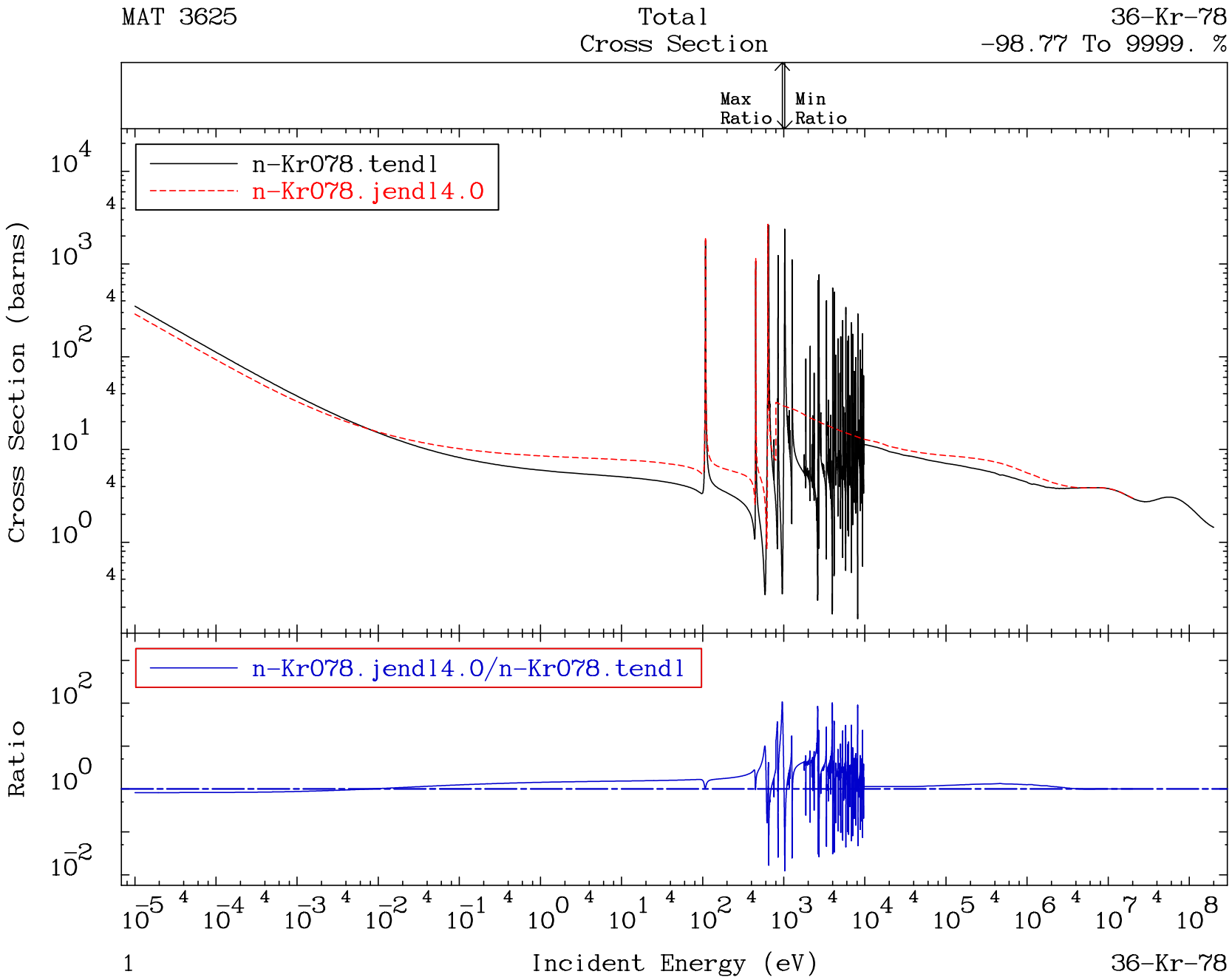
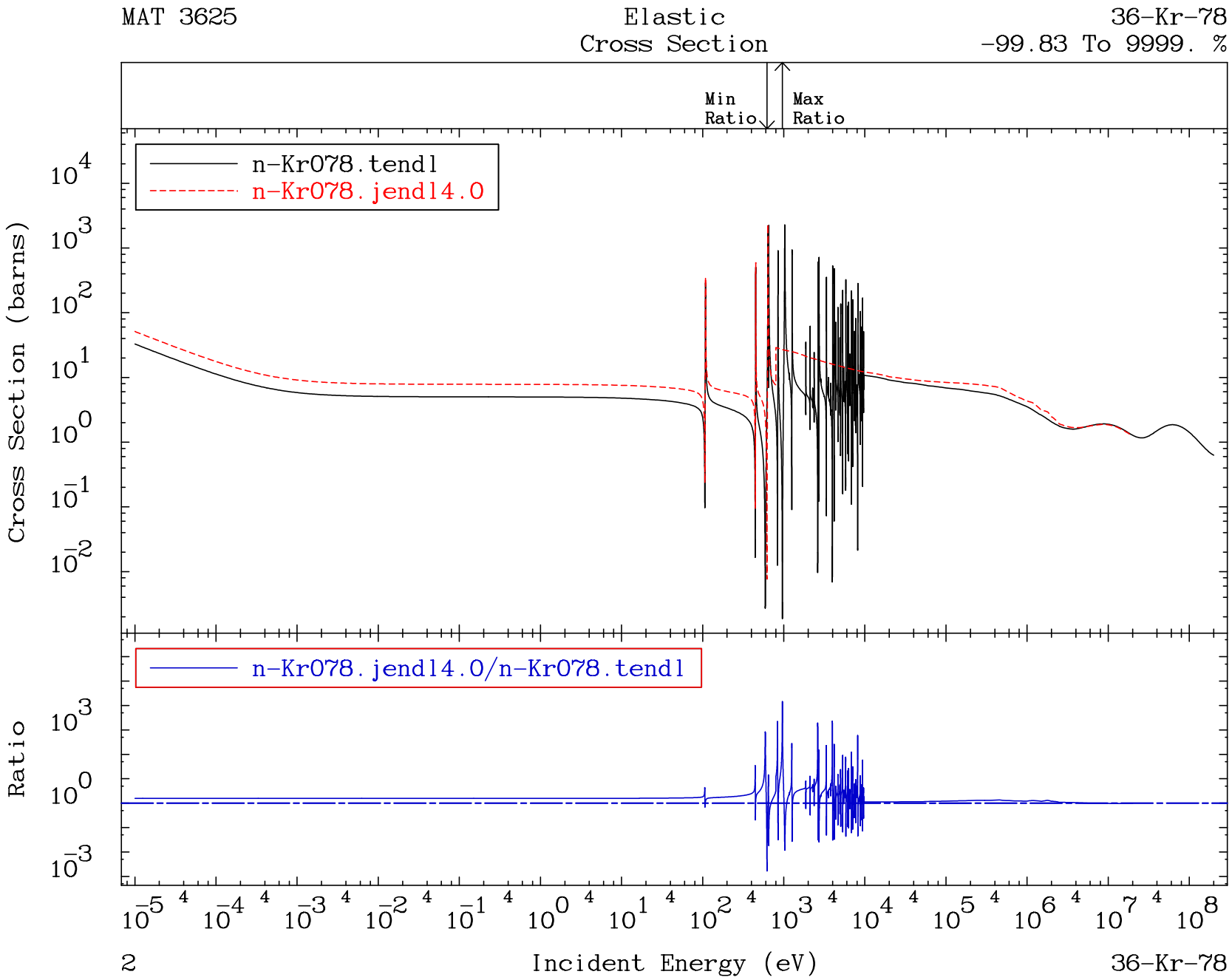
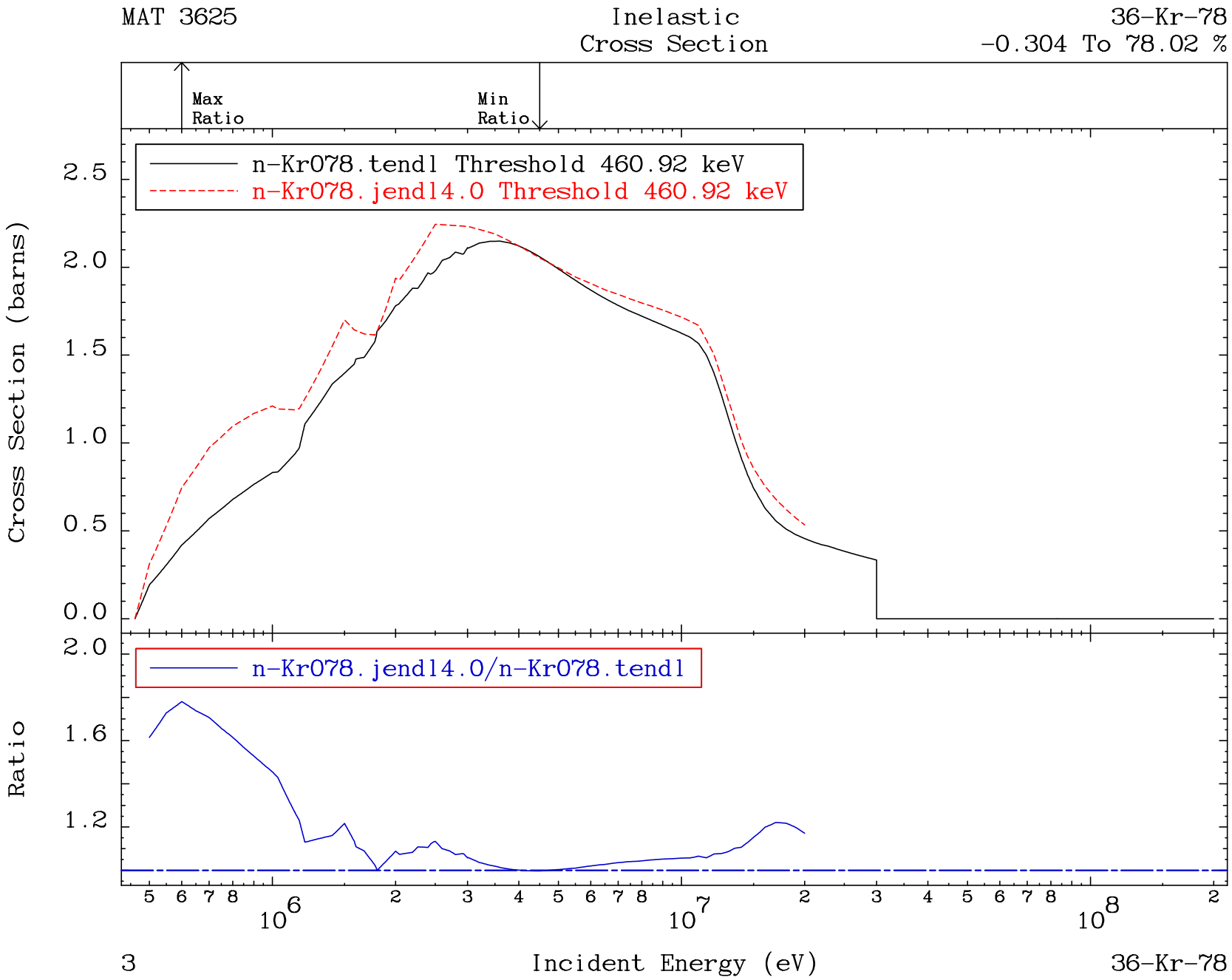
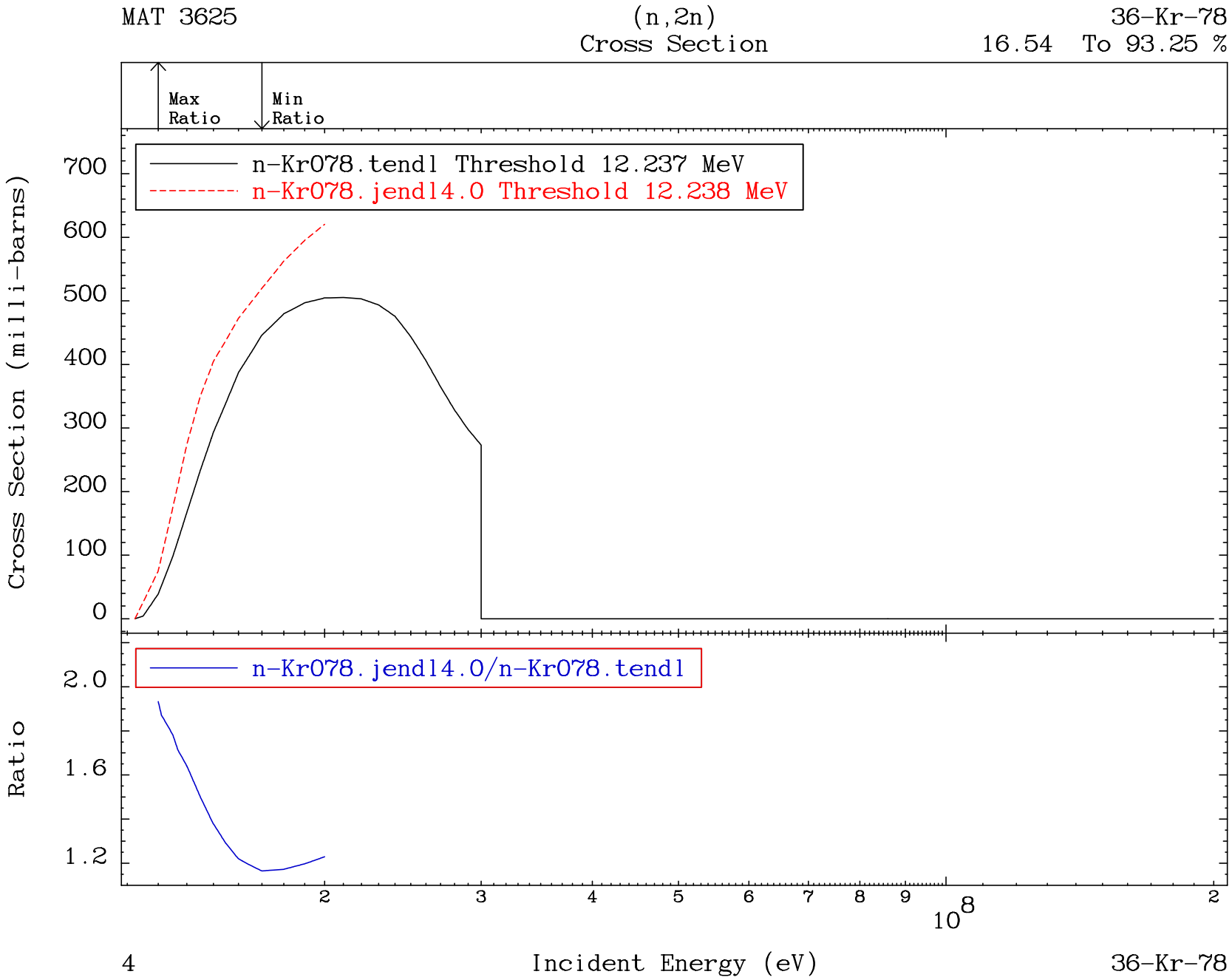
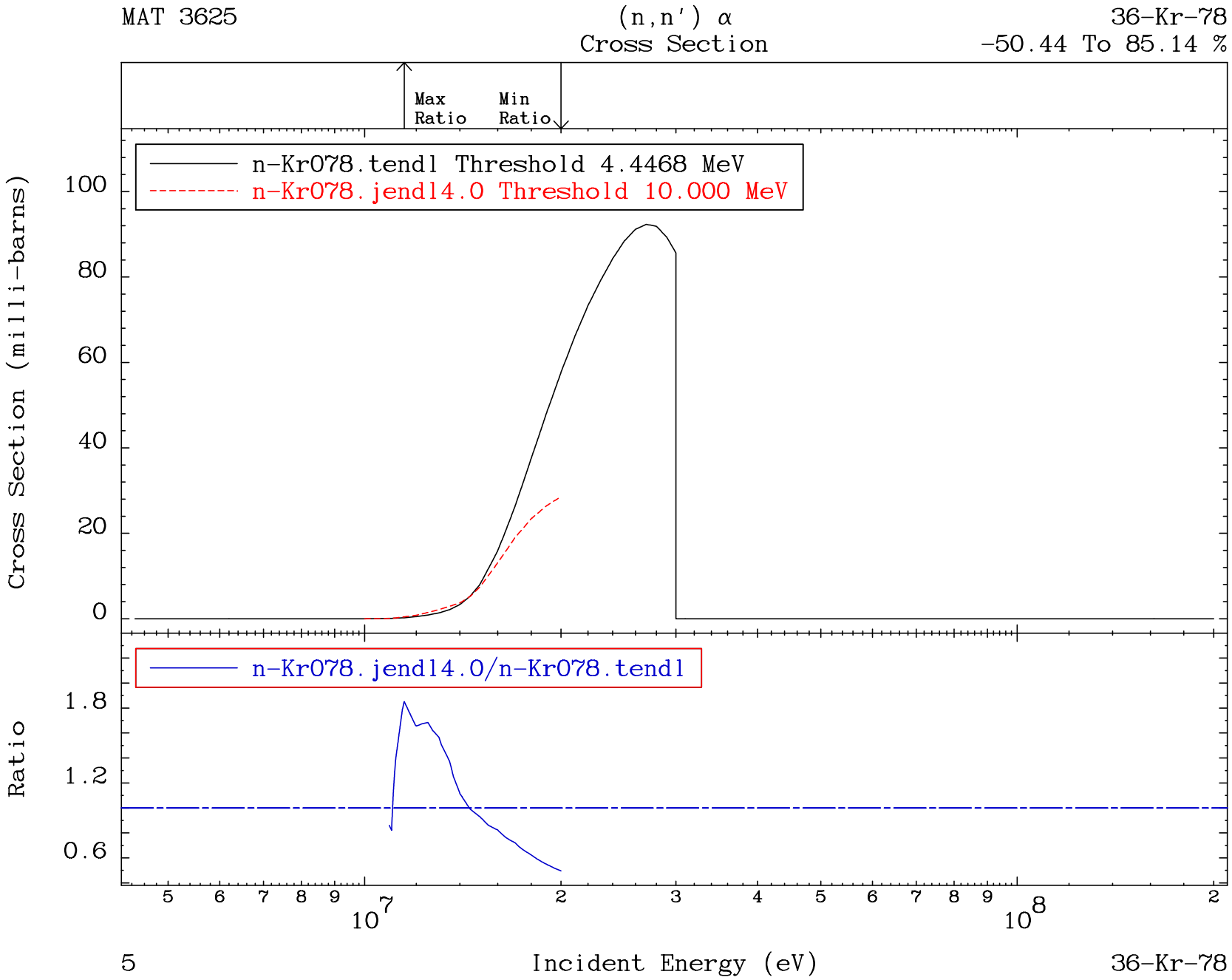
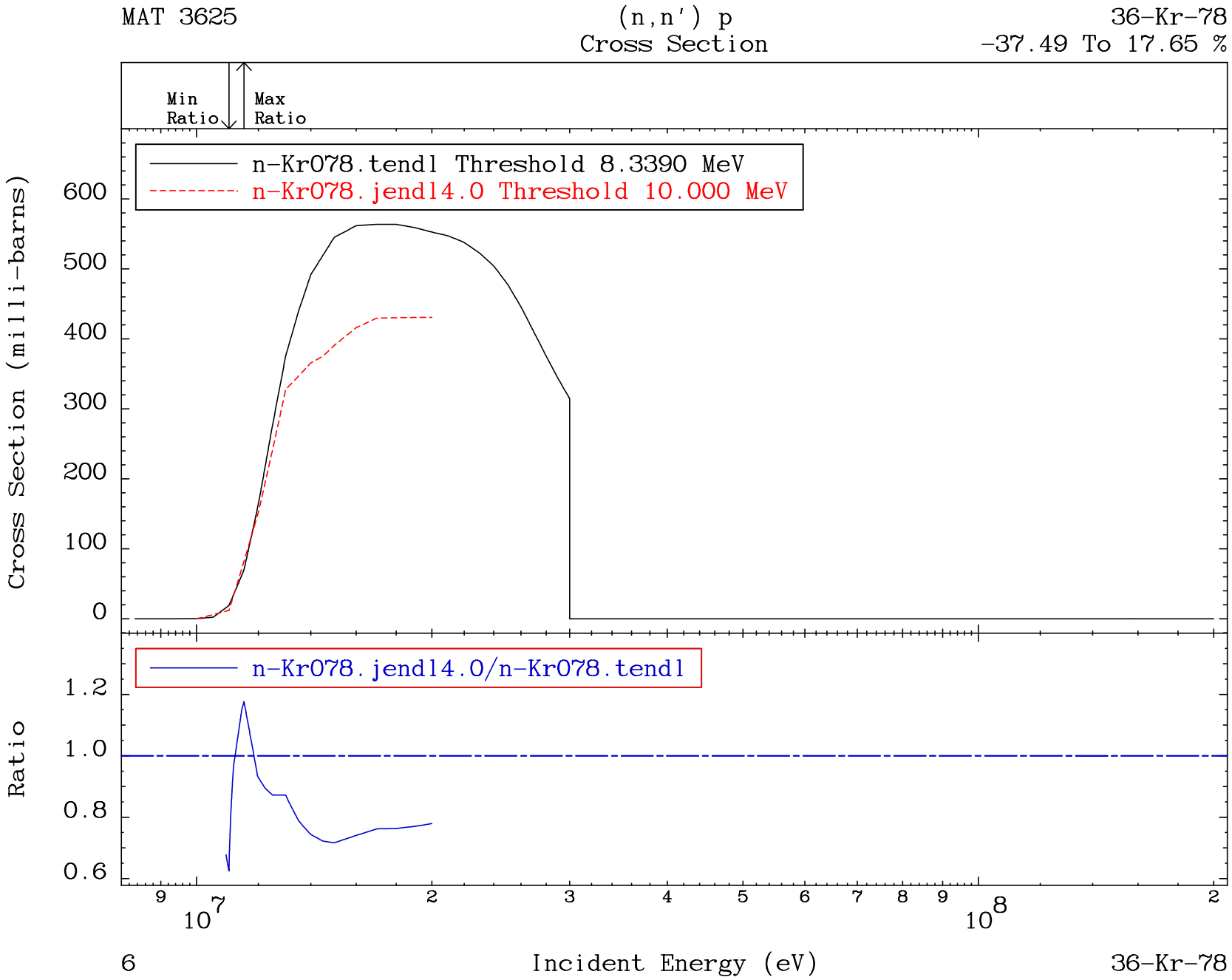

