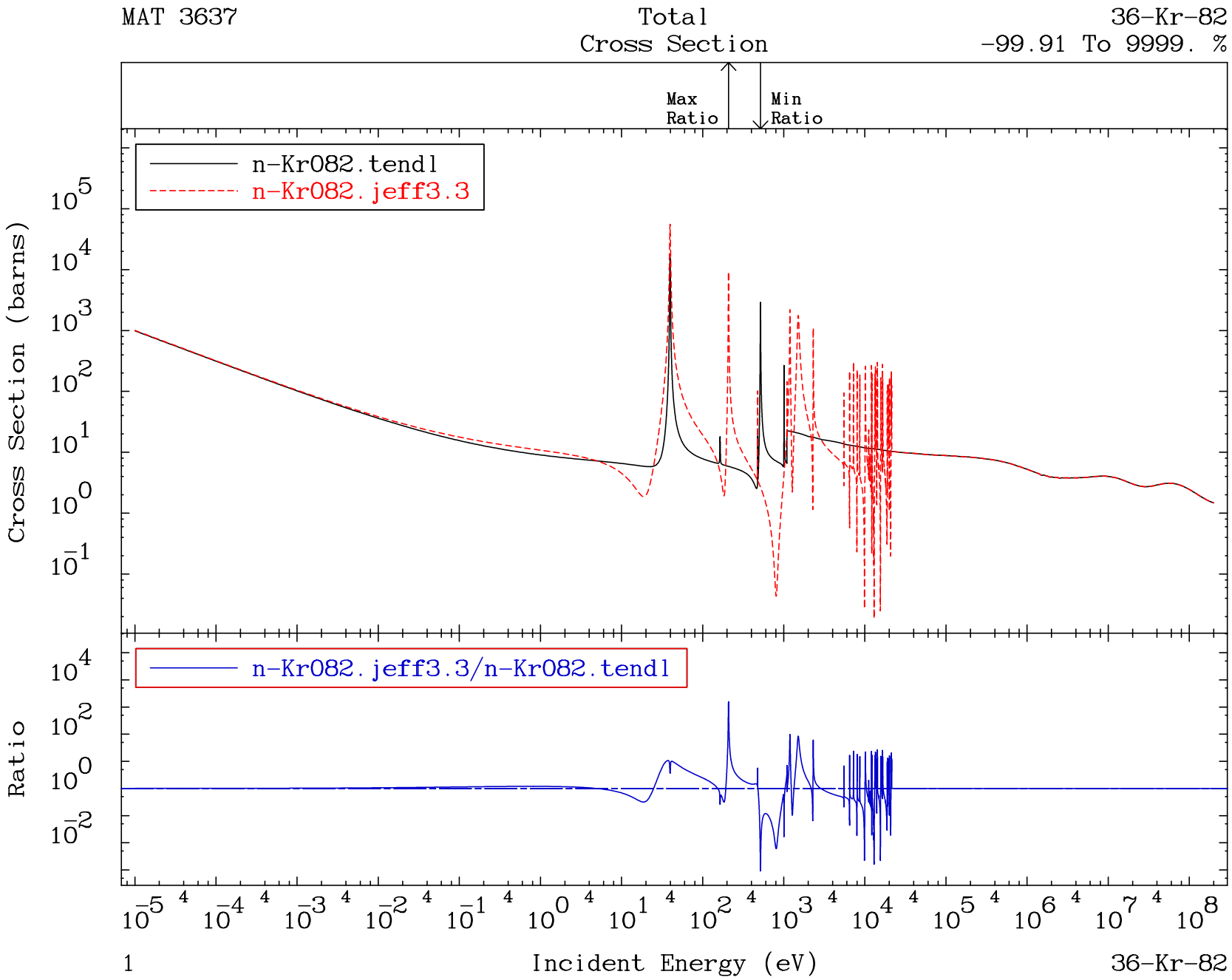
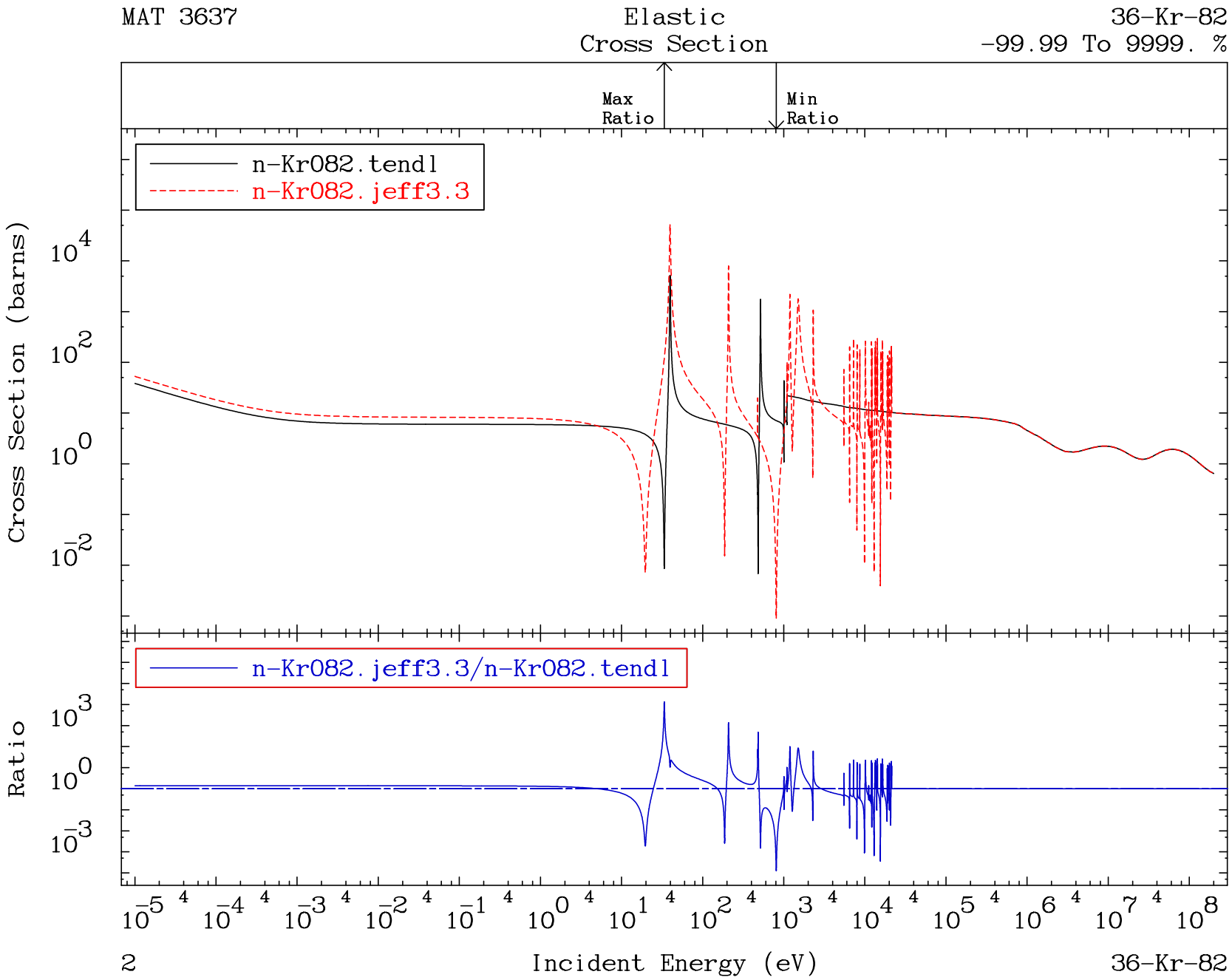
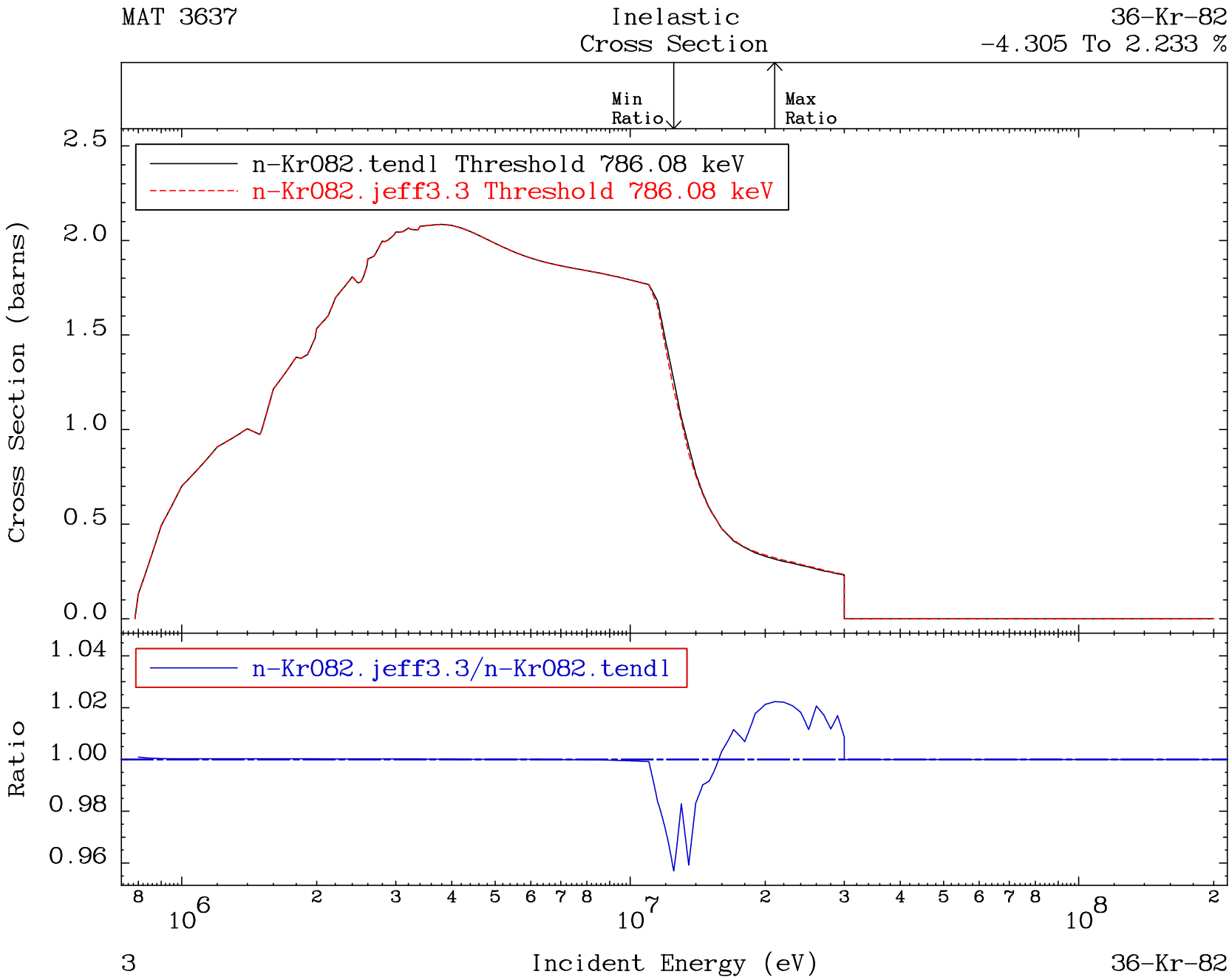
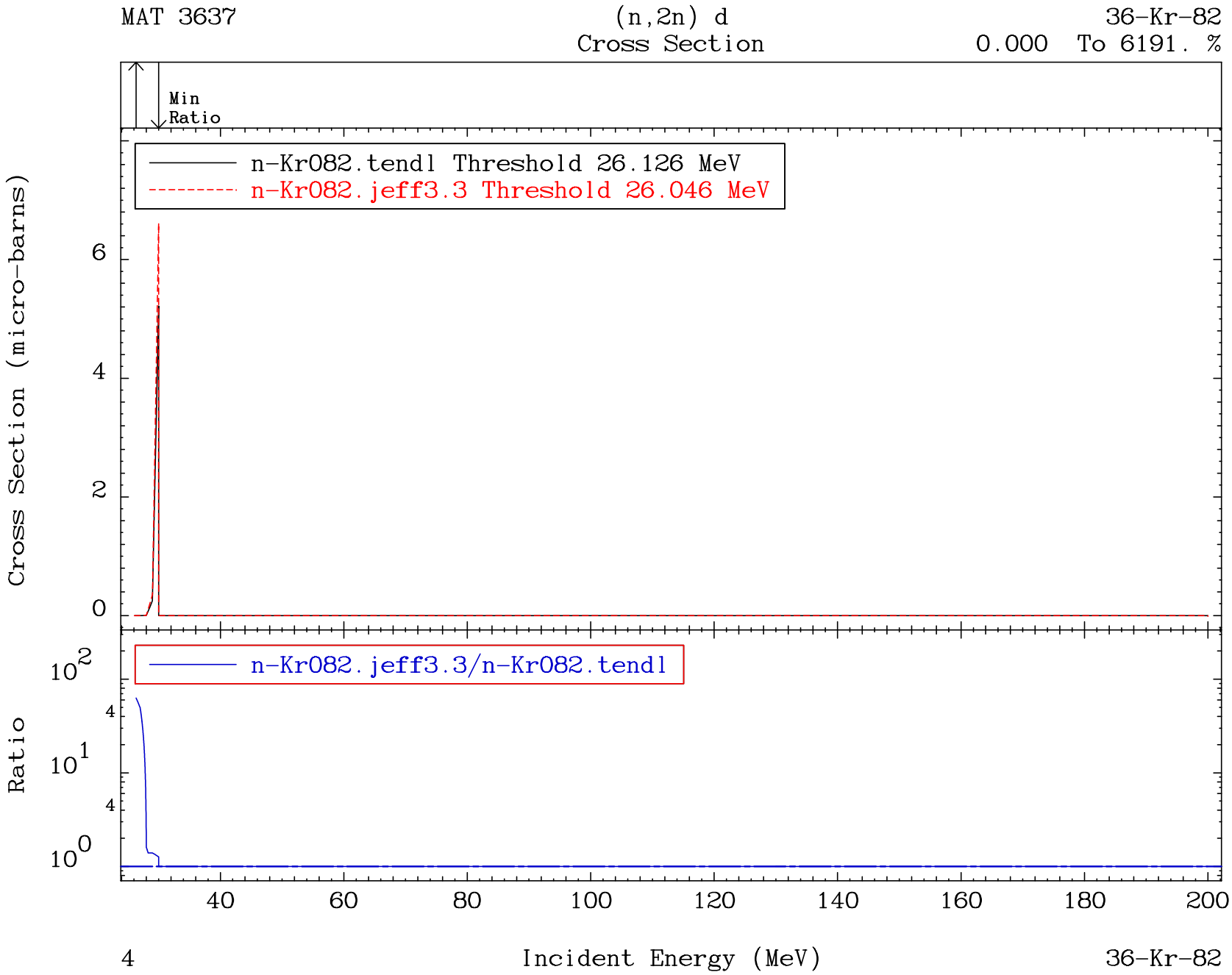
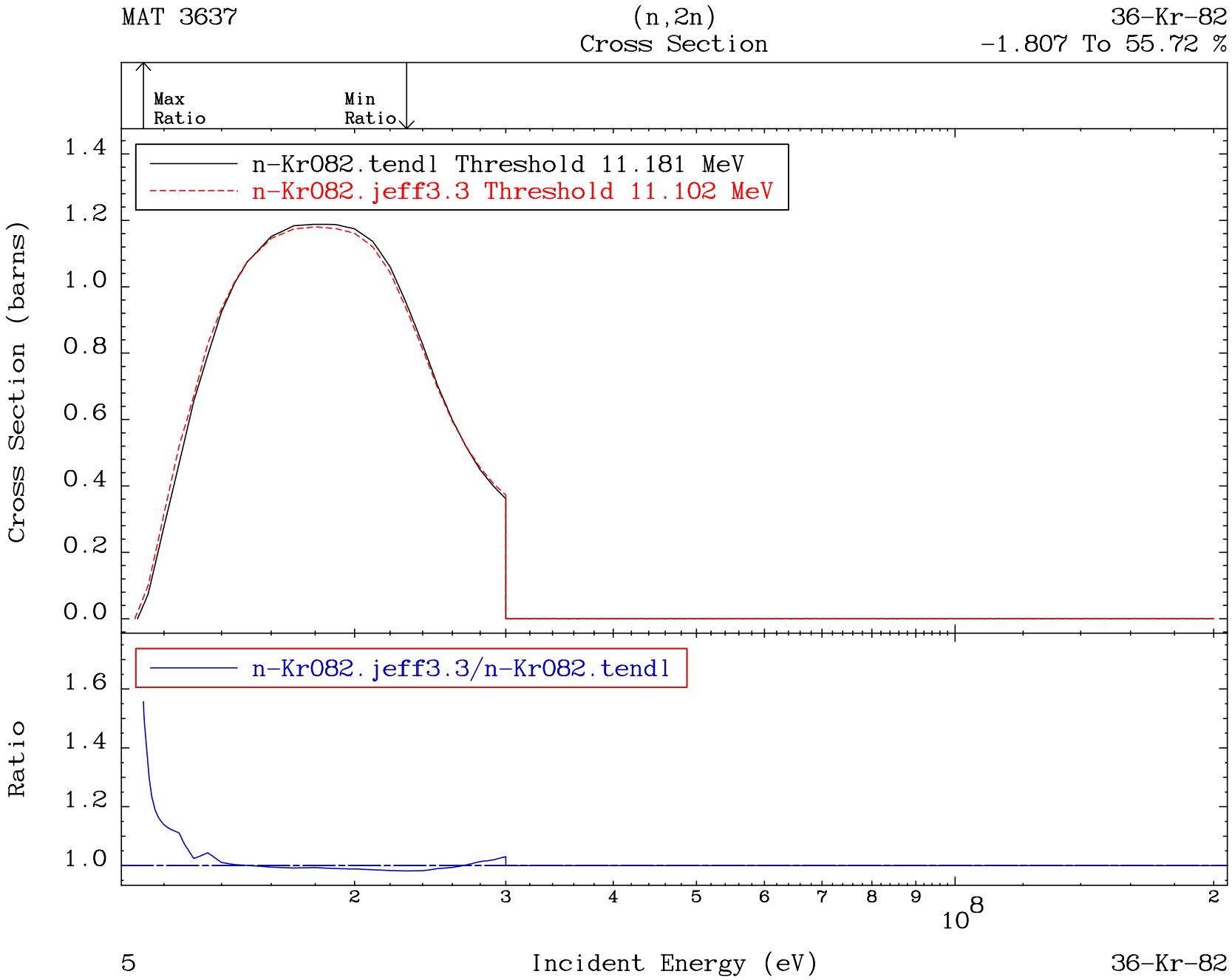
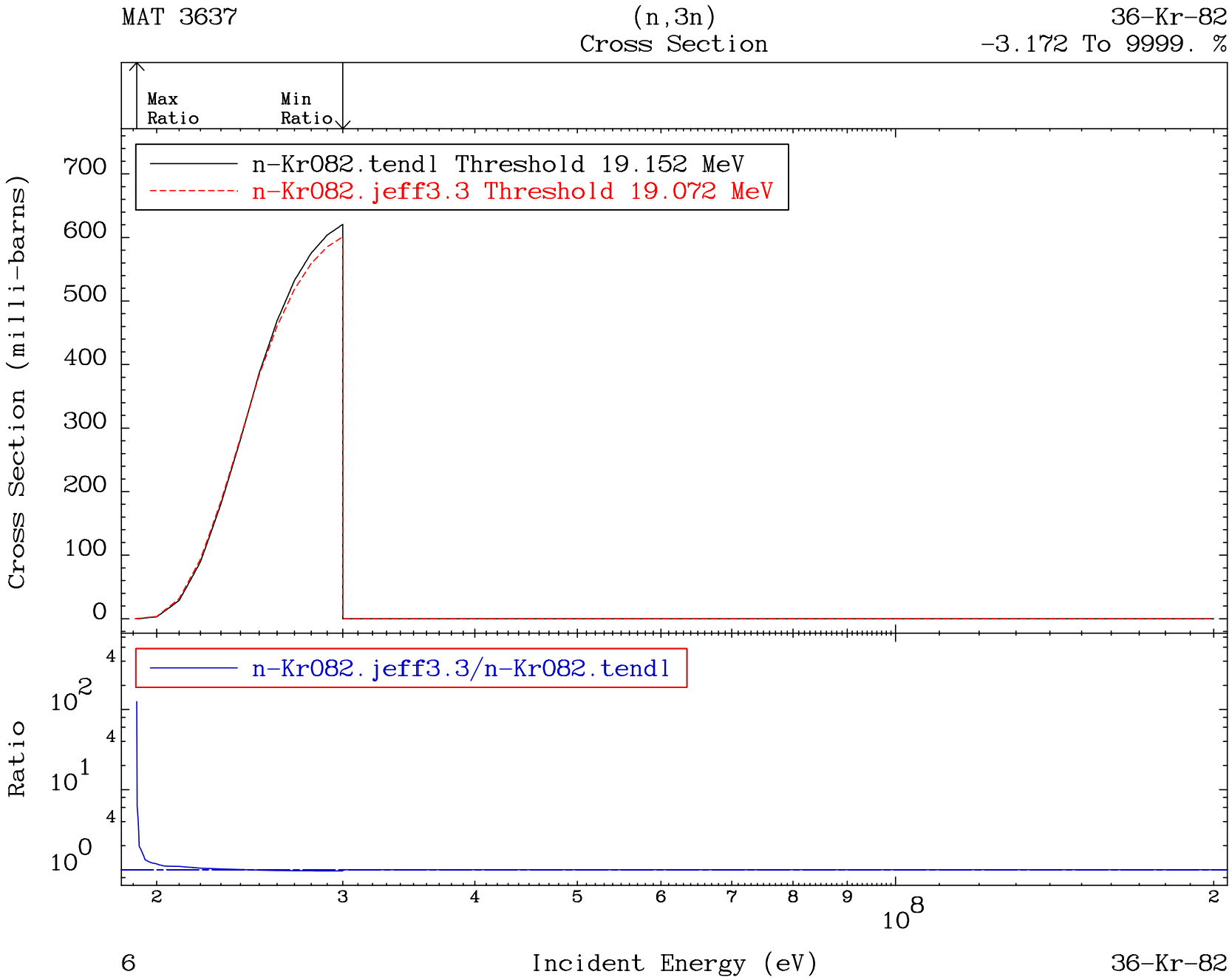

