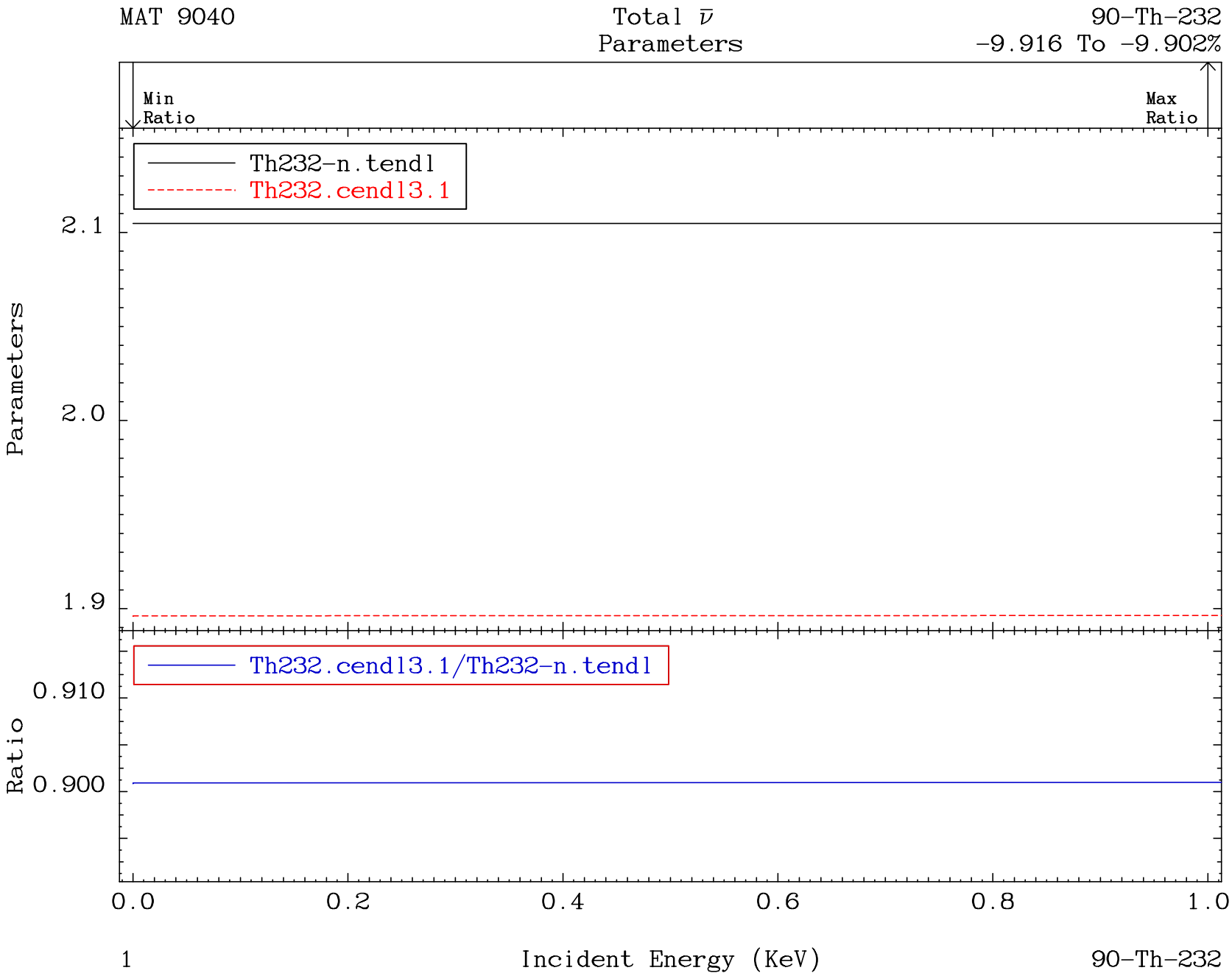
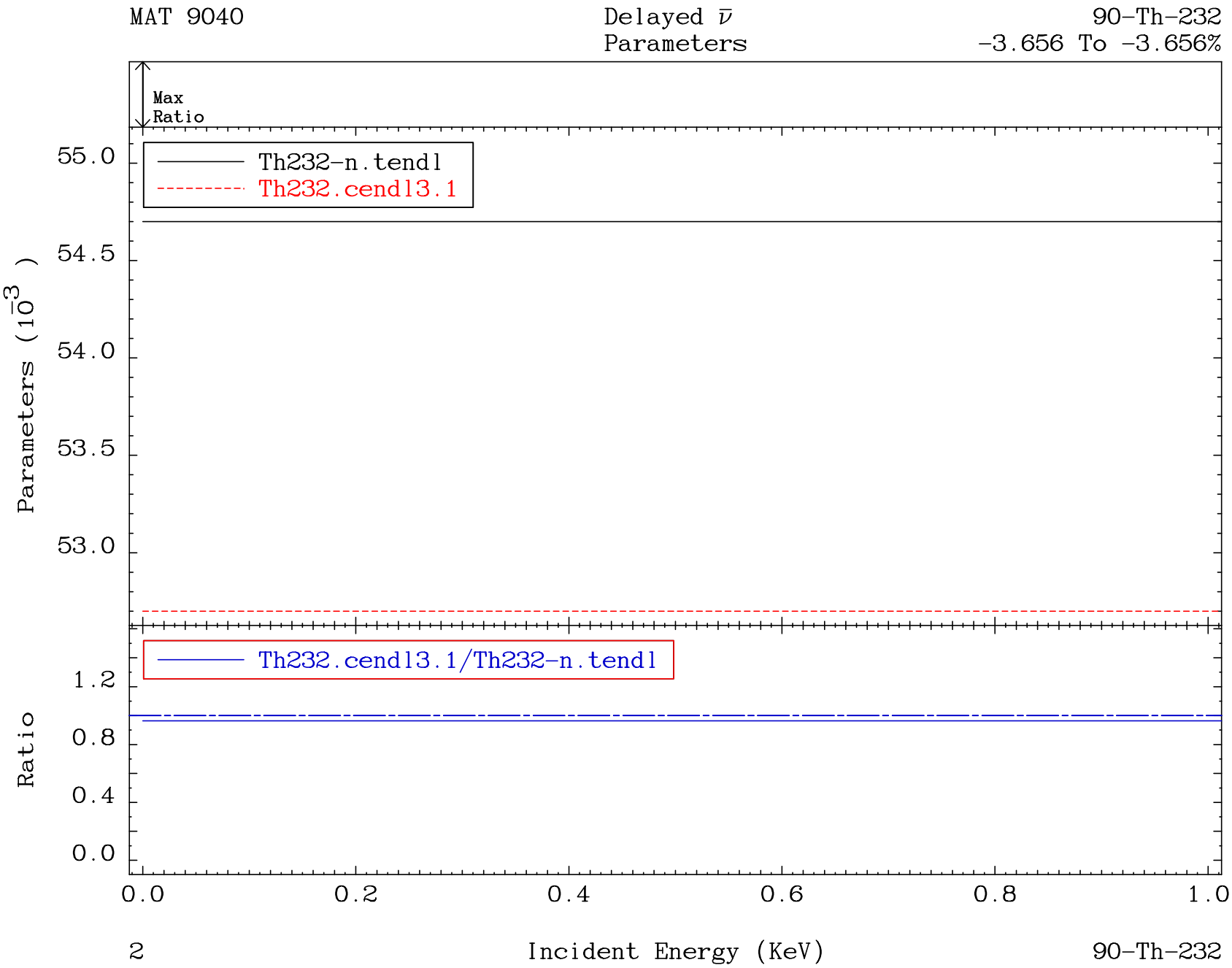
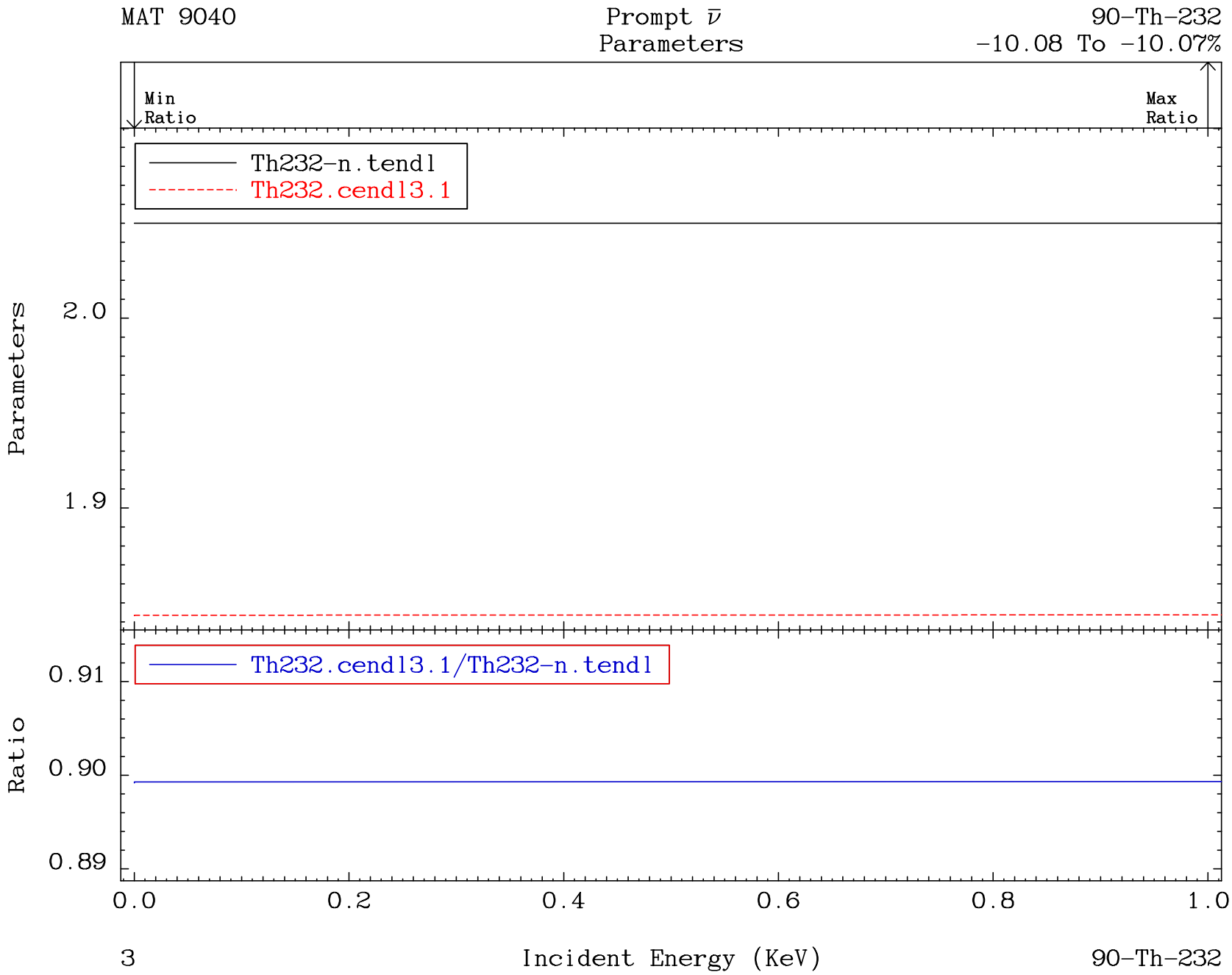
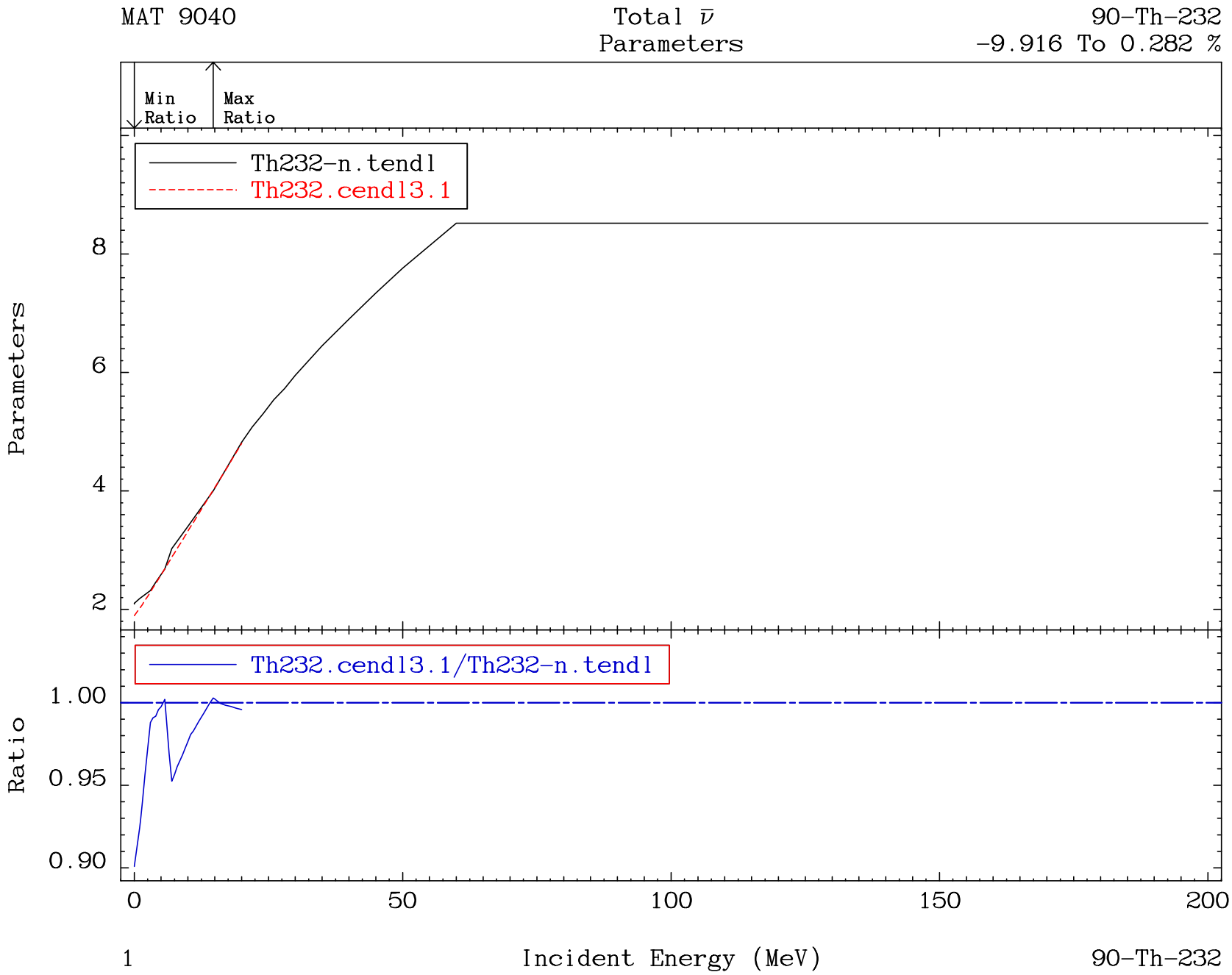
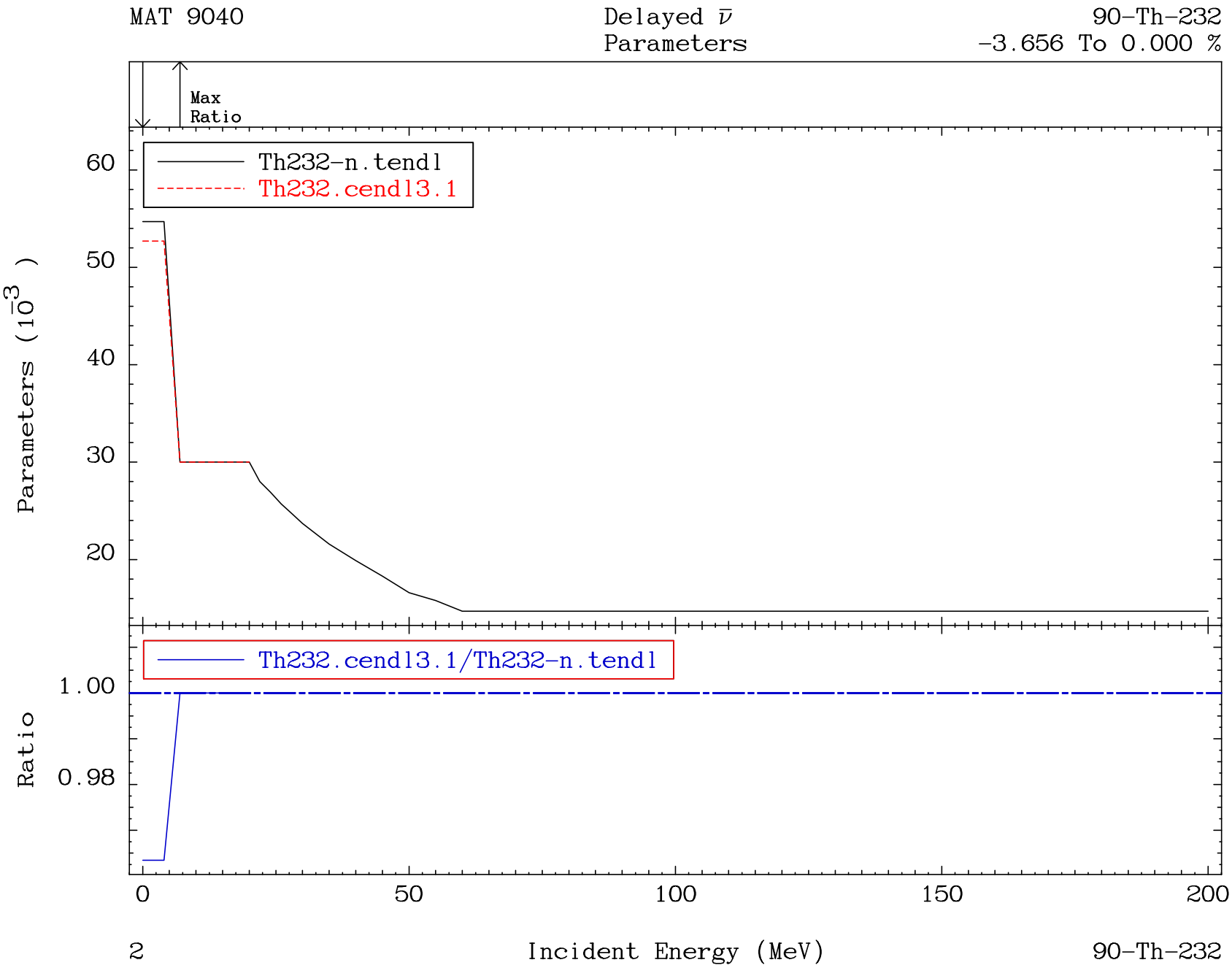
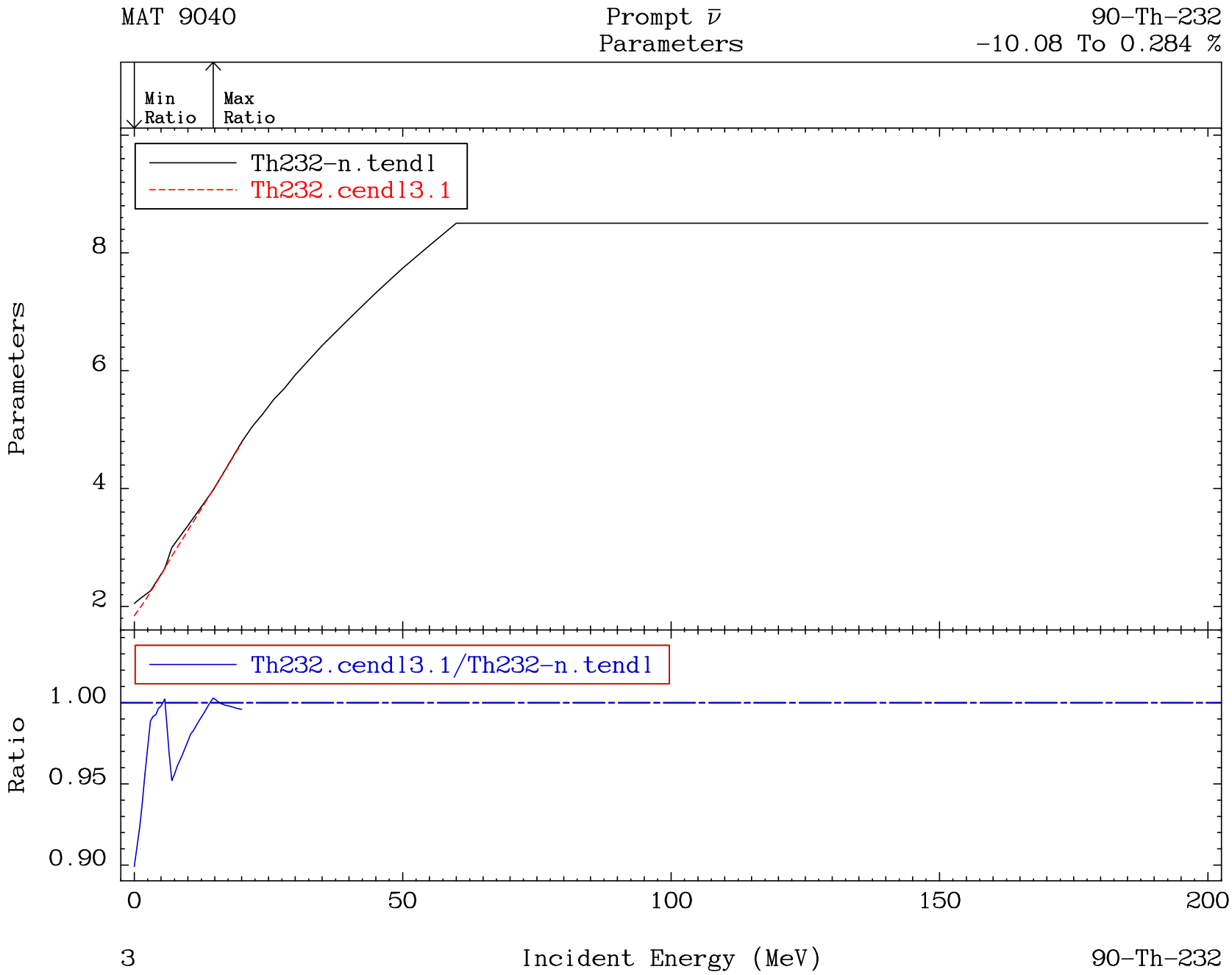

MAT 9040
Total $\bar{\nu}$
Parameters
90-Th-232
-9.916 To -9.902%
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Th232.cendl3.1/Th232-n.tendl
Parameters
Ratio
2.1
2.0
1.9
0.910
0.900
0.0
0.2
0.4
0.6
0.8
1.0
1
Incident Energy (KeV)
90-Th-232

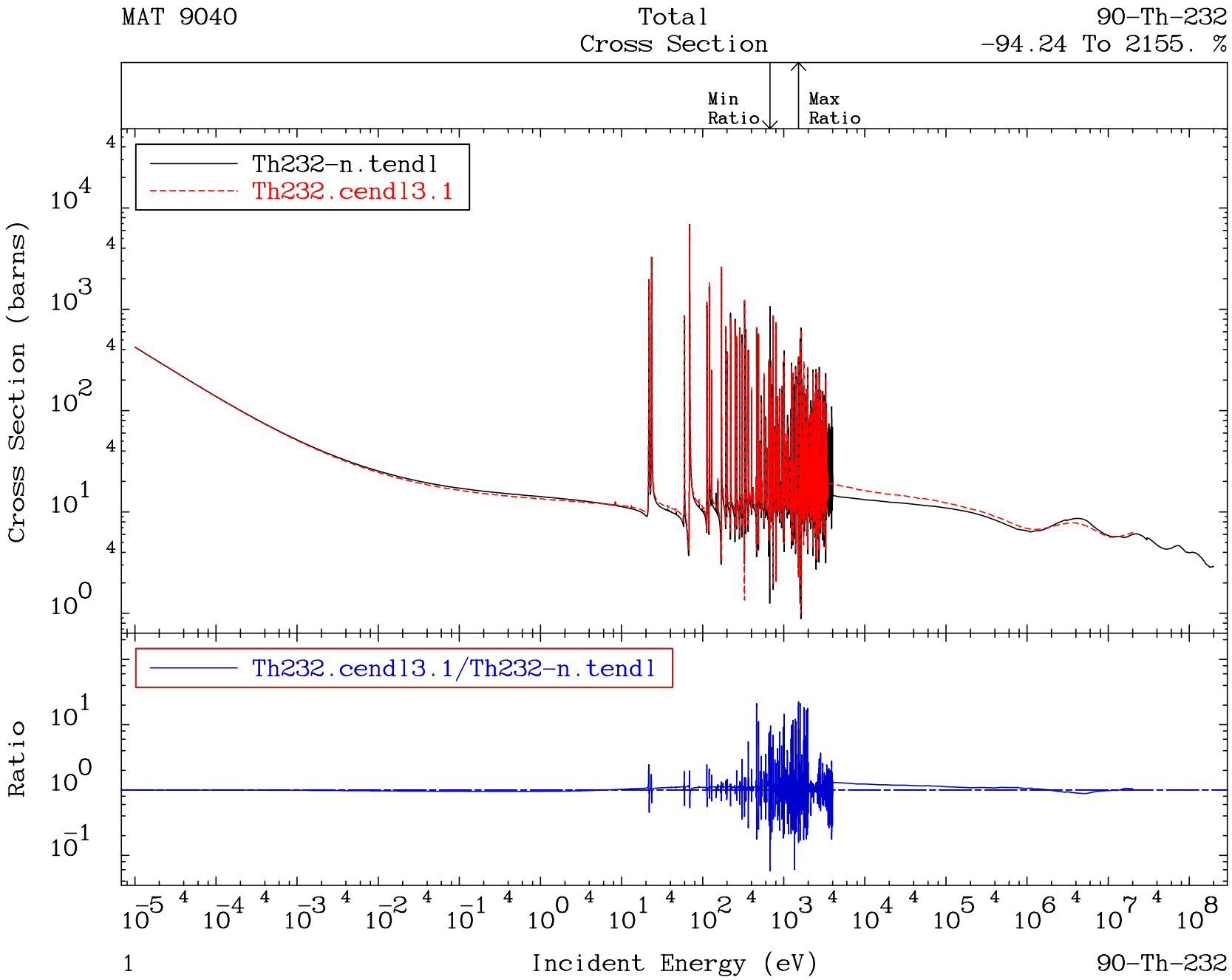

MAT 9040
Delayed $\bar{\nu}$
Parameters
90-Th-232
-3.656 To -3.656%
Max
Ratio
Th232-n.tendl
Th232.cendl3.1
55.0
54.5
54.0
53.5
53.0
Parameters (10^{-3})
Th232.cendl3.1/Th232-n.tendl
1.2
0.8
0.4
0.0
Ratio
0.0
0.2
0.4
0.6
0.8
1.0
2
Incident Energy (KeV)
90-Th-232