MAT 3625
Total
Cross Section
36-Kr-78
-98.77 To 9999. %
Max Ratio
Min Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
1
36-Kr-78

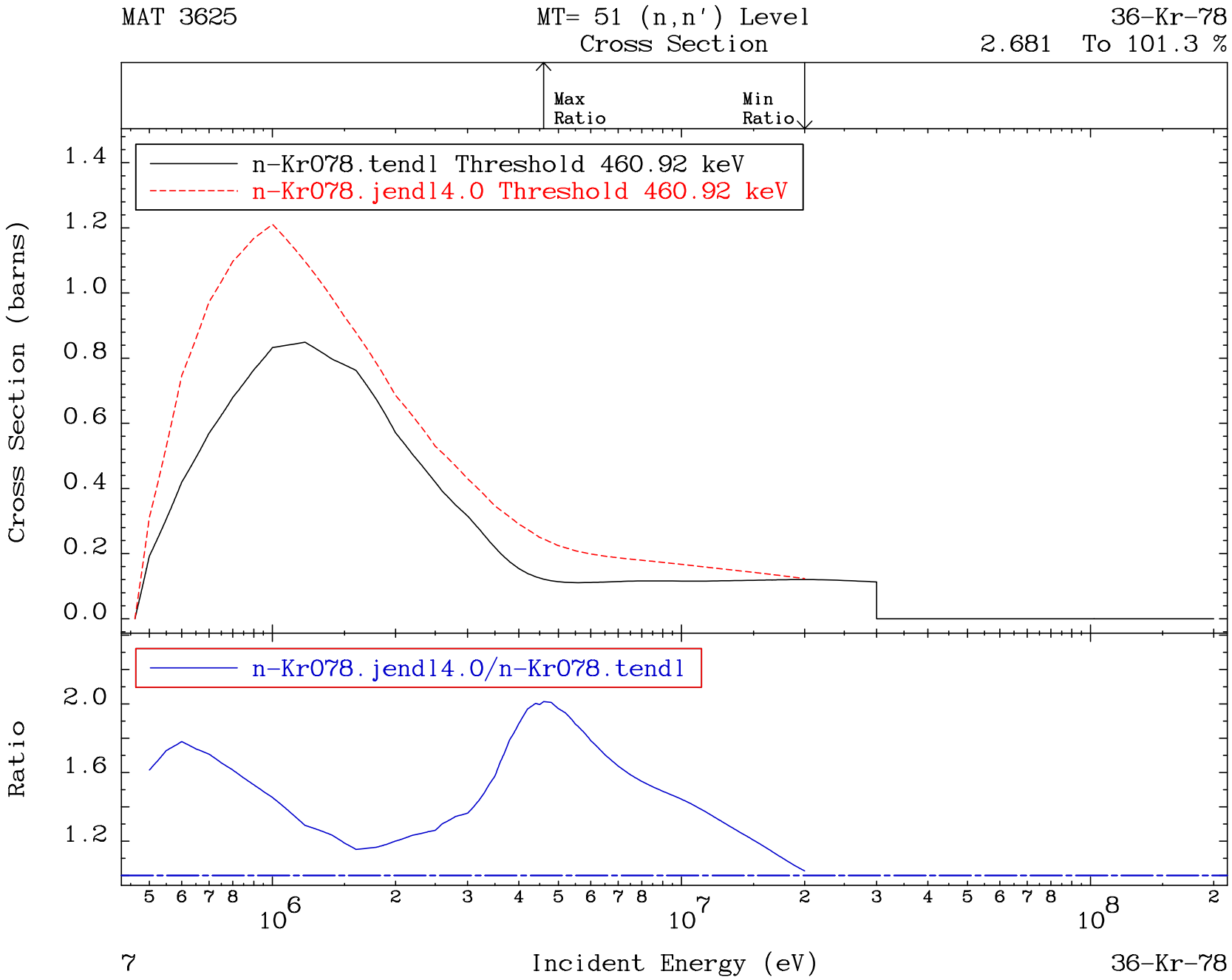

MAT 3625
Elastic
Cross Section
36-Kr-78
-99.83 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
2
36-Kr-78

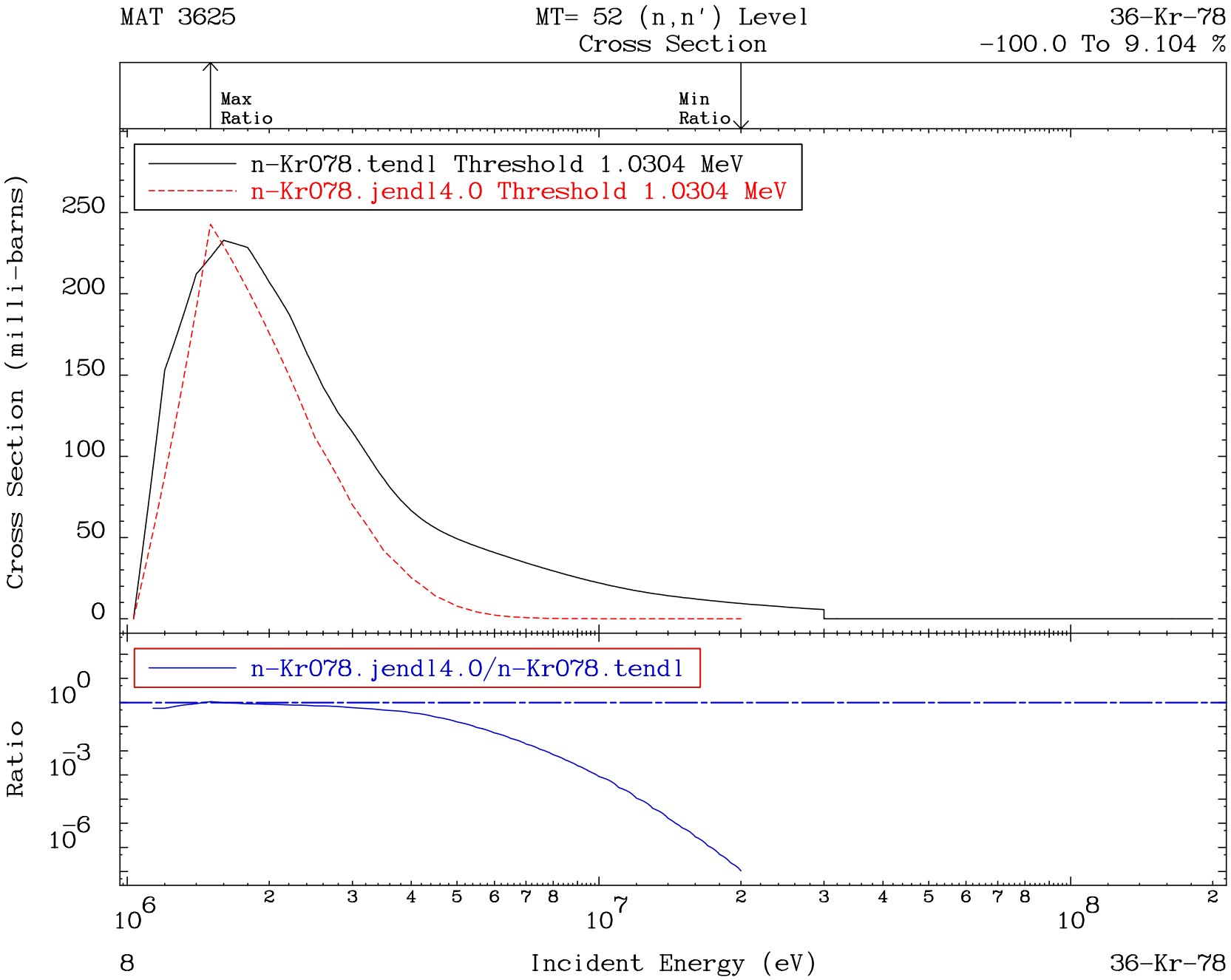

MAT 3625
Inelastic
Cross Section
36-Kr-78
-0.304 To 78.02 %
Max
Ratio
Min
Ratio
n-Kr078.tendl Threshold 460.92 keV
n-Kr078.jendl4.0 Threshold 460.92 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
2.0
1.6
1.2
5 6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
36-Kr-78

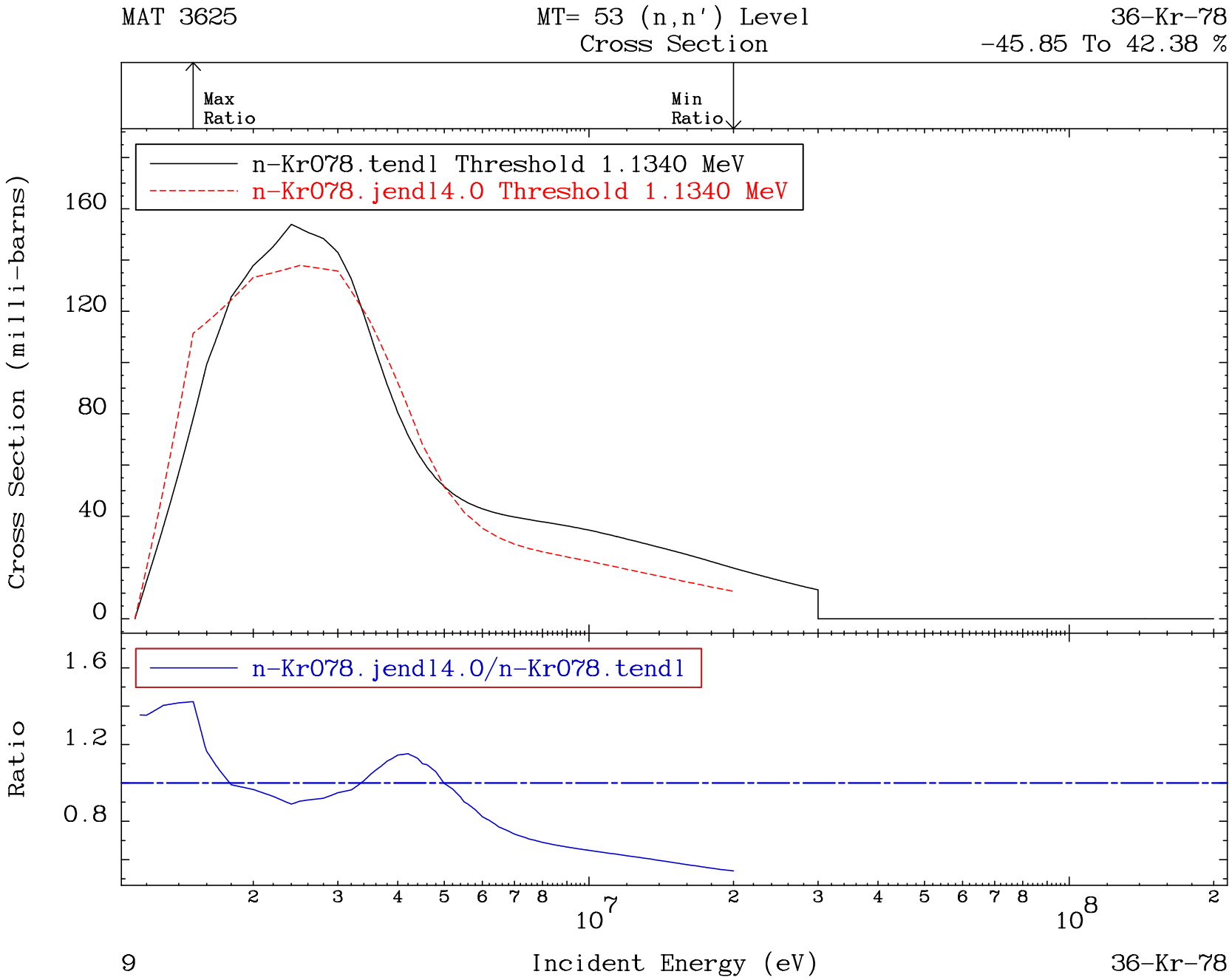

MAT 3625
(n,2n)
Cross Section
36-Kr-78
16.54 To 93.25 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 12.237 MeV
n-Kr078.jendl4.0 Threshold 12.238 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
36-Kr-78

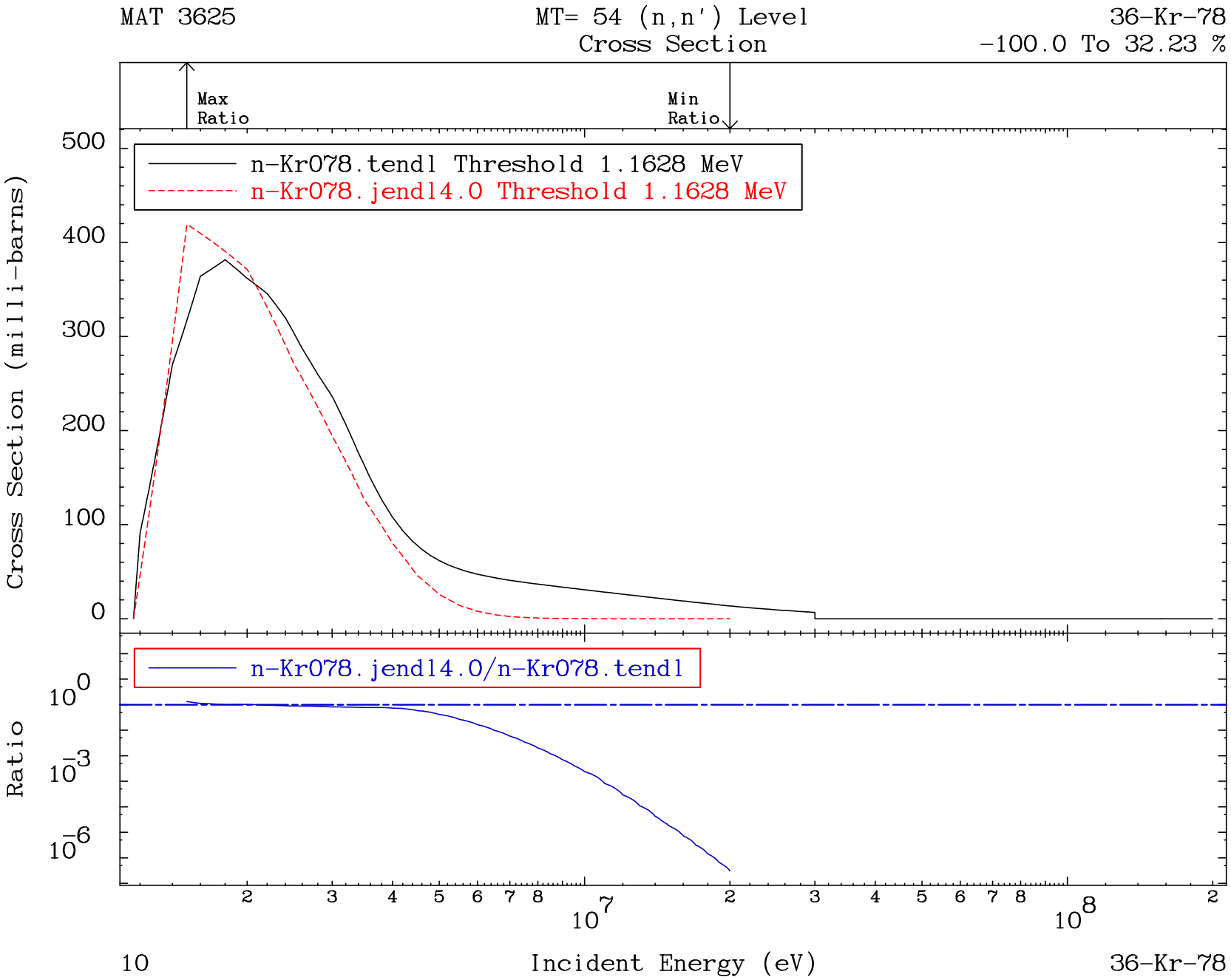

MAT 3625
(n,n') α
Cross Section
36-Kr-78
-50.44 To 85.14 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 4.4468 MeV
n-Kr078.jendl4.0 Threshold 10.000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
1.8
1.2
0.6
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
36-Kr-78

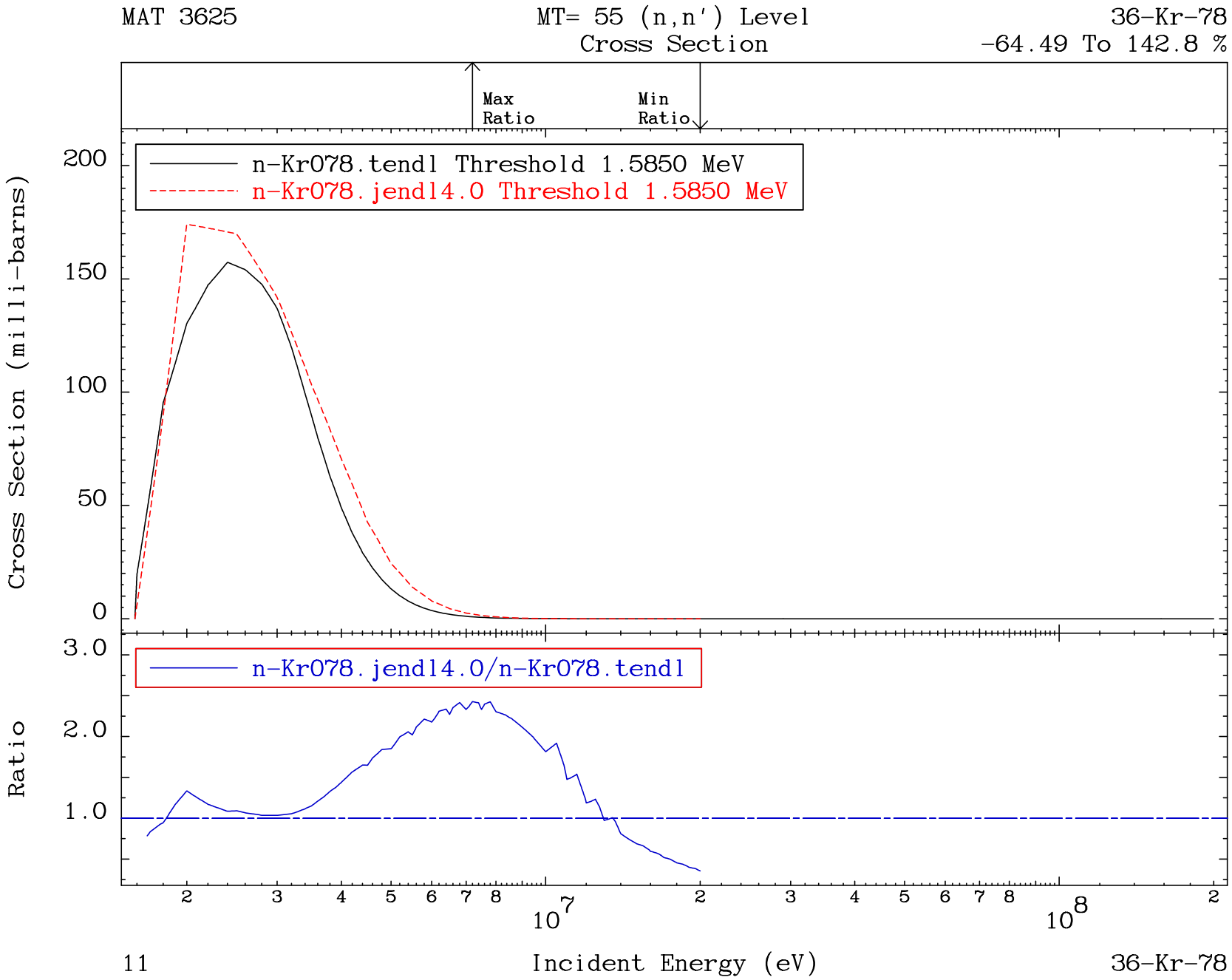

MAT 3625
(n,n') p
Cross Section
36-Kr-78
-37.49 To 17.65 %
Min Ratio
Max Ratio
n-Kr078.tendl Threshold 8.3390 MeV
n-Kr078.jendl4.0 Threshold 10.000 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
1.2
1.0
0.8
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
36-Kr-78

