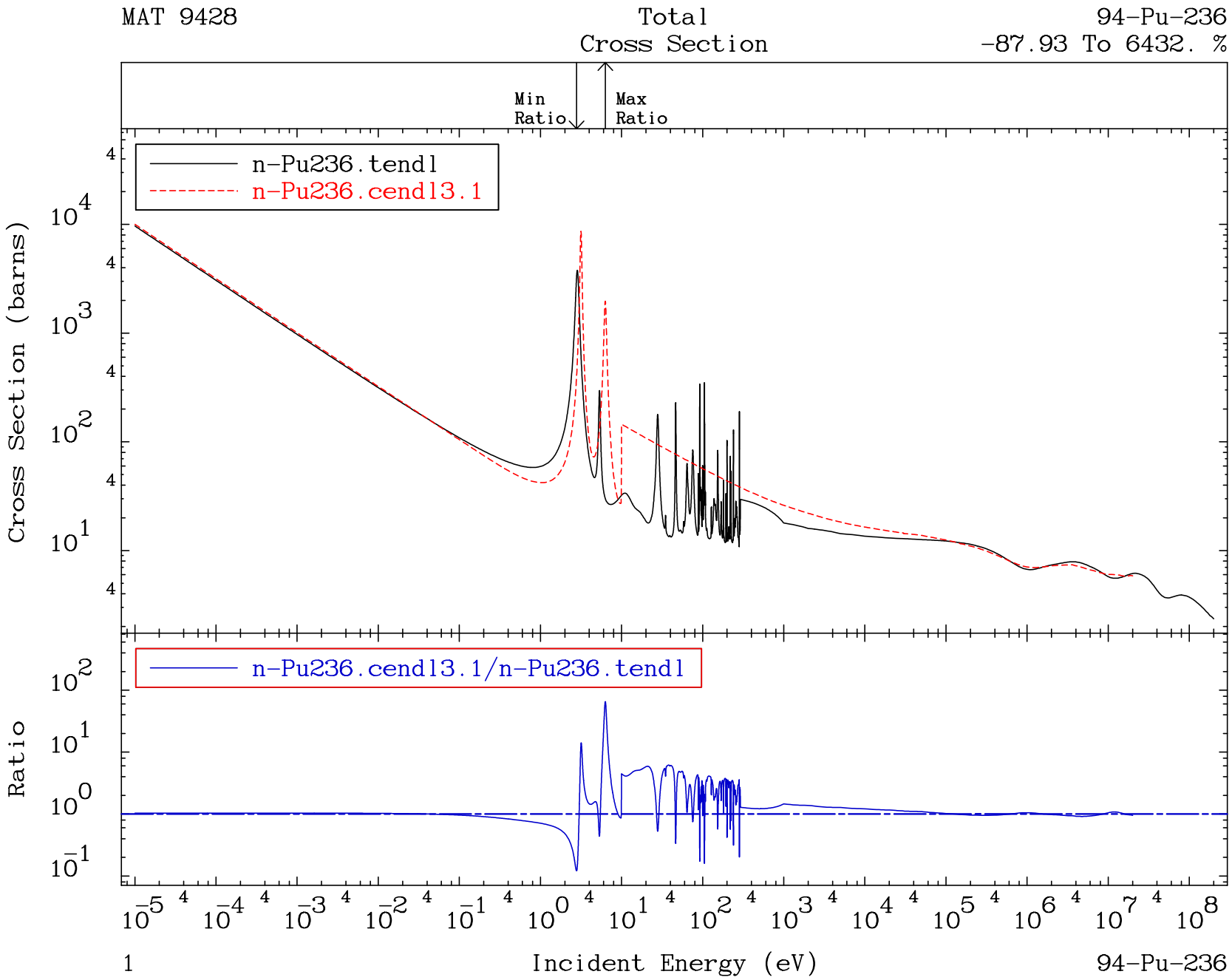
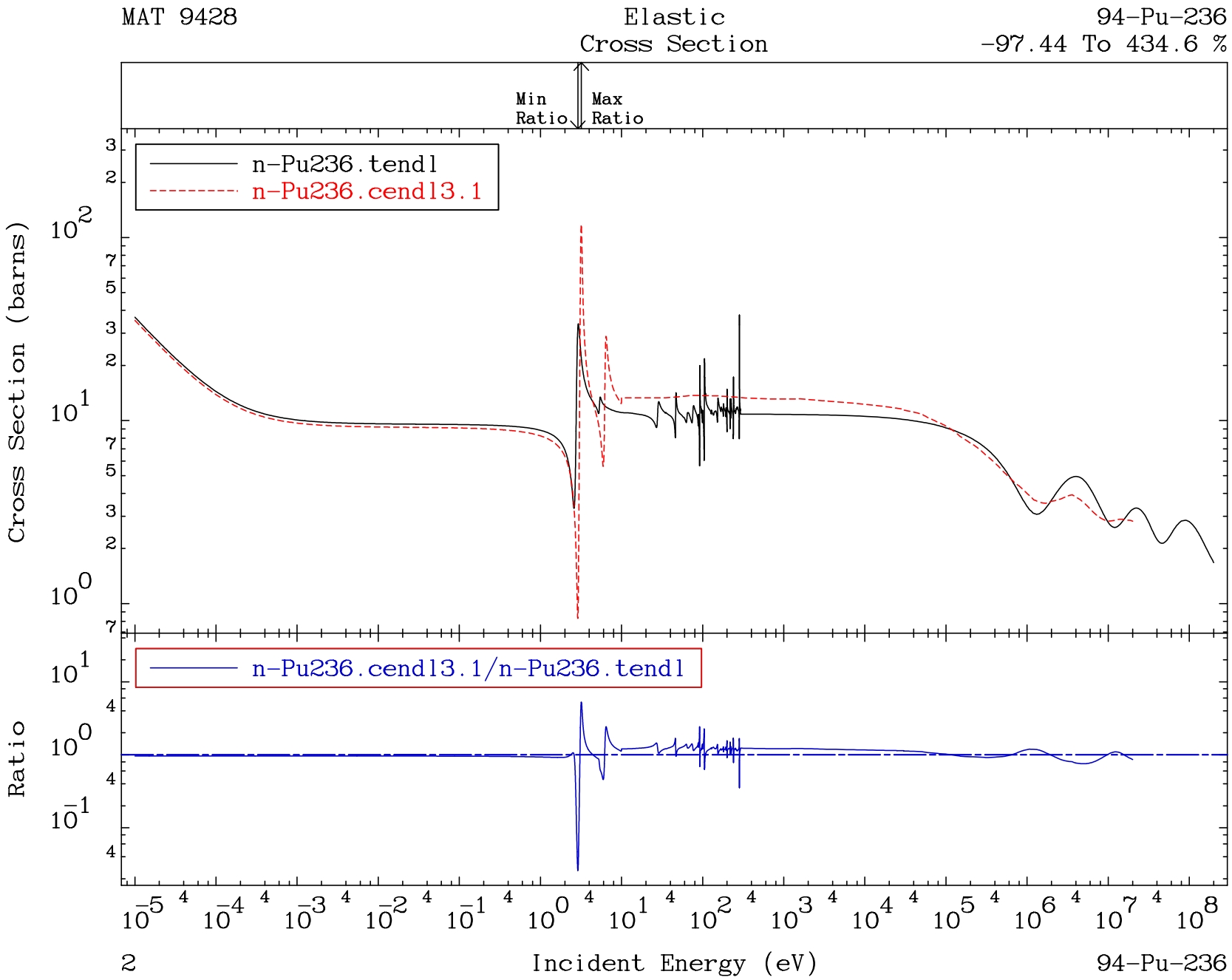
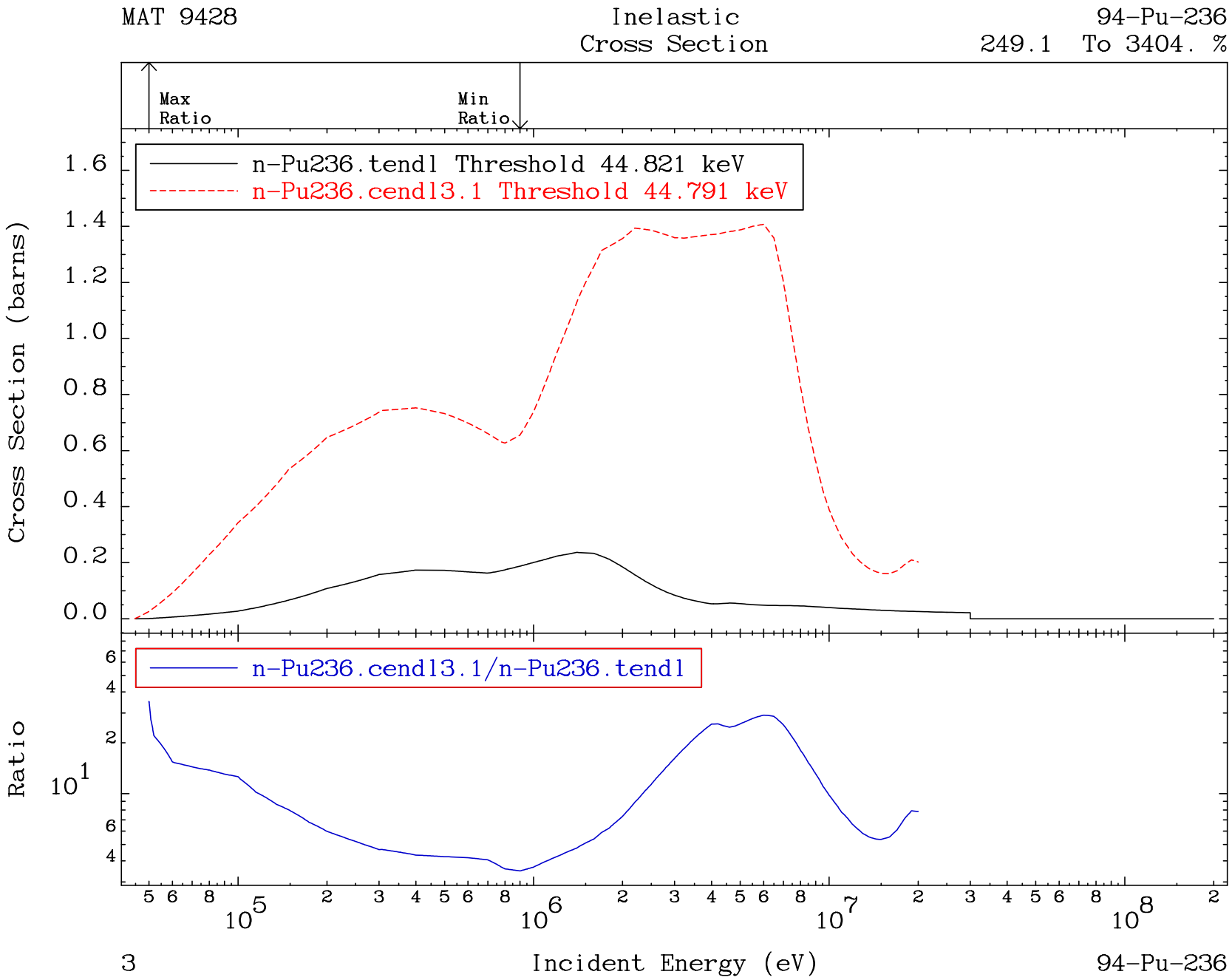
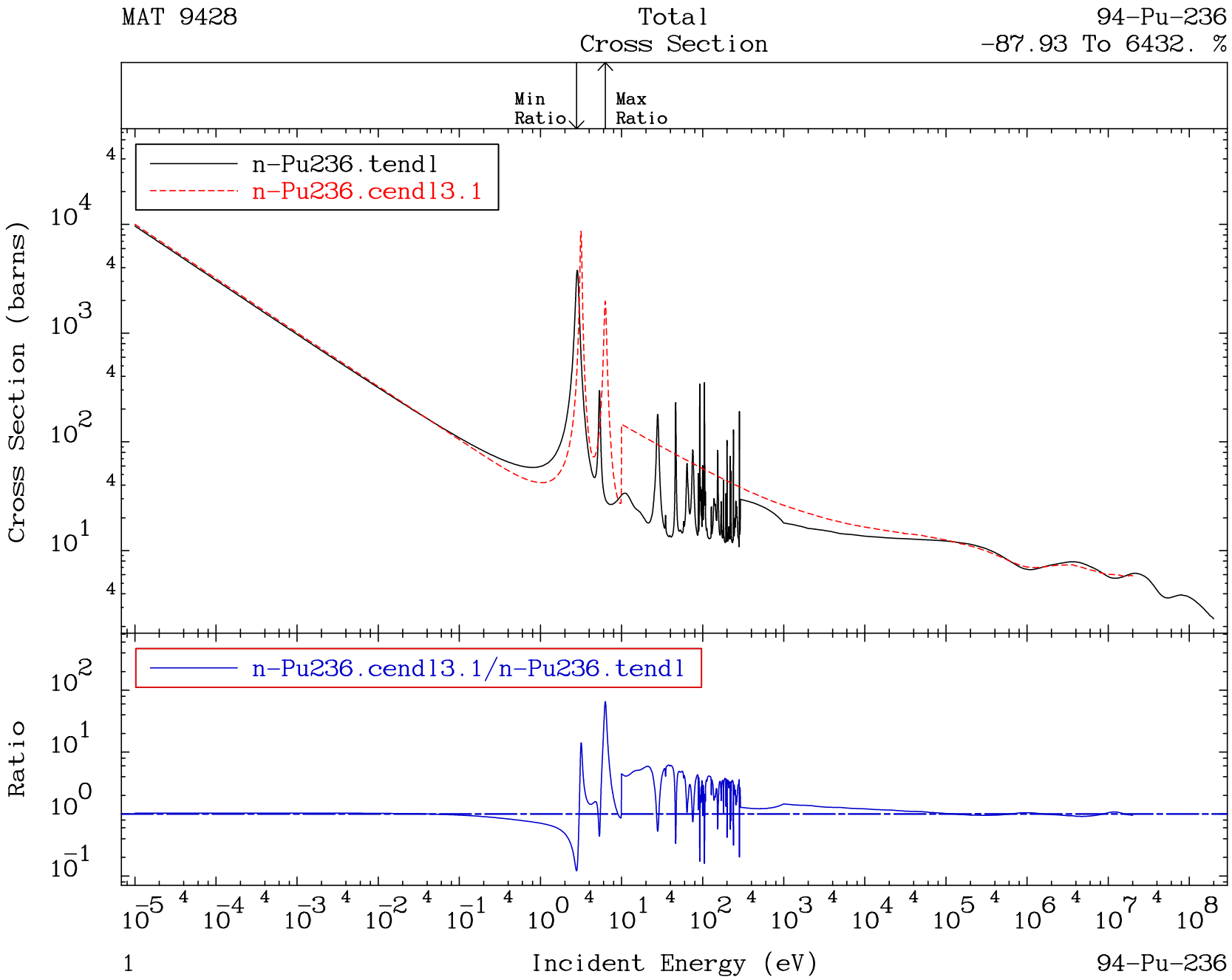
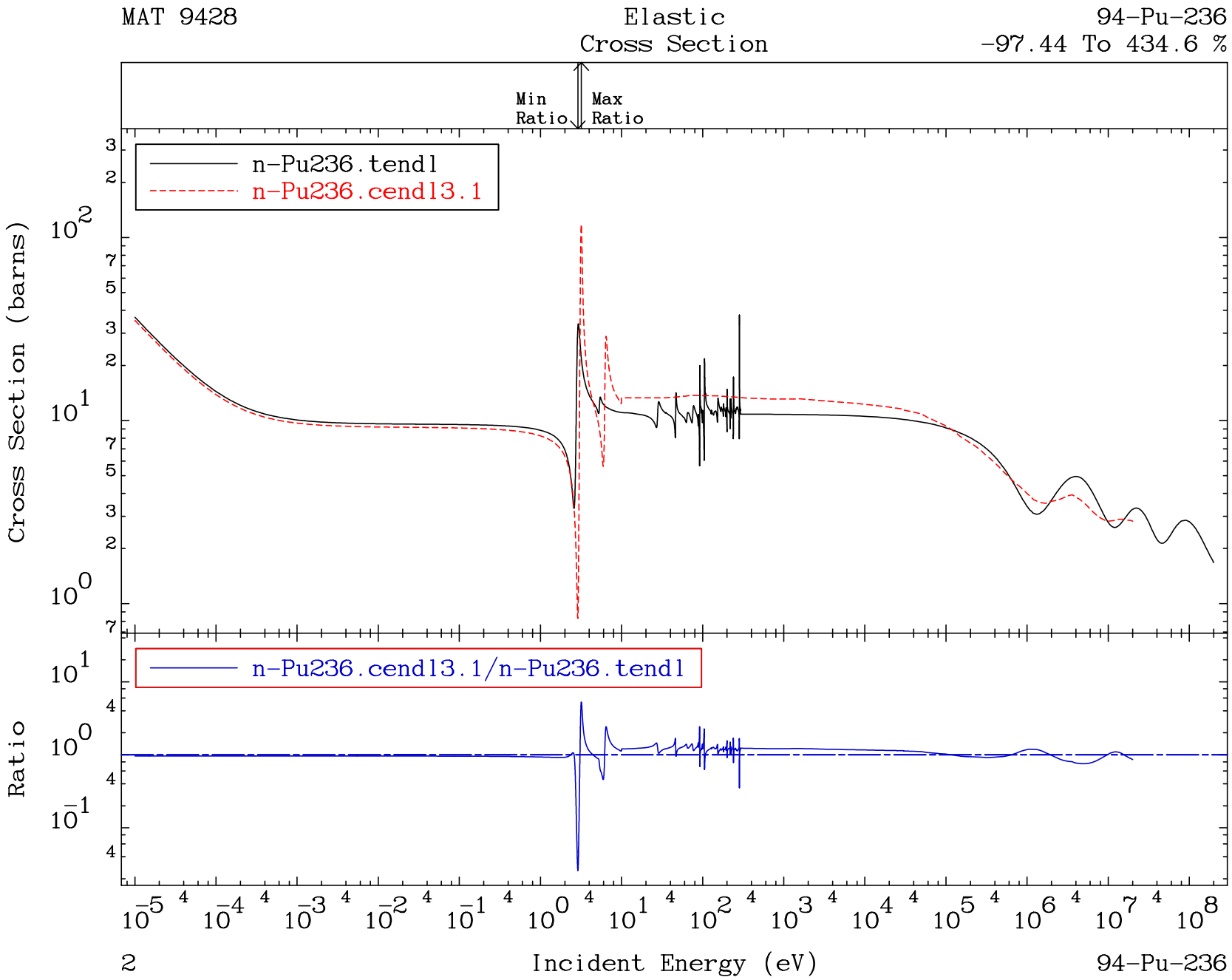
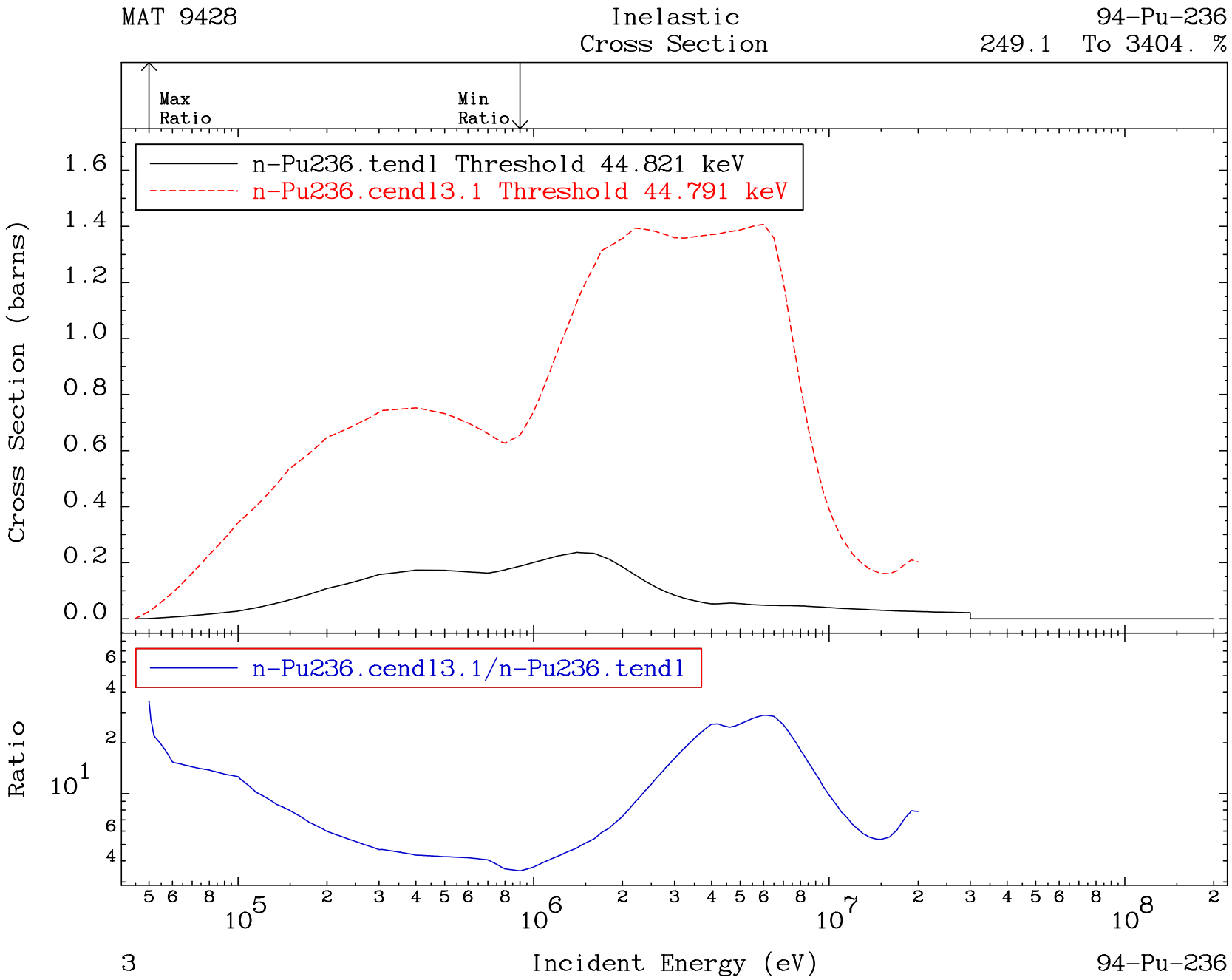

