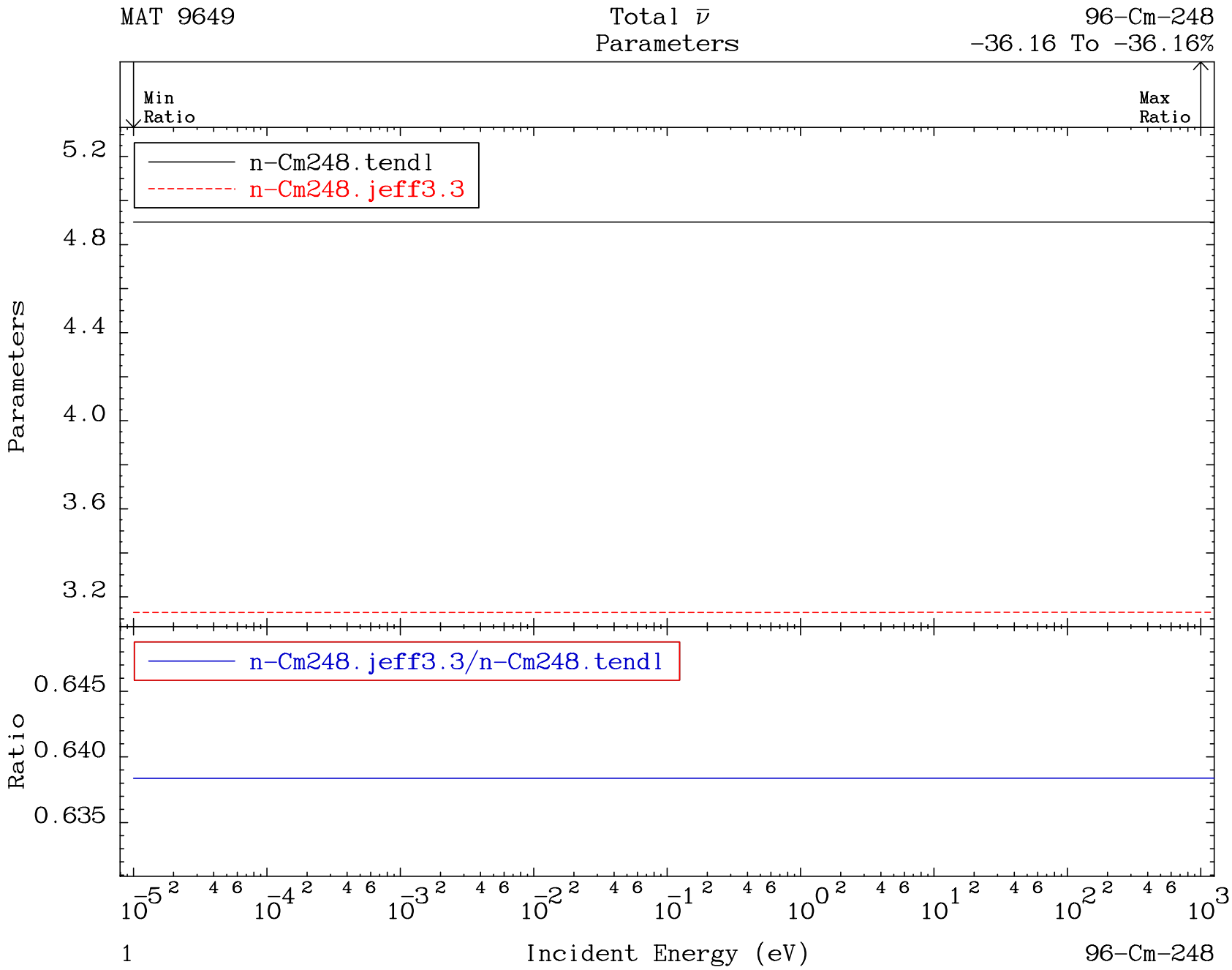
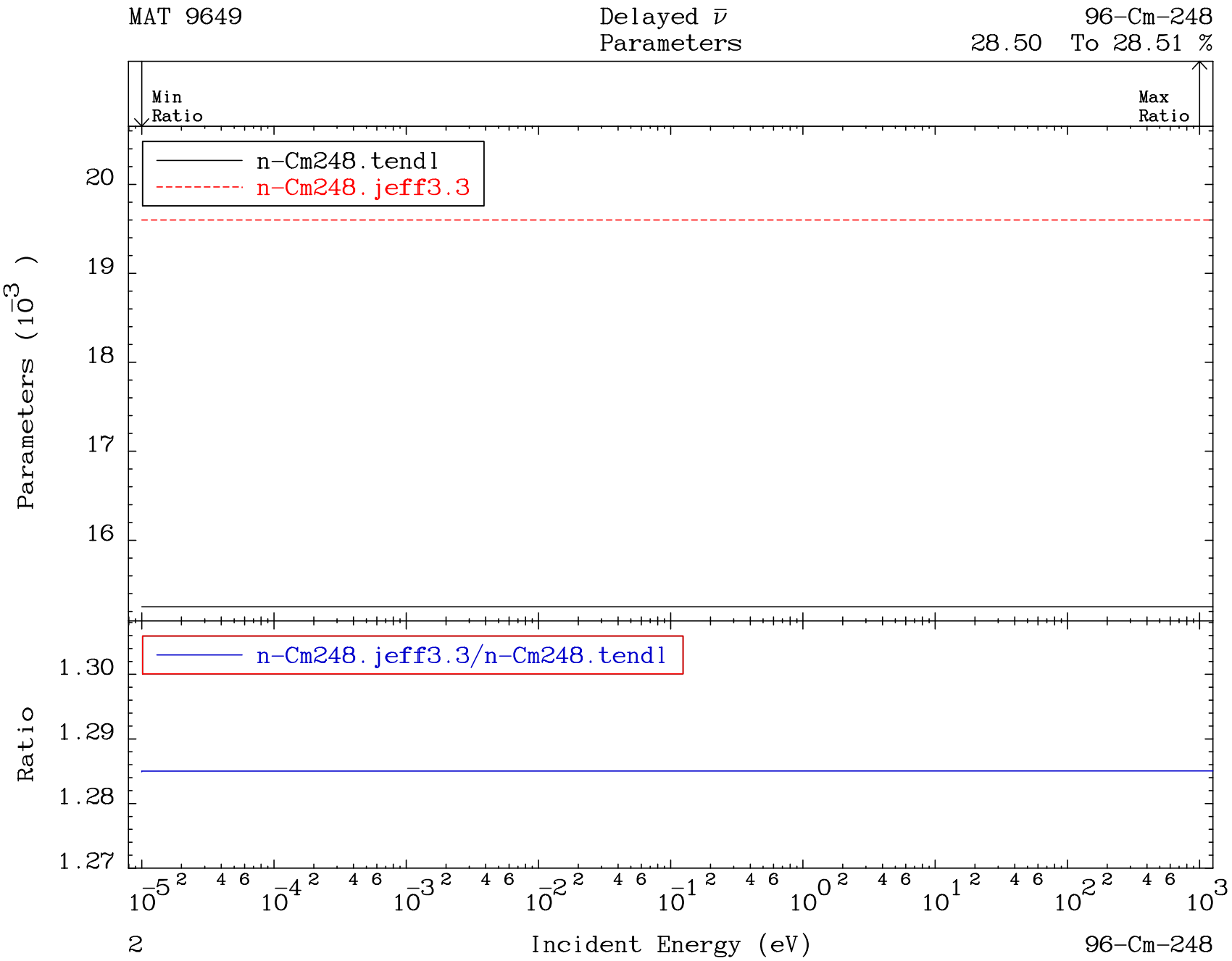
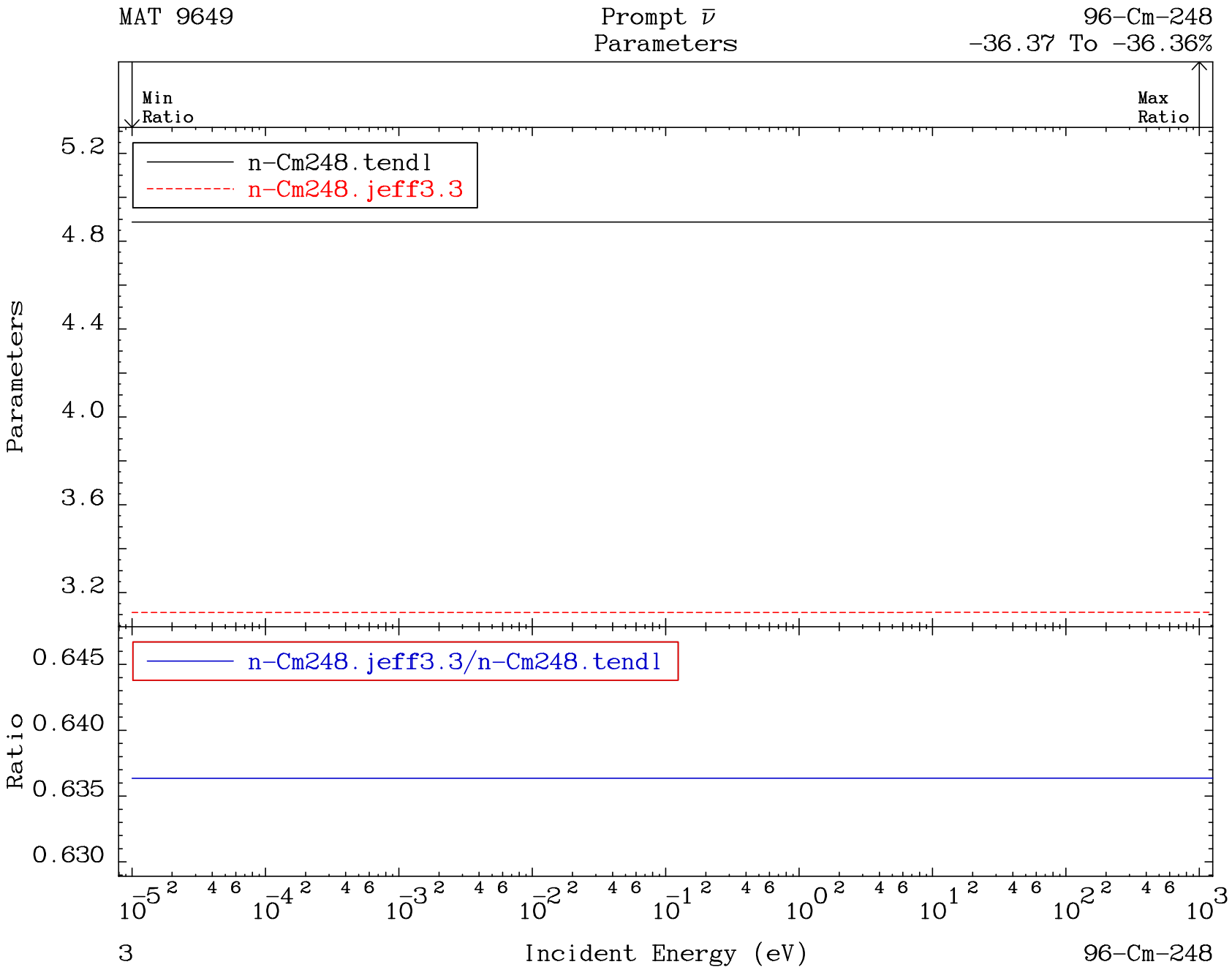
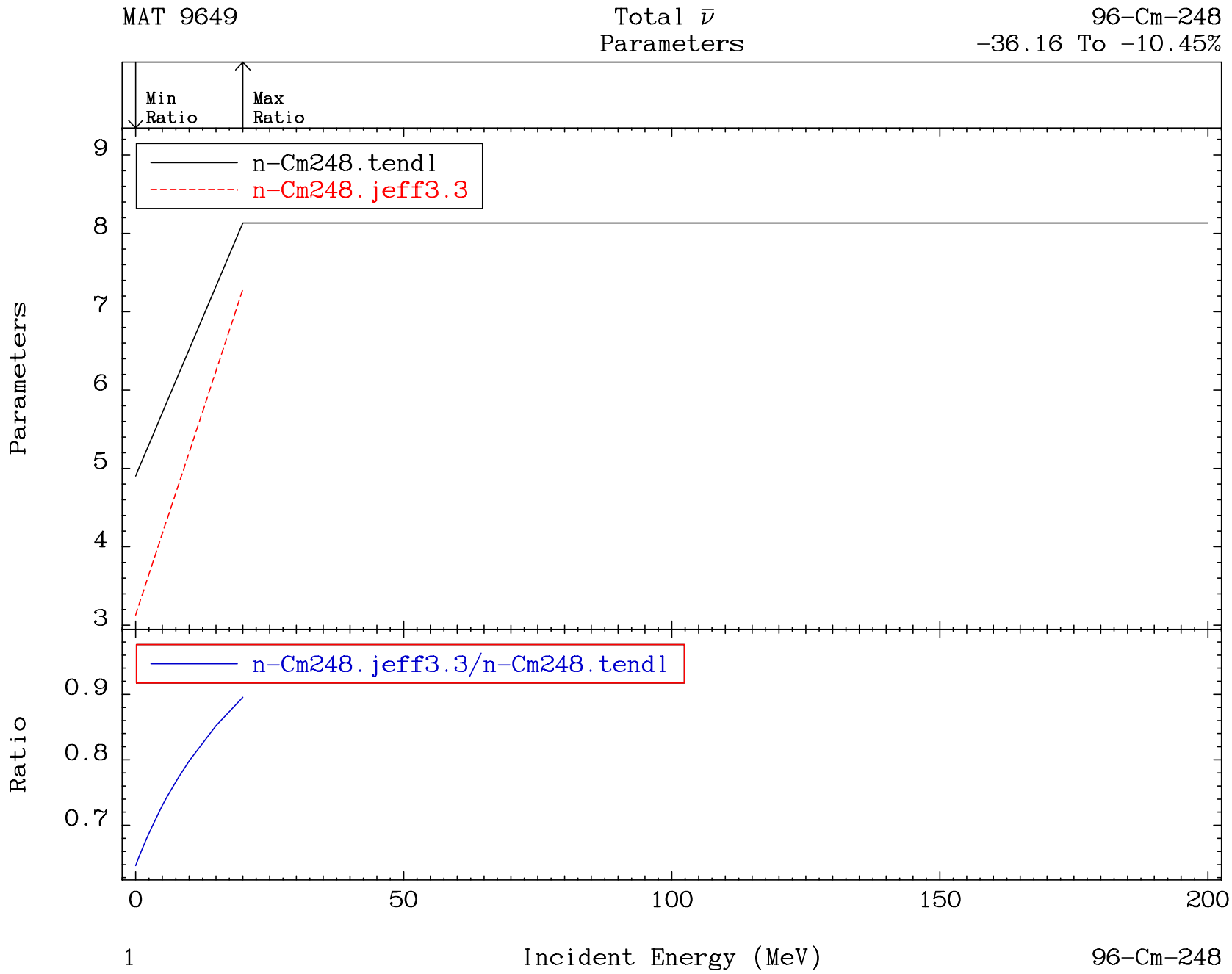
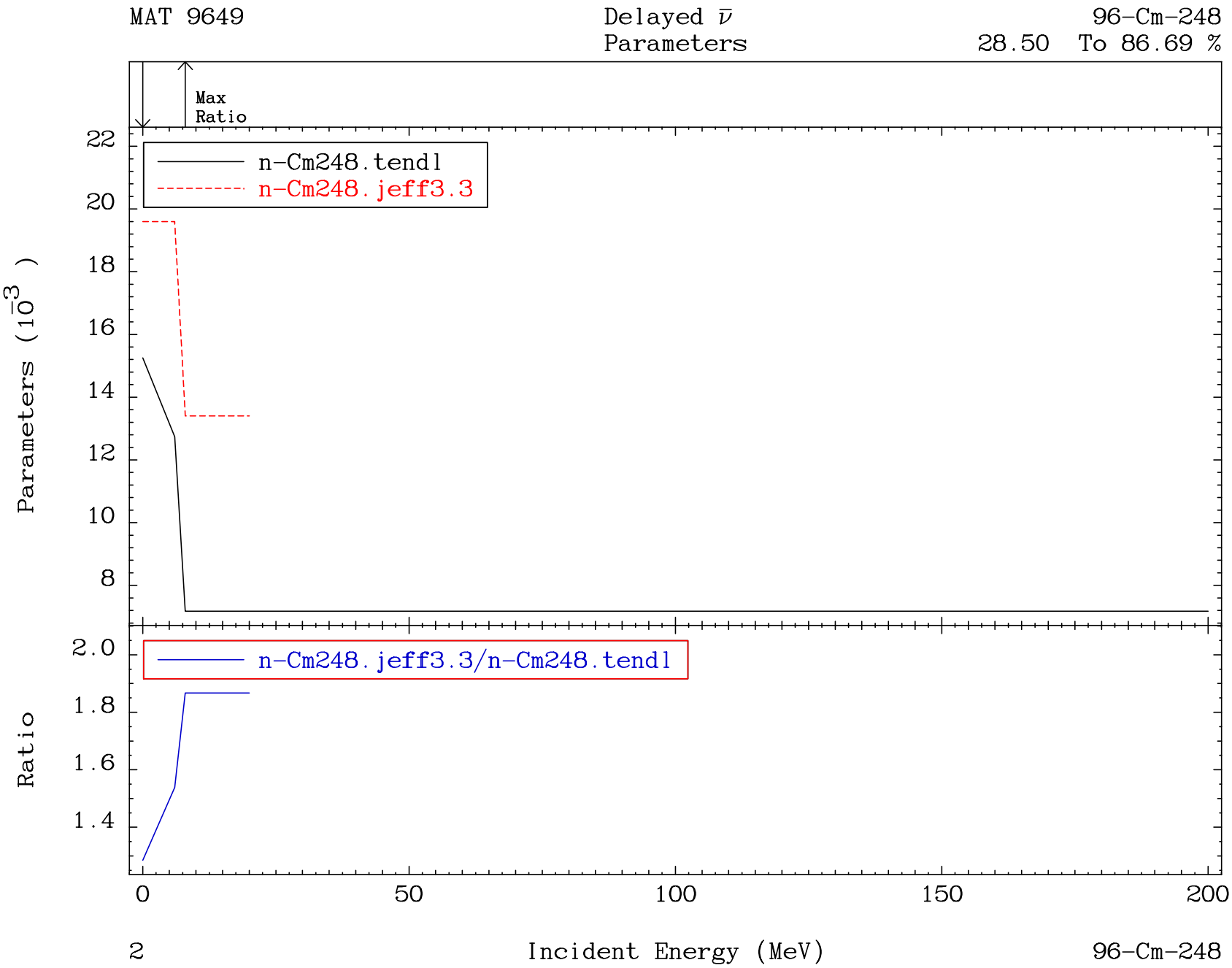
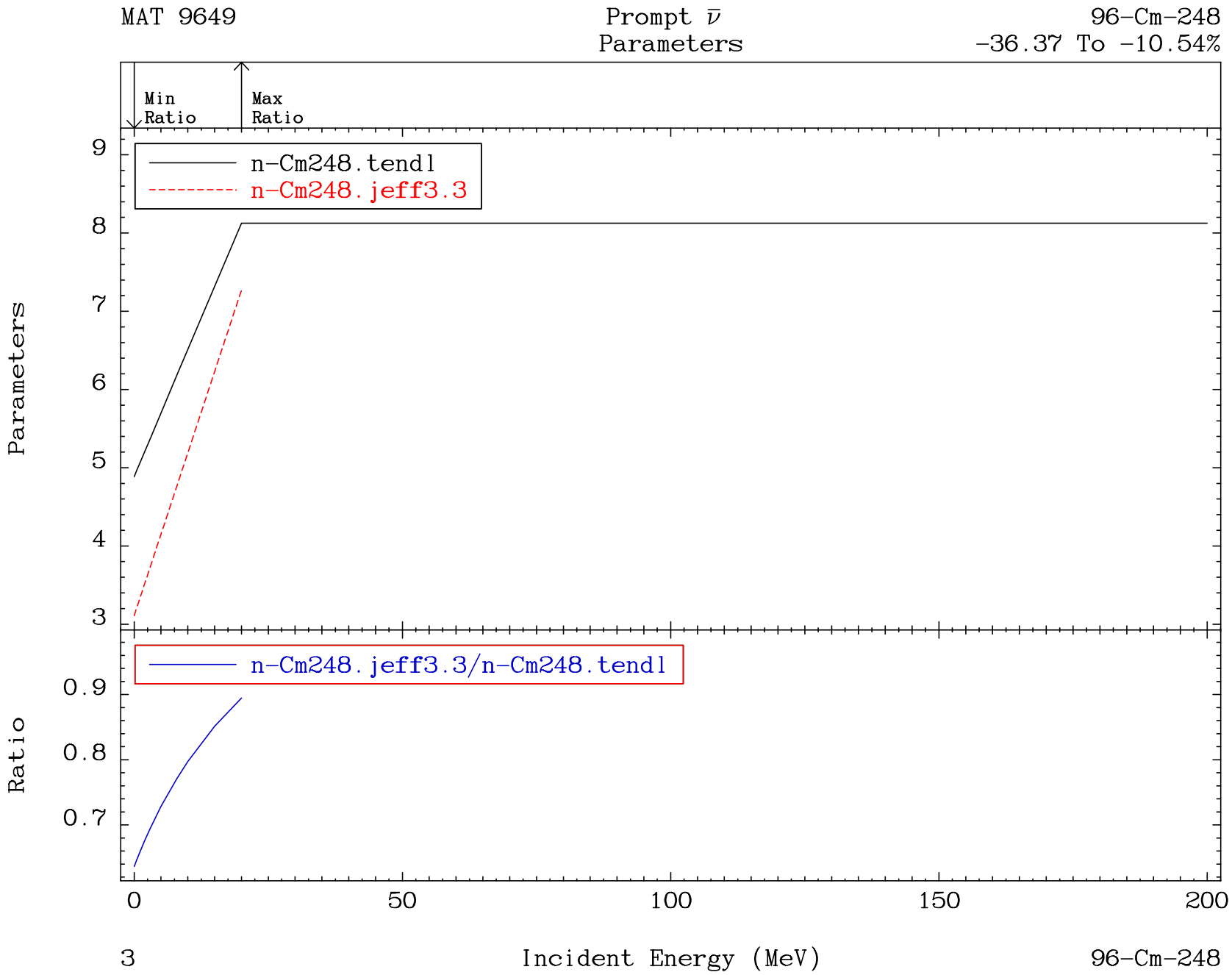

