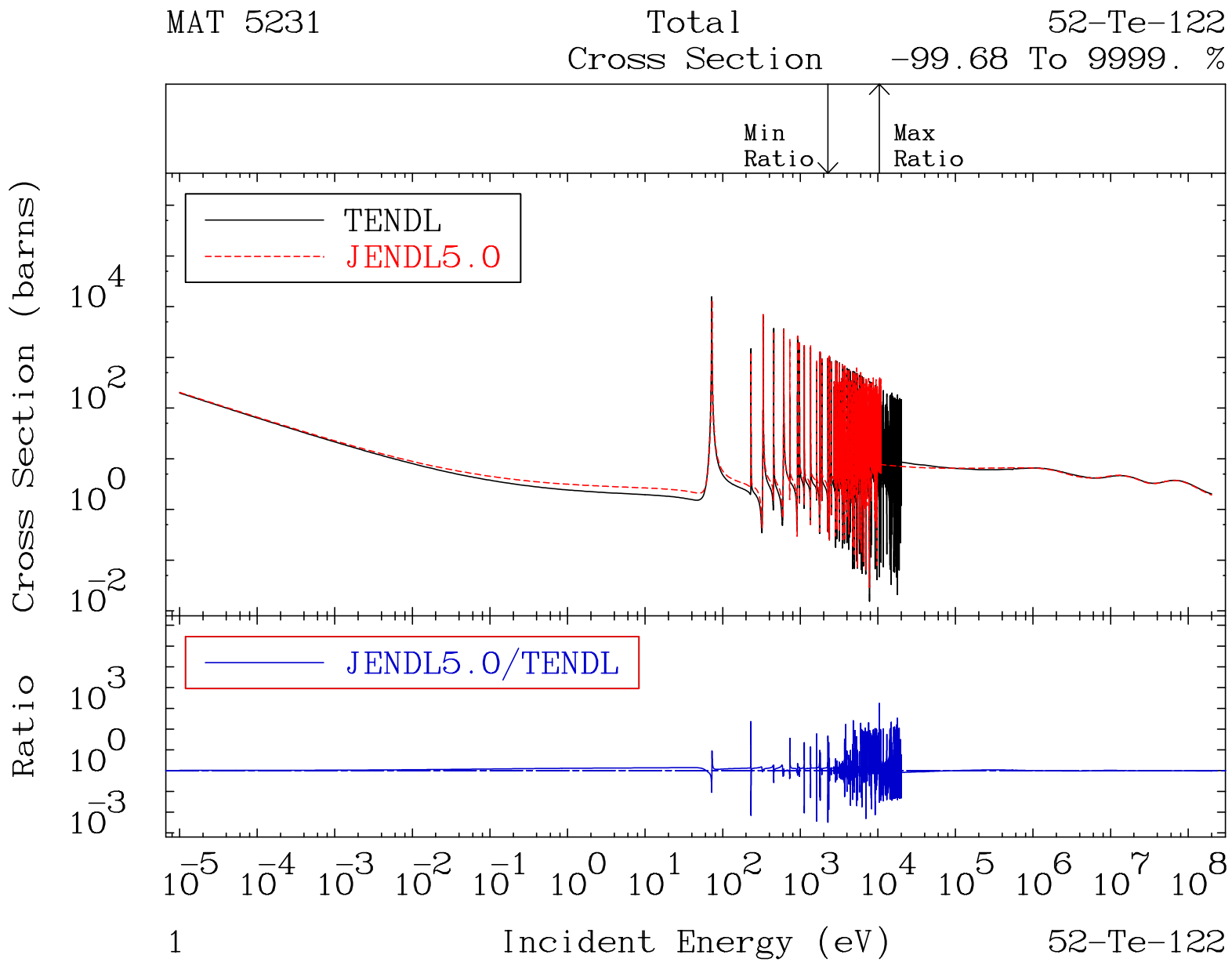
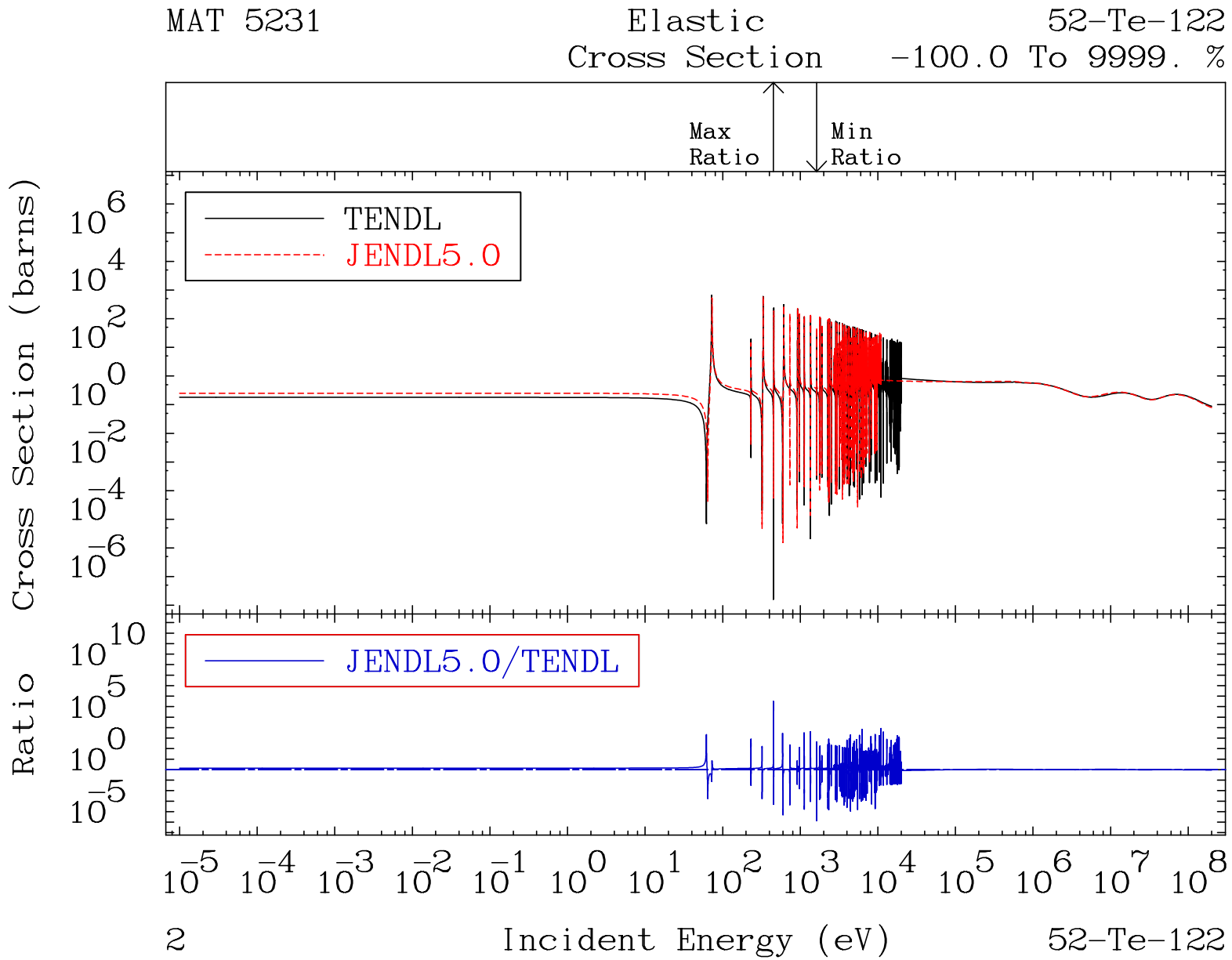
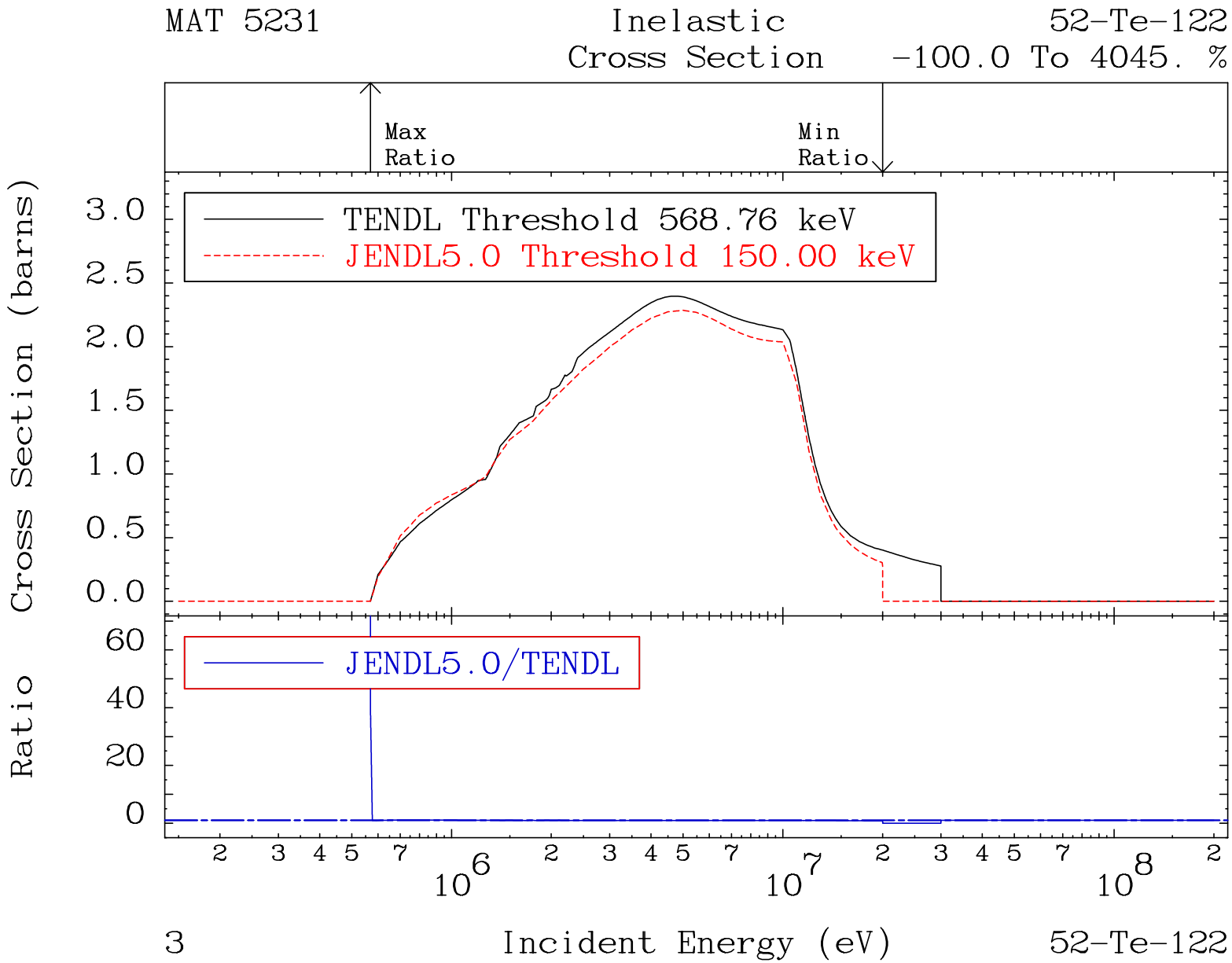
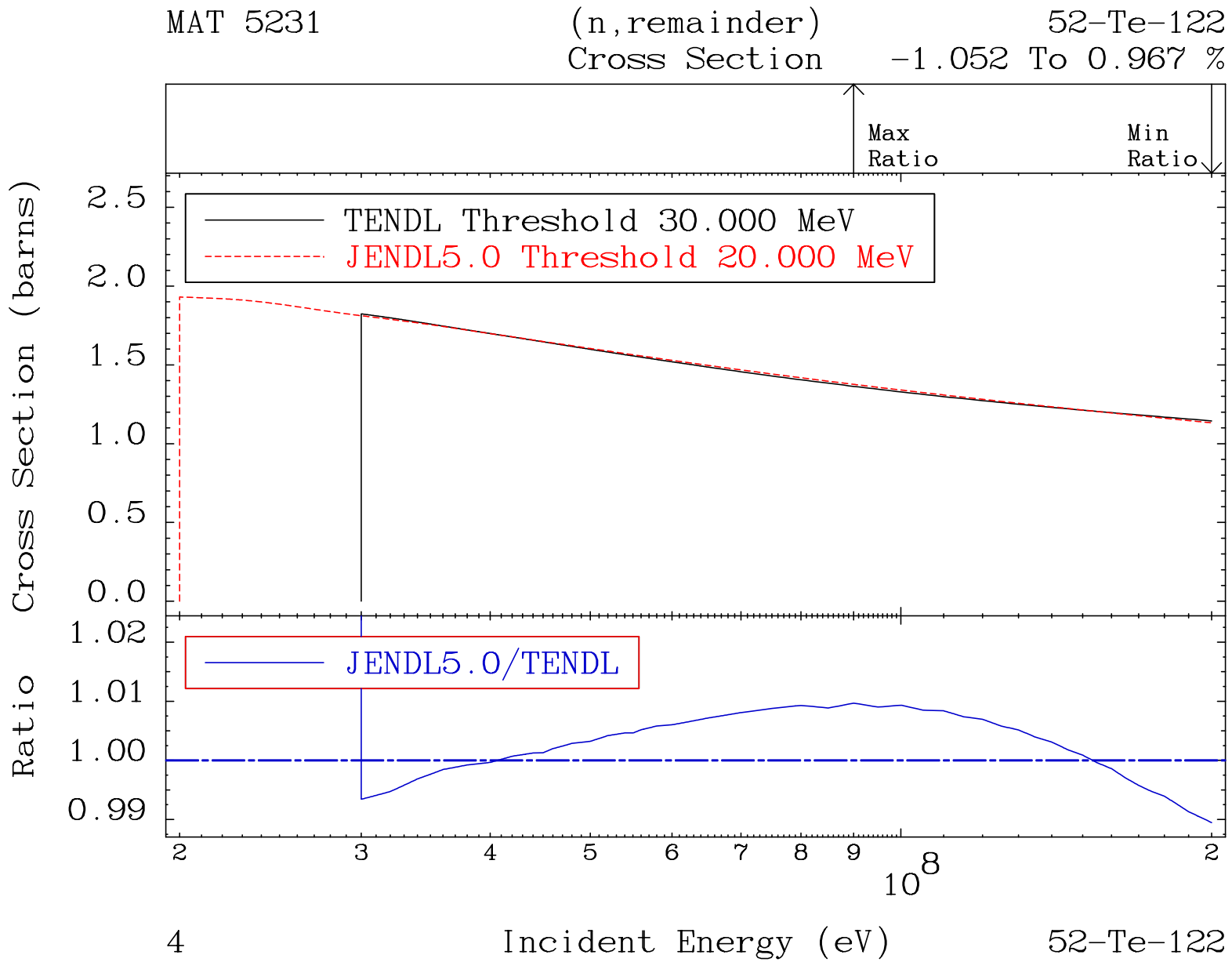
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

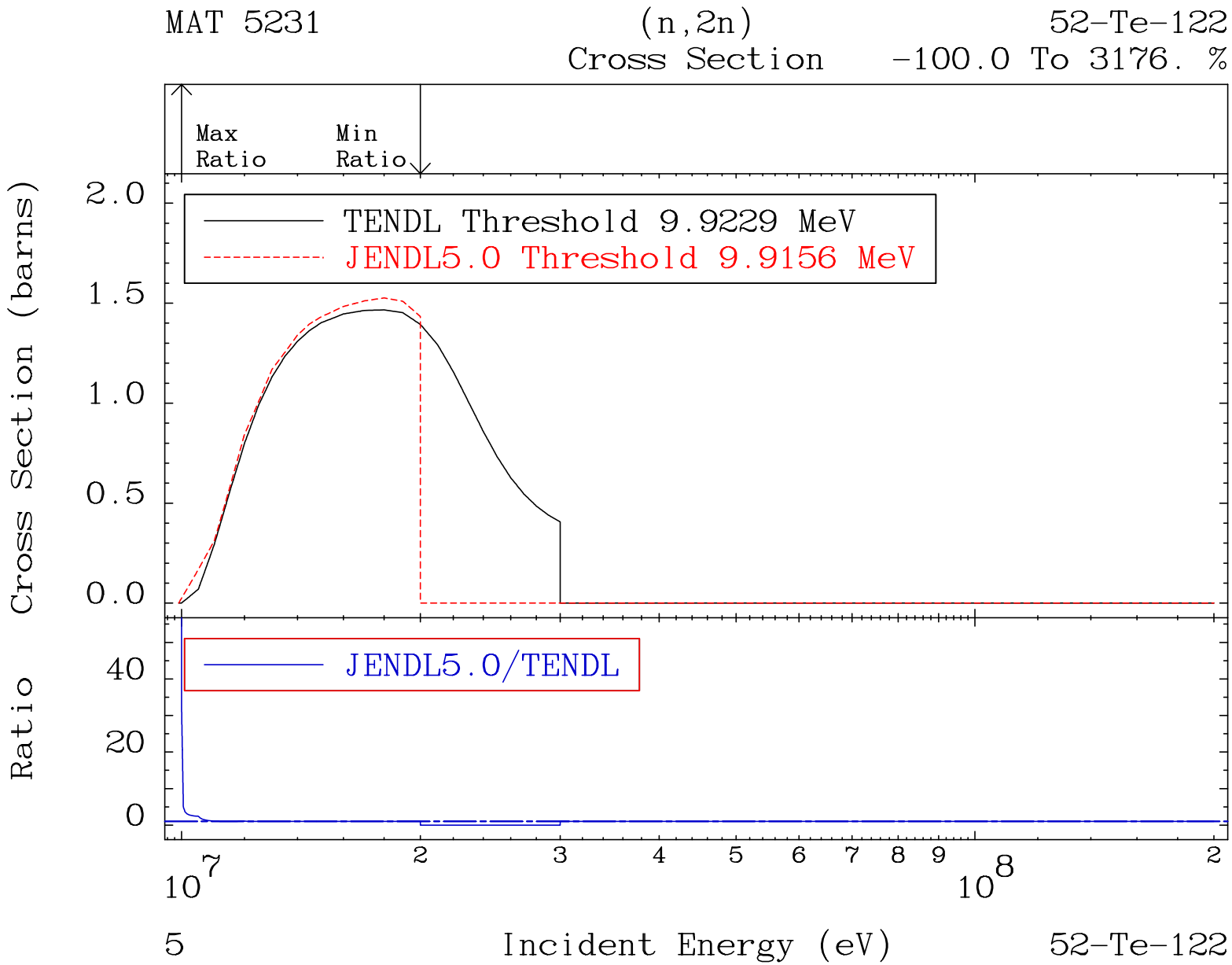
Press Mouse Button to Start

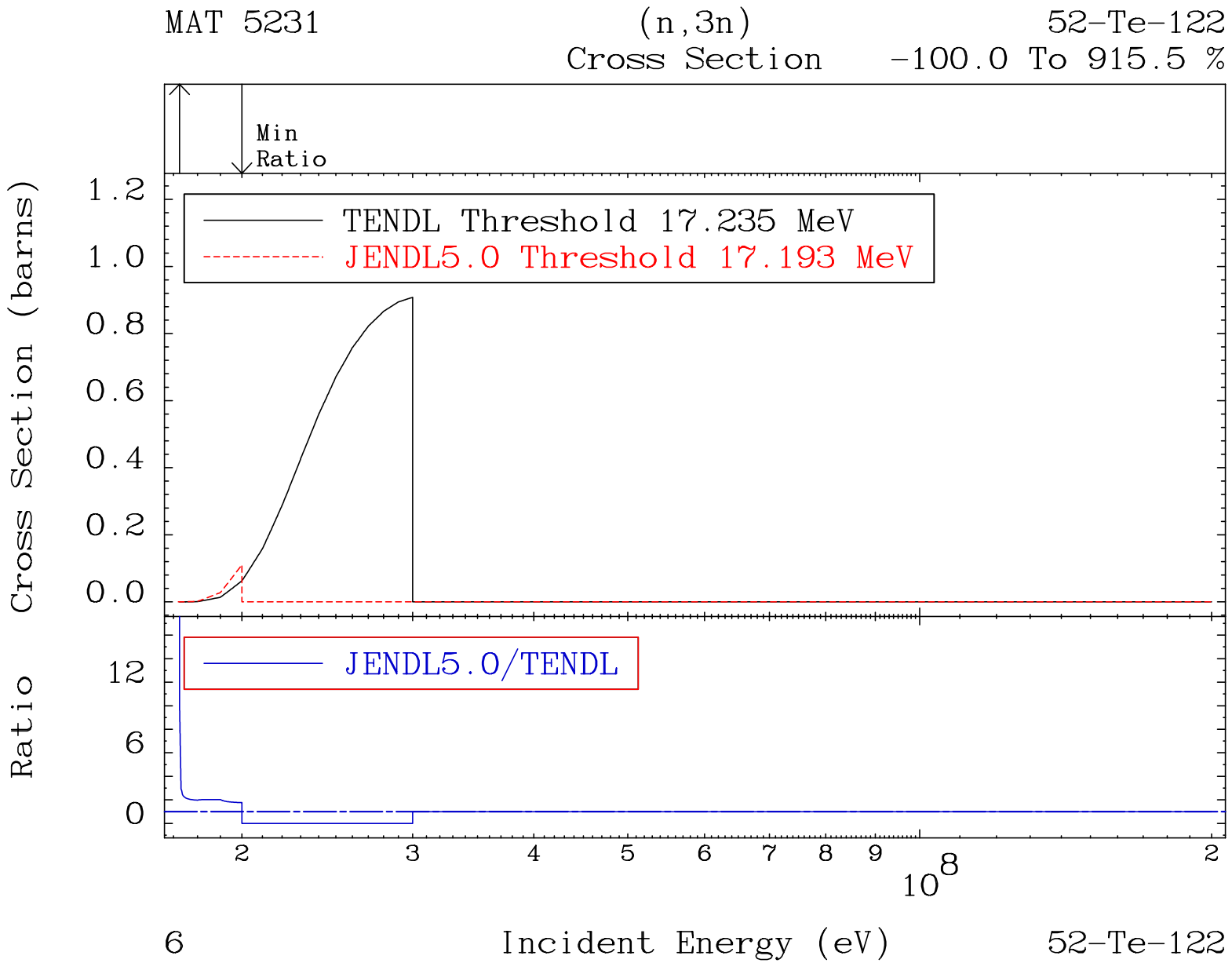

MAT 5231
Total
Cross Section
52-Te-122
-99.68 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
52-Te-122

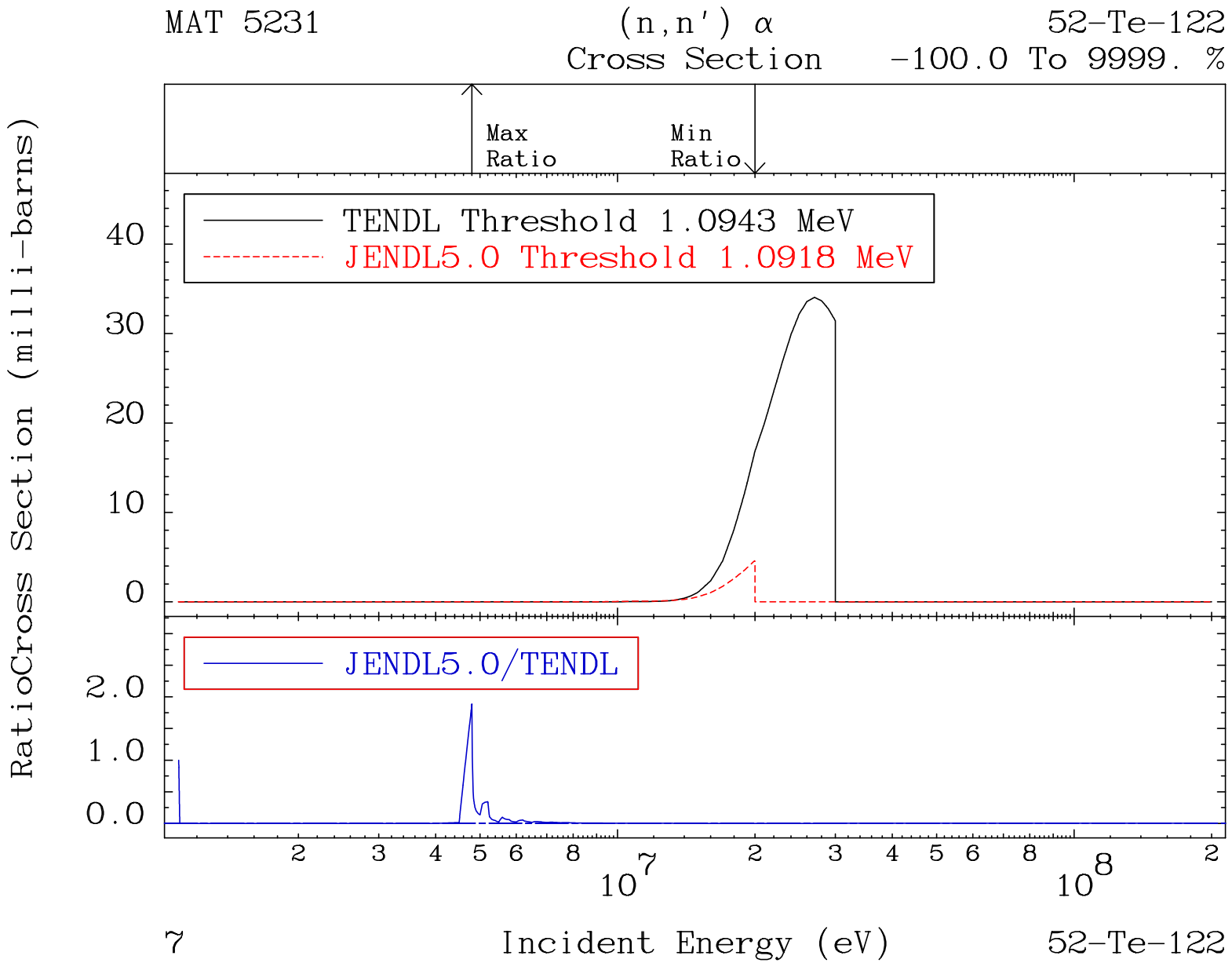

MAT 5231
Elastic
Cross Section
52-Te-122
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
52-Te-122

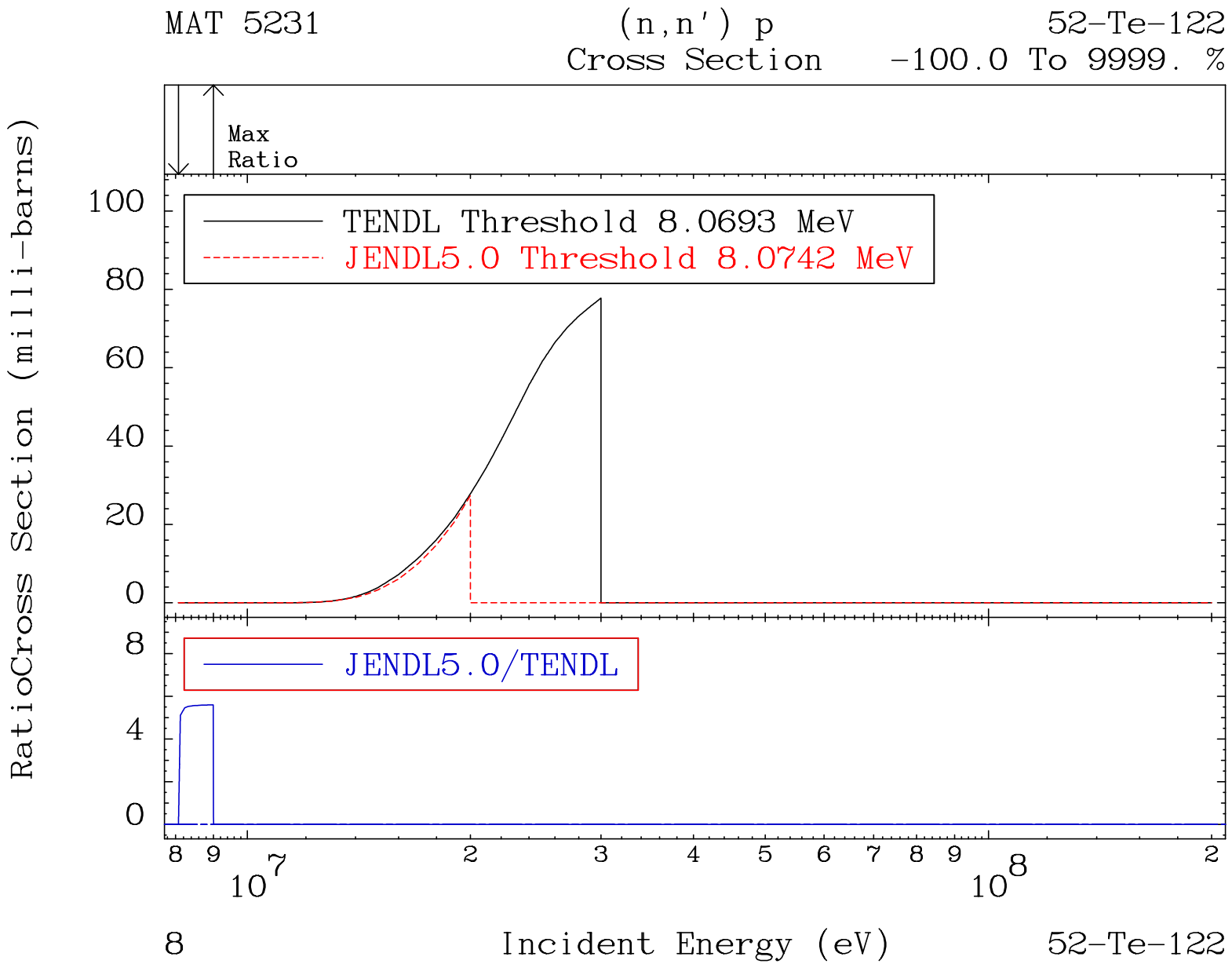

MAT 5231
Inelastic
Cross Section
52-Te-122
-100.0 To 4045. %
Max
Ratio
Min
Ratio
TENDL Threshold 568.76 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
52-Te-122

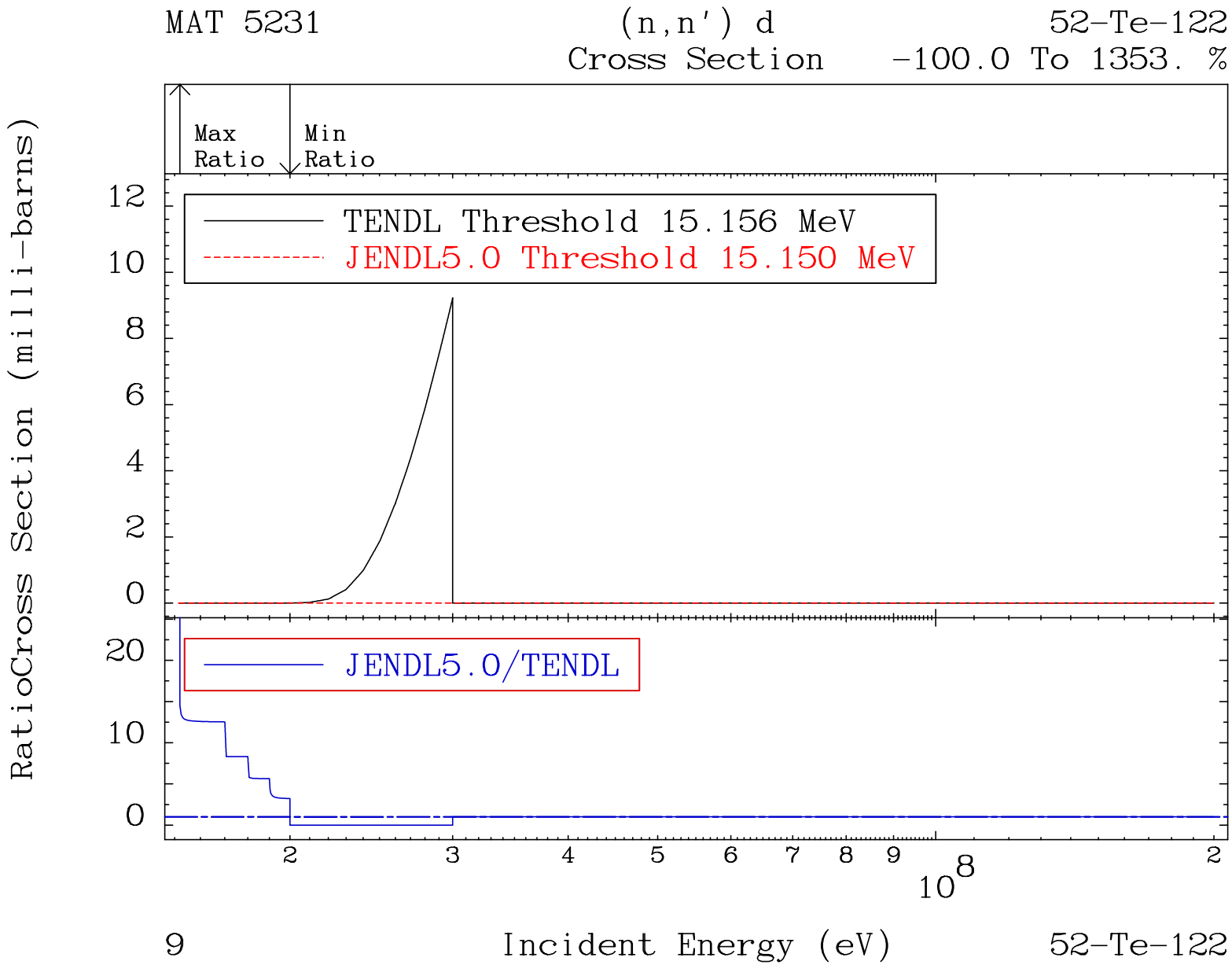

MAT 5231
(n,remainder)
Cross Section
52-Te-122
-1.052 To 0.967 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
52-Te-122

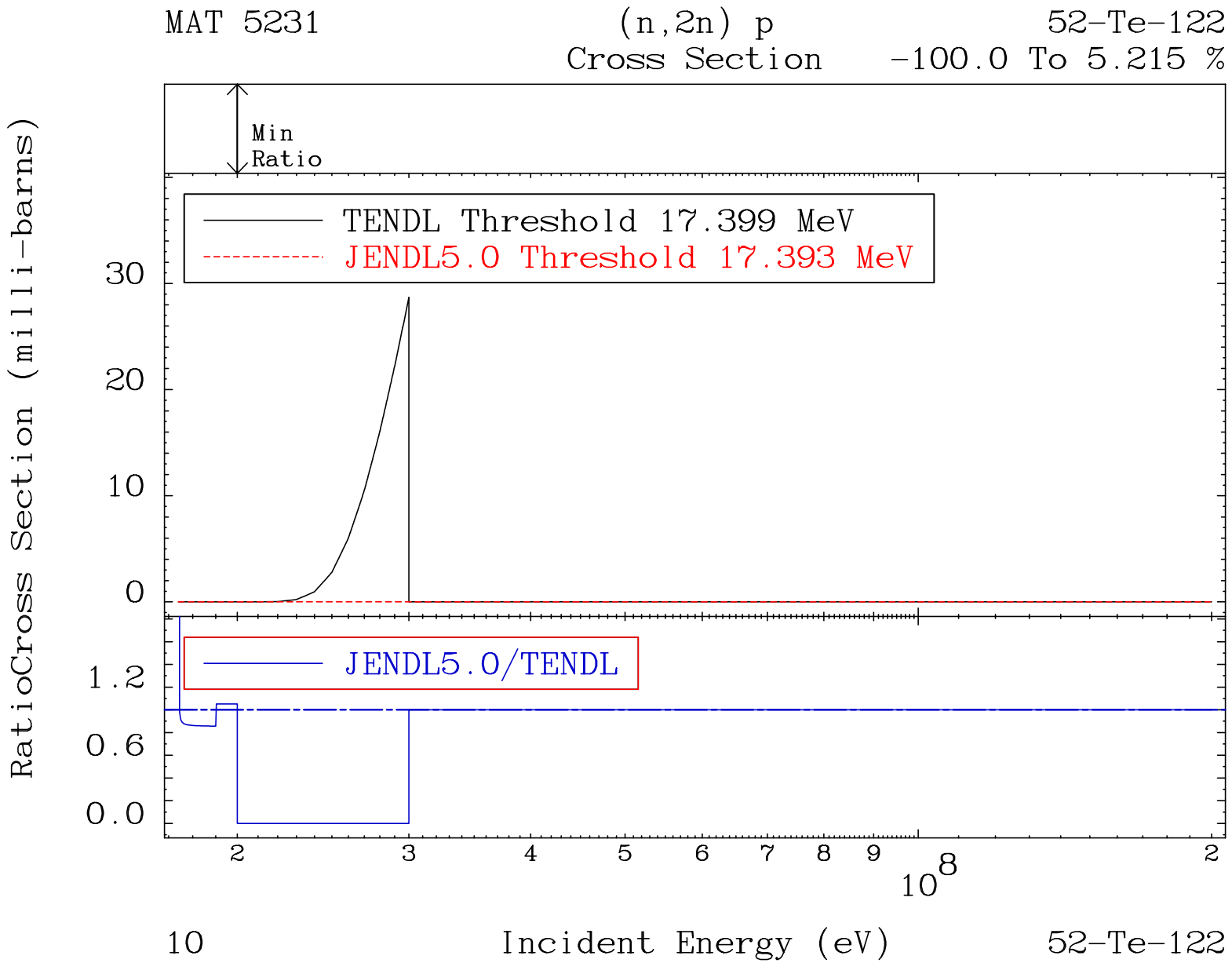

MAT 5231
(n,2n)
Cross Section
52-Te-122
-100.0 To 3176. %
Max Ratio
Min Ratio
TENDL Threshold 9.9229 MeV
JENDL5.0 Threshold 9.9156 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
5
52-Te-122

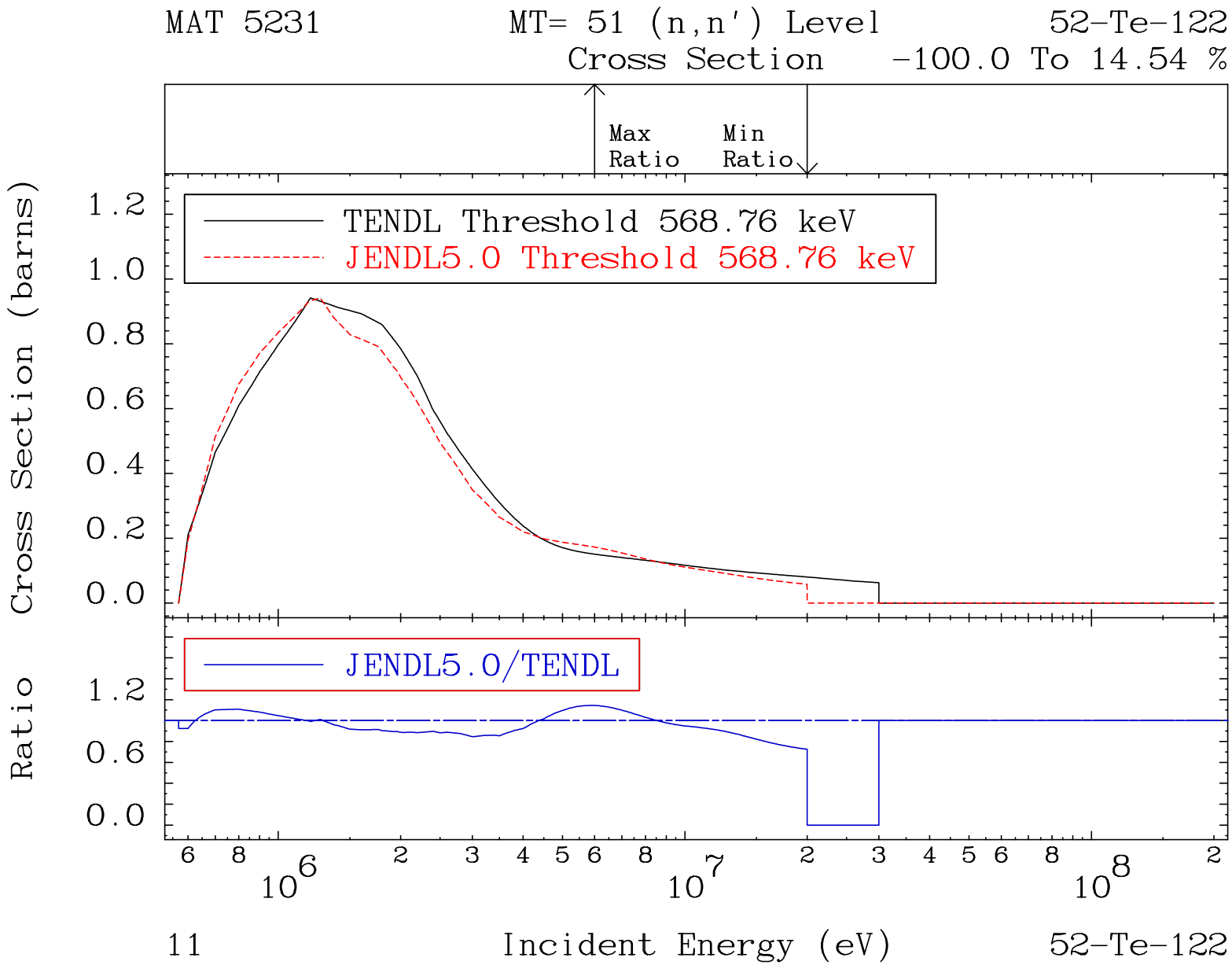

MAT 5231
(n,3n)
Cross Section
52-Te-122
-100.0 To 915.5 %
Min
Ratio
TENDL Threshold 17.235 MeV
JENDL5.0 Threshold 17.193 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
52-Te-122

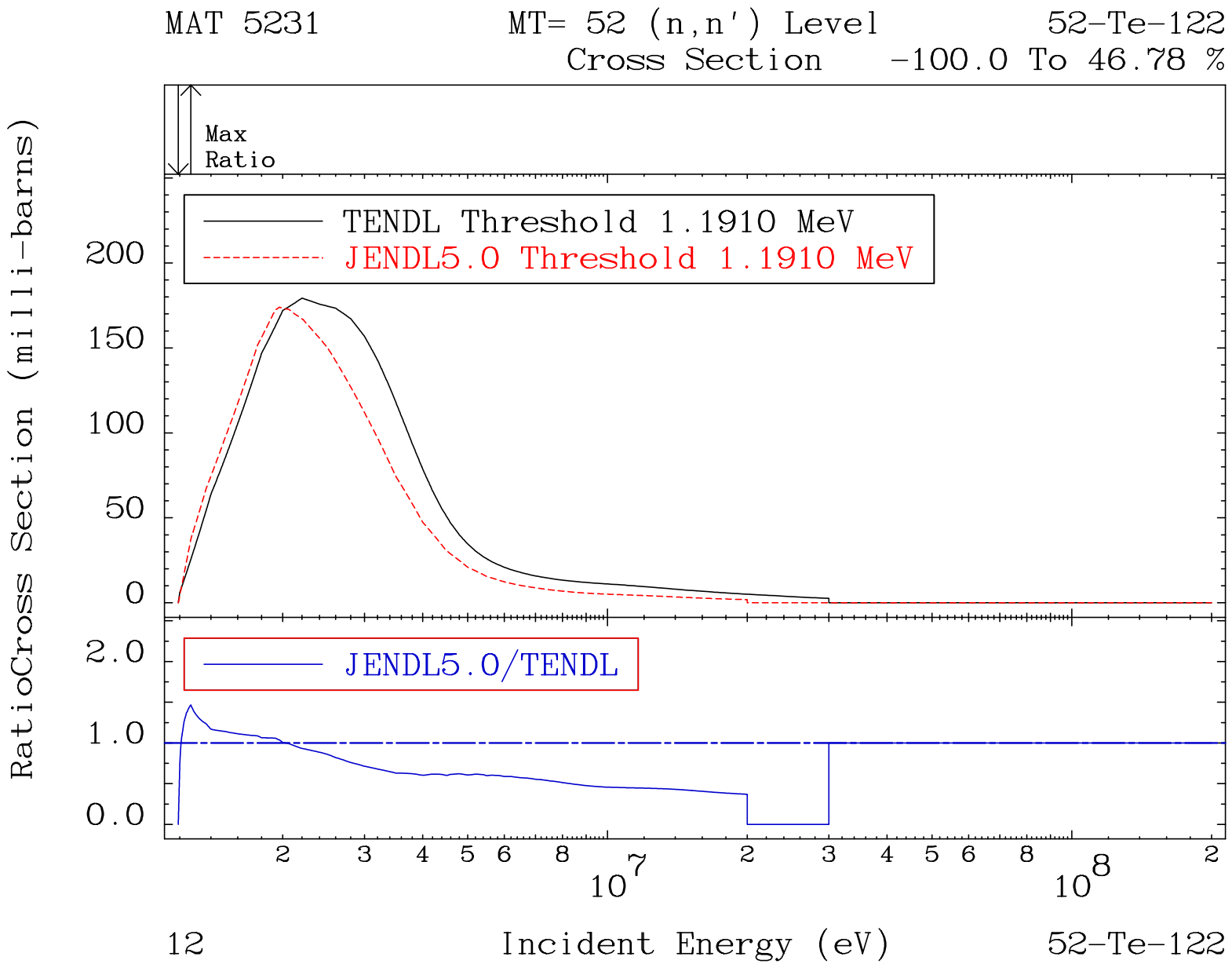

MAT 5231
(n,n') α
Cross Section
52-Te-122
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0943 MeV
JENDL5.0 Threshold 1.0918 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
52-Te-122