MAT 9428
Total
Cross Section
94-Pu-236
-87.93 To 6432. %
Min
Ratio
Max
Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
1
94-Pu-236

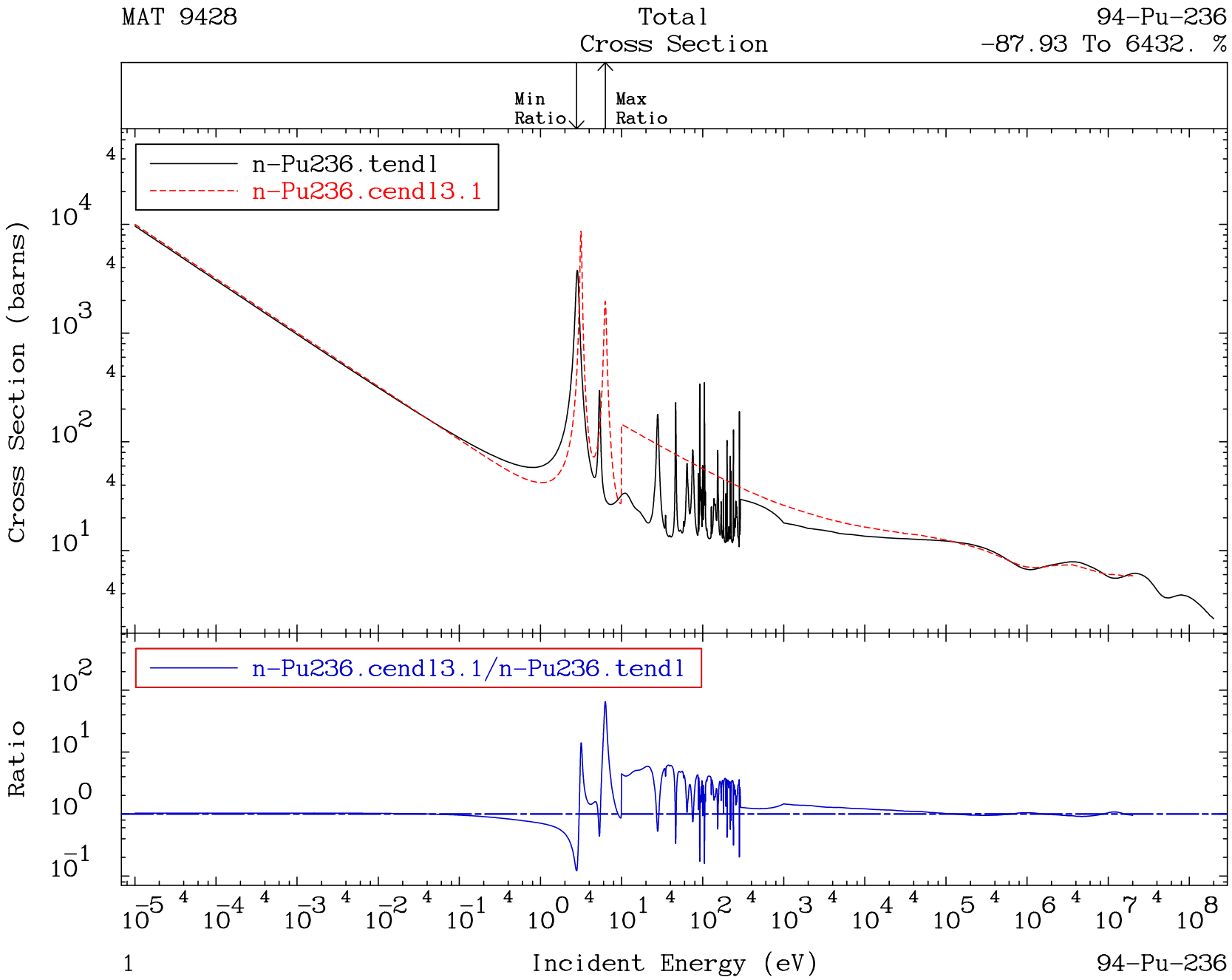

MAT 9428
Elastic
Cross Section
94-Pu-236
-97.44 To 434.6 %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
2
94-Pu-236

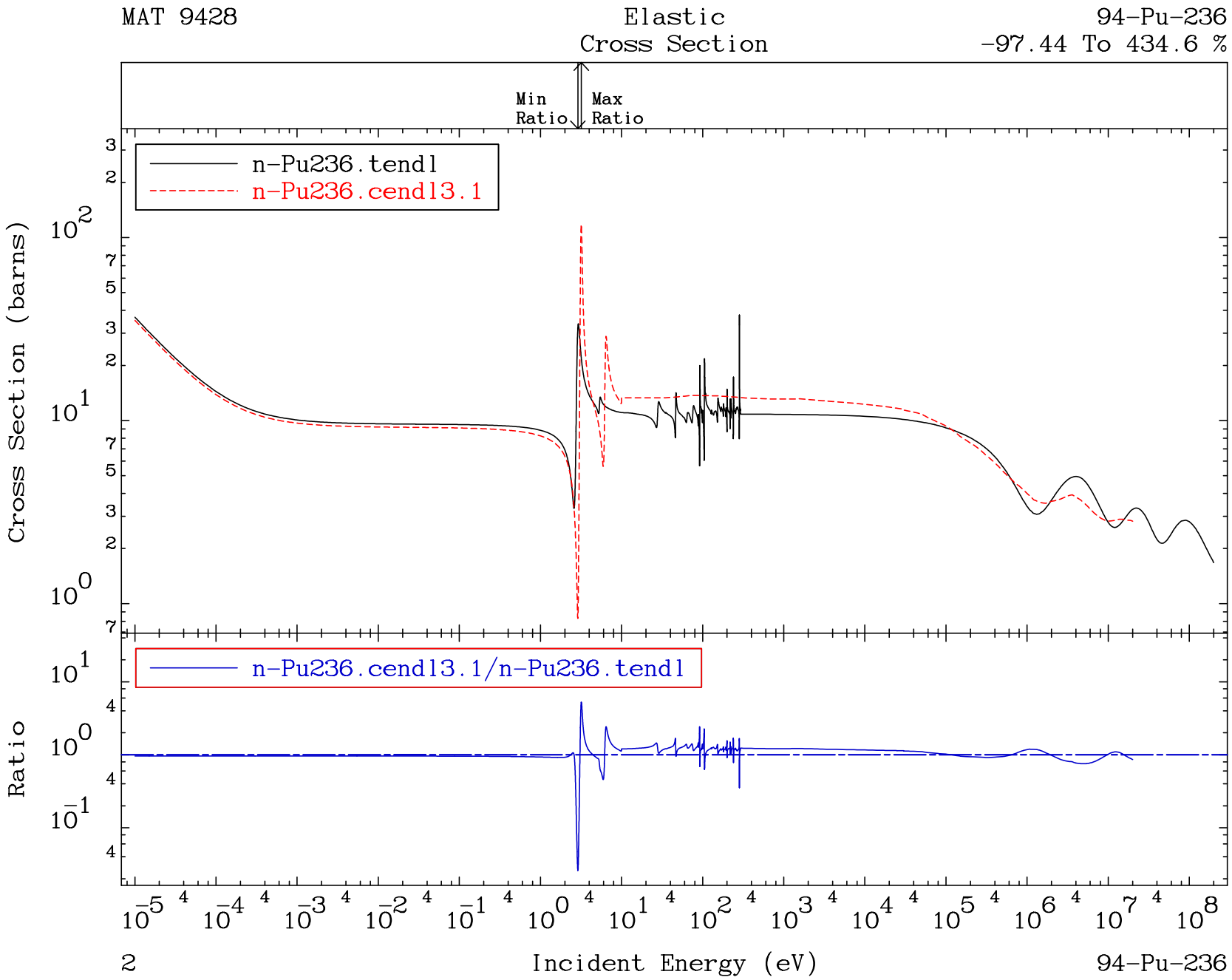

MAT 9428
Inelastic
Cross Section
94-Pu-236
249.1 To 3404. %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 44.821 keV
n-Pu236.cendl3.1 Threshold 44.791 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
6
4
2
10^1
6
4
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
94-Pu-236

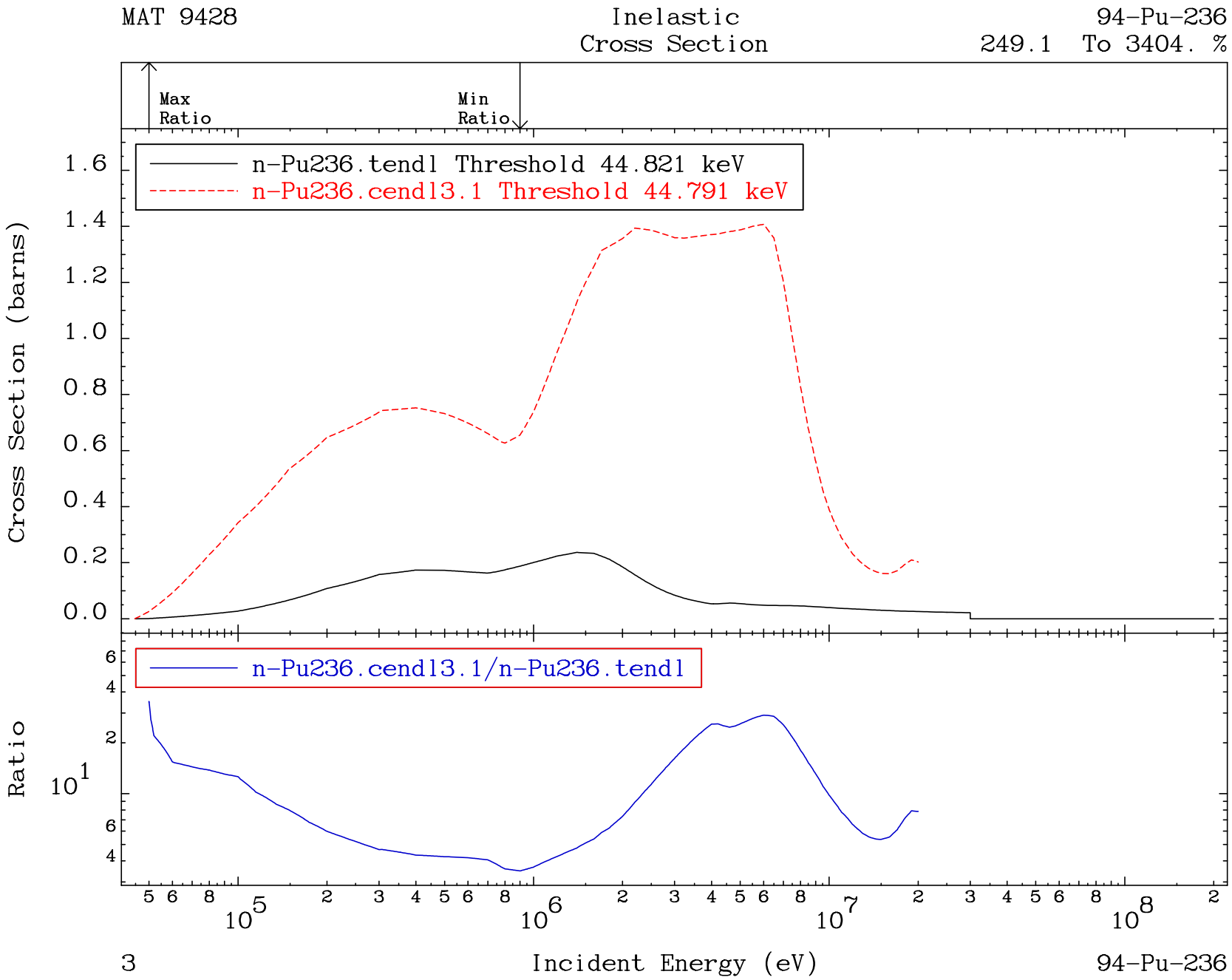

MAT 9428
Total
Cross Section
94-Pu-236
-87.93 To 6432. %
Min
Ratio
Max
Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
1
94-Pu-236

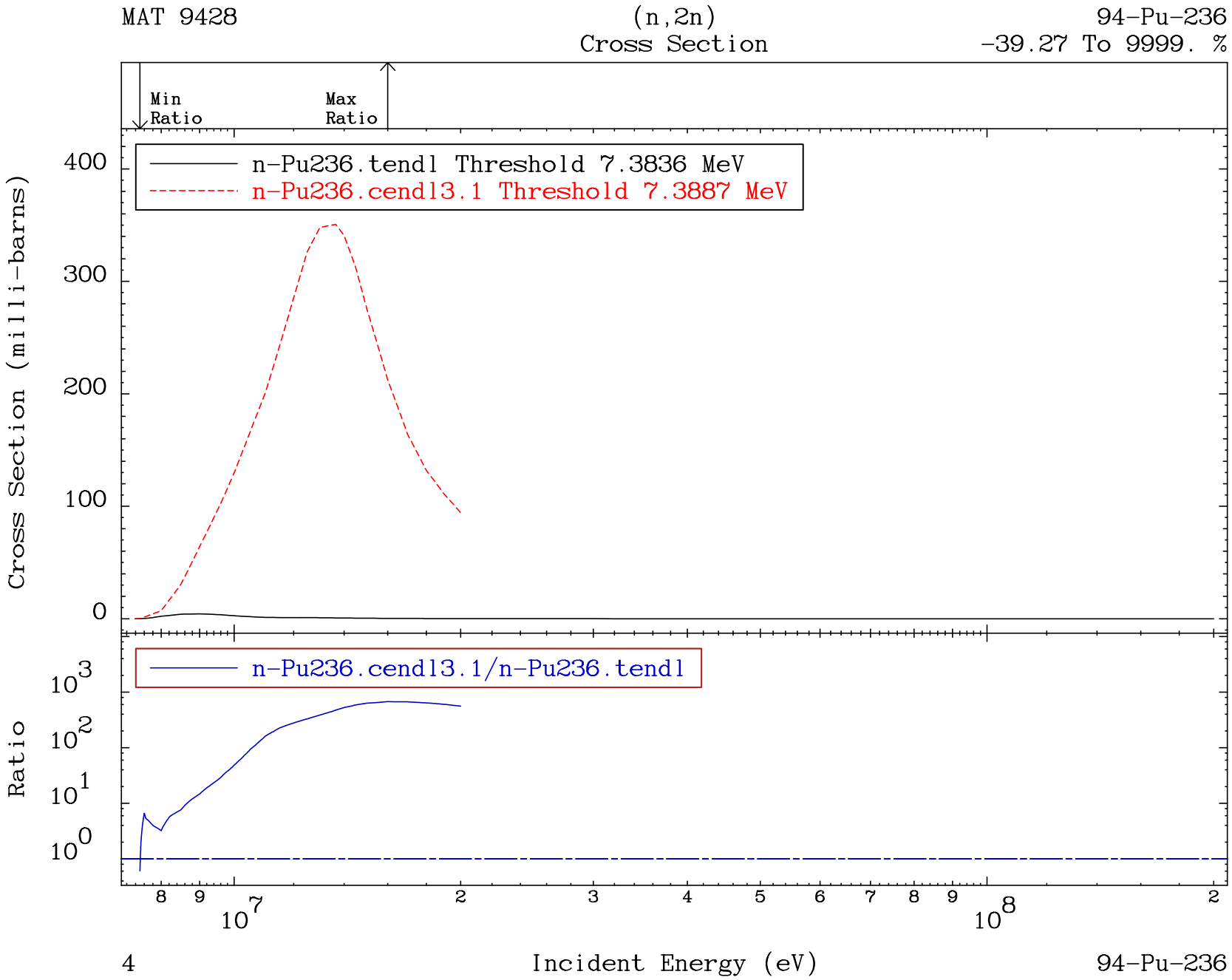

MAT 9428
Elastic
Cross Section
94-Pu-236
-97.44 To 434.6 %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
2
94-Pu-236

