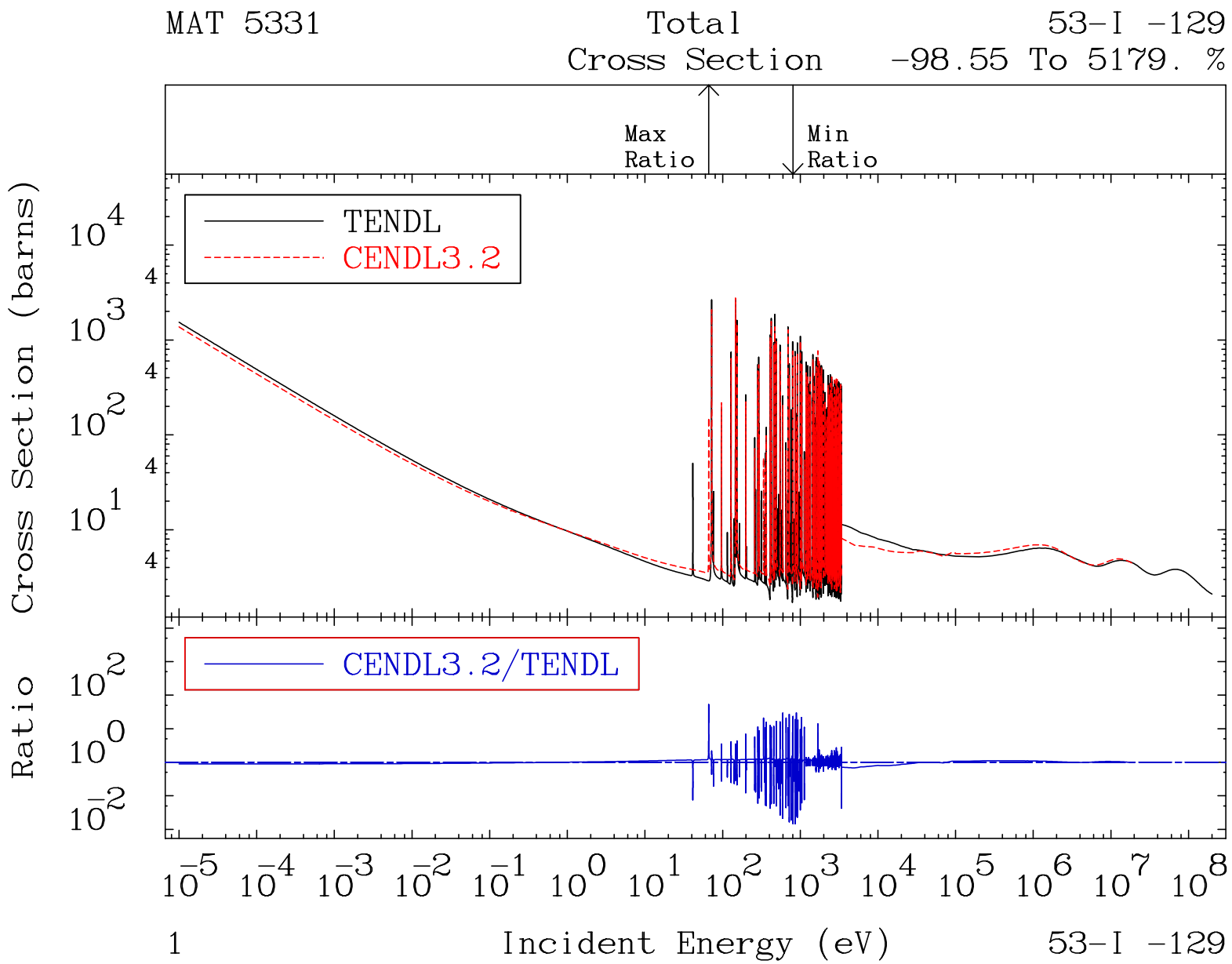
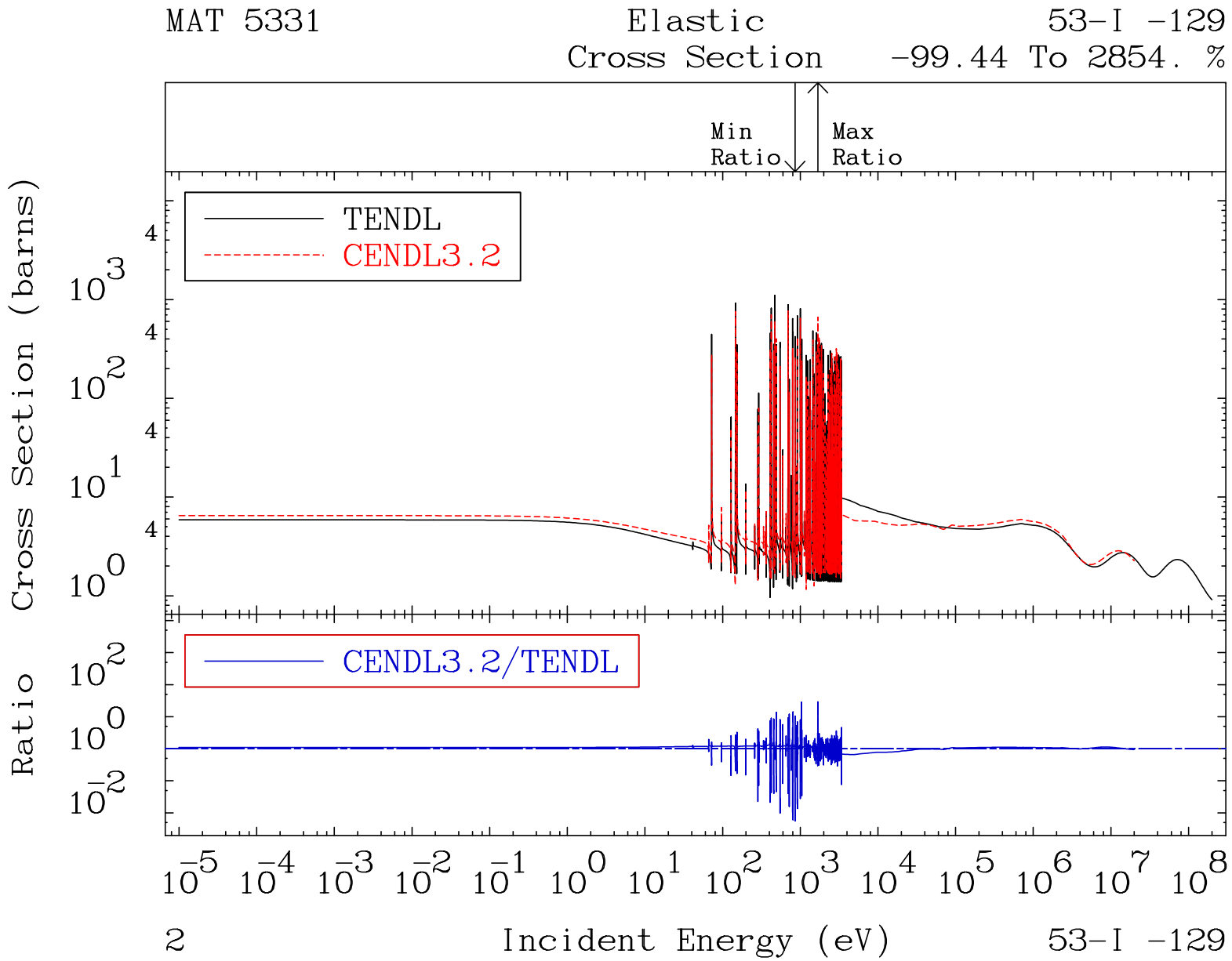
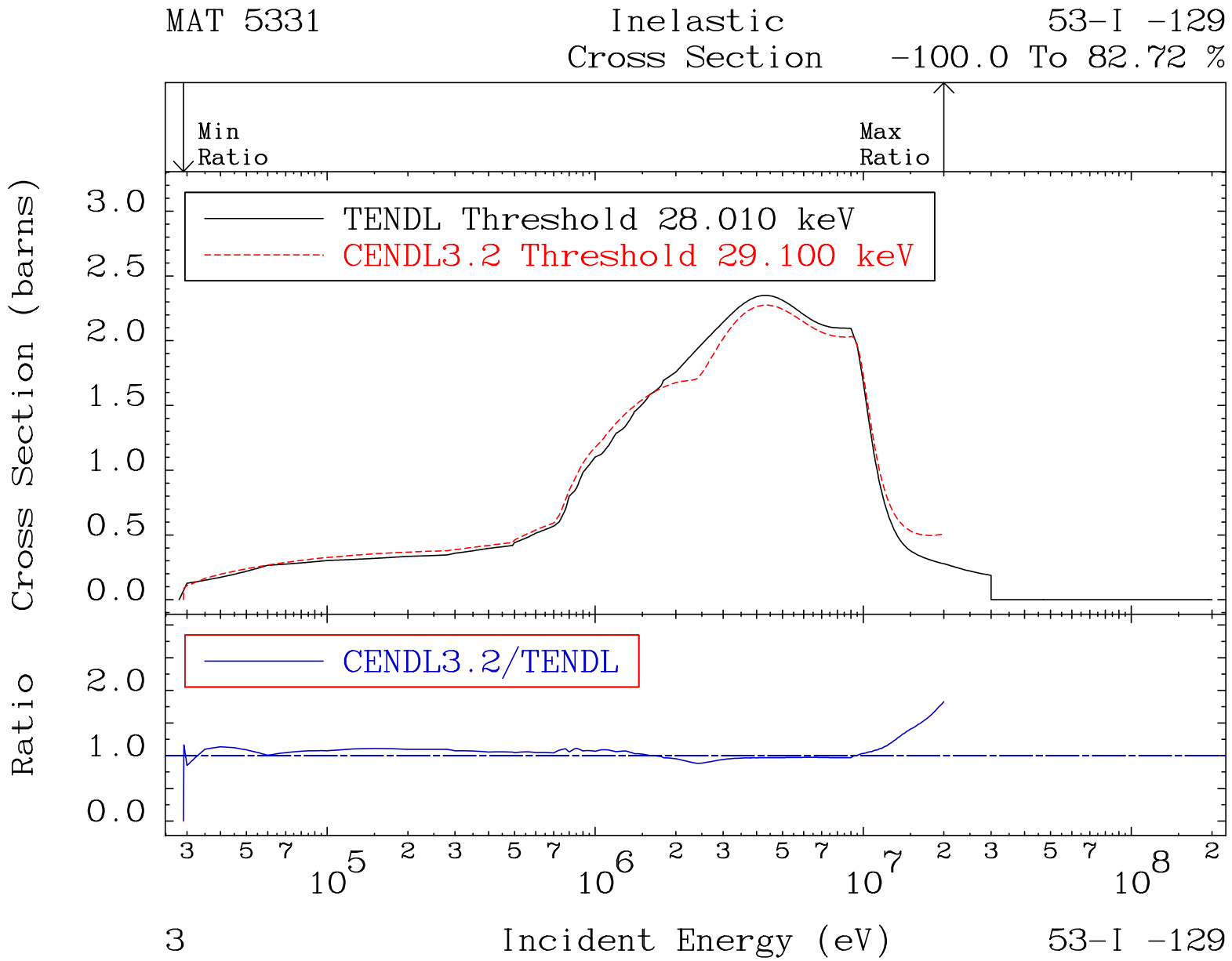
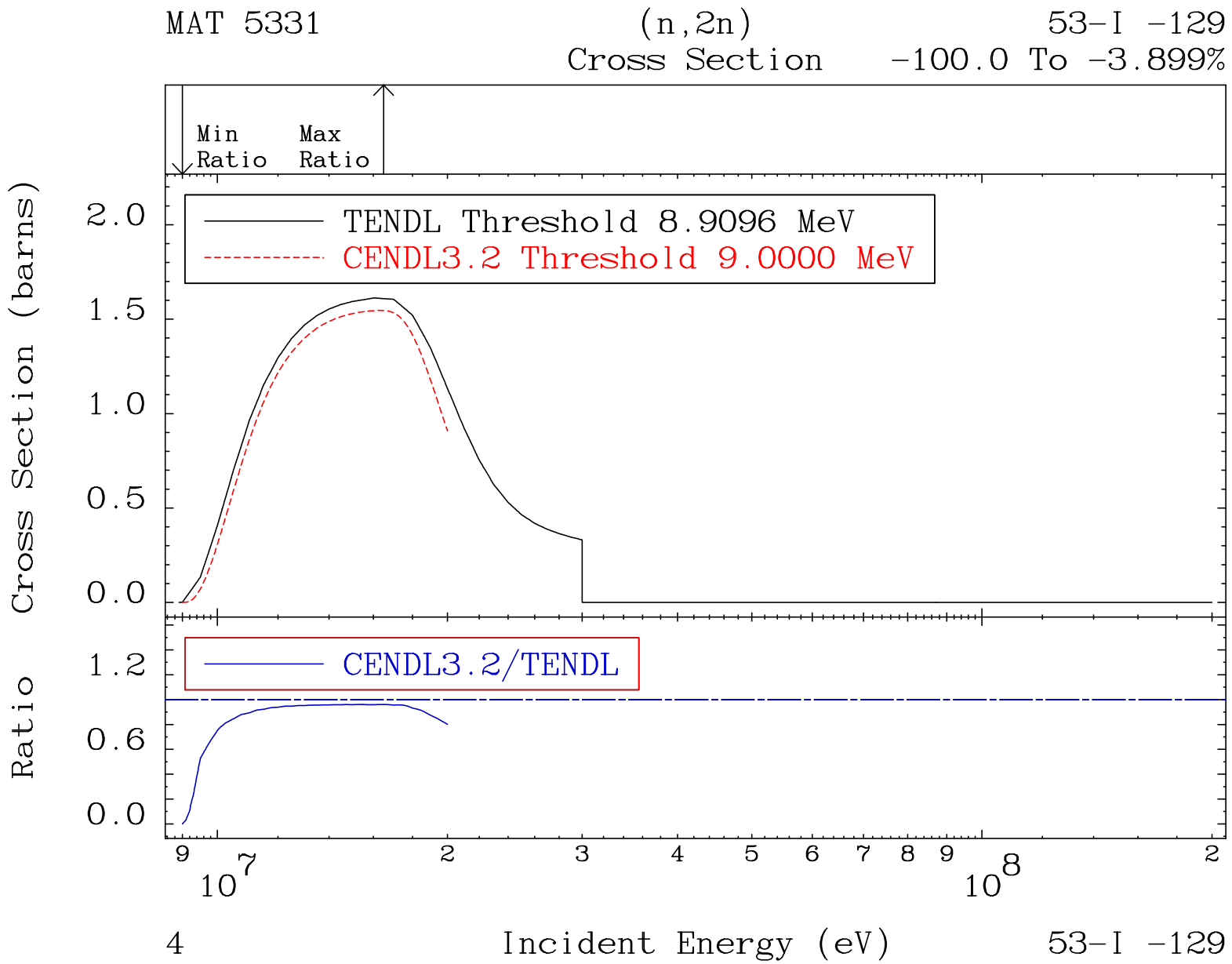
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

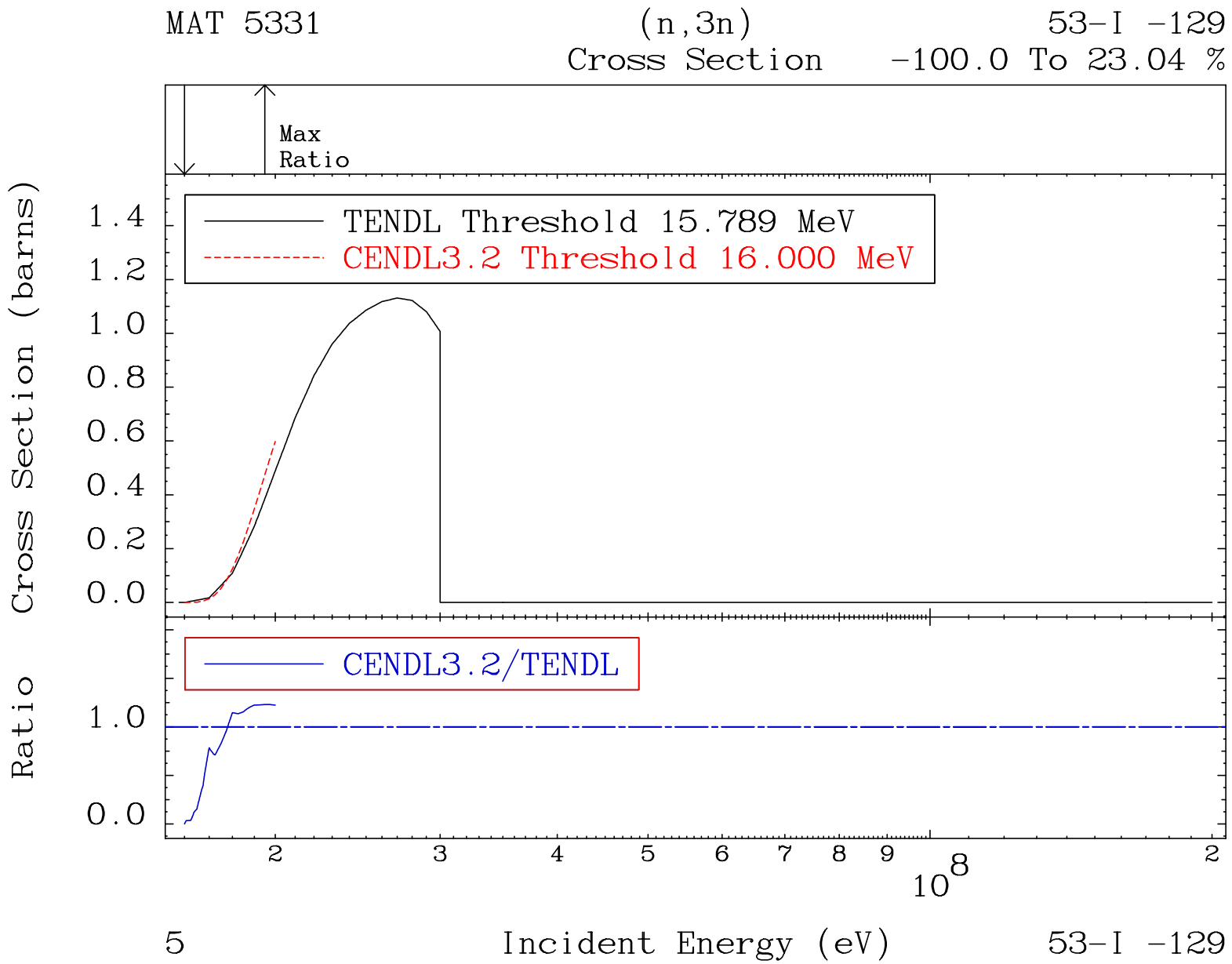
Press Mouse Button to Start

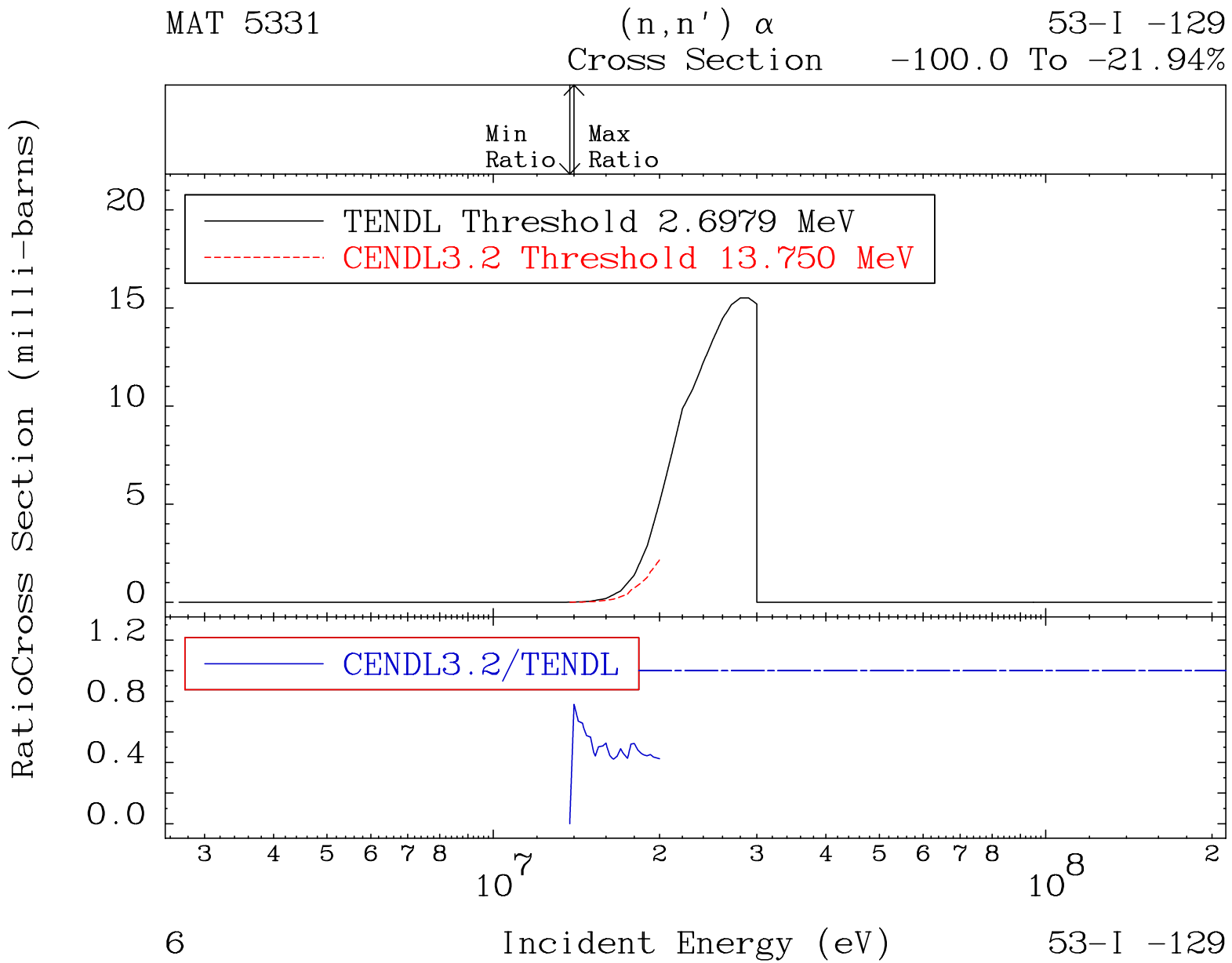

MAT 5331
Total
Cross Section
53-I -129
-98.55 To 5179. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
1
53-I -129

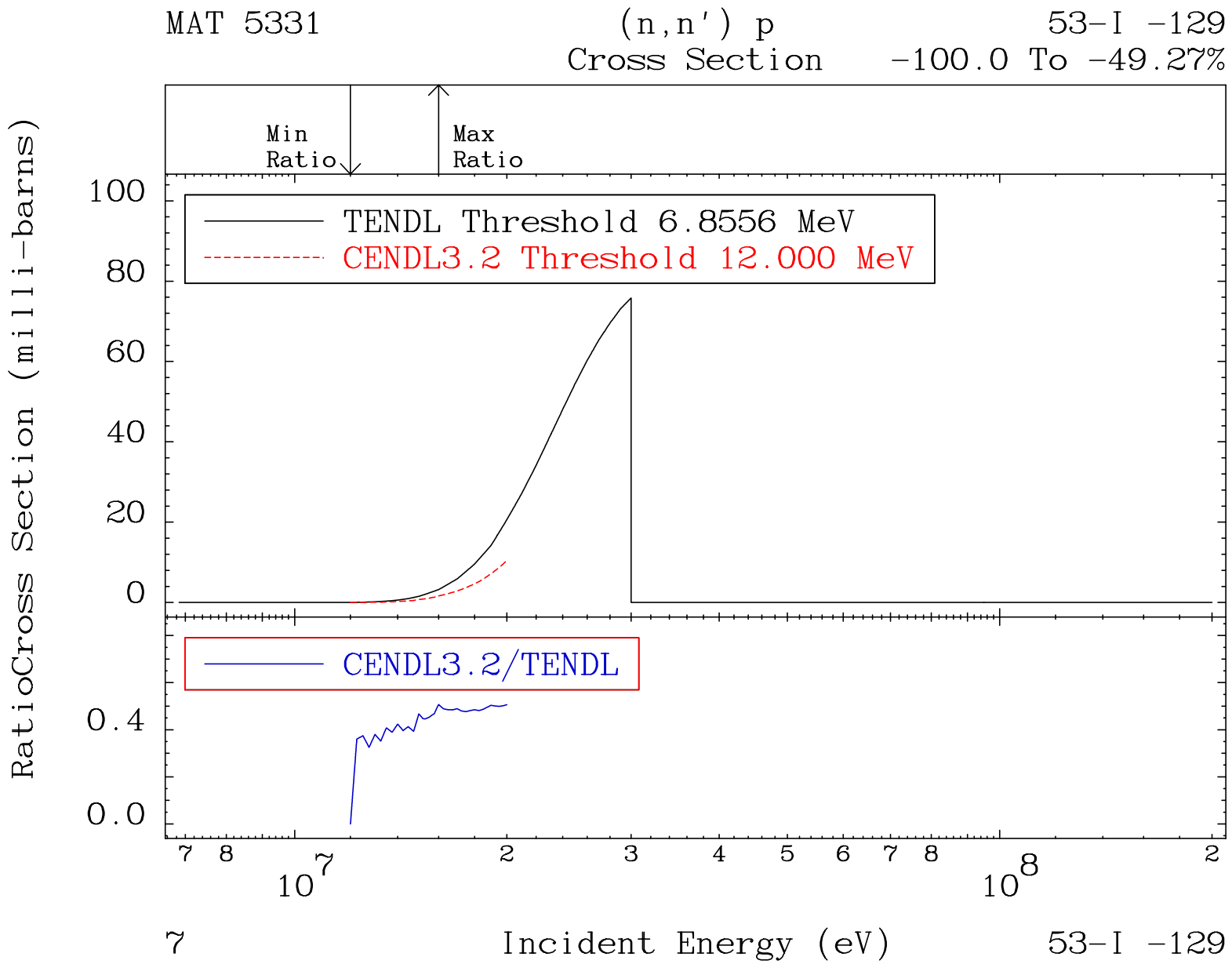

MAT 5331
Elastic
Cross Section
53-I -129
-99.44 To 2854. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
2
53-I -129

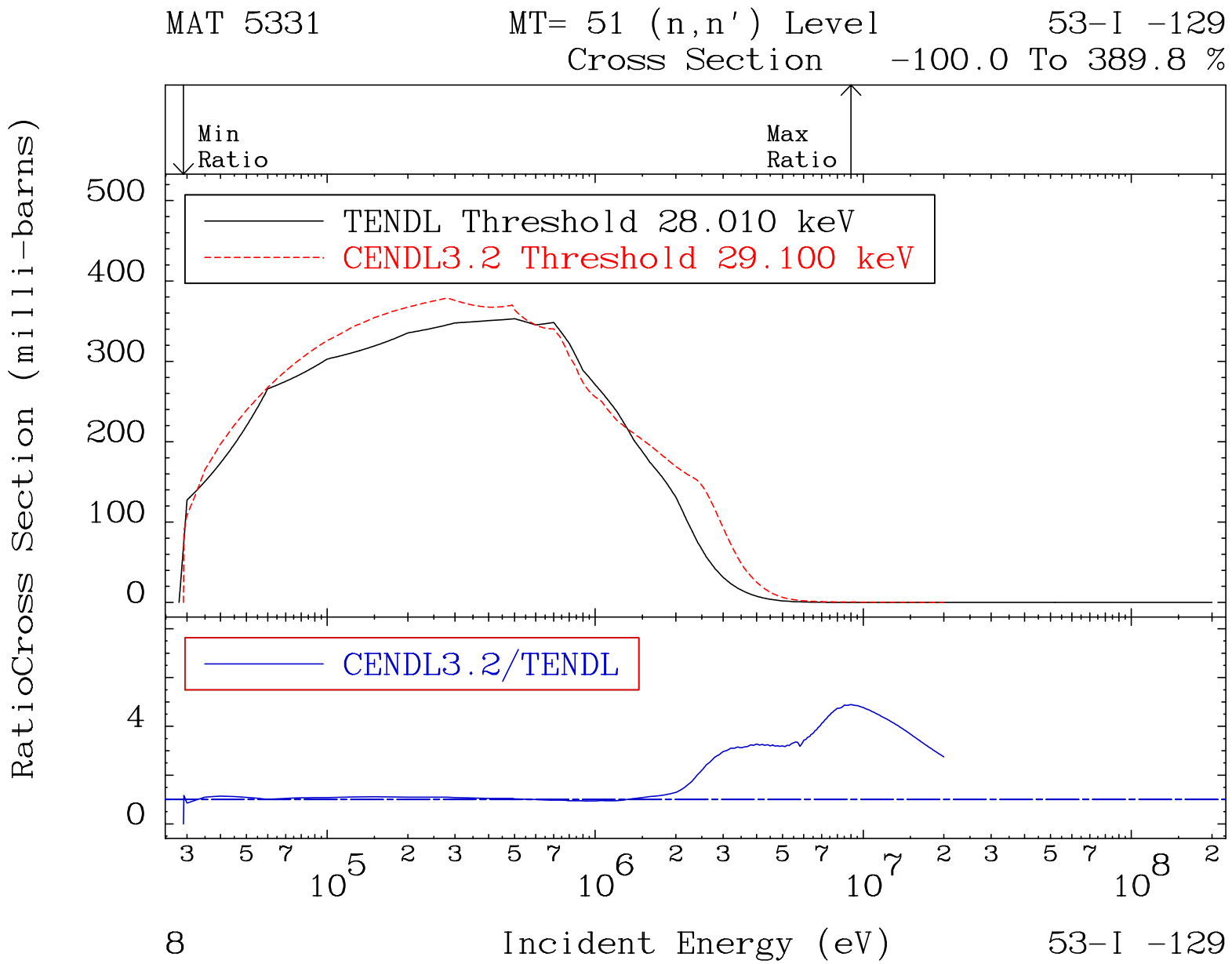

MAT 5331
Inelastic
Cross Section
53-I -129
-100.0 To 82.72 %
Min
Ratio
Max
Ratio
TENDL Threshold 28.010 keV
CENDL3.2 Threshold 29.100 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53-I -129

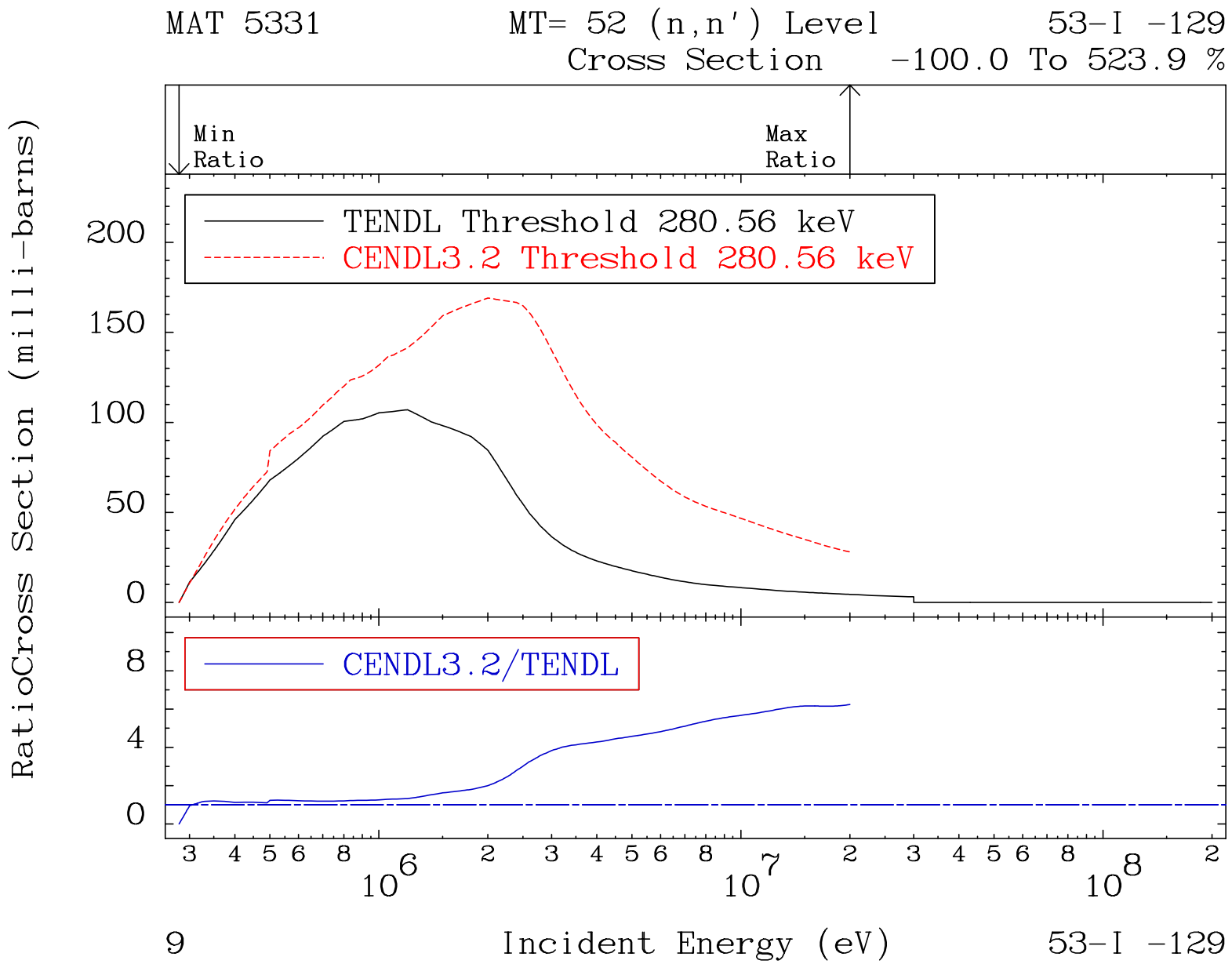

MAT 5331
(n,2n)
Cross Section
53-I -129
-100.0 To -3.899%
Min Ratio
Max Ratio
TENDL Threshold 8.9096 MeV
CENDL3.2 Threshold 9.0000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
4
53-I -129

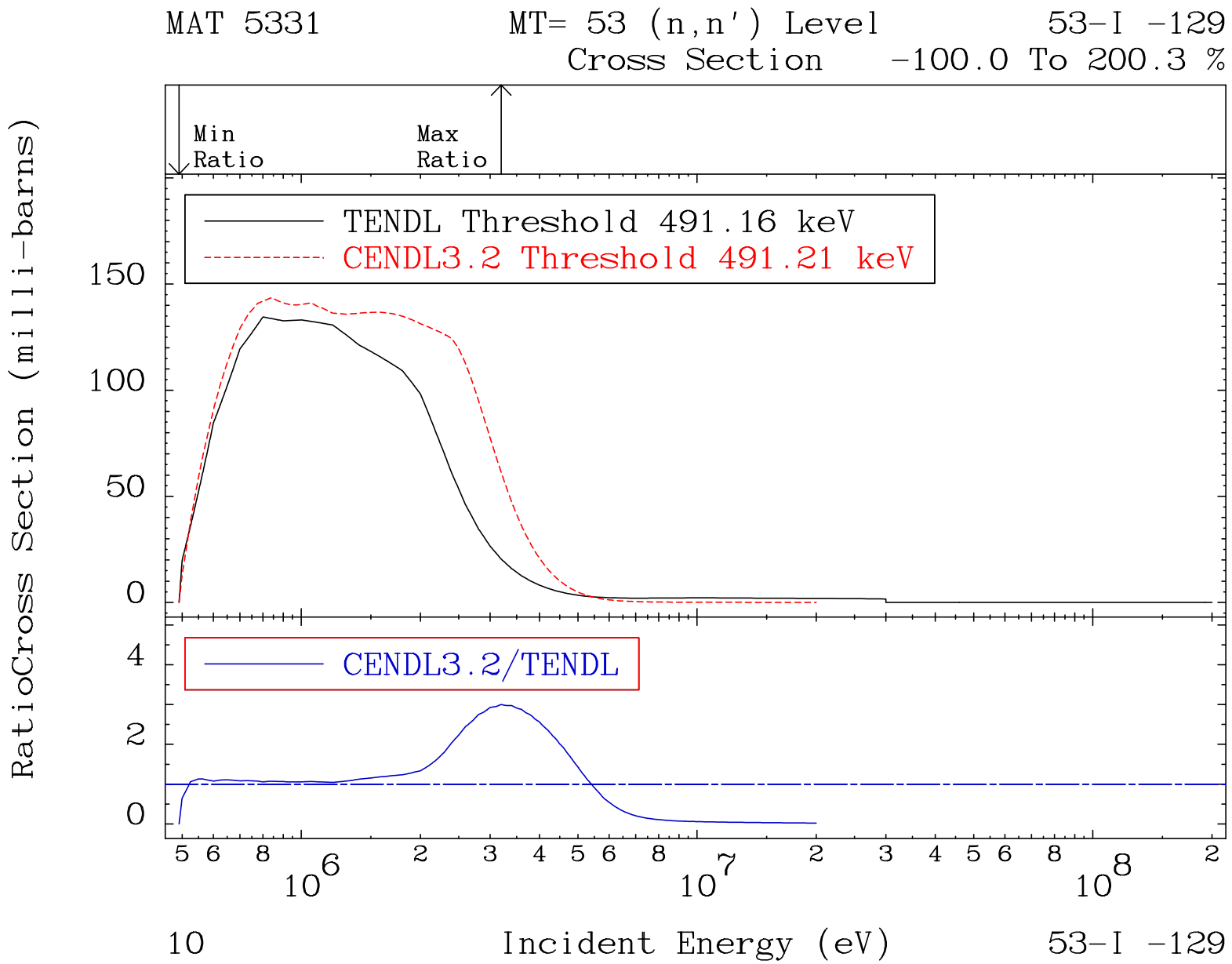

MAT 5331
(n,3n)
Cross Section
53-I -129
-100.0 To 23.04 %
Max
Ratio
TENDL Threshold 15.789 MeV
CENDL3.2 Threshold 16.000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
53-I -129

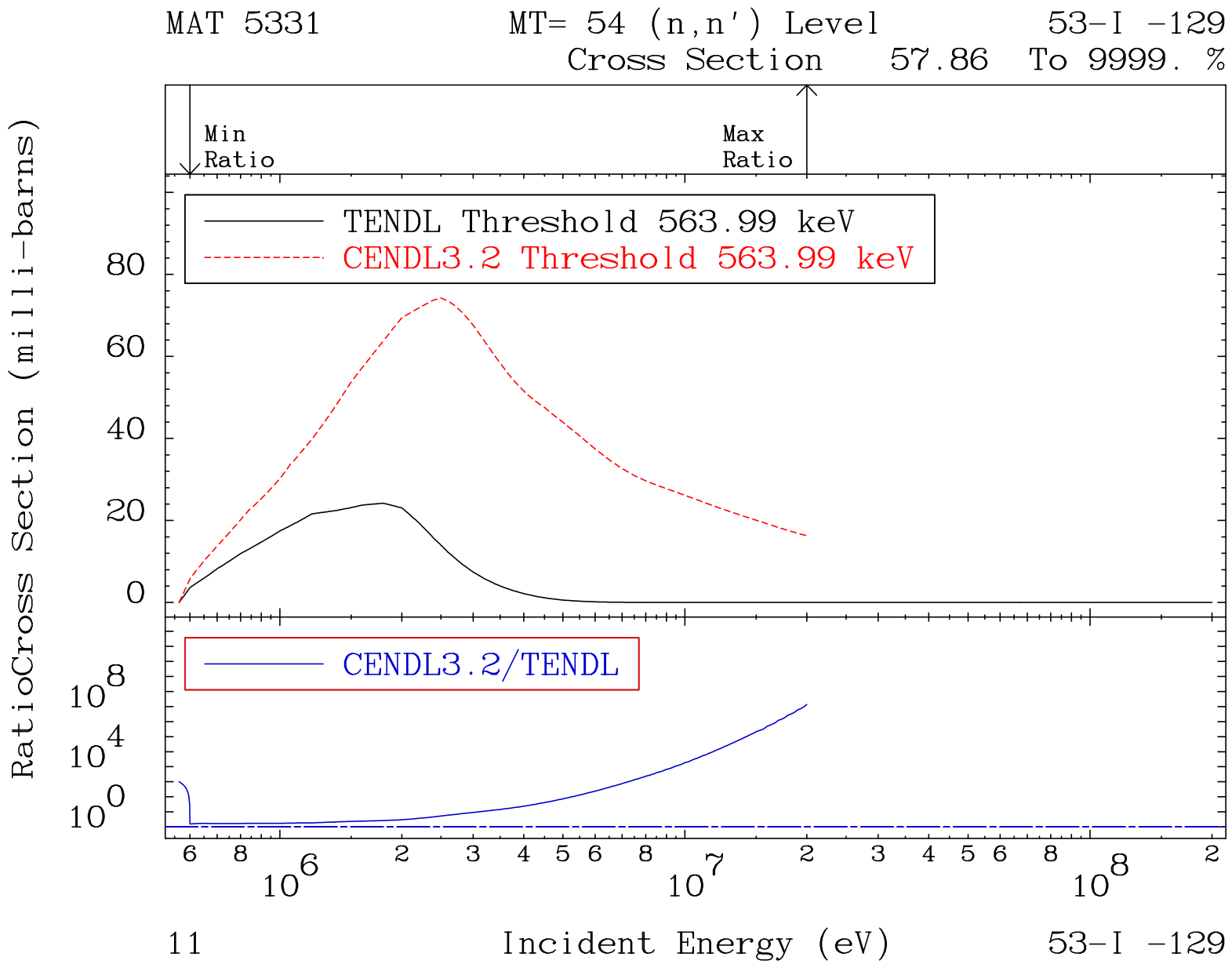

MAT 5331
(n,n') α
Cross Section
53-I -129
-100.0 To -21.94%
Min Ratio
Max Ratio
TENDL Threshold 2.6979 MeV
CENDL3.2 Threshold 13.750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
6
53-I -129

