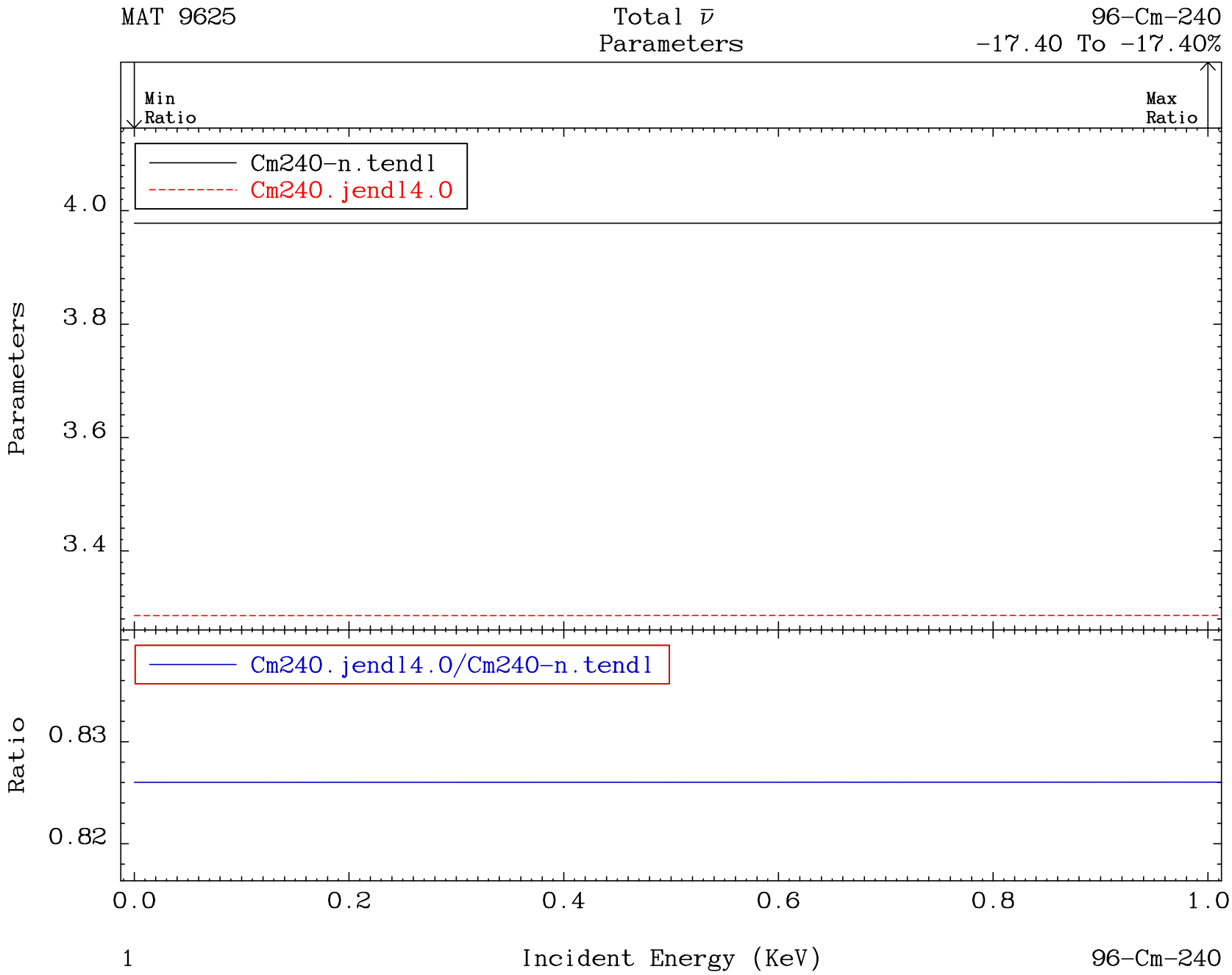
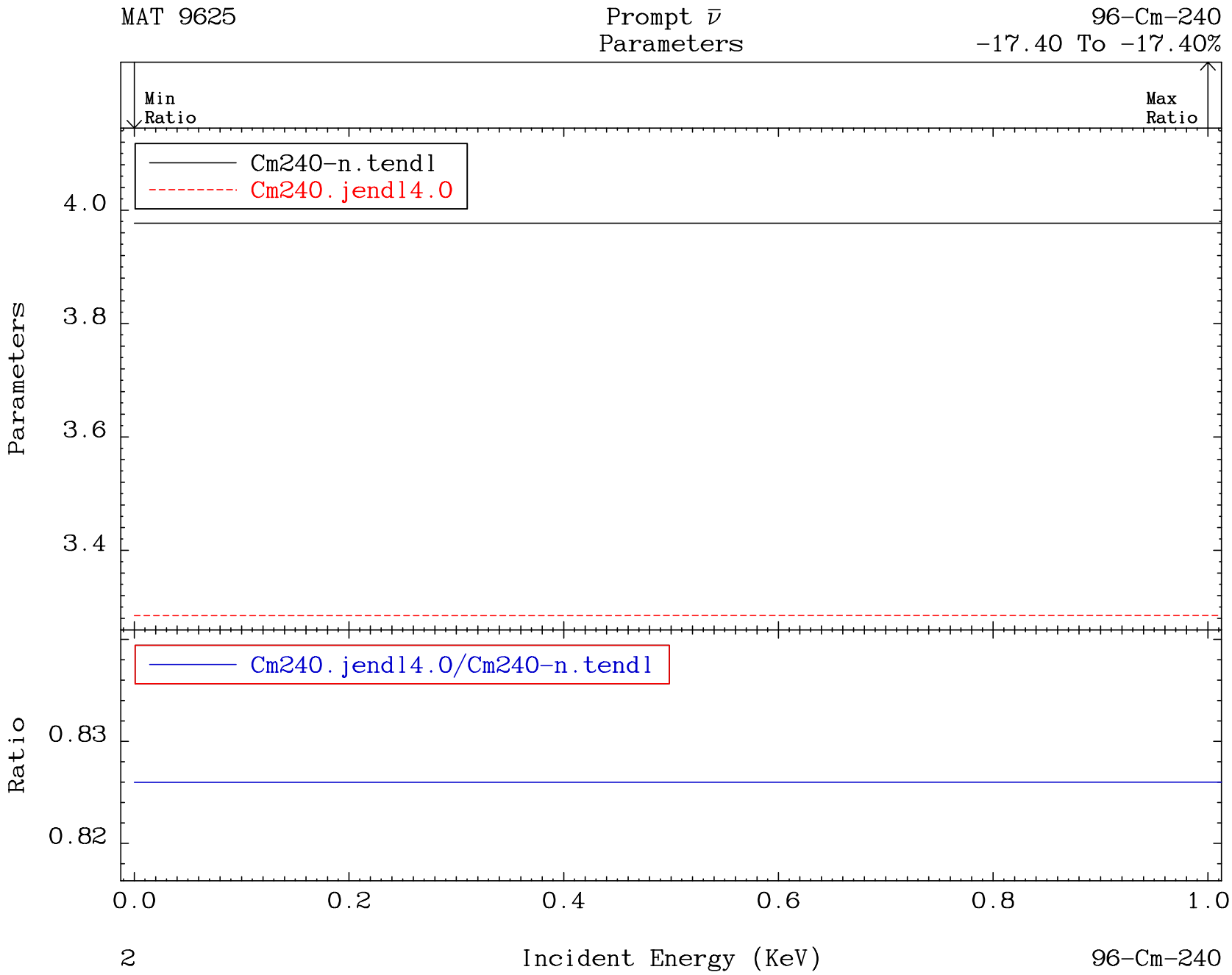
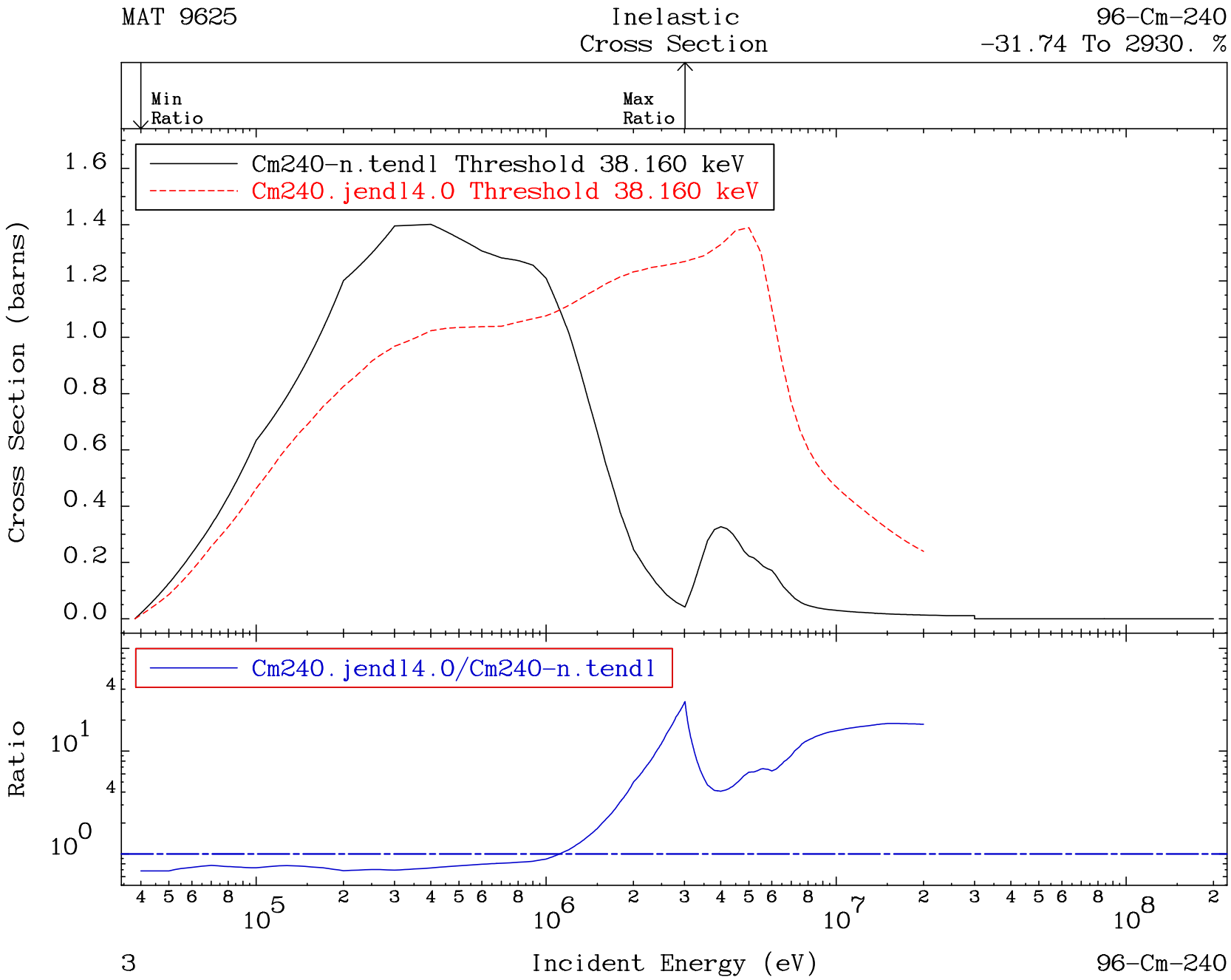
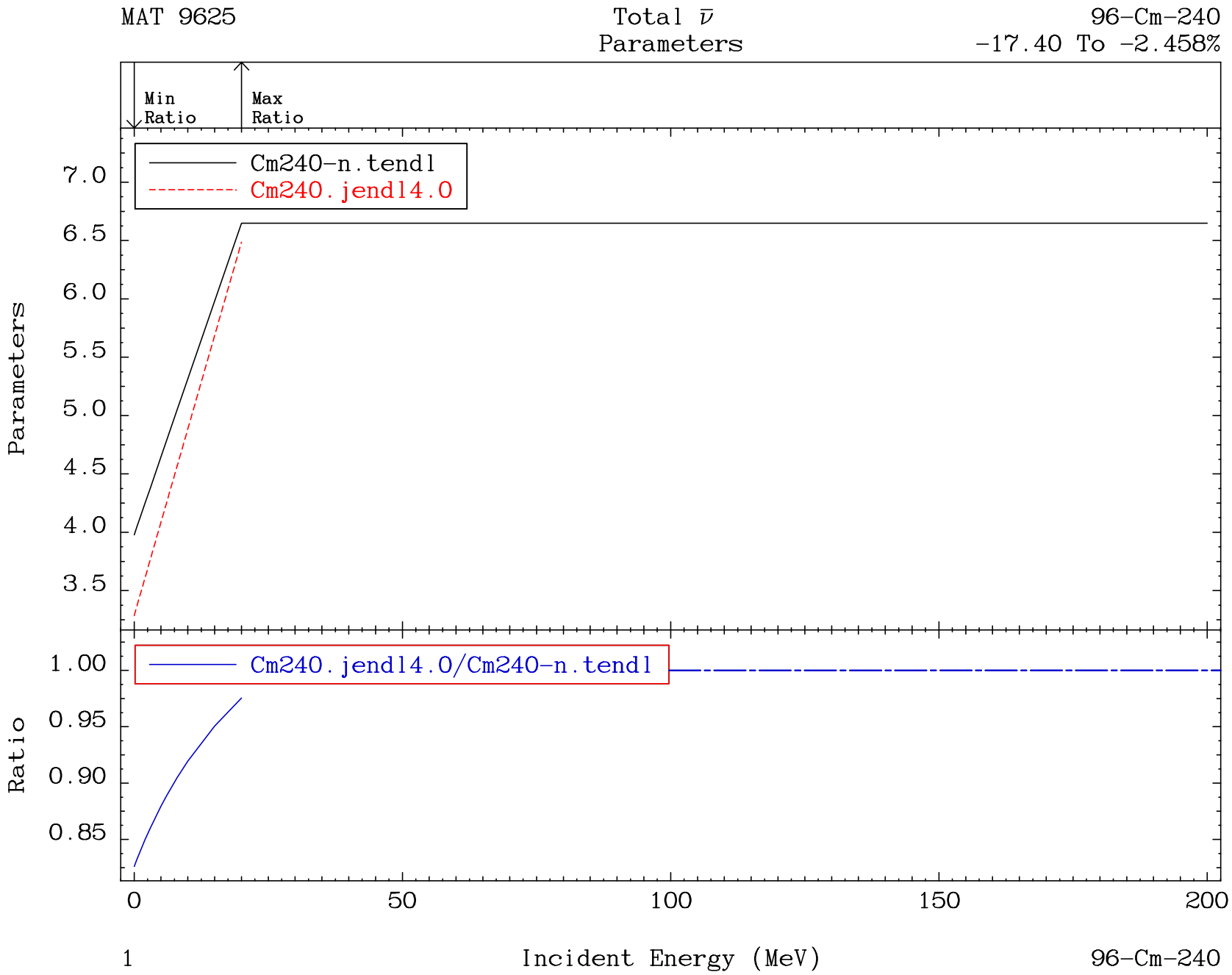
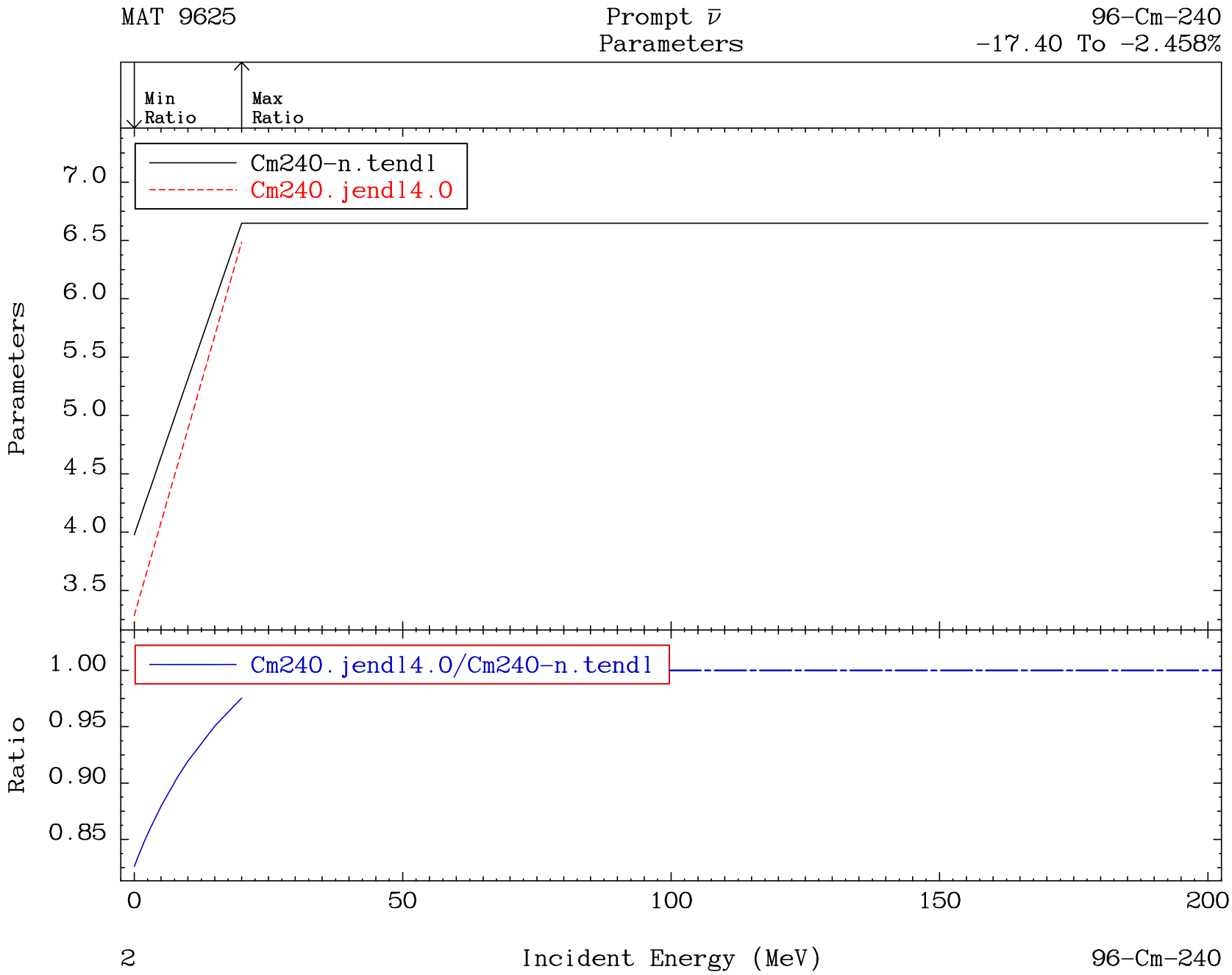
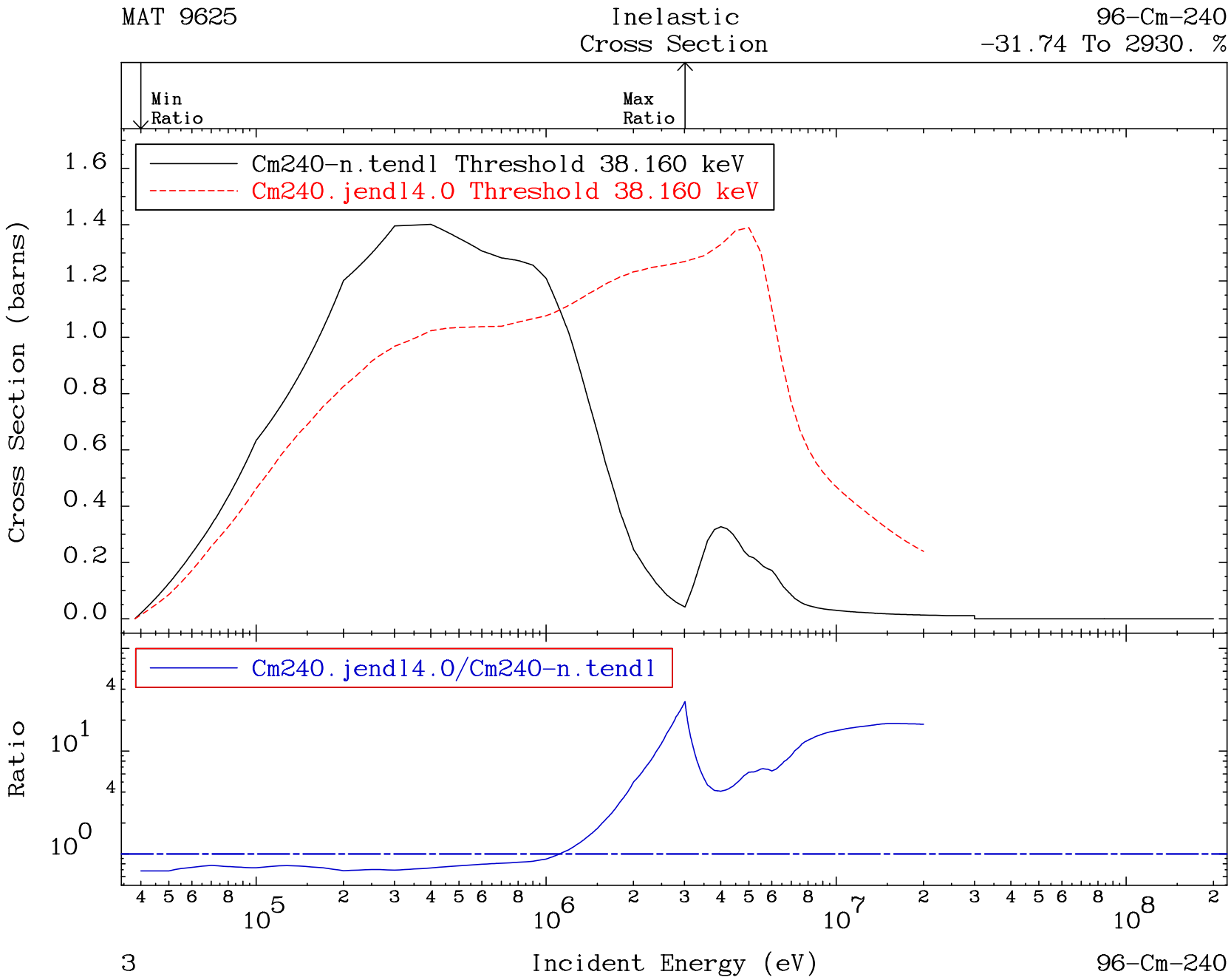

