Program Complot
(Version 2021-1)
by
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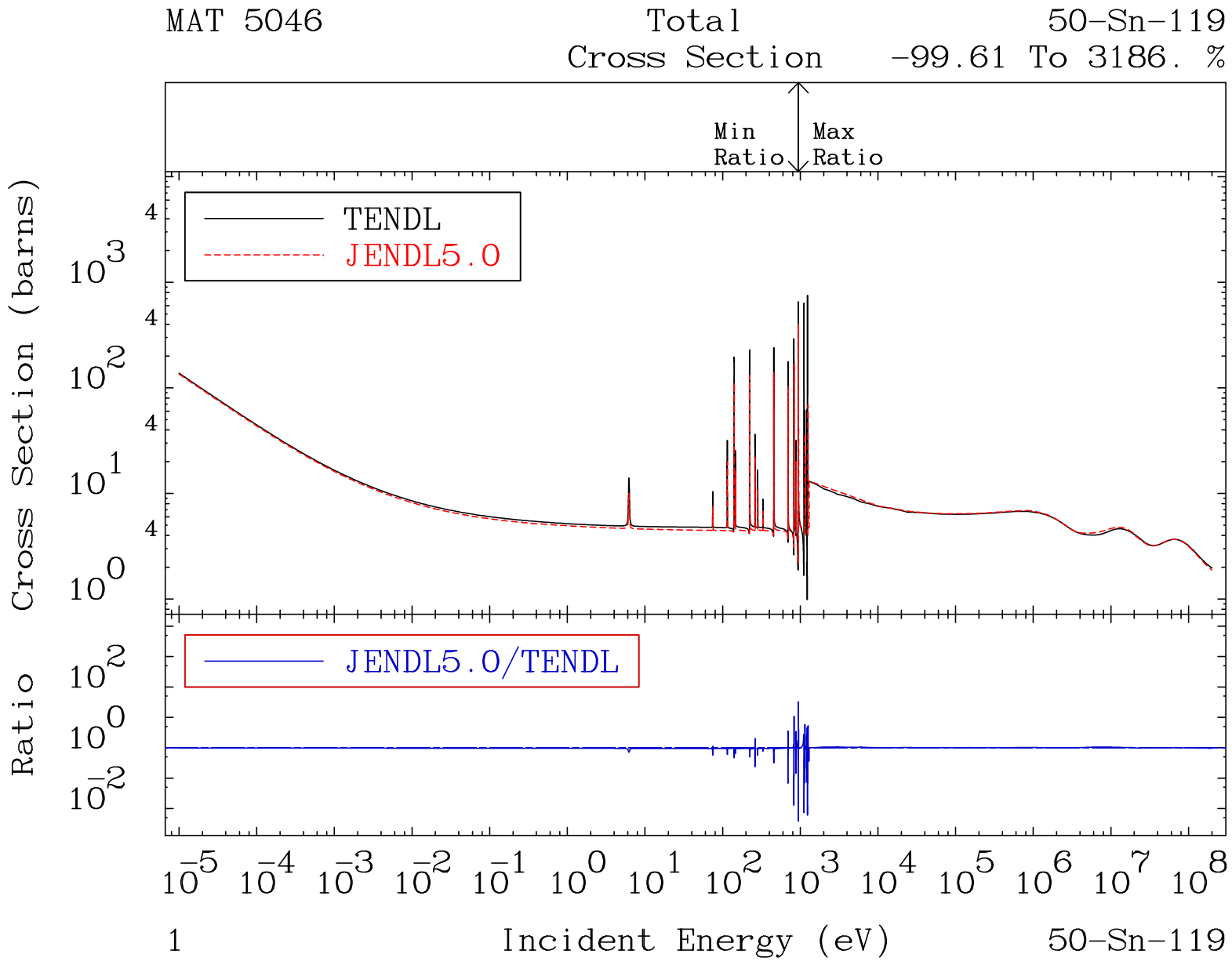
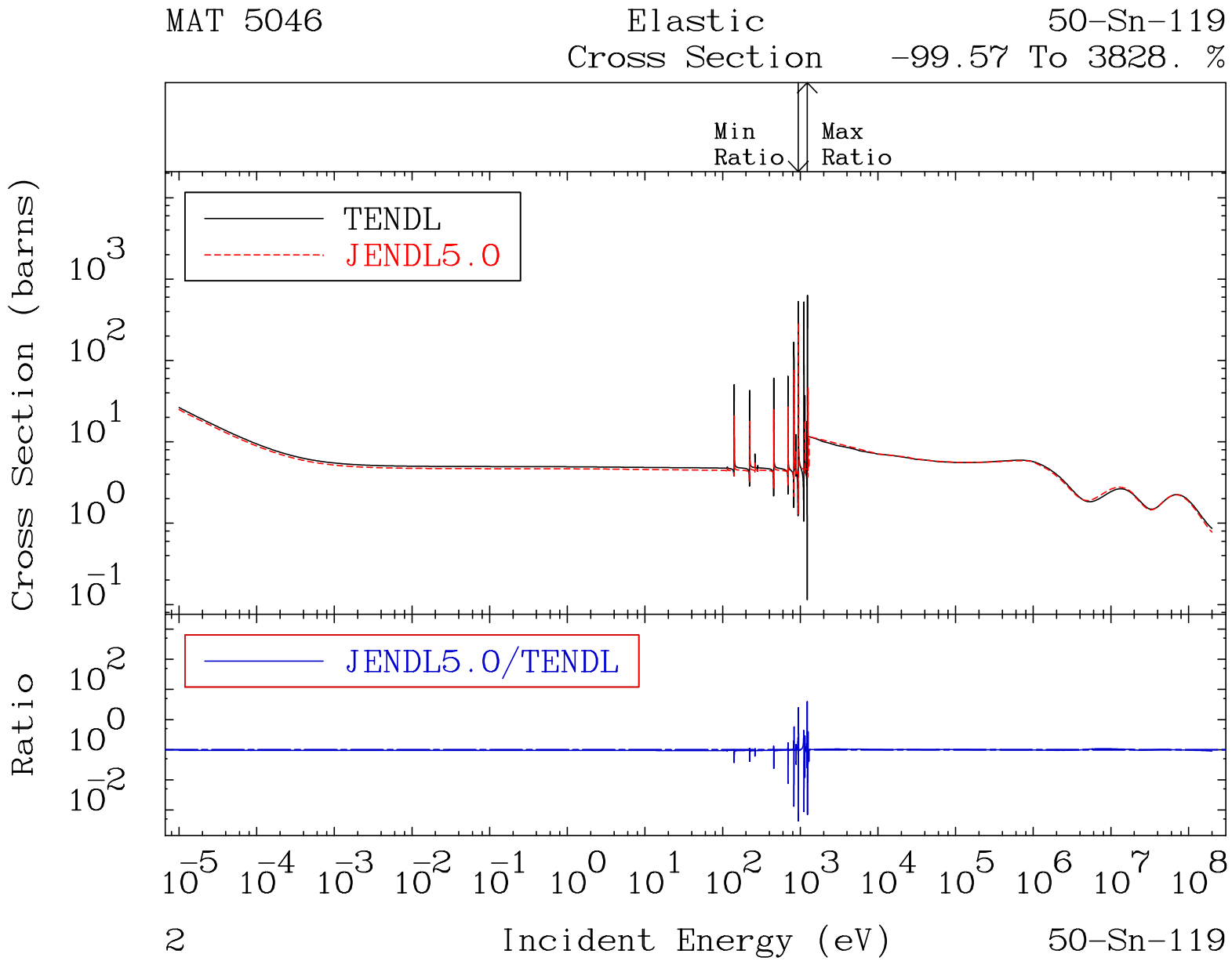
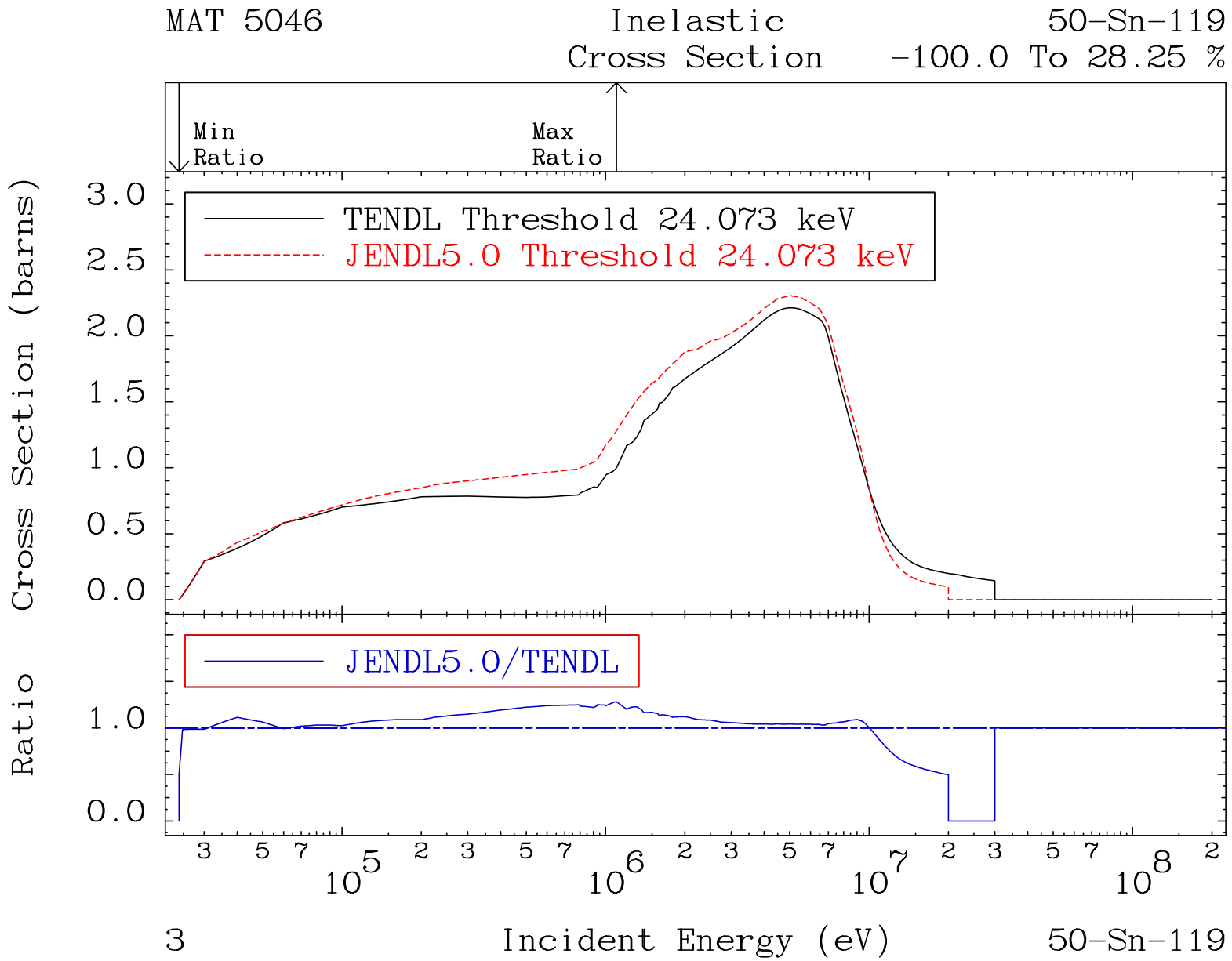
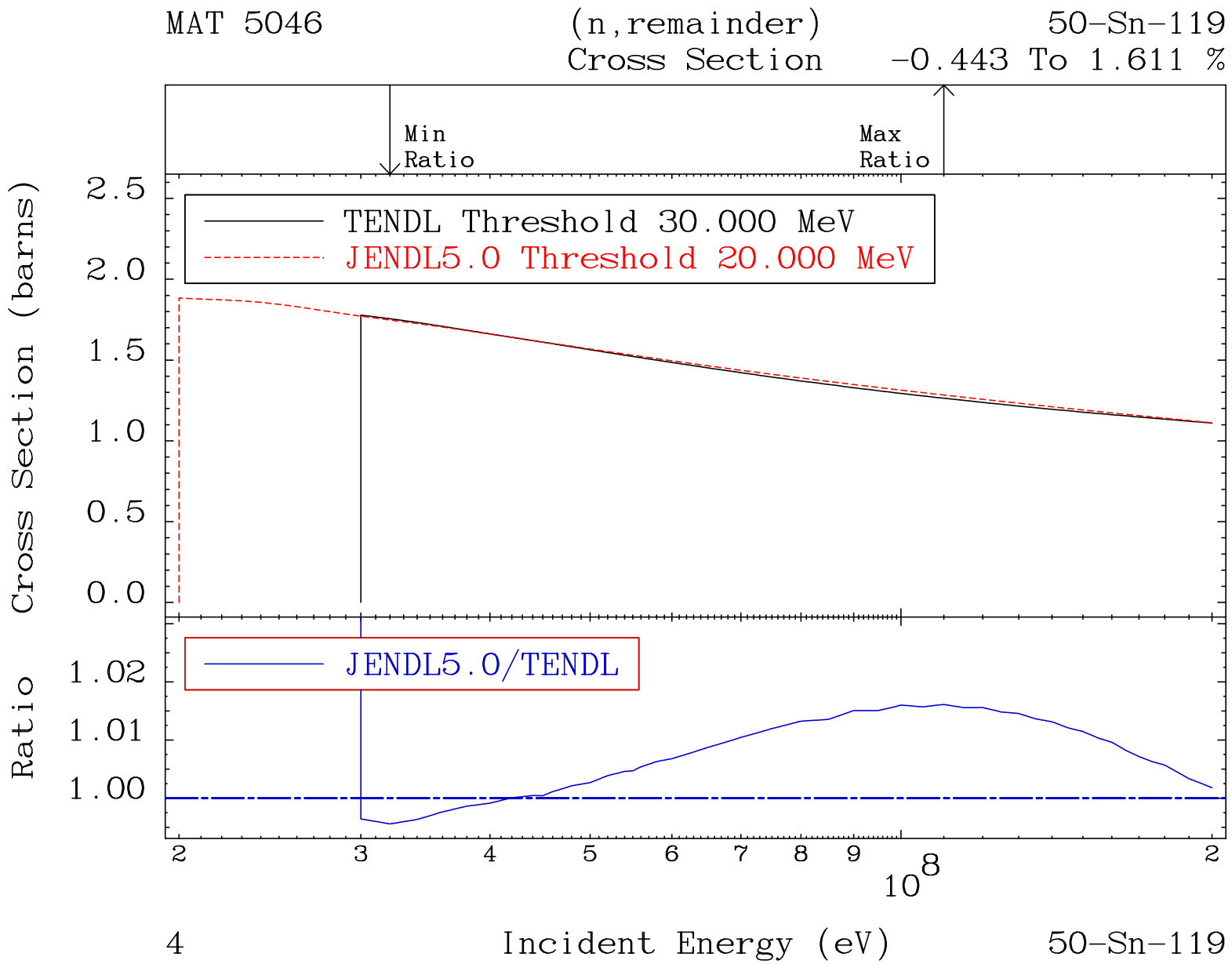
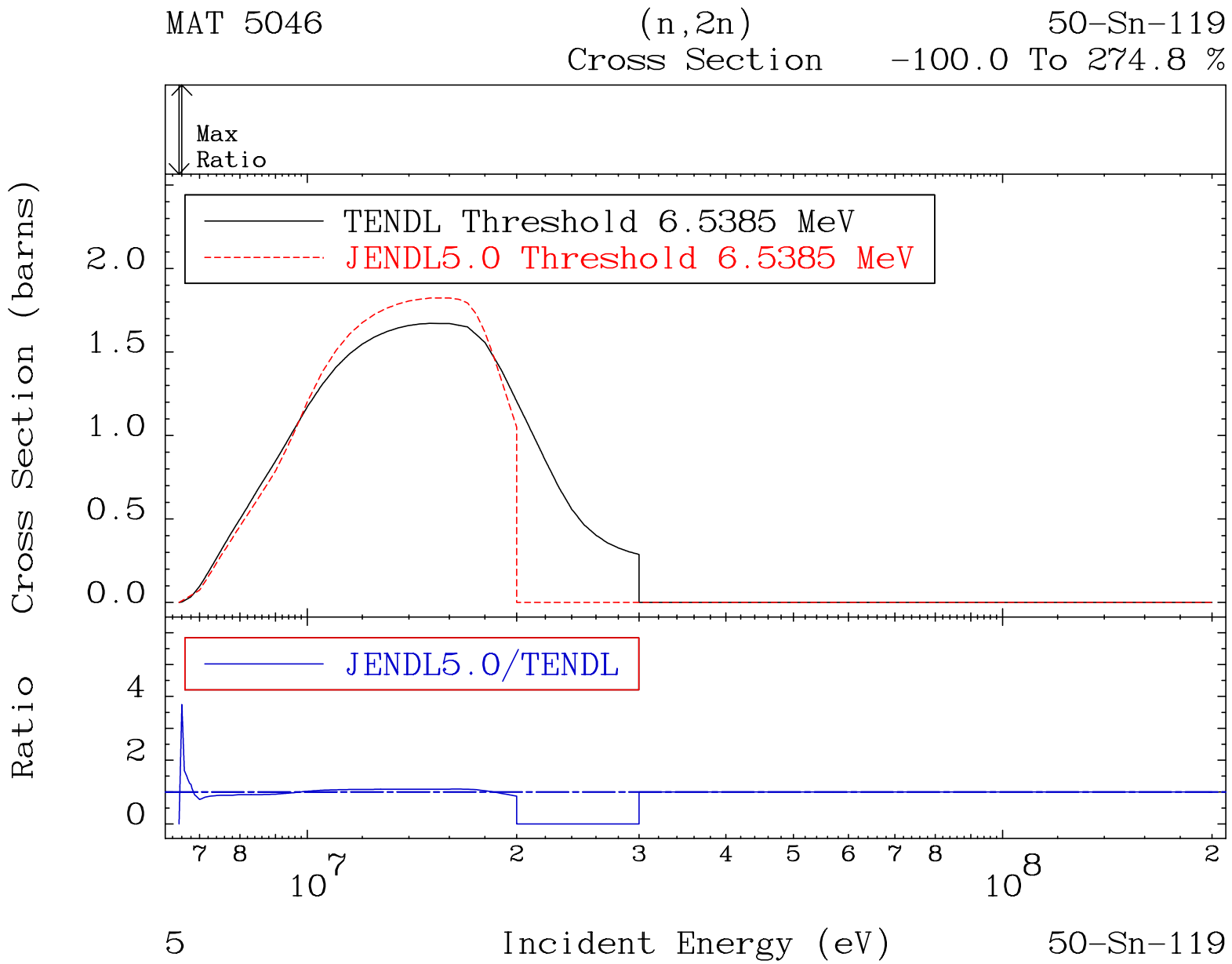
Press Mouse Button to Start

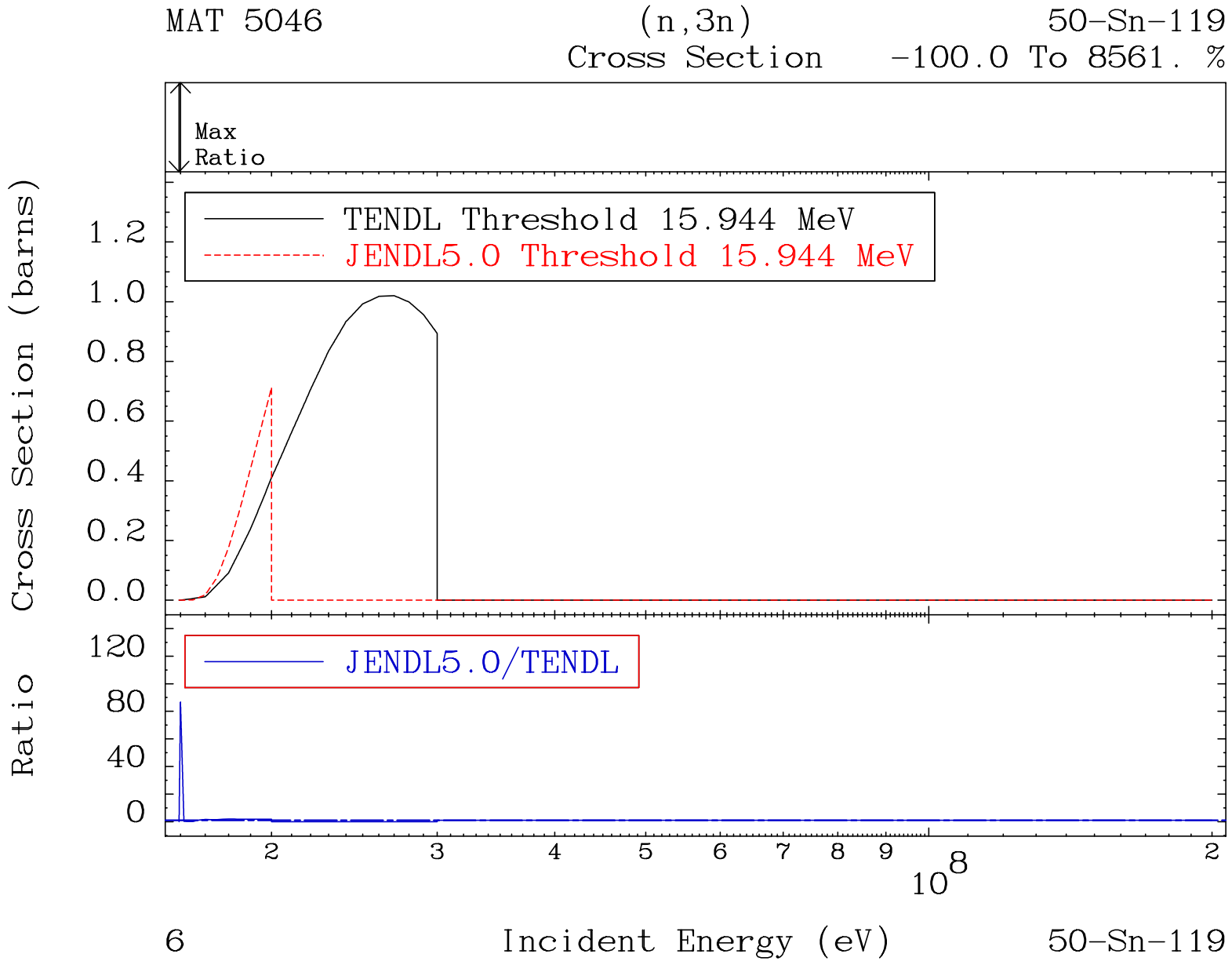

MAT 5046
Total
Cross Section
50-Sn-119
-99.61 To 3186. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
50-Sn-119

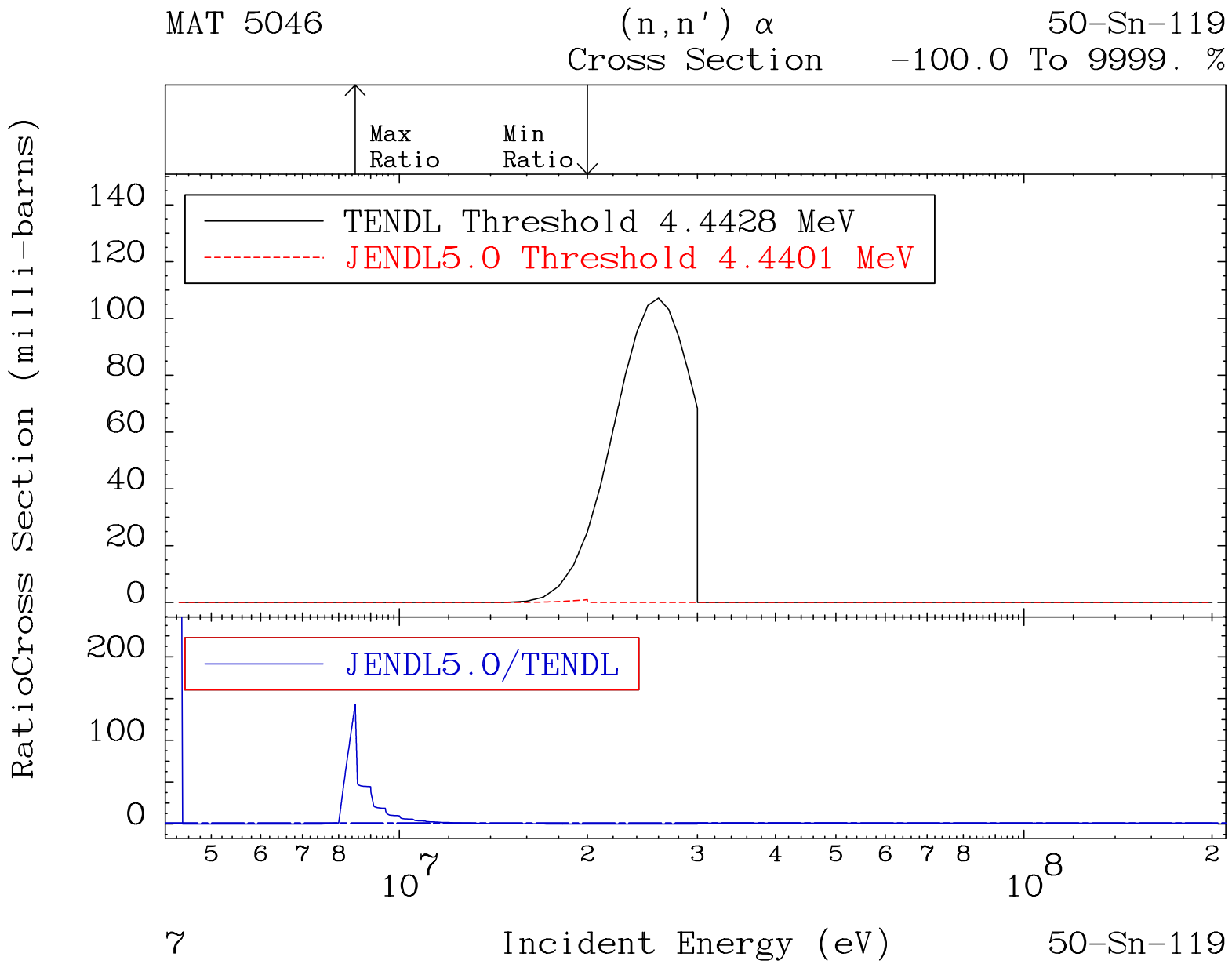

MAT 5046
Elastic
Cross Section
50-Sn-119
-99.57 To 3828. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
2
50-Sn-119

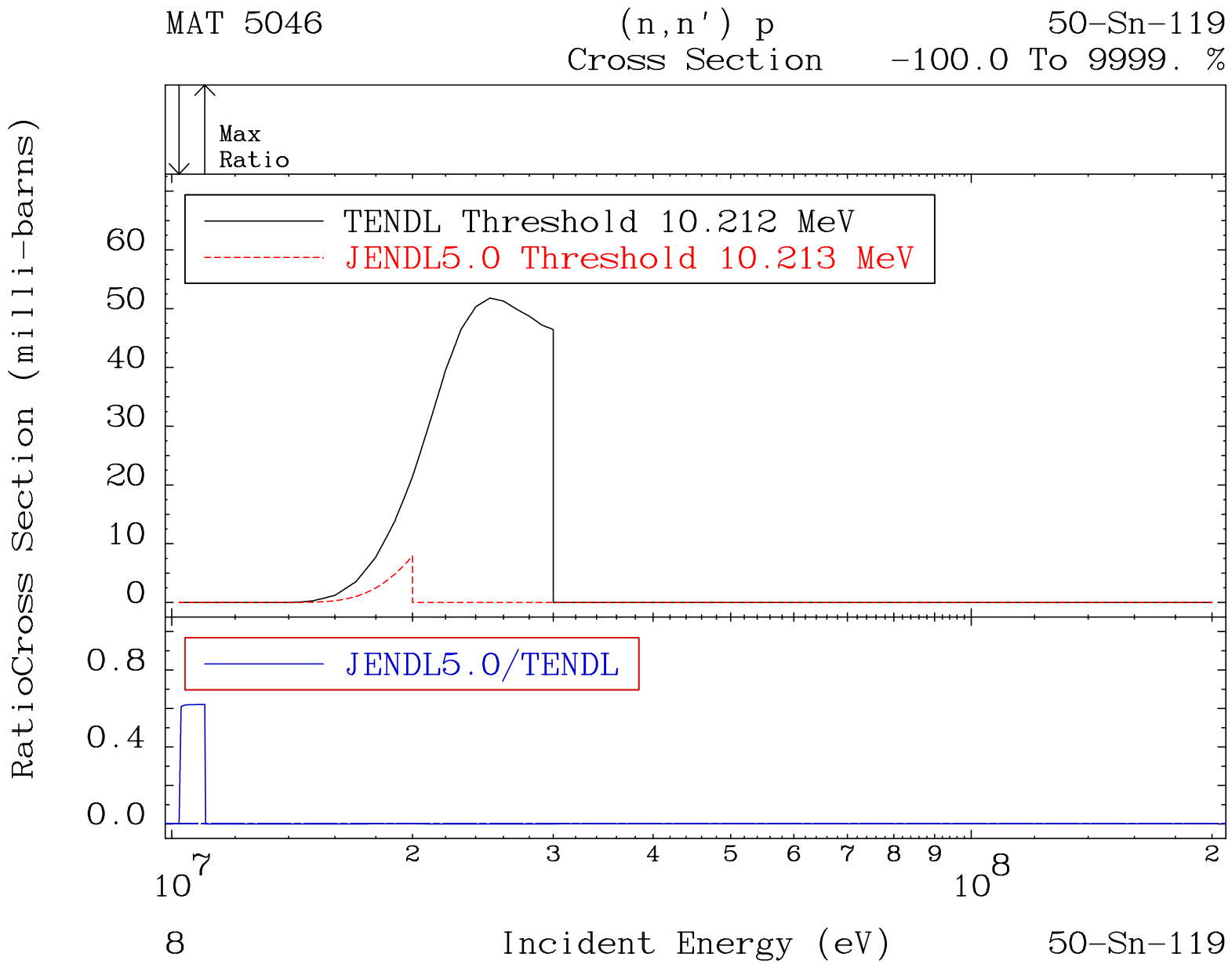

MAT 5046
Inelastic
Cross Section
50-Sn-119
-100.0 To 28.25 %
Min
Ratio
Max
Ratio
TENDL Threshold 24.073 keV
JENDL5.0 Threshold 24.073 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
50-Sn-119

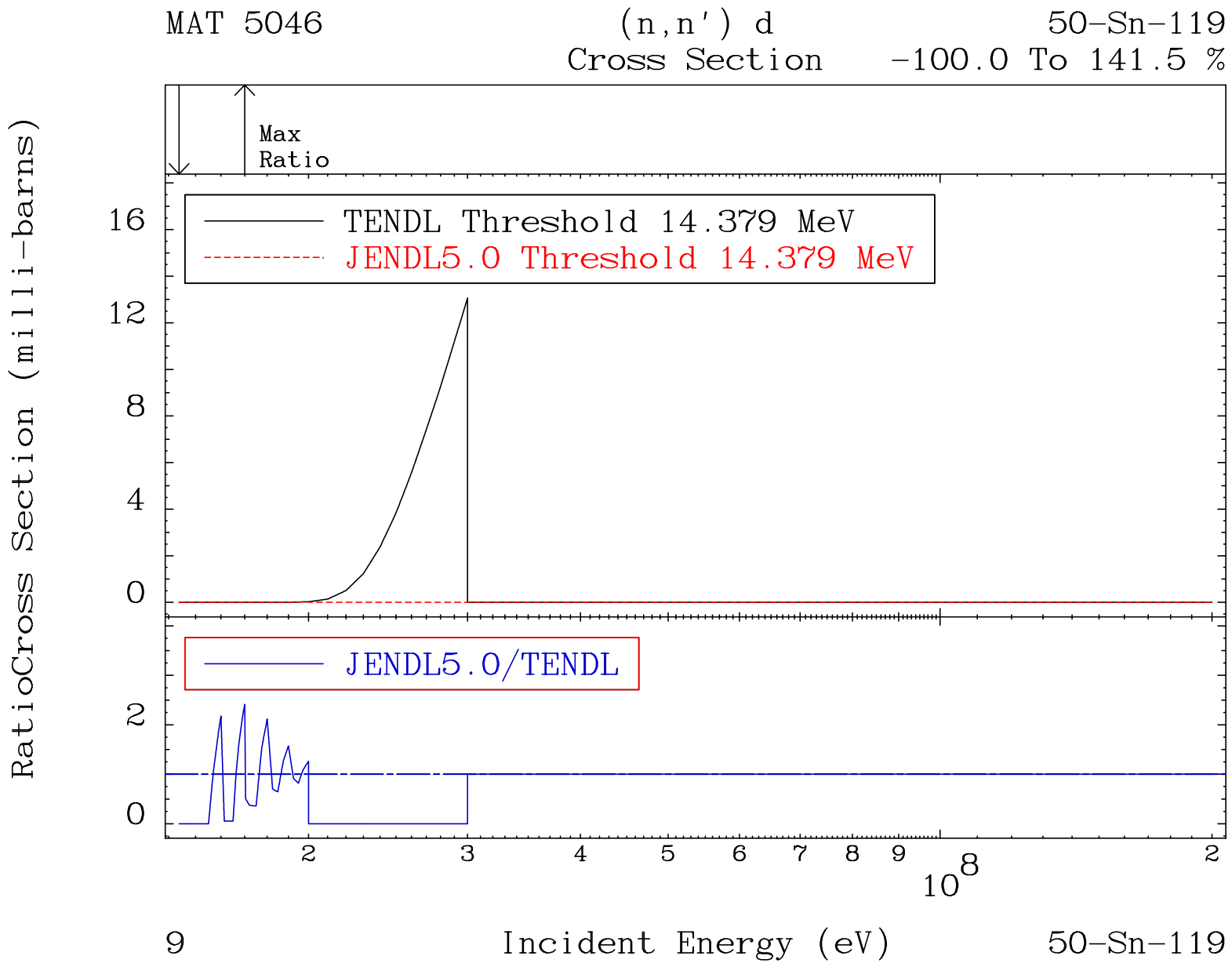

MAT 5046
(n,remainder)
Cross Section
50-Sn-119
-0.443 To 1.611 %
Min Ratio
Max Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.02
1.01
1.00
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
4
50-Sn-119