MAT 9649
Total $\bar{\nu}$
Parameters
96-Cm-248
-36.16 To -36.16%
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
n-Cm248.jeff3.3/n-Cm248.tendl
Parameters
Ratio
5.2
4.8
4.4
4.0
3.6
3.2
0.645
0.640
0.635
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}
1
Incident Energy (eV)
96-Cm-248

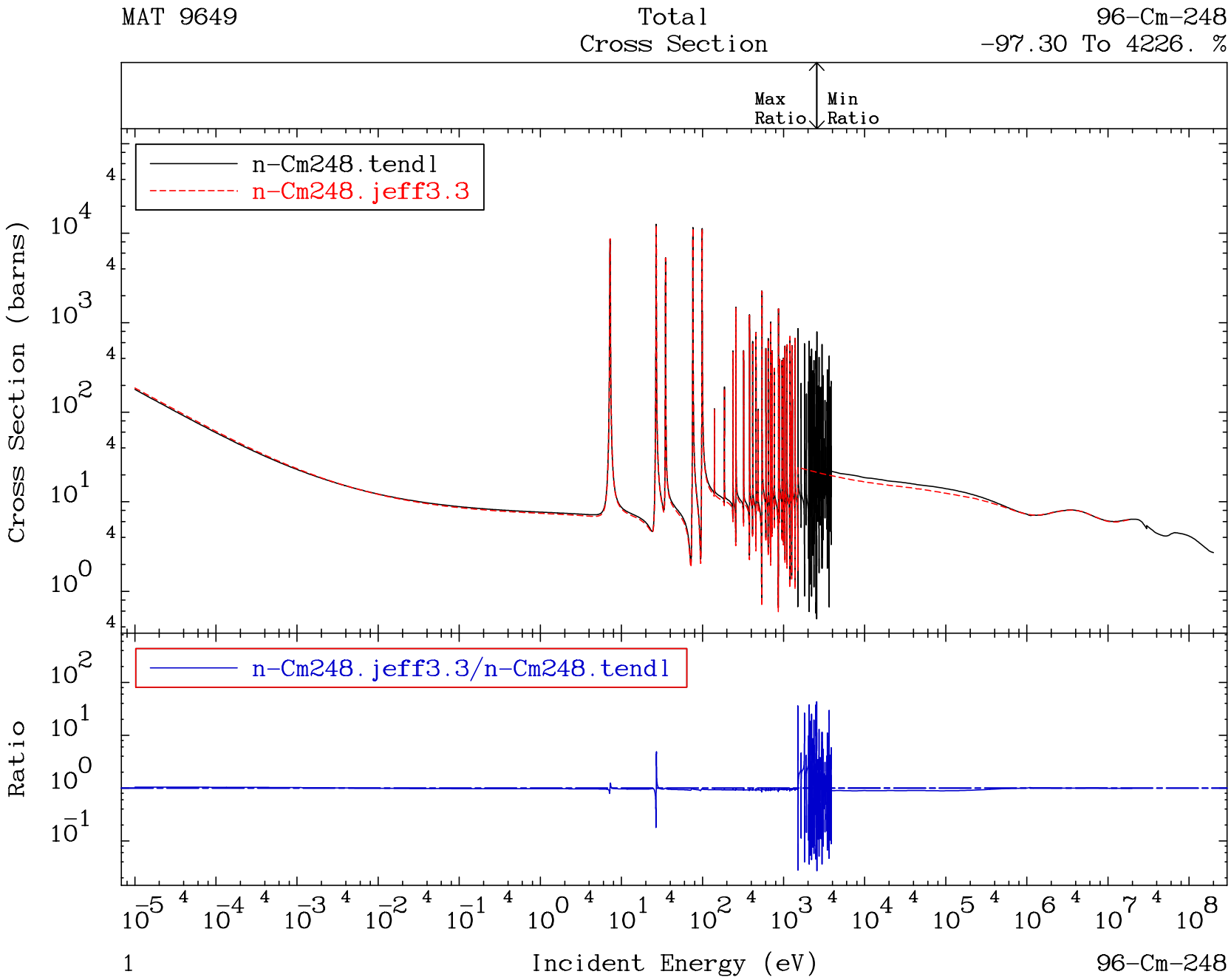

MAT 9649
Delayed $\bar{\nu}$
Parameters
96-Cm-248
28.50 To 28.51 %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
n-Cm248.jeff3.3/n-Cm248.tendl
Parameters (10^{-3})
Ratio
Incident Energy (eV)
2
96-Cm-248

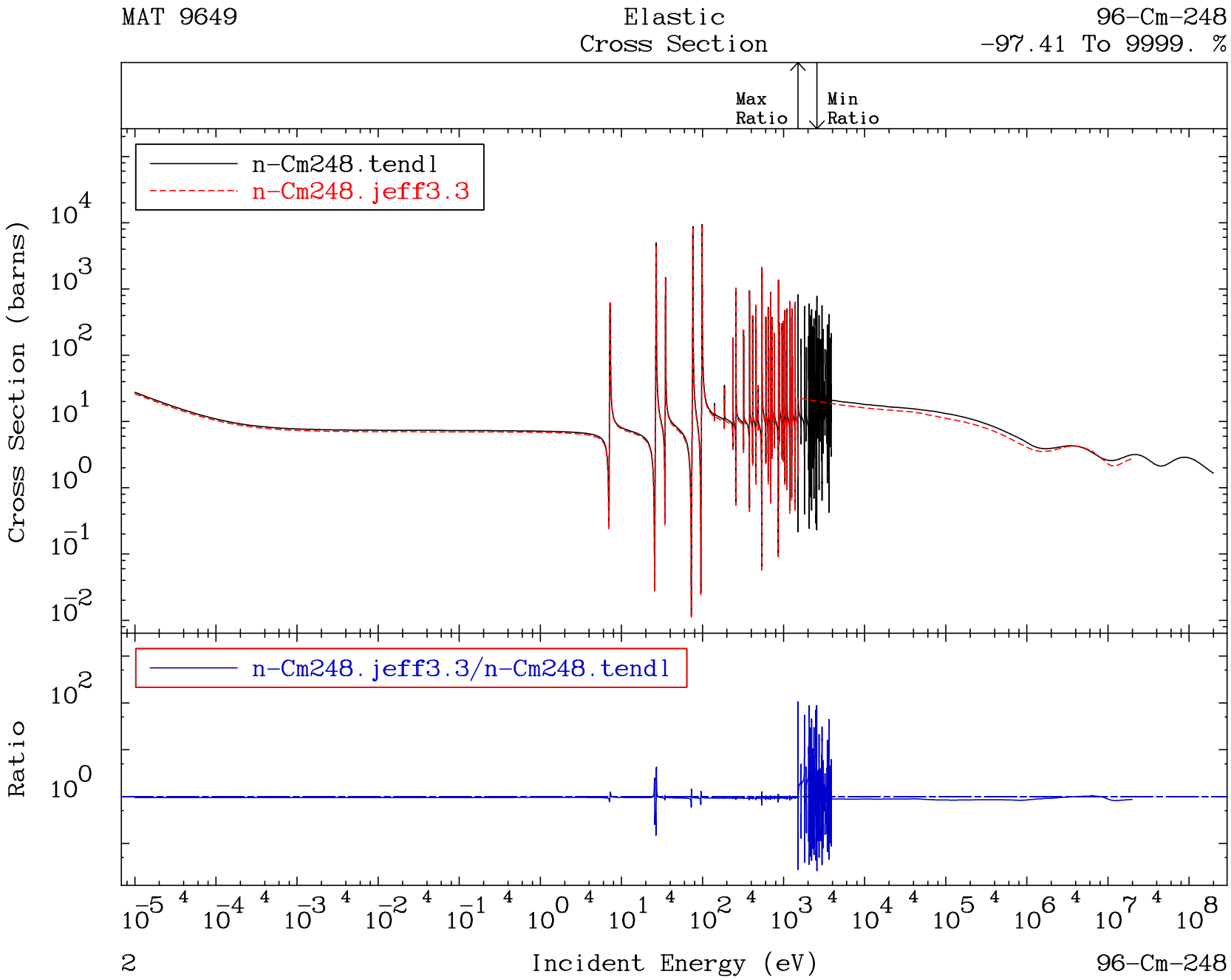

MAT 9649
Prompt $\bar{\nu}$
Parameters
96-Cm-248
-36.37 To -36.36%
Min
Ratio
Max
Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
n-Cm248.jeff3.3/n-Cm248.tendl
Parameters
Ratio
5.2
4.8
4.4
4.0
3.6
3.2
0.645
0.640
0.635
0.630
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3}
Incident Energy (eV)
3
96-Cm-248

