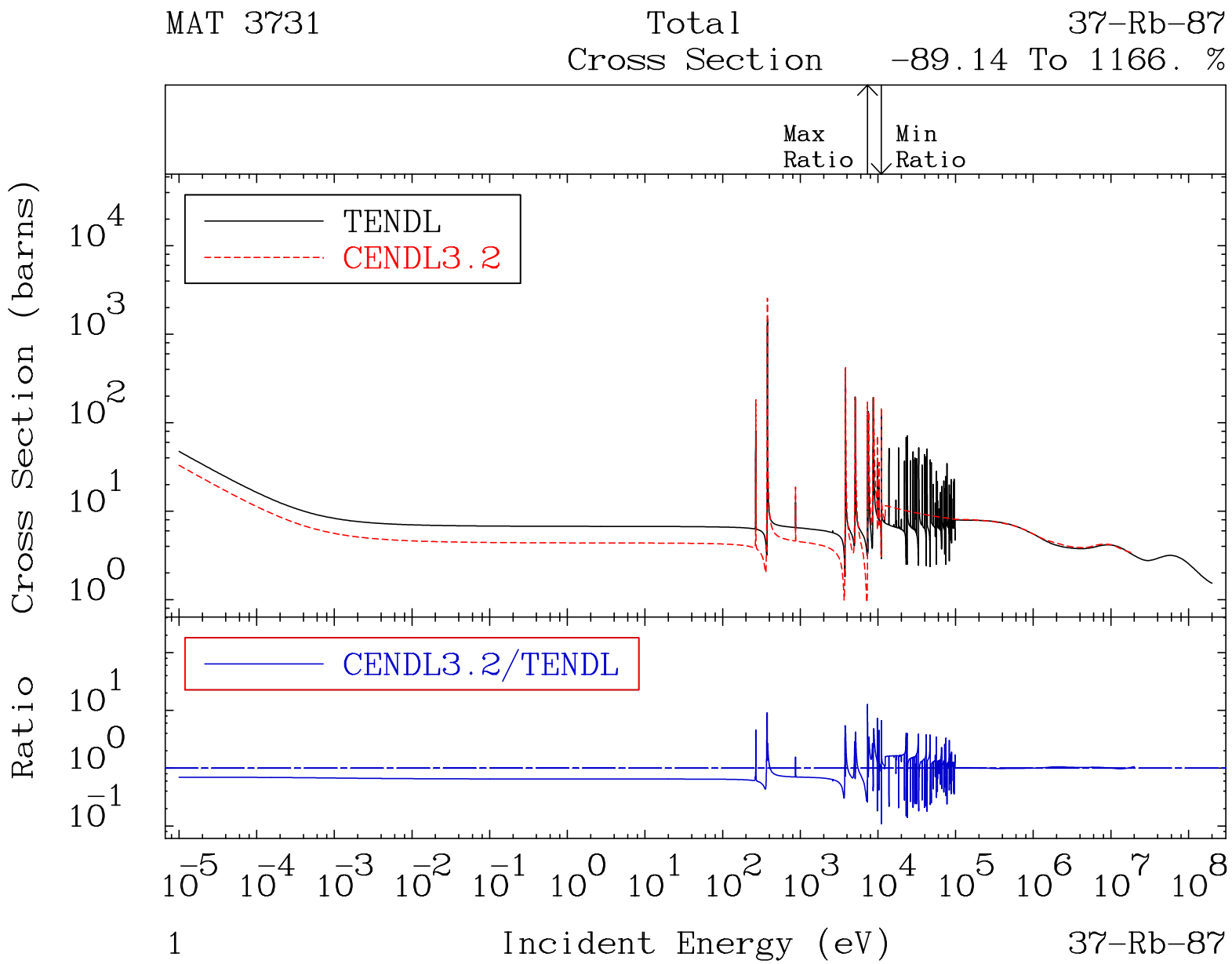
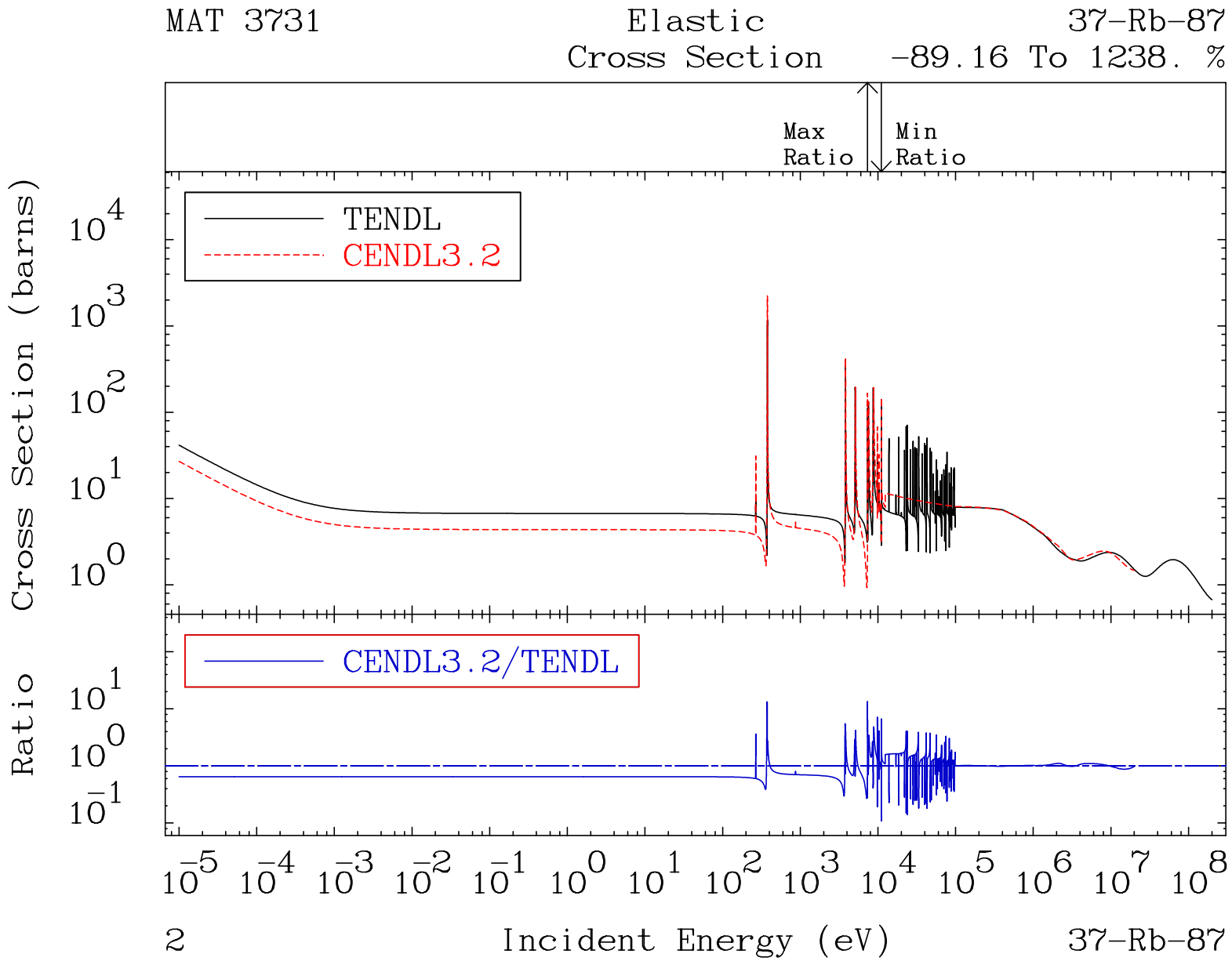
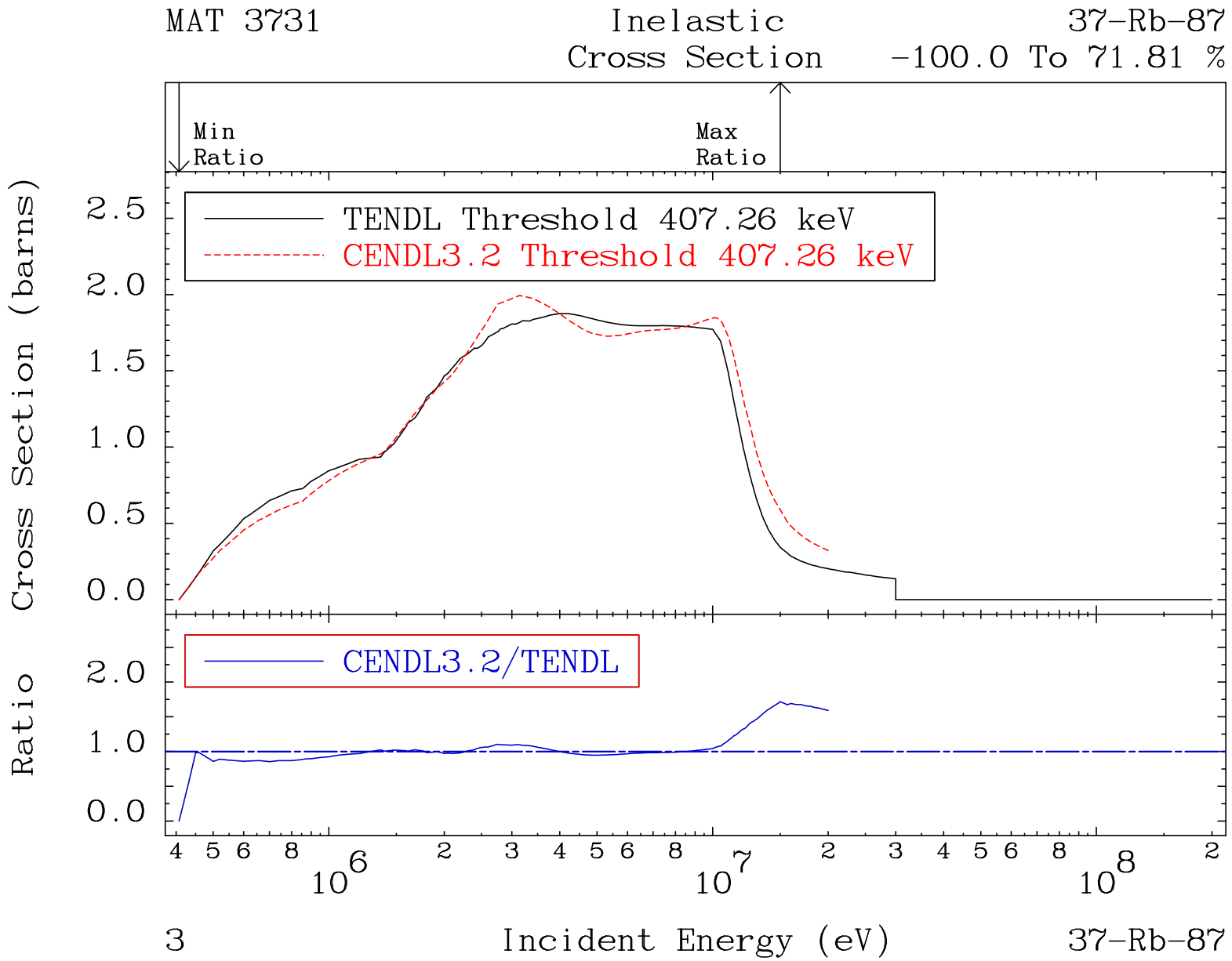
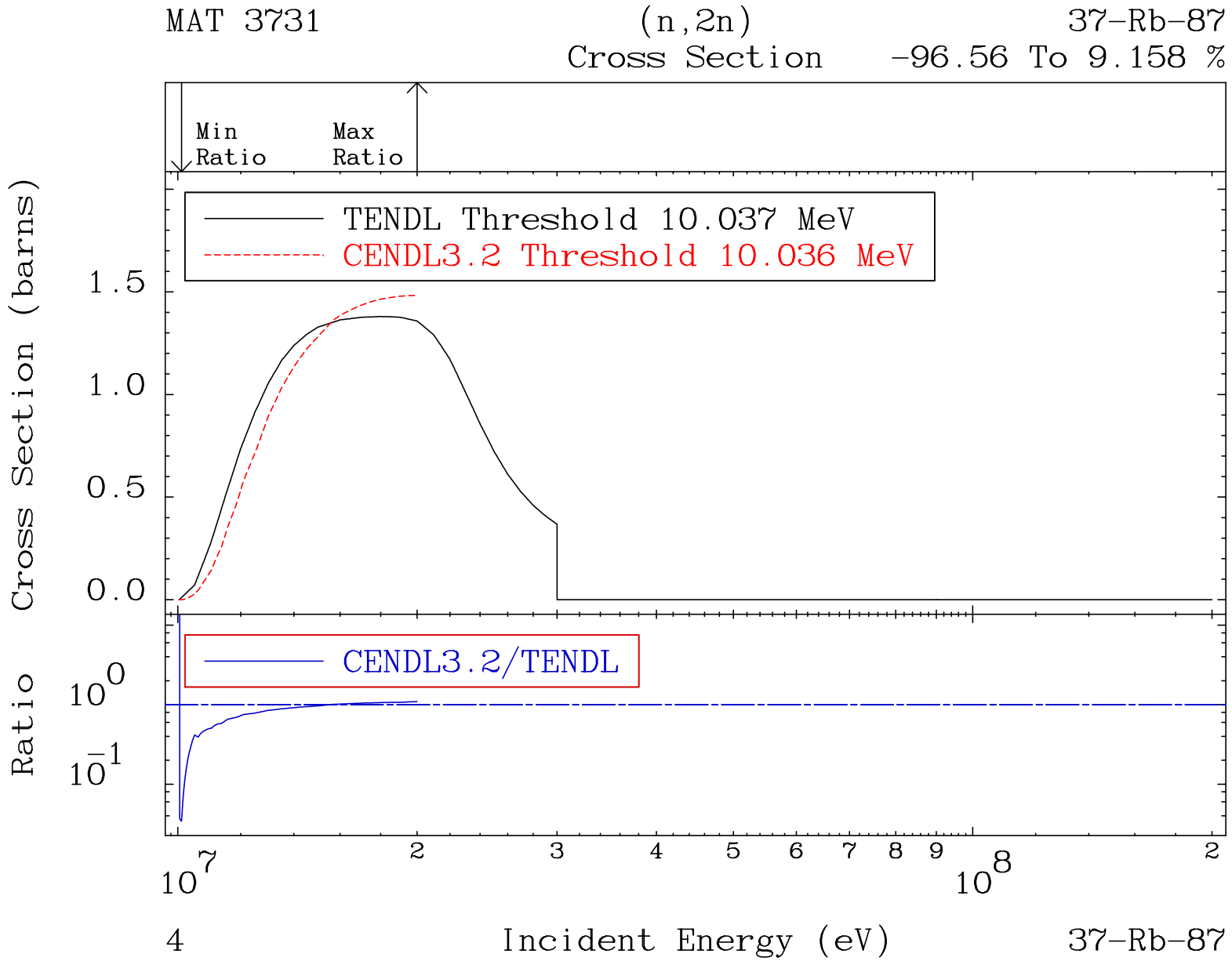
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

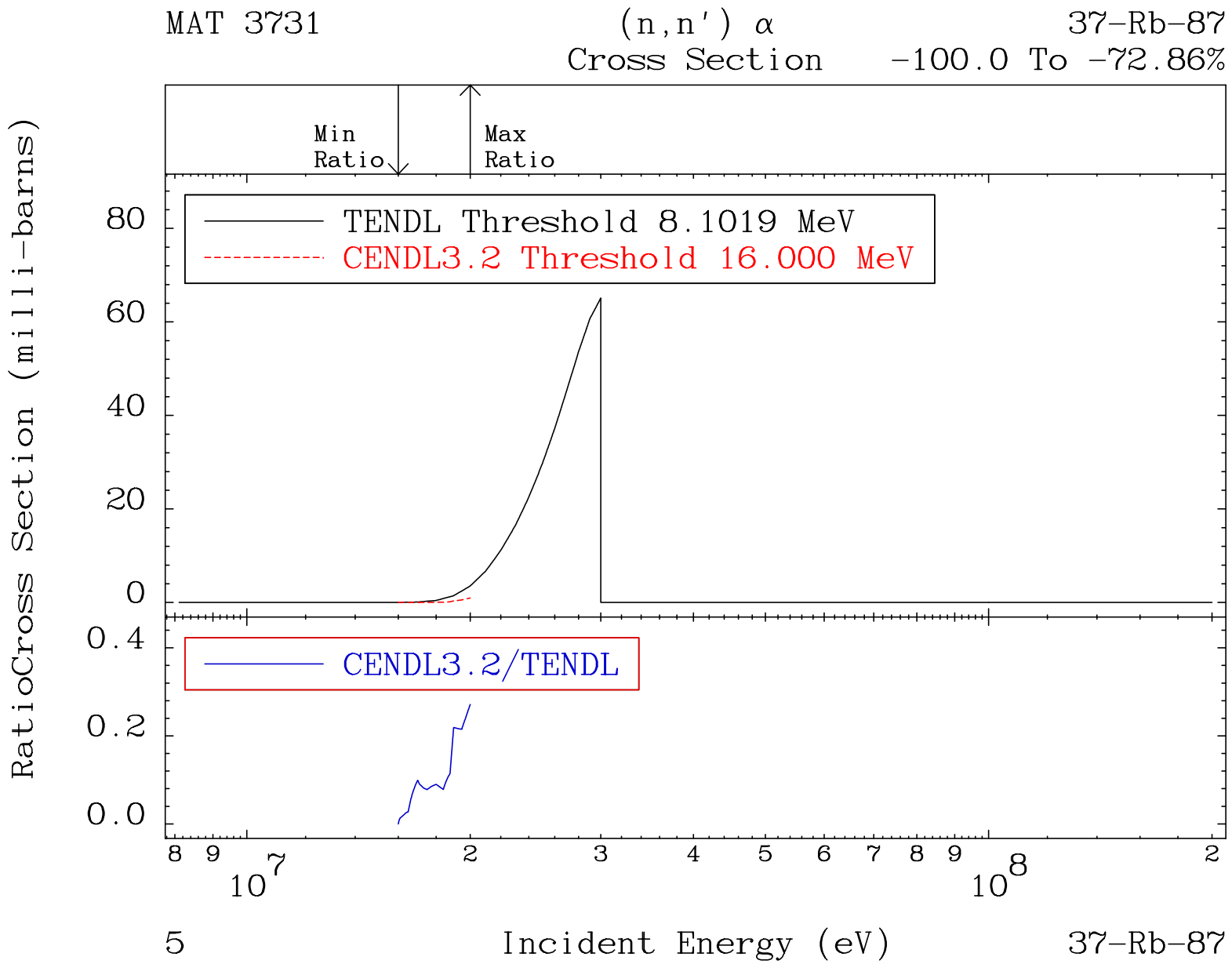
Press Mouse Button to Start

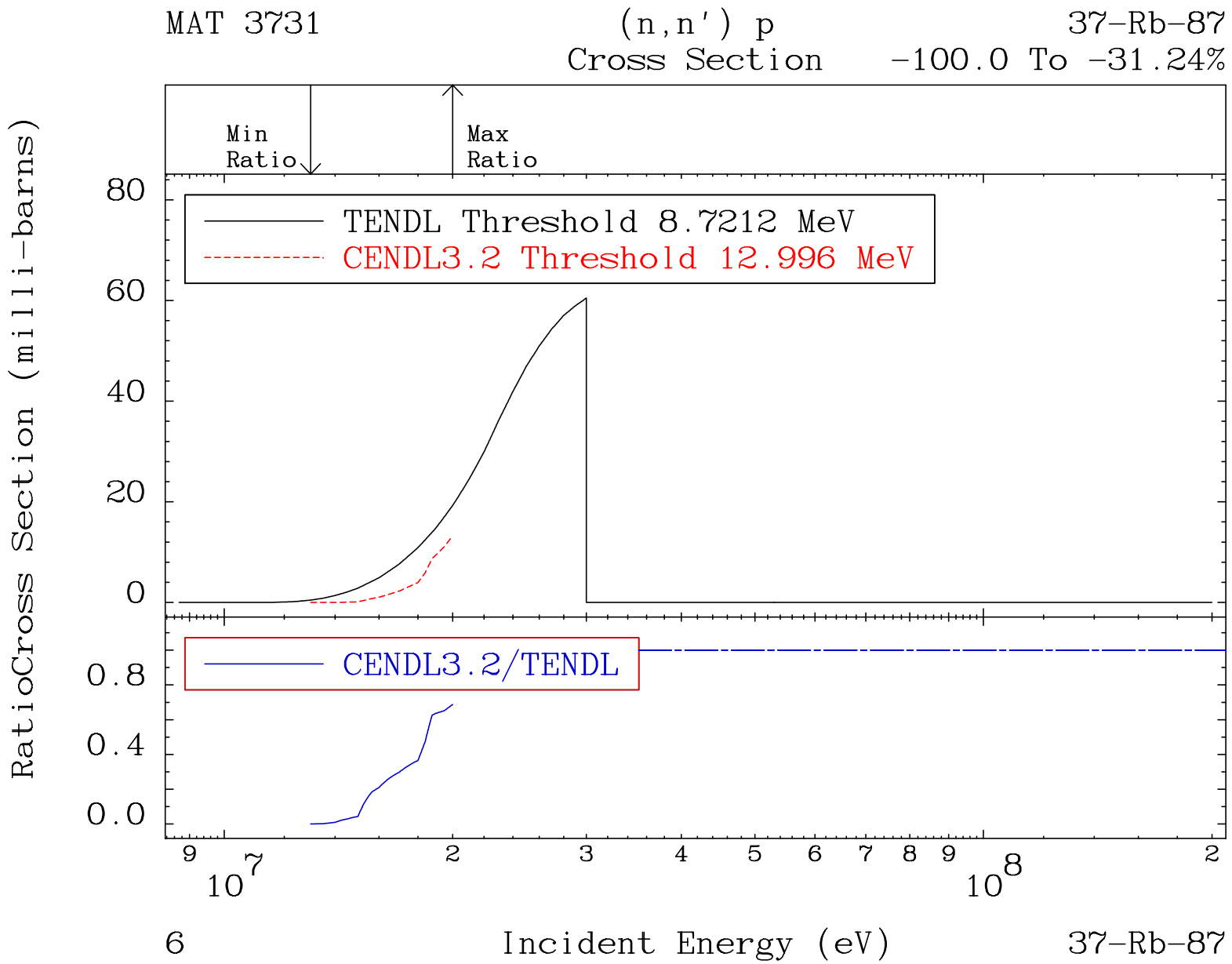

MAT 3731
Total
Cross Section
37-Rb-87
-89.14 To 1166. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37-Rb-87
1

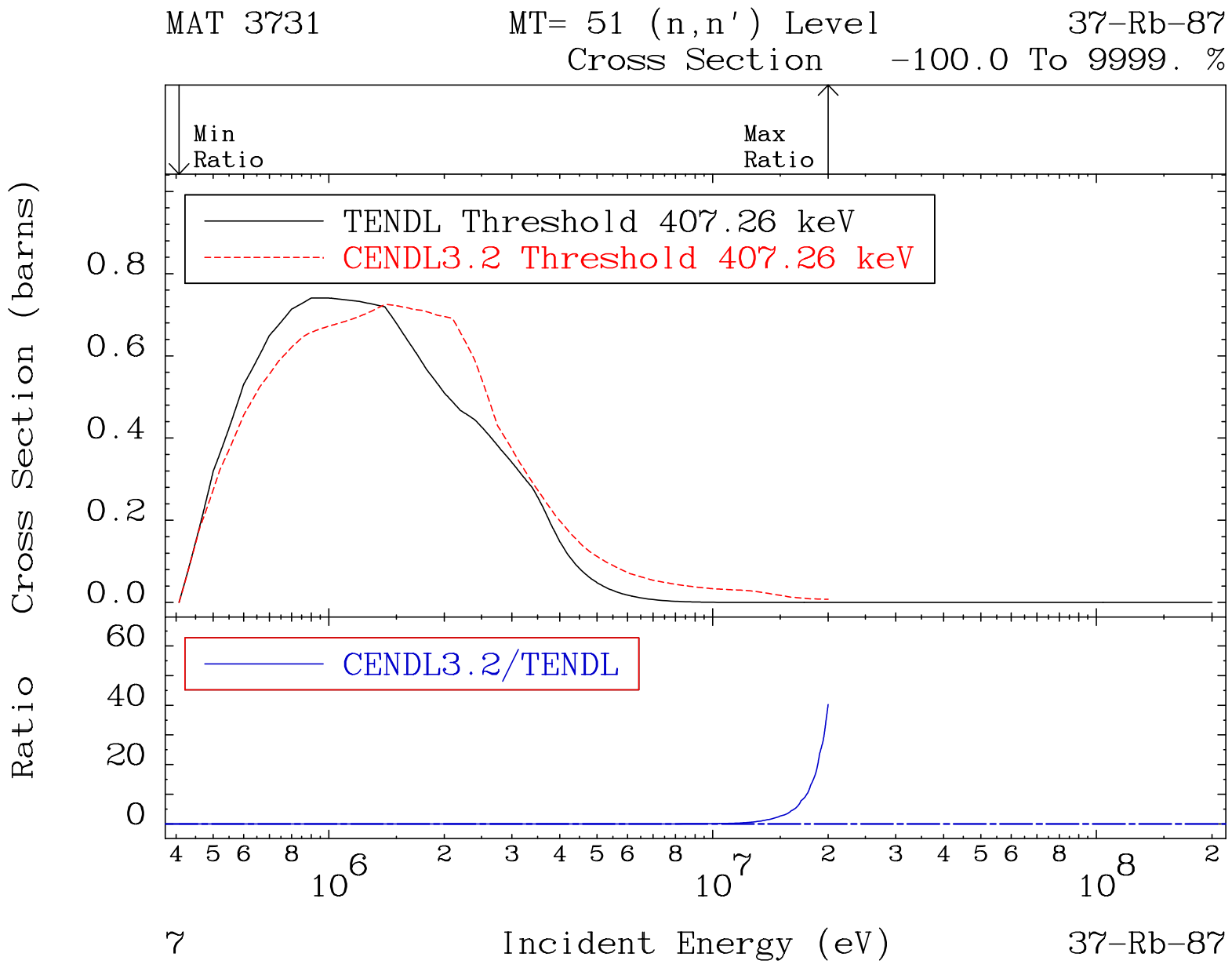

MAT 3731
Elastic
Cross Section
37-Rb-87
-89.16 To 1238. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
37-Rb-87

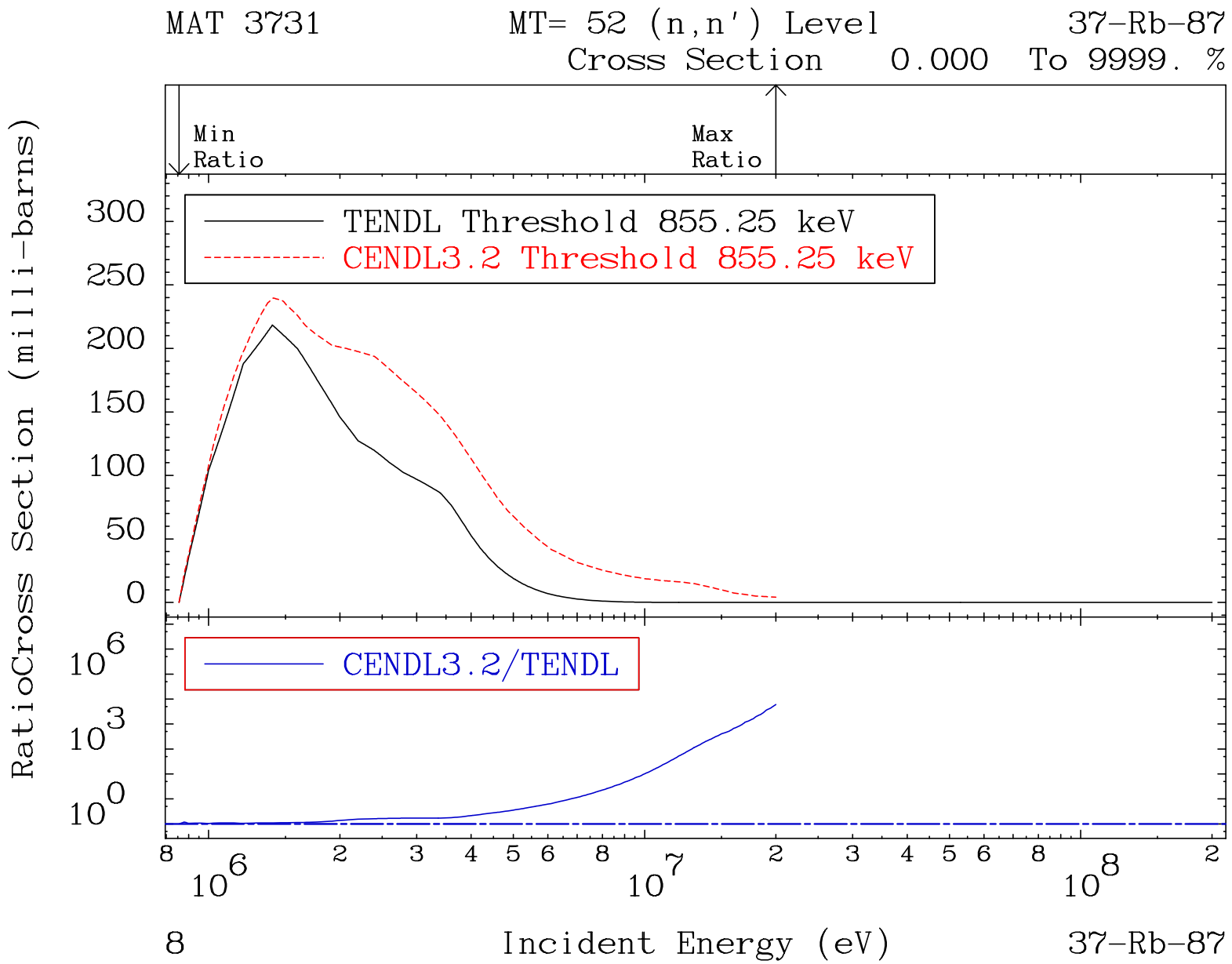

MAT 3731
Inelastic
Cross Section
37-Rb-87
-100.0 To 71.81 %
Min
Ratio
Max
Ratio
TENDL Threshold 407.26 keV
CENDL3.2 Threshold 407.26 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
37-Rb-87

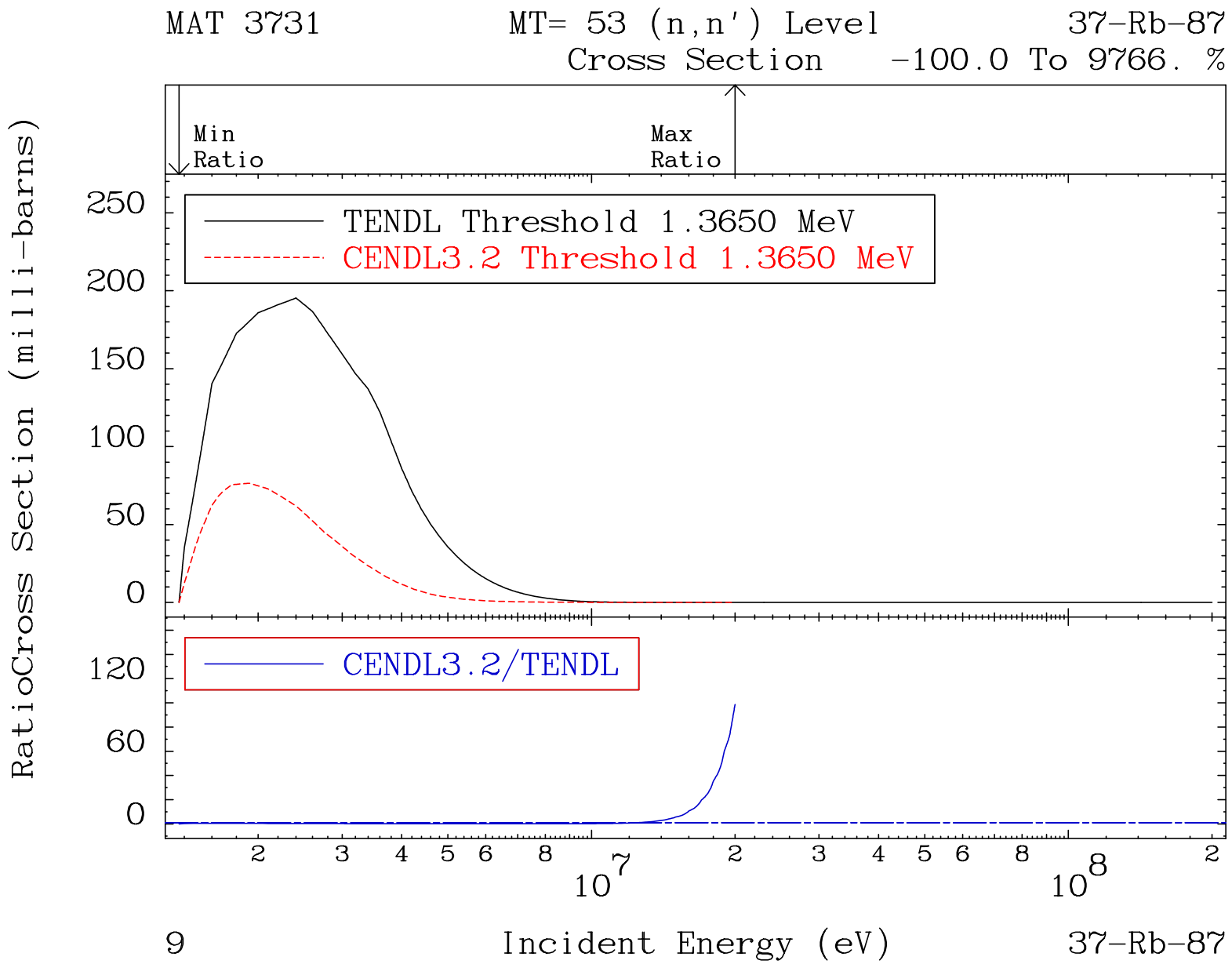

MAT 3731
(n,2n)
Cross Section
37-Rb-87
-96.56 To 9.158 %
Min Ratio
Max Ratio
TENDL Threshold 10.037 MeV
CENDL3.2 Threshold 10.036 MeV
1.5
1.0
0.5
0.0
Cross Section (barns)
CENDL3.2/TENDL
Ratio
10^0
10^-1
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
37-Rb-87

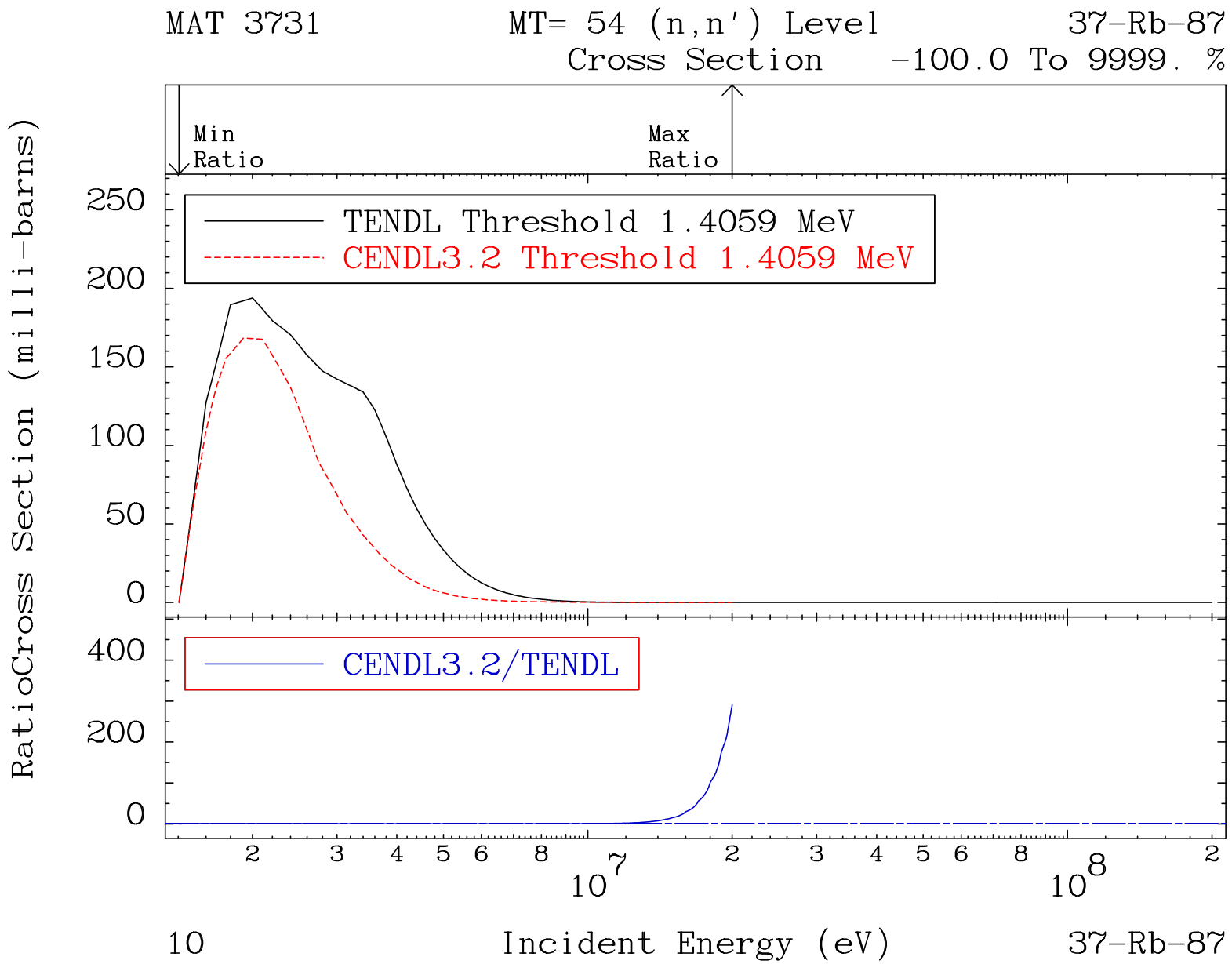

MAT 3731
(n,n') α
Cross Section
37-Rb-87
-100.0 To -72.86%
Min Ratio
Max Ratio
TENDL Threshold 8.1019 MeV
CENDL3.2 Threshold 16.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
0.4
0.2
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
37-Rb-87

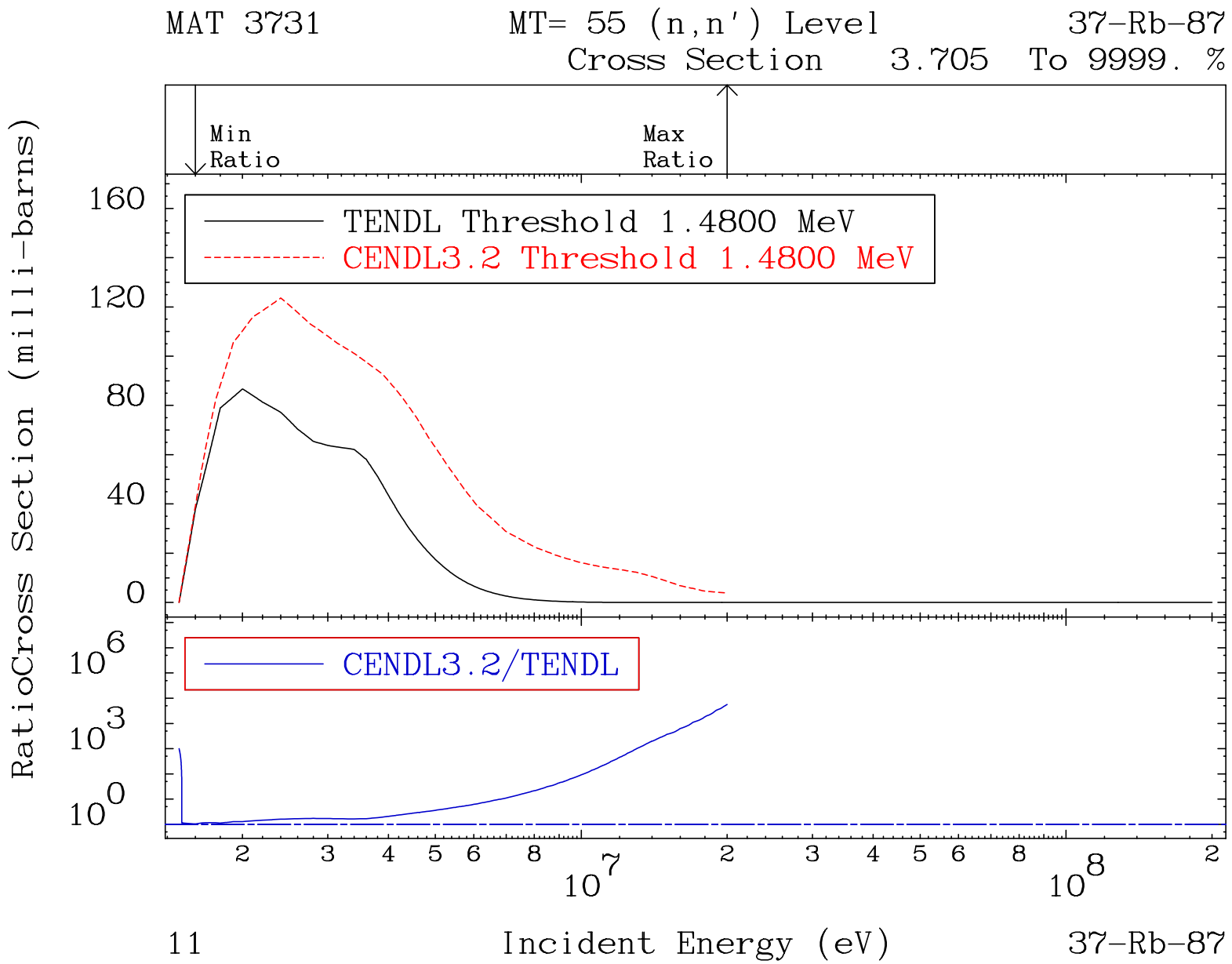

MAT 3731
(n,n') p
Cross Section
37-Rb-87
-100.0 To -31.24%
Min Ratio
Max Ratio
TENDL Threshold 8.7212 MeV
CENDL3.2 Threshold 12.996 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
0.8
0.4
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
6
37-Rb-87

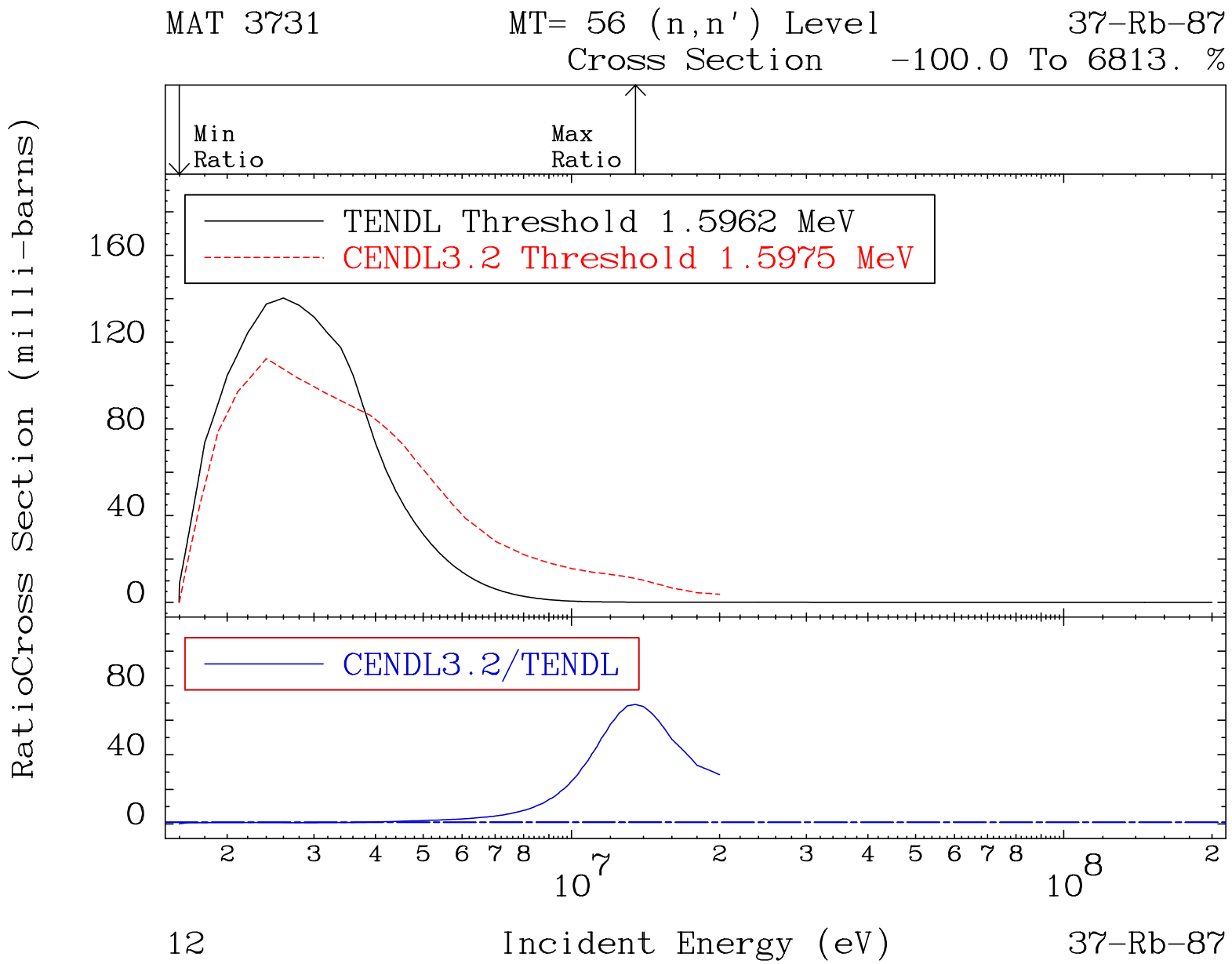

MAT 3731
MT= 51 (n,n') Level
37-Rb-87
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 407.26 keV
CENDL3.2 Threshold 407.26 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
0.8
0.6
0.4
0.2
0.0
60
40
20
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
7
Incident Energy (eV)
37-Rb-87

