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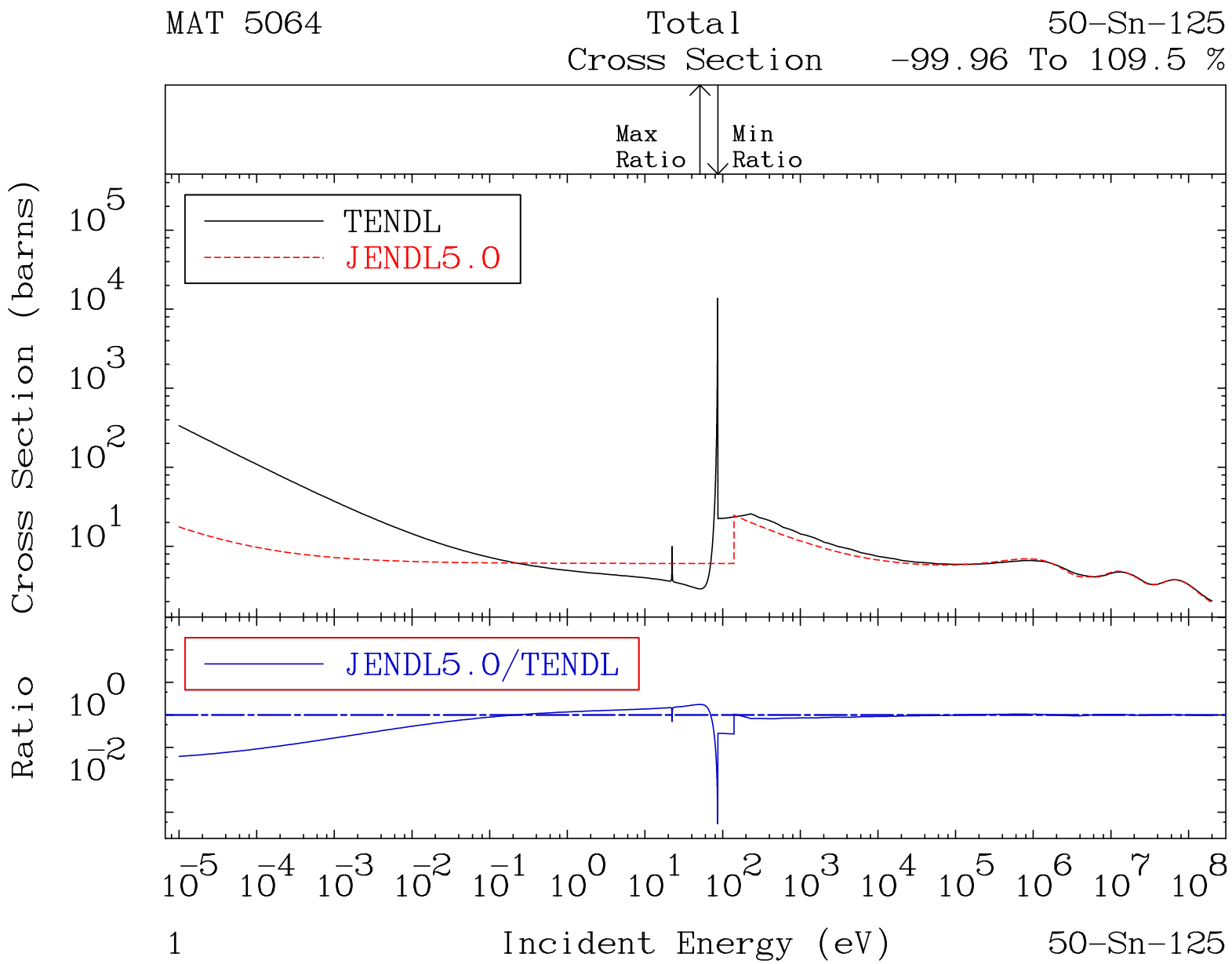
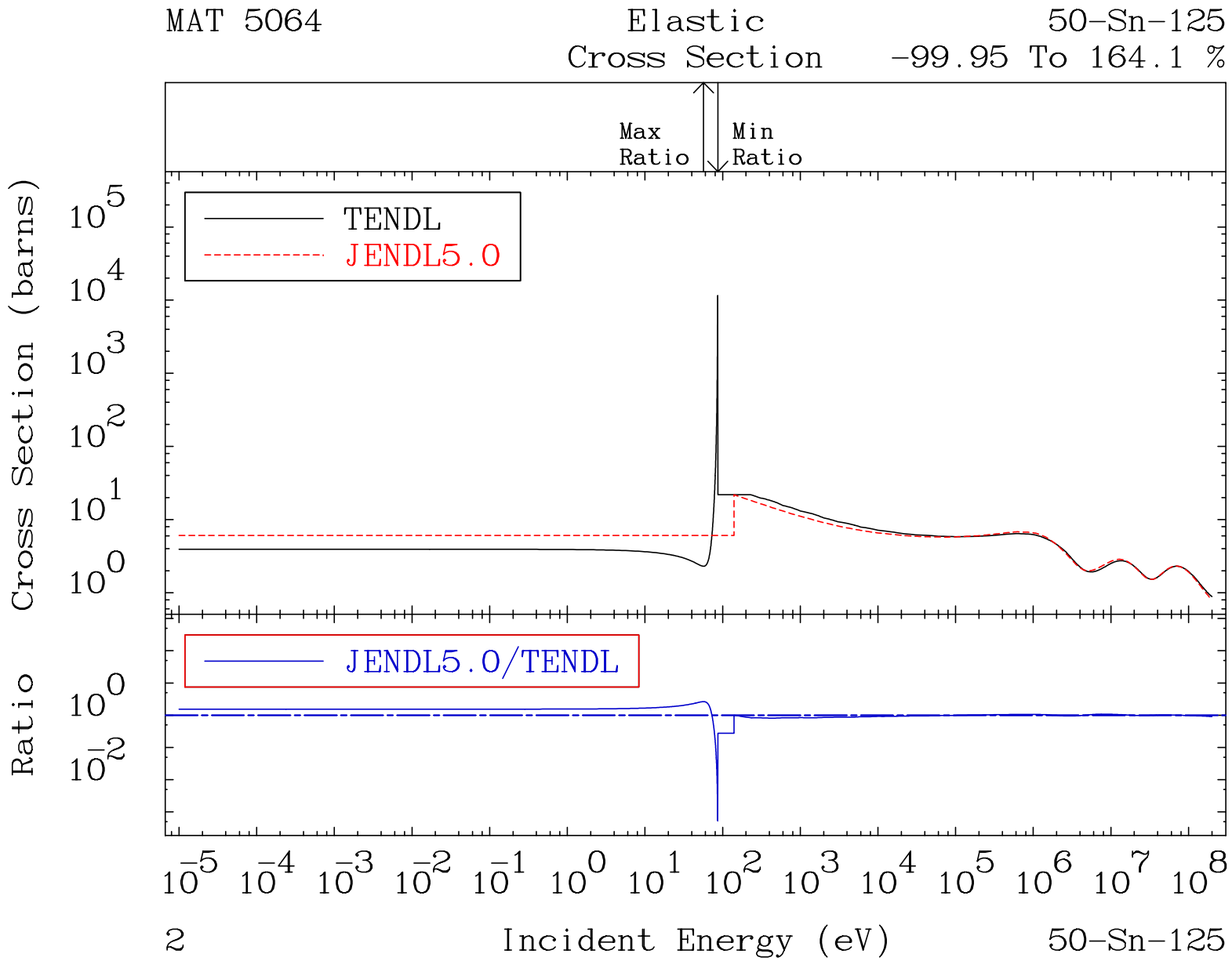
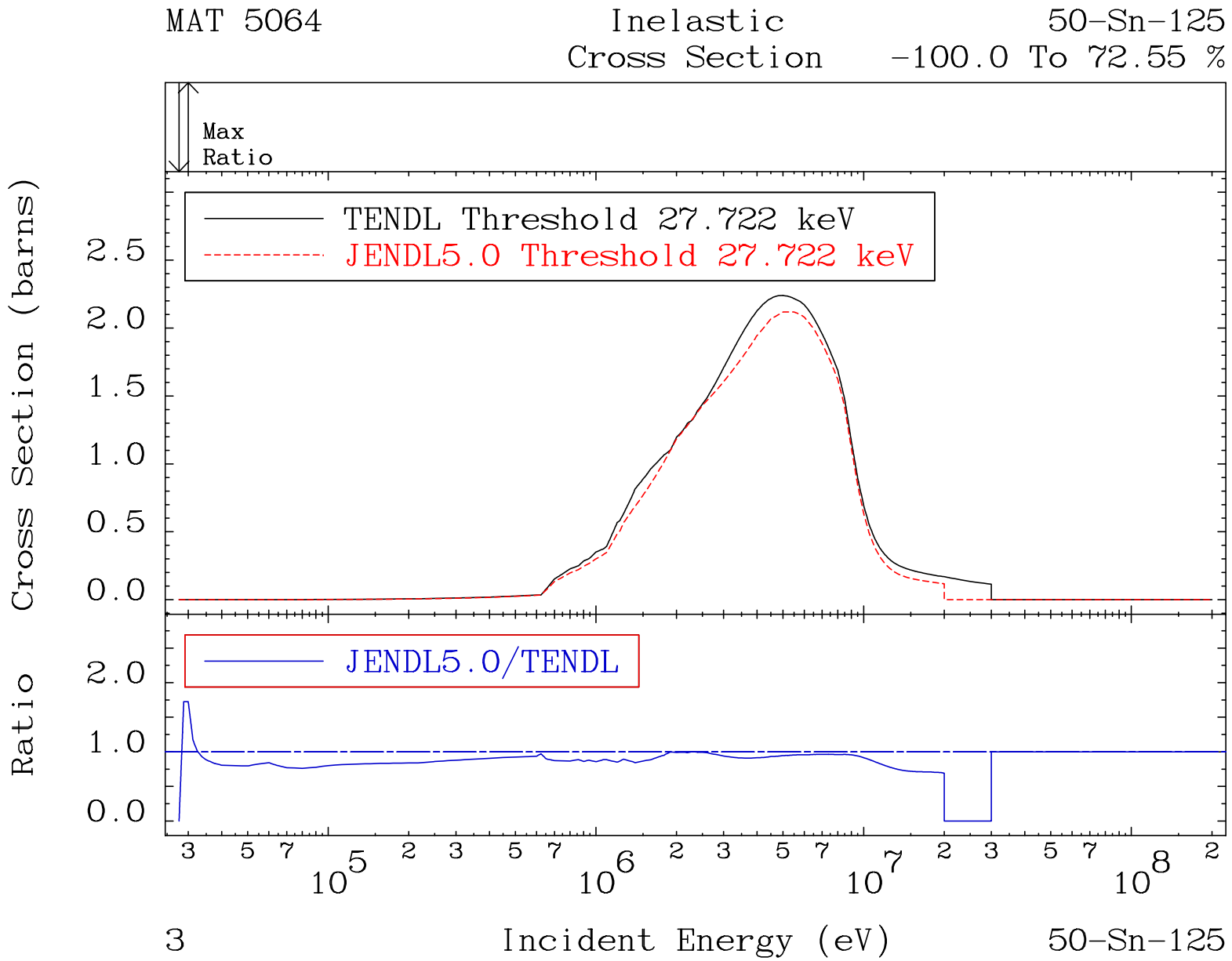
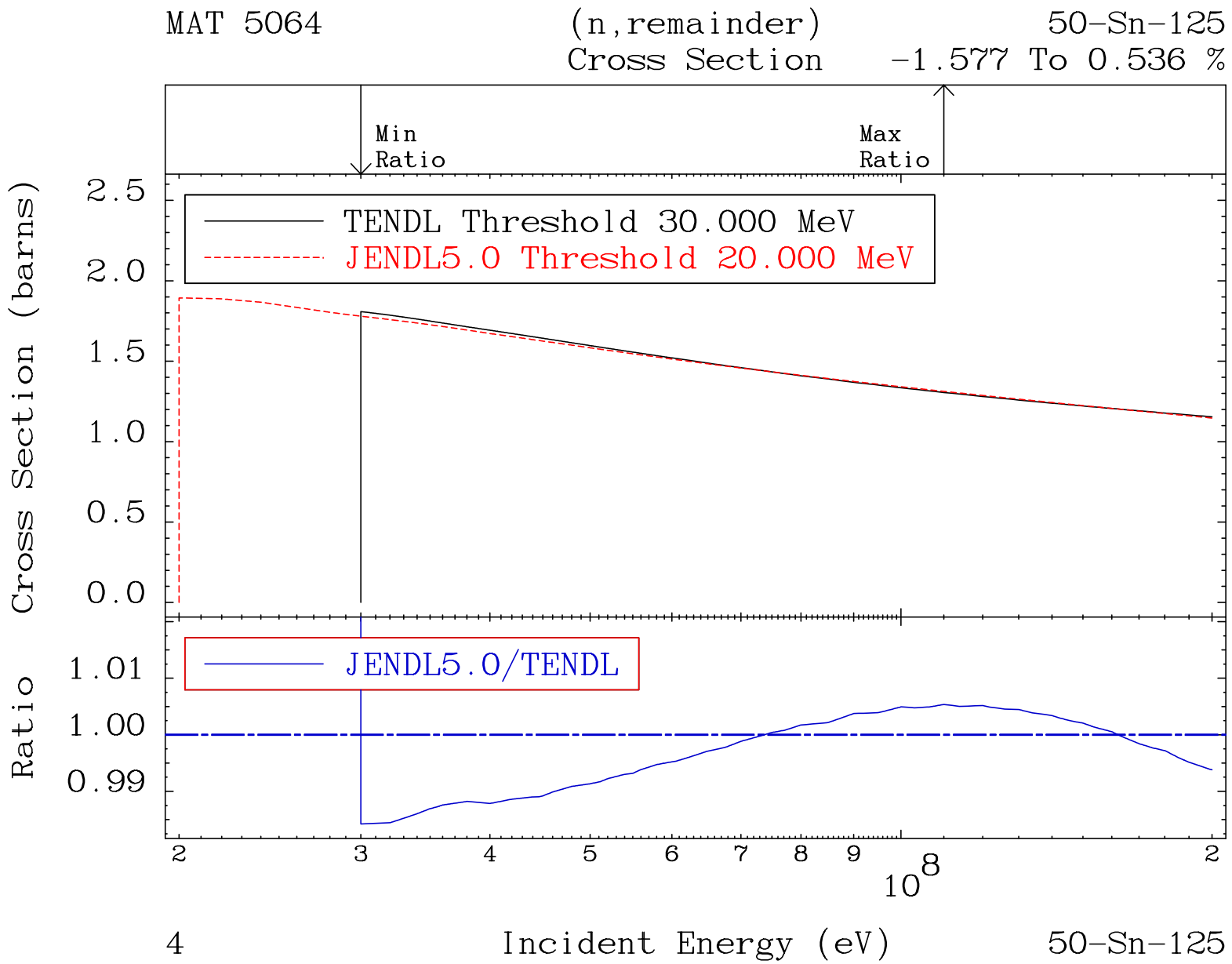
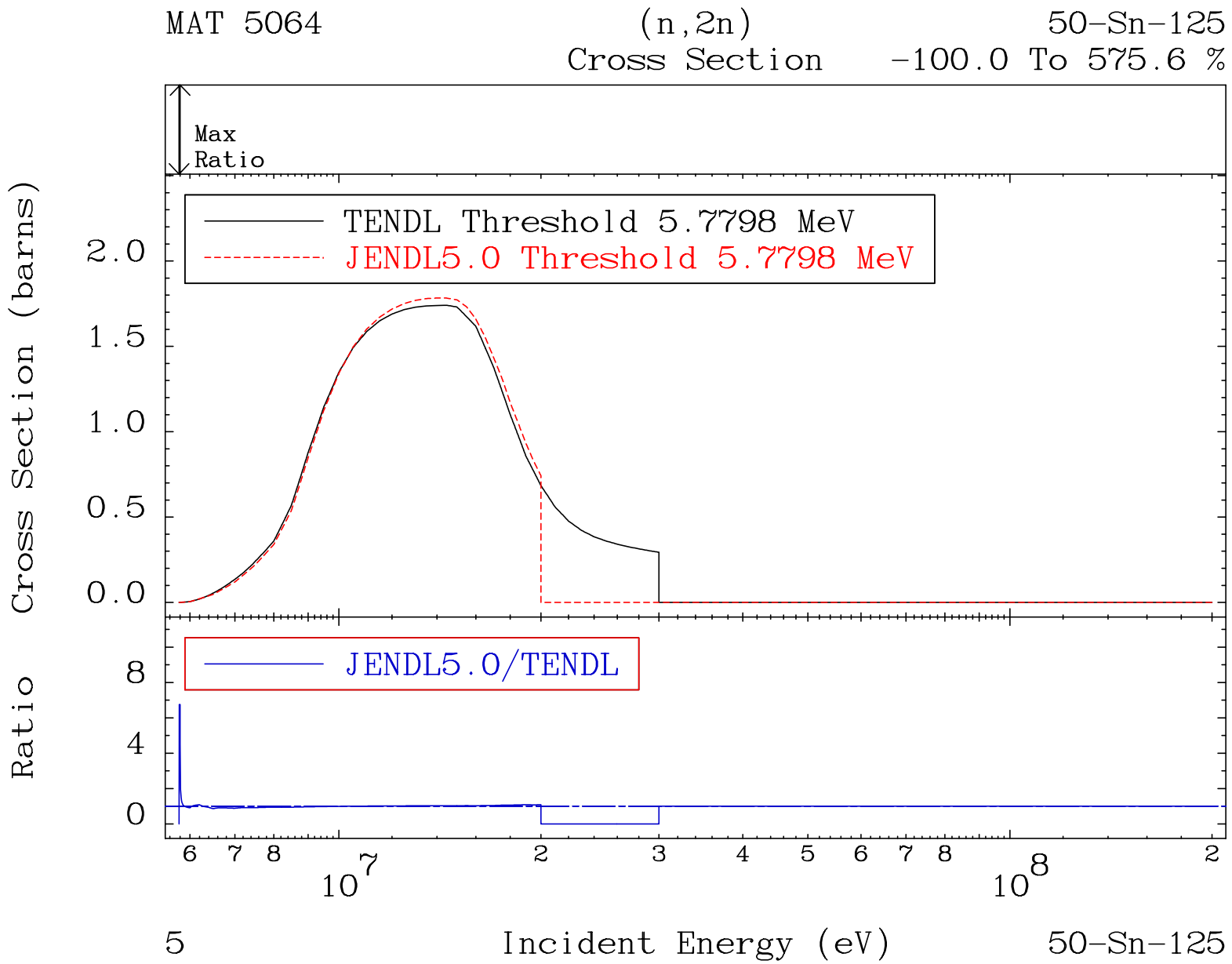
Press Mouse Button to Start

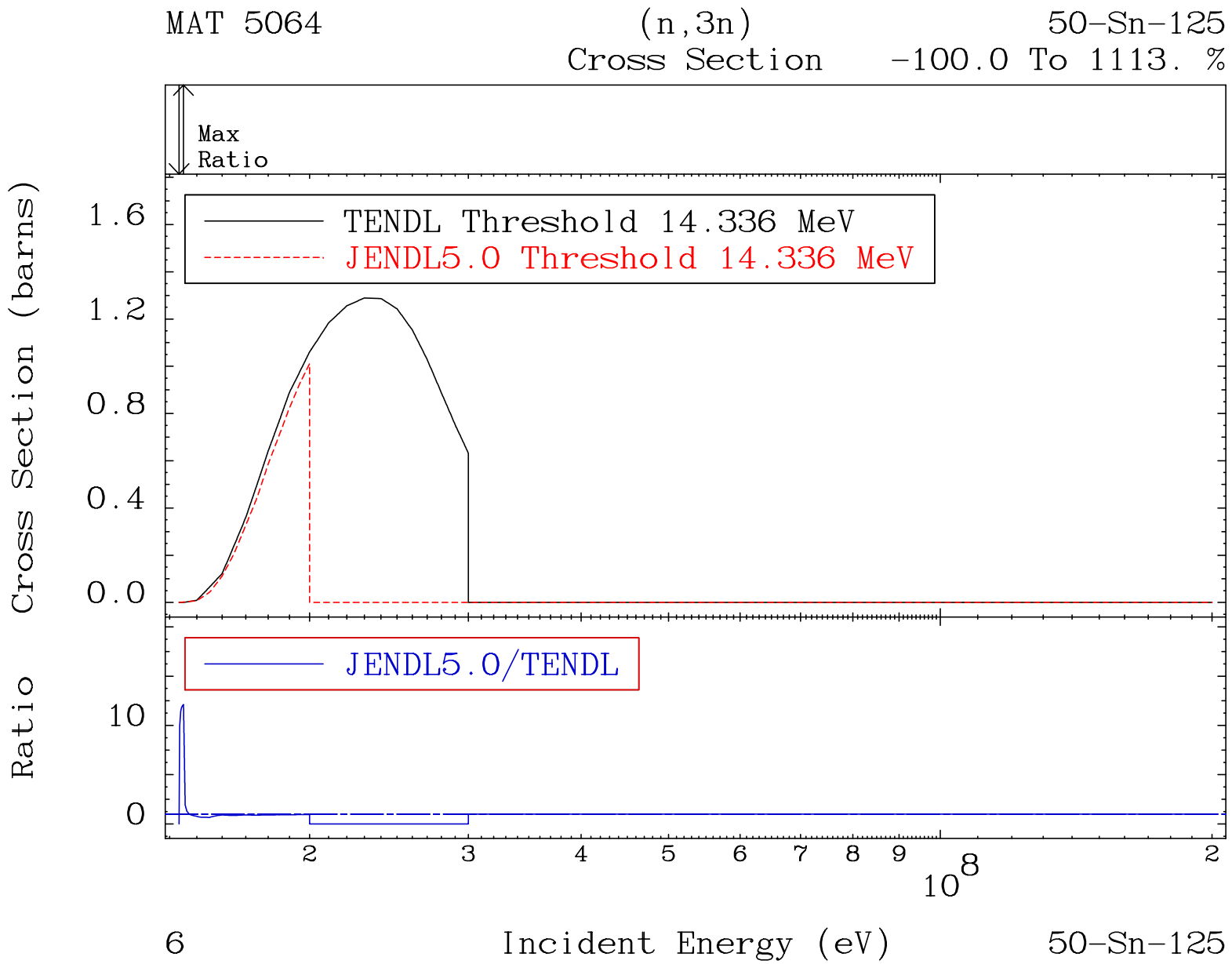

MAT 5064
Total
Cross Section
50-Sn-125
-99.96 To 109.5 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
50-Sn-125

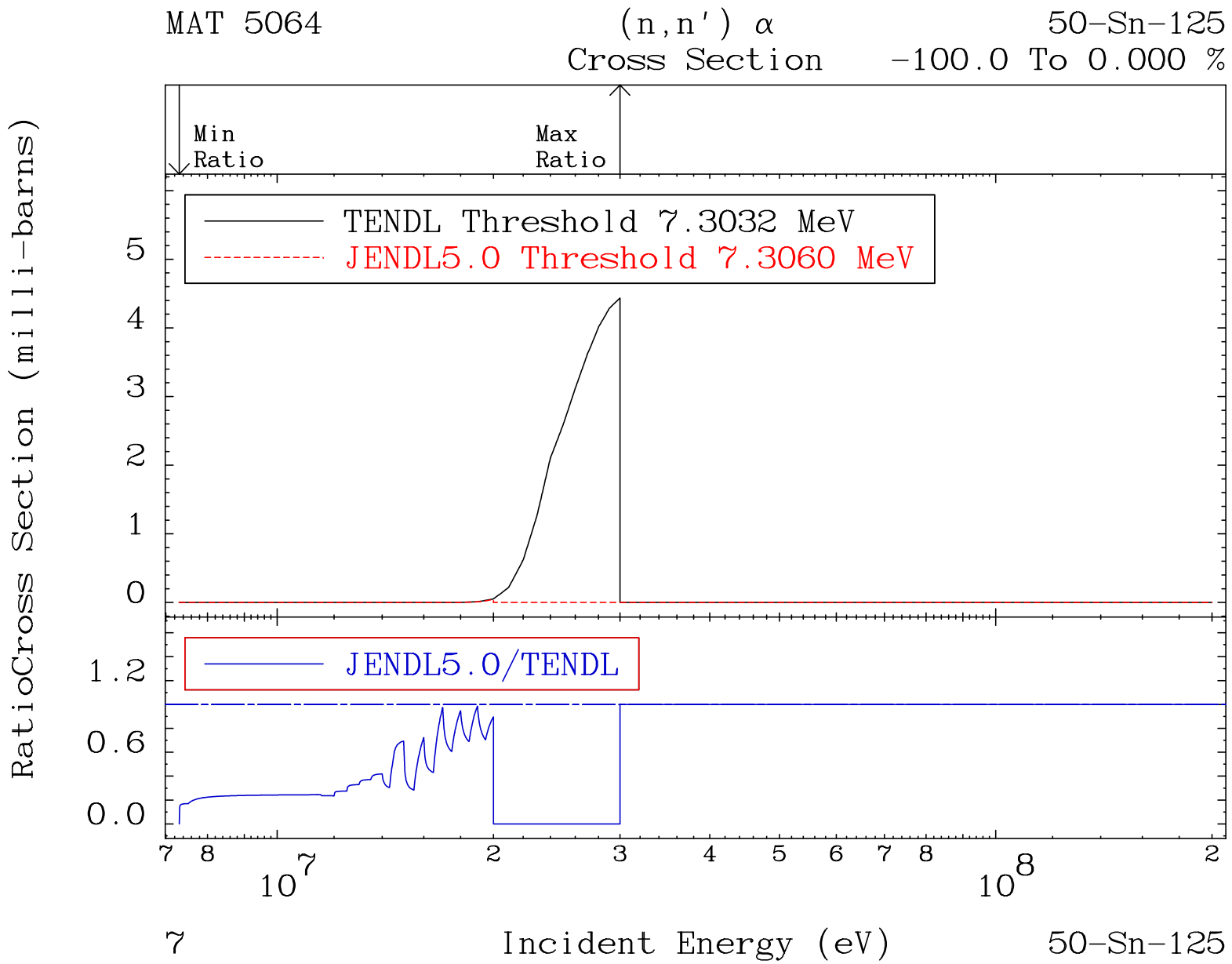

MAT 5064
Elastic
Cross Section
50-Sn-125
-99.95 To 164.1 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
50-Sn-125

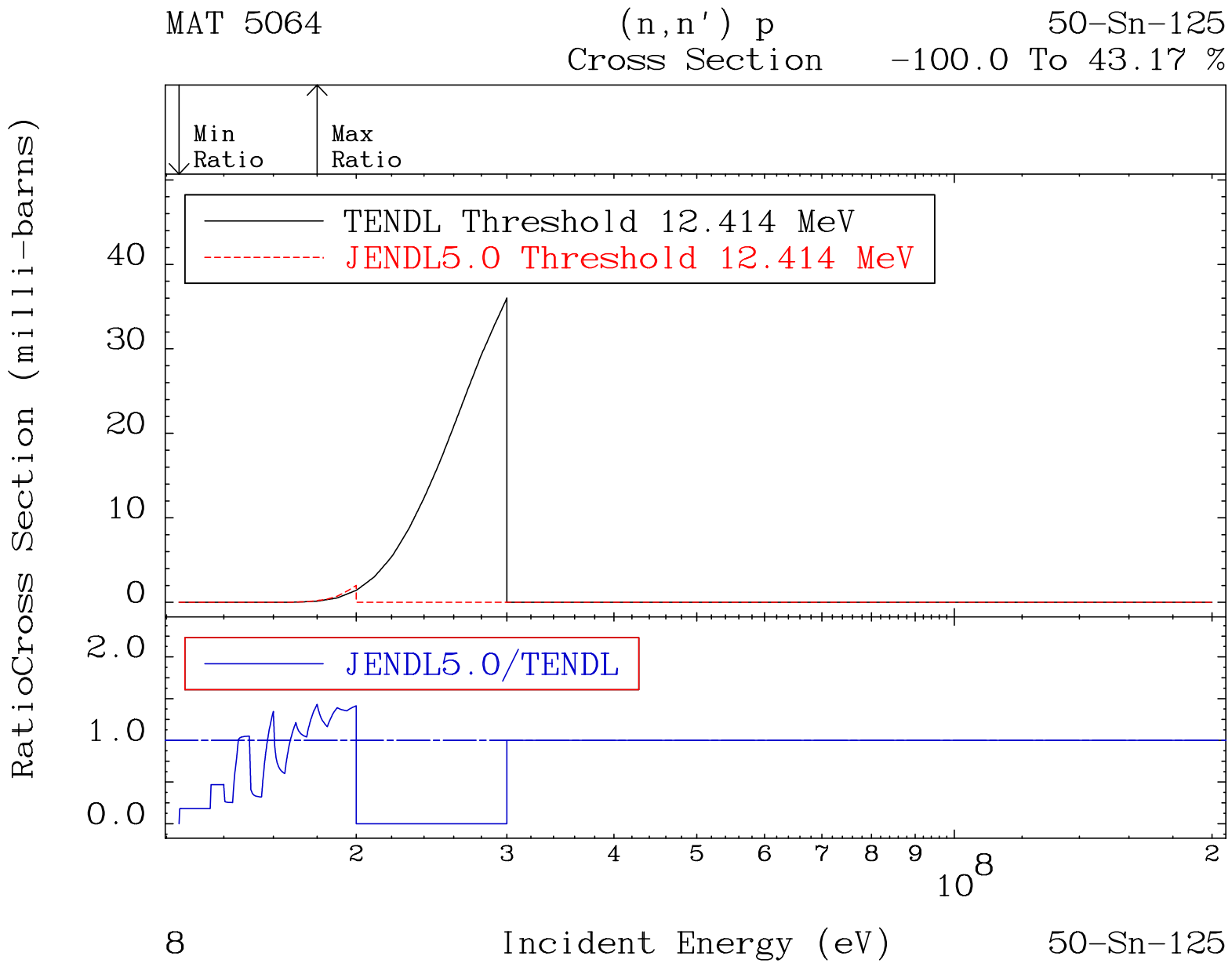

MAT 5064
Inelastic
Cross Section
50-Sn-125
-100.0 To 72.55 %
Max
Ratio
TENDL Threshold 27.722 keV
JENDL5.0 Threshold 27.722 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
3
Incident Energy (eV)
50-Sn-125

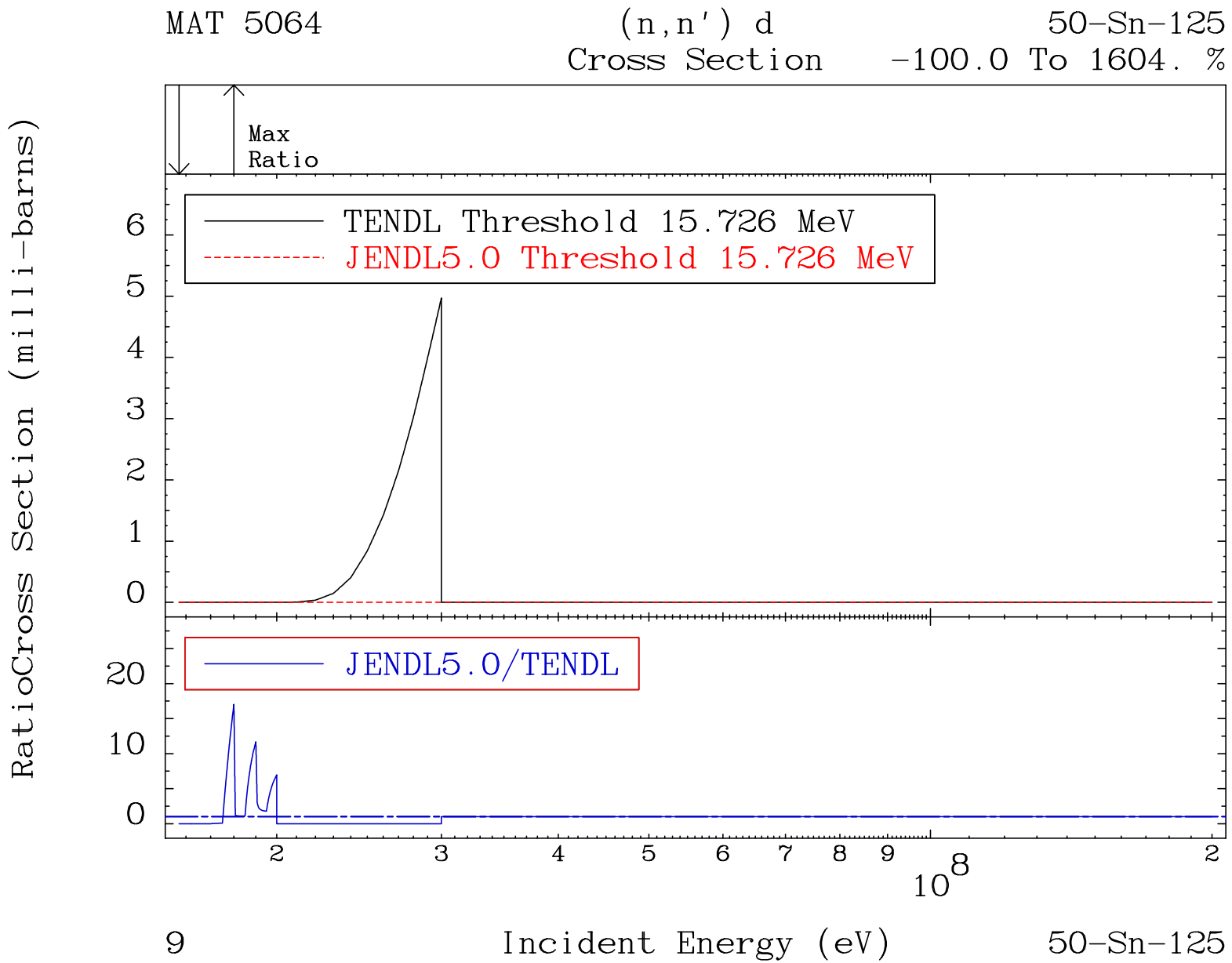

MAT 5064
(n,remainder)
Cross Section
50-Sn-125
-1.577 To 0.536 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
50-Sn-125

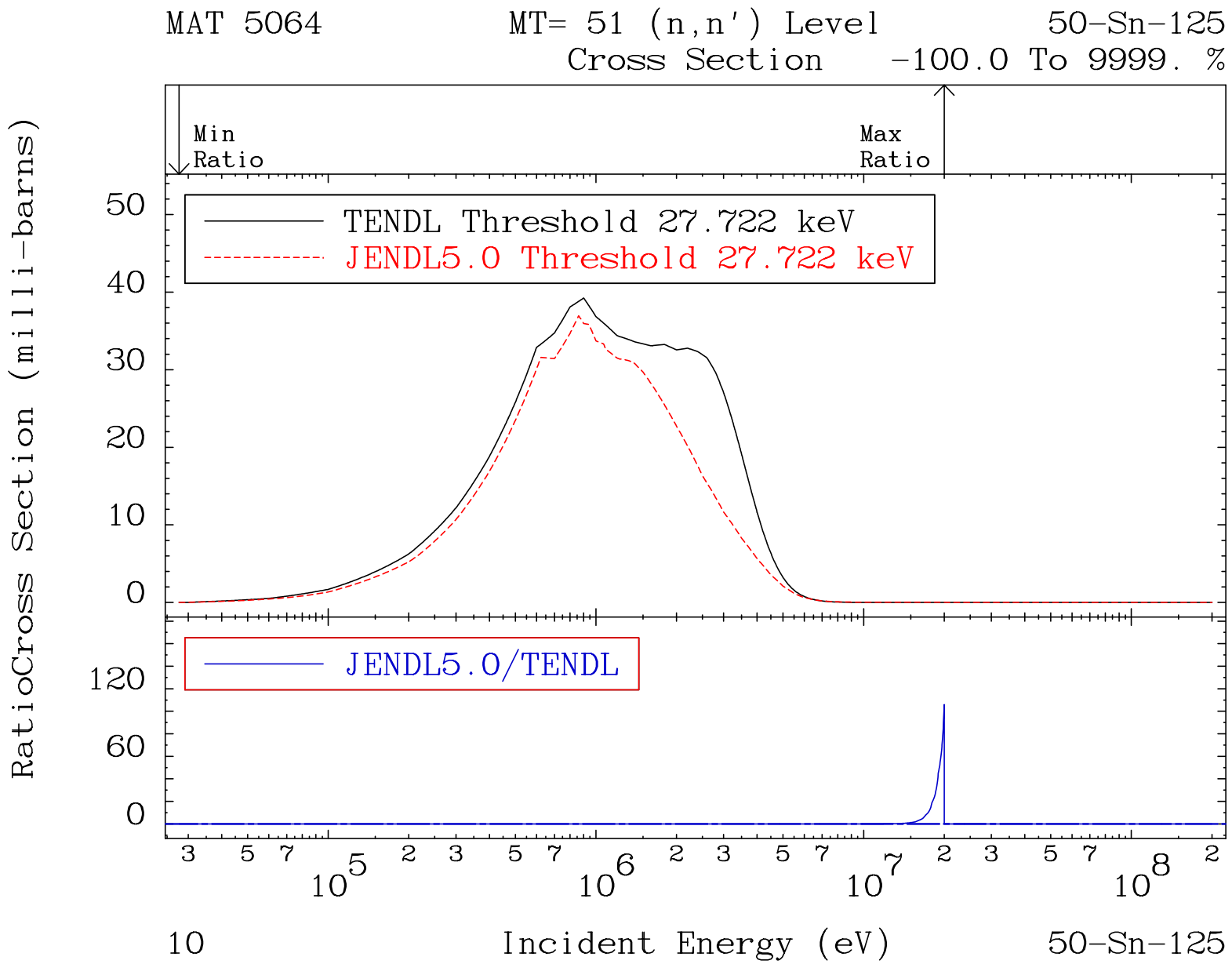

MAT 5064
(n,2n)
Cross Section
50-Sn-125
-100.0 To 575.6 %
Max
Ratio
TENDL Threshold 5.7798 MeV
JENDL5.0 Threshold 5.7798 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
8
4
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
5
Incident Energy (eV)
50-Sn-125

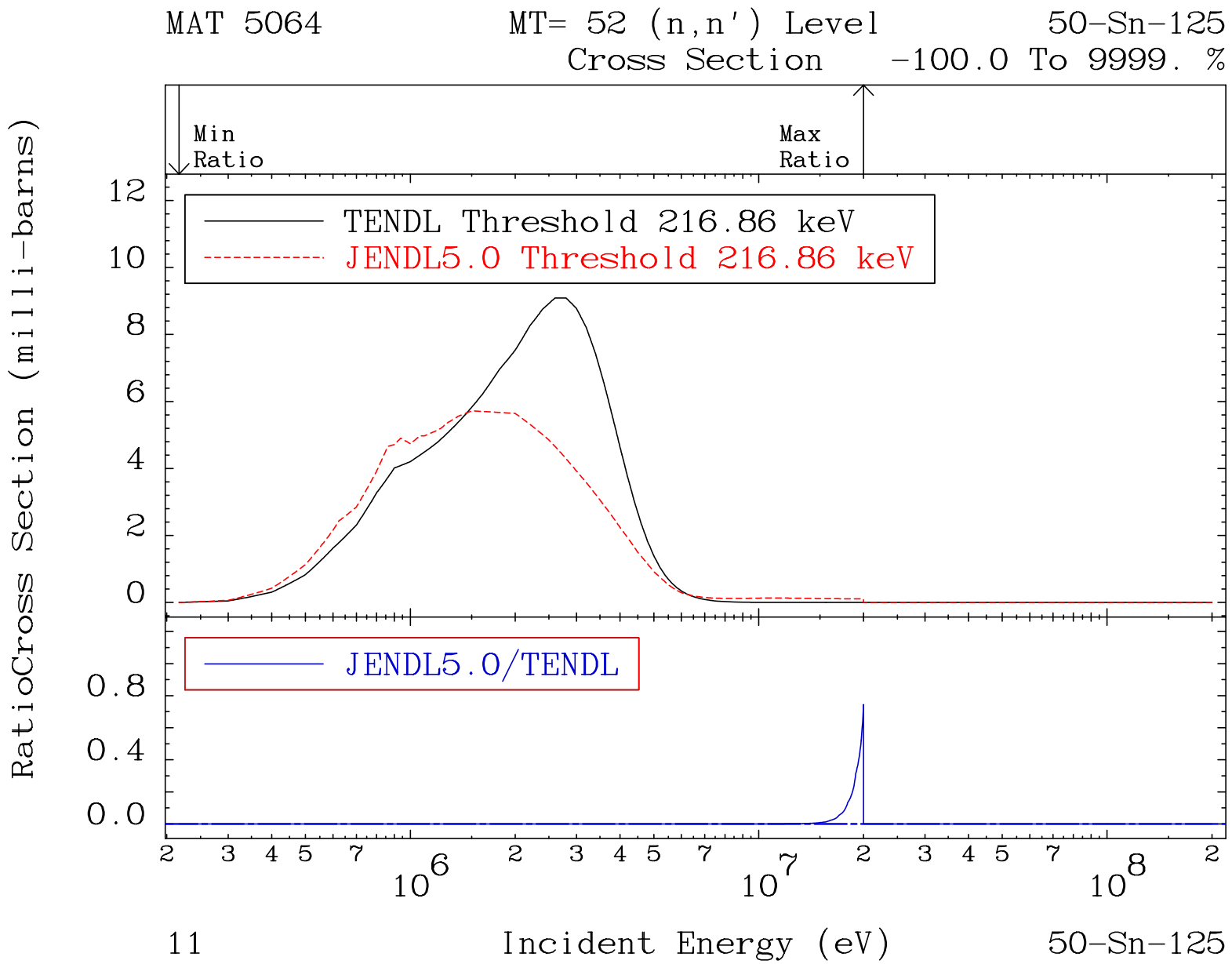

MAT 5064
(n,3n)
50-Sn-125
Cross Section
-100.0 To 1113. %
Max
Ratio
TENDL Threshold 14.336 MeV
JENDL5.0 Threshold 14.336 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
10
0
2
3
4
5
6
7
8
9
2
10^8
6
Incident Energy (eV)
50-Sn-125

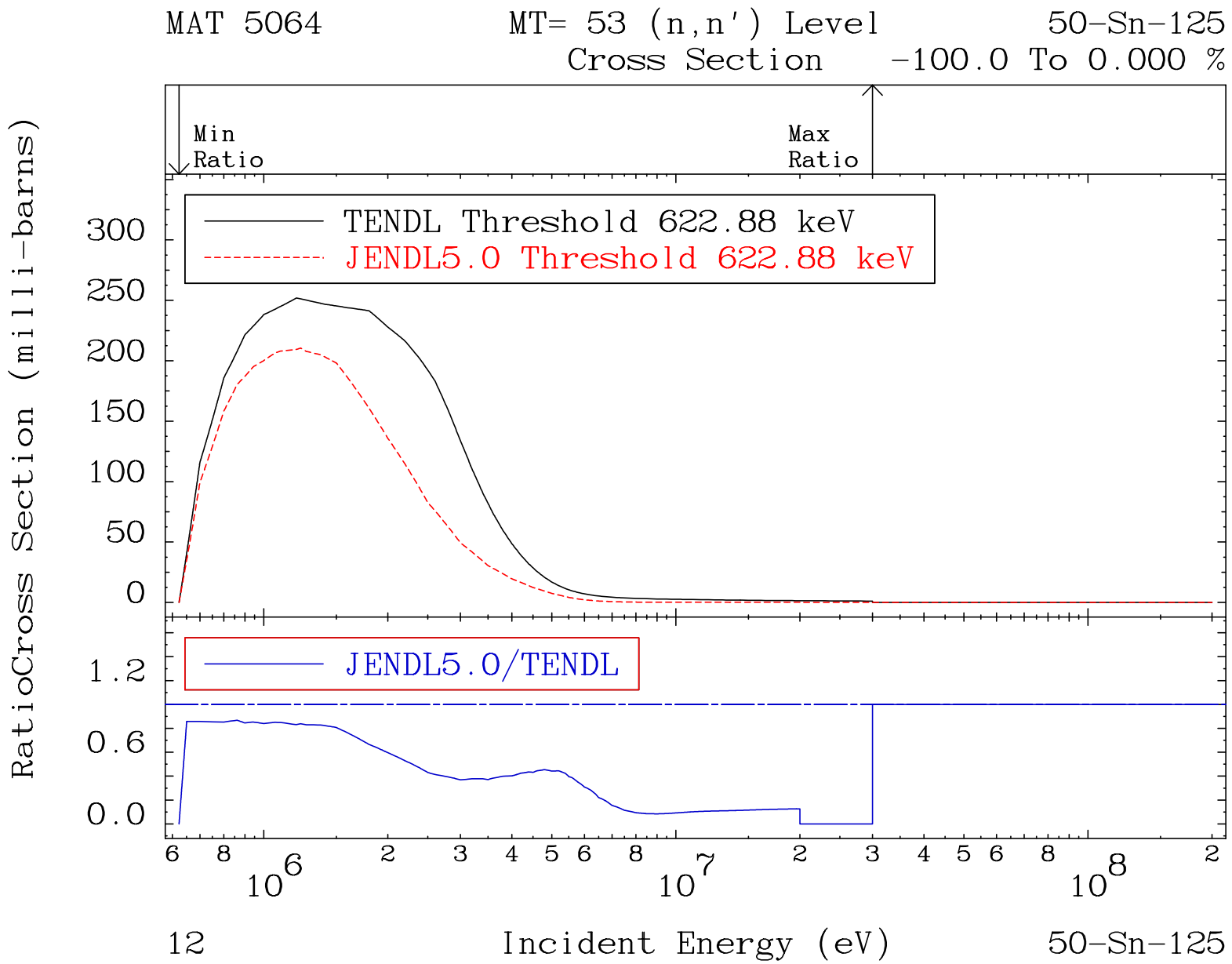

MAT 5064
(n,n') α
Cross Section
50-Sn-125
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.3032 MeV
JENDL5.0 Threshold 7.3060 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50-Sn-125