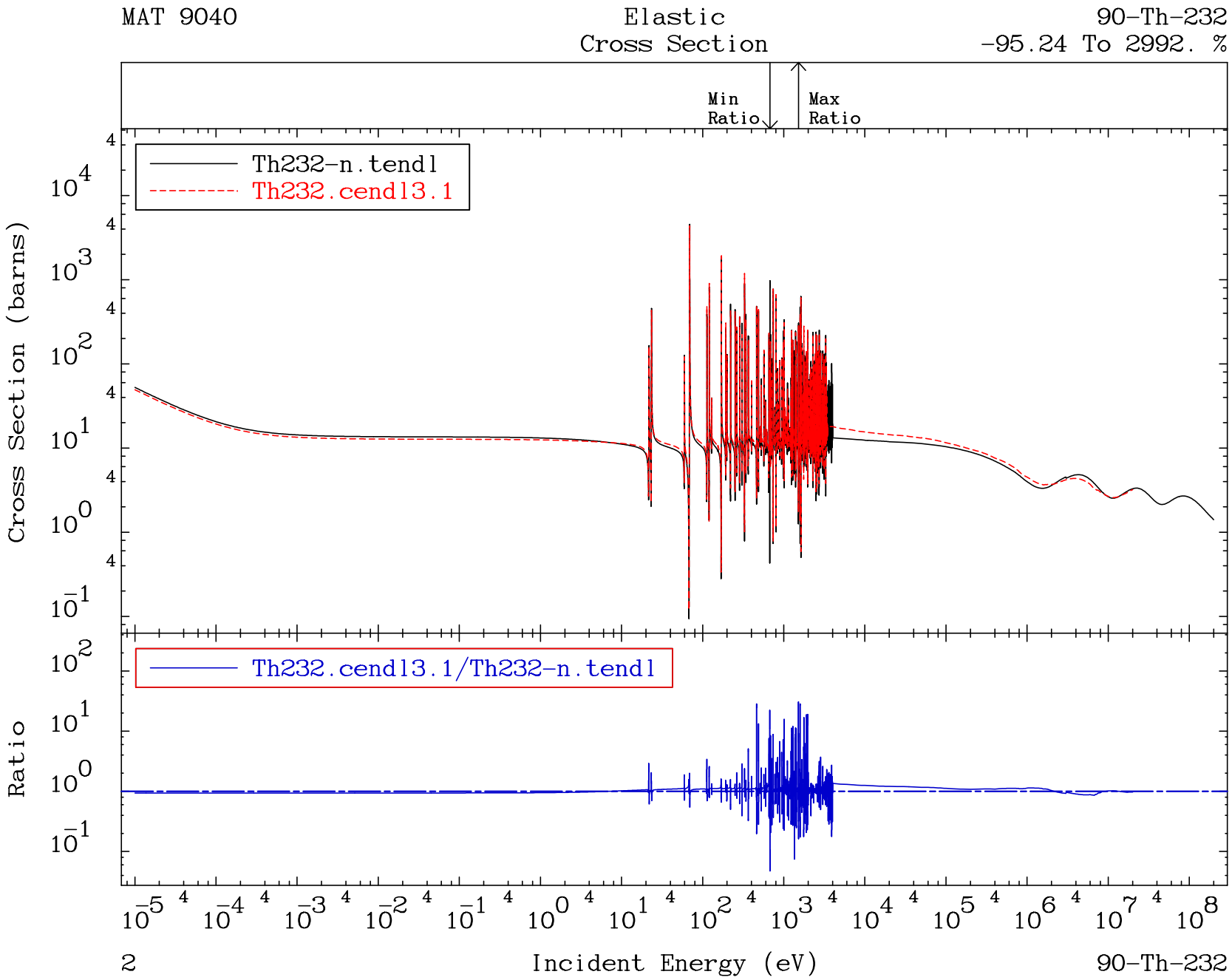

MAT 9040
Prompt $\bar{\nu}$
Parameters
90-Th-232
-10.08 To -10.07%
Min
Ratio
Max
Ratio
Th232-n.tendl
Th232.cendl3.1
Parameters
2.0
1.9
Th232.cendl3.1/Th232-n.tendl
Ratio
0.91
0.90
0.89
0.0
0.2
0.4
0.6
0.8
1.0
3
Incident Energy (KeV)
90-Th-232

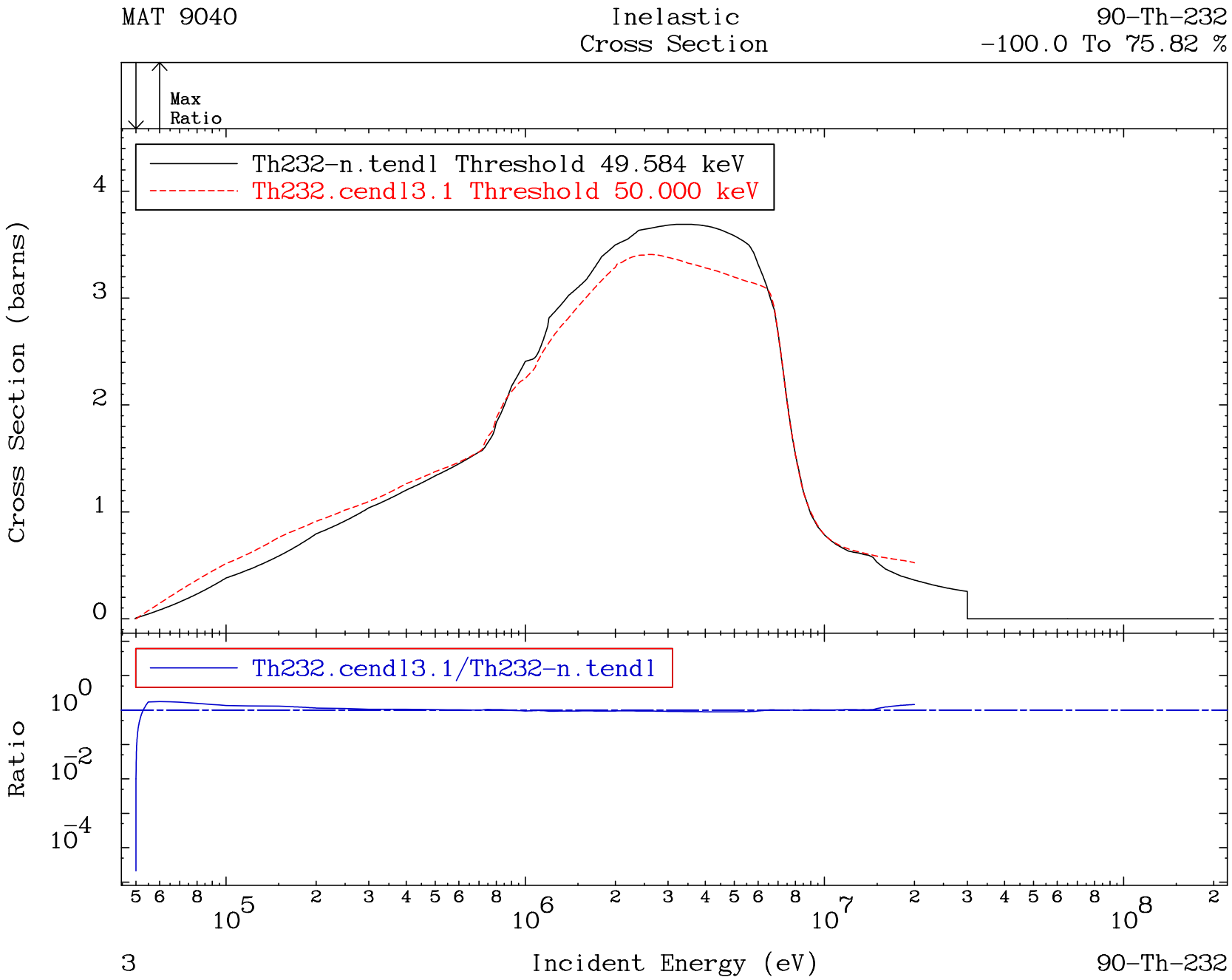

MAT 9040
Total $\bar{\nu}$
Parameters
90-Th-232
-9.916 To 0.282 %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Parameters
8
6
4
2
Th232.cendl3.1/Th232-n.tendl
Ratio
1.00
0.95
0.90
0
50
100
150
200
1
Incident Energy (MeV)
90-Th-232

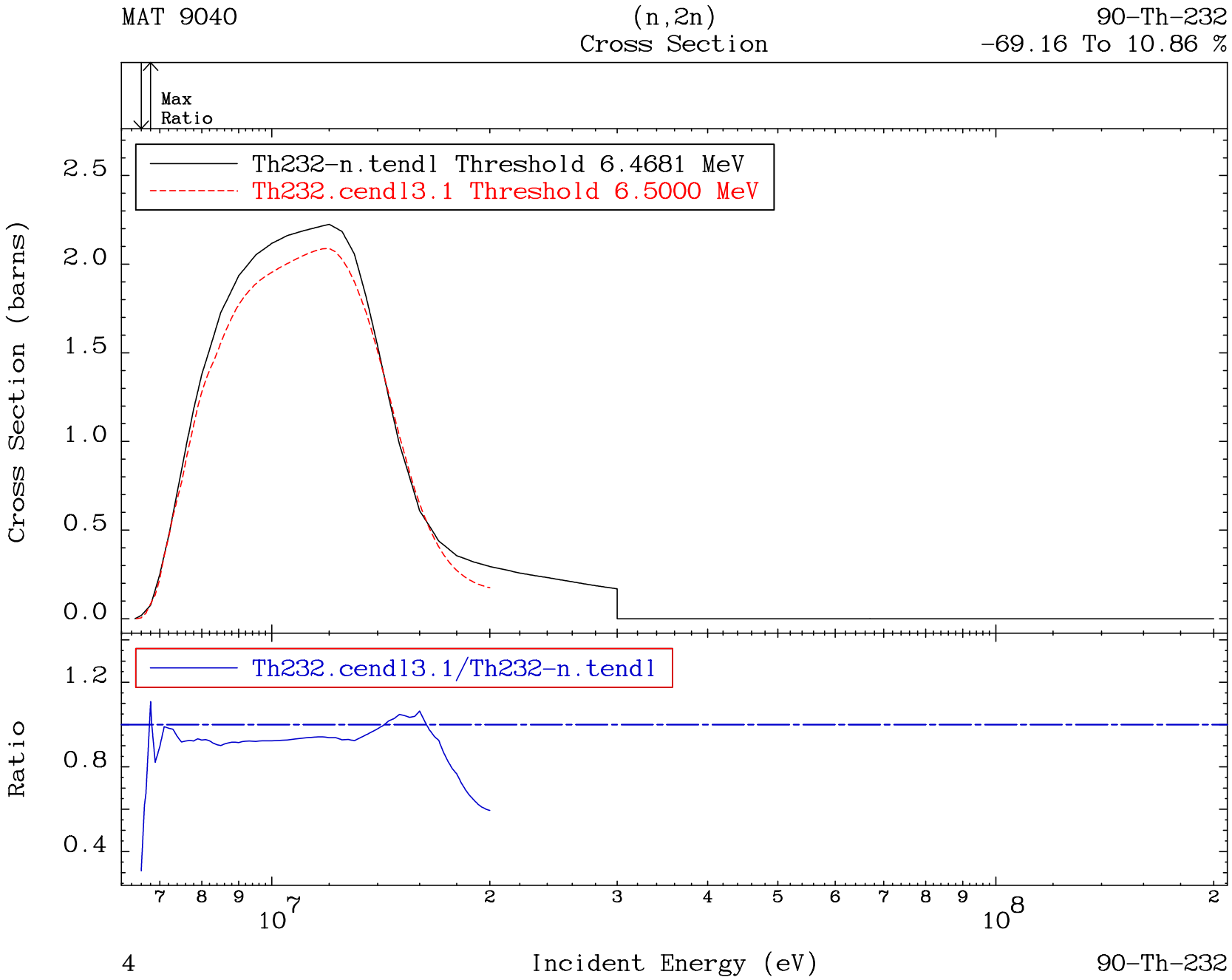

MAT 9040
Delayed $\bar{\nu}$
Parameters
90-Th-232
-3.656 To 0.000 %
Max
Ratio
Th232-n.tendl
Th232.cendl3.1
Parameters (10^{-3})
60
50
40
30
20
Th232.cendl3.1/Th232-n.tendl
Ratio
1.00
0.98
0
50
100
150
200
2
Incident Energy (MeV)
90-Th-232

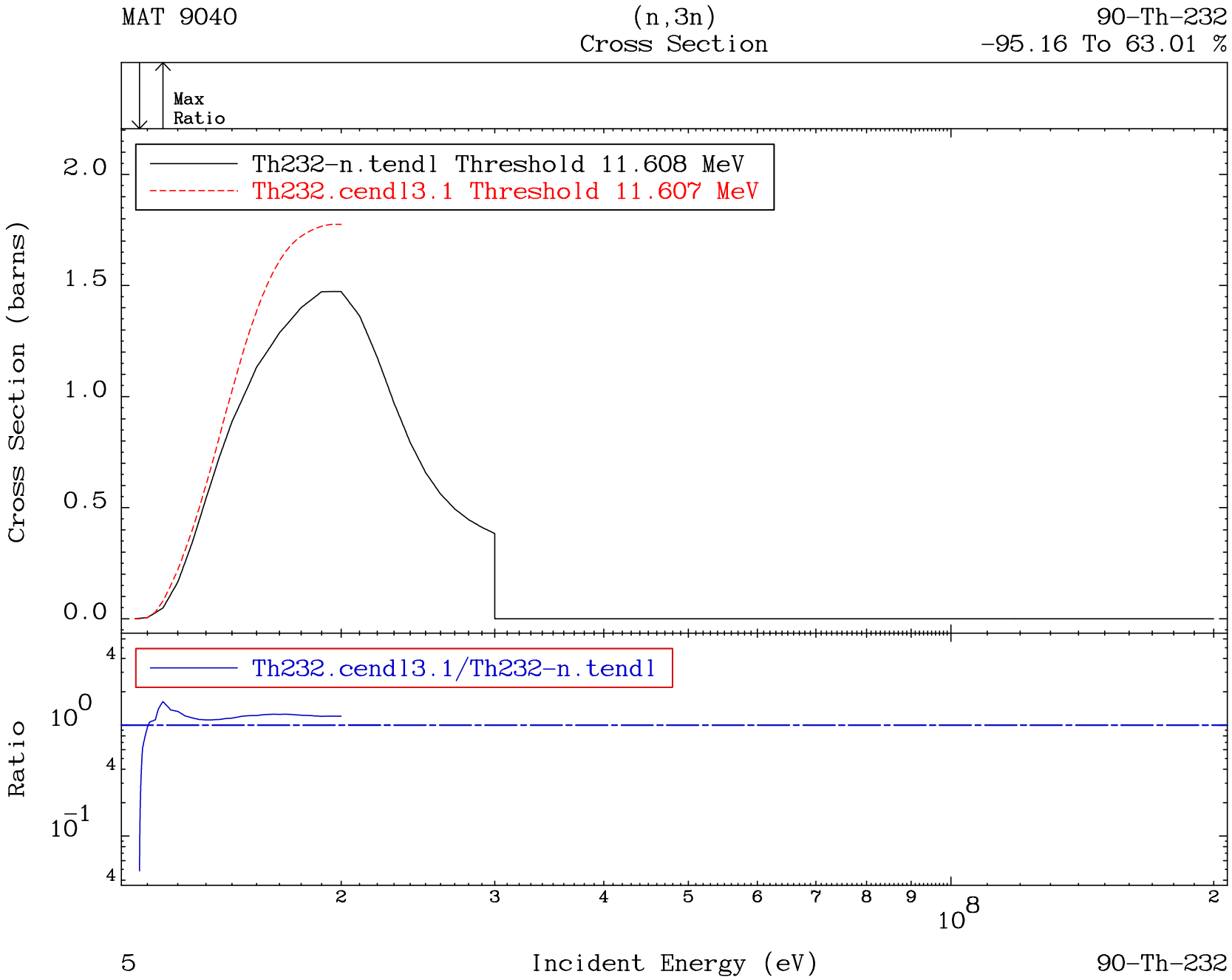

MAT 9040
Prompt $\bar{\nu}$
Parameters
90-Th-232
-10.08 To 0.284 %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Parameters
8
6
4
2
Th232.cendl3.1/Th232-n.tendl
Ratio
1.00
0.95
0.90
0
50
100
150
200
3
Incident Energy (MeV)
90-Th-232

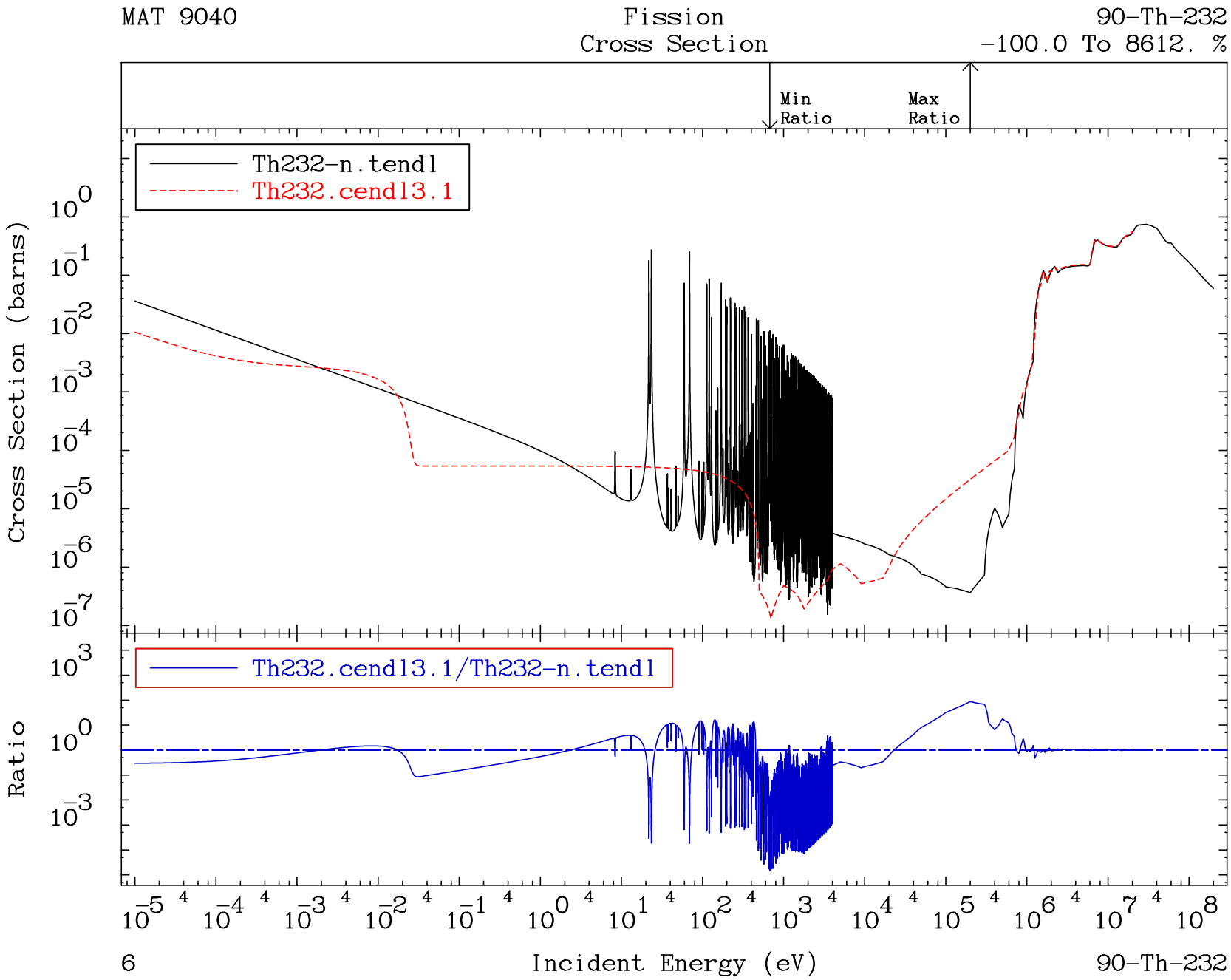

MAT 9040
Total
Cross Section
90-Th-232
-94.24 To 2155. %
Min
Ratio
Max
Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
1
90-Th-232

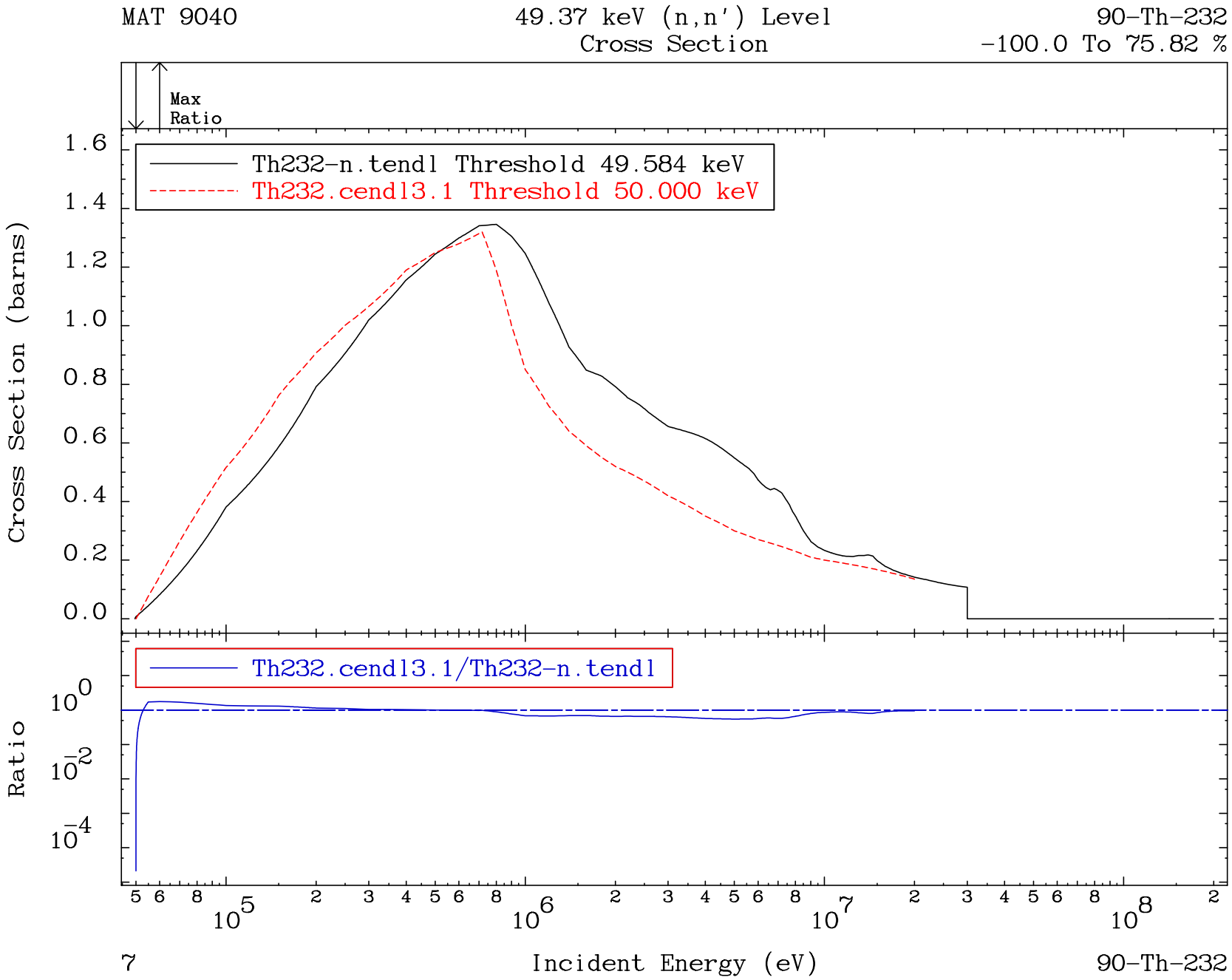

MAT 9040
Elastic
Cross Section
90-Th-232
-95.24 To 2992. %
Min
Ratio
Max
Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
2
90-Th-232

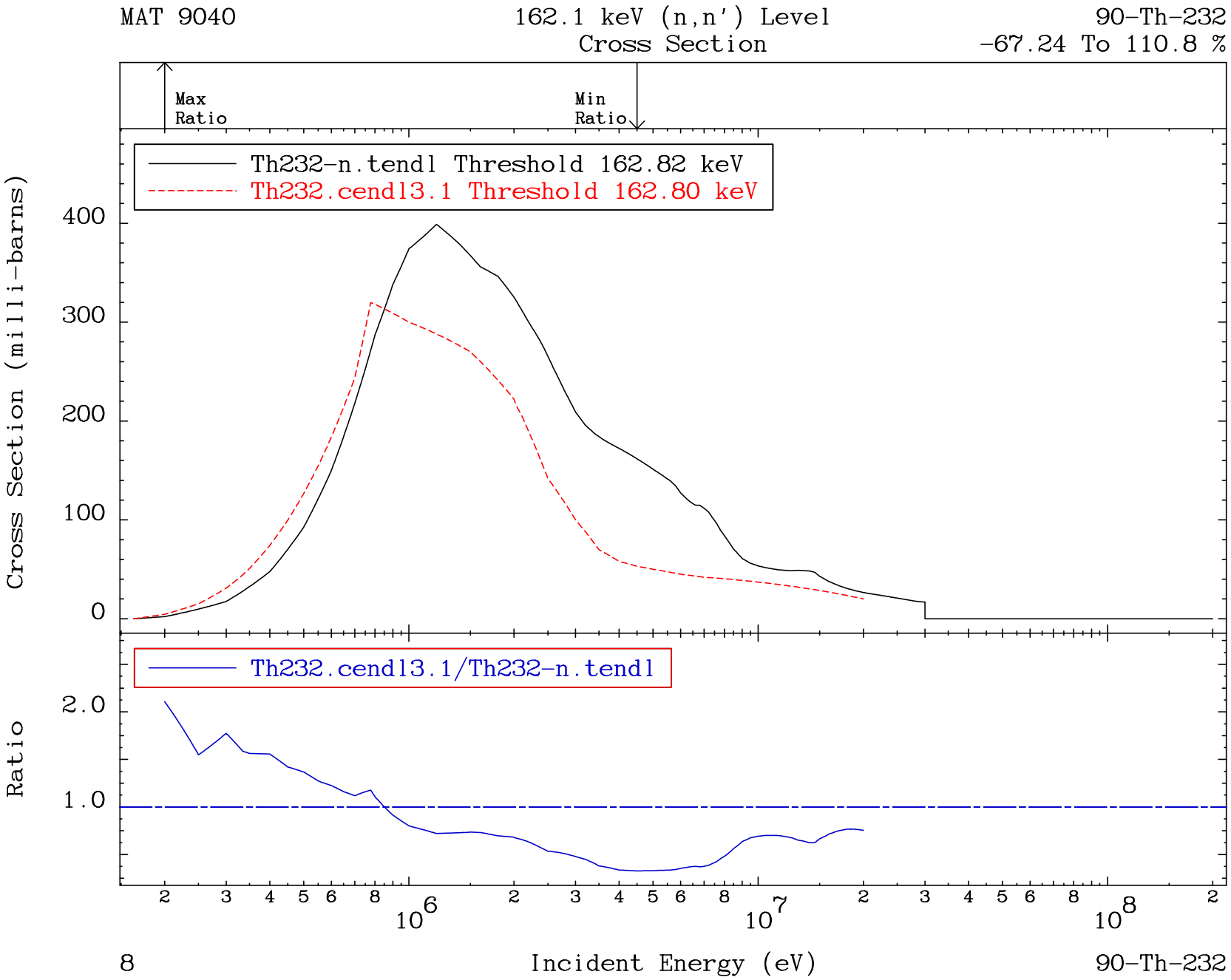

MAT 9040
Inelastic
Cross Section
90-Th-232
-100.0 To 75.82 %
Max
Ratio
Th232-n.tendl Threshold 49.584 keV
Th232.cendl3.1 Threshold 50.000 keV
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
3
90-Th-232