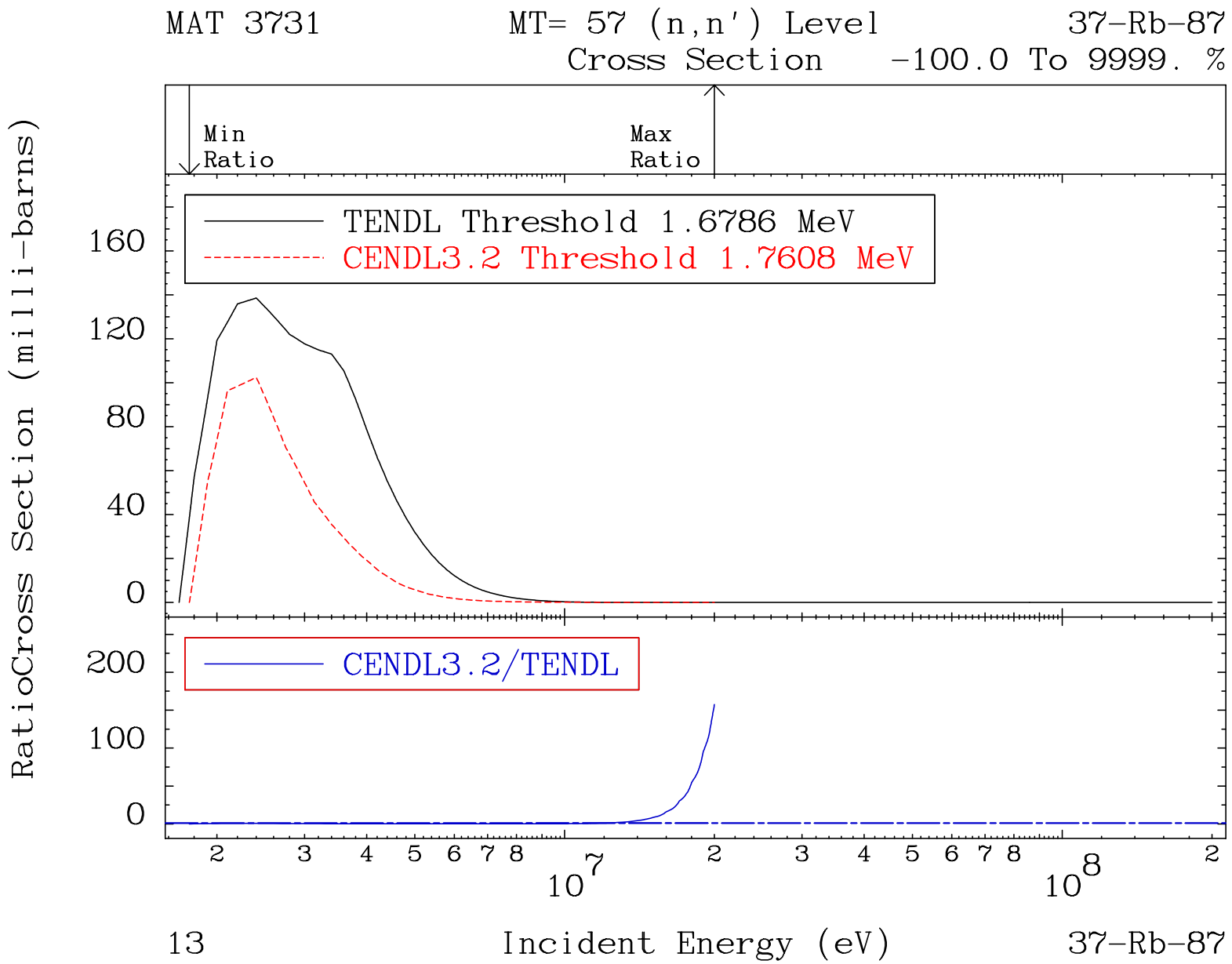

MAT 3731
MT= 52 (n,n') Level
37-Rb-87
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 855.25 keV
CENDL3.2 Threshold 855.25 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^6
10^3
10^0
8
2
3
4
5
6
8
10^6
10^7
10^8
Incident Energy (eV)
37-Rb-87

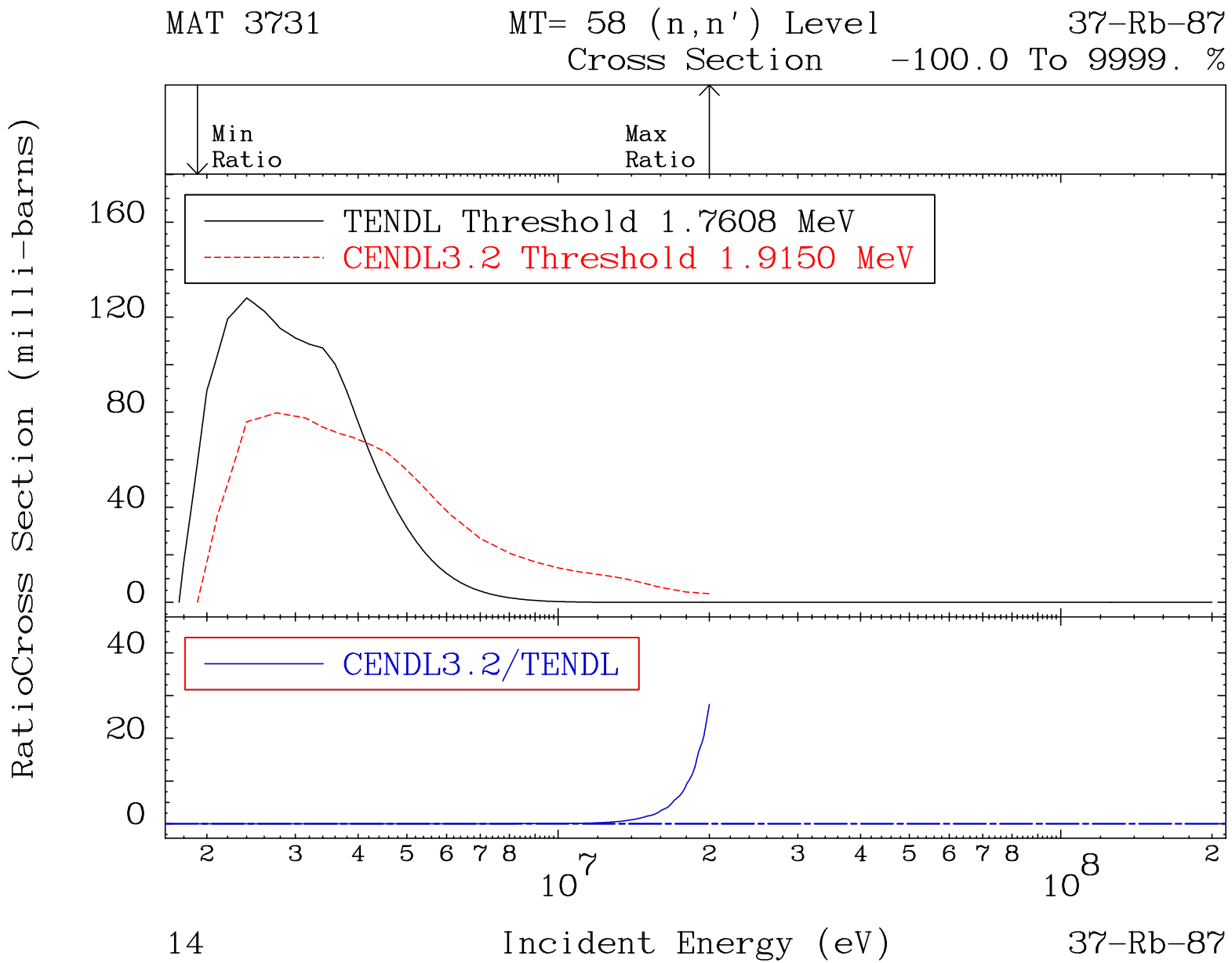

MAT 3731
MT= 53 (n,n') Level
37-Rb-87
Cross Section -100.0 To 9766. %
Min Ratio
Max Ratio
TENDL Threshold 1.3650 MeV
CENDL3.2 Threshold 1.3650 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
120
60
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
9
37-Rb-87

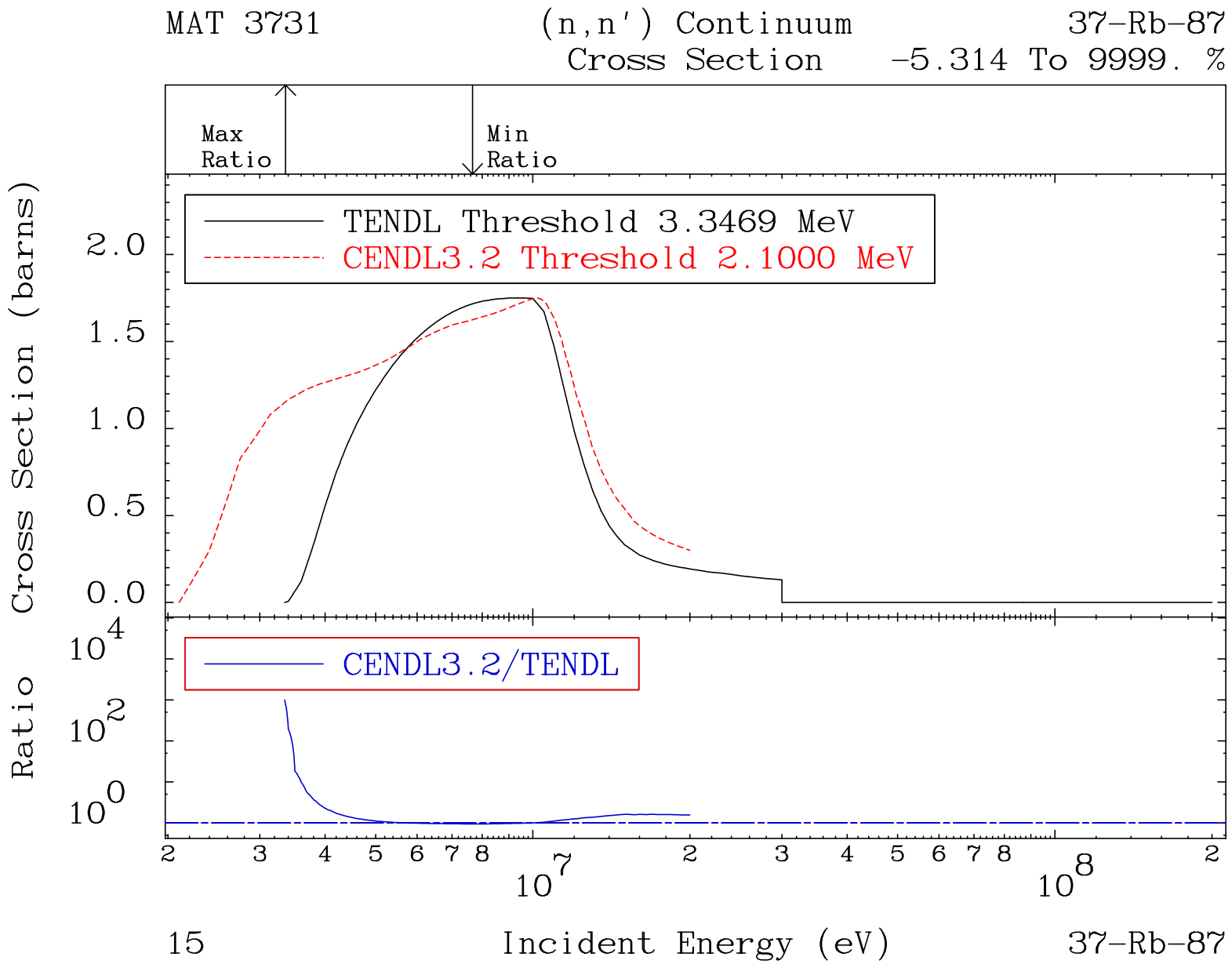

MAT 3731
MT= 54 (n,n') Level
37-Rb-87
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4059 MeV
CENDL3.2 Threshold 1.4059 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
400
200
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
37-Rb-87

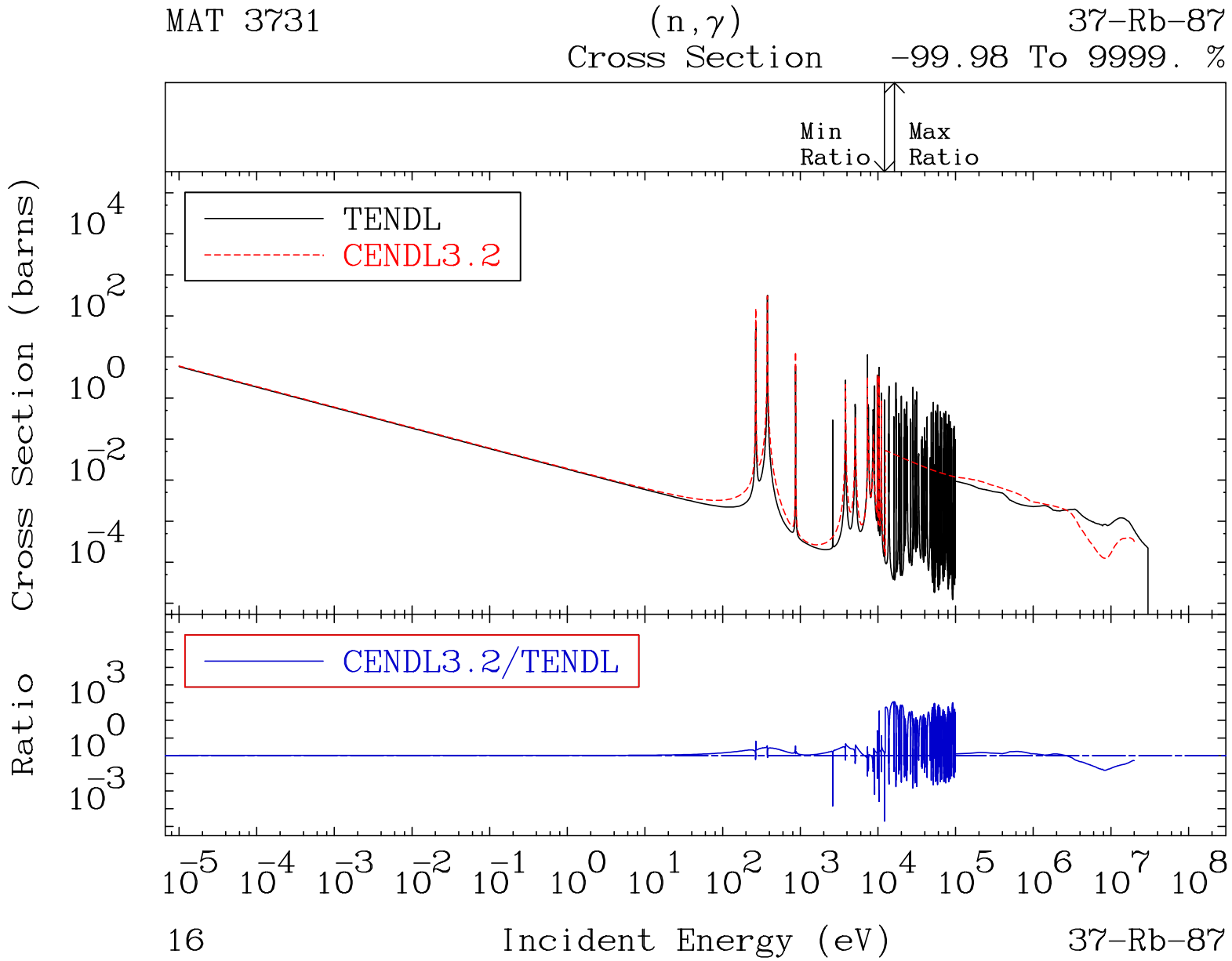

MAT 3731
MT= 55 (n,n') Level
37-Rb-87
Cross Section 3.705 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4800 MeV
CENDL3.2 Threshold 1.4800 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
37-Rb-87

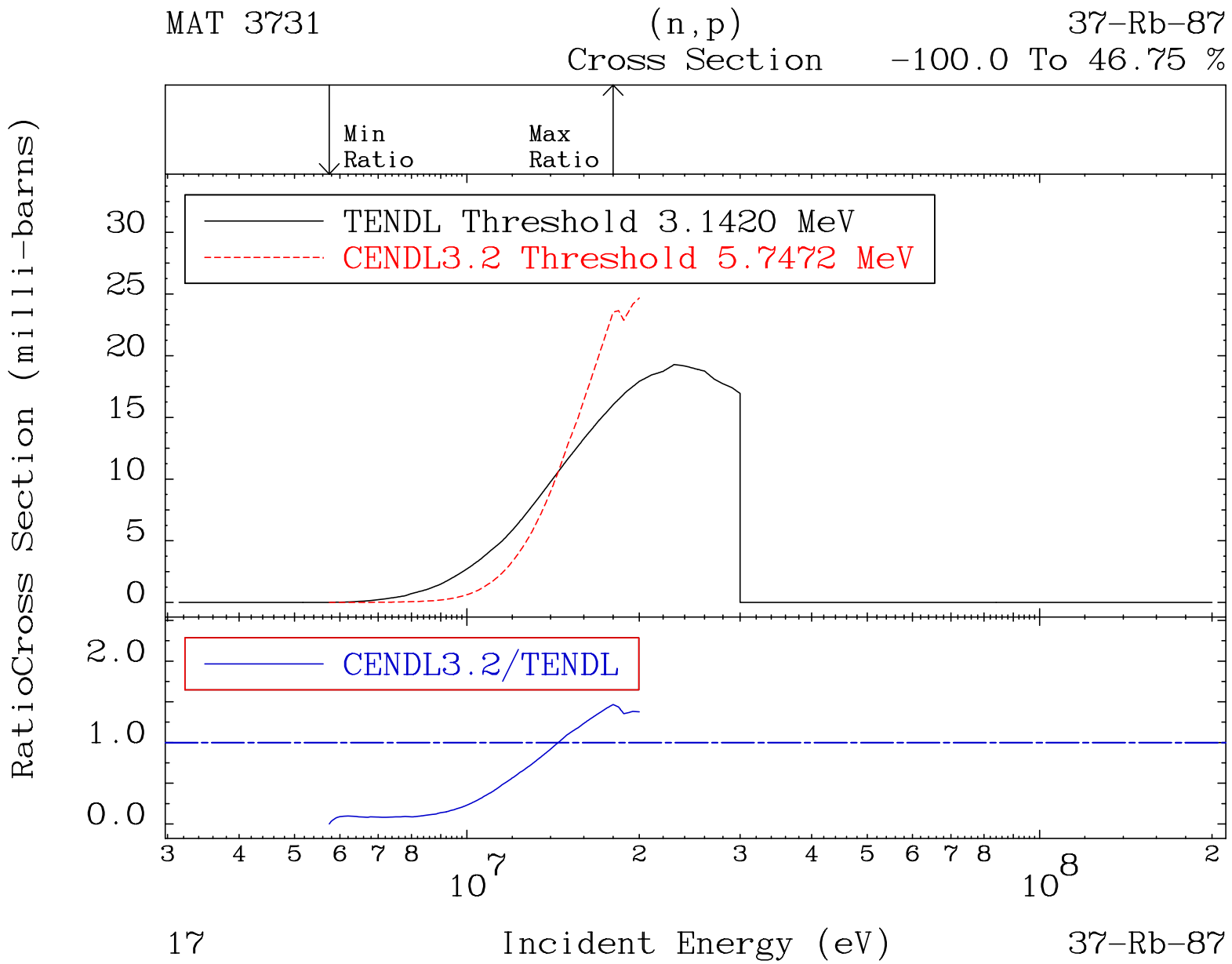

MAT 3731
MT= 56 (n,n') Level
37-Rb-87
Cross Section -100.0 To 6813. %
Min Ratio
Max Ratio
TENDL Threshold 1.5962 MeV
CENDL3.2 Threshold 1.5975 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
37-Rb-87

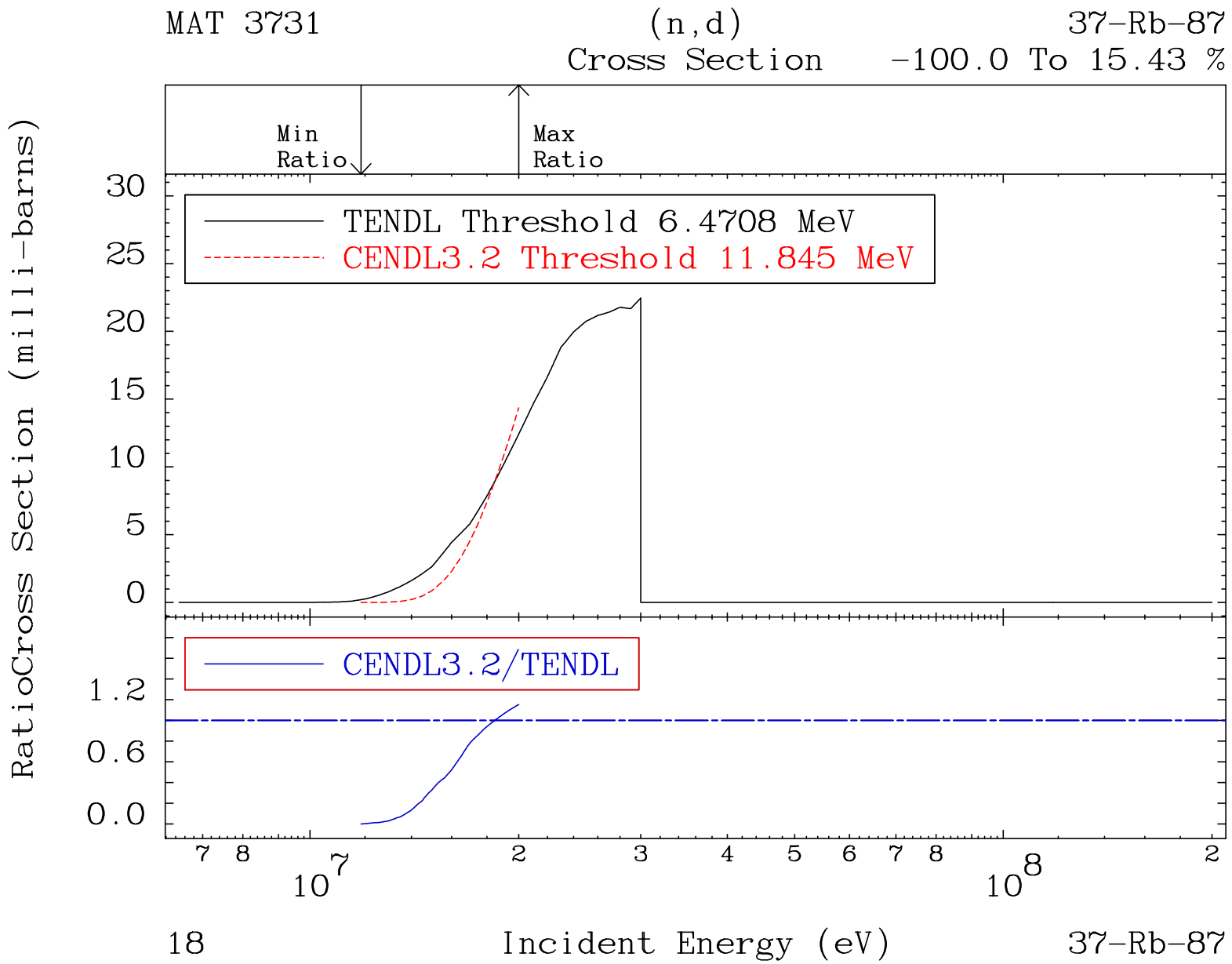

MAT 3731
MT= 57 (n,n') Level
37-Rb-87
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6786 MeV
CENDL3.2 Threshold 1.7608 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
200
100
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
37-Rb-87

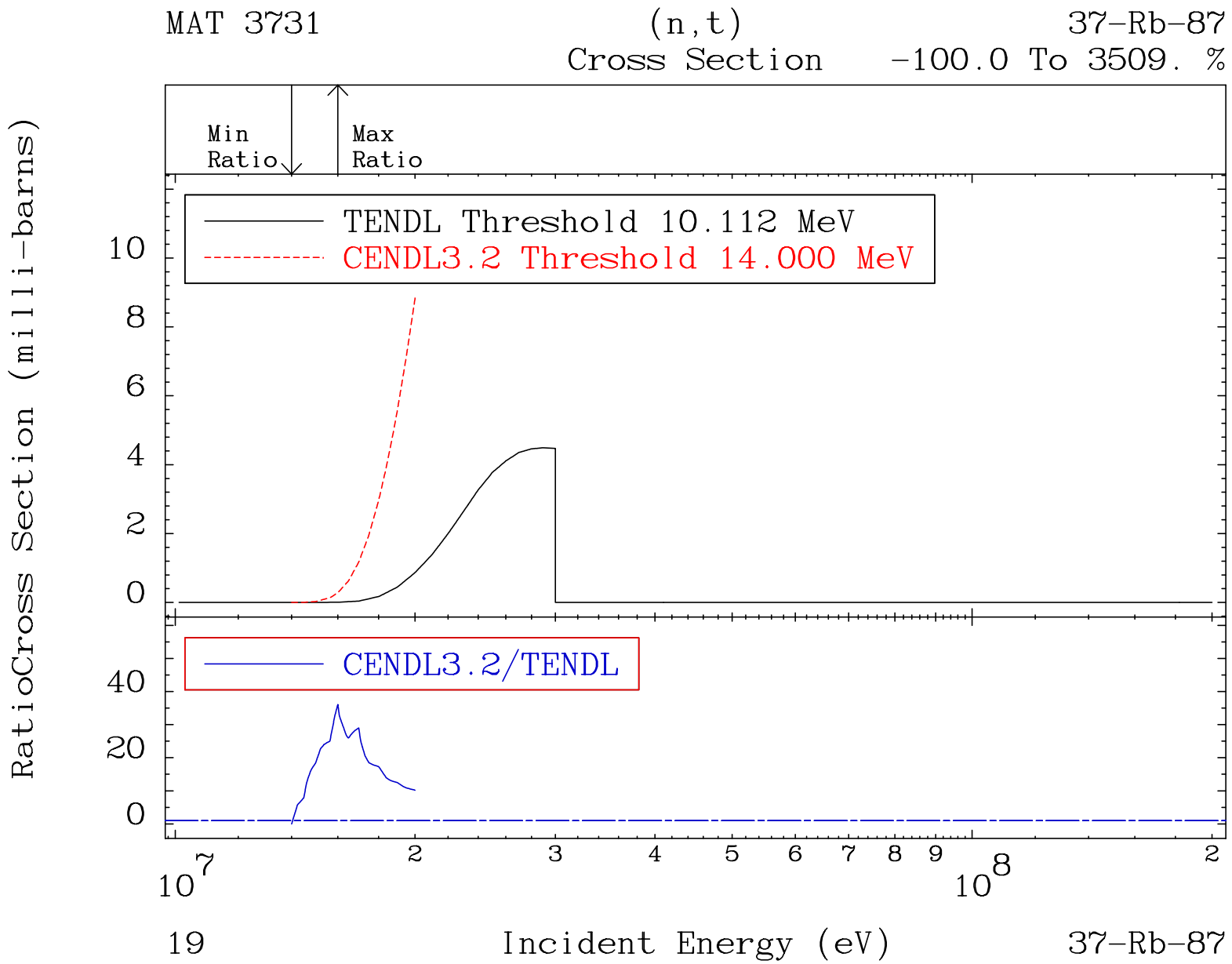

MAT 3731
MT= 58 (n,n') Level
37-Rb-87
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7608 MeV
CENDL3.2 Threshold 1.9150 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
40
20
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
37-Rb-87

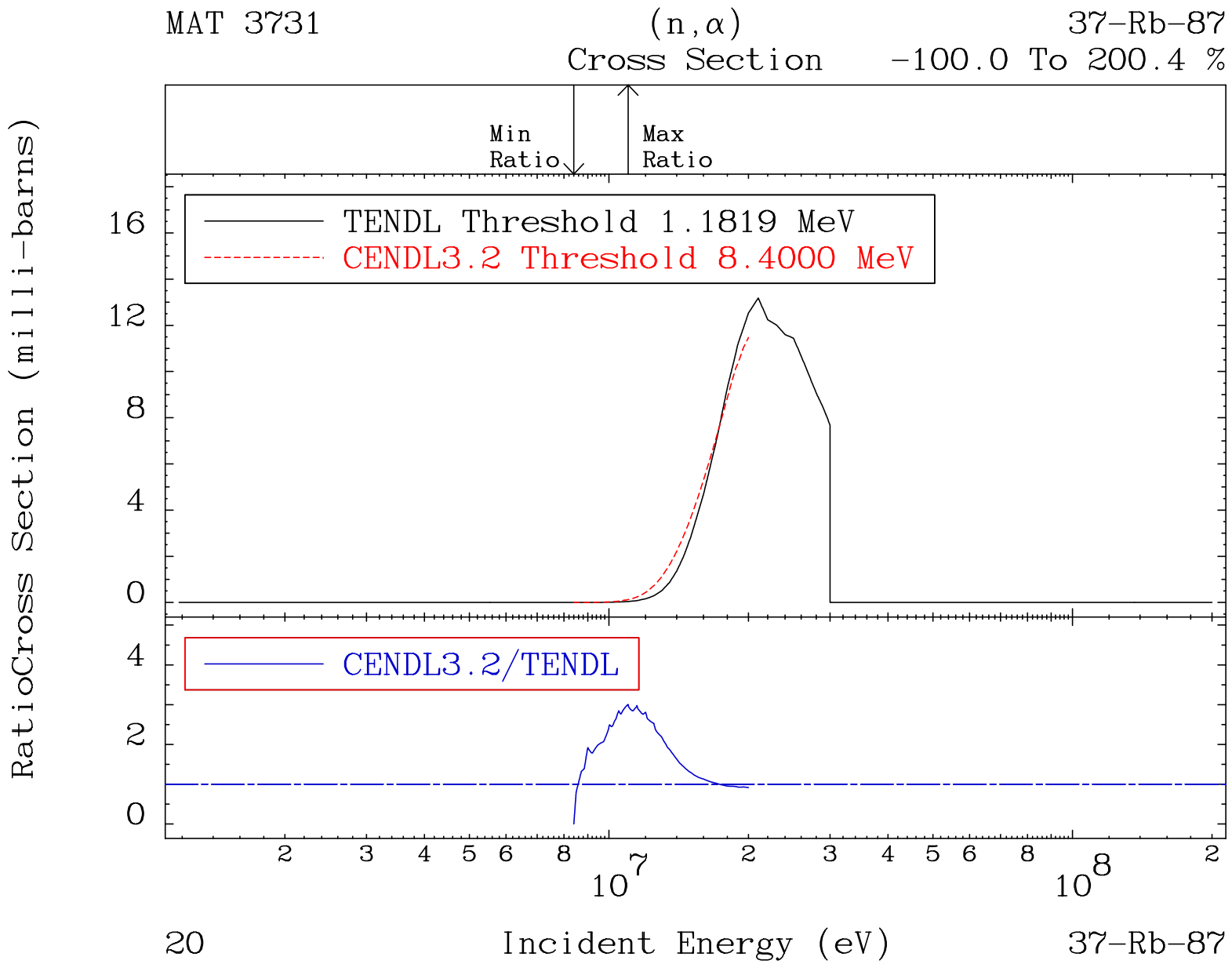

MAT 3731
(n,n') Continuum
Cross Section
37-Rb-87
-5.314 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3469 MeV
CENDL3.2 Threshold 2.1000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
37-Rb-87

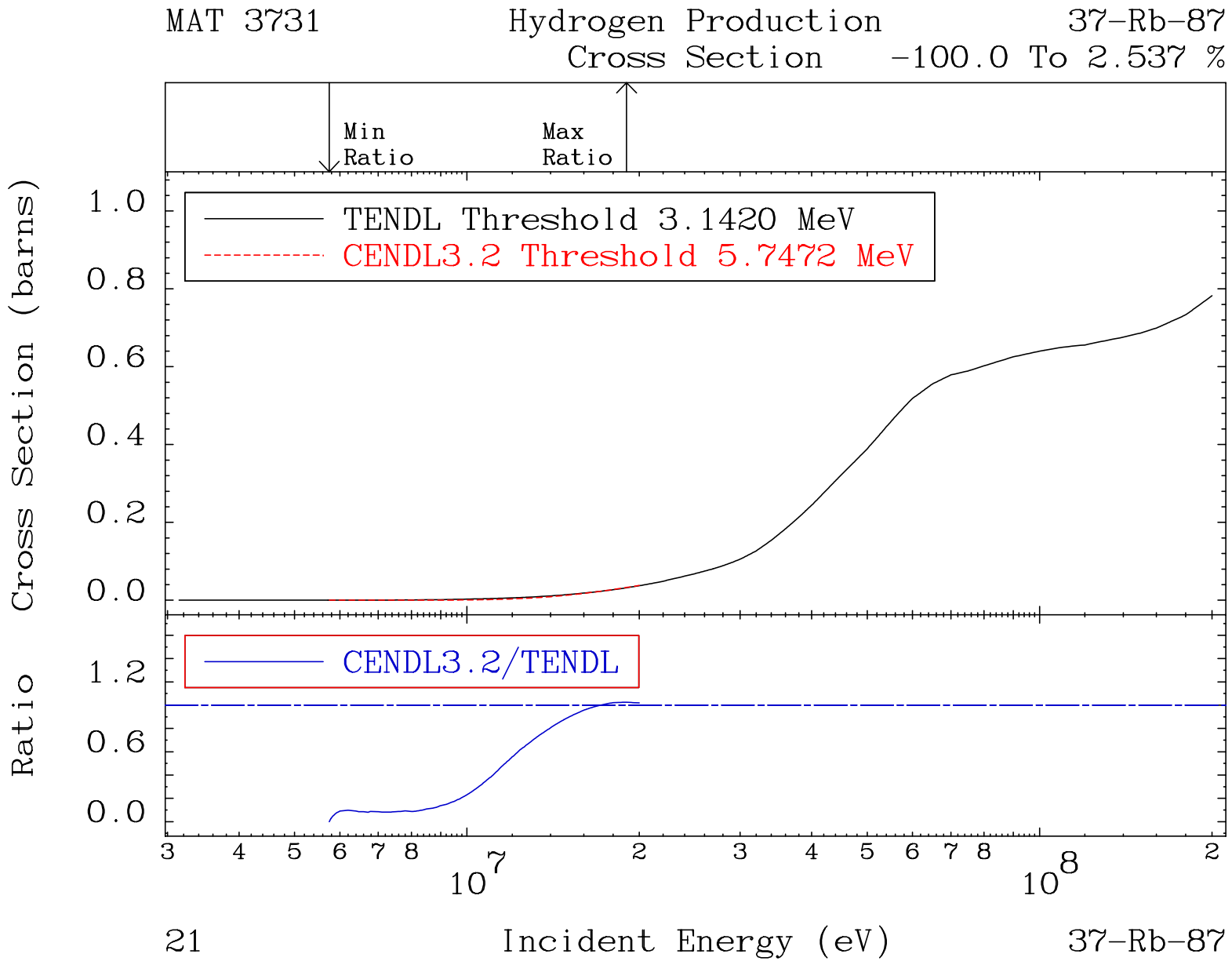

MAT 3731
(n,γ)
37-Rb-87
Cross Section
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
16
37-Rb-87

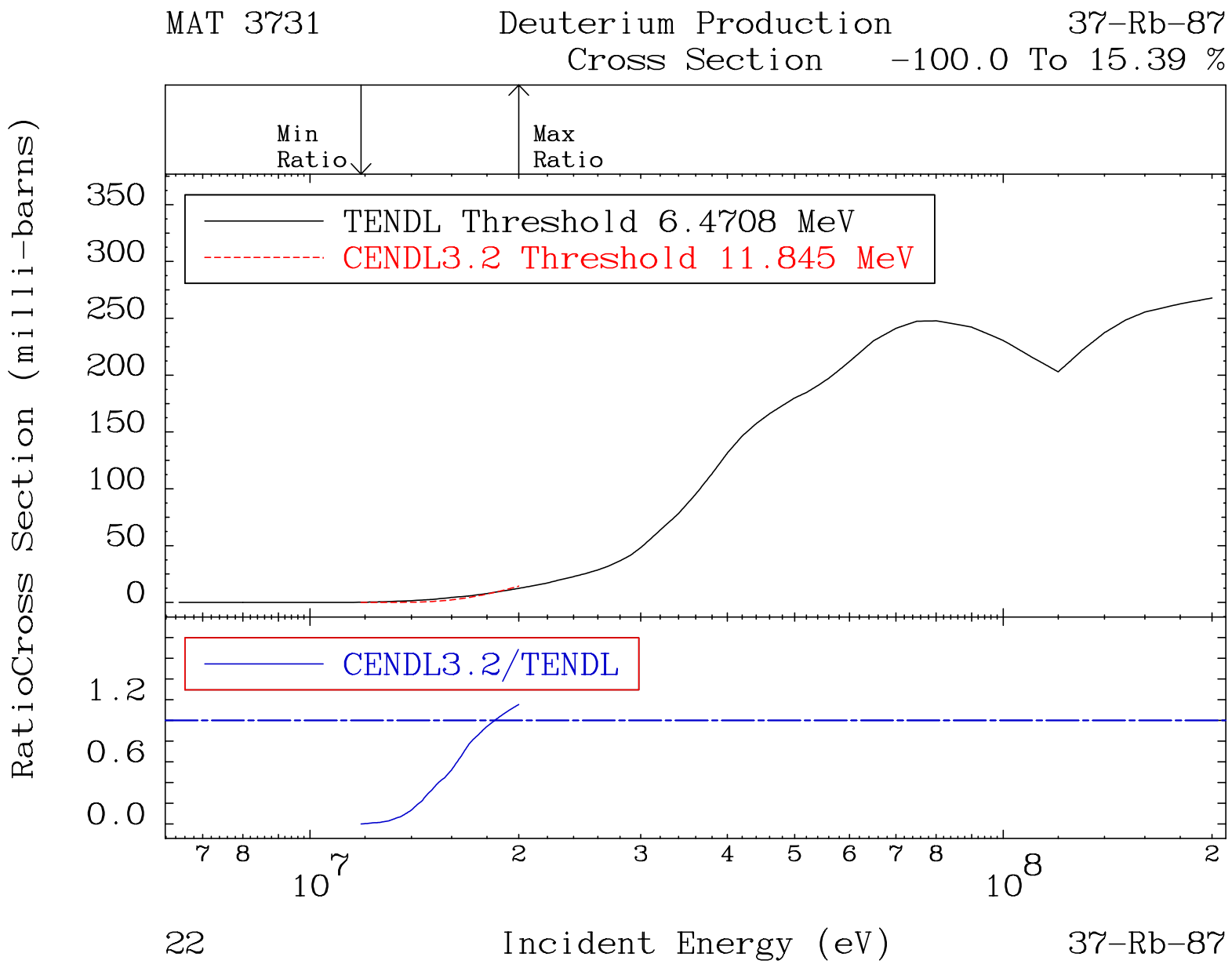

MAT 3731
(n,p)
Cross Section
37-Rb-87
-100.0 To 46.75 %
Min Ratio
Max Ratio
TENDL Threshold 3.1420 MeV
CENDL3.2 Threshold 5.7472 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
37-Rb-87

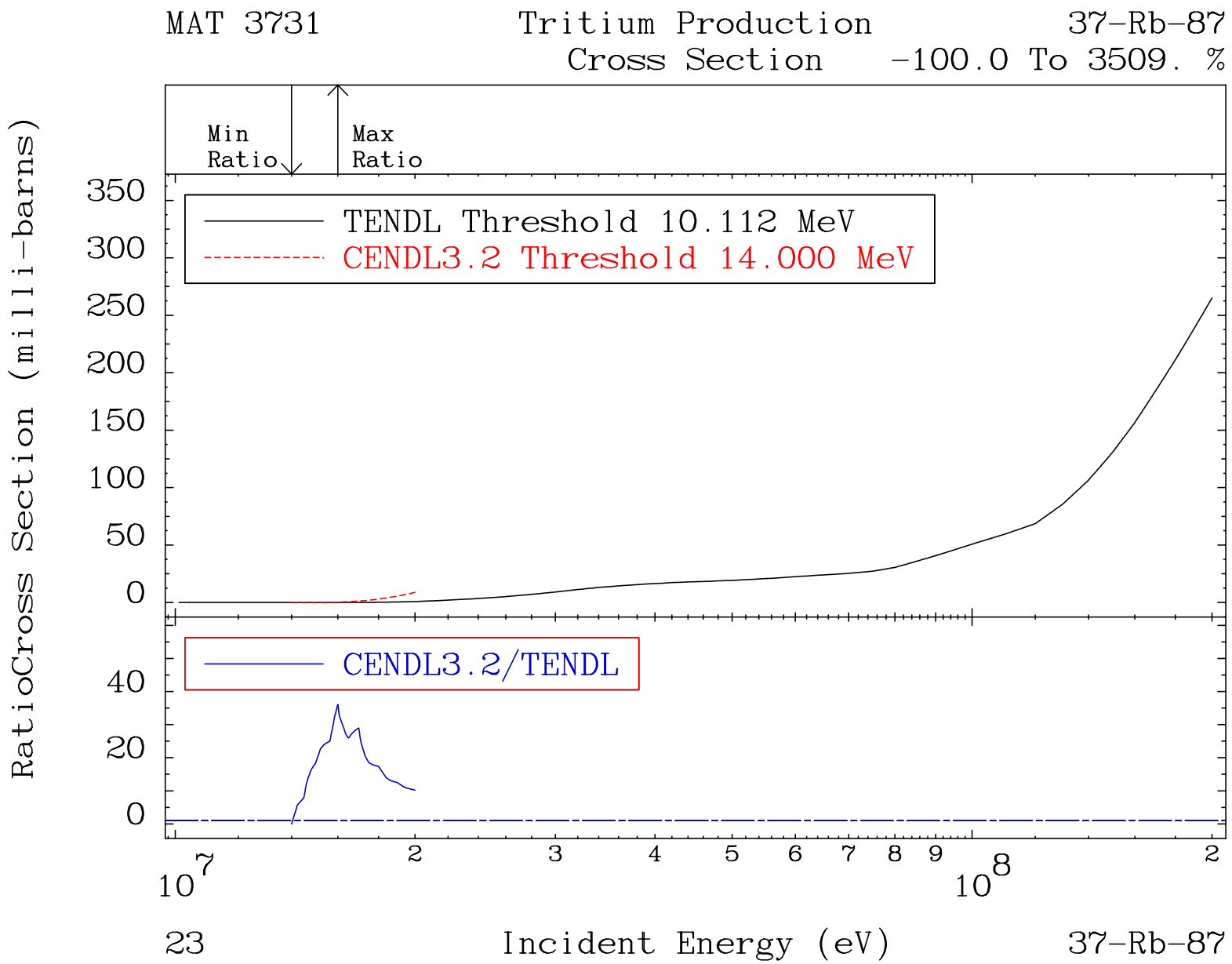

MAT 3731
(n,d)
37-Rb-87
Cross Section
-100.0 To 15.43 %
Min Ratio
Max Ratio
TENDL Threshold 6.4708 MeV
CENDL3.2 Threshold 11.845 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
37-Rb-87

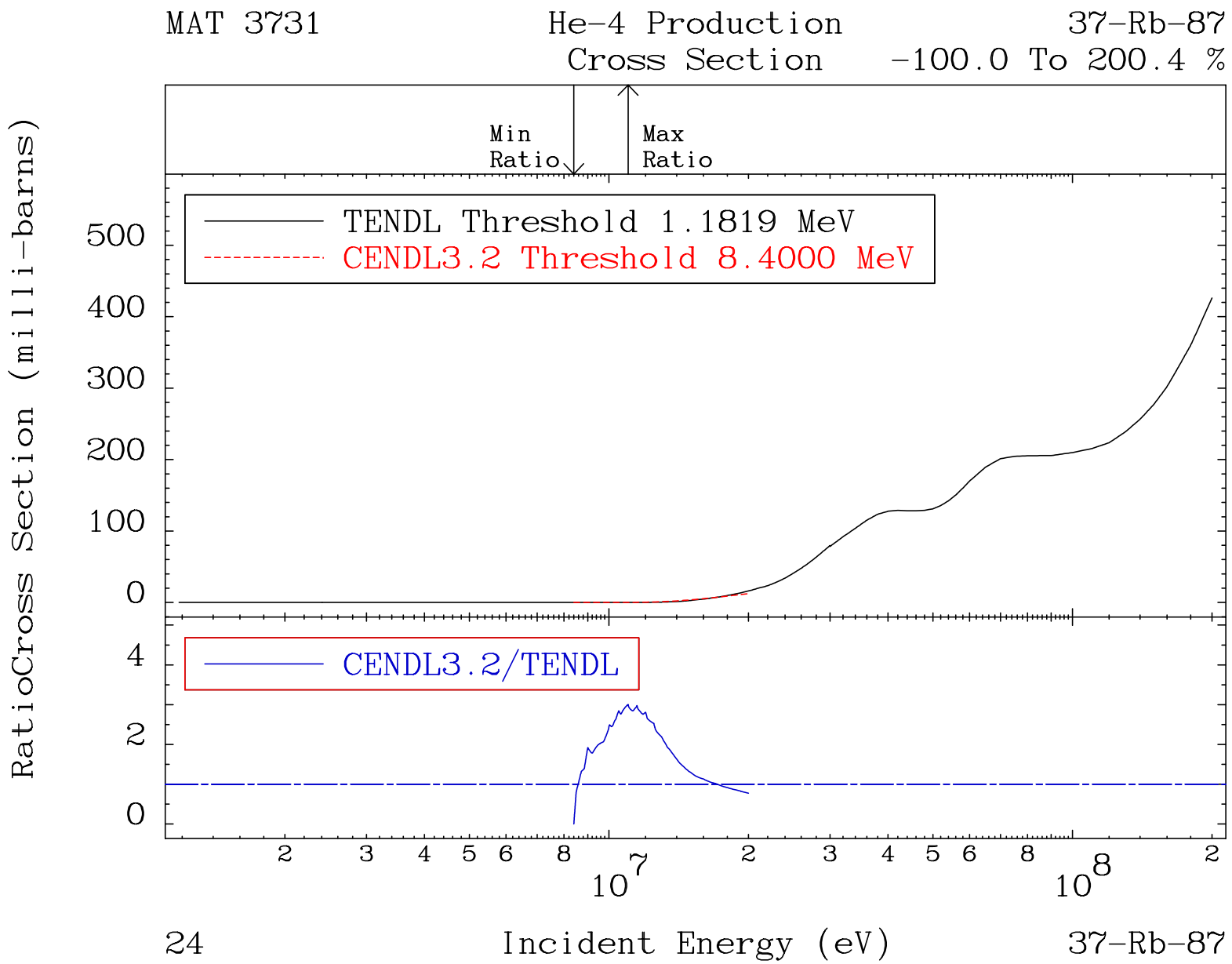

MAT 3731
(n,t)
37-Rb-87
Cross Section
-100.0 To 3509. %
Min Ratio
Max Ratio
TENDL Threshold 10.112 MeV
CENDL3.2 Threshold 14.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
37-Rb-87

