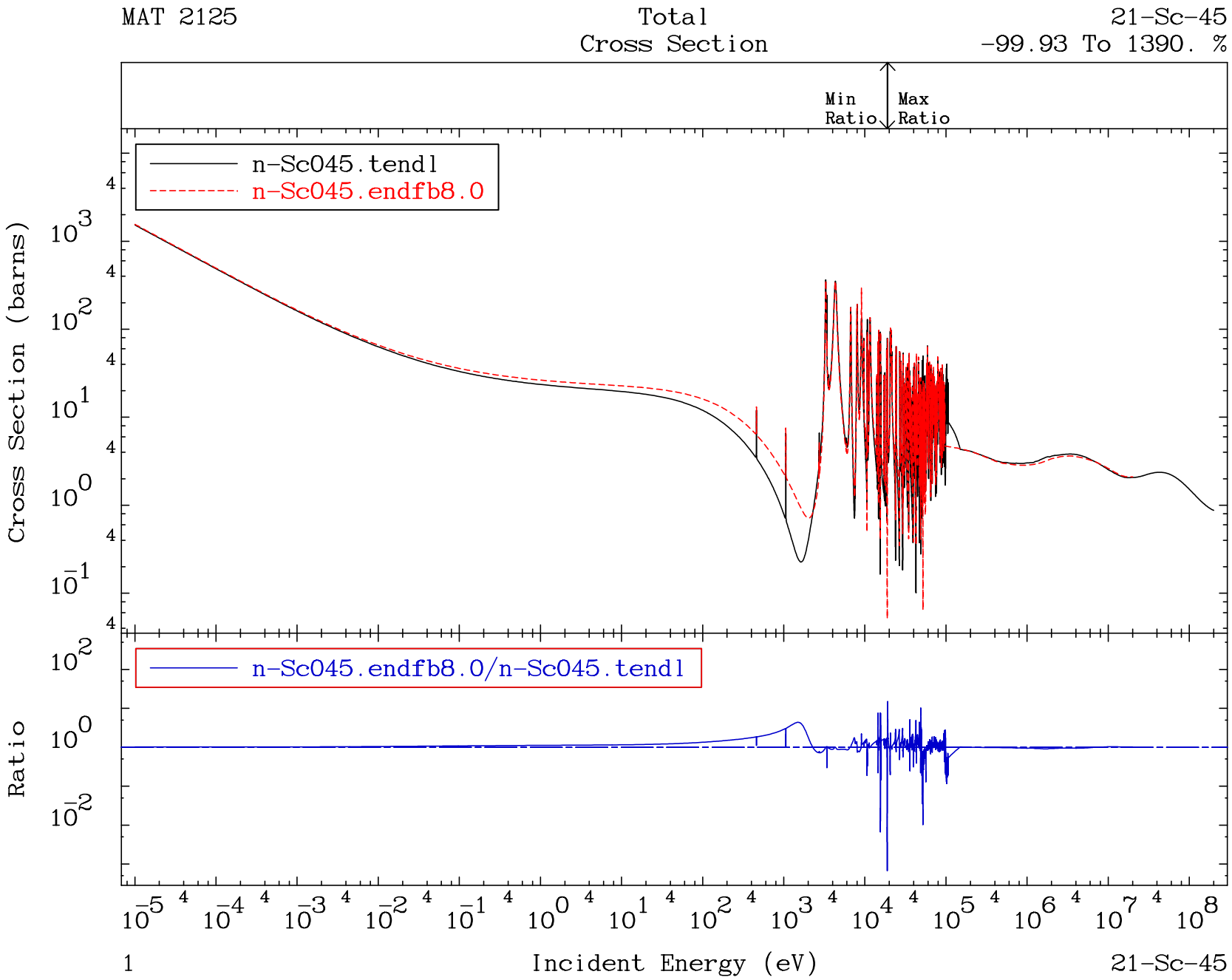
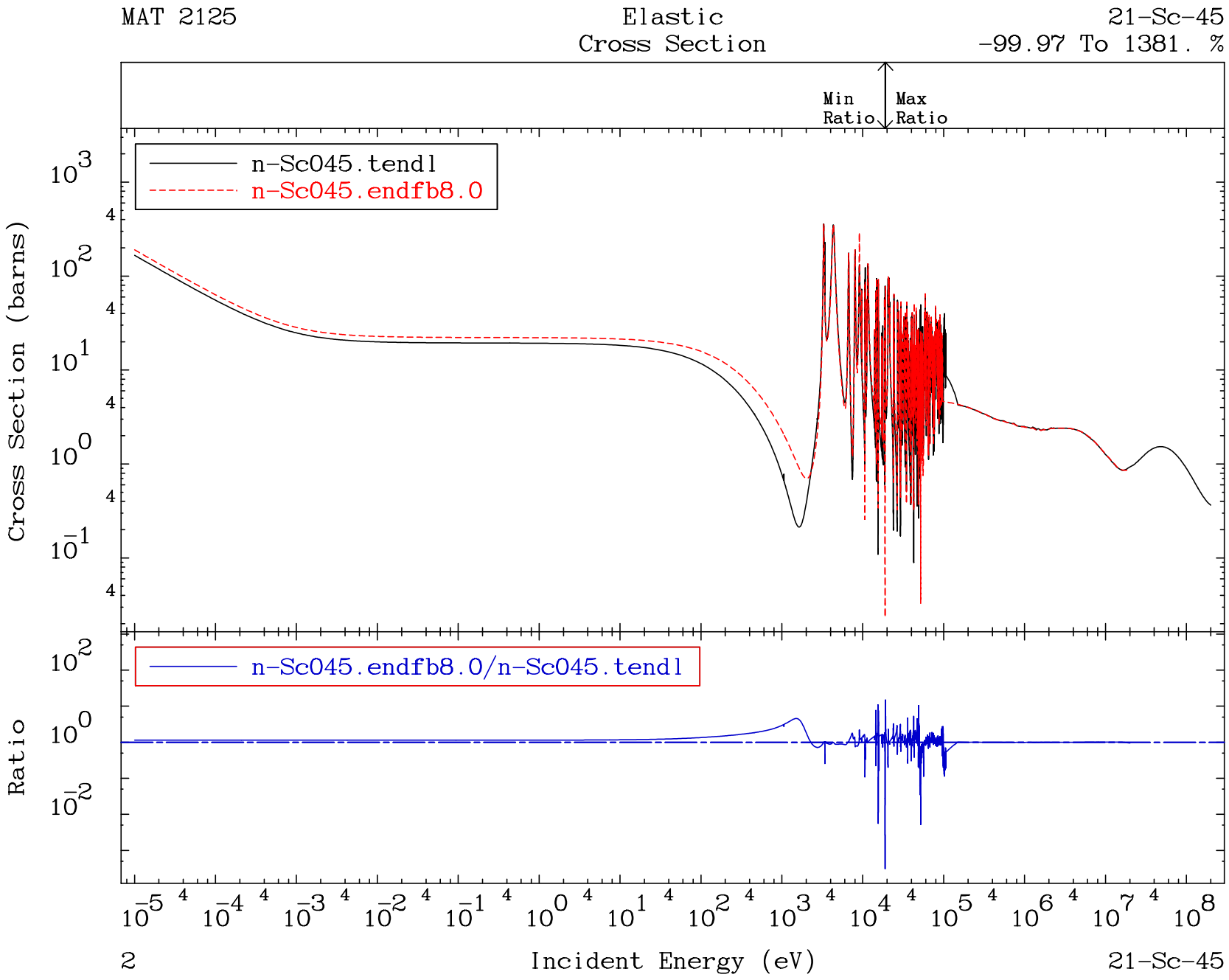
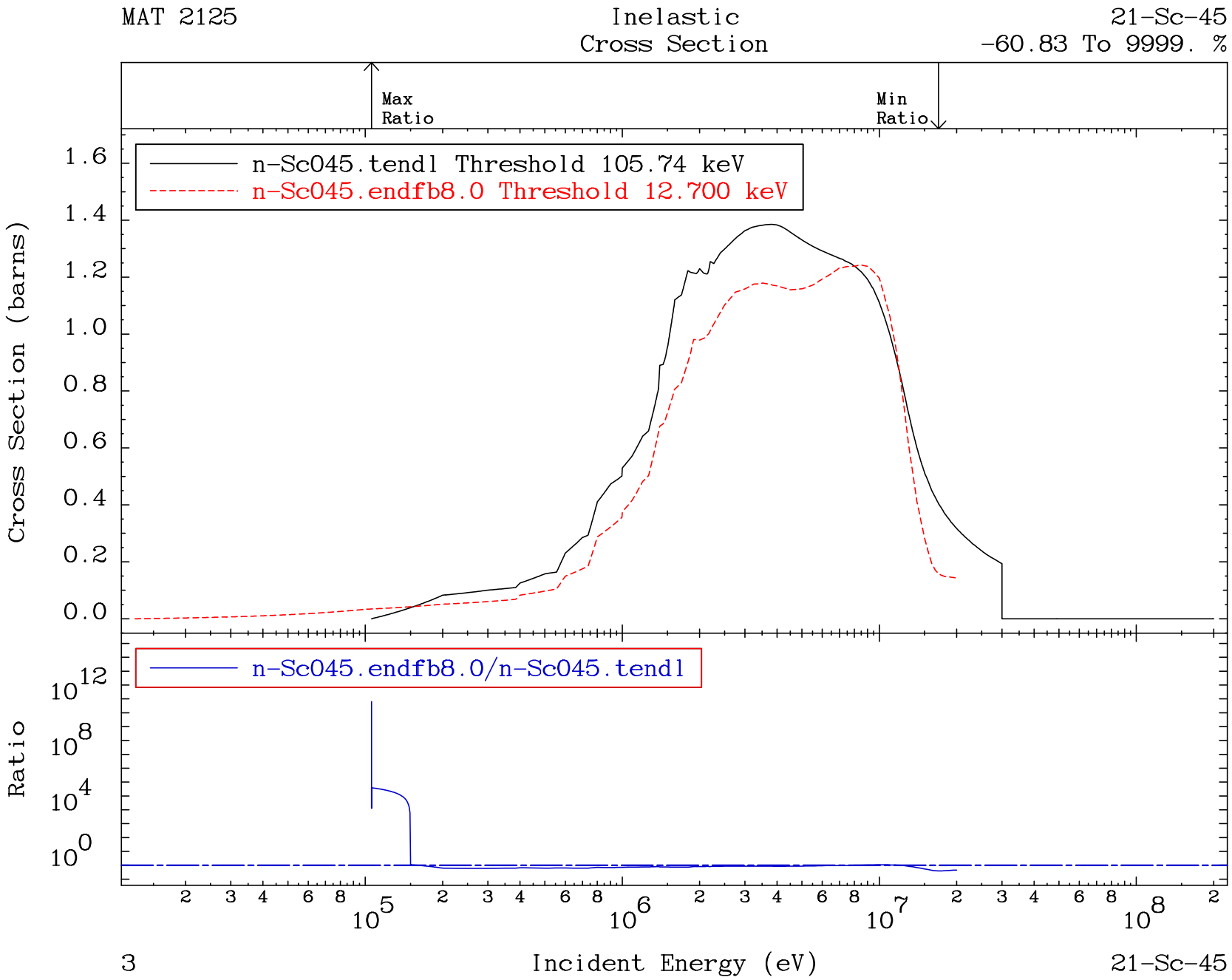
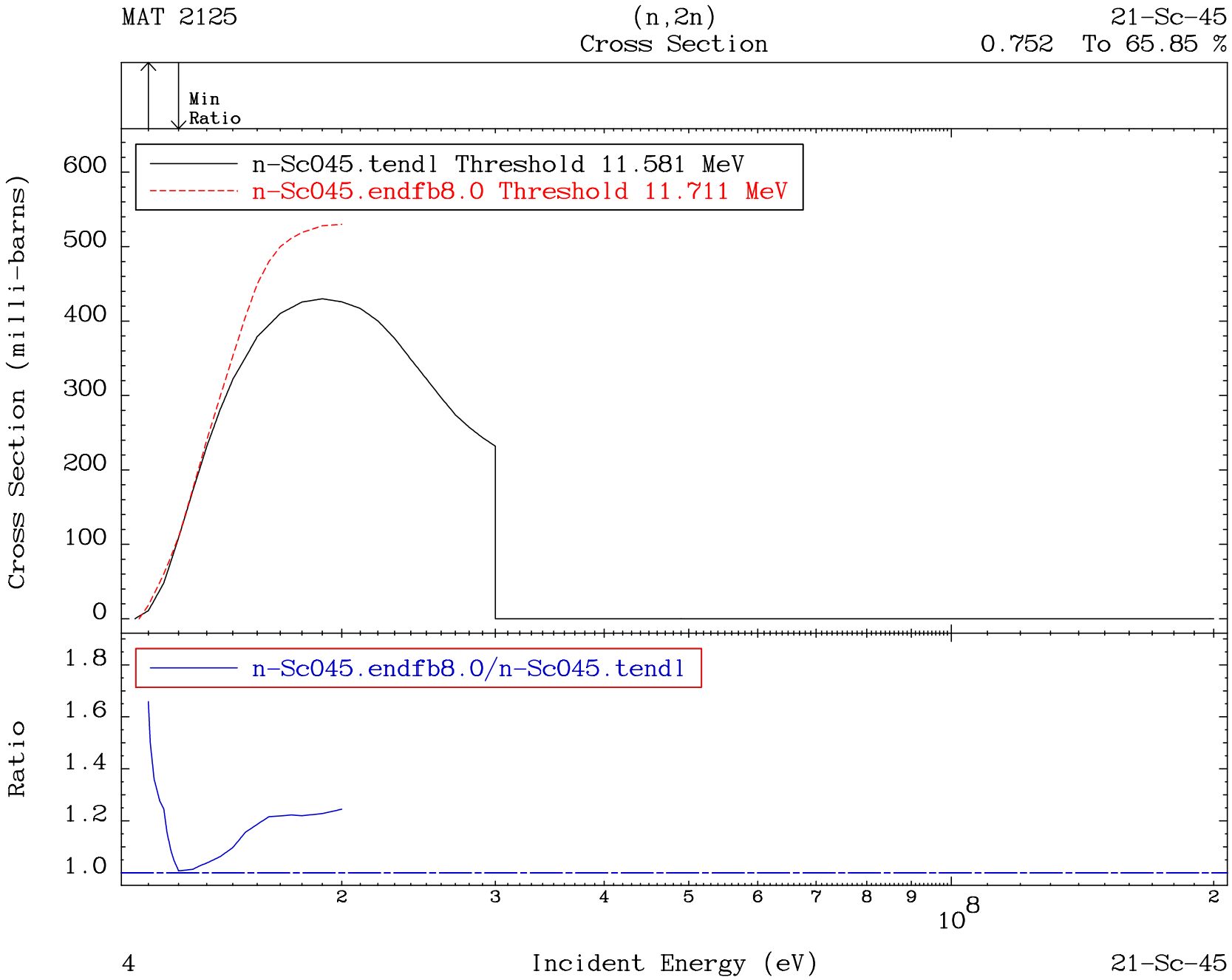
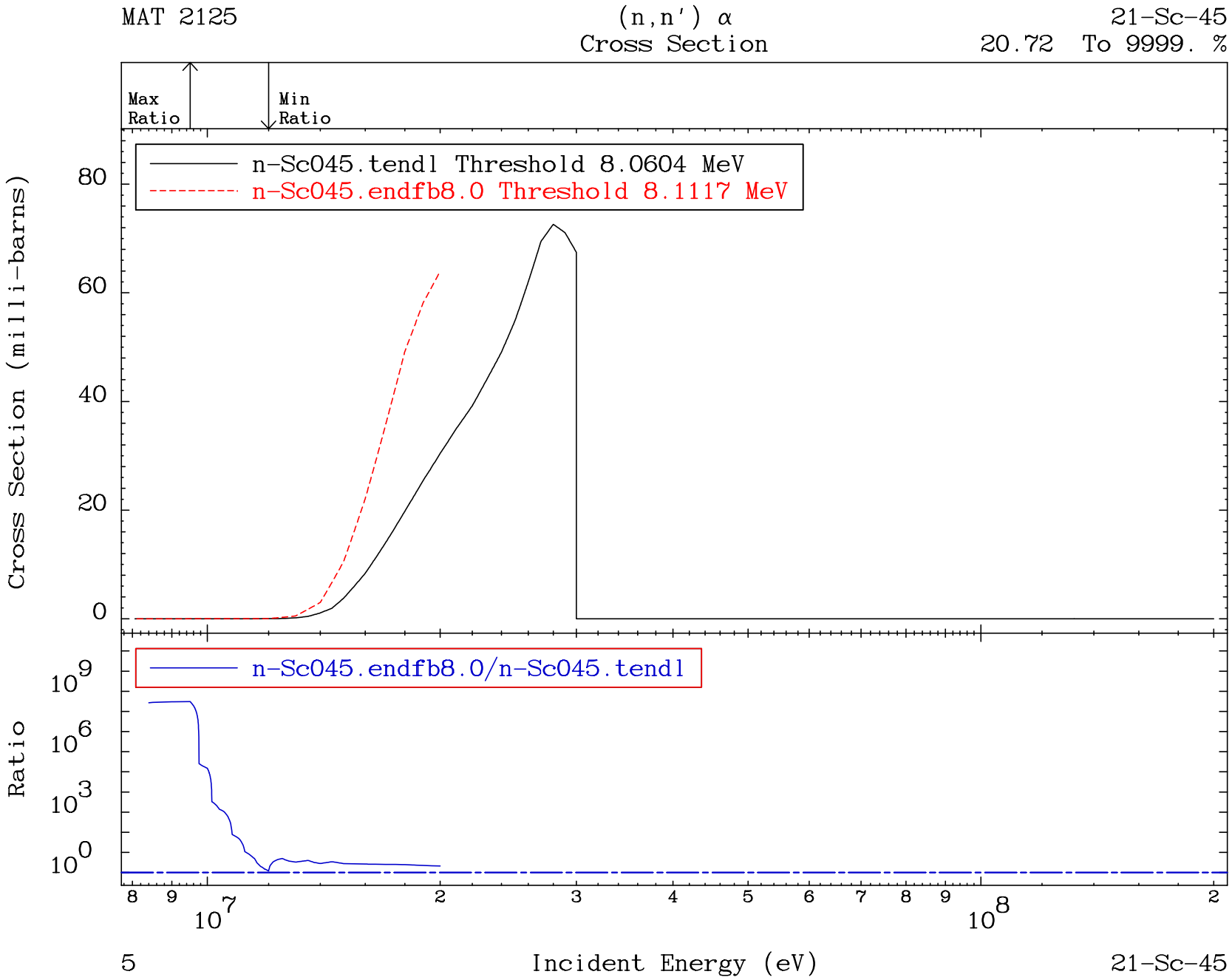
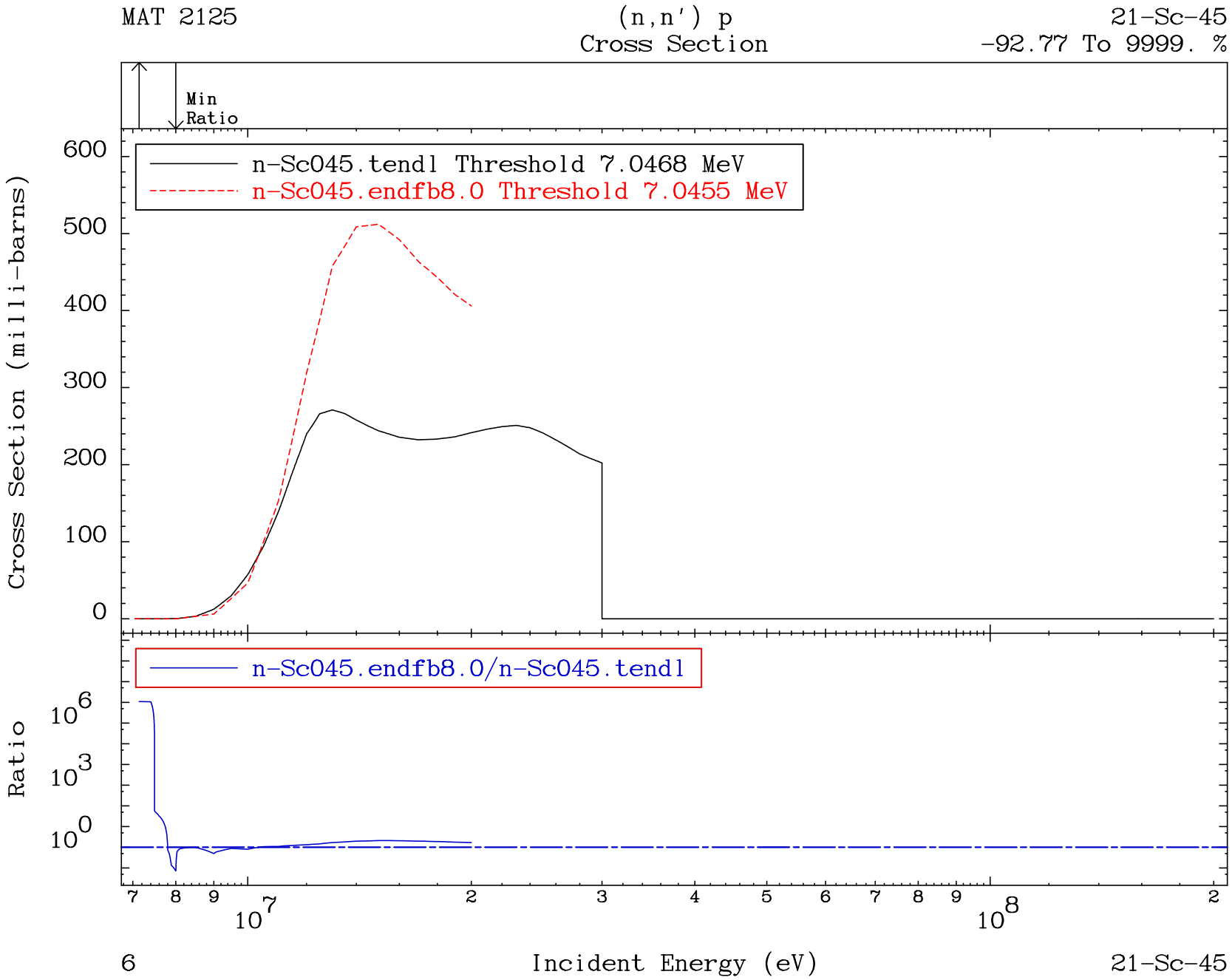