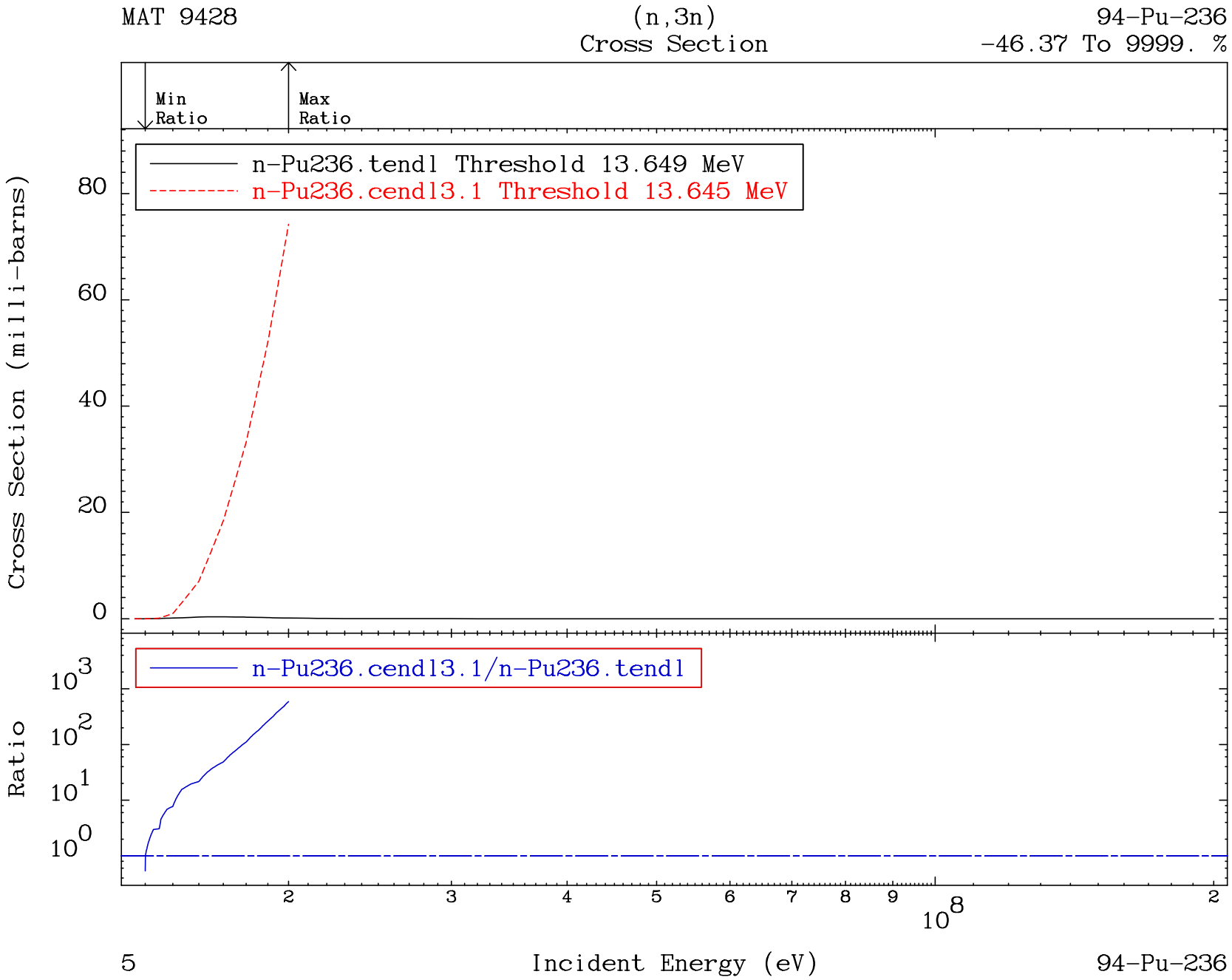

MAT 9428
Inelastic
Cross Section
94-Pu-236
249.1 To 3404. %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 44.821 keV
n-Pu236.cendl3.1 Threshold 44.791 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
6
4
2
10^1
6
4
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
94-Pu-236

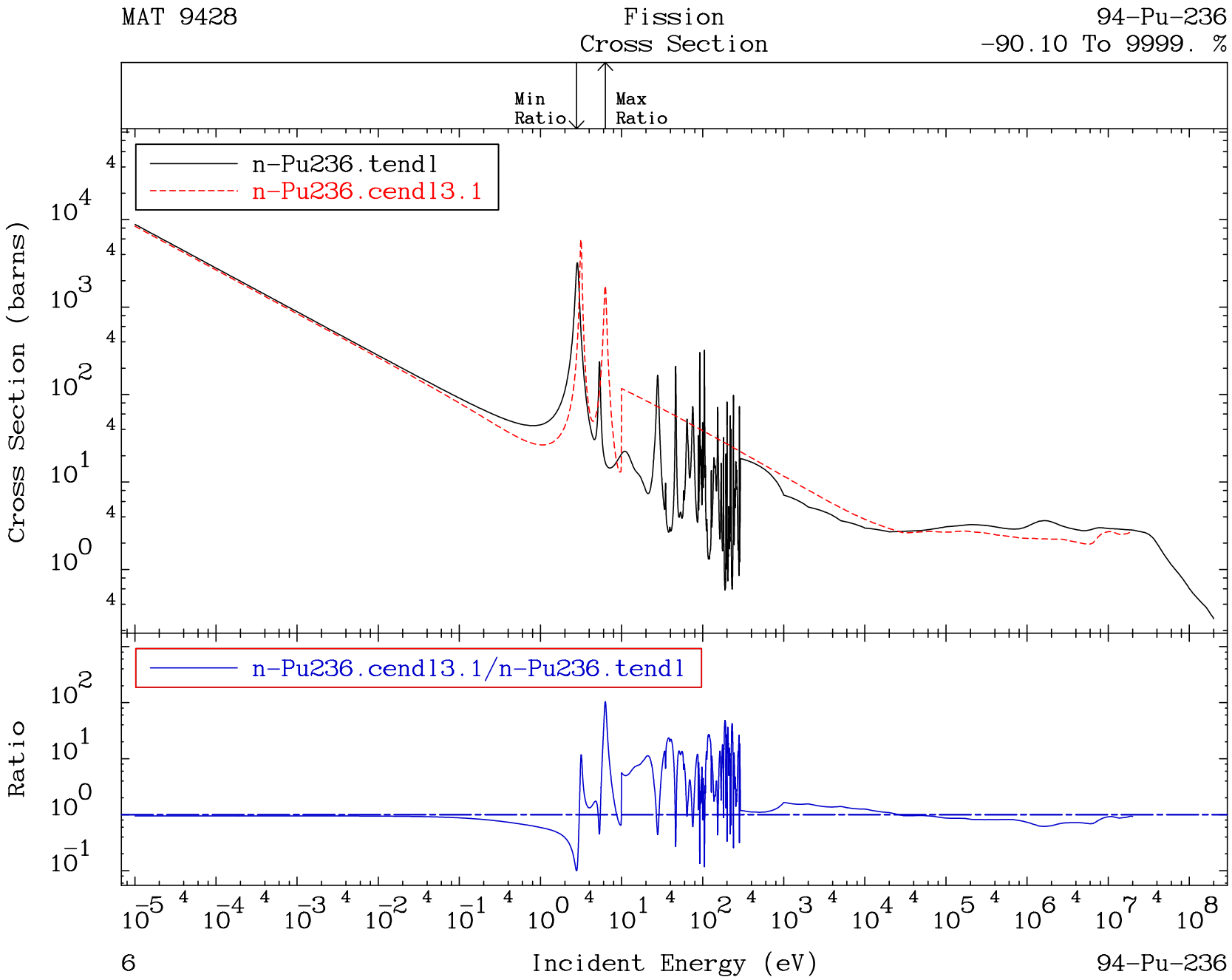

MAT 9428
Total
Cross Section
94-Pu-236
-87.93 To 6432. %
Min
Ratio
Max
Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
1
94-Pu-236

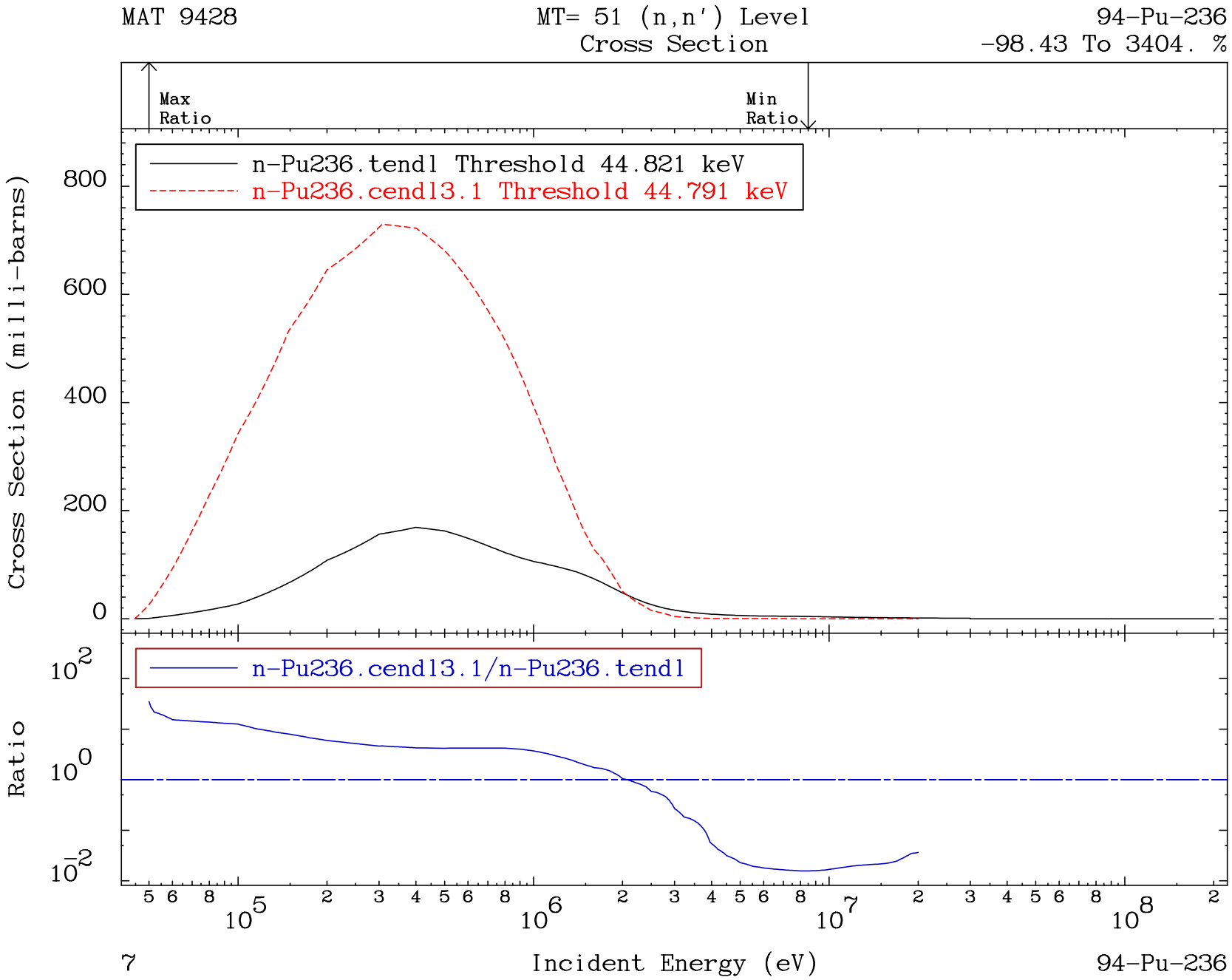

MAT 9428
Elastic
Cross Section
94-Pu-236
-97.44 To 434.6 %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
2
94-Pu-236

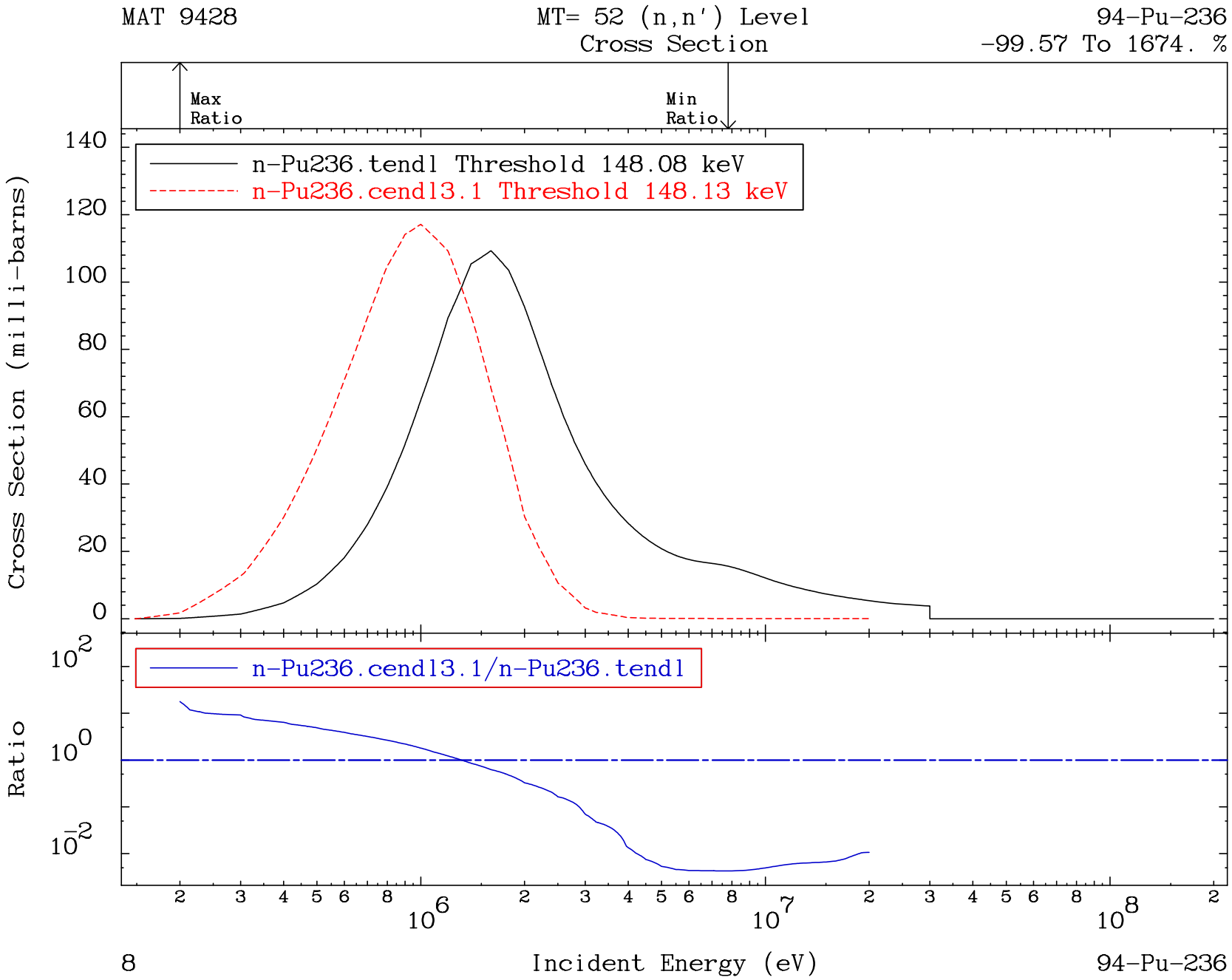

MAT 9428
Inelastic
Cross Section
94-Pu-236
249.1 To 3404. %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 44.821 keV
n-Pu236.cendl3.1 Threshold 44.791 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
6
4
2
10^1
6
4
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
94-Pu-236

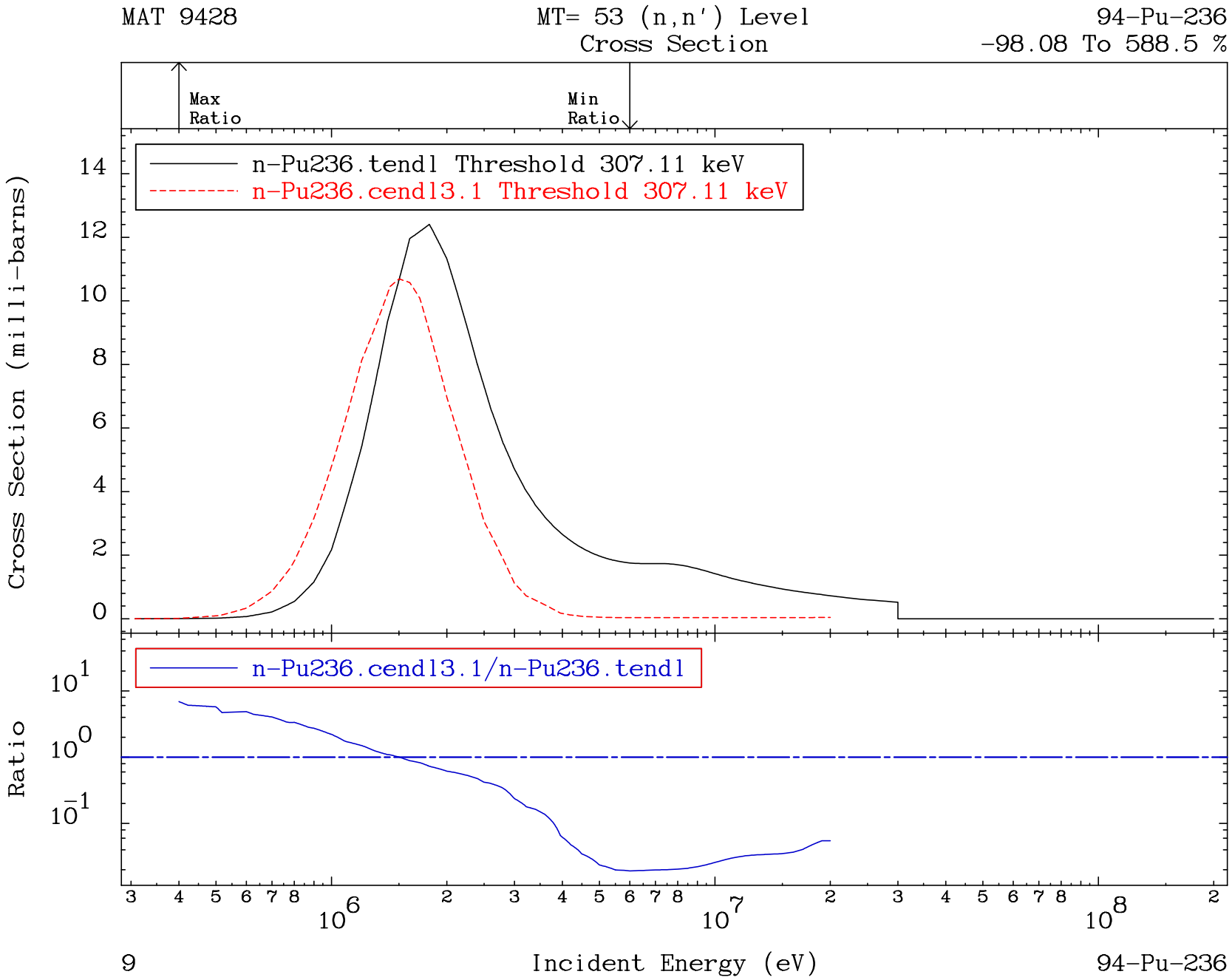

MAT 9428
(n,2n)
Cross Section
94-Pu-236
-39.27 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 7.3836 MeV
n-Pu236.cendl3.1 Threshold 7.3887 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
94-Pu-236