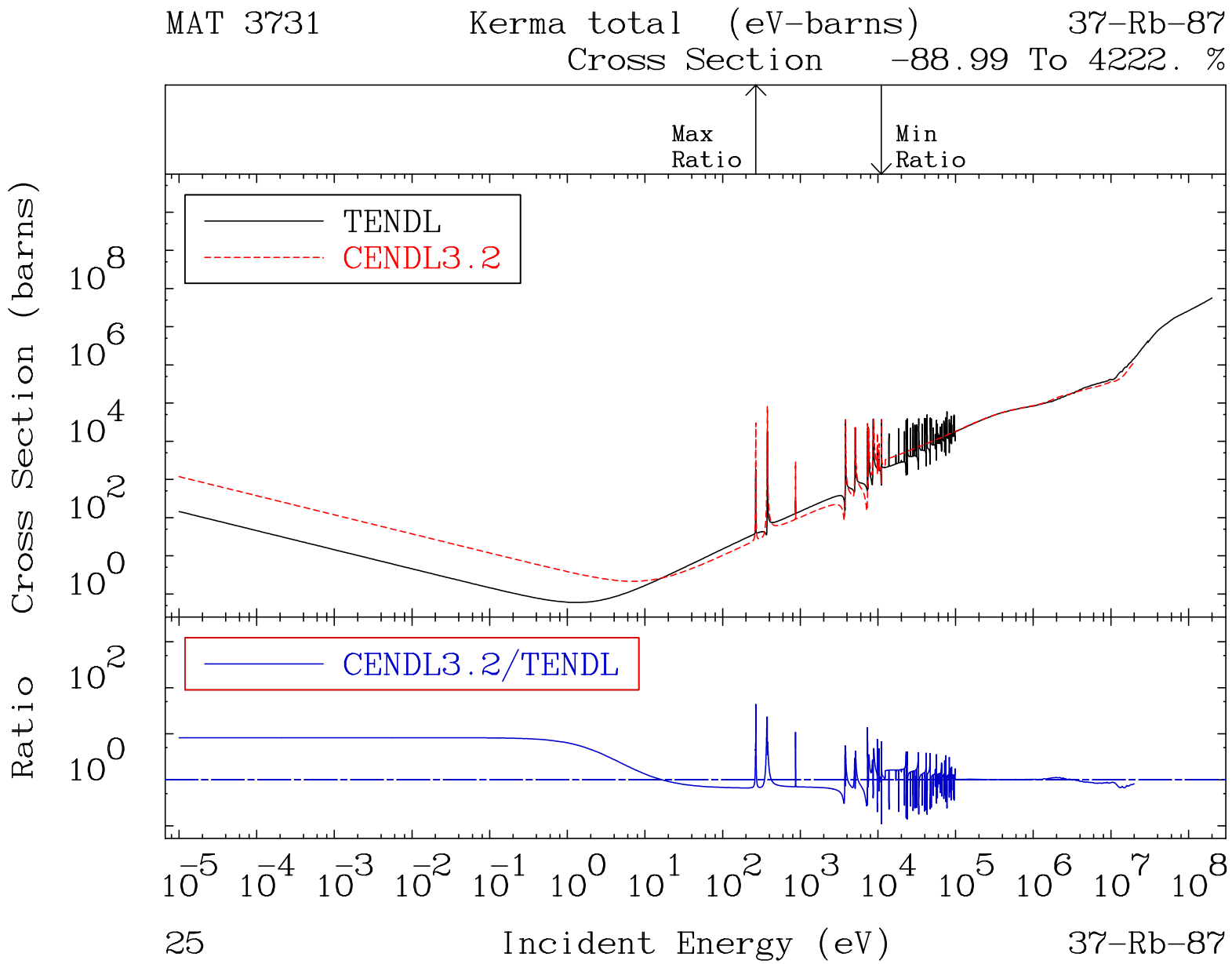

MAT 3731
(n,α)
37-Rb-87
Cross Section
-100.0 To 200.4 %
Min Ratio
Max Ratio
TENDL Threshold 1.1819 MeV
CENDL3.2 Threshold 8.4000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
37-Rb-87

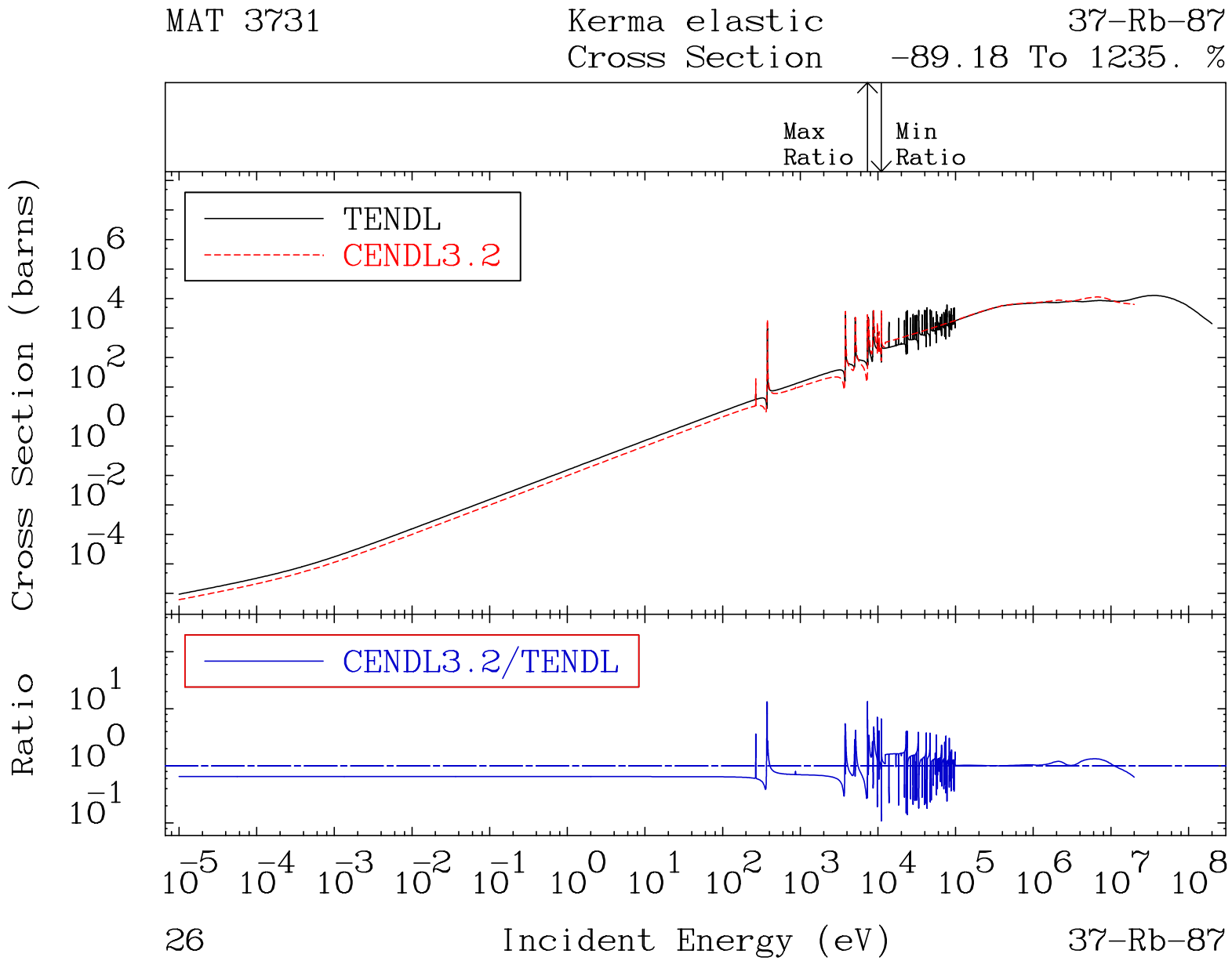

MAT 3731
Hydrogen Production
37-Rb-87
Cross Section
-100.0 To 2.537 %
Min Ratio
Max Ratio
TENDL Threshold 3.1420 MeV
CENDL3.2 Threshold 5.7472 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
37-Rb-87

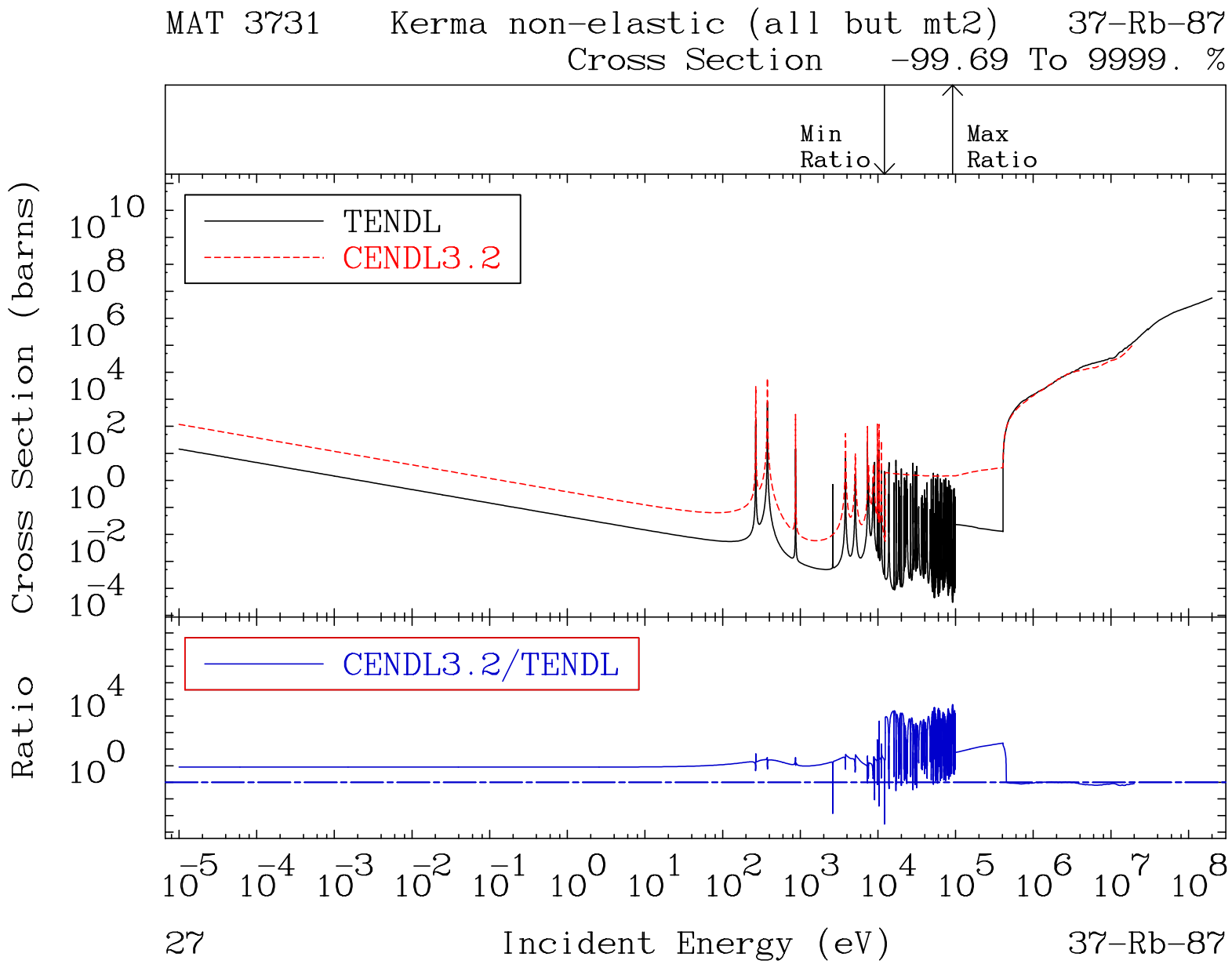

MAT 3731
Deuterium Production
37-Rb-87
Cross Section -100.0 To 15.39 %
Min Ratio
Max Ratio
TENDL Threshold 6.4708 MeV
CENDL3.2 Threshold 11.845 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
37-Rb-87

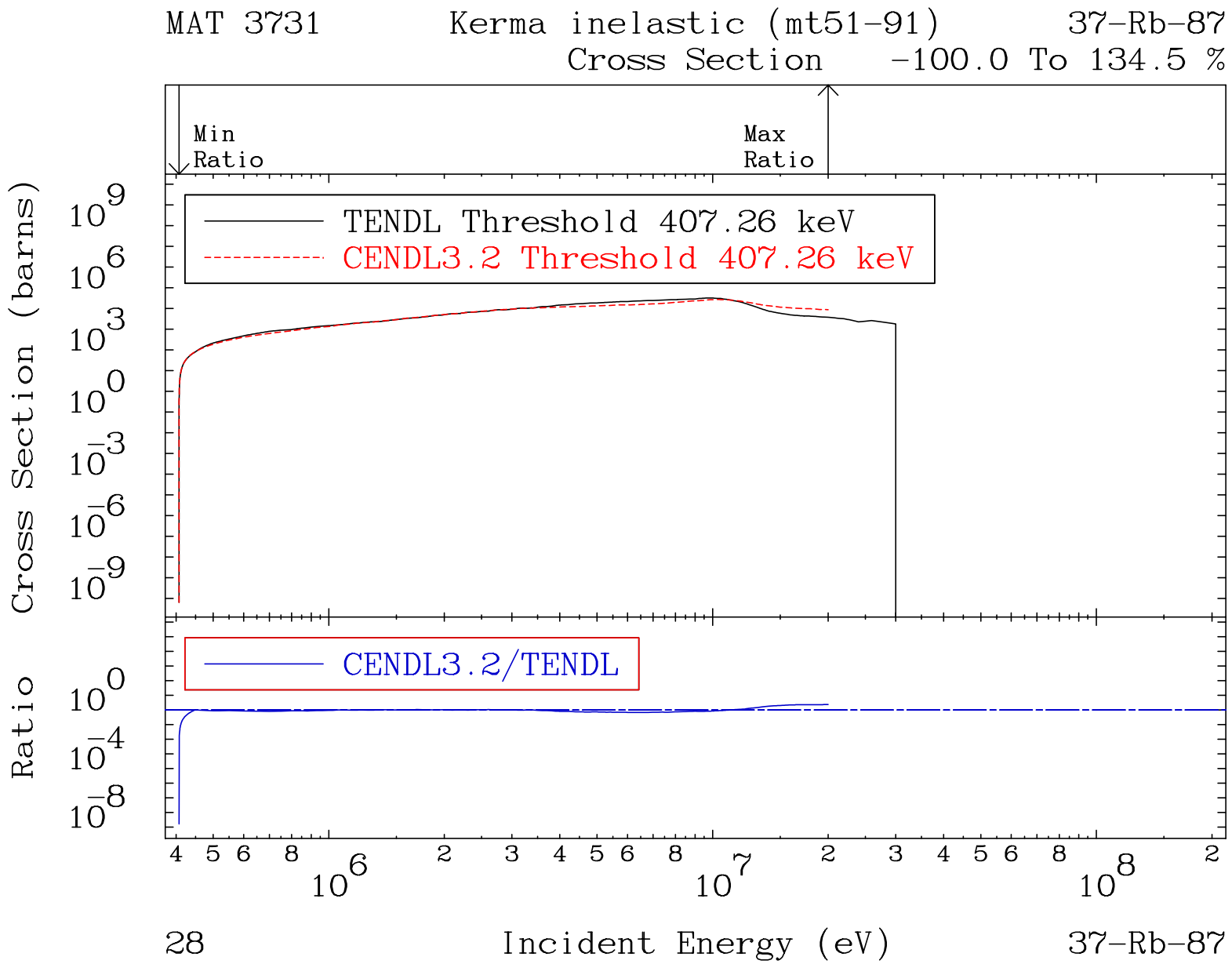

MAT 3731
Tritium Production
37-Rb-87
Cross Section
-100.0 To 3509. %
Min Ratio
Max Ratio
TENDL Threshold 10.112 MeV
CENDL3.2 Threshold 14.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
37-Rb-87

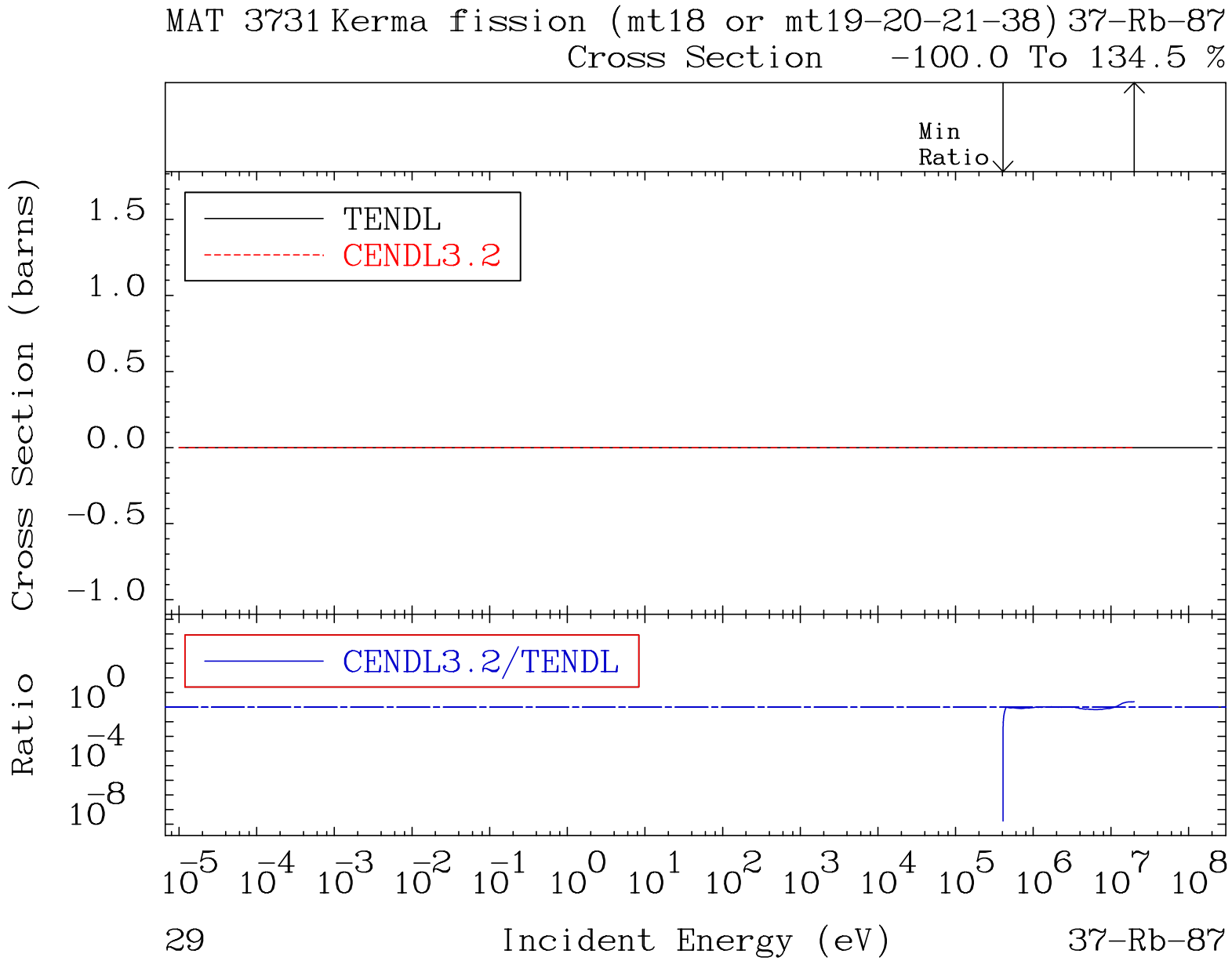

MAT 3731
He-4 Production
Cross Section
37-Rb-87
-100.0 To 200.4 %
Min Ratio
Max Ratio
TENDL Threshold 1.1819 MeV
CENDL3.2 Threshold 8.4000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
37-Rb-87

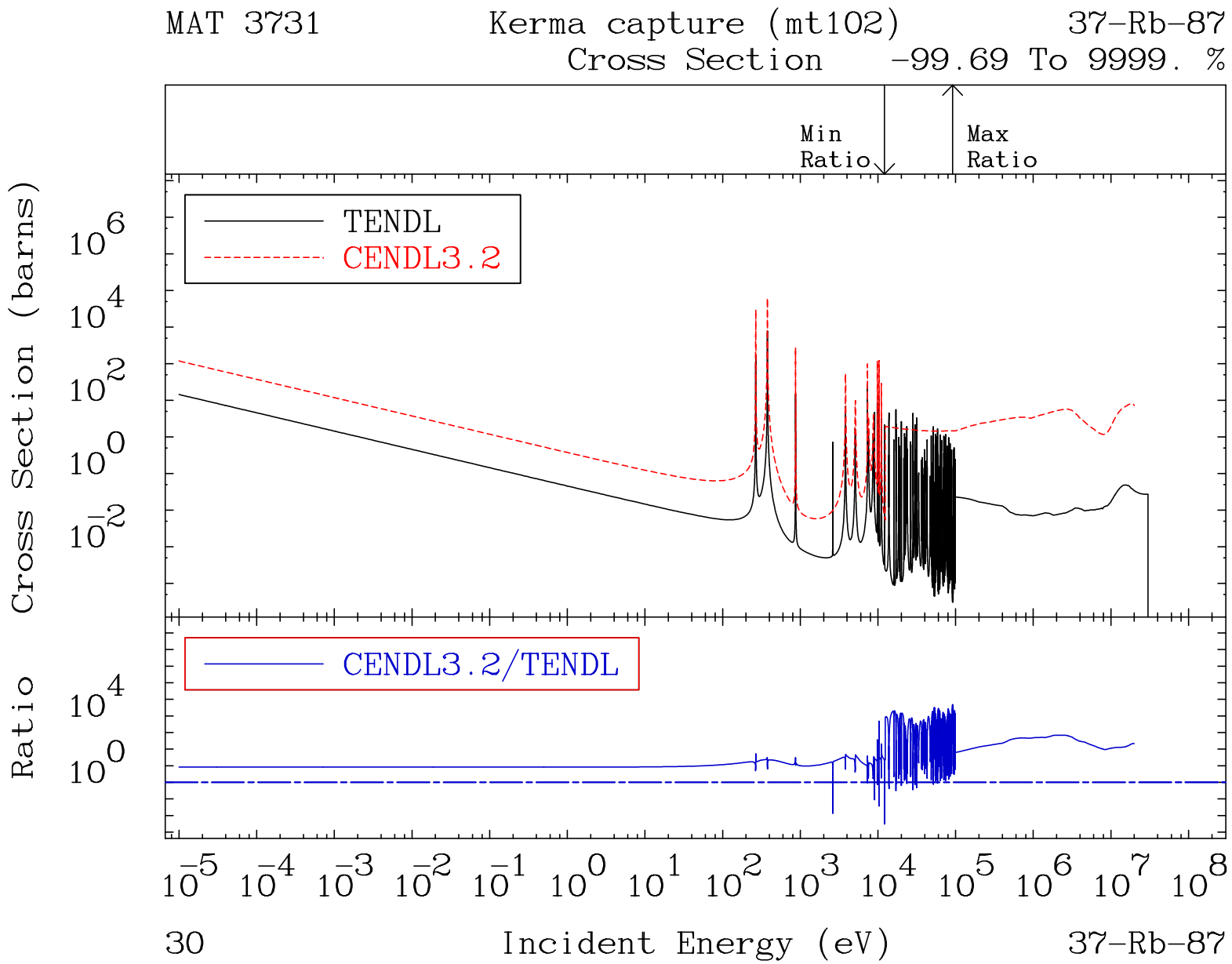

MAT 3731
Kerma total (eV-barns)
37-Rb-87
Cross Section -88.99 To 4222. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
Incident Energy (eV)
25
37-Rb-87

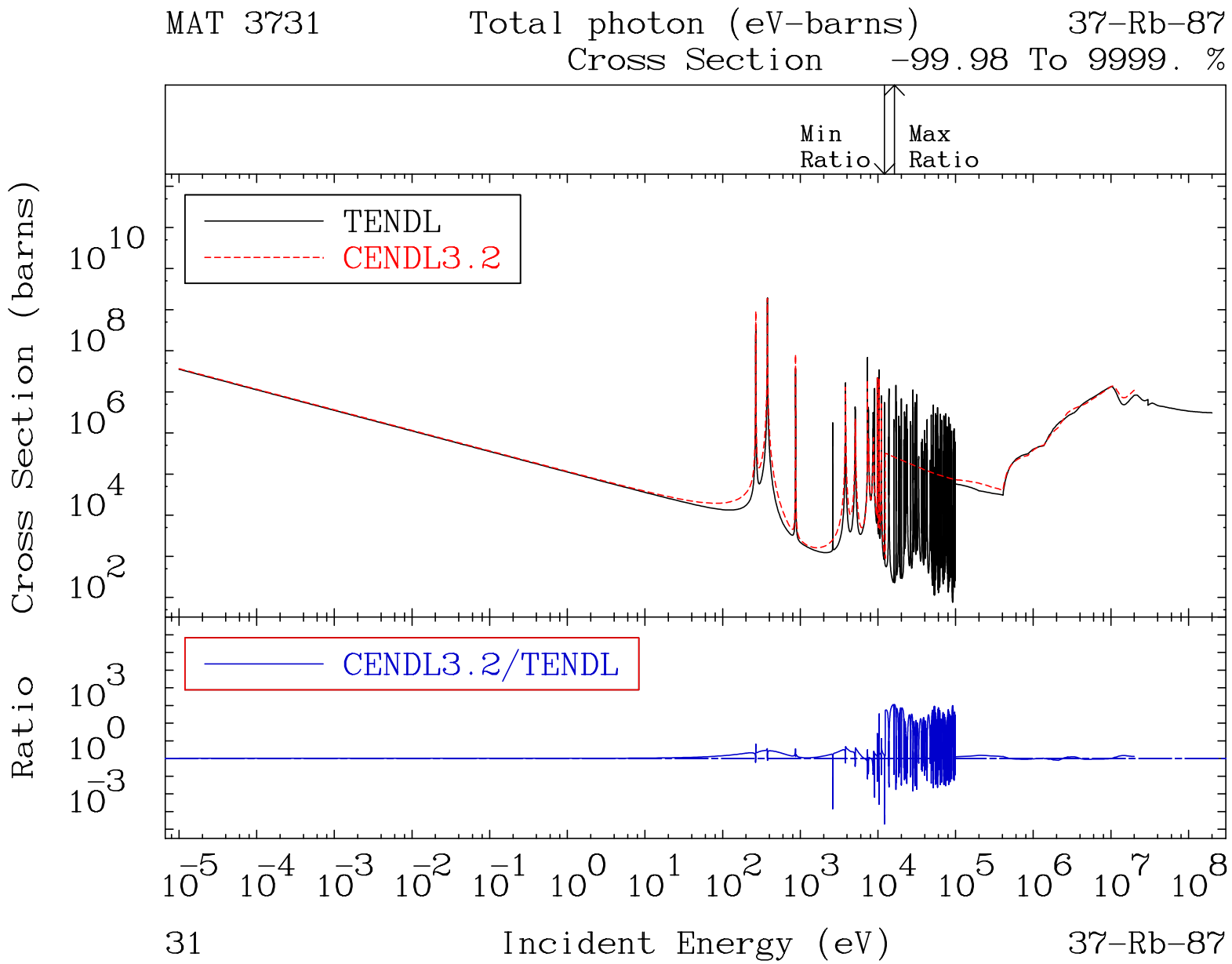

MAT 3731
Kerma elastic
Cross Section
37-Rb-87
-89.18 To 1235. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
37-Rb-87

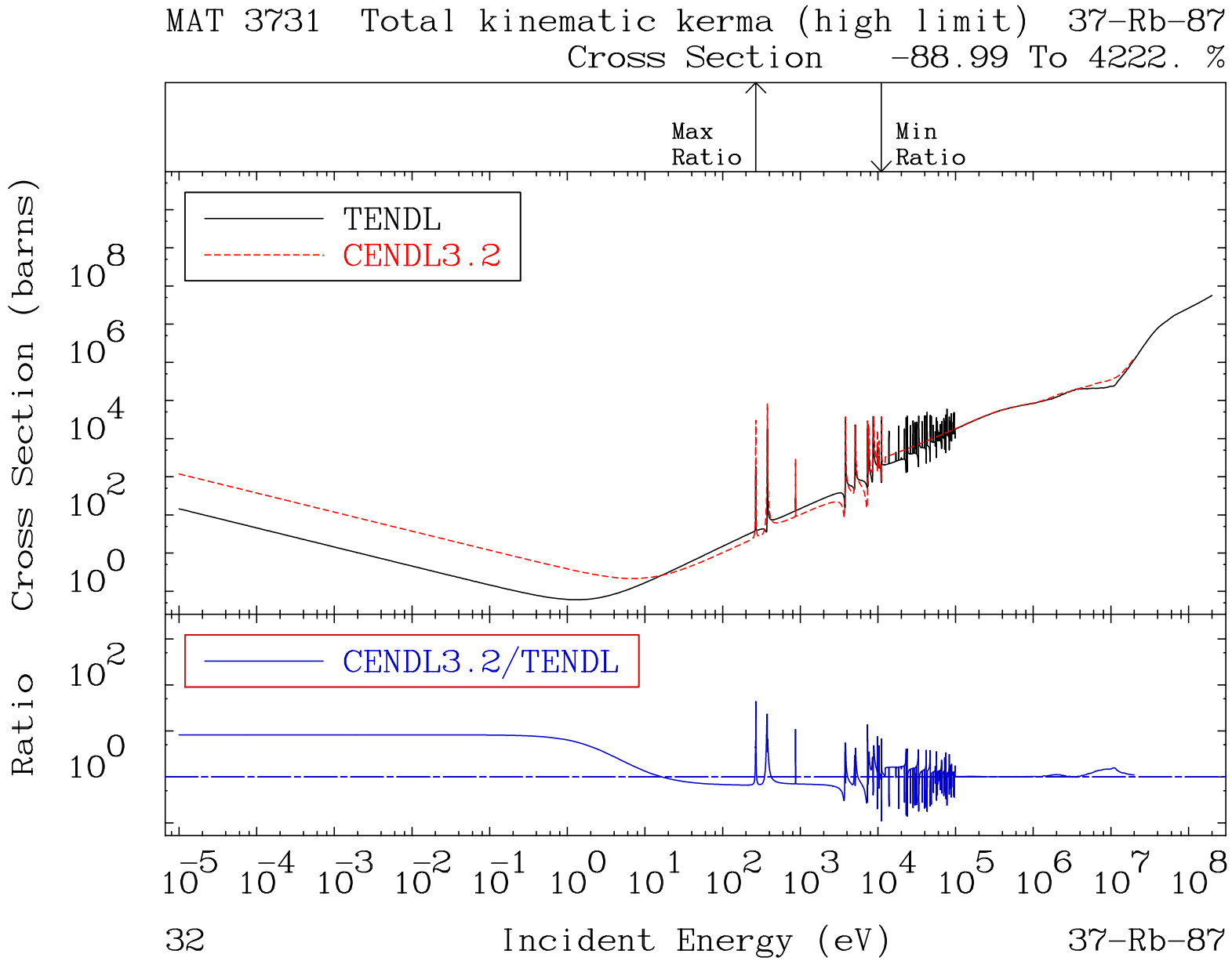

MAT 3731 Kerma non-elastic (all but mt2) 37-Rb-87
Cross Section -99.69 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
37-Rb-87

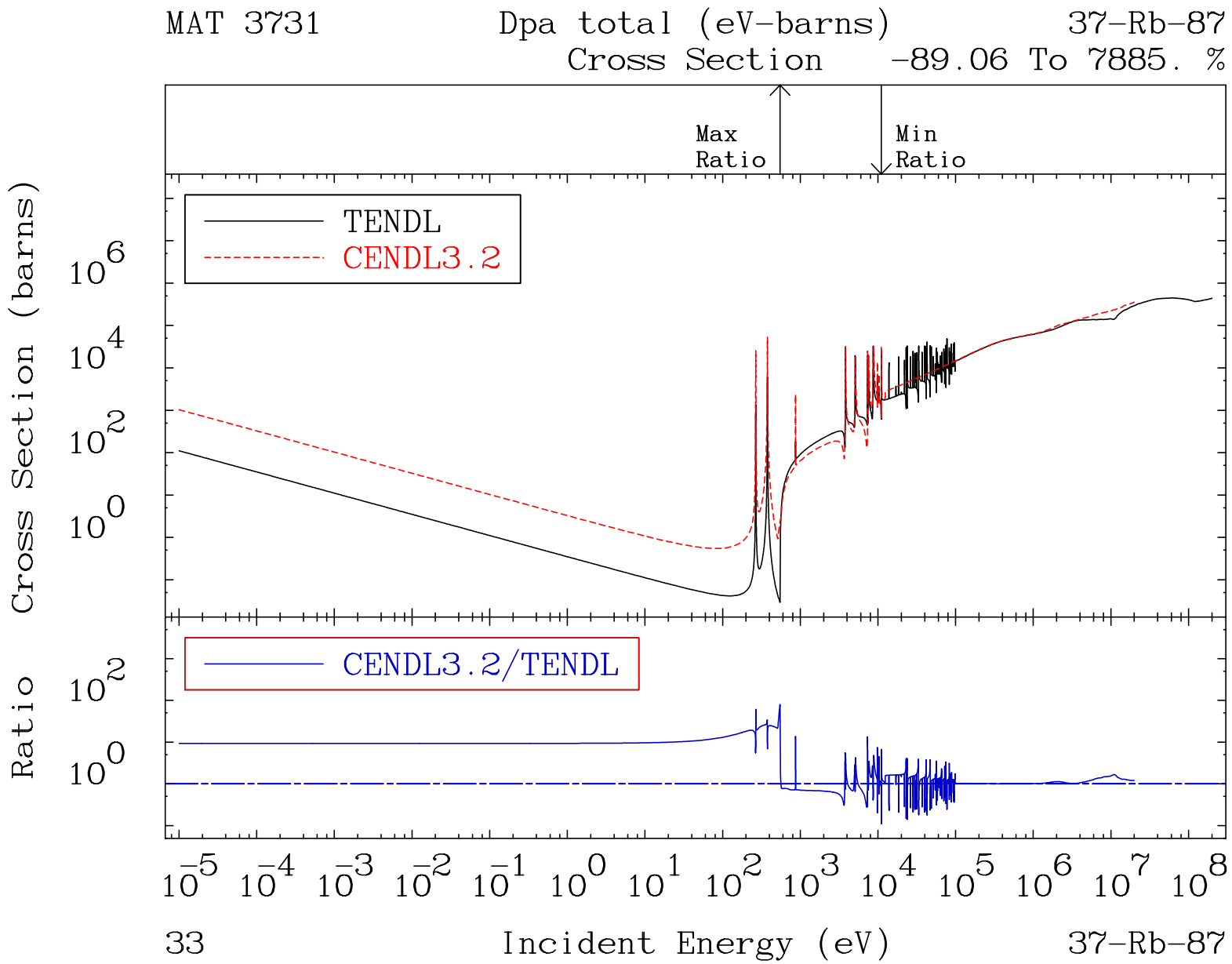

MAT 3731
Kerma inelastic (mt51-91)
37-Rb-87
Cross Section -100.0 To 134.5 %
Min Ratio
Max Ratio
TENDL Threshold 407.26 keV
CENDL3.2 Threshold 407.26 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
37-Rb-87

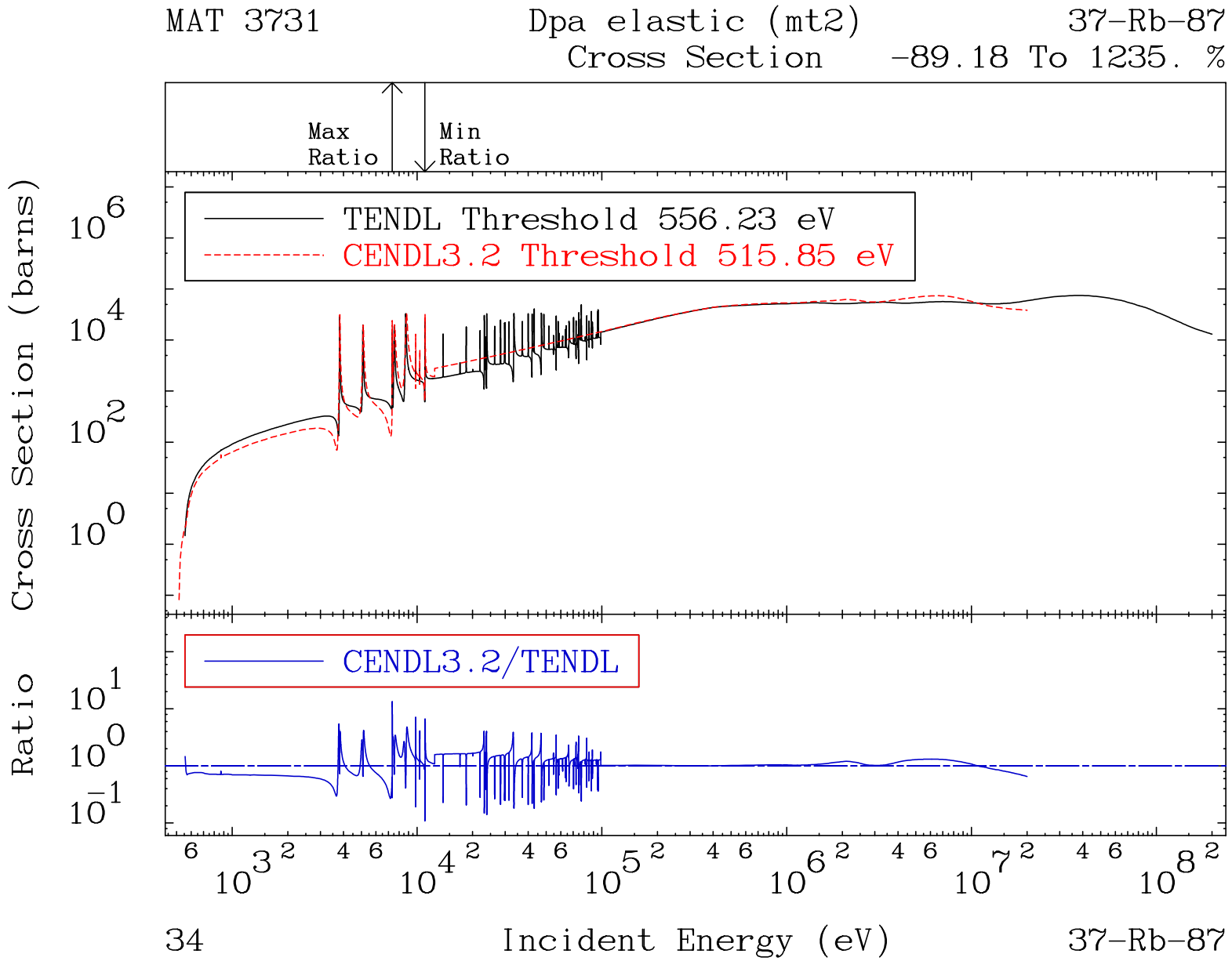

MAT 3731 Kerma fission (mt18 or mt19-20-21-38) 37-Rb-87
Cross Section -100.0 To 134.5 %
Min
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-4}
10^{-8}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
29
Incident Energy (eV)
37-Rb-87

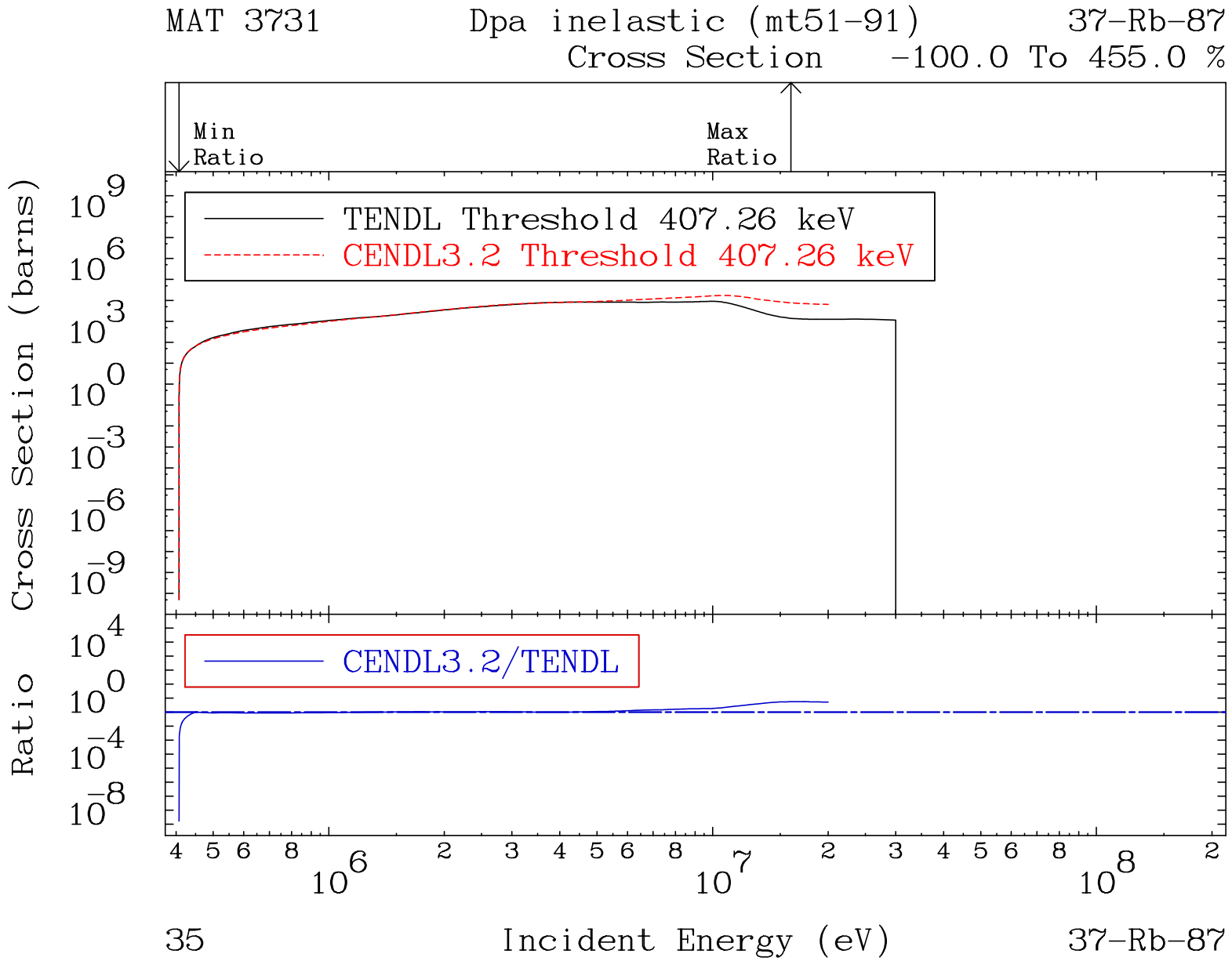

MAT 3731
Kerma capture (mt102)
37-Rb-87
Cross Section -99.69 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
30
37-Rb-87

