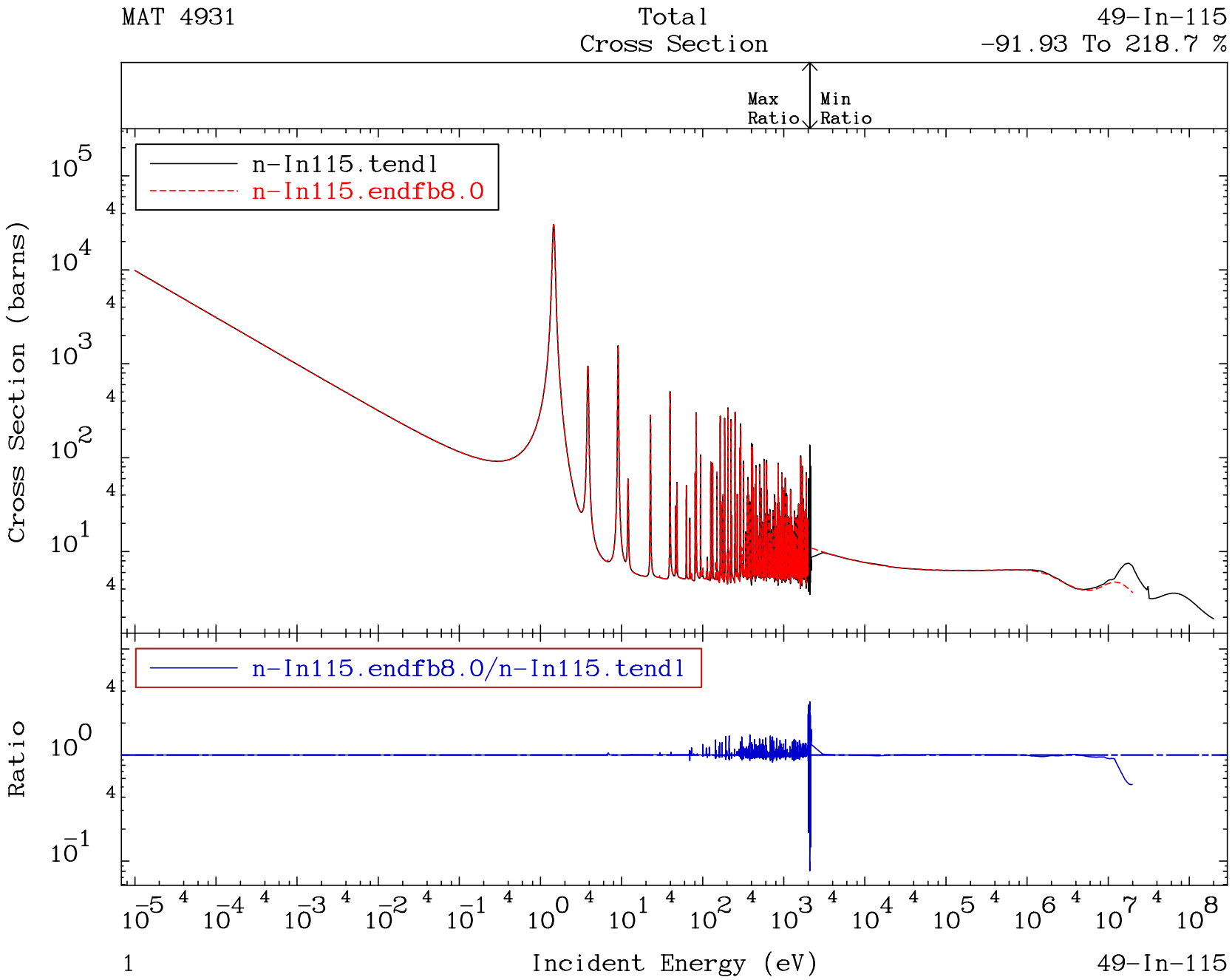
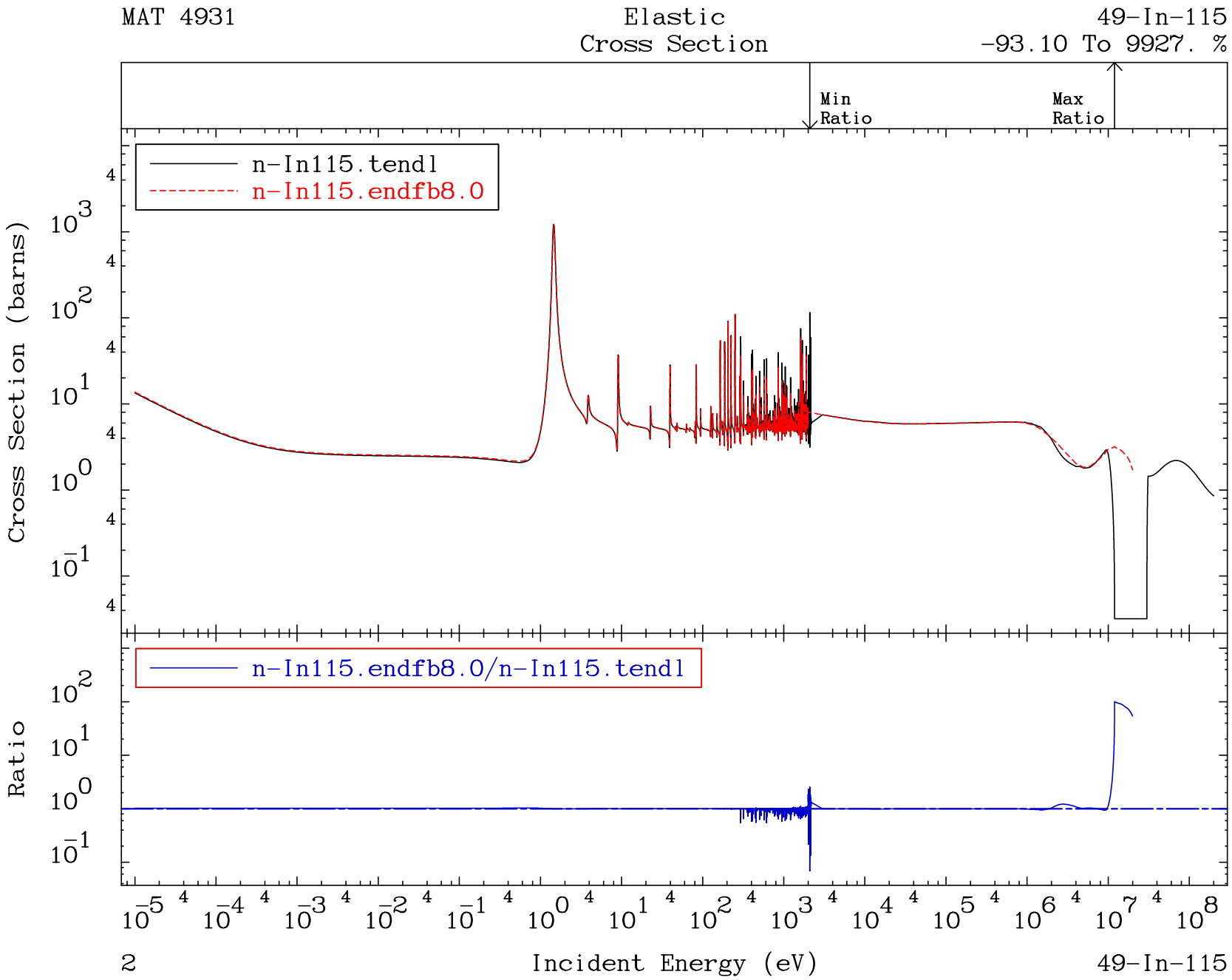
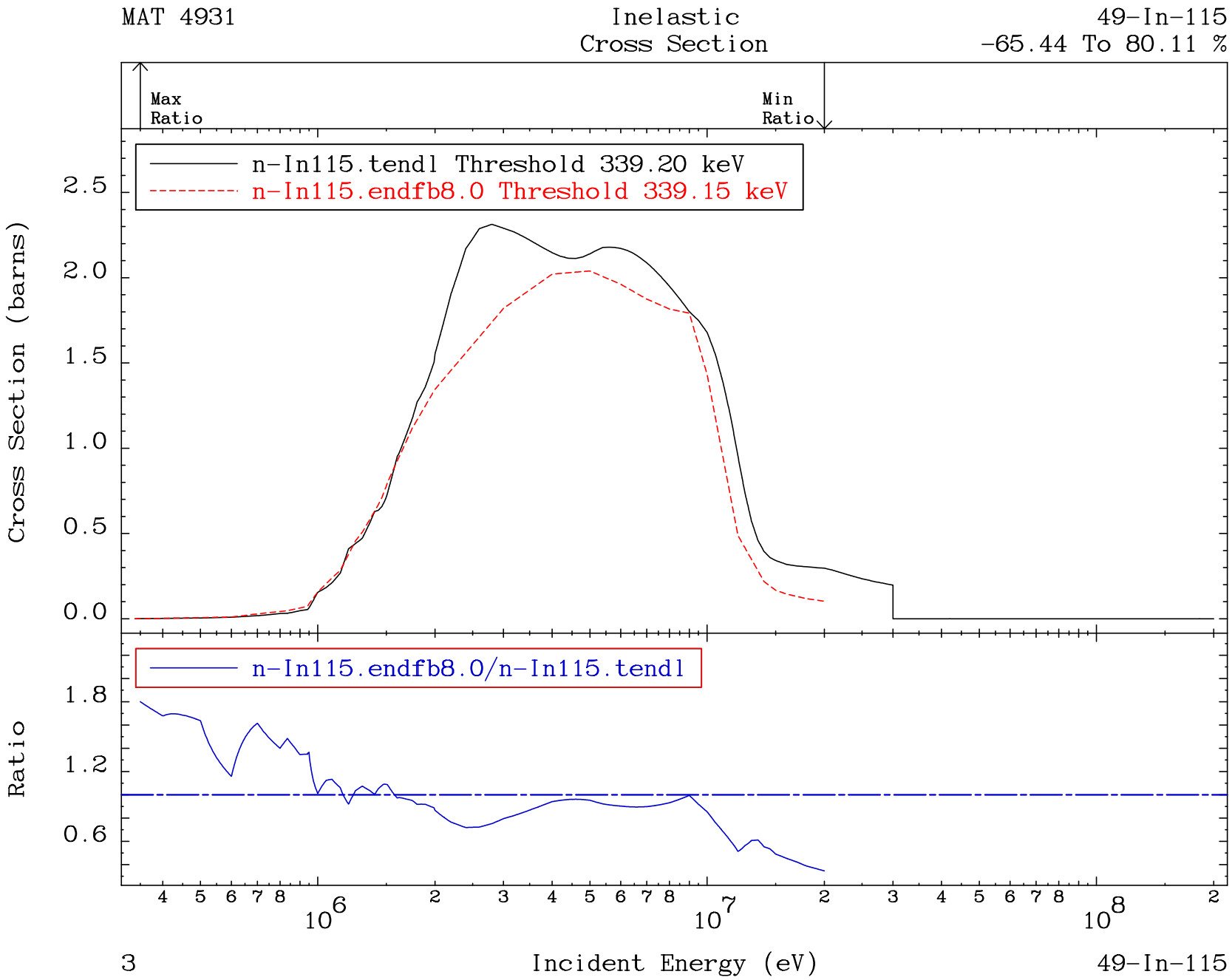
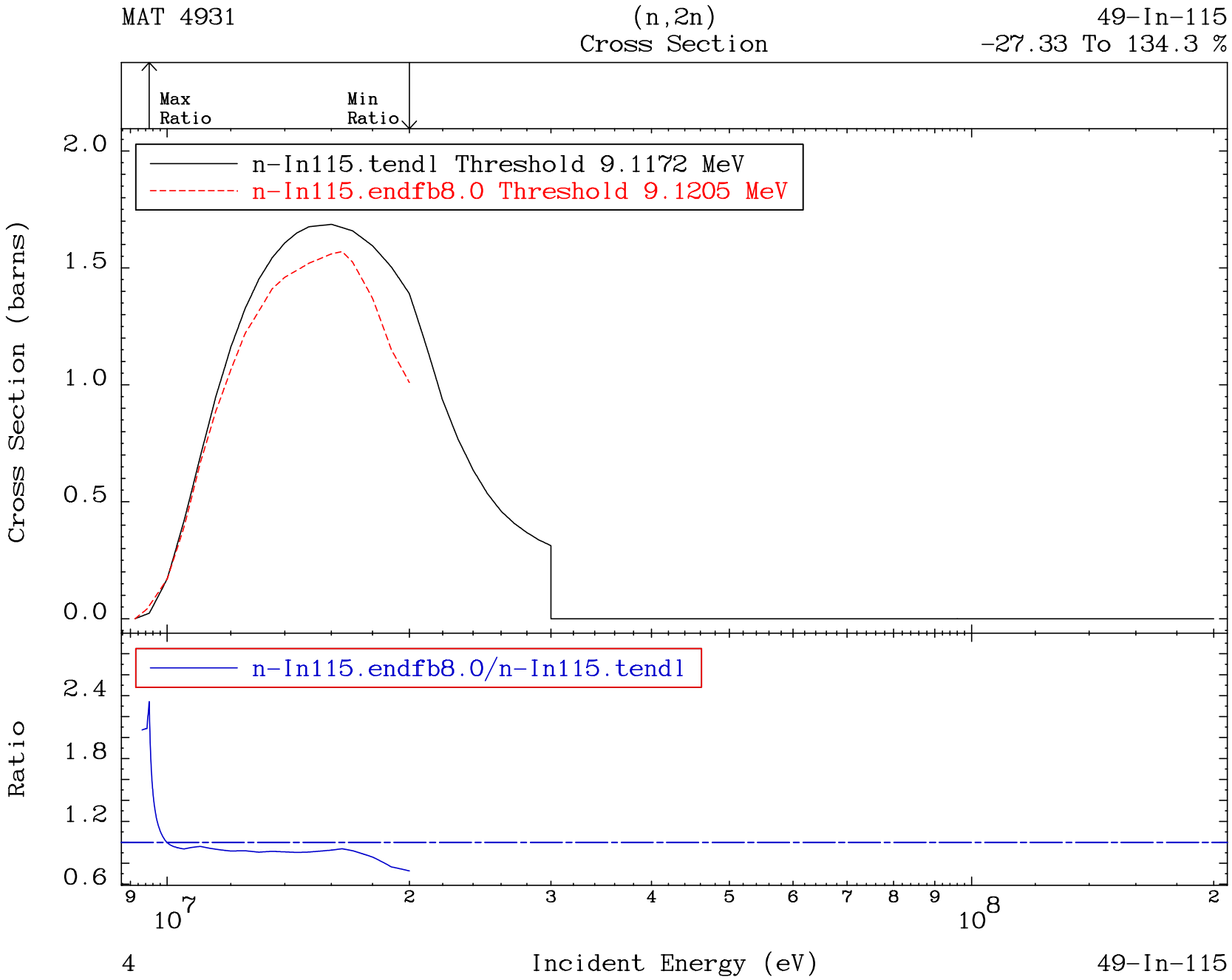
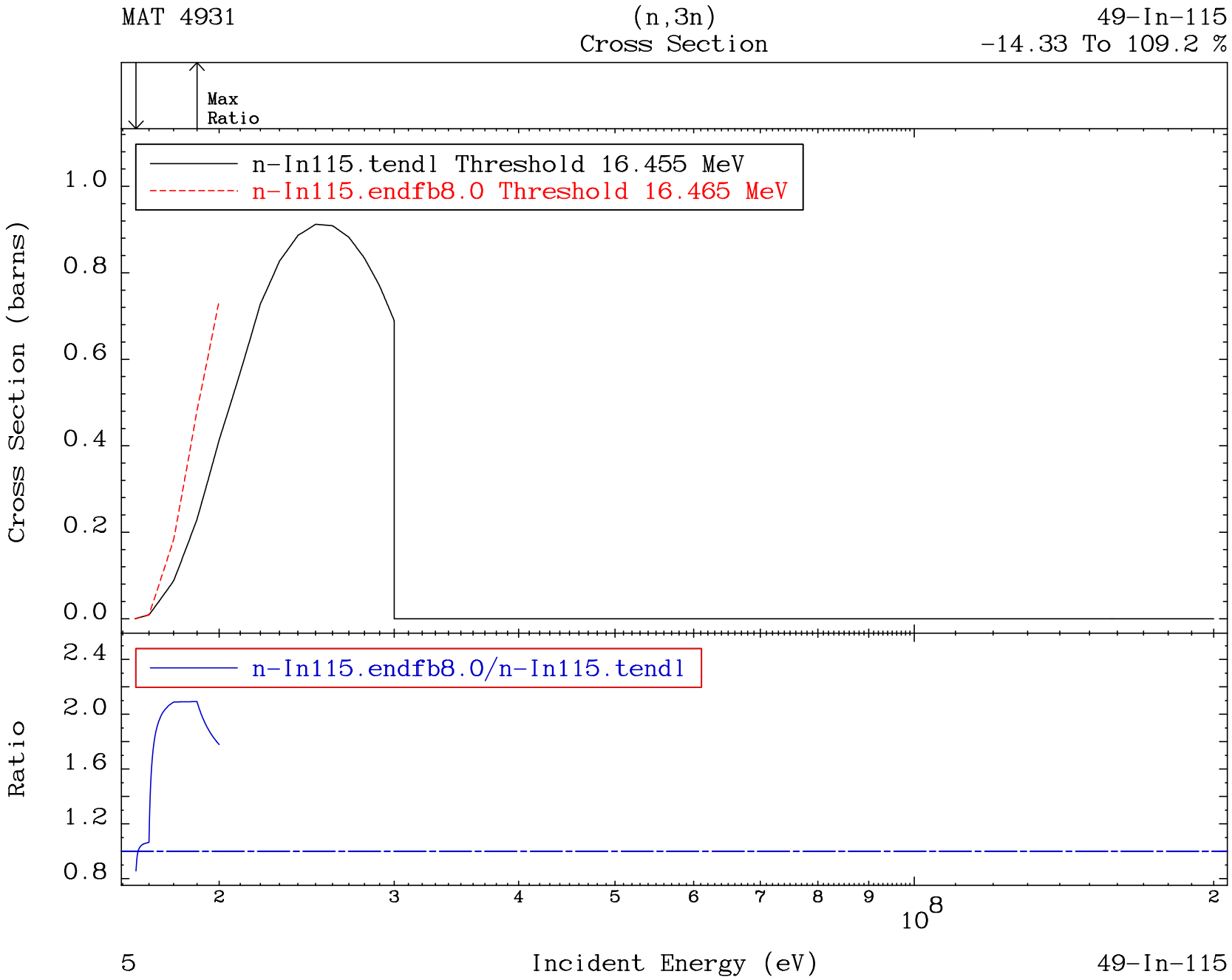
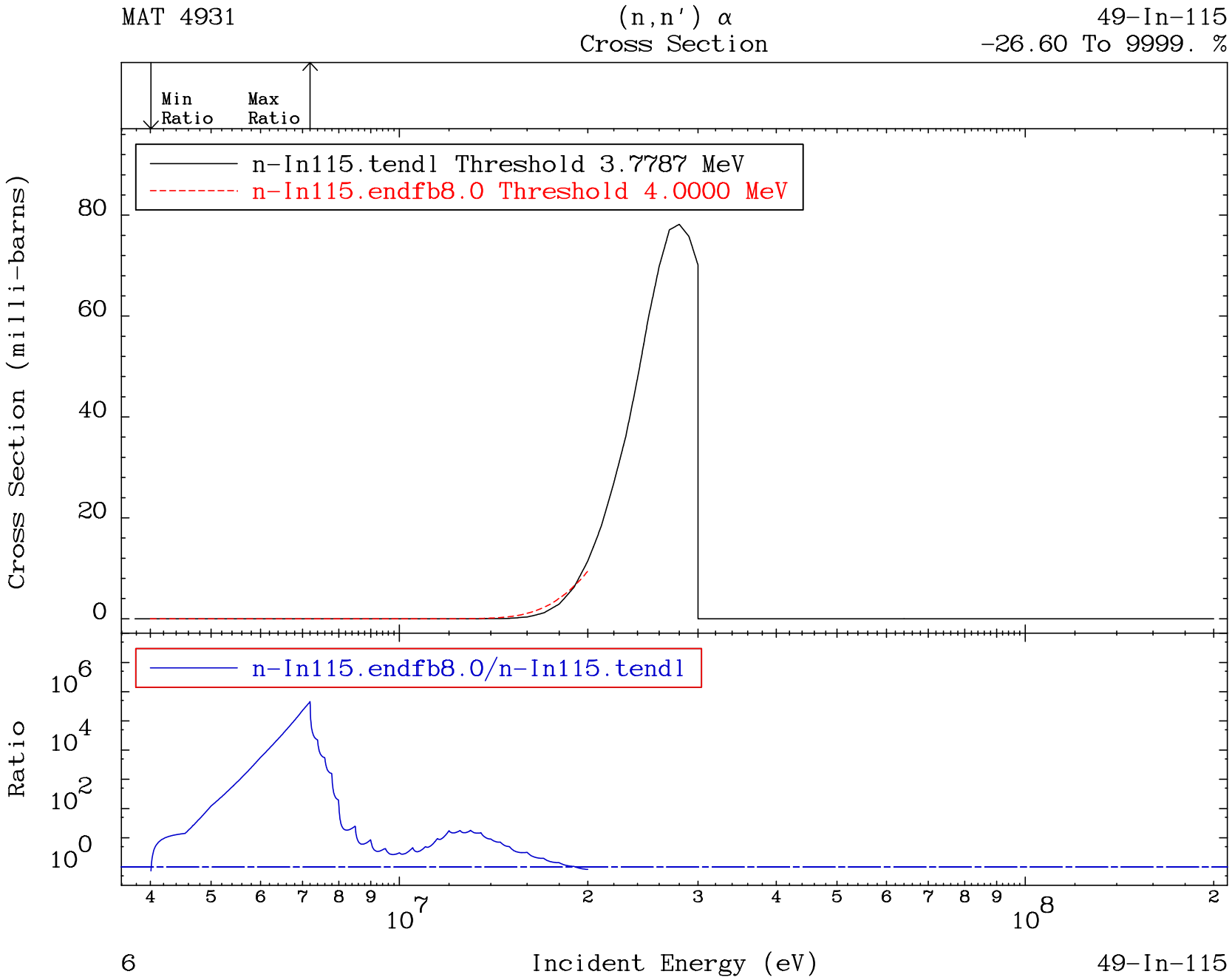