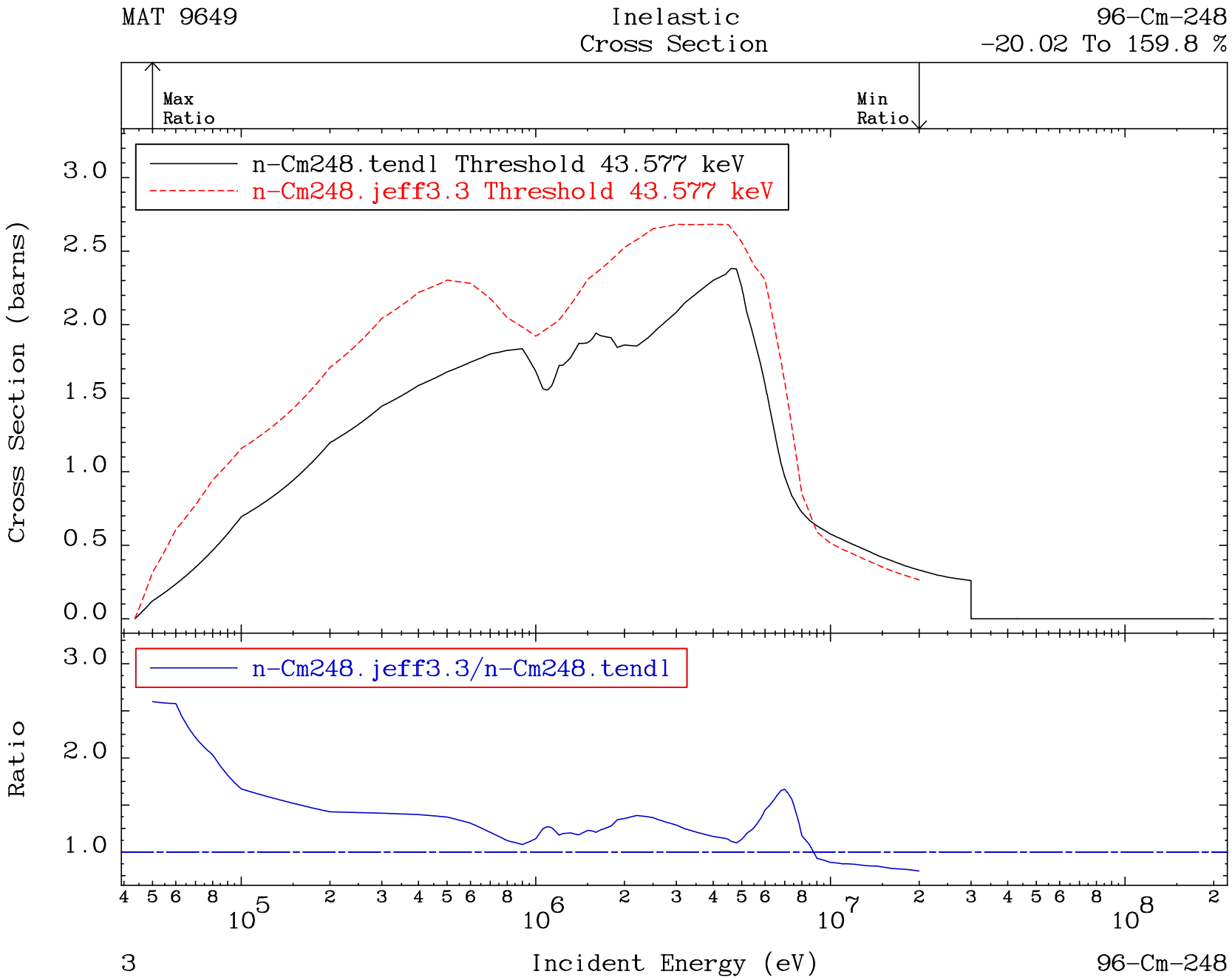

MAT 9649
Total $\bar{\nu}$
Parameters
96-Cm-248
-36.16 To -10.45%
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
n-Cm248.jeff3.3/n-Cm248.tendl
Parameters
Ratio
Incident Energy (MeV)
96-Cm-248
1
0
50
100
150
200
3
4
5
6
7
8
9
0.7
0.8
0.9

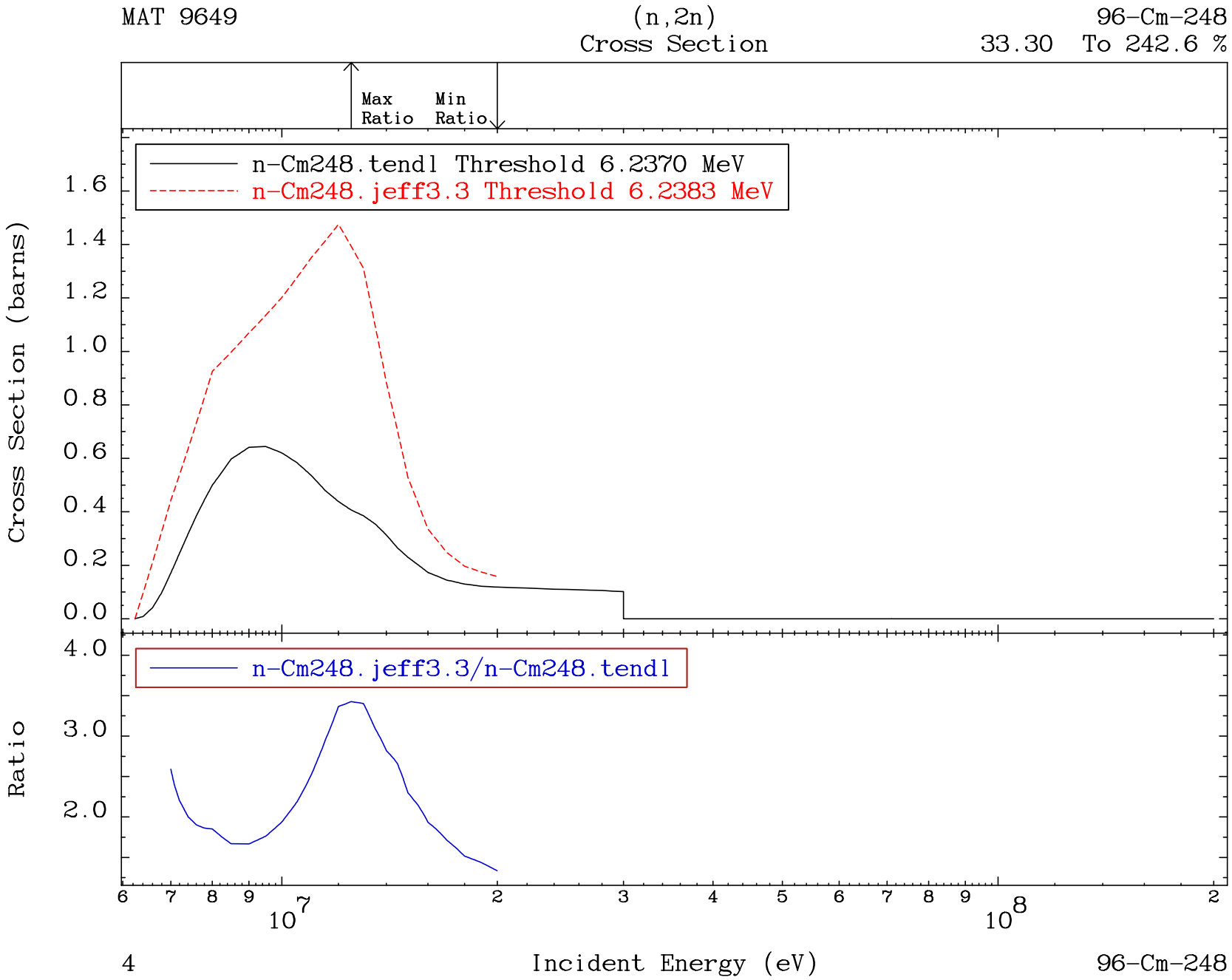

MAT 9649
Delayed $\bar{\nu}$
Parameters
96-Cm-248
28.50 To 86.69 %
Max
Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Parameters (10^{-3})
22
20
18
16
14
12
10
8
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
2.0
1.8
1.6
1.4
0
50
100
150
200
2
Incident Energy (MeV)
96-Cm-248

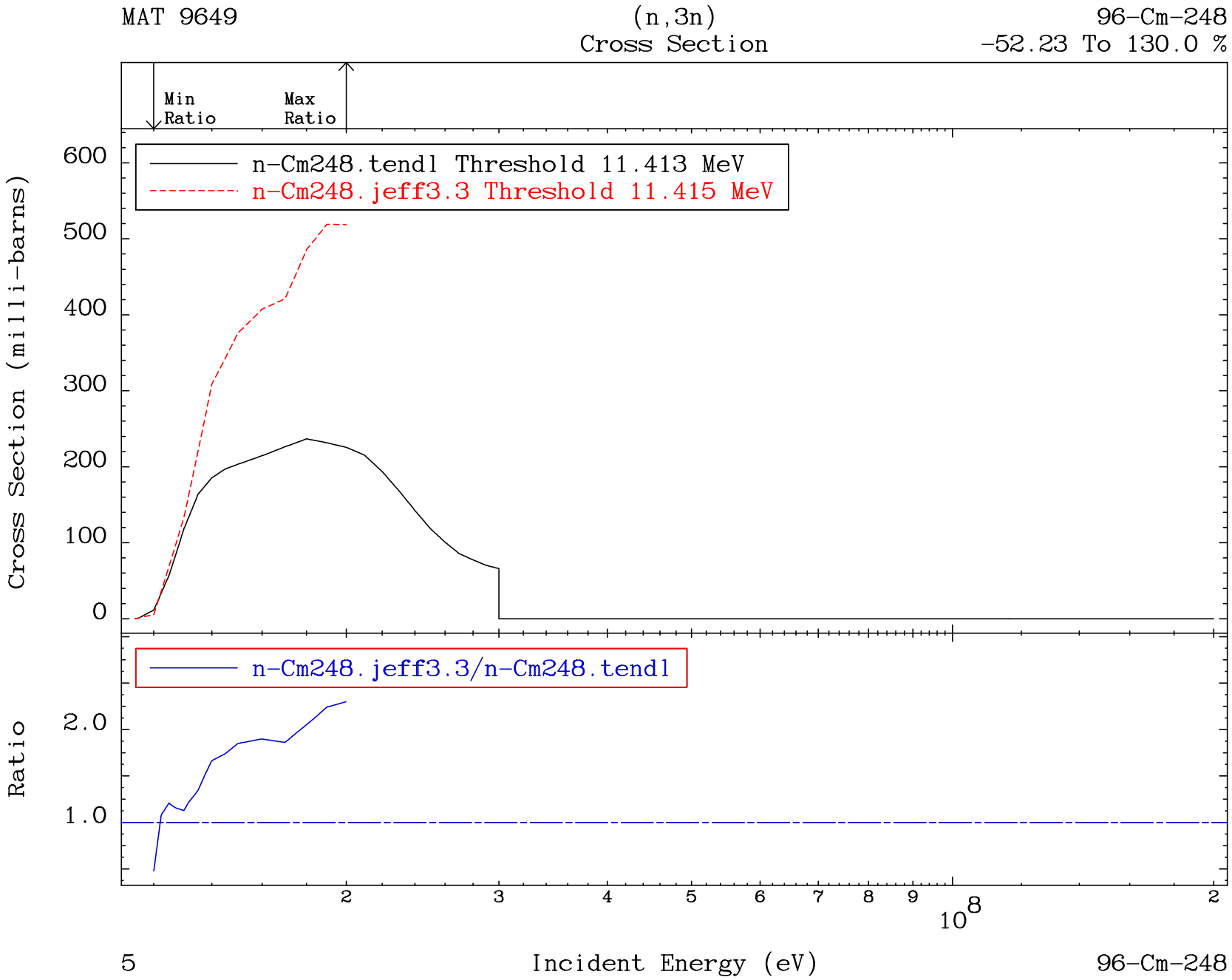

MAT 9649
Prompt $\bar{\nu}$
Parameters
96-Cm-248
-36.37 To -10.54%
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
n-Cm248.jeff3.3/n-Cm248.tendl
Parameters
Ratio
Incident Energy (MeV)
3
96-Cm-248
0
50
100
150
200
3
4
5
6
7
8
9
0.7
0.8
0.9

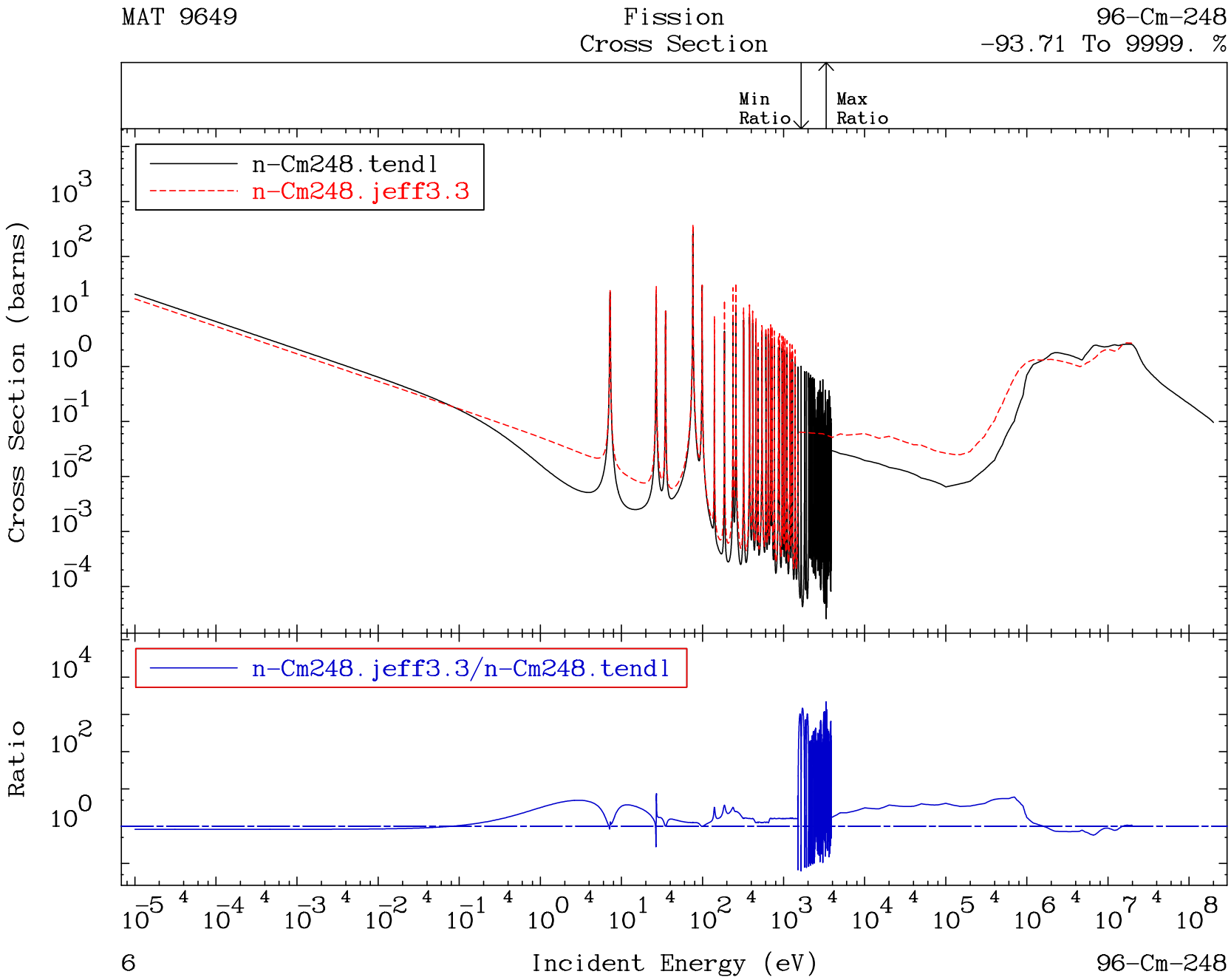

MAT 9649
Total
Cross Section
96-Cm-248
-97.30 To 4226. %
Max Ratio
Min Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
1
96-Cm-248