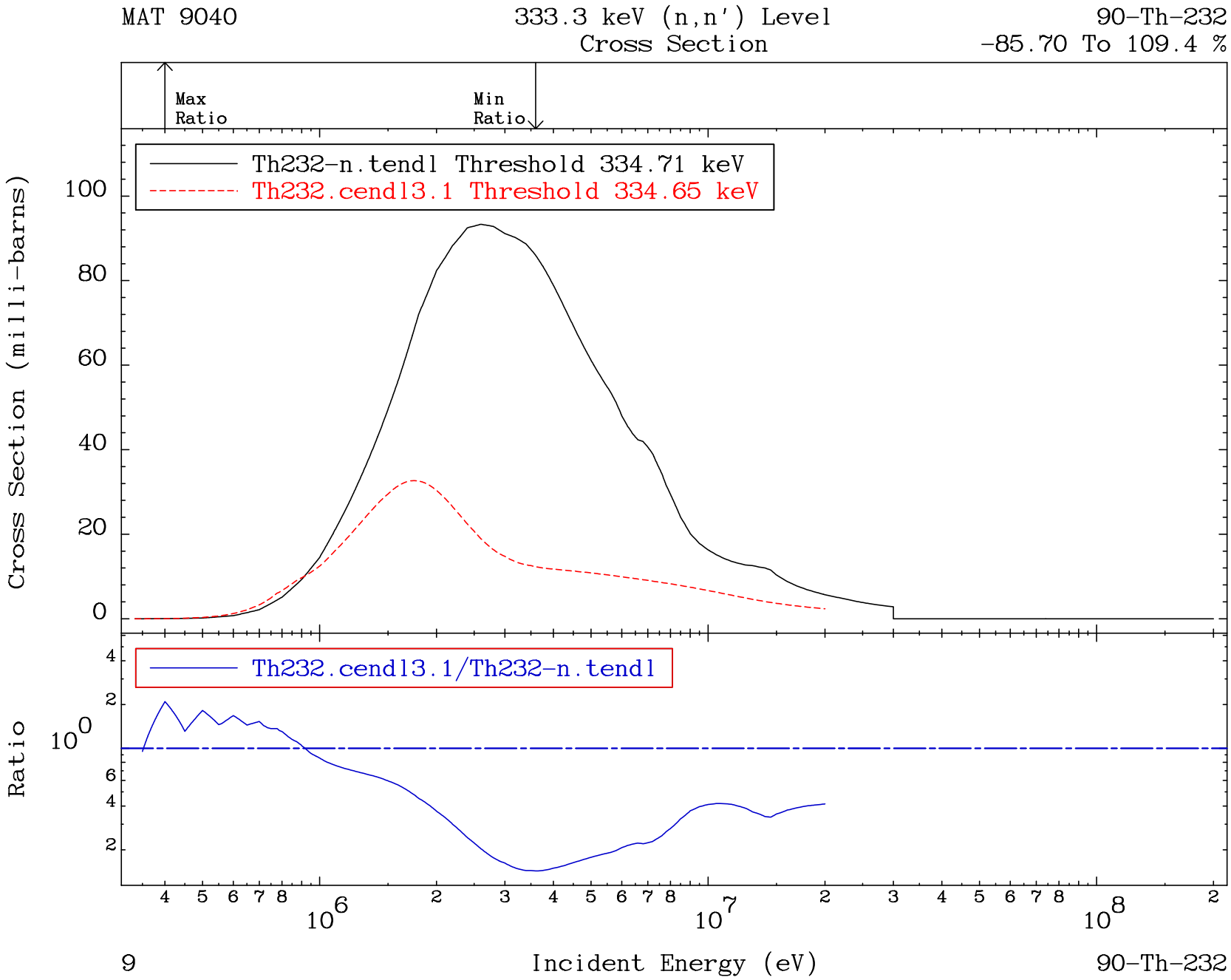

MAT 9040
(n,2n)
Cross Section
90-Th-232
-69.16 To 10.86 %
Max
Ratio
Th232-n.tendl Threshold 6.4681 MeV
Th232.cendl3.1 Threshold 6.5000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
Th232.cendl3.1/Th232-n.tendl
Ratio
1.2
0.8
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
90-Th-232

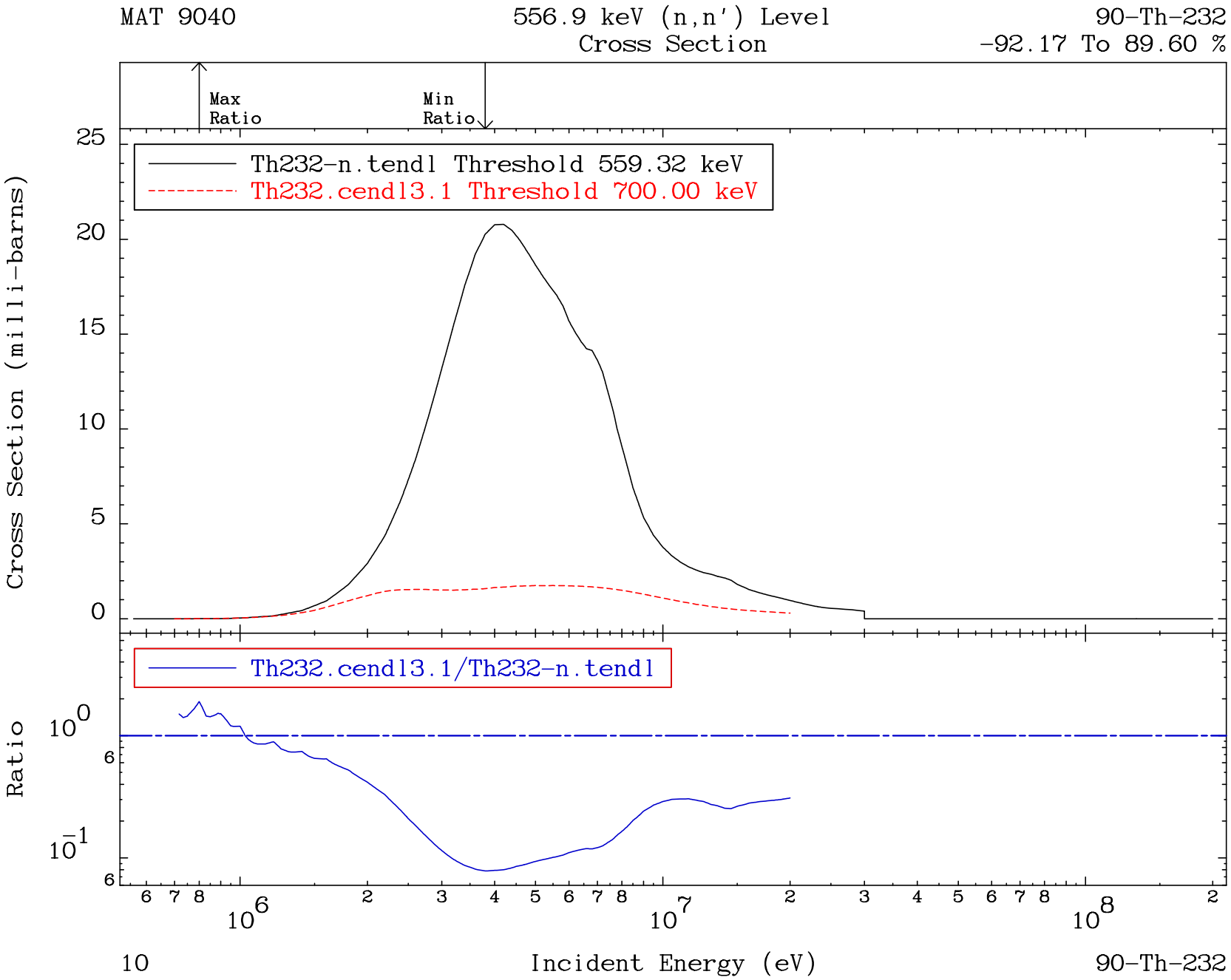

MAT 9040
(n,3n)
Cross Section
90-Th-232
-95.16 To 63.01 %
Max
Ratio
Th232-n.tendl Threshold 11.608 MeV
Th232.cendl3.1 Threshold 11.607 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
Th232.cendl3.1/Th232-n.tendl
Ratio
4
10^0
4
10^-1
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
90-Th-232

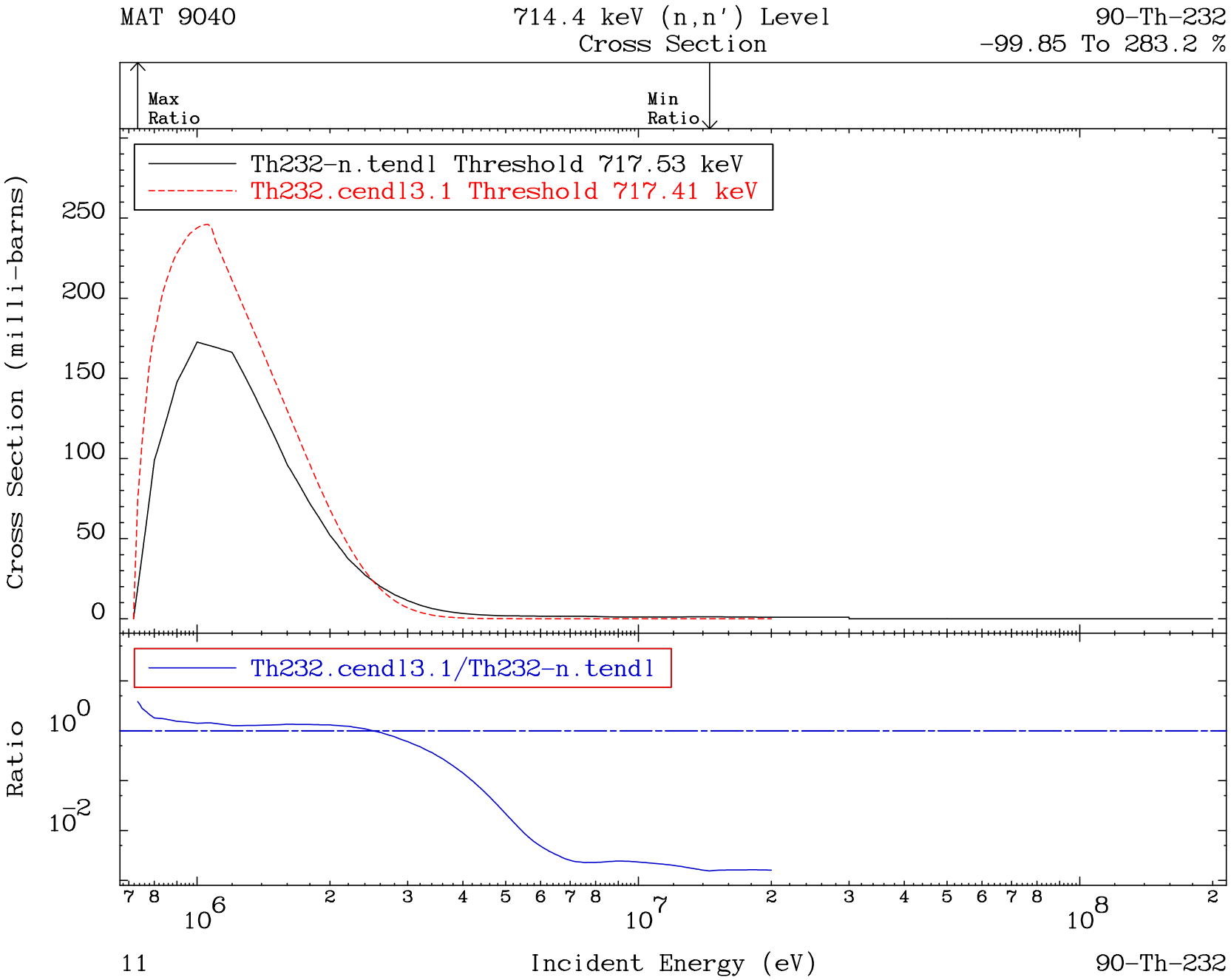

MAT 9040
Fission
Cross Section
90-Th-232
-100.0 To 8612. %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
6
90-Th-232

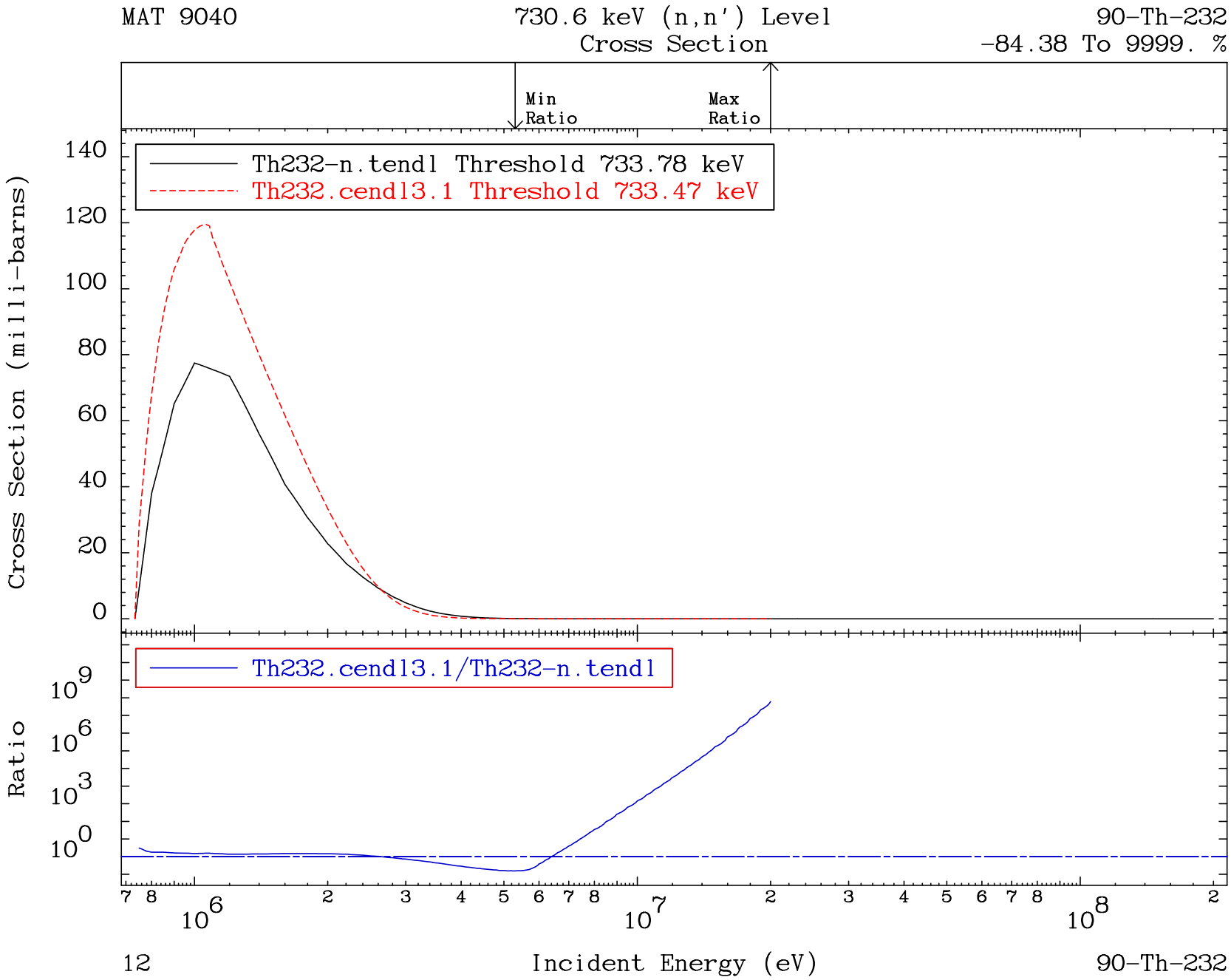

MAT 9040
49.37 keV (n,n') Level
Cross Section
90-Th-232
-100.0 To 75.82 %
Max
Ratio
Th232-n.tendl Threshold 49.584 keV
Th232.cendl3.1 Threshold 50.000 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^0
10^-2
10^-4
5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
7
Incident Energy (eV)
90-Th-232

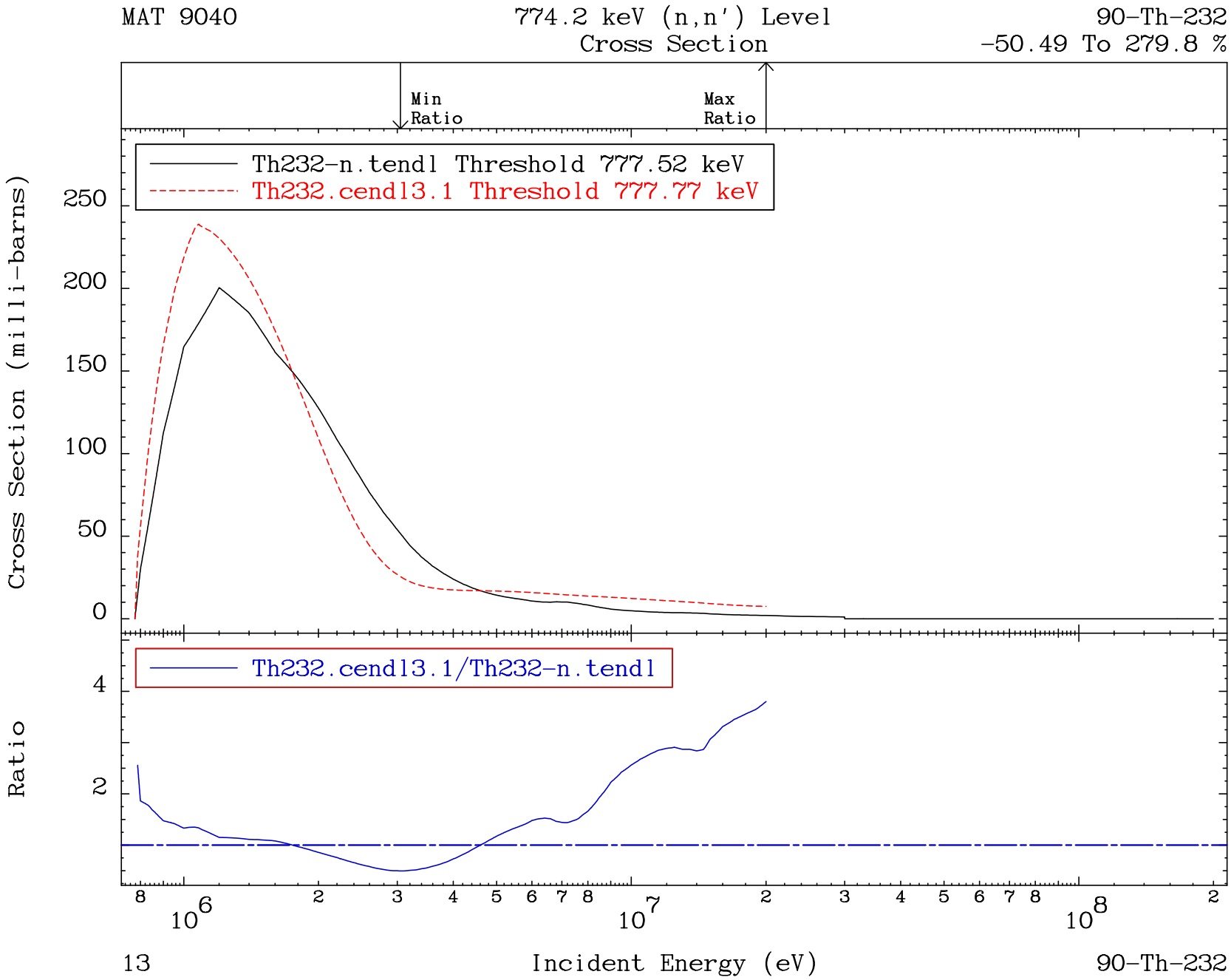

MAT 9040
162.1 keV (n,n') Level
Cross Section
90-Th-232
-67.24 To 110.8 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 162.82 keV
Th232.cendl3.1 Threshold 162.80 keV
Cross Section (milli-barns)
400
300
200
100
0
Th232.cendl3.1/Th232-n.tendl
Ratio
2.0
1.0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
90-Th-232

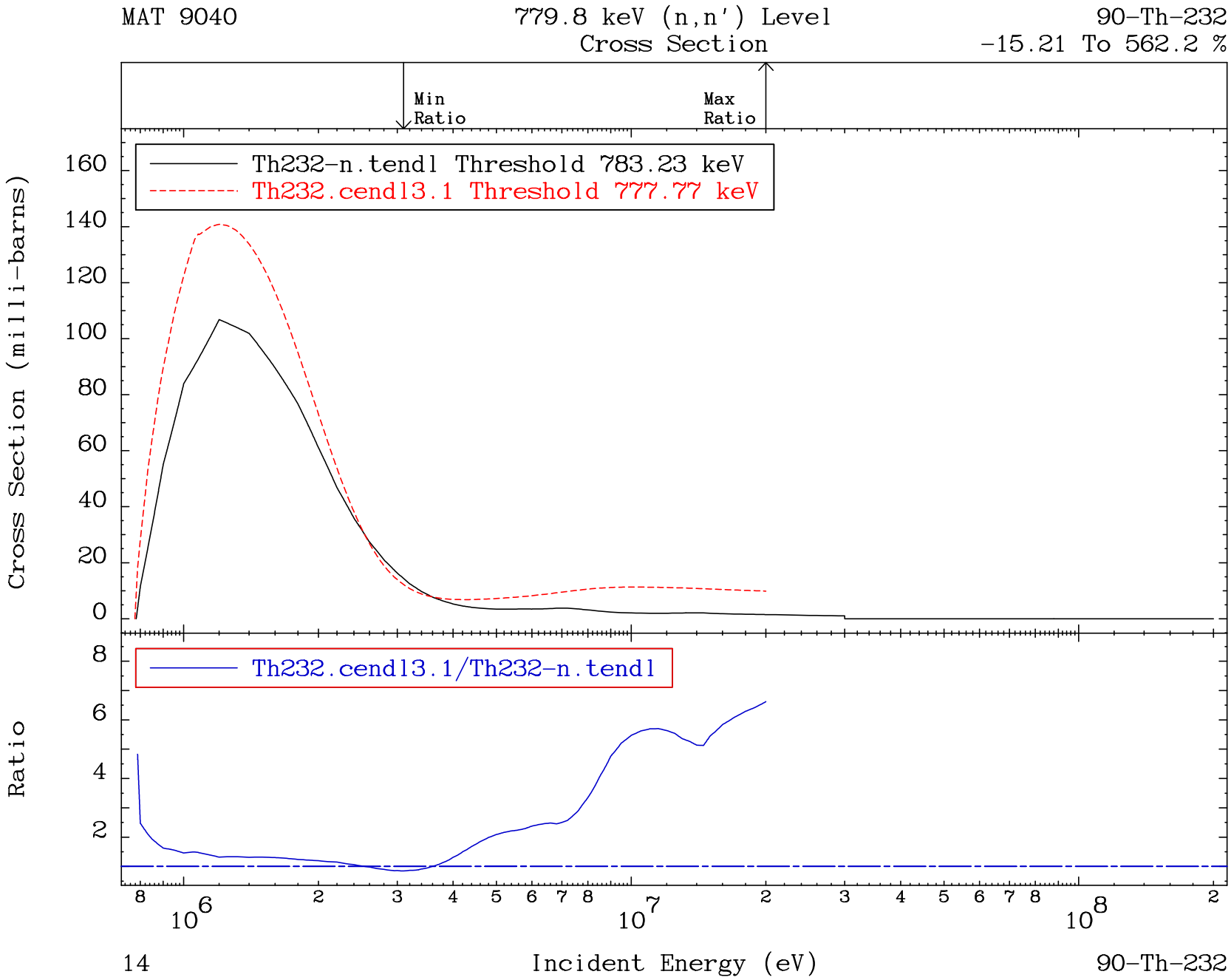

MAT 9040
333.3 keV (n,n') Level
Cross Section
90-Th-232
-85.70 To 109.4 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 334.71 keV
Th232.cendl3.1 Threshold 334.65 keV
Cross Section (milli-barns)
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^0
4
2
6
4
2
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
90-Th-232

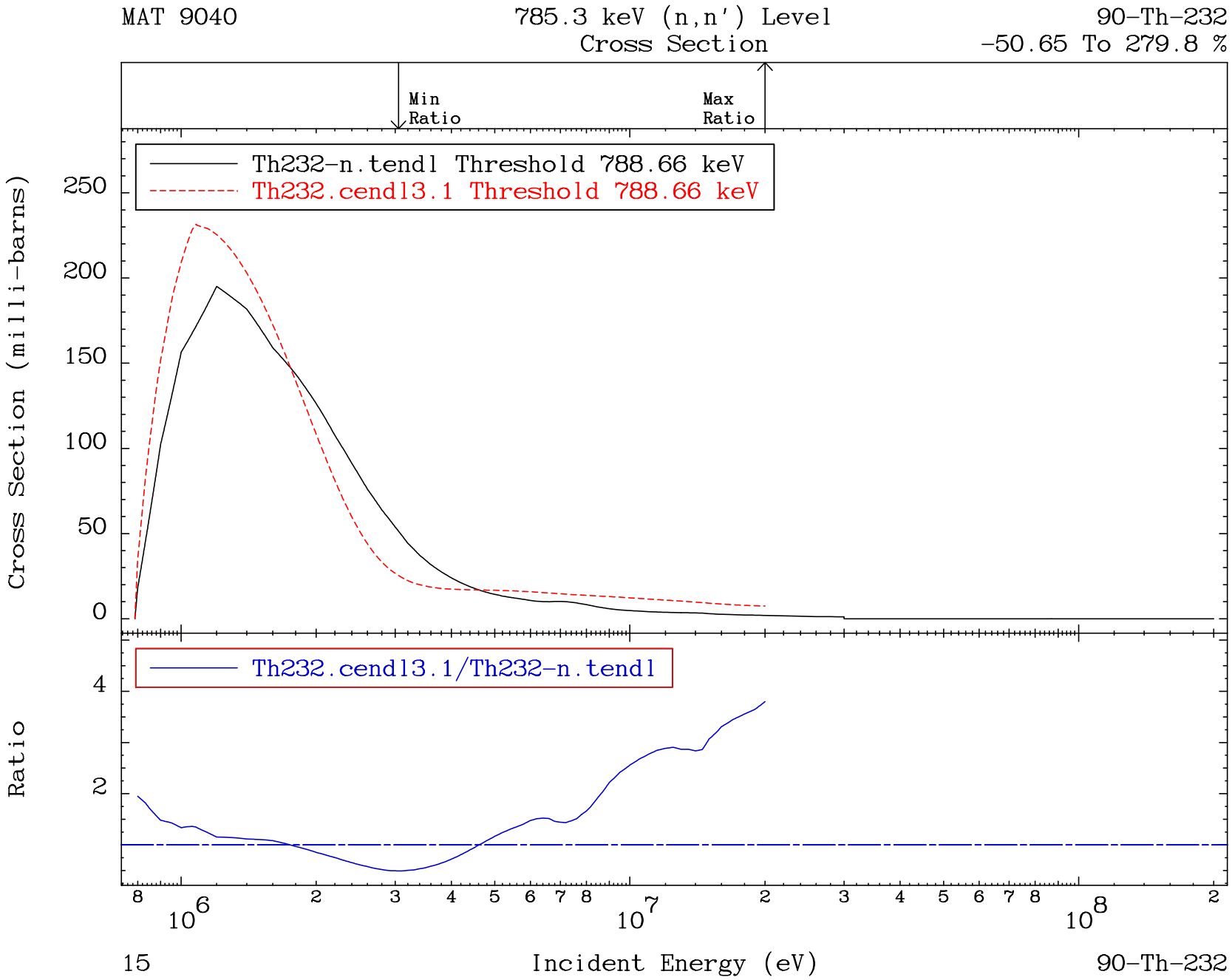

MAT 9040
556.9 keV (n,n') Level
Cross Section
90-Th-232
-92.17 To 89.60 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 559.32 keV
Th232.cendl3.1 Threshold 700.00 keV
Cross Section (milli-barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
90-Th-232

