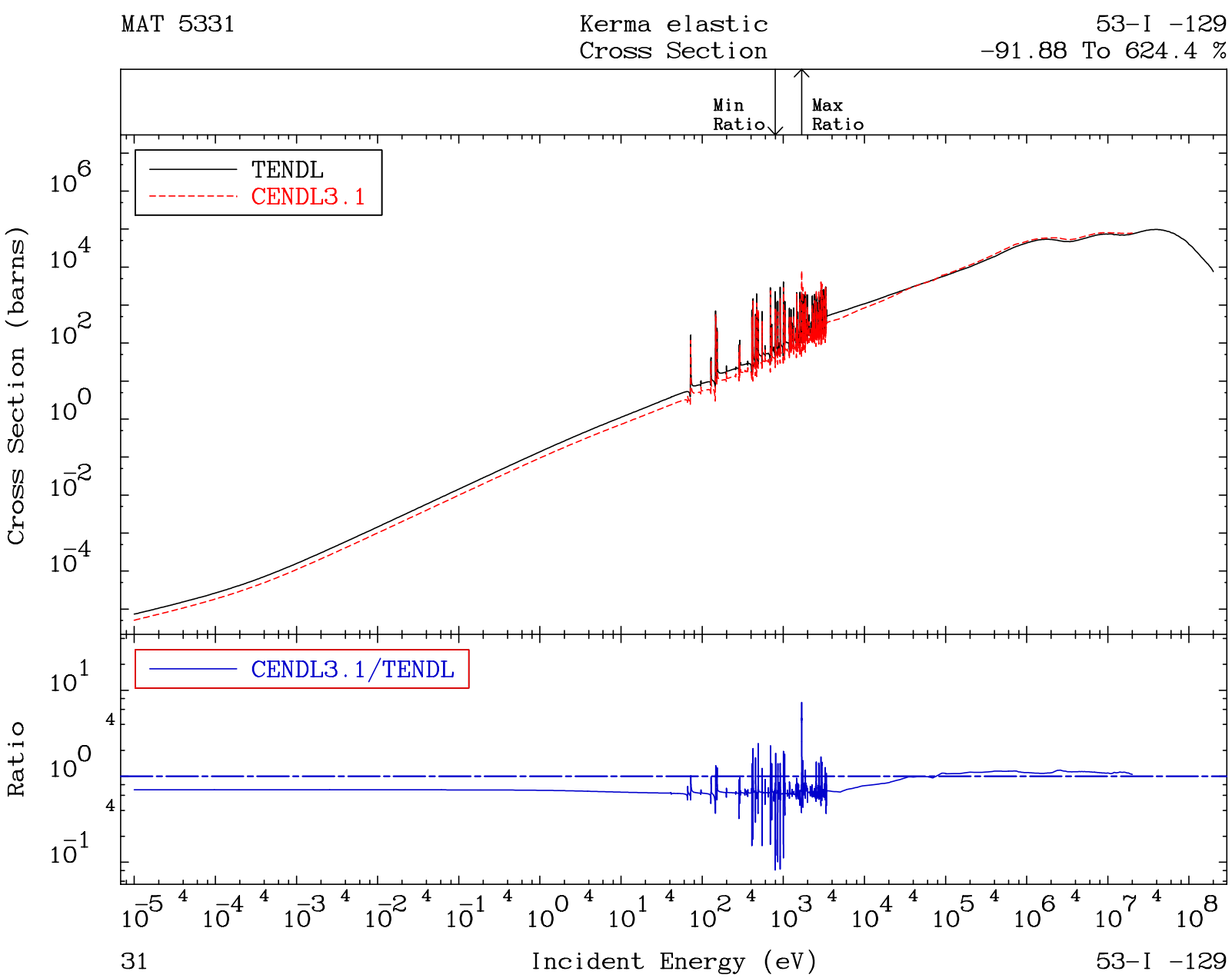

MAT 5331
Hydrogen Production
Cross Section
53-I -129
-95.29 To -42.40%
Min Ratio
Max Ratio
TENDL Threshold 725.60 keV
CENDL3.1 Threshold 6.9000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.1/TENDL
Ratio
10^0
10^-1
6
4
2
6
4
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
53-I -129

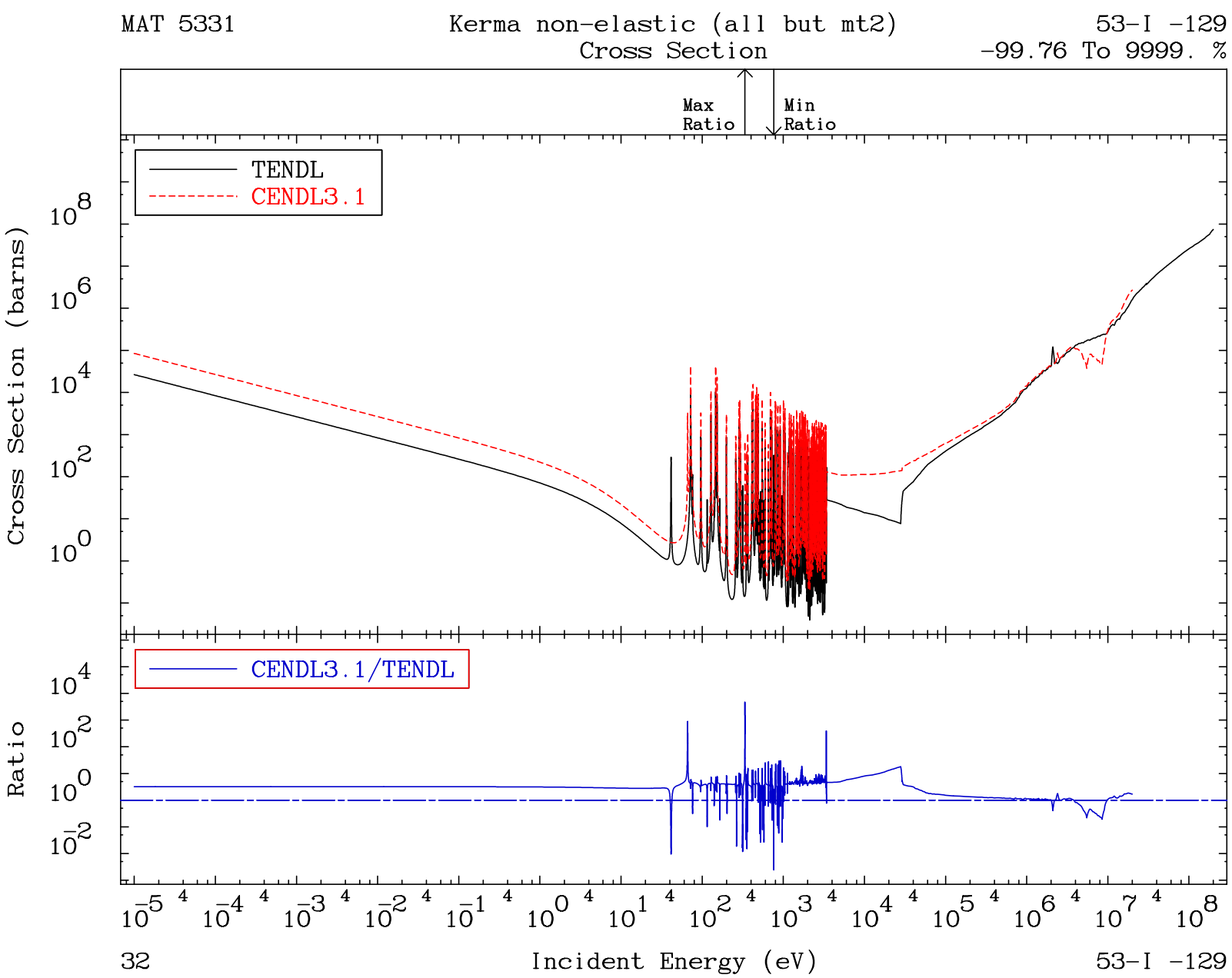

MAT 5331
Deuterium Production
Cross Section
53-I -129
-95.67 To -72.20%
Min Ratio
Max Ratio
TENDL Threshold 4.6136 MeV
CENDL3.1 Threshold 15.200 MeV
Cross Section (milli-barns)
400
300
200
100
0
CENDL3.1/TENDL
Ratio
0.3
0.2
0.1
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
27
Incident Energy (eV)
53-I -129

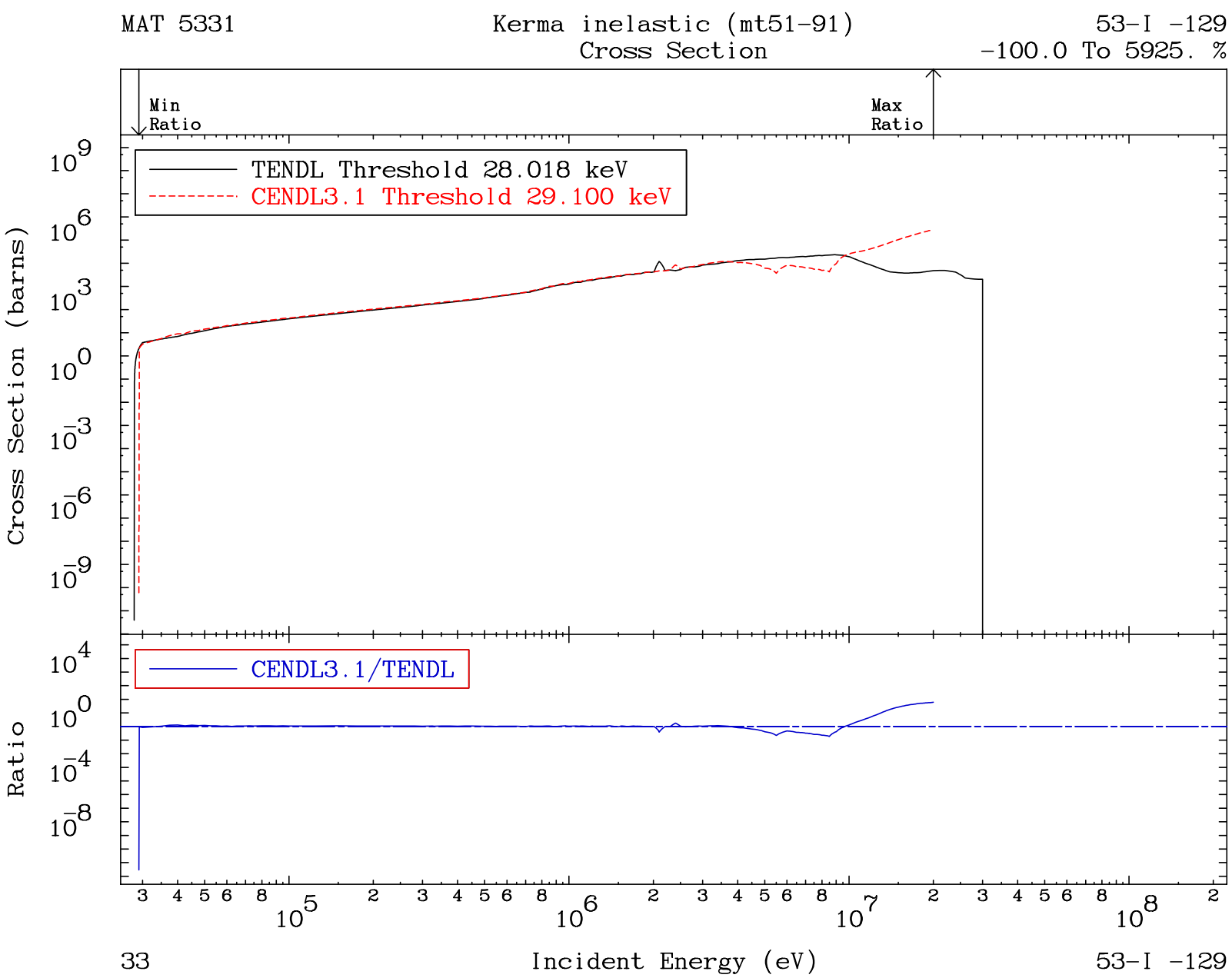

MAT 5331
Tritium Production
Cross Section
53-I -129
-58.64 To 13.40 %
Min Ratio
Max Ratio
TENDL Threshold 7.1595 MeV
CENDL3.1 Threshold 15.790 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
1.2
0.8
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
53-I -129

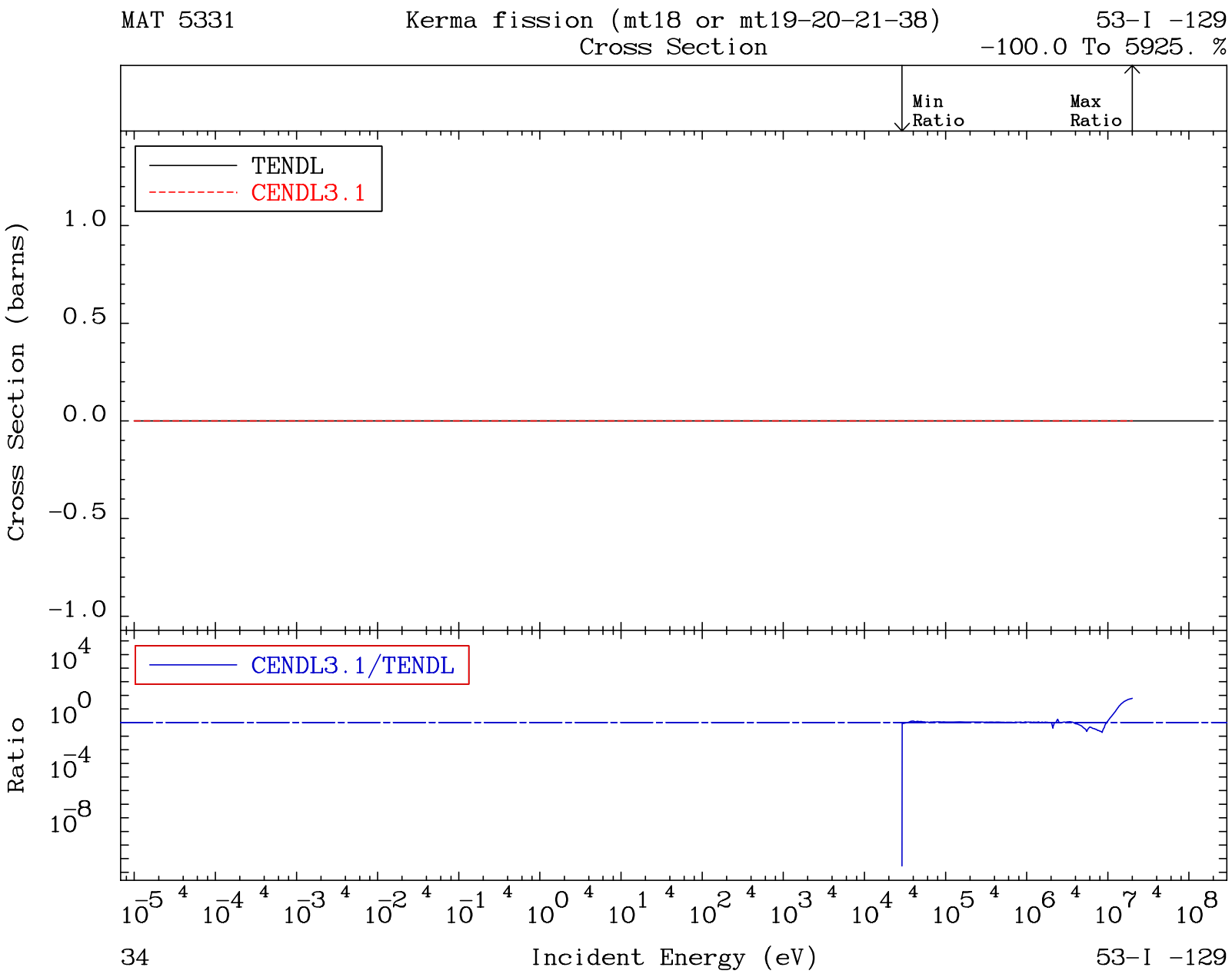

MAT 5331
He-4 Production
Cross Section
53-I -129
-62.27 To -0.631%
Max Ratio
Min Ratio
TENDL Threshold 3.4010 keV
CENDL3.1 Threshold 10.500 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
CENDL3.1/TENDL
Ratio
1.0
0.8
0.6
0.4
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
29
Incident Energy (eV)
53-I -129

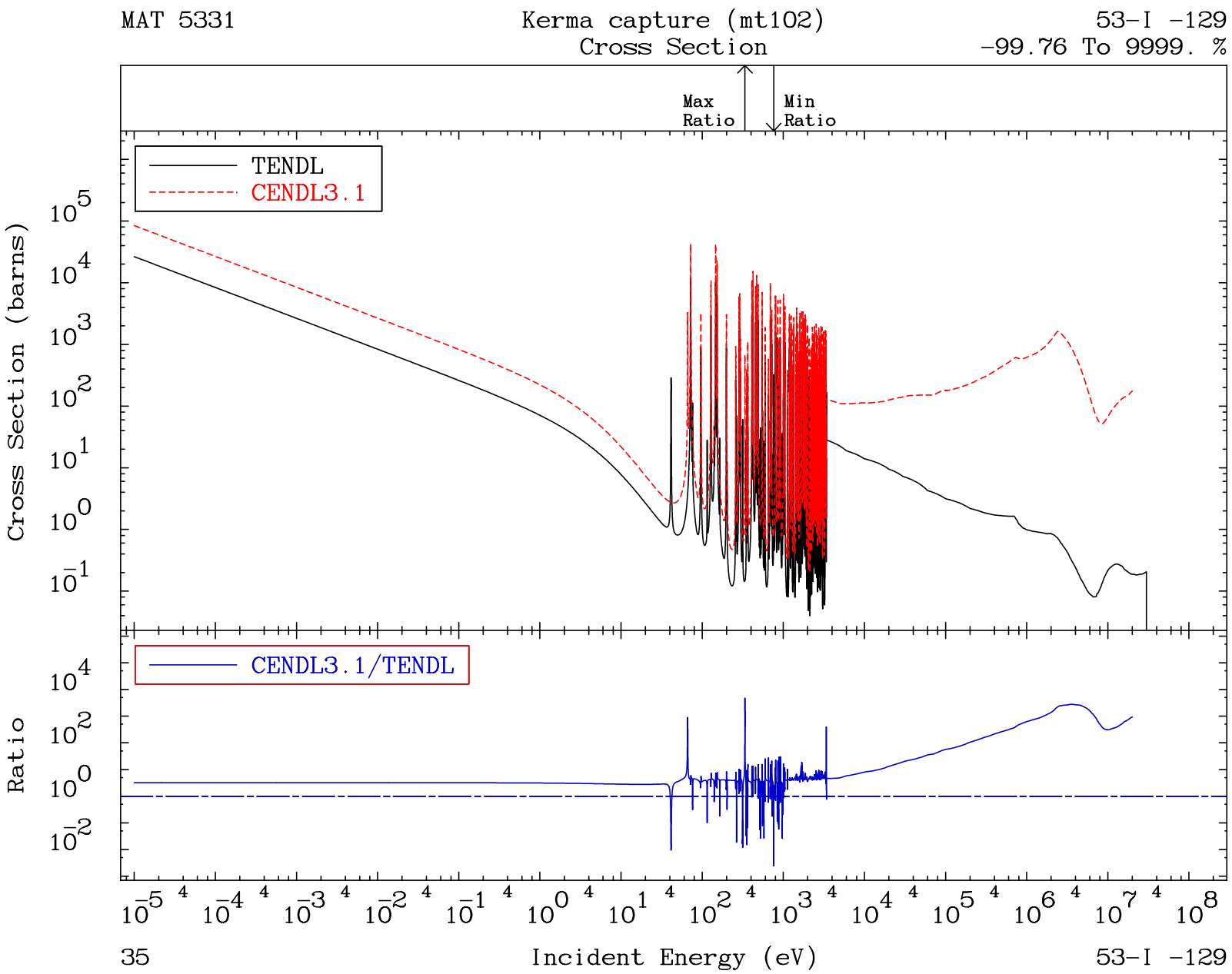

MAT 5331
Kerma total (eV-barns)
Cross Section
53-I -129
-98.25 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
30
53-I -129

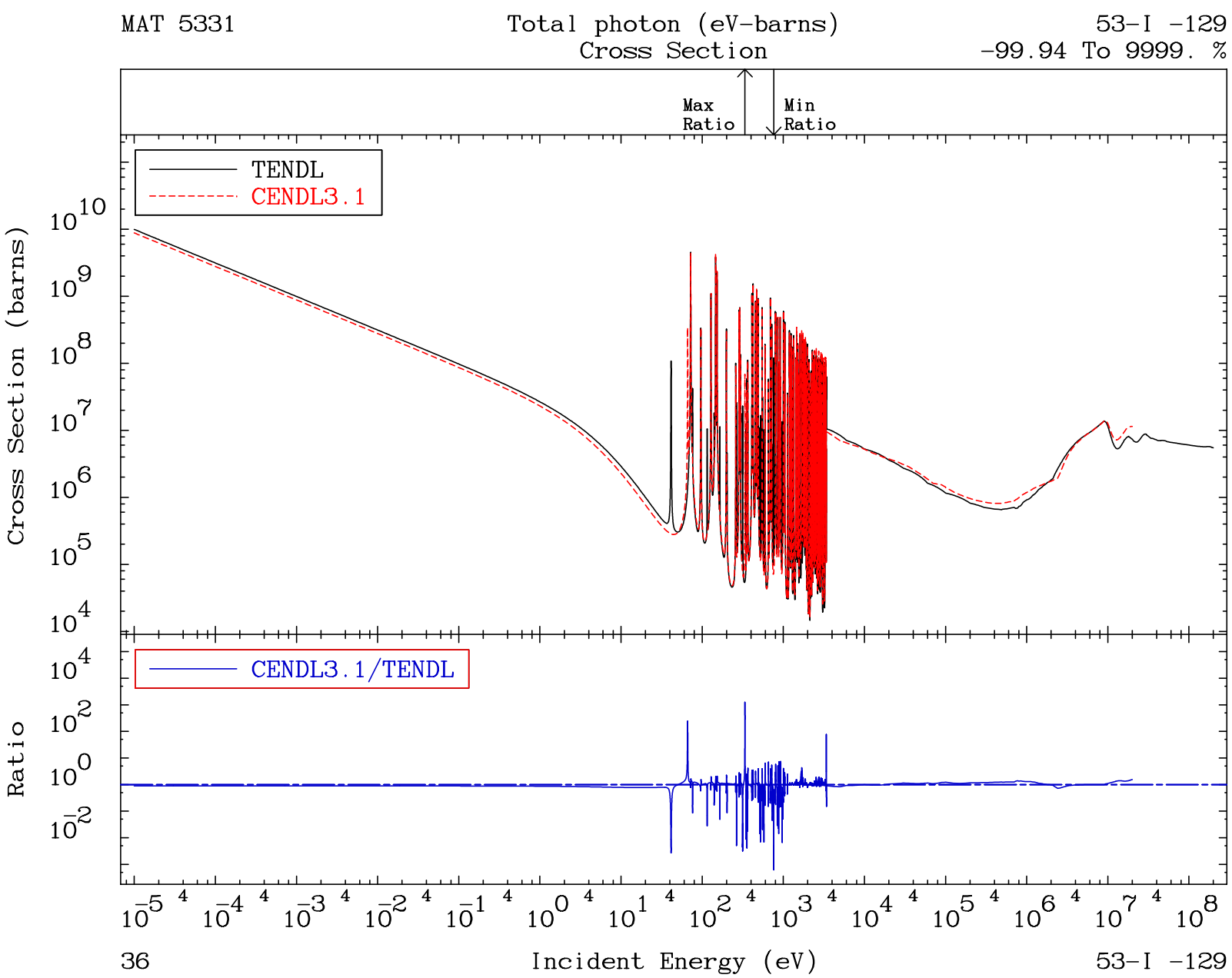

MAT 5331
Kerma elastic
Cross Section
53-I -129
-91.88 To 624.4 %
Min
Ratio
Max
Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
31
53-I -129

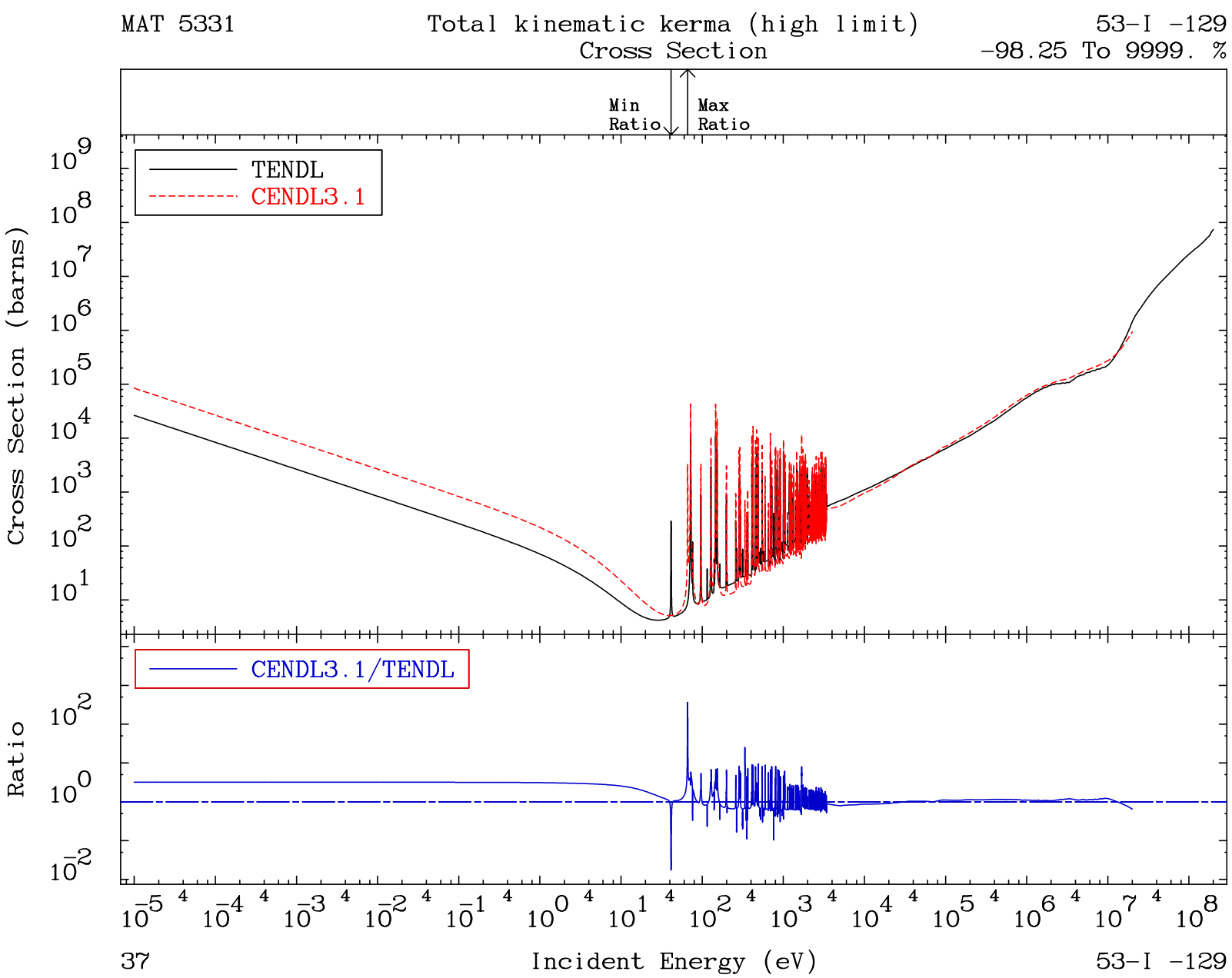

MAT 5331
Kerma non-elastic (all but mt2)
Cross Section
53-I -129
-99.76 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
32
53-I -129