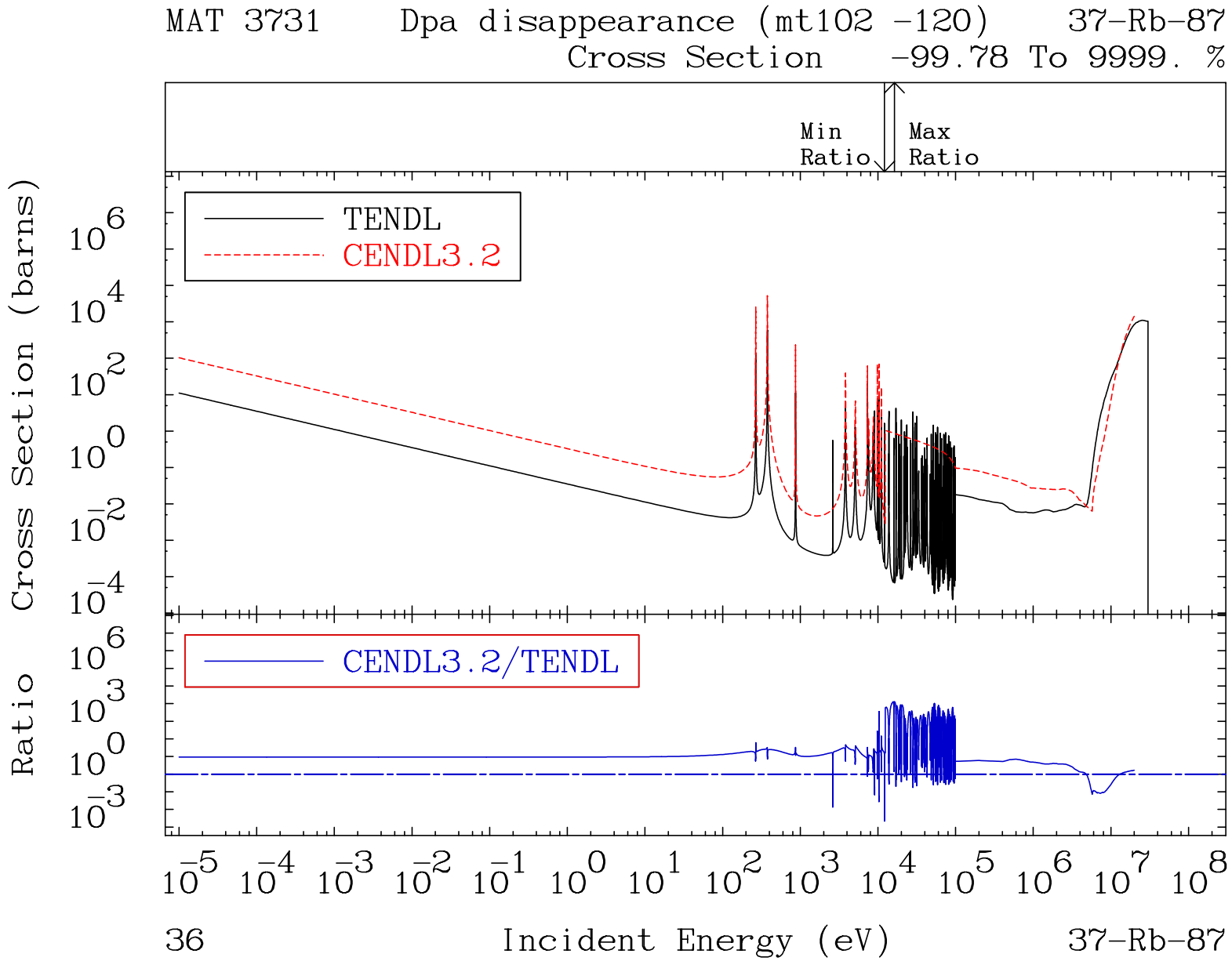

MAT 3731
Total photon (eV-barns)
37-Rb-87
Cross Section -99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
37-Rb-87

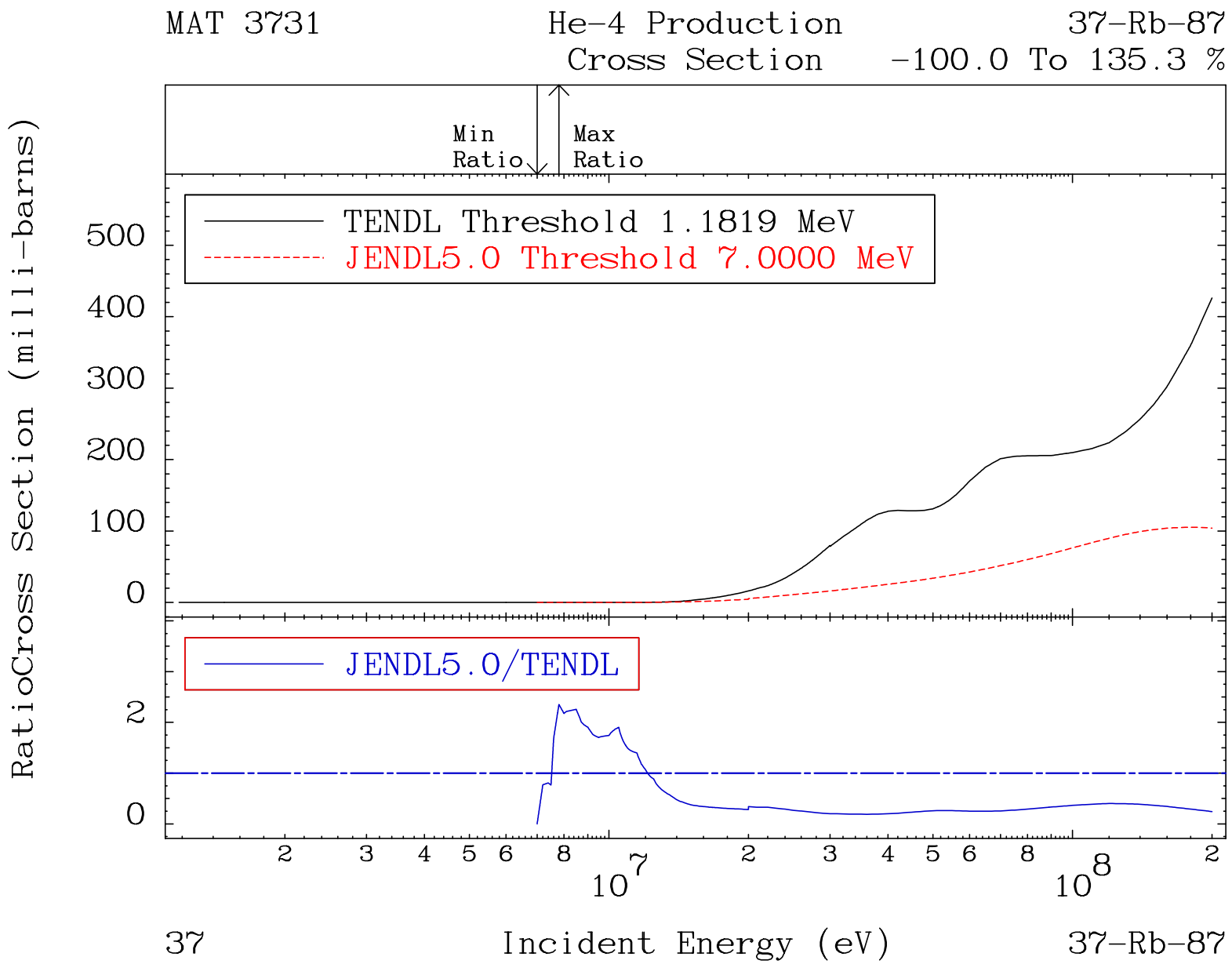

MAT 3731 Total kinematic kerma (high limit) 37-Rb-87
Cross Section -88.99 To 4222. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
Incident Energy (eV)
32
37-Rb-87

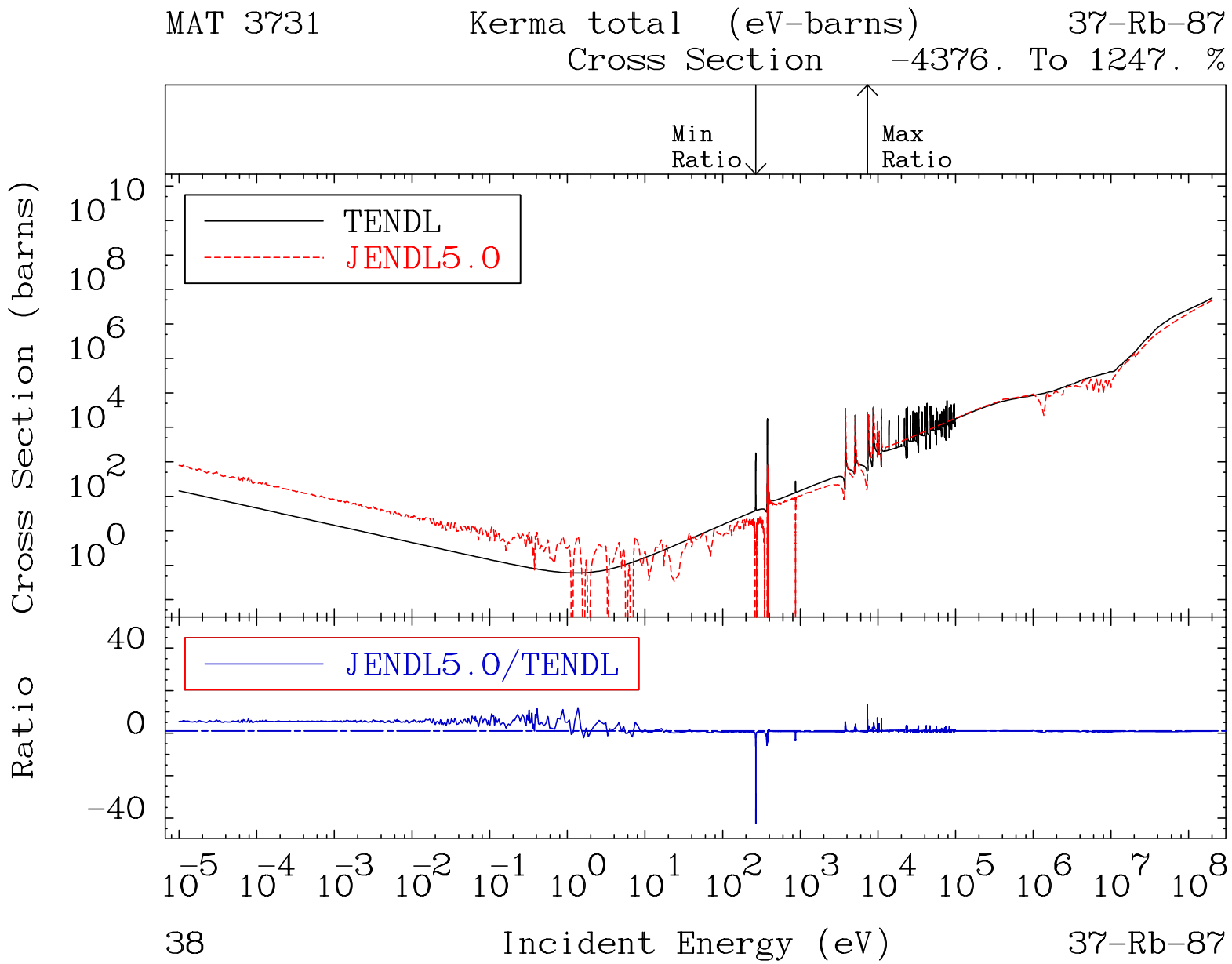

MAT 3731
Dpa total (eV-barns)
37-Rb-87
Cross Section -89.06 To 7885. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
33
37-Rb-87

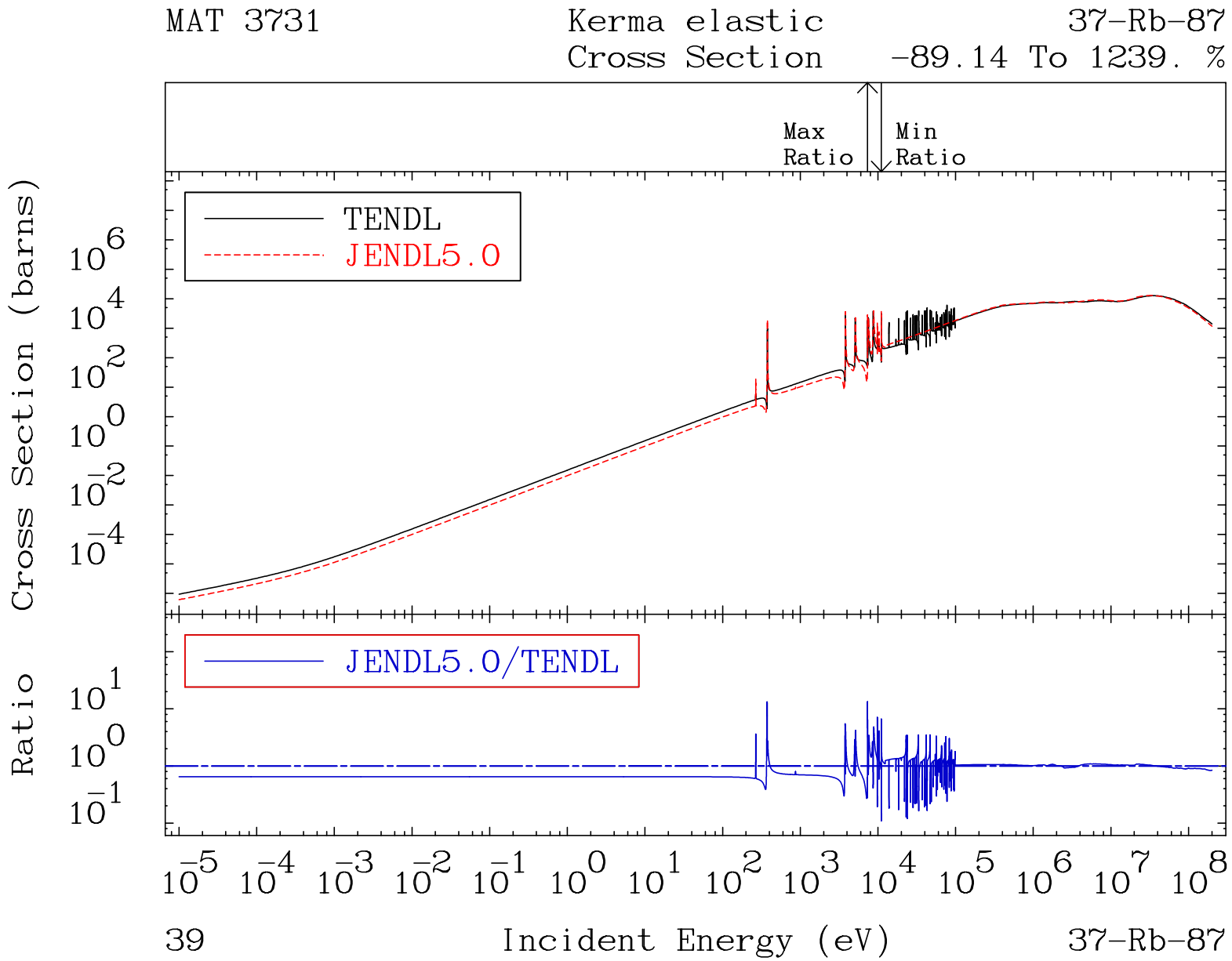

MAT 3731
Dpa elastic (mt2)
Cross Section
37-Rb-87
-89.18 To 1235. %
Max Ratio
Min Ratio
TENDL Threshold 556.23 eV
CENDL3.2 Threshold 515.85 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
37-Rb-87

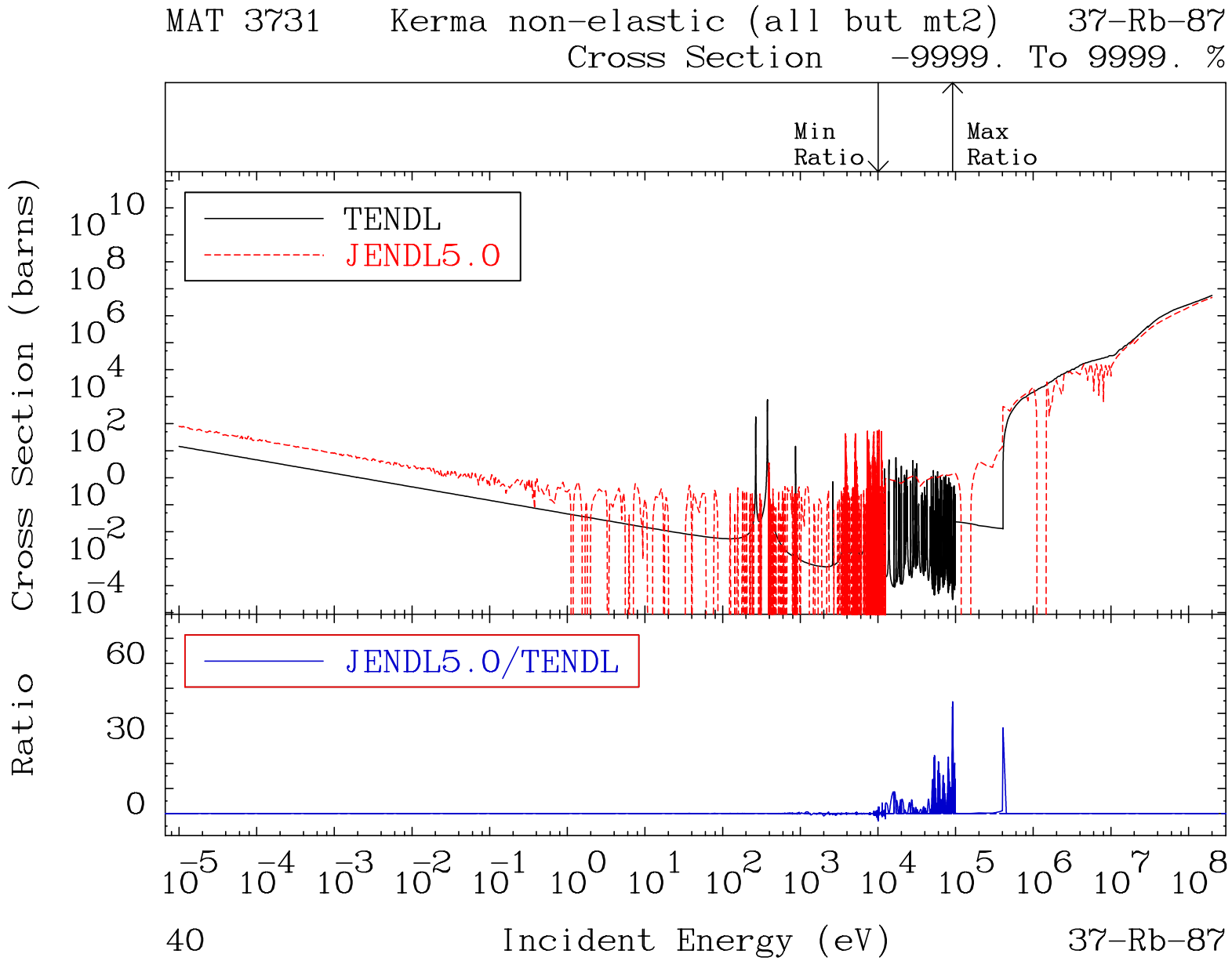

MAT 3731
Dpa inelastic (mt51-91)
37-Rb-87
Cross Section
-100.0 To 455.0 %
Min Ratio
Max Ratio
TENDL Threshold 407.26 keV
CENDL3.2 Threshold 407.26 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
37-Rb-87

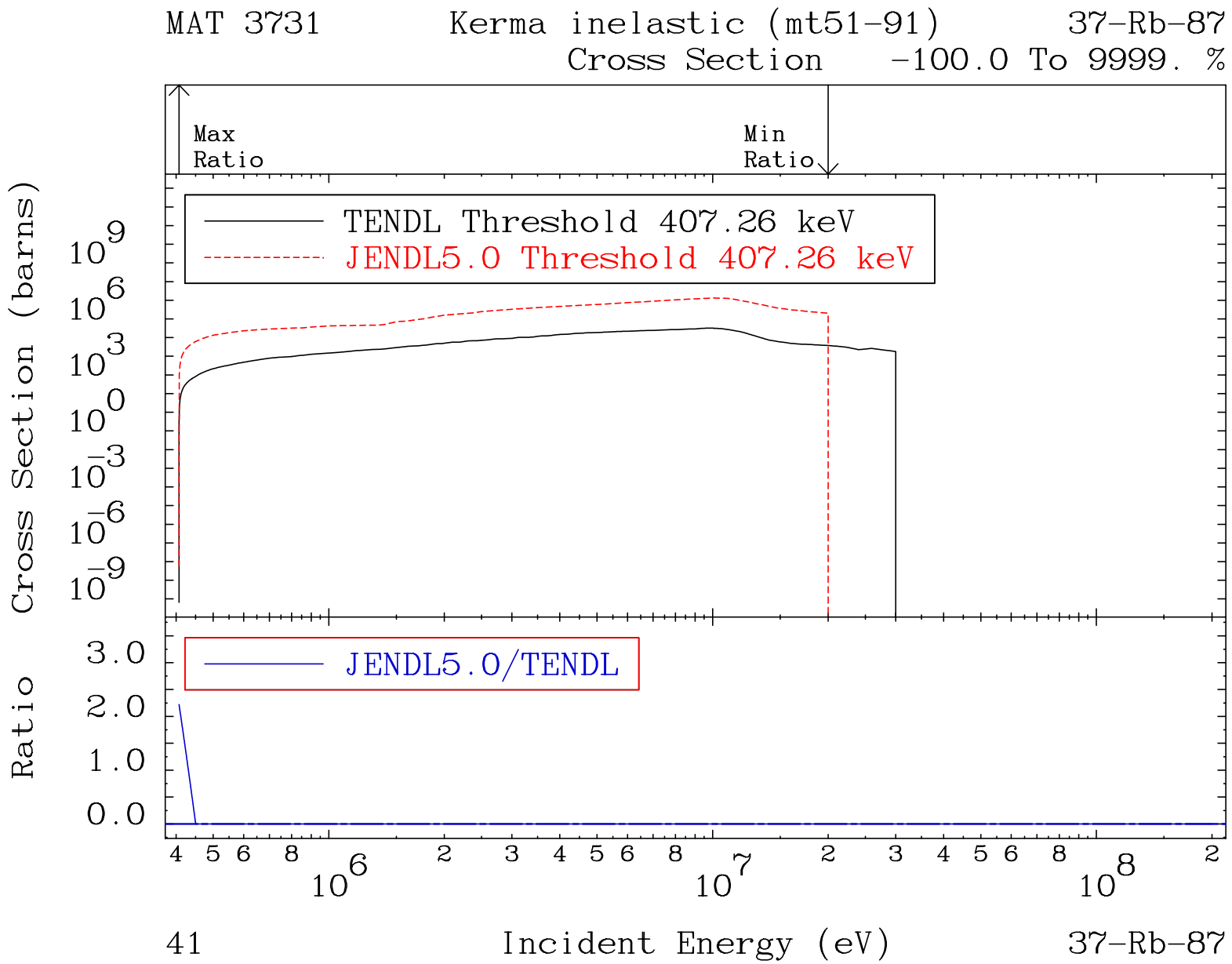

MAT 3731 Dpa disappearance (mt102 -120) 37-Rb-87
Cross Section -99.78 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
37-Rb-87

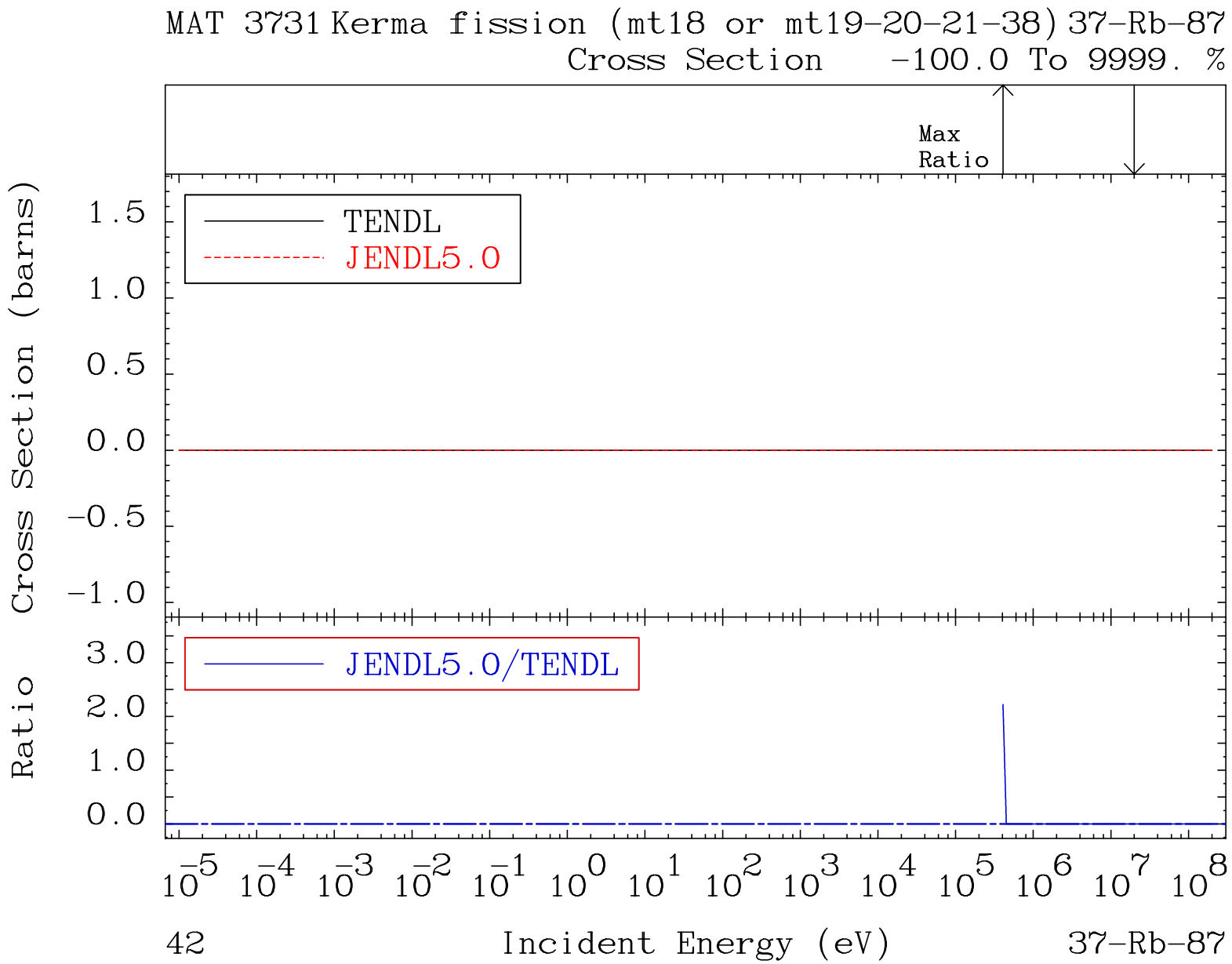

MAT 3731
He-4 Production
Cross Section
37-Rb-87
-100.0 To 135.3 %
Min Ratio
Max Ratio
TENDL Threshold 1.1819 MeV
JENDL5.0 Threshold 7.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
37
Incident Energy (eV)
37-Rb-87

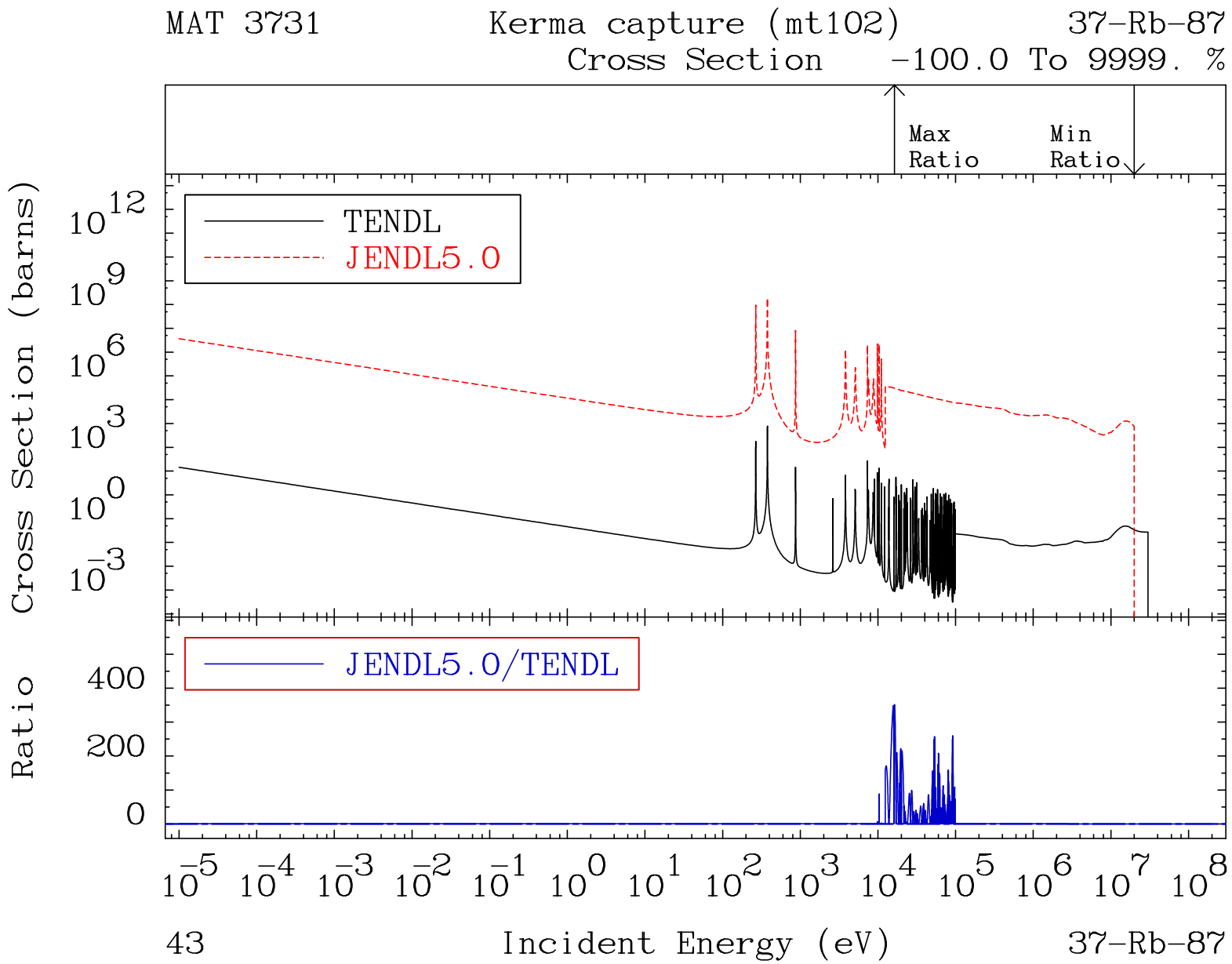

MAT 3731
Kerma total (eV-barns)
37-Rb-87
Cross Section -4376. To 1247. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
37-Rb-87

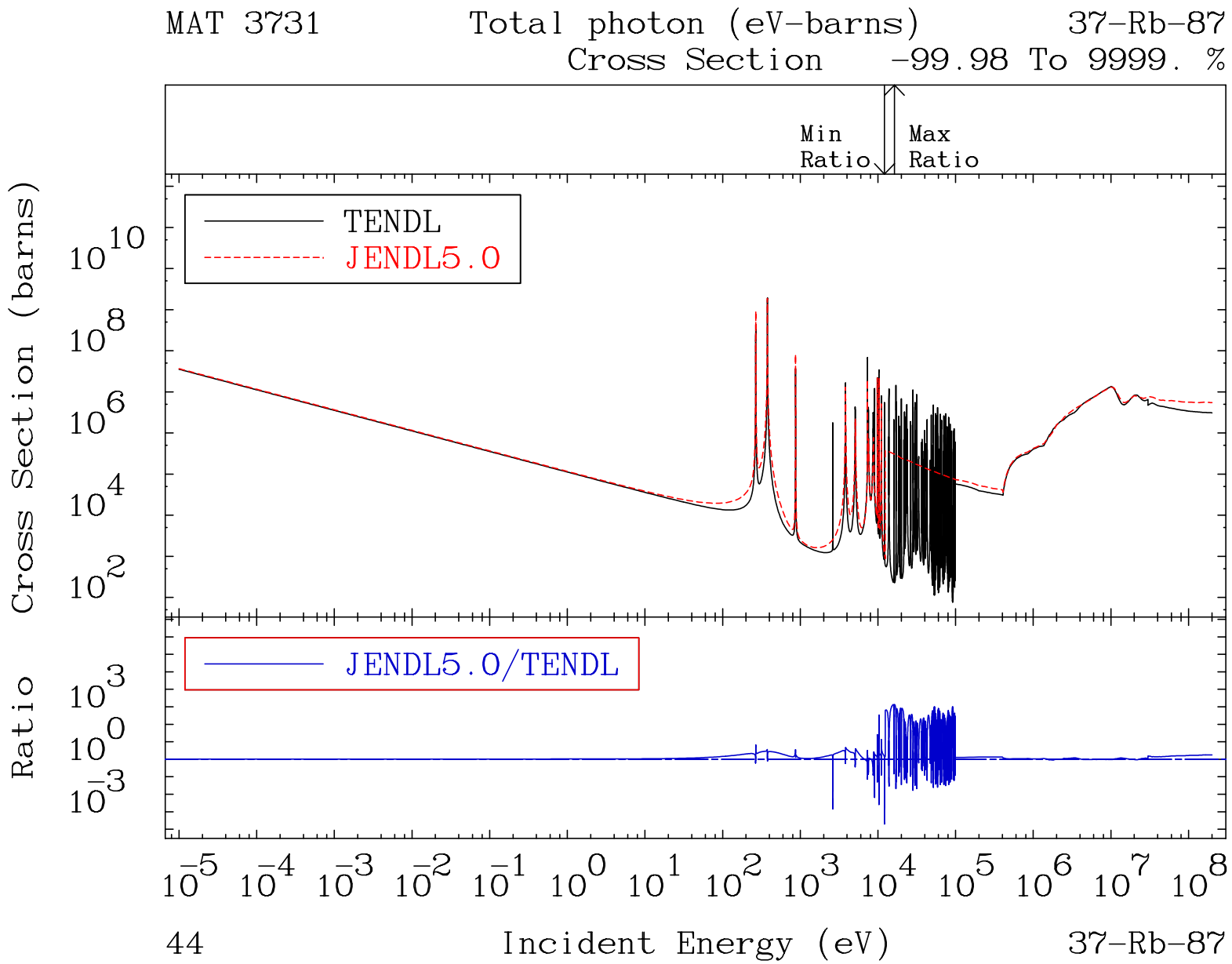

MAT 3731
Kerma elastic
Cross Section
37-Rb-87
-89.14 To 1239. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
37-Rb-87

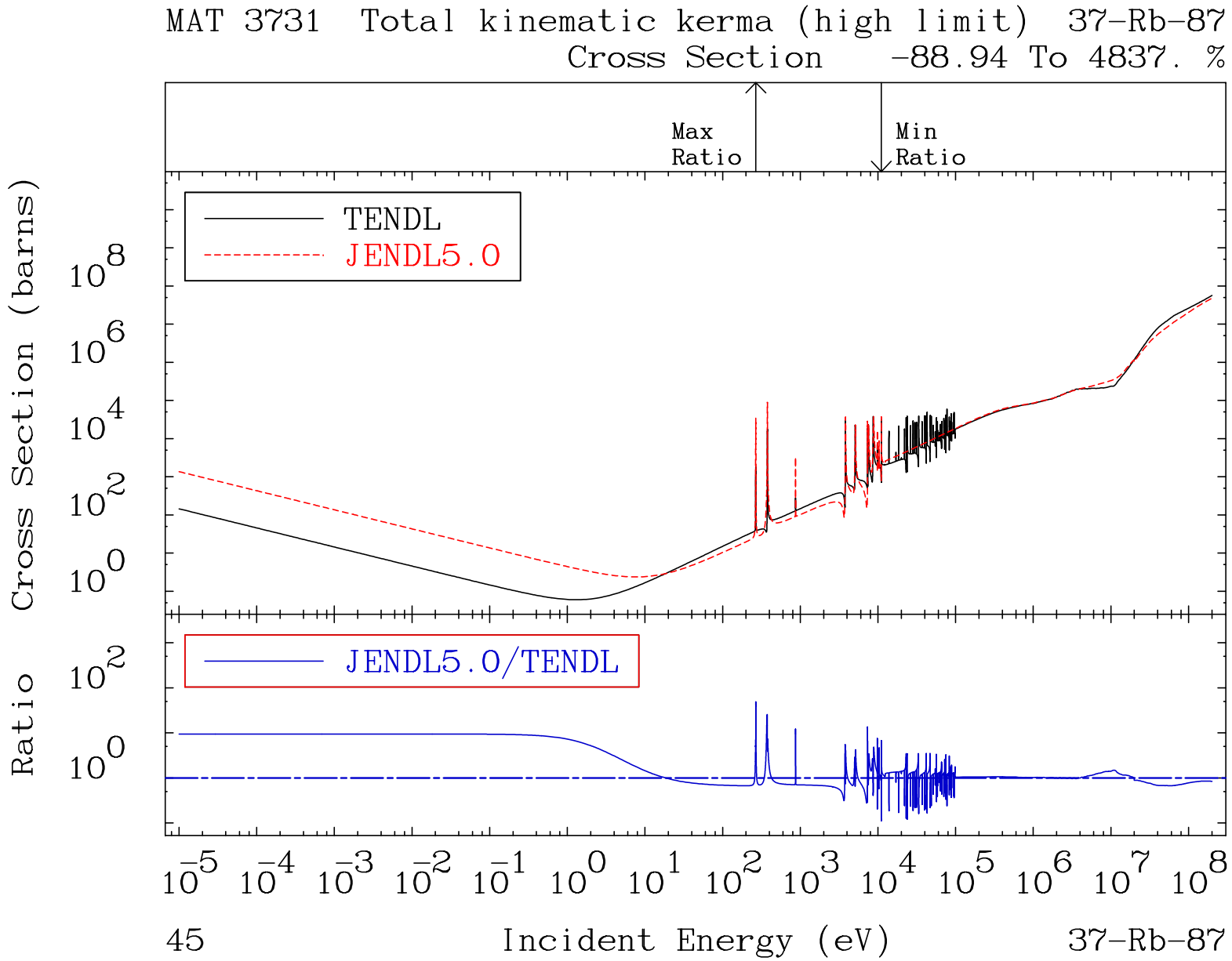

MAT 3731 Kerma non-elastic (all but mt2) 37-Rb-87
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
40
37-Rb-87

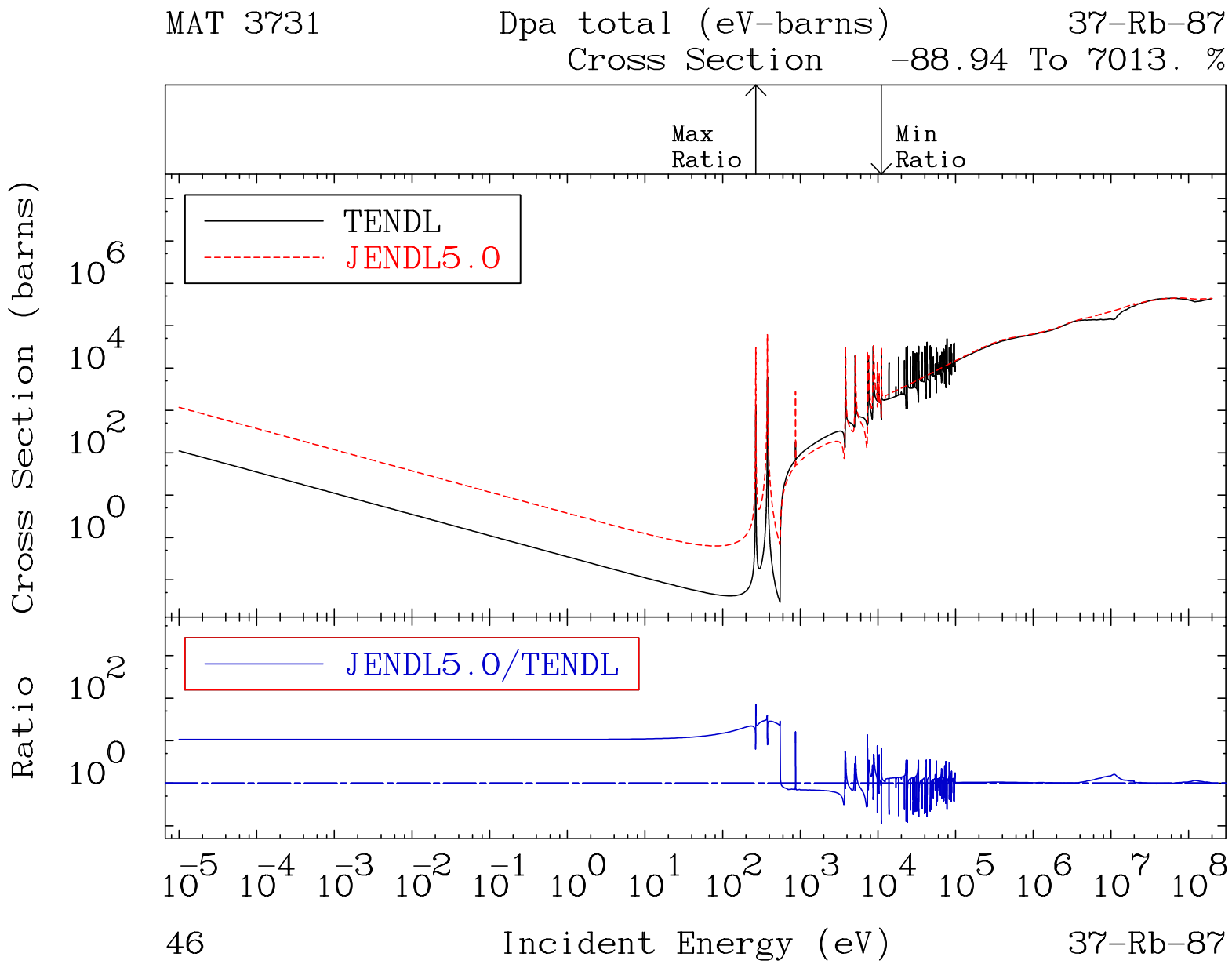

MAT 3731
Kerma inelastic (mt51-91)
37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 407.26 keV
JENDL5.0 Threshold 407.26 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
37-Rb-87

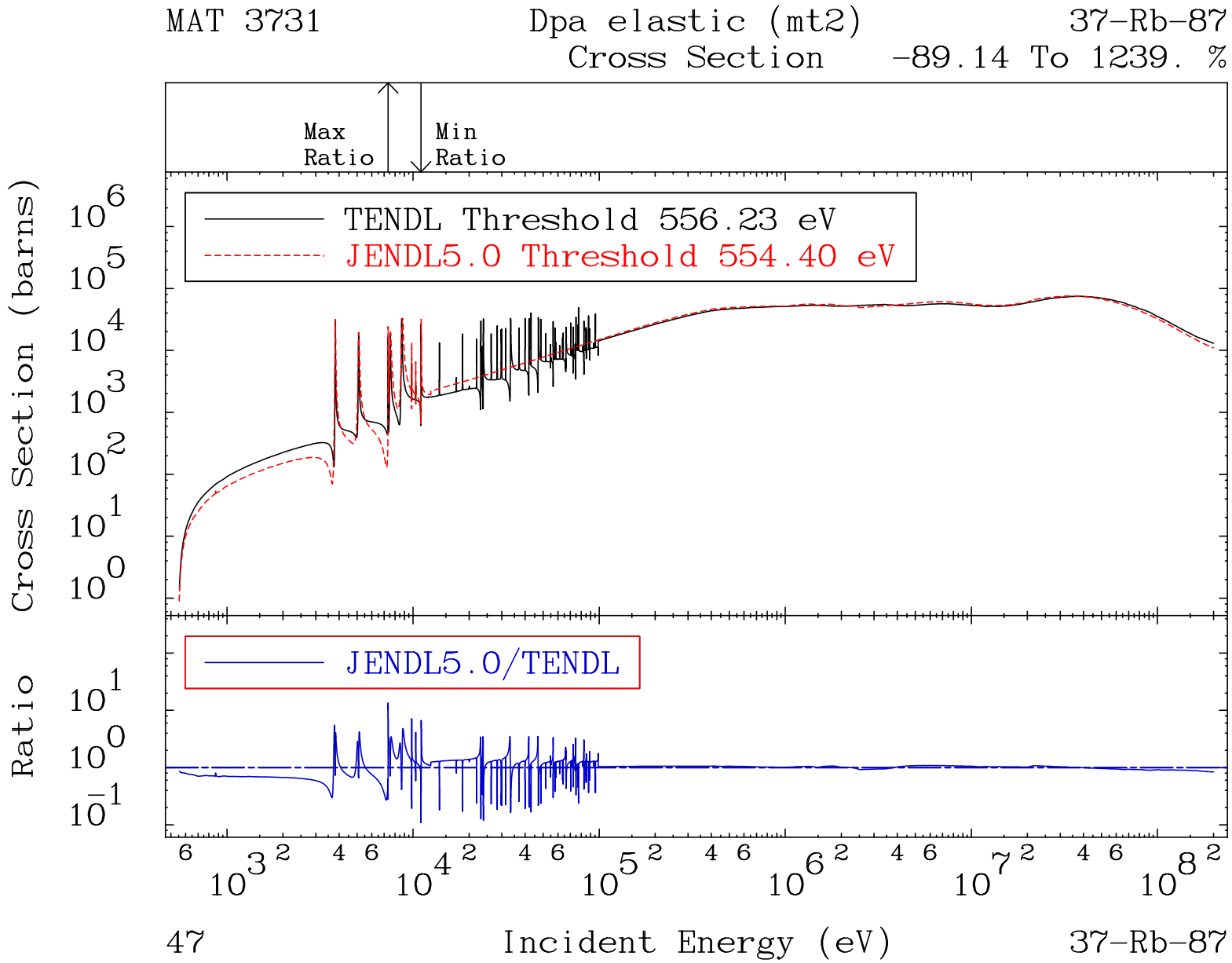

MAT 3731 Kerma fission (mt18 or mt19-20-21-38) 37-Rb-87
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
37-Rb-87