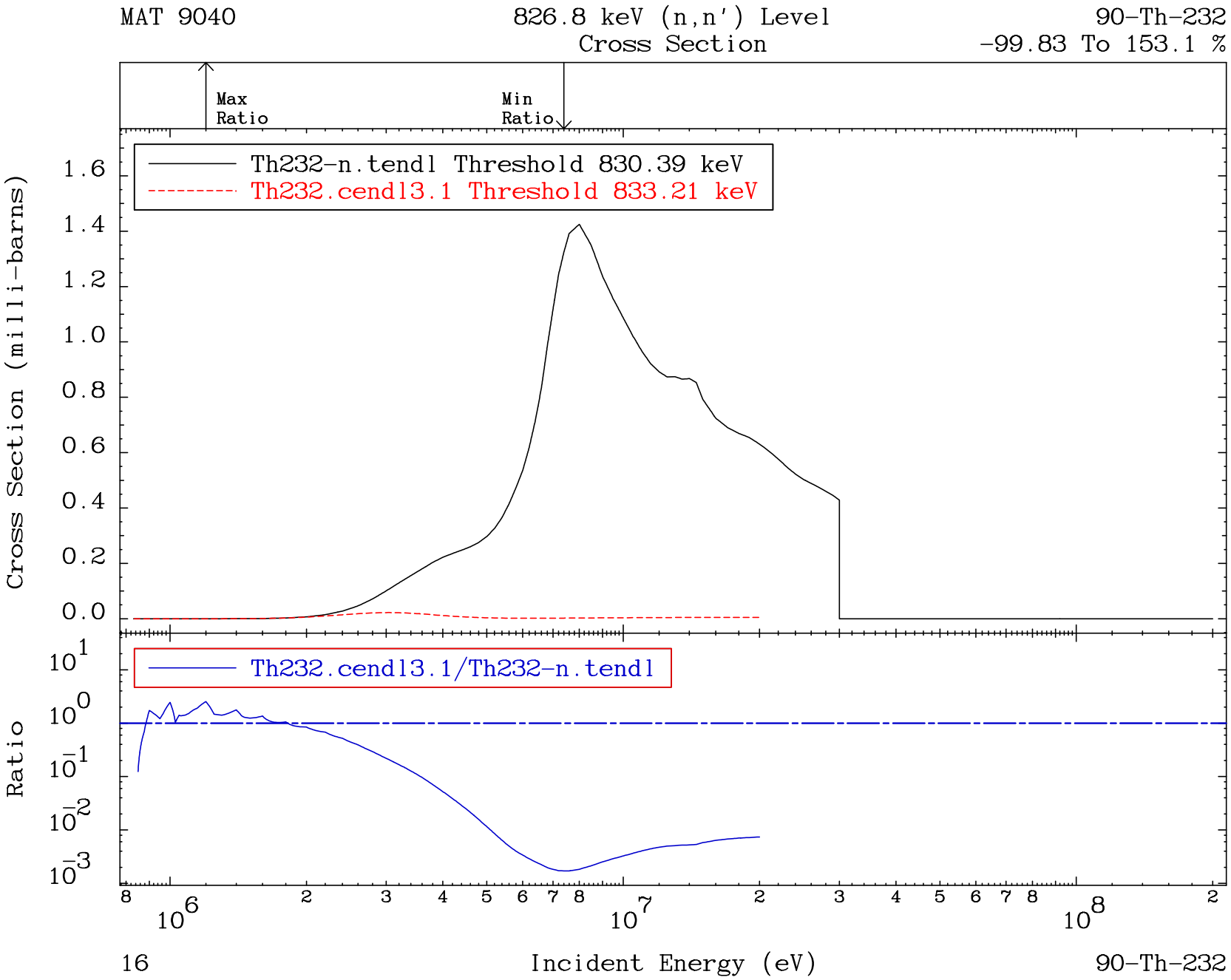

MAT 9040
714.4 keV (n,n') Level
Cross Section
90-Th-232
-99.85 To 283.2 %
Max
Ratio
Min
Ratio
Th232-n.tendl Threshold 717.53 keV
Th232.cendl3.1 Threshold 717.41 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^0
10^-2
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
90-Th-232

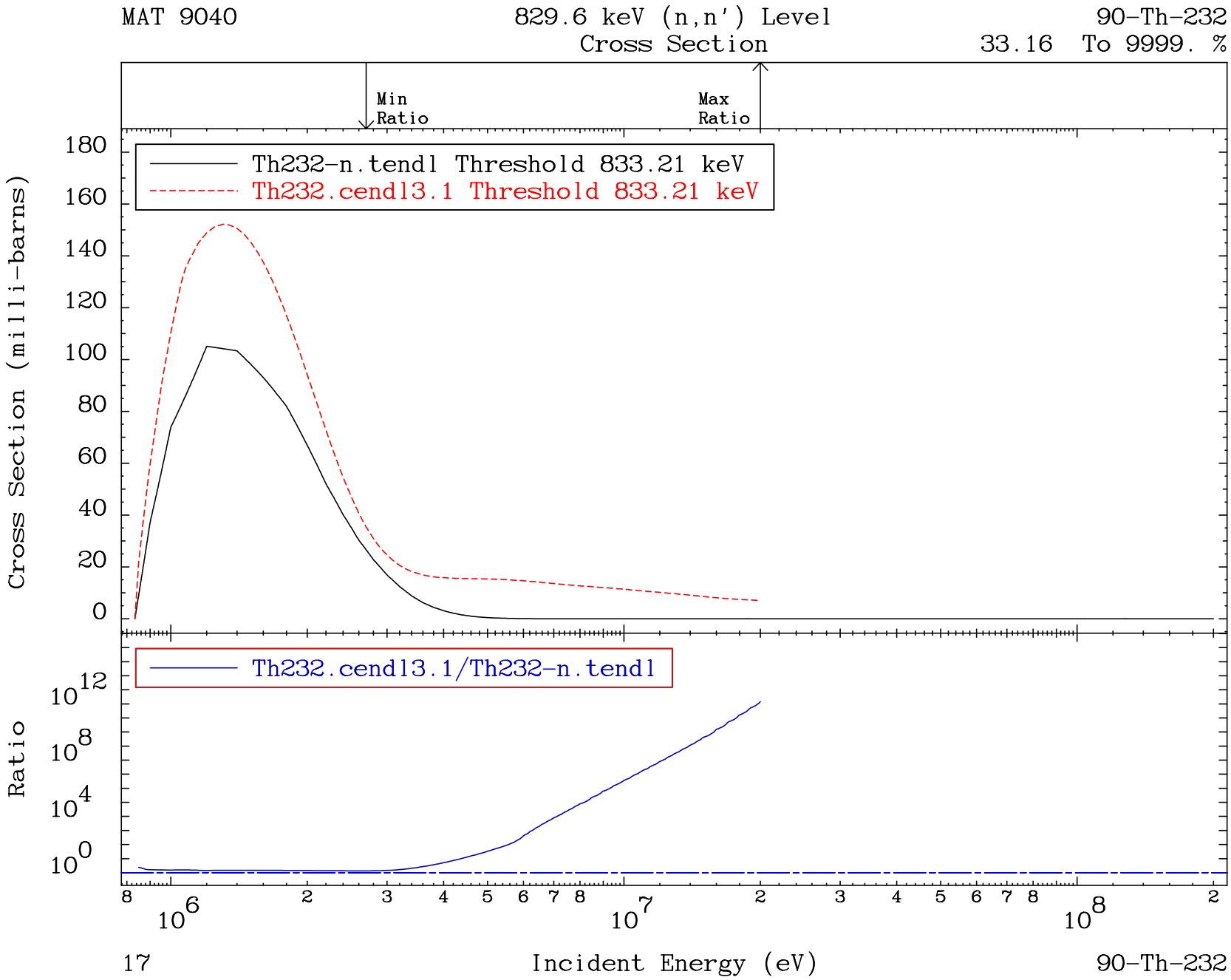

MAT 9040
730.6 keV (n,n') Level
Cross Section
90-Th-232
-84.38 To 9999. %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 733.78 keV
Th232.cendl3.1 Threshold 733.47 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^9
10^6
10^3
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
90-Th-232

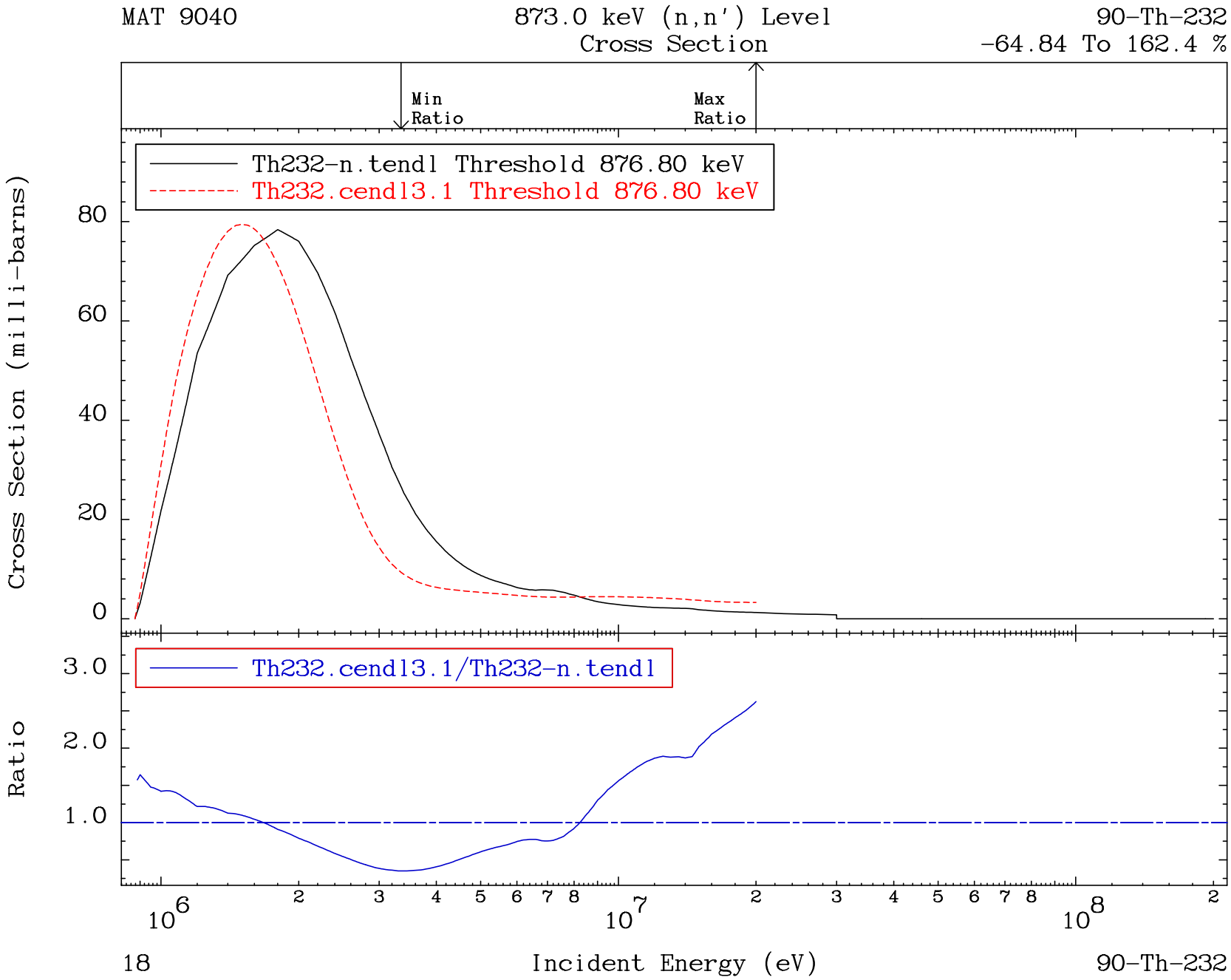

MAT 9040
774.2 keV (n,n') Level
Cross Section
90-Th-232
-50.49 To 279.8 %
Min
Ratio
Max
Ratio
Th232-n.tendl Threshold 777.52 keV
Th232.cendl3.1 Threshold 777.77 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Th232.cendl3.1/Th232-n.tendl
Ratio
4
2
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
90-Th-232

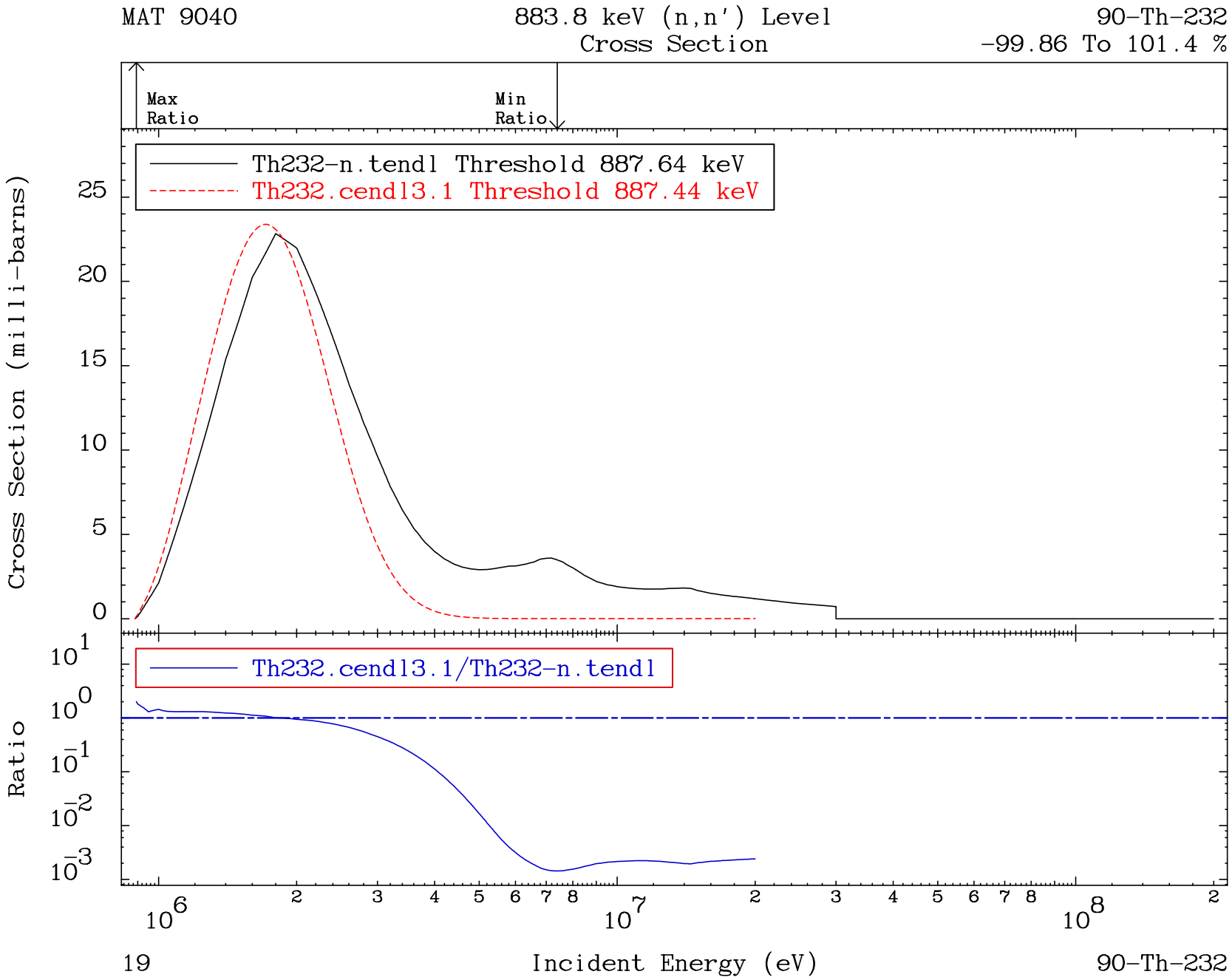

MAT 9040
779.8 keV (n,n') Level
Cross Section
90-Th-232
-15.21 To 562.2 %
Min
Ratio
Max
Ratio
Th232-n.tendl Threshold 783.23 keV
Th232.cendl3.1 Threshold 777.77 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
8
6
4
2
8
2
3
4
5
6
7
8
10^6
10^7
10^8
14
Incident Energy (eV)
90-Th-232

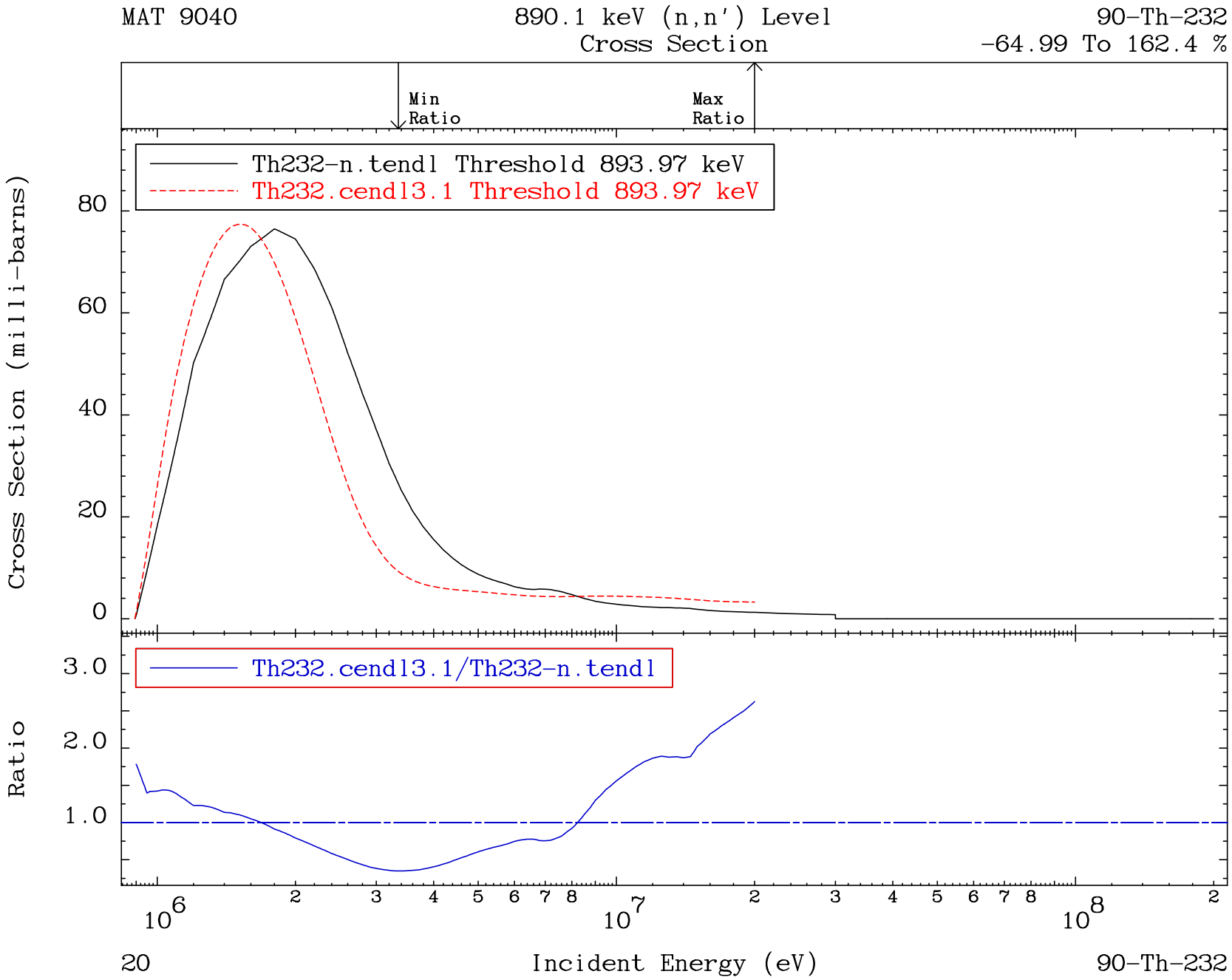

MAT 9040
785.3 keV (n,n') Level
Cross Section
90-Th-232
-50.65 To 279.8 %
Min
Ratio
Max
Ratio
Th232-n.tendl Threshold 788.66 keV
Th232.cendl3.1 Threshold 788.66 keV
Cross Section (milli-barns)
250
200
150
100
50
0
Th232.cendl3.1/Th232-n.tendl
Ratio
4
2
8
2
3
4
5
6
7
8
10^6
10^7
10^8
15
Incident Energy (eV)
90-Th-232

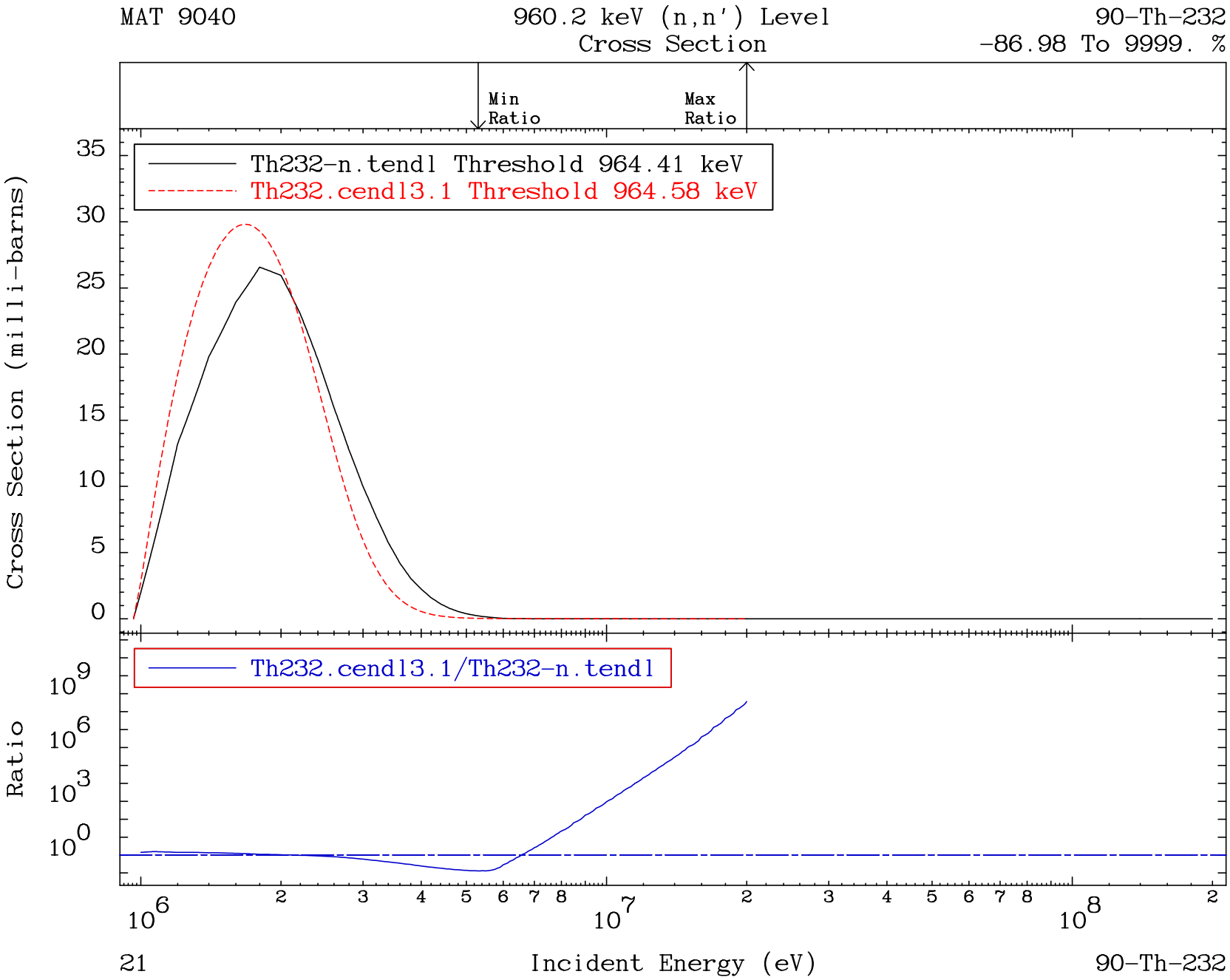

MAT 9040
826.8 keV (n,n') Level
Cross Section
90-Th-232
-99.83 To 153.1 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 830.39 keV
Th232.cendl3.1 Threshold 833.21 keV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^1
10^0
10^-1
10^-2
10^-3
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
90-Th-232

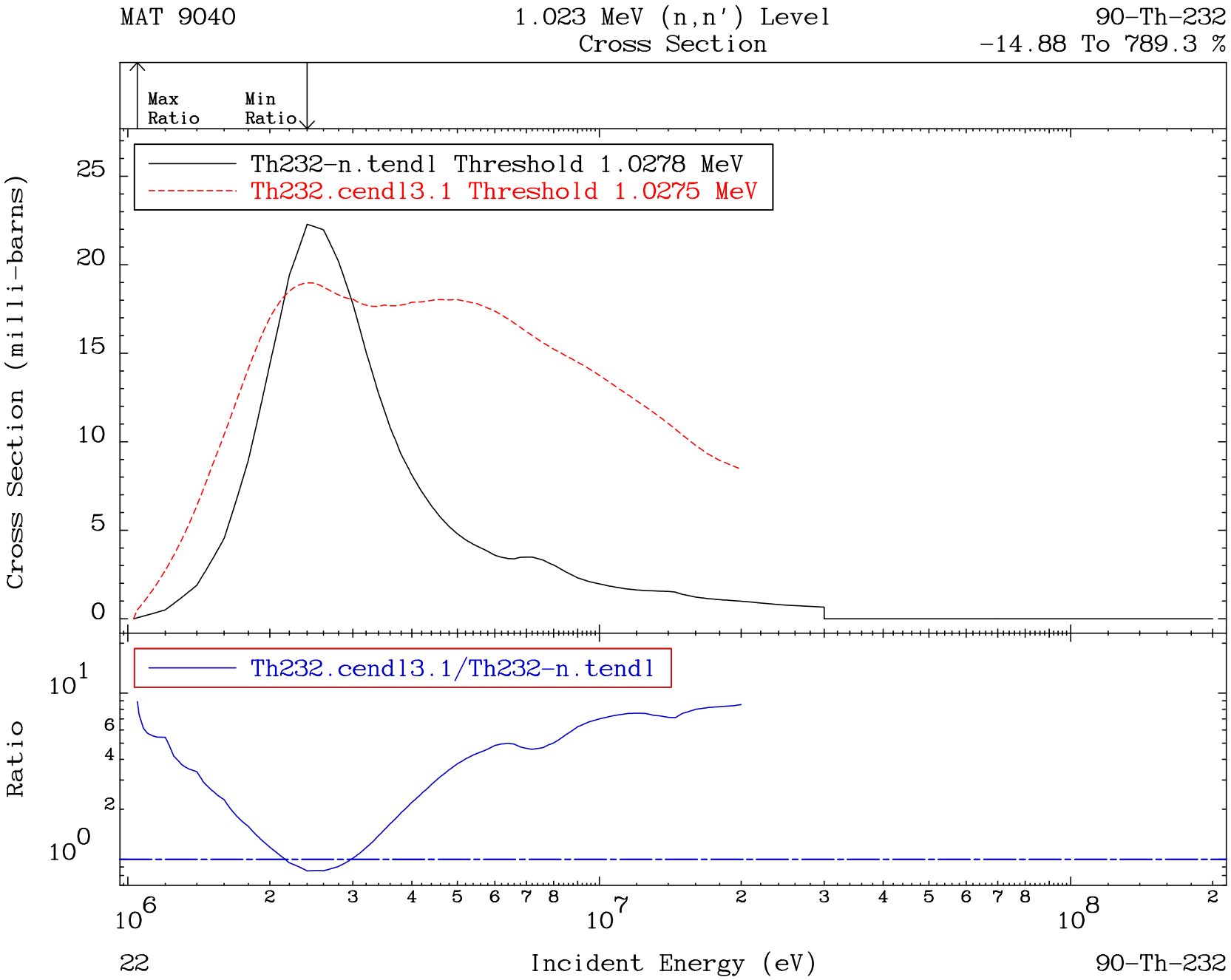

MAT 9040
829.6 keV (n,n') Level
Cross Section
90-Th-232
33.16 To 9999. %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 833.21 keV
Th232.cendl3.1 Threshold 833.21 keV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^12
10^8
10^4
10^0
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
90-Th-232