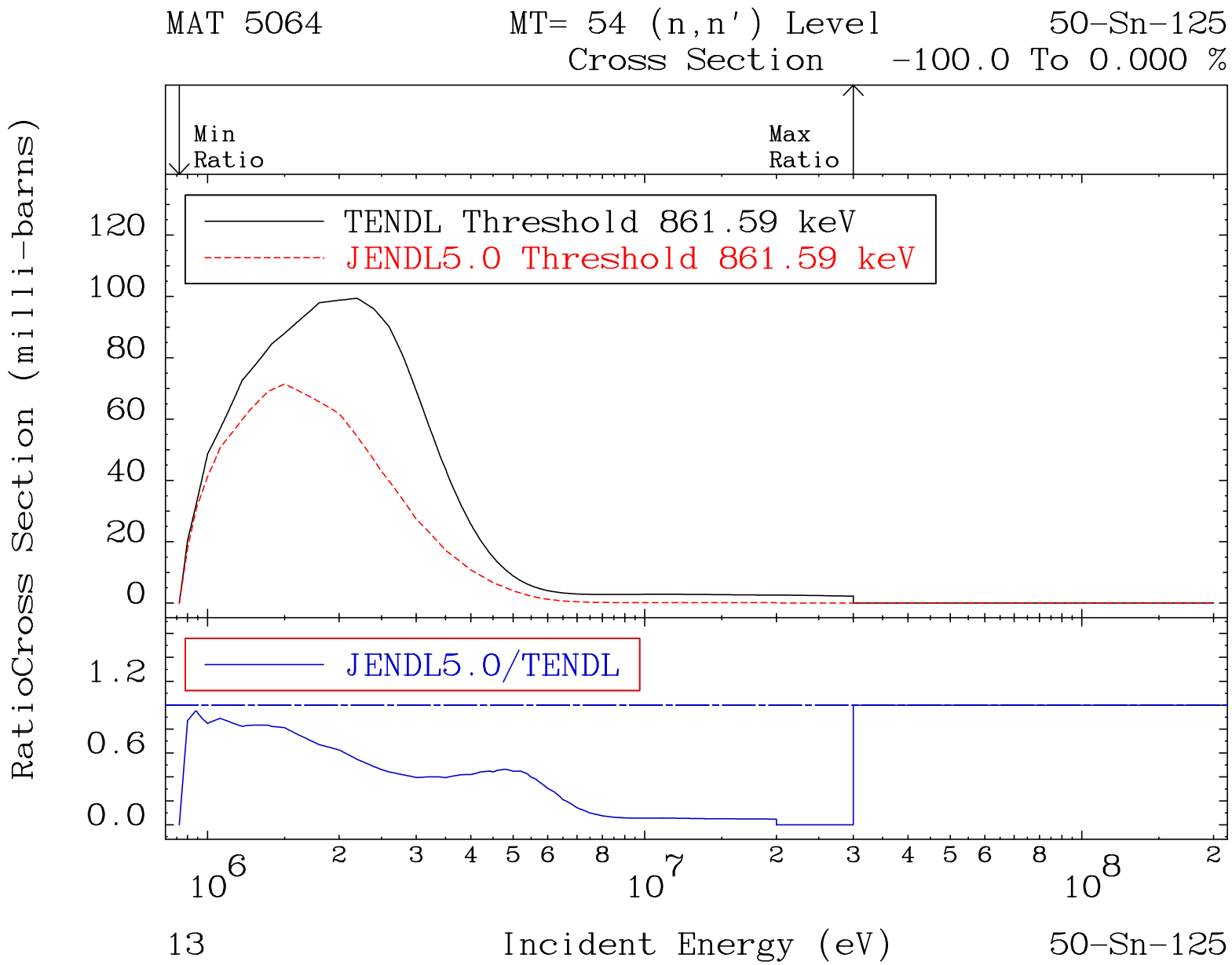

MAT 5064
(n,n') p
Cross Section
50-Sn-125
-100.0 To 43.17 %
Min Ratio
Max Ratio
TENDL Threshold 12.414 MeV
JENDL5.0 Threshold 12.414 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
50-Sn-125

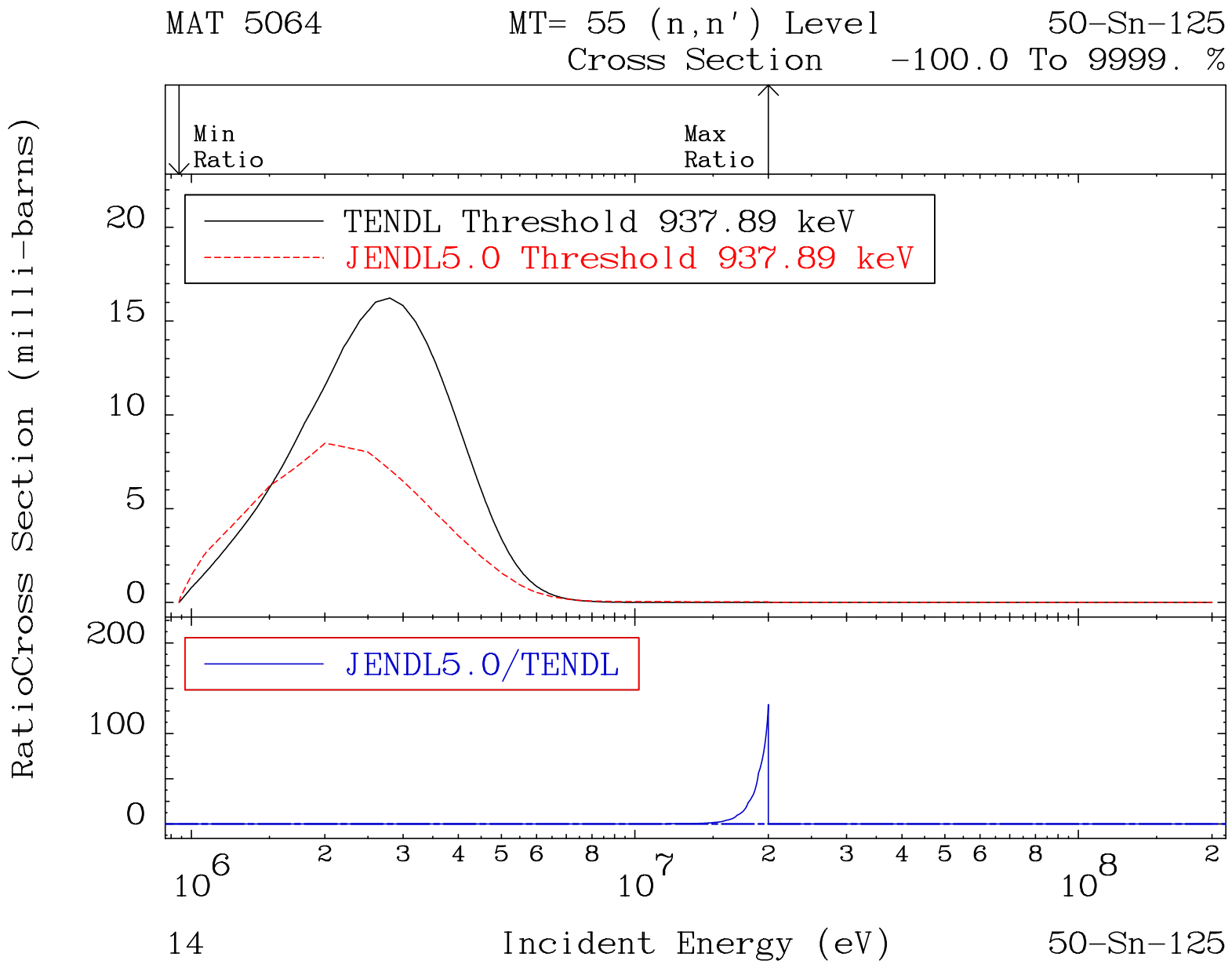

MAT 5064
(n,n') d
Cross Section
50-Sn-125
-100.0 To 1604. %
Max
Ratio
TENDL Threshold 15.726 MeV
JENDL5.0 Threshold 15.726 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
50-Sn-125

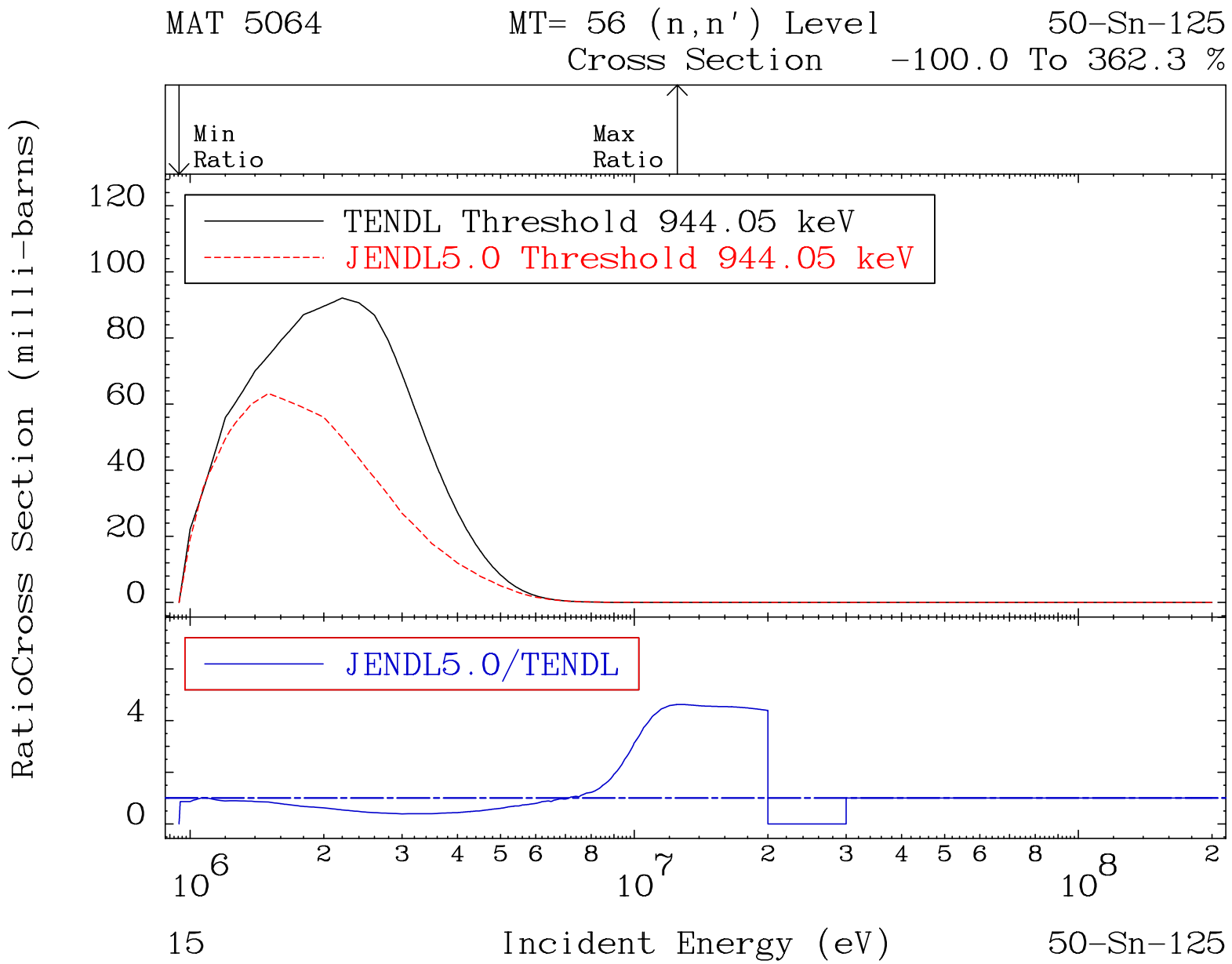

MAT 5064
MT= 51 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 27.722 keV
JENDL5.0 Threshold 27.722 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10
50-Sn-125

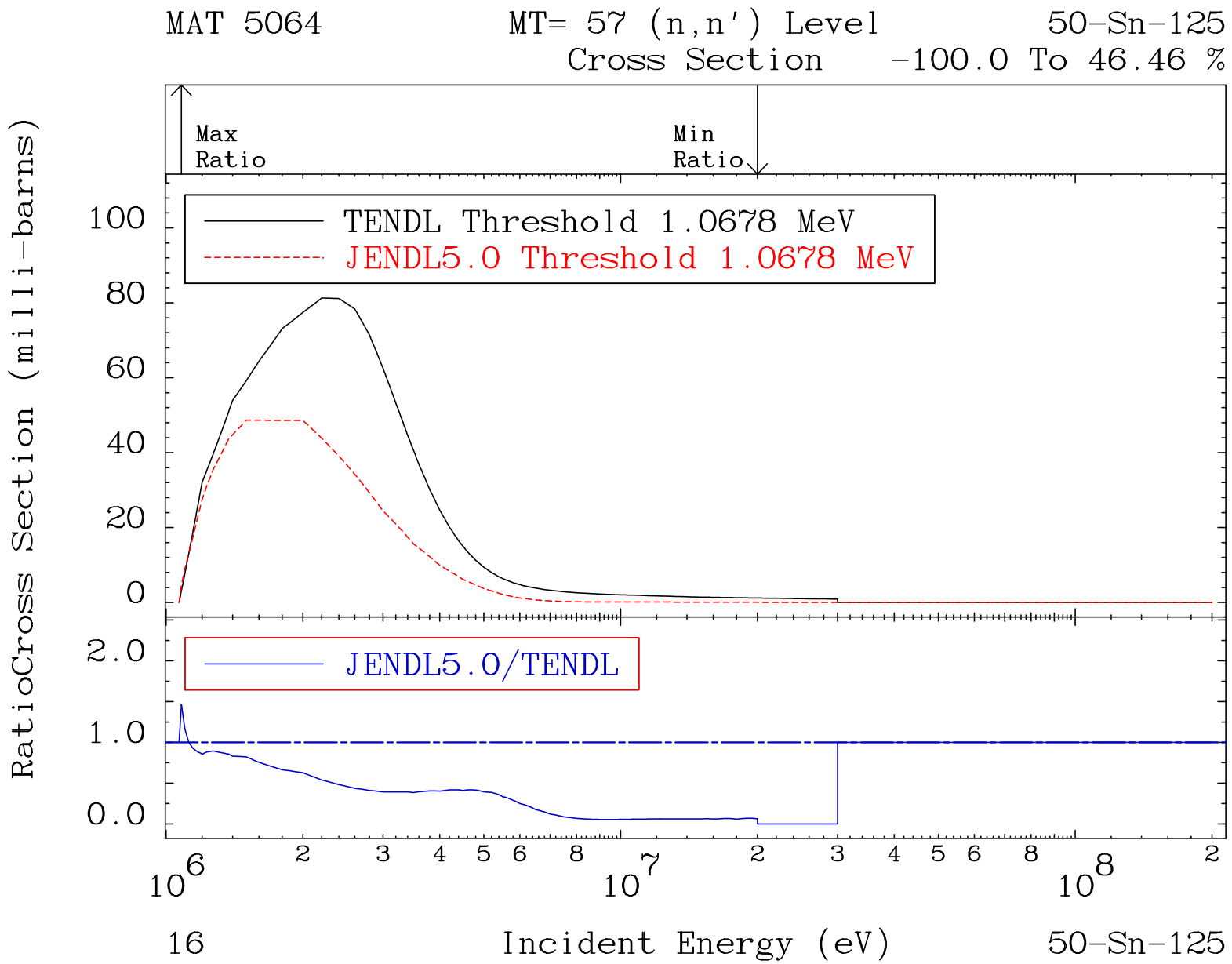

MAT 5064
MT= 52 (n,n') Level
50-Sn-125
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 216.86 keV
JENDL5.0 Threshold 216.86 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
50-Sn-125

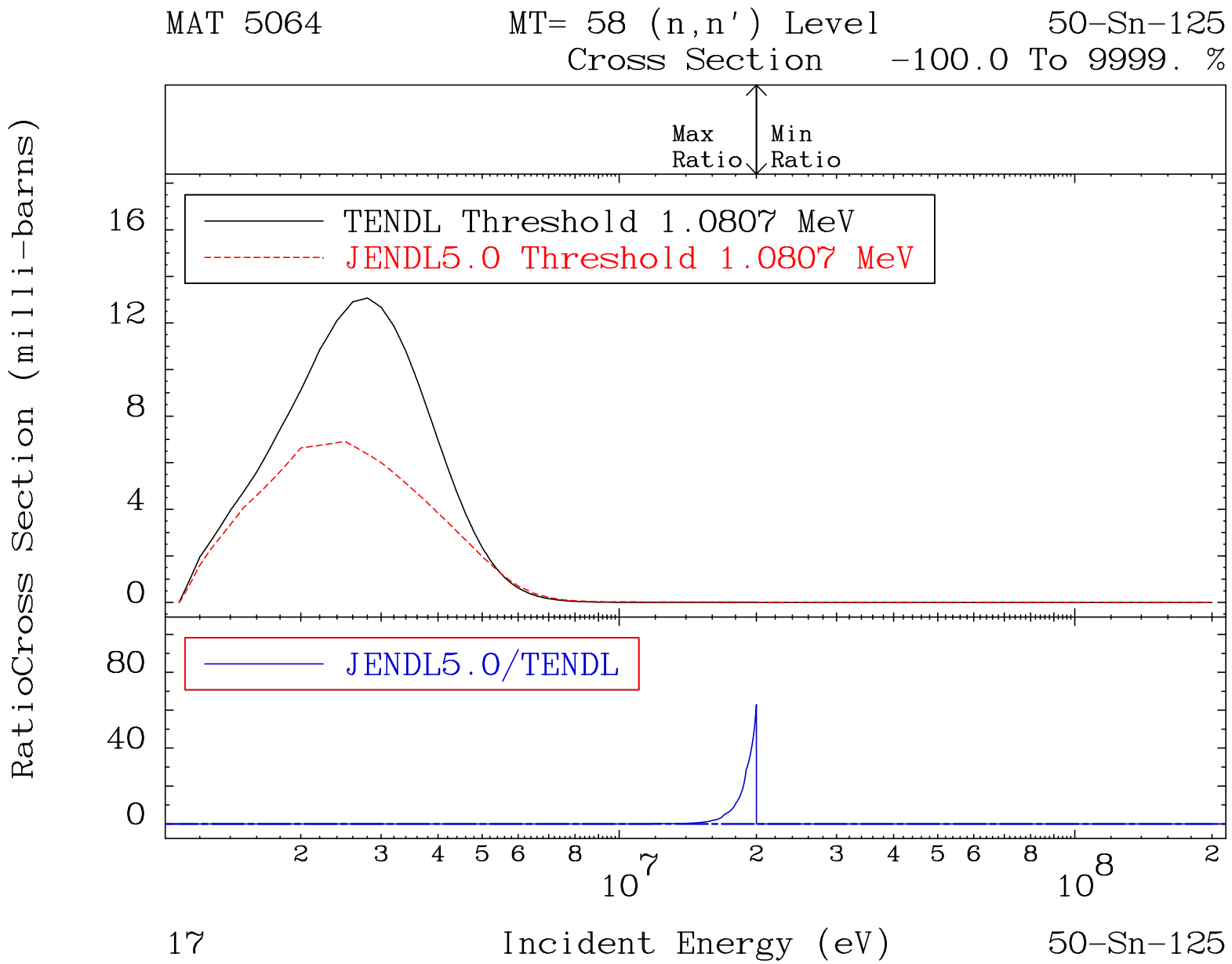

MAT 5064
MT= 53 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 622.88 keV
JENDL5.0 Threshold 622.88 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
50-Sn-125

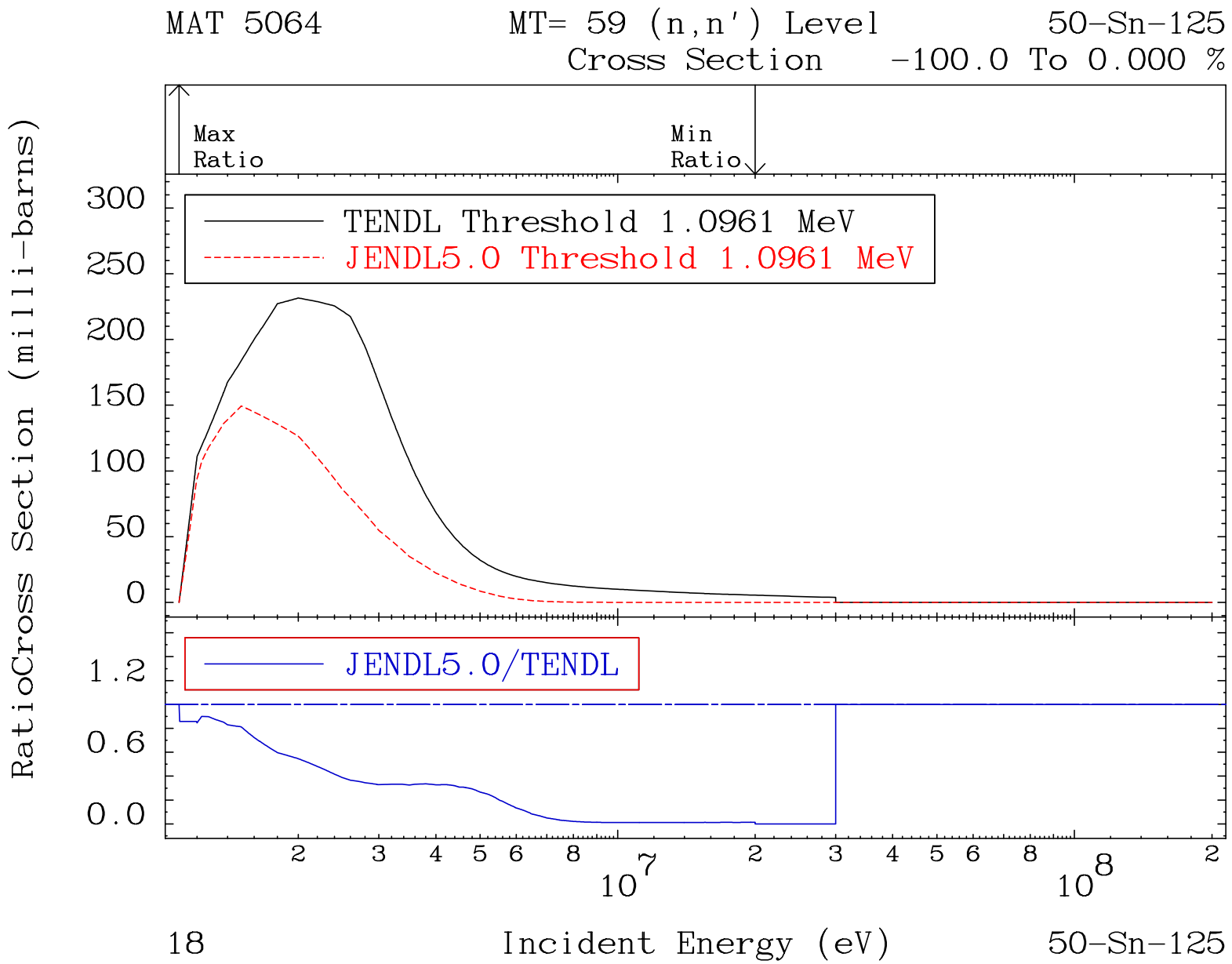

MAT 5064
MT= 54 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 861.59 keV
JENDL5.0 Threshold 861.59 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
13
Incident Energy (eV)
50-Sn-125

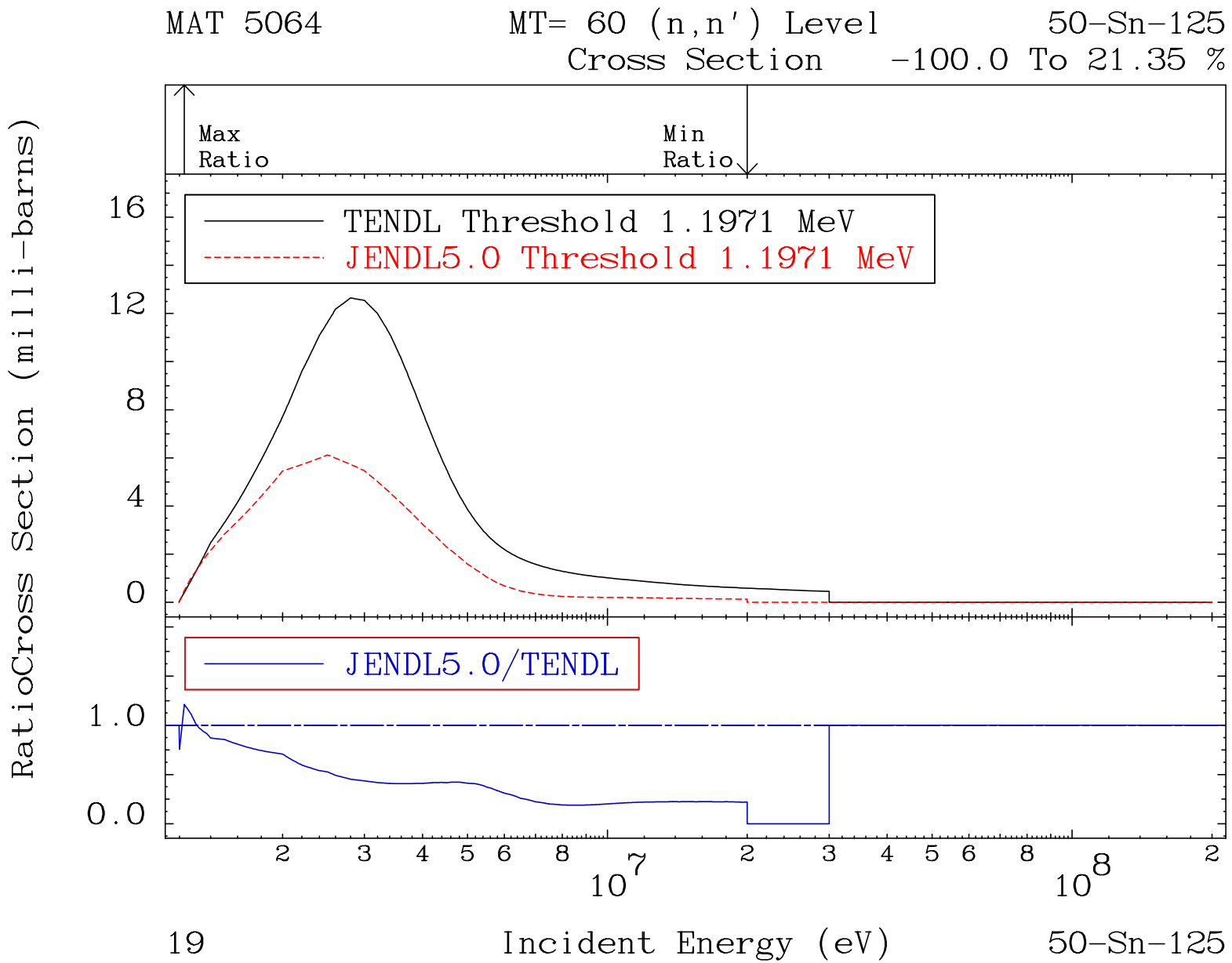

MAT 5064
MT= 55 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 937.89 keV
JENDL5.0 Threshold 937.89 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
200
100
0
$10^6$
$10^7$
$10^8$
2 3 4 5 6 8
14
Incident Energy (eV)
50-Sn-125

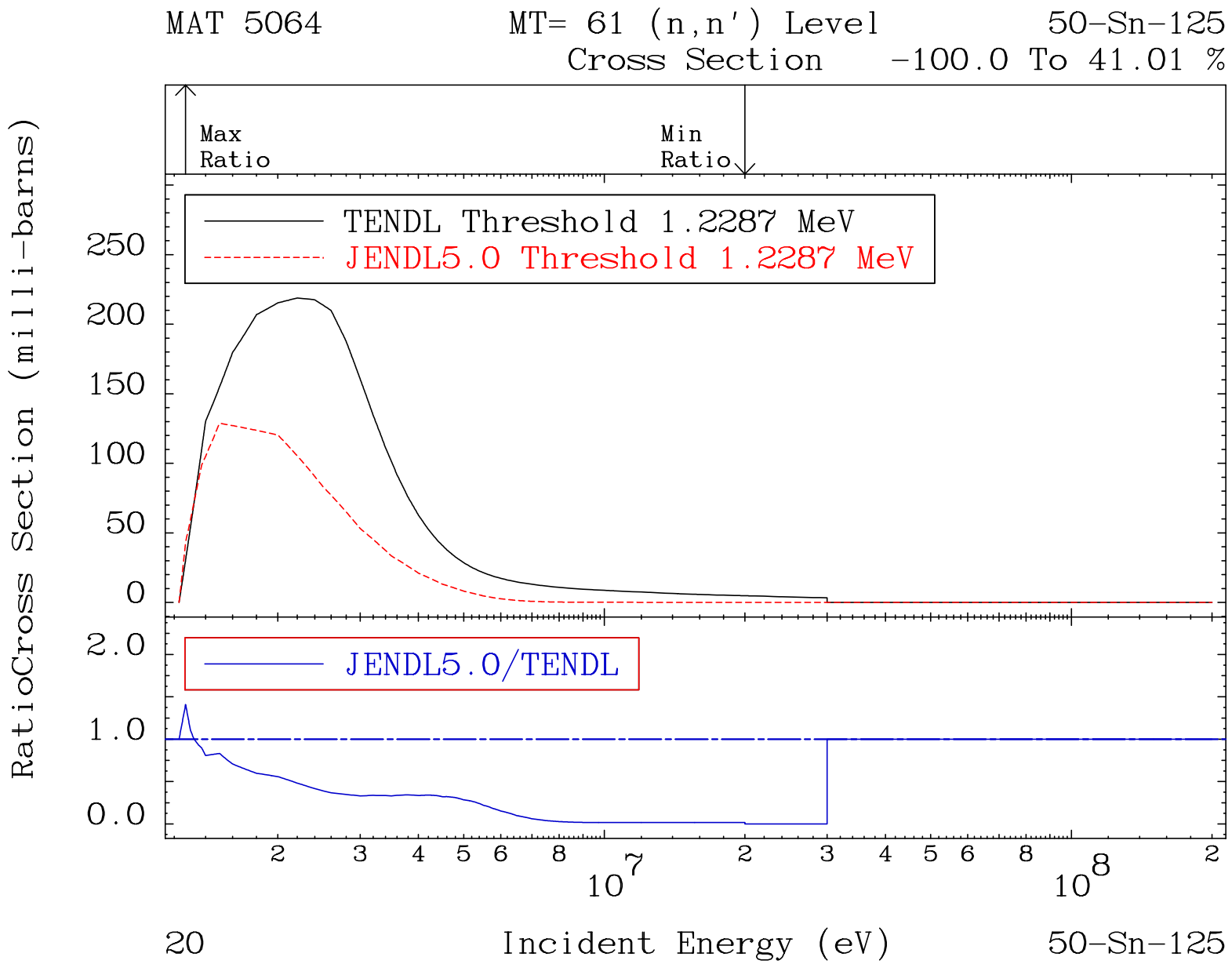

MAT 5064
MT= 56 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 362.3 %
Min Ratio
Max Ratio
TENDL Threshold 944.05 keV
JENDL5.0 Threshold 944.05 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
15
Incident Energy (eV)
50-Sn-125

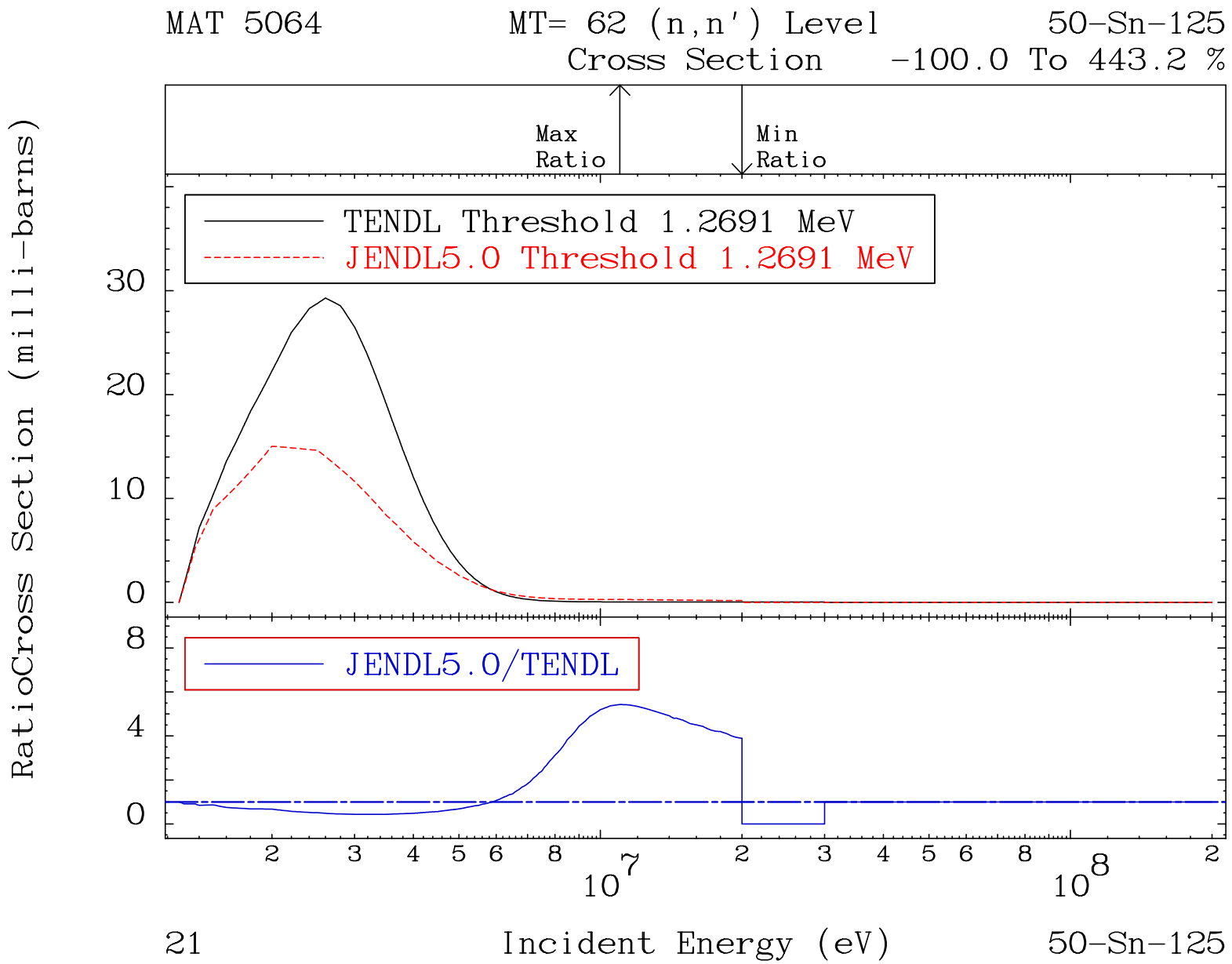

MAT 5064
MT= 57 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 46.46 %
Max Ratio
Min Ratio
TENDL Threshold 1.0678 MeV
JENDL5.0 Threshold 1.0678 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
16
50-Sn-125

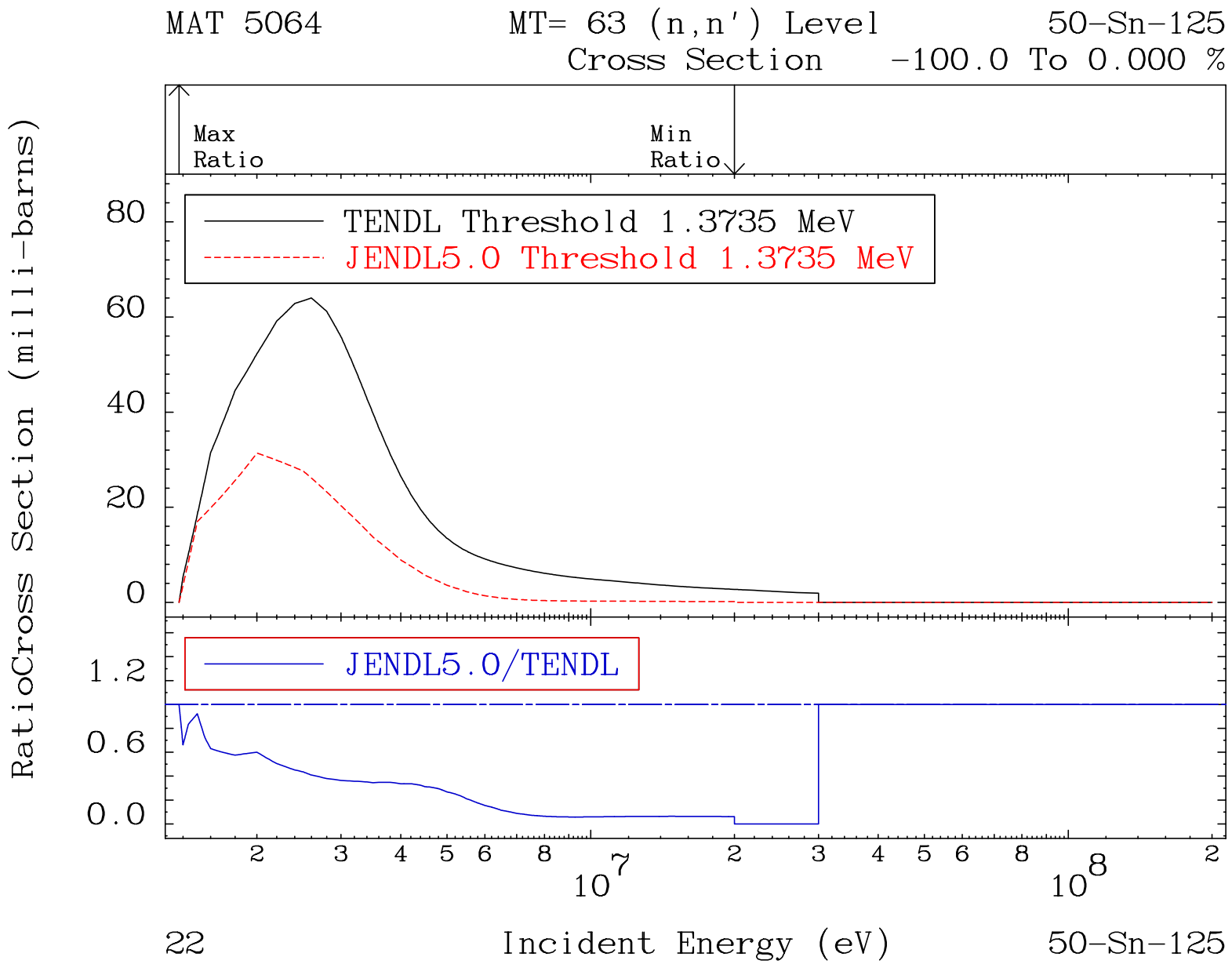

MAT 5064
MT= 58 (n,n') Level
50-Sn-125
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0807 MeV
JENDL5.0 Threshold 1.0807 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
80
40
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
50-Sn-125

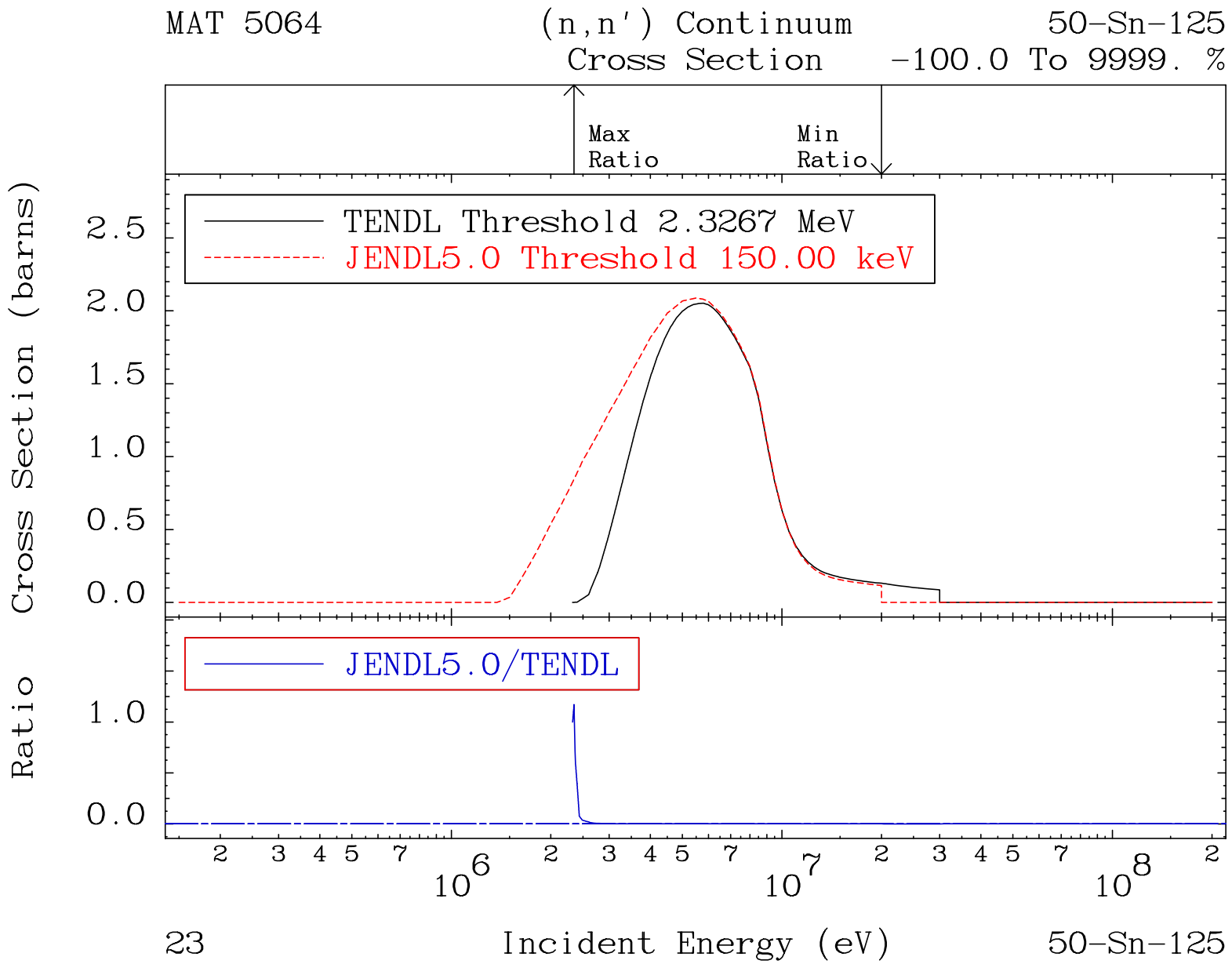

MAT 5064
MT= 59 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.0961 MeV
JENDL5.0 Threshold 1.0961 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
18
Incident Energy (eV)
50-Sn-125

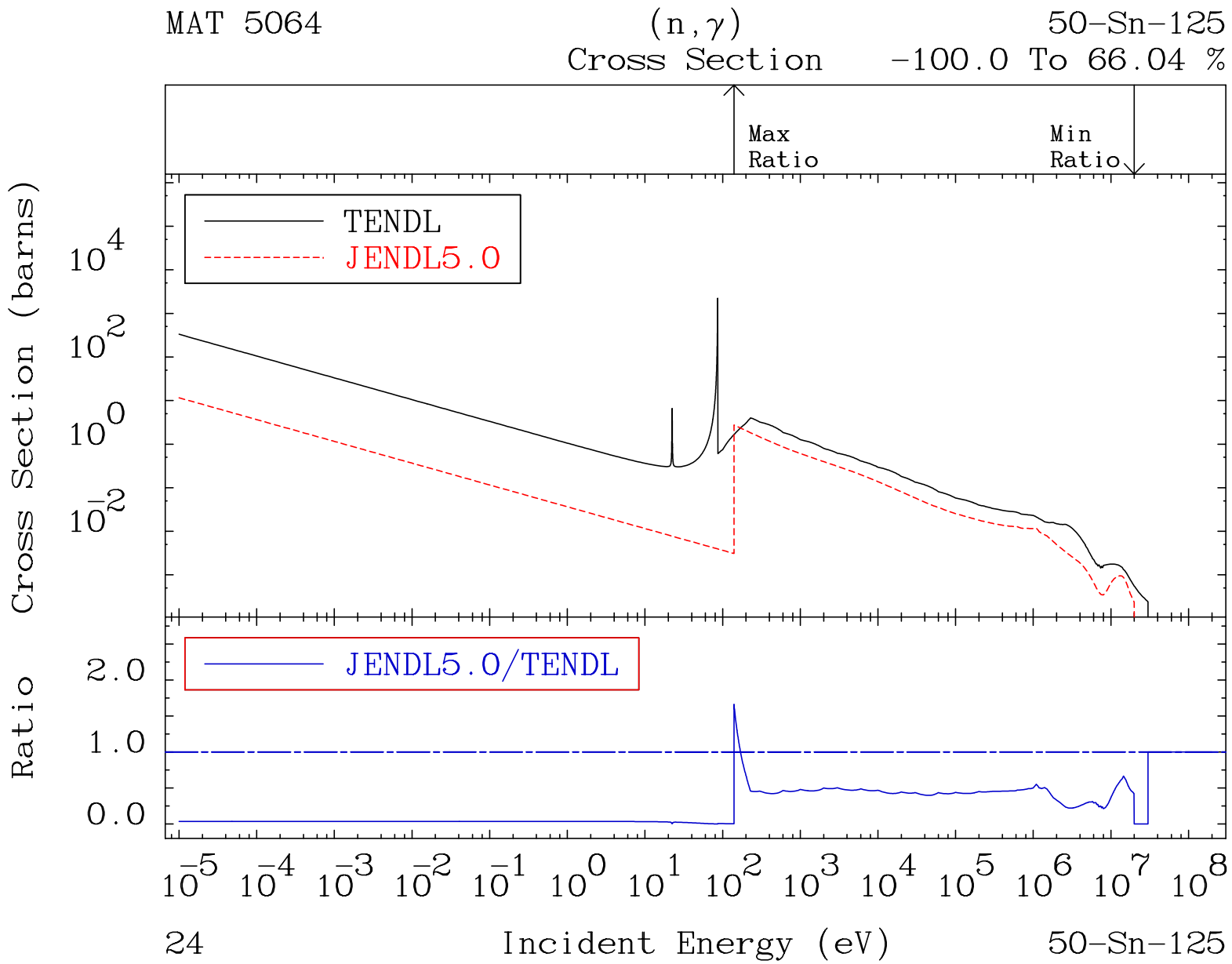

MAT 5064
MT= 60 (n,n') Level
50-Sn-125
Cross Section
-100.0 To 21.35 %
Max Ratio
Min Ratio
TENDL Threshold 1.1971 MeV
JENDL5.0 Threshold 1.1971 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
50-Sn-125

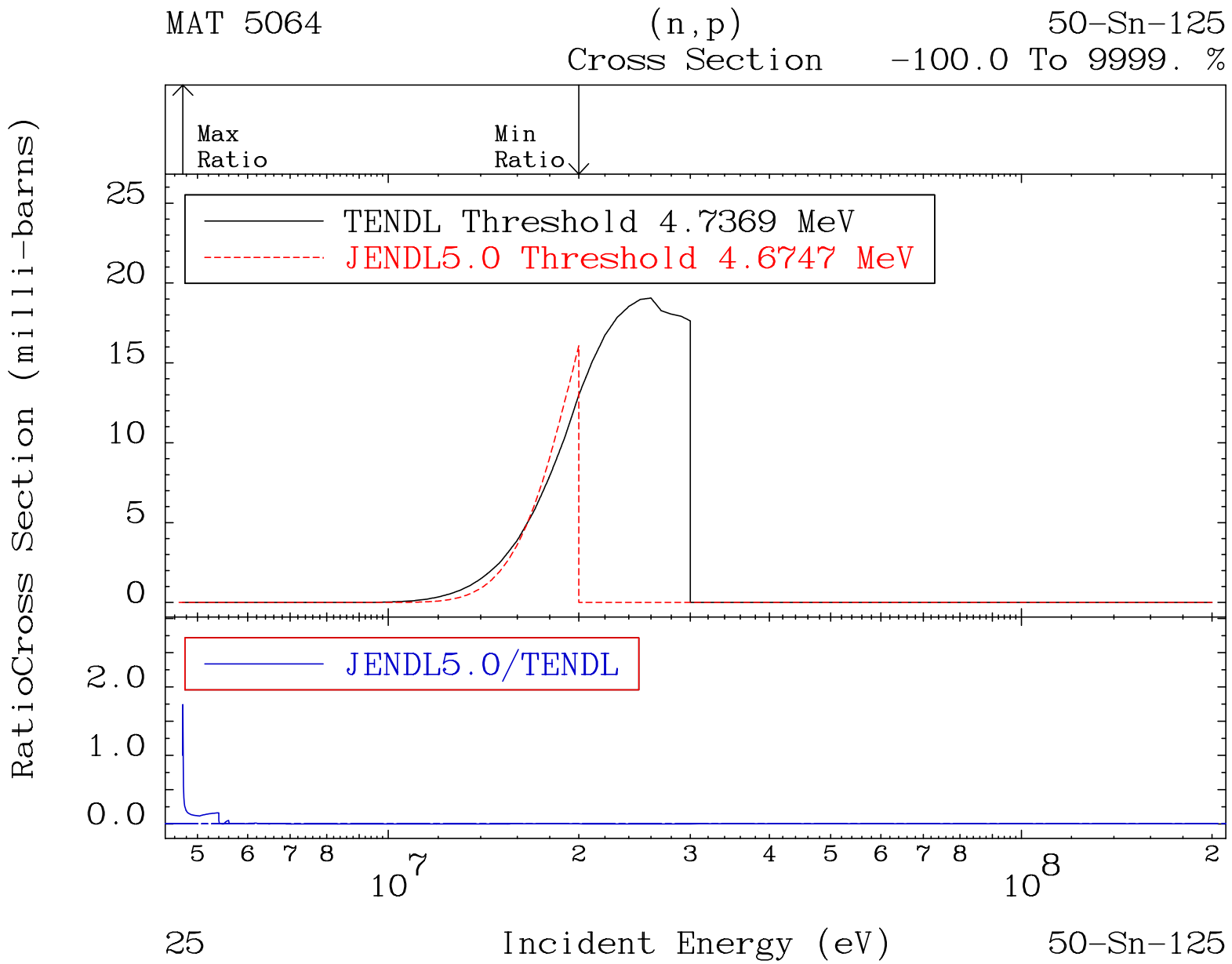

MAT 5064
MT= 61 (n,n') Level
50-Sn-125
Cross Section -100.0 To 41.01 %
Max Ratio
Min Ratio
TENDL Threshold 1.2287 MeV
JENDL5.0 Threshold 1.2287 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
50-Sn-125