MAT 9625
Total $\bar{\nu}$
Parameters
96-Cm-240
-17.40 To -17.40%
Min
Ratio
Max
Ratio
Cm240-n.tendl
Cm240.jendl4.0
Parameters
4.0
3.8
3.6
3.4
Cm240.jendl4.0/Cm240-n.tendl
Ratio
0.83
0.82
0.0
0.2
0.4
0.6
0.8
1.0
1
Incident Energy (KeV)
96-Cm-240

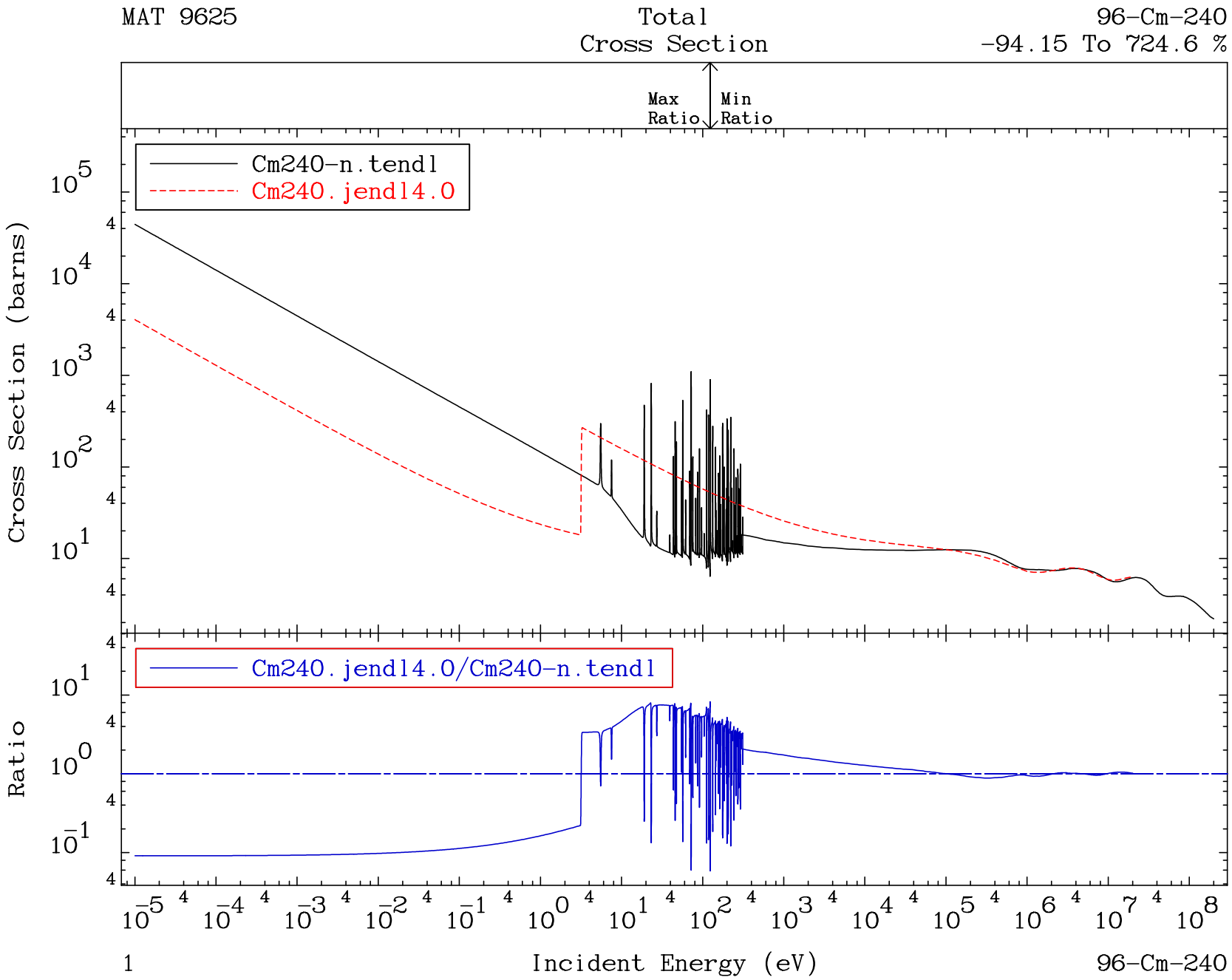

MAT 9625
Prompt $\bar{\nu}$
Parameters
96-Cm-240
-17.40 To -17.40%
Min
Ratio
Max
Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cm240.jendl4.0/Cm240-n.tendl
Parameters
Ratio
4.0
3.8
3.6
3.4
0.83
0.82
0.0
0.2
0.4
0.6
0.8
1.0
2
Incident Energy (KeV)
96-Cm-240

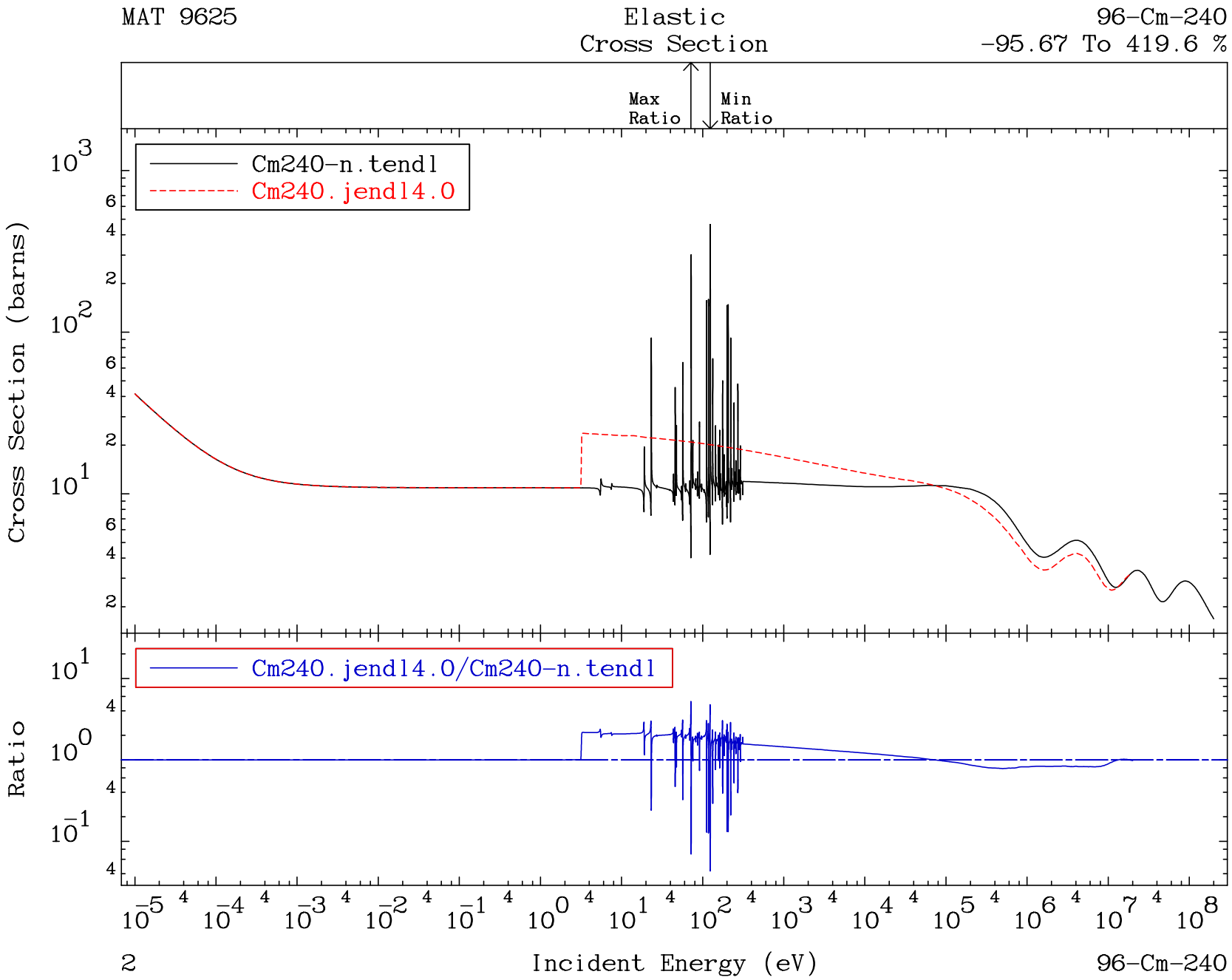

MAT 9625
Inelastic
Cross Section
96-Cm-240
-31.74 To 2930. %
Min
Ratio
Max
Ratio
Cm240-n.tendl Threshold 38.160 keV
Cm240.jendl4.0 Threshold 38.160 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
4
10^1
4
10^0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
96-Cm-240