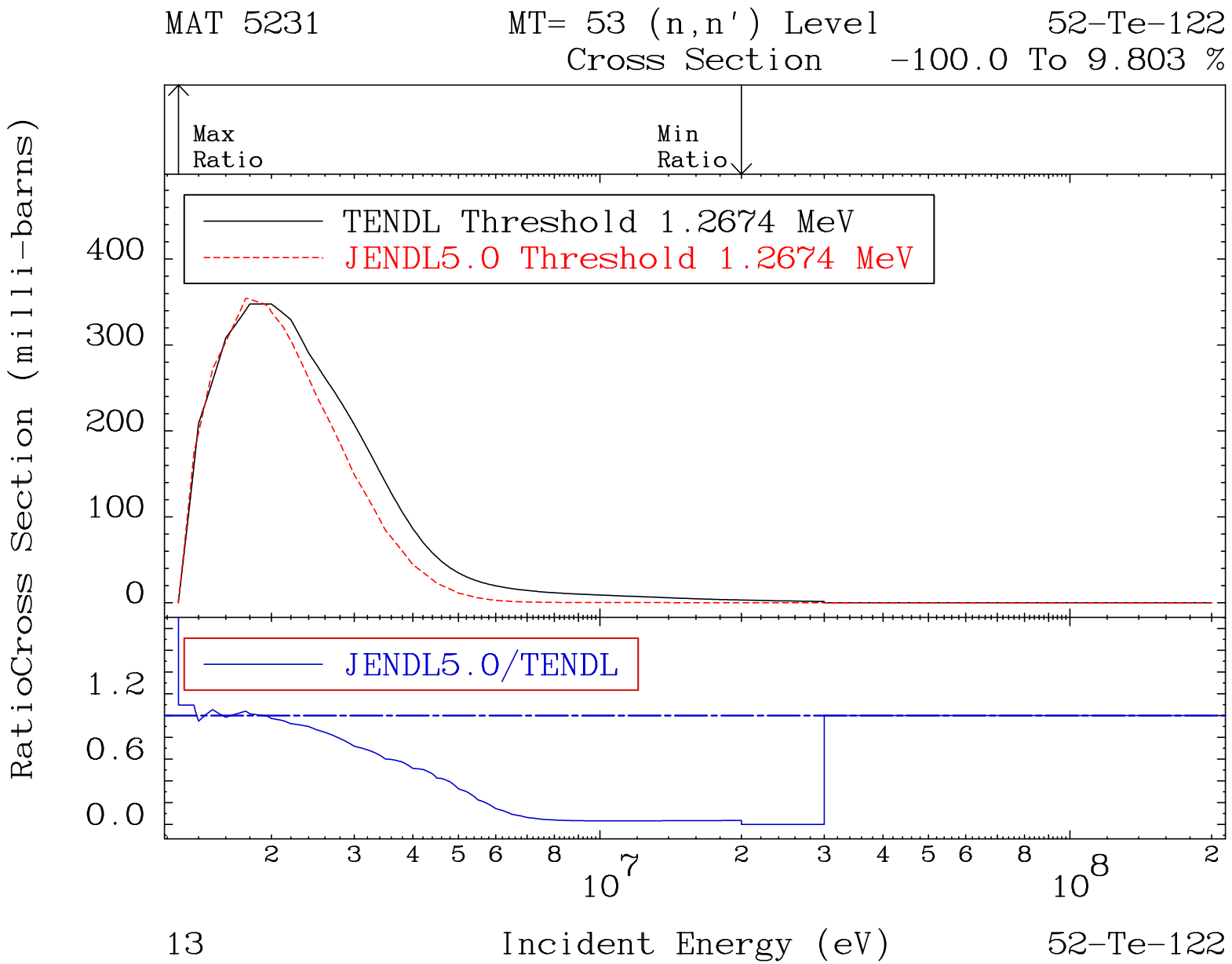

MAT 5231
(n,n') p
Cross Section
52-Te-122
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.0693 MeV
JENDL5.0 Threshold 8.0742 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
52-Te-122

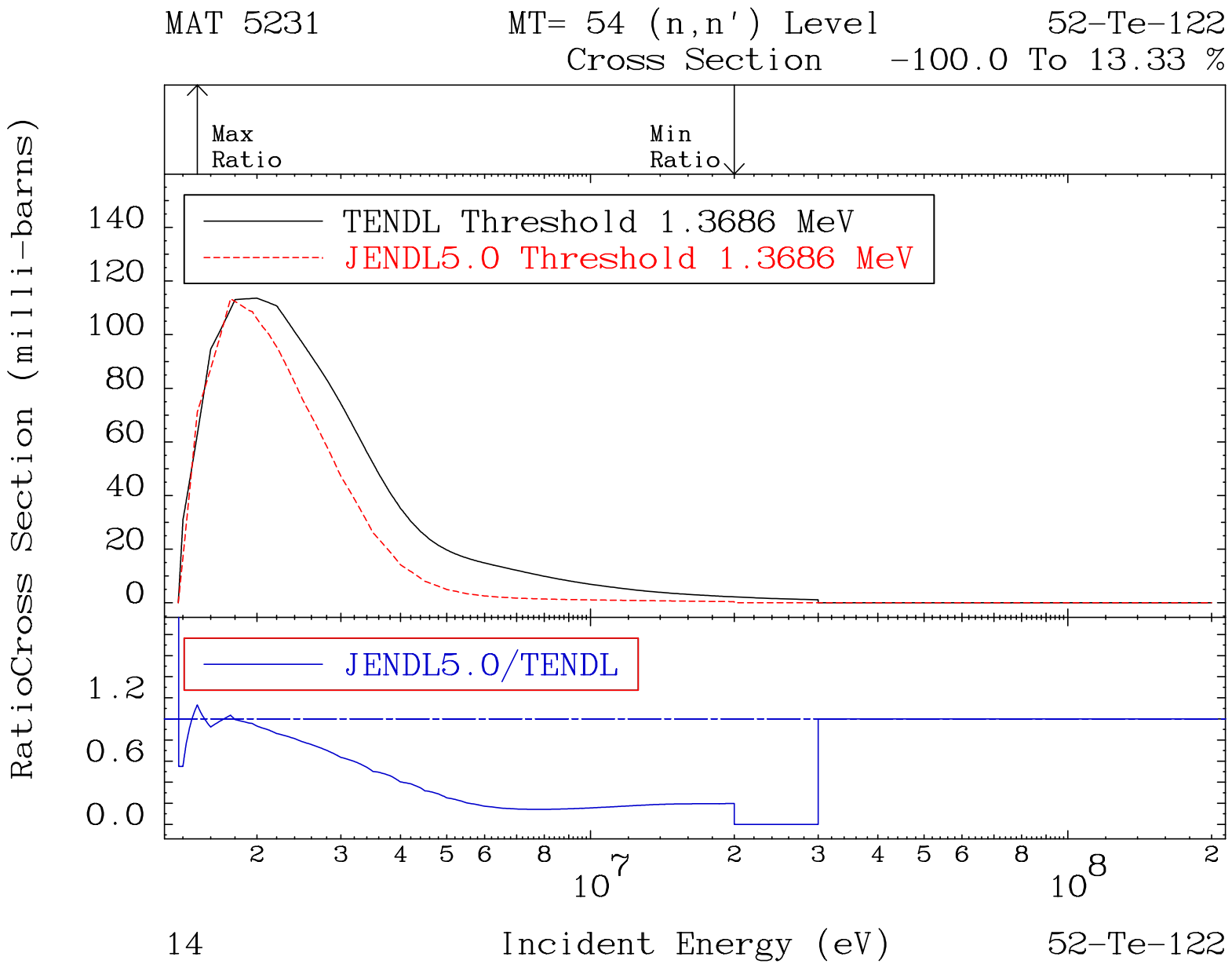

MAT 5231
(n,n') d
Cross Section
52-Te-122
-100.0 To 1353. %
Max Ratio
Min Ratio
TENDL Threshold 15.156 MeV
JENDL5.0 Threshold 15.150 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
20
10
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
52-Te-122

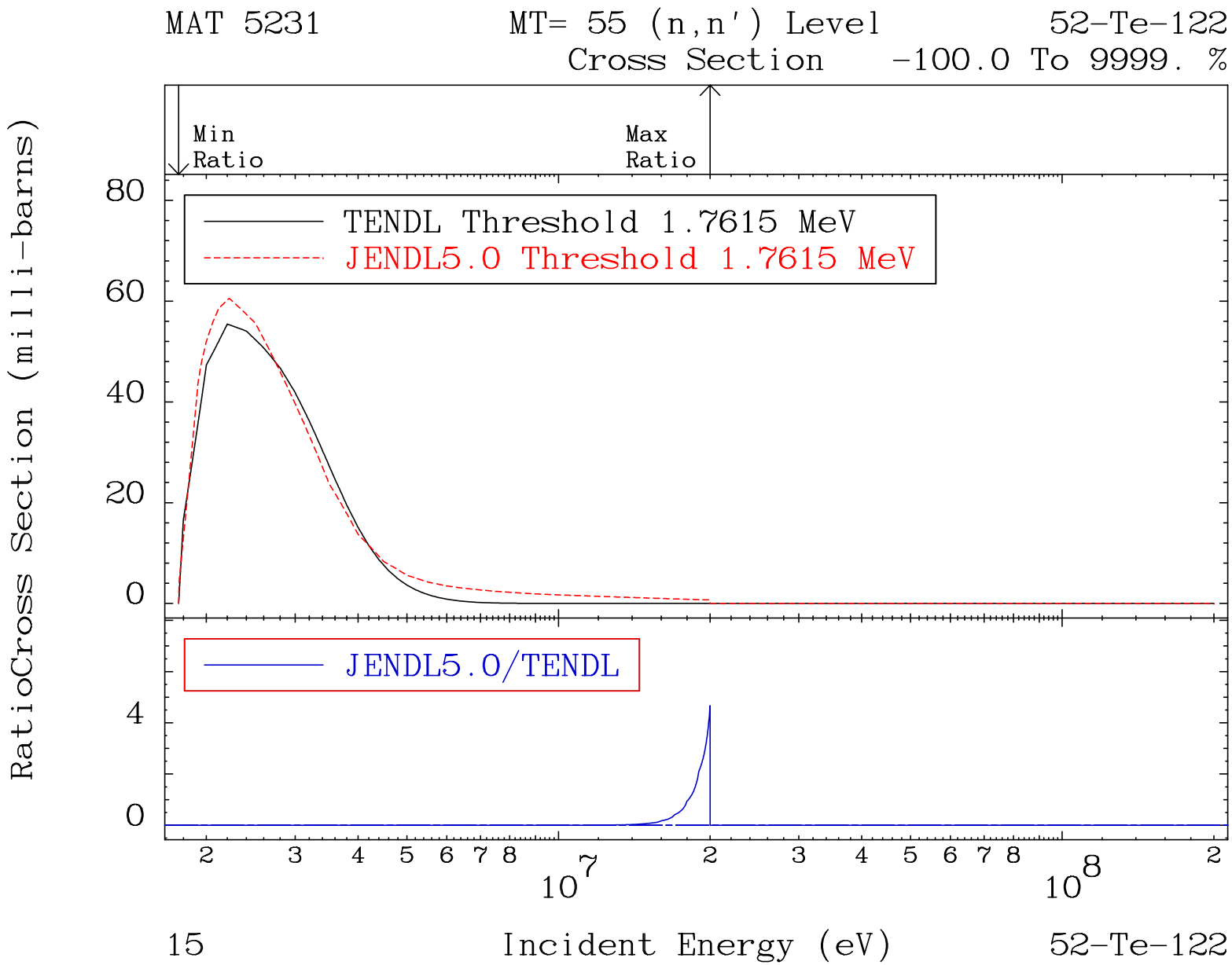

MAT 5231
(n,2n) p
Cross Section
52-Te-122
-100.0 To 5.215 %
Min
Ratio
TENDL Threshold 17.399 MeV
JENDL5.0 Threshold 17.393 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
10
Incident Energy (eV)
52-Te-122

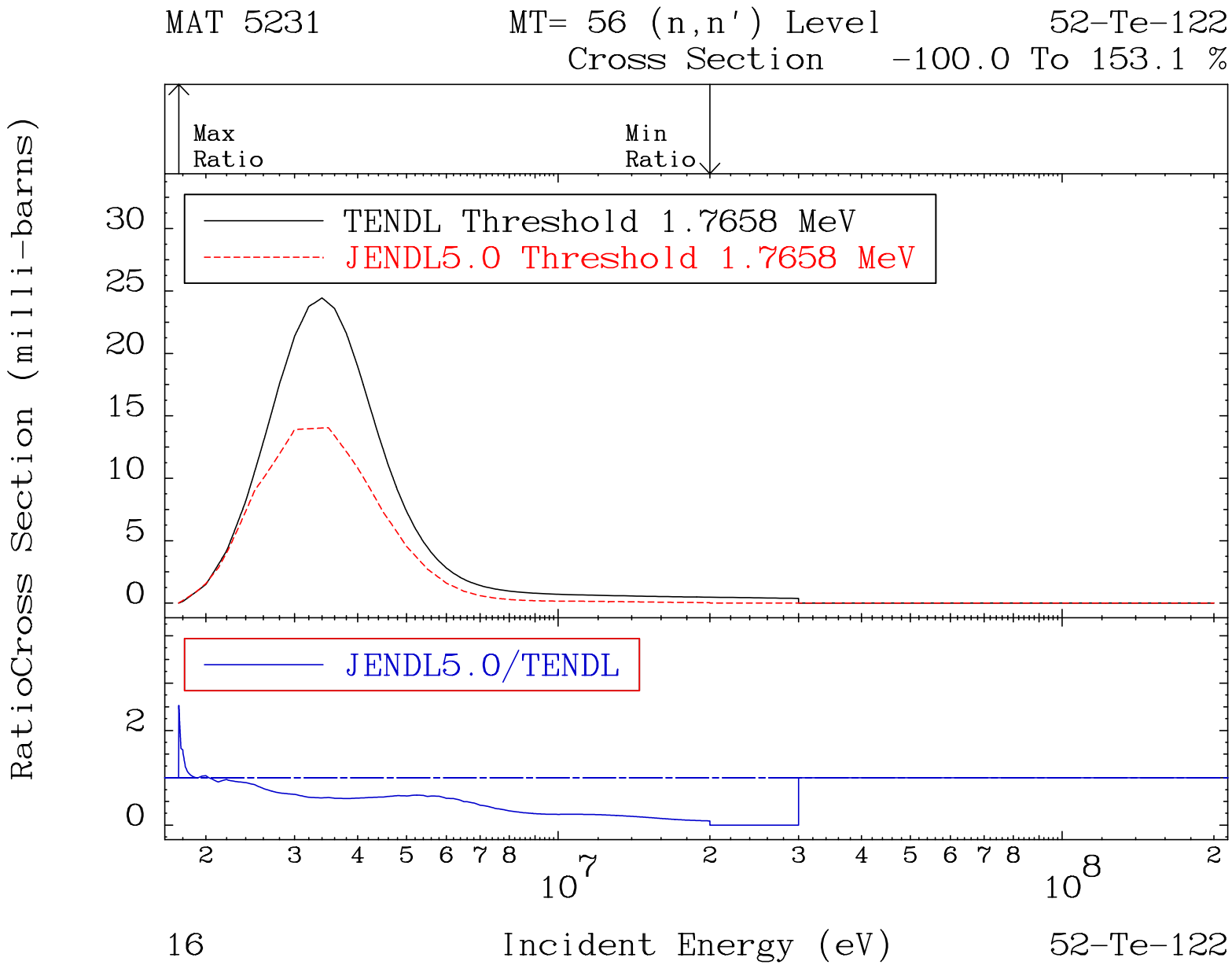

MAT 5231
MT= 51 (n,n') Level
52-Te-122
Cross Section
-100.0 To 14.54 %
Max Ratio
Min Ratio
TENDL Threshold 568.76 keV
JENDL5.0 Threshold 568.76 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
52-Te-122

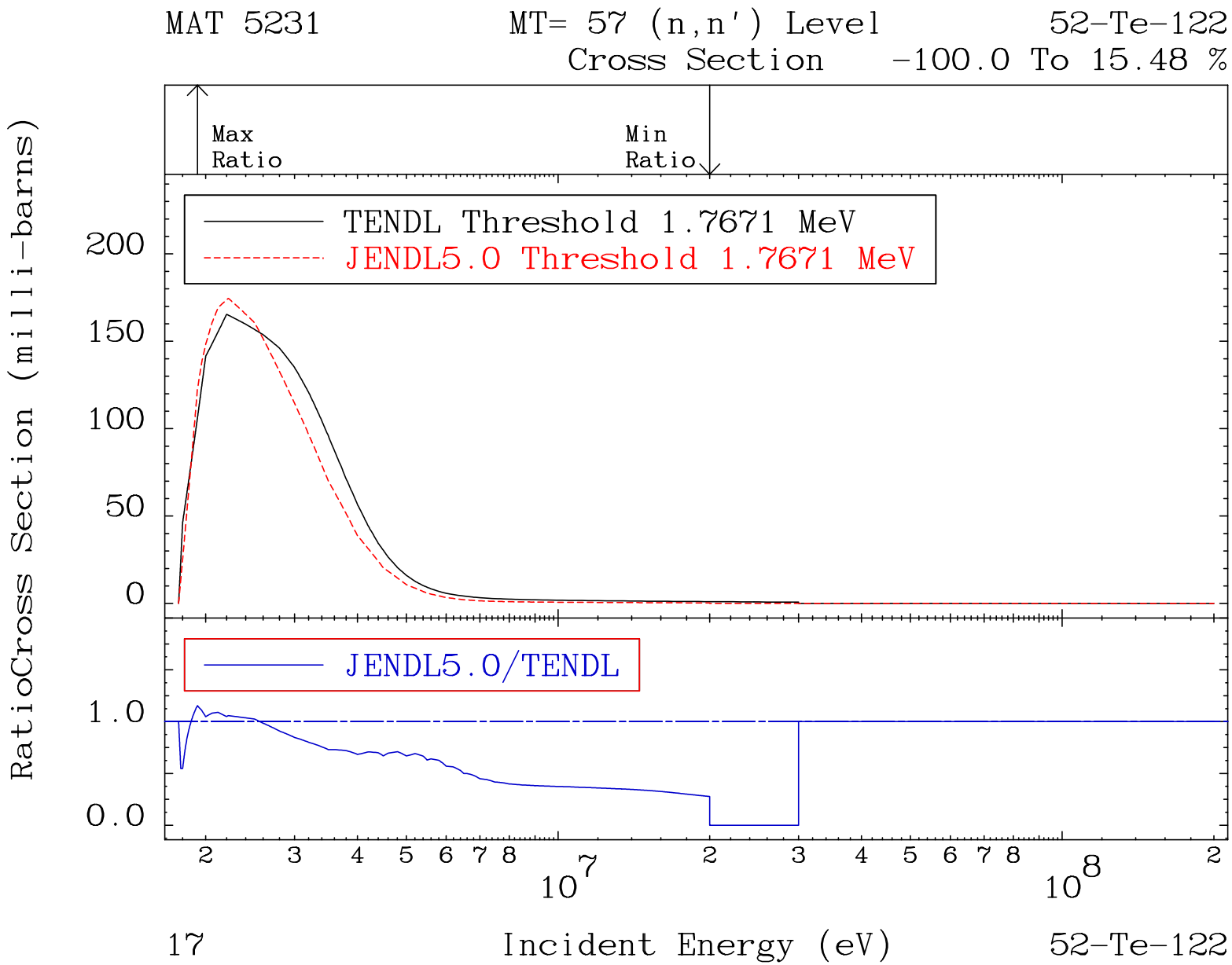

MAT 5231
MT= 52 (n,n') Level
52-Te-122
Cross Section
-100.0 To 46.78 %
Max
Ratio
TENDL Threshold 1.1910 MeV
JENDL5.0 Threshold 1.1910 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
12
Incident Energy (eV)
52-Te-122

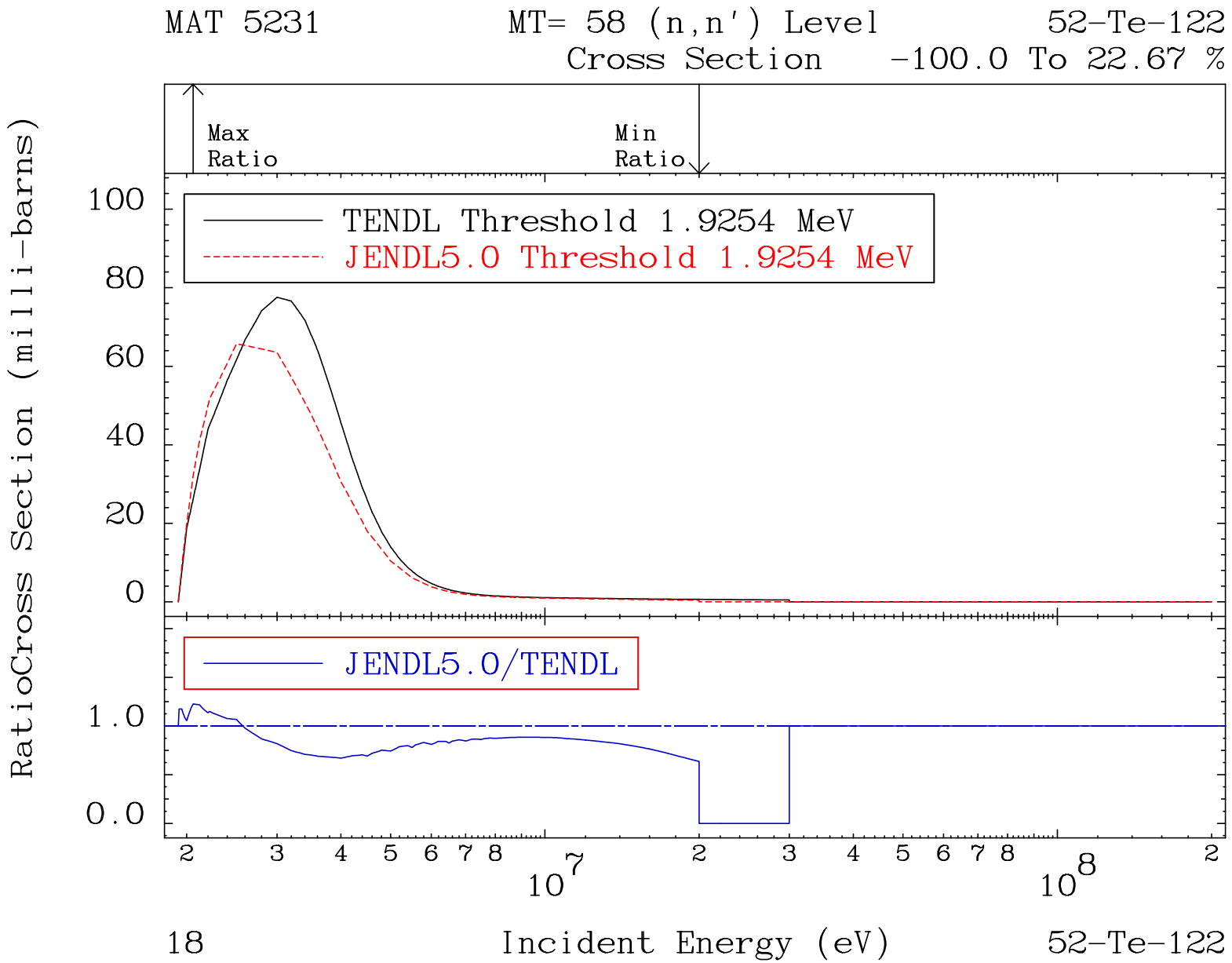

MAT 5231
MT= 53 (n,n') Level
52-Te-122
Cross Section
-100.0 To 9.803 %
Max Ratio
Min Ratio
TENDL Threshold 1.2674 MeV
JENDL5.0 Threshold 1.2674 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
52-Te-122

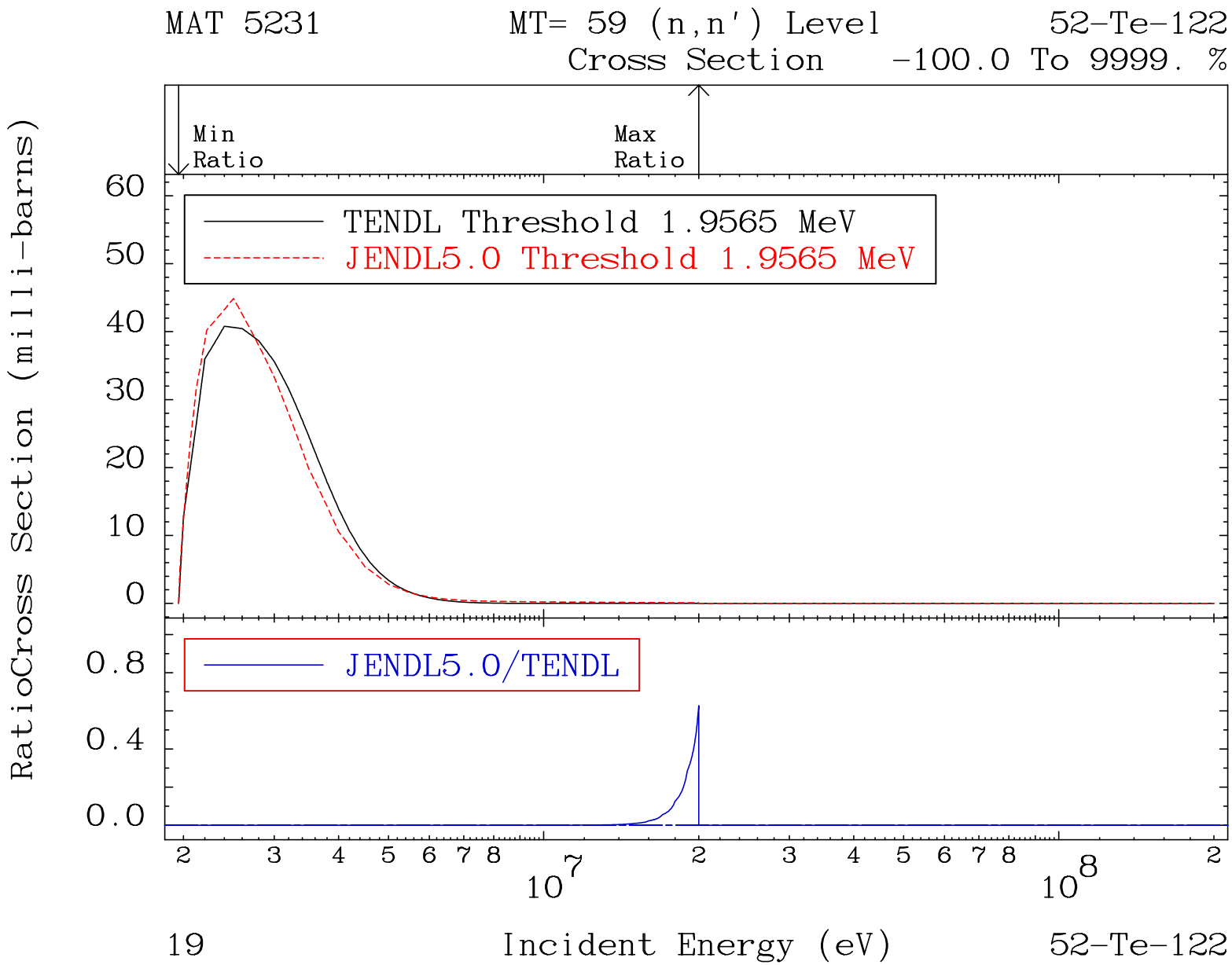

MAT 5231
MT= 54 (n,n') Level
52-Te-122
Cross Section -100.0 To 13.33 %
Max Ratio
Min Ratio
TENDL Threshold 1.3686 MeV
JENDL5.0 Threshold 1.3686 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
52-Te-122

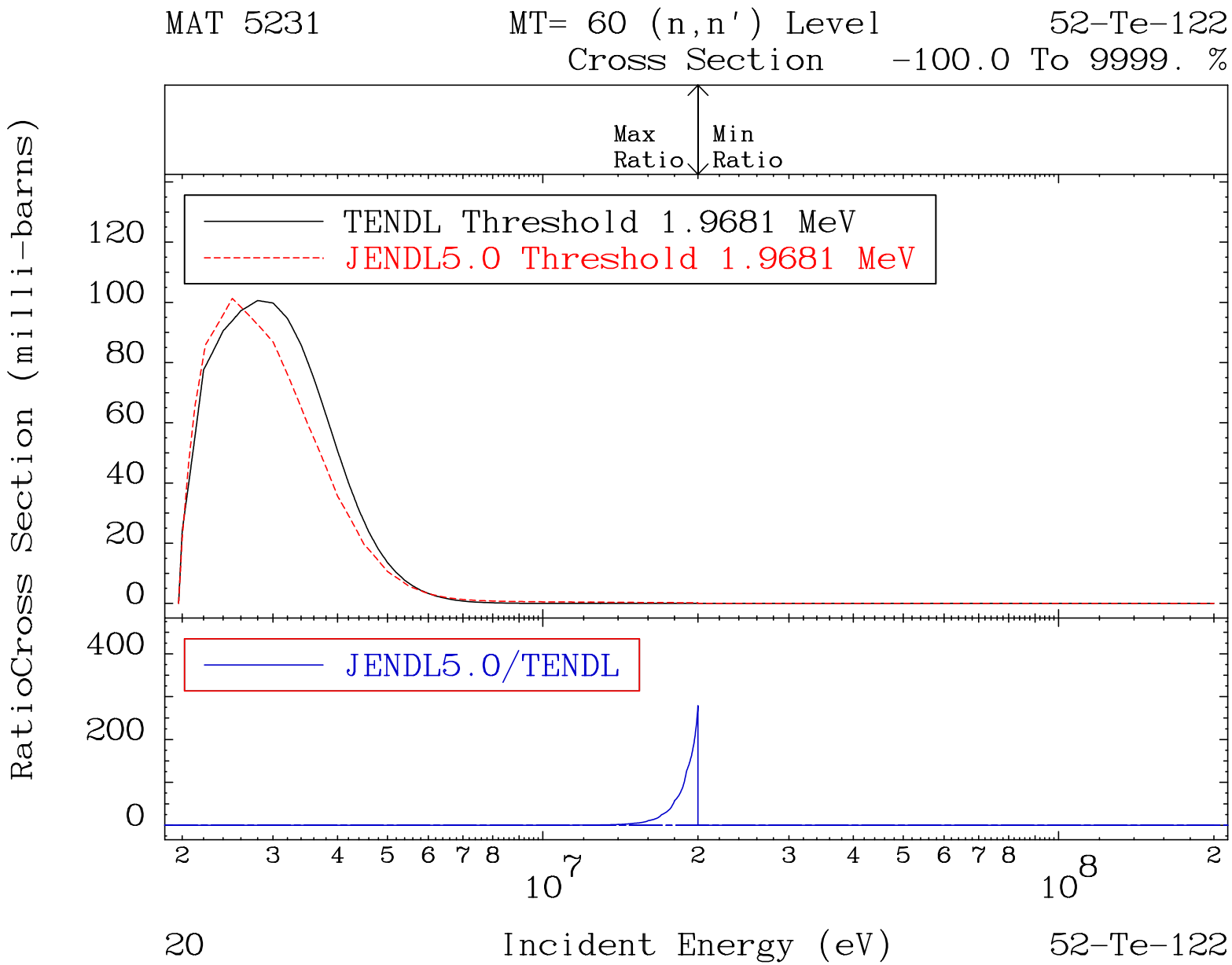

MAT 5231
MT= 55 (n,n') Level
52-Te-122
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7615 MeV
JENDL5.0 Threshold 1.7615 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
52-Te-122

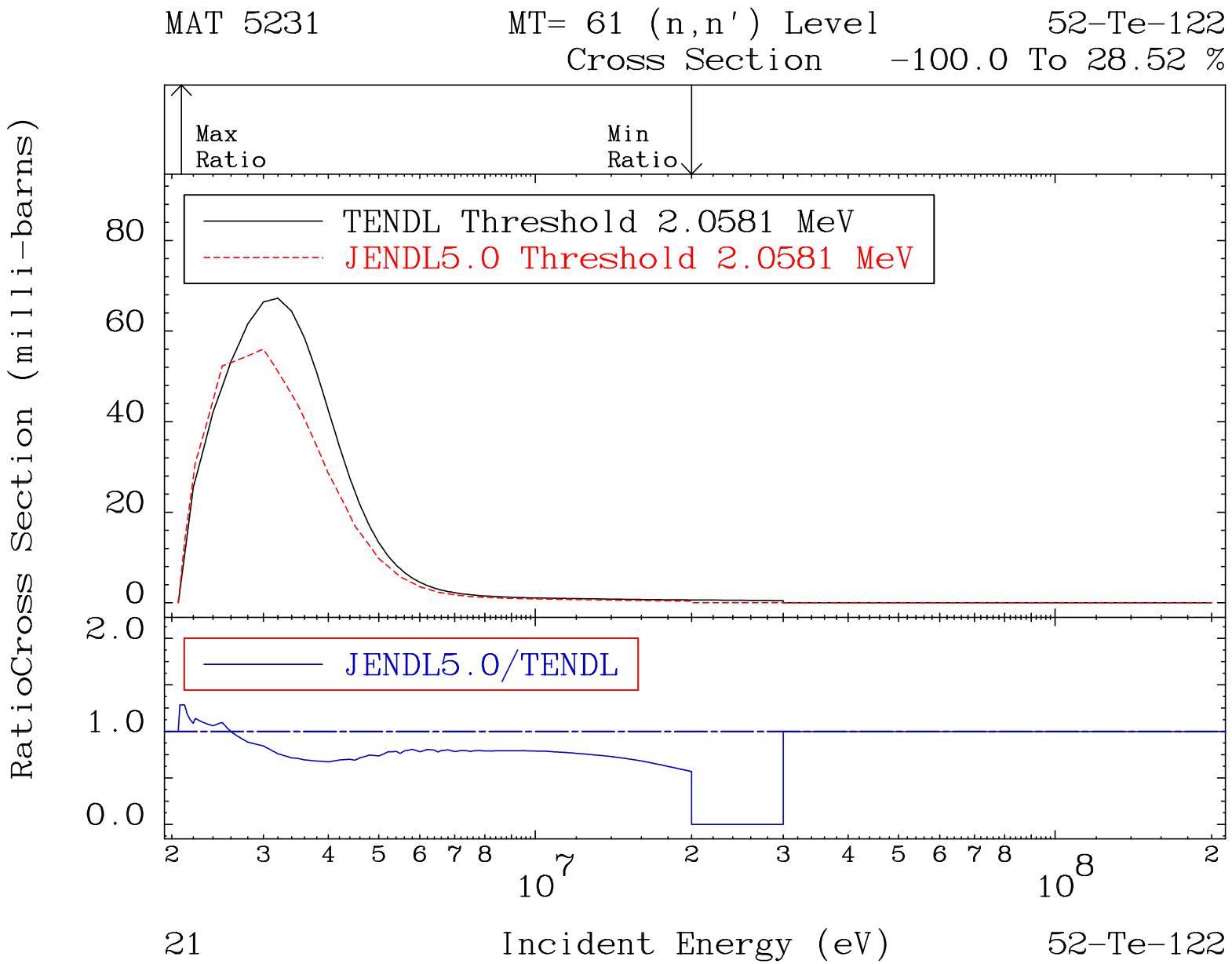

MAT 5231
MT= 56 (n,n') Level
52-Te-122
Cross Section
-100.0 To 153.1 %
Max Ratio
Min Ratio
TENDL Threshold 1.7658 MeV
JENDL5.0 Threshold 1.7658 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
52-Te-122

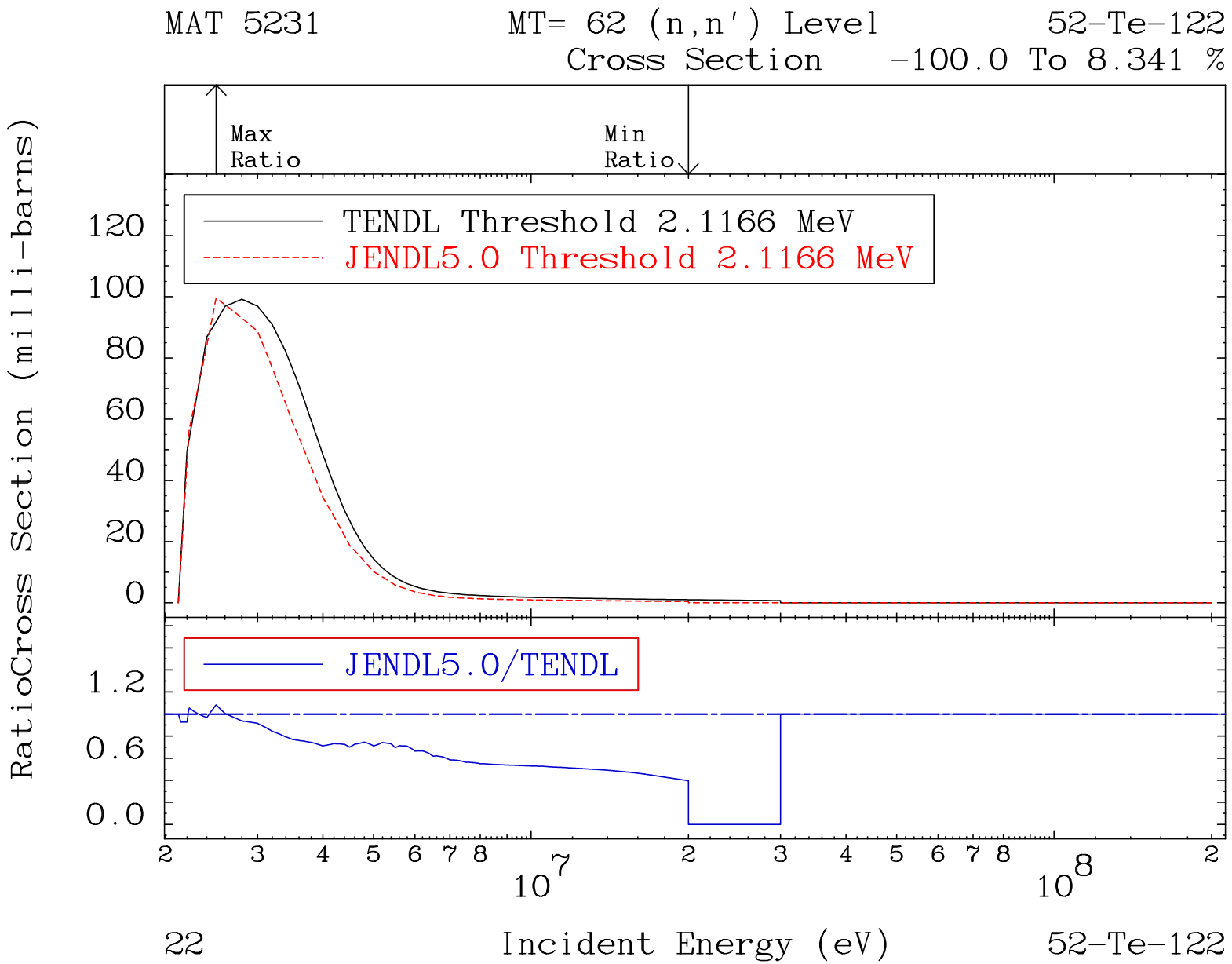

MAT 5231
MT= 57 (n,n') Level
52-Te-122
Cross Section
-100.0 To 15.48 %
Max Ratio
Min Ratio
TENDL Threshold 1.7671 MeV
JENDL5.0 Threshold 1.7671 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
52-Te-122

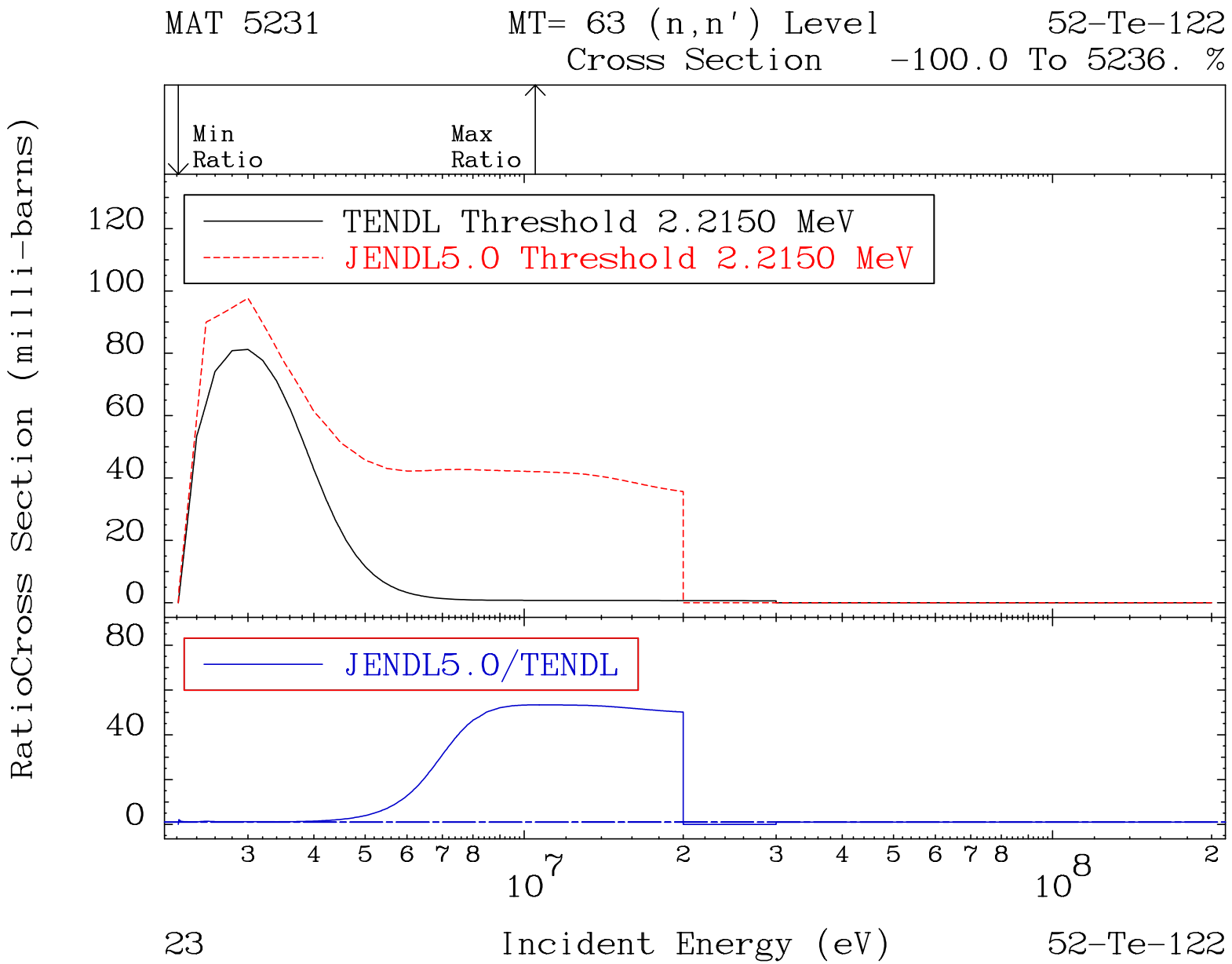

MAT 5231
MT= 58 (n,n') Level
52-Te-122
Cross Section
-100.0 To 22.67 %
Max Ratio
Min Ratio
TENDL Threshold 1.9254 MeV
JENDL5.0 Threshold 1.9254 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
52-Te-122