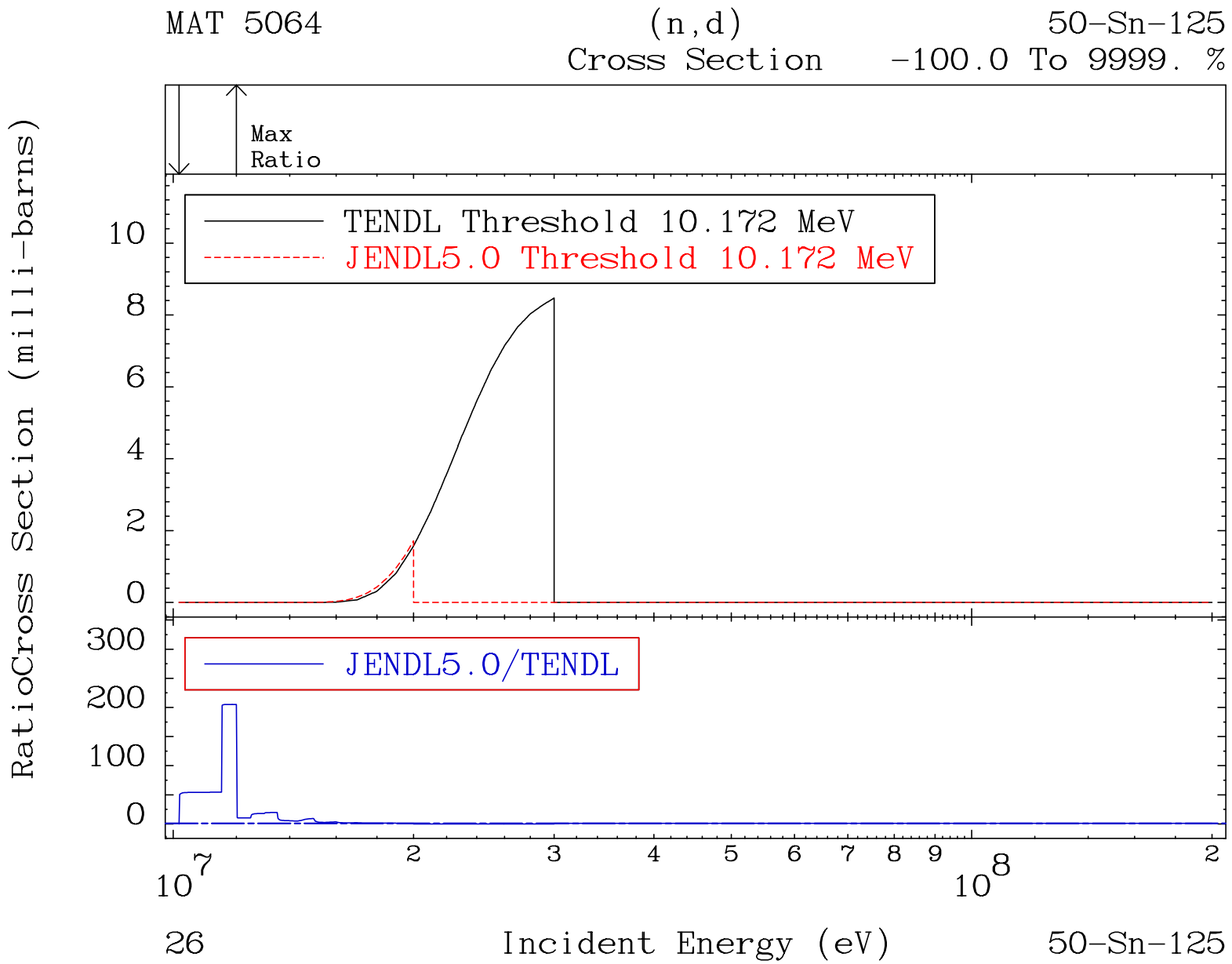

MAT 5064
MT= 62 (n,n') Level
50-Sn-125
Cross Section -100.0 To 443.2 %
Max Ratio
Min Ratio
TENDL Threshold 1.2691 MeV
JENDL5.0 Threshold 1.2691 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
50-Sn-125

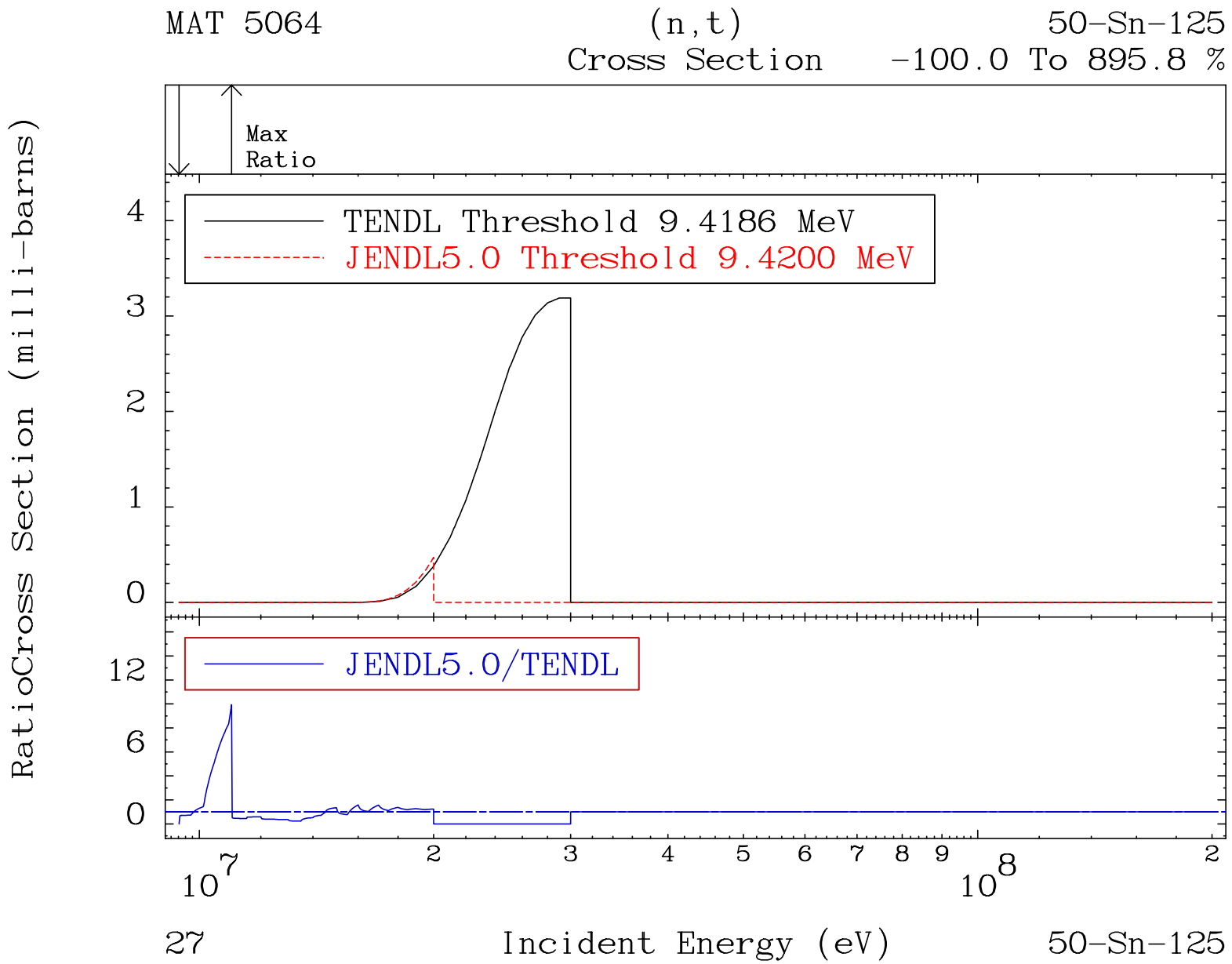

MAT 5064
MT= 63 (n,n') Level
50-Sn-125
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.3735 MeV
JENDL5.0 Threshold 1.3735 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
50-Sn-125

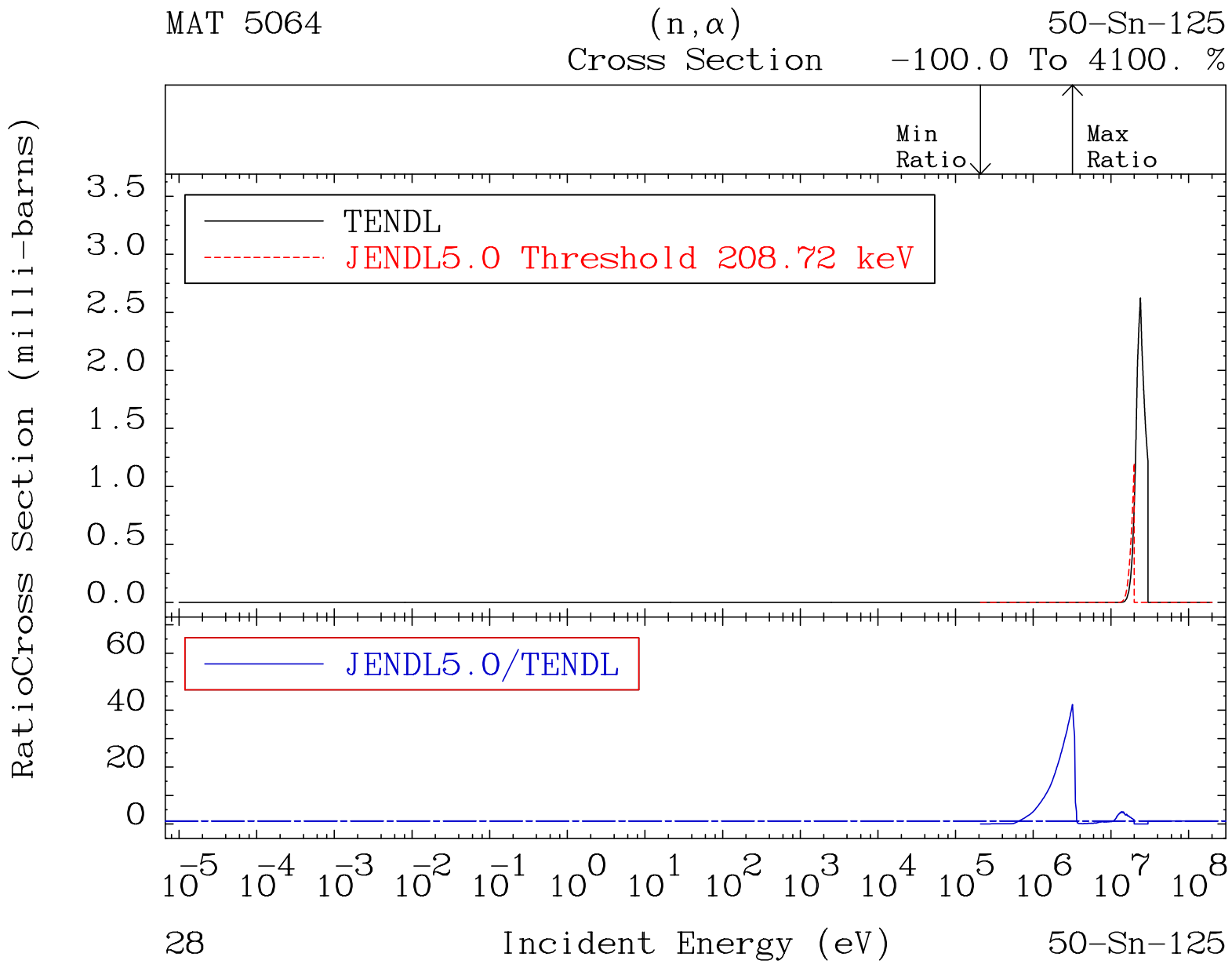

MAT 5064
(n,n') Continuum
Cross Section
50-Sn-125
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3267 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
23
50-Sn-125

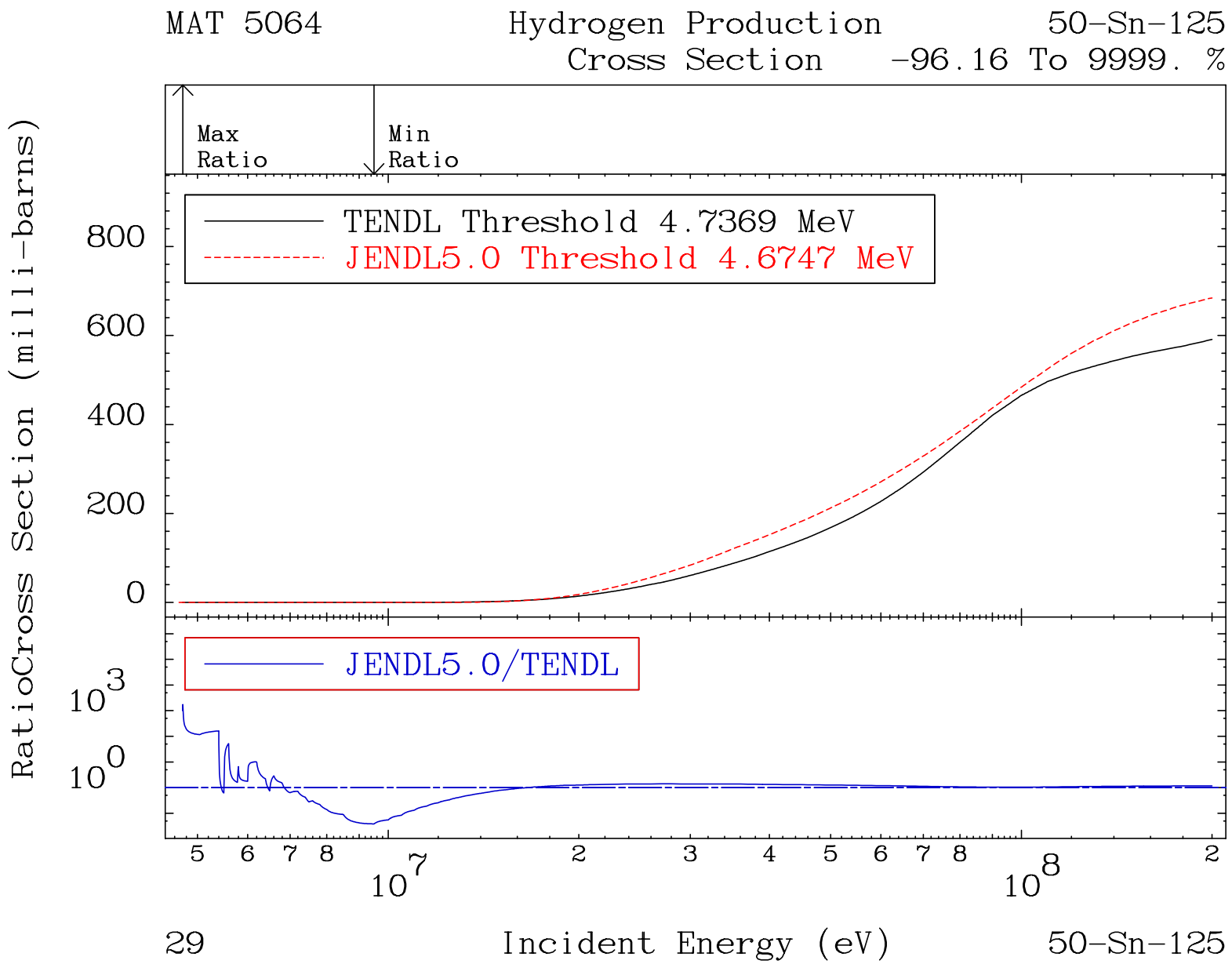

MAT 5064
(n,γ)
Cross Section
50-Sn-125
-100.0 To 66.04 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
24
Incident Energy (eV)
50-Sn-125

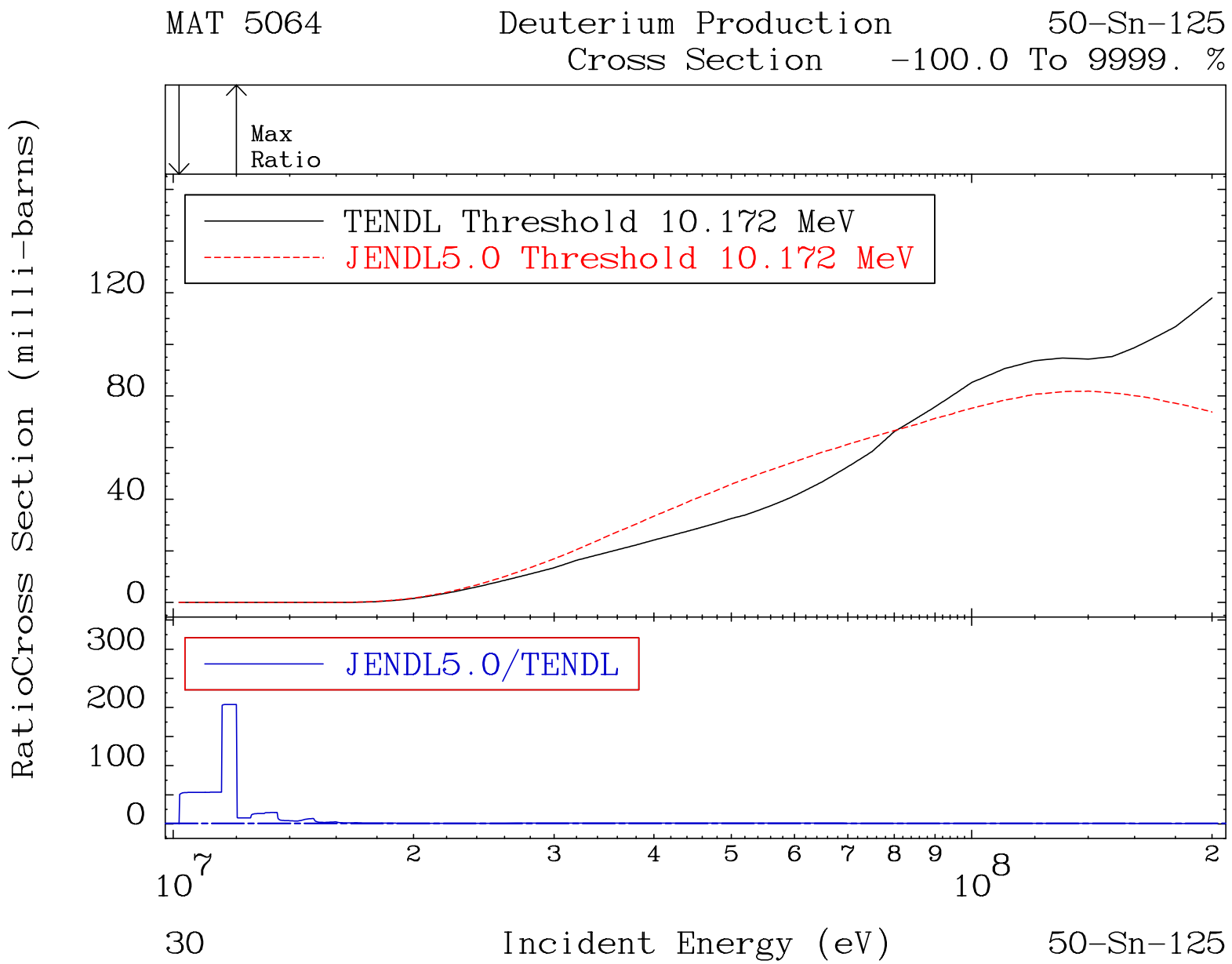

MAT 5064
(n,p)
Cross Section
50-Sn-125
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7369 MeV
JENDL5.0 Threshold 4.6747 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
50-Sn-125

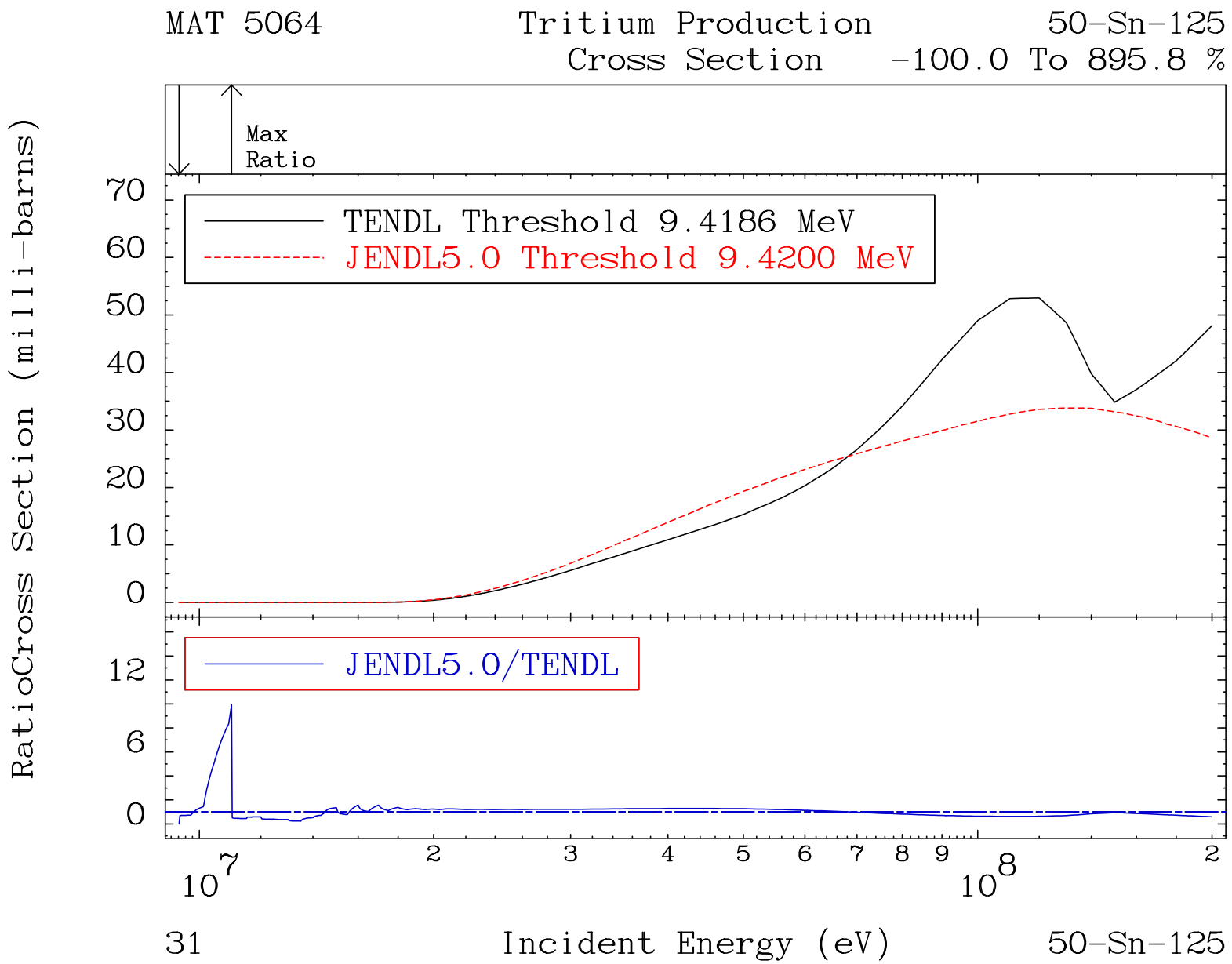

MAT 5064
(n,d)
50-Sn-125
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.172 MeV
JENDL5.0 Threshold 10.172 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
300
200
100
0
10^7
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
50-Sn-125

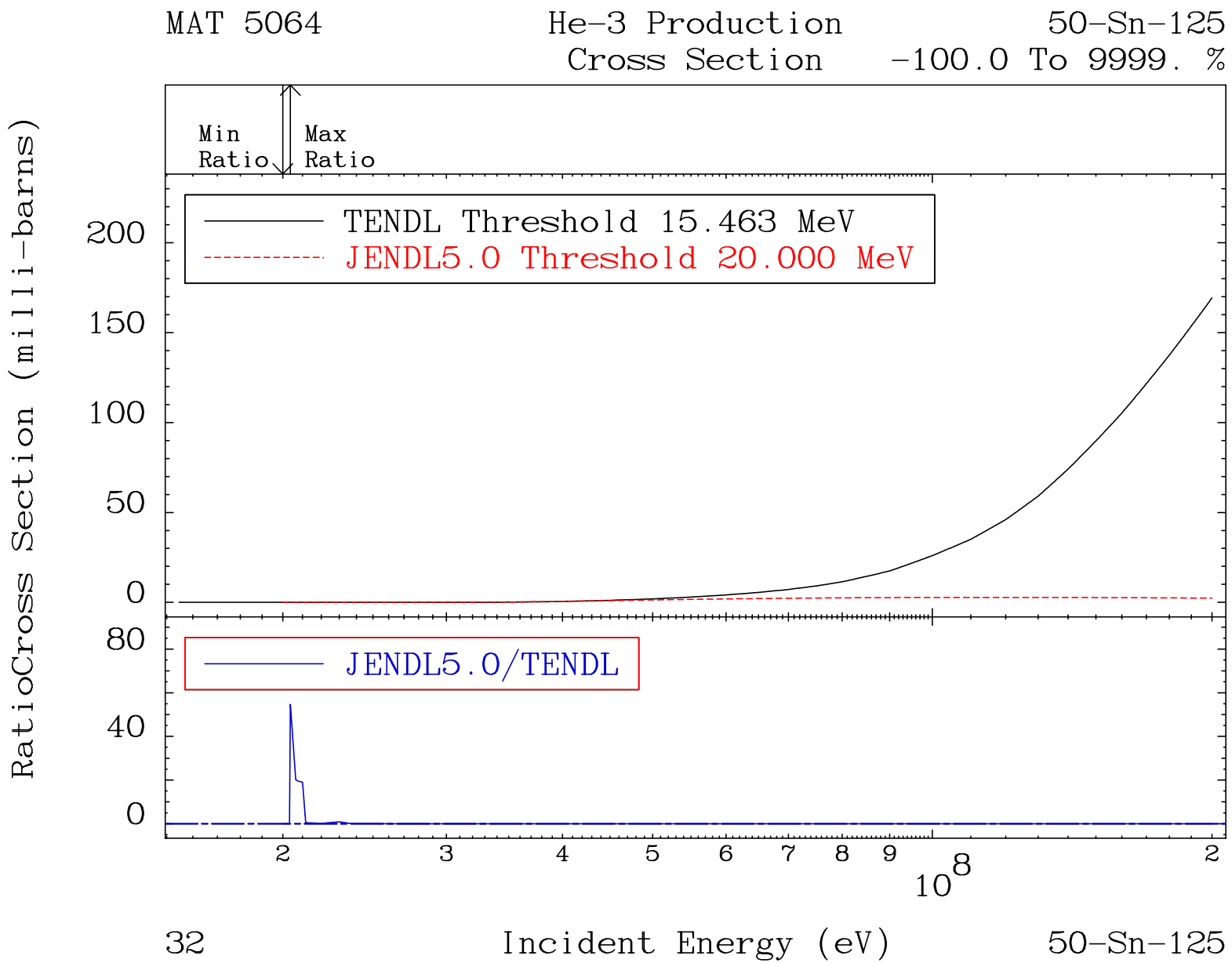

MAT 5064
(n,t)
Cross Section
50-Sn-125
-100.0 To 895.8 %
Max
Ratio
TENDL Threshold 9.4186 MeV
JENDL5.0 Threshold 9.4200 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
27
50-Sn-125

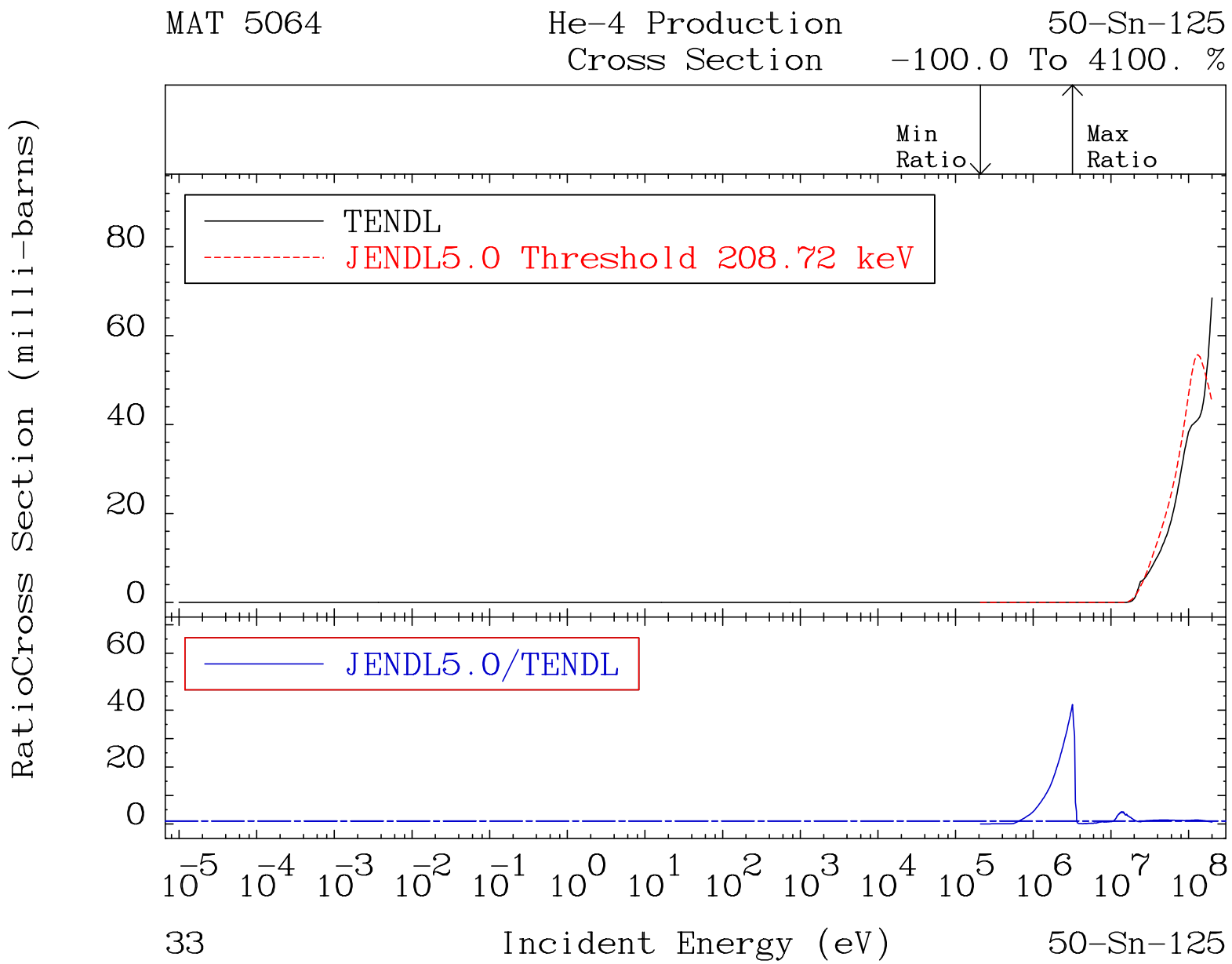

MAT 5064
(n,α)
Cross Section
50-Sn-125
-100.0 To 4100. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 208.72 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
60
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
28
50-Sn-125

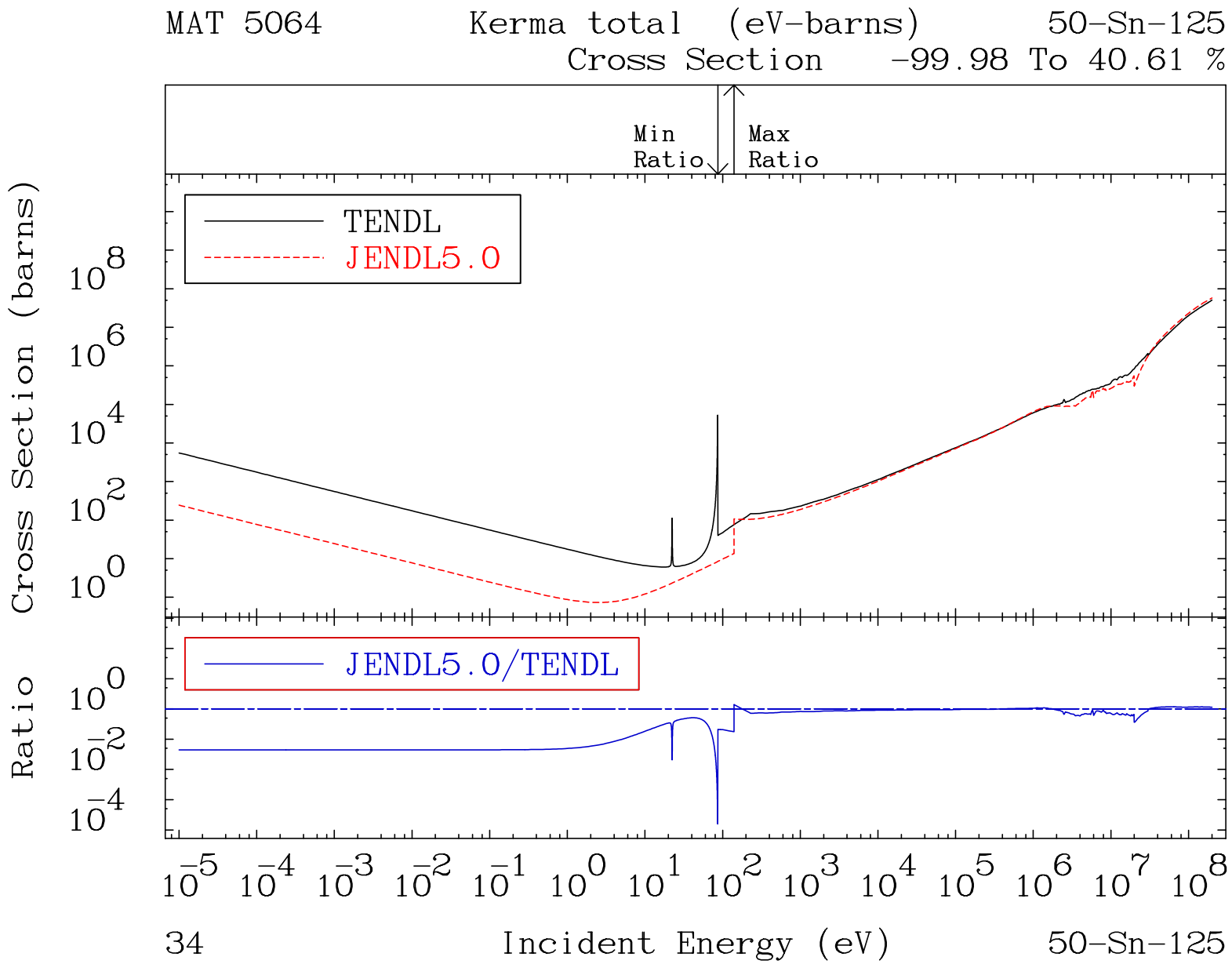

MAT 5064
Hydrogen Production
50-Sn-125
Cross Section
-96.16 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7369 MeV
JENDL5.0 Threshold 4.6747 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
10^3
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
50-Sn-125

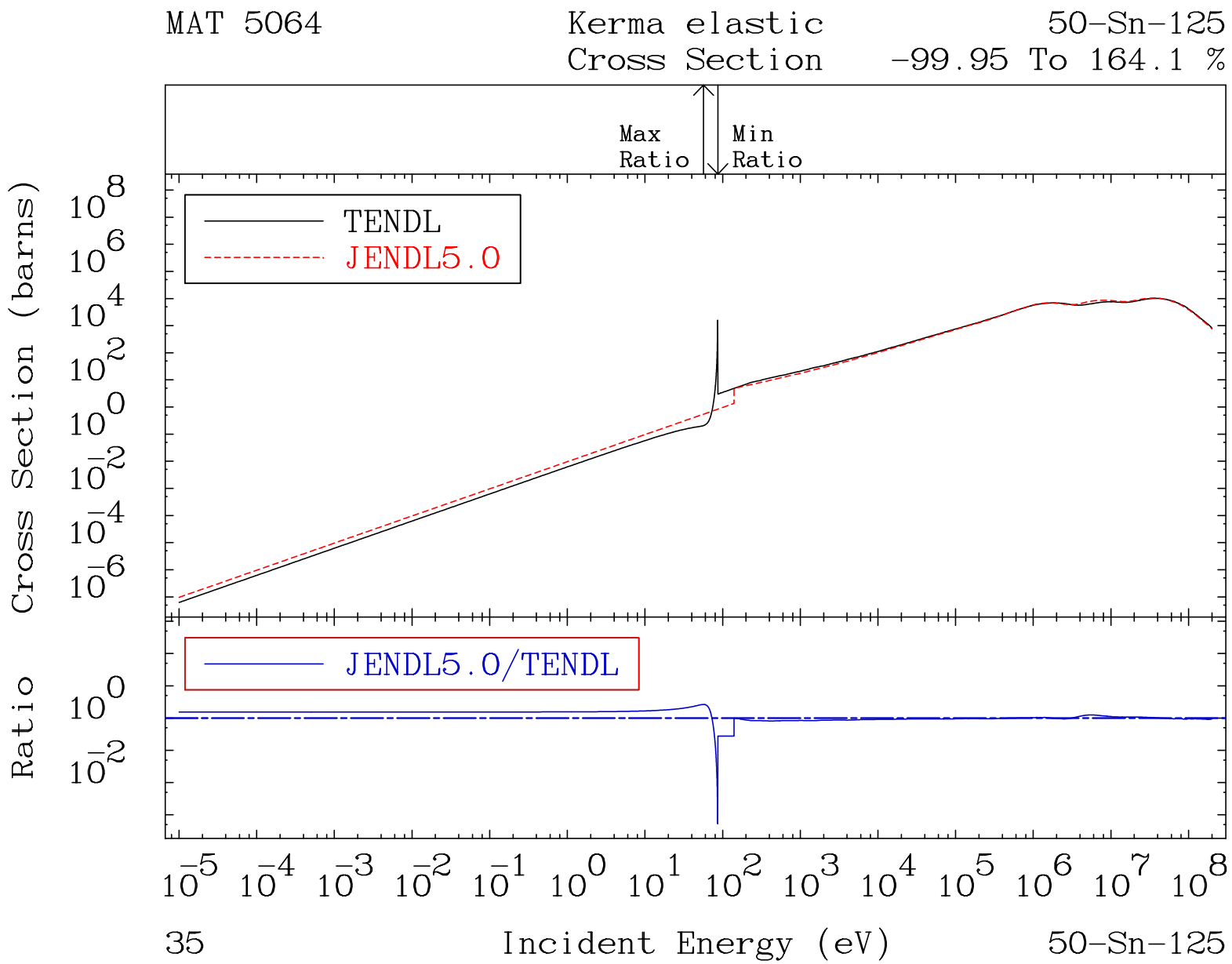

MAT 5064
Deuterium Production
50-Sn-125
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.172 MeV
JENDL5.0 Threshold 10.172 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
80
40
0
300
200
100
0
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
50-Sn-125

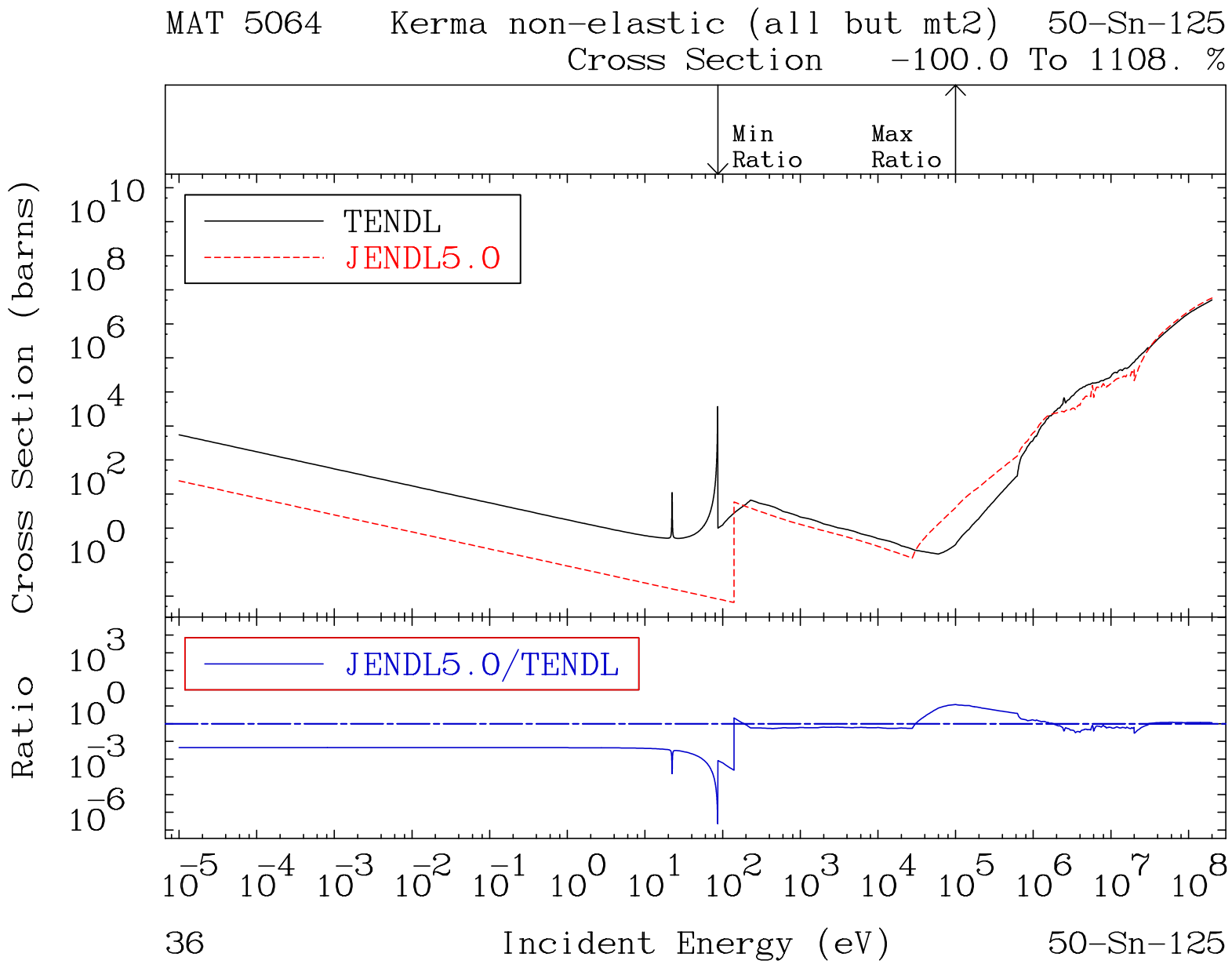

MAT 5064
Tritium Production
50-Sn-125
Cross Section
-100.0 To 895.8 %
Max
Ratio
TENDL Threshold 9.4186 MeV
JENDL5.0 Threshold 9.4200 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
12
6
0
$10^7$
2
3
4
5
6
7
8
9
$10^8$
2
31
Incident Energy (eV)
50-Sn-125

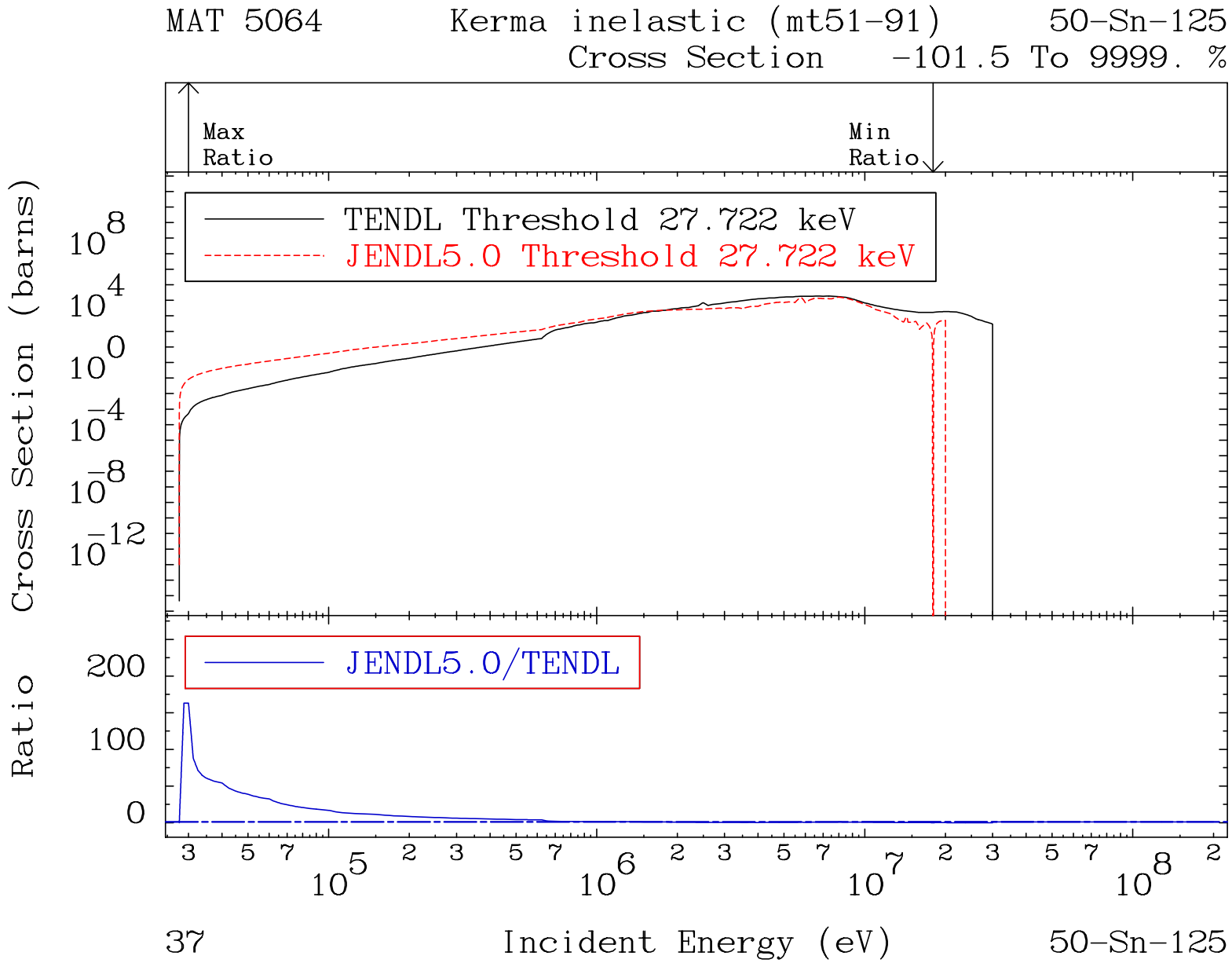

MAT 5064
He-3 Production
Cross Section
50-Sn-125
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 15.463 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
32
Incident Energy (eV)
50-Sn-125