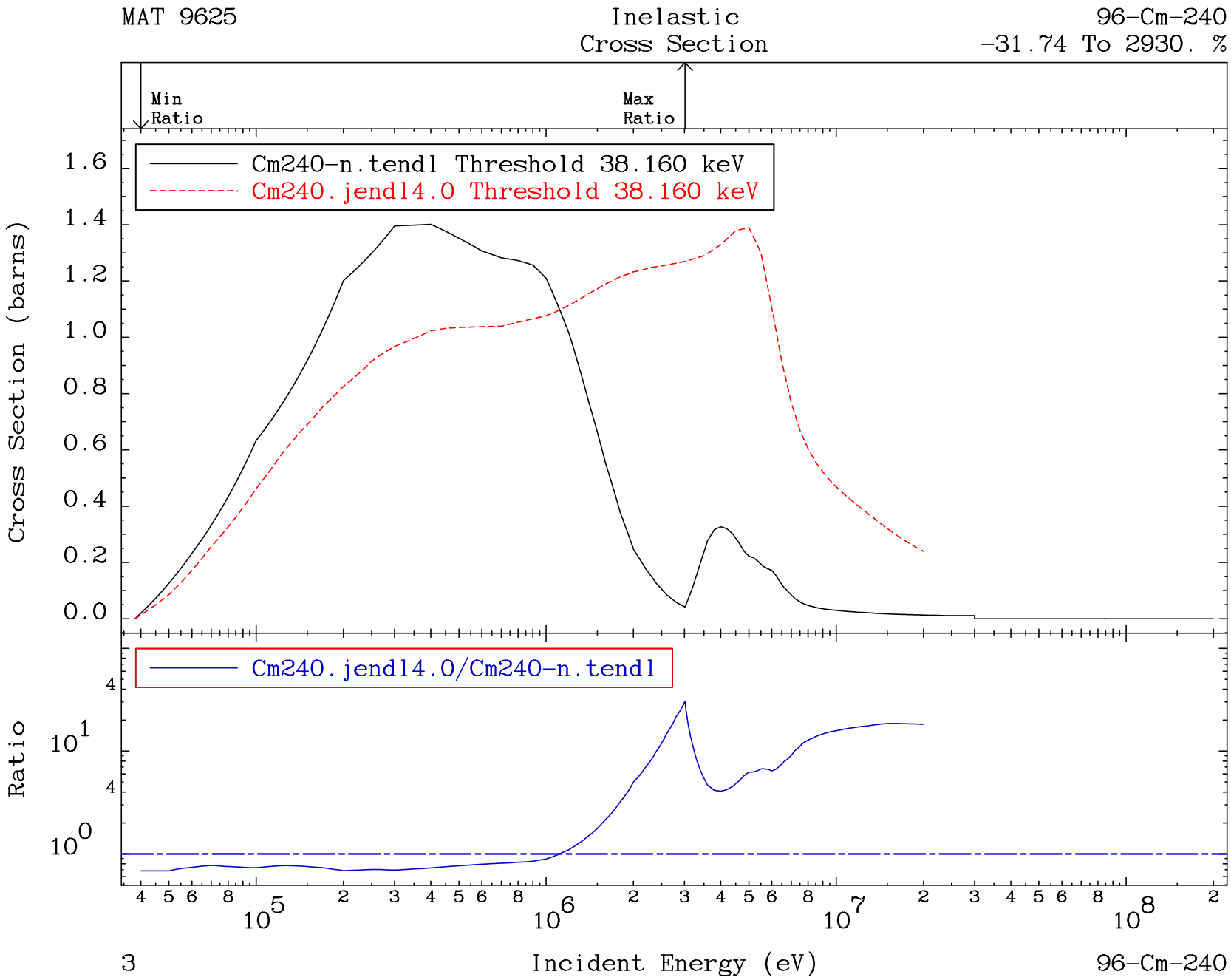

MAT 9625
Total $\bar{\nu}$
Parameters
96-Cm-240
-17.40 To -2.458%
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Parameters
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
Cm240.jendl4.0/Cm240-n.tendl
Ratio
1.00
0.95
0.90
0.85
0
50
100
150
200
1
Incident Energy (MeV)
96-Cm-240

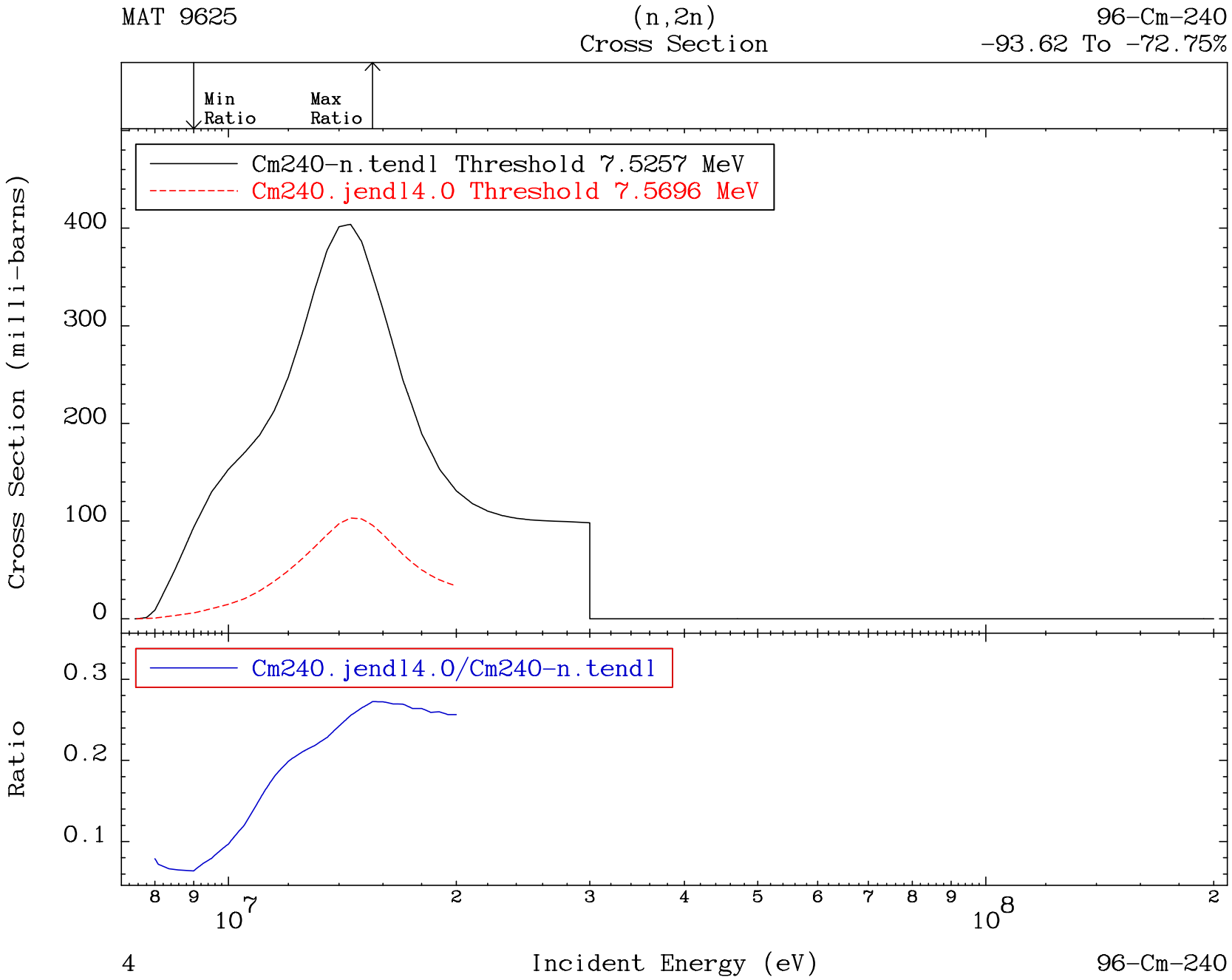

MAT 9625
Prompt $\bar{\nu}$
Parameters
96-Cm-240
-17.40 To -2.458%
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Parameters
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
Cm240.jendl4.0/Cm240-n.tendl
Ratio
1.00
0.95
0.90
0.85
0
50
100
150
200
2
Incident Energy (MeV)
96-Cm-240

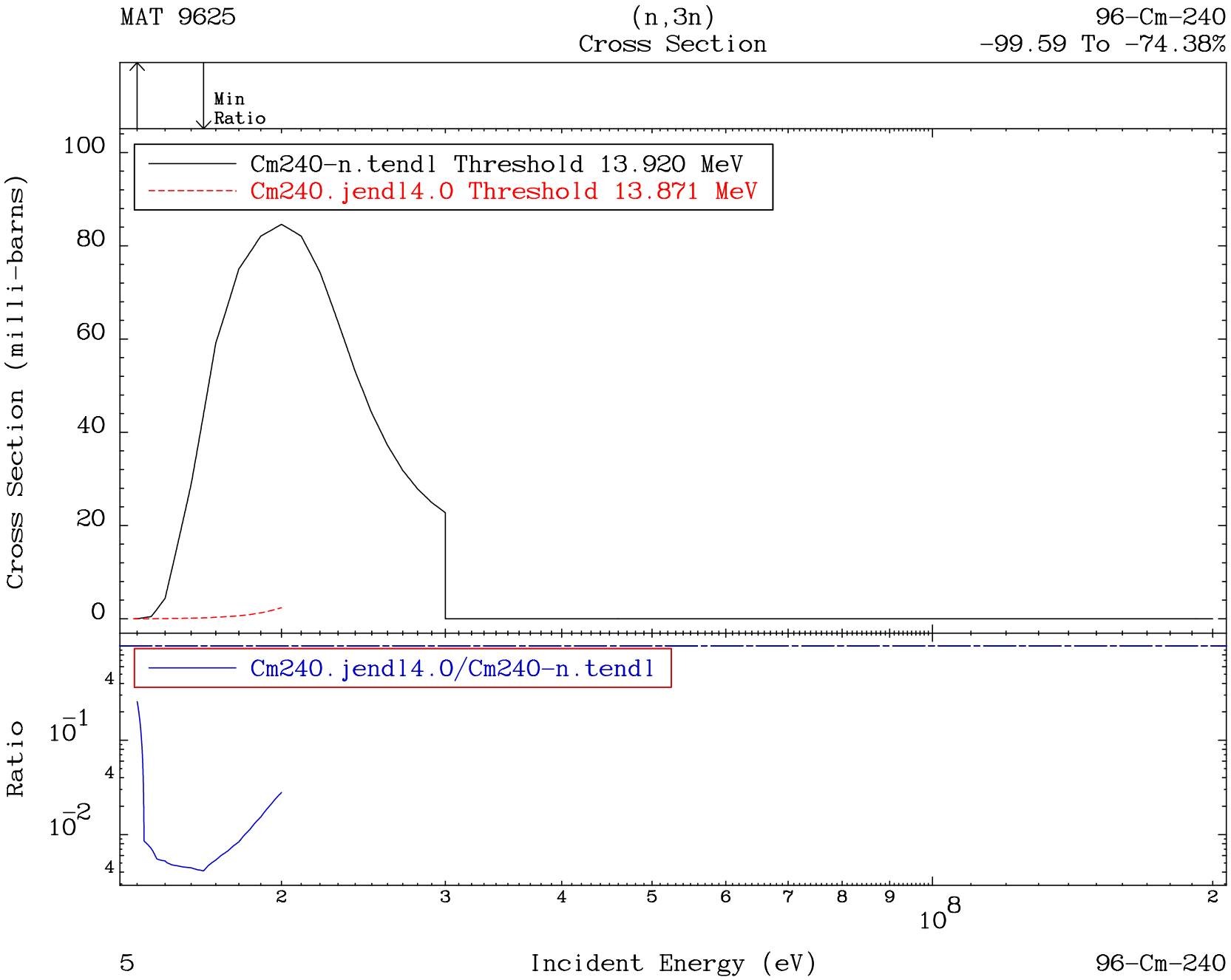

MAT 9625
Inelastic
Cross Section
96-Cm-240
-31.74 To 2930. %
Min
Ratio
Max
Ratio
Cm240-n.tendl Threshold 38.160 keV
Cm240.jendl4.0 Threshold 38.160 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
4
10^1
4
10^0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
96-Cm-240

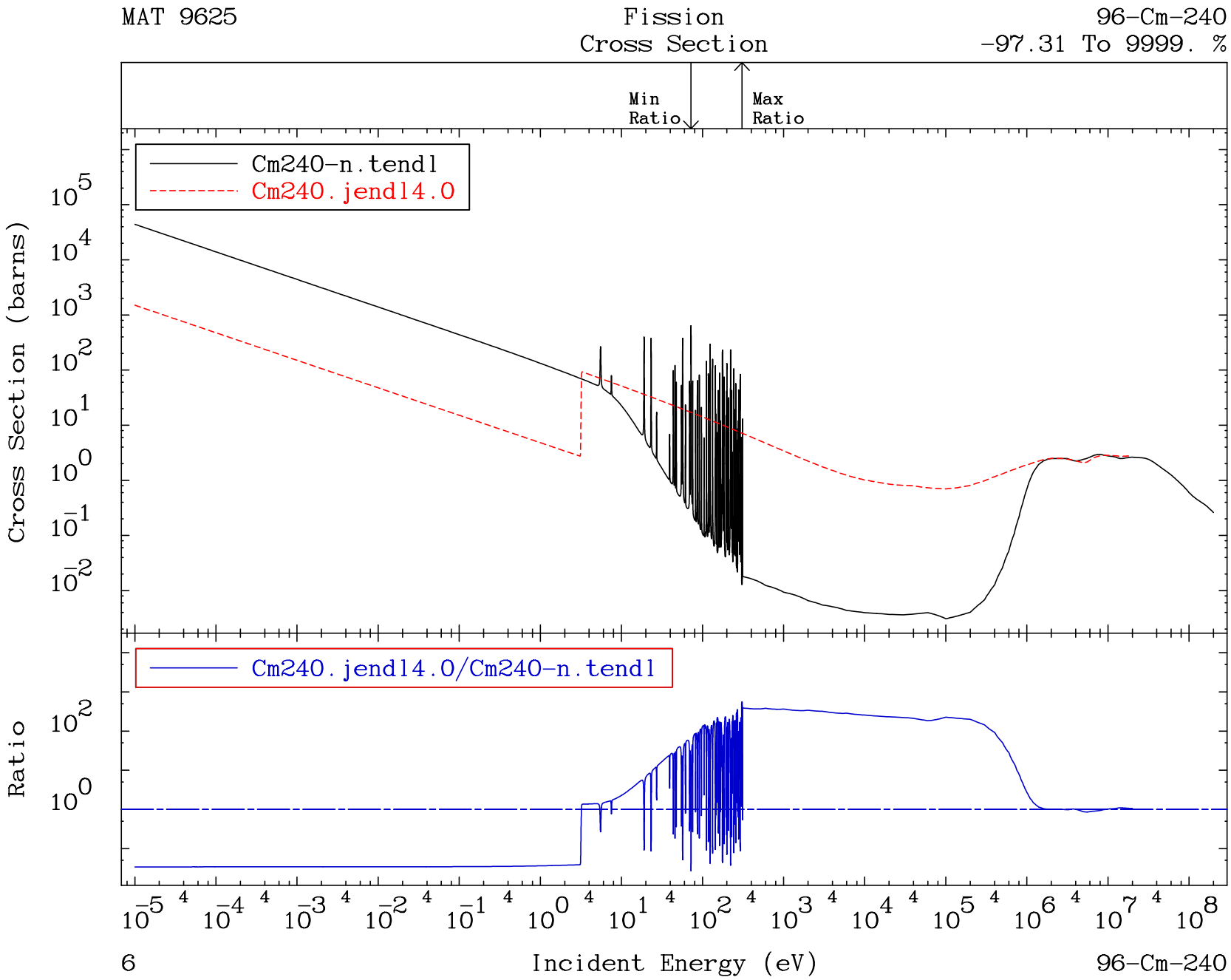

MAT 9625
Total
Cross Section
96-Cm-240
-94.15 To 724.6 %
Max Ratio
Min Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
96-Cm-240
1

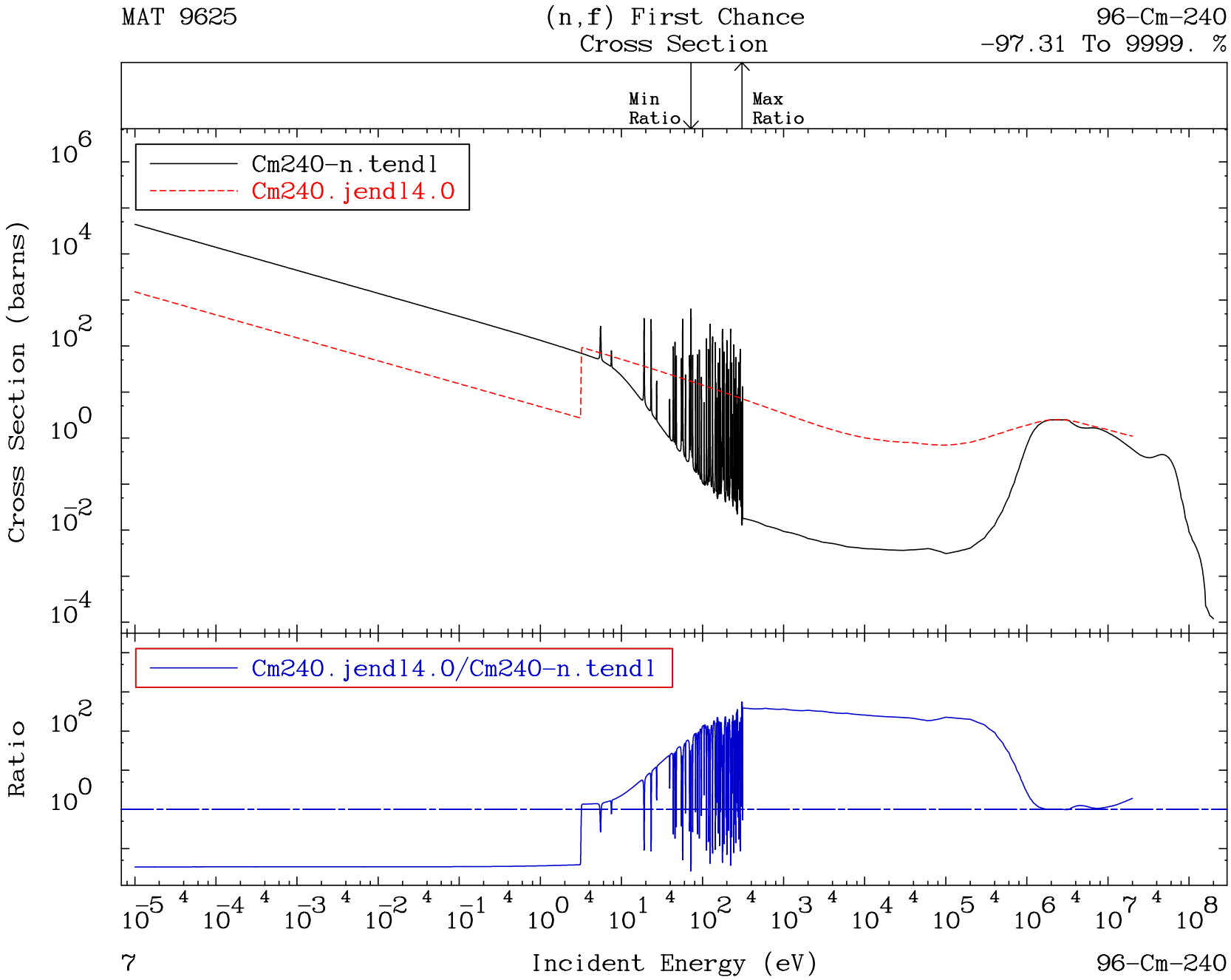

MAT 9625
Elastic
Cross Section
96-Cm-240
-95.67 To 419.6 %
Max
Ratio
Min
Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
2
96-Cm-240