MAT 4931
Total
Cross Section
49-In-115
-91.93 To 218.7 %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
1
49-In-115

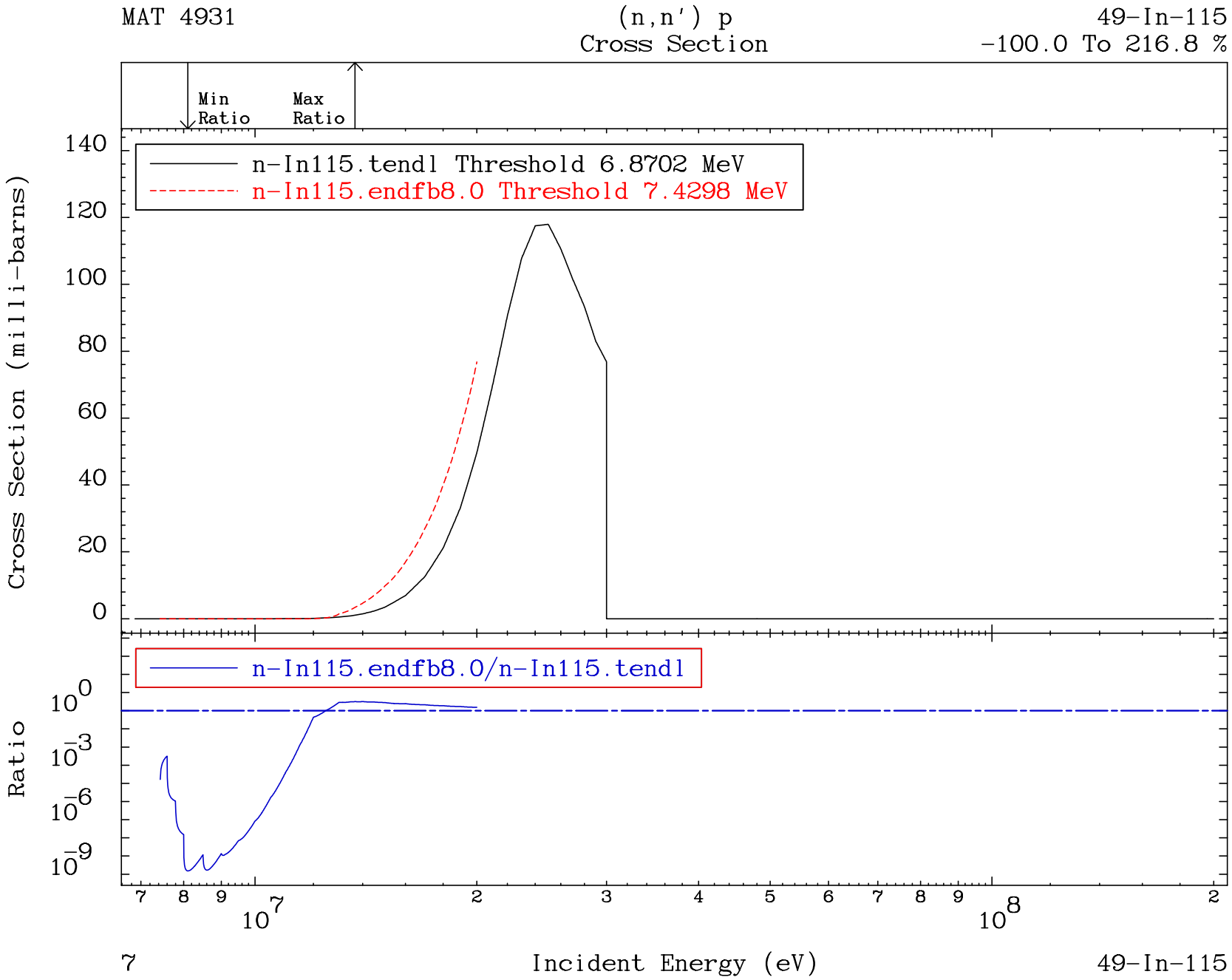

MAT 4931
Elastic
Cross Section
49-In-115
-93.10 To 9927. %
Min
Ratio
Max
Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
2
49-In-115

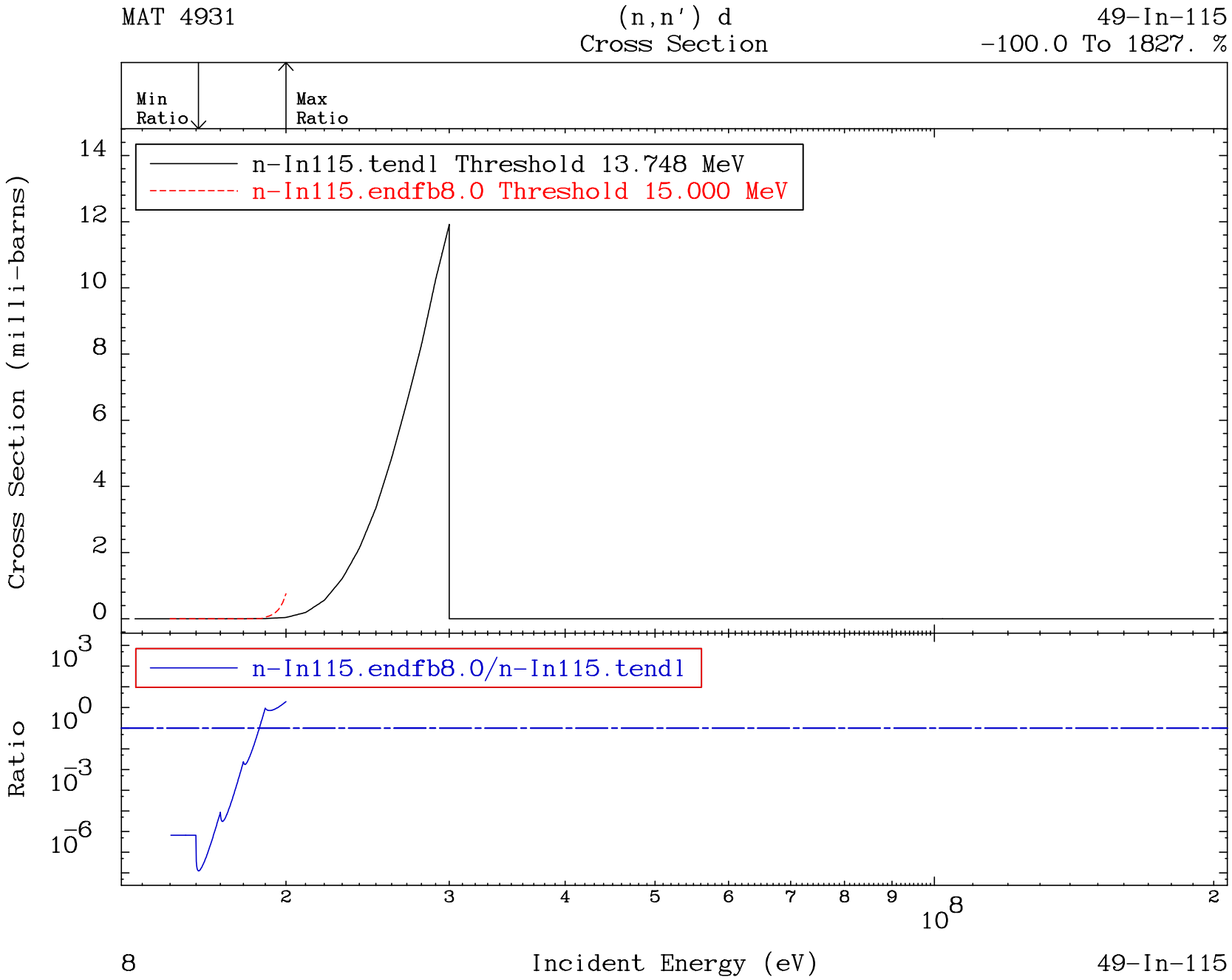

MAT 4931
Inelastic
Cross Section
49-In-115
-65.44 To 80.11 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 339.20 keV
n-In115.endfb8.0 Threshold 339.15 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-In115.endfb8.0/n-In115.tendl
Ratio
1.8
1.2
0.6
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
49-In-115

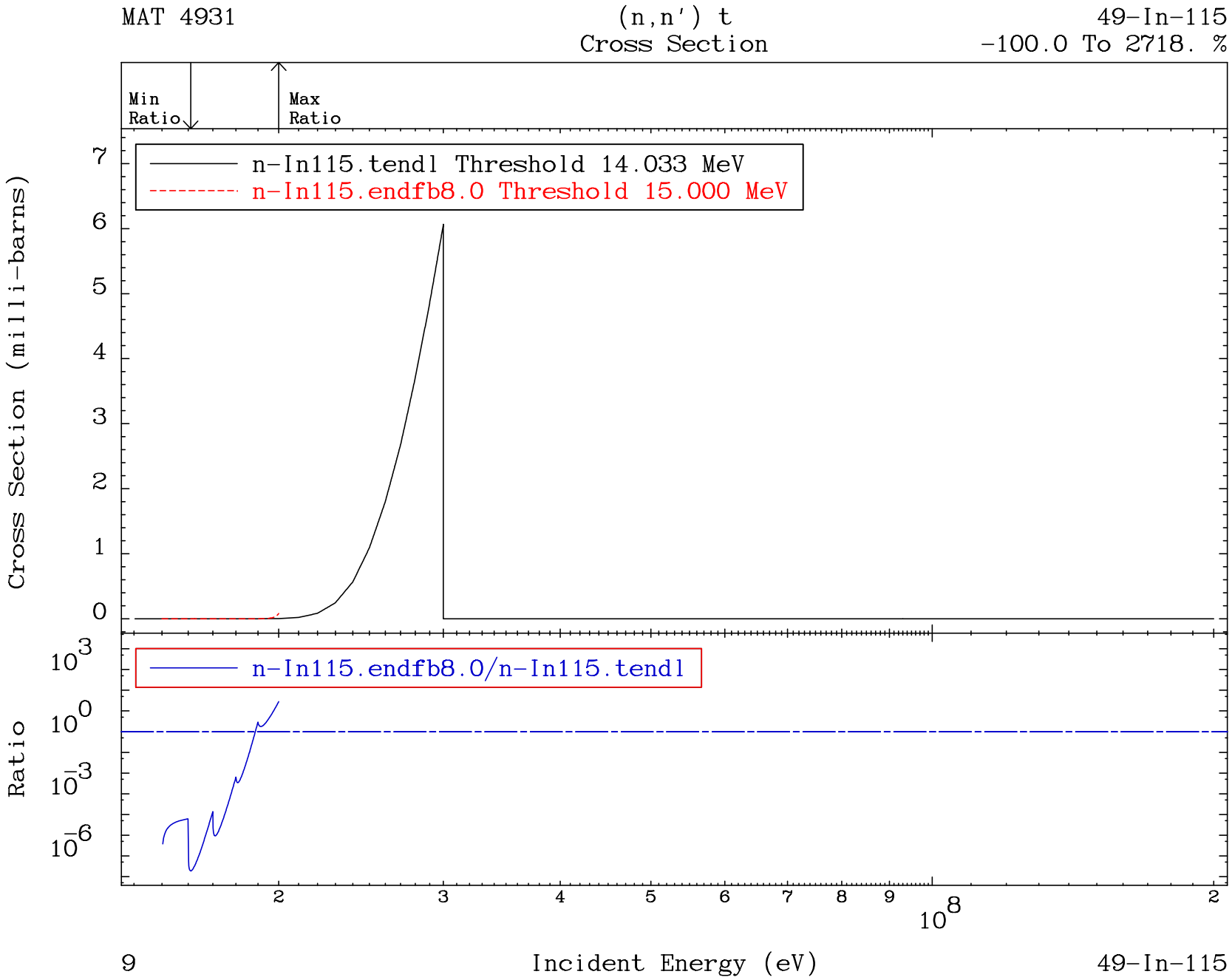

MAT 4931
(n,2n)
Cross Section
49-In-115
-27.33 To 134.3 %
Max Ratio
Min Ratio
n-In115.tendl Threshold 9.1172 MeV
n-In115.endfb8.0 Threshold 9.1205 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-In115.endfb8.0/n-In115.tendl
Ratio
2.4
1.8
1.2
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
49-In-115

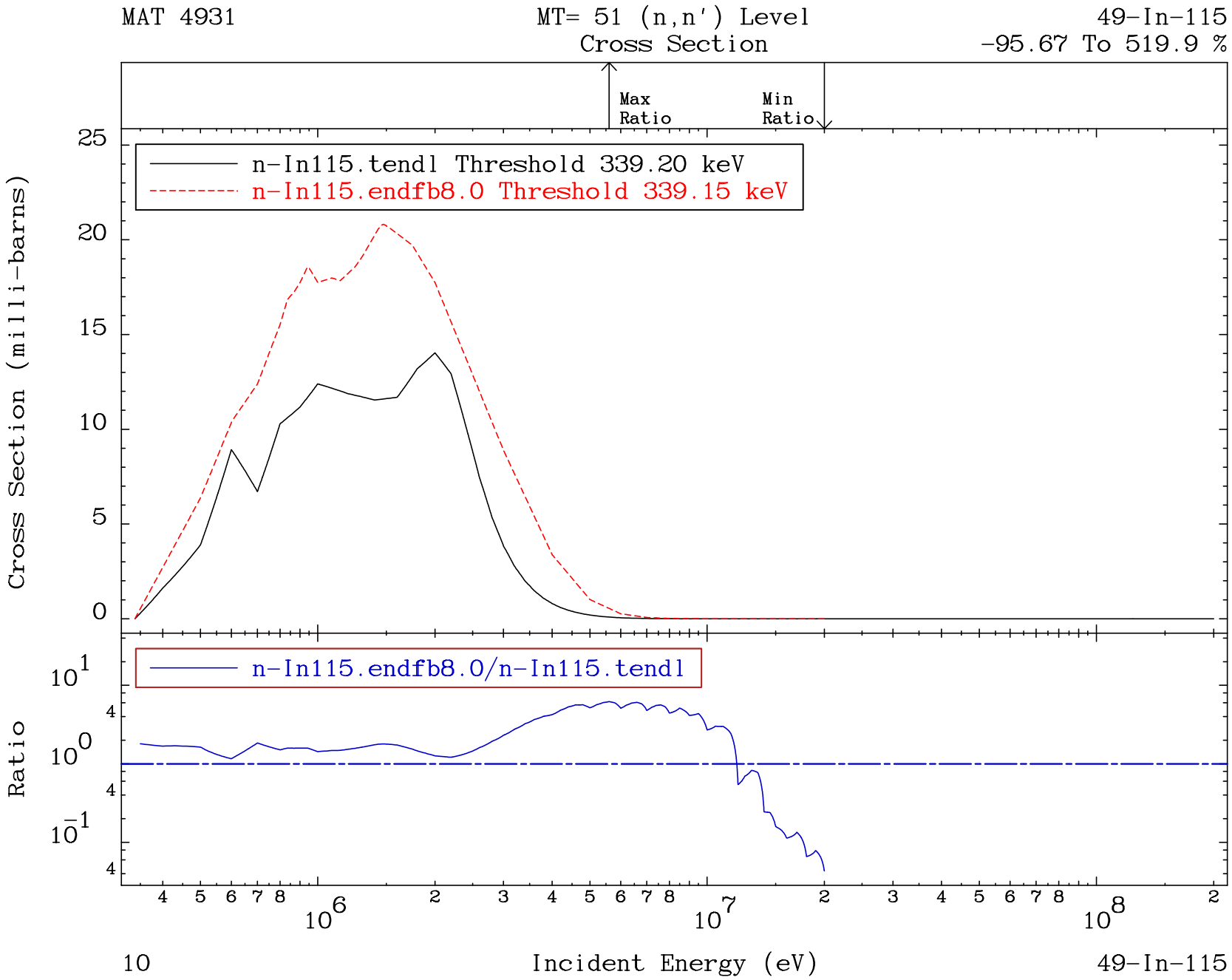

MAT 4931
(n,3n)
Cross Section
49-In-115
-14.33 To 109.2 %
Max
Ratio
n-In115.tendl Threshold 16.455 MeV
n-In115.endfb8.0 Threshold 16.465 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-In115.endfb8.0/n-In115.tendl
Ratio
2.4
2.0
1.6
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
49-In-115

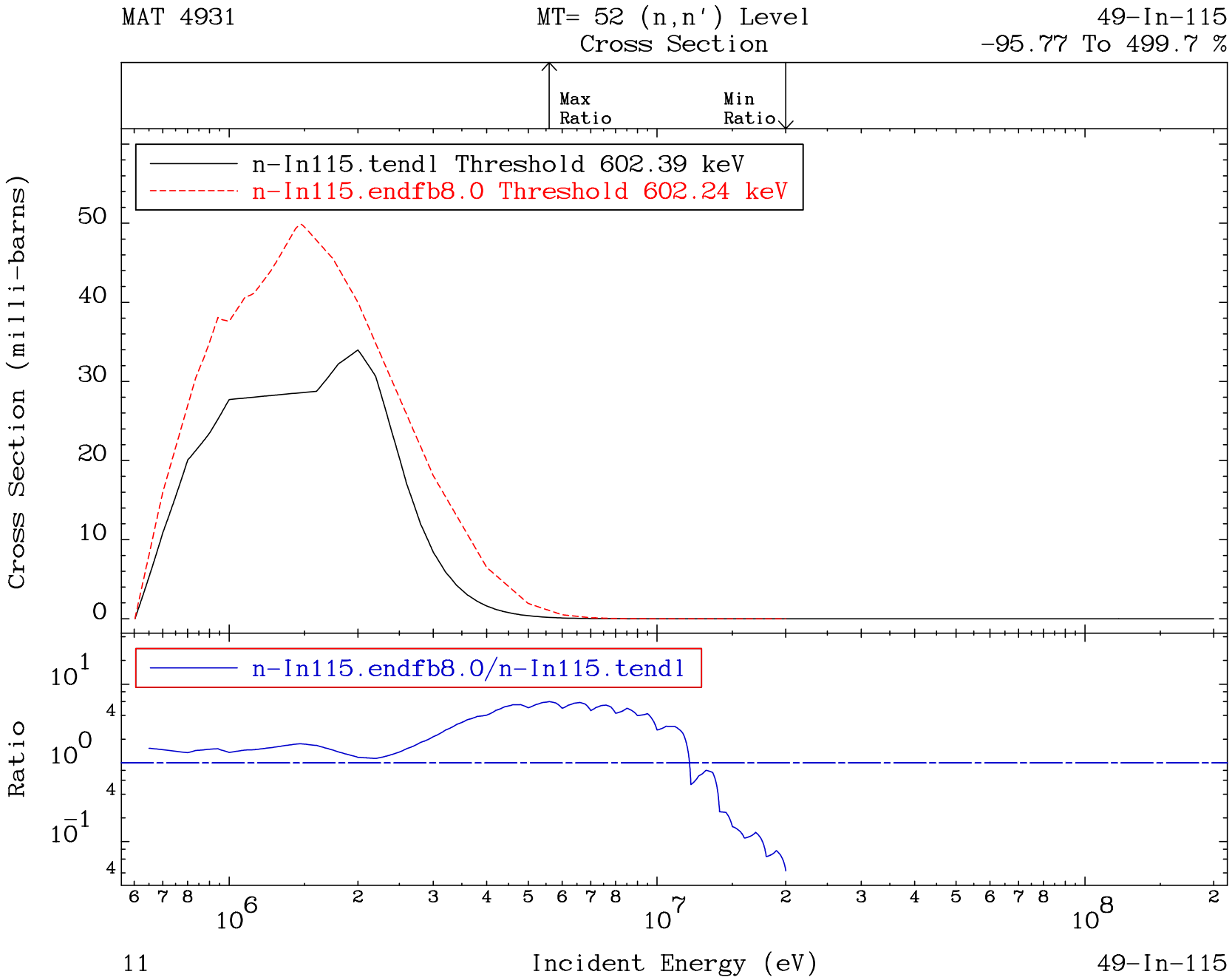

MAT 4931
(n,n') α
Cross Section
49-In-115
-26.60 To 9999. %
Min Ratio
Max Ratio
n-In115.tendl Threshold 3.7787 MeV
n-In115.endfb8.0 Threshold 4.0000 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
49-In-115