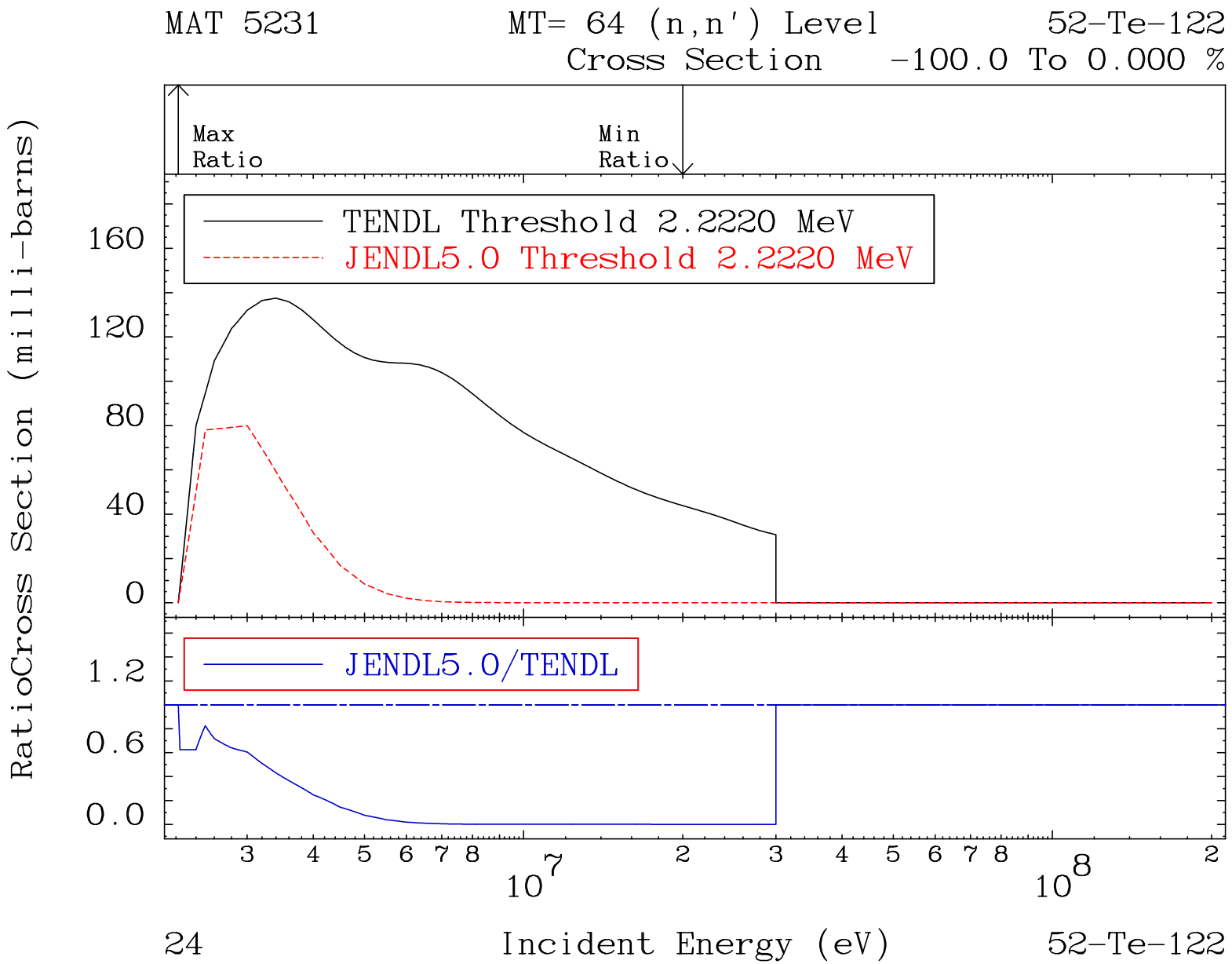

MAT 5231
MT= 59 (n,n') Level
52-Te-122
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9565 MeV
JENDL5.0 Threshold 1.9565 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
52-Te-122

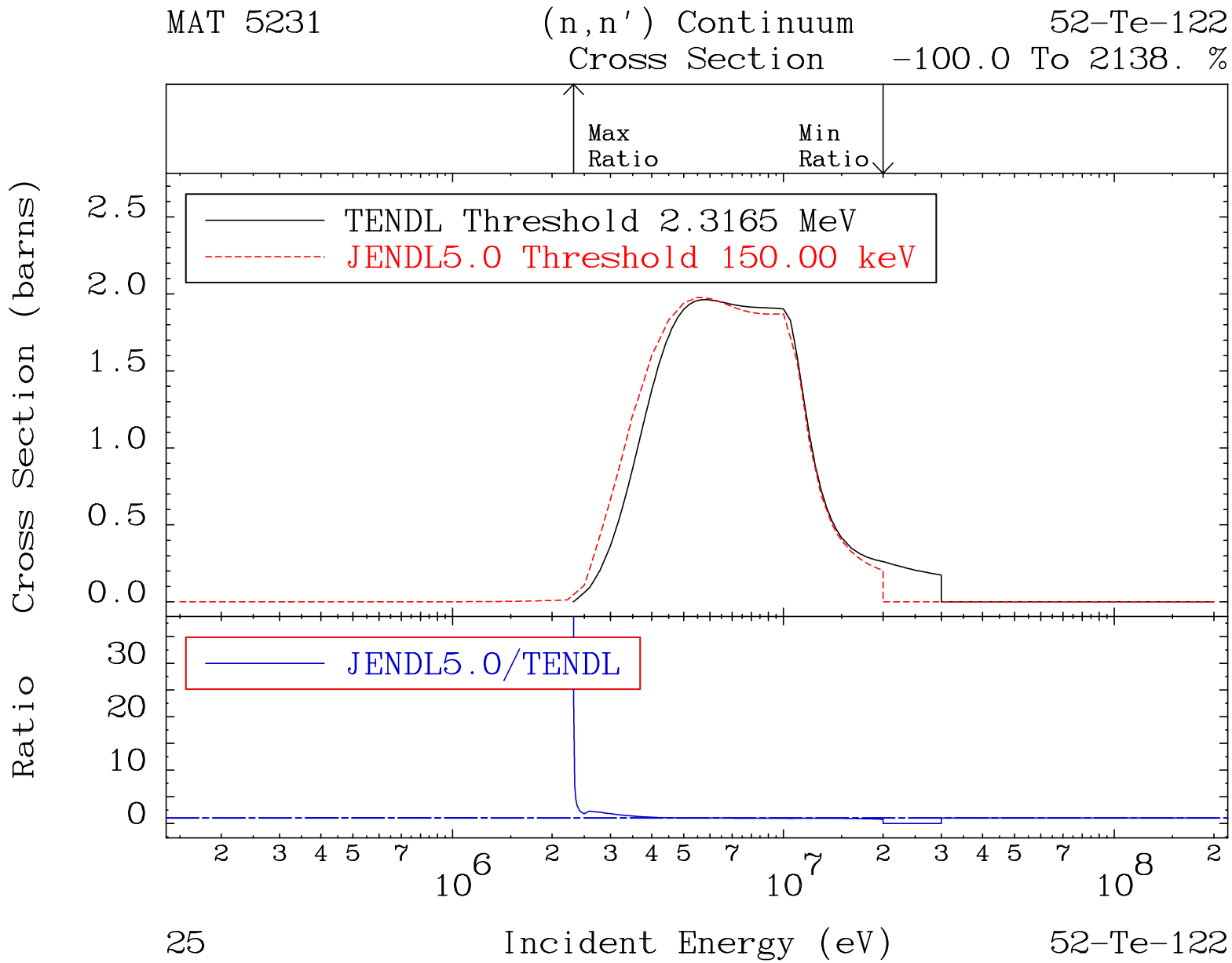

MAT 5231
MT= 60 (n,n') Level
52-Te-122
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9681 MeV
JENDL5.0 Threshold 1.9681 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
400
200
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
52-Te-122

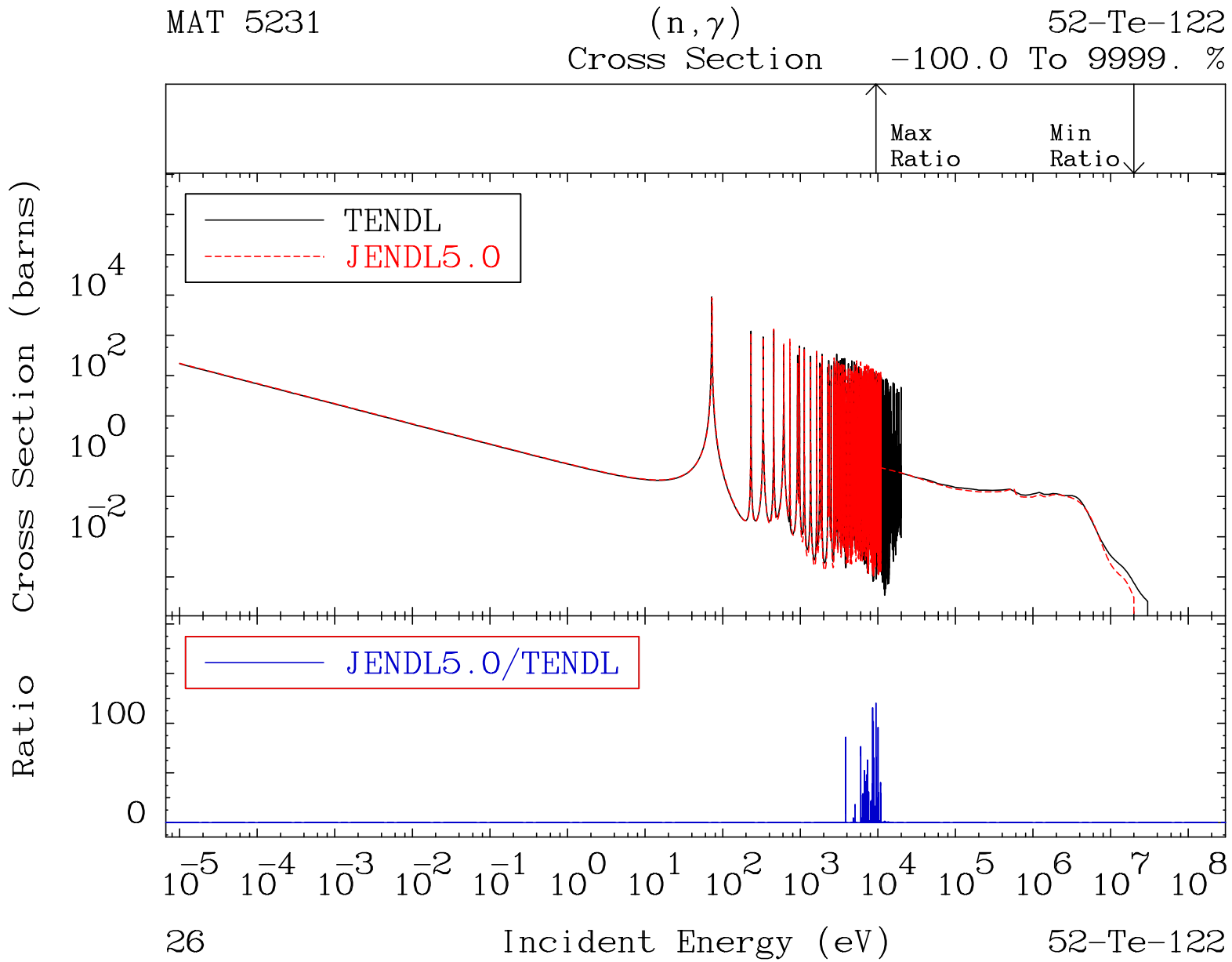

MAT 5231
MT= 61 (n,n') Level
52-Te-122
Cross Section -100.0 To 28.52 %
Max Ratio
Min Ratio
TENDL Threshold 2.0581 MeV
JENDL5.0 Threshold 2.0581 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
52-Te-122

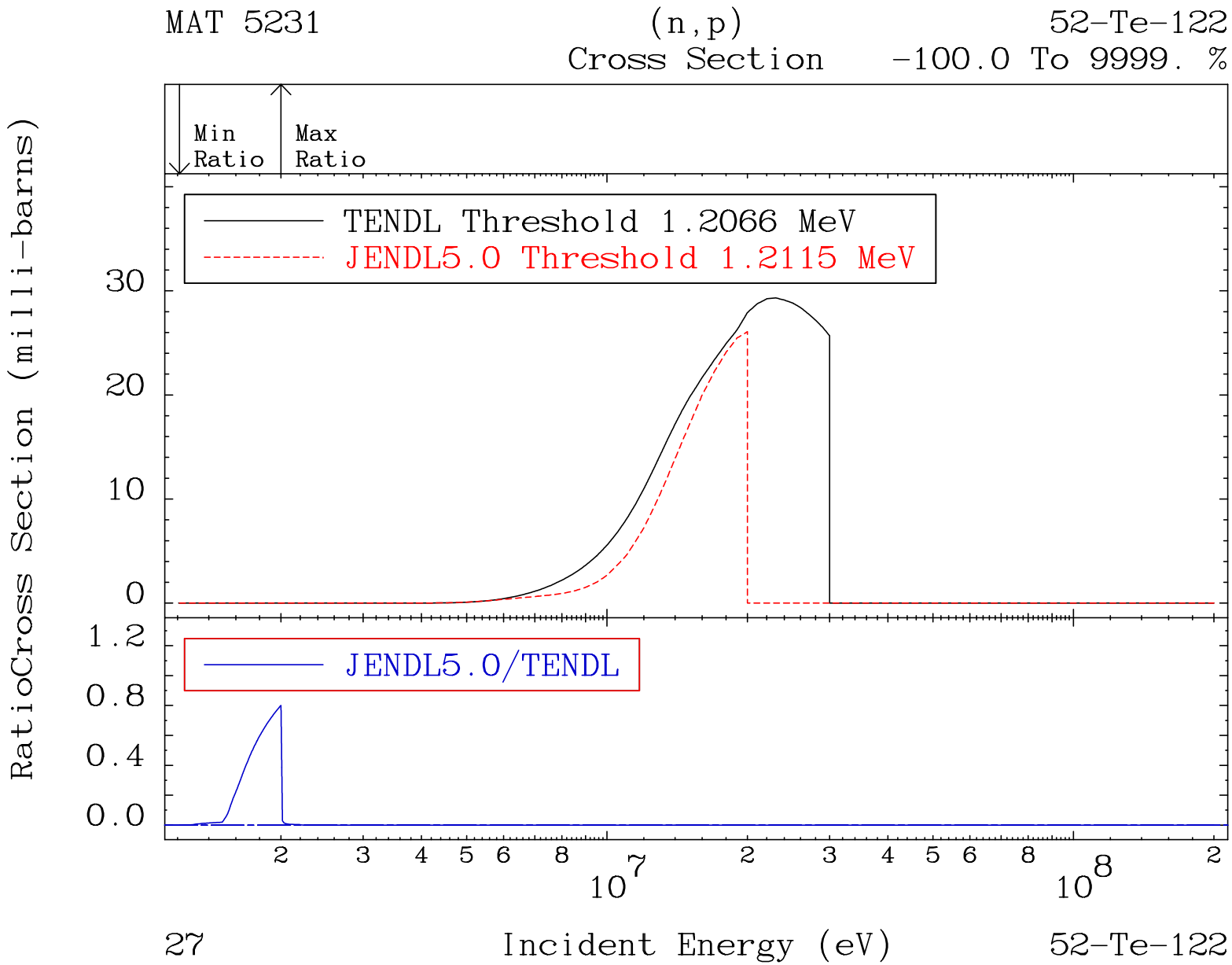

MAT 5231
MT= 62 (n,n') Level
52-Te-122
Cross Section
-100.0 To 8.341 %
Max Ratio
Min Ratio
TENDL Threshold 2.1166 MeV
JENDL5.0 Threshold 2.1166 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
52-Te-122

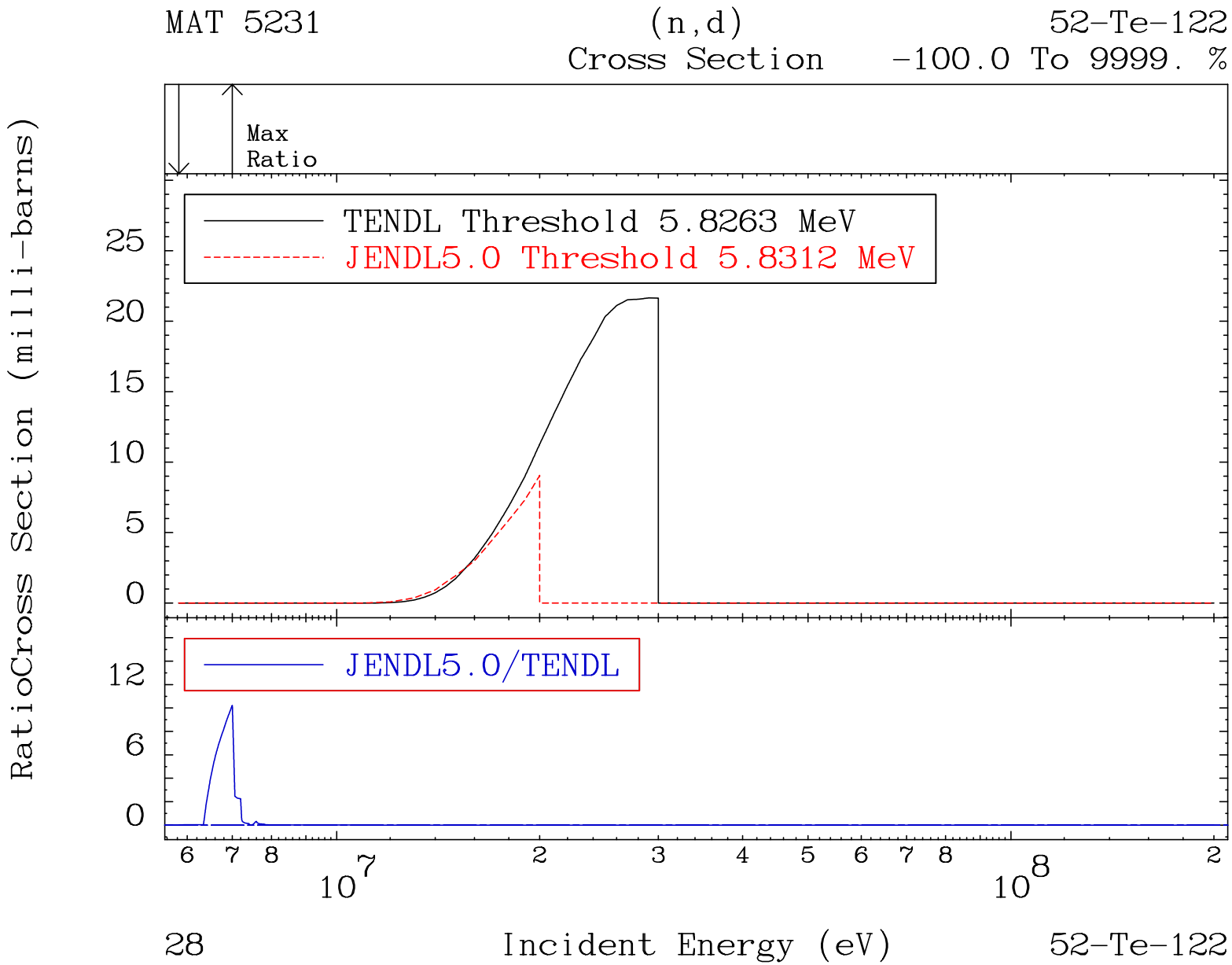

MAT 5231
MT= 63 (n,n') Level
52-Te-122
Cross Section -100.0 To 5236. %
Min Ratio
Max Ratio
TENDL Threshold 2.2150 MeV
JENDL5.0 Threshold 2.2150 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
52-Te-122

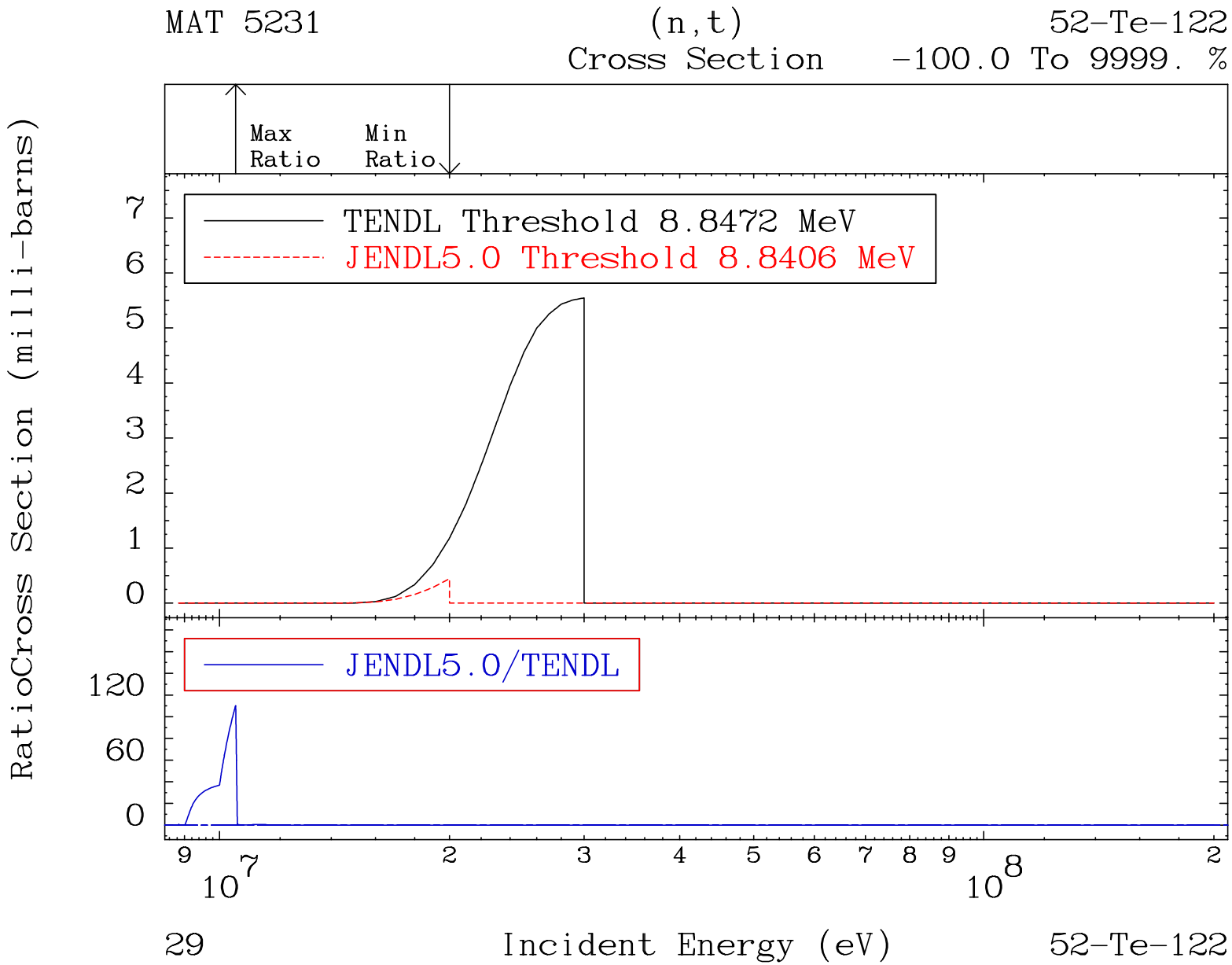

MAT 5231
MT= 64 (n,n') Level
52-Te-122
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.2220 MeV
JENDL5.0 Threshold 2.2220 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
52-Te-122

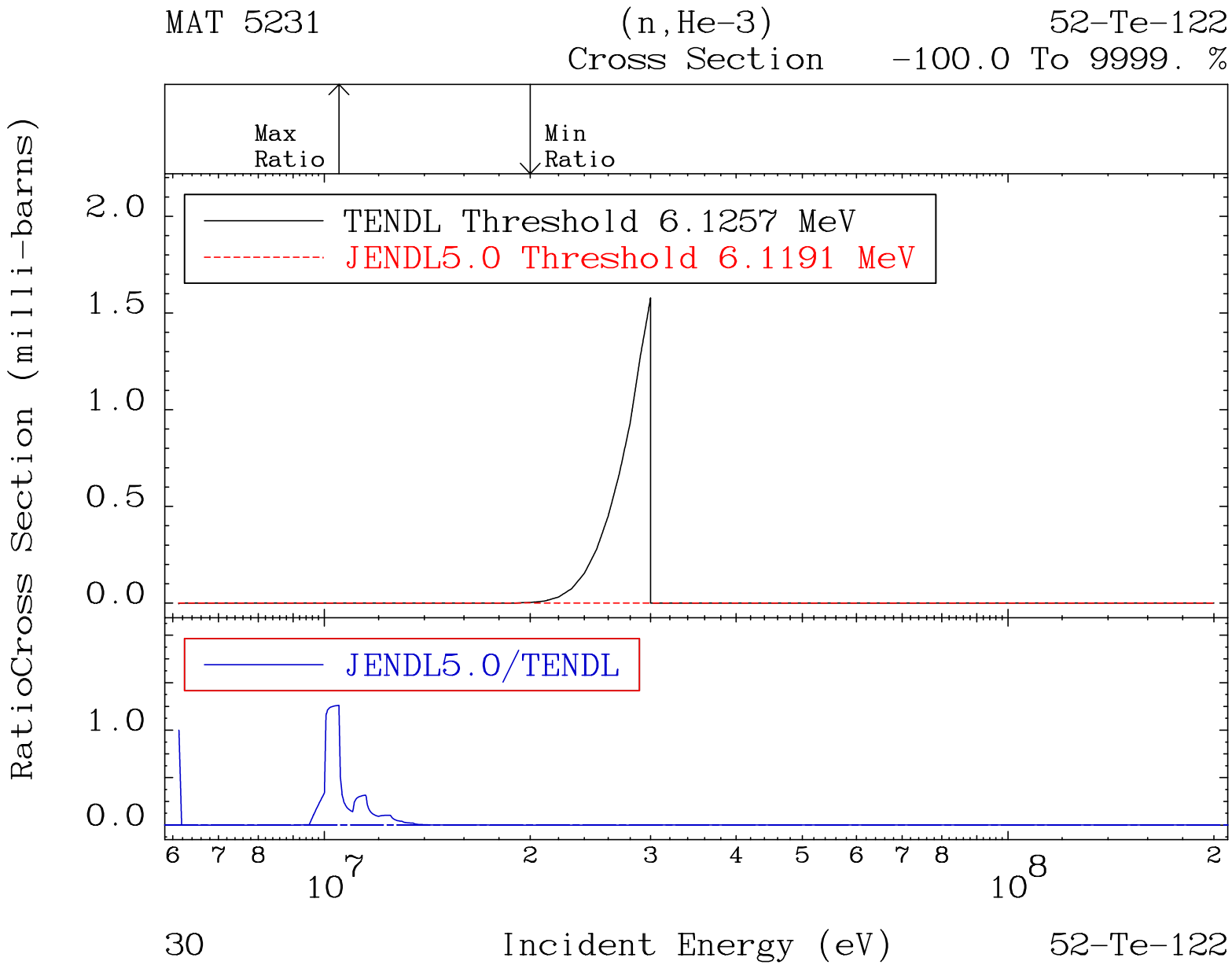

MAT 5231
(n,n') Continuum
Cross Section
52-Te-122
-100.0 To 2138. %
Max Ratio
Min Ratio
TENDL Threshold 2.3165 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
25
52-Te-122

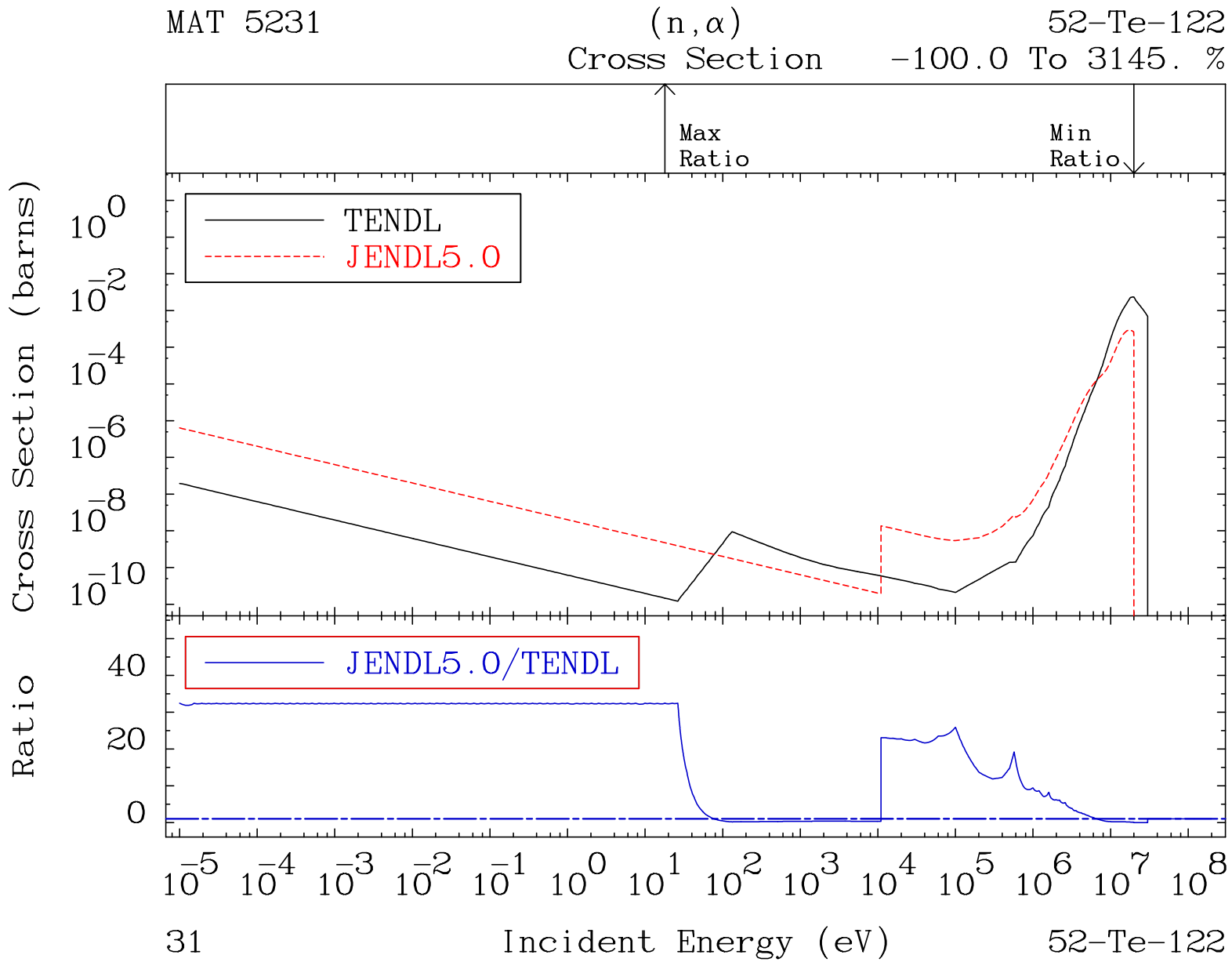

MAT 5231
(n,γ)
Cross Section
52-Te-122
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
100
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
52-Te-122

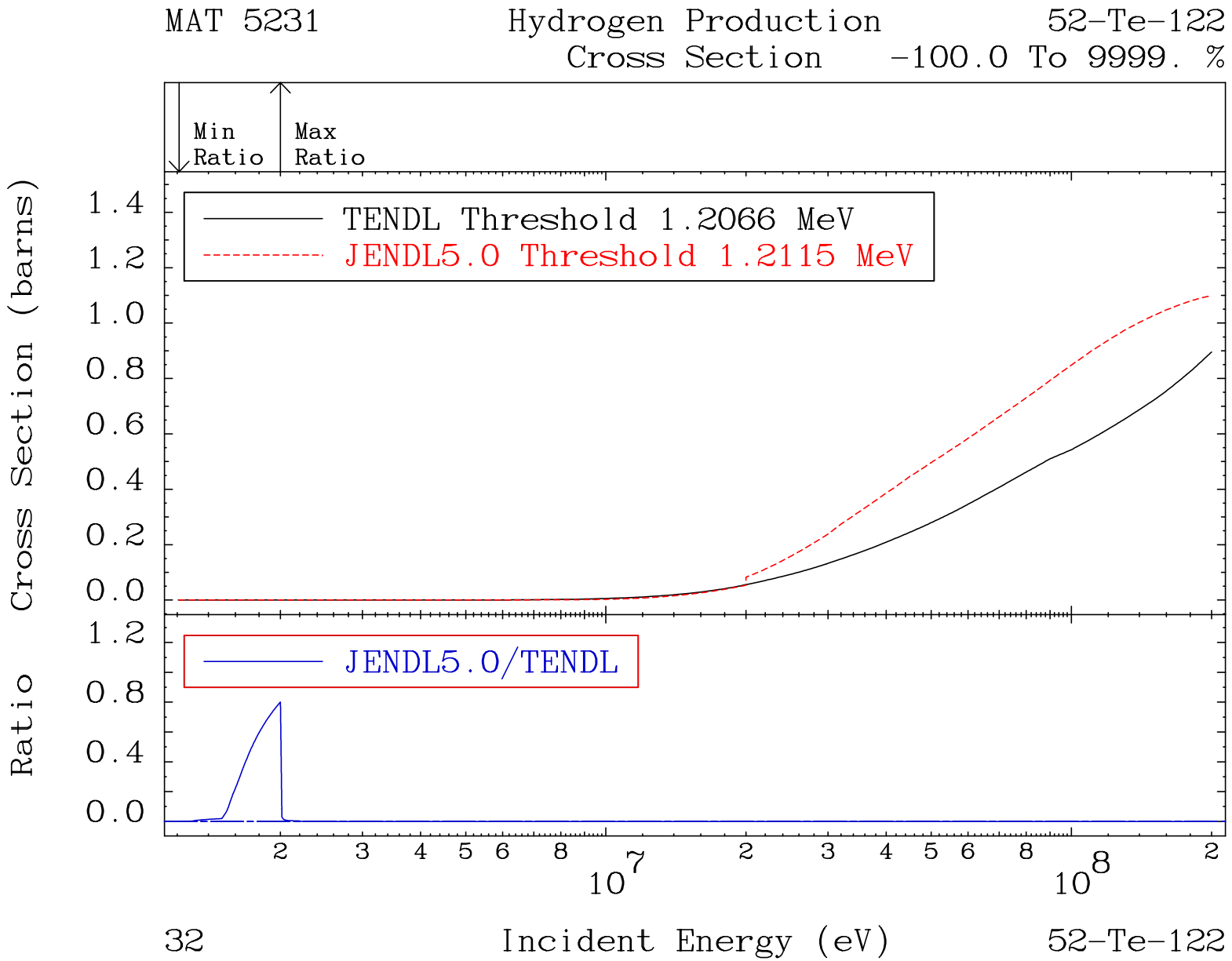

MAT 5231
(n,p)
52-Te-122
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2066 MeV
JENDL5.0 Threshold 1.2115 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.8
0.4
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
27
Incident Energy (eV)
52-Te-122

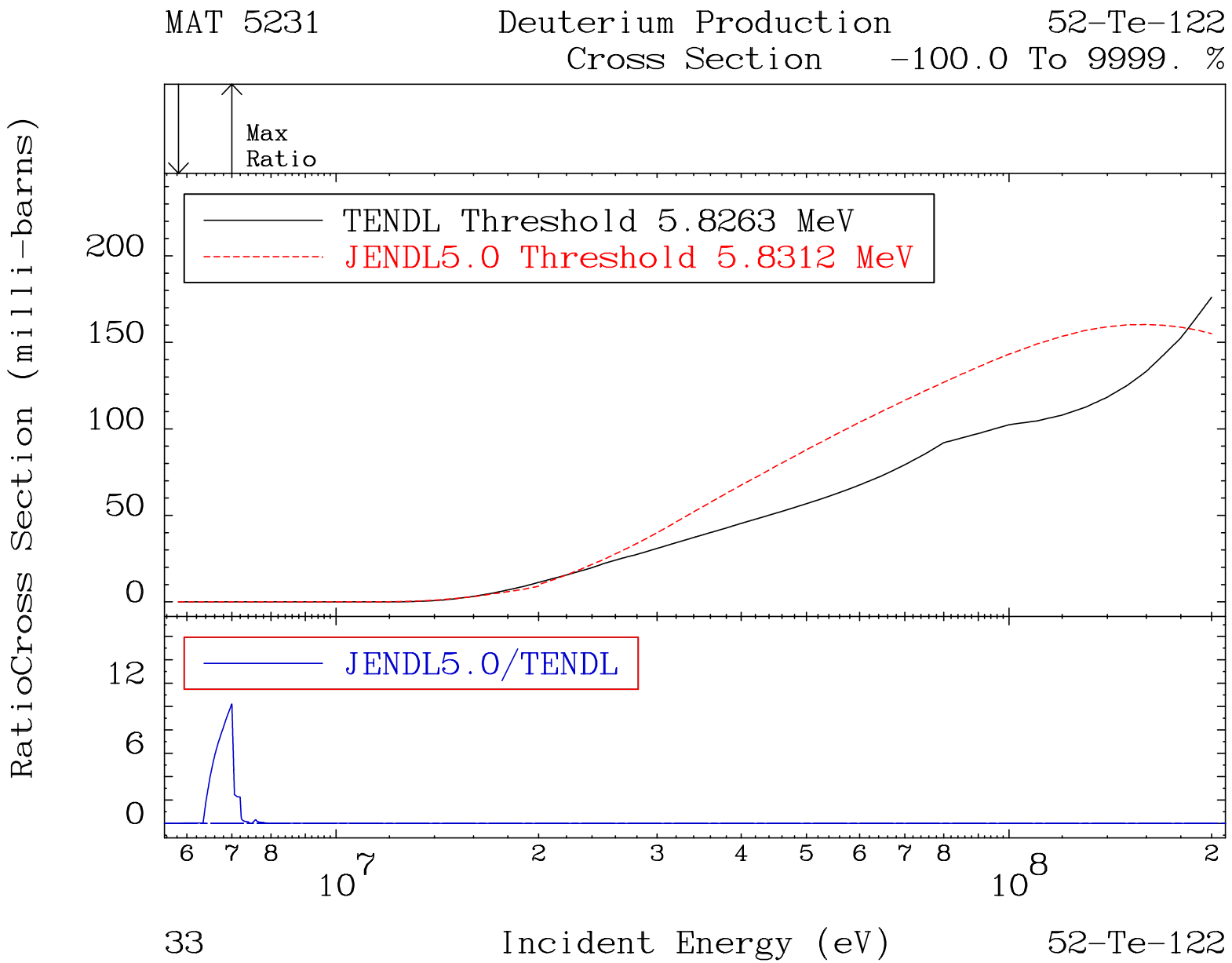

MAT 5231
(n,d)
Cross Section
52-Te-122
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.8263 MeV
JENDL5.0 Threshold 5.8312 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
12
6
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
52-Te-122

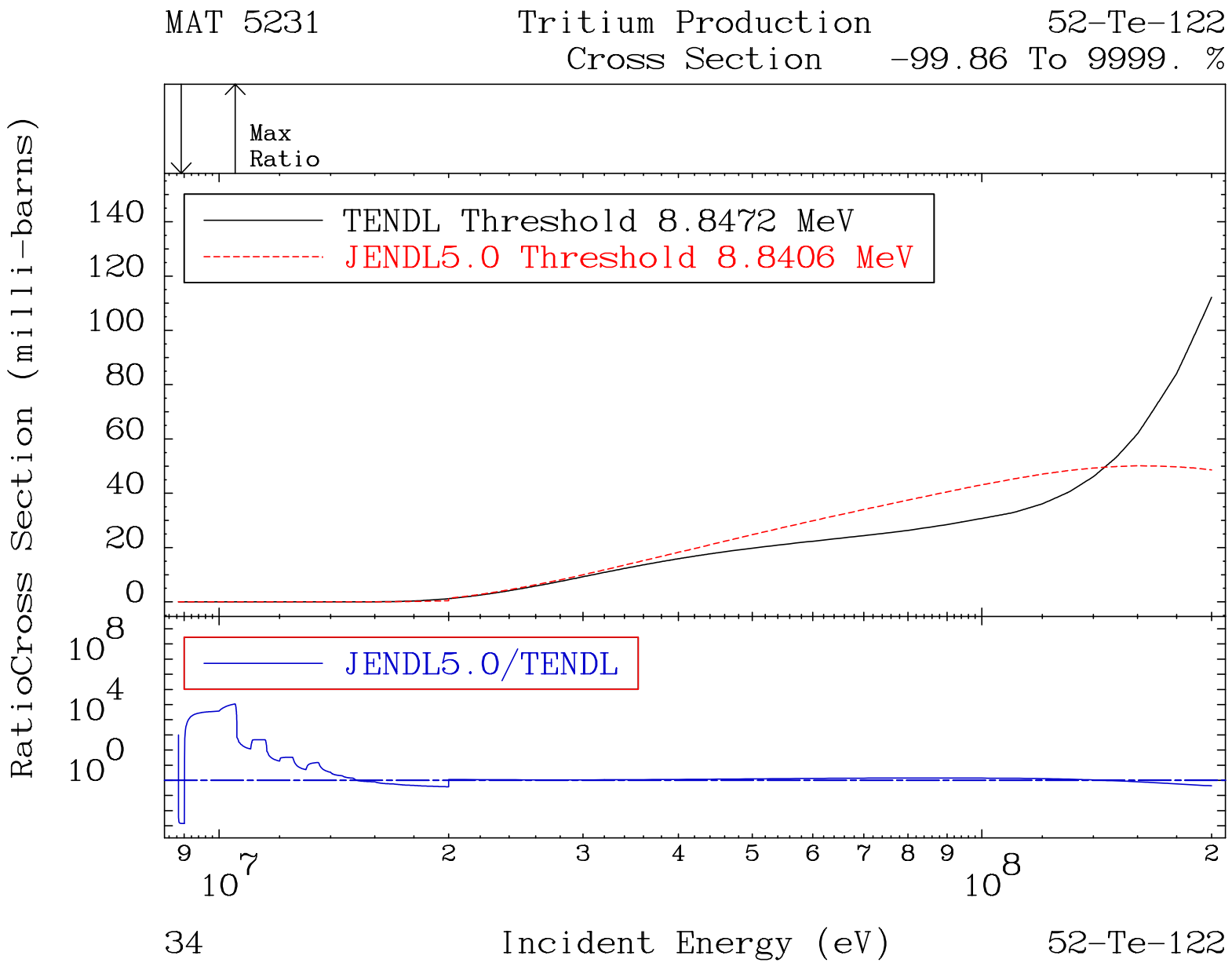

MAT 5231
(n,t)
Cross Section
52-Te-122
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.8472 MeV
JENDL5.0 Threshold 8.8406 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
52-Te-122