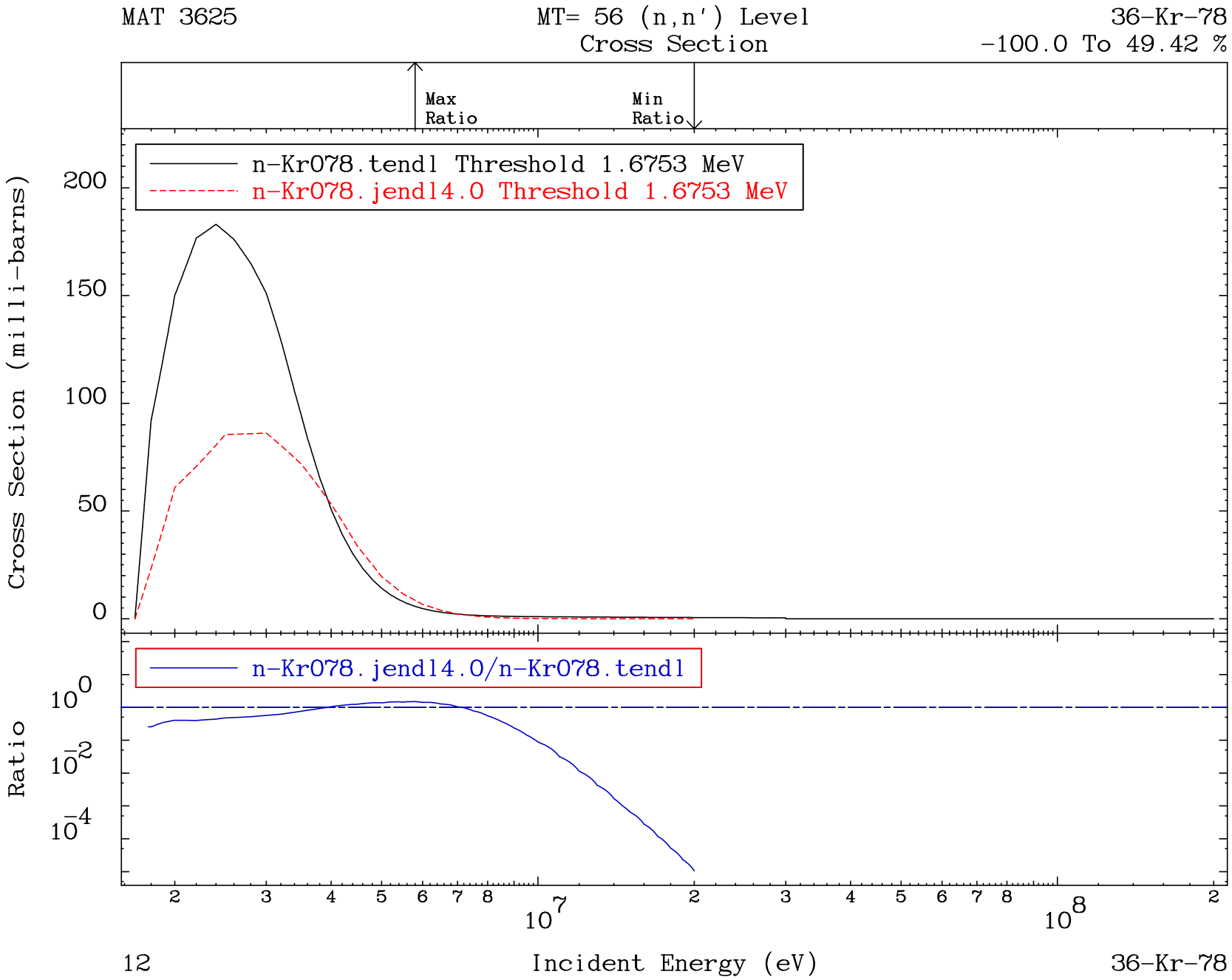

MAT 3625
MT= 51 (n,n') Level
Cross Section
36-Kr-78
2.681 To 101.3 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 460.92 keV
n-Kr078.jendl4.0 Threshold 460.92 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
2.0
1.6
1.2
5 6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
7
Incident Energy (eV)
36-Kr-78

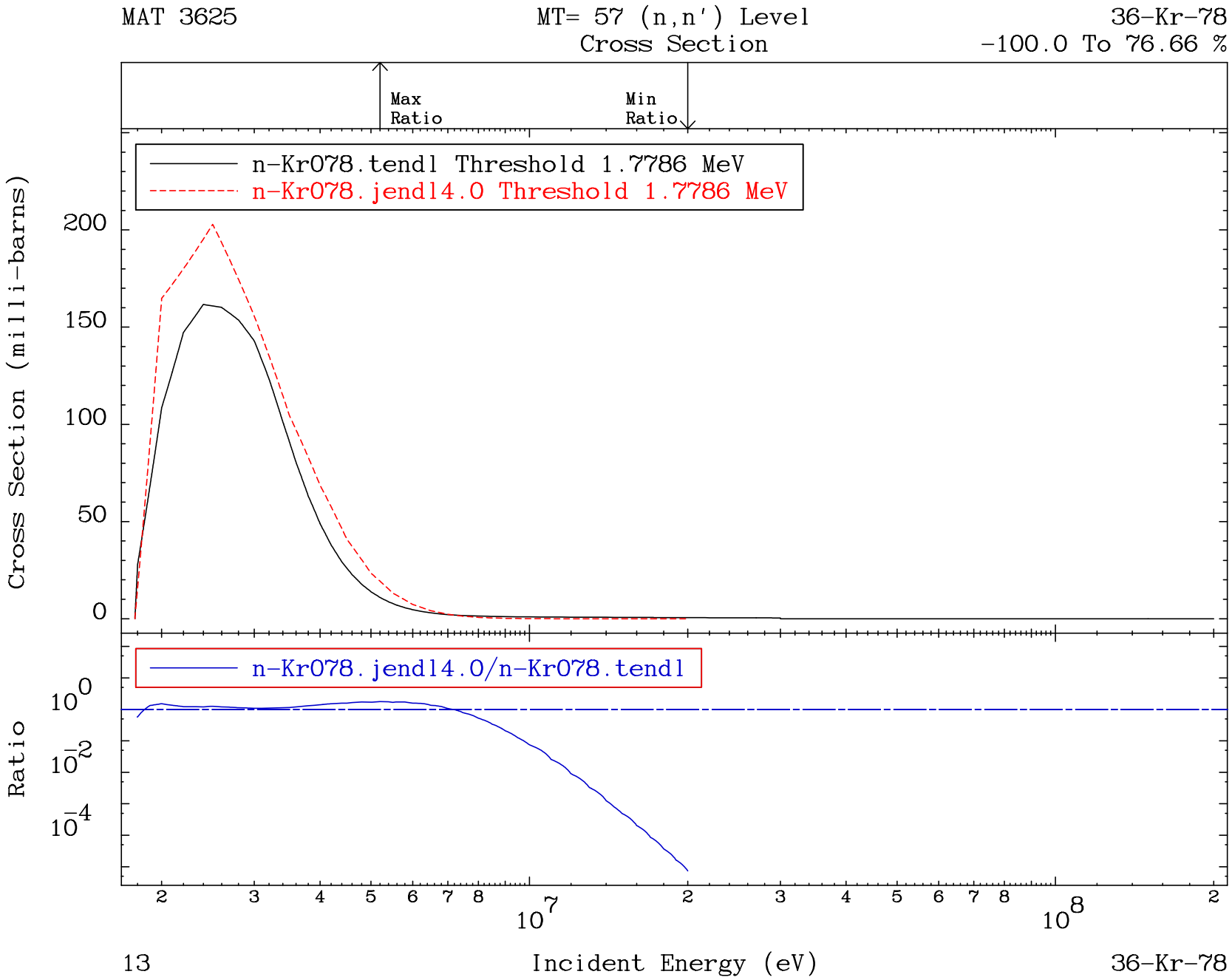

MAT 3625
MT= 52 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 9.104 %
Max
Ratio
Min
Ratio
n-Kr078.tendl Threshold 1.0304 MeV
n-Kr078.jendl4.0 Threshold 1.0304 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-3
10^-6
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
36-Kr-78

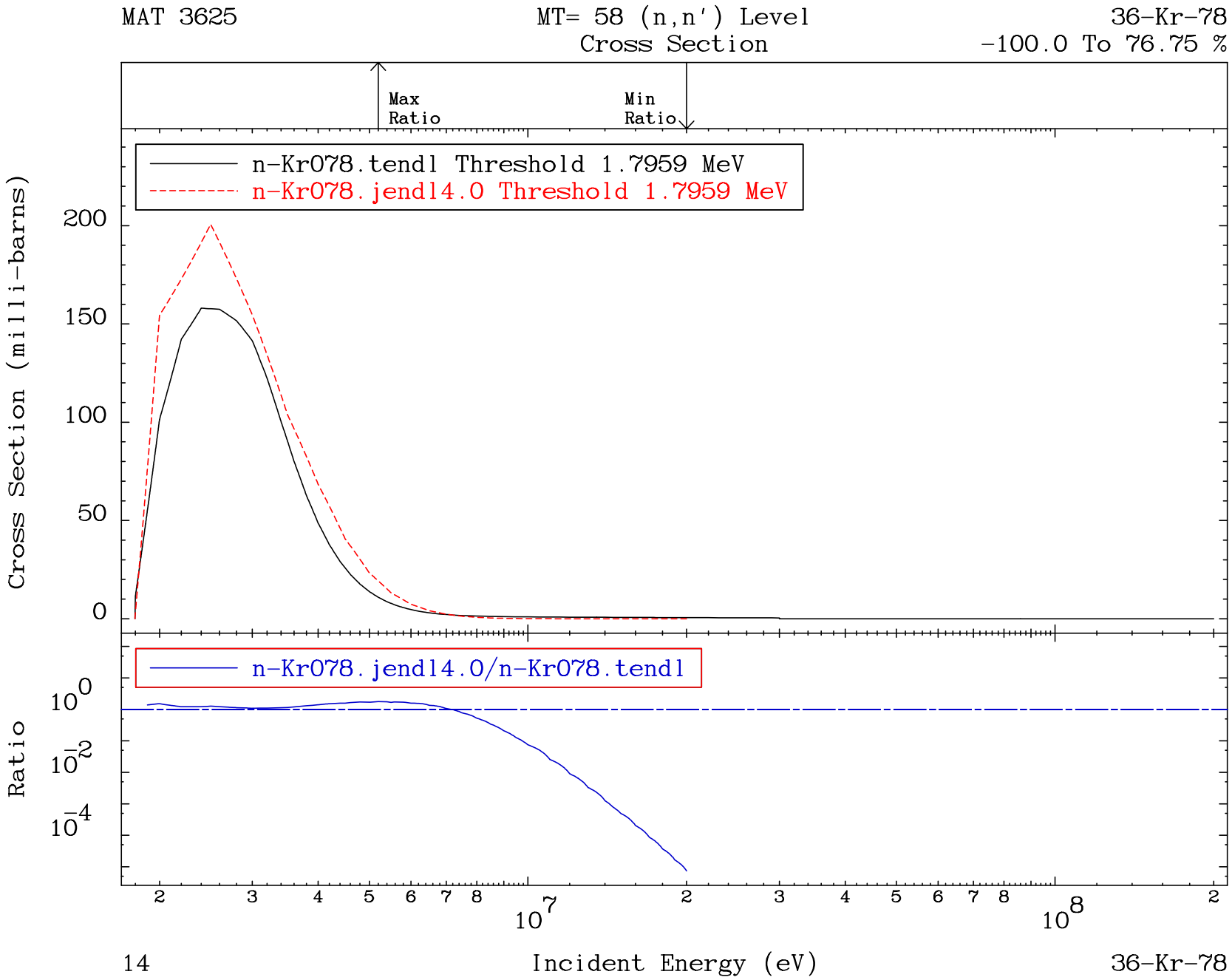

MAT 3625
MT= 53 (n,n') Level
Cross Section
36-Kr-78
-45.85 To 42.38 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 1.1340 MeV
n-Kr078.jendl4.0 Threshold 1.1340 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
1.6
1.2
0.8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
36-Kr-78

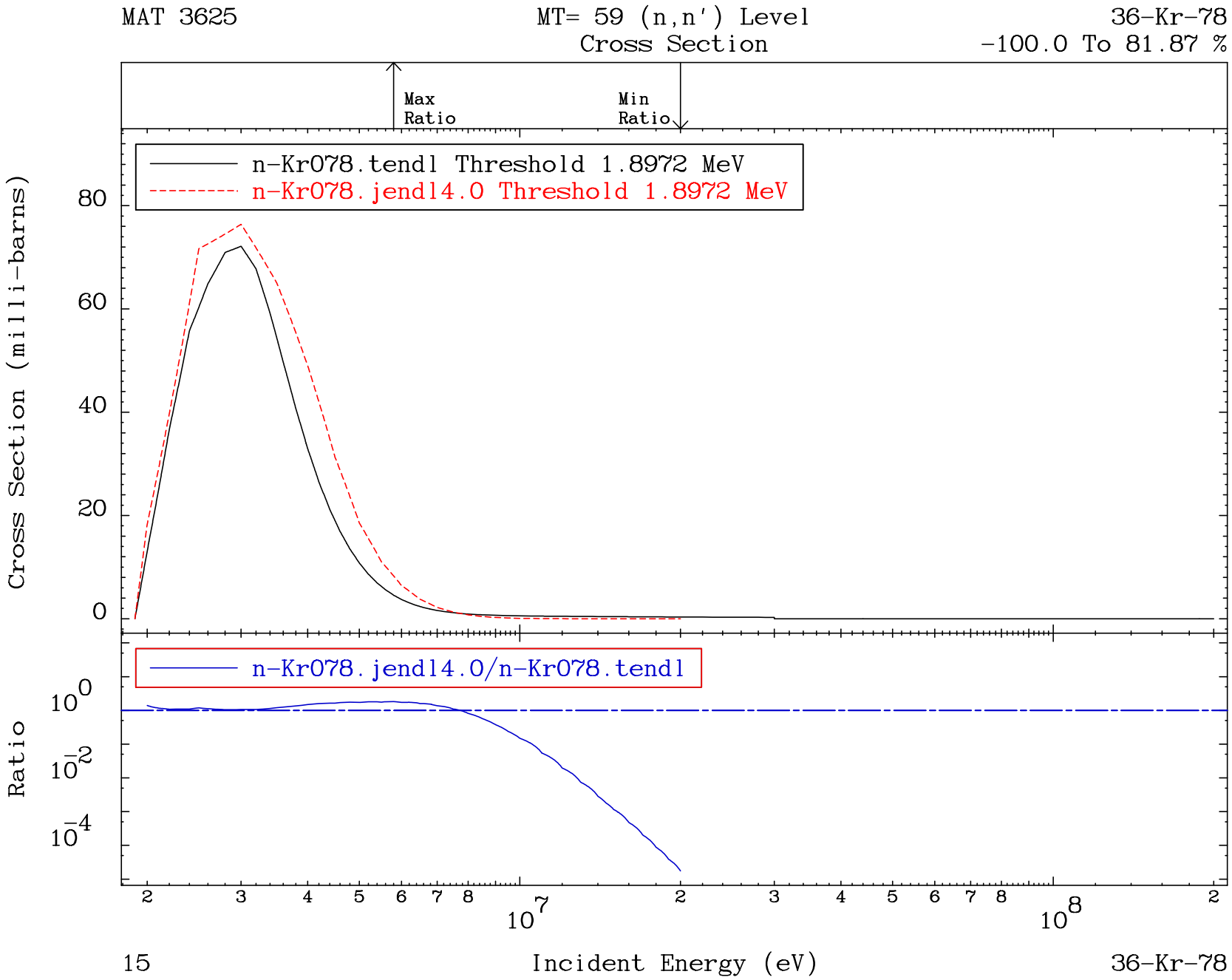

MAT 3625
MT= 54 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 32.23 %
Max
Ratio
Min
Ratio
n-Kr078.tendl Threshold 1.1628 MeV
n-Kr078.jendl4.0 Threshold 1.1628 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-3
10^-6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
36-Kr-78

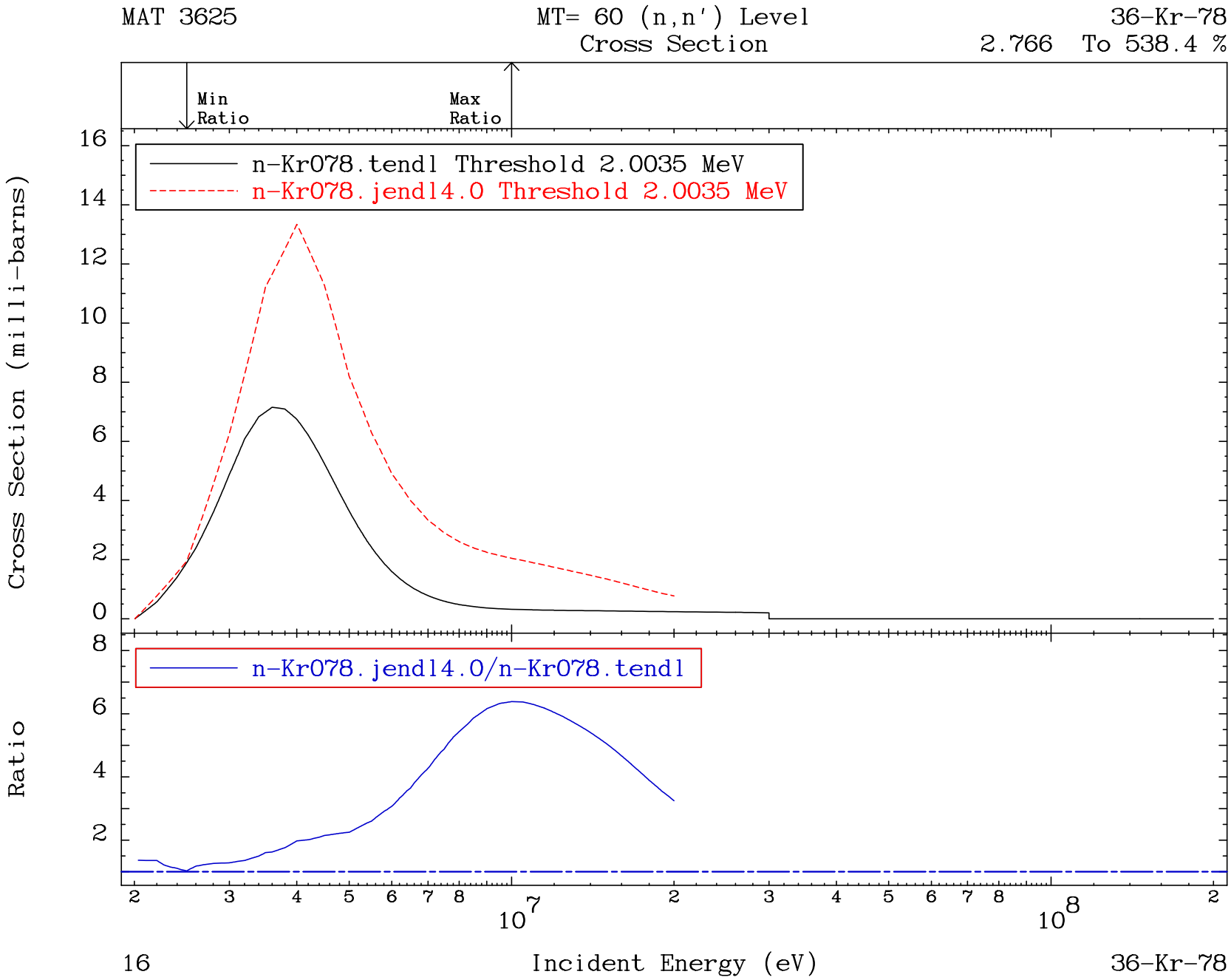

MAT 3625
MT= 55 (n,n') Level
Cross Section
36-Kr-78
-64.49 To 142.8 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 1.5850 MeV
n-Kr078.jendl4.0 Threshold 1.5850 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
36-Kr-78