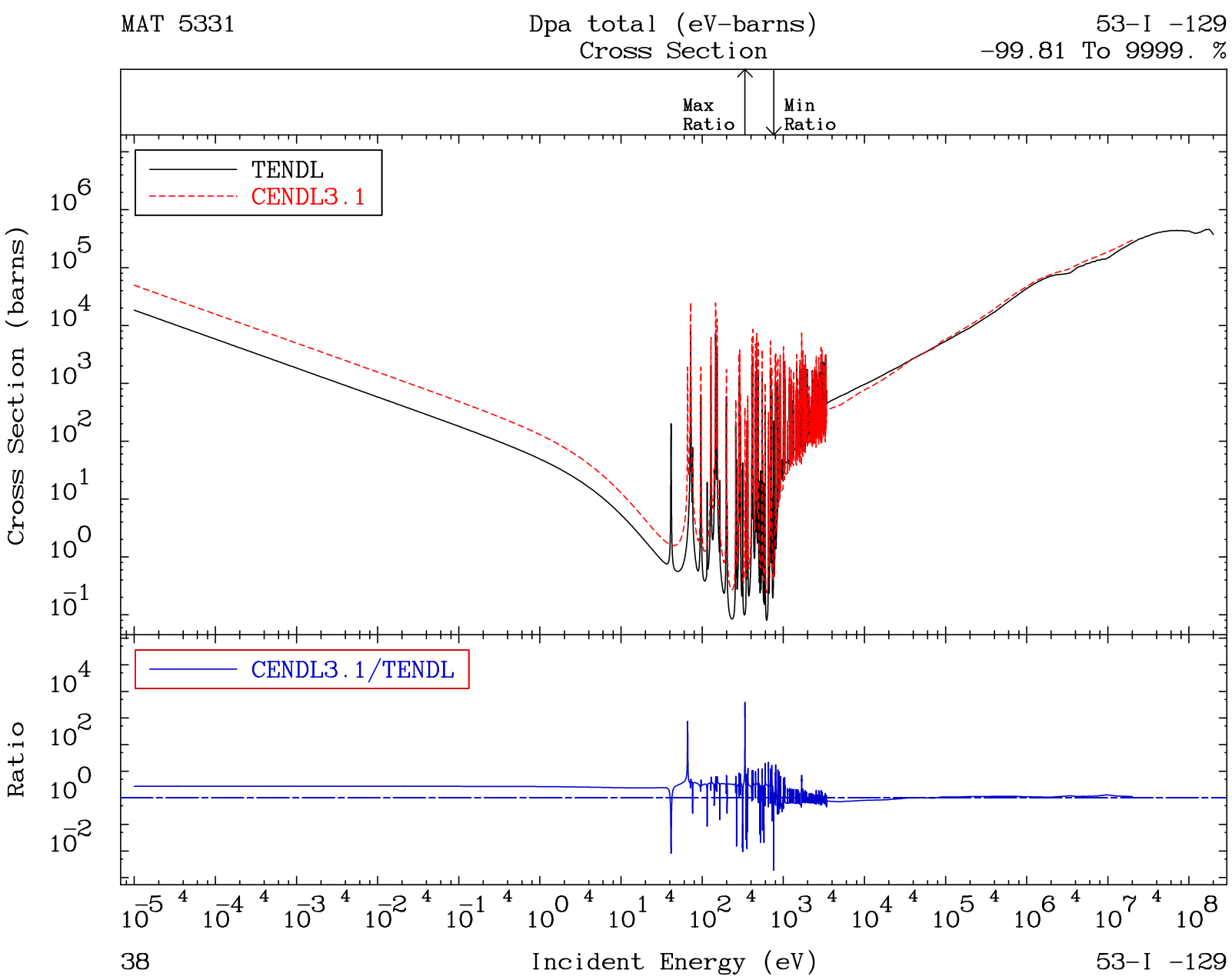

MAT 5331
Kerma inelastic (mt51-91)
Cross Section
53-I -129
-100.0 To 5925. %
Min Ratio
Max Ratio
TENDL Threshold 28.018 keV
CENDL3.1 Threshold 29.100 keV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
33
53-I -129

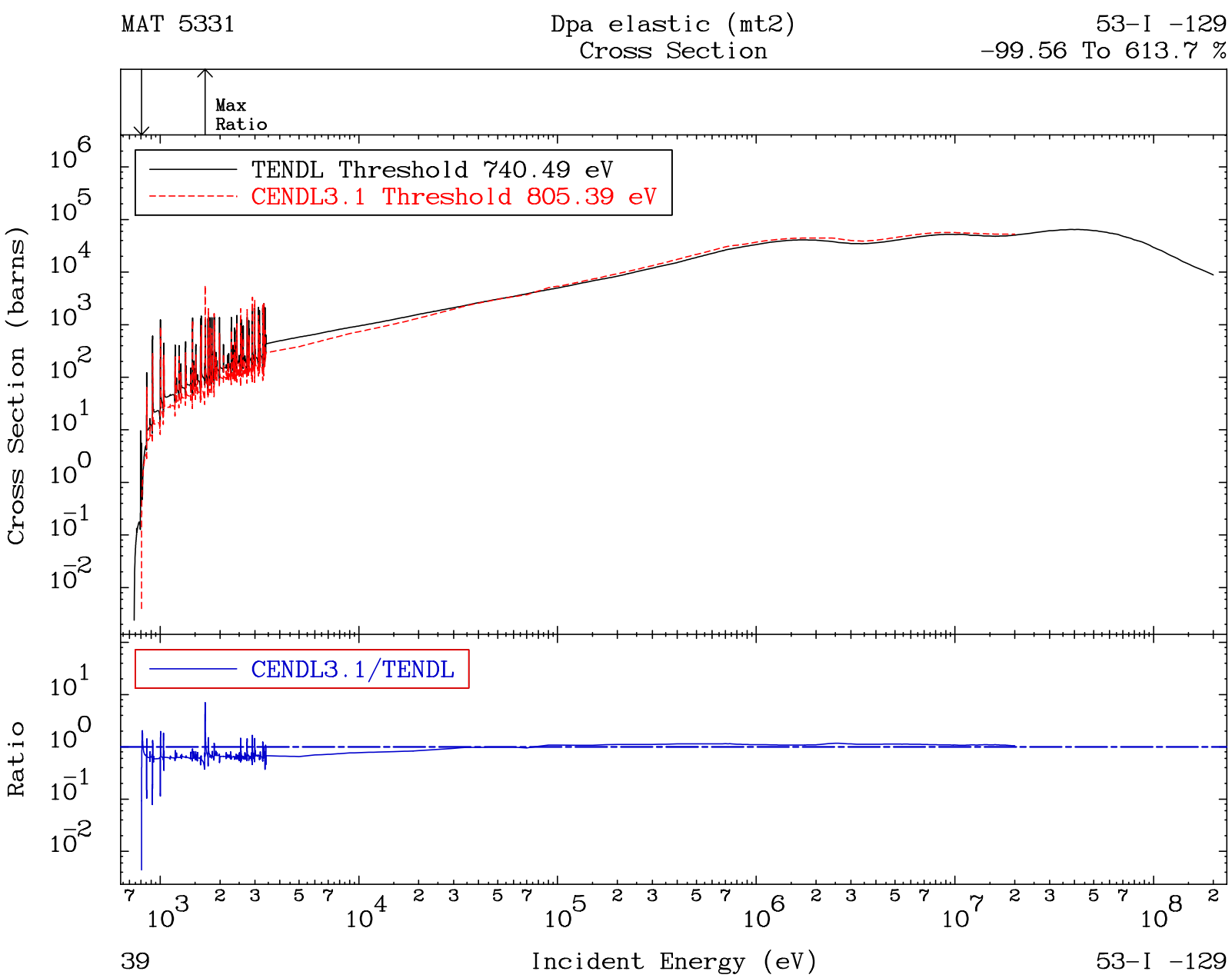

MAT 5331
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
53-I -129
-100.0 To 5925. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
CENDL3.1/TENDL
Ratio
10^4
10^0
10^-4
10^-8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
53-I -129

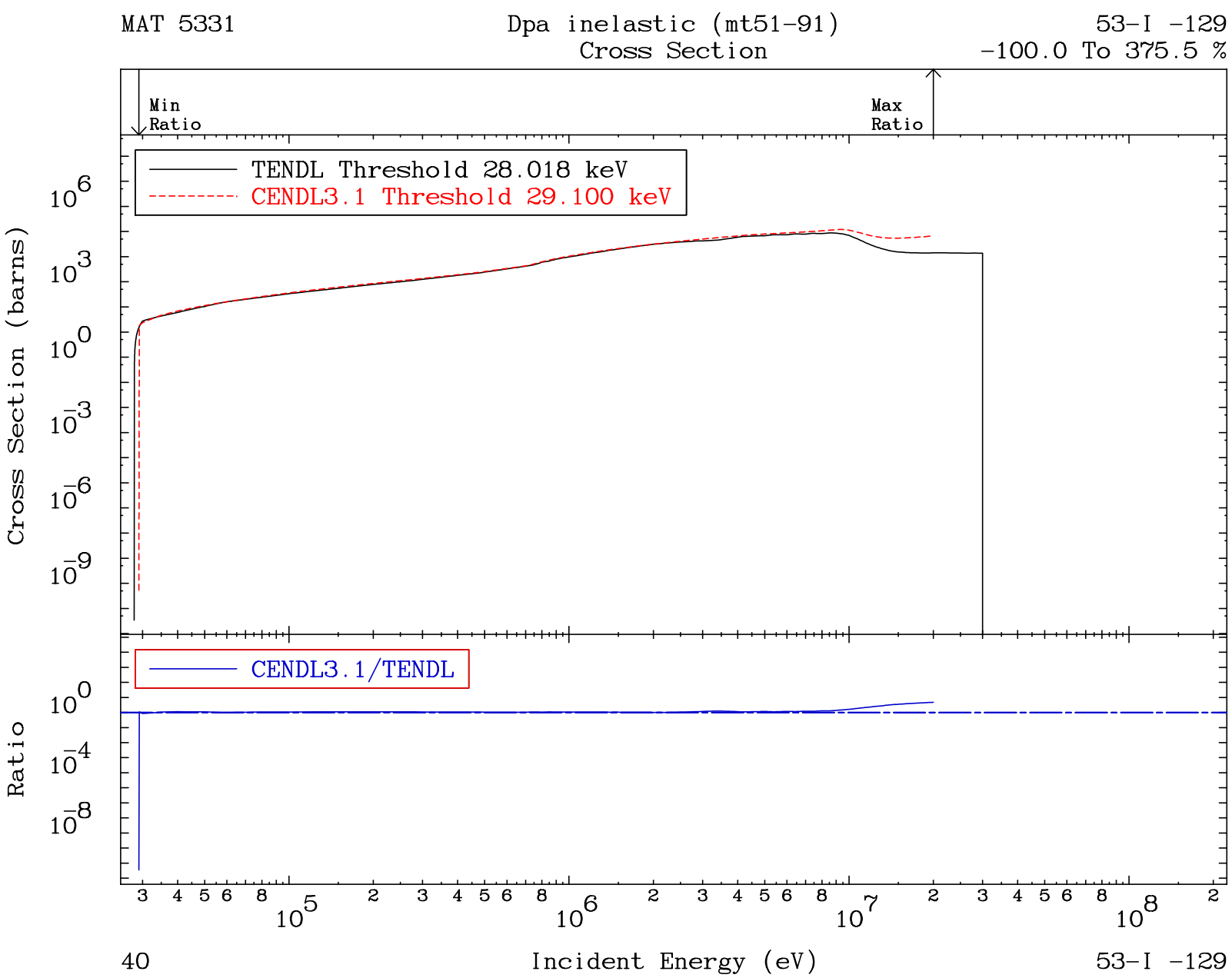

MAT 5331
Kerma capture (mt102)
Cross Section
53-I -129
-99.76 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
35
53-I -129

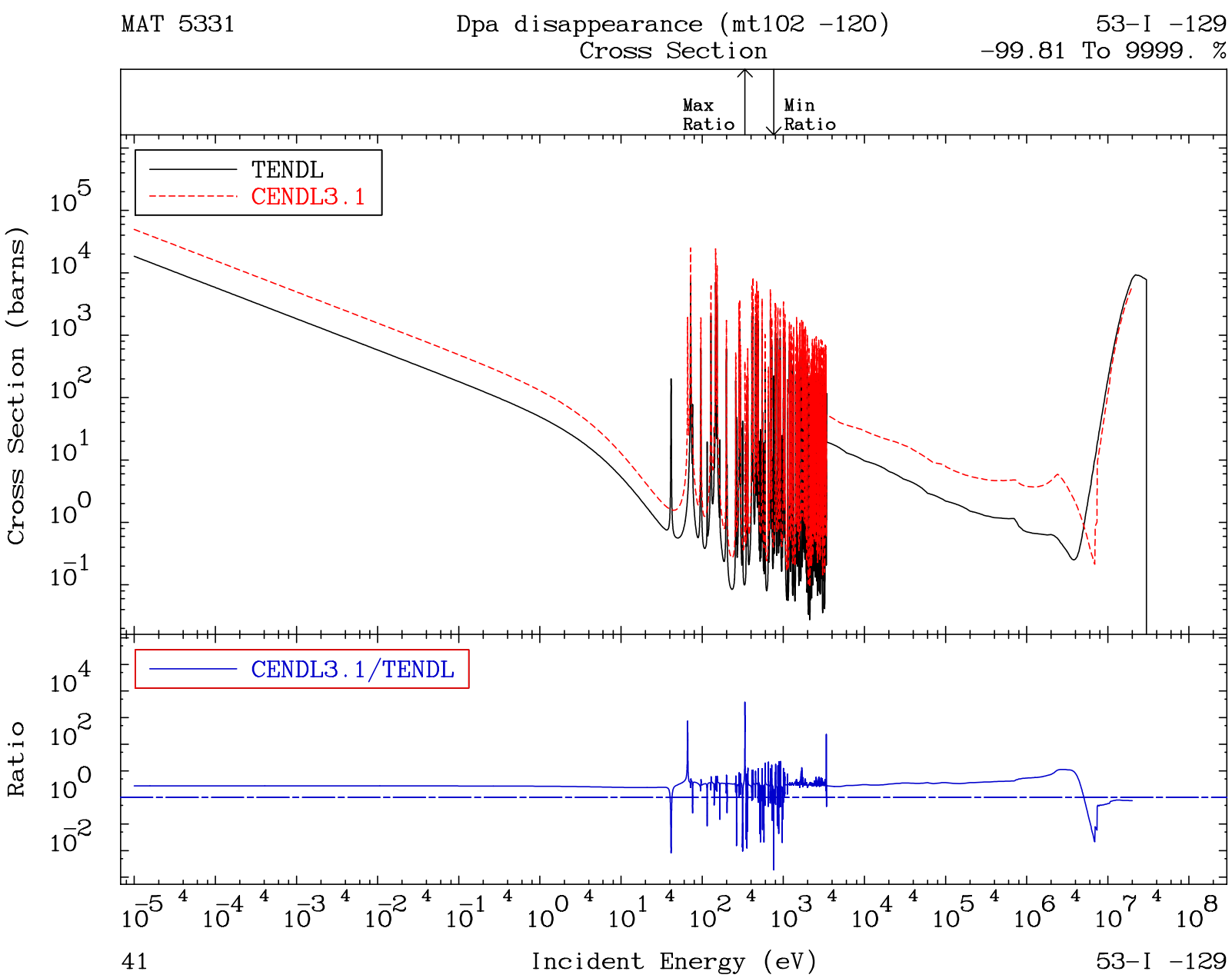

MAT 5331
Total photon (eV-barns)
Cross Section
53-I -129
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
36
53-I -129

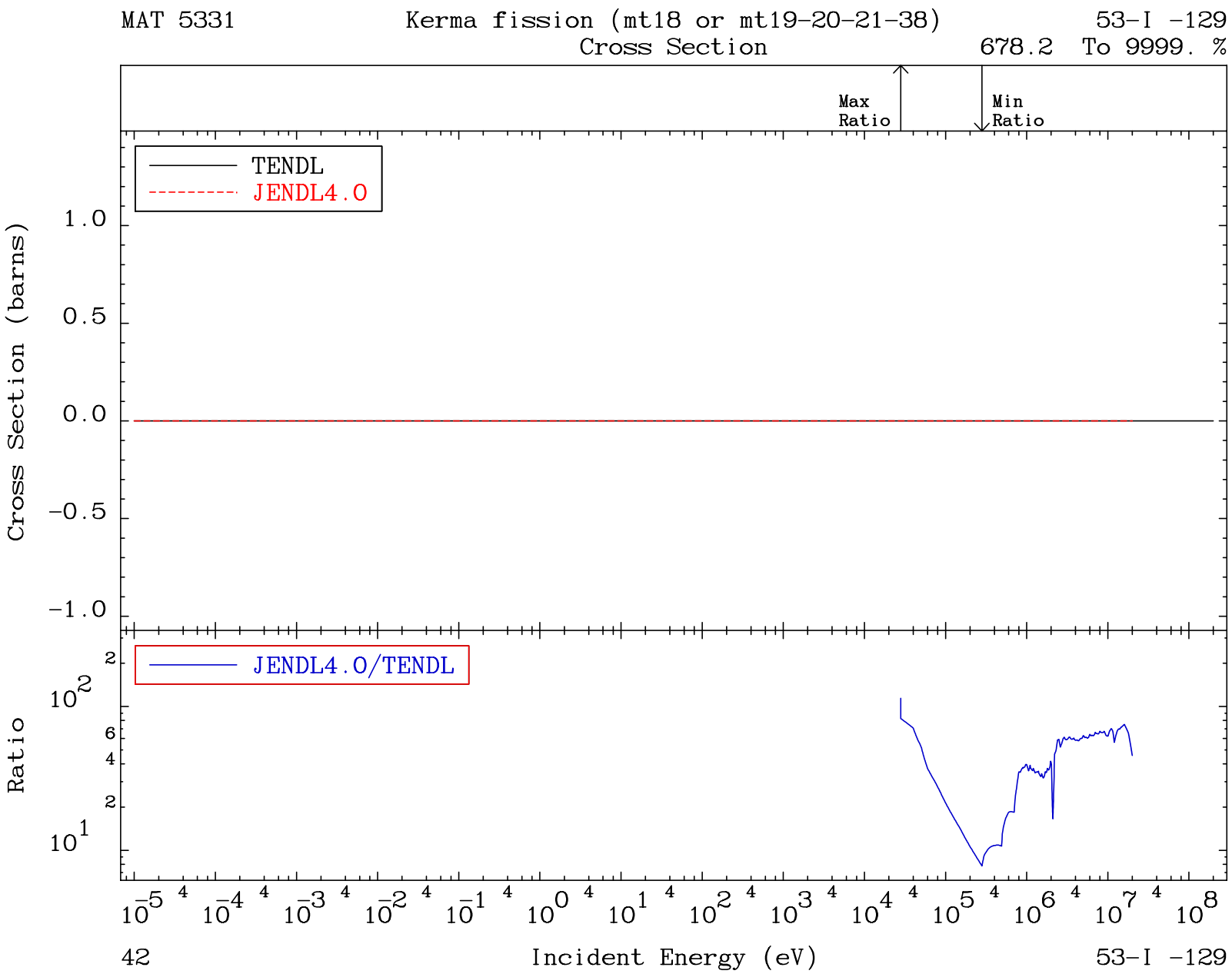

MAT 5331
Total kinematic kerma (high limit)
Cross Section
53-I -129
-98.25 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
37
53-I -129

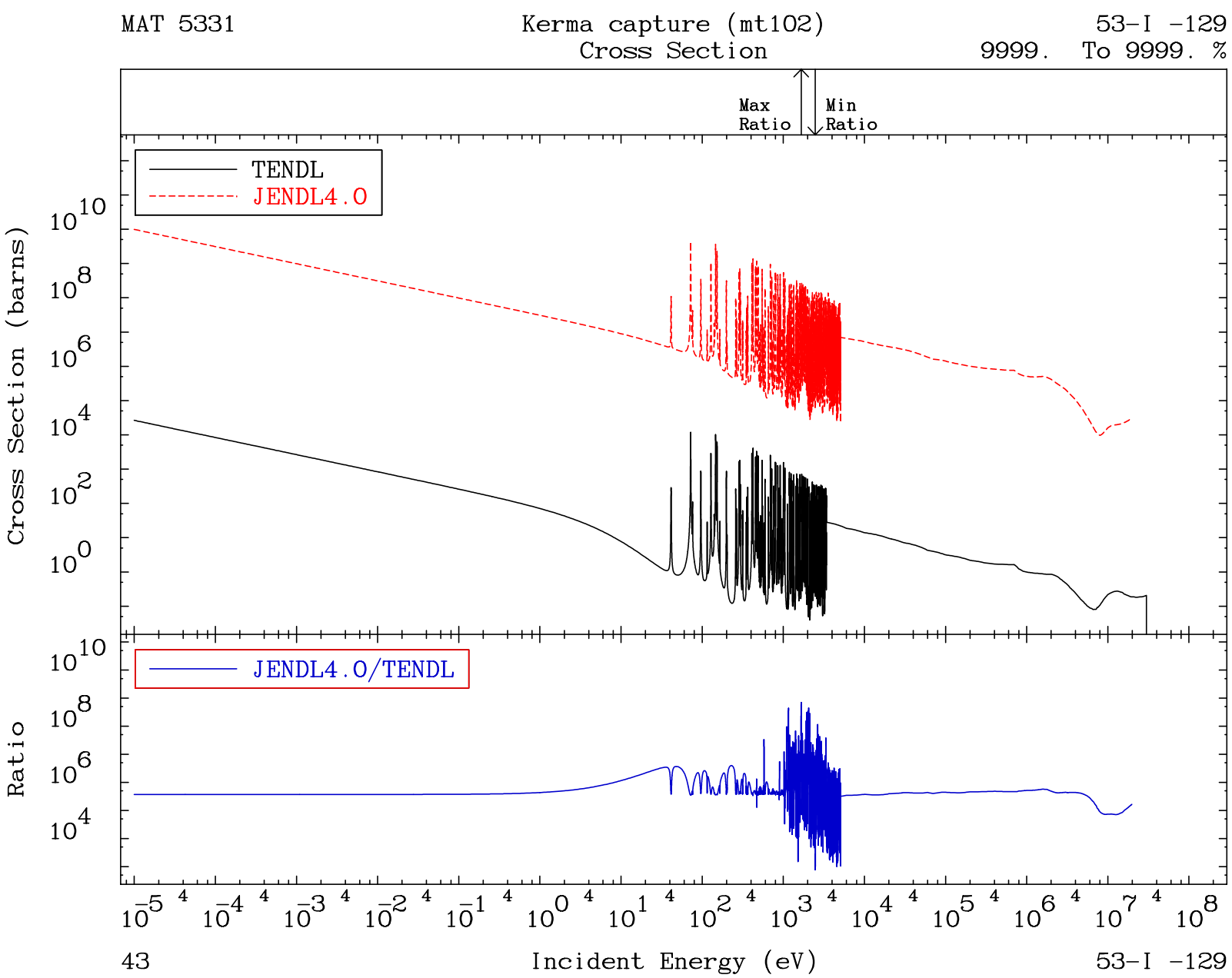

MAT 5331
Dpa total (eV-barns)
Cross Section
53-I -129
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
38
53-I -129