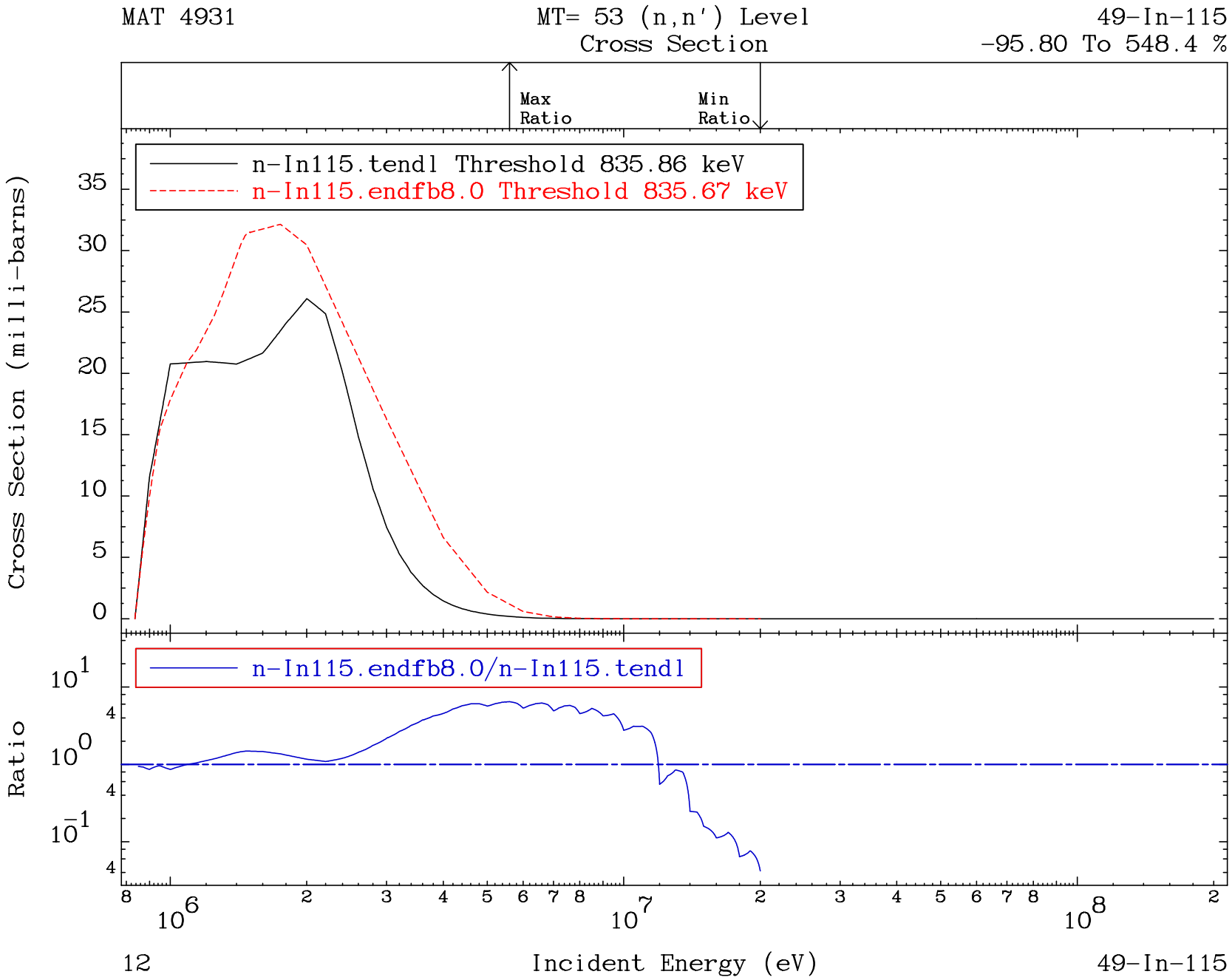

MAT 4931
(n,n') p
Cross Section
49-In-115
-100.0 To 216.8 %
Min Ratio
Max Ratio
n-In115.tendl Threshold 6.8702 MeV
n-In115.endfb8.0 Threshold 7.4298 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
10^-9
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
49-In-115

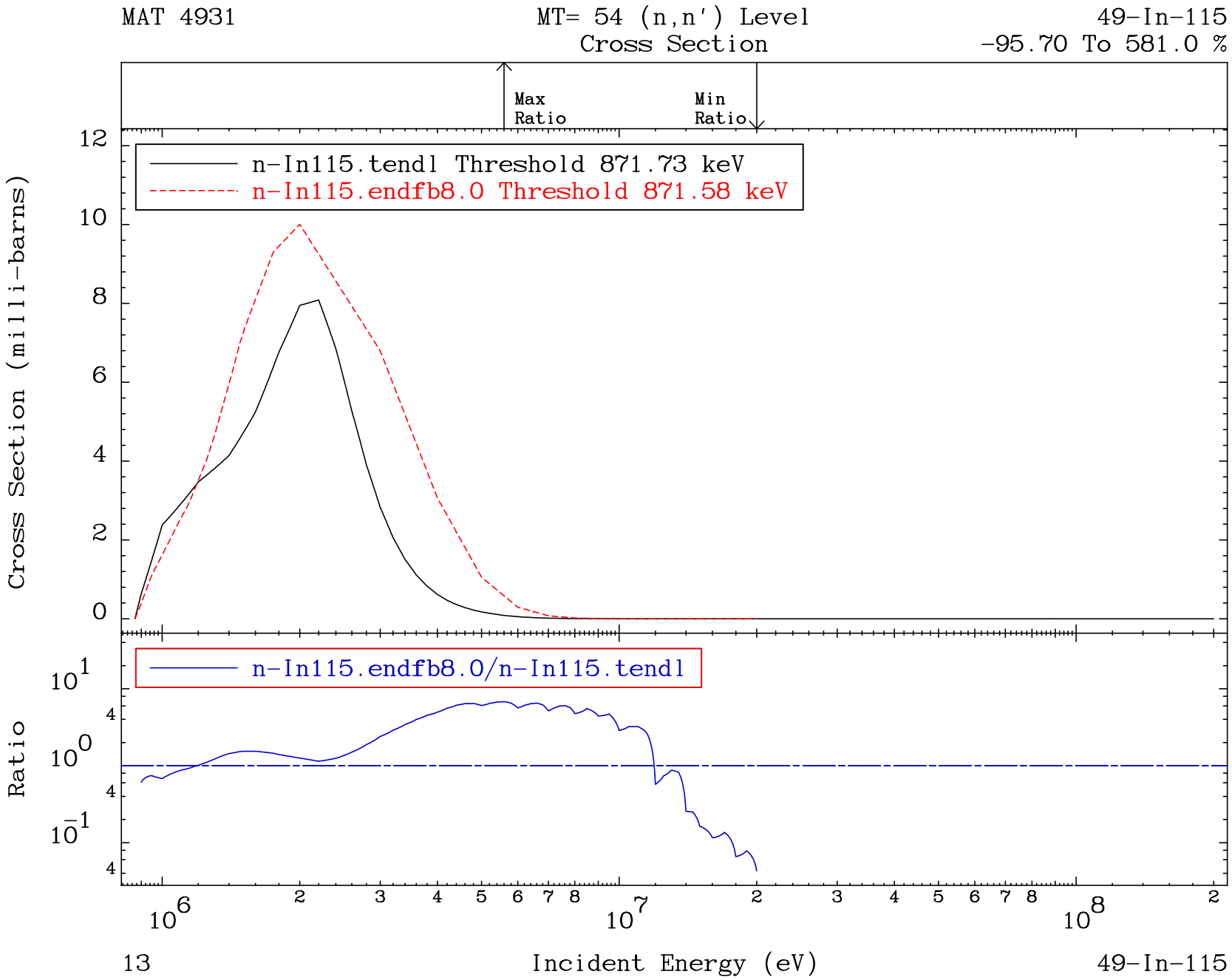

MAT 4931
(n,n') d
Cross Section
49-In-115
-100.0 To 1827. %
Min Ratio
Max Ratio
n-In115.tendl Threshold 13.748 MeV
n-In115.endfb8.0 Threshold 15.000 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^3
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
49-In-115

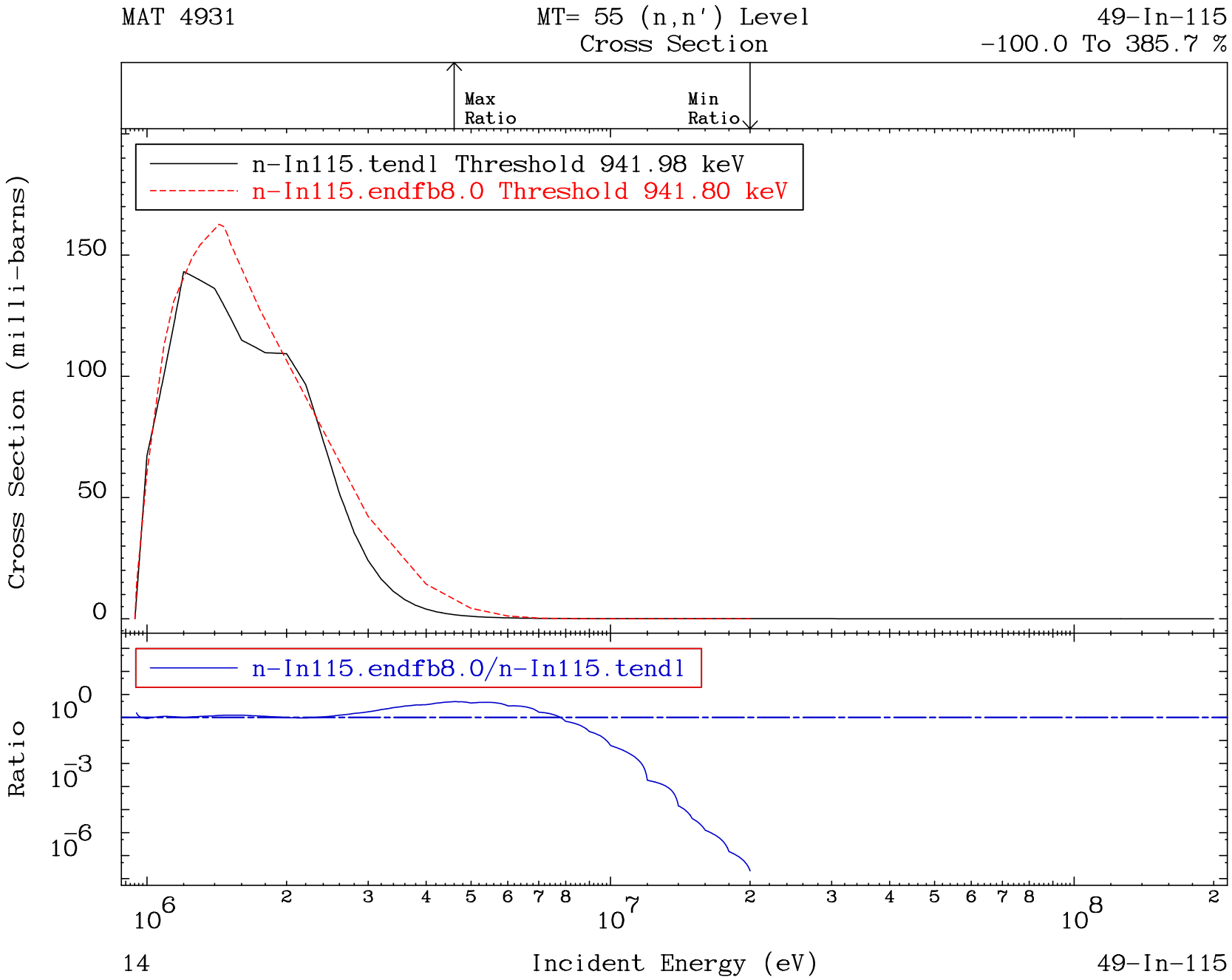

MAT 4931
(n,n') t
Cross Section
49-In-115
-100.0 To 2718. %
Min Ratio
Max Ratio
n-In115.tendl Threshold 14.033 MeV
n-In115.endfb8.0 Threshold 15.000 MeV
Cross Section (milli-barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
9
49-In-115

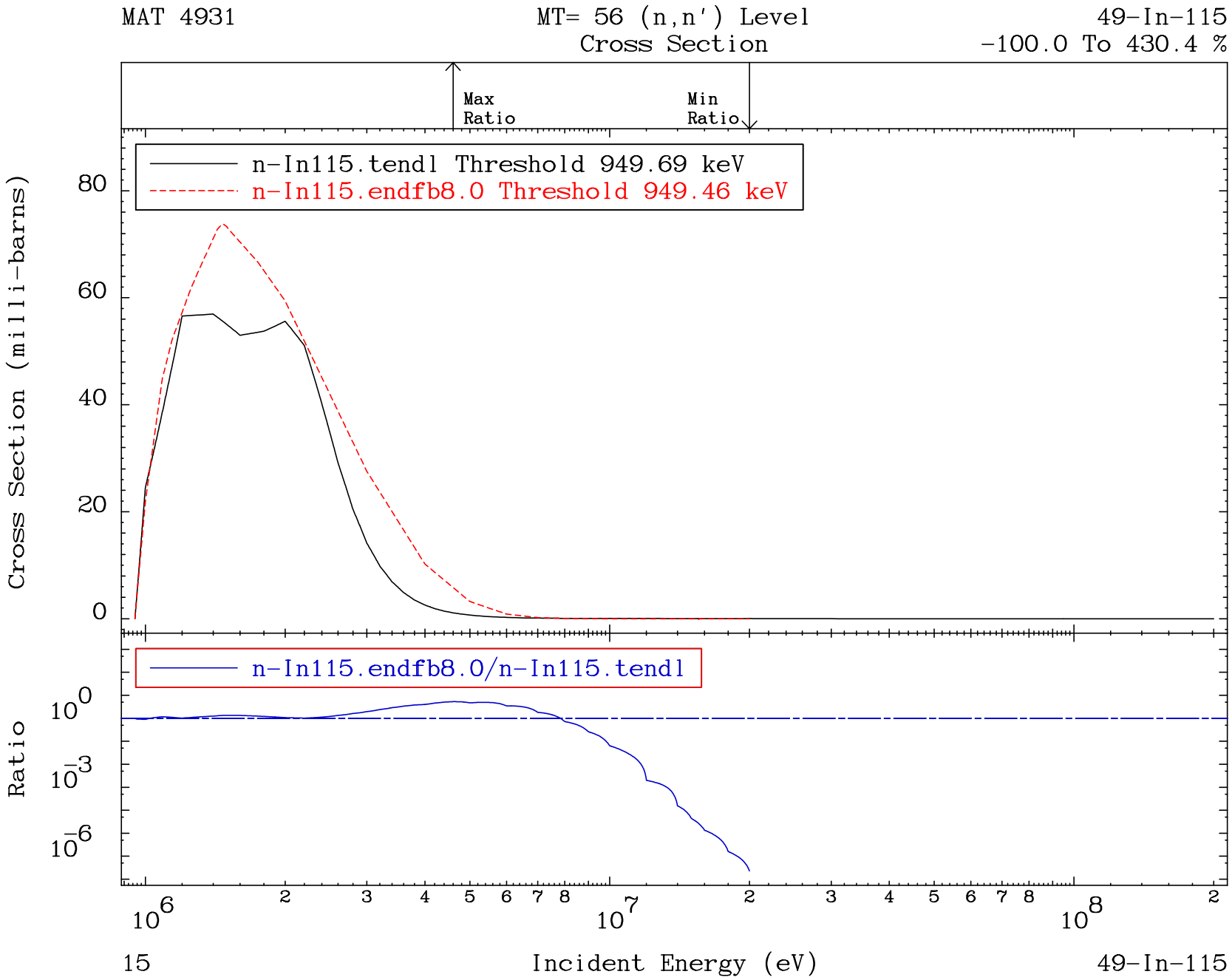

MAT 4931
MT= 51 (n,n') Level
Cross Section
49-In-115
-95.67 To 519.9 %
Max Ratio
Min Ratio
n-In115.tendl Threshold 339.20 keV
n-In115.endfb8.0 Threshold 339.15 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^1
10^0
10^-1
4
10^6
10^7
10^8
Incident Energy (eV)
10
49-In-115

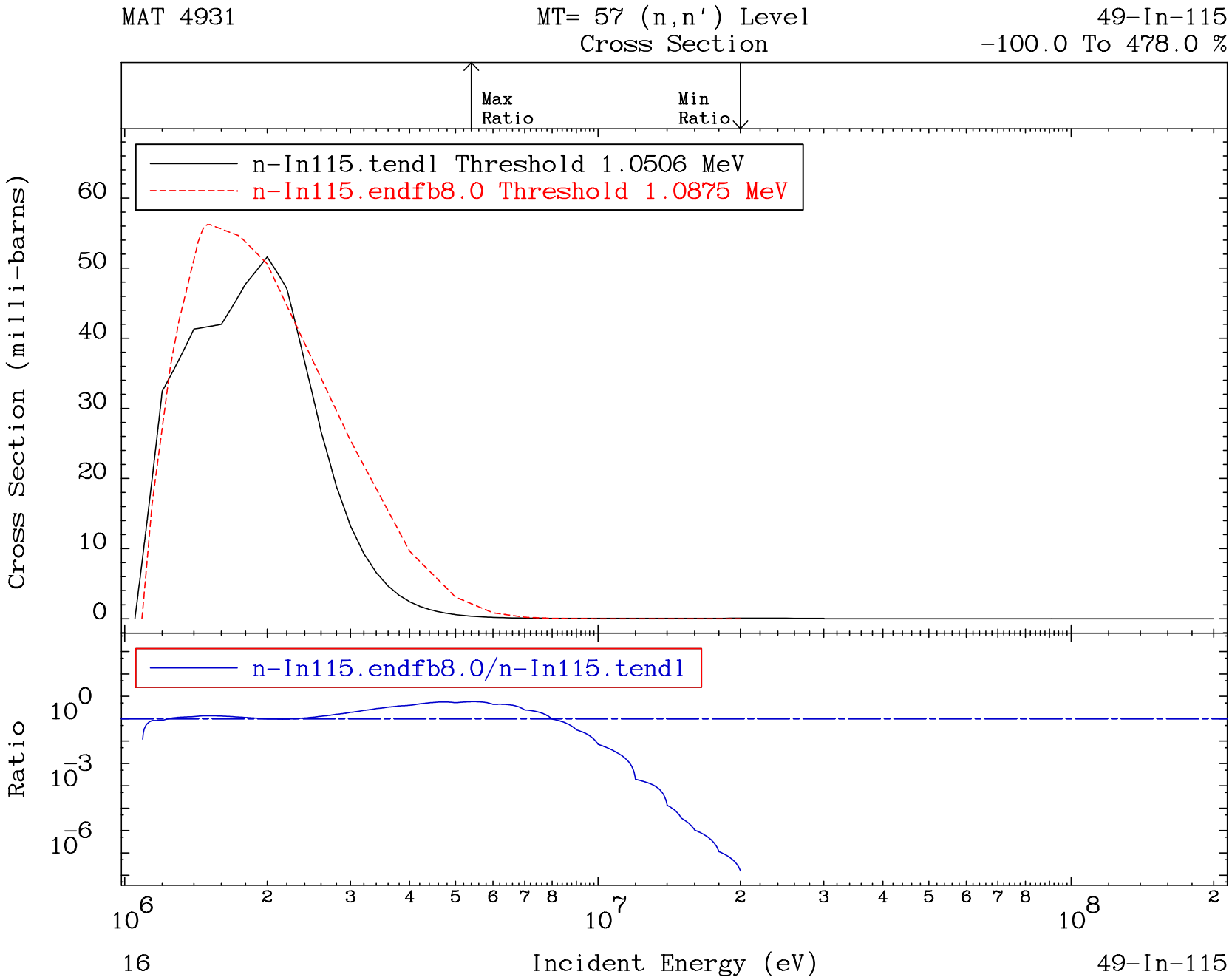

MAT 4931
MT= 52 (n,n') Level
Cross Section
49-In-115
-95.77 To 499.7 %
Max Ratio
Min Ratio
n-In115.tendl Threshold 602.39 keV
n-In115.endfb8.0 Threshold 602.24 keV
Cross Section (milli-barns)
0
10
20
30
40
50
n-In115.endfb8.0/n-In115.tendl
Ratio
10^1
10^0
10^-1
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
49-In-115

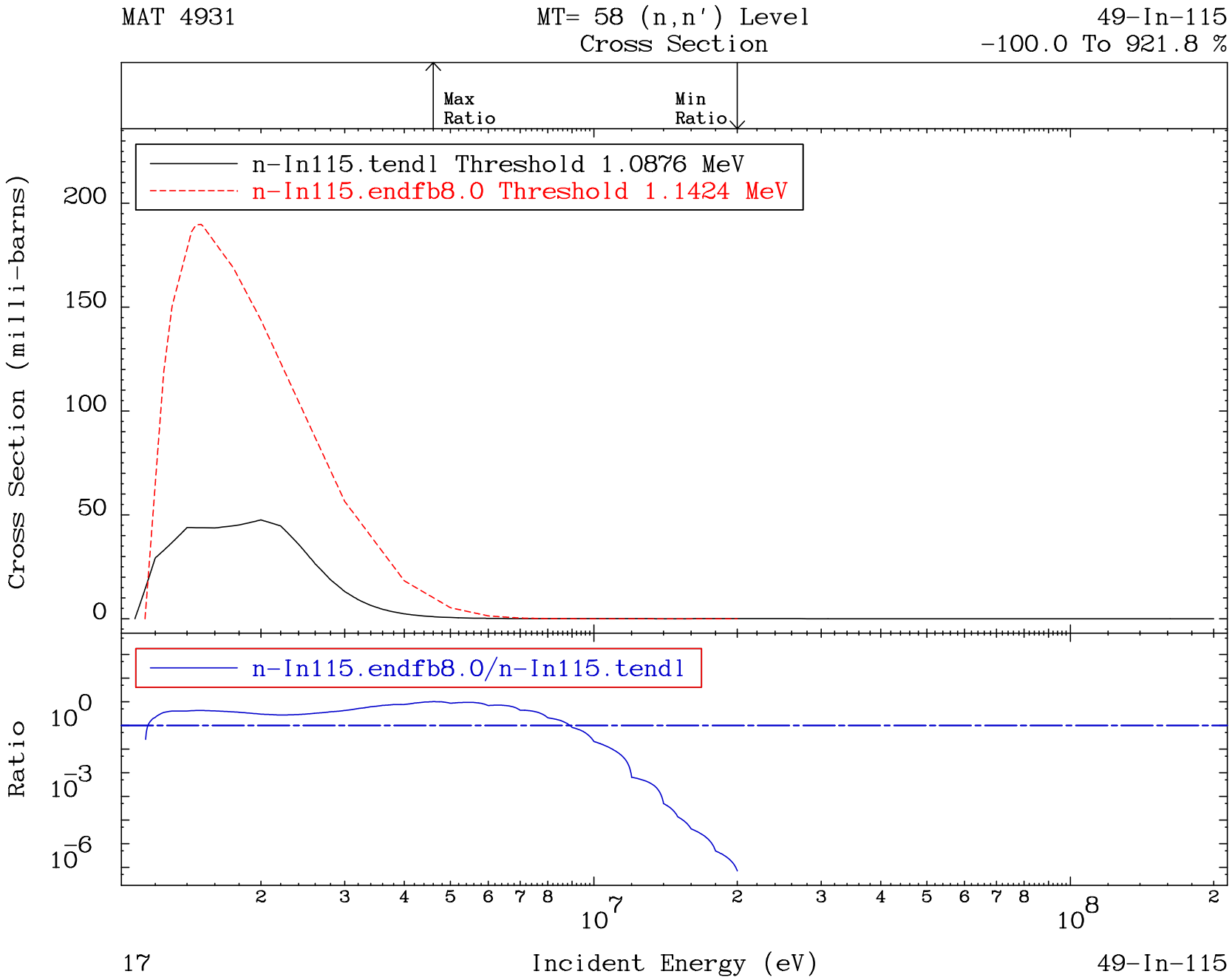

MAT 4931
MT= 53 (n,n') Level
Cross Section
49-In-115
-95.80 To 548.4 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 835.86 keV
n-In115.endfb8.0 Threshold 835.67 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^1
10^0
10^-1
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
49-In-115