MAT 2125
Total
Cross Section
21-Sc-45
-99.93 To 1390. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
1
21-Sc-45

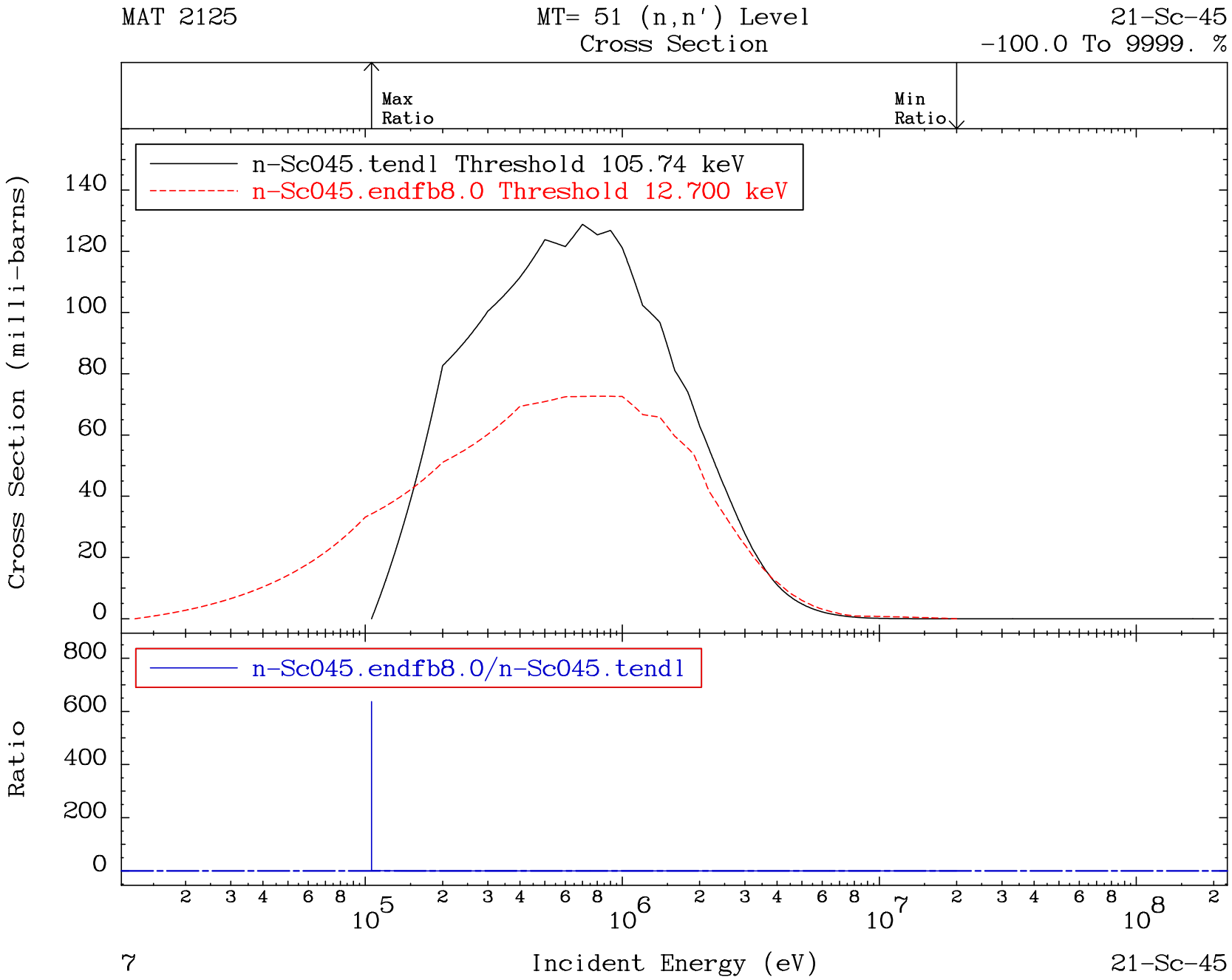

MAT 2125
Elastic
Cross Section
21-Sc-45
-99.97 To 1381. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
2
21-Sc-45

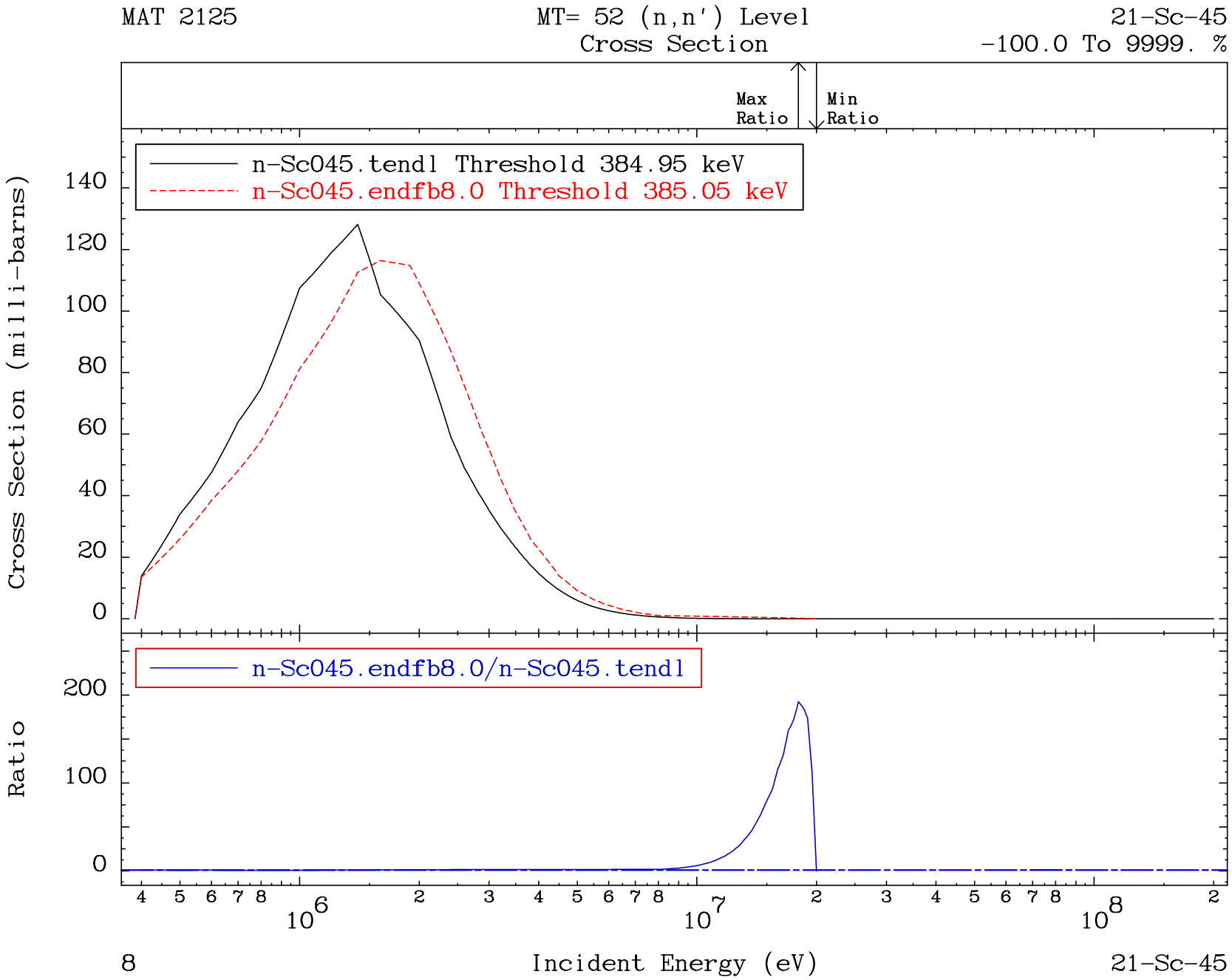

MAT 2125
Inelastic
Cross Section
21-Sc-45
-60.83 To 9999. %
Max
Ratio
Min
Ratio
n-Sc045.tendl Threshold 105.74 keV
n-Sc045.endfb8.0 Threshold 12.700 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^12
10^8
10^4
10^0
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
3
Incident Energy (eV)
21-Sc-45

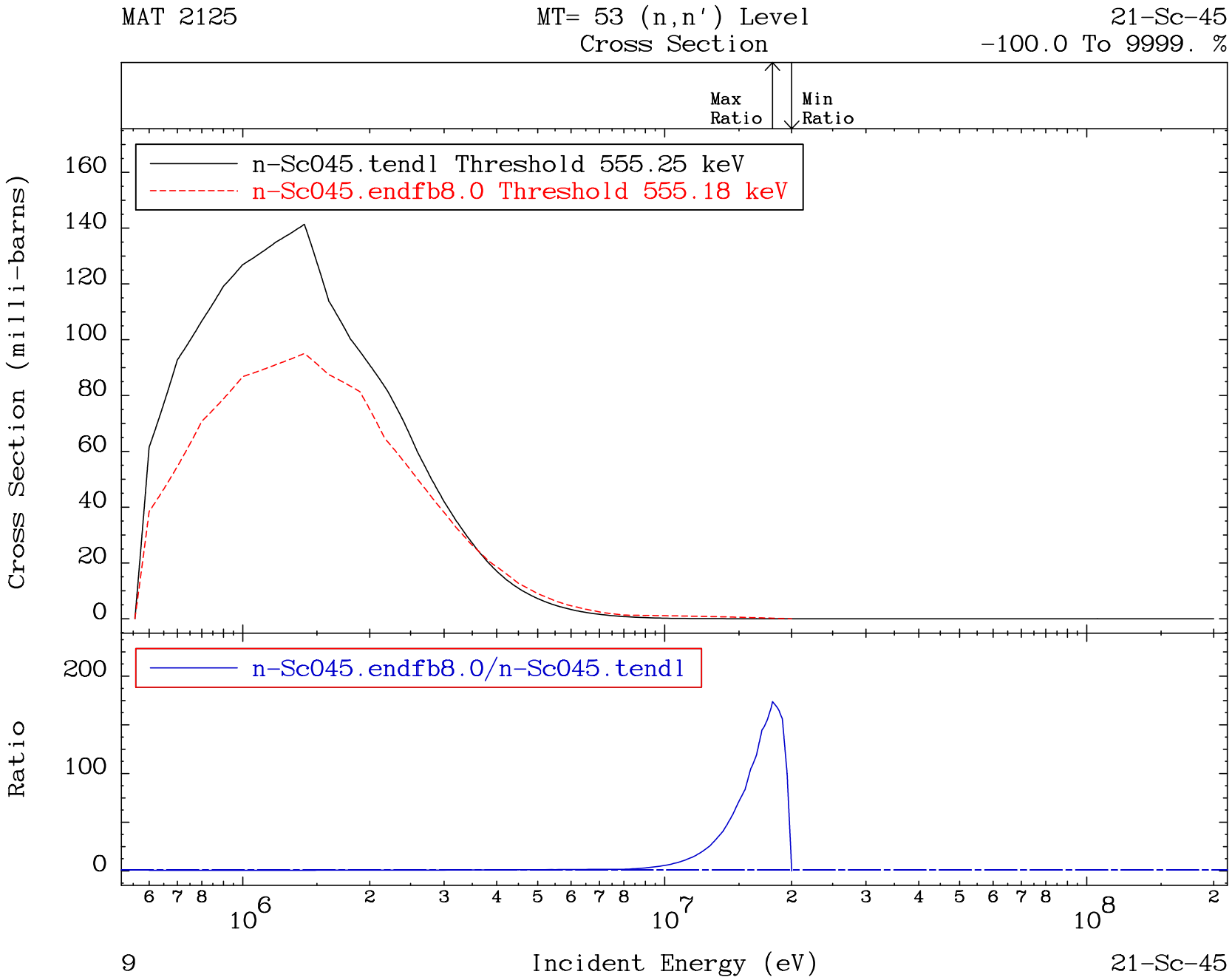

MAT 2125
(n,2n)
Cross Section
21-Sc-45
0.752 To 65.85 %
Min
Ratio
n-Sc045.tendl Threshold 11.581 MeV
n-Sc045.endfb8.0 Threshold 11.711 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
1.8
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
21-Sc-45

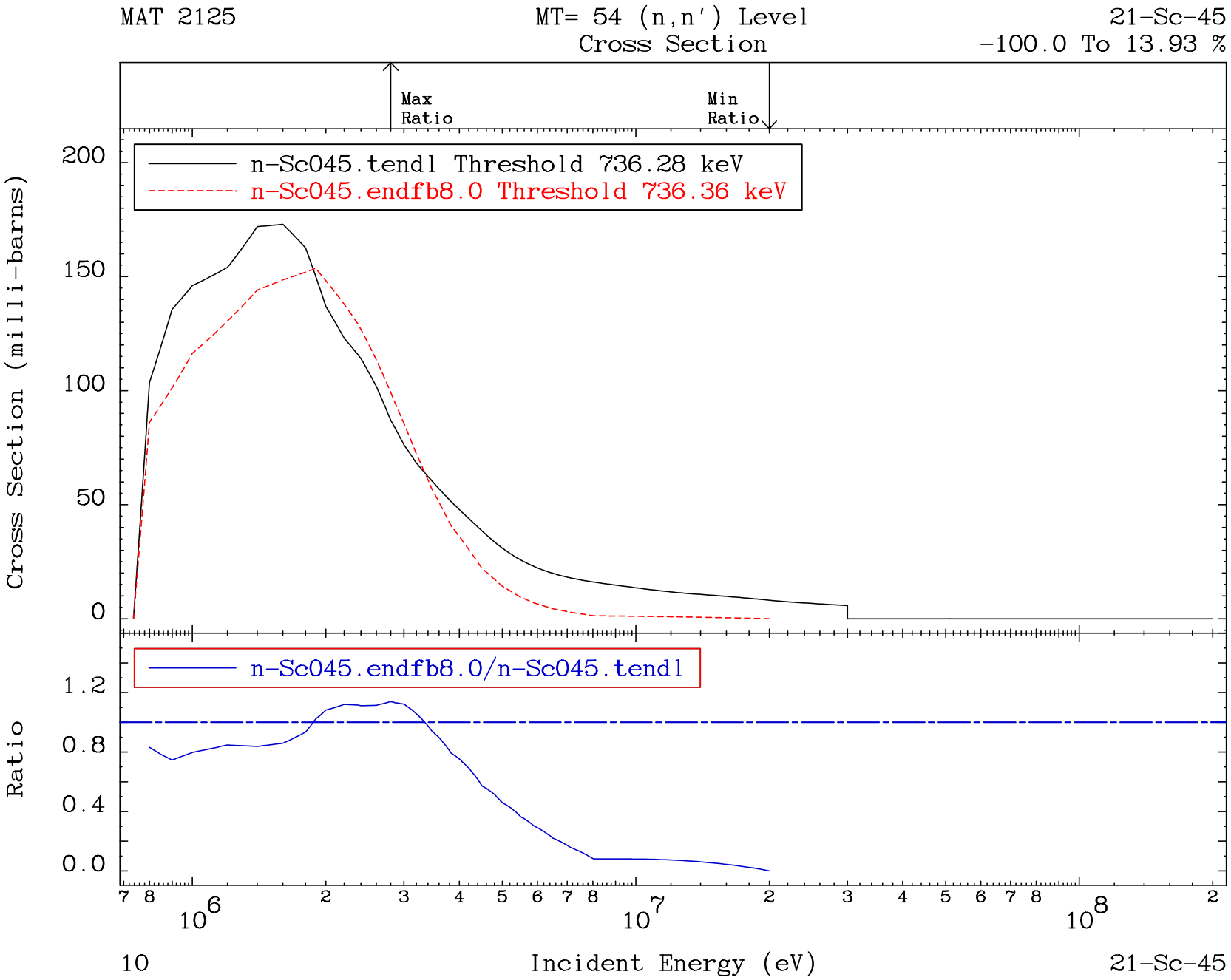

MAT 2125
(n,n') α
Cross Section
21-Sc-45
20.72 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 8.0604 MeV
n-Sc045.endfb8.0 Threshold 8.1117 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^9
10^6
10^3
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
21-Sc-45

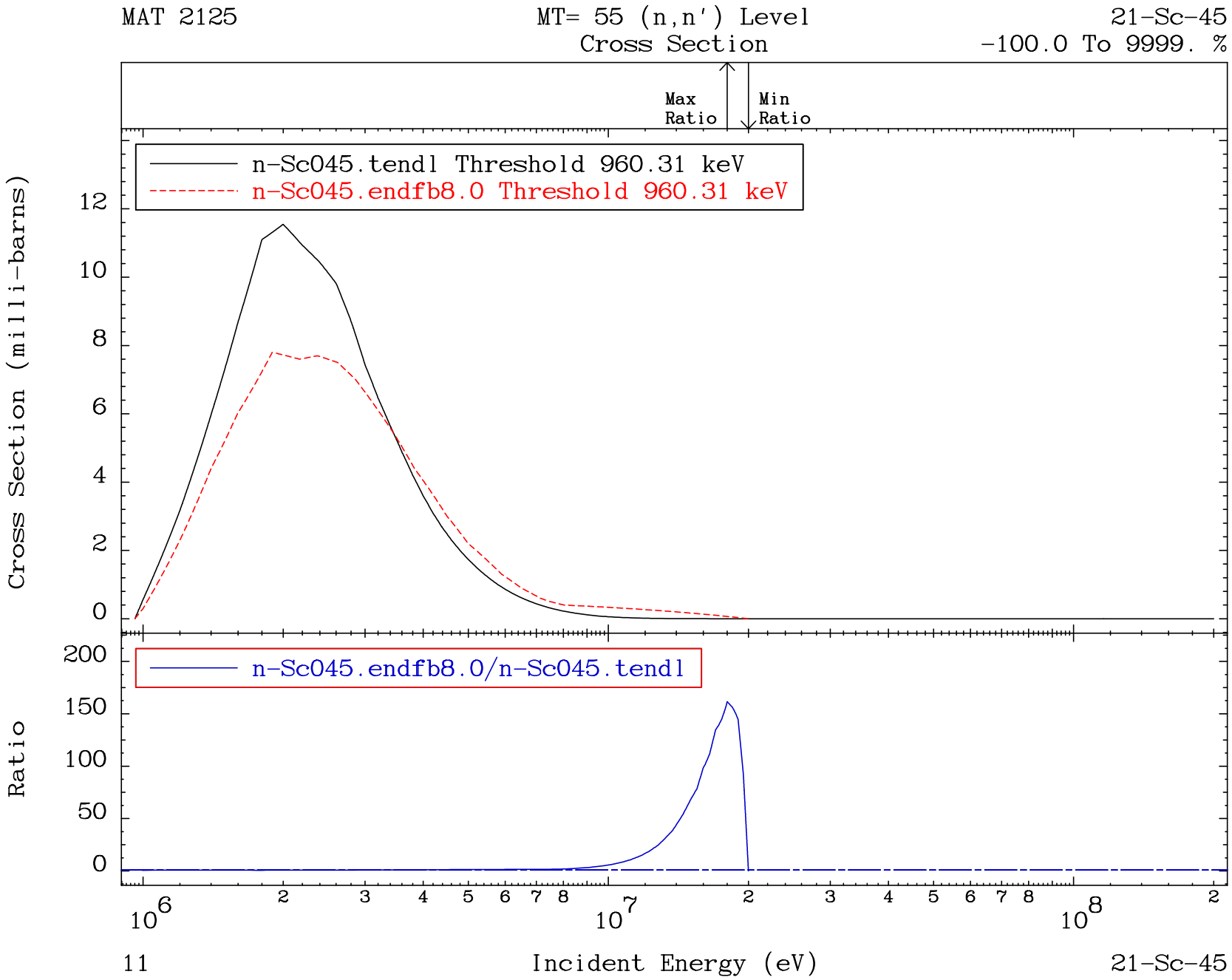

MAT 2125
(n,n') p
Cross Section
21-Sc-45
-92.77 To 9999. %
Min
Ratio
n-Sc045.tendl Threshold 7.0468 MeV
n-Sc045.endfb8.0 Threshold 7.0455 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^6
10^3
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
21-Sc-45