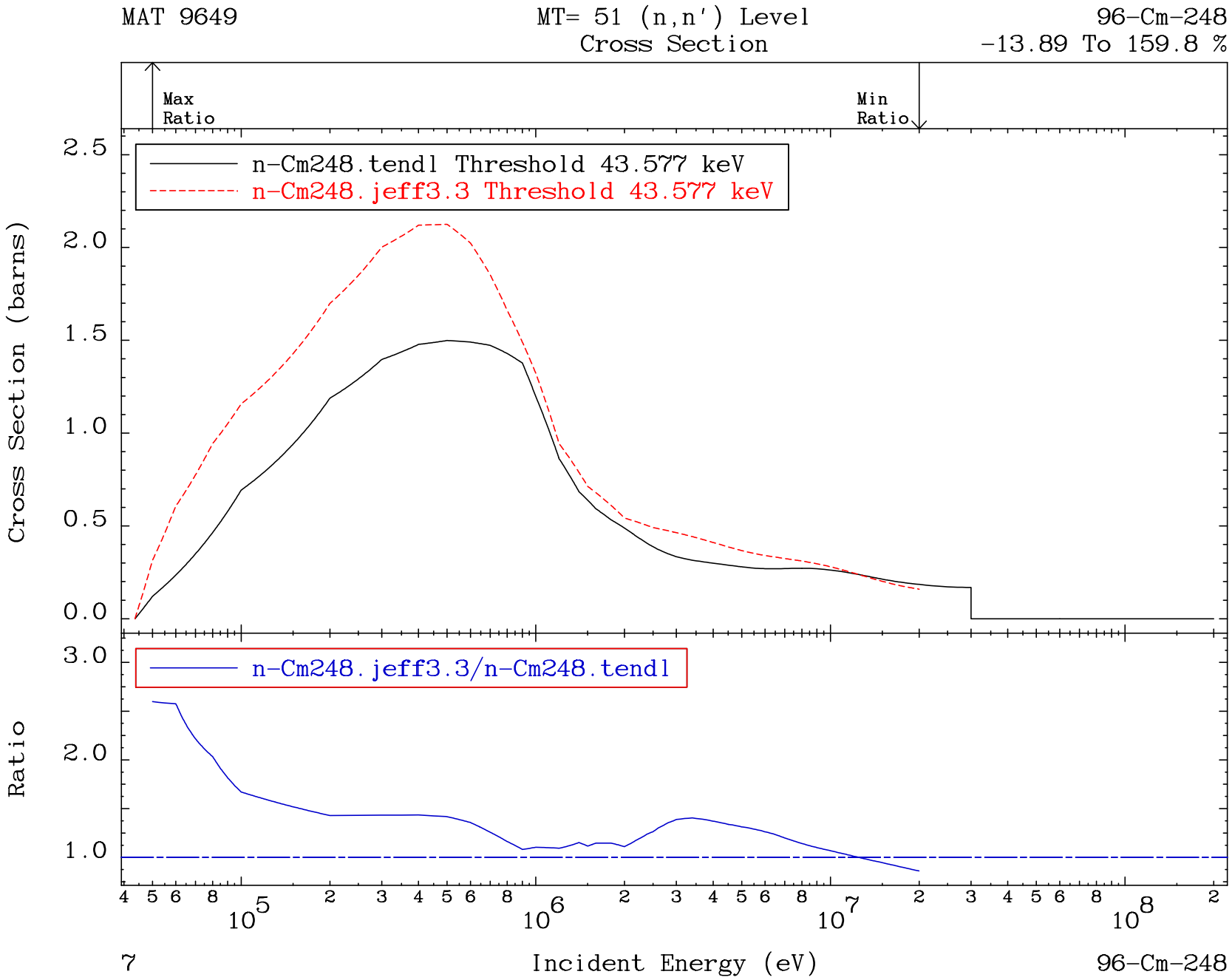

MAT 9649
Elastic
Cross Section
96-Cm-248
-97.41 To 9999. %
Max Ratio
Min Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
2
96-Cm-248

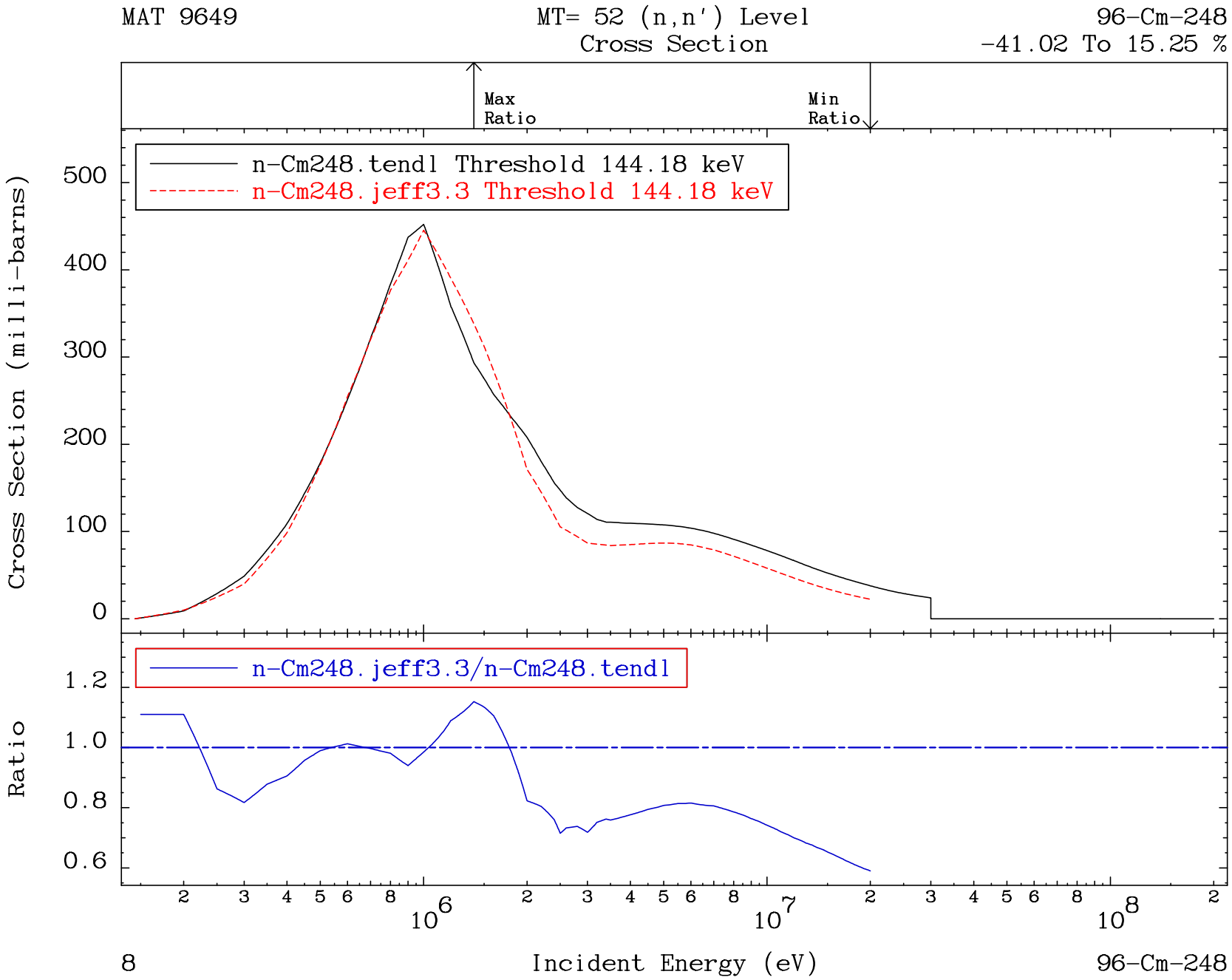

MAT 9649
Inelastic
Cross Section
96-Cm-248
-20.02 To 159.8 %
Max
Ratio
Min
Ratio
n-Cm248.tendl Threshold 43.577 keV
n-Cm248.jeff3.3 Threshold 43.577 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
3.0
2.0
1.0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
96-Cm-248

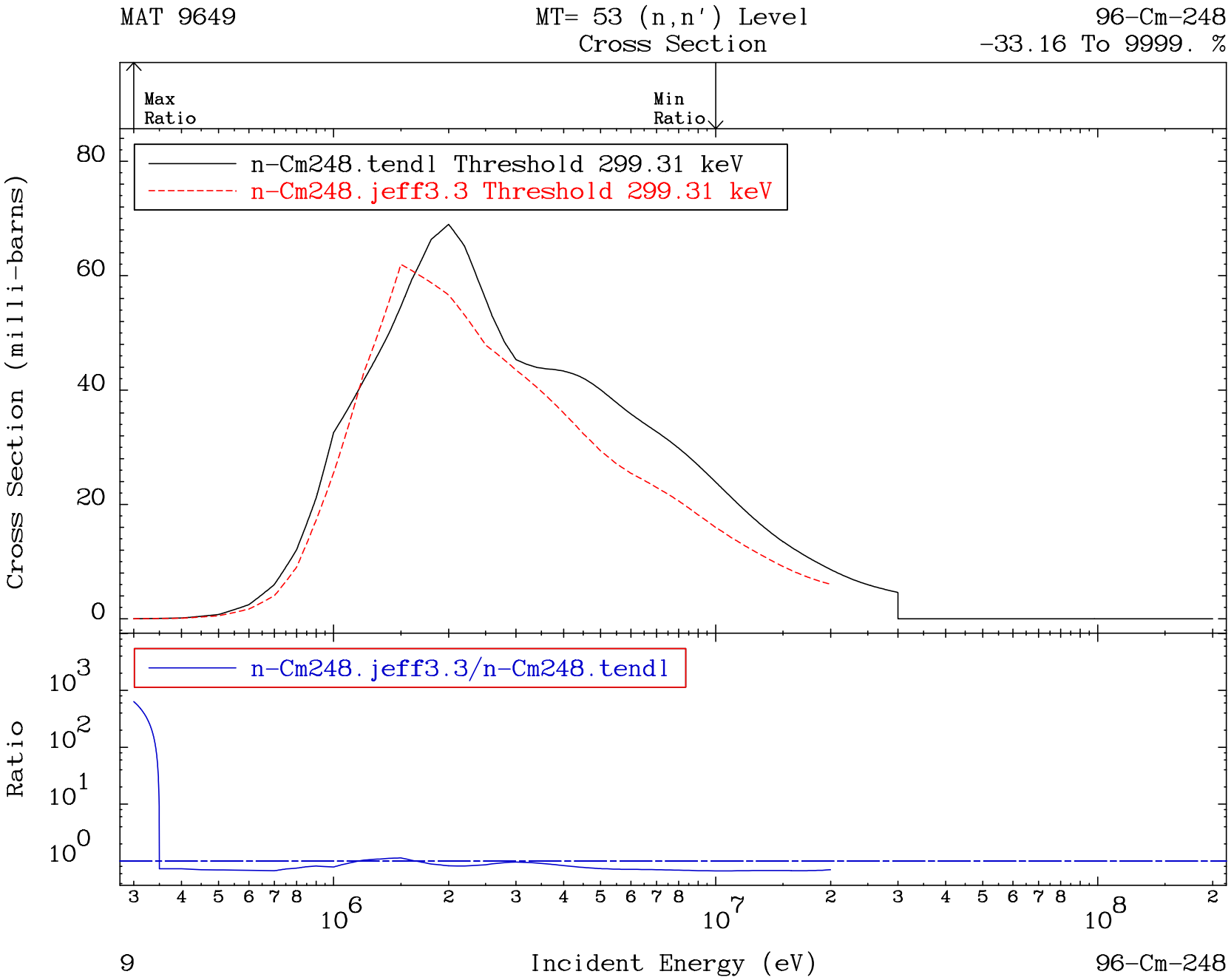

MAT 9649
(n,2n)
Cross Section
96-Cm-248
33.30 To 242.6 %
Max Ratio
Min Ratio
n-Cm248.tendl Threshold 6.2370 MeV
n-Cm248.jeff3.3 Threshold 6.2383 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
4.0
3.0
2.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
96-Cm-248

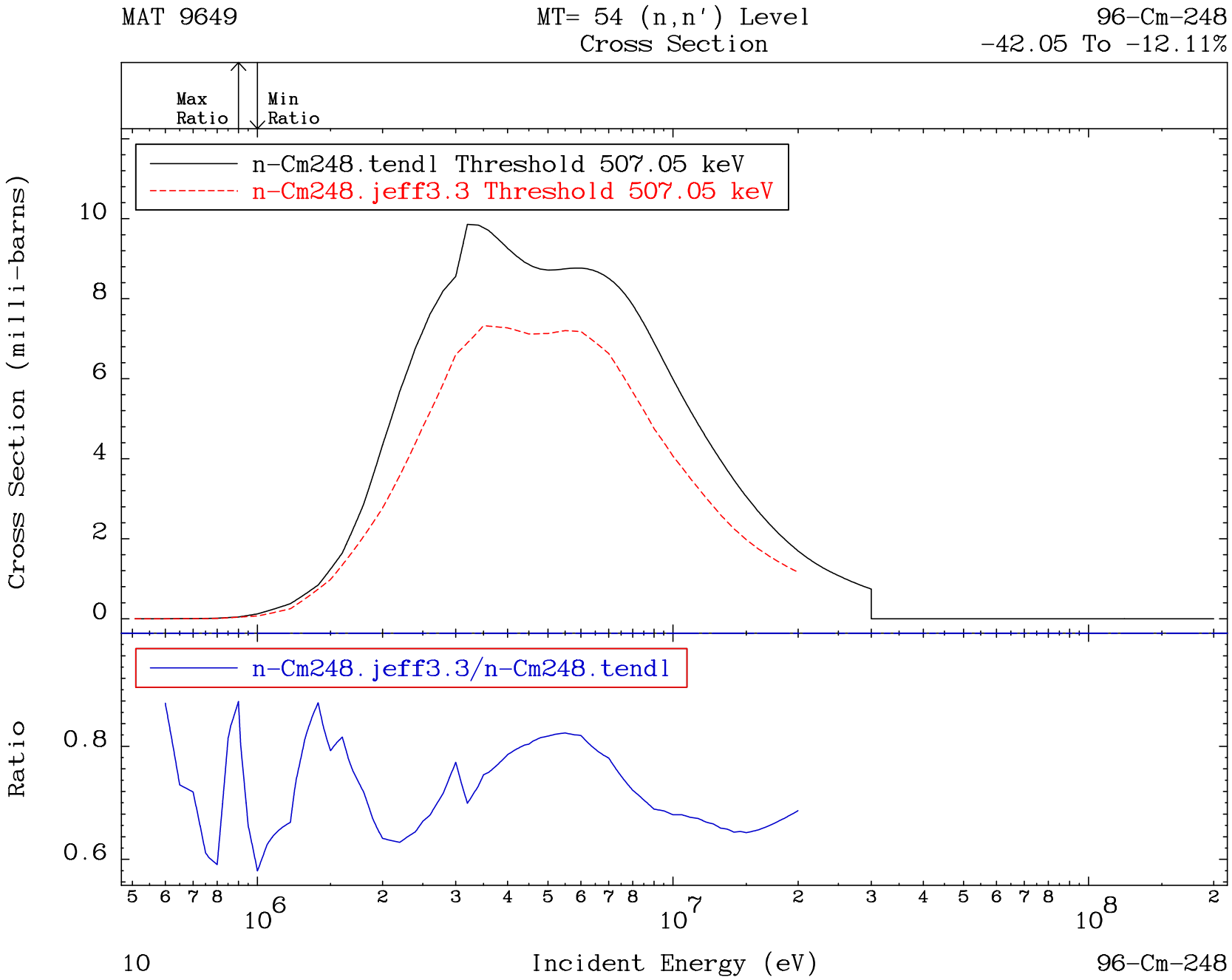

MAT 9649
(n,3n)
Cross Section
96-Cm-248
-52.23 To 130.0 %
Min Ratio
Max Ratio
n-Cm248.tendl Threshold 11.413 MeV
n-Cm248.jeff3.3 Threshold 11.415 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
96-Cm-248

