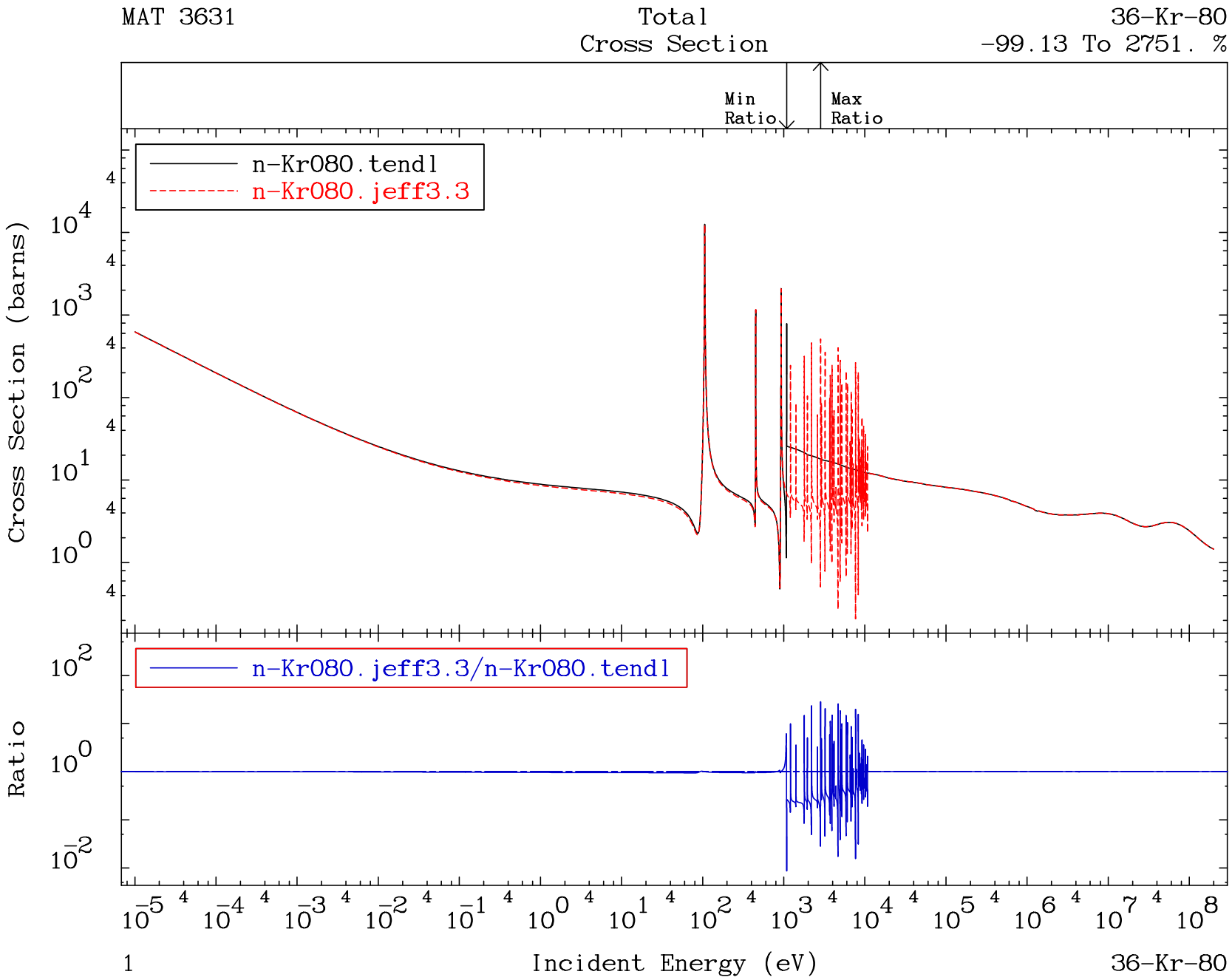
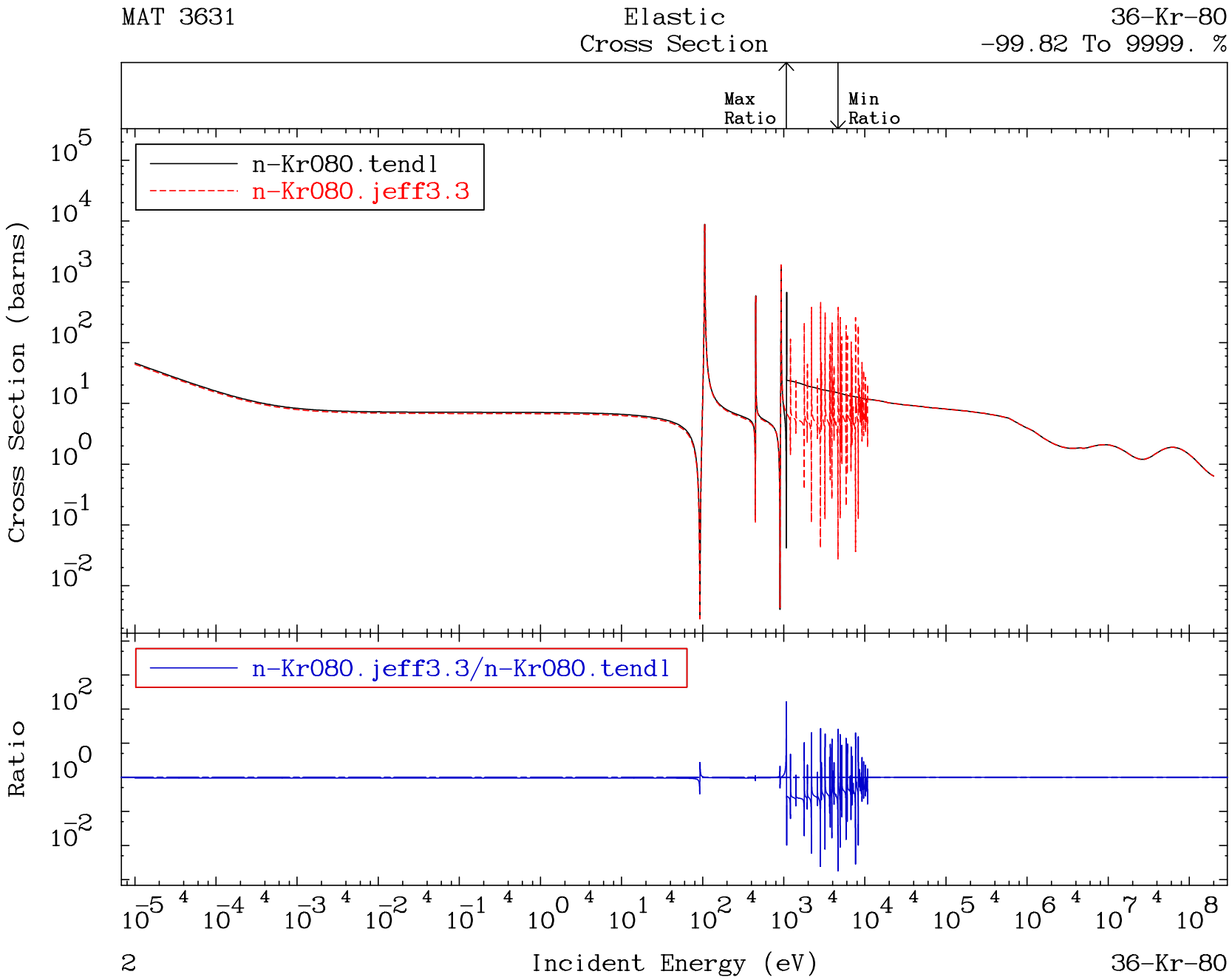
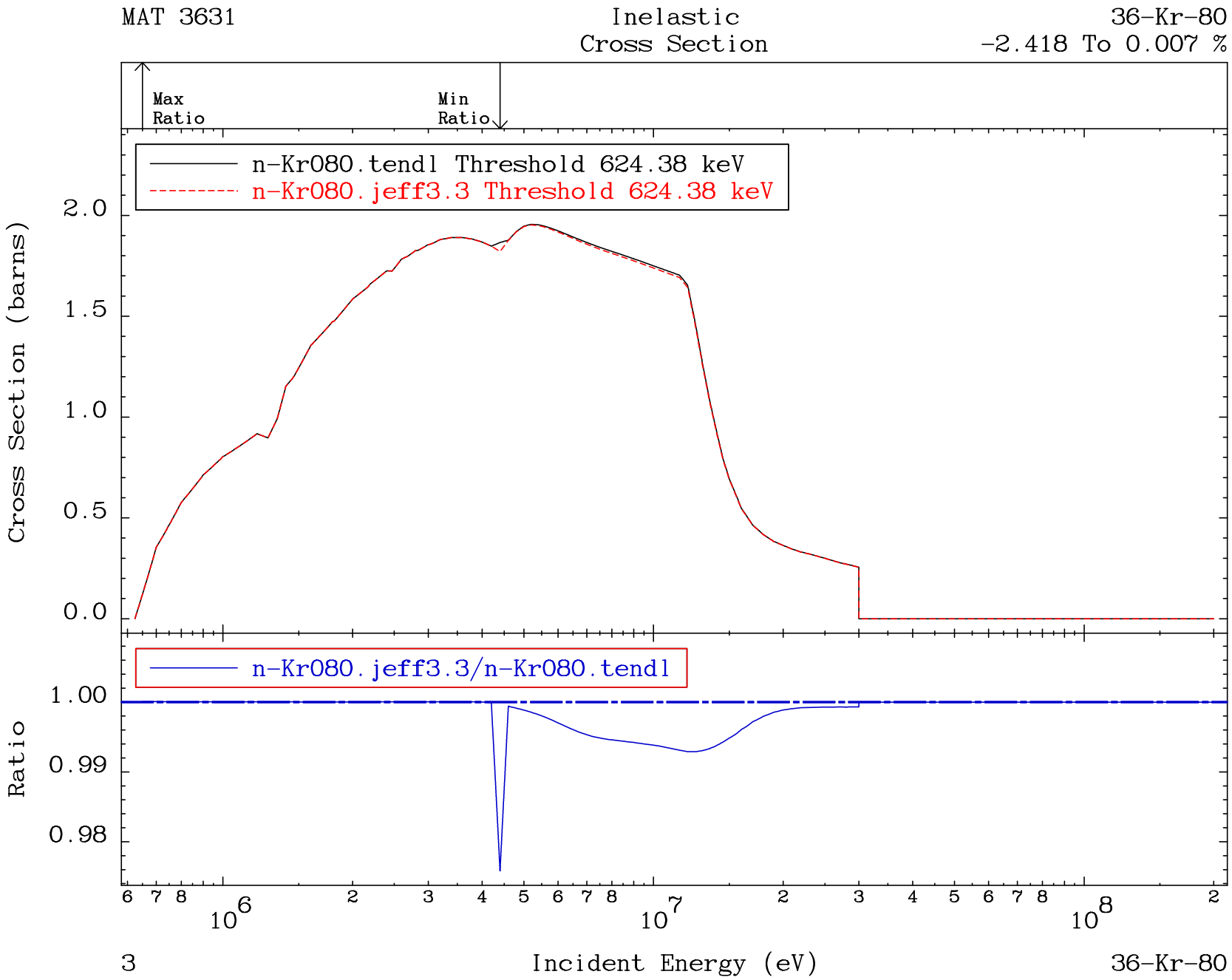
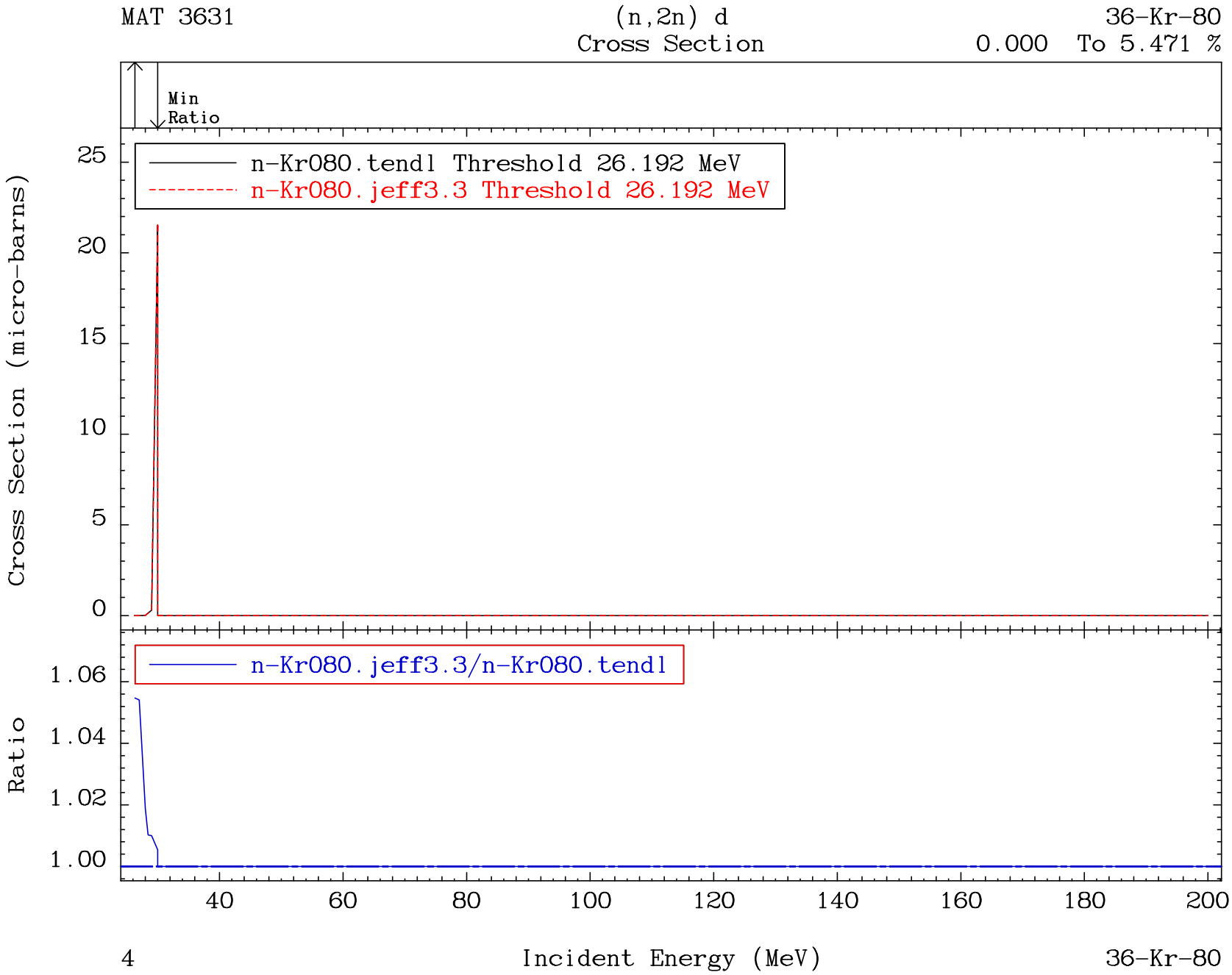
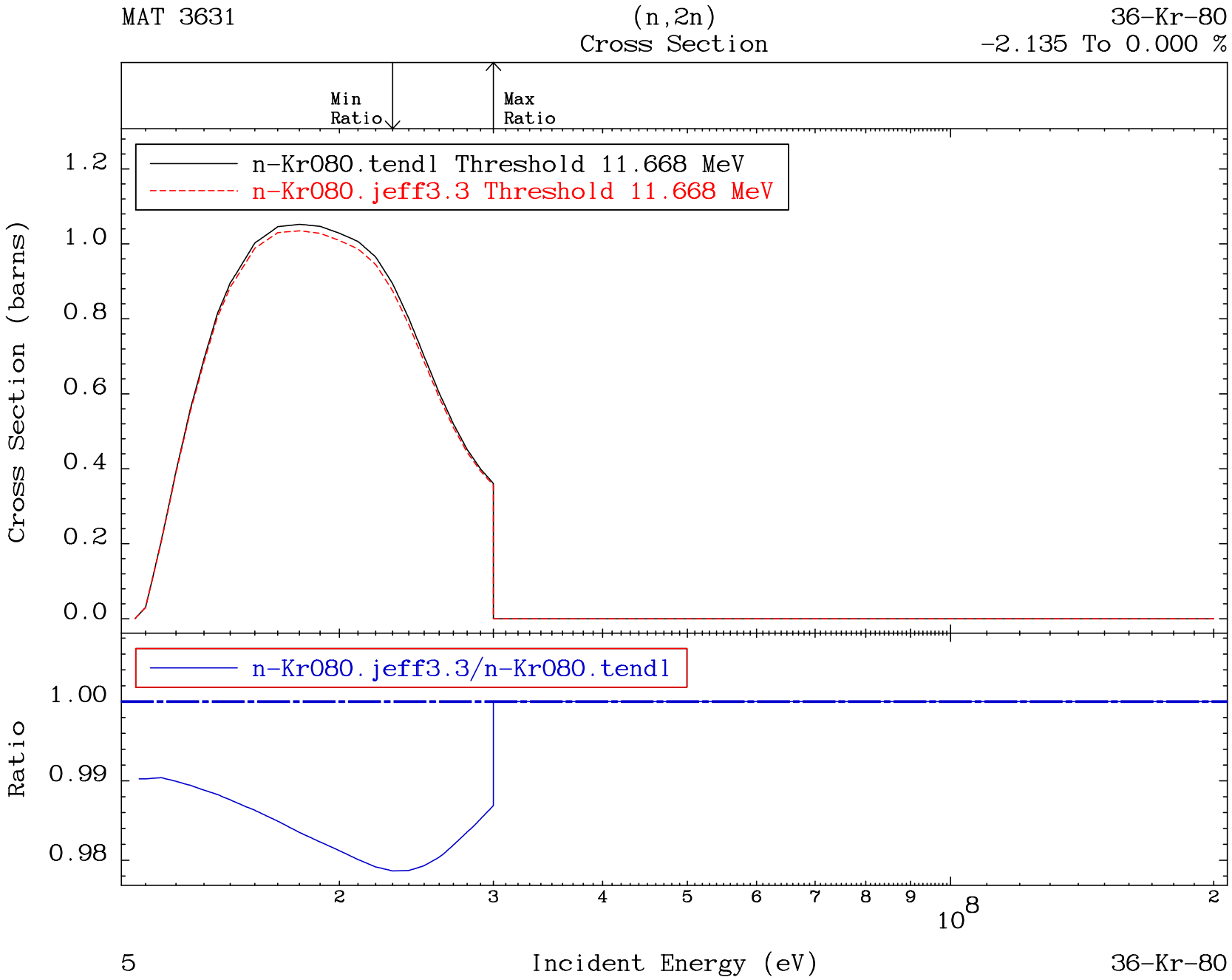
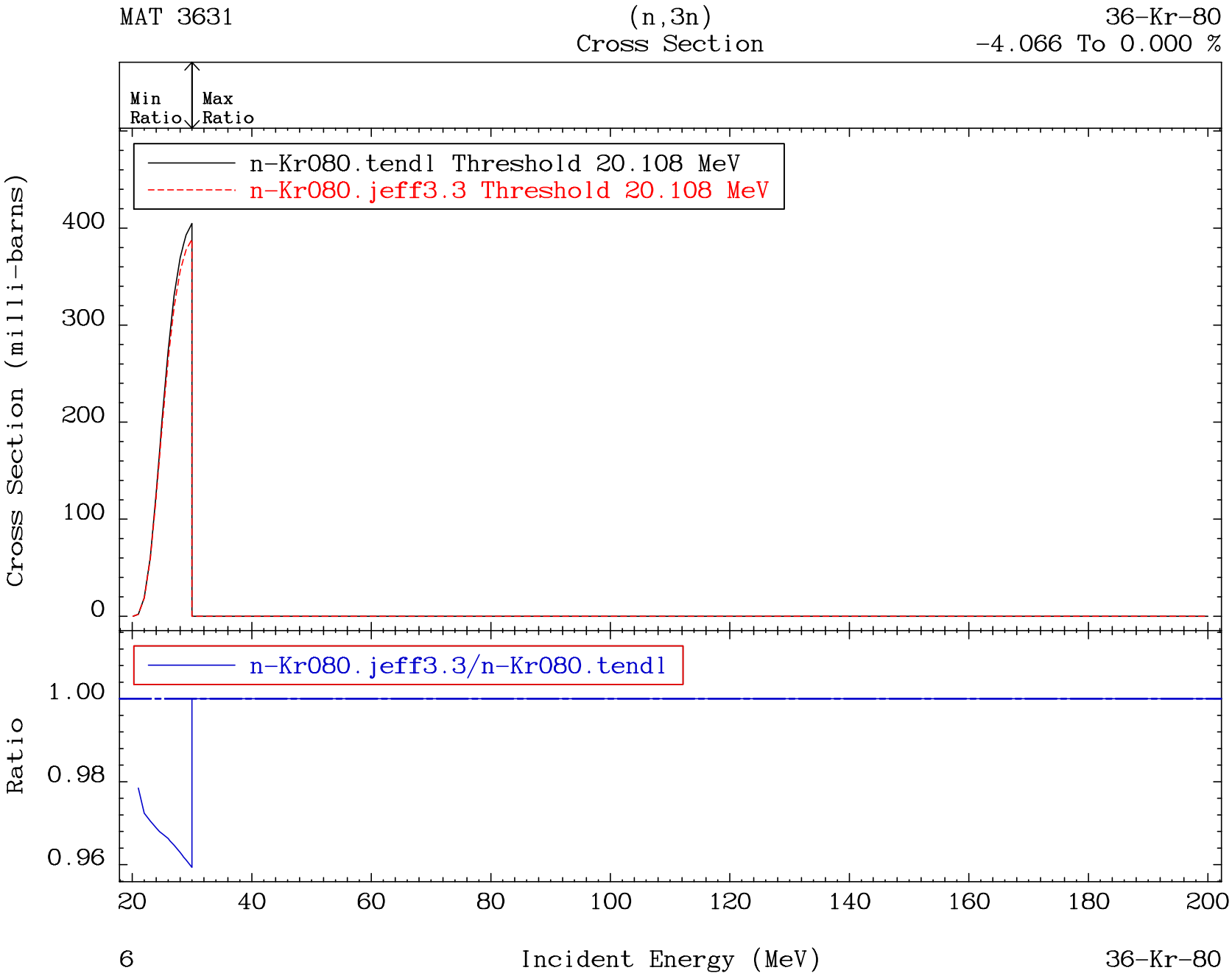

MAT 3631
Total
Cross Section
36-Kr-80
-99.13 To 2751. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
1
36-Kr-80

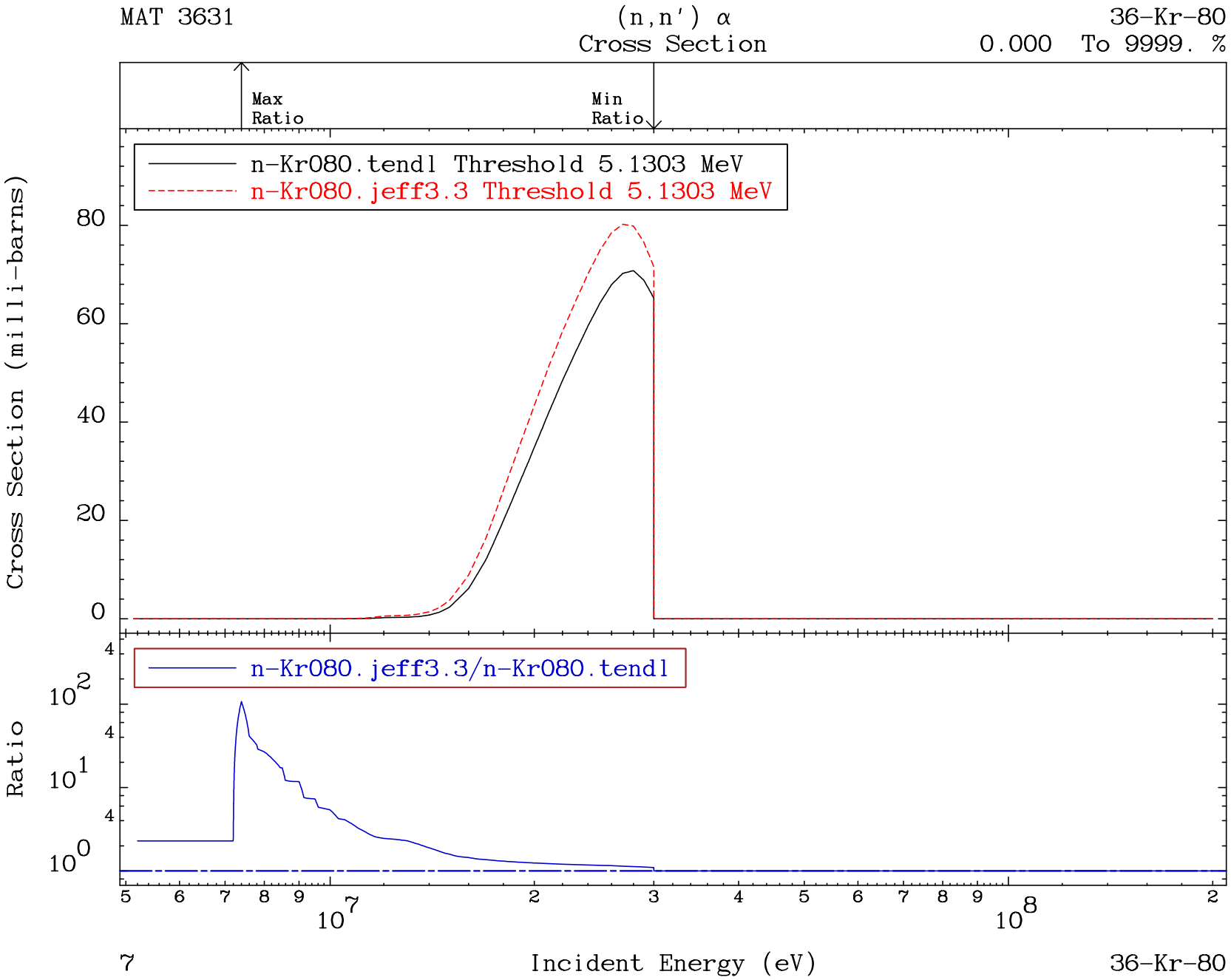

MAT 3631
Elastic
Cross Section
36-Kr-80
-99.82 To 9999. %
Max
Ratio
Min
Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
2
36-Kr-80

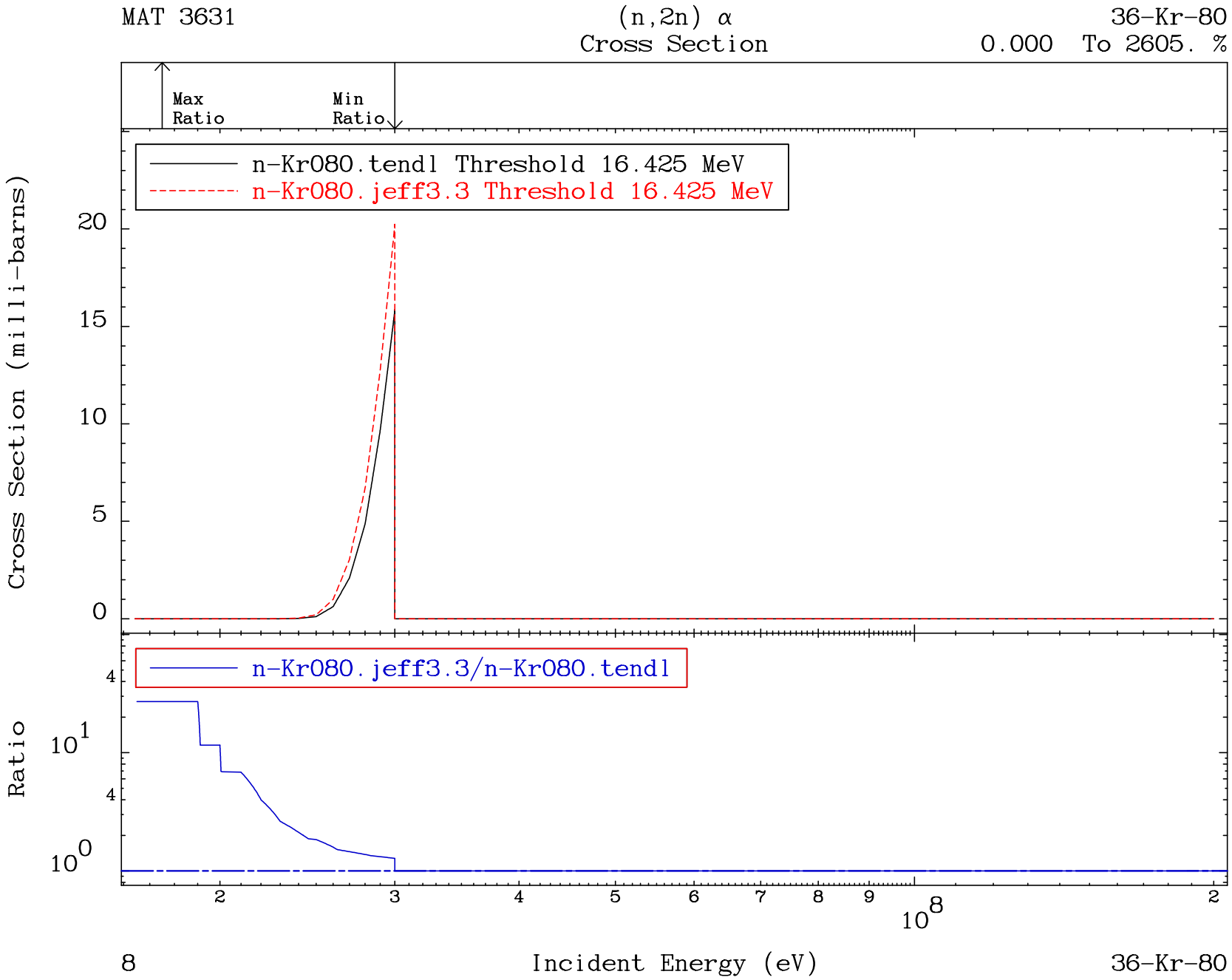

MAT 3631
Inelastic
Cross Section
36-Kr-80
-2.418 To 0.007 %
Max
Ratio
Min
Ratio
n-Kr080.tendl Threshold 624.38 keV
n-Kr080.jeff3.3 Threshold 624.38 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
36-Kr-80

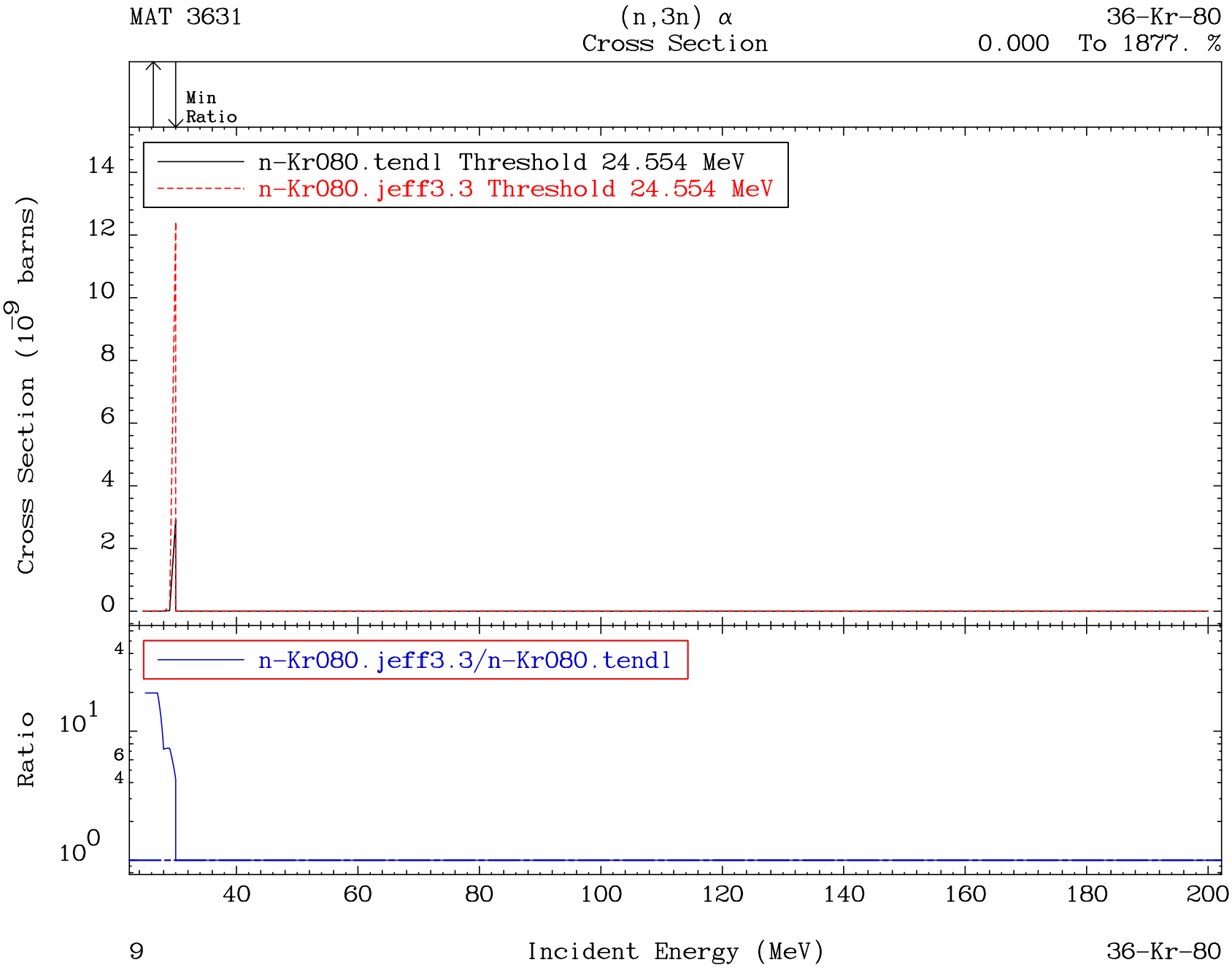

MAT 3631
(n,2n) d
Cross Section
36-Kr-80
0.000 To 5.471 %
Min
Ratio
n-Kr080.tendl Threshold 26.192 MeV
n-Kr080.jeff3.3 Threshold 26.192 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.06
1.04
1.02
1.00
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
36-Kr-80

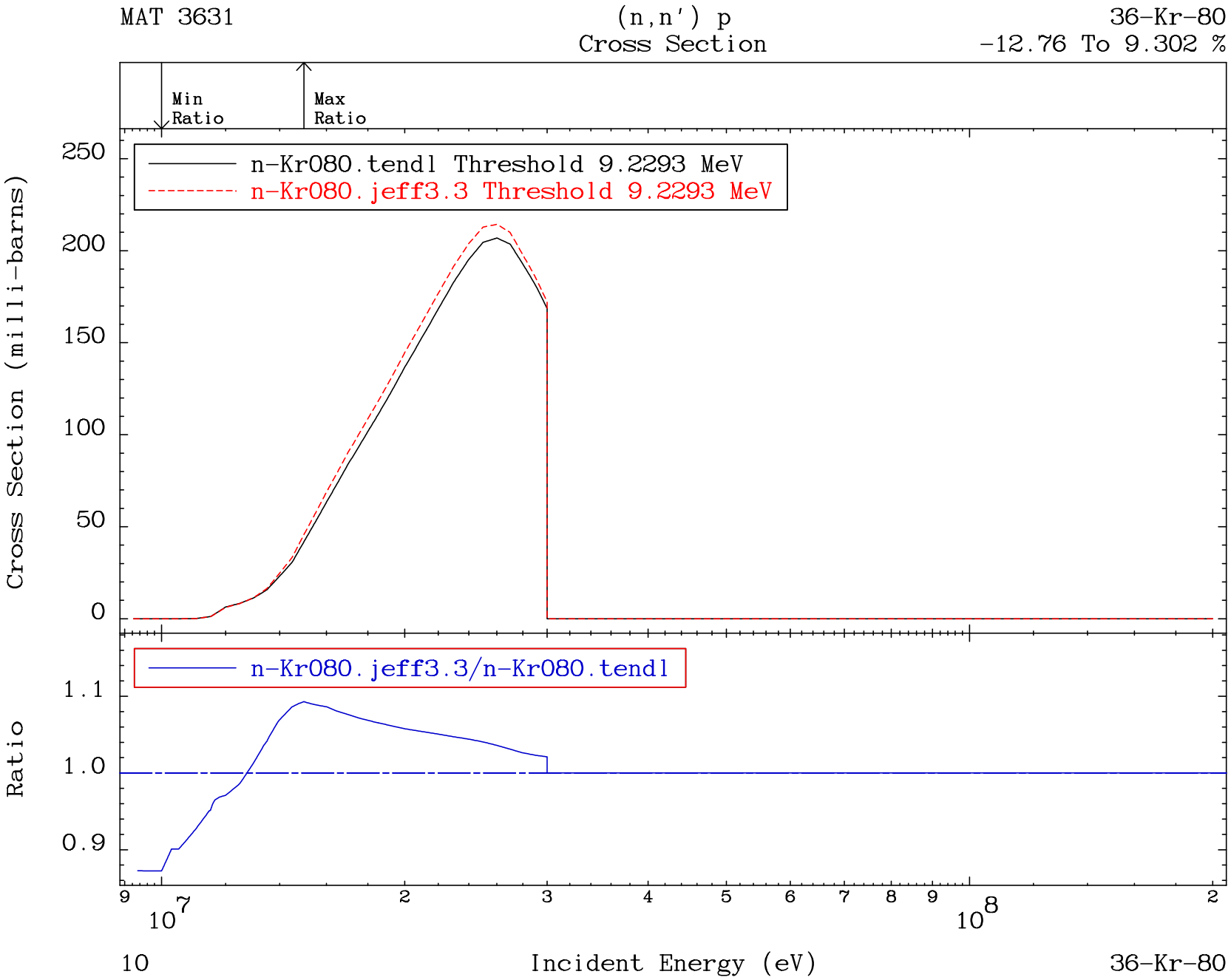

MAT 3631
(n,2n)
Cross Section
36-Kr-80
-2.135 To 0.000 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 11.668 MeV
n-Kr080.jeff3.3 Threshold 11.668 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
36-Kr-80

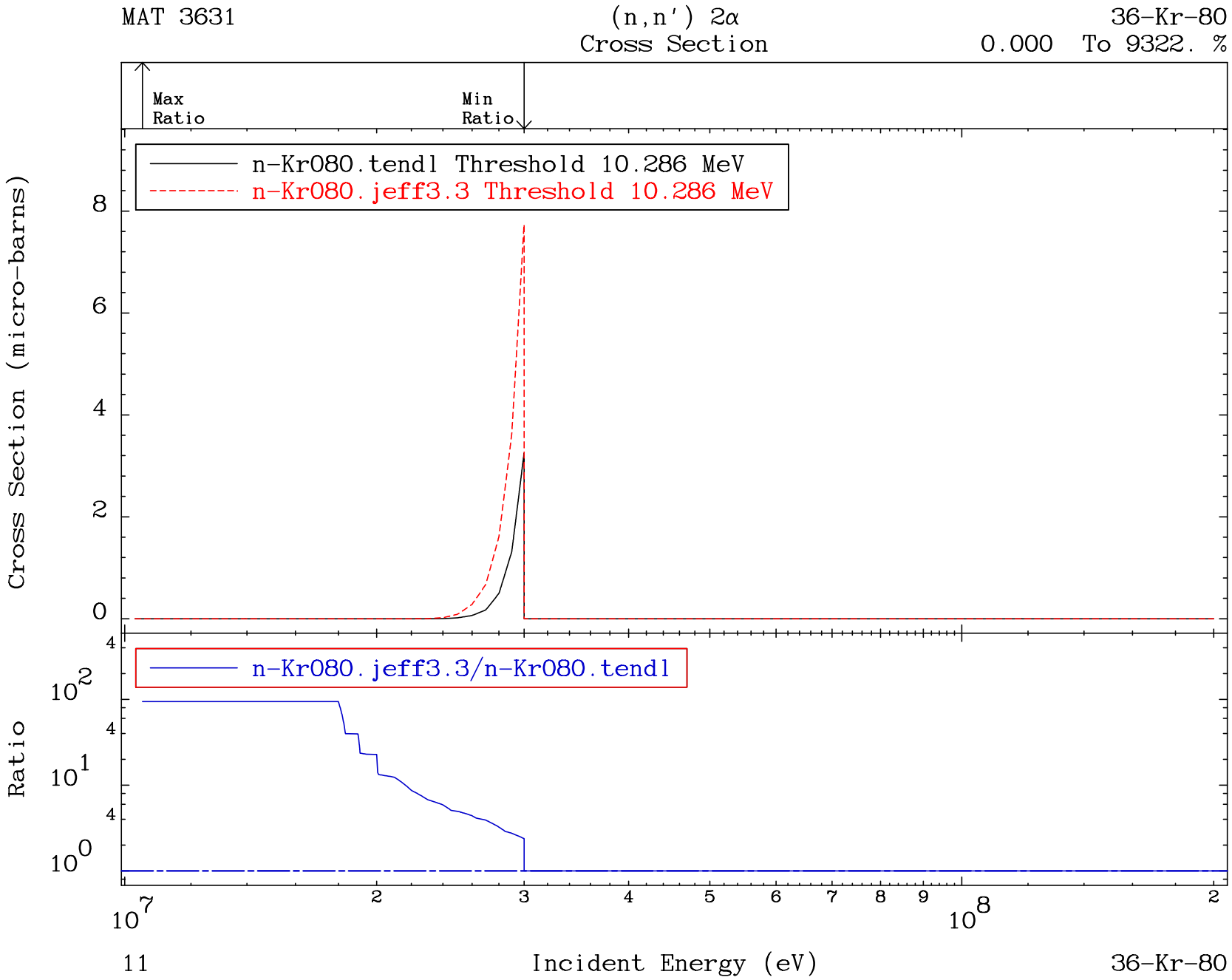

MAT 3631
(n,3n)
Cross Section
36-Kr-80
-4.066 To 0.000 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 20.108 MeV
n-Kr080.jeff3.3 Threshold 20.108 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.98
0.96
20
40
60
80
100
120
140
160
180
200
6
Incident Energy (MeV)
36-Kr-80