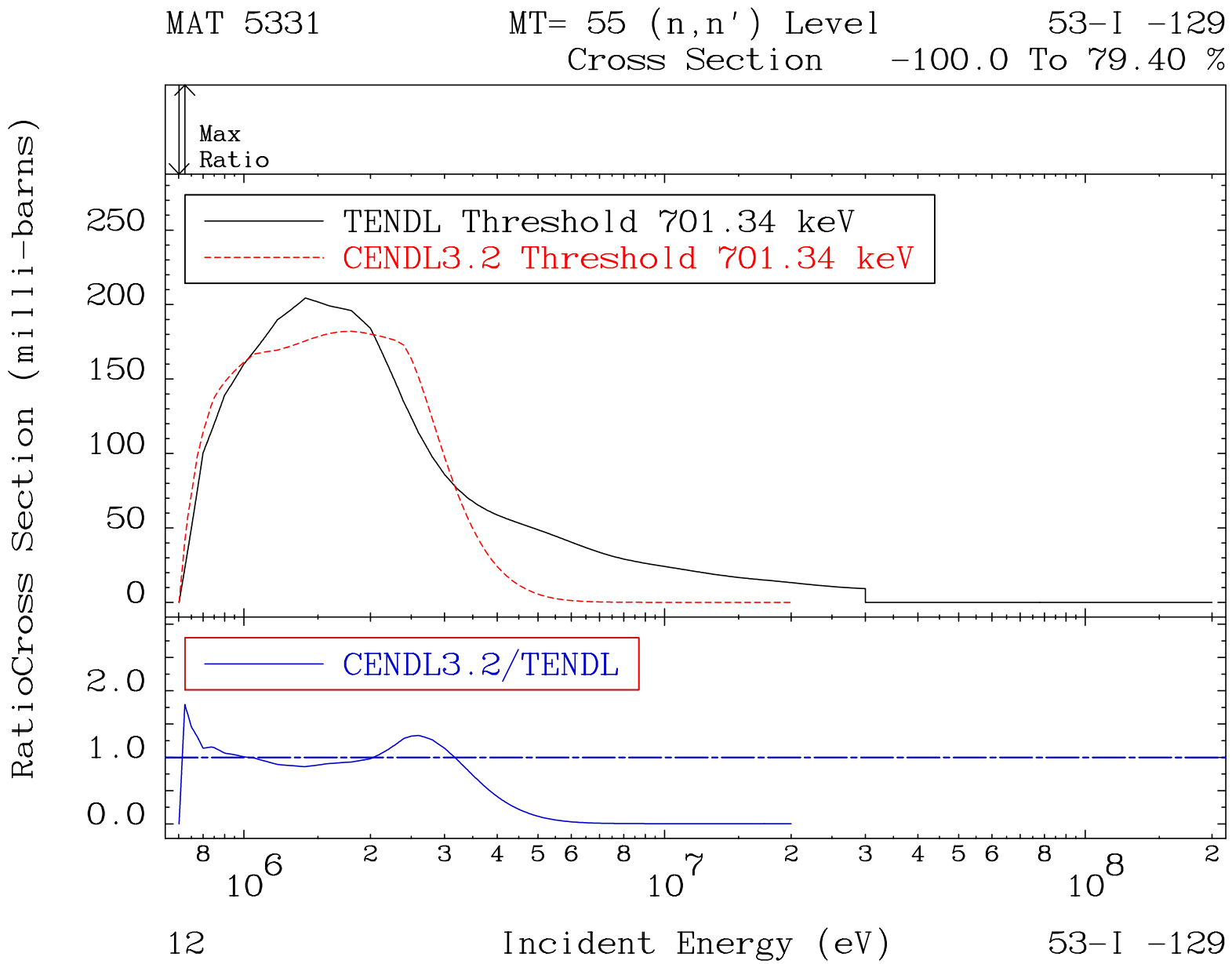

MAT 5331
(n,n') p
Cross Section
53-I -129
-100.0 To -49.27%
Min Ratio
Max Ratio
TENDL Threshold 6.8556 MeV
CENDL3.2 Threshold 12.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
0.4
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
53-I -129

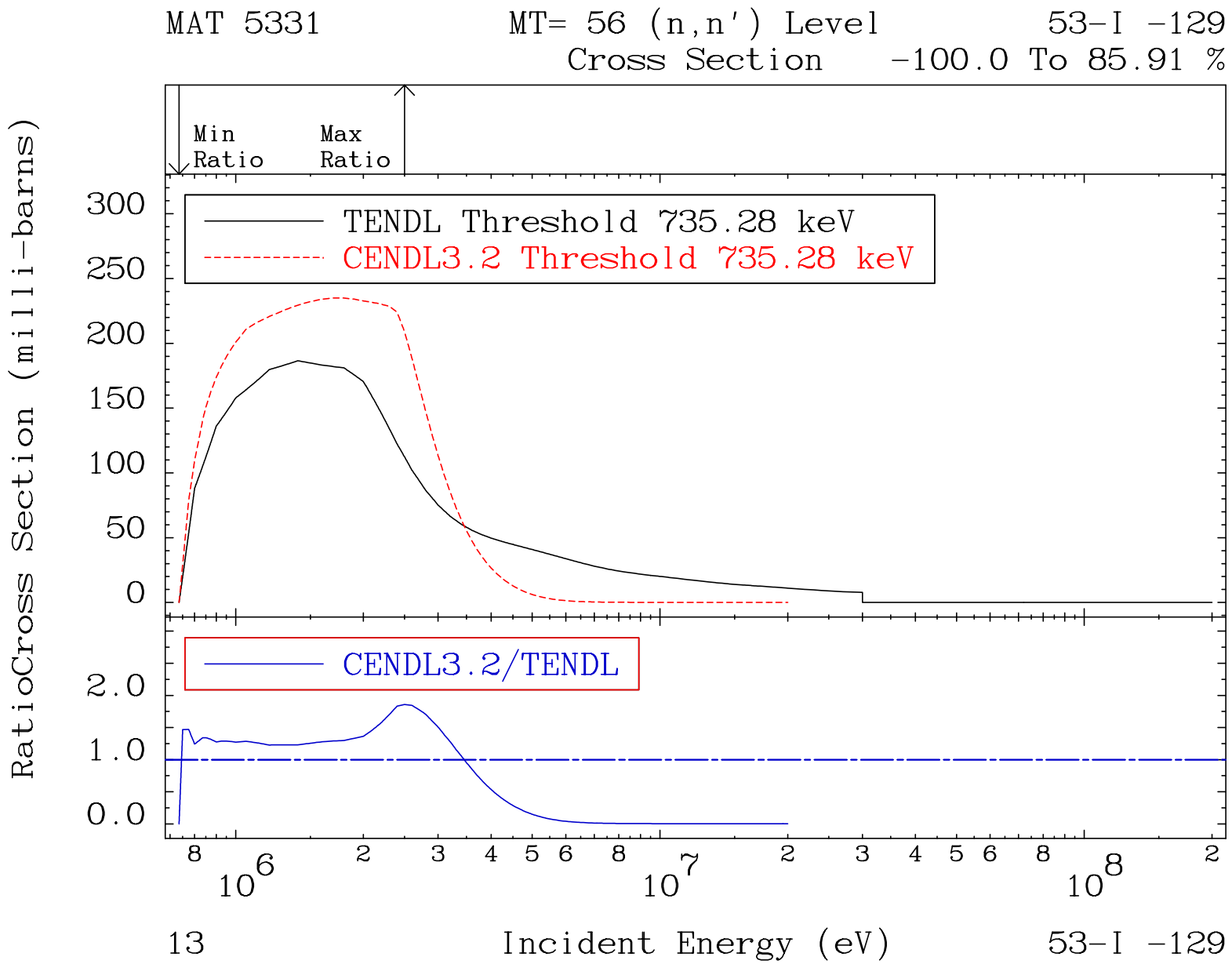

MAT 5331
MT= 51 (n,n') Level
53-I -129
Cross Section -100.0 To 389.8 %
Min Ratio
Max Ratio
TENDL Threshold 28.010 keV
CENDL3.2 Threshold 29.100 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
4
0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
Incident Energy (eV)
8
53-I -129

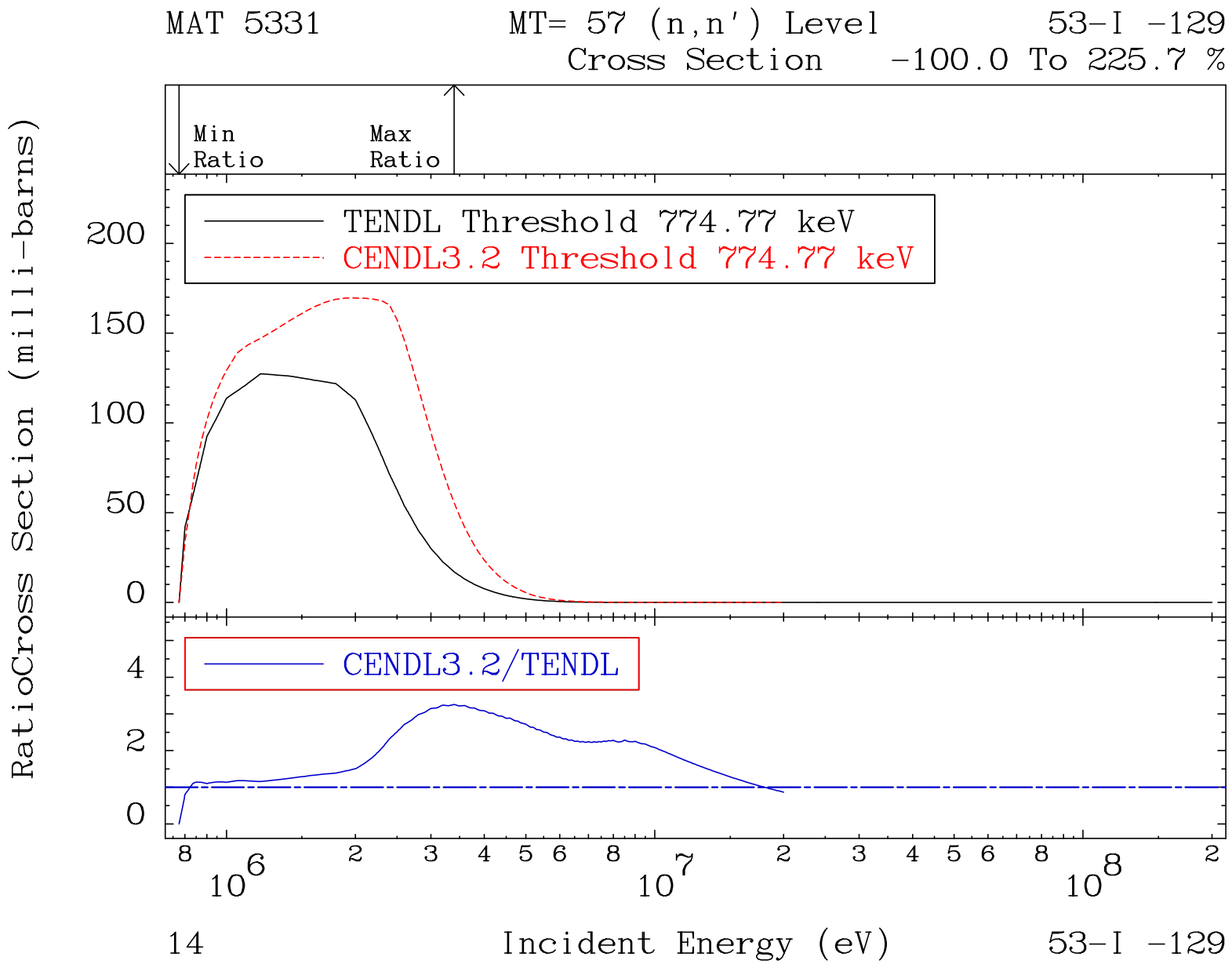

MAT 5331
MT= 52 (n,n') Level
53-I -129
Cross Section -100.0 To 523.9 %
Min Ratio
Max Ratio
TENDL Threshold 280.56 keV
CENDL3.2 Threshold 280.56 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
8
4
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
9
53-I -129

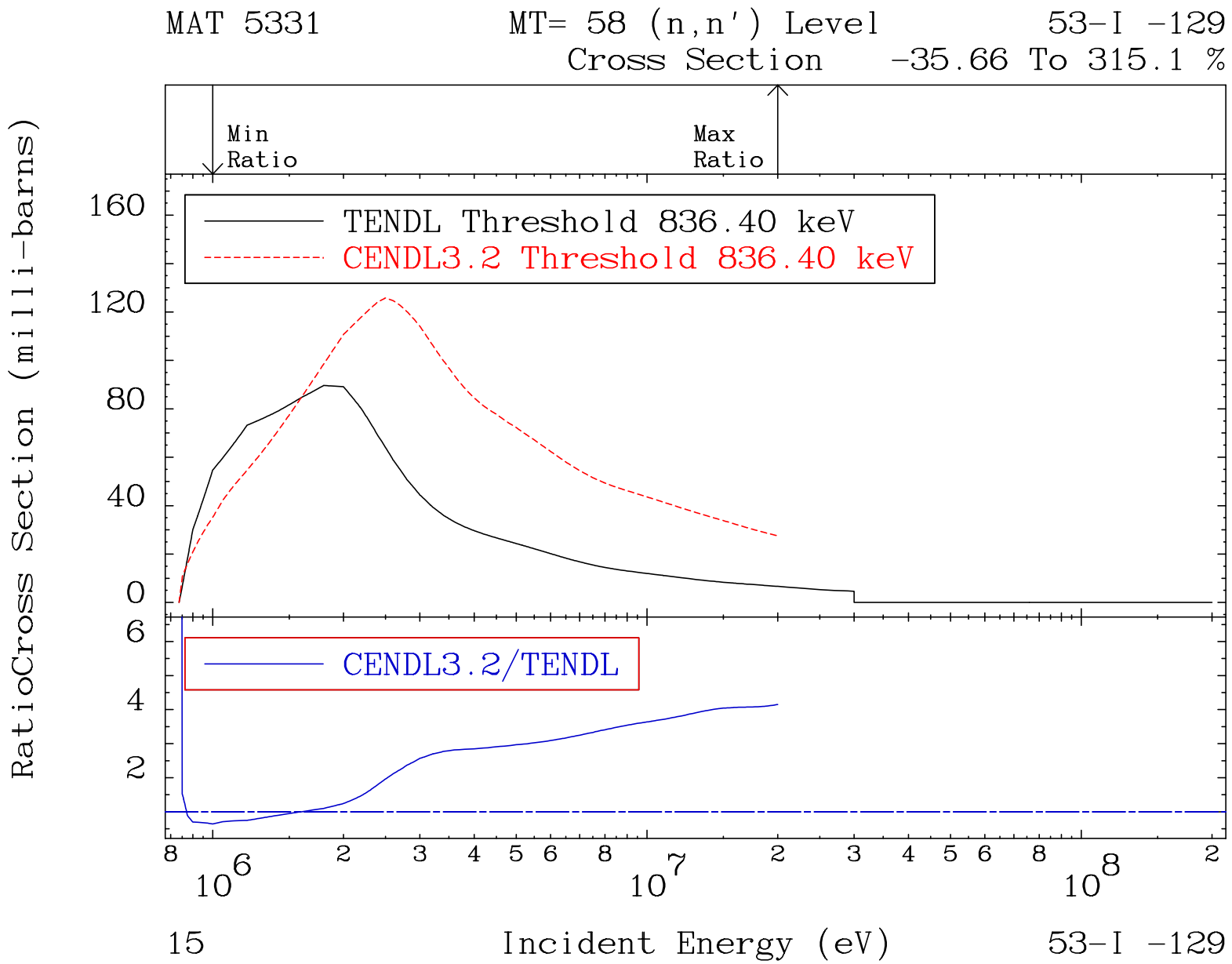

MAT 5331
MT= 53 (n,n') Level
53-I -129
Cross Section
-100.0 To 200.3 %
Min Ratio
Max Ratio
TENDL Threshold 491.16 keV
CENDL3.2 Threshold 491.21 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
150
100
50
0
4
2
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
53-I -129

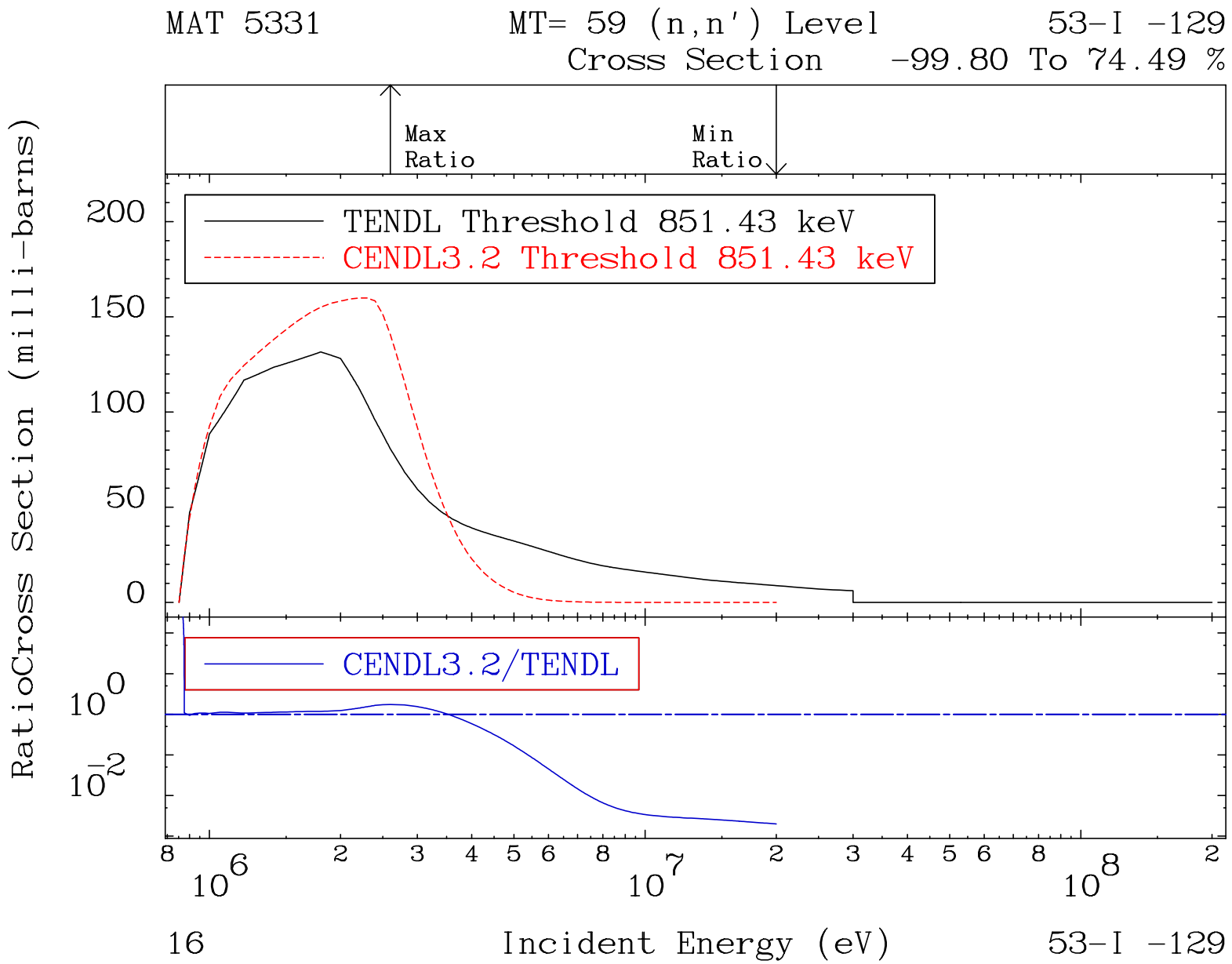

MAT 5331
MT= 54 (n,n') Level
53-I -129
Cross Section 57.86 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 563.99 keV
CENDL3.2 Threshold 563.99 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^8
10^4
10^0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
53-I -129

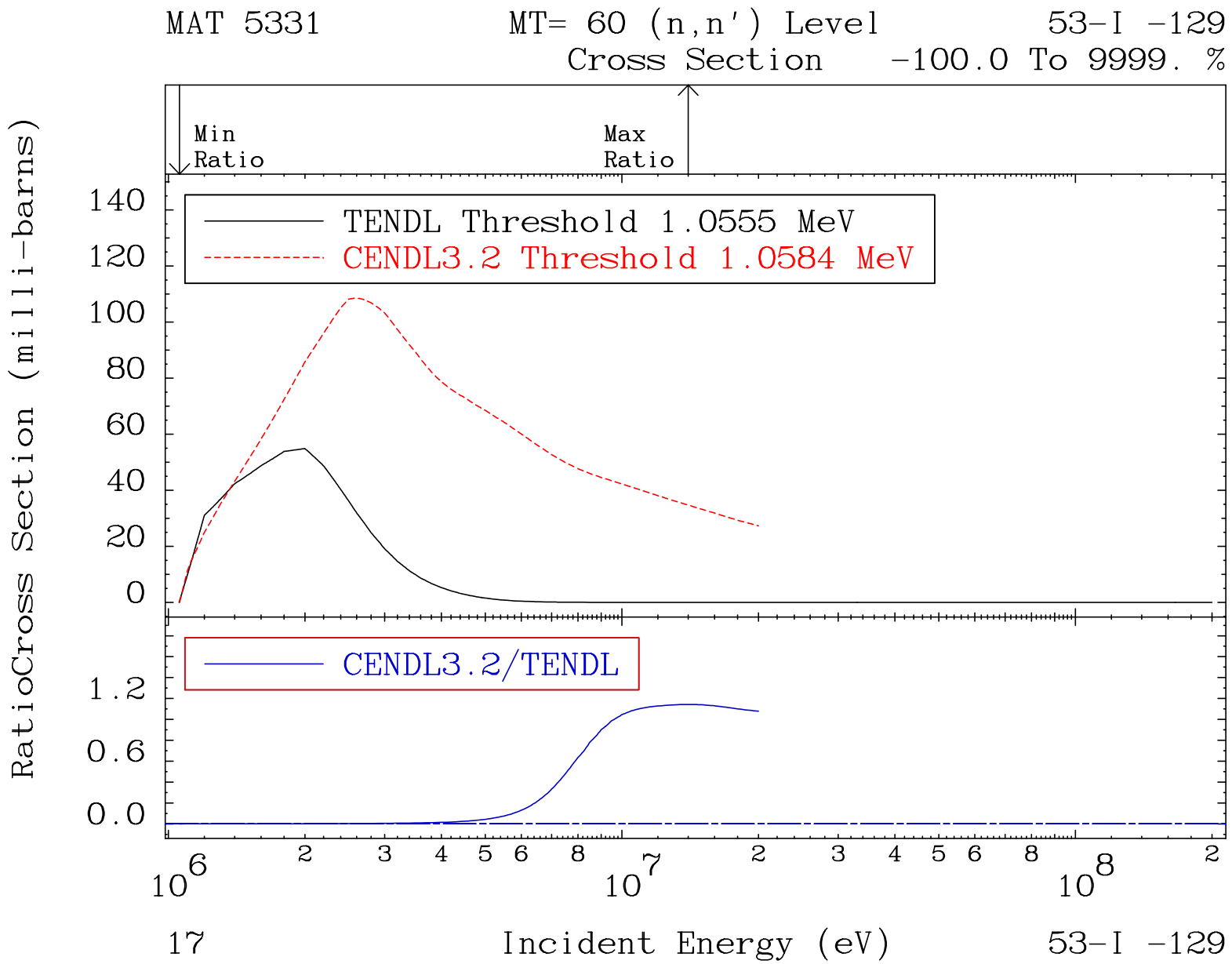

MAT 5331
MT= 55 (n,n') Level
53-I -129
Cross Section -100.0 To 79.40 %
Max
Ratio
TENDL Threshold 701.34 keV
CENDL3.2 Threshold 701.34 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
12
Incident Energy (eV)
53-I -129

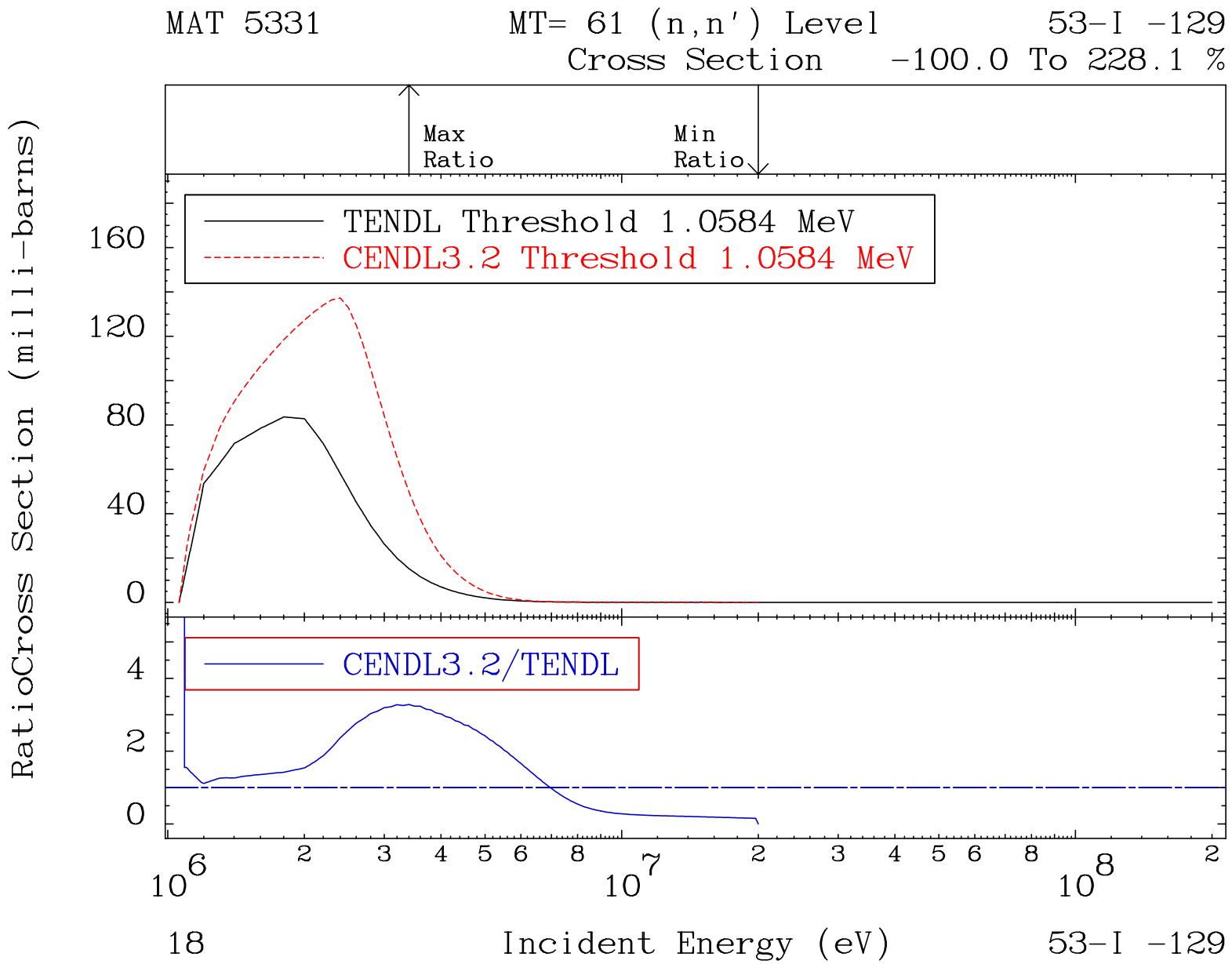

MAT 5331
MT= 56 (n,n') Level
53-I -129
Cross Section -100.0 To 85.91 %
Min Ratio
Max Ratio
TENDL Threshold 735.28 keV
CENDL3.2 Threshold 735.28 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
53-I -129

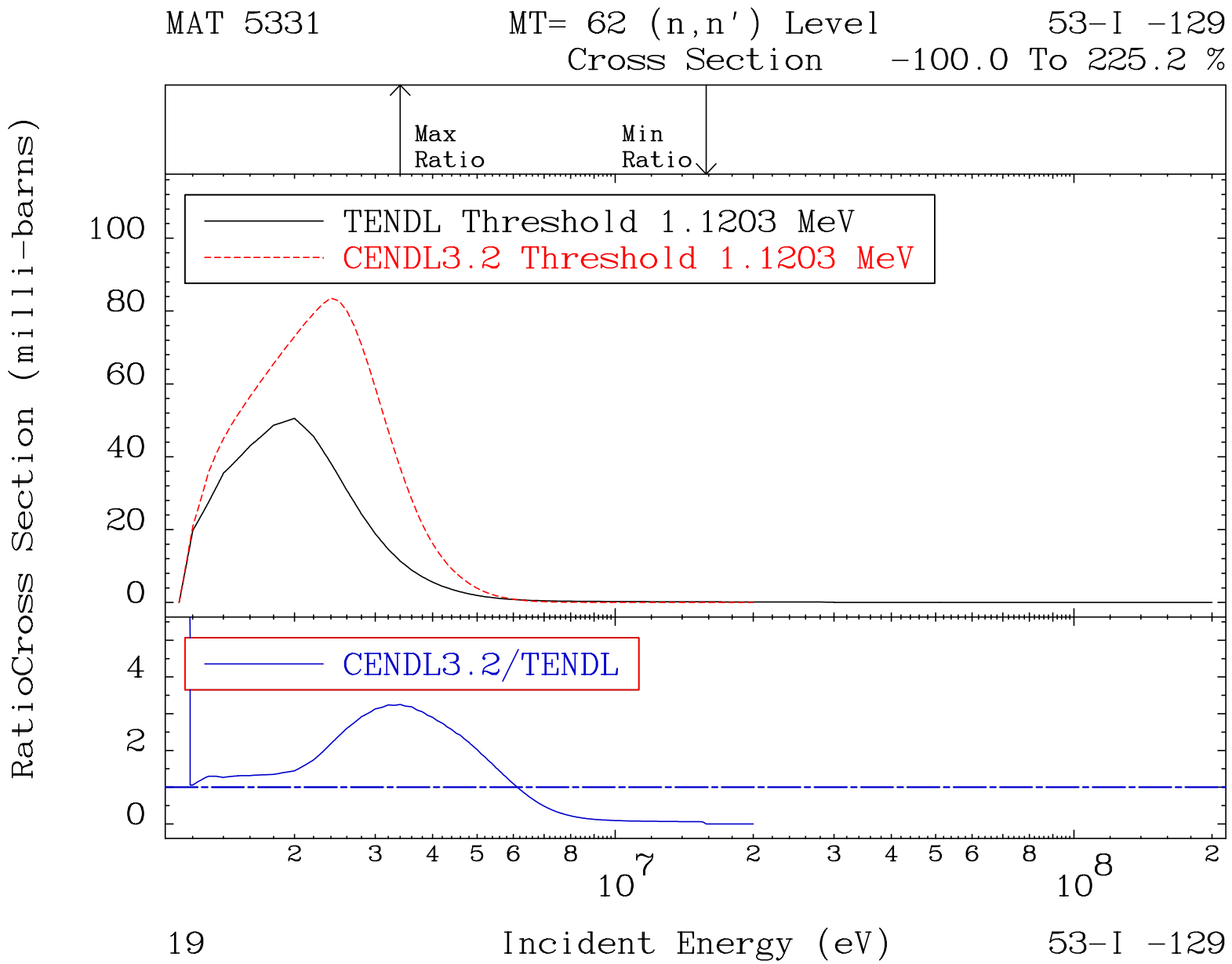

MAT 5331
MT= 57 (n,n') Level
53-I -129
Cross Section -100.0 To 225.7 %
Min Ratio
Max Ratio
TENDL Threshold 774.77 keV
CENDL3.2 Threshold 774.77 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
2
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
14
Incident Energy (eV)
53-I -129

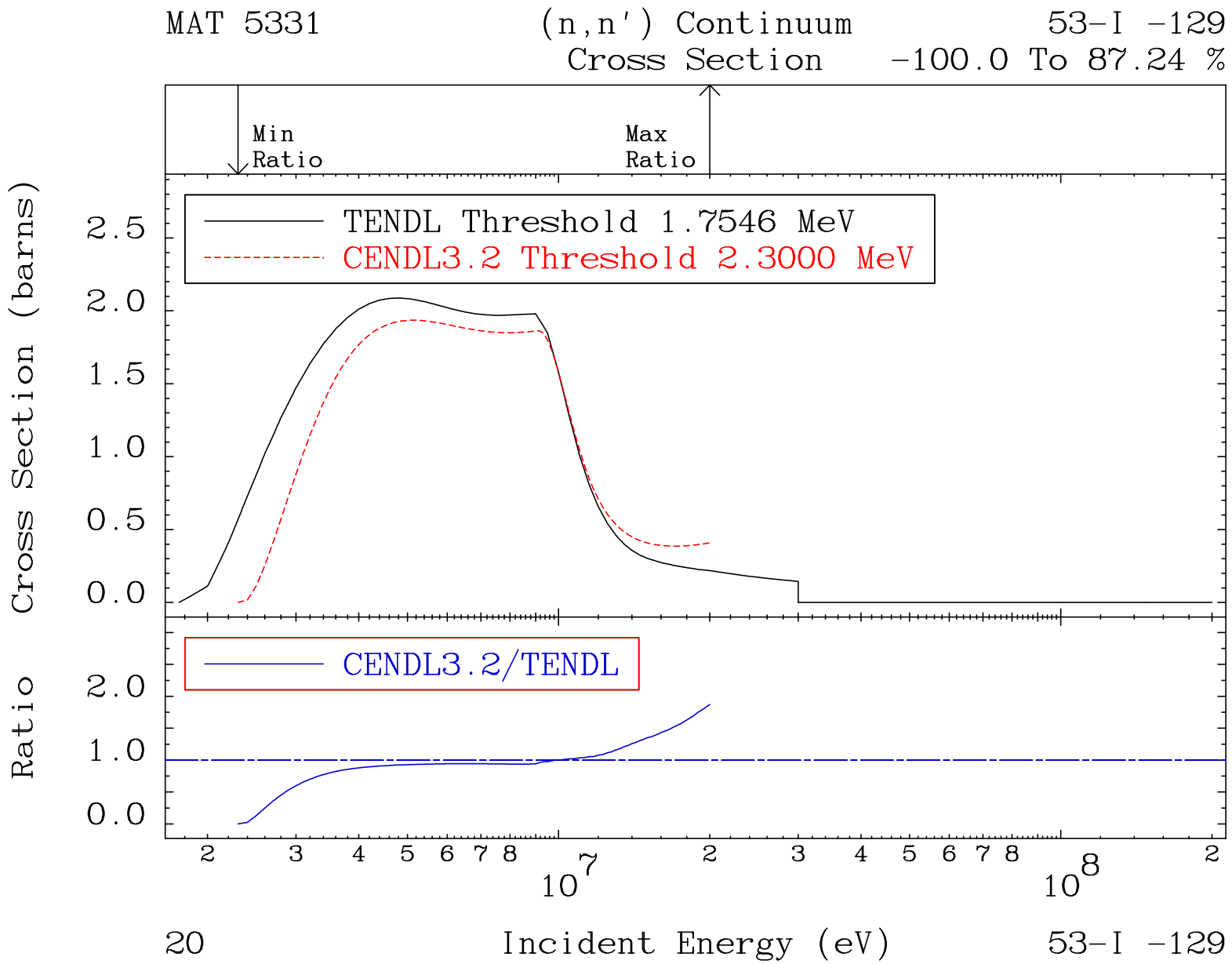

MAT 5331
MT= 58 (n,n') Level
53-I -129
Cross Section
-35.66 To 315.1 %
Min Ratio
Max Ratio
TENDL Threshold 836.40 keV
CENDL3.2 Threshold 836.40 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
6
4
2
8
2
3
4
5
6
8
10^6
10^7
10^8
15
Incident Energy (eV)
53-I -129

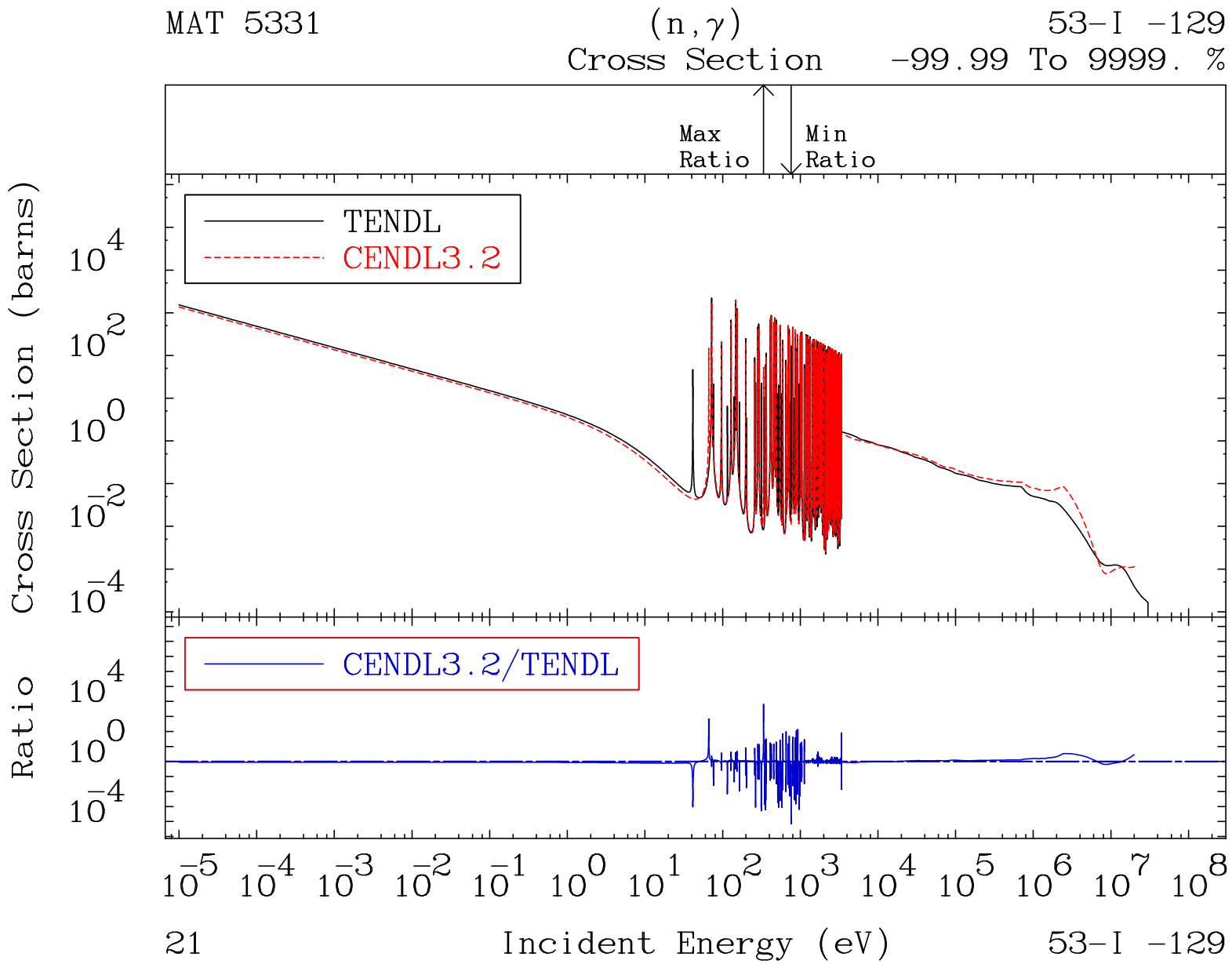

MAT 5331
MT= 59 (n,n') Level
53-I -129
Cross Section -99.80 To 74.49 %
Max Ratio
Min Ratio
TENDL Threshold 851.43 keV
CENDL3.2 Threshold 851.43 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^0
10^-2
8 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
53-I -129

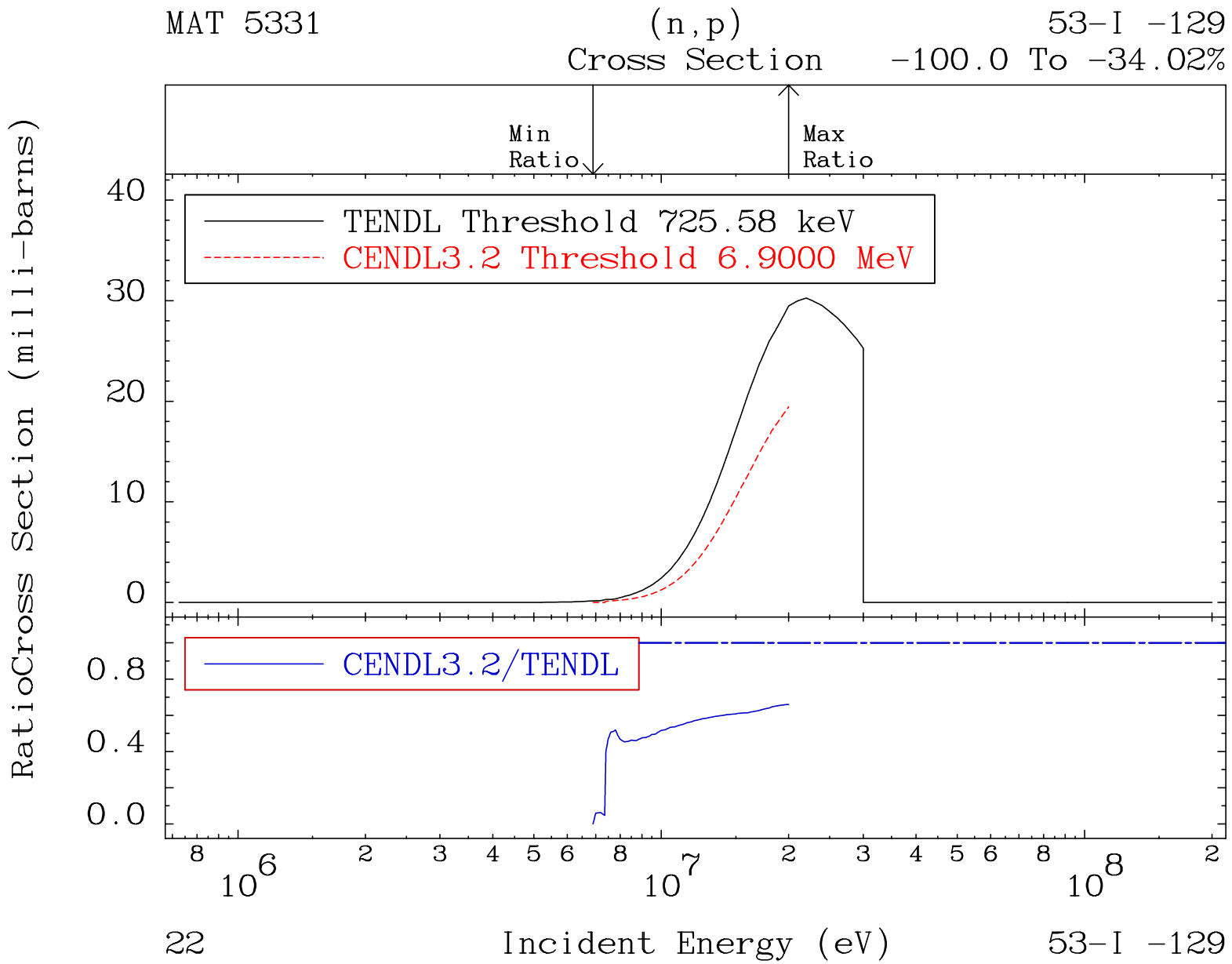

MAT 5331
MT= 60 (n,n') Level
53-I -129
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0555 MeV
CENDL3.2 Threshold 1.0584 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
10^6
10^7
10^8
Incident Energy (eV)
17
53-I -129