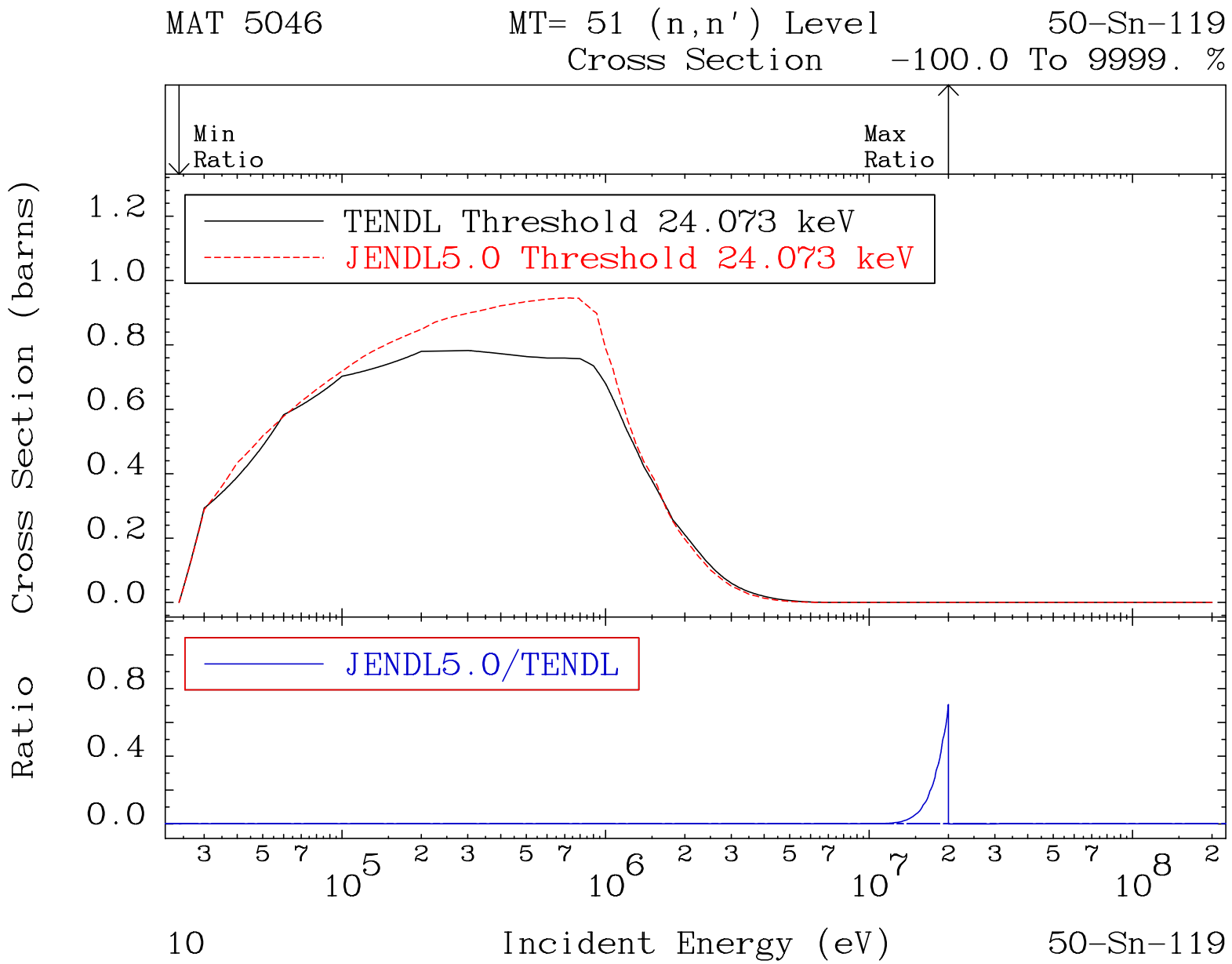

MAT 5046
(n,2n)
Cross Section
50-Sn-119
-100.0 To 274.8 %
Max
Ratio
TENDL Threshold 6.5385 MeV
JENDL5.0 Threshold 6.5385 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
4
2
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
5
Incident Energy (eV)
50-Sn-119

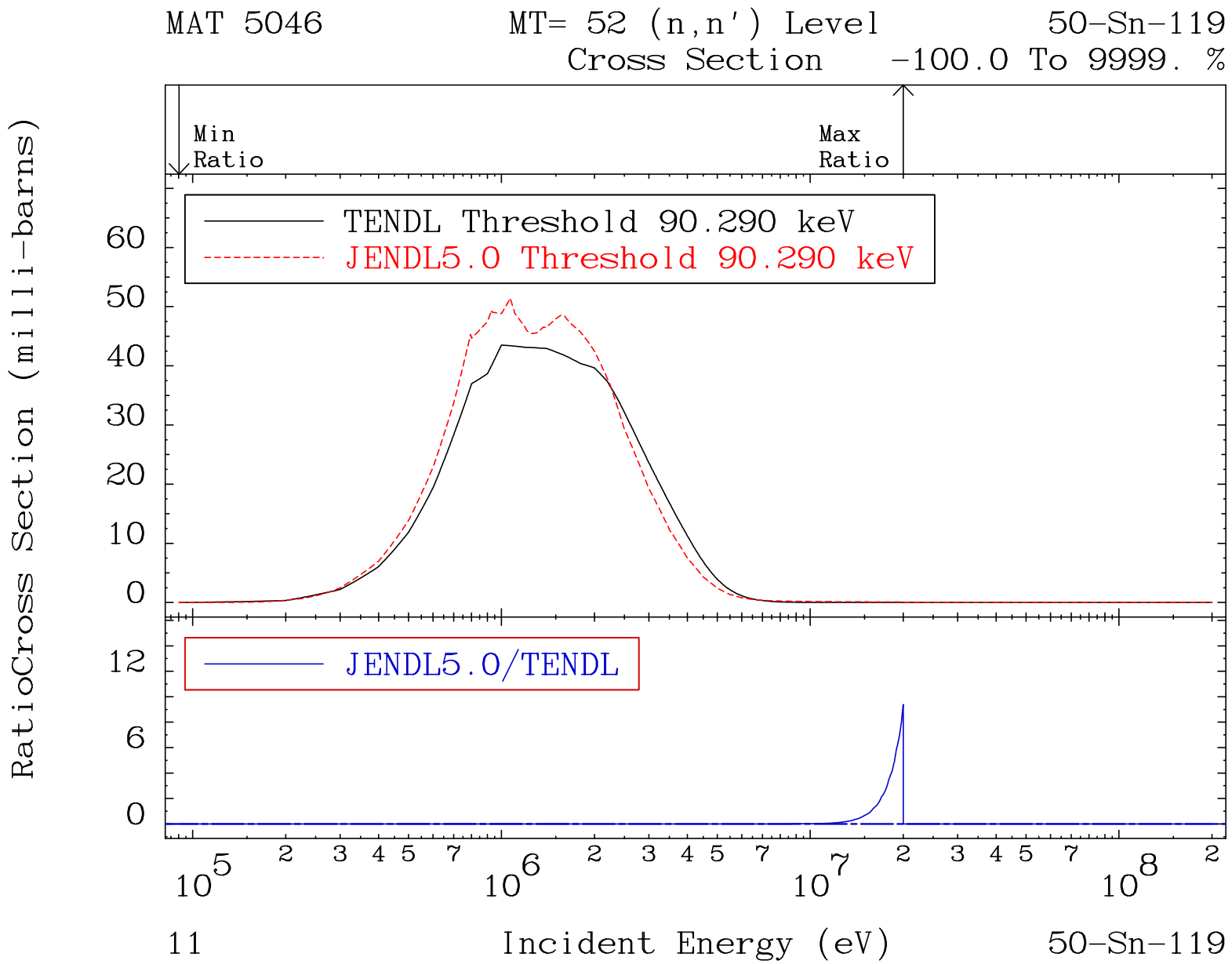

MAT 5046
(n,3n)
50-Sn-119
Cross Section
-100.0 To 8561. %
Max
Ratio
TENDL Threshold 15.944 MeV
JENDL5.0 Threshold 15.944 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
120
80
40
0
2
3
4
5
6
7
8
9
2
10^8
6
Incident Energy (eV)
50-Sn-119

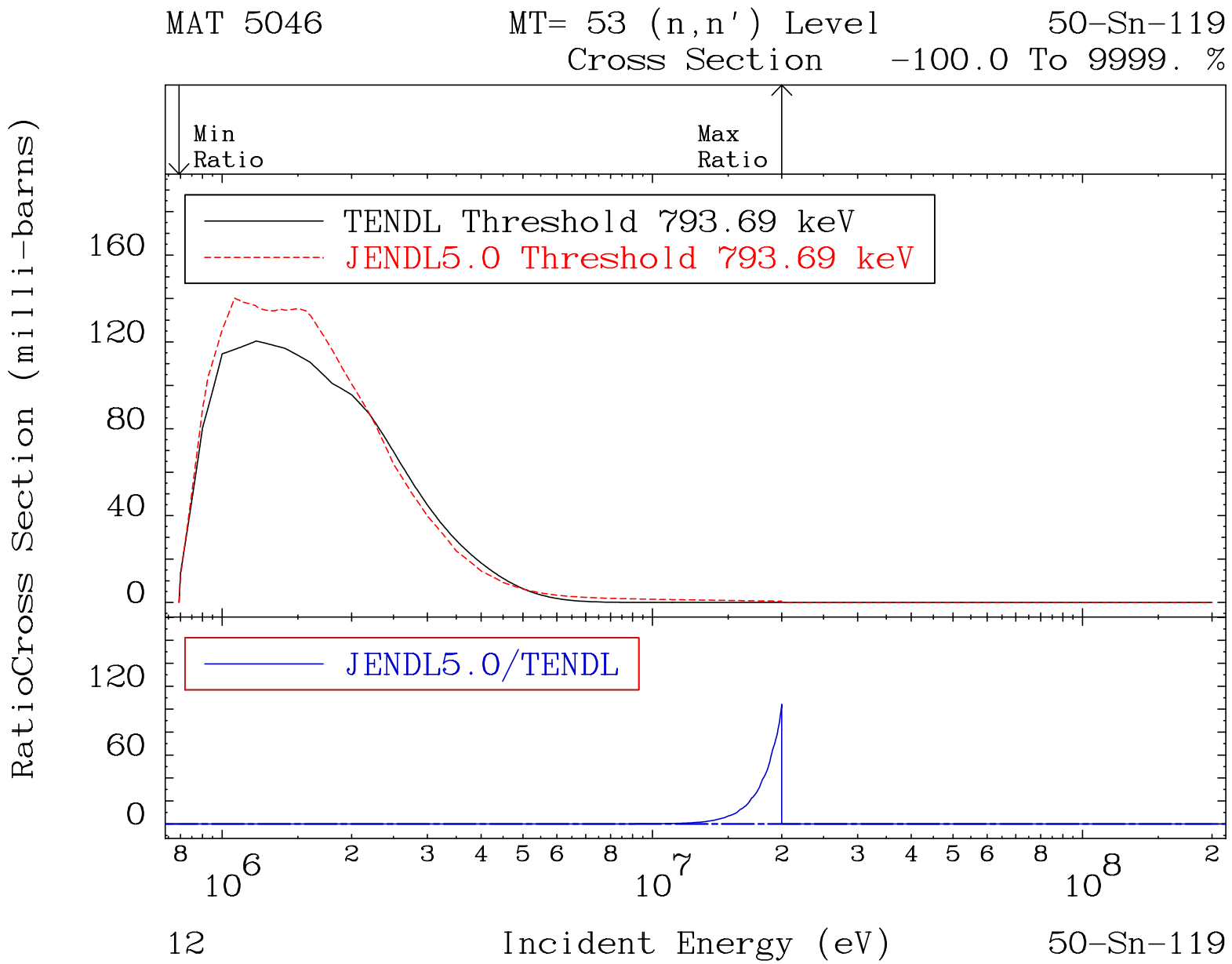

MAT 5046
(n,n') α
50-Sn-119
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.4428 MeV
JENDL5.0 Threshold 4.4401 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
50-Sn-119

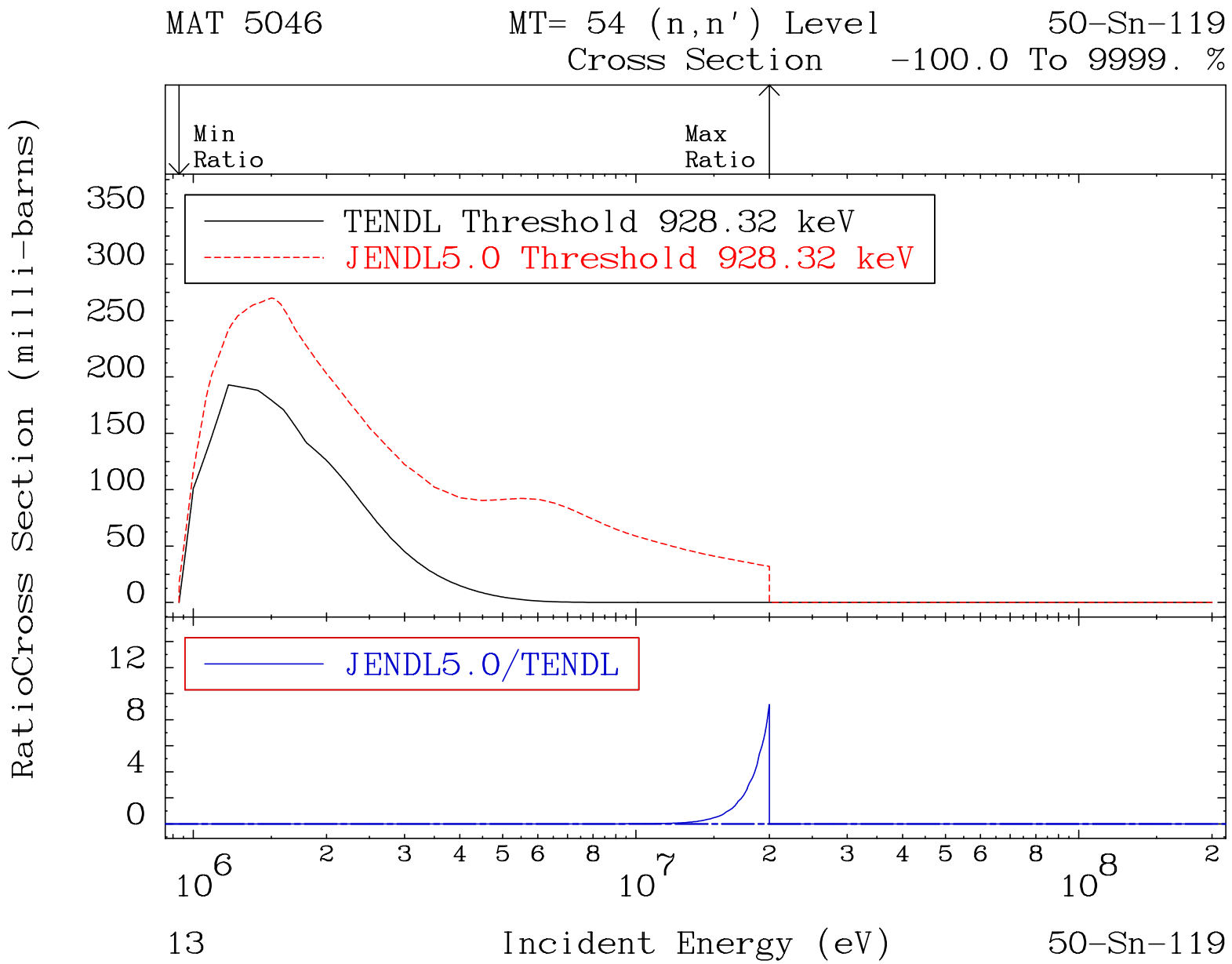

MAT 5046
(n,n') p
Cross Section
50-Sn-119
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.212 MeV
JENDL5.0 Threshold 10.213 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
0.8
0.4
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
Incident Energy (eV)
8
50-Sn-119

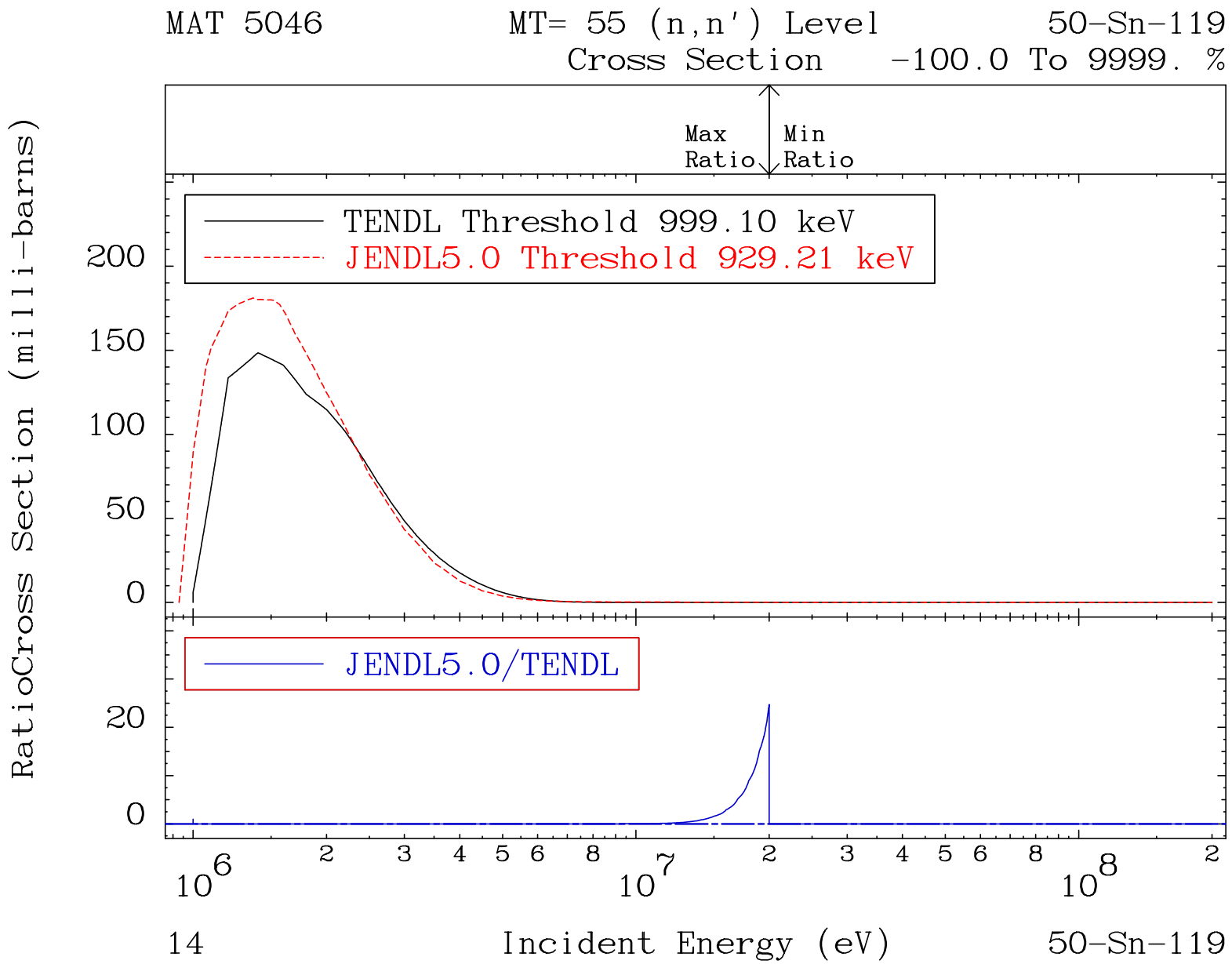

MAT 5046
(n,n') d
Cross Section
50-Sn-119
-100.0 To 141.5 %
Max
Ratio
TENDL Threshold 14.379 MeV
JENDL5.0 Threshold 14.379 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
50-Sn-119

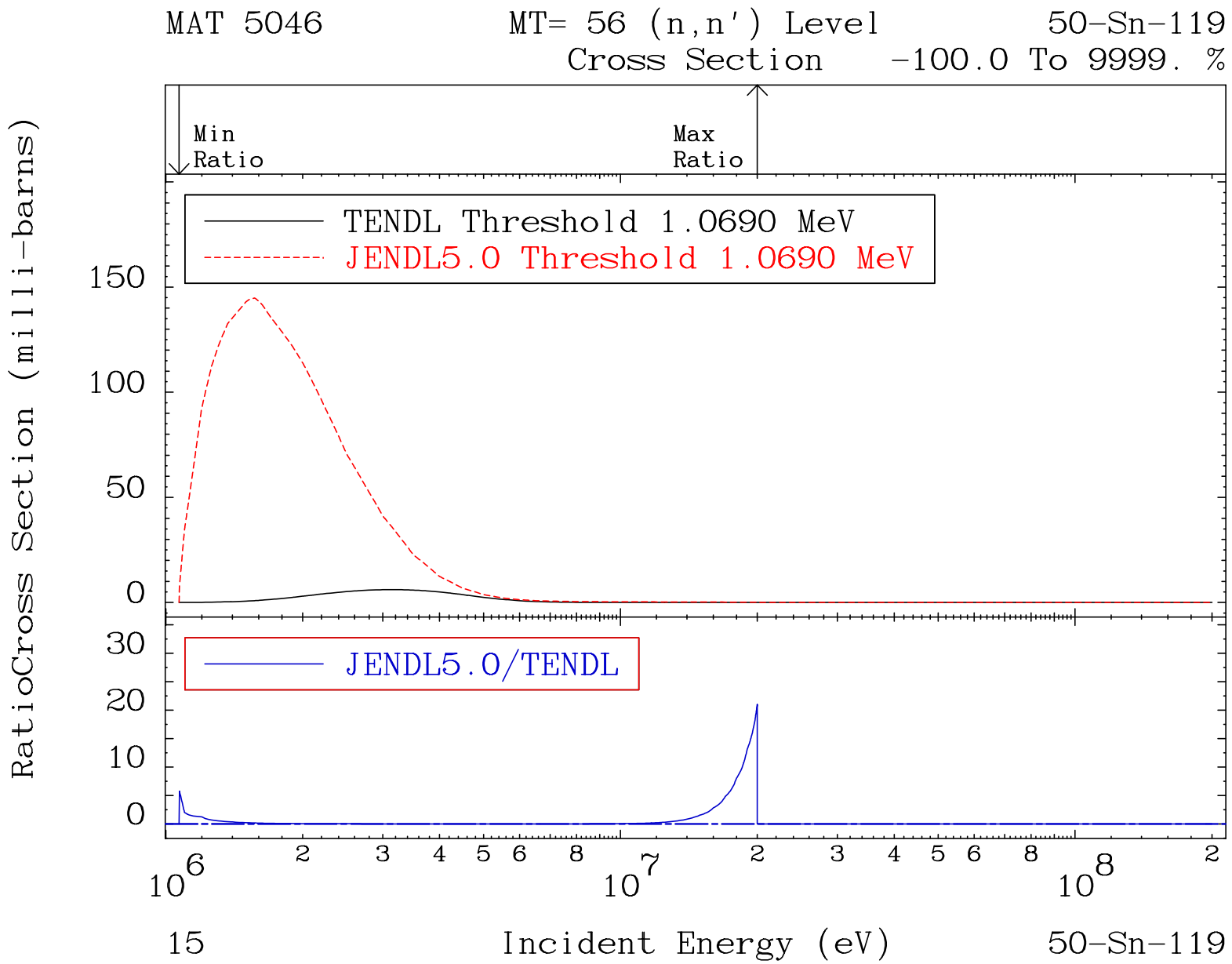

MAT 5046
MT= 51 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 24.073 keV
JENDL5.0 Threshold 24.073 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.8
0.4
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
10
Incident Energy (eV)
50-Sn-119

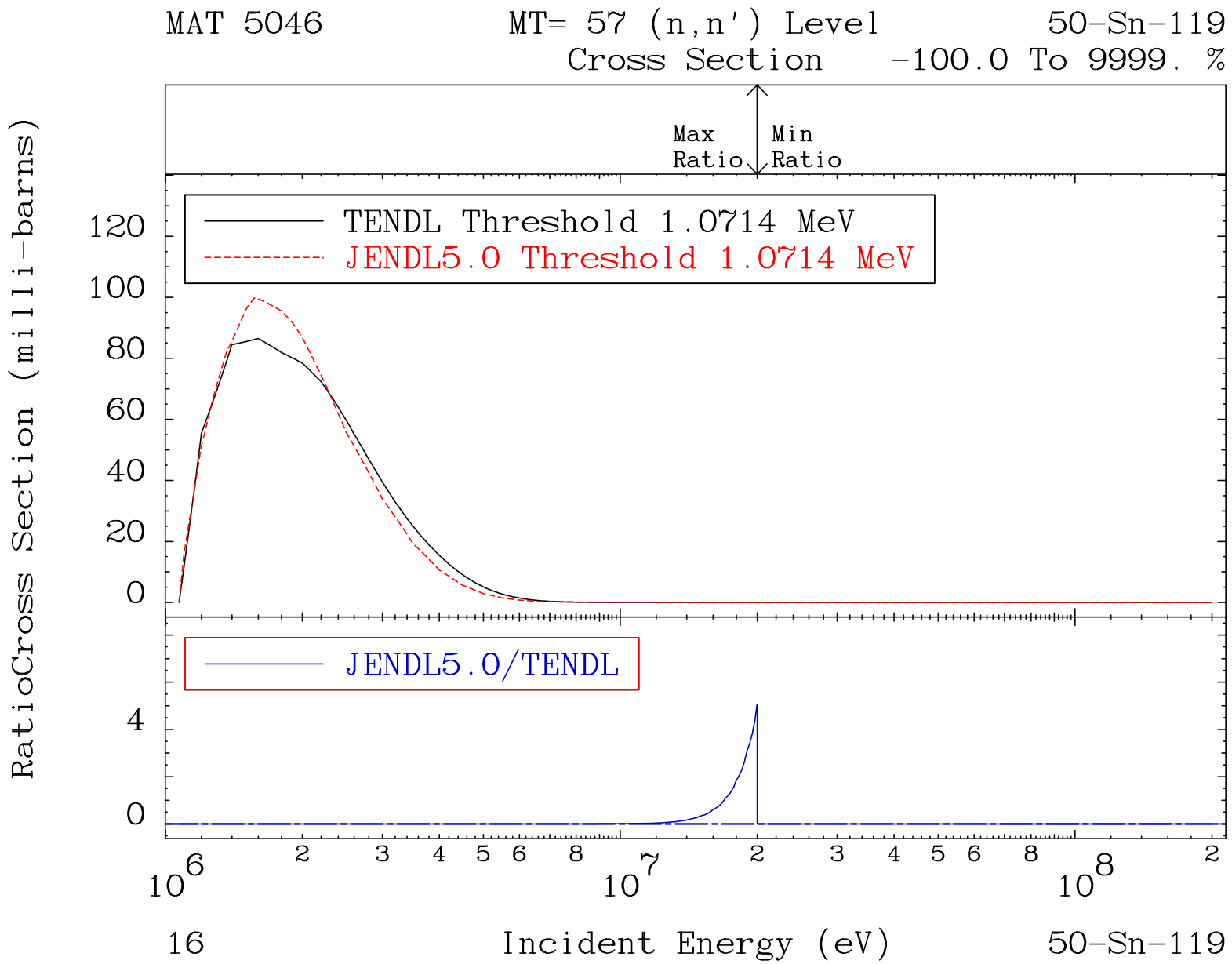

MAT 5046
MT= 52 (n,n') Level
50-Sn-119
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 90.290 keV
JENDL5.0 Threshold 90.290 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
50-Sn-119

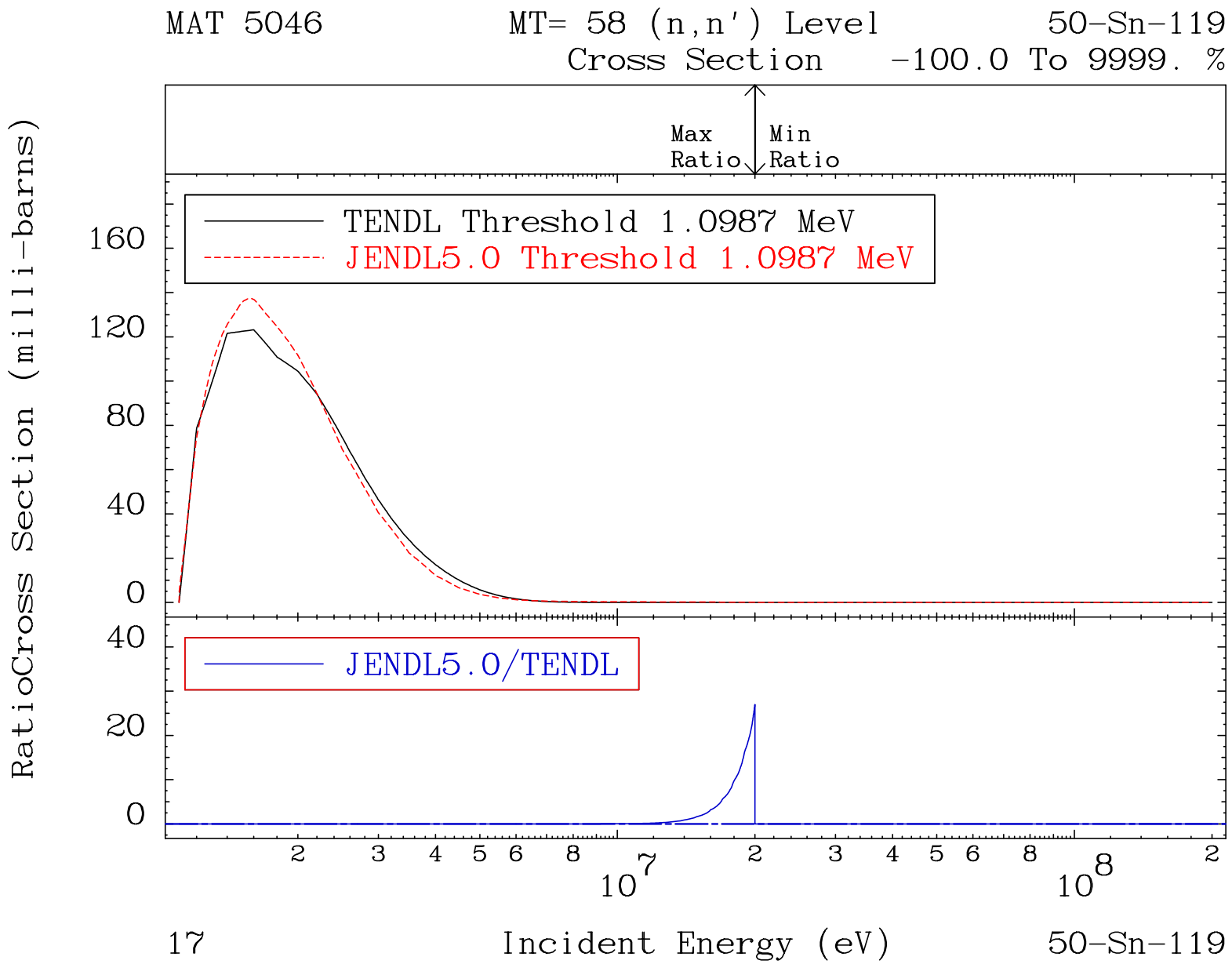

MAT 5046
MT= 53 (n,n') Level
50-Sn-119
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 793.69 keV
JENDL5.0 Threshold 793.69 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
120
60
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
12
Incident Energy (eV)
50-Sn-119

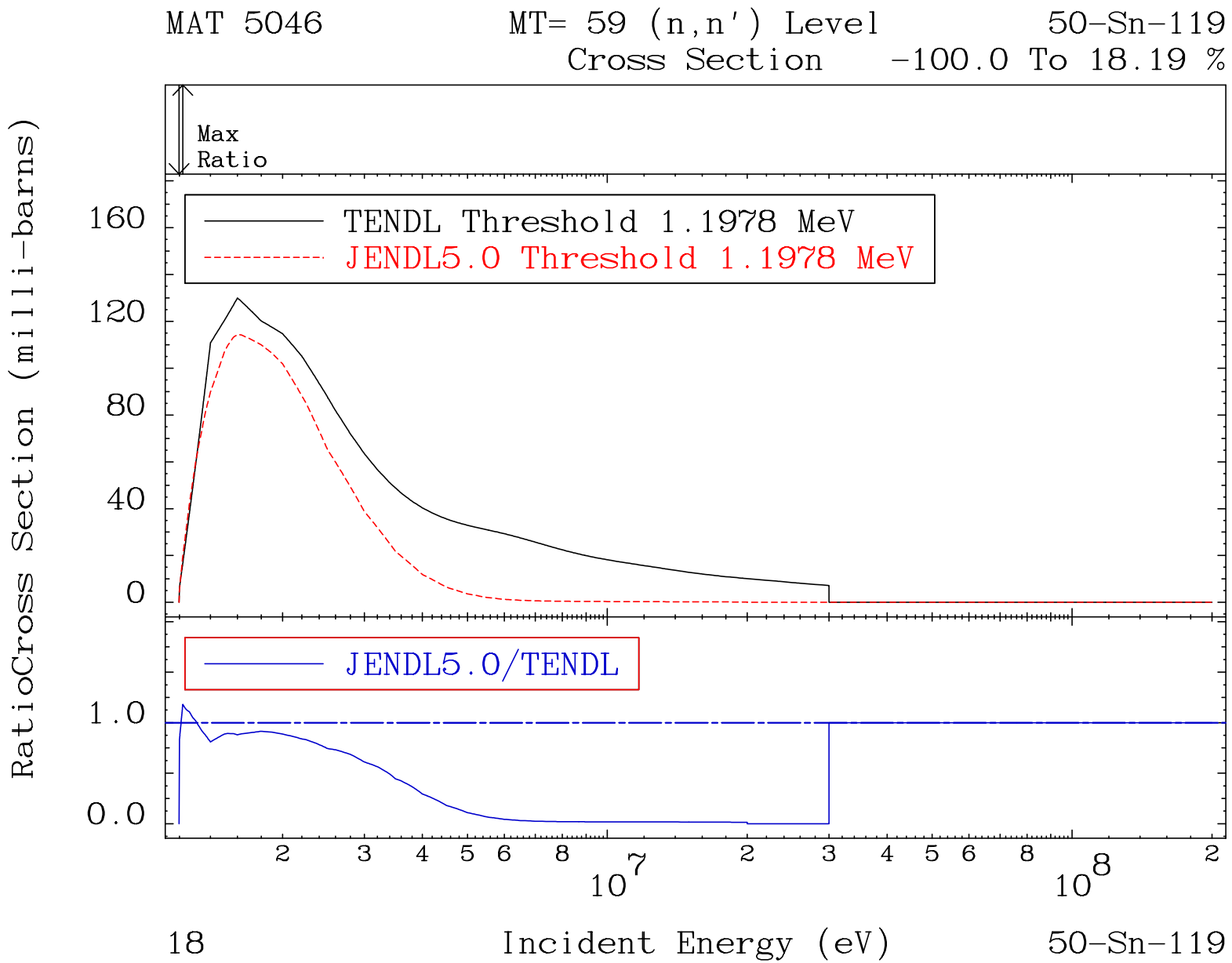

MAT 5046
MT= 54 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 928.32 keV
JENDL5.0 Threshold 928.32 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
12
8
4
0
2 3 4 5 6 8
10^6
10^7
10^8
13
Incident Energy (eV)
50-Sn-119