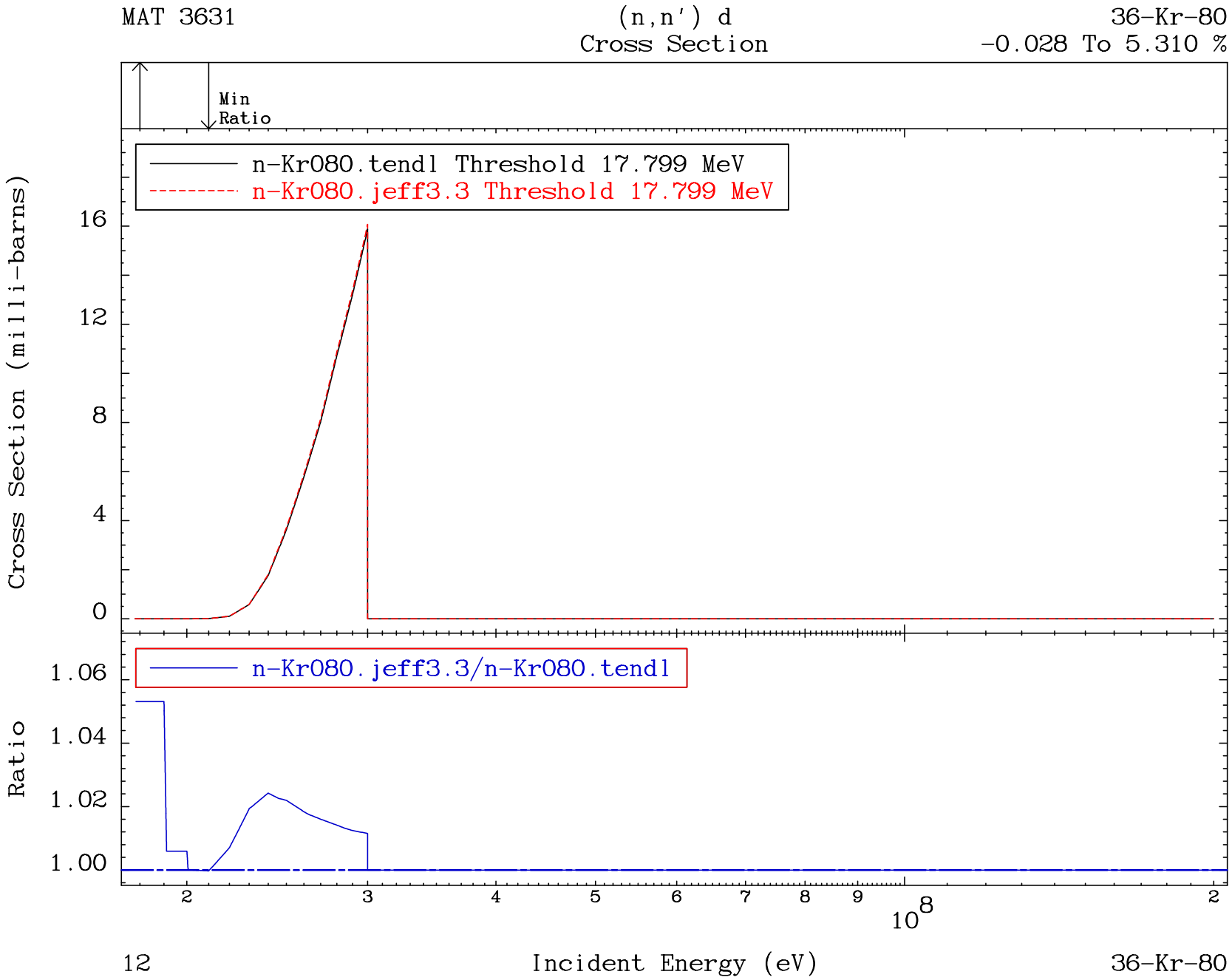

MAT 3631
(n,n') α
Cross Section
36-Kr-80
0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 5.1303 MeV
n-Kr080.jeff3.3 Threshold 5.1303 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
36-Kr-80

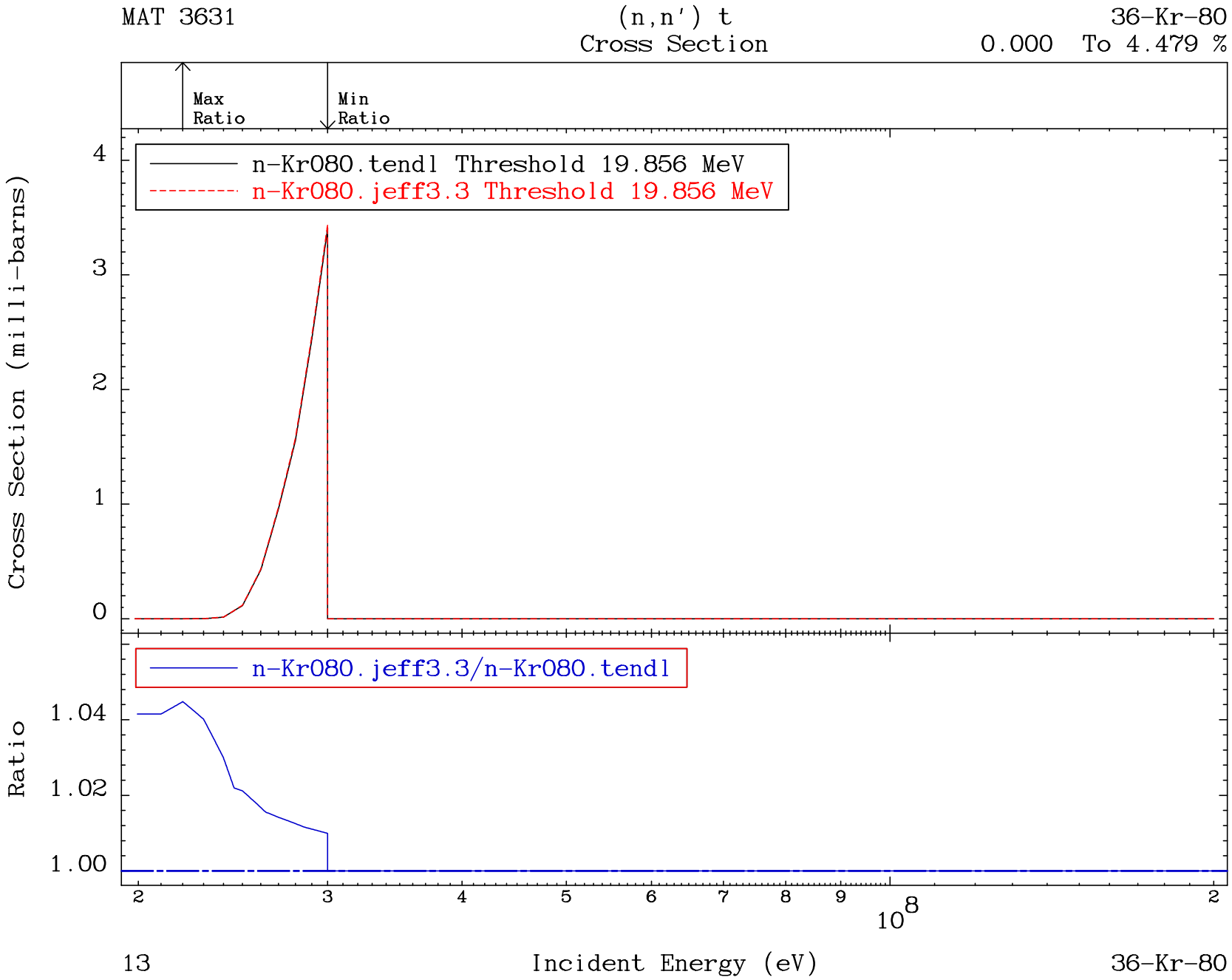

MAT 3631
(n,2n) α
Cross Section
36-Kr-80
0.000 To 2605. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 16.425 MeV
n-Kr080.jeff3.3 Threshold 16.425 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
36-Kr-80

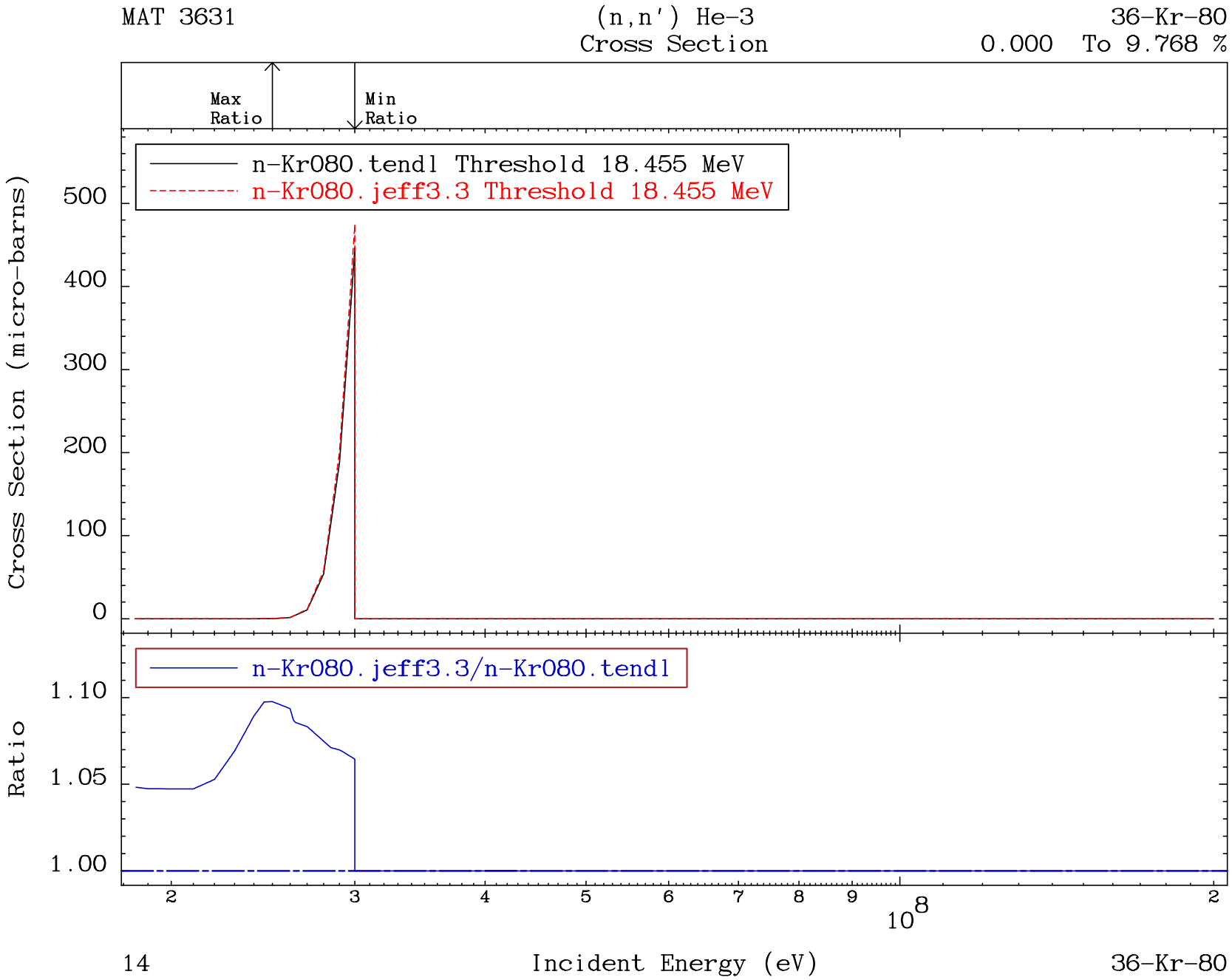

MAT 3631
(n,3n) α
Cross Section
36-Kr-80
0.000 To 1877. %
Min
Ratio
n-Kr080.tendl Threshold 24.554 MeV
n-Kr080.jeff3.3 Threshold 24.554 MeV
Cross Section (10^-9 barns)
14
12
10
8
6
4
2
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^1
6
4
10^0
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
36-Kr-80

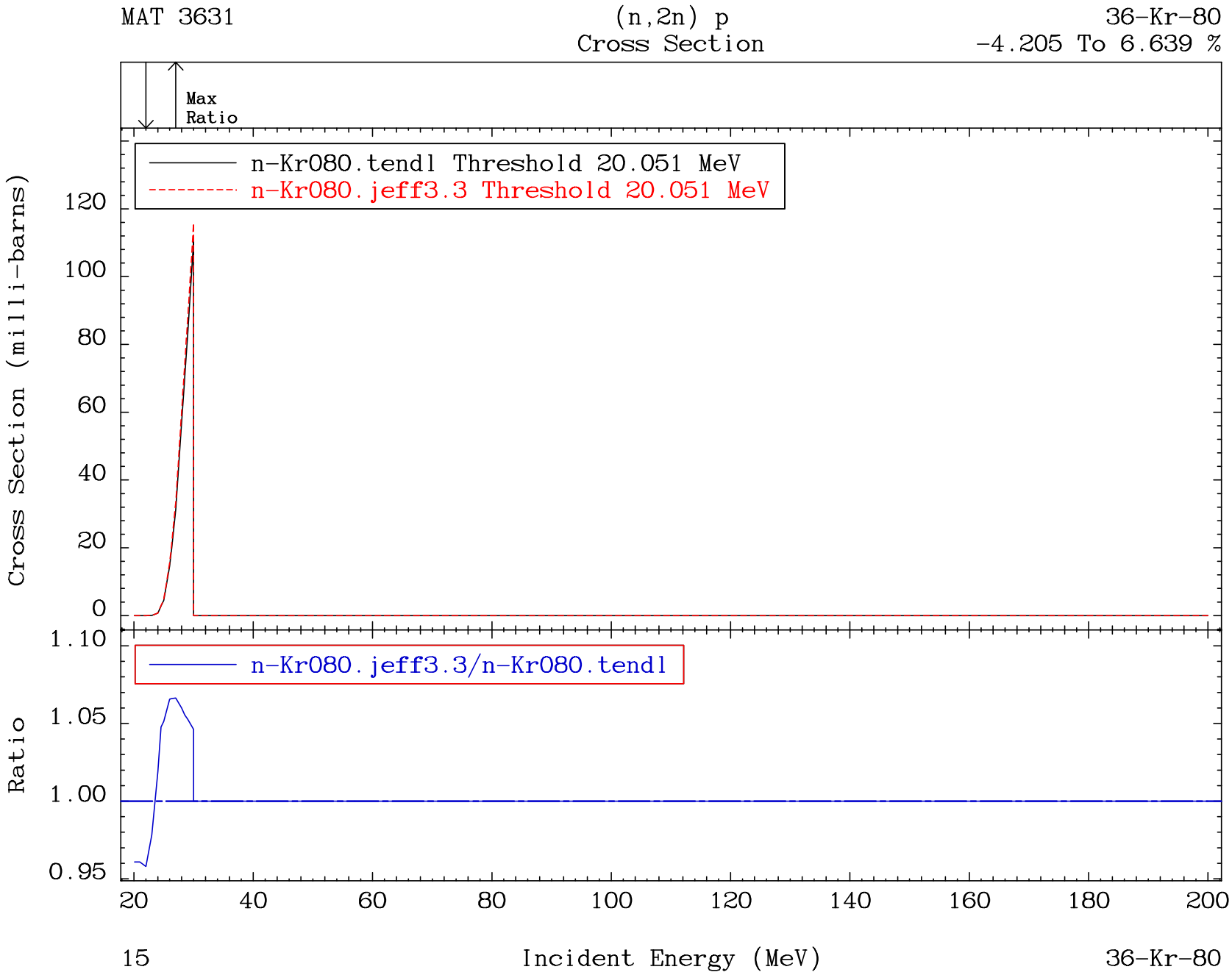

MAT 3631
(n,n') p
Cross Section
36-Kr-80
-12.76 To 9.302 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 9.2293 MeV
n-Kr080.jeff3.3 Threshold 9.2293 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
9
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
36-Kr-80

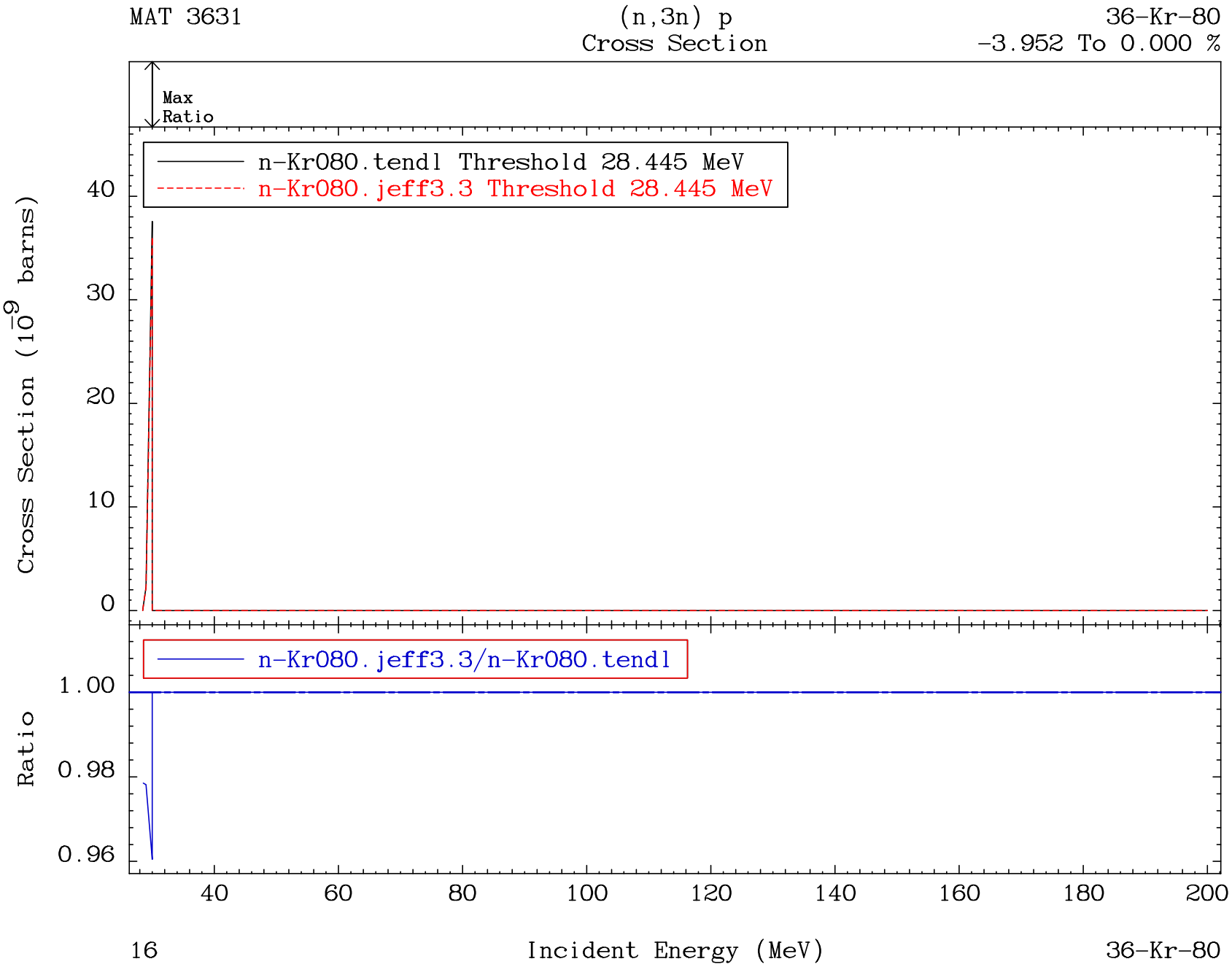

MAT 3631
(n,n') 2α
Cross Section
36-Kr-80
0.000 To 9322. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 10.286 MeV
n-Kr080.jeff3.3 Threshold 10.286 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^0
10^1
10^2
10^7
10^8
Incident Energy (eV)
11
36-Kr-80

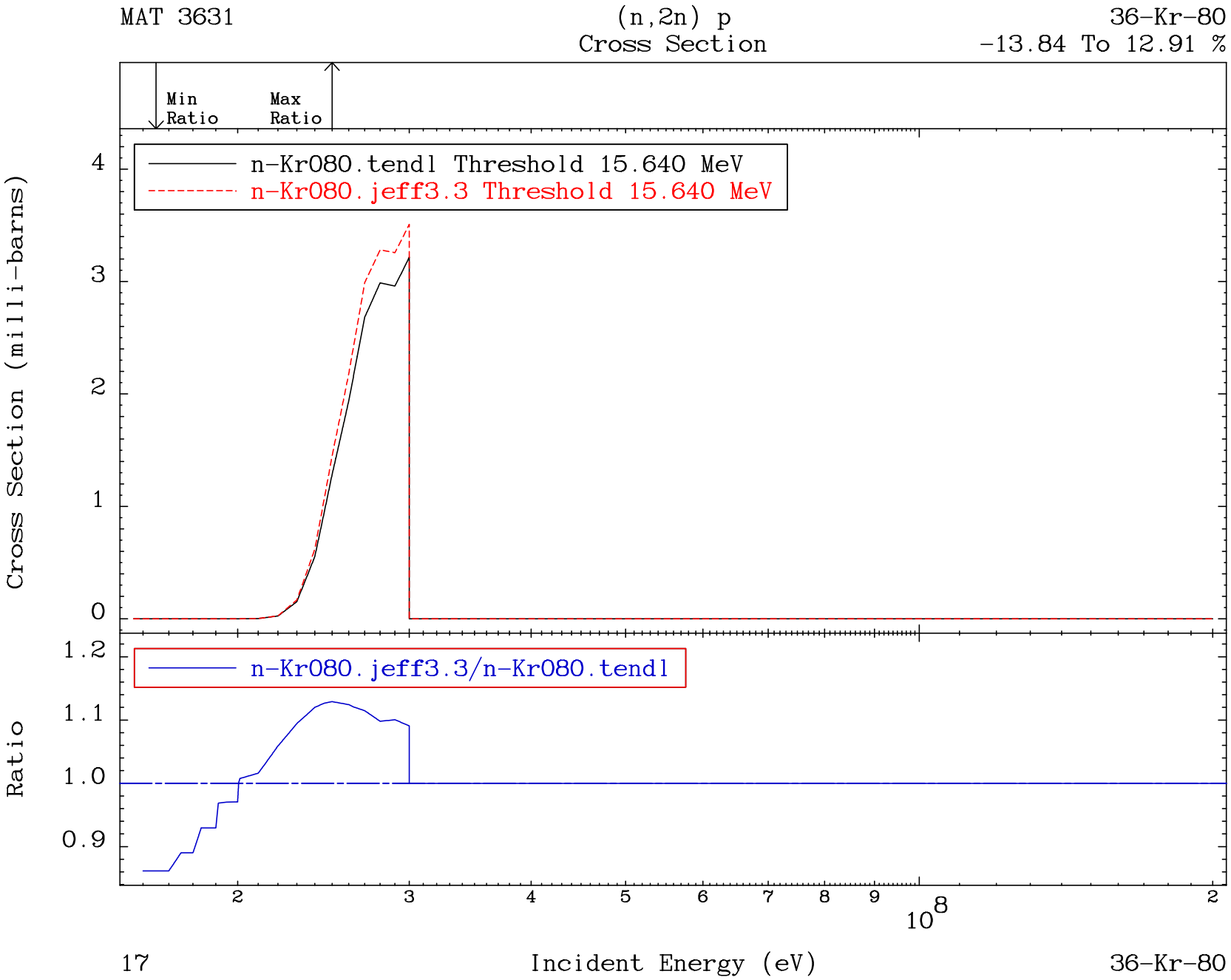

MAT 3631
(n,n') d
Cross Section
36-Kr-80
-0.028 To 5.310 %
Min
Ratio
n-Kr080.tendl Threshold 17.799 MeV
n-Kr080.jeff3.3 Threshold 17.799 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
36-Kr-80

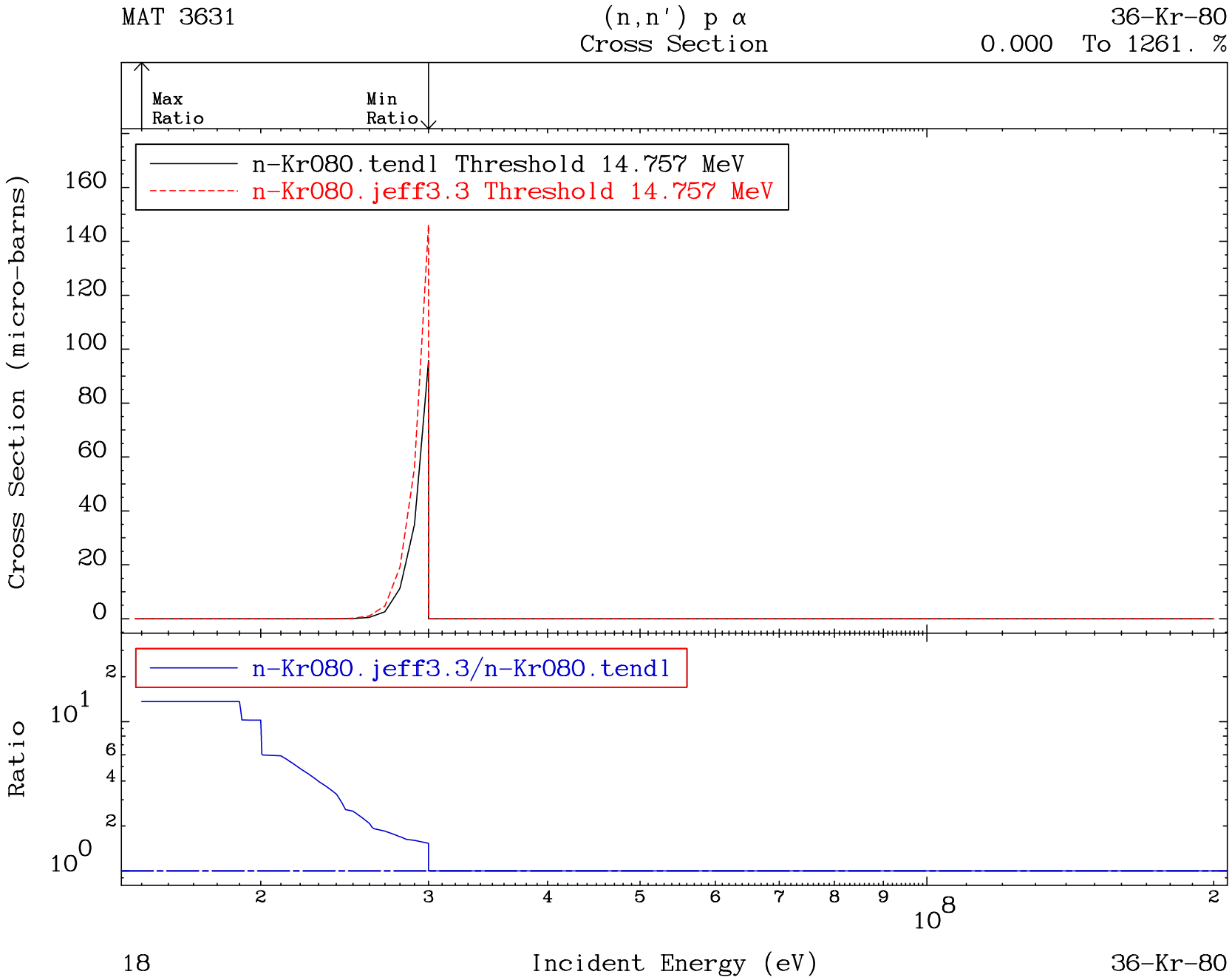

MAT 3631
(n,n') t
Cross Section
36-Kr-80
0.000 To 4.479 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 19.856 MeV
n-Kr080.jeff3.3 Threshold 19.856 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
1.02
1.04
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
36-Kr-80

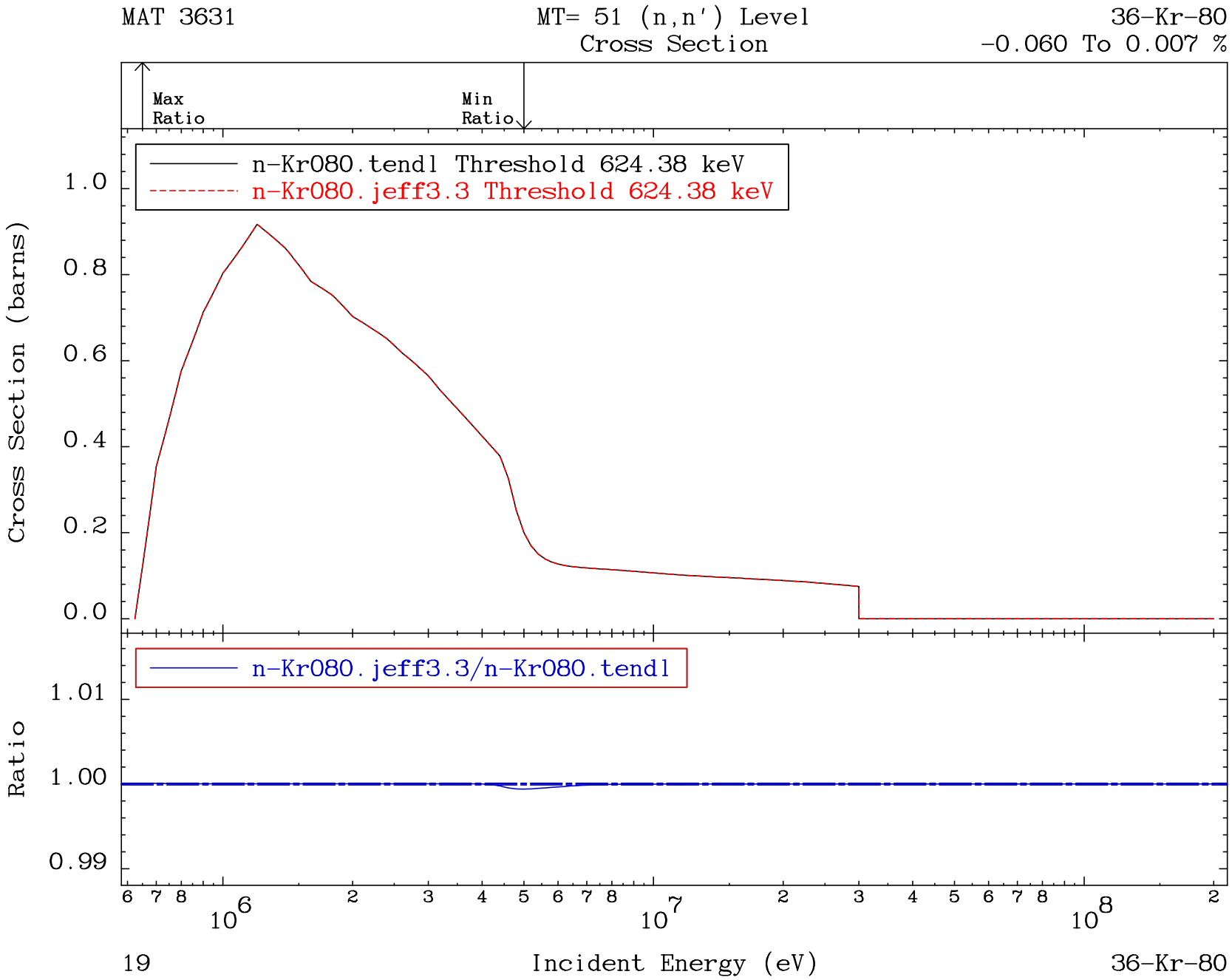

MAT 3631
(n,n') He-3
Cross Section
36-Kr-80
0.000 To 9.768 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 18.455 MeV
n-Kr080.jeff3.3 Threshold 18.455 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
36-Kr-80

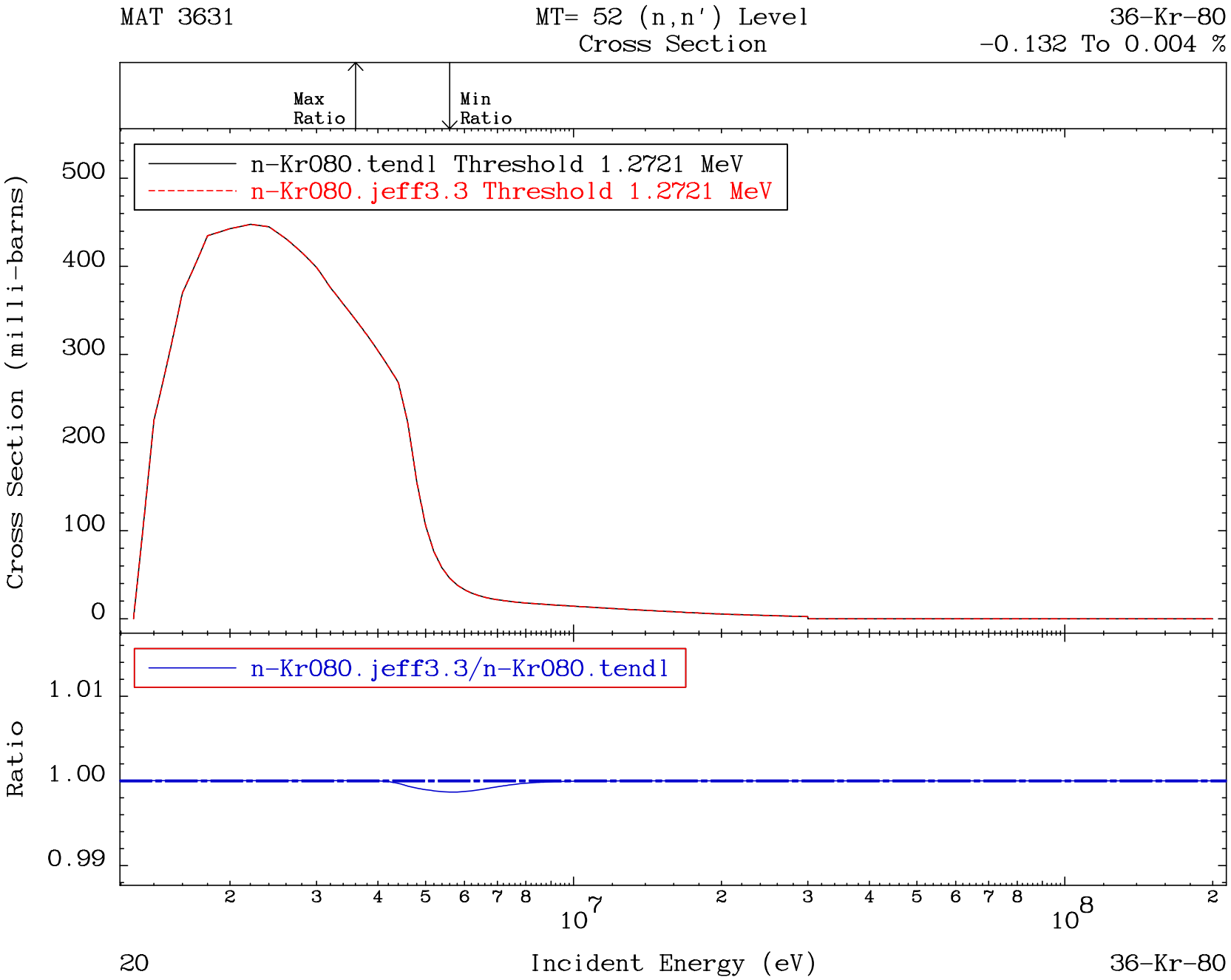

MAT 3631
(n,2n) p
Cross Section
36-Kr-80
-4.205 To 6.639 %
Max
Ratio
n-Kr080.tendl Threshold 20.051 MeV
n-Kr080.jeff3.3 Threshold 20.051 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
0.95
20
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
36-Kr-80

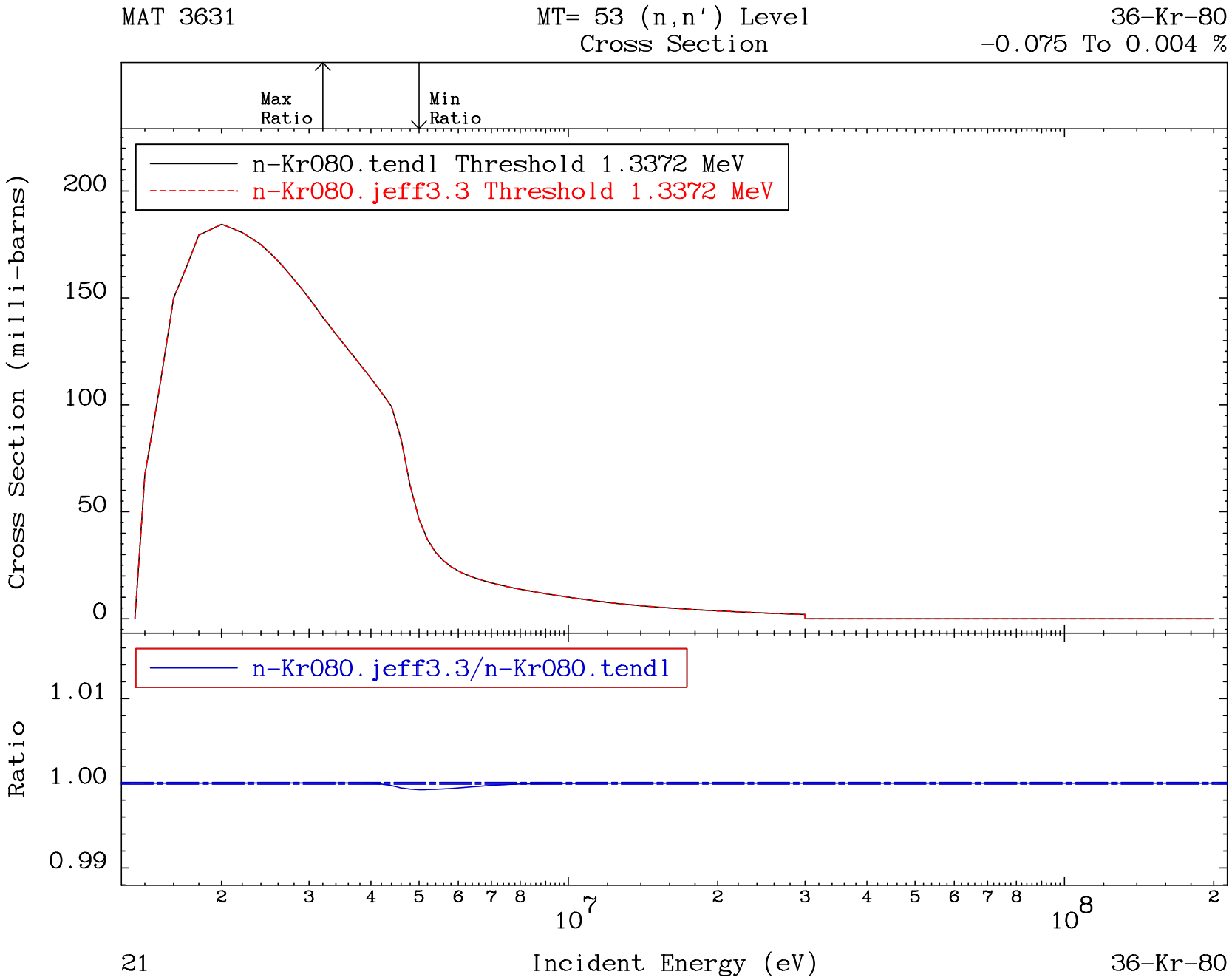

MAT 3631
(n,3n) p
Cross Section
36-Kr-80
-3.952 To 0.000 %
Max
Ratio
n-Kr080.tendl Threshold 28.445 MeV
n-Kr080.jeff3.3 Threshold 28.445 MeV
Cross Section ($10^{-9}$ barns)
40
30
20
10
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.98
0.96
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
36-Kr-80

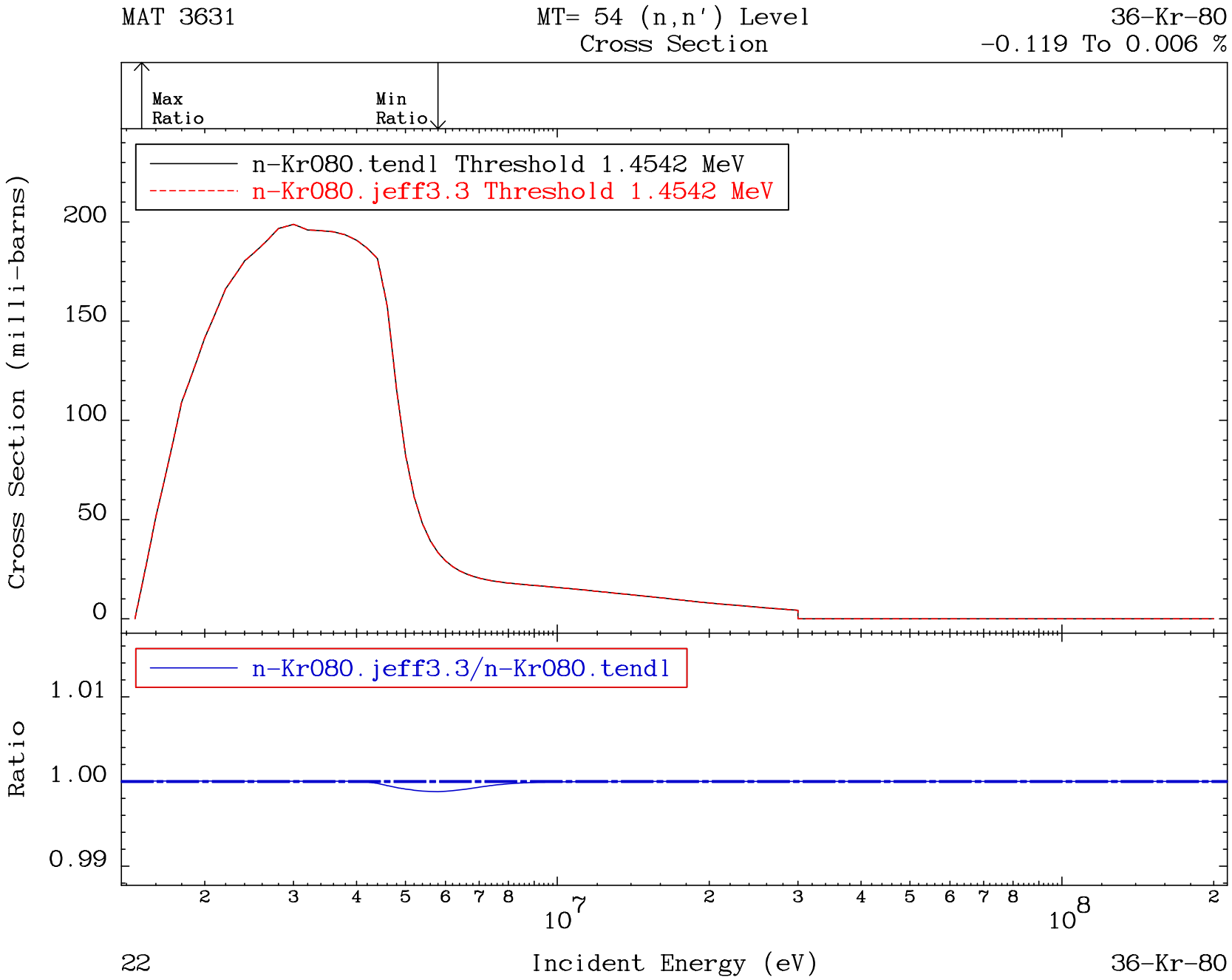

MAT 3631
(n,2n) p
Cross Section
36-Kr-80
-13.84 To 12.91 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 15.640 MeV
n-Kr080.jeff3.3 Threshold 15.640 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
0.9
1.0
1.1
1.2
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
36-Kr-80