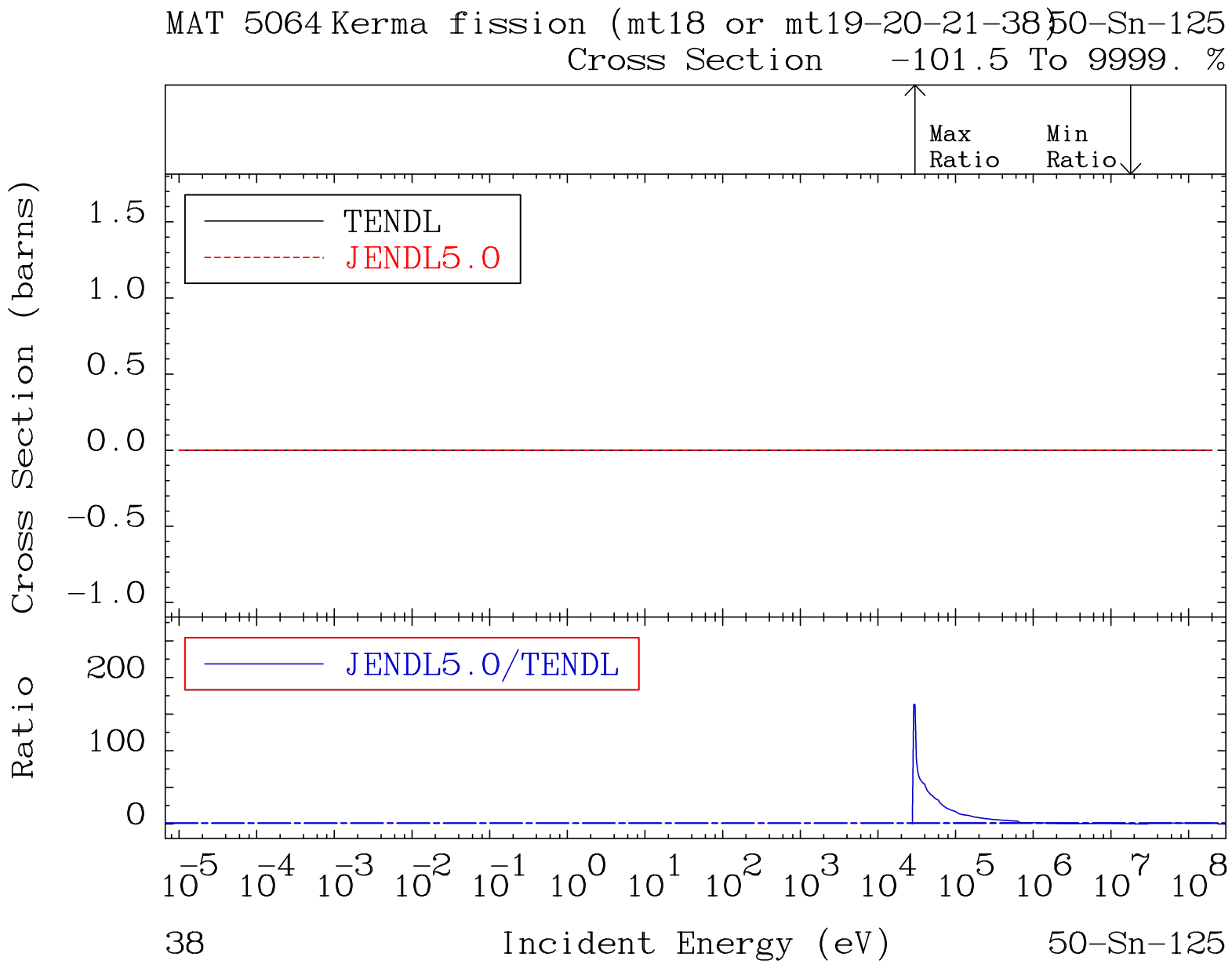

MAT 5064
He-4 Production
Cross Section
50-Sn-125
-100.0 To 4100. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 208.72 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
60
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
50-Sn-125

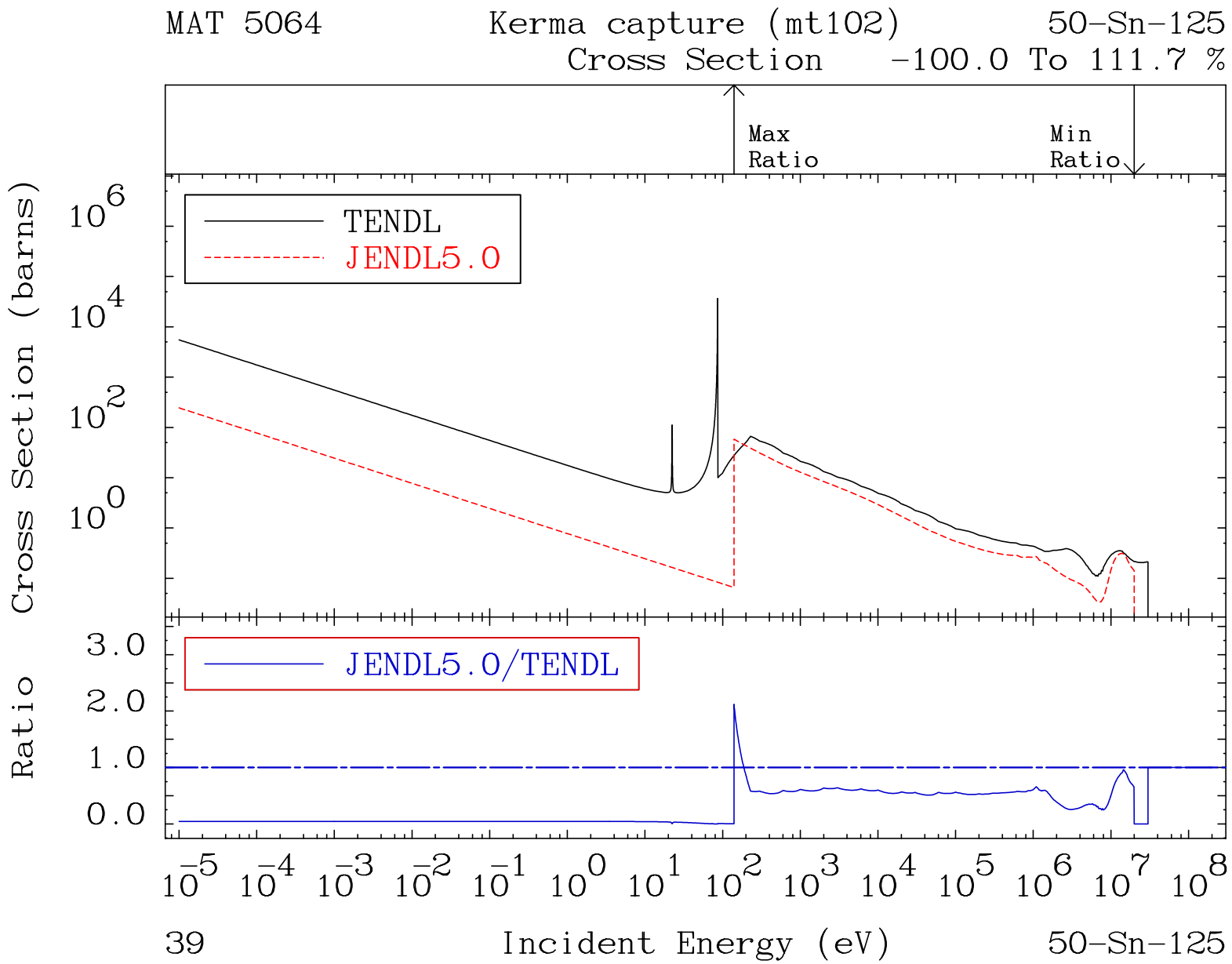

MAT 5064
Kerma total (eV-barns)
50-Sn-125
Cross Section -99.98 To 40.61 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
34
50-Sn-125

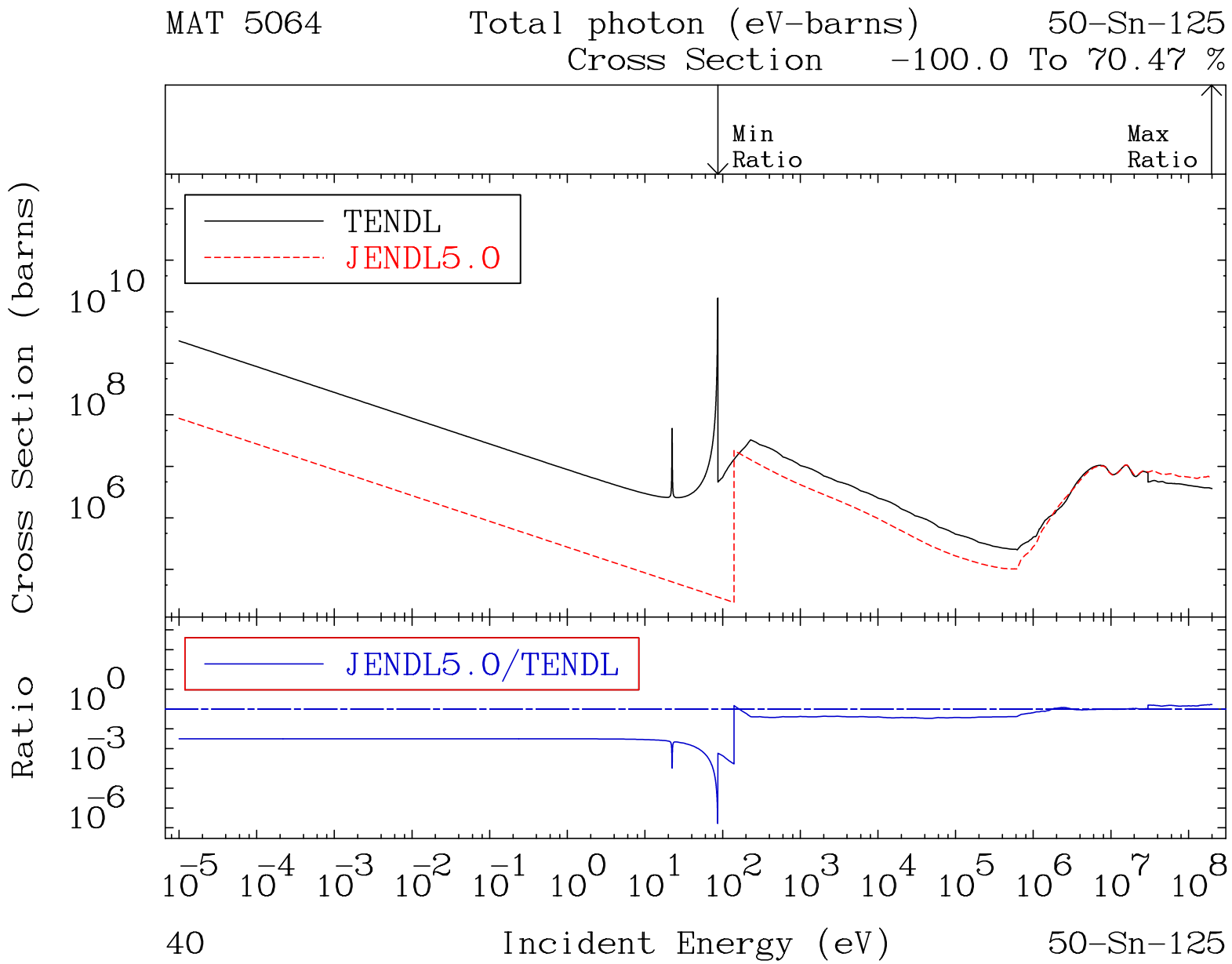

MAT 5064
Kerma elastic
Cross Section
50-Sn-125
-99.95 To 164.1 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
50-Sn-125

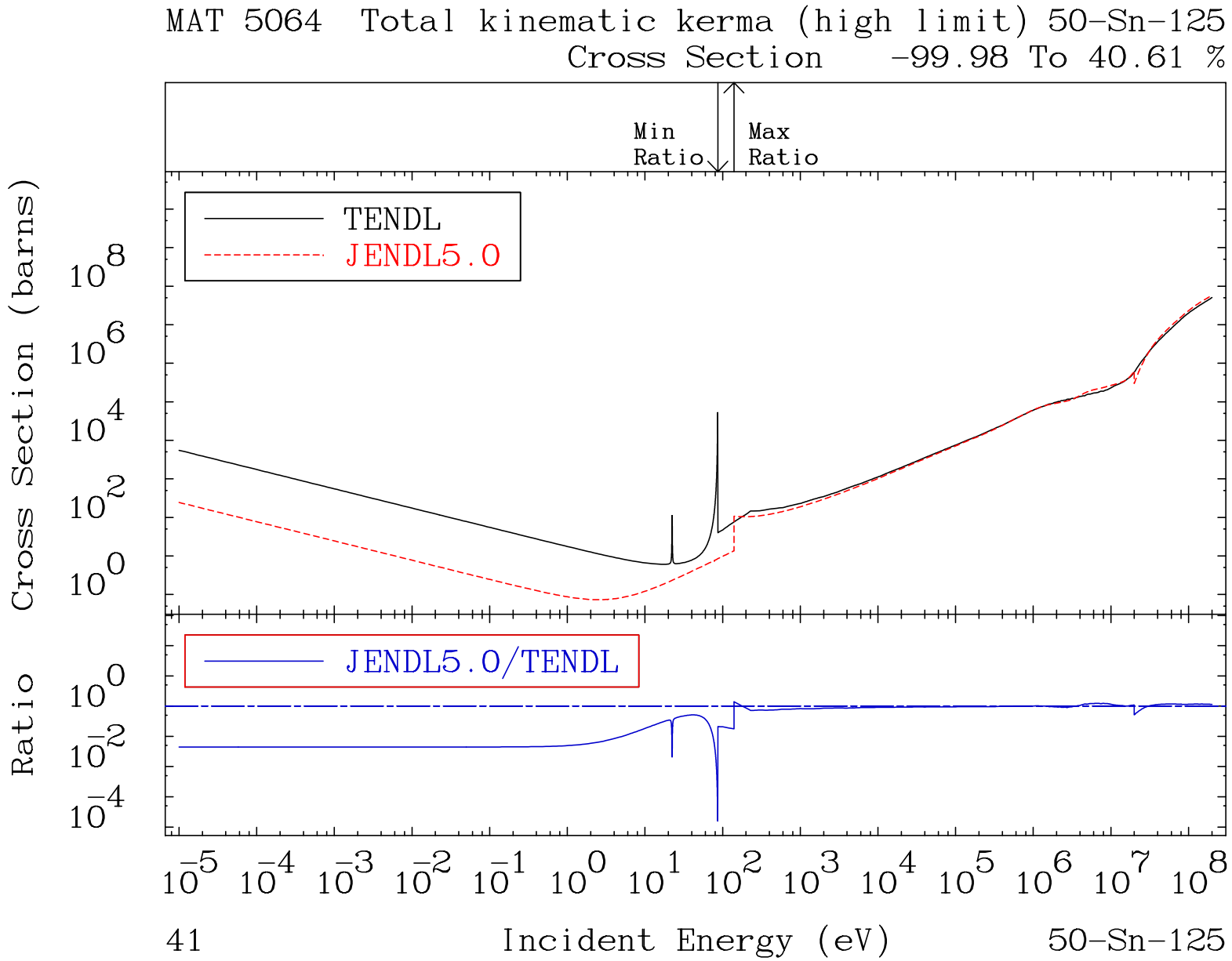

MAT 5064 Kerma non-elastic (all but mt2) 50-Sn-125
Cross Section -100.0 To 1108. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
50-Sn-125

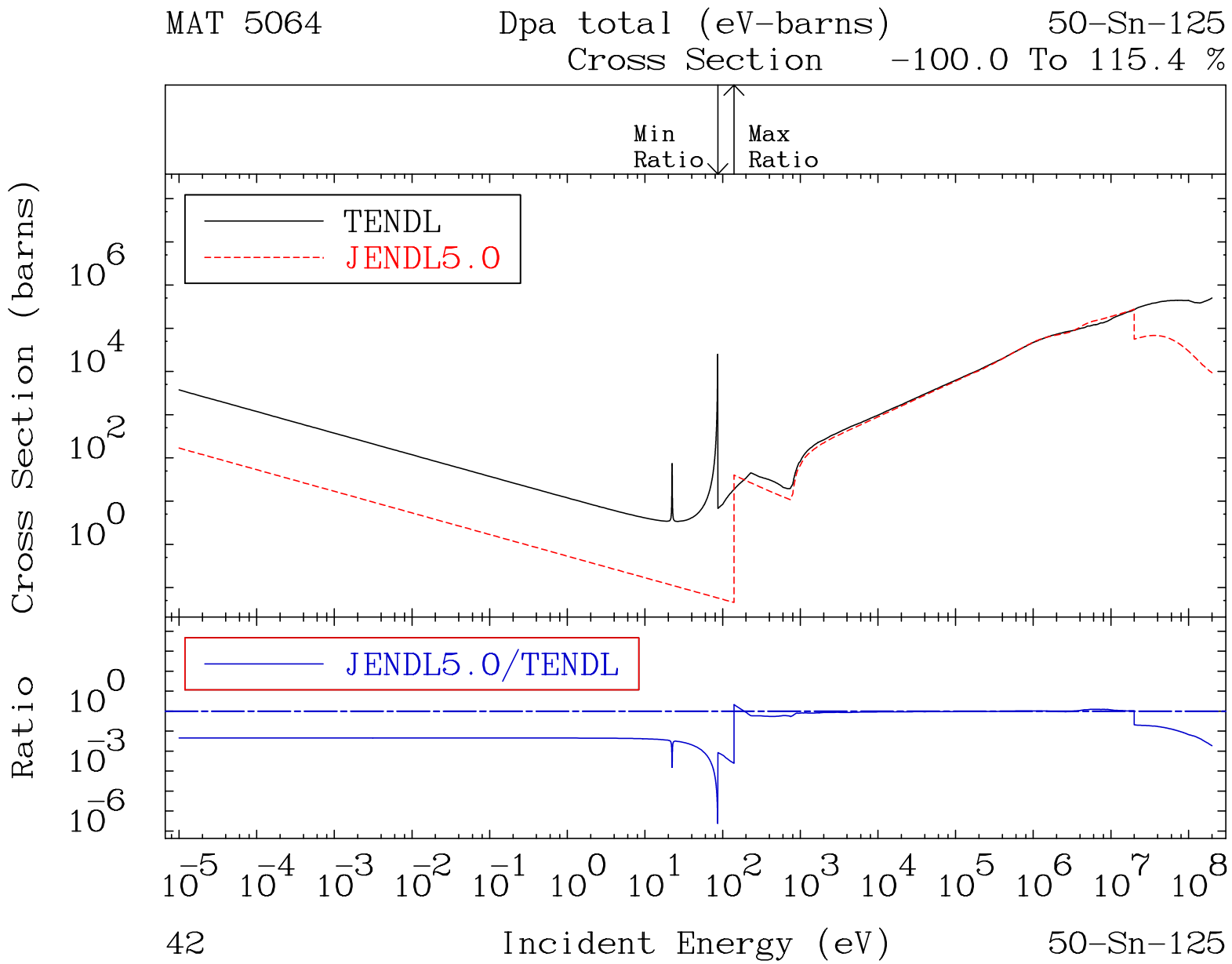

MAT 5064
Kerma inelastic (mt51-91)
50-Sn-125
Cross Section -101.5 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 27.722 keV
JENDL5.0 Threshold 27.722 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
37
50-Sn-125

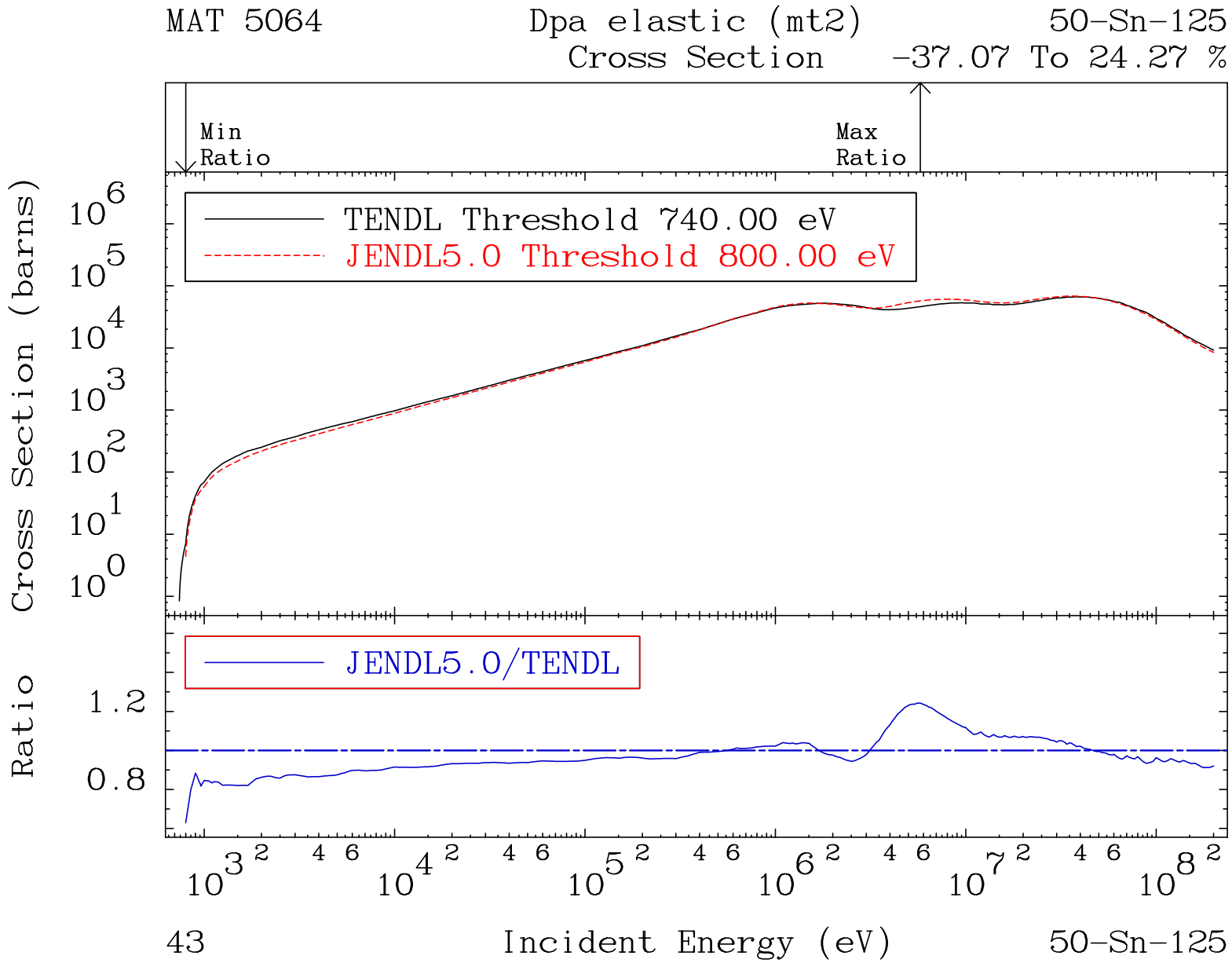

MAT 5064 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-125
Cross Section -101.5 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
100
0
$10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$ $10^{6}$ $10^{7}$ $10^{8}$
38
Incident Energy (eV)
50-Sn-125

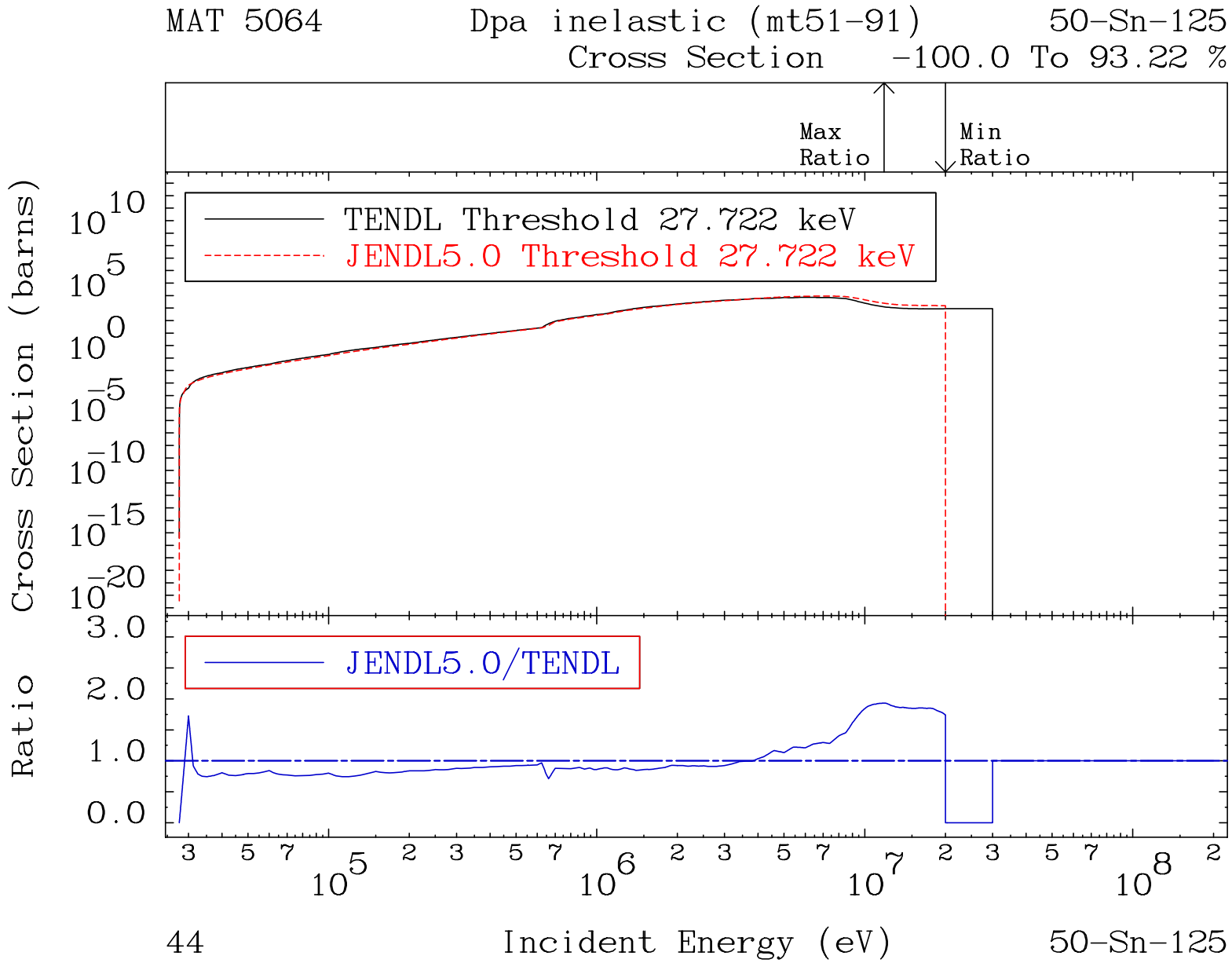

MAT 5064
Kerma capture (mt102)
50-Sn-125
Cross Section -100.0 To 111.7 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
39
50-Sn-125

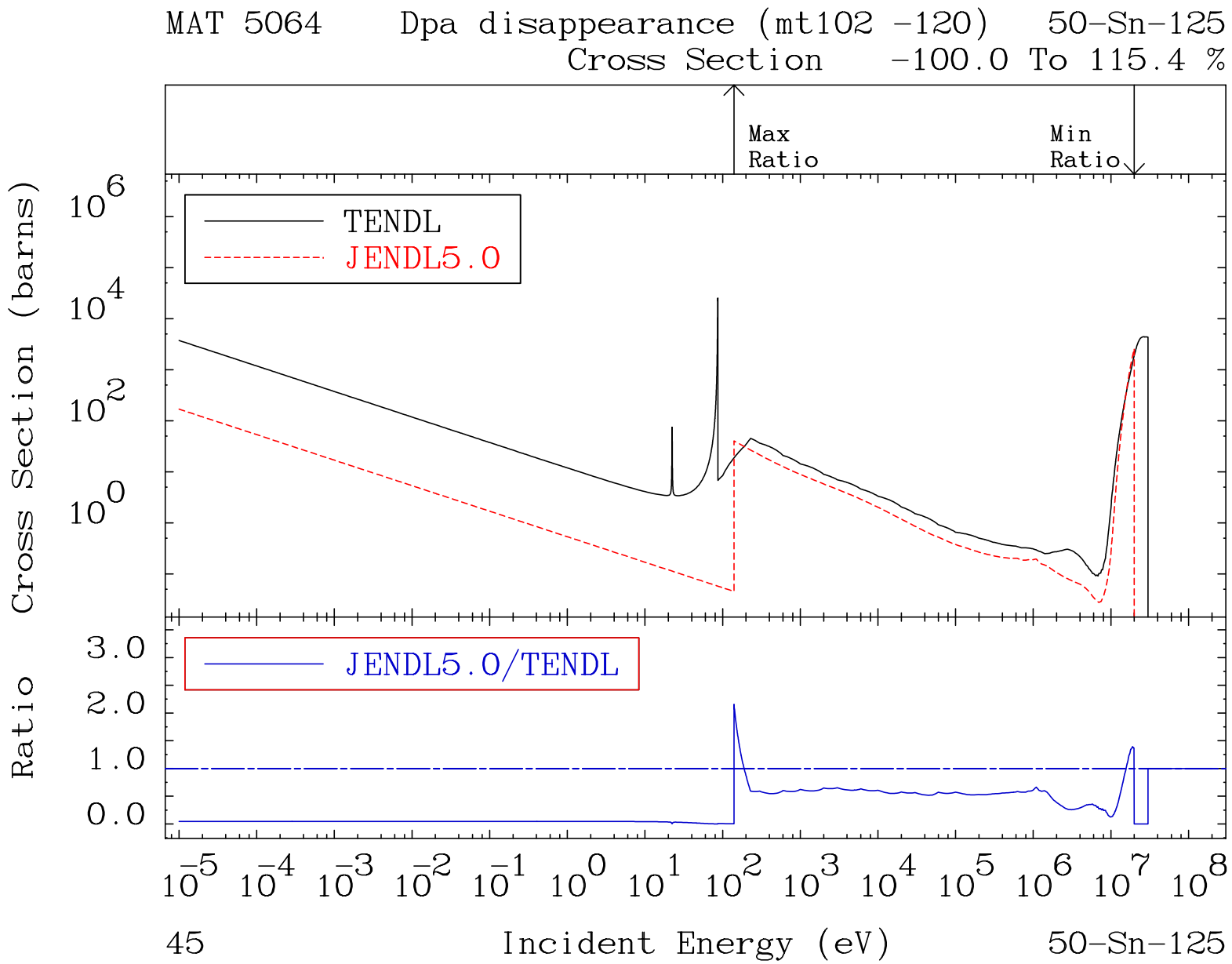

MAT 5064
Total photon (eV-barns)
50-Sn-125
Cross Section -100.0 To 70.47 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
50-Sn-125

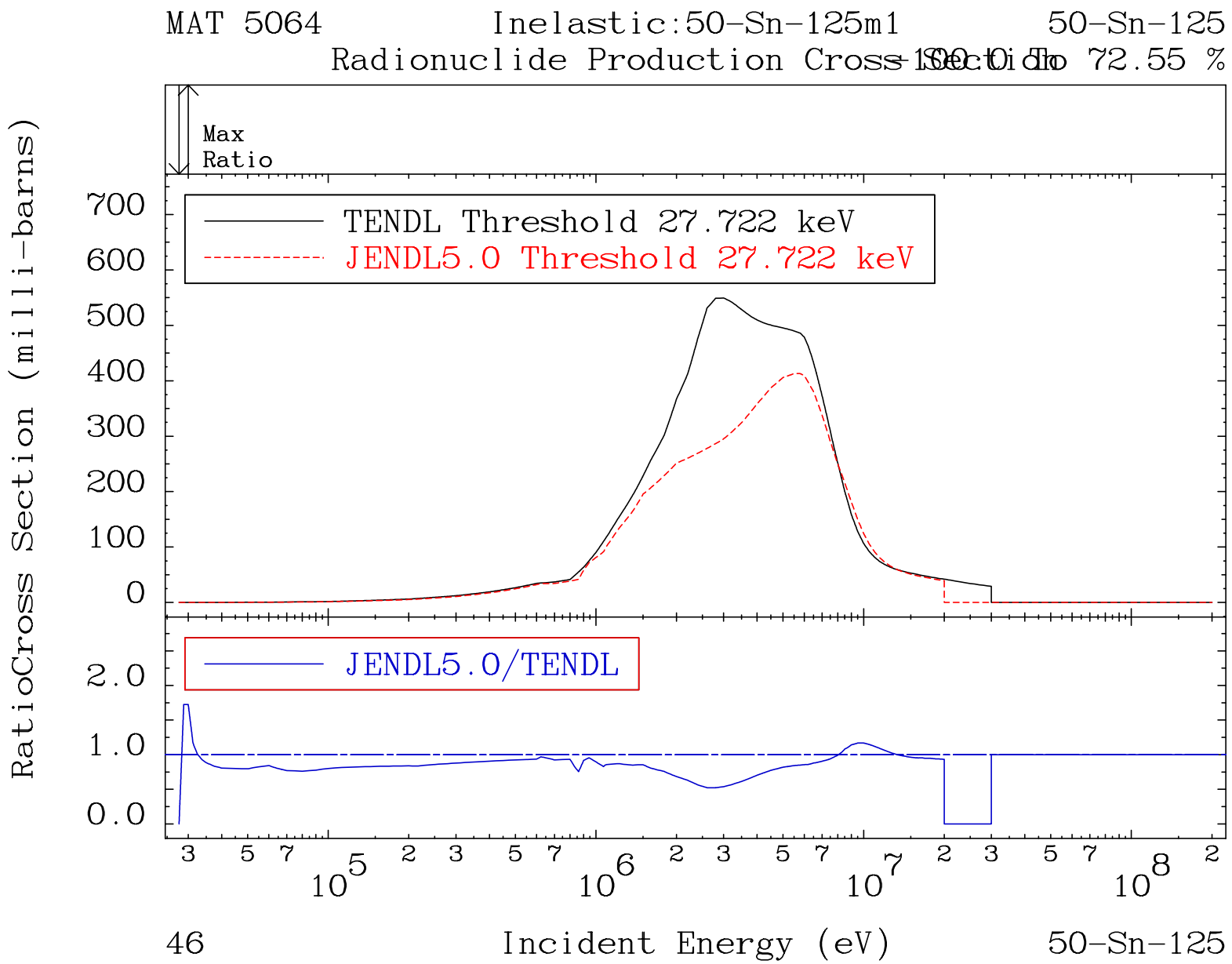

MAT 5064 Total kinematic kerma (high limit) 50-Sn-125
Cross Section -99.98 To 40.61 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
50-Sn-125

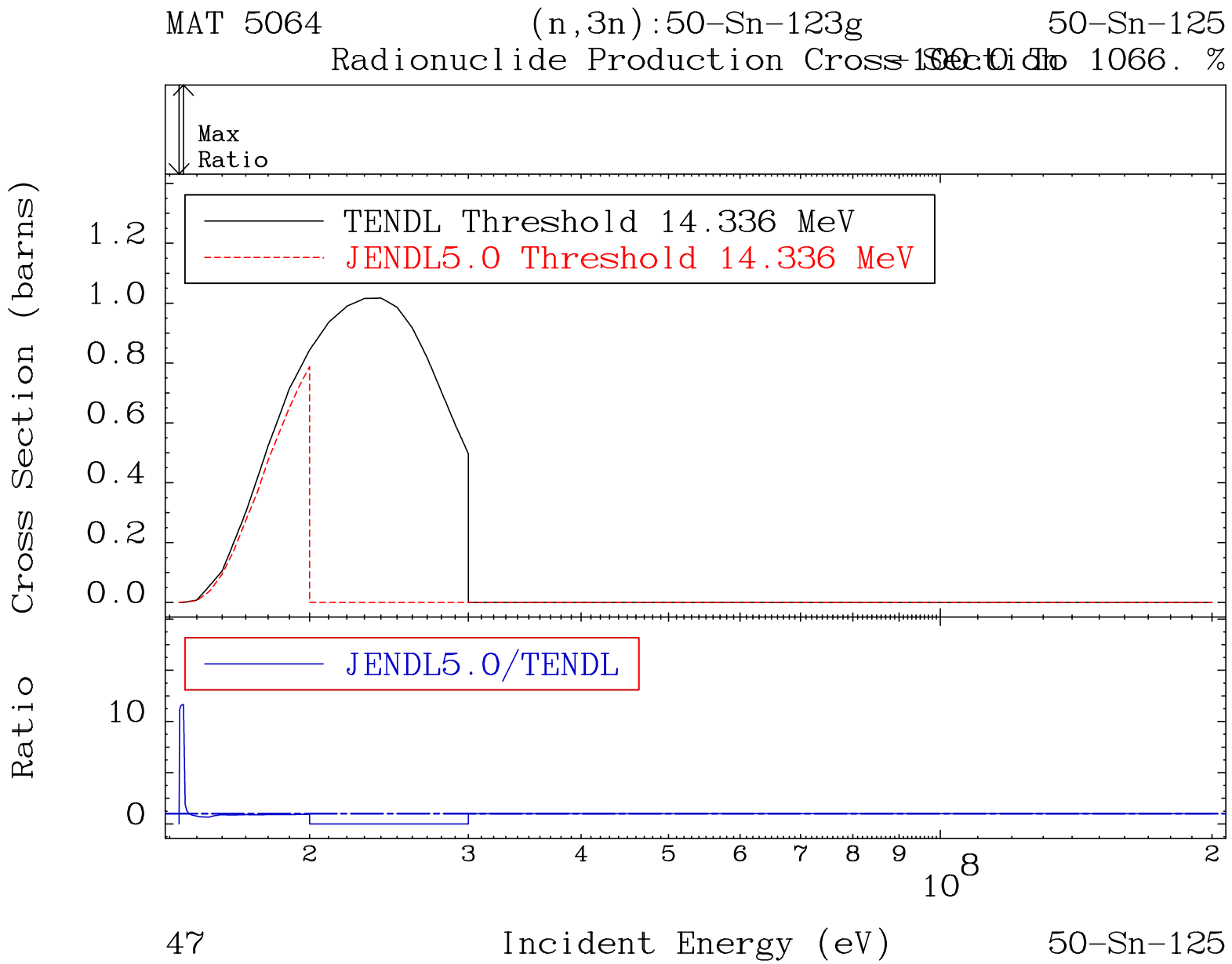

MAT 5064
Dpa total (eV-barns)
50-Sn-125
Cross Section -100.0 To 115.4 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
42
50-Sn-125

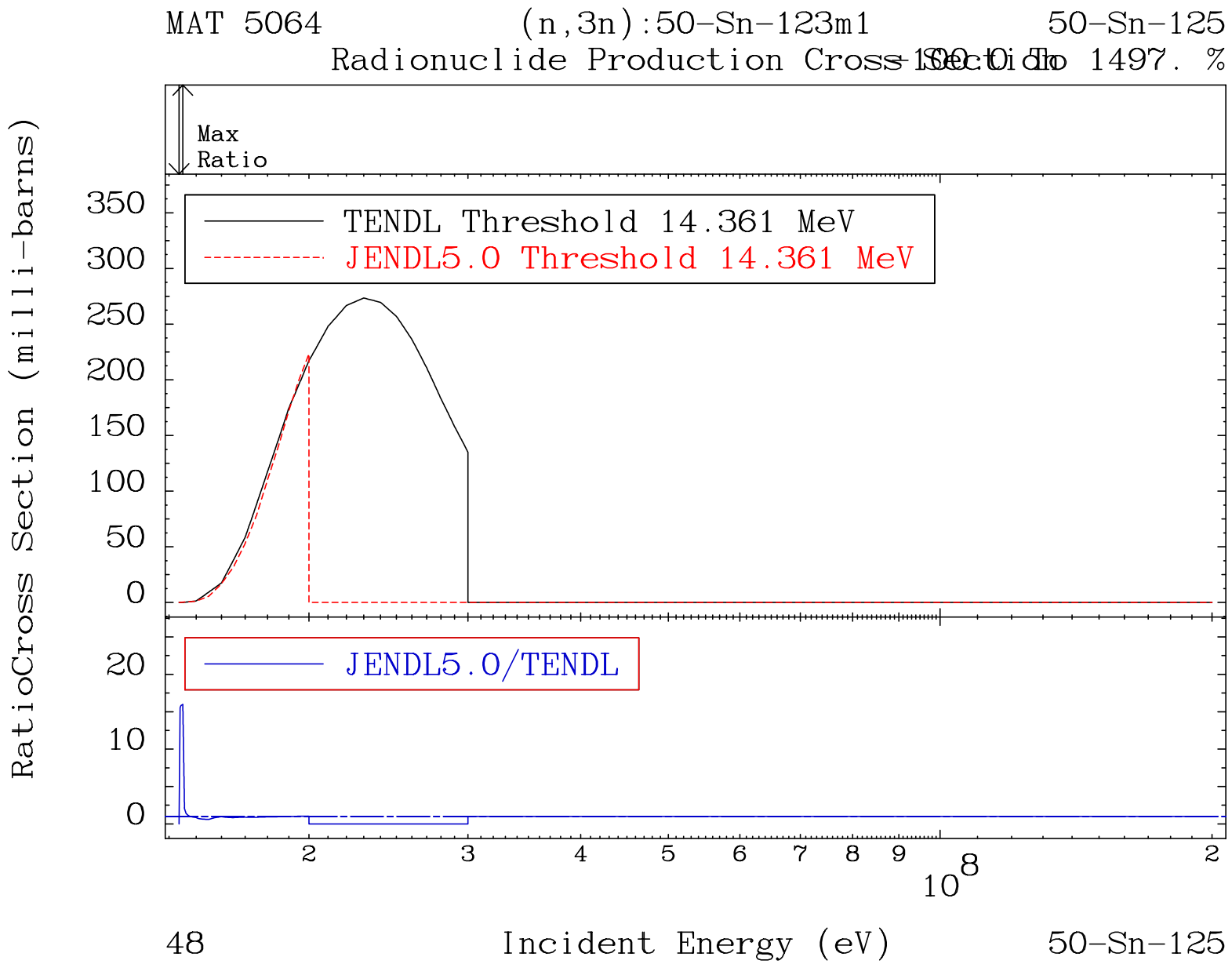

MAT 5064
Dpa elastic (mt2)
Cross Section
50-Sn-125
-37.07 To 24.27 %
Min Ratio
Max Ratio
TENDL Threshold 740.00 eV
JENDL5.0 Threshold 800.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
50-Sn-125

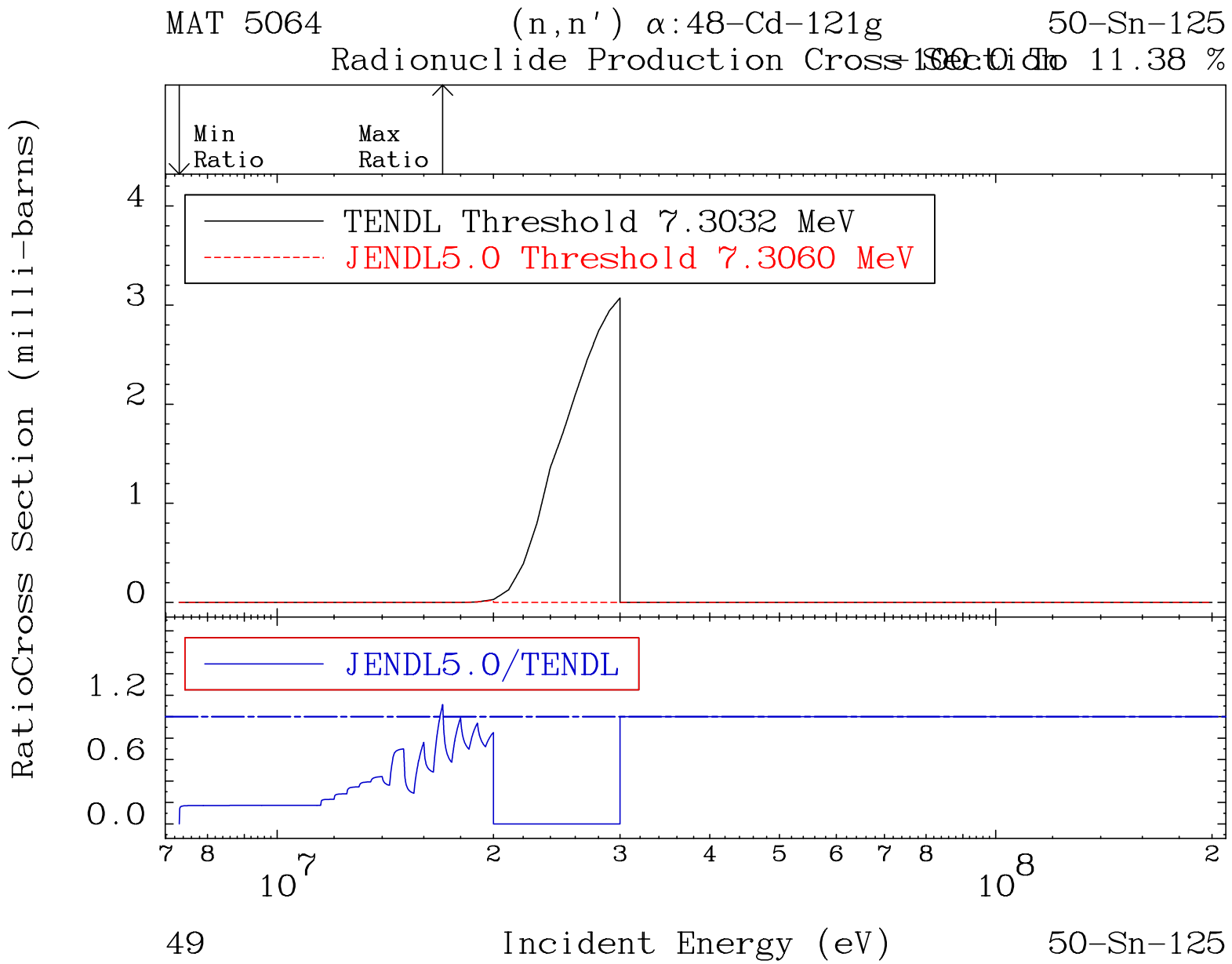

MAT 5064
Dpa inelastic (mt51-91)
50-Sn-125
Cross Section -100.0 To 93.22 %
Max Ratio
Min Ratio
TENDL Threshold 27.722 keV
JENDL5.0 Threshold 27.722 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
50-Sn-125