MAT 3637
Total
Cross Section
36-Kr-82
-99.91 To 9999. %
Max
Ratio
Min
Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
1
36-Kr-82

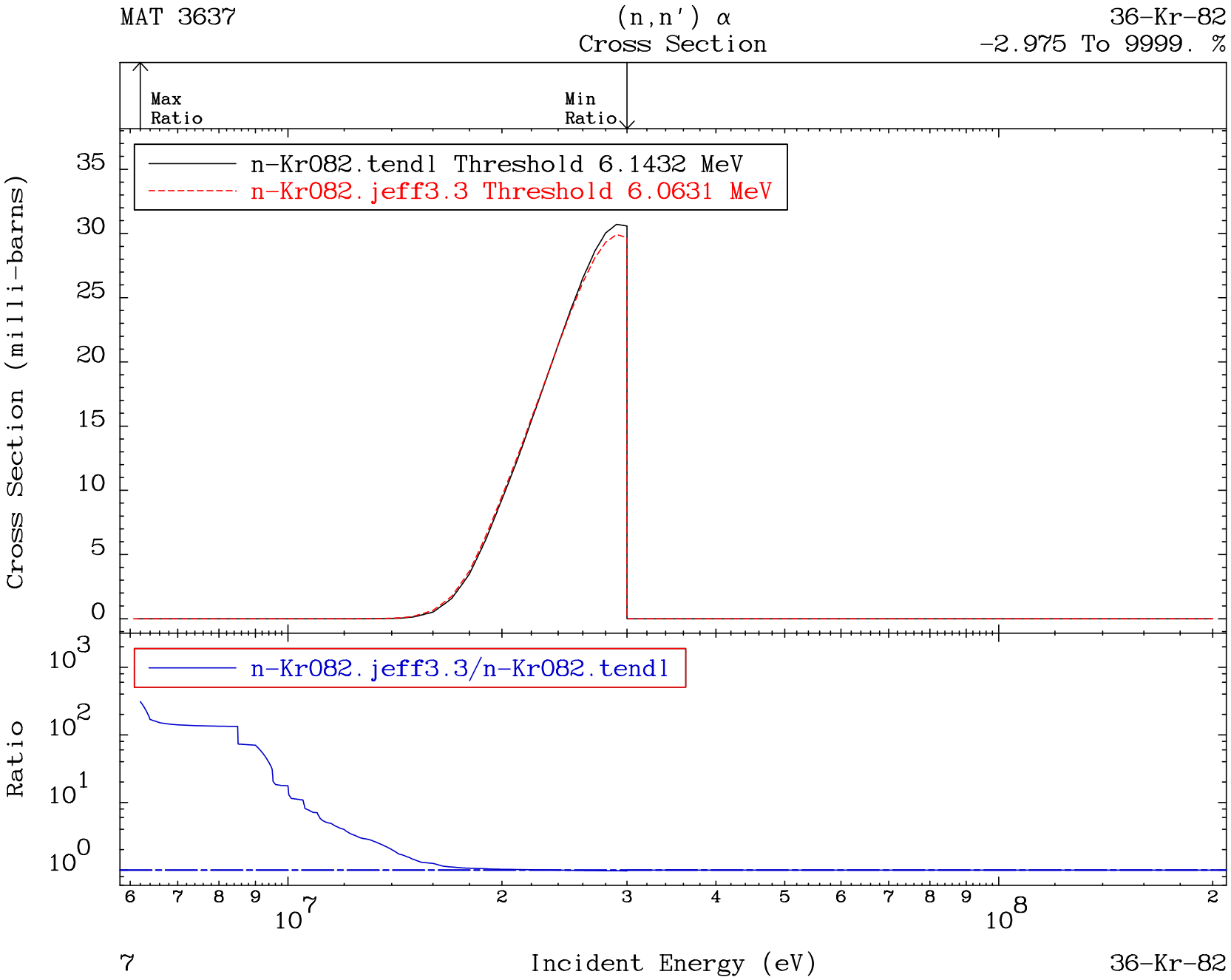

MAT 3637
Elastic
Cross Section
36-Kr-82
-99.99 To 9999. %
Max
Ratio
Min
Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
10^4
10^2
10^0
10^-2
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^3
10^0
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
2
Incident Energy (eV)
36-Kr-82

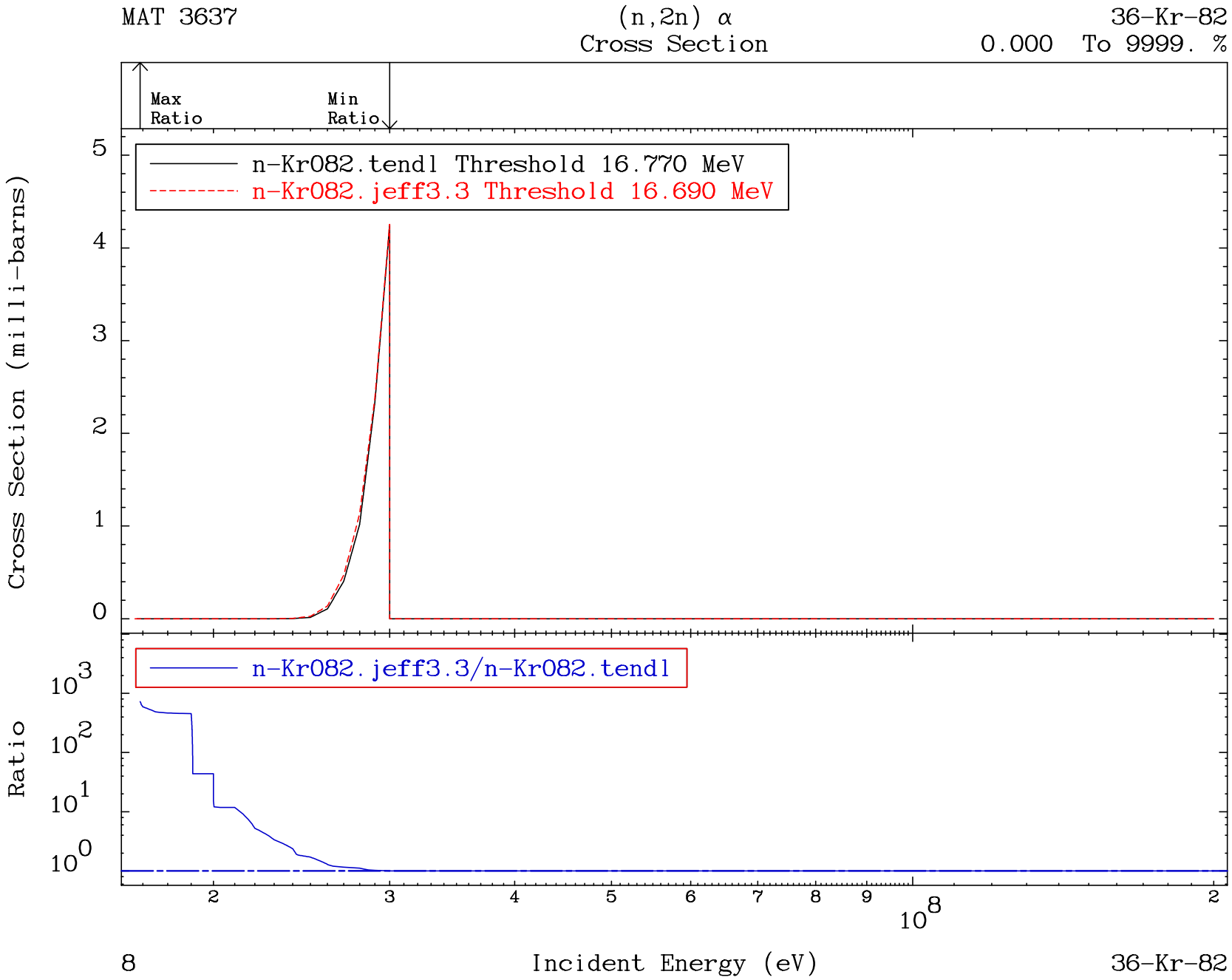

MAT 3637
Inelastic
Cross Section
36-Kr-82
-4.305 To 2.233 %
Min
Ratio
Max
Ratio
n-Kr082.tendl Threshold 786.08 keV
n-Kr082.jeff3.3 Threshold 786.08 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.04
1.02
1.00
0.98
0.96
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
36-Kr-82