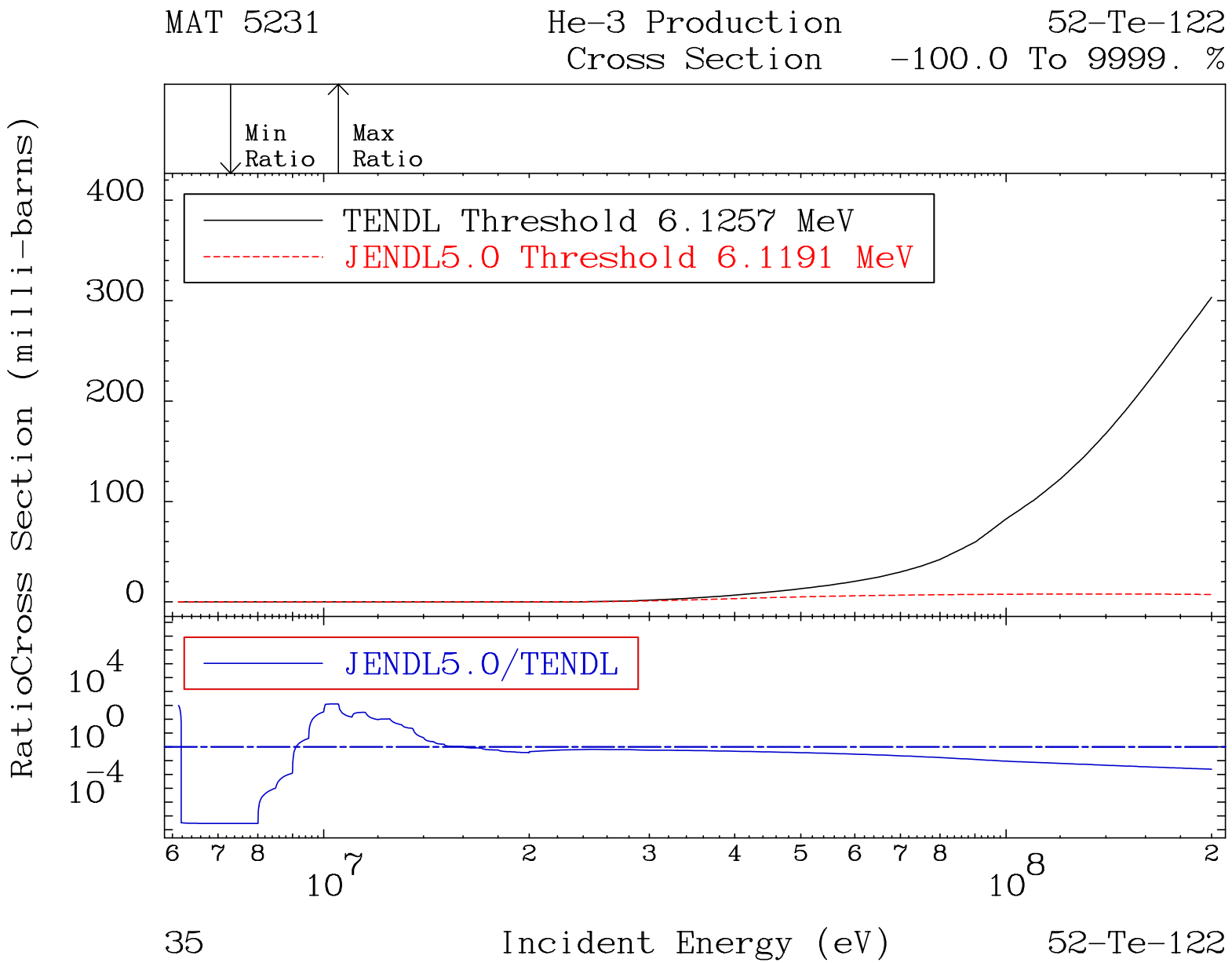

MAT 5231
(n,He-3)
Cross Section
52-Te-122
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.1257 MeV
JENDL5.0 Threshold 6.1191 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
1.0
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
52-Te-122

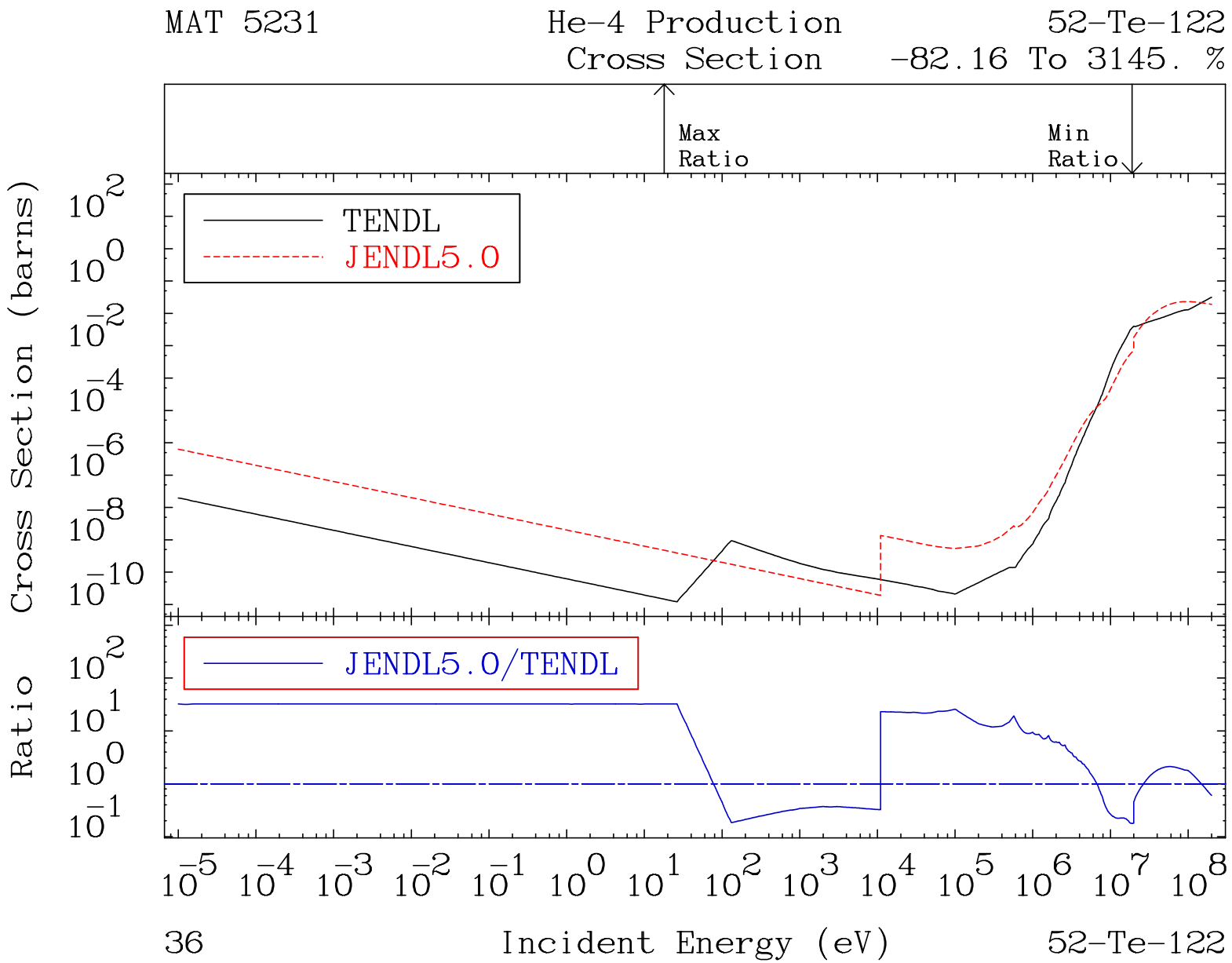

MAT 5231
(n,α)
Cross Section
52-Te-122
-100.0 To 3145. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
31
52-Te-122

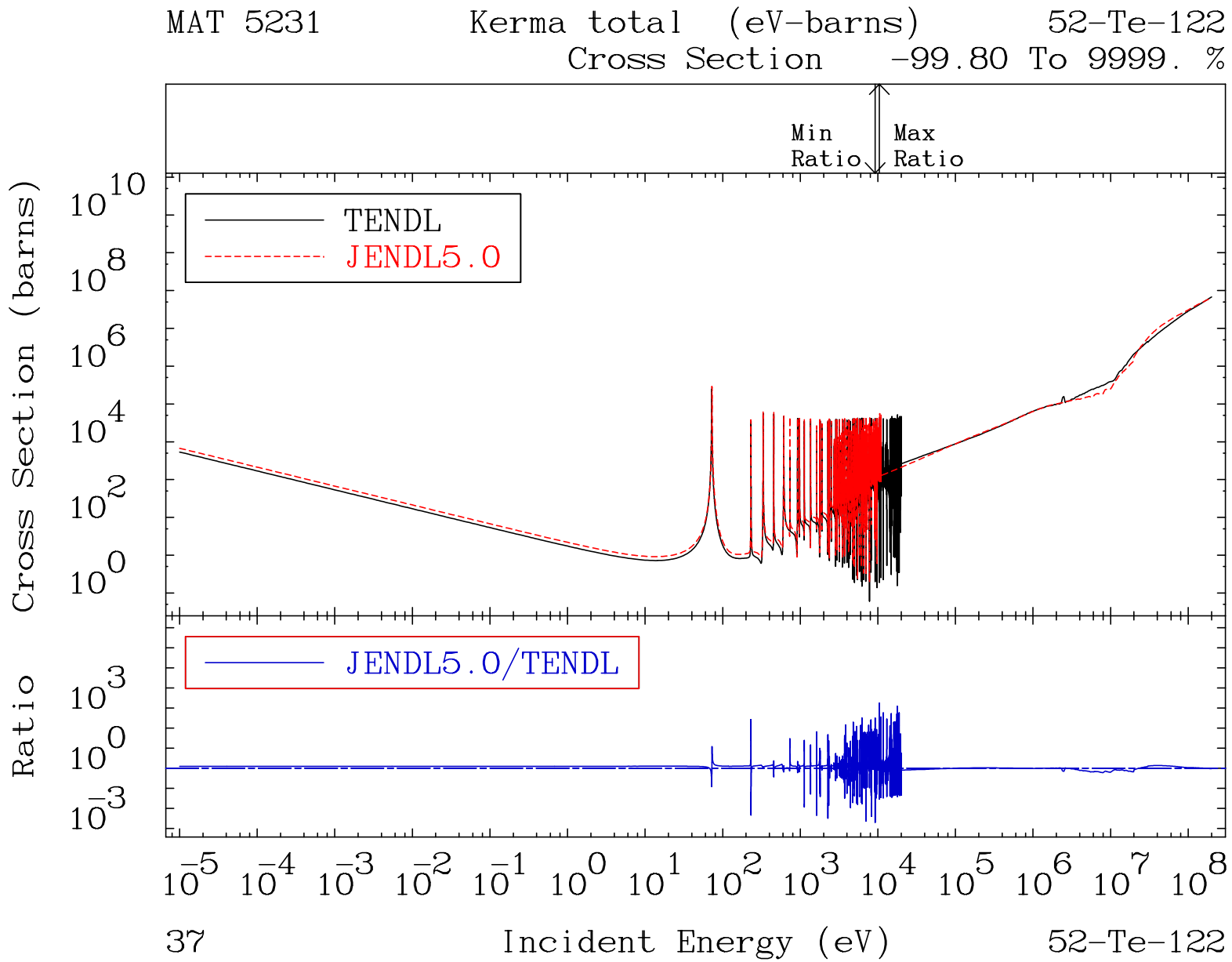

MAT 5231
Hydrogen Production
52-Te-122
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2066 MeV
JENDL5.0 Threshold 1.2115 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
52-Te-122

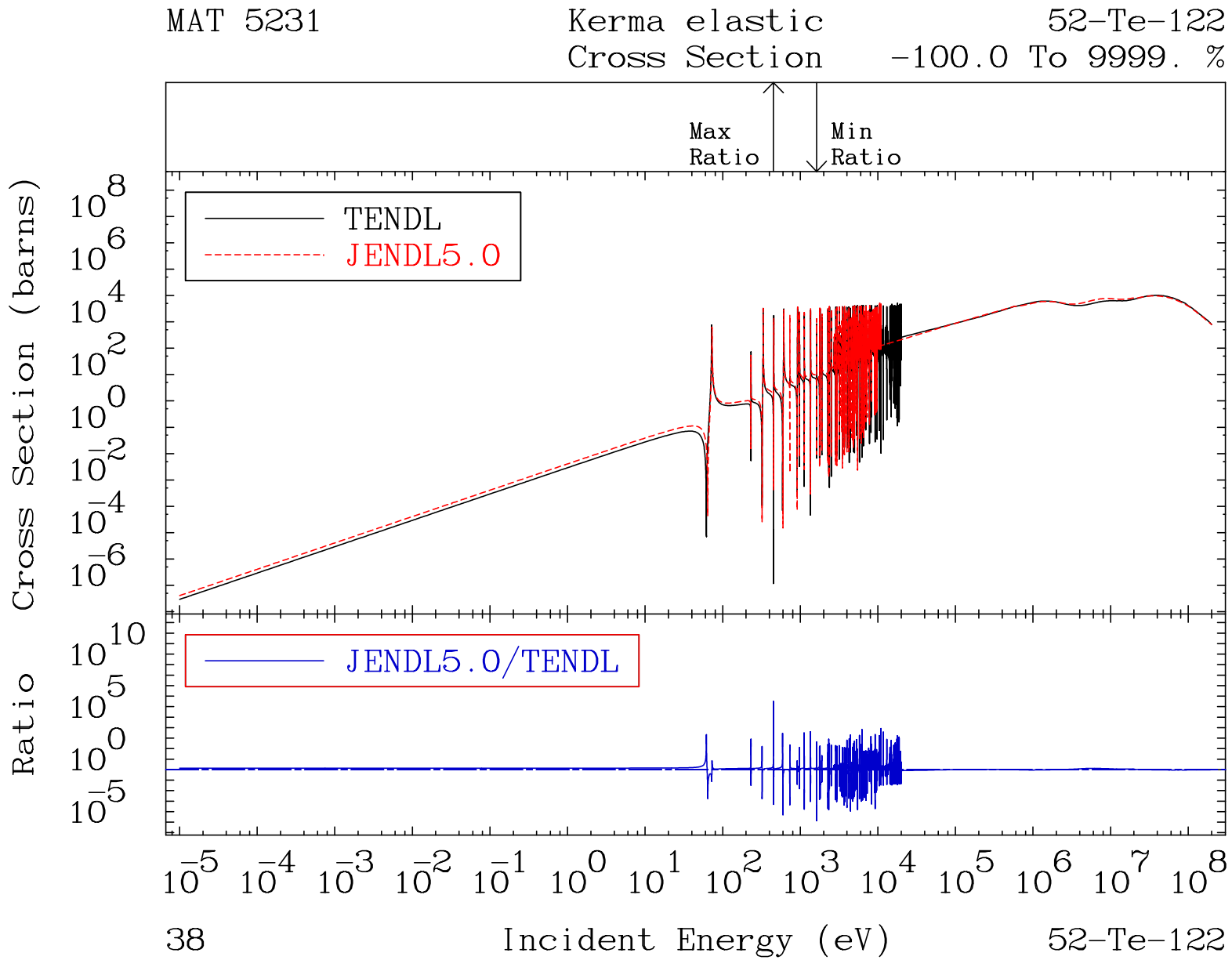

MAT 5231
Deuterium Production
52-Te-122
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.8263 MeV
JENDL5.0 Threshold 5.8312 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
12
6
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
52-Te-122

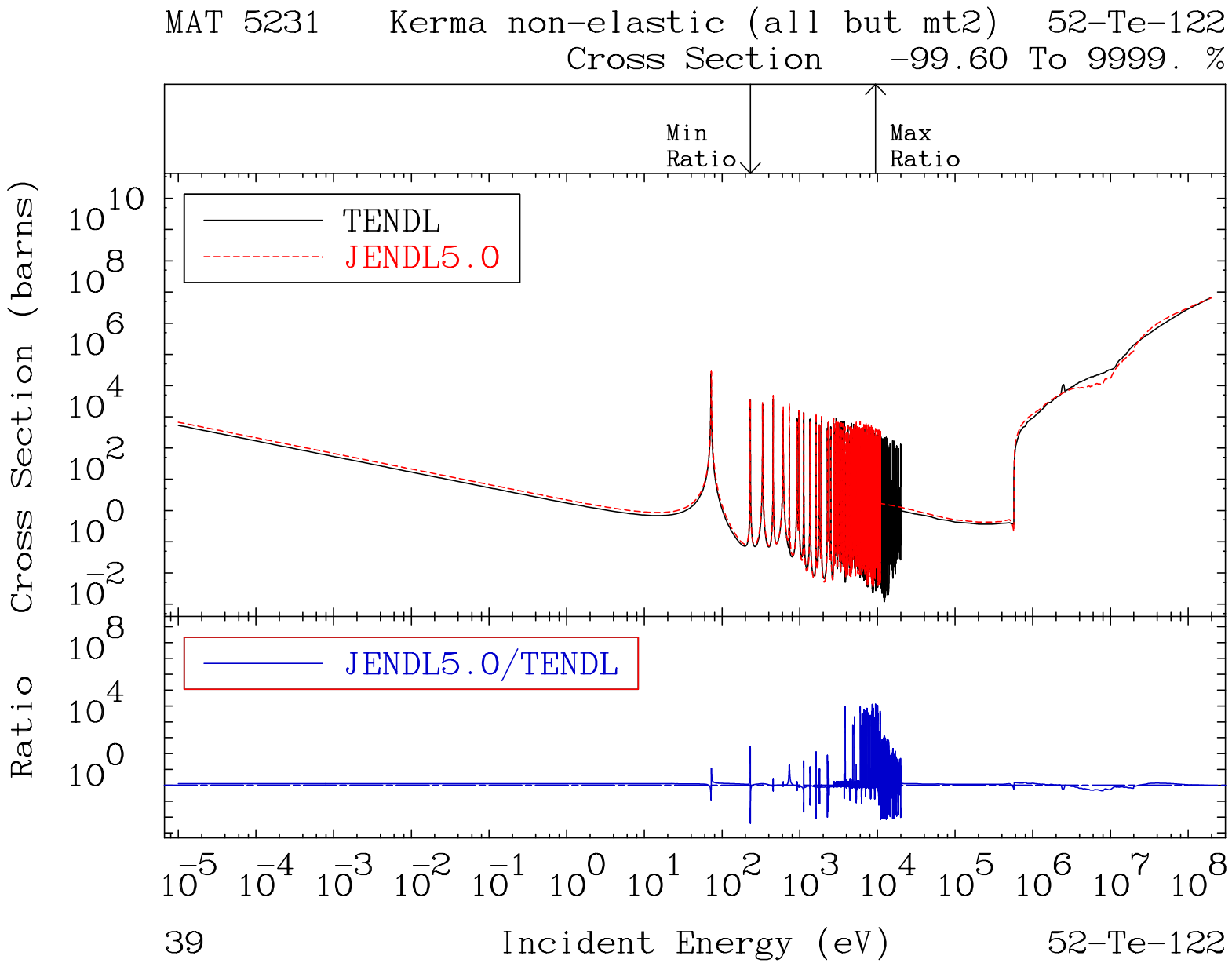

MAT 5231
Tritium Production
Cross Section
52-Te-122
-99.86 To 9999. %
Max
Ratio
TENDL Threshold 8.8472 MeV
JENDL5.0 Threshold 8.8406 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^8
10^4
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
52-Te-122

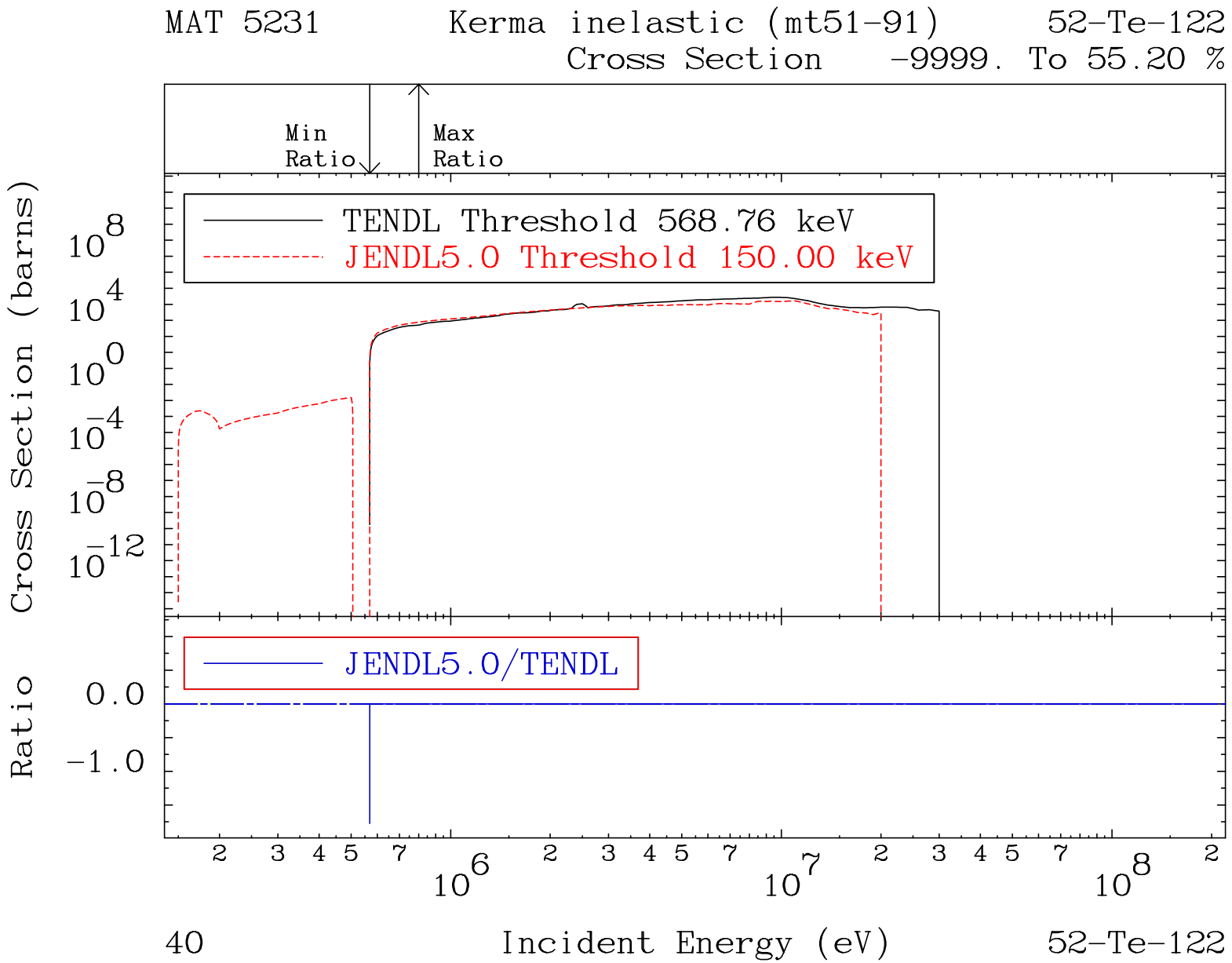

MAT 5231
He-3 Production
Cross Section
52-Te-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.1257 MeV
JENDL5.0 Threshold 6.1191 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
35
52-Te-122

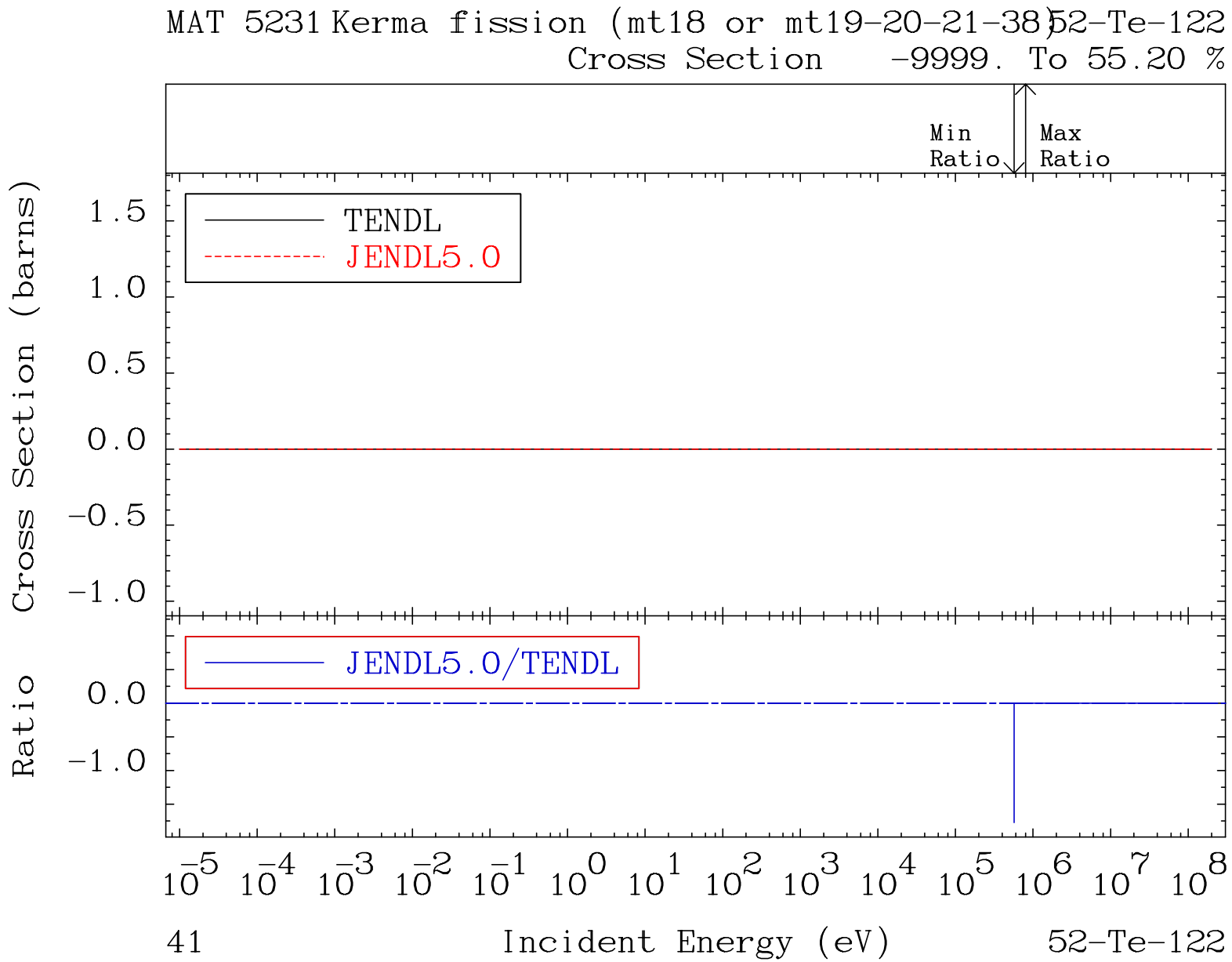

MAT 5231
He-4 Production
Cross Section
52-Te-122
-82.16 To 3145. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
52-Te-122

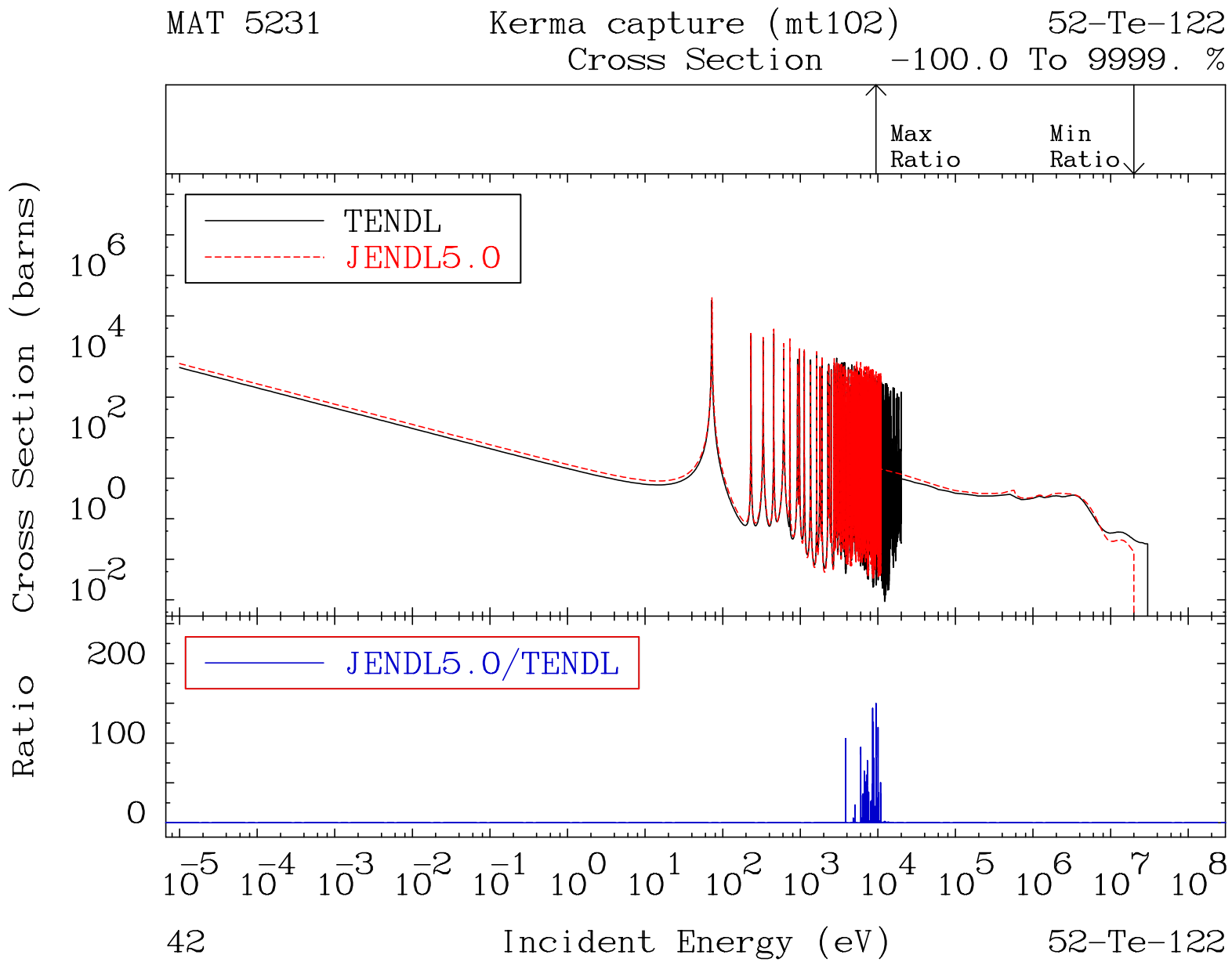

MAT 5231
Kerma total (eV-barns)
52-Te-122
Cross Section -99.80 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
52-Te-122

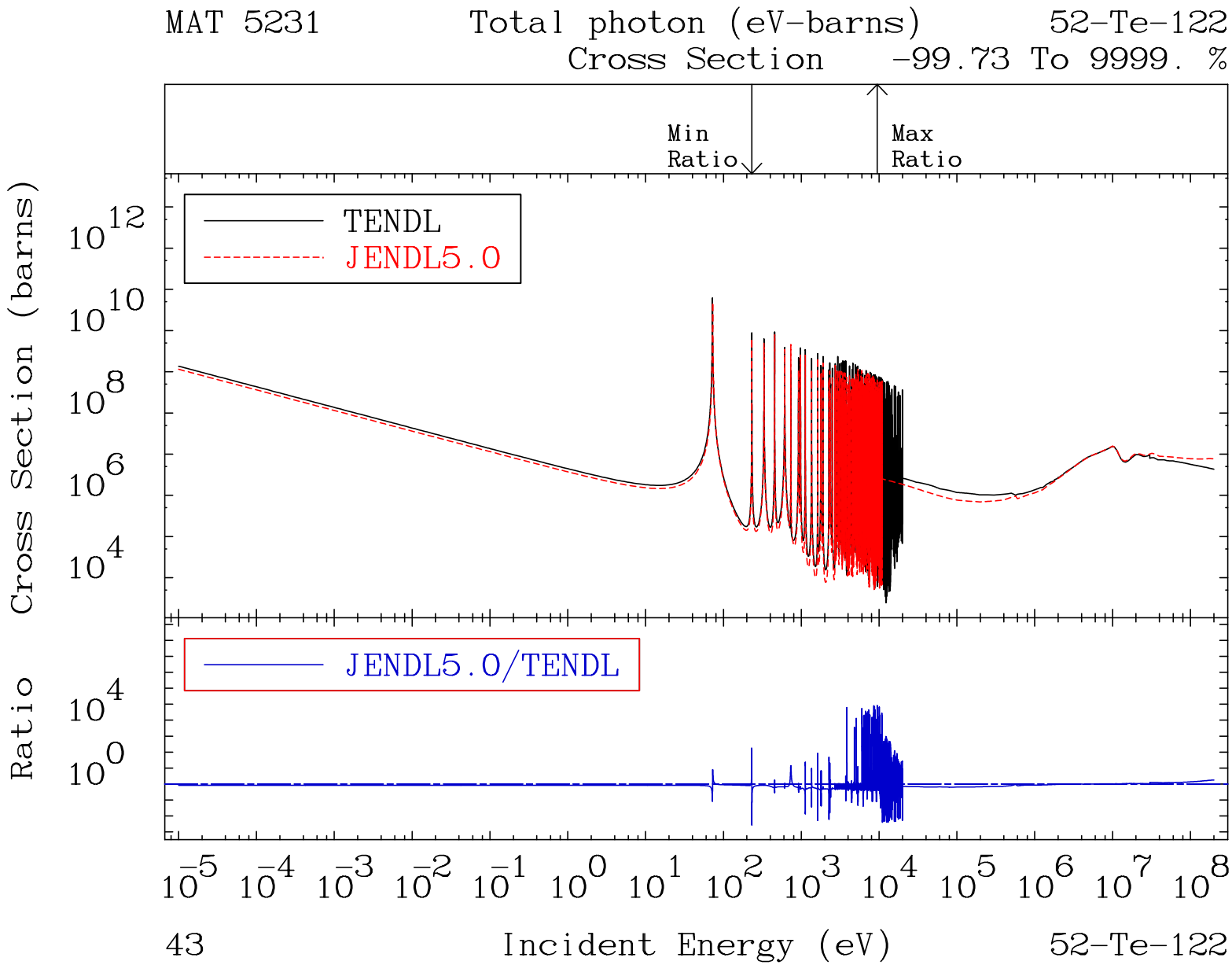

MAT 5231
Kerma elastic
Cross Section
52-Te-122
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
52-Te-122

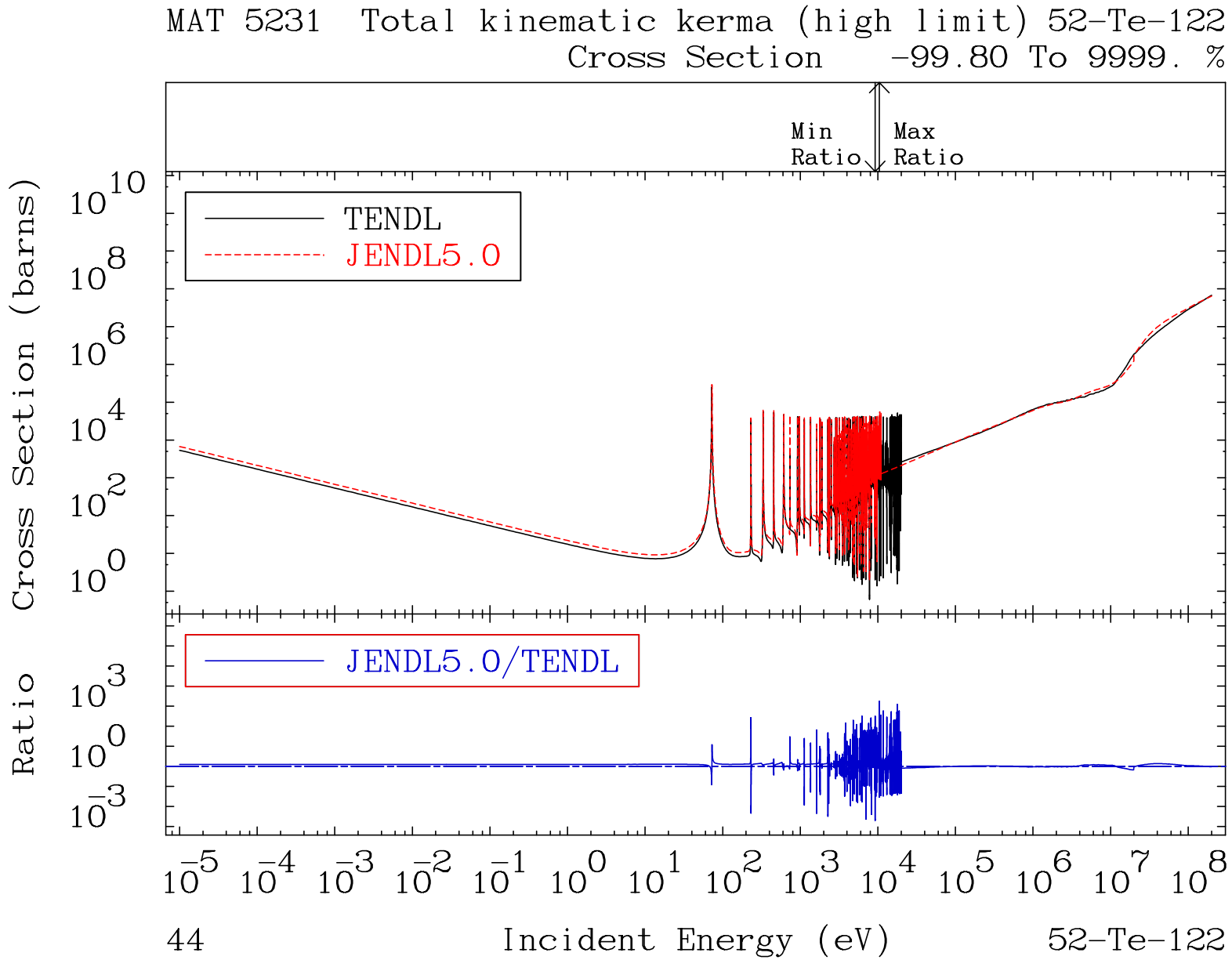

MAT 5231 Kerma non-elastic (all but mt2) 52-Te-122
Cross Section -99.60 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
52-Te-122

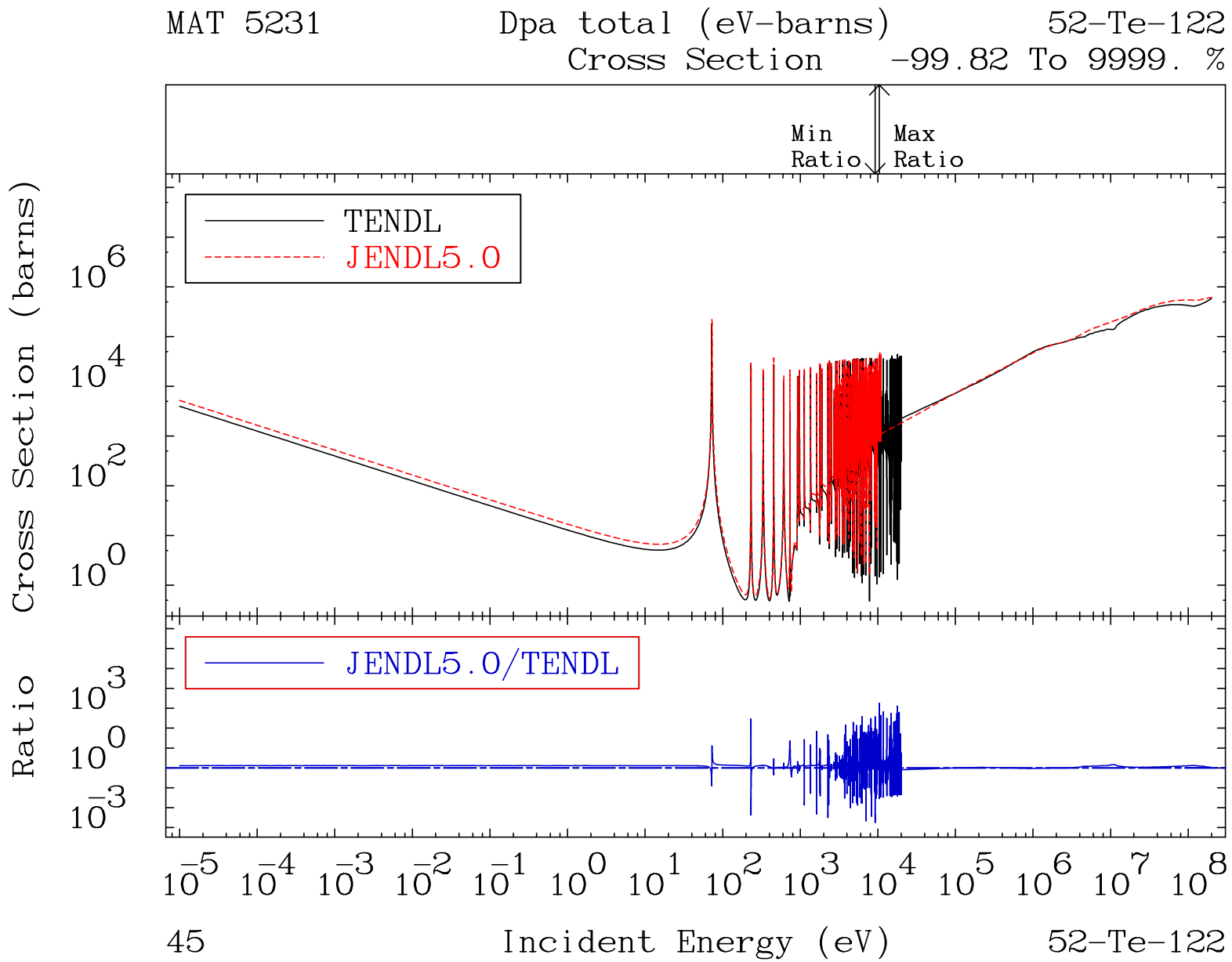

MAT 5231
Kerma inelastic (mt51-91)
52-Te-122
Cross Section -9999. To 55.20 %
Min Ratio
Max Ratio
TENDL Threshold 568.76 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
40
52-Te-122