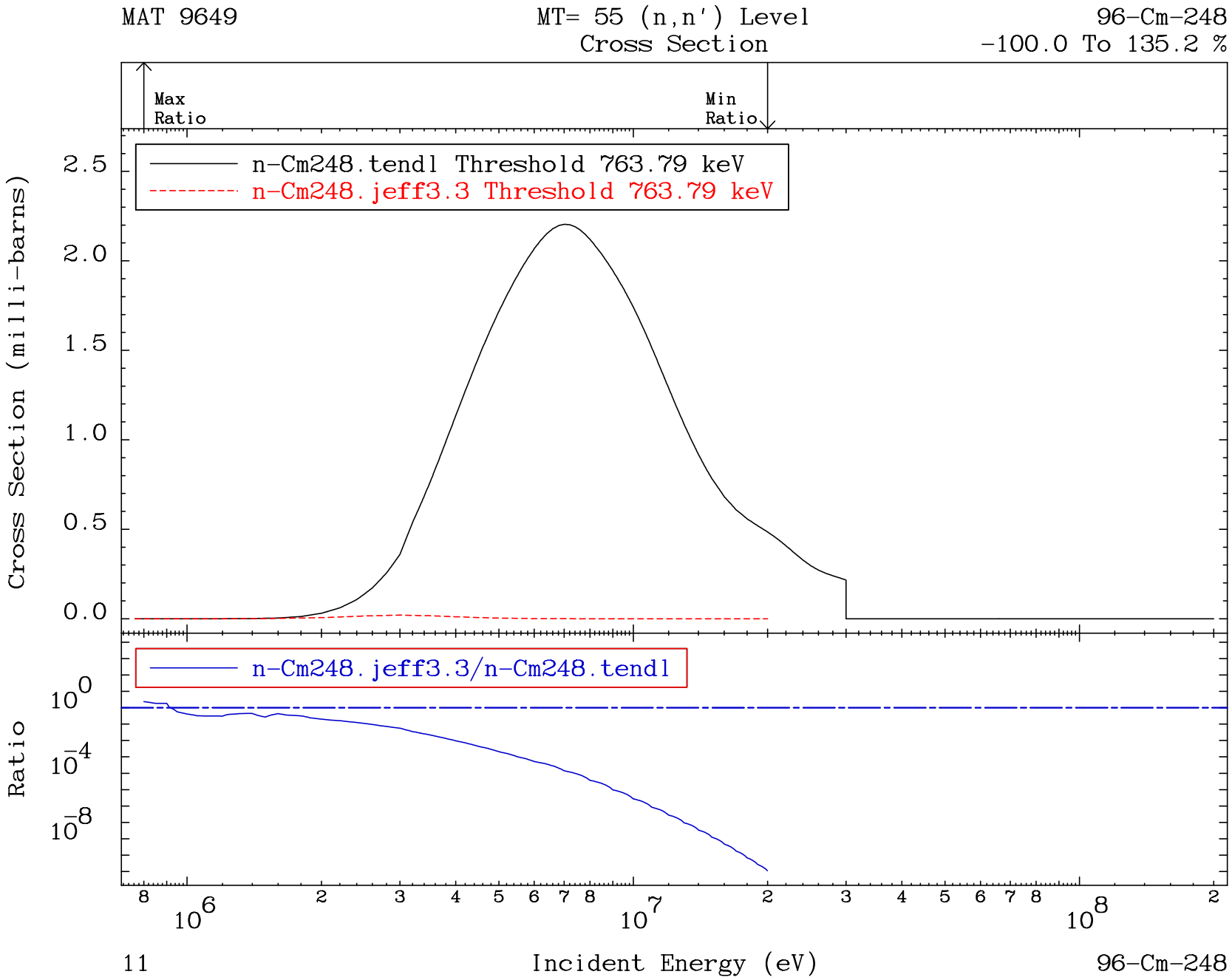

MAT 9649
Fission
Cross Section
96-Cm-248
-93.71 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
6
96-Cm-248

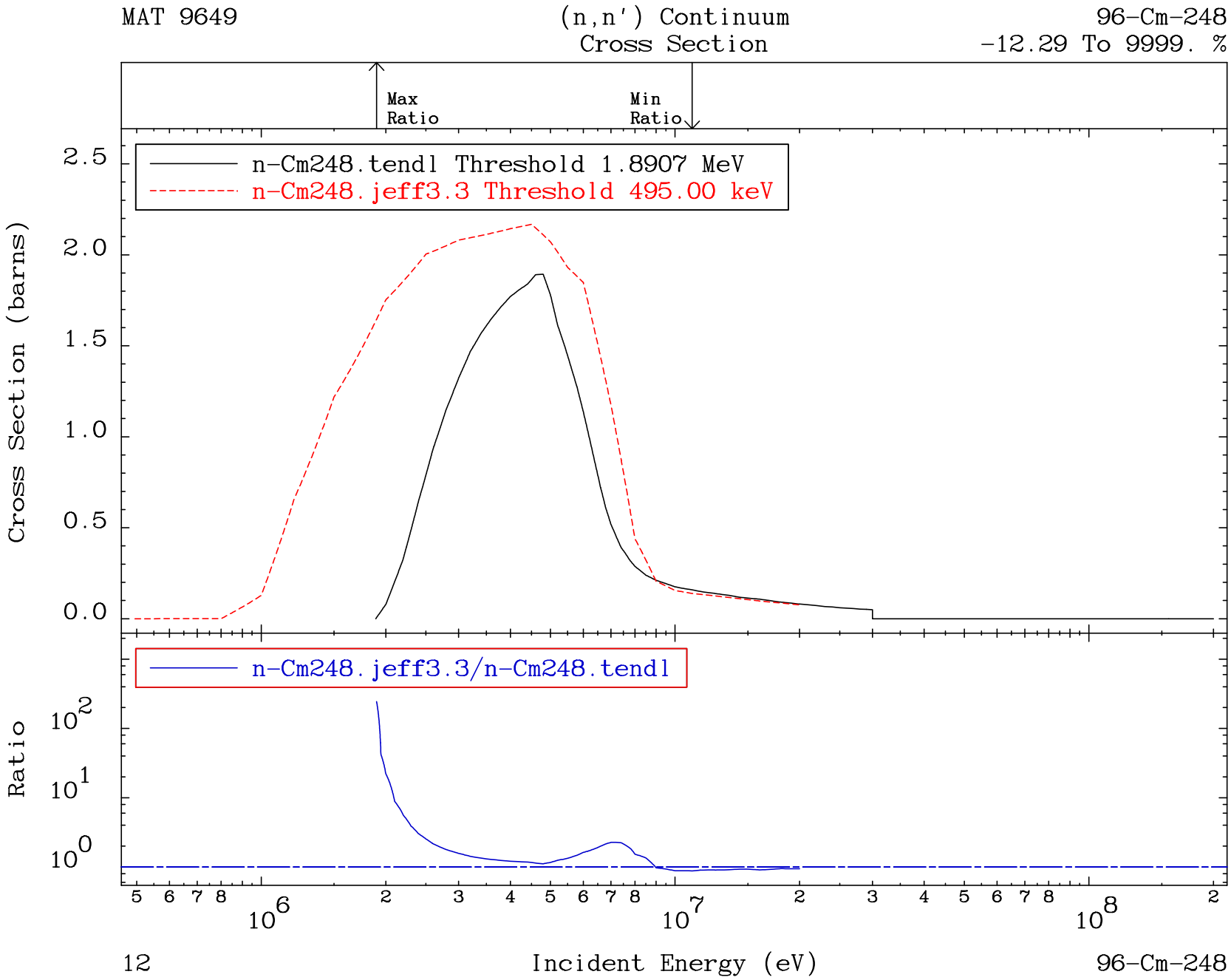

MAT 9649
MT= 51 (n,n') Level
Cross Section
96-Cm-248
-13.89 To 159.8 %
Max
Ratio
Min
Ratio
n-Cm248.tendl Threshold 43.577 keV
n-Cm248.jeff3.3 Threshold 43.577 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
3.0
2.0
1.0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
7
Incident Energy (eV)
96-Cm-248

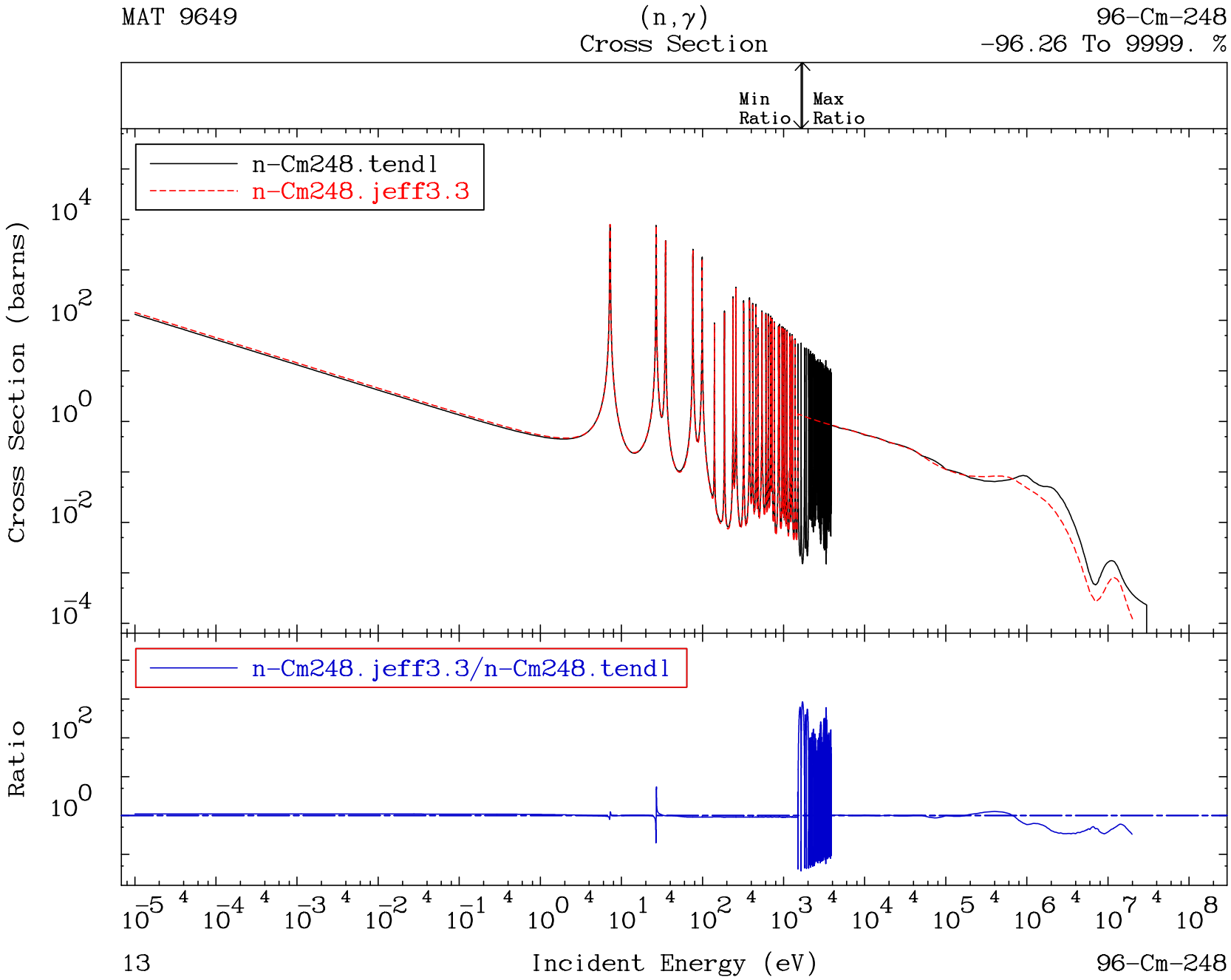

MAT 9649
MT= 52 (n,n') Level
Cross Section
96-Cm-248
-41.02 To 15.25 %
Max
Ratio
Min
Ratio
n-Cm248.tendl Threshold 144.18 keV
n-Cm248.jeff3.3 Threshold 144.18 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
1.2
1.0
0.8
0.6
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
96-Cm-248

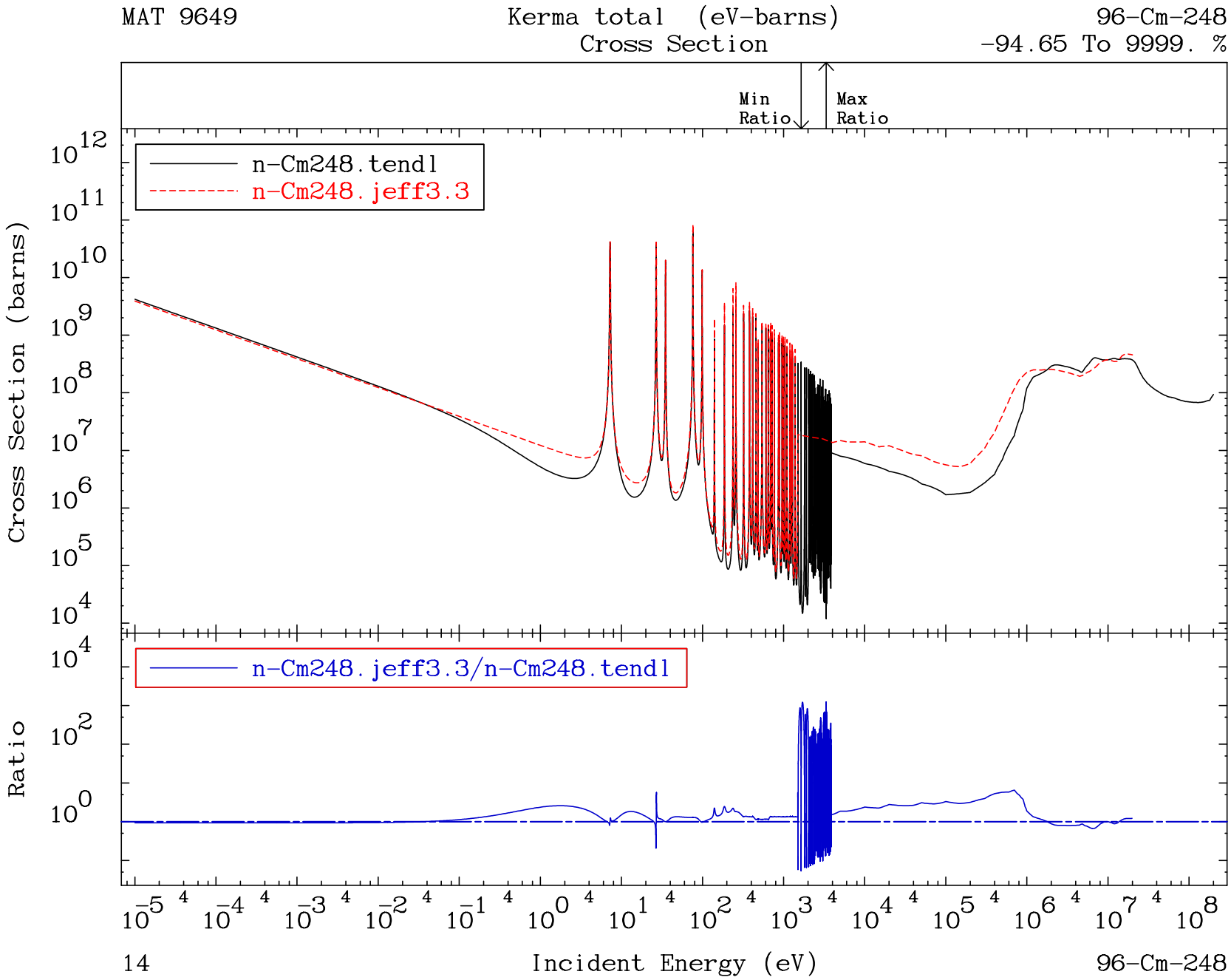

MAT 9649
MT= 53 (n,n') Level
Cross Section
96-Cm-248
-33.16 To 9999. %
Max Ratio
Min Ratio
n-Cm248.tendl Threshold 299.31 keV
n-Cm248.jeff3.3 Threshold 299.31 keV
Cross Section (milli-barns)
0
20
40
60
80
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
10^0
10^1
10^2
10^3
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
9
96-Cm-248