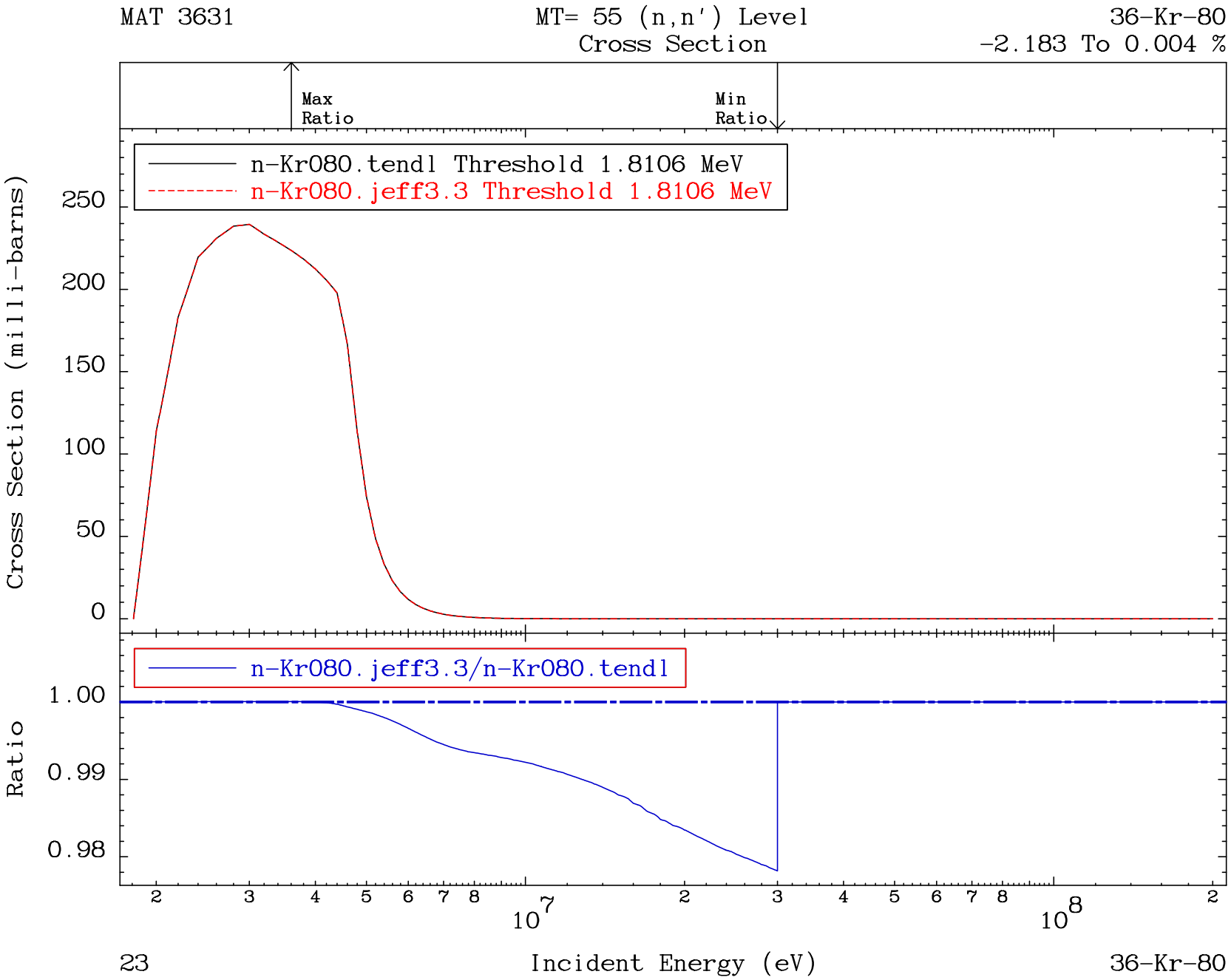

MAT 3631
(n,n') p α
Cross Section
36-Kr-80
0.000 To 1261. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 14.757 MeV
n-Kr080.jeff3.3 Threshold 14.757 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
2
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
36-Kr-80

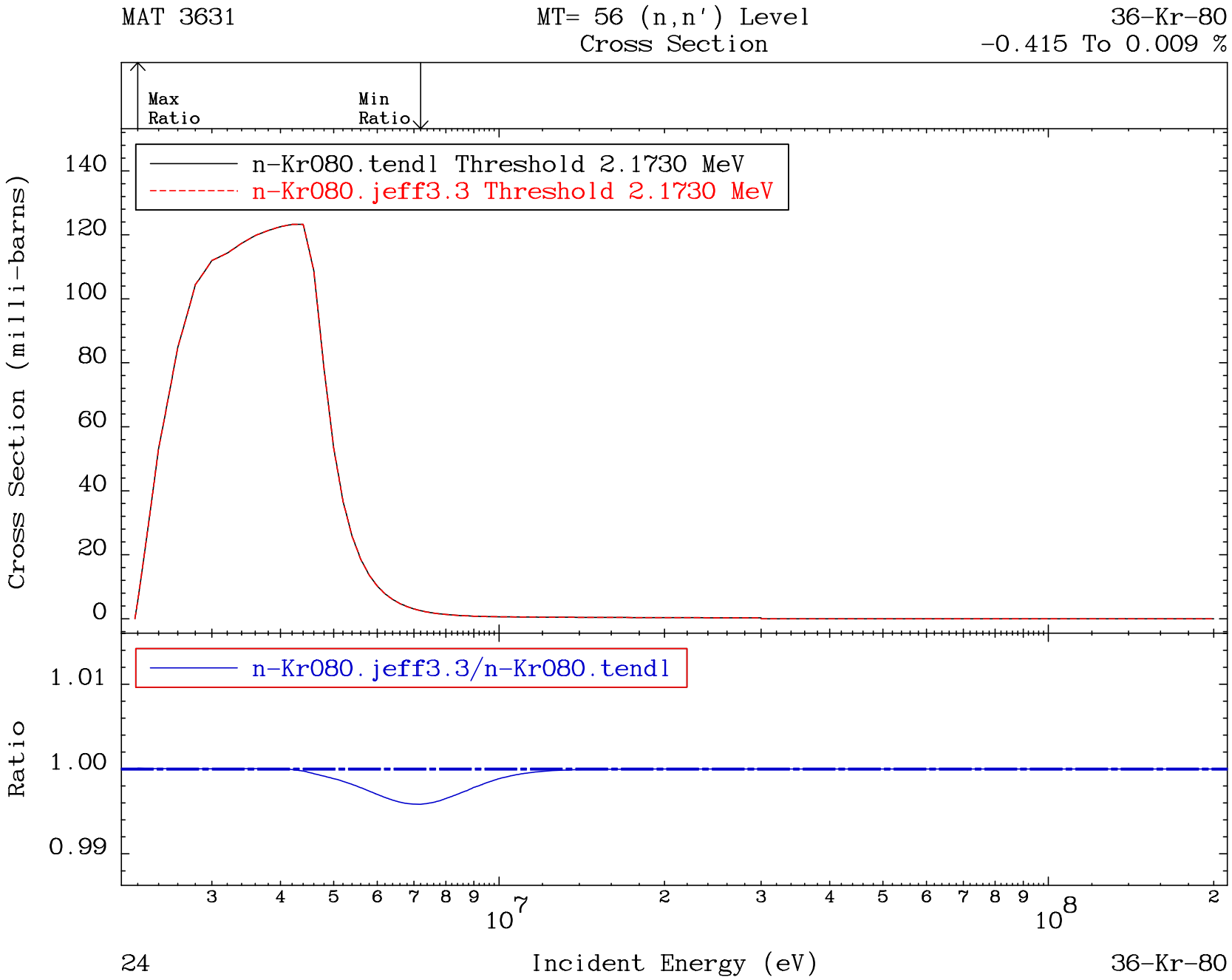

MAT 3631
MT= 51 (n,n') Level
Cross Section
36-Kr-80
-0.060 To 0.007 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 624.38 keV
n-Kr080.jeff3.3 Threshold 624.38 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
36-Kr-80

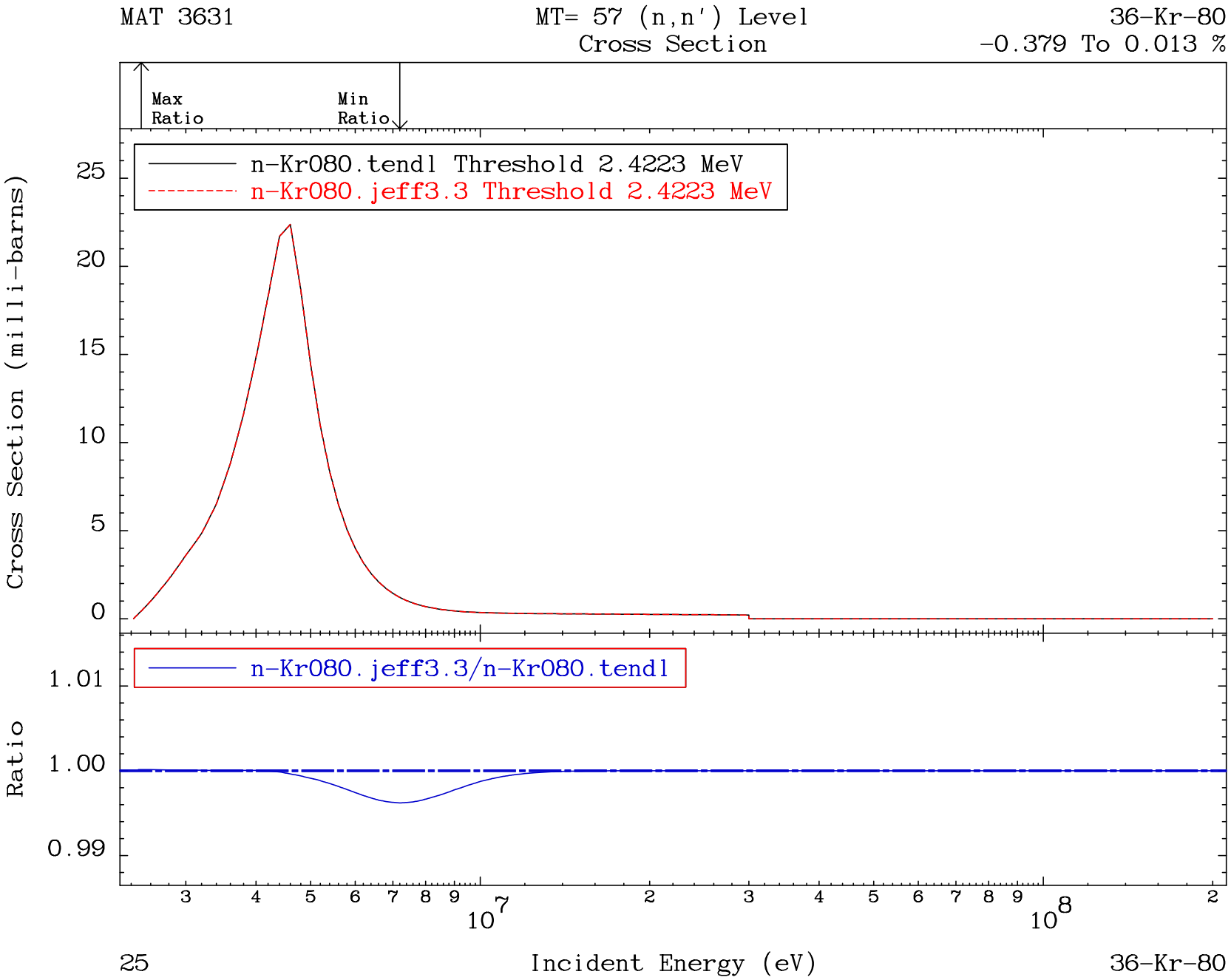

MAT 3631
MT= 52 (n,n') Level
Cross Section
36-Kr-80
-0.132 To 0.004 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 1.2721 MeV
n-Kr080.jeff3.3 Threshold 1.2721 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
36-Kr-80

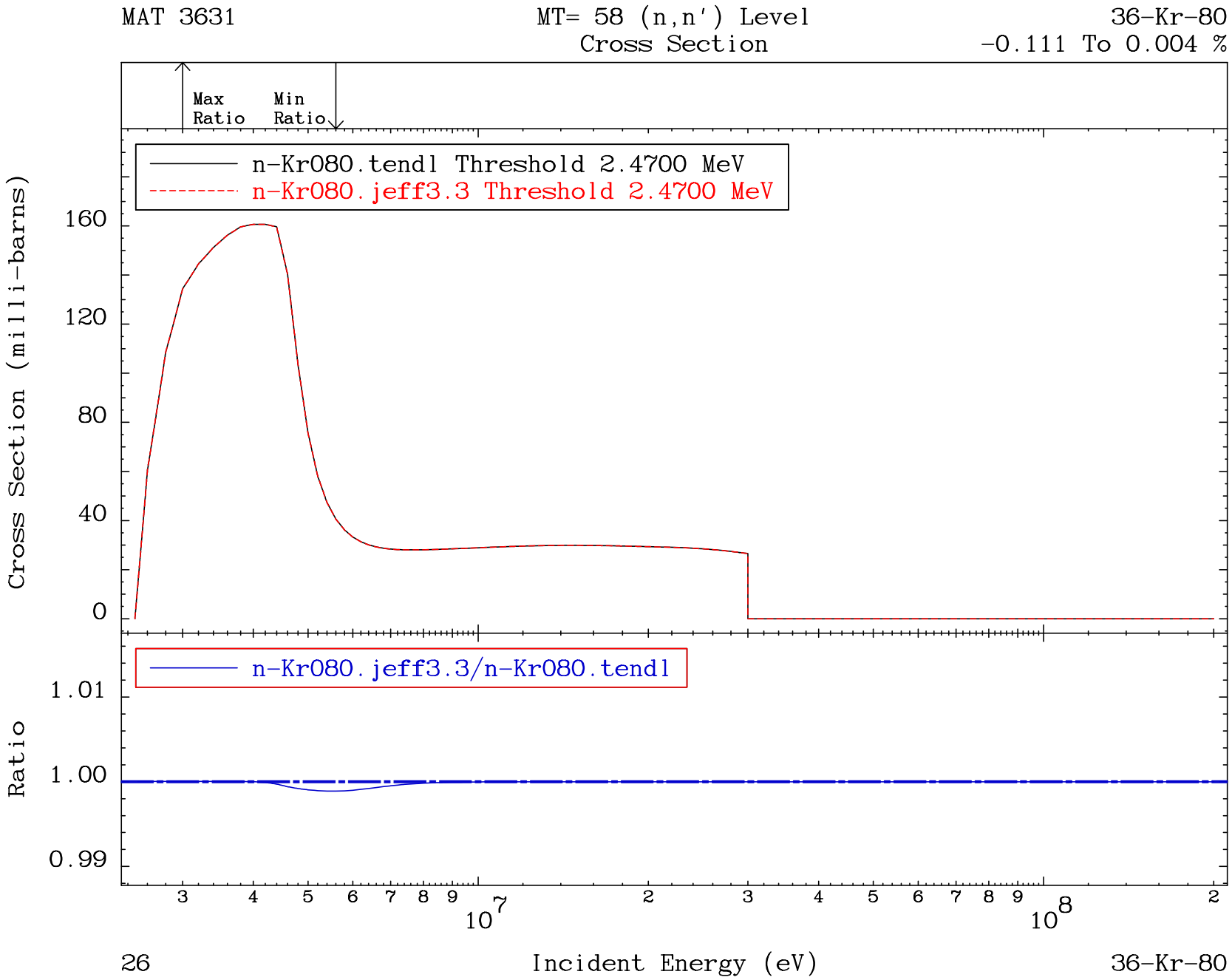

MAT 3631
MT= 53 (n,n') Level
Cross Section
36-Kr-80
-0.075 To 0.004 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 1.3372 MeV
n-Kr080.jeff3.3 Threshold 1.3372 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
36-Kr-80

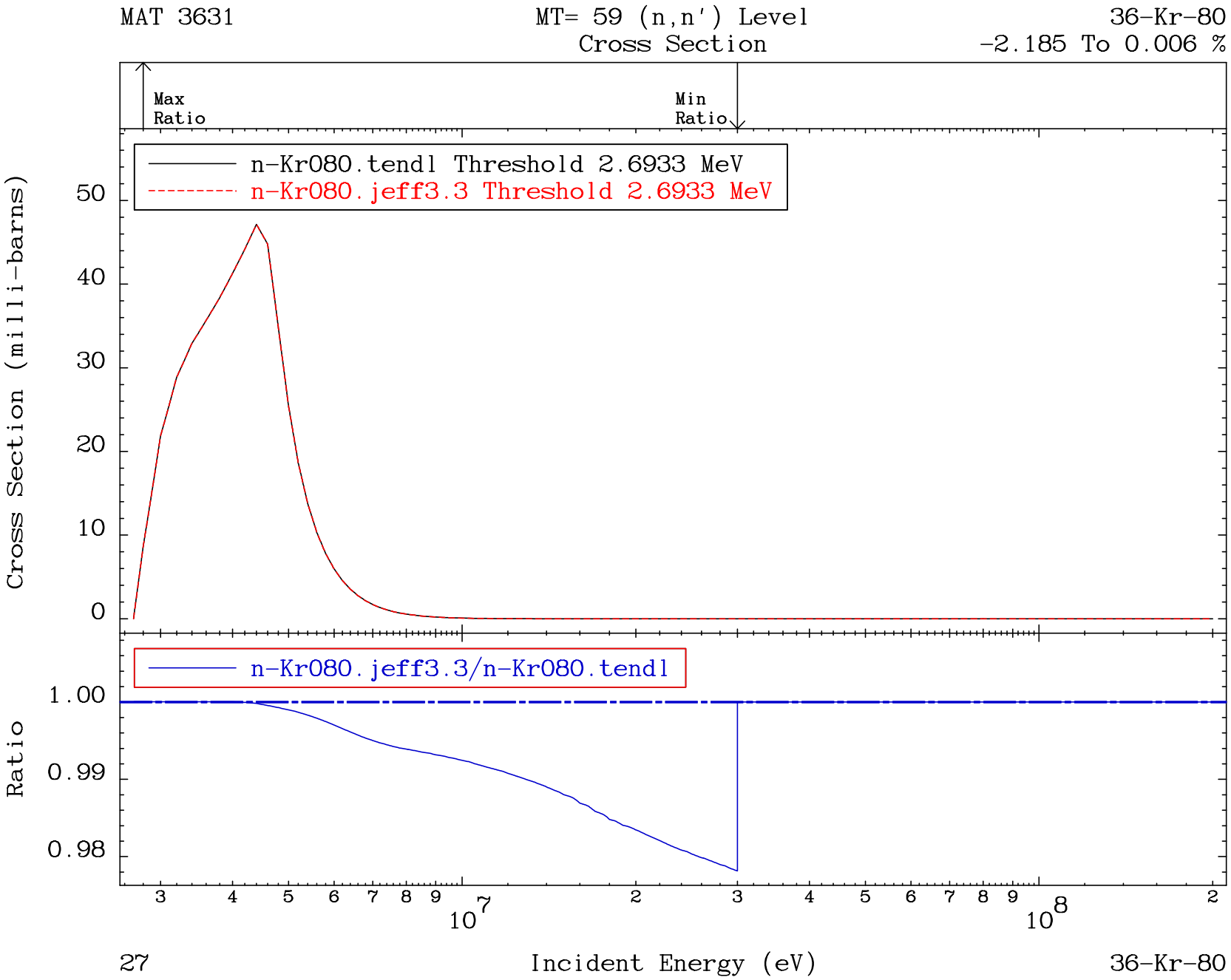

MAT 3631
MT= 54 (n,n') Level
Cross Section
36-Kr-80
-0.119 To 0.006 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 1.4542 MeV
n-Kr080.jeff3.3 Threshold 1.4542 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
36-Kr-80

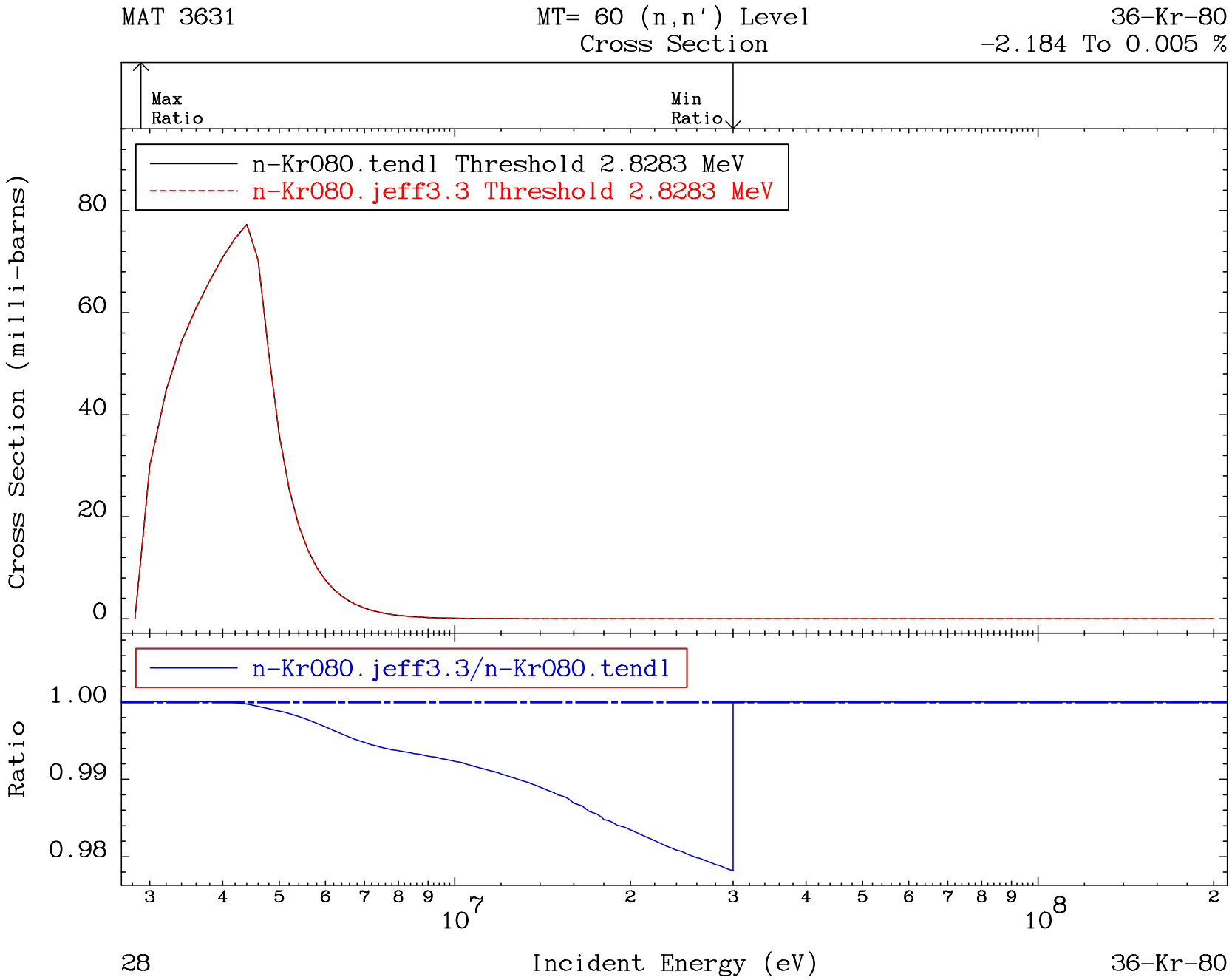

MAT 3631
MT= 55 (n,n') Level
Cross Section
36-Kr-80
-2.183 To 0.004 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 1.8106 MeV
n-Kr080.jeff3.3 Threshold 1.8106 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
36-Kr-80

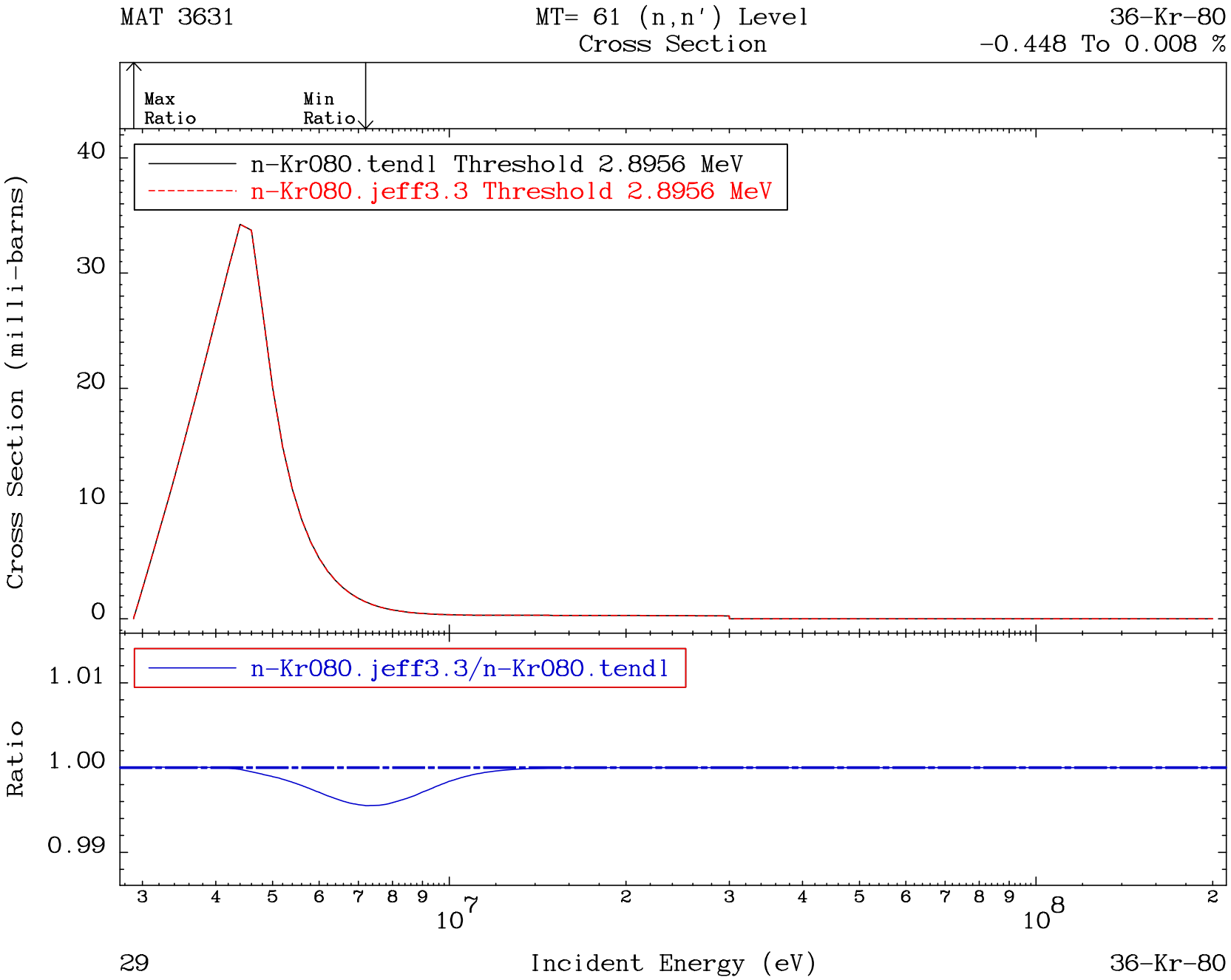

MAT 3631
MT= 56 (n,n') Level
Cross Section
36-Kr-80
-0.415 To 0.009 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 2.1730 MeV
n-Kr080.jeff3.3 Threshold 2.1730 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
36-Kr-80

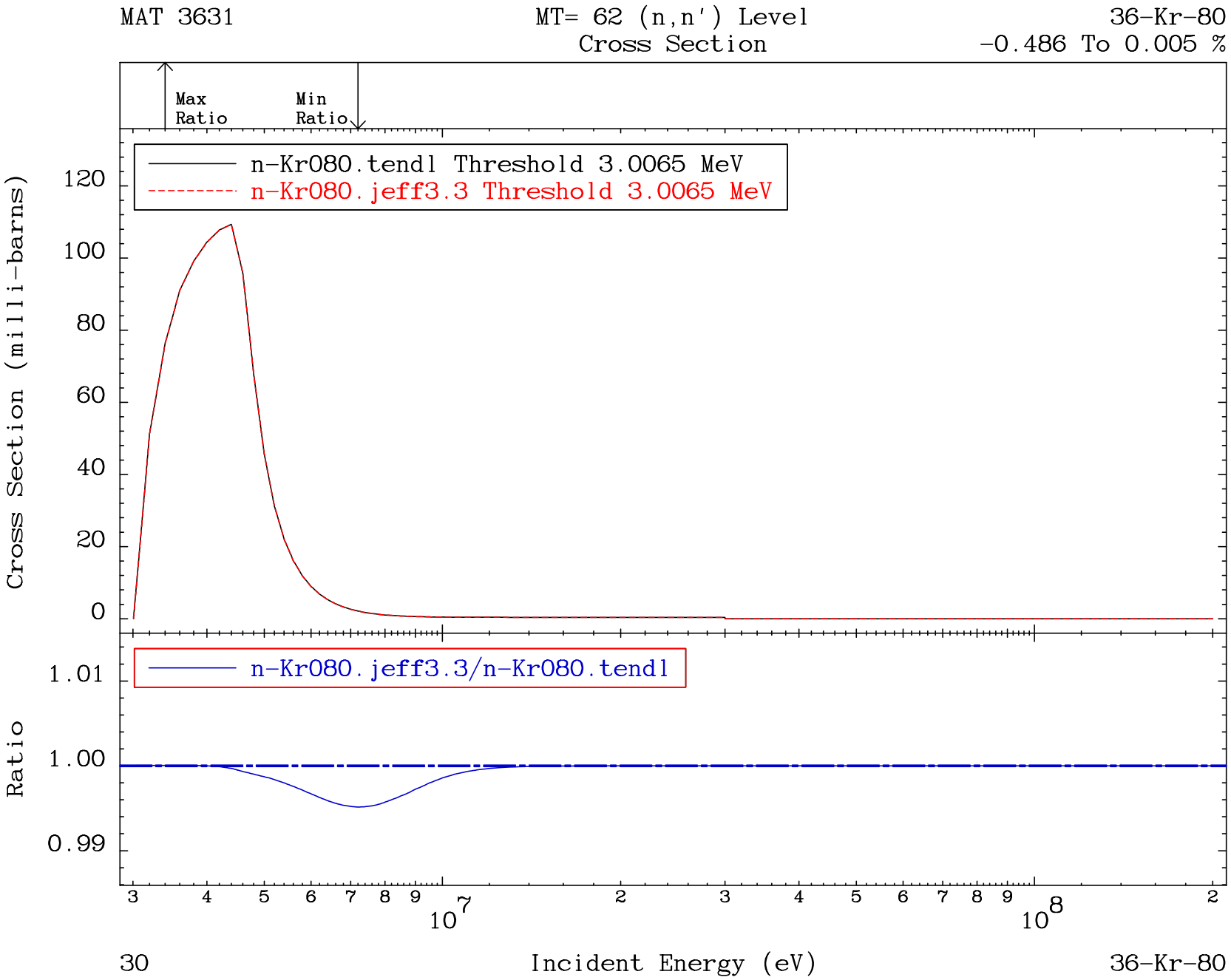

MAT 3631
MT= 57 (n,n') Level
Cross Section
36-Kr-80
-0.379 To 0.013 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 2.4223 MeV
n-Kr080.jeff3.3 Threshold 2.4223 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
25
Incident Energy (eV)
36-Kr-80

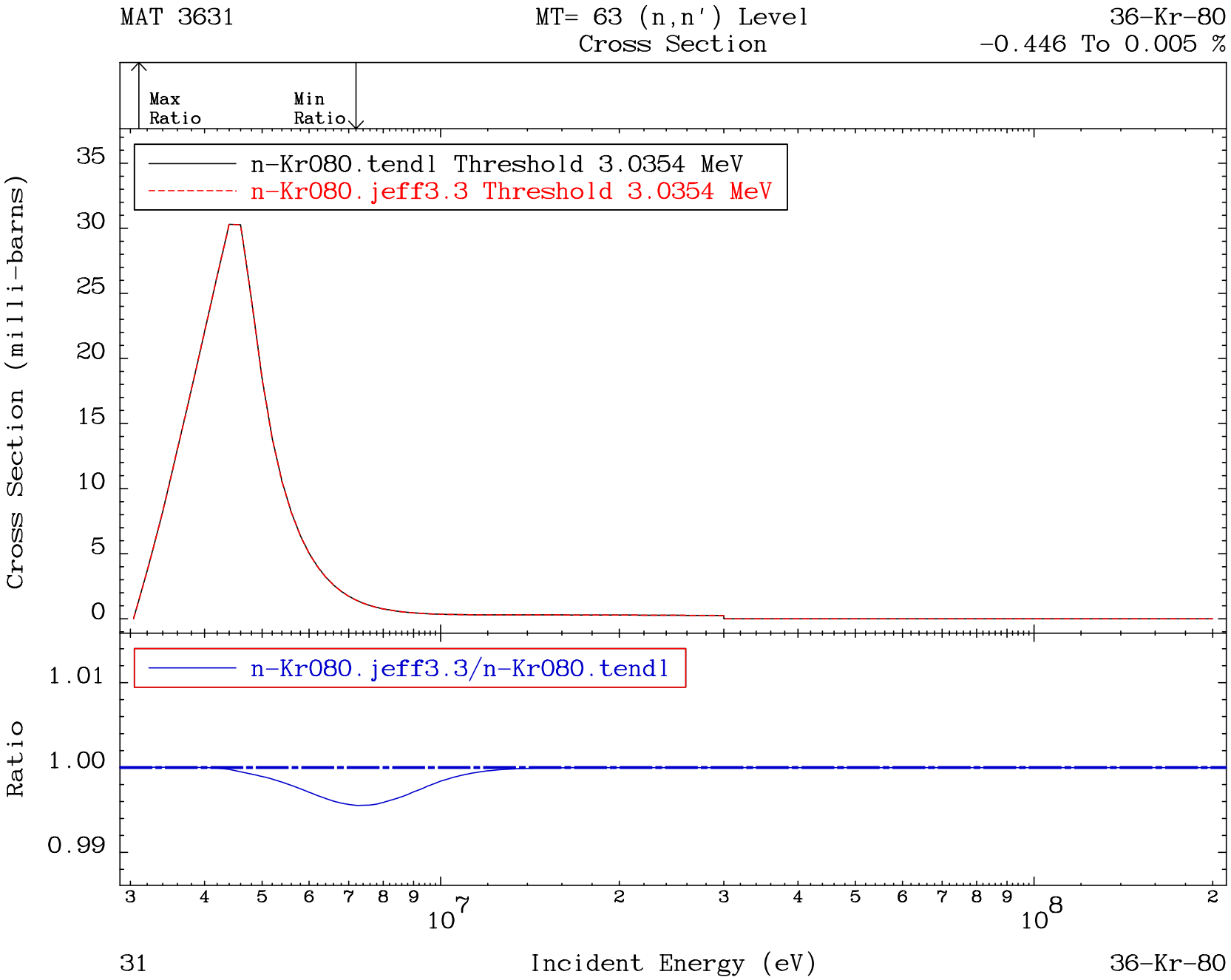

MAT 3631
MT= 58 (n,n') Level
Cross Section
36-Kr-80
-0.111 To 0.004 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 2.4700 MeV
n-Kr080.jeff3.3 Threshold 2.4700 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
36-Kr-80

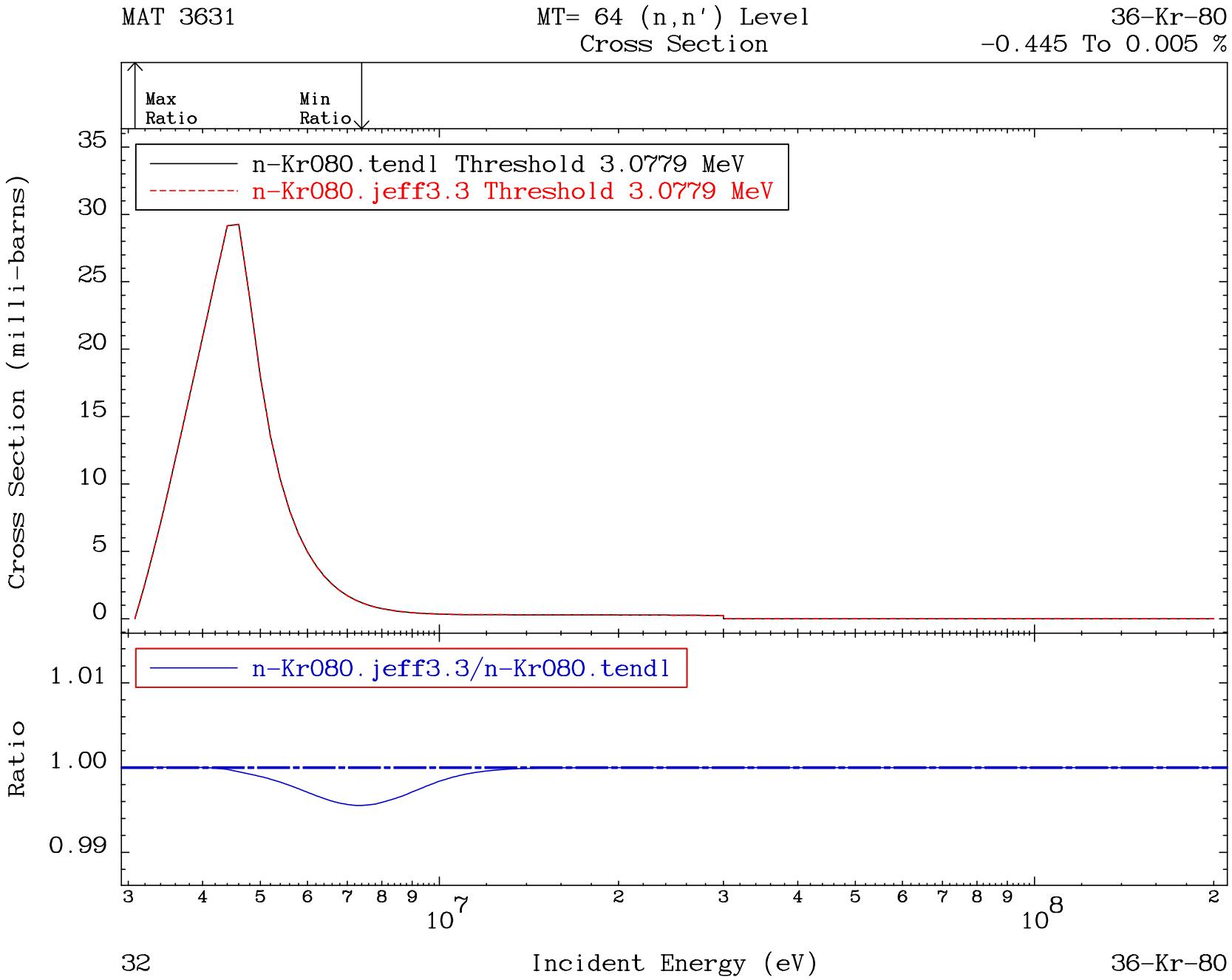

MAT 3631
MT= 59 (n,n') Level
Cross Section
36-Kr-80
-2.185 To 0.006 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 2.6933 MeV
n-Kr080.jeff3.3 Threshold 2.6933 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
36-Kr-80

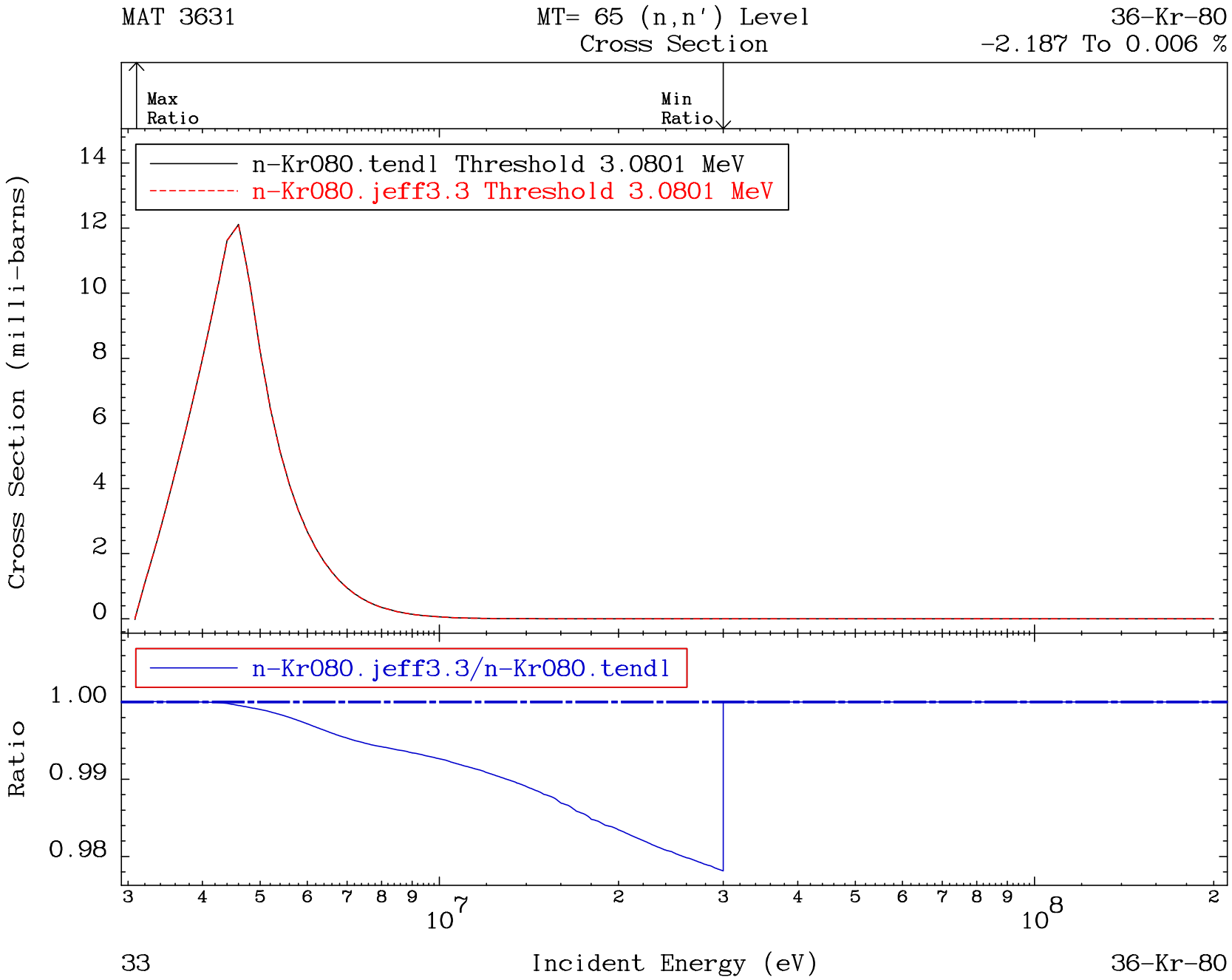

MAT 3631
MT= 60 (n,n') Level
Cross Section
36-Kr-80
-2.184 To 0.005 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 2.8283 MeV
n-Kr080.jeff3.3 Threshold 2.8283 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
36-Kr-80