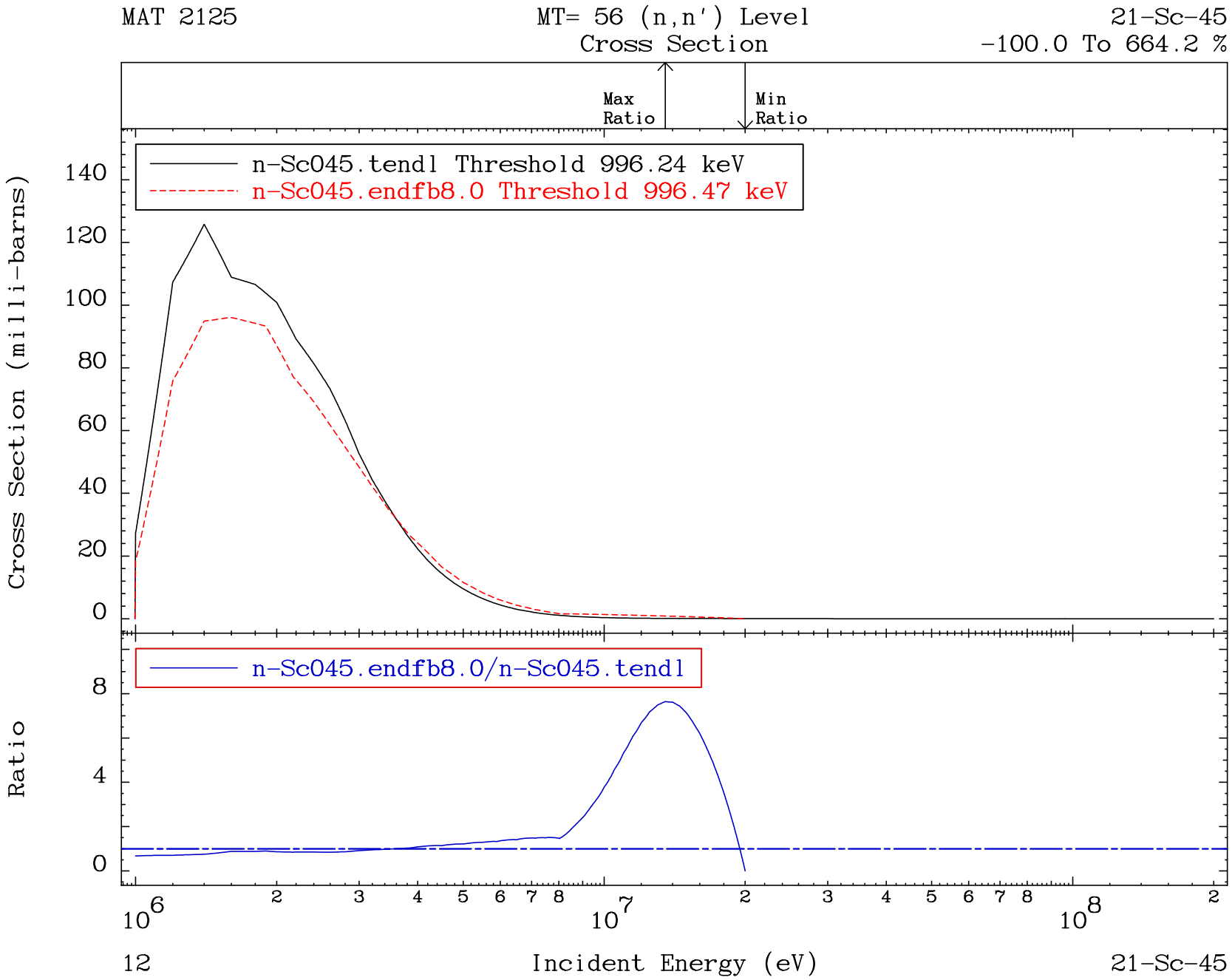

MAT 2125
MT= 51 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 9999. %
Max
Ratio
Min
Ratio
n-Sc045.tendl Threshold 105.74 keV
n-Sc045.endfb8.0 Threshold 12.700 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
800
600
400
200
0
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
7
Incident Energy (eV)
21-Sc-45

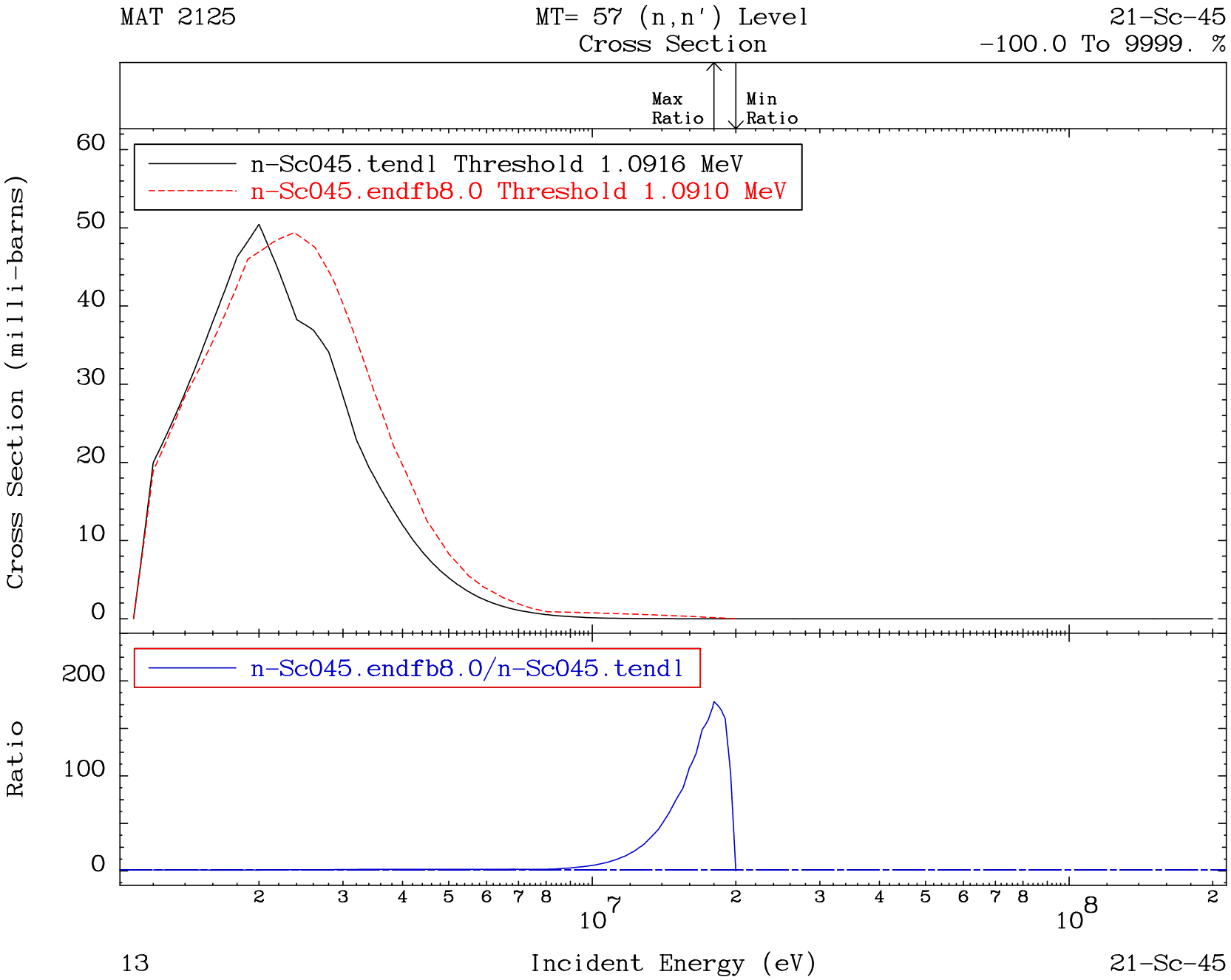

MAT 2125
MT= 52 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 384.95 keV
n-Sc045.endfb8.0 Threshold 385.05 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
200
100
0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
21-Sc-45

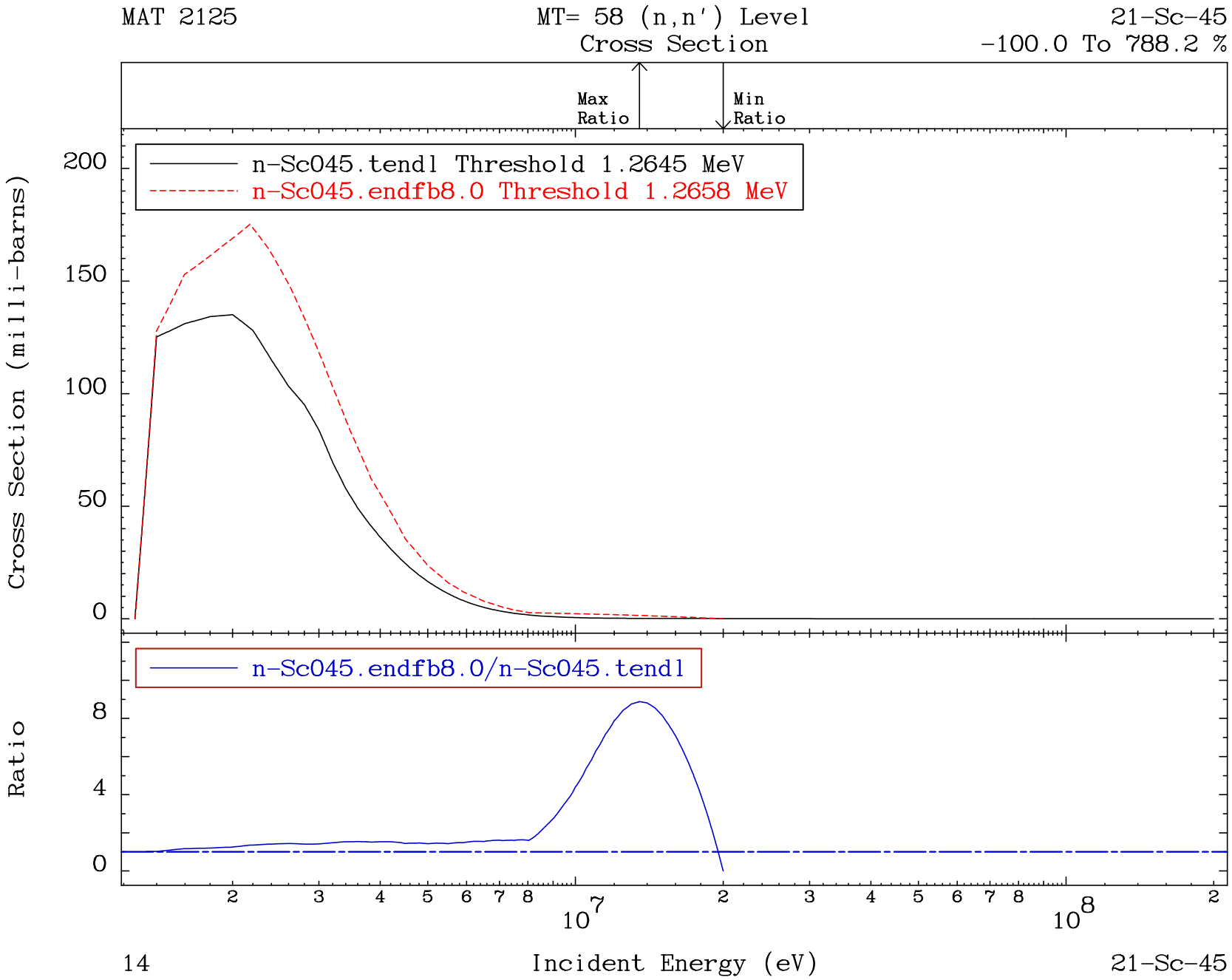

MAT 2125
MT= 53 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 555.25 keV
n-Sc045.endfb8.0 Threshold 555.18 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
200
100
0
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
21-Sc-45

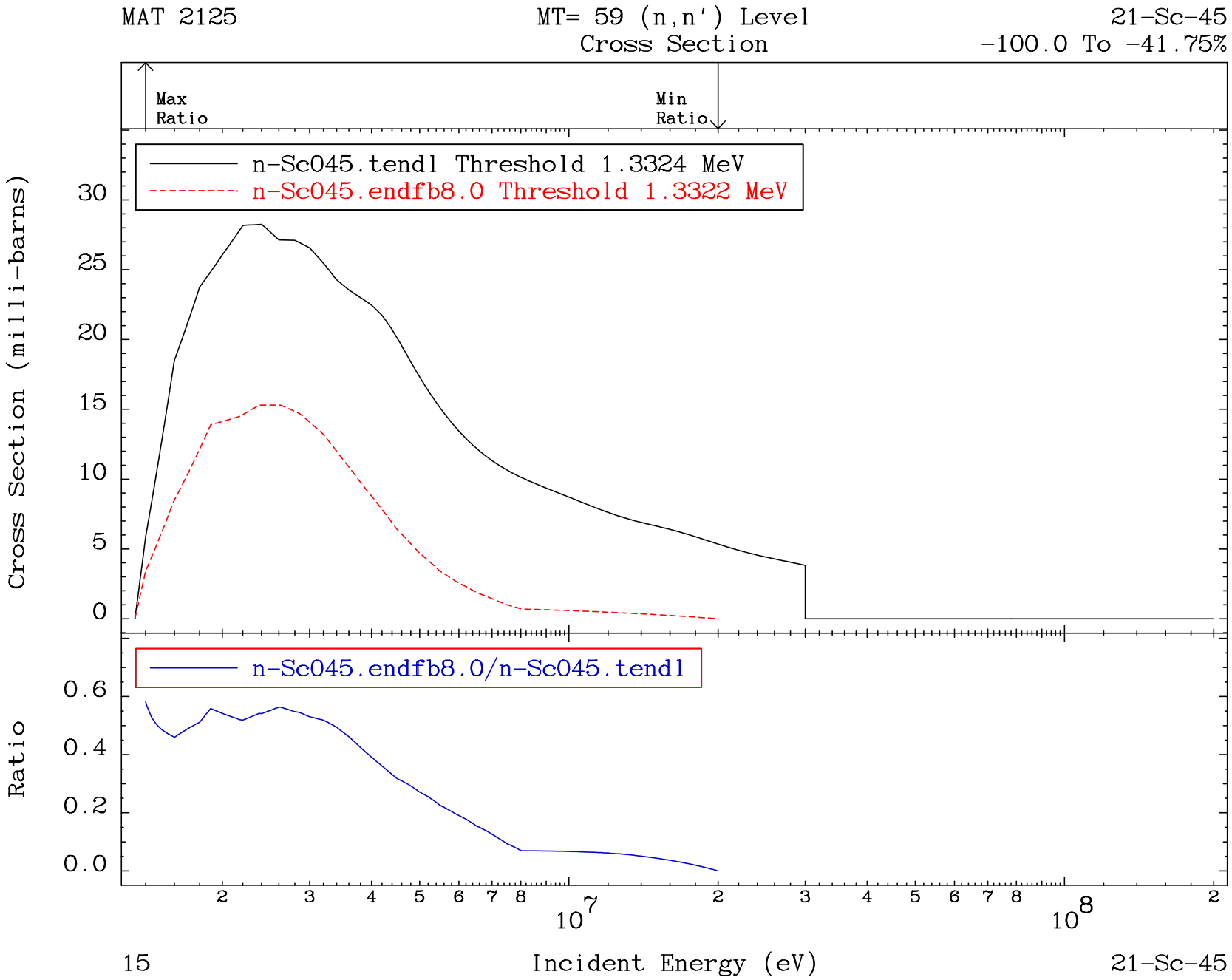

MAT 2125
MT= 54 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 13.93 %
Max
Ratio
Min
Ratio
n-Sc045.tendl Threshold 736.28 keV
n-Sc045.endfb8.0 Threshold 736.36 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
1.2
0.8
0.4
0.0
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
10
Incident Energy (eV)
21-Sc-45

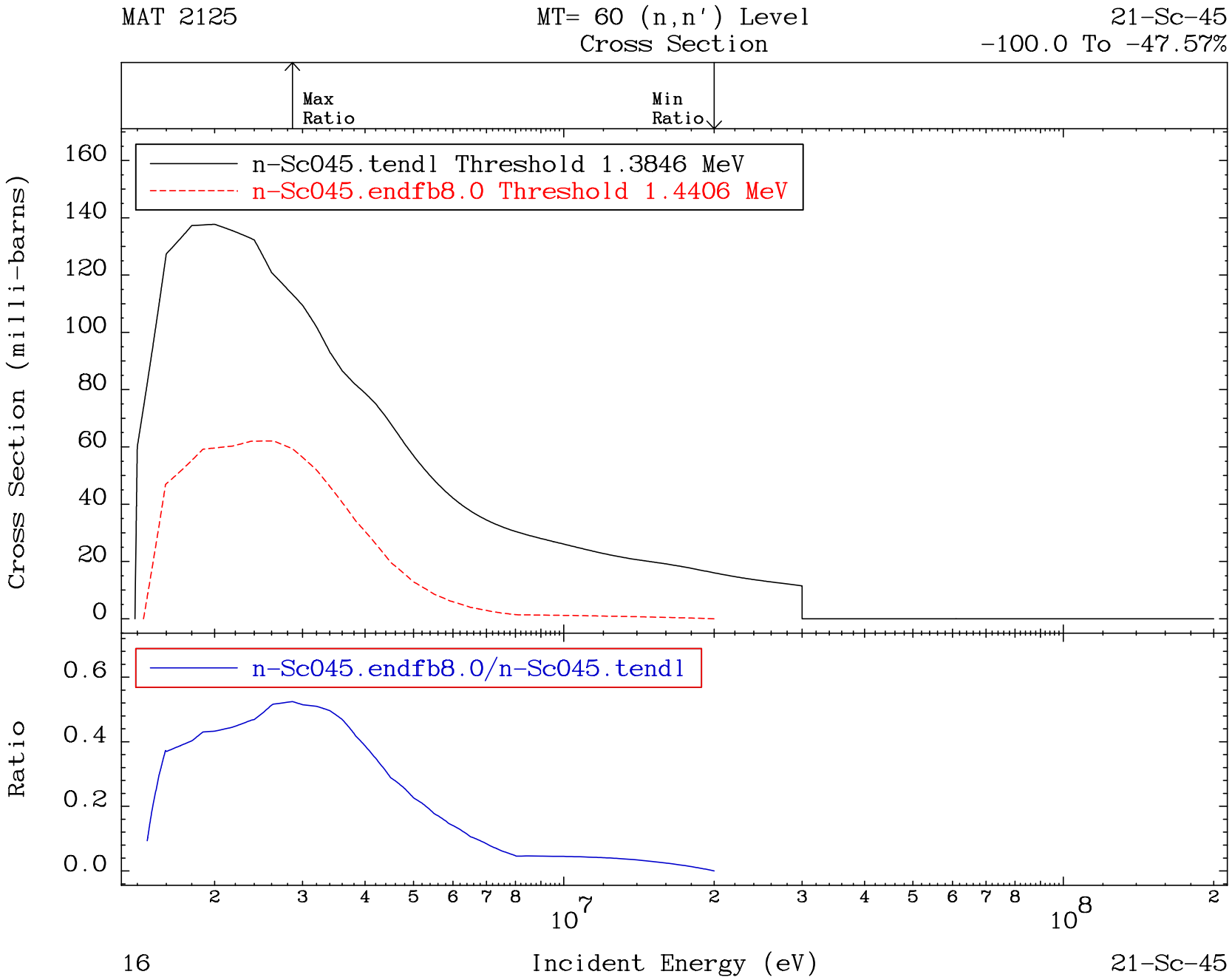

MAT 2125
MT= 55 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 960.31 keV
n-Sc045.endfb8.0 Threshold 960.31 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
0
50
100
150
200
10^6
10^7
10^8
Incident Energy (eV)
11
21-Sc-45

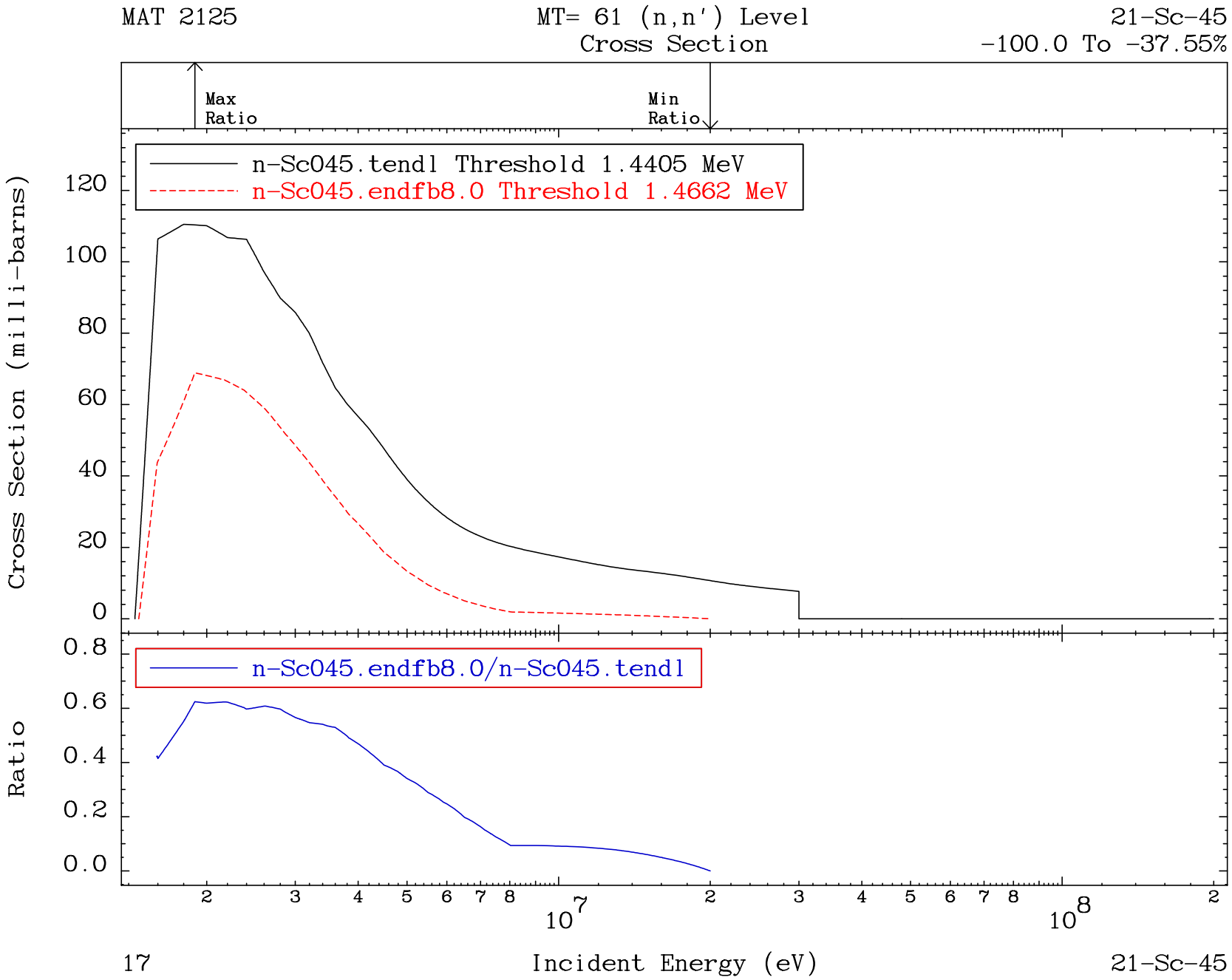

MAT 2125
MT= 56 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 664.2 %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 996.24 keV
n-Sc045.endfb8.0 Threshold 996.47 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
8
4
0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
21-Sc-45