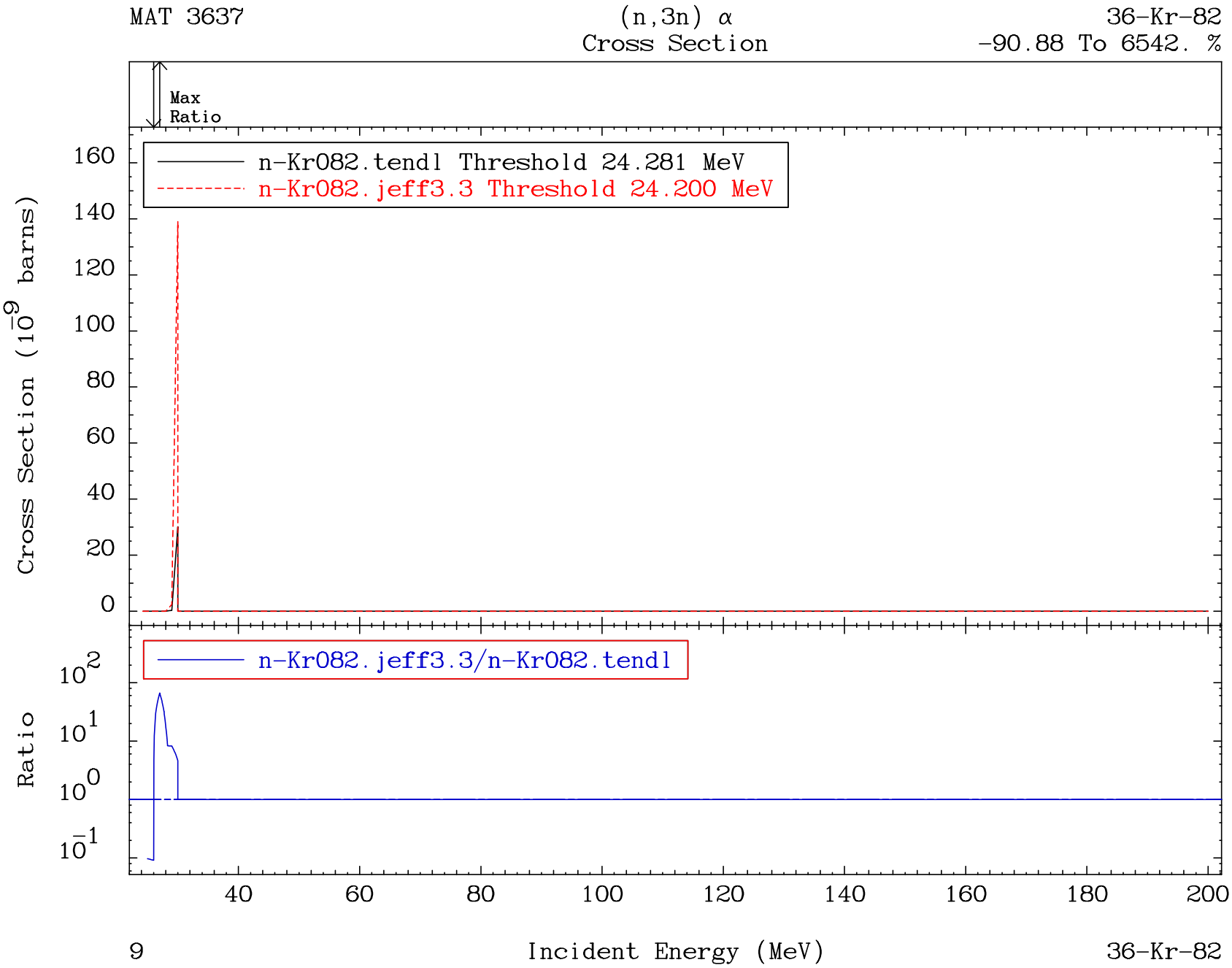

MAT 3637
(n,2n) d
Cross Section
36-Kr-82
0.000 To 6191. %
Min
Ratio
n-Kr082.tendl Threshold 26.126 MeV
n-Kr082.jeff3.3 Threshold 26.046 MeV
Cross Section (micro-barns)
0
2
4
6
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
4
10^1
4
10^0
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
36-Kr-82

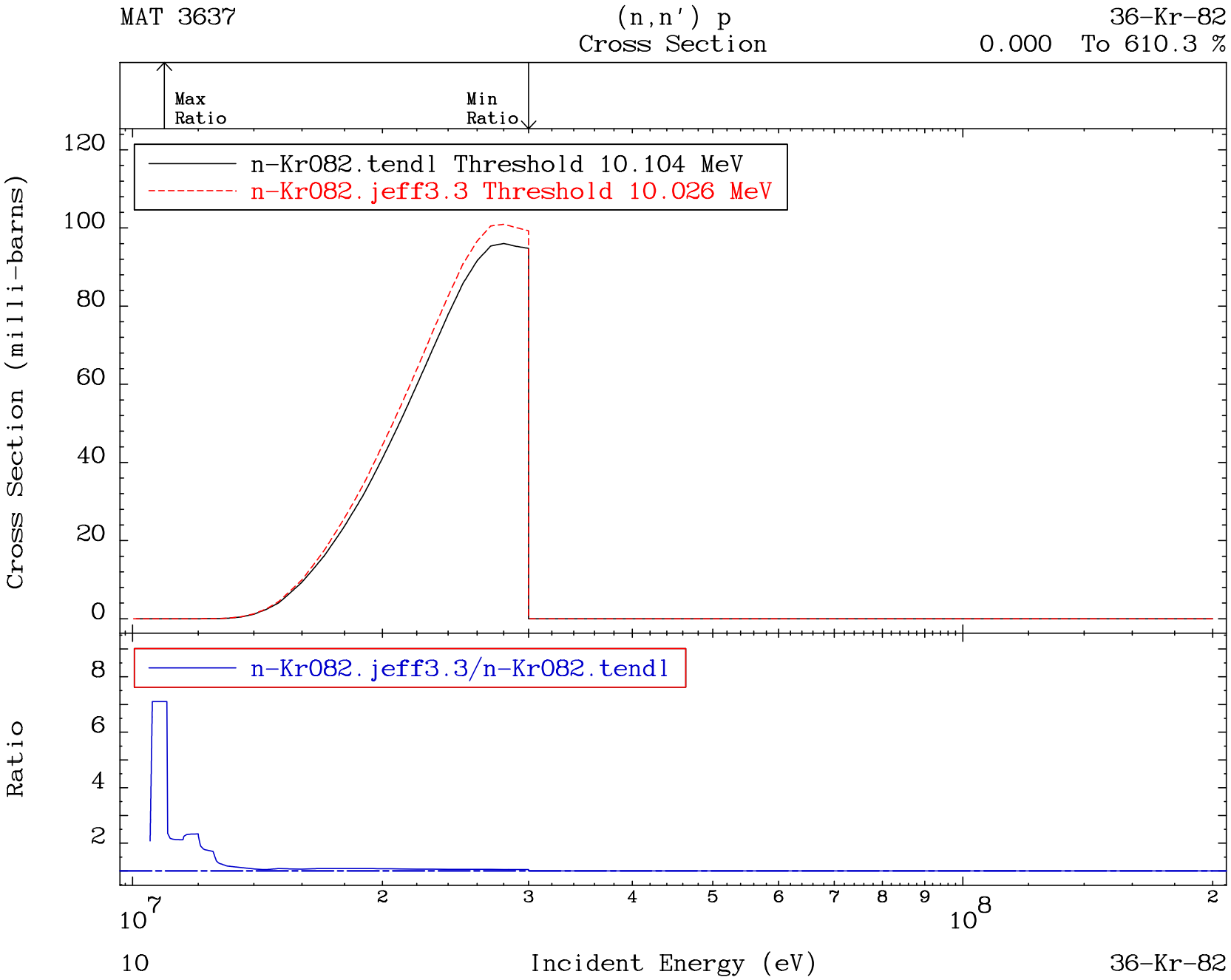

MAT 3637
(n,2n)
Cross Section
36-Kr-82
-1.807 To 55.72 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.181 MeV
n-Kr082.jeff3.3 Threshold 11.102 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
36-Kr-82

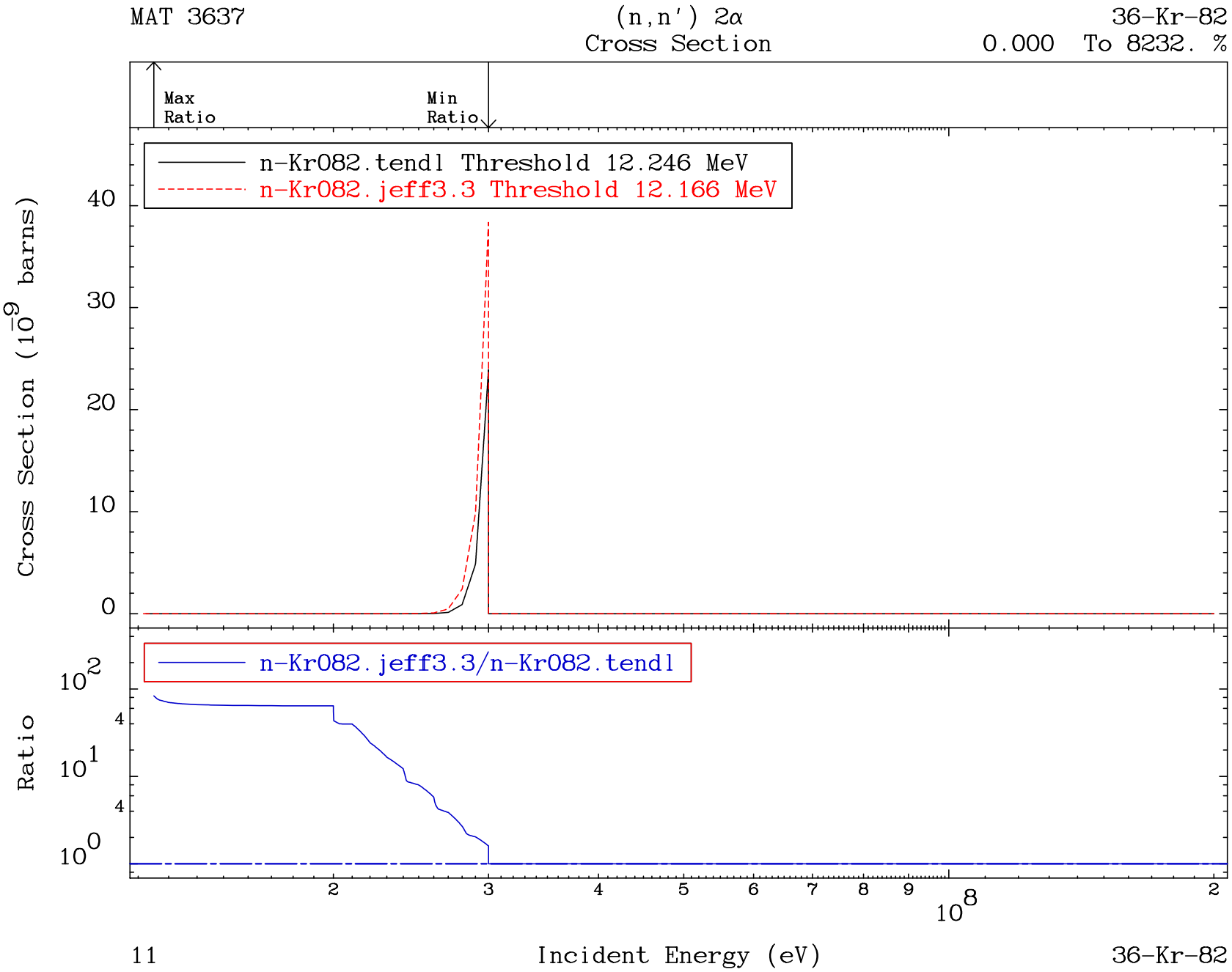

MAT 3637
(n,3n)
Cross Section
36-Kr-82
-3.172 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.152 MeV
n-Kr082.jeff3.3 Threshold 19.072 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
36-Kr-82

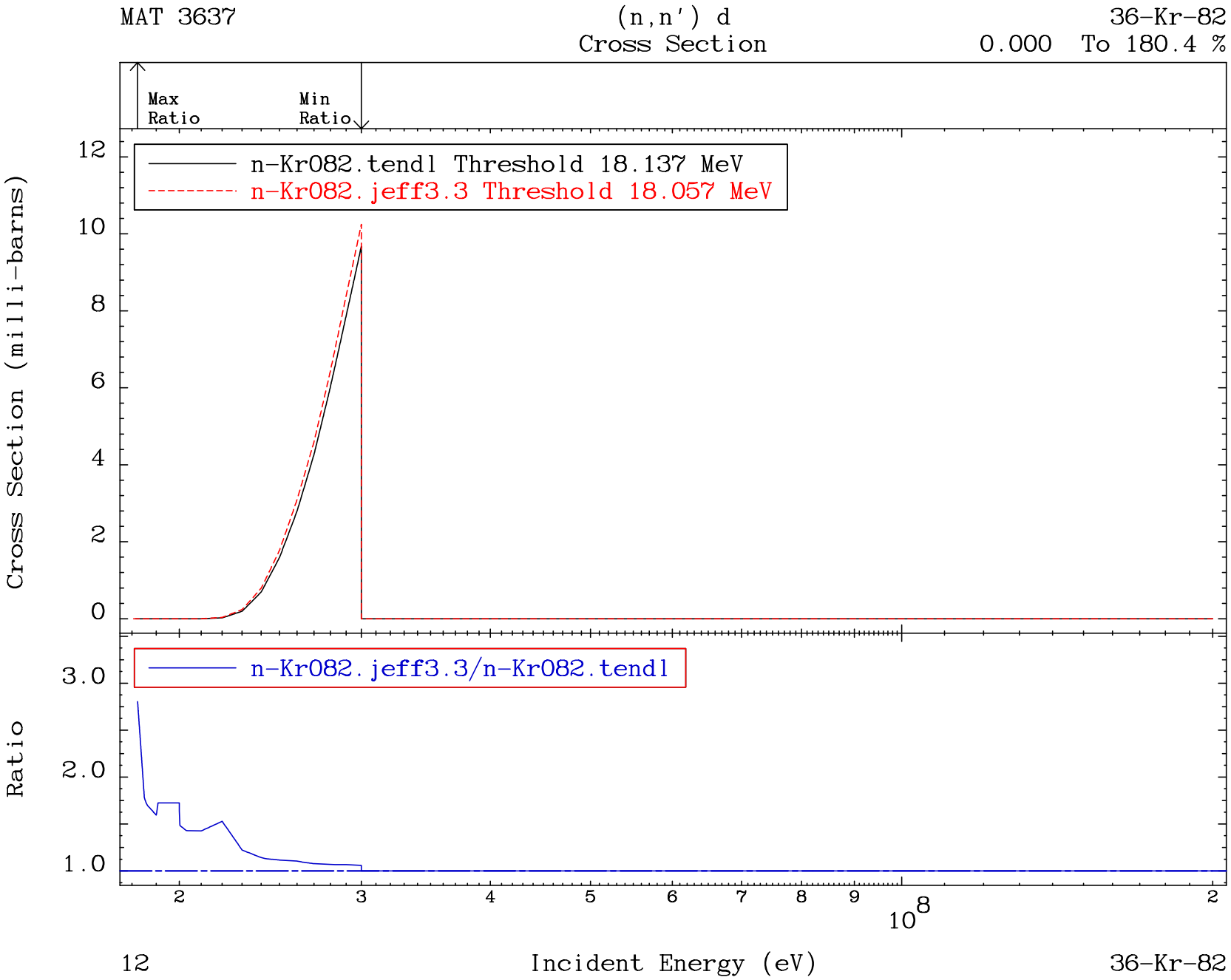

MAT 3637
(n,n') α
Cross Section
36-Kr-82
-2.975 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 6.1432 MeV
n-Kr082.jeff3.3 Threshold 6.0631 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^3
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
36-Kr-82