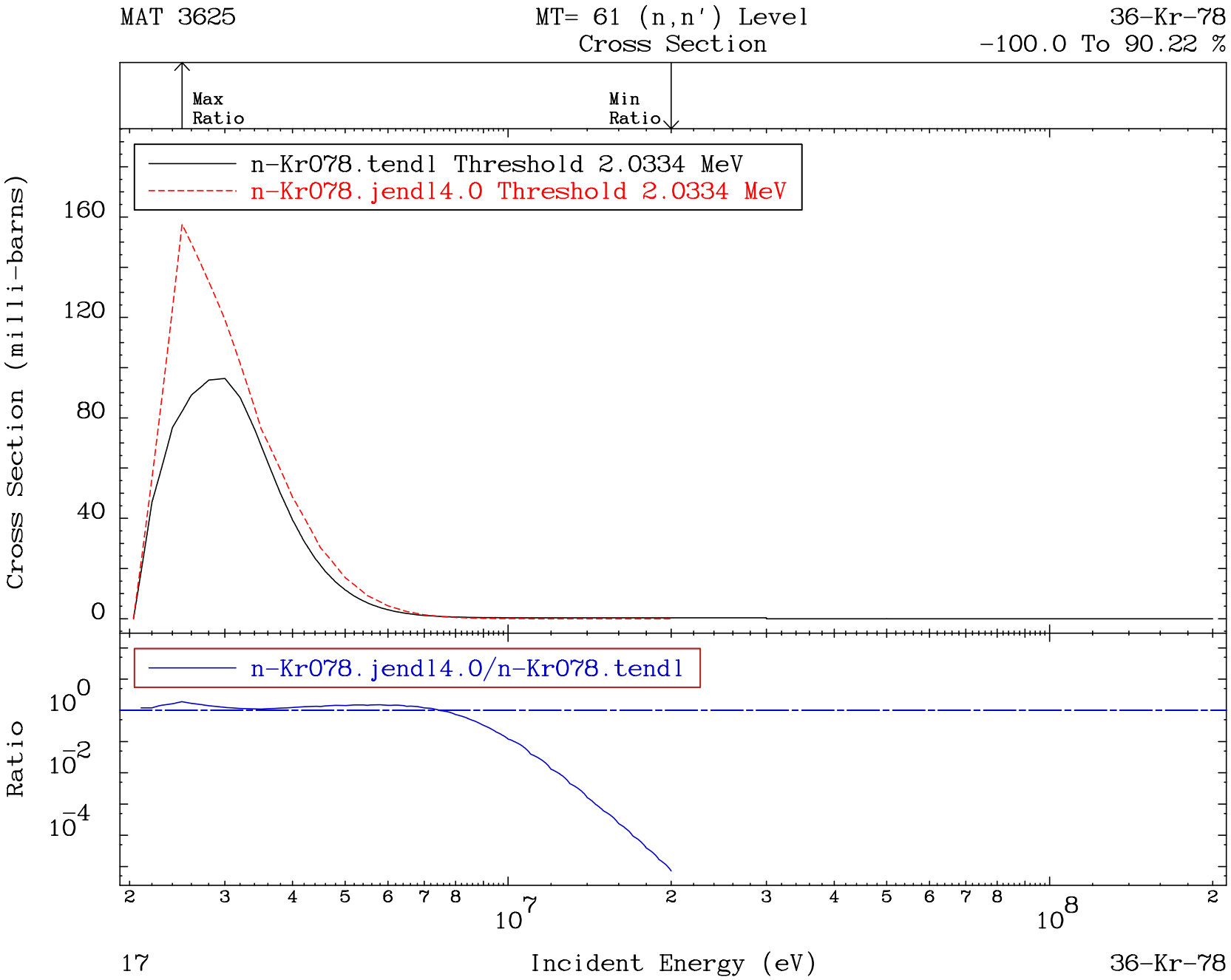

MAT 3625
MT= 56 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 49.42 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 1.6753 MeV
n-Kr078.jendl4.0 Threshold 1.6753 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
36-Kr-78

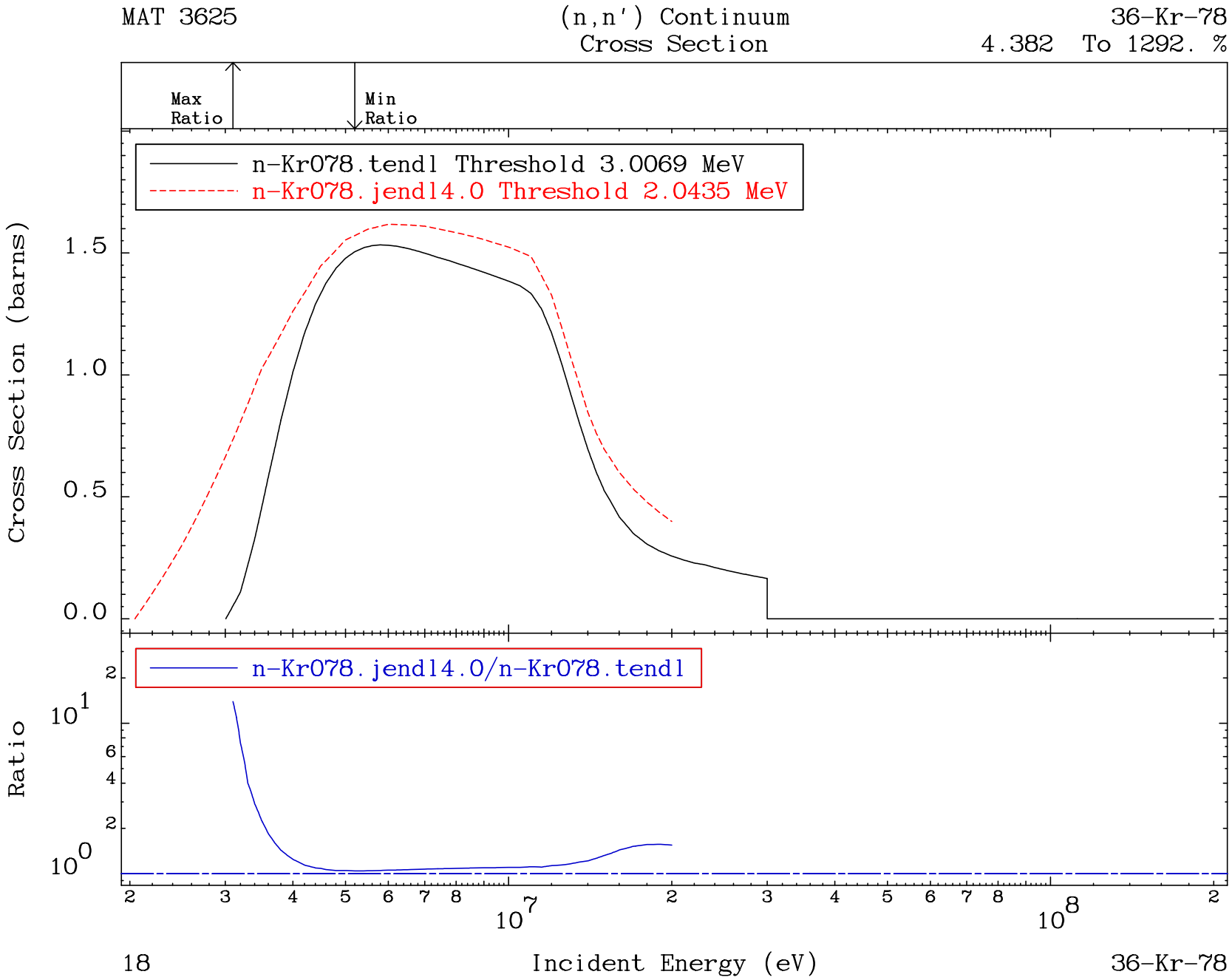

MAT 3625
MT= 57 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 76.66 %
Max
Ratio
Min
Ratio
n-Kr078.tendl Threshold 1.7786 MeV
n-Kr078.jendl4.0 Threshold 1.7786 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
36-Kr-78

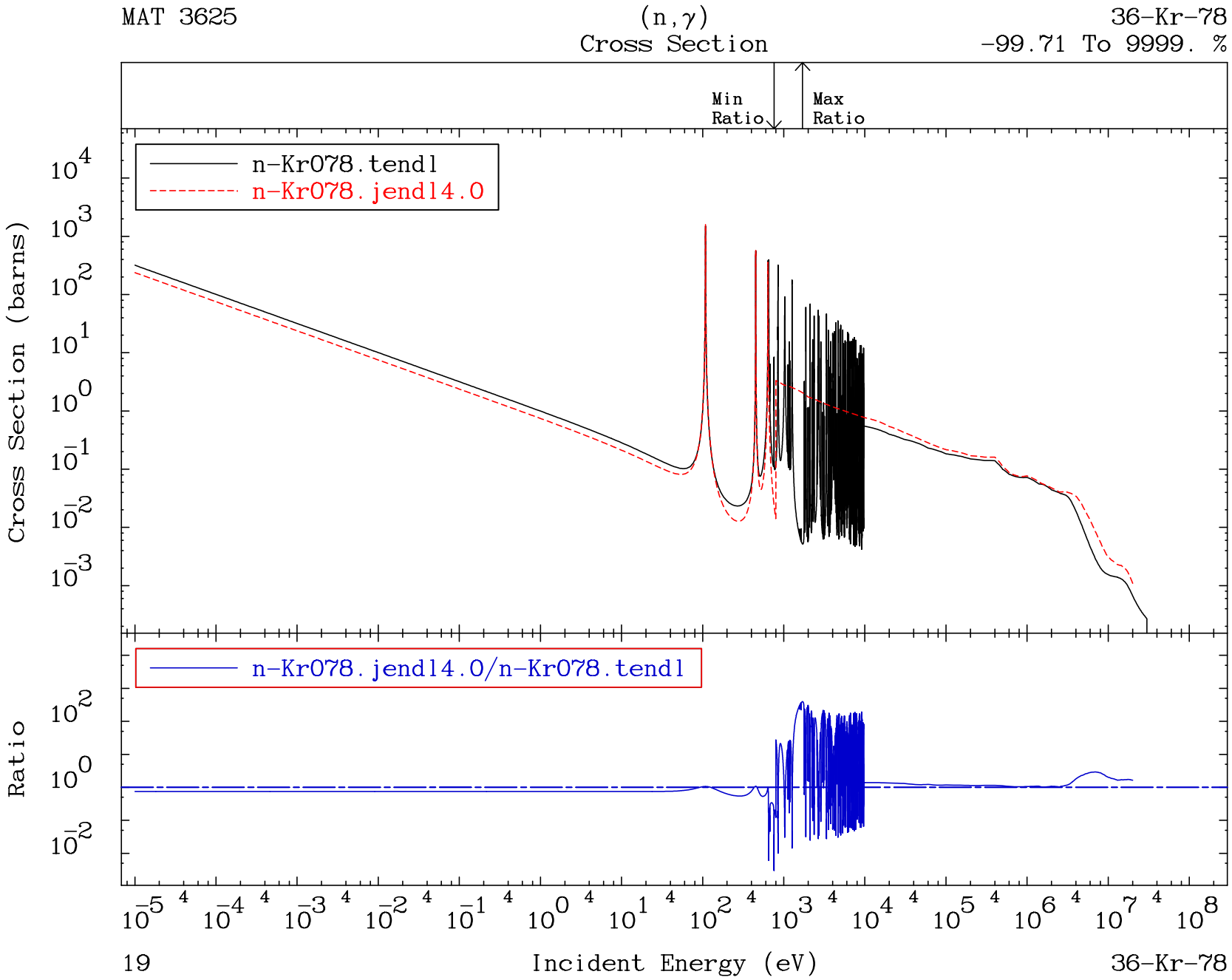

MAT 3625
MT= 58 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 76.75 %
Max
Ratio
Min
Ratio
n-Kr078.tendl Threshold 1.7959 MeV
n-Kr078.jendl4.0 Threshold 1.7959 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
36-Kr-78

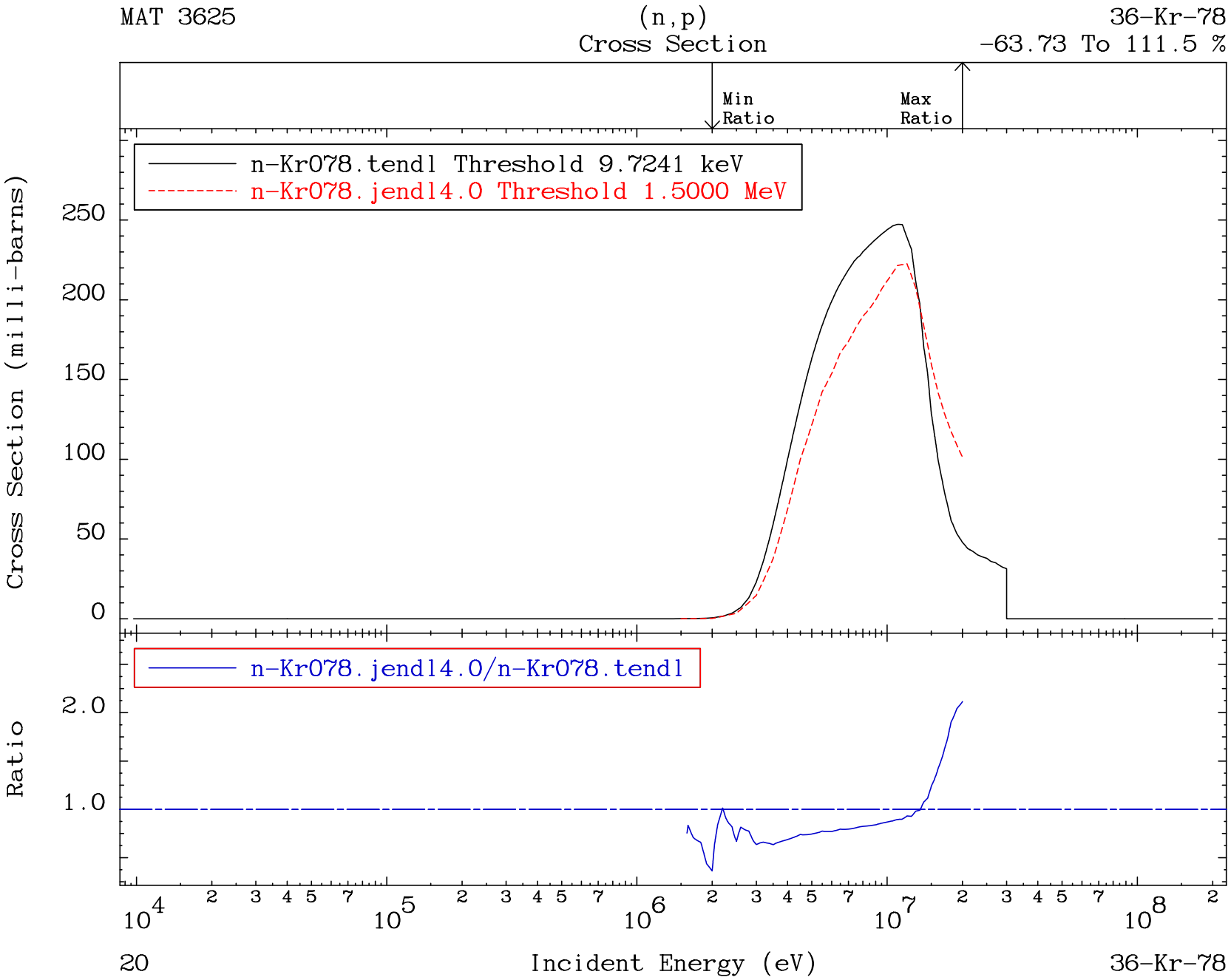

MAT 3625
MT= 59 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 81.87 %
Max
Ratio
Min
Ratio
n-Kr078.tendl Threshold 1.8972 MeV
n-Kr078.jendl4.0 Threshold 1.8972 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
36-Kr-78

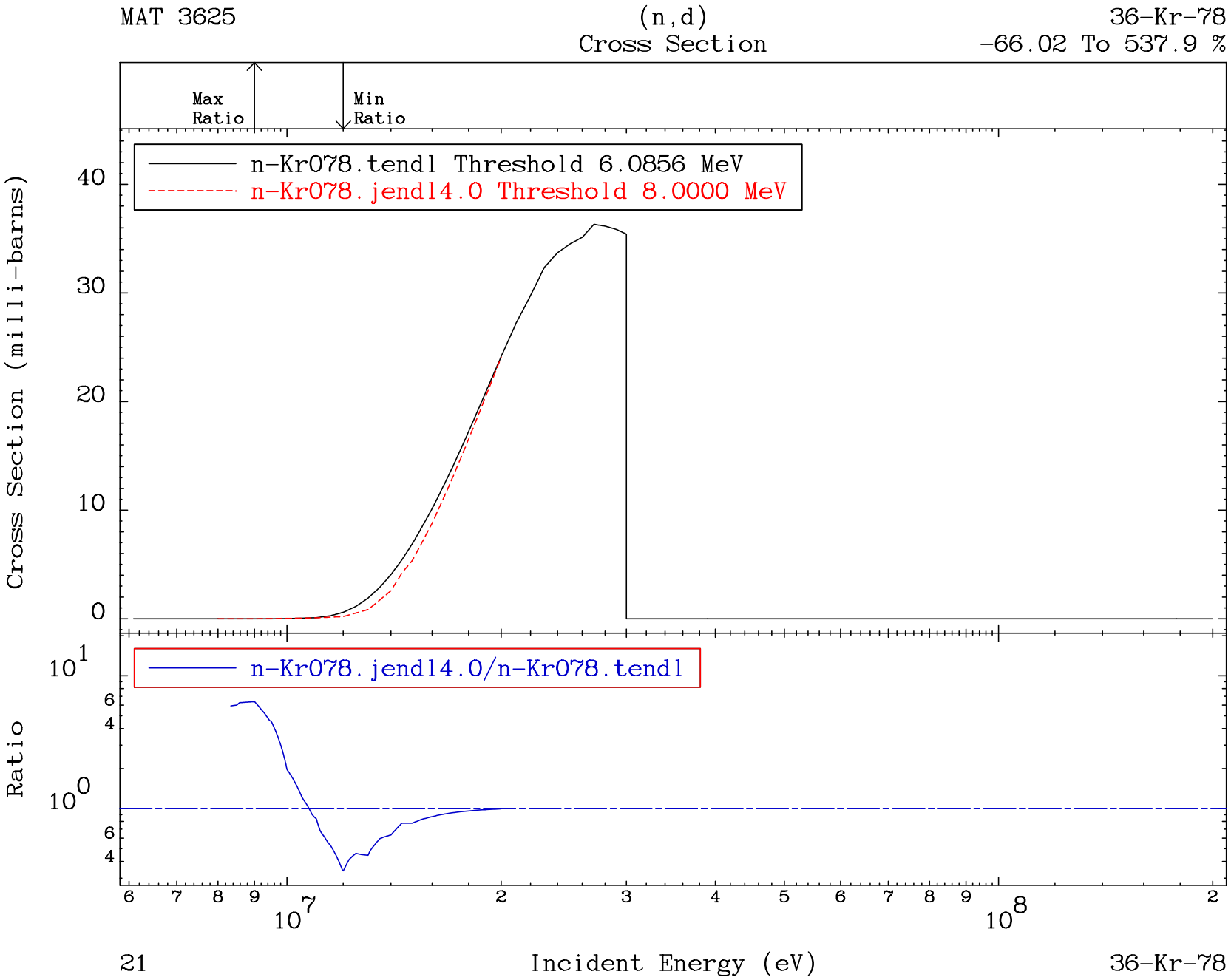

MAT 3625
MT= 60 (n,n') Level
Cross Section
36-Kr-78
2.766 To 538.4 %
Min Ratio
Max Ratio
n-Kr078.tendl Threshold 2.0035 MeV
n-Kr078.jendl4.0 Threshold 2.0035 MeV
Cross Section (milli-barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
16
36-Kr-78