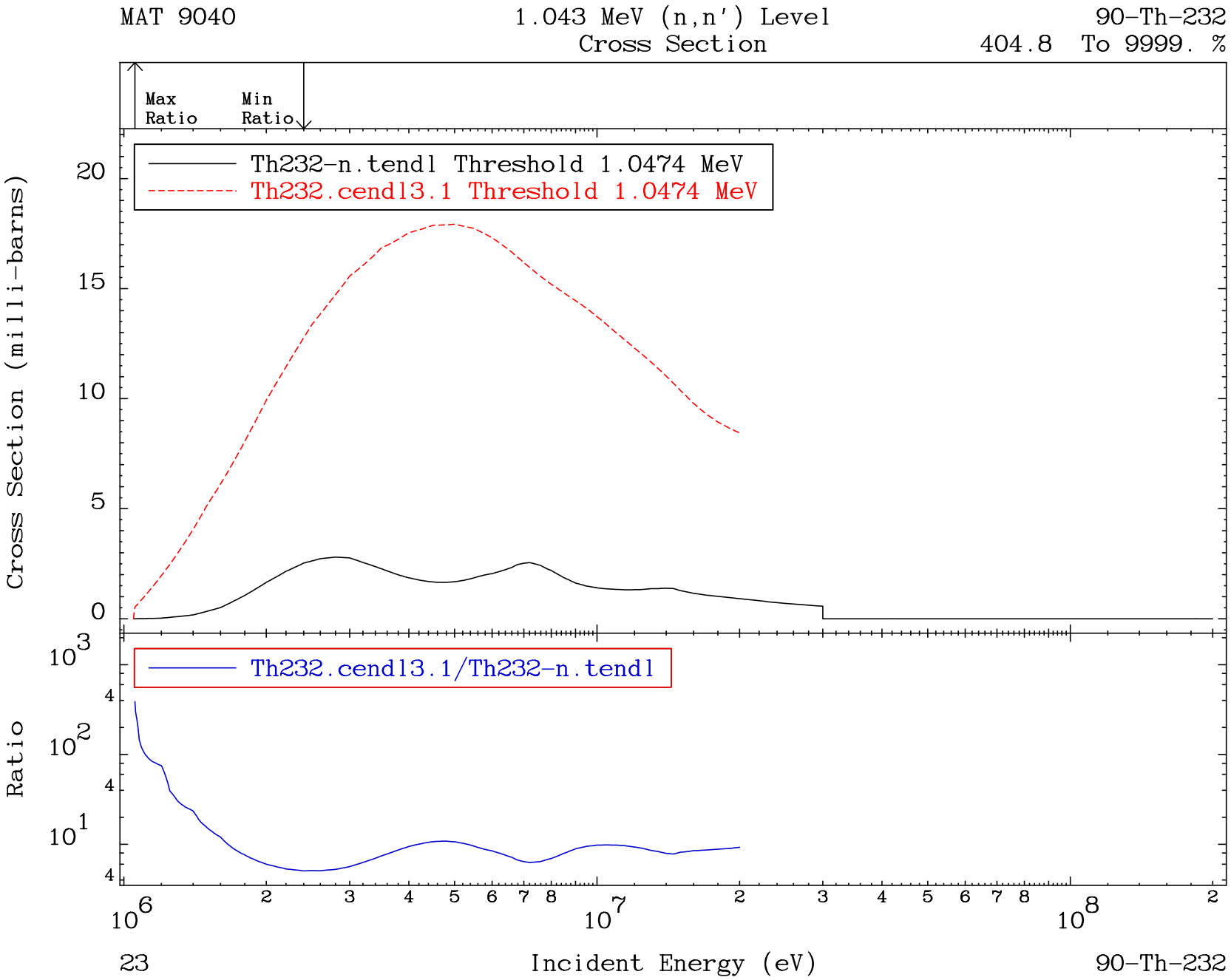

MAT 9040
873.0 keV (n,n') Level
Cross Section
90-Th-232
-64.84 To 162.4 %
Min
Ratio
Max
Ratio
Th232-n.tendl Threshold 876.80 keV
Th232.cendl3.1 Threshold 876.80 keV
Cross Section (milli-barns)
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
3.0
2.0
1.0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
90-Th-232

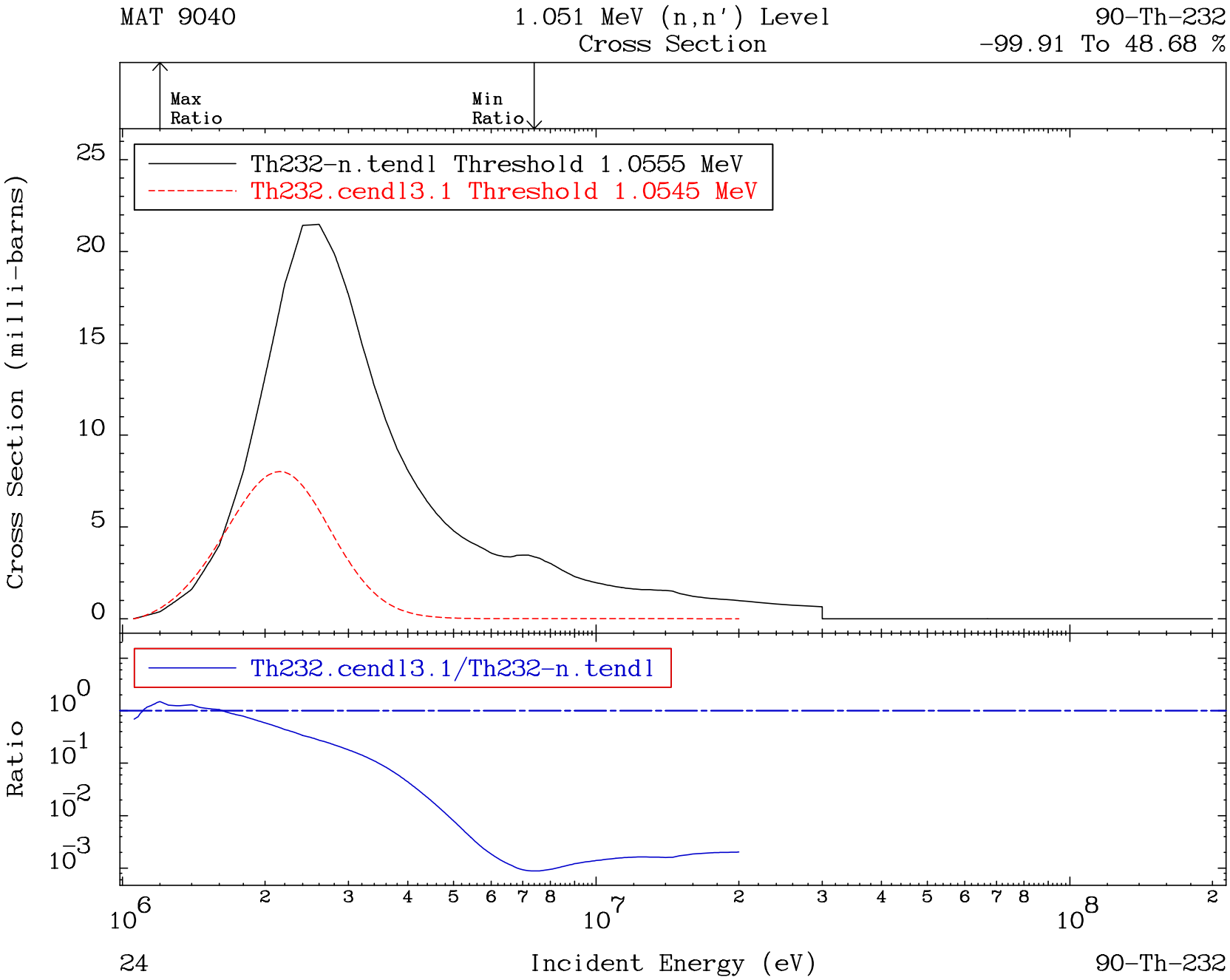

MAT 9040
883.8 keV (n,n') Level
Cross Section
90-Th-232
-99.86 To 101.4 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 887.64 keV
Th232.cendl3.1 Threshold 887.44 keV
Cross Section (milli-barns)
25
20
15
10
5
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^1
10^0
10^-1
10^-2
10^-3
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
90-Th-232

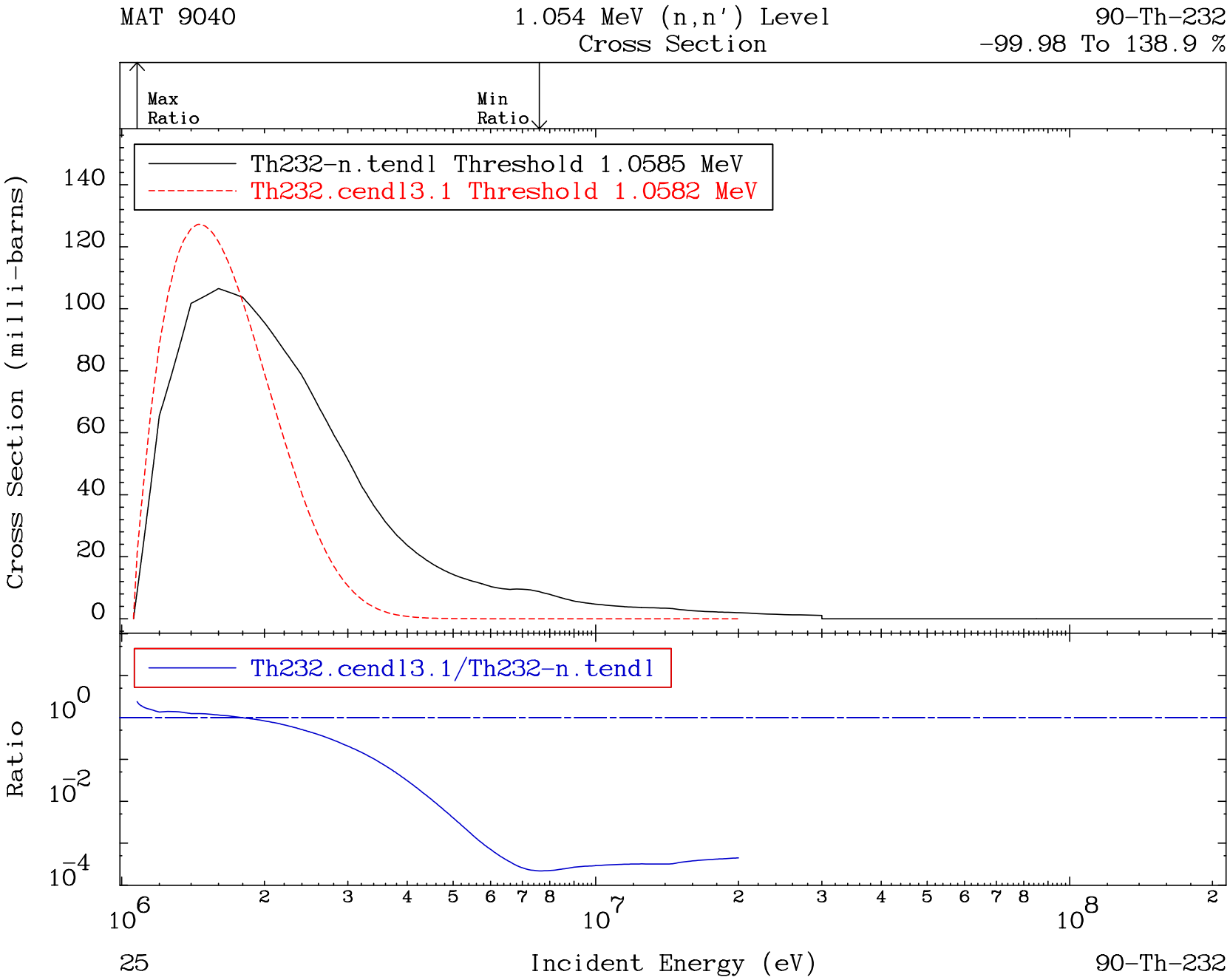

MAT 9040
890.1 keV (n,n') Level
Cross Section
90-Th-232
-64.99 To 162.4 %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 893.97 keV
Th232.cendl3.1 Threshold 893.97 keV
Cross Section (milli-barns)
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
3.0
2.0
1.0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
90-Th-232

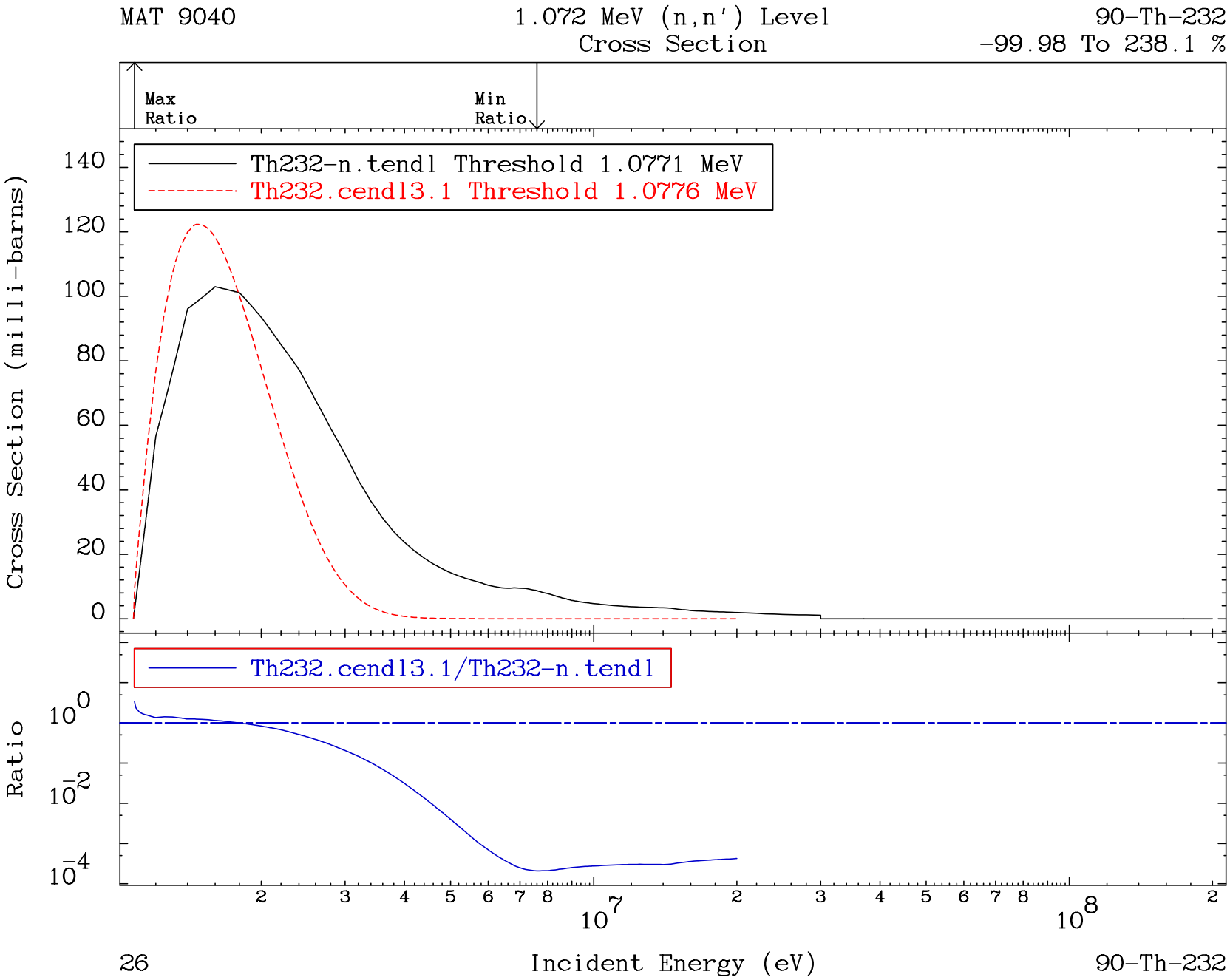

MAT 9040
960.2 keV (n,n') Level
Cross Section
90-Th-232
-86.98 To 9999. %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 964.41 keV
Th232.cendl3.1 Threshold 964.58 keV
Cross Section (milli-barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
21
90-Th-232

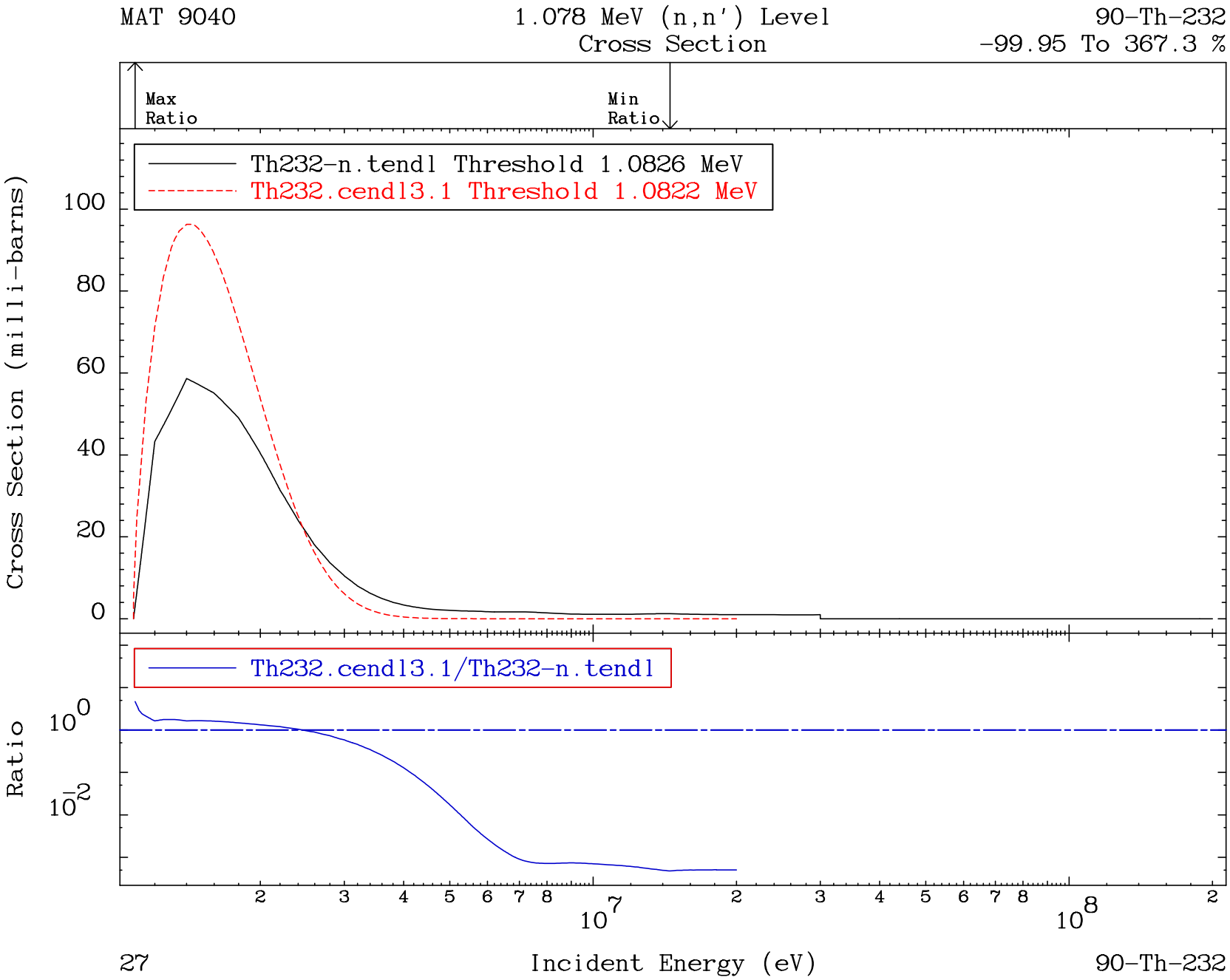

MAT 9040
1.023 MeV (n,n') Level
Cross Section
90-Th-232
-14.88 To 789.3 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 1.0278 MeV
Th232.cendl3.1 Threshold 1.0275 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^1
6
4
2
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
90-Th-232

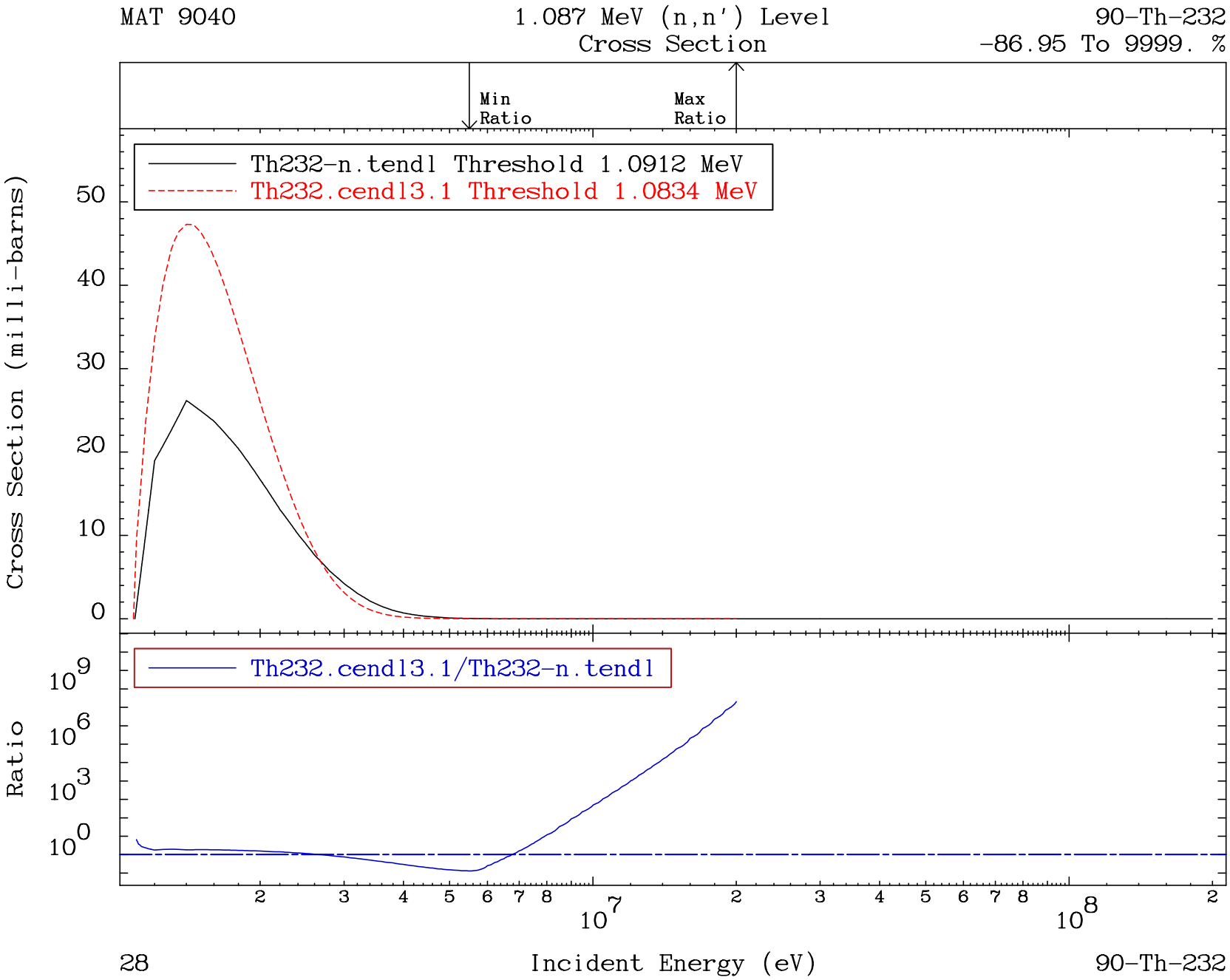

MAT 9040
1.043 MeV (n,n') Level
Cross Section
90-Th-232
404.8 To 9999. %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 1.0474 MeV
Th232.cendl3.1 Threshold 1.0474 MeV
Cross Section (milli-barns)
20
15
10
5
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^3
10^2
10^1
4
10^6
2
3
4
5
6
7
8
10^7
10^8
23
Incident Energy (eV)
90-Th-232

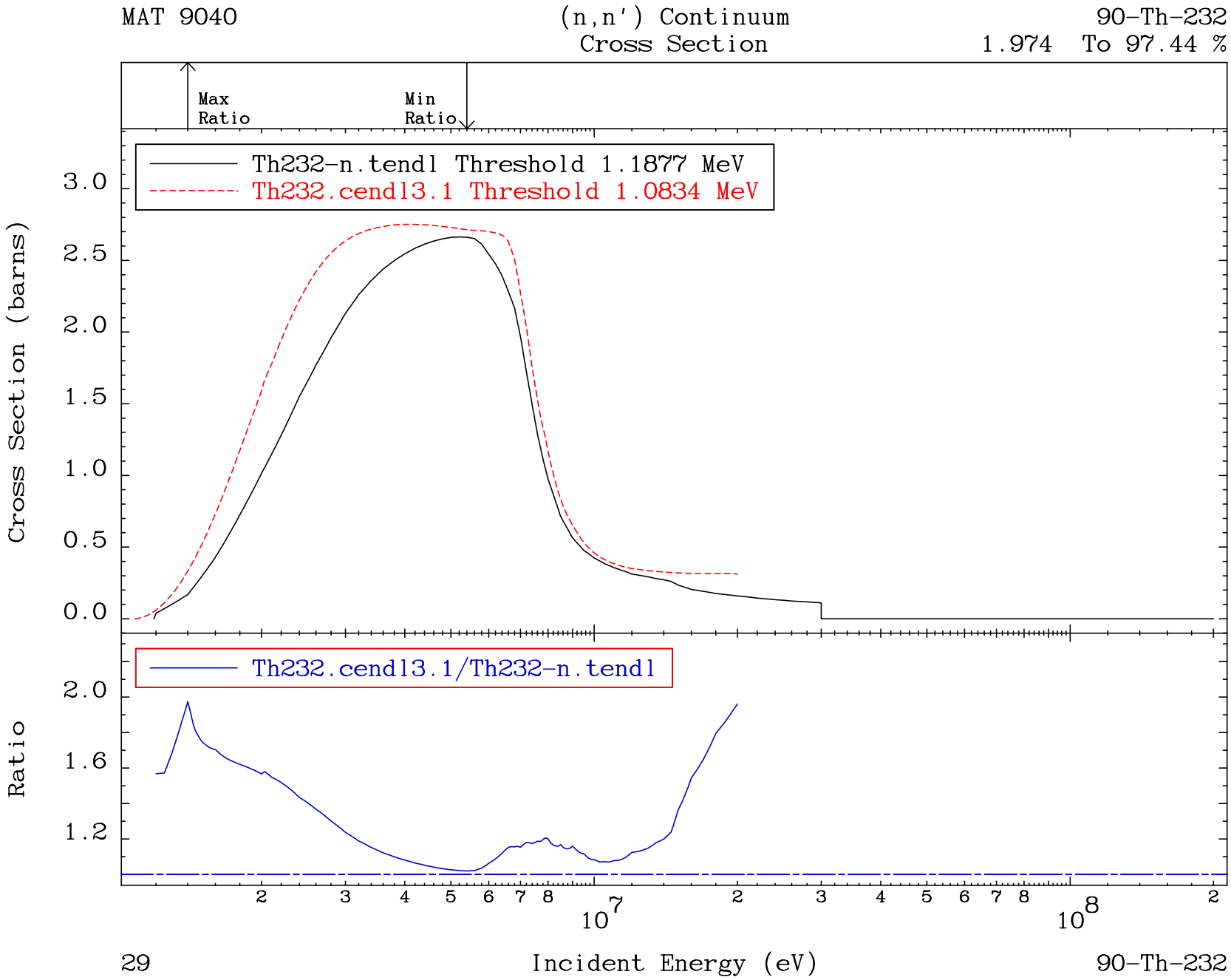

MAT 9040
1.051 MeV (n,n') Level
Cross Section
90-Th-232
-99.91 To 48.68 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 1.0555 MeV
Th232.cendl3.1 Threshold 1.0545 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^{0}
10^{-1}
10^{-2}
10^{-3}
10^{6}
2 3 4 5 6 7 8
10^{7}
2 3 4 5 6 7 8
10^{8}
2
24
Incident Energy (eV)
90-Th-232