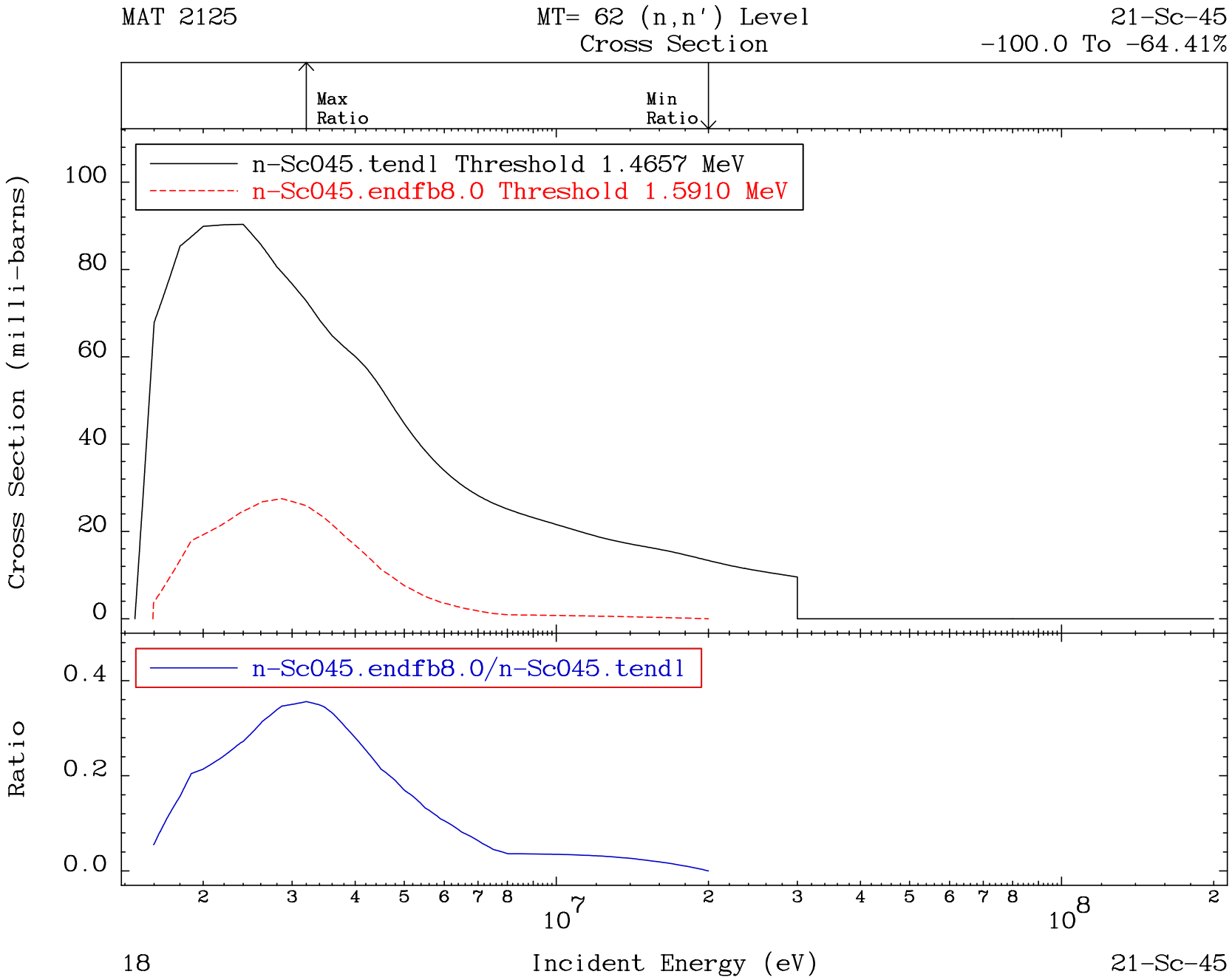

MAT 2125
MT= 57 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 1.0916 MeV
n-Sc045.endfb8.0 Threshold 1.0910 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
21-Sc-45

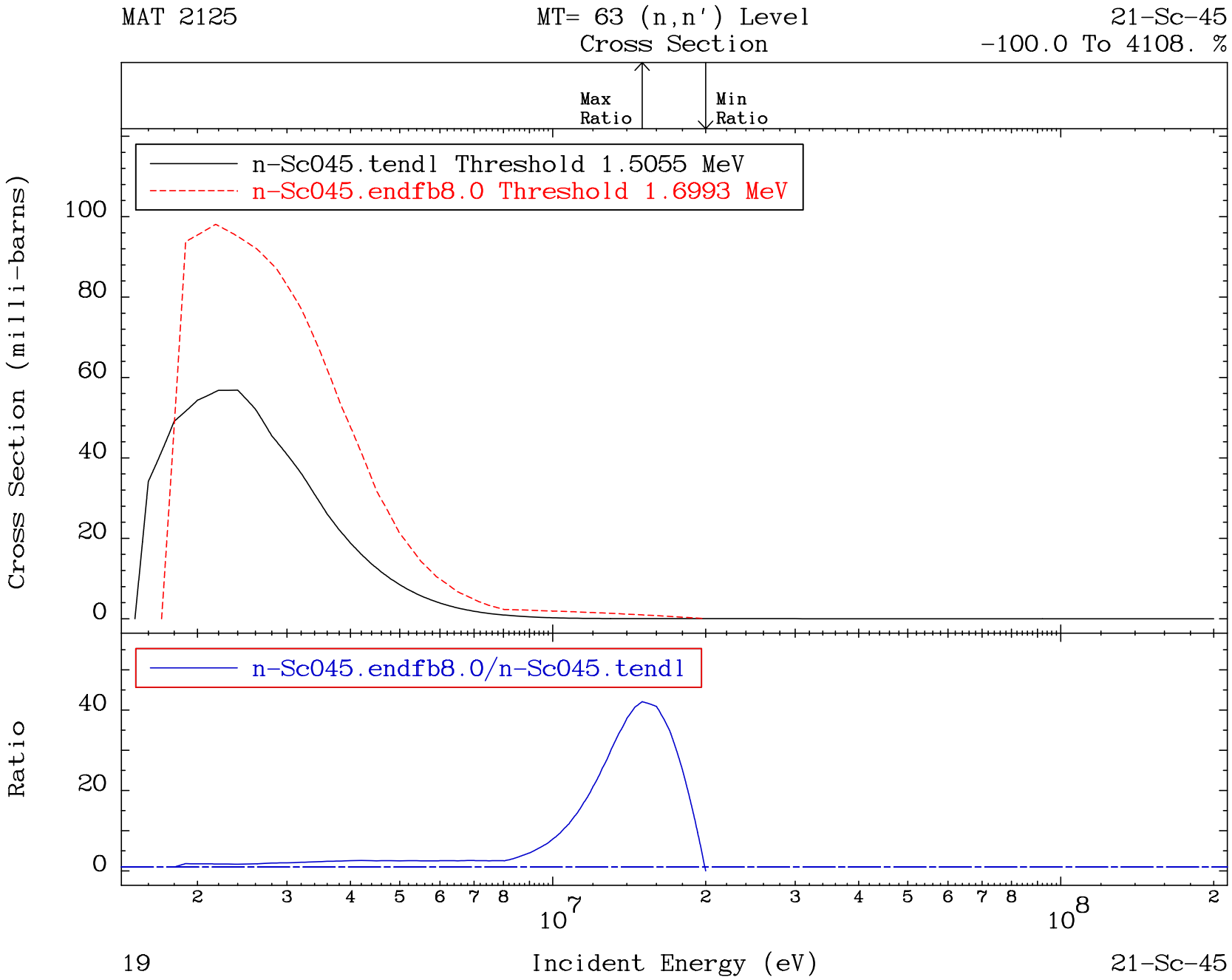

MAT 2125
MT= 58 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 788.2 %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 1.2645 MeV
n-Sc045.endfb8.0 Threshold 1.2658 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
21-Sc-45

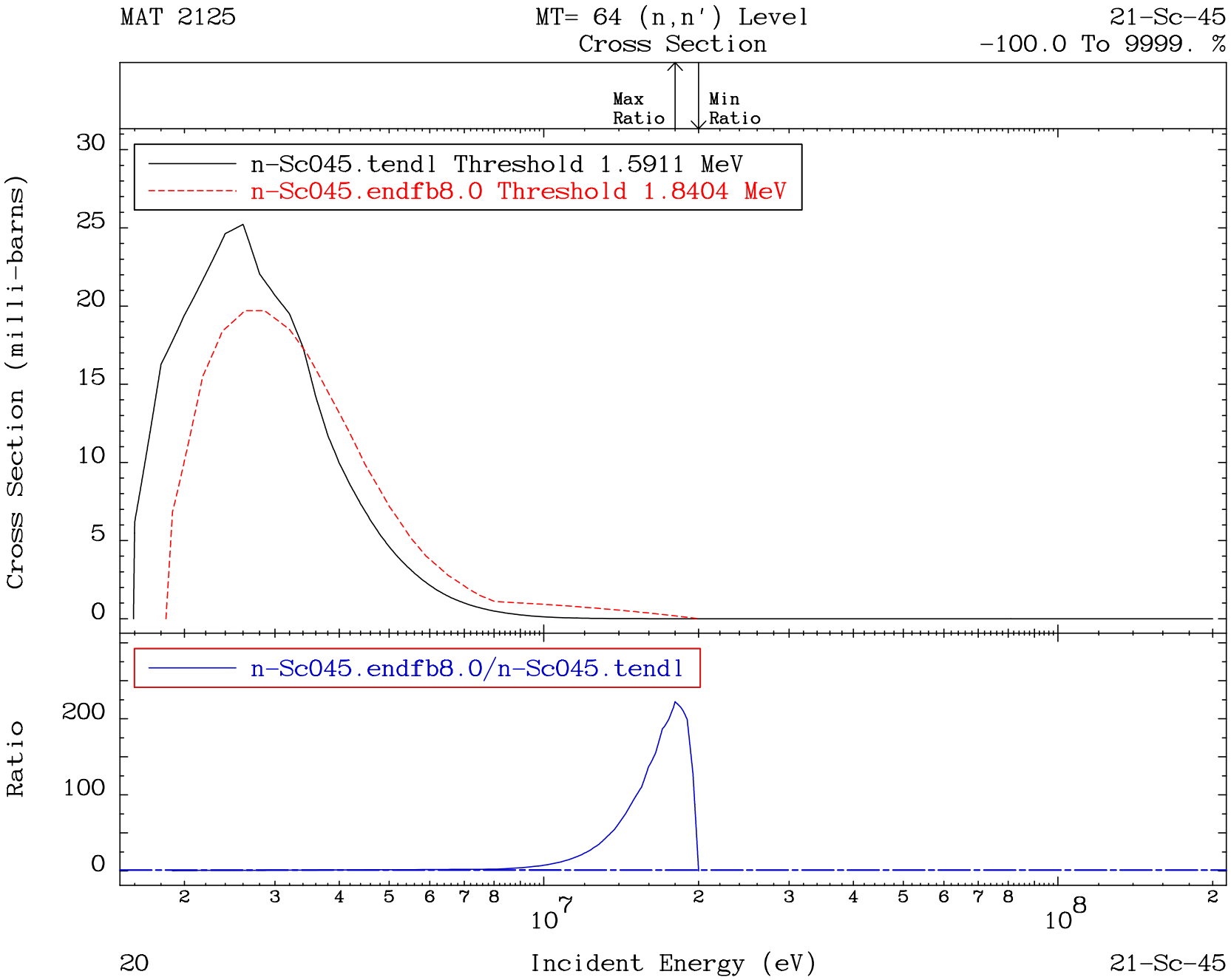

MAT 2125
MT= 59 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -41.75%
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 1.3324 MeV
n-Sc045.endfb8.0 Threshold 1.3322 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
0.6
0.4
0.2
0.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
21-Sc-45

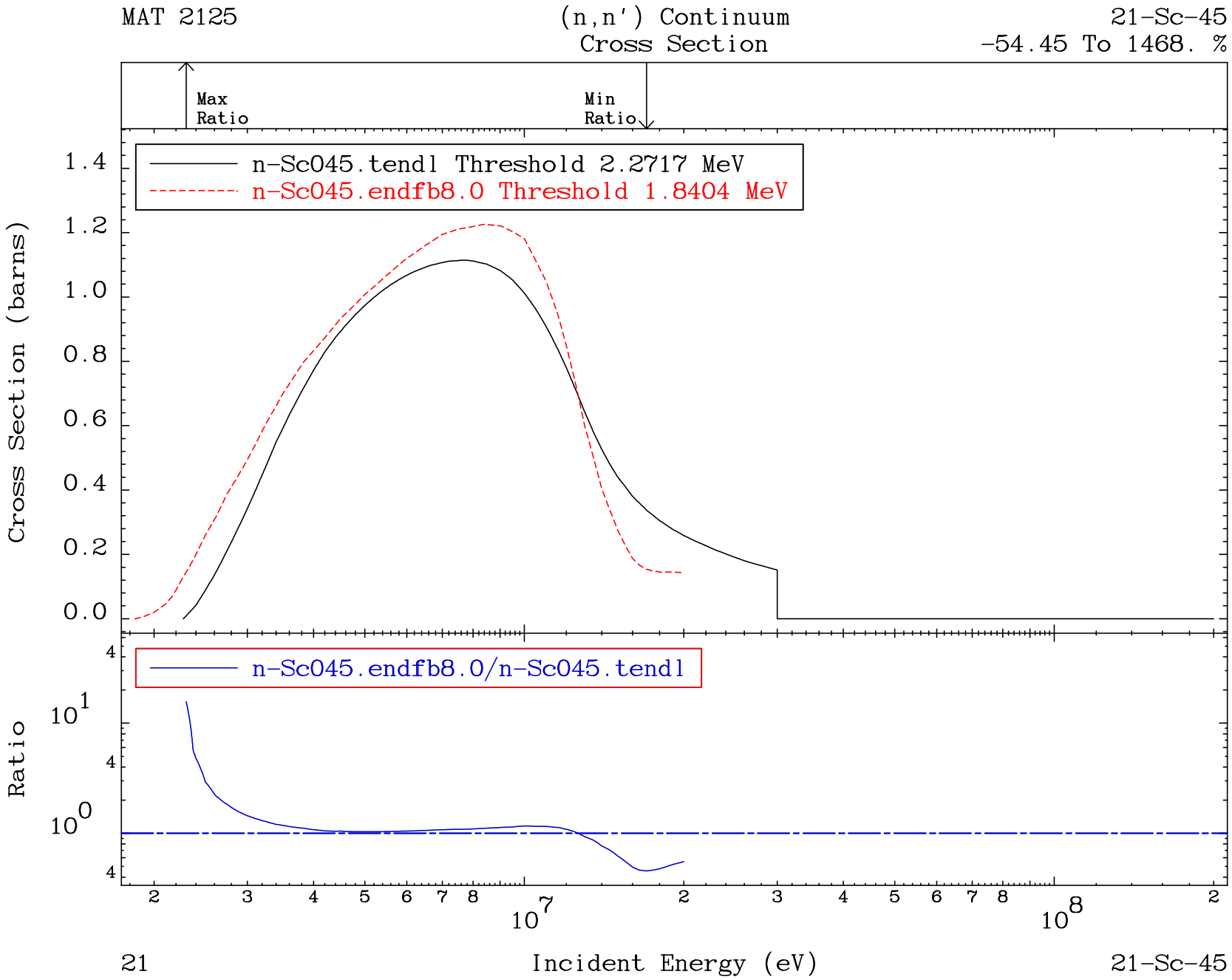

MAT 2125
MT= 60 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -47.57%
Max
Ratio
Min
Ratio
n-Sc045.tendl Threshold 1.3846 MeV
n-Sc045.endfb8.0 Threshold 1.4406 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
21-Sc-45

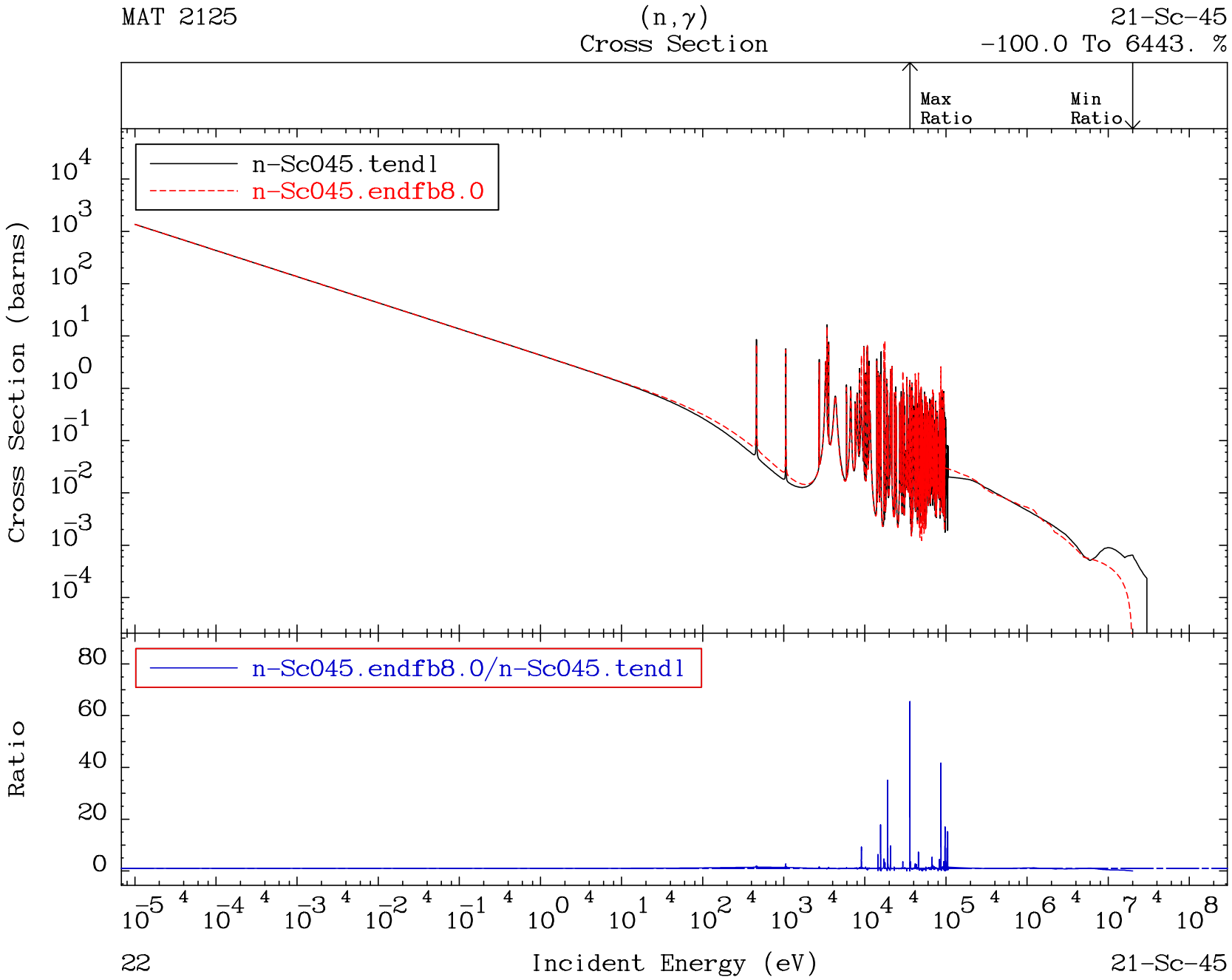

MAT 2125
MT= 61 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -37.55%
Max
Ratio
Min
Ratio
n-Sc045.tendl Threshold 1.4405 MeV
n-Sc045.endfb8.0 Threshold 1.4662 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
0.8
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
21-Sc-45