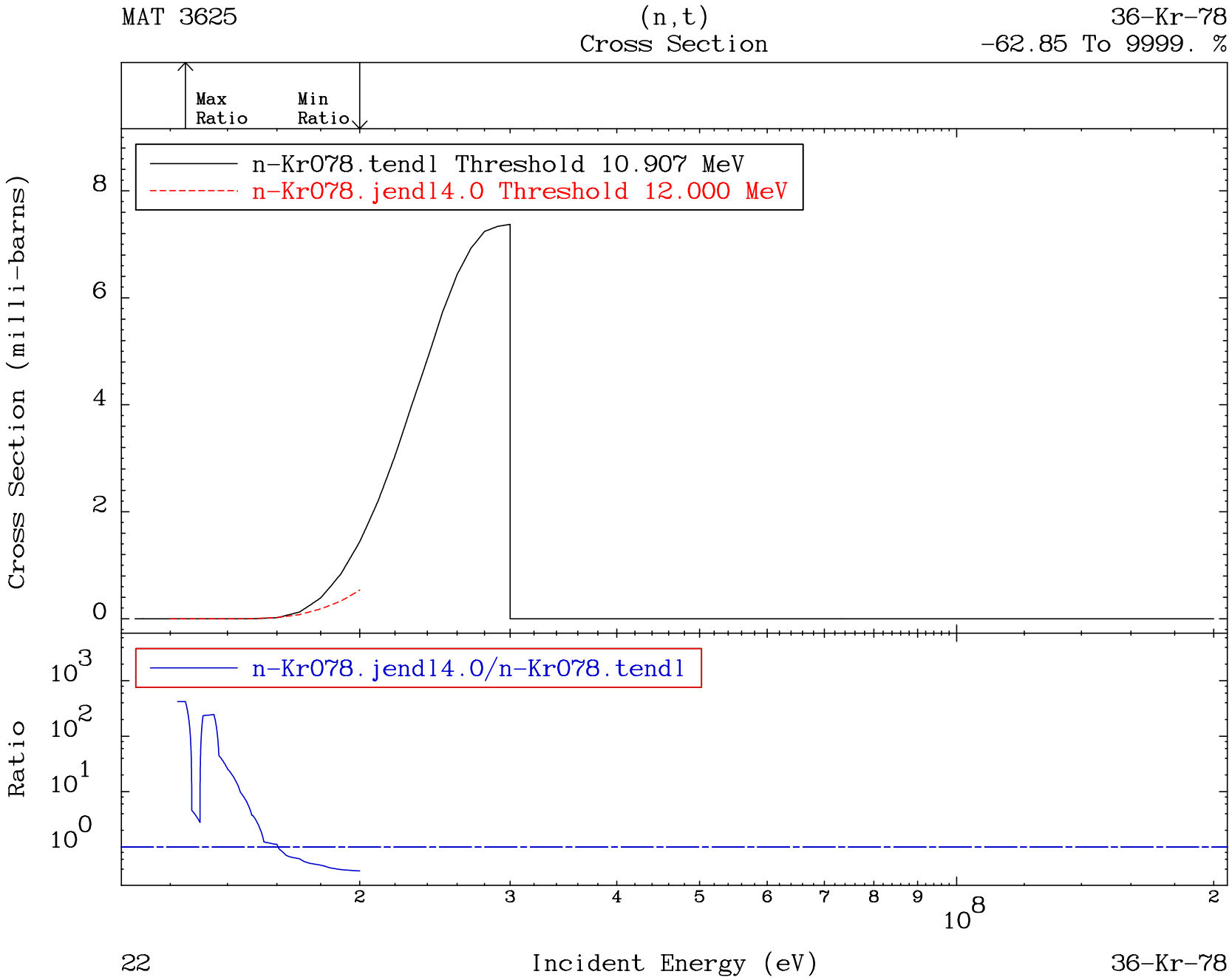

MAT 3625
MT= 61 (n,n') Level
Cross Section
36-Kr-78
-100.0 To 90.22 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 2.0334 MeV
n-Kr078.jendl4.0 Threshold 2.0334 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
36-Kr-78

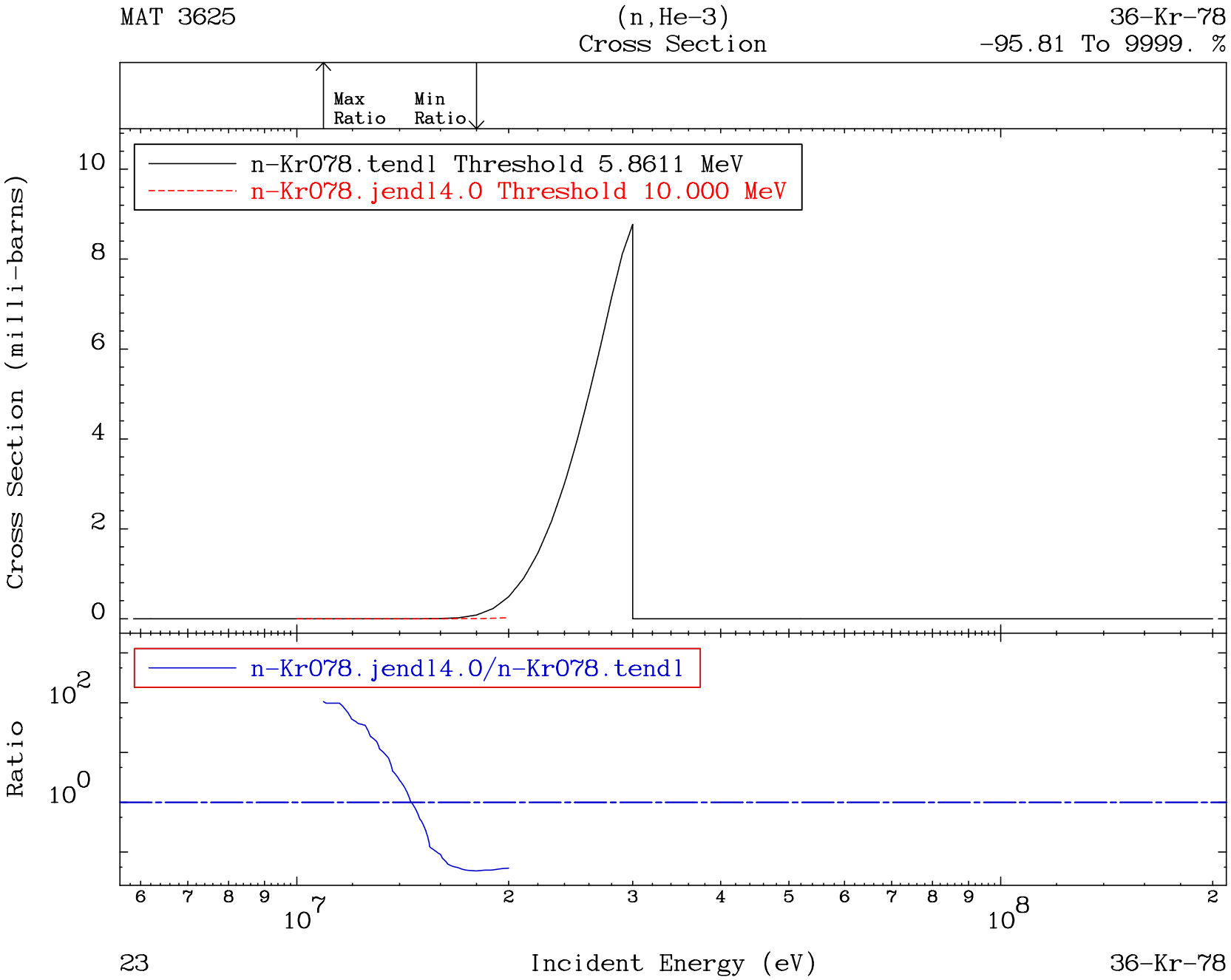

MAT 3625
(n,n') Continuum
Cross Section
36-Kr-78
4.382 To 1292. %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 3.0069 MeV
n-Kr078.jendl4.0 Threshold 2.0435 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^1
10^0
2
6
4
2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
36-Kr-78

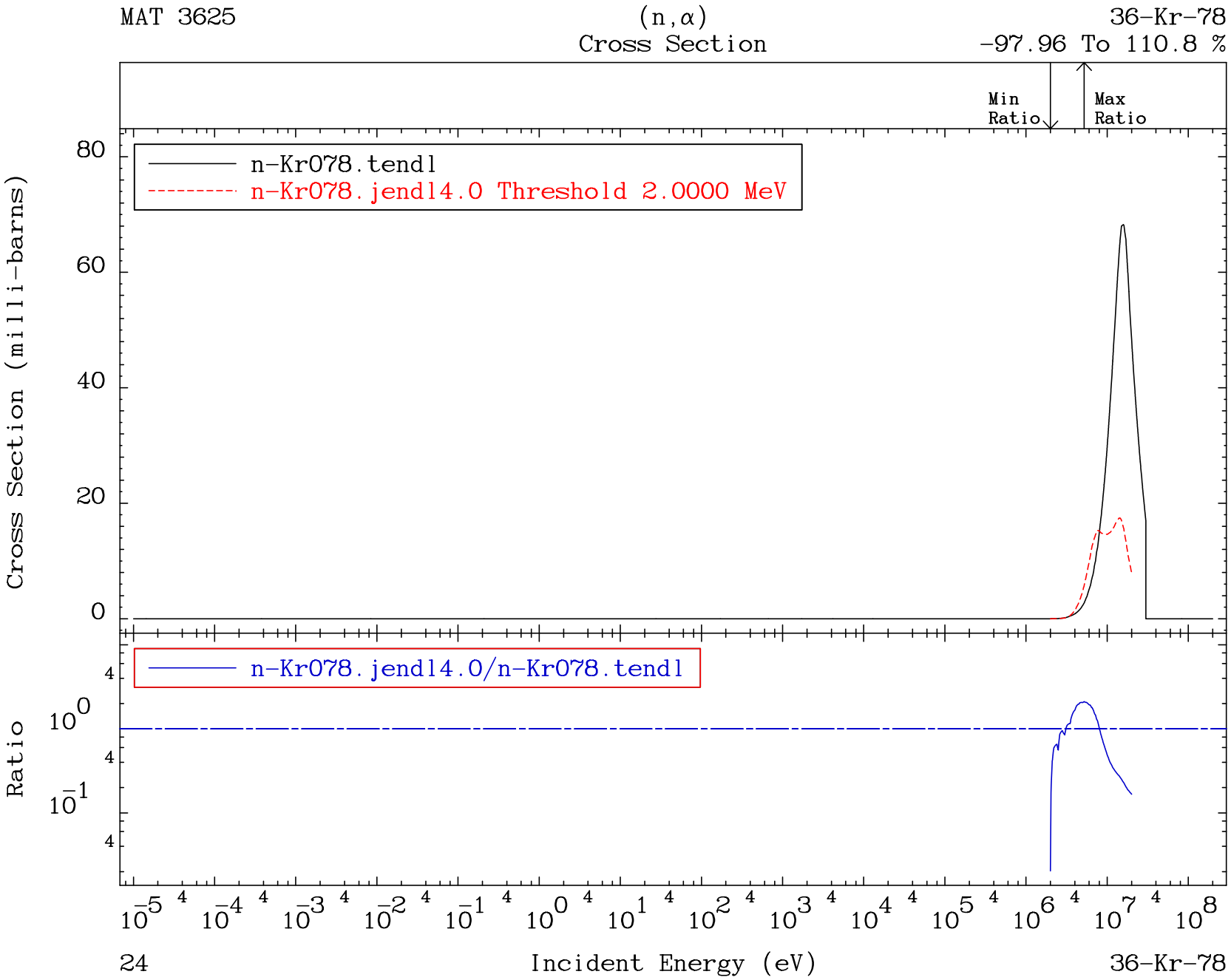

MAT 3625
(n,γ)
Cross Section
36-Kr-78
-99.71 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
19
36-Kr-78

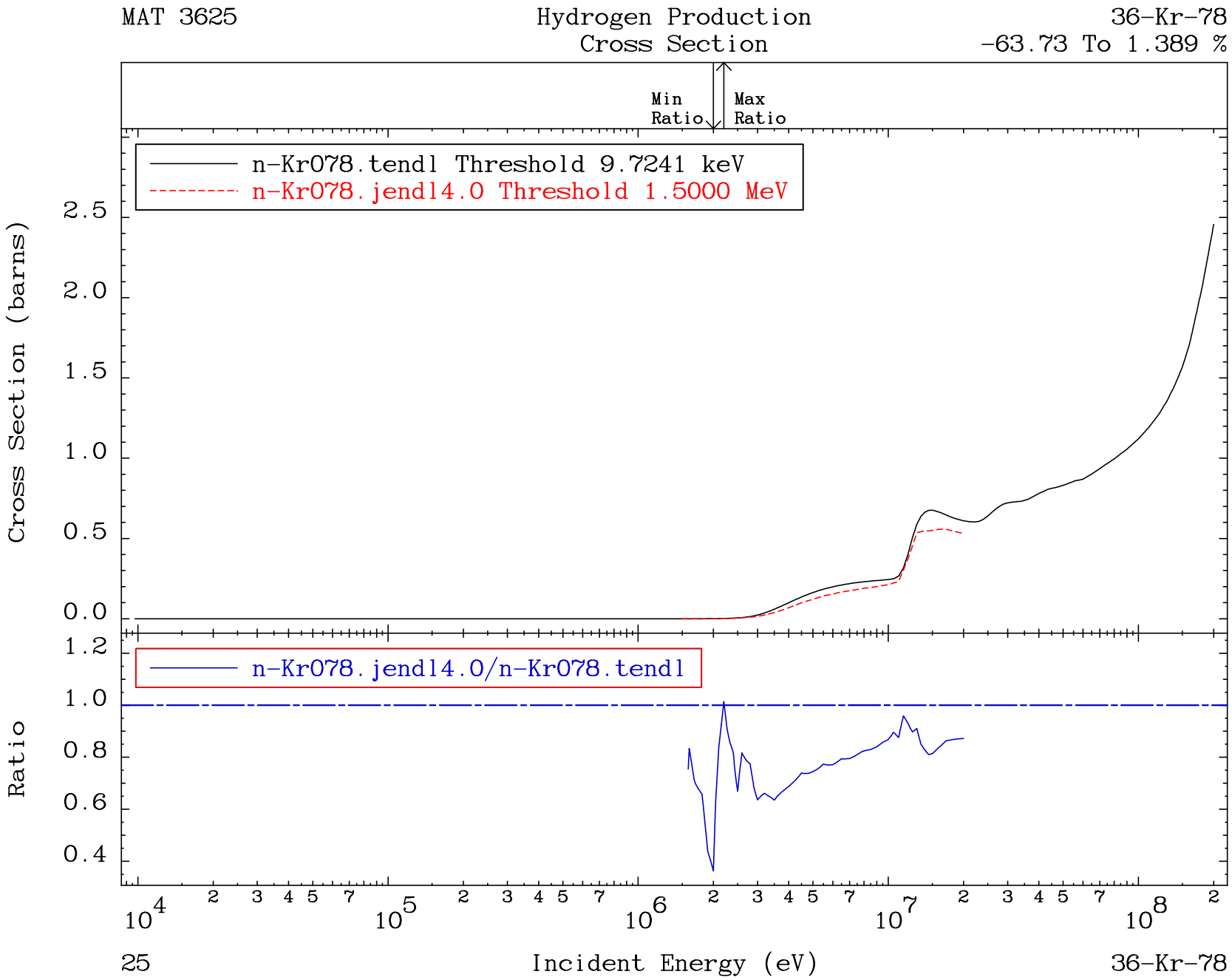

MAT 3625
(n,p)
Cross Section
36-Kr-78
-63.73 To 111.5 %
Min Ratio
Max Ratio
n-Kr078.tendl Threshold 9.7241 keV
n-Kr078.jendl4.0 Threshold 1.5000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
2.0
1.0
10^4
10^5
10^6
10^7
10^8
20
Incident Energy (eV)
36-Kr-78

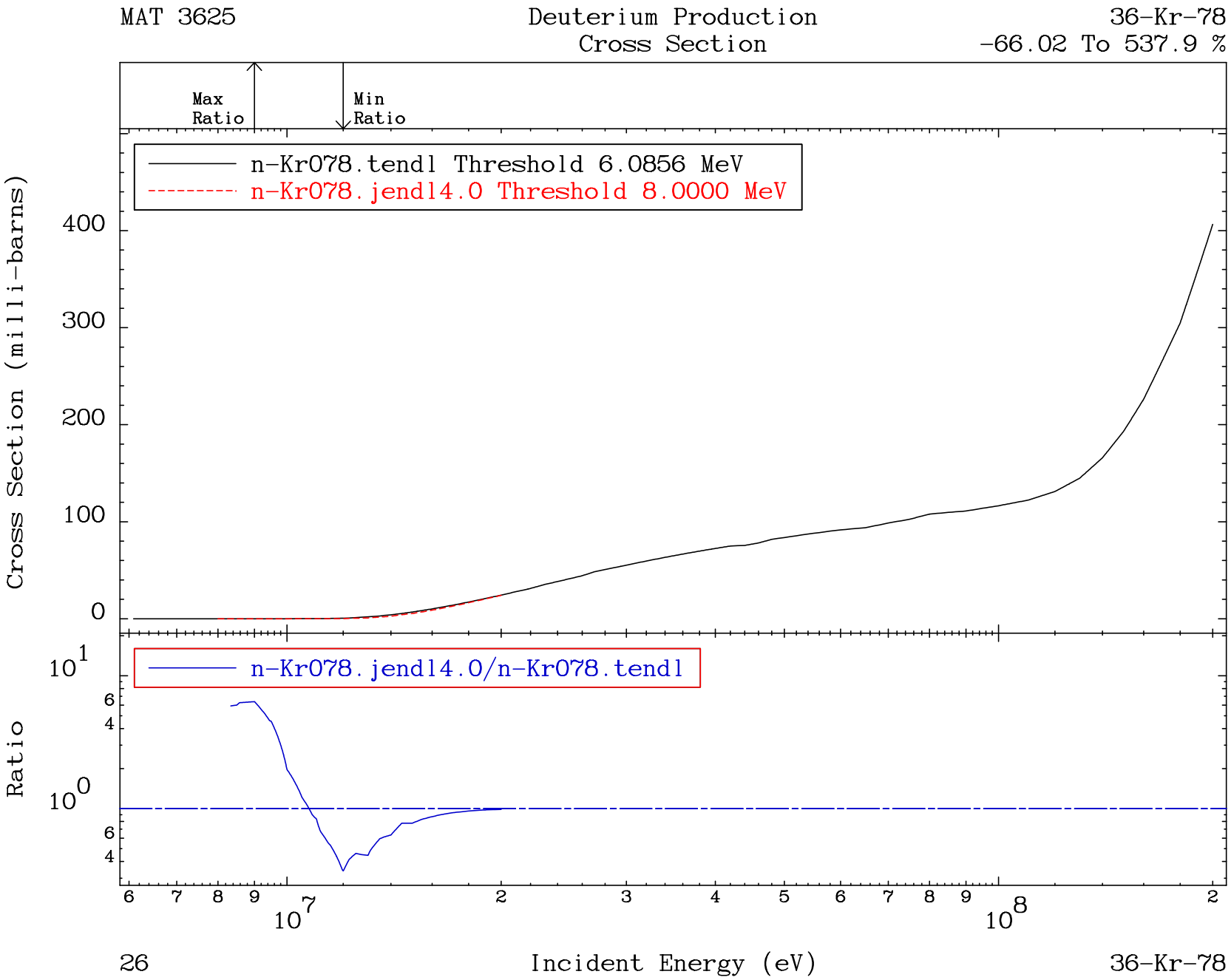

MAT 3625
(n,d)
Cross Section
36-Kr-78
-66.02 To 537.9 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 6.0856 MeV
n-Kr078.jendl4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^1
10^0
6
4
6
4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
36-Kr-78