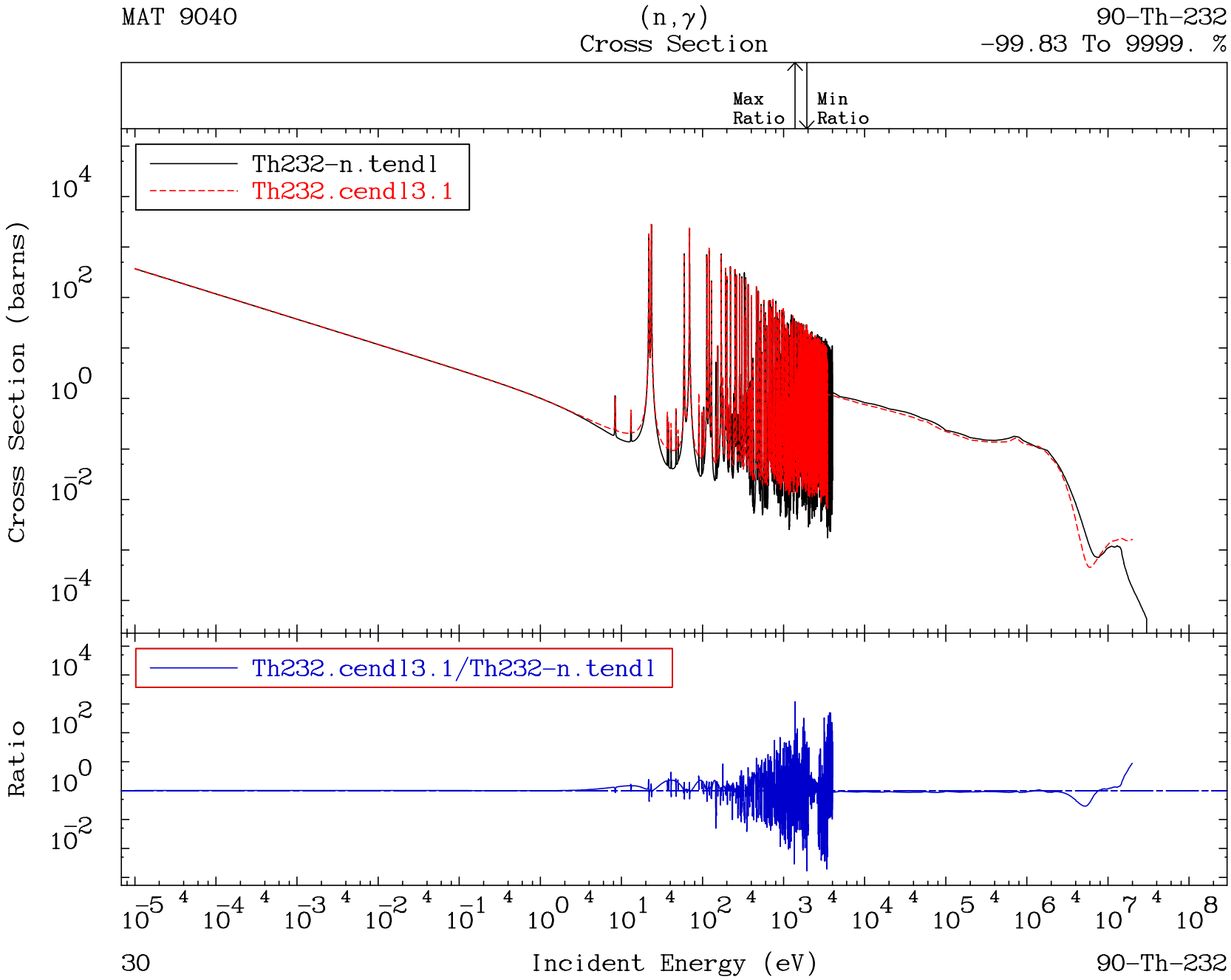

MAT 9040
1.054 MeV (n,n') Level
Cross Section
90-Th-232
-99.98 To 138.9 %
Max
Ratio
Min
Ratio
Th232-n.tendl Threshold 1.0585 MeV
Th232.cendl3.1 Threshold 1.0582 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^0
10^-2
10^-4
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
90-Th-232

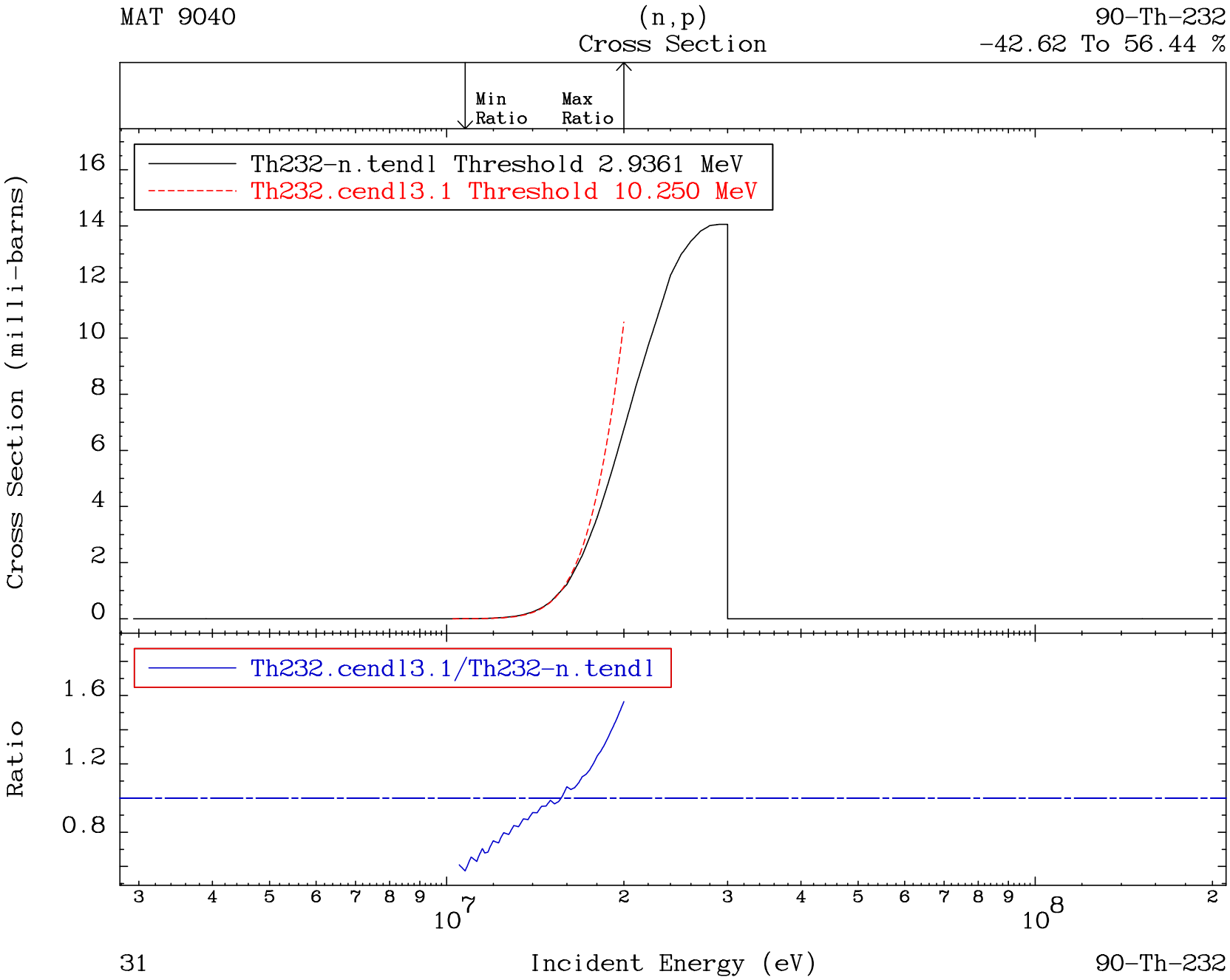

MAT 9040
1.072 MeV (n,n') Level
Cross Section
90-Th-232
-99.98 To 238.1 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 1.0771 MeV
Th232.cendl3.1 Threshold 1.0776 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
90-Th-232

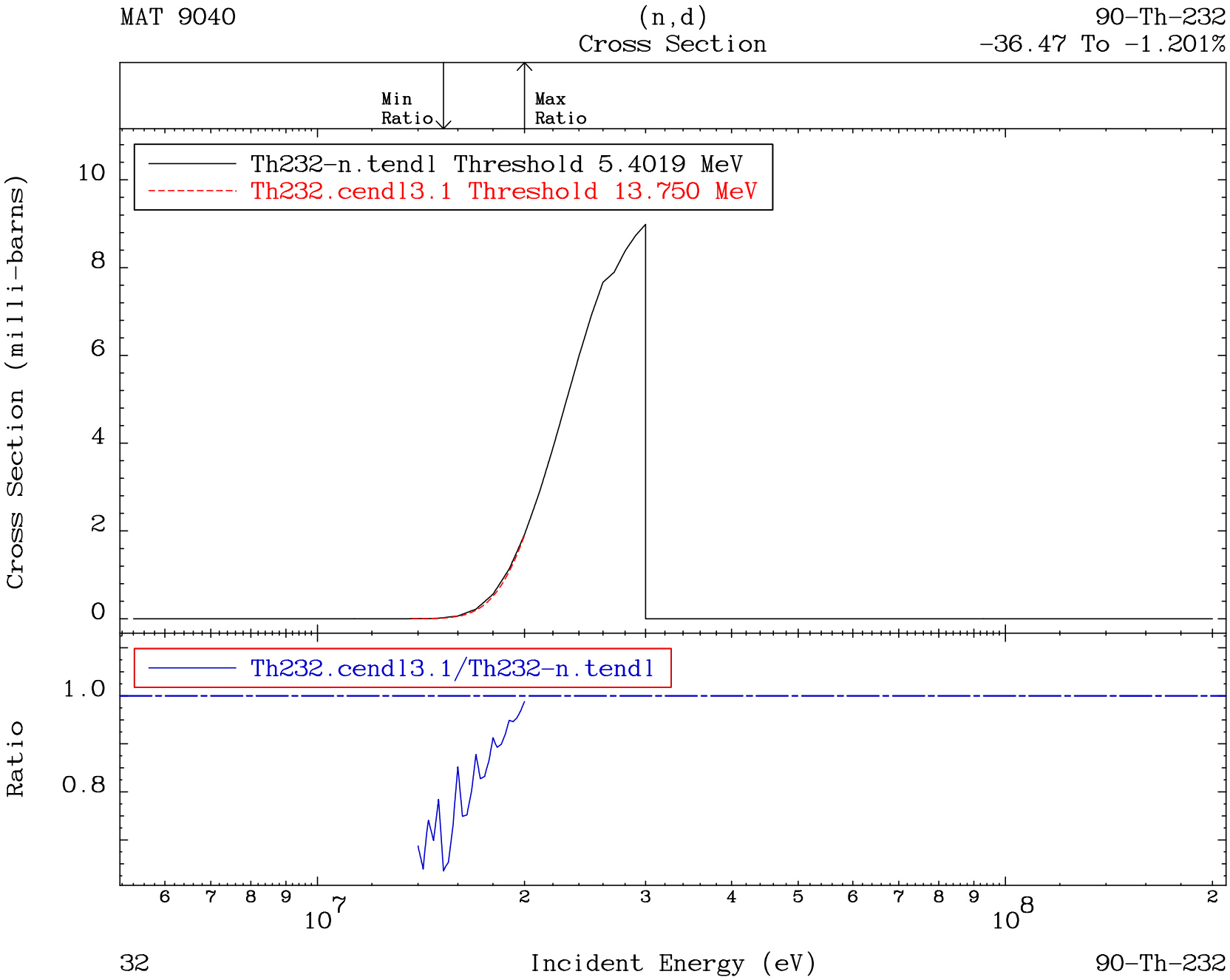

MAT 9040
1.078 MeV (n,n') Level
Cross Section
90-Th-232
-99.95 To 367.3 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 1.0826 MeV
Th232.cendl3.1 Threshold 1.0822 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^0
10^{-2}
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
90-Th-232

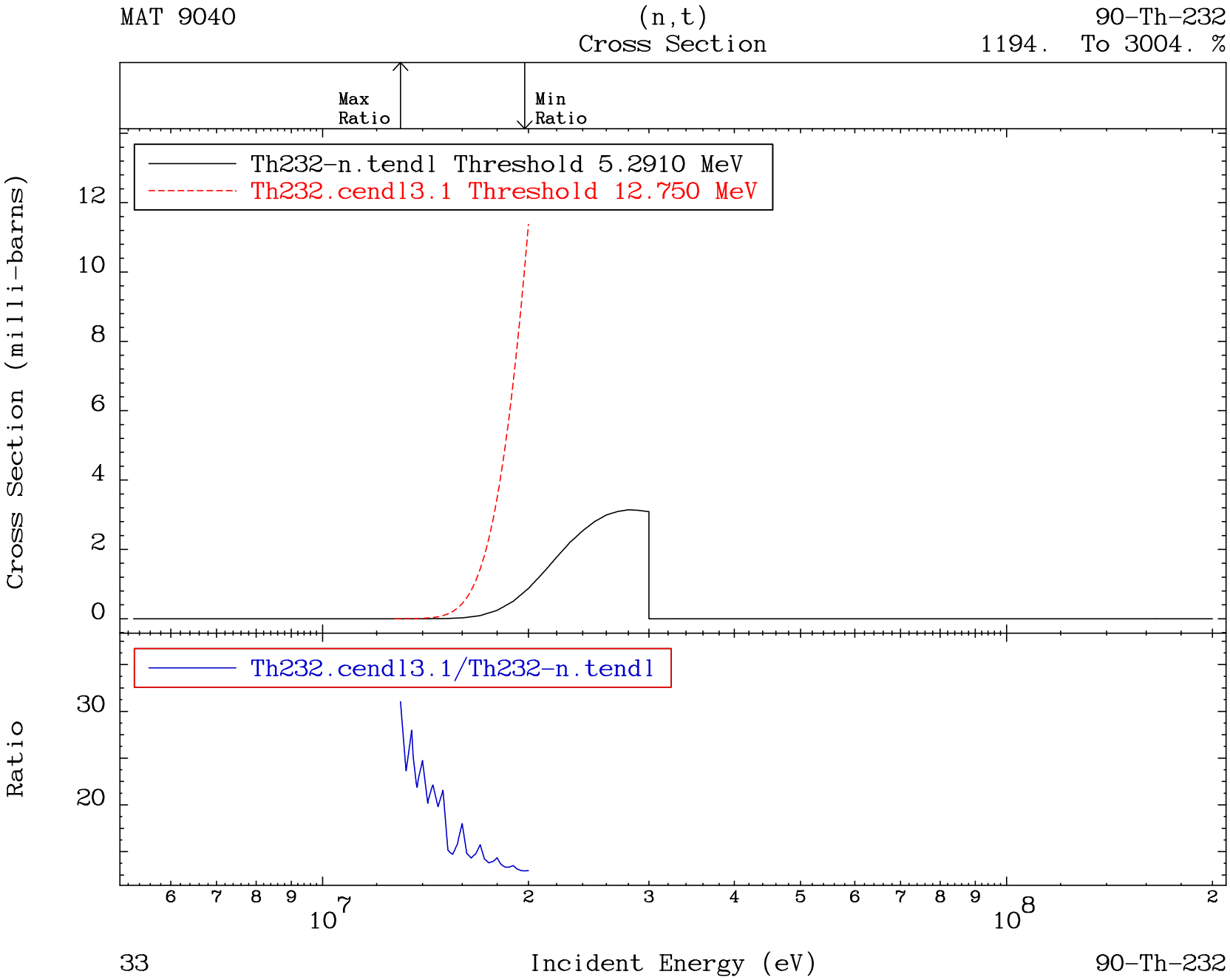

MAT 9040
1.087 MeV (n,n') Level
Cross Section
90-Th-232
-86.95 To 9999. %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 1.0912 MeV
Th232.cendl3.1 Threshold 1.0834 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Th232.cendl3.1/Th232-n.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
90-Th-232

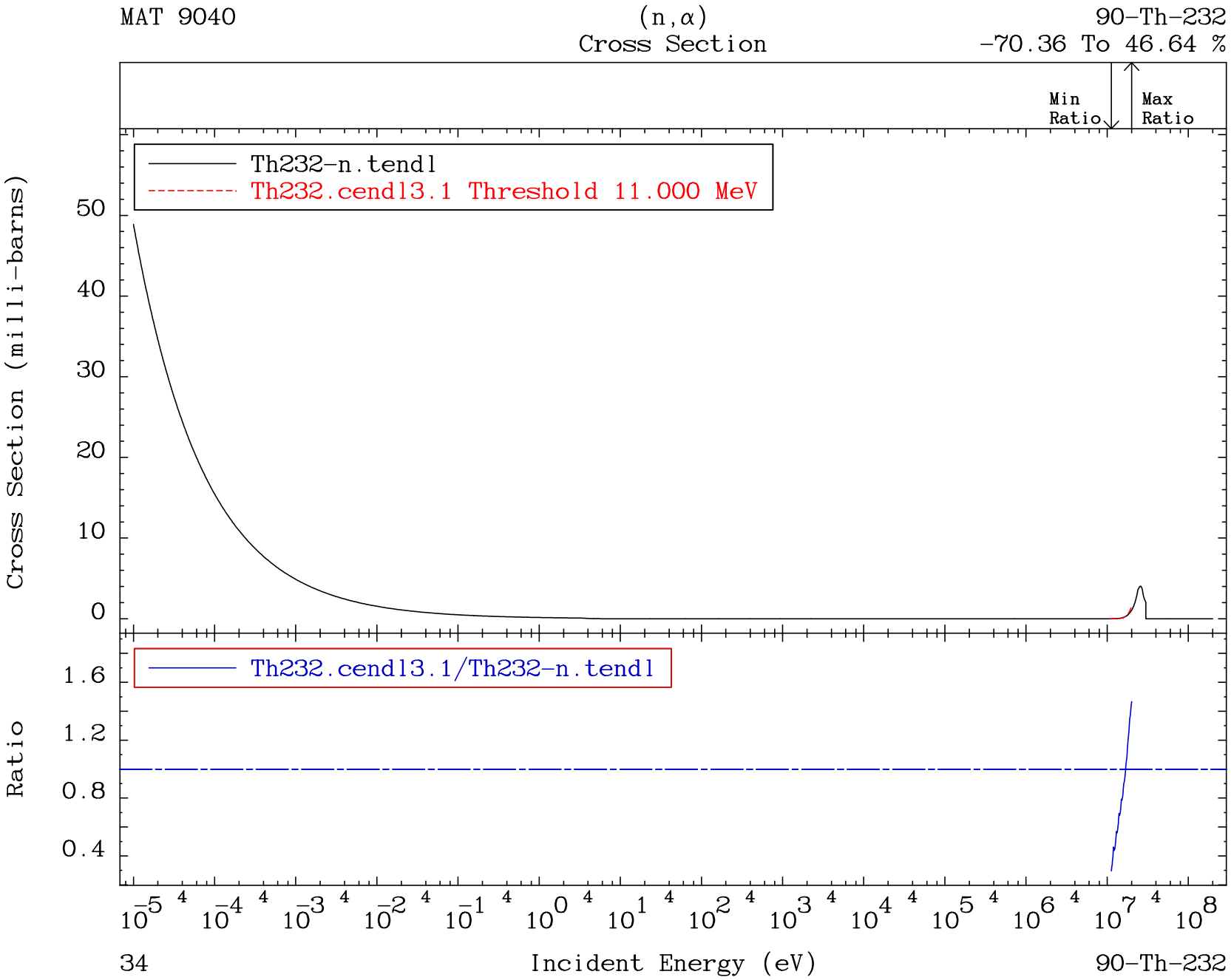

MAT 9040
(n,n') Continuum
Cross Section
90-Th-232
1.974 To 97.44 %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 1.1877 MeV
Th232.cendl3.1 Threshold 1.0834 MeV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
Th232.cendl3.1/Th232-n.tendl
Ratio
2.0
1.6
1.2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
90-Th-232

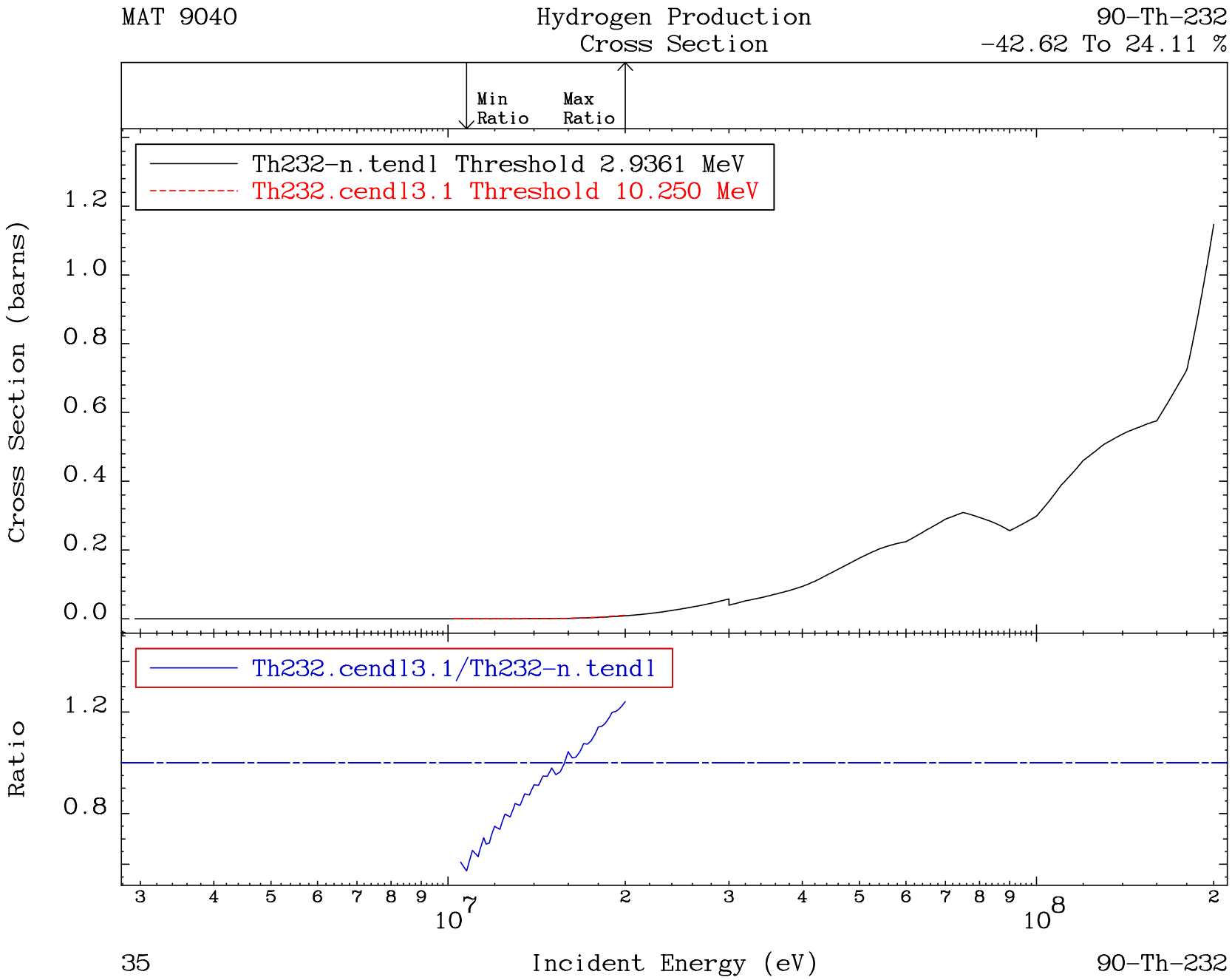

MAT 9040
(n,γ)
Cross Section
90-Th-232
-99.83 To 9999. %
Max Ratio
Min Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
30
90-Th-232

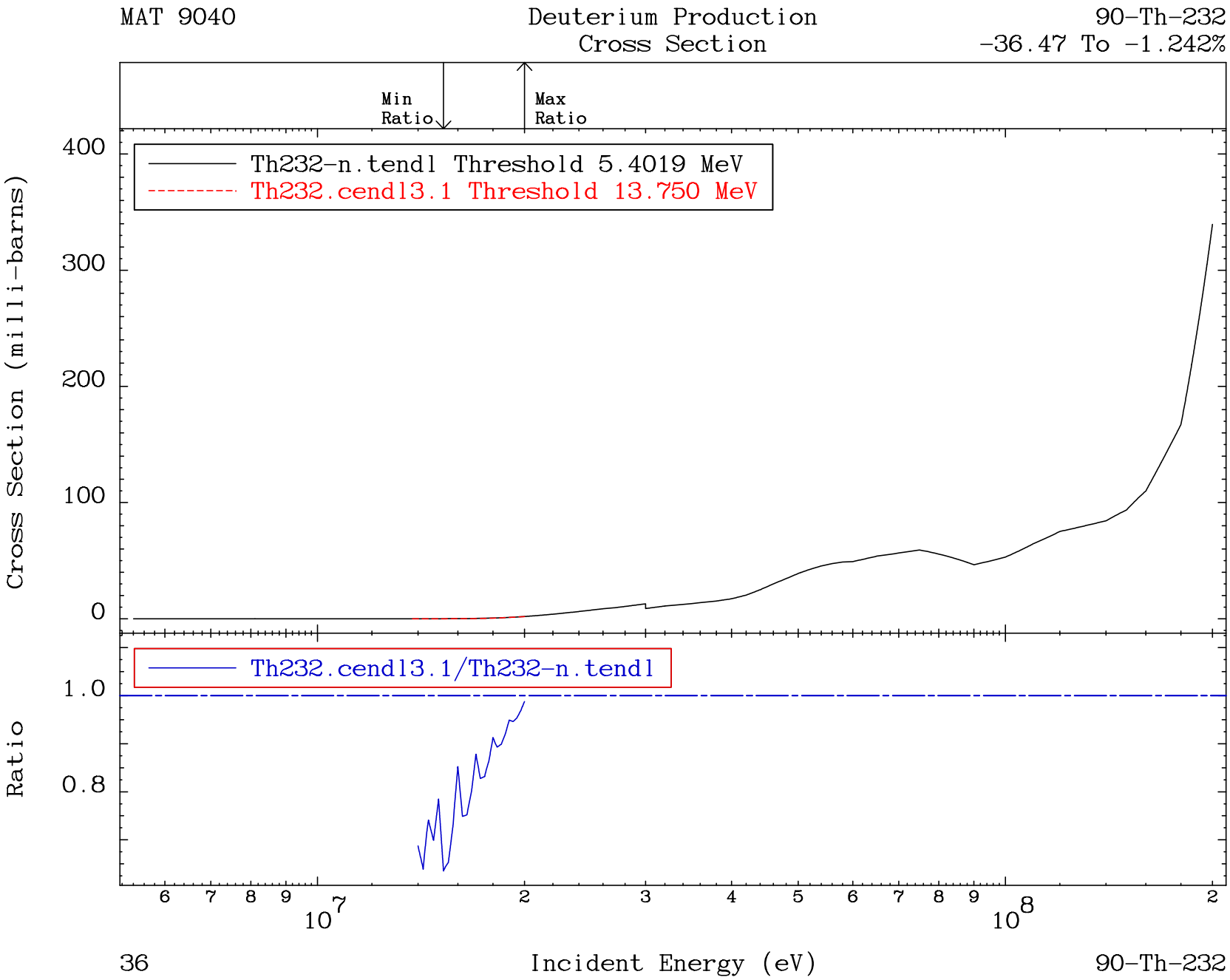

MAT 9040
(n,p)
Cross Section
90-Th-232
-42.62 To 56.44 %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 2.9361 MeV
Th232.cendl3.1 Threshold 10.250 MeV
Cross Section (milli-barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
31
90-Th-232