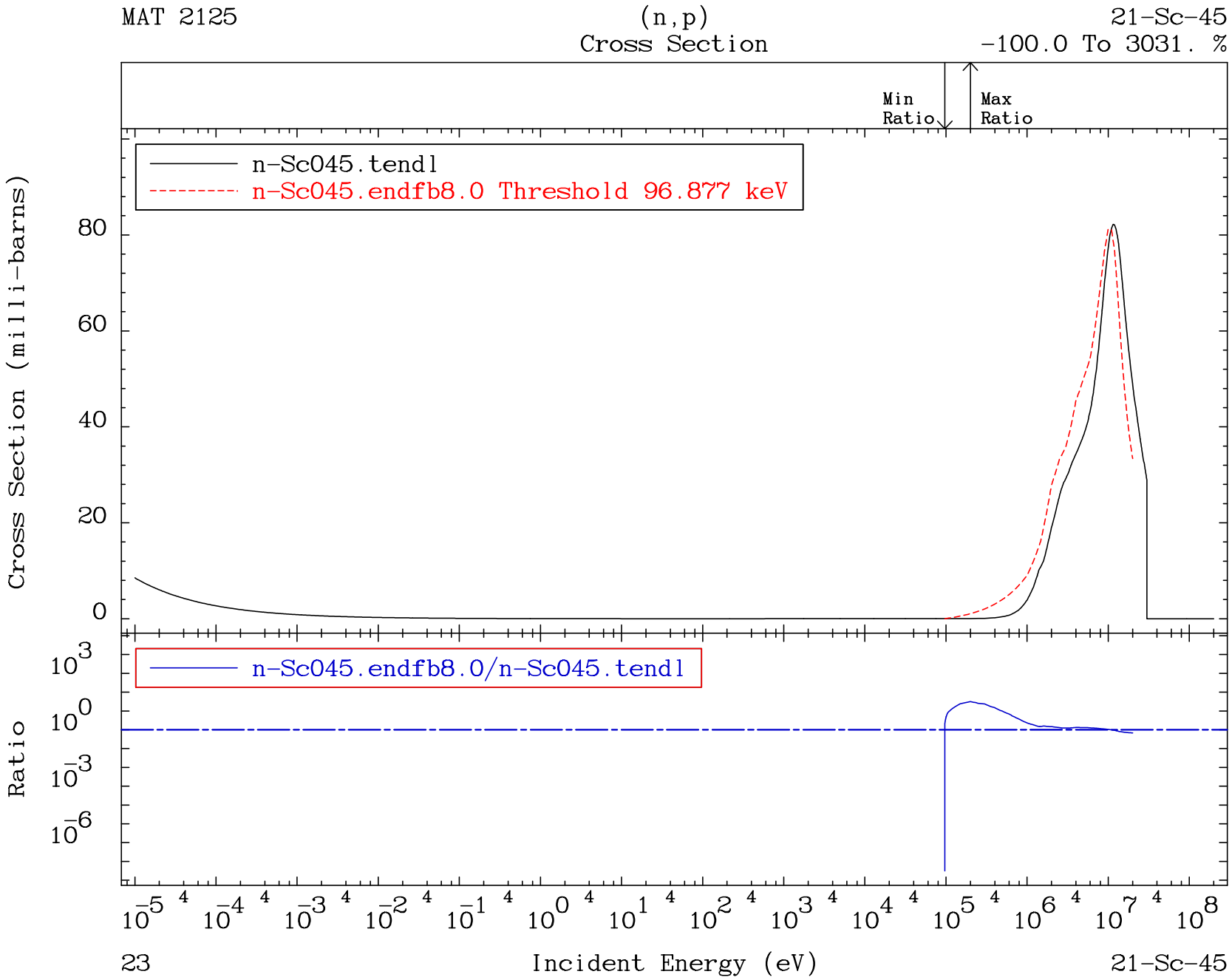

MAT 2125
MT= 62 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -64.41%
Max
Ratio
Min
Ratio
n-Sc045.tendl Threshold 1.4657 MeV
n-Sc045.endfb8.0 Threshold 1.5910 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
0.4
0.2
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
21-Sc-45

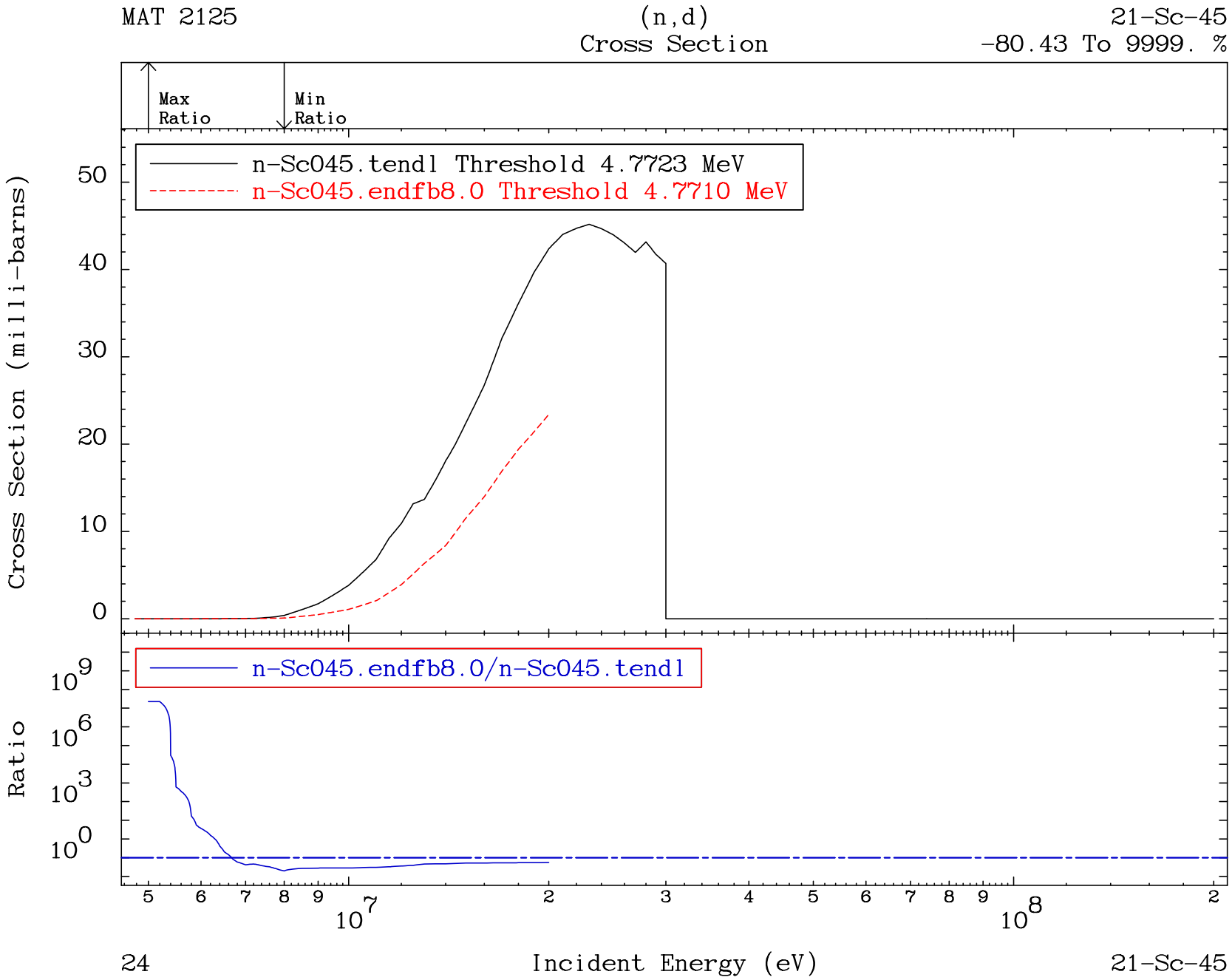

MAT 2125
MT= 63 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 4108. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 1.5055 MeV
n-Sc045.endfb8.0 Threshold 1.6993 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
21-Sc-45

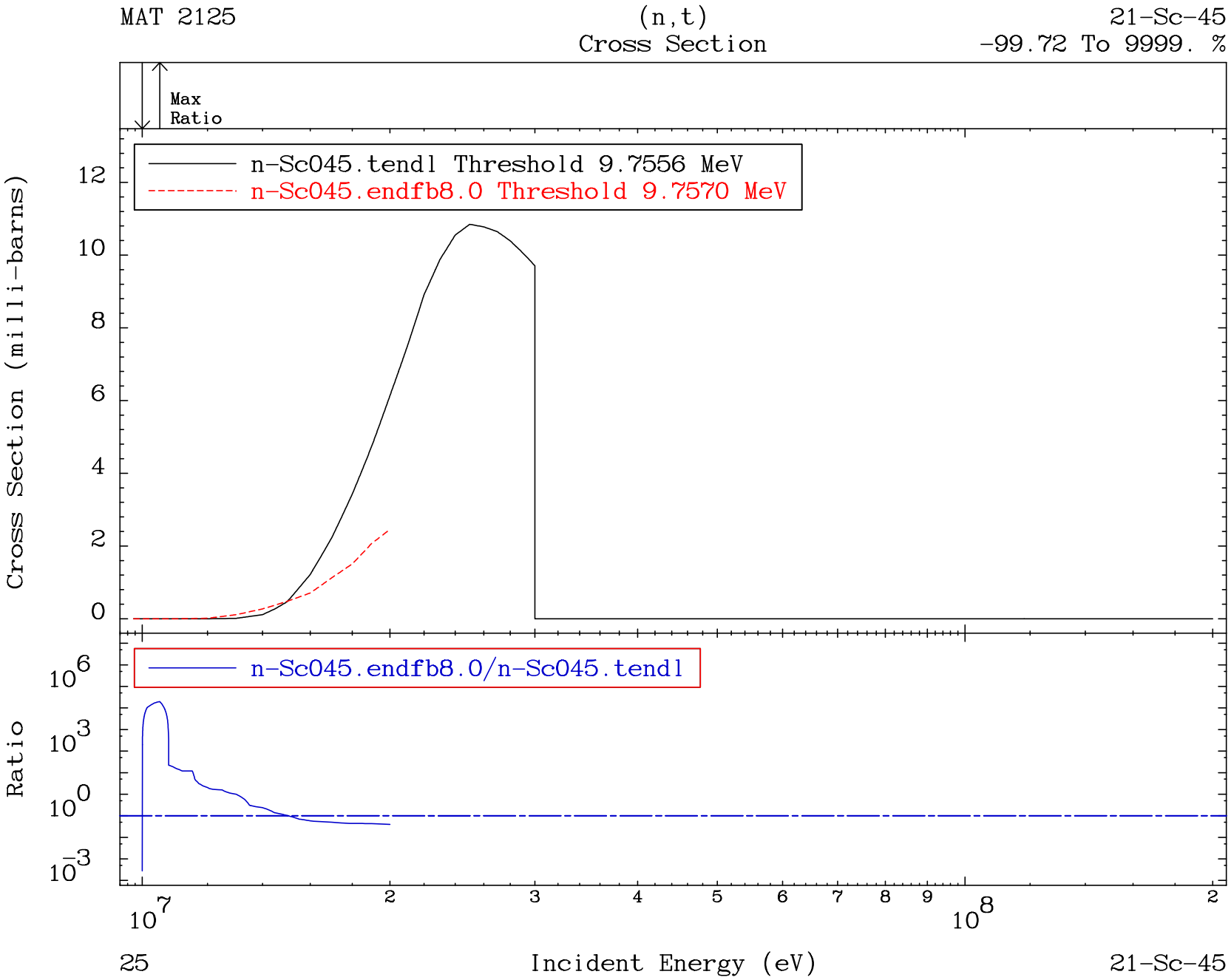

MAT 2125
MT= 64 (n,n') Level
Cross Section
21-Sc-45
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 1.5911 MeV
n-Sc045.endfb8.0 Threshold 1.8404 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
200
100
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
21-Sc-45

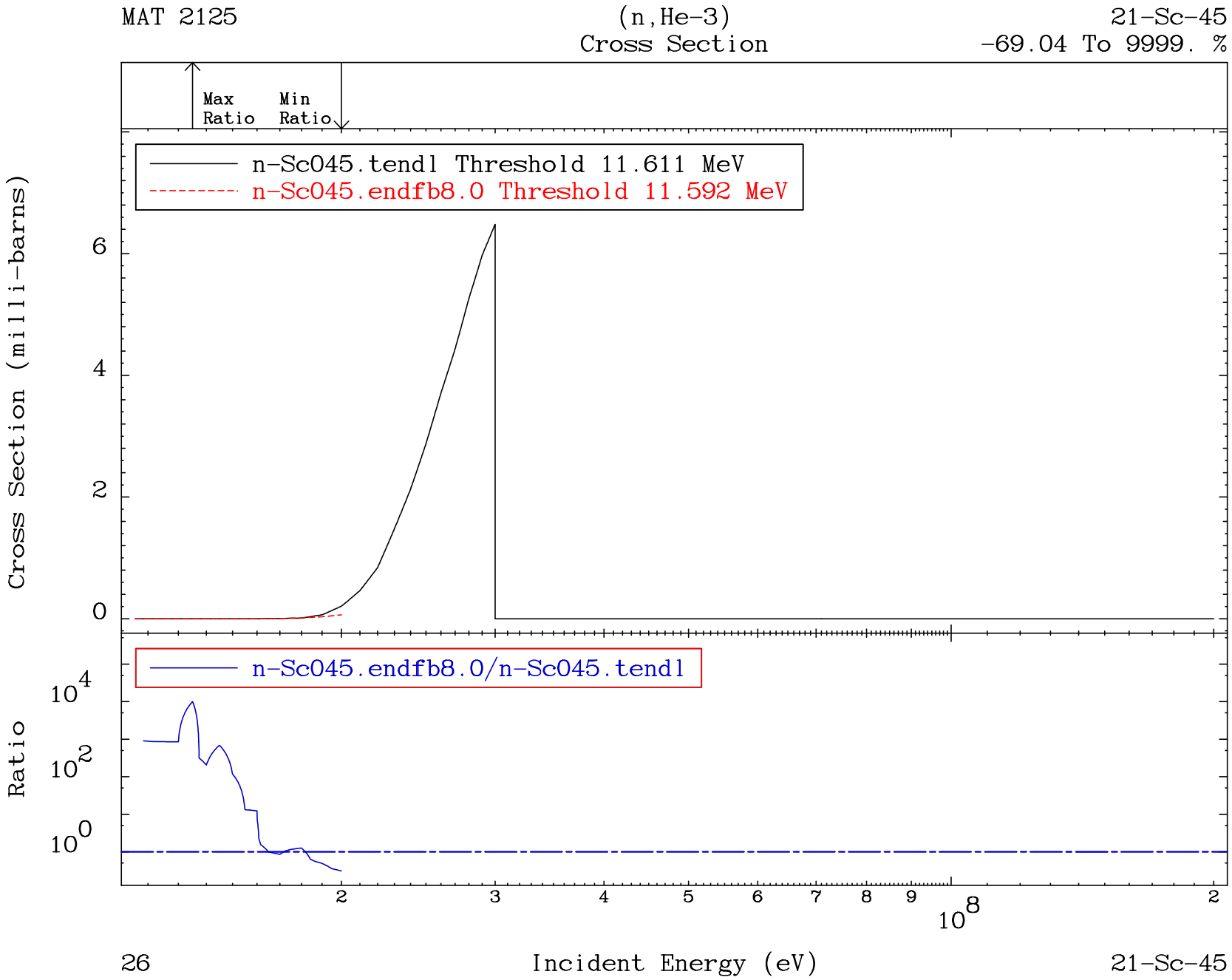

MAT 2125
(n,n') Continuum
Cross Section
21-Sc-45
-54.45 To 1468. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 2.2717 MeV
n-Sc045.endfb8.0 Threshold 1.8404 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
21-Sc-45

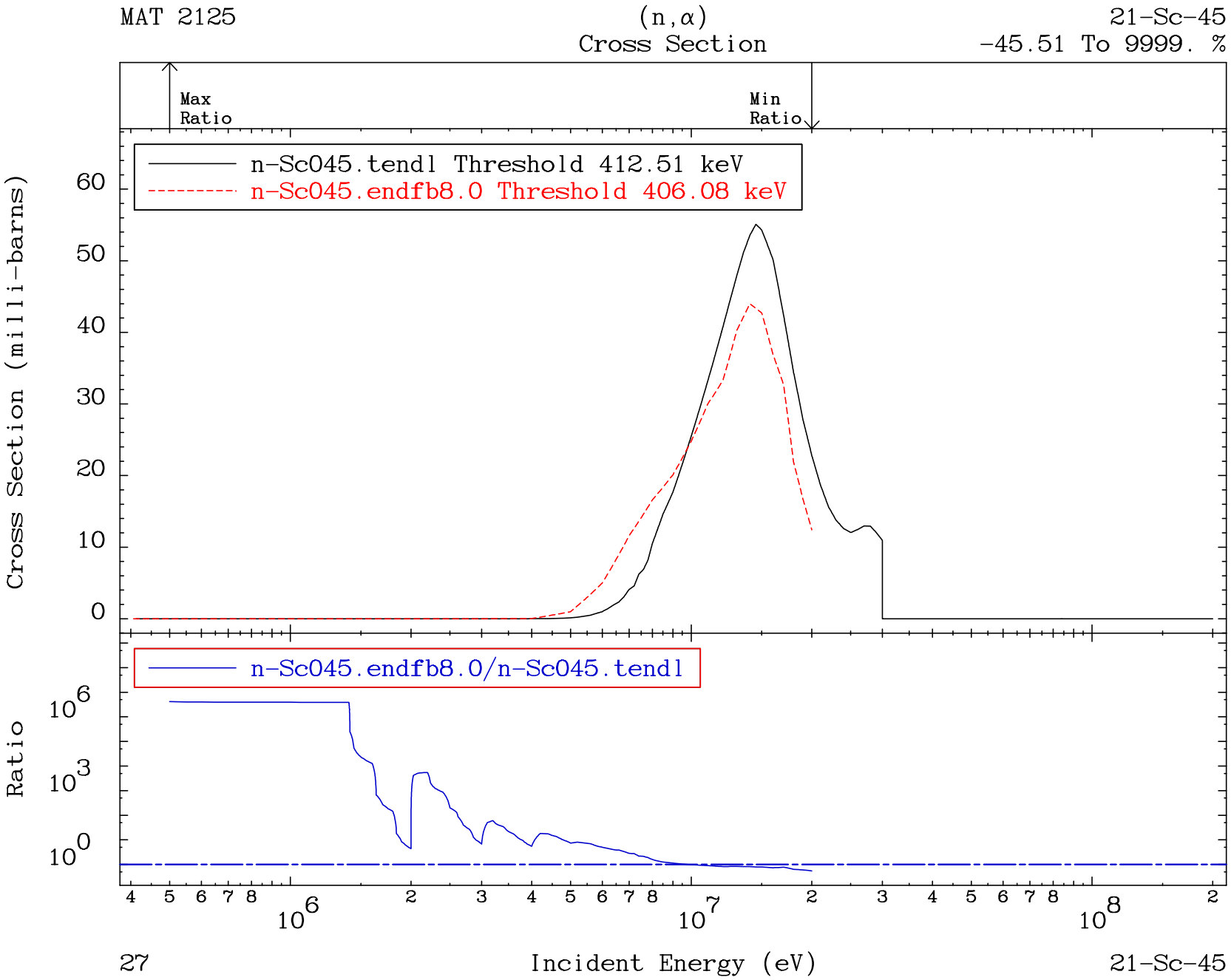

MAT 2125
(n,γ)
Cross Section
21-Sc-45
-100.0 To 6443. %
Max Ratio
Min Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
22
21-Sc-45

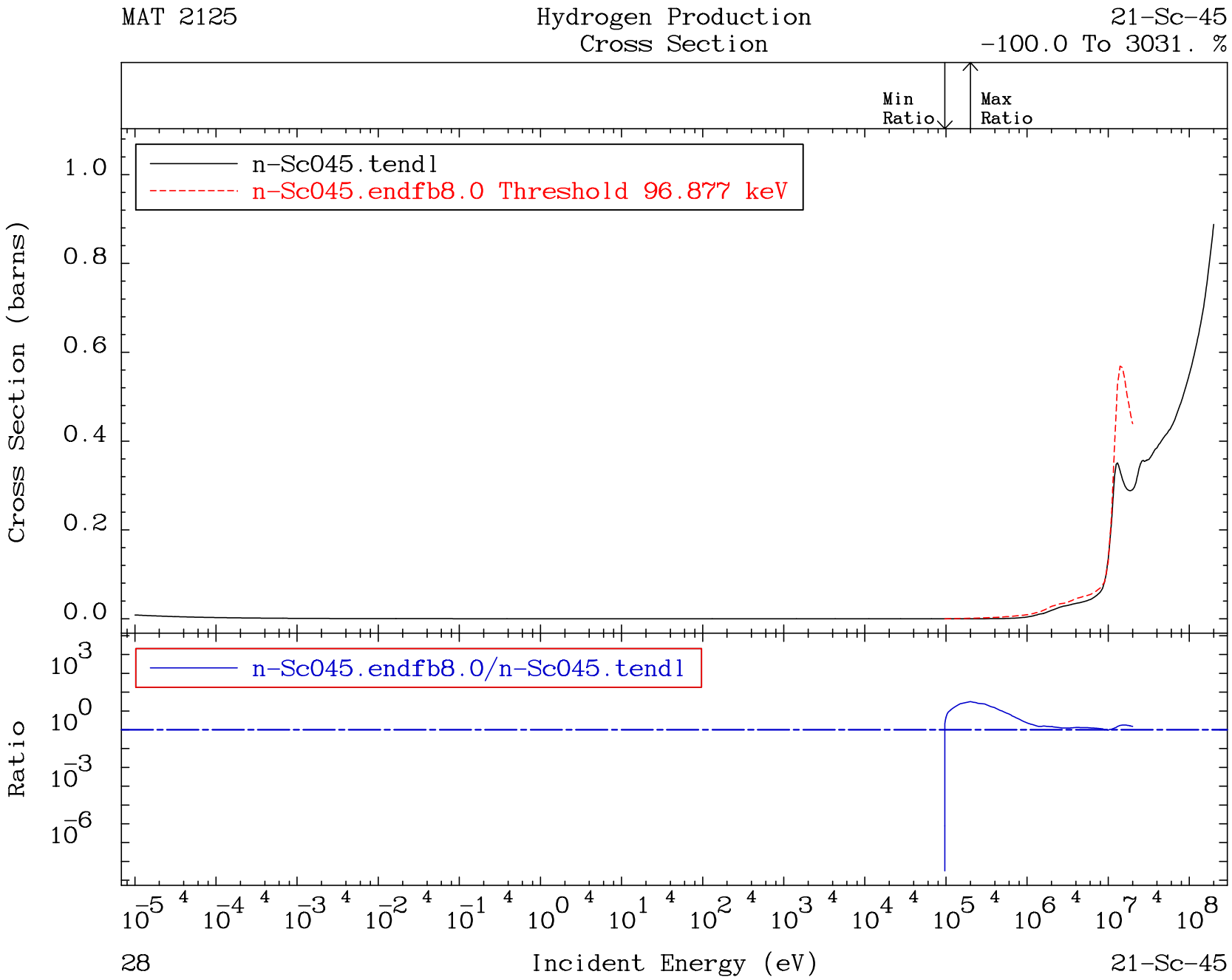

MAT 2125
(n,p)
Cross Section
21-Sc-45
-100.0 To 3031. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0 Threshold 96.877 keV
Cross Section (milli-barns)
0
20
40
60
80
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^3
10^0
10^-3
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
23
Incident Energy (eV)
21-Sc-45