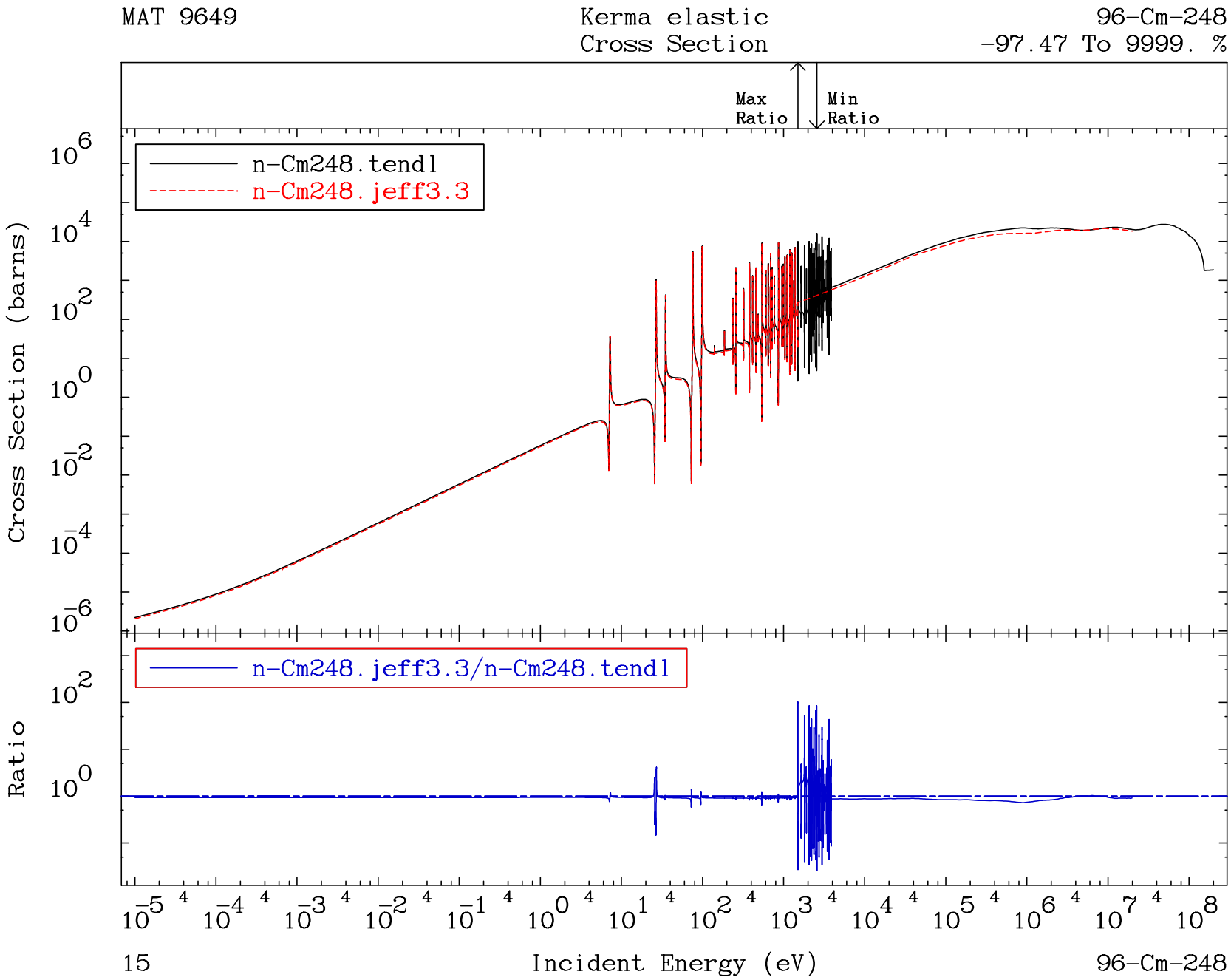

MAT 9649
MT= 54 (n,n') Level
Cross Section
96-Cm-248
-42.05 To -12.11%
Max Ratio
Min Ratio
n-Cm248.tendl Threshold 507.05 keV
n-Cm248.jeff3.3 Threshold 507.05 keV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
0.8
0.6
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
96-Cm-248

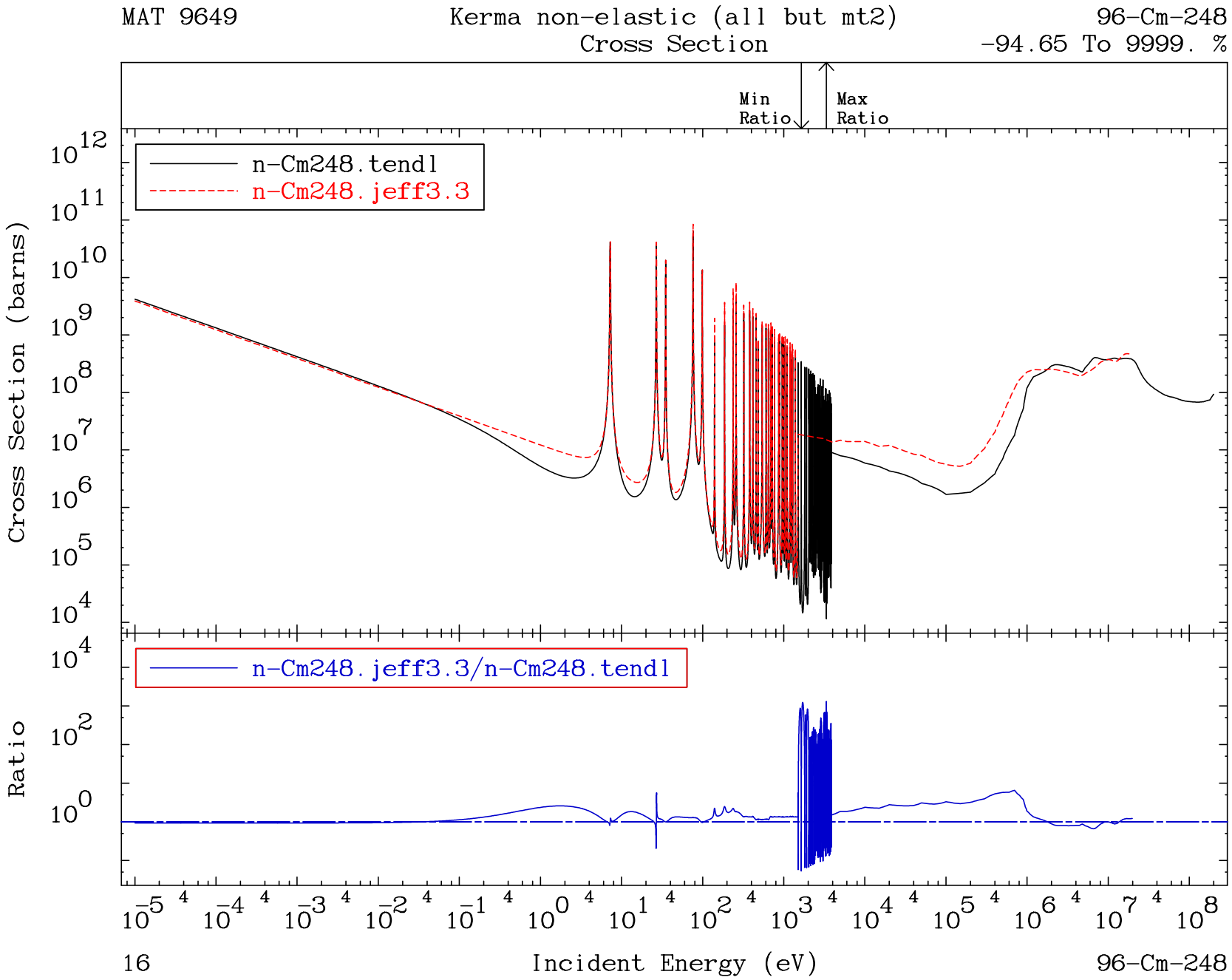

MAT 9649
MT= 55 (n,n') Level
Cross Section
96-Cm-248
-100.0 To 135.2 %
Max
Ratio
Min
Ratio
n-Cm248.tendl Threshold 763.79 keV
n-Cm248.jeff3.3 Threshold 763.79 keV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
10^0
10^-4
10^-8
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
96-Cm-248

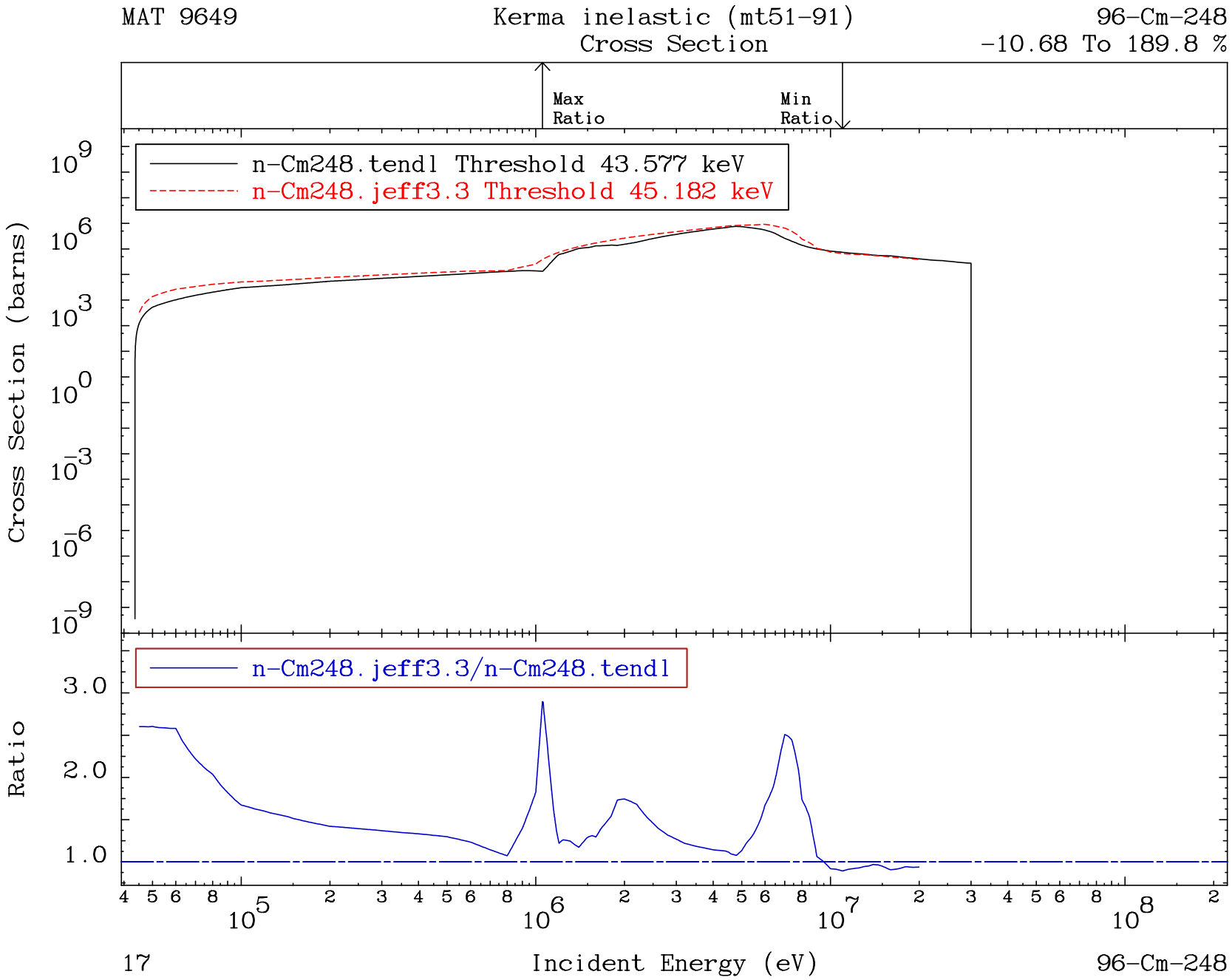

MAT 9649
(n,n') Continuum
Cross Section
96-Cm-248
-12.29 To 9999. %
Max
Ratio
Min
Ratio
n-Cm248.tendl Threshold 1.8907 MeV
n-Cm248.jeff3.3 Threshold 495.00 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
10^2
10^1
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
96-Cm-248