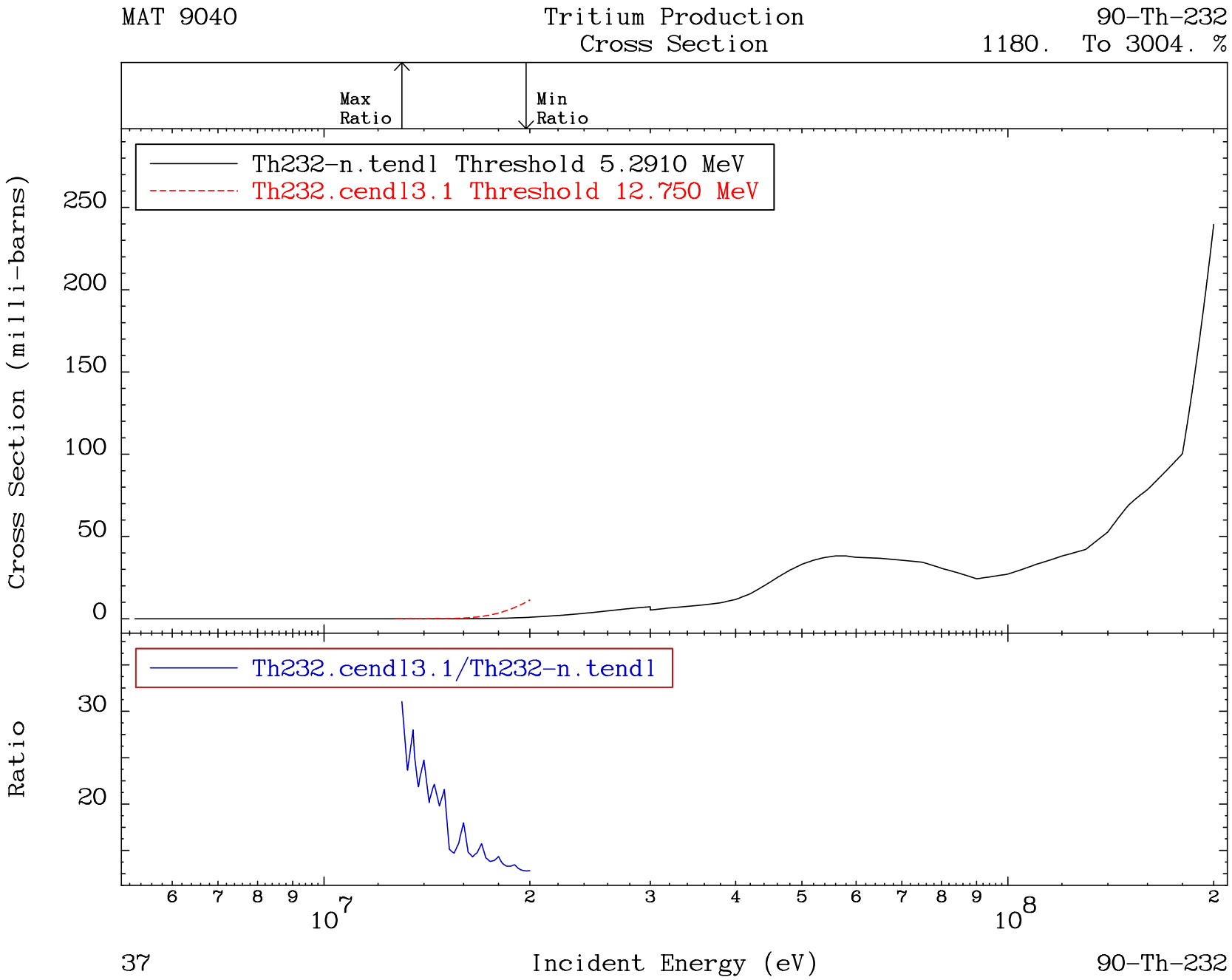

MAT 9040
(n,d)
Cross Section
90-Th-232
-36.47 To -1.201%
Min Ratio
Max Ratio
Th232-n.tendl Threshold 5.4019 MeV
Th232.cendl3.1 Threshold 13.750 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
Th232.cendl3.1/Th232-n.tendl
Ratio
1.0
0.8
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
90-Th-232

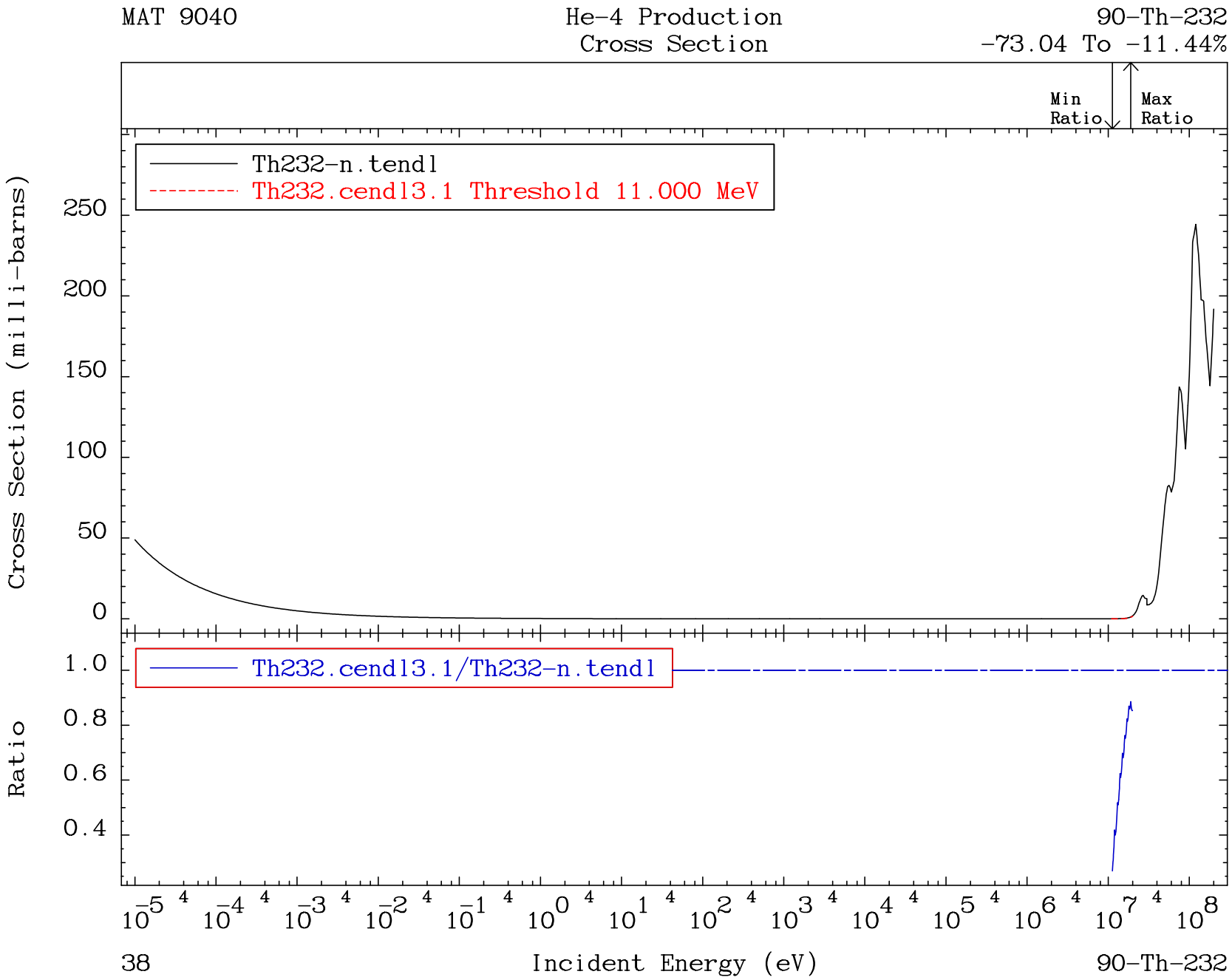

MAT 9040
(n,t)
Cross Section
90-Th-232
1194. To 3004. %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 5.2910 MeV
Th232.cendl3.1 Threshold 12.750 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
Th232.cendl3.1/Th232-n.tendl
Ratio
20
30
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
90-Th-232

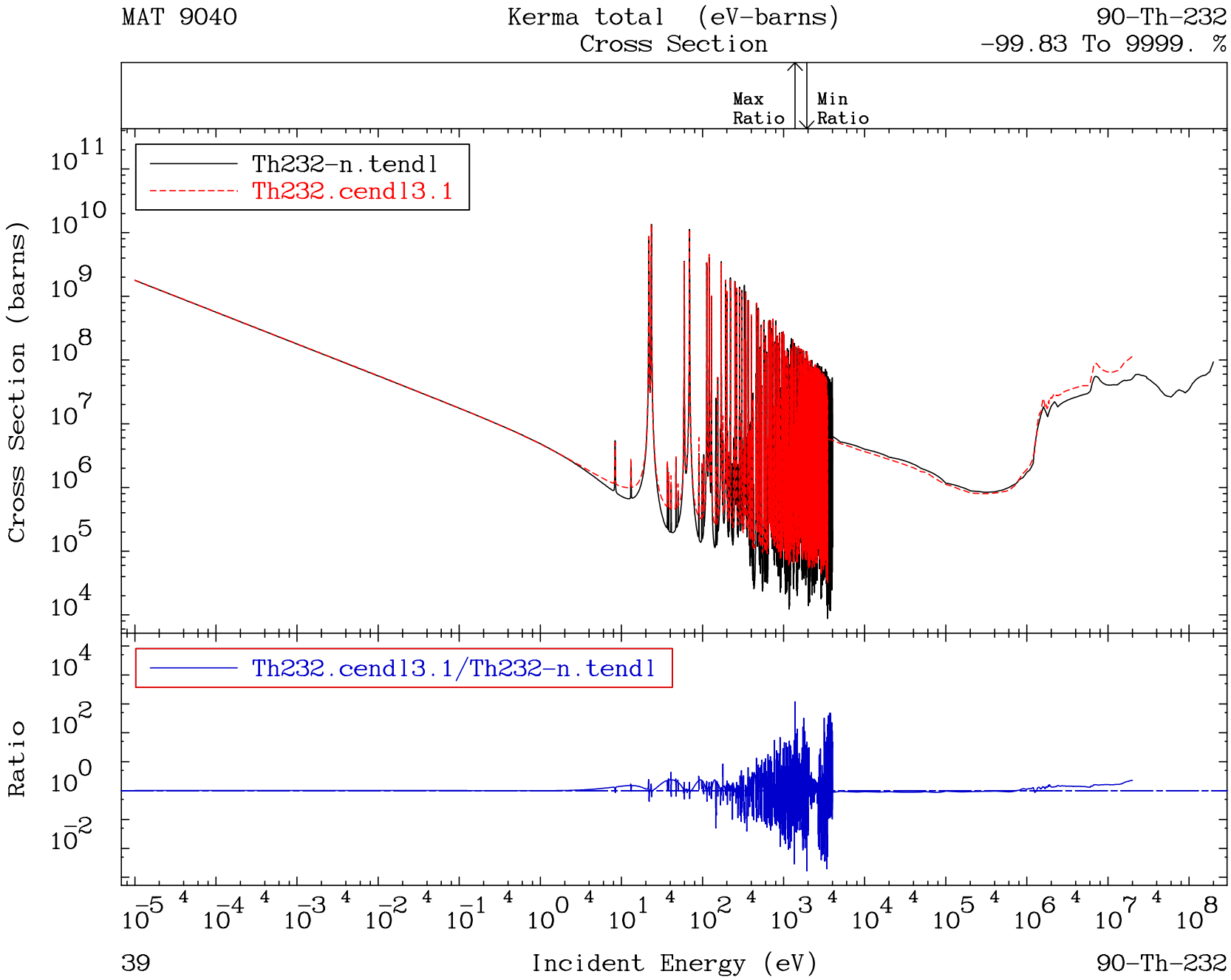

MAT 9040
(n,α)
Cross Section
90-Th-232
-70.36 To 46.64 %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
Th232.cendl3.1/Th232-n.tendl
Ratio
1.6
1.2
0.8
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
90-Th-232

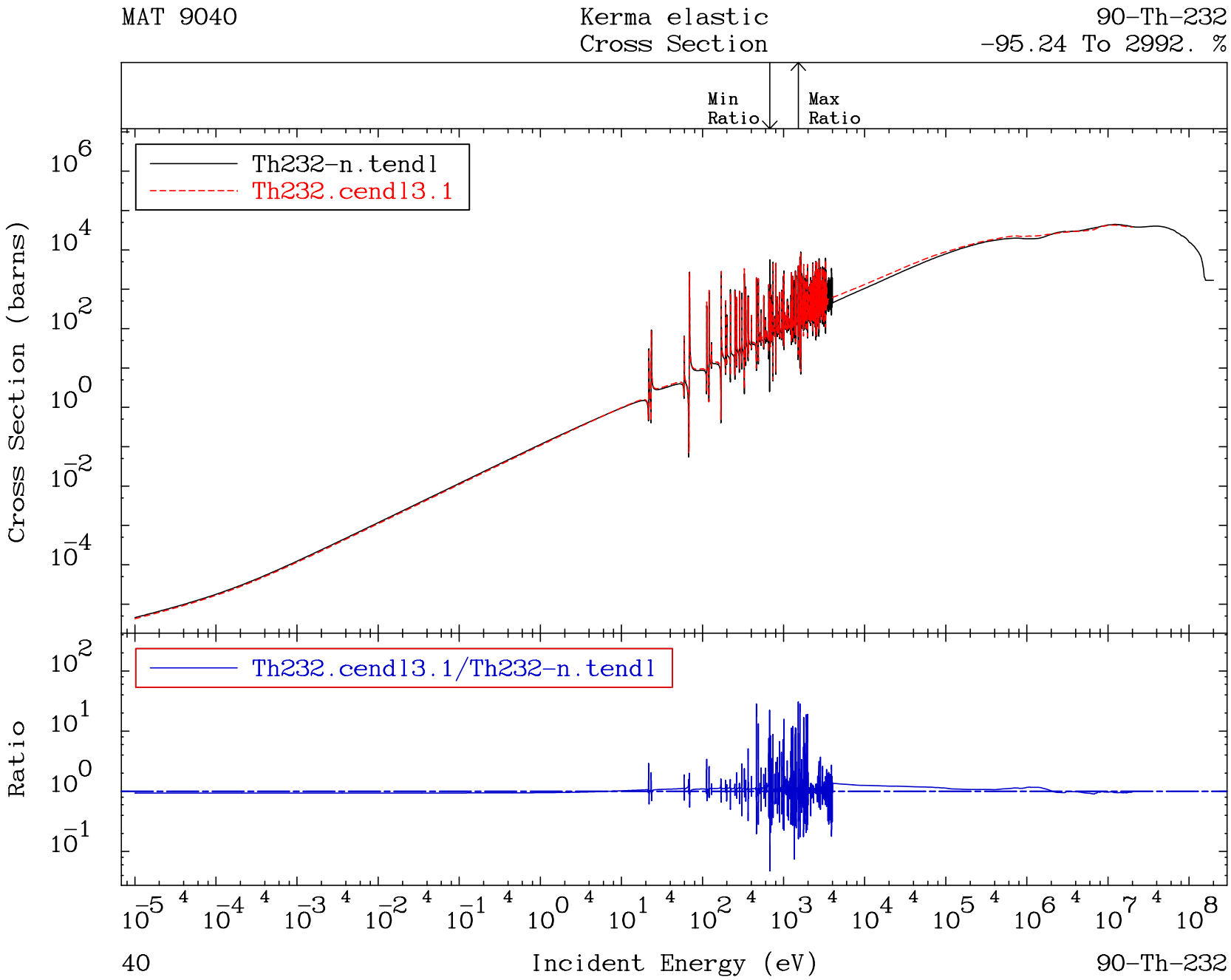

MAT 9040
Hydrogen Production
Cross Section
90-Th-232
-42.62 To 24.11 %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 2.9361 MeV
Th232.cendl3.1 Threshold 10.250 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Th232.cendl3.1/Th232-n.tendl
Ratio
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
90-Th-232

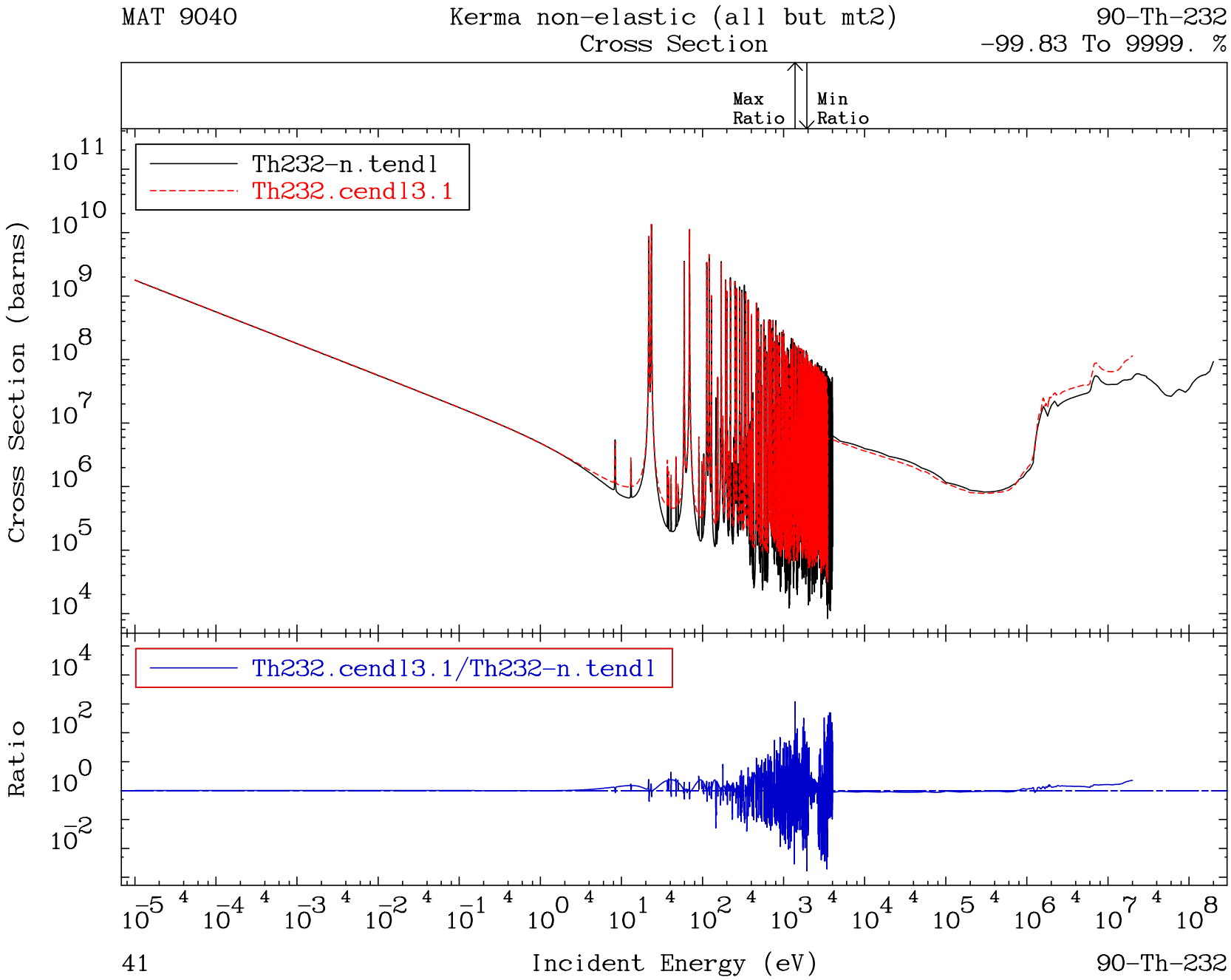

MAT 9040
Deuterium Production
Cross Section
90-Th-232
-36.47 To -1.242%
Min Ratio
Max Ratio
Th232-n.tendl Threshold 5.4019 MeV
Th232.cendl3.1 Threshold 13.750 MeV
Cross Section (milli-barns)
400
300
200
100
0
Th232.cendl3.1/Th232-n.tendl
Ratio
1.0
0.8
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
90-Th-232

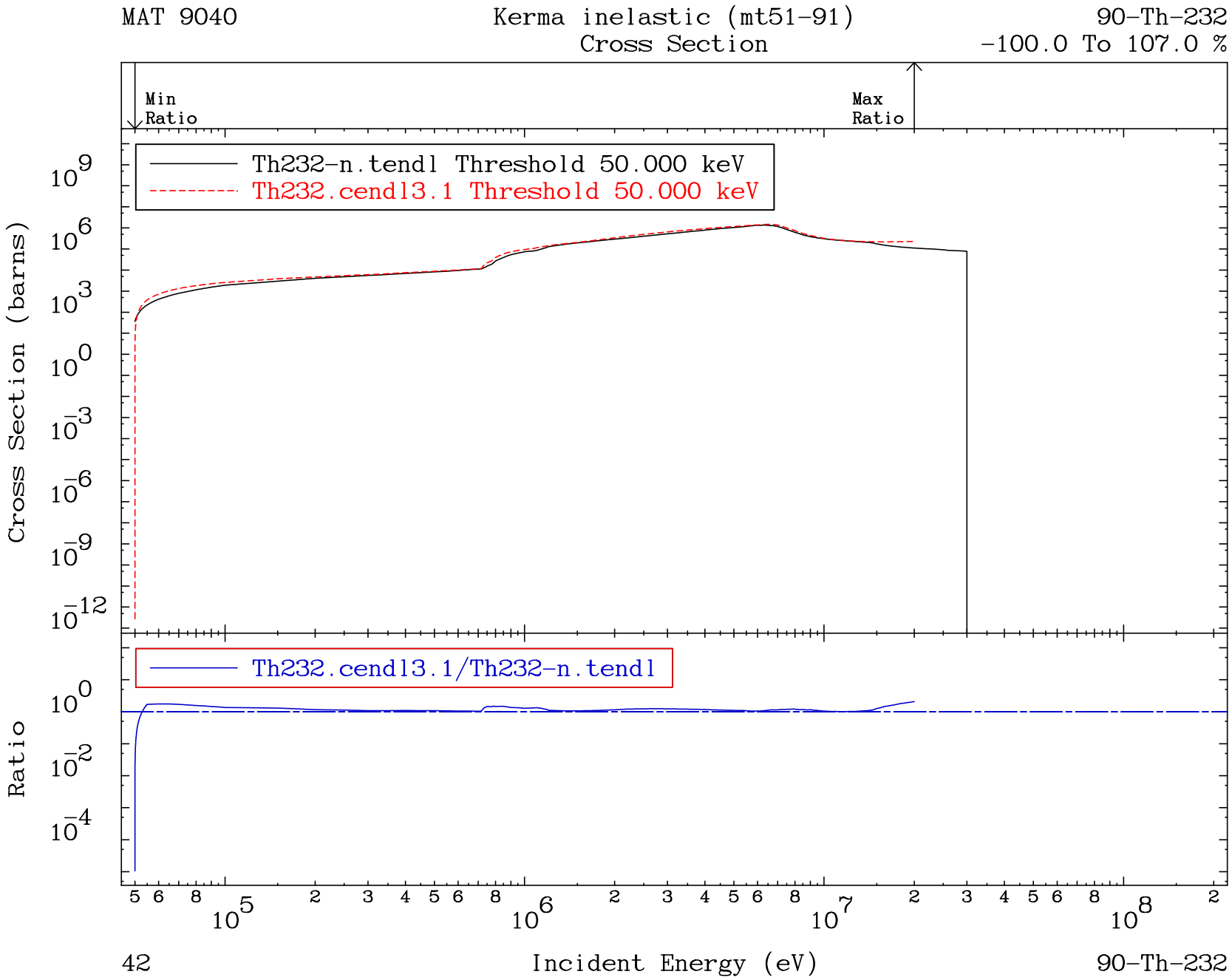

MAT 9040
Tritium Production
Cross Section
90-Th-232
1180. To 3004. %
Max Ratio
Min Ratio
Th232-n.tendl Threshold 5.2910 MeV
Th232.cendl3.1 Threshold 12.750 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Th232.cendl3.1/Th232-n.tendl
Ratio
30
20
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
90-Th-232

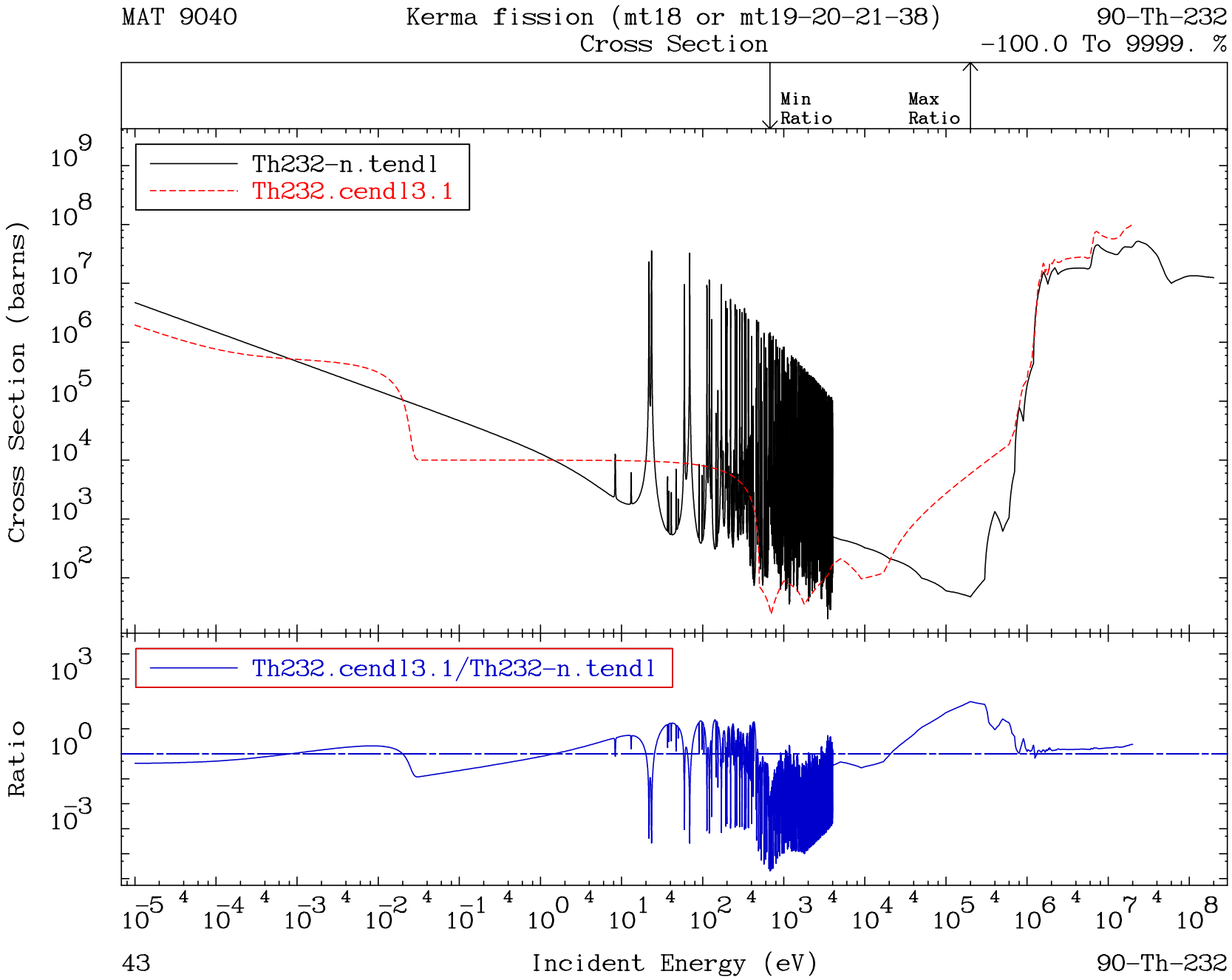

MAT 9040
He-4 Production
Cross Section
90-Th-232
-73.04 To -11.44%
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1 Threshold 11.000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
Th232.cendl3.1/Th232-n.tendl
Ratio
1.0
0.8
0.6
0.4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
90-Th-232