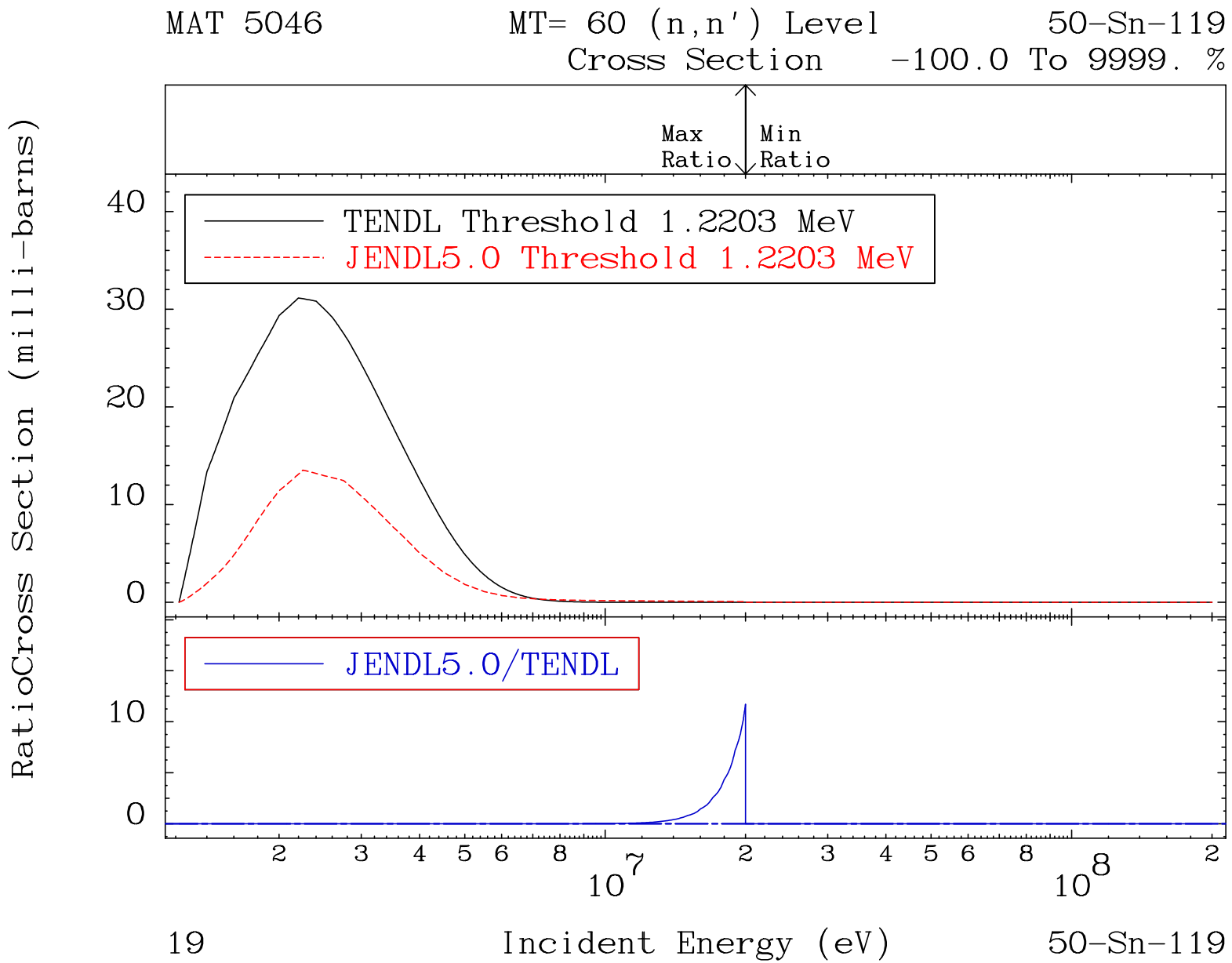

MAT 5046
MT= 55 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 999.10 keV
JENDL5.0 Threshold 929.21 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
20
0
10^6
10^7
10^8
2 3 4 5 6 8
Incident Energy (eV)
14
50-Sn-119

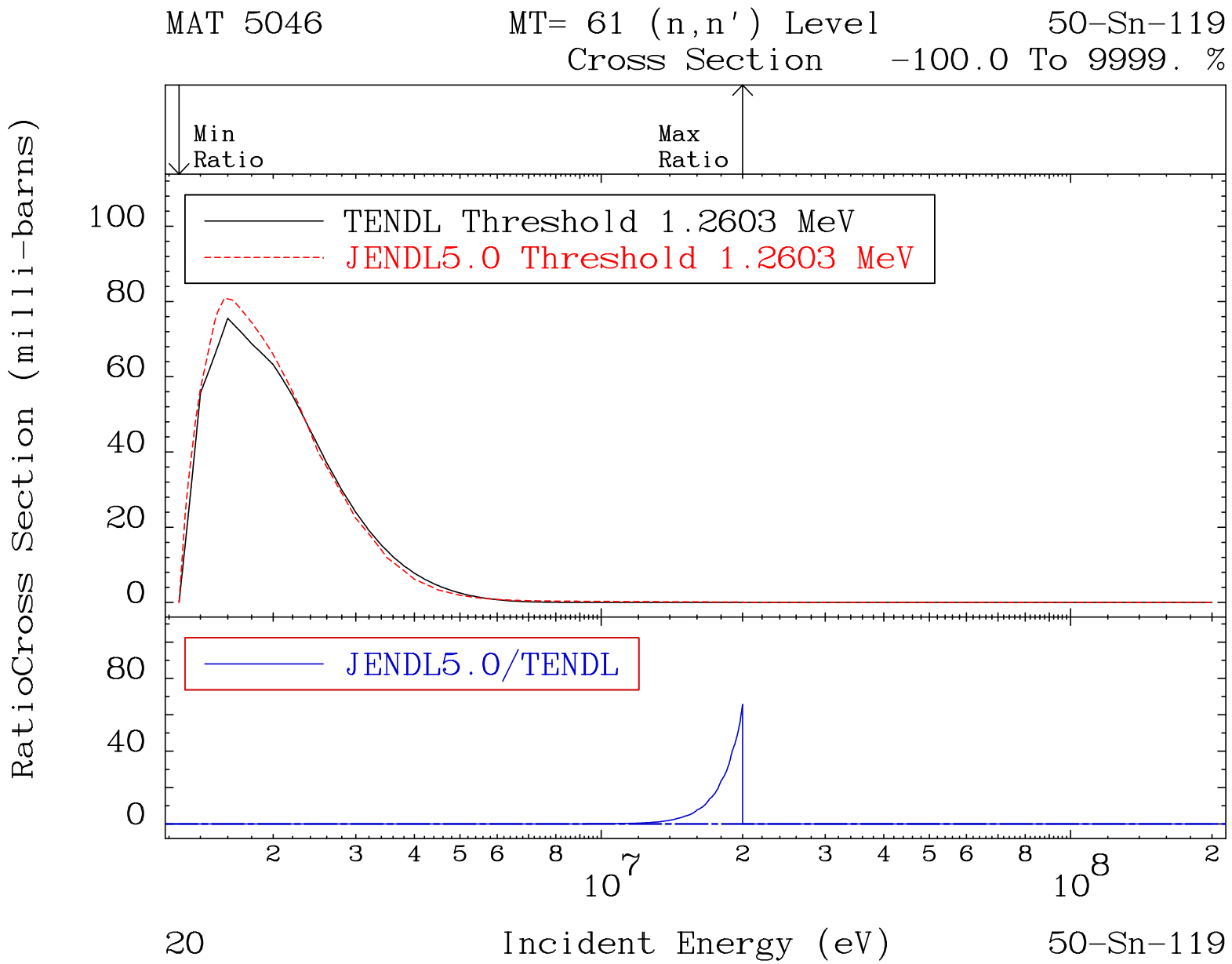

MAT 5046
MT= 56 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0690 MeV
JENDL5.0 Threshold 1.0690 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
30
20
10
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
15
Incident Energy (eV)
50-Sn-119

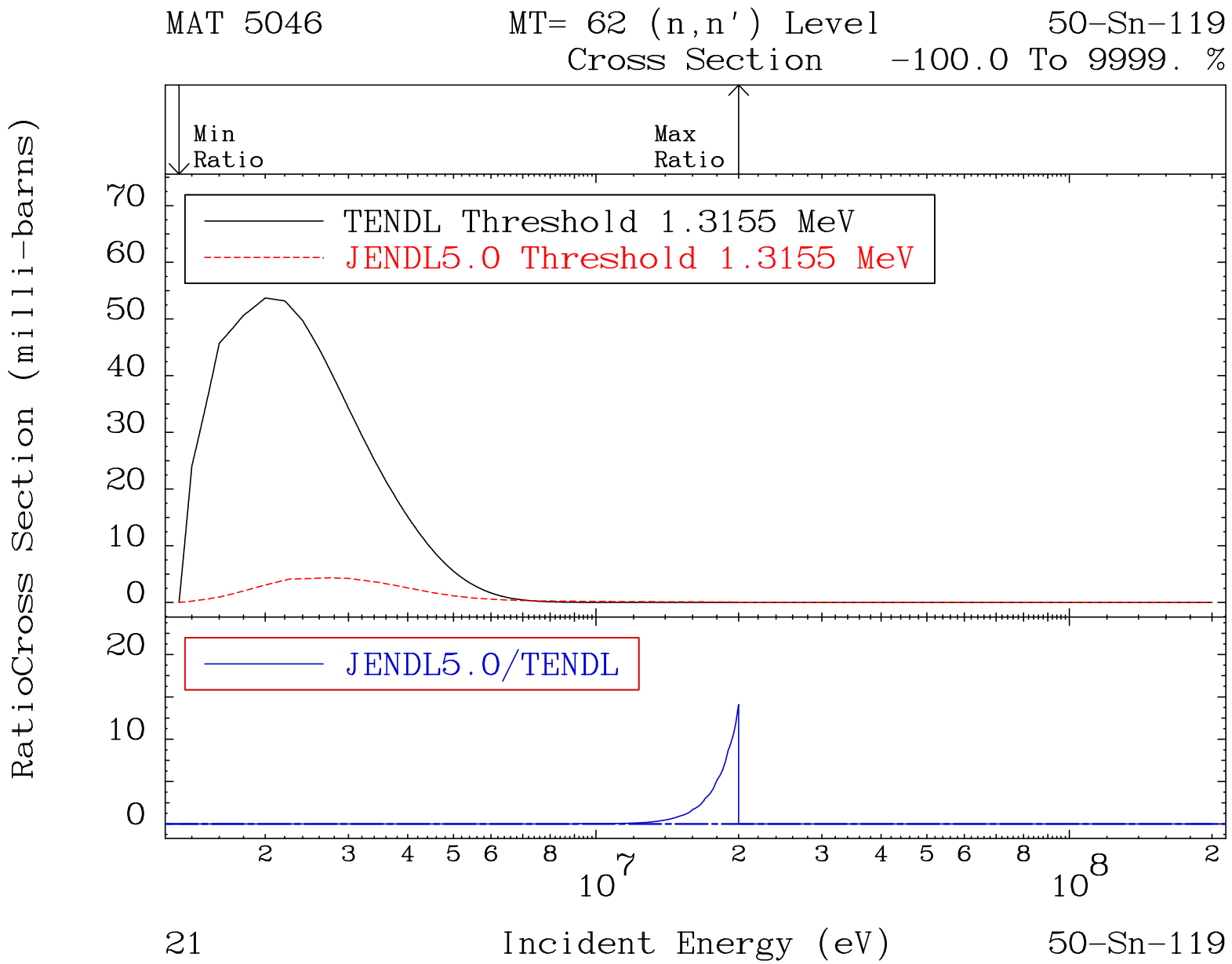

MAT 5046
MT= 57 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0714 MeV
JENDL5.0 Threshold 1.0714 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
16
Incident Energy (eV)
50-Sn-119

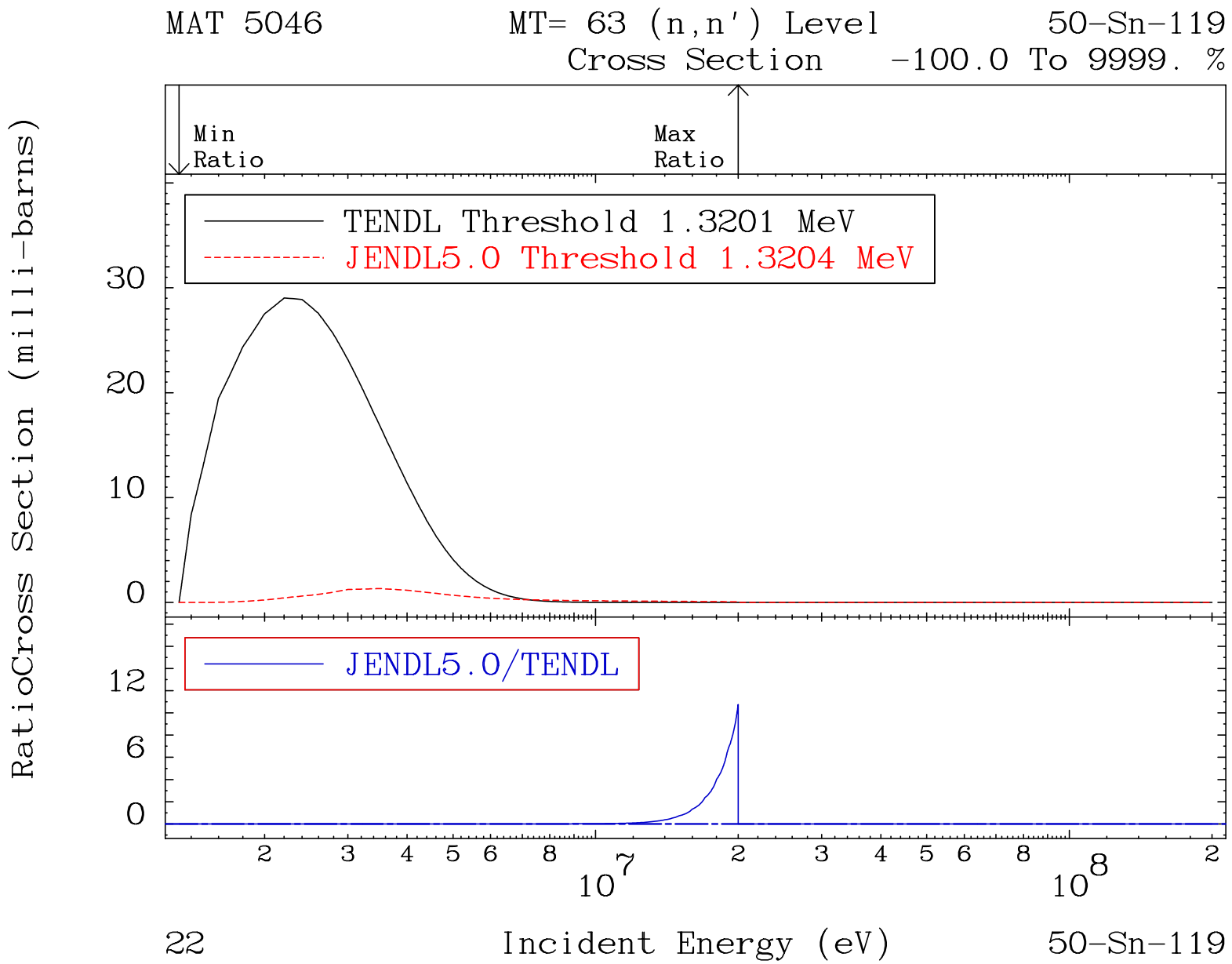

MAT 5046
MT= 58 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0987 MeV
JENDL5.0 Threshold 1.0987 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
40
20
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
50-Sn-119

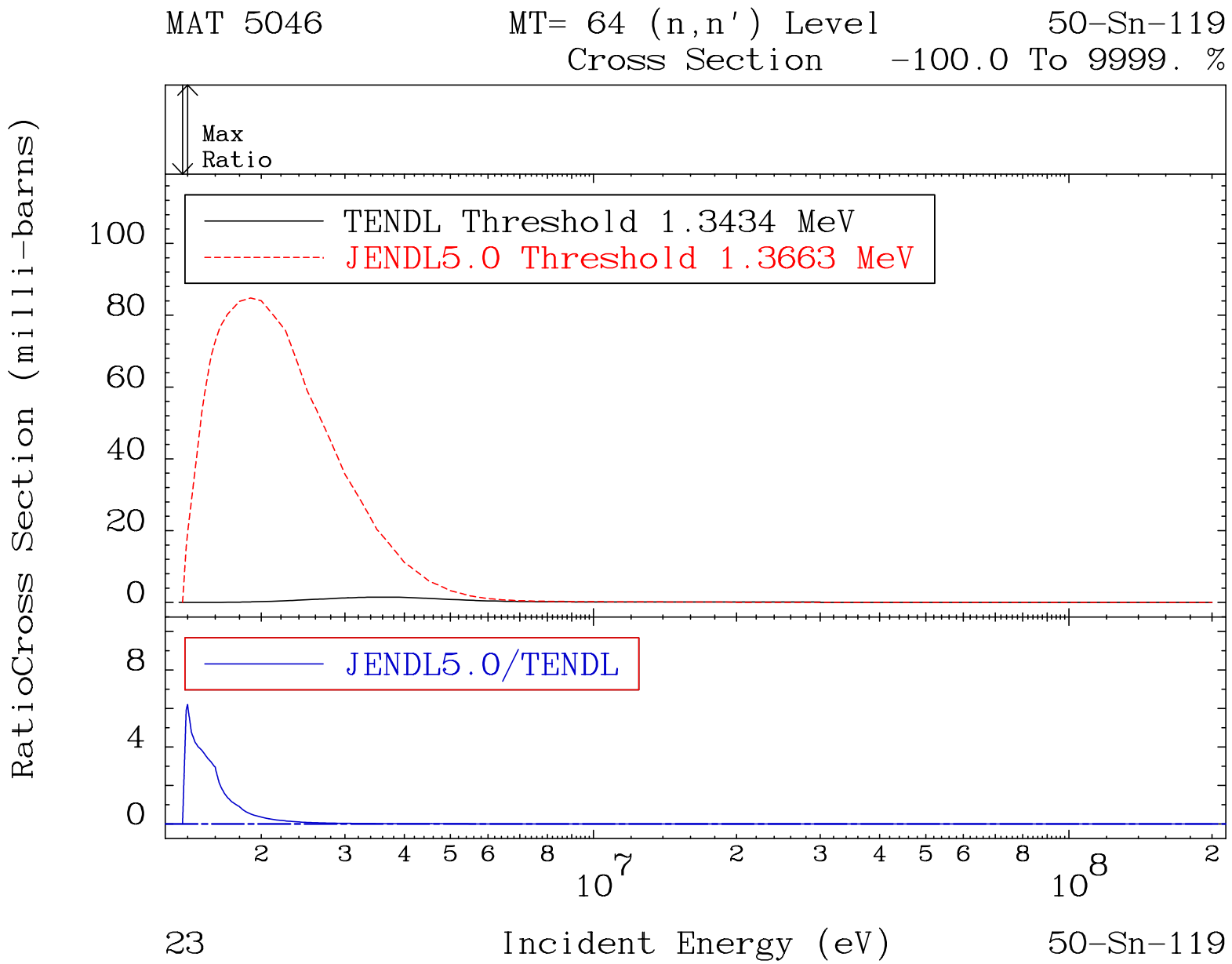

MAT 5046
MT= 59 (n,n') Level
50-Sn-119
Cross Section
-100.0 To 18.19 %
Max
Ratio
TENDL Threshold 1.1978 MeV
JENDL5.0 Threshold 1.1978 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
18
Incident Energy (eV)
50-Sn-119

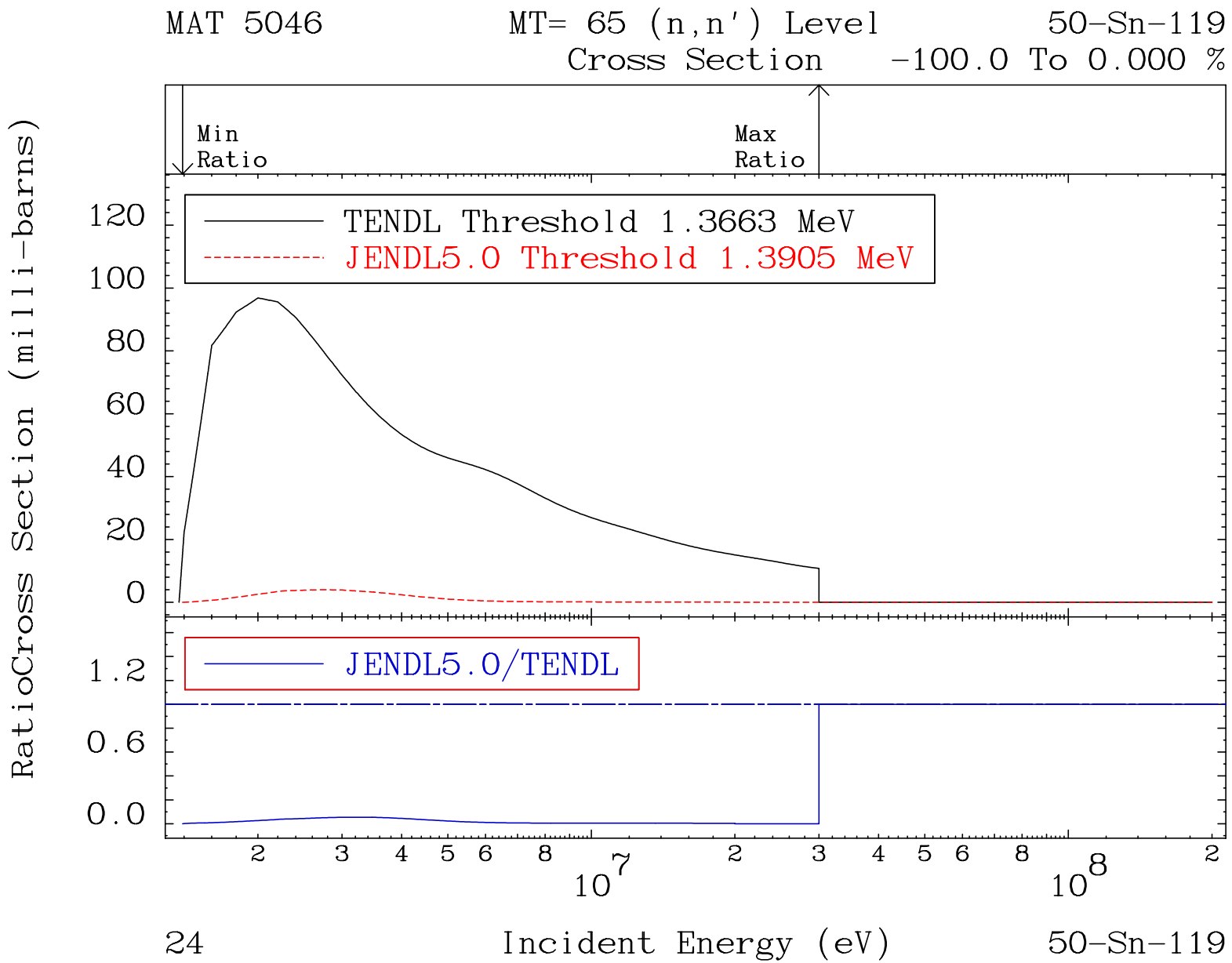

MAT 5046
MT= 60 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2203 MeV
JENDL5.0 Threshold 1.2203 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
50-Sn-119

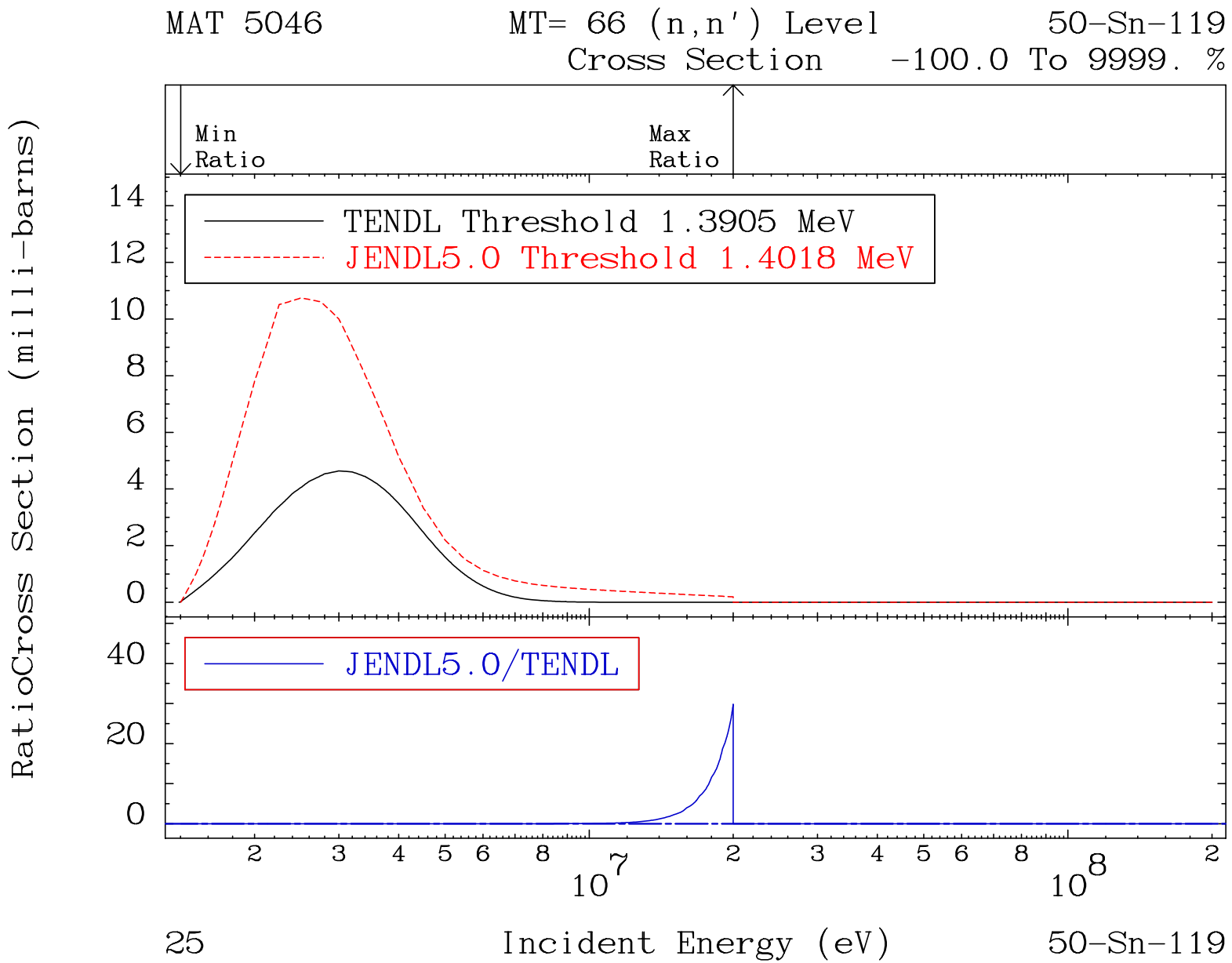

MAT 5046
MT= 61 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2603 MeV
JENDL5.0 Threshold 1.2603 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
80
40
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
50-Sn-119

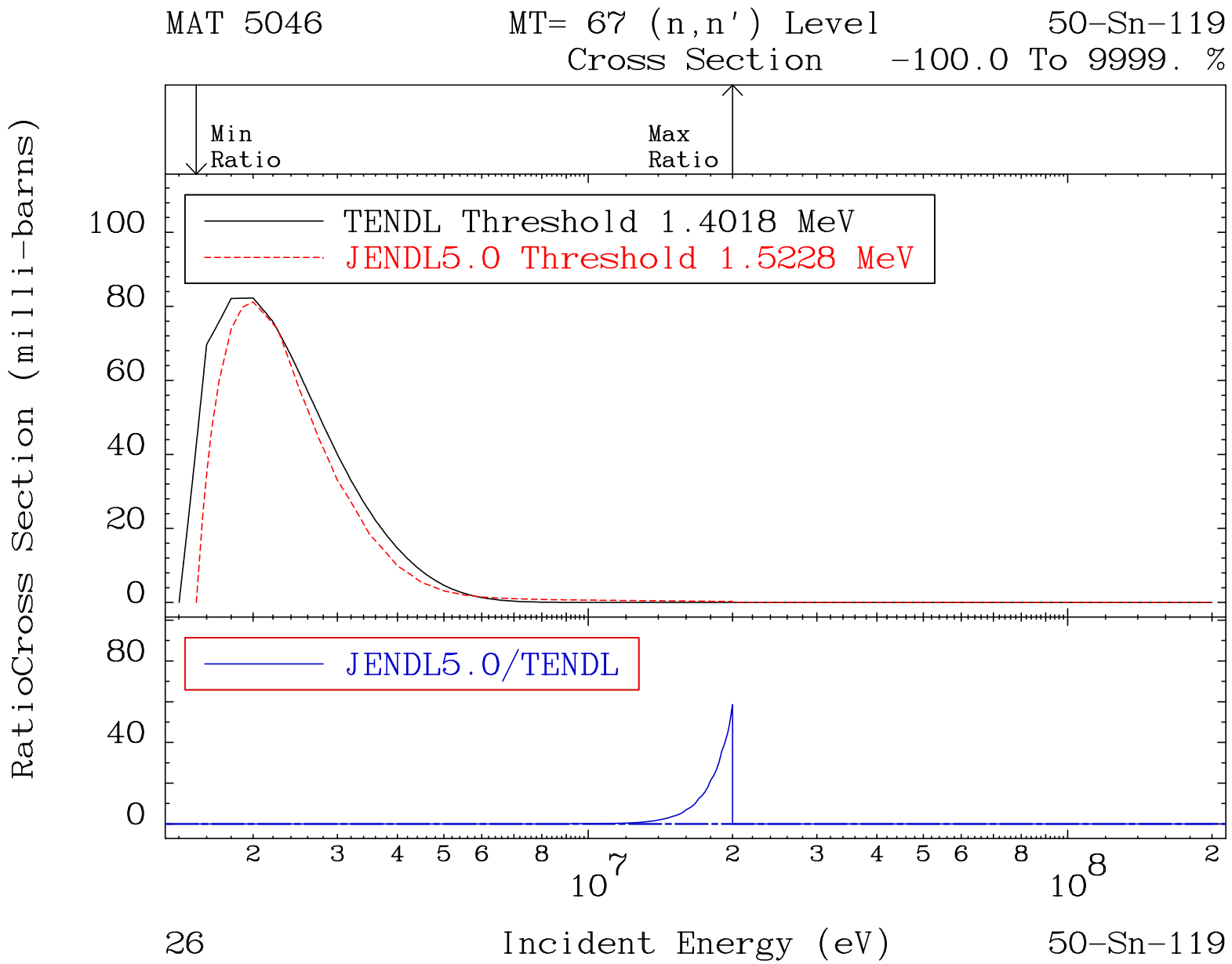

MAT 5046
MT= 62 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3155 MeV
JENDL5.0 Threshold 1.3155 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
20
10
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
50-Sn-119

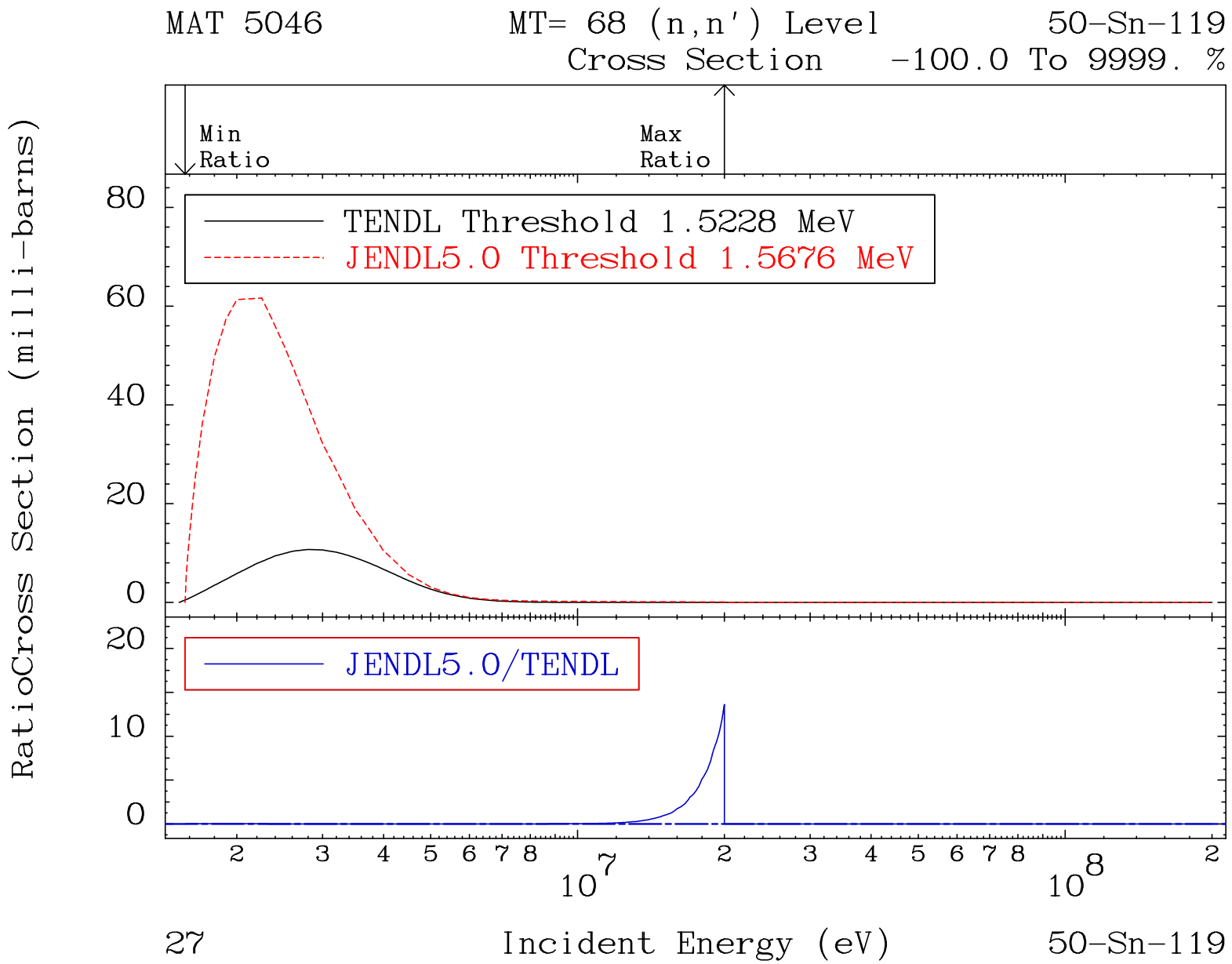

MAT 5046
MT= 63 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3201 MeV
JENDL5.0 Threshold 1.3204 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
12
6
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
50-Sn-119

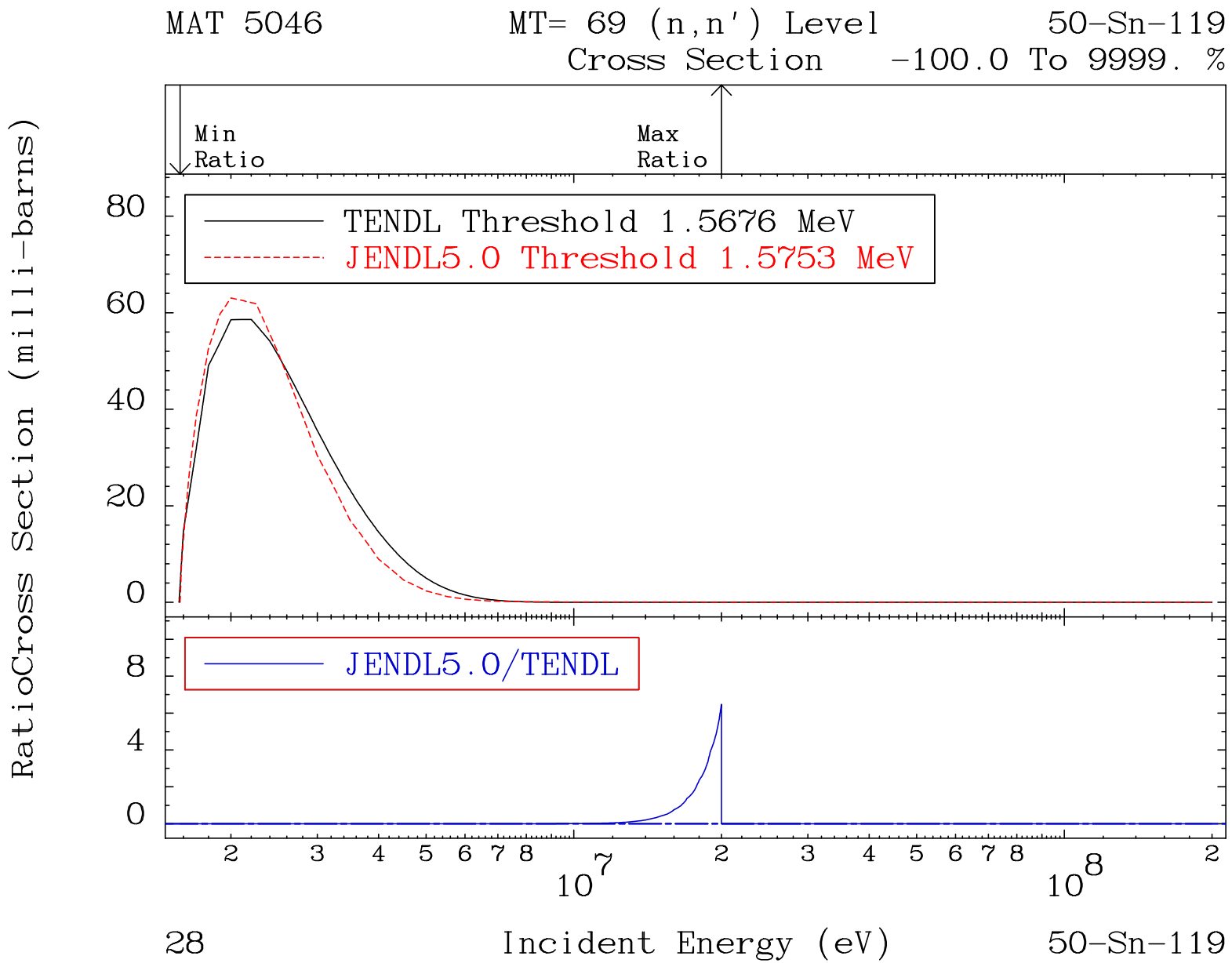

MAT 5046
MT= 64 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 1.3434 MeV
JENDL5.0 Threshold 1.3663 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
23
Incident Energy (eV)
50-Sn-119