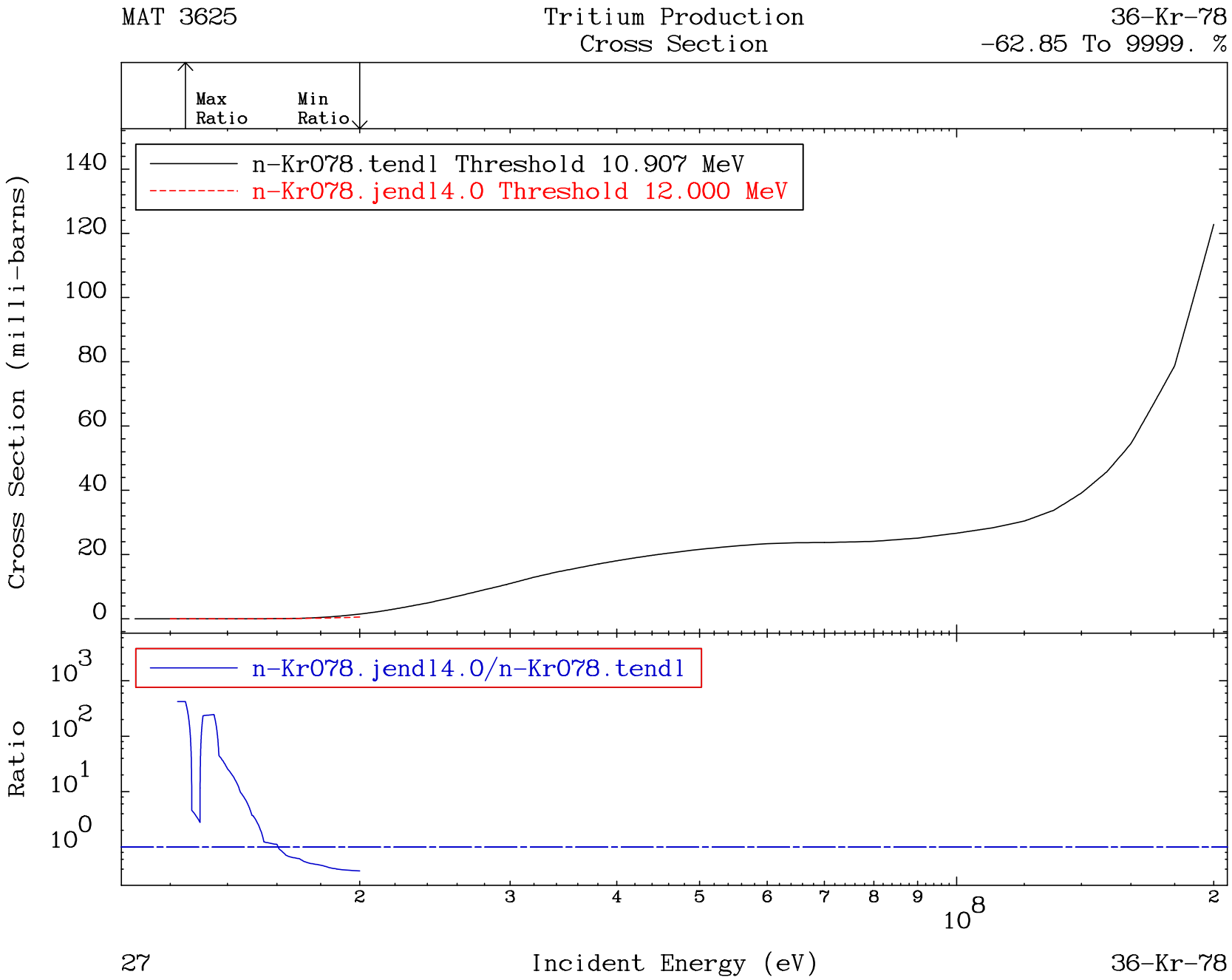

MAT 3625
(n,t)
Cross Section
36-Kr-78
-62.85 To 9999. %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 10.907 MeV
n-Kr078.jendl4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^1
10^2
10^3
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
36-Kr-78

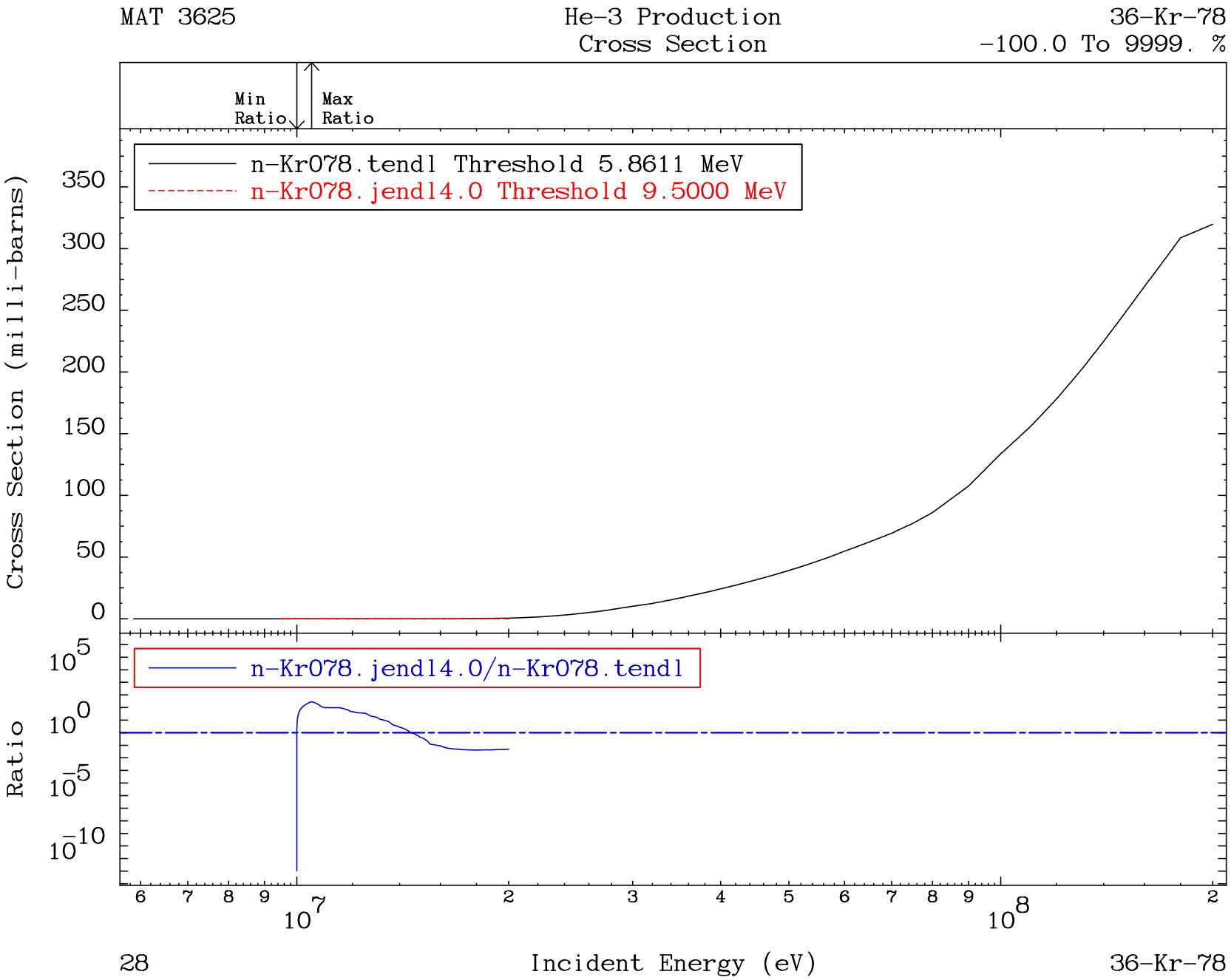

MAT 3625
(n,He-3)
Cross Section
36-Kr-78
-95.81 To 9999. %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 5.8611 MeV
n-Kr078.jendl4.0 Threshold 10.000 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
36-Kr-78

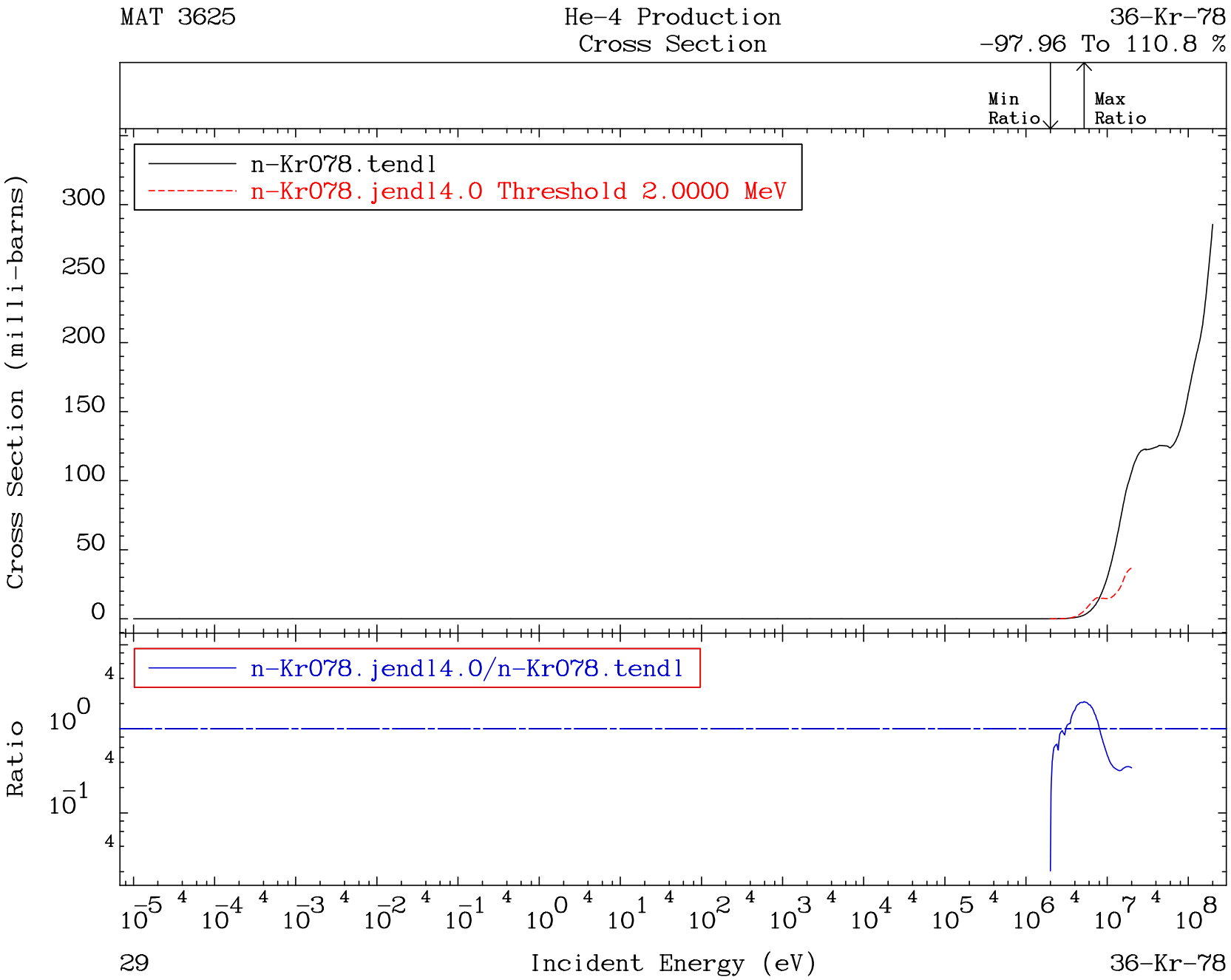

MAT 3625
(n,α)
Cross Section
36-Kr-78
-97.96 To 110.8 %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0 Threshold 2.0000 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^0
10^-1
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
24
Incident Energy (eV)
36-Kr-78

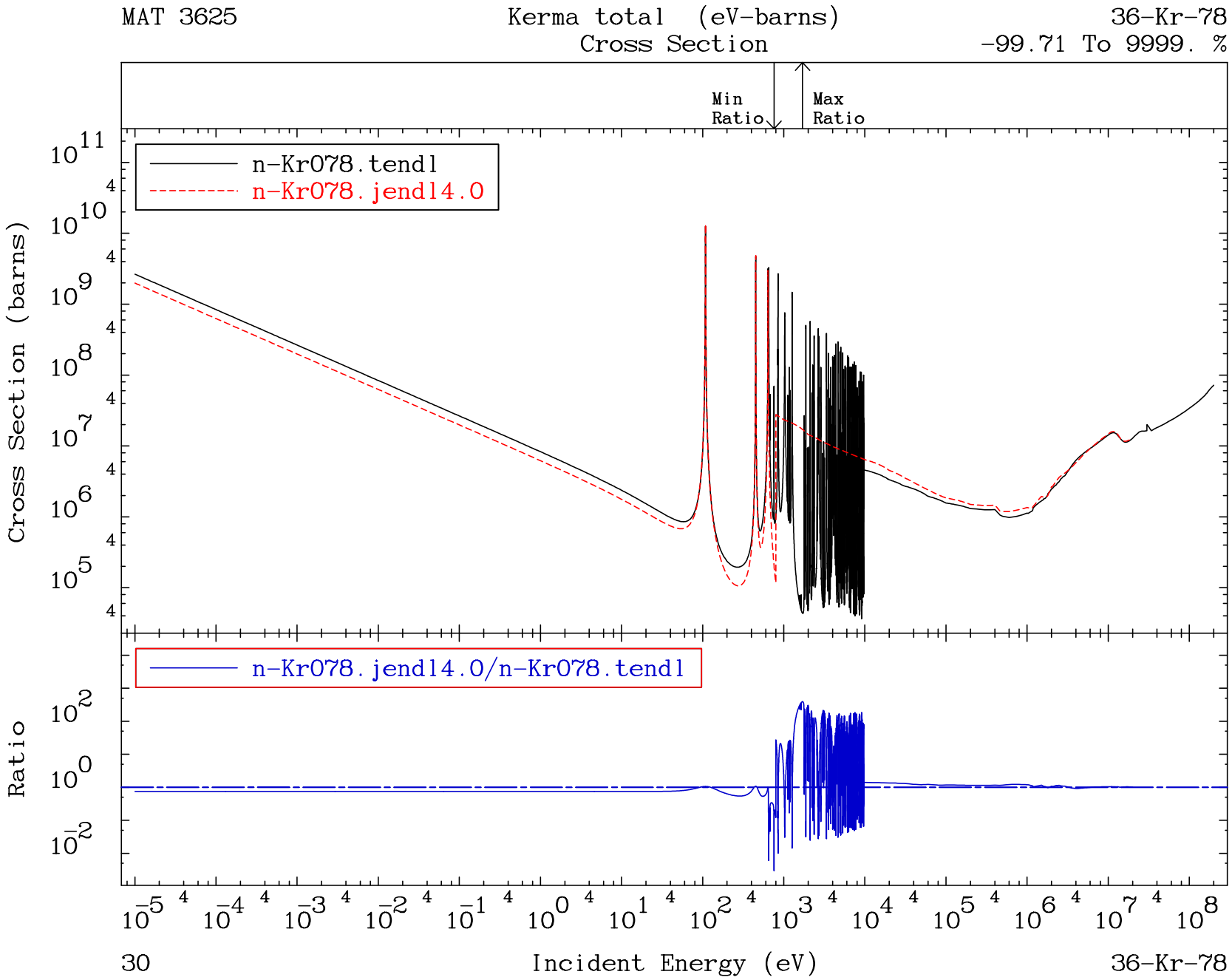

MAT 3625
Hydrogen Production
Cross Section
36-Kr-78
-63.73 To 1.389 %
Min Ratio
Max Ratio
n-Kr078.tendl Threshold 9.7241 keV
n-Kr078.jendl4.0 Threshold 1.5000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
1.2
1.0
0.8
0.6
0.4
10^4
10^5
10^6
10^7
10^8
25
Incident Energy (eV)
36-Kr-78

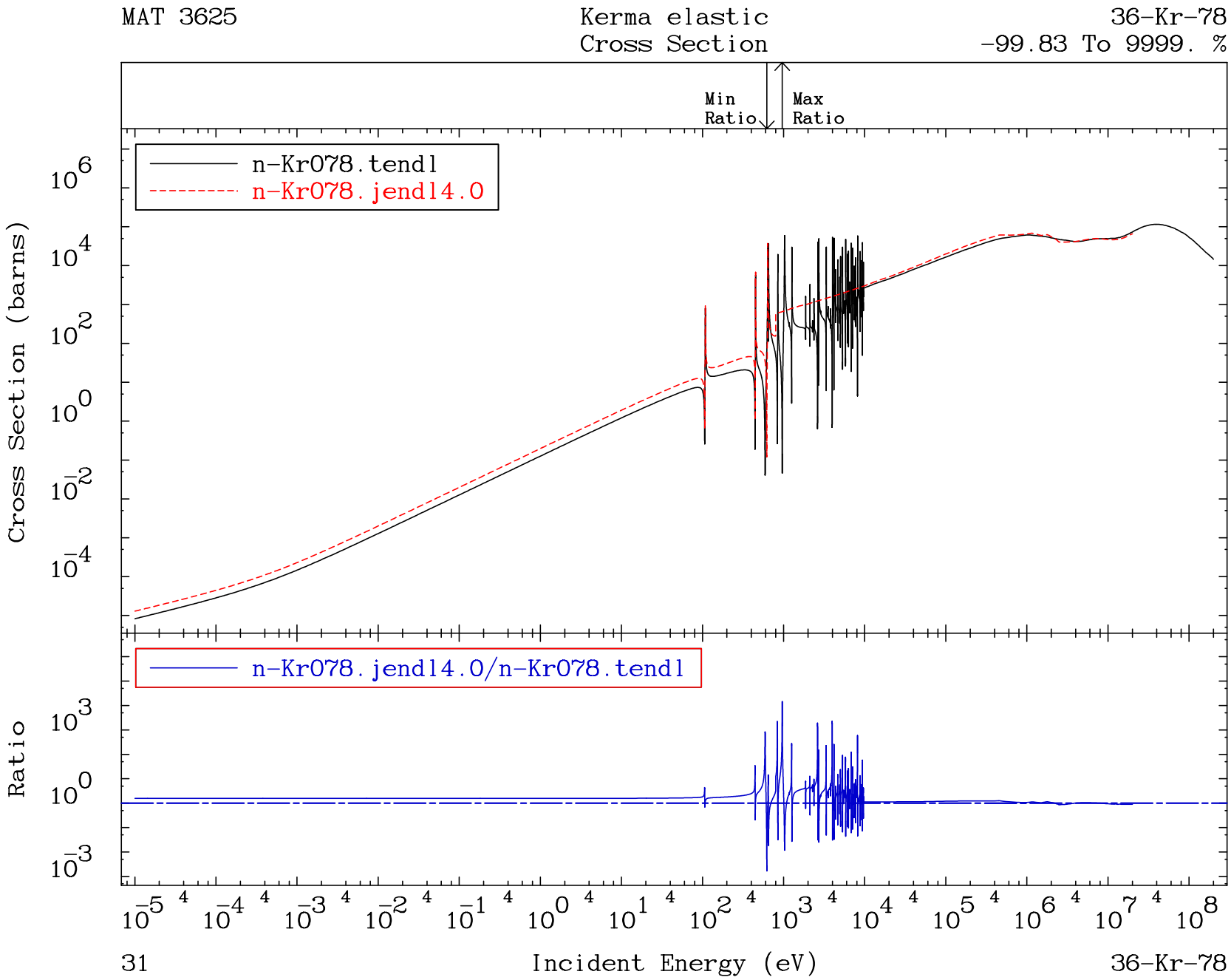

MAT 3625
Deuterium Production
Cross Section
36-Kr-78
-66.02 To 537.9 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 6.0856 MeV
n-Kr078.jendl4.0 Threshold 8.0000 MeV
Cross Section (milli-barns)
0
100
200
300
400
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^1
10^0
6
4
6
4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
36-Kr-78