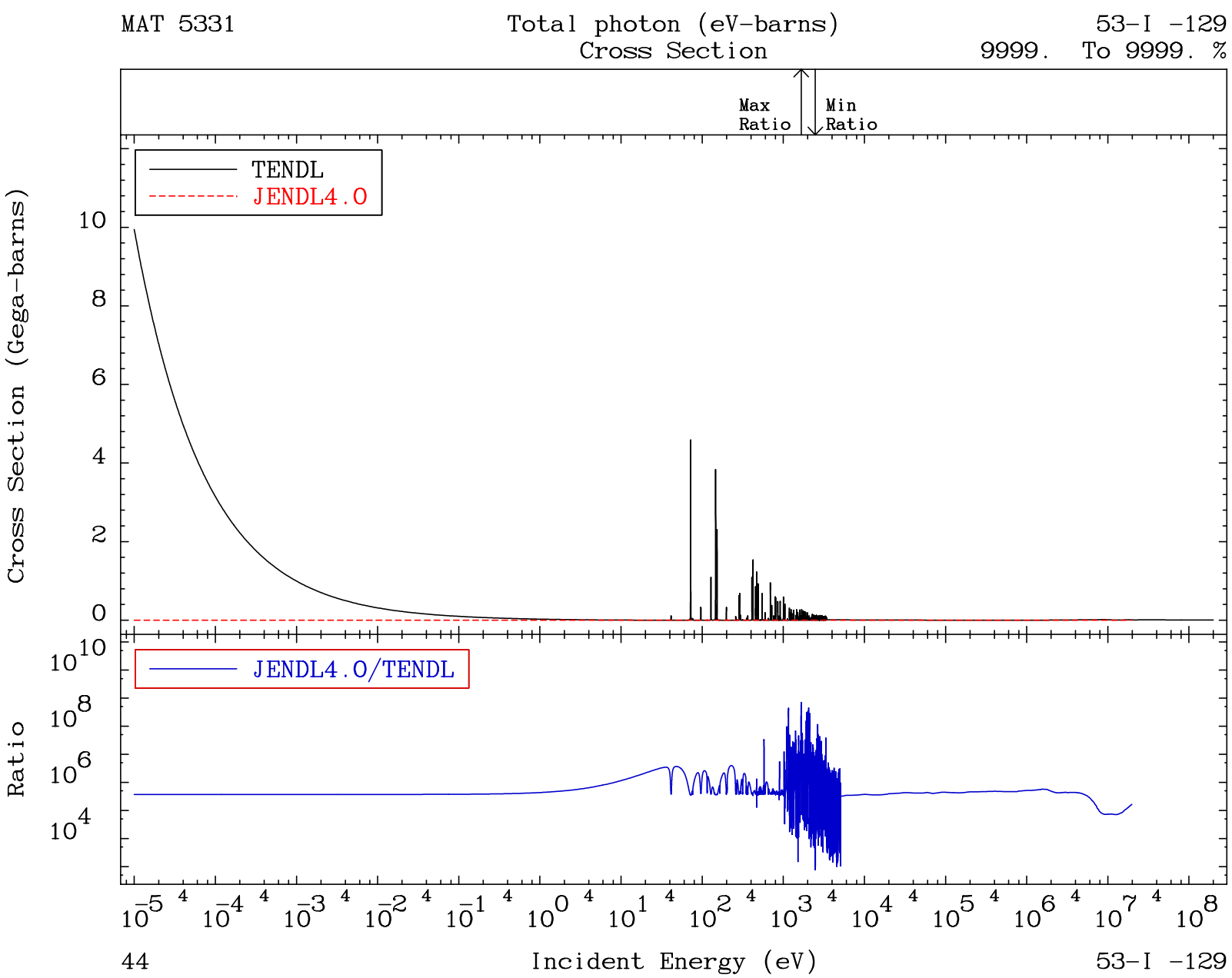

MAT 5331
Dpa elastic (mt2)
Cross Section
53-I -129
-99.56 To 613.7 %
Max
Ratio
TENDL Threshold 740.49 eV
CENDL3.1 Threshold 805.39 eV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
39
53-I -129

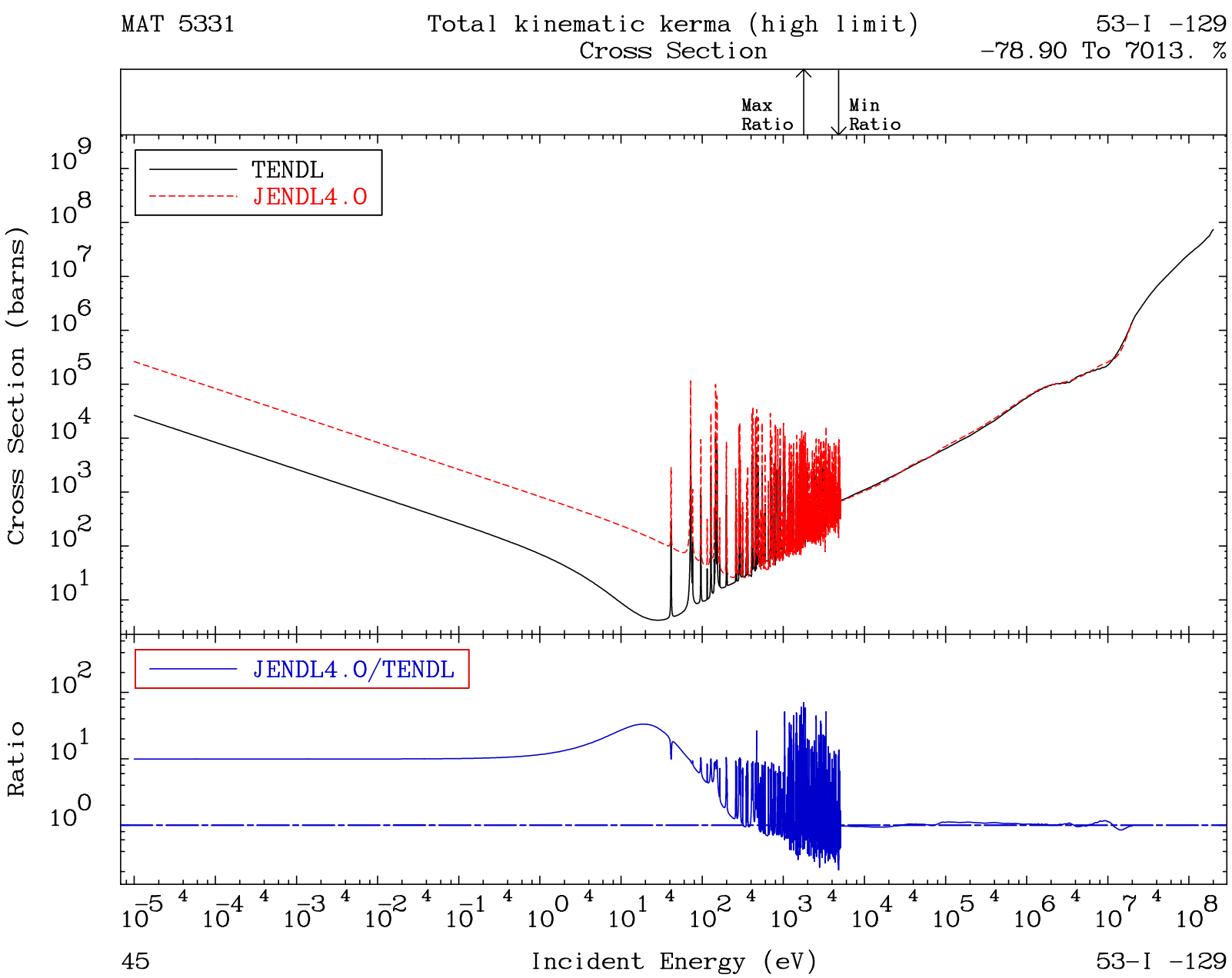

MAT 5331
Dpa inelastic (mt51-91)
Cross Section
53-I -129
-100.0 To 375.5 %
Min Ratio
Max Ratio
TENDL Threshold 28.018 keV
CENDL3.1 Threshold 29.100 keV
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
40
53-I -129

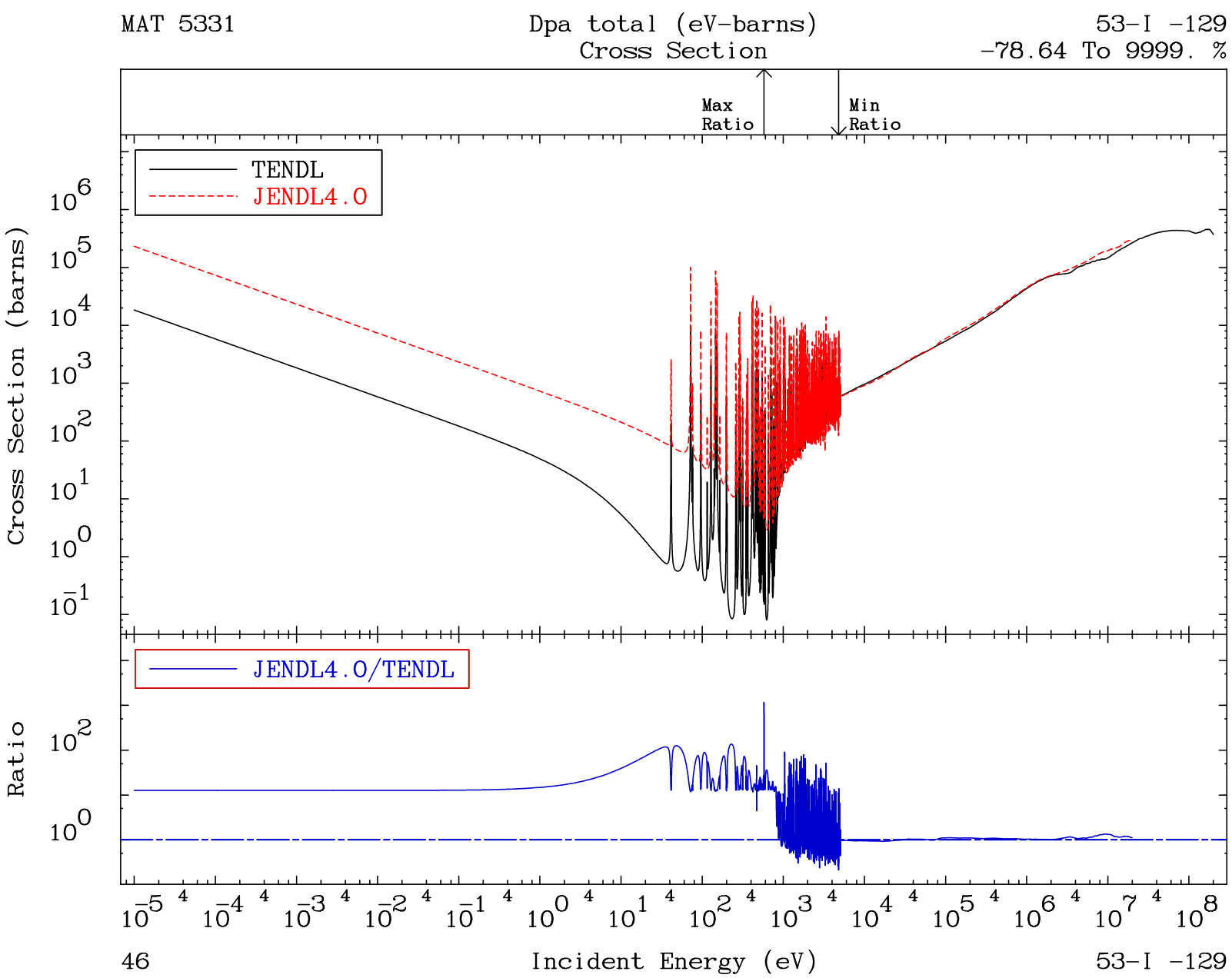

MAT 5331
Dpa disappearance (mt102 -120)
Cross Section
53-I -129
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.1
Cross Section (barns)
CENDL3.1/TENDL
Ratio
Incident Energy (eV)
41
53-I -129

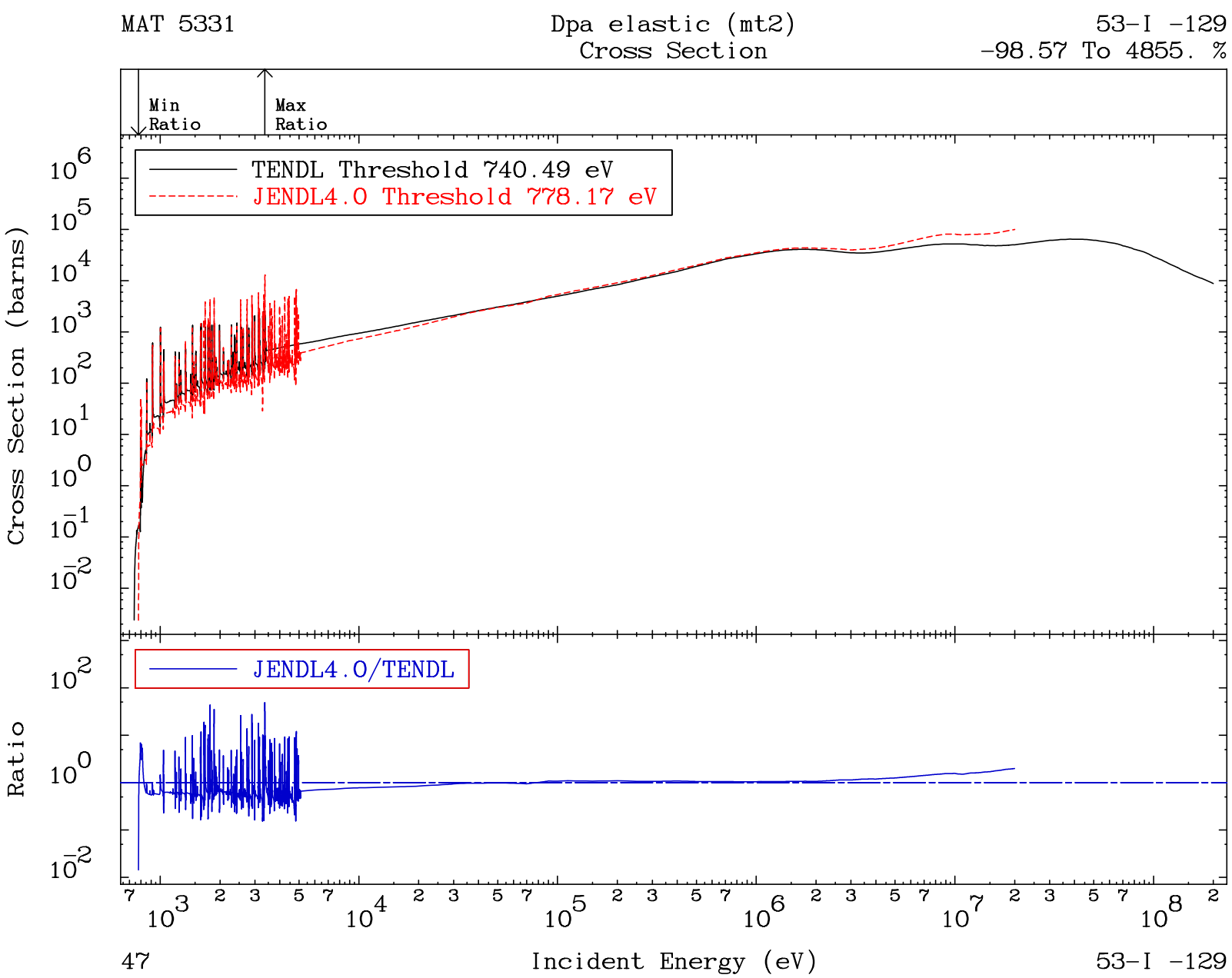

MAT 5331
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
53-I -129
678.2 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
53-I -129

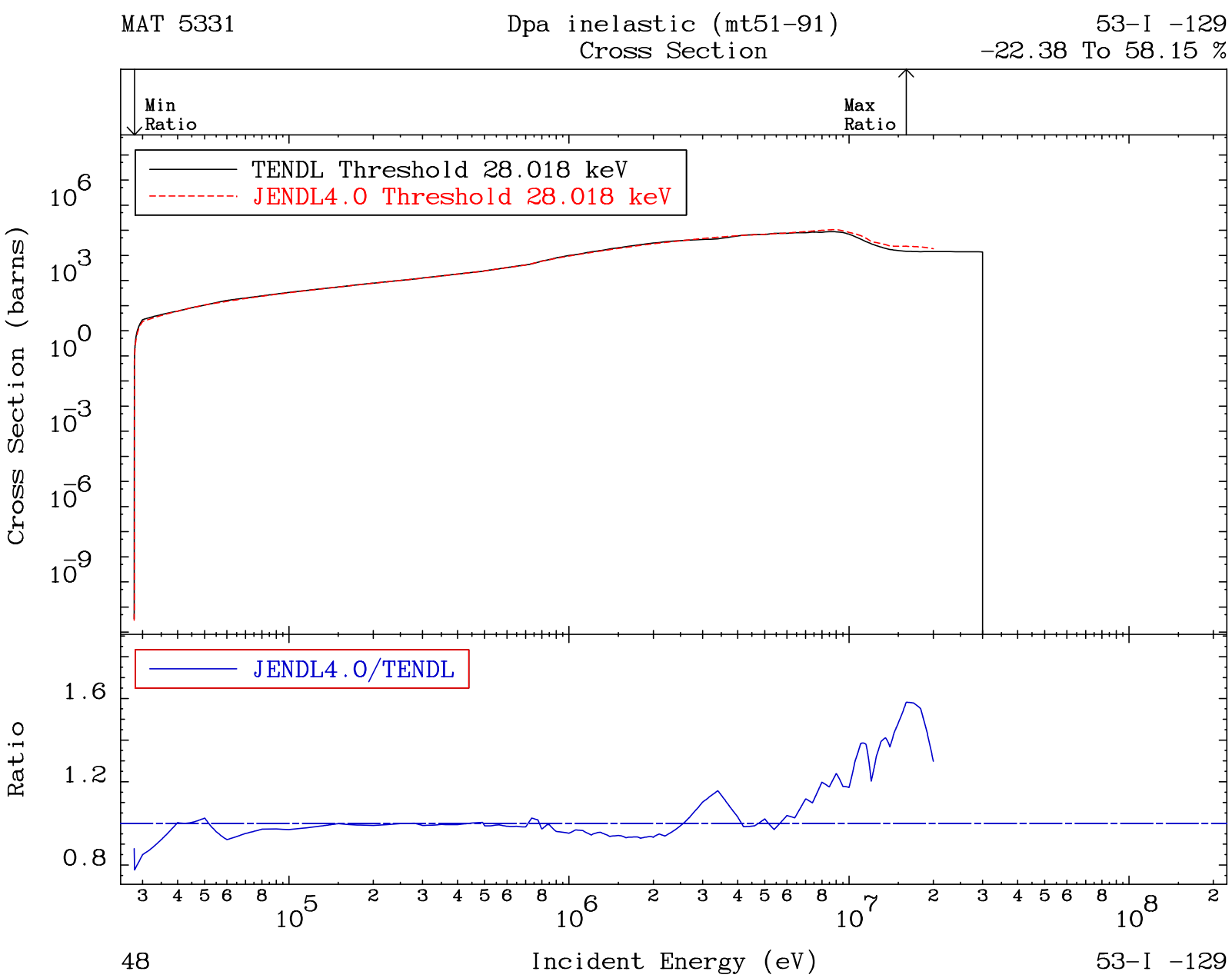

MAT 5331
Kerma capture (mt102)
Cross Section
53-I -129
9999. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
43
53-I -129

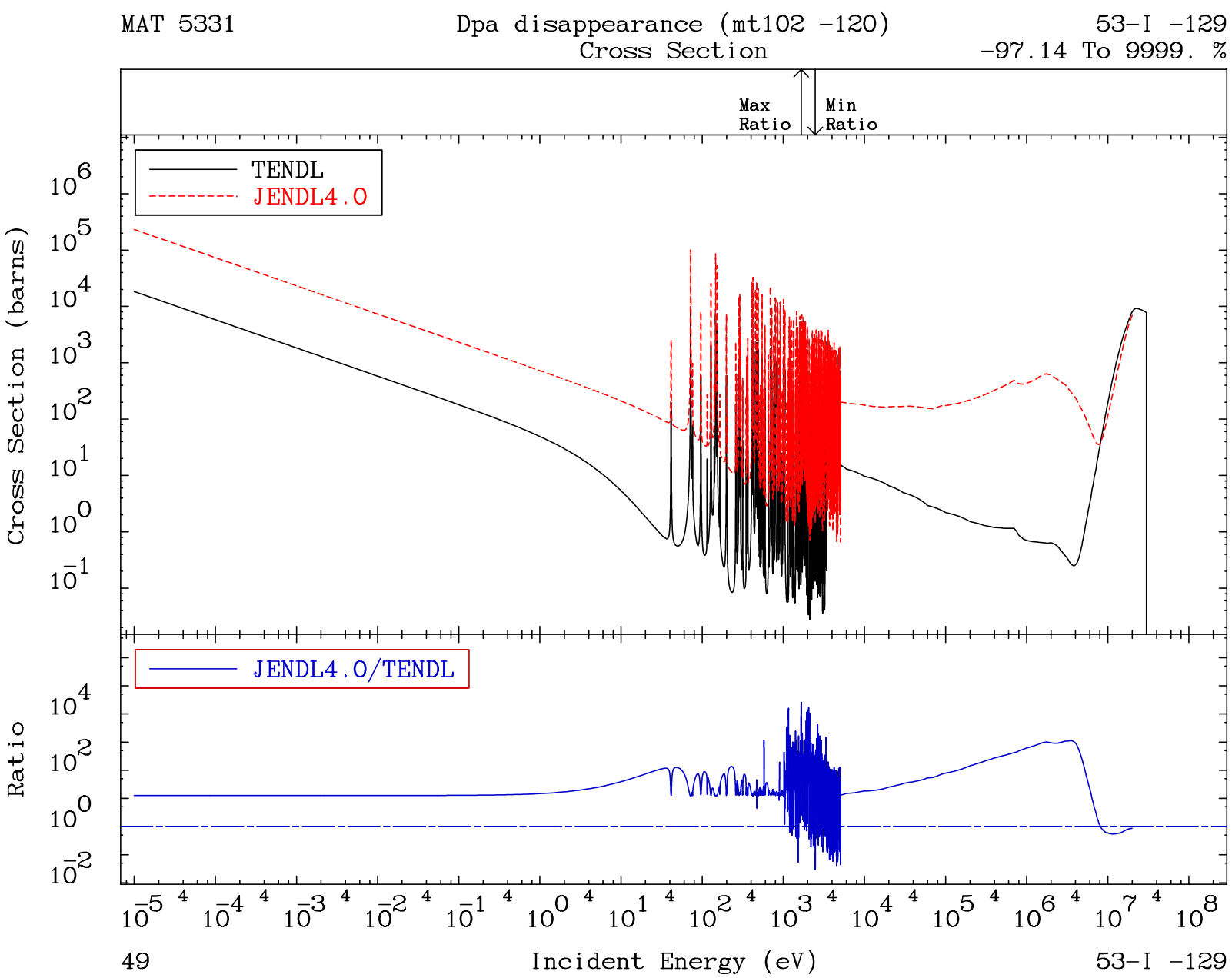

MAT 5331
Total photon (eV-barns)
Cross Section
53-I -129
9999. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (Giga-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
44
53-I -129

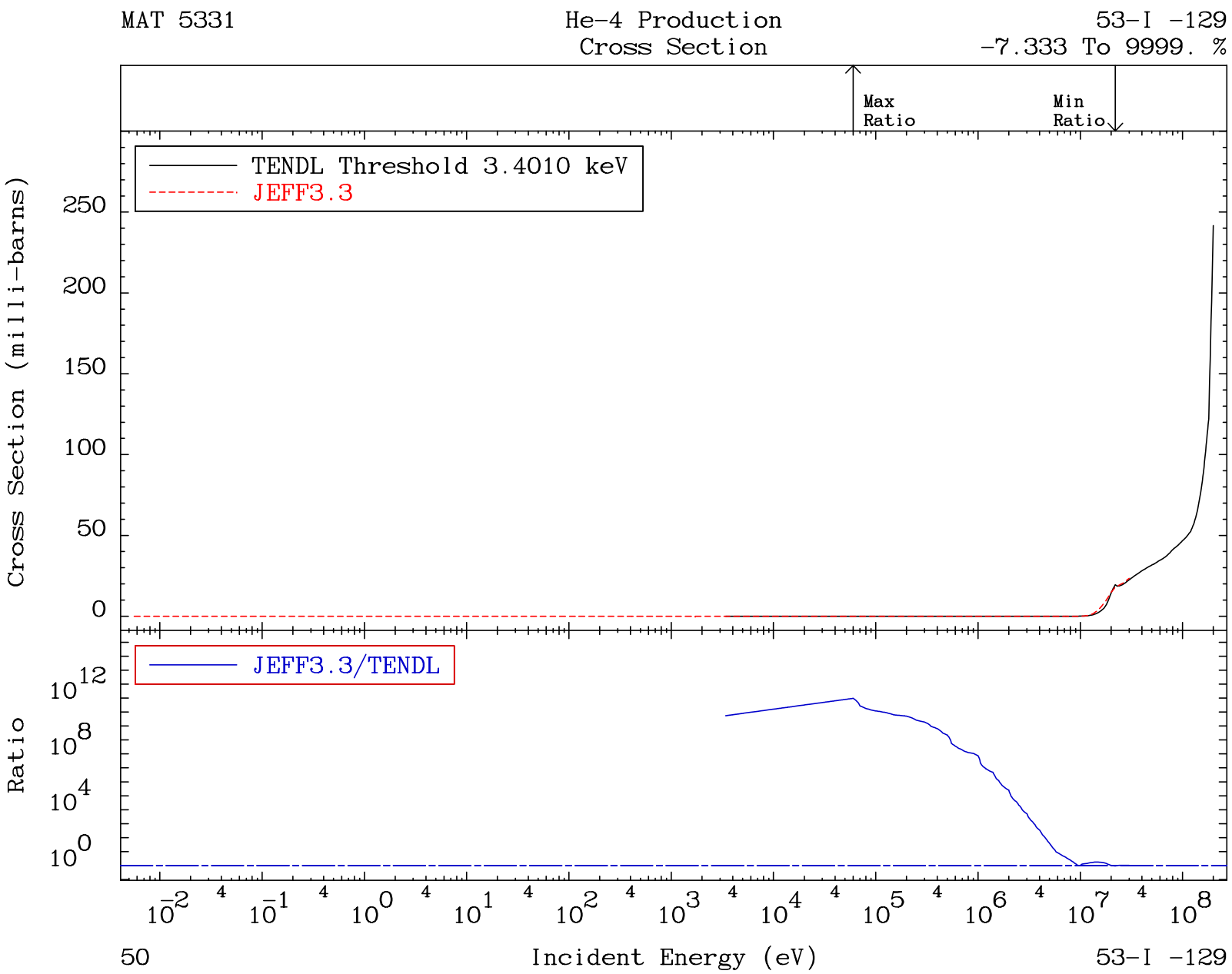

MAT 5331
Total kinematic kerma (high limit)
Cross Section
53-I -129
-78.90 To 7013. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
45
53-I -129