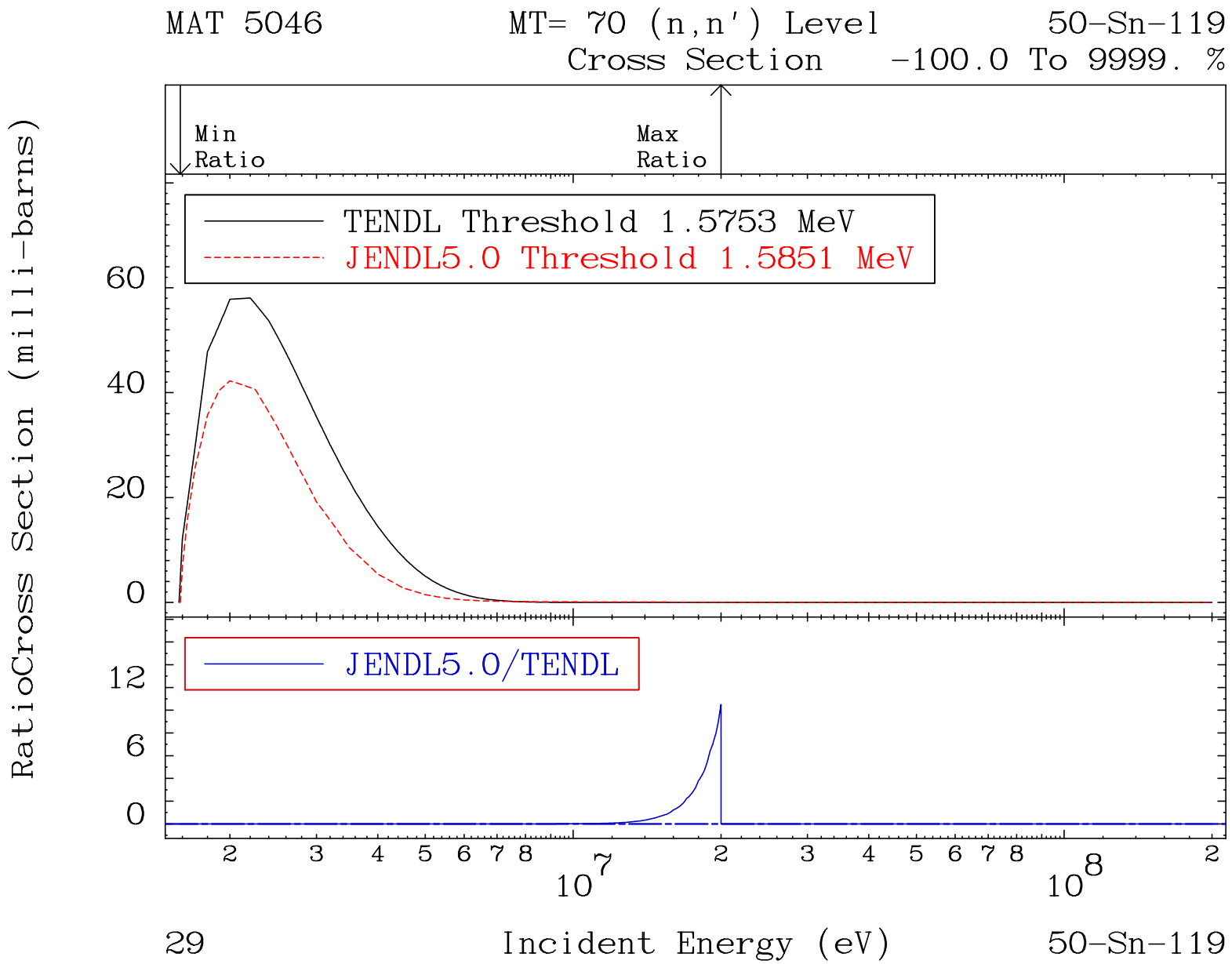

MAT 5046
MT= 65 (n,n') Level
50-Sn-119
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.3663 MeV
JENDL5.0 Threshold 1.3905 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
50-Sn-119

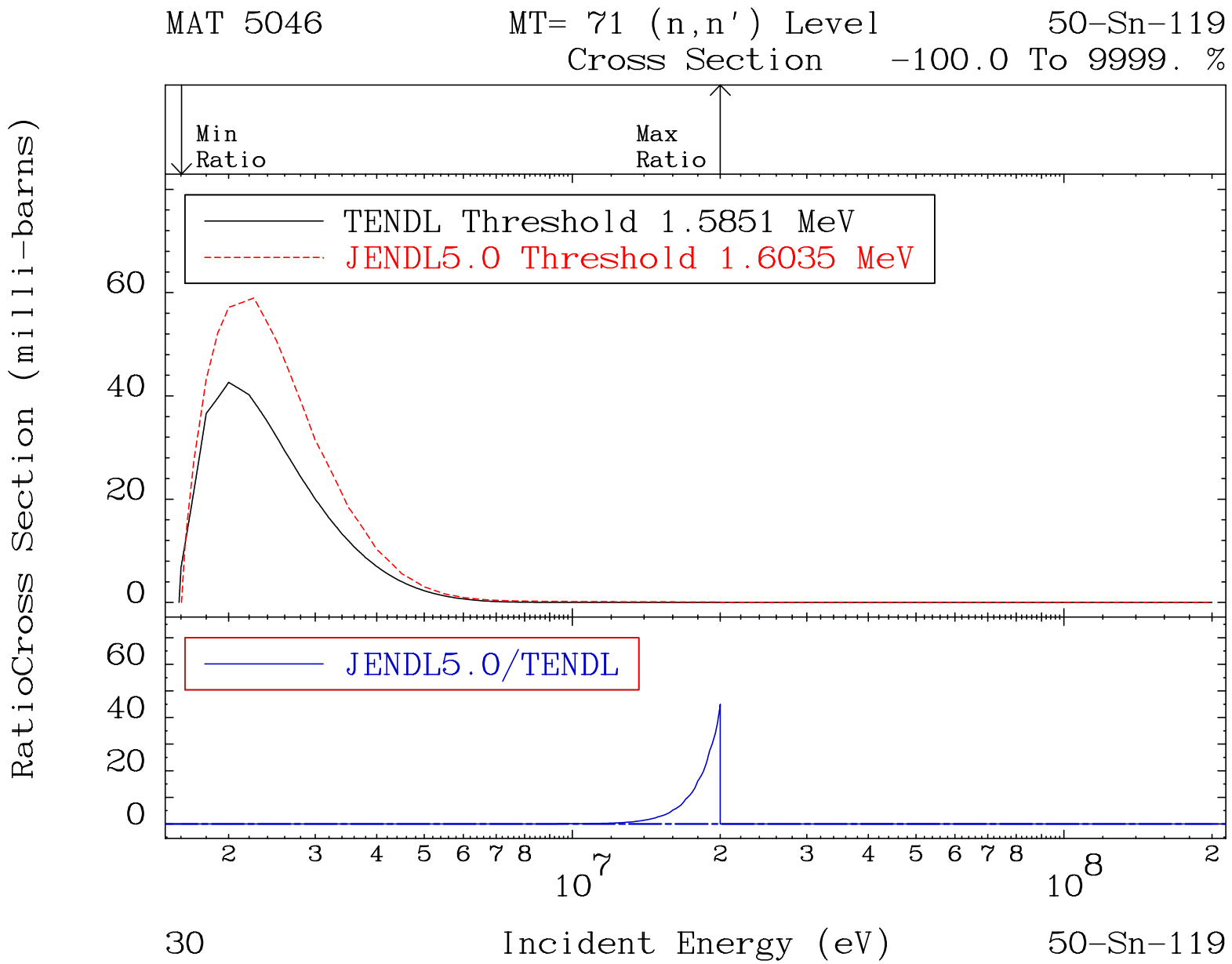

MAT 5046
MT= 66 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3905 MeV
JENDL5.0 Threshold 1.4018 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
50-Sn-119

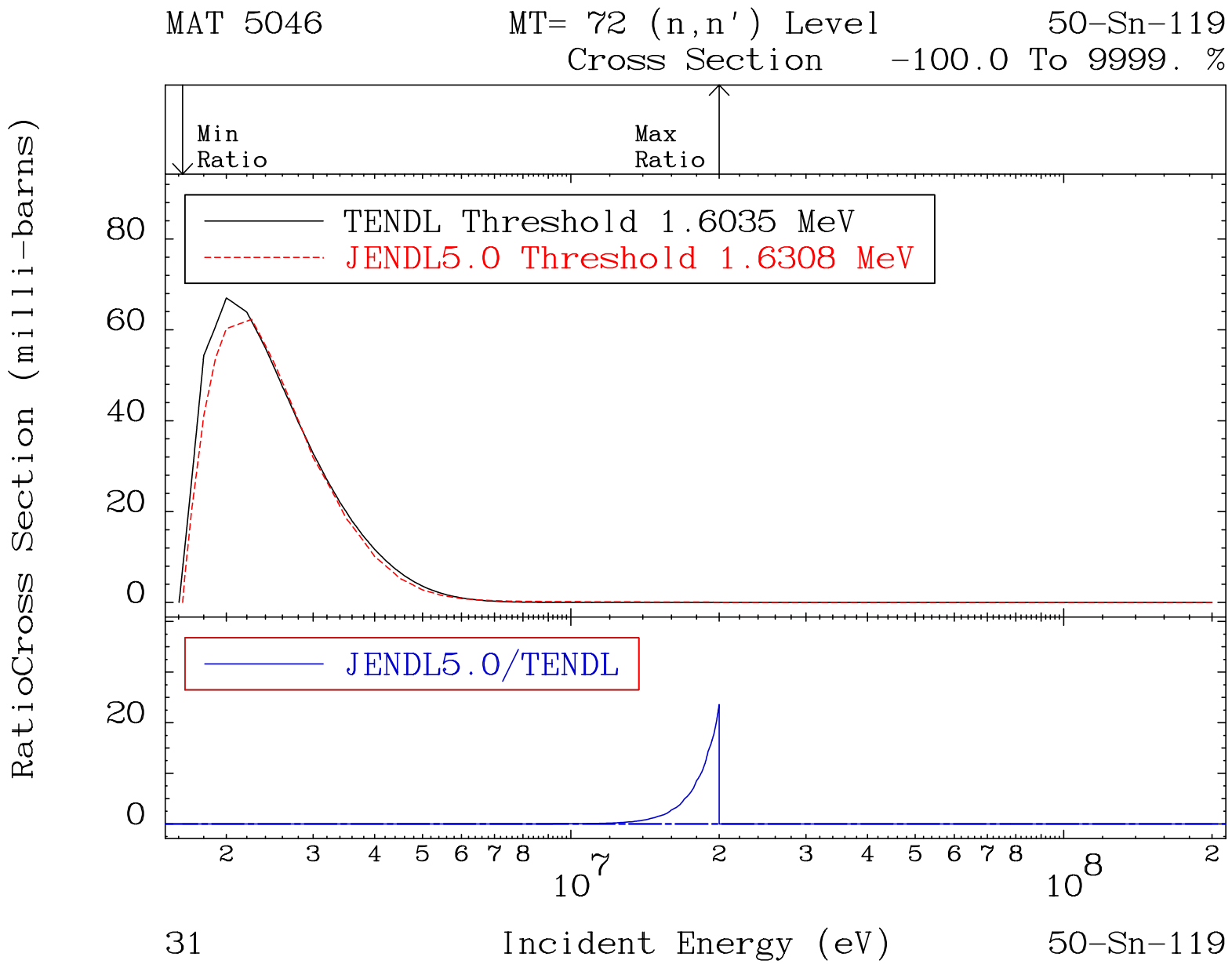

MAT 5046
MT= 67 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4018 MeV
JENDL5.0 Threshold 1.5228 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
80
40
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
26
Incident Energy (eV)
50-Sn-119

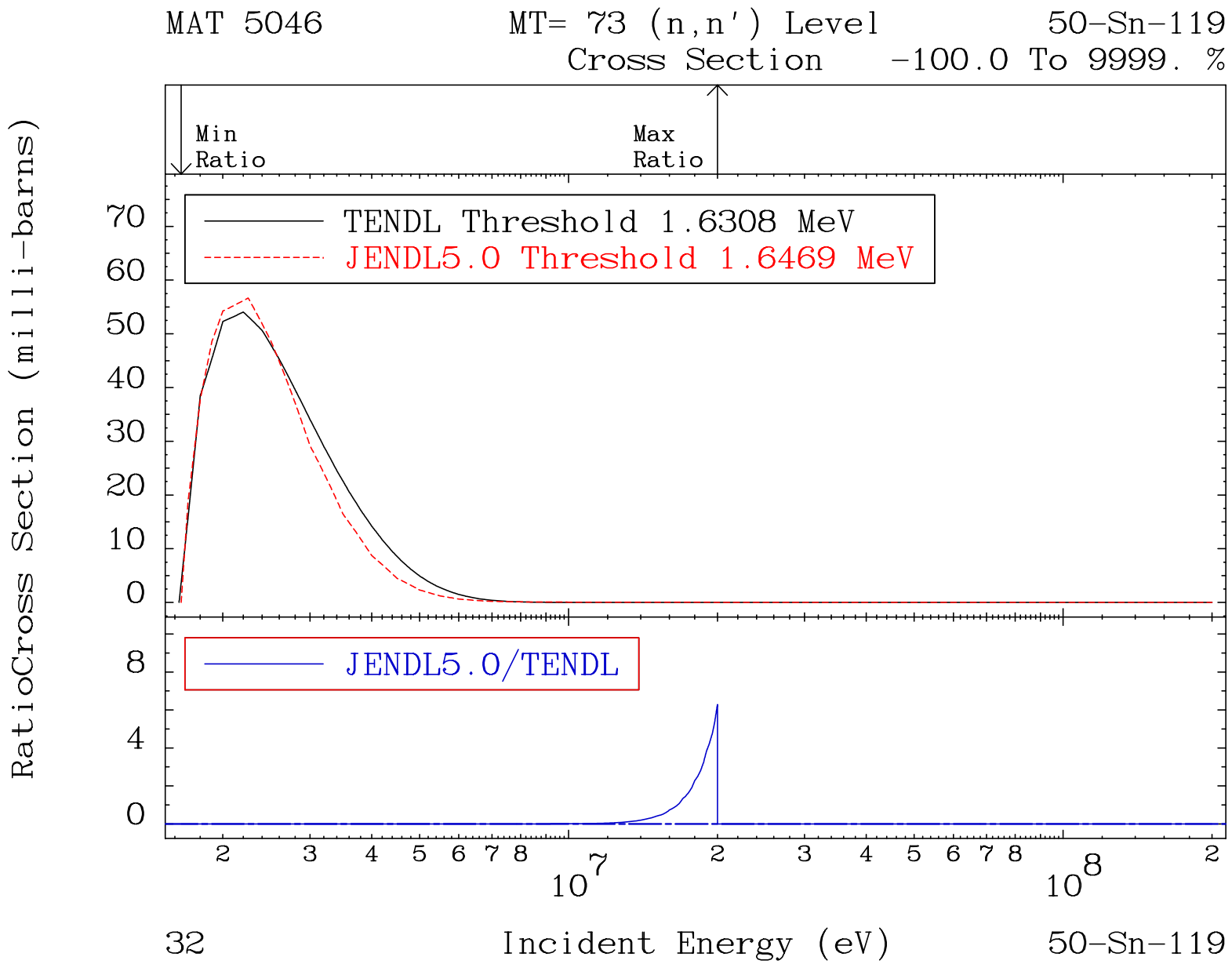

MAT 5046
MT= 68 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5228 MeV
JENDL5.0 Threshold 1.5676 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
20
10
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
50-Sn-119

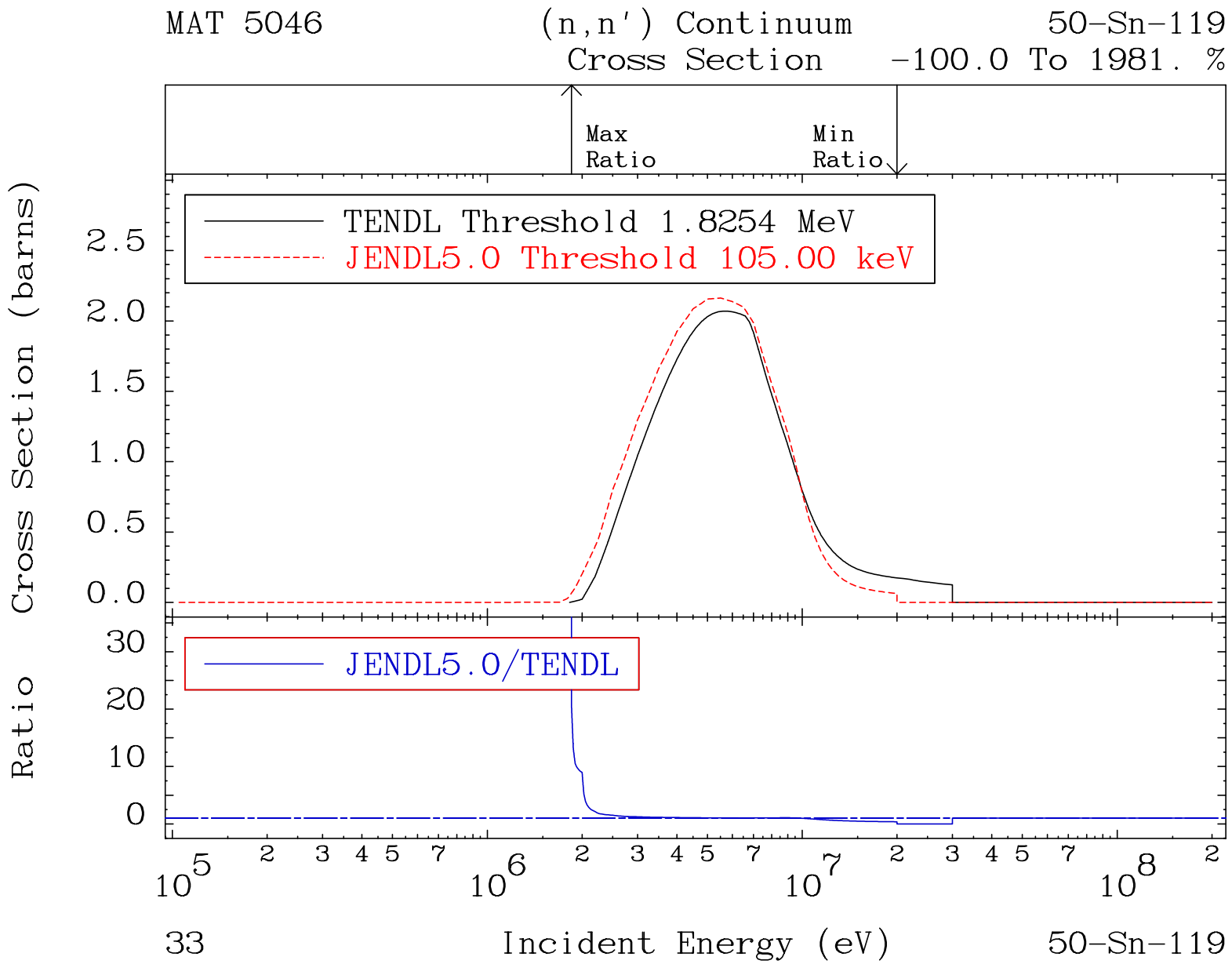

MAT 5046
MT= 69 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5676 MeV
JENDL5.0 Threshold 1.5753 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
50-Sn-119

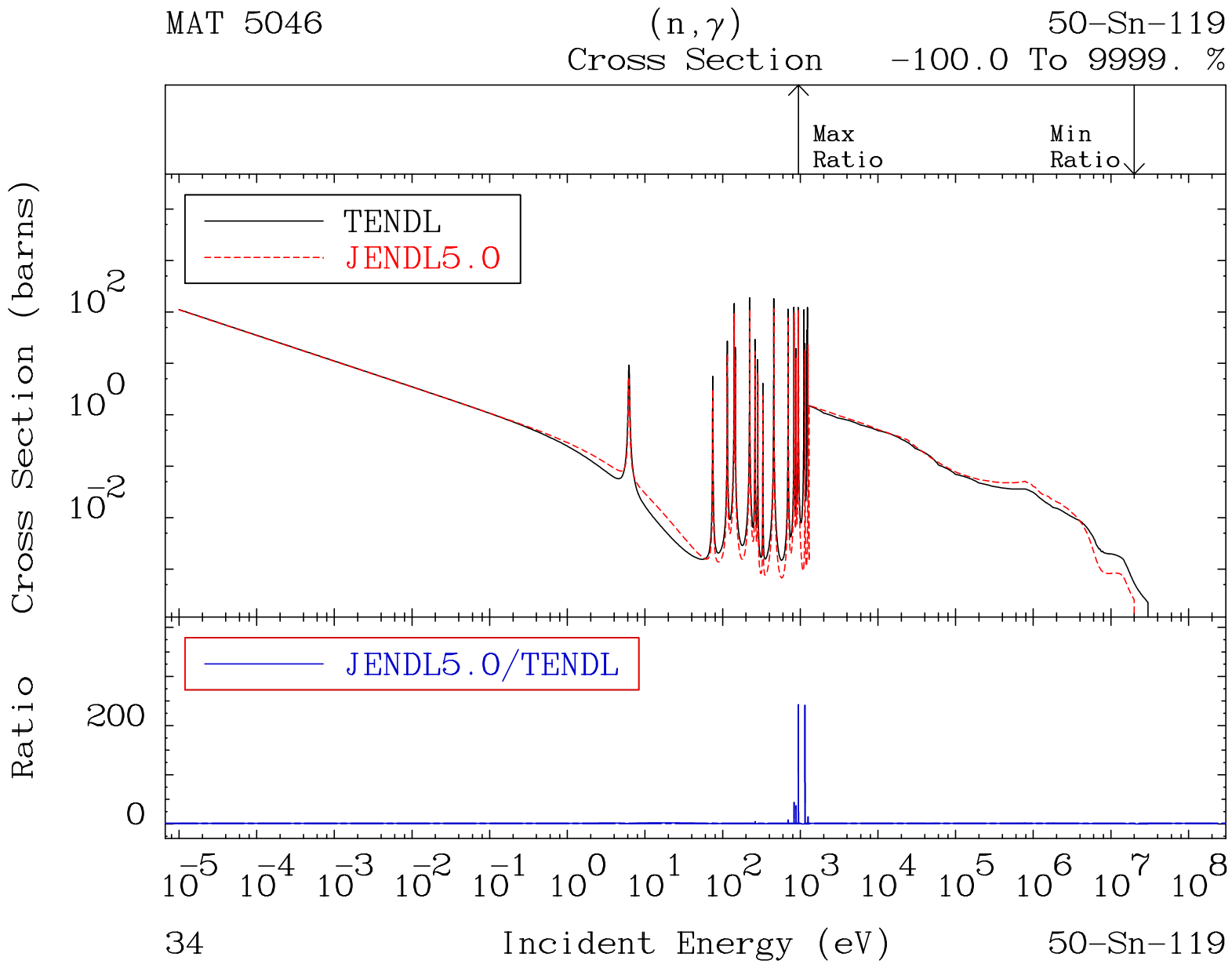

MAT 5046
MT= 70 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5753 MeV
JENDL5.0 Threshold 1.5851 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
12
6
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
50-Sn-119

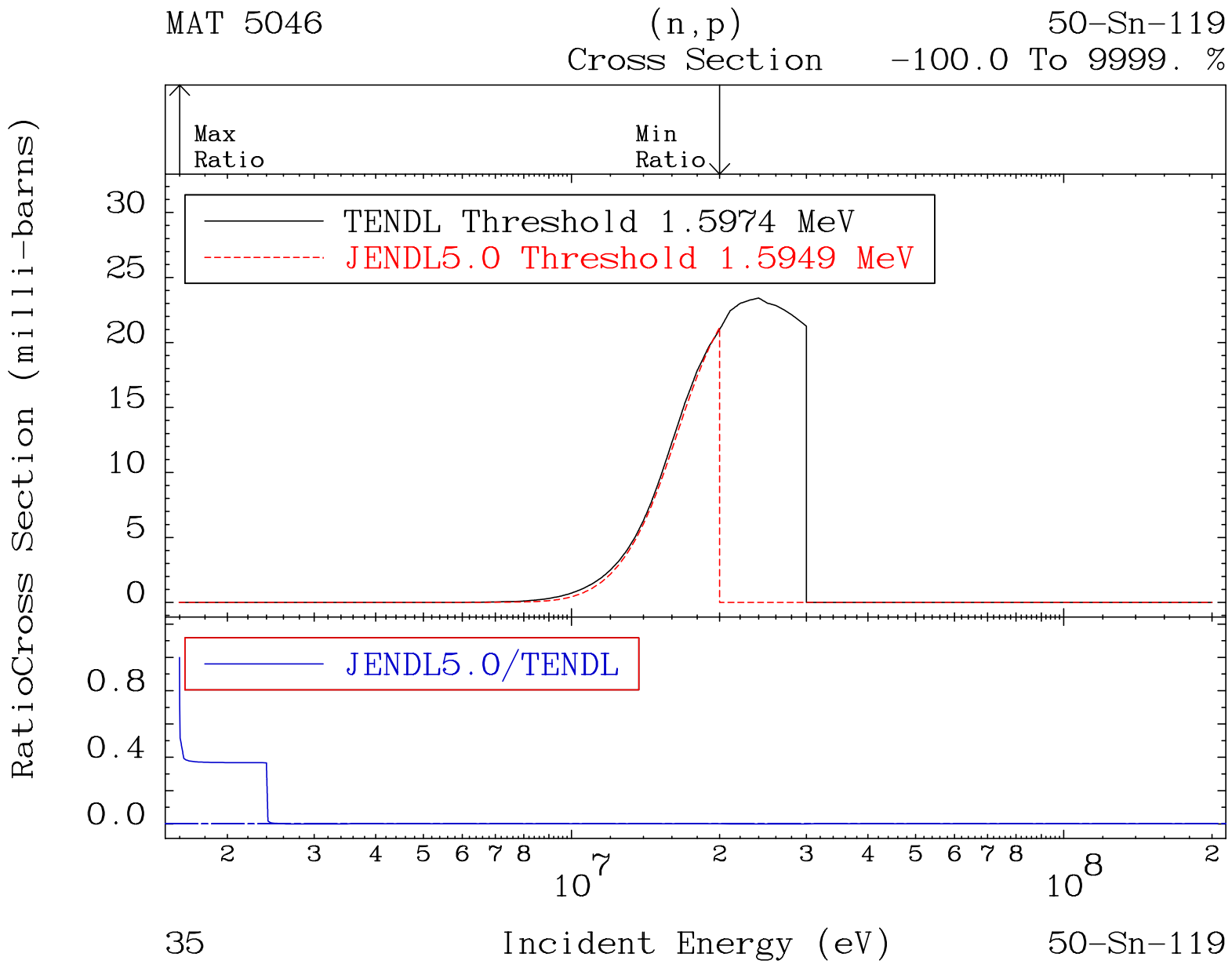

MAT 5046
MT= 71 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5851 MeV
JENDL5.0 Threshold 1.6035 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
50-Sn-119

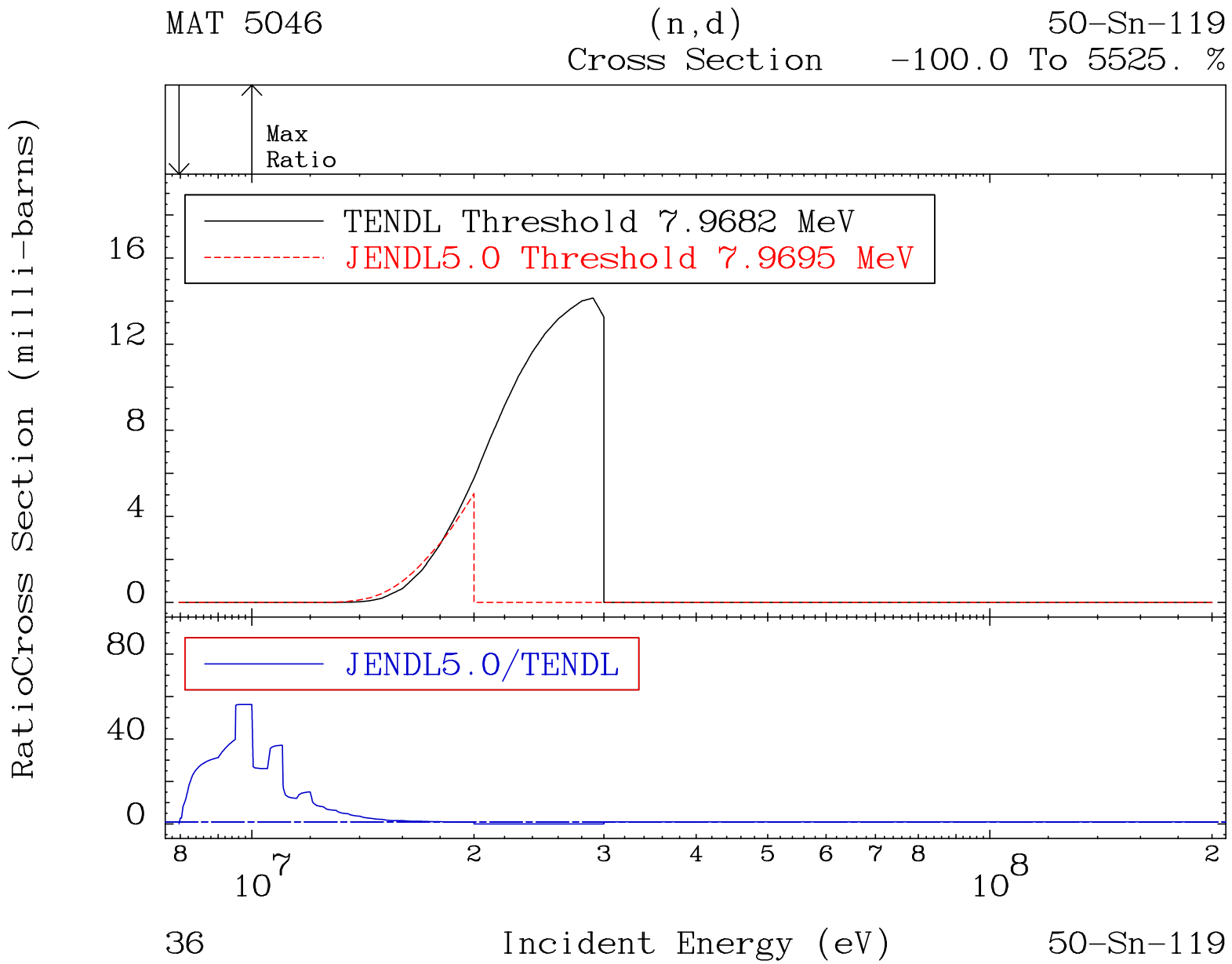

MAT 5046
MT= 72 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6035 MeV
JENDL5.0 Threshold 1.6308 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
50-Sn-119

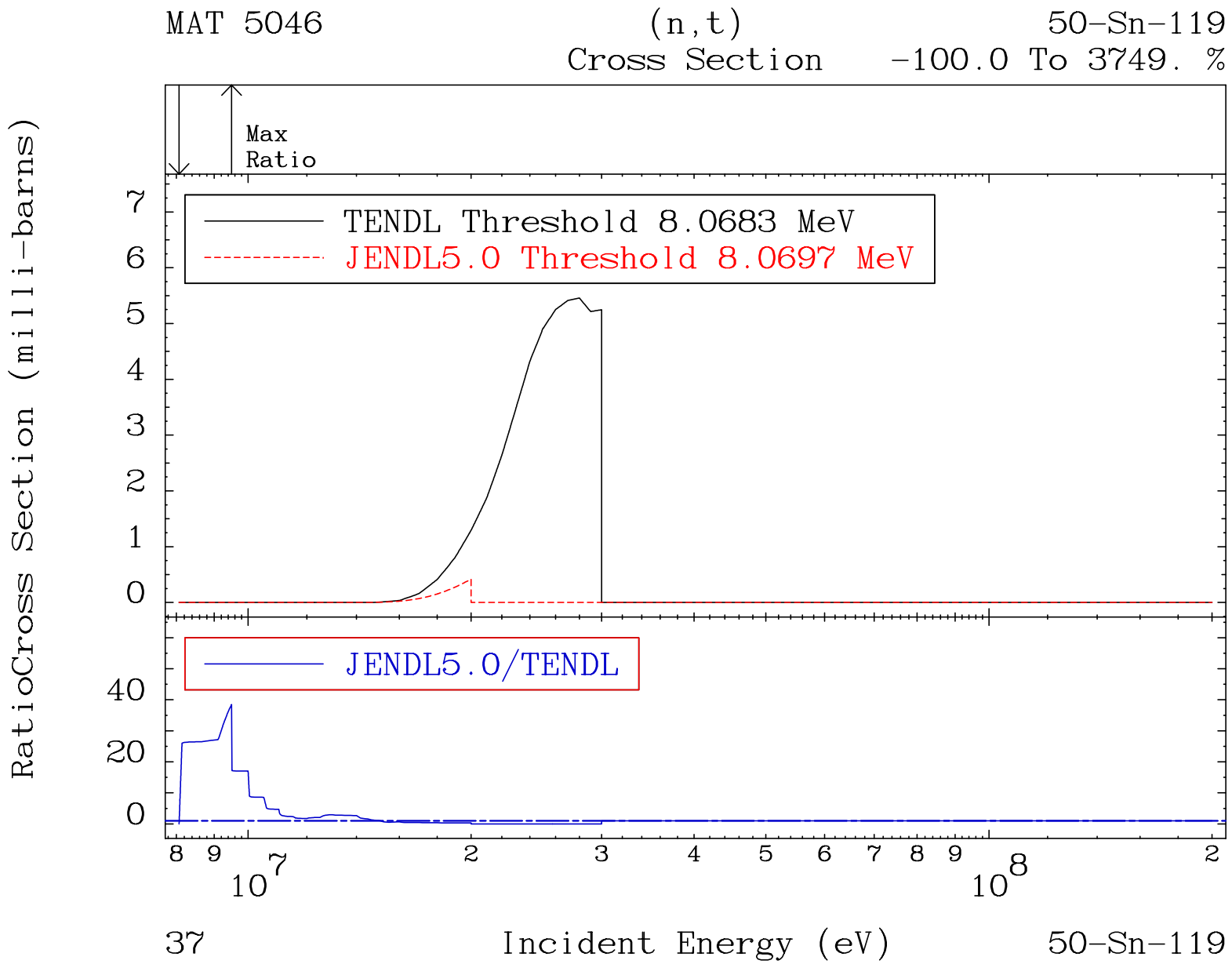

MAT 5046
MT= 73 (n,n') Level
50-Sn-119
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6308 MeV
JENDL5.0 Threshold 1.6469 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
50-Sn-119