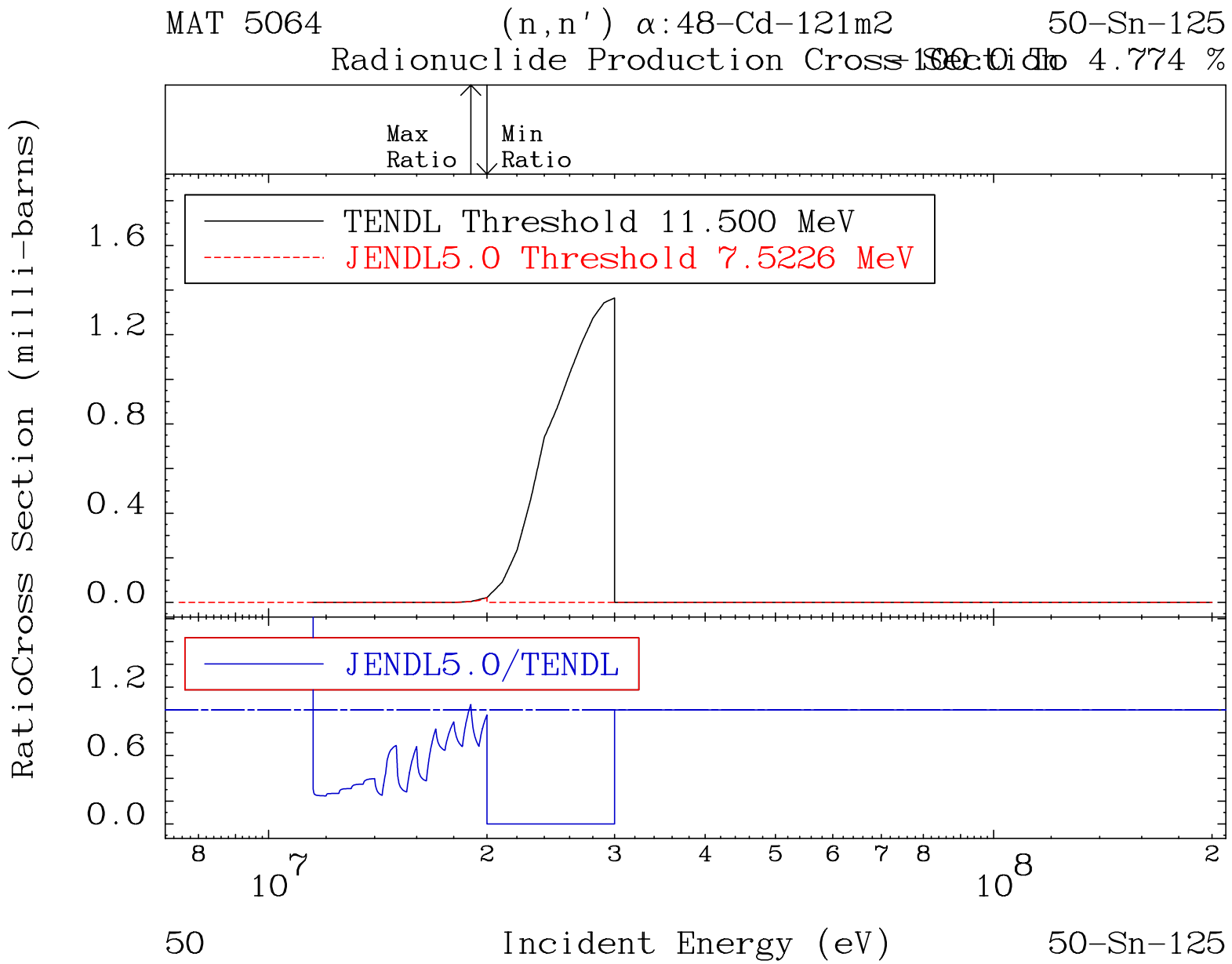

MAT 5064 Dpa disappearance (mt102 -120) 50-Sn-125
Cross Section -100.0 To 115.4 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
50-Sn-125

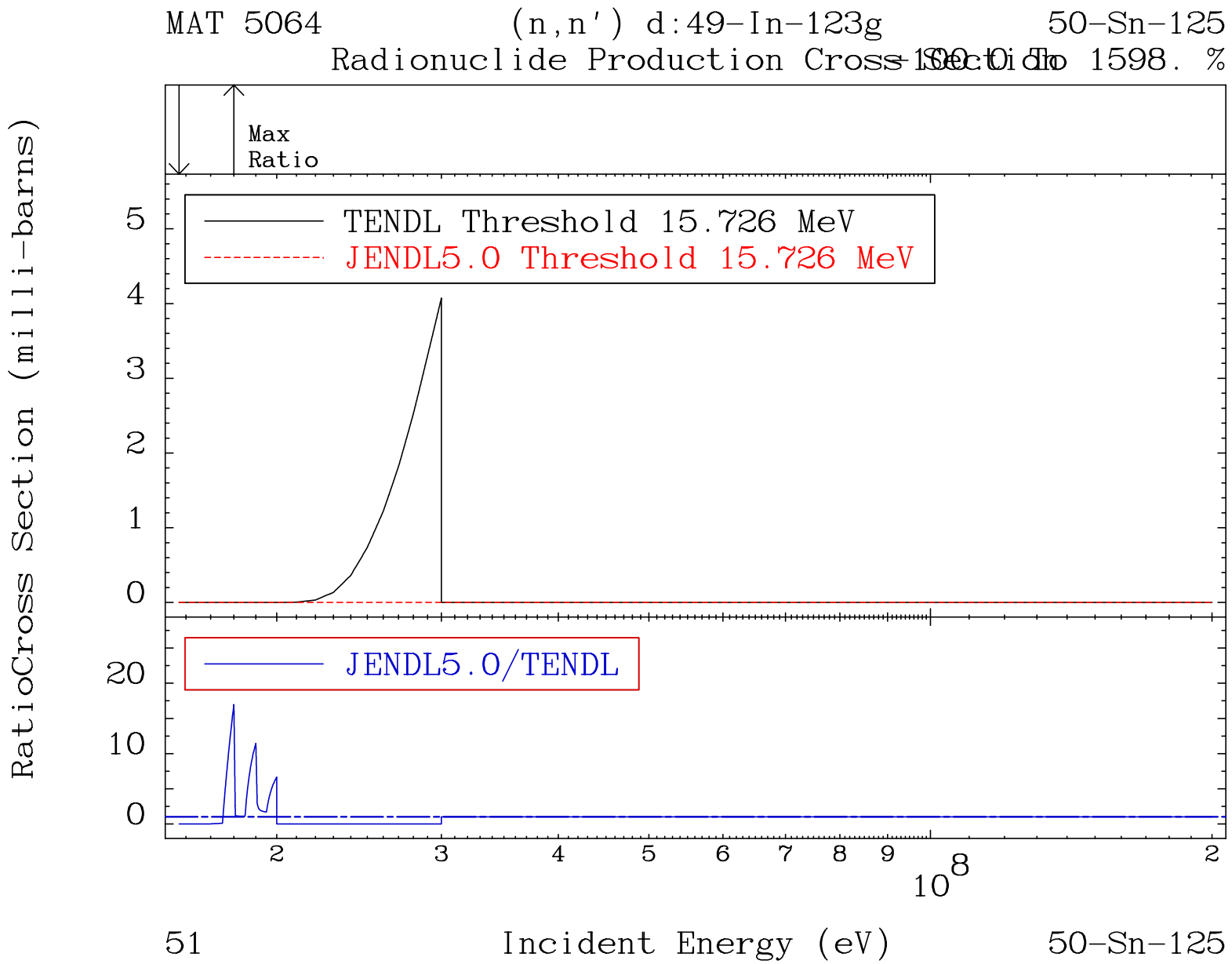

MAT 5064
Inelastic:50-Sn-125m1
50-Sn-125
Radionuclide Production Cross Section To 72.55 %
Max
Ratio
TENDL Threshold 27.722 keV
JENDL5.0 Threshold 27.722 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
2.0
1.0
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
46
Incident Energy (eV)
50-Sn-125

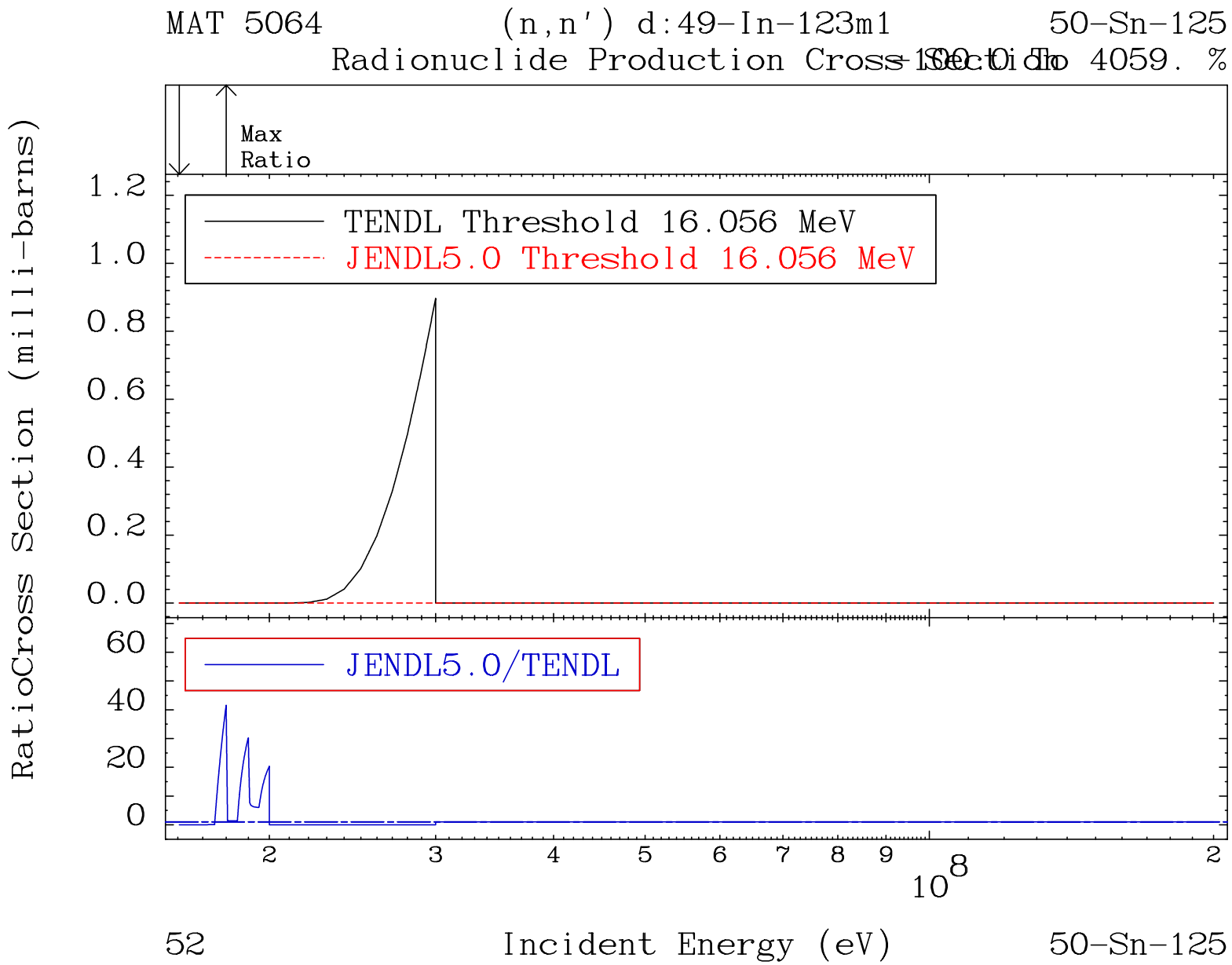

MAT 5064
(n,3n):50-Sn-123g
50-Sn-125
Radionuclide Production Cross Section To 1066. %
Max
Ratio
TENDL Threshold 14.336 MeV
JENDL5.0 Threshold 14.336 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
10
0
2
3
4
5
6
7
8
9
2
10^8
47
Incident Energy (eV)
50-Sn-125

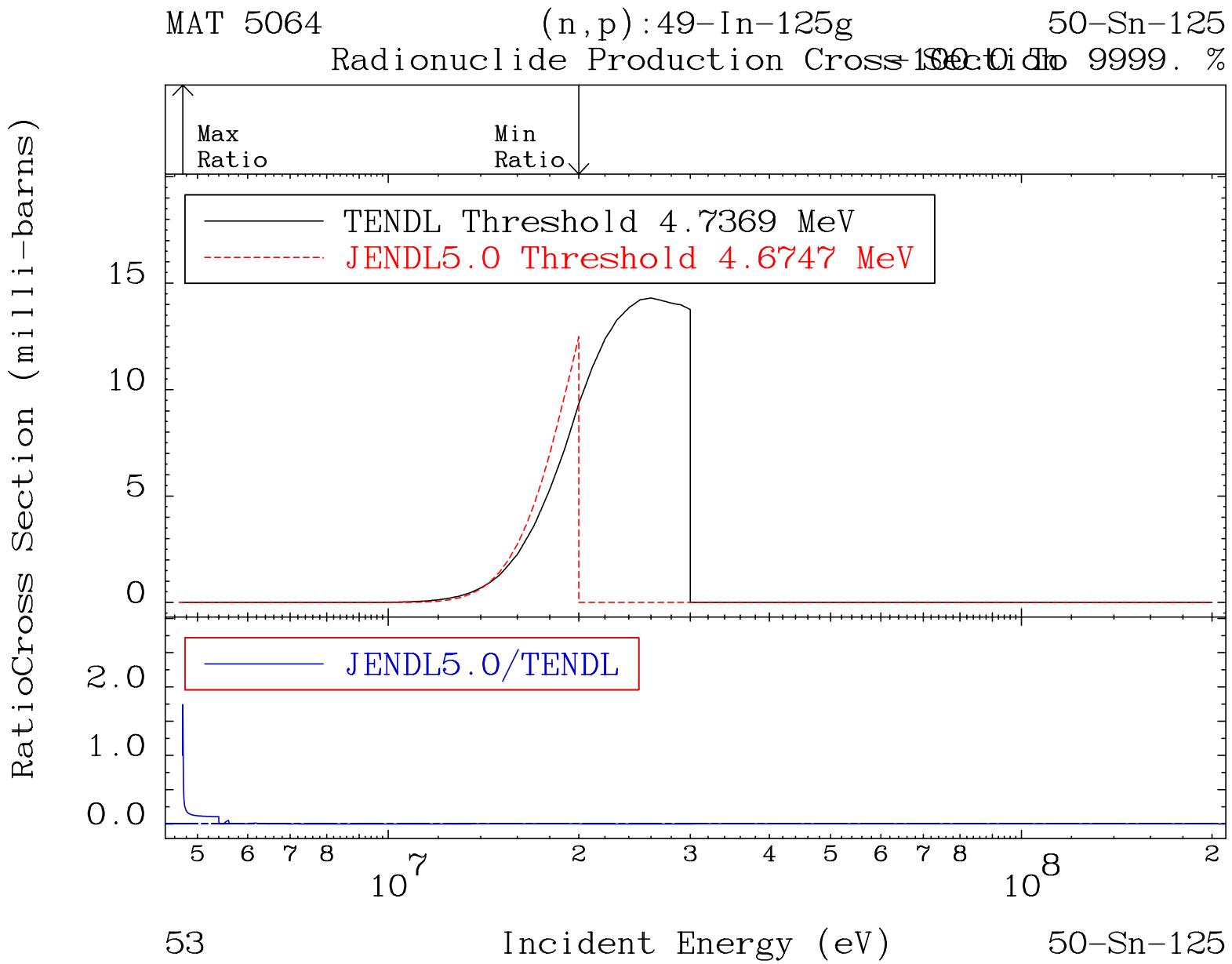

MAT 5064
(n,3n):50-Sn-123m1
50-Sn-125
Radionuclide Production Cross Section To 1497. %
Max
Ratio
TENDL Threshold 14.361 MeV
JENDL5.0 Threshold 14.361 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
20
10
0
2
3
4
5
6
7
8
9
2
10^8
48
Incident Energy (eV)
50-Sn-125

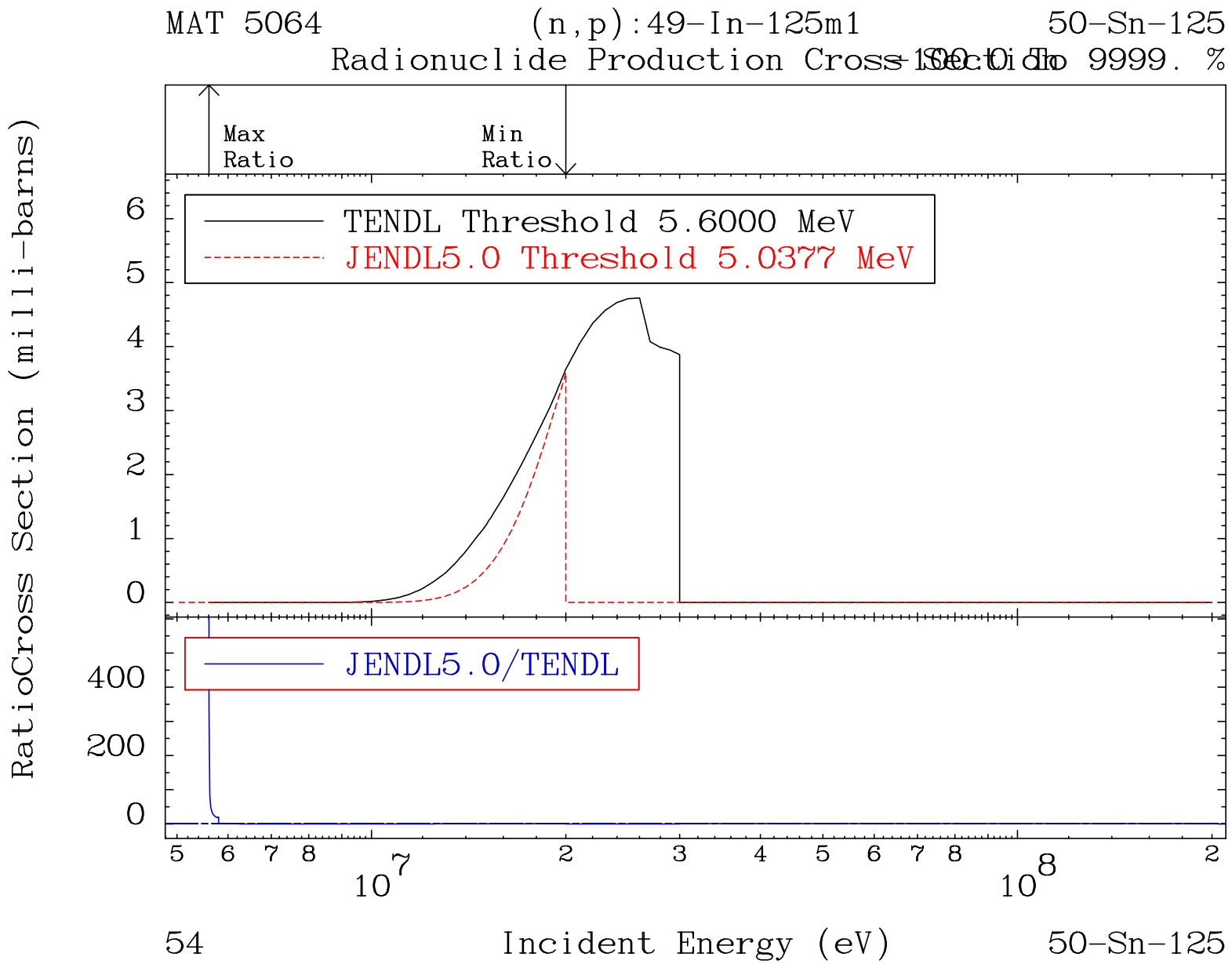

MAT 5064
(n,n') α:48-Cd-121g
50-Sn-125
Radionuclide Production Cross Section To 11.38 %
Min Ratio
Max Ratio
TENDL Threshold 7.3032 MeV
JENDL5.0 Threshold 7.3060 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
49
50-Sn-125

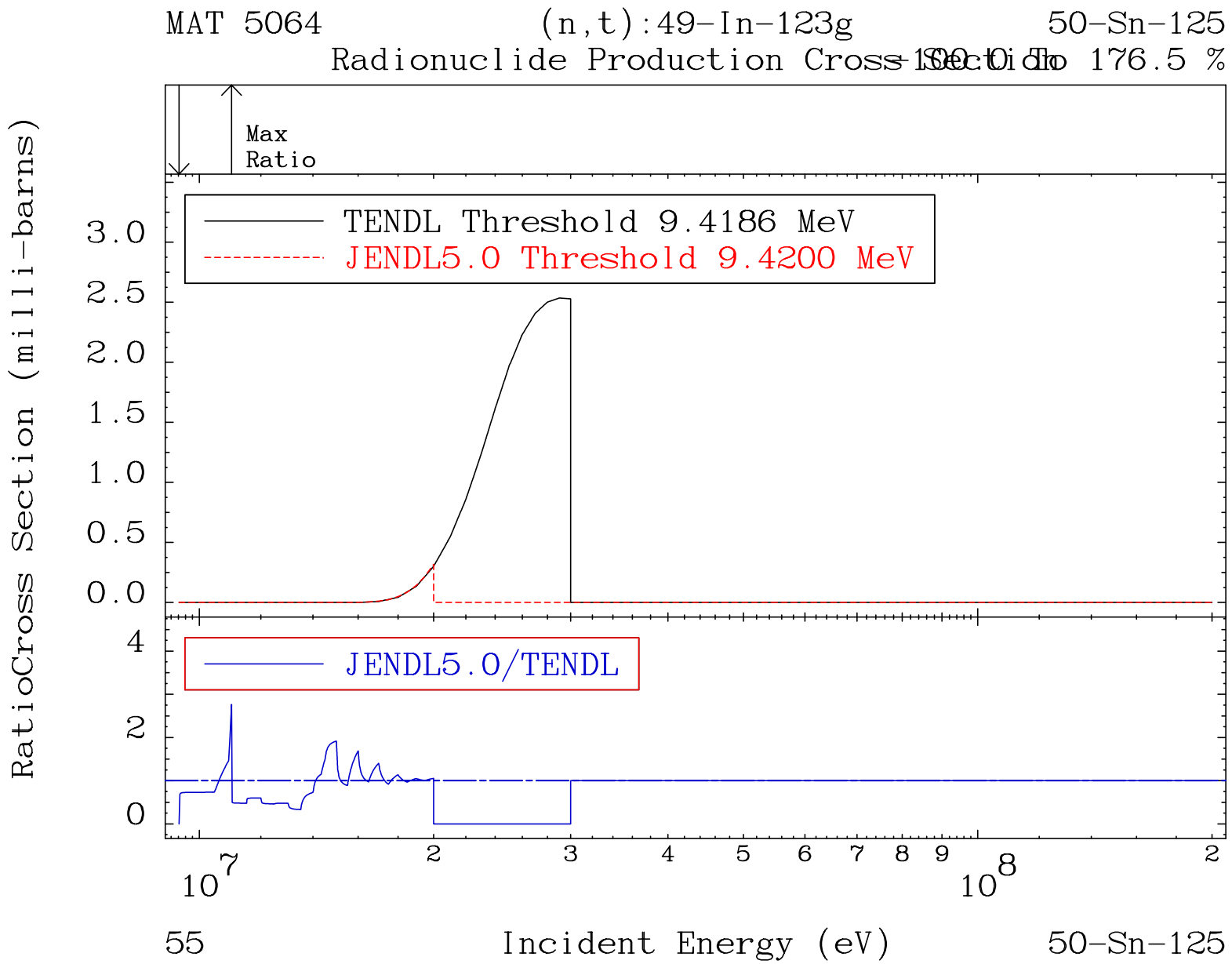

MAT 5064
(n,n') α:48-Cd-121m2
50-Sn-125
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 11.500 MeV
JENDL5.0 Threshold 7.5226 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50
50-Sn-125

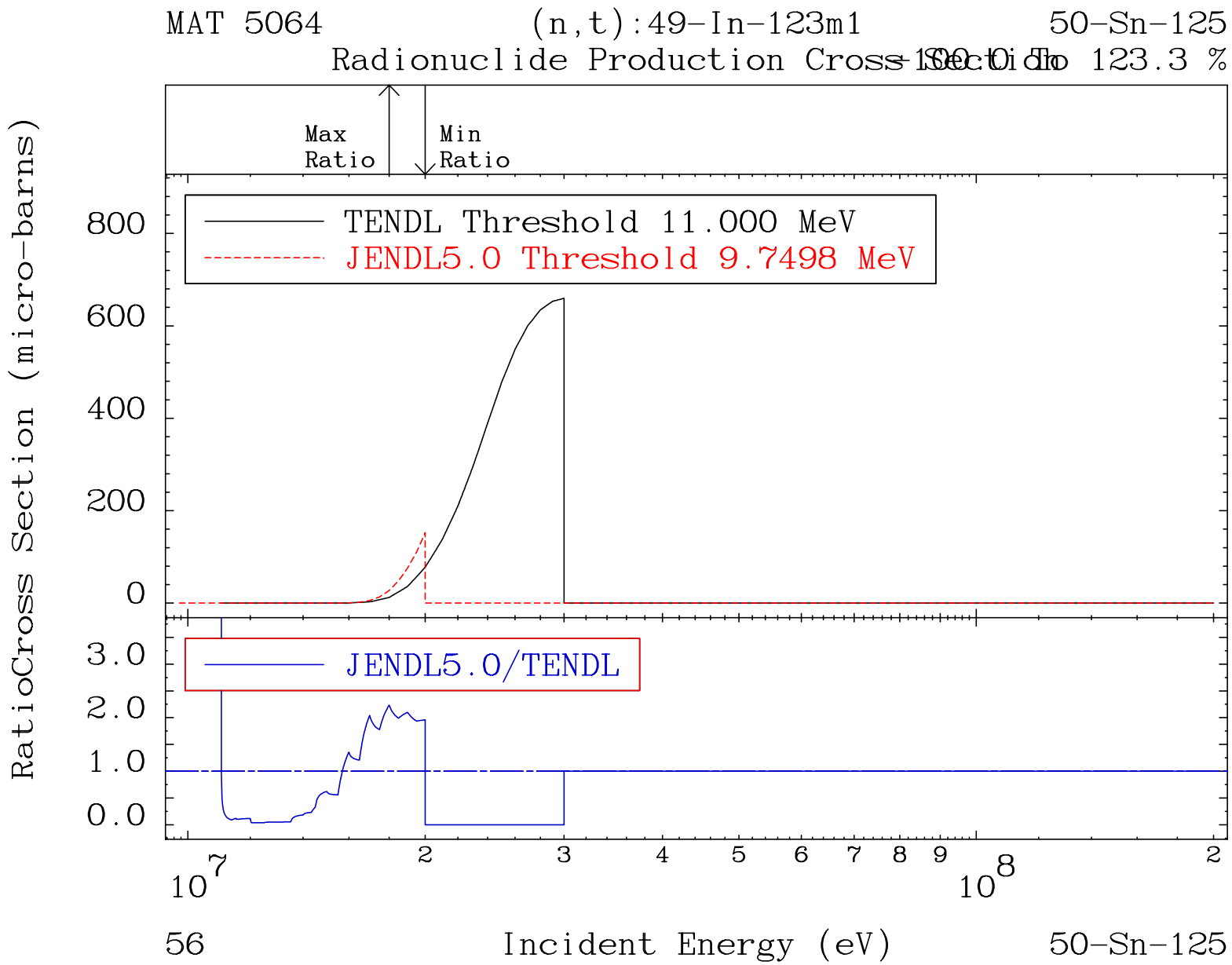

MAT 5064
(n,n') d:49-In-123g
50-Sn-125
Radionuclide Production Cross Section To 1598. %
Max
Ratio
TENDL Threshold 15.726 MeV
JENDL5.0 Threshold 15.726 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
51
50-Sn-125

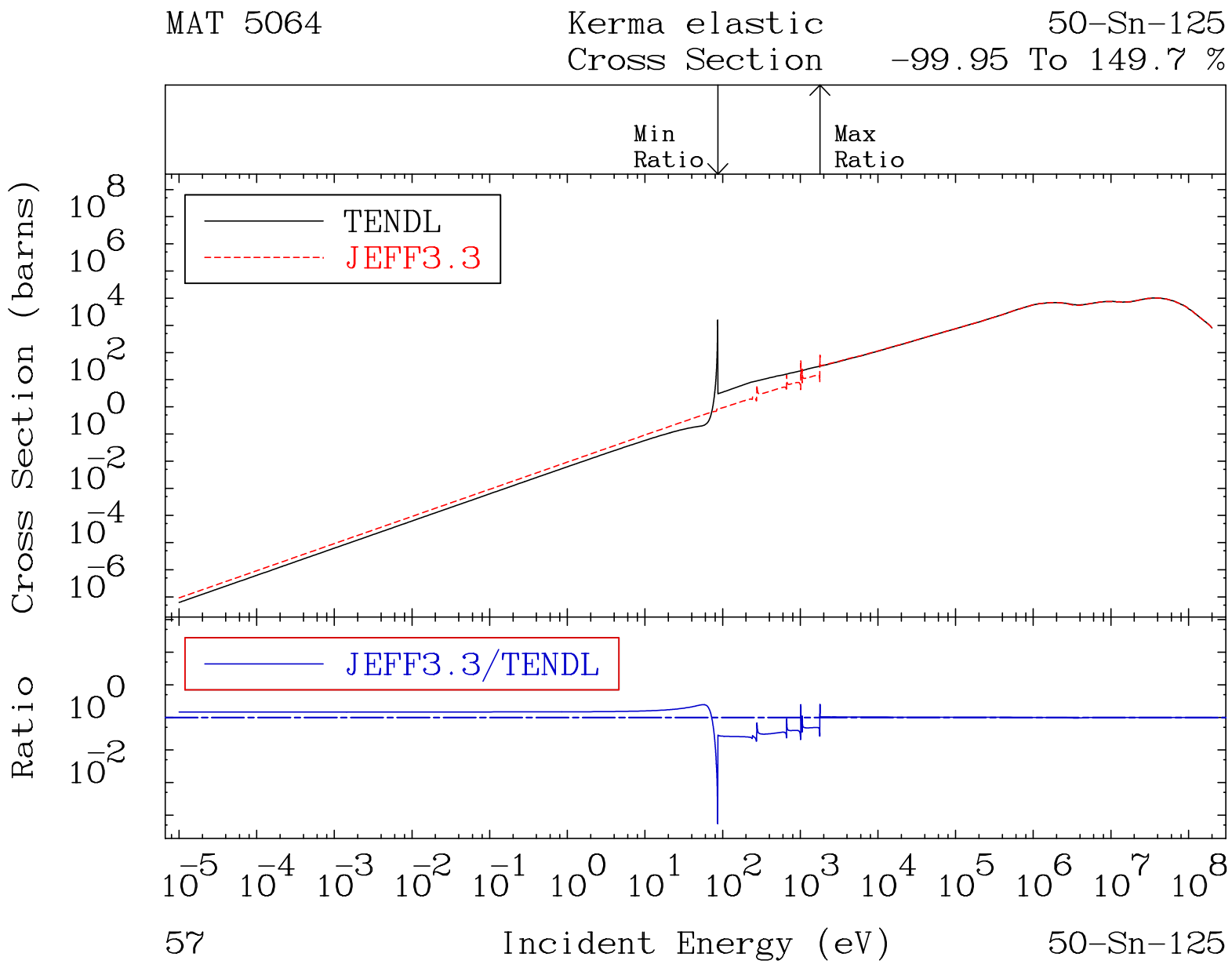

MAT 5064
(n,n') d:49-In-123m1
50-Sn-125
Radionuclide Production Cross Section To 4059. %
Max
Ratio
TENDL Threshold 16.056 MeV
JENDL5.0 Threshold 16.056 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
60
40
20
0
2
3
4
5
6
7
8
9
2
10^8
52
Incident Energy (eV)
50-Sn-125

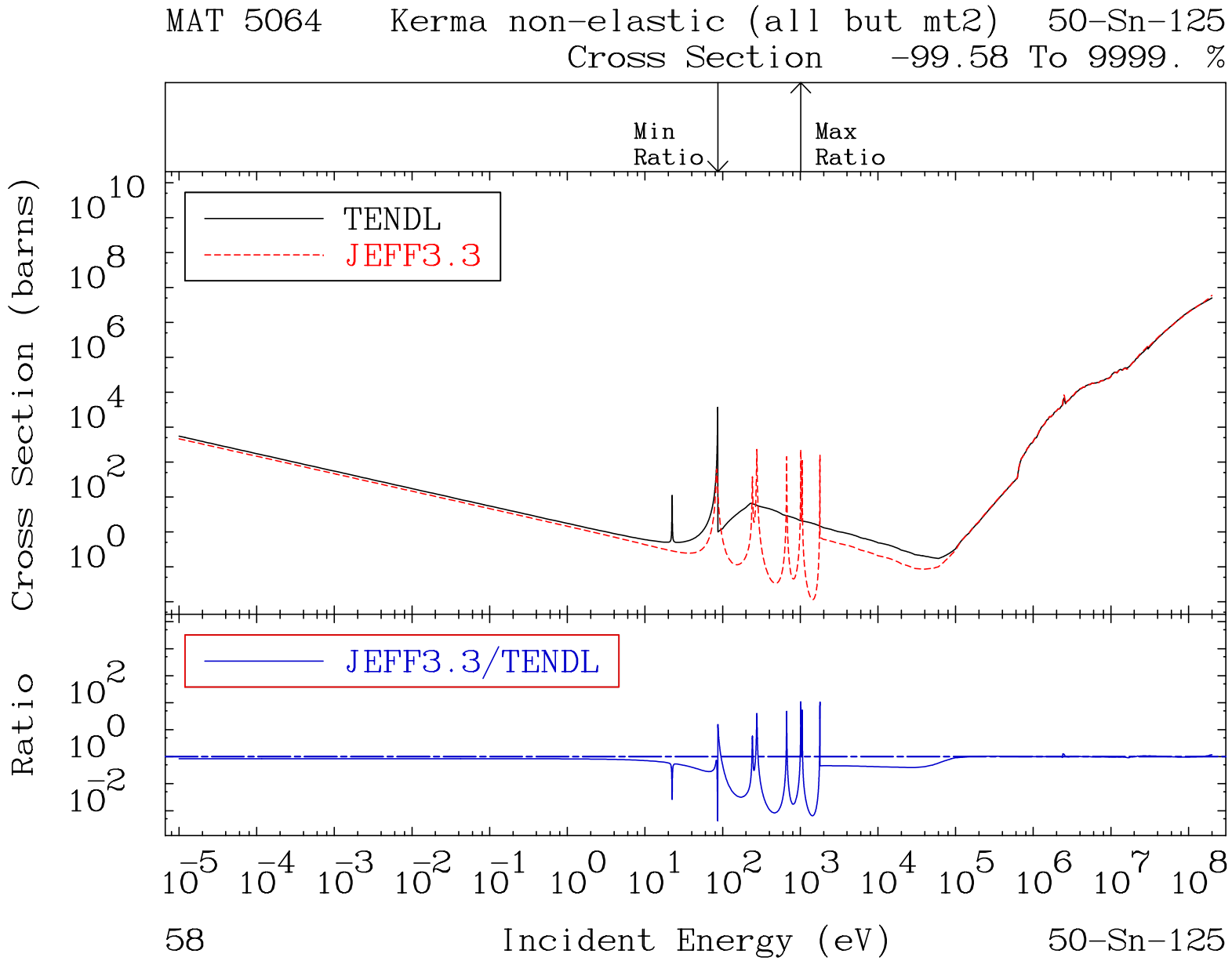

MAT 5064
(n,p):49-In-125g
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7369 MeV
JENDL5.0 Threshold 4.6747 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
2.0
1.0
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
53
Incident Energy (eV)
50-Sn-125

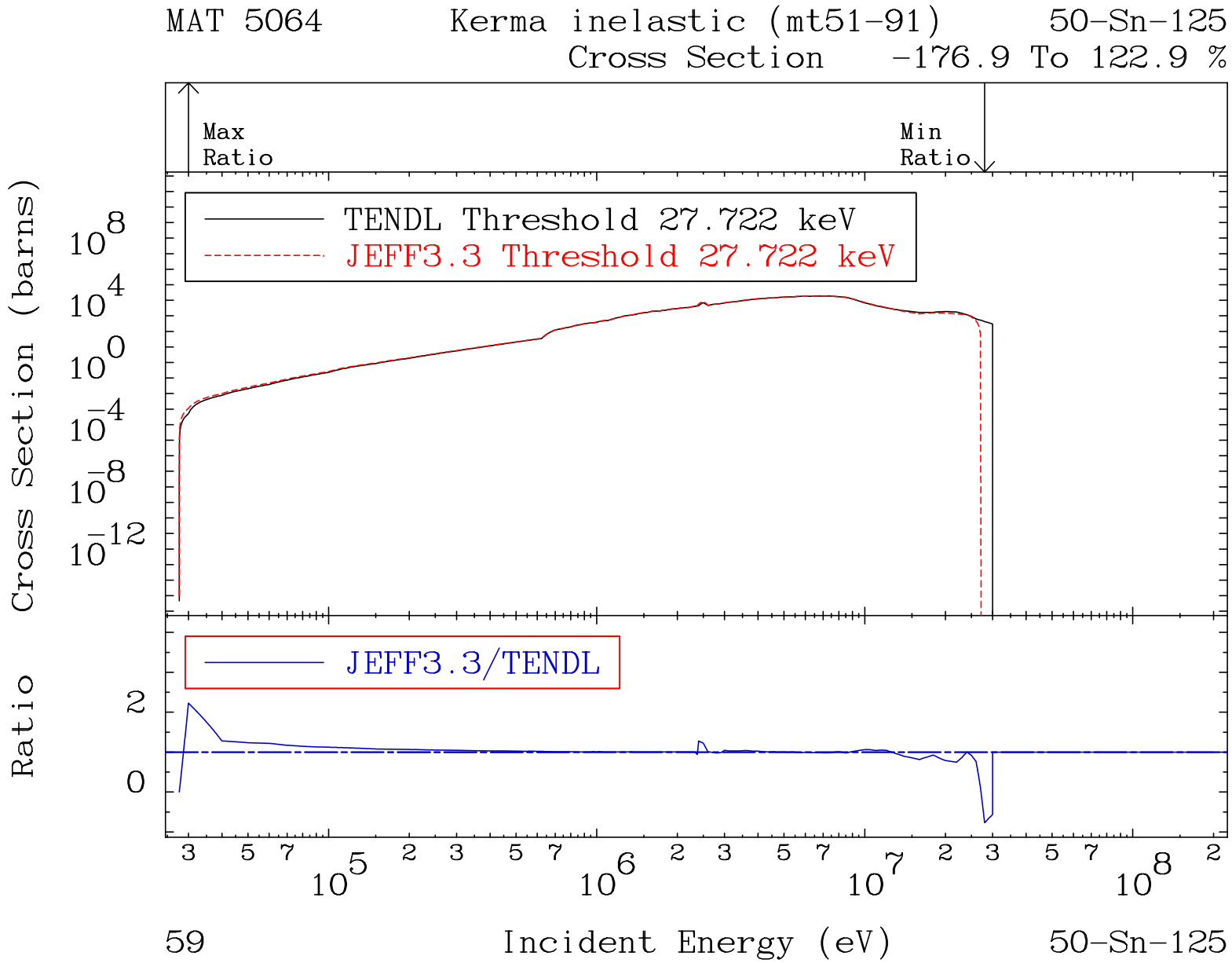

MAT 5064
(n,p):49-In-125m1
50-Sn-125
Radionuclide Production Cross Section
1.00 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.6000 MeV
JENDL5.0 Threshold 5.0377 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
50-Sn-125

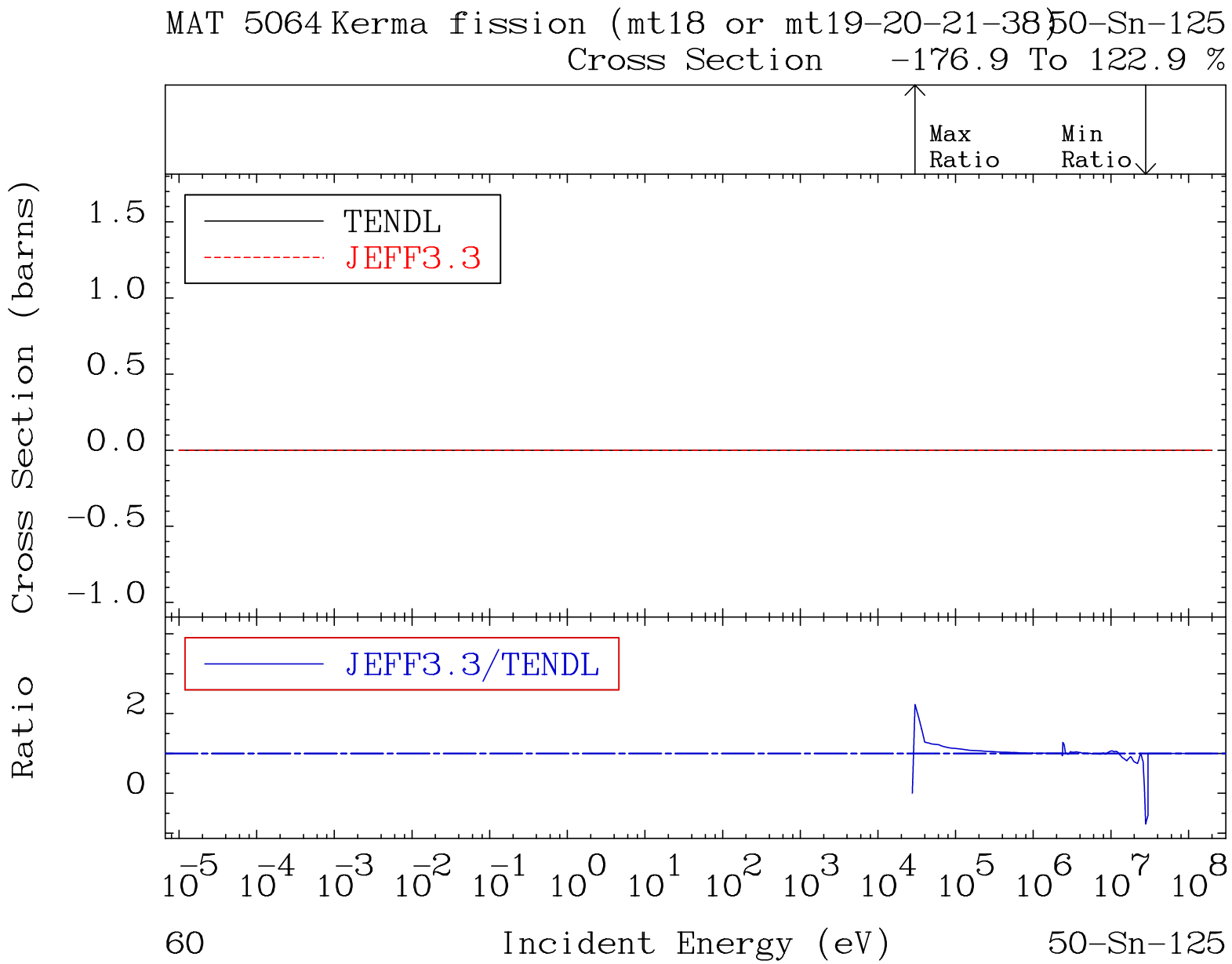

MAT 5064
(n,t):49-In-123g
50-Sn-125
Radionuclide Production Cross Section To 176.5 %
Max
Ratio
TENDL Threshold 9.4186 MeV
JENDL5.0 Threshold 9.4200 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
50-Sn-125

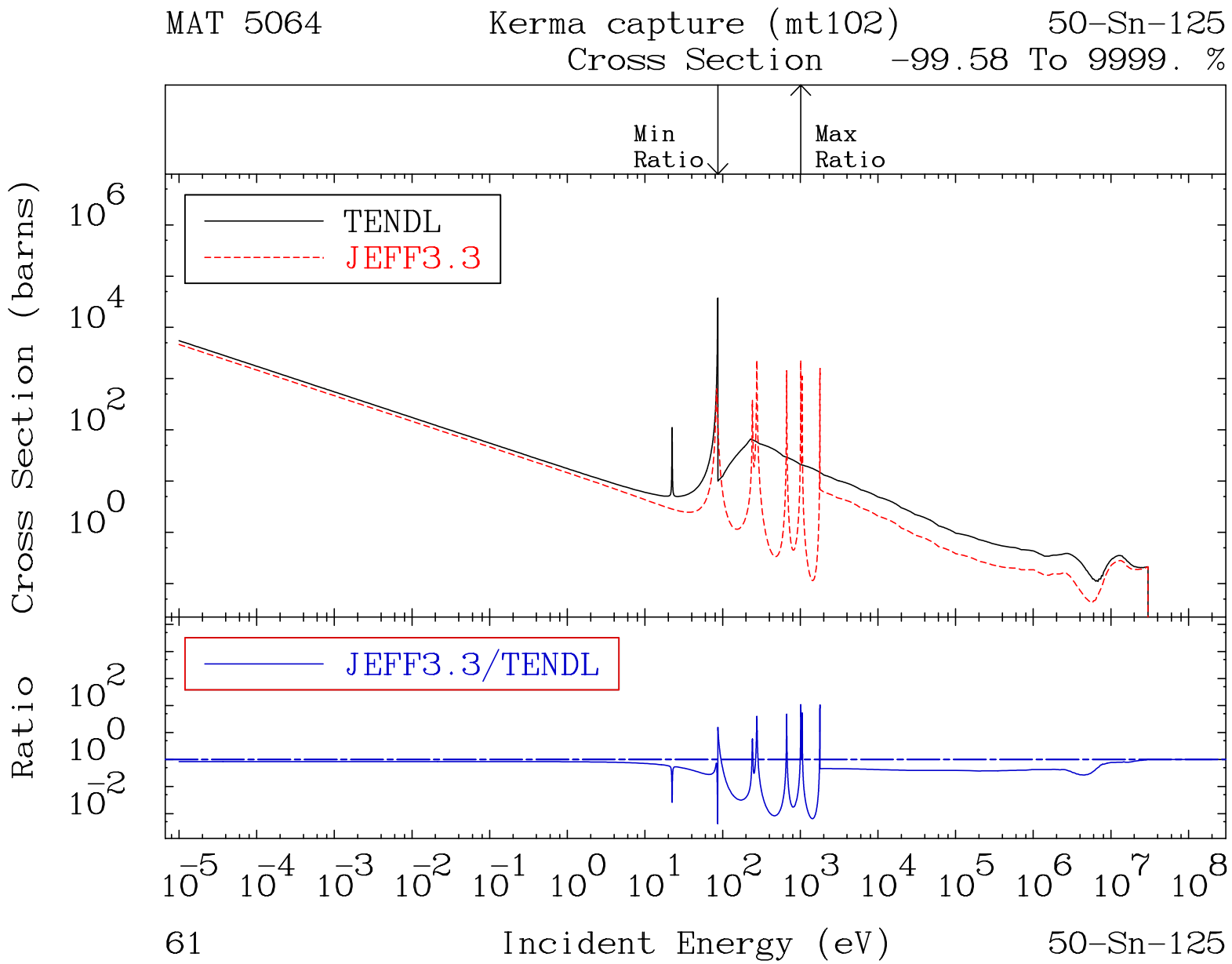

MAT 5064
(n,t):49-In-123m1
50-Sn-125
Radionuclide Production Cross Section To 123.3 %
Max Ratio
Min Ratio
TENDL Threshold 11.000 MeV
JENDL5.0 Threshold 9.7498 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
3.0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
50-Sn-125