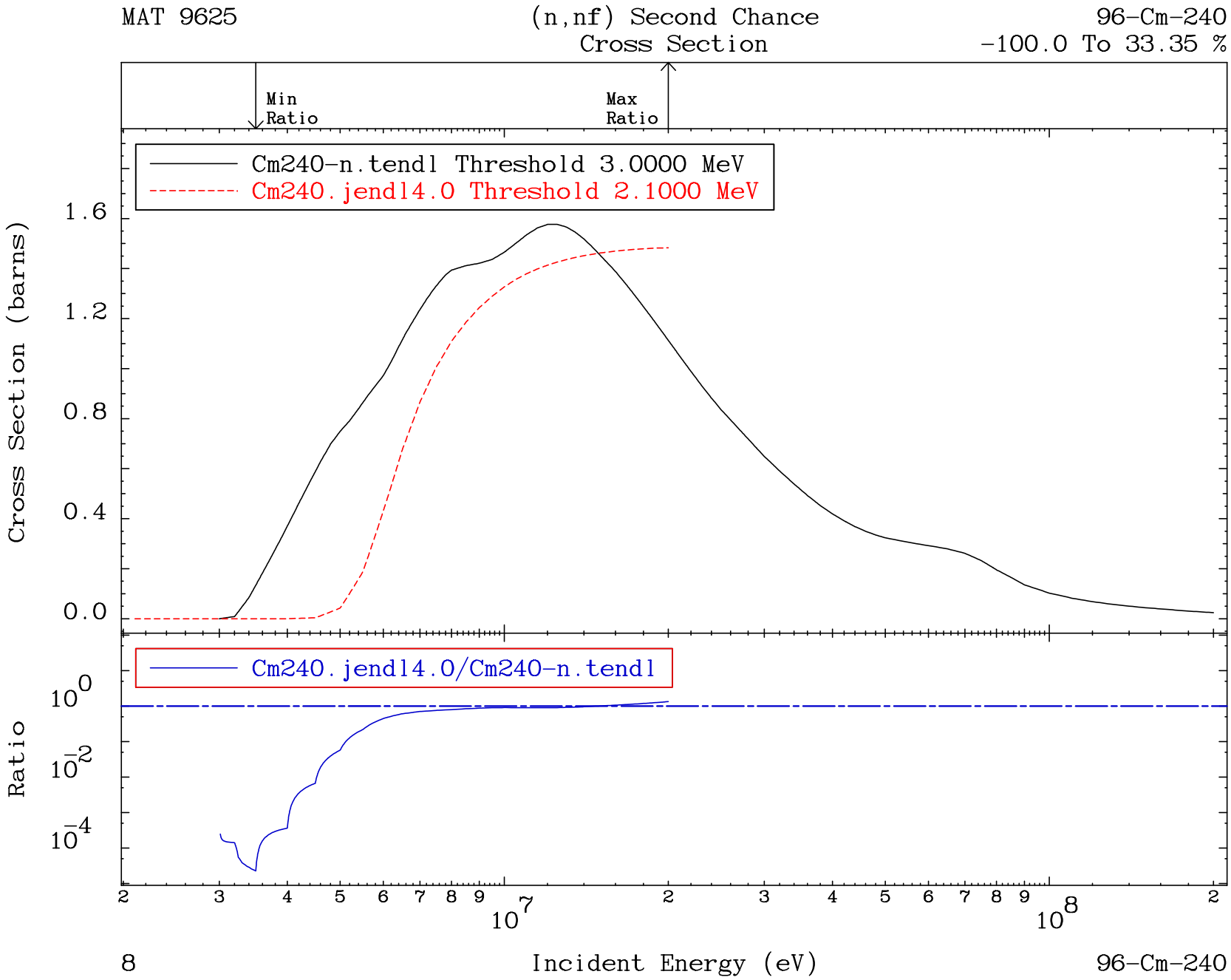

MAT 9625
Inelastic
Cross Section
96-Cm-240
-31.74 To 2930. %
Min
Ratio
Max
Ratio
Cm240-n.tendl Threshold 38.160 keV
Cm240.jendl4.0 Threshold 38.160 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
4
10^1
4
10^0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
96-Cm-240

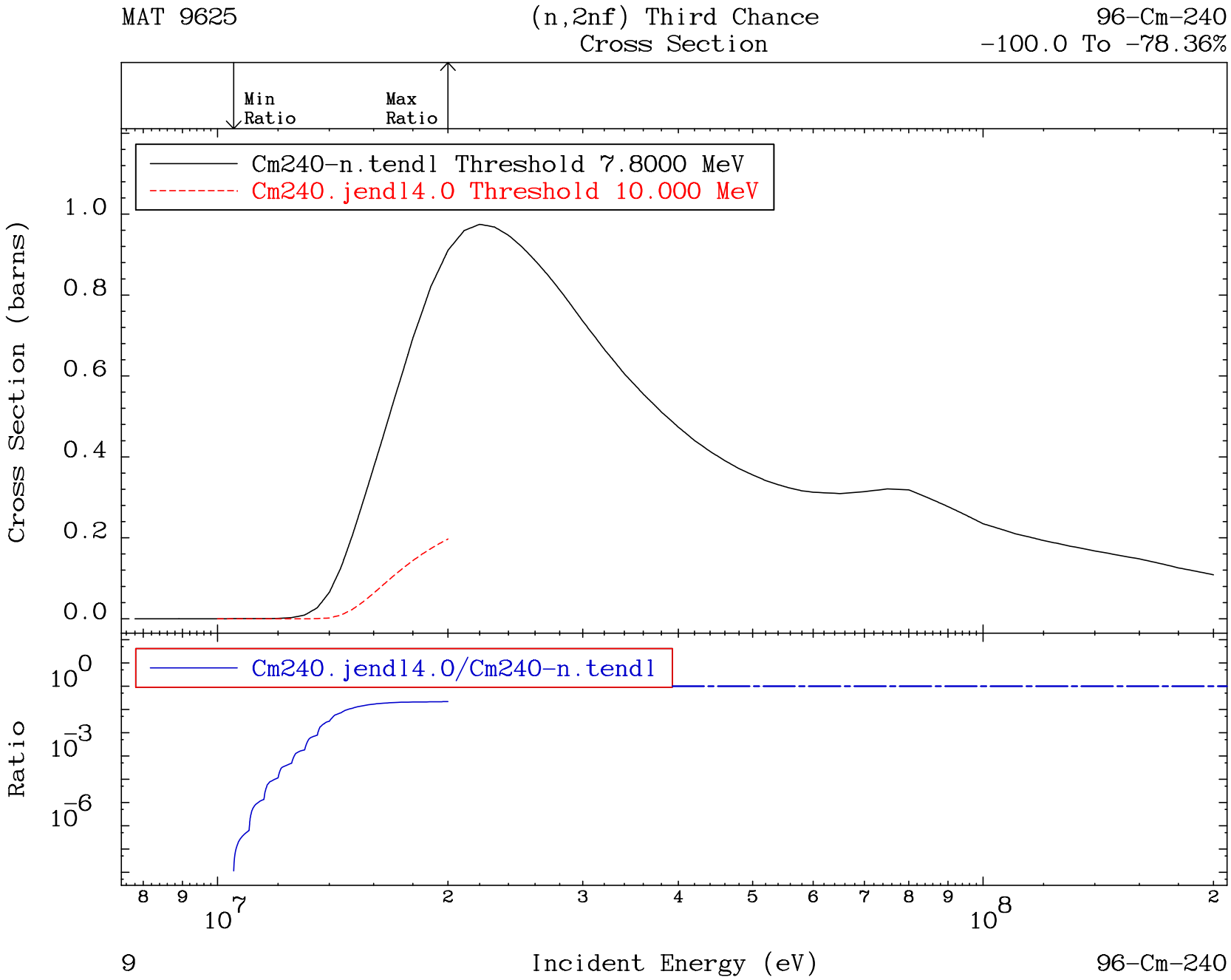

MAT 9625
(n,2n)
Cross Section
96-Cm-240
-93.62 To -72.75%
Min Ratio
Max Ratio
Cm240-n.tendl Threshold 7.5257 MeV
Cm240.jendl4.0 Threshold 7.5696 MeV
Cross Section (milli-barns)
400
300
200
100
0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
0.3
0.2
0.1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
96-Cm-240

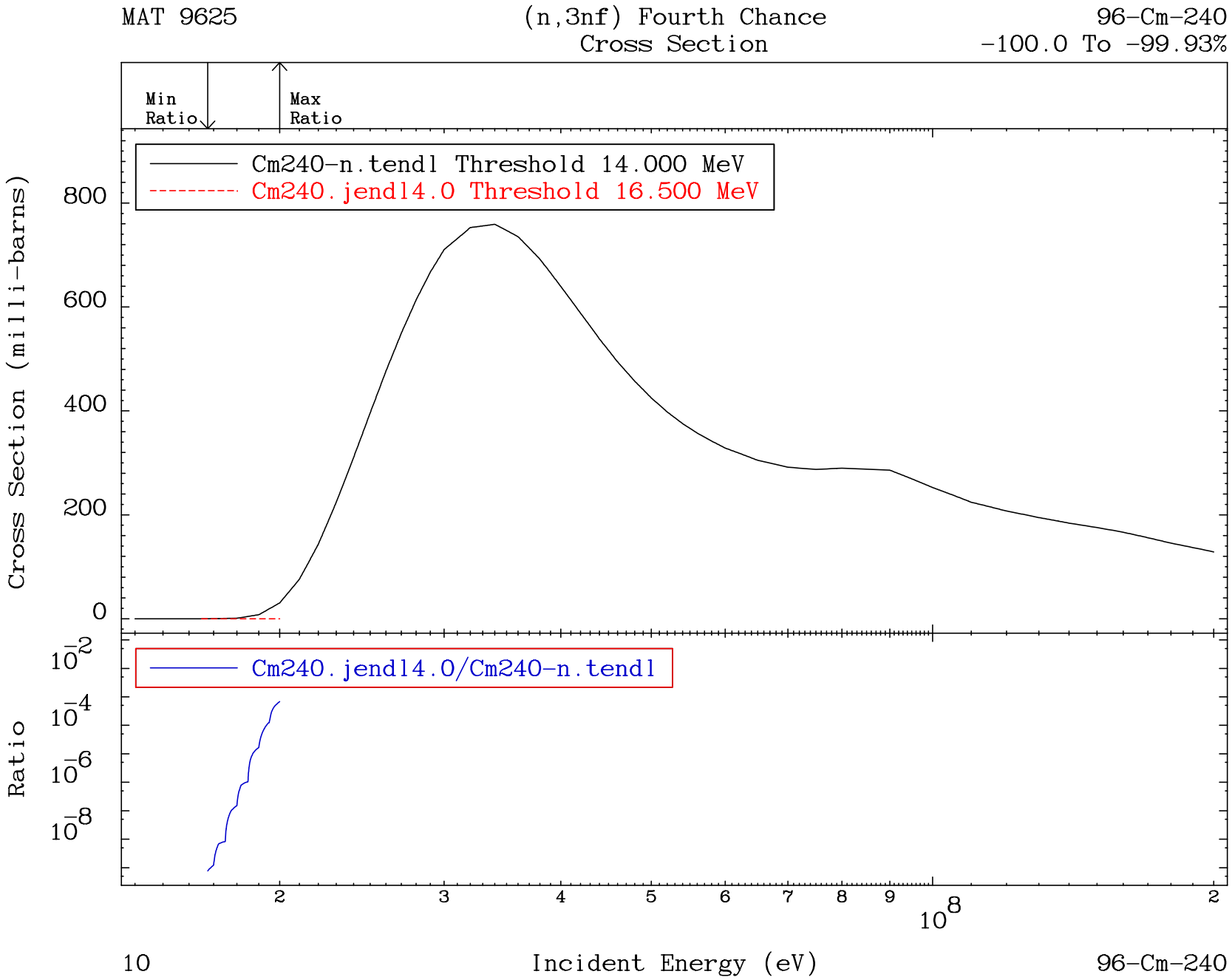

MAT 9625
(n,3n)
Cross Section
96-Cm-240
-99.59 To -74.38%
Min
Ratio
Cm240-n.tendl Threshold 13.920 MeV
Cm240.jendl4.0 Threshold 13.871 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10-1
10-2
2
3
4
5
6
7
8
9
10^8
5
Incident Energy (eV)
96-Cm-240

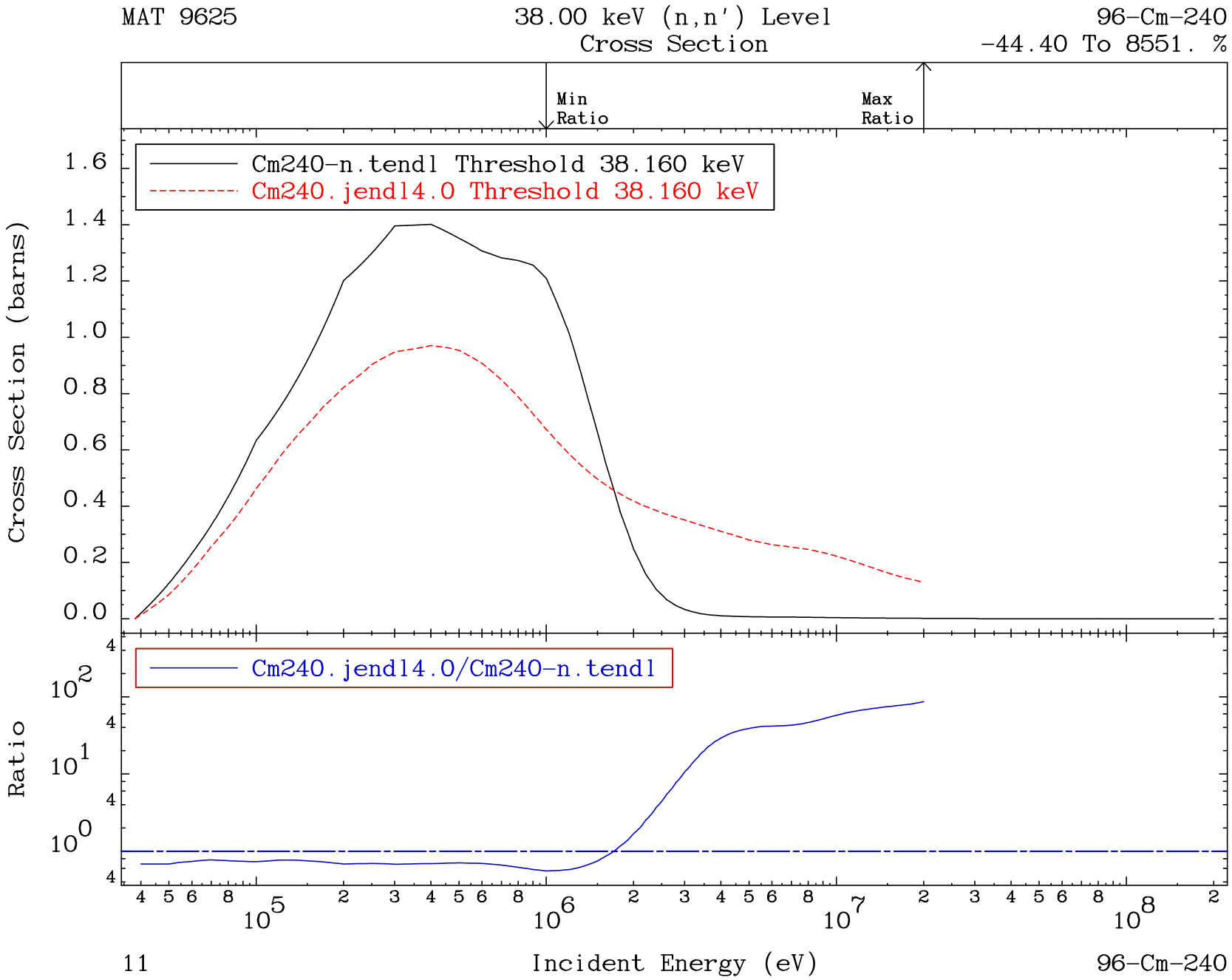

MAT 9625
Fission
Cross Section
96-Cm-240
-97.31 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
6
96-Cm-240