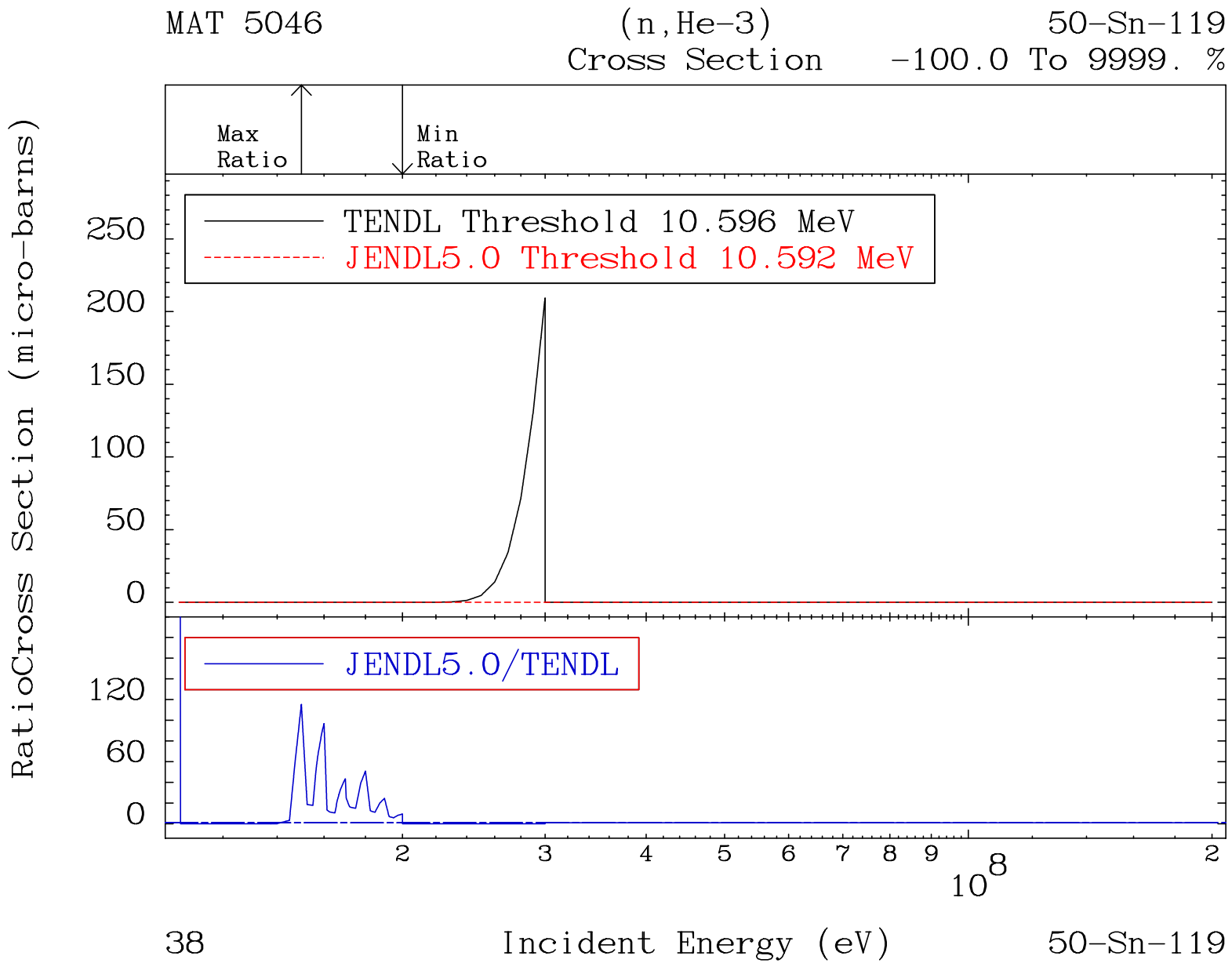

MAT 5046
(n,n') Continuum
Cross Section
50-Sn-119
-100.0 To 1981. %
Max Ratio
Min Ratio
TENDL Threshold 1.8254 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
50-Sn-119

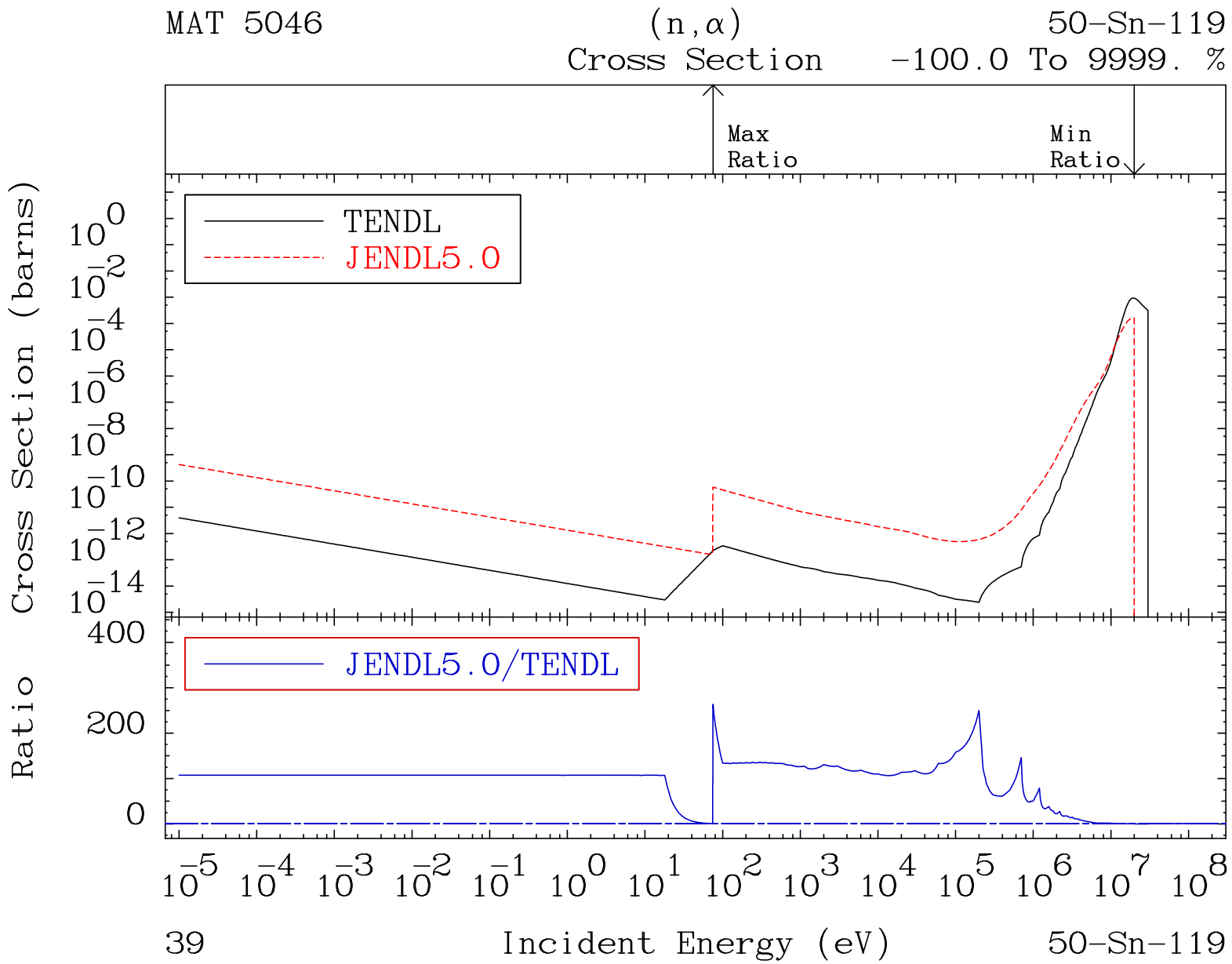

MAT 5046
(n,γ)
Cross Section
50-Sn-119
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
200
0
Incident Energy (eV)
34
50-Sn-119

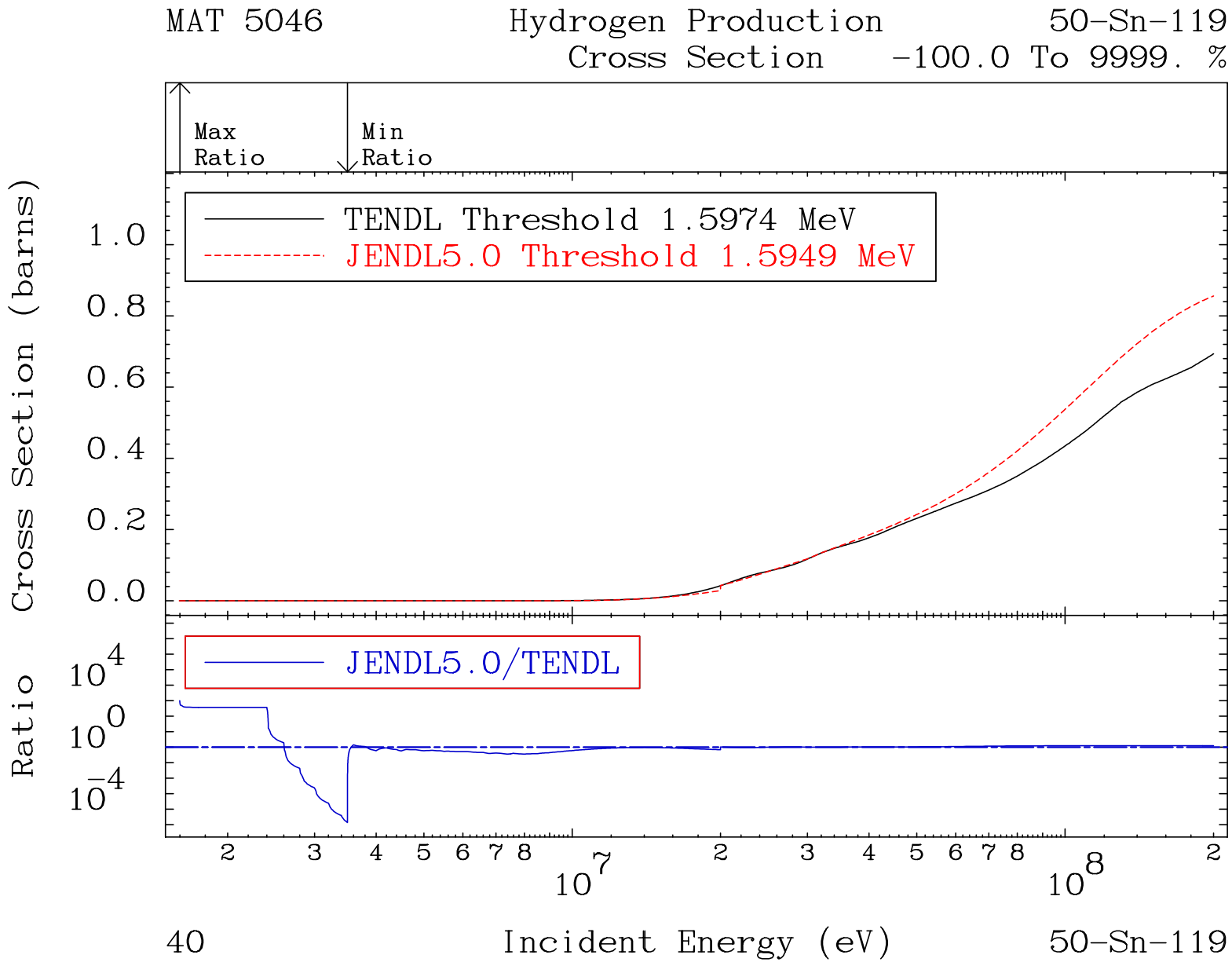

MAT 5046
(n,p)
Cross Section
50-Sn-119
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5974 MeV
JENDL5.0 Threshold 1.5949 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
50-Sn-119

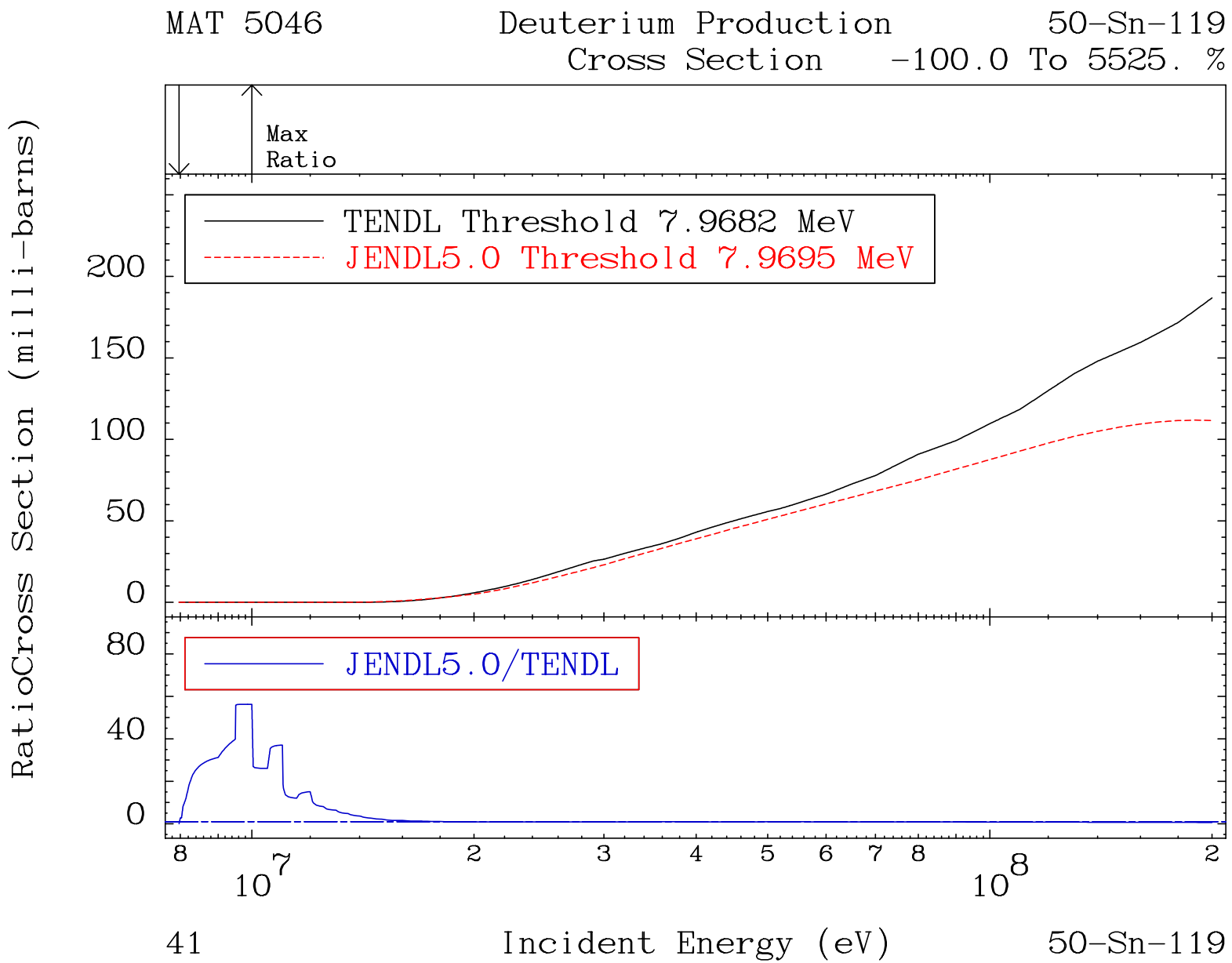

MAT 5046
(n,d)
50-Sn-119
Cross Section
-100.0 To 5525. %
Max
Ratio
TENDL Threshold 7.9682 MeV
JENDL5.0 Threshold 7.9695 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
80
40
0
8
2
3
4
5
6
7
8
2
10^7
10^8
36
Incident Energy (eV)
50-Sn-119

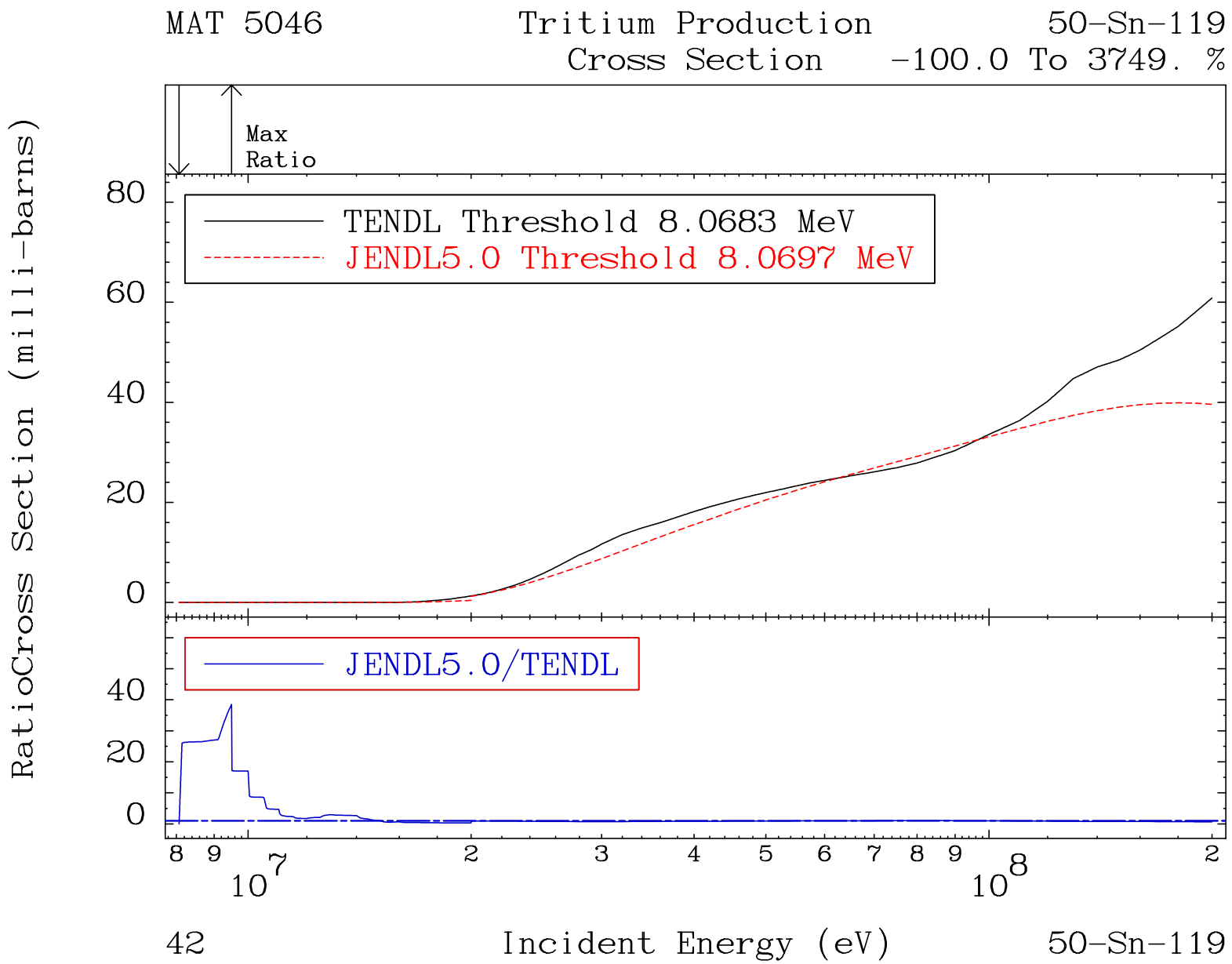

MAT 5046
(n,t)
50-Sn-119
Cross Section
-100.0 To 3749. %
Max
Ratio
TENDL Threshold 8.0683 MeV
JENDL5.0 Threshold 8.0697 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
50-Sn-119

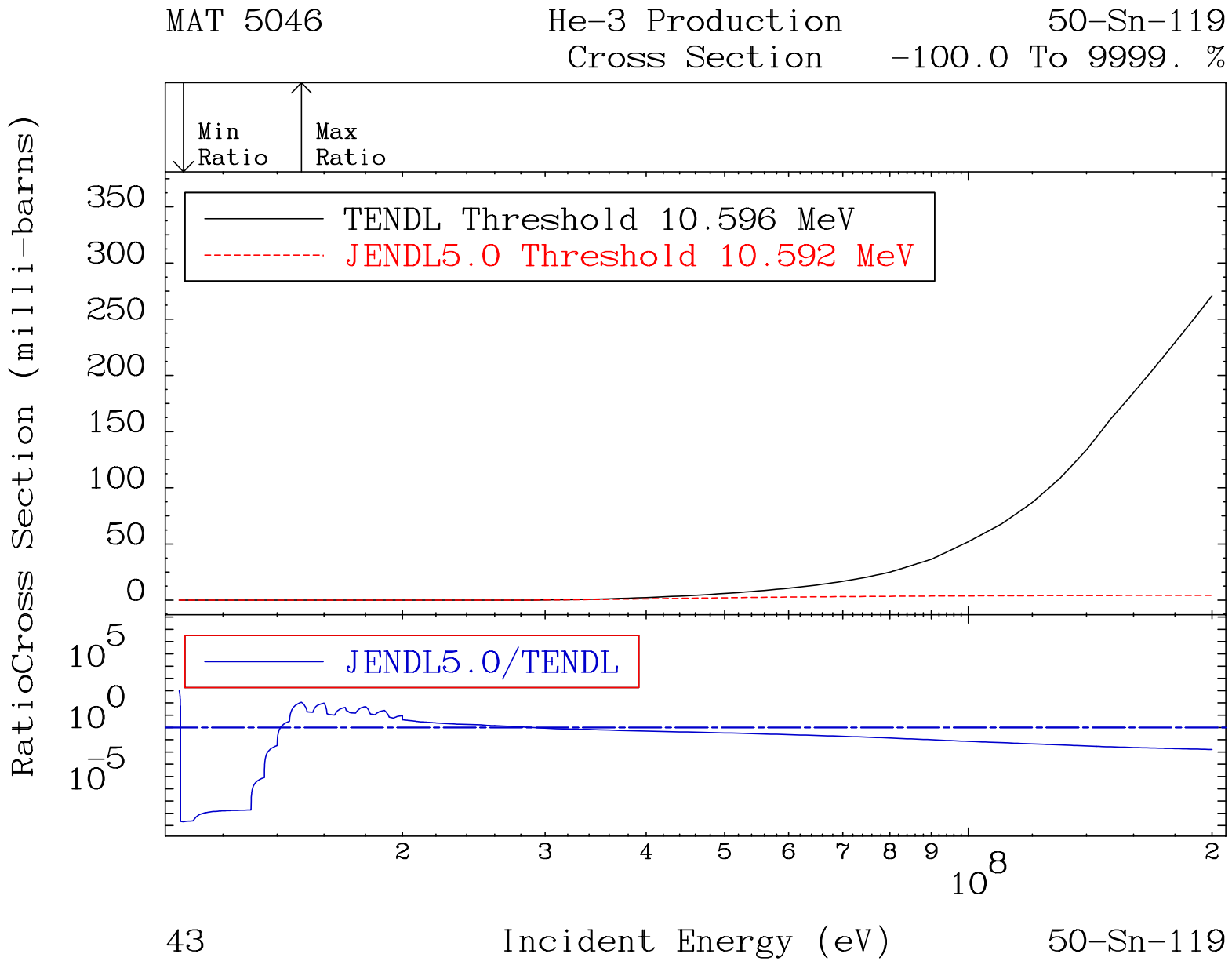

MAT 5046
(n,He-3)
50-Sn-119
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.596 MeV
JENDL5.0 Threshold 10.592 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
120
60
0
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
50-Sn-119

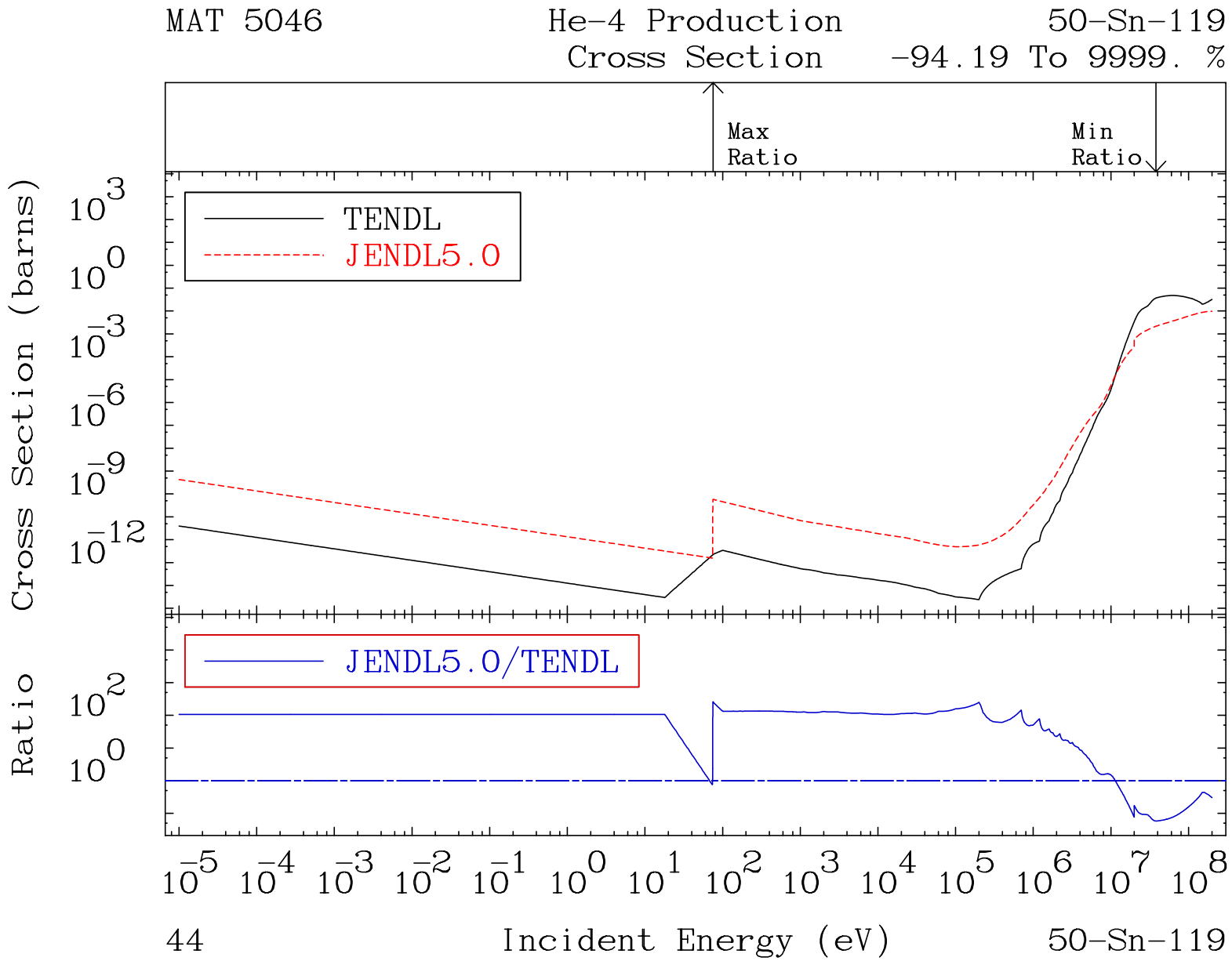

MAT 5046
(n,α)
Cross Section
50-Sn-119
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
50-Sn-119

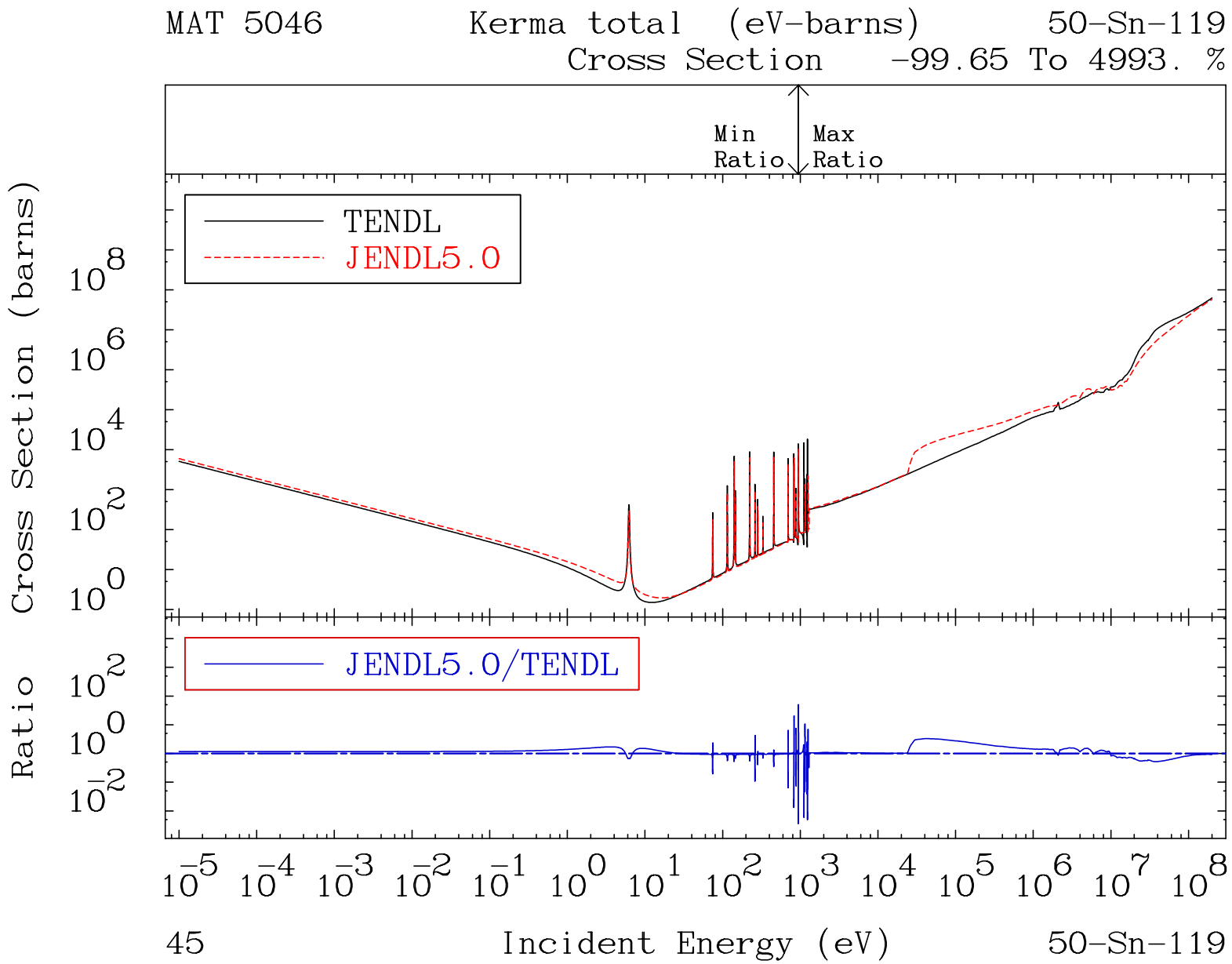

MAT 5046
Hydrogen Production
50-Sn-119
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5974 MeV
JENDL5.0 Threshold 1.5949 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
10^4
10^0
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
50-Sn-119

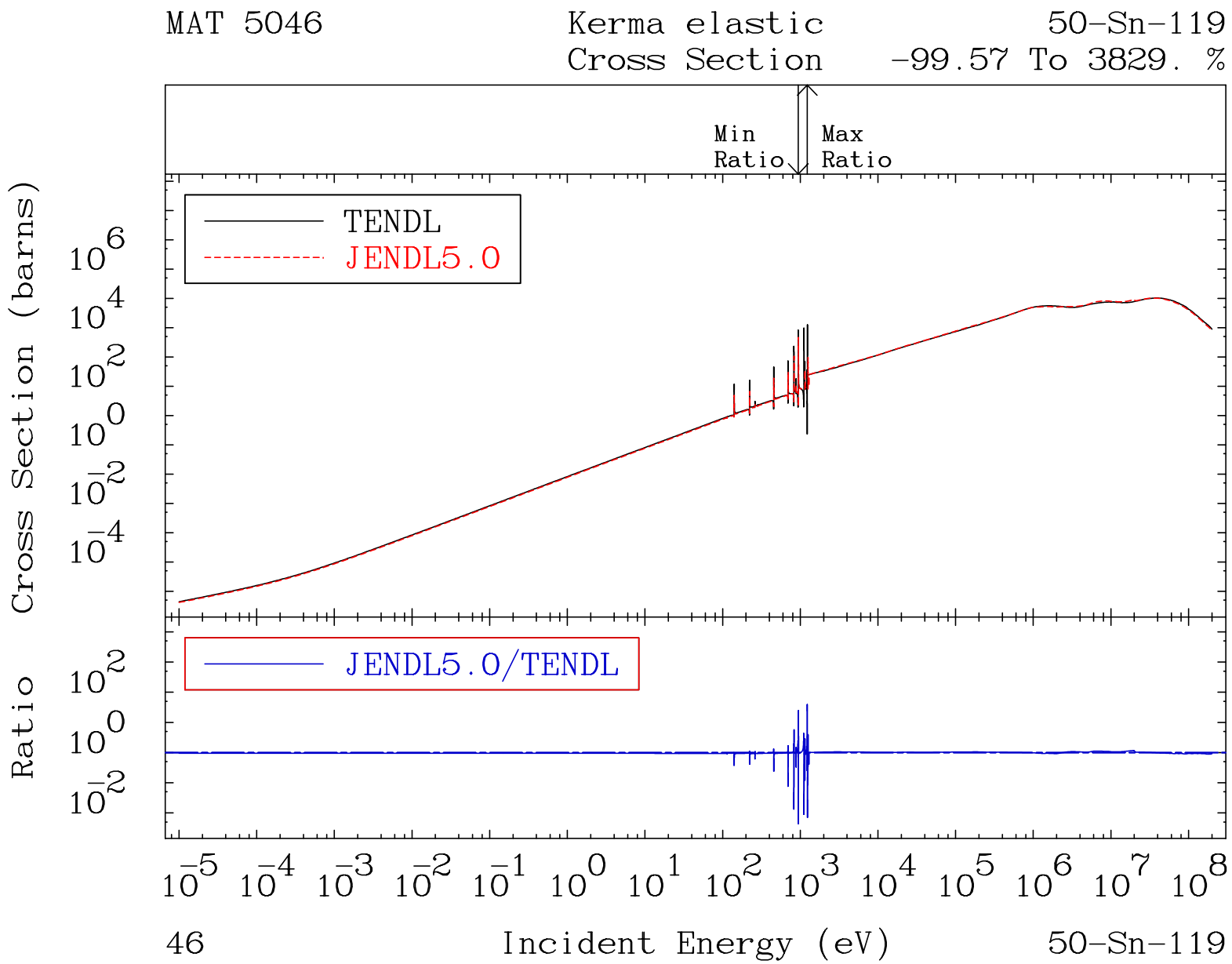

MAT 5046
Deuterium Production
50-Sn-119
Cross Section
-100.0 To 5525. %
Max
Ratio
TENDL Threshold 7.9682 MeV
JENDL5.0 Threshold 7.9695 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
80
40
0
8
2
3
4
5
6
7
8
2
10^7
10^8
41
Incident Energy (eV)
50-Sn-119