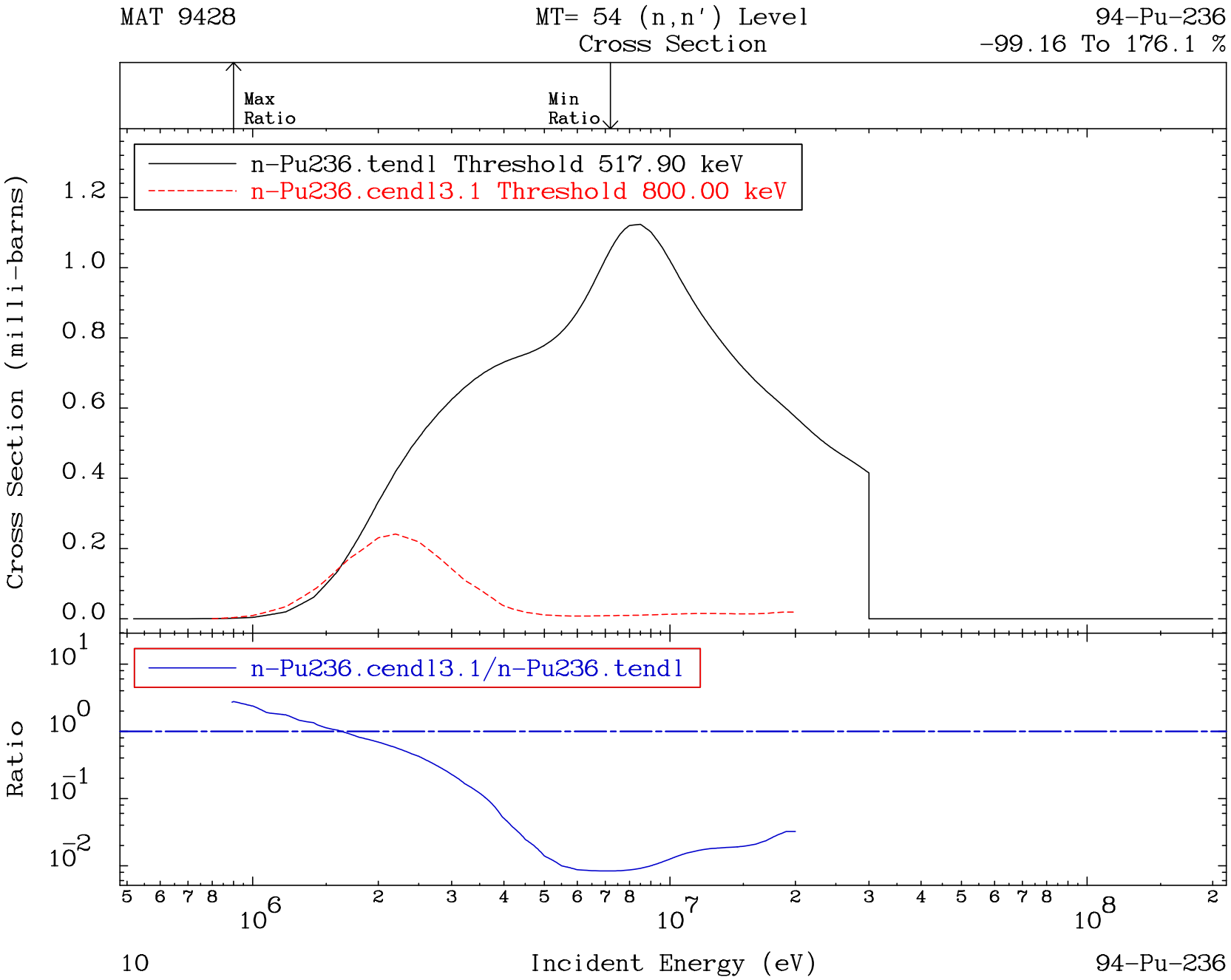

MAT 9428
(n,3n)
Cross Section
94-Pu-236
-46.37 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 13.649 MeV
n-Pu236.cendl3.1 Threshold 13.645 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
94-Pu-236

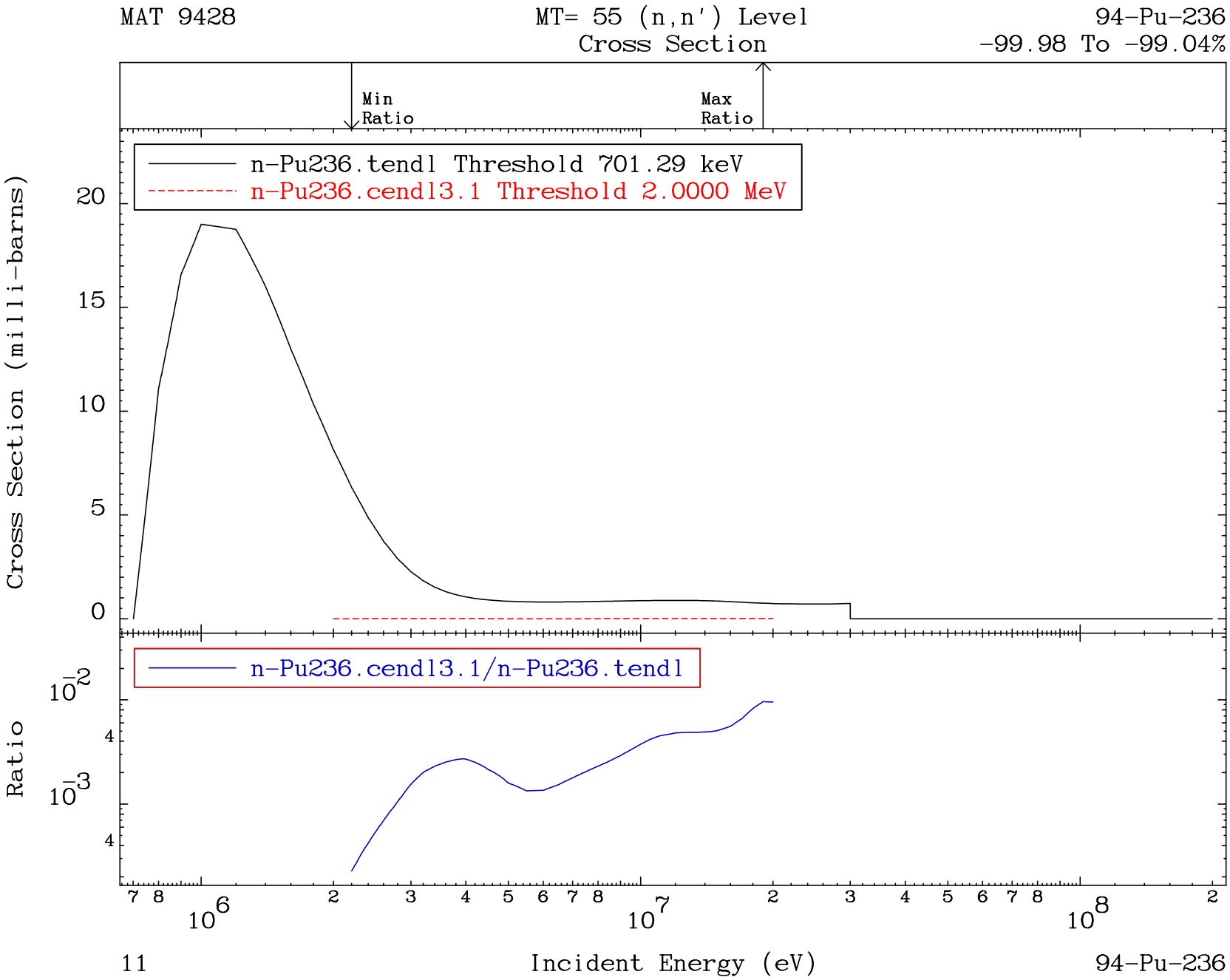

MAT 9428
Fission
Cross Section
94-Pu-236
-90.10 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
6
94-Pu-236

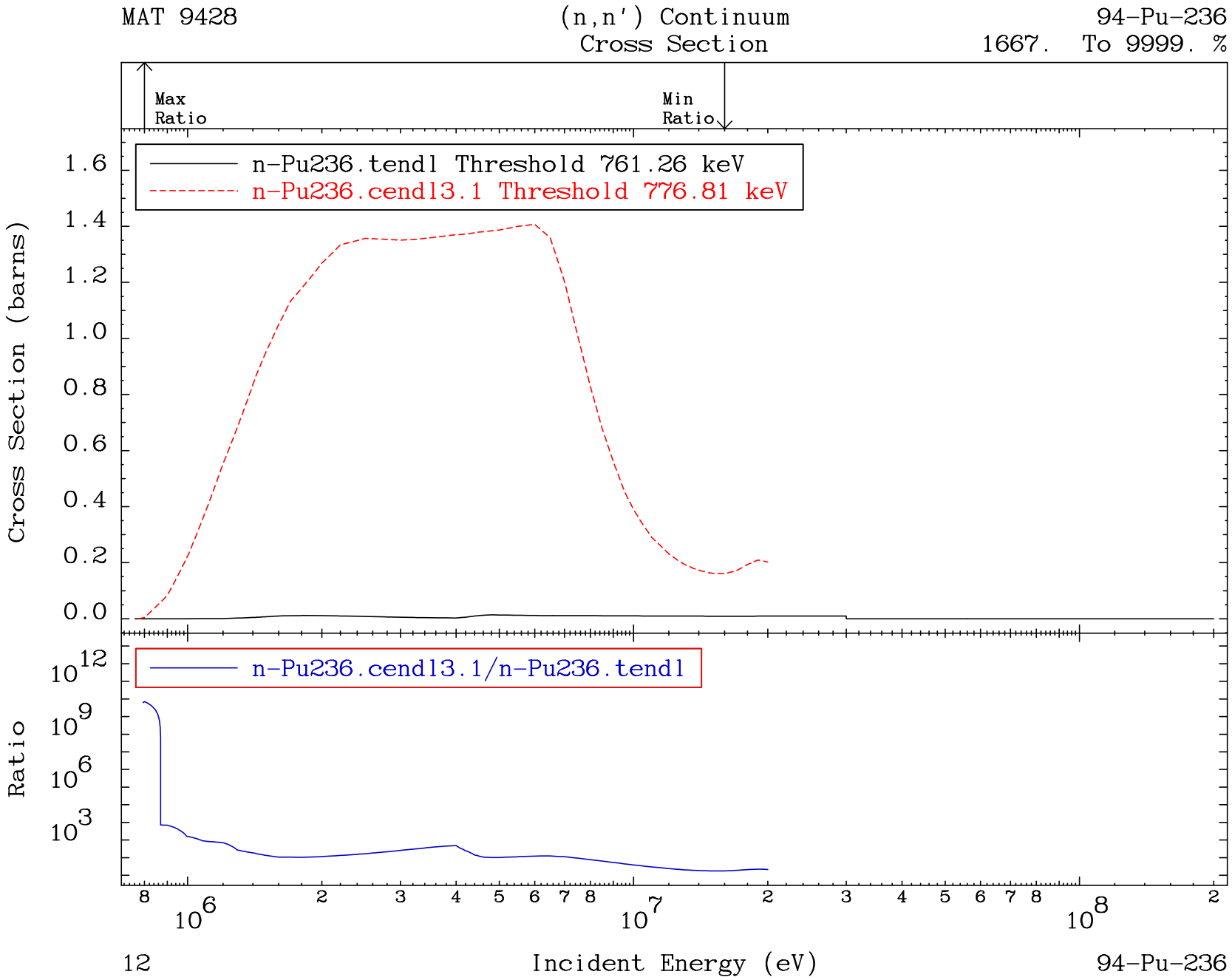

MAT 9428
MT= 51 (n,n') Level
Cross Section
94-Pu-236
-98.43 To 3404. %
Max
Ratio
Min
Ratio
n-Pu236.tendl Threshold 44.821 keV
n-Pu236.cendl3.1 Threshold 44.791 keV
Cross Section (milli-barns)
800
600
400
200
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^2
10^0
10^-2
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
7
Incident Energy (eV)
94-Pu-236

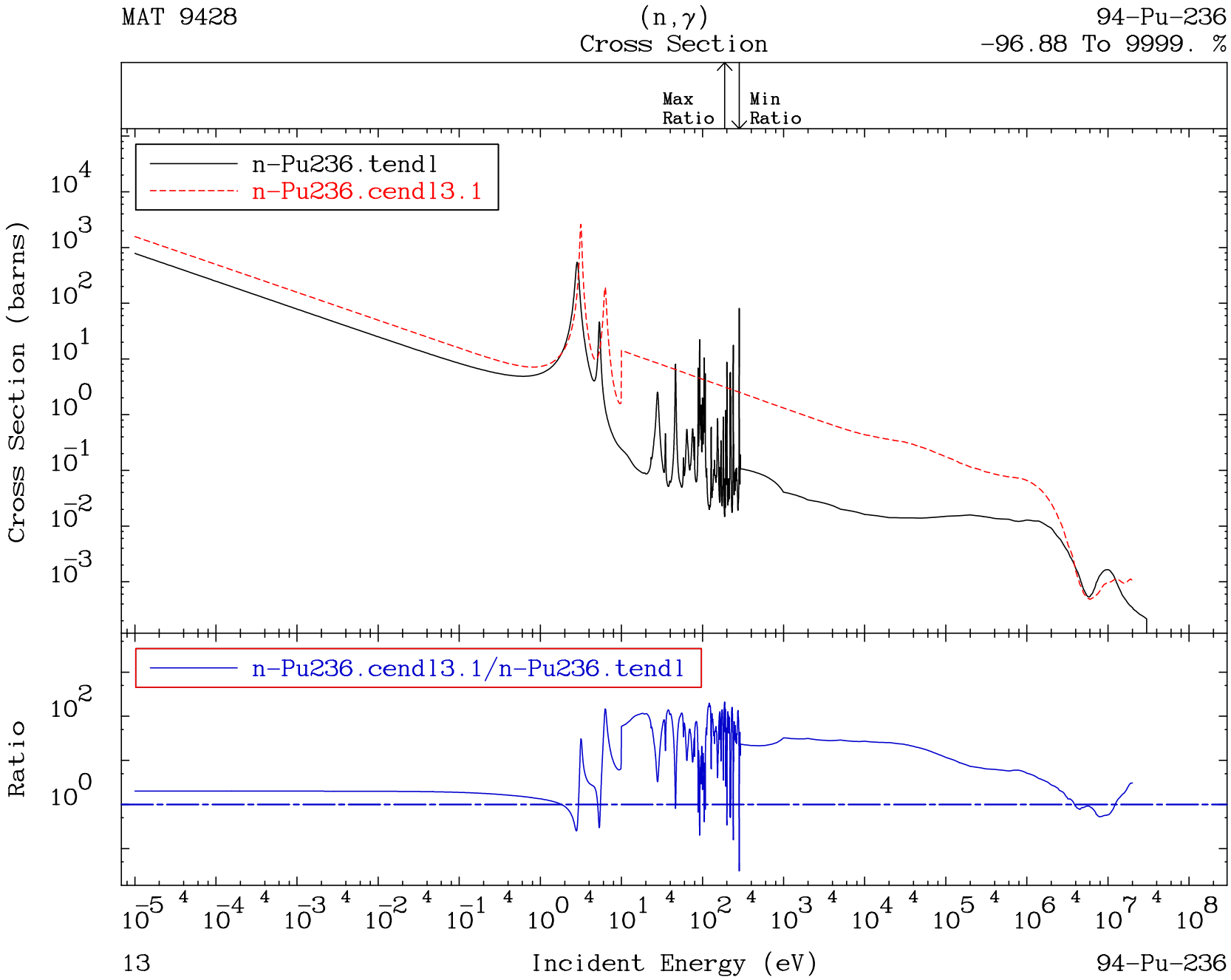

MAT 9428
MT= 52 (n,n') Level
Cross Section
94-Pu-236
-99.57 To 1674. %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 148.08 keV
n-Pu236.cendl3.1 Threshold 148.13 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^2
10^0
10^-2
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
94-Pu-236

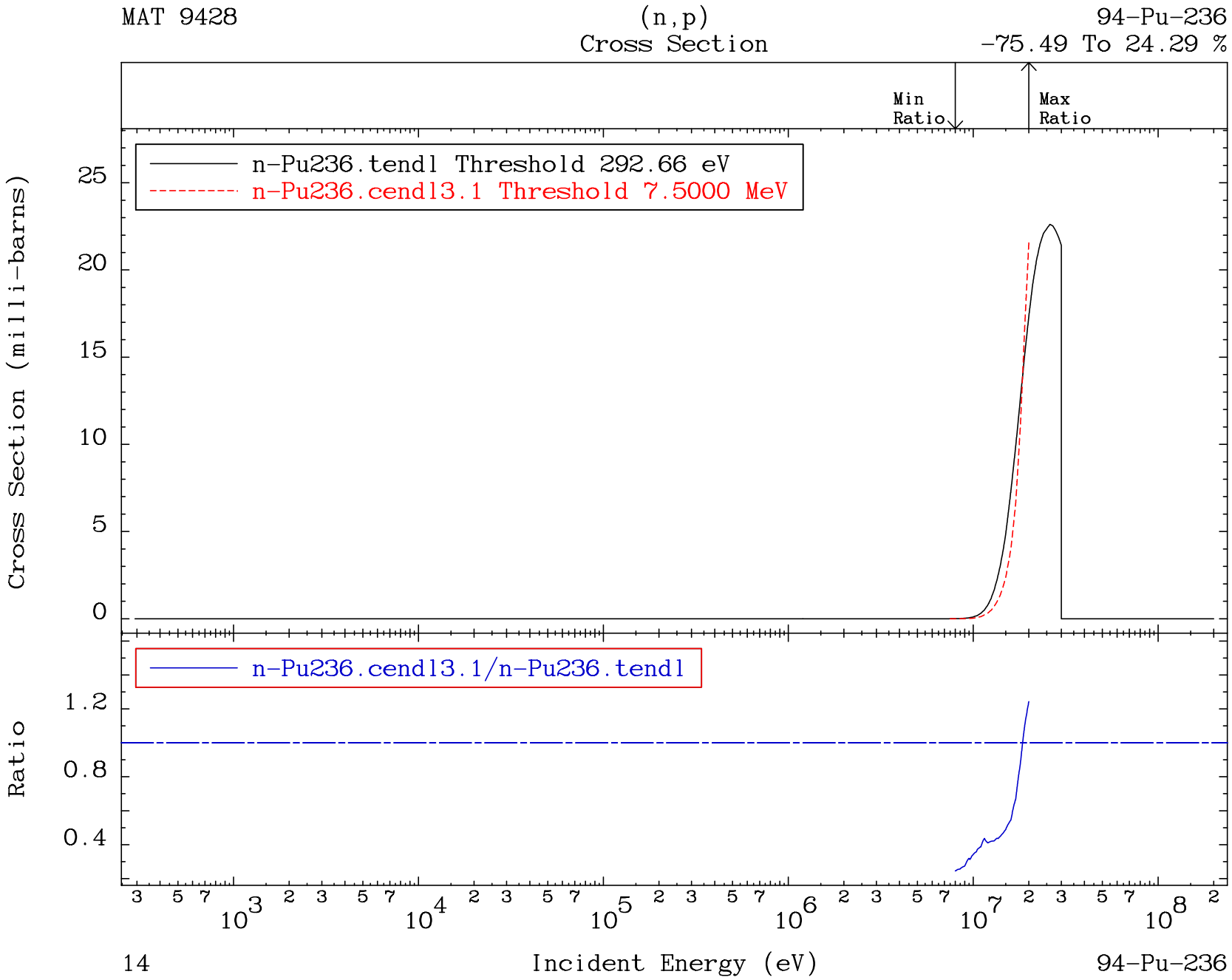

MAT 9428
MT= 53 (n,n') Level
Cross Section
94-Pu-236
-98.08 To 588.5 %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 307.11 keV
n-Pu236.cendl3.1 Threshold 307.11 keV
Cross Section (milli-barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
9
94-Pu-236