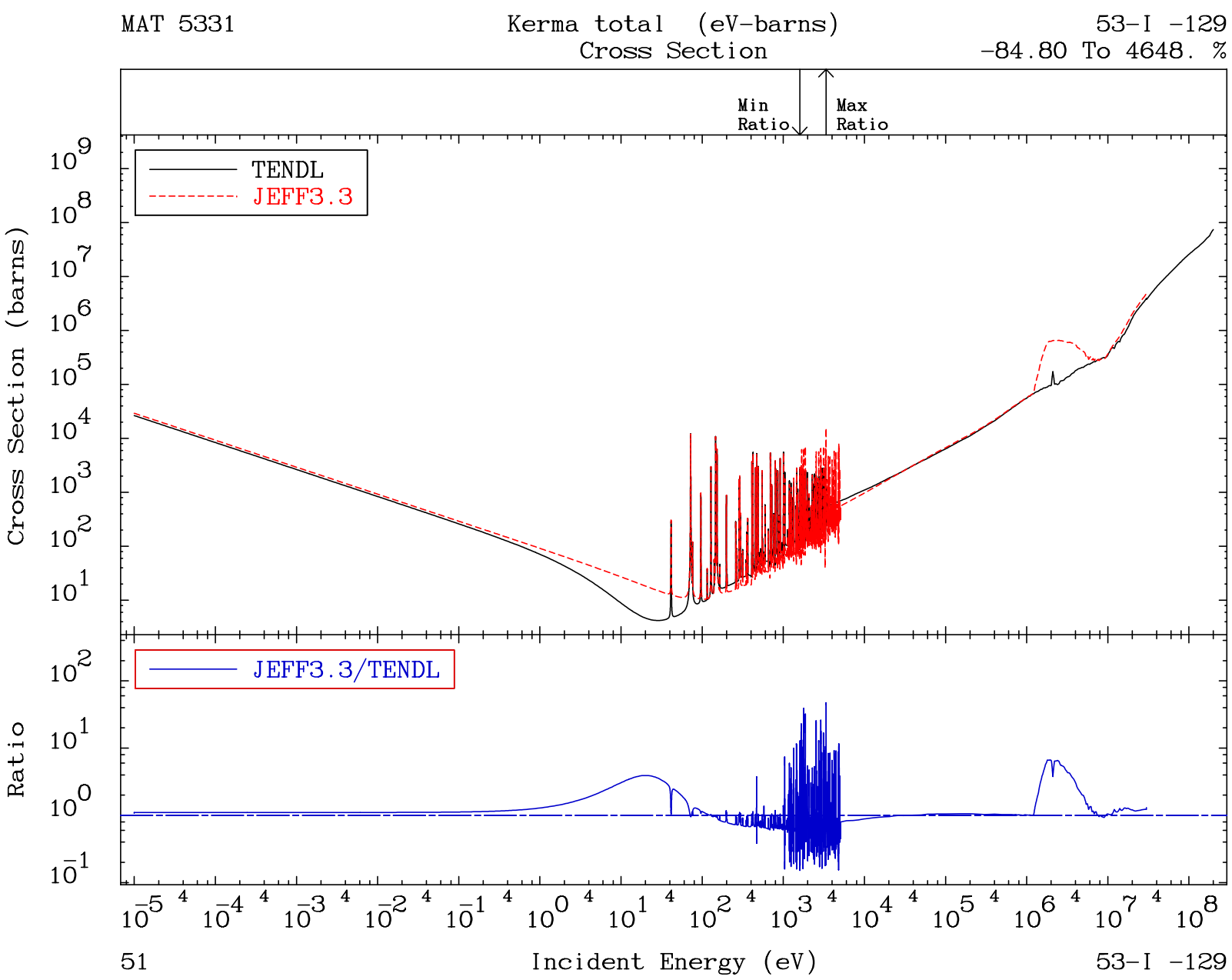

MAT 5331
Dpa total (eV-barns)
Cross Section
53-I -129
-78.64 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
46
53-I -129

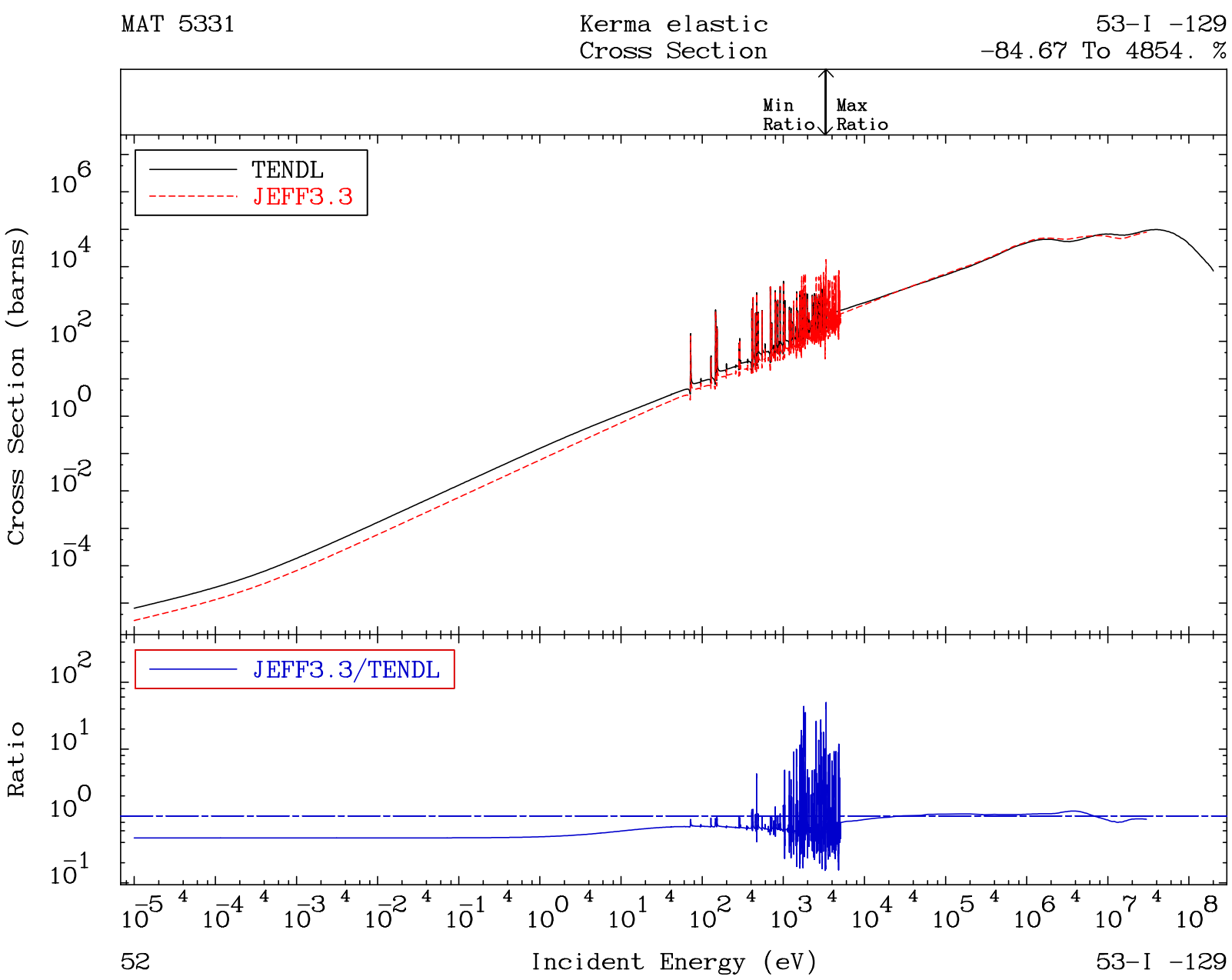

MAT 5331
Dpa elastic (mt2)
Cross Section
53-I -129
-98.57 To 4855. %
Min Ratio
Max Ratio
TENDL Threshold 740.49 eV
JENDL4.0 Threshold 778.17 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
47
53-I -129

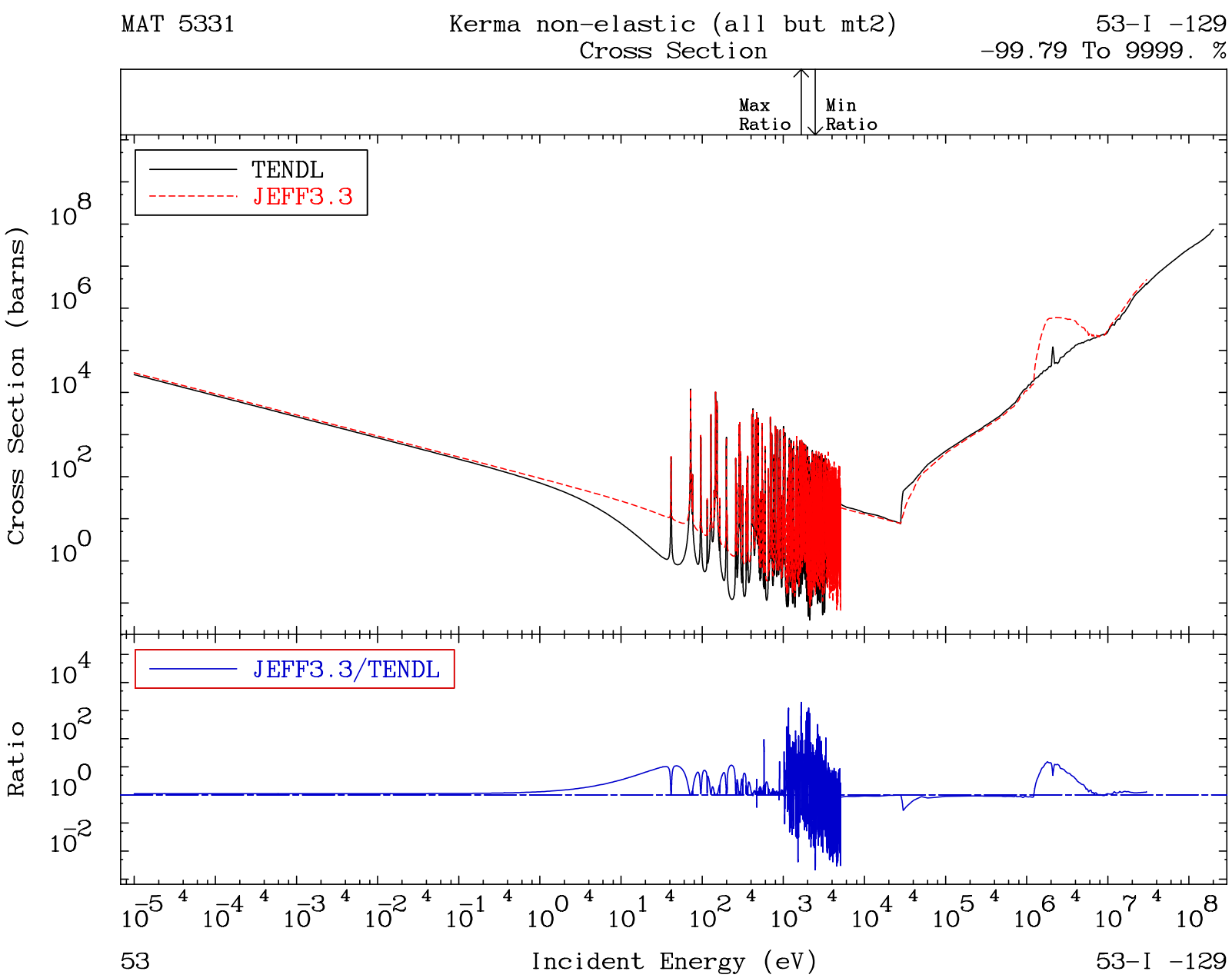

MAT 5331
Dpa inelastic (mt51-91)
Cross Section
53-I -129
-22.38 To 58.15 %
Min Ratio
Max Ratio
TENDL Threshold 28.018 keV
JENDL4.0 Threshold 28.018 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
48
53-I -129

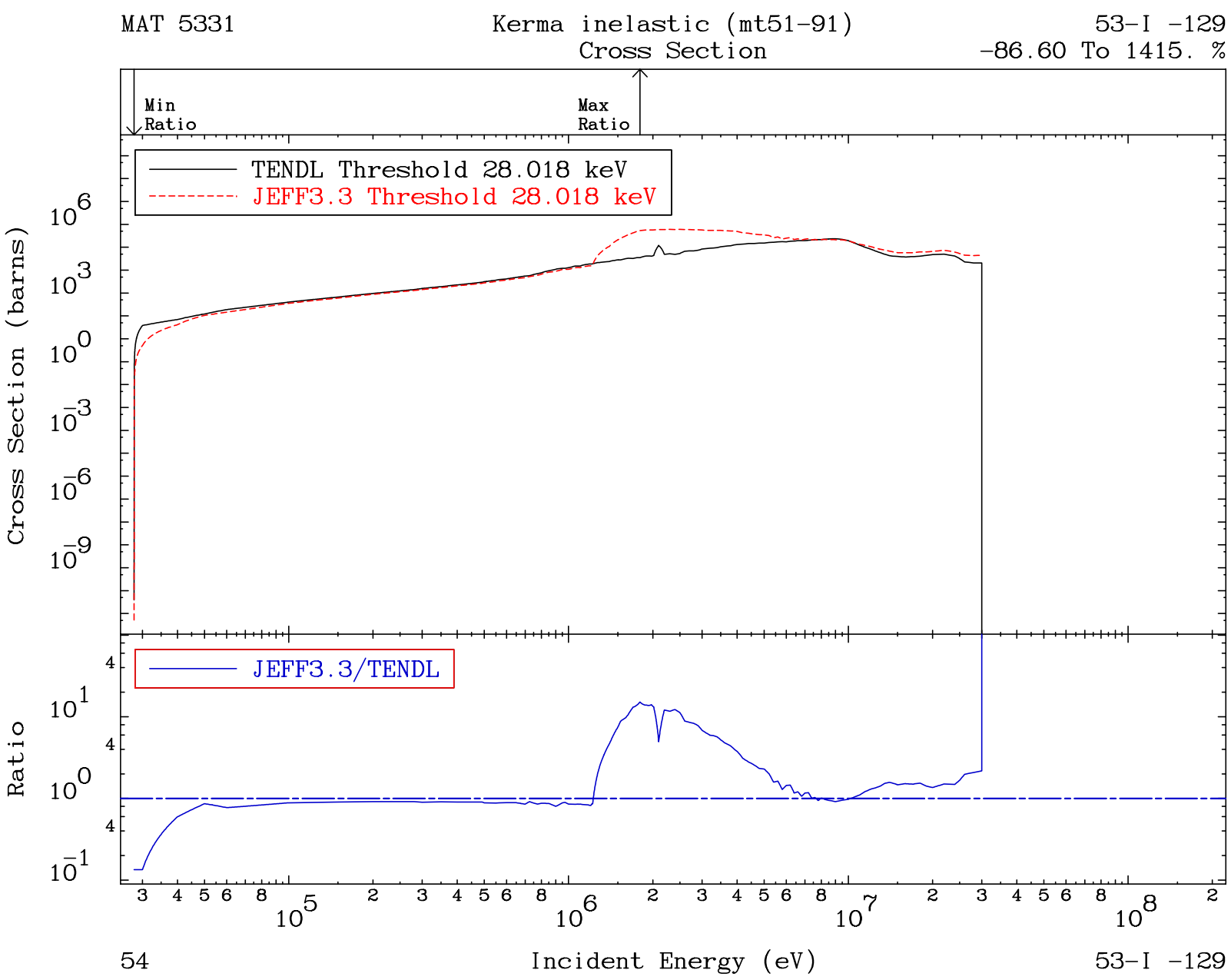

MAT 5331
Dpa disappearance (mt102 -120)
Cross Section
53-I -129
-97.14 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
49
53-I -129

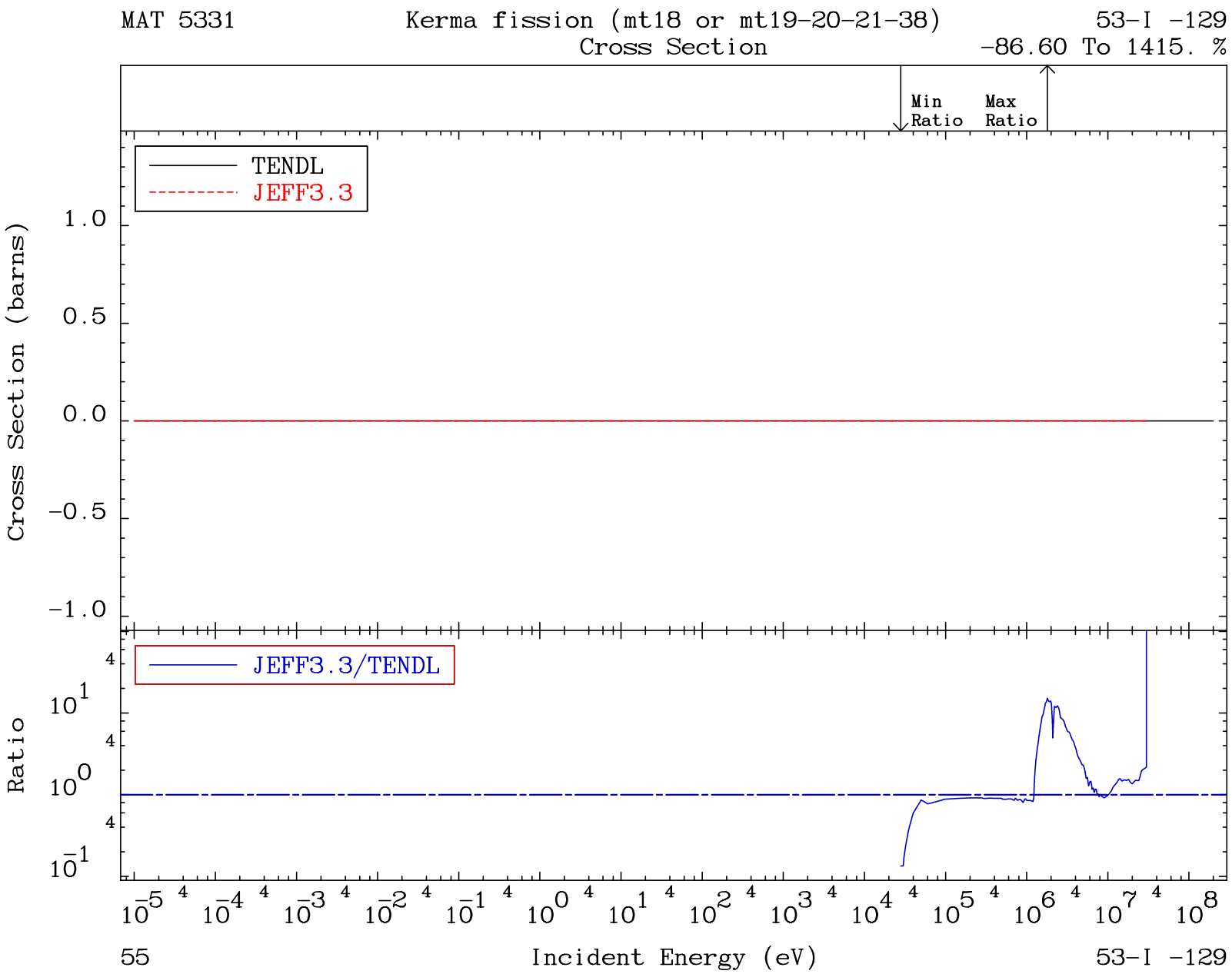

MAT 5331
He-4 Production
Cross Section
53-I -129
-7.333 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4010 keV
JEFF3.3
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^12
10^8
10^4
10^0
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
50
Incident Energy (eV)
53-I -129

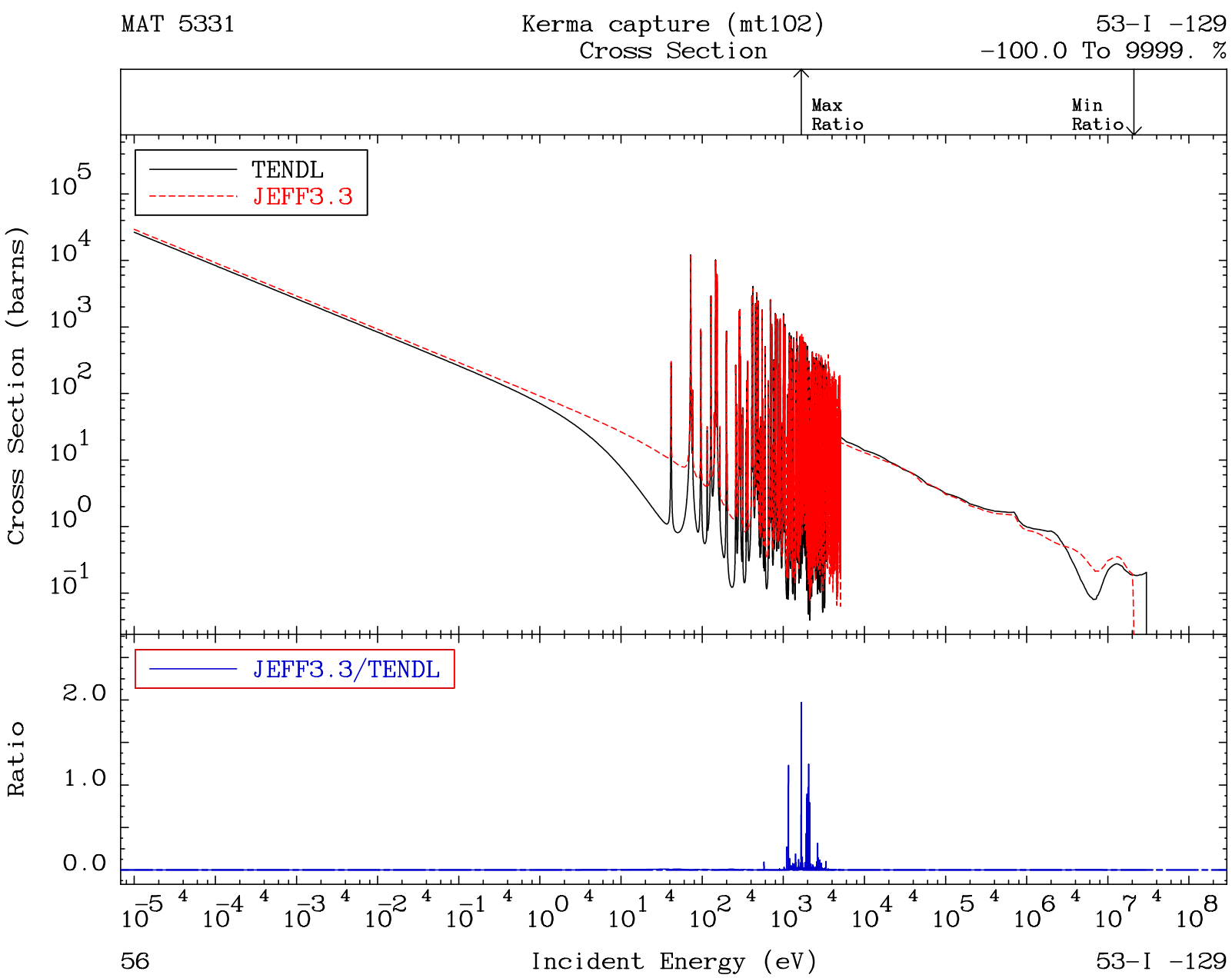

MAT 5331
Kerma total (eV-barns)
Cross Section
53-I -129
-84.80 To 4648. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
53-I -129

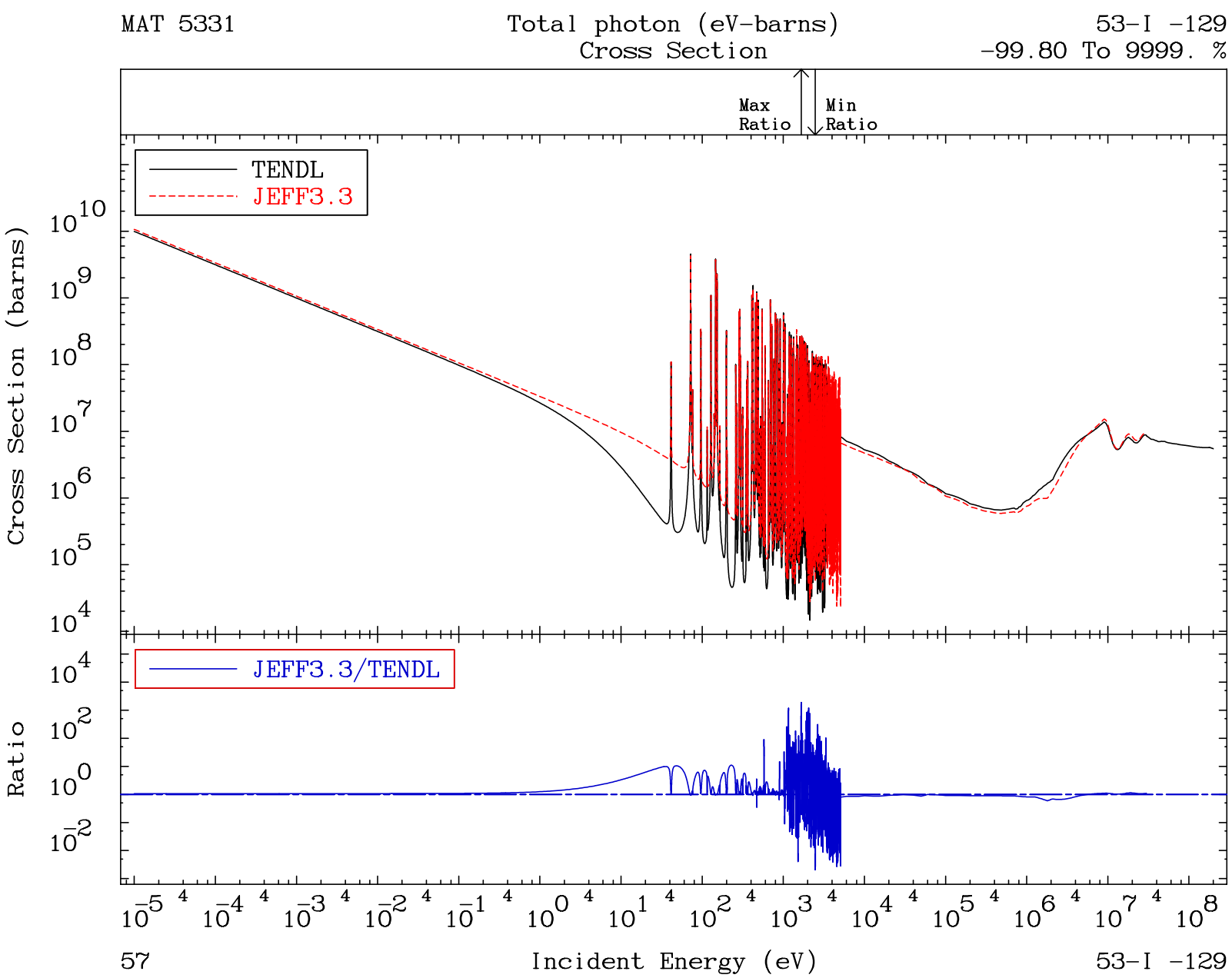

MAT 5331
Kerma elastic
Cross Section
53-I -129
-84.67 To 4854. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
52
53-I -129