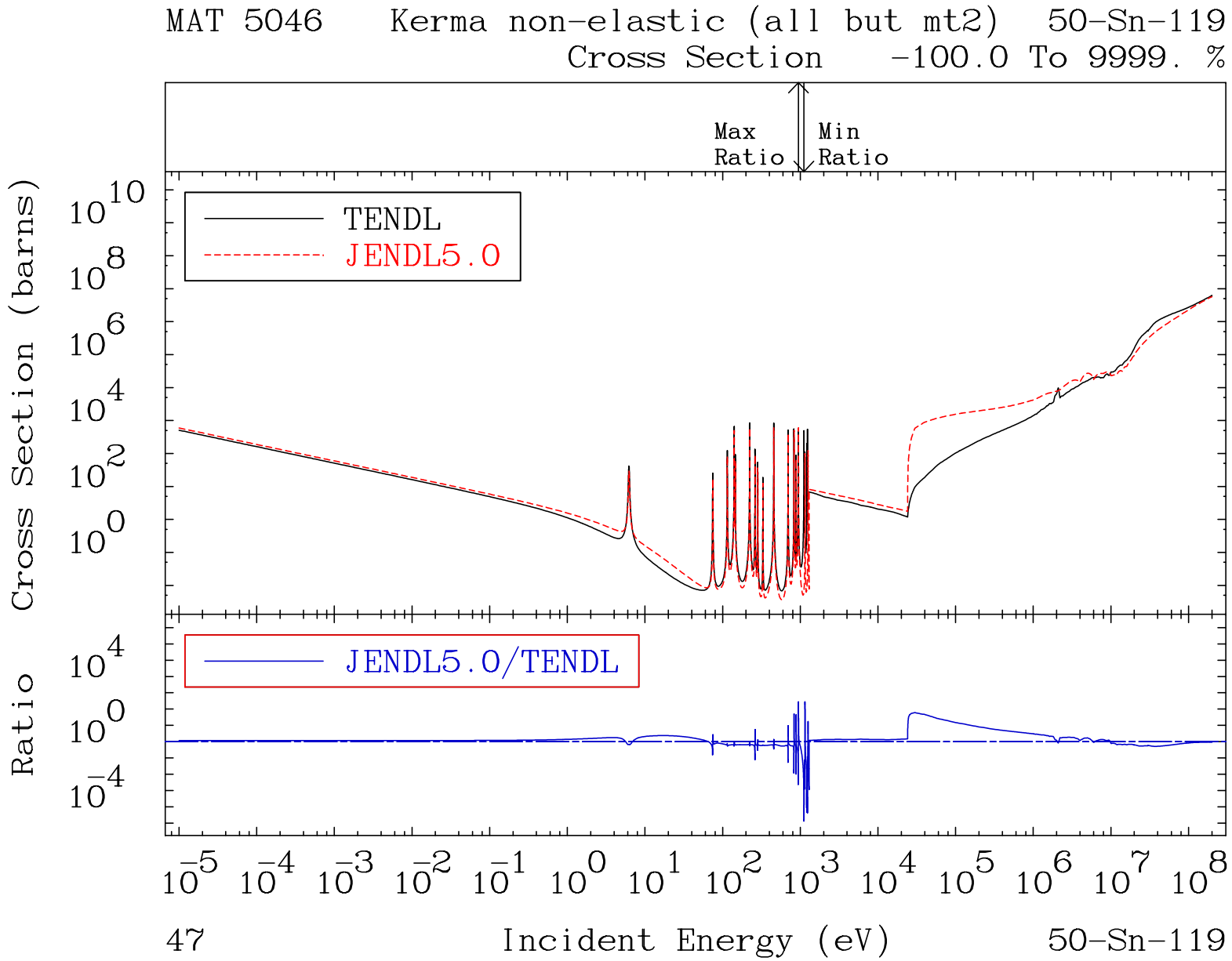

MAT 5046
Tritium Production
50-Sn-119
Cross Section
-100.0 To 3749. %
Max
Ratio
TENDL Threshold 8.0683 MeV
JENDL5.0 Threshold 8.0697 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
40
20
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
50-Sn-119

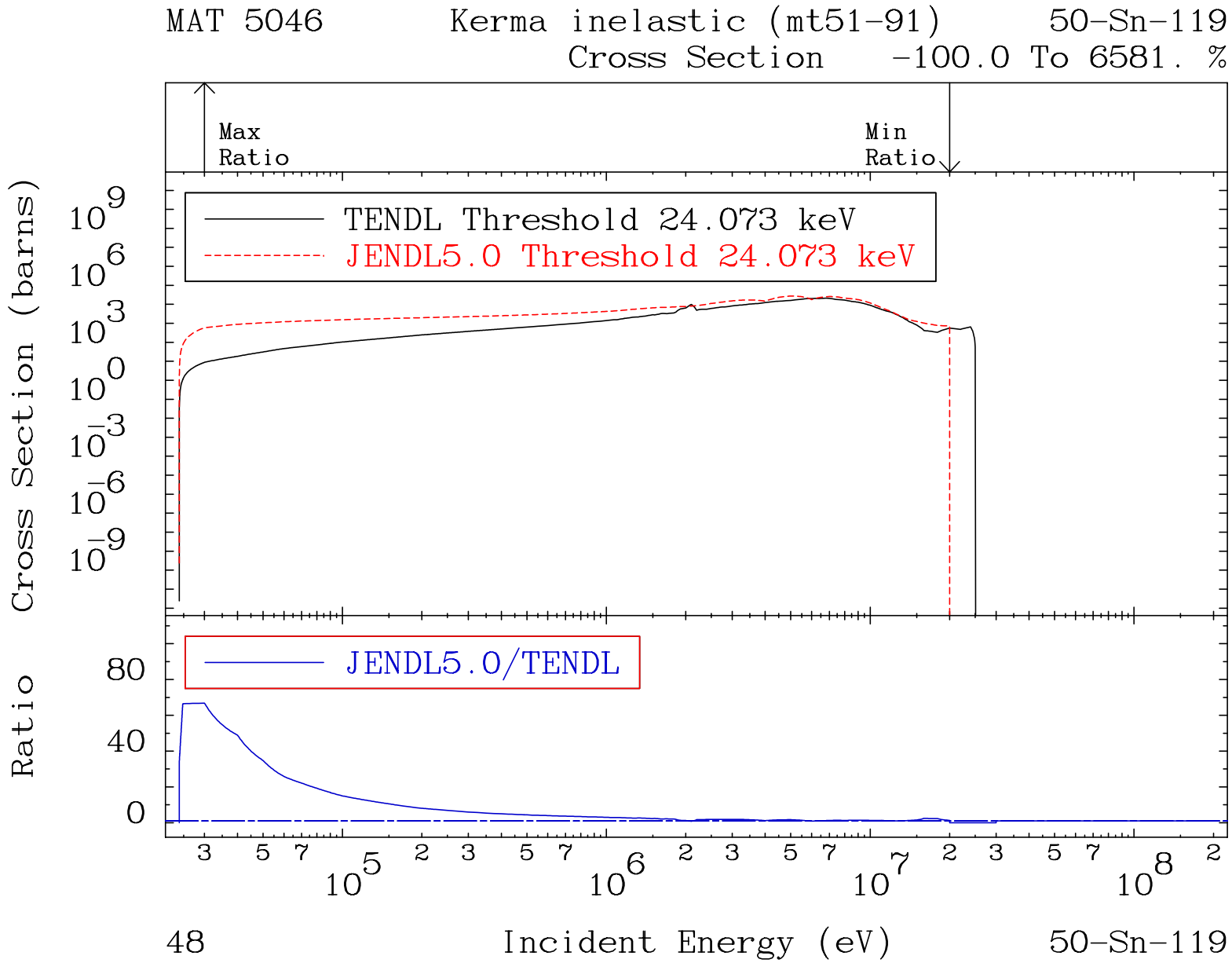

MAT 5046
He-3 Production
Cross Section
50-Sn-119
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 10.596 MeV
JENDL5.0 Threshold 10.592 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
10^5
10^0
10^-5
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
50-Sn-119

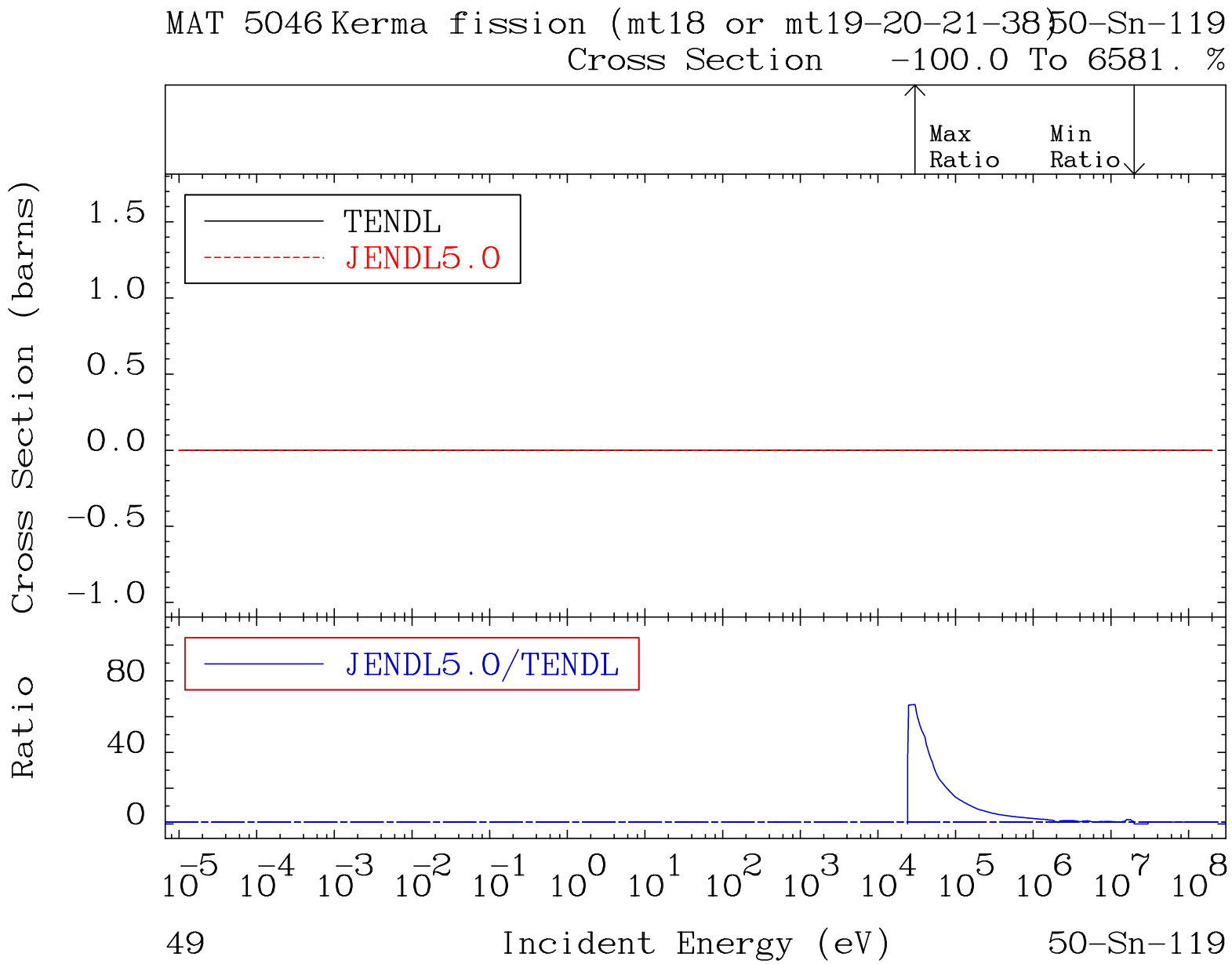

MAT 5046
He-4 Production
Cross Section
50-Sn-119
-94.19 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
50-Sn-119

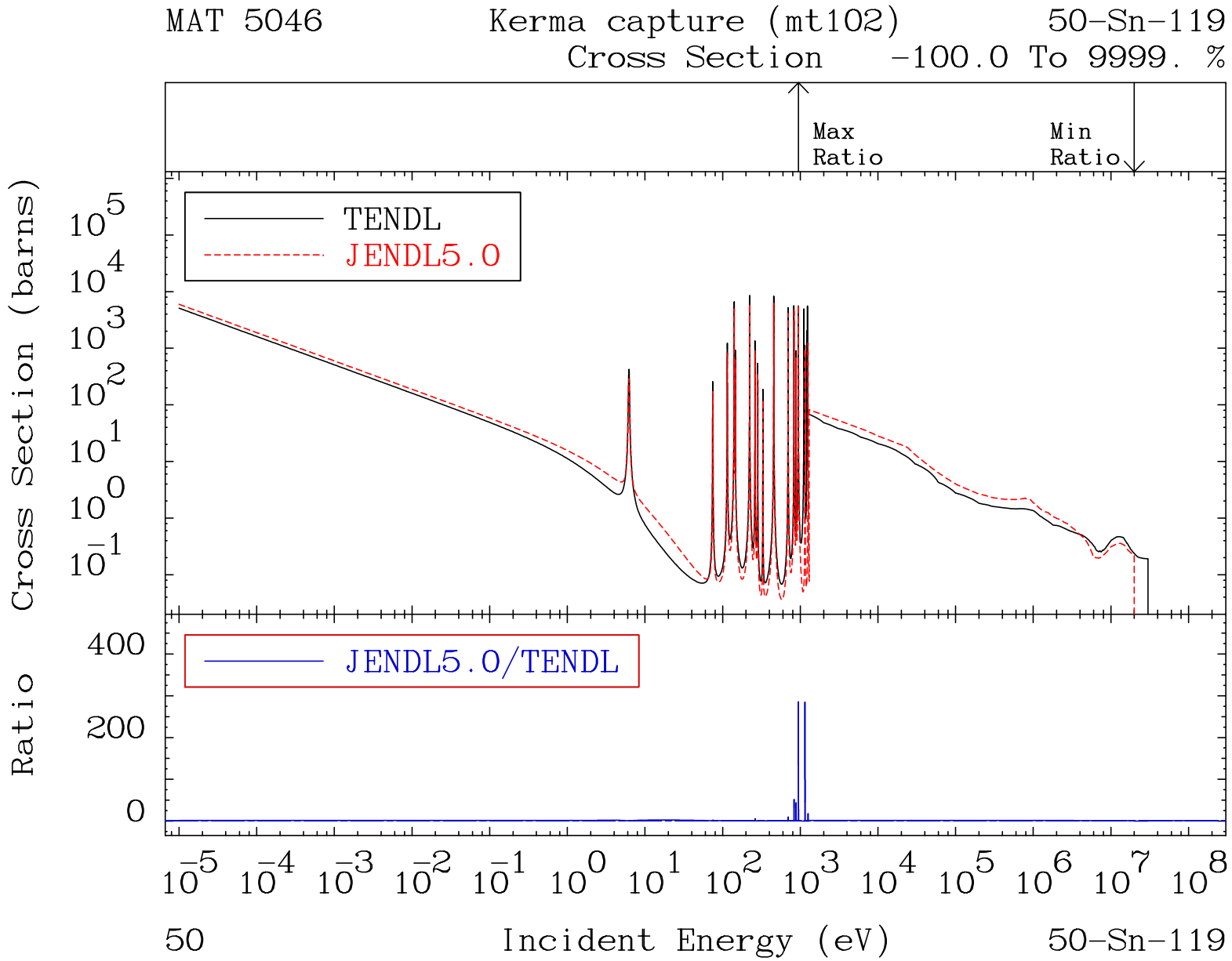

MAT 5046
Kerma total (eV-barns)
50-Sn-119
Cross Section -99.65 To 4993. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
50-Sn-119

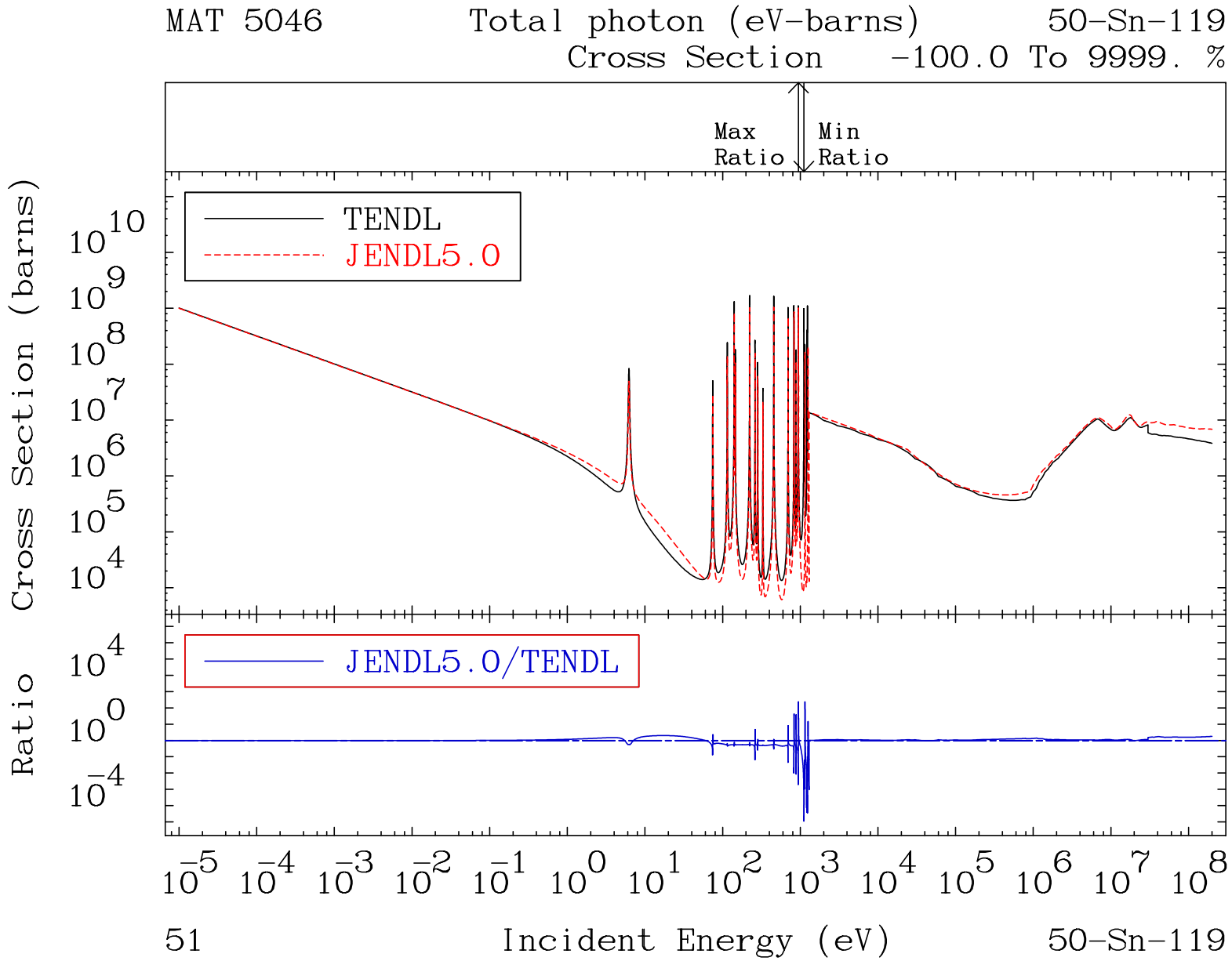

MAT 5046
Kerma elastic
Cross Section
50-Sn-119
-99.57 To 3829. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
46
50-Sn-119

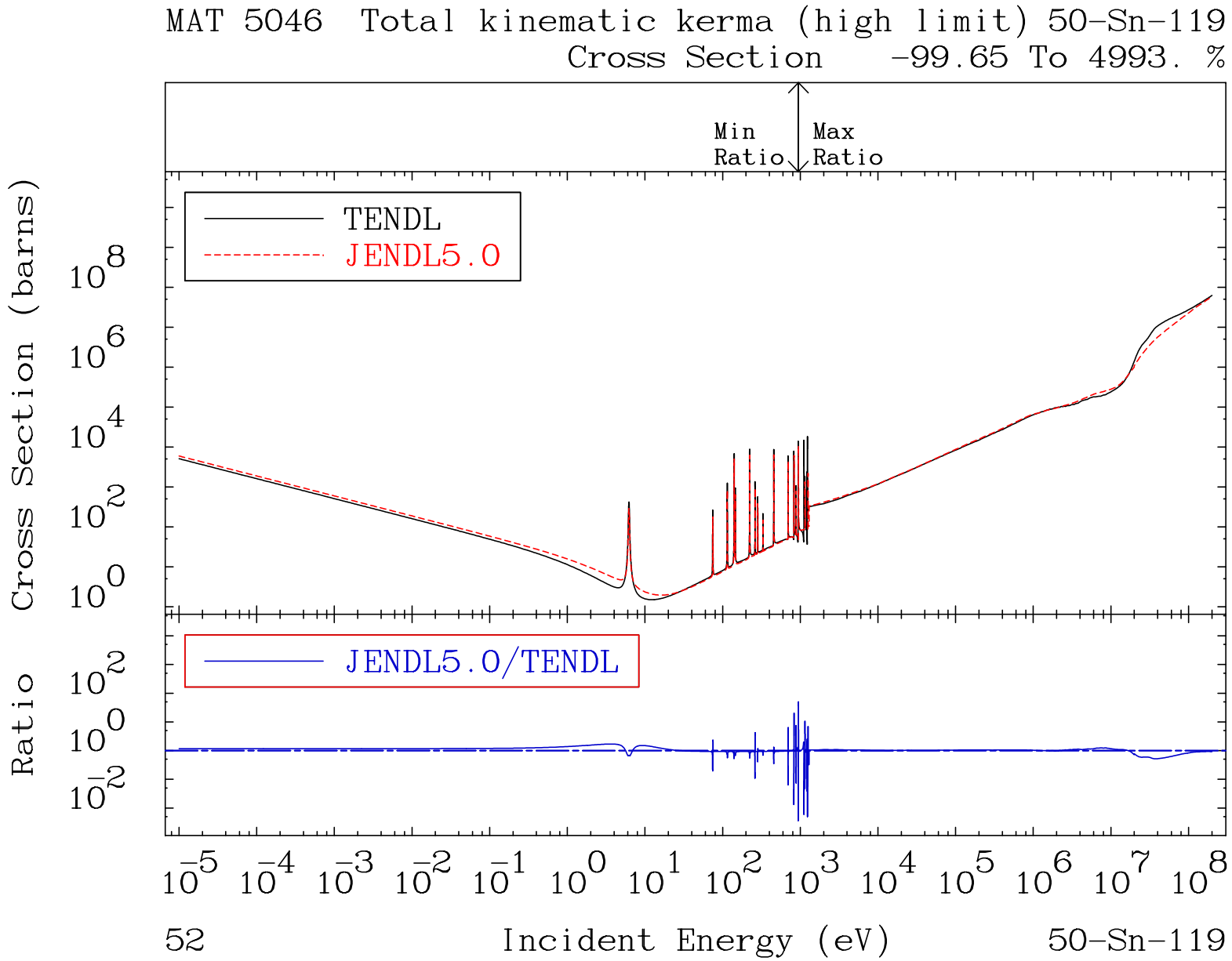

MAT 5046 Kerma non-elastic (all but mt2) 50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
50-Sn-119

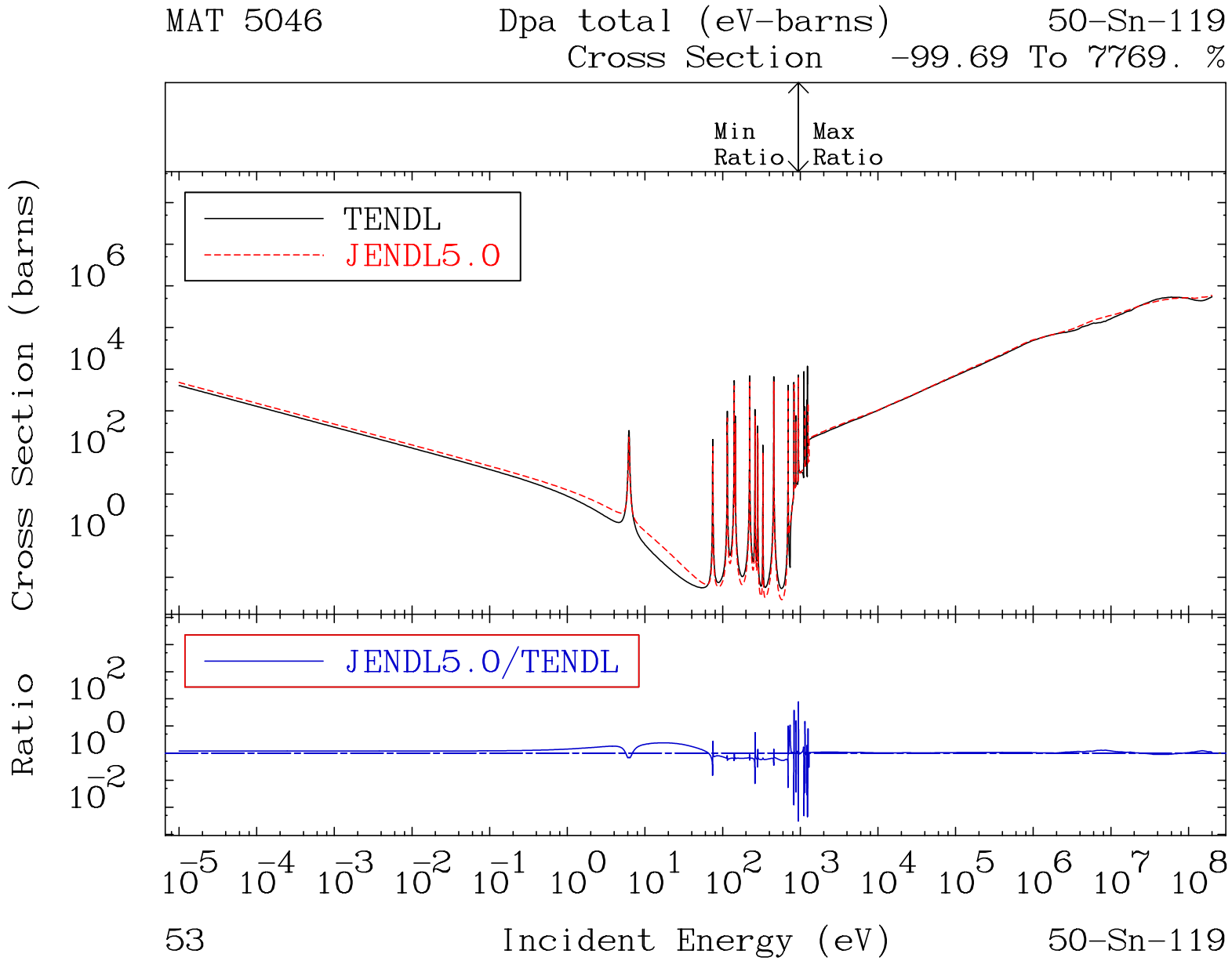

MAT 5046
Kerma inelastic (mt51-91)
50-Sn-119
Cross Section -100.0 To 6581. %
Max Ratio
Min Ratio
TENDL Threshold 24.073 keV
JENDL5.0 Threshold 24.073 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
50-Sn-119

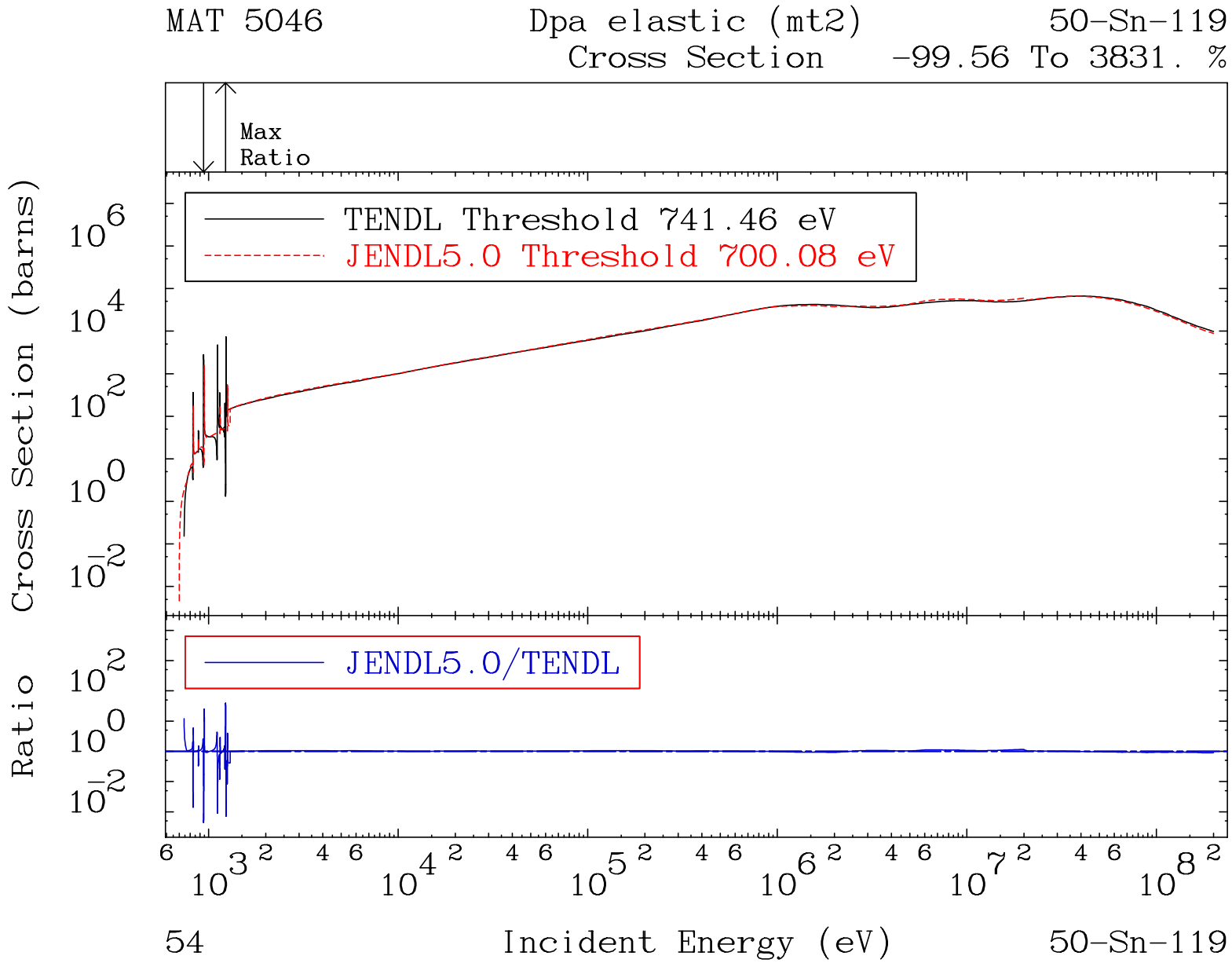

MAT 5046 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-119
Cross Section -100.0 To 6581. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
80
40
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
49
Incident Energy (eV)
50-Sn-119

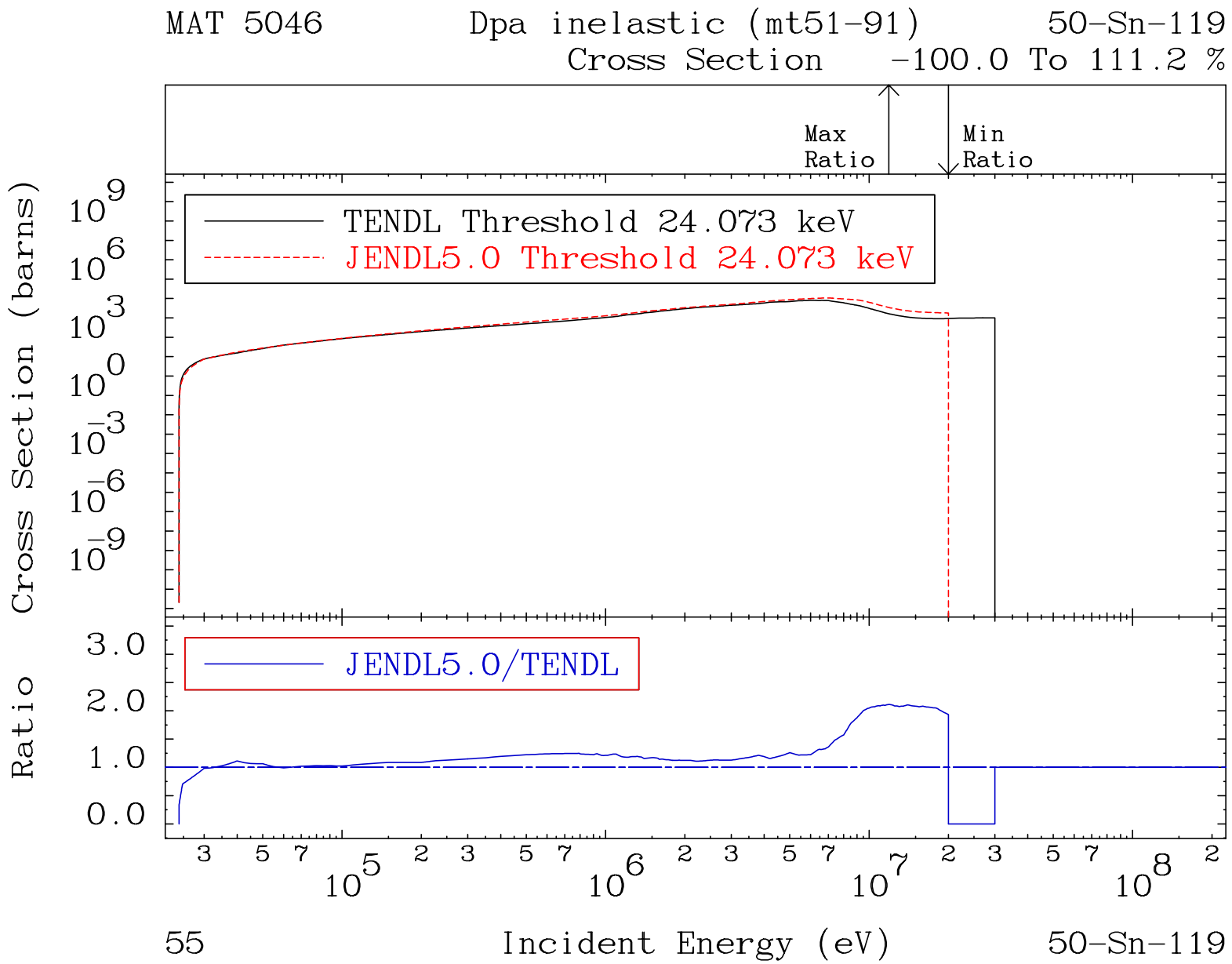

MAT 5046
Kerma capture (mt102)
50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
50-Sn-119