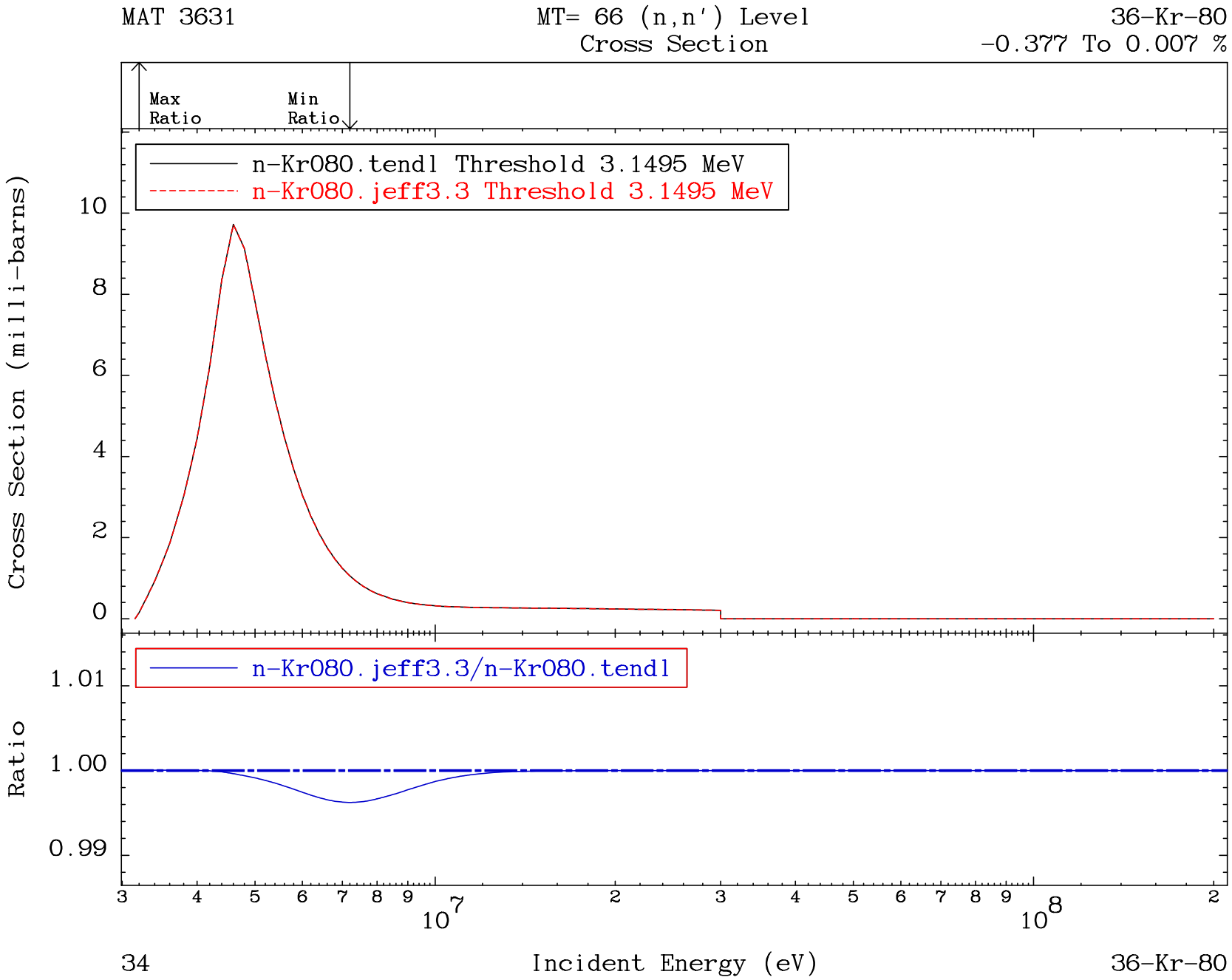

MAT 3631
MT= 61 (n,n') Level
Cross Section
36-Kr-80
-0.448 To 0.008 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 2.8956 MeV
n-Kr080.jeff3.3 Threshold 2.8956 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
36-Kr-80

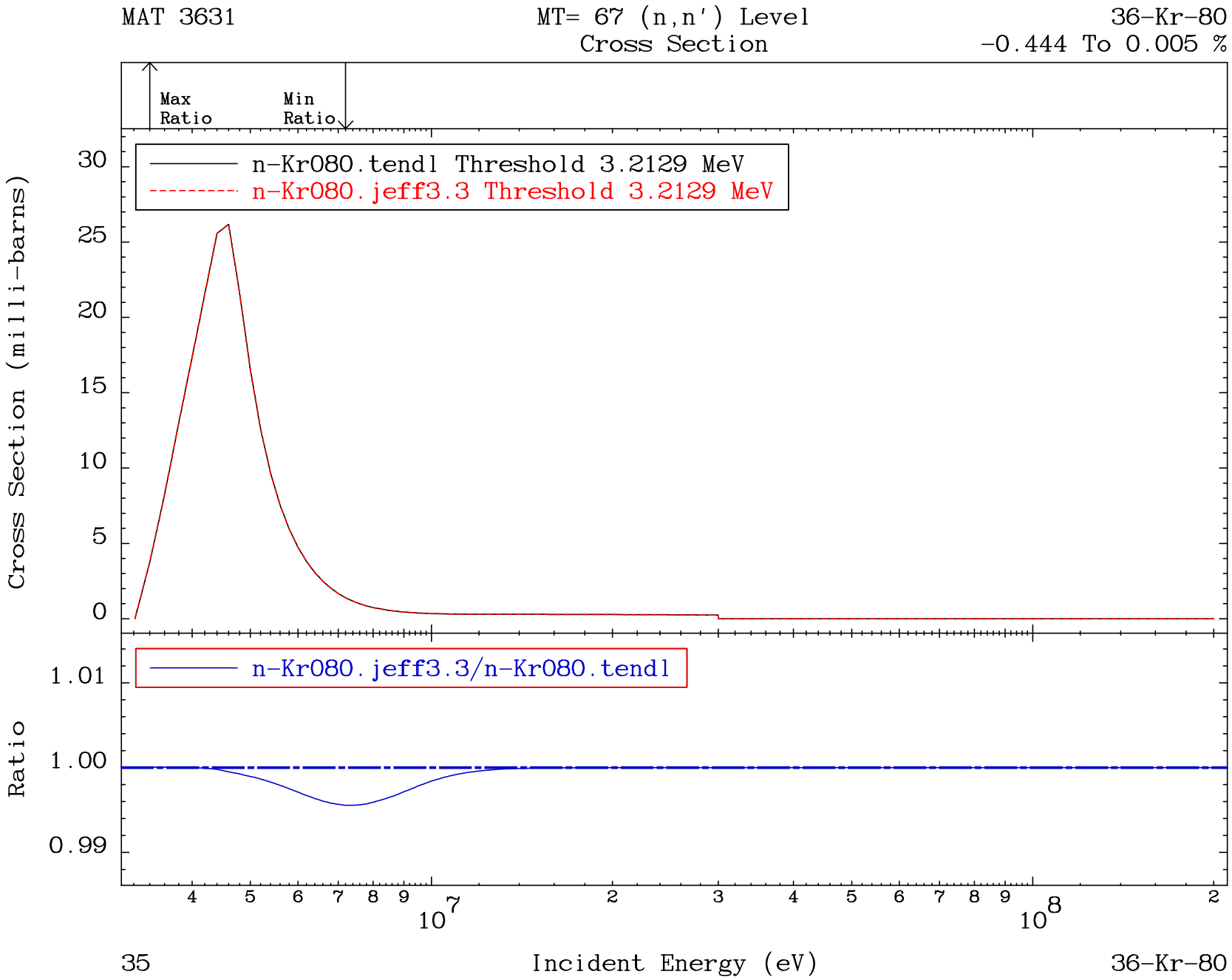

MAT 3631
MT= 62 (n,n') Level
Cross Section
36-Kr-80
-0.486 To 0.005 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.0065 MeV
n-Kr080.jeff3.3 Threshold 3.0065 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
36-Kr-80

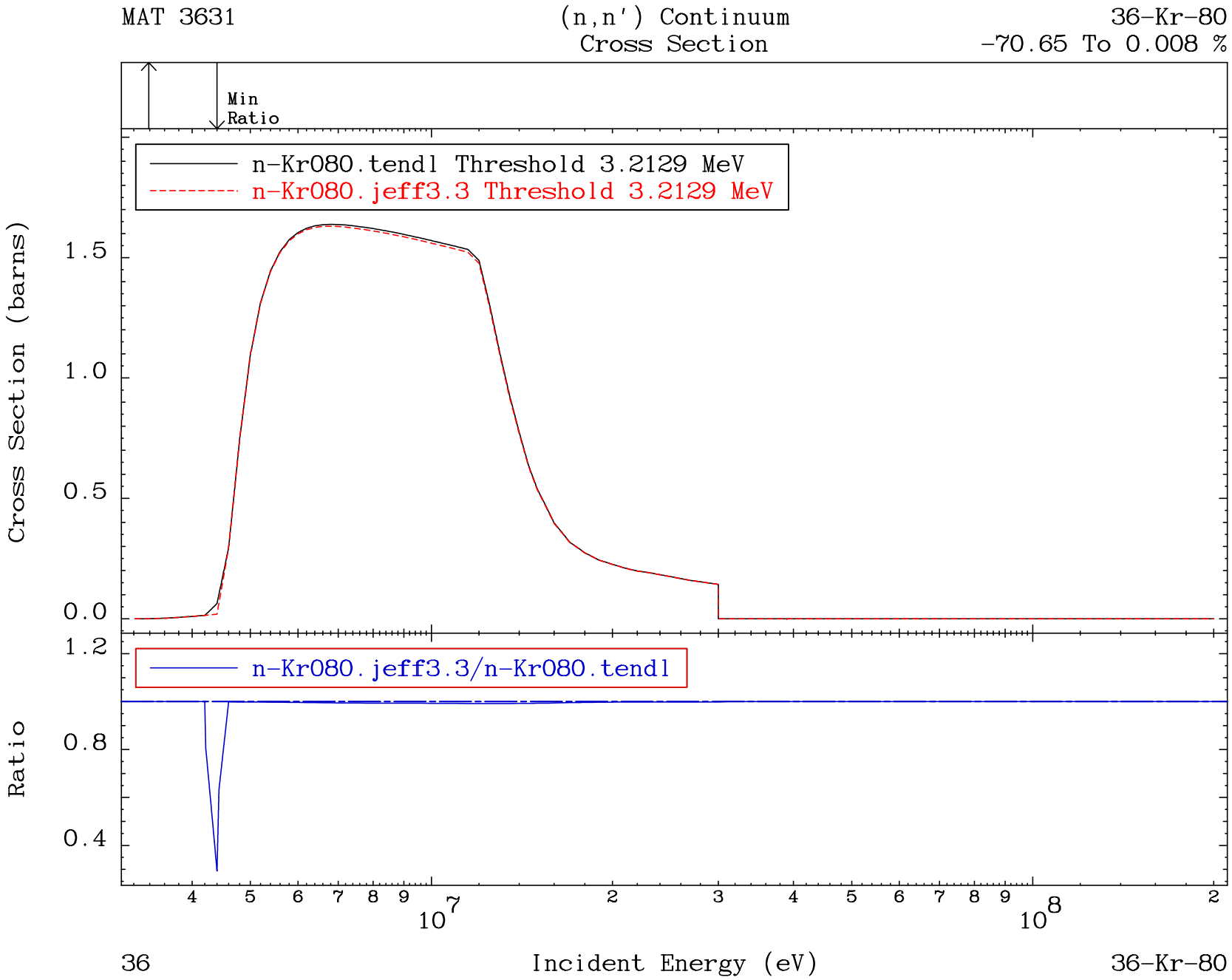

MAT 3631
MT= 63 (n,n') Level
Cross Section
36-Kr-80
-0.446 To 0.005 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.0354 MeV
n-Kr080.jeff3.3 Threshold 3.0354 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
36-Kr-80

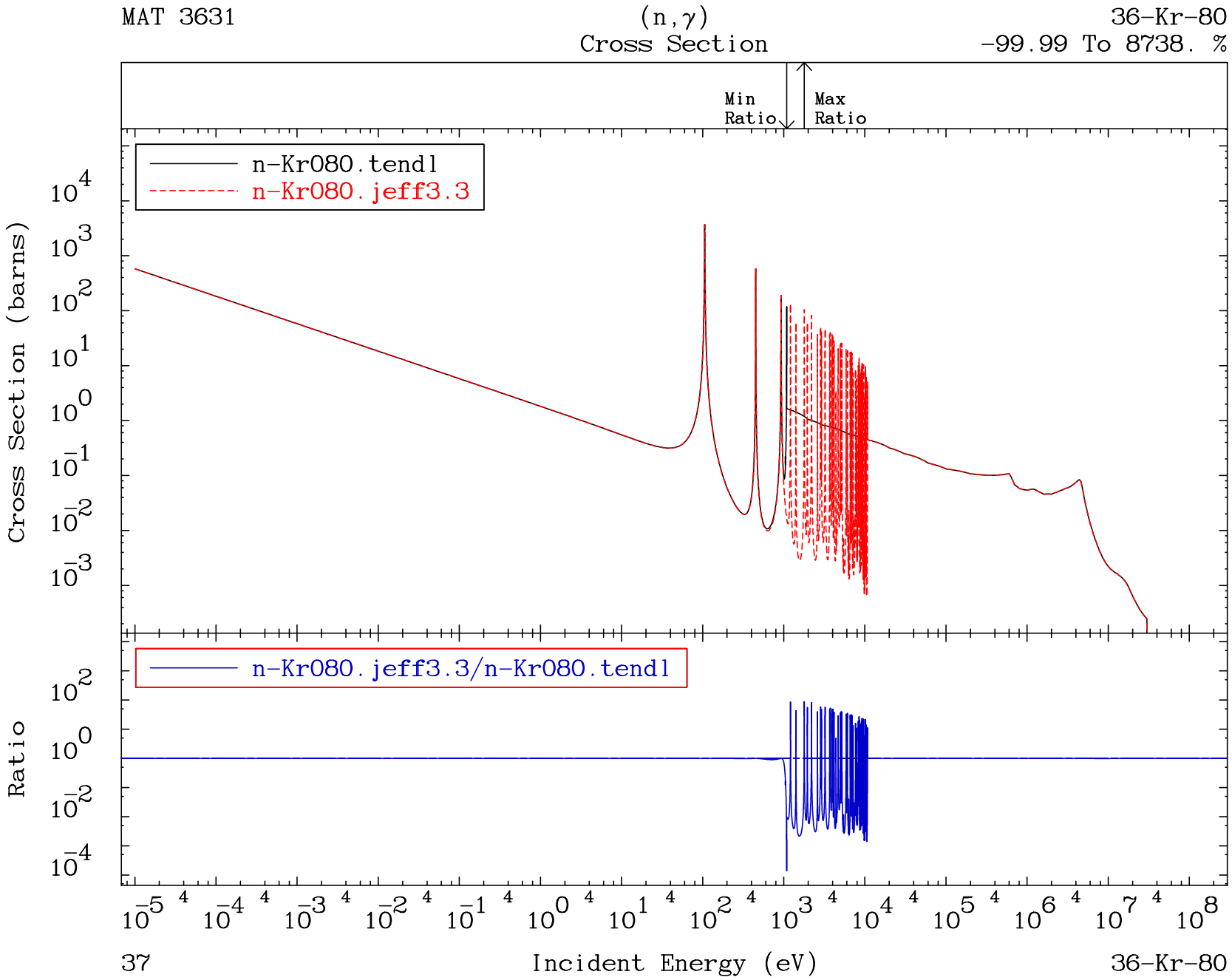

MAT 3631
MT= 64 (n,n') Level
Cross Section
36-Kr-80
-0.445 To 0.005 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.0779 MeV
n-Kr080.jeff3.3 Threshold 3.0779 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
36-Kr-80

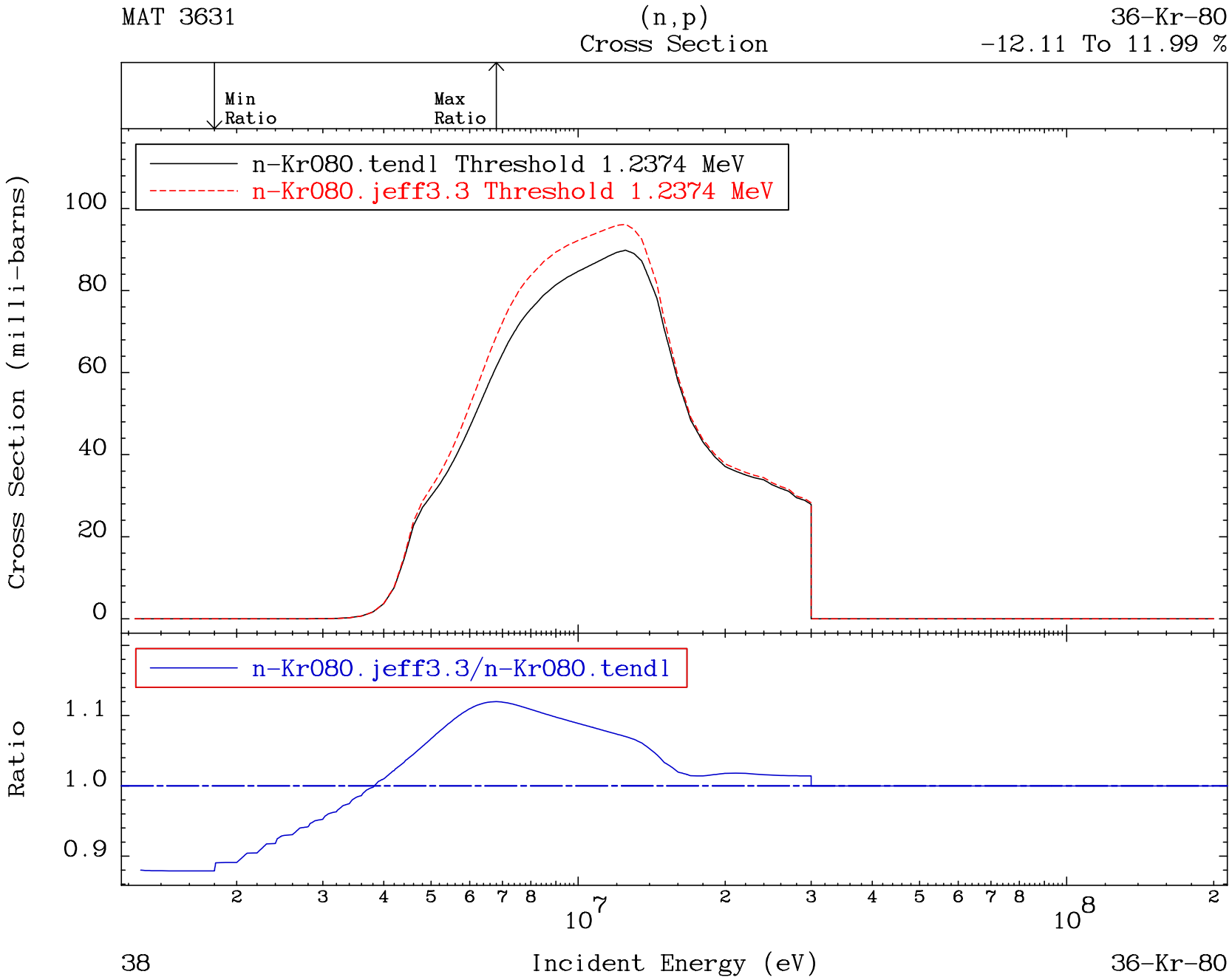

MAT 3631
MT= 65 (n,n') Level
Cross Section
36-Kr-80
-2.187 To 0.006 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.0801 MeV
n-Kr080.jeff3.3 Threshold 3.0801 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
36-Kr-80

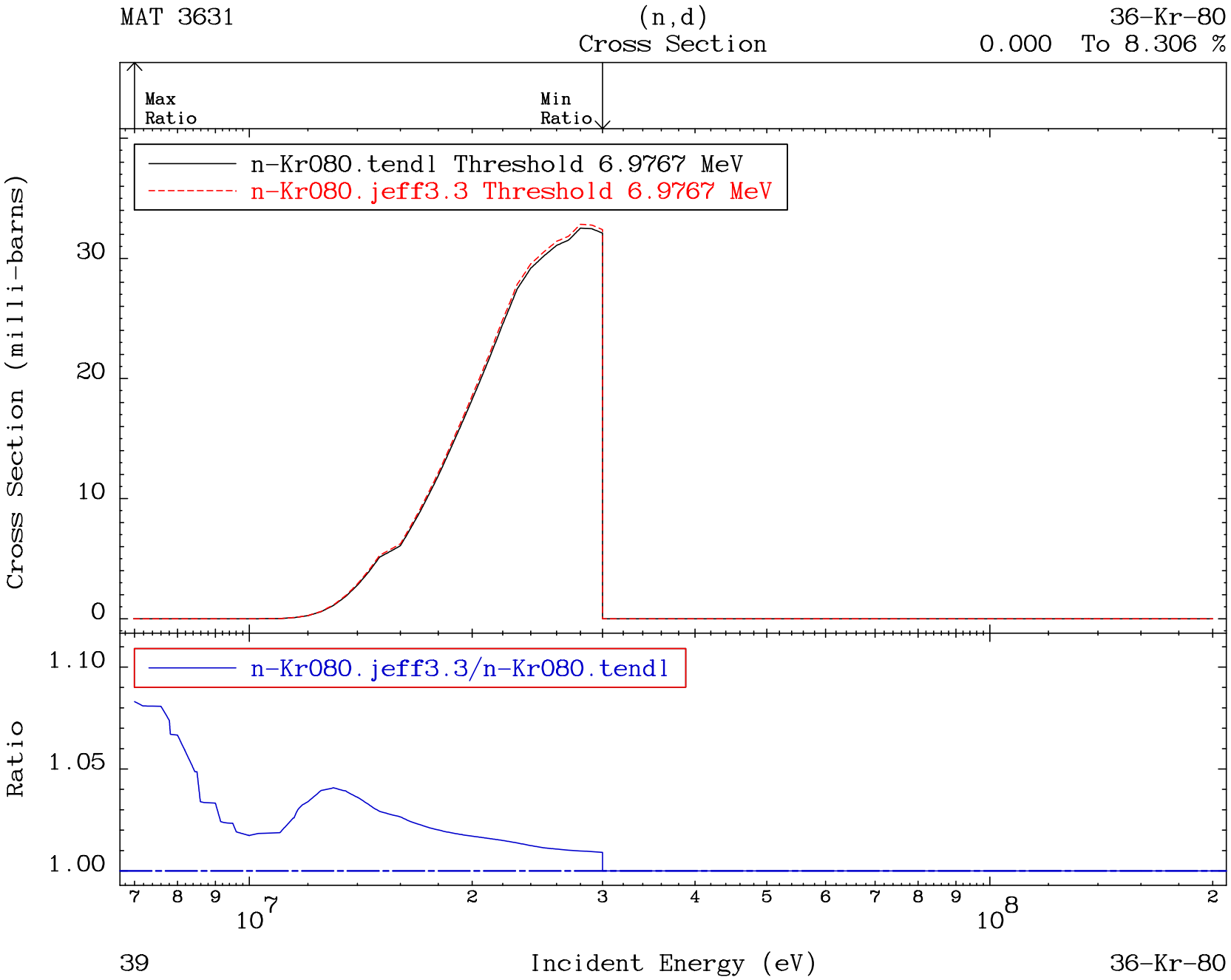

MAT 3631
MT= 66 (n,n') Level
Cross Section
36-Kr-80
-0.377 To 0.007 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.1495 MeV
n-Kr080.jeff3.3 Threshold 3.1495 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
36-Kr-80

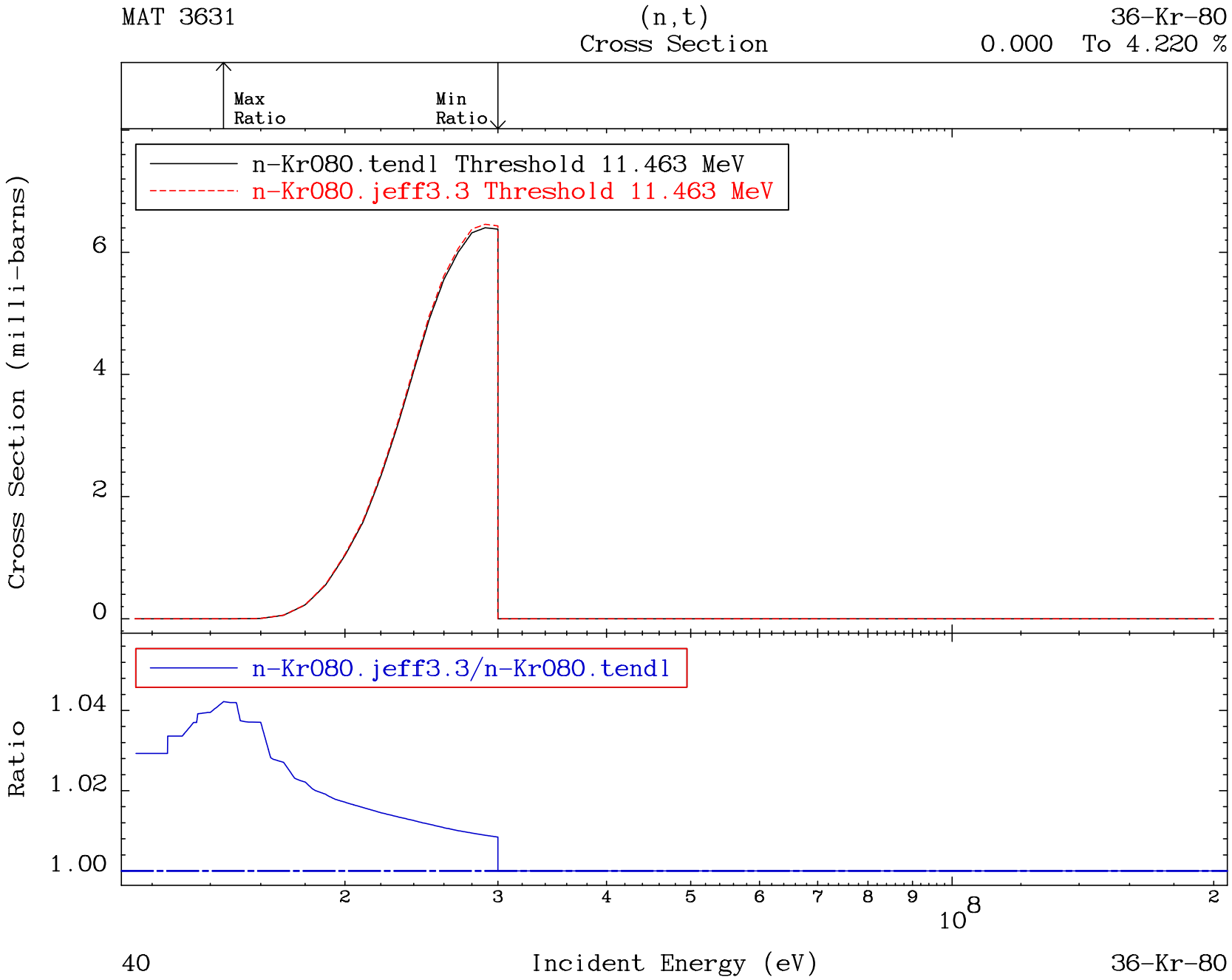

MAT 3631
MT= 67 (n,n') Level
Cross Section
36-Kr-80
-0.444 To 0.005 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.2129 MeV
n-Kr080.jeff3.3 Threshold 3.2129 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
35
Incident Energy (eV)
36-Kr-80

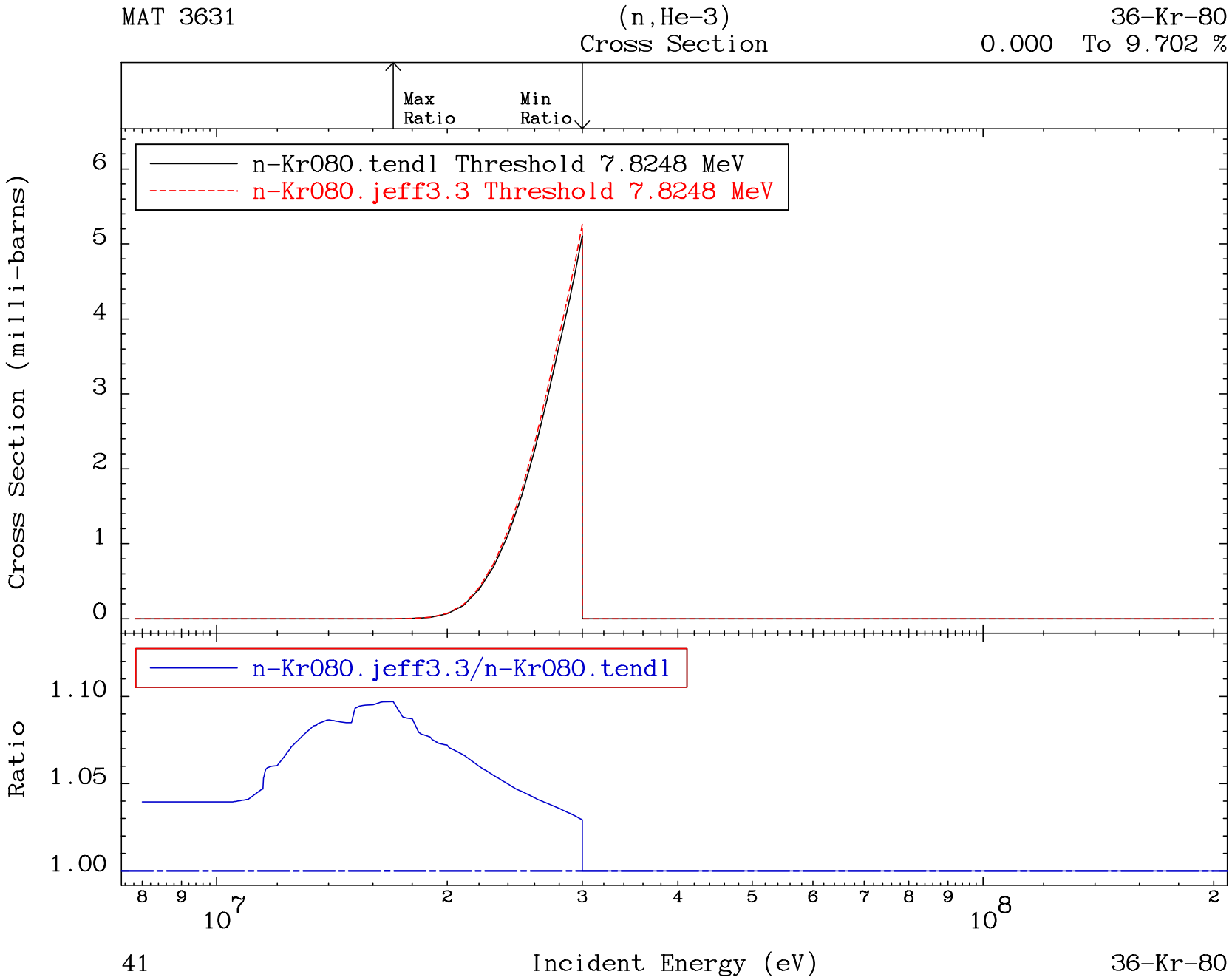

MAT 3631
(n,n') Continuum
Cross Section
36-Kr-80
-70.65 To 0.008 %
Min
Ratio
n-Kr080.tendl Threshold 3.2129 MeV
n-Kr080.jeff3.3 Threshold 3.2129 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
1.2
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
0.8
0.4
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
36
Incident Energy (eV)
36-Kr-80

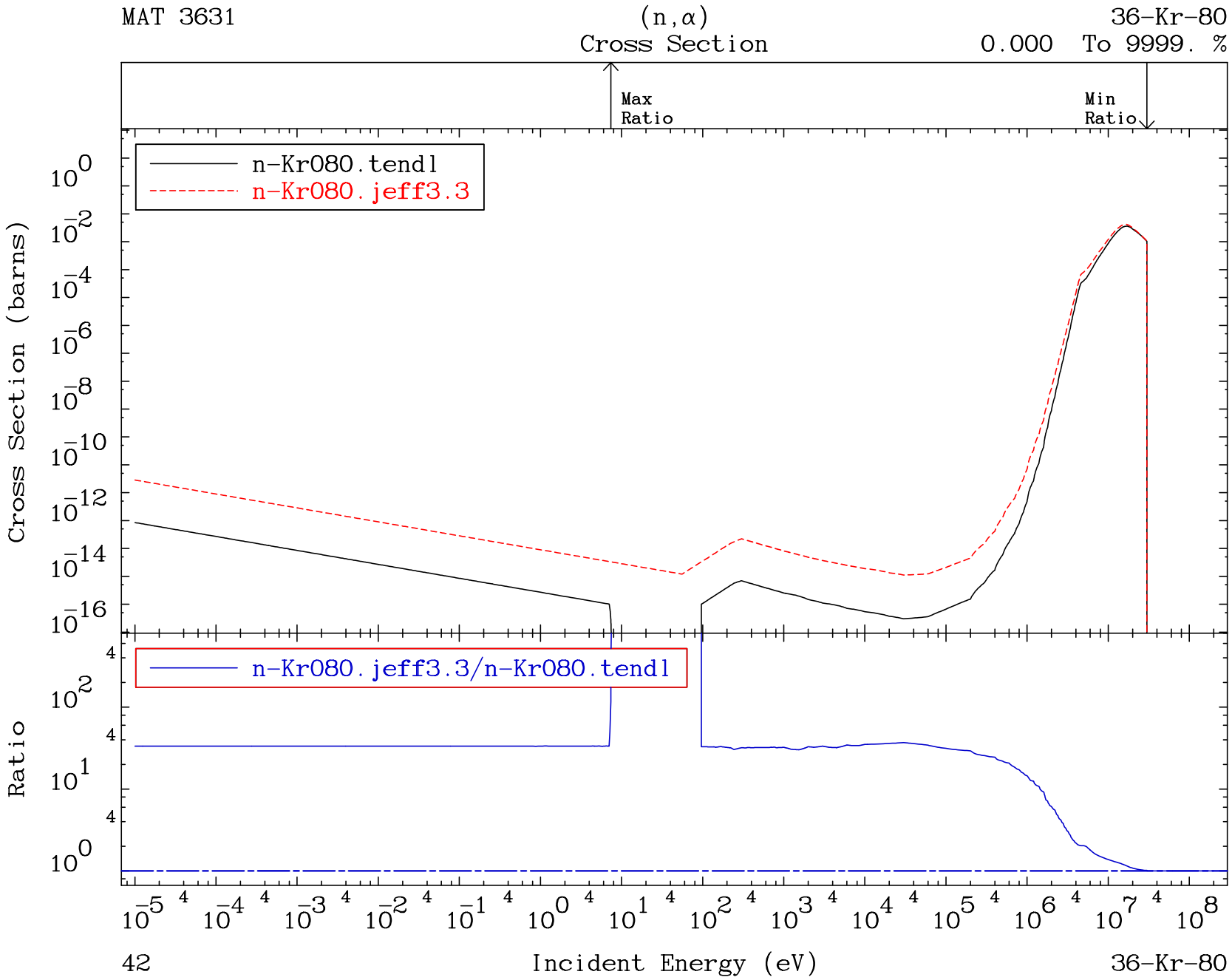

MAT 3631
(n,γ)
Cross Section
36-Kr-80
-99.99 To 8738. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
37
36-Kr-80

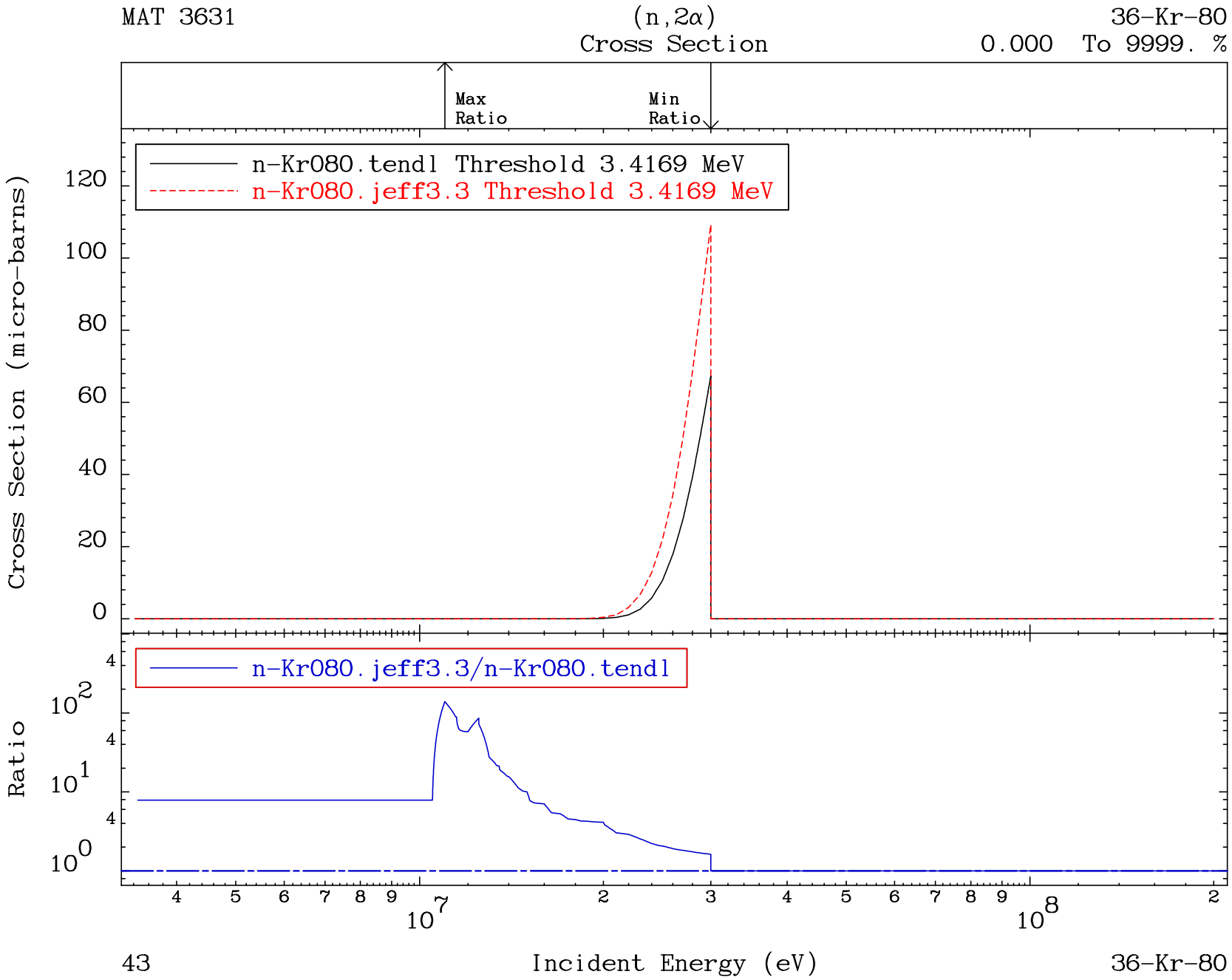

MAT 3631
(n,p)
Cross Section
36-Kr-80
-12.11 To 11.99 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 1.2374 MeV
n-Kr080.jeff3.3 Threshold 1.2374 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
36-Kr-80

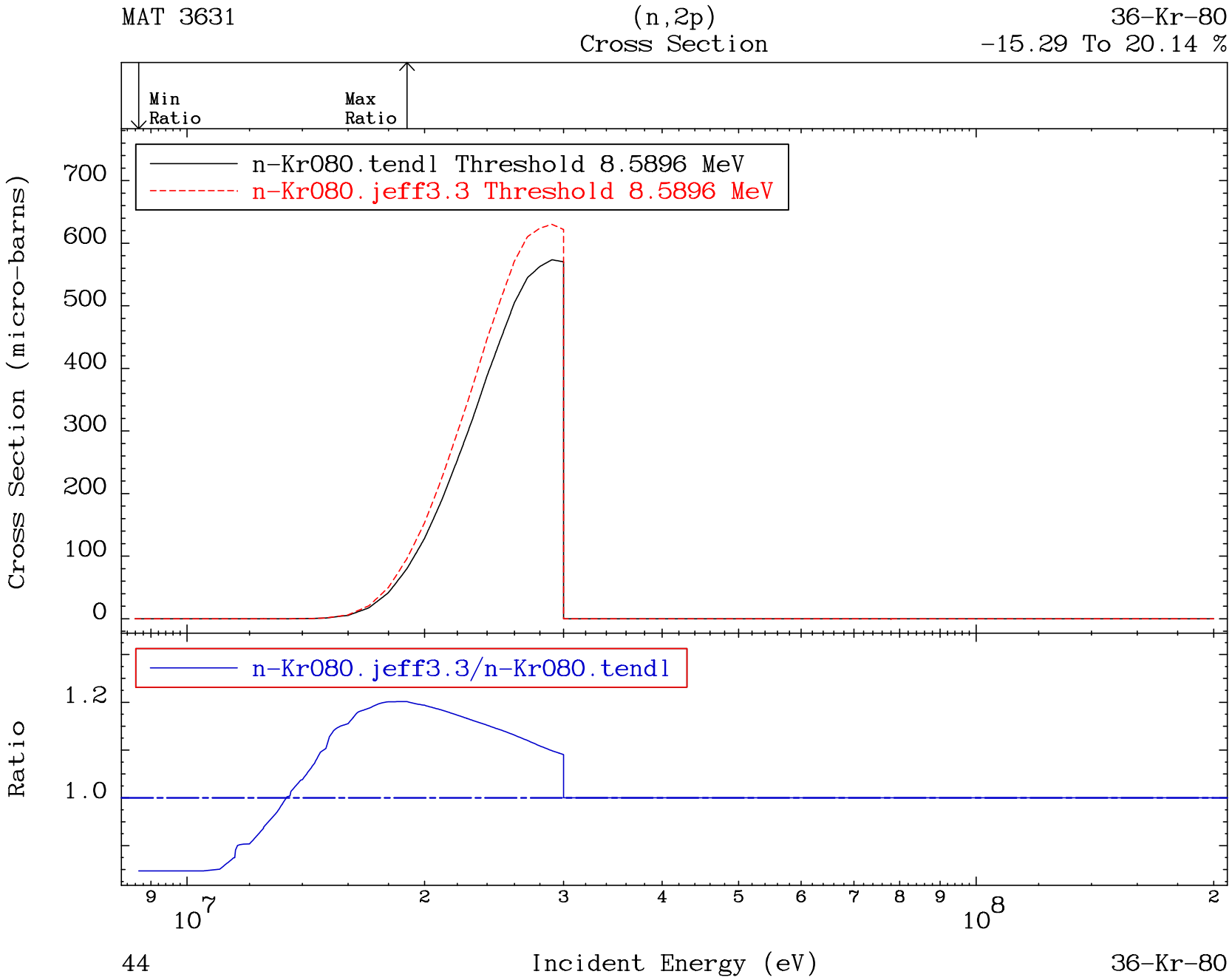

MAT 3631
(n,d)
Cross Section
36-Kr-80
0.000 To 8.306 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 6.9767 MeV
n-Kr080.jeff3.3 Threshold 6.9767 MeV
Cross Section (milli-barns)
30
20
10
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
36-Kr-80