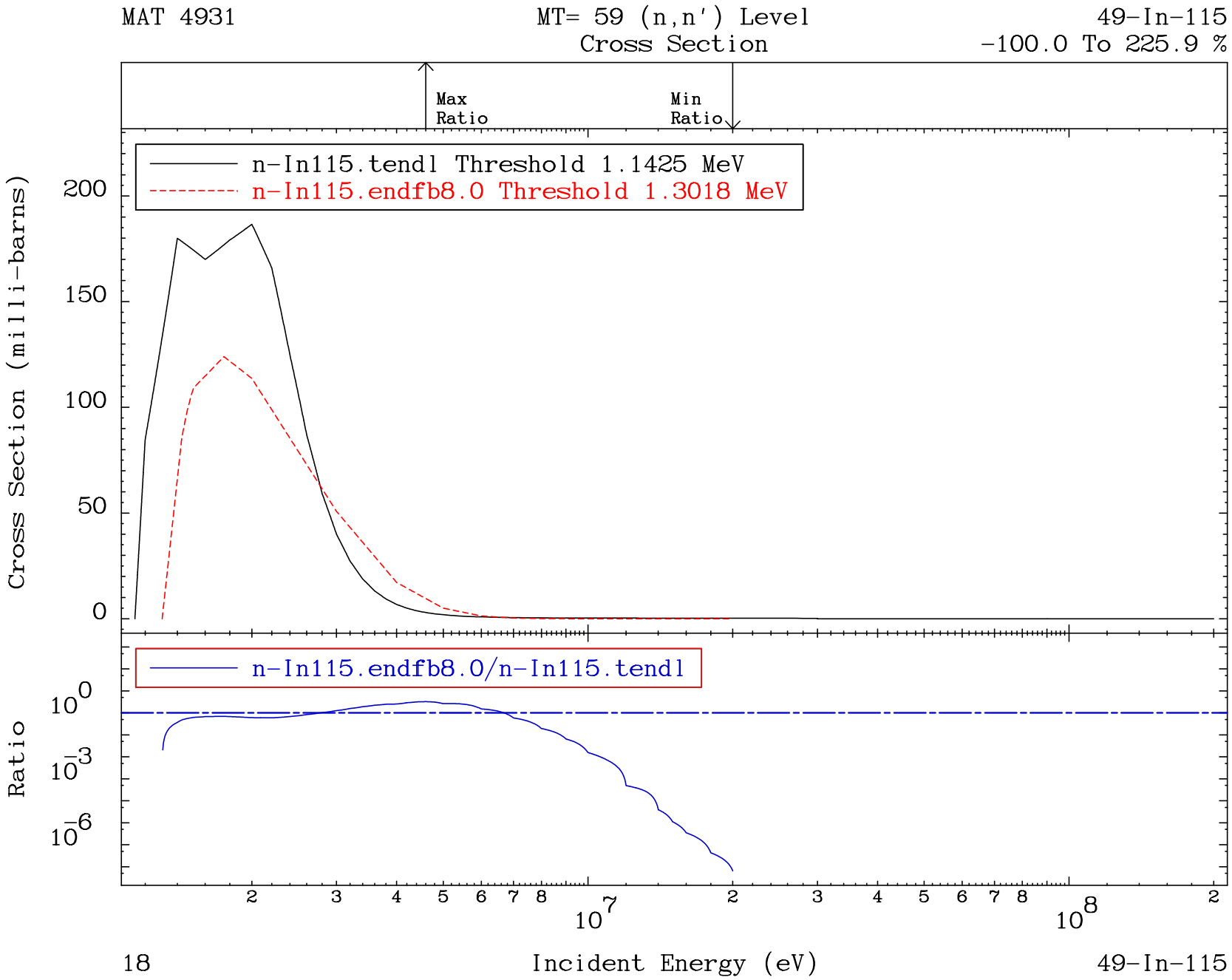

MAT 4931
MT= 54 (n,n') Level
Cross Section
49-In-115
-95.70 To 581.0 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 871.73 keV
n-In115.endfb8.0 Threshold 871.58 keV
Cross Section (milli-barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
13
49-In-115

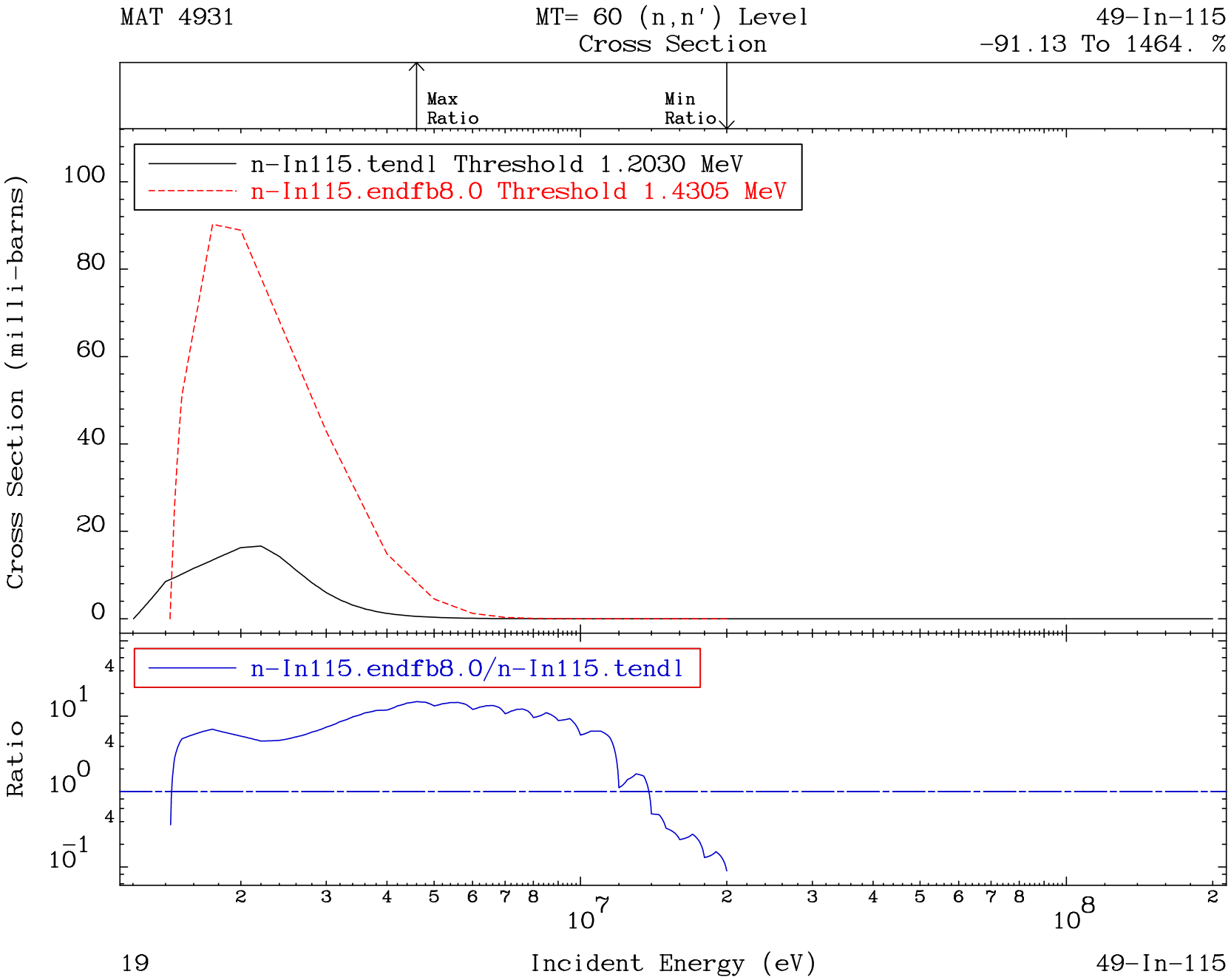

MAT 4931
MT= 55 (n,n') Level
Cross Section
49-In-115
-100.0 To 385.7 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 941.98 keV
n-In115.endfb8.0 Threshold 941.80 keV
Cross Section (milli-barns)
150
100
50
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
49-In-115

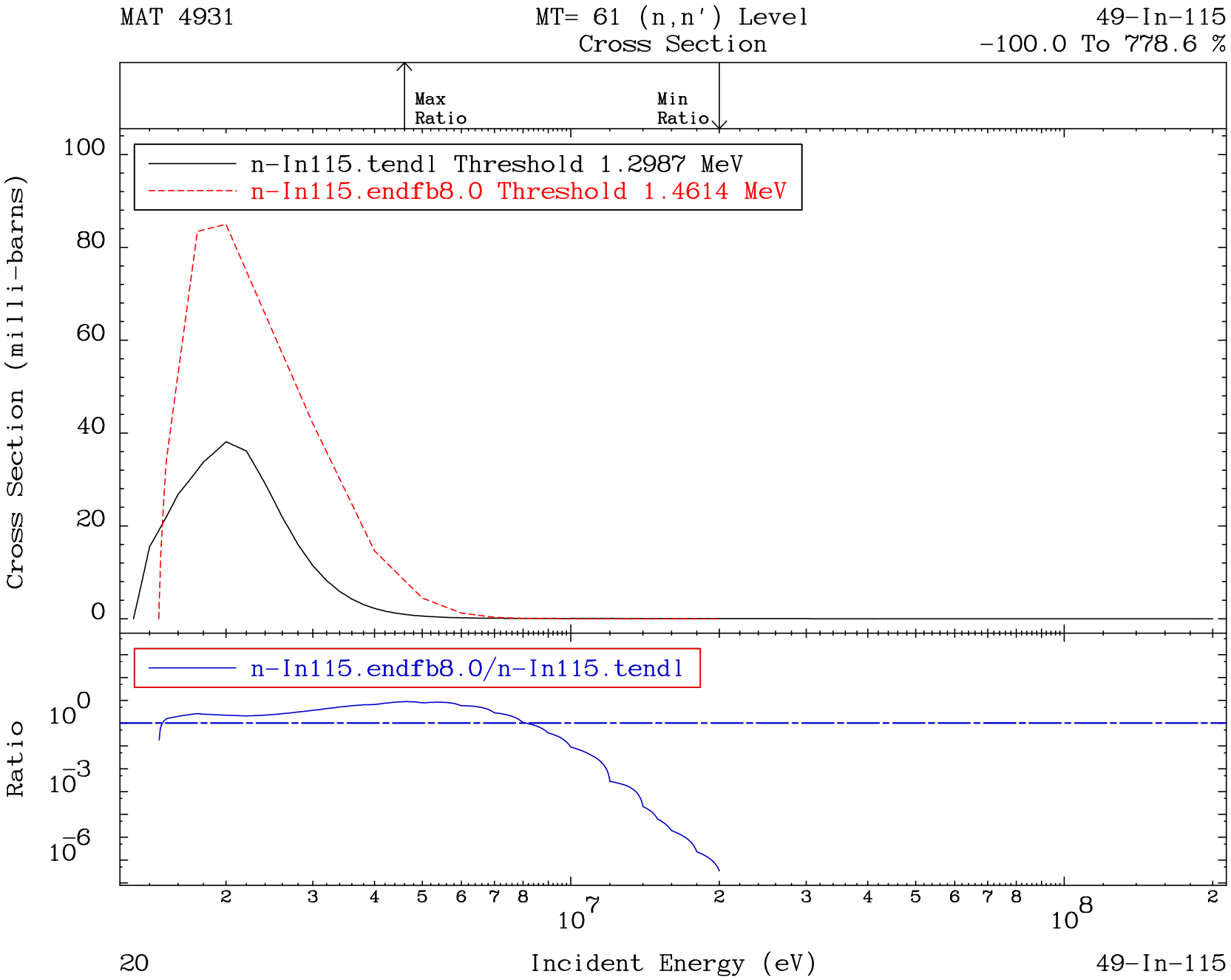

MAT 4931
MT= 56 (n,n') Level
Cross Section
49-In-115
-100.0 To 430.4 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 949.69 keV
n-In115.endfb8.0 Threshold 949.46 keV
Cross Section (milli-barns)
80
60
40
20
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
49-In-115

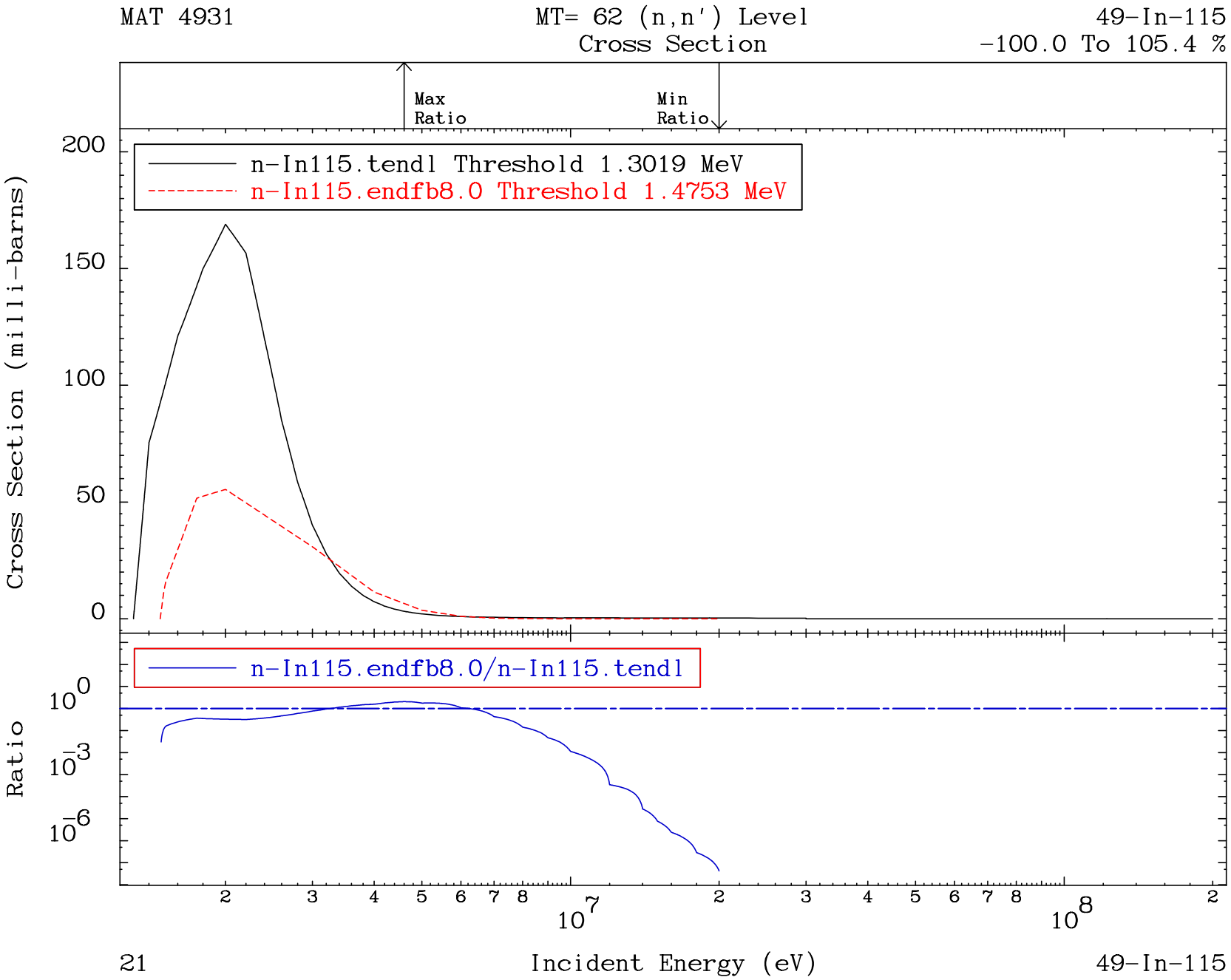

MAT 4931
MT= 57 (n,n') Level
Cross Section
49-In-115
-100.0 To 478.0 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.0506 MeV
n-In115.endfb8.0 Threshold 1.0875 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
49-In-115

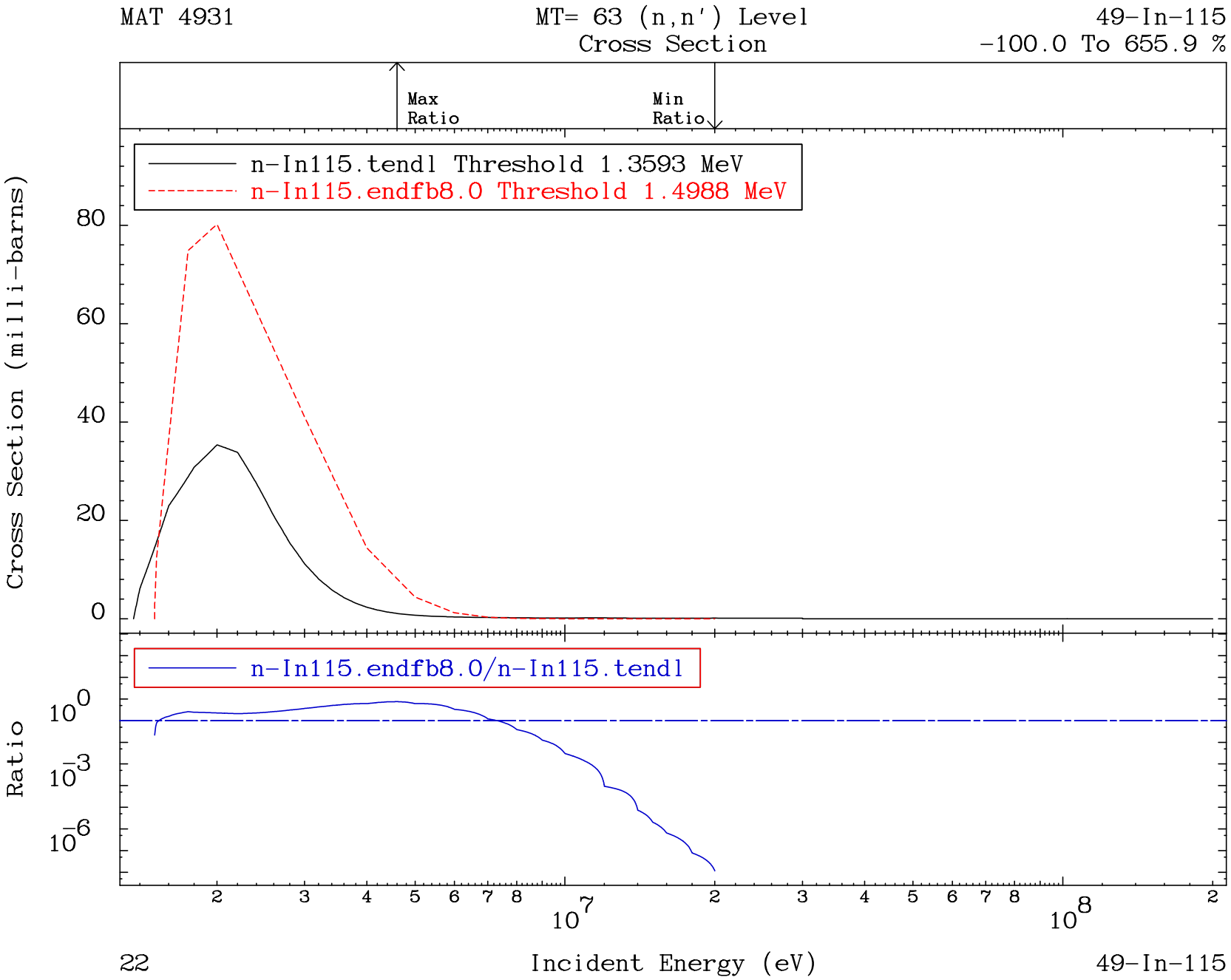

MAT 4931
MT= 58 (n,n') Level
Cross Section
49-In-115
-100.0 To 921.8 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.0876 MeV
n-In115.endfb8.0 Threshold 1.1424 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
49-In-115