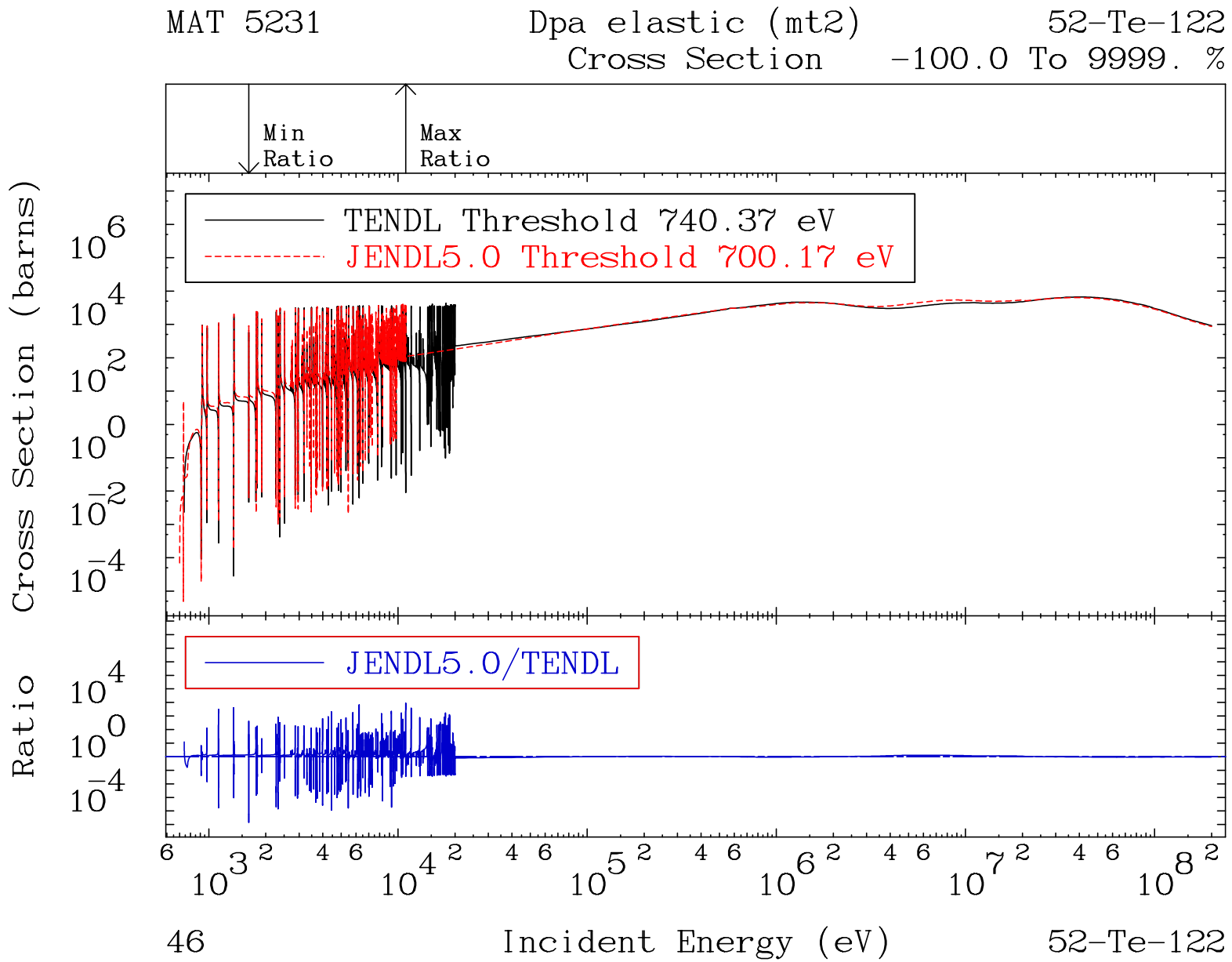

MAT 5231 Kerma fission (mt18 or mt19-20-21-38) 52-Te-122
Cross Section -9999. To 55.20 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0.0
-1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
41
Incident Energy (eV)
52-Te-122

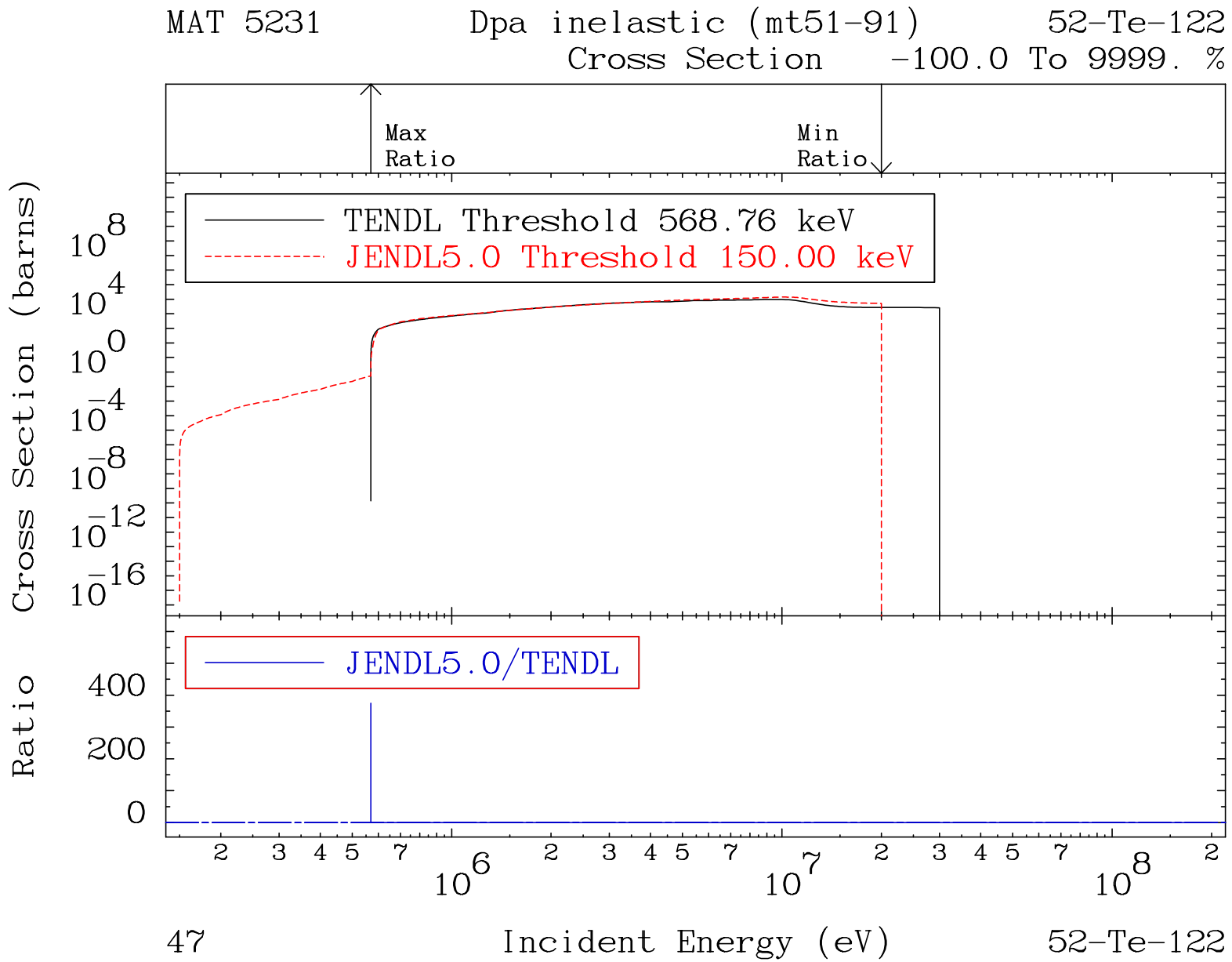

MAT 5231
Kerma capture (mt102)
52-Te-122
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
200
100
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
52-Te-122

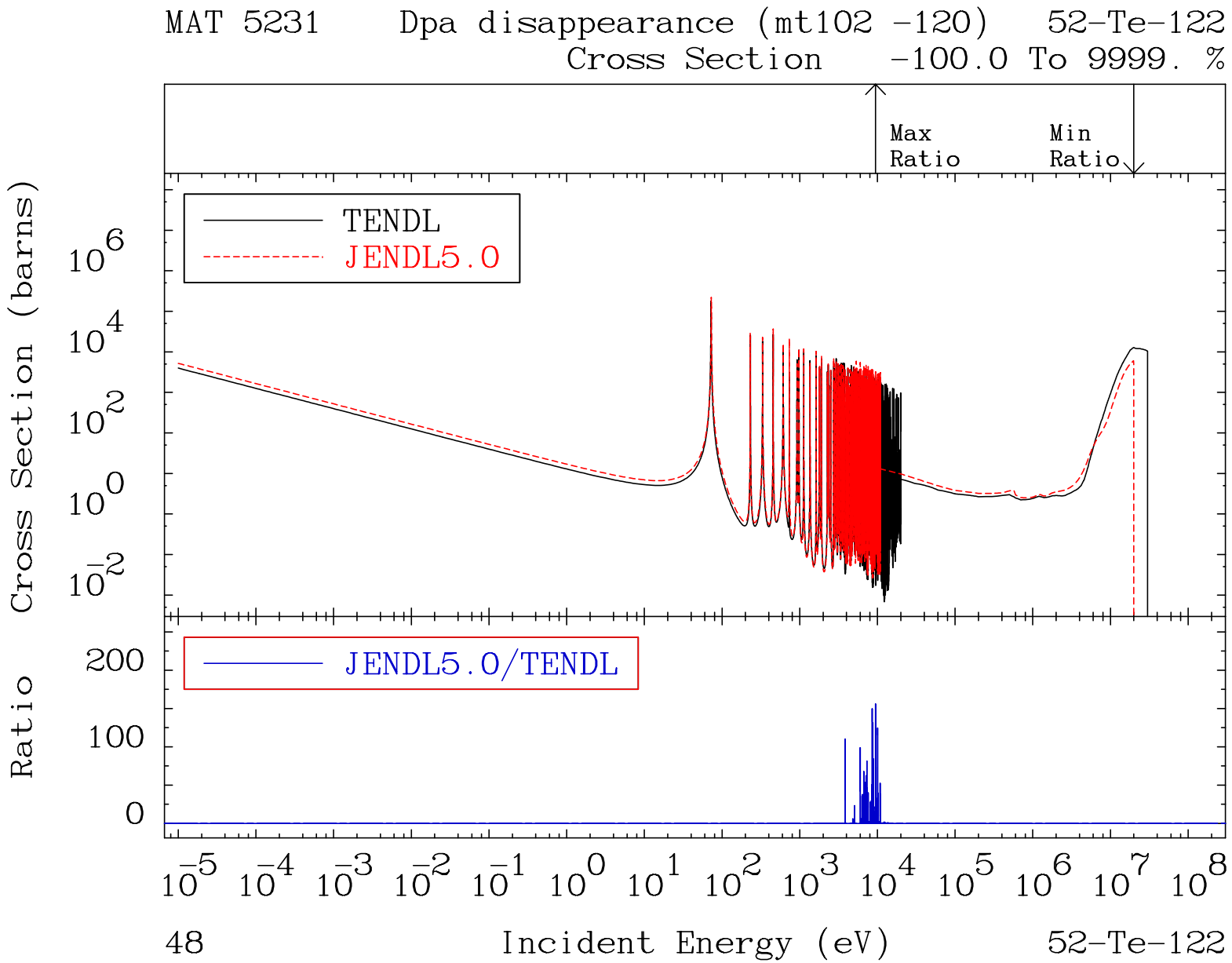

MAT 5231
Total photon (eV-barns)
52-Te-122
Cross Section -99.73 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
52-Te-122

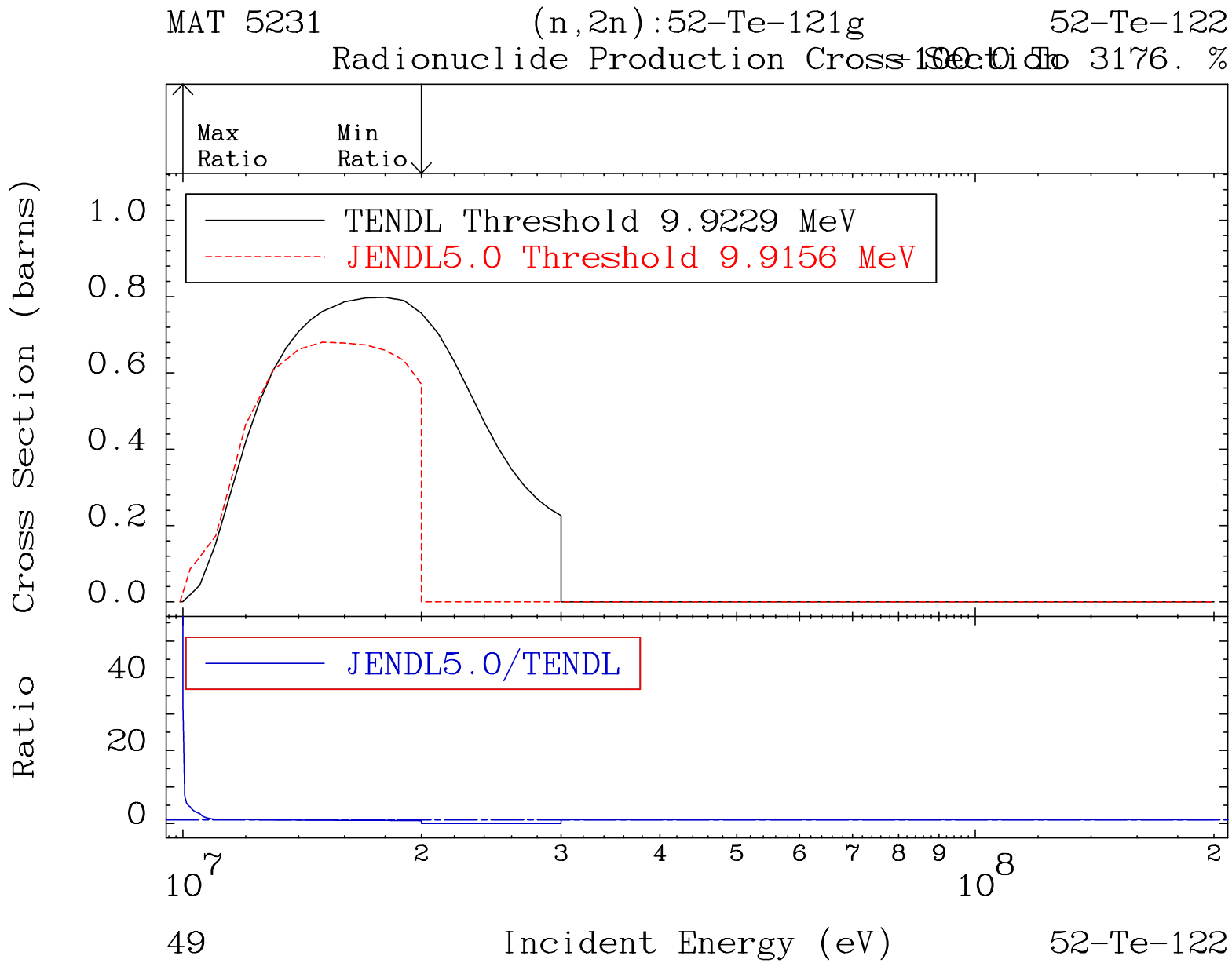

MAT 5231 Total kinematic kerma (high limit) 52-Te-122
Cross Section -99.80 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
52-Te-122

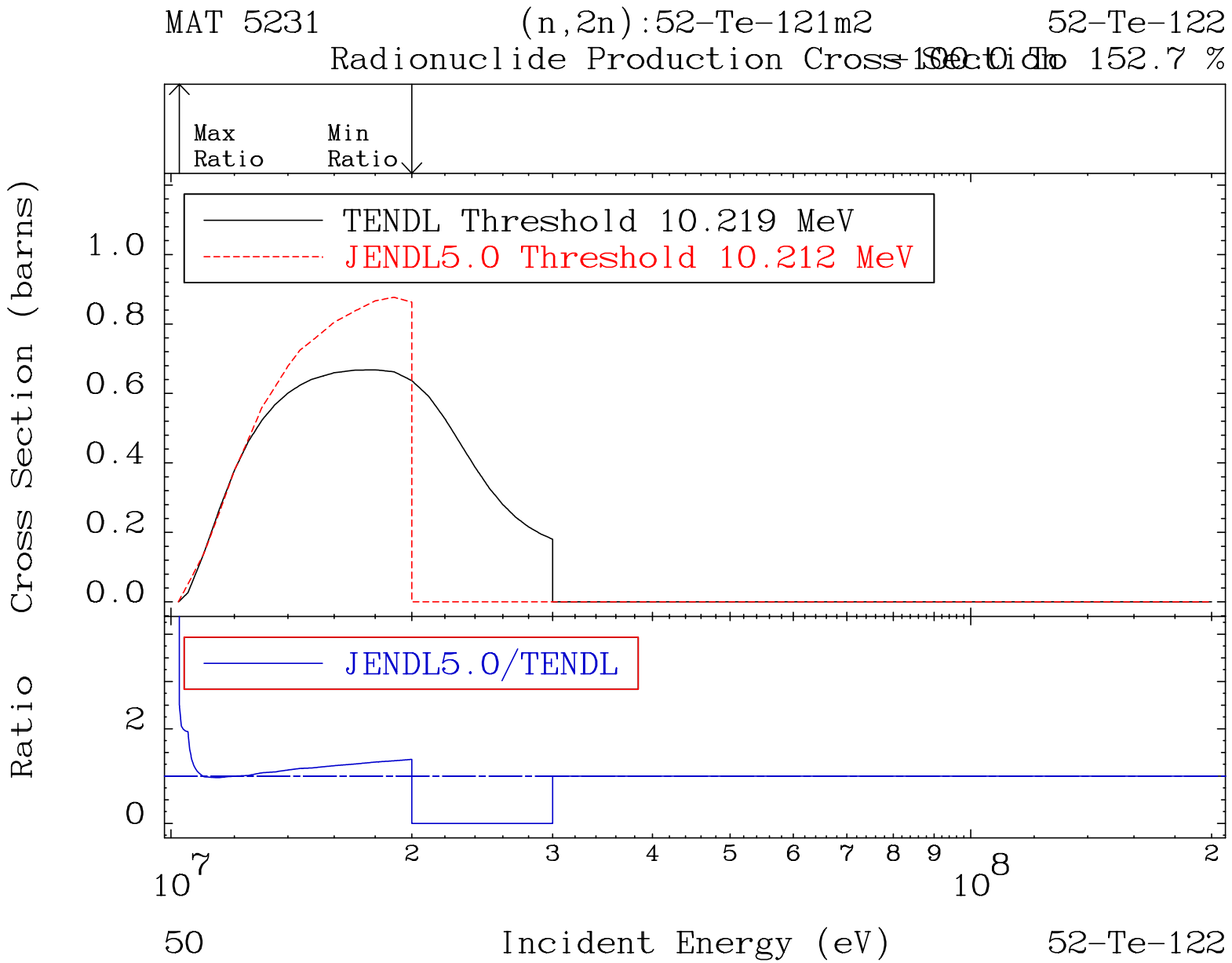

MAT 5231
Dpa total (eV-barns)
52-Te-122
Cross Section
-99.82 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
52-Te-122

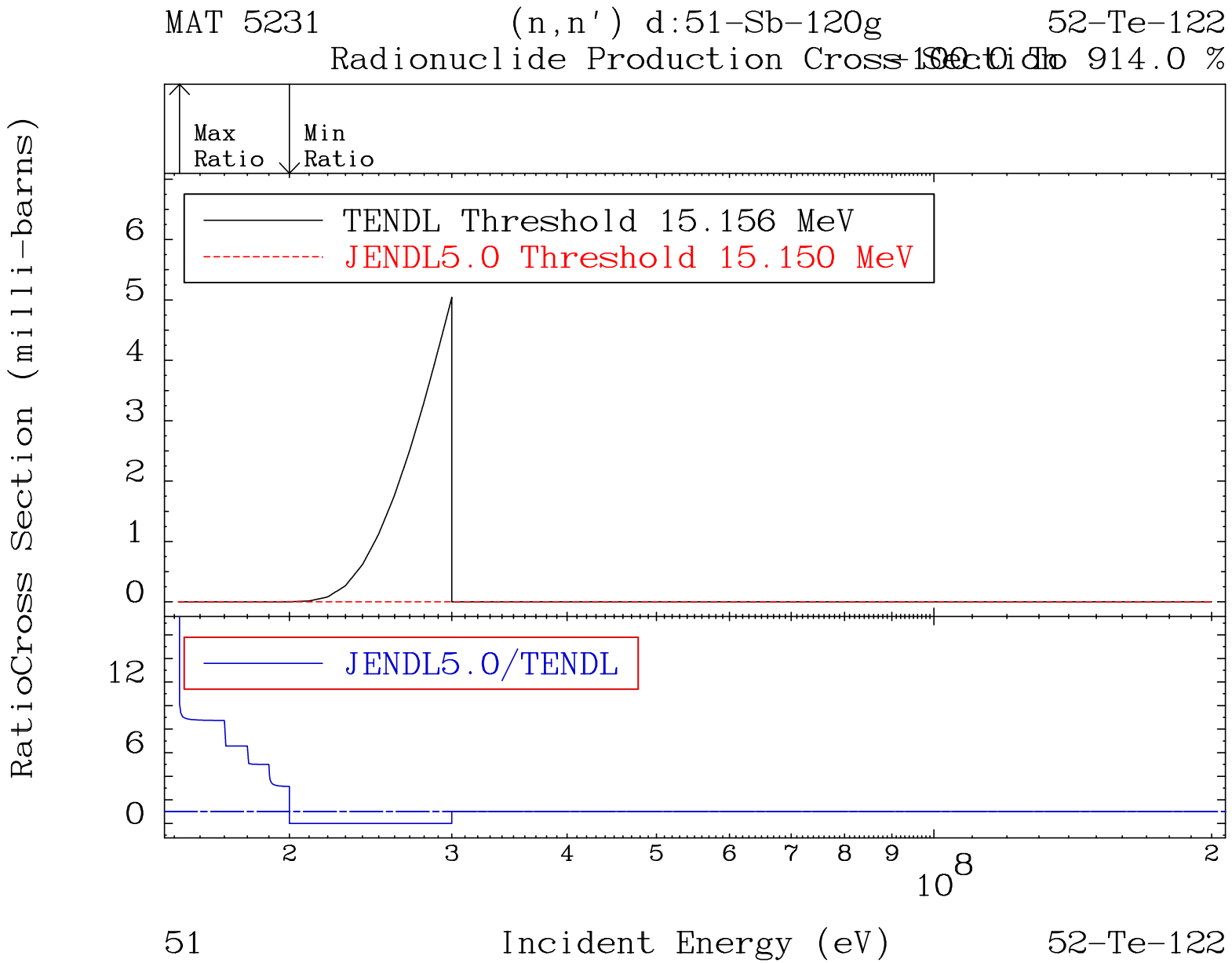

MAT 5231
Dpa elastic (mt2)
Cross Section
52-Te-122
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 740.37 eV
JENDL5.0 Threshold 700.17 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
52-Te-122

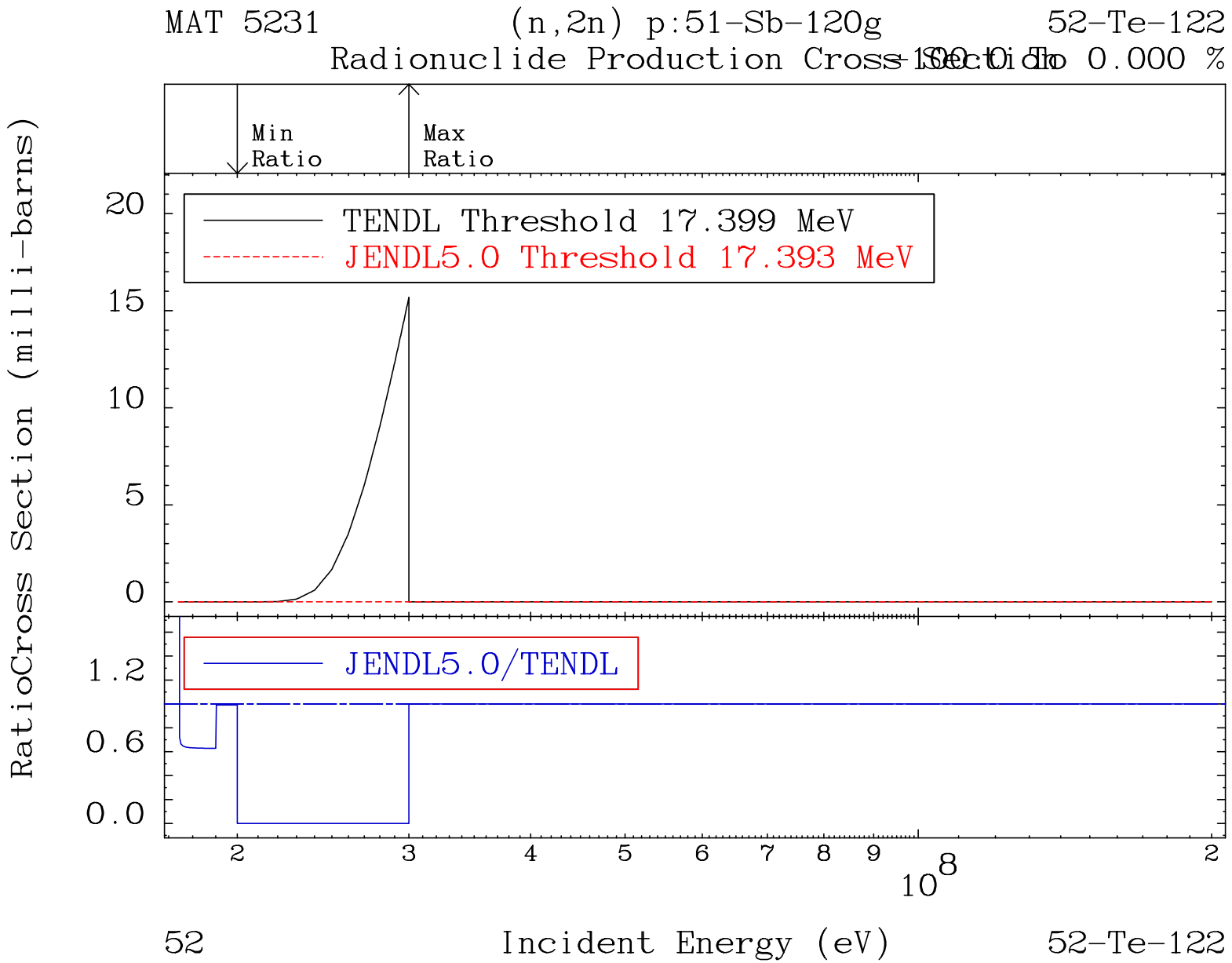

MAT 5231
Dpa inelastic (mt51-91)
52-Te-122
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 568.76 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
52-Te-122

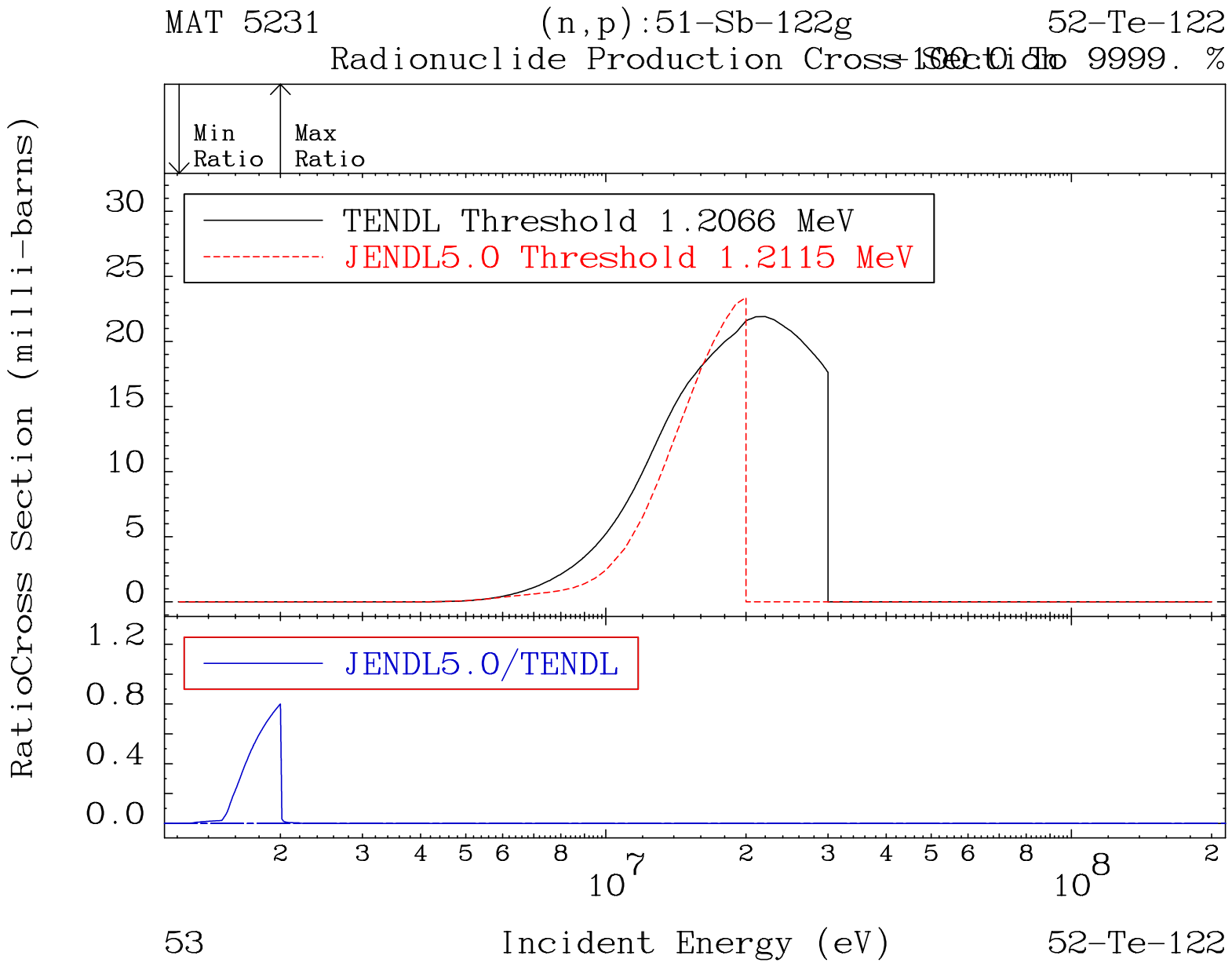

MAT 5231 Dpa disappearance (mt102 -120) 52-Te-122
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
52-Te-122

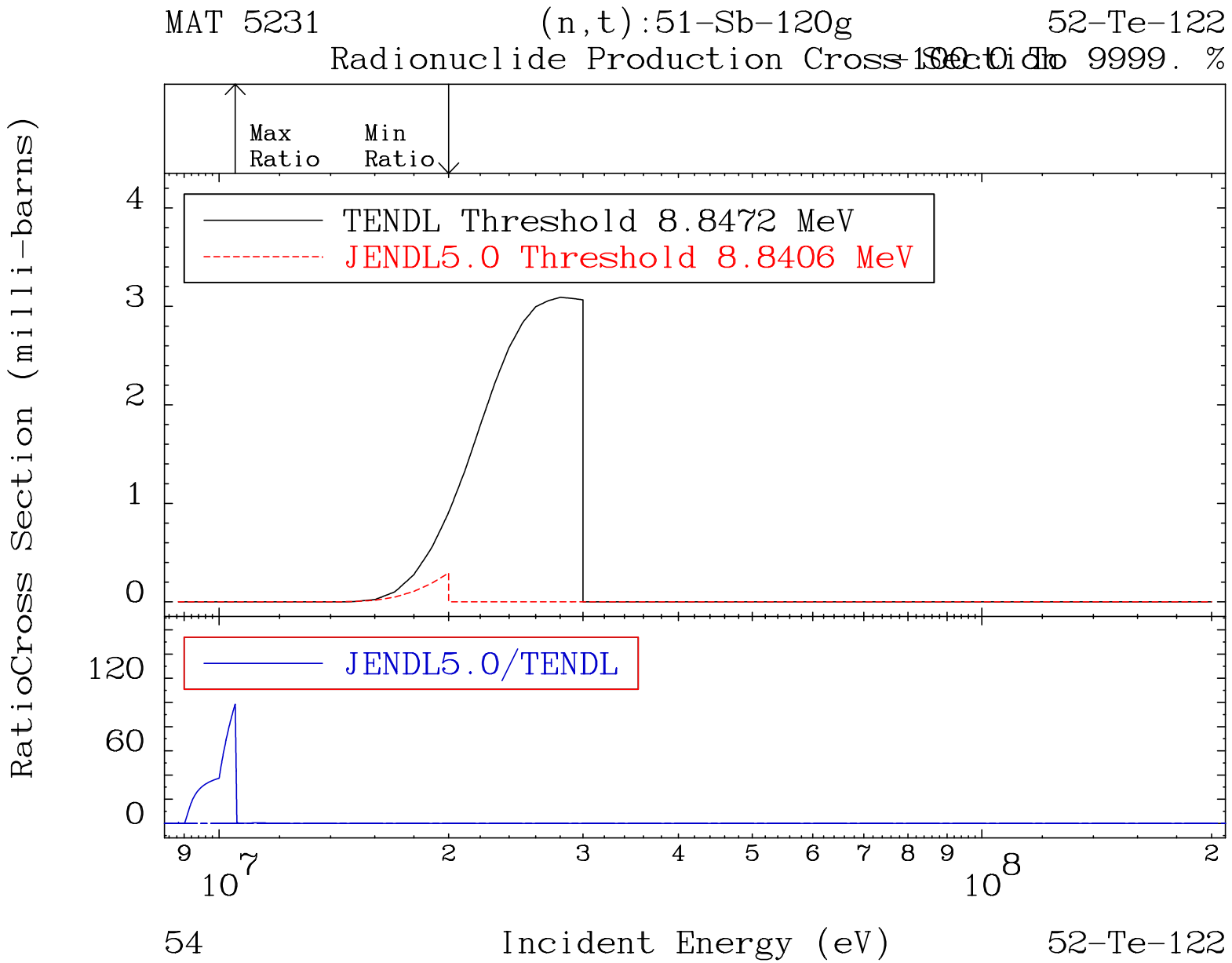

MAT 5231
(n,2n):52-Te-121g
52-Te-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.9229 MeV
JENDL5.0 Threshold 9.9156 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
52-Te-122

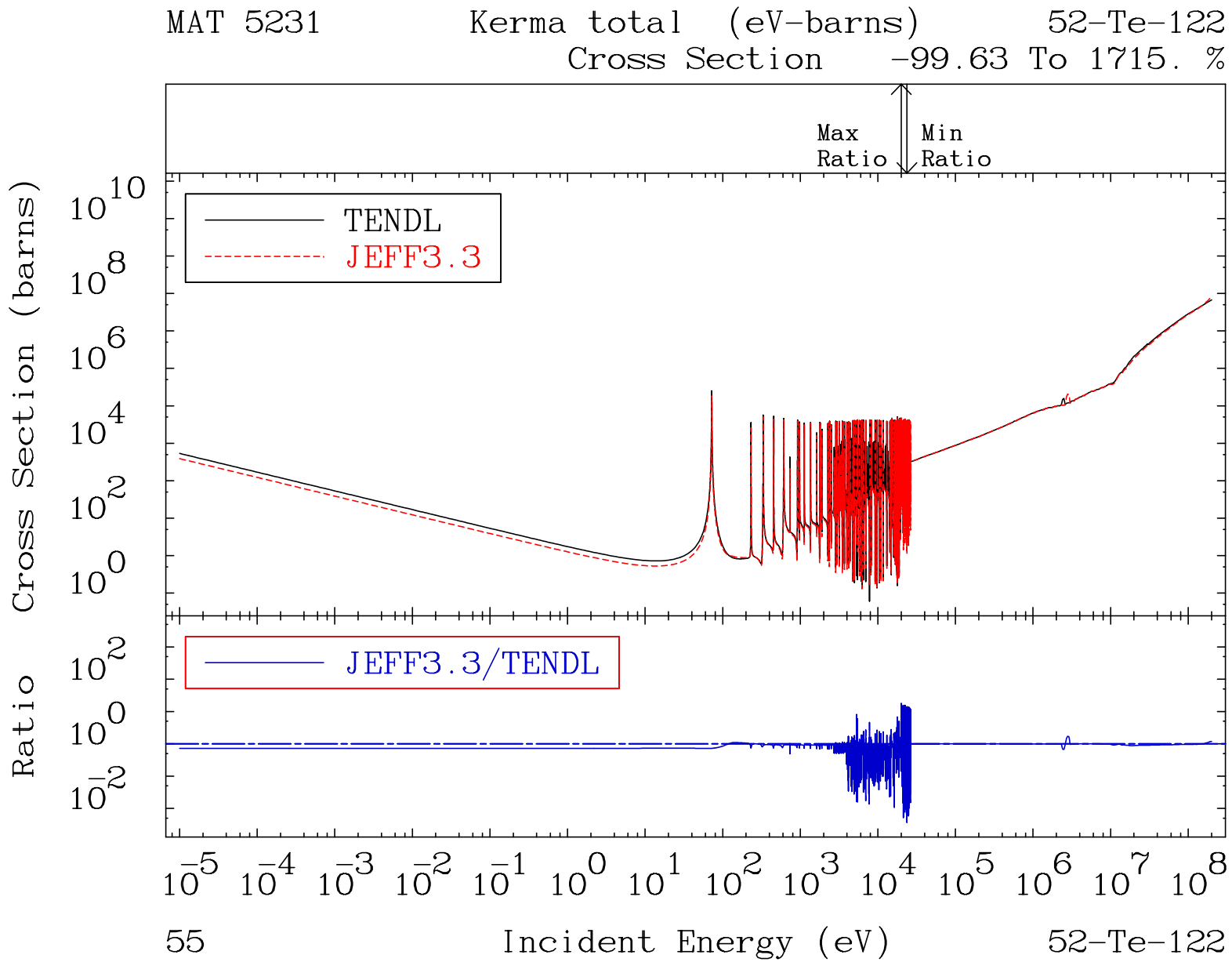

MAT 5231
(n,2n):52-Te-121m2
52-Te-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.219 MeV
JENDL5.0 Threshold 10.212 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52-Te-122

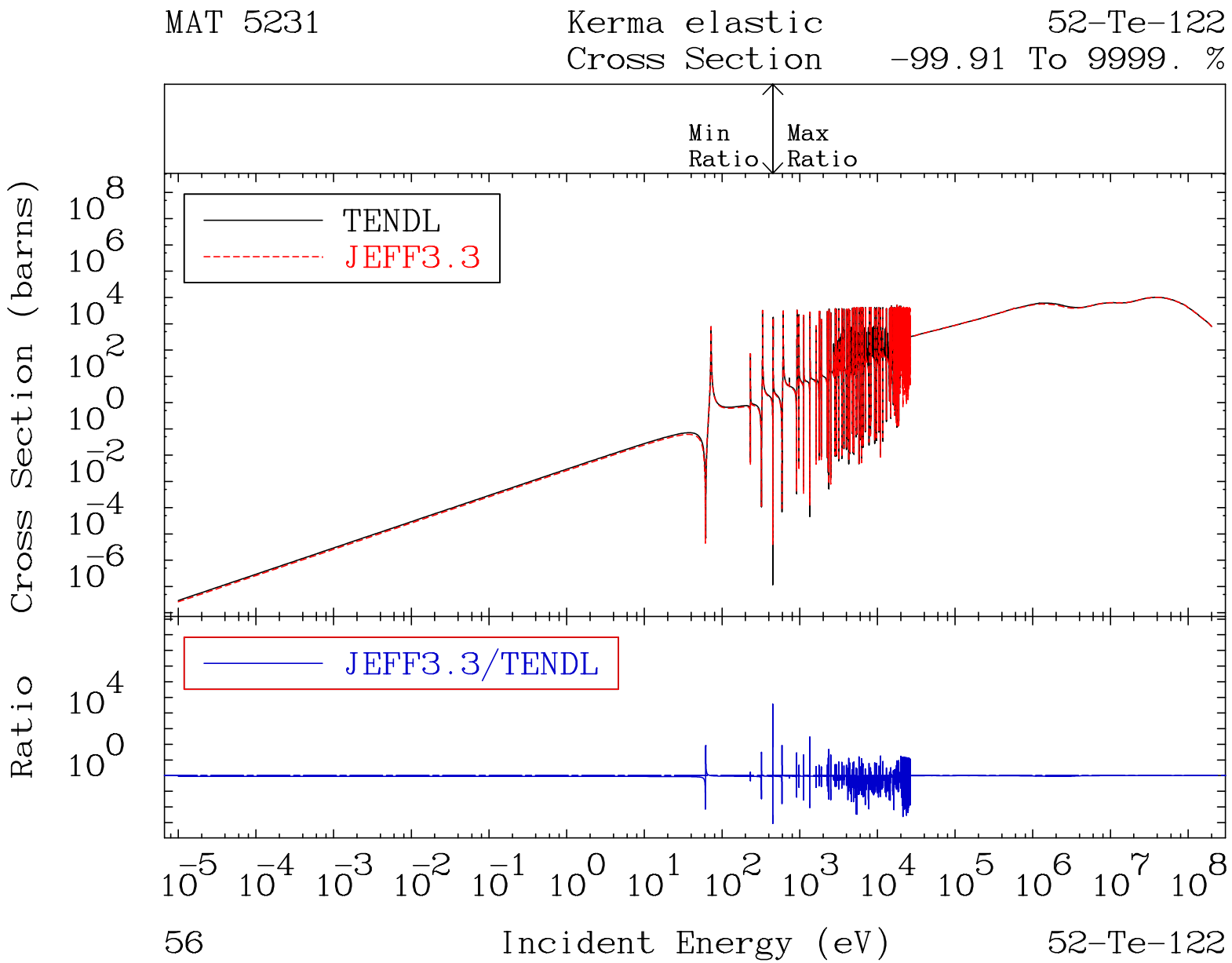

MAT 5231
(n,n') d:51-Sb-120g
52-Te-122
Radionuclide Production Cross Section To 914.0 %
Max Ratio
Min Ratio
TENDL Threshold 15.156 MeV
JENDL5.0 Threshold 15.150 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
51
52-Te-122

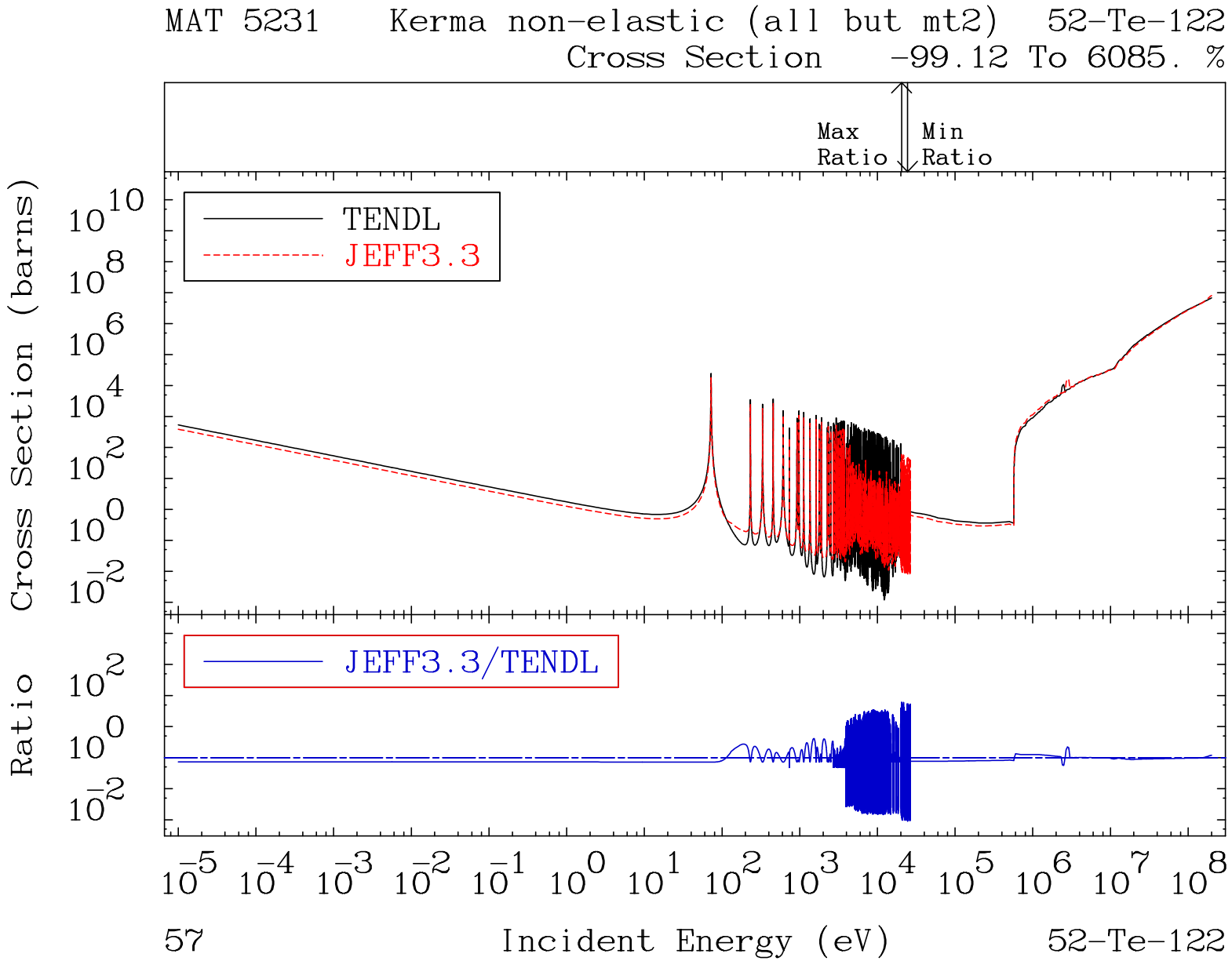

MAT 5231
(n,2n) p:51-Sb-120g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 17.399 MeV
JENDL5.0 Threshold 17.393 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
52
52-Te-122