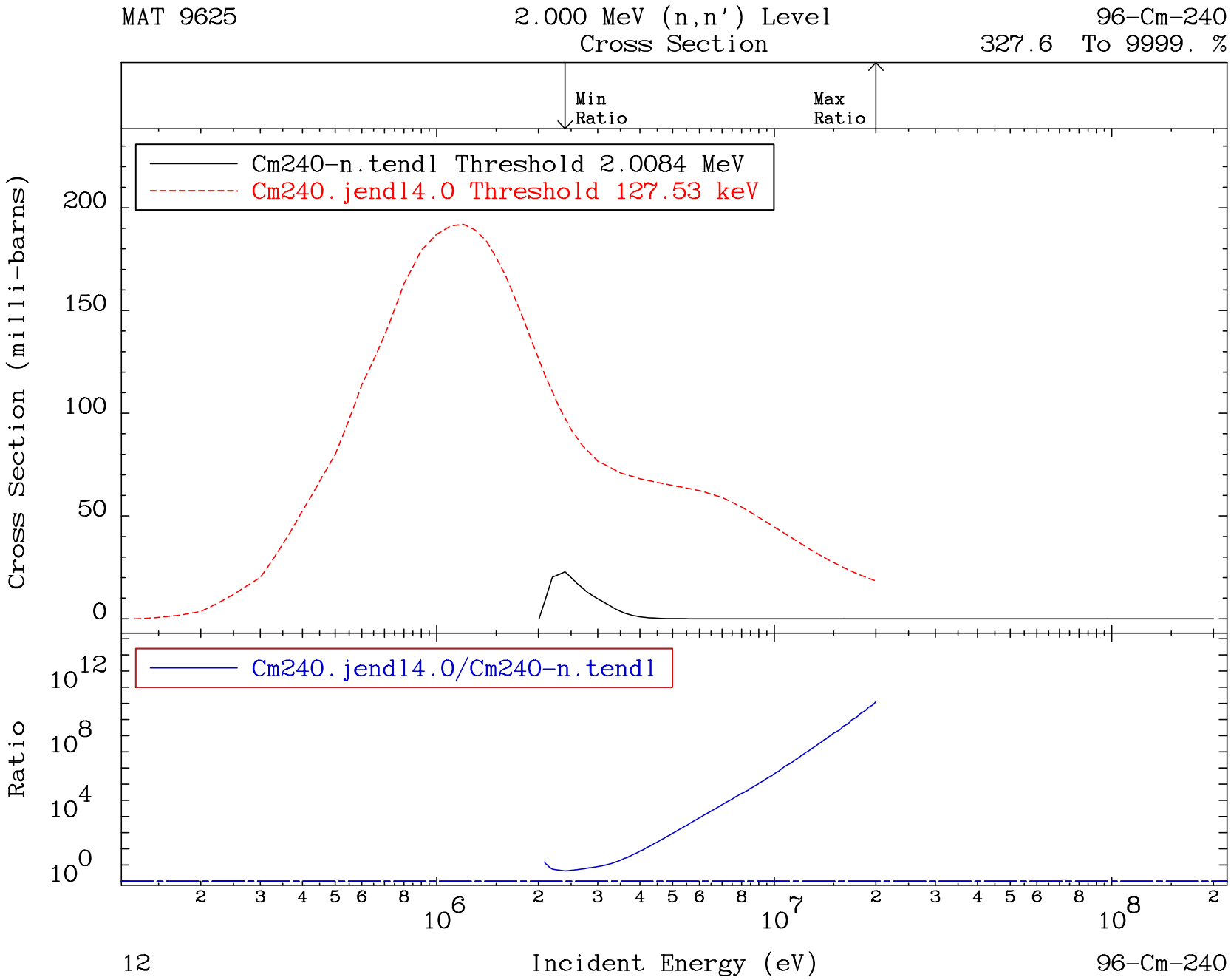

MAT 9625
(n,f) First Chance
Cross Section
96-Cm-240
-97.31 To 9999. %
Min
Ratio
Max
Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
96-Cm-240
7

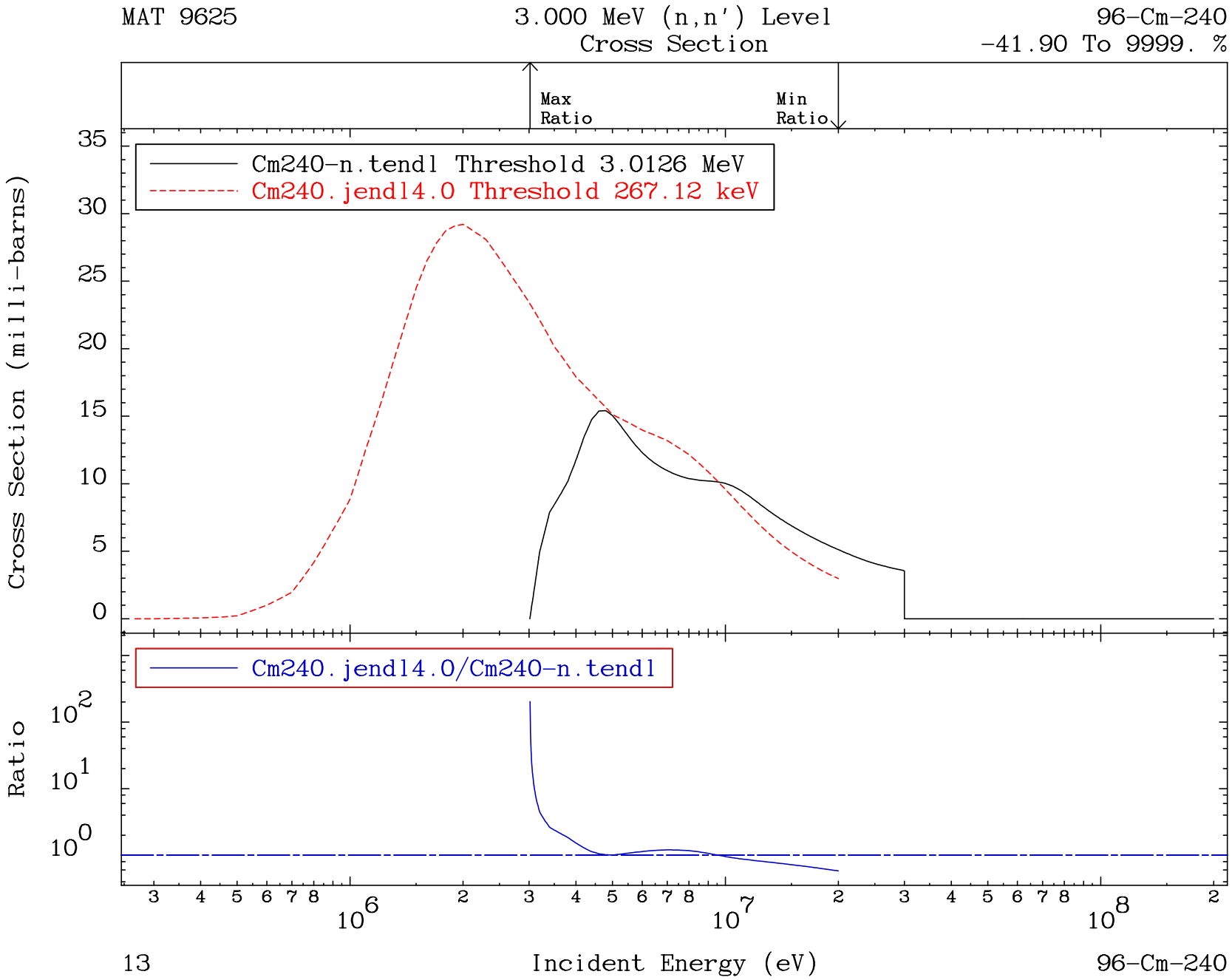

MAT 9625
(n,nf) Second Chance
Cross Section
96-Cm-240
-100.0 To 33.35 %
Min
Ratio
Max
Ratio
Cm240-n.tendl Threshold 3.0000 MeV
Cm240.jendl4.0 Threshold 2.1000 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
96-Cm-240

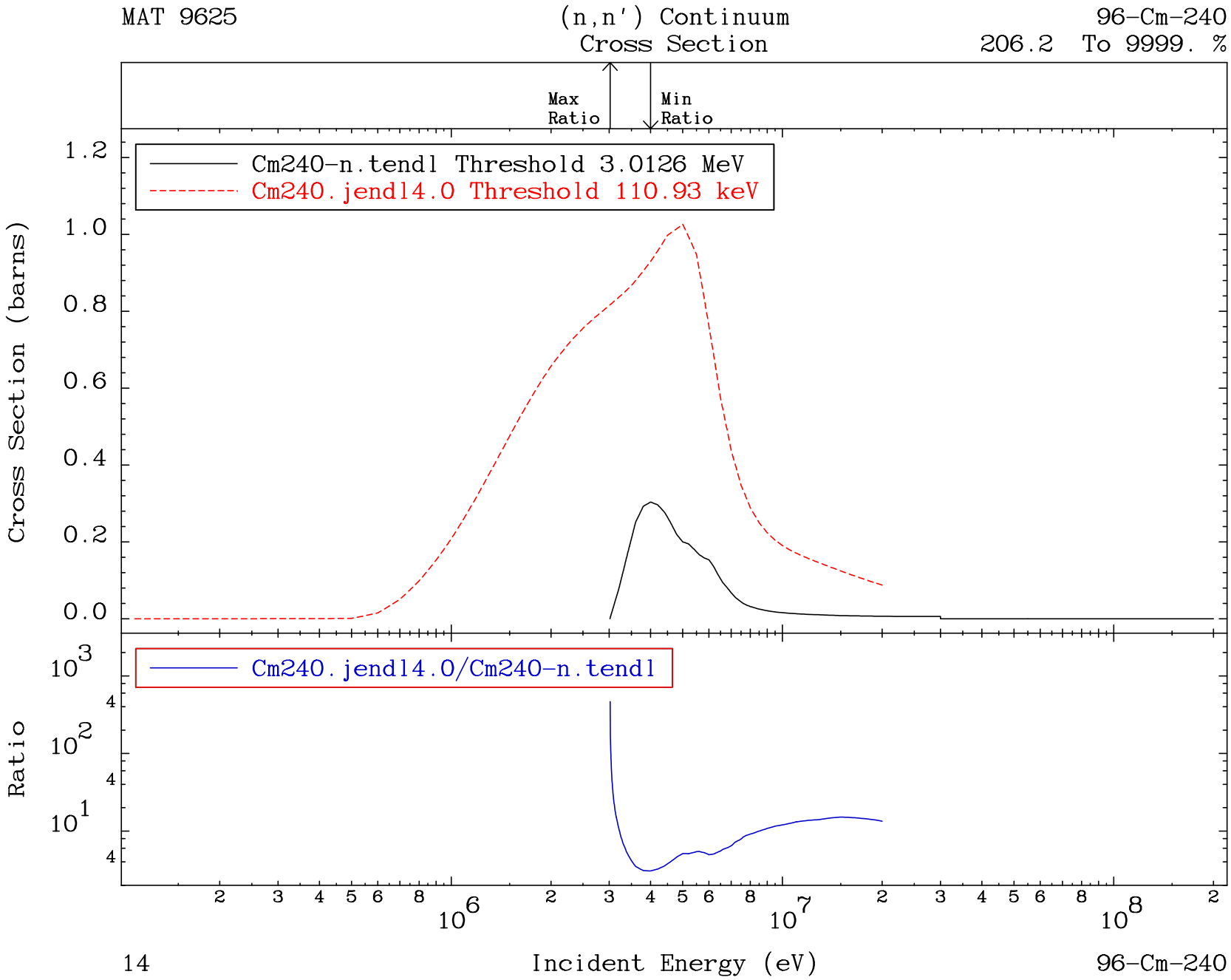

MAT 9625
(n,2nf) Third Chance
Cross Section
96-Cm-240
-100.0 To -78.36%
Min
Ratio
Max
Ratio
Cm240-n.tendl Threshold 7.8000 MeV
Cm240.jendl4.0 Threshold 10.000 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^0
10^-3
10^-6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
96-Cm-240

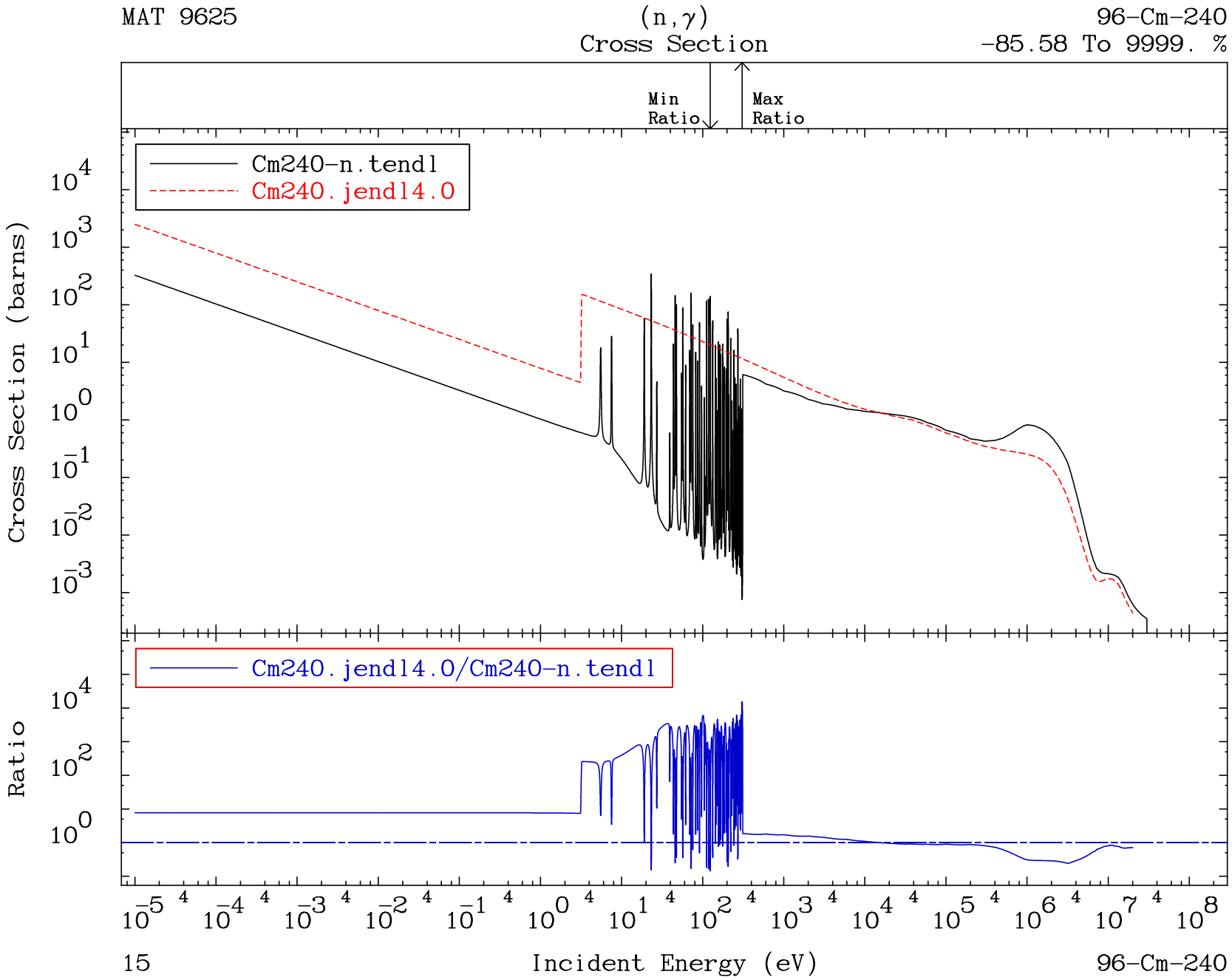

MAT 9625
(n,3nf) Fourth Chance
Cross Section
96-Cm-240
-100.0 To -99.93%
Min Ratio
Max Ratio
Cm240-n.tendl Threshold 14.000 MeV
Cm240.jendl4.0 Threshold 16.500 MeV
Cross Section (milli-barns)
800
600
400
200
0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^-2
10^-4
10^-6
10^-8
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
96-Cm-240