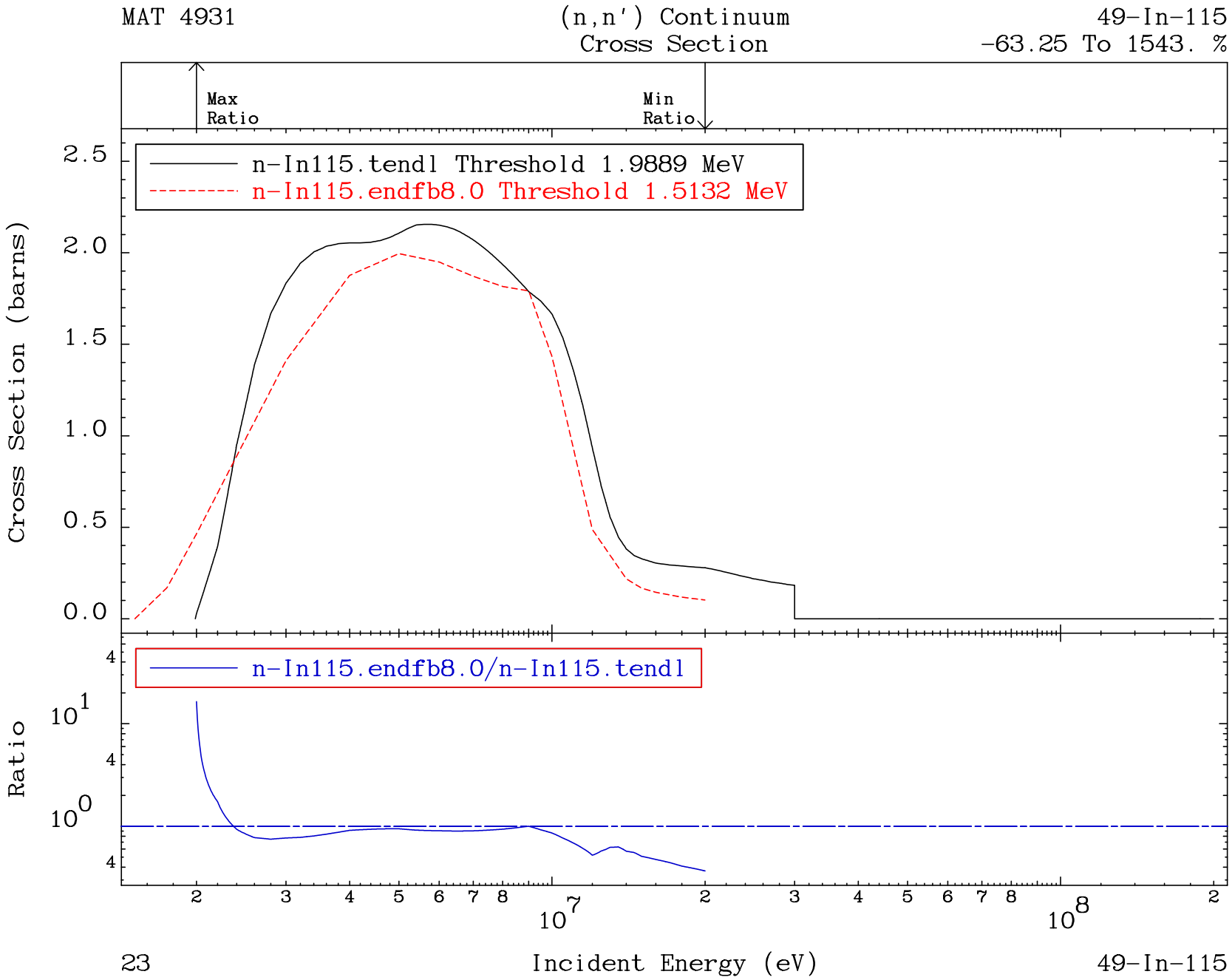

MAT 4931
MT= 59 (n,n') Level
Cross Section
49-In-115
-100.0 To 225.9 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.1425 MeV
n-In115.endfb8.0 Threshold 1.3018 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
49-In-115

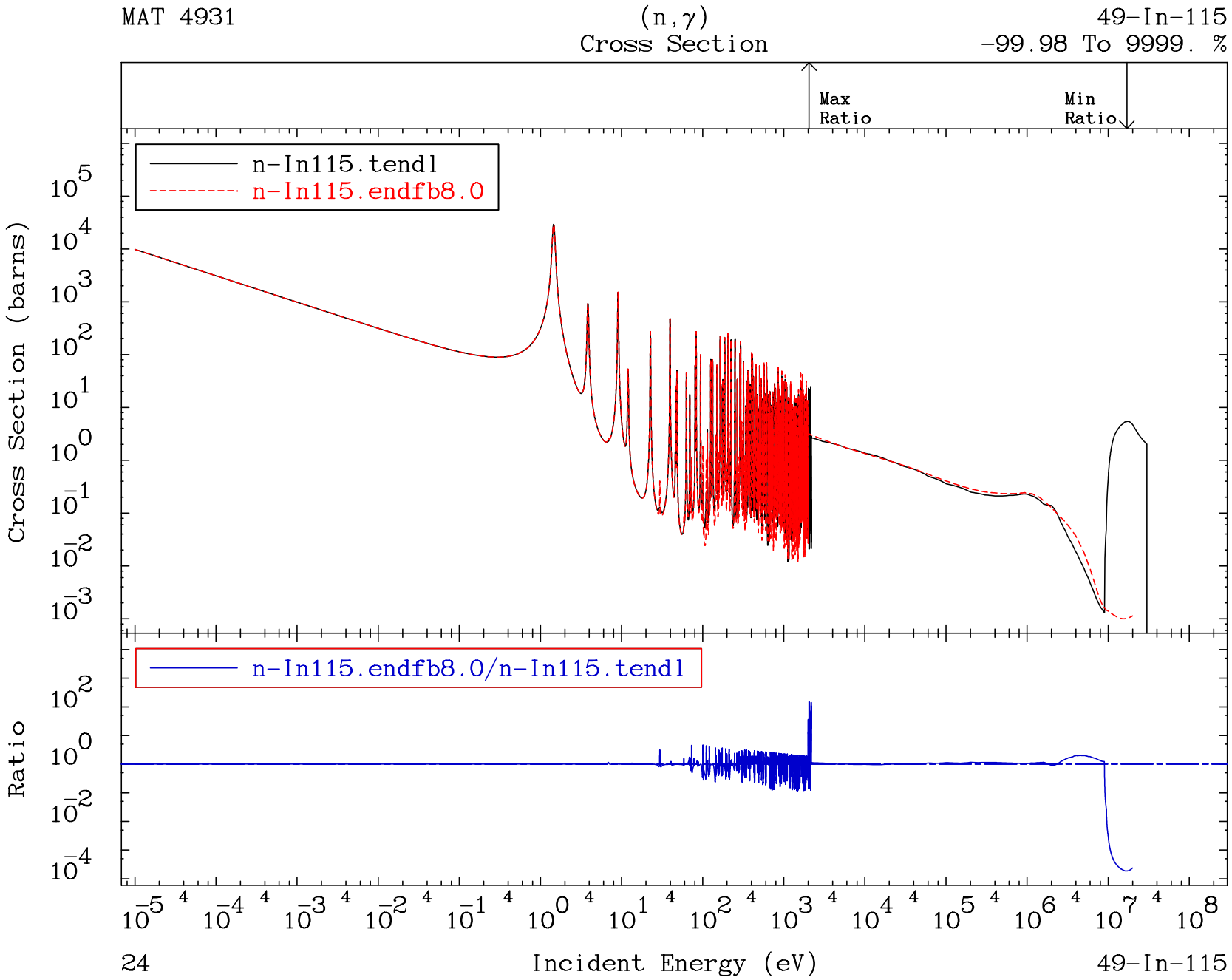

MAT 4931
MT= 60 (n,n') Level
Cross Section
49-In-115
-91.13 To 1464. %
Max Ratio
Min Ratio
n-In115.tendl Threshold 1.2030 MeV
n-In115.endfb8.0 Threshold 1.4305 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^1
10^0
10^{-1}
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
49-In-115

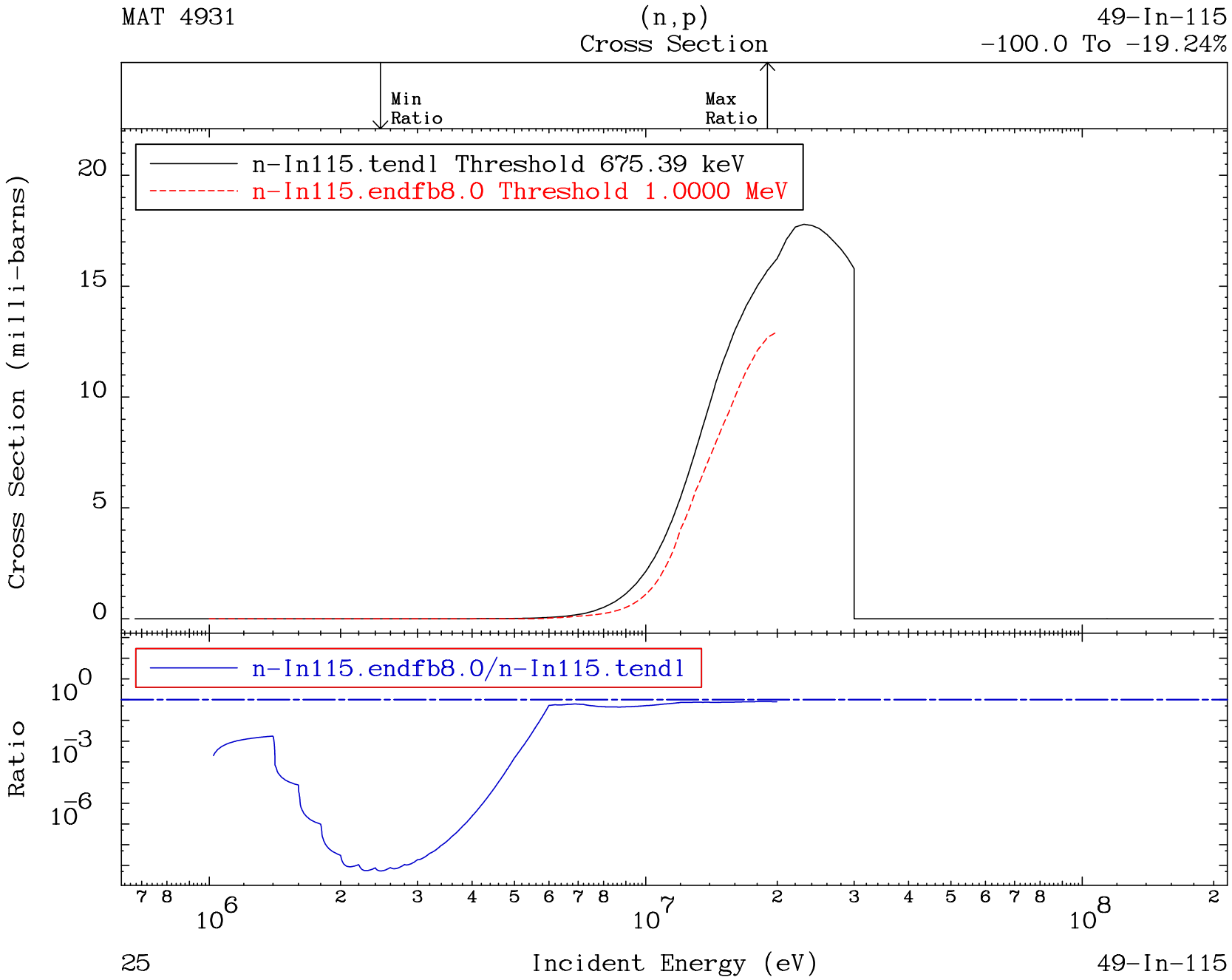

MAT 4931
MT= 61 (n,n') Level
Cross Section
49-In-115
-100.0 To 778.6 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.2987 MeV
n-In115.endfb8.0 Threshold 1.4614 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
49-In-115

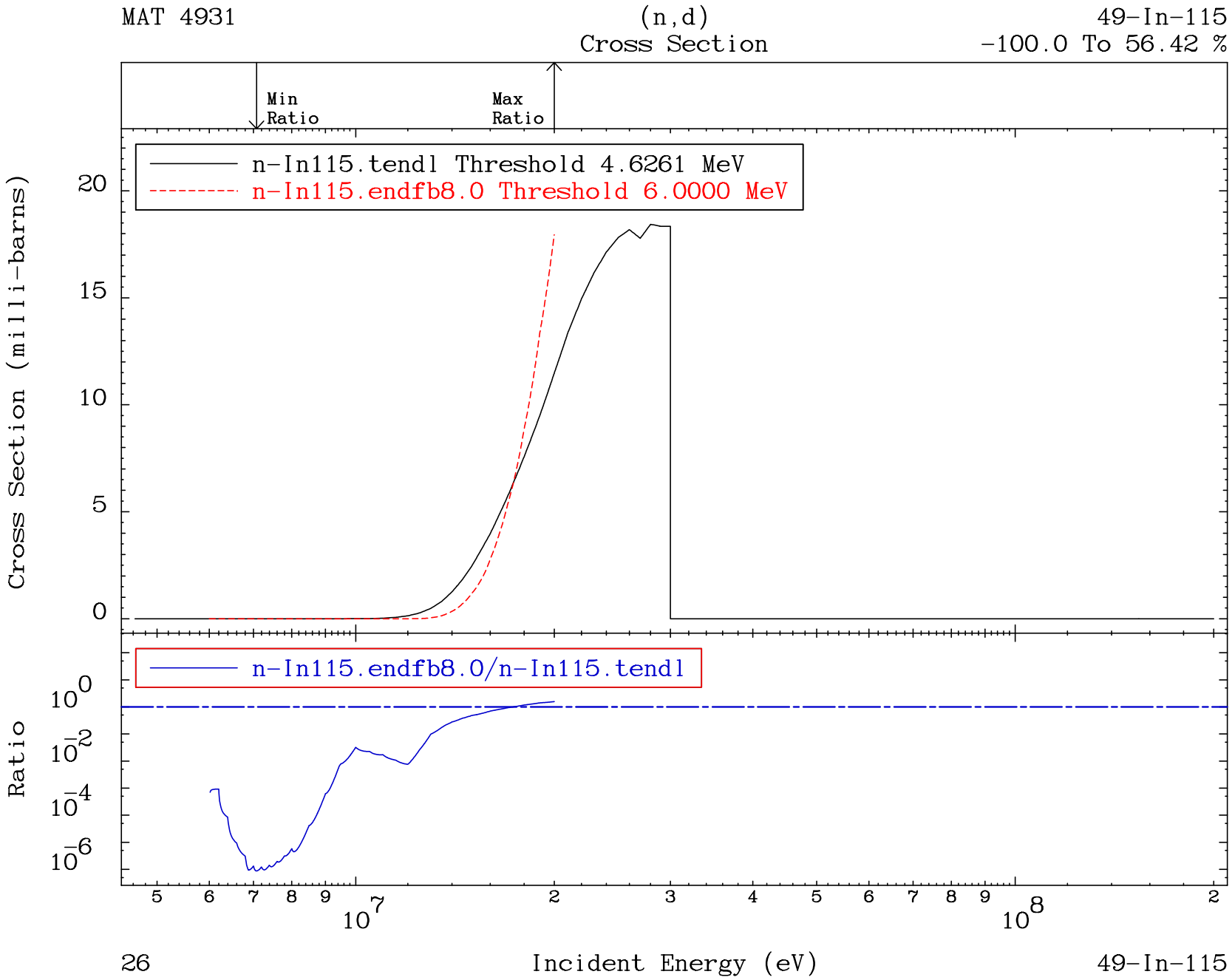

MAT 4931
MT= 62 (n,n') Level
Cross Section
49-In-115
-100.0 To 105.4 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.3019 MeV
n-In115.endfb8.0 Threshold 1.4753 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
49-In-115

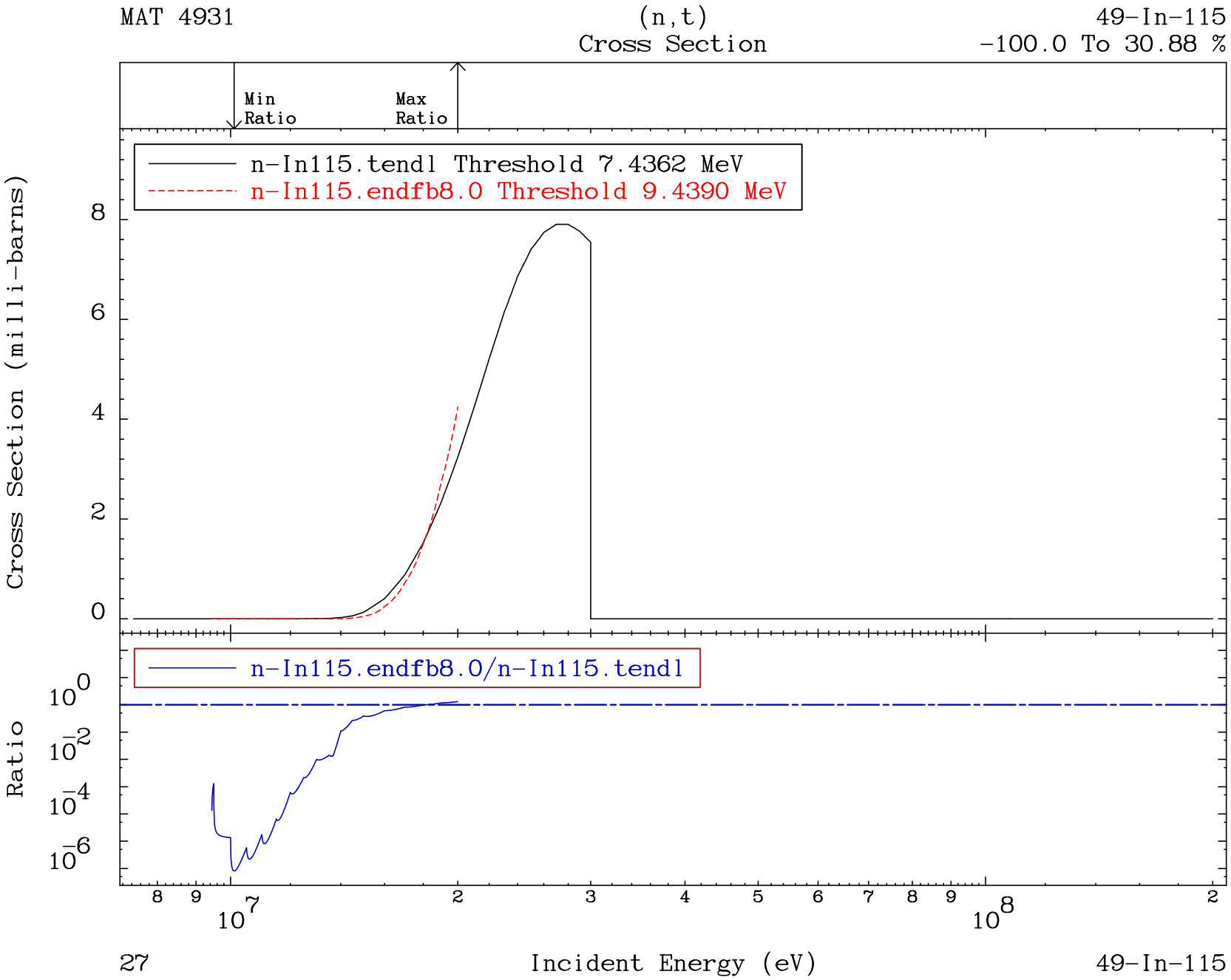

MAT 4931
MT= 63 (n,n') Level
Cross Section
49-In-115
-100.0 To 655.9 %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.3593 MeV
n-In115.endfb8.0 Threshold 1.4988 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
49-In-115

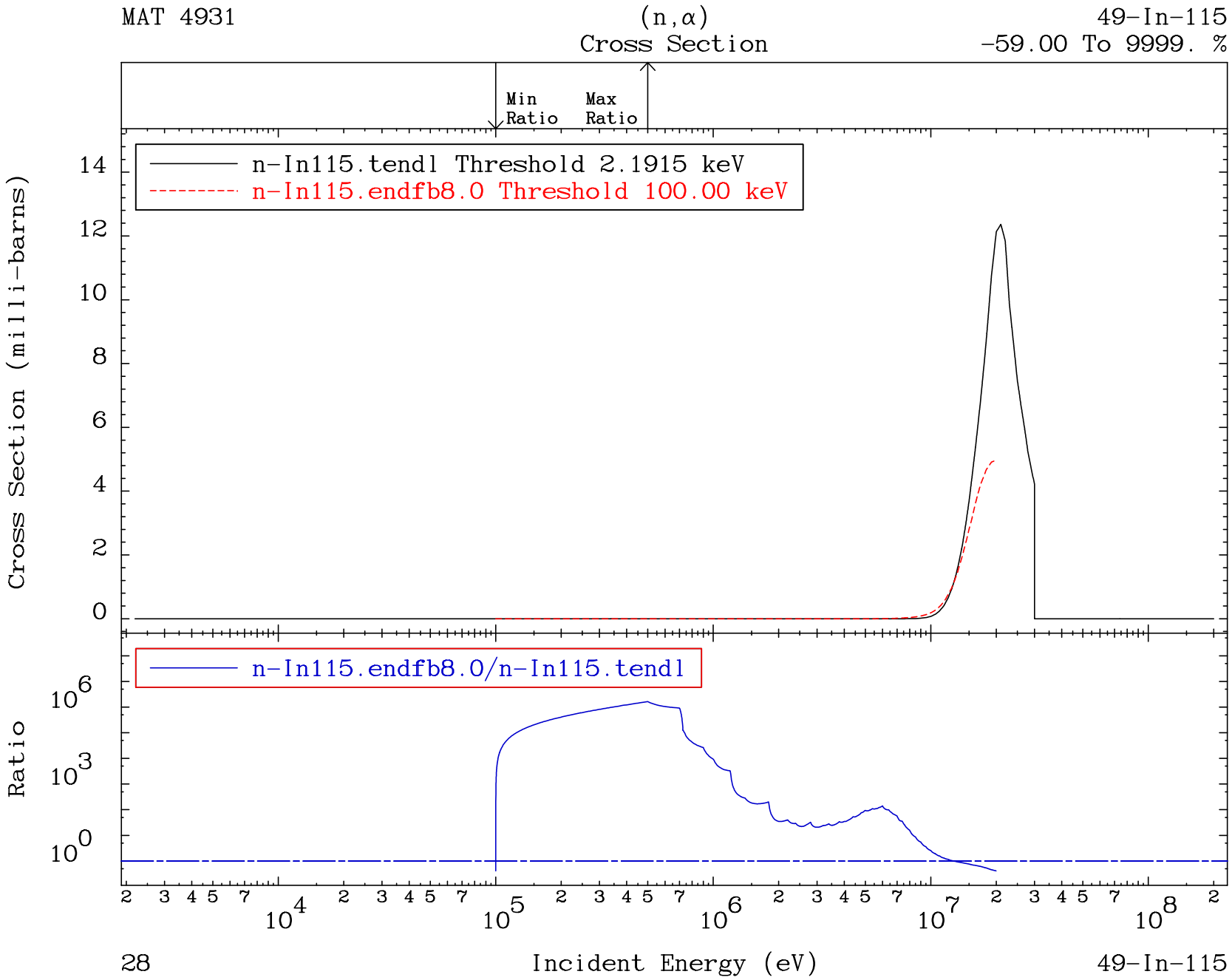

MAT 4931
(n,n') Continuum
Cross Section
49-In-115
-63.25 To 1543. %
Max
Ratio
Min
Ratio
n-In115.tendl Threshold 1.9889 MeV
n-In115.endfb8.0 Threshold 1.5132 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
49-In-115