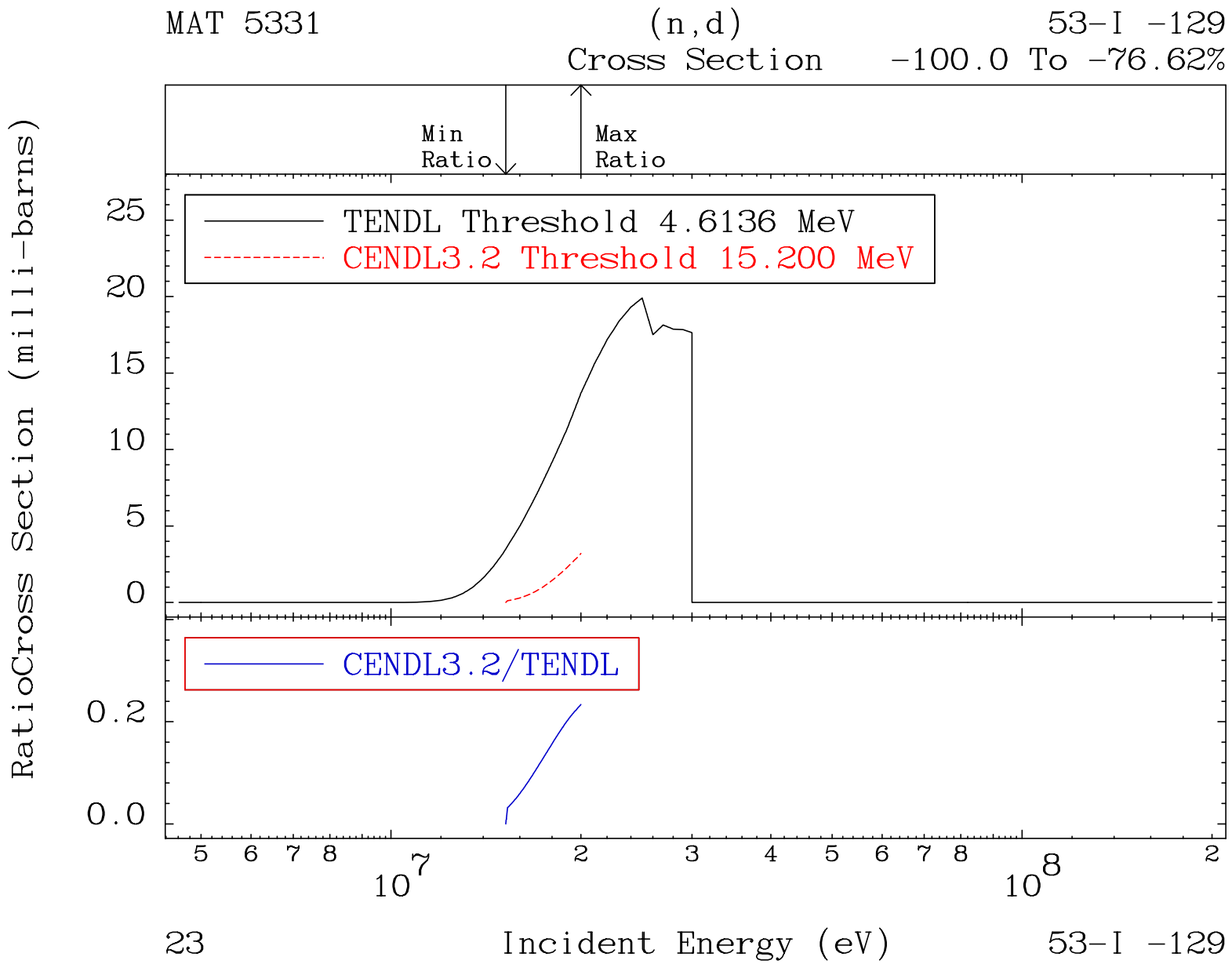

MAT 5331
MT= 61 (n,n') Level
53-I -129
Cross Section -100.0 To 228.1 %
Max Ratio
Min Ratio
TENDL Threshold 1.0584 MeV
CENDL3.2 Threshold 1.0584 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
4
2
0
10^6
10^7
10^8
Incident Energy (eV)
18
53-I -129

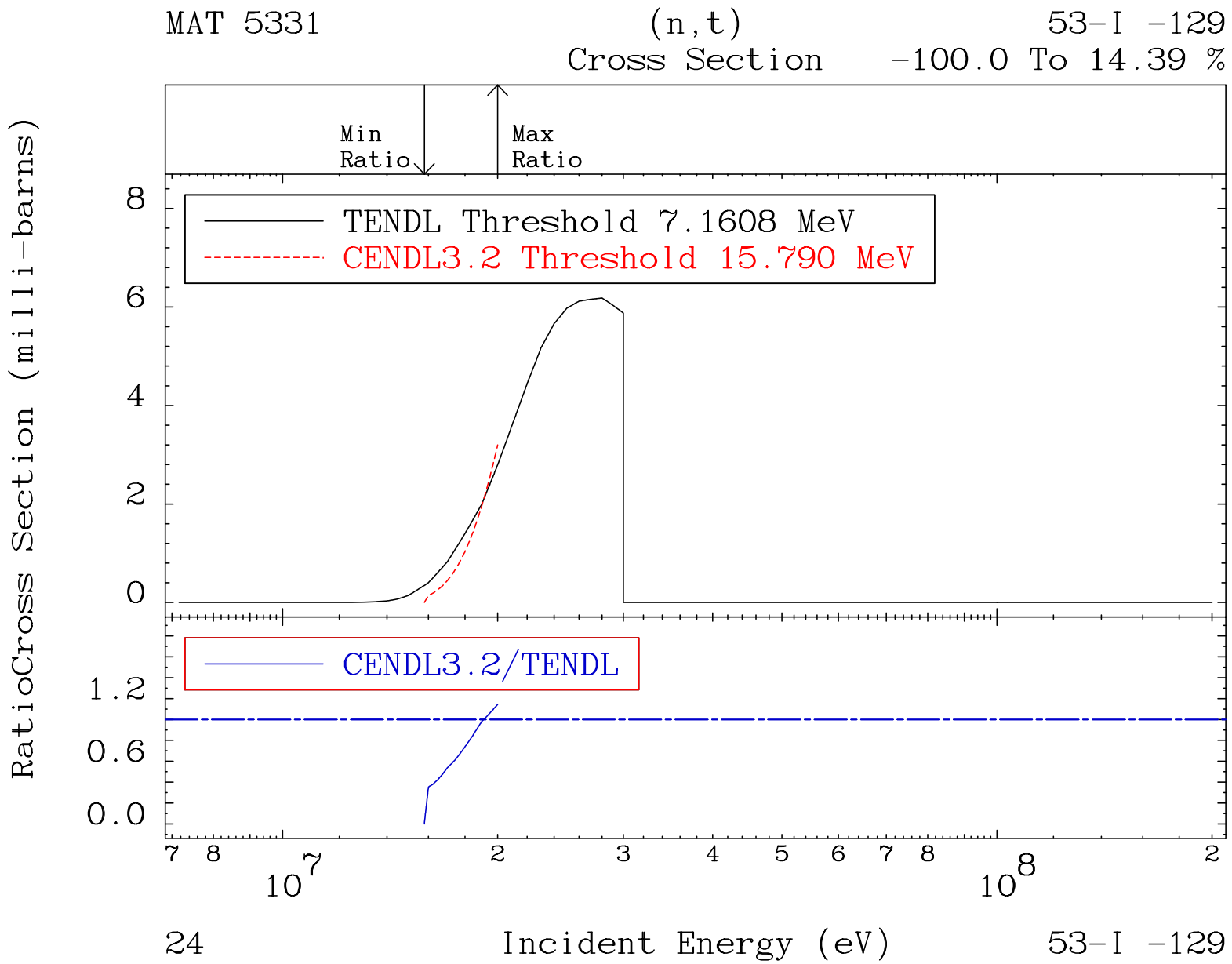

MAT 5331
MT= 62 (n,n') Level
53-I -129
Cross Section -100.0 To 225.2 %
Max Ratio
Min Ratio
TENDL Threshold 1.1203 MeV
CENDL3.2 Threshold 1.1203 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
53-I -129

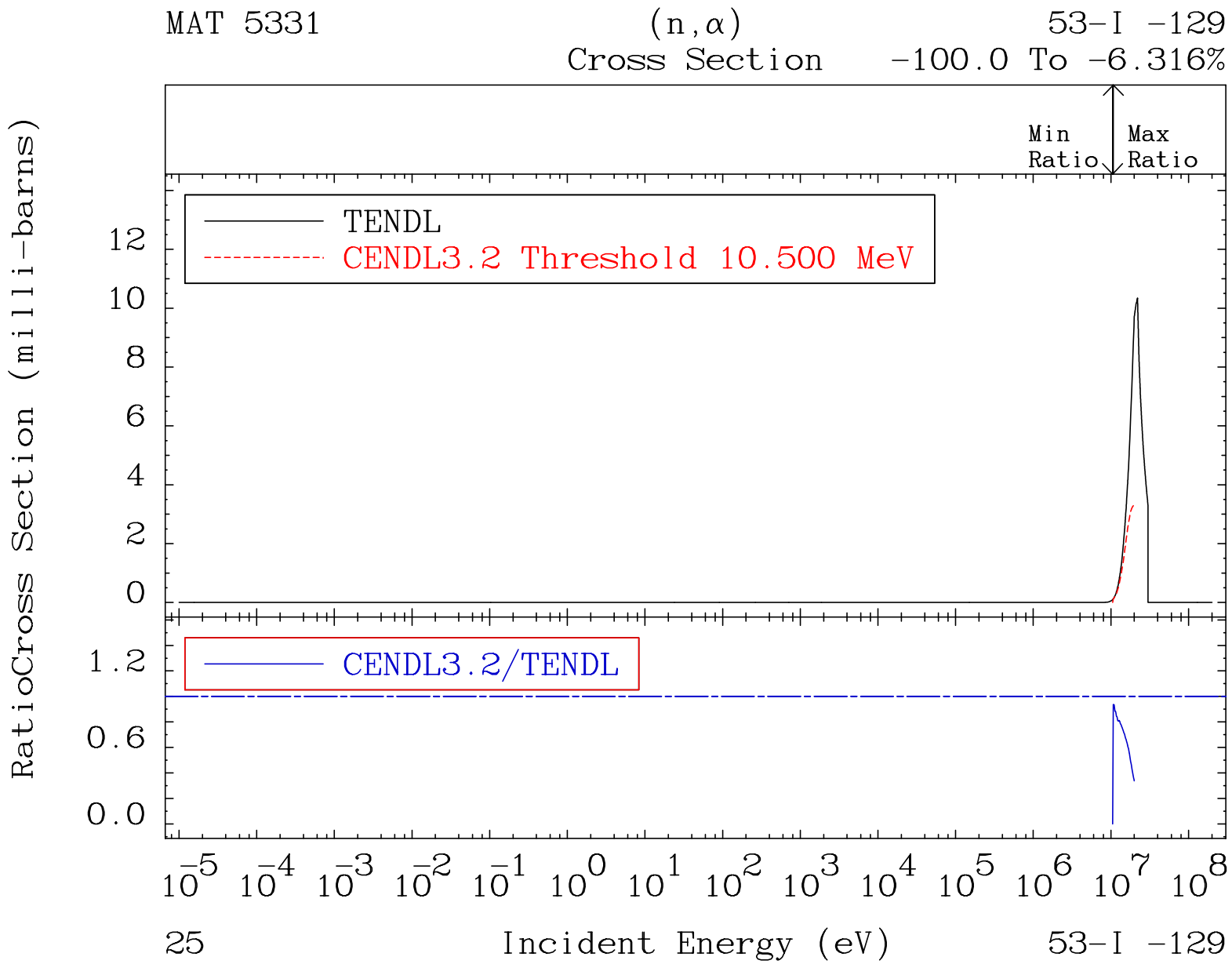

MAT 5331
(n,n') Continuum
Cross Section
53-I -129
-100.0 To 87.24 %
Min Ratio
Max Ratio
TENDL Threshold 1.7546 MeV
CENDL3.2 Threshold 2.3000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
53-I -129

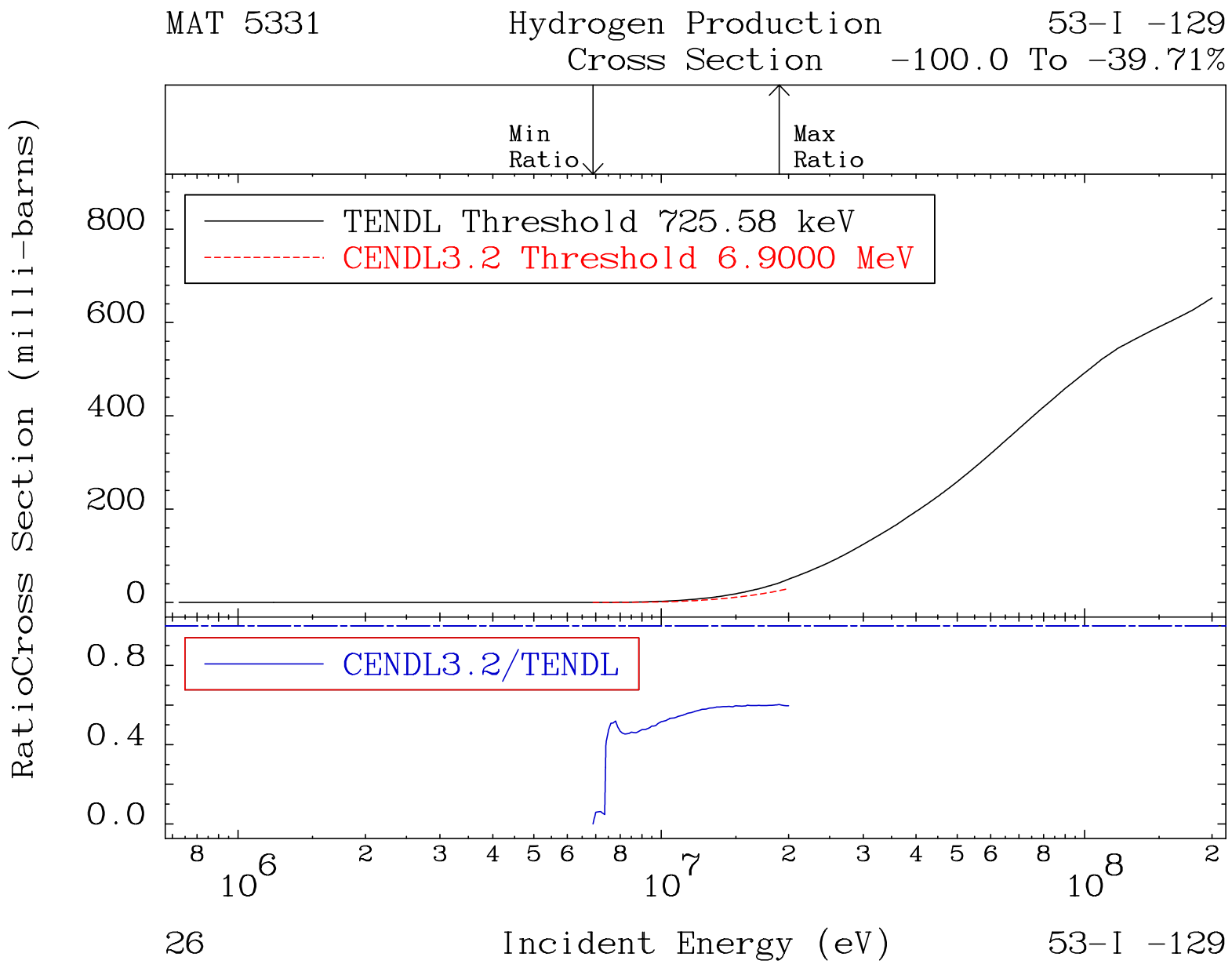

MAT 5331
(n,γ)
Cross Section
53-I -129
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
21
53-I -129

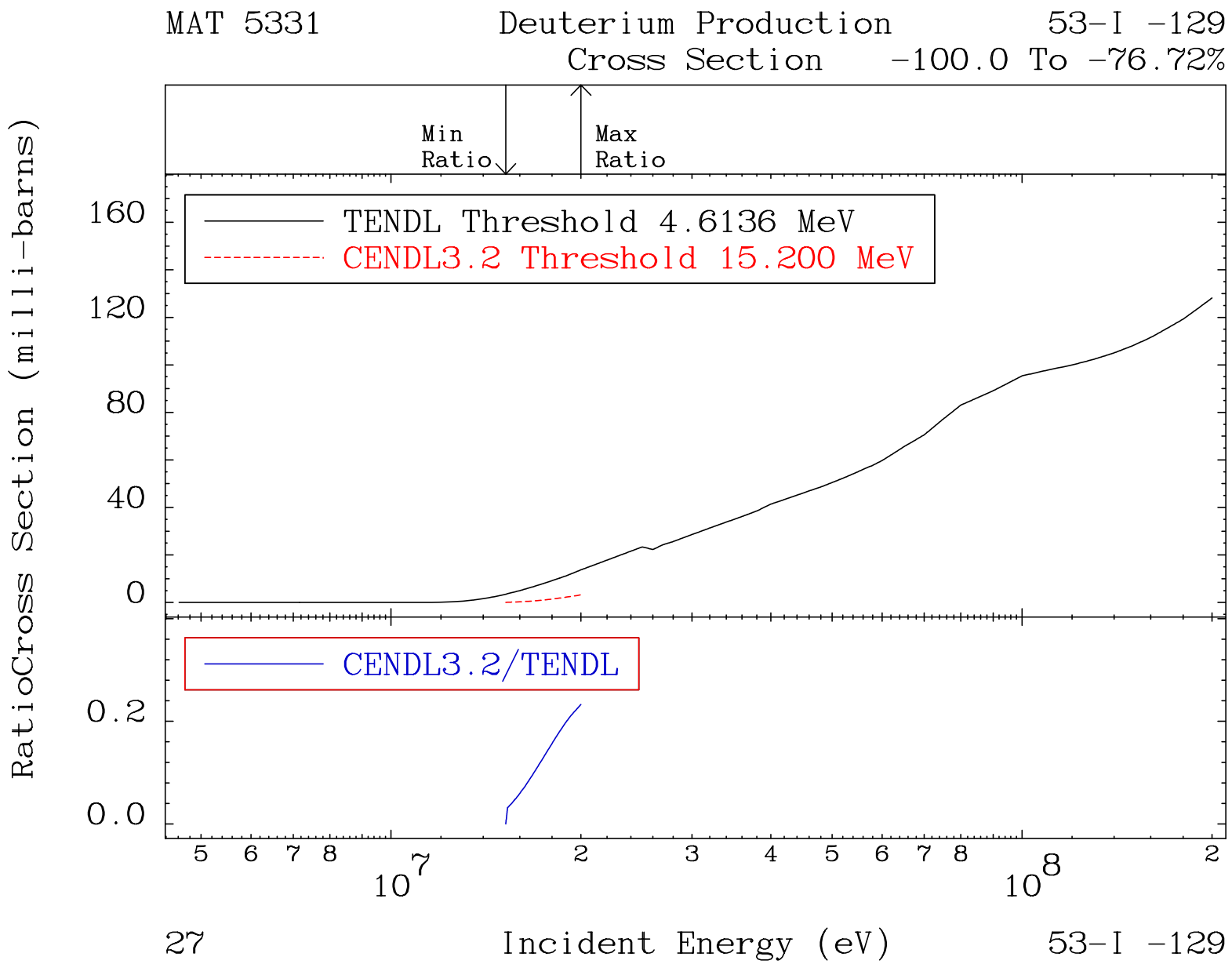

MAT 5331
(n,p)
Cross Section
53-I -129
-100.0 To -34.02%
Min Ratio
Max Ratio
TENDL Threshold 725.58 keV
CENDL3.2 Threshold 6.9000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
0.8
0.4
0.0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
22
Incident Energy (eV)
53-I -129

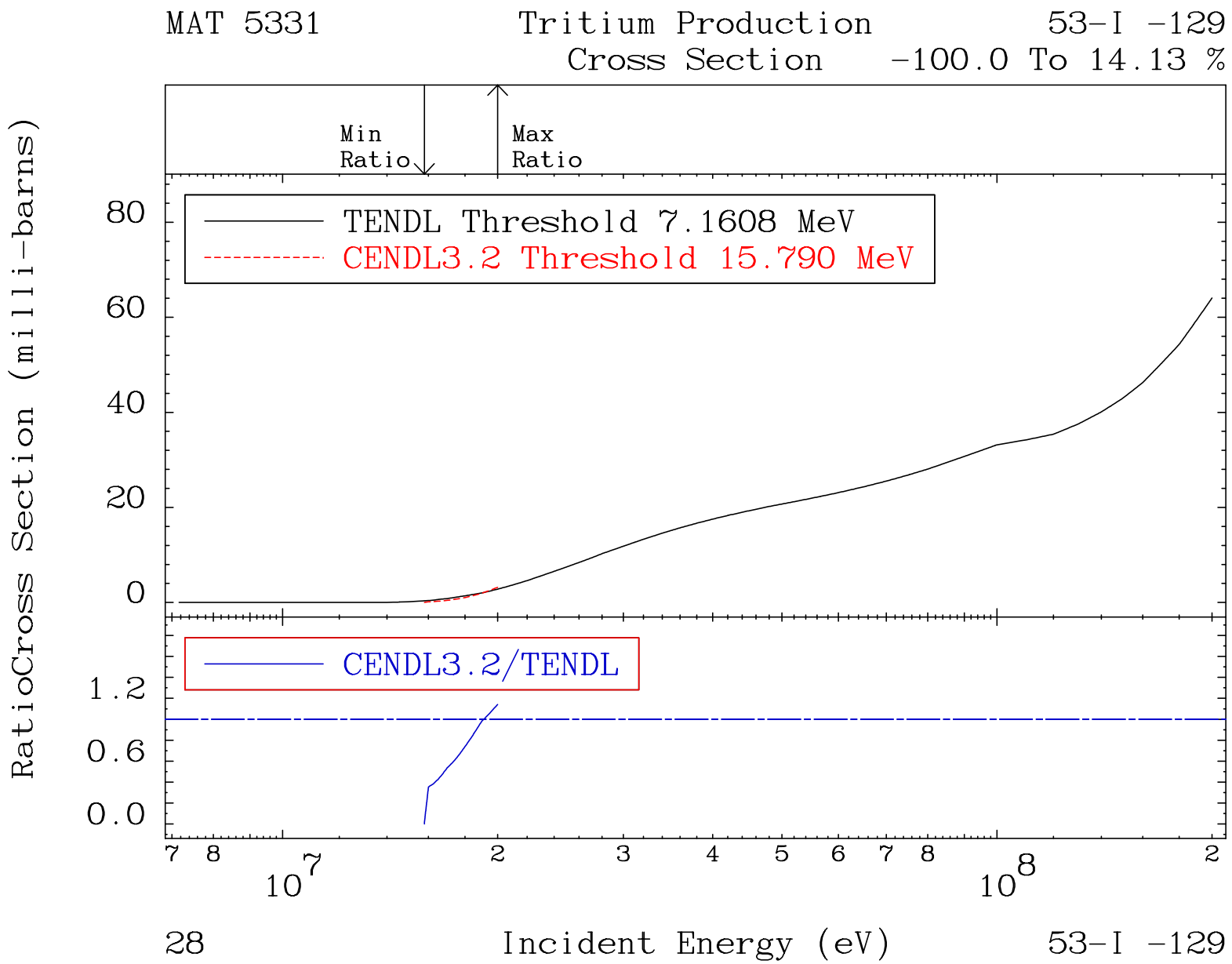

MAT 5331
(n,d)
53-I -129
Cross Section
-100.0 To -76.62%
Min Ratio
Max Ratio
TENDL Threshold 4.6136 MeV
CENDL3.2 Threshold 15.200 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
0.2
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
53-I -129

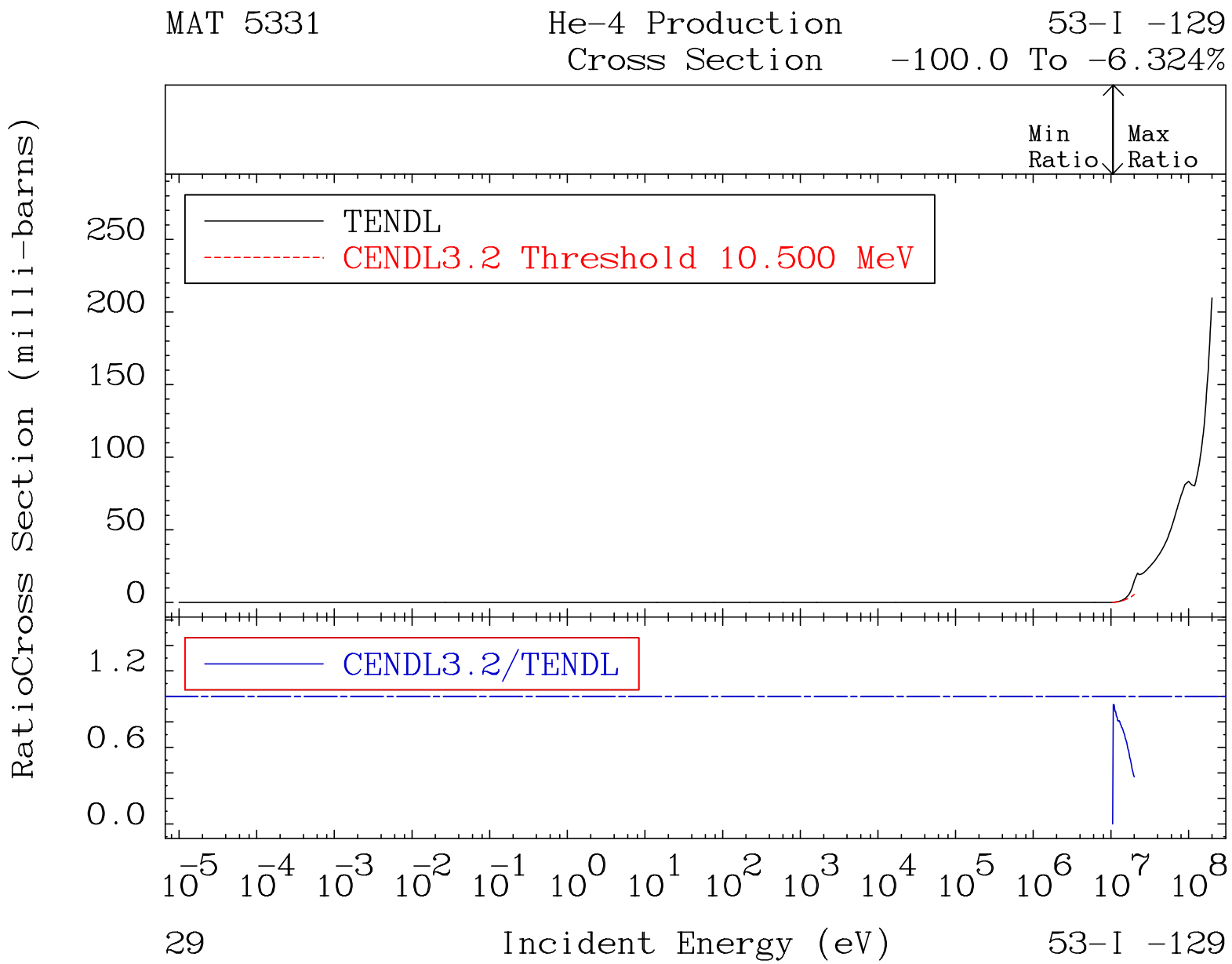

MAT 5331
(n,t)
Cross Section
53-I -129
-100.0 To 14.39 %
Min Ratio
Max Ratio
TENDL Threshold 7.1608 MeV
CENDL3.2 Threshold 15.790 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
53-I -129

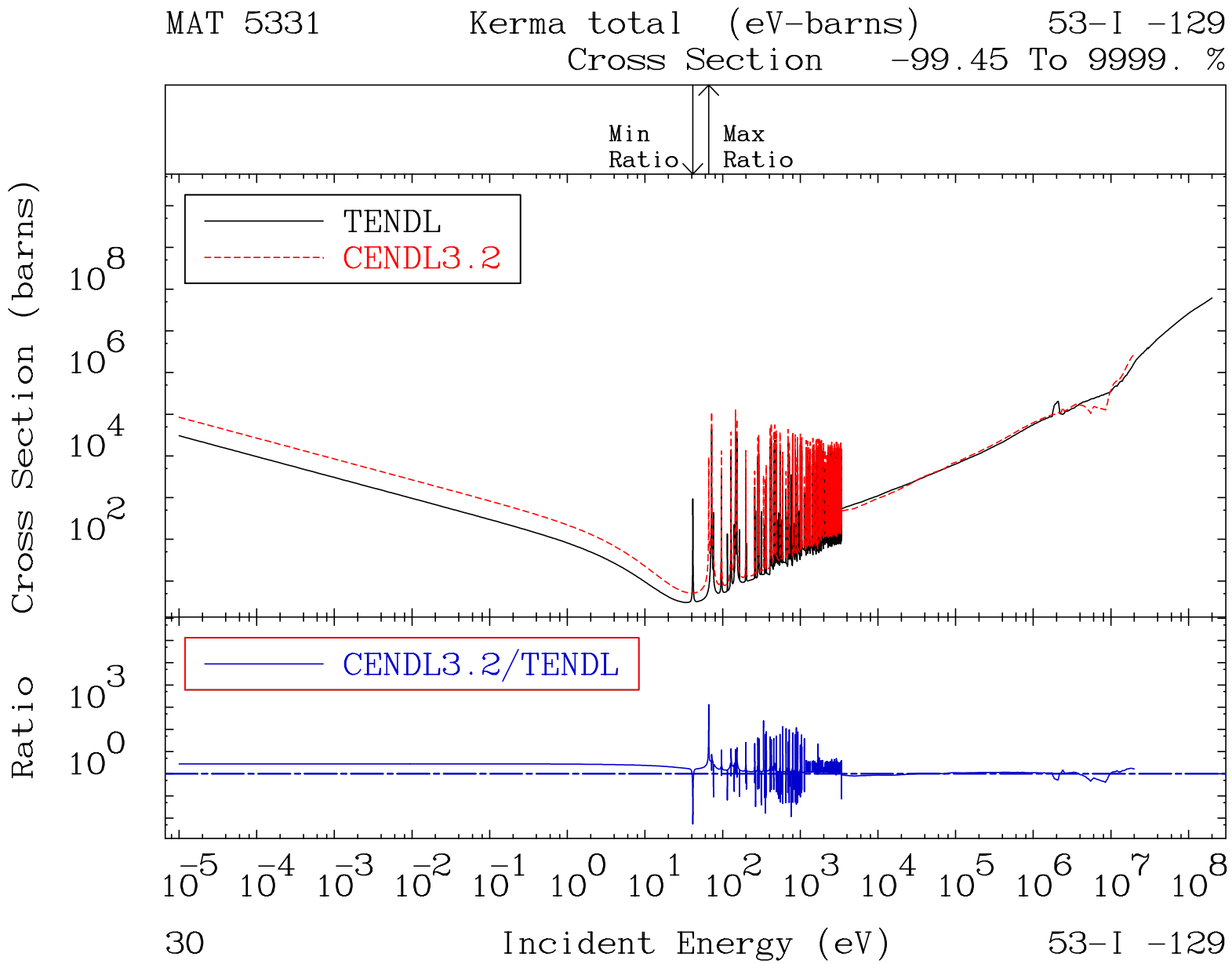

MAT 5331
(n,α)
Cross Section
53-I -129
-100.0 To -6.316%
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
53-I -129

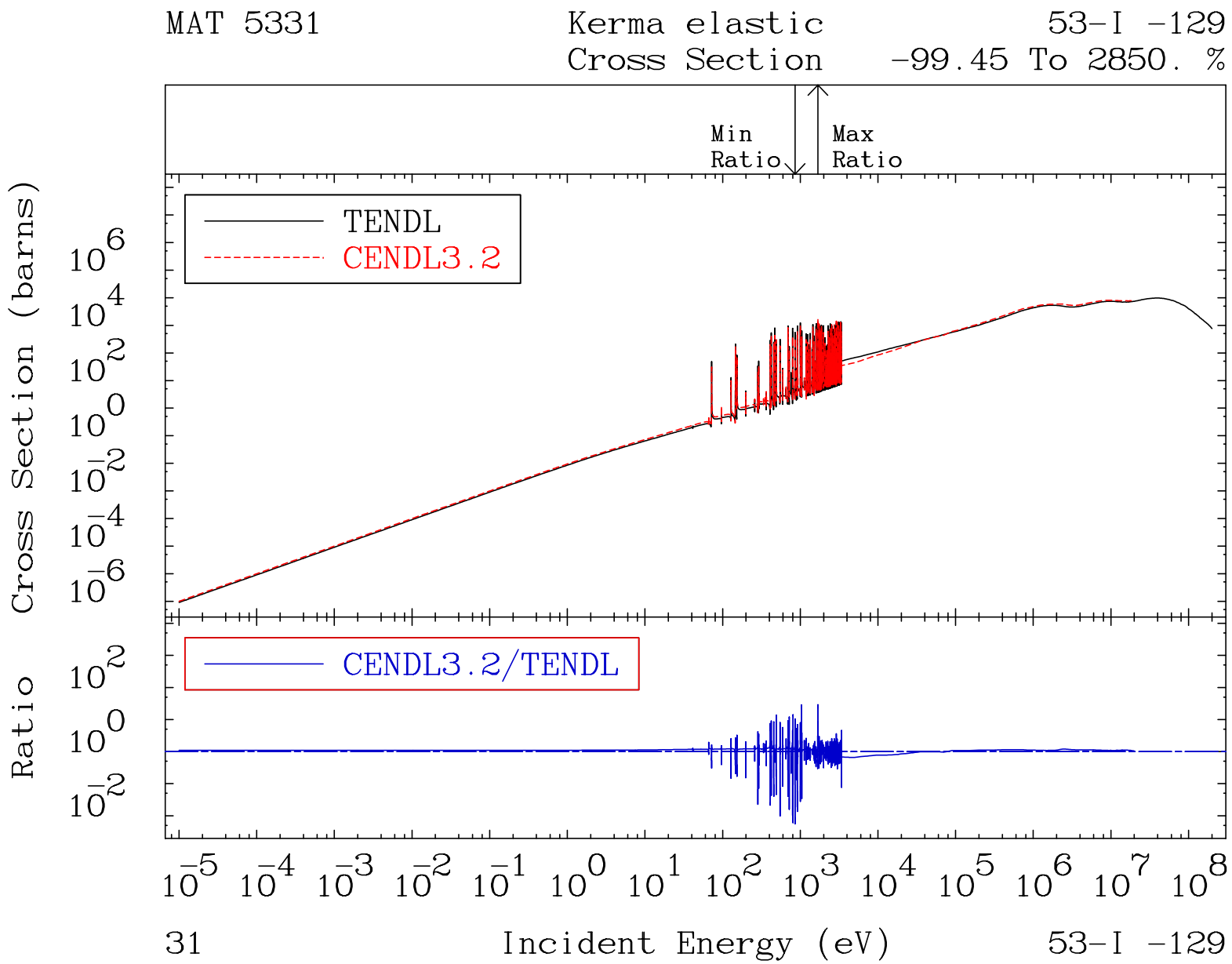

MAT 5331
Hydrogen Production
53-I -129
Cross Section
-100.0 To -39.71%
Min Ratio
Max Ratio
TENDL Threshold 725.58 keV
CENDL3.2 Threshold 6.9000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
0.8
0.4
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
26
Incident Energy (eV)
53-I -129

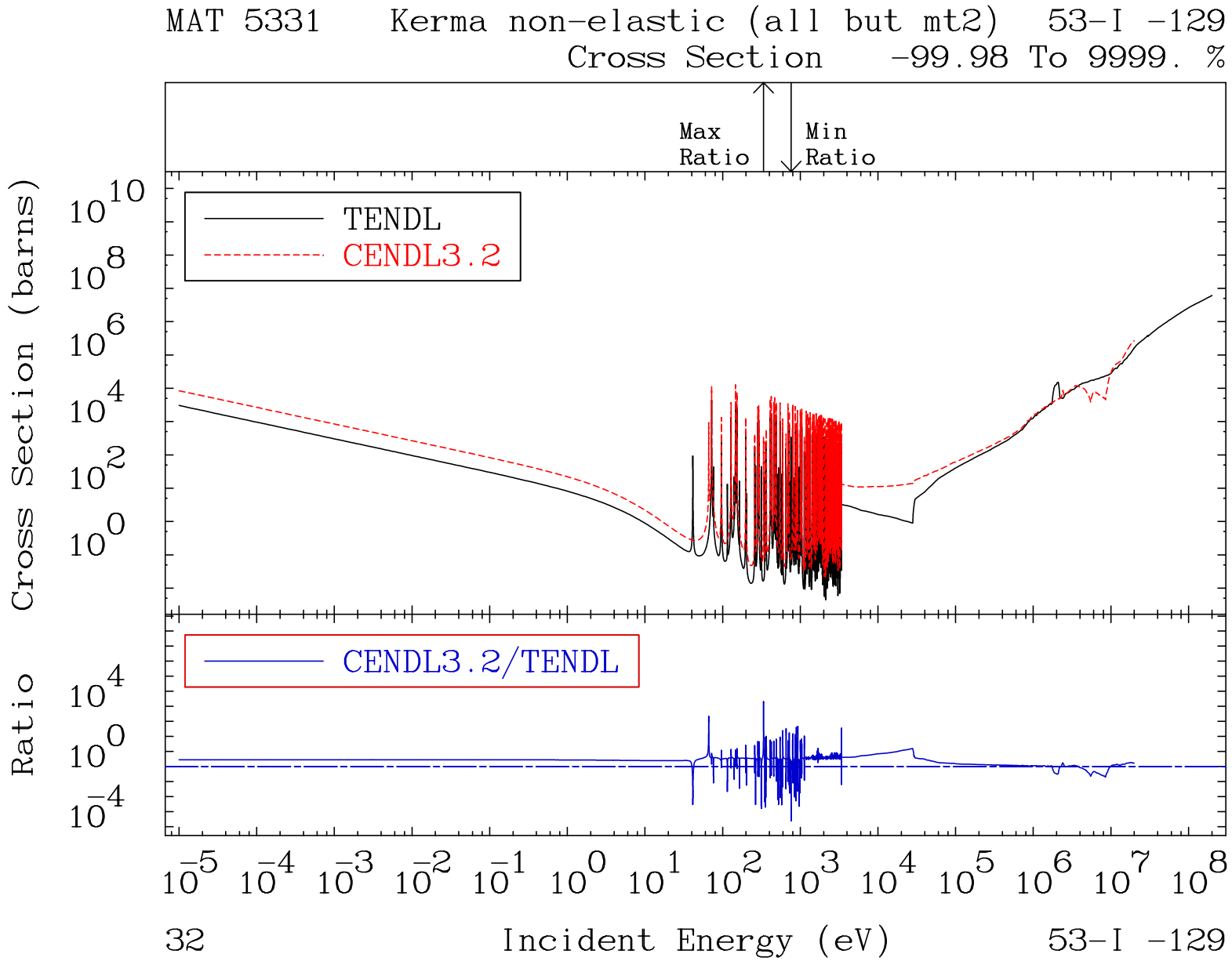

MAT 5331
Deuterium Production
53-I -129
Cross Section -100.0 To -76.72%
Min Ratio
Max Ratio
TENDL Threshold 4.6136 MeV
CENDL3.2 Threshold 15.200 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
0.2
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
53-I -129