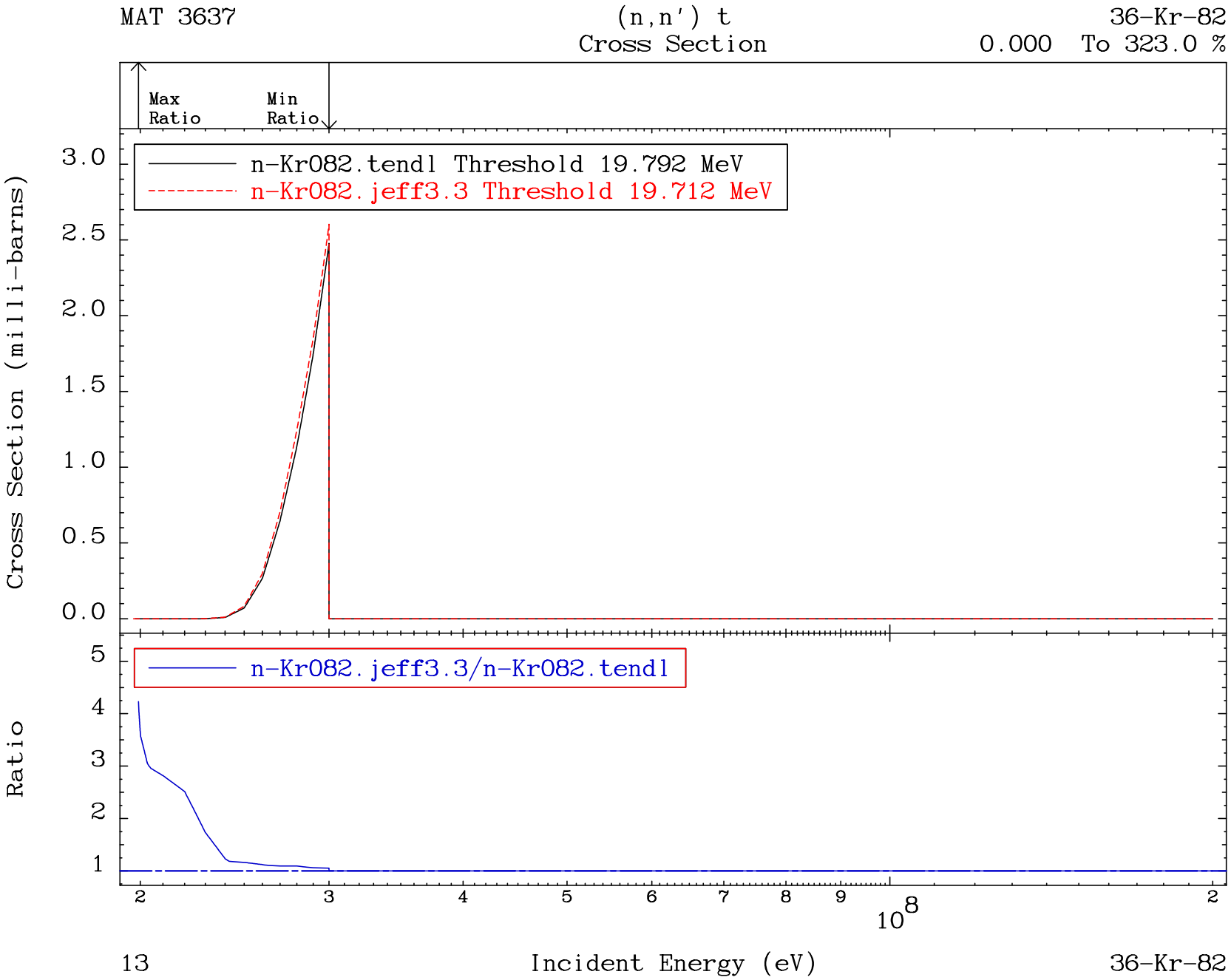

MAT 3637
(n,2n) α
Cross Section
36-Kr-82
0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 16.770 MeV
n-Kr082.jeff3.3 Threshold 16.690 MeV
Cross Section (milli-barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
8
36-Kr-82

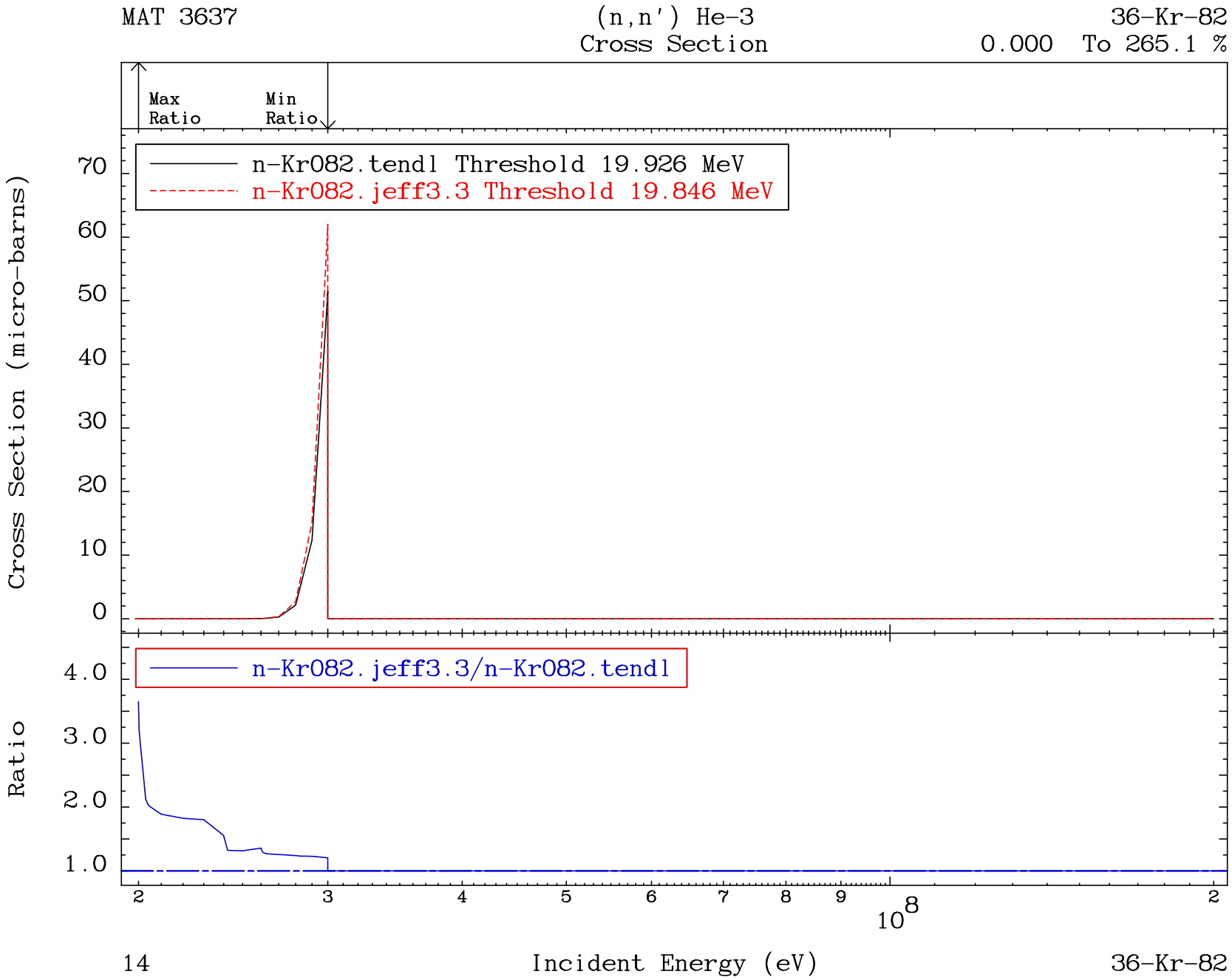

MAT 3637
(n,3n) α
Cross Section
36-Kr-82
-90.88 To 6542. %
Max
Ratio
n-Kr082.tendl Threshold 24.281 MeV
n-Kr082.jeff3.3 Threshold 24.200 MeV
Cross Section (10^-9 barns)
160
140
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
10^1
10^0
10^-1
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
36-Kr-82

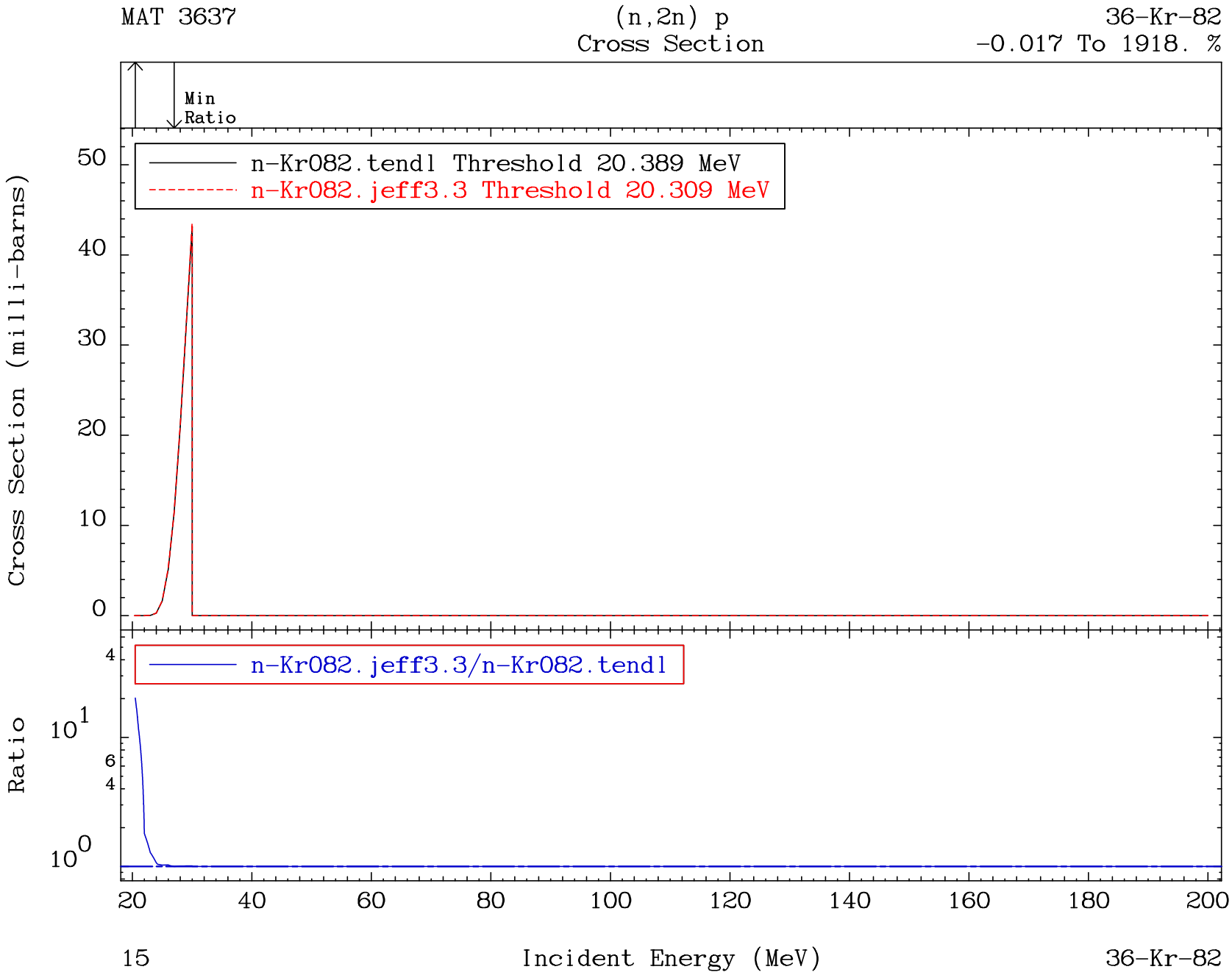

MAT 3637
(n,n') p
Cross Section
36-Kr-82
0.000 To 610.3 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 10.104 MeV
n-Kr082.jeff3.3 Threshold 10.026 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
8
6
4
2
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
36-Kr-82

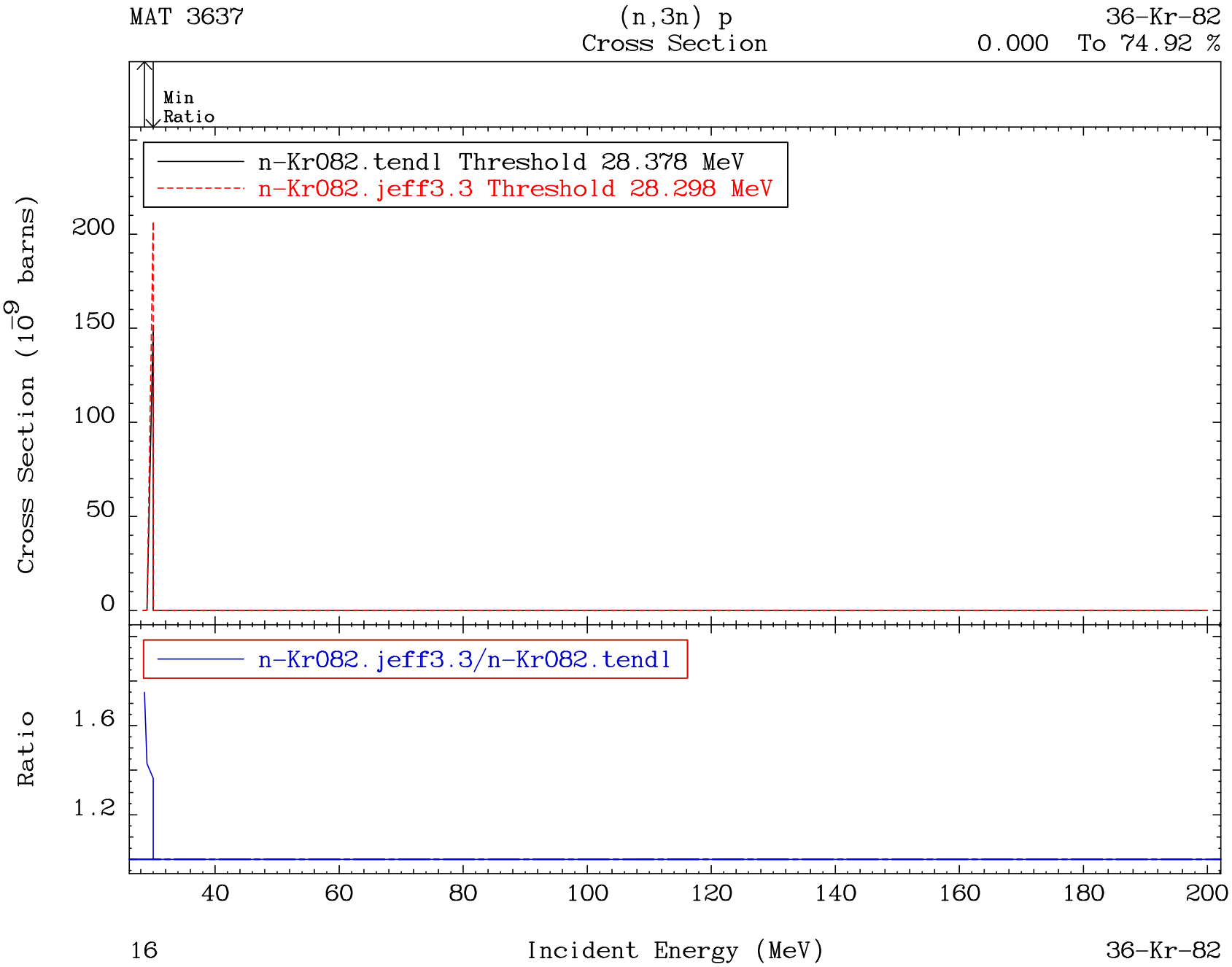

MAT 3637
(n,n') 2α
Cross Section
36-Kr-82
0.000 To 8232. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 12.246 MeV
n-Kr082.jeff3.3 Threshold 12.166 MeV
Cross Section (10^-9 barns)
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
36-Kr-82