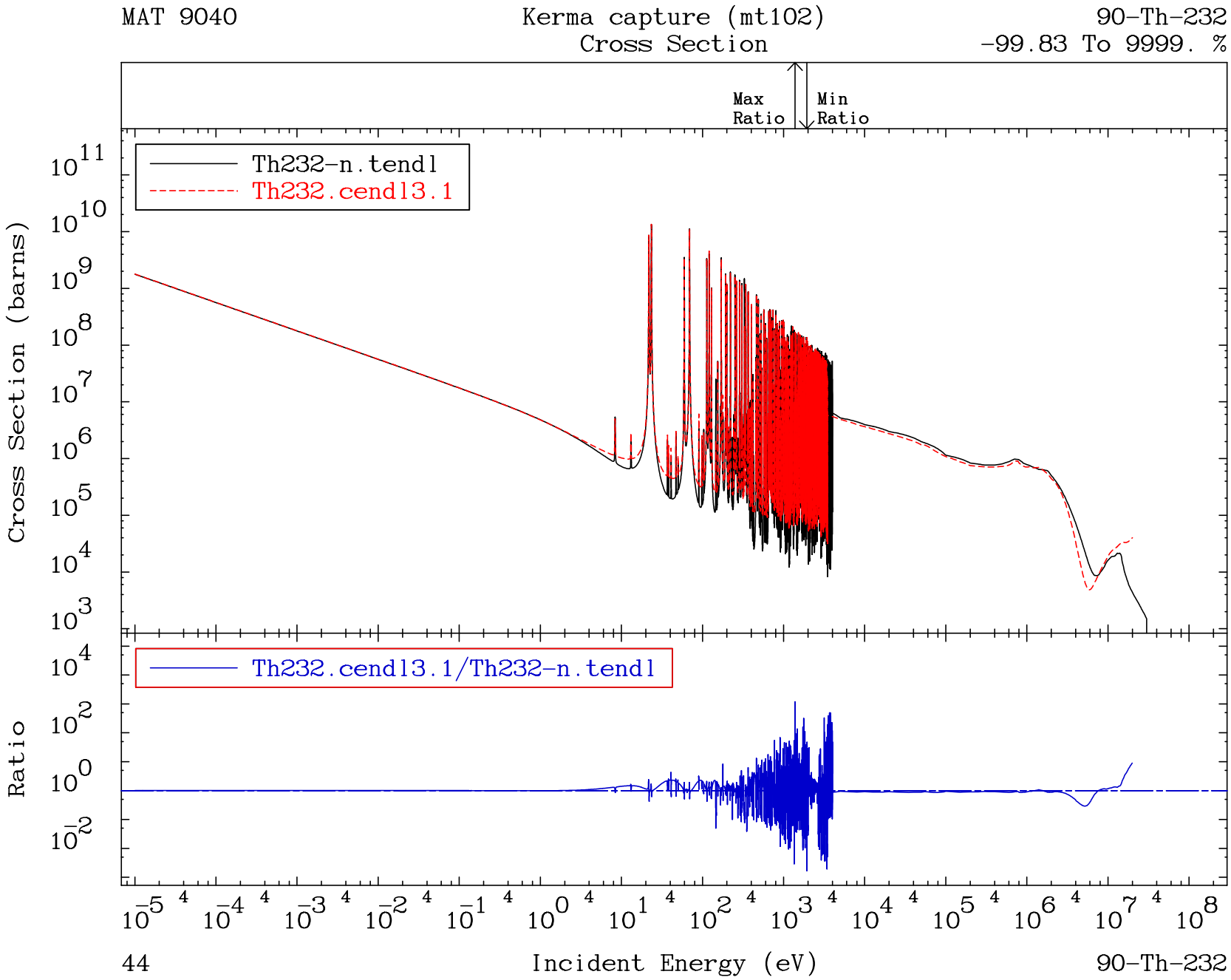

MAT 9040
Kerma total (eV-barns)
Cross Section
90-Th-232
-99.83 To 9999. %
Max Ratio
Min Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
39
Incident Energy (eV)
90-Th-232

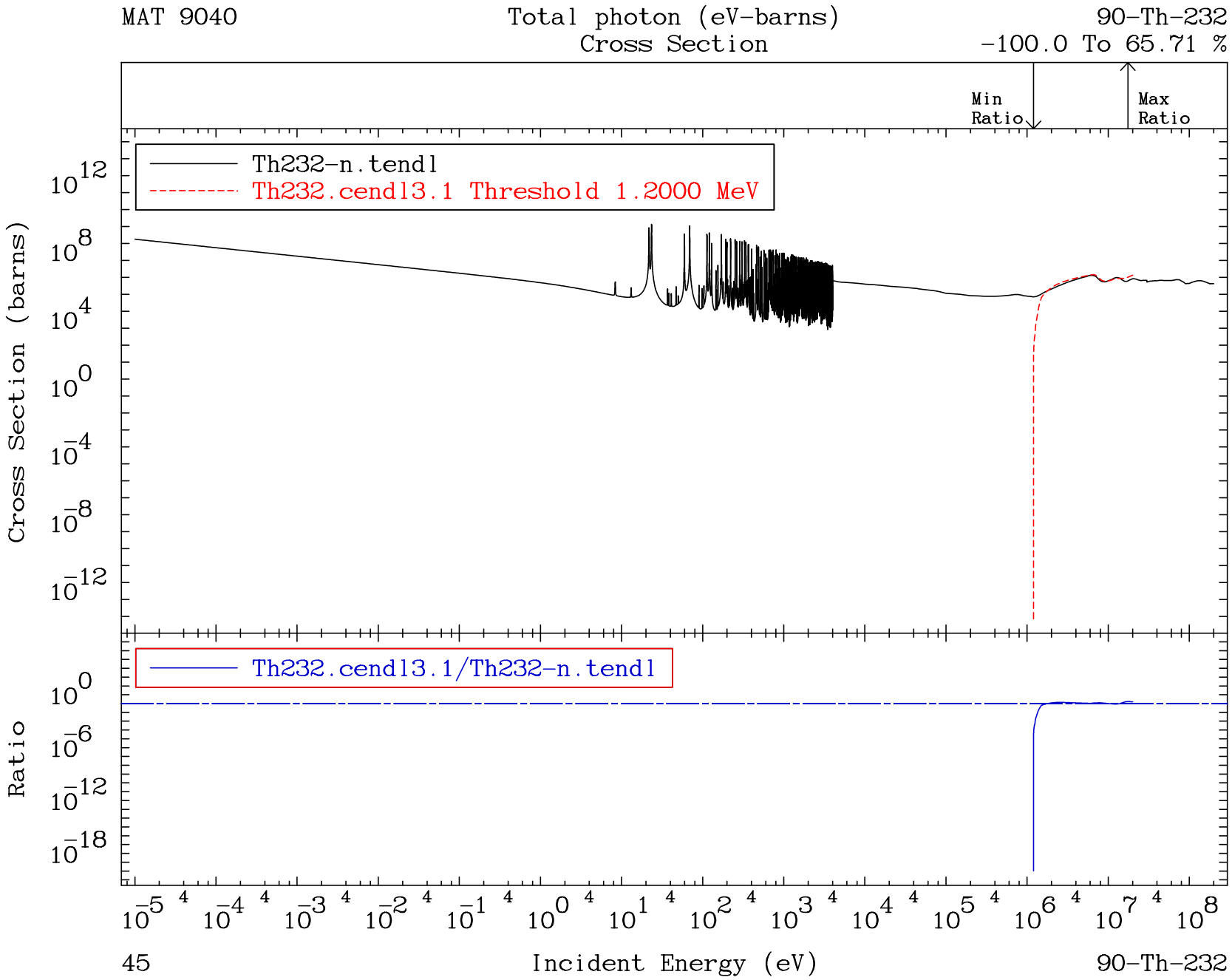

MAT 9040
Kerma elastic
Cross Section
90-Th-232
-95.24 To 2992. %
Min
Ratio
Max
Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
40
90-Th-232

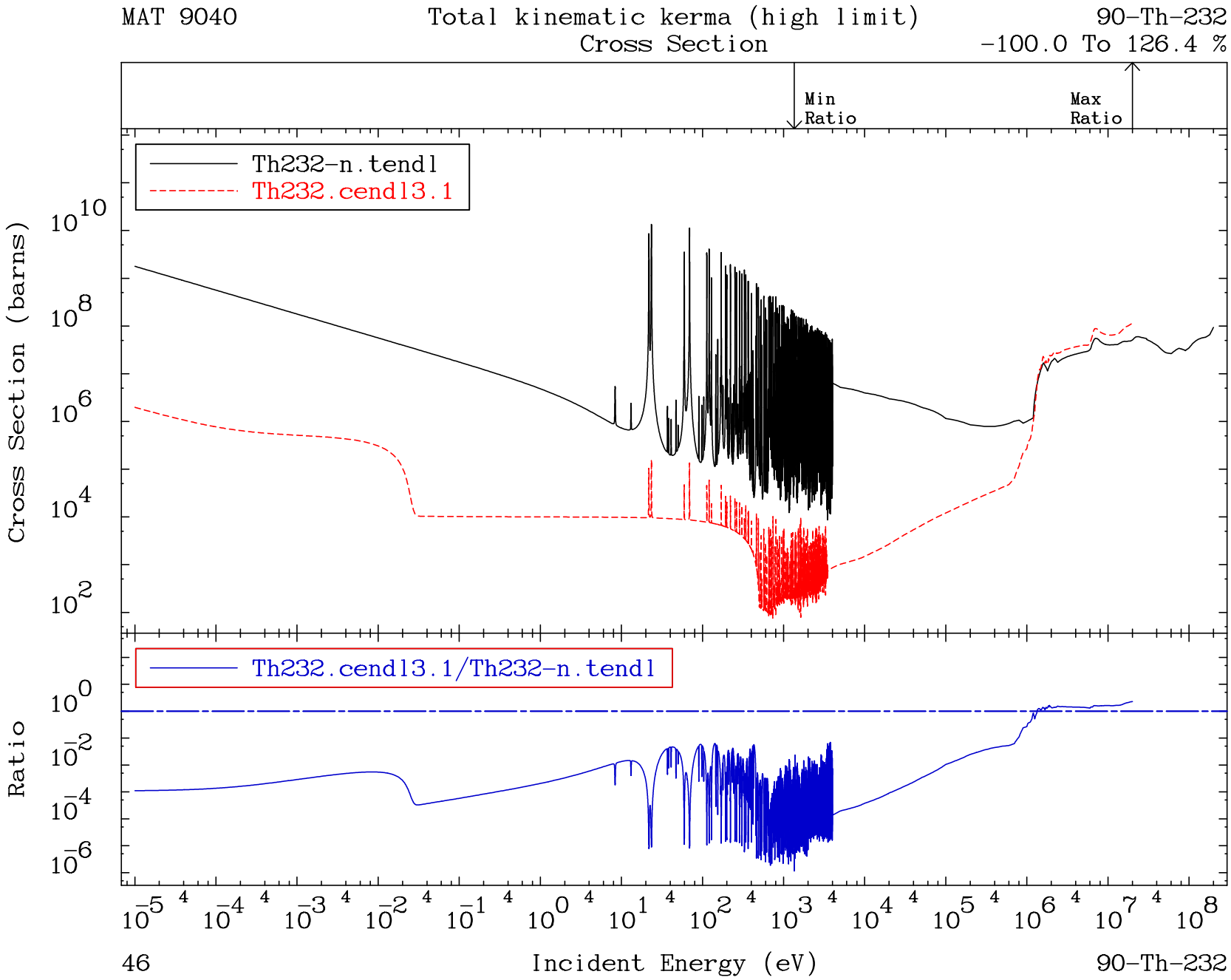

MAT 9040
Kerma non-elastic (all but mt2)
Cross Section
90-Th-232
-99.83 To 9999. %
Max Ratio
Min Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
41
90-Th-232

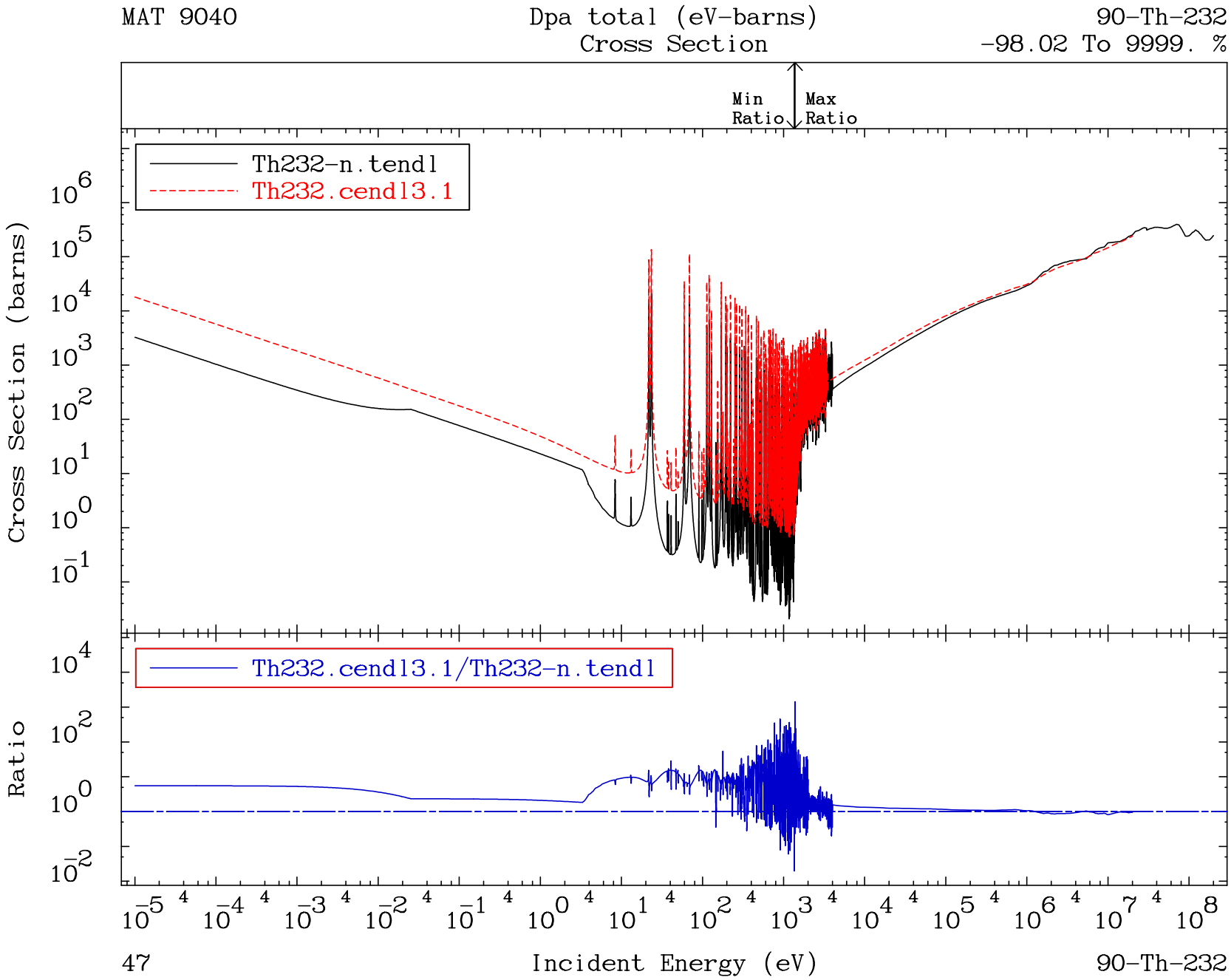

MAT 9040
Kerma inelastic (mt51-91)
Cross Section
90-Th-232
-100.0 To 107.0 %
Min Ratio
Max Ratio
Th232-n.tendl Threshold 50.000 keV
Th232.cendl3.1 Threshold 50.000 keV
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
42
90-Th-232

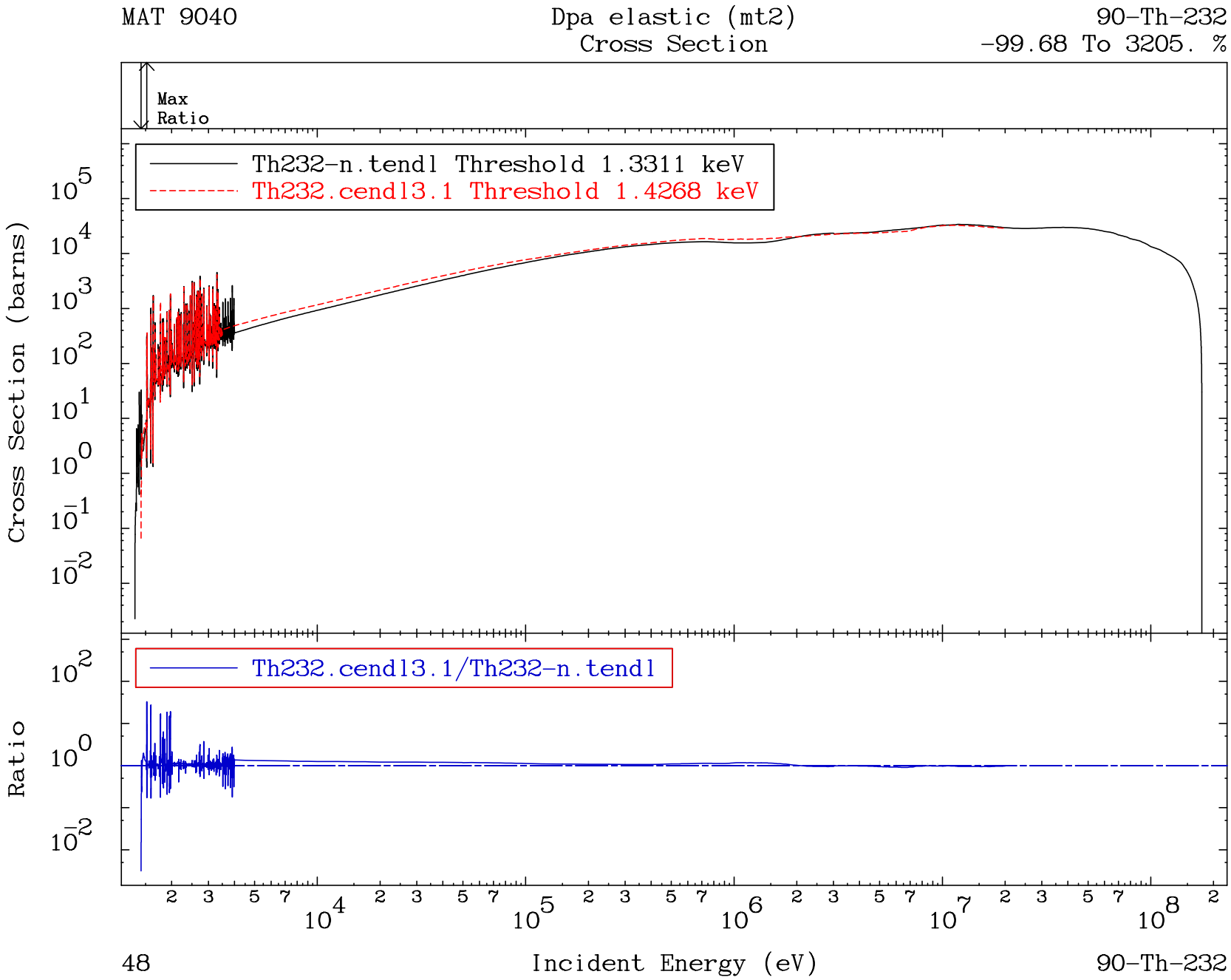

MAT 9040
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
90-Th-232
-100.0 To 9999. %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
43
90-Th-232

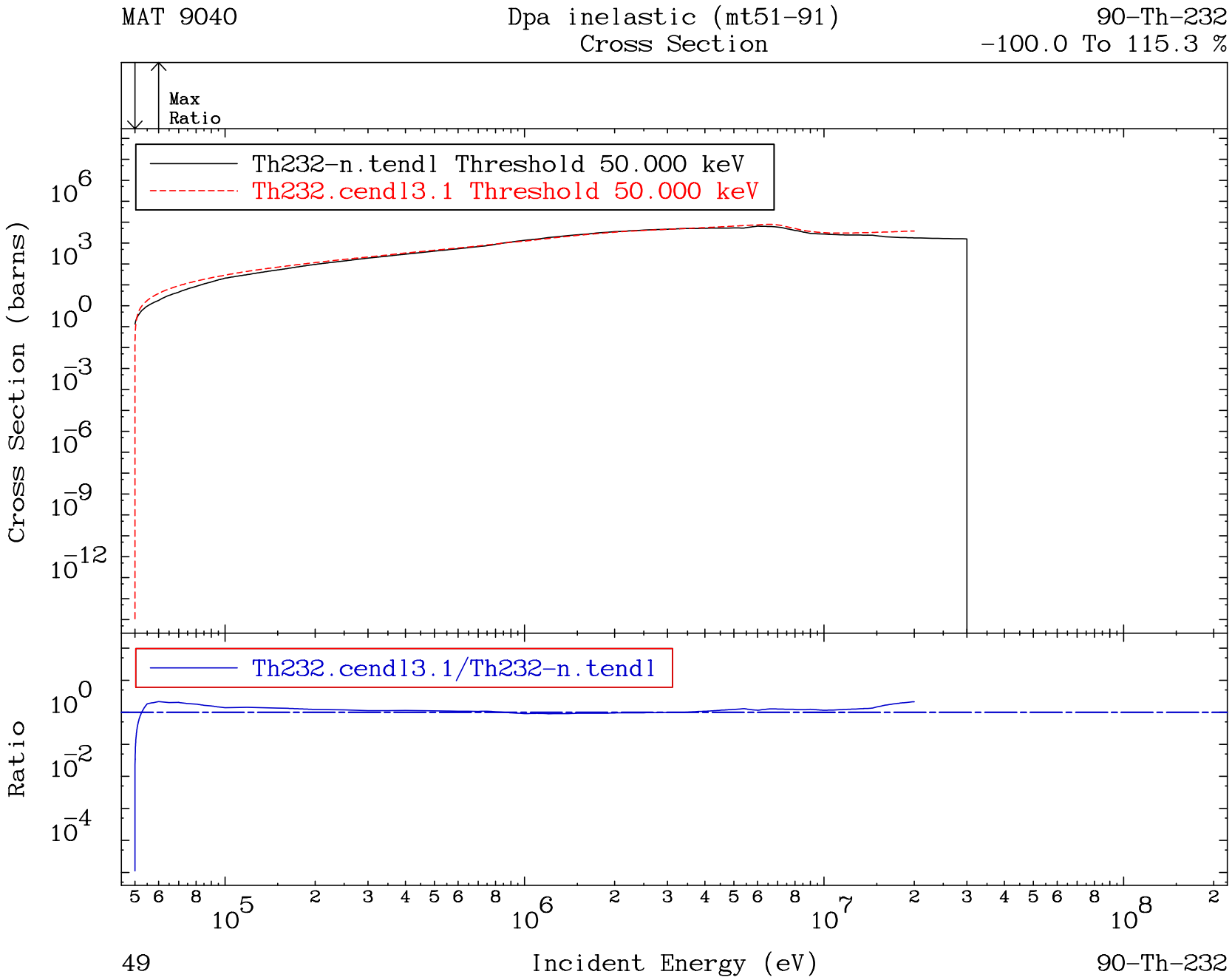

MAT 9040
Kerma capture (mt102)
Cross Section
90-Th-232
-99.83 To 9999. %
Max Ratio
Min Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
44
90-Th-232

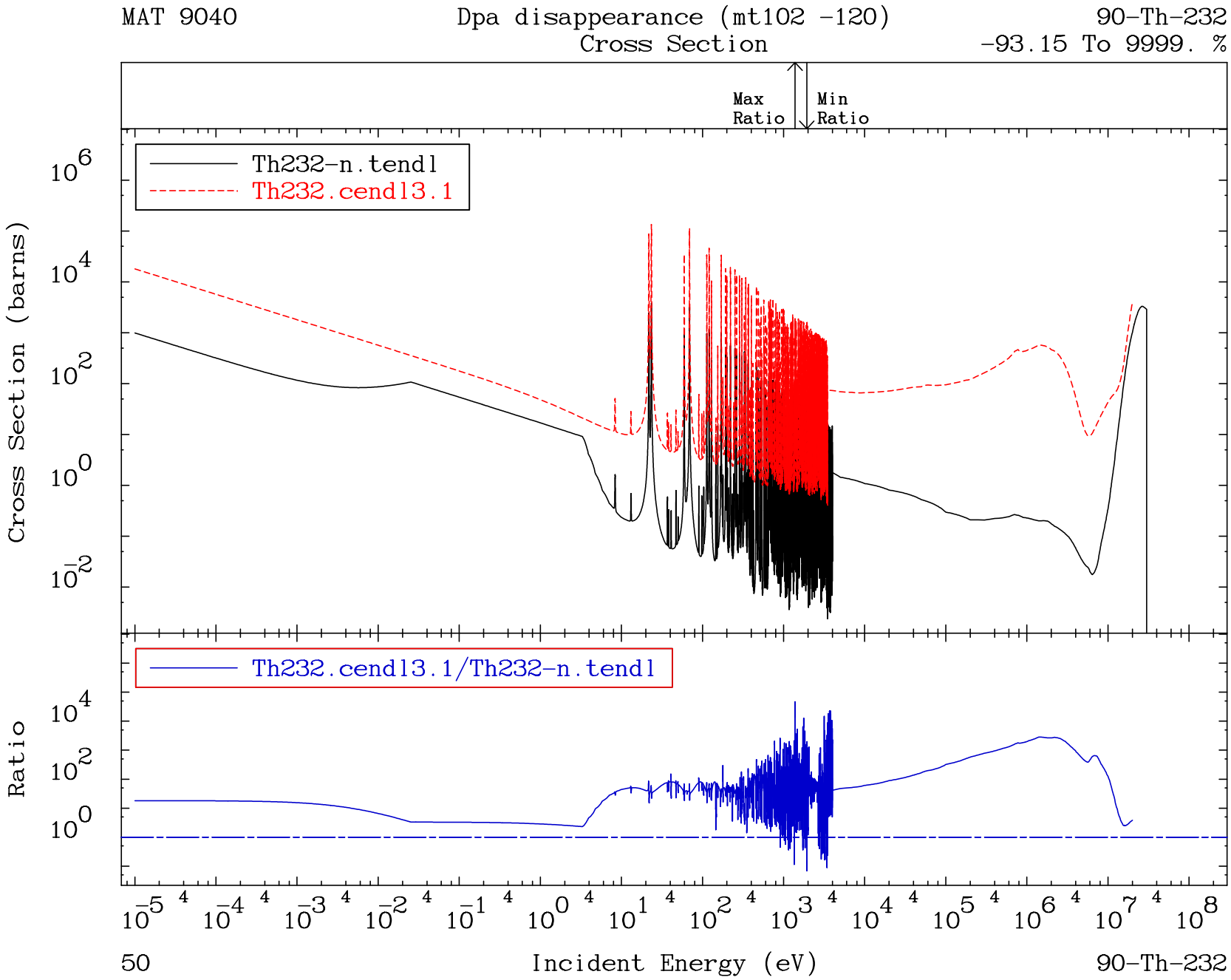

MAT 9040
Total photon (eV-barns)
Cross Section
90-Th-232
-100.0 To 65.71 %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1 Threshold 1.2000 MeV
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
45
90-Th-232


MAT 9040
Total kinematic kerma (high limit)
Cross Section
90-Th-232
-100.0 To 126.4 %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
46
90-Th-232


MAT 9040
Dpa total (eV-barns)
Cross Section
90-Th-232
-98.02 To 9999. %
Min Ratio
Max Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
47
Incident Energy (eV)
90-Th-232


MAT 9040
Dpa elastic (mt2)
Cross Section
90-Th-232
-99.68 To 3205. %
Max
Ratio
Th232-n.tendl Threshold 1.3311 keV
Th232.cendl3.1 Threshold 1.4268 keV
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
48
90-Th-232


MAT 9040
Dpa inelastic (mt51-91)
Cross Section
90-Th-232
-100.0 To 115.3 %
Max
Ratio
Th232-n.tendl Threshold 50.000 keV
Th232.cendl3.1 Threshold 50.000 keV
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
49
90-Th-232


MAT 9040
Dpa disappearance (mt102 -120)
Cross Section
90-Th-232
-93.15 To 9999. %
Max Ratio
Min Ratio
Th232-n.tendl
Th232.cendl3.1
Cross Section (barns)
Th232.cendl3.1/Th232-n.tendl
Ratio
Incident Energy (eV)
50
90-Th-232