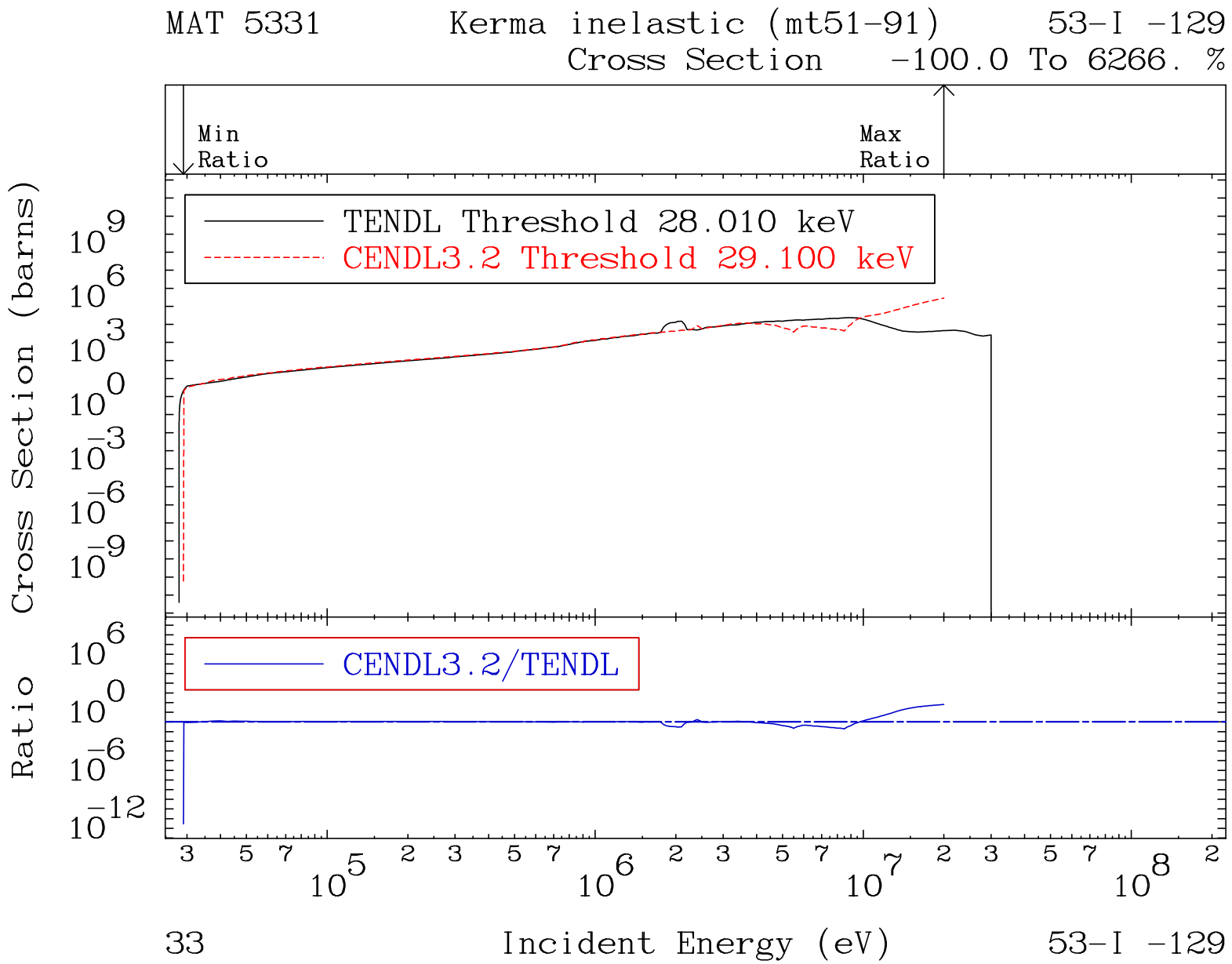

MAT 5331
Tritium Production
53-I -129
Cross Section
-100.0 To 14.13 %
Min Ratio
Max Ratio
TENDL Threshold 7.1608 MeV
CENDL3.2 Threshold 15.790 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
53-I -129

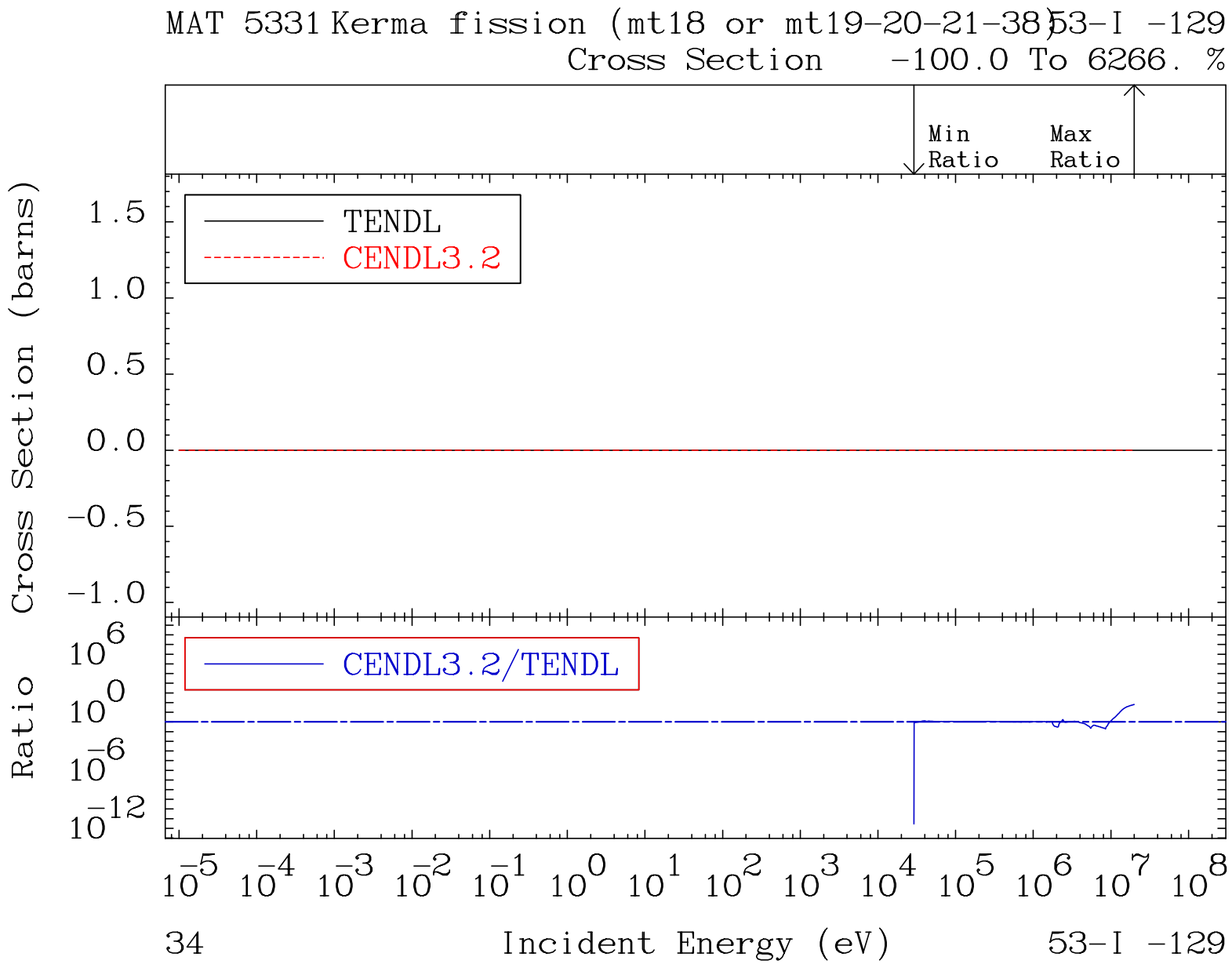

MAT 5331
He-4 Production
Cross Section
53-I -129
-100.0 To -6.324%
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
53-I -129

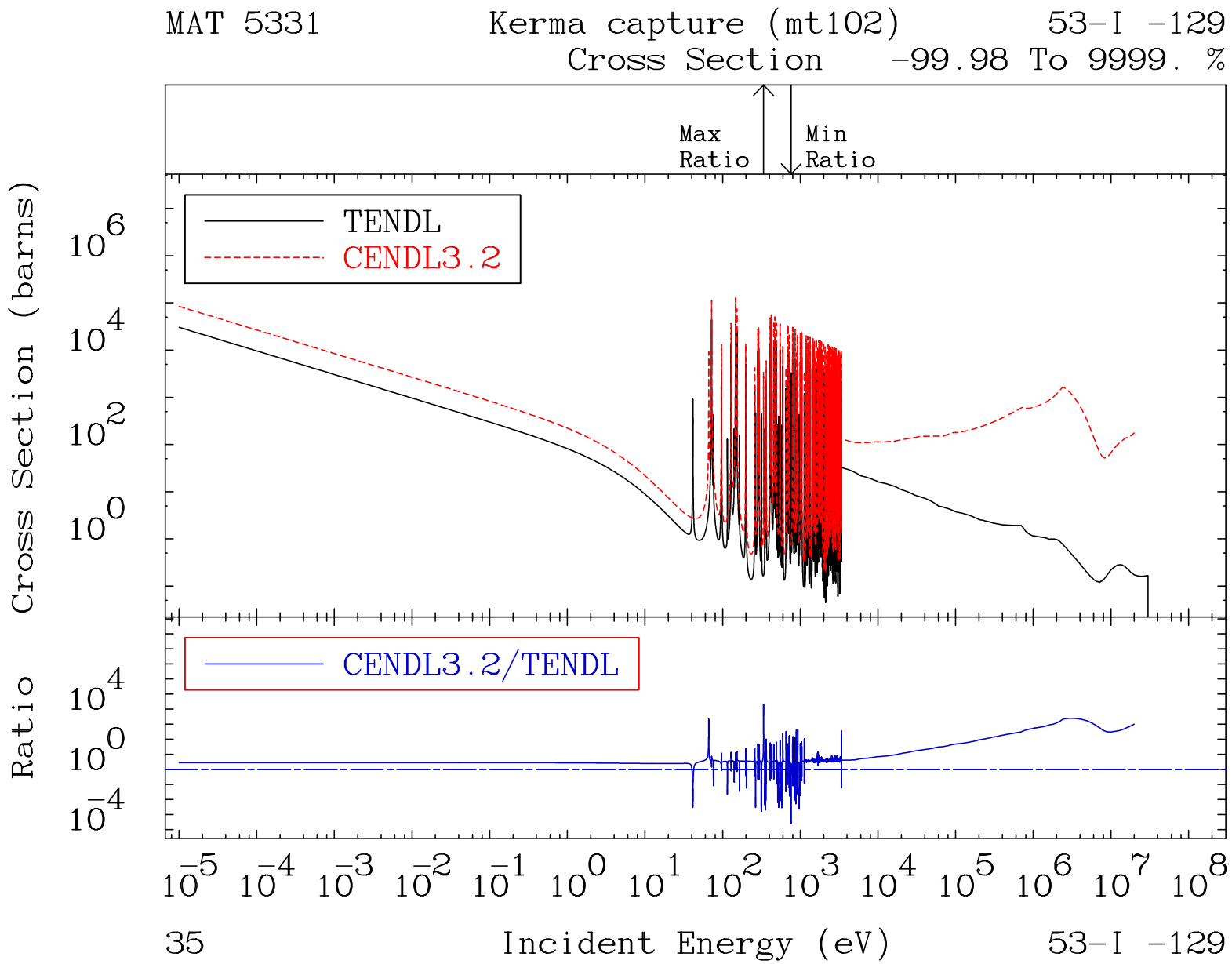

MAT 5331
Kerma total (eV-barns)
53-I -129
Cross Section -99.45 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
30
53-I -129

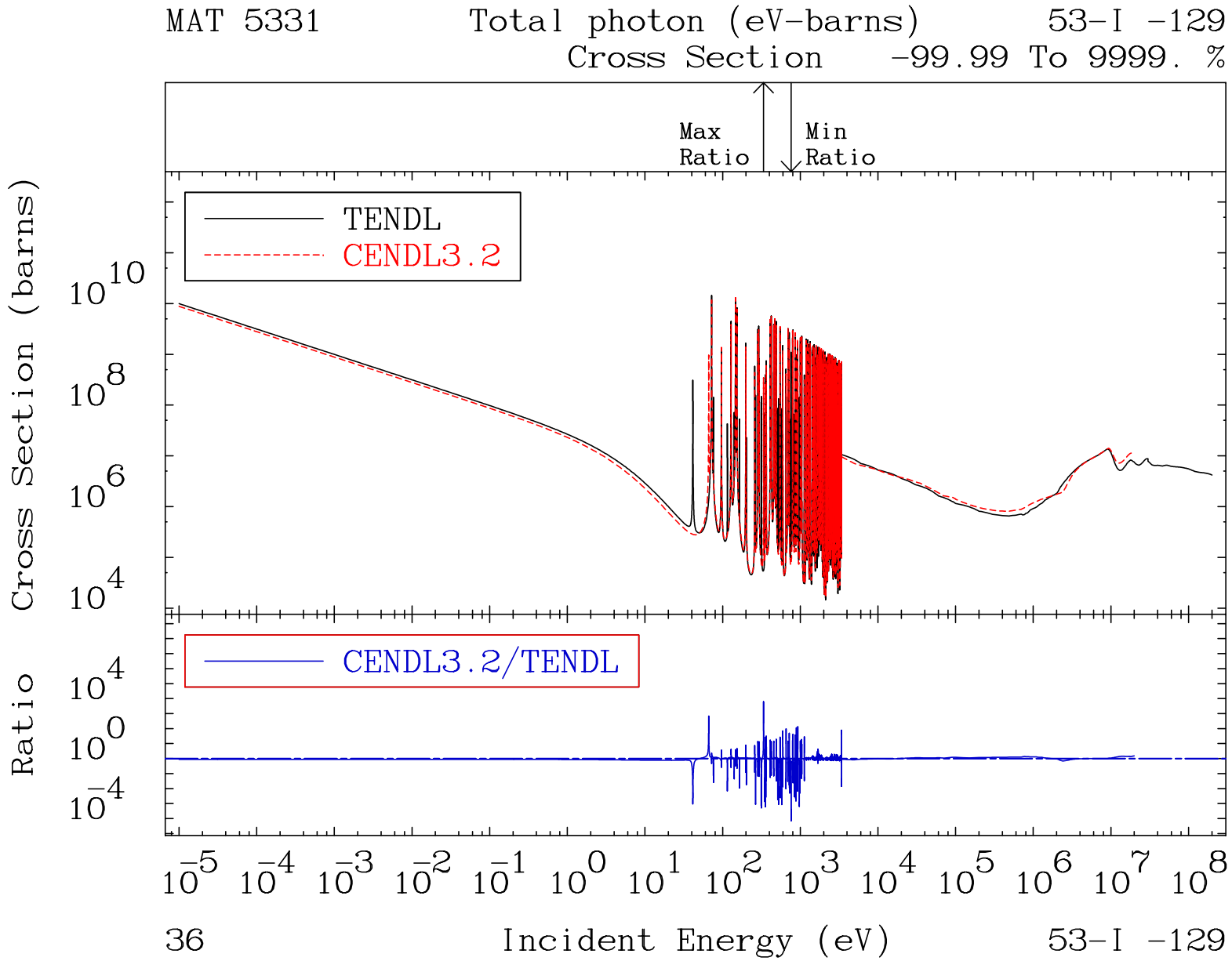

MAT 5331
Kerma elastic
Cross Section
53-I -129
-99.45 To 2850. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
31
53-I -129

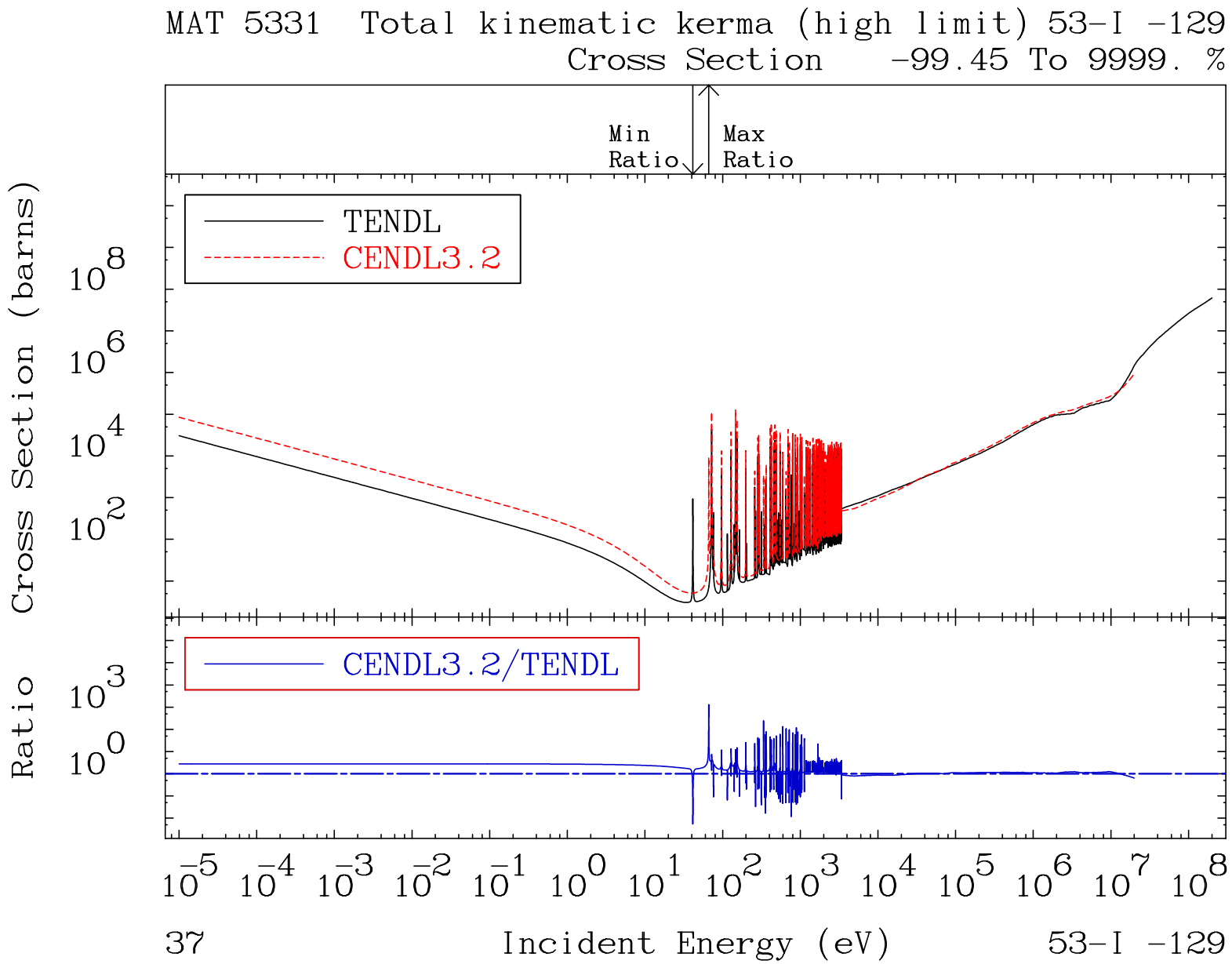

MAT 5331 Kerma non-elastic (all but mt2) 53-I -129
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
32
53-I -129

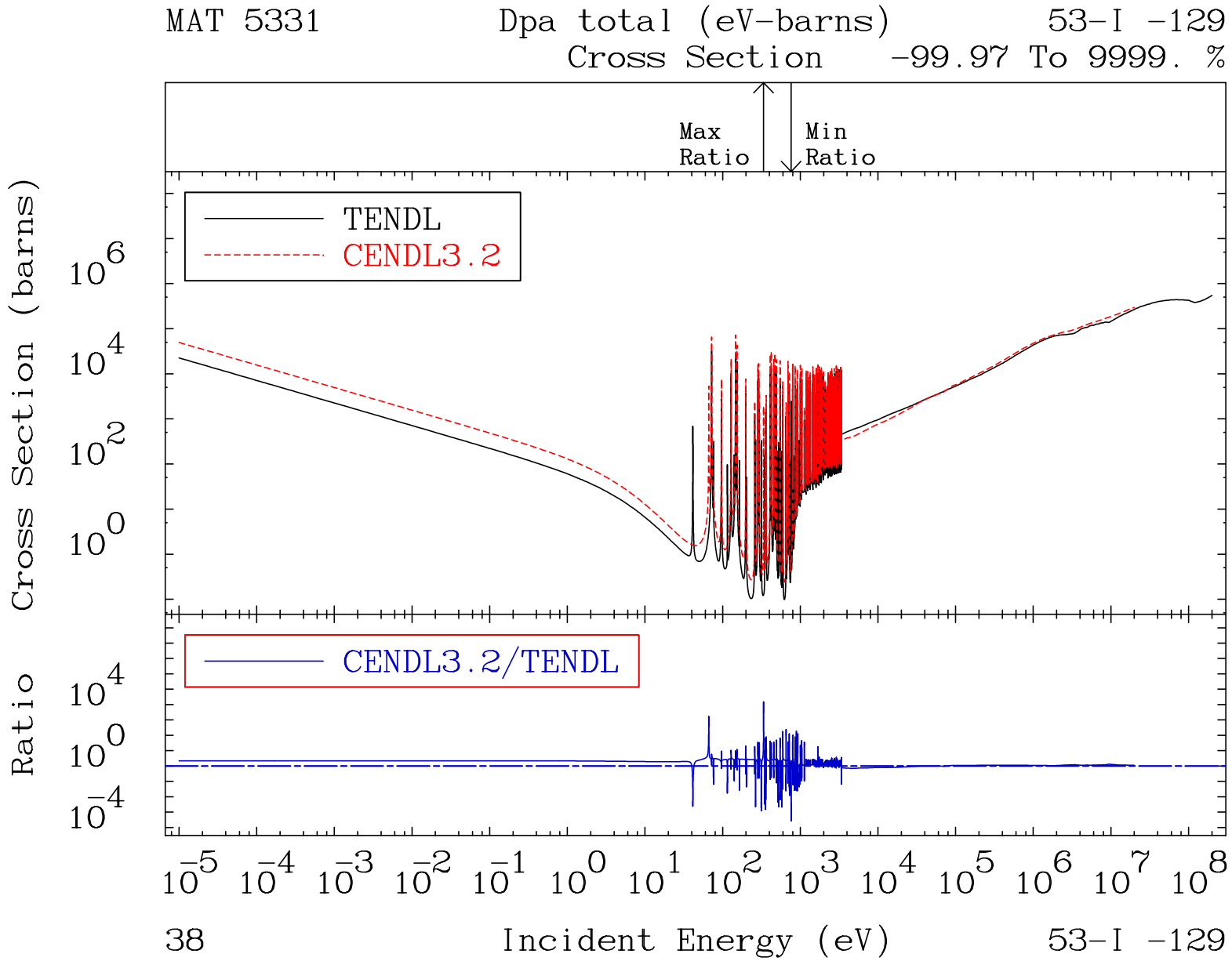

MAT 5331
Kerma inelastic (mt51-91)
53-I -129
Cross Section -100.0 To 6266. %
Min Ratio
Max Ratio
TENDL Threshold 28.010 keV
CENDL3.2 Threshold 29.100 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
53-I -129

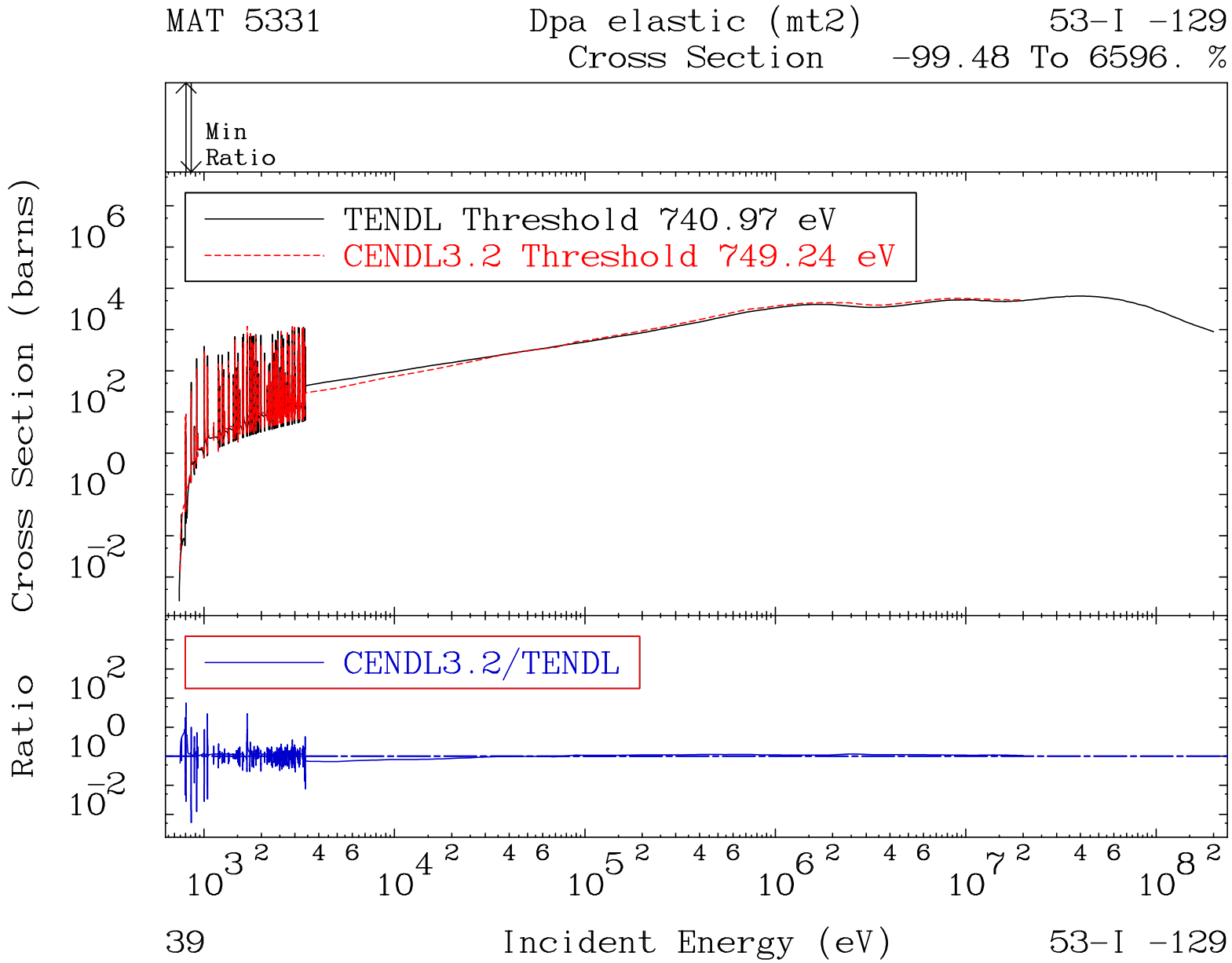

MAT 5331 Kerma fission (mt18 or mt19-20-21-38) 53-I -129
Cross Section -100.0 To 6266. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{6}
10^{0}
10^{-6}
10^{-12}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
34
Incident Energy (eV)
53-I -129

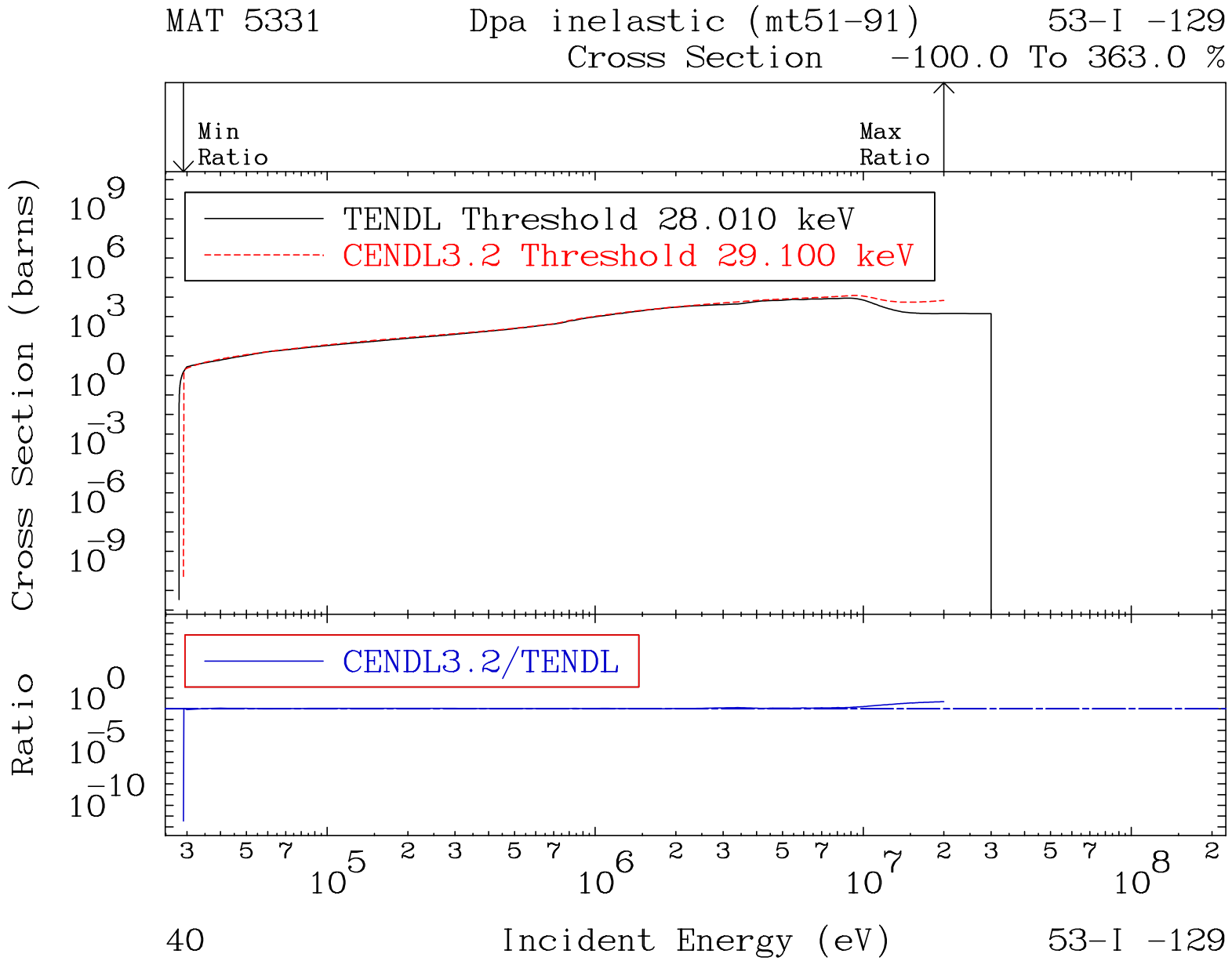

MAT 5331
Kerma capture (mt102)
53-I -129
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
35
53-I -129

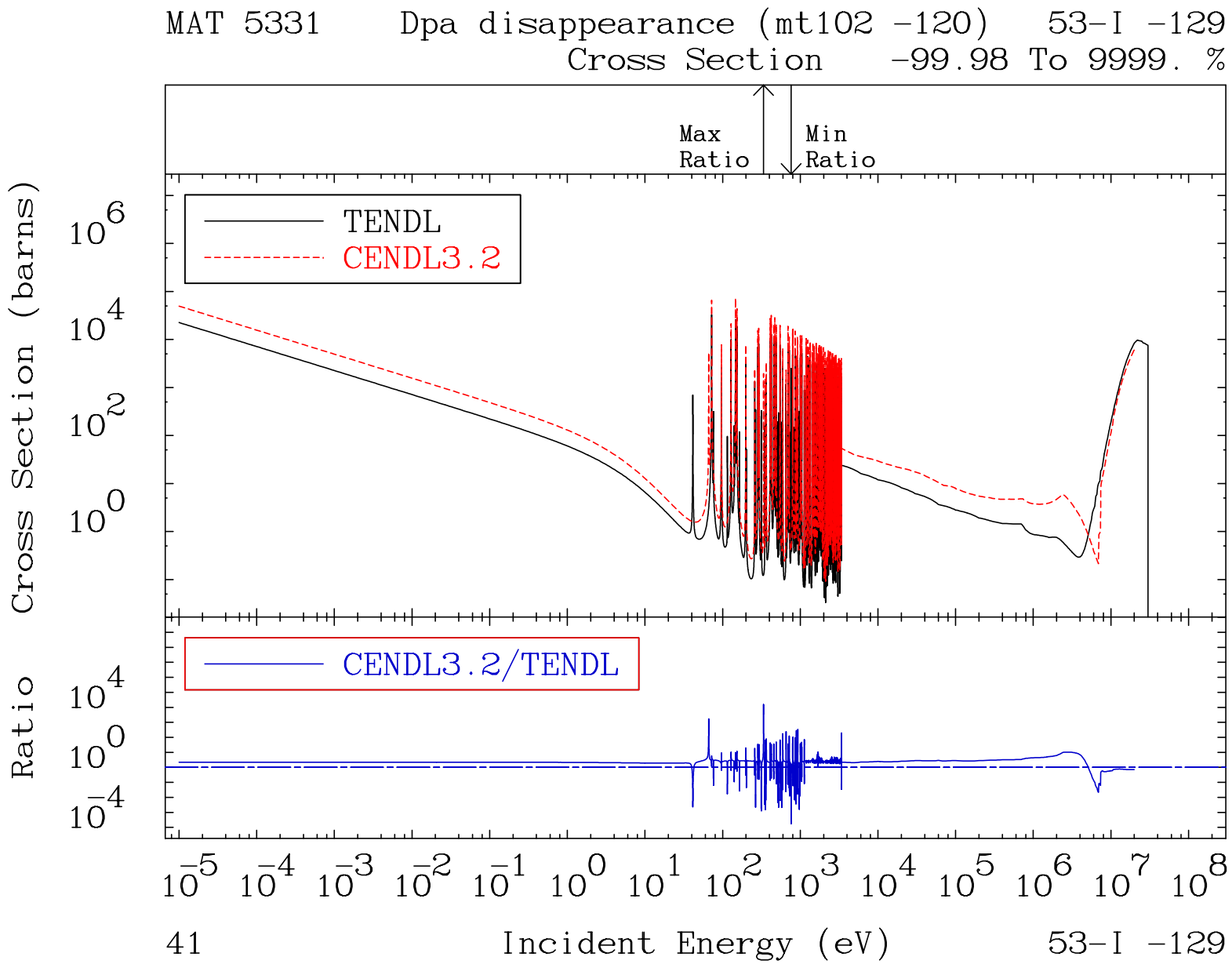

MAT 5331
Total photon (eV-barns)
53-I -129
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
CENDL3.2/TENDL
Ratio
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
36
Incident Energy (eV)
53-I -129

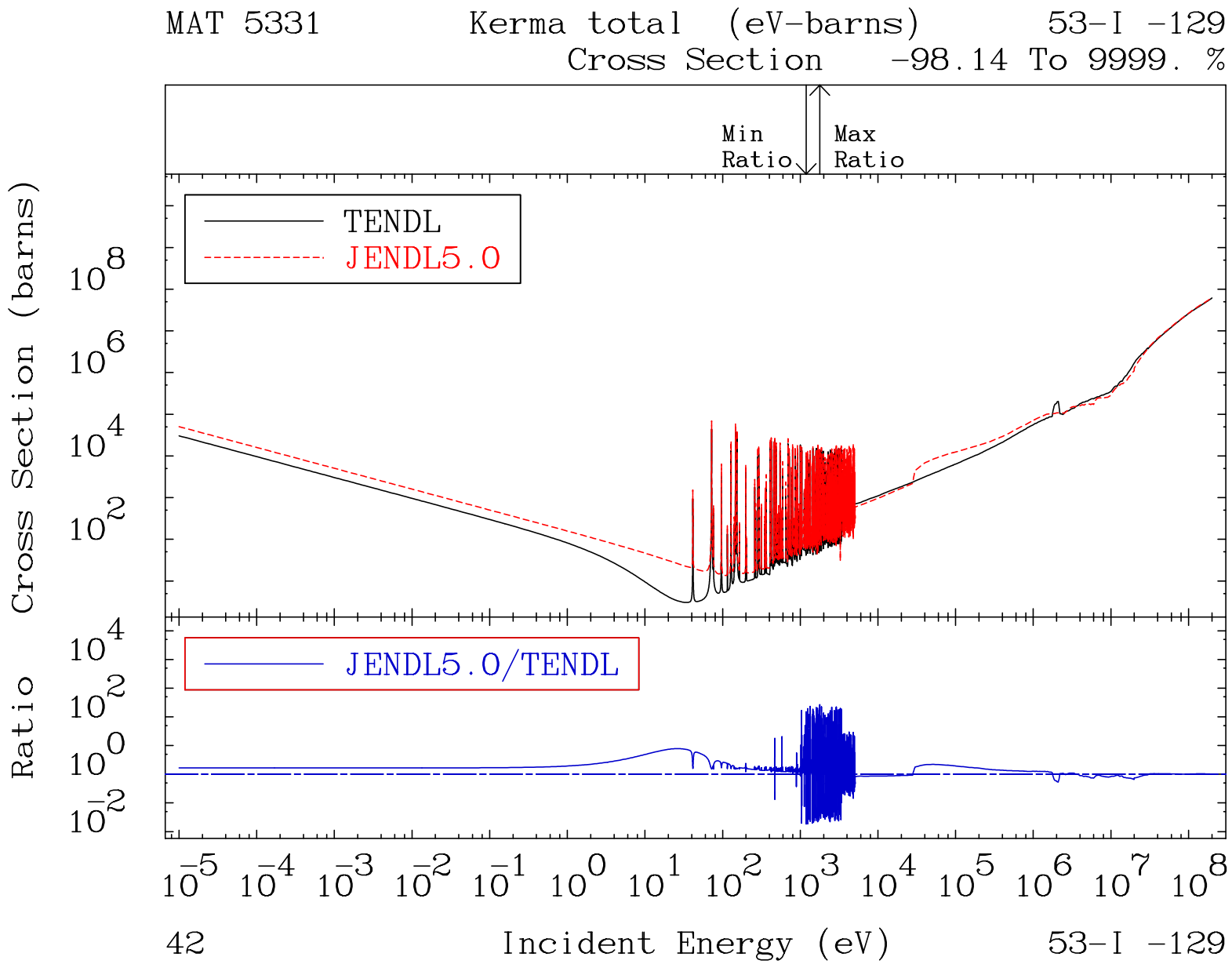

MAT 5331 Total kinematic kerma (high limit) 53-I -129
Cross Section -99.45 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^8
10^6
10^4
10^2
CENDL3.2/TENDL
Ratio
10^3
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
53-I -129

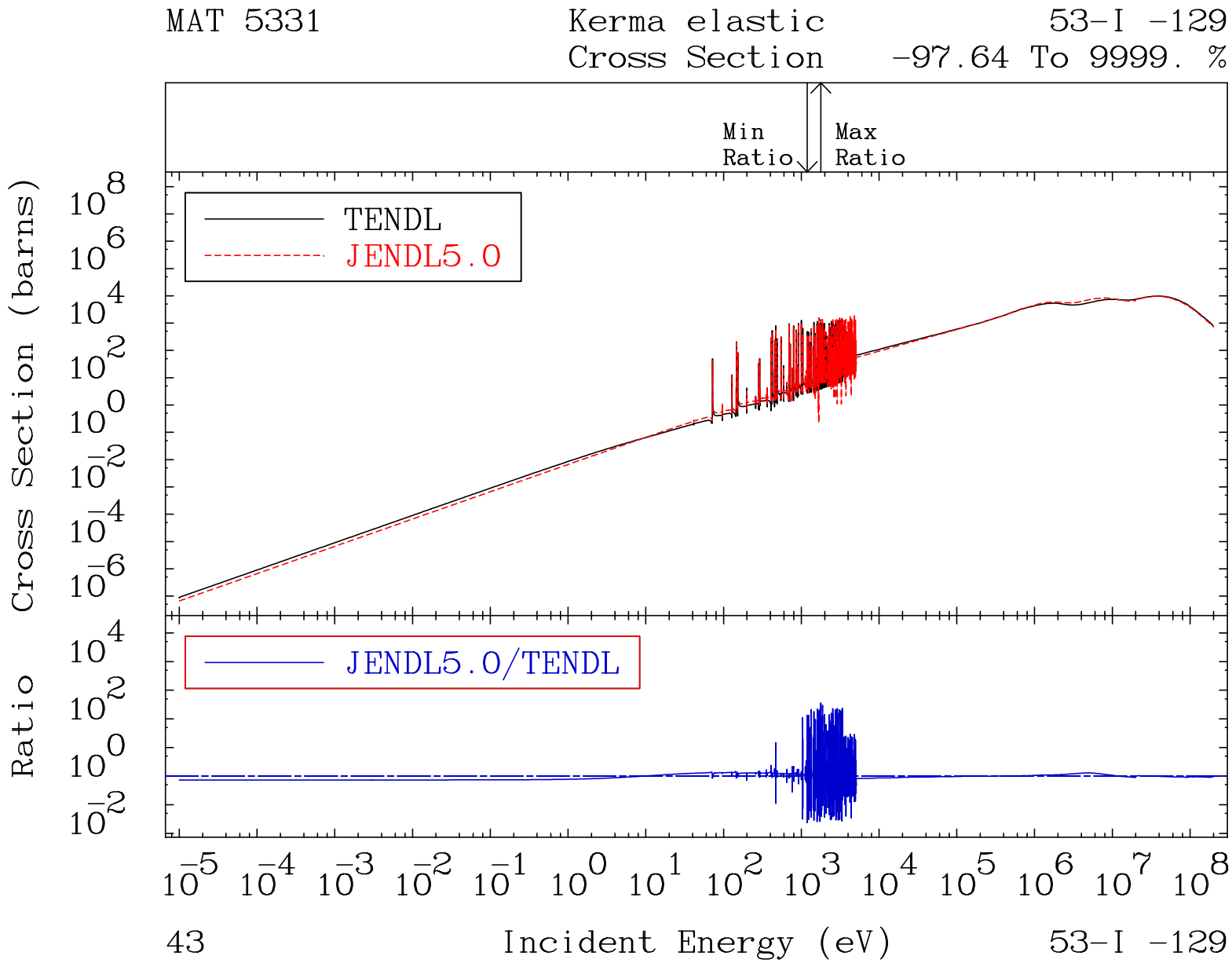

MAT 5331
Dpa total (eV-barns)
53-I -129
Cross Section -99.97 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^{6}
10^{4}
10^{2}
10^{0}
CENDL3.2/TENDL
Ratio
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
38
Incident Energy (eV)
53-I -129