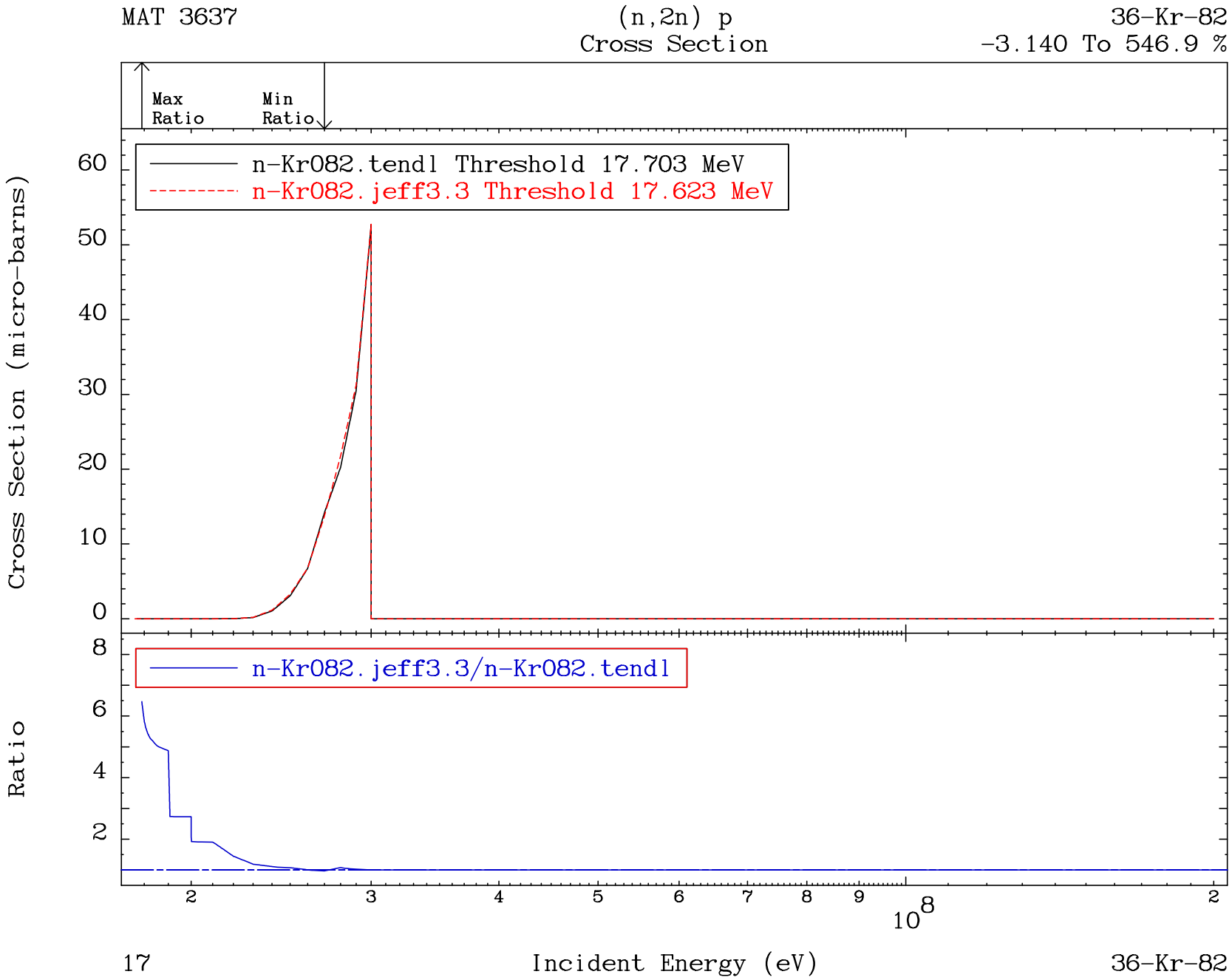

MAT 3637
(n,n') d
Cross Section
36-Kr-82
0.000 To 180.4 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 18.137 MeV
n-Kr082.jeff3.3 Threshold 18.057 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
36-Kr-82

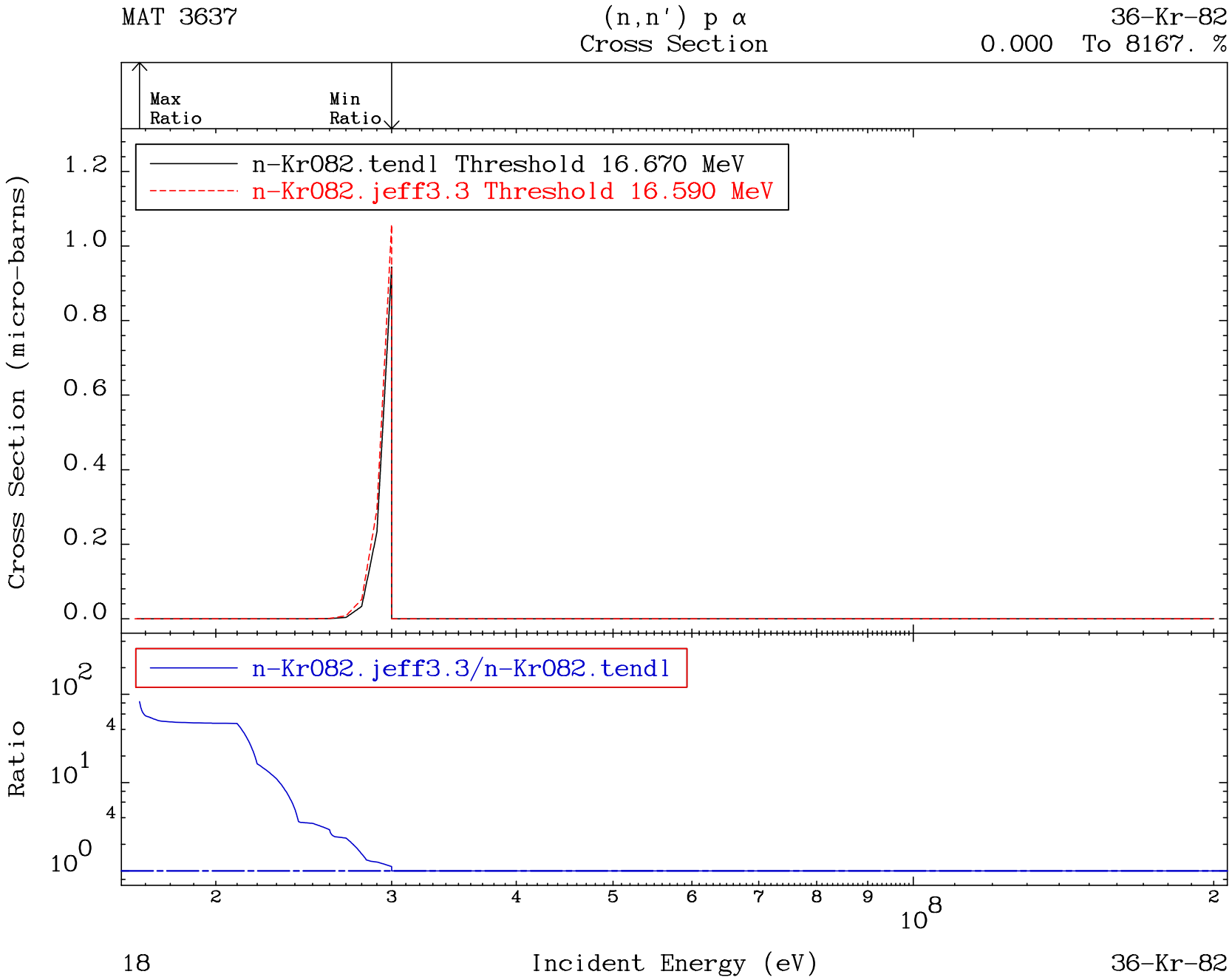

MAT 3637
(n,n') t
Cross Section
36-Kr-82
0.000 To 323.0 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.792 MeV
n-Kr082.jeff3.3 Threshold 19.712 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
5
4
3
2
1
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
36-Kr-82

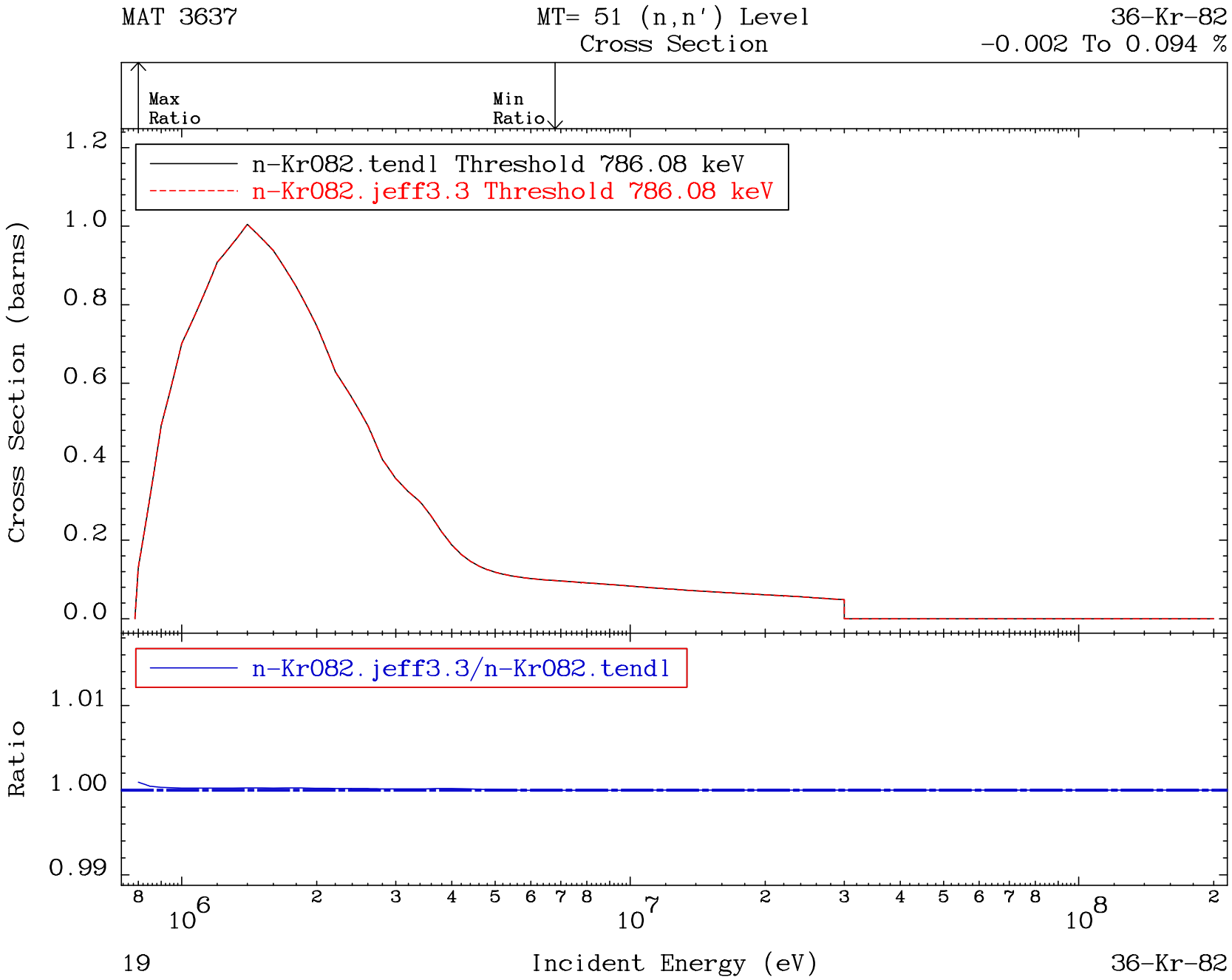

MAT 3637
(n,n') He-3
Cross Section
36-Kr-82
0.000 To 265.1 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.926 MeV
n-Kr082.jeff3.3 Threshold 19.846 MeV
Cross Section (micro-barns)
70
60
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
36-Kr-82

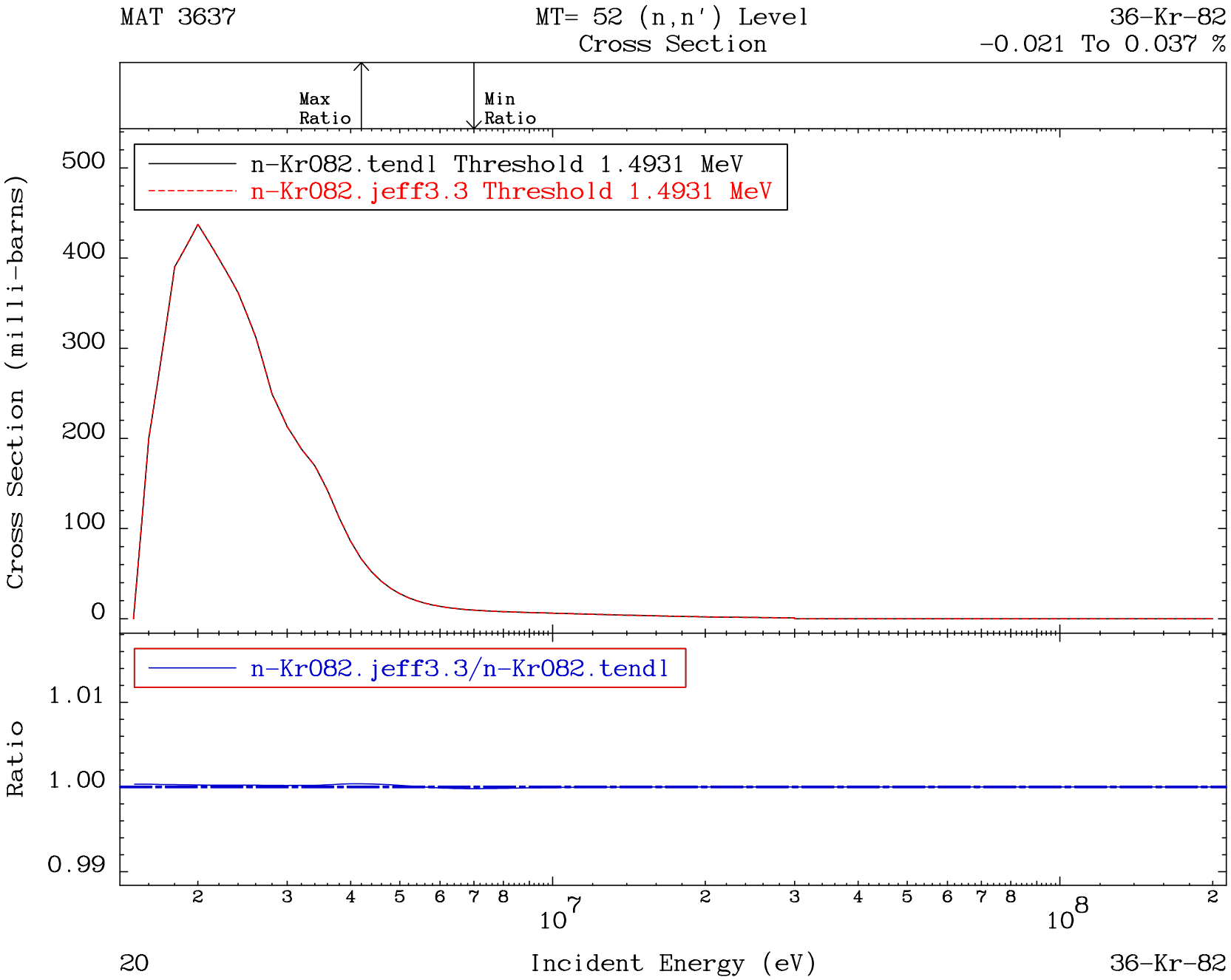

MAT 3637
(n,2n) p
Cross Section
36-Kr-82
-0.017 To 1918. %
Min
Ratio
n-Kr082.tendl Threshold 20.389 MeV
n-Kr082.jeff3.3 Threshold 20.309 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4
10^1
6
4
10^0
20
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
36-Kr-82