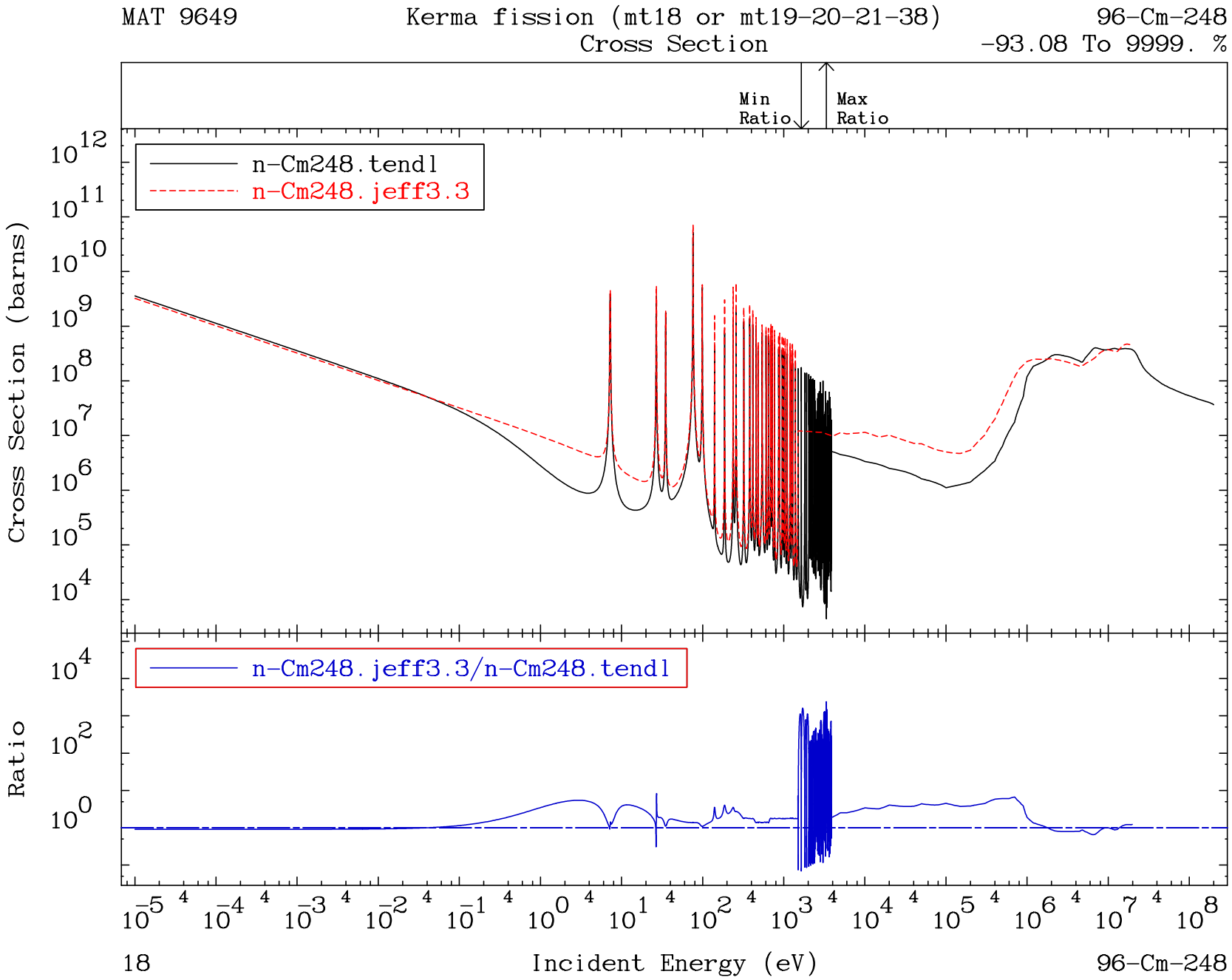

MAT 9649
(n,γ)
Cross Section
96-Cm-248
-96.26 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
13
96-Cm-248

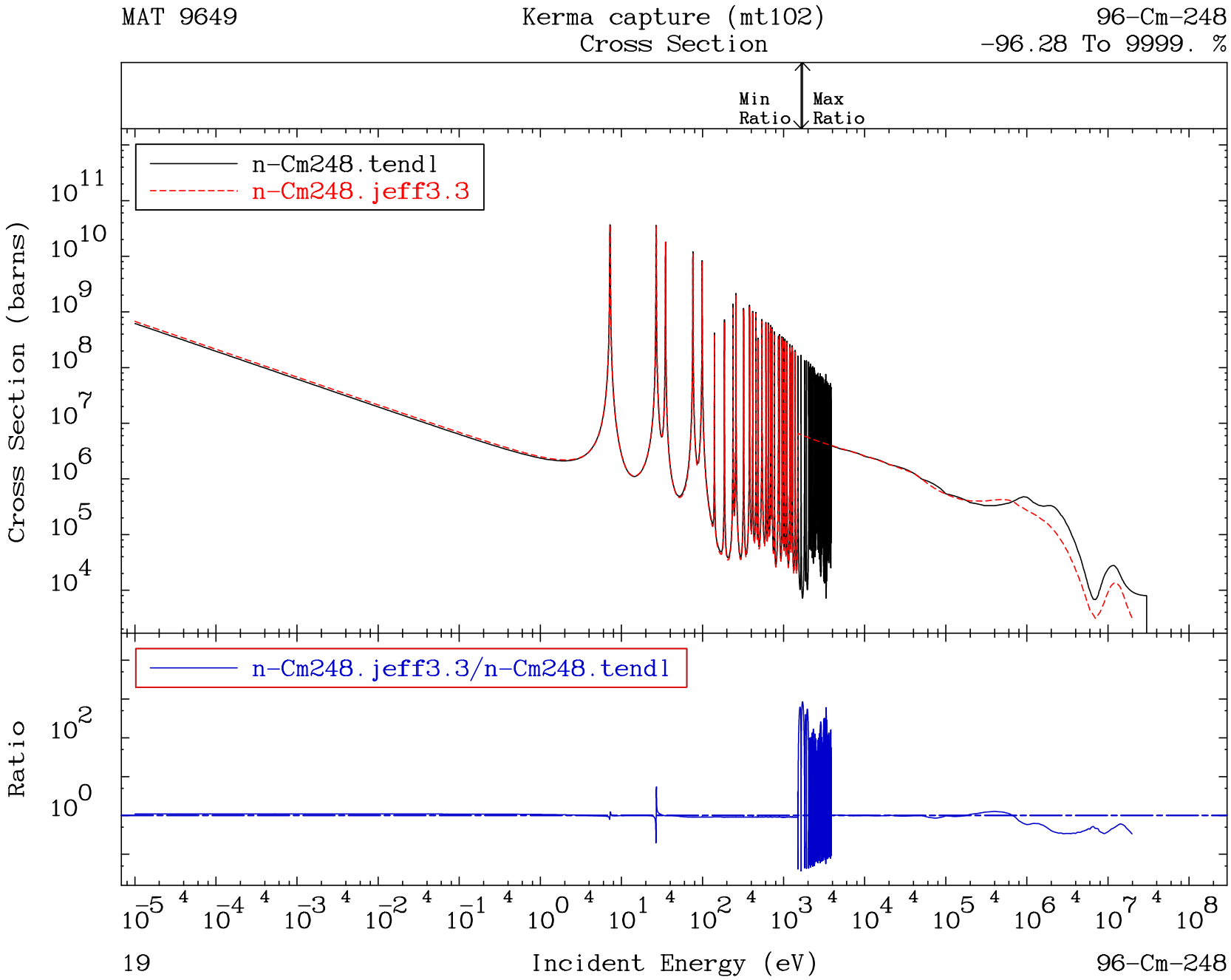

MAT 9649
Kerma total (eV-barns)
Cross Section
96-Cm-248
-94.65 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
14
96-Cm-248

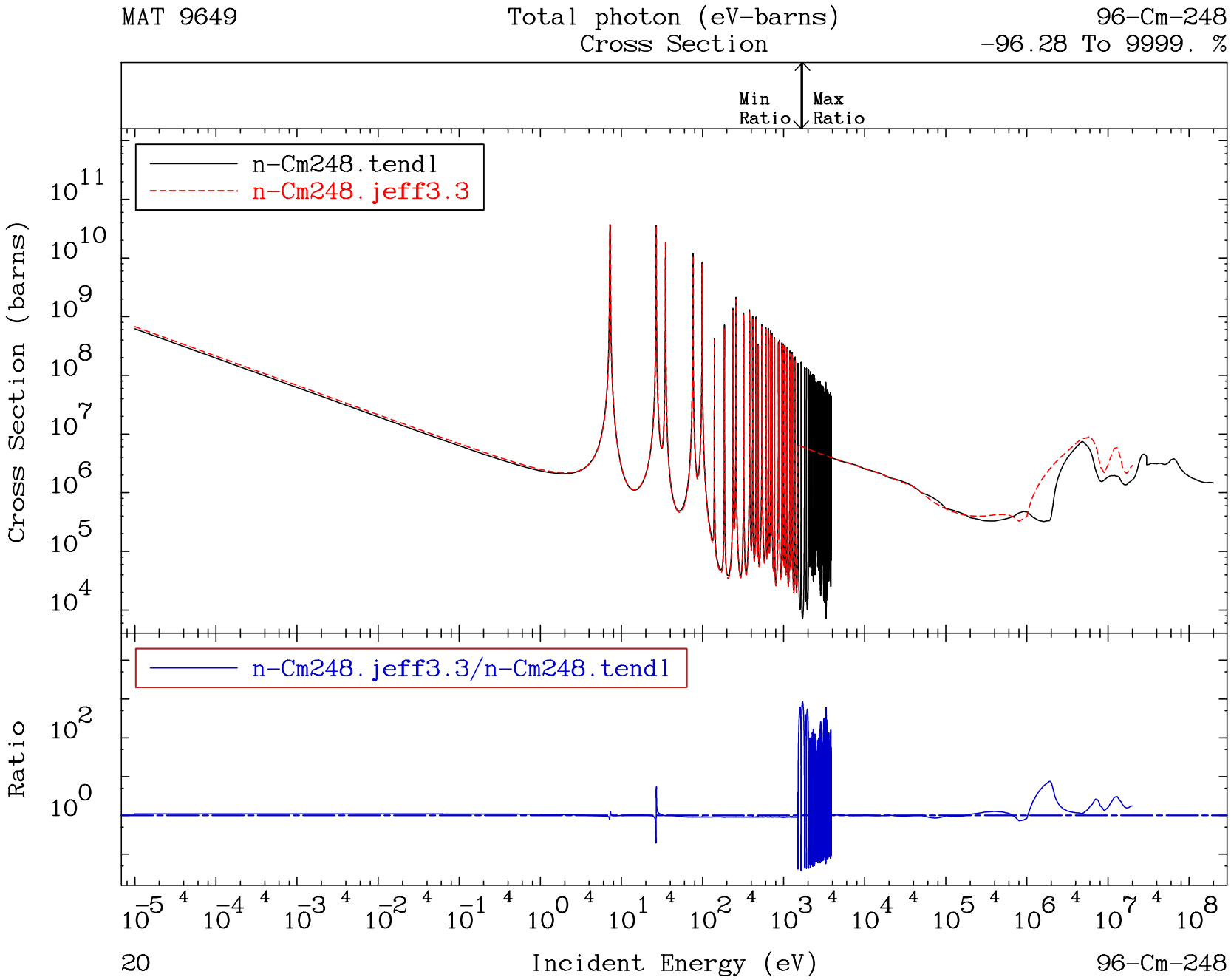

MAT 9649
Kerma elastic
Cross Section
96-Cm-248
-97.47 To 9999. %
Max
Ratio
Min
Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
15
96-Cm-248

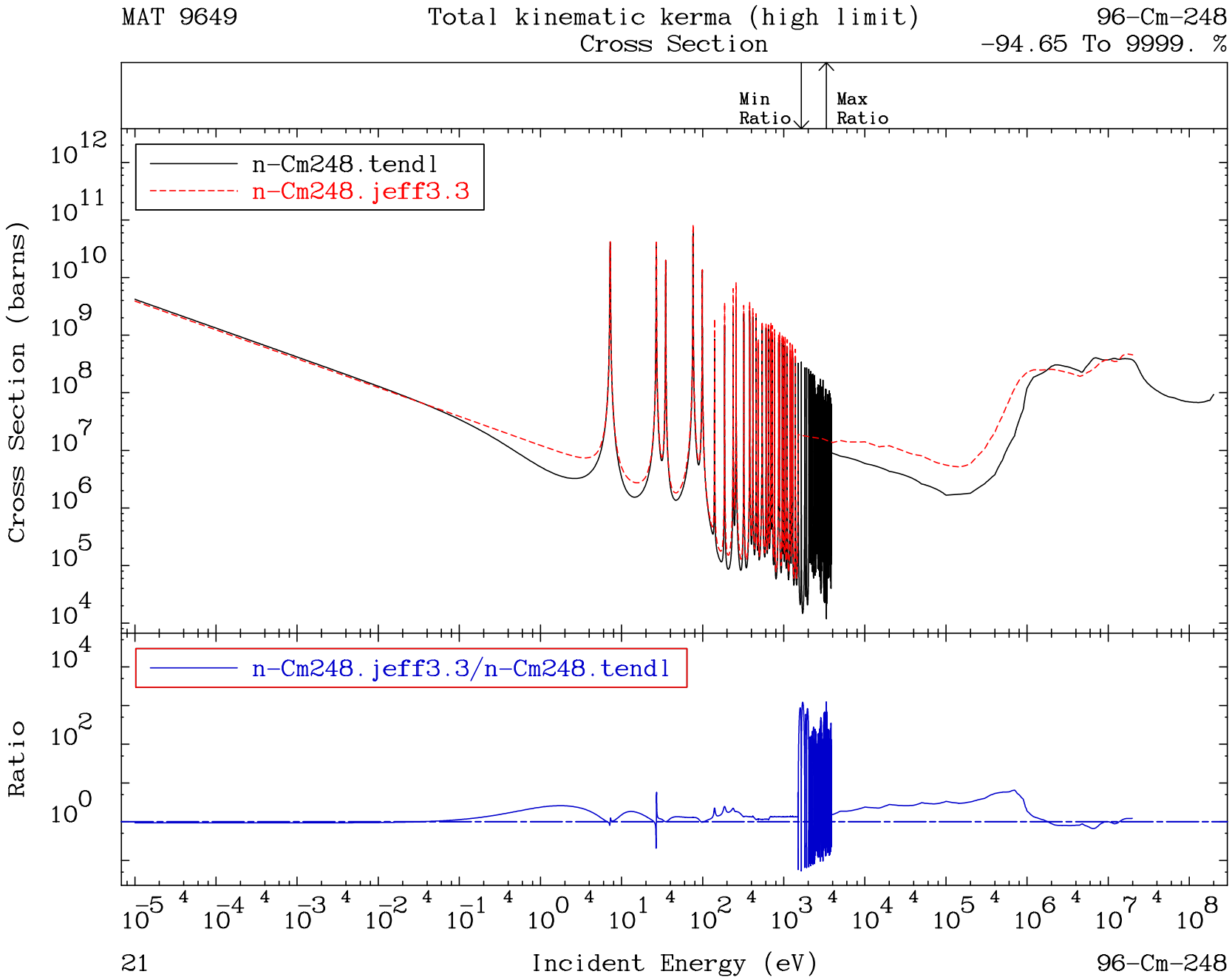

MAT 9649
Kerma non-elastic (all but mt2)
Cross Section
96-Cm-248
-94.65 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
16
96-Cm-248