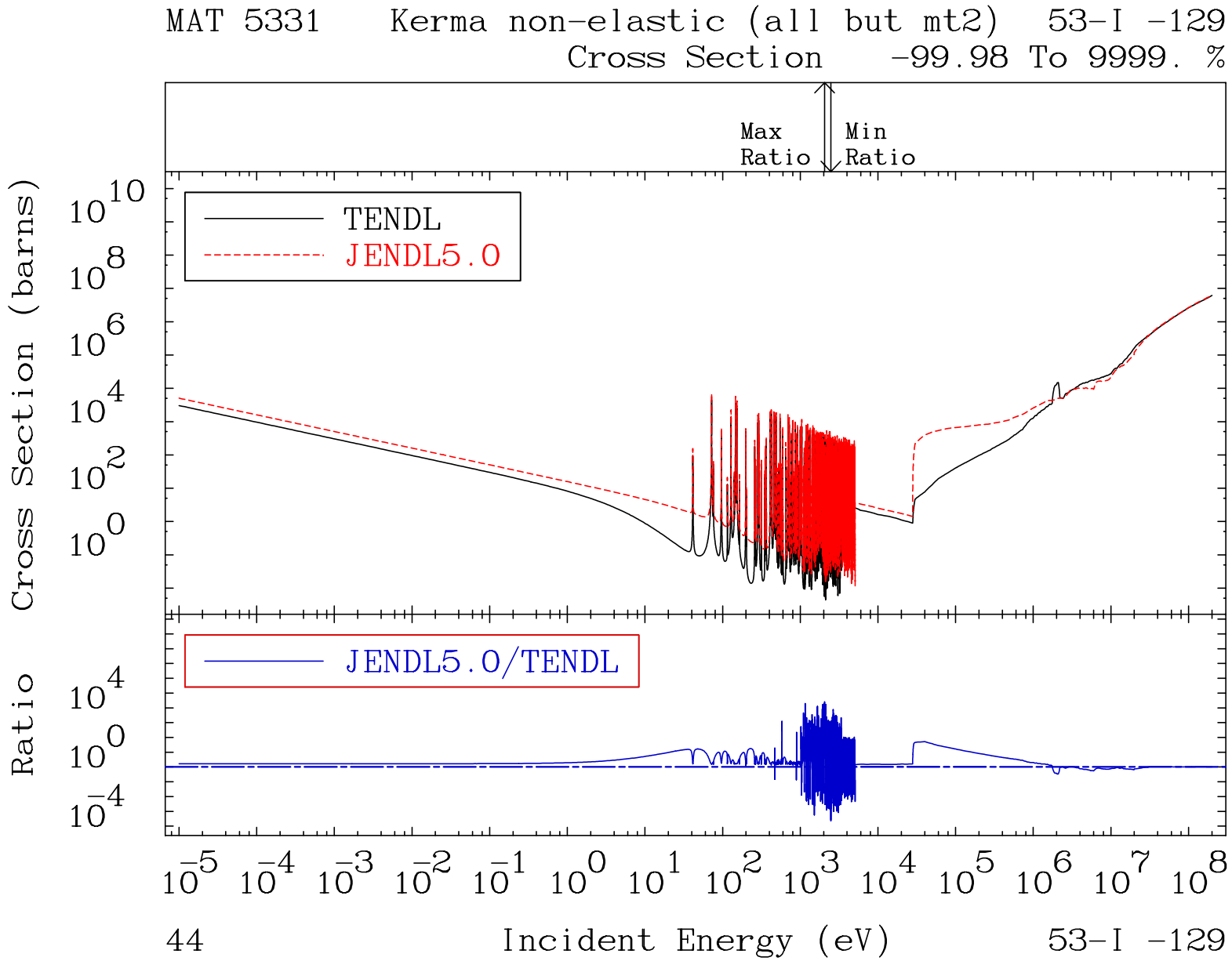

MAT 5331
Dpa elastic (mt2)
Cross Section
53-I -129
-99.48 To 6596. %
Min
Ratio
TENDL Threshold 740.97 eV
CENDL3.2 Threshold 749.24 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
53-I -129

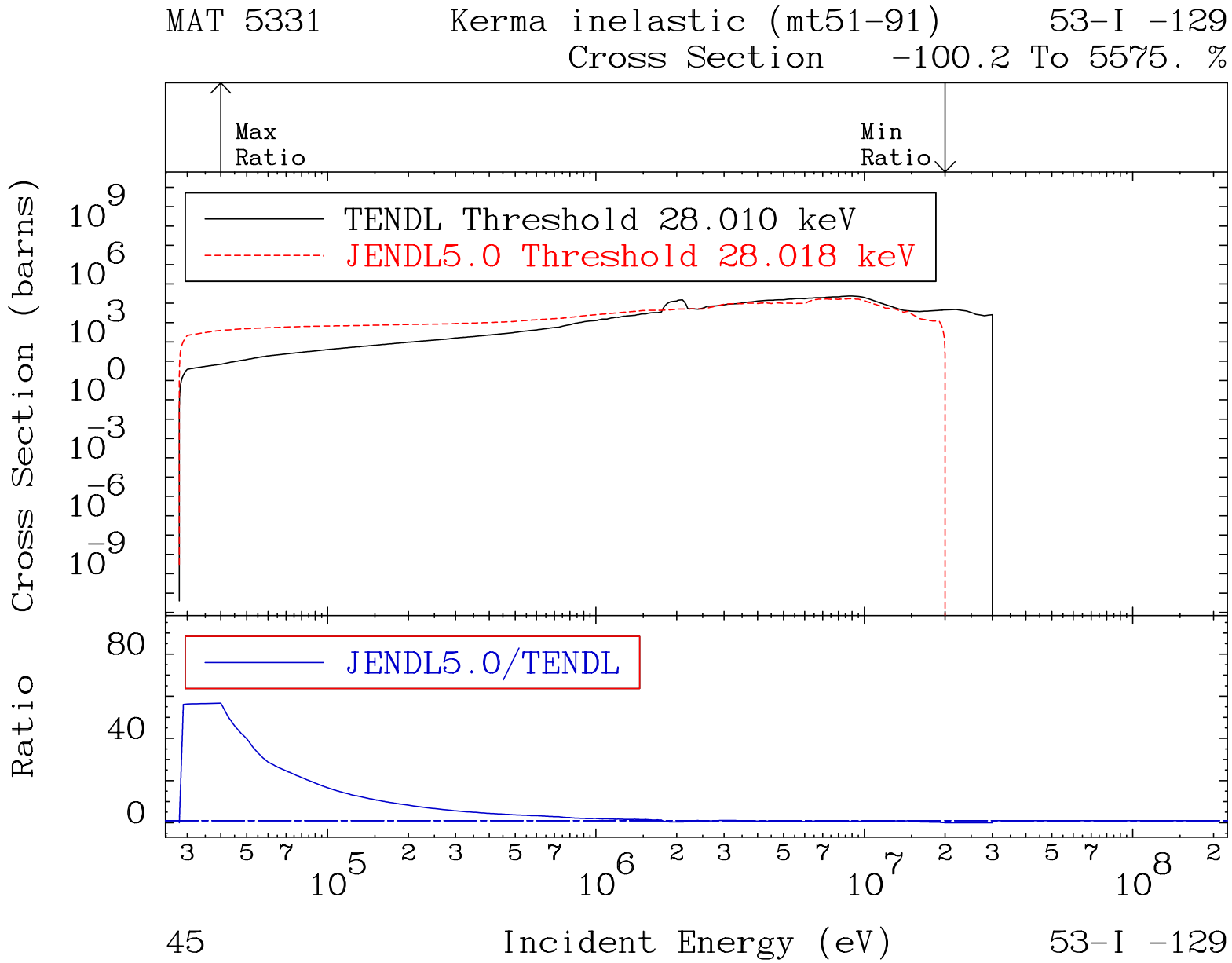

MAT 5331
Dpa inelastic (mt51-91)
53-I -129
Cross Section -100.0 To 363.0 %
Min Ratio
Max Ratio
TENDL Threshold 28.010 keV
CENDL3.2 Threshold 29.100 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
53-I -129

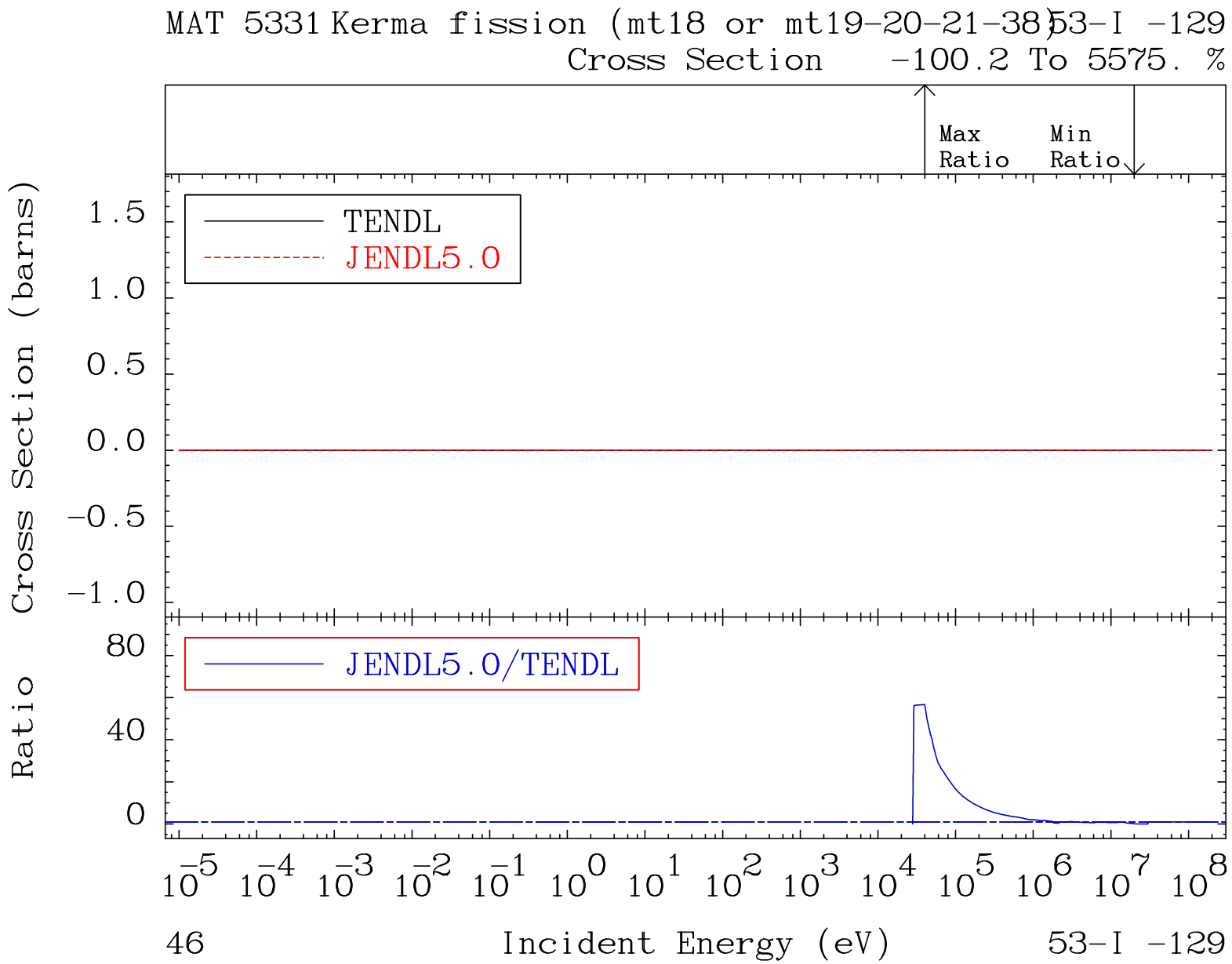

MAT 5331 Dpa disappearance (mt102 -120) 53-I -129
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
53-I -129

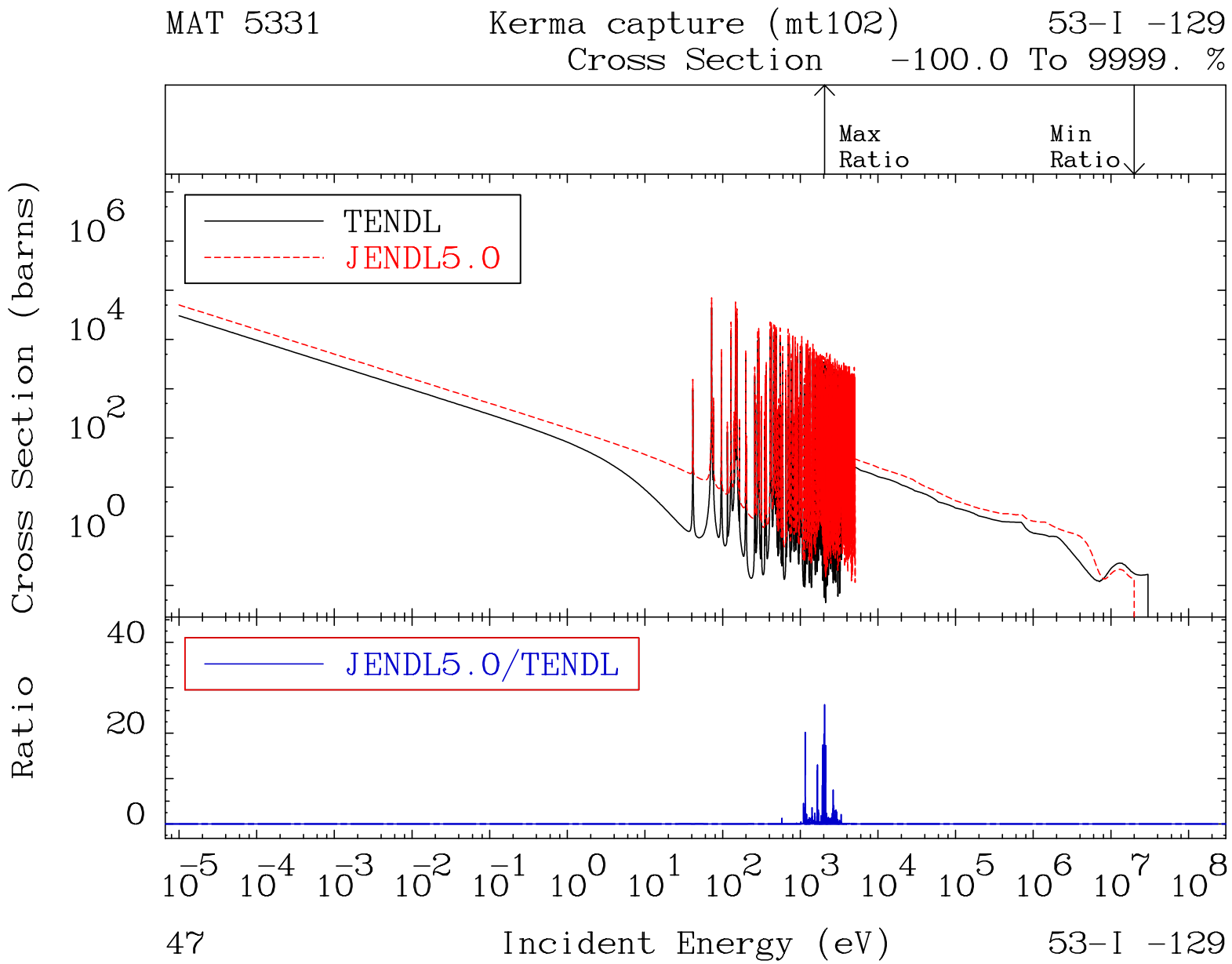

MAT 5331
Kerma total (eV-barns)
53-I -129
Cross Section -98.14 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
53-I -129

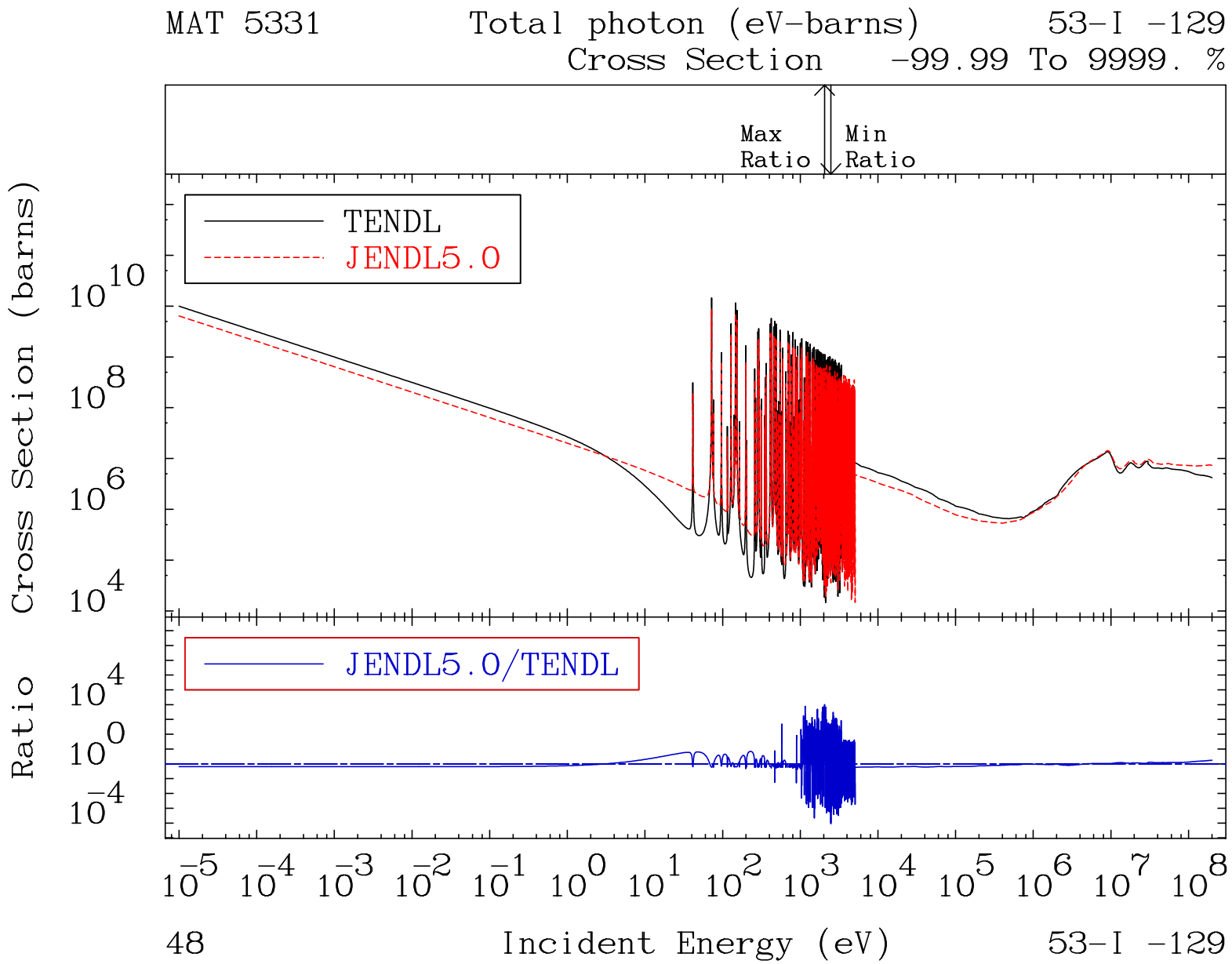

MAT 5331
Kerma elastic
Cross Section
53-I -129
-97.64 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
53-I -129

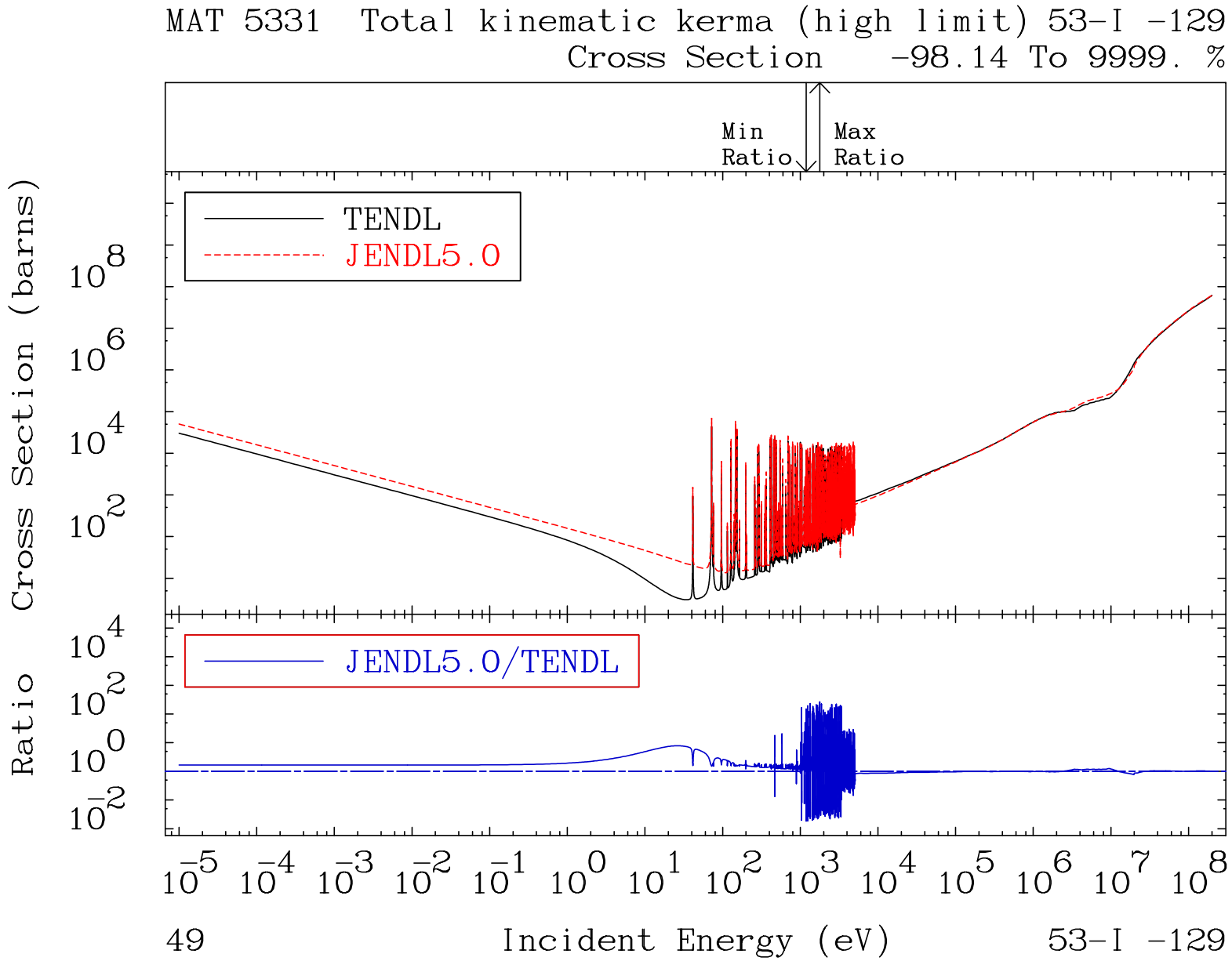

MAT 5331 Kerma non-elastic (all but mt2) 53-I -129
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
53-I -129

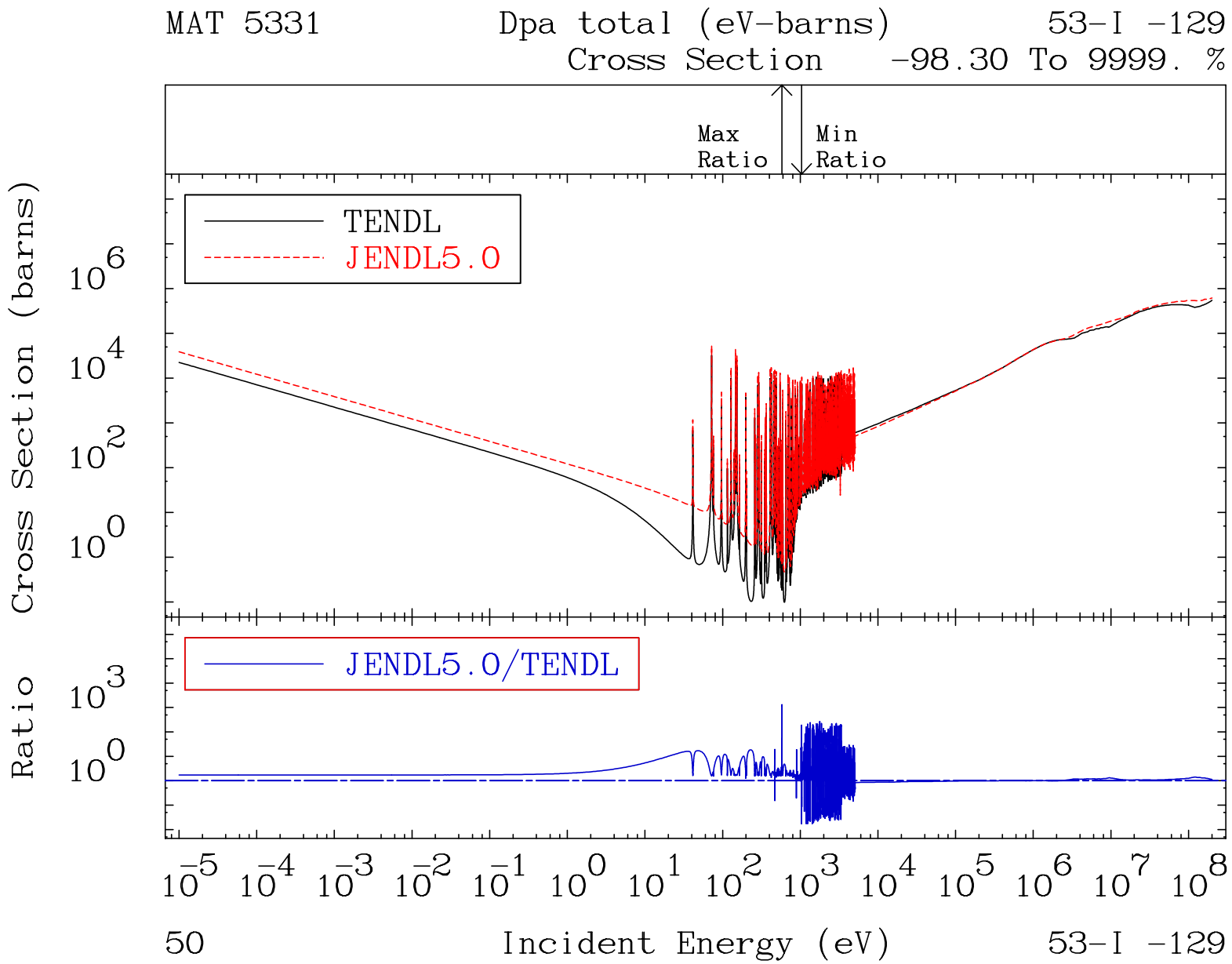

MAT 5331
Kerma inelastic (mt51-91)
53-I -129
Cross Section -100.2 To 5575. %
Max Ratio
Min Ratio
TENDL Threshold 28.010 keV
JENDL5.0 Threshold 28.018 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
53-I -129

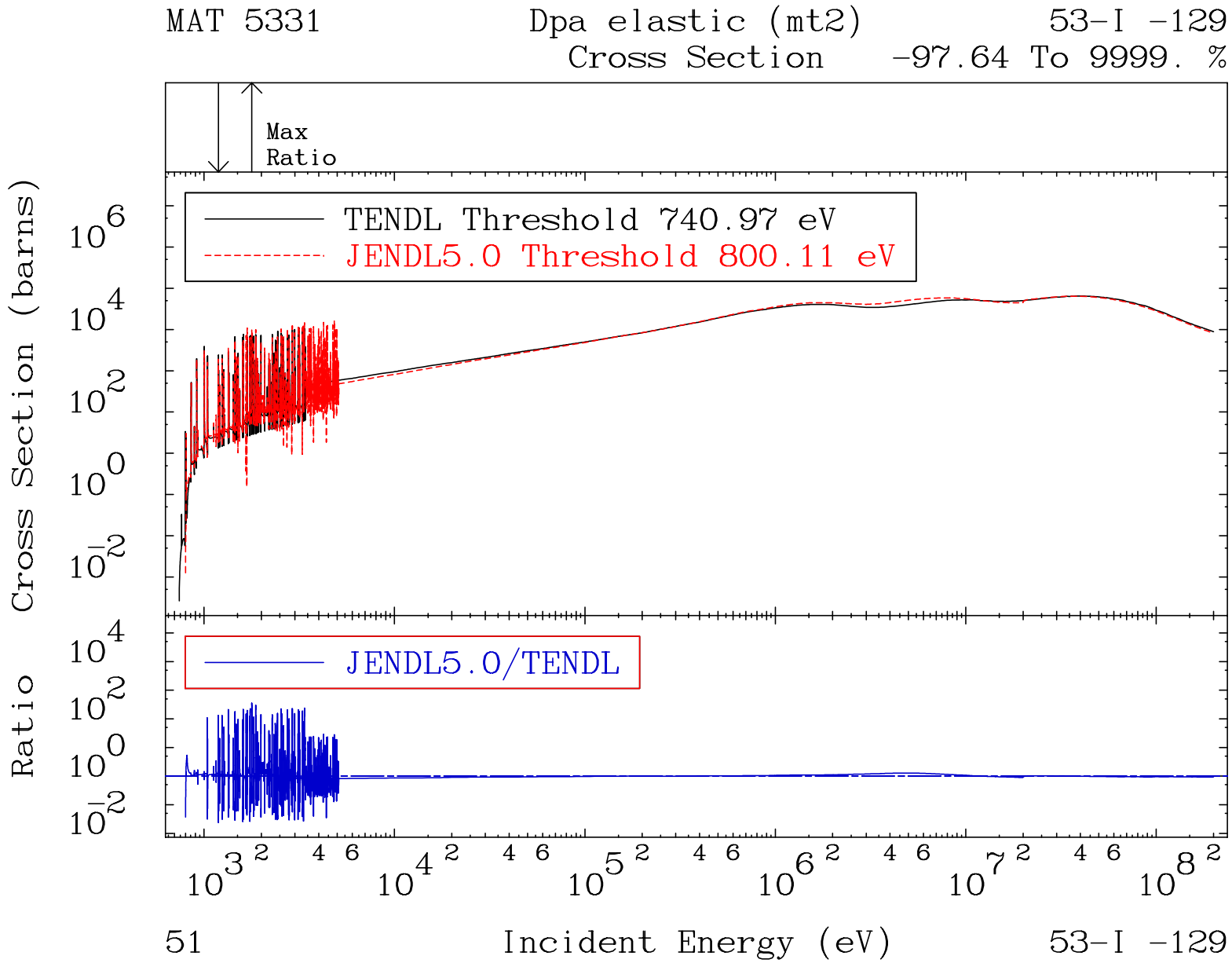

MAT 5331 Kerma fission (mt18 or mt19-20-21-38) 53-I -129
Cross Section -100.2 To 5575. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
80
40
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
Incident Energy (eV)
46
53-I -129

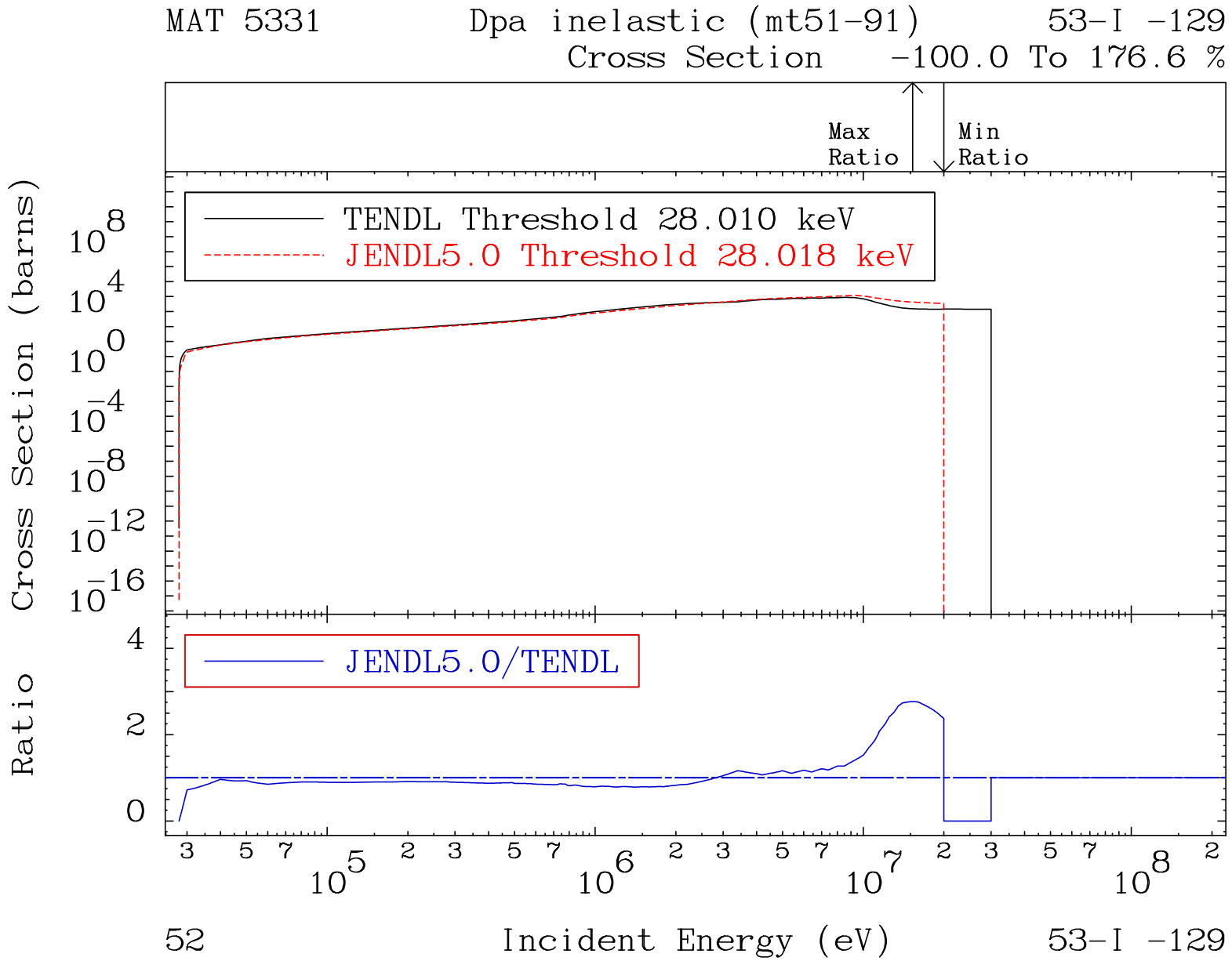

MAT 5331
Kerma capture (mt102)
53-I -129
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
JENDL5.0/TENDL
Ratio
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
47
Incident Energy (eV)
53-I -129

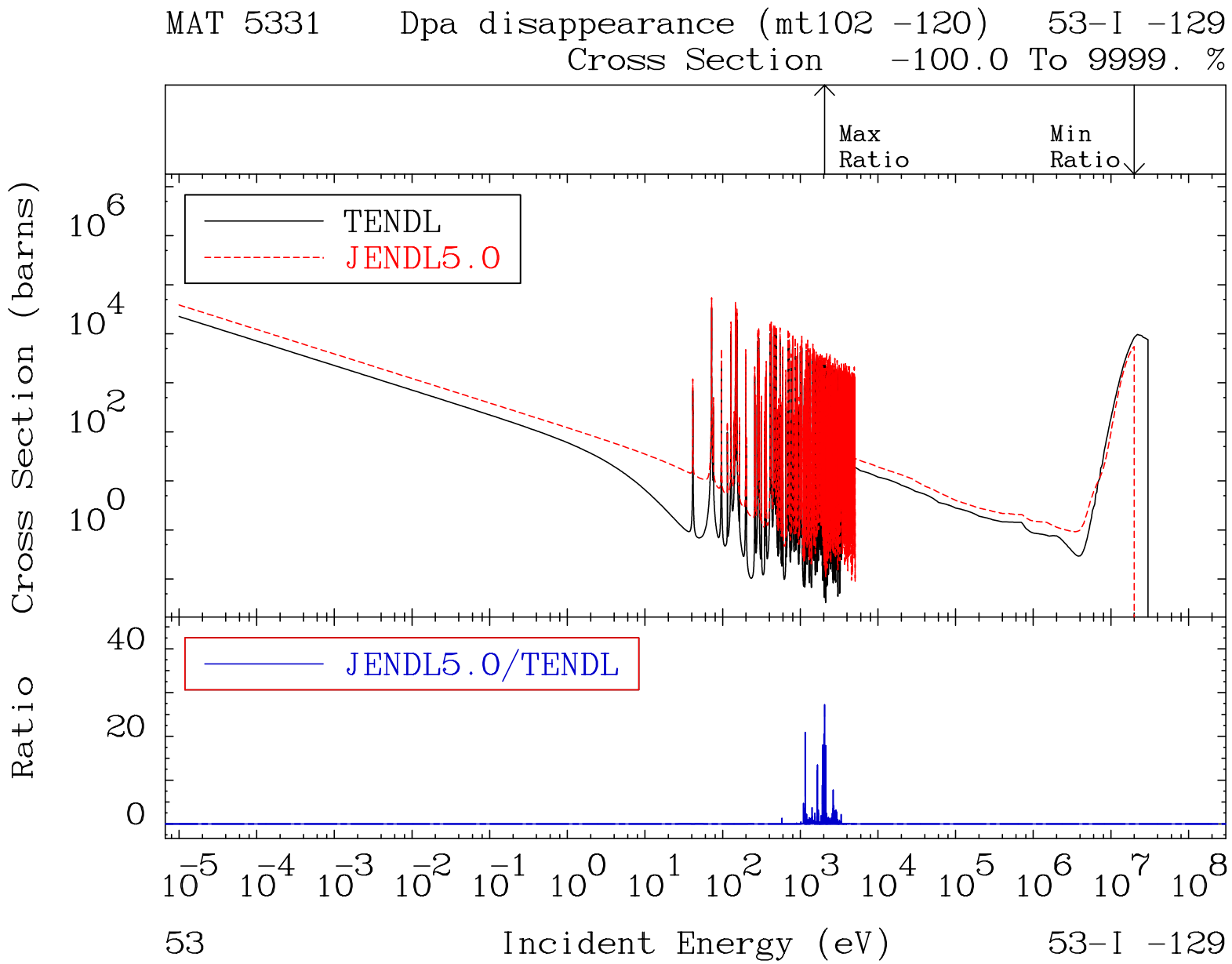

MAT 5331
Total photon (eV-barns)
53-I -129
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
JENDL5.0/TENDL
Ratio
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
48
Incident Energy (eV)
53-I -129

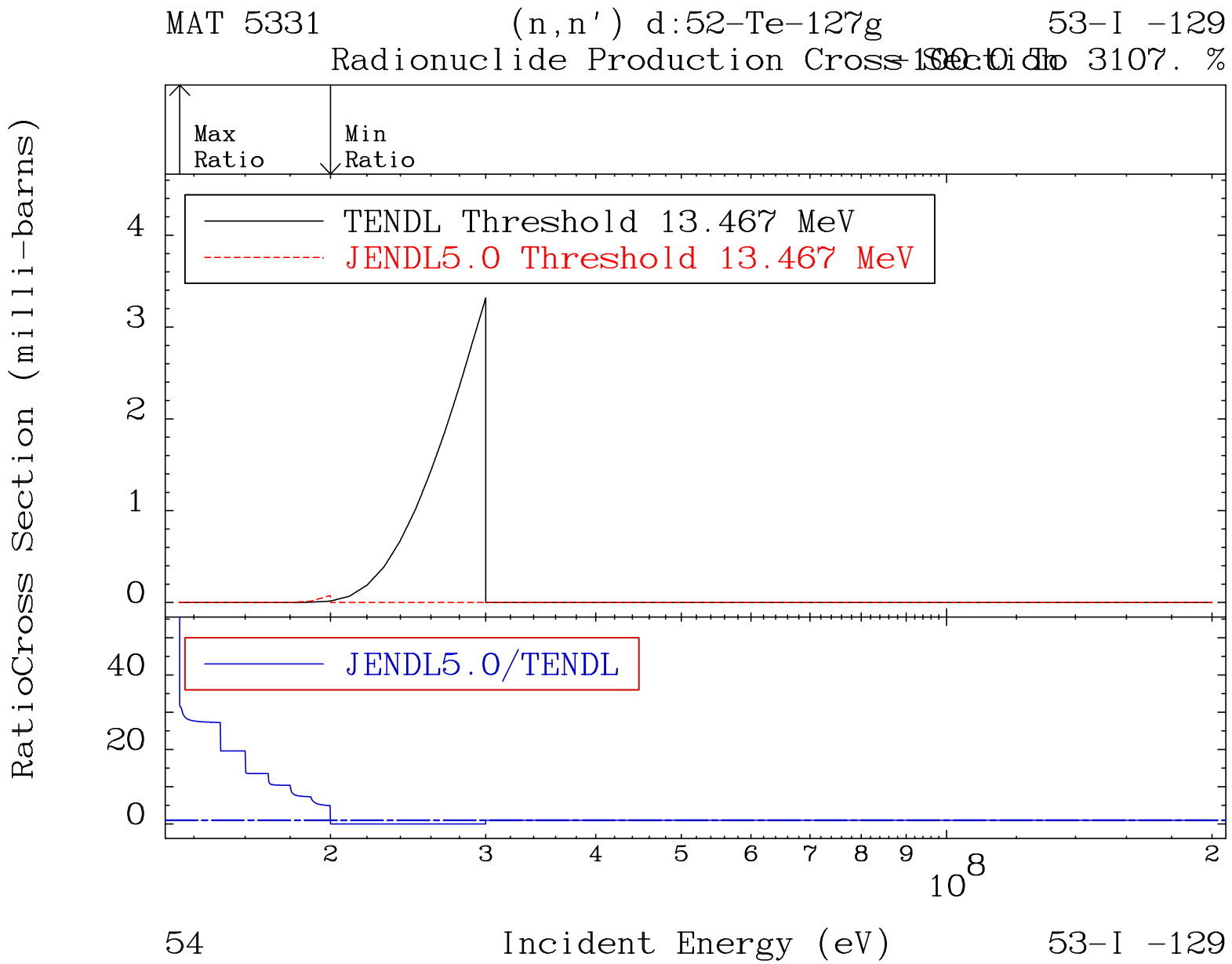

MAT 5331 Total kinematic kerma (high limit) 53-I -129
Cross Section -98.14 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
53-I -129