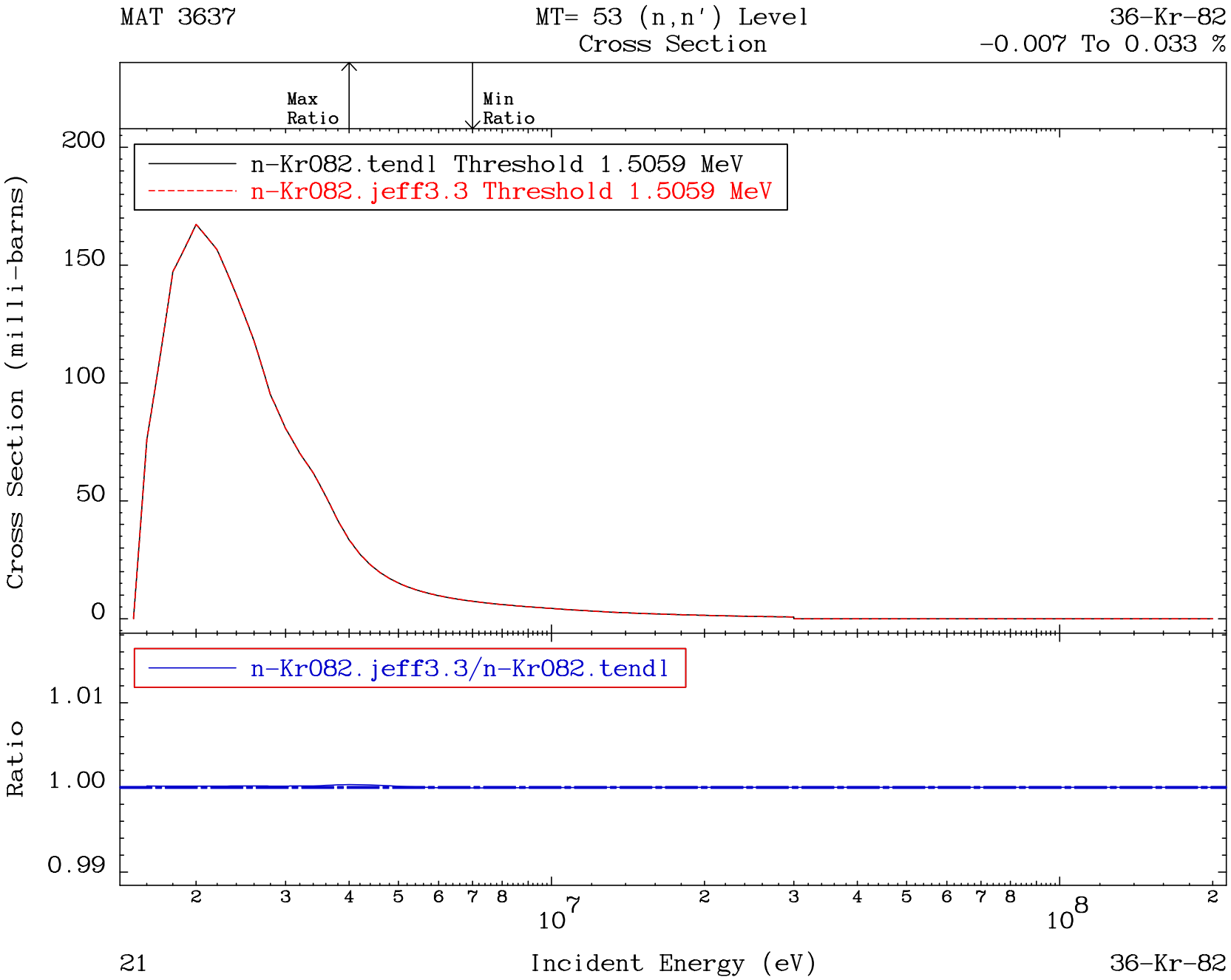

MAT 3637
(n,3n) p
Cross Section
36-Kr-82
0.000 To 74.92 %
Min
Ratio
n-Kr082.tendl Threshold 28.378 MeV
n-Kr082.jeff3.3 Threshold 28.298 MeV
Cross Section (10^-9 barns)
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.6
1.2
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
36-Kr-82

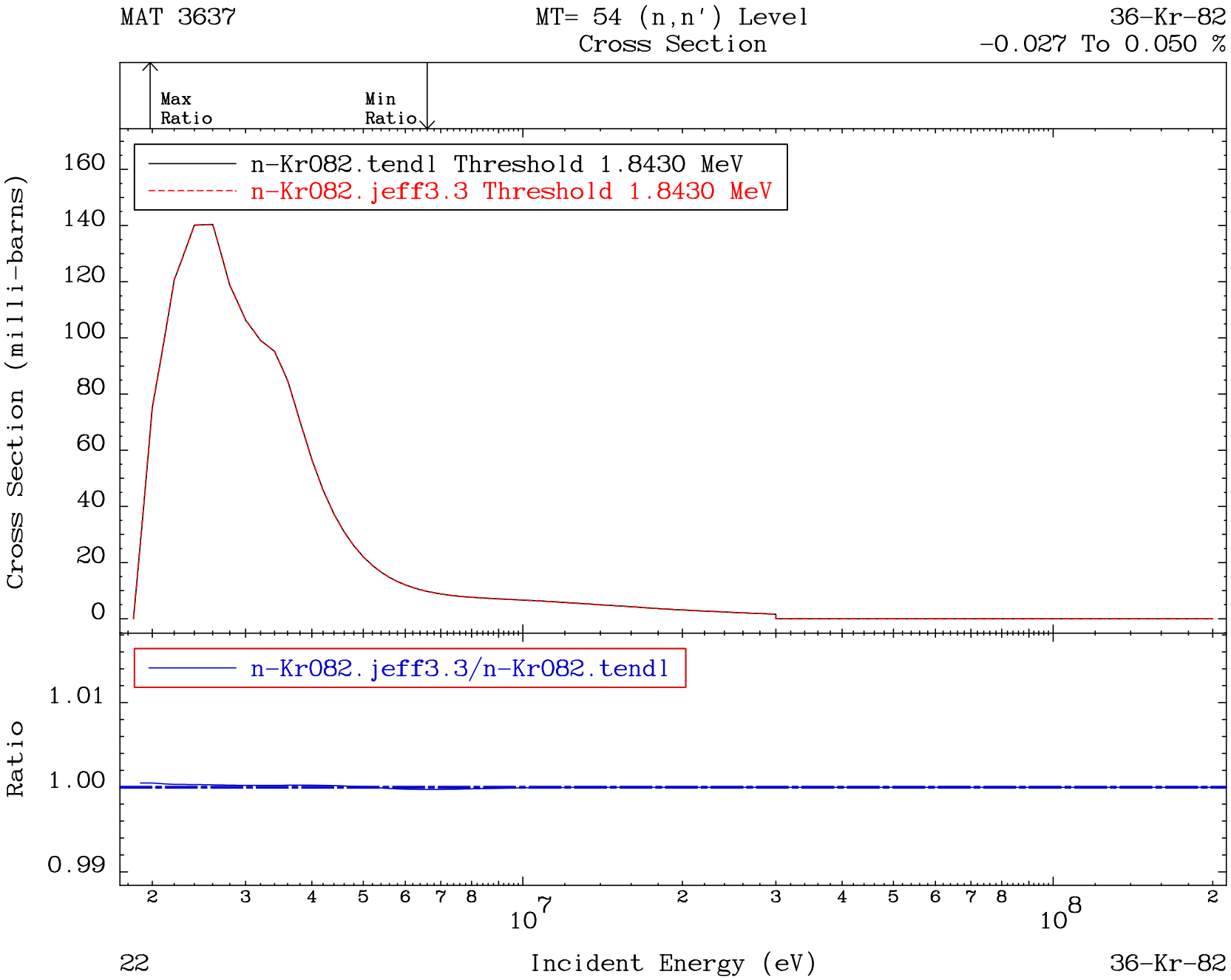

MAT 3637
(n,2n) p
Cross Section
36-Kr-82
-3.140 To 546.9 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 17.703 MeV
n-Kr082.jeff3.3 Threshold 17.623 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
8
6
4
2
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
36-Kr-82

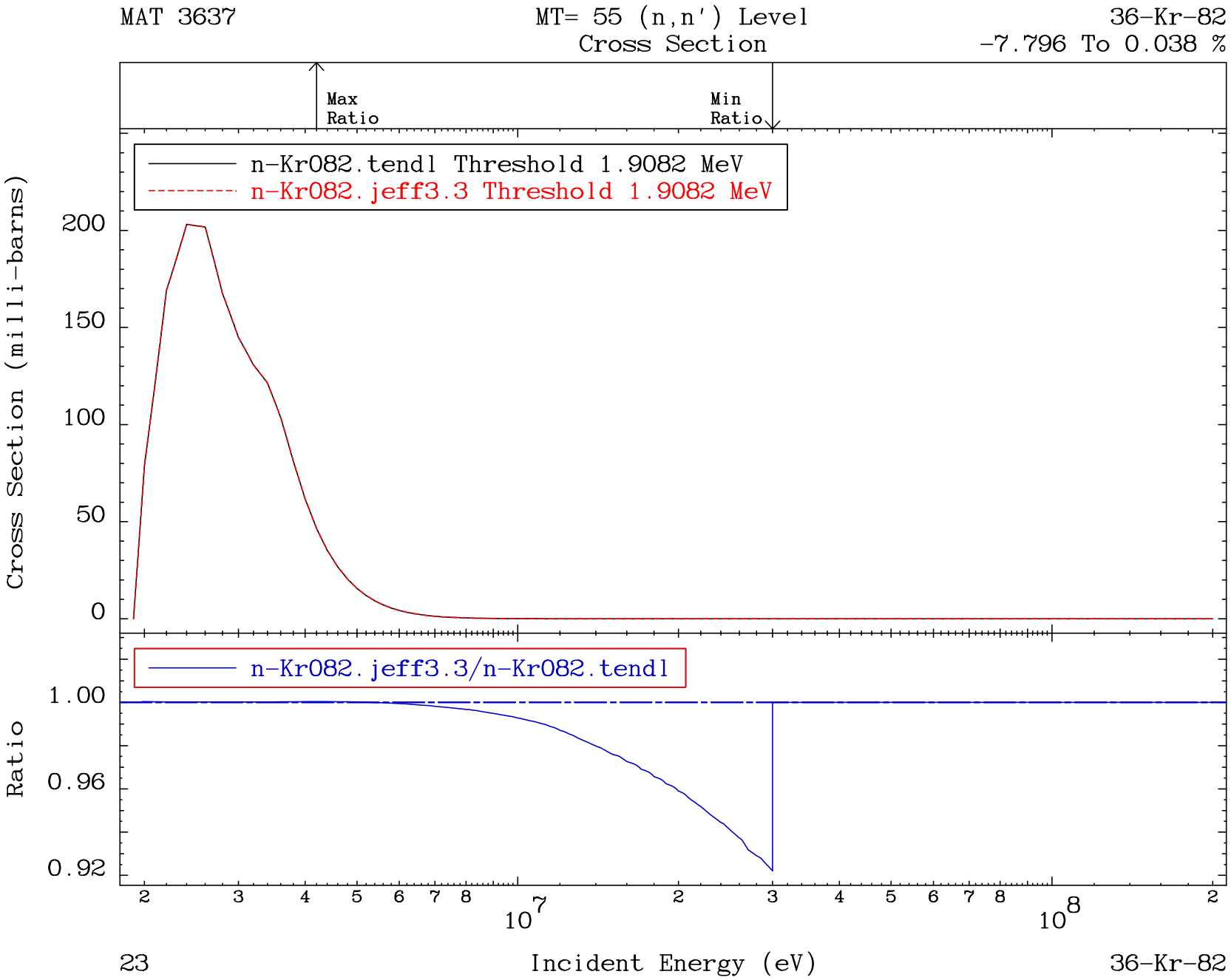

MAT 3637
(n,n') p α
Cross Section
36-Kr-82
0.000 To 8167. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 16.670 MeV
n-Kr082.jeff3.3 Threshold 16.590 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
36-Kr-82