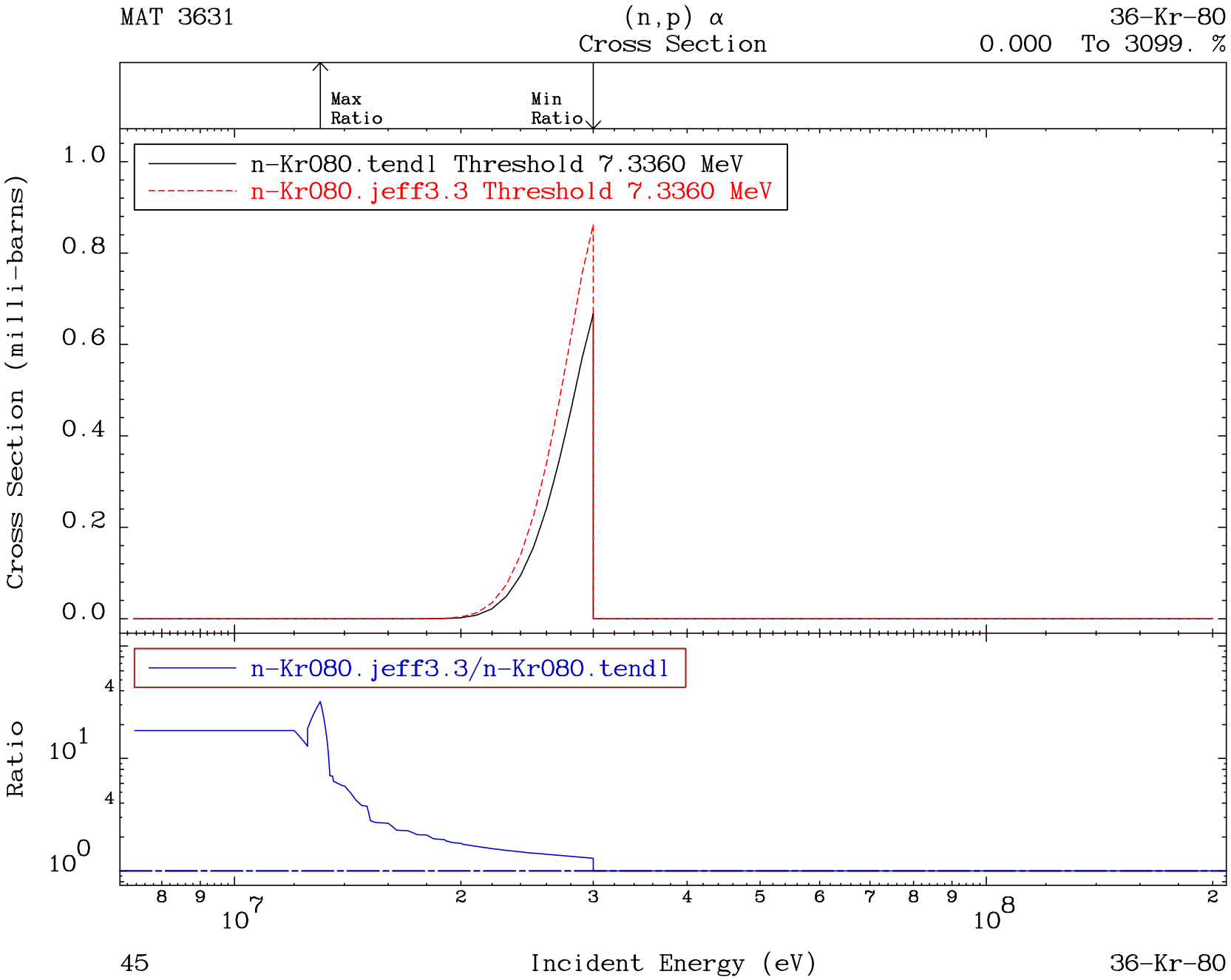

MAT 3631
(n,t)
Cross Section
36-Kr-80
0.000 To 4.220 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 11.463 MeV
n-Kr080.jeff3.3 Threshold 11.463 MeV
Cross Section (milli-barns)
0
2
4
6
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
1.02
1.04
2
3
4
5
6
7
8
9
10^8
2
40
Incident Energy (eV)
36-Kr-80

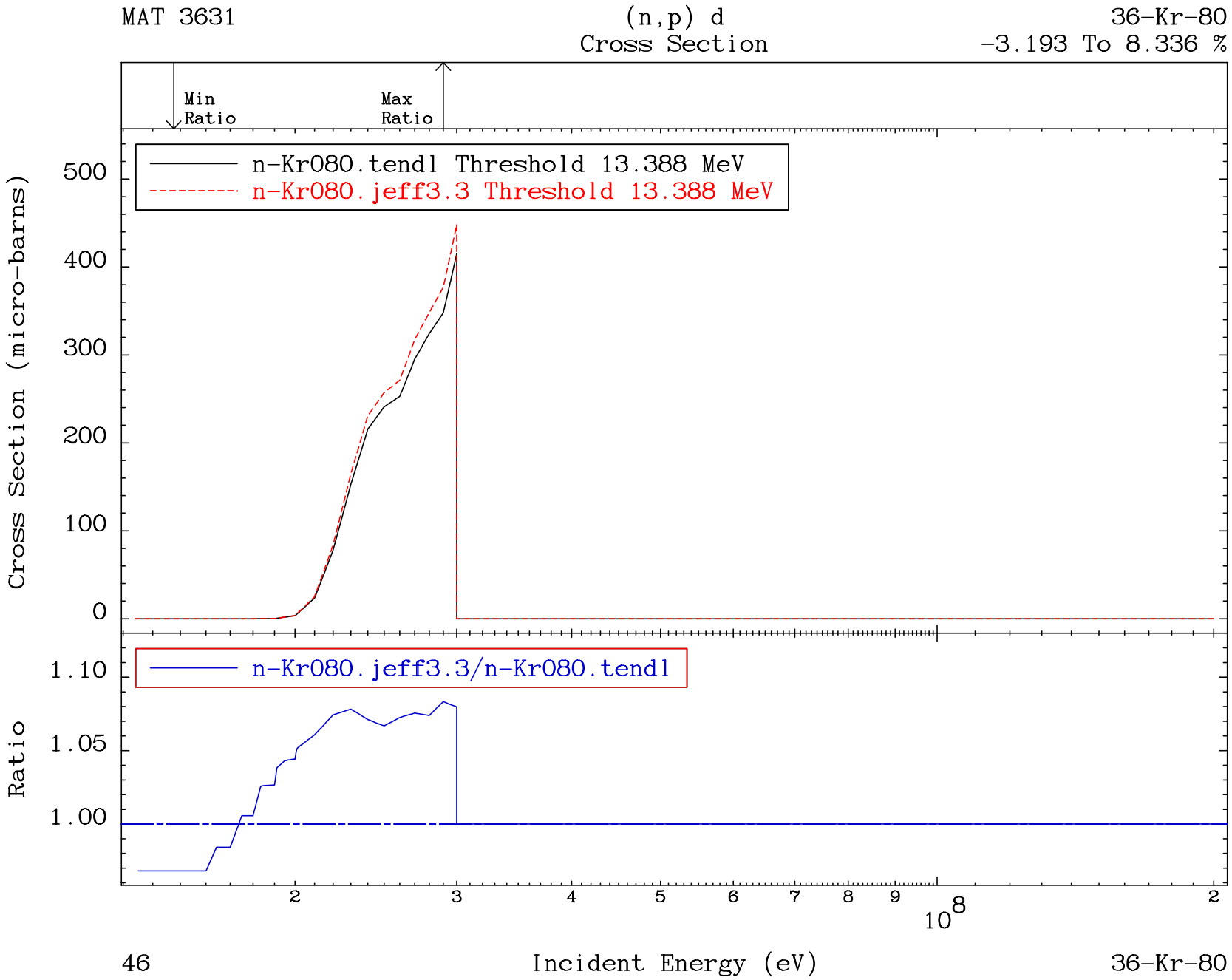

MAT 3631
(n,He-3)
Cross Section
36-Kr-80
0.000 To 9.702 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 7.8248 MeV
n-Kr080.jeff3.3 Threshold 7.8248 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
1.05
1.10
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
36-Kr-80

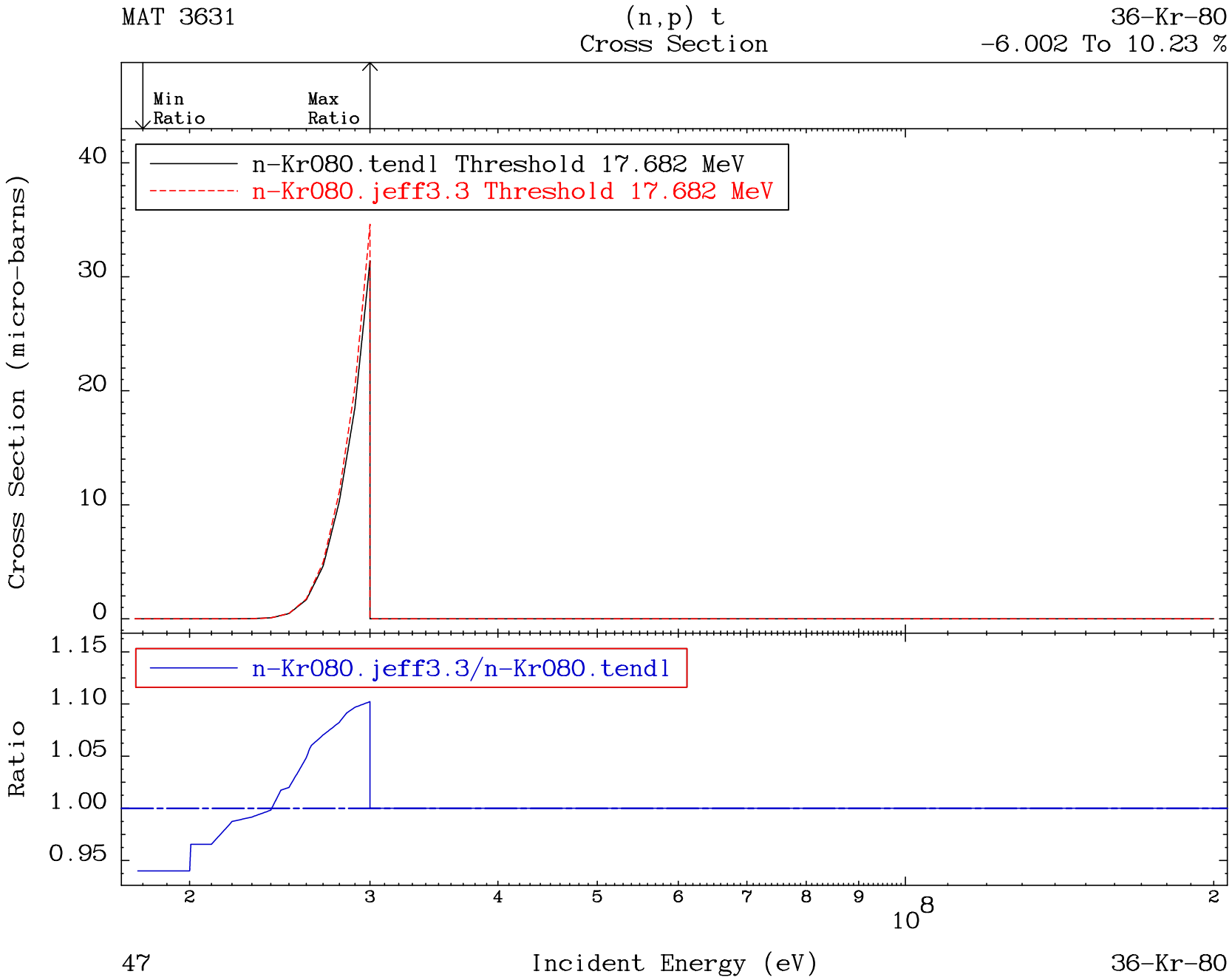

MAT 3631
(n,α)
Cross Section
36-Kr-80
0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
42
36-Kr-80

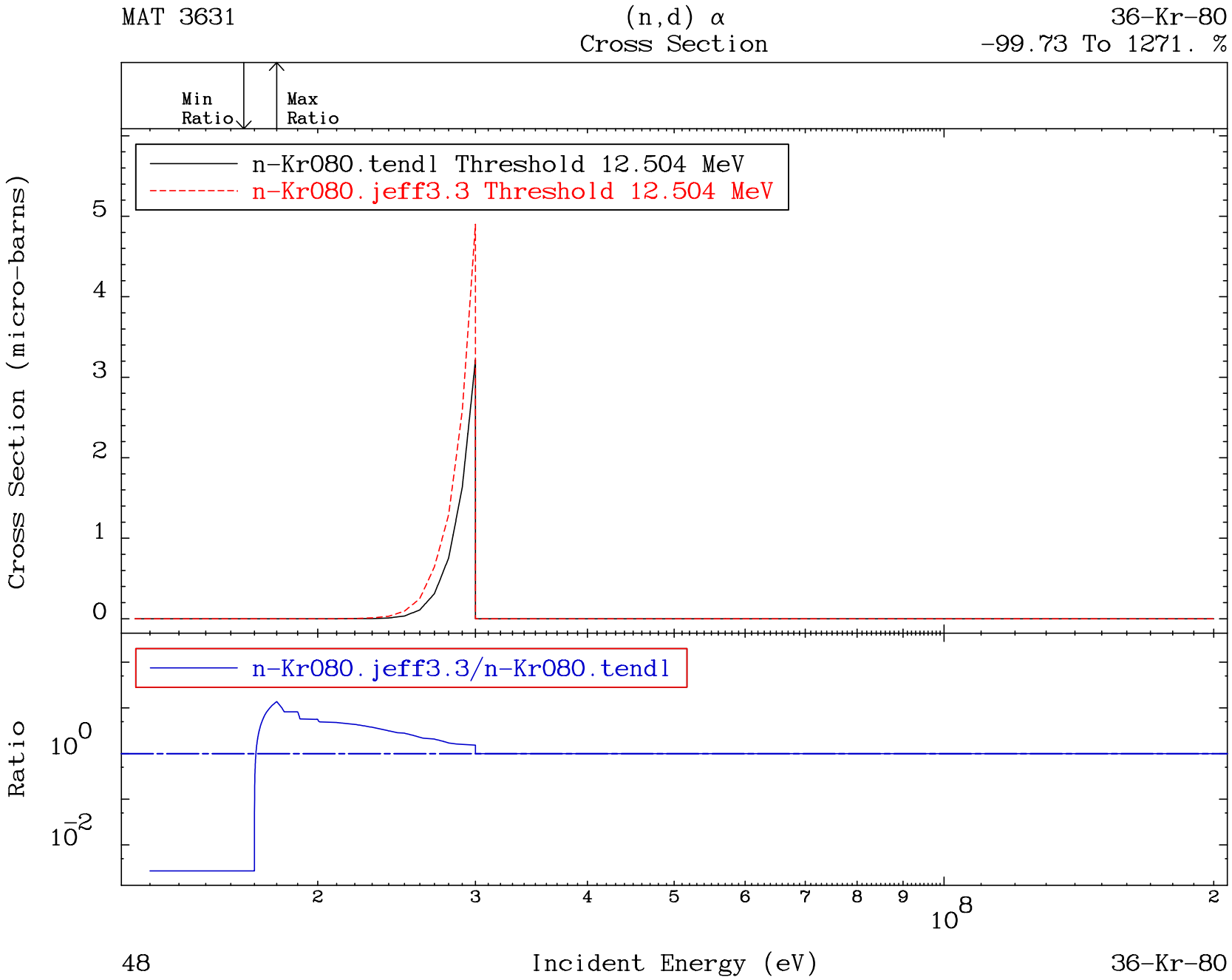

MAT 3631
(n,2α)
Cross Section
36-Kr-80
0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.4169 MeV
n-Kr080.jeff3.3 Threshold 3.4169 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^2
10^1
10^0
4
4
4
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
43
Incident Energy (eV)
36-Kr-80

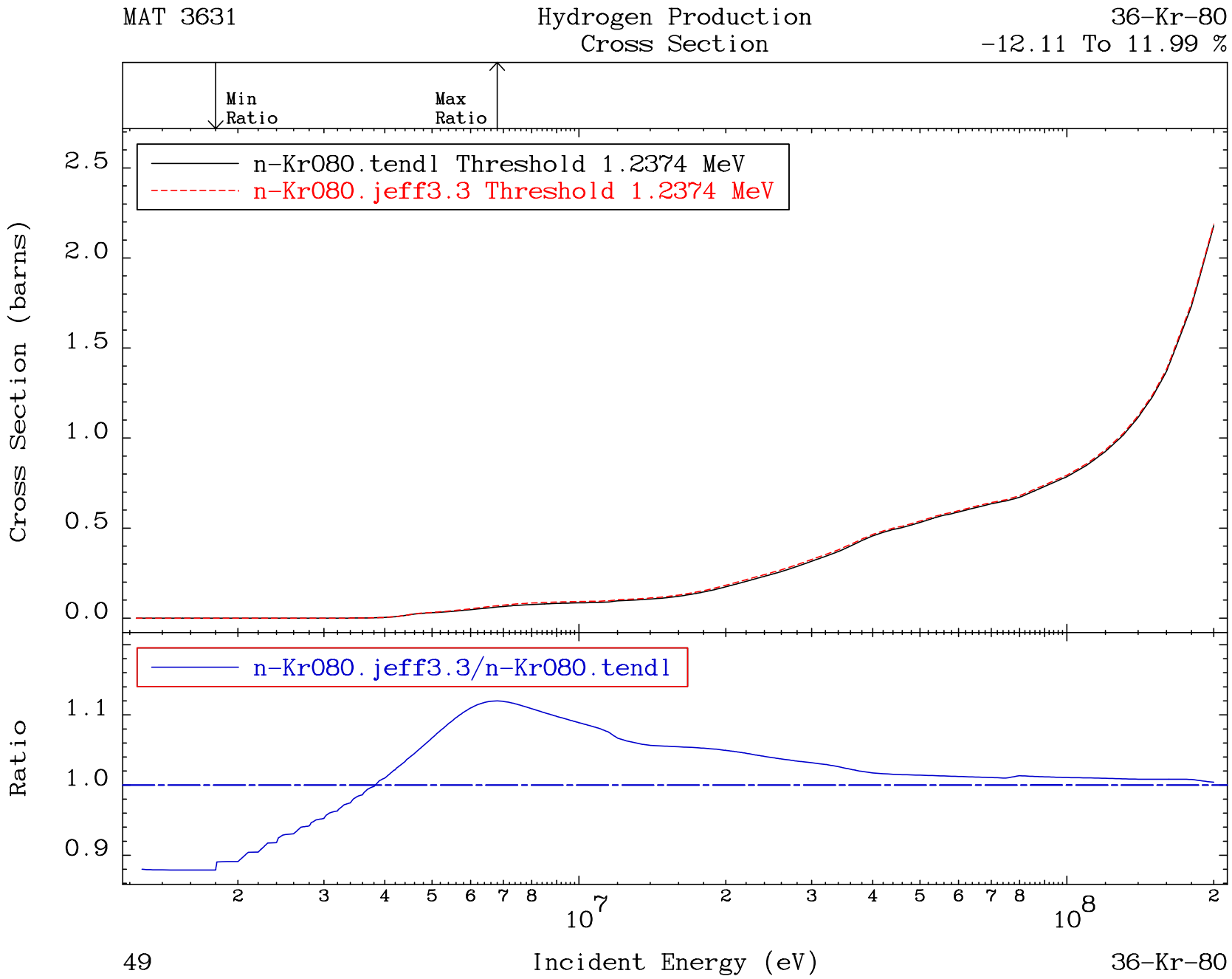

MAT 3631
(n,2p)
Cross Section
36-Kr-80
-15.29 To 20.14 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 8.5896 MeV
n-Kr080.jeff3.3 Threshold 8.5896 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
36-Kr-80

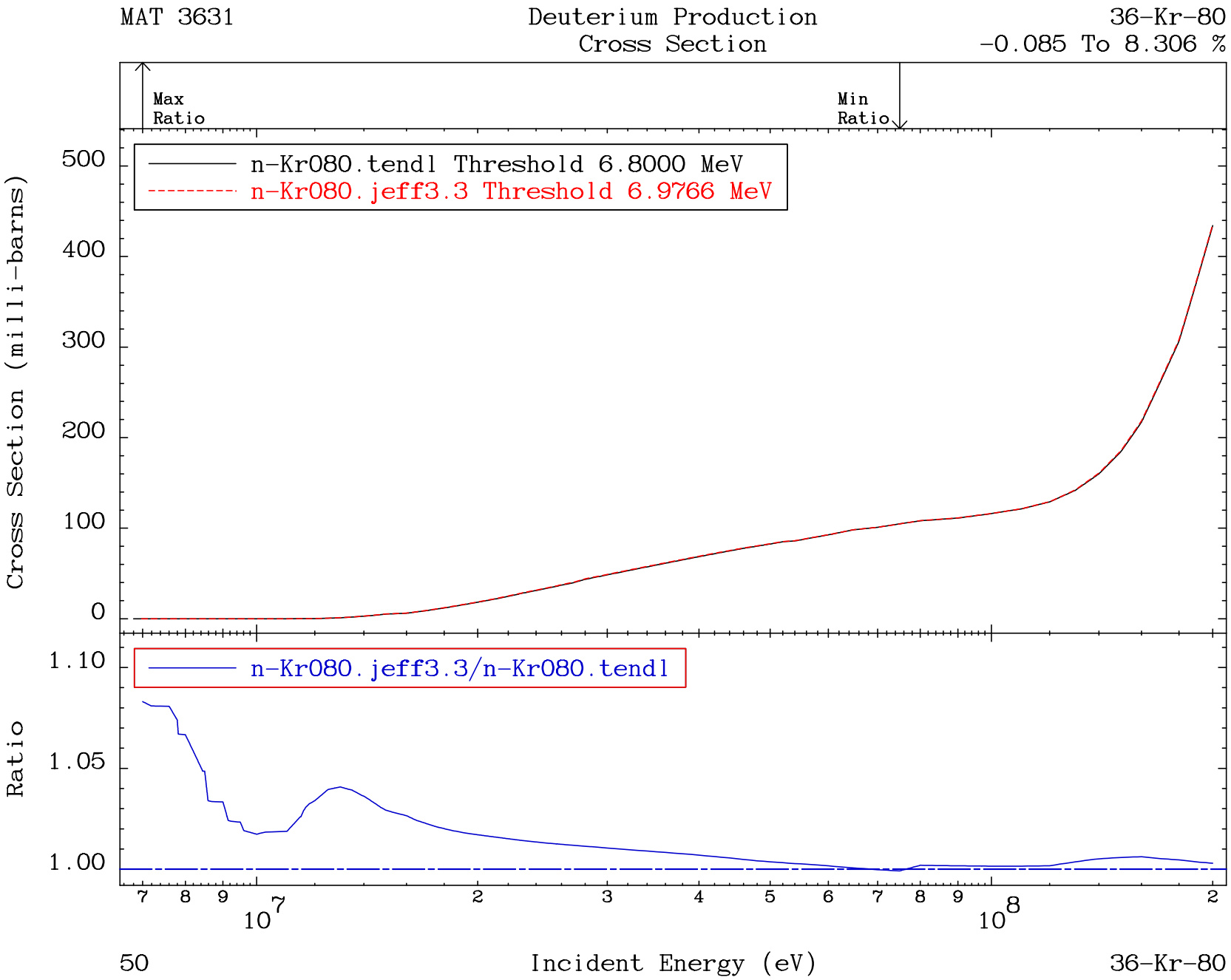

MAT 3631
(n,p) α
Cross Section
36-Kr-80
0.000 To 3099. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 7.3360 MeV
n-Kr080.jeff3.3 Threshold 7.3360 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
4
10^1
4
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
36-Kr-80

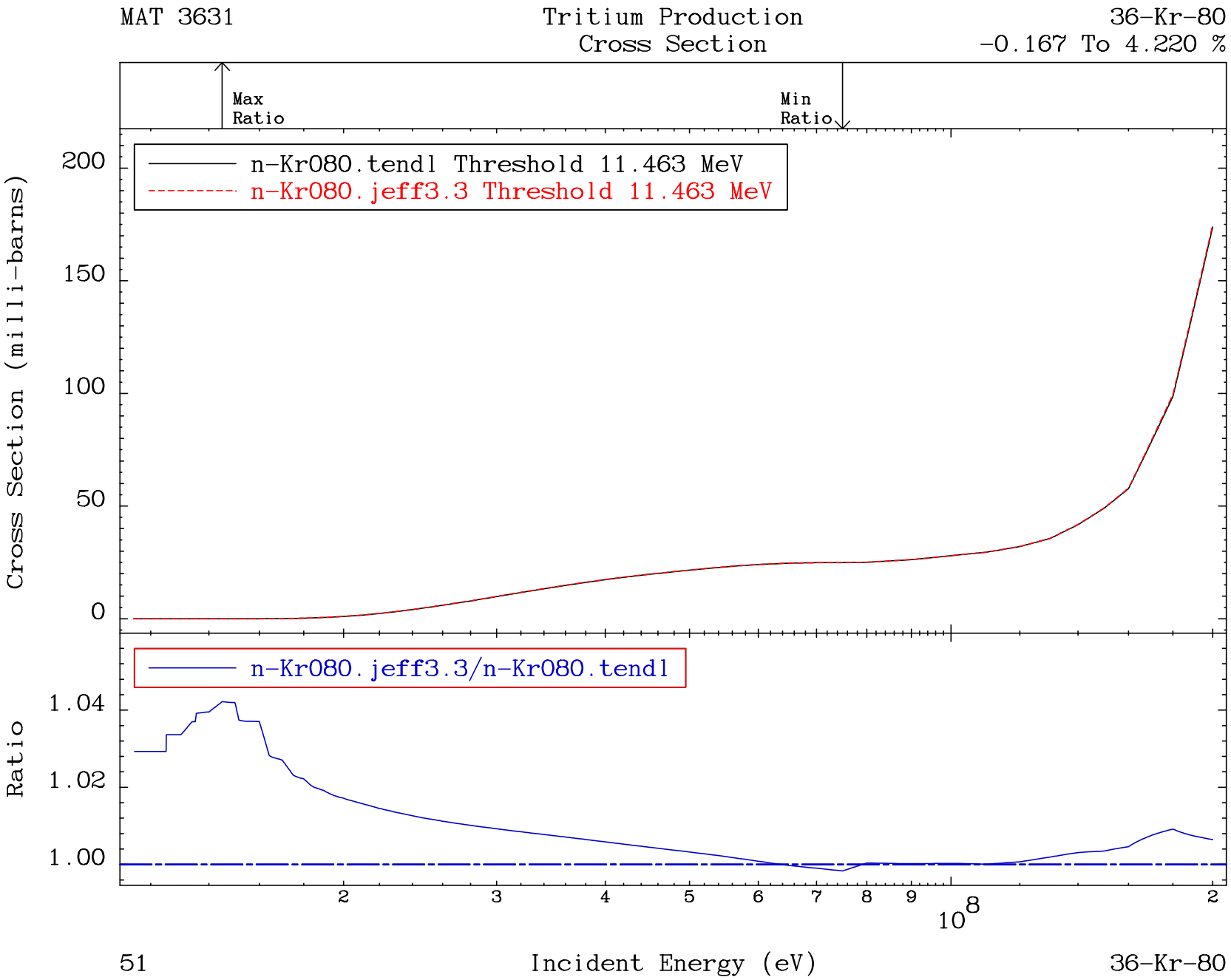

MAT 3631
(n,p) d
Cross Section
36-Kr-80
-3.193 To 8.336 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 13.388 MeV
n-Kr080.jeff3.3 Threshold 13.388 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
36-Kr-80

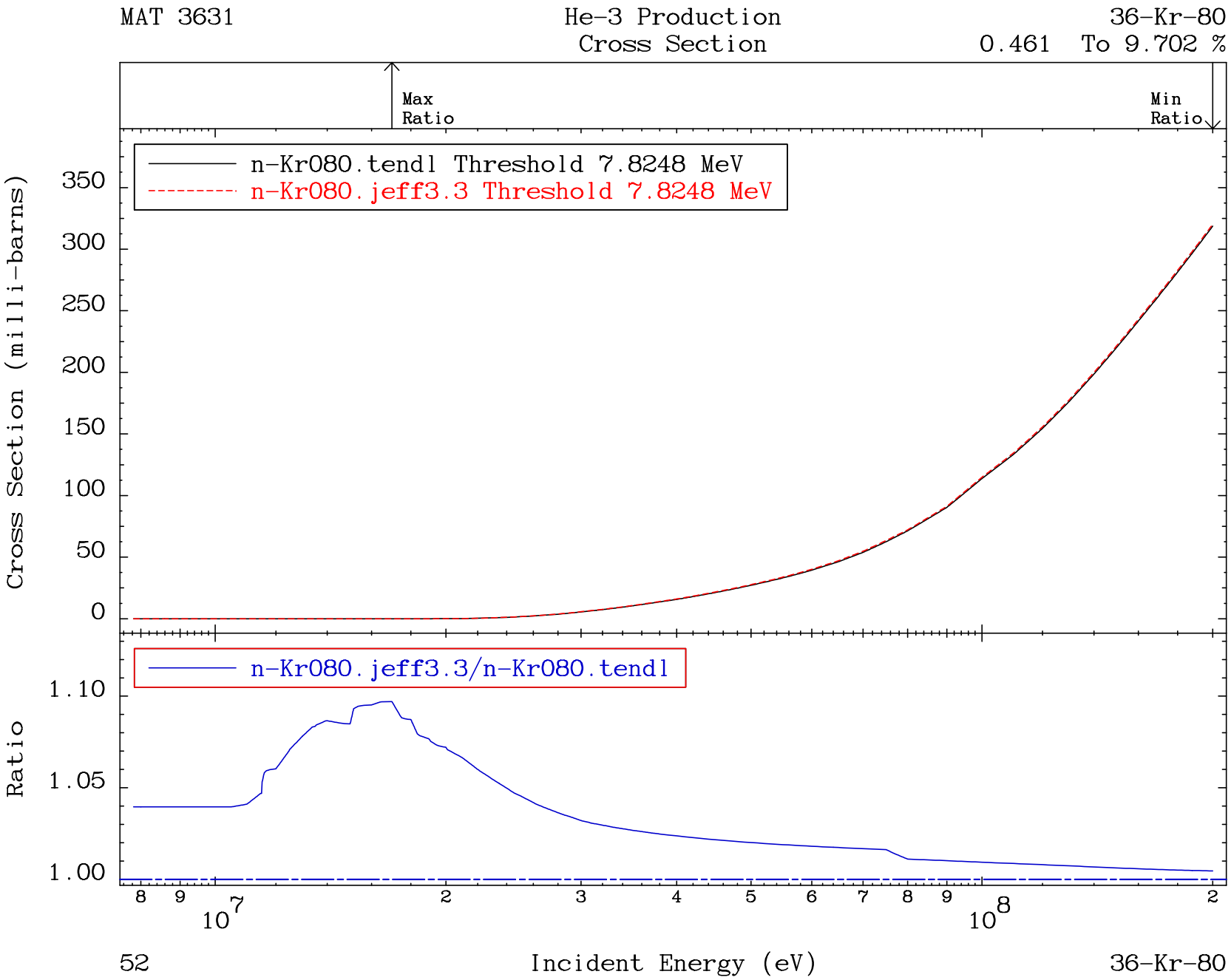

MAT 3631
(n,p) t
Cross Section
36-Kr-80
-6.002 To 10.23 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 17.682 MeV
n-Kr080.jeff3.3 Threshold 17.682 MeV
Cross Section (micro-barns)
40
30
20
10
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.15
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
36-Kr-80

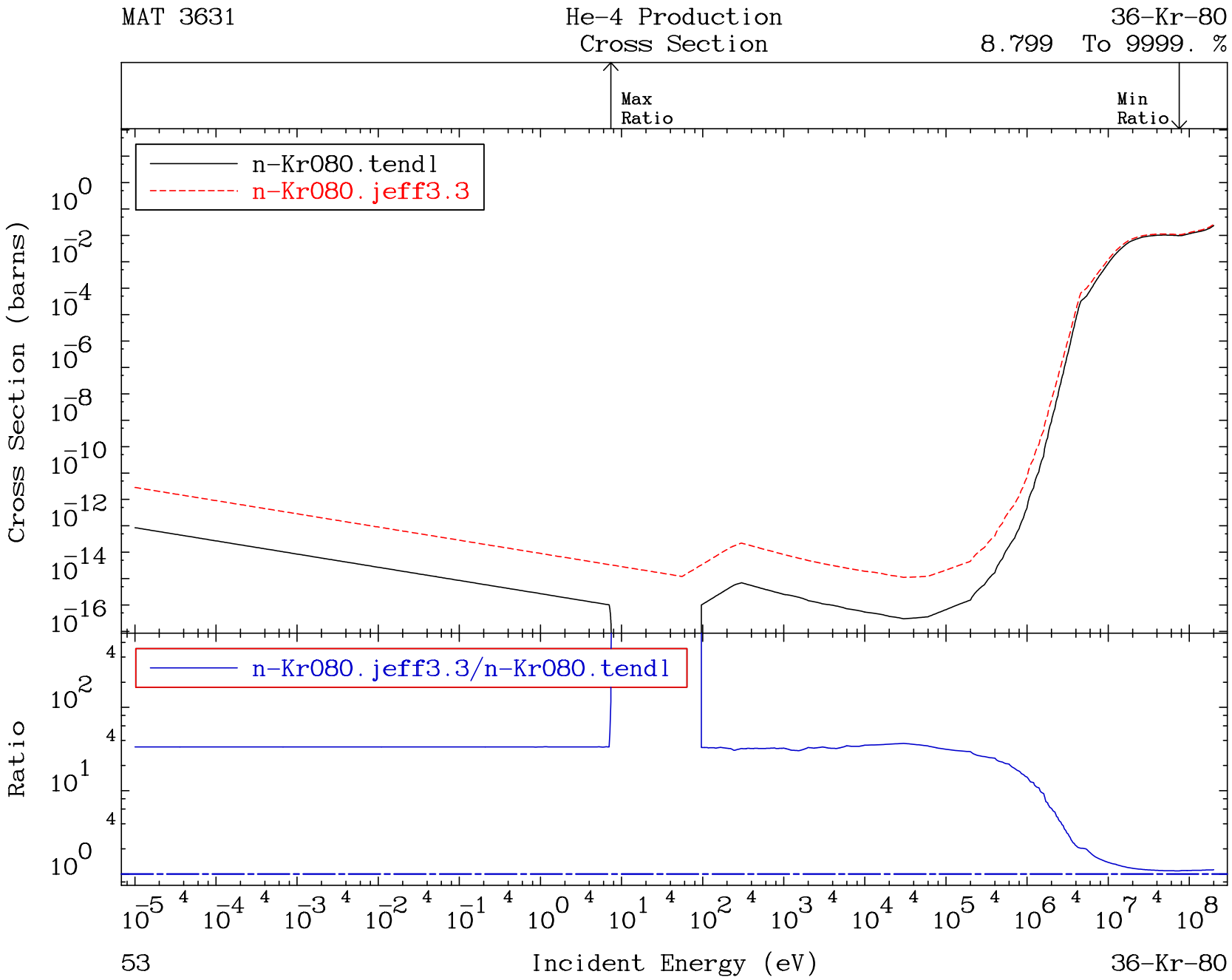

MAT 3631
(n,d) α
Cross Section
36-Kr-80
-99.73 To 1271. %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 12.504 MeV
n-Kr080.jeff3.3 Threshold 12.504 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
36-Kr-80

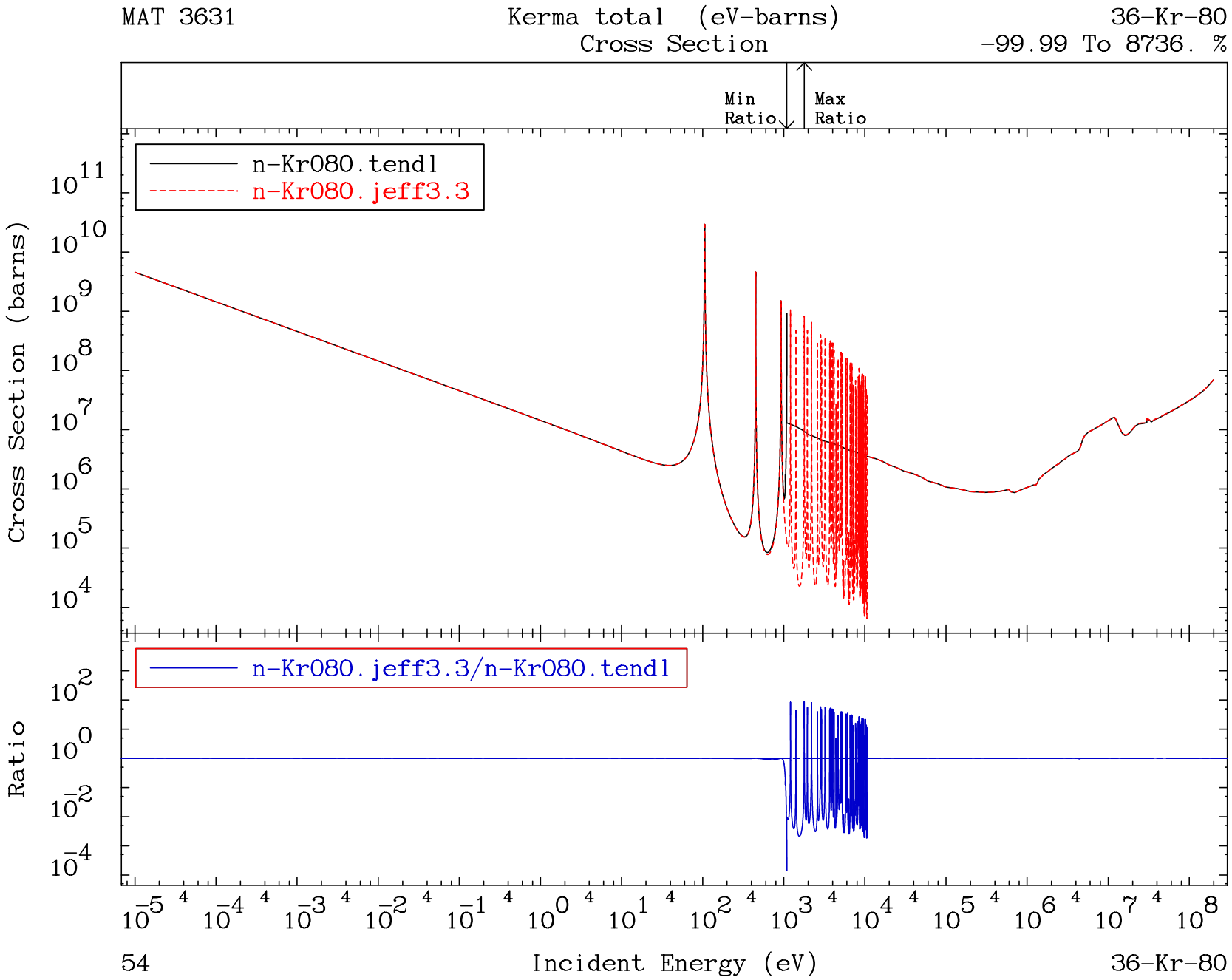

MAT 3631
Hydrogen Production
Cross Section
36-Kr-80
-12.11 To 11.99 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 1.2374 MeV
n-Kr080.jeff3.3 Threshold 1.2374 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
36-Kr-80

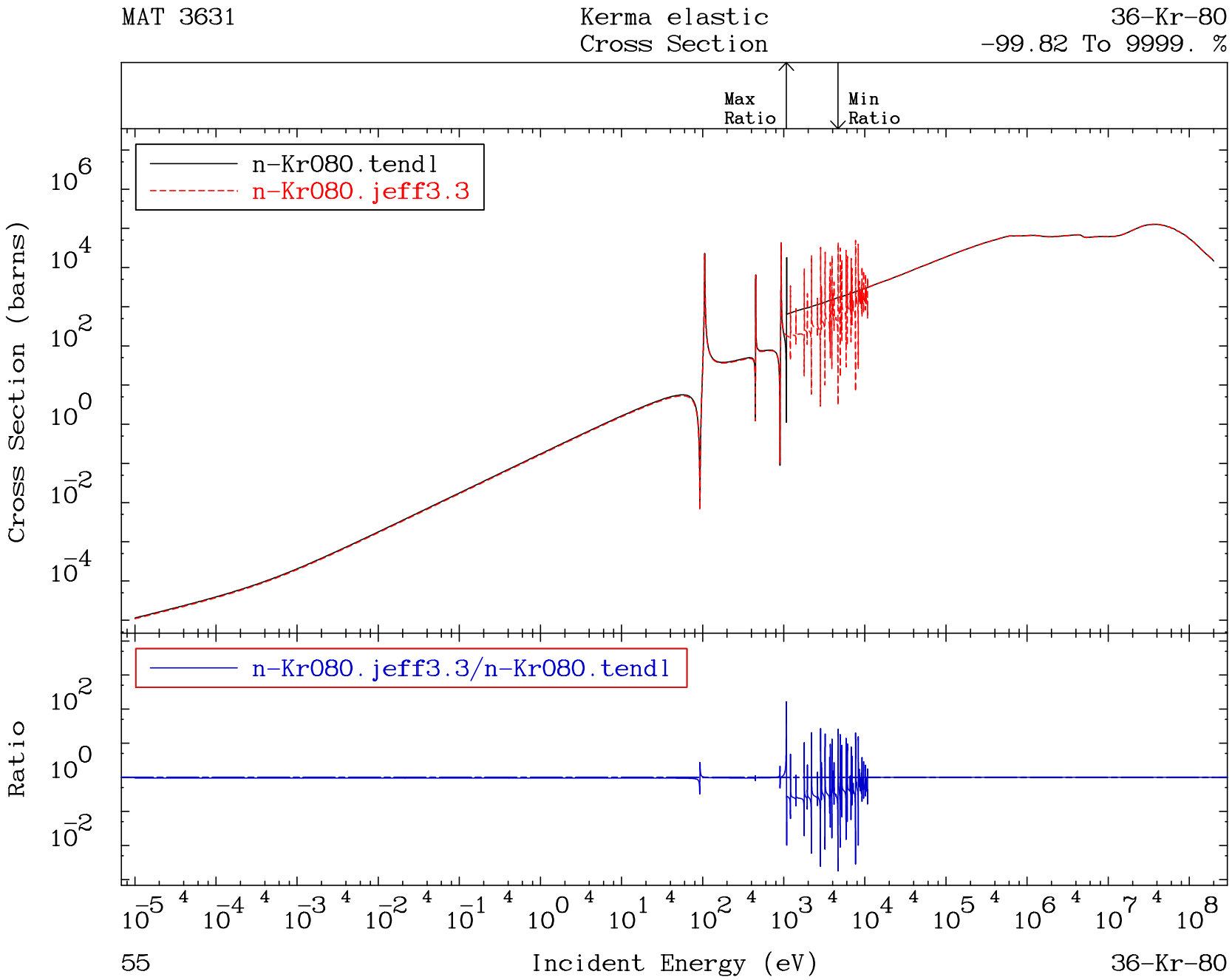

MAT 3631
Deuterium Production
Cross Section
36-Kr-80
-0.085 To 8.306 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 6.8000 MeV
n-Kr080.jeff3.3 Threshold 6.9766 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
36-Kr-80