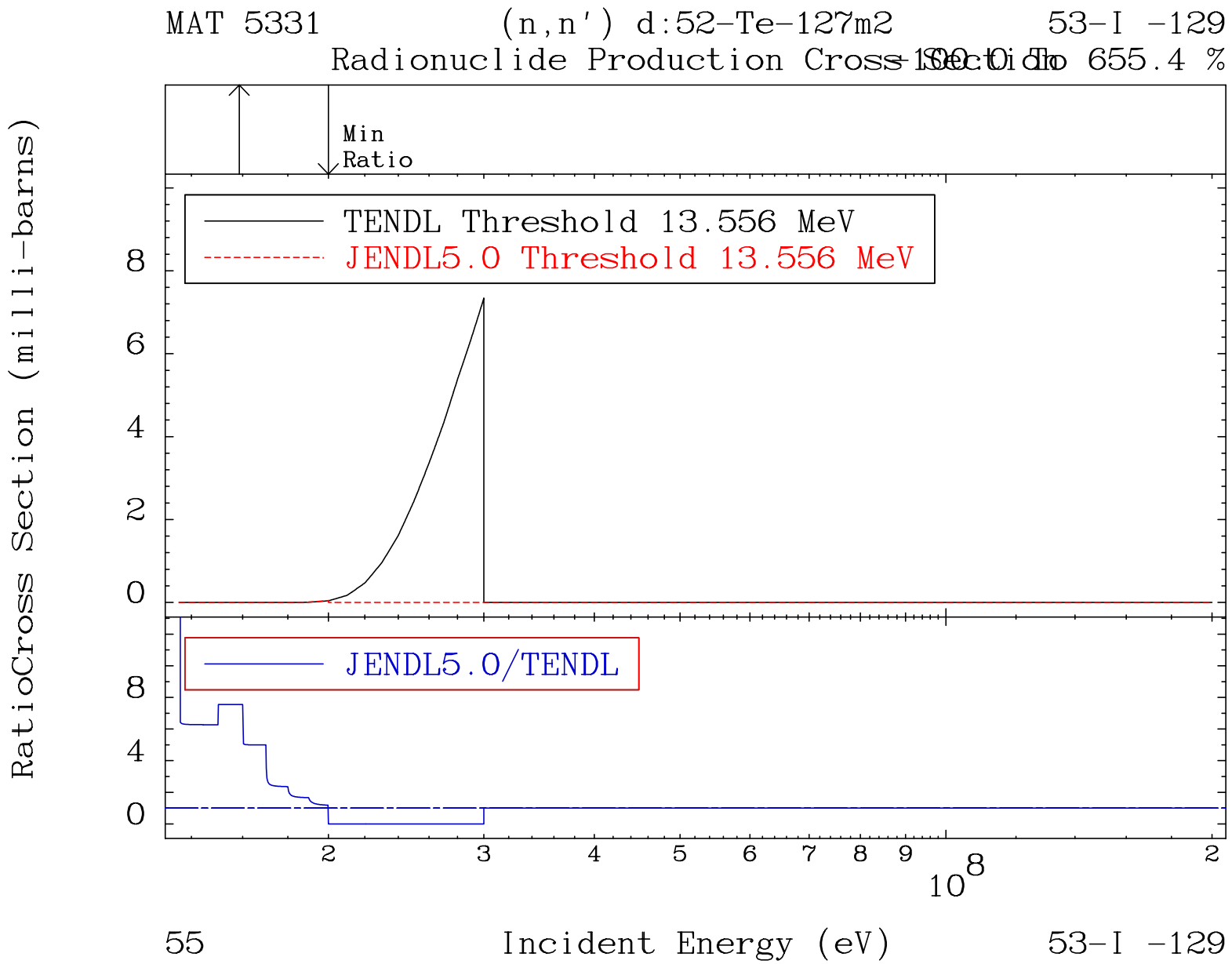

MAT 5331
Dpa total (eV-barns)
53-I -129
Cross Section -98.30 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
53-I -129

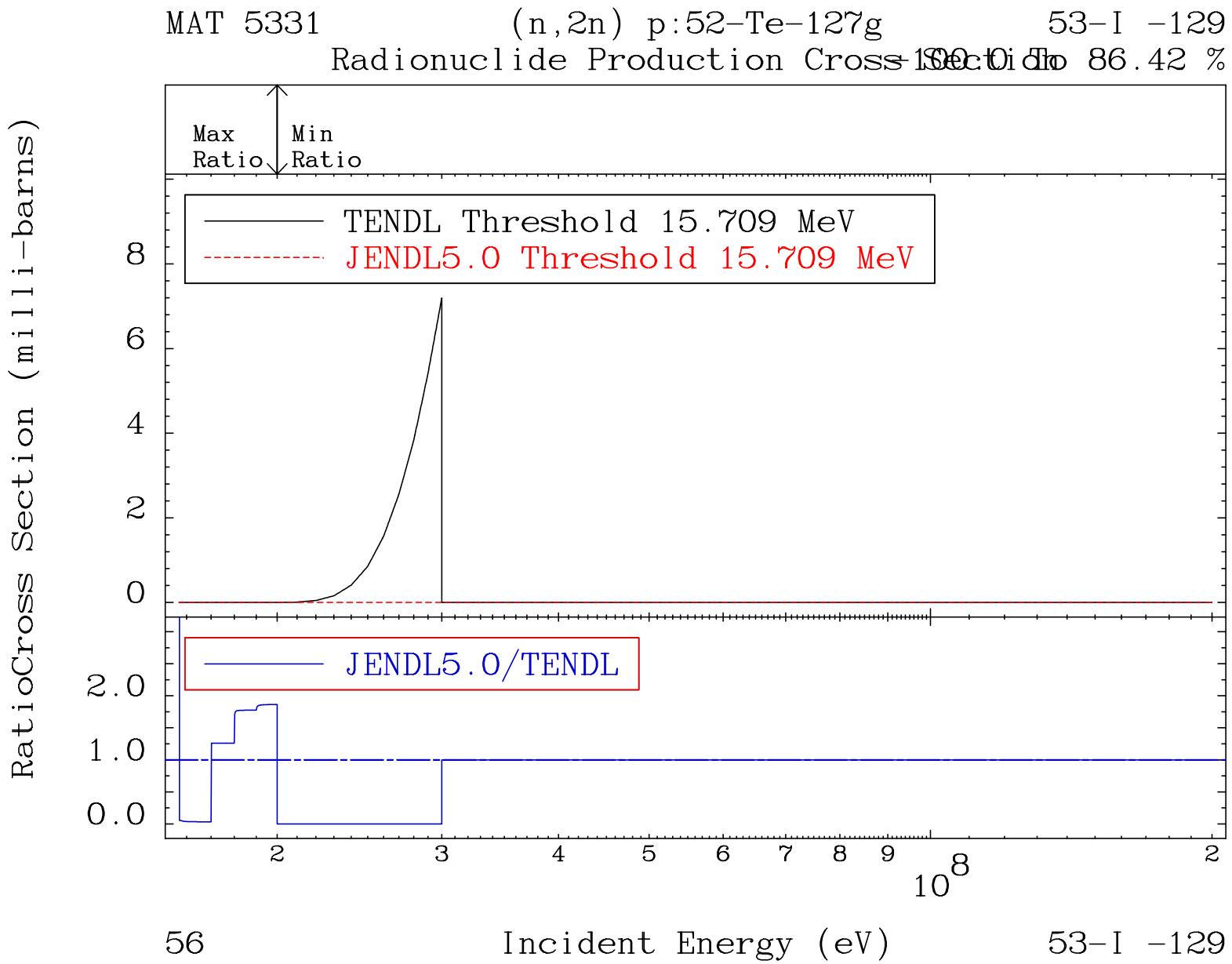

MAT 5331
Dpa elastic (mt2)
Cross Section
53-I -129
-97.64 To 9999. %
Max
Ratio
TENDL Threshold 740.97 eV
JENDL5.0 Threshold 800.11 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
53-I -129

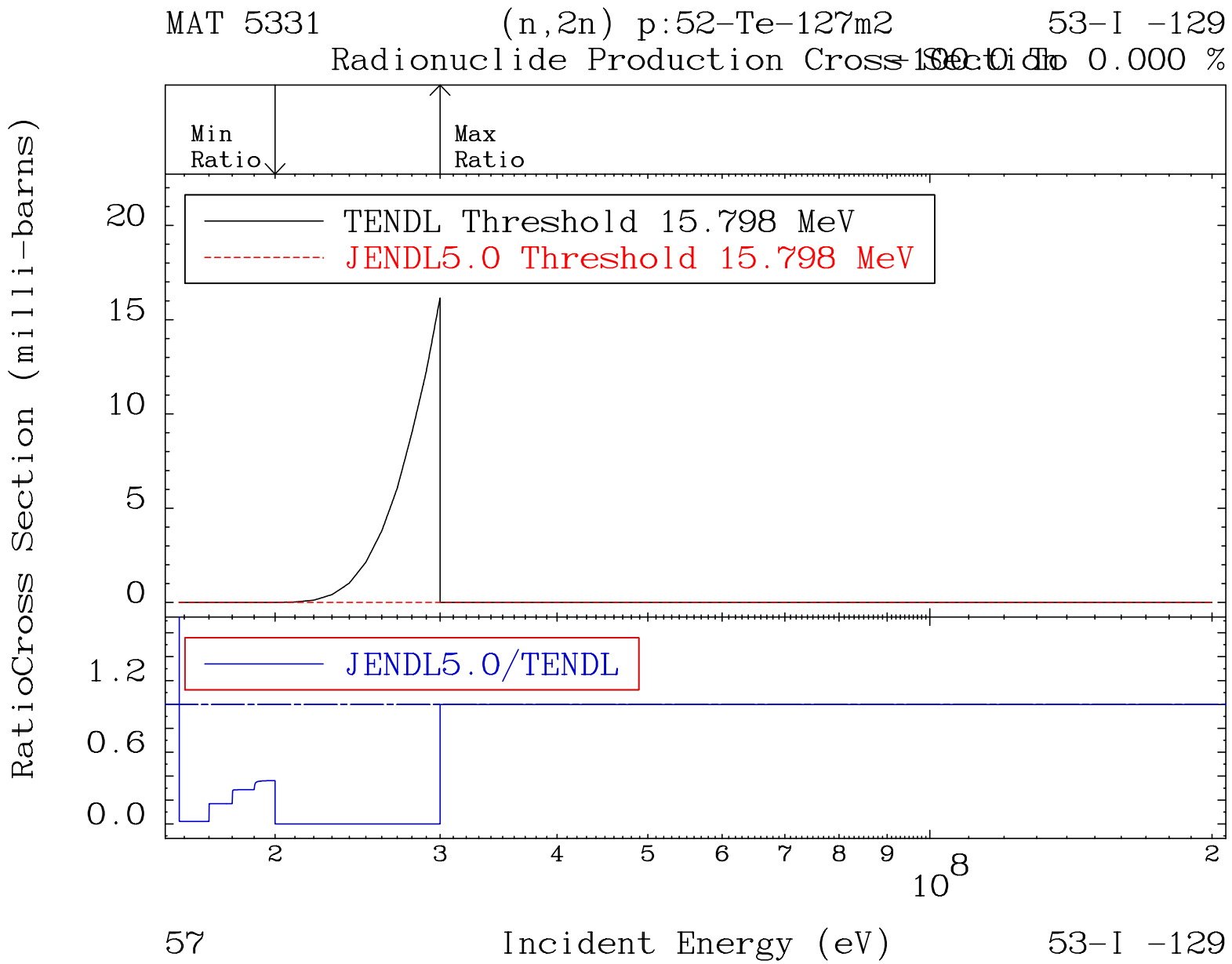

MAT 5331
Dpa inelastic (mt51-91)
53-I -129
Cross Section -100.0 To 176.6 %
Max Ratio
Min Ratio
TENDL Threshold 28.010 keV
JENDL5.0 Threshold 28.018 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
53-I -129

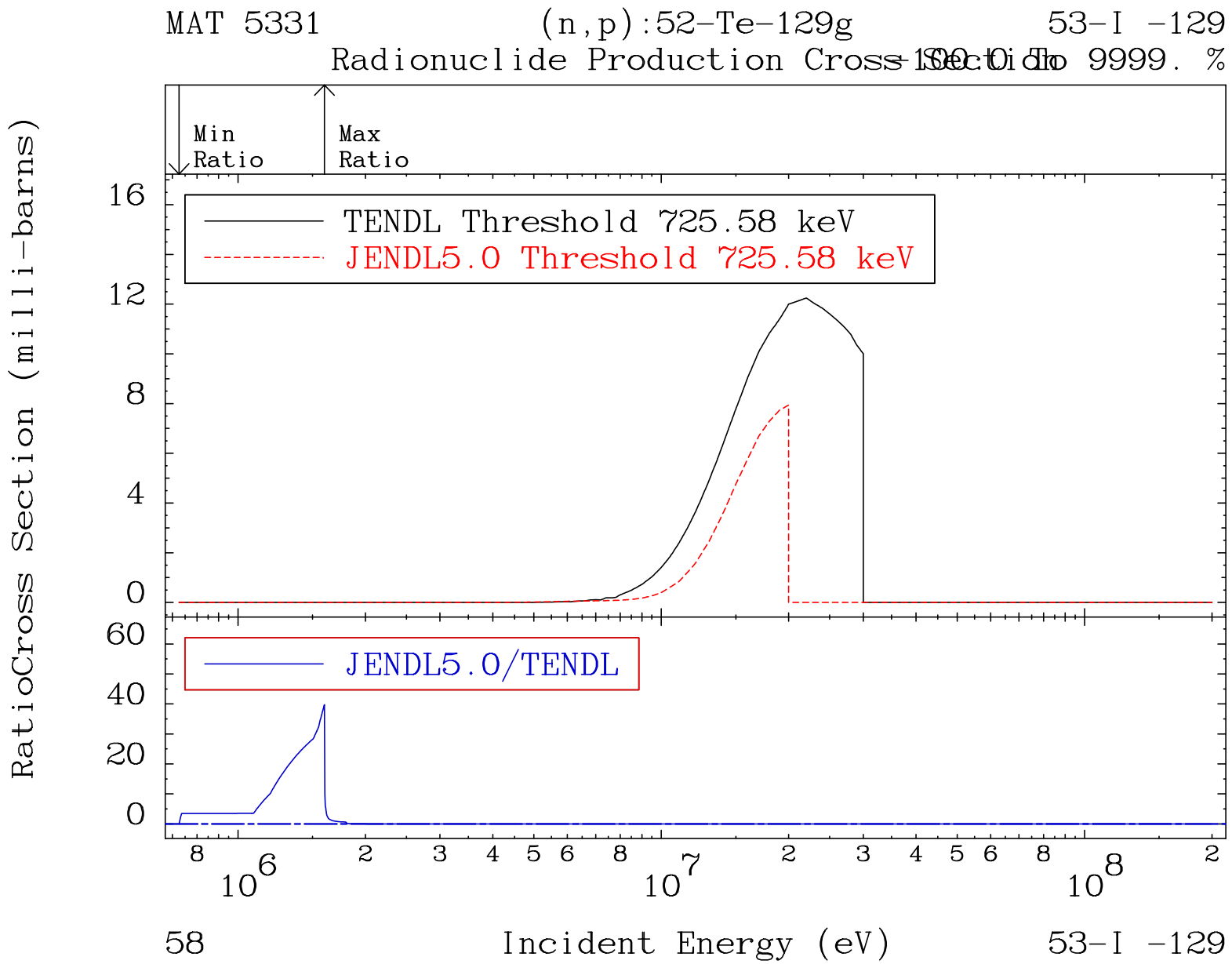

MAT 5331 Dpa disappearance (mt102 -120) 53-I -129
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
53-I -129

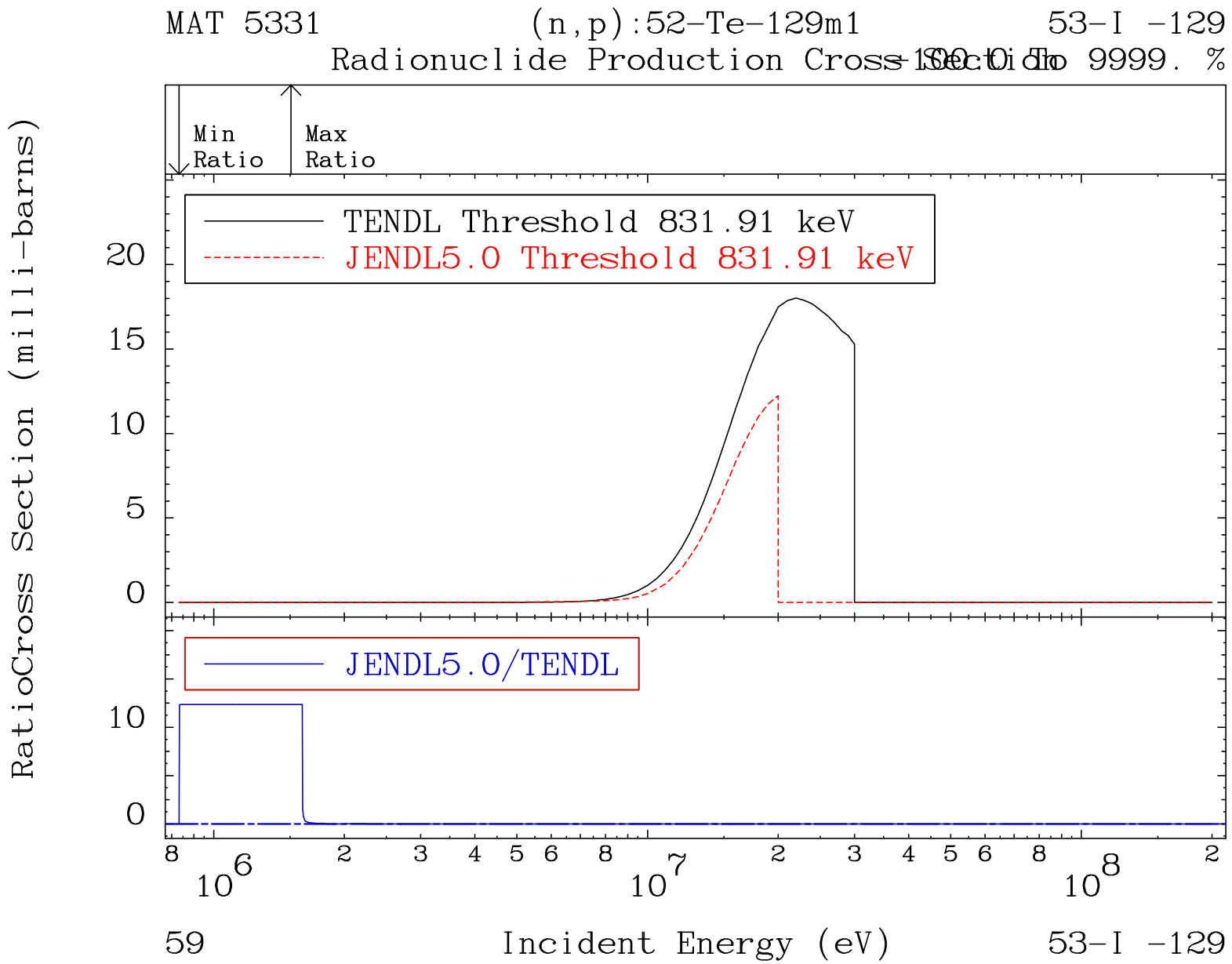

MAT 5331
(n,n') d:52-Te-127g
53-I -129
Radionuclide Production Cross Section To 3107. %
Max Ratio
Min Ratio
TENDL Threshold 13.467 MeV
JENDL5.0 Threshold 13.467 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
53-I -129

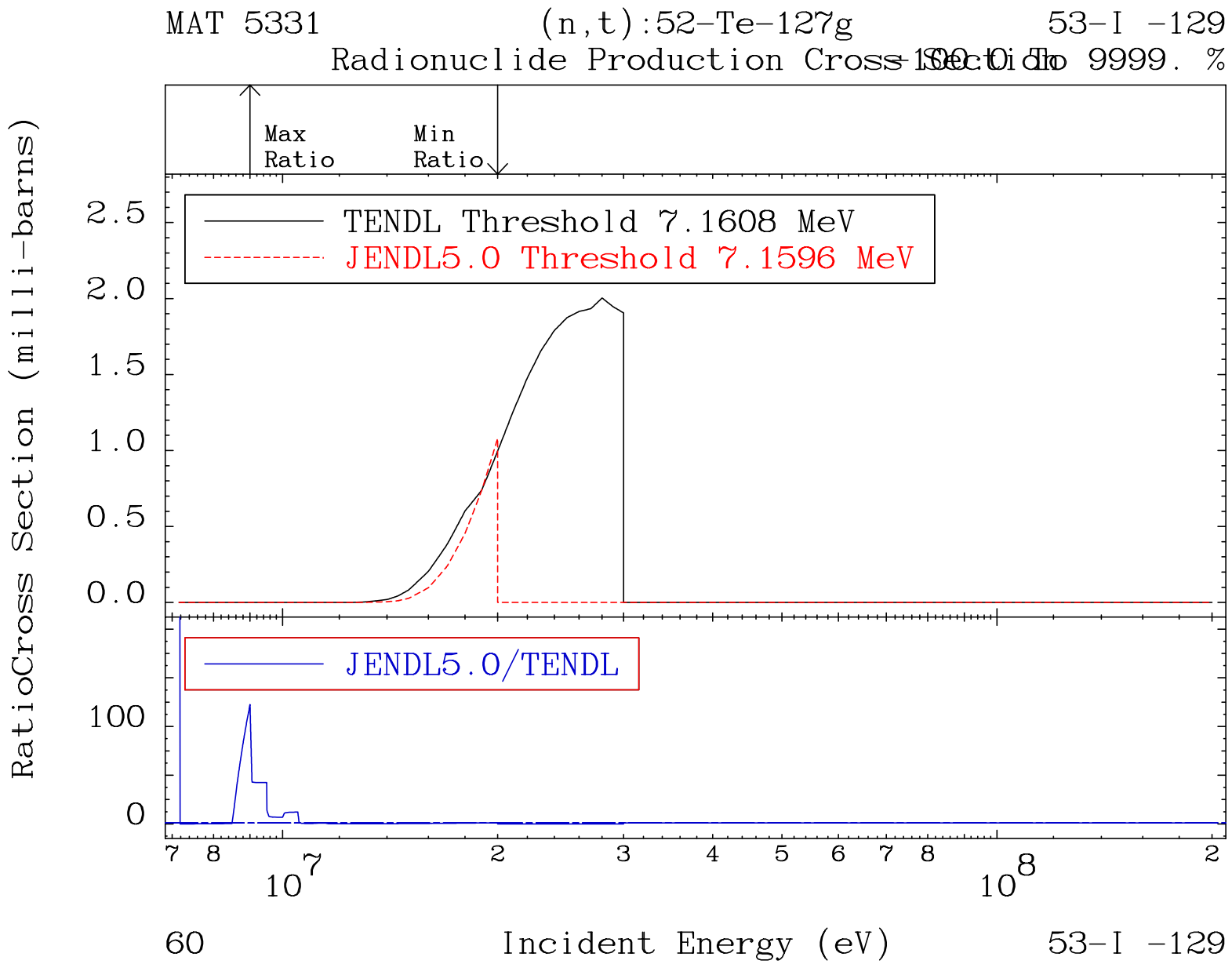

MAT 5331
(n,n') d:52-Te-127m2
53-I -129
Radionuclide Production Cross Section To 655.4 %
Min
Ratio
TENDL Threshold 13.556 MeV
JENDL5.0 Threshold 13.556 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
0
4
8
2
3
4
5
6
7
8
9
2
10^8
55
Incident Energy (eV)
53-I -129

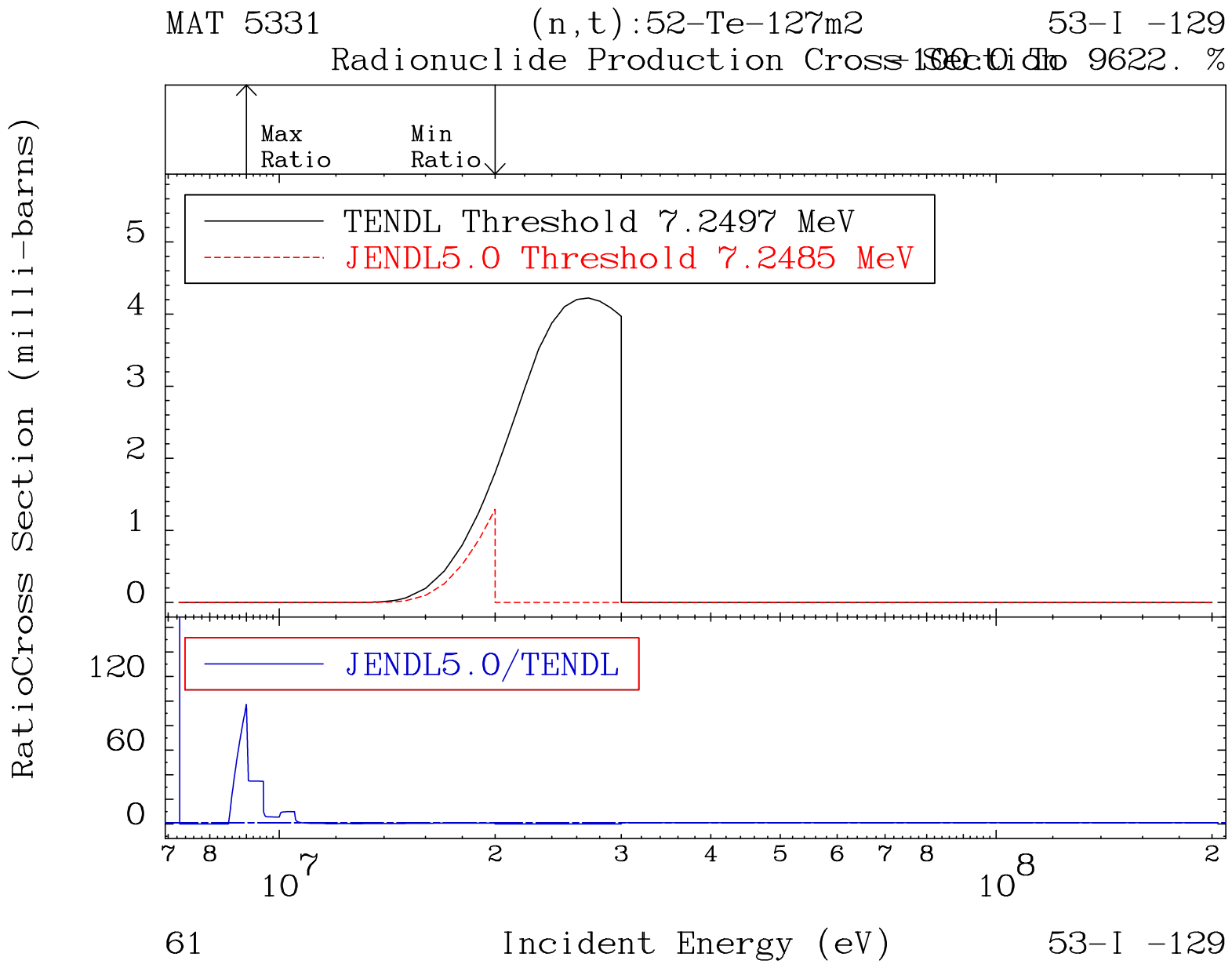

MAT 5331
(n,2n) p:52-Te-127g
53-I -129
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 15.709 MeV
JENDL5.0 Threshold 15.709 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
56
53-I -129

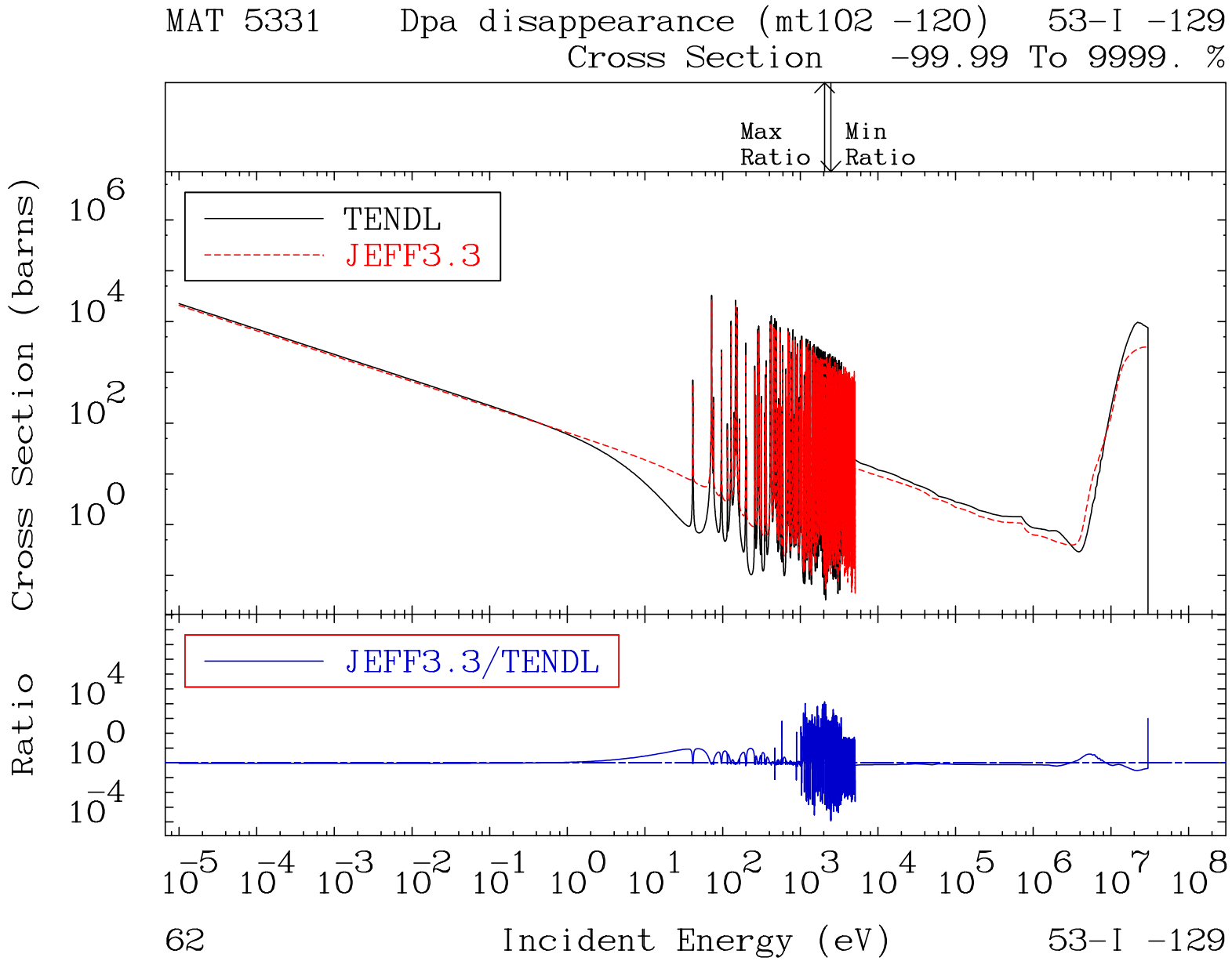

MAT 5331
(n,2n) p:52-Te-127m2
53-I -129
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.798 MeV
JENDL5.0 Threshold 15.798 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
53-I -129

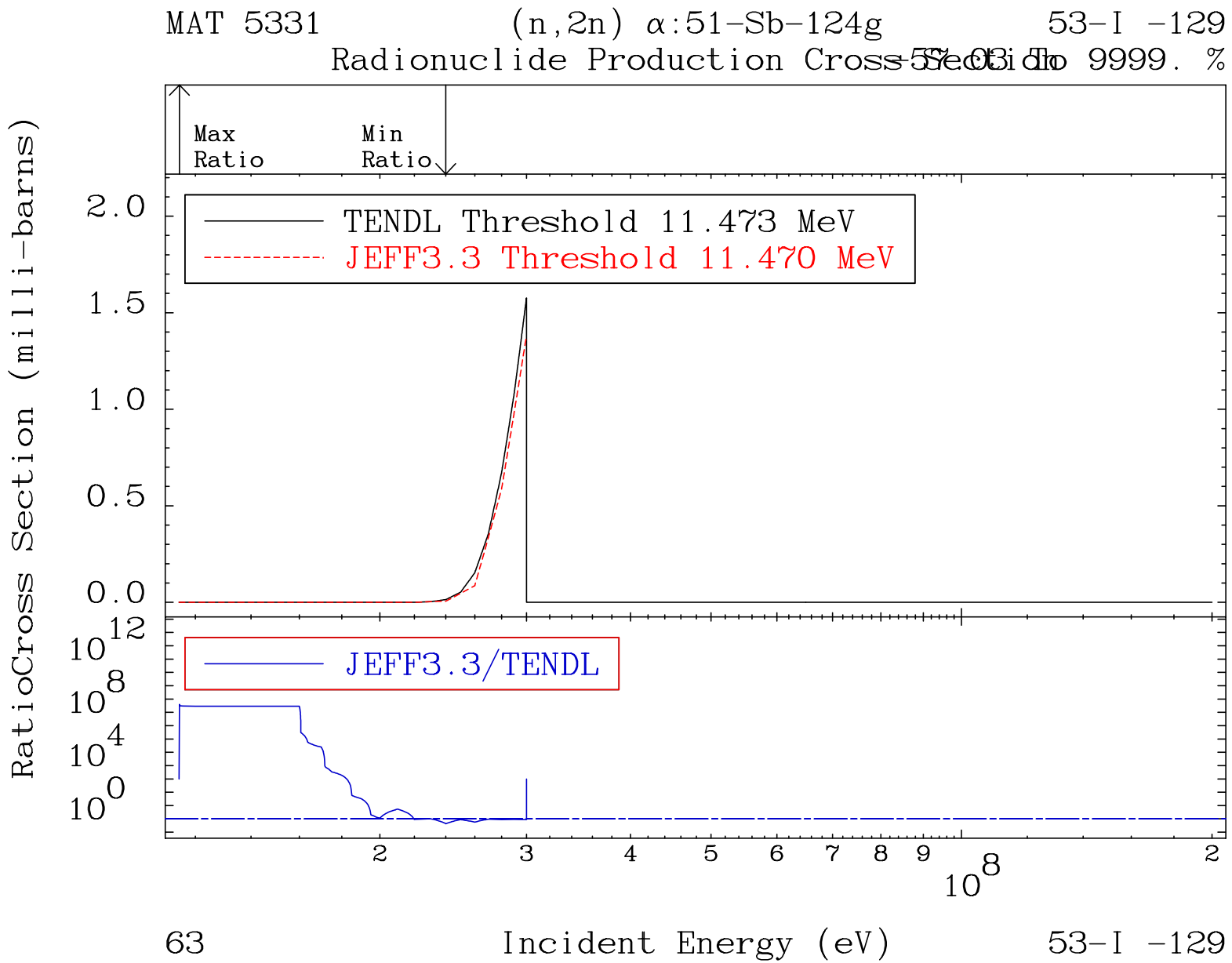

MAT 5331
(n,p):52-Te-129g
53-I -129
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 725.58 keV
JENDL5.0 Threshold 725.58 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
60
40
20
0
8
2
3
4
5
6
8
10^6
10^7
10^8
58
Incident Energy (eV)
53-I -129

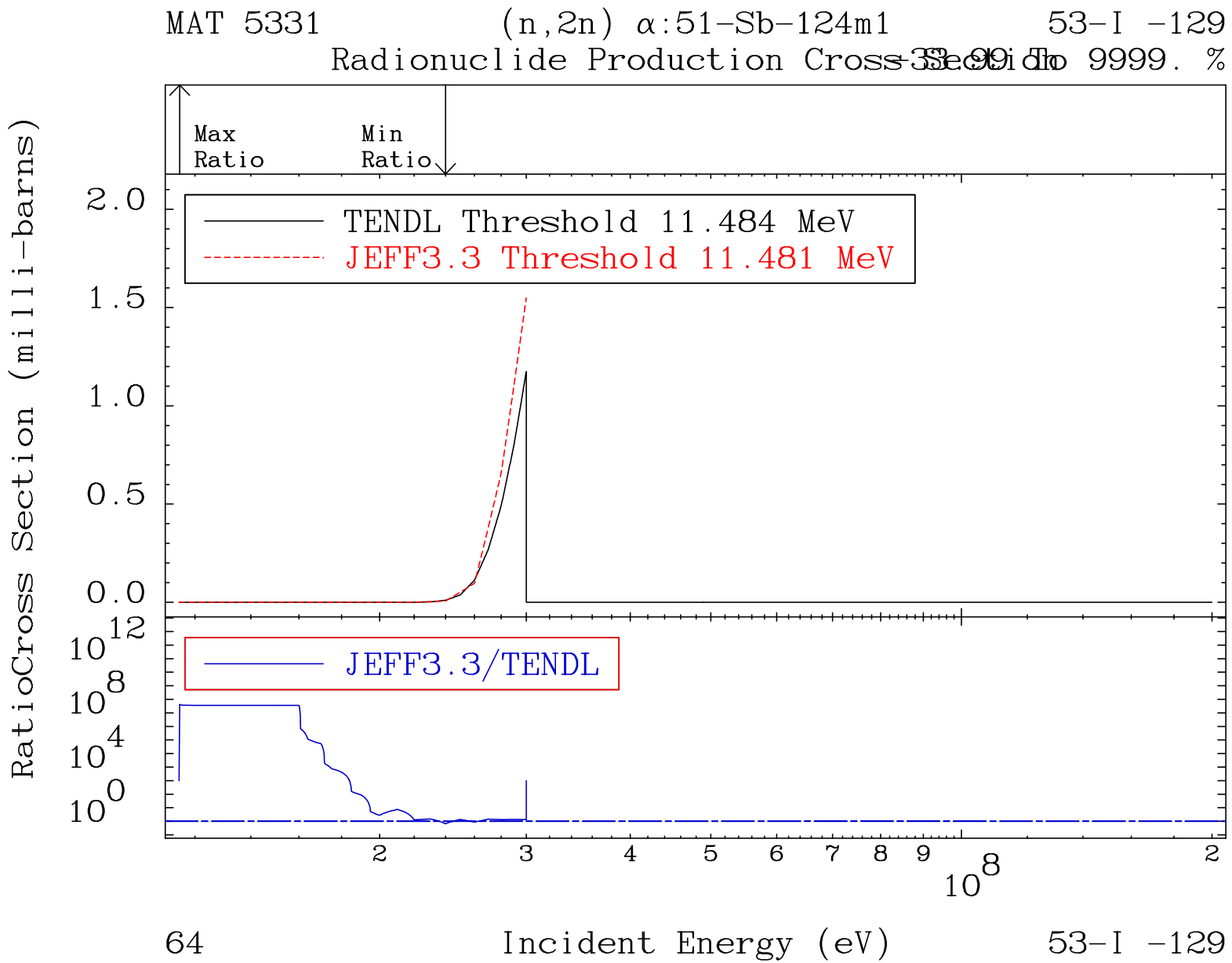

MAT 5331
(n,p):52-Te-129m1
53-I -129
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 831.91 keV
JENDL5.0 Threshold 831.91 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10
0
8
2
3
4
5
6
8
10^6
10^7
10^8
59
Incident Energy (eV)
53-I -129

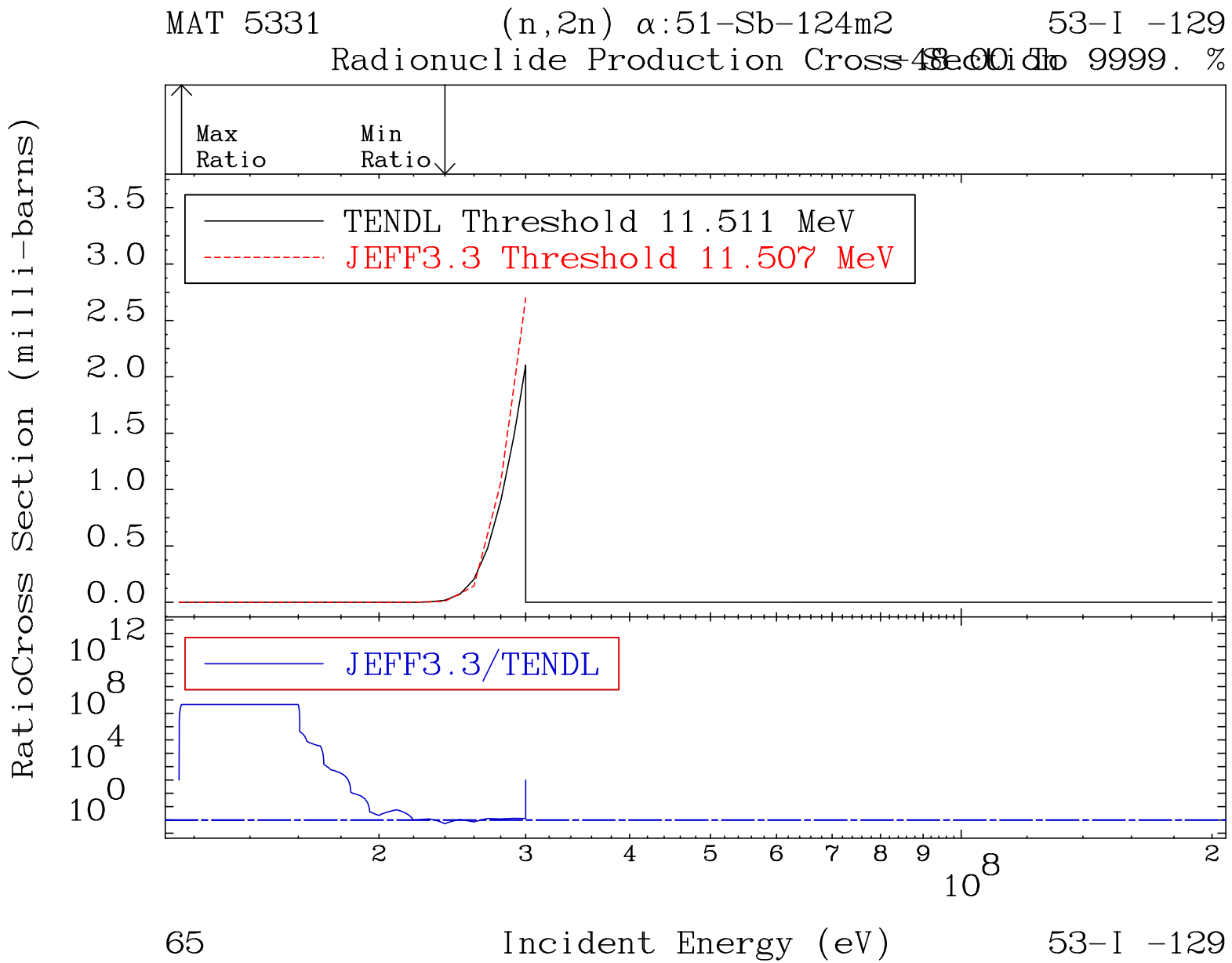

MAT 5331
(n,t):52-Te-127g
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.1608 MeV
JENDL5.0 Threshold 7.1596 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
60
Incident Energy (eV)
53-I -129