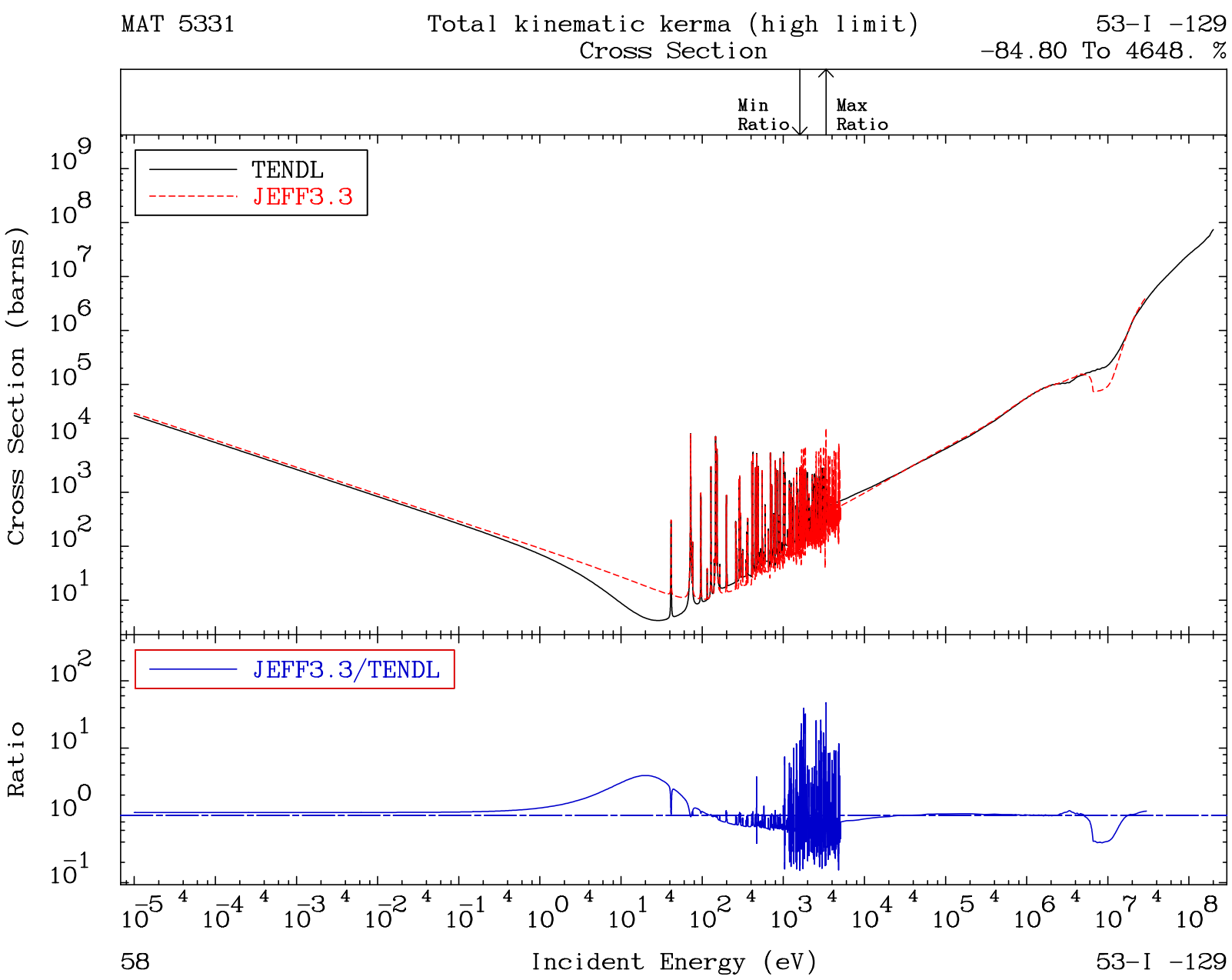

MAT 5331
Kerma non-elastic (all but mt2)
Cross Section
53-I -129
-99.79 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
53
53-I -129

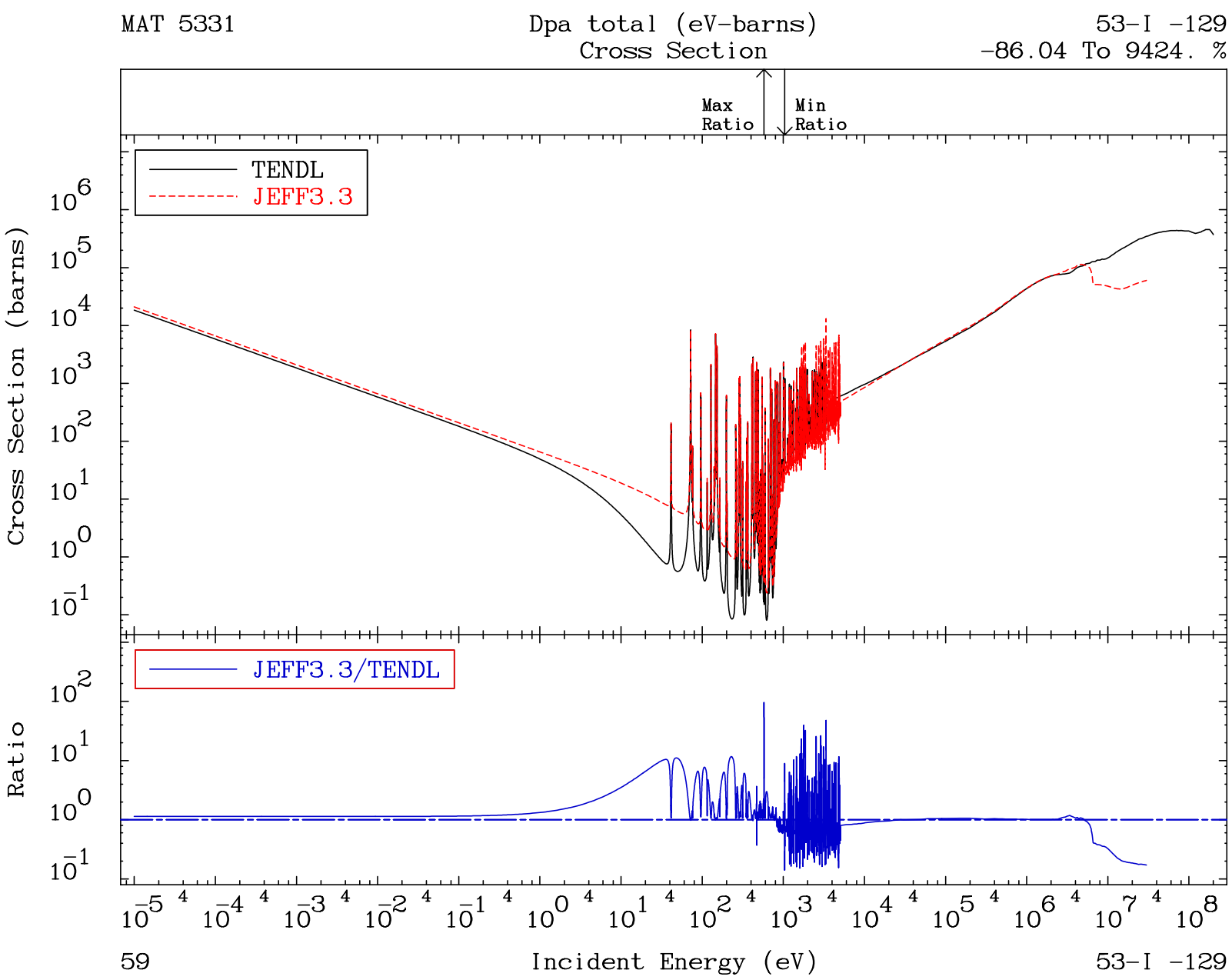

MAT 5331
Kerma inelastic (mt51-91)
Cross Section
53-I -129
-86.60 To 1415. %
Min Ratio
Max Ratio
TENDL Threshold 28.018 keV
JEFF3.3 Threshold 28.018 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
54
53-I -129

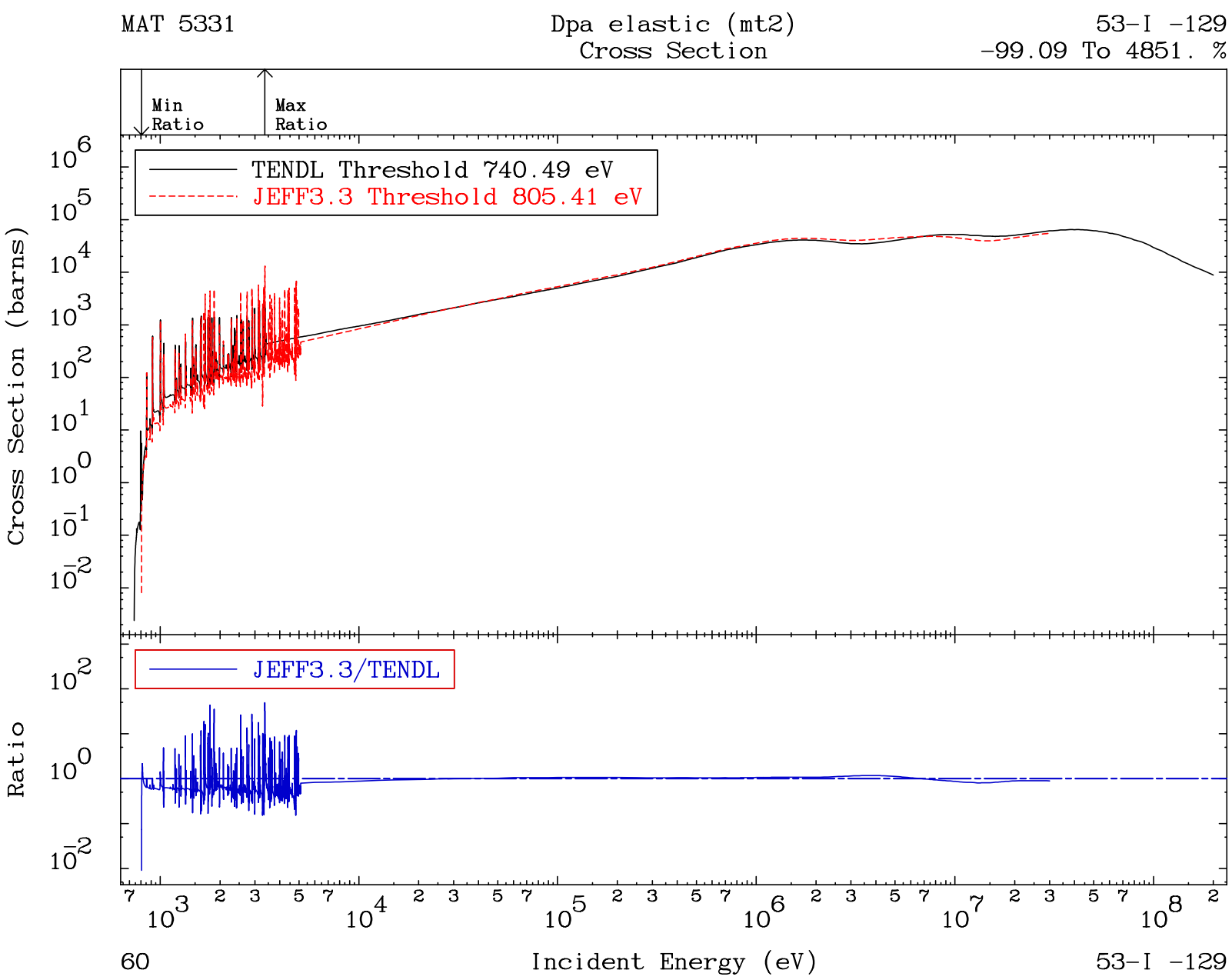

MAT 5331
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
53-I -129
-86.60 To 1415. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
55
53-I -129

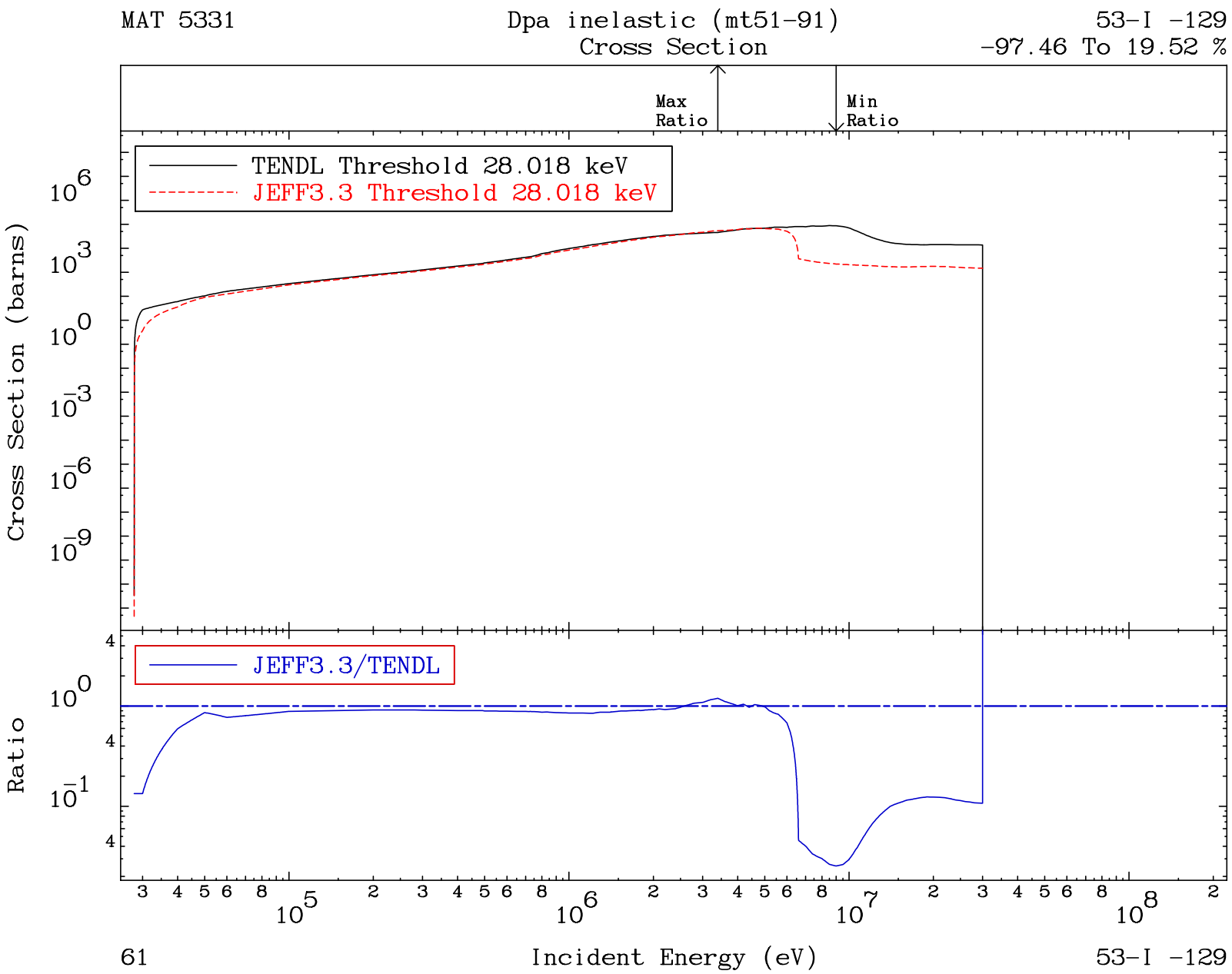

MAT 5331
Kerma capture (mt102)
Cross Section
53-I -129
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
56
53-I -129

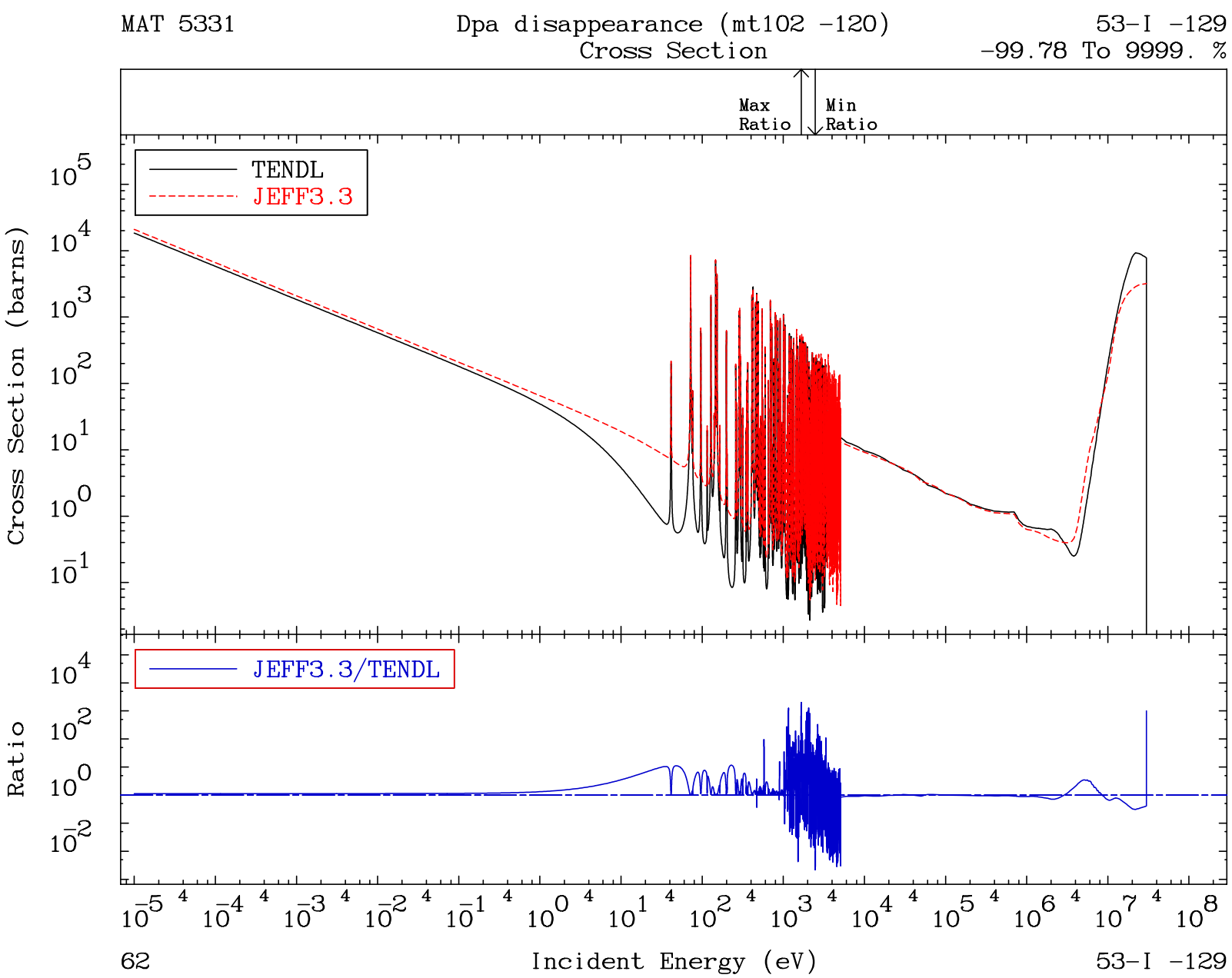

MAT 5331
Total photon (eV-barns)
Cross Section
53-I -129
-99.80 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
57
53-I -129

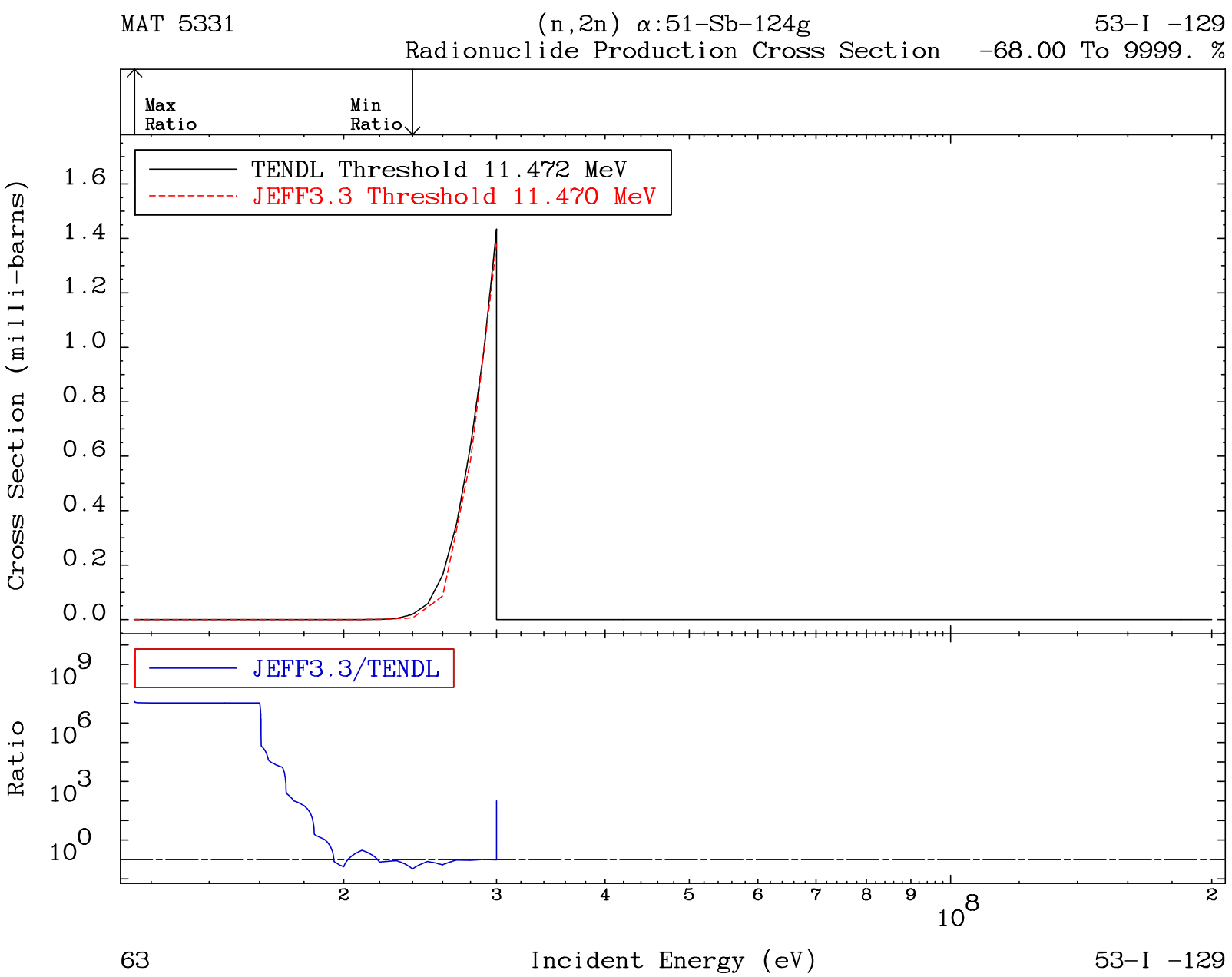

MAT 5331
Total kinematic kerma (high limit)
Cross Section
53-I -129
-84.80 To 4648. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
58
53-I -129