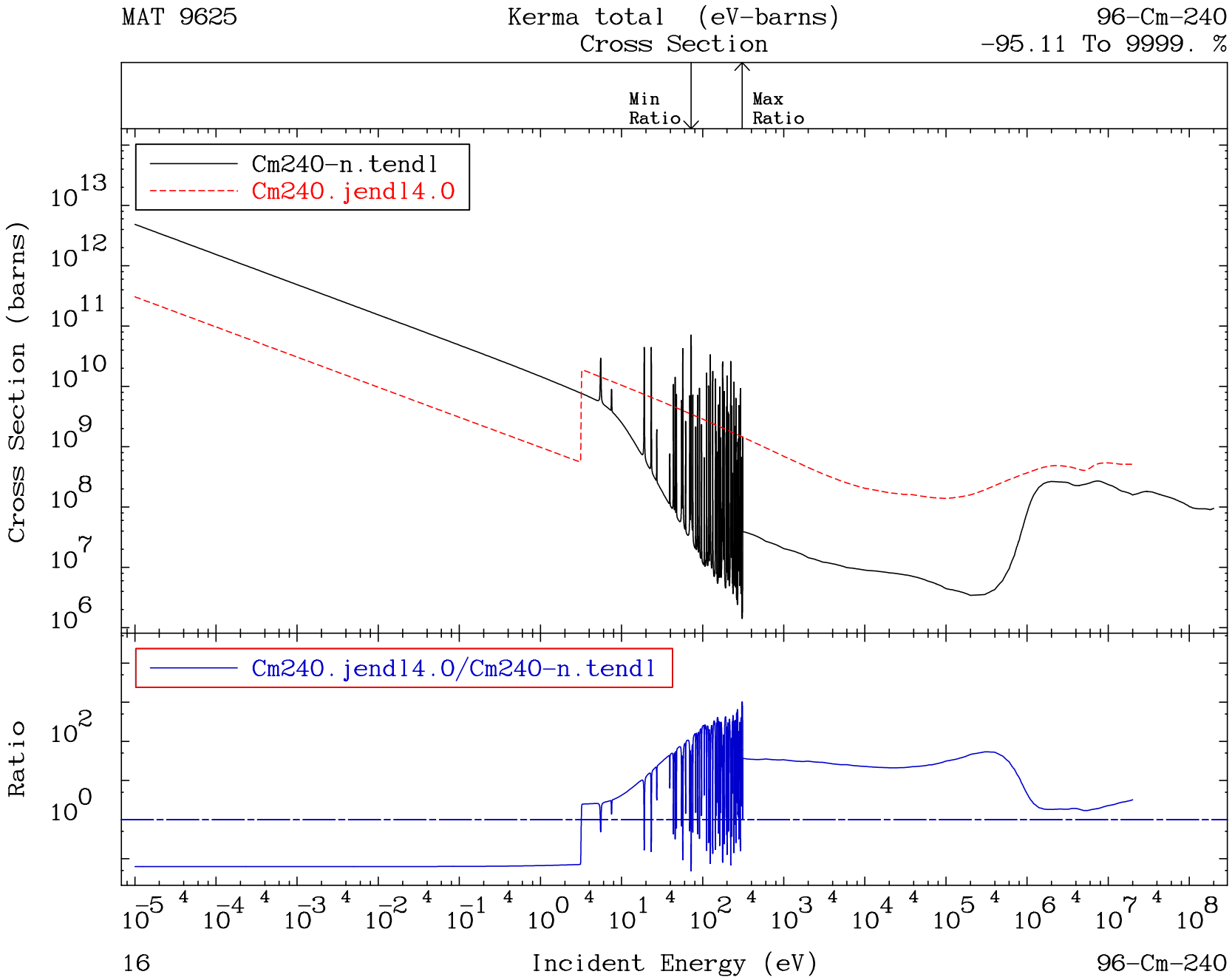

MAT 9625
38.00 keV (n,n') Level
Cross Section
96-Cm-240
-44.40 To 8551. %
Min
Ratio
Max
Ratio
Cm240-n.tendl Threshold 38.160 keV
Cm240.jendl4.0 Threshold 38.160 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^2
10^1
10^0
10^5
10^6
10^7
10^8
11
Incident Energy (eV)
96-Cm-240

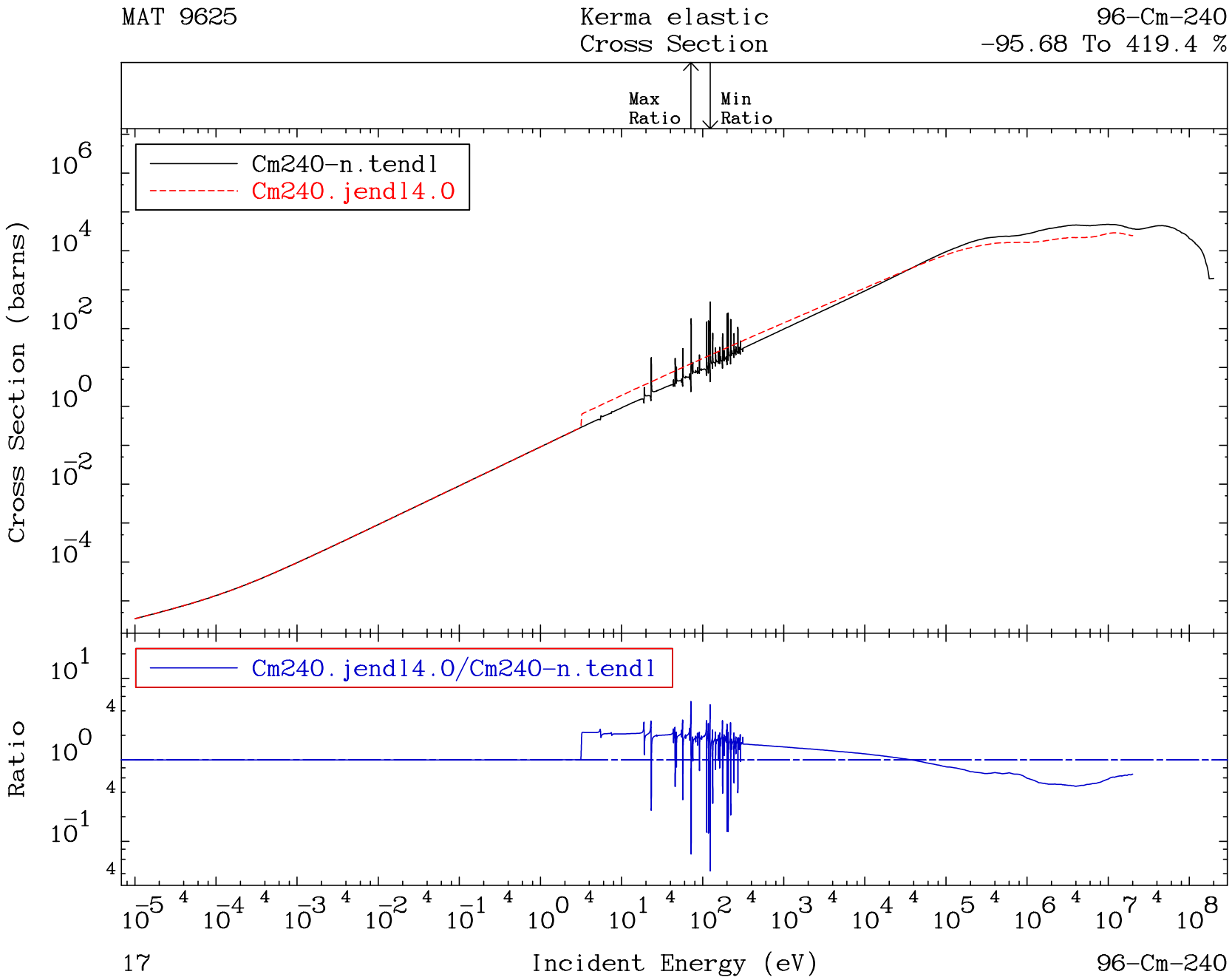

MAT 9625
2.000 MeV (n,n') Level
Cross Section
96-Cm-240
327.6 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl Threshold 2.0084 MeV
Cm240.jendl4.0 Threshold 127.53 keV
Cross Section (milli-barns)
200
150
100
50
0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^12
10^8
10^4
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
96-Cm-240

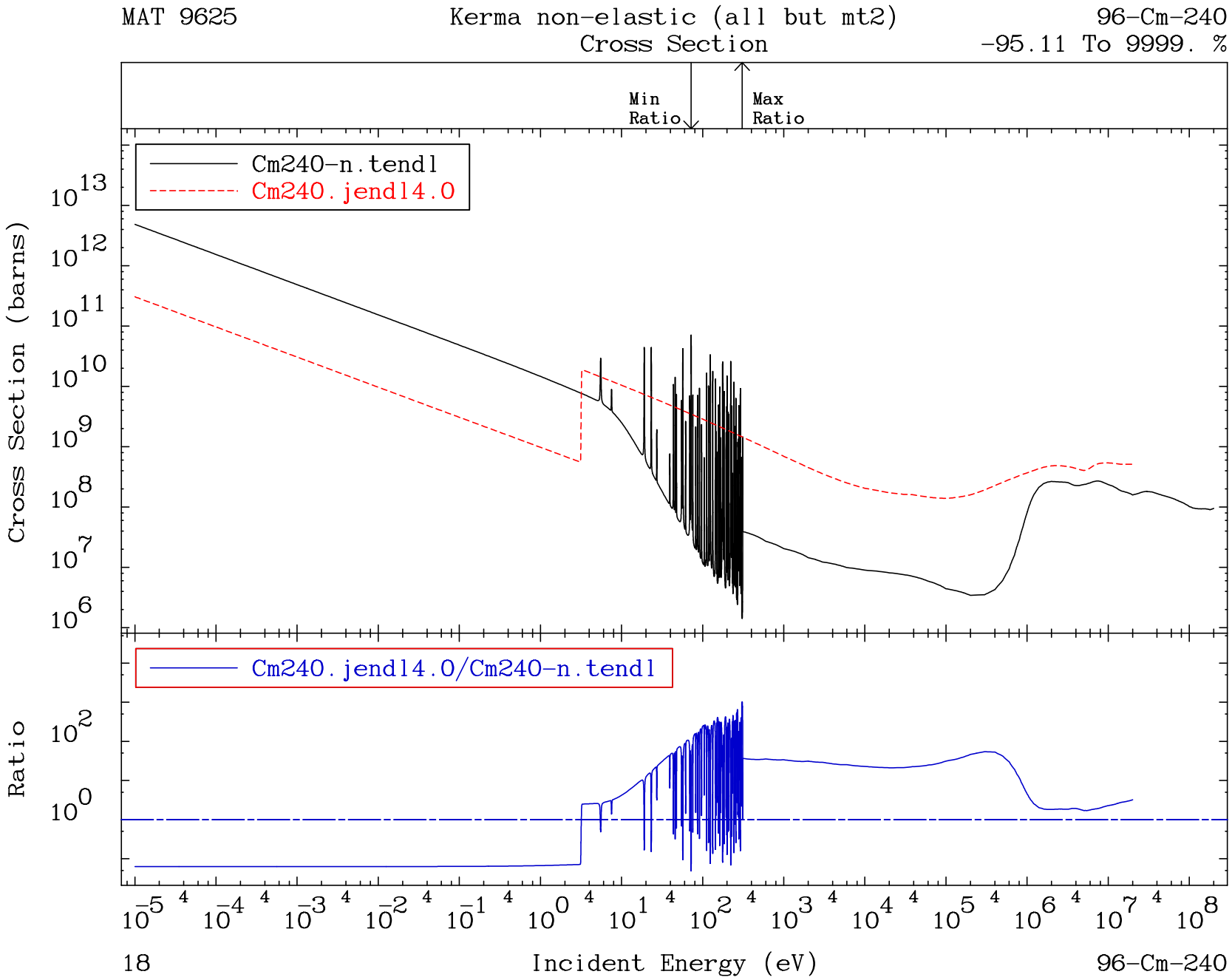

MAT 9625
3.000 MeV (n,n') Level
Cross Section
96-Cm-240
-41.90 To 9999. %
Max
Ratio
Min
Ratio
Cm240-n.tendl Threshold 3.0126 MeV
Cm240.jendl4.0 Threshold 267.12 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^2
10^1
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
96-Cm-240

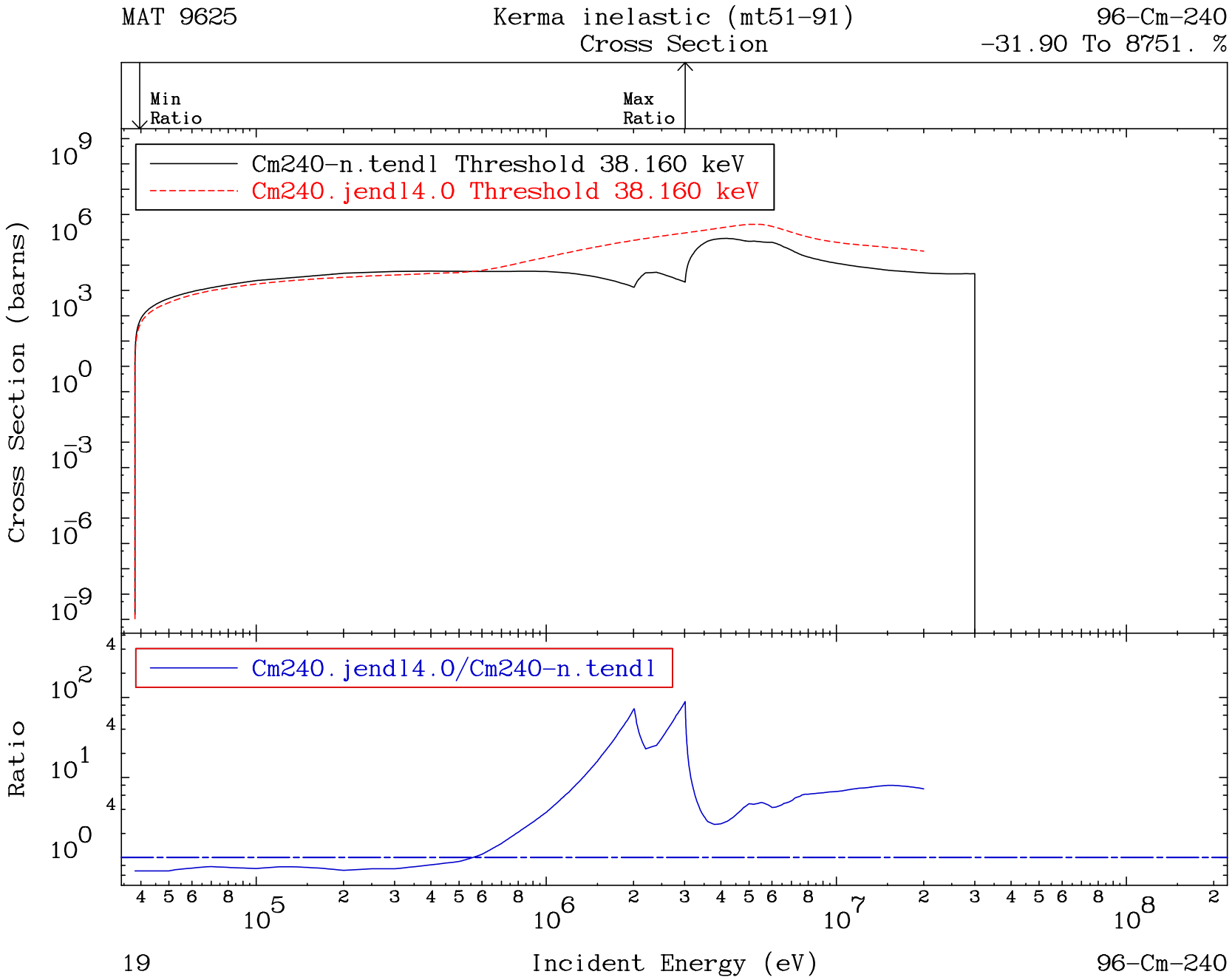

MAT 9625
(n,n') Continuum
Cross Section
96-Cm-240
206.2 To 9999. %
Max Ratio
Min Ratio
Cm240-n.tendl Threshold 3.0126 MeV
Cm240.jendl4.0 Threshold 110.93 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Cm240.jendl4.0/Cm240-n.tendl
Ratio
10^3
10^2
10^1
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
96-Cm-240