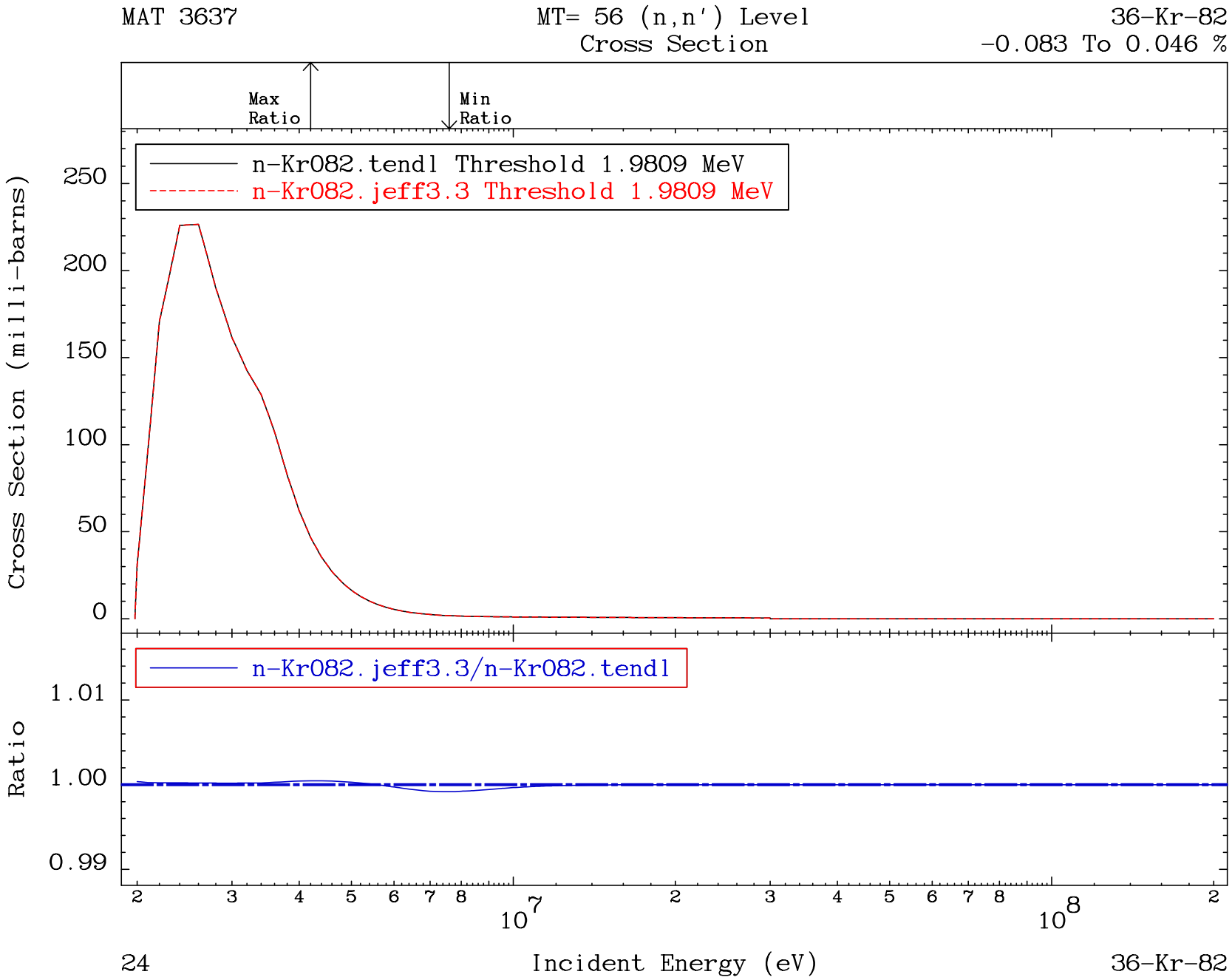

MAT 3637
MT= 51 (n,n') Level
Cross Section
36-Kr-82
-0.002 To 0.094 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 786.08 keV
n-Kr082.jeff3.3 Threshold 786.08 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6 10^7 10^8
19
Incident Energy (eV)
36-Kr-82

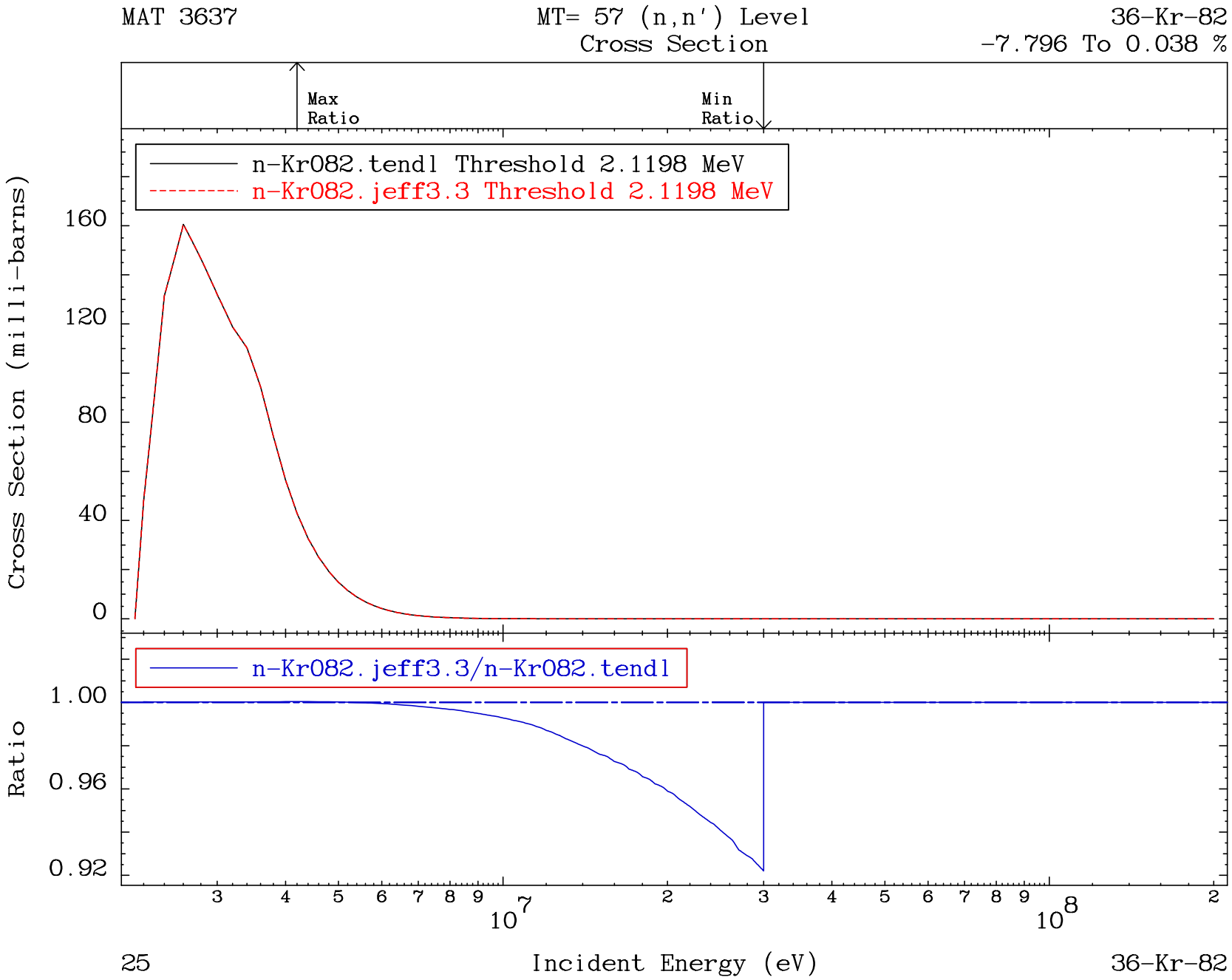

MAT 3637
MT= 52 (n,n') Level
Cross Section
36-Kr-82
-0.021 To 0.037 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 1.4931 MeV
n-Kr082.jeff3.3 Threshold 1.4931 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
36-Kr-82

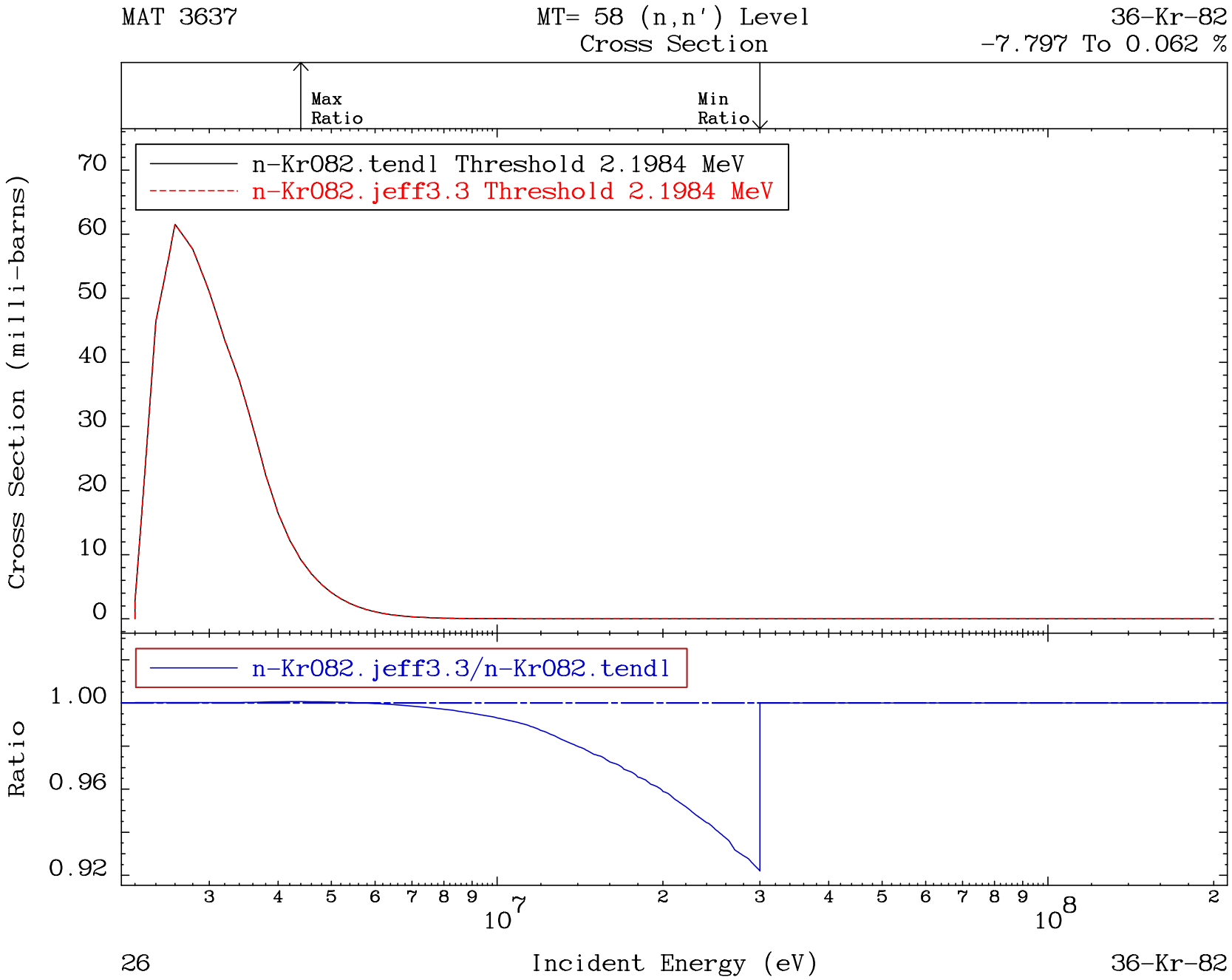

MAT 3637
MT= 53 (n,n') Level
Cross Section
36-Kr-82
-0.007 To 0.033 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 1.5059 MeV
n-Kr082.jeff3.3 Threshold 1.5059 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
36-Kr-82

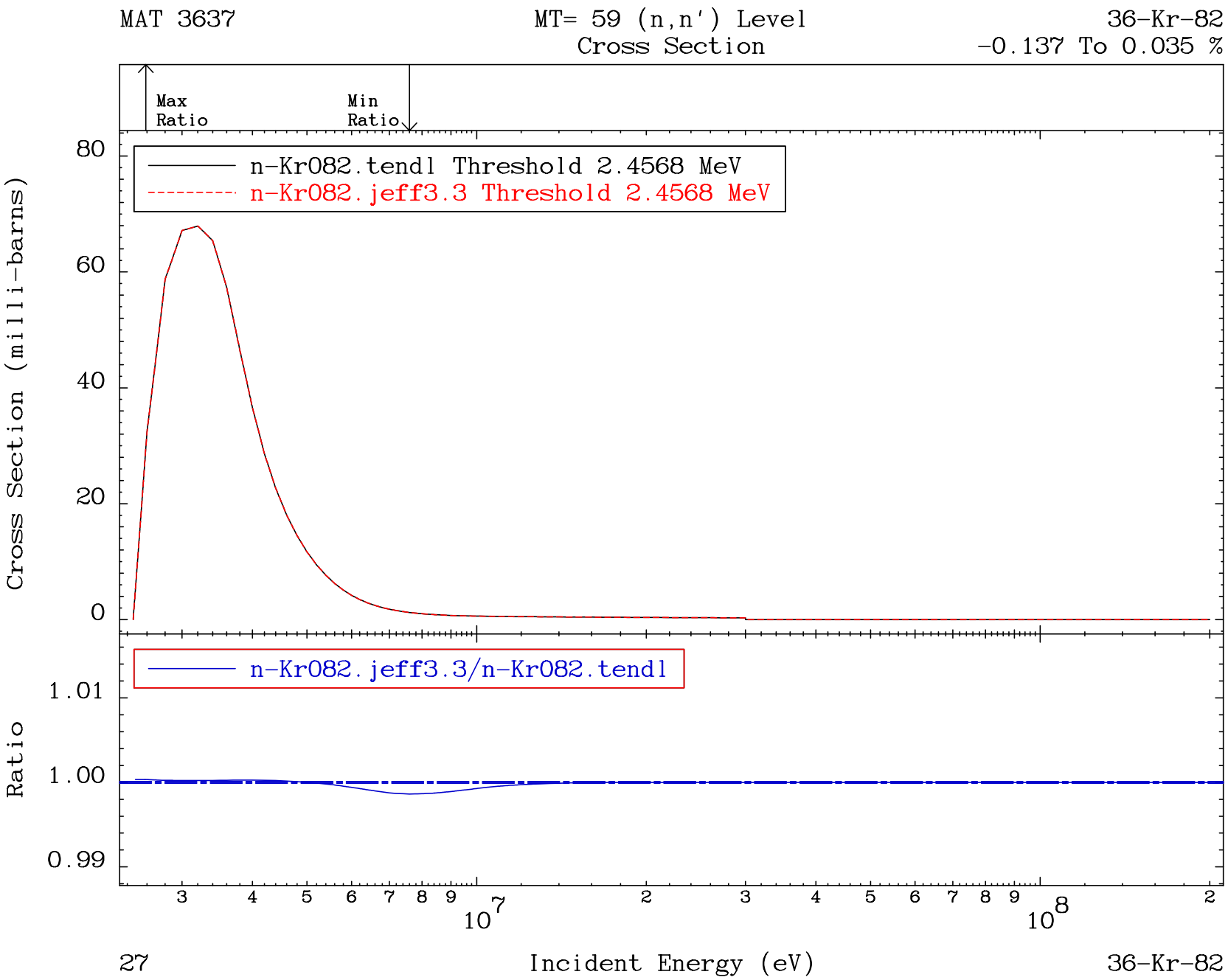

MAT 3637
MT= 54 (n,n') Level
Cross Section
36-Kr-82
-0.027 To 0.050 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 1.8430 MeV
n-Kr082.jeff3.3 Threshold 1.8430 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
36-Kr-82