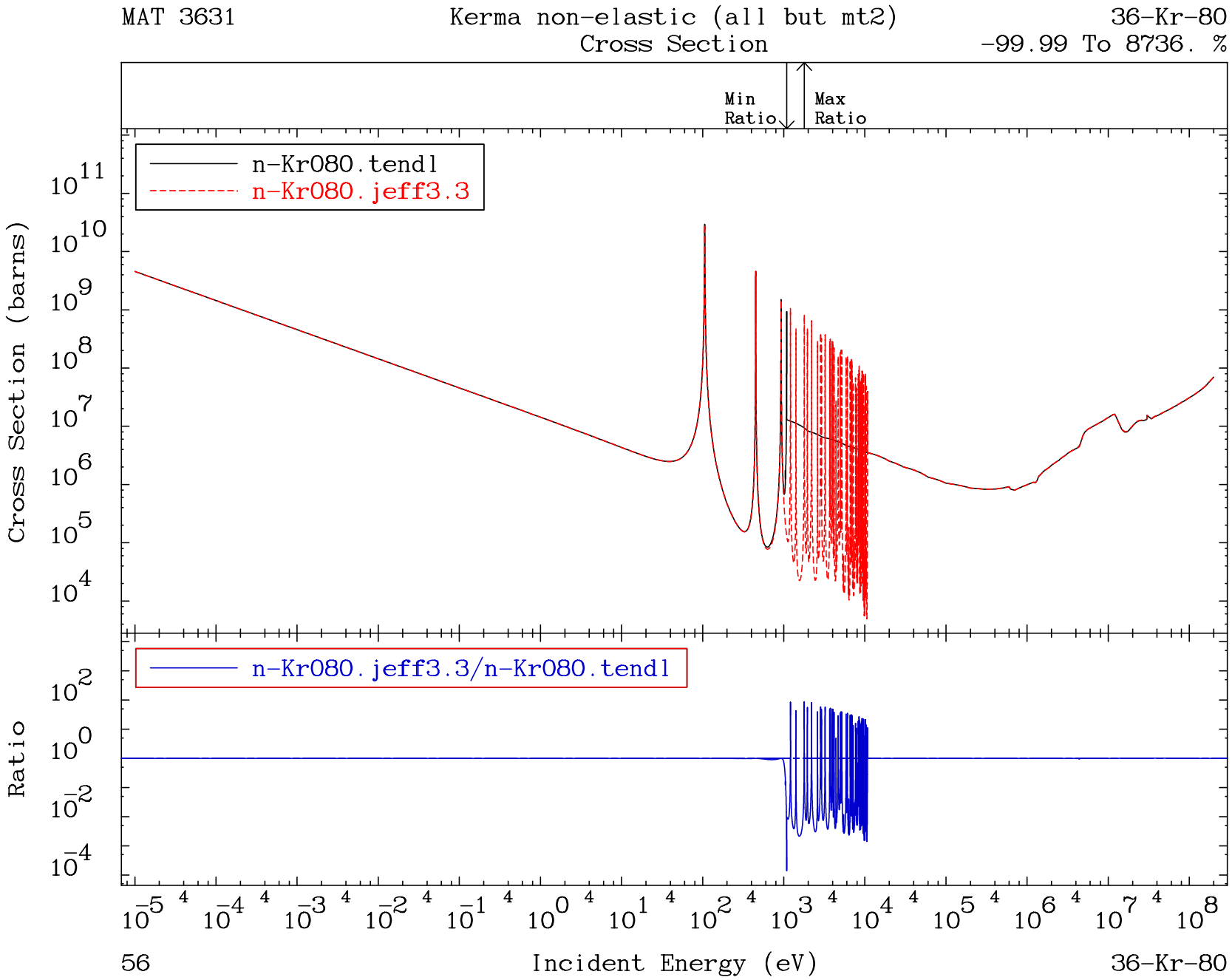

MAT 3631
Tritium Production
Cross Section
36-Kr-80
-0.167 To 4.220 %
Max
Ratio
Min
Ratio
n-Kr080.tendl Threshold 11.463 MeV
n-Kr080.jeff3.3 Threshold 11.463 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
36-Kr-80

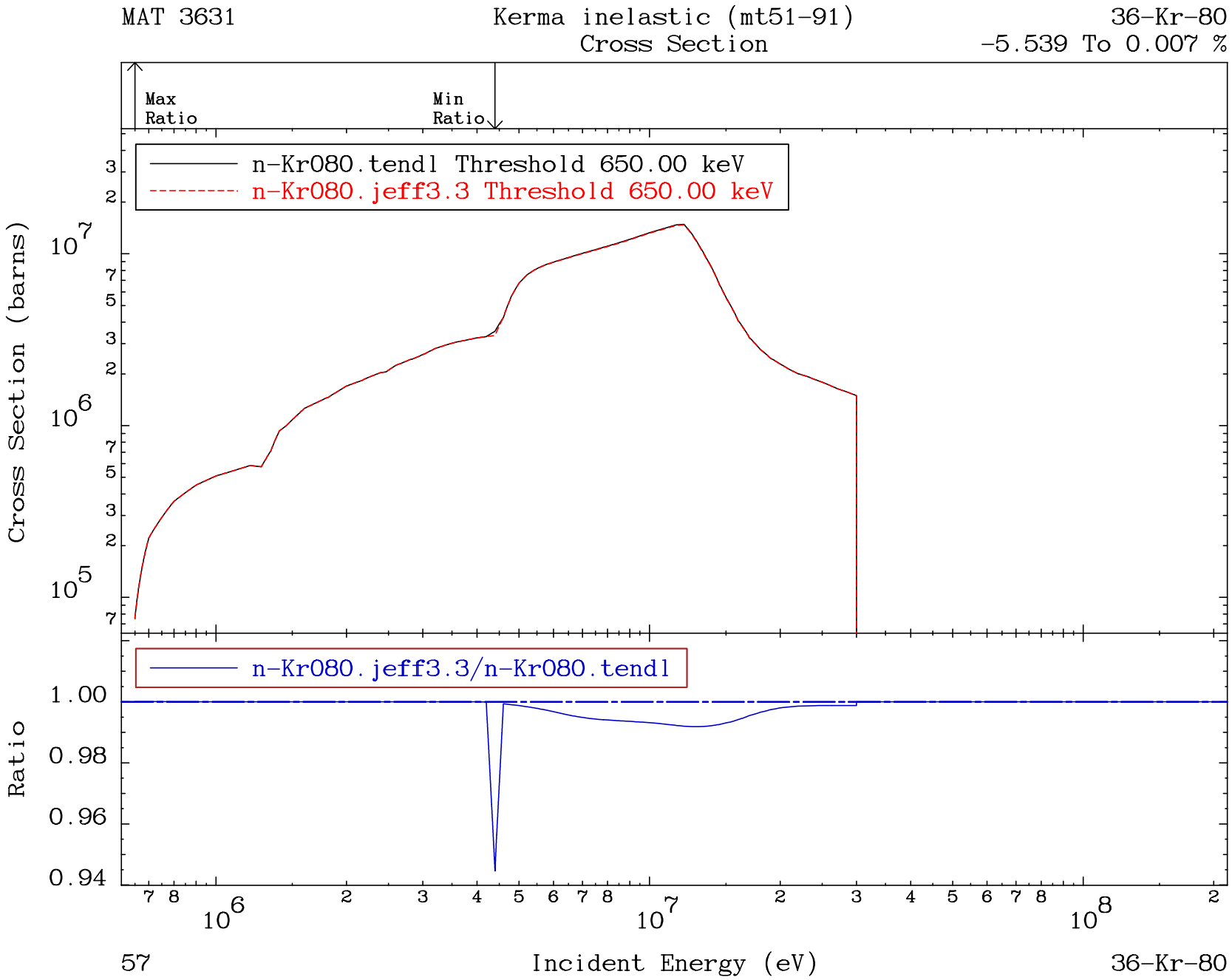

MAT 3631
He-3 Production
Cross Section
36-Kr-80
0.461 To 9.702 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 7.8248 MeV
n-Kr080.jeff3.3 Threshold 7.8248 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
36-Kr-80

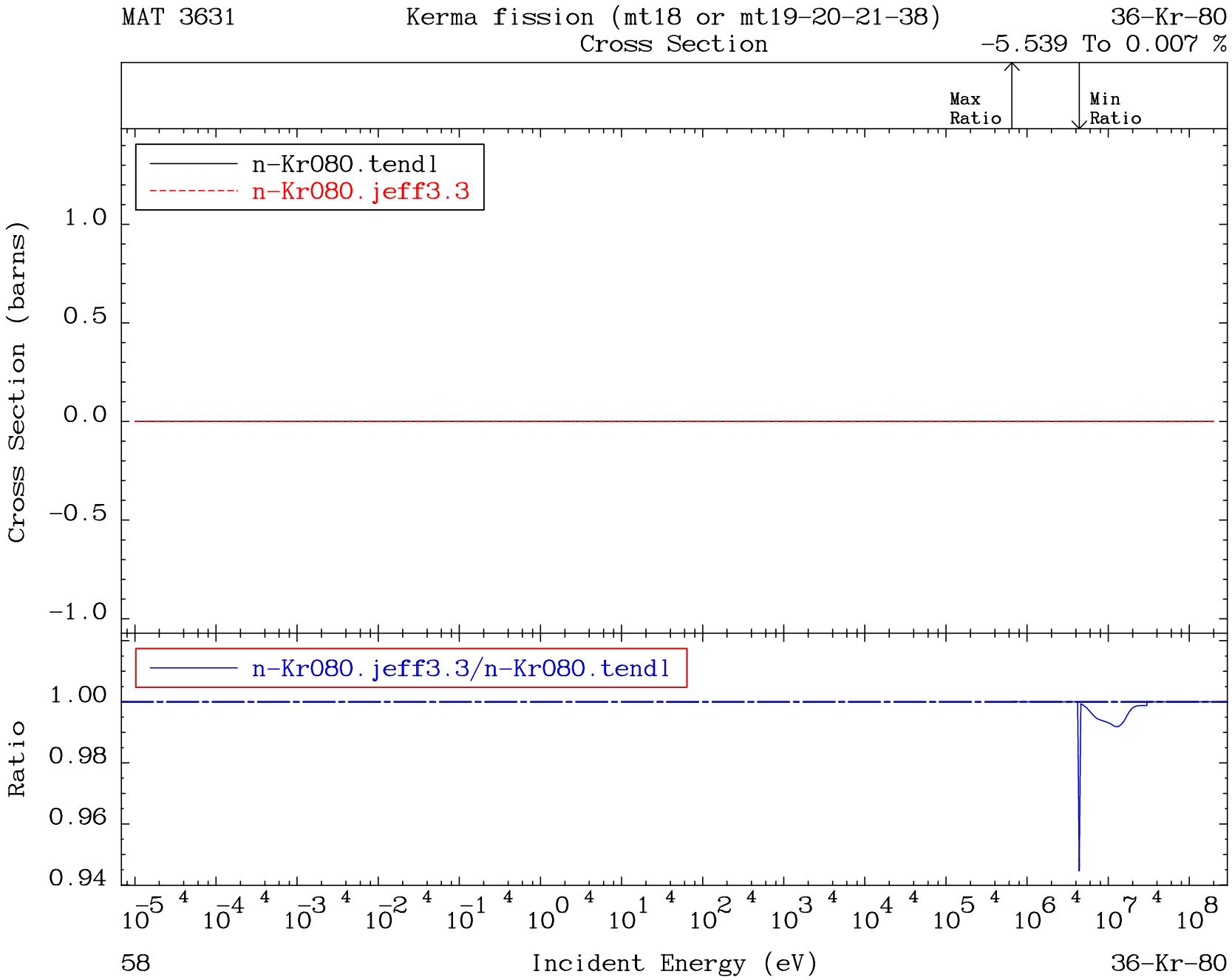

MAT 3631
He-4 Production
Cross Section
36-Kr-80
8.799 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
53
36-Kr-80

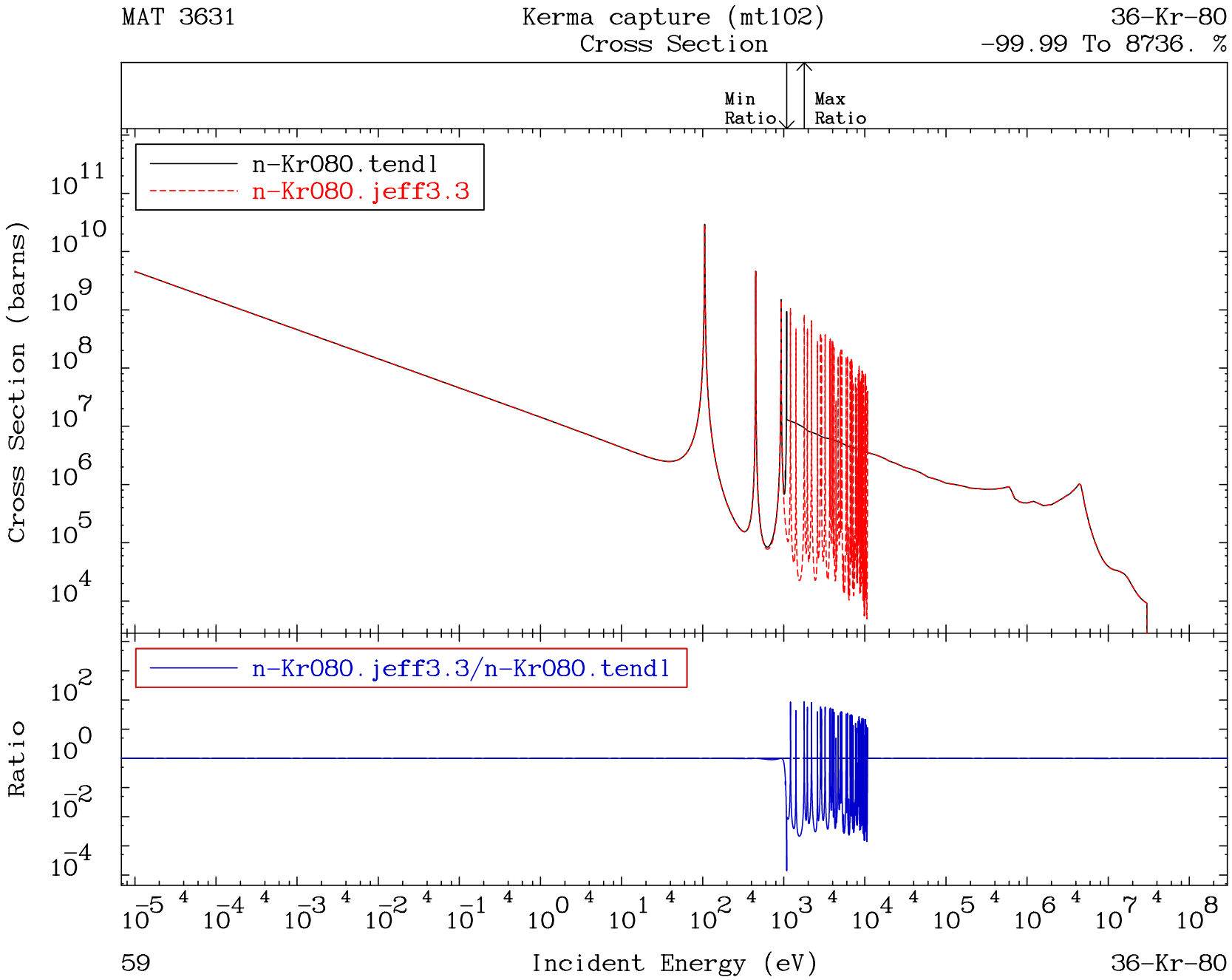

MAT 3631
Kerma total (eV-barns)
Cross Section
36-Kr-80
-99.99 To 8736. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
54
36-Kr-80

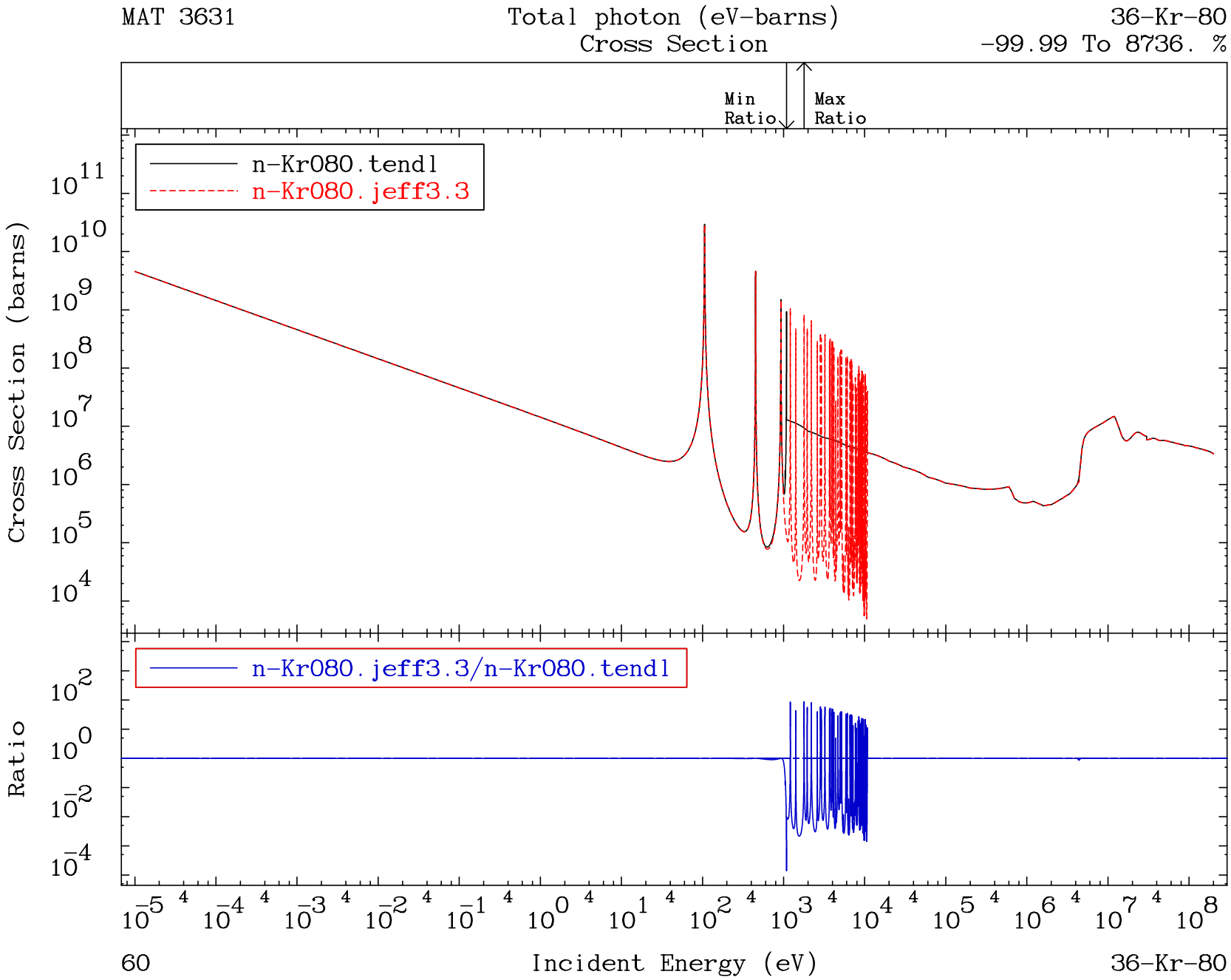

MAT 3631
Kerma elastic
Cross Section
36-Kr-80
-99.82 To 9999. %
Max
Ratio
Min
Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
Ratio
n-Kr080.jeff3.3/n-Kr080.tendl
Incident Energy (eV)
55
36-Kr-80

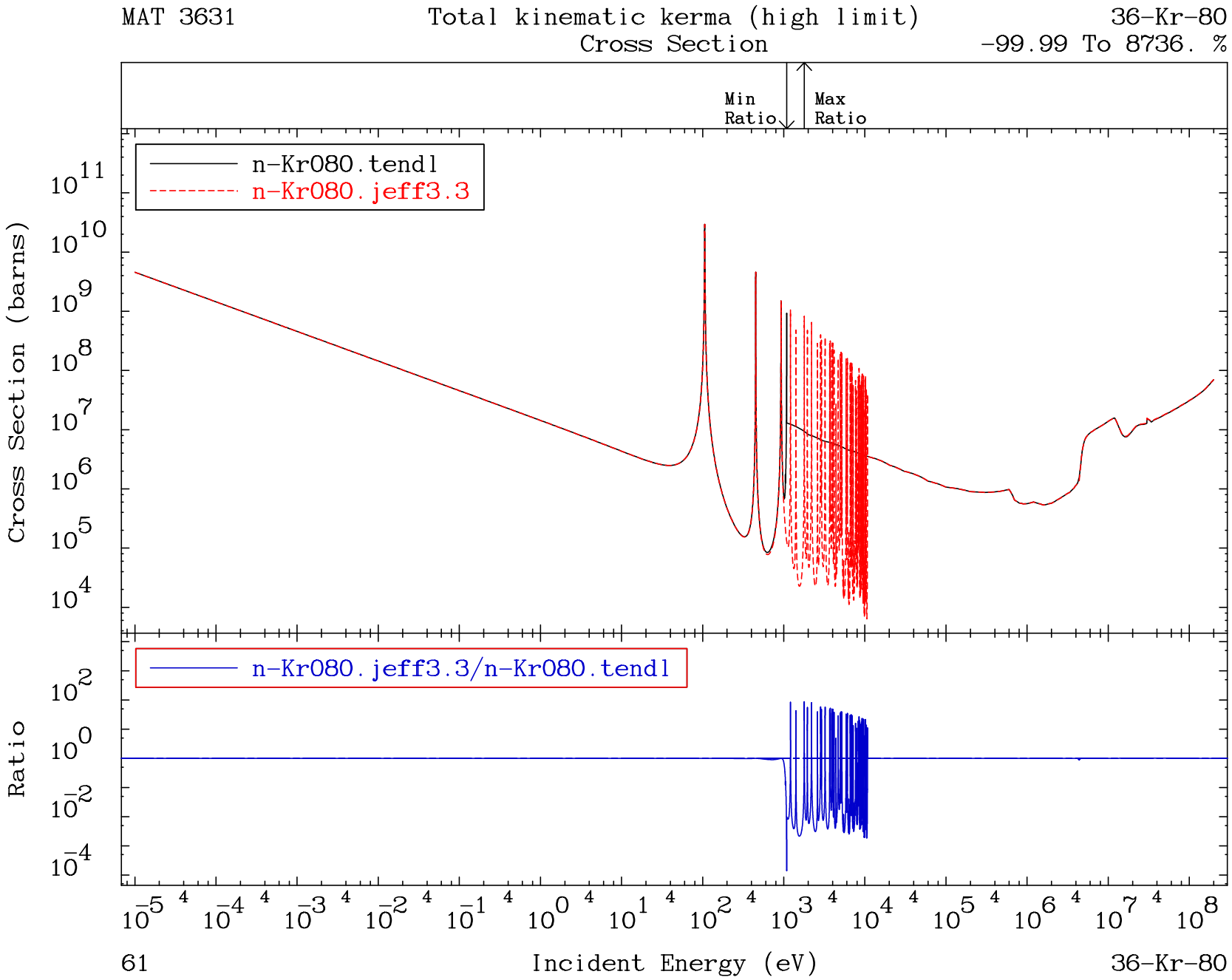

MAT 3631
Kerma non-elastic (all but mt2)
Cross Section
36-Kr-80
-99.99 To 8736. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
56
36-Kr-80

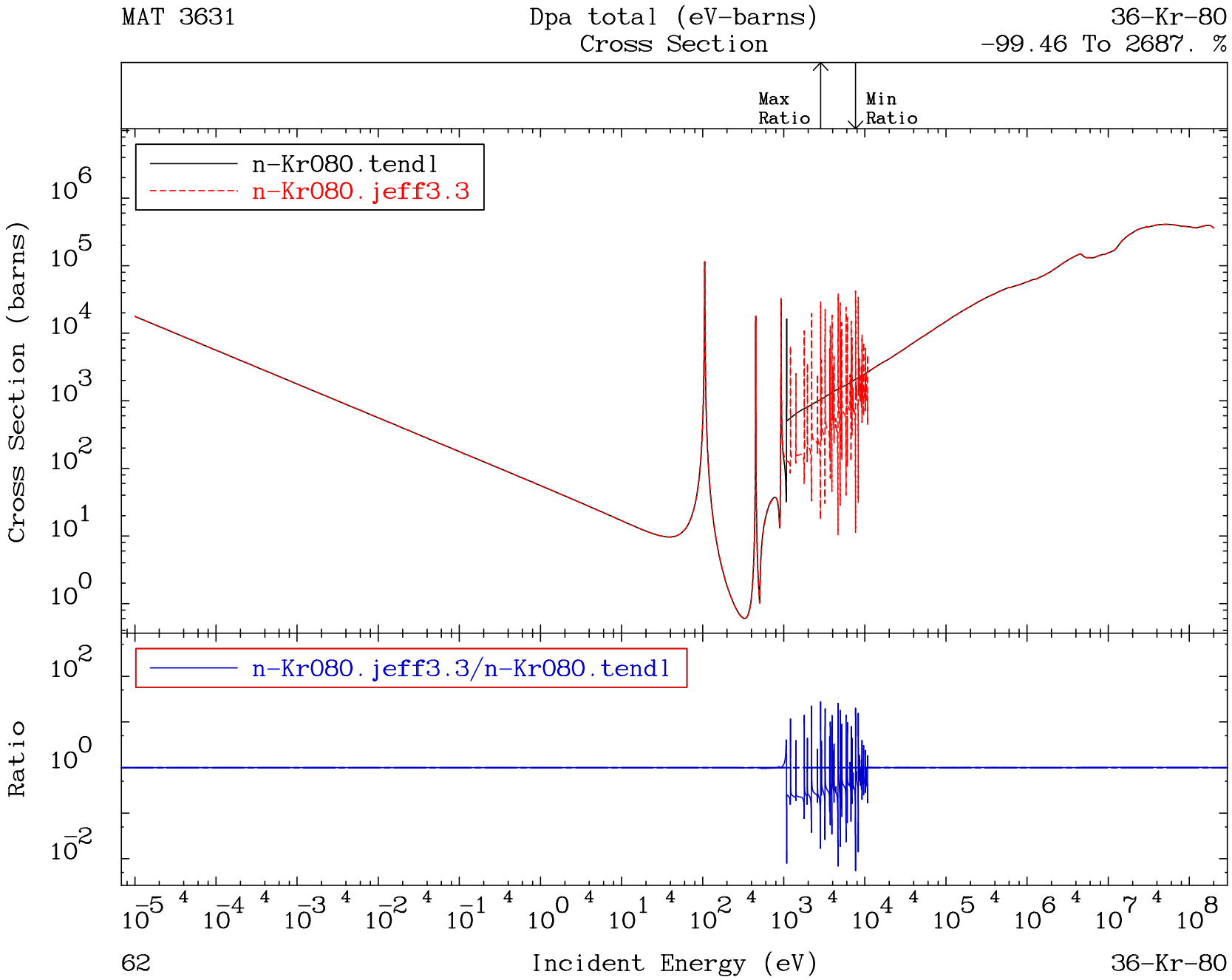

MAT 3631
Kerma inelastic (mt51-91)
Cross Section
36-Kr-80
-5.539 To 0.007 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 650.00 keV
n-Kr080.jeff3.3 Threshold 650.00 keV
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.98
0.96
0.94
Incident Energy (eV)
57
36-Kr-80

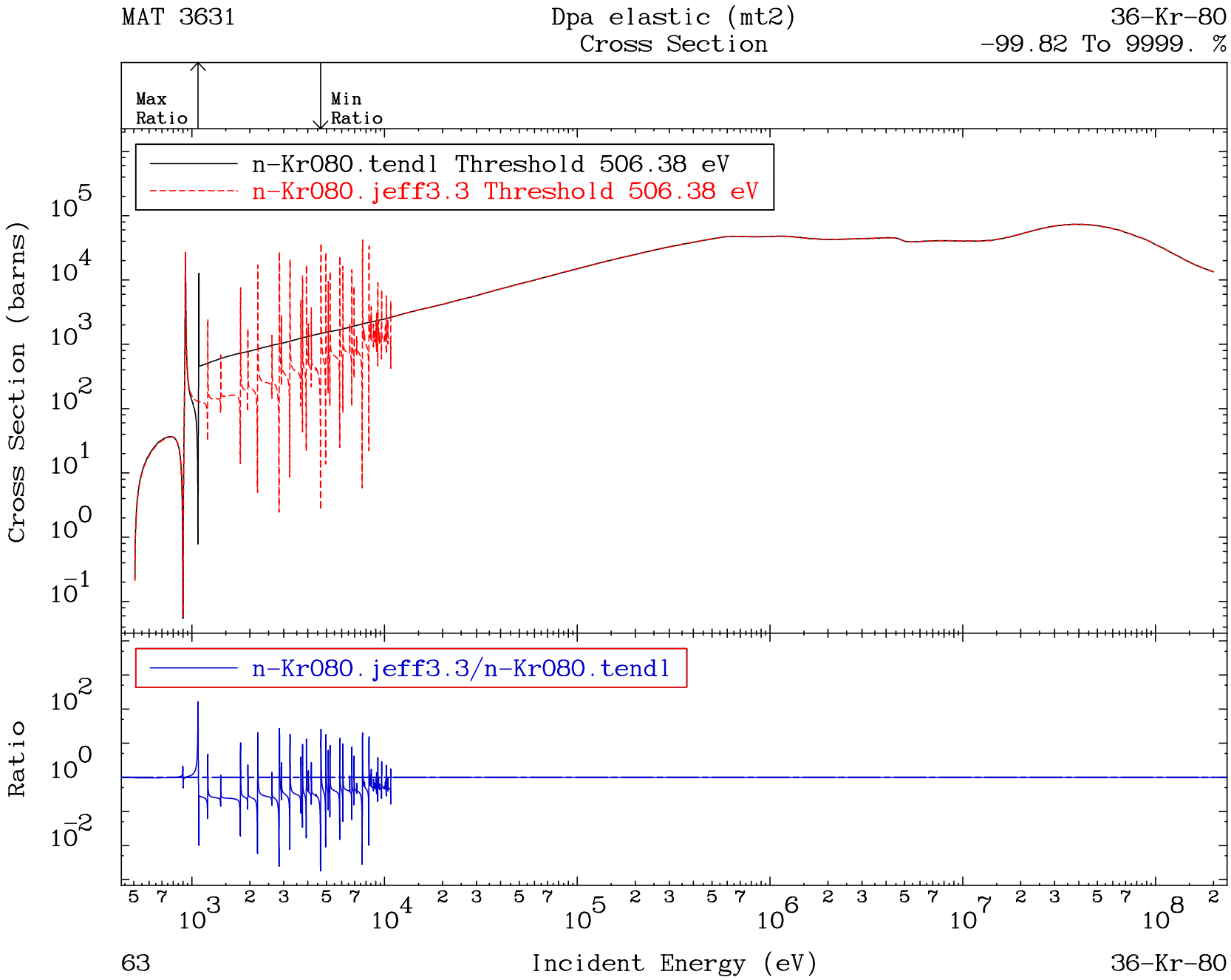

MAT 3631
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
36-Kr-80
-5.539 To 0.007 %
Max Ratio
Min Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.98
0.96
0.94
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
58
Incident Energy (eV)
36-Kr-80

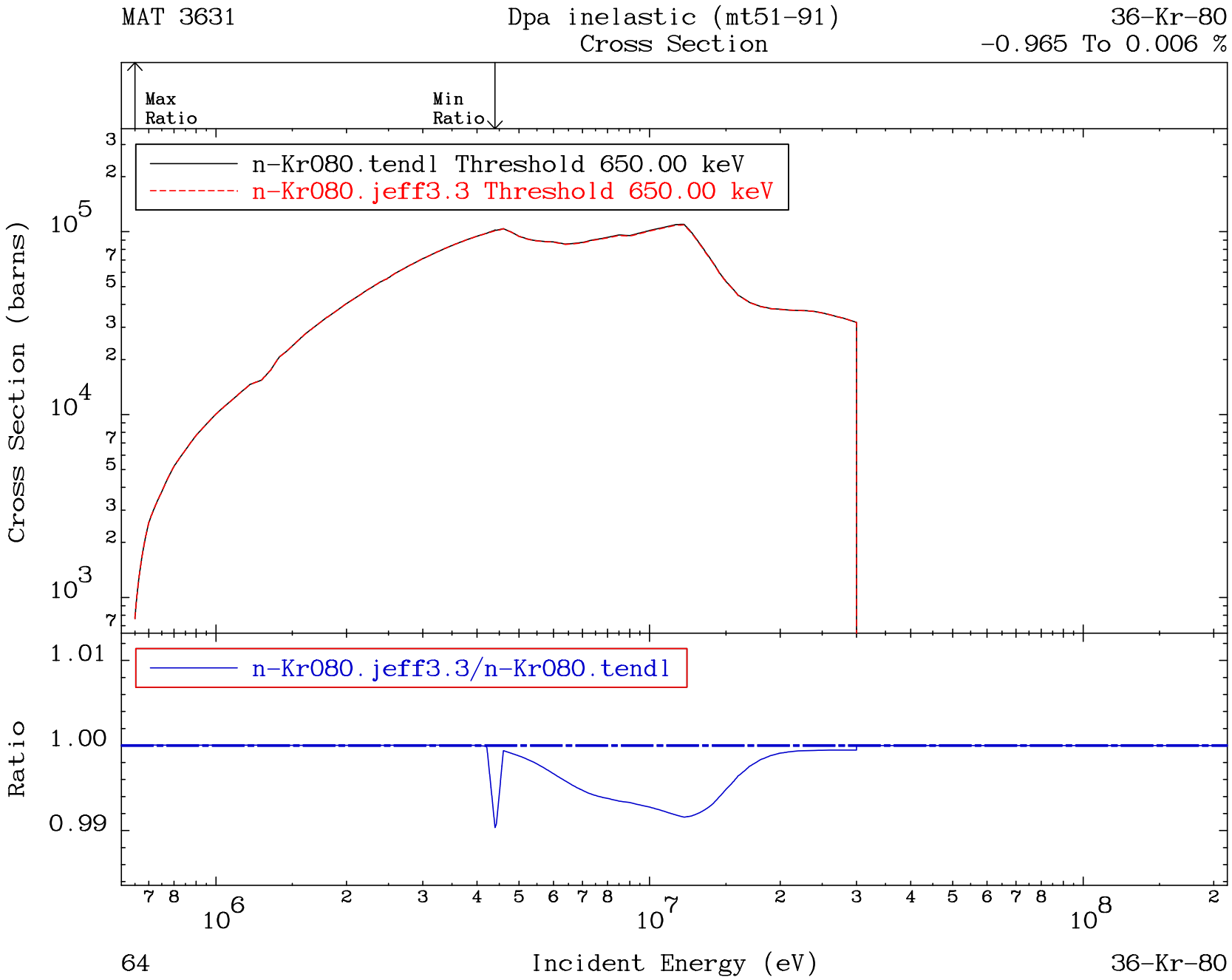

MAT 3631
Kerma capture (mt102)
Cross Section
36-Kr-80
-99.99 To 8736. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
59
36-Kr-80

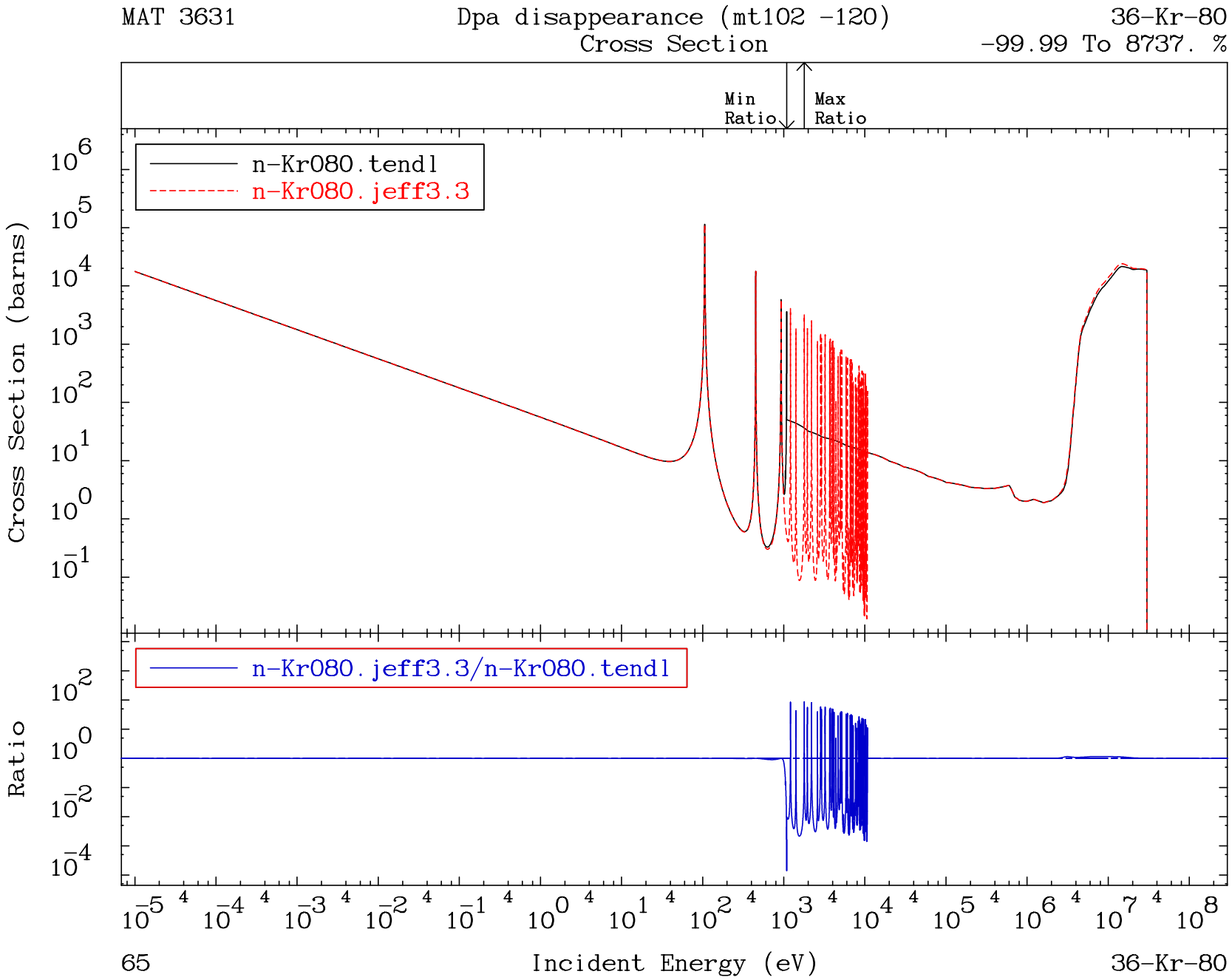

MAT 3631
Total photon (eV-barns)
Cross Section
36-Kr-80
-99.99 To 8736. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
60
36-Kr-80

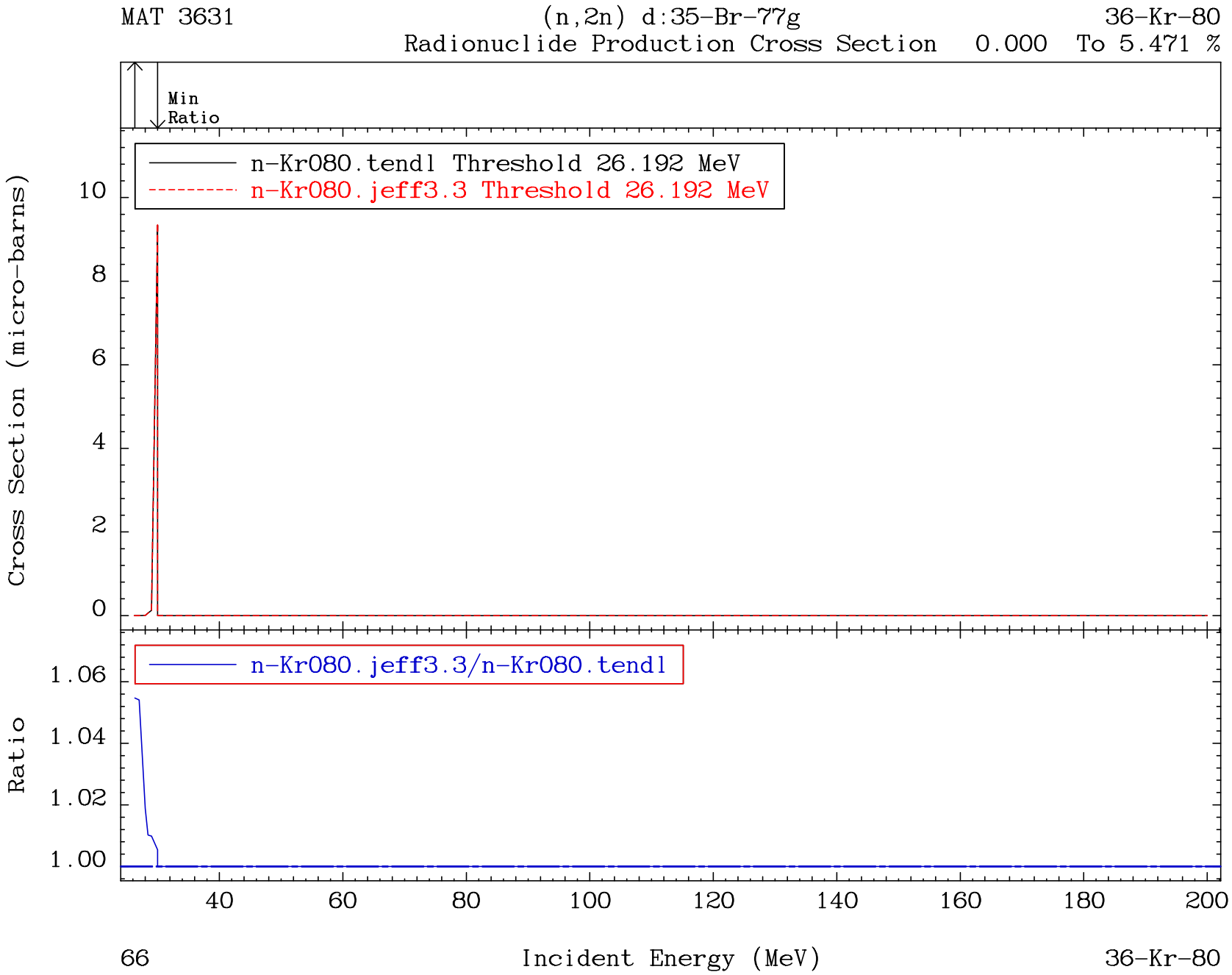

MAT 3631
Total kinematic kerma (high limit)
Cross Section
36-Kr-80
-99.99 To 8736. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
61
36-Kr-80