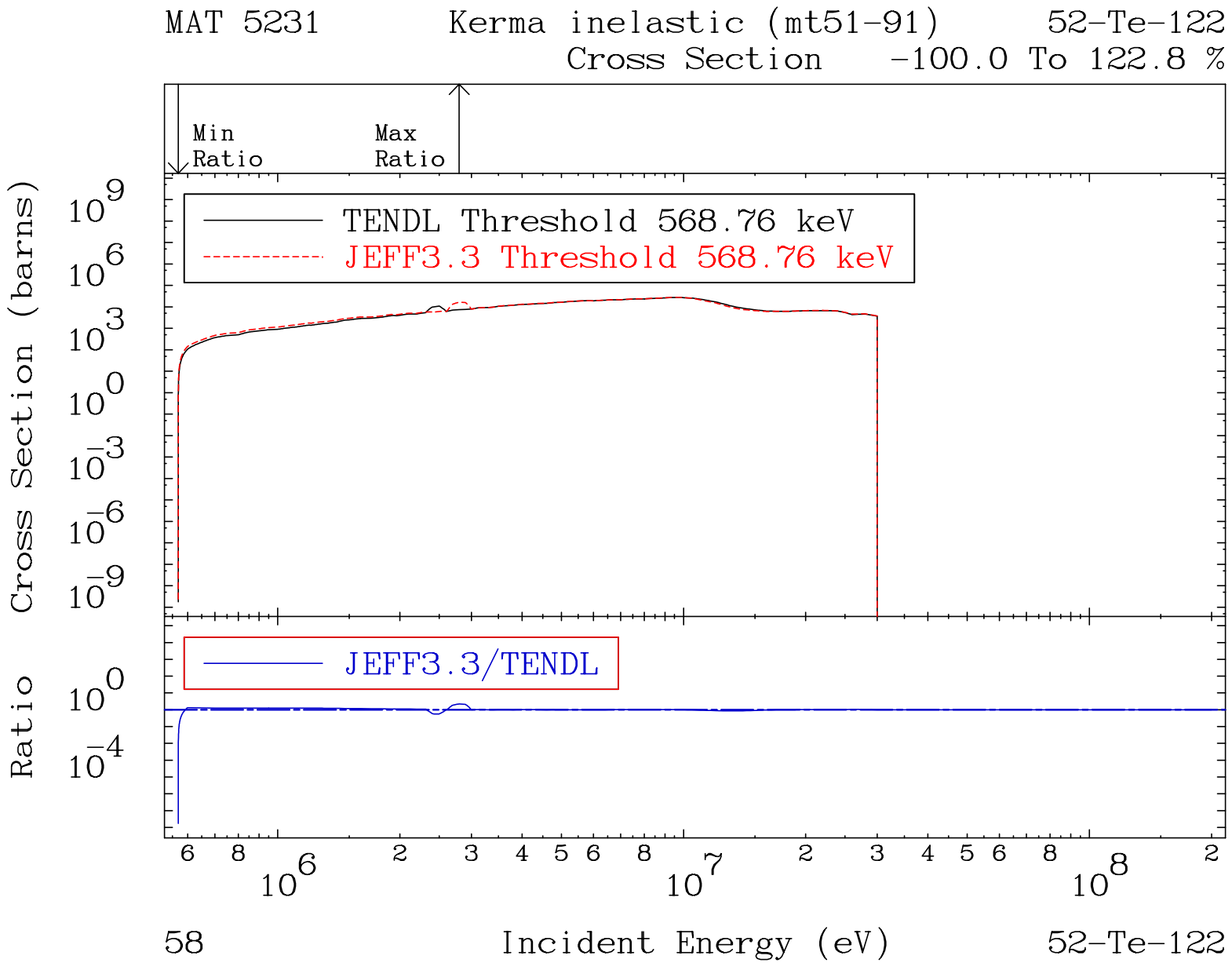

MAT 5231
(n,p):51-Sb-122g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 1.2066 MeV
JENDL5.0 Threshold 1.2115 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
53
52-Te-122

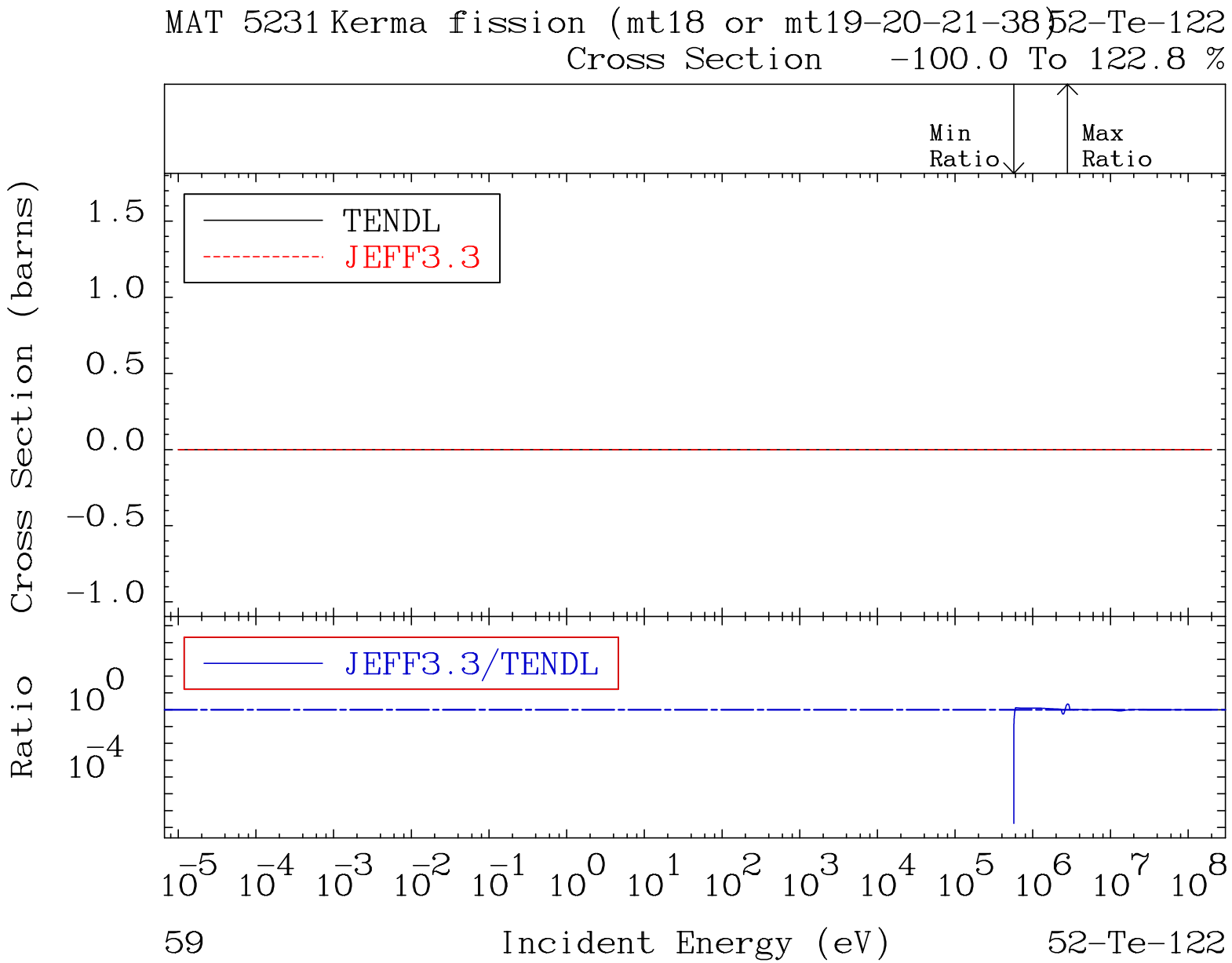

MAT 5231
(n,t):51-Sb-120g
52-Te-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 8.8472 MeV
JENDL5.0 Threshold 8.8406 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
52-Te-122

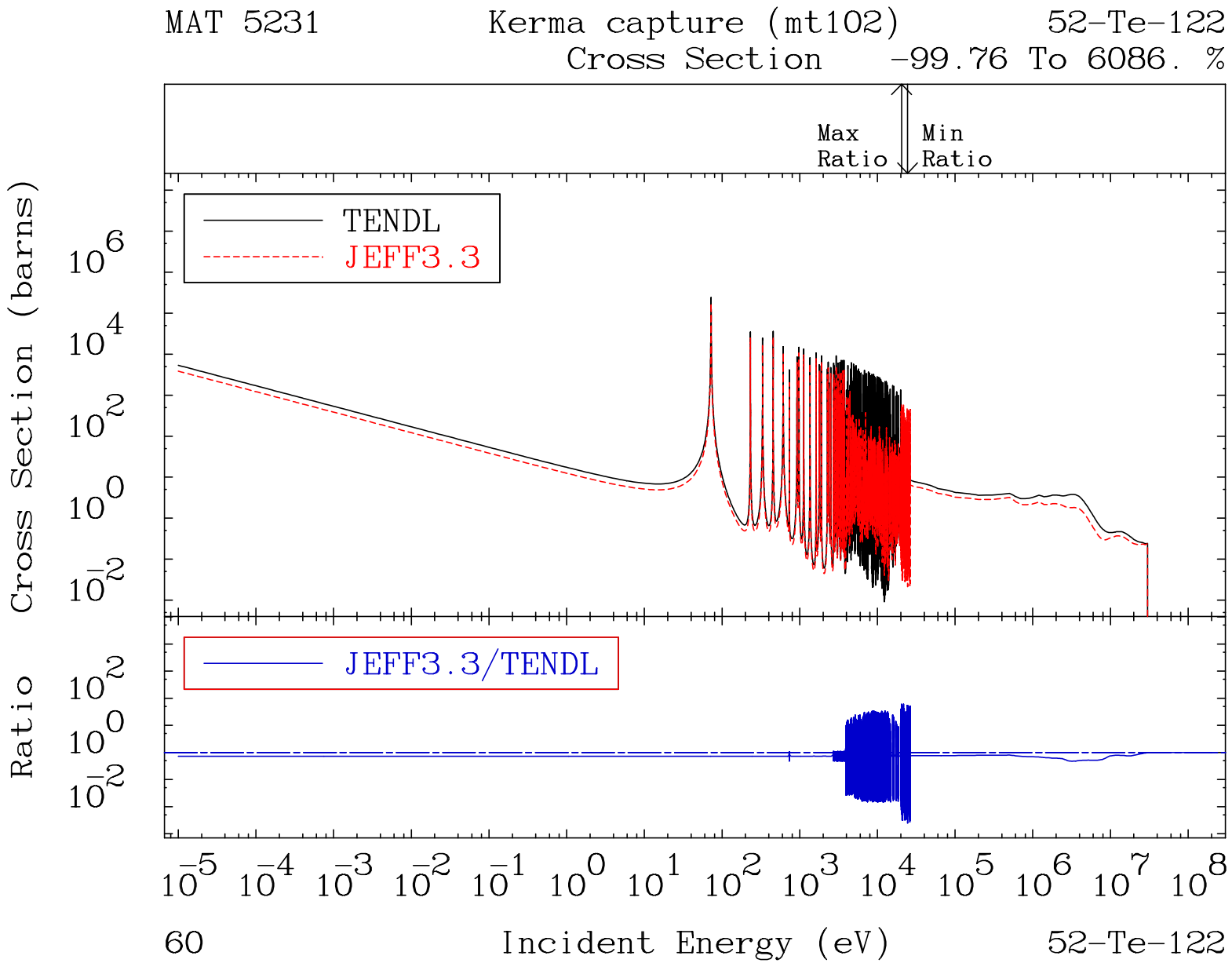

MAT 5231
Kerma total (eV-barns)
52-Te-122
Cross Section -99.63 To 1715. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
52-Te-122

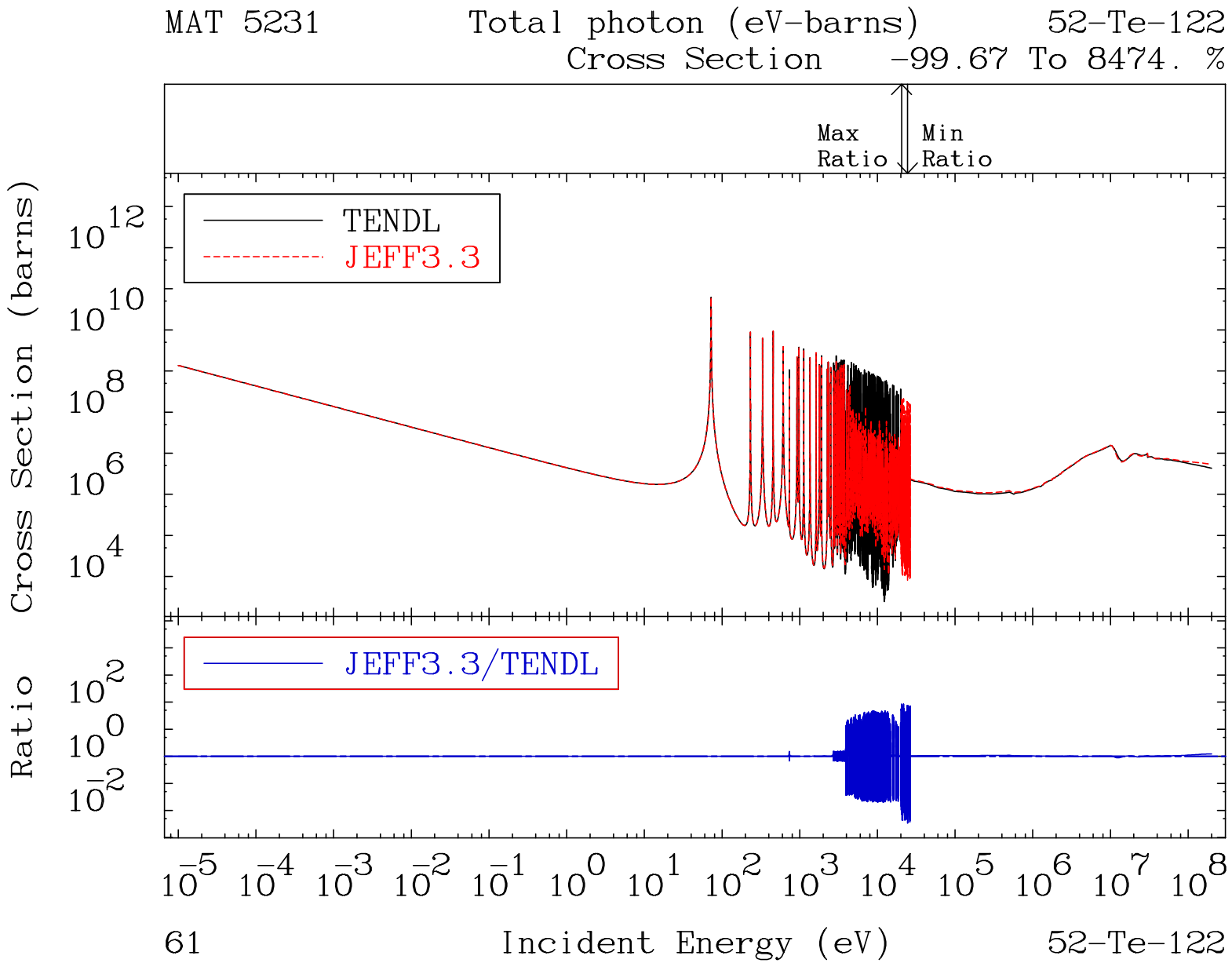

MAT 5231
Kerma elastic
Cross Section
52-Te-122
-99.91 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
52-Te-122

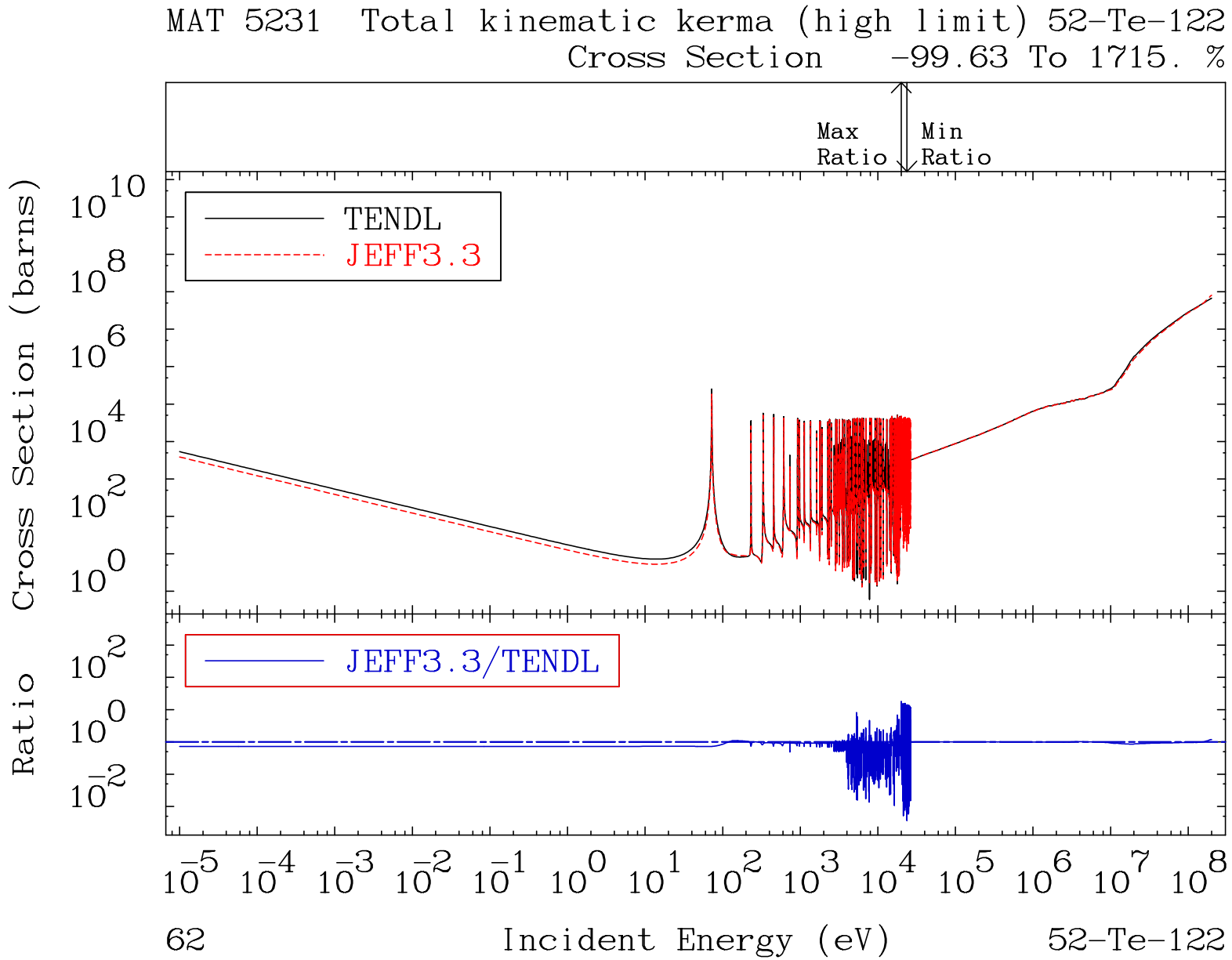

MAT 5231 Kerma non-elastic (all but mt2) 52-Te-122
Cross Section -99.12 To 6085. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
52-Te-122

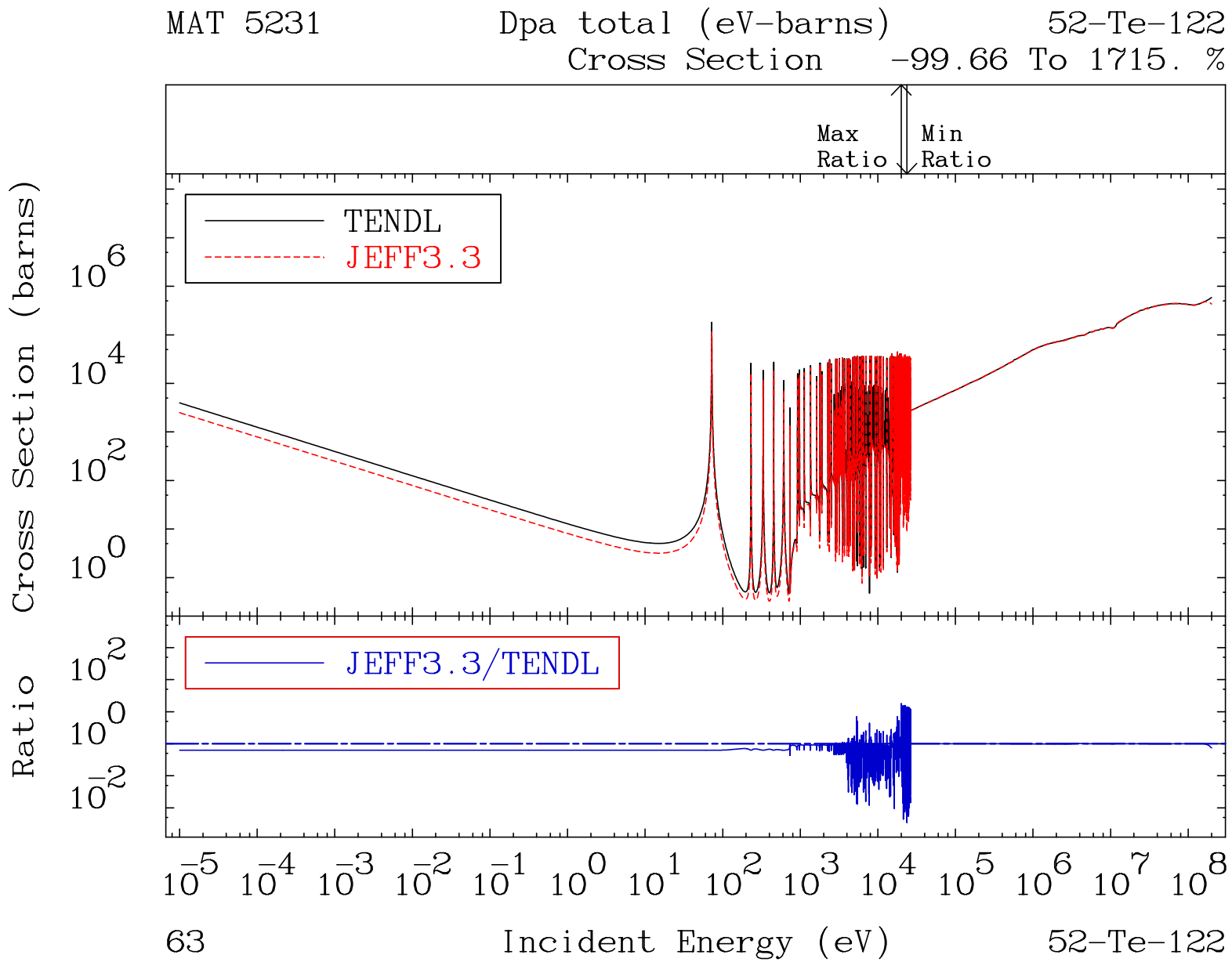

MAT 5231
Kerma inelastic (mt51-91)
52-Te-122
Cross Section -100.0 To 122.8 %
Min Ratio
Max Ratio
TENDL Threshold 568.76 keV
JEFF3.3 Threshold 568.76 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
52-Te-122

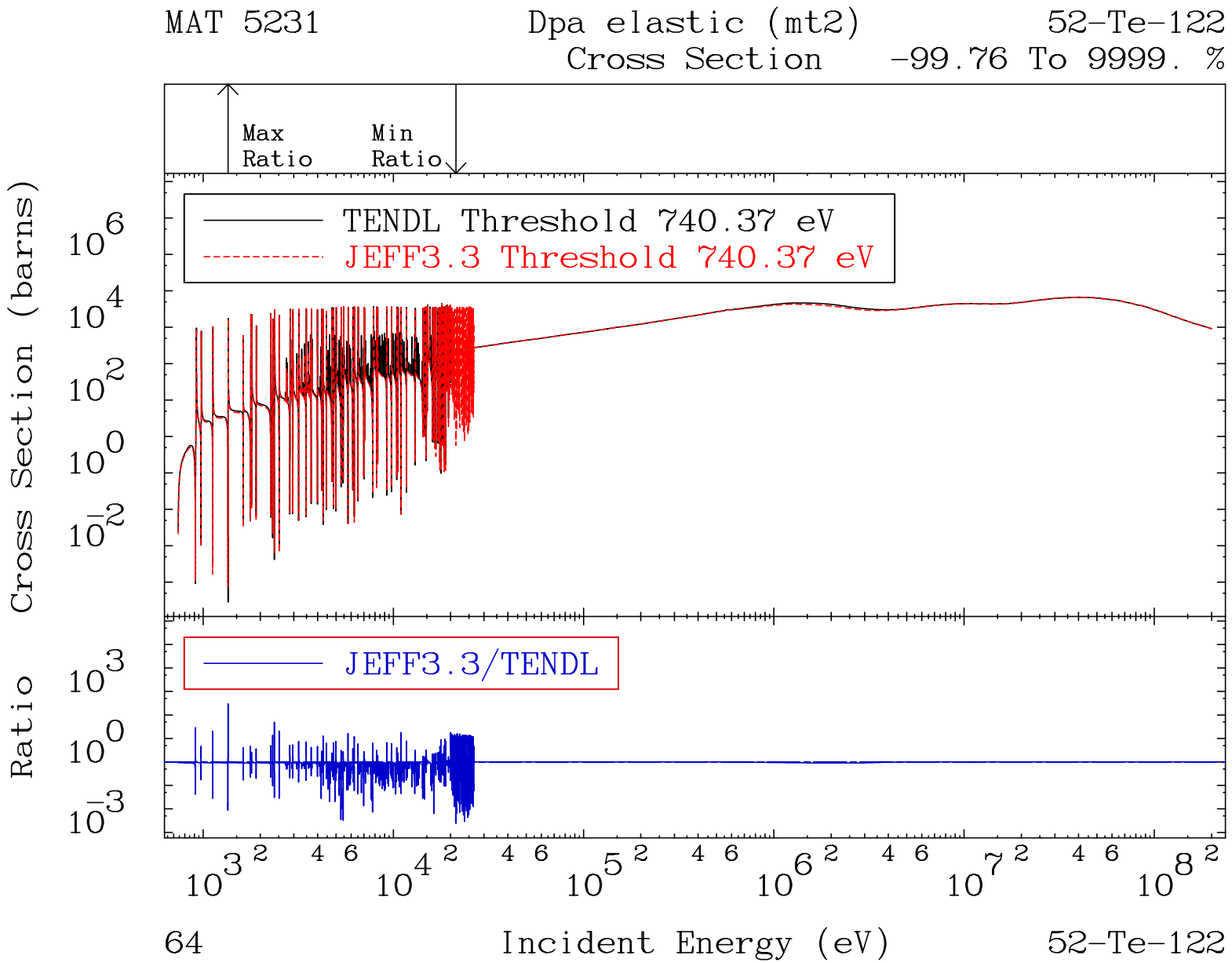

MAT 5231 Kerma fission (mt18 or mt19-20-21-38) 52-Te-122
Cross Section -100.0 To 122.8 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
59
Incident Energy (eV)
52-Te-122

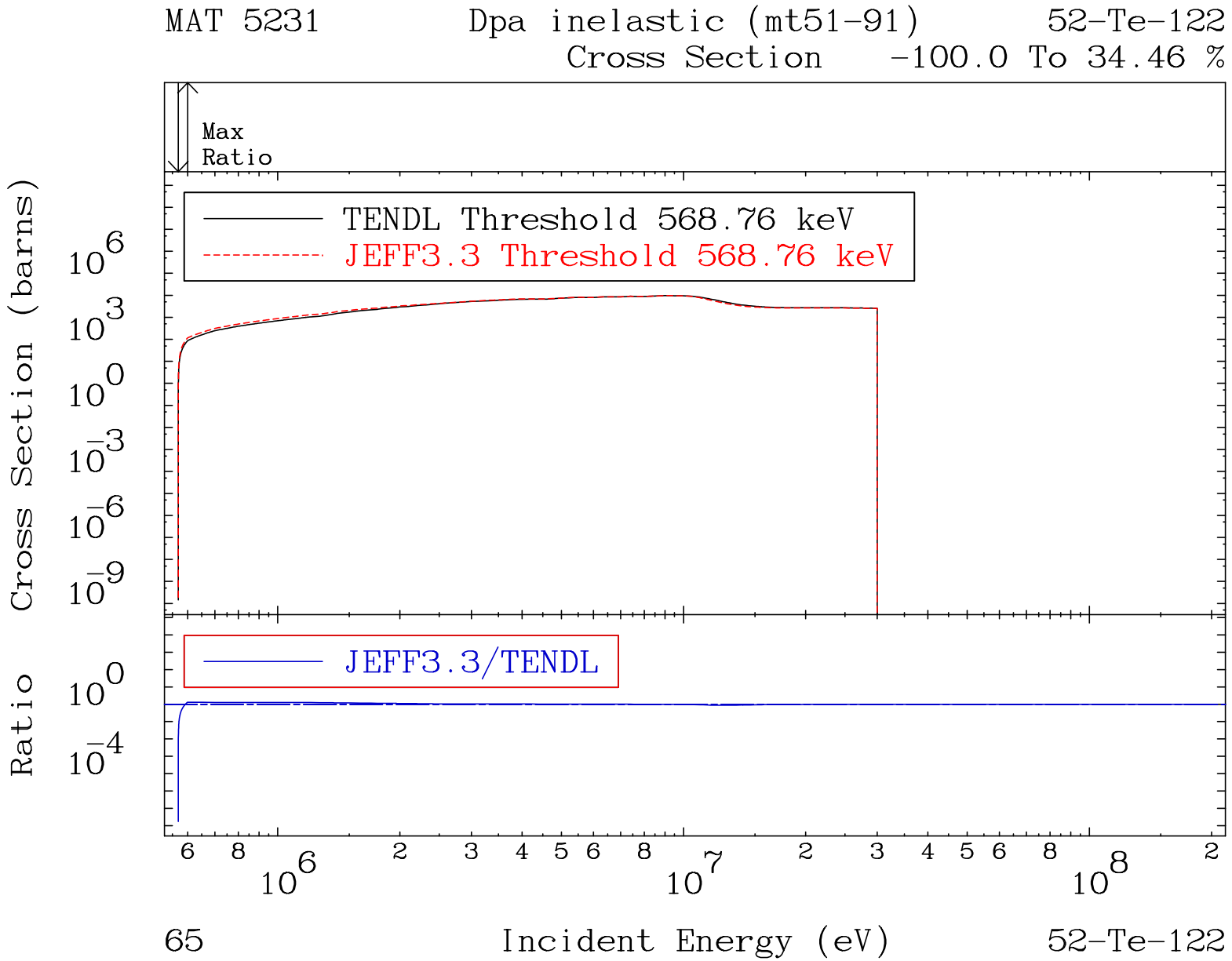

MAT 5231
Kerma capture (mt102)
52-Te-122
Cross Section
-99.76 To 6086. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
52-Te-122

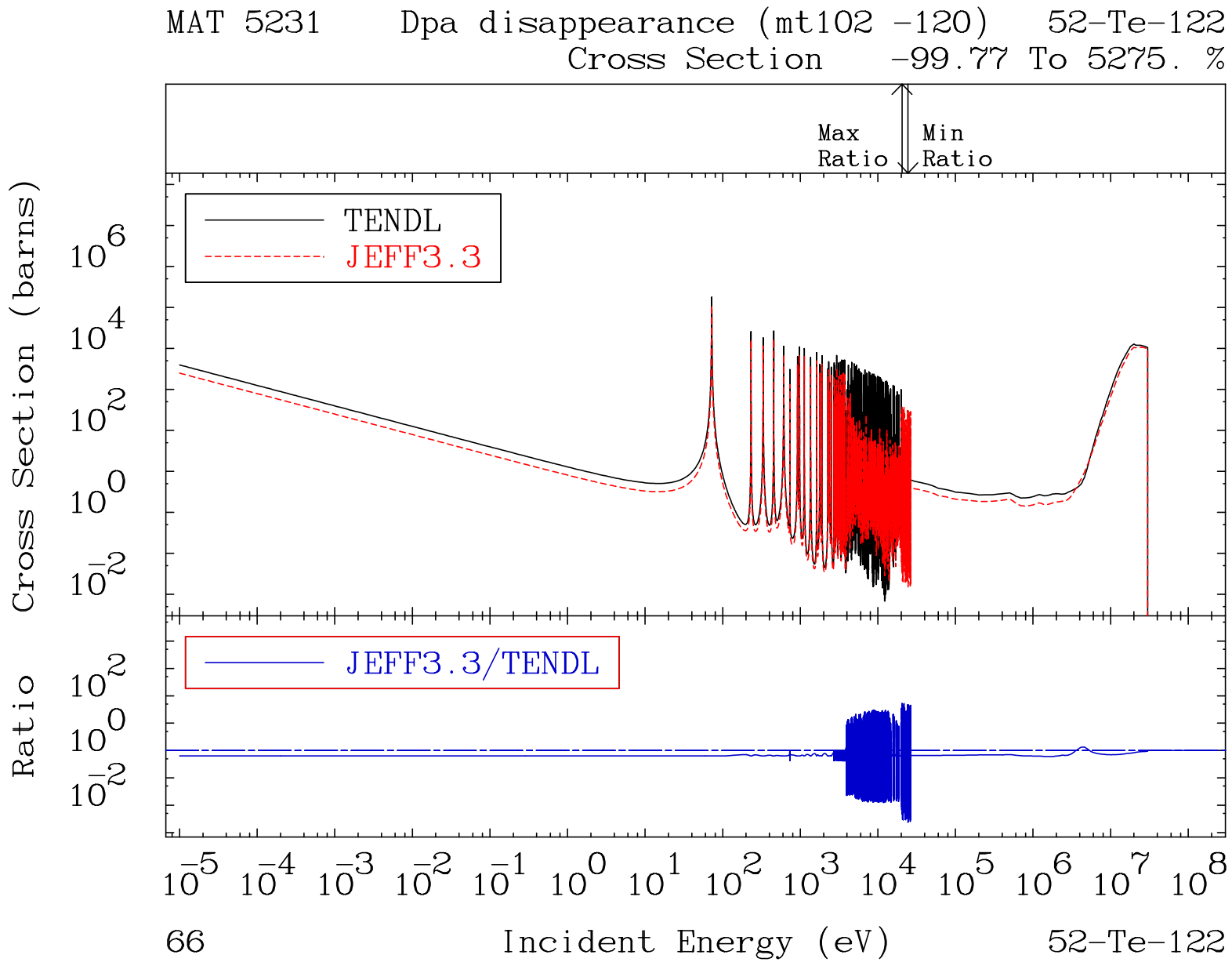

MAT 5231
Total photon (eV-barns)
52-Te-122
Cross Section -99.67 To 8474. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
52-Te-122

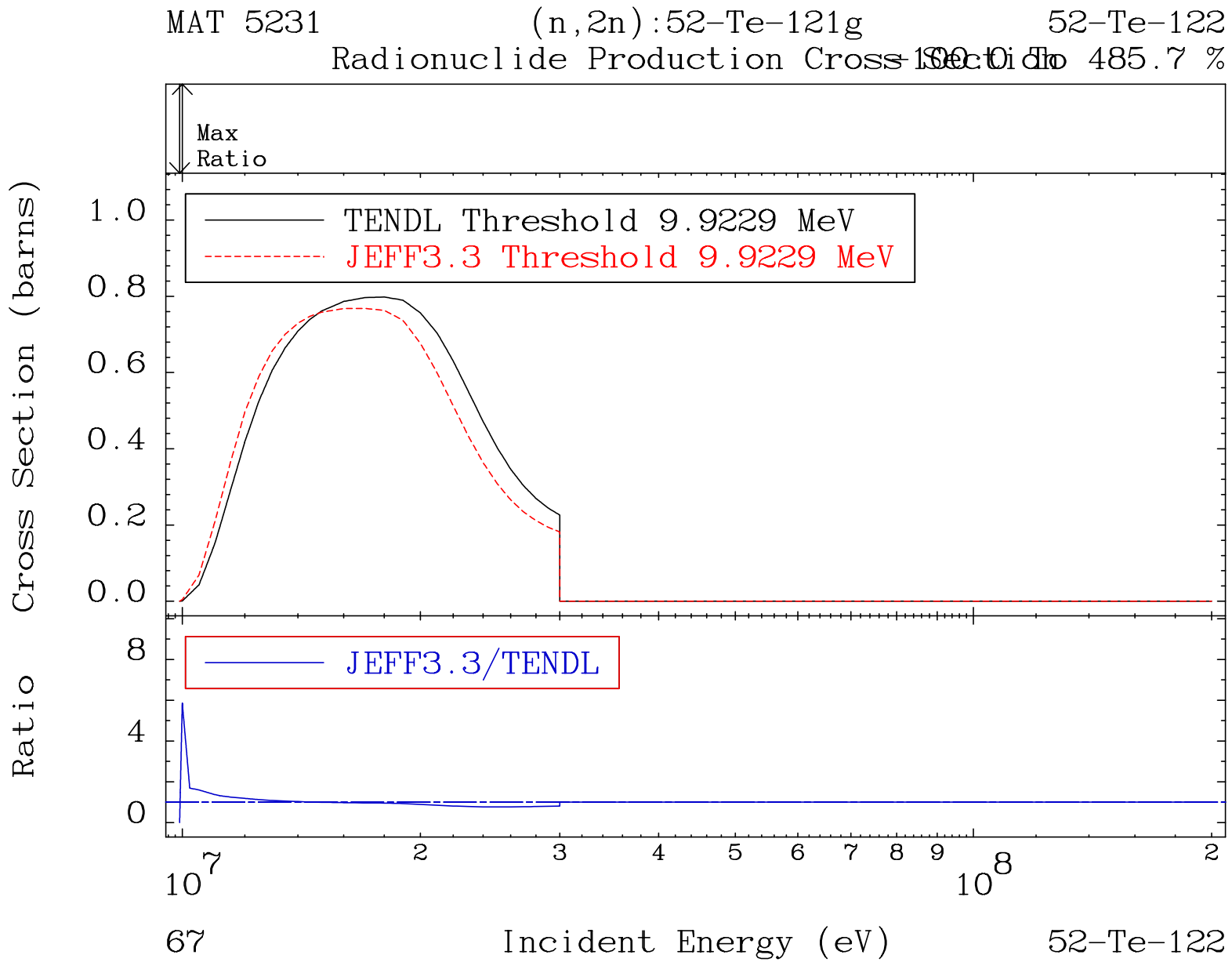

MAT 5231 Total kinematic kerma (high limit) 52-Te-122
Cross Section -99.63 To 1715. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
52-Te-122

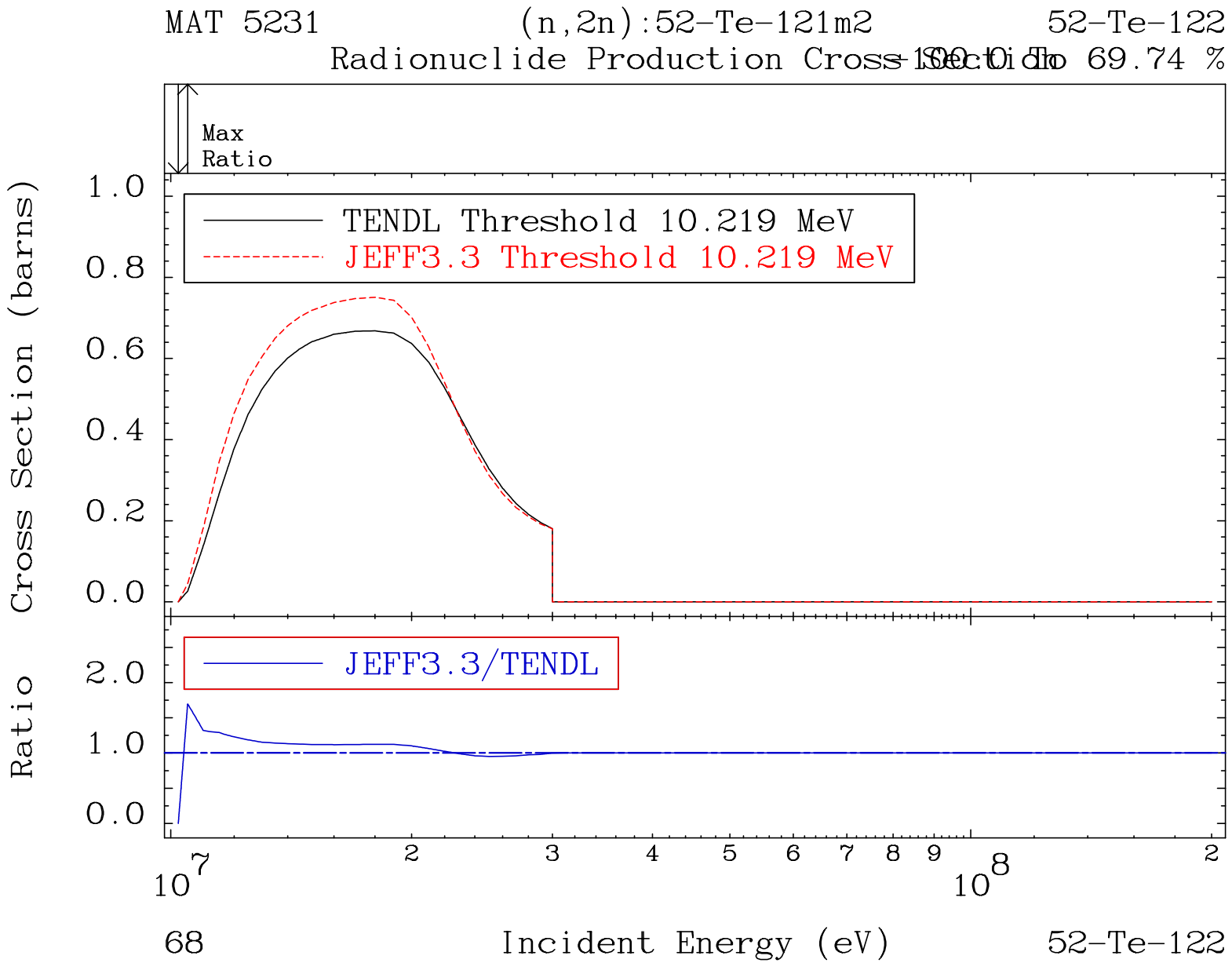

MAT 5231
Dpa total (eV-barns)
52-Te-122
Cross Section
-99.66 To 1715. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
52-Te-122