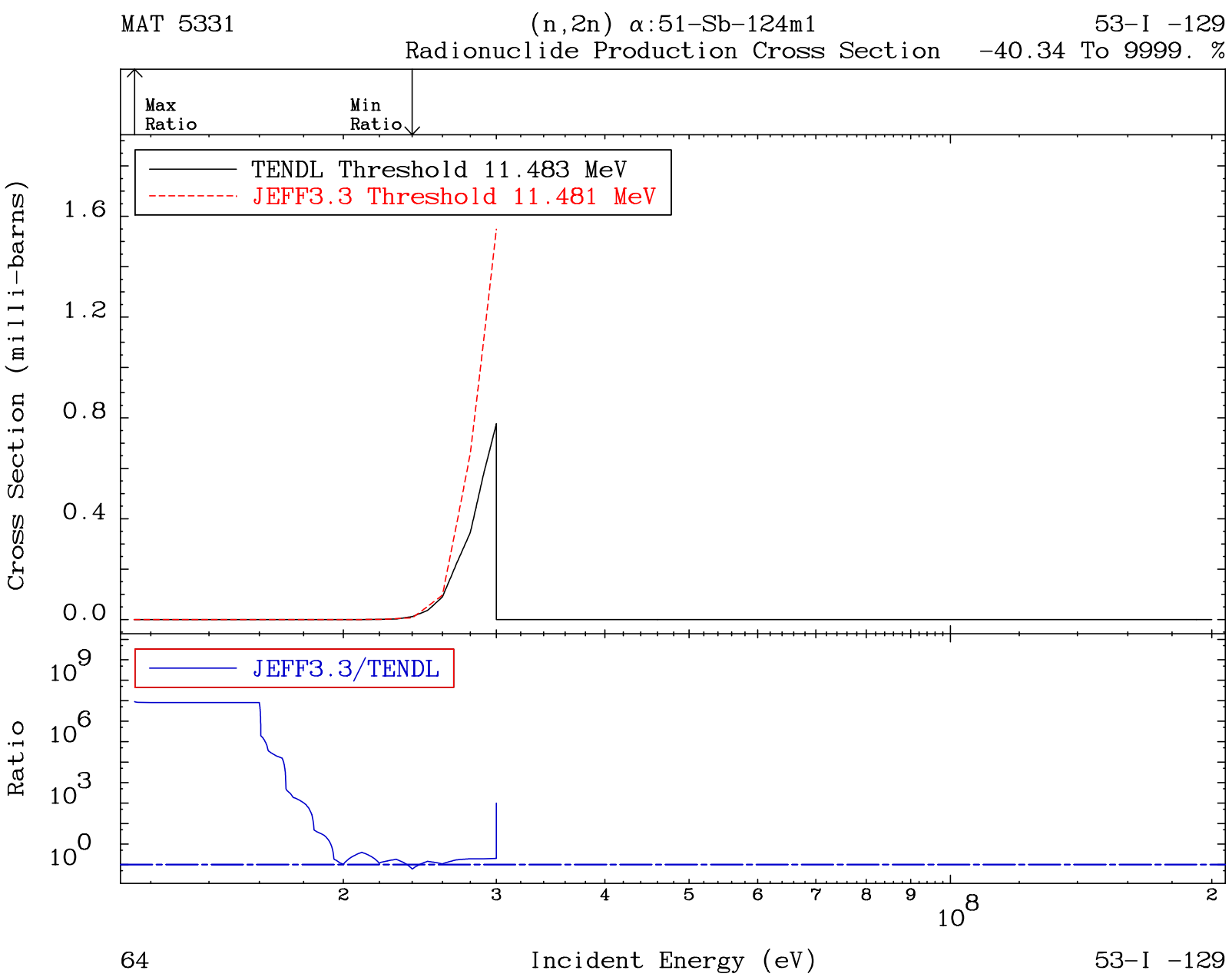

MAT 5331
Dpa total (eV-barns)
Cross Section
53-I -129
-86.04 To 9424. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
59
53-I -129

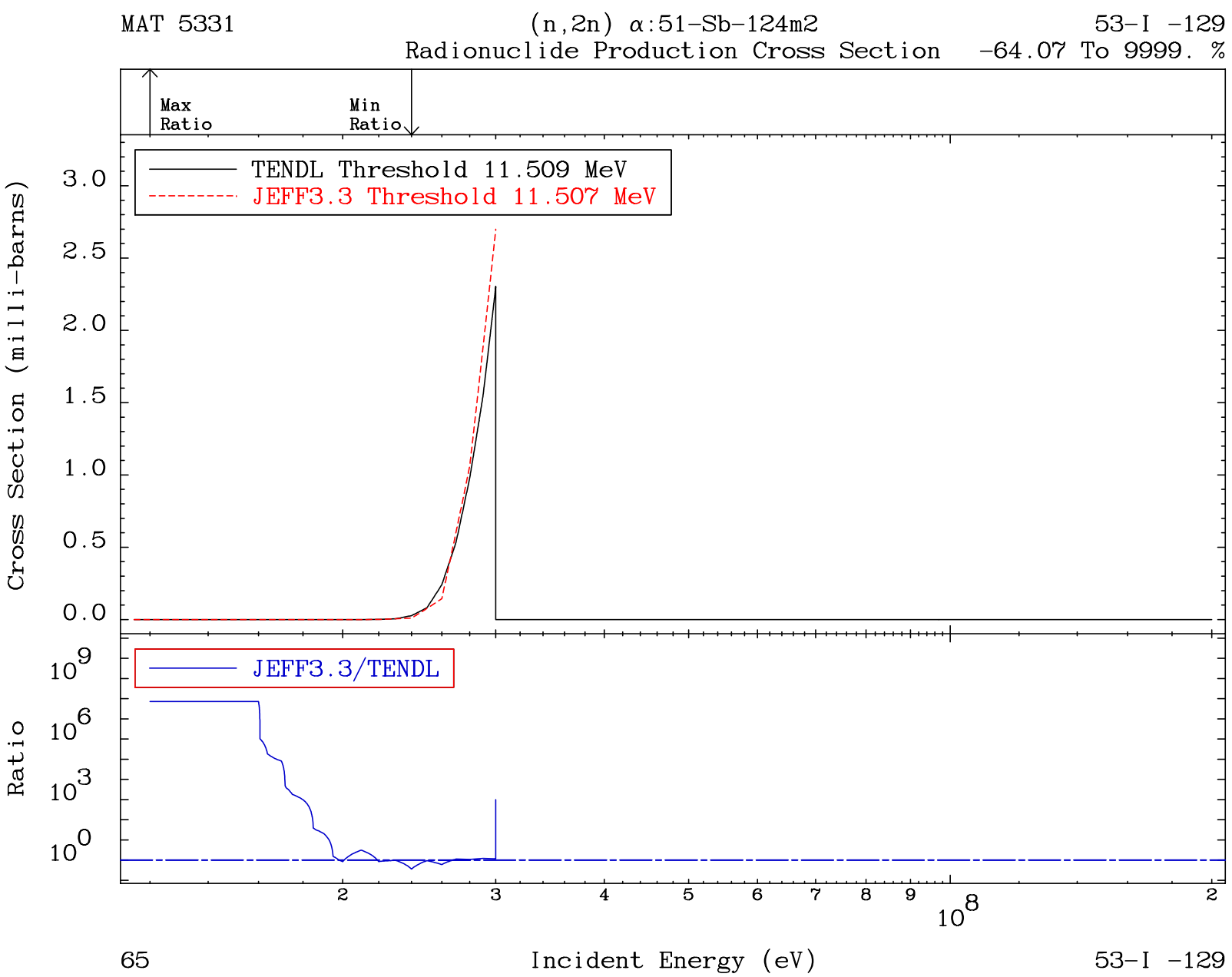

MAT 5331
Dpa elastic (mt2)
Cross Section
53-I -129
-99.09 To 4851. %
Min Ratio
Max Ratio
TENDL Threshold 740.49 eV
JEFF3.3 Threshold 805.41 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
60
53-I -129

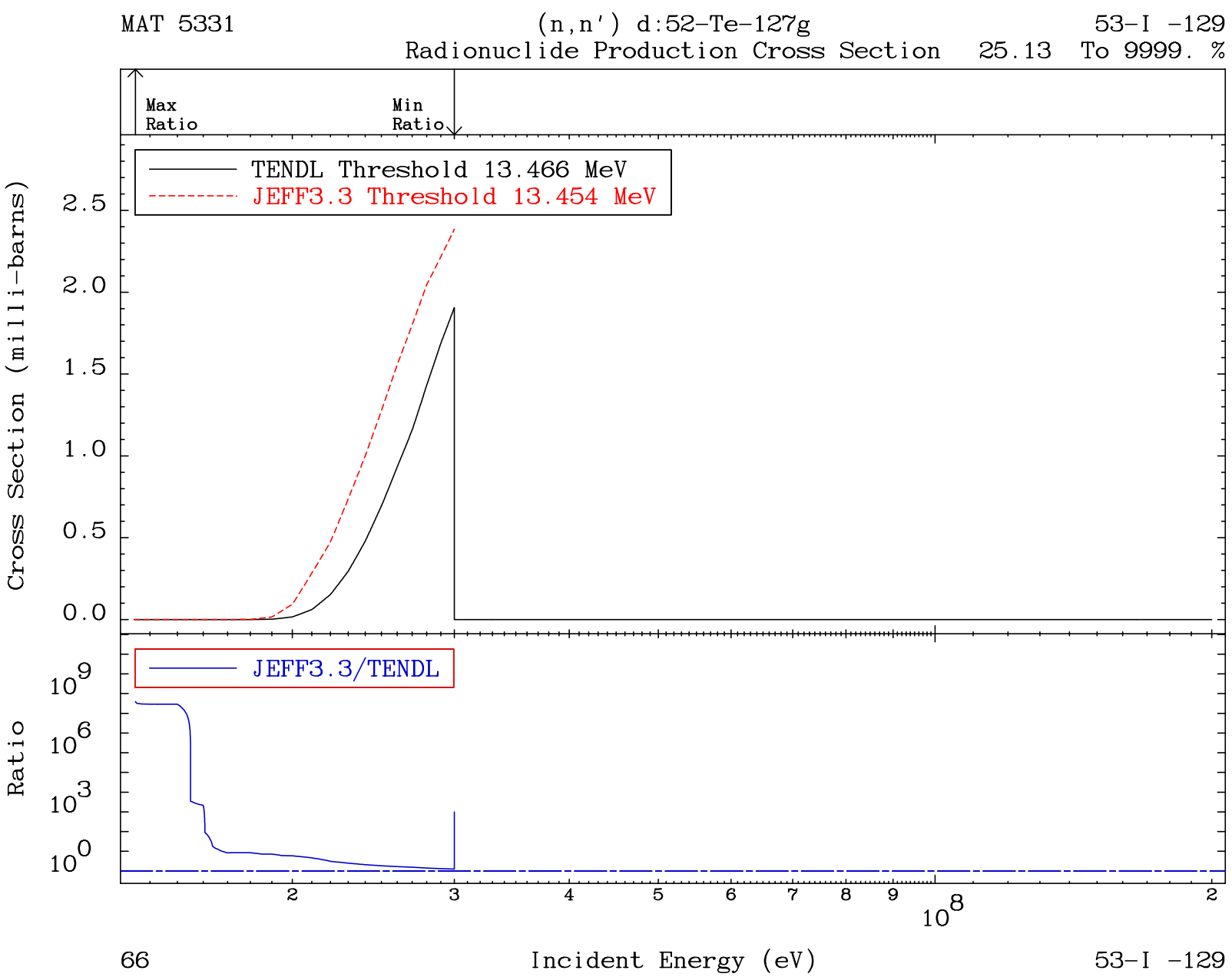

MAT 5331
Dpa inelastic (mt51-91)
Cross Section
53-I -129
-97.46 To 19.52 %
Max Ratio
Min Ratio
TENDL Threshold 28.018 keV
JEFF3.3 Threshold 28.018 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
53-I -129

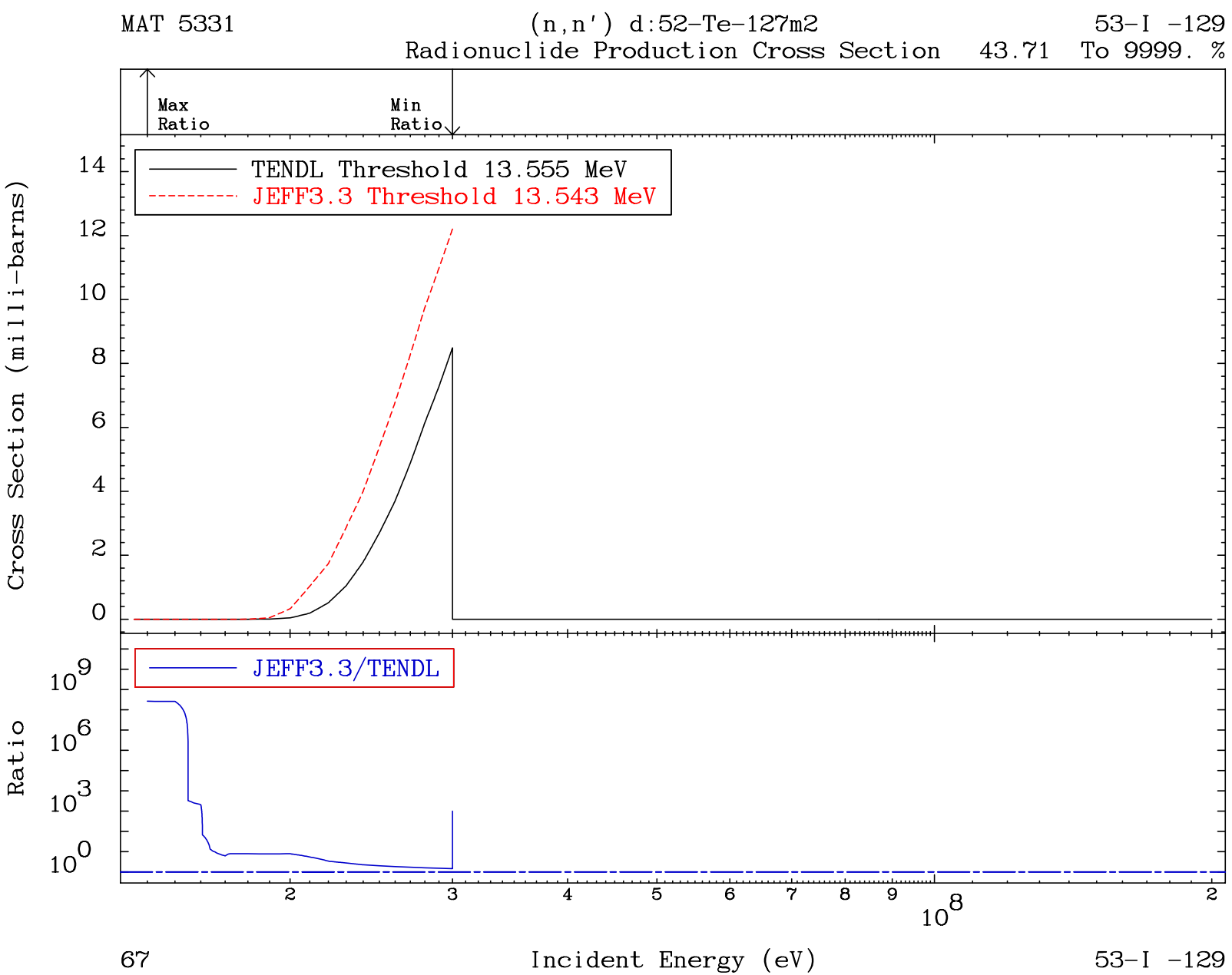

MAT 5331
Dpa disappearance (mt102 -120)
Cross Section
53-I -129
-99.78 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
53-I -129

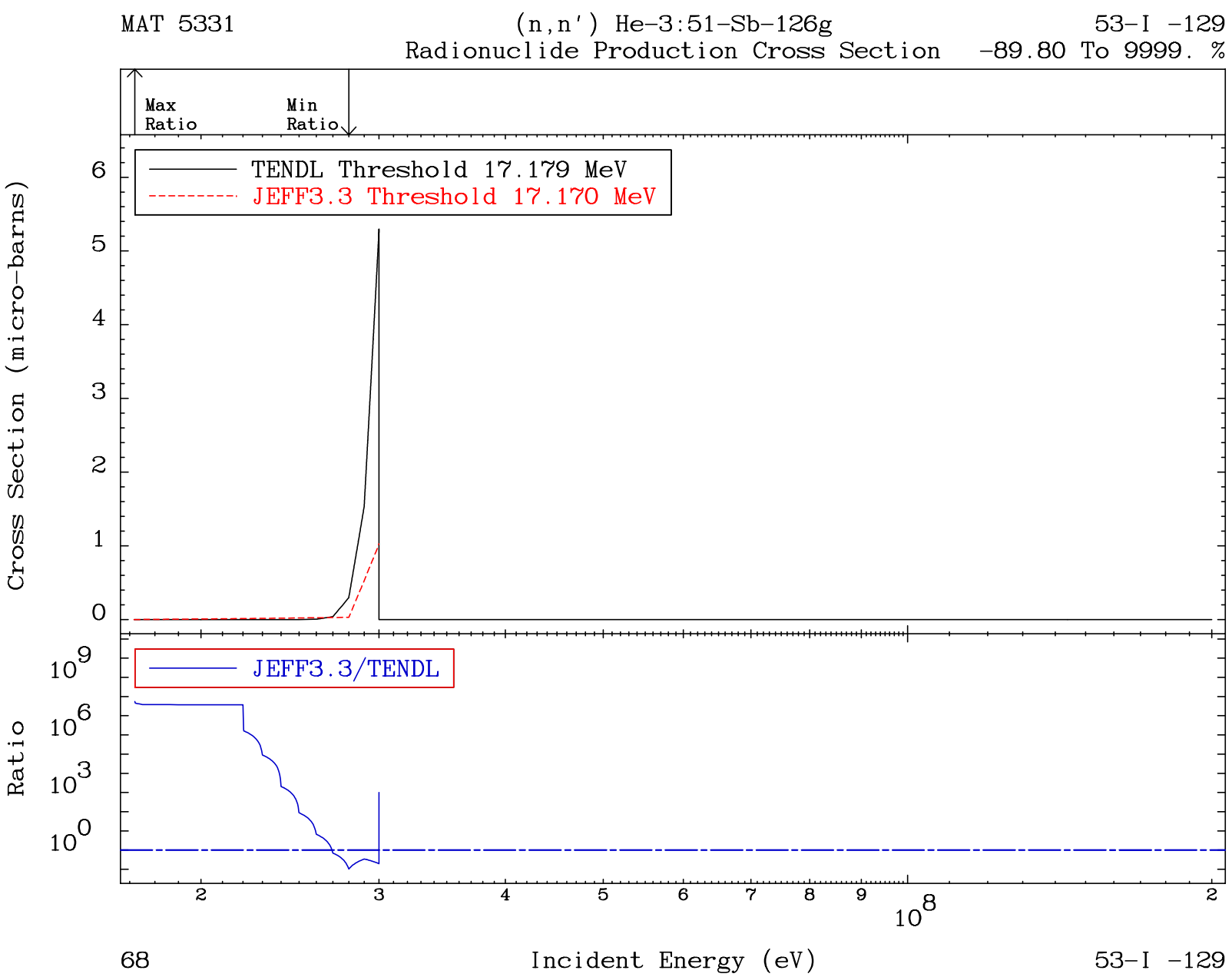

MAT 5331
(n,2n) α:51-Sb-124g
53-I -129
Radionuclide Production Cross Section -68.00 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.472 MeV
JEFF3.3 Threshold 11.470 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
53-I -129

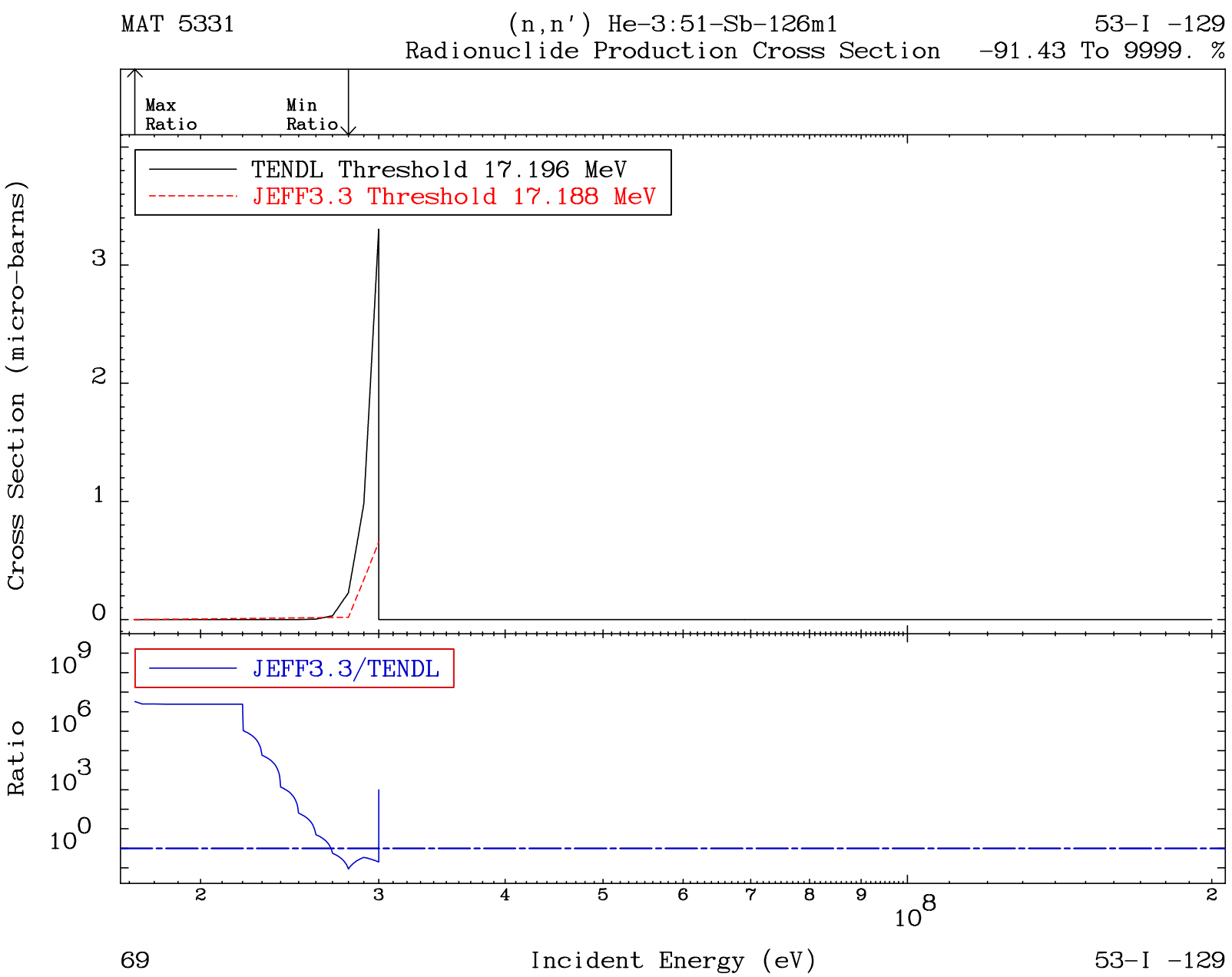

MAT 5331
(n,2n) α:51-Sb-124m1
53-I -129
Radionuclide Production Cross Section -40.34 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.483 MeV
JEFF3.3 Threshold 11.481 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
53-I -129

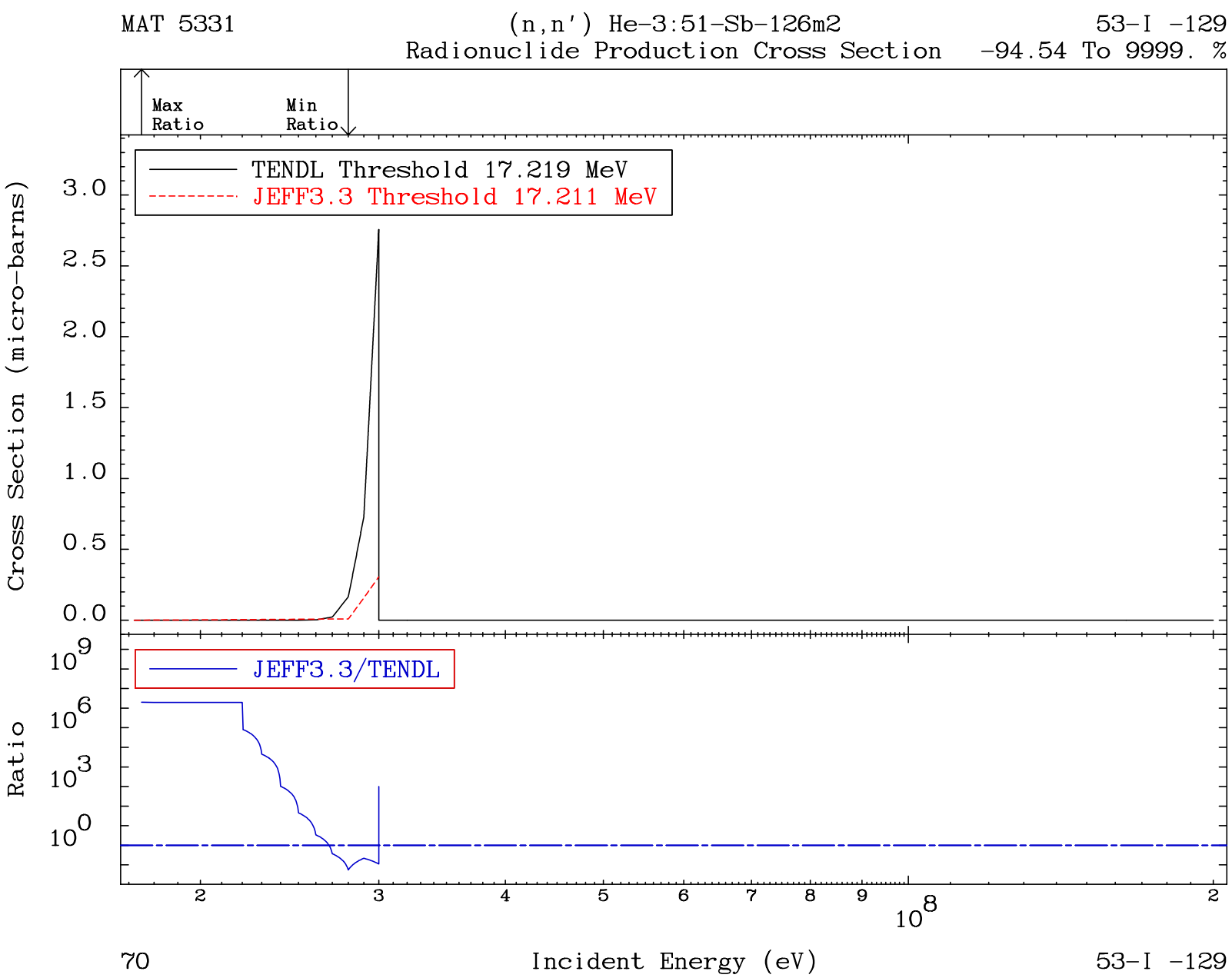

MAT 5331
(n,2n) α:51-Sb-124m2
53-I -129
Radionuclide Production Cross Section -64.07 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.509 MeV
JEFF3.3 Threshold 11.507 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
53-I -129