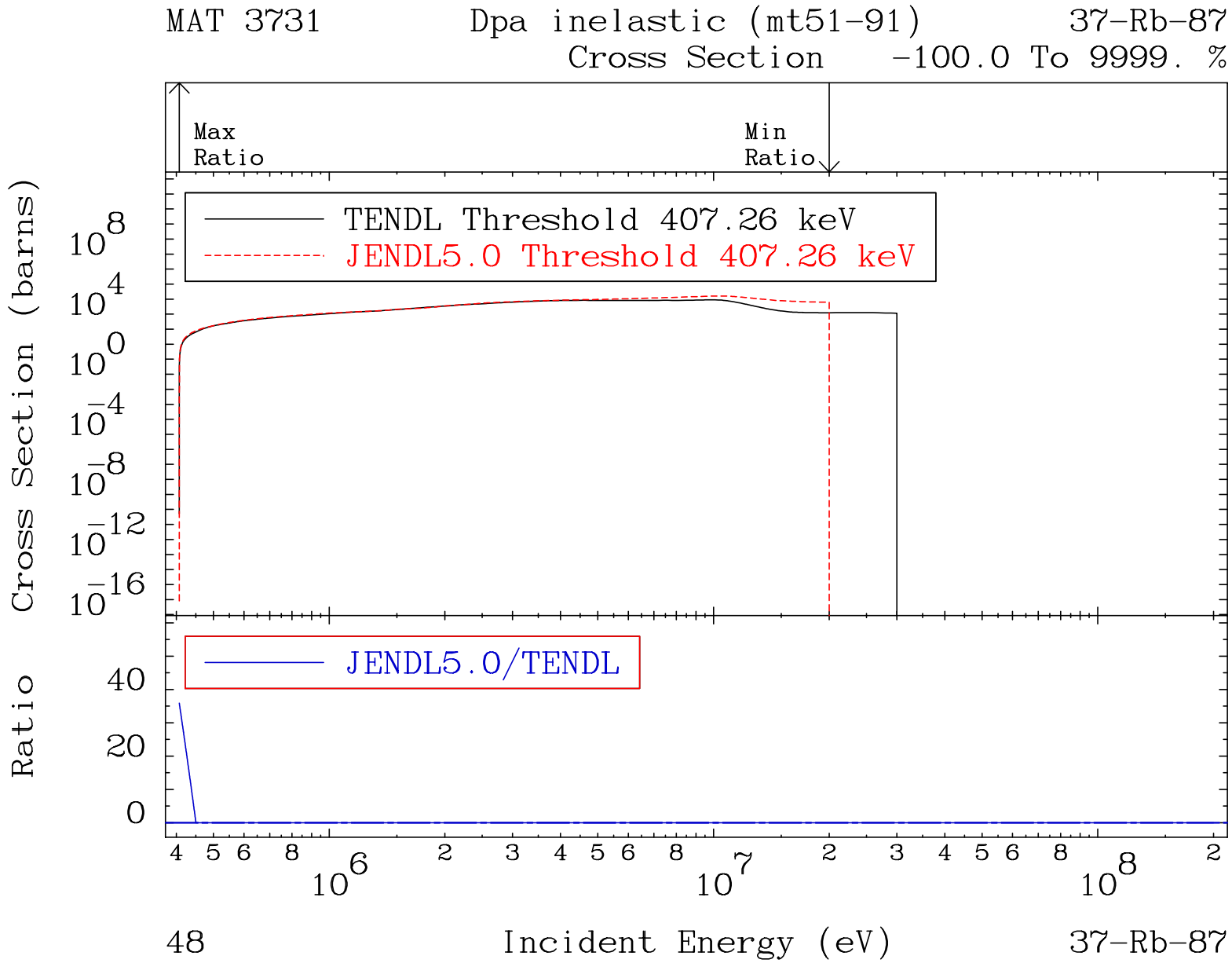

MAT 3731
Kerma capture (mt102)
37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
37-Rb-87

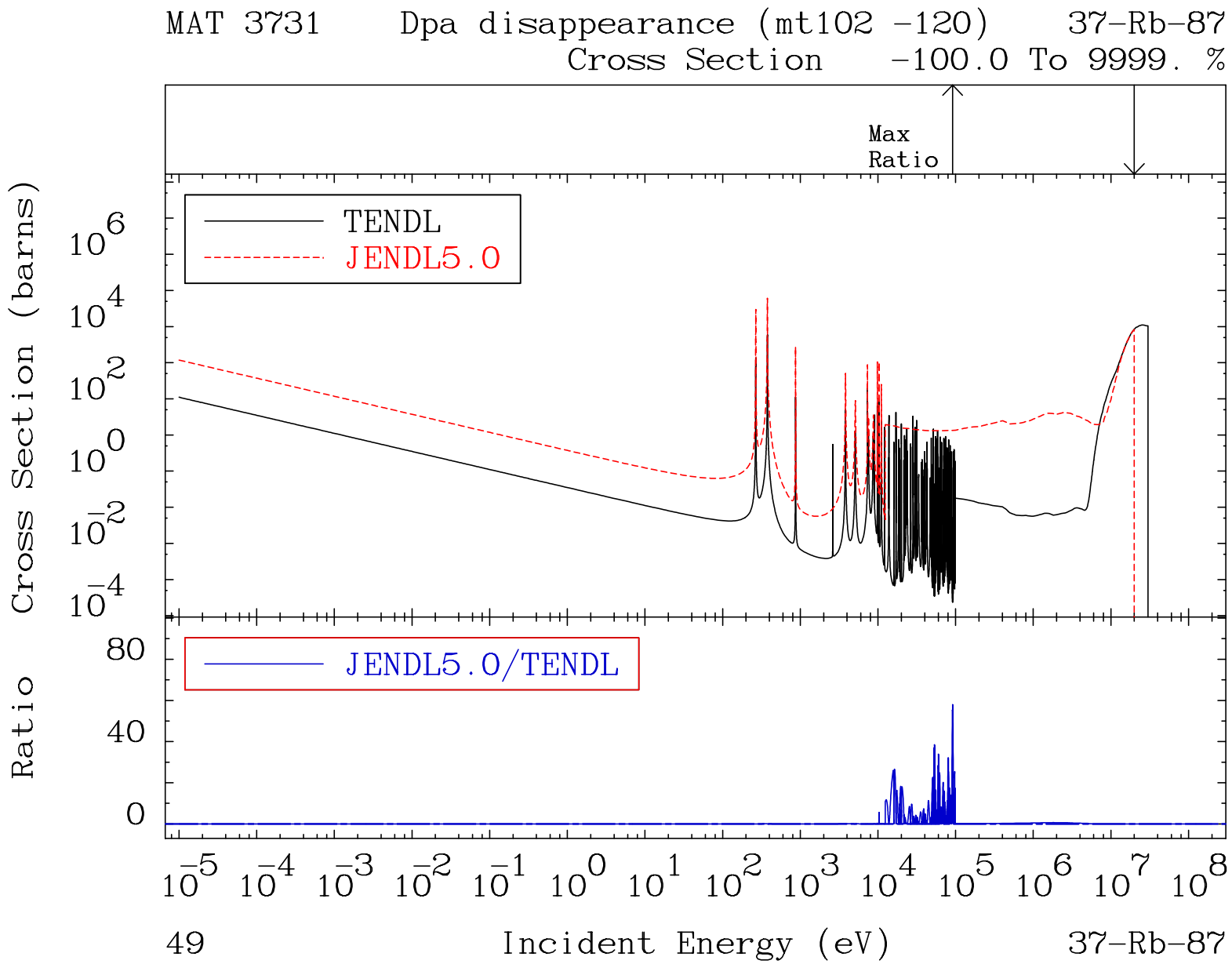

MAT 3731
Total photon (eV-barns)
37-Rb-87
Cross Section -99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
37-Rb-87

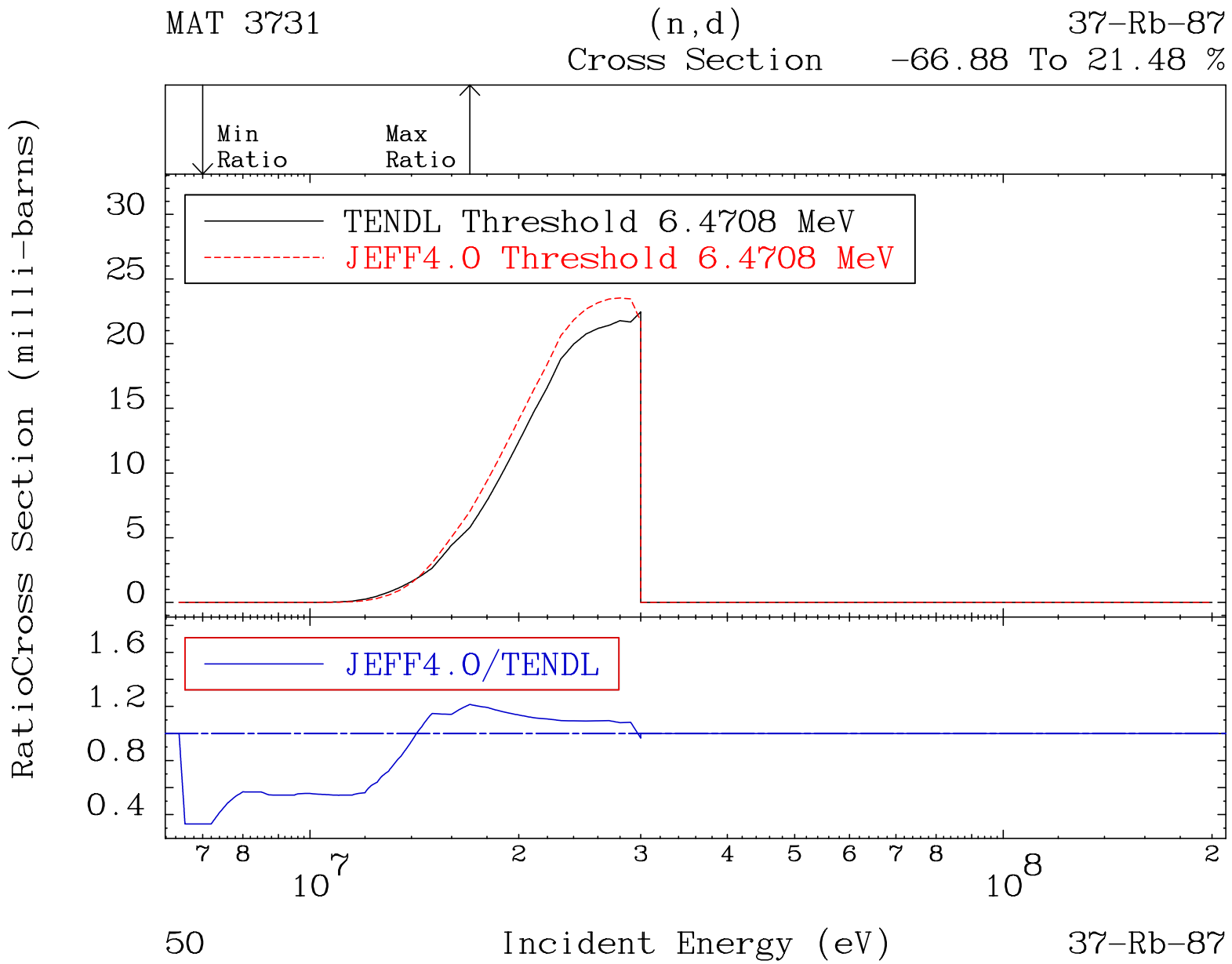

MAT 3731 Total kinematic kerma (high limit) 37-Rb-87
Cross Section -88.94 To 4837. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
45
37-Rb-87

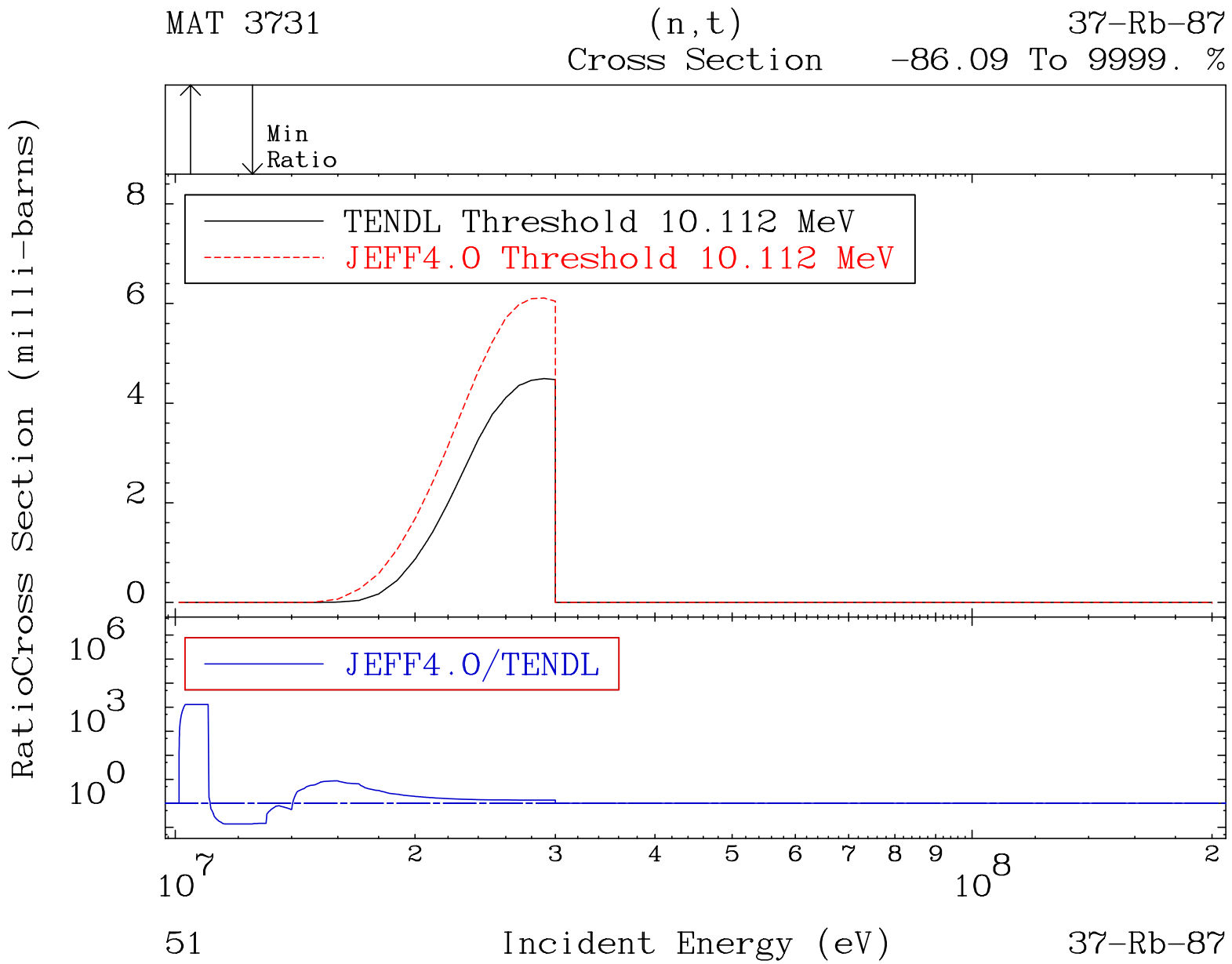

MAT 3731
Dpa total (eV-barns)
37-Rb-87
Cross Section -88.94 To 7013. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
46
37-Rb-87

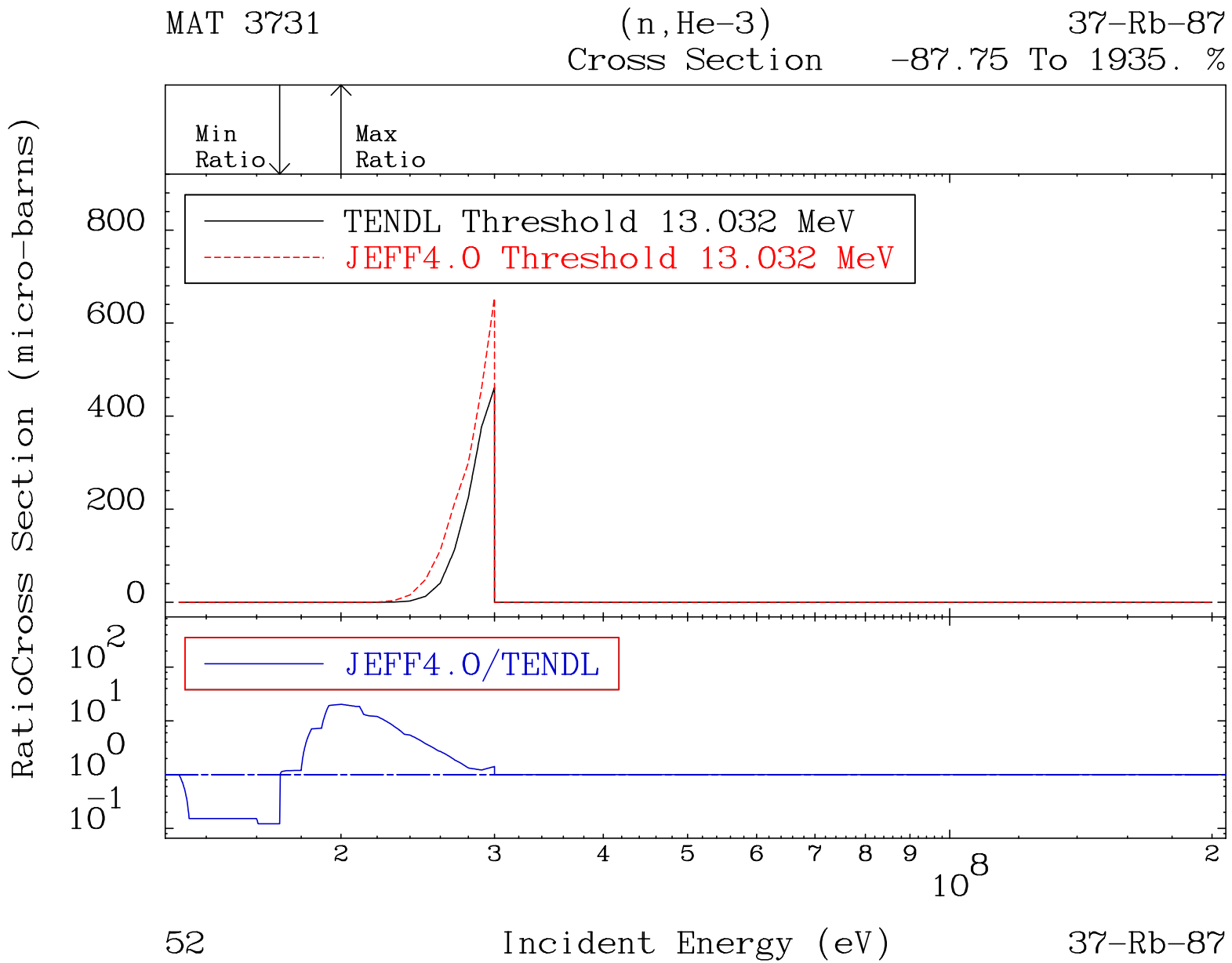

MAT 3731
Dpa elastic (mt2)
Cross Section
37-Rb-87
-89.14 To 1239. %
Max Ratio
Min Ratio
TENDL Threshold 556.23 eV
JENDL5.0 Threshold 554.40 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
37-Rb-87

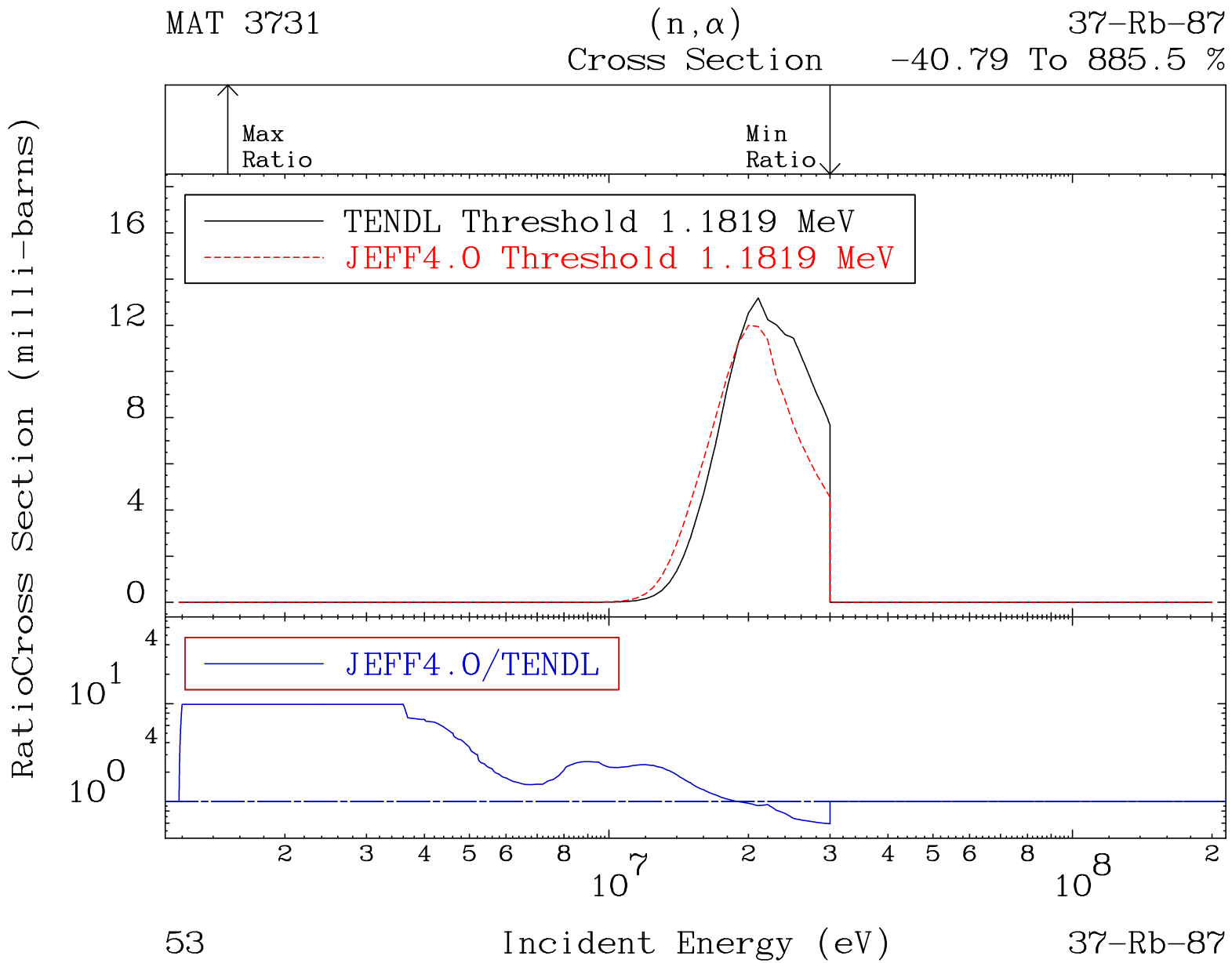

MAT 3731
Dpa inelastic (mt51-91)
37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 407.26 keV
JENDL5.0 Threshold 407.26 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
37-Rb-87

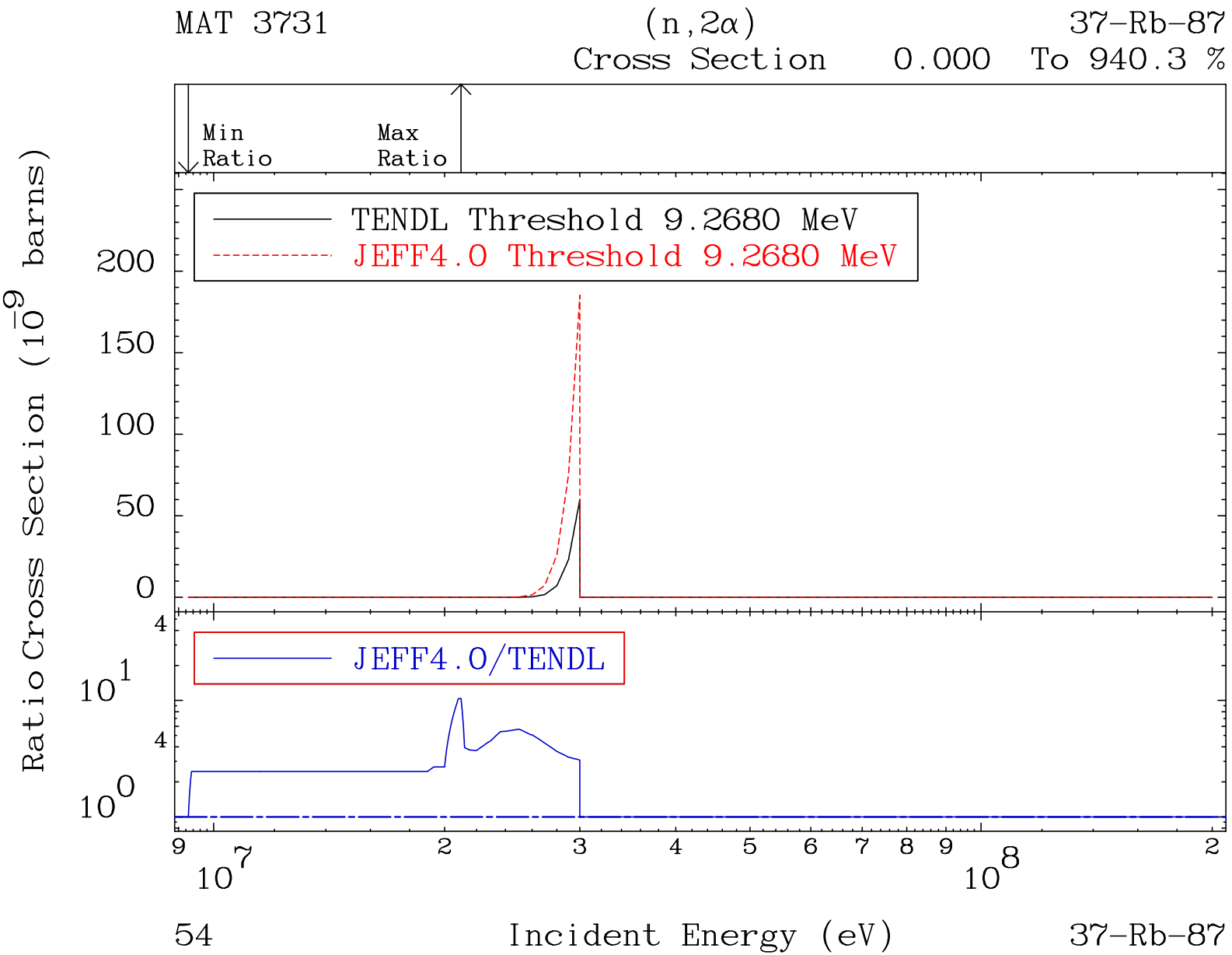

MAT 3731 Dpa disappearance (mt102 -120) 37-Rb-87
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
37-Rb-87

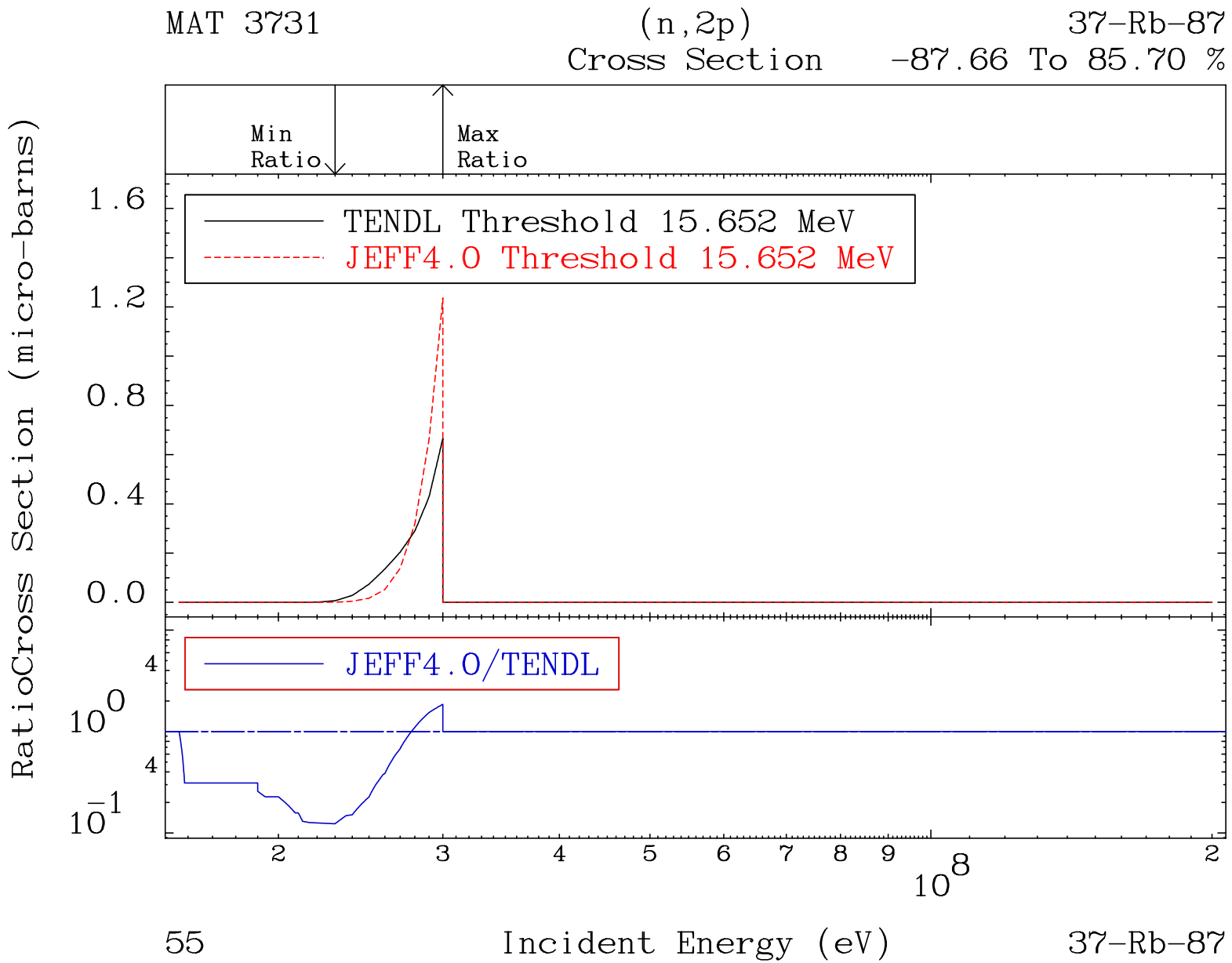

MAT 3731
(n,d)
Cross Section
37-Rb-87
-66.88 To 21.48 %
Min Ratio
Max Ratio
TENDL Threshold 6.4708 MeV
JEFF4.0 Threshold 6.4708 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50
37-Rb-87

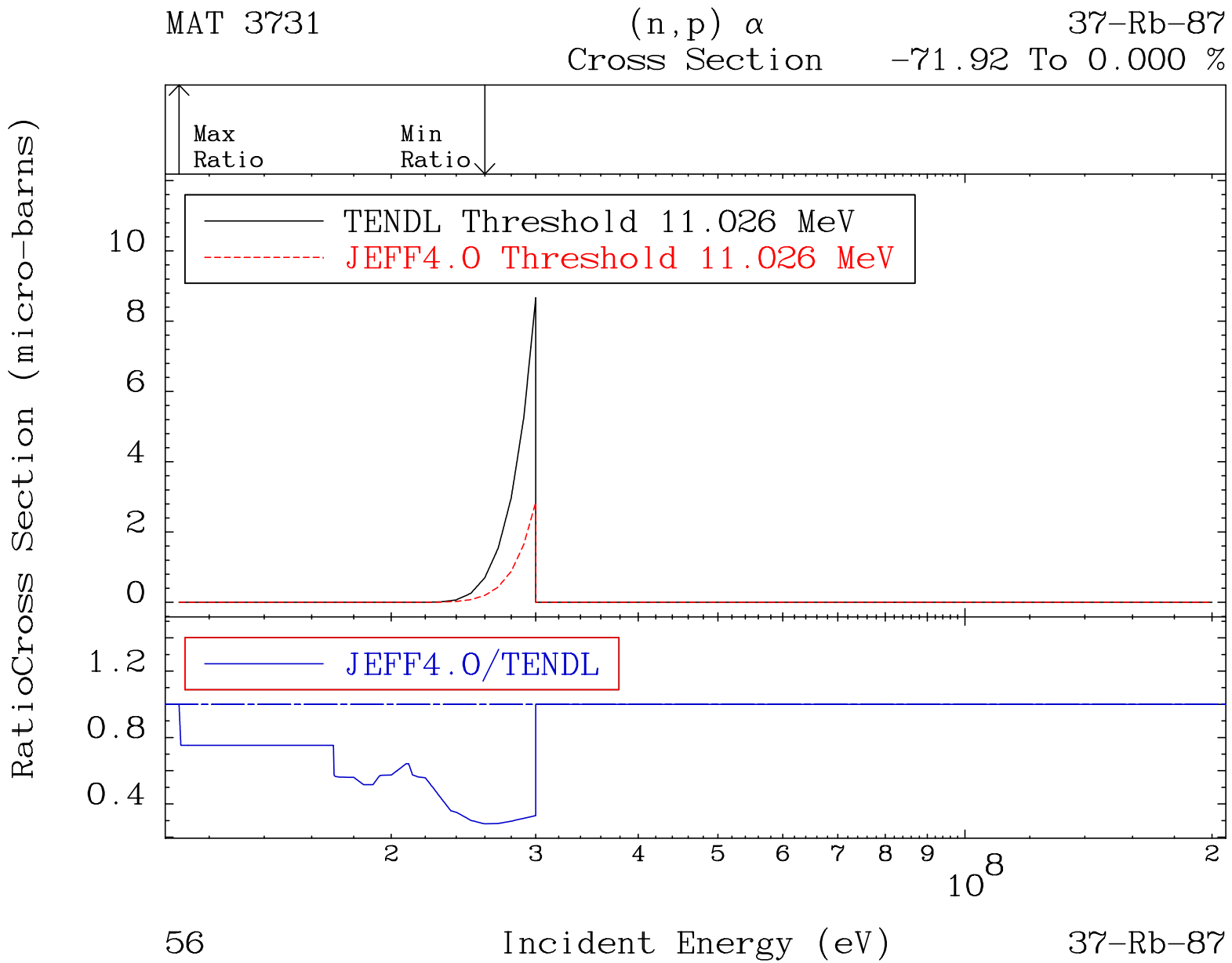

MAT 3731
(n,t)
37-Rb-87
Cross Section
-86.09 To 9999. %
Min
Ratio
TENDL Threshold 10.112 MeV
JEFF4.0 Threshold 10.112 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
51
37-Rb-87

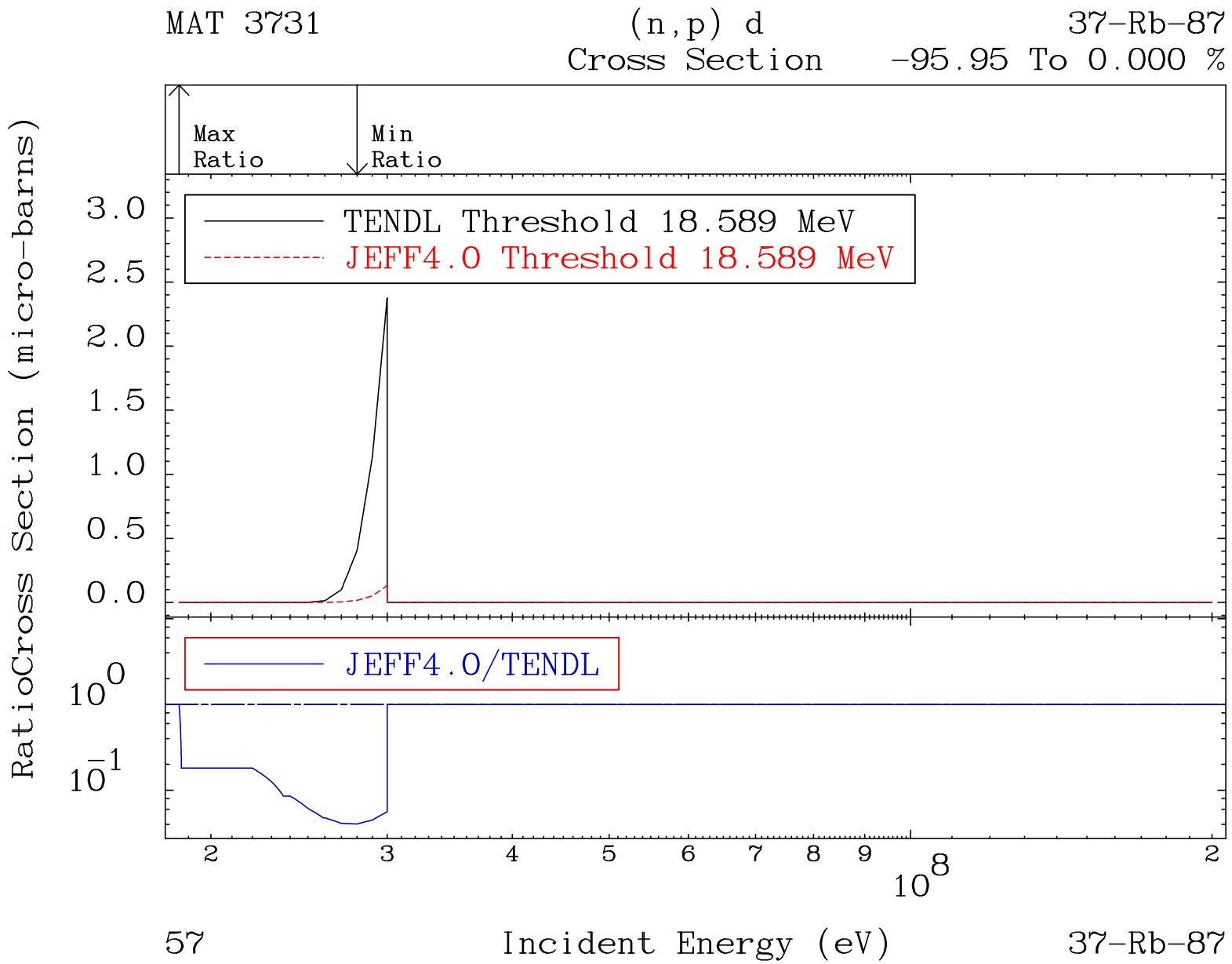

MAT 3731
(n,He-3)
Cross Section
37-Rb-87
-87.75 To 1935. %
Min Ratio
Max Ratio
TENDL Threshold 13.032 MeV
JEFF4.0 Threshold 13.032 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
10^2
10^1
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
37-Rb-87

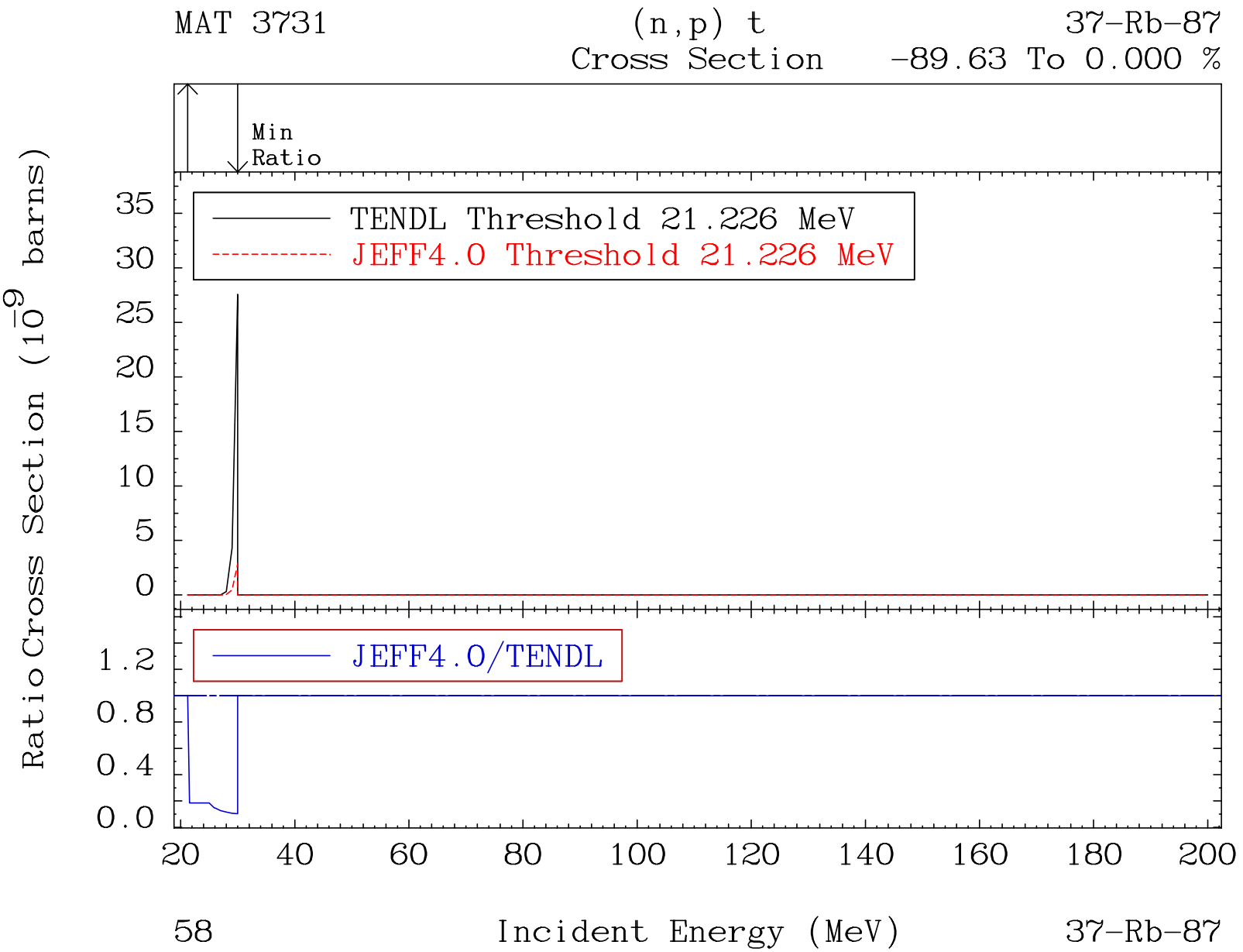

MAT 3731
(n,α)
37-Rb-87
Cross Section
-40.79 To 885.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.1819 MeV
JEFF4.0 Threshold 1.1819 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
10^1
4
10^0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
53
Incident Energy (eV)
37-Rb-87

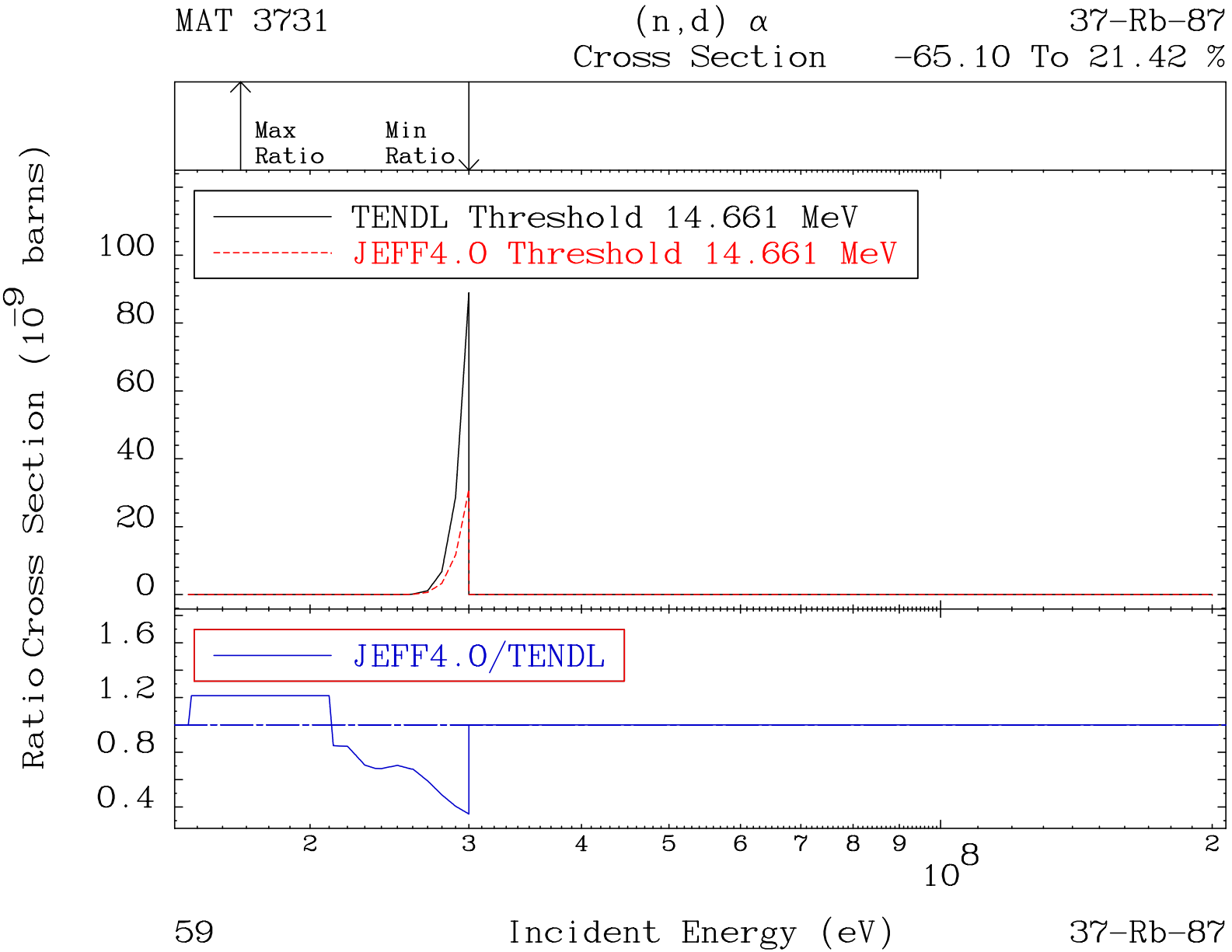

MAT 3731
(n,2α)
37-Rb-87
Cross Section 0.000 To 940.3 %
Min Ratio
Max Ratio
TENDL Threshold 9.2680 MeV
JEFF4.0 Threshold 9.2680 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
200
150
100
50
0
4
10^1
4
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
37-Rb-87