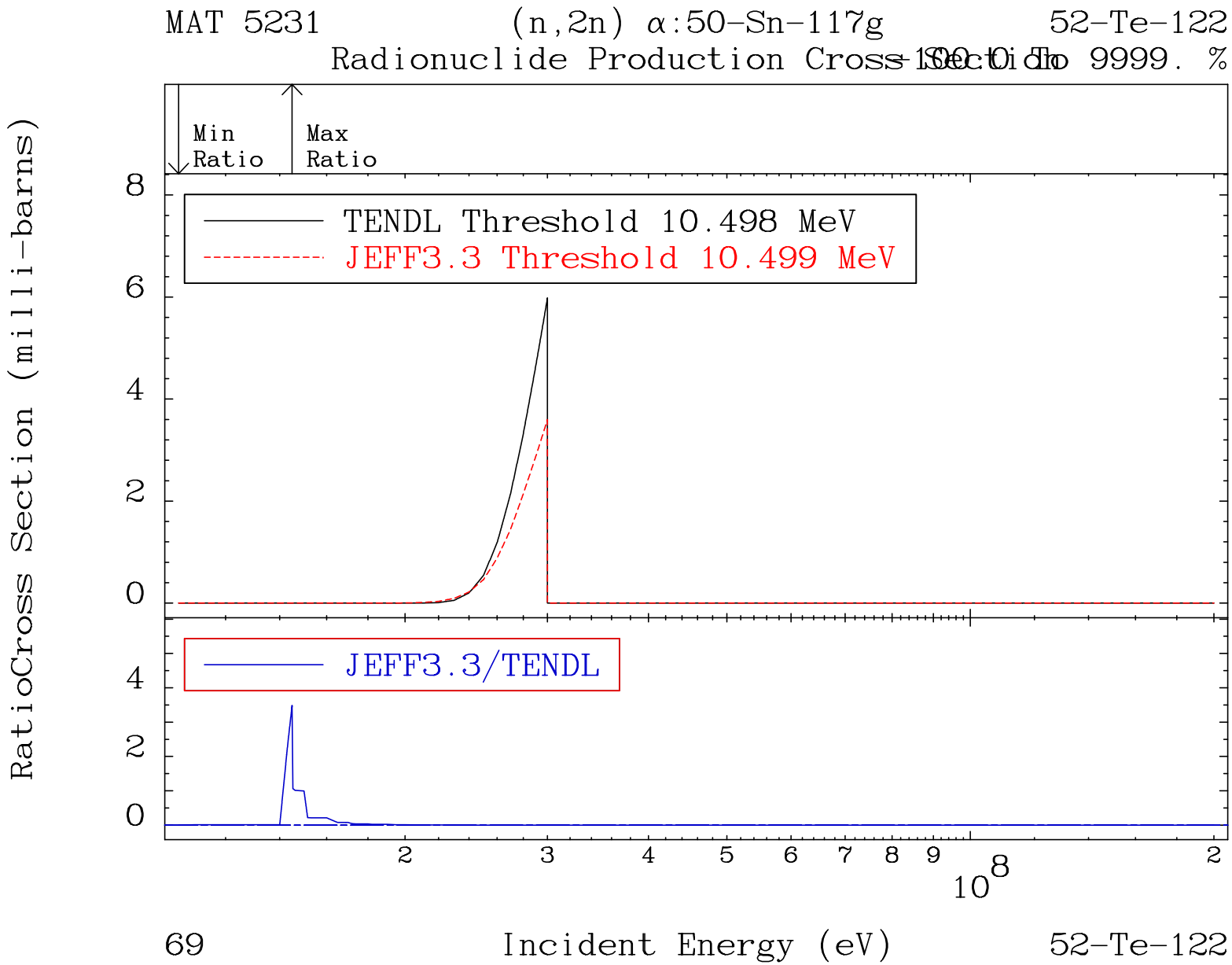

MAT 5231
Dpa elastic (mt2)
Cross Section
52-Te-122
-99.76 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 740.37 eV
JEFF3.3 Threshold 740.37 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
52-Te-122

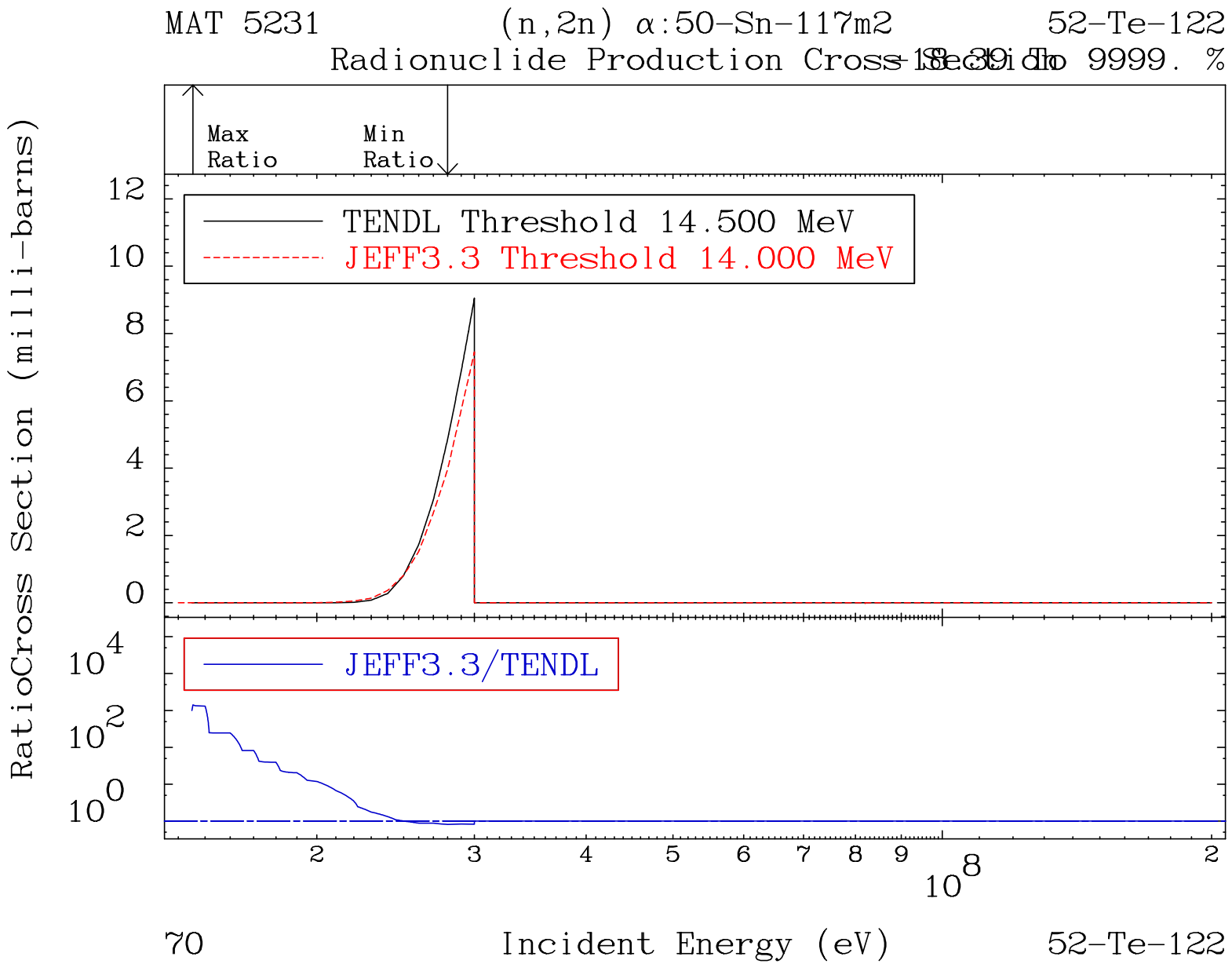

MAT 5231
Dpa inelastic (mt51-91)
52-Te-122
Cross Section
-100.0 To 34.46 %
Max
Ratio
TENDL Threshold 568.76 keV
JEFF3.3 Threshold 568.76 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
52-Te-122

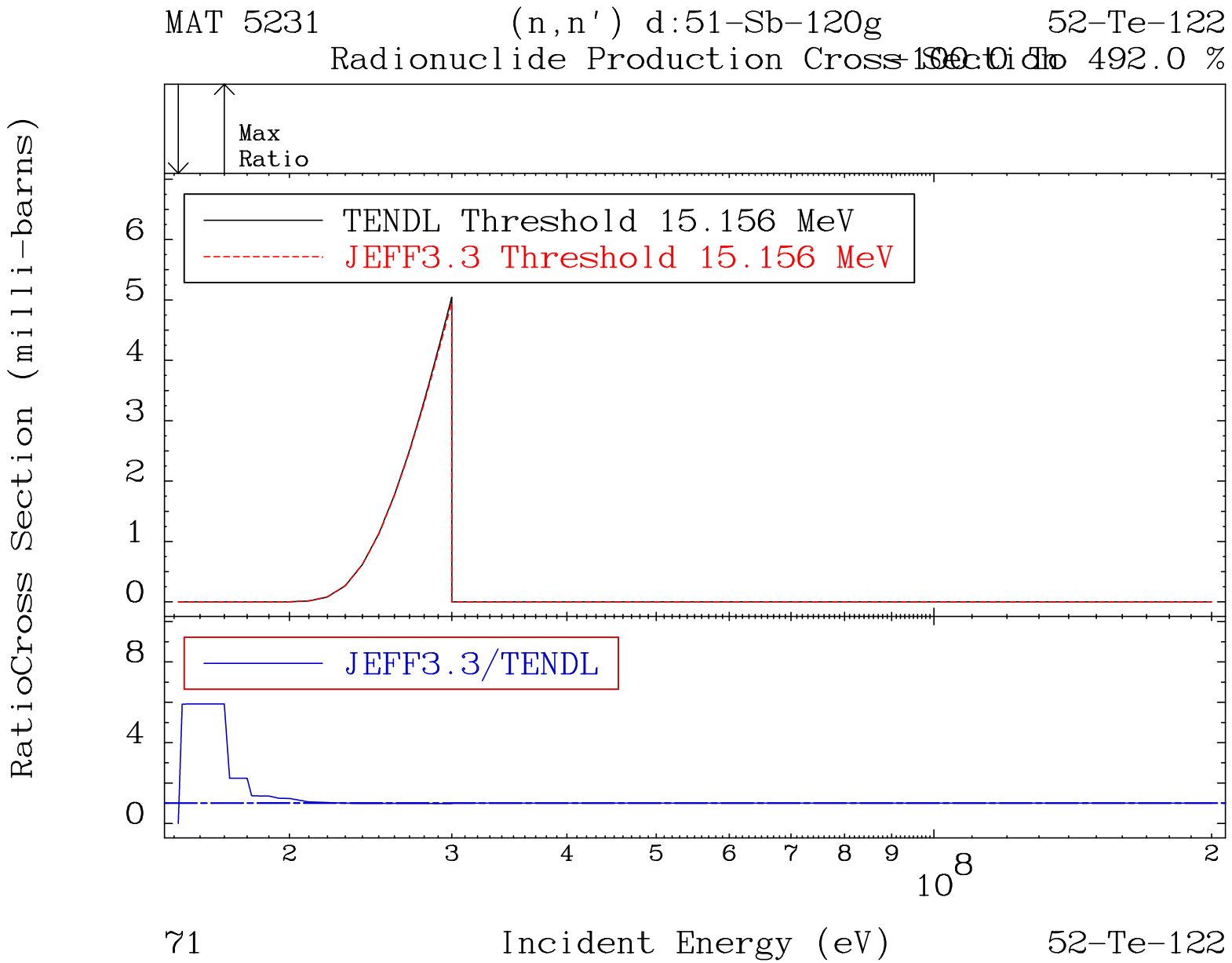

MAT 5231 Dpa disappearance (mt102 -120) 52-Te-122
Cross Section -99.77 To 5275. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
52-Te-122

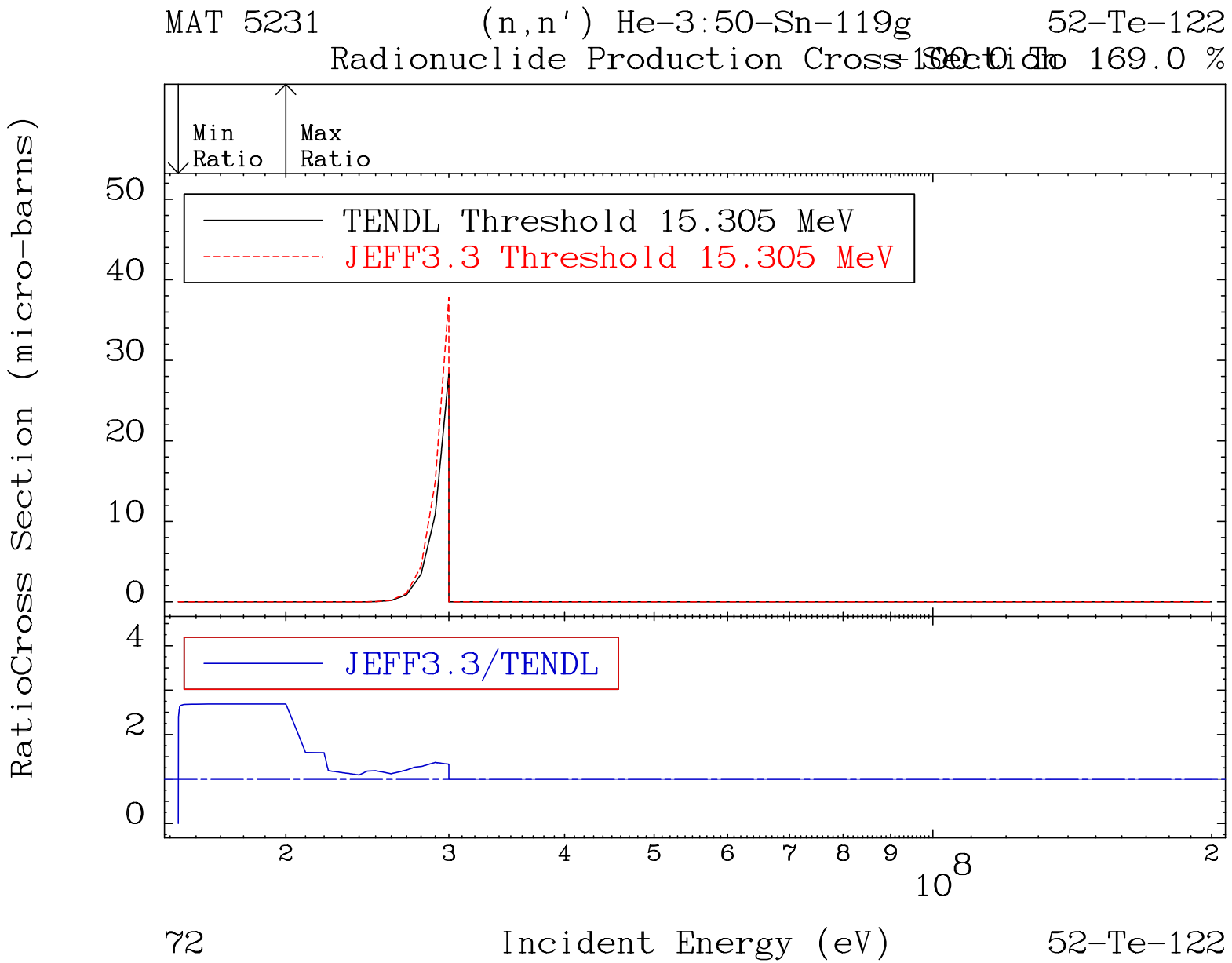

MAT 5231
(n,2n):52-Te-121g
52-Te-122
Radionuclide Production Cross Section To 485.7 %
Max
Ratio
TENDL Threshold 9.9229 MeV
JEFF3.3 Threshold 9.9229 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
52-Te-122

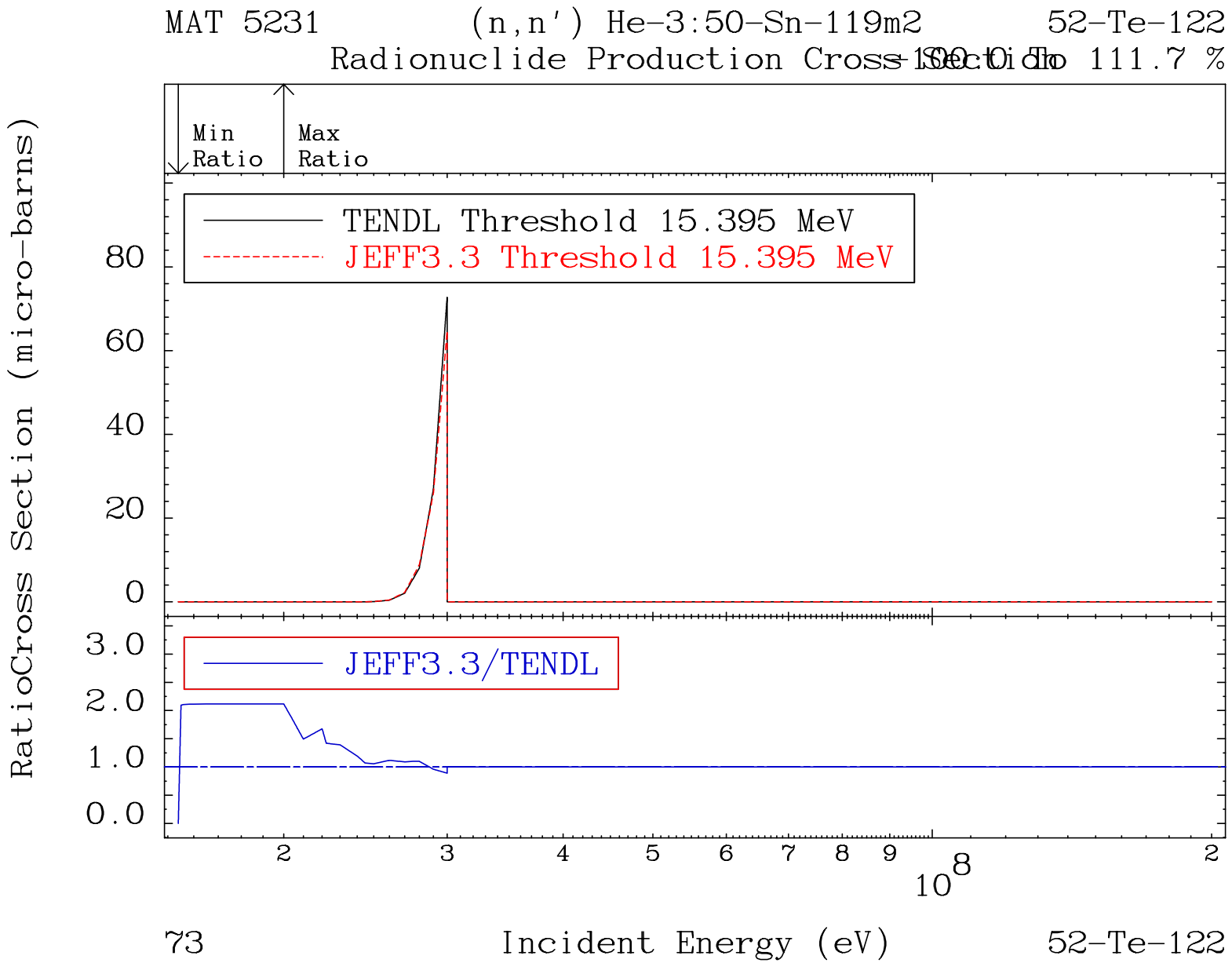

MAT 5231
(n,2n):52-Te-121m2
52-Te-122
Radionuclide Production Cross Section To 69.74 %
Max
Ratio
TENDL Threshold 10.219 MeV
JEFF3.3 Threshold 10.219 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
52-Te-122

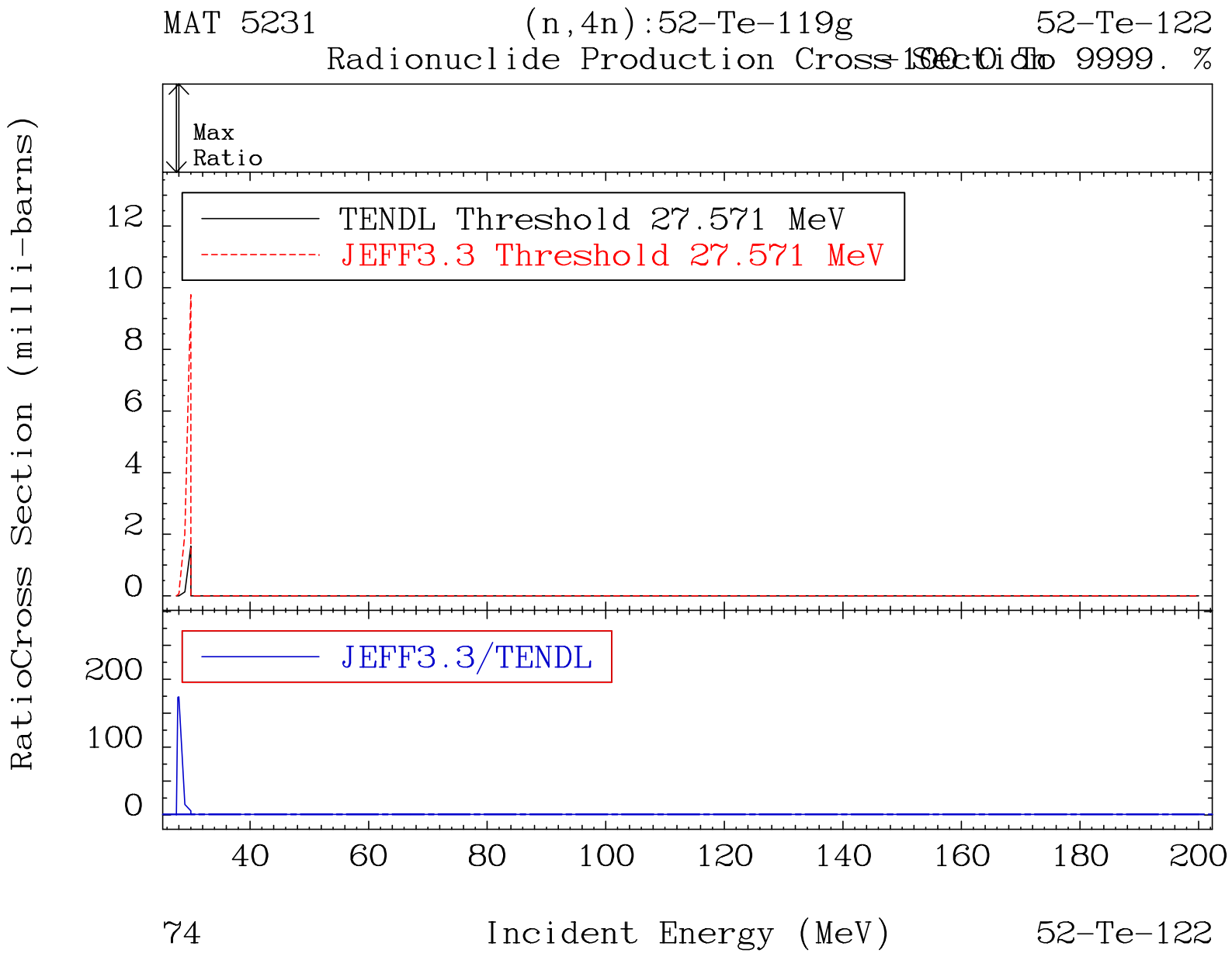

MAT 5231
(n,2n) α:50-Sn-117g
52-Te-122
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.498 MeV
JEFF3.3 Threshold 10.499 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
52-Te-122

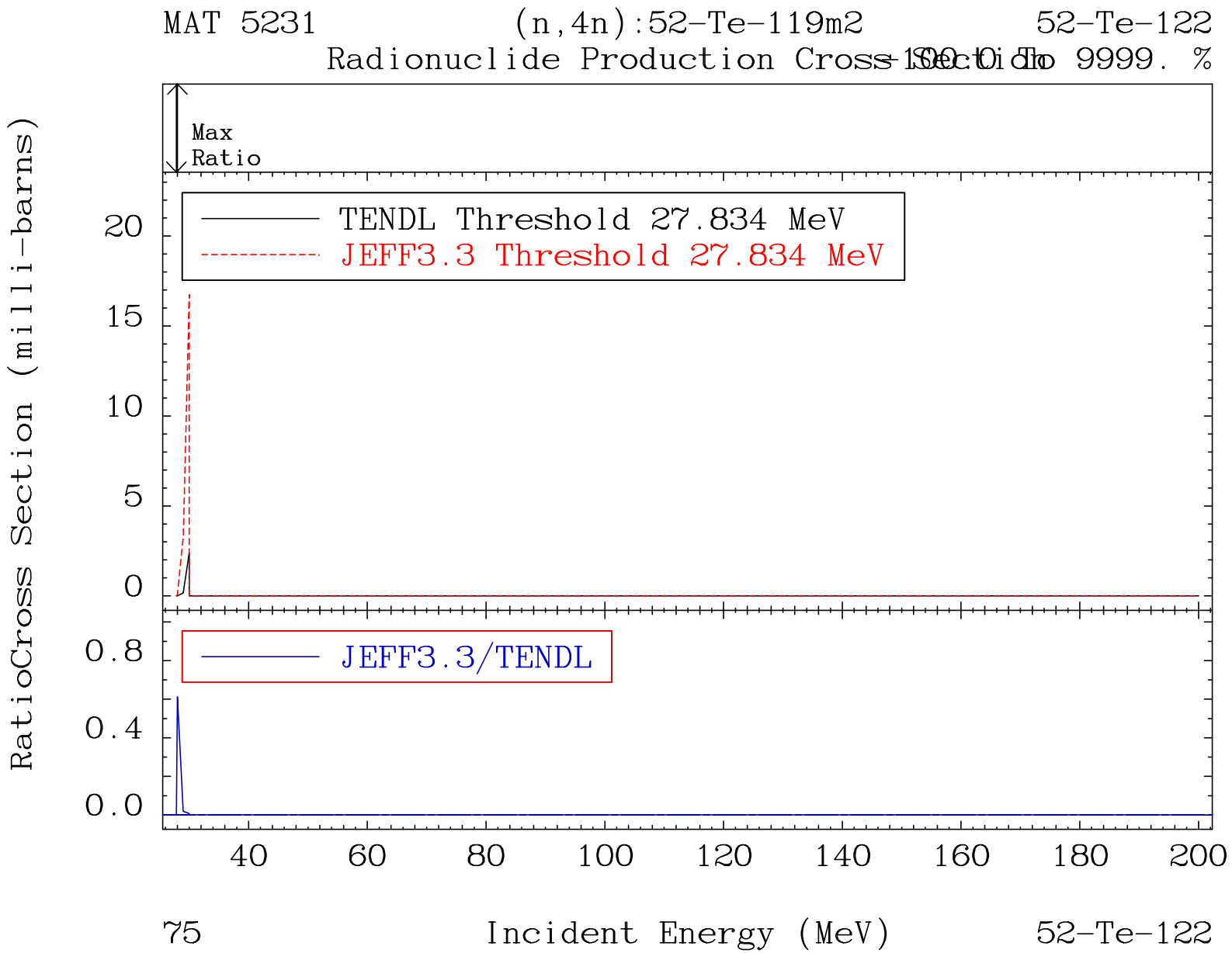

MAT 5231
(n,2n) α:50-Sn-117m2
52-Te-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 14.500 MeV
JEFF3.3 Threshold 14.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
52-Te-122

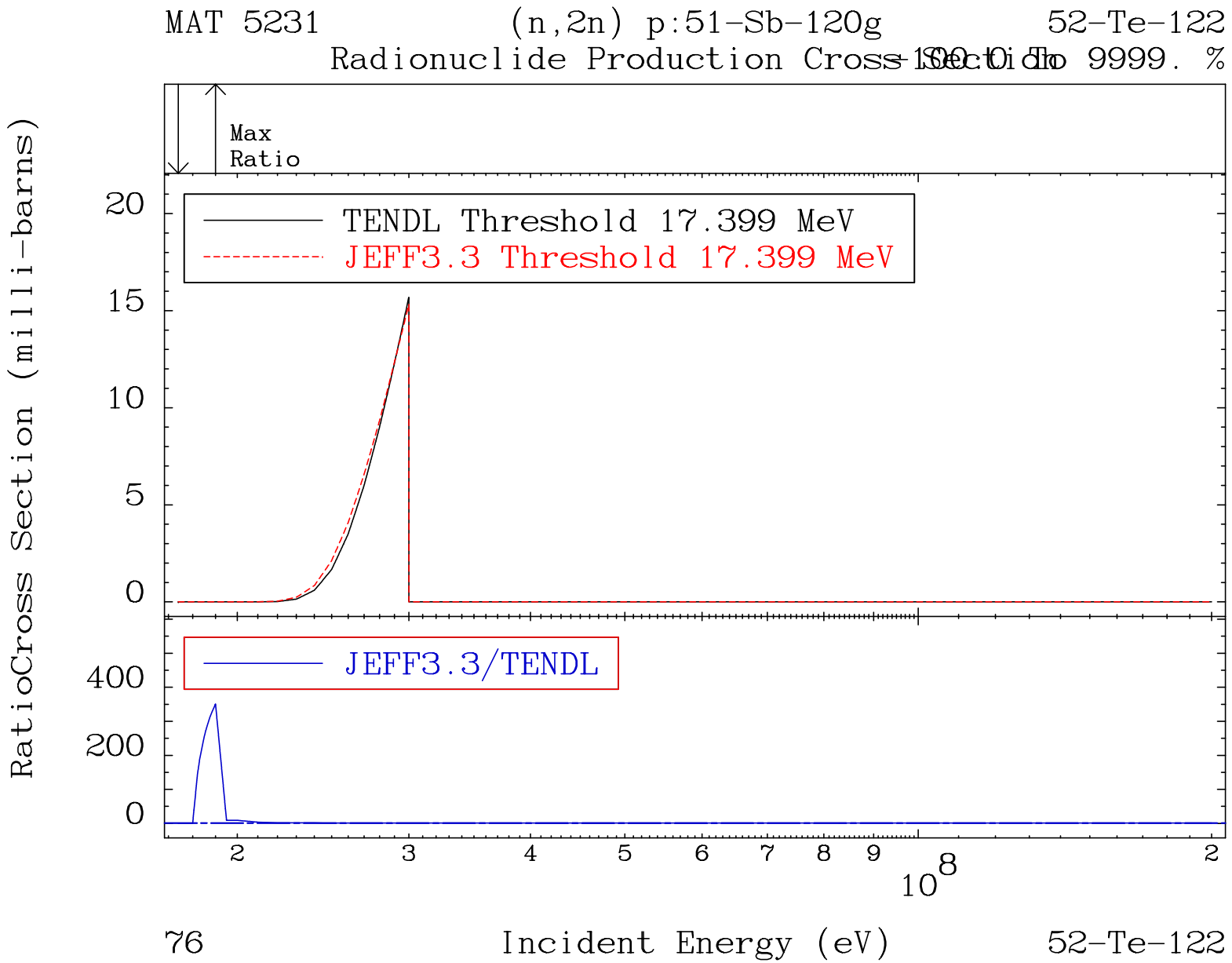

MAT 5231
(n,n') d:51-Sb-120g
52-Te-122
Radionuclide Production Cross Section To 492.0 %
Max
Ratio
TENDL Threshold 15.156 MeV
JEFF3.3 Threshold 15.156 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
8
4
0
2
3
4
5
6
7
8
9
2
10^8
71
Incident Energy (eV)
52-Te-122

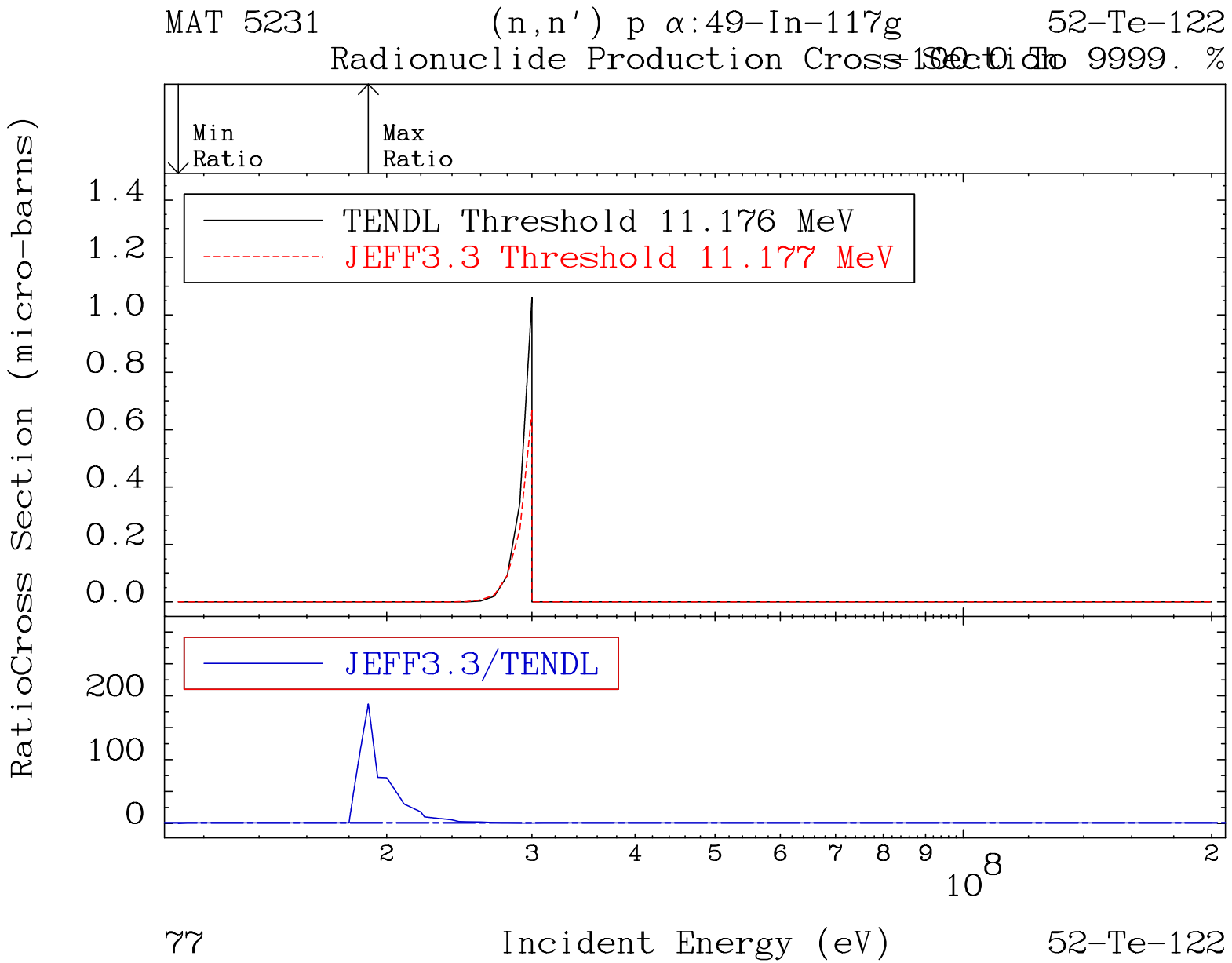

MAT 5231
(n,n') He-3:50-Sn-119g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.305 MeV
JEFF3.3 Threshold 15.305 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
72
52-Te-122

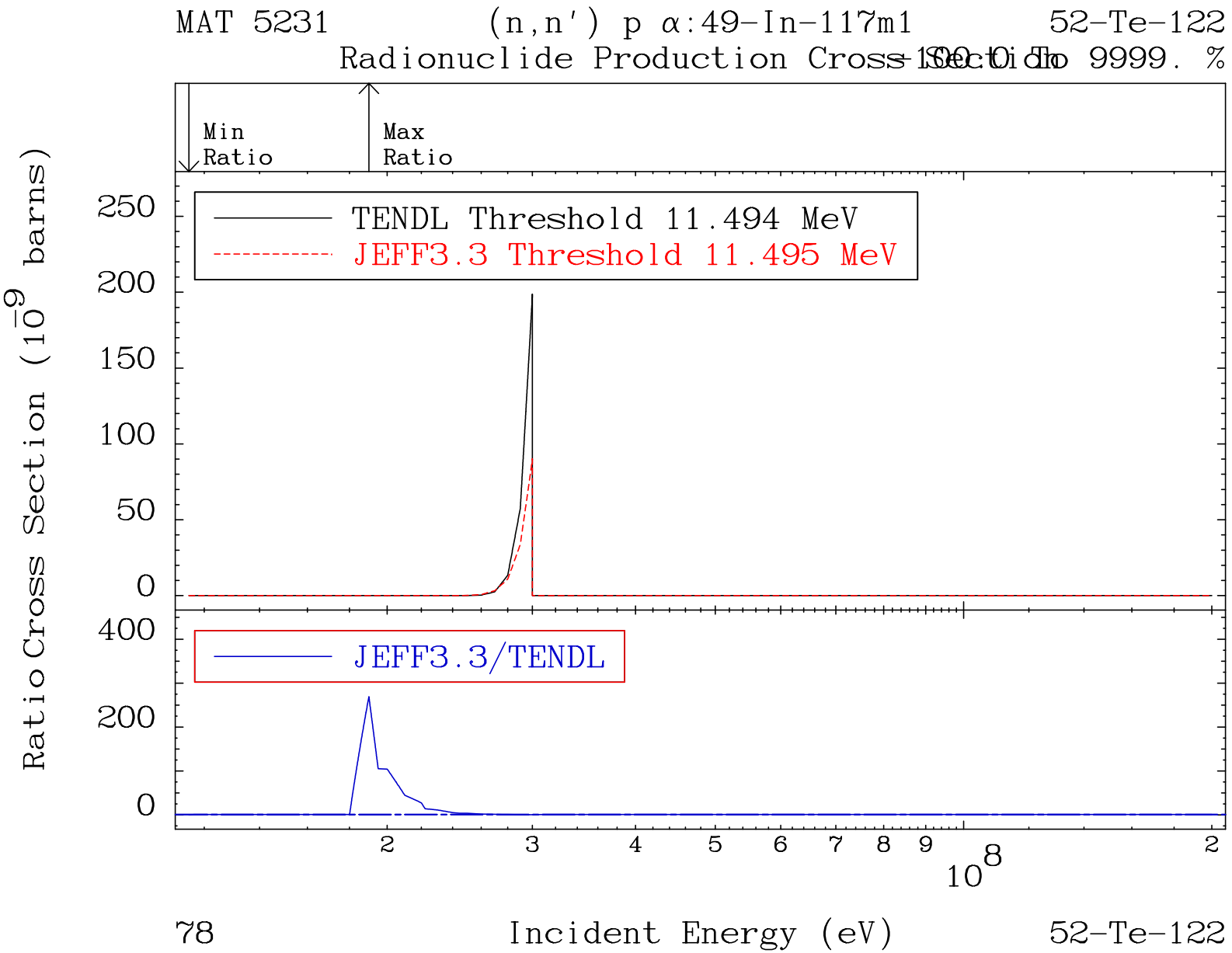

MAT 5231
(n,n') He-3:50-Sn-119m2
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.395 MeV
JEFF3.3 Threshold 15.395 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
73
52-Te-122

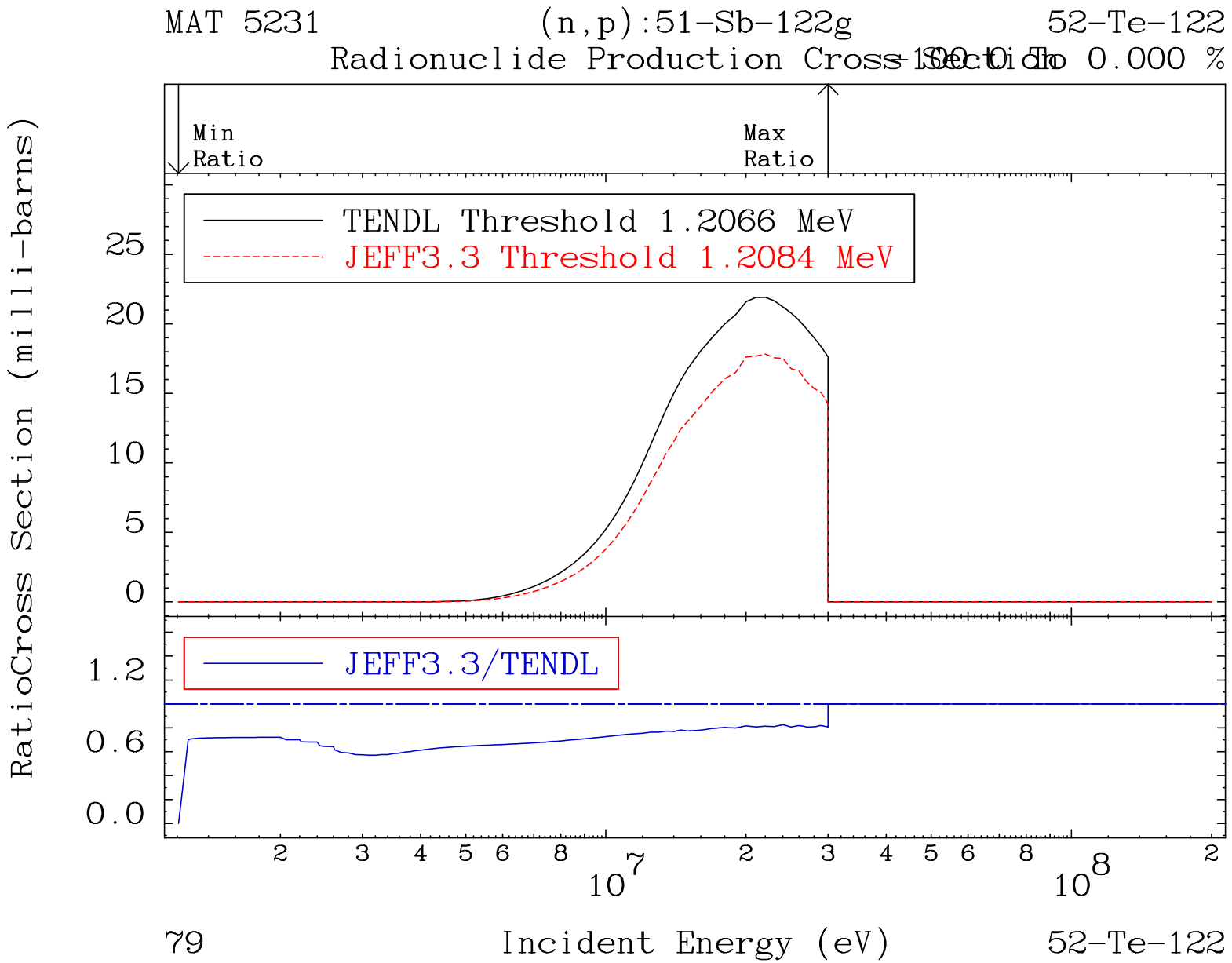

MAT 5231
(n,4n):52-Te-119g
52-Te-122
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 27.571 MeV
JEFF3.3 Threshold 27.571 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
200
100
0
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
52-Te-122