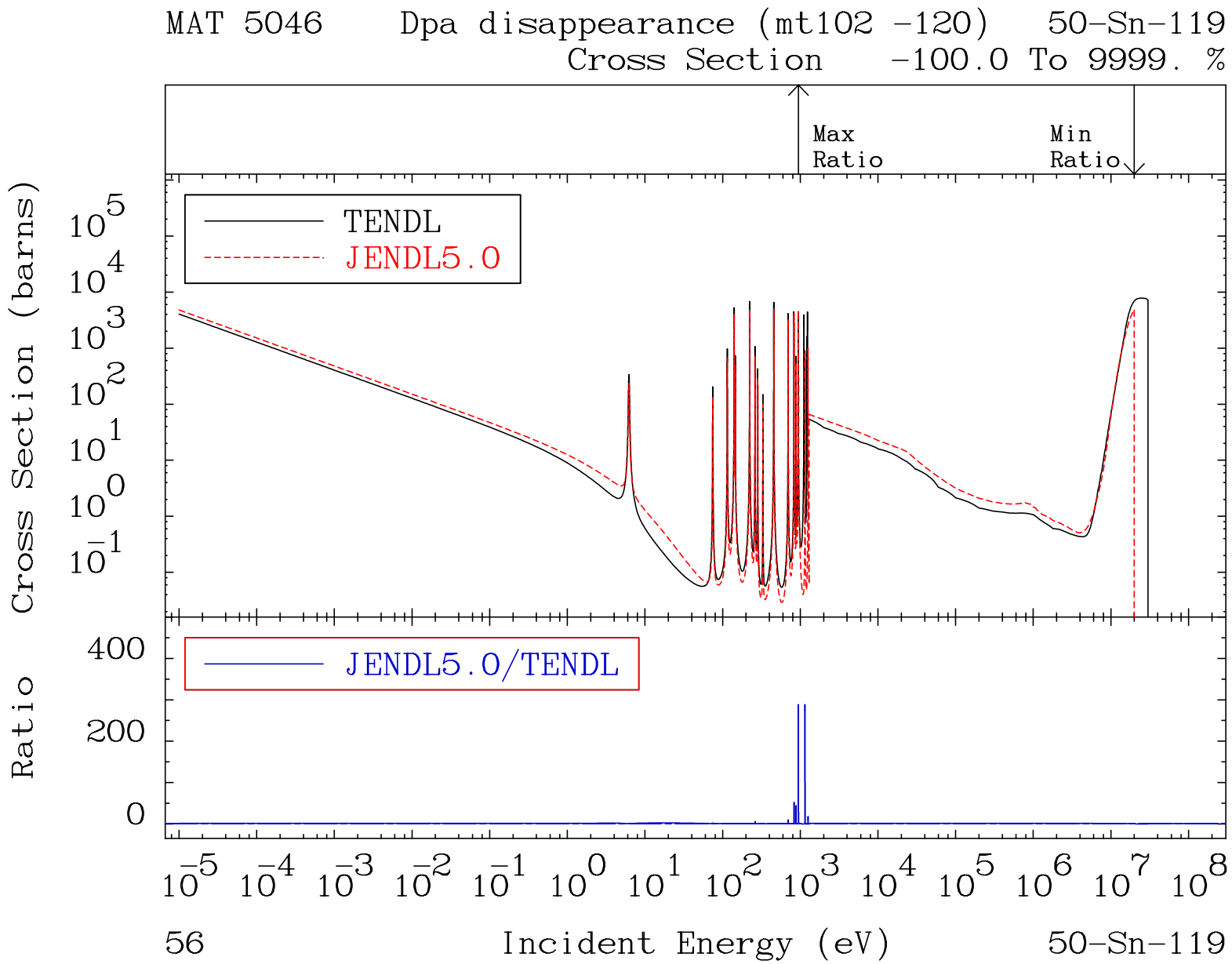

MAT 5046
Total photon (eV-barns)
50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
50-Sn-119

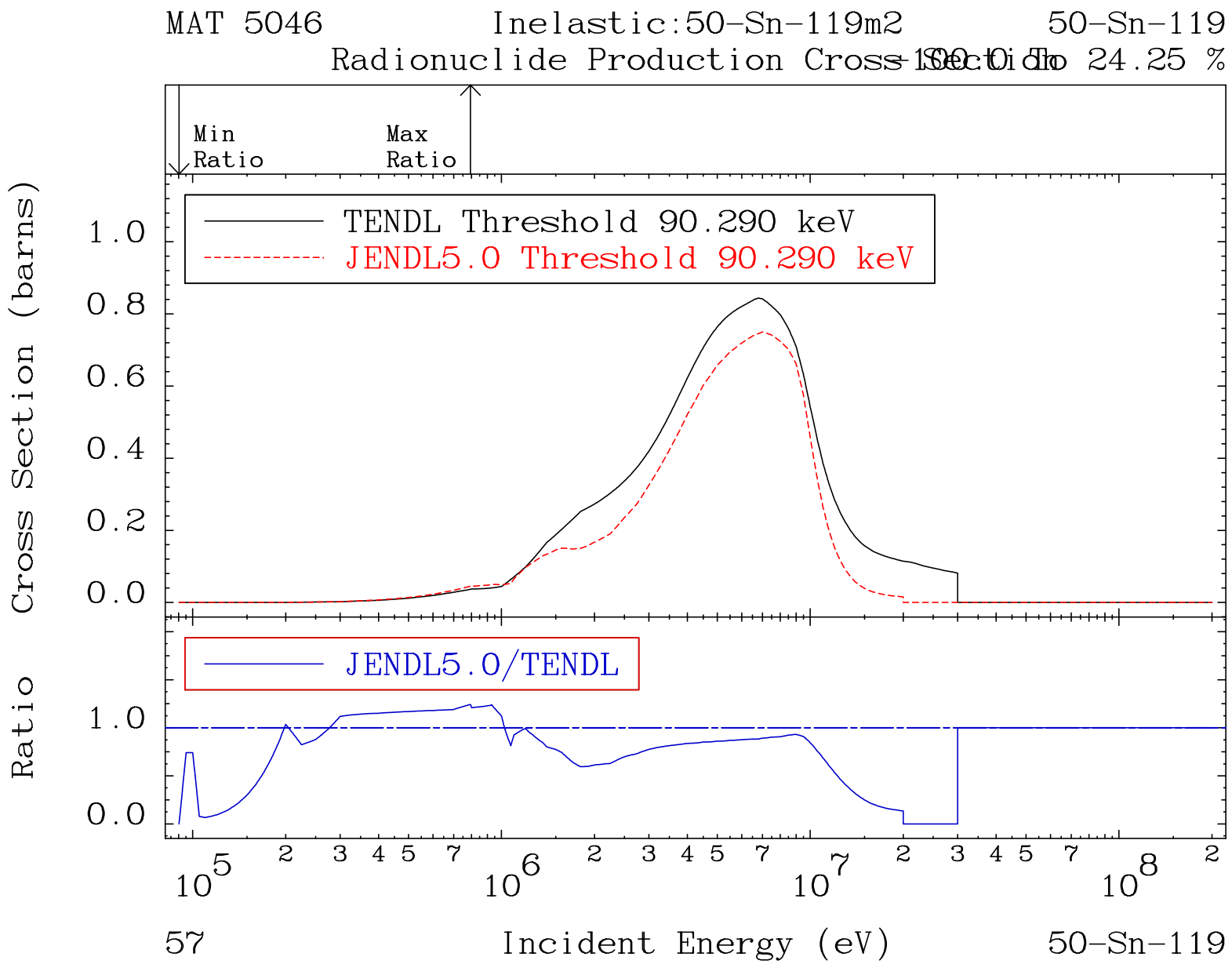

MAT 5046 Total kinematic kerma (high limit) 50-Sn-119
Cross Section -99.65 To 4993. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
50-Sn-119

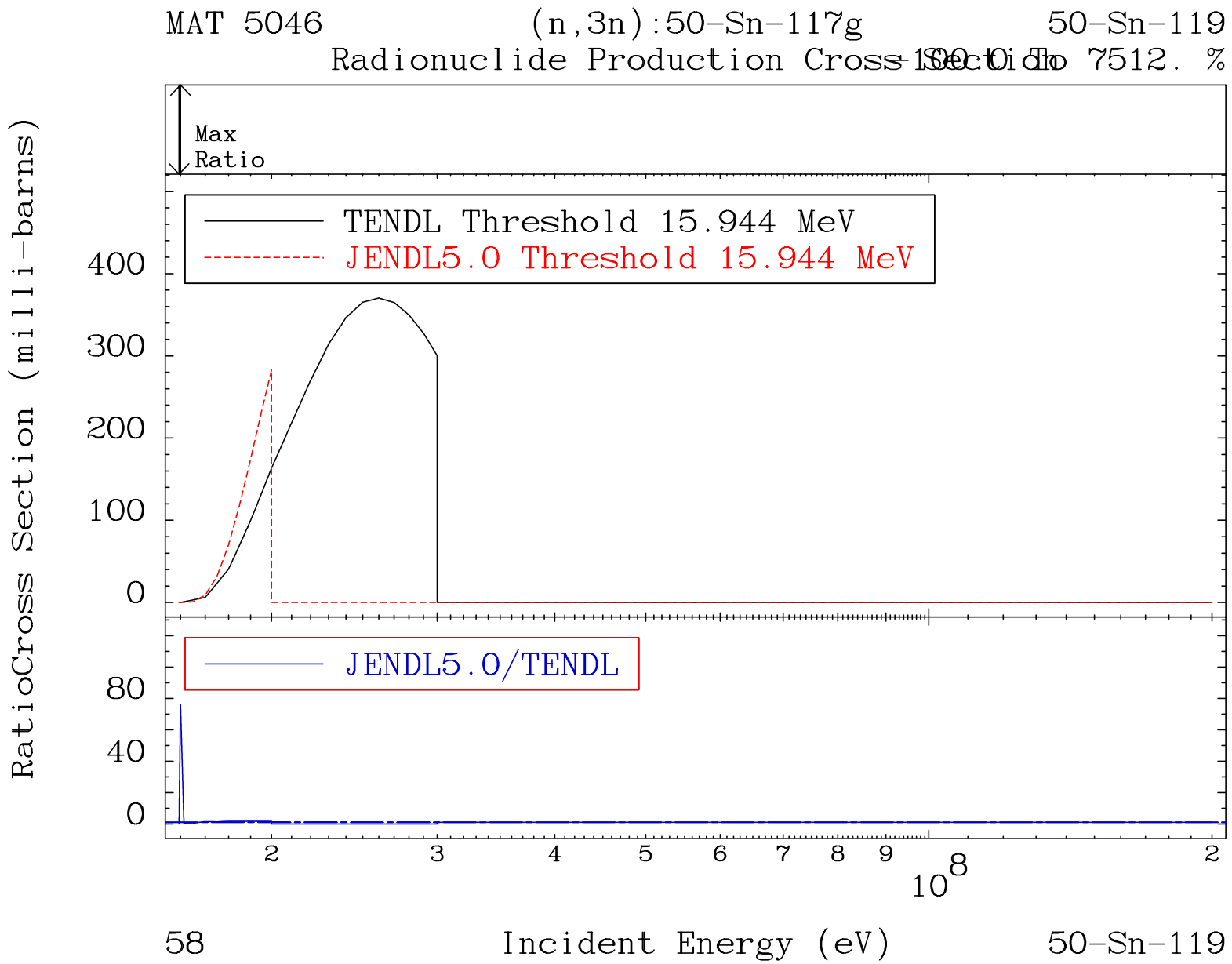

MAT 5046
Dpa total (eV-barns)
50-Sn-119
Cross Section
-99.69 To 7769. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
50-Sn-119

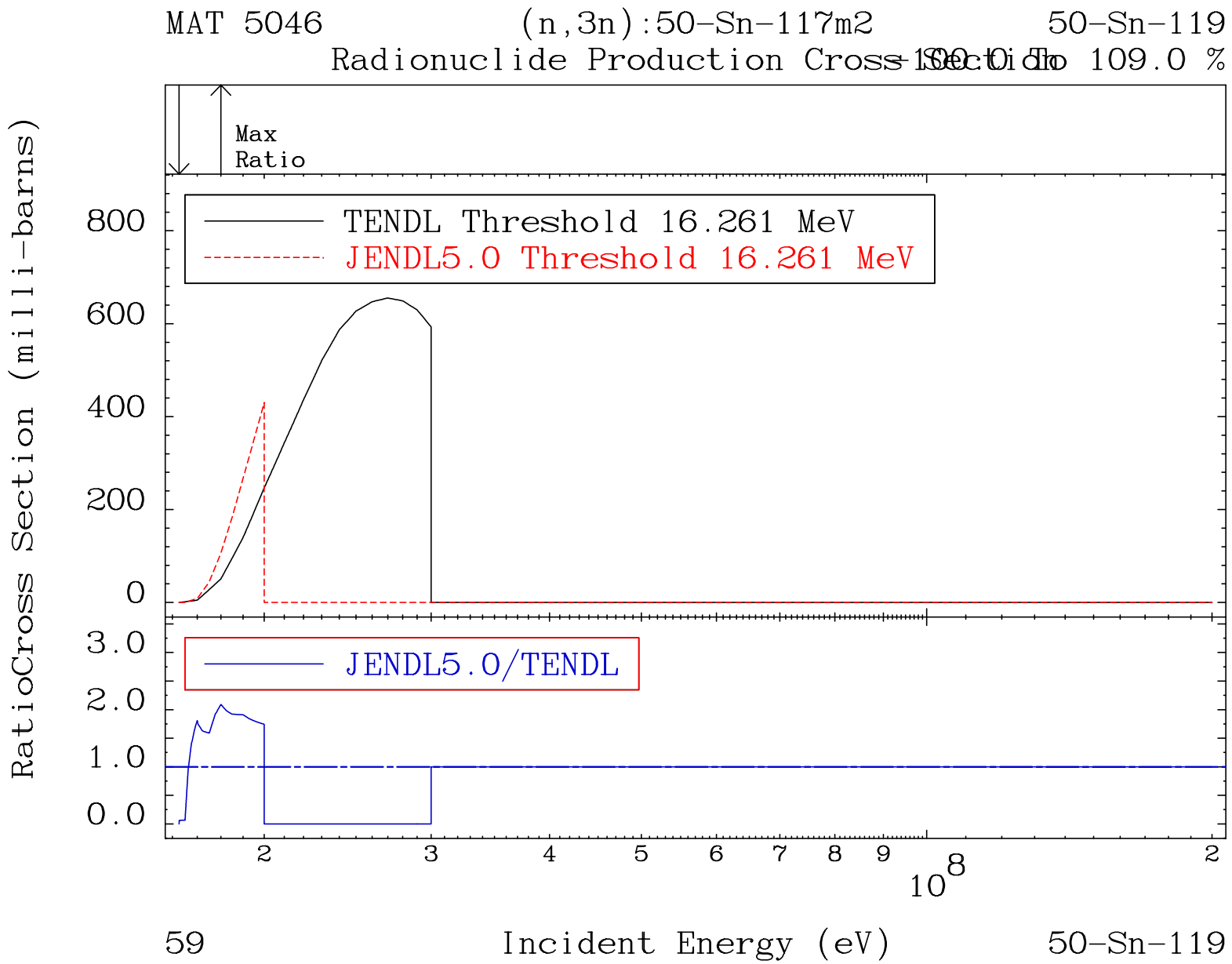

MAT 5046
Dpa elastic (mt2)
Cross Section
50-Sn-119
-99.56 To 3831. %
Max
Ratio
TENDL Threshold 741.46 eV
JENDL5.0 Threshold 700.08 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
50-Sn-119

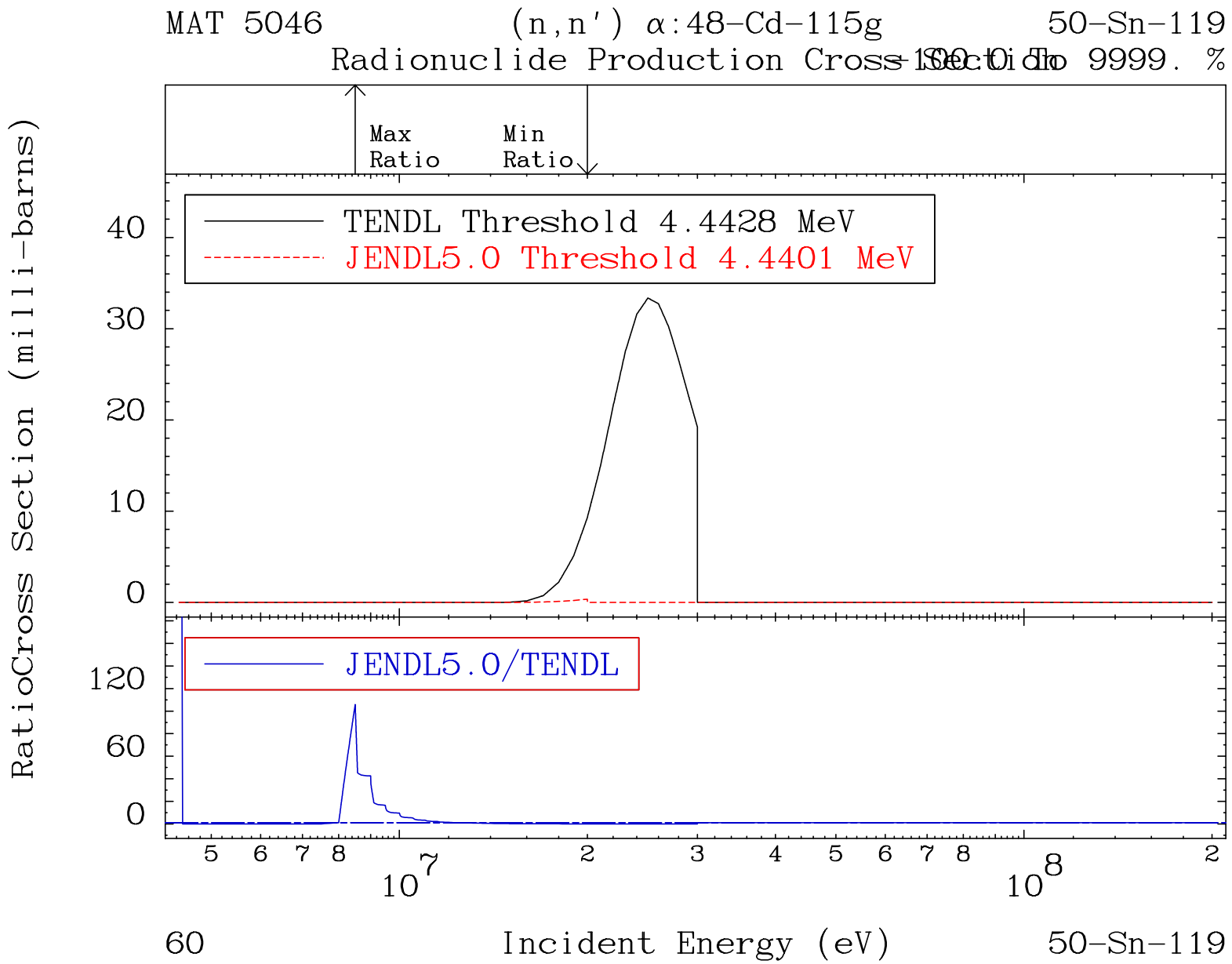

MAT 5046
Dpa inelastic (mt51-91)
50-Sn-119
Cross Section -100.0 To 111.2 %
Max Ratio
Min Ratio
TENDL Threshold 24.073 keV
JENDL5.0 Threshold 24.073 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
50-Sn-119

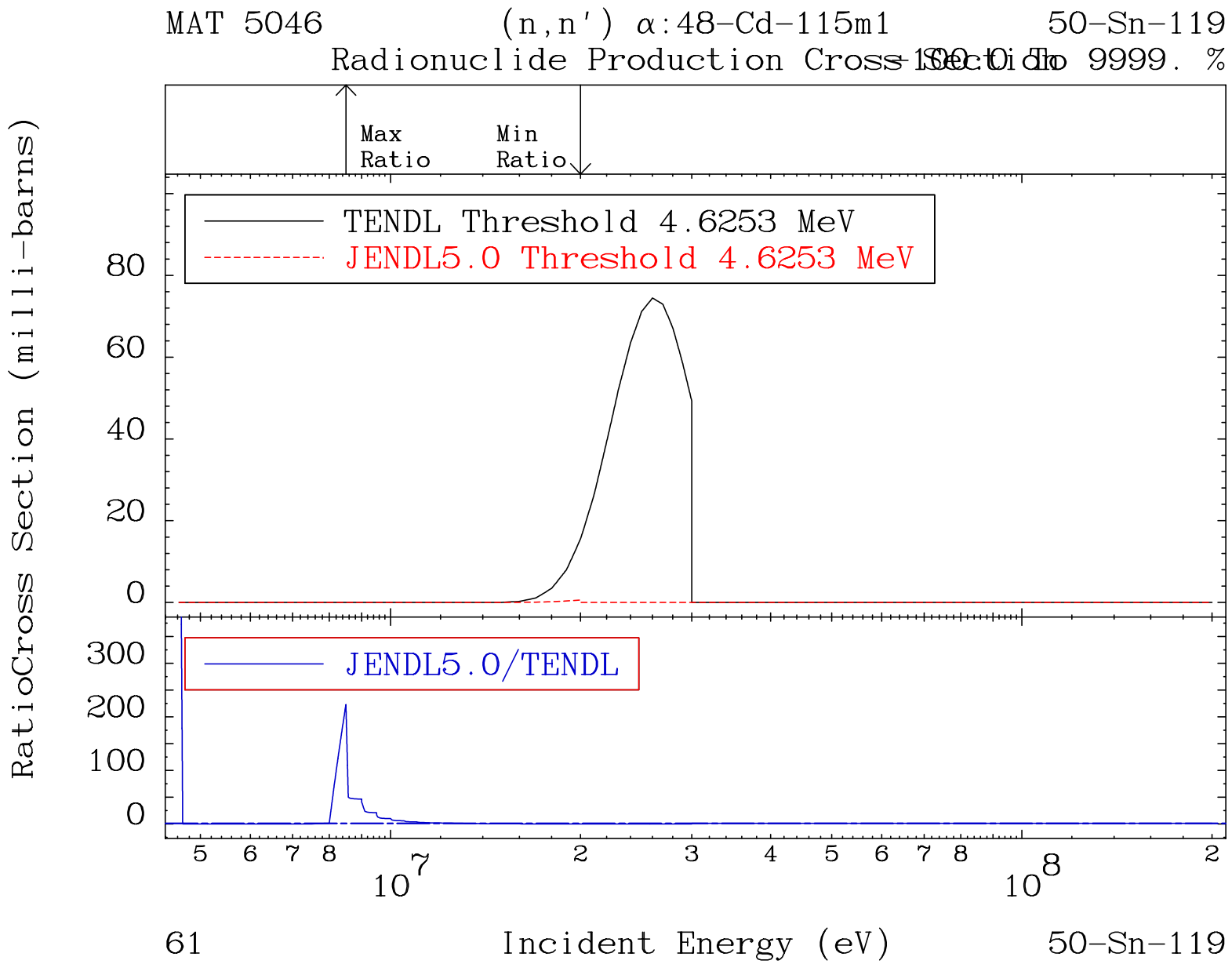

MAT 5046 Dpa disappearance (mt102 -120) 50-Sn-119
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
50-Sn-119

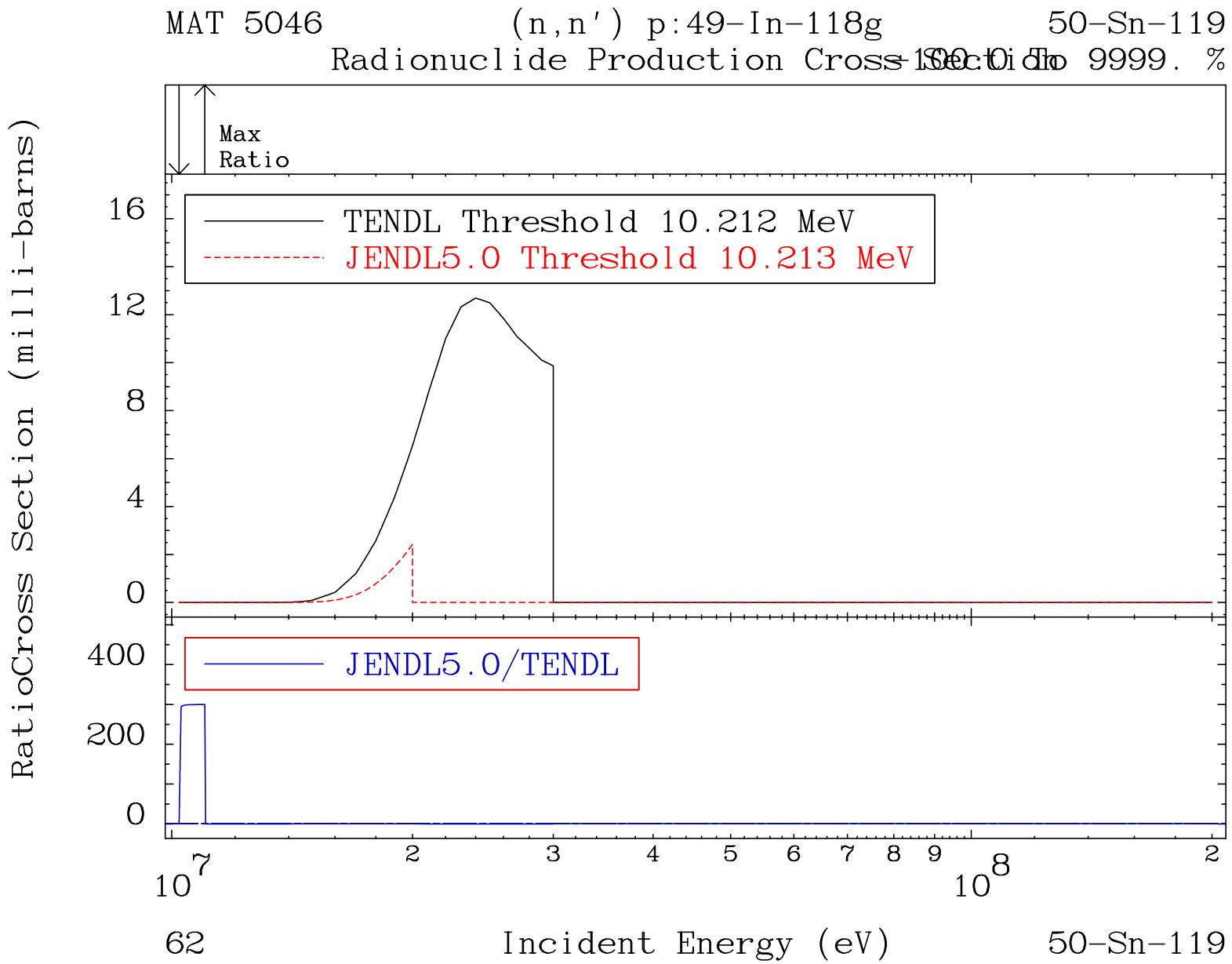

MAT 5046
Inelastic:50-Sn-119m2
50-Sn-119
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 90.290 keV
JENDL5.0 Threshold 90.290 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
10^5
10^6
10^7
10^8
Incident Energy (eV)
57
50-Sn-119

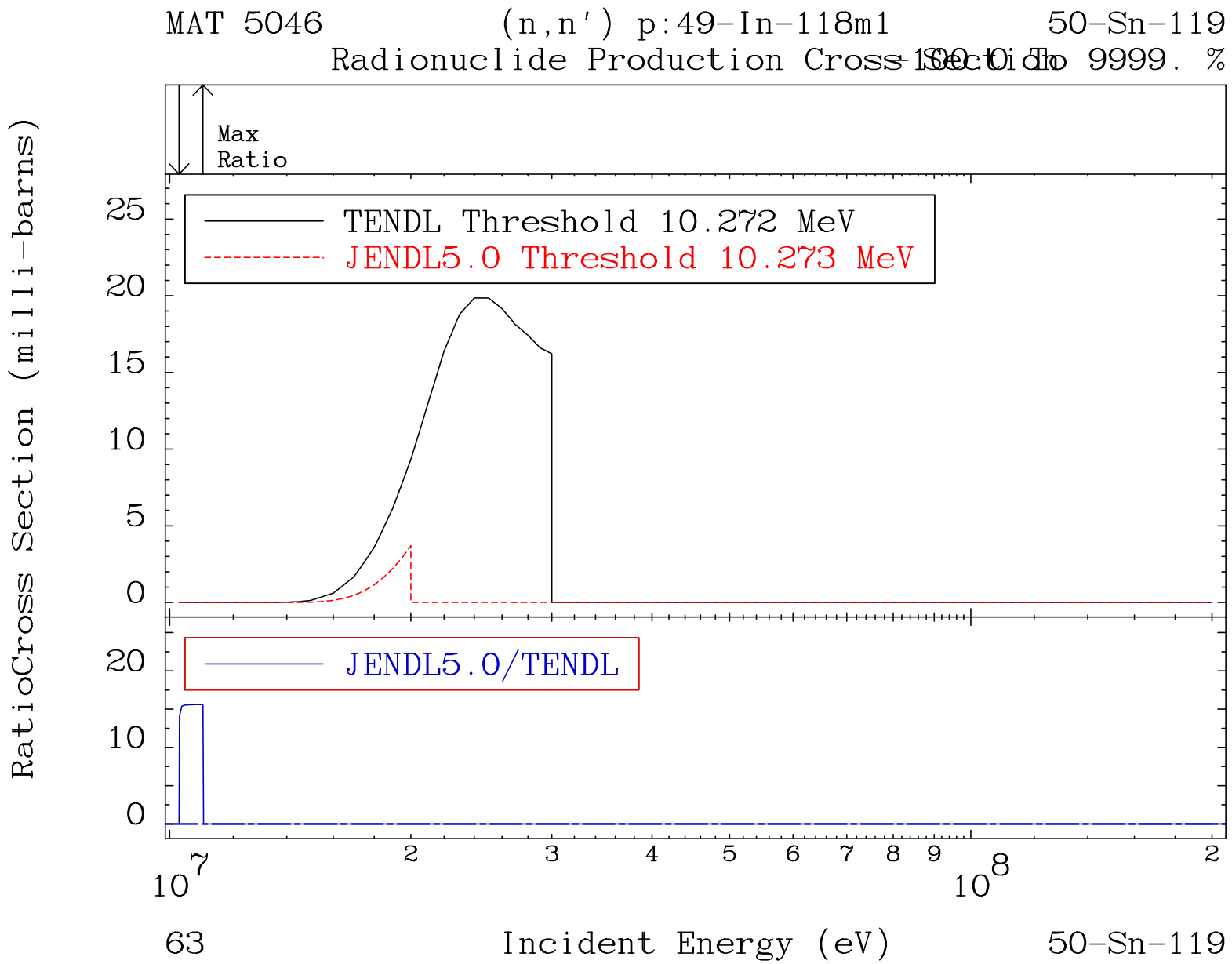

MAT 5046
(n,3n):50-Sn-117g
50-Sn-119
Radionuclide Production Cross Section To 7512. %
Max
Ratio
TENDL Threshold 15.944 MeV
JENDL5.0 Threshold 15.944 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
58
Incident Energy (eV)
50-Sn-119

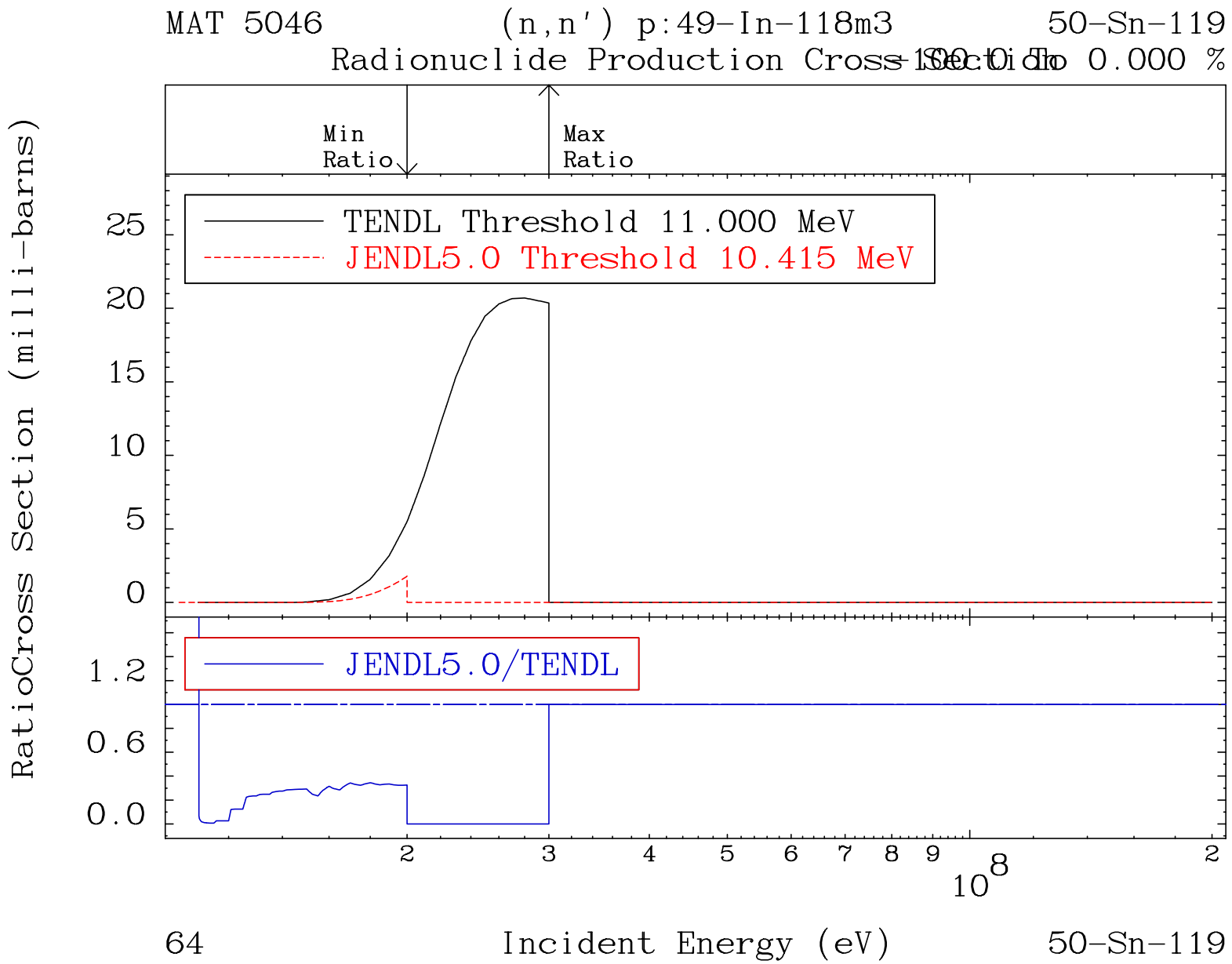

MAT 5046
(n,3n):50-Sn-117m2
50-Sn-119
Radionuclide Production Cross Section To 109.0 %
Max
Ratio
TENDL Threshold 16.261 MeV
JENDL5.0 Threshold 16.261 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
59
Incident Energy (eV)
50-Sn-119