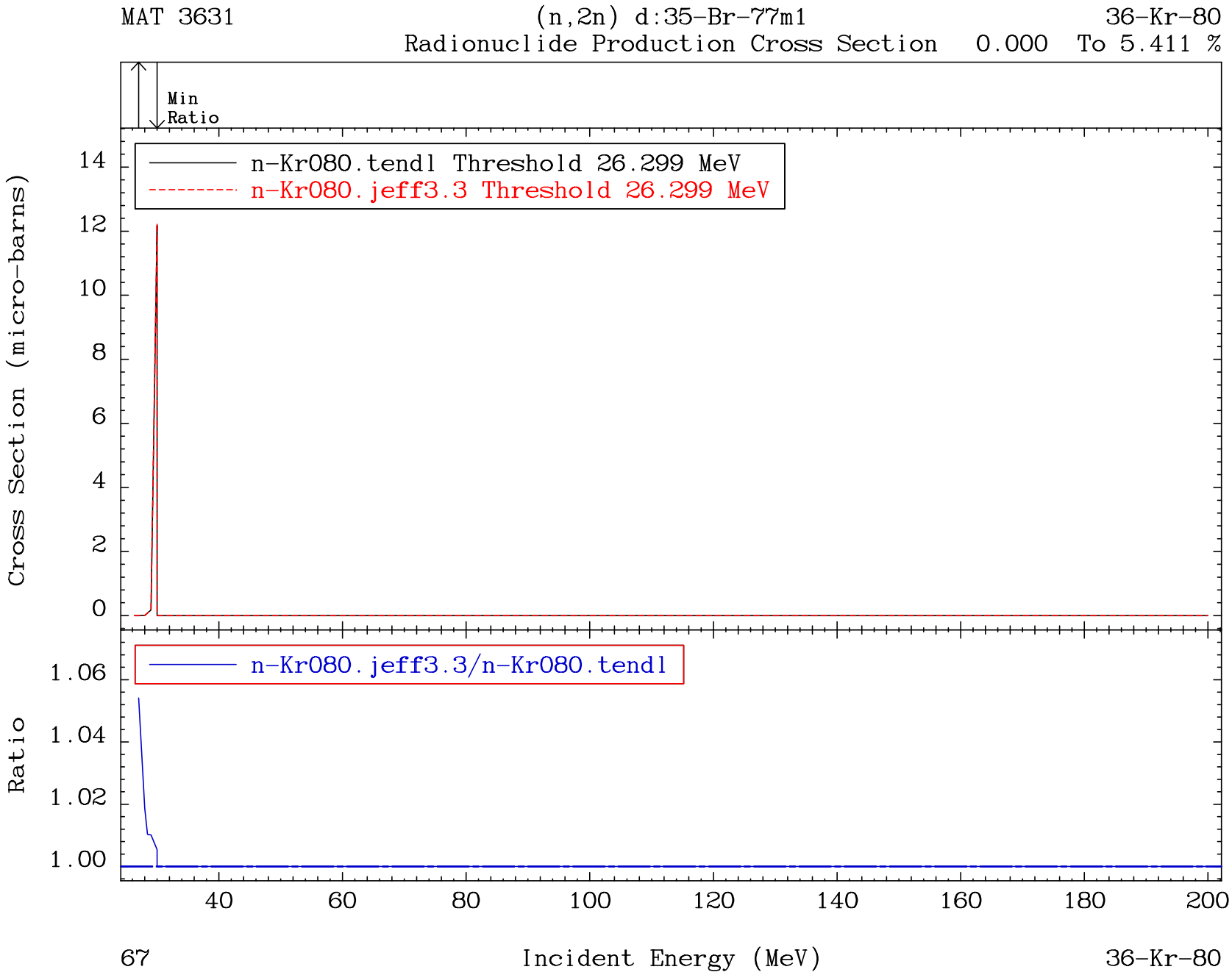

MAT 3631
Dpa total (eV-barns)
Cross Section
36-Kr-80
-99.46 To 2687. %
Max Ratio
Min Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
62
36-Kr-80

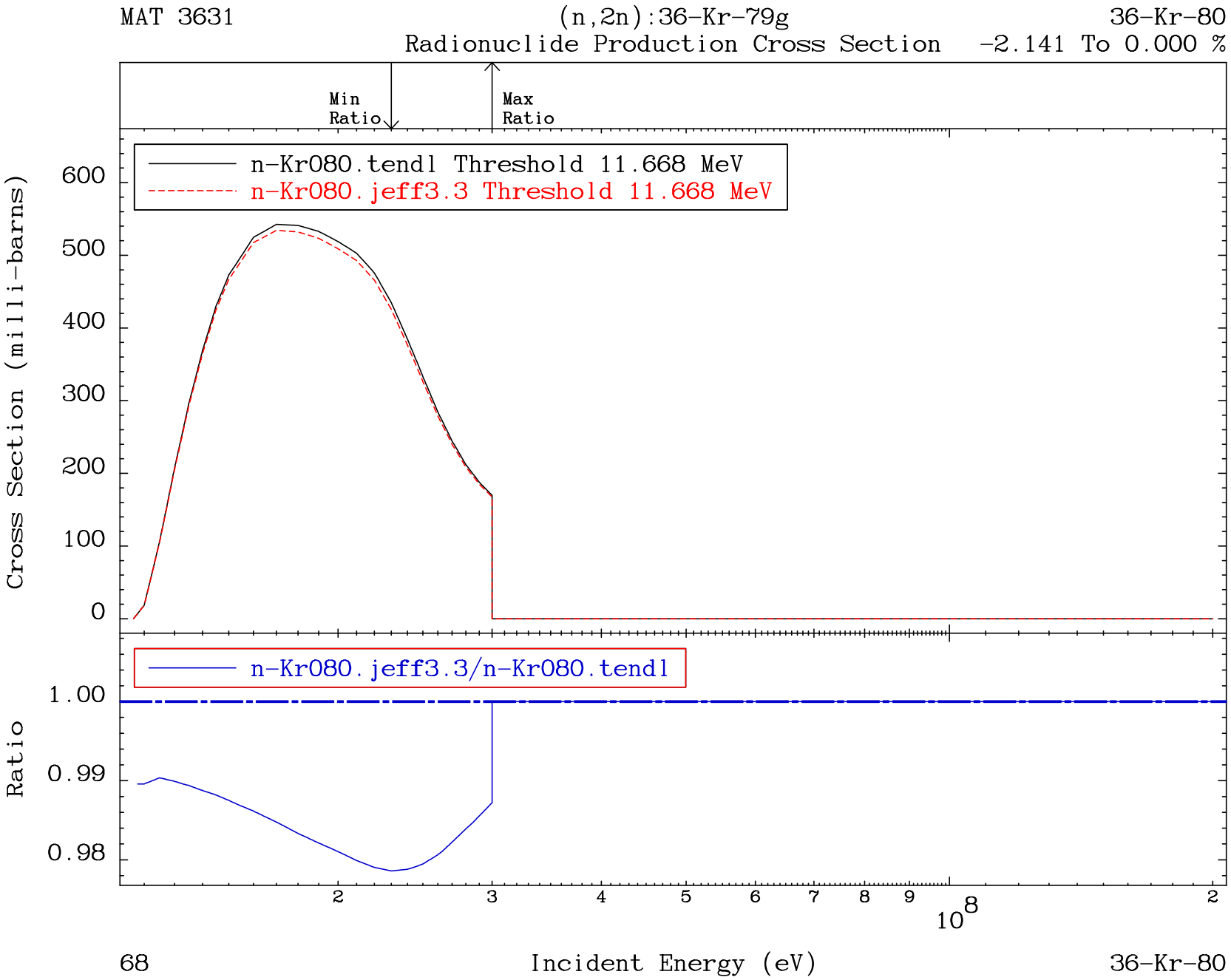

MAT 3631
Dpa elastic (mt2)
Cross Section
36-Kr-80
-99.82 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 506.38 eV
n-Kr080.jeff3.3 Threshold 506.38 eV
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
63
36-Kr-80

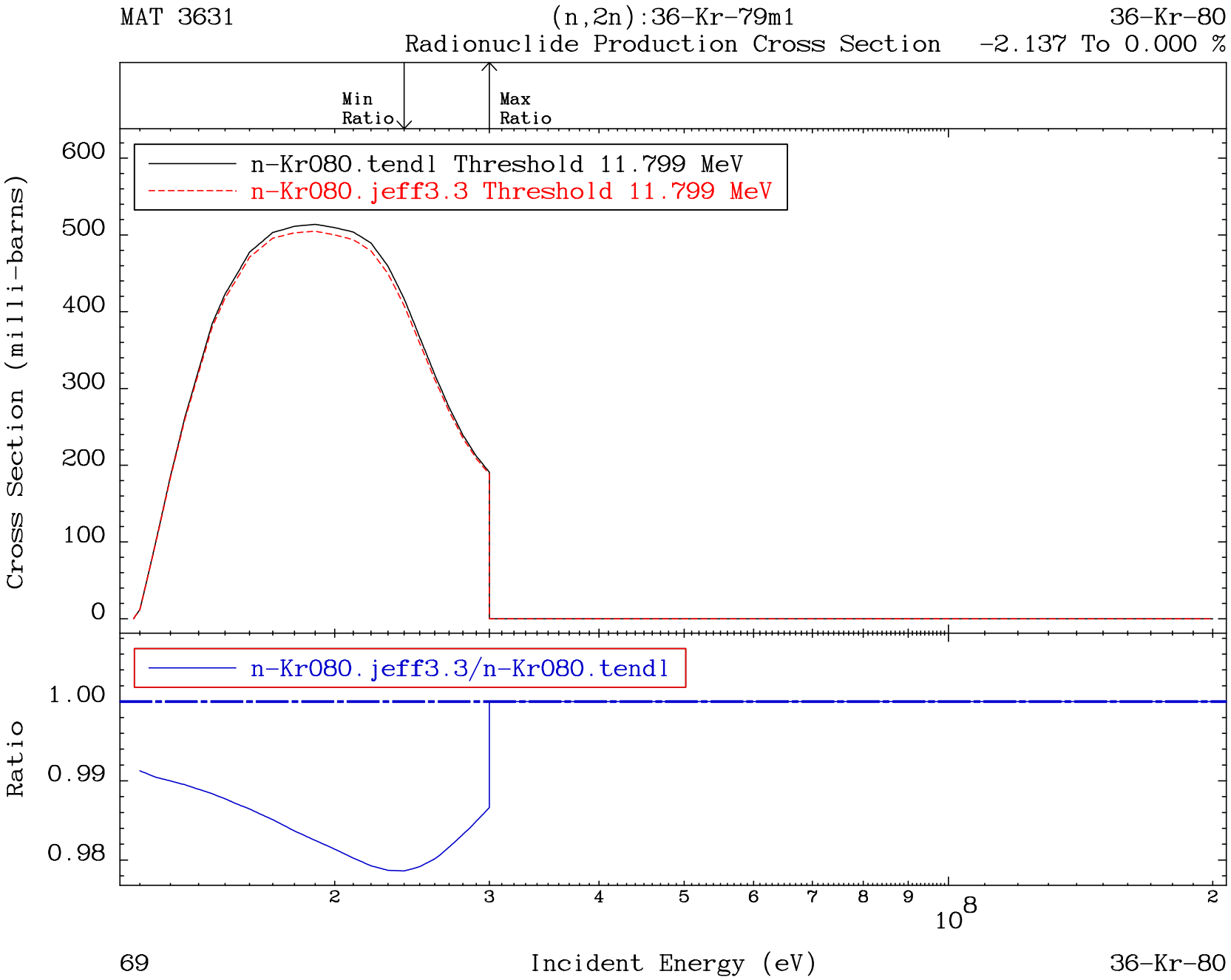

MAT 3631
Dpa inelastic (mt51-91)
Cross Section
36-Kr-80
-0.965 To 0.006 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 650.00 keV
n-Kr080.jeff3.3 Threshold 650.00 keV
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
64
36-Kr-80

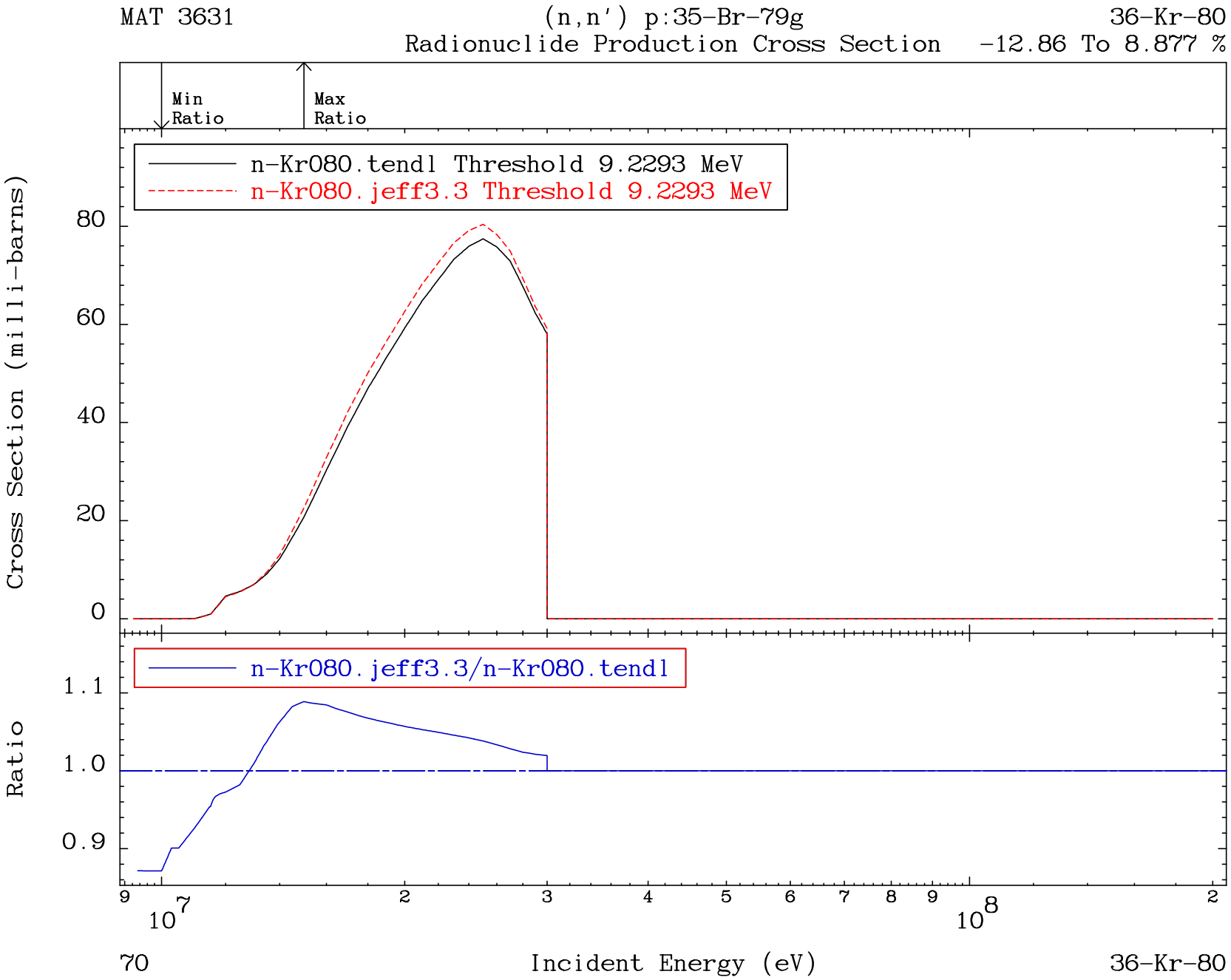

MAT 3631
Dpa disappearance (mt102 -120)
Cross Section
36-Kr-80
-99.99 To 8737. %
Min Ratio
Max Ratio
n-Kr080.tendl
n-Kr080.jeff3.3
Cross Section (barns)
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
Incident Energy (eV)
65
36-Kr-80

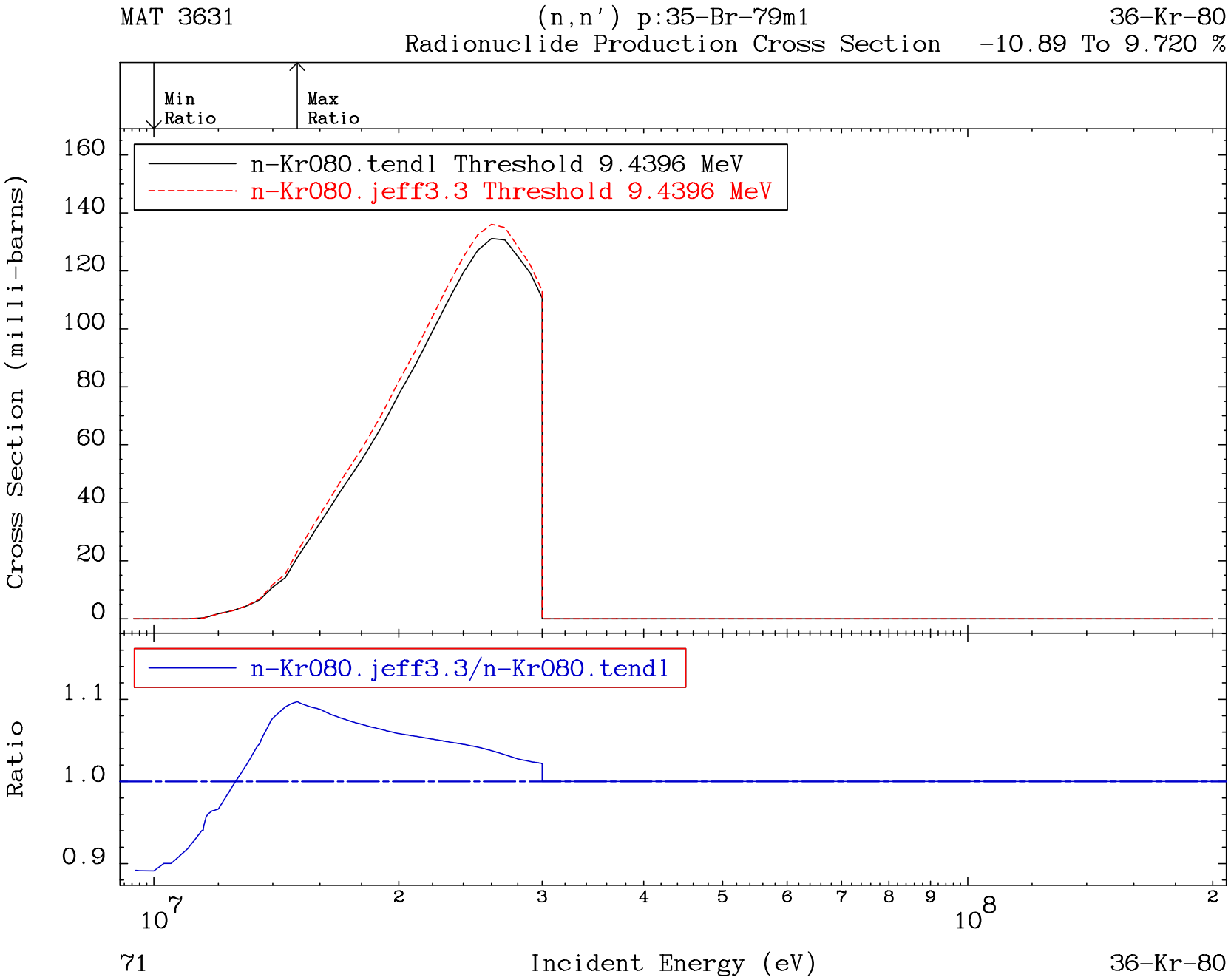

MAT 3631
(n,2n) d:35-Br-77g
36-Kr-80
Radionuclide Production Cross Section 0.000 To 5.471 %
Min Ratio
n-Kr080.tendl Threshold 26.192 MeV
n-Kr080.jeff3.3 Threshold 26.192 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
1.02
1.04
1.06
40
60
80
100
120
140
160
180
200
66
Incident Energy (MeV)
36-Kr-80

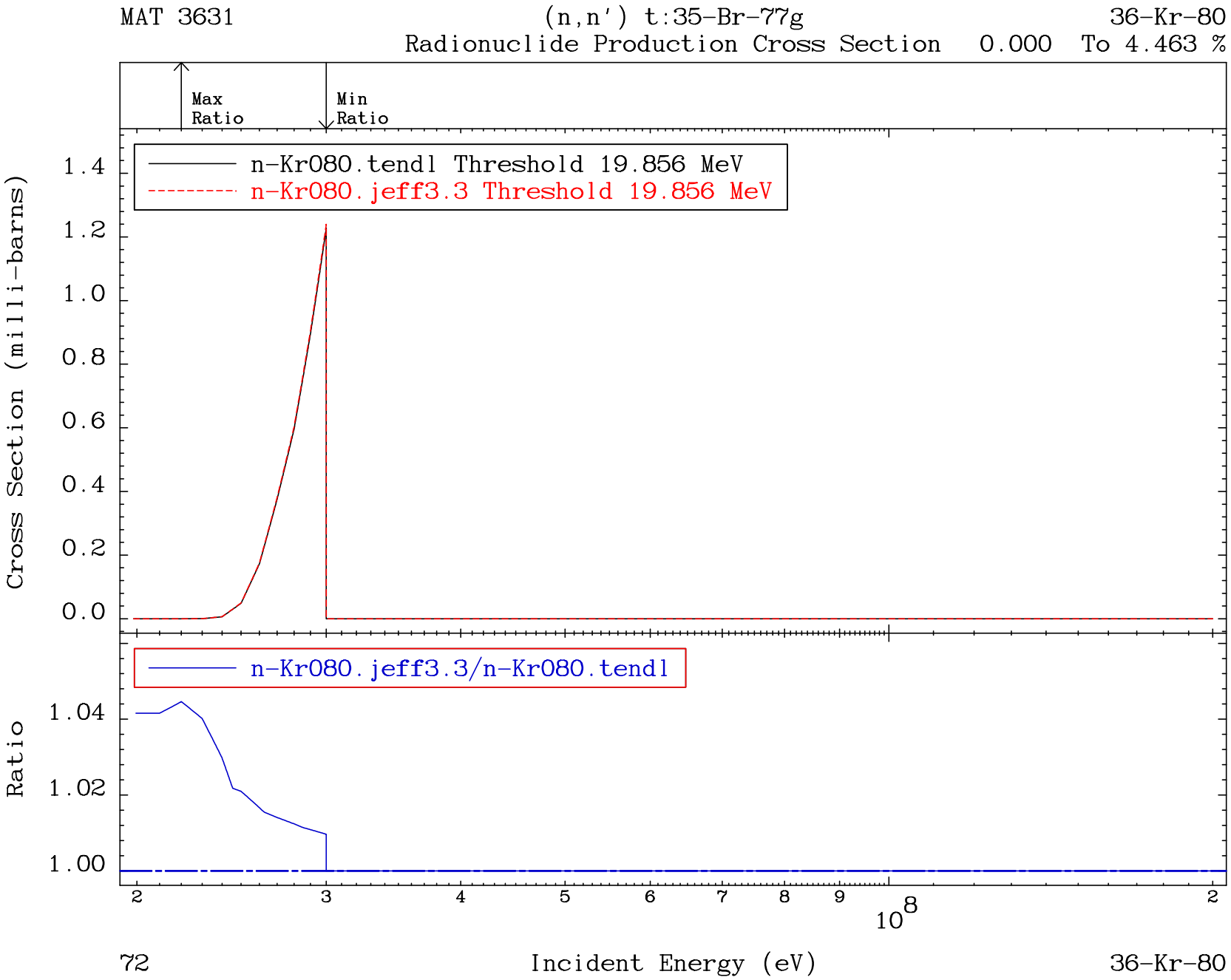

MAT 3631
(n,2n) d:35-Br-77m1
36-Kr-80
Radionuclide Production Cross Section 0.000 To 5.411 %
Min Ratio
n-Kr080.tendl Threshold 26.299 MeV
n-Kr080.jeff3.3 Threshold 26.299 MeV
Cross Section (micro-barns)
14
12
10
8
6
4
2
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.06
1.04
1.02
1.00
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
36-Kr-80

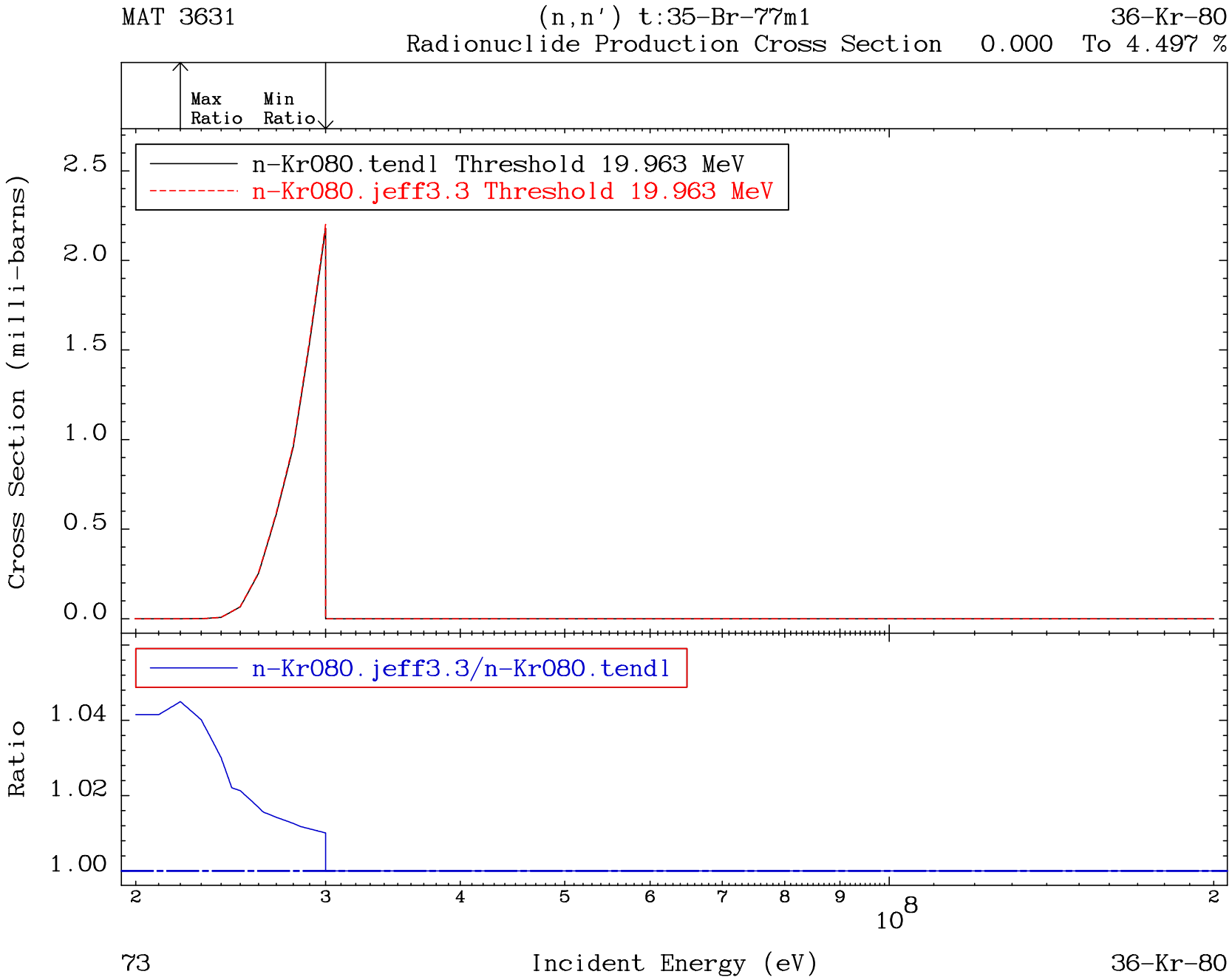

MAT 3631
(n,2n):36-Kr-79g
36-Kr-80
Radionuclide Production Cross Section -2.141 To 0.000 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 11.668 MeV
n-Kr080.jeff3.3 Threshold 11.668 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
36-Kr-80

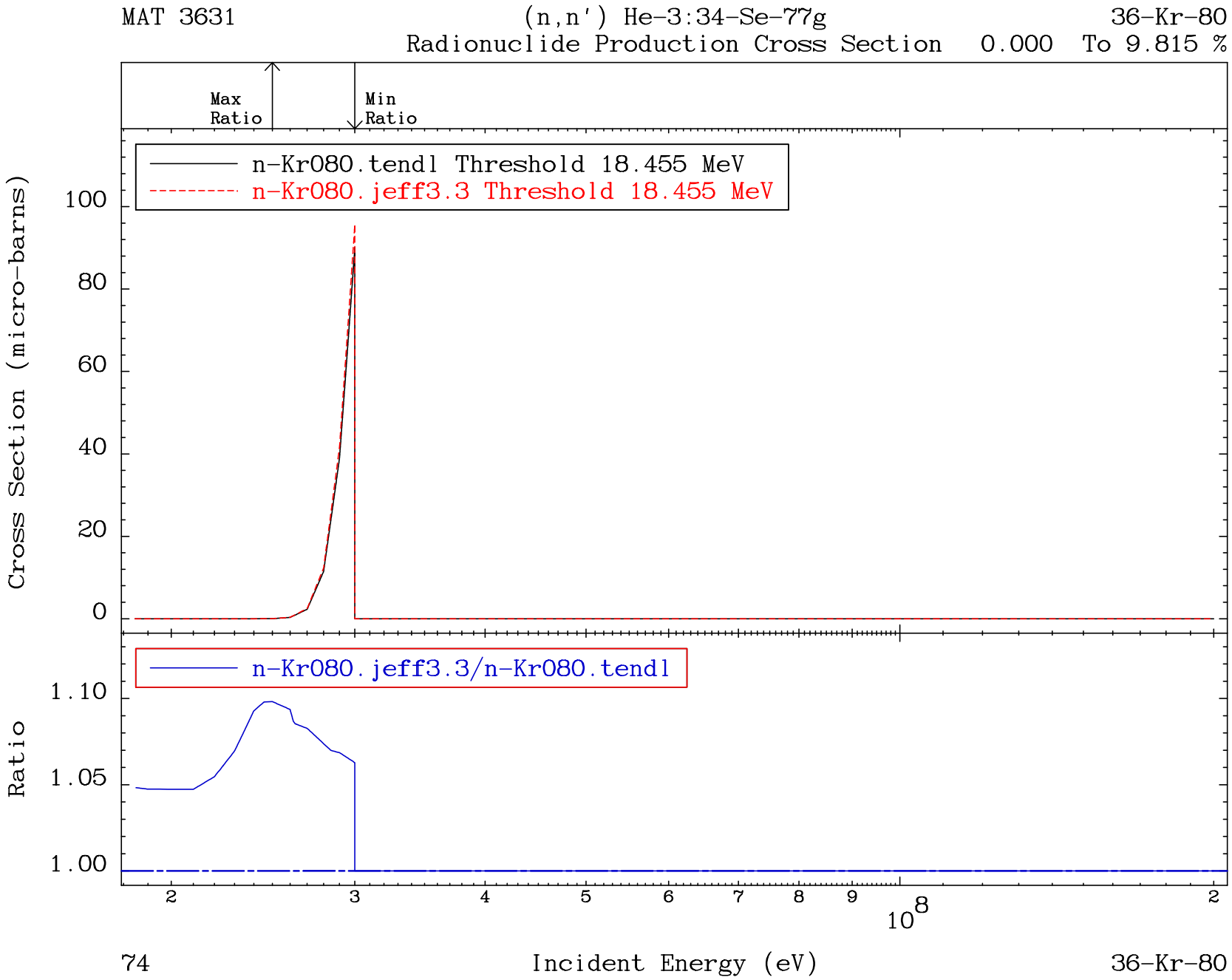

MAT 3631
(n,2n):36-Kr-79m1
36-Kr-80
Radionuclide Production Cross Section -2.137 To 0.000 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 11.799 MeV
n-Kr080.jeff3.3 Threshold 11.799 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
36-Kr-80

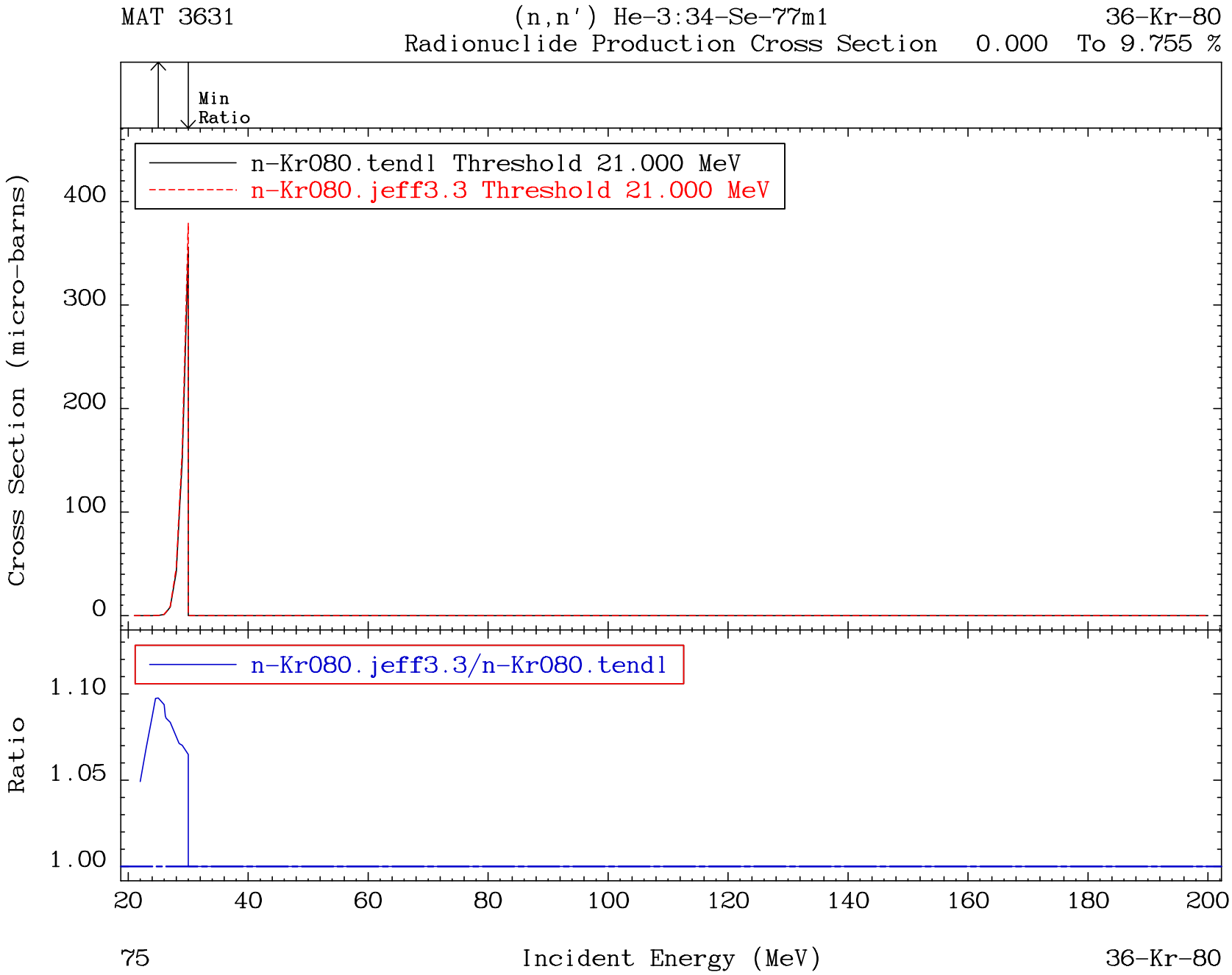

MAT 3631
(n,n') p:35-Br-79g
36-Kr-80
Radionuclide Production Cross Section -12.86 To 8.877 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 9.2293 MeV
n-Kr080.jeff3.3 Threshold 9.2293 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
9
10^7
2
3
4
5
6
7
8
9
10^8
2
70
Incident Energy (eV)
36-Kr-80

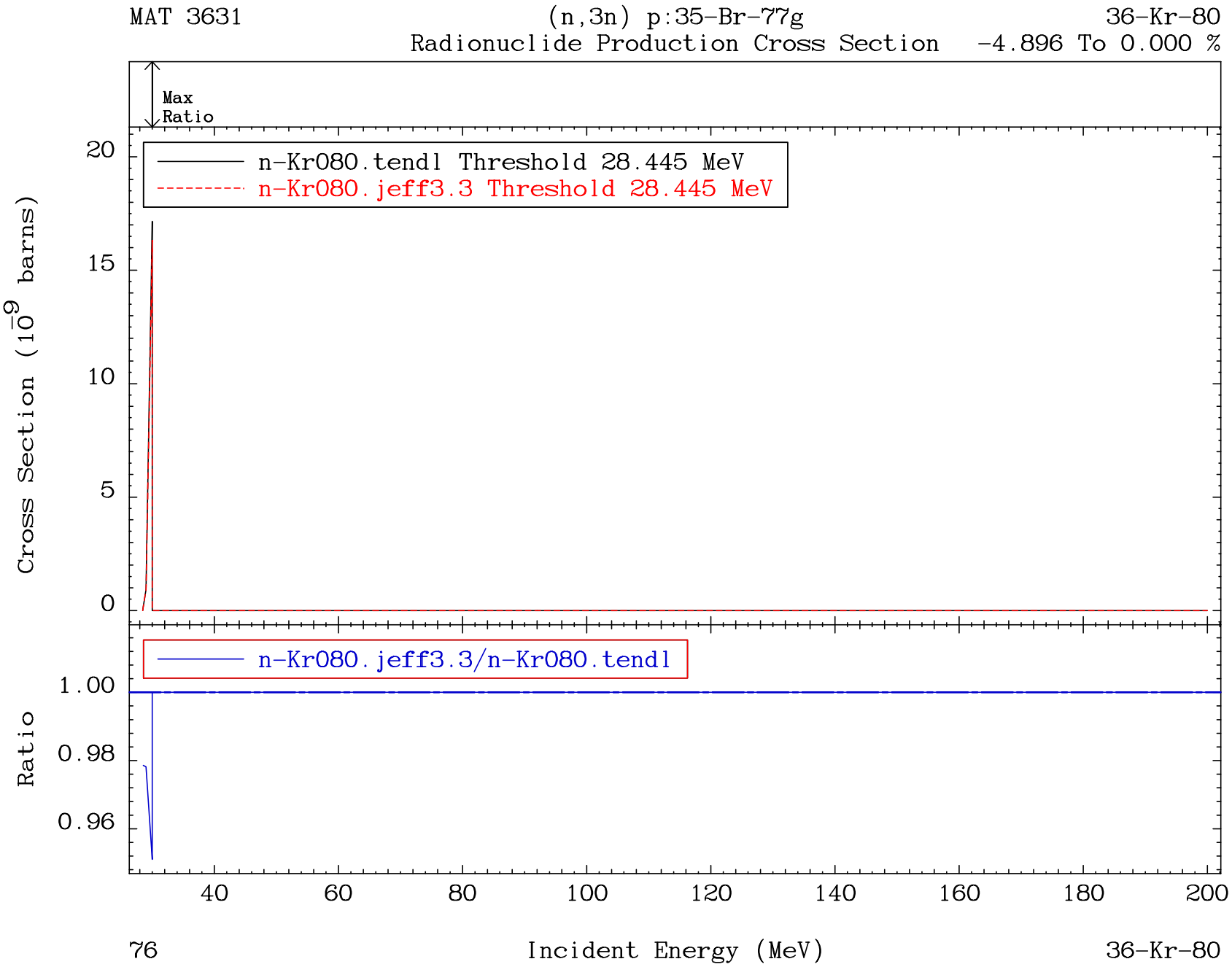

MAT 3631
(n,n') p:35-Br-79m1
36-Kr-80
Radionuclide Production Cross Section -10.89 To 9.720 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 9.4396 MeV
n-Kr080.jeff3.3 Threshold 9.4396 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
10^7
2
3
4
5
6
7
8
9
10^8
2
71
Incident Energy (eV)
36-Kr-80

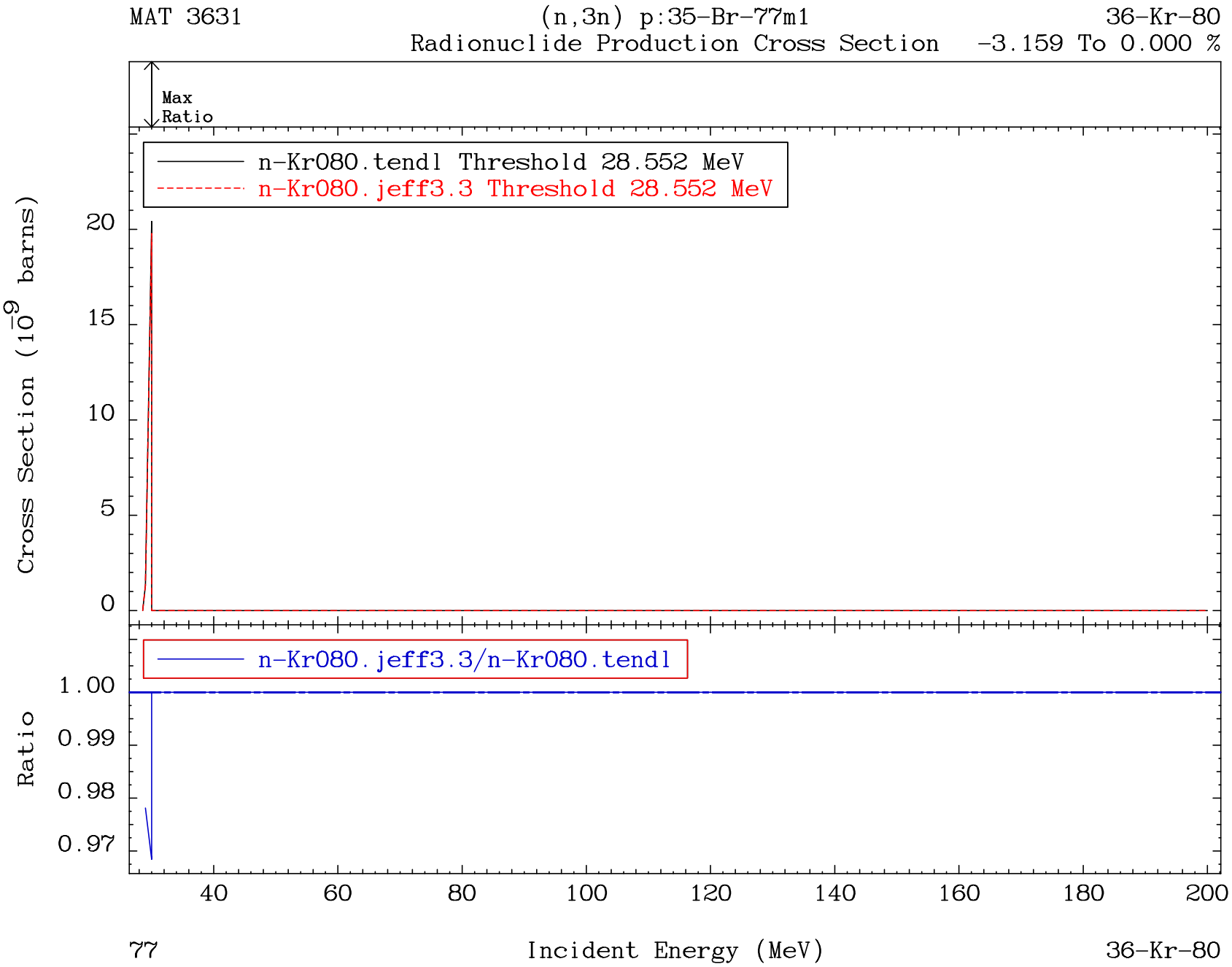

MAT 3631
(n,n') t:35-Br-77g
36-Kr-80
Radionuclide Production Cross Section 0.000 To 4.463 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 19.856 MeV
n-Kr080.jeff3.3 Threshold 19.856 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
36-Kr-80