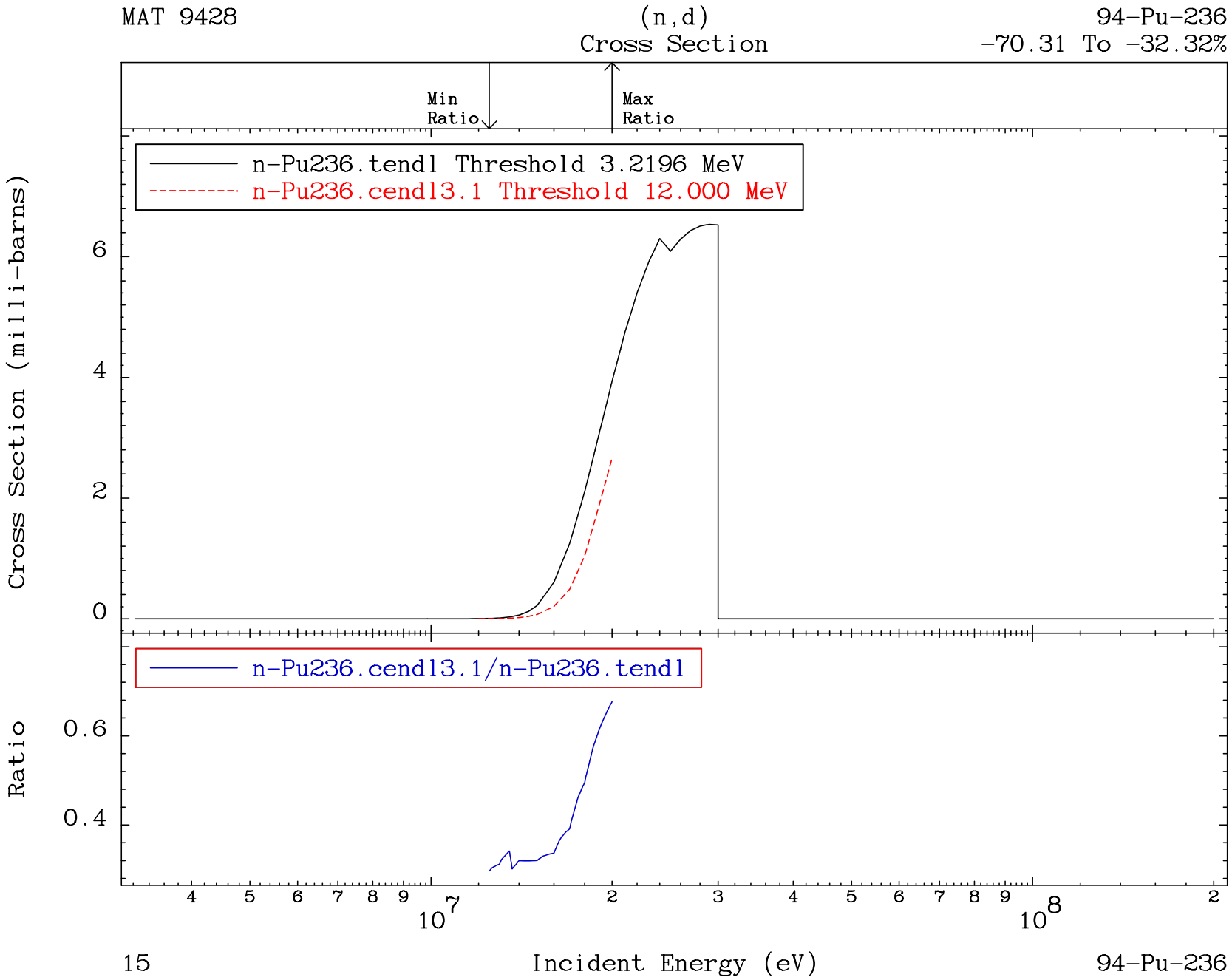

MAT 9428
MT= 54 (n,n') Level
Cross Section
94-Pu-236
-99.16 To 176.1 %
Max
Ratio
Min
Ratio
n-Pu236.tendl Threshold 517.90 keV
n-Pu236.cendl3.1 Threshold 800.00 keV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^1
10^0
10^-1
10^-2
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
94-Pu-236

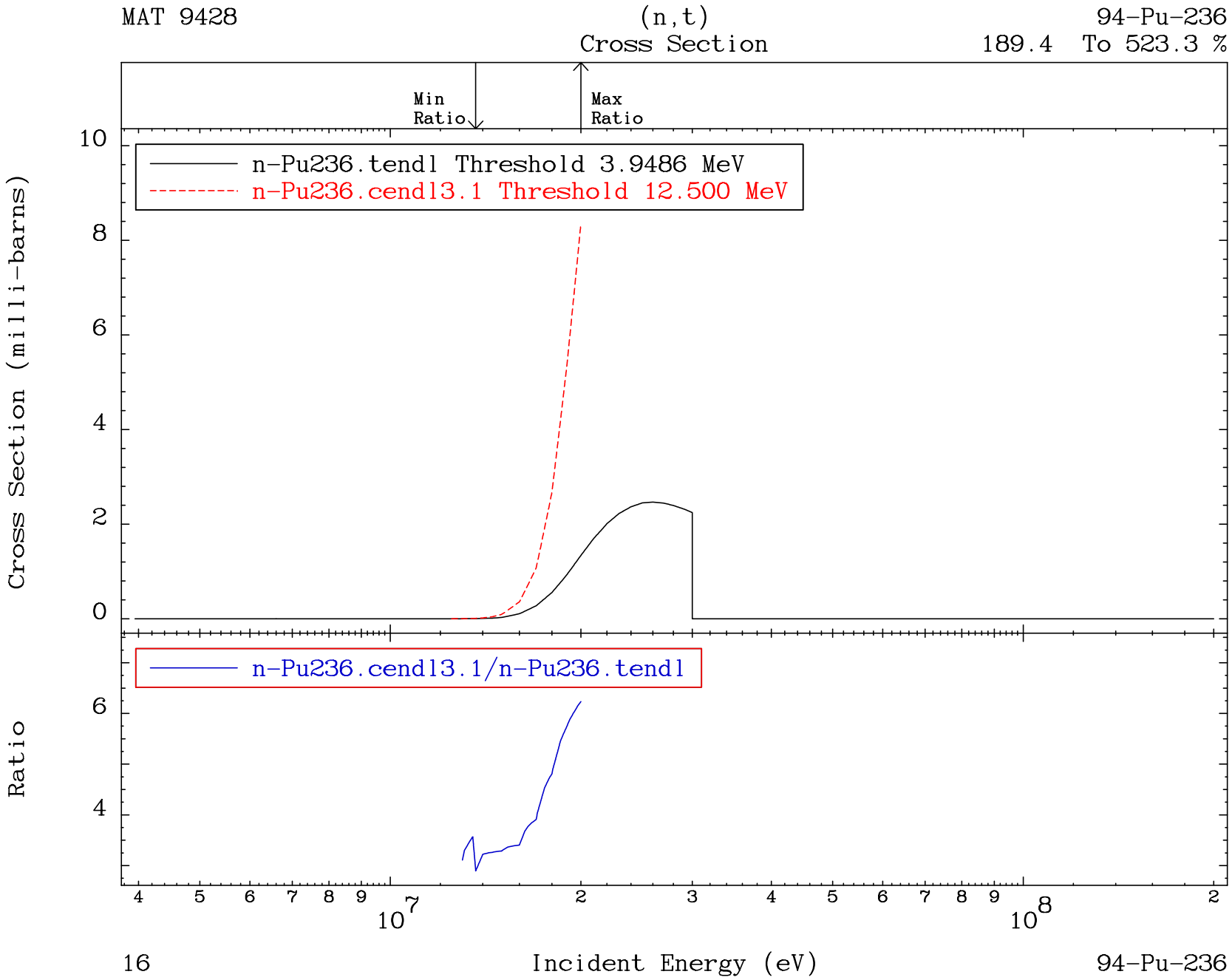

MAT 9428
MT= 55 (n,n') Level
Cross Section
94-Pu-236
-99.98 To -99.04%
Min
Ratio
Max
Ratio
n-Pu236.tendl Threshold 701.29 keV
n-Pu236.cendl3.1 Threshold 2.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10-2
4
10-3
4
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
94-Pu-236

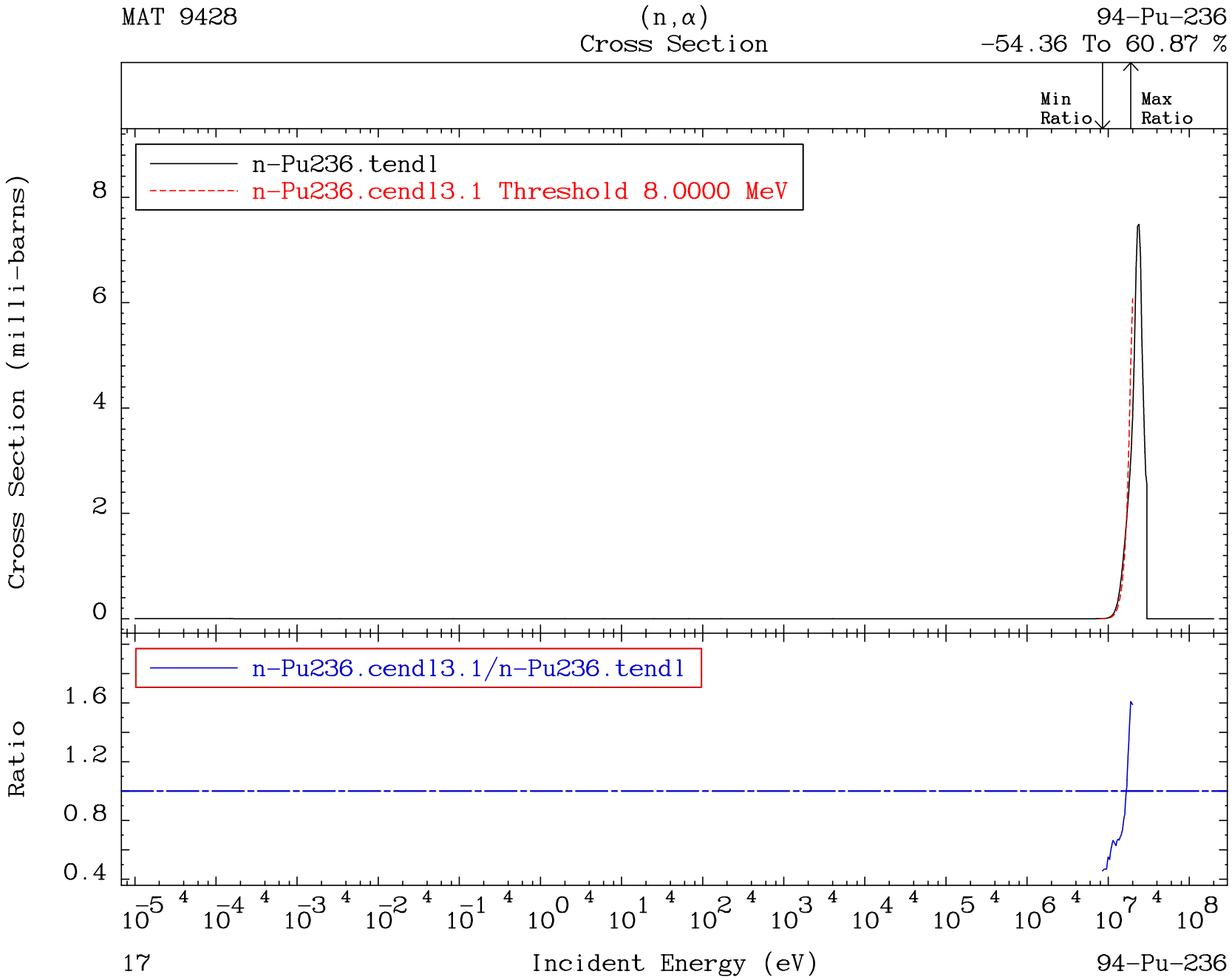

MAT 9428
(n,n') Continuum
Cross Section
94-Pu-236
1667. To 9999. %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 761.26 keV
n-Pu236.cendl3.1 Threshold 776.81 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^12
10^9
10^6
10^3
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
94-Pu-236

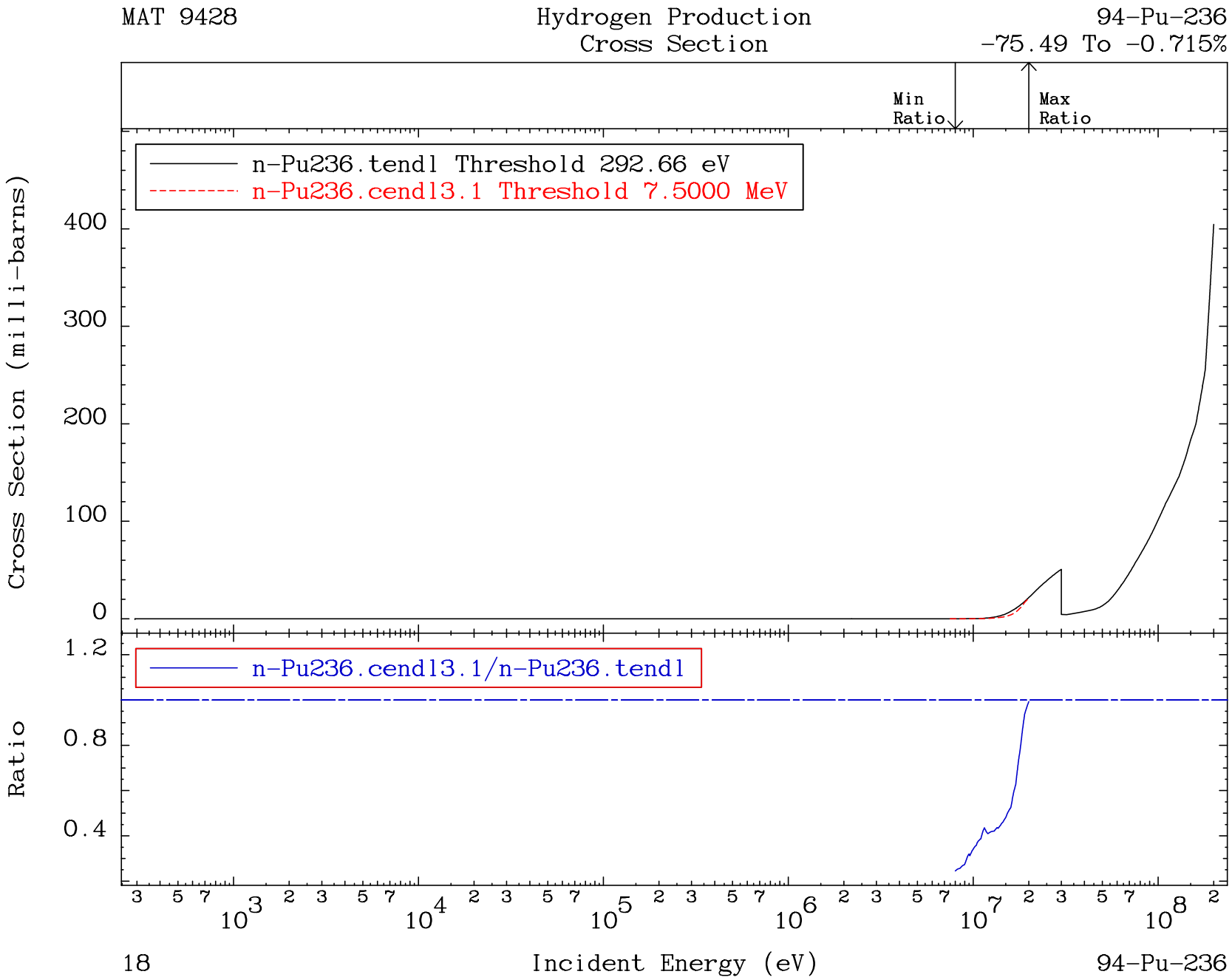

MAT 9428
(n,γ)
Cross Section
94-Pu-236
-96.88 To 9999. %
Max Ratio
Min Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
13
Incident Energy (eV)
94-Pu-236

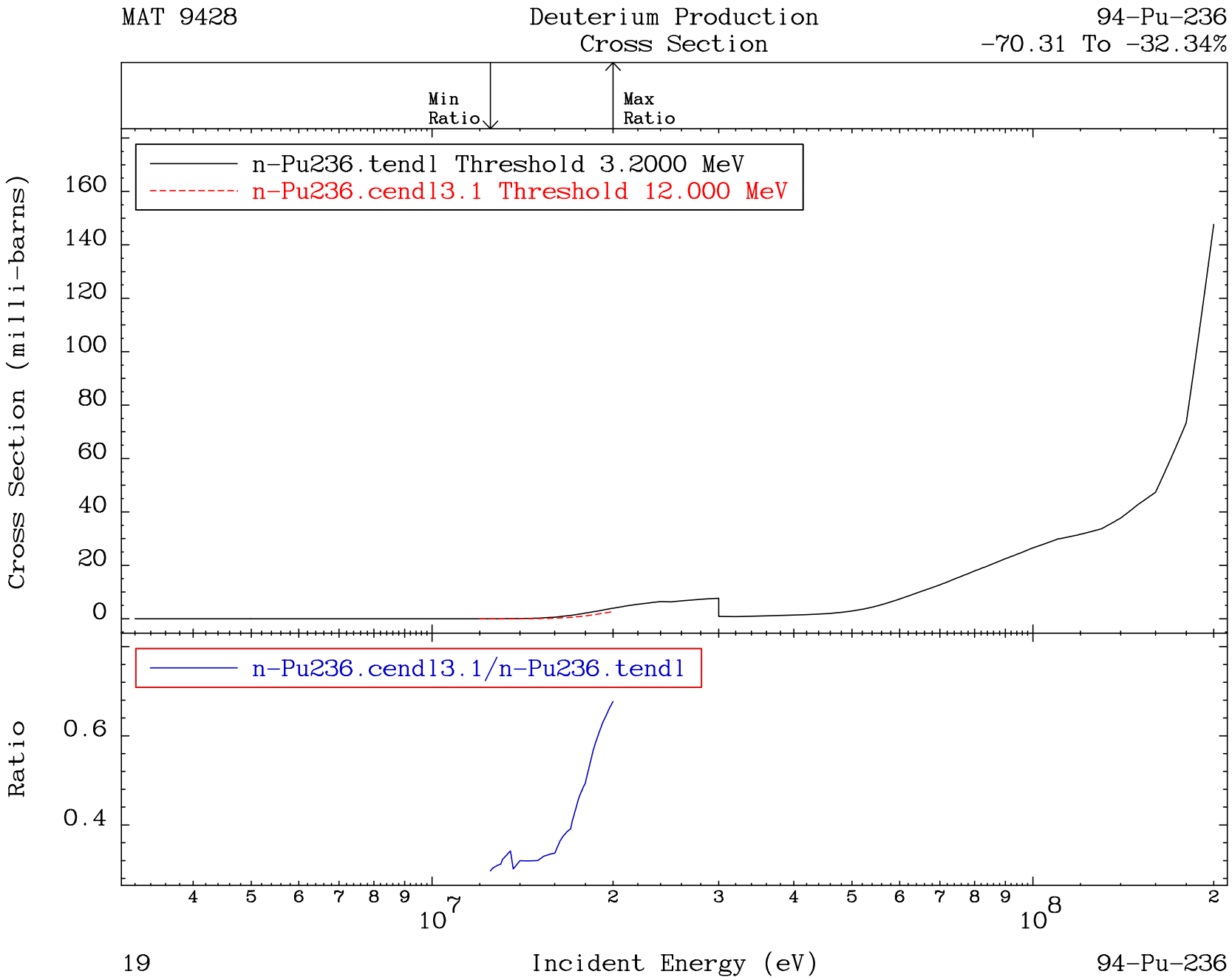

MAT 9428
(n,p)
Cross Section
94-Pu-236
-75.49 To 24.29 %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 292.66 eV
n-Pu236.cendl3.1 Threshold 7.5000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
1.2
0.8
0.4
3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
14
Incident Energy (eV)
94-Pu-236