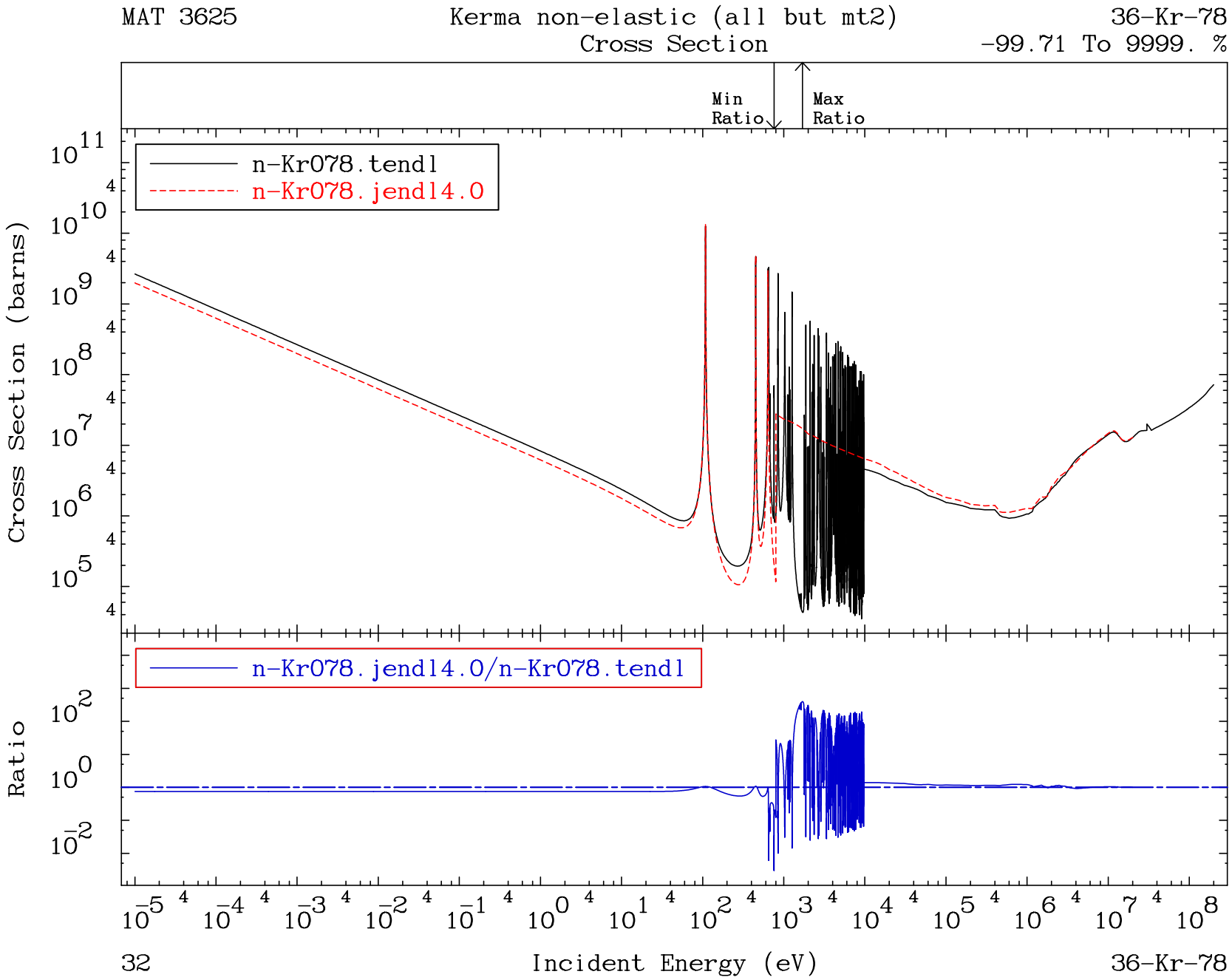

MAT 3625
Tritium Production
Cross Section
36-Kr-78
-62.85 To 9999. %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 10.907 MeV
n-Kr078.jendl4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
36-Kr-78

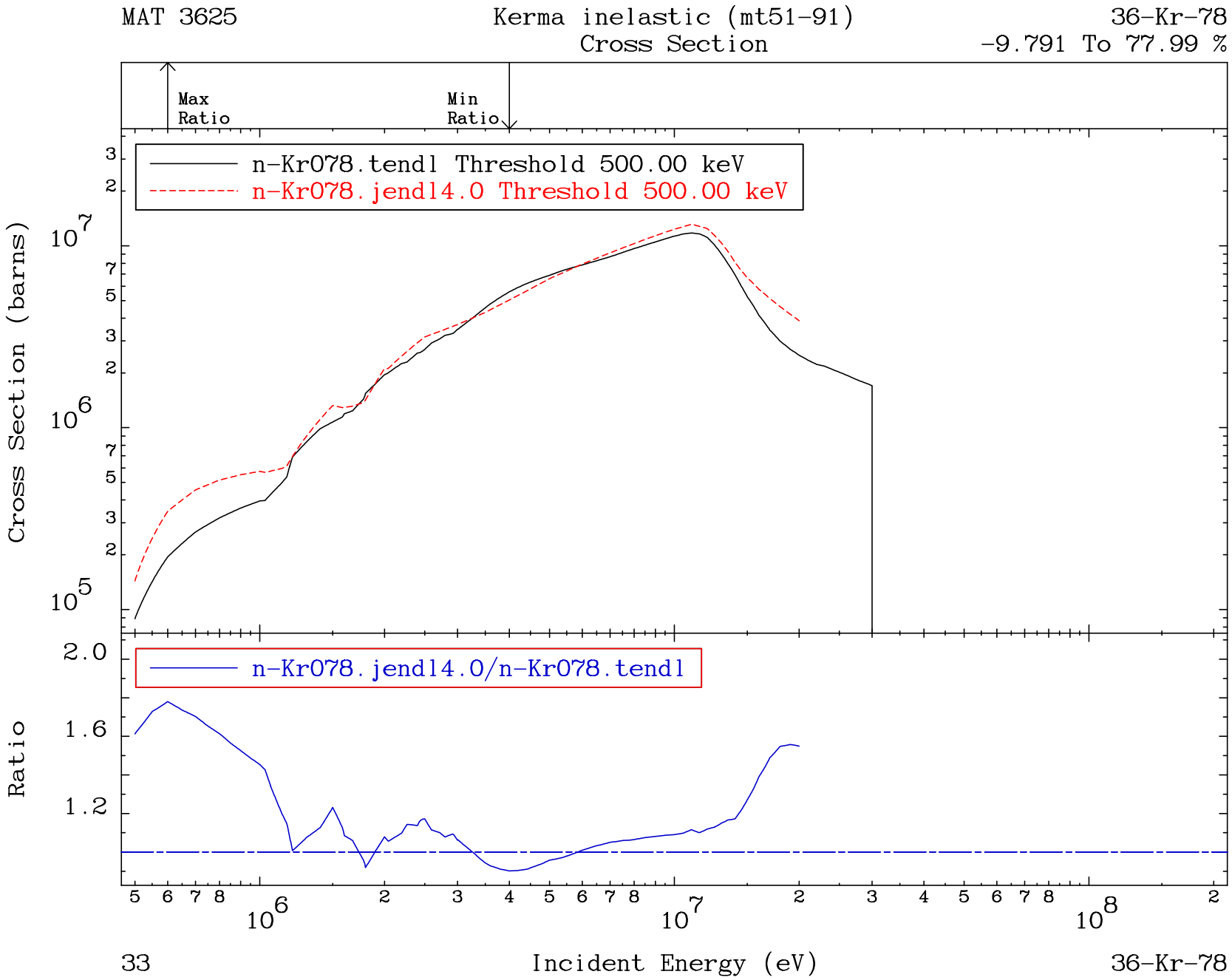

MAT 3625
He-3 Production
Cross Section
36-Kr-78
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl Threshold 5.8611 MeV
n-Kr078.jendl4.0 Threshold 9.5000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^5
10^0
10^-5
10^-10
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
36-Kr-78

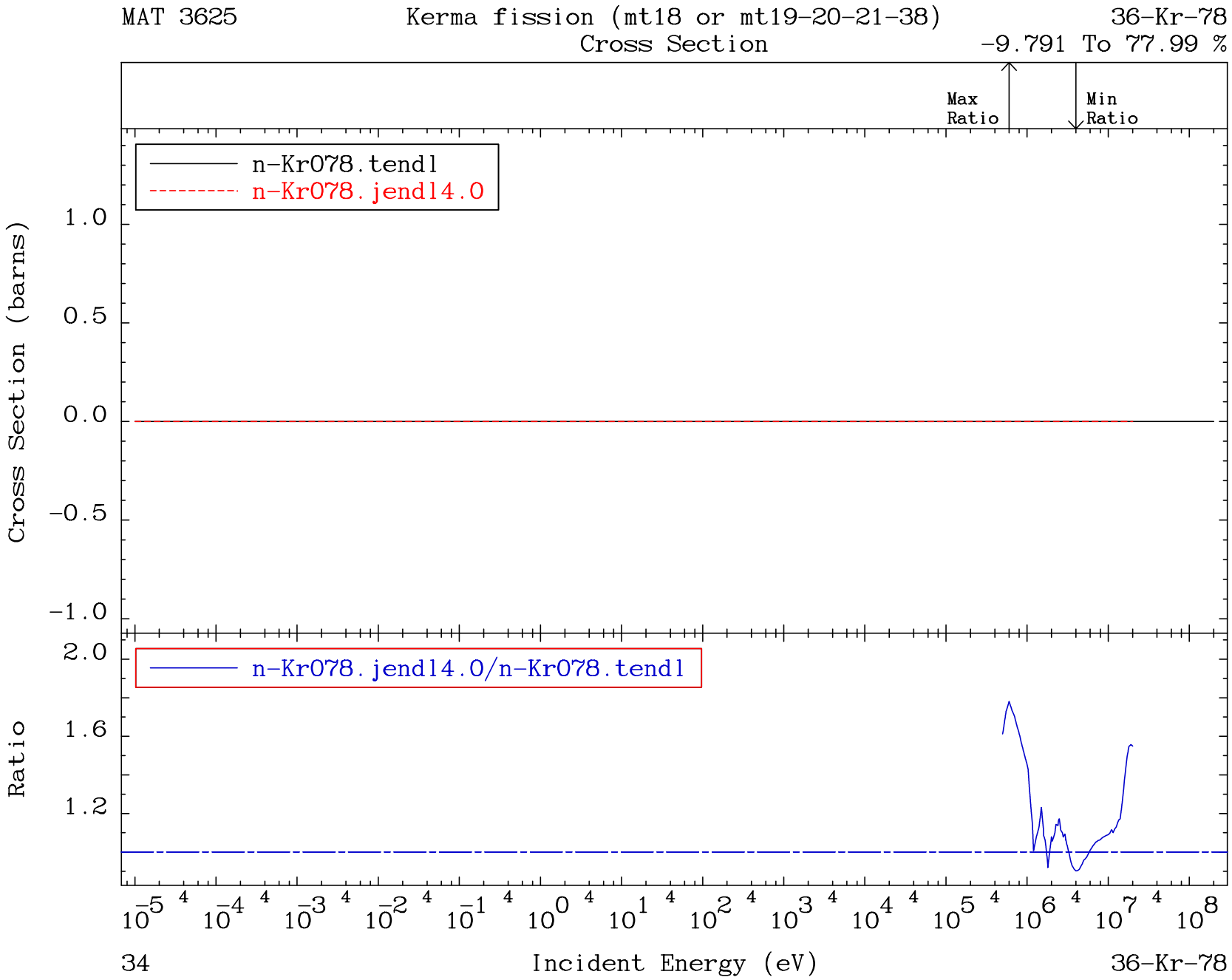

MAT 3625
He-4 Production
Cross Section
36-Kr-78
-97.96 To 110.8 %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0 Threshold 2.0000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^{0}
10^{-1}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
29
Incident Energy (eV)
36-Kr-78

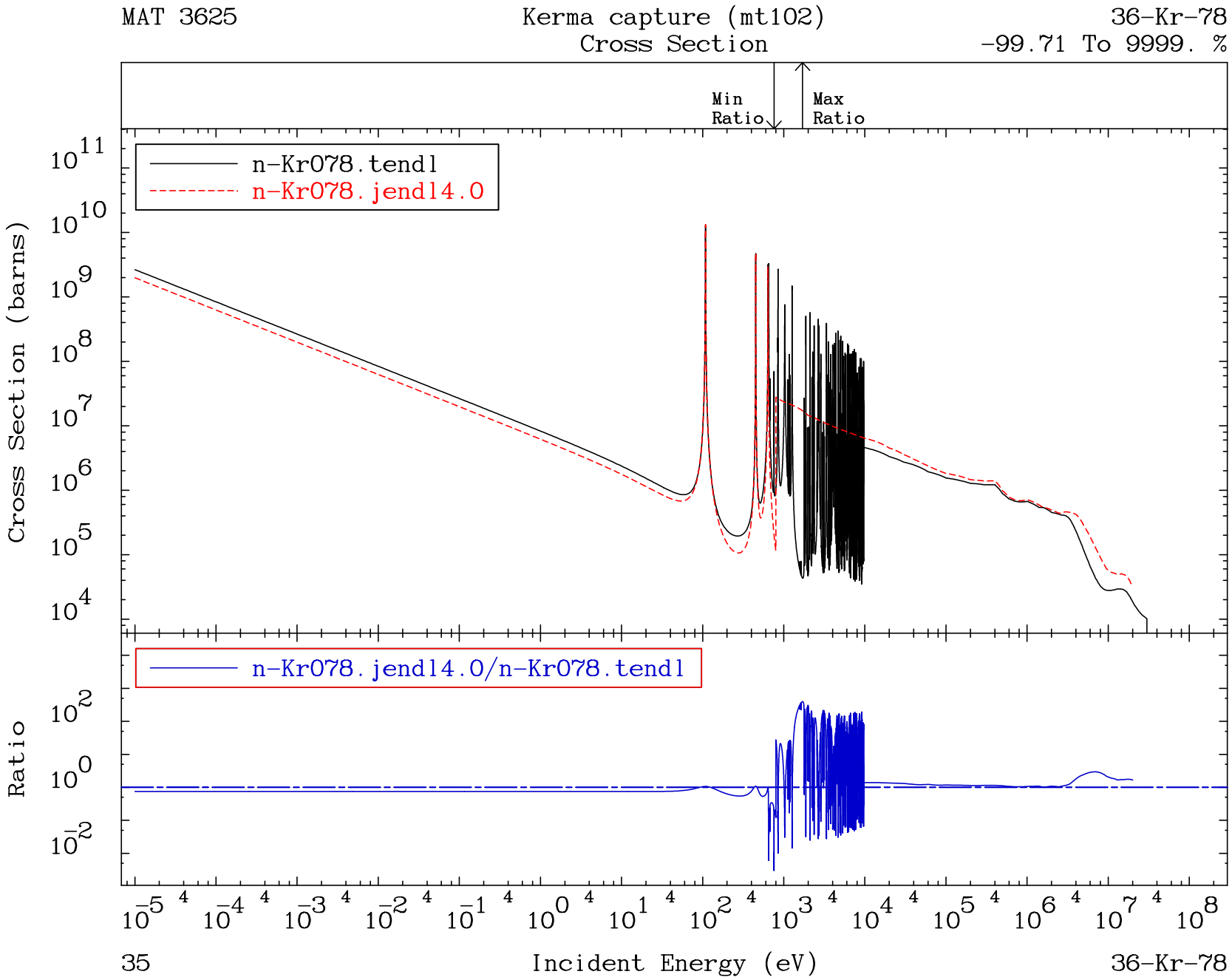

MAT 3625
Kerma total (eV-barns)
Cross Section
36-Kr-78
-99.71 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
30
36-Kr-78

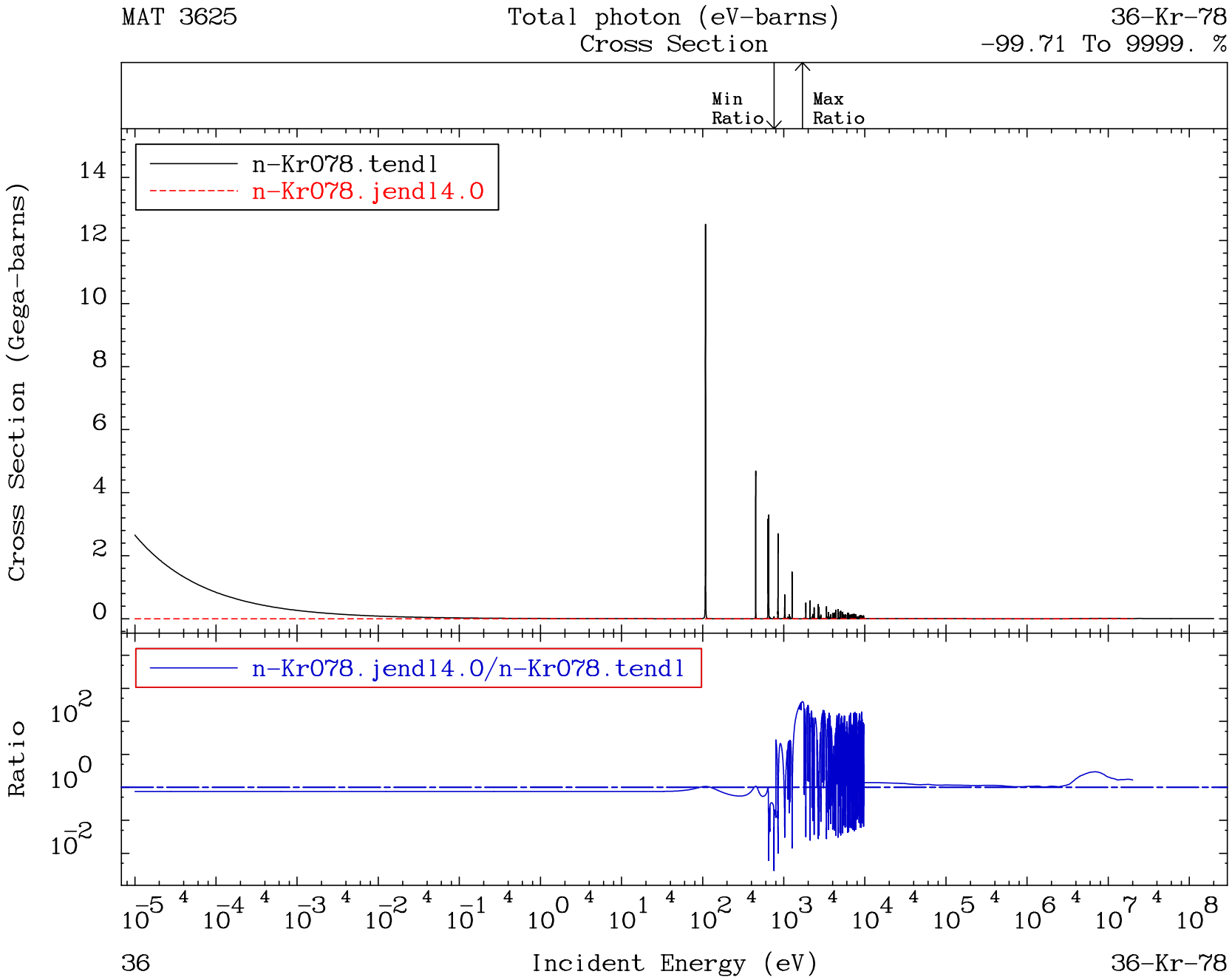

MAT 3625
Kerma elastic
Cross Section
36-Kr-78
-99.83 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
31
36-Kr-78