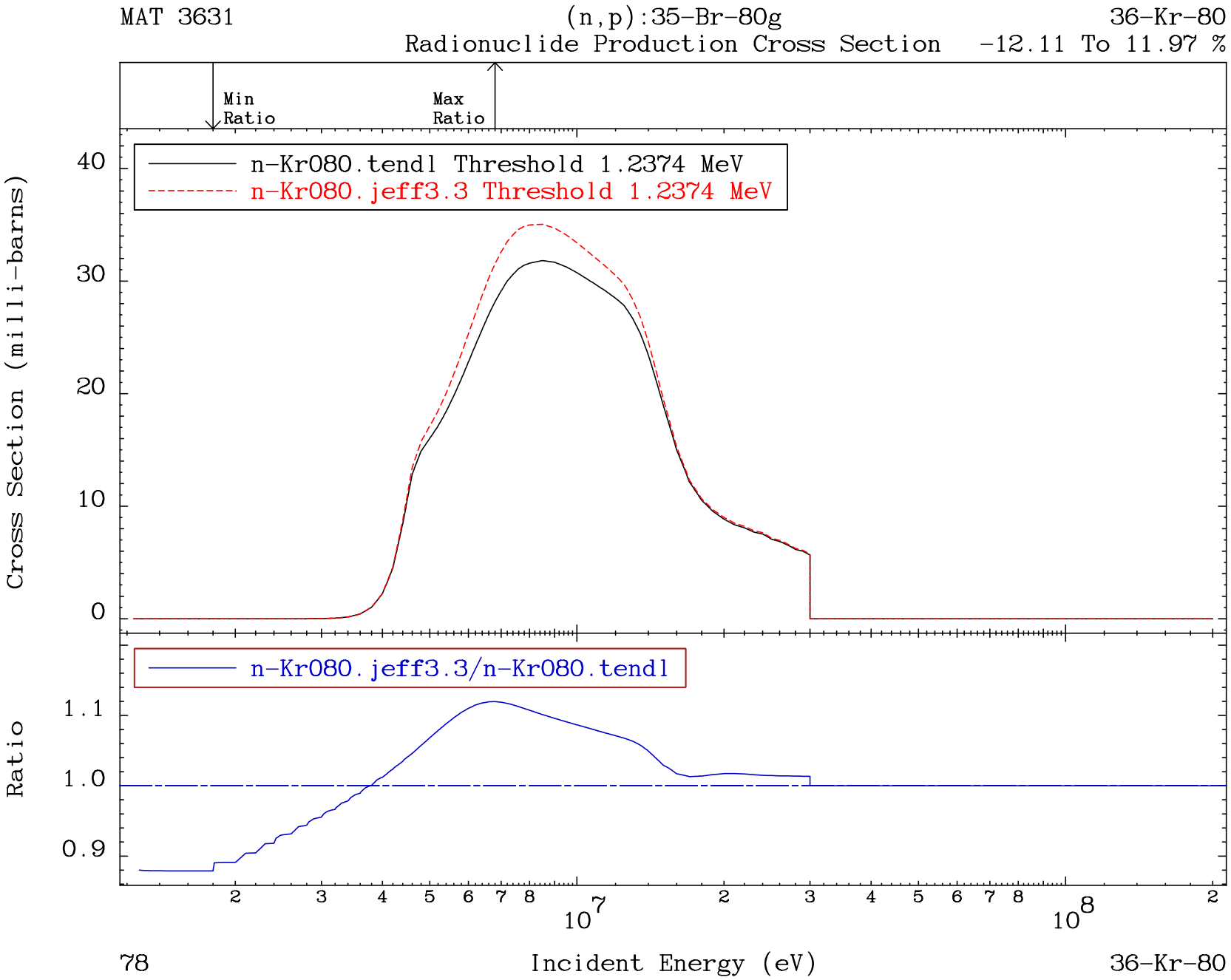

MAT 3631
(n,n') t:35-Br-77m1
36-Kr-80
Radionuclide Production Cross Section 0.000 To 4.497 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 19.963 MeV
n-Kr080.jeff3.3 Threshold 19.963 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
73
Incident Energy (eV)
36-Kr-80

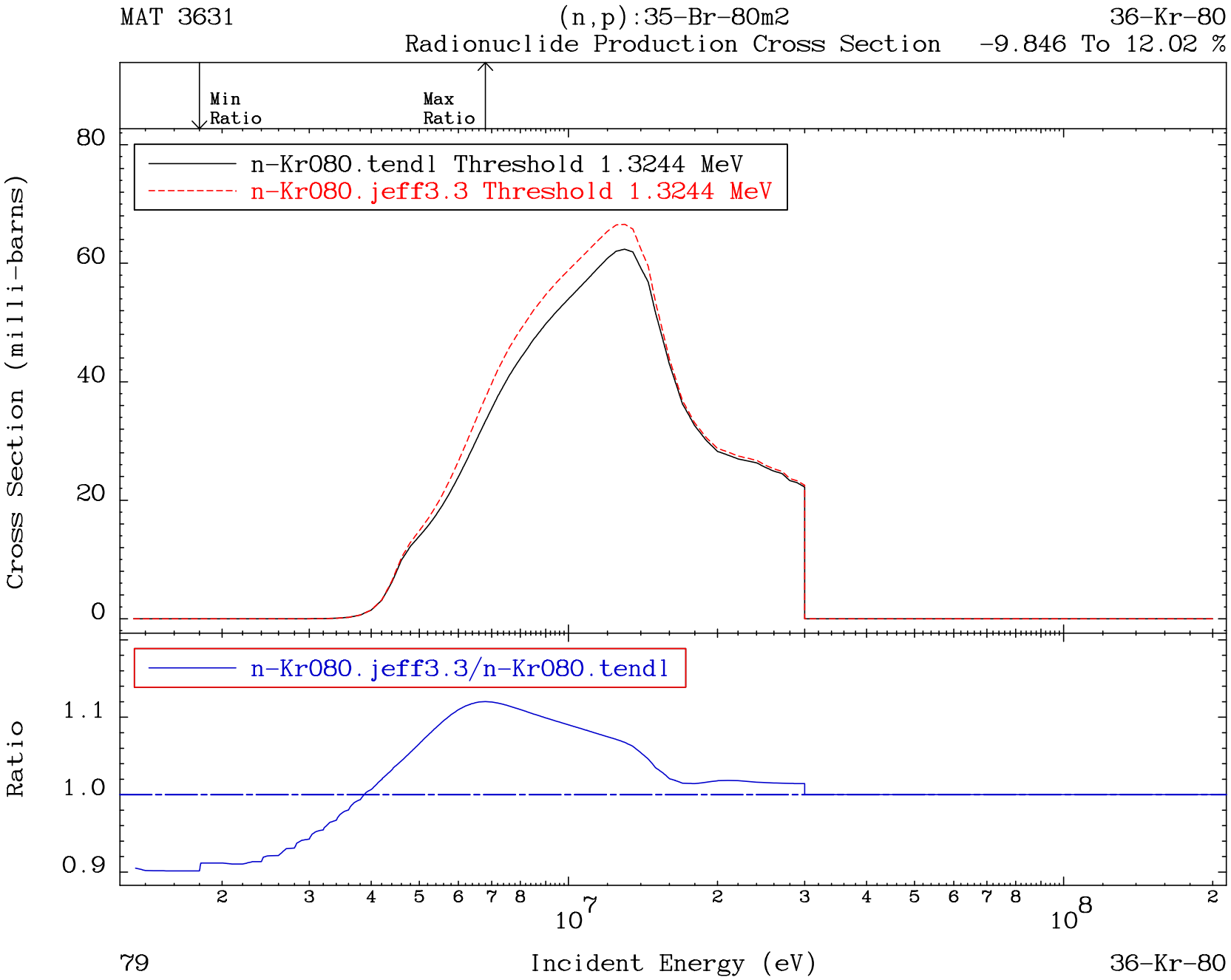

MAT 3631
(n,n') He-3:34-Se-77g
36-Kr-80
Radionuclide Production Cross Section 0.000 To 9.815 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 18.455 MeV
n-Kr080.jeff3.3 Threshold 18.455 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
36-Kr-80

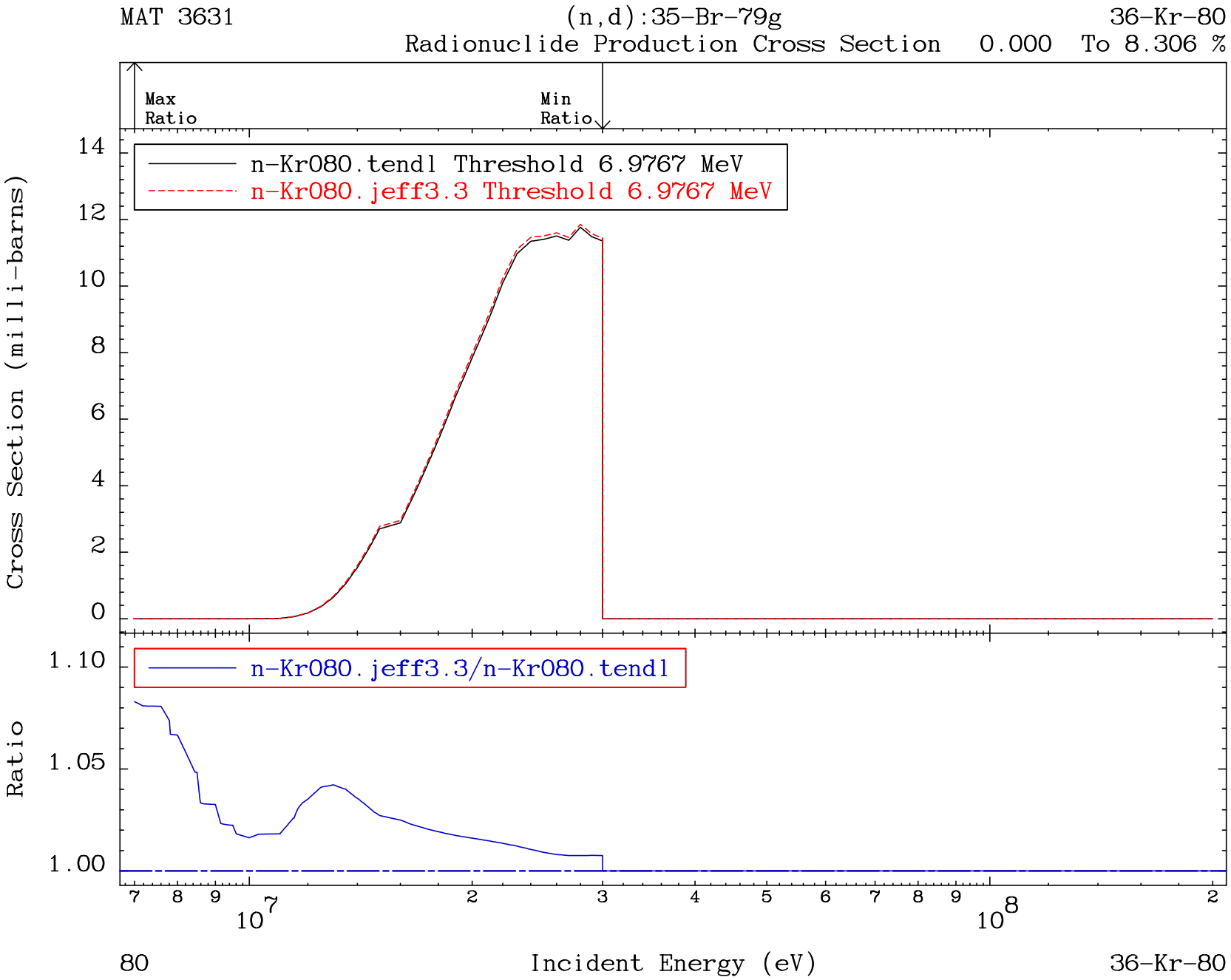

MAT 3631
(n,n') He-3:34-Se-77m1
36-Kr-80
Radionuclide Production Cross Section 0.000 To 9.755 %
Min
Ratio
n-Kr080.tendl Threshold 21.000 MeV
n-Kr080.jeff3.3 Threshold 21.000 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
20
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
36-Kr-80

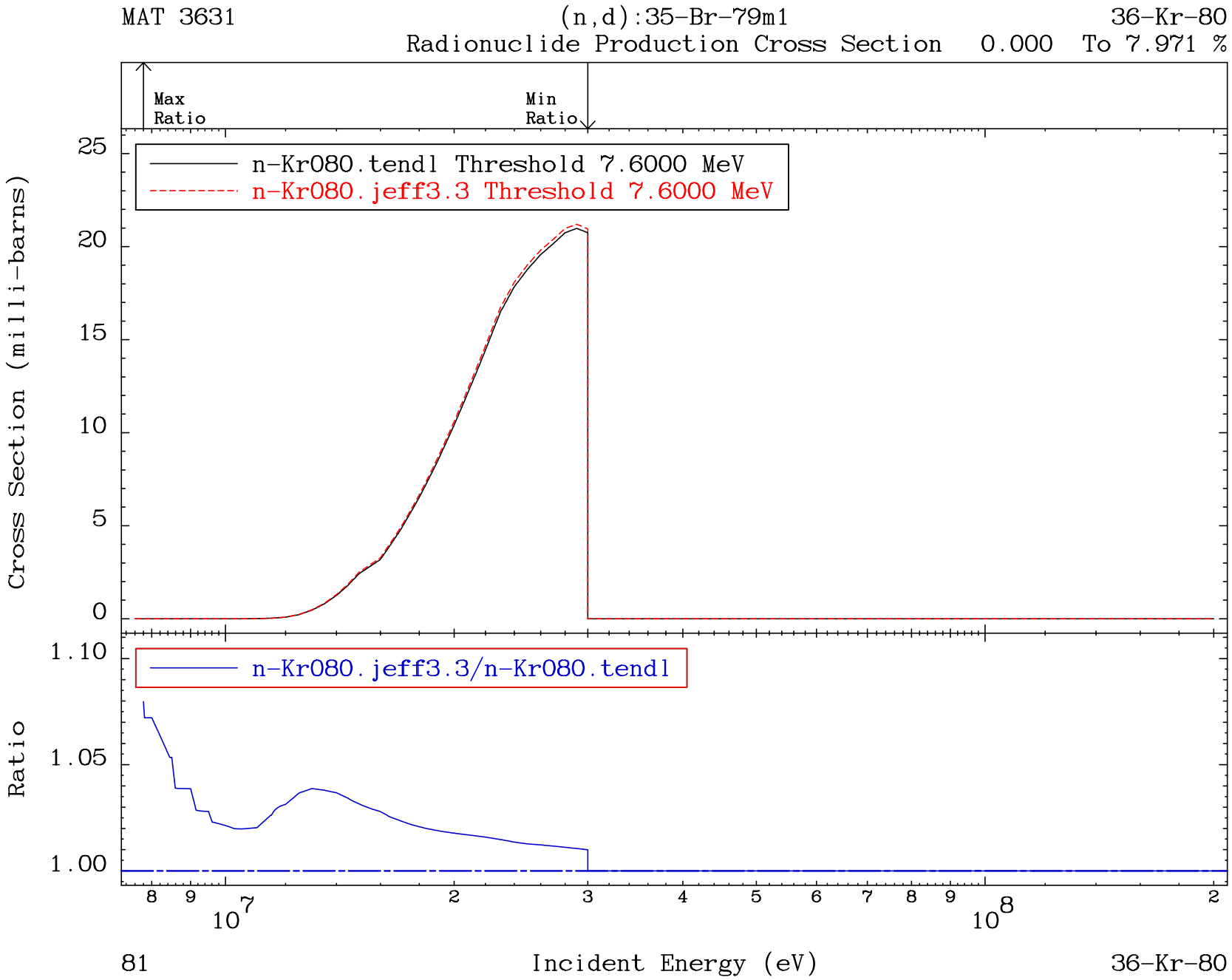

MAT 3631
(n,3n) p:35-Br-77g
36-Kr-80
Radionuclide Production Cross Section -4.896 To 0.000 %
Max
Ratio
n-Kr080.tendl Threshold 28.445 MeV
n-Kr080.jeff3.3 Threshold 28.445 MeV
Cross Section ($10^{-9}$ barns)
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.98
0.96
40
60
80
100
120
140
160
180
200
76
Incident Energy (MeV)
36-Kr-80

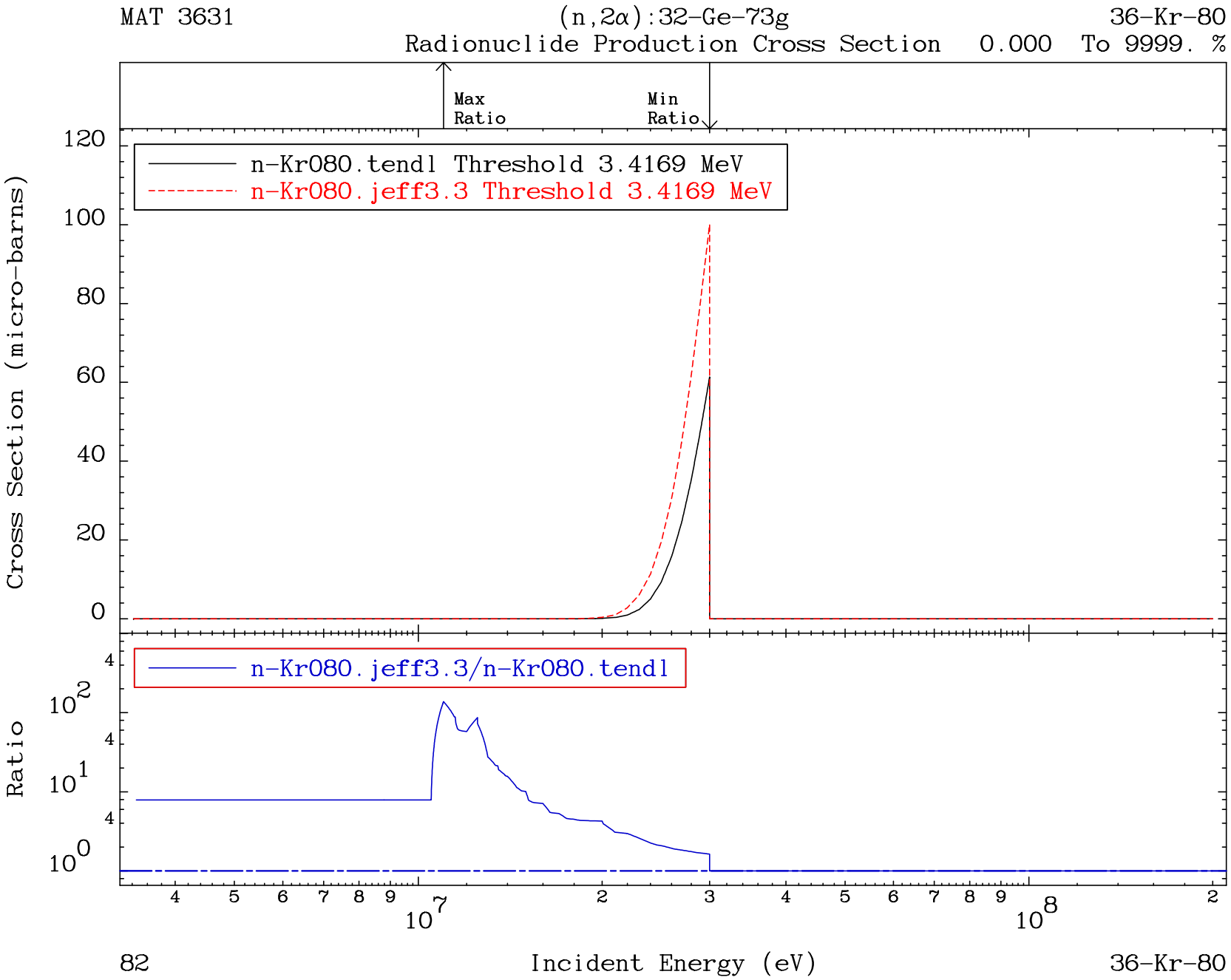

MAT 3631
(n,3n) p:35-Br-77m1
36-Kr-80
Radionuclide Production Cross Section -3.159 To 0.000 %
Max
Ratio
n-Kr080.tendl Threshold 28.552 MeV
n-Kr080.jeff3.3 Threshold 28.552 MeV
Cross Section ($10^{-9}$ barns)
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
0.99
0.98
0.97
40
60
80
100
120
140
160
180
200
77
Incident Energy (MeV)
36-Kr-80

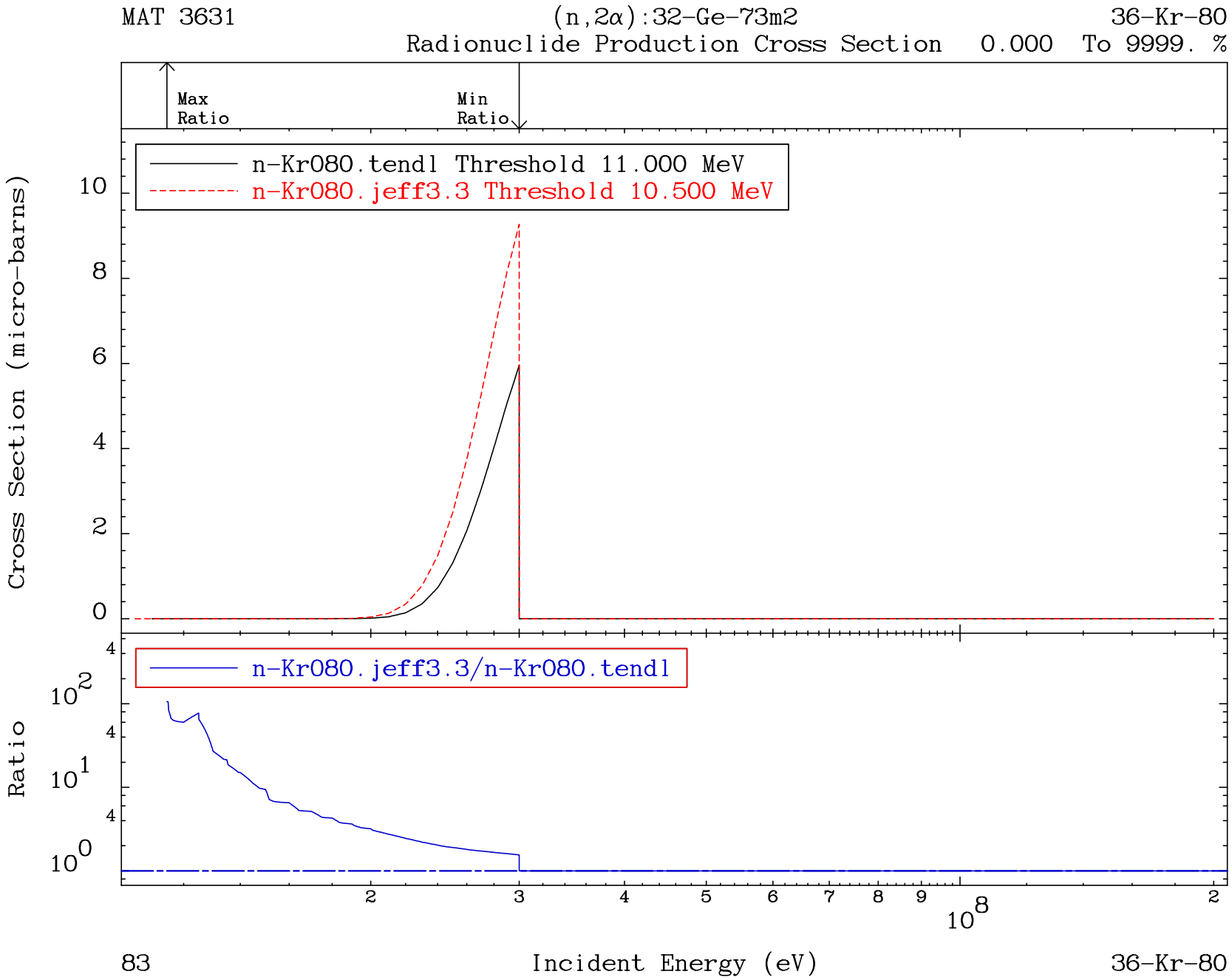

MAT 3631
(n,p):35-Br-80g
36-Kr-80
Radionuclide Production Cross Section -12.11 To 11.97 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 1.2374 MeV
n-Kr080.jeff3.3 Threshold 1.2374 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
78
Incident Energy (eV)
36-Kr-80

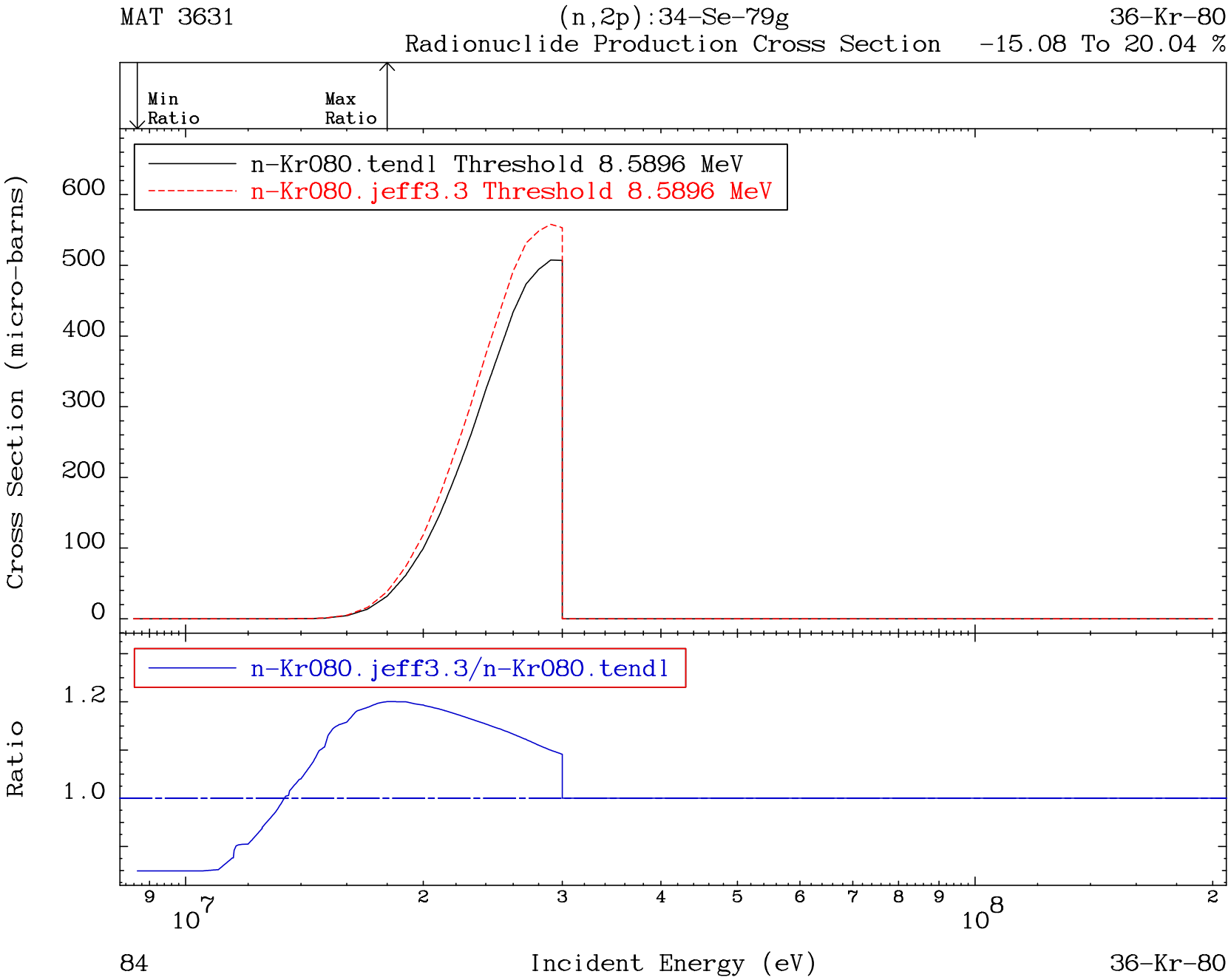

MAT 3631
(n,p):35-Br-80m2
36-Kr-80
Radionuclide Production Cross Section -9.846 To 12.02 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 1.3244 MeV
n-Kr080.jeff3.3 Threshold 1.3244 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.1
1.0
0.9
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
79
Incident Energy (eV)
36-Kr-80

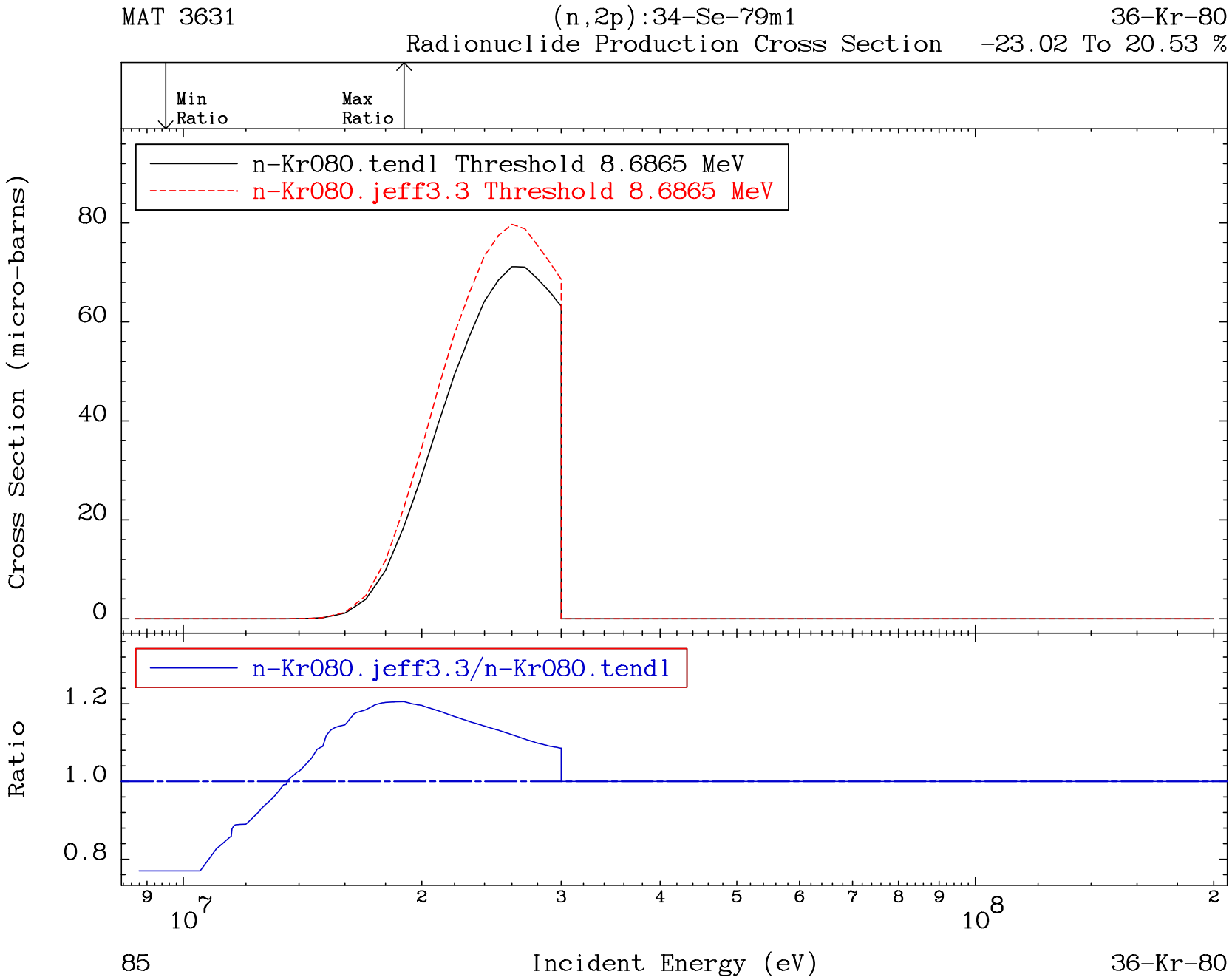

MAT 3631
(n,d):35-Br-79g
36-Kr-80
Radionuclide Production Cross Section 0.000 To 8.306 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 6.9767 MeV
n-Kr080.jeff3.3 Threshold 6.9767 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.00
1.05
1.10
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
80
Incident Energy (eV)
36-Kr-80

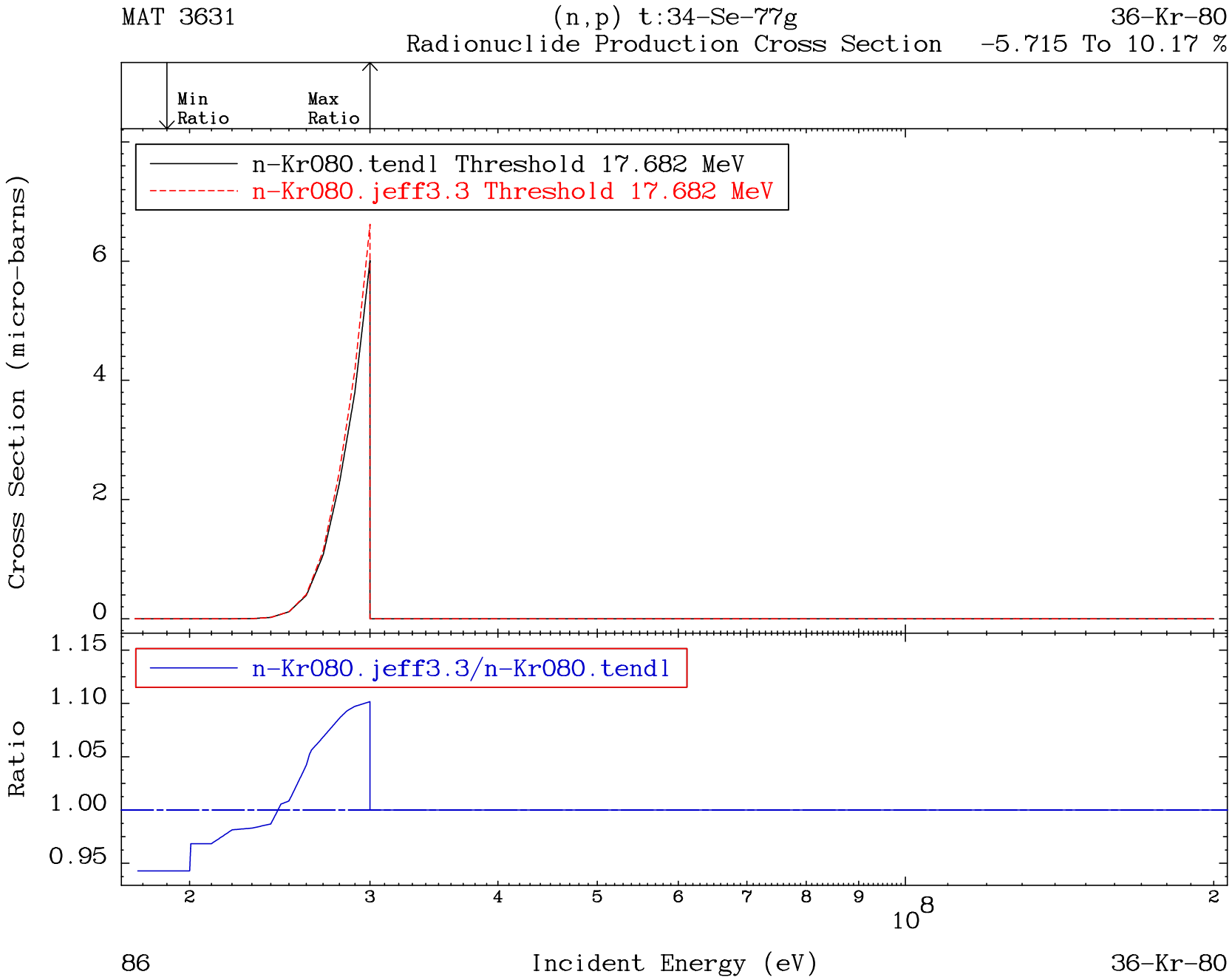

MAT 3631
(n,d):35-Br-79m1
36-Kr-80
Radionuclide Production Cross Section 0.000 To 7.971 %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 7.6000 MeV
n-Kr080.jeff3.3 Threshold 7.6000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.05
1.00
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
81
Incident Energy (eV)
36-Kr-80

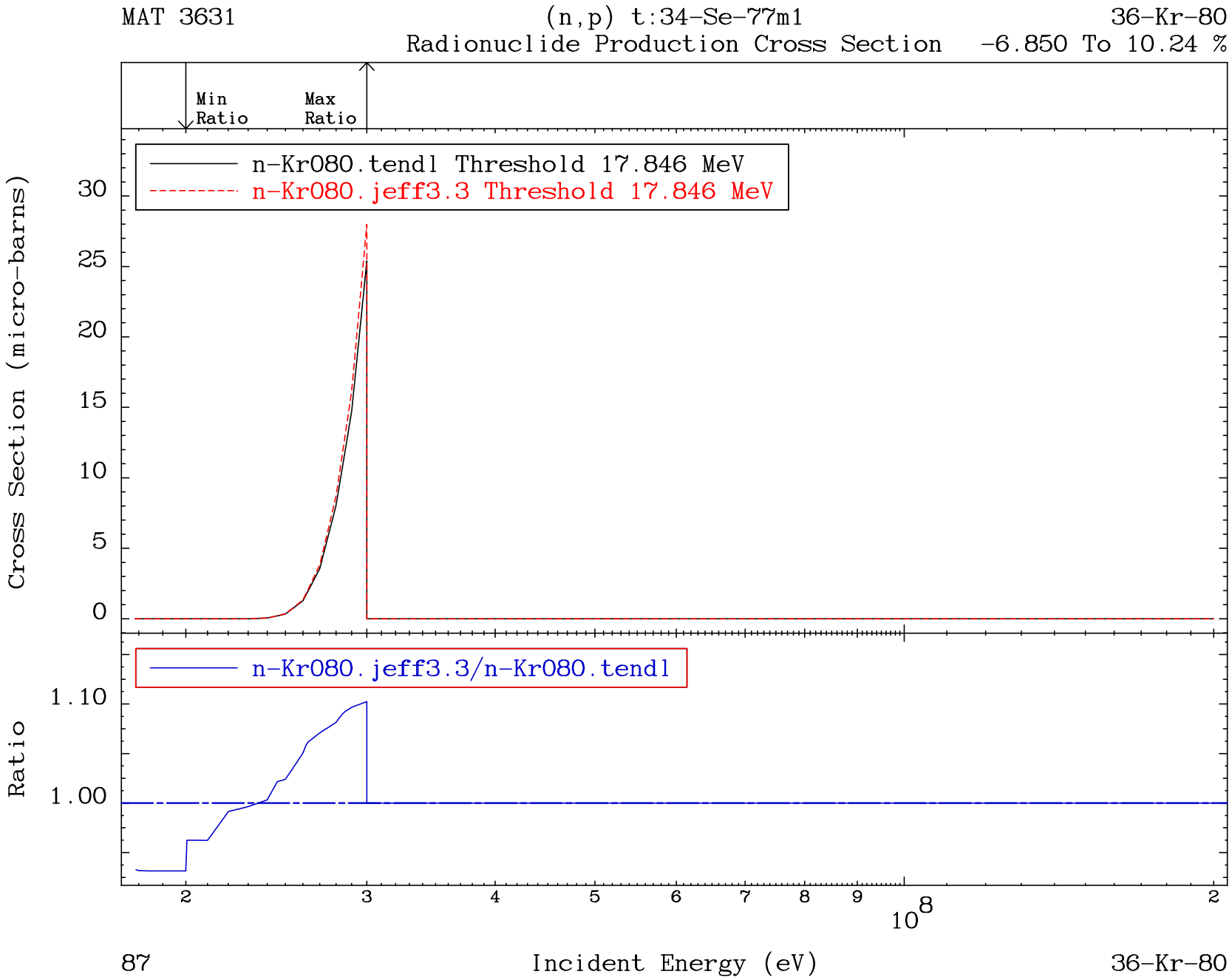

MAT 3631
(n,2α):32-Ge-73g
36-Kr-80
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 3.4169 MeV
n-Kr080.jeff3.3 Threshold 3.4169 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^2
10^1
10^0
4
4
4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
82
Incident Energy (eV)
36-Kr-80


MAT 3631
(n,2α):32-Ge-73m2
36-Kr-80
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr080.tendl Threshold 11.000 MeV
n-Kr080.jeff3.3 Threshold 10.500 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
36-Kr-80


MAT 3631
(n,2p):34-Se-79g
36-Kr-80
Radionuclide Production Cross Section -15.08 To 20.04 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 8.5896 MeV
n-Kr080.jeff3.3 Threshold 8.5896 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
36-Kr-80


MAT 3631
(n,2p):34-Se-79m1
36-Kr-80
Radionuclide Production Cross Section -23.02 To 20.53 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 8.6865 MeV
n-Kr080.jeff3.3 Threshold 8.6865 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.2
1.0
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
36-Kr-80


MAT 3631
(n,p) t:34-Se-77g
36-Kr-80
Radionuclide Production Cross Section -5.715 To 10.17 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 17.682 MeV
n-Kr080.jeff3.3 Threshold 17.682 MeV
Cross Section (micro-barns)
0
2
4
6
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
0.95
1.00
1.05
1.10
1.15
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
36-Kr-80


MAT 3631
(n,p) t:34-Se-77m1
36-Kr-80
Radionuclide Production Cross Section -6.850 To 10.24 %
Min Ratio
Max Ratio
n-Kr080.tendl Threshold 17.846 MeV
n-Kr080.jeff3.3 Threshold 17.846 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
n-Kr080.jeff3.3/n-Kr080.tendl
Ratio
1.10
1.00
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
36-Kr-80