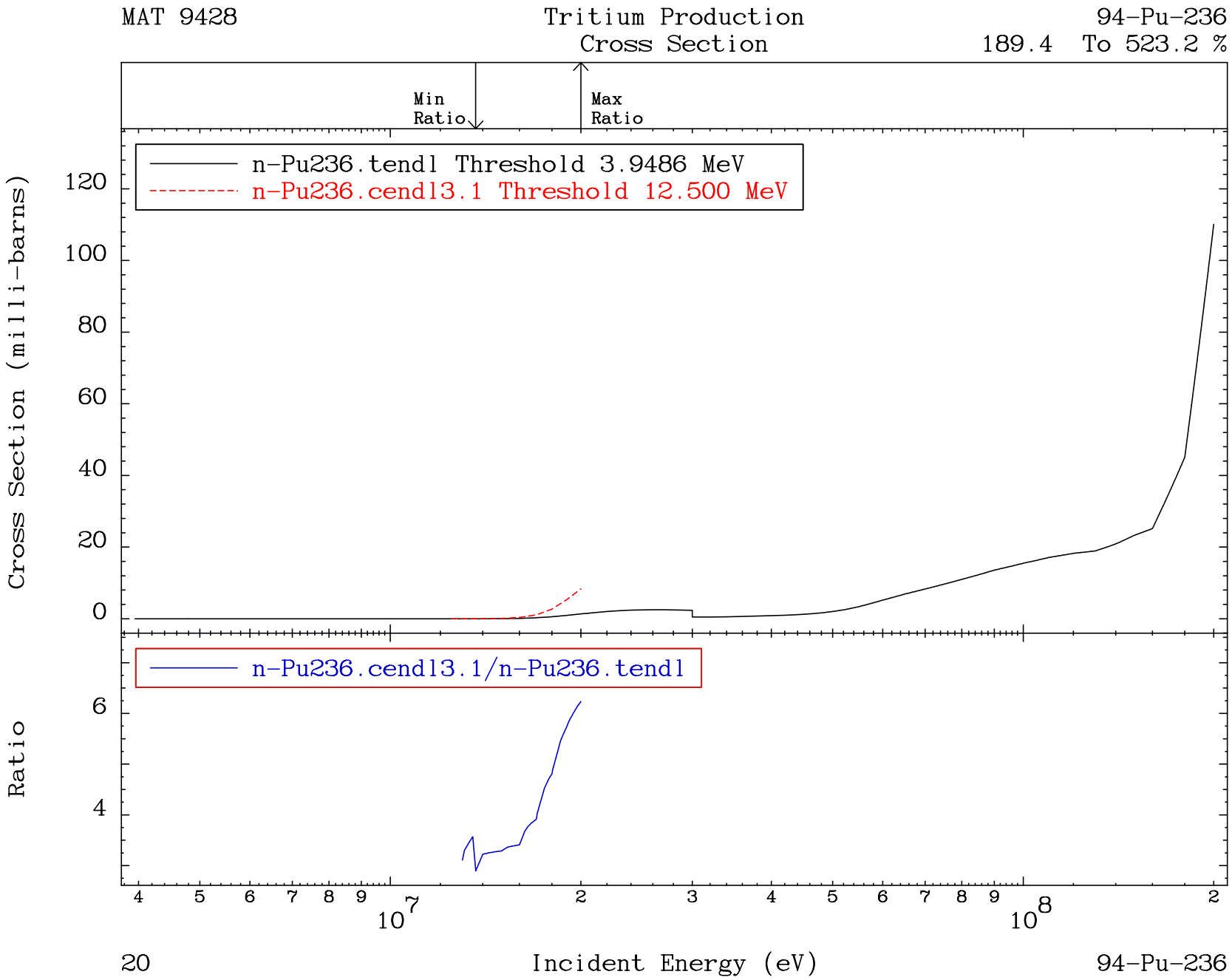

MAT 9428
(n,d)
Cross Section
94-Pu-236
-70.31 To -32.32%
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 3.2196 MeV
n-Pu236.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
0
2
4
6
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
0.4
0.6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
94-Pu-236

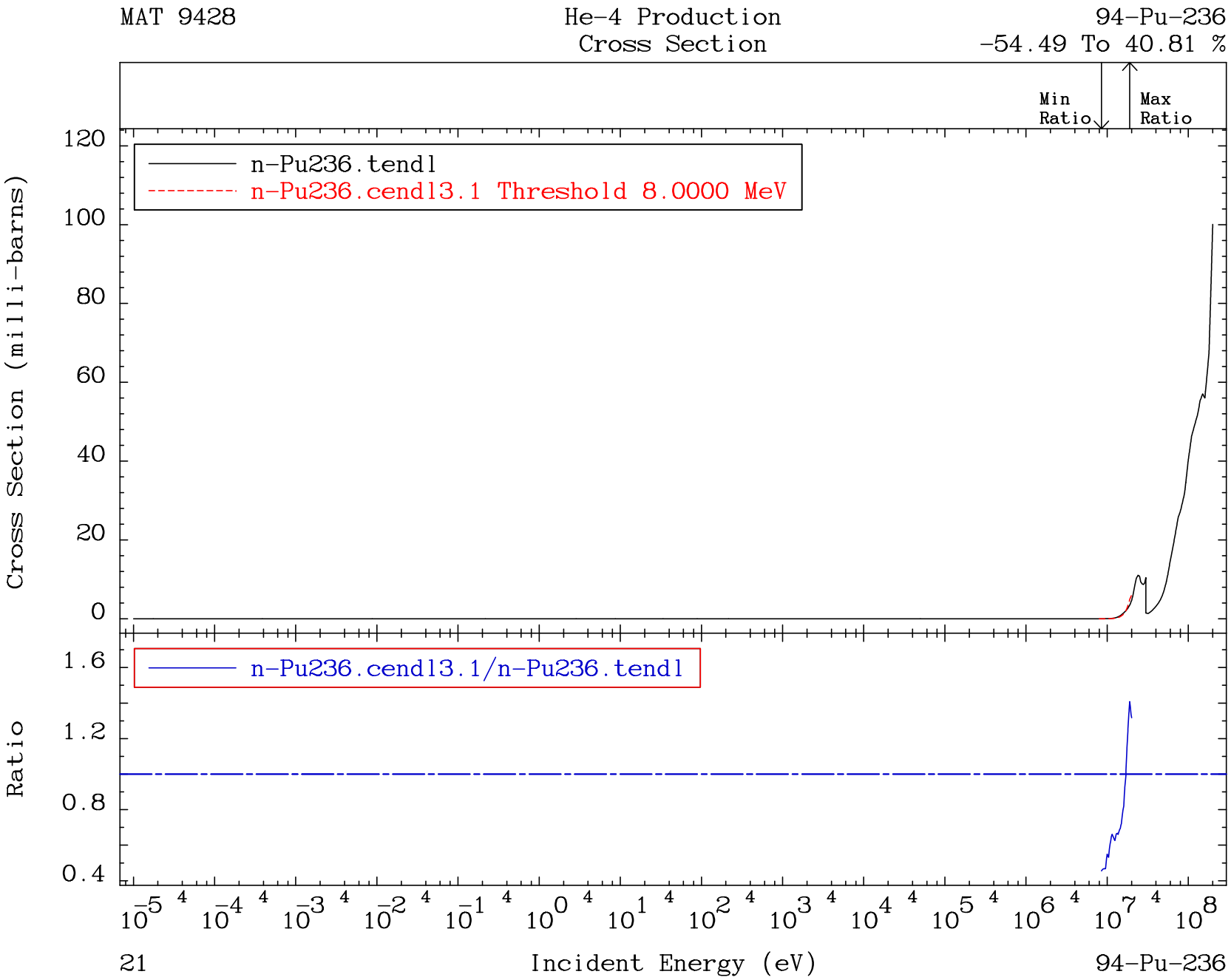

MAT 9428
(n,t)
Cross Section
94-Pu-236
189.4 To 523.3 %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 3.9486 MeV
n-Pu236.cendl3.1 Threshold 12.500 MeV
Cross Section (milli-barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
16
94-Pu-236

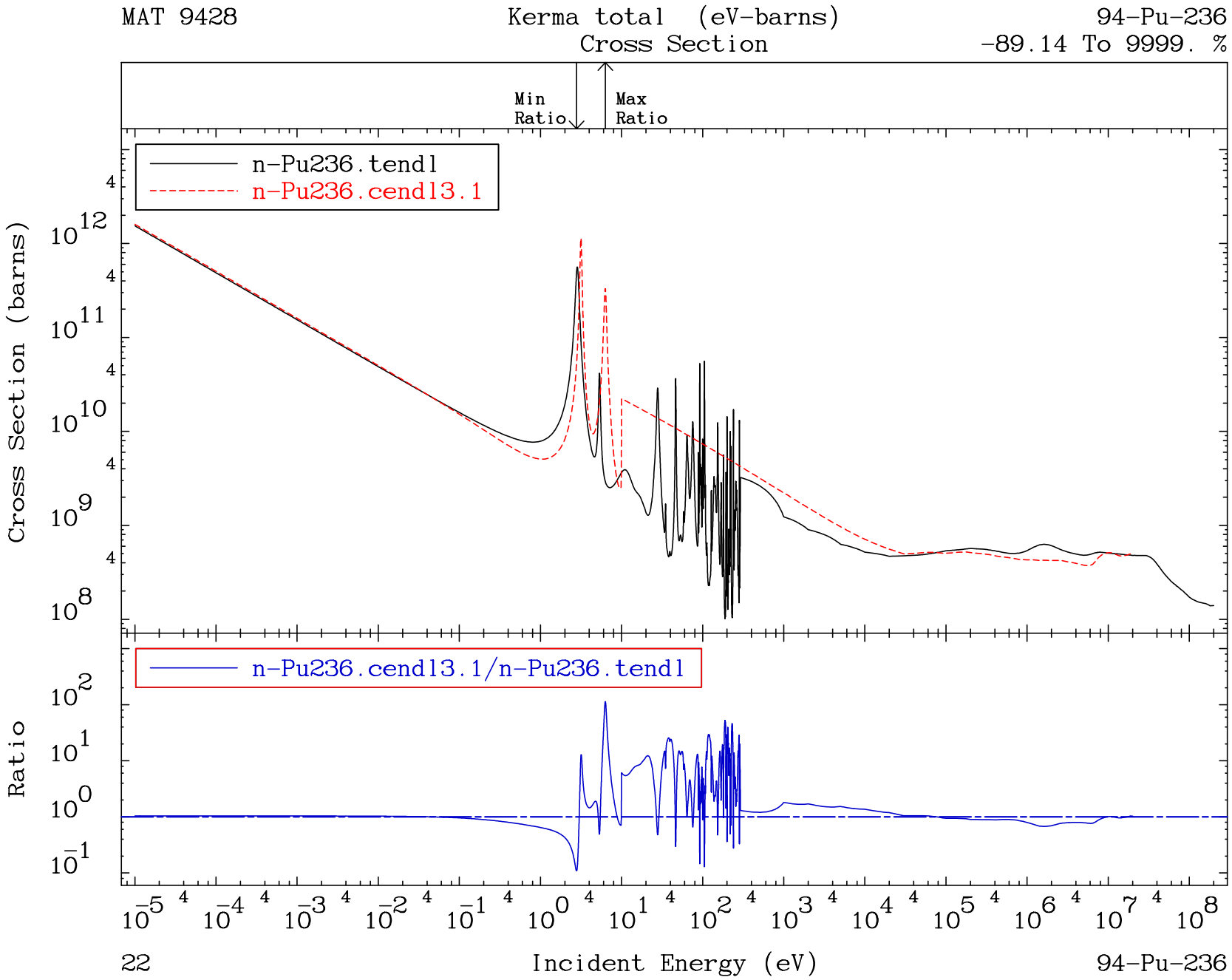

MAT 9428
(n,α)
Cross Section
94-Pu-236
-54.36 To 60.87 %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1 Threshold 8.0000 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
0.4
0.8
1.2
1.6
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
17
Incident Energy (eV)
94-Pu-236

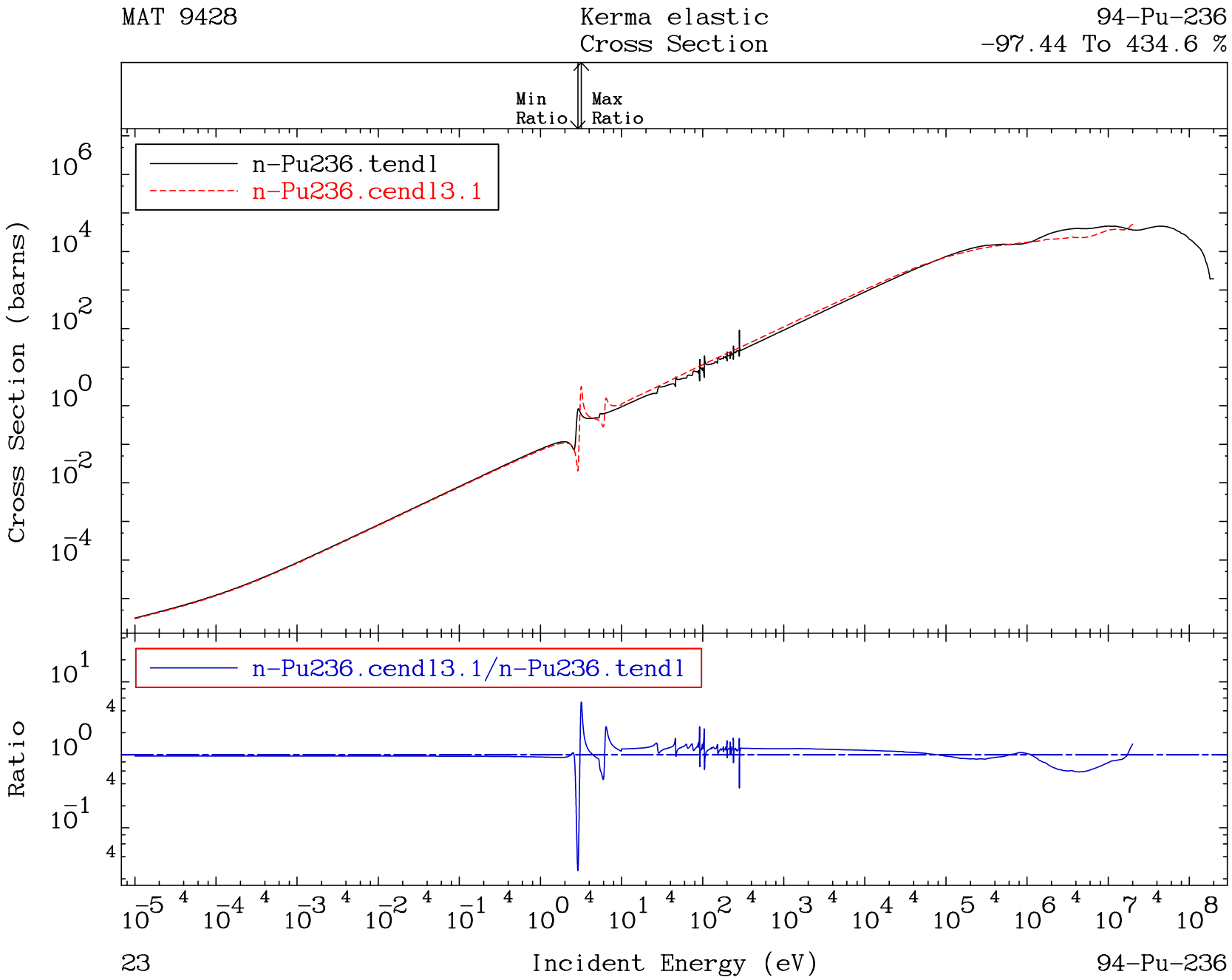

MAT 9428
Hydrogen Production
Cross Section
94-Pu-236
-75.49 To -0.715%
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 292.66 eV
n-Pu236.cendl3.1 Threshold 7.5000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Pu236.cendl3.1/n-Pu236.tendl
1.2
0.8
0.4
Ratio
3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
18
Incident Energy (eV)
94-Pu-236

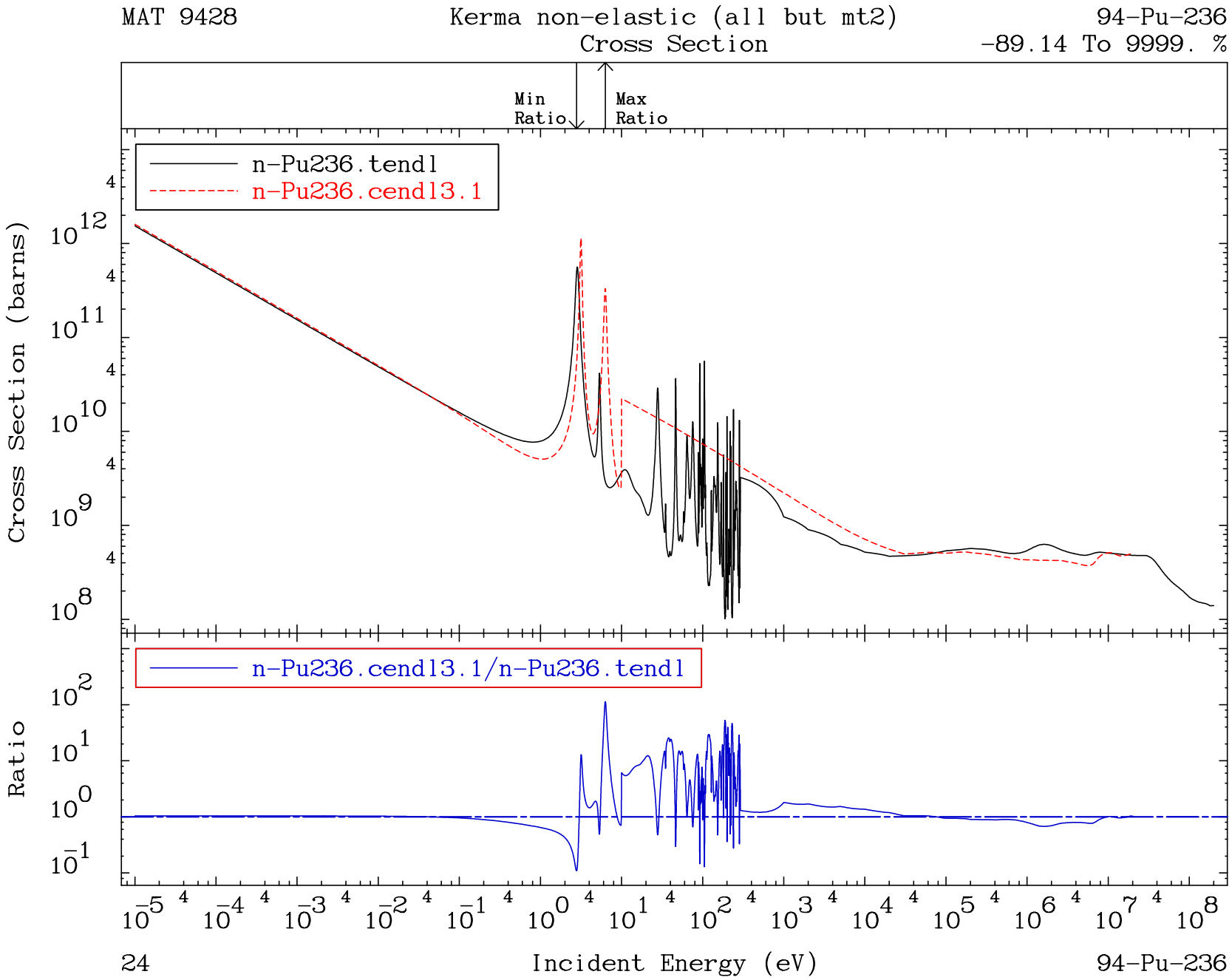

MAT 9428
Deuterium Production
Cross Section
94-Pu-236
-70.31 To -32.34%
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 3.2000 MeV
n-Pu236.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
0.6
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
94-Pu-236