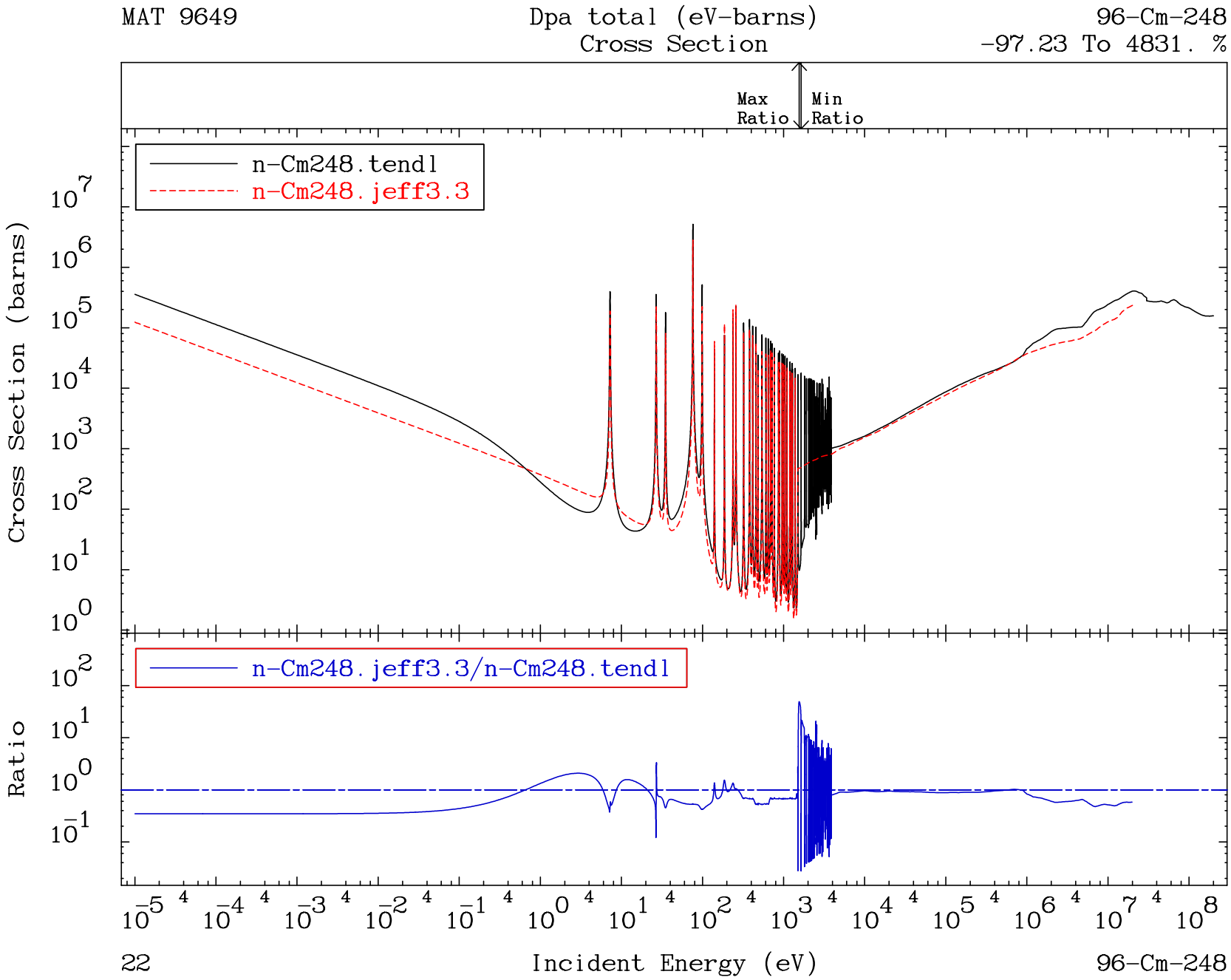

MAT 9649
Kerma inelastic (mt51-91)
Cross Section
96-Cm-248
-10.68 To 189.8 %
Max Ratio
Min Ratio
n-Cm248.tendl Threshold 43.577 keV
n-Cm248.jeff3.3 Threshold 45.182 keV
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
17
96-Cm-248

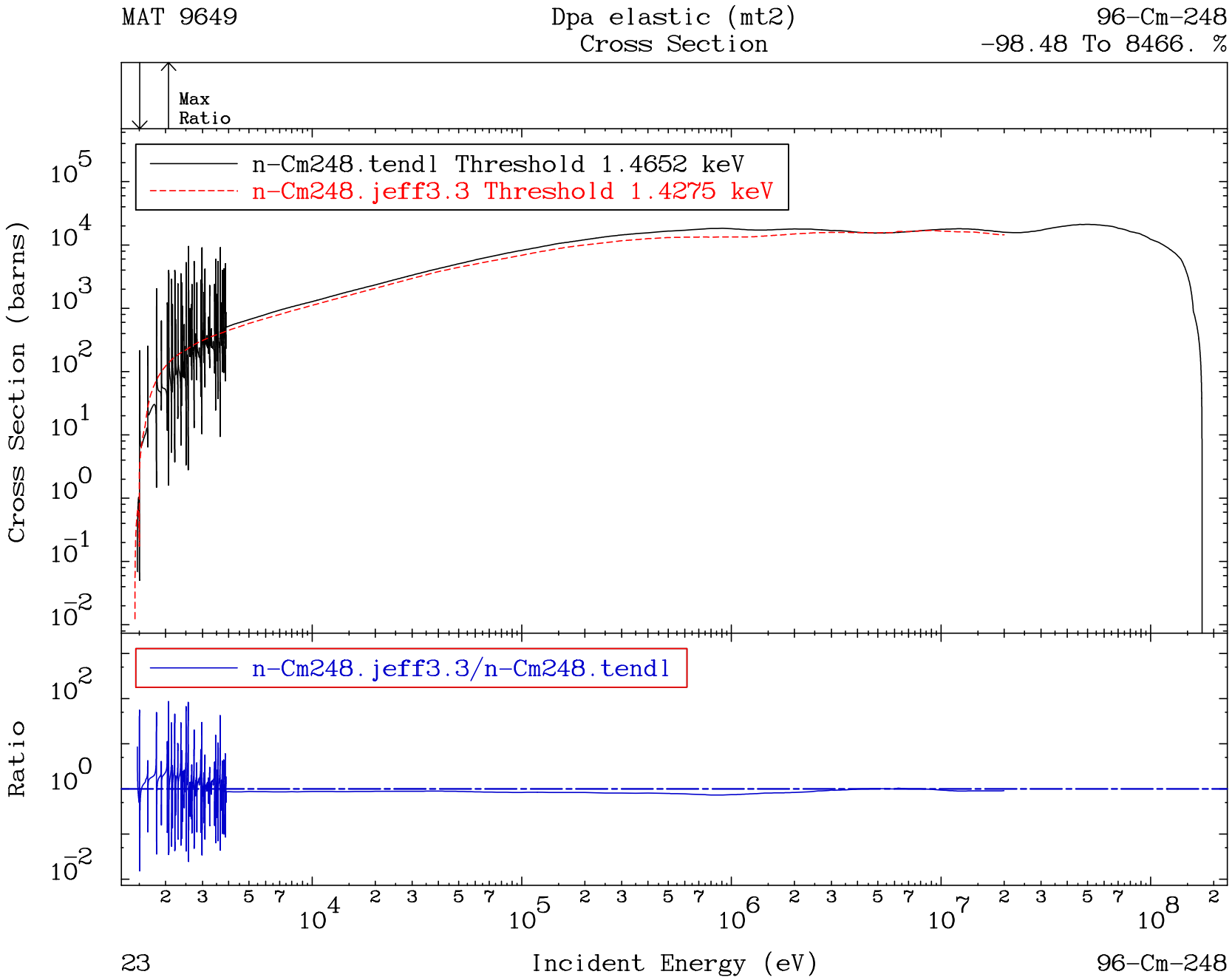

MAT 9649
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
96-Cm-248
-93.08 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
18
Incident Energy (eV)
96-Cm-248

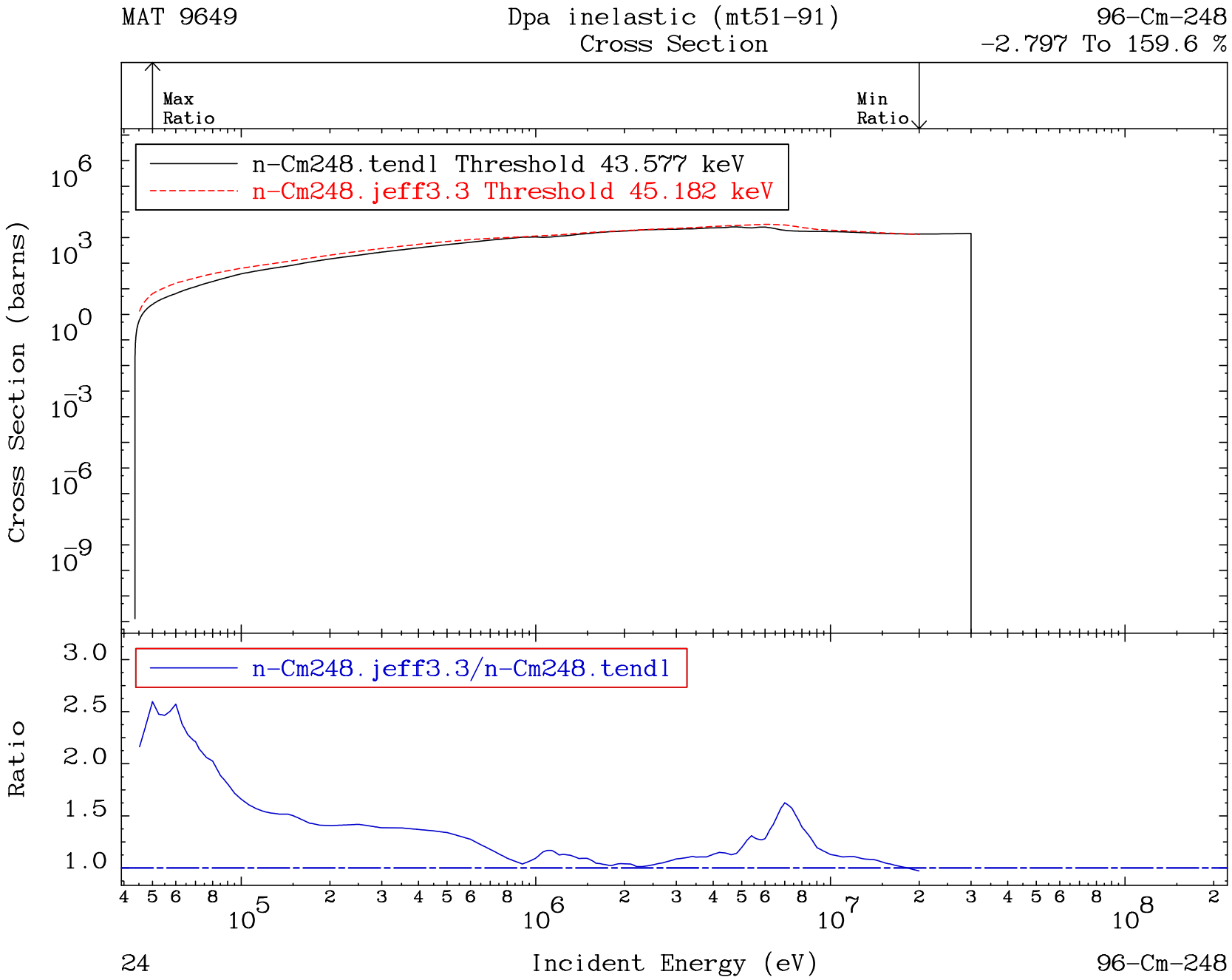

MAT 9649
Kerma capture (mt102)
Cross Section
96-Cm-248
-96.28 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
19
Incident Energy (eV)
96-Cm-248

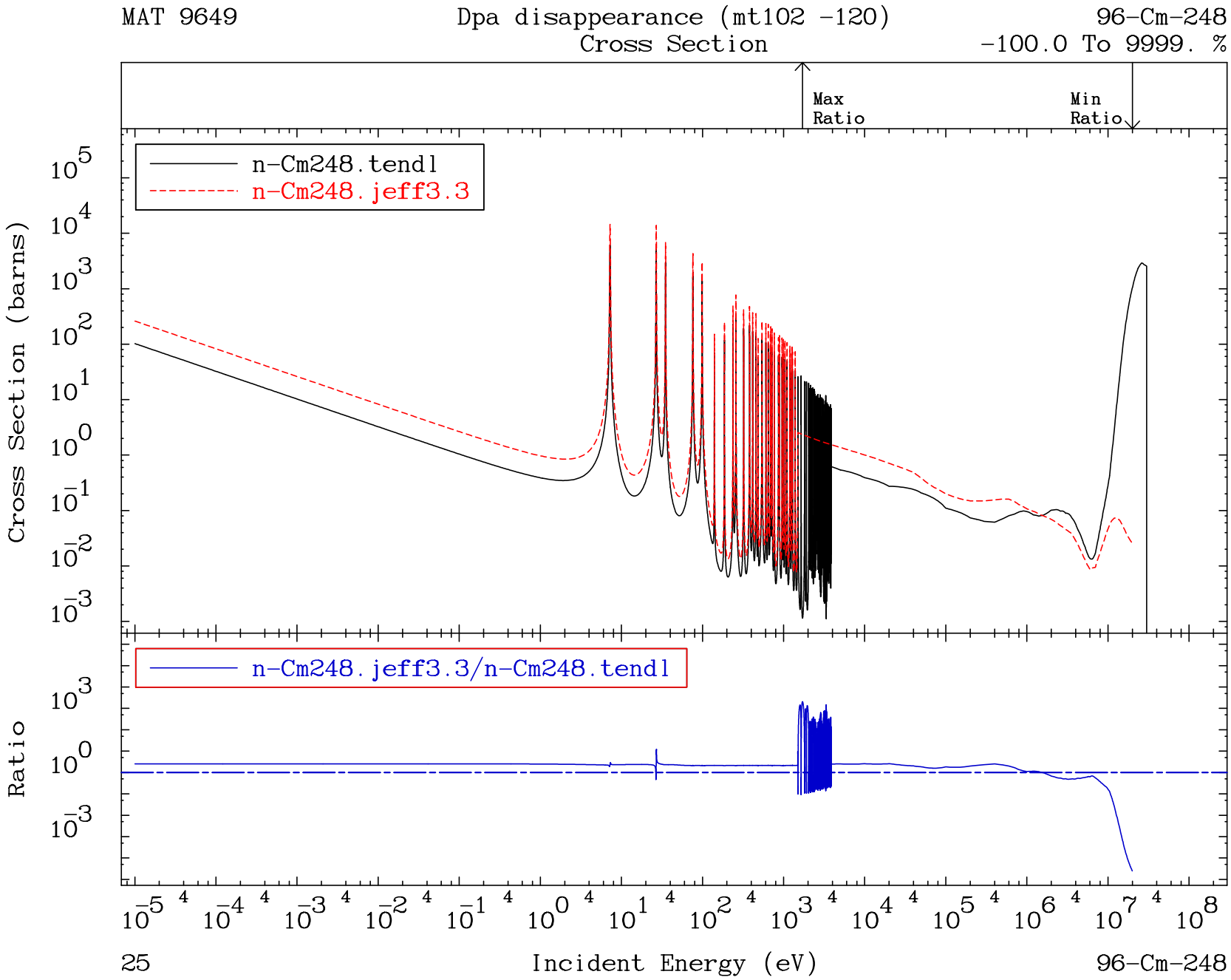

MAT 9649
Total photon (eV-barns)
Cross Section
96-Cm-248
-96.28 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
20
96-Cm-248


MAT 9649
Total kinematic kerma (high limit)
Cross Section
96-Cm-248
-94.65 To 9999. %
Min Ratio
Max Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
21
96-Cm-248


MAT 9649
Dpa total (eV-barns)
Cross Section
96-Cm-248
-97.23 To 4831. %
Max Ratio
Min Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
22
96-Cm-248


MAT 9649
Dpa elastic (mt2)
Cross Section
96-Cm-248
-98.48 To 8466. %
Max
Ratio
n-Cm248.tendl Threshold 1.4652 keV
n-Cm248.jeff3.3 Threshold 1.4275 keV
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
23
96-Cm-248


MAT 9649
Dpa inelastic (mt51-91)
Cross Section
96-Cm-248
-2.797 To 159.6 %
Max Ratio
Min Ratio
n-Cm248.tendl Threshold 43.577 keV
n-Cm248.jeff3.3 Threshold 45.182 keV
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
24
96-Cm-248


MAT 9649
Dpa disappearance (mt102 -120)
Cross Section
96-Cm-248
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Cm248.tendl
n-Cm248.jeff3.3
Cross Section (barns)
n-Cm248.jeff3.3/n-Cm248.tendl
Ratio
Incident Energy (eV)
25
96-Cm-248