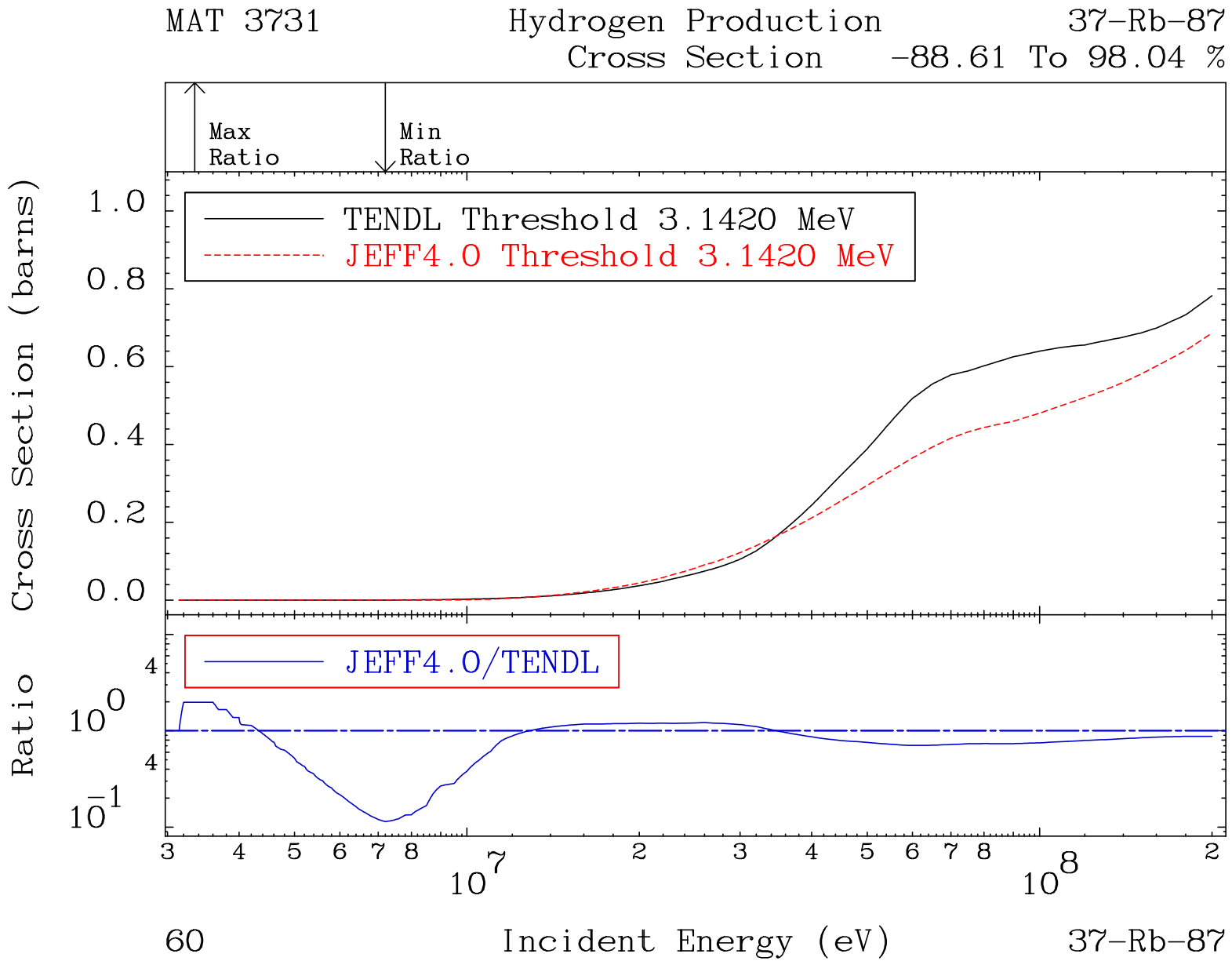

MAT 3731
(n,2p)
37-Rb-87
Cross Section
-87.66 To 85.70 %
Min Ratio
Max Ratio
TENDL Threshold 15.652 MeV
JEFF4.0 Threshold 15.652 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
1.6
1.2
0.8
0.4
0.0
4
10^{0}
4
10^{-1}
2
3
4
5
6
7
8
9
10^{8}
2
55
Incident Energy (eV)
37-Rb-87

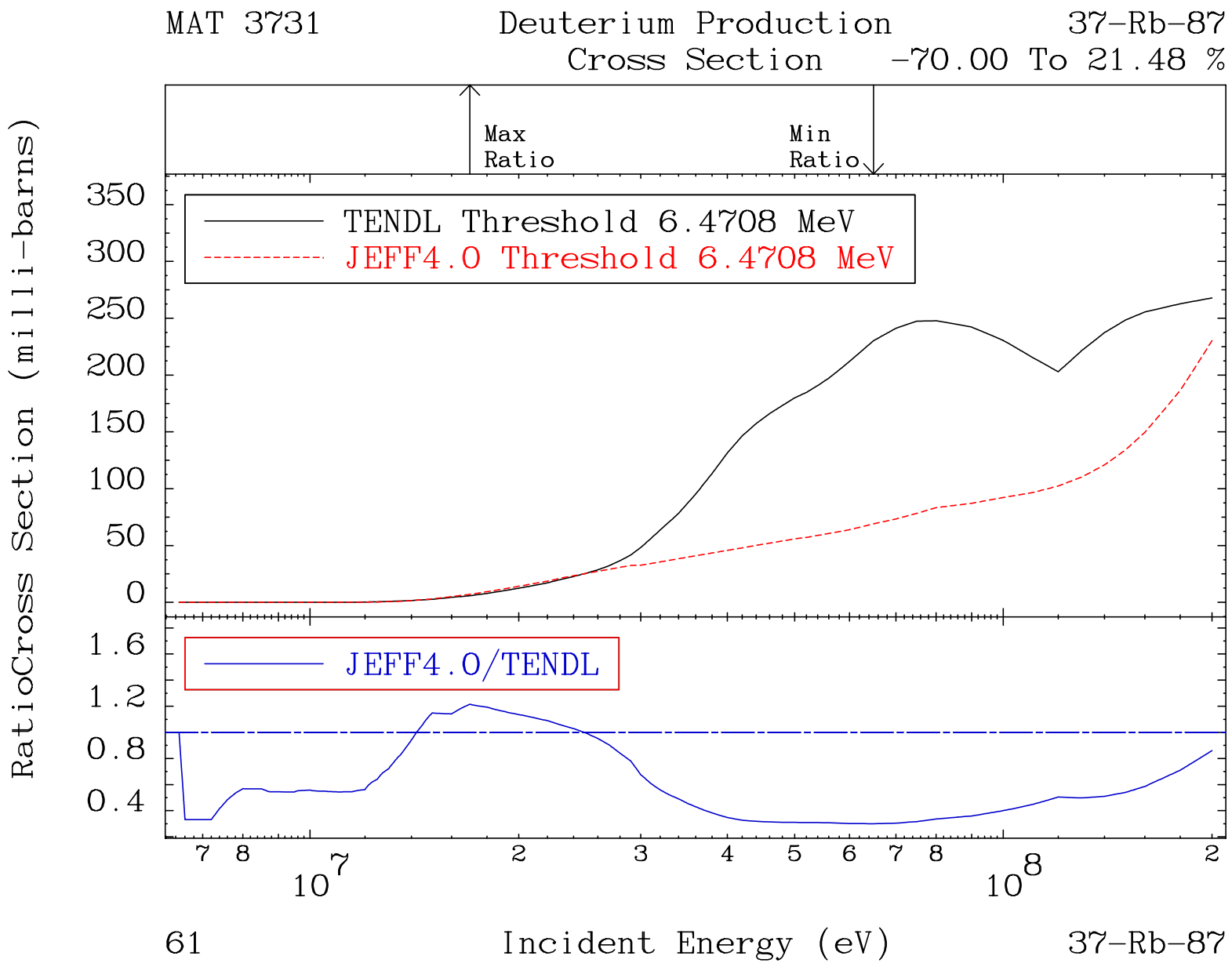

MAT 3731
(n,p) α
37-Rb-87
Cross Section
-71.92 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 11.026 MeV
JEFF4.0 Threshold 11.026 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
37-Rb-87

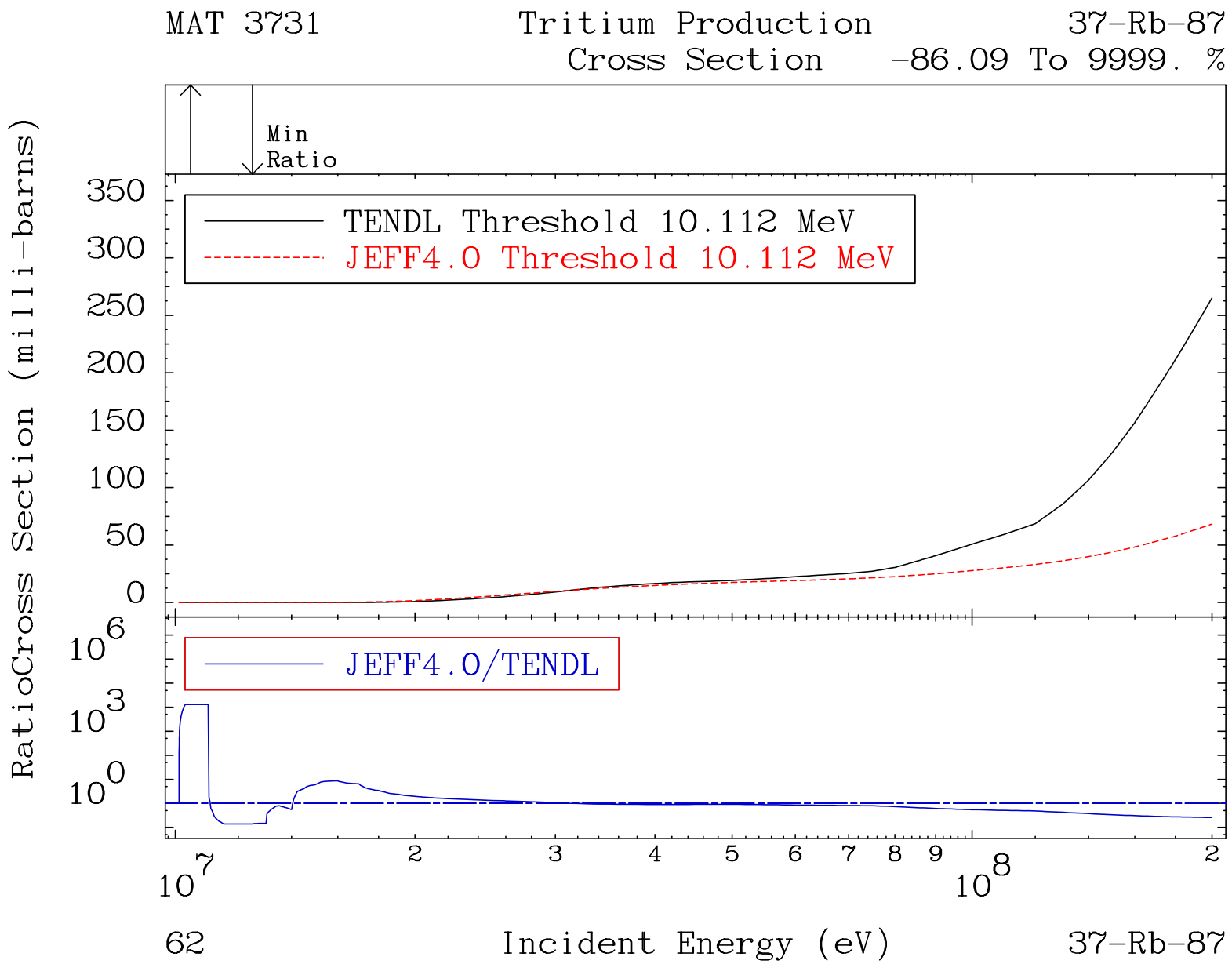

MAT 3731
(n,p) d
Cross Section
37-Rb-87
-95.95 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 18.589 MeV
JEFF4.0 Threshold 18.589 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
37-Rb-87

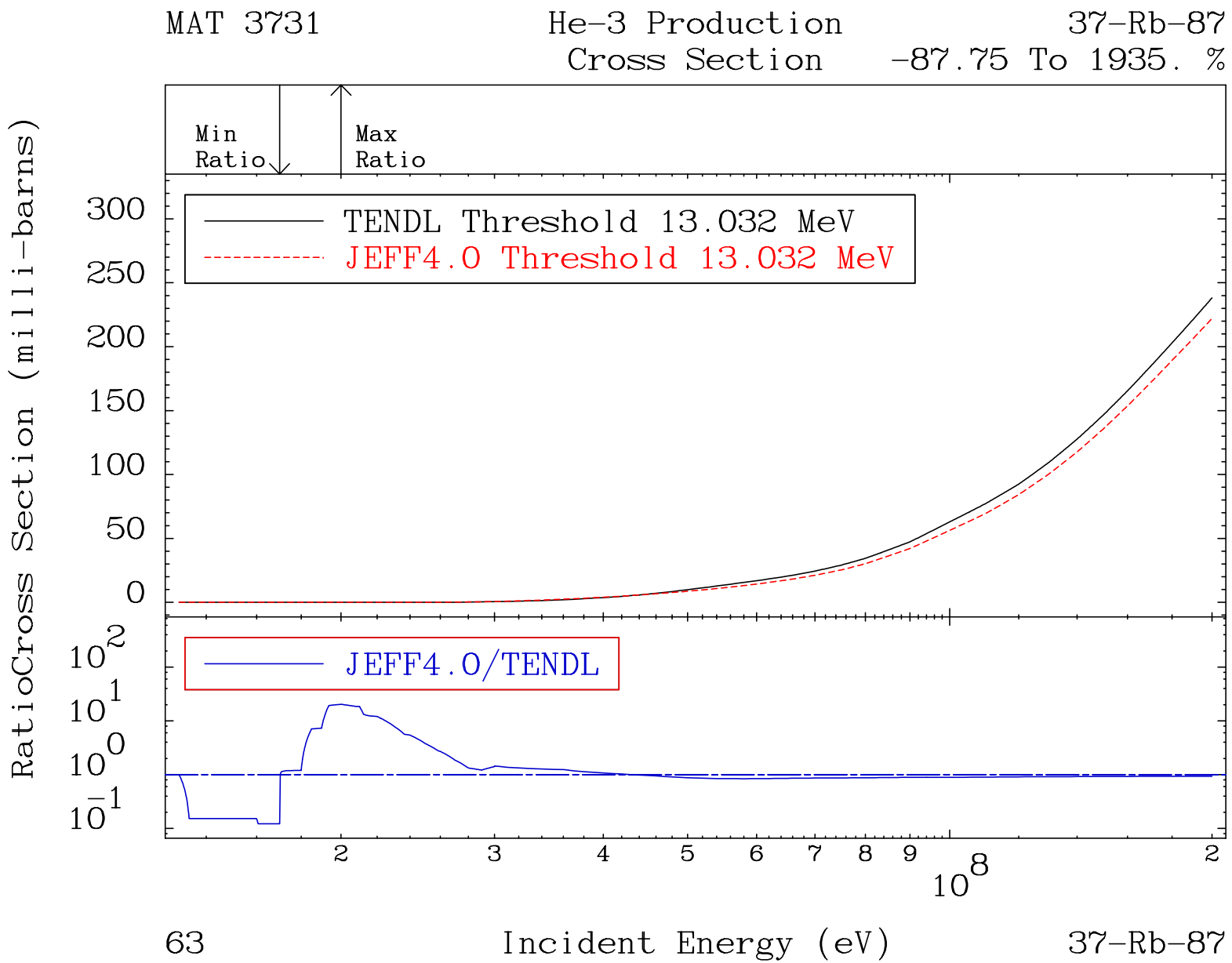

MAT 3731
(n,p) t
Cross Section
37-Rb-87
-89.63 To 0.000 %
Min
Ratio
TENDL Threshold 21.226 MeV
JEFF4.0 Threshold 21.226 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
35
30
25
20
15
10
5
0
1.2
0.8
0.4
0.0
20
40
60
80
100
120
140
160
180
200
58
Incident Energy (MeV)
37-Rb-87

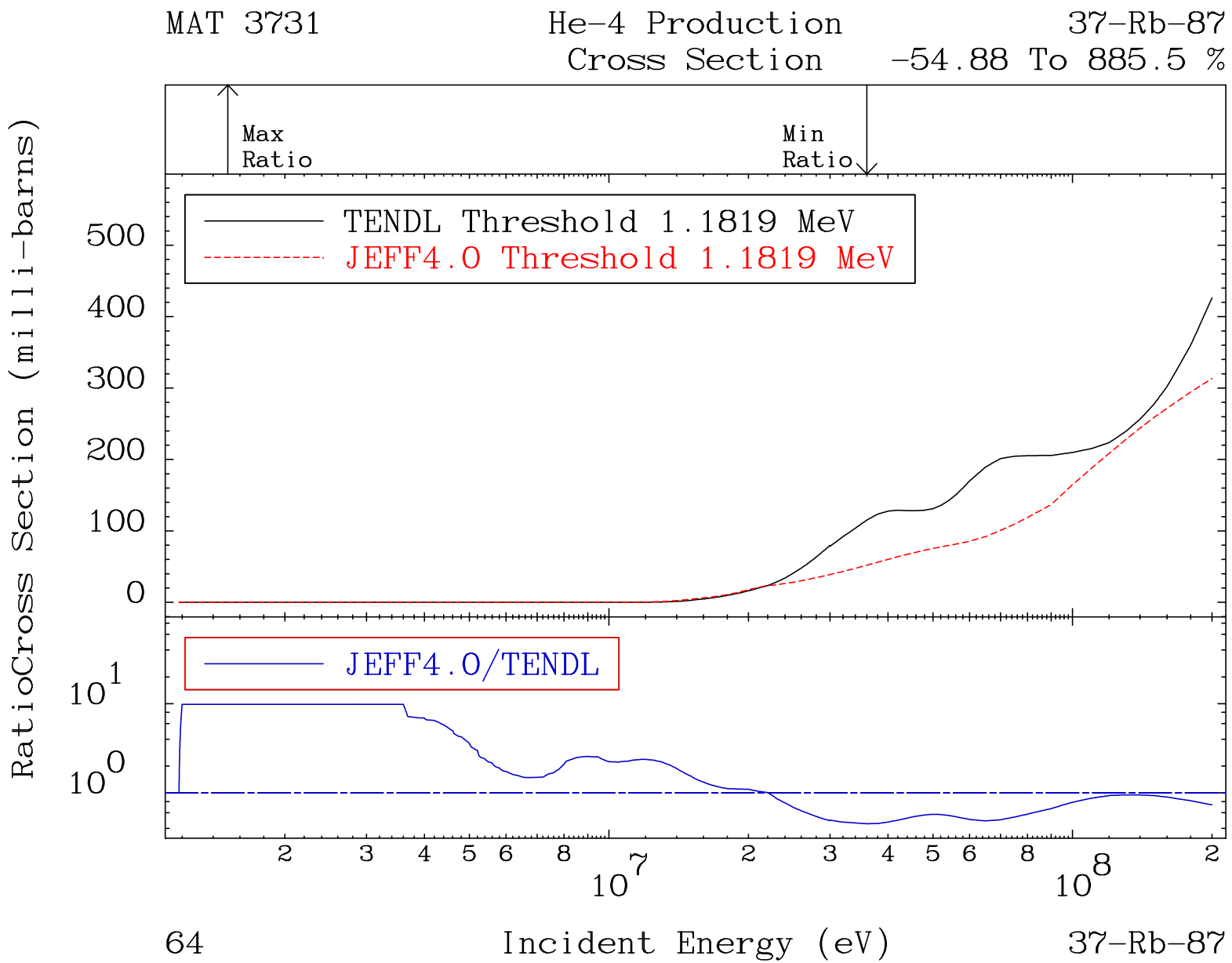

MAT 3731
(n,d) α
37-Rb-87
Cross Section
-65.10 To 21.42 %
Max Ratio
Min Ratio
TENDL Threshold 14.661 MeV
JEFF4.0 Threshold 14.661 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
100
80
60
40
20
0
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
37-Rb-87

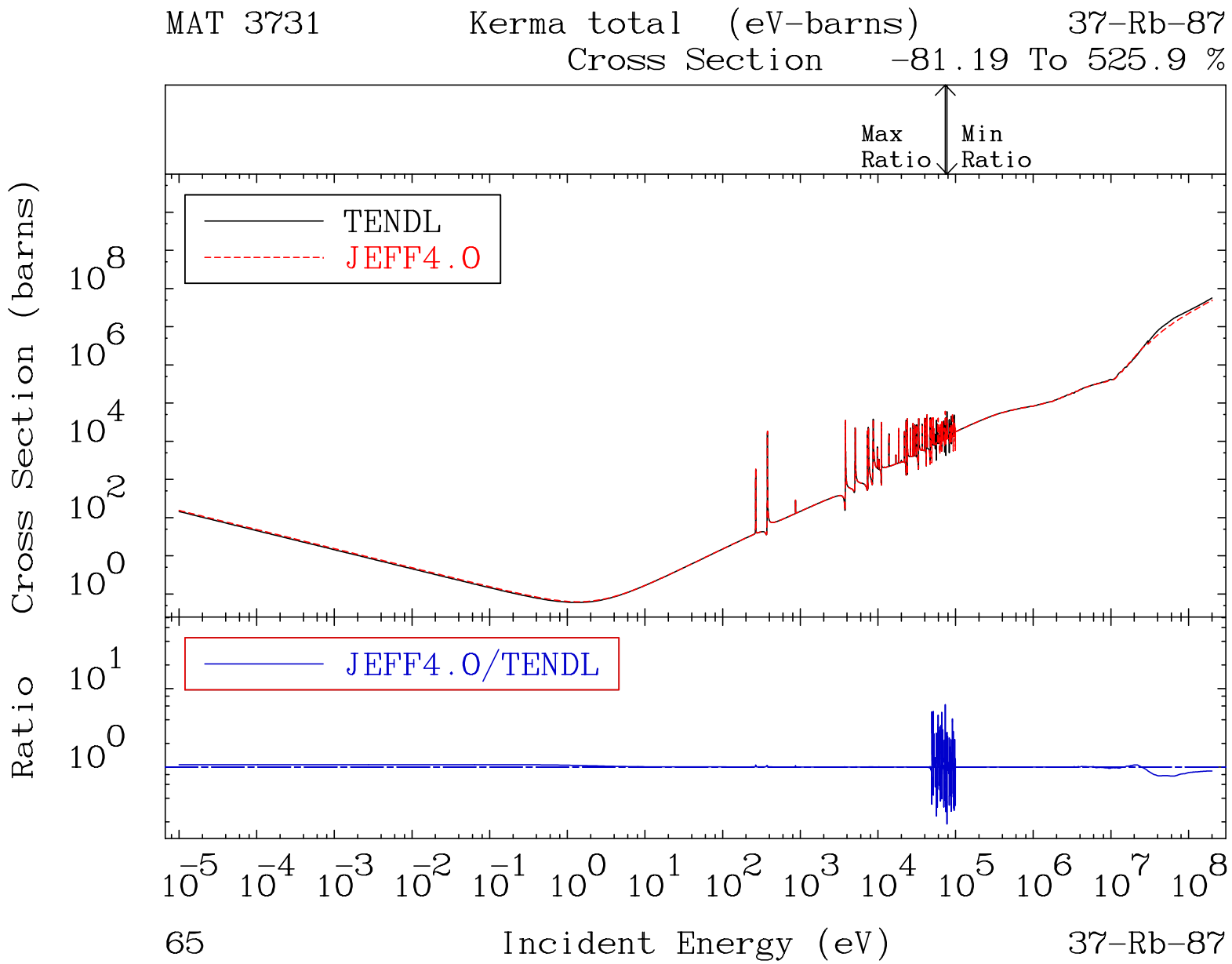

MAT 3731
Hydrogen Production
37-Rb-87
Cross Section
-88.61 To 98.04 %
Max Ratio
Min Ratio
TENDL Threshold 3.1420 MeV
JEFF4.0 Threshold 3.1420 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF4.0/TENDL
Ratio
4
10^{0}
4
10^{-1}
3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
60
Incident Energy (eV)
37-Rb-87

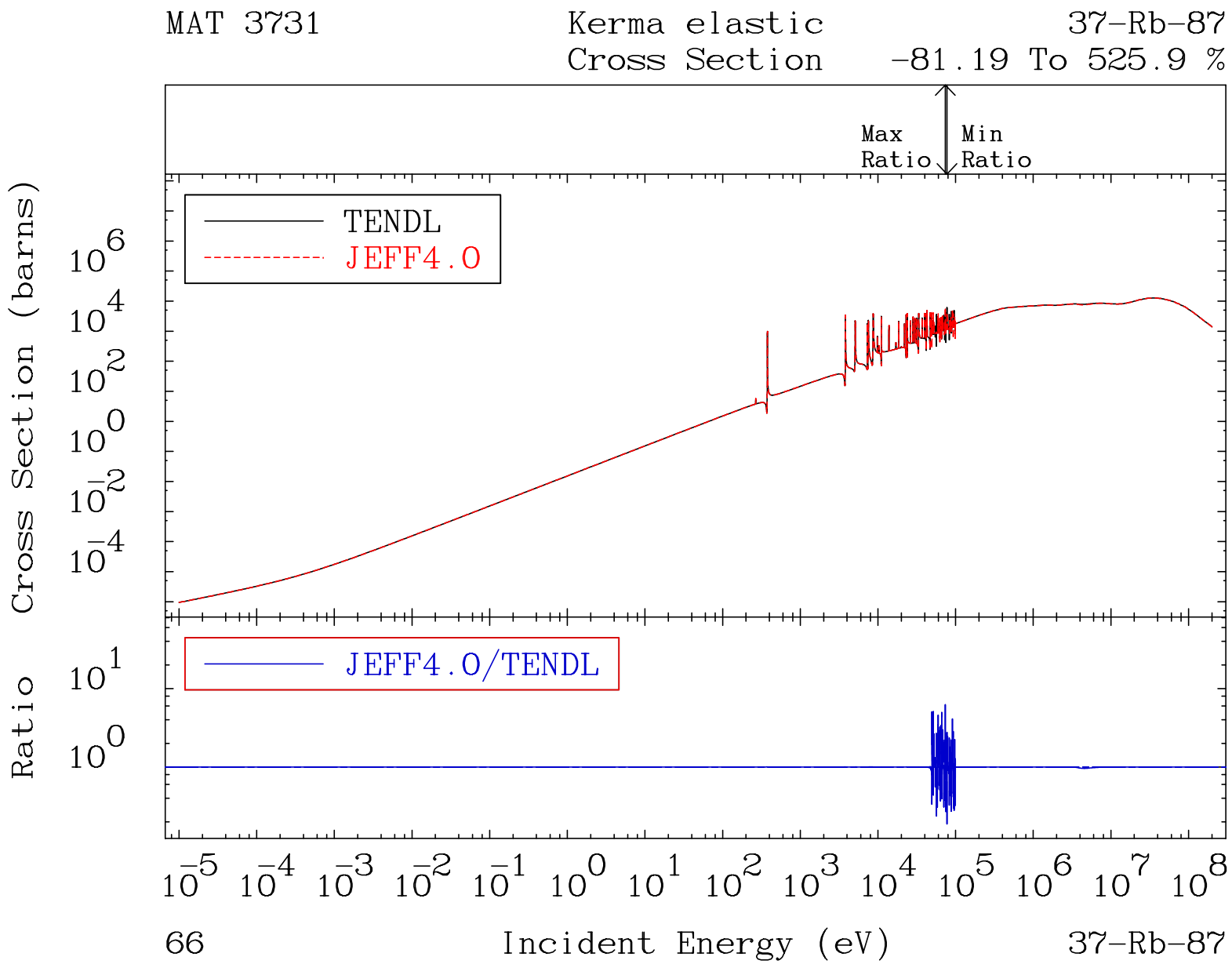

MAT 3731
Deuterium Production
37-Rb-87
Cross Section -70.00 To 21.48 %
Max Ratio
Min Ratio
TENDL Threshold 6.4708 MeV
JEFF4.0 Threshold 6.4708 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.6
1.2
0.8
0.4
7 8 10^7 2 3 4 5 6 7 8 10^8 2
61
Incident Energy (eV)
37-Rb-87

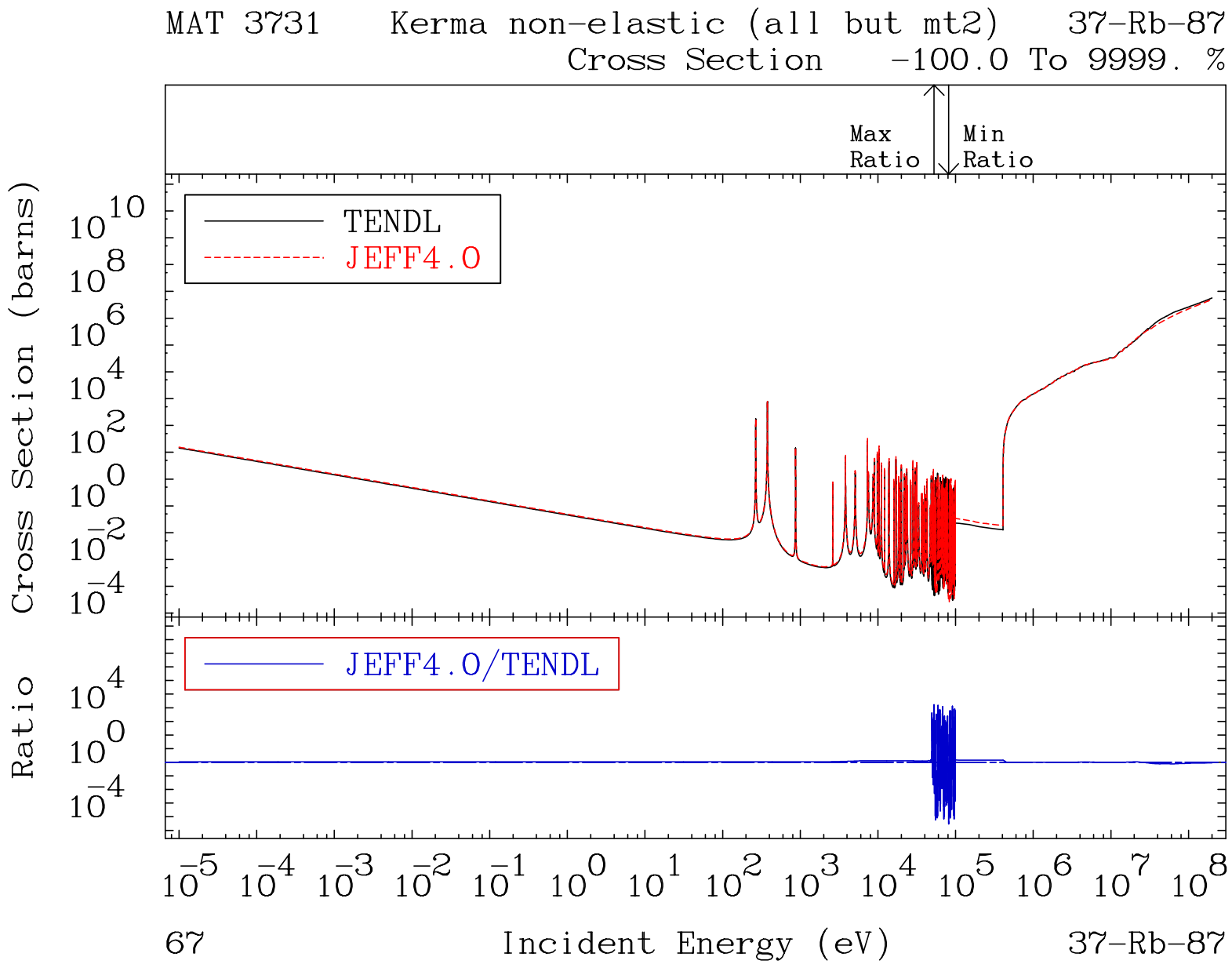

MAT 3731
Tritium Production
37-Rb-87
Cross Section
-86.09 To 9999. %
Min
Ratio
TENDL Threshold 10.112 MeV
JEFF4.0 Threshold 10.112 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
10^6
10^3
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
37-Rb-87

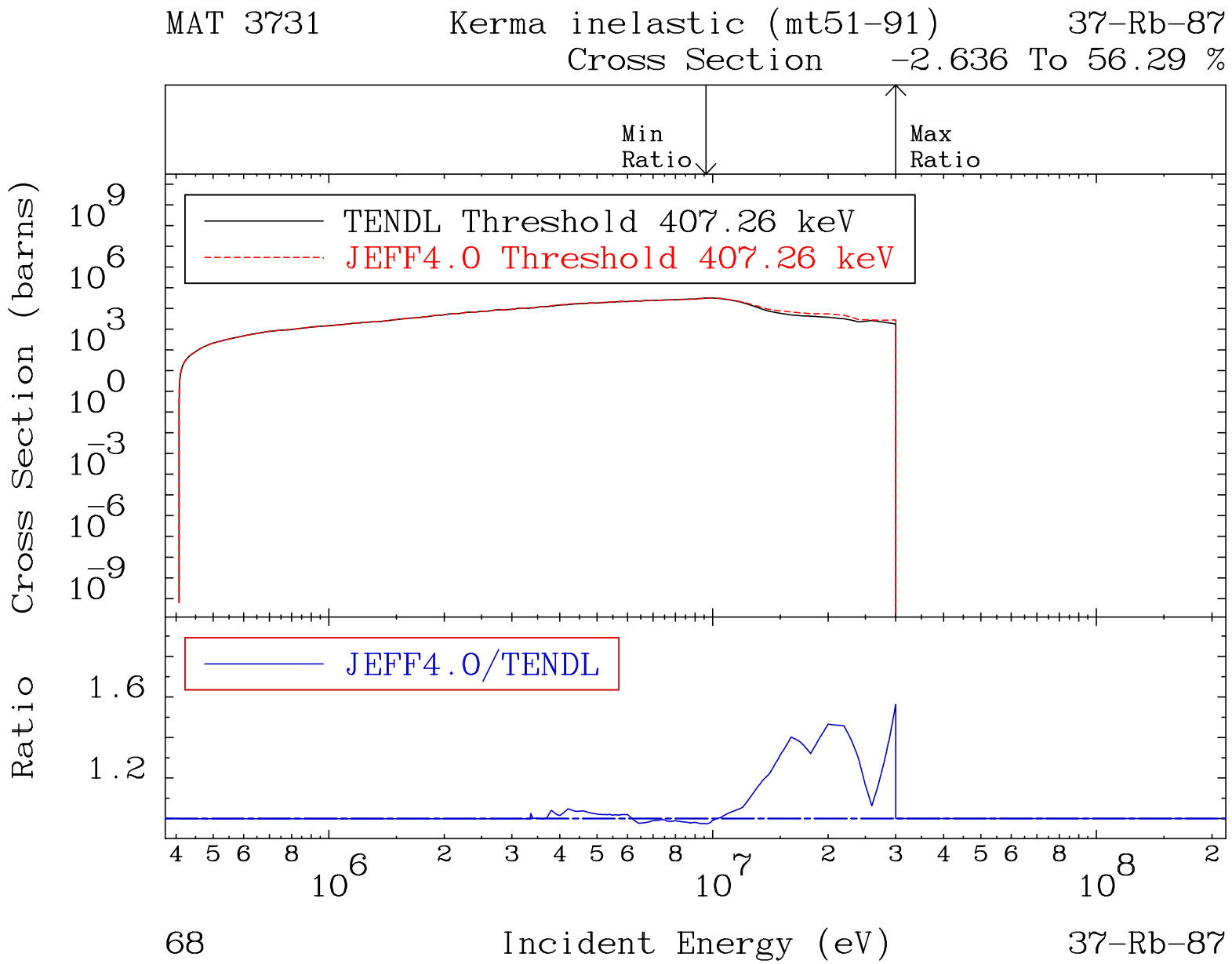

MAT 3731
He-3 Production
Cross Section
37-Rb-87
-87.75 To 1935. %
Min Ratio
Max Ratio
TENDL Threshold 13.032 MeV
JEFF4.0 Threshold 13.032 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
10^2
10^1
10^0
10^{-1}
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
37-Rb-87

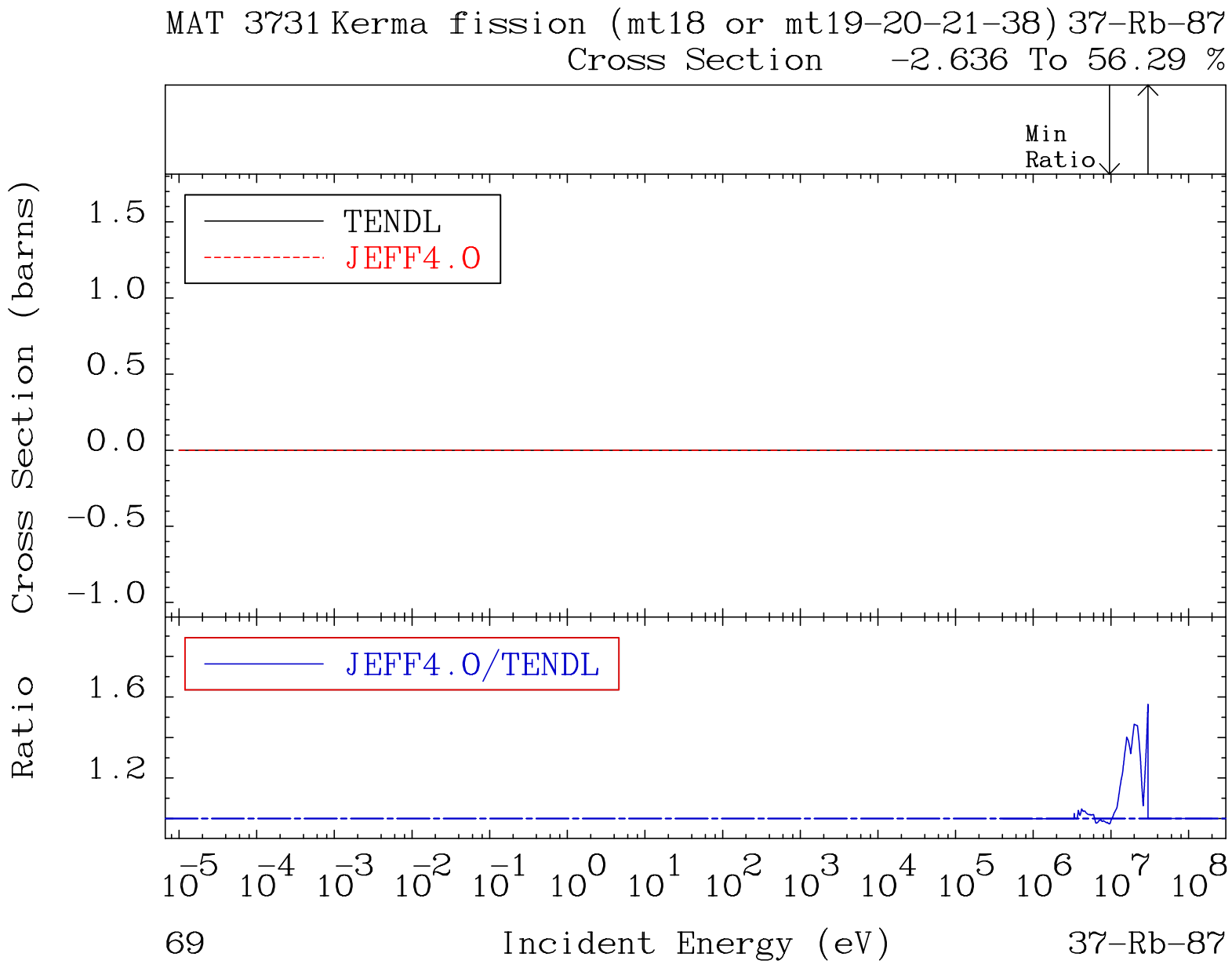

MAT 3731
He-4 Production
Cross Section
37-Rb-87
-54.88 To 885.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.1819 MeV
JEFF4.0 Threshold 1.1819 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
10^1
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
64
Incident Energy (eV)
37-Rb-87

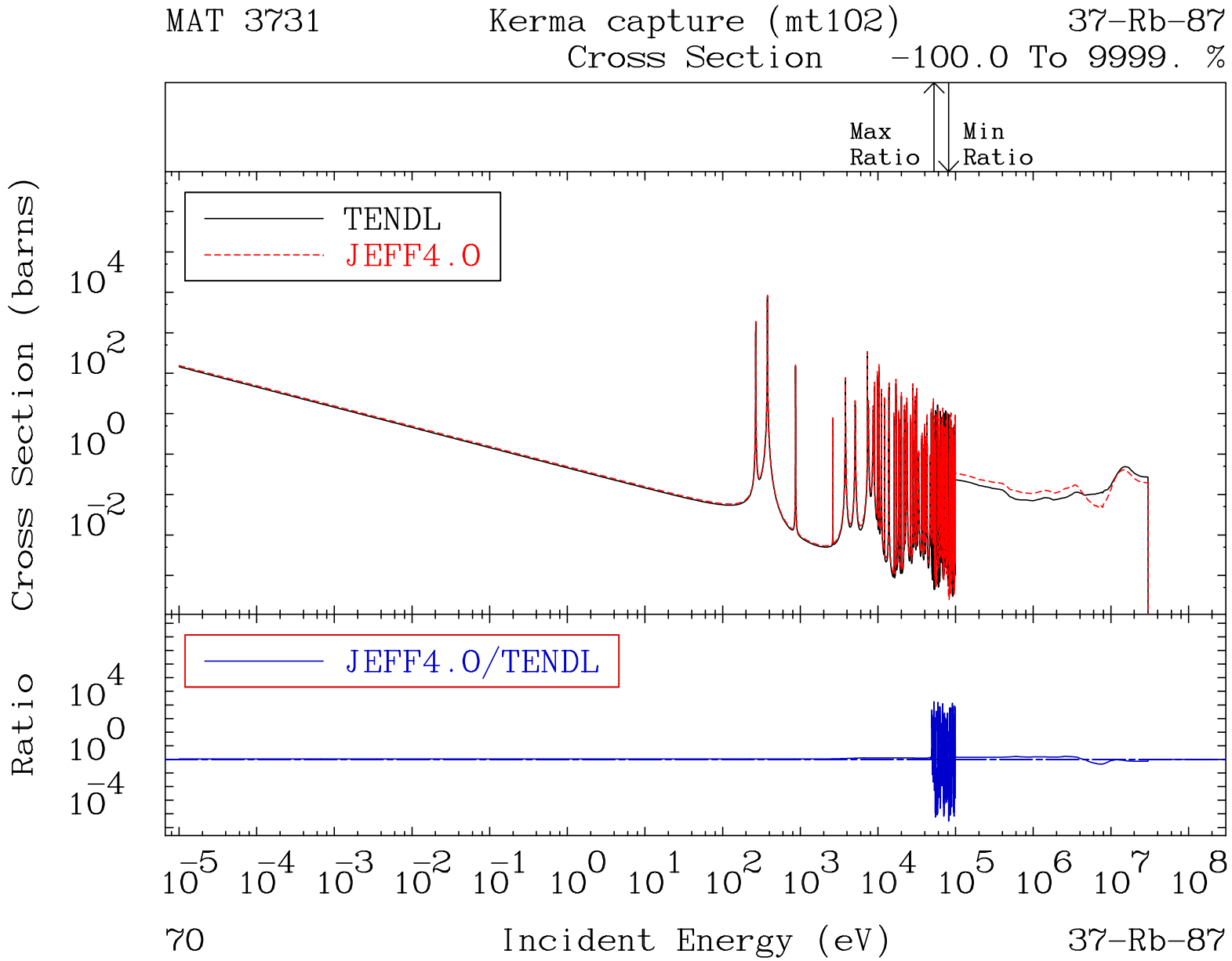

MAT 3731
Kerma total (eV-barns)
37-Rb-87
Cross Section -81.19 To 525.9 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
65
37-Rb-87

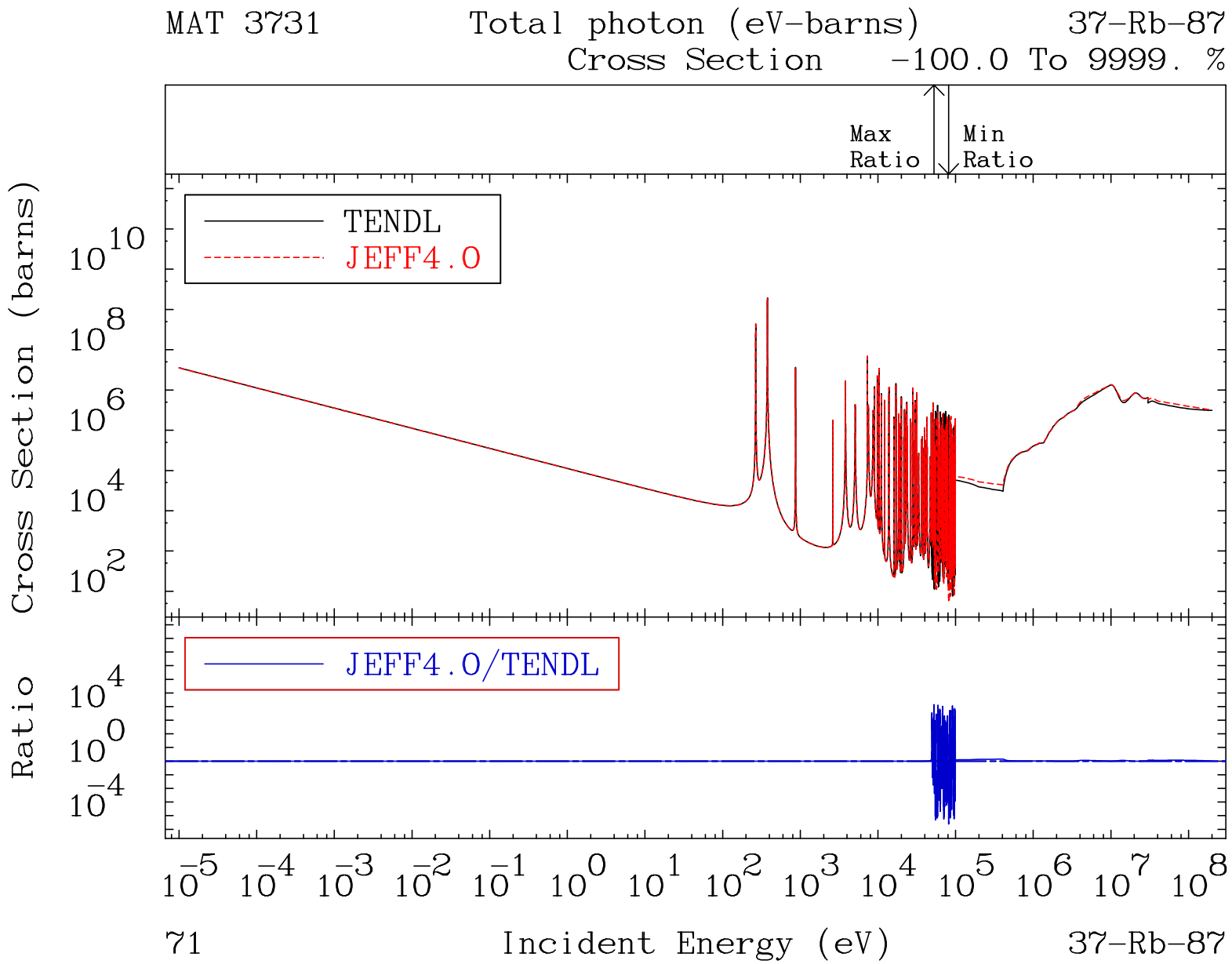

MAT 3731
Kerma elastic
Cross Section
37-Rb-87
-81.19 To 525.9 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
37-Rb-87