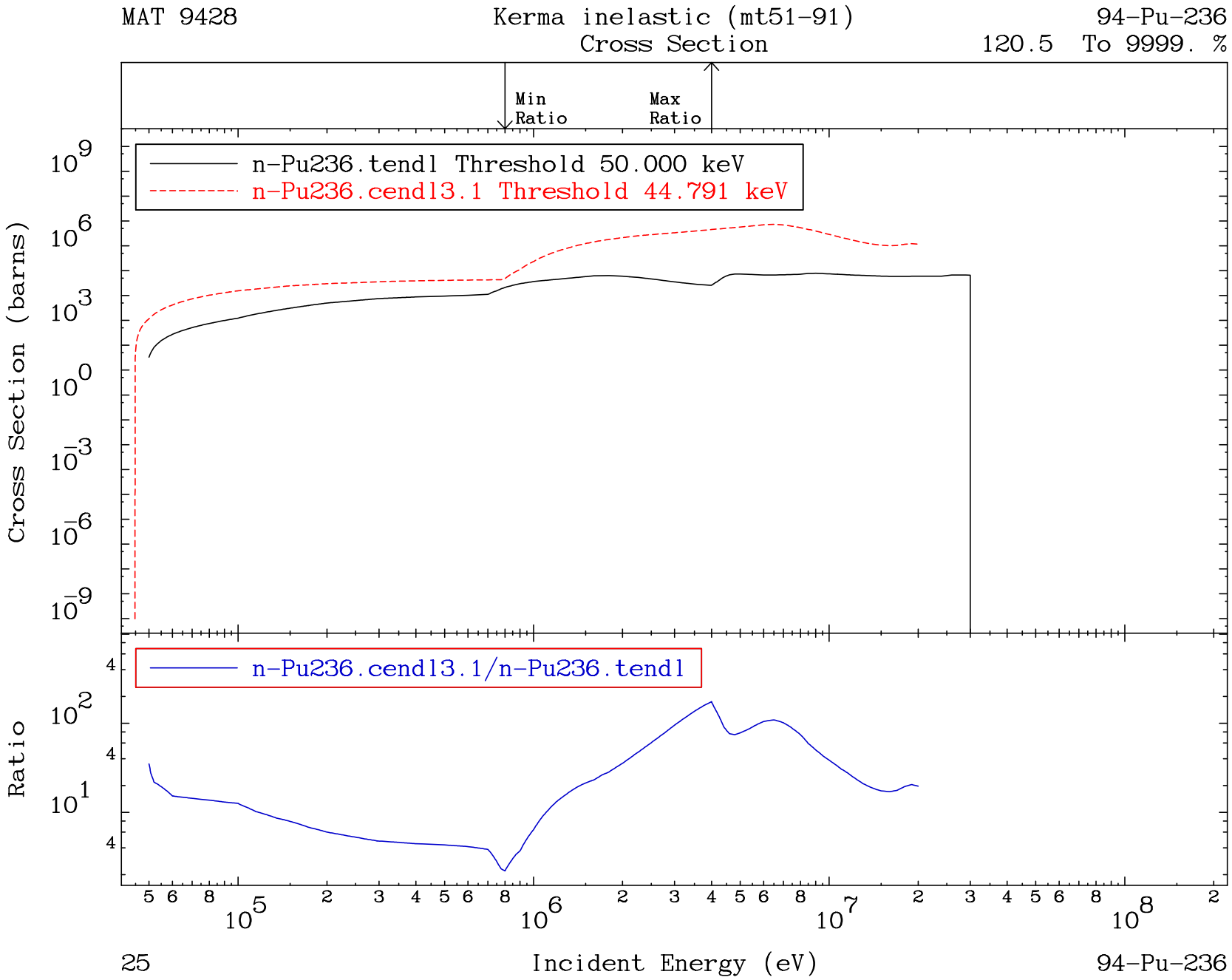

MAT 9428
Tritium Production
Cross Section
94-Pu-236
189.4 To 523.2 %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 3.9486 MeV
n-Pu236.cendl3.1 Threshold 12.500 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
6
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
94-Pu-236

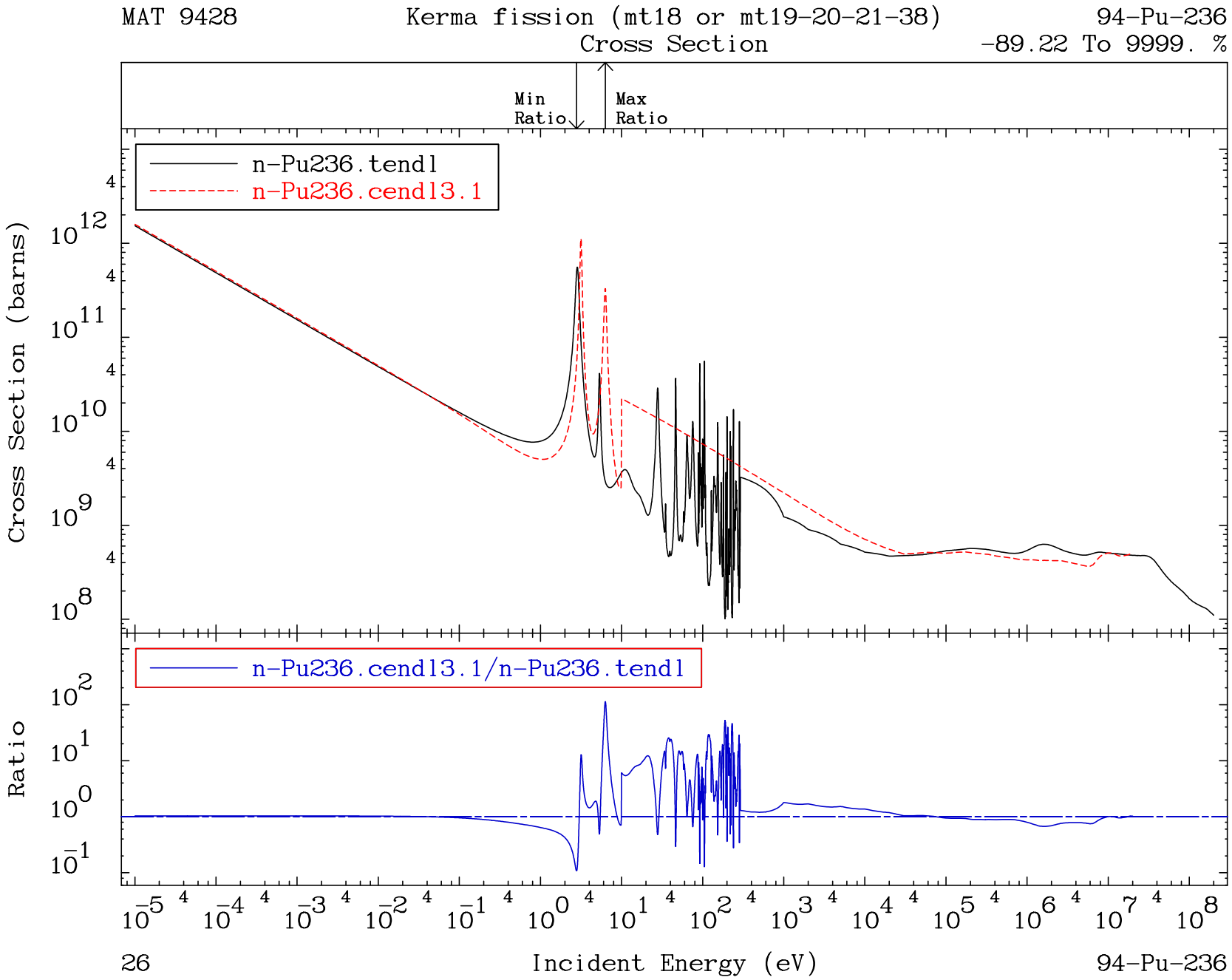

MAT 9428
He-4 Production
Cross Section
94-Pu-236
-54.49 To 40.81 %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1 Threshold 8.0000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
1.6
1.2
0.8
0.4
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
21
Incident Energy (eV)
94-Pu-236

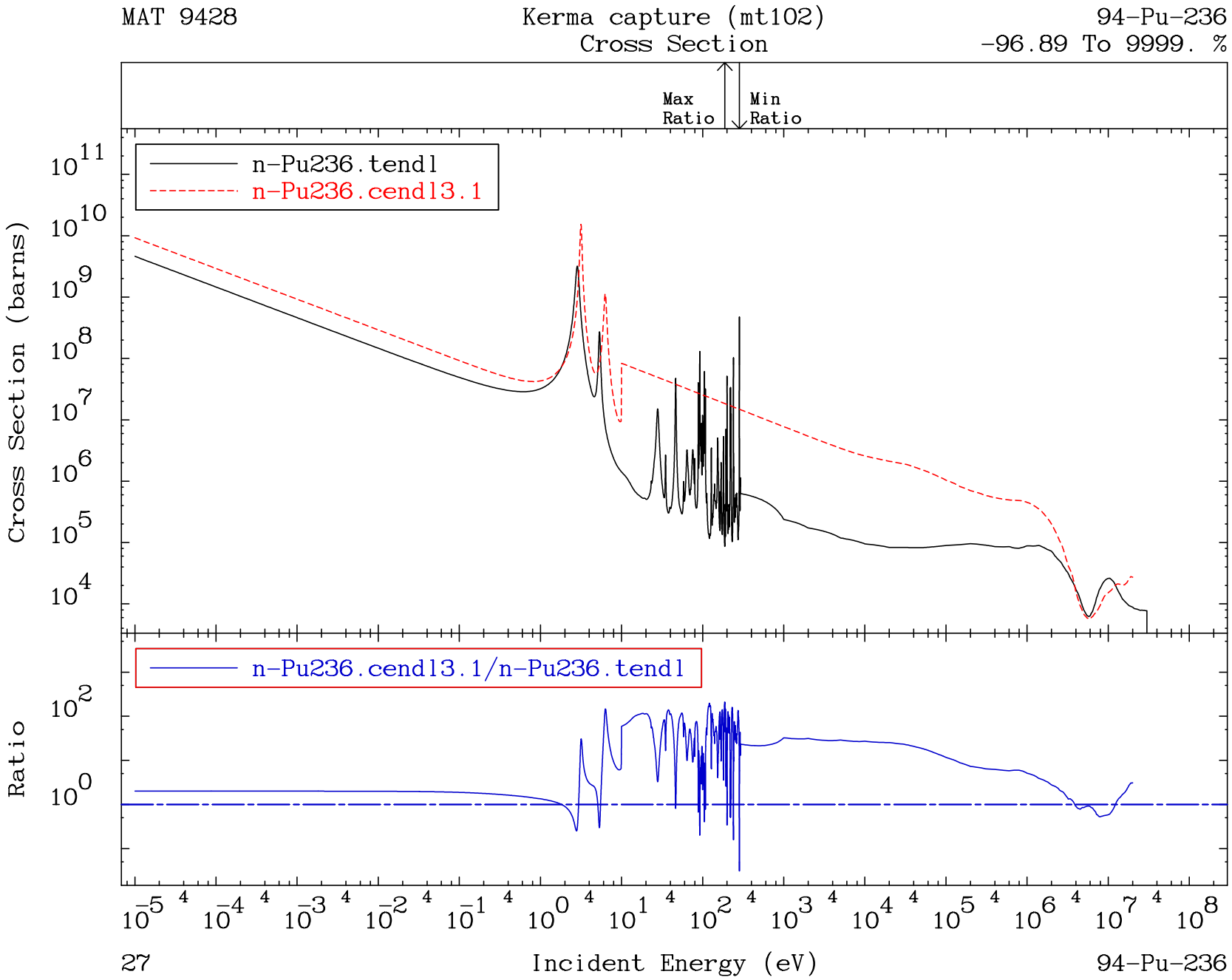

MAT 9428
Kerma total (eV-barns)
Cross Section
94-Pu-236
-89.14 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
22
Incident Energy (eV)
94-Pu-236

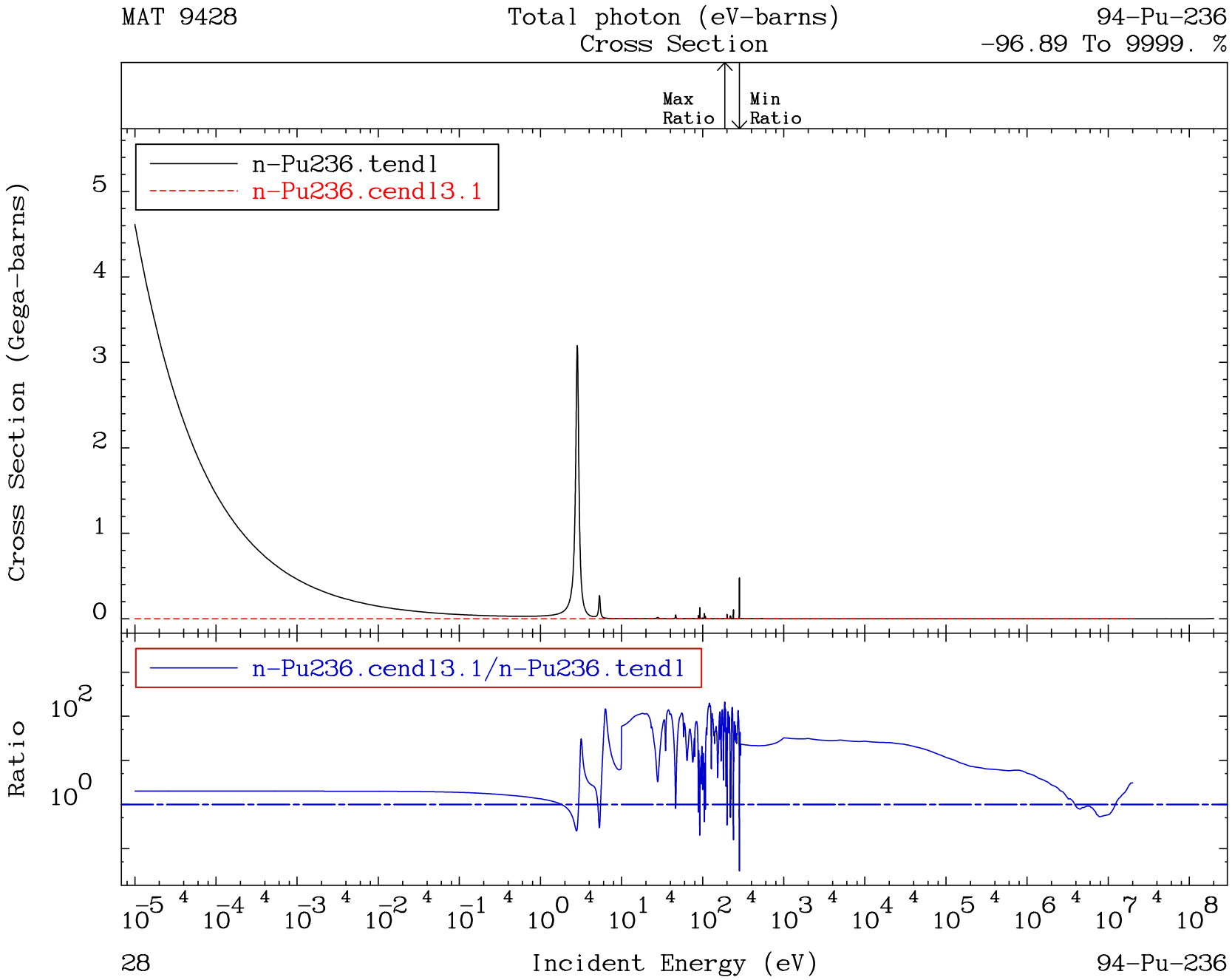

MAT 9428
Kerma elastic
Cross Section
94-Pu-236
-97.44 To 434.6 %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
23
94-Pu-236