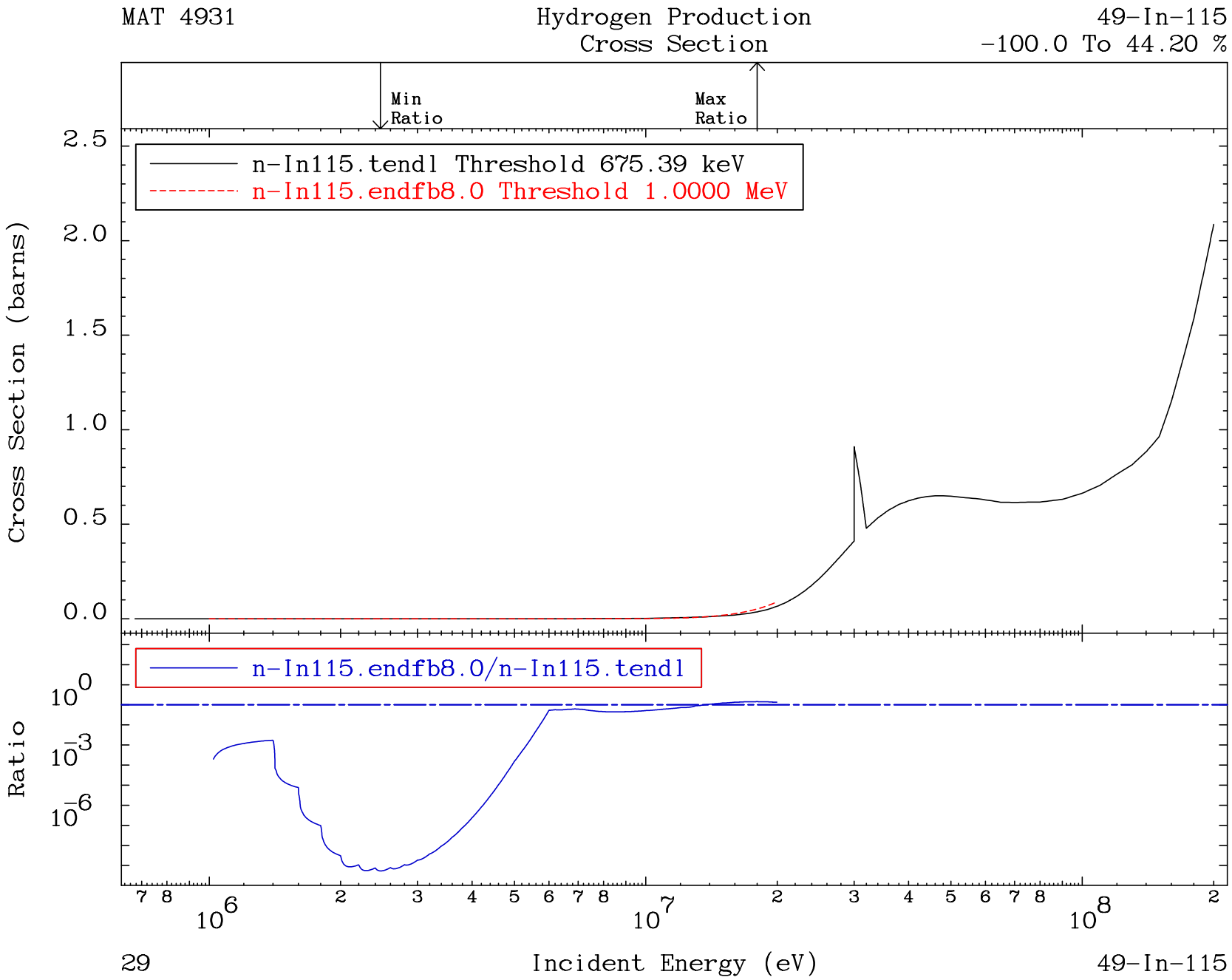

MAT 4931
(n,γ)
Cross Section
49-In-115
-99.98 To 9999. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
24
49-In-115

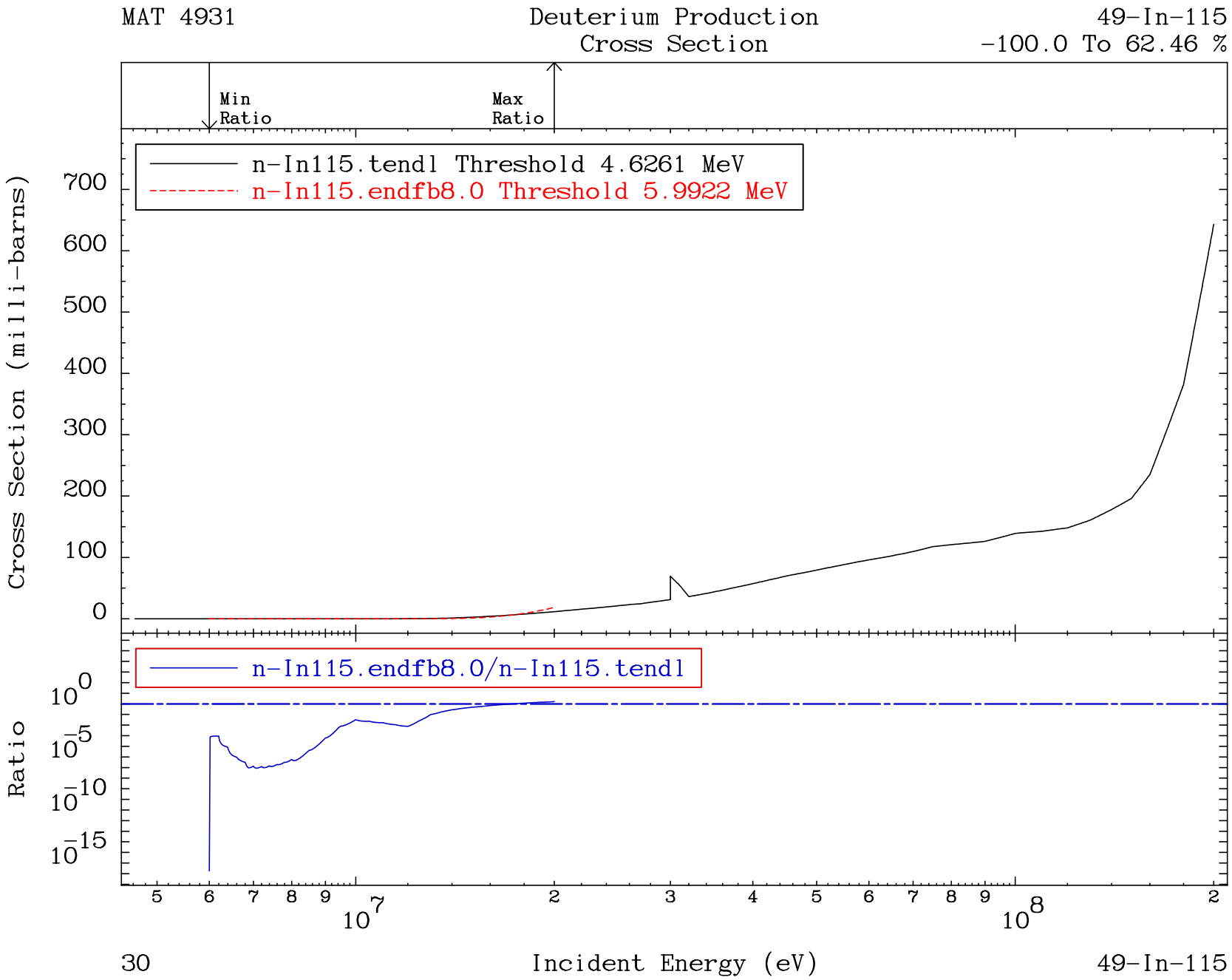

MAT 4931
(n,p)
Cross Section
49-In-115
-100.0 To -19.24%
Min Ratio
Max Ratio
n-In115.tendl Threshold 675.39 keV
n-In115.endfb8.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
49-In-115

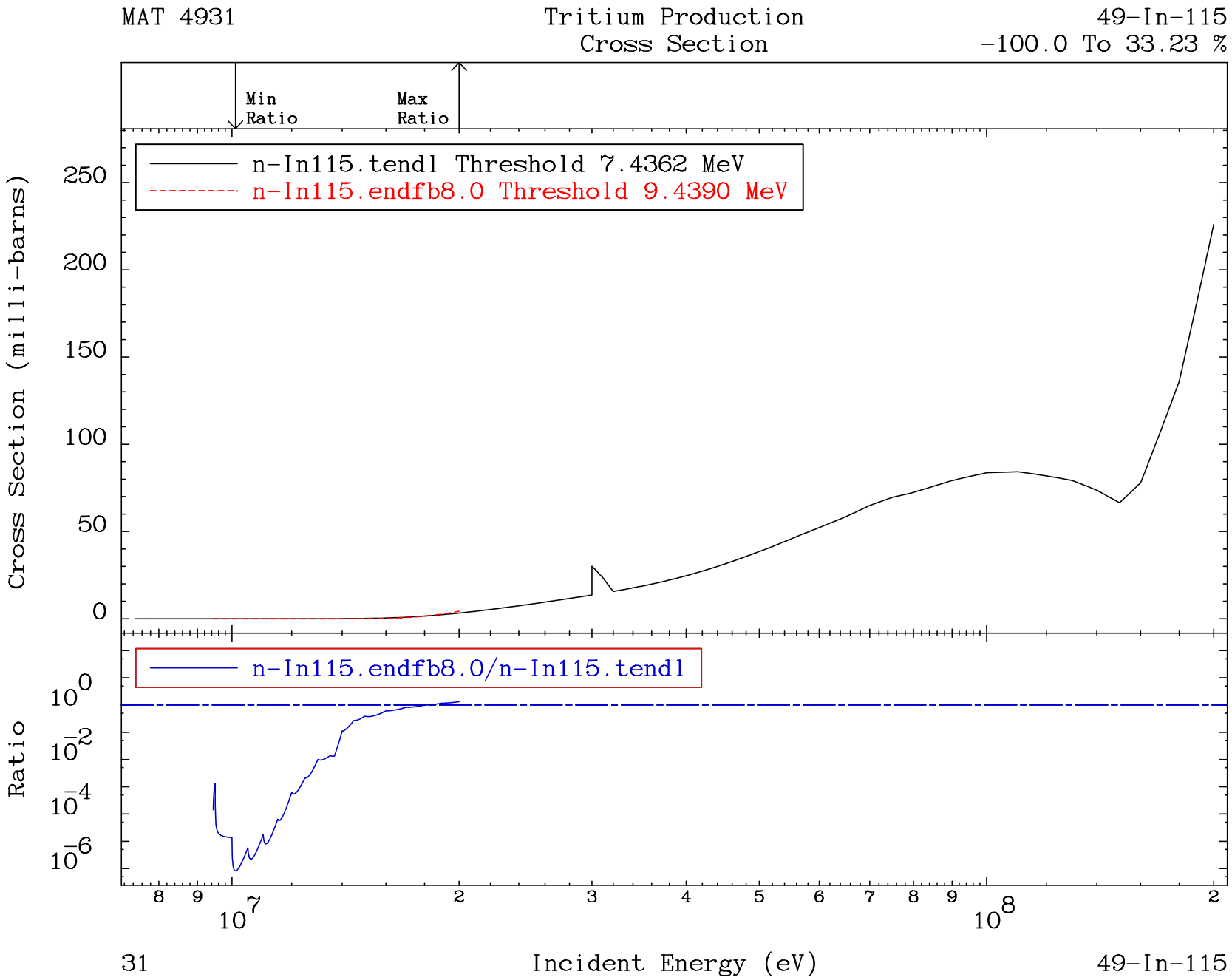

MAT 4931
(n,d)
Cross Section
49-In-115
-100.0 To 56.42 %
Min Ratio
Max Ratio
n-In115.tendl Threshold 4.6261 MeV
n-In115.endfb8.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-2
10^-4
10^-6
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
49-In-115

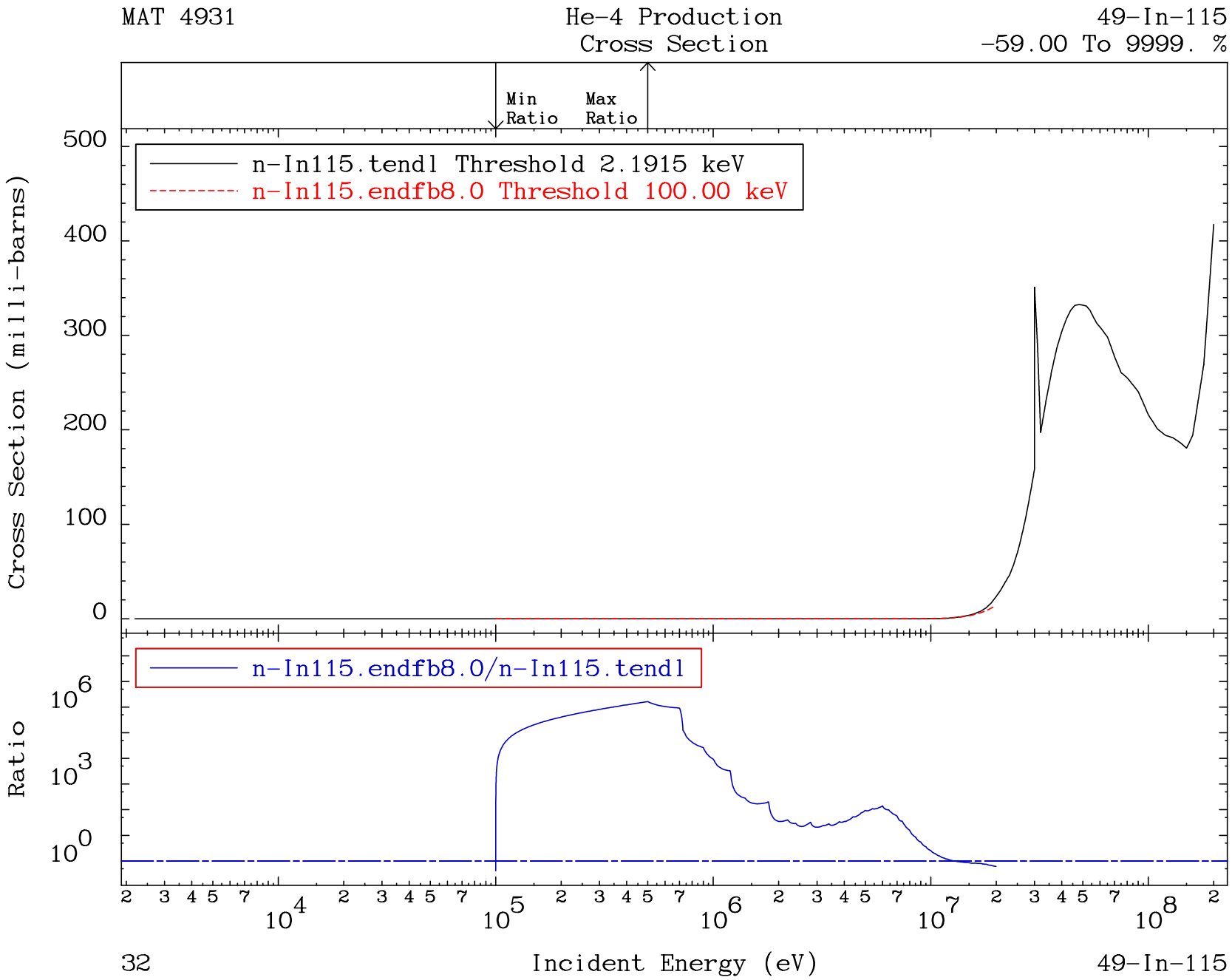

MAT 4931
(n,t)
Cross Section
49-In-115
-100.0 To 30.88 %
Min Ratio
Max Ratio
n-In115.tendl Threshold 7.4362 MeV
n-In115.endfb8.0 Threshold 9.4390 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-2
10^-4
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
49-In-115

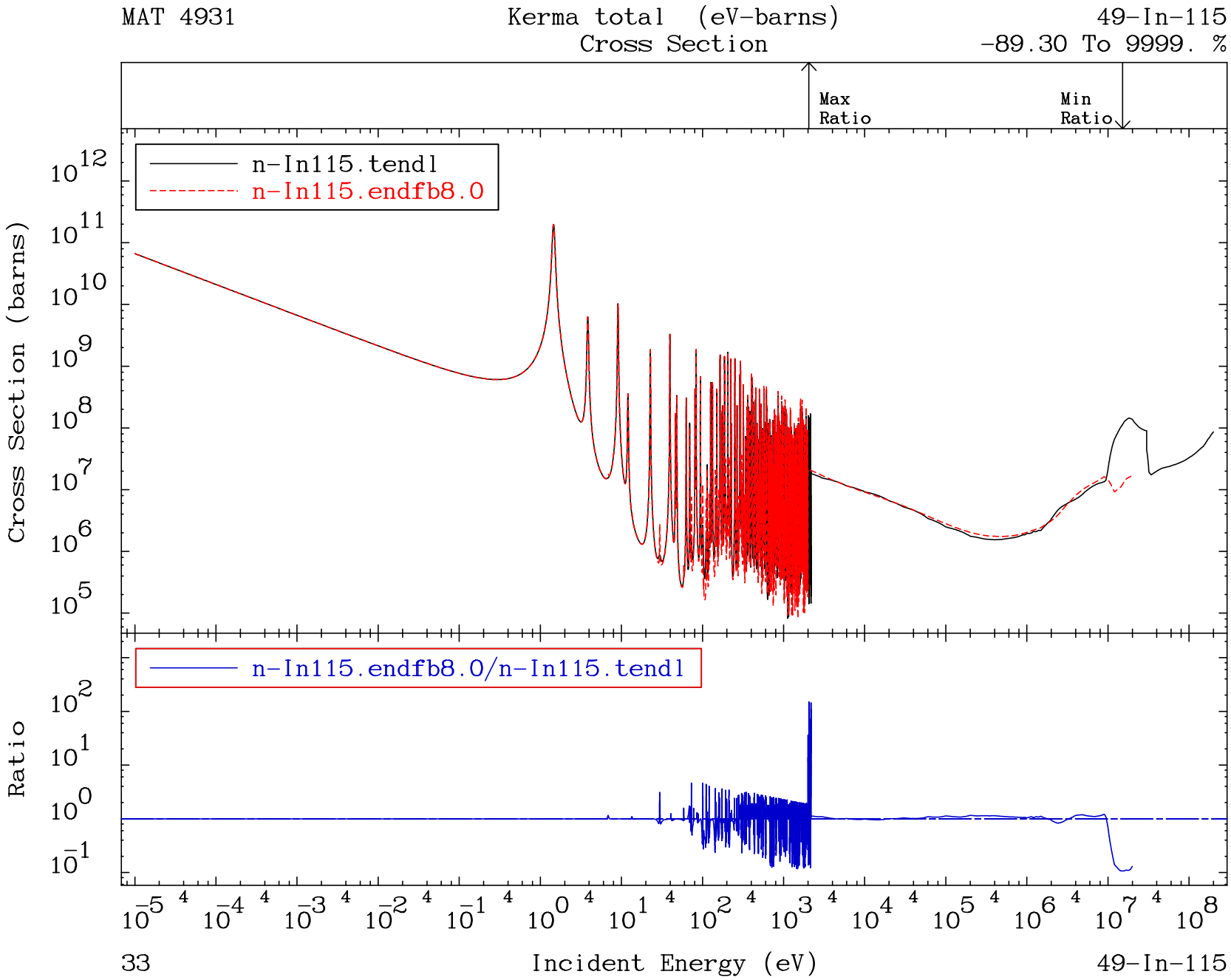

MAT 4931
(n,α)
Cross Section
49-In-115
-59.00 To 9999. %
Min Ratio
Max Ratio
n-In115.tendl Threshold 2.1915 keV
n-In115.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^3
10^6
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
28
Incident Energy (eV)
49-In-115