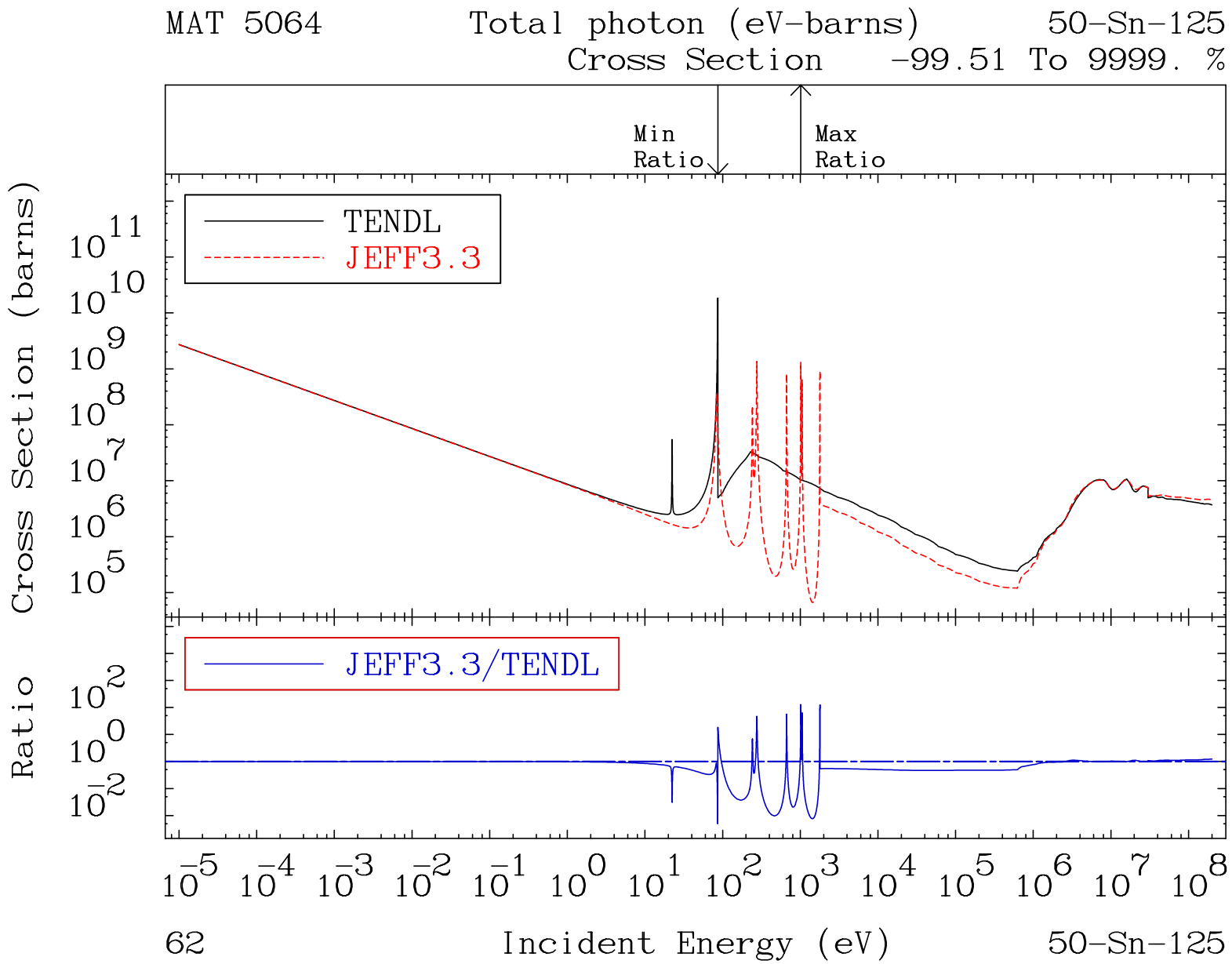

MAT 5064
Kerma elastic
Cross Section
50-Sn-125
-99.95 To 149.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
50-Sn-125

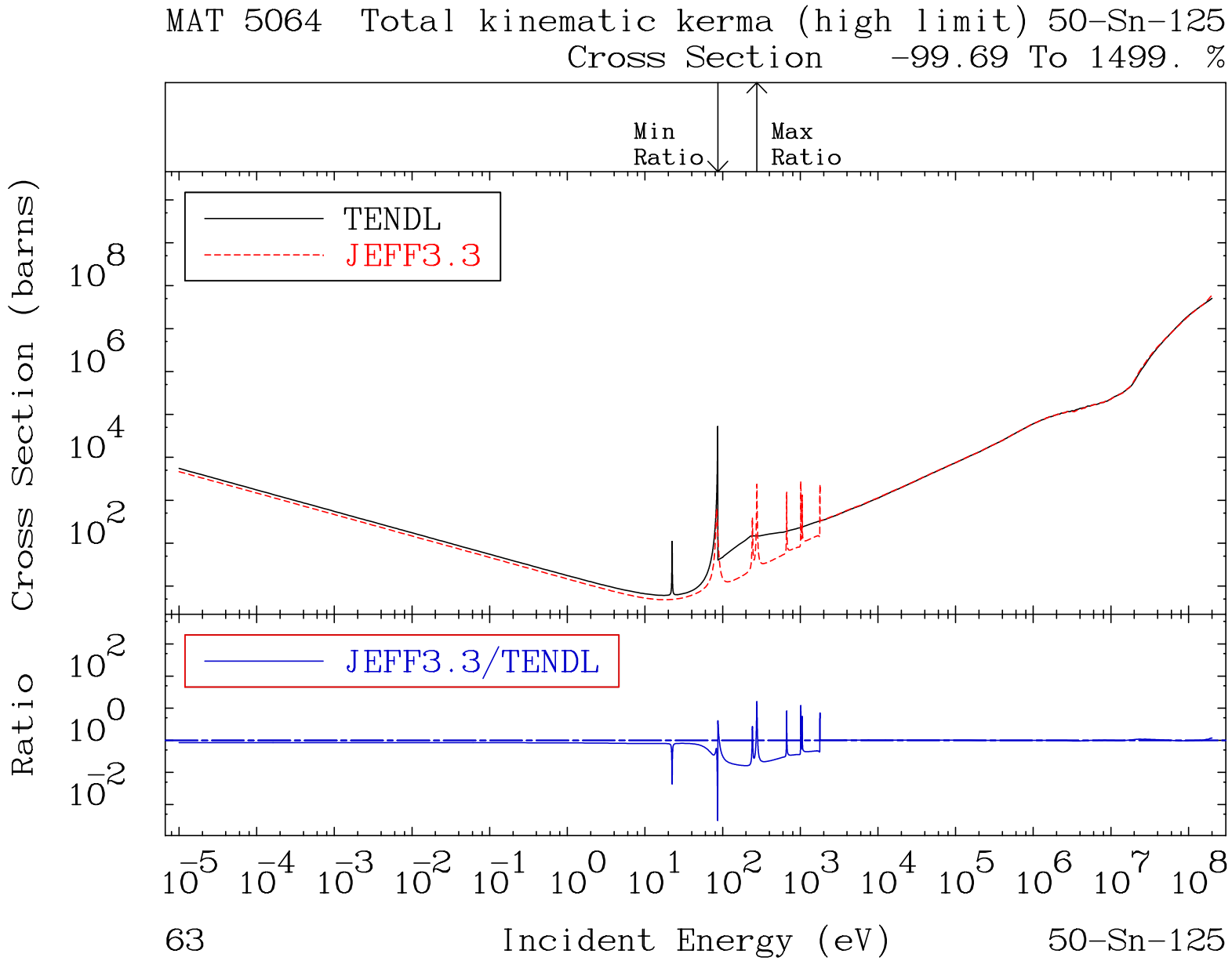

MAT 5064 Kerma non-elastic (all but mt2) 50-Sn-125
Cross Section -99.58 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
50-Sn-125

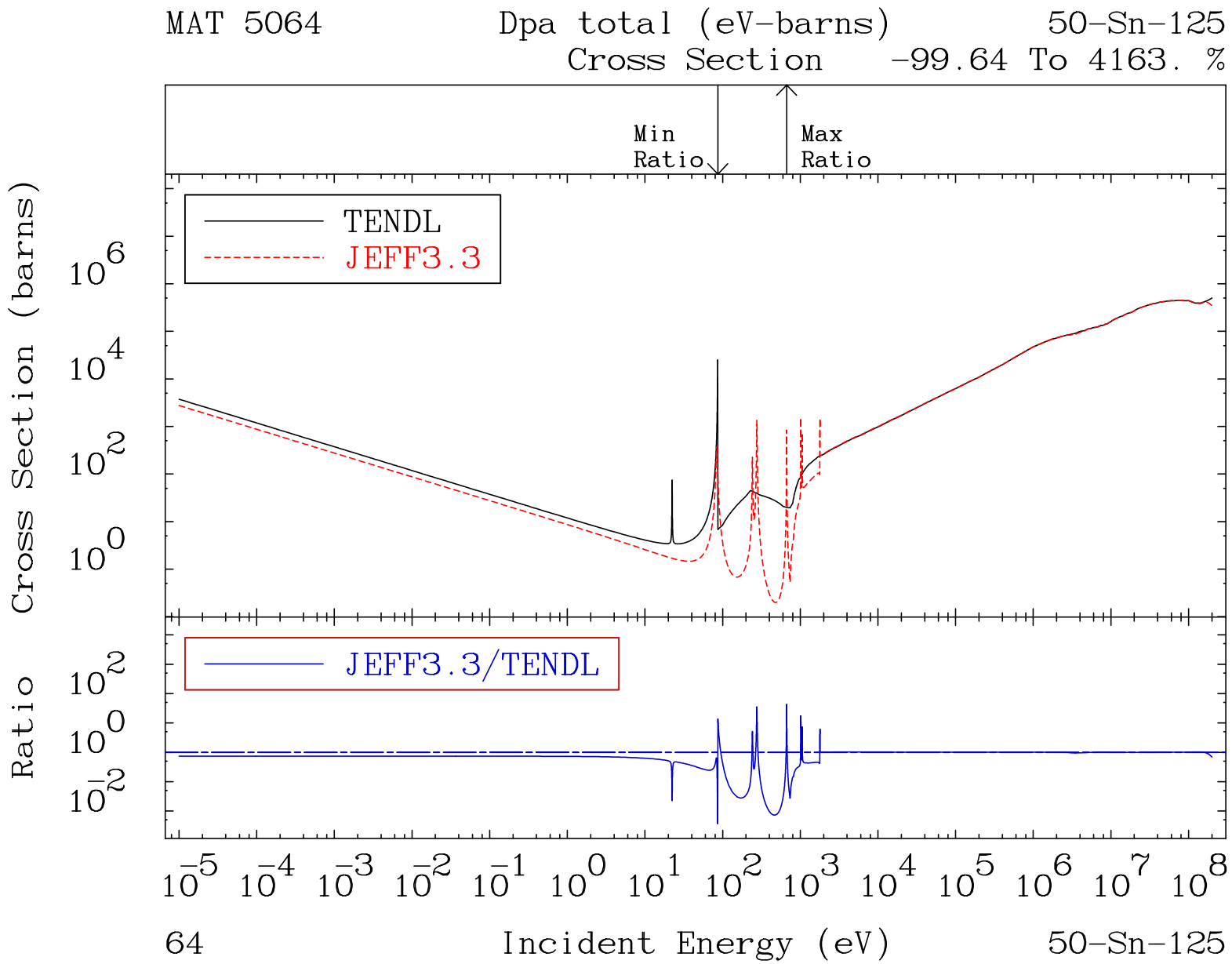

MAT 5064
Kerma inelastic (mt51-91)
50-Sn-125
Cross Section
-176.9 To 122.9 %
Max Ratio
Min Ratio
TENDL Threshold 27.722 keV
JEFF3.3 Threshold 27.722 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
59
50-Sn-125

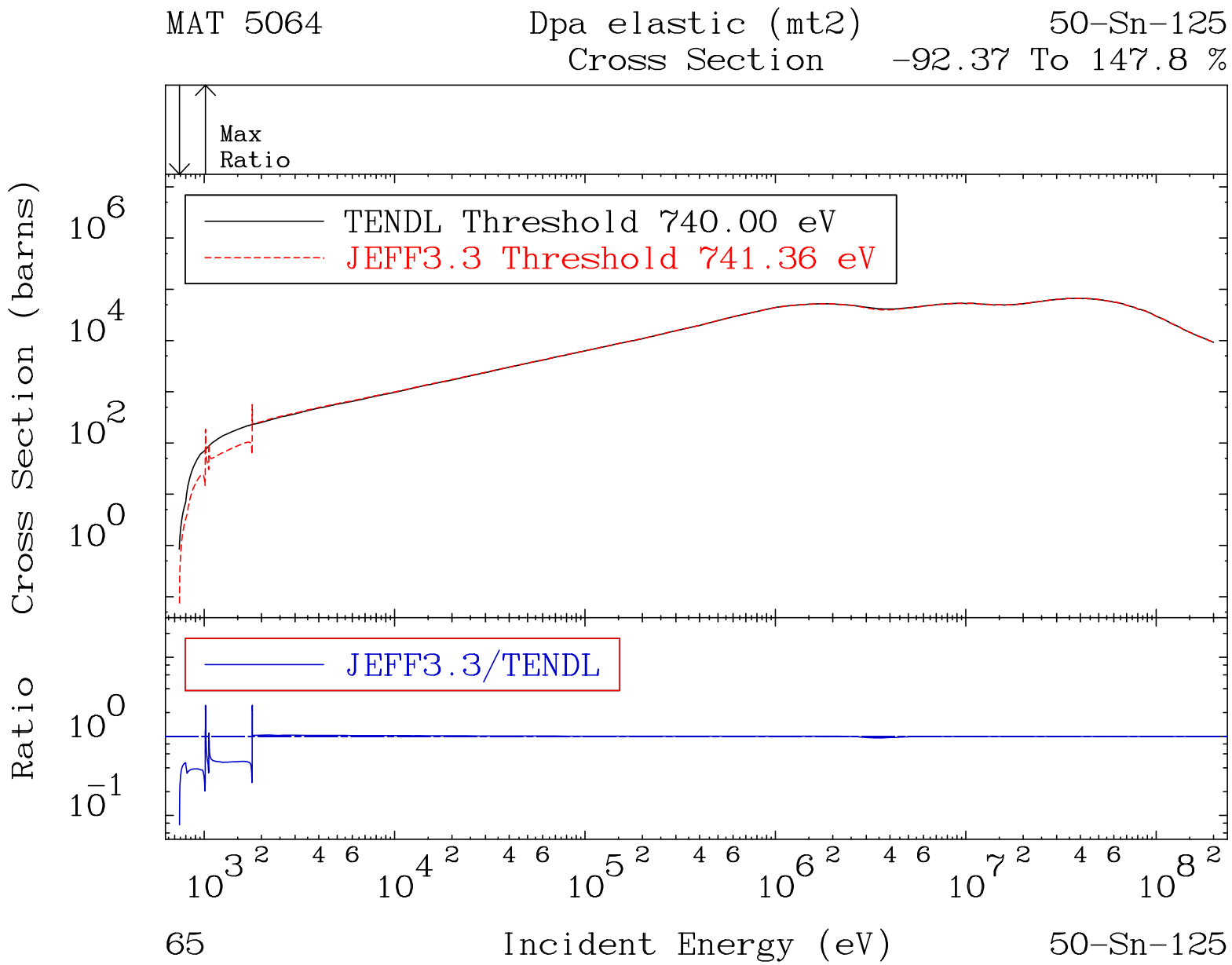

MAT 5064 Kerma fission (mt18 or mt19-20-21-38) 50-Sn-125
Cross Section -176.9 To 122.9 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
2
0
$10^{-5}$ $10^{-4}$ $10^{-3}$ $10^{-2}$ $10^{-1}$ $10^{0}$ $10^{1}$ $10^{2}$ $10^{3}$ $10^{4}$ $10^{5}$ $10^{6}$ $10^{7}$ $10^{8}$
60
Incident Energy (eV)
50-Sn-125

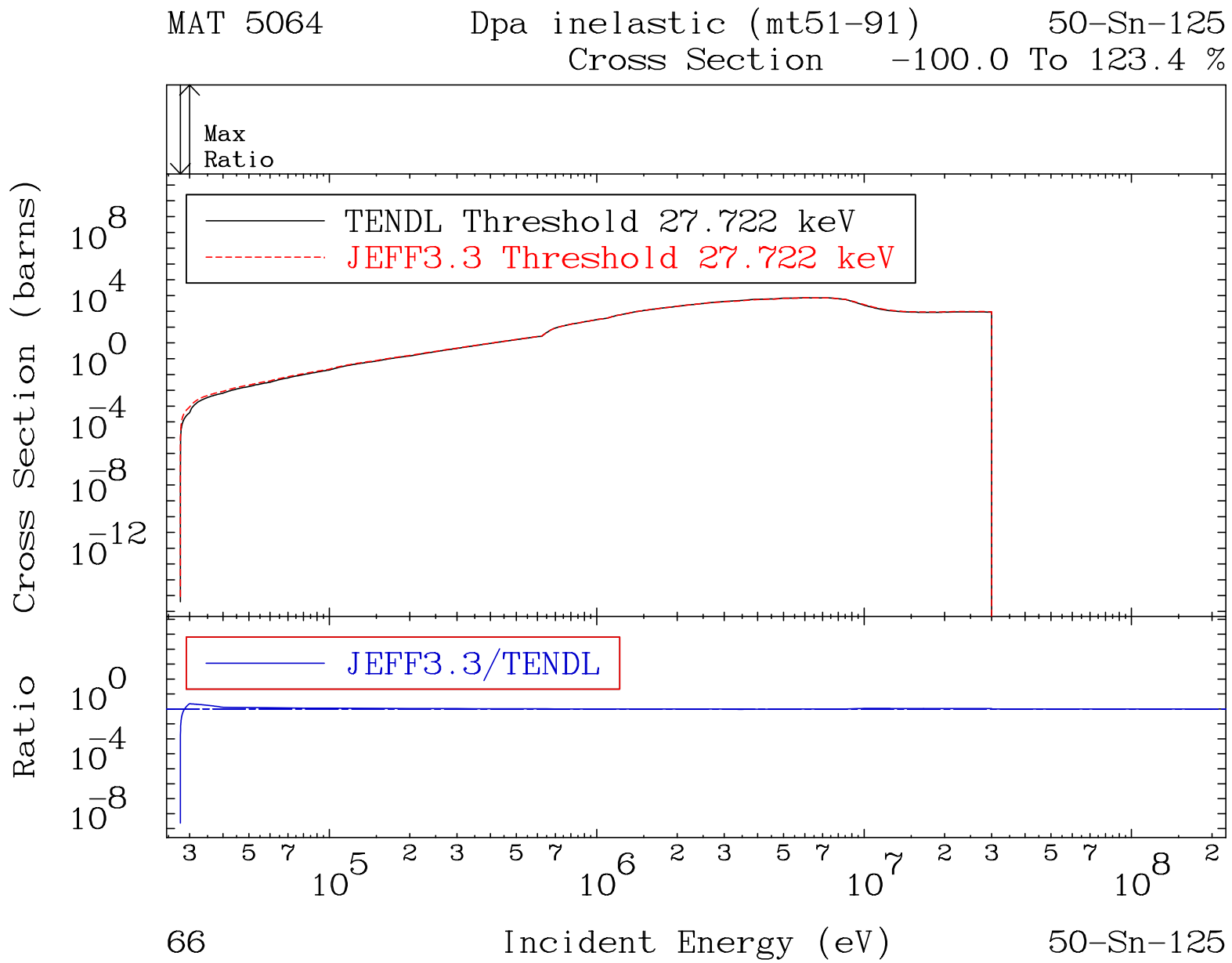

MAT 5064
Kerma capture (mt102)
50-Sn-125
Cross Section -99.58 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
50-Sn-125

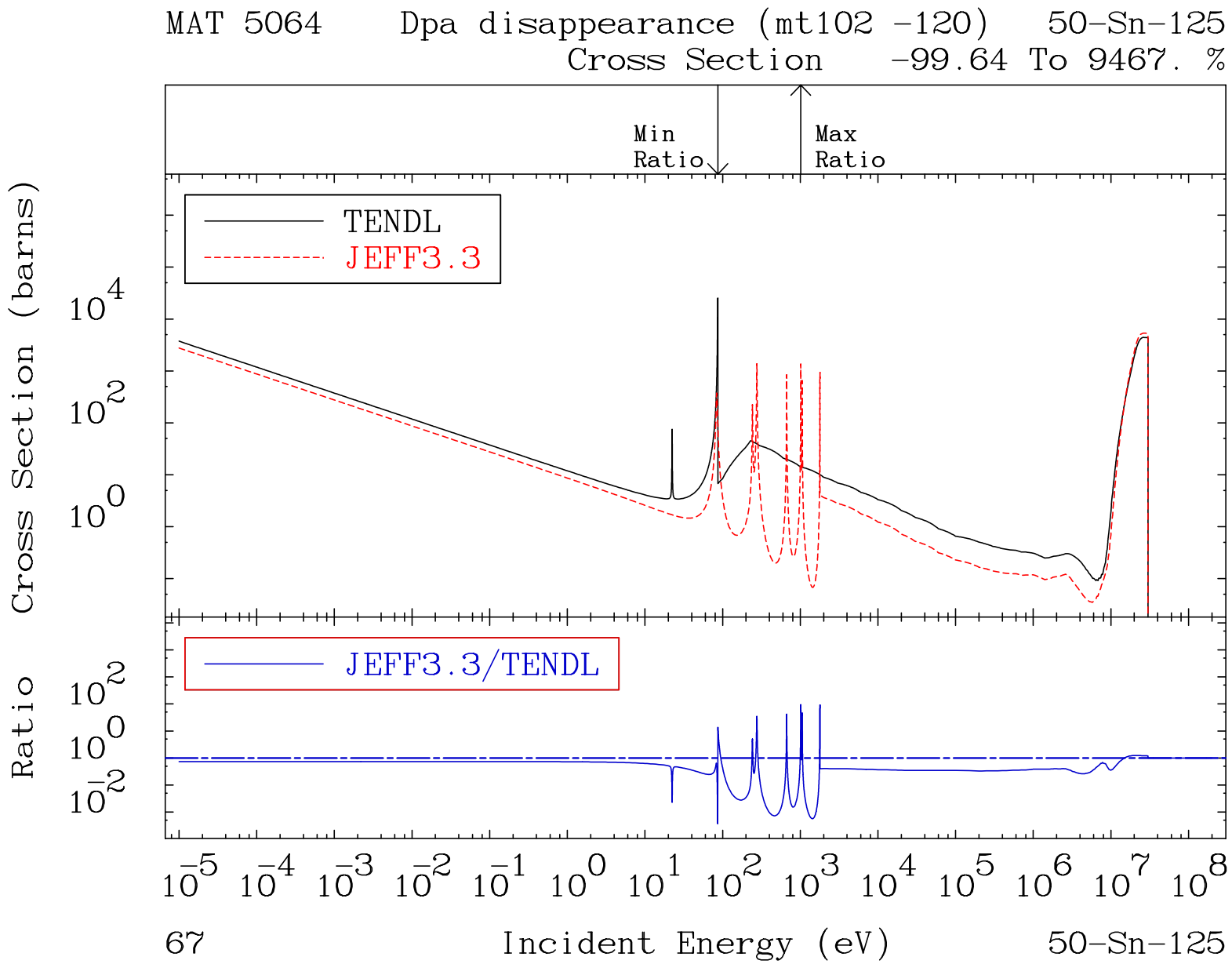

MAT 5064
Total photon (eV-barns)
50-Sn-125
Cross Section -99.51 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
50-Sn-125

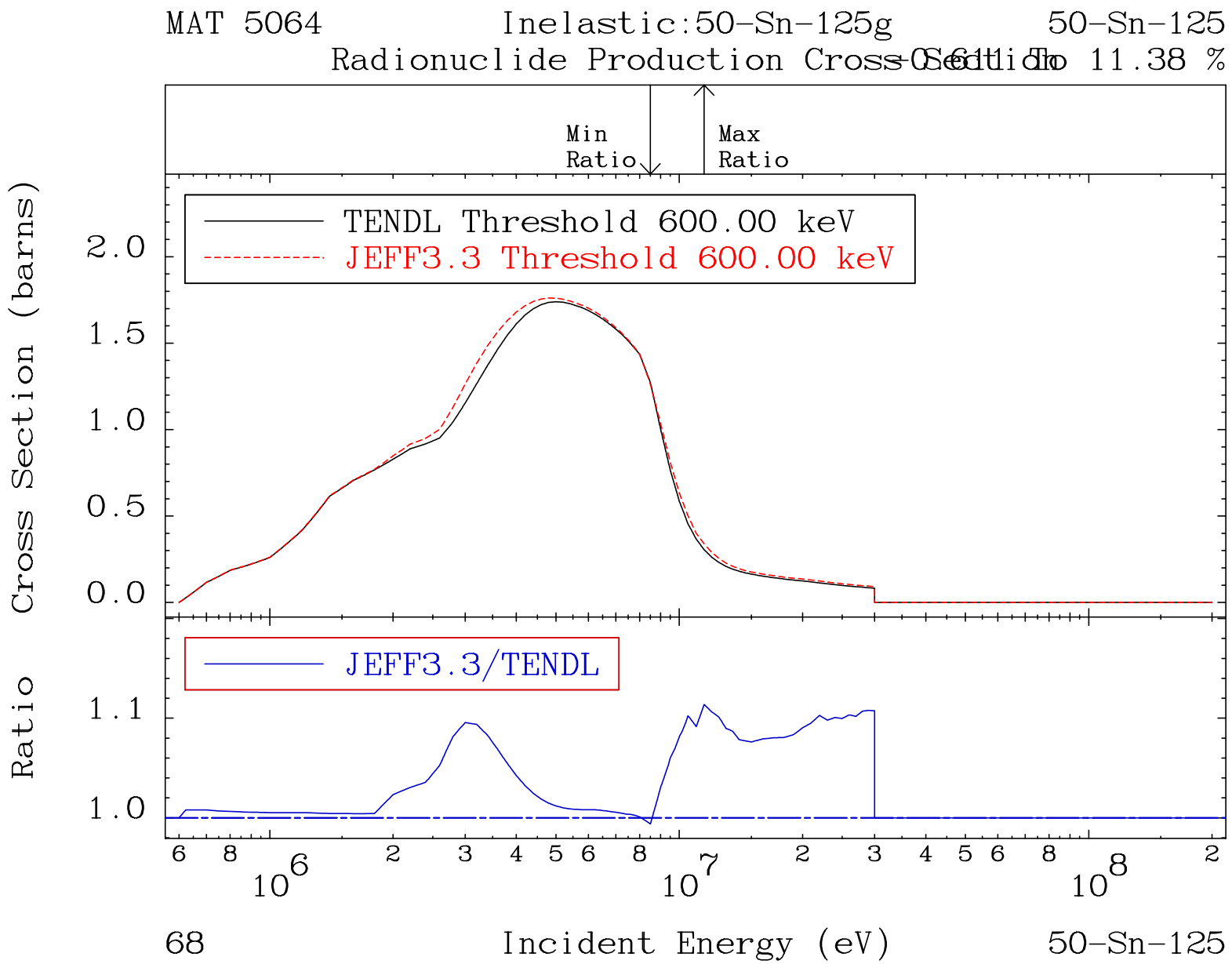

MAT 5064 Total kinematic kerma (high limit) 50-Sn-125
Cross Section -99.69 To 1499. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
50-Sn-125

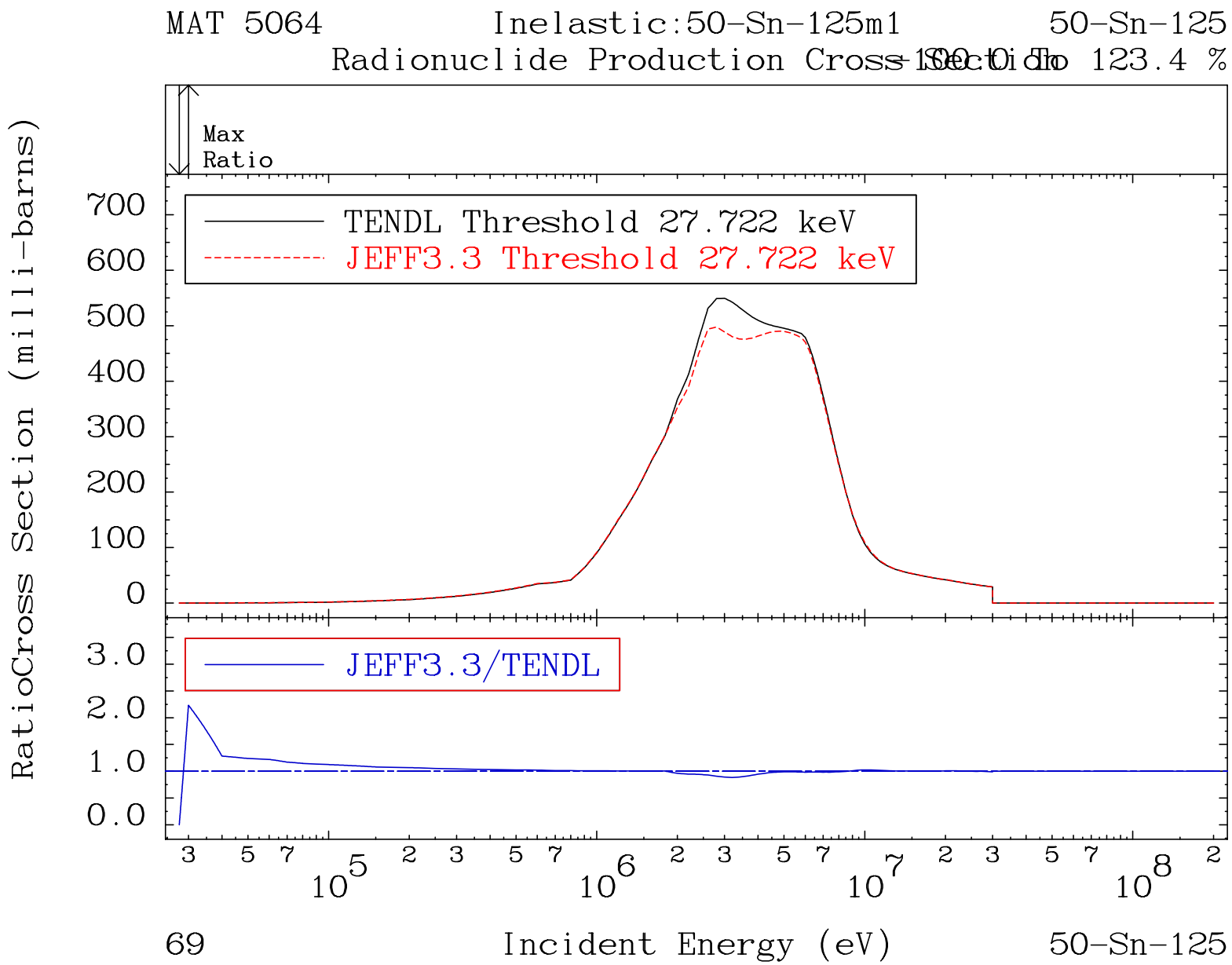

MAT 5064
Dpa total (eV-barns)
50-Sn-125
Cross Section -99.64 To 4163. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
50-Sn-125

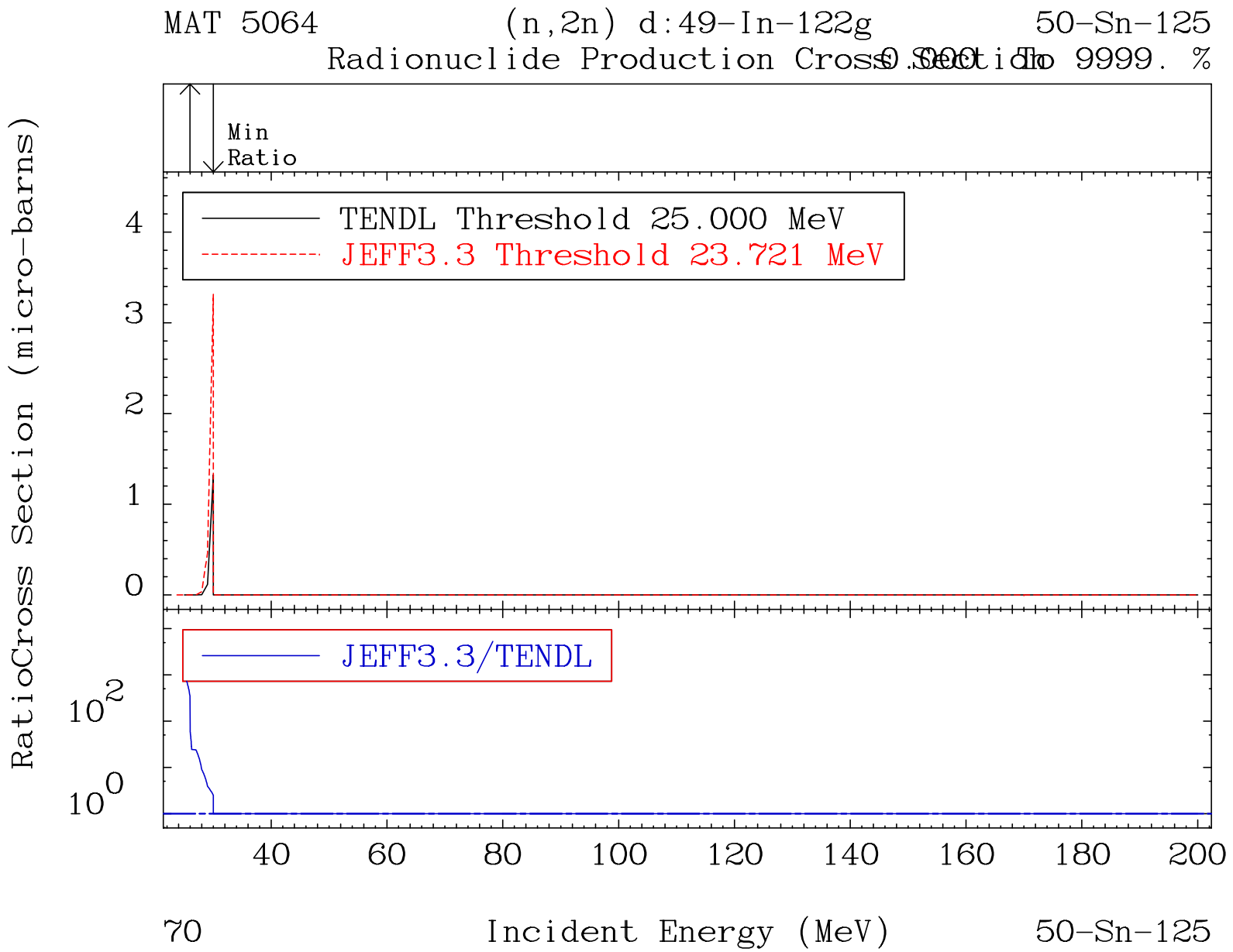

MAT 5064
Dpa elastic (mt2)
Cross Section
50-Sn-125
-92.37 To 147.8 %
Max
Ratio
TENDL Threshold 740.00 eV
JEFF3.3 Threshold 741.36 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
50-Sn-125

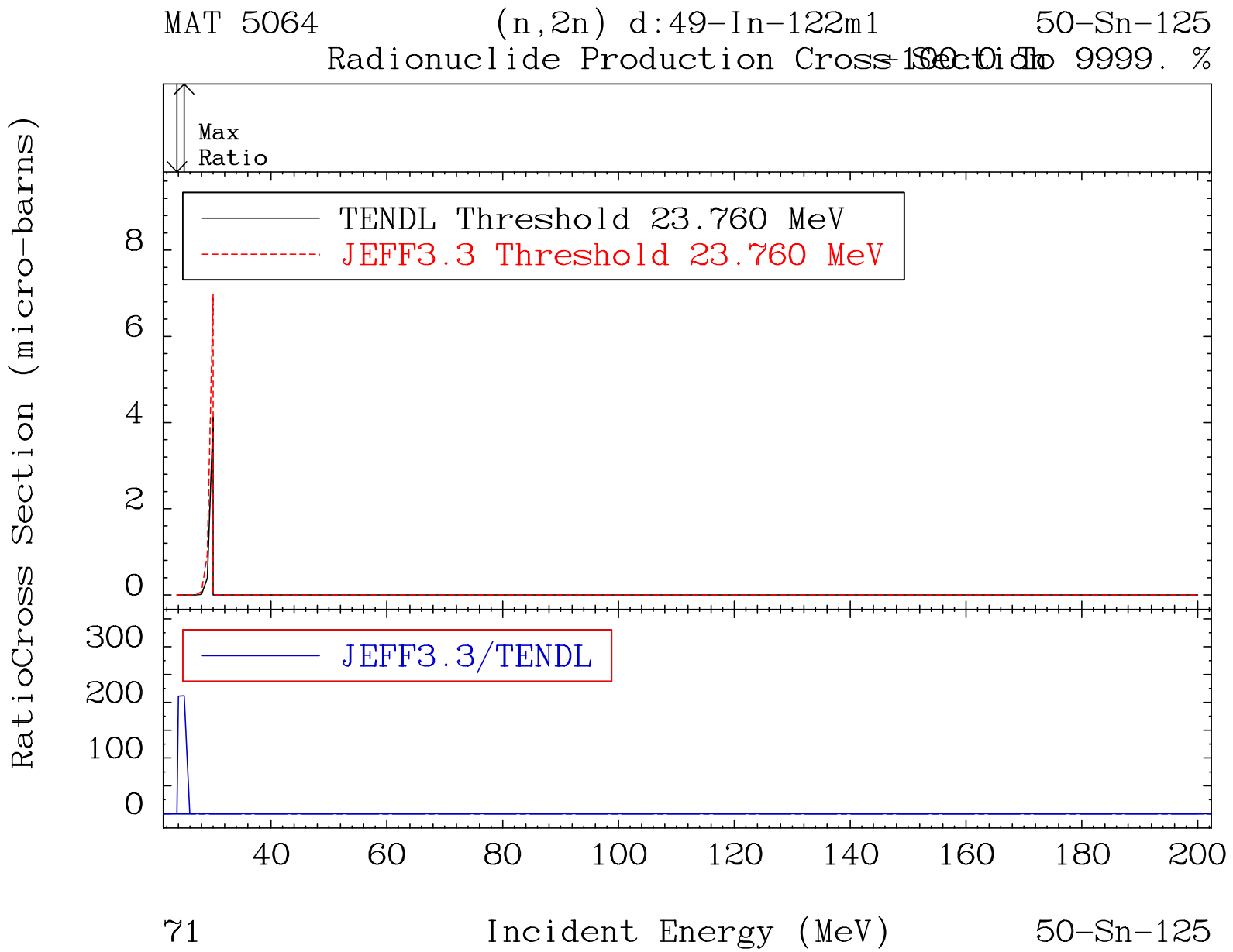

MAT 5064
Dpa inelastic (mt51-91)
50-Sn-125
Cross Section -100.0 To 123.4 %
Max
Ratio
TENDL Threshold 27.722 keV
JEFF3.3 Threshold 27.722 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
50-Sn-125

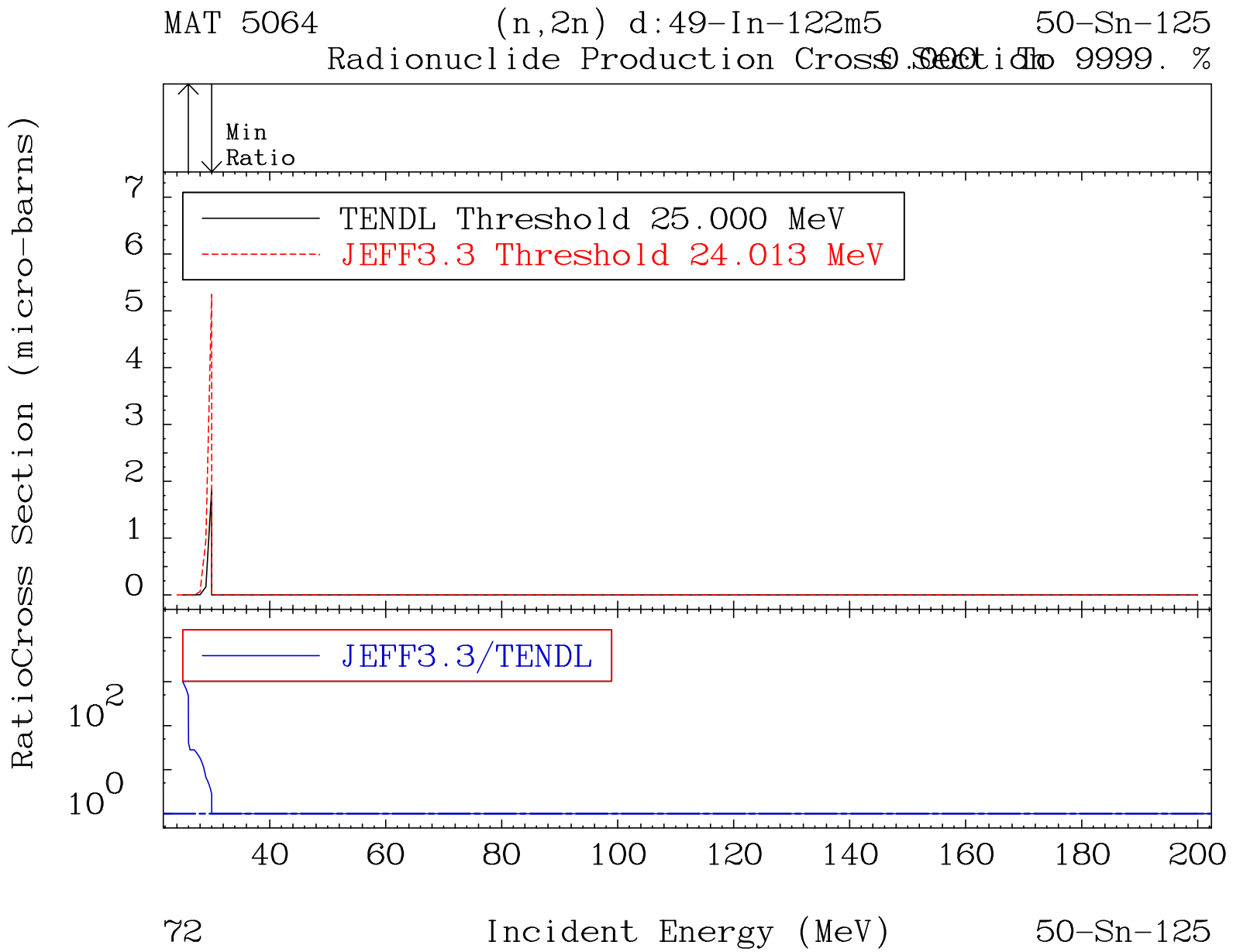

MAT 5064 Dpa disappearance (mt102 -120) 50-Sn-125
Cross Section -99.64 To 9467. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
50-Sn-125

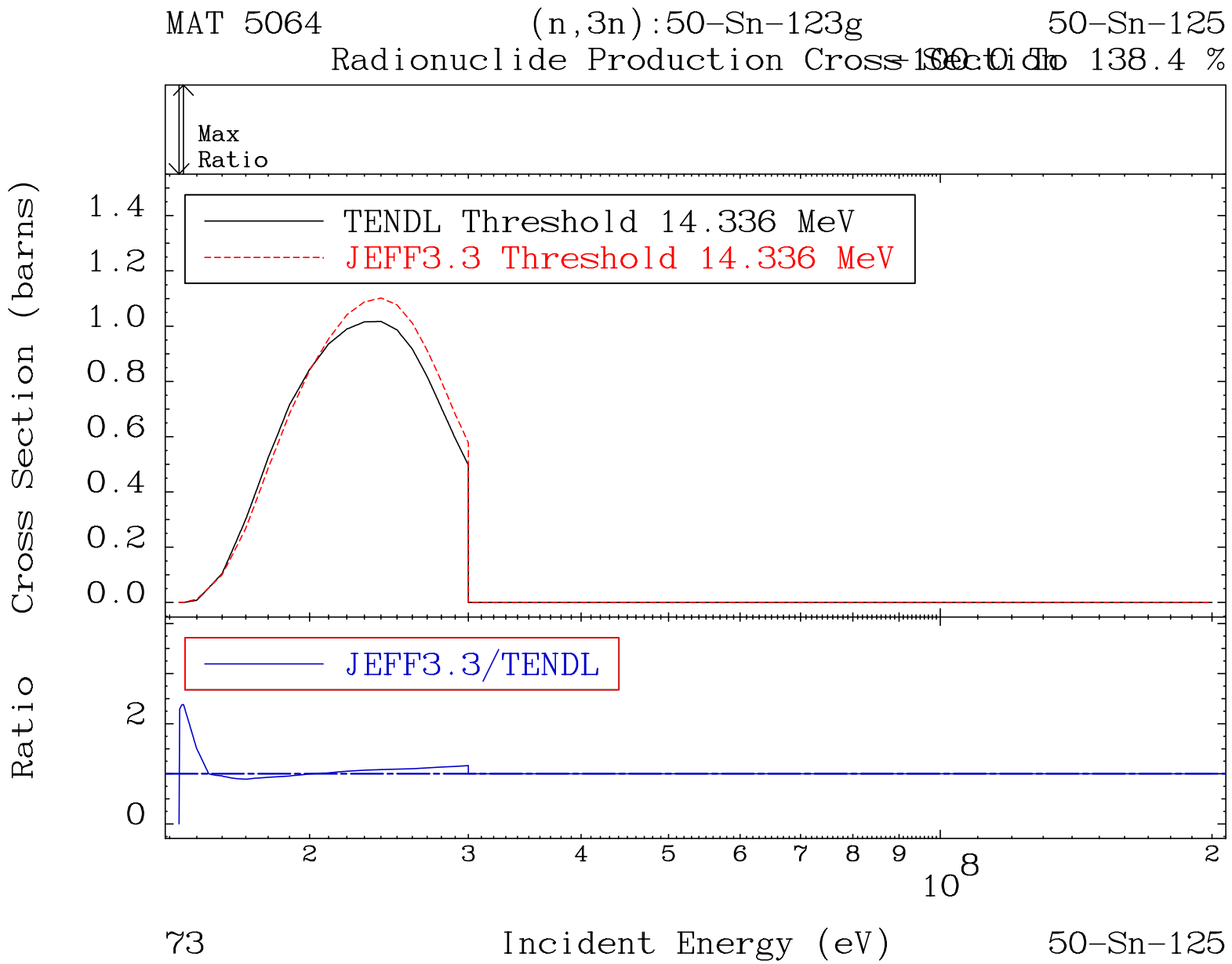

MAT 5064
Inelastic:50-Sn-125g
50-Sn-125
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 600.00 keV
JEFF3.3 Threshold 600.00 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
50-Sn-125