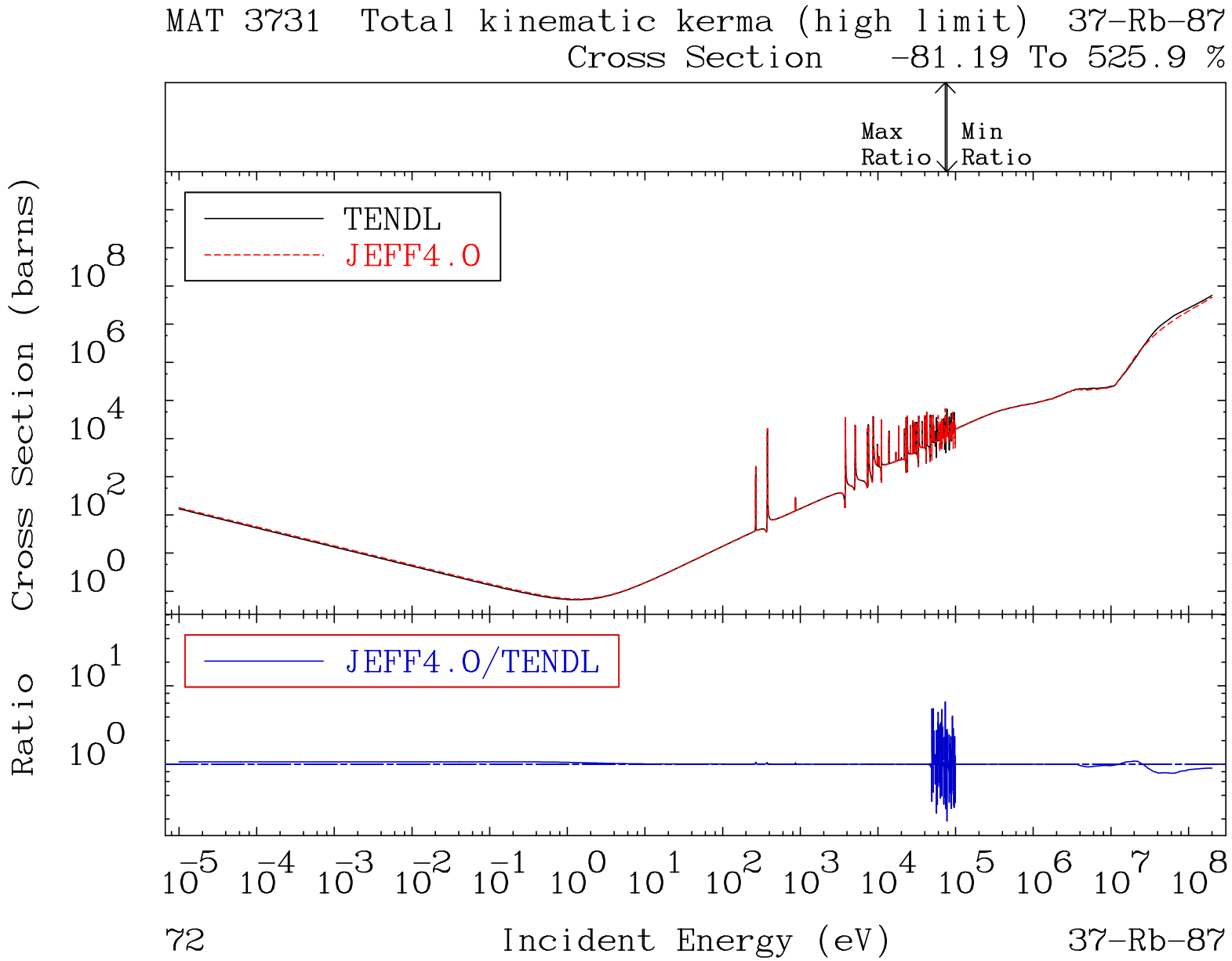

MAT 3731 Kerma non-elastic (all but mt2) 37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
37-Rb-87

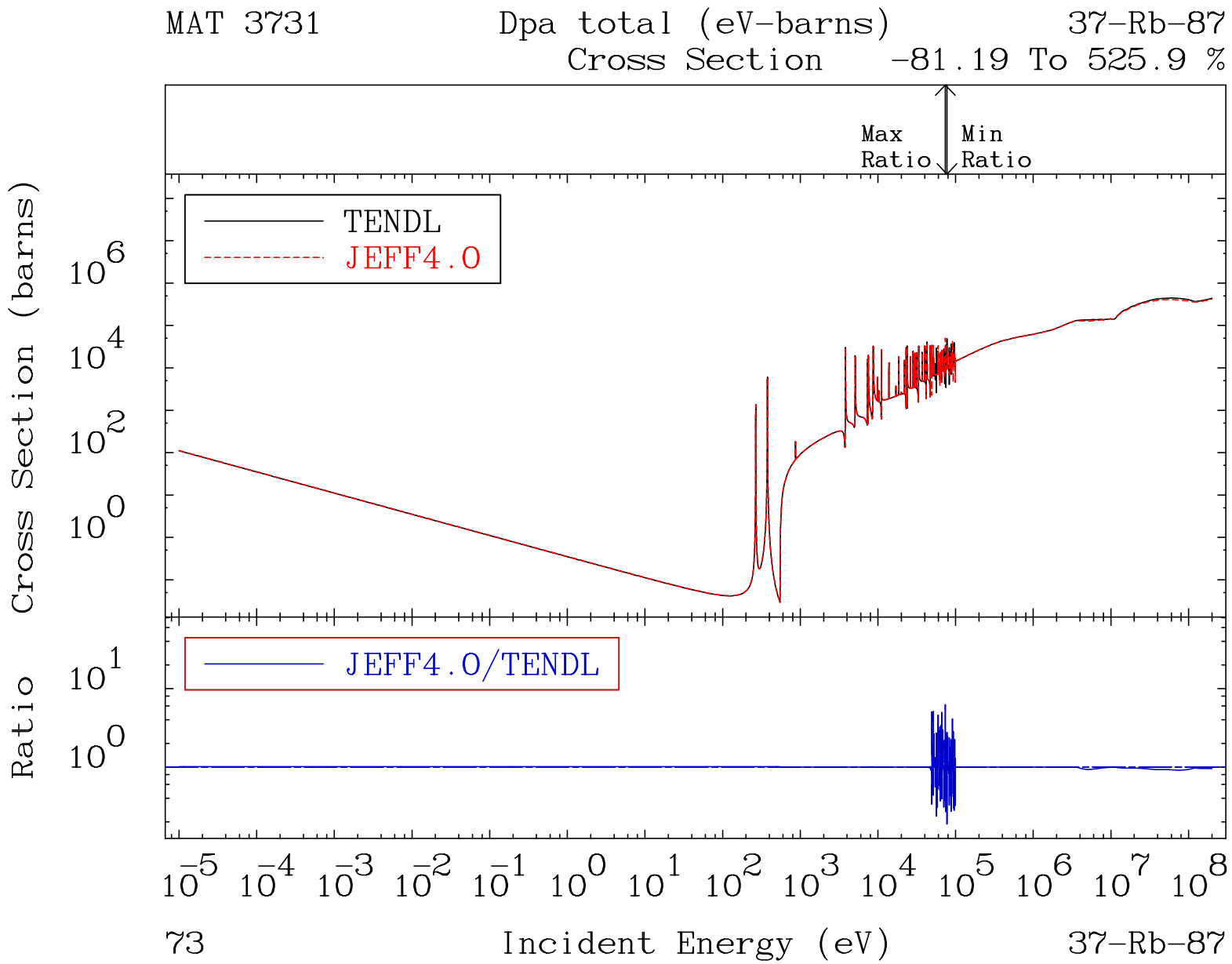

MAT 3731
Kerma inelastic (mt51-91)
37-Rb-87
Cross Section
-2.636 To 56.29 %
Min Ratio
Max Ratio
TENDL Threshold 407.26 keV
JEFF4.0 Threshold 407.26 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
68
37-Rb-87

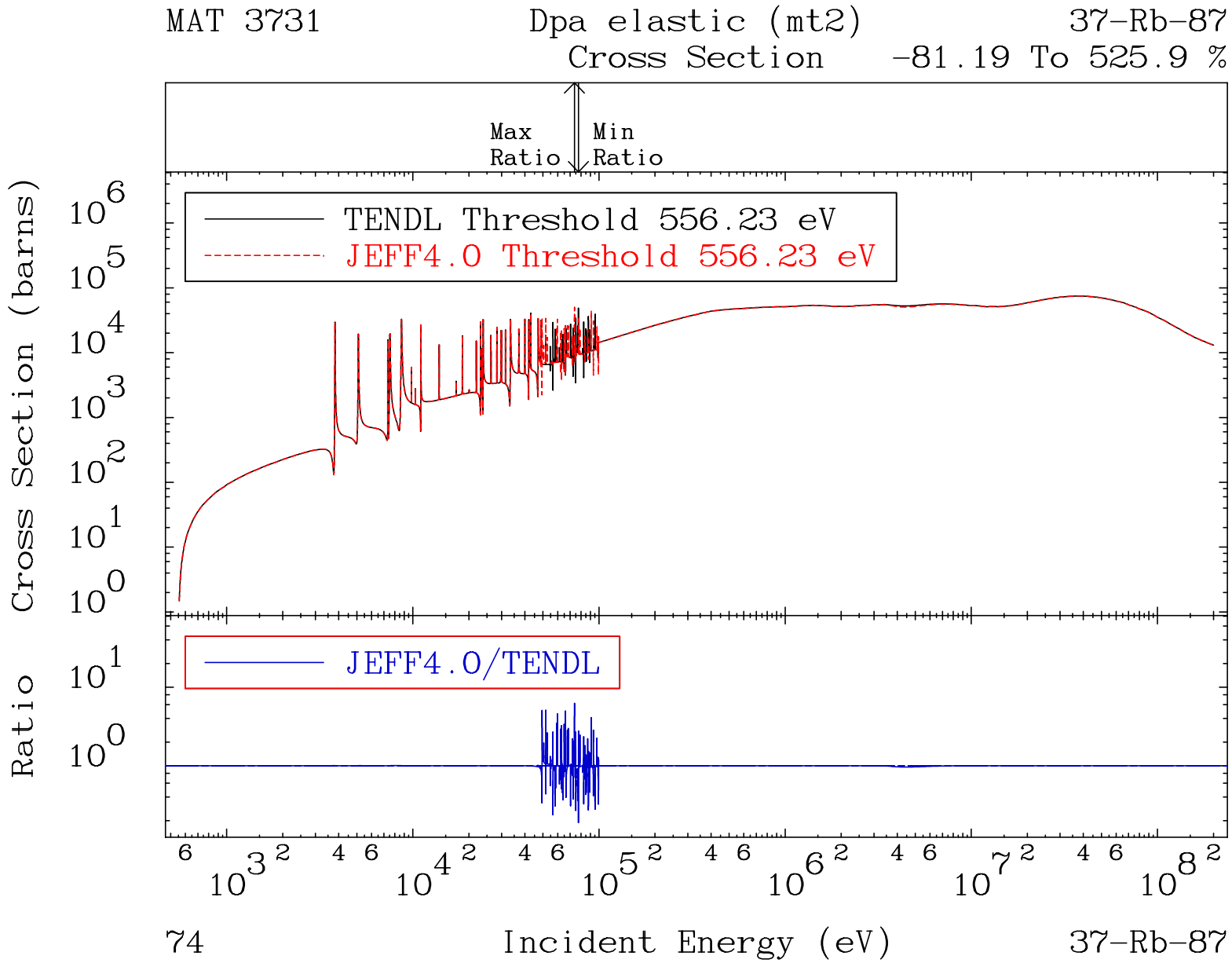

MAT 3731 Kerma fission (mt18 or mt19-20-21-38) 37-Rb-87
Cross Section -2.636 To 56.29 %
Min
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
69
Incident Energy (eV)
37-Rb-87

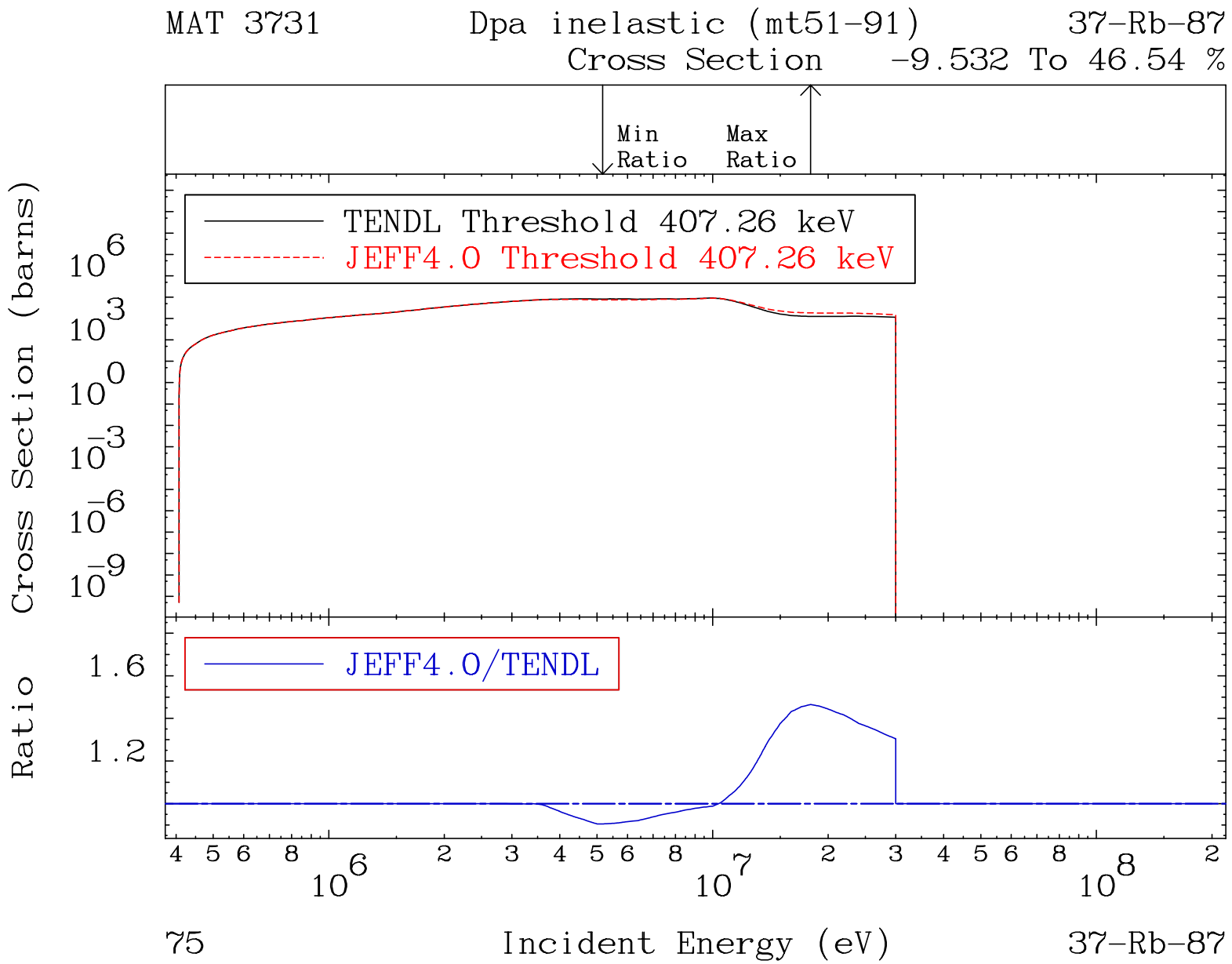

MAT 3731
Kerma capture (mt102)
37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
70
37-Rb-87

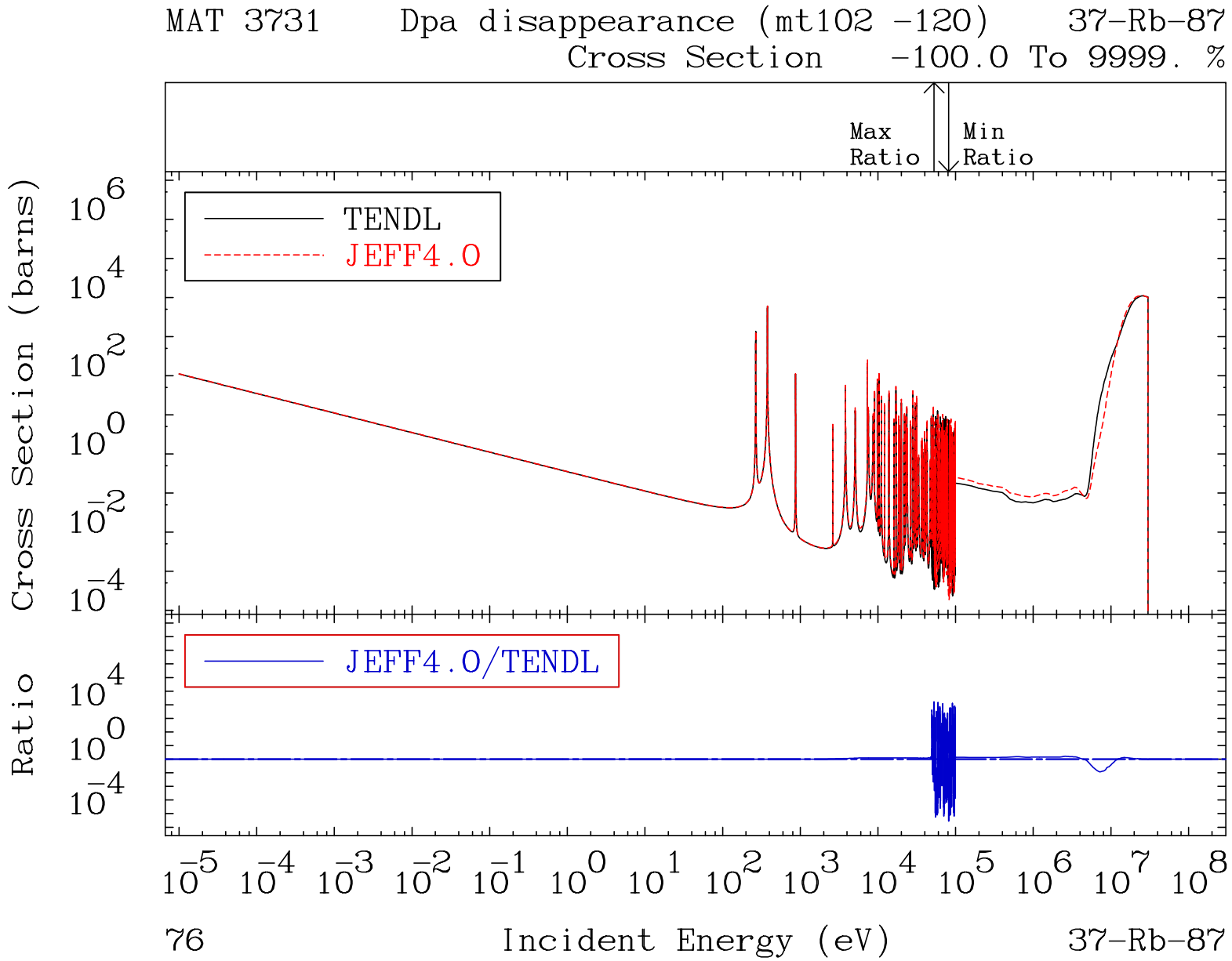

MAT 3731
Total photon (eV-barns)
37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
71
37-Rb-87

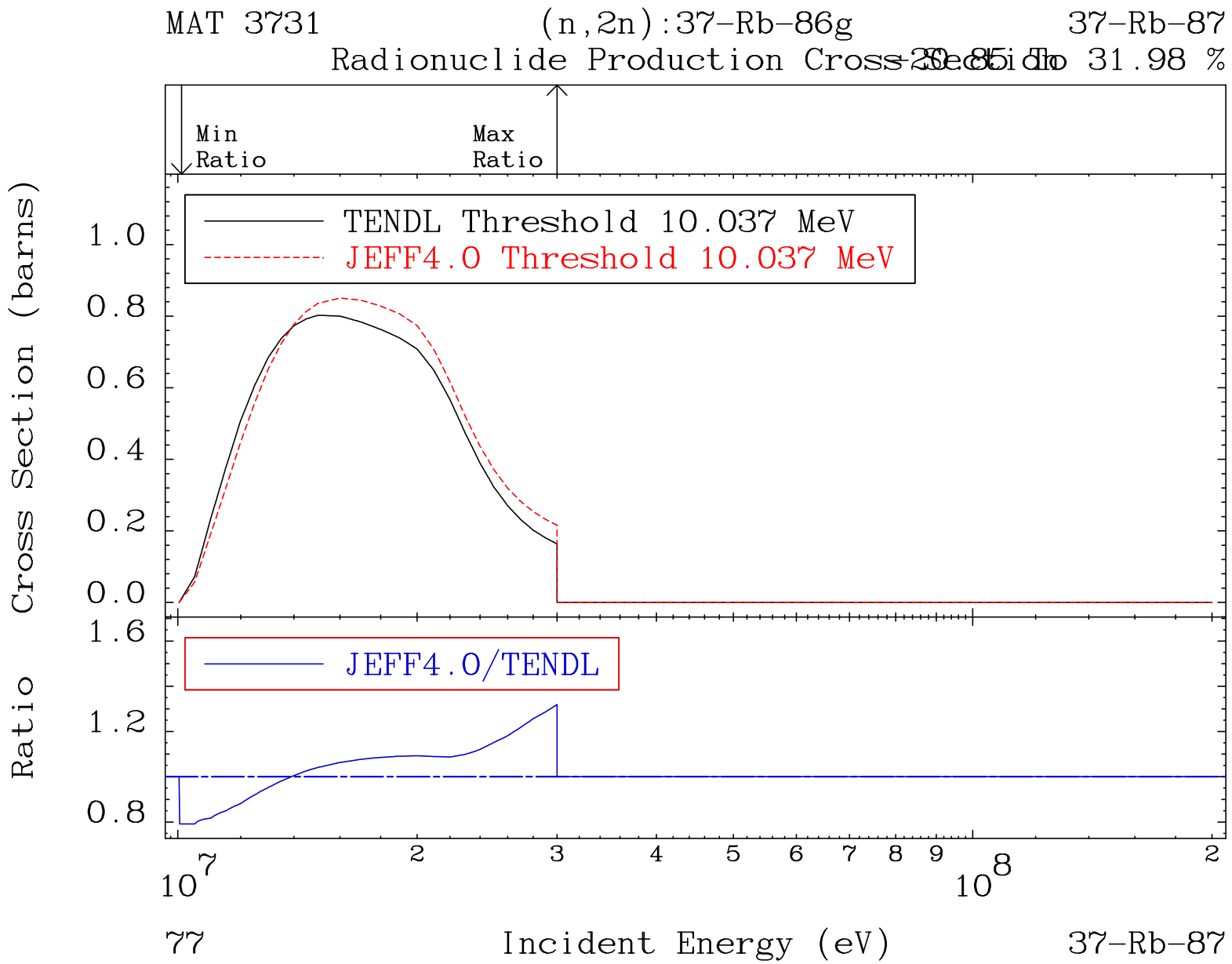

MAT 3731 Total kinematic kerma (high limit) 37-Rb-87
Cross Section -81.19 To 525.9 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
37-Rb-87

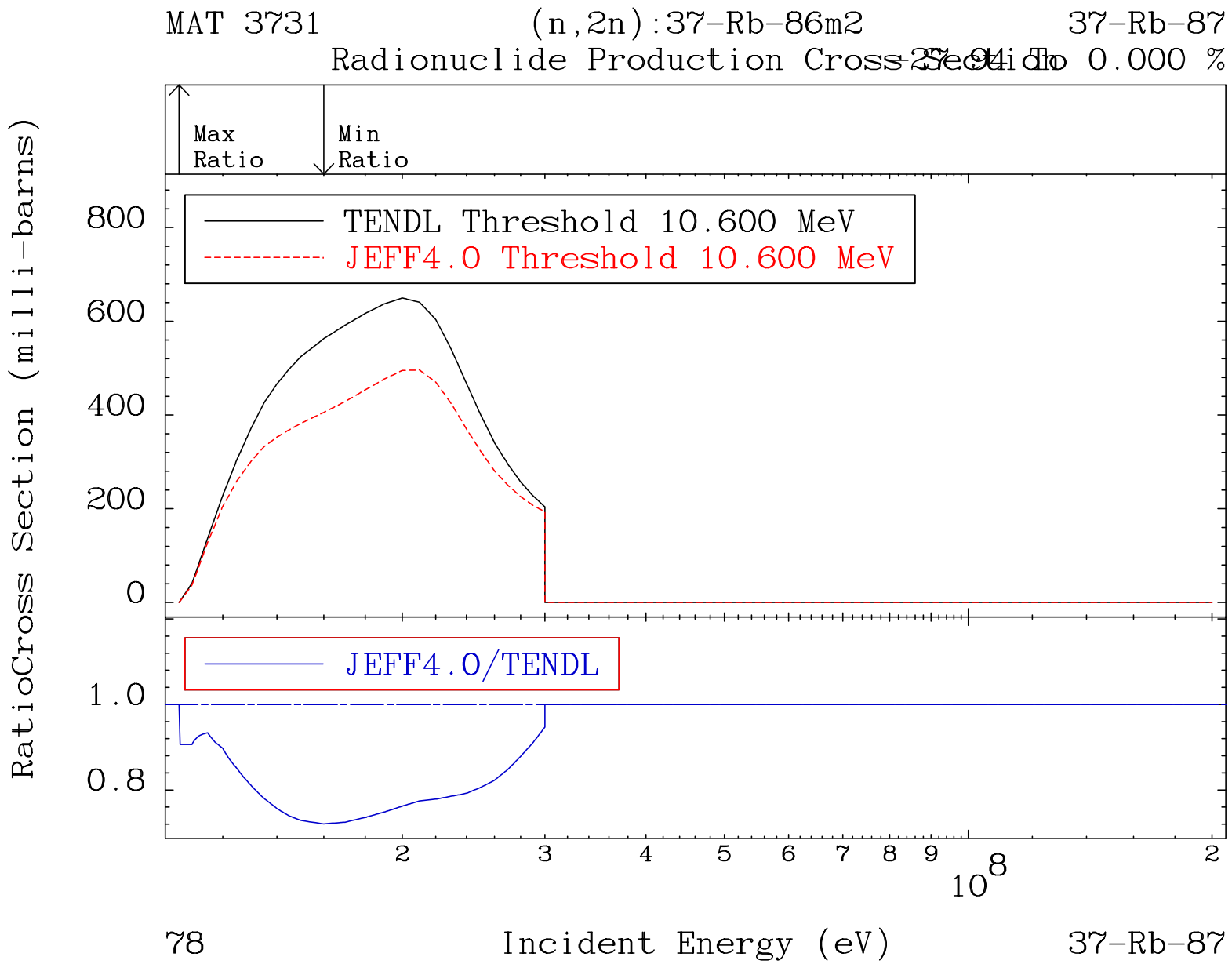

MAT 3731
Dpa total (eV-barns)
37-Rb-87
Cross Section -81.19 To 525.9 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
37-Rb-87

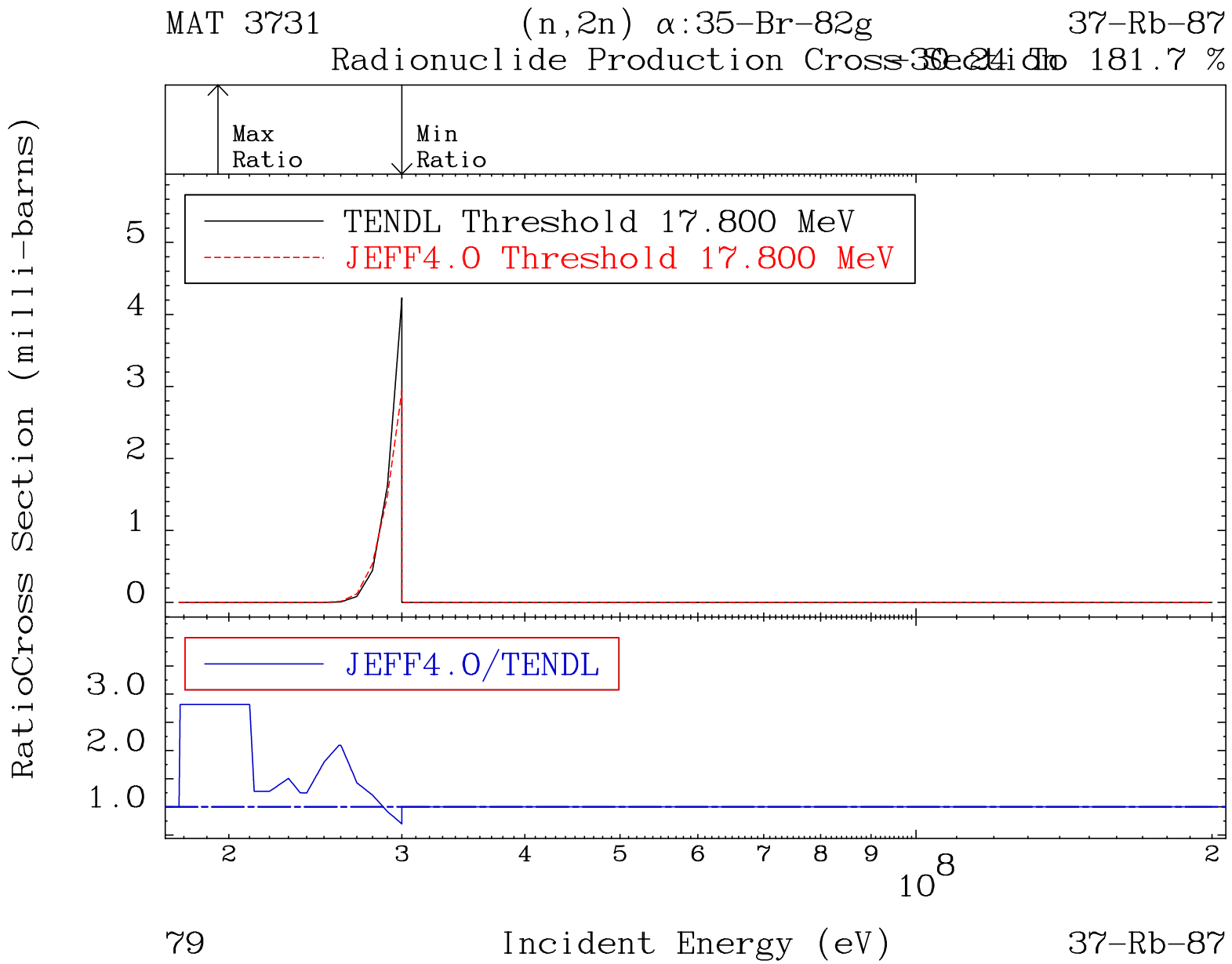

MAT 3731
Dpa elastic (mt2)
Cross Section
37-Rb-87
-81.19 To 525.9 %
Max Ratio
Min Ratio
TENDL Threshold 556.23 eV
JEFF4.0 Threshold 556.23 eV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
37-Rb-87

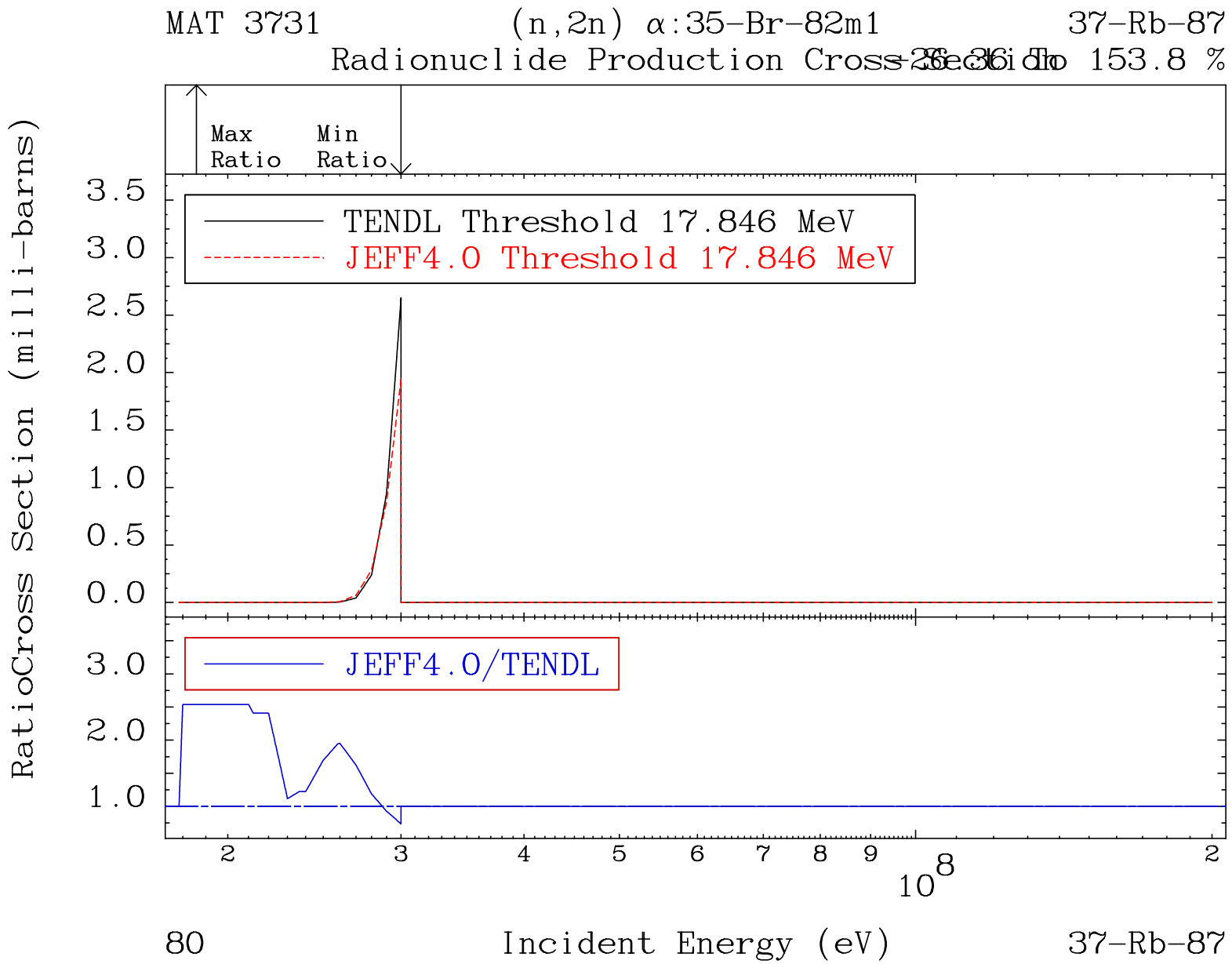

MAT 3731
Dpa inelastic (mt51-91)
37-Rb-87
Cross Section
-9.532 To 46.54 %
Min Ratio
Max Ratio
TENDL Threshold 407.26 keV
JEFF4.0 Threshold 407.26 keV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
JEFF4.0/TENDL
Ratio
1.6
1.2
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
75
37-Rb-87

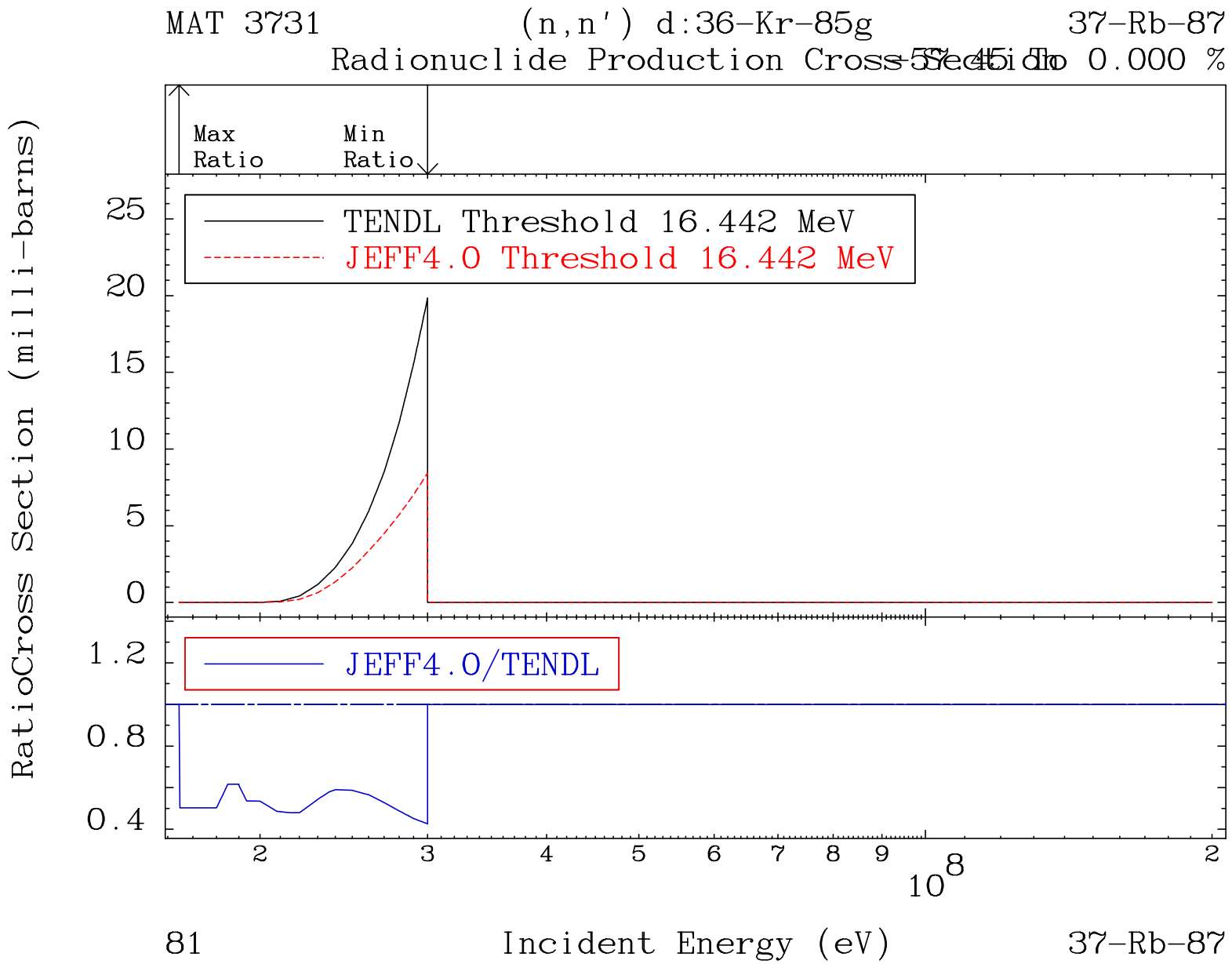

MAT 3731 Dpa disappearance (mt102 -120) 37-Rb-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
37-Rb-87

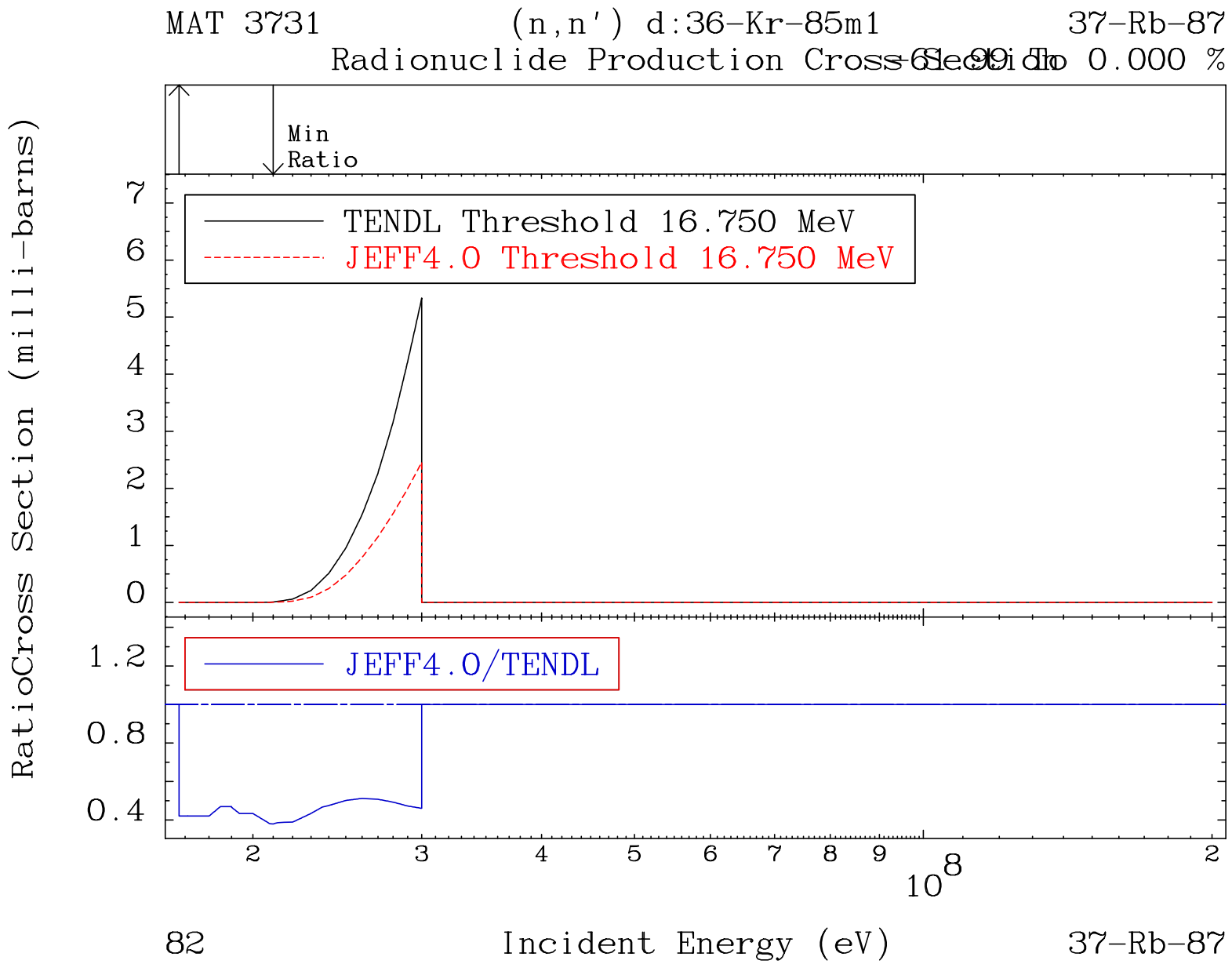

MAT 3731
(n,2n):37-Rb-86g
37-Rb-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 10.037 MeV
JEFF4.0 Threshold 10.037 MeV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
37-Rb-87

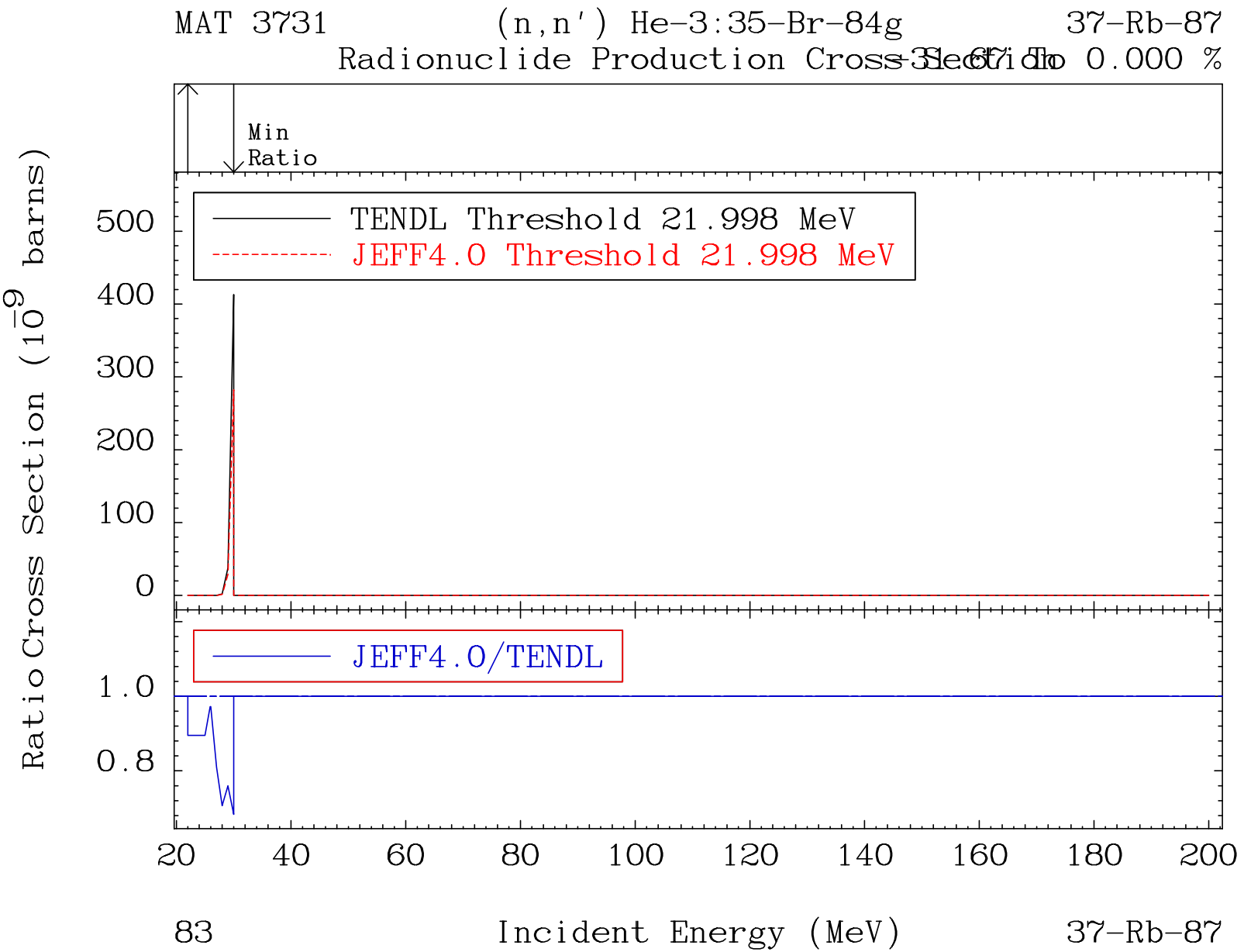

MAT 3731
(n,2n):37-Rb-86m2
37-Rb-87
Radionuclide Production Cross Section
0.000 %
Max Ratio
Min Ratio
TENDL Threshold 10.600 MeV
JEFF4.0 Threshold 10.600 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.0
0.8
2
3
4
5
6
7
8
9
2
10^8
78
Incident Energy (eV)
37-Rb-87