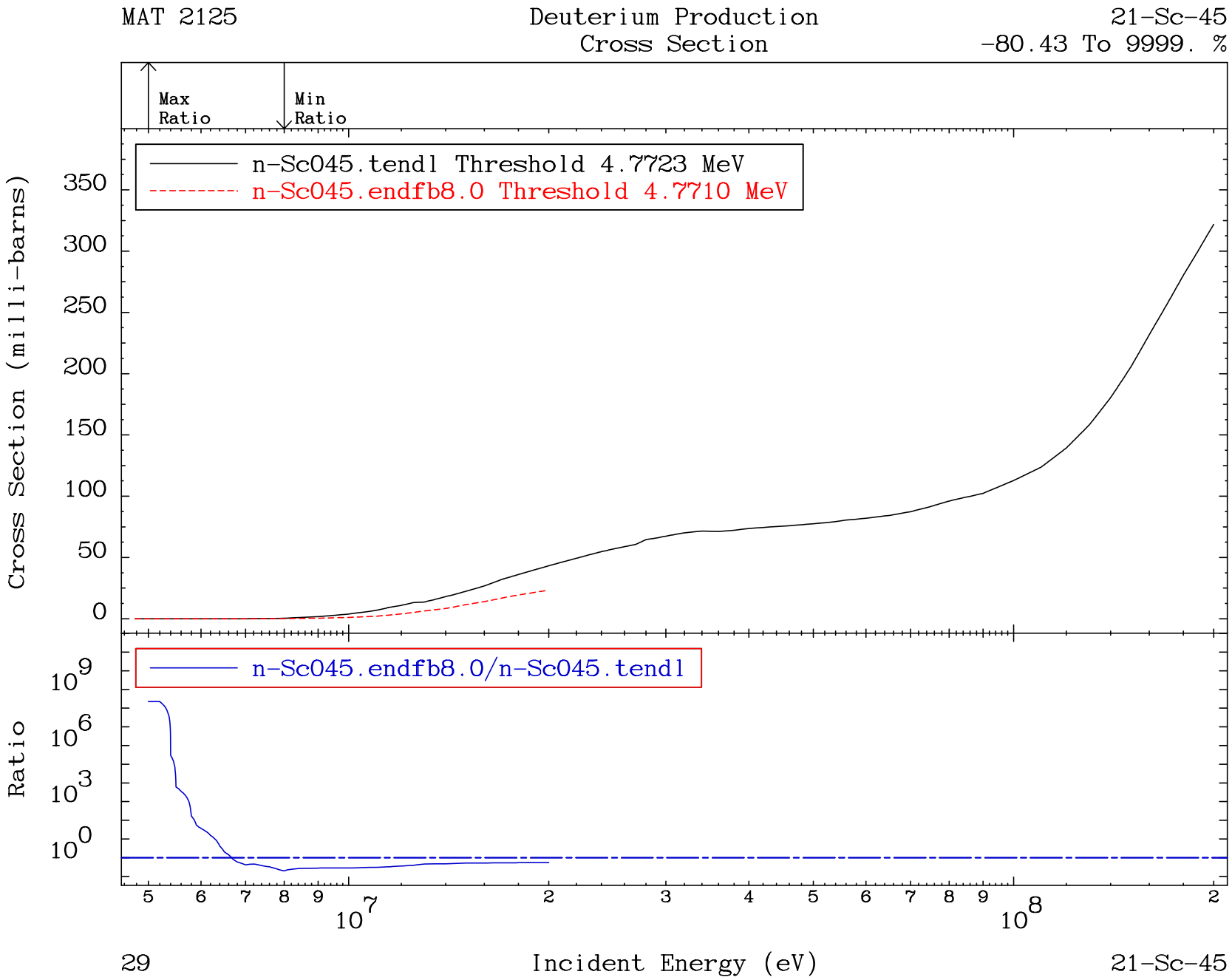

MAT 2125
(n,d)
Cross Section
21-Sc-45
-80.43 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 4.7723 MeV
n-Sc045.endfb8.0 Threshold 4.7710 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^9
10^6
10^3
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
21-Sc-45

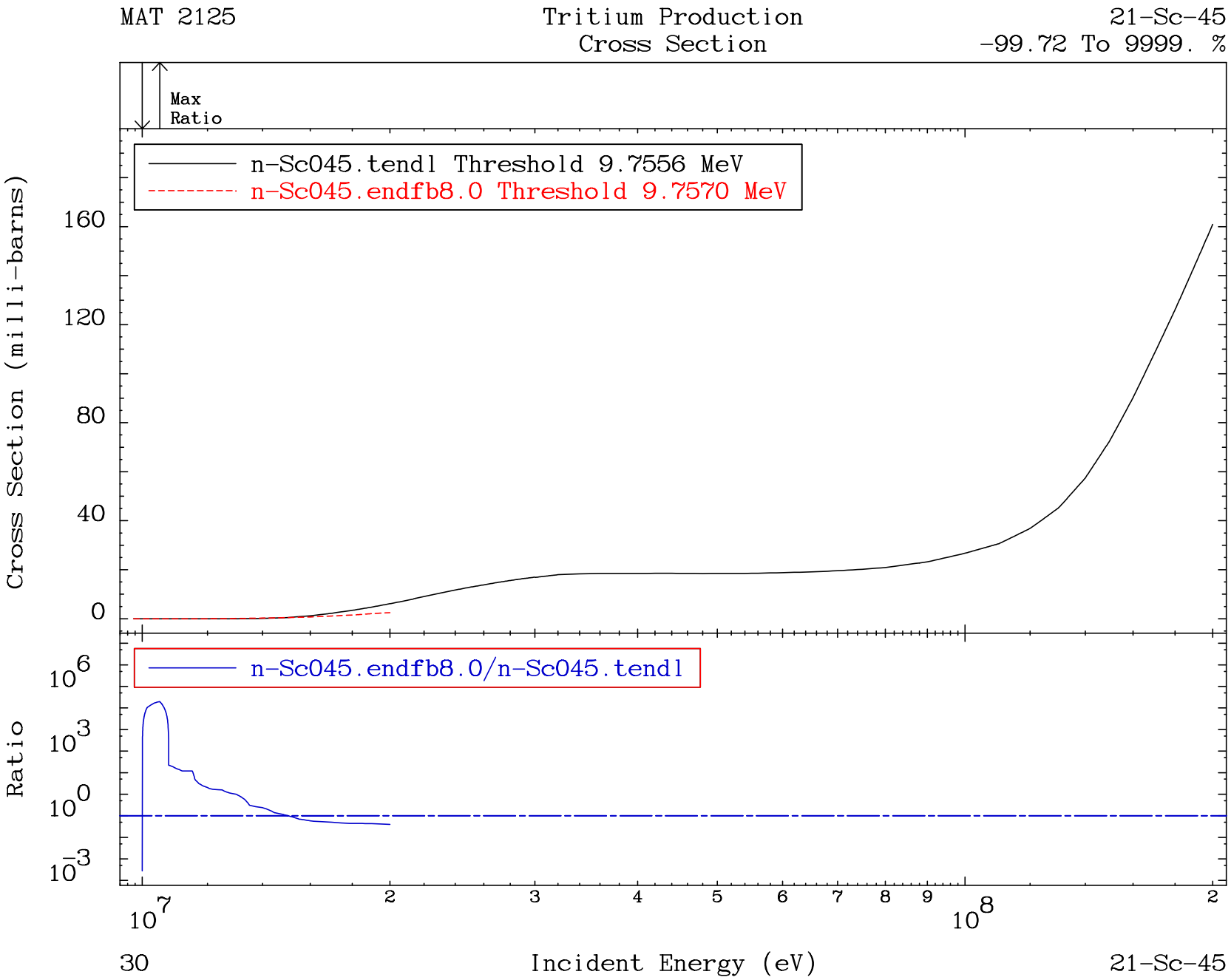

MAT 2125
(n,t)
Cross Section
21-Sc-45
-99.72 To 9999. %
Max
Ratio
n-Sc045.tendl Threshold 9.7556 MeV
n-Sc045.endfb8.0 Threshold 9.7570 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^6
10^3
10^0
10^-3
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
21-Sc-45

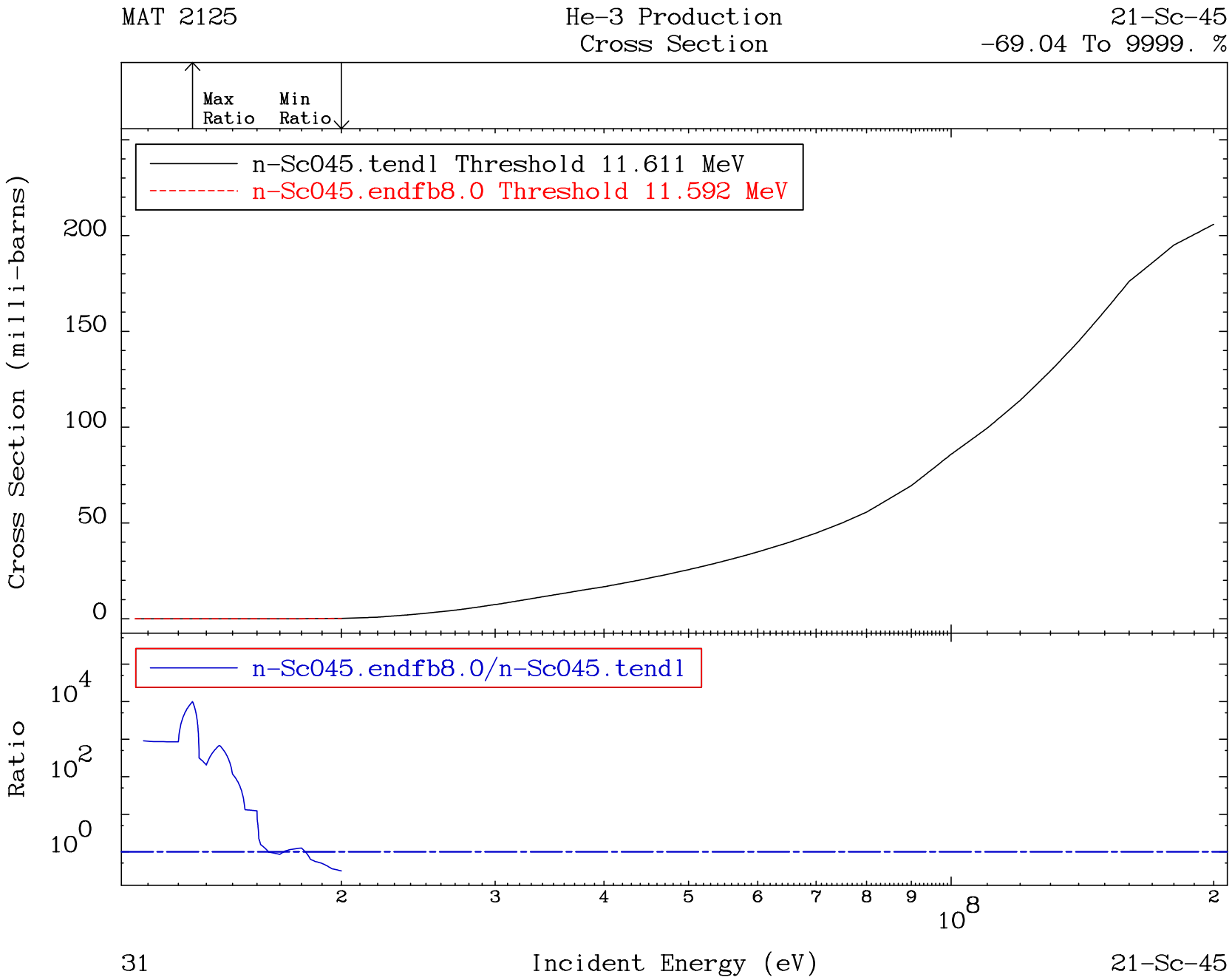

MAT 2125
(n,He-3)
Cross Section
21-Sc-45
-69.04 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 11.611 MeV
n-Sc045.endfb8.0 Threshold 11.592 MeV
Cross Section (milli-barns)
0
2
4
6
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
21-Sc-45

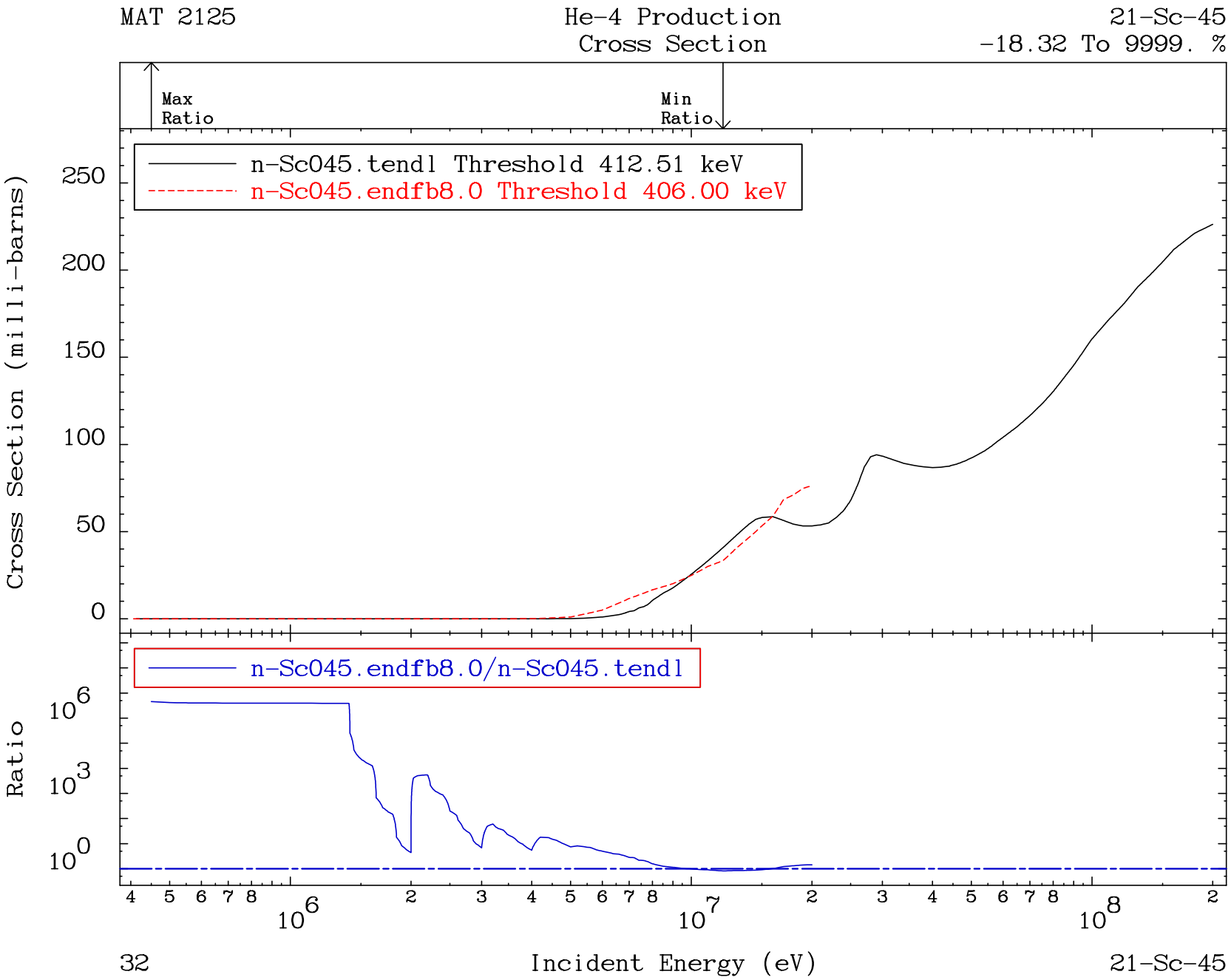

MAT 2125
(n,α)
Cross Section
21-Sc-45
-45.51 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 412.51 keV
n-Sc045.endfb8.0 Threshold 406.08 keV
Cross Section (milli-barns)
0
10
20
30
40
50
60
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^6
10^3
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
21-Sc-45

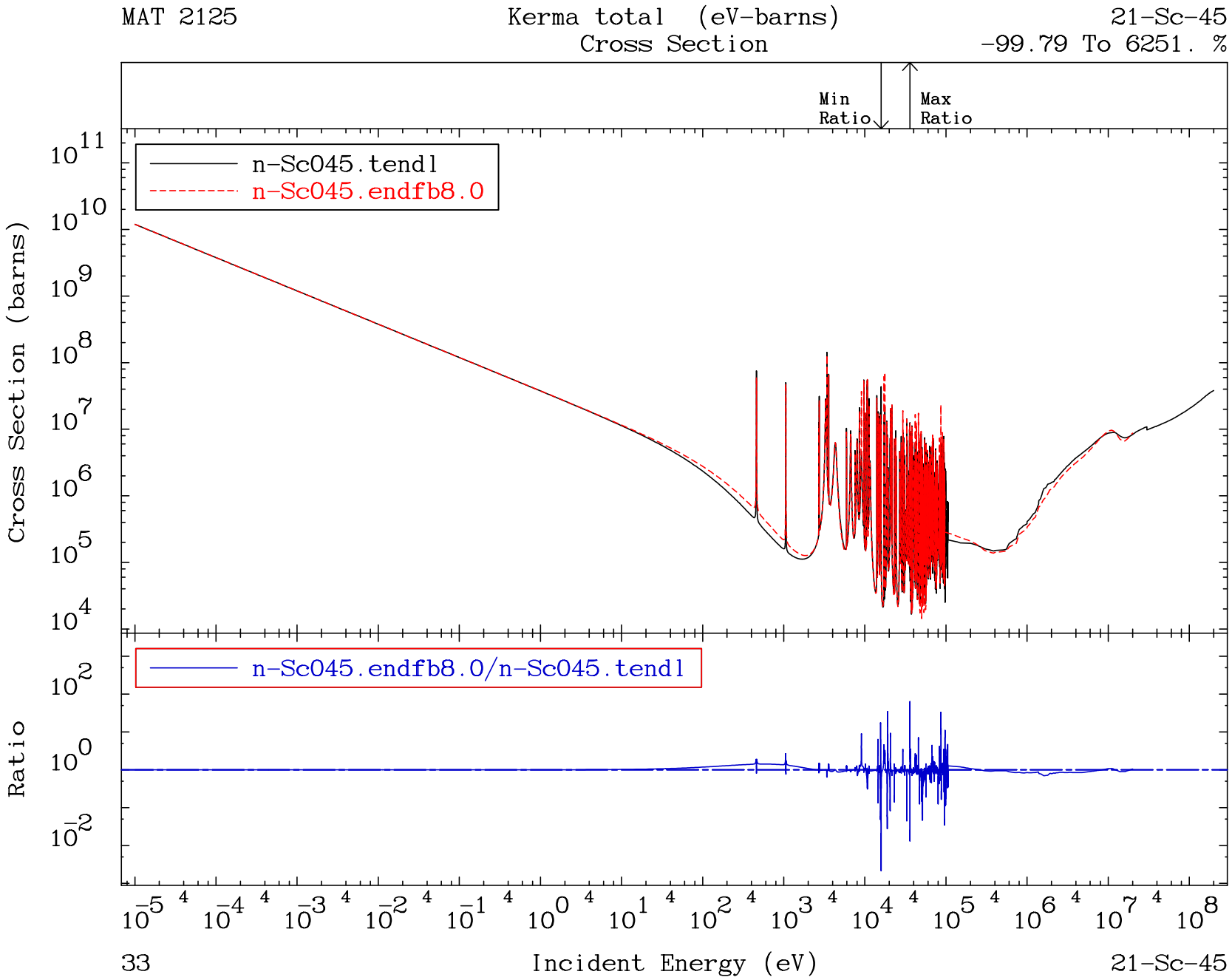

MAT 2125
Hydrogen Production
Cross Section
21-Sc-45
-100.0 To 3031. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0 Threshold 96.877 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^3
10^0
10^-3
10^-6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
21-Sc-45