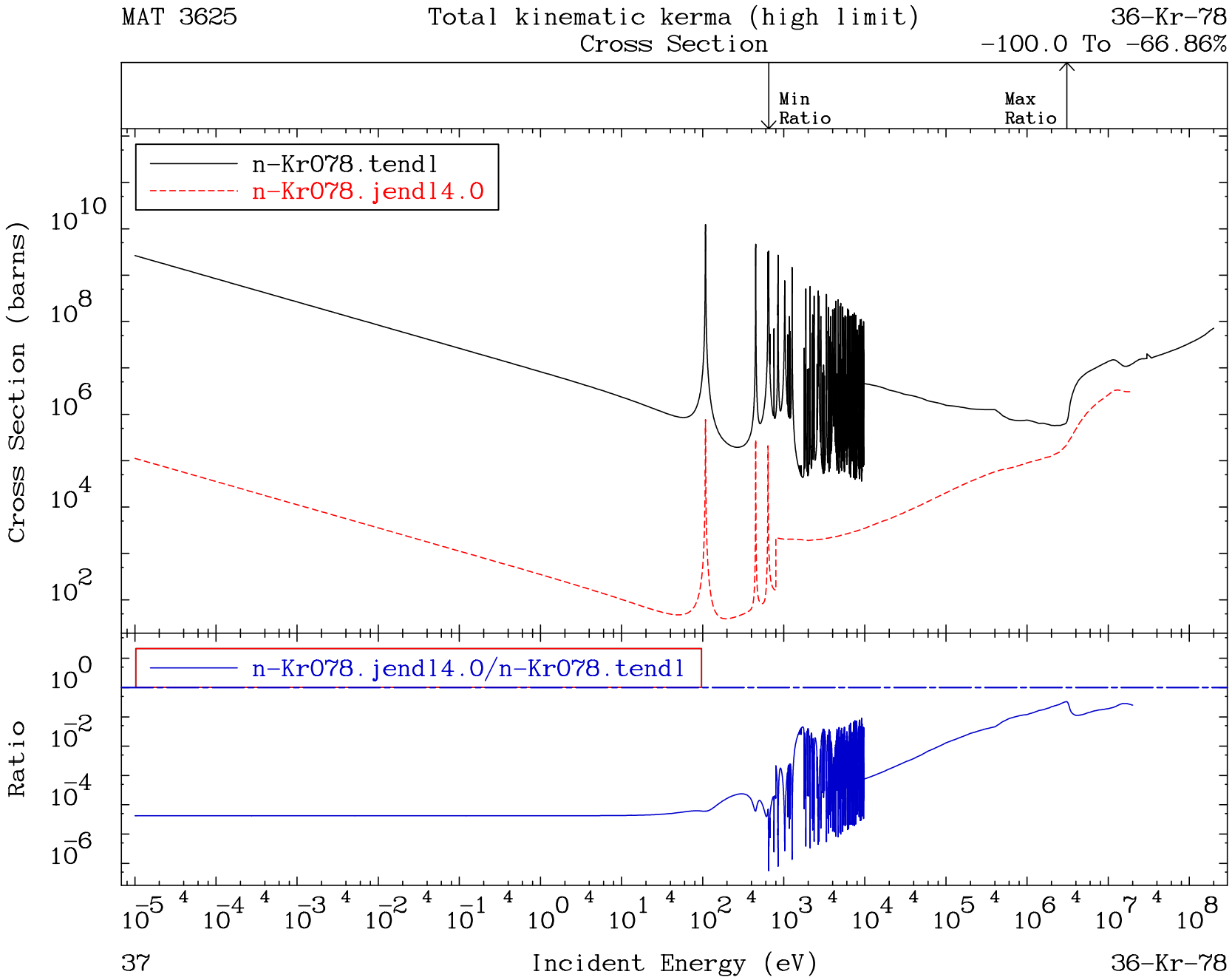

MAT 3625
Kerma non-elastic (all but mt2)
Cross Section
36-Kr-78
-99.71 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
32
Incident Energy (eV)
36-Kr-78

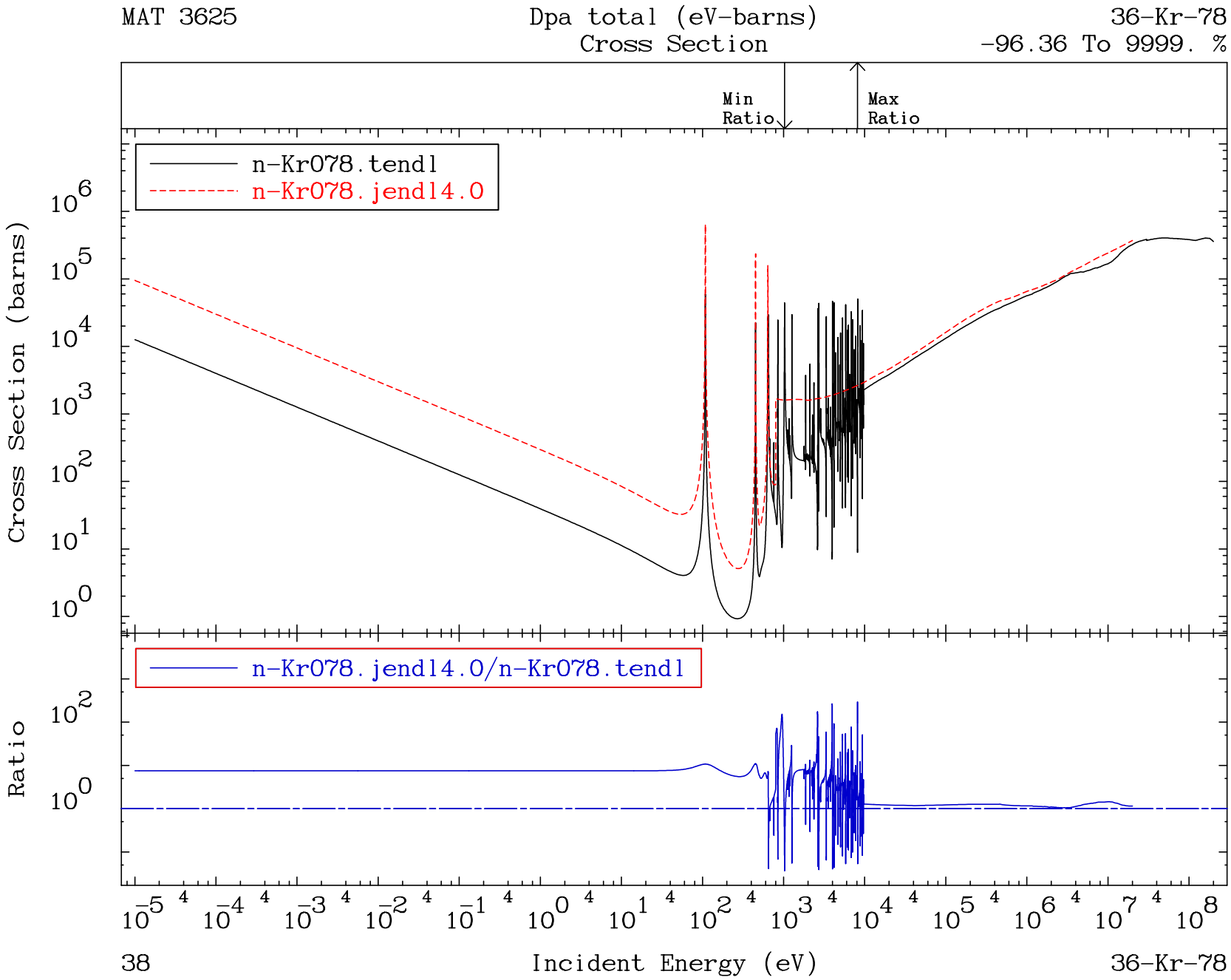

MAT 3625
Kerma inelastic (mt51-91)
Cross Section
36-Kr-78
-9.791 To 77.99 %
Max Ratio
Min Ratio
n-Kr078.tendl Threshold 500.00 keV
n-Kr078.jendl4.0 Threshold 500.00 keV
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
33
36-Kr-78

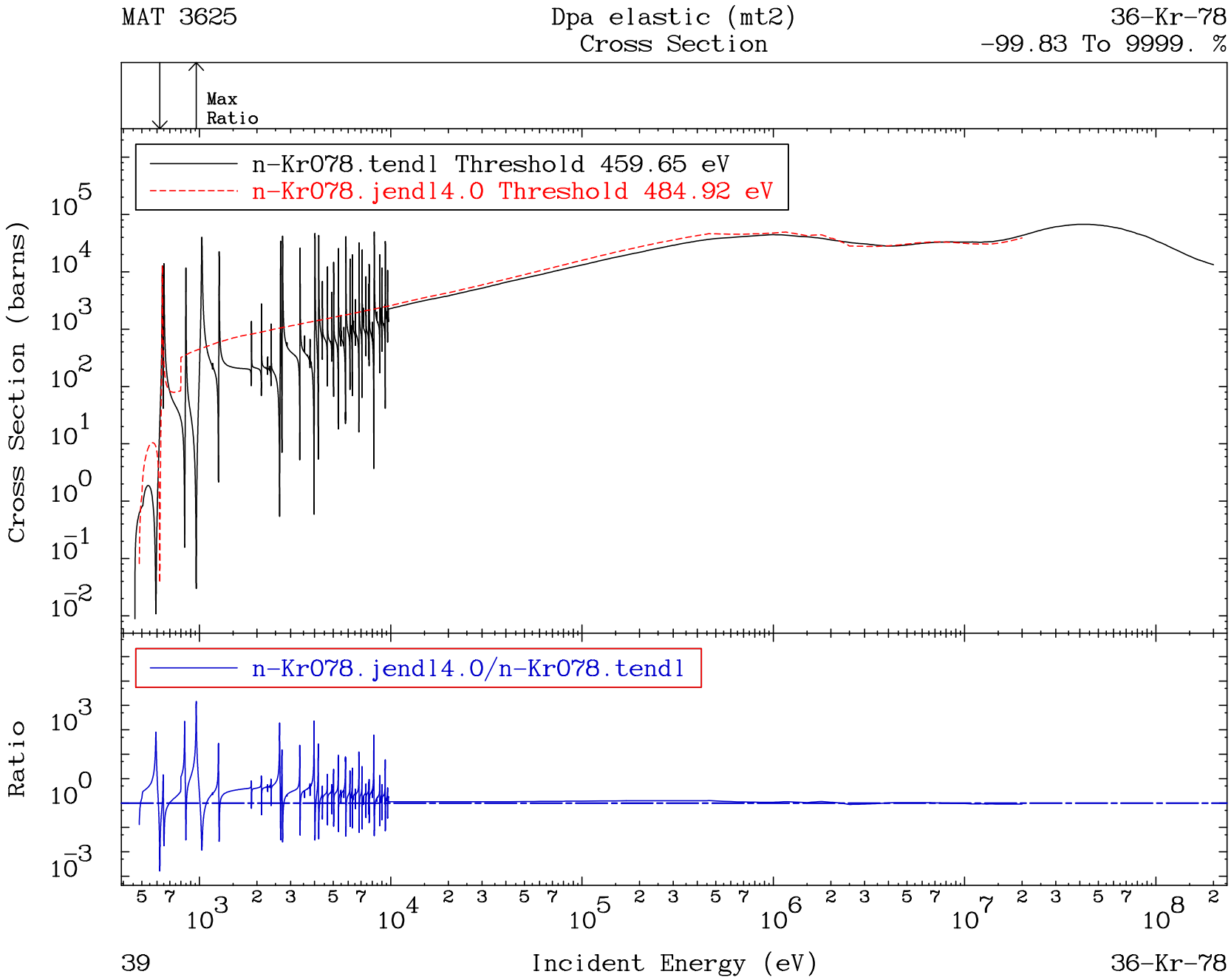

MAT 3625
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
36-Kr-78
-9.791 To 77.99 %
Max Ratio
Min Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
2.0
1.6
1.2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
36-Kr-78

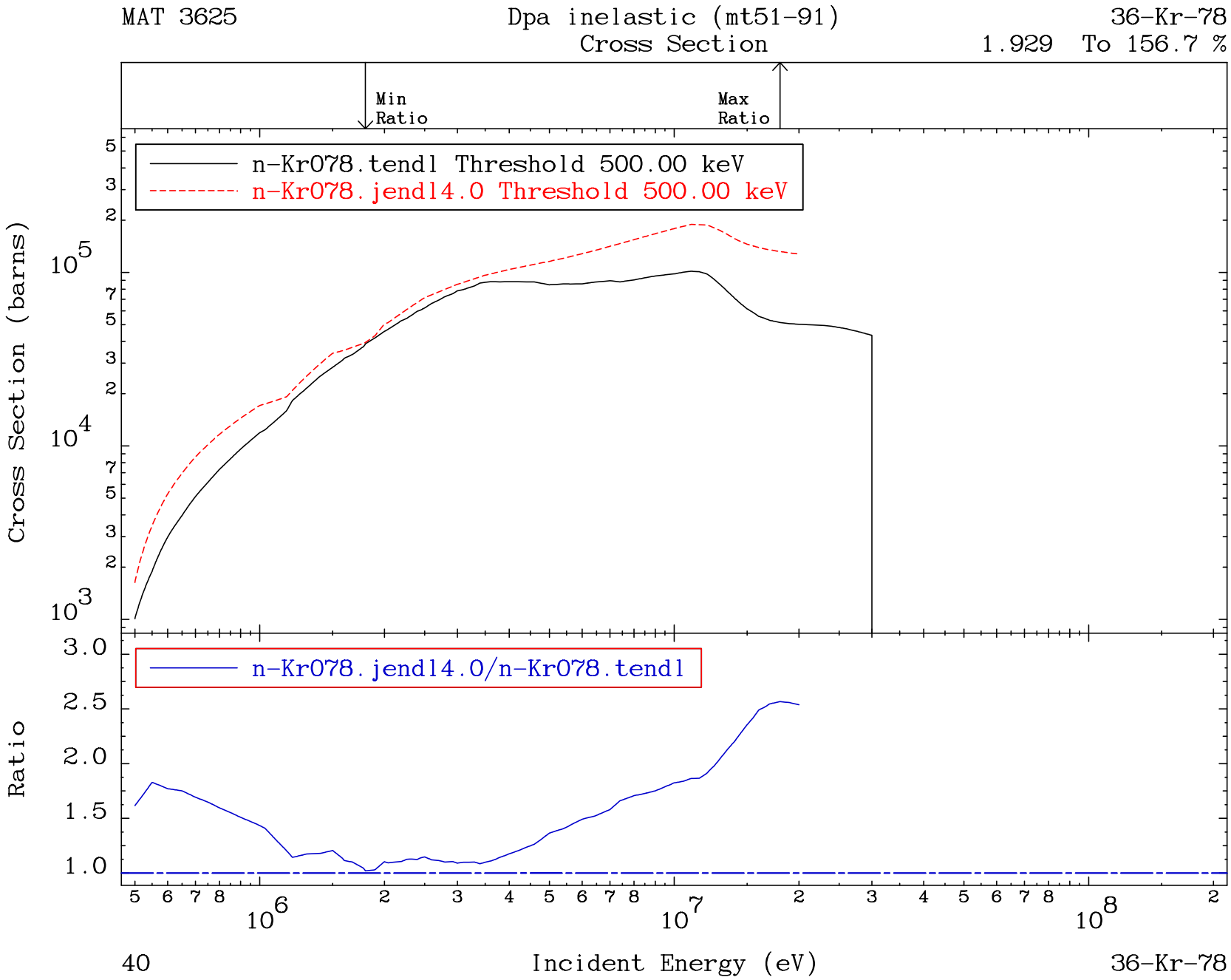

MAT 3625
Kerma capture (mt102)
Cross Section
36-Kr-78
-99.71 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
35
Incident Energy (eV)
36-Kr-78

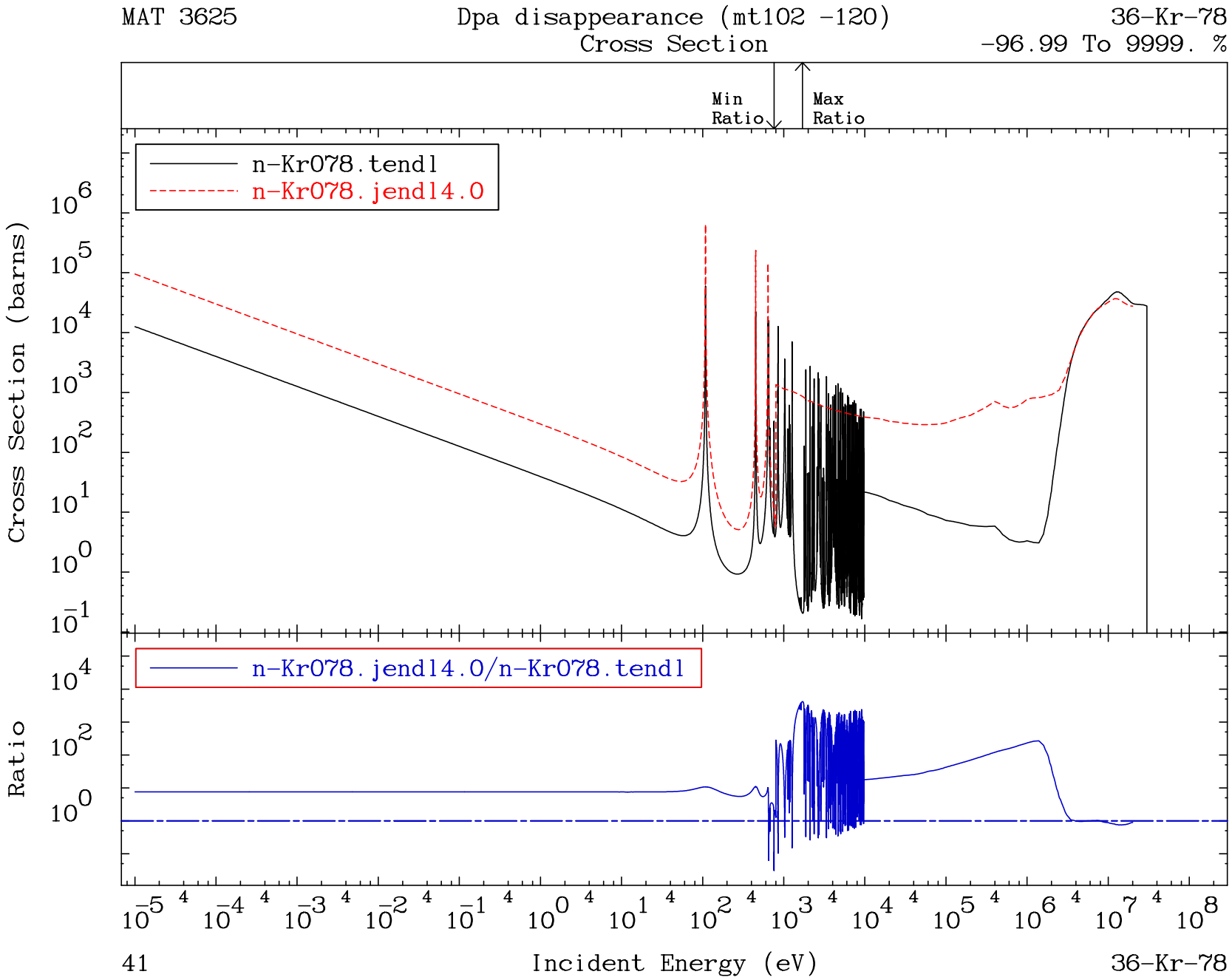

MAT 3625
Total photon (eV-barns)
Cross Section
36-Kr-78
-99.71 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (Gega-barns)
0
2
4
6
8
10
12
14
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
10^{2}
10^{0}
10^{-2}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
36
Incident Energy (eV)
36-Kr-78


MAT 3625
Total kinematic kerma (high limit)
Cross Section
36-Kr-78
-100.0 To -66.86%
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
37
36-Kr-78


MAT 3625
Dpa total (eV-barns)
Cross Section
36-Kr-78
-96.36 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
38
36-Kr-78


MAT 3625
Dpa elastic (mt2)
Cross Section
36-Kr-78
-99.83 To 9999. %
Max
Ratio
n-Kr078.tendl Threshold 459.65 eV
n-Kr078.jendl4.0 Threshold 484.92 eV
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
39
Incident Energy (eV)
36-Kr-78


MAT 3625
Dpa inelastic (mt51-91)
Cross Section
36-Kr-78
1.929 To 156.7 %
Min Ratio
Max Ratio
n-Kr078.tendl Threshold 500.00 keV
n-Kr078.jendl4.0 Threshold 500.00 keV
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
40
36-Kr-78


MAT 3625
Dpa disappearance (mt102 -120)
Cross Section
36-Kr-78
-96.99 To 9999. %
Min Ratio
Max Ratio
n-Kr078.tendl
n-Kr078.jendl4.0
Cross Section (barns)
n-Kr078.jendl4.0/n-Kr078.tendl
Ratio
Incident Energy (eV)
41
36-Kr-78