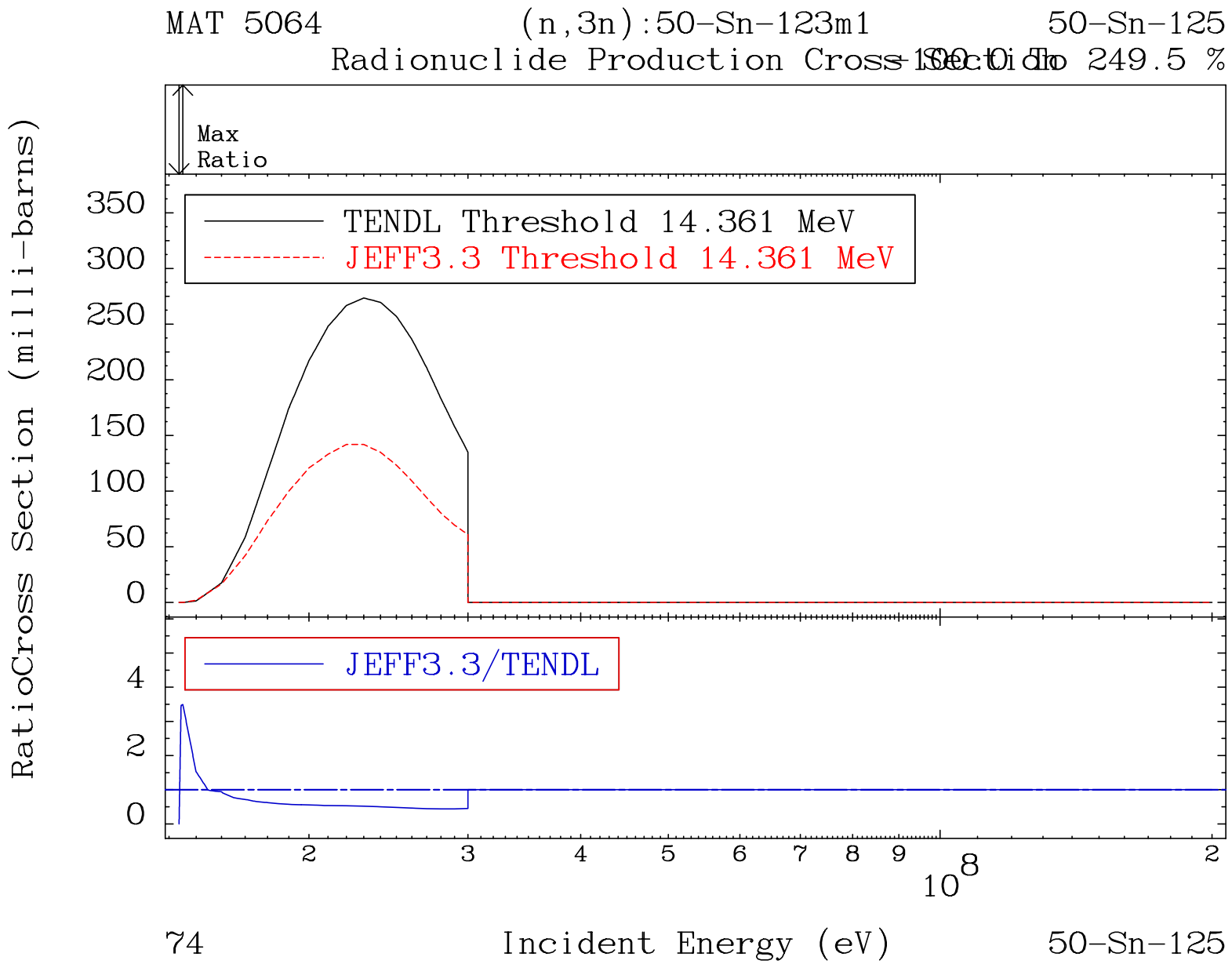

MAT 5064
Inelastic:50-Sn-125m1
50-Sn-125
Radionuclide Production Cross Section To 123.4 %
Max
Ratio
TENDL Threshold 27.722 keV
JEFF3.3 Threshold 27.722 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
3.0
2.0
1.0
0.0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
69
Incident Energy (eV)
50-Sn-125

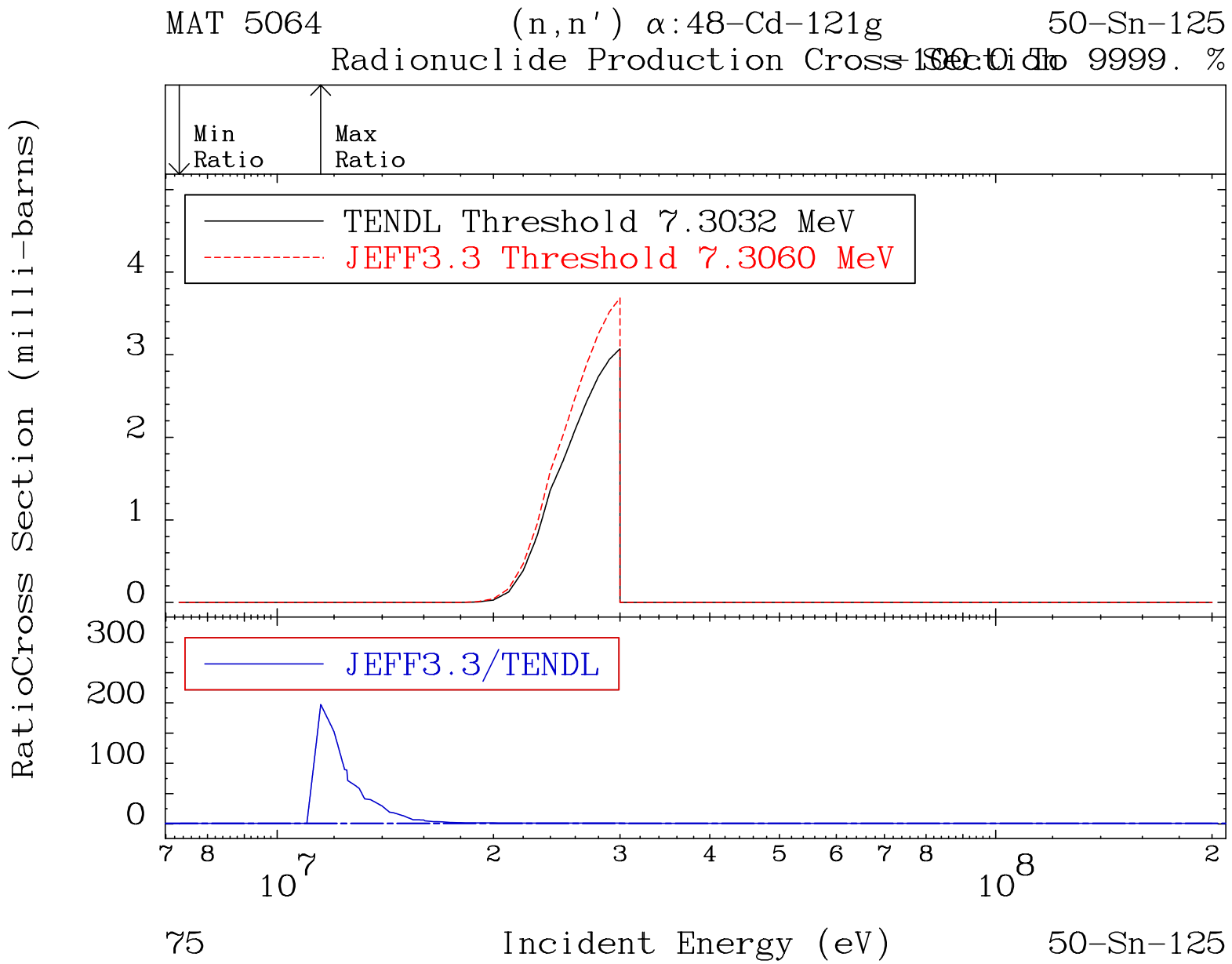

MAT 5064
(n,2n) d:49-In-122g
50-Sn-125
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 23.721 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
0
1
2
3
4
$10^0$
$10^2$
40
60
80
100
120
140
160
180
200
70
Incident Energy (MeV)
50-Sn-125

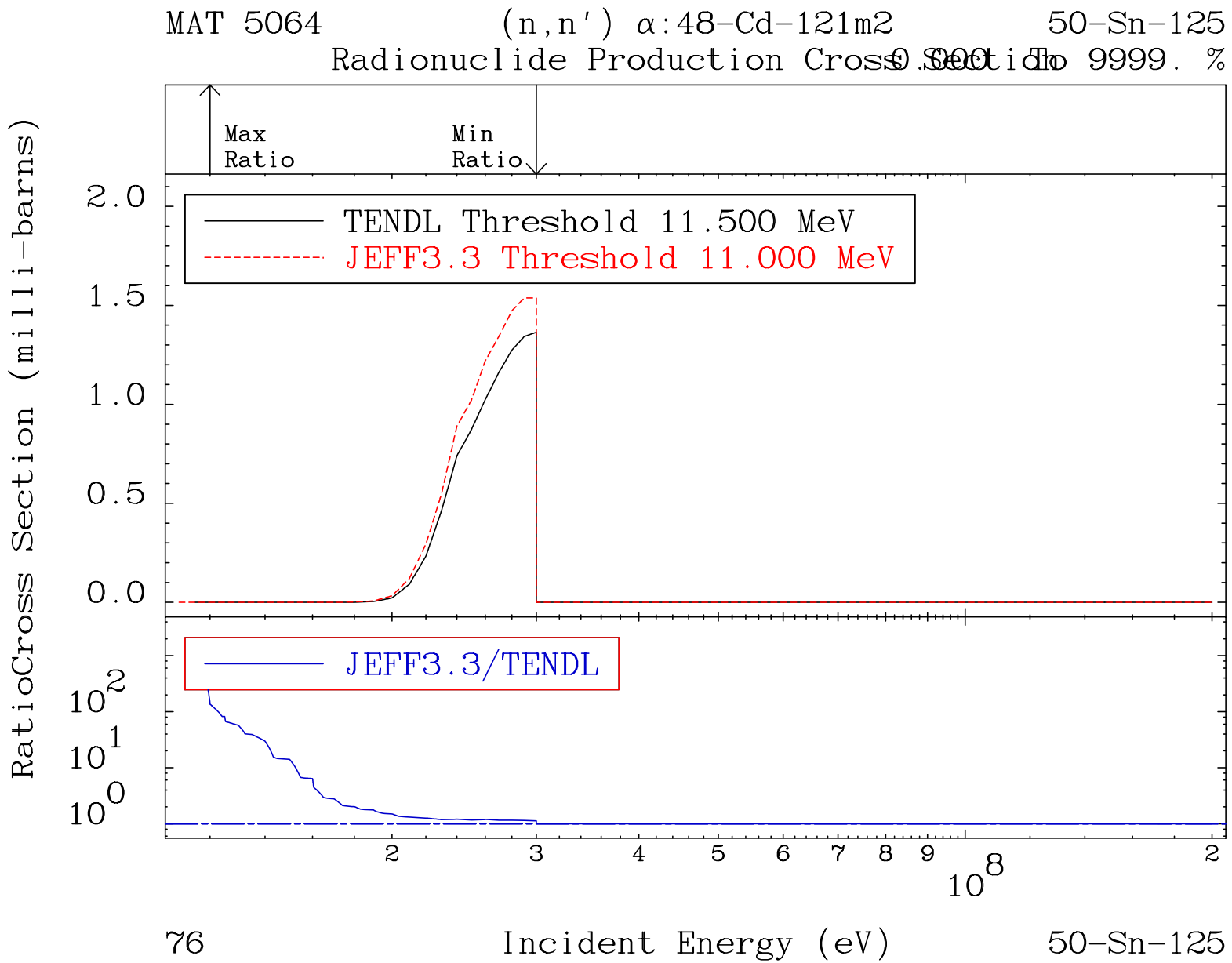

MAT 5064
(n,2n) d:49-In-122m1
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 23.760 MeV
JEFF3.3 Threshold 23.760 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
8
6
4
2
0
300
200
100
0
40
60
80
100
120
140
160
180
200
71
Incident Energy (MeV)
50-Sn-125

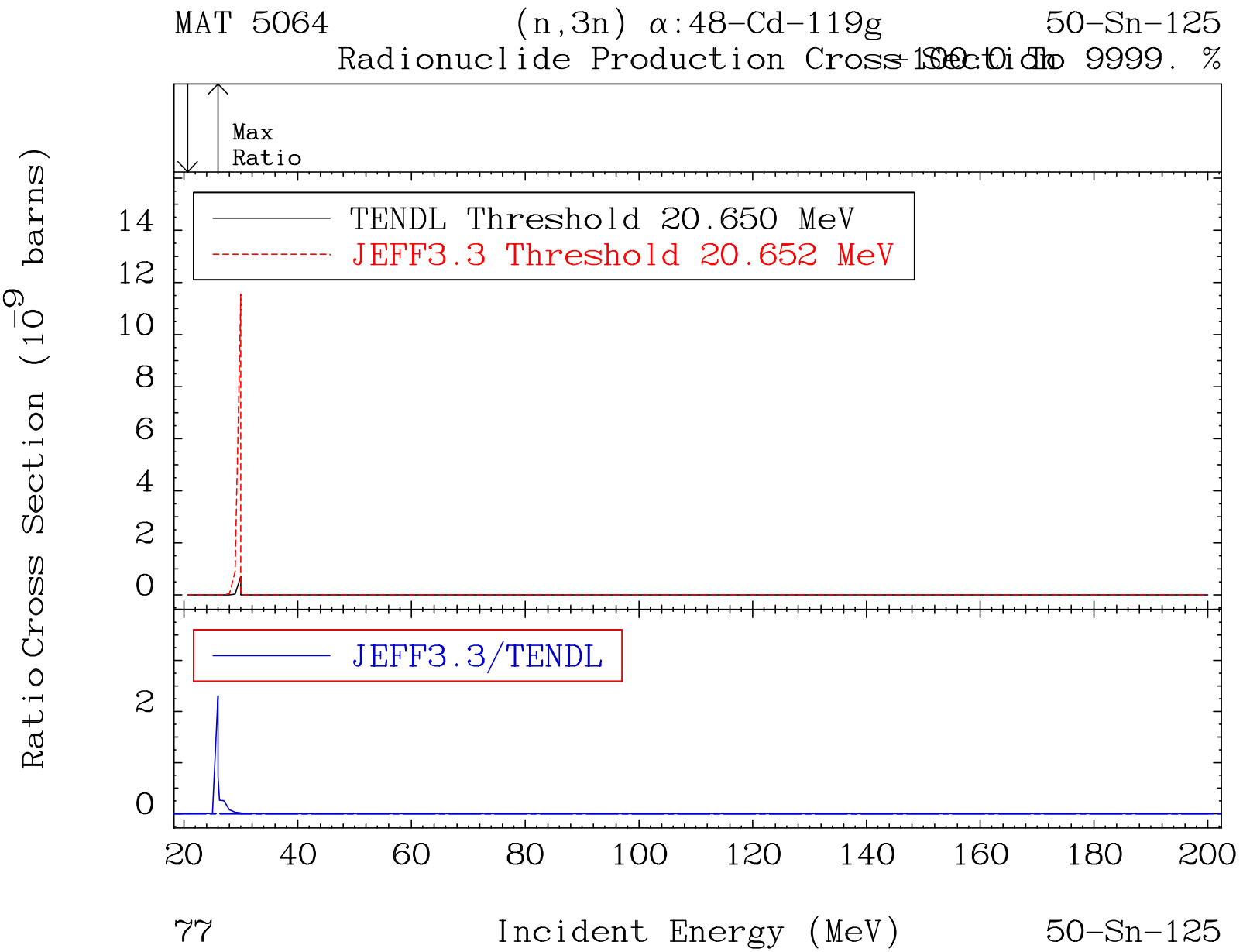

MAT 5064
(n,2n) d:49-In-122m5
50-Sn-125
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 25.000 MeV
JEFF3.3 Threshold 24.013 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
0
1
2
3
4
5
6
7
$10^2$
$10^0$
40
60
80
100
120
140
160
180
200
72
Incident Energy (MeV)
50-Sn-125

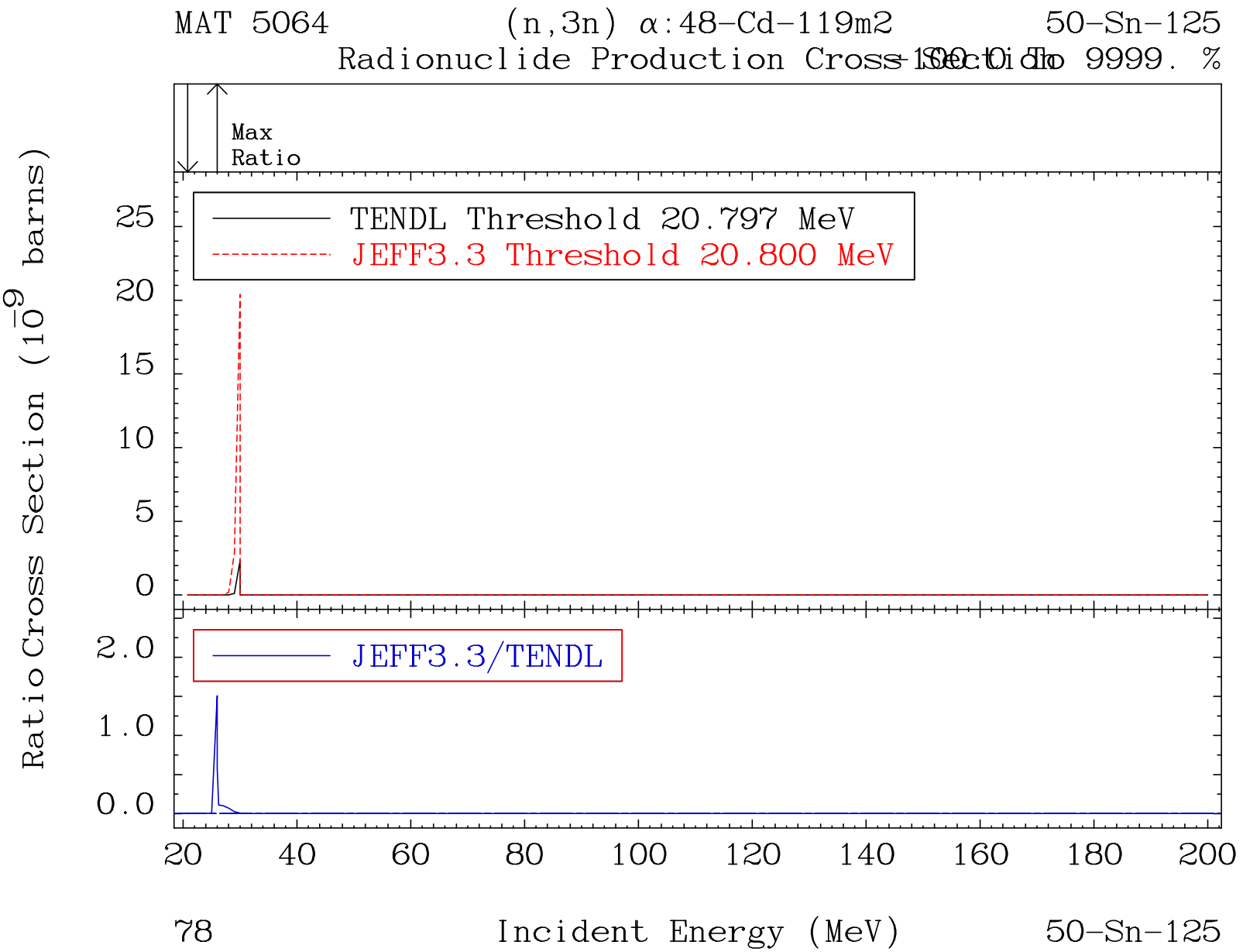

MAT 5064
(n,3n):50-Sn-123g
50-Sn-125
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 14.336 MeV
JEFF3.3 Threshold 14.336 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2
0
2
3
4
5
6
7
8
9
10^8
2
73
Incident Energy (eV)
50-Sn-125

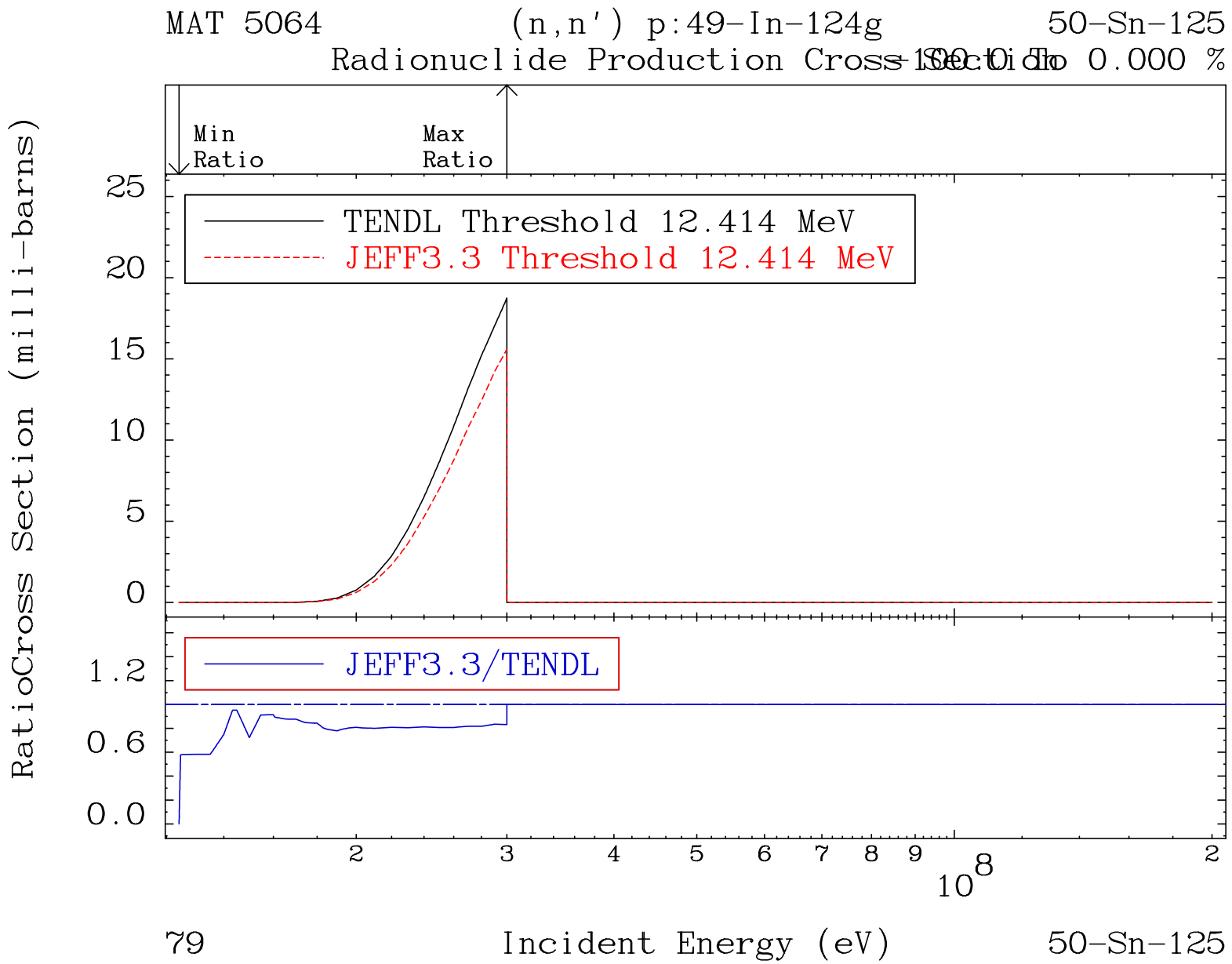

MAT 5064
(n,3n):50-Sn-123m1
50-Sn-125
Radionuclide Production Cross Section To 249.5 %
Max
Ratio
TENDL Threshold 14.361 MeV
JEFF3.3 Threshold 14.361 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
50-Sn-125

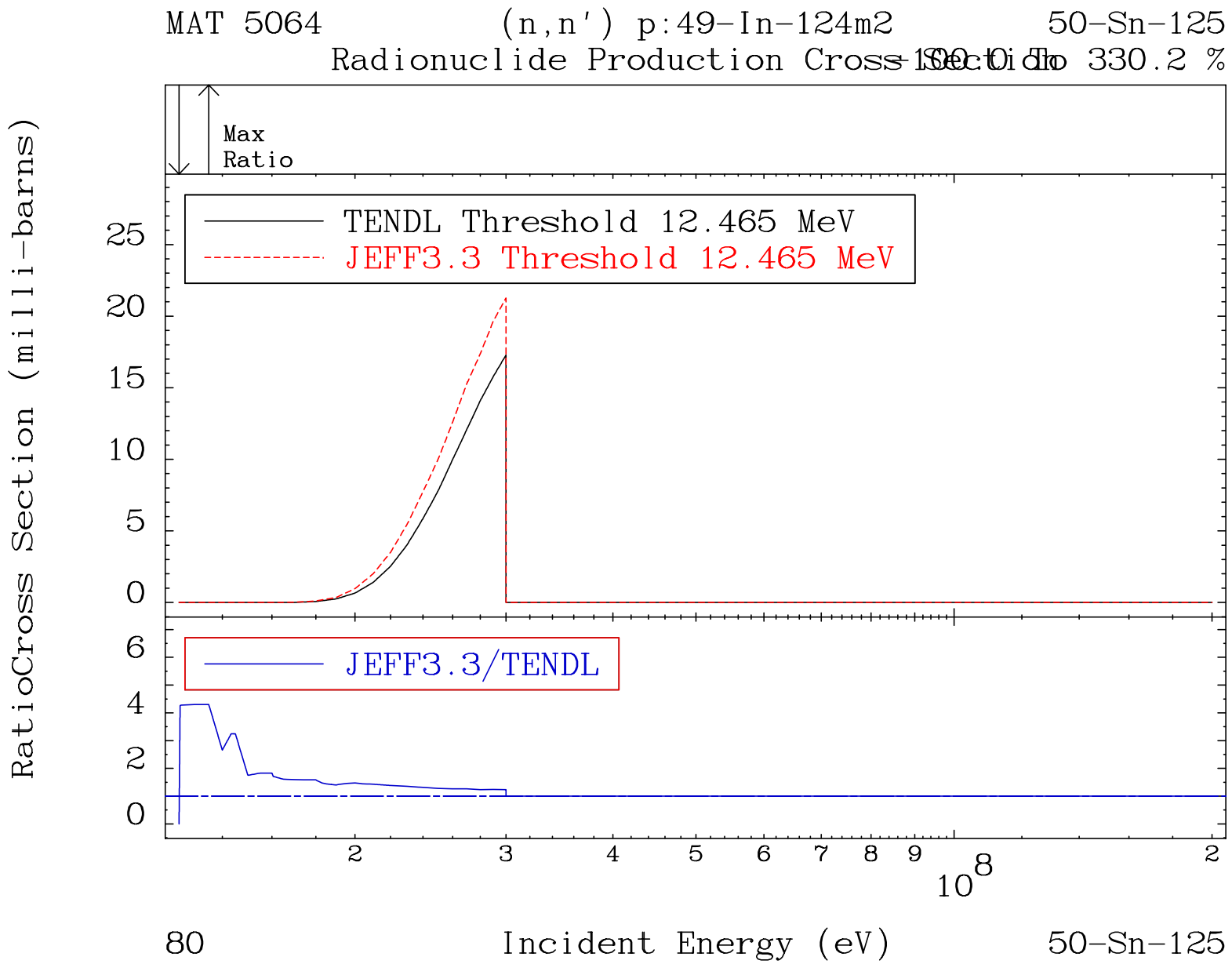

MAT 5064
(n,n') α:48-Cd-121g
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.3032 MeV
JEFF3.3 Threshold 7.3060 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75
50-Sn-125

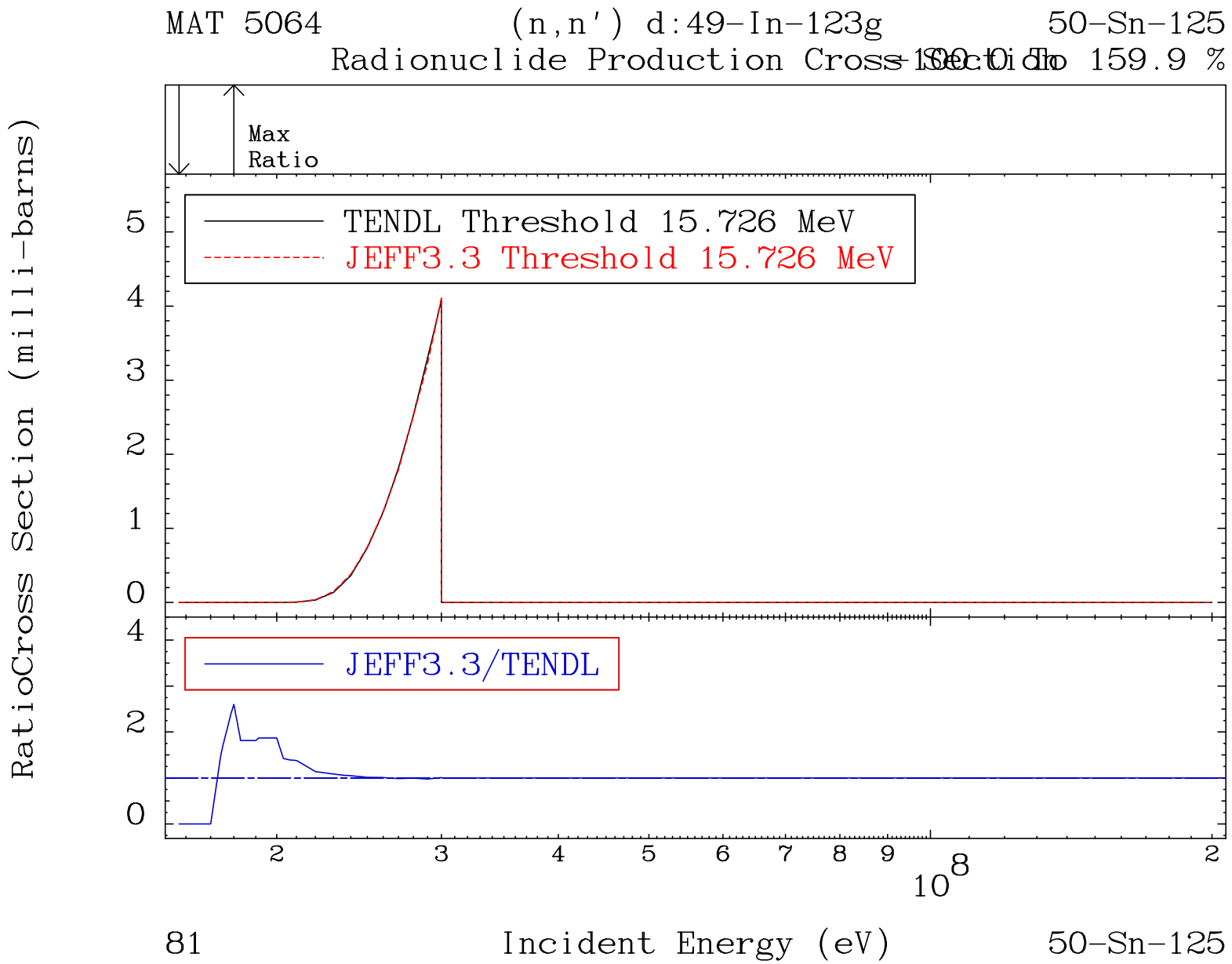

MAT 5064
(n,n') α:48-Cd-121m2
50-Sn-125
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.500 MeV
JEFF3.3 Threshold 11.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
50-Sn-125

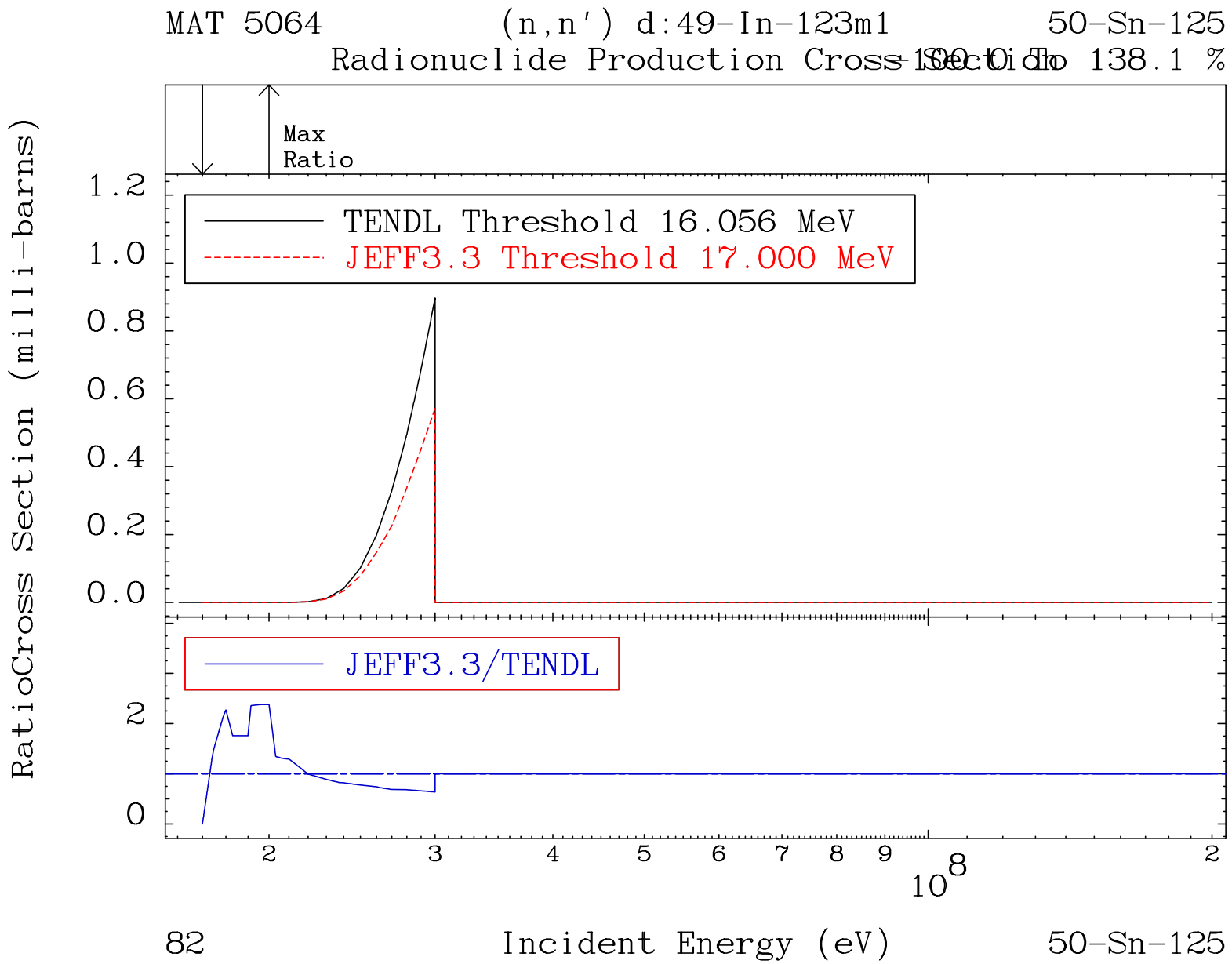

MAT 5064
(n,3n) α:48-Cd-119g
50-Sn-125
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 20.650 MeV
JEFF3.3 Threshold 20.652 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
0
2
4
6
8
10
12
14
20
40
60
80
100
120
140
160
180
200
77
Incident Energy (MeV)
50-Sn-125

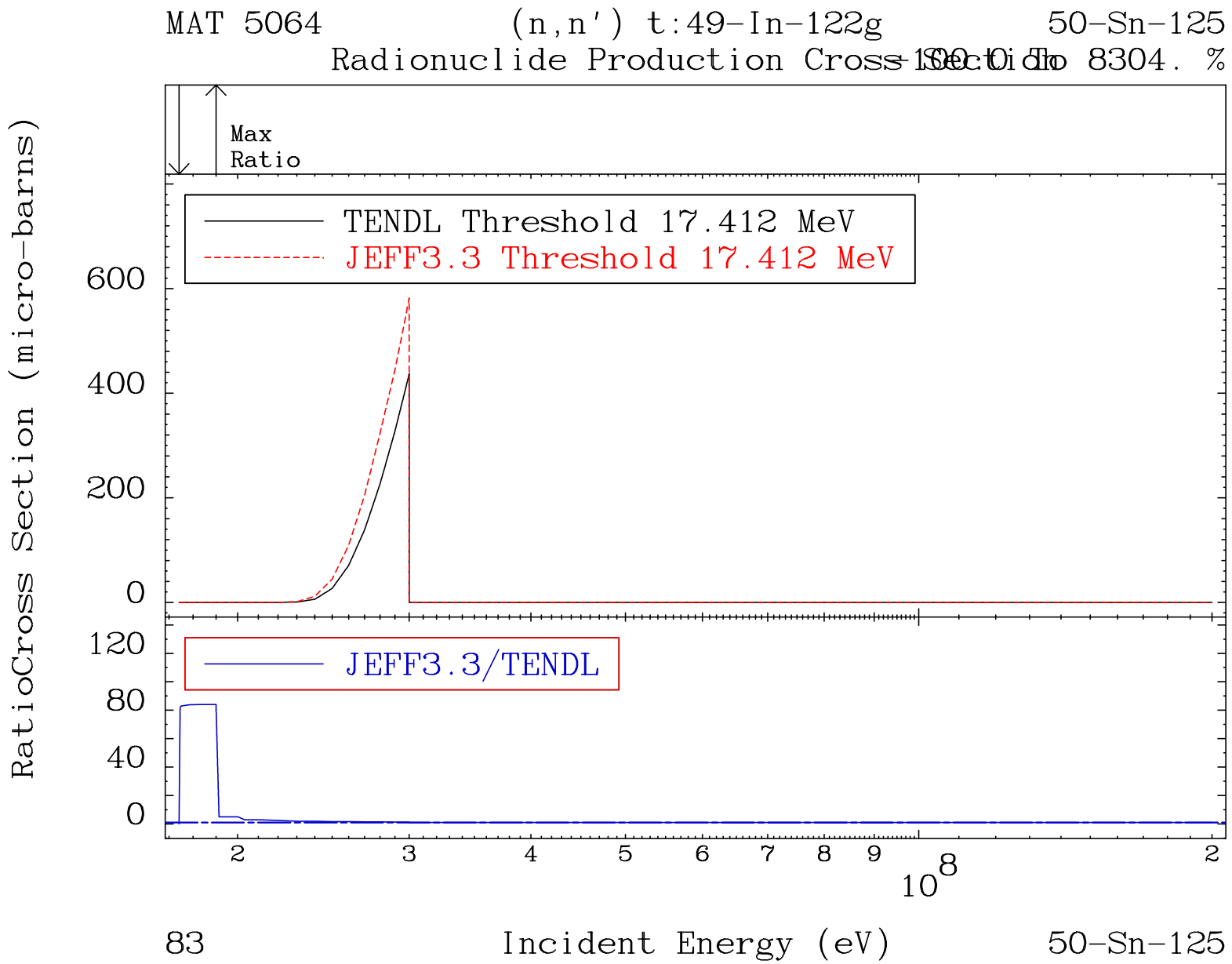

MAT 5064
(n,3n) α:48-Cd-119m2
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 20.797 MeV
JEFF3.3 Threshold 20.800 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
25
20
15
10
5
0
2.0
1.0
0.0
20
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
50-Sn-125

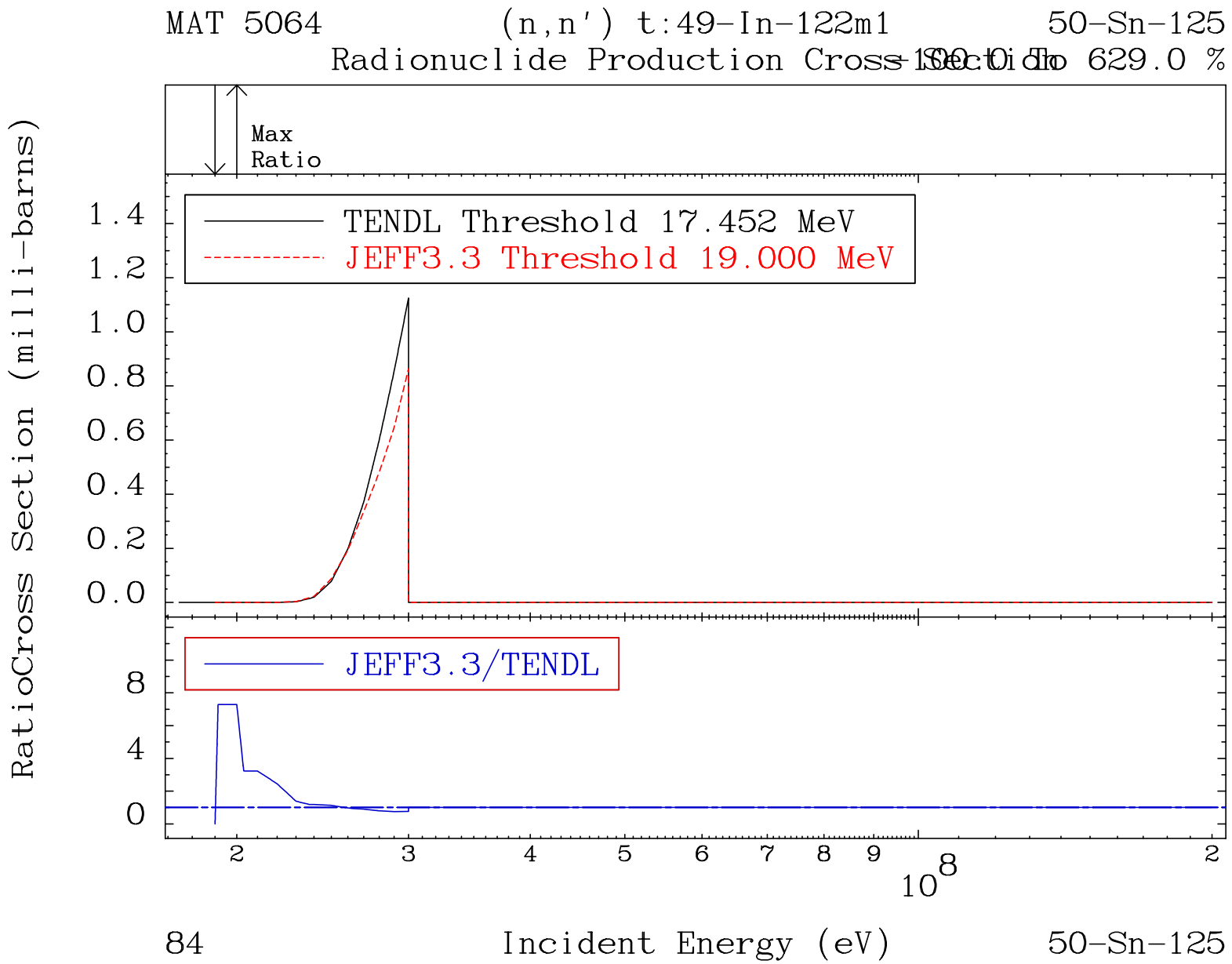

MAT 5064
(n,n') p:49-In-124g
50-Sn-125
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 12.414 MeV
JEFF3.3 Threshold 12.414 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
50-Sn-125

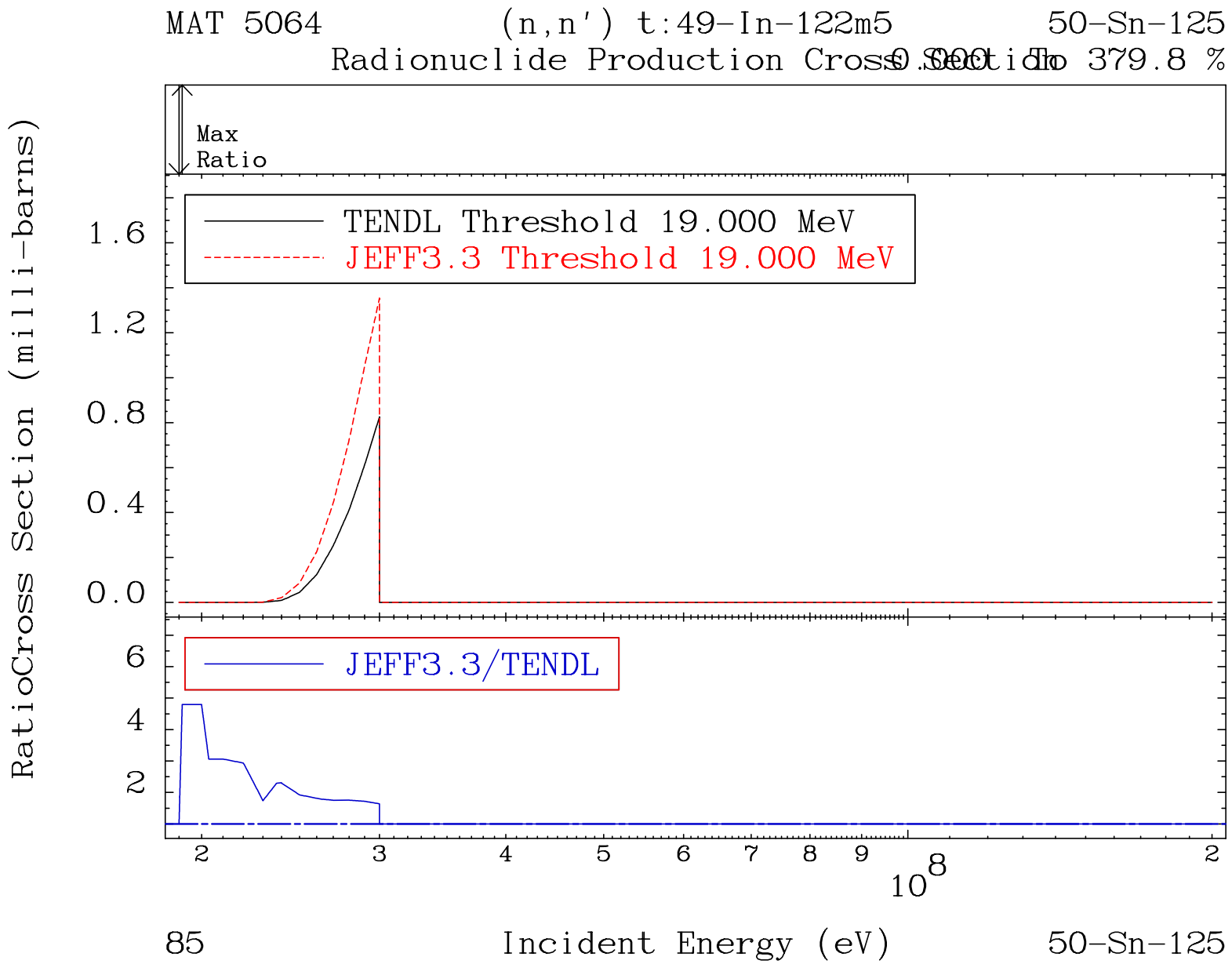

MAT 5064
(n,n') p:49-In-124m2
50-Sn-125
Radionuclide Production Cross Section To 330.2 %
Max
Ratio
TENDL Threshold 12.465 MeV
JEFF3.3 Threshold 12.465 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
50-Sn-125