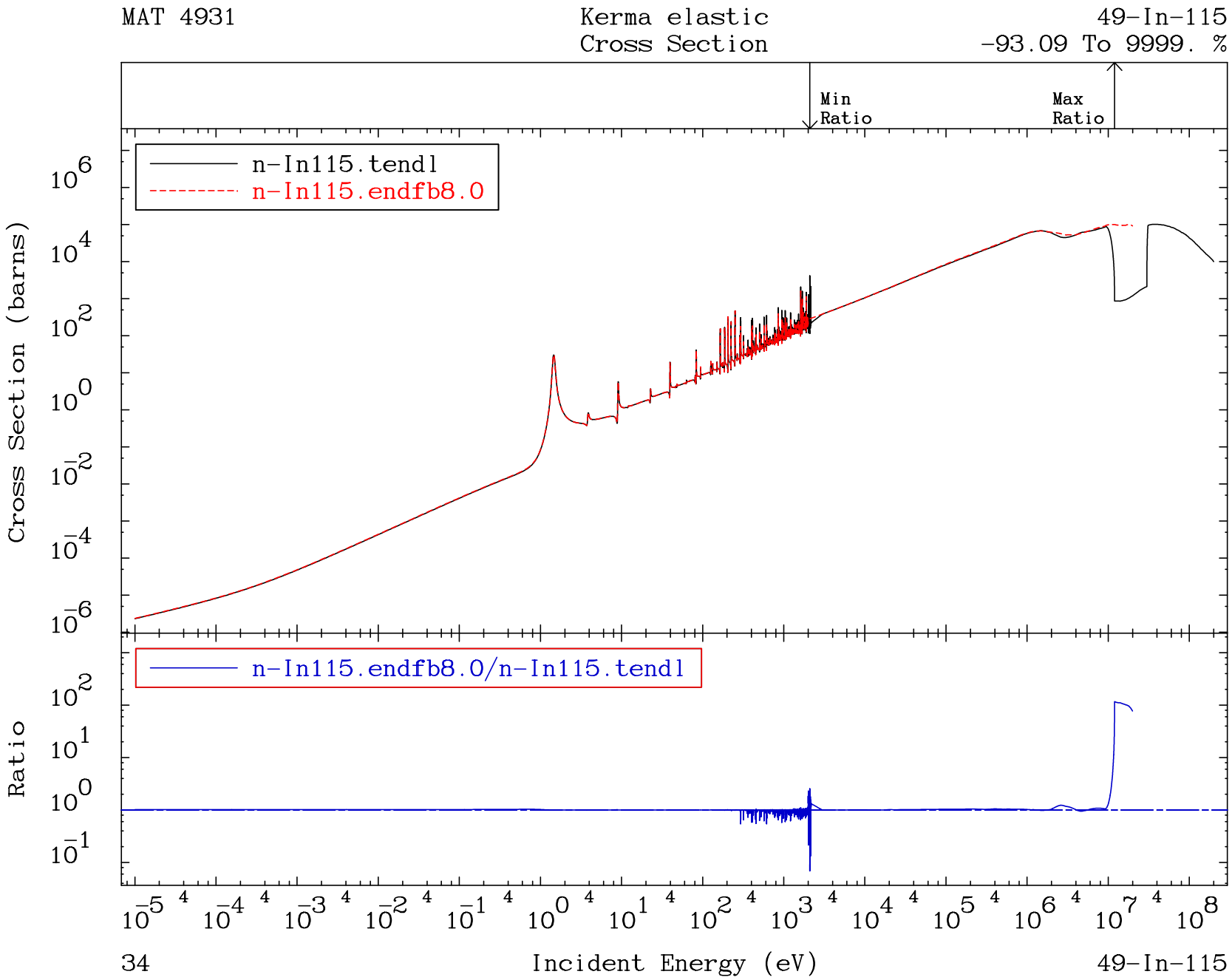

MAT 4931
Hydrogen Production
Cross Section
49-In-115
-100.0 To 44.20 %
Min
Ratio
Max
Ratio
n-In115.tendl Threshold 675.39 keV
n-In115.endfb8.0 Threshold 1.0000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-3
10^-6
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
29
Incident Energy (eV)
49-In-115

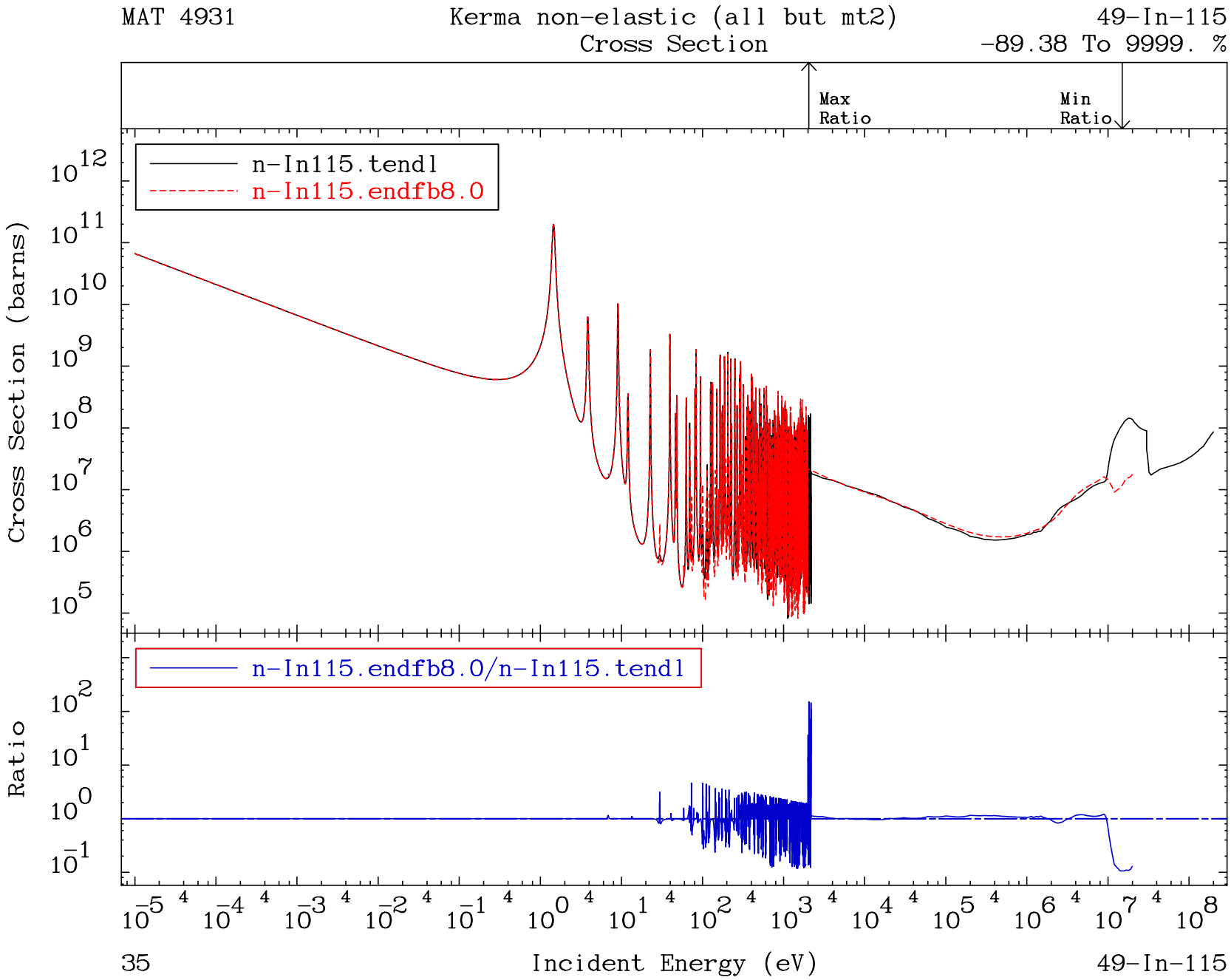

MAT 4931
Deuterium Production
Cross Section
49-In-115
-100.0 To 62.46 %
Min Ratio
Max Ratio
n-In115.tendl Threshold 4.6261 MeV
n-In115.endfb8.0 Threshold 5.9922 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-5
10^-10
10^-15
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
49-In-115

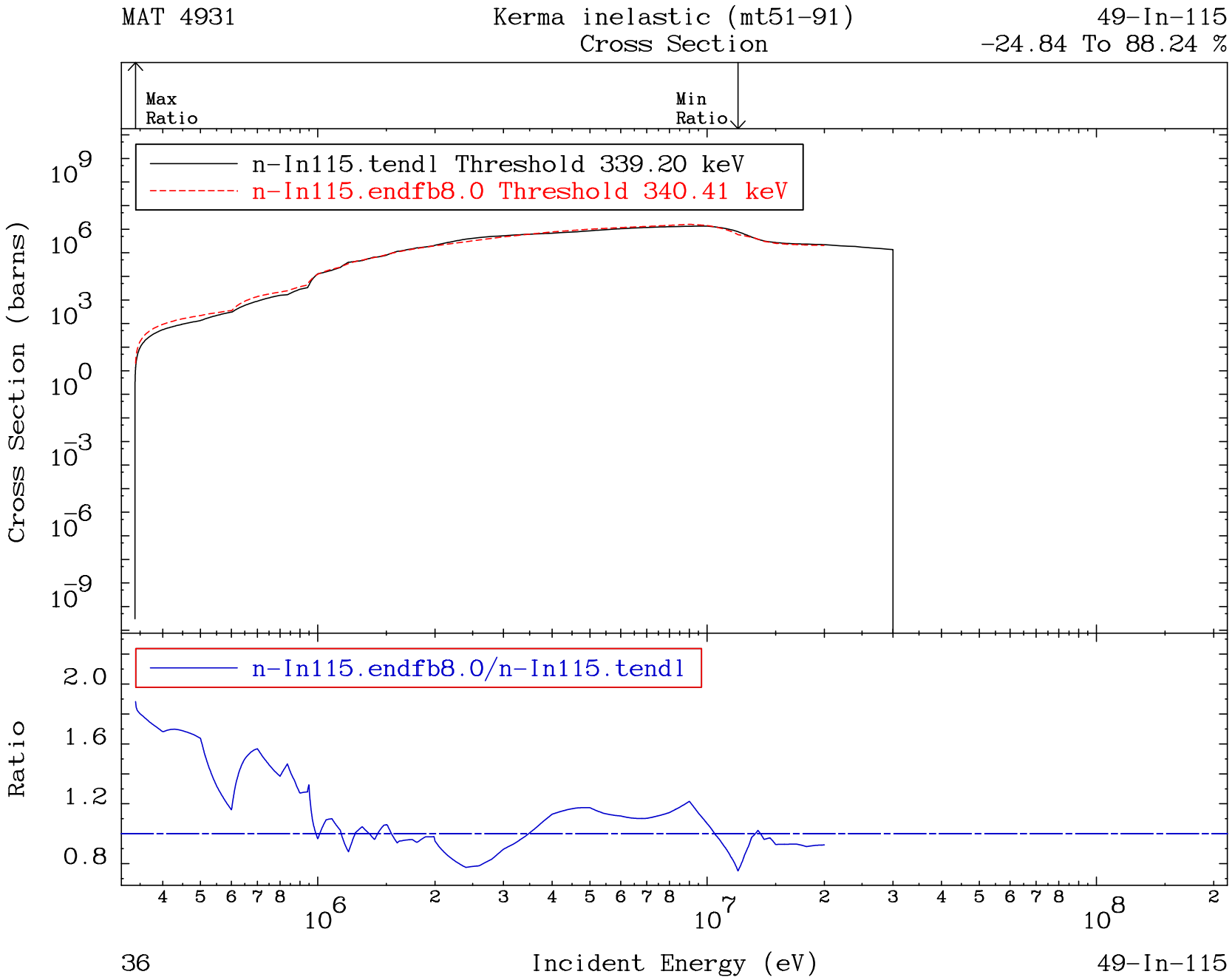

MAT 4931
Tritium Production
Cross Section
49-In-115
-100.0 To 33.23 %
Min Ratio
Max Ratio
n-In115.tendl Threshold 7.4362 MeV
n-In115.endfb8.0 Threshold 9.4390 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^0
10^-2
10^-4
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
49-In-115

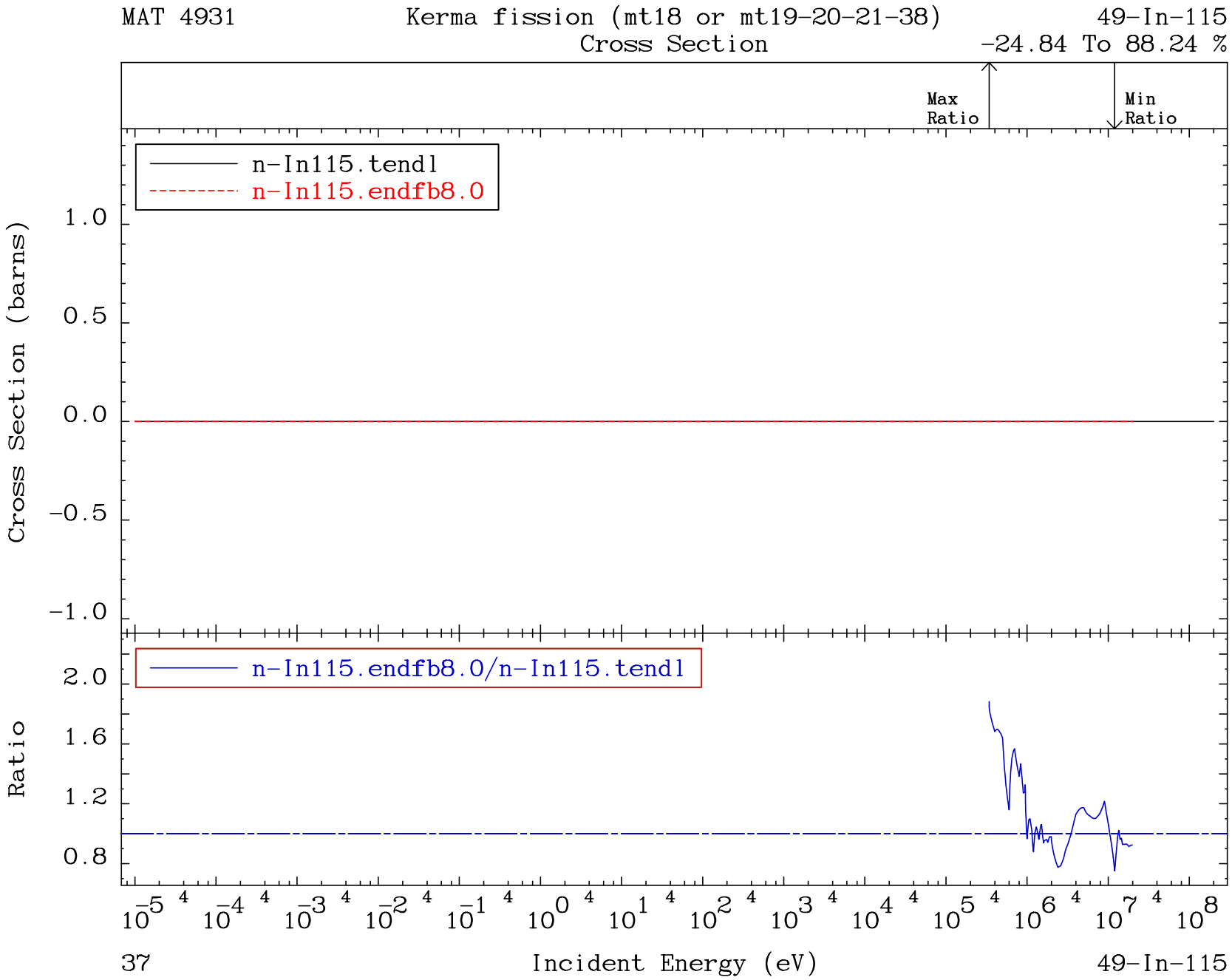

MAT 4931
He-4 Production
Cross Section
49-In-115
-59.00 To 9999. %
Min Ratio
Max Ratio
n-In115.tendl Threshold 2.1915 keV
n-In115.endfb8.0 Threshold 100.00 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
32
Incident Energy (eV)
49-In-115

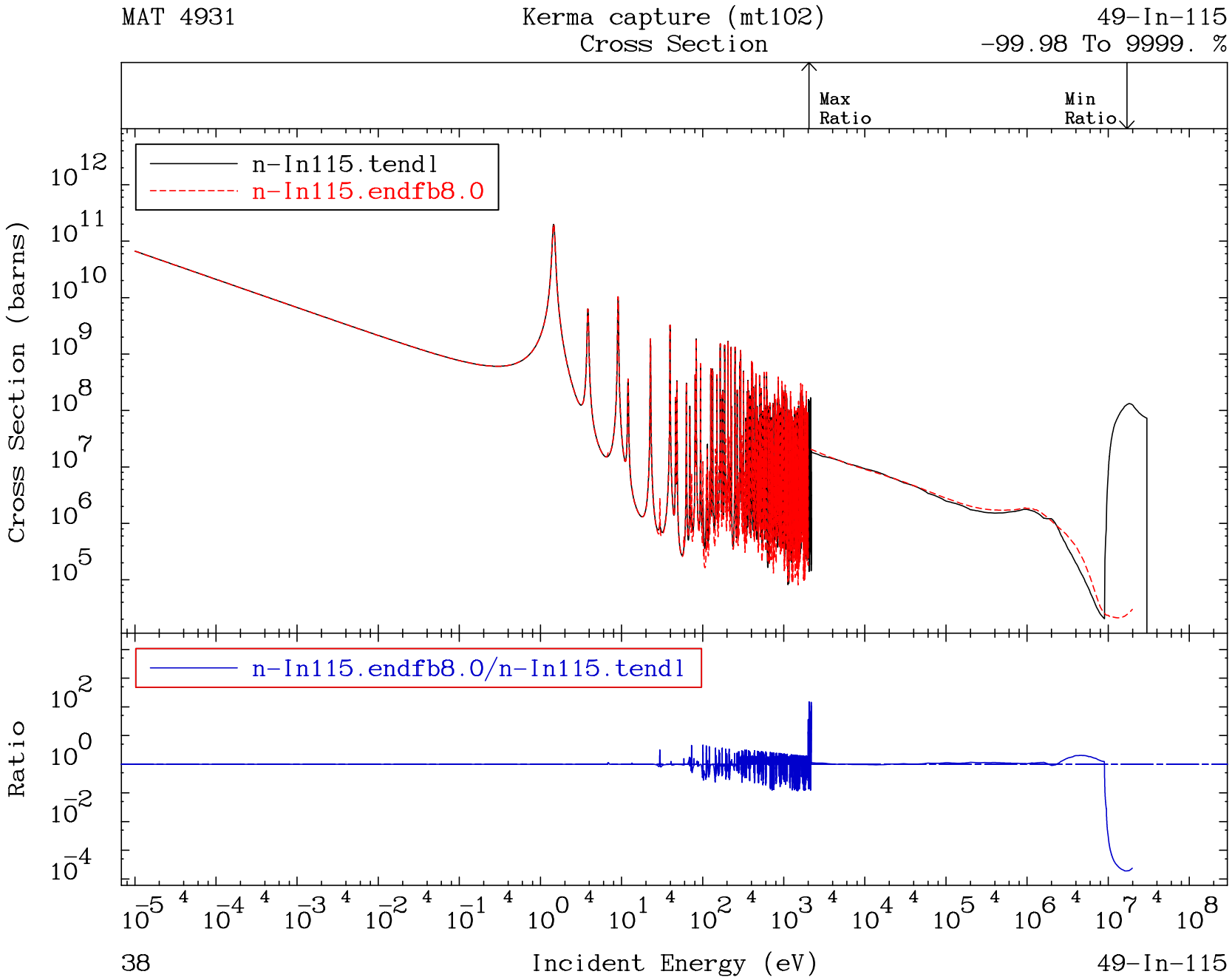

MAT 4931
Kerma total (eV-barns)
Cross Section
49-In-115
-89.30 To 9999. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
33
49-In-115

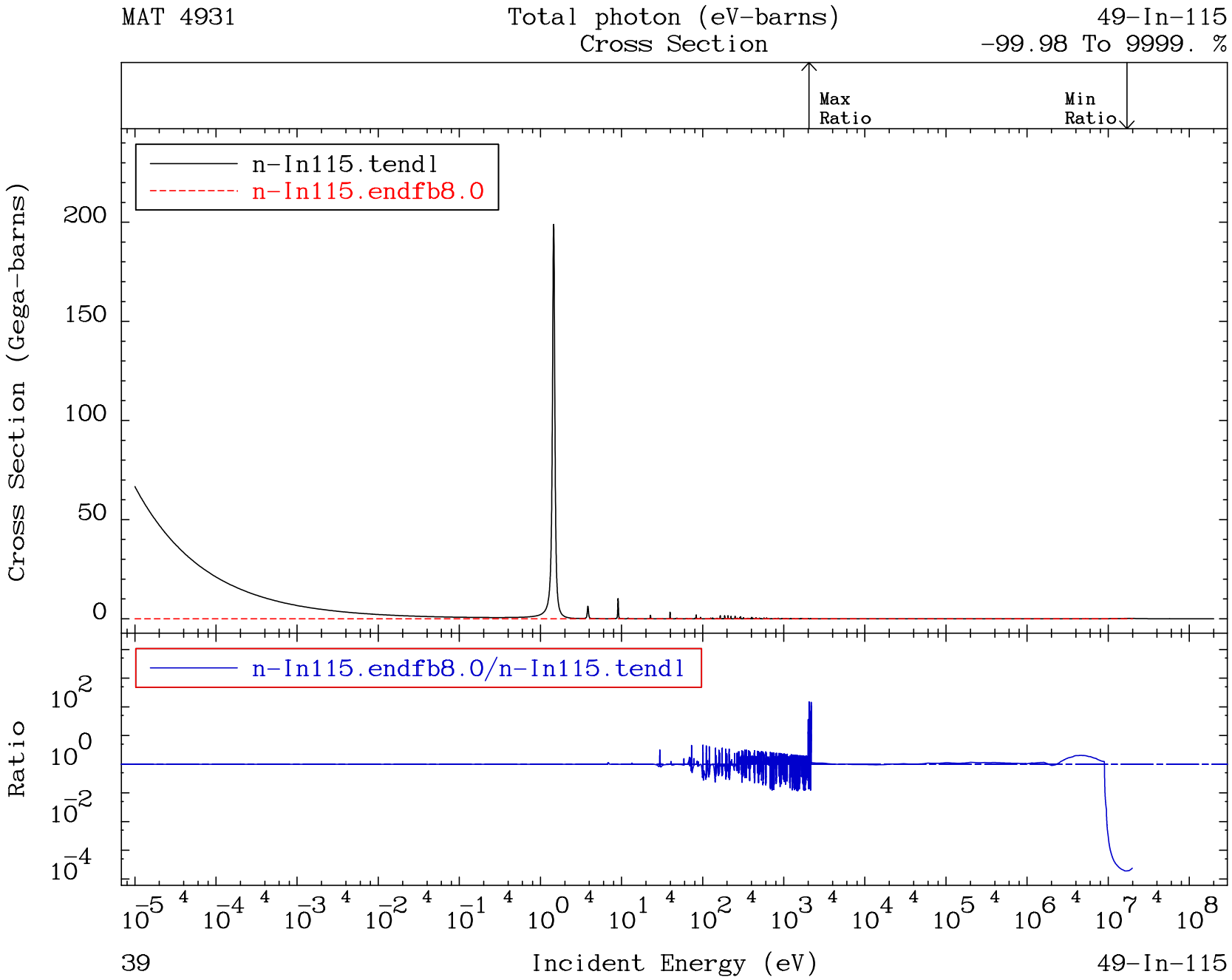

MAT 4931
Kerma elastic
Cross Section
49-In-115
-93.09 To 9999. %
Min
Ratio
Max
Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
34
49-In-115