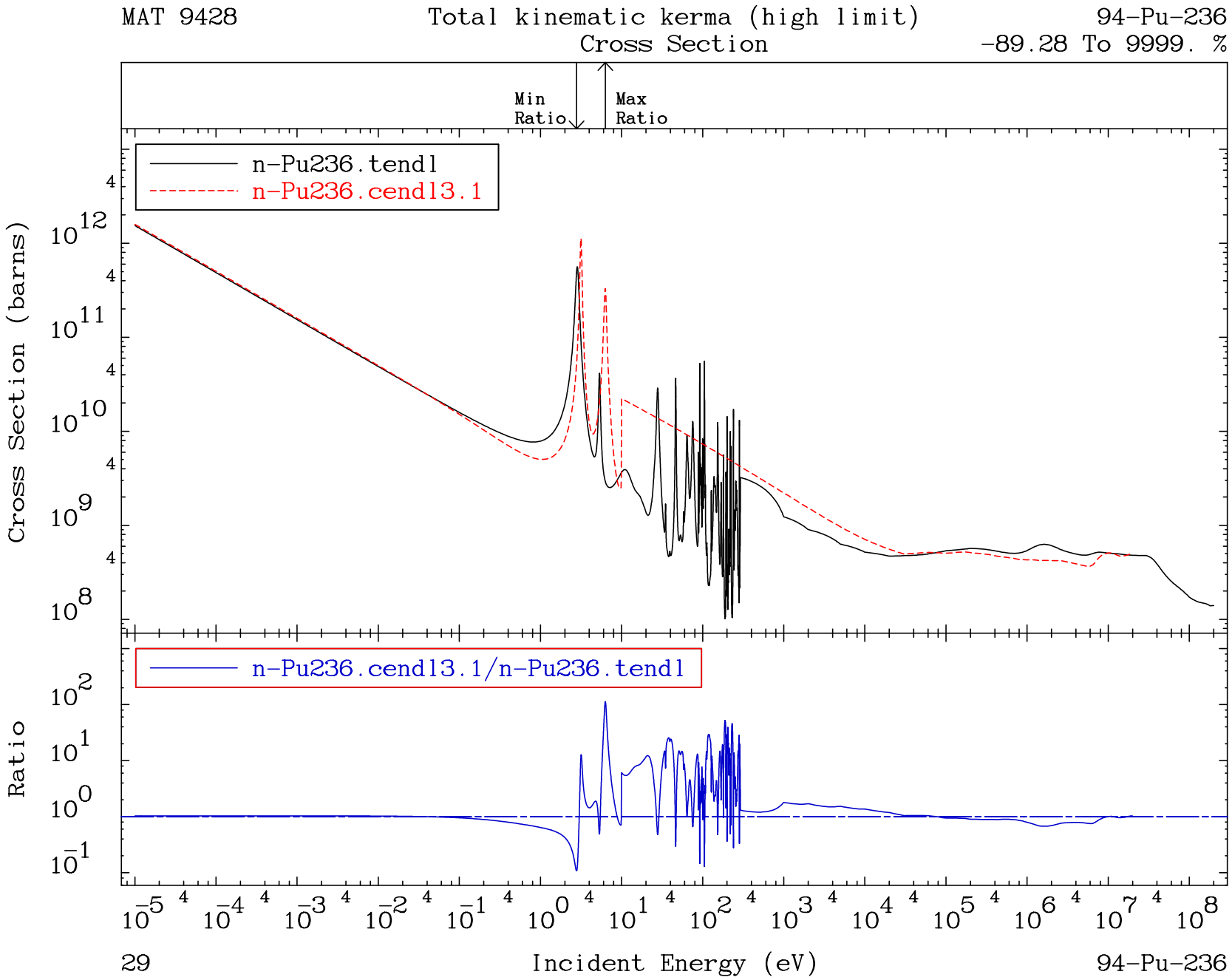

MAT 9428
Kerma non-elastic (all but mt2)
Cross Section
94-Pu-236
-89.14 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
24
94-Pu-236

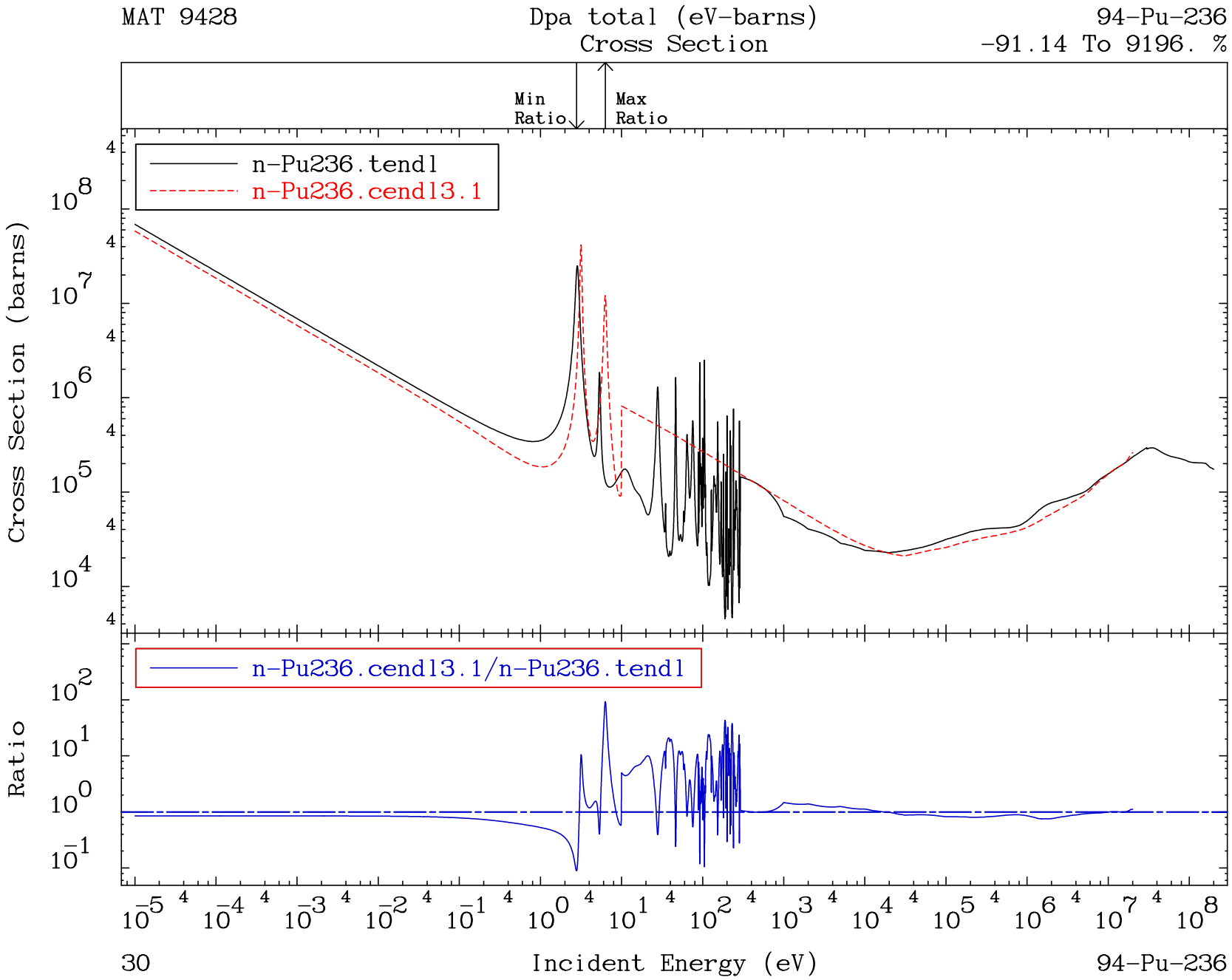

MAT 9428
Kerma inelastic (mt51-91)
Cross Section
94-Pu-236
120.5 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 50.000 keV
n-Pu236.cendl3.1 Threshold 44.791 keV
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
25
94-Pu-236

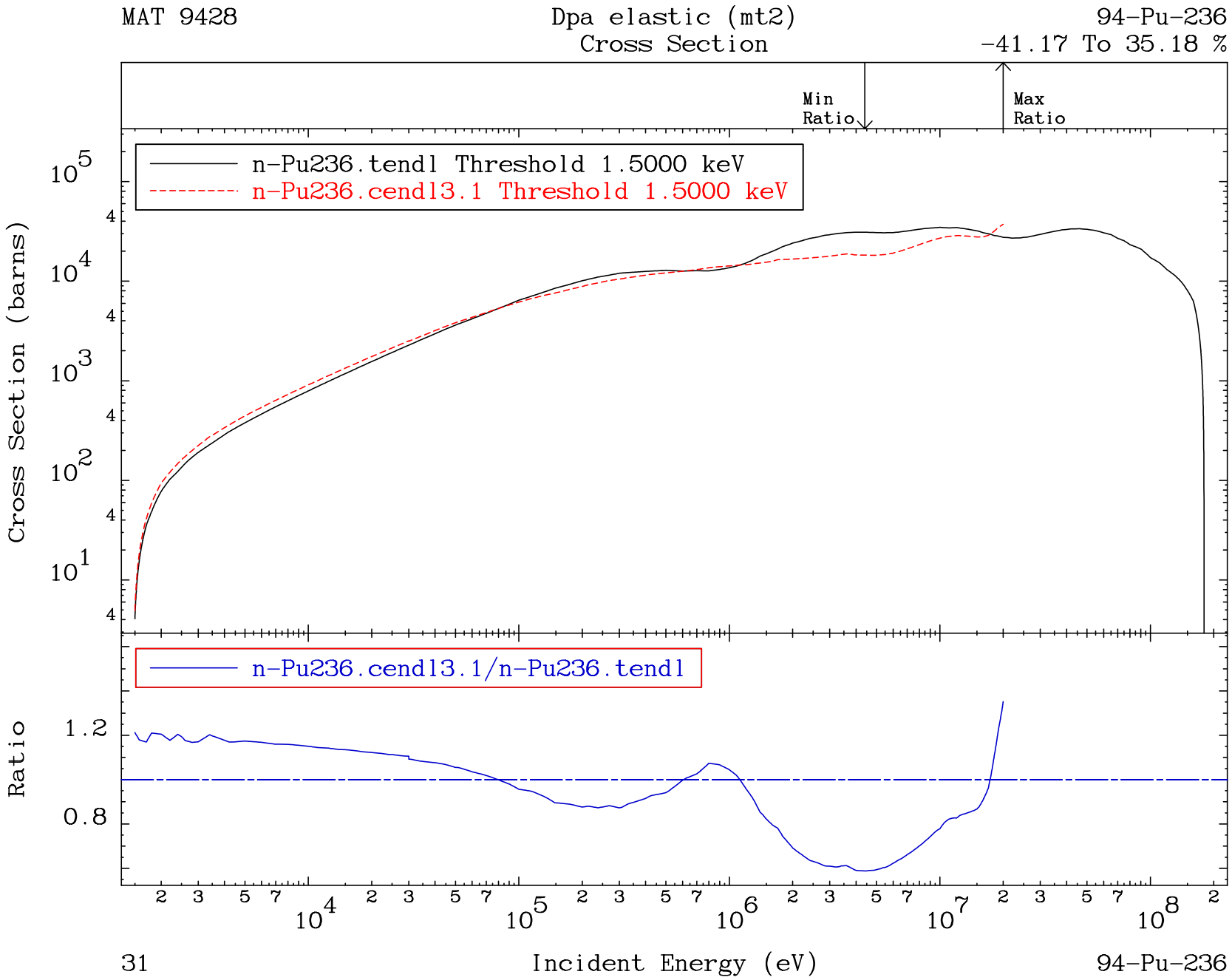

MAT 9428
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
94-Pu-236
-89.22 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
26
94-Pu-236

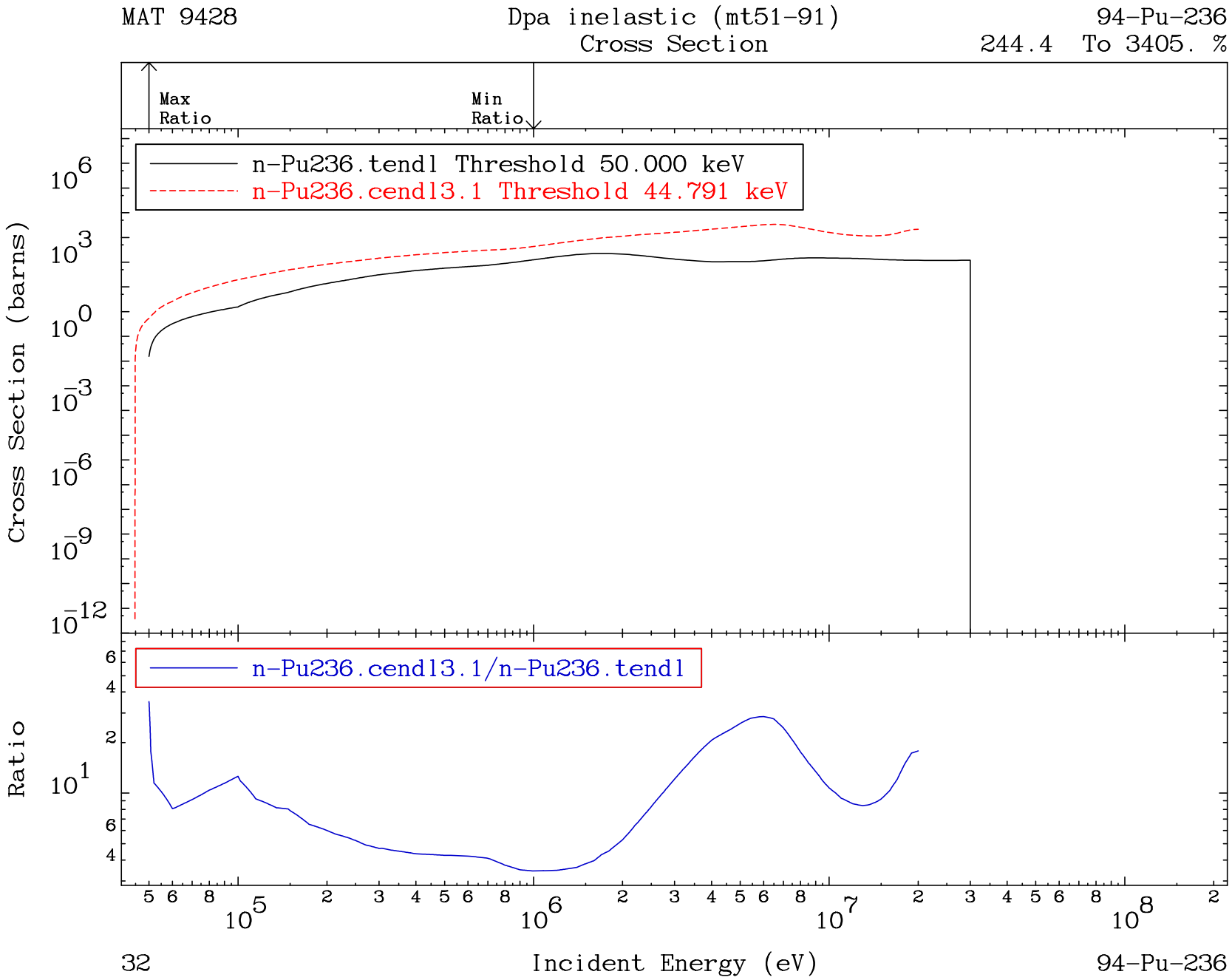

MAT 9428
Kerma capture (mt102)
Cross Section
94-Pu-236
-96.89 To 9999. %
Max Ratio
Min Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
Ratio
n-Pu236.cendl3.1/n-Pu236.tendl
Incident Energy (eV)
27
94-Pu-236

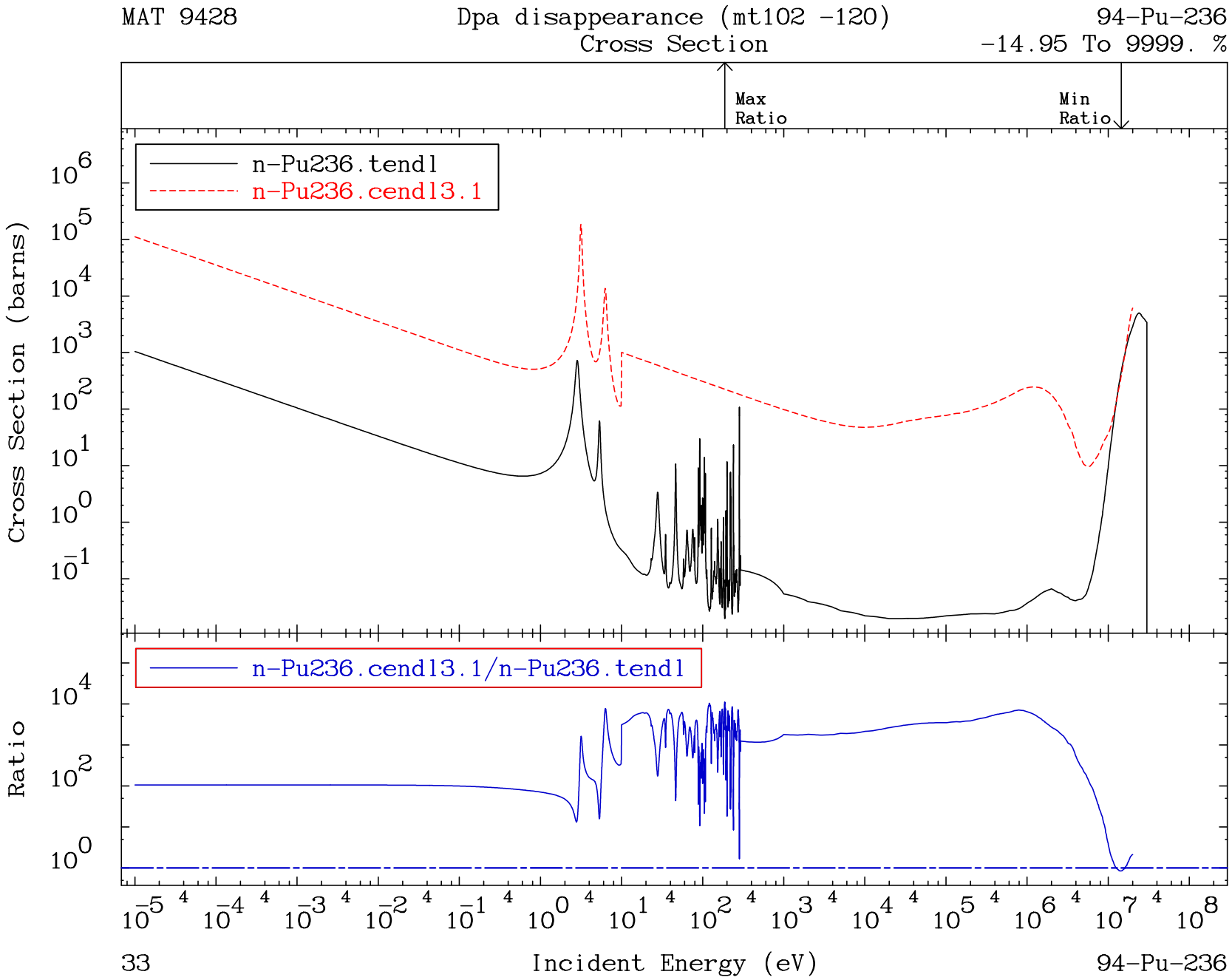

MAT 9428
Total photon (eV-barns)
Cross Section
94-Pu-236
-96.89 To 9999. %
Max Ratio
Min Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (Giga-barns)
0
1
2
3
4
5
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
10^{2}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
28
Incident Energy (eV)
94-Pu-236


MAT 9428
Total kinematic kerma (high limit)
Cross Section
94-Pu-236
-89.28 To 9999. %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
29
94-Pu-236


MAT 9428
Dpa total (eV-barns)
Cross Section
94-Pu-236
-91.14 To 9196. %
Min Ratio
Max Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
30
94-Pu-236


MAT 9428
Dpa elastic (mt2)
Cross Section
94-Pu-236
-41.17 To 35.18 %
Min Ratio
Max Ratio
n-Pu236.tendl Threshold 1.5000 keV
n-Pu236.cendl3.1 Threshold 1.5000 keV
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
31
94-Pu-236


MAT 9428
Dpa inelastic (mt51-91)
Cross Section
94-Pu-236
244.4 To 3405. %
Max Ratio
Min Ratio
n-Pu236.tendl Threshold 50.000 keV
n-Pu236.cendl3.1 Threshold 44.791 keV
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
Incident Energy (eV)
32
94-Pu-236


MAT 9428
Dpa disappearance (mt102 -120)
Cross Section
94-Pu-236
-14.95 To 9999. %
Max Ratio
Min Ratio
n-Pu236.tendl
n-Pu236.cendl3.1
Cross Section (barns)
n-Pu236.cendl3.1/n-Pu236.tendl
Ratio
33
Incident Energy (eV)
94-Pu-236