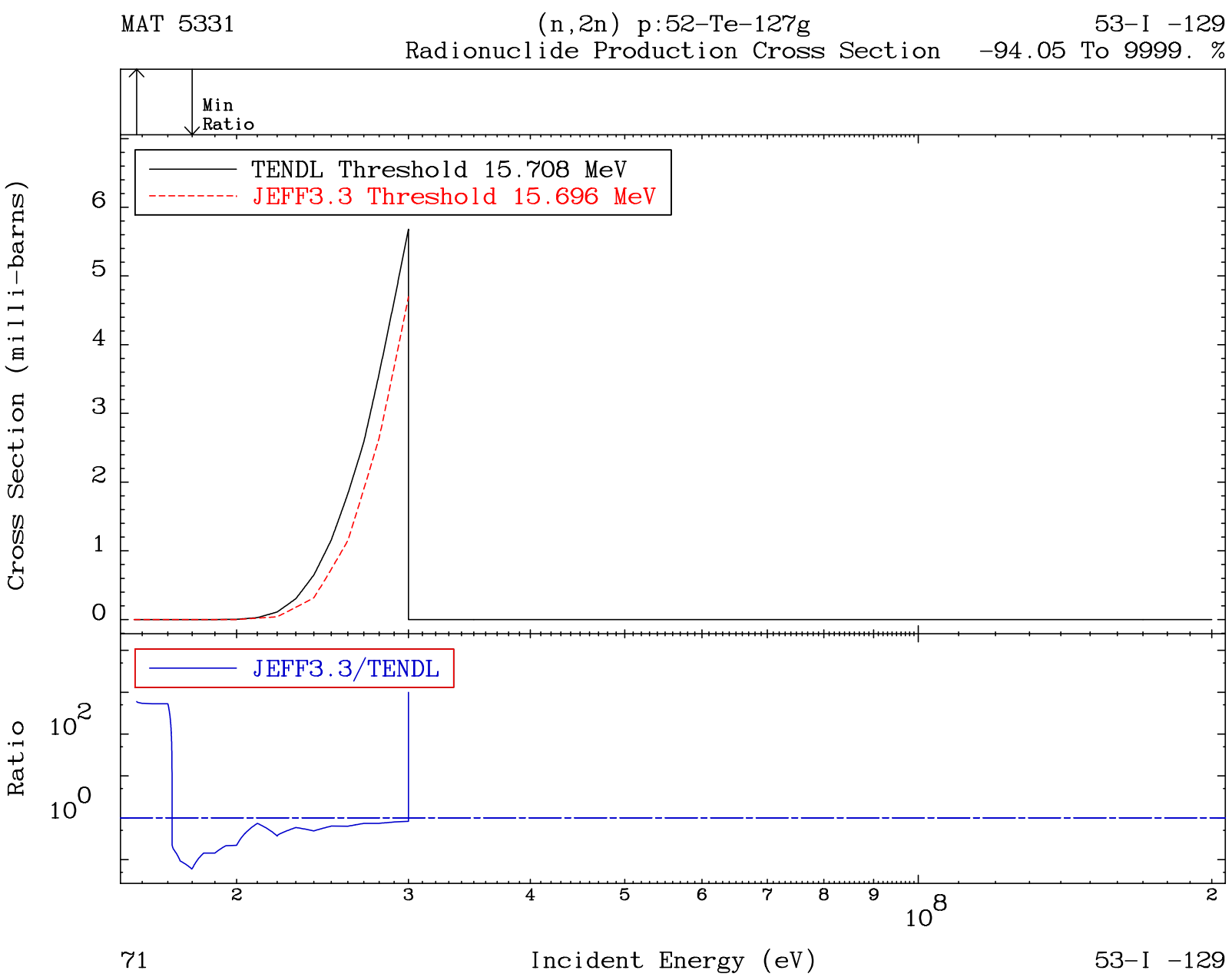

MAT 5331
(n,n') d:52-Te-127g
53-I -129
Radionuclide Production Cross Section 25.13 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.466 MeV
JEFF3.3 Threshold 13.454 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
53-I -129

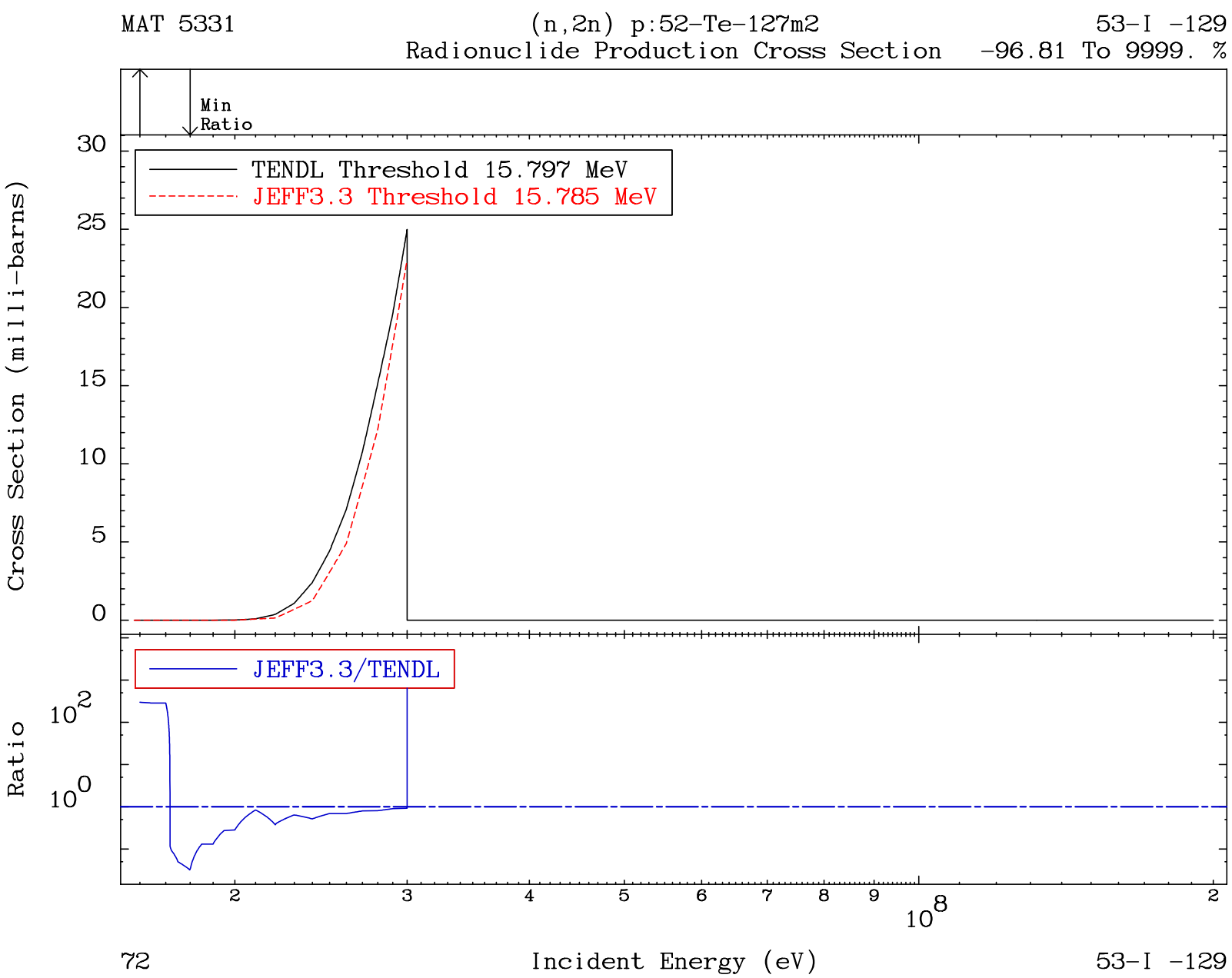

MAT 5331
(n,n') d:52-Te-127m2
53-I -129
Radionuclide Production Cross Section 43.71 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.555 MeV
JEFF3.3 Threshold 13.543 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
53-I -129

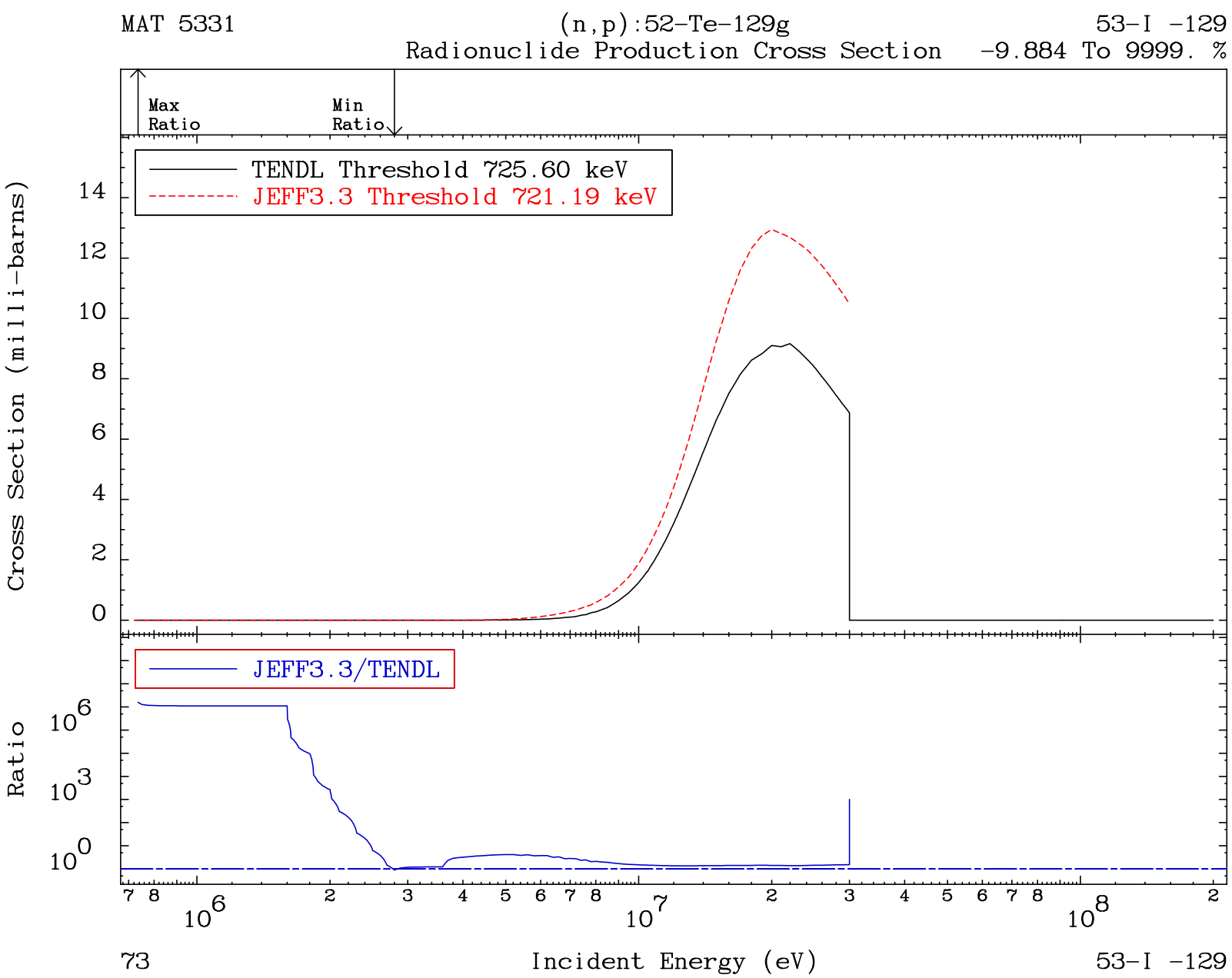

MAT 5331
(n,n') He-3:51-Sb-126g
53-I -129
Radionuclide Production Cross Section
-89.80 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.179 MeV
JEFF3.3 Threshold 17.170 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
53-I -129

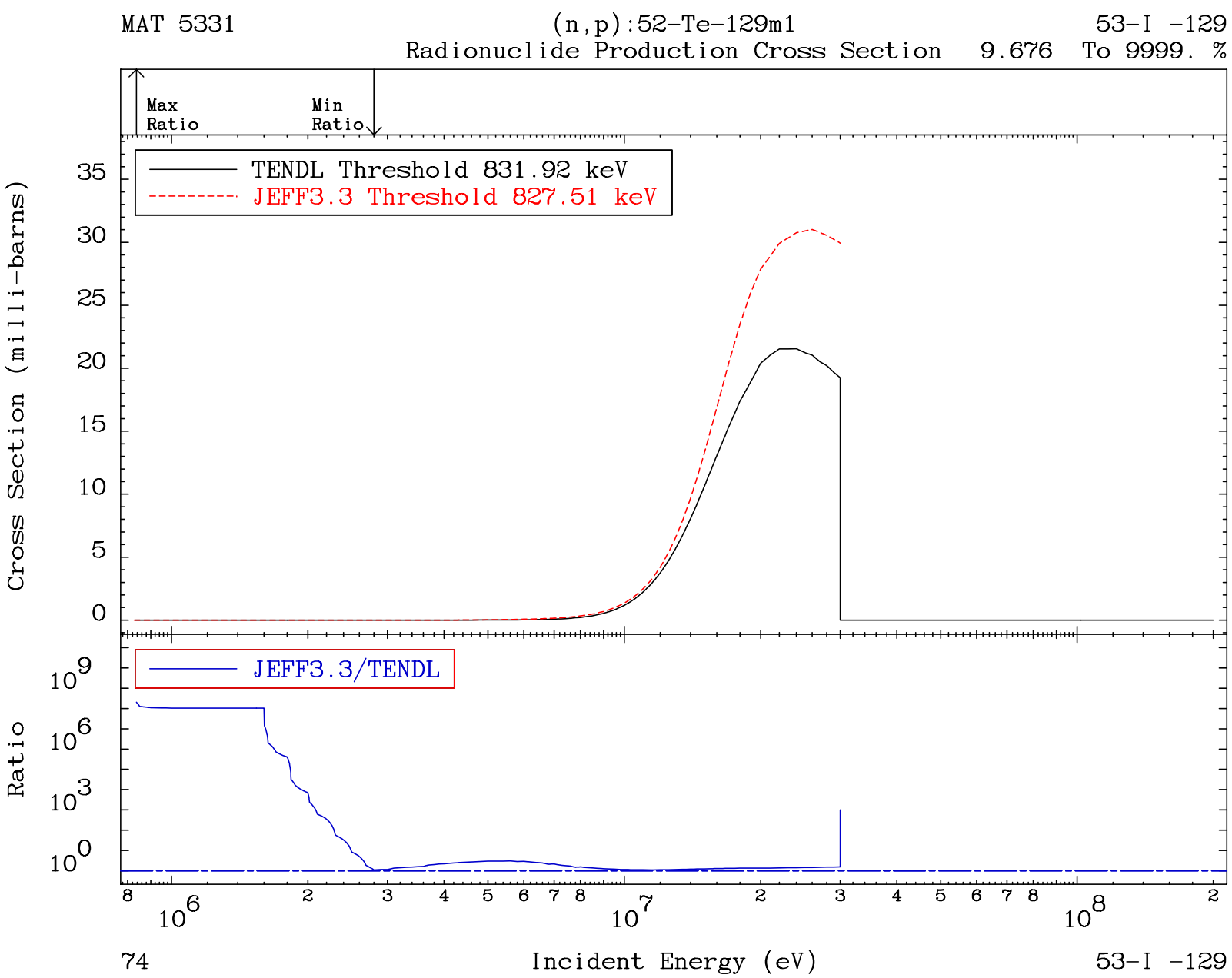

MAT 5331
(n,n') He-3:51-Sb-126m1
53-I -129
Radionuclide Production Cross Section
-91.43 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.196 MeV
JEFF3.3 Threshold 17.188 MeV
Cross Section (micro-barns)
0
1
2
3
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
53-I -129

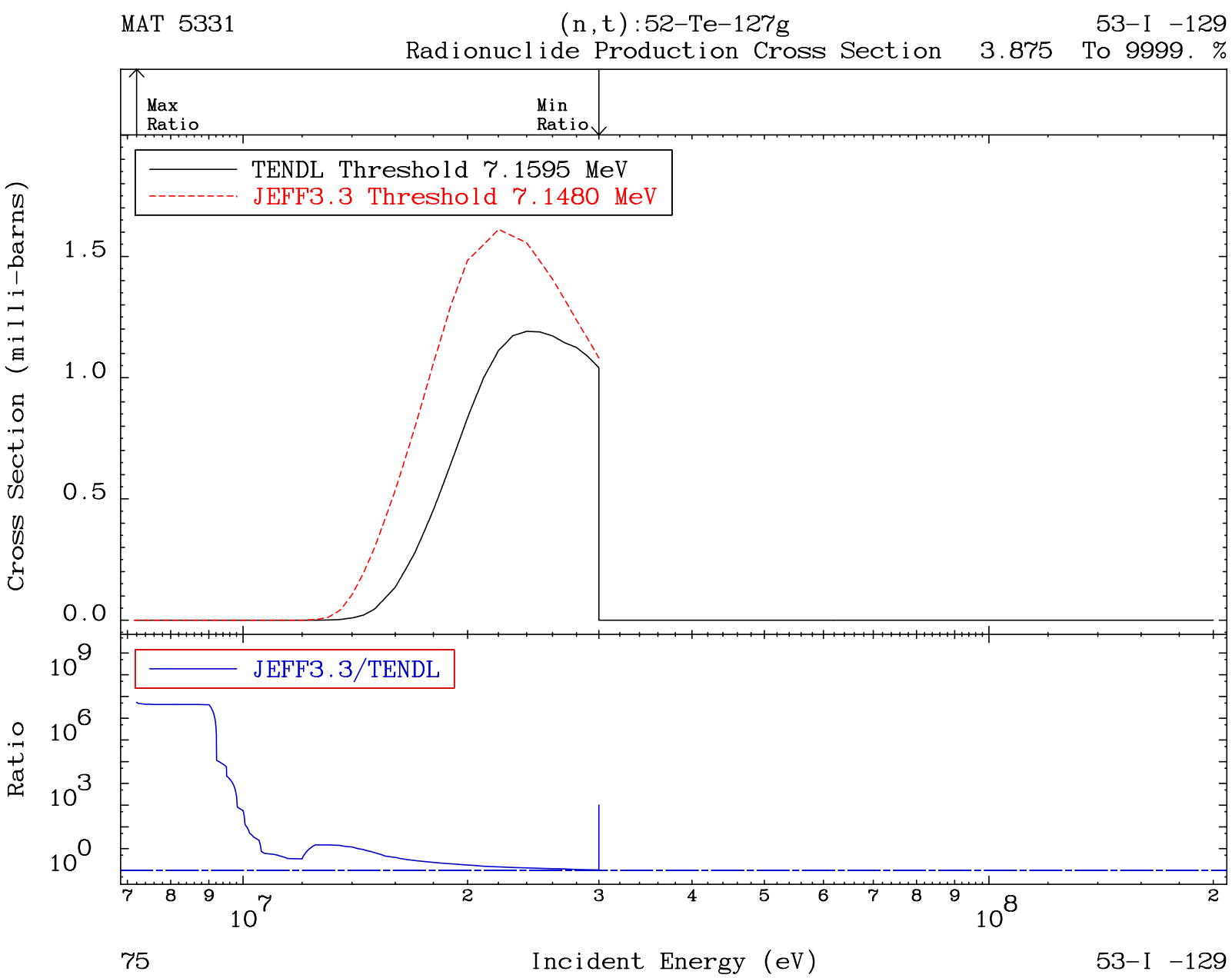

MAT 5331
(n,n') He-3:51-Sb-126m2
53-I -129
Radionuclide Production Cross Section
-94.54 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.219 MeV
JEFF3.3 Threshold 17.211 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
70
Incident Energy (eV)
53-I -129

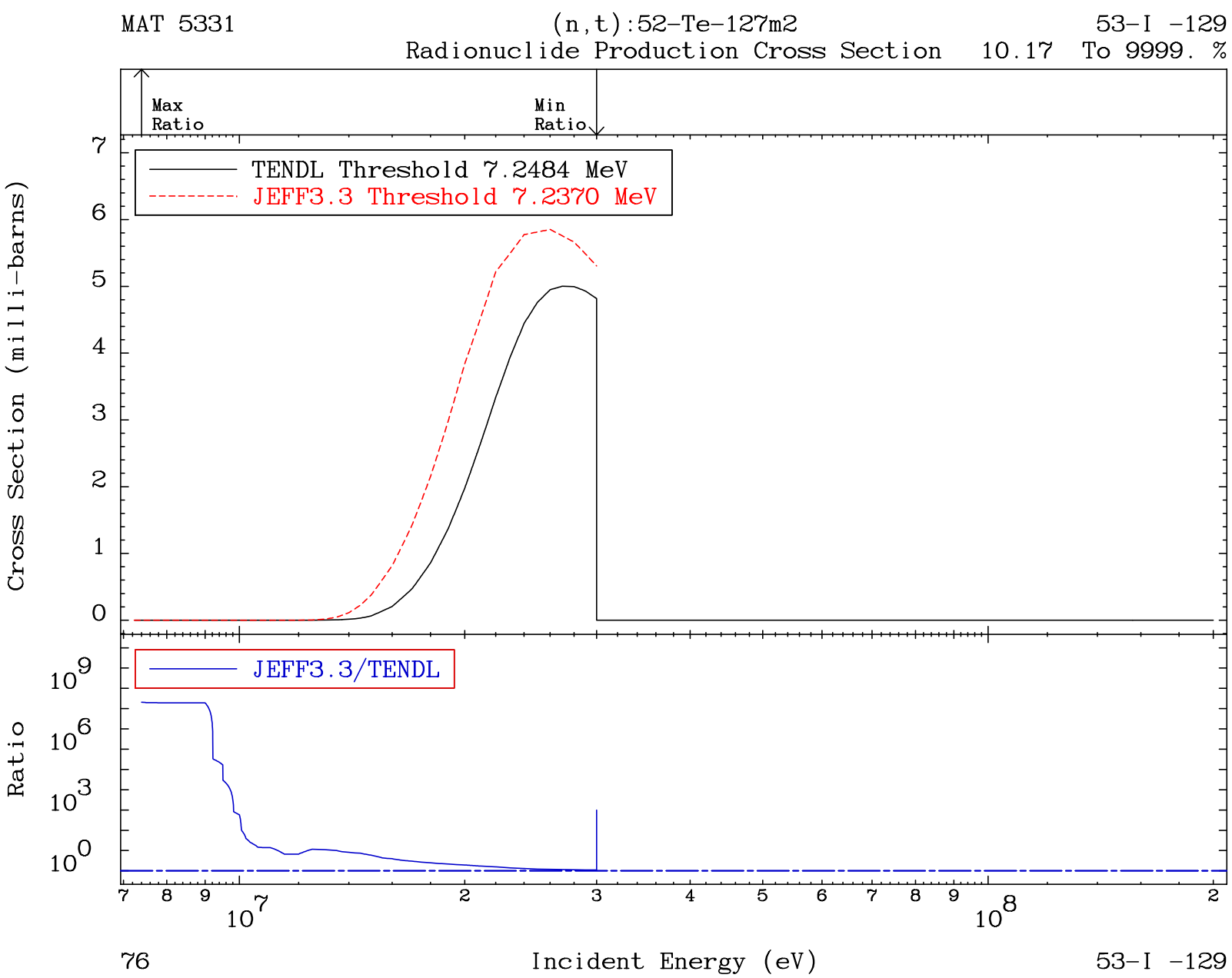

MAT 5331
(n,2n) p:52-Te-127g
53-I -129
Radionuclide Production Cross Section
-94.05 To 9999. %
Min
Ratio
TENDL Threshold 15.708 MeV
JEFF3.3 Threshold 15.696 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
71
Incident Energy (eV)
53-I -129

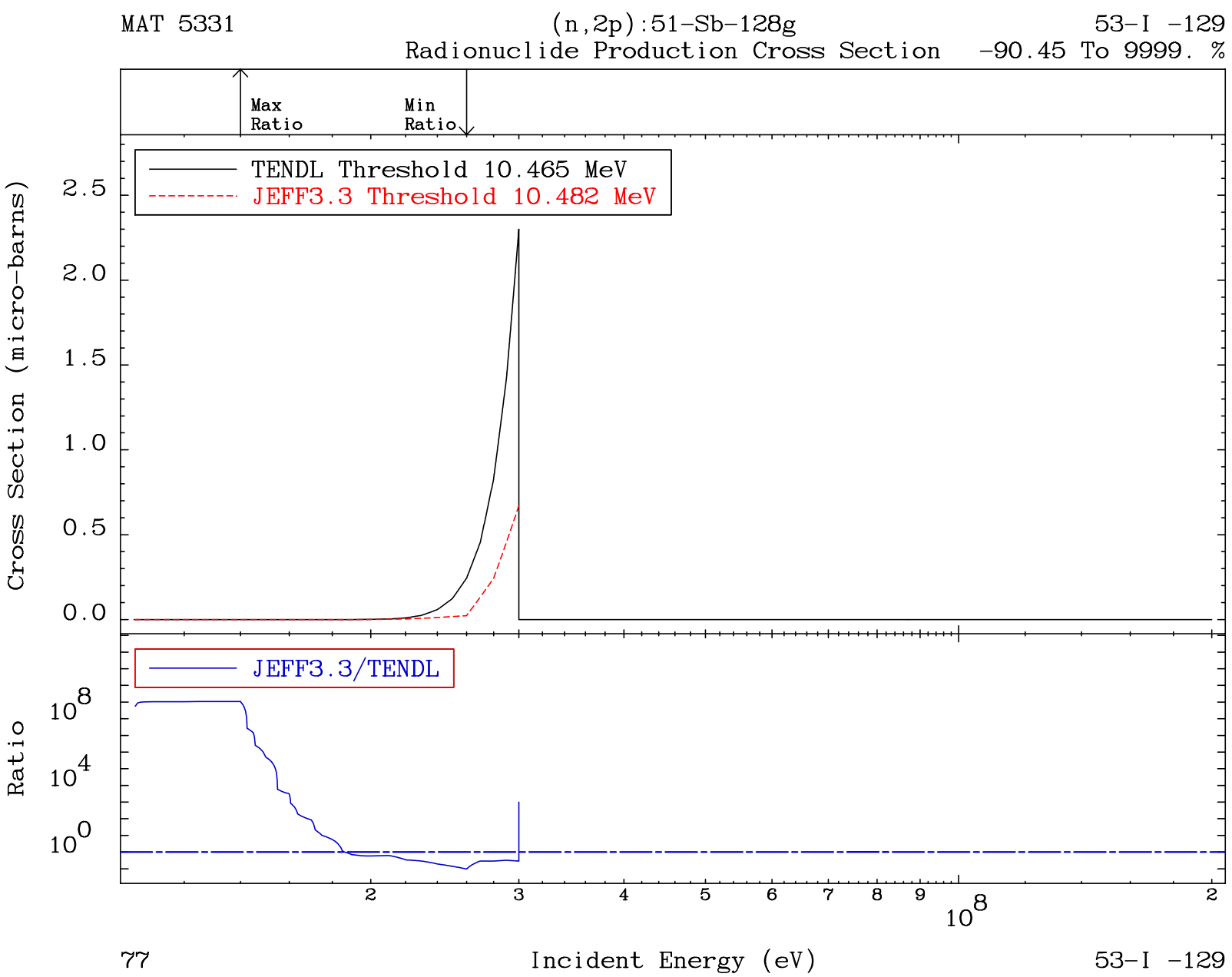

MAT 5331
(n,2n) p:52-Te-127m2
53-I -129
Radionuclide Production Cross Section
-96.81 To 9999. %
Min
Ratio
TENDL Threshold 15.797 MeV
JEFF3.3 Threshold 15.785 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
53-I -129