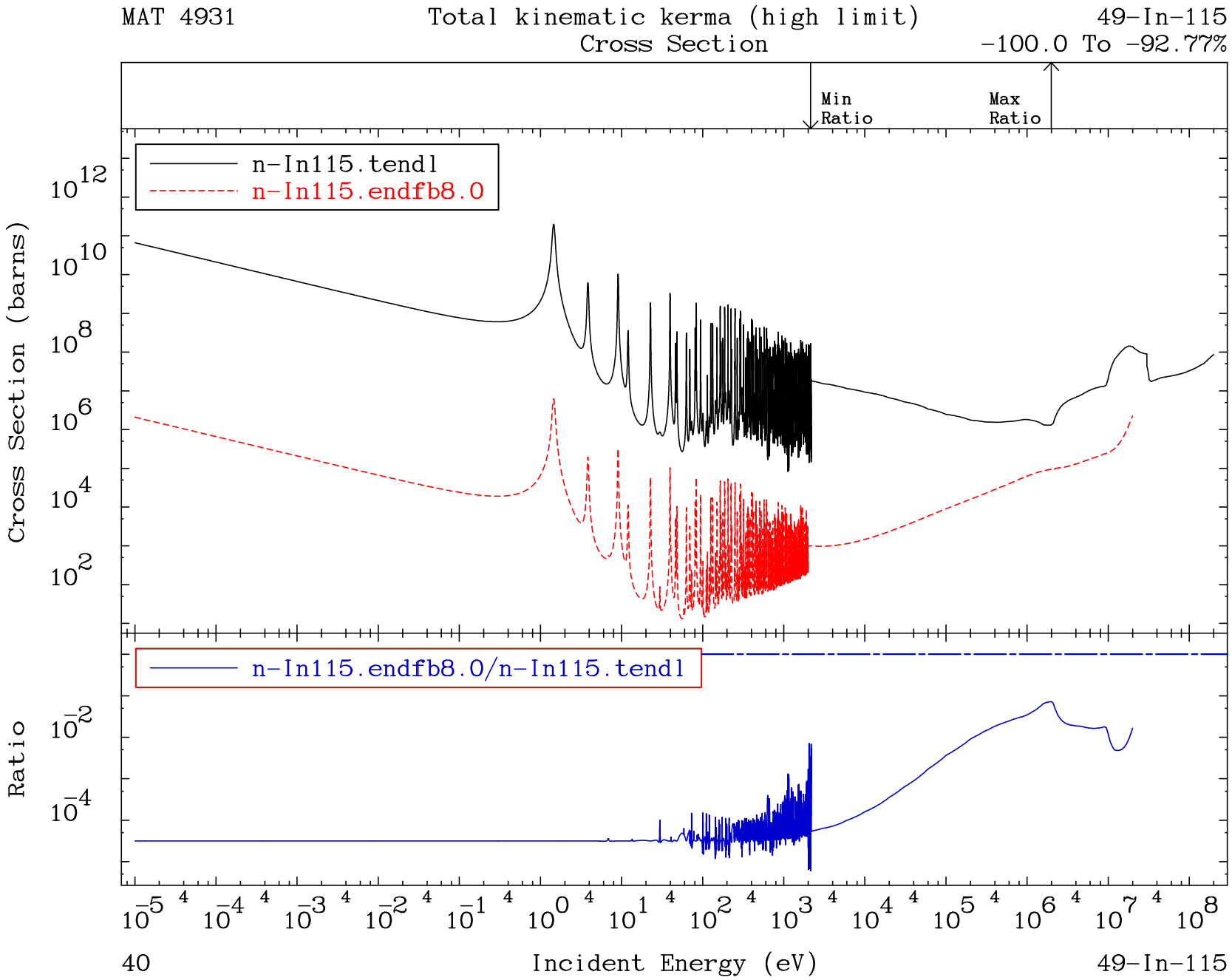

MAT 4931
Kerma non-elastic (all but mt2)
Cross Section
49-In-115
-89.38 To 9999. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
35
49-In-115

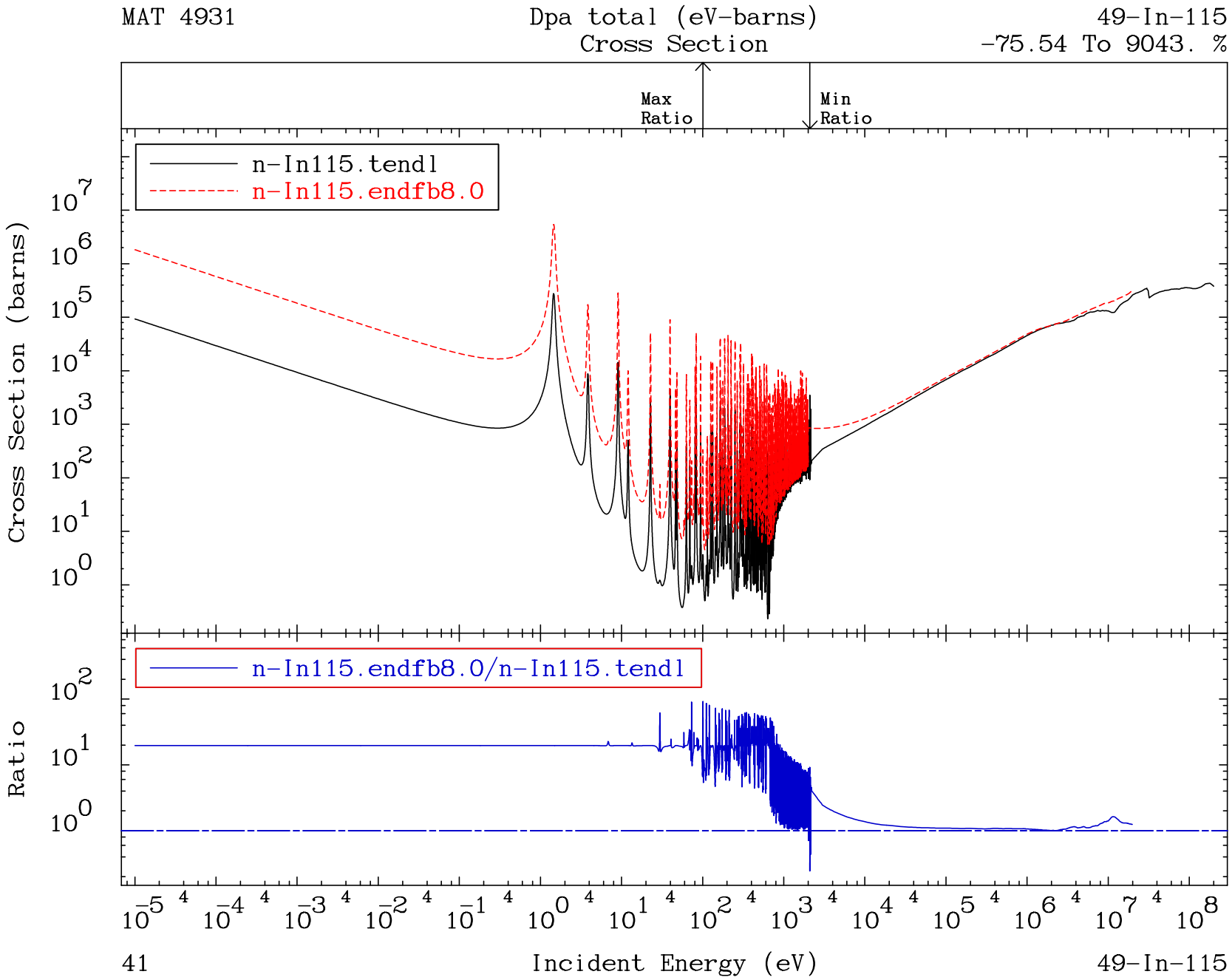

MAT 4931
Kerma inelastic (mt51-91)
Cross Section
49-In-115
-24.84 To 88.24 %
Max Ratio
Min Ratio
n-In115.tendl Threshold 339.20 keV
n-In115.endfb8.0 Threshold 340.41 keV
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
36
49-In-115

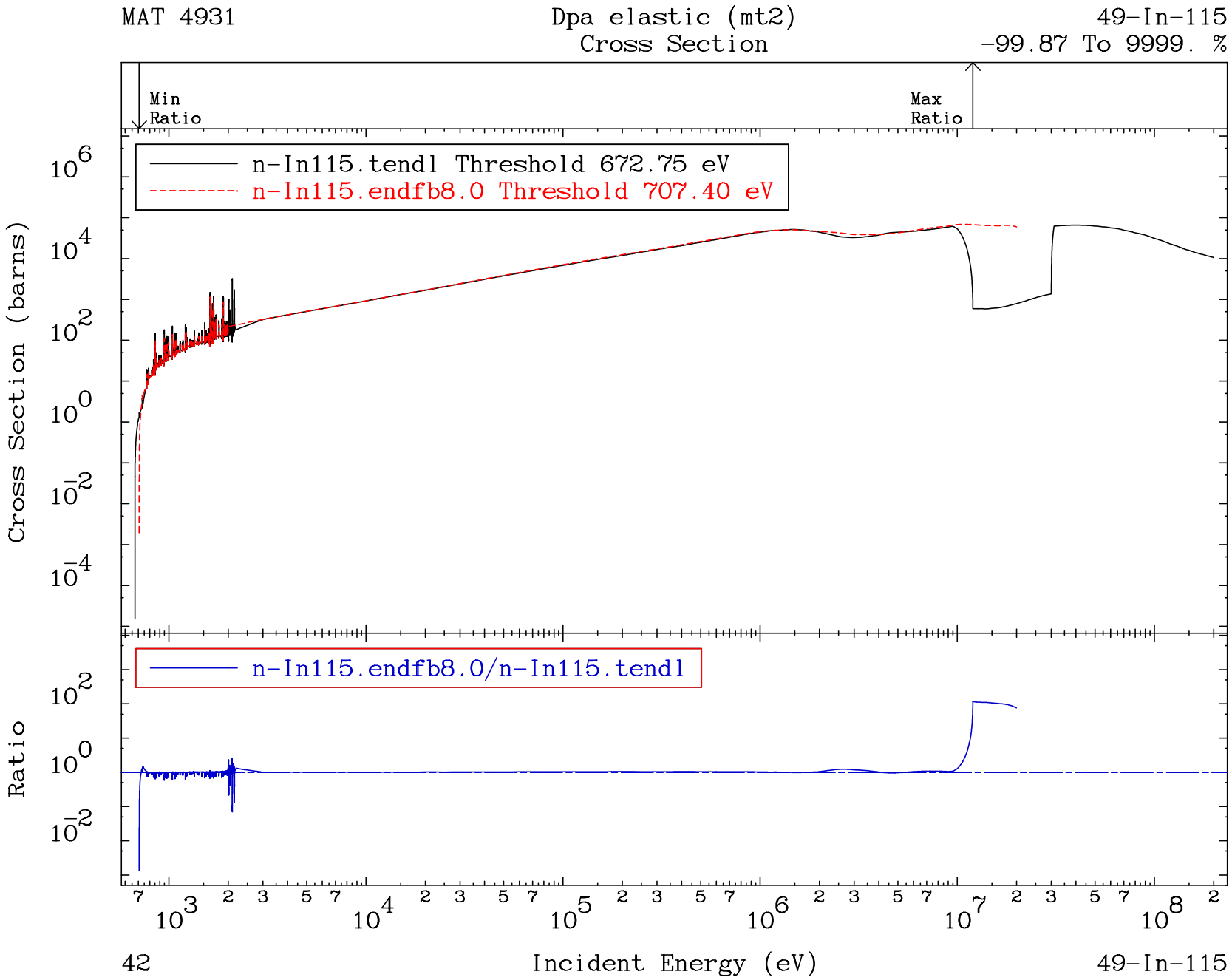

MAT 4931
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
49-In-115
-24.84 To 88.24 %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-In115.endfb8.0/n-In115.tendl
Ratio
2.0
1.6
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
49-In-115

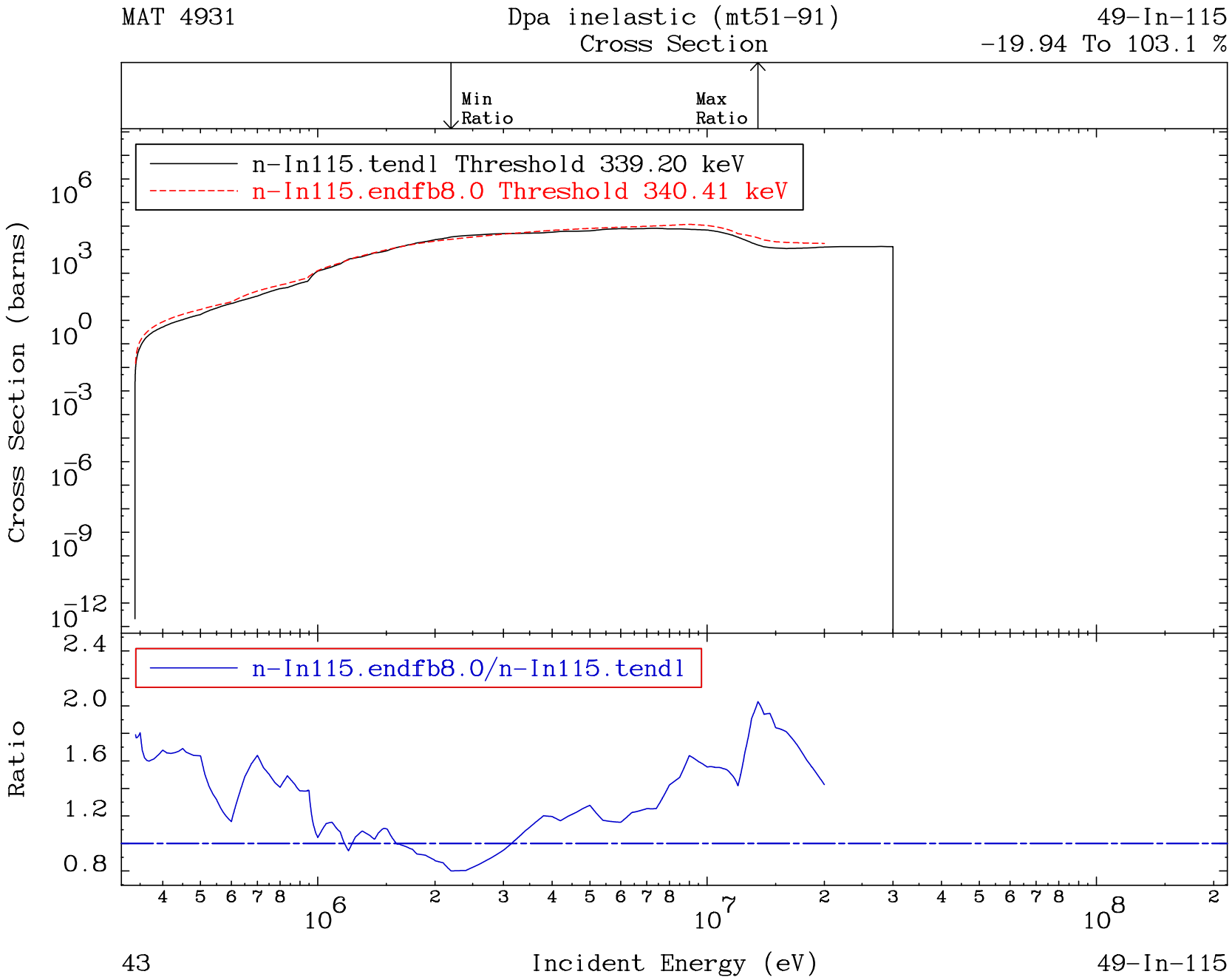

MAT 4931
Kerma capture (mt102)
Cross Section
49-In-115
-99.98 To 9999. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
38
49-In-115

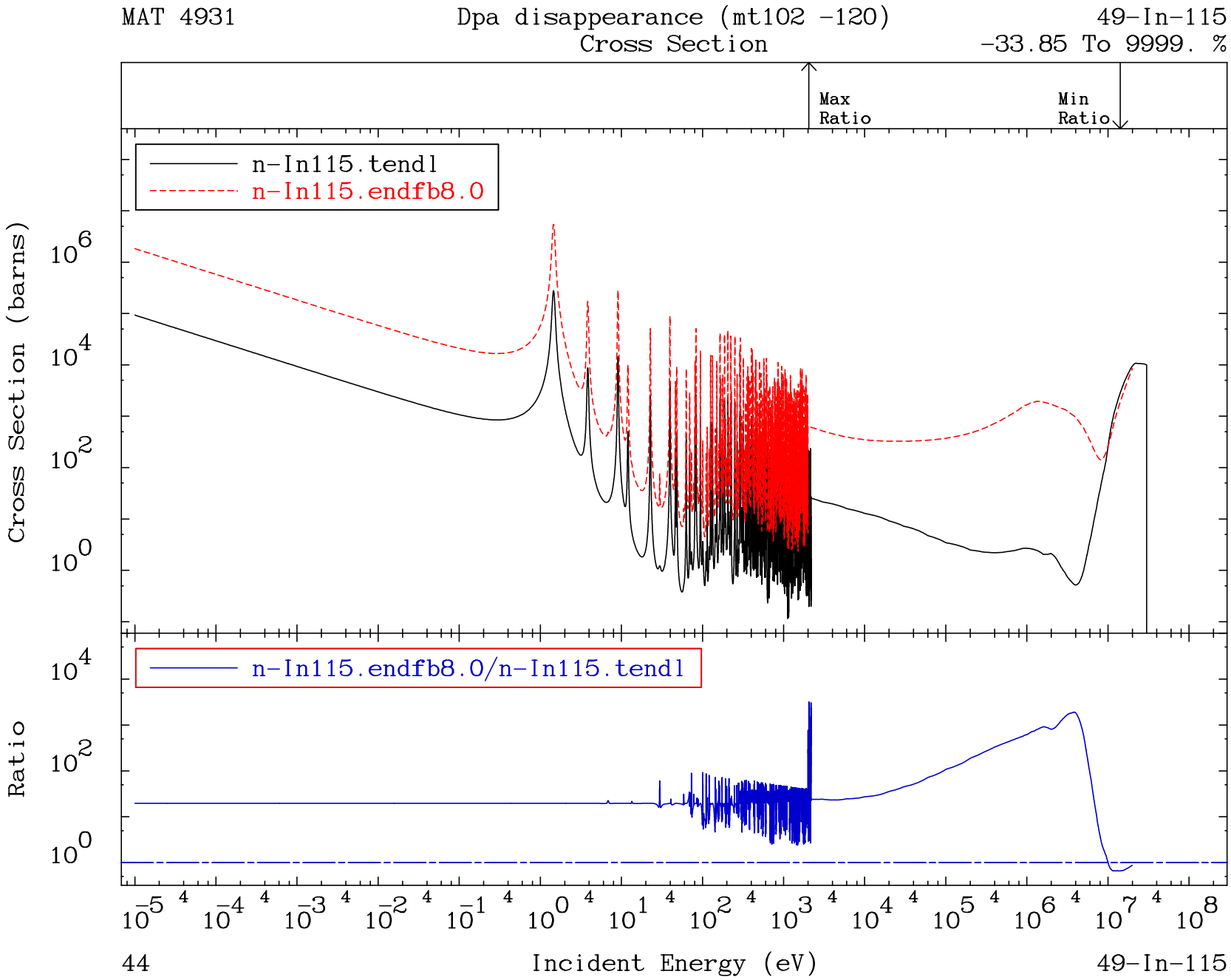

MAT 4931
Total photon (eV-barns)
Cross Section
49-In-115
-99.98 To 9999. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (Giga-barns)
200
150
100
50
0
n-In115.endfb8.0/n-In115.tendl
Ratio
10^2
10^0
10^-2
10^-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
49-In-115


MAT 4931
Total kinematic kerma (high limit)
Cross Section
49-In-115
-100.0 To -92.77%
Min Ratio
Max Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
40
49-In-115


MAT 4931
Dpa total (eV-barns)
Cross Section
49-In-115
-75.54 To 9043. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
41
49-In-115


MAT 4931
Dpa elastic (mt2)
Cross Section
49-In-115
-99.87 To 9999. %
Min Ratio
Max Ratio
n-In115.tendl Threshold 672.75 eV
n-In115.endfb8.0 Threshold 707.40 eV
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
42
49-In-115


MAT 4931
Dpa inelastic (mt51-91)
Cross Section
49-In-115
-19.94 To 103.1 %
Min Ratio
Max Ratio
n-In115.tendl Threshold 339.20 keV
n-In115.endfb8.0 Threshold 340.41 keV
Cross Section (barns)
n-In115.endfb8.0/n-In115.tendl
Ratio
Incident Energy (eV)
43
49-In-115


MAT 4931
Dpa disappearance (mt102 -120)
Cross Section
49-In-115
-33.85 To 9999. %
Max Ratio
Min Ratio
n-In115.tendl
n-In115.endfb8.0
Cross Section (barns)
Ratio
n-In115.endfb8.0/n-In115.tendl
Incident Energy (eV)
44
49-In-115