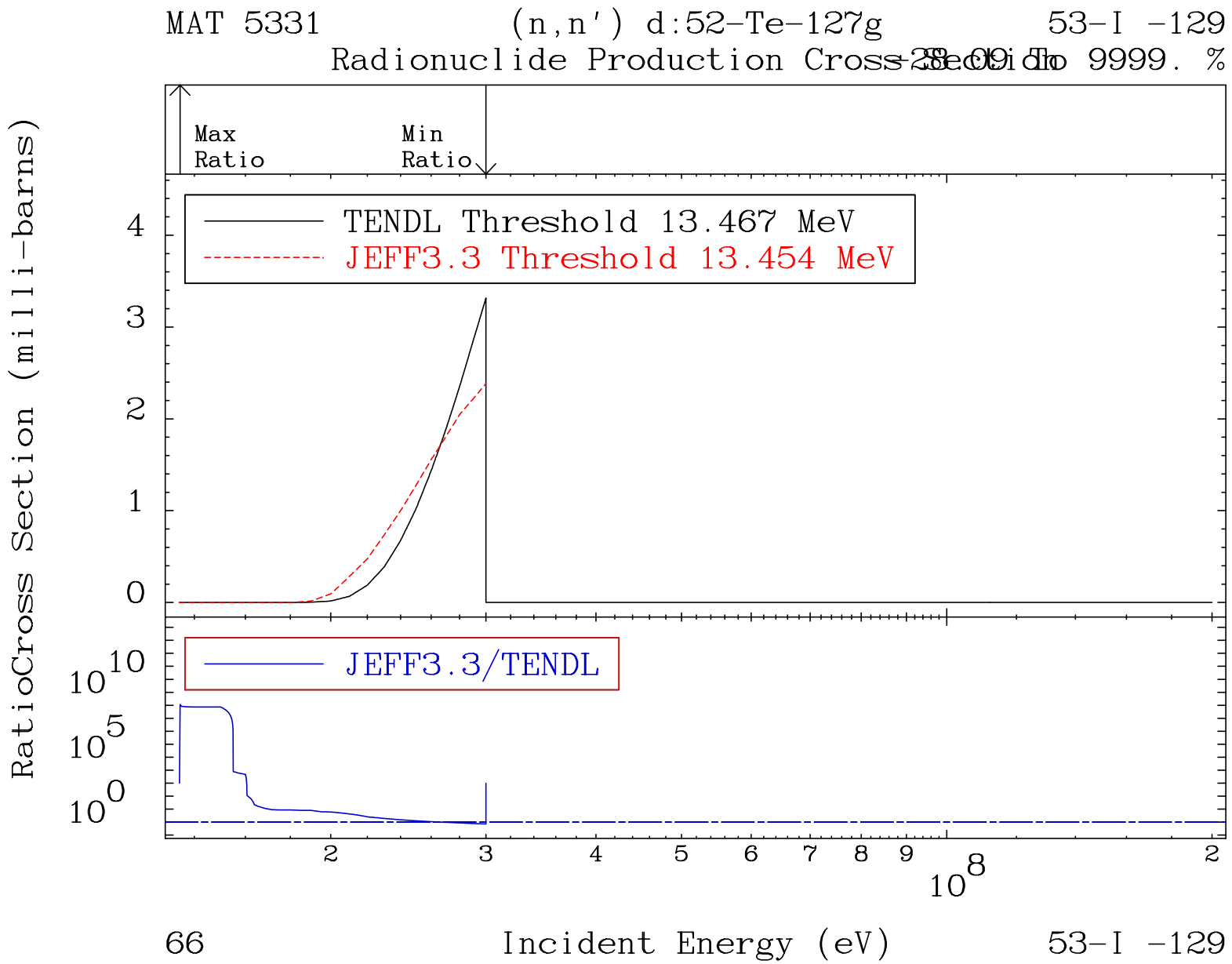

MAT 5331
(n,t):52-Te-127m2
53-I -129
Radionuclide Production Cross Section To
Max Ratio
Min Ratio
TENDL Threshold 7.2497 MeV
JENDL5.0 Threshold 7.2485 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
61
53-I -129

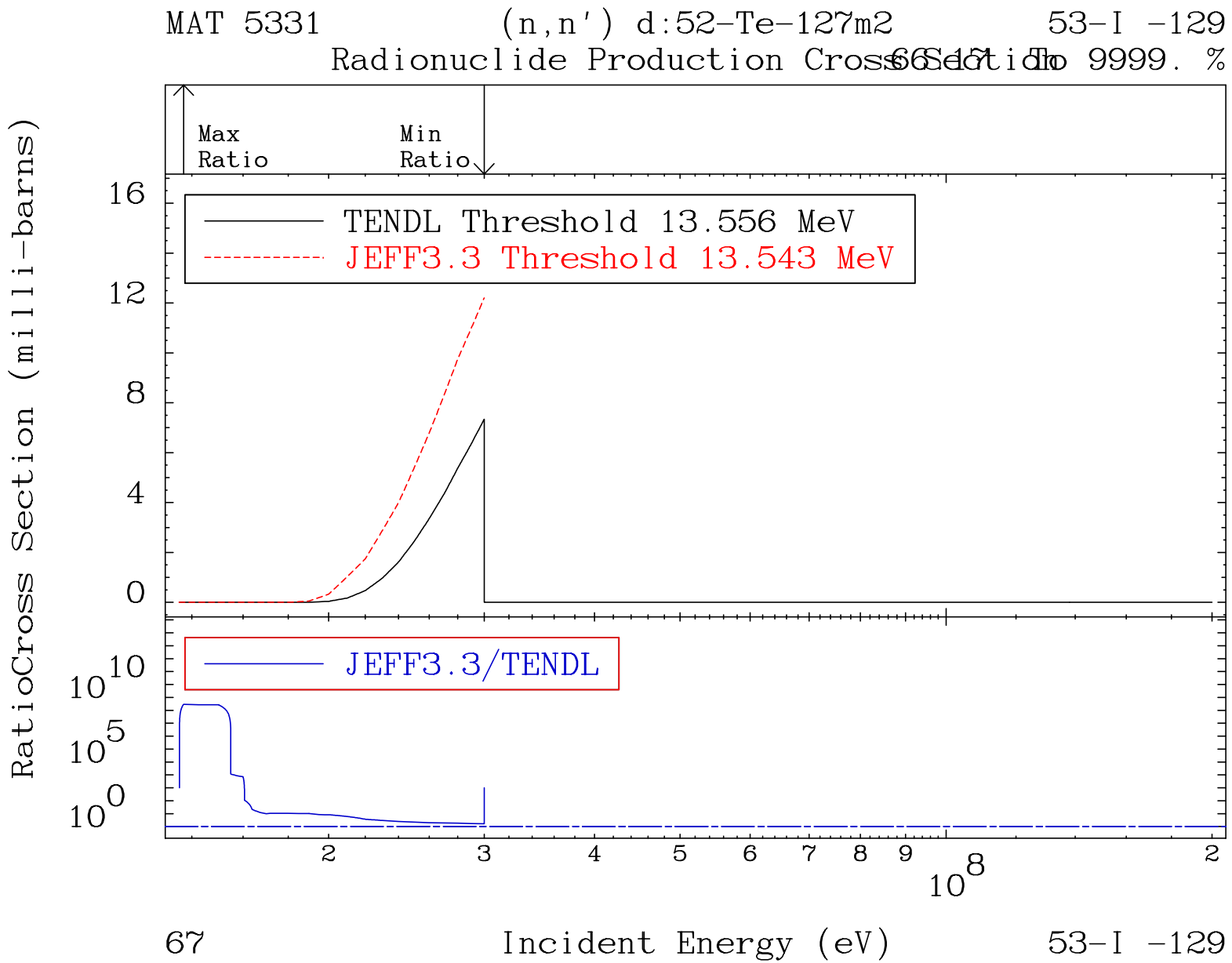

MAT 5331 Dpa disappearance (mt102 -120) 53-I -129
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
53-I -129

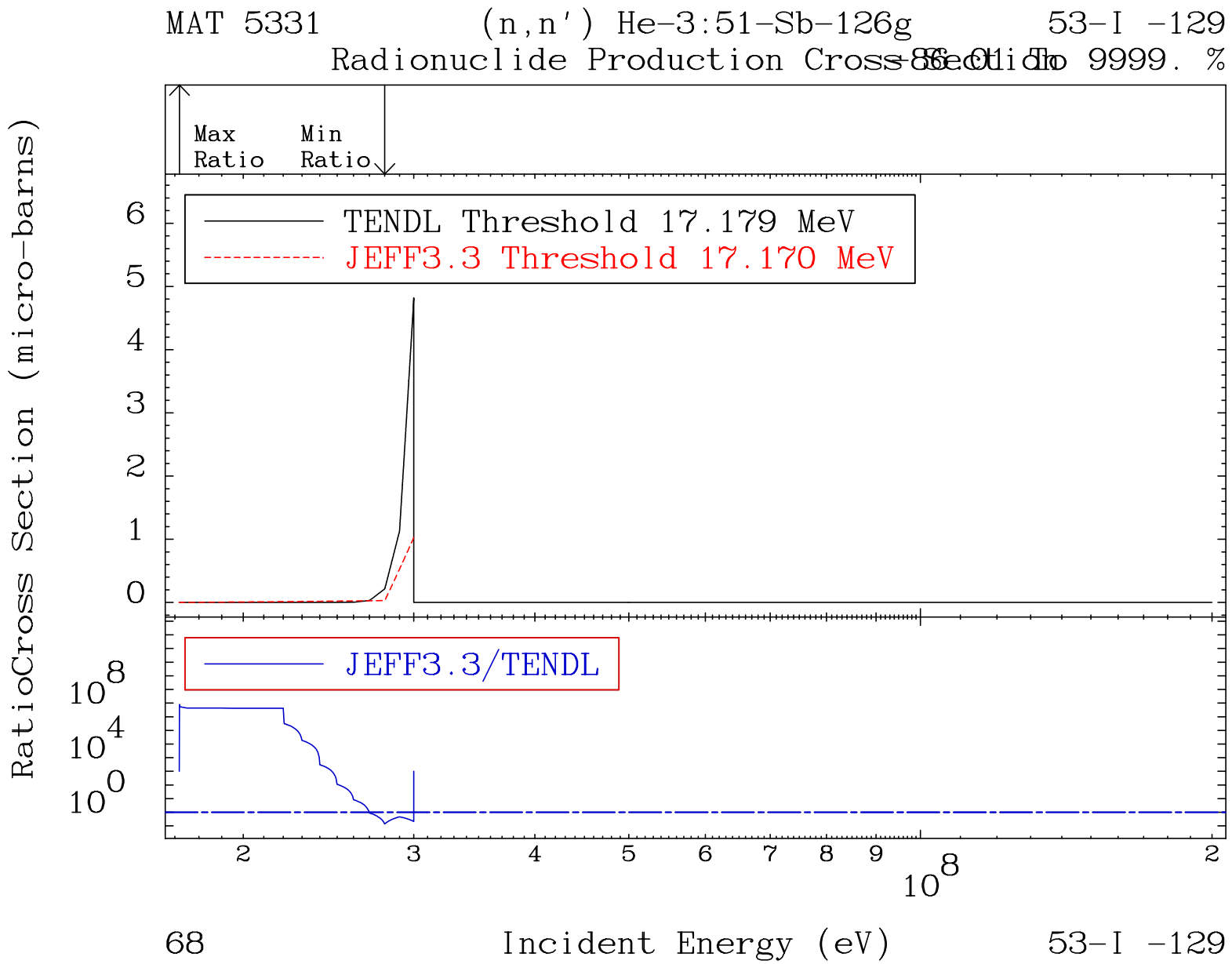

MAT 5331
(n,2n) α:51-Sb-124g
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.473 MeV
JEFF3.3 Threshold 11.470 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^12
10^8
10^4
10^0
2
3
4
5
6
7
8
9
2
10^8
63
Incident Energy (eV)
53-I -129

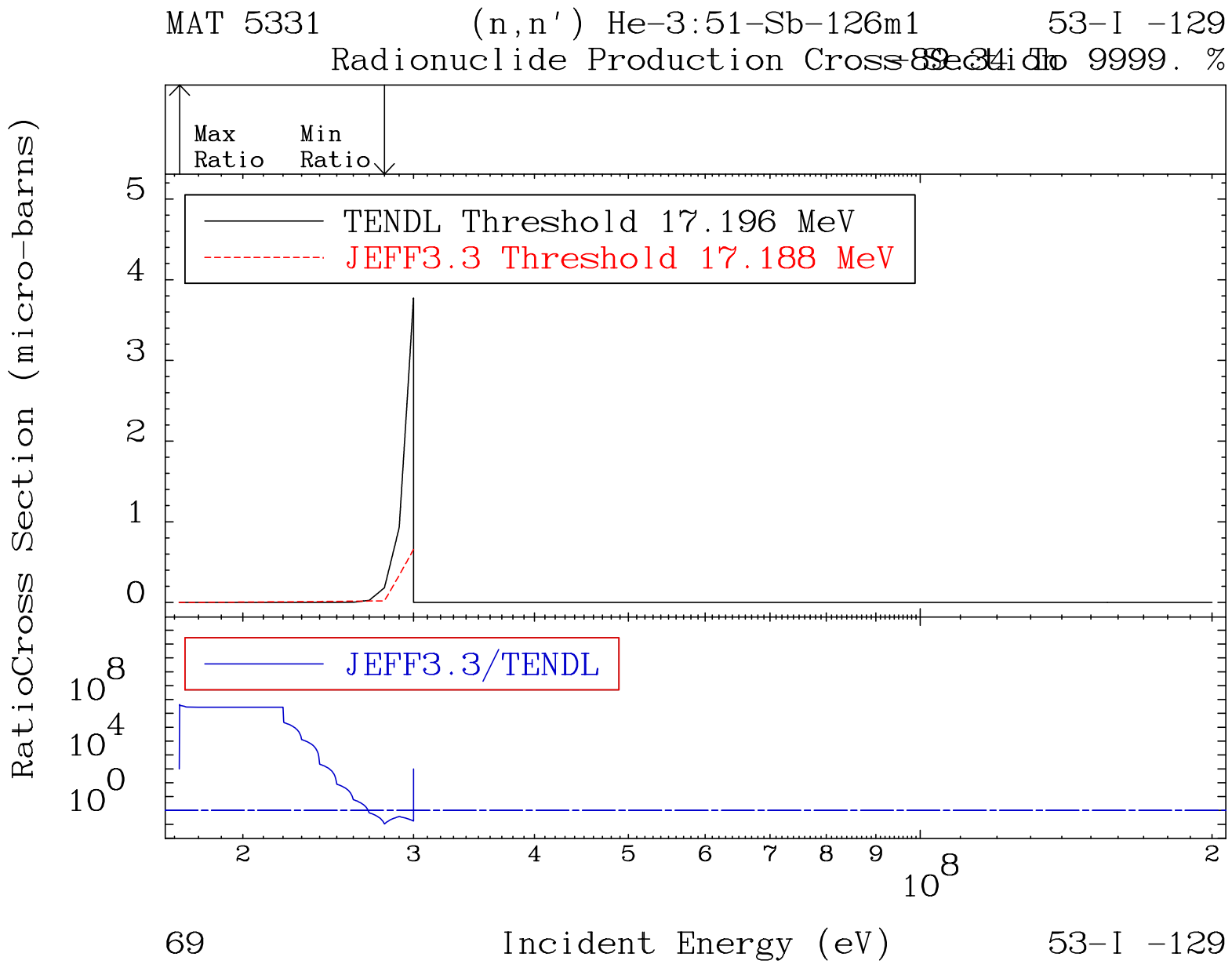

MAT 5331
(n,2n) α:51-Sb-124m1
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.484 MeV
JEFF3.3 Threshold 11.481 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^12
10^8
10^4
10^0
2
3
4
5
6
7
8
9
10^8
64
Incident Energy (eV)
53-I -129

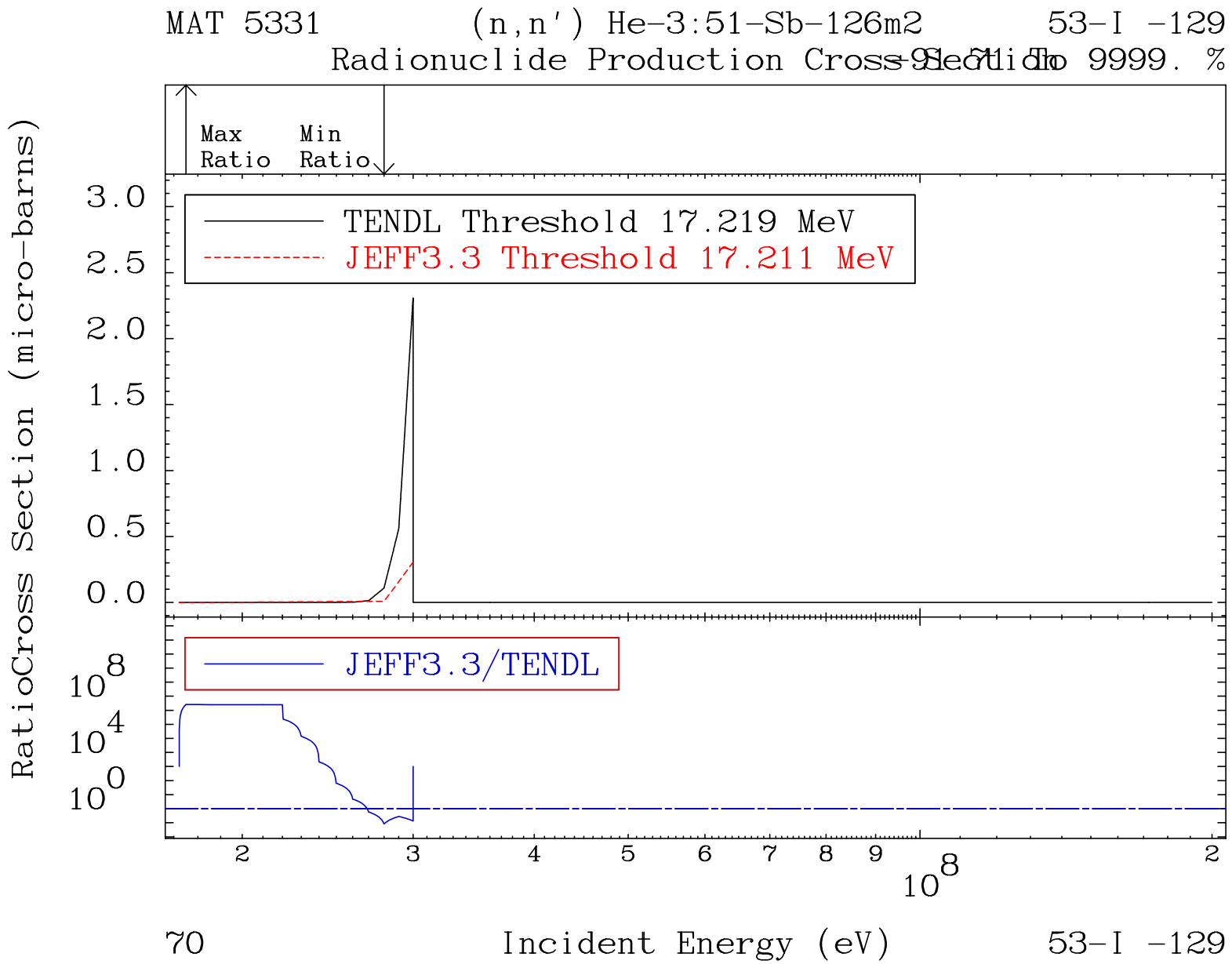

MAT 5331
(n,2n) α:51-Sb-124m2
53-I -129
Radionuclide Production Cross-Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.511 MeV
JEFF3.3 Threshold 11.507 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^12
10^8
10^4
10^0
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
53-I -129

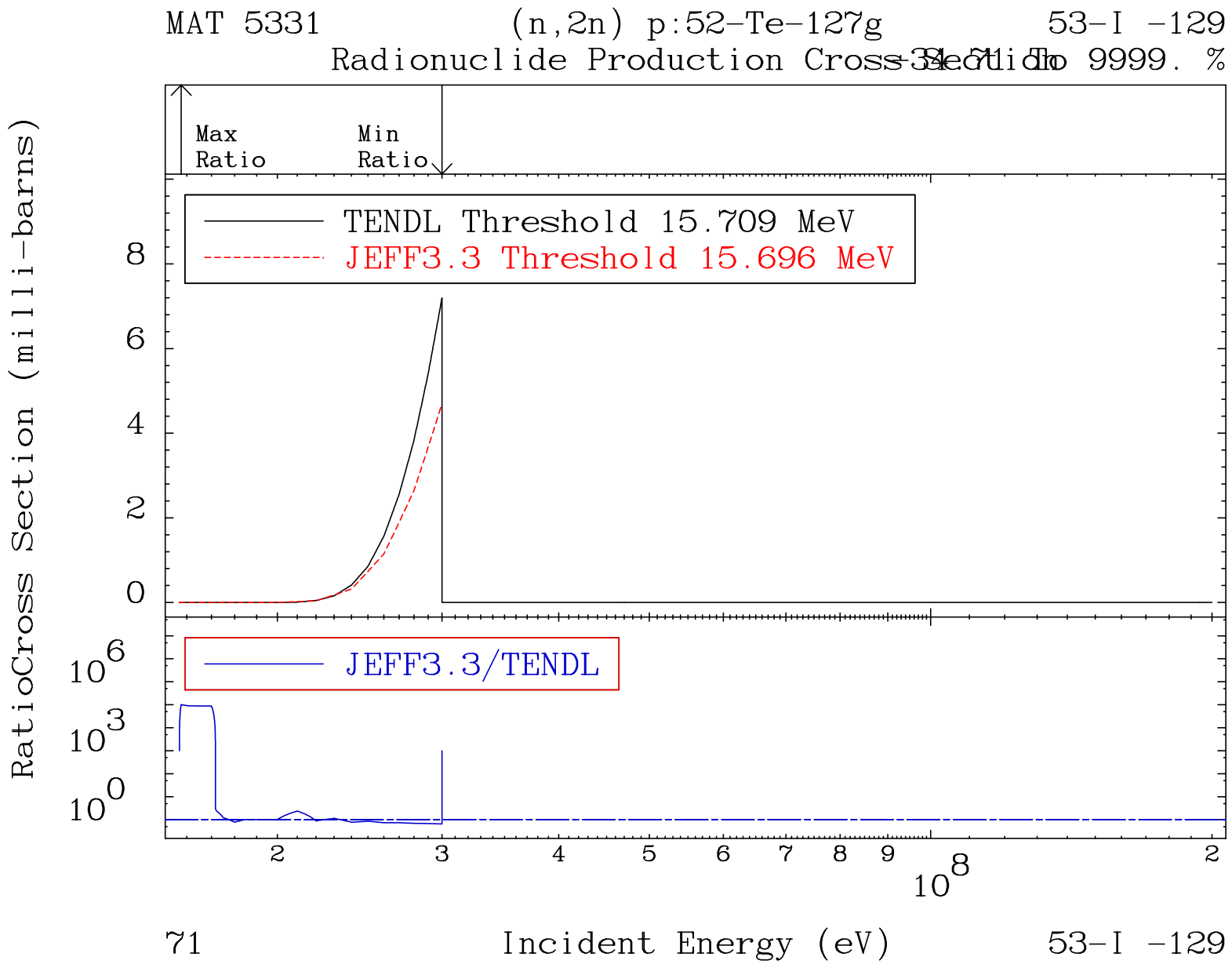

MAT 5331
(n,n') d:52-Te-127g
53-I -129
Radionuclide Production Cross-Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.467 MeV
JEFF3.3 Threshold 13.454 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
53-I -129

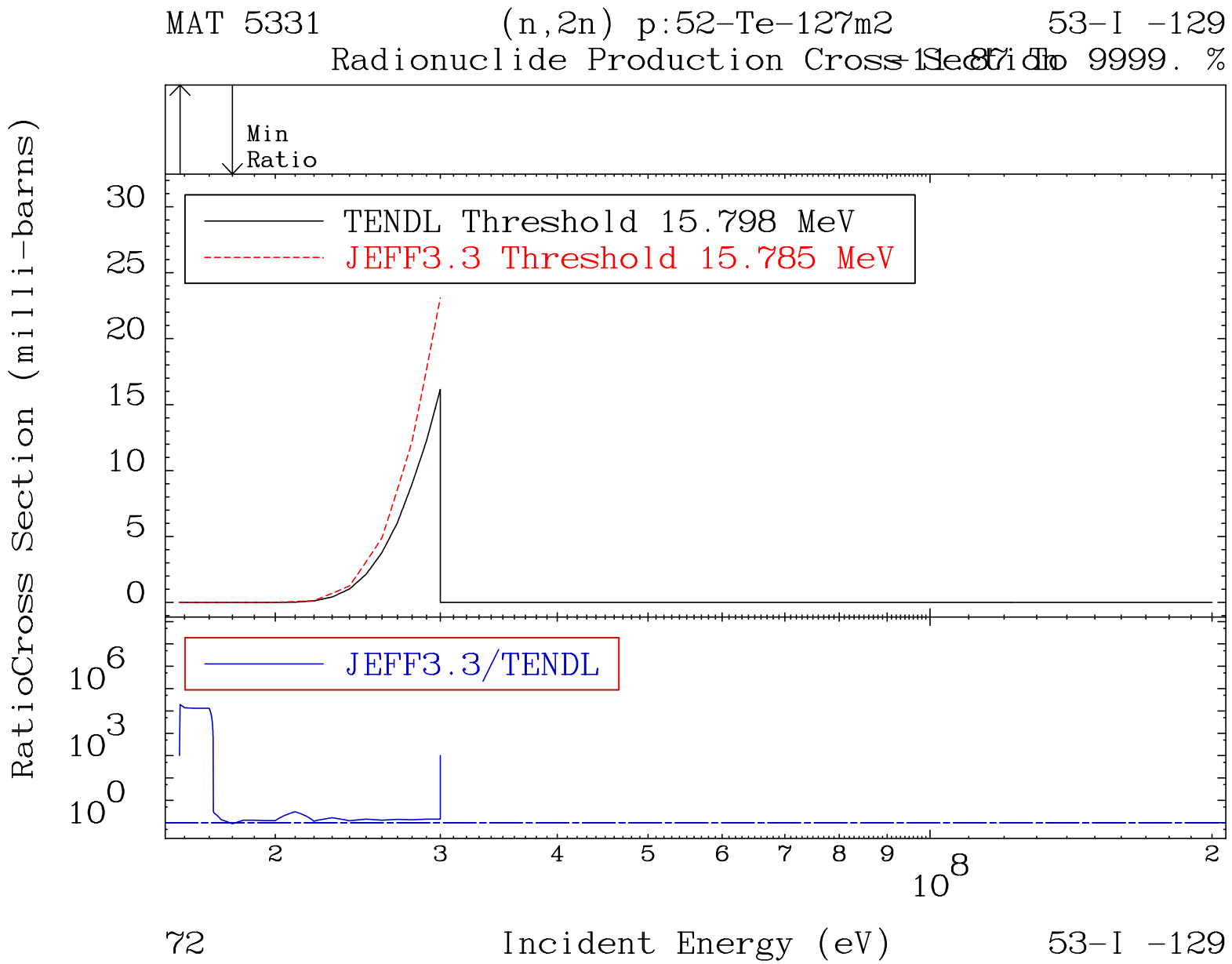

MAT 5331
(n,n') d:52-Te-127m2
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.556 MeV
JEFF3.3 Threshold 13.543 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
10^10
10^5
10^0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
53-I -129

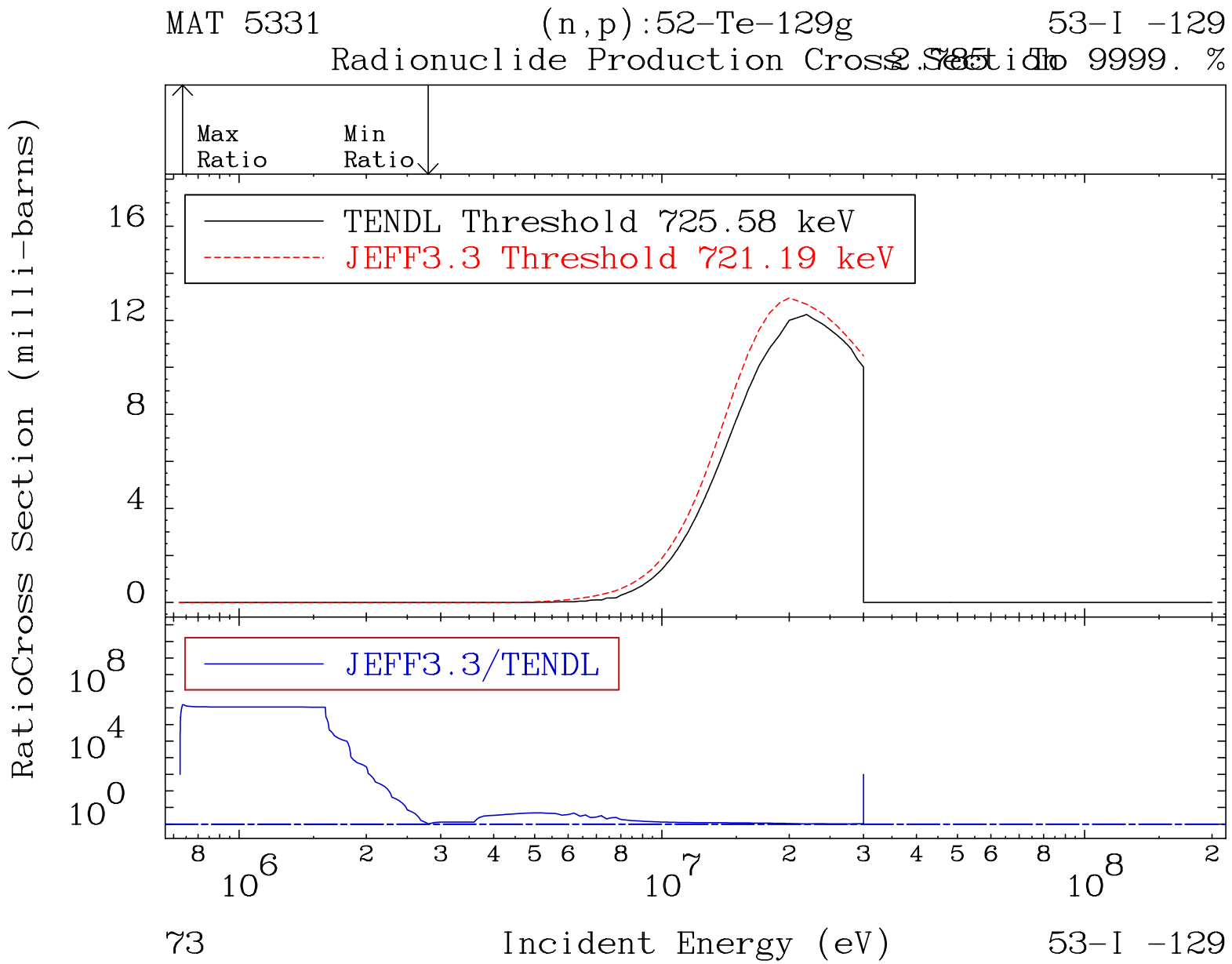

MAT 5331 (n,n') He-3:51-Sb-126g 53-I -129
Radionuclide Production Cross-Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.179 MeV
JEFF3.3 Threshold 17.170 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
68
53-I -129

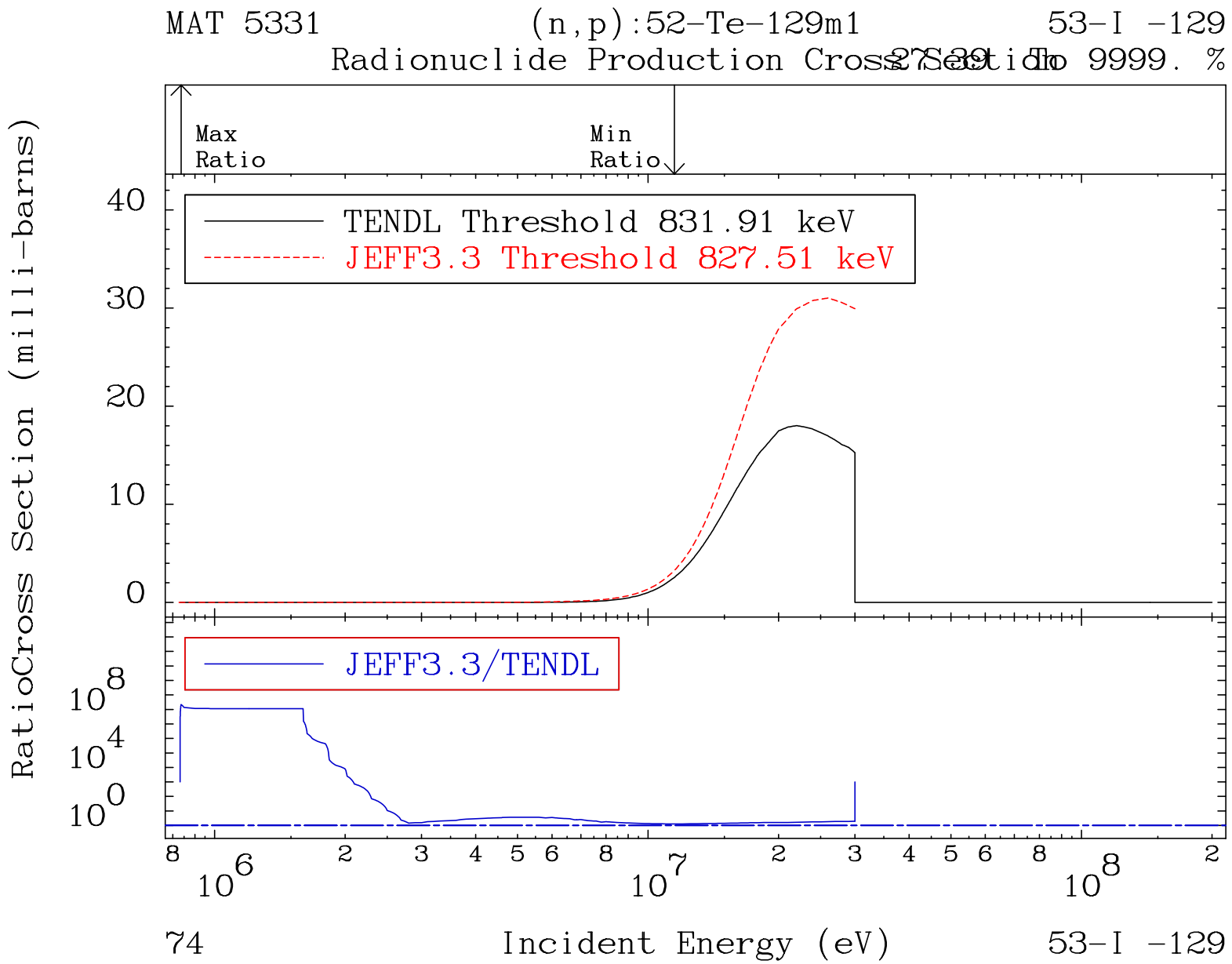

MAT 5331 (n,n') He-3:51-Sb-126m1 53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.196 MeV
JEFF3.3 Threshold 17.188 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
69
53-I -129

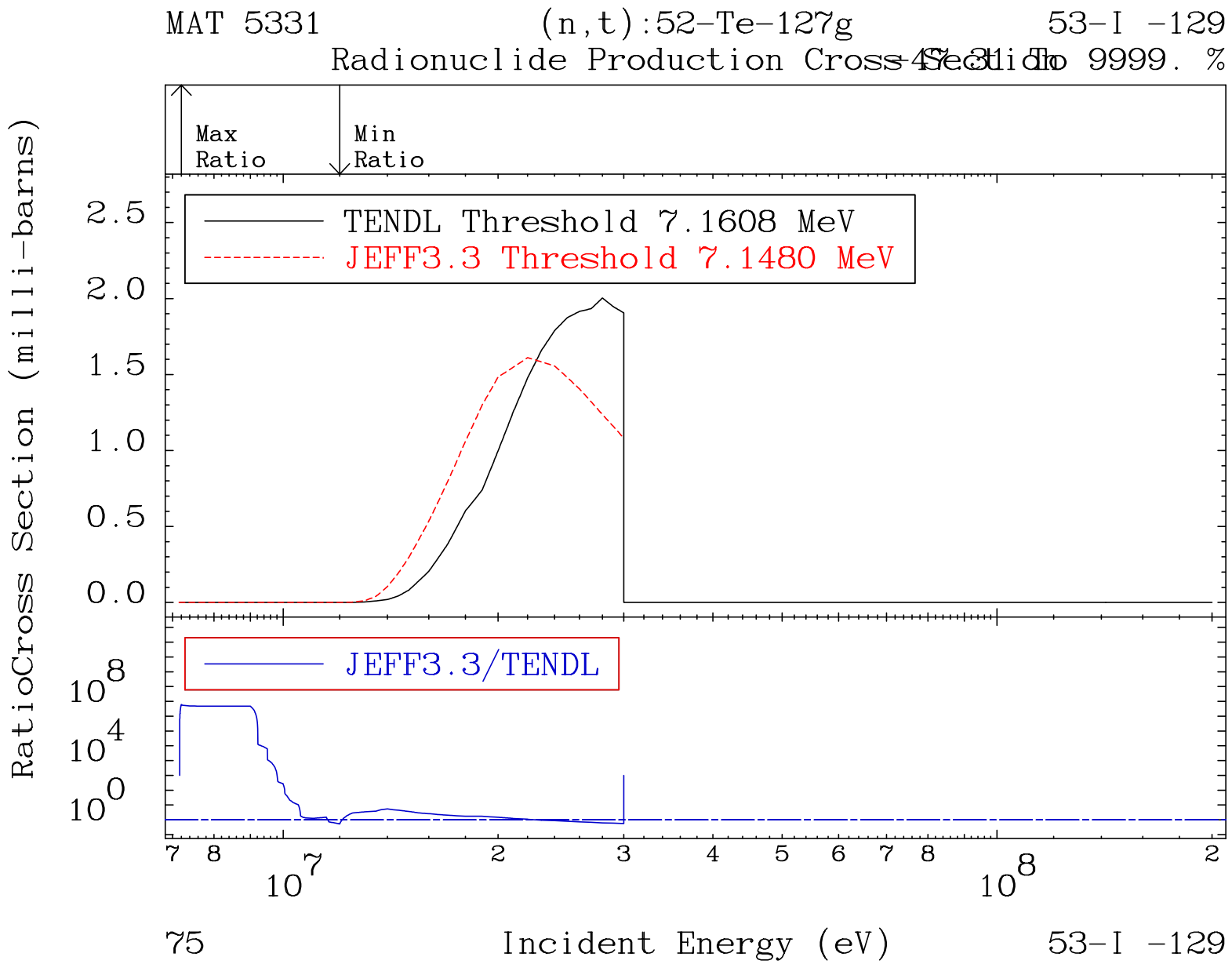

MAT 5331 (n,n') He-3:51-Sb-126m2 53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 17.219 MeV
JEFF3.3 Threshold 17.211 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
70
53-I -129