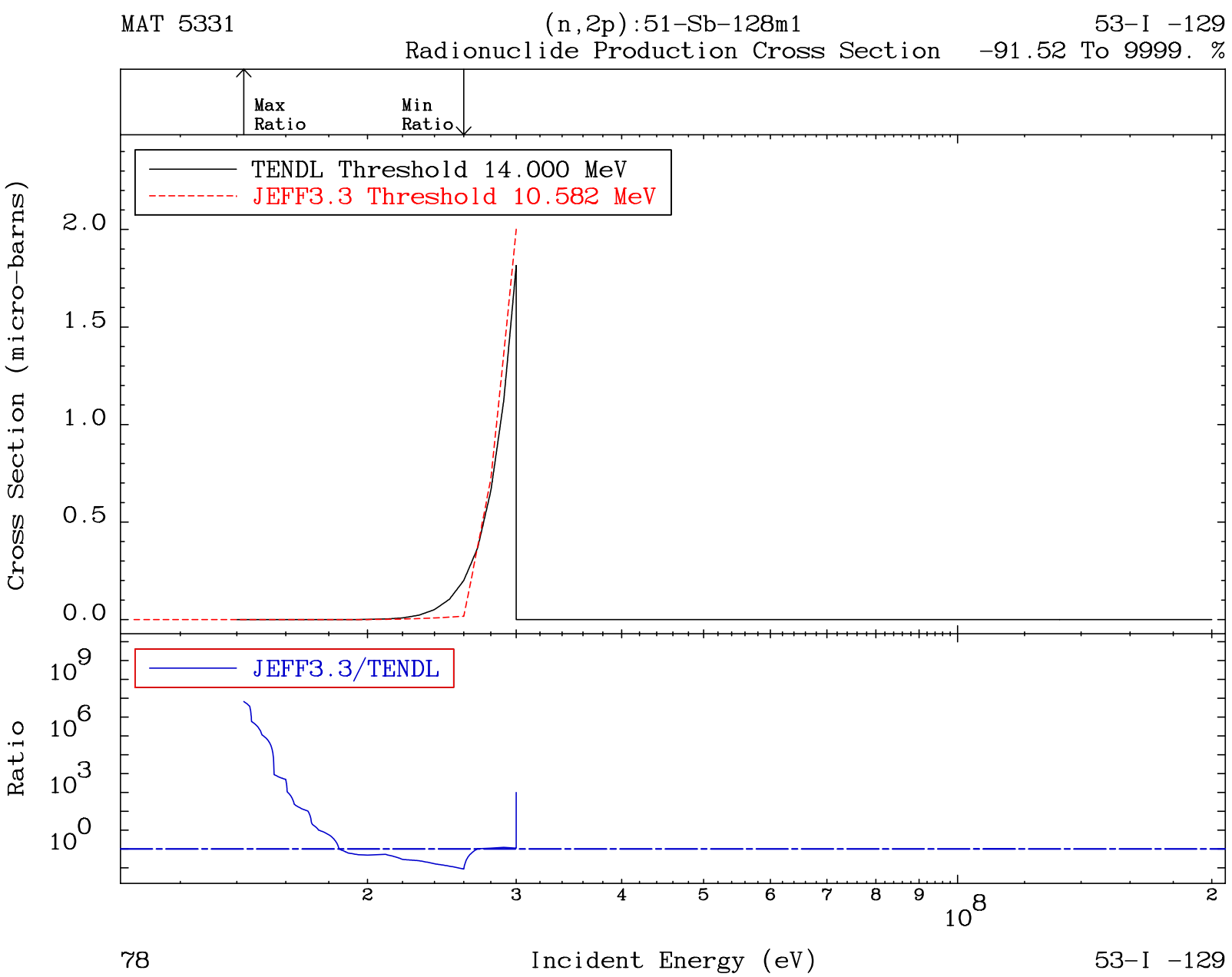

MAT 5331
(n,p):52-Te-129g
53-I -129
Radionuclide Production Cross Section
-9.884 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 725.60 keV
JEFF3.3 Threshold 721.19 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
JEFF3.3/TENDL
Ratio
10^6
10^3
10^0
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
73
Incident Energy (eV)
53-I -129

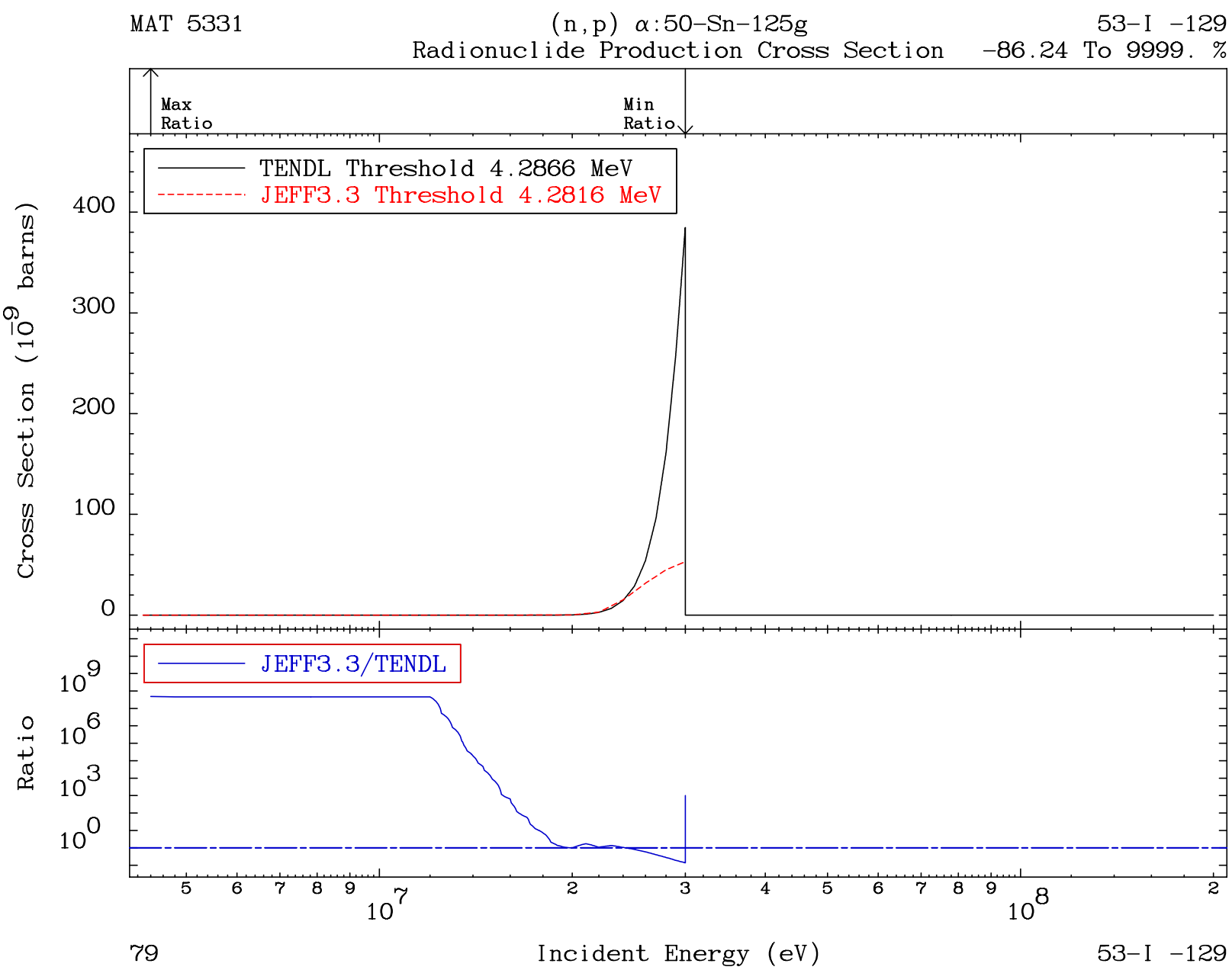

MAT 5331
(n,p):52-Te-129m1
53-I -129
Radionuclide Production Cross Section 9.676 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 831.92 keV
JEFF3.3 Threshold 827.51 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
74
Incident Energy (eV)
53-I -129

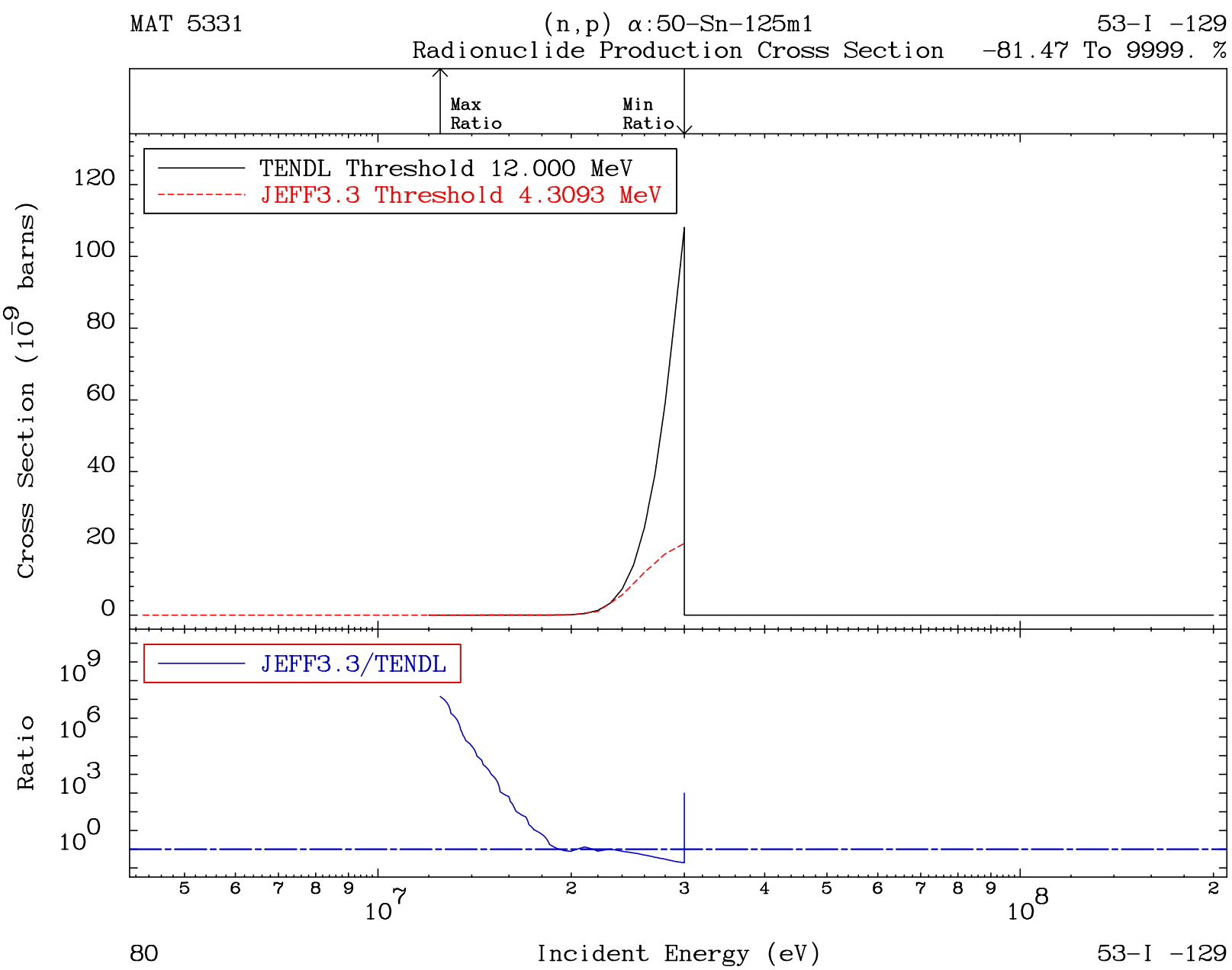

MAT 5331
(n,t):52-Te-127g
53-I -129
Radionuclide Production Cross Section 3.875 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.1595 MeV
JEFF3.3 Threshold 7.1480 MeV
Cross Section (milli-barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
75
Incident Energy (eV)
53-I -129

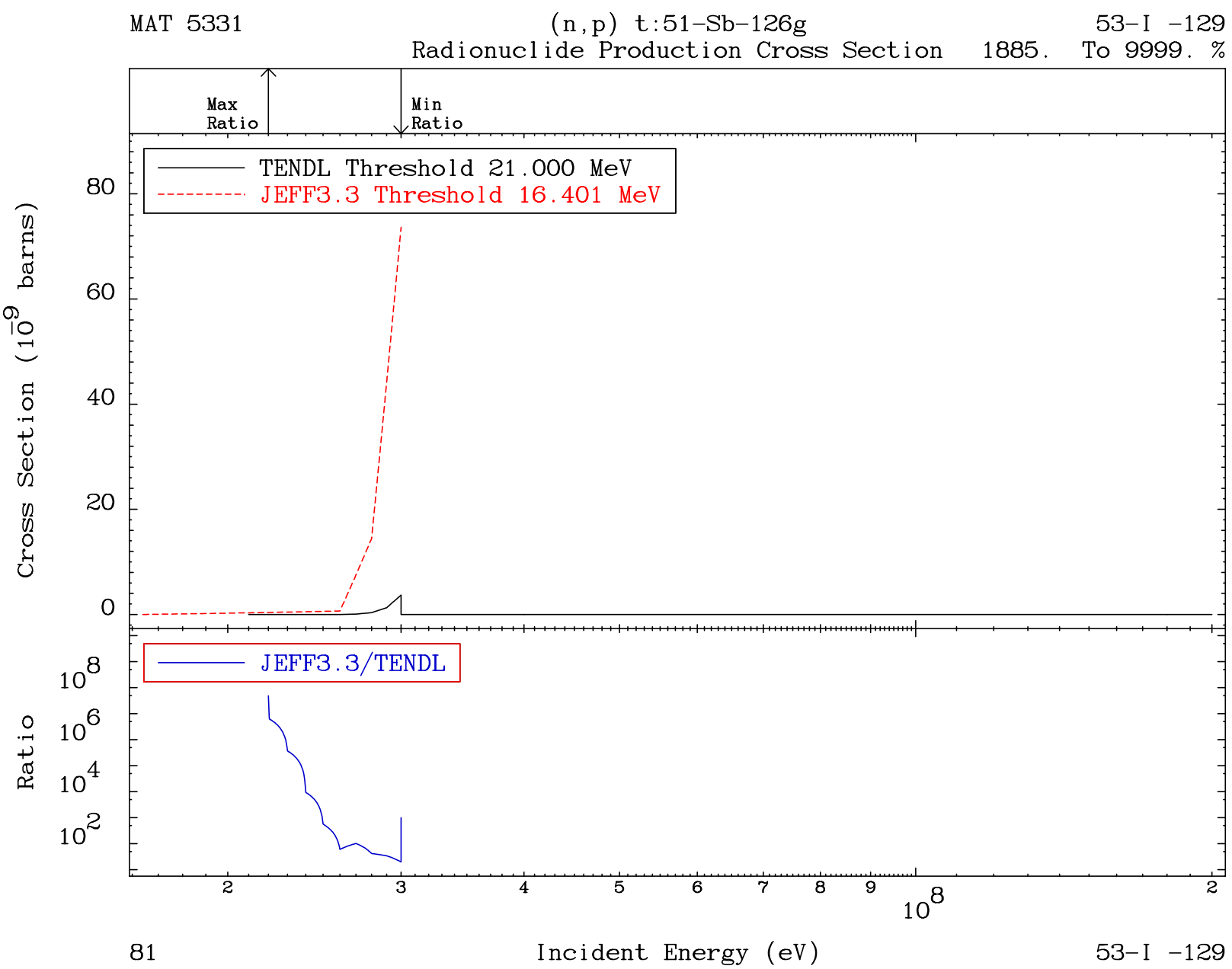

MAT 5331
(n,t):52-Te-127m2
53-I -129
Radionuclide Production Cross Section 10.17 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.2484 MeV
JEFF3.3 Threshold 7.2370 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
53-I -129

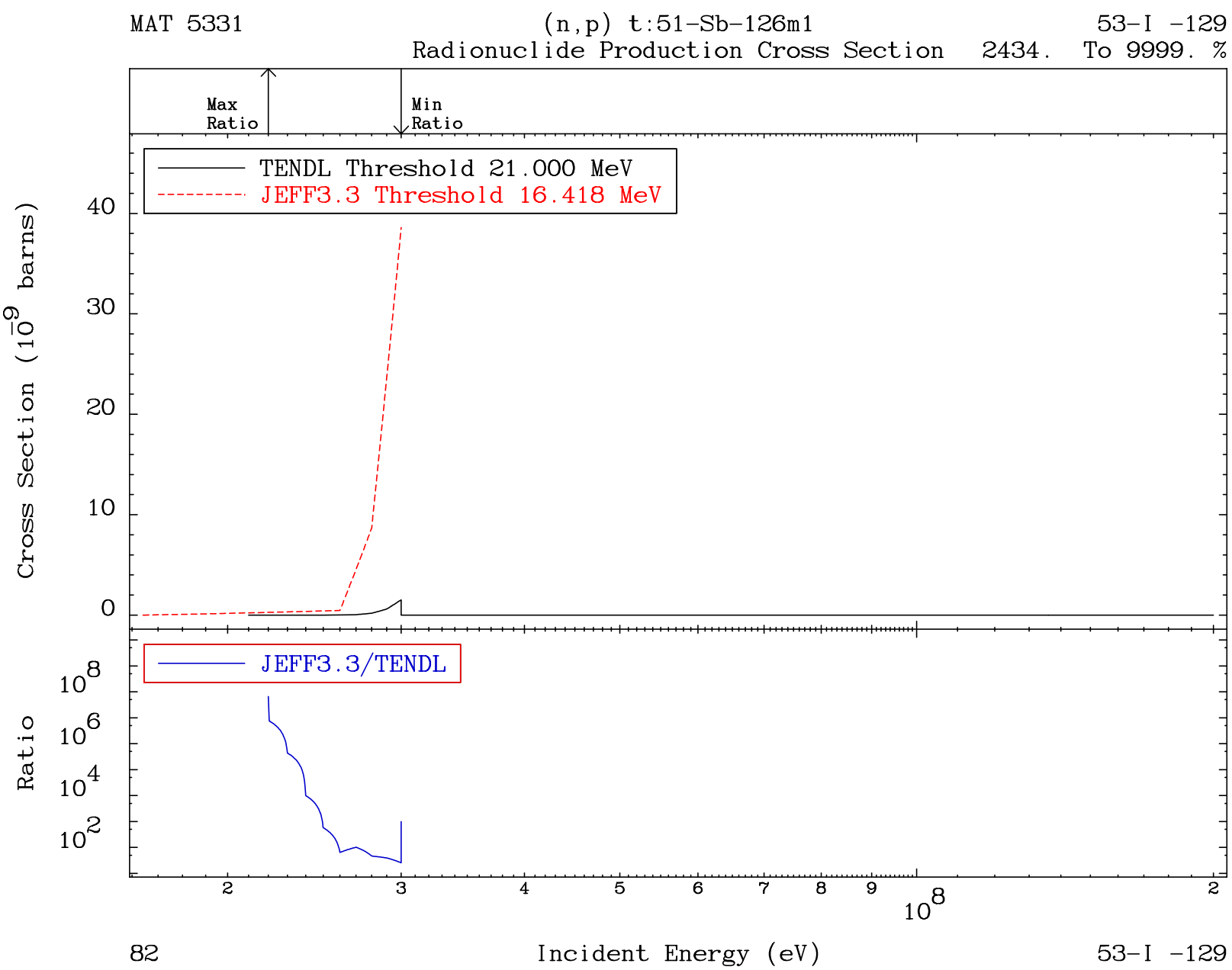

MAT 5331
(n,2p):51-Sb-128g
53-I -129
Radionuclide Production Cross Section -90.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.465 MeV
JEFF3.3 Threshold 10.482 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^8
10^4
10^0
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
53-I -129

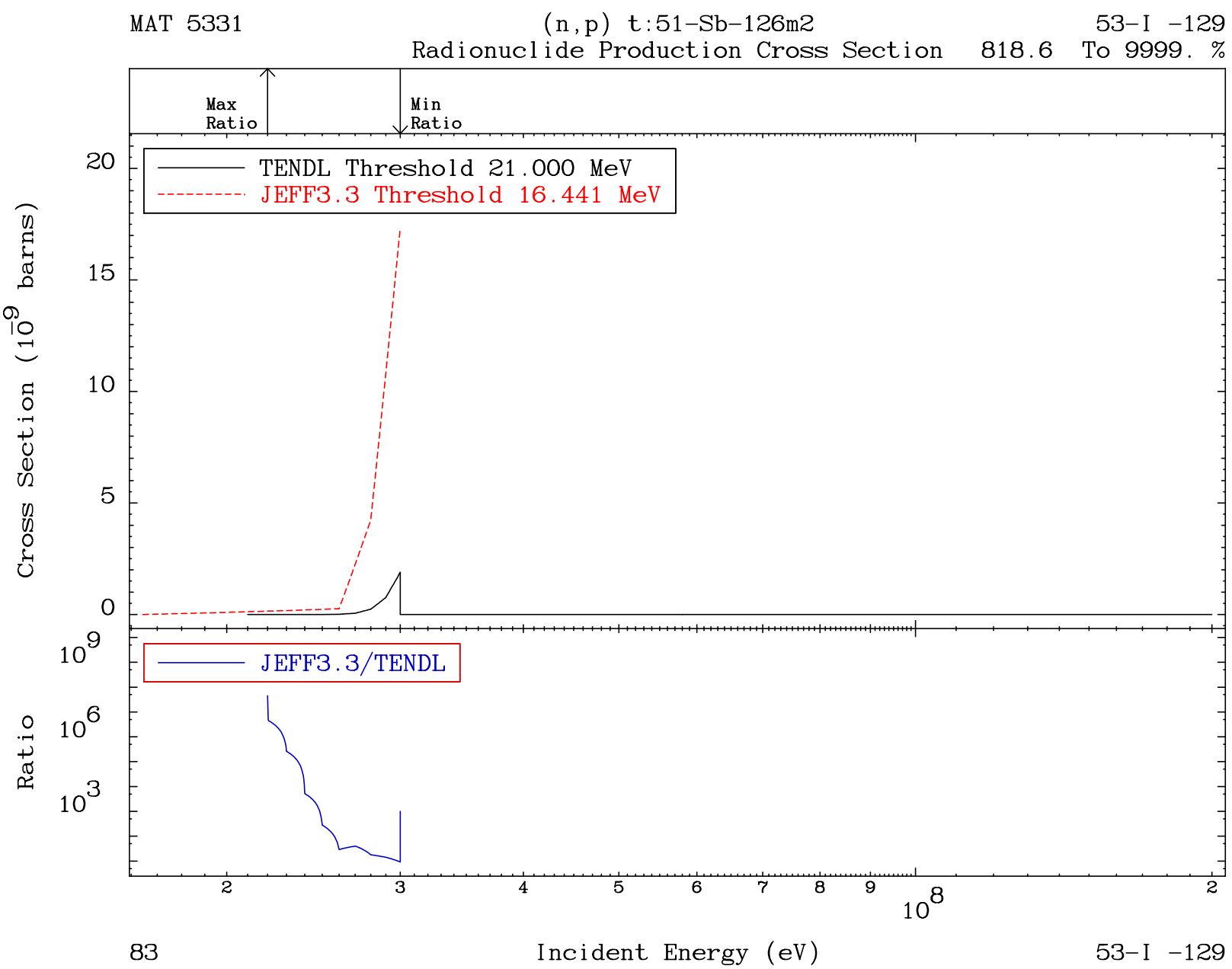

MAT 5331
(n,2p):51-Sb-128m1
53-I -129
Radionuclide Production Cross Section
-91.52 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 14.000 MeV
JEFF3.3 Threshold 10.582 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) α:50-Sn-125g
53-I -129
Radionuclide Production Cross Section -86.24 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.2866 MeV
JEFF3.3 Threshold 4.2816 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^{9}
10^{6}
10^{3}
10^{0}
5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
79
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) α:50-Sn-125m1
53-I -129
Radionuclide Production Cross Section -81.47 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.000 MeV
JEFF3.3 Threshold 4.3093 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^{9}
10^{6}
10^{3}
10^{0}
5 6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
80
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) t:51-Sb-126g
53-I -129
Radionuclide Production Cross Section 1885. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 21.000 MeV
JEFF3.3 Threshold 16.401 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^{8}
10^{6}
10^{4}
10^{2}
2
3
4
5
6
7
8
9
10^{8}
2
81
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) t:51-Sb-126m1
53-I -129
Radionuclide Production Cross Section 2434. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 21.000 MeV
JEFF3.3 Threshold 16.418 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^8
10^6
10^4
10^2
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) t:51-Sb-126m2
53-I -129
Radionuclide Production Cross Section 818.6 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 21.000 MeV
JEFF3.3 Threshold 16.441 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{9}
10^{6}
10^{3}
2
3
4
5
6
7
8
9
10^{8}
2
83
Incident Energy (eV)
53-I -129