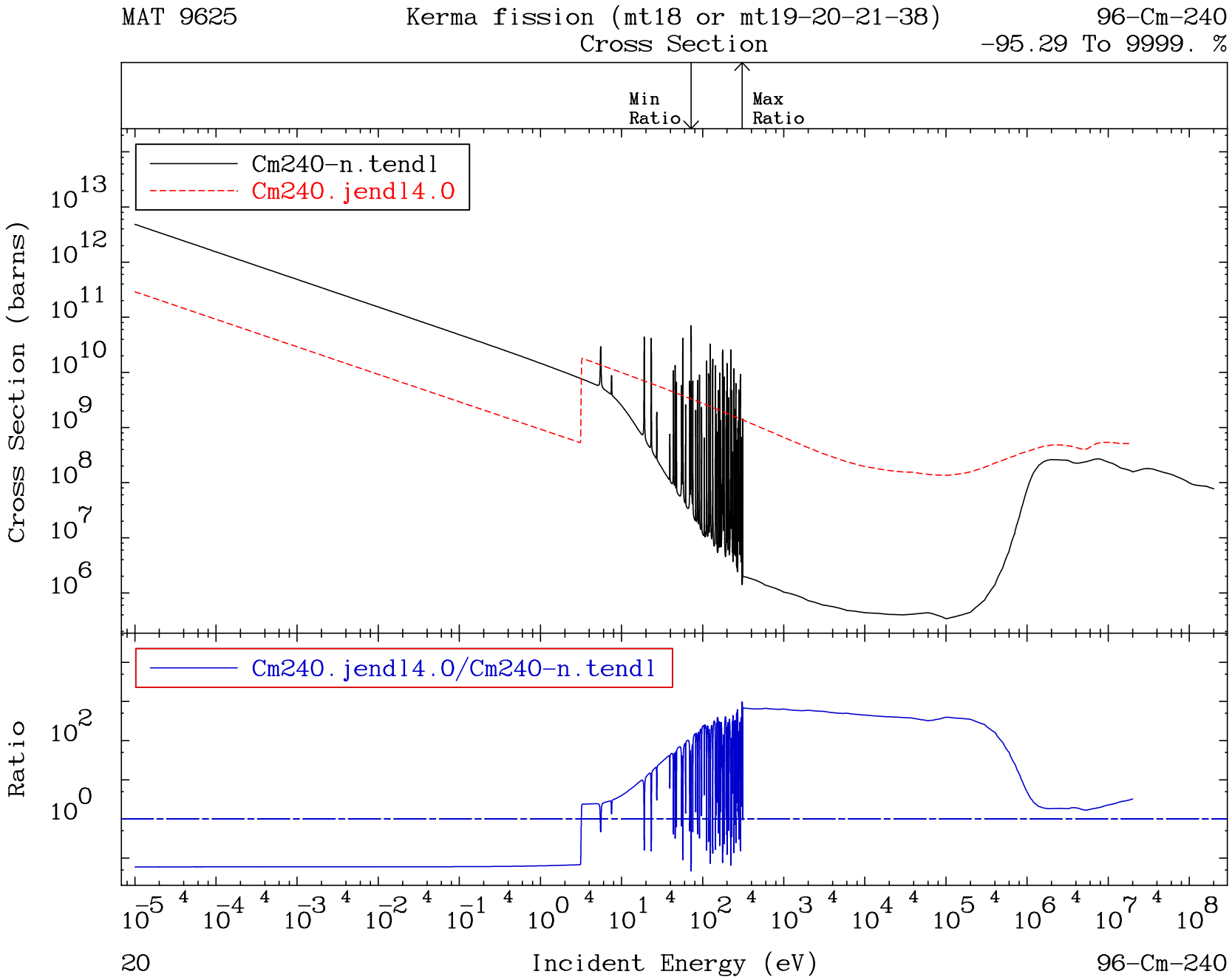

MAT 9625
(n,γ)
Cross Section
96-Cm-240
-85.58 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
15
96-Cm-240

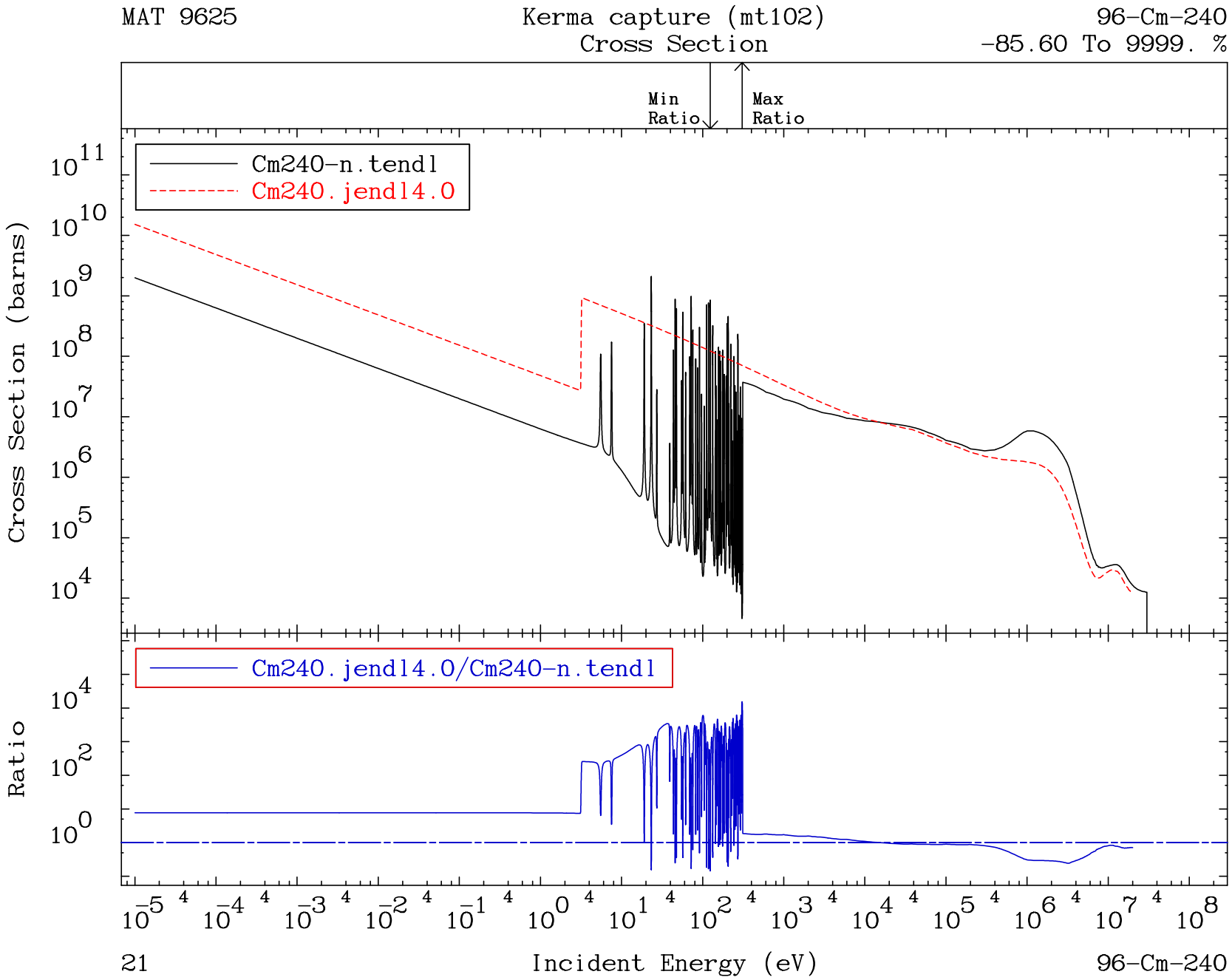

MAT 9625
Kerma total (eV-barns)
Cross Section
96-Cm-240
-95.11 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
16
96-Cm-240

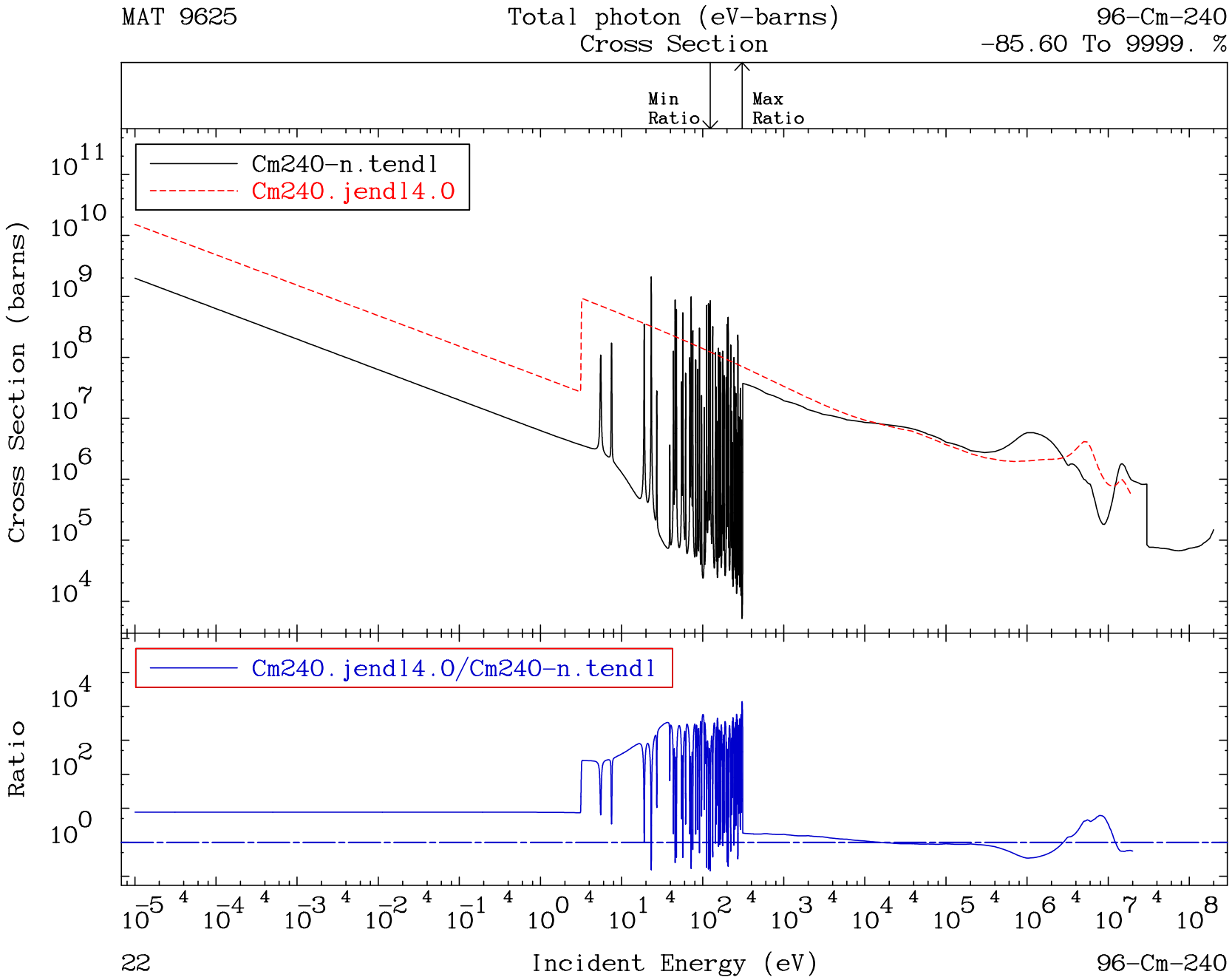

MAT 9625
Kerma elastic
Cross Section
96-Cm-240
-95.68 To 419.4 %
Max
Ratio
Min
Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
17
96-Cm-240

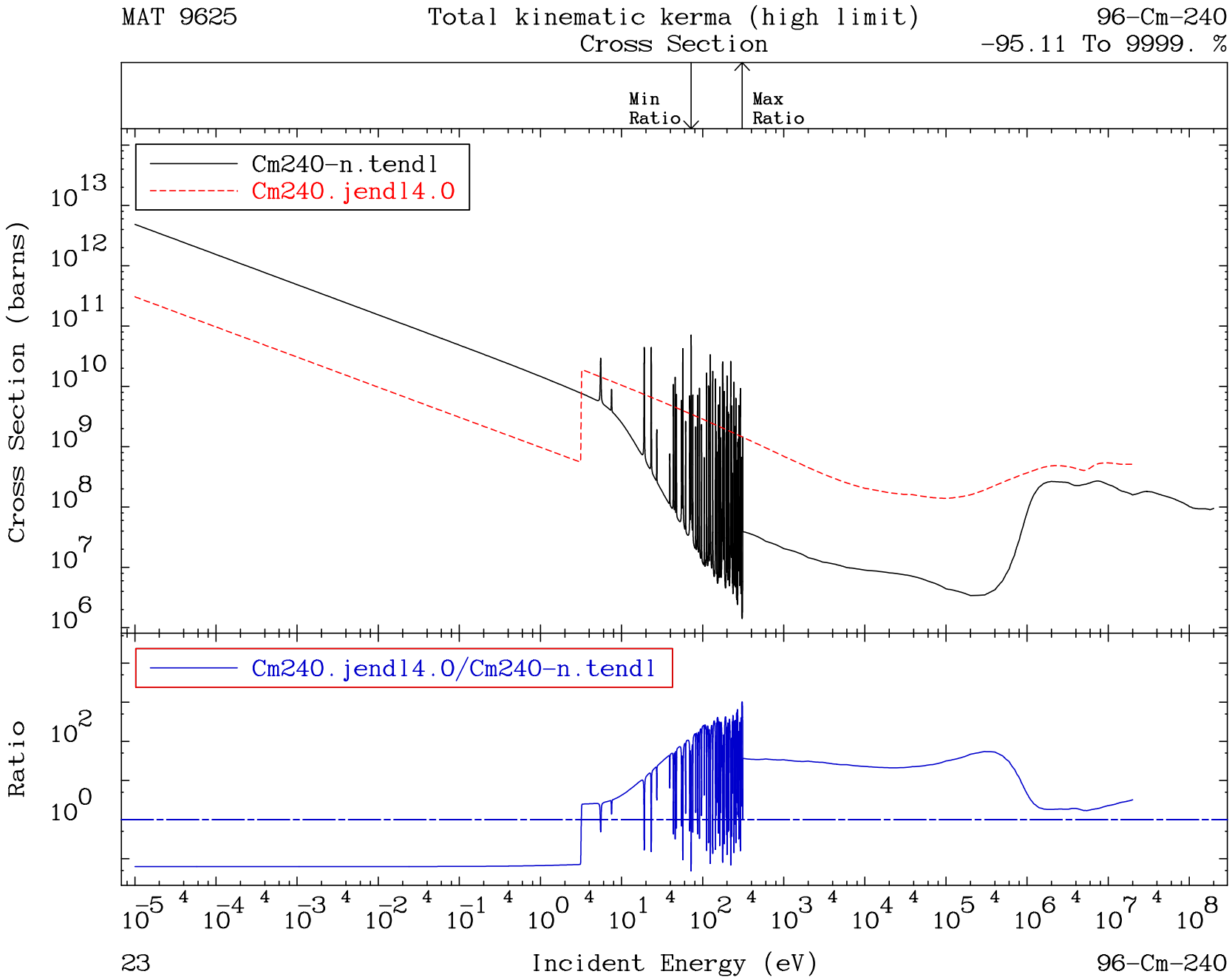

MAT 9625
Kerma non-elastic (all but mt2)
Cross Section
96-Cm-240
-95.11 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
18
96-Cm-240