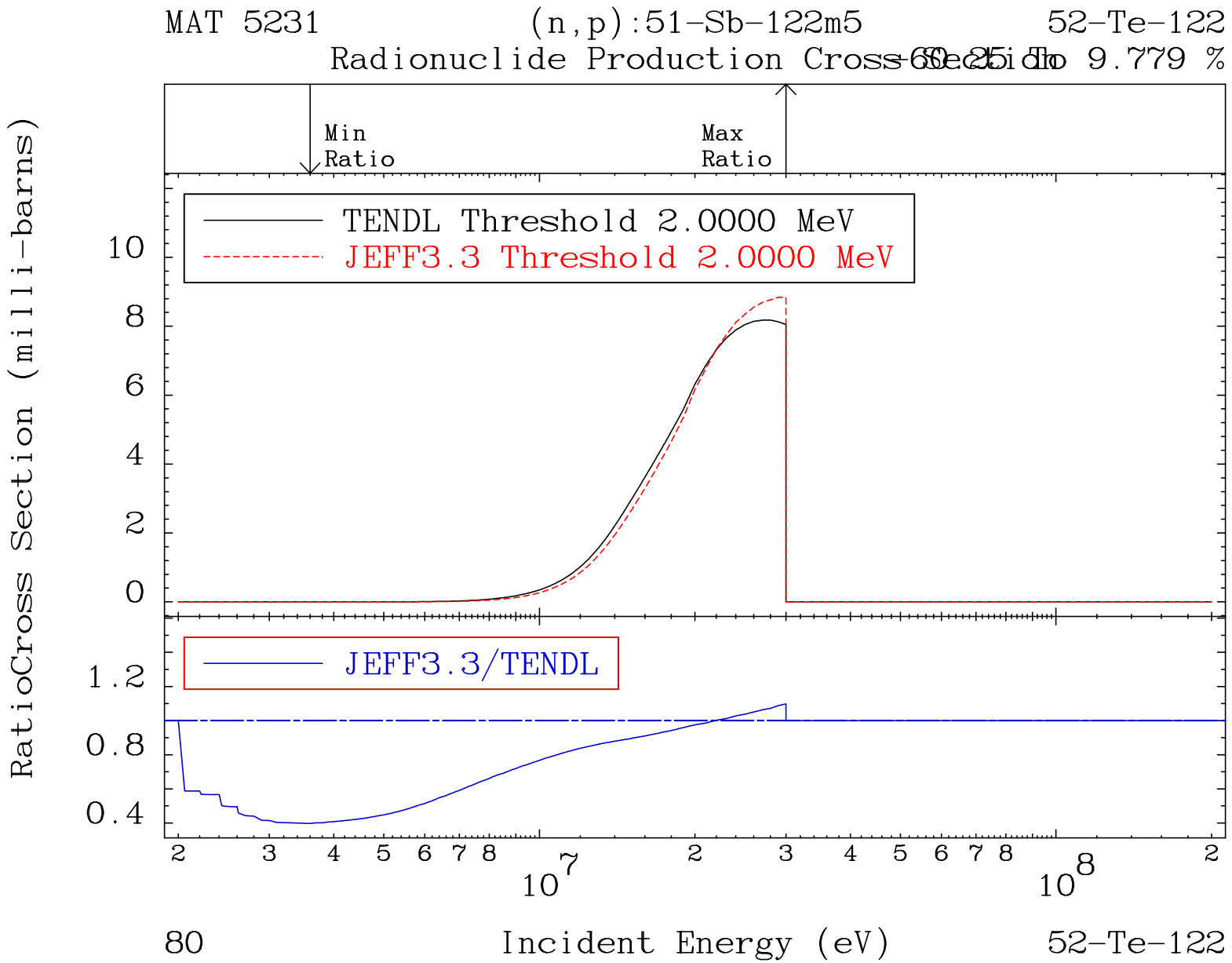

MAT 5231
(n,4n):52-Te-119m2
52-Te-122
Radionuclide Production Cross Section
Uncertainty 9999. %
Max
Ratio
TENDL Threshold 27.834 MeV
JEFF3.3 Threshold 27.834 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
0.8
0.4
0.0
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
52-Te-122

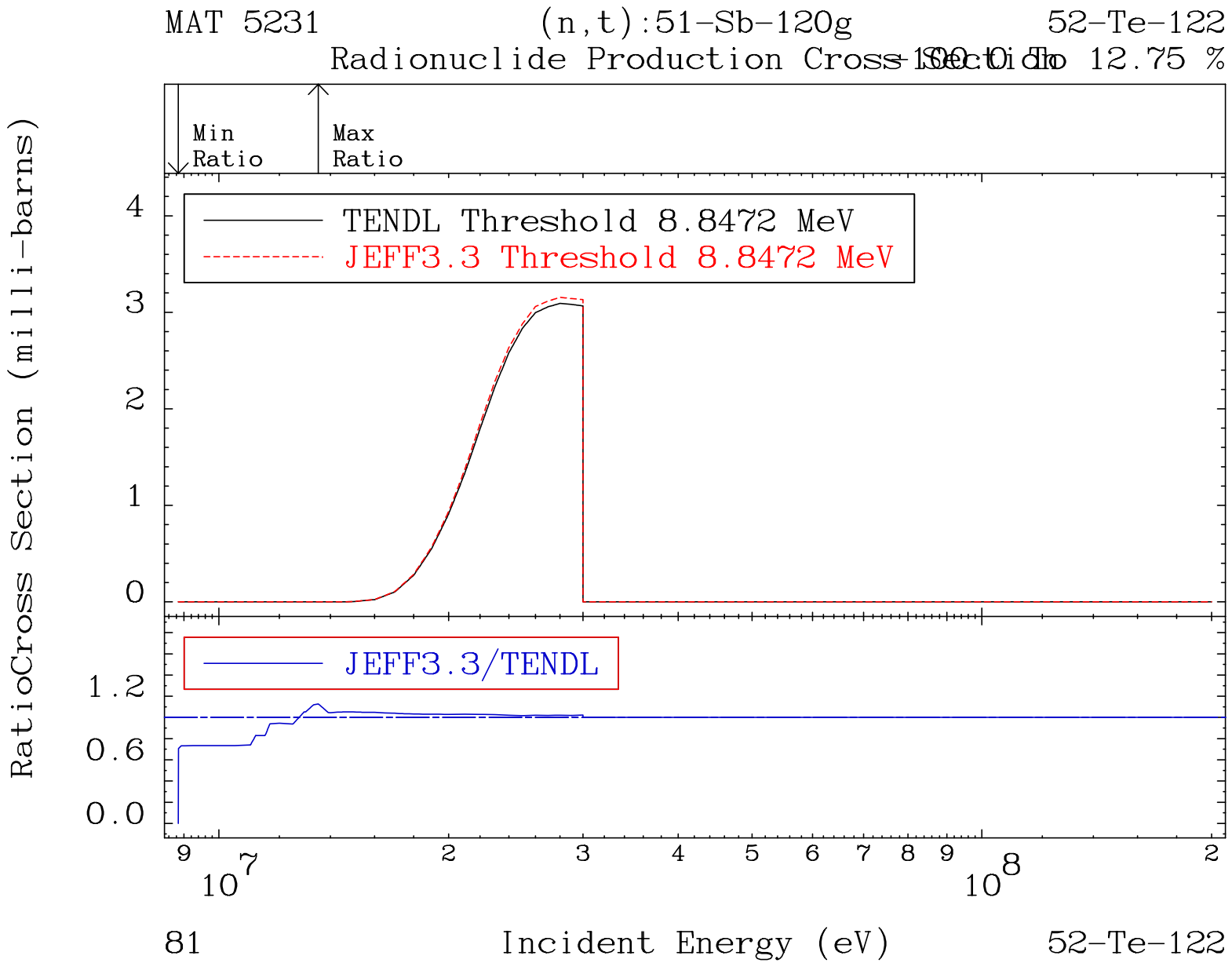

MAT 5231
(n,2n) p:51-Sb-120g
52-Te-122
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 17.399 MeV
JEFF3.3 Threshold 17.399 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
400
200
0
2
3
4
5
6
7
8
9
2
10^8
76
Incident Energy (eV)
52-Te-122

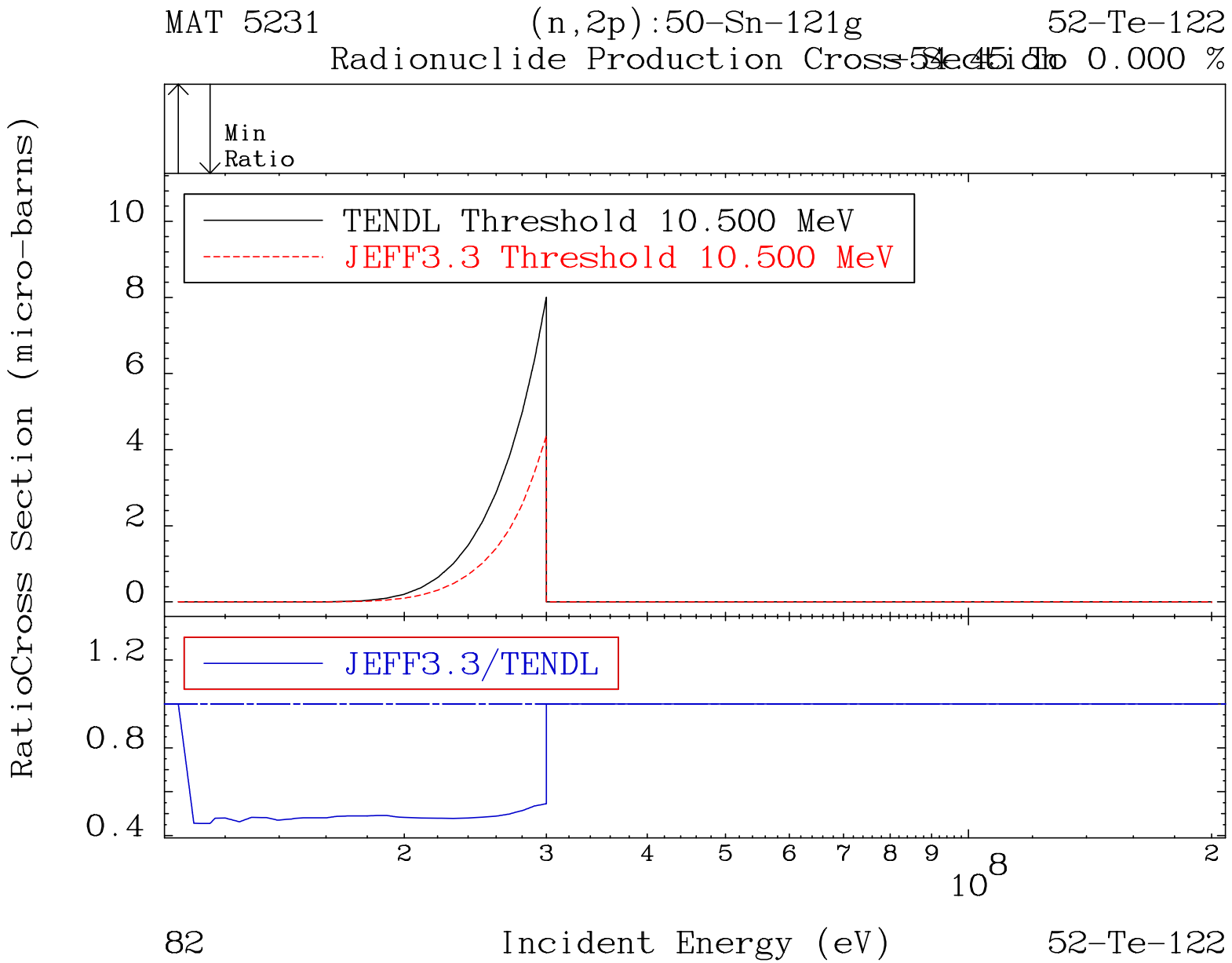

MAT 5231
(n,n') p α:49-In-117g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 11.176 MeV
JEFF3.3 Threshold 11.177 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
77
52-Te-122

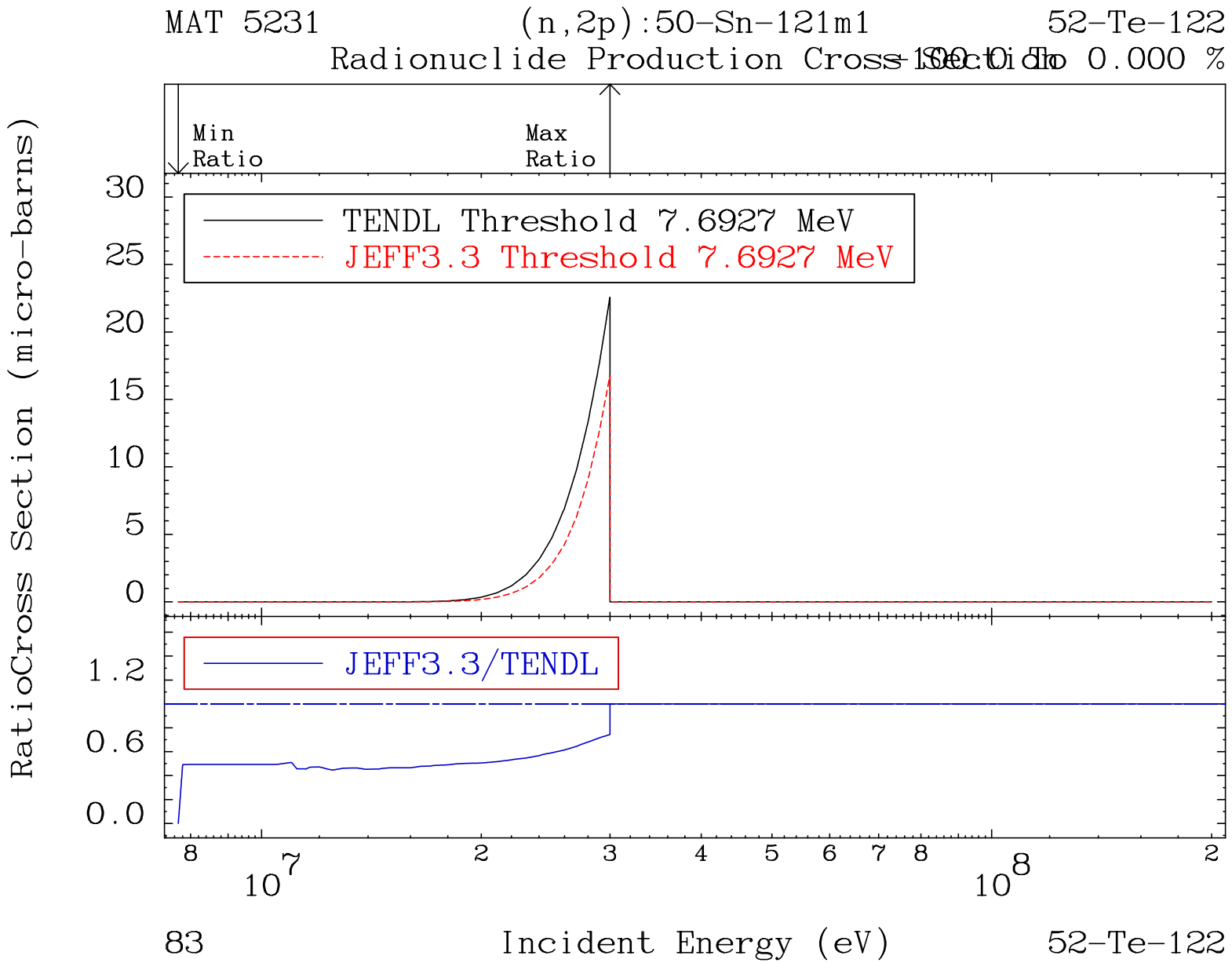

MAT 5231
(n,n') p α:49-In-117m1
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 11.494 MeV
JEFF3.3 Threshold 11.495 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
78
52-Te-122

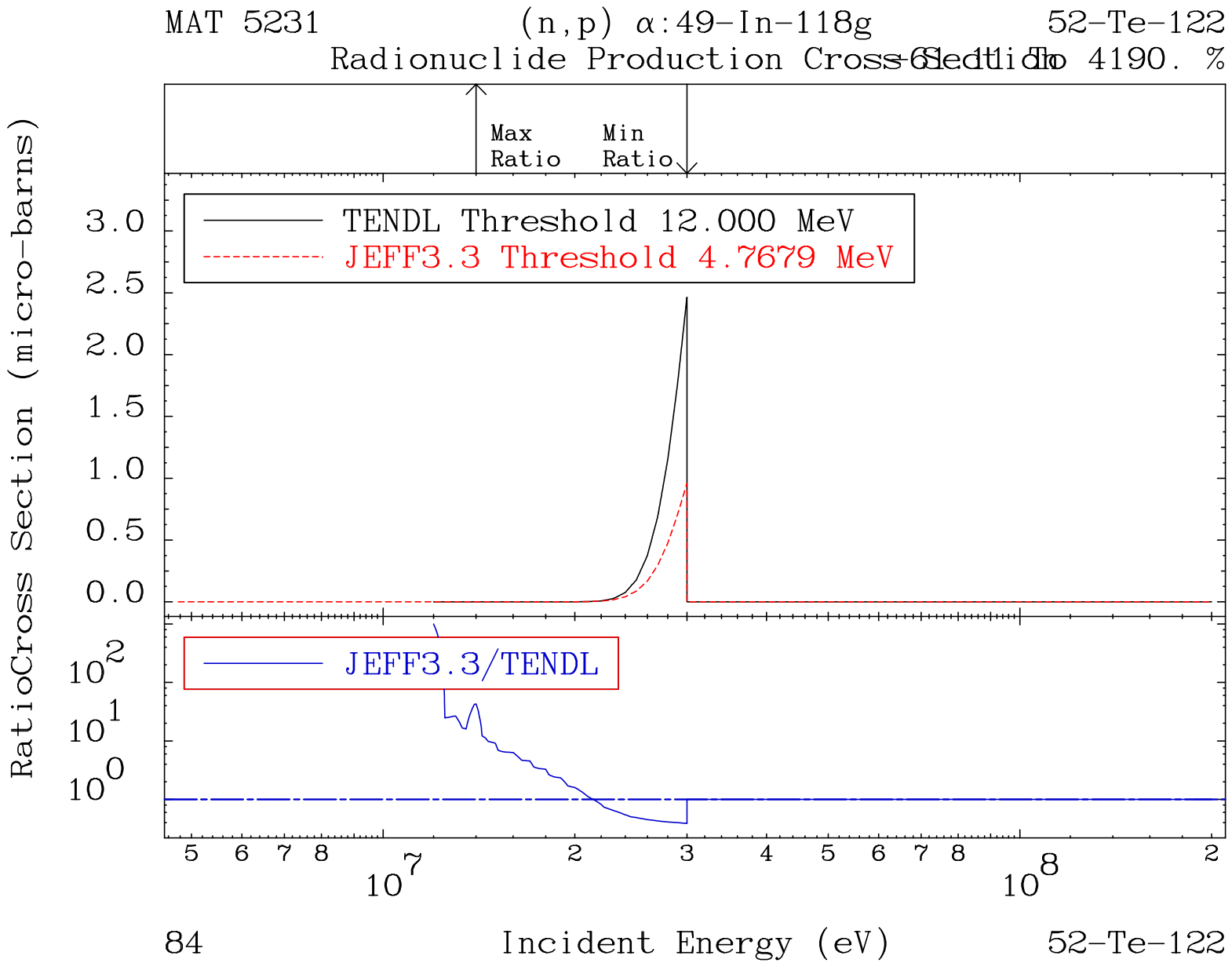

MAT 5231
(n,p):51-Sb-122g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 1.2066 MeV
JEFF3.3 Threshold 1.2084 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
52-Te-122

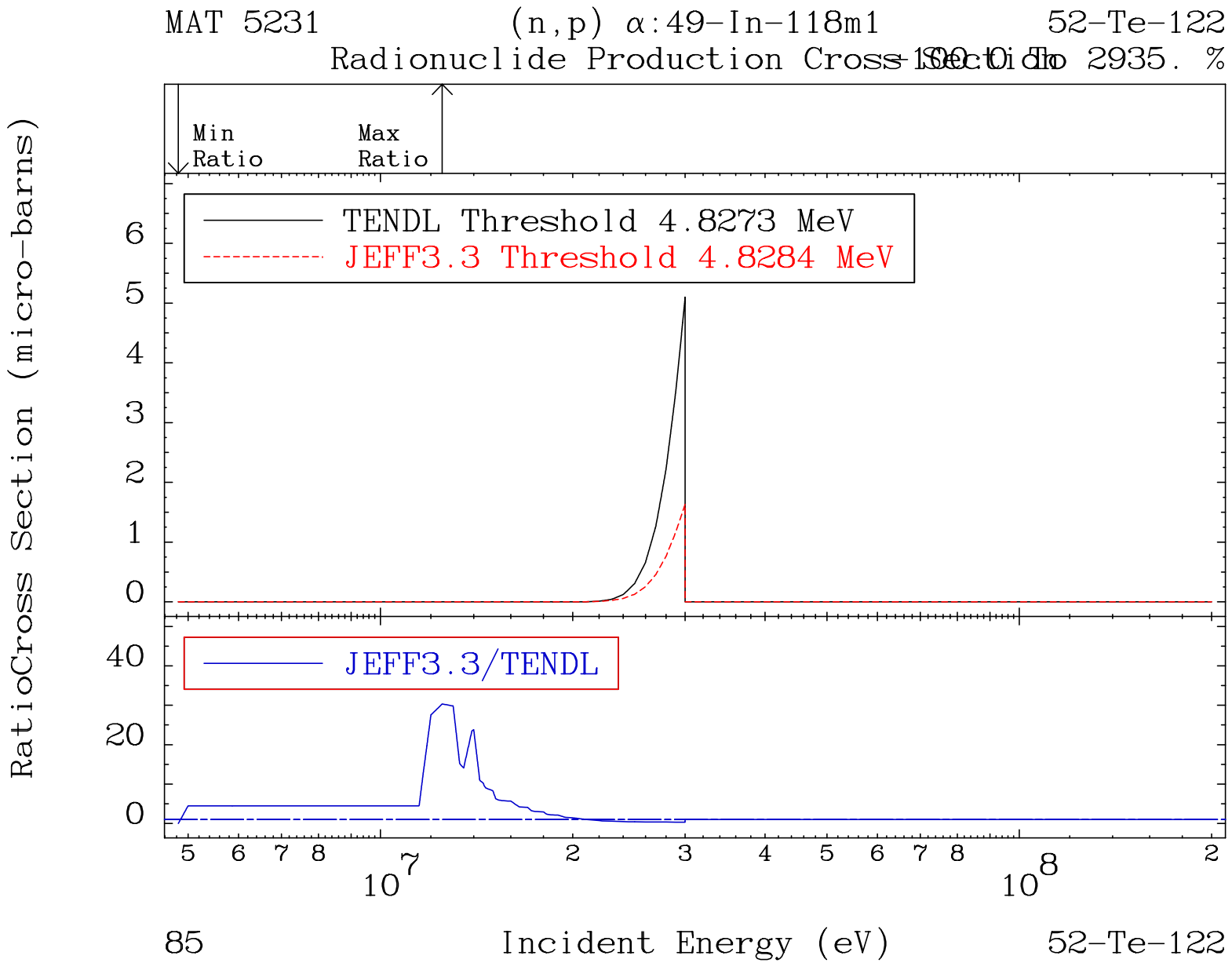

MAT 5231
(n,p):51-Sb-122m5
52-Te-122
Radionuclide Production Cross Section To 9.779 %
Min Ratio
Max Ratio
TENDL Threshold 2.0000 MeV
JEFF3.3 Threshold 2.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80
52-Te-122

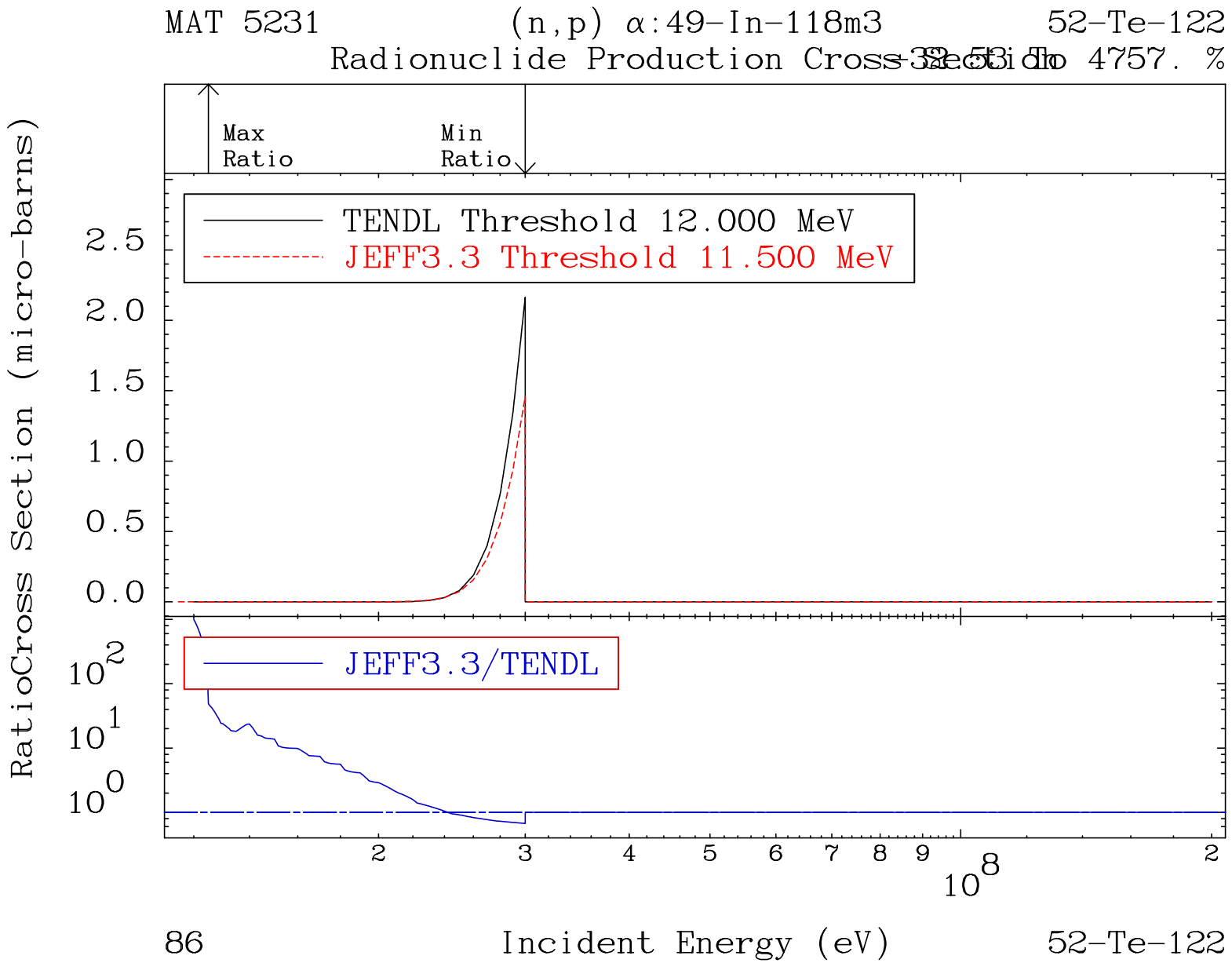

MAT 5231
(n,t):51-Sb-120g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 8.8472 MeV
JEFF3.3 Threshold 8.8472 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
52-Te-122

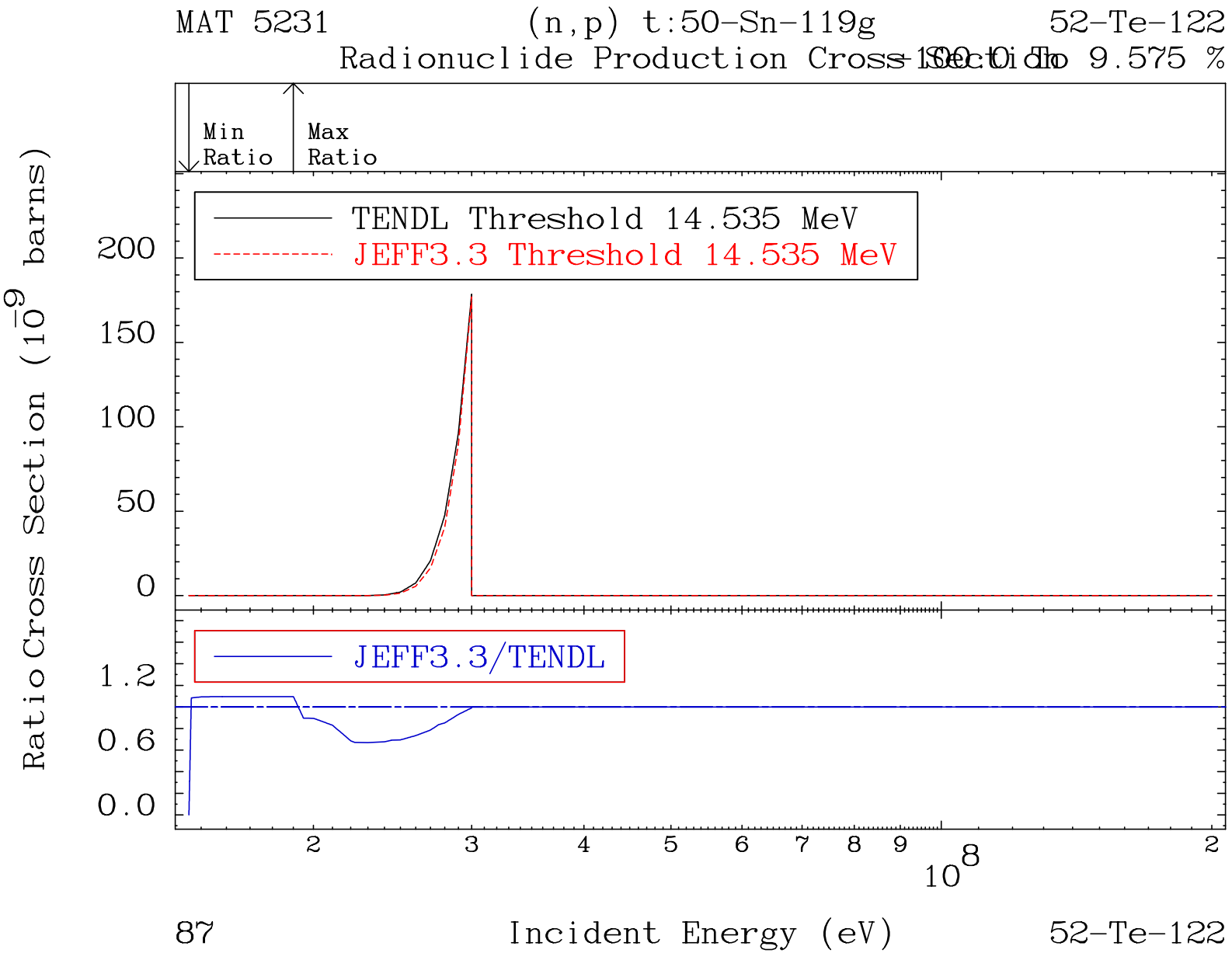

MAT 5231
(n,2p):50-Sn-121g
52-Te-122
Radionuclide Production Cross Section
Min
Ratio
TENDL Threshold 10.500 MeV
JEFF3.3 Threshold 10.500 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
52-Te-122

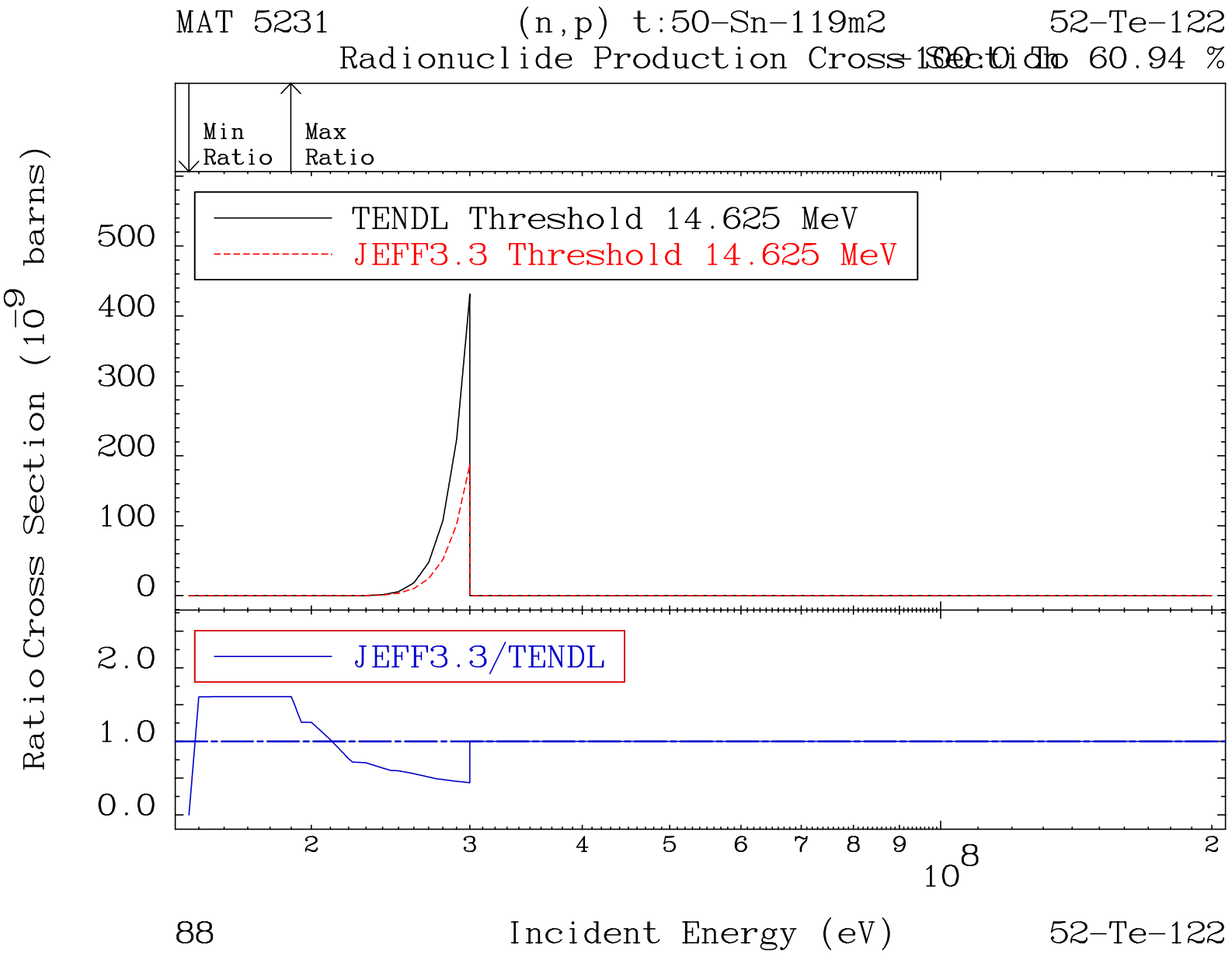

MAT 5231
(n,2p):50-Sn-121m1
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.6927 MeV
JEFF3.3 Threshold 7.6927 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
83
52-Te-122

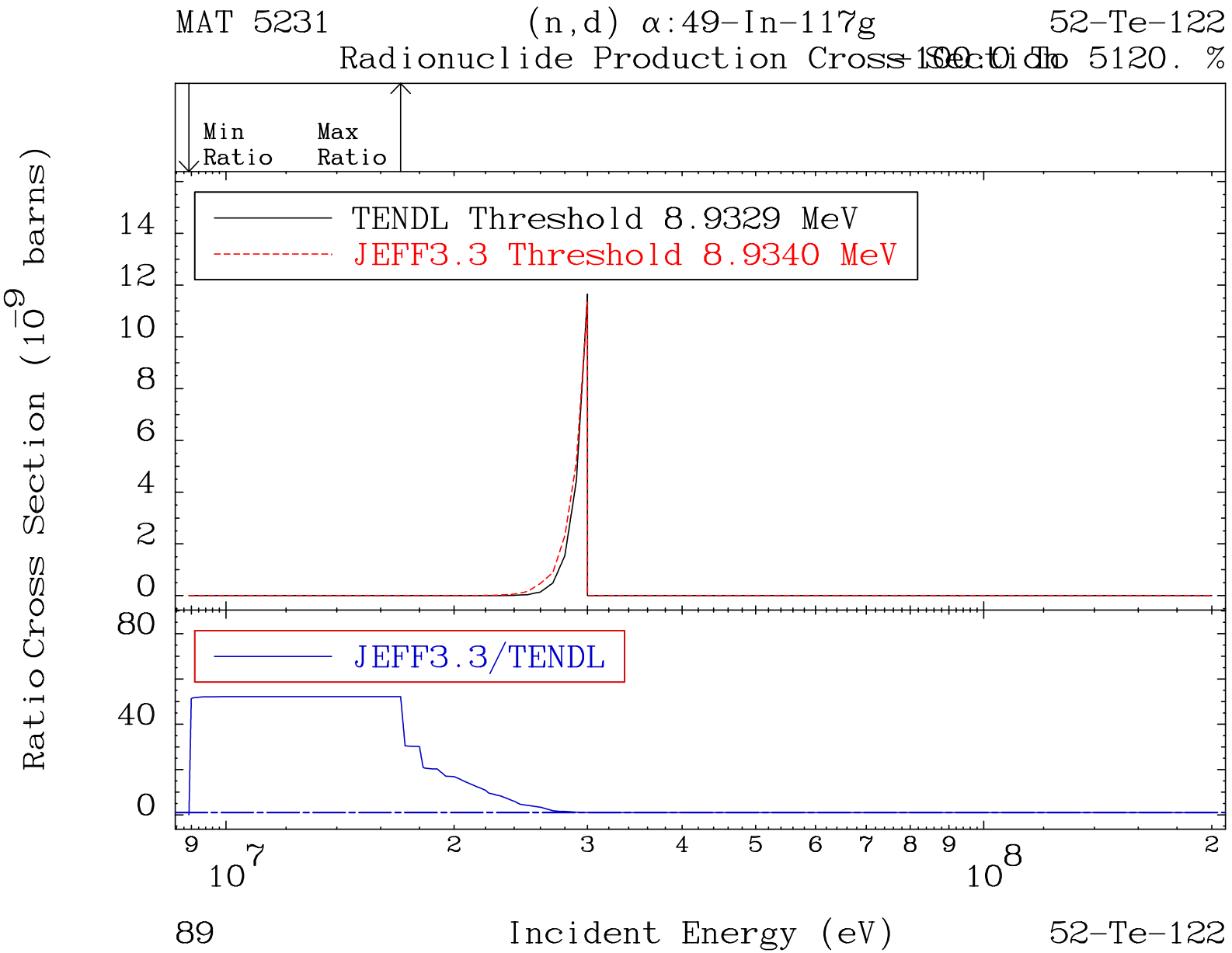

MAT 5231
(n,p) α:49-In-118g
52-Te-122
Radionuclide Production Cross-Section To 4190. %
Max Ratio
Min Ratio
TENDL Threshold 12.000 MeV
JEFF3.3 Threshold 4.7679 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^2
10^1
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
84
Incident Energy (eV)
52-Te-122

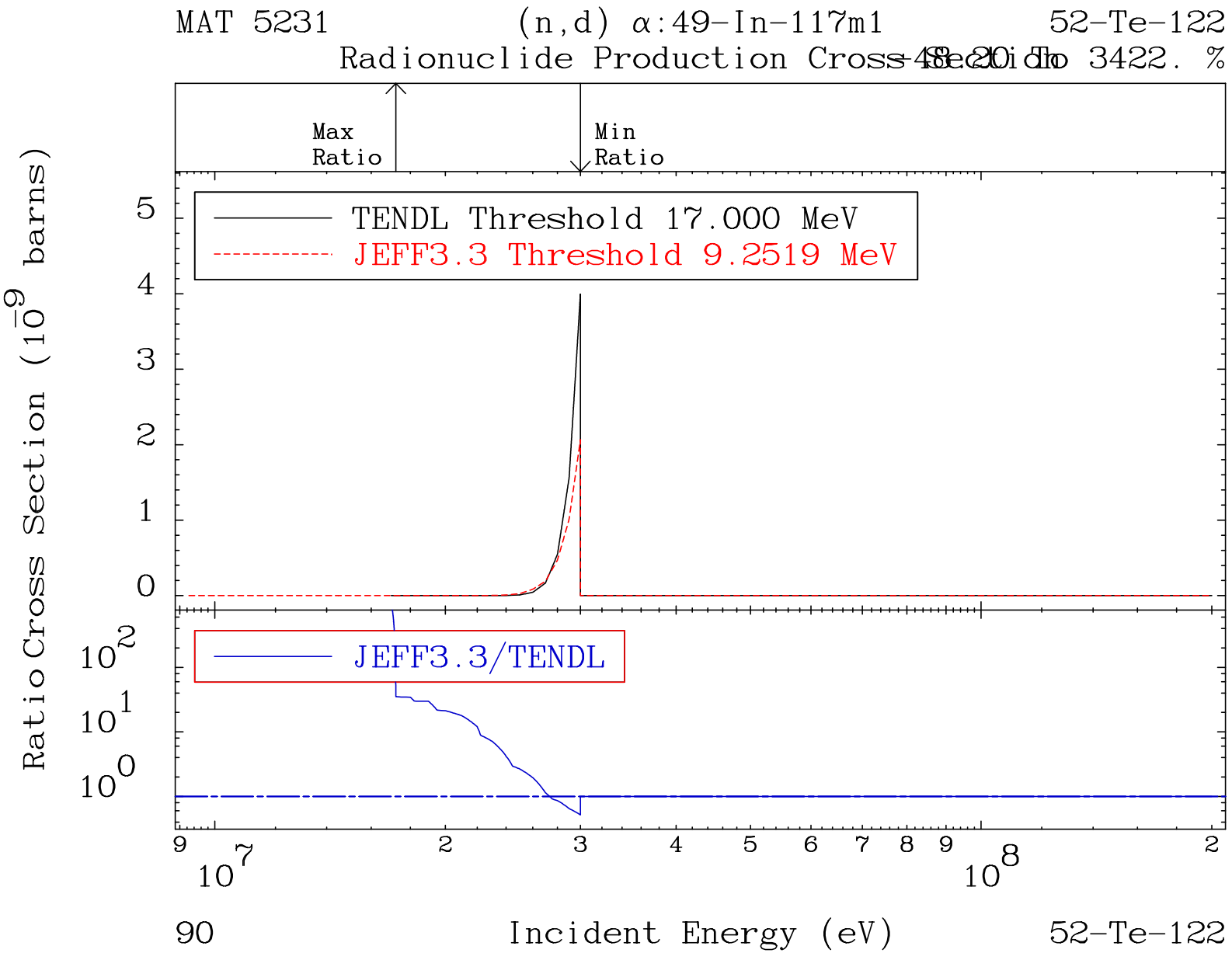

MAT 5231
(n,p) α:49-In-118m1
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 4.8273 MeV
JEFF3.3 Threshold 4.8284 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
85
52-Te-122


MAT 5231
(n,p) α:49-In-118m3
52-Te-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 12.000 MeV
JEFF3.3 Threshold 11.500 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
86
52-Te-122


MAT 5231
(n,p) t:50-Sn-119g
52-Te-122
Radionuclide Production Cross Section To 9.575 %
Min Ratio
Max Ratio
TENDL Threshold 14.535 MeV
JEFF3.3 Threshold 14.535 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
52-Te-122


MAT 5231
(n,p) t:50-Sn-119m2
52-Te-122
Radionuclide Production Cross-Section To 60.94 %
Min Ratio
Max Ratio
TENDL Threshold 14.625 MeV
JEFF3.3 Threshold 14.625 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
500
400
300
200
100
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
52-Te-122


MAT 5231
(n,d) α:49-In-117g
52-Te-122
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 8.9329 MeV
JEFF3.3 Threshold 8.9340 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
89
52-Te-122


MAT 5231
(n,d) α:49-In-117m1
52-Te-122
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 17.000 MeV
JEFF3.3 Threshold 9.2519 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
90
52-Te-122