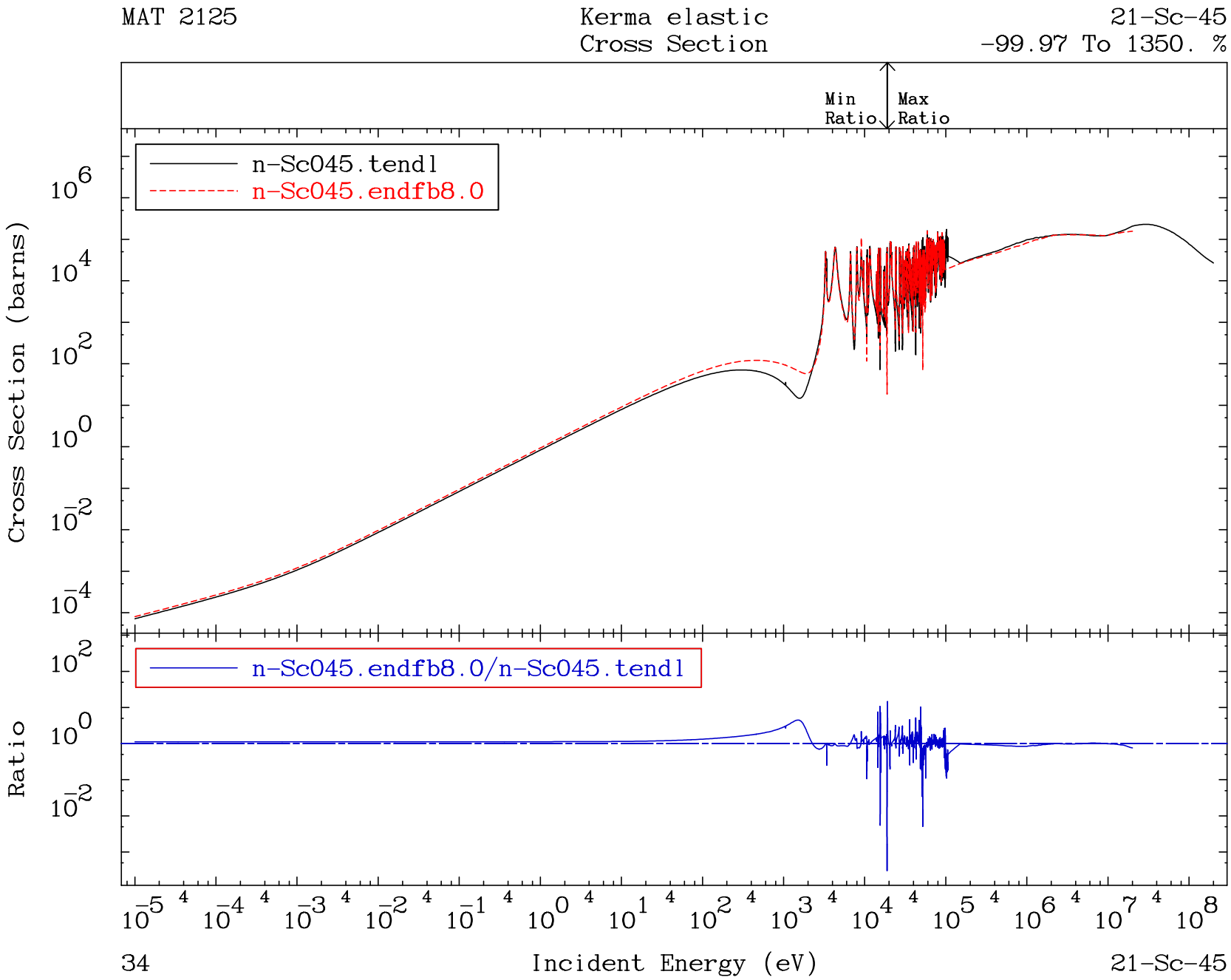

MAT 2125
Deuterium Production
Cross Section
21-Sc-45
-80.43 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 4.7723 MeV
n-Sc045.endfb8.0 Threshold 4.7710 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^9
10^6
10^3
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
21-Sc-45

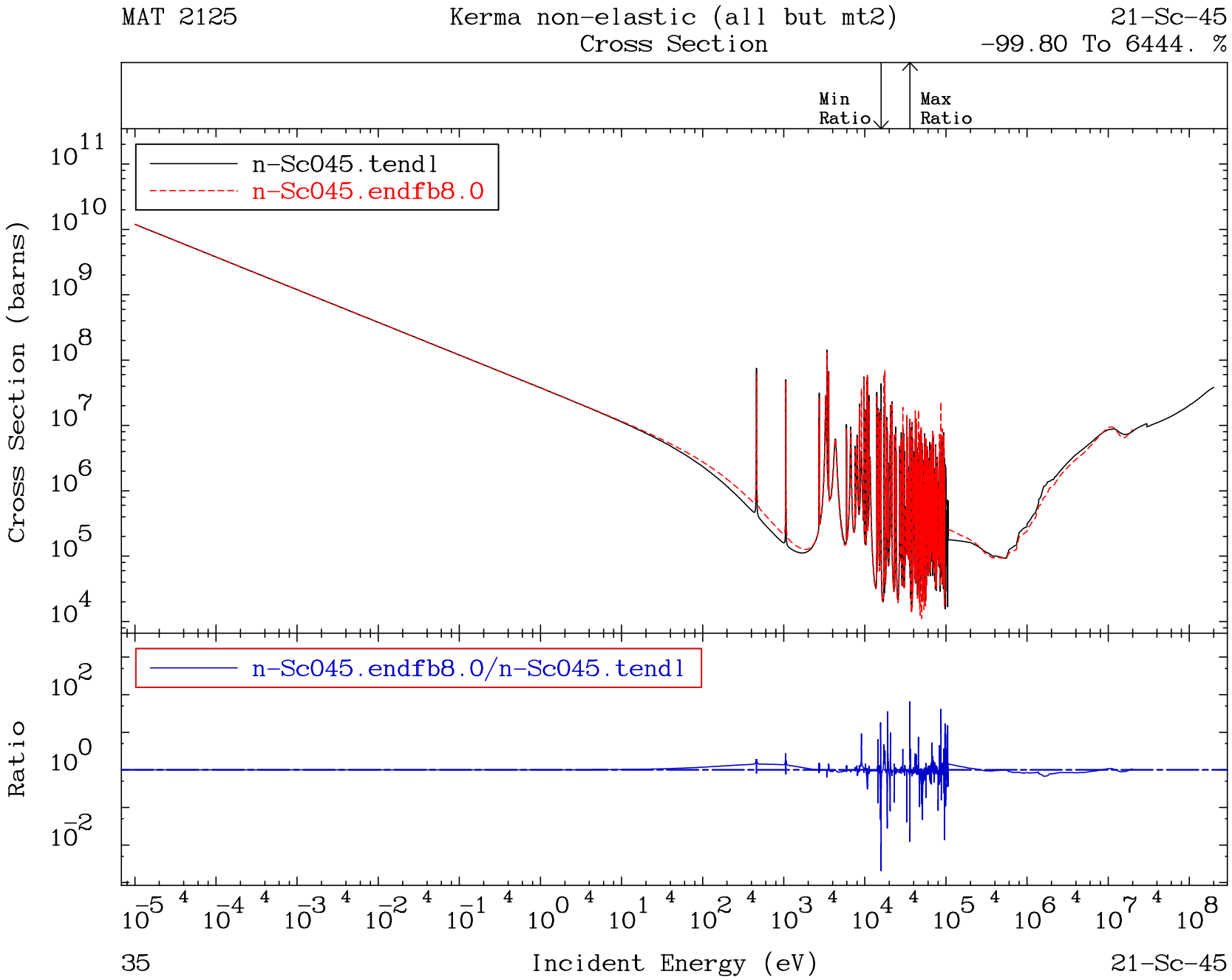

MAT 2125
Tritium Production
Cross Section
21-Sc-45
-99.72 To 9999. %
Max
Ratio
n-Sc045.tendl Threshold 9.7556 MeV
n-Sc045.endfb8.0 Threshold 9.7570 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^6
10^3
10^0
10^-3
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
21-Sc-45

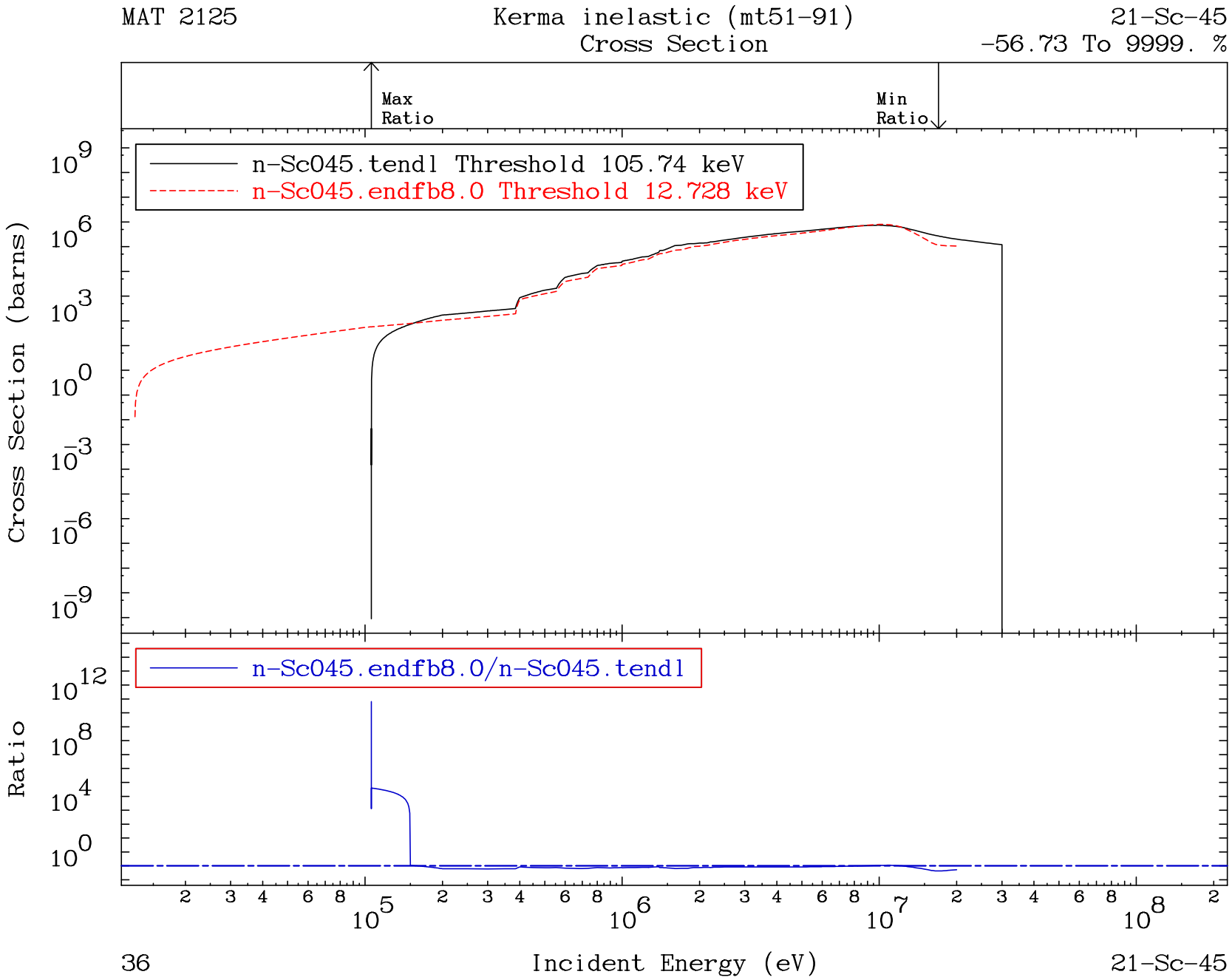

MAT 2125
He-3 Production
Cross Section
21-Sc-45
-69.04 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 11.611 MeV
n-Sc045.endfb8.0 Threshold 11.592 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
21-Sc-45

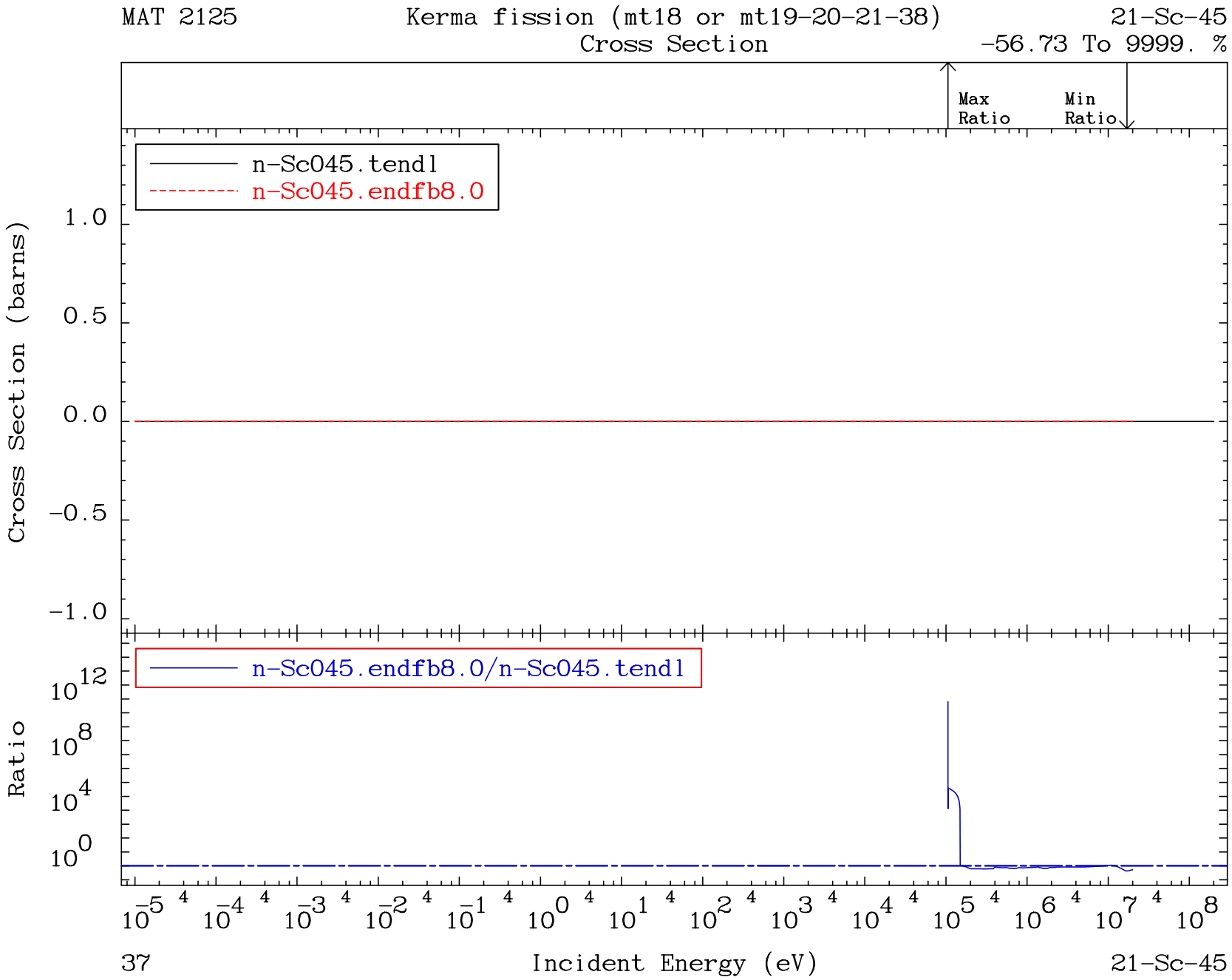

MAT 2125
He-4 Production
Cross Section
21-Sc-45
-18.32 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 412.51 keV
n-Sc045.endfb8.0 Threshold 406.00 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^6
10^3
10^0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
21-Sc-45

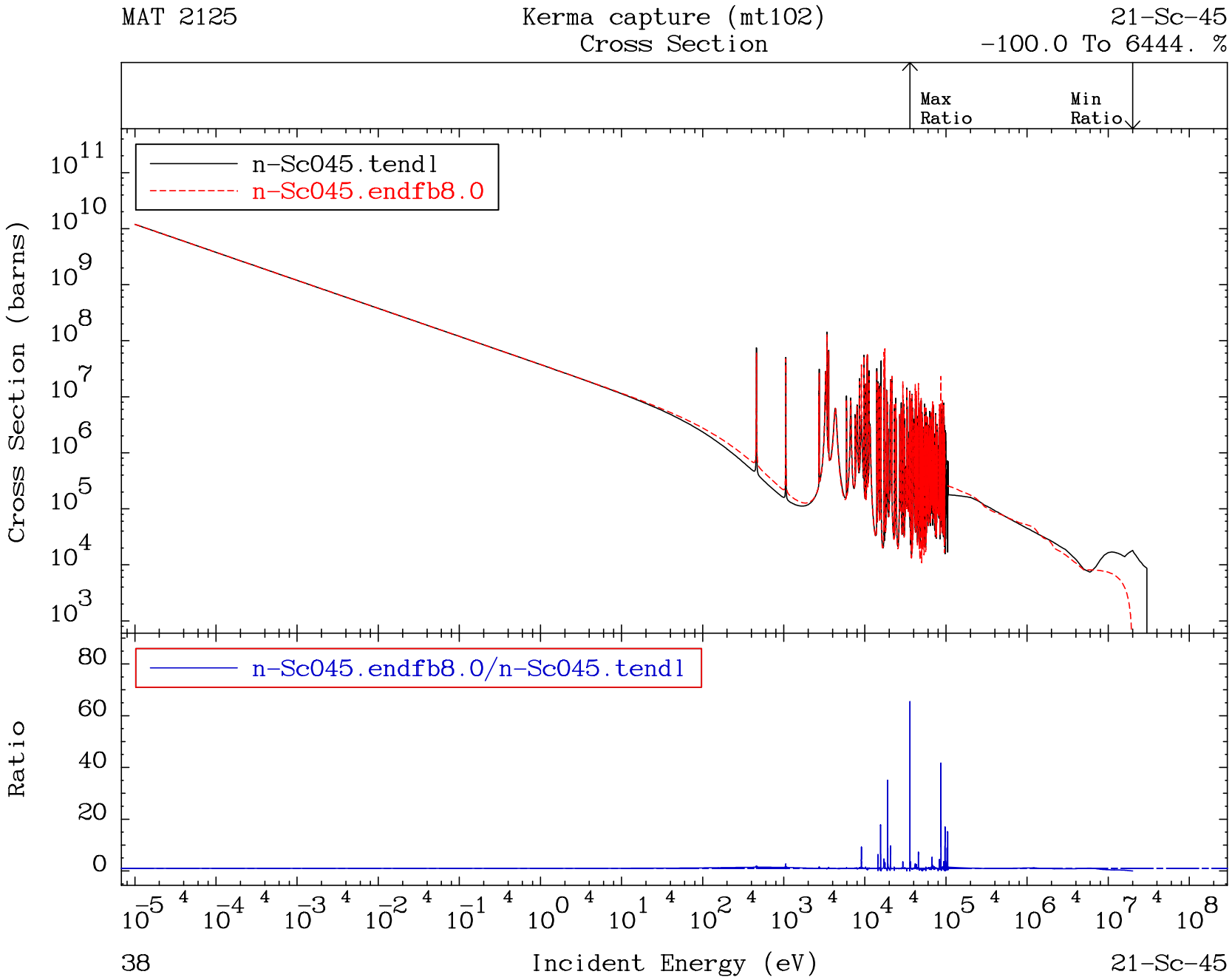

MAT 2125
Kerma total (eV-barns)
Cross Section
21-Sc-45
-99.79 To 6251. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
33
Incident Energy (eV)
21-Sc-45

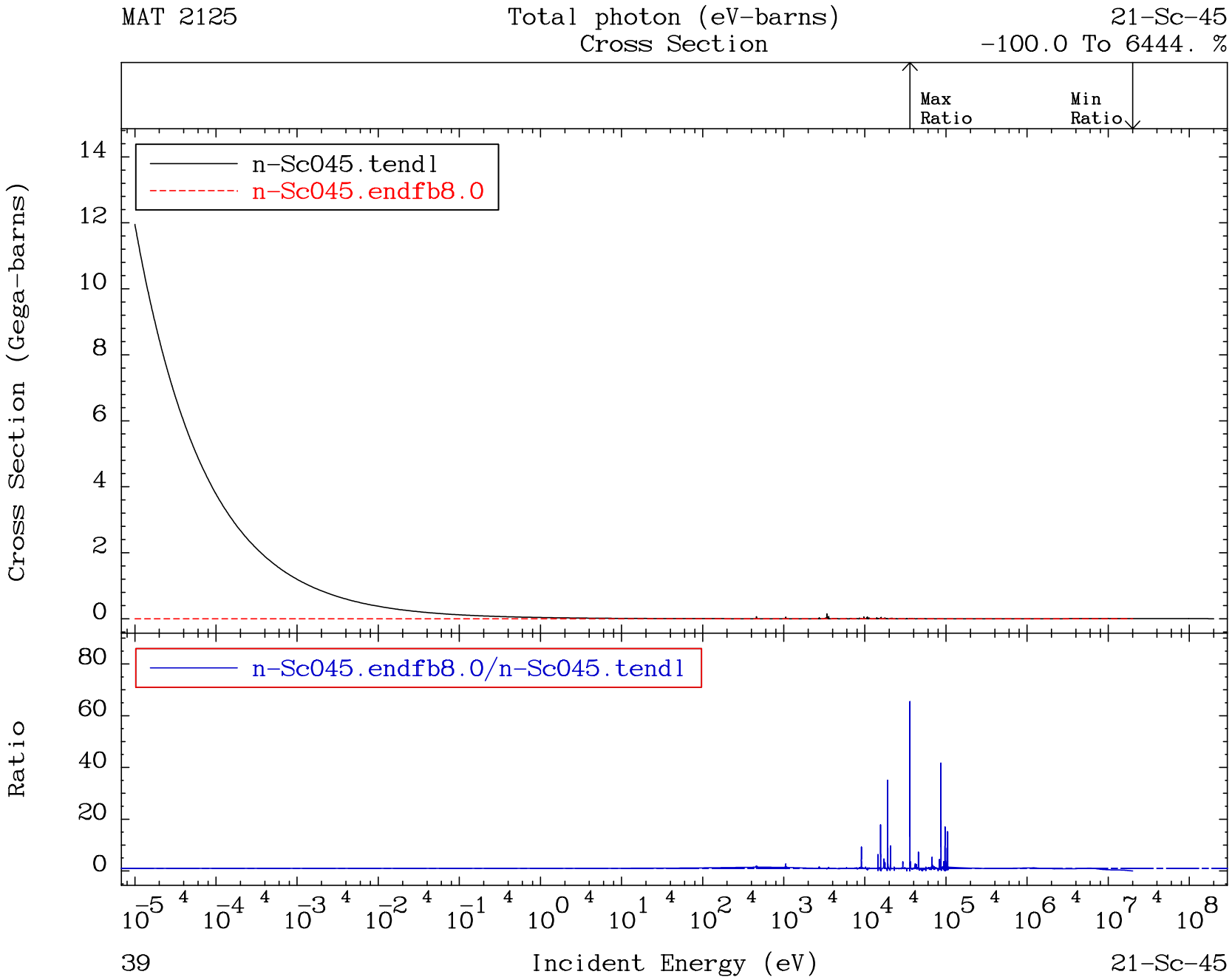

MAT 2125
Kerma elastic
Cross Section
21-Sc-45
-99.97 To 1350. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
34
21-Sc-45