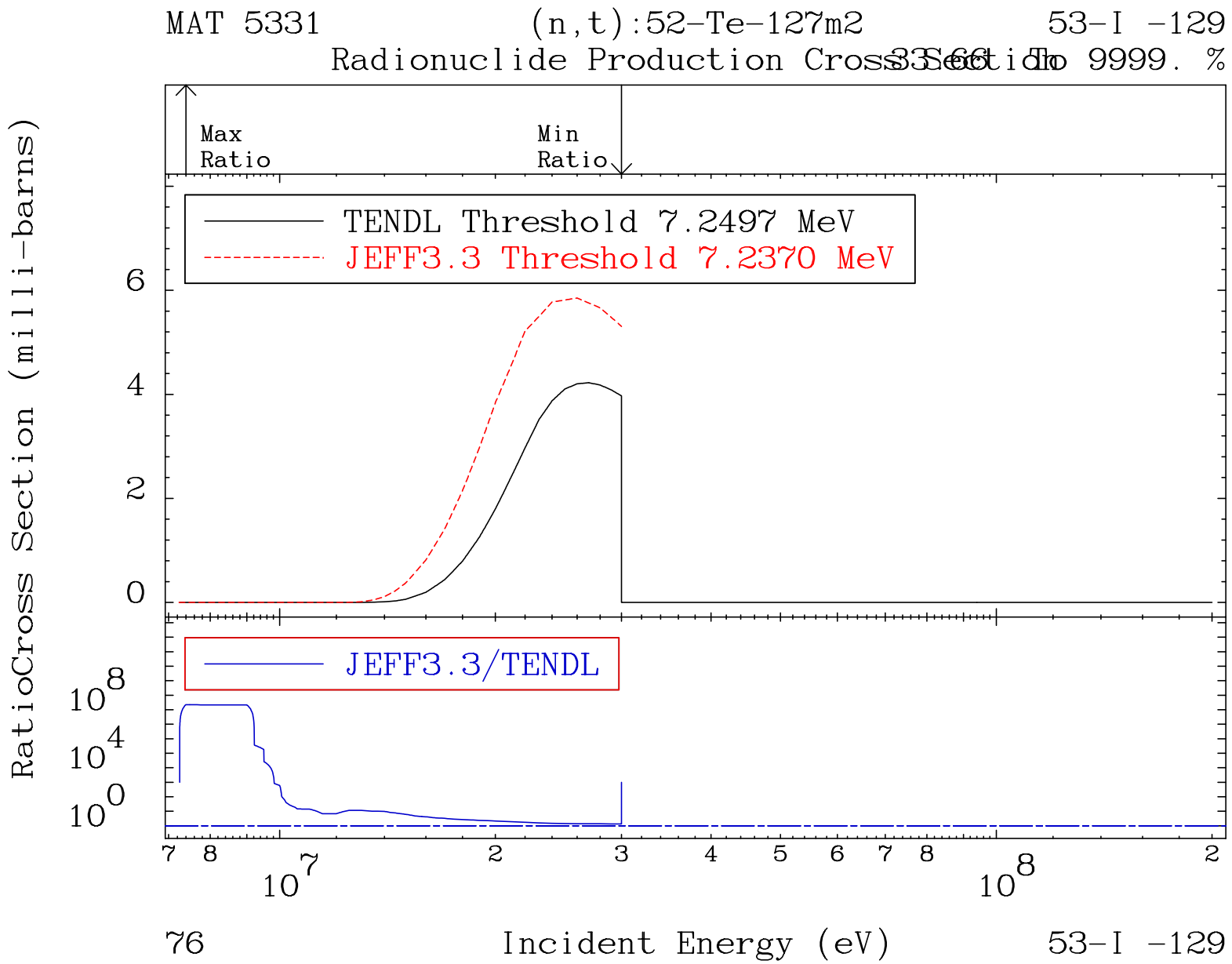

MAT 5331
(n,2n) p:52-Te-127g
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 15.709 MeV
JEFF3.3 Threshold 15.696 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
10^0
10^3
10^6
2
3
4
5
6
7
8
9
2
10^8
71
Incident Energy (eV)
53-I -129

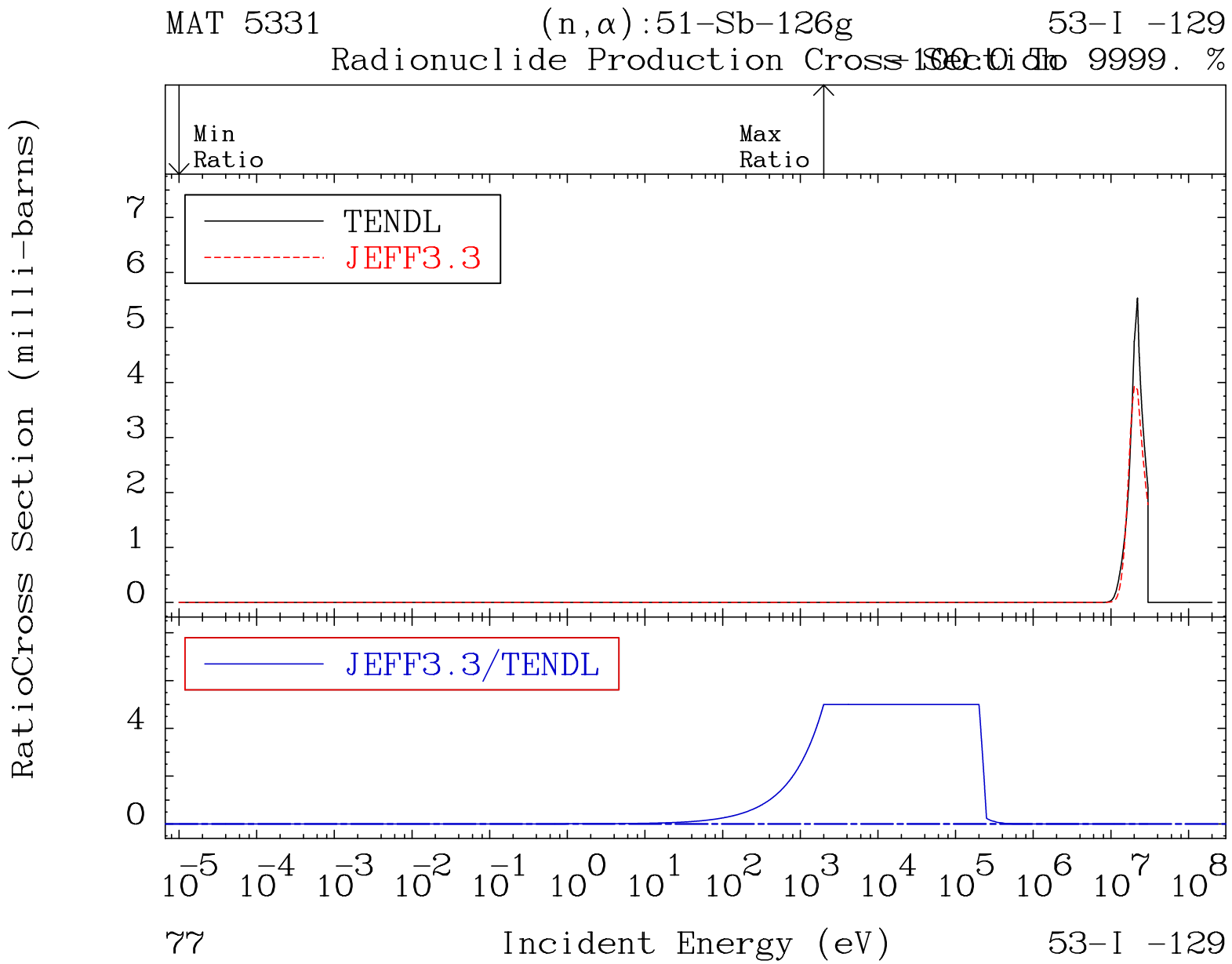

MAT 5331
(n,2n) p:52-Te-127m2
53-I -129
Radionuclide Production Cross Section To 9999. %
Min
Ratio
30
25
20
15
10
5
0
TENDL Threshold 15.798 MeV
JEFF3.3 Threshold 15.785 MeV
JEFF3.3/TENDL
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
72
Incident Energy (eV)
53-I -129

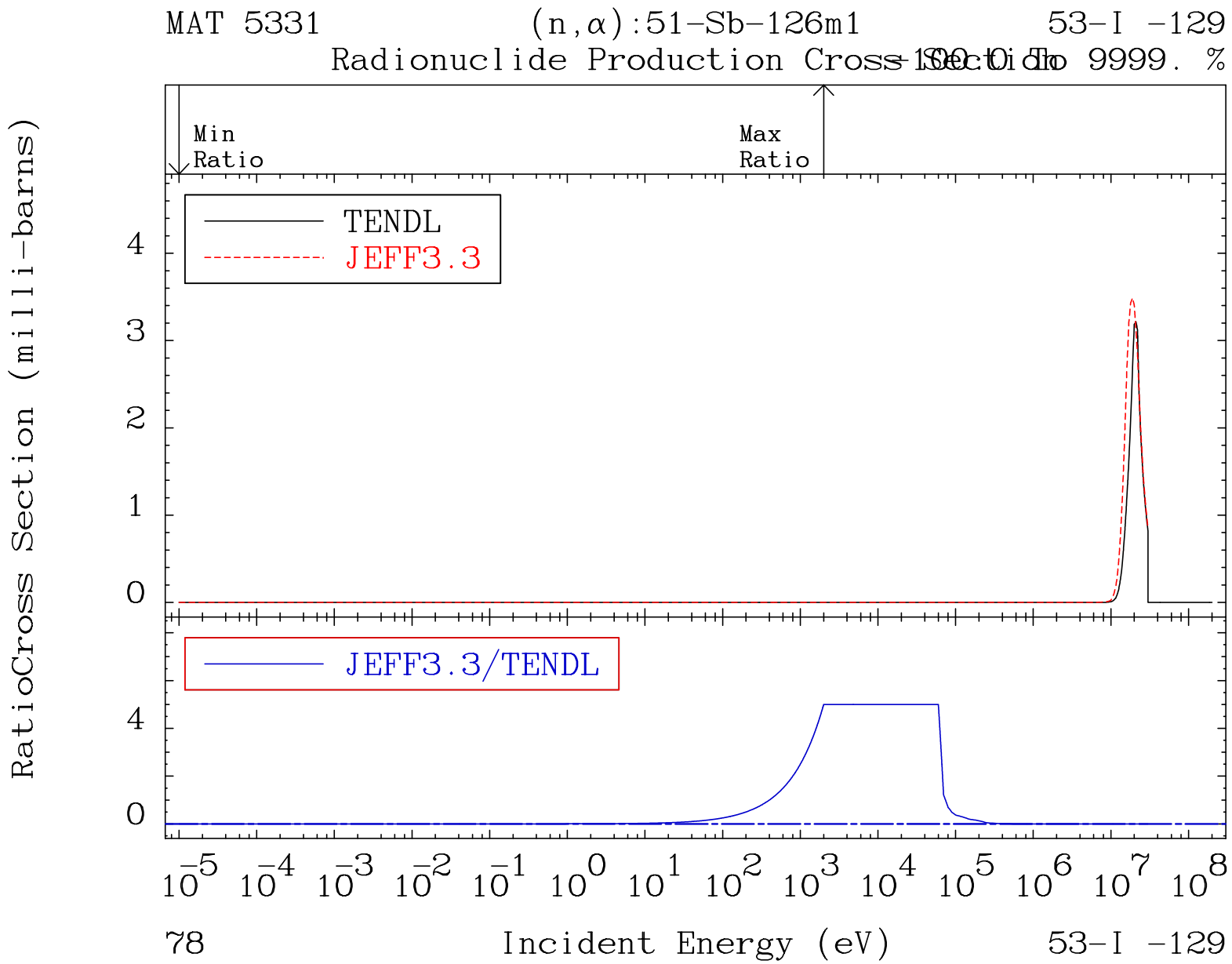

MAT 5331
(n,p):52-Te-129g
53-I -129
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 725.58 keV
JEFF3.3 Threshold 721.19 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
53-I -129

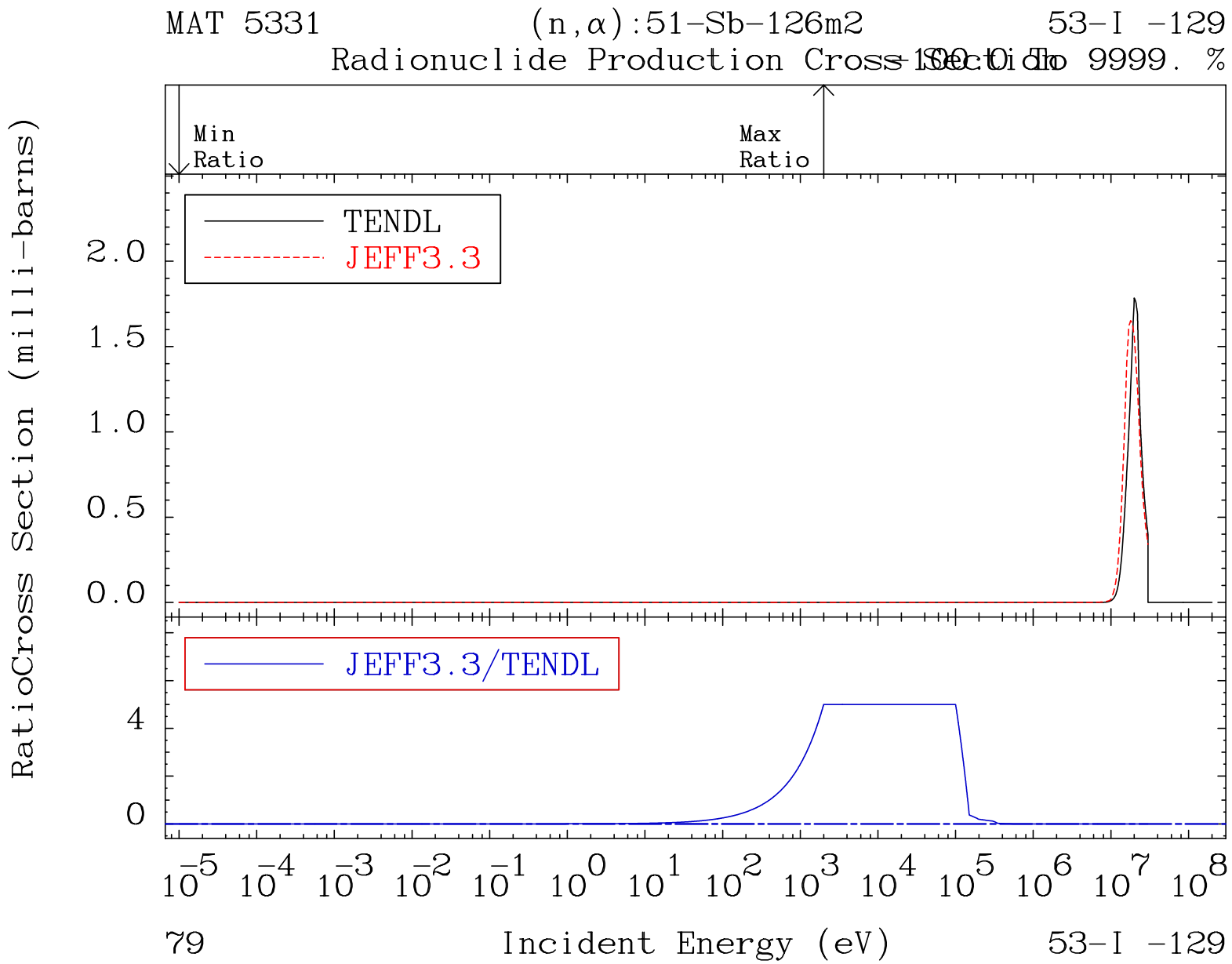

MAT 5331
(n,p):52-Te-129m1
53-I -129
Radionuclide Production Cross Section
27.39 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 831.91 keV
JEFF3.3 Threshold 827.51 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^8
10^4
10^0
8
2
3
4
5
6
8
10^6
10^7
10^8
74
Incident Energy (eV)
53-I -129

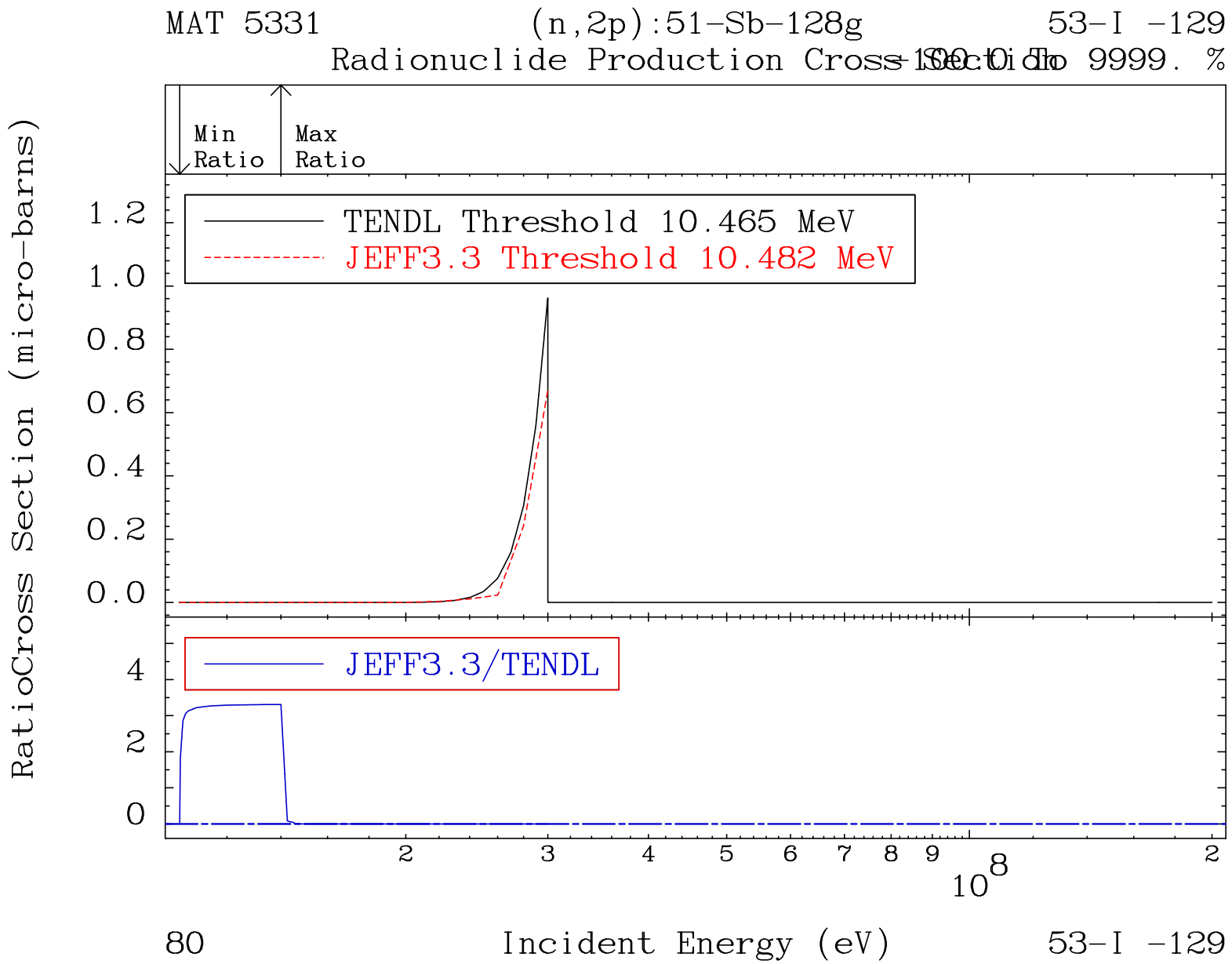

MAT 5331
(n,t):52-Te-127g
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.1608 MeV
JEFF3.3 Threshold 7.1480 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
10^8
10^4
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
75
Incident Energy (eV)
53-I -129

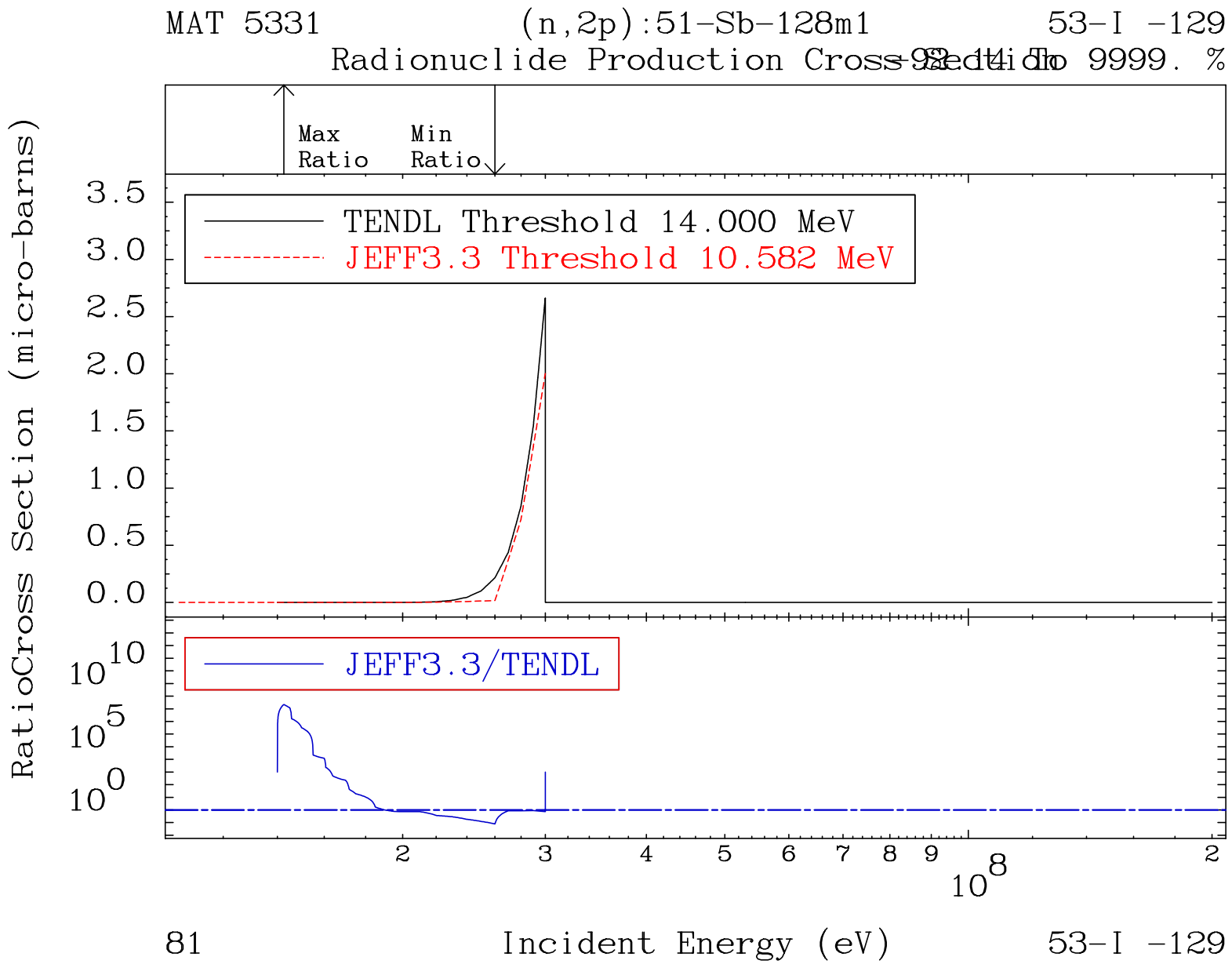

MAT 5331
(n,t):52-Te-127m2
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.2497 MeV
JEFF3.3 Threshold 7.2370 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
76
53-I -129

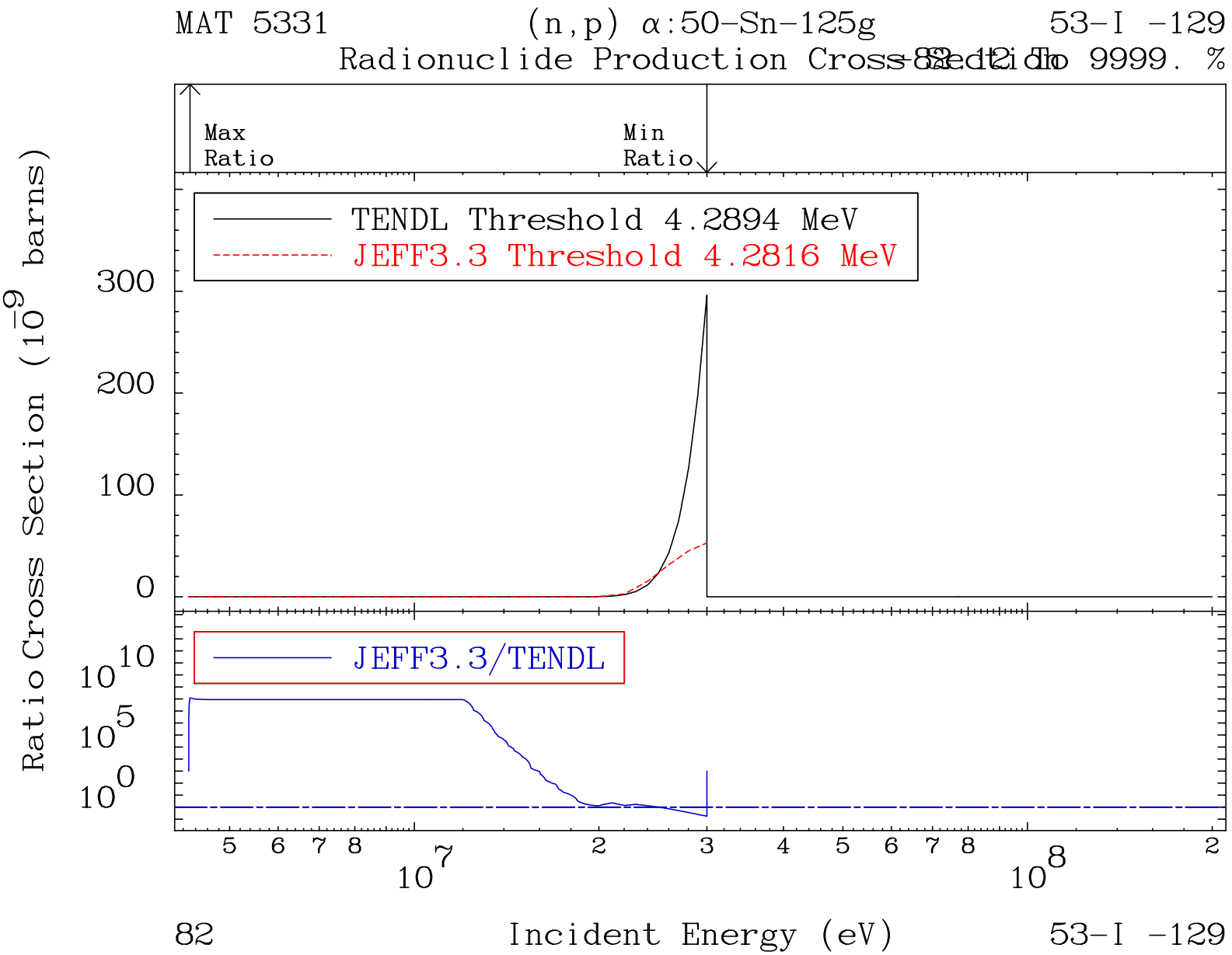

MAT 5331
(n,α):51-Sb-126g
53-I -129
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
77
53-I -129

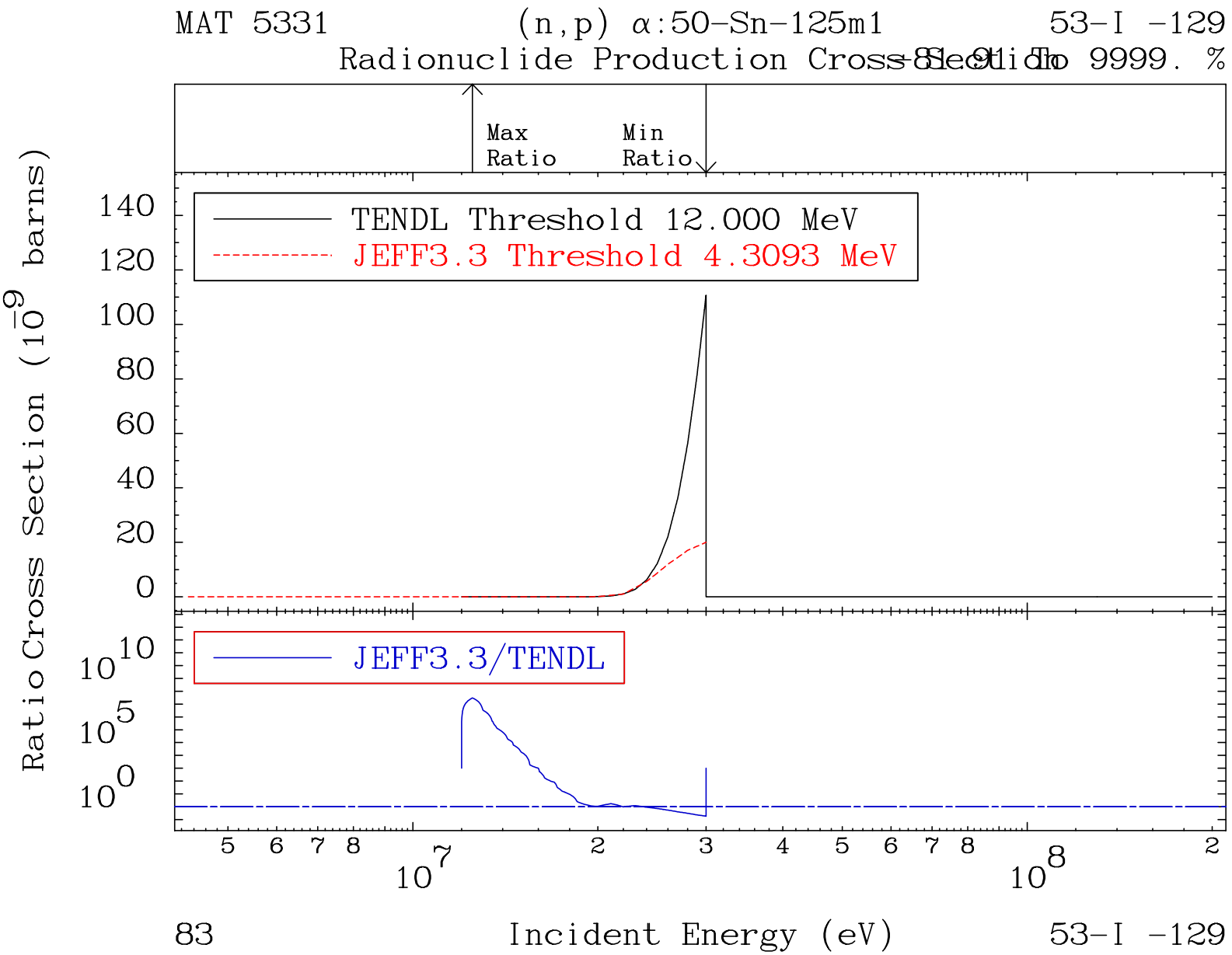

MAT 5331
(n,α):51-Sb-126m1
53-I -129
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
78
53-I -129

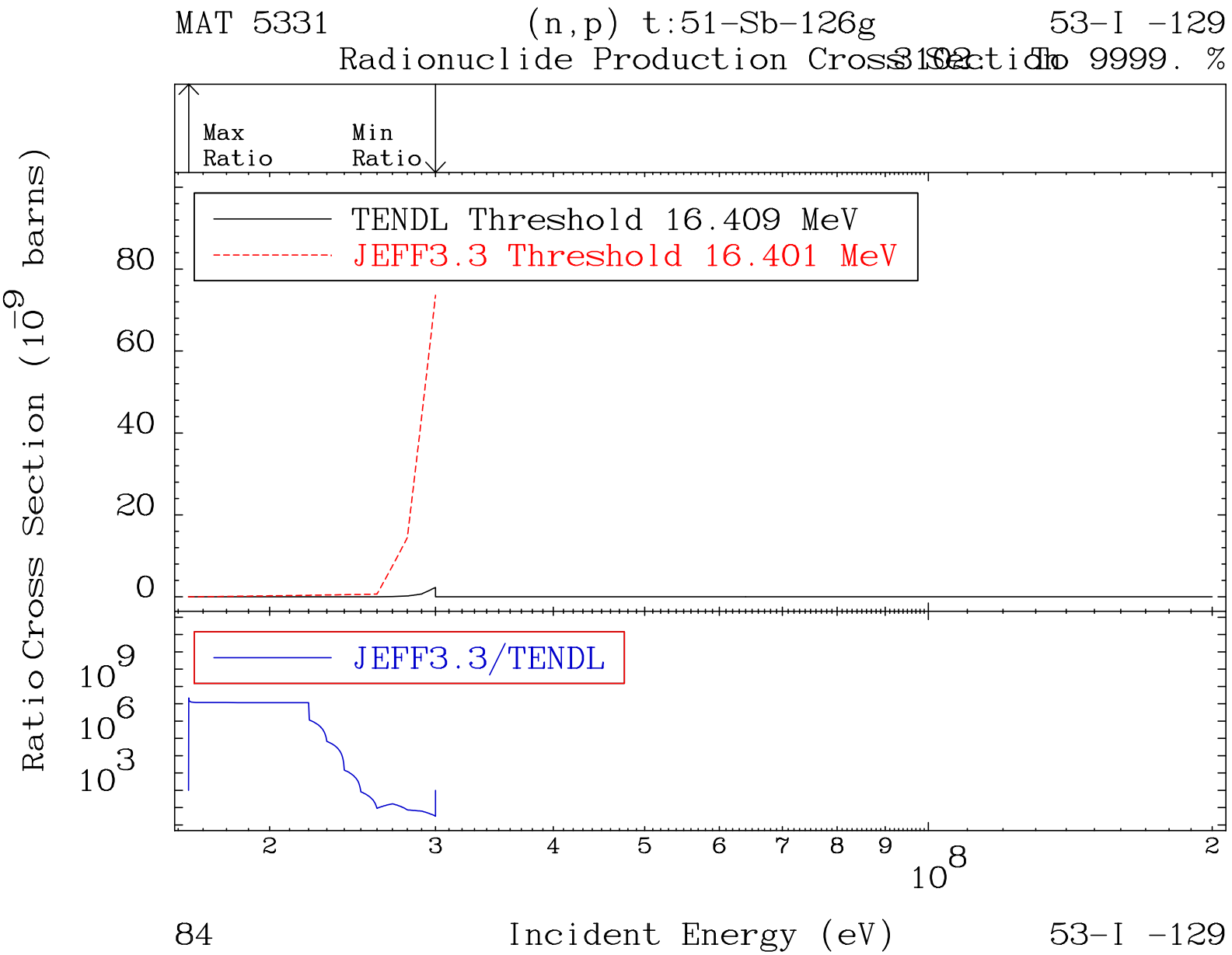

MAT 5331
(n,α):51-Sb-126m2
53-I -129
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
4
0
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
79
Incident Energy (eV)
53-I -129

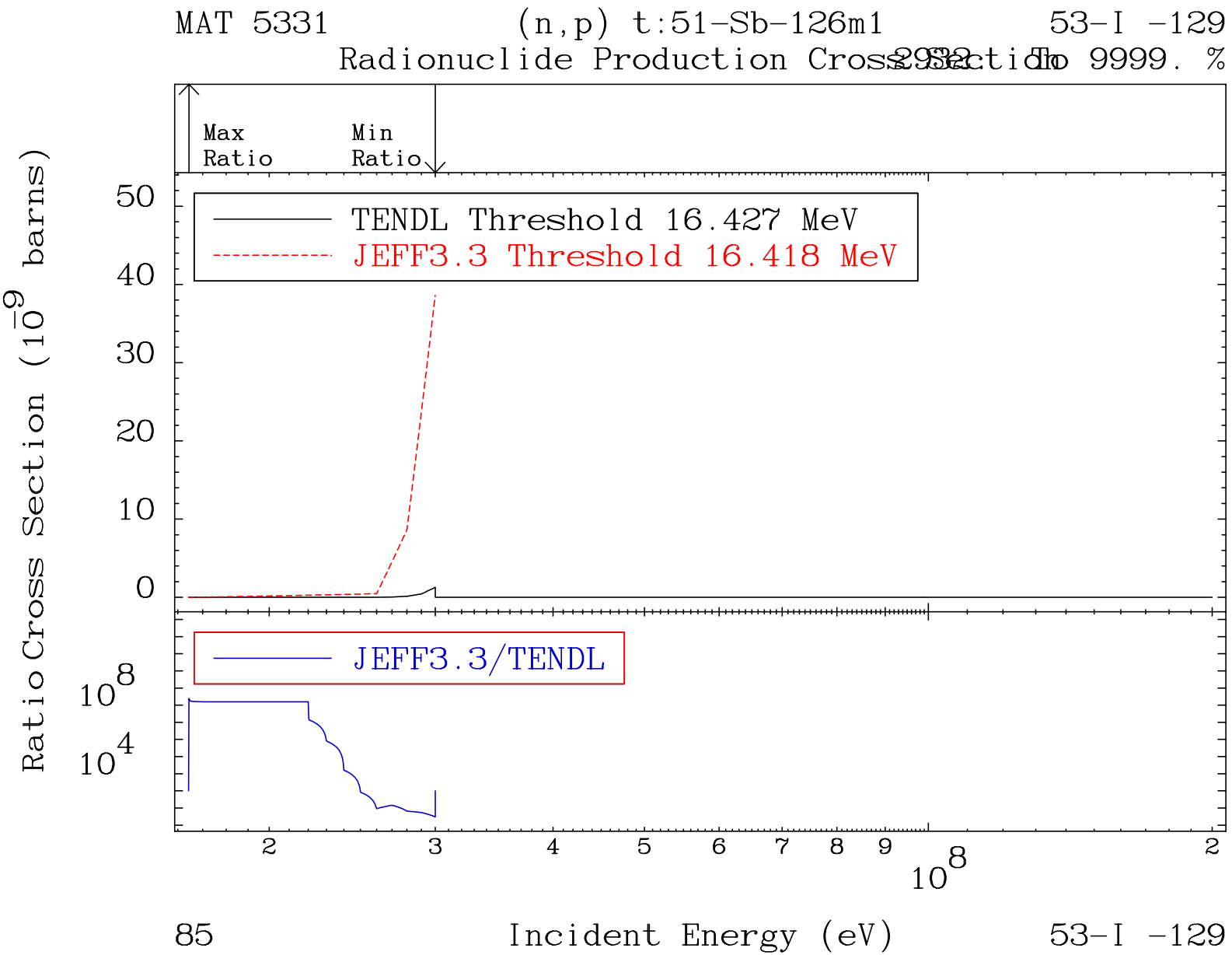

MAT 5331
(n,2p):51-Sb-128g
53-I -129
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.465 MeV
JEFF3.3 Threshold 10.482 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
53-I -129

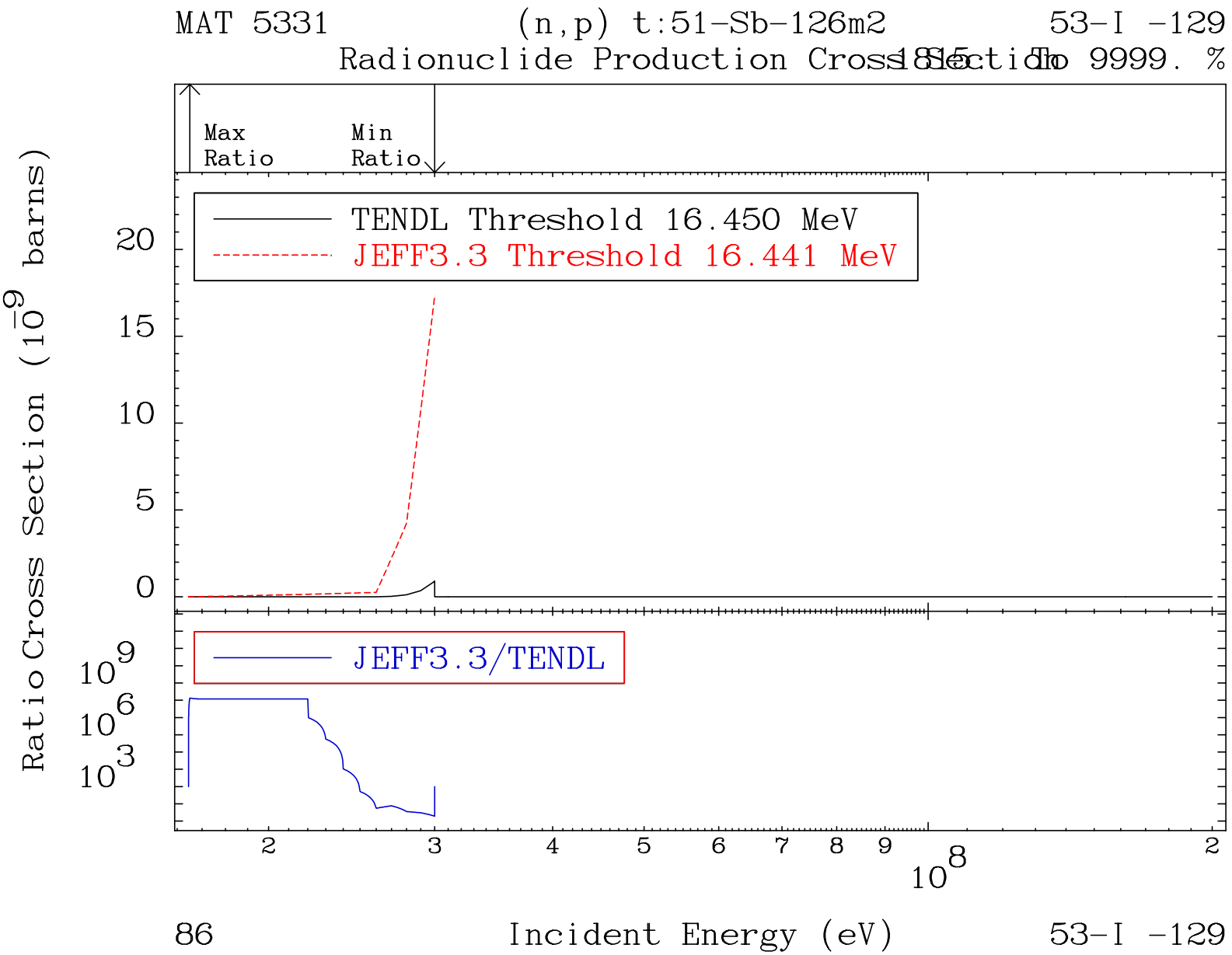

MAT 5331
(n,2p):51-Sb-128m1
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 14.000 MeV
JEFF3.3 Threshold 10.582 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^10
10^5
10^0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) α:50-Sn-125g
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.2894 MeV
JEFF3.3 Threshold 4.2816 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
300
200
100
0
10^10
10^5
10^0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
82
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) α:50-Sn-125m1
53-I -129
Radionuclide Production Cross-Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.000 MeV
JEFF3.3 Threshold 4.3093 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
140
120
100
80
60
40
20
0
10^10
10^5
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
83
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) t:51-Sb-126g
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.409 MeV
JEFF3.3 Threshold 16.401 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
80
60
40
20
0
10^{9}
10^{6}
10^{3}
2
3
4
5
6
7
8
9
10^{8}
2
84
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) t:51-Sb-126m1
53-I -129
Radionuclide Production Cross Section
To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.427 MeV
JEFF3.3 Threshold 16.418 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
50
40
30
20
10
0
10^{8}
10^{4}
2
3
4
5
6
7
8
9
10^{8}
2
85
Incident Energy (eV)
53-I -129


MAT 5331
(n,p) t:51-Sb-126m2
53-I -129
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.450 MeV
JEFF3.3 Threshold 16.441 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
20
15
10
5
0
10^{9}
10^{6}
10^{3}
2
3
4
5
6
7
8
9
10^{8}
2
86
Incident Energy (eV)
53-I -129