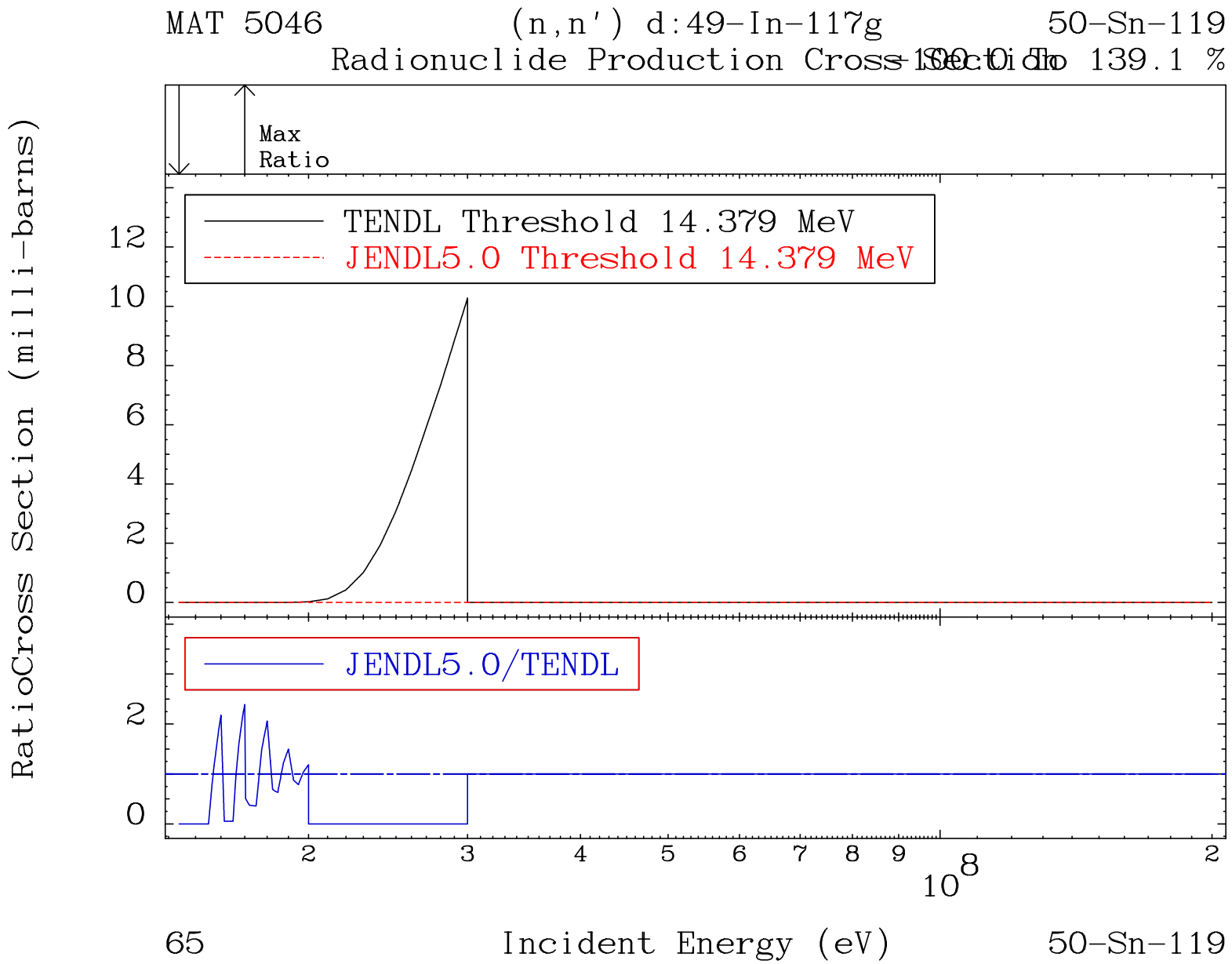

MAT 5046
(n,n') α:48-Cd-115g
50-Sn-119
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.4428 MeV
JENDL5.0 Threshold 4.4401 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
120
60
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
60
Incident Energy (eV)
50-Sn-119

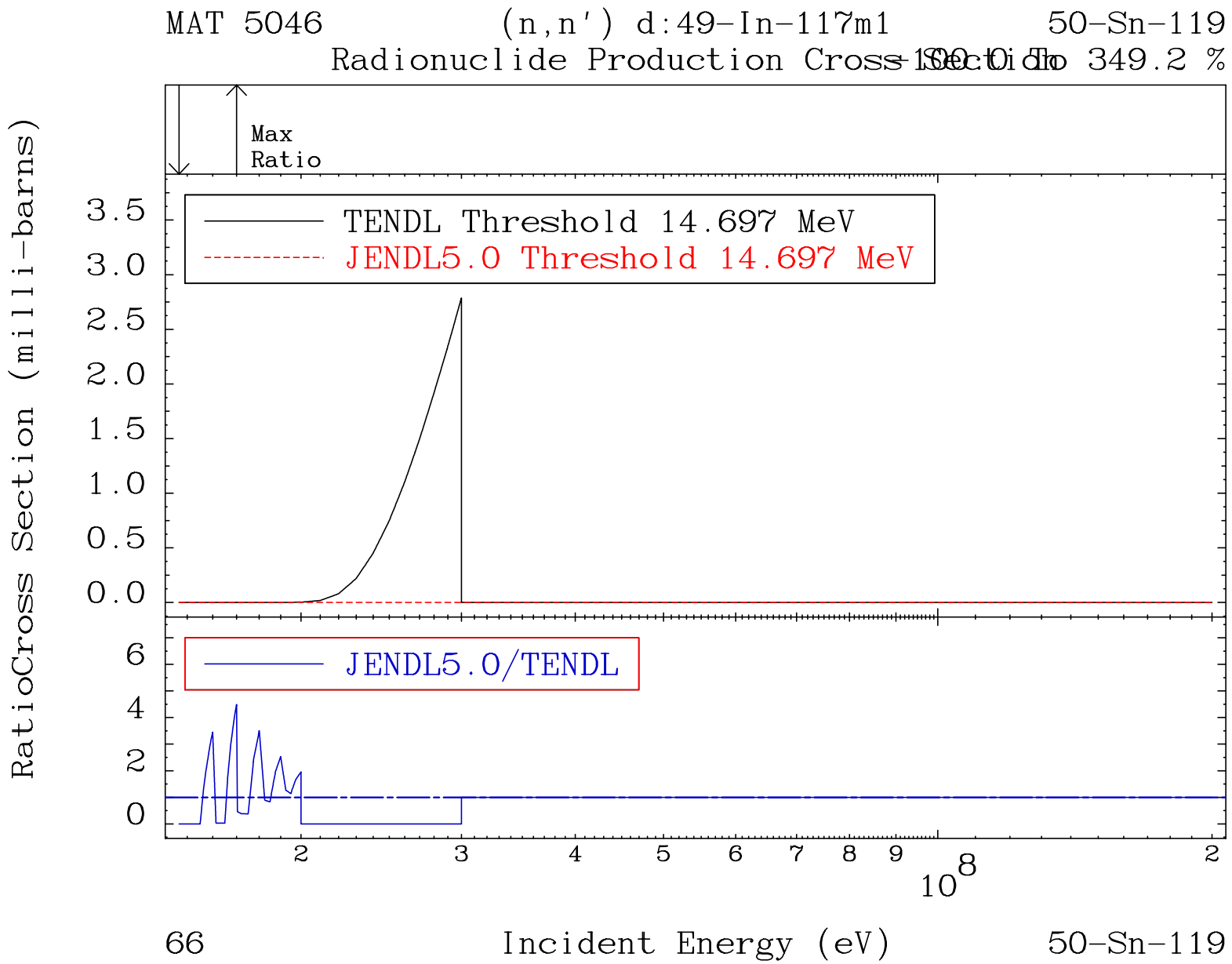

MAT 5046
(n,n') α:48-Cd-115m1
50-Sn-119
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.6253 MeV
JENDL5.0 Threshold 4.6253 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
300
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
61
Incident Energy (eV)
50-Sn-119

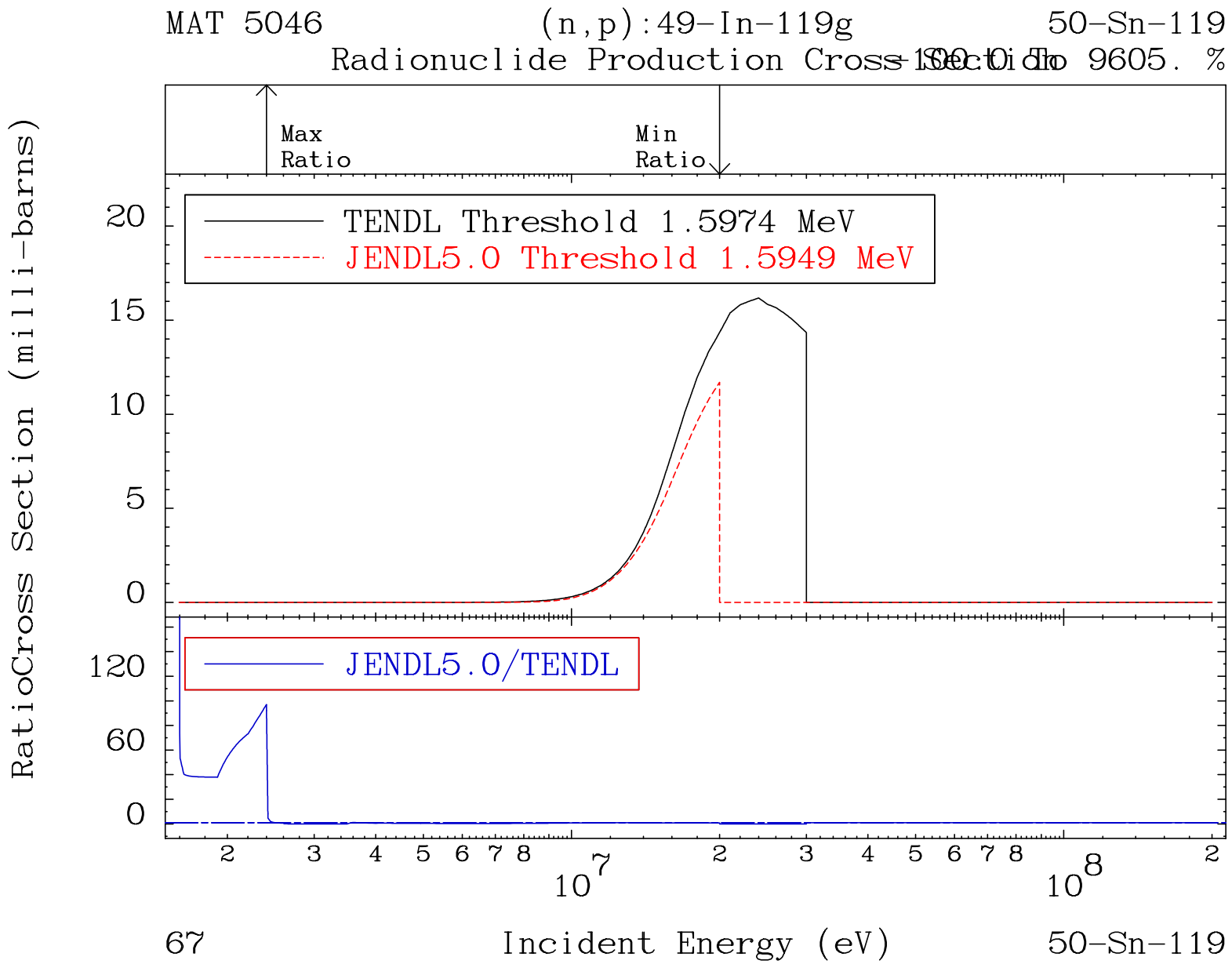

MAT 5046
(n,n') p:49-In-118g
50-Sn-119
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 10.212 MeV
JENDL5.0 Threshold 10.213 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
400
200
0
10^7
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
50-Sn-119

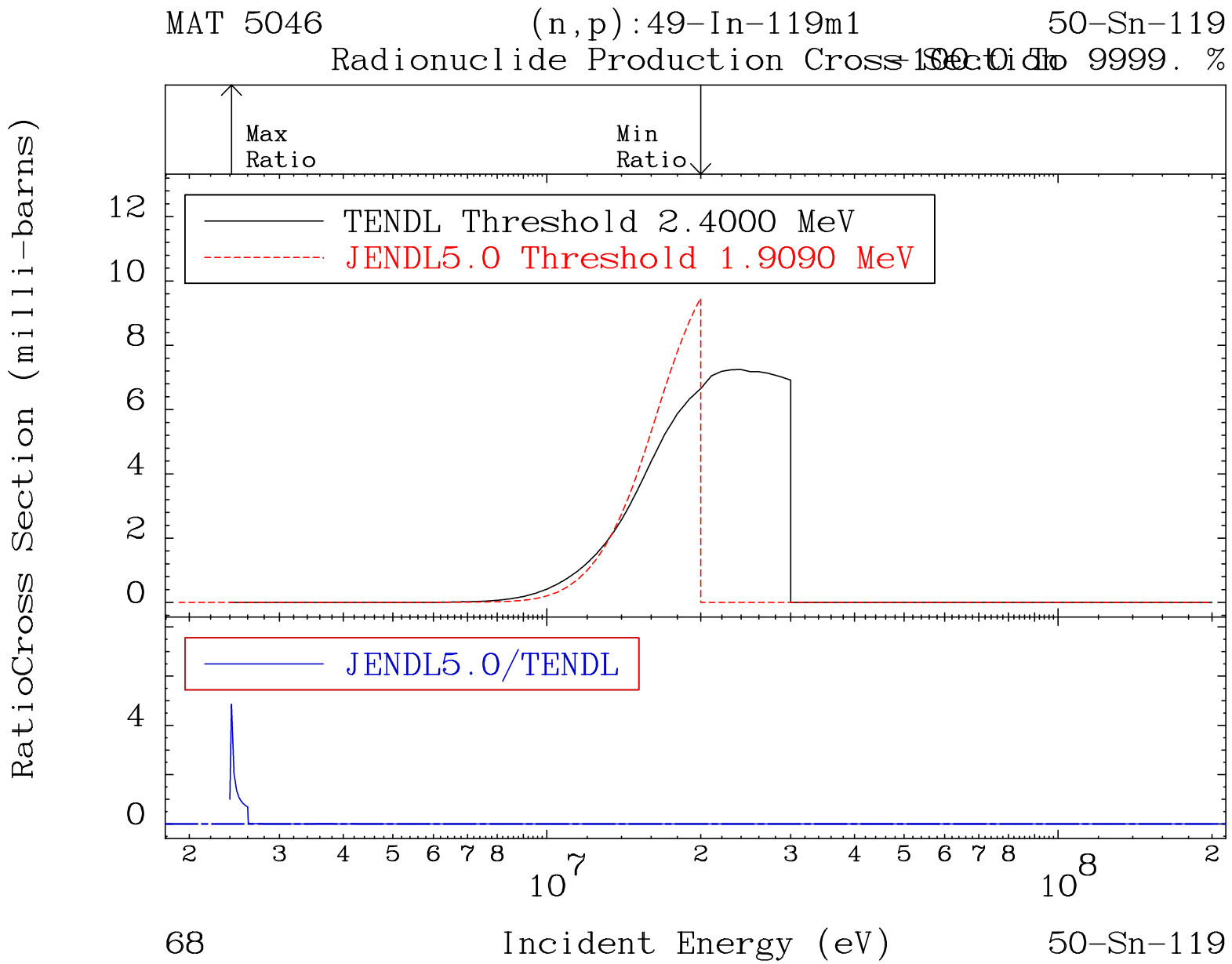

MAT 5046
(n,n') p:49-In-118m1
50-Sn-119
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 10.272 MeV
JENDL5.0 Threshold 10.273 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
20
10
0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
50-Sn-119

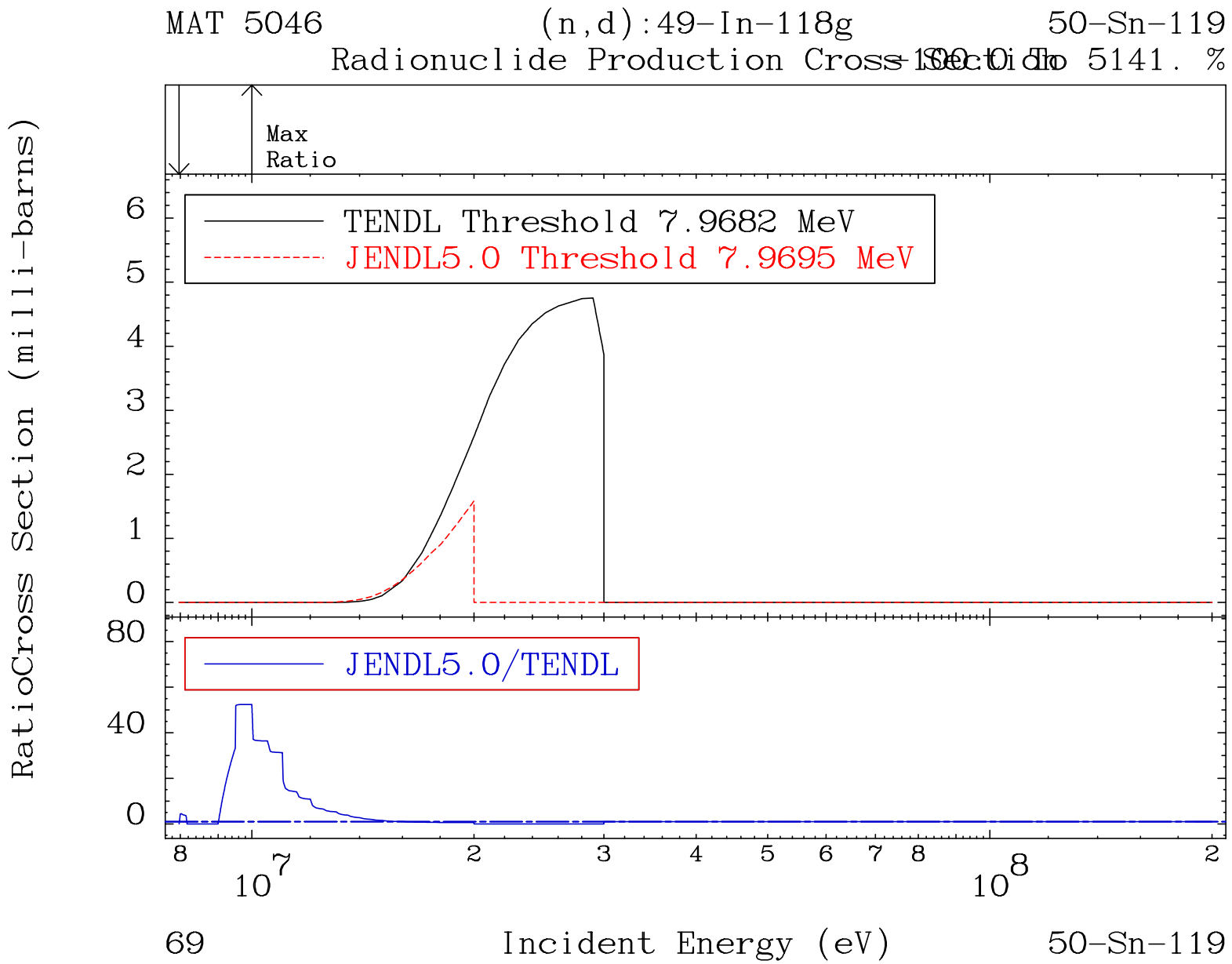

MAT 5046
(n,n') p:49-In-118m3
50-Sn-119
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.000 MeV
JENDL5.0 Threshold 10.415 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
50-Sn-119

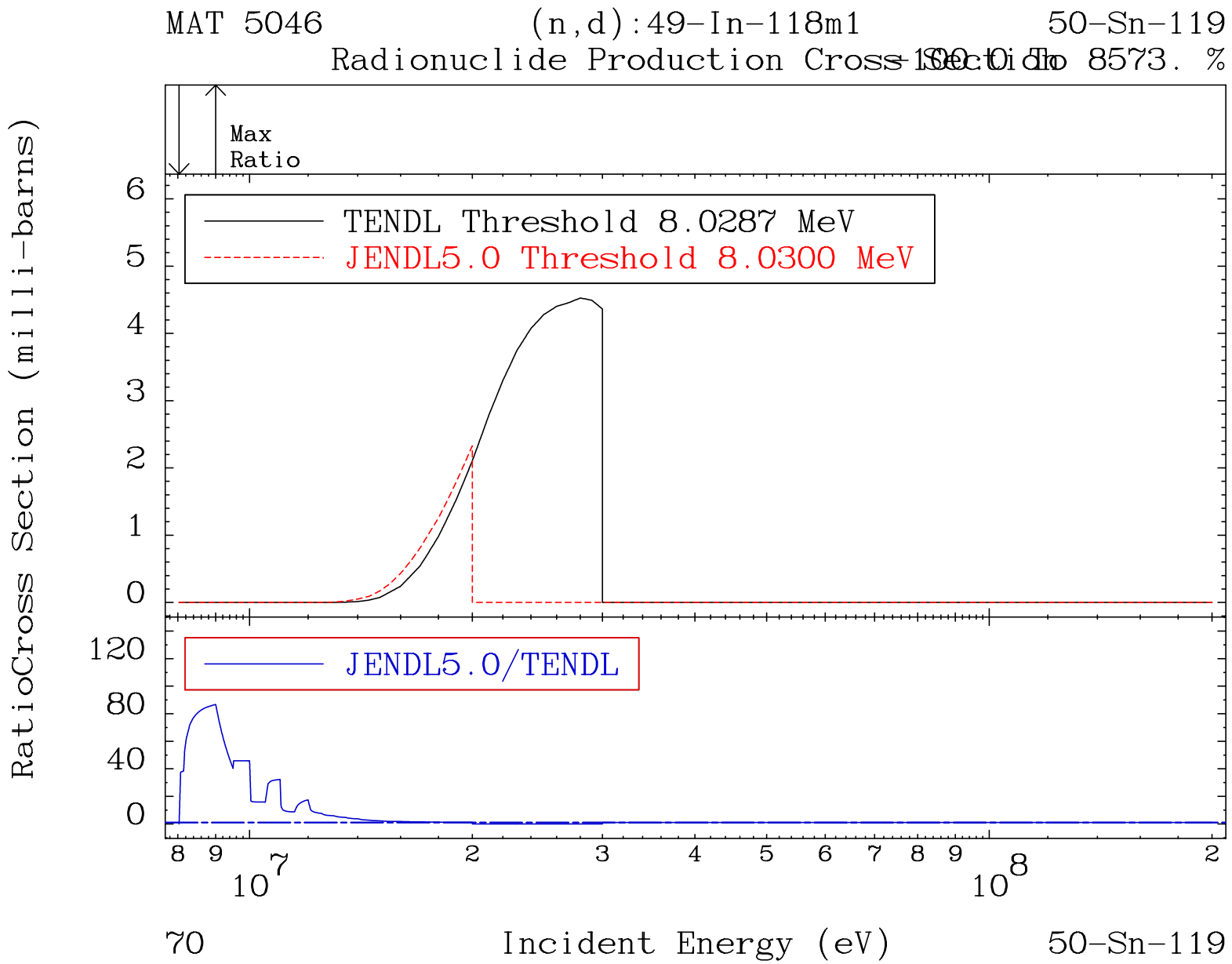

MAT 5046
(n,n') d:49-In-117g
50-Sn-119
Radionuclide Production Cross Section To 139.1 %
Max
Ratio
TENDL Threshold 14.379 MeV
JENDL5.0 Threshold 14.379 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
2
0
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
50-Sn-119

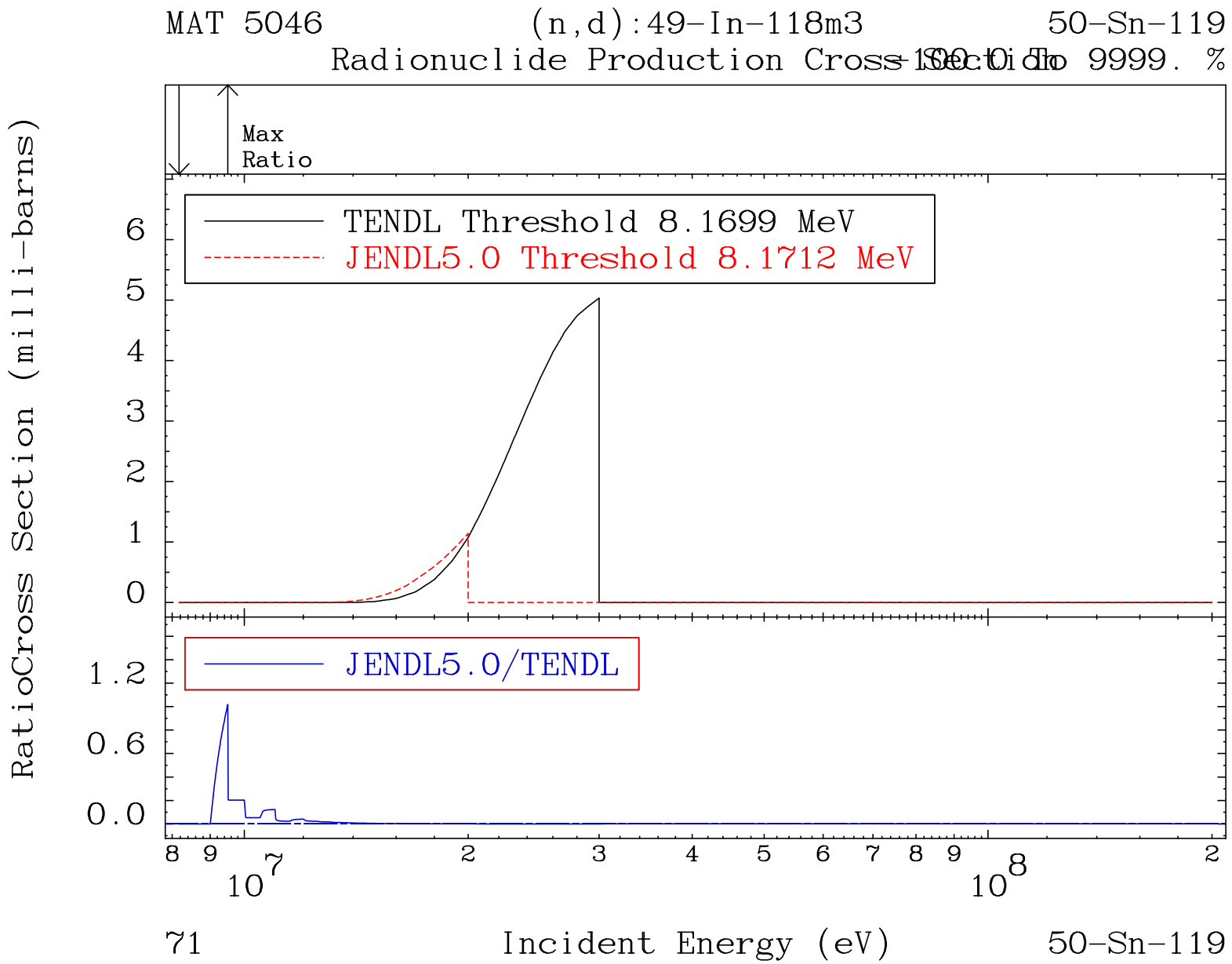

MAT 5046
(n,n') d:49-In-117m1
50-Sn-119
Radionuclide Production Cross Section To 349.2 %
Max
Ratio
TENDL Threshold 14.697 MeV
JENDL5.0 Threshold 14.697 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
50-Sn-119

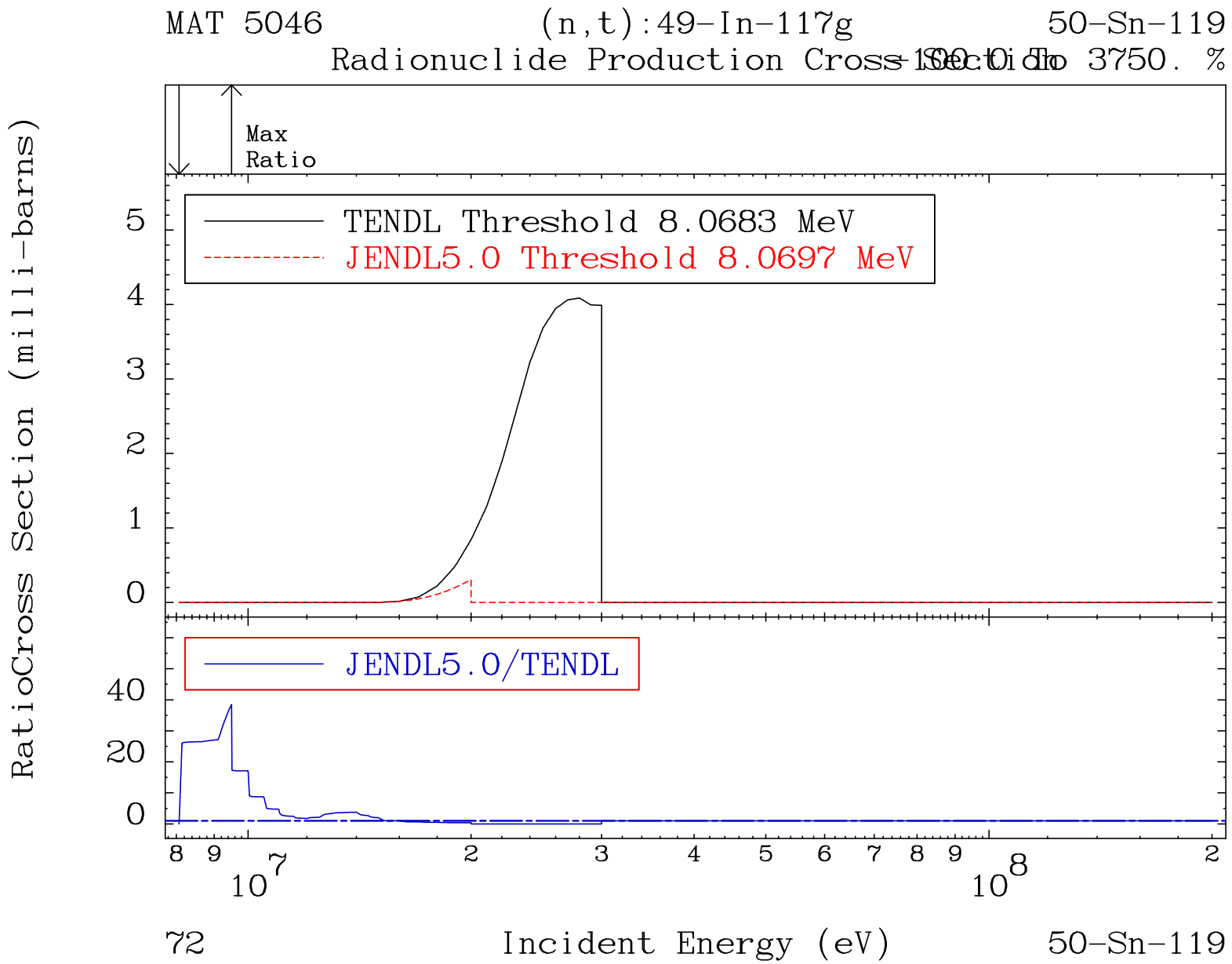

MAT 5046
(n,p):49-In-119g
50-Sn-119
Radionuclide Production Cross Section To 9605. %
Max Ratio
Min Ratio
TENDL Threshold 1.5974 MeV
JENDL5.0 Threshold 1.5949 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
120
60
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
67
Incident Energy (eV)
50-Sn-119

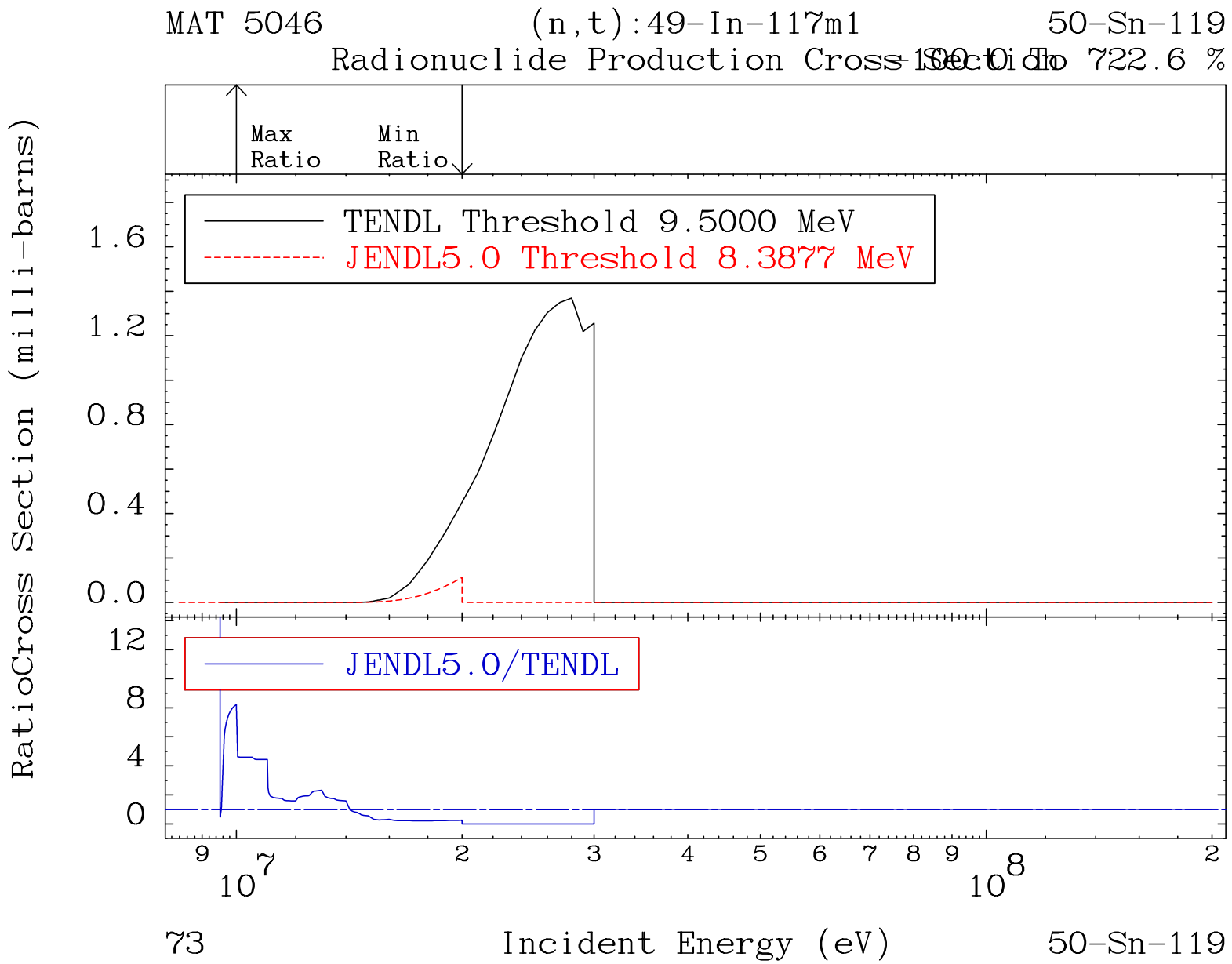

MAT 5046
(n,p):49-In-119m1
50-Sn-119
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 2.4000 MeV
JENDL5.0 Threshold 1.9090 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
68
50-Sn-119


MAT 5046
(n,d):49-In-118g
50-Sn-119
Radionuclide Production Cross Section To 5141. %
Max
Ratio
TENDL Threshold 7.9682 MeV
JENDL5.0 Threshold 7.9695 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
50-Sn-119


MAT 5046
(n,d):49-In-118m1
50-Sn-119
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.0287 MeV
JENDL5.0 Threshold 8.0300 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
50-Sn-119


MAT 5046
(n,d):49-In-118m3
50-Sn-119
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 8.1699 MeV
JENDL5.0 Threshold 8.1712 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
50-Sn-119


MAT 5046
(n,t):49-In-117g
50-Sn-119
Radionuclide Production Cross Section To 3750. %
Max
Ratio
TENDL Threshold 8.0683 MeV
JENDL5.0 Threshold 8.0697 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
50-Sn-119


MAT 5046
(n,t):49-In-117m1
50-Sn-119
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.5000 MeV
JENDL5.0 Threshold 8.3877 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
50-Sn-119