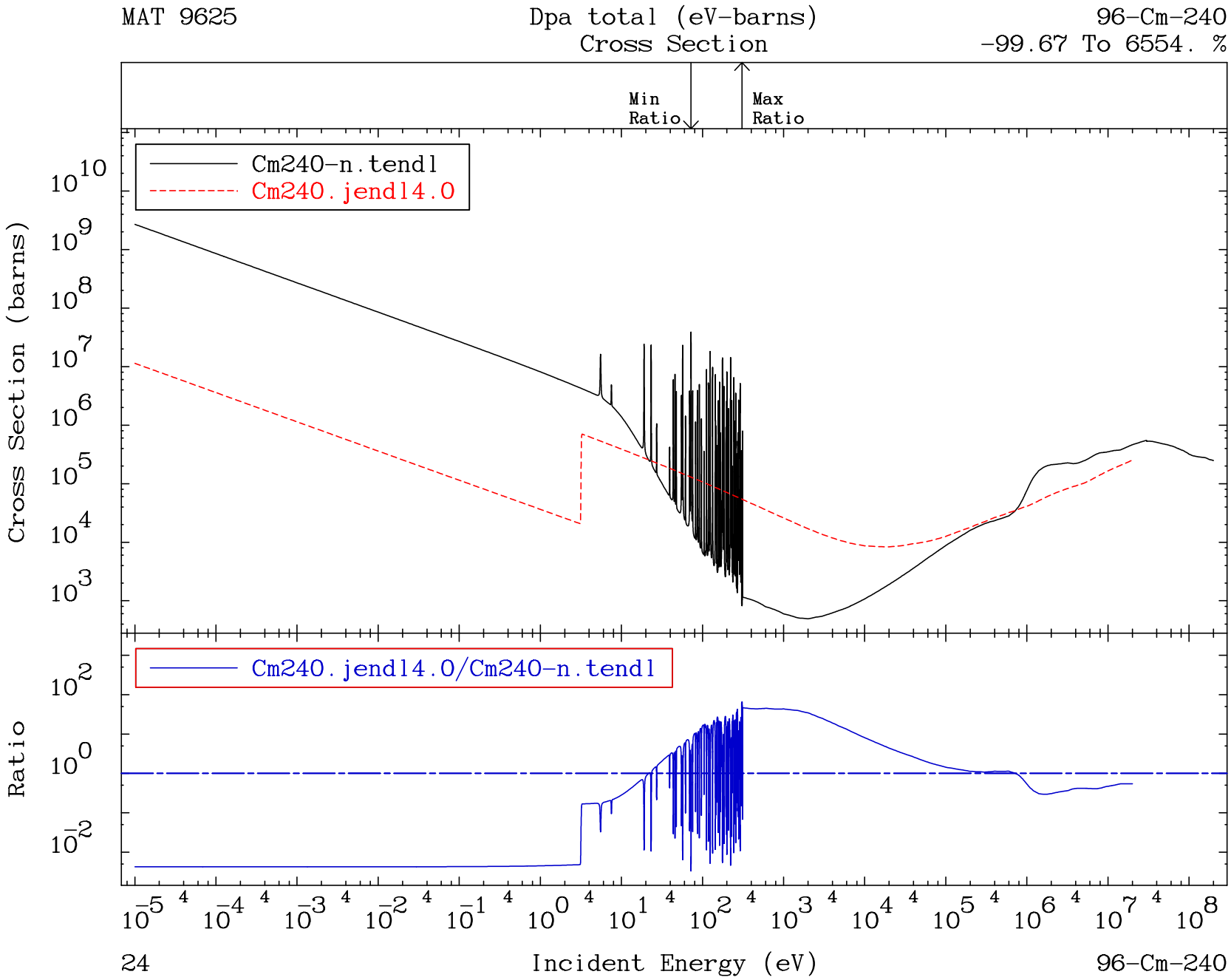

MAT 9625
Kerma inelastic (mt51-91)
Cross Section
96-Cm-240
-31.90 To 8751. %
Min Ratio
Max Ratio
Cm240-n.tendl Threshold 38.160 keV
Cm240.jendl4.0 Threshold 38.160 keV
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
19
96-Cm-240

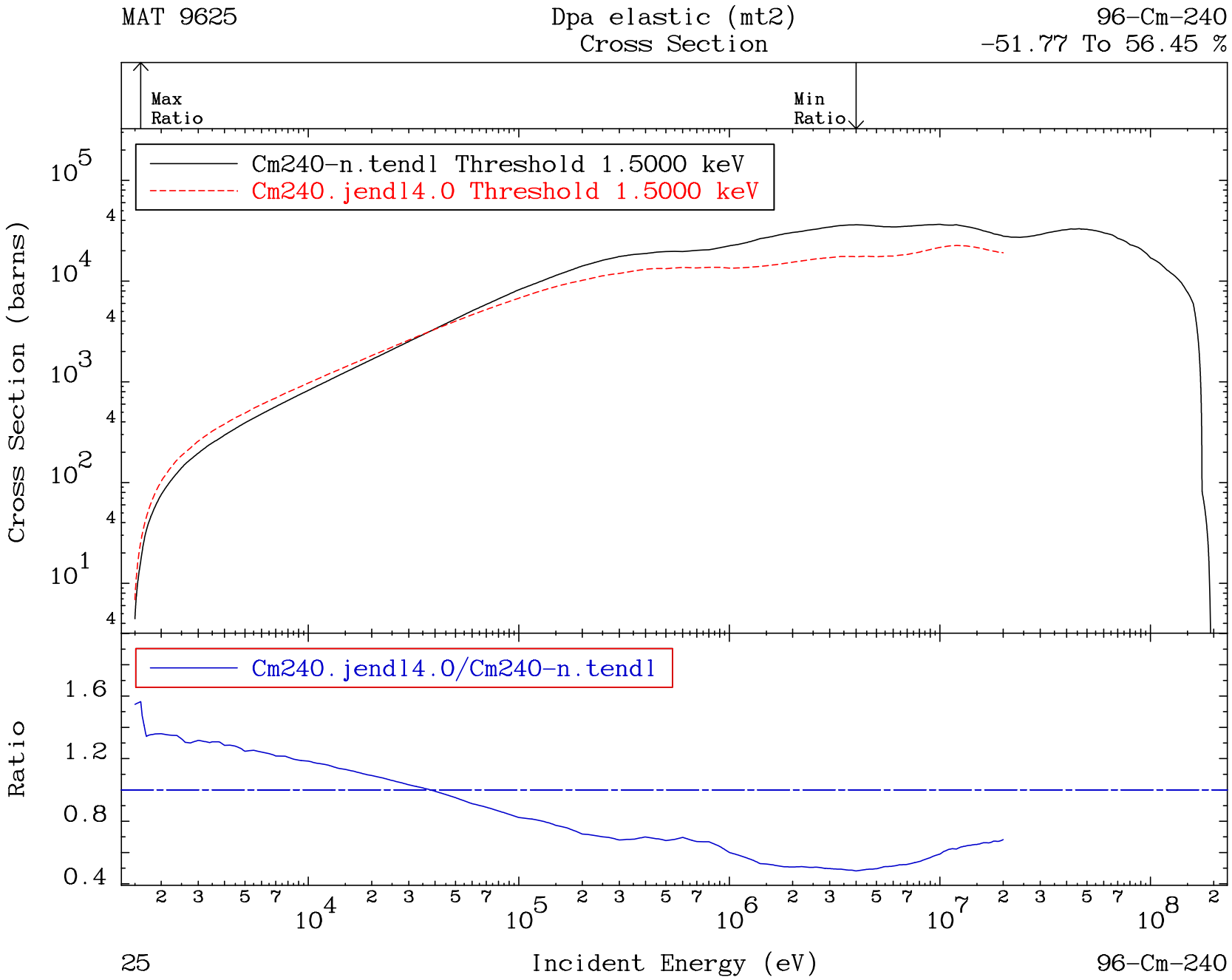

MAT 9625
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
96-Cm-240
-95.29 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
20
96-Cm-240

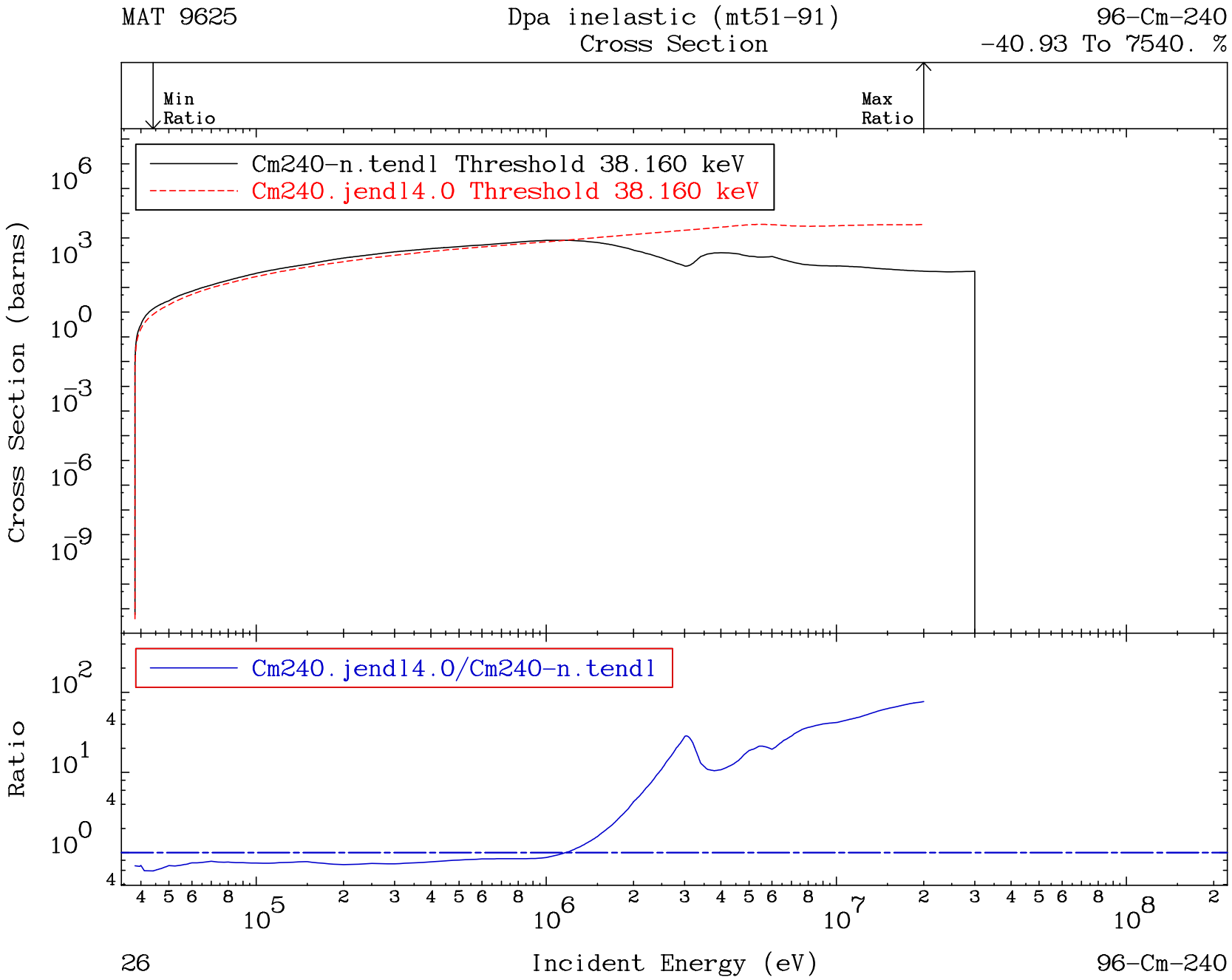

MAT 9625
Kerma capture (mt102)
Cross Section
96-Cm-240
-85.60 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
21
96-Cm-240

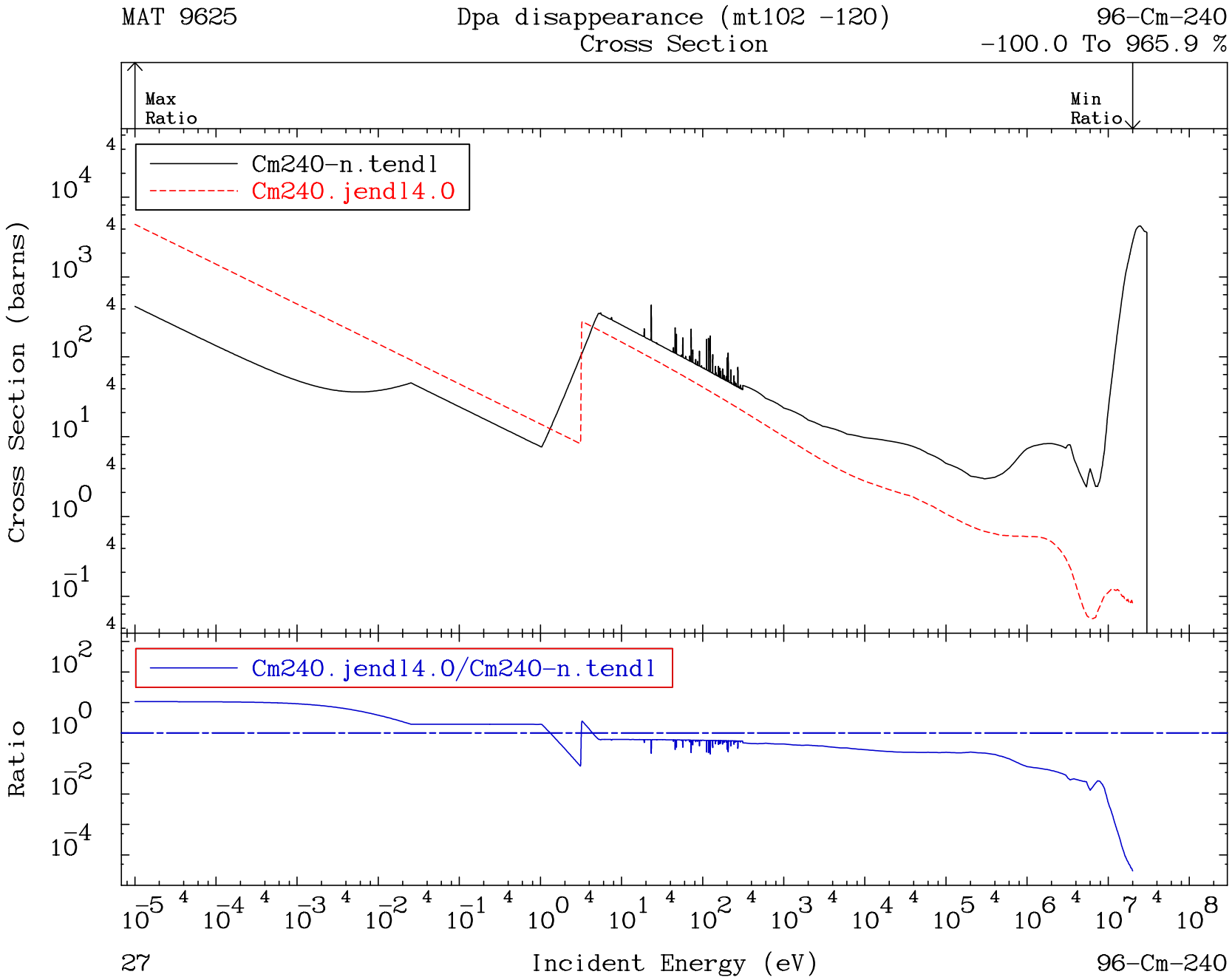

MAT 9625
Total photon (eV-barns)
Cross Section
96-Cm-240
-85.60 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
22
96-Cm-240


MAT 9625
Total kinematic kerma (high limit)
Cross Section
96-Cm-240
-95.11 To 9999. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
23
96-Cm-240


MAT 9625
Dpa total (eV-barns)
Cross Section
96-Cm-240
-99.67 To 6554. %
Min Ratio
Max Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
24
96-Cm-240


MAT 9625
Dpa elastic (mt2)
Cross Section
96-Cm-240
-51.77 To 56.45 %
Max Ratio
Min Ratio
Cm240-n.tendl Threshold 1.5000 keV
Cm240.jendl4.0 Threshold 1.5000 keV
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
25
96-Cm-240


MAT 9625
Dpa inelastic (mt51-91)
Cross Section
96-Cm-240
-40.93 To 7540. %
Min Ratio
Max Ratio
Cm240-n.tendl Threshold 38.160 keV
Cm240.jendl4.0 Threshold 38.160 keV
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
26
96-Cm-240


MAT 9625
Dpa disappearance (mt102 -120)
Cross Section
96-Cm-240
-100.0 To 965.9 %
Max Ratio
Min Ratio
Cm240-n.tendl
Cm240.jendl4.0
Cross Section (barns)
Cm240.jendl4.0/Cm240-n.tendl
Ratio
Incident Energy (eV)
27
96-Cm-240