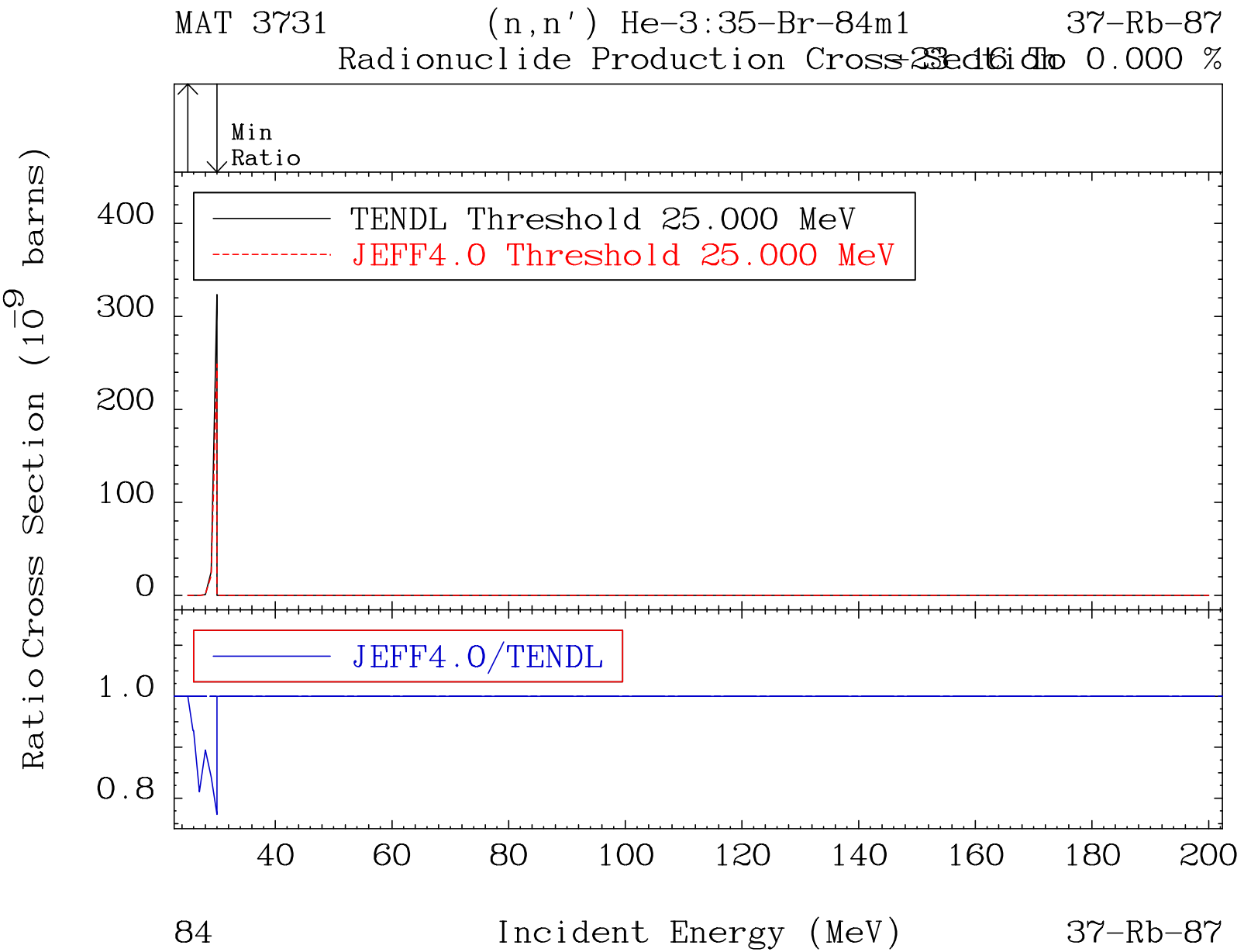

MAT 3731
(n,2n) α:35-Br-82g
37-Rb-87
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 17.800 MeV
JEFF4.0 Threshold 17.800 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
37-Rb-87

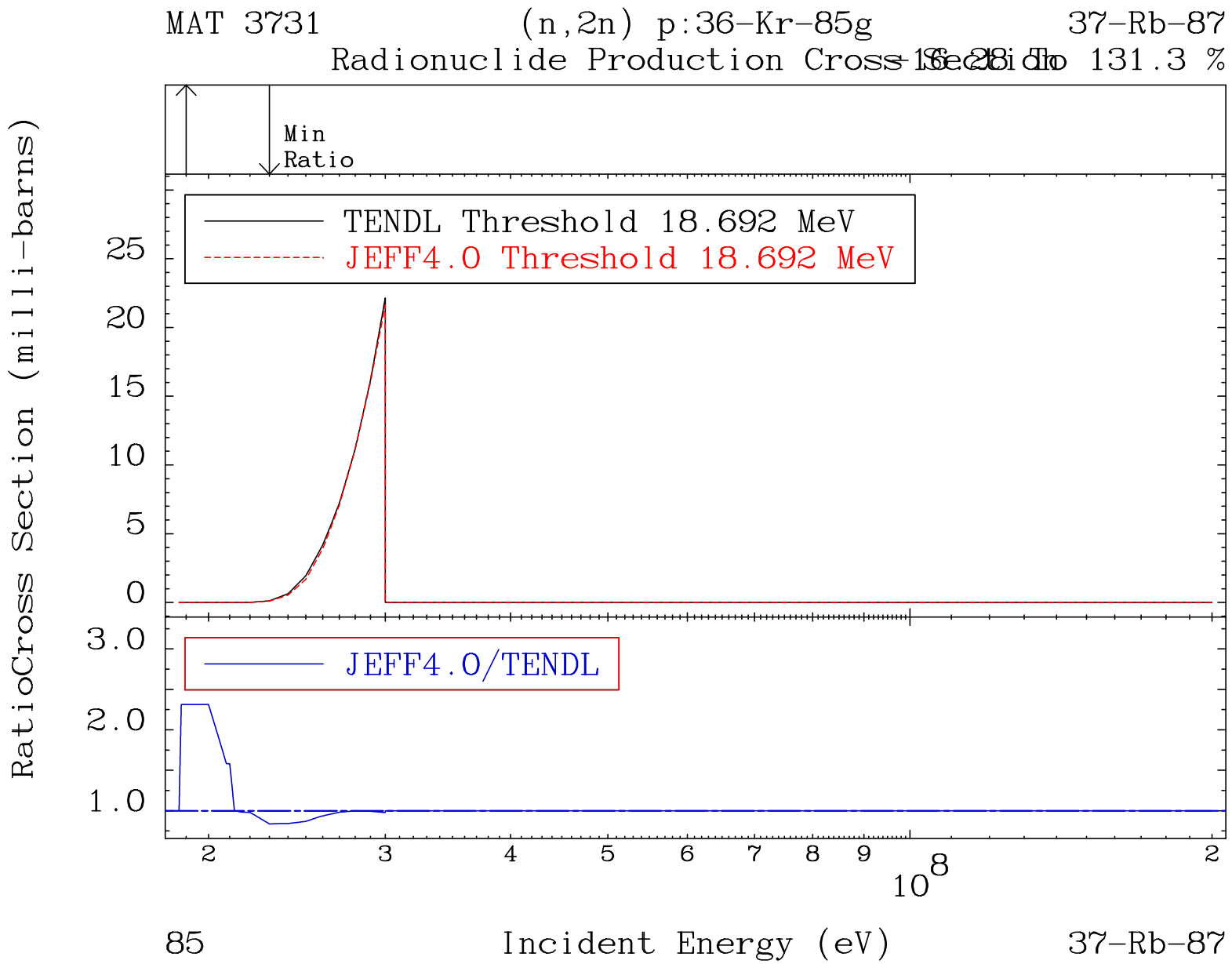

MAT 3731
(n,2n) α:35-Br-82m1
37-Rb-87
Radionuclide Production Cross Section To 153.8 %
Max Ratio
Min Ratio
TENDL Threshold 17.846 MeV
JEFF4.0 Threshold 17.846 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
37-Rb-87

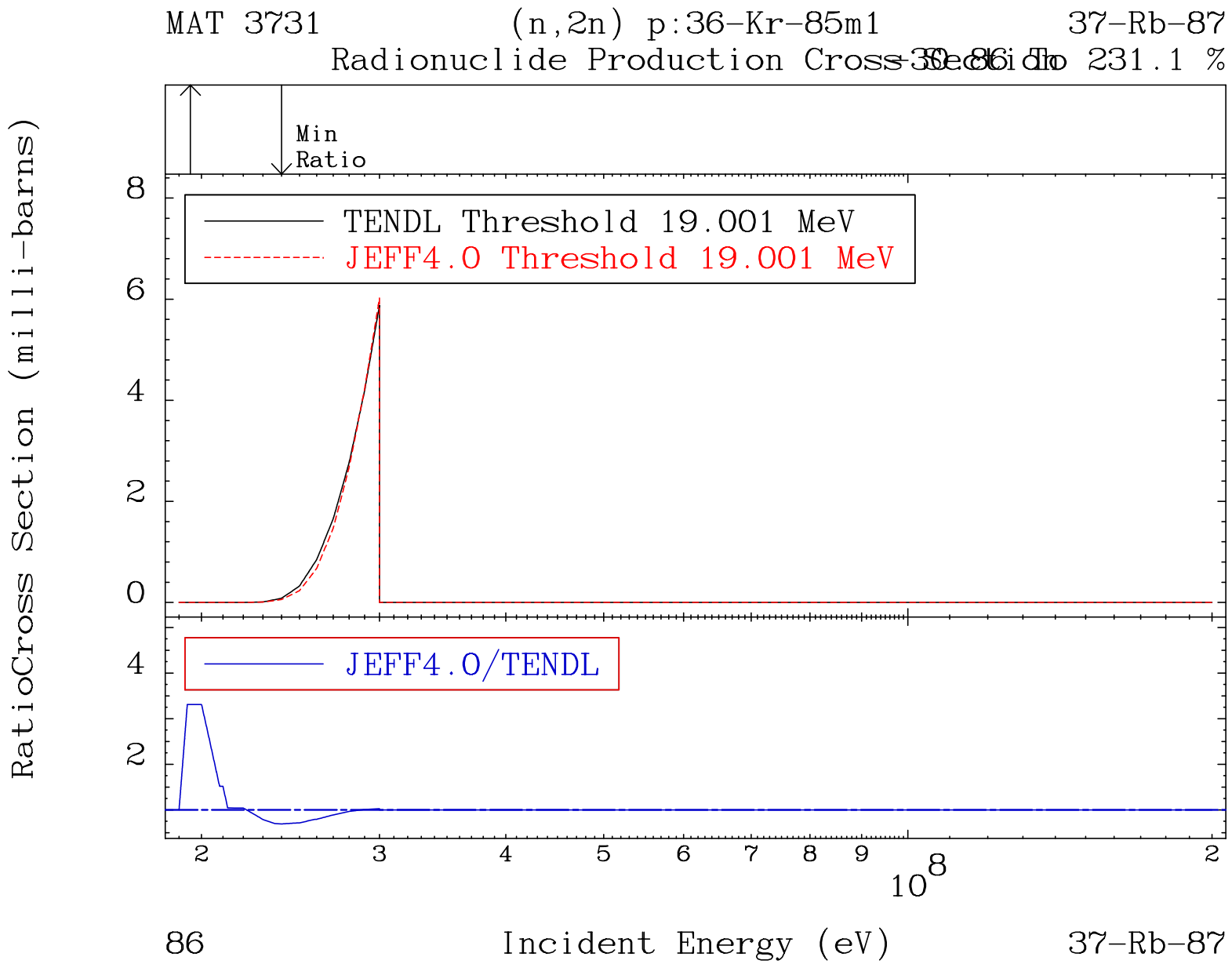

MAT 3731
(n,n') d:36-Kr-85g
37-Rb-87
Radionuclide Production Cross Section
Uncertainty 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 16.442 MeV
JEFF4.0 Threshold 16.442 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
37-Rb-87

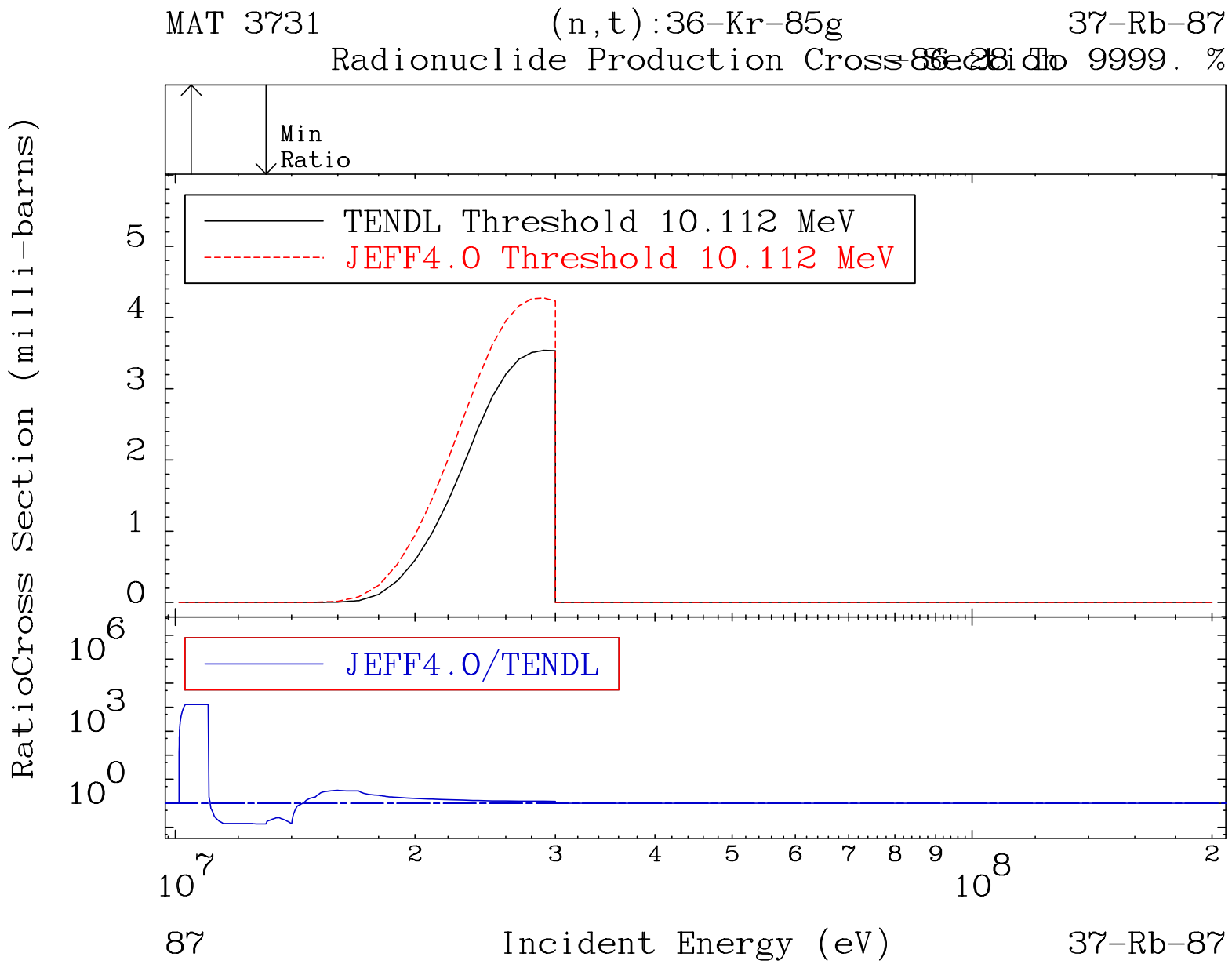

MAT 3731
(n,n') d:36-Kr-85m1
37-Rb-87
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 16.750 MeV
JEFF4.0 Threshold 16.750 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
37-Rb-87

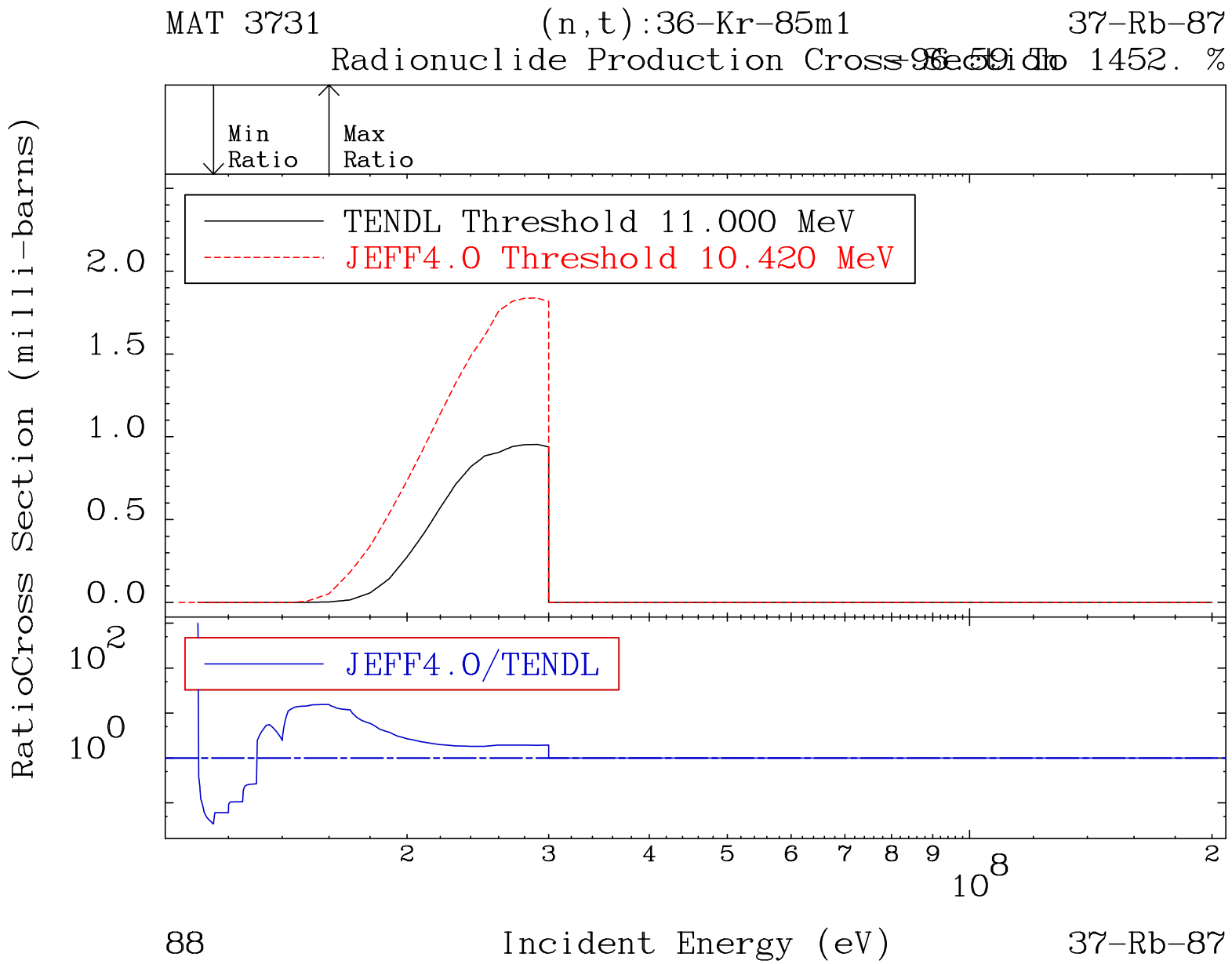

MAT 3731
(n,n') He-3:35-Br-84g
37-Rb-87
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 21.998 MeV
JEFF4.0 Threshold 21.998 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
500
400
300
200
100
0
1.0
0.8
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
37-Rb-87

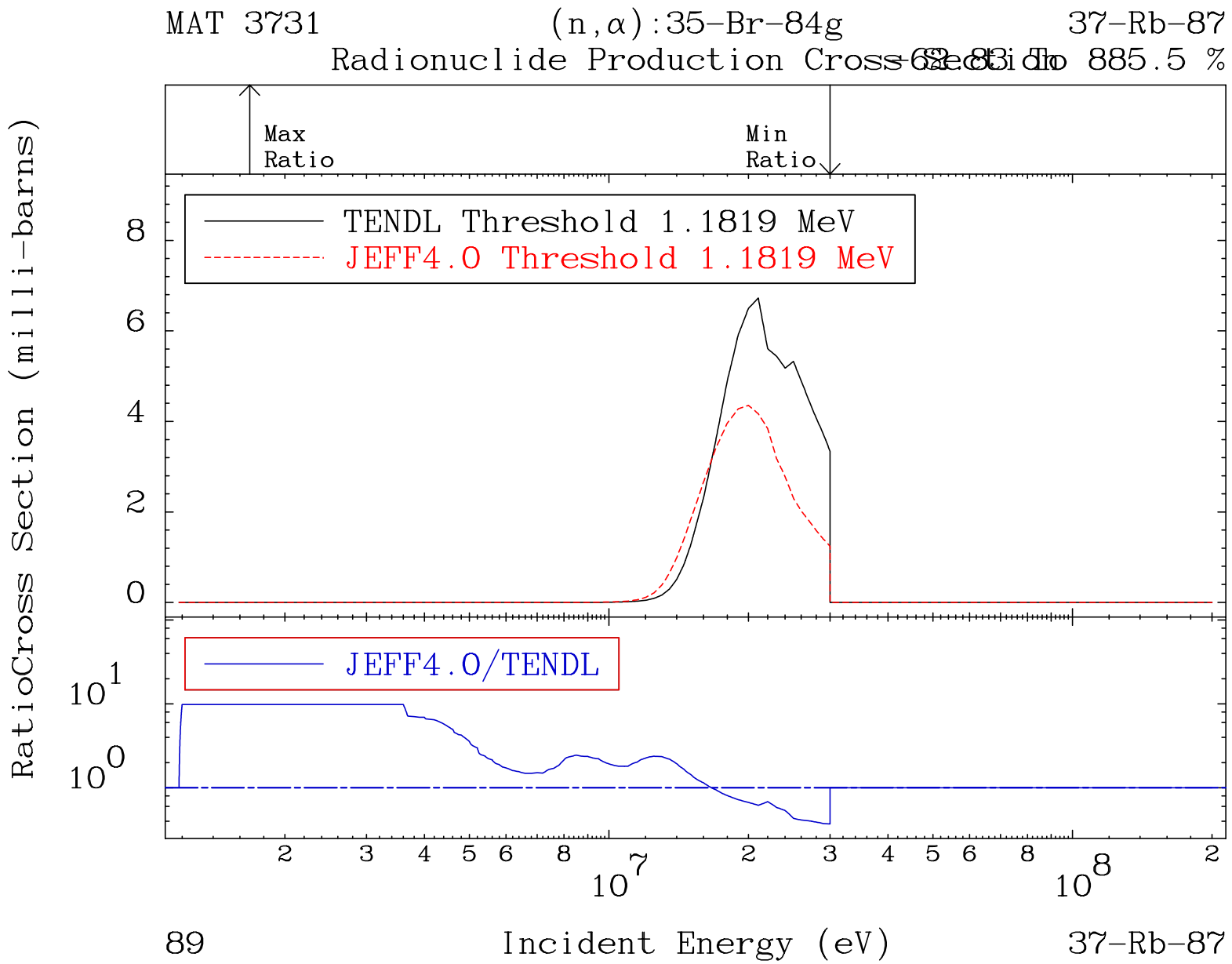

MAT 3731
(n,n') He-3:35-Br-84m1
37-Rb-87
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 25.000 MeV
JEFF4.0 Threshold 25.000 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
400
300
200
100
0
1.0
0.8
40
60
80
100
120
140
160
180
200
84
Incident Energy (MeV)
37-Rb-87

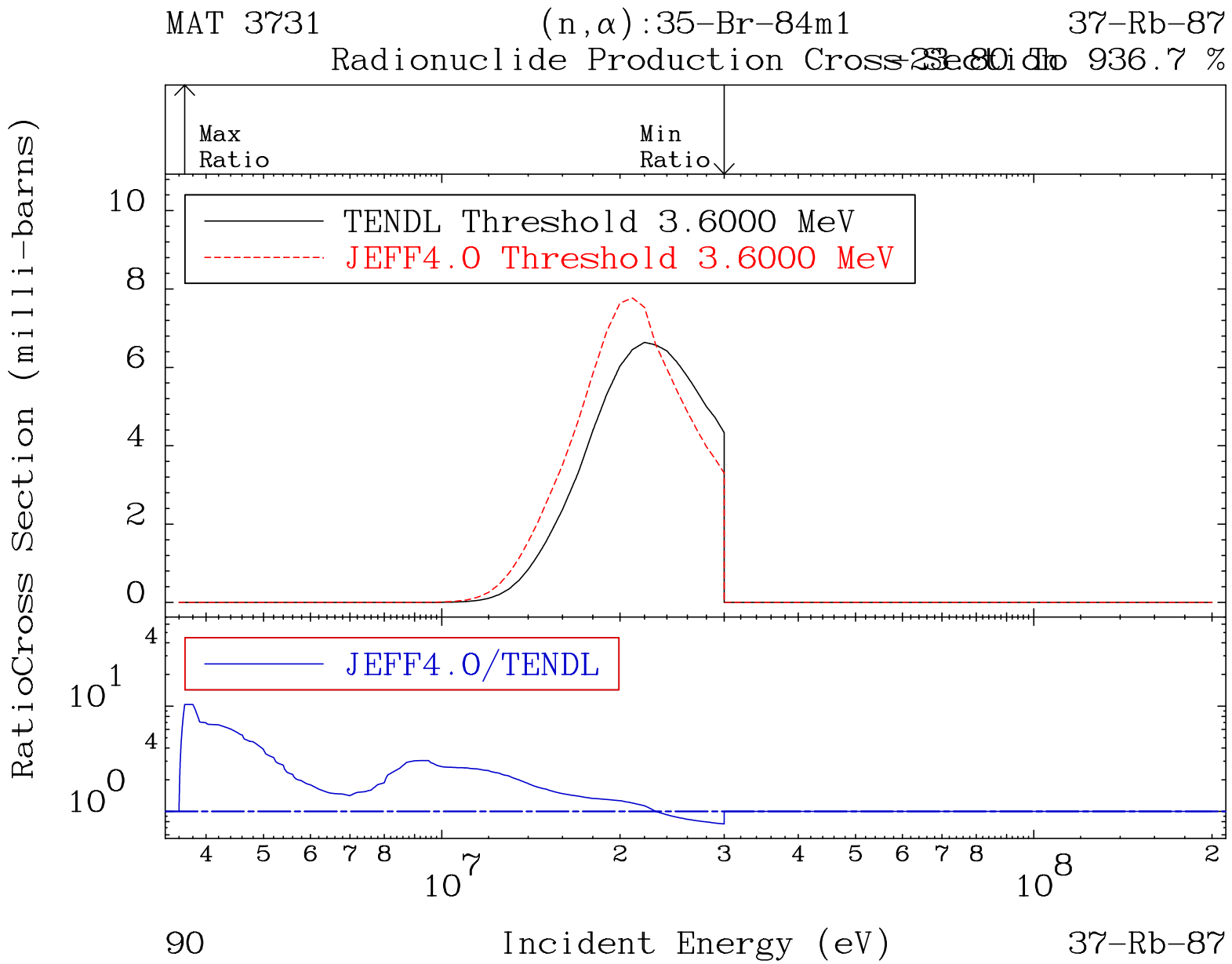

MAT 3731
(n,2n) p:36-Kr-85g
37-Rb-87
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 18.692 MeV
JEFF4.0 Threshold 18.692 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
85
37-Rb-87

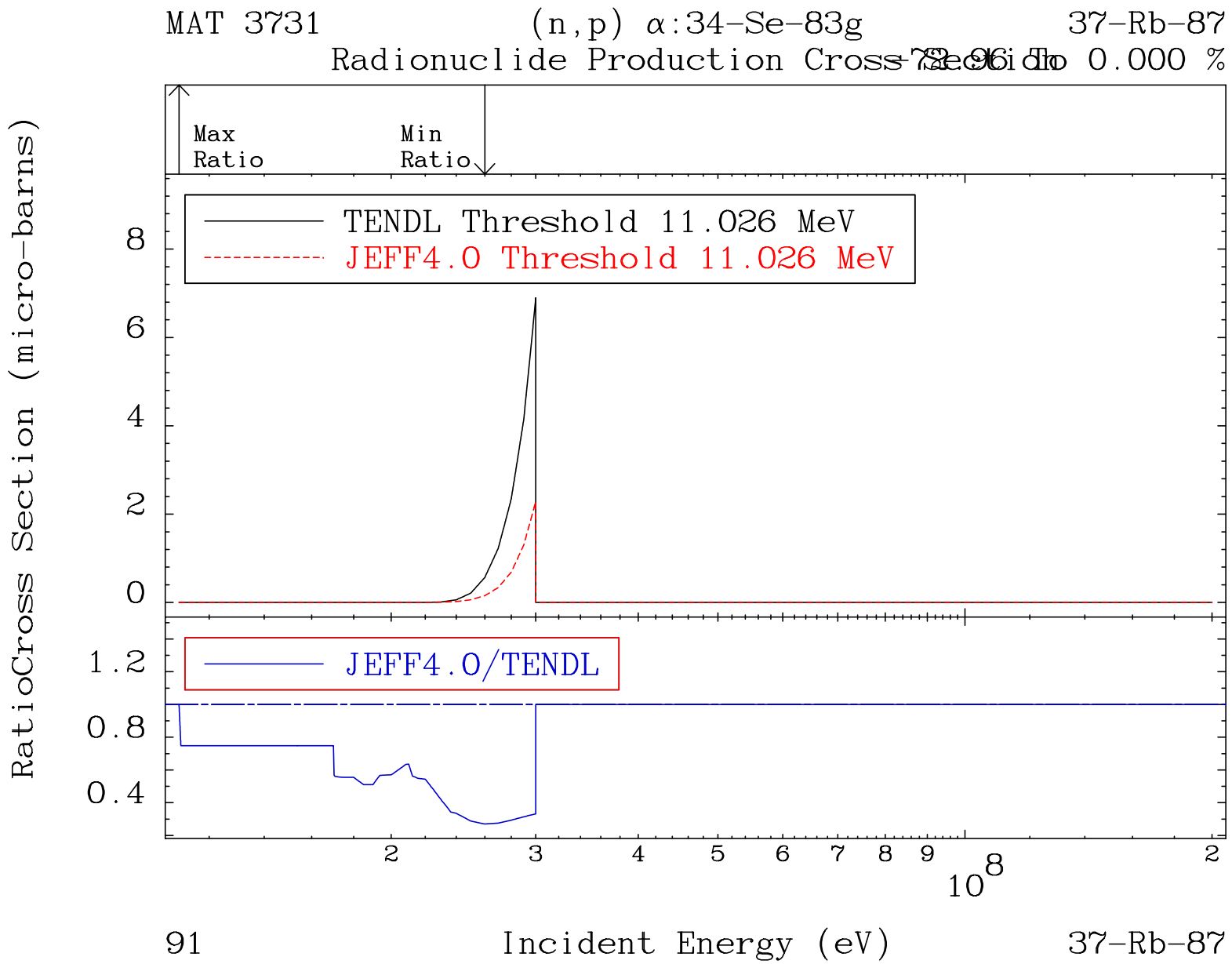

MAT 3731
(n,2n) p:36-Kr-85m1
37-Rb-87
Radionuclide Production Cross Section To 231.1 %
Min
Ratio
TENDL Threshold 19.001 MeV
JEFF4.0 Threshold 19.001 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
86
37-Rb-87

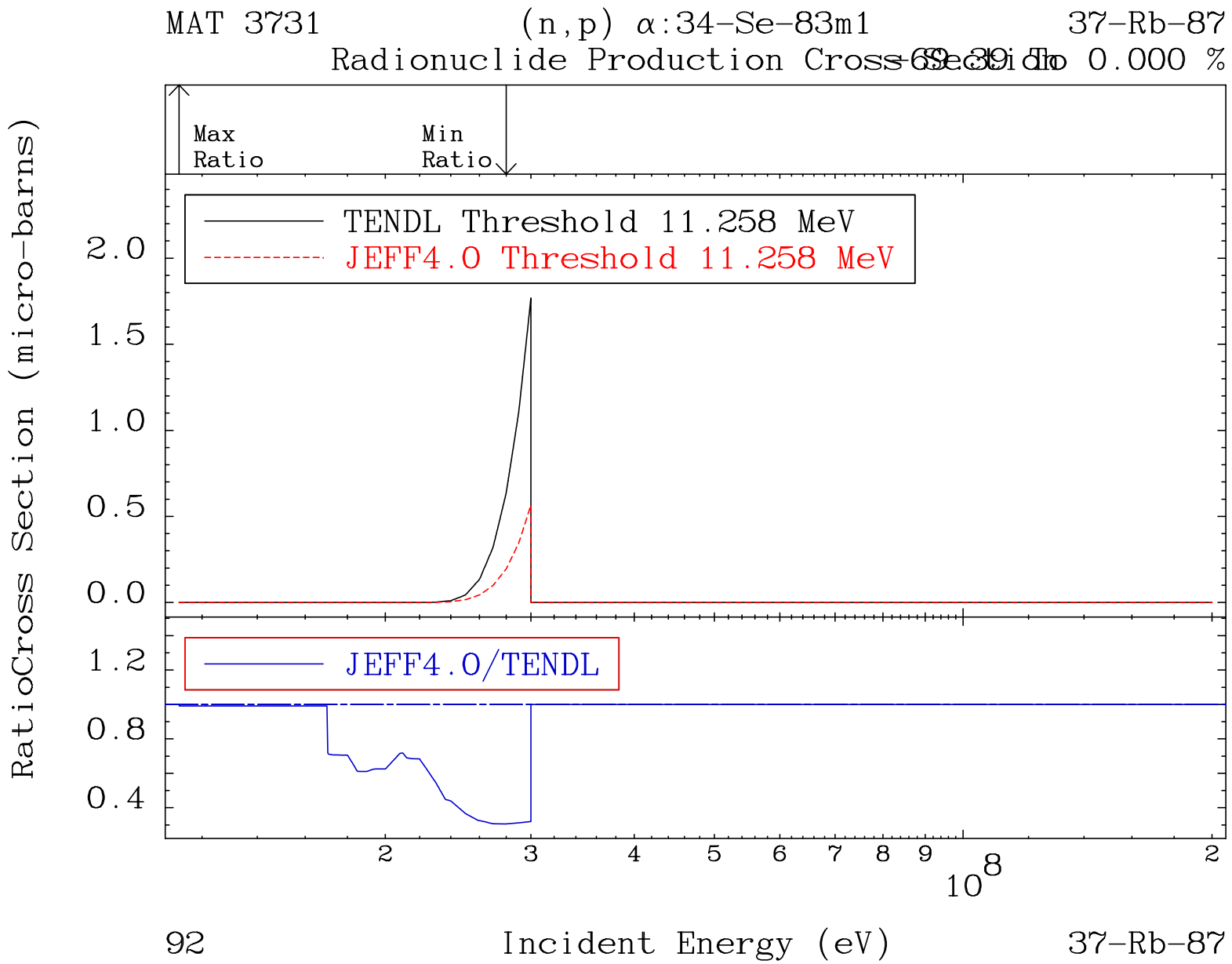

MAT 3731
(n,t):36-Kr-85g
37-Rb-87
Radionuclide Production Cross Section To 9999. %
Min
Ratio
TENDL Threshold 10.112 MeV
JEFF4.0 Threshold 10.112 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
87
37-Rb-87

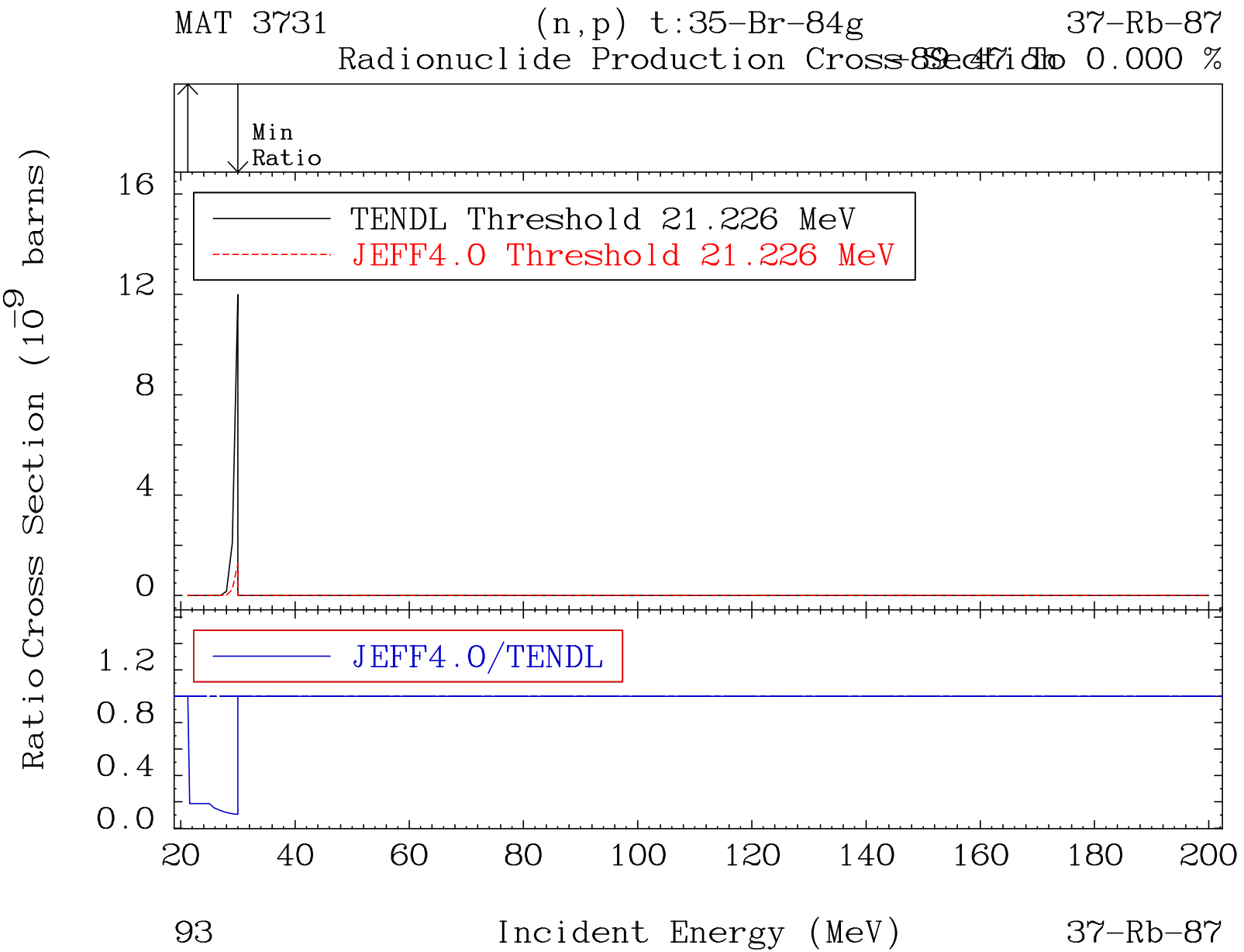

MAT 3731
(n,t):36-Kr-85m1
37-Rb-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 11.000 MeV
JEFF4.0 Threshold 10.420 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
88
37-Rb-87

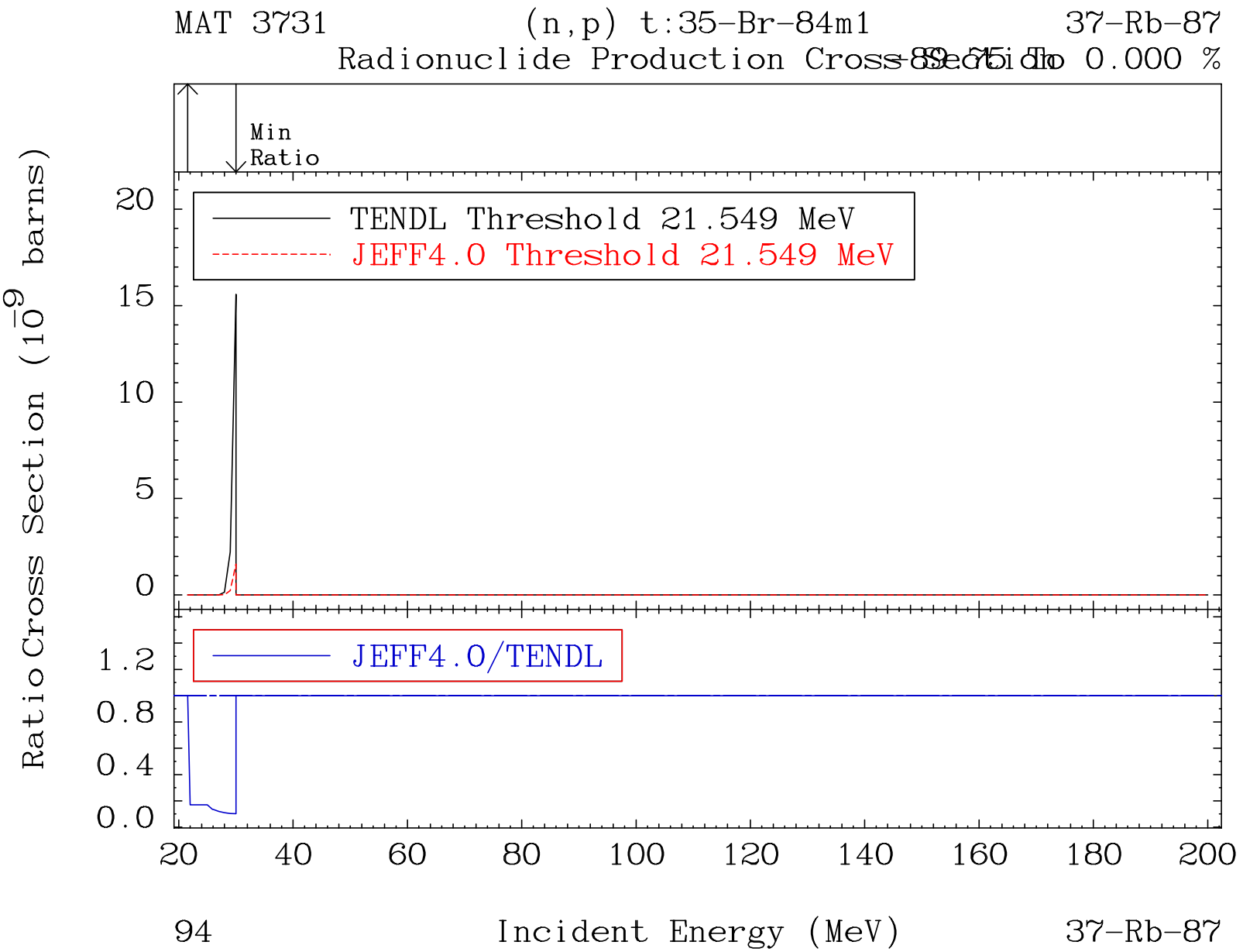

MAT 3731
(n,α):35-Br-84g
37-Rb-87
Radionuclide Production Cross-Section To 885.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.1819 MeV
JEFF4.0 Threshold 1.1819 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
89
37-Rb-87


MAT 3731
(n,α):35-Br-84m1
37-Rb-87
Radionuclide Production Cross Section To 936.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.6000 MeV
JEFF4.0 Threshold 3.6000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
90
37-Rb-87


MAT 3731
(n,p) α:34-Se-83g
37-Rb-87
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 11.026 MeV
JEFF4.0 Threshold 11.026 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
91
37-Rb-87


MAT 3731
(n,p) α:34-Se-83m1
37-Rb-87
Radionuclide Production Cross Section To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 11.258 MeV
JEFF4.0 Threshold 11.258 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
2
10^8
92
Incident Energy (eV)
37-Rb-87


MAT 3731
(n,p) t:35-Br-84g
37-Rb-87
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 21.226 MeV
JEFF4.0 Threshold 21.226 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^-9 barns)
16
12
8
4
0
1.2
0.8
0.4
0.0
20
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
37-Rb-87


MAT 3731
(n,p) t:35-Br-84m1
37-Rb-87
Radionuclide Production Cross Section To 0.000 %
Min
Ratio
TENDL Threshold 21.549 MeV
JEFF4.0 Threshold 21.549 MeV
JEFF4.0/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (MeV)
94
37-Rb-87