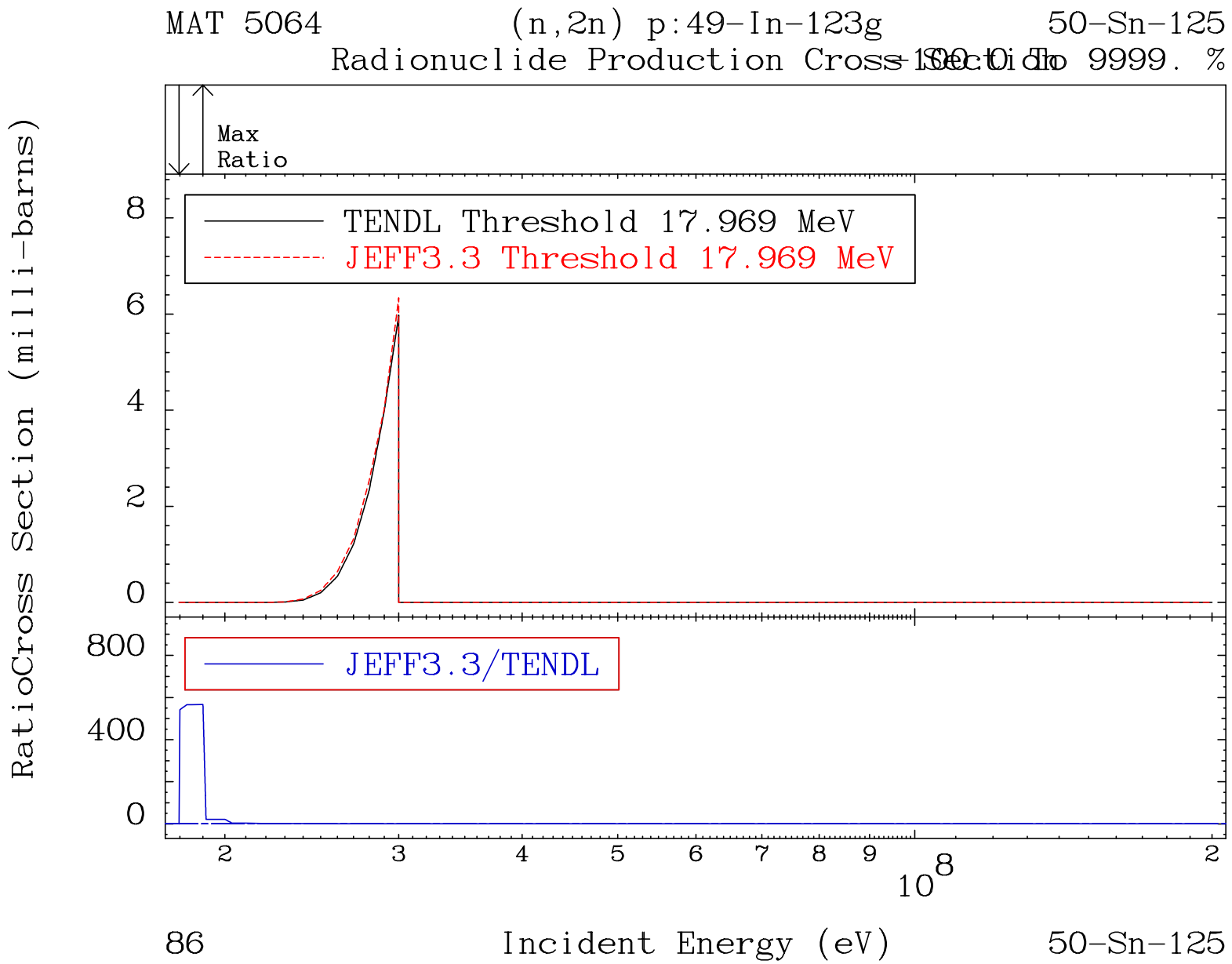

MAT 5064
(n,n') d:49-In-123g
50-Sn-125
Radionuclide Production Cross Section To 159.9 %
Max
Ratio
TENDL Threshold 15.726 MeV
JEFF3.3 Threshold 15.726 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
0
2
4
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
50-Sn-125

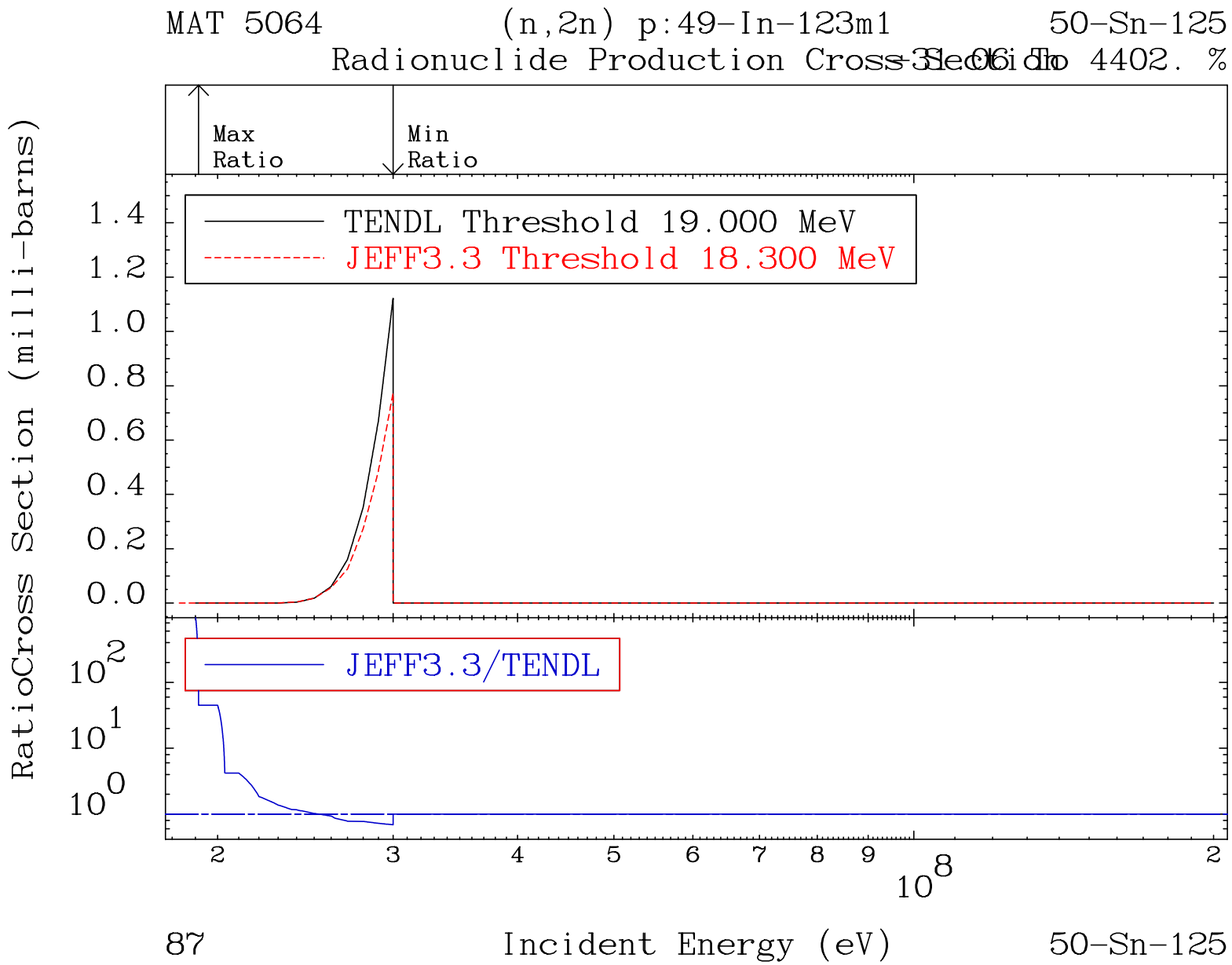

MAT 5064
(n,n') d:49-In-123m1
50-Sn-125
Radionuclide Production Cross Section To 138.1 %
Max
Ratio
TENDL Threshold 16.056 MeV
JEFF3.3 Threshold 17.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
50-Sn-125

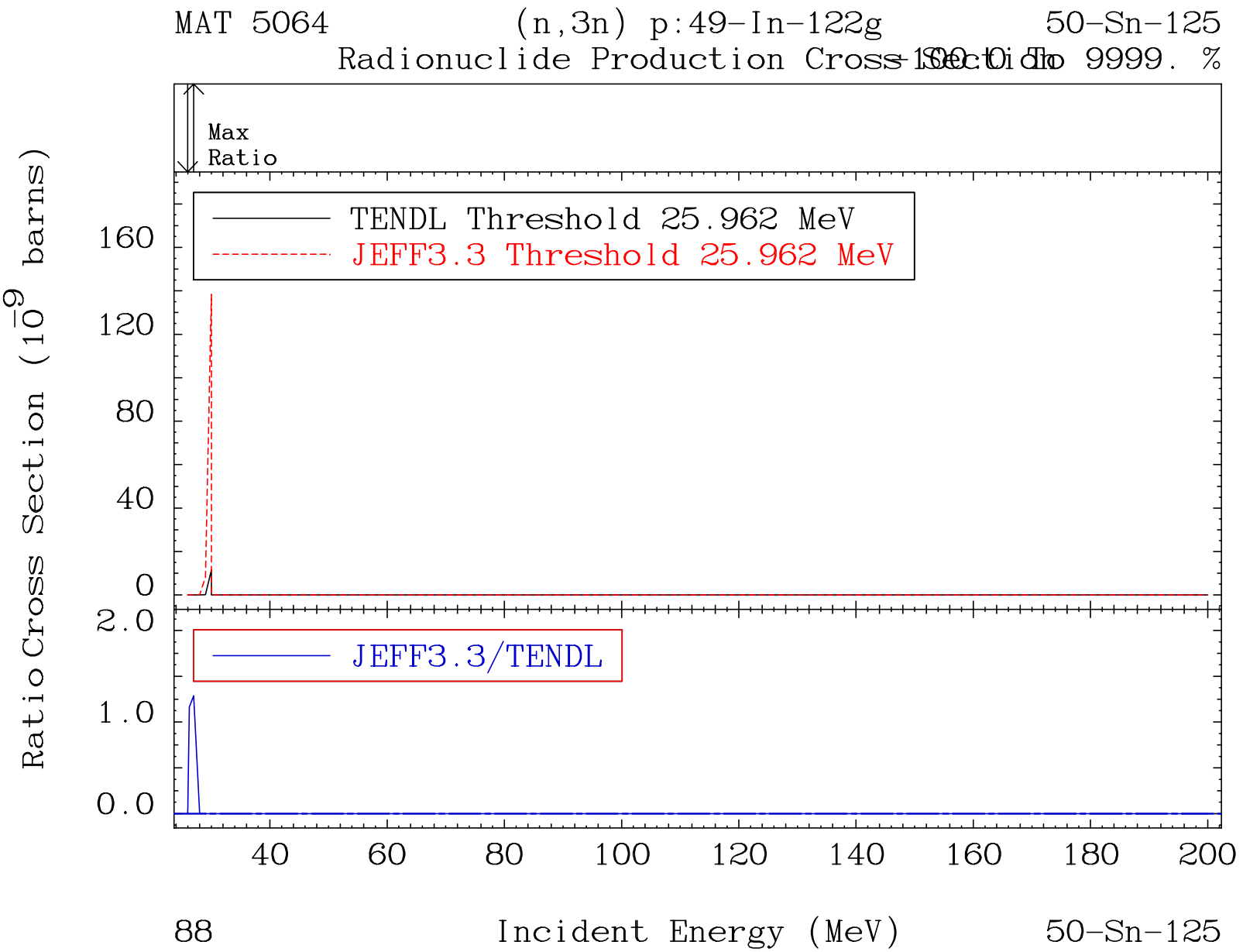

MAT 5064
(n,n') t:49-In-122g
50-Sn-125
Radionuclide Production Cross Section To 8304. %
Max
Ratio
TENDL Threshold 17.412 MeV
JEFF3.3 Threshold 17.412 MeV
600
400
200
0
JEFF3.3/TENDL
120
80
40
0
RatioCross Section (micro-barns)
2
3
4
5
6
7
8
9
2
10^8
83
Incident Energy (eV)
50-Sn-125

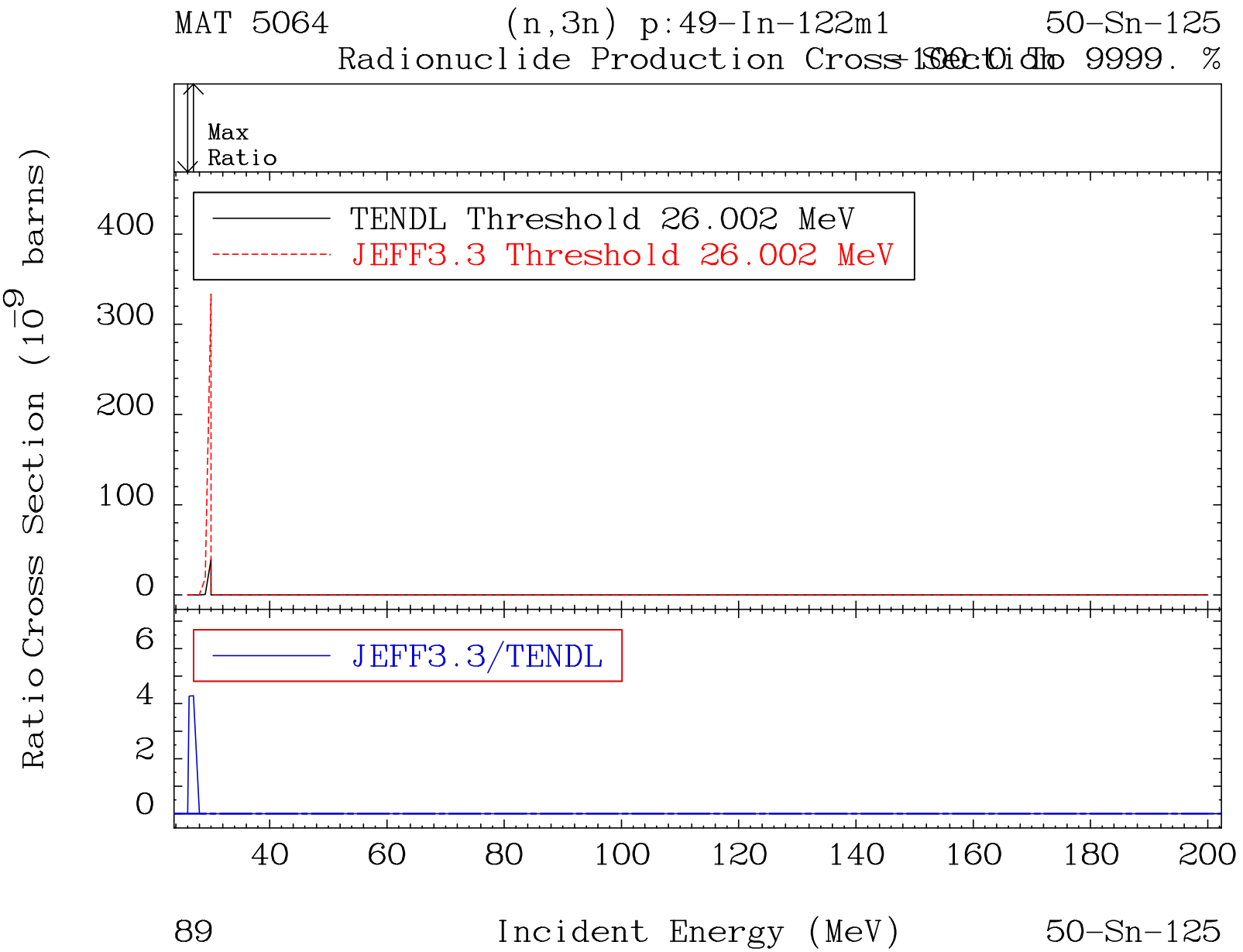

MAT 5064
(n,n') t:49-In-122m1
50-Sn-125
Radionuclide Production Cross Section To 629.0 %
Max
Ratio
TENDL Threshold 17.452 MeV
JEFF3.3 Threshold 19.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
50-Sn-125

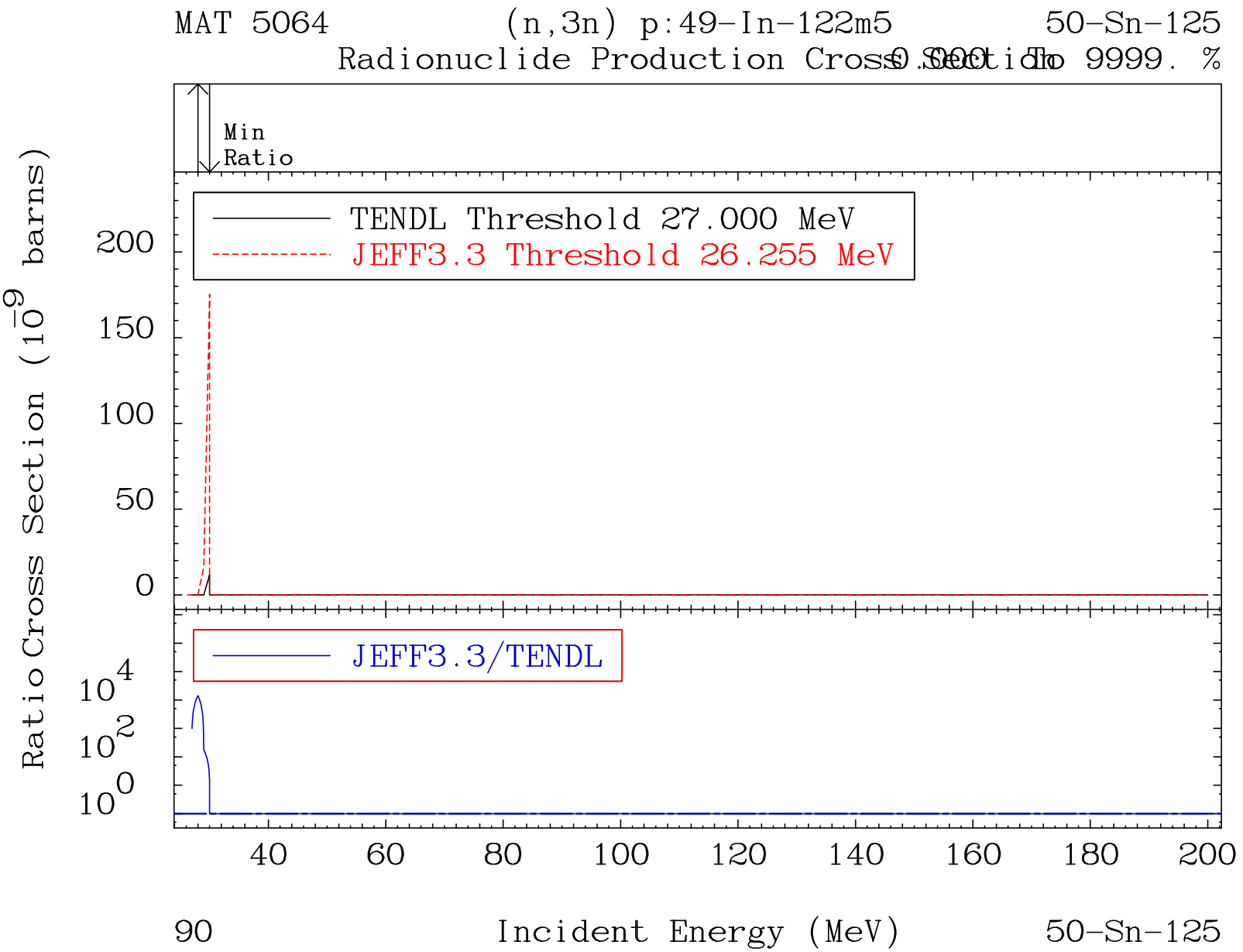

MAT 5064
(n,n') t:49-In-122m5
50-Sn-125
Radionuclide Production Cross Section
0.000 To 379.8 %
Max
Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
6
4
2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
50-Sn-125

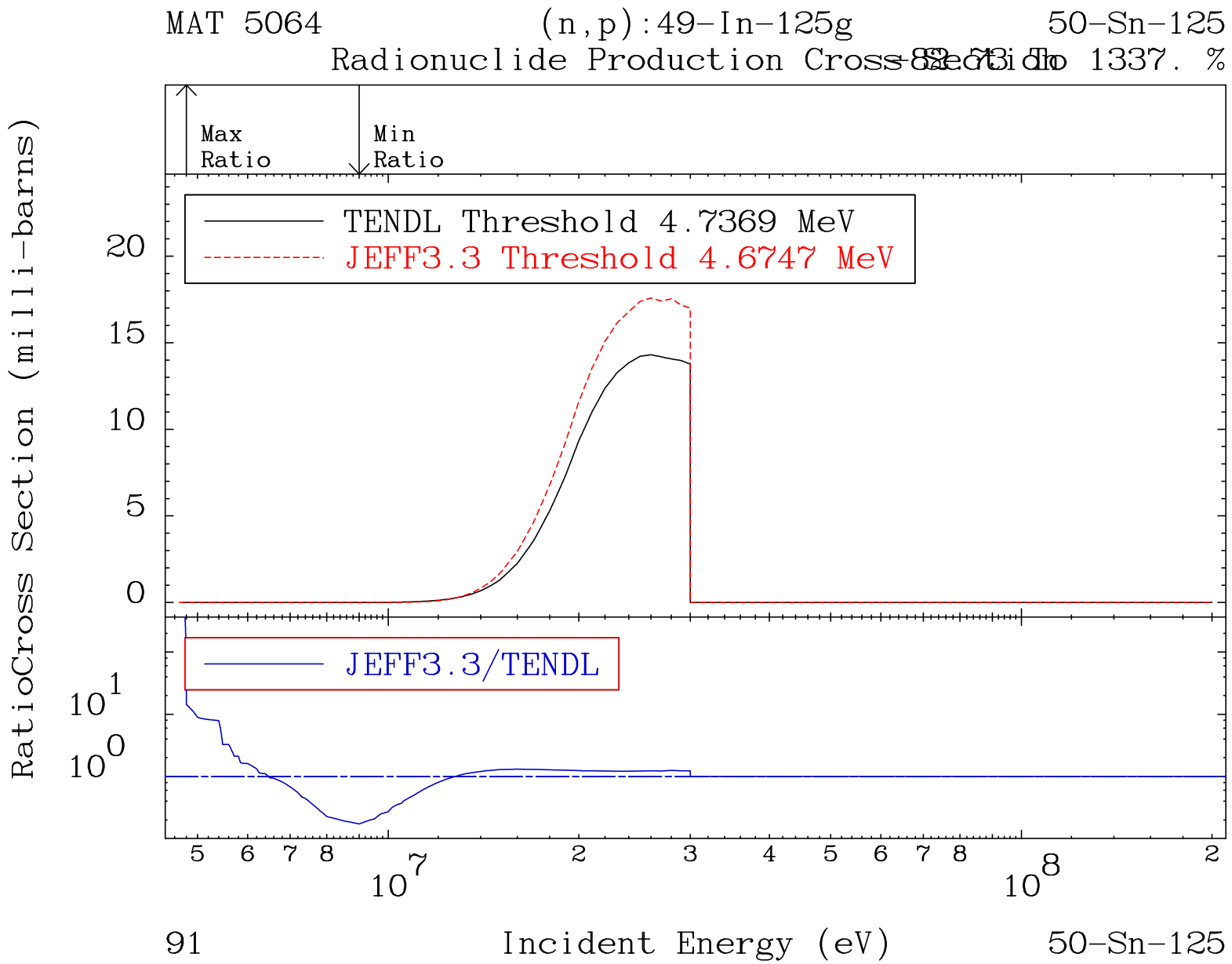

MAT 5064
(n,2n) p:49-In-123g
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 17.969 MeV
JEFF3.3 Threshold 17.969 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
800
400
0
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
50-Sn-125

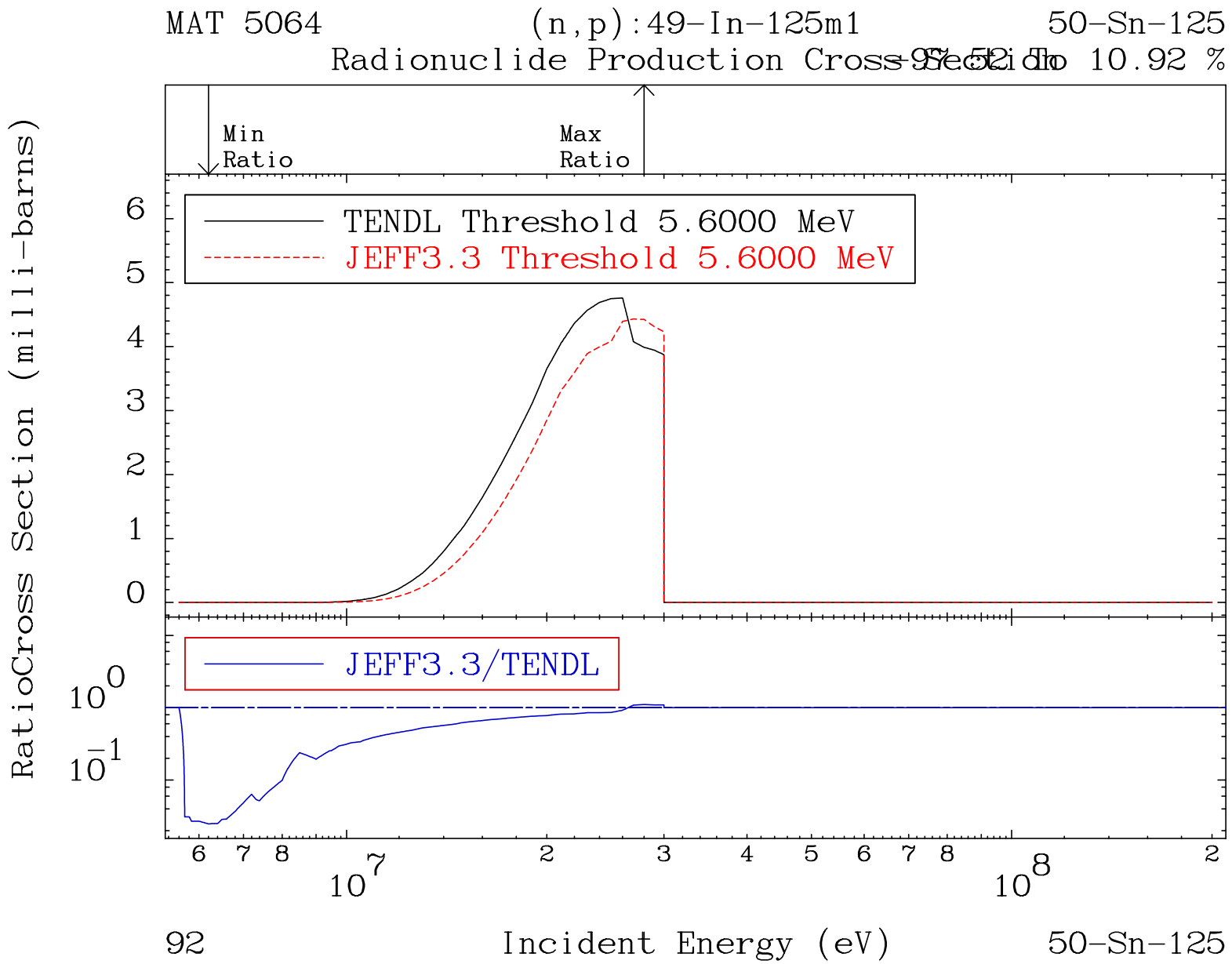

MAT 5064
(n,2n) p:49-In-123m1
50-Sn-125
Radionuclide Production Cross-Section To 4402. %
Max Ratio
Min Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 18.300 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
$10^2$
$10^1$
$10^0$
2
3
4
5
6
7
8
9
$10^8$
2
87
Incident Energy (eV)
50-Sn-125

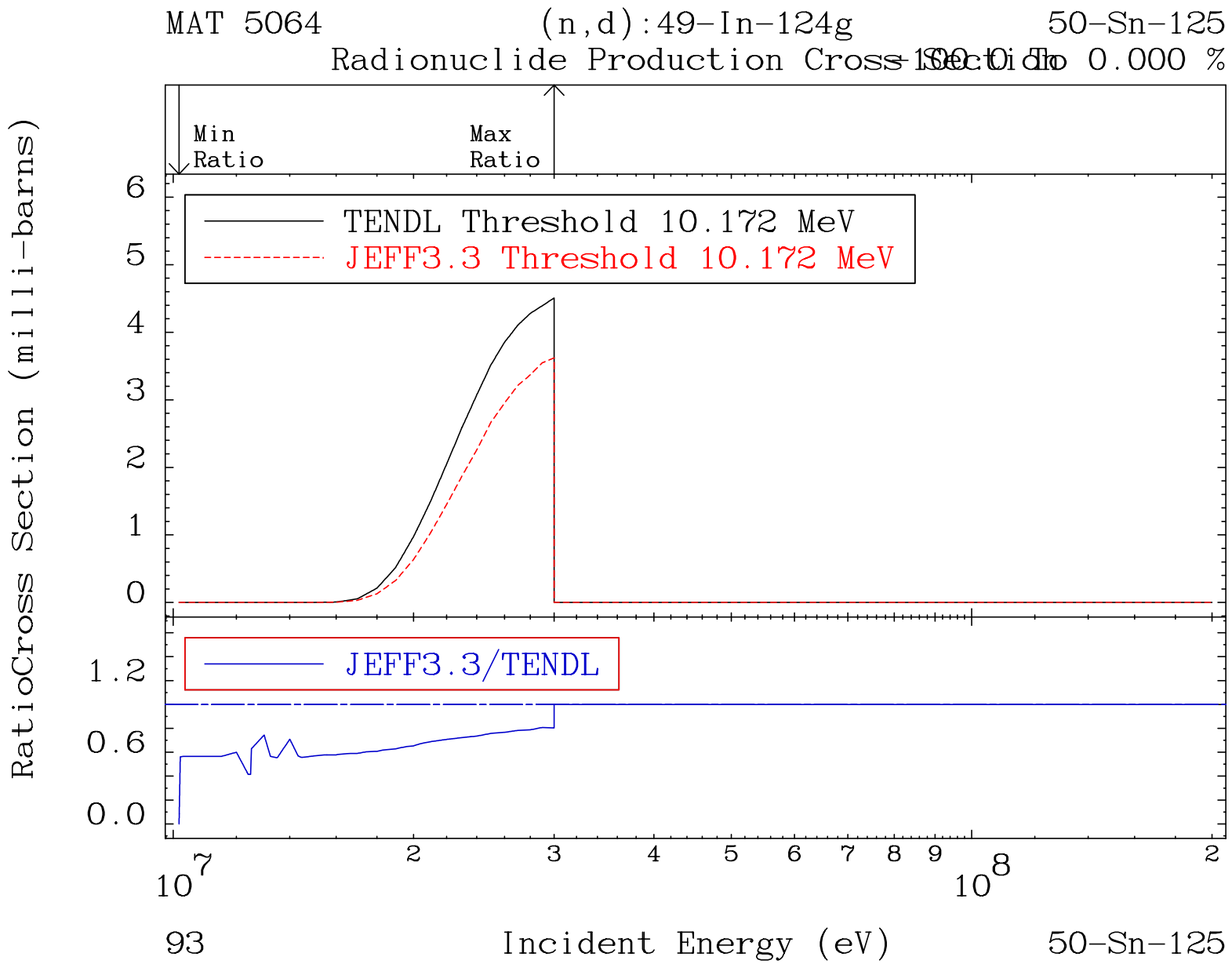

MAT 5064
(n,3n) p:49-In-122g
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 25.962 MeV
JEFF3.3 Threshold 25.962 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
160
120
80
40
0
2.0
1.0
0.0
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
50-Sn-125

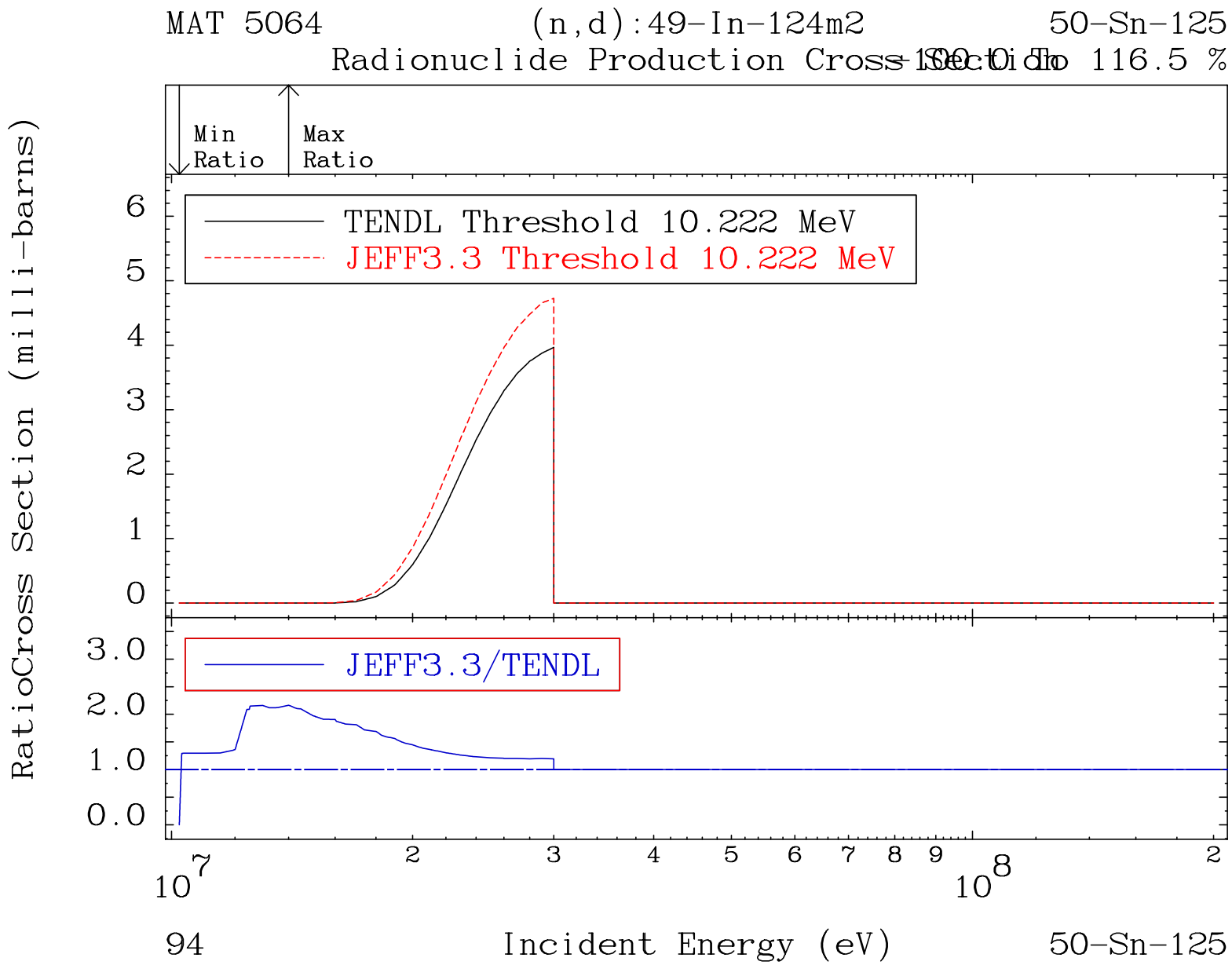

MAT 5064
(n,3n) p:49-In-122m1
50-Sn-125
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 26.002 MeV
JEFF3.3 Threshold 26.002 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
400
300
200
100
0
6
4
2
0
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
50-Sn-125

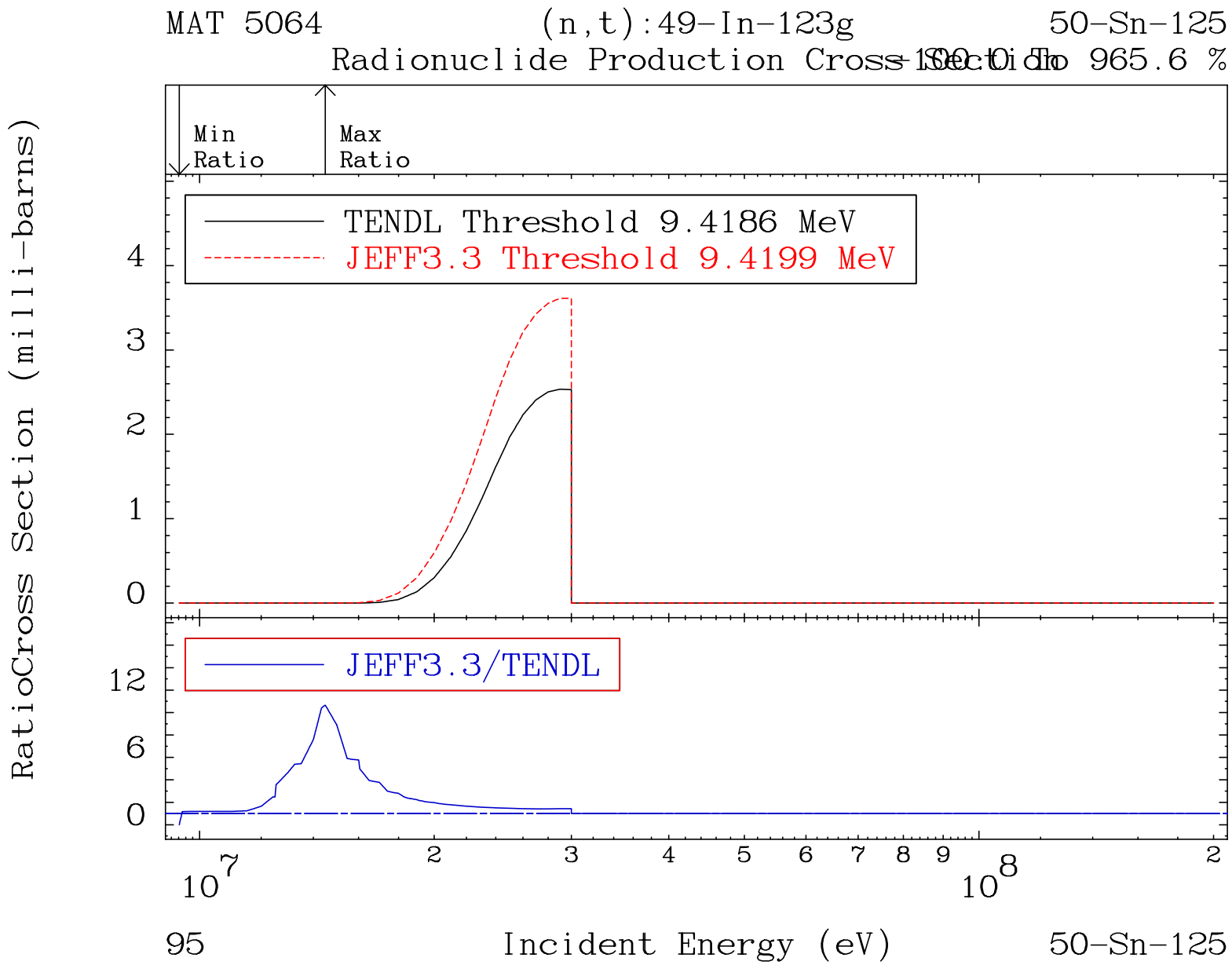

MAT 5064
(n,3n) p:49-In-122m5
50-Sn-125
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 27.000 MeV
JEFF3.3 Threshold 26.255 MeV
JEFF3.3/TENDL
Ratio Cross Section ($10^{-9}$ barns)
200
150
100
50
0
$10^4$
$10^2$
$10^0$
40
60
80
100
120
140
160
180
200
90
Incident Energy (MeV)
50-Sn-125

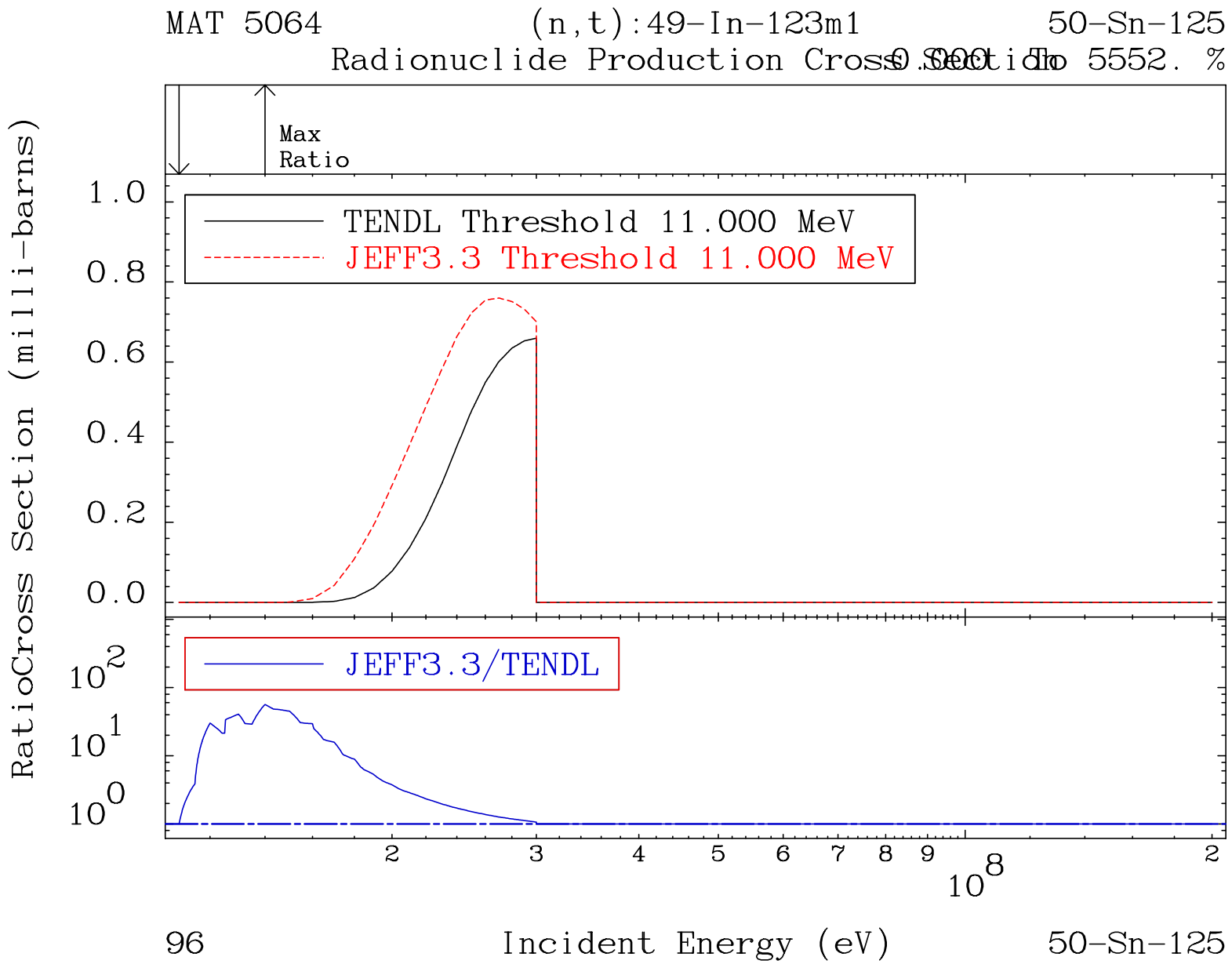

MAT 5064
(n,p):49-In-125g
50-Sn-125
Radionuclide Production Cross Section To 1337. %
Max Ratio
Min Ratio
TENDL Threshold 4.7369 MeV
JEFF3.3 Threshold 4.6747 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
91
50-Sn-125

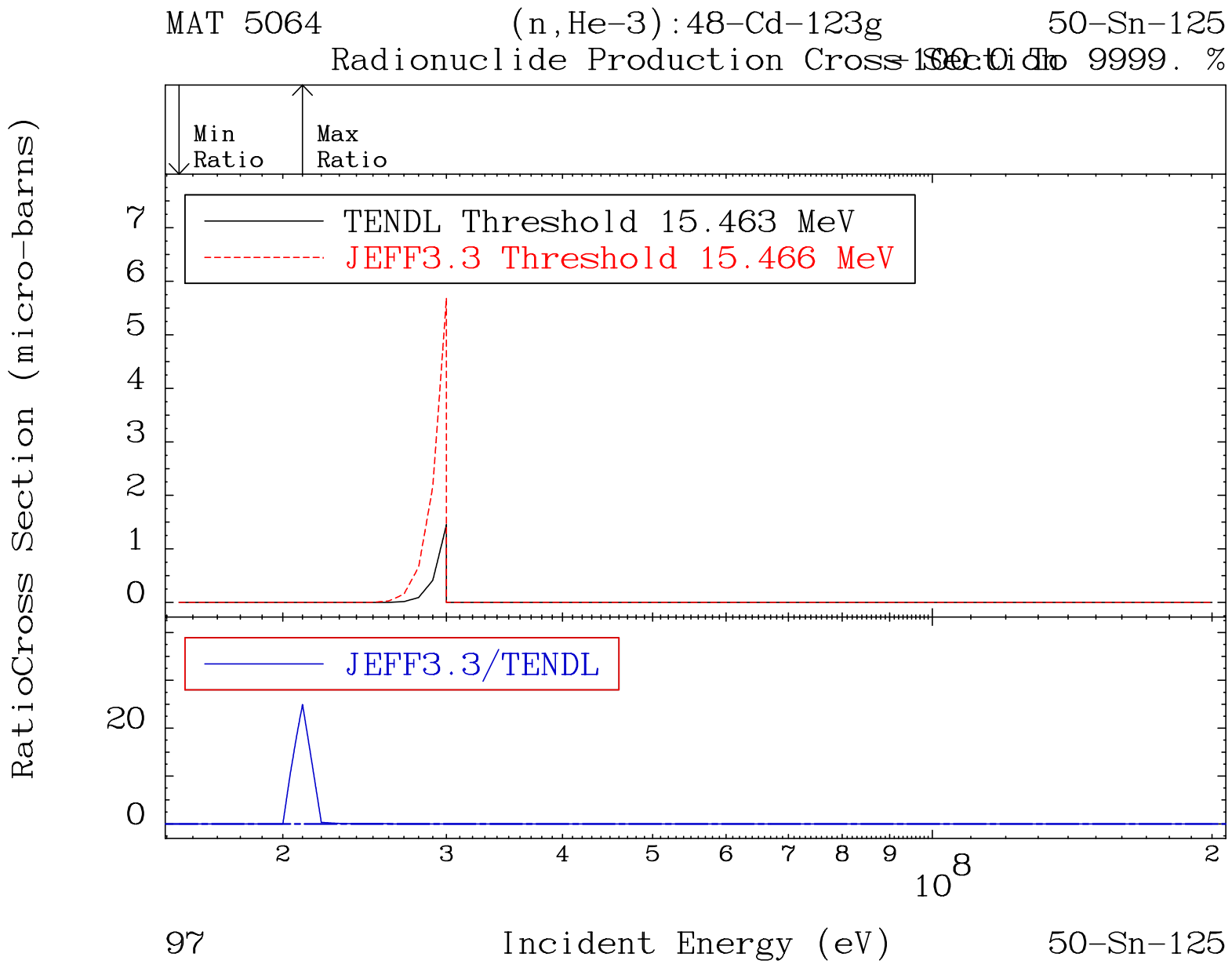

MAT 5064
(n,p):49-In-125m1
50-Sn-125
Radionuclide Production Cross Section
9.52 to 10.92 %
Min Ratio
Max Ratio
TENDL Threshold 5.6000 MeV
JEFF3.3 Threshold 5.6000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
92
50-Sn-125


MAT 5064
(n,d):49-In-124g
50-Sn-125
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 10.172 MeV
JEFF3.3 Threshold 10.172 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
93
50-Sn-125


MAT 5064
(n,d):49-In-124m2
50-Sn-125
Radionuclide Production Cross Section To 116.5 %
Min Ratio
Max Ratio
TENDL Threshold 10.222 MeV
JEFF3.3 Threshold 10.222 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
94
50-Sn-125


MAT 5064
(n,t):49-In-123g
50-Sn-125
Radionuclide Production Cross Section To 965.6 %
Min Ratio
Max Ratio
TENDL Threshold 9.4186 MeV
JEFF3.3 Threshold 9.4199 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
95
50-Sn-125


MAT 5064
(n,t):49-In-123m1
50-Sn-125
Radionuclide Production Cross Section
0.000 To 5552. %
Max
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
TENDL Threshold 11.000 MeV
JEFF3.3 Threshold 11.000 MeV
JEFF3.3/TENDL
$10^2$
$10^1$
$10^0$
2
3
4
5
6
7
8
9
$10^8$
2
RatioCross Section (milli-barns)
96
Incident Energy (eV)
50-Sn-125


MAT 5064
(n,He-3):48-Cd-123g
50-Sn-125
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 15.463 MeV
JEFF3.3 Threshold 15.466 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
97
50-Sn-125