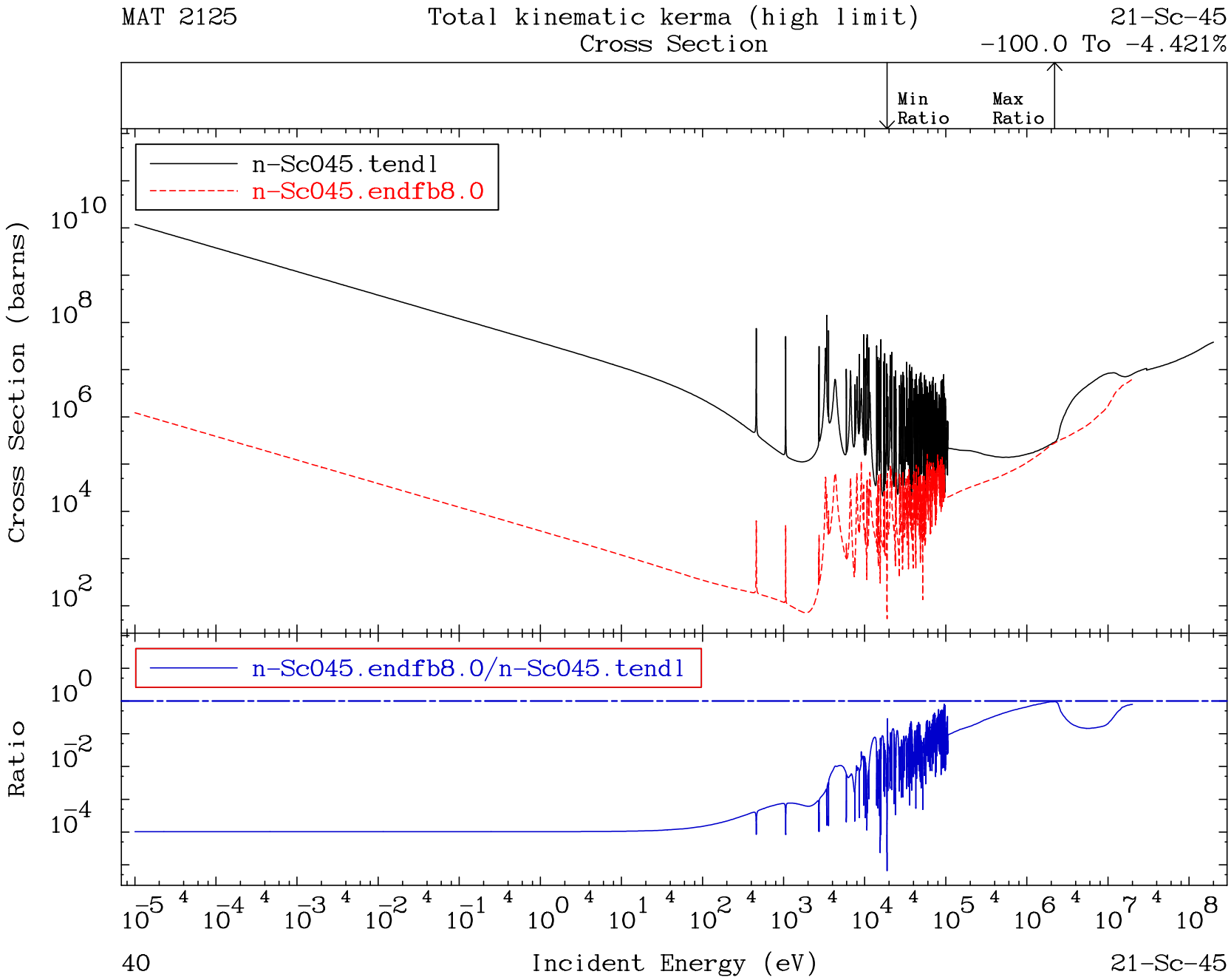

MAT 2125
Kerma non-elastic (all but mt2)
Cross Section
21-Sc-45
-99.80 To 6444. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
35
21-Sc-45

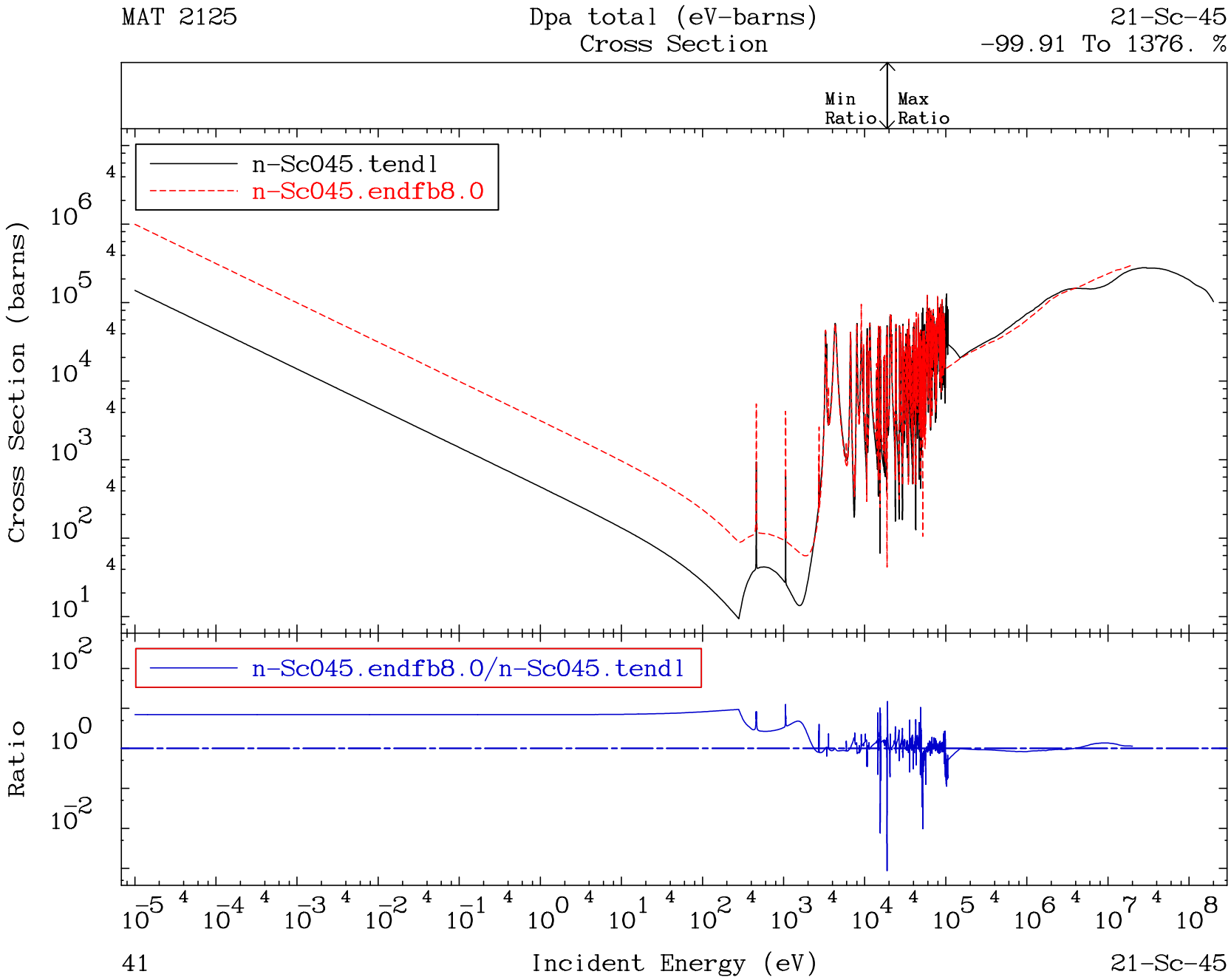

MAT 2125
Kerma inelastic (mt51-91)
Cross Section
21-Sc-45
-56.73 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 105.74 keV
n-Sc045.endfb8.0 Threshold 12.728 keV
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
36
21-Sc-45

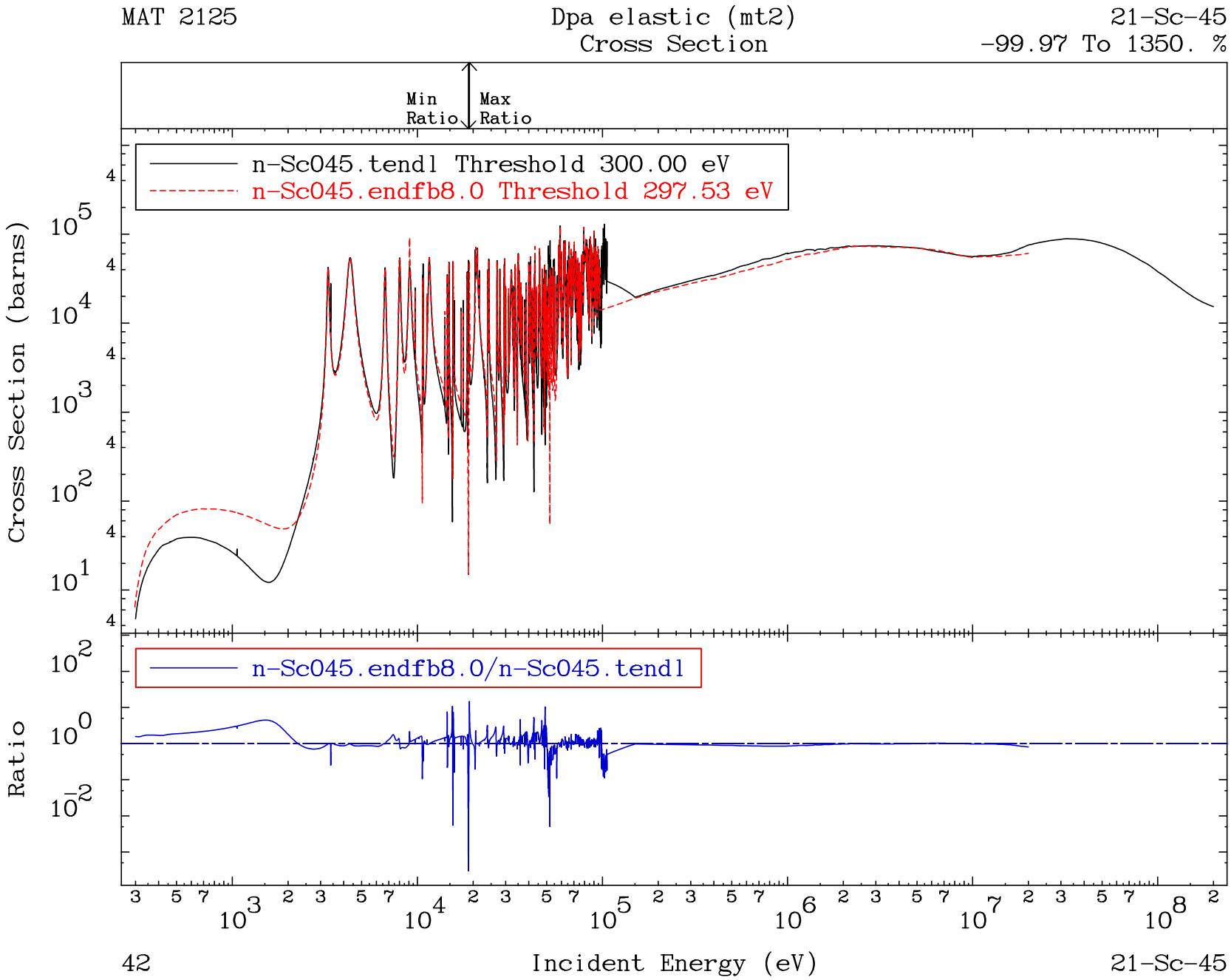

MAT 2125
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
21-Sc-45
-56.73 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
10^12
10^8
10^4
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
21-Sc-45

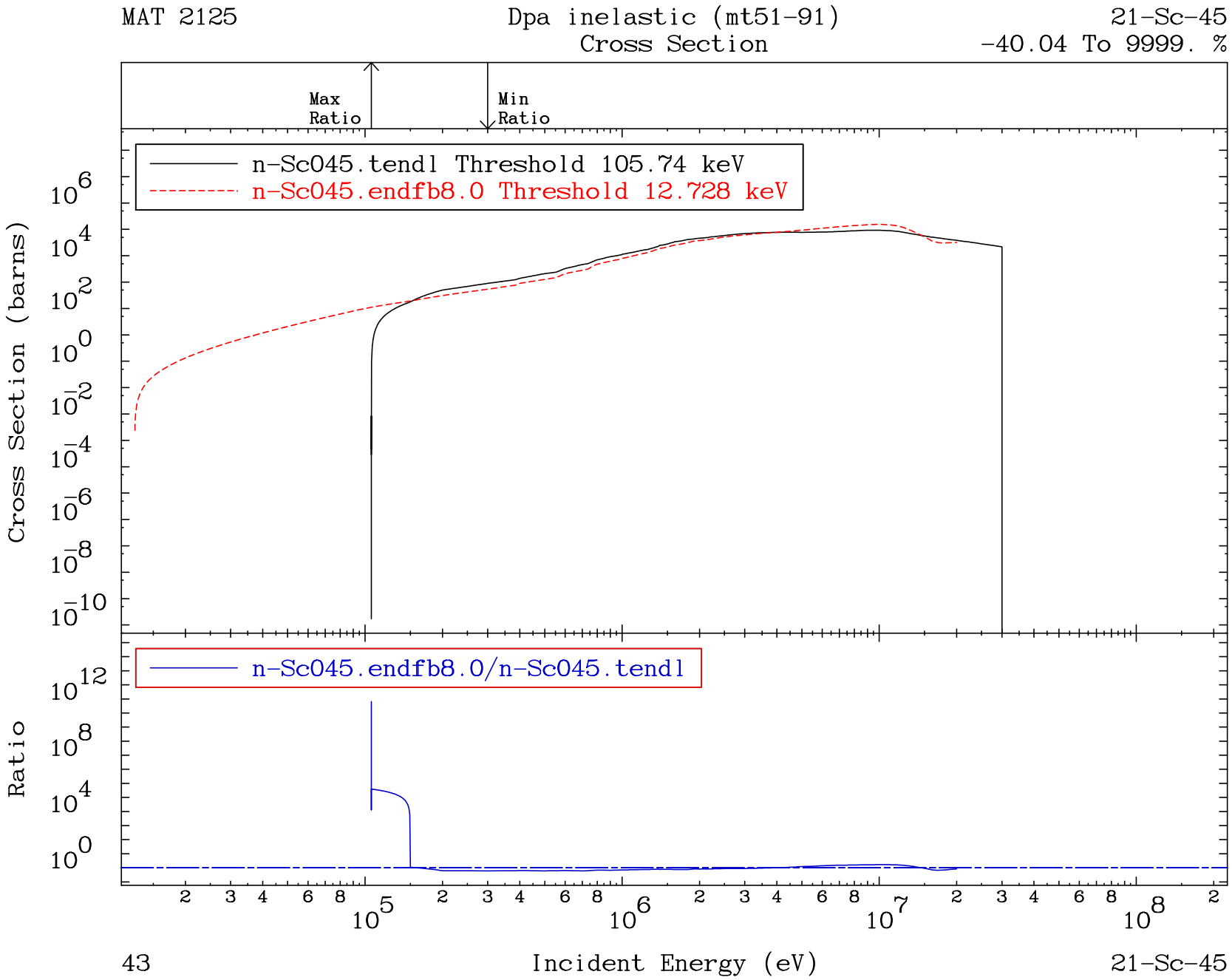

MAT 2125
Kerma capture (mt102)
Cross Section
21-Sc-45
-100.0 To 6444. %
Max Ratio
Min Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
38
Incident Energy (eV)
21-Sc-45

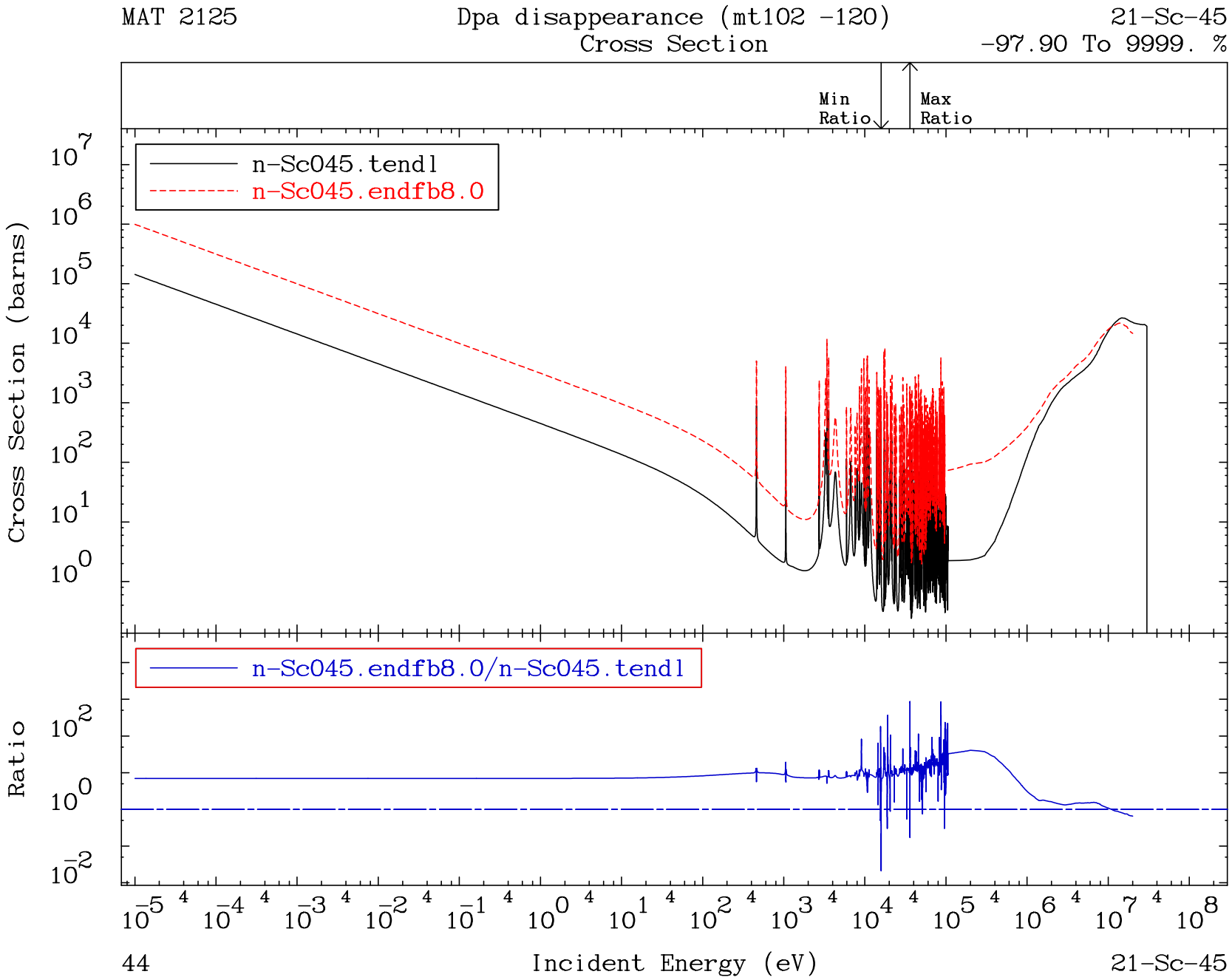

MAT 2125
Total photon (eV-barns)
Cross Section
21-Sc-45
-100.0 To 6444. %
Max Ratio
Min Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (Giga-barns)
14
12
10
8
6
4
2
0
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
80
60
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
21-Sc-45


MAT 2125
Total kinematic kerma (high limit)
Cross Section
21-Sc-45
-100.0 To -4.421%
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
40
21-Sc-45


MAT 2125
Dpa total (eV-barns)
Cross Section
21-Sc-45
-99.91 To 1376. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
41
Incident Energy (eV)
21-Sc-45


MAT 2125
Dpa elastic (mt2)
Cross Section
21-Sc-45
-99.97 To 1350. %
Min Ratio
Max Ratio
n-Sc045.tendl Threshold 300.00 eV
n-Sc045.endfb8.0 Threshold 297.53 eV
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
42
21-Sc-45


MAT 2125
Dpa inelastic (mt51-91)
Cross Section
21-Sc-45
-40.04 To 9999. %
Max Ratio
Min Ratio
n-Sc045.tendl Threshold 105.74 keV
n-Sc045.endfb8.0 Threshold 12.728 keV
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
43
21-Sc-45


MAT 2125
Dpa disappearance (mt102 -120)
Cross Section
21-Sc-45
-97.90 To 9999. %
Min Ratio
Max Ratio
n-Sc045.tendl
n-Sc045.endfb8.0
Cross Section (barns)
n-Sc045.endfb8.0/n-Sc045.tendl
Ratio
Incident Energy (eV)
44
21-Sc-45