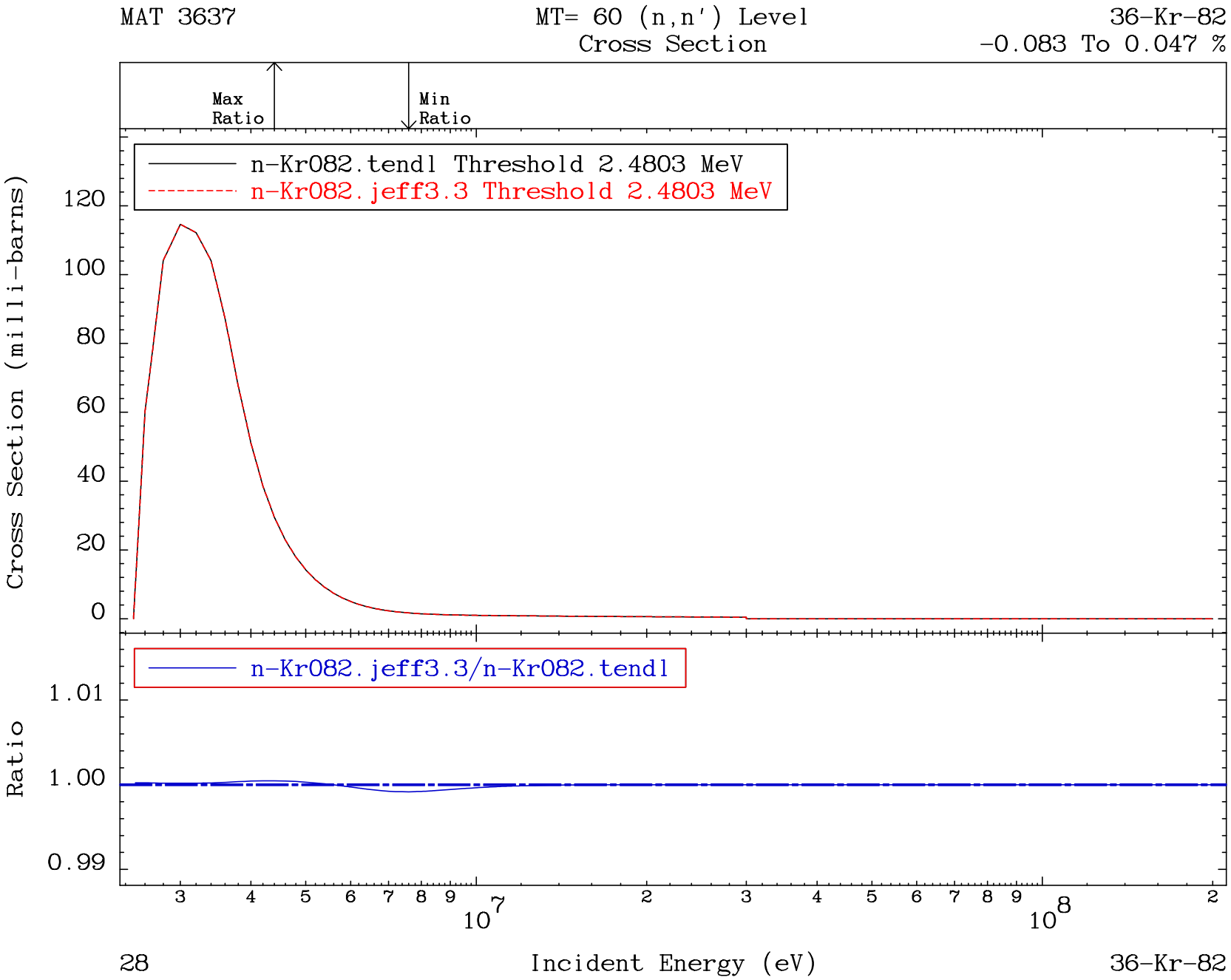

MAT 3637
MT= 55 (n,n') Level
Cross Section
36-Kr-82
-7.796 To 0.038 %
Max
Ratio
Min
Ratio
n-Kr082.tendl Threshold 1.9082 MeV
n-Kr082.jeff3.3 Threshold 1.9082 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
36-Kr-82

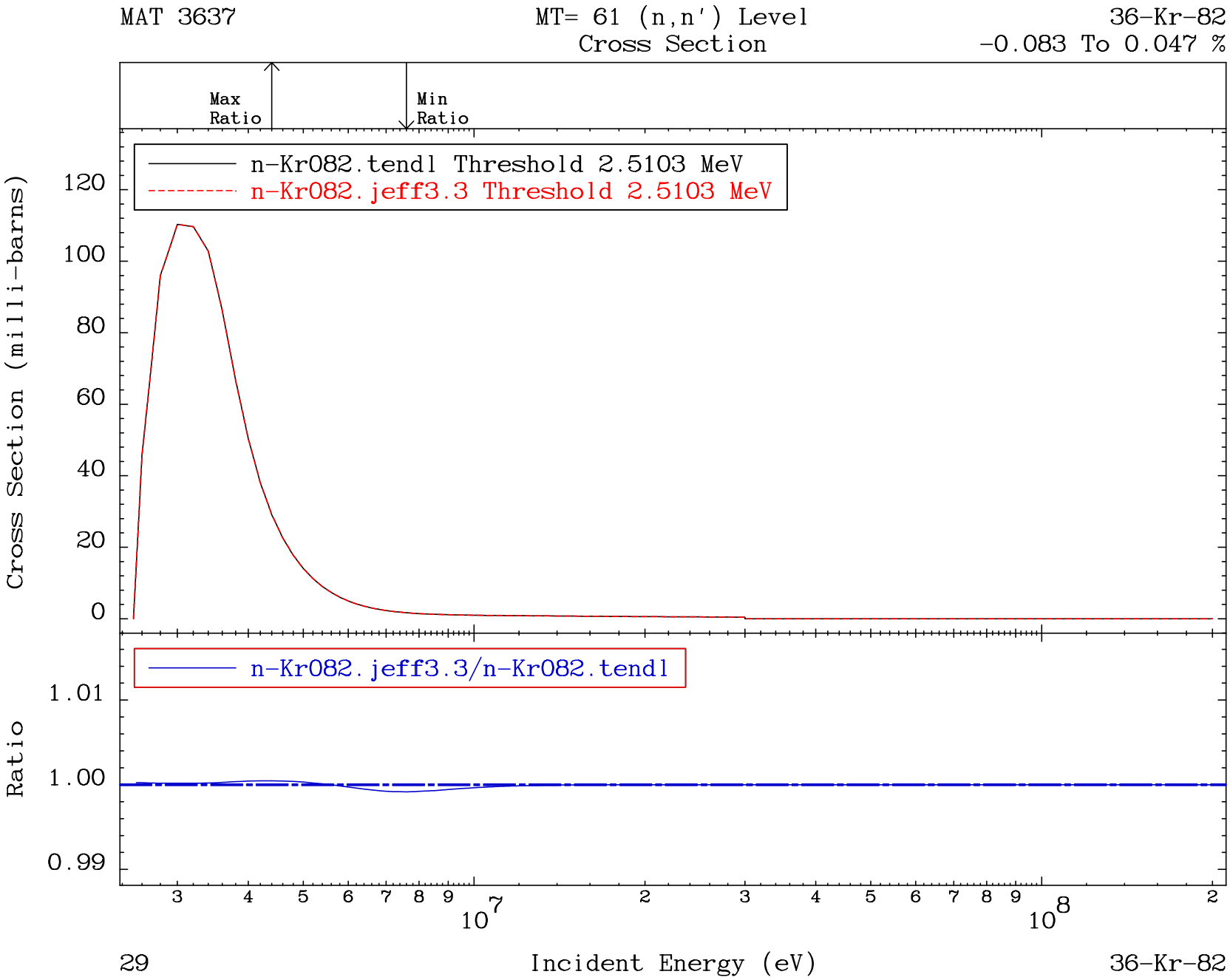

MAT 3637
MT= 56 (n,n') Level
Cross Section
36-Kr-82
-0.083 To 0.046 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 1.9809 MeV
n-Kr082.jeff3.3 Threshold 1.9809 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
36-Kr-82

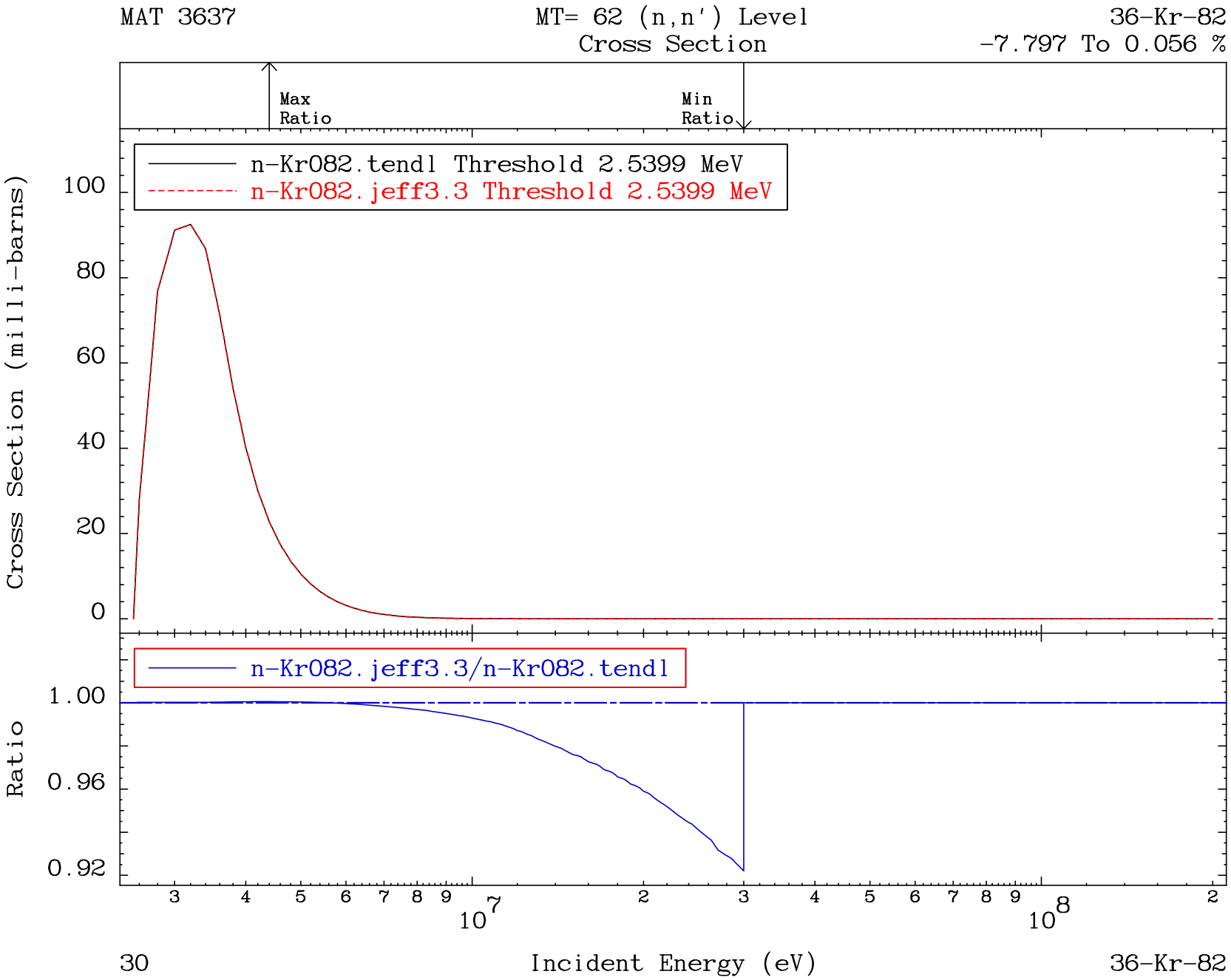

MAT 3637
MT= 57 (n,n') Level
Cross Section
36-Kr-82
-7.796 To 0.038 %
Max
Ratio
Min
Ratio
n-Kr082.tendl Threshold 2.1198 MeV
n-Kr082.jeff3.3 Threshold 2.1198 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
25
Incident Energy (eV)
36-Kr-82

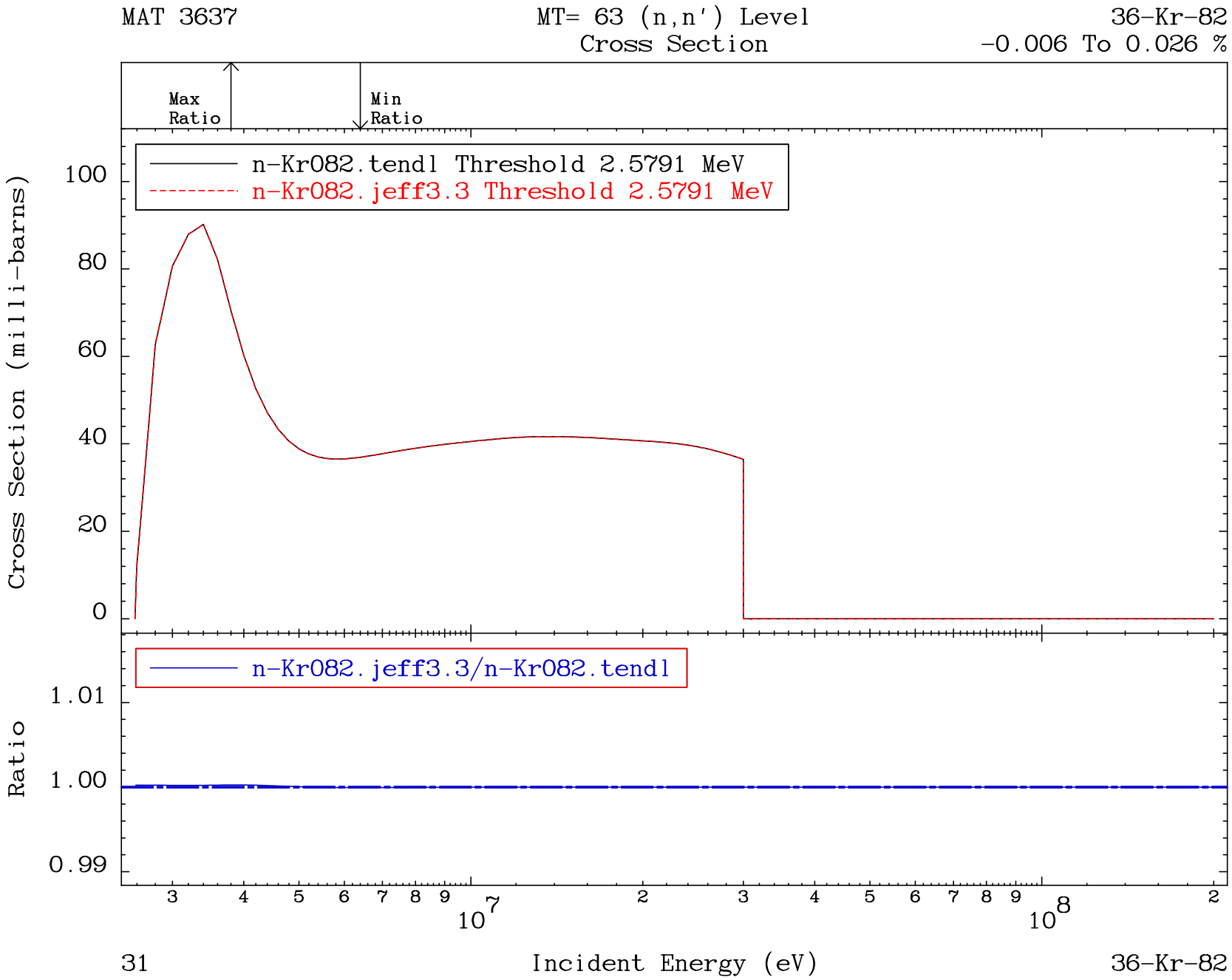

MAT 3637
MT= 58 (n,n') Level
Cross Section
36-Kr-82
-7.797 To 0.062 %
Max
Ratio
Min
Ratio
n-Kr082.tendl Threshold 2.1984 MeV
n-Kr082.jeff3.3 Threshold 2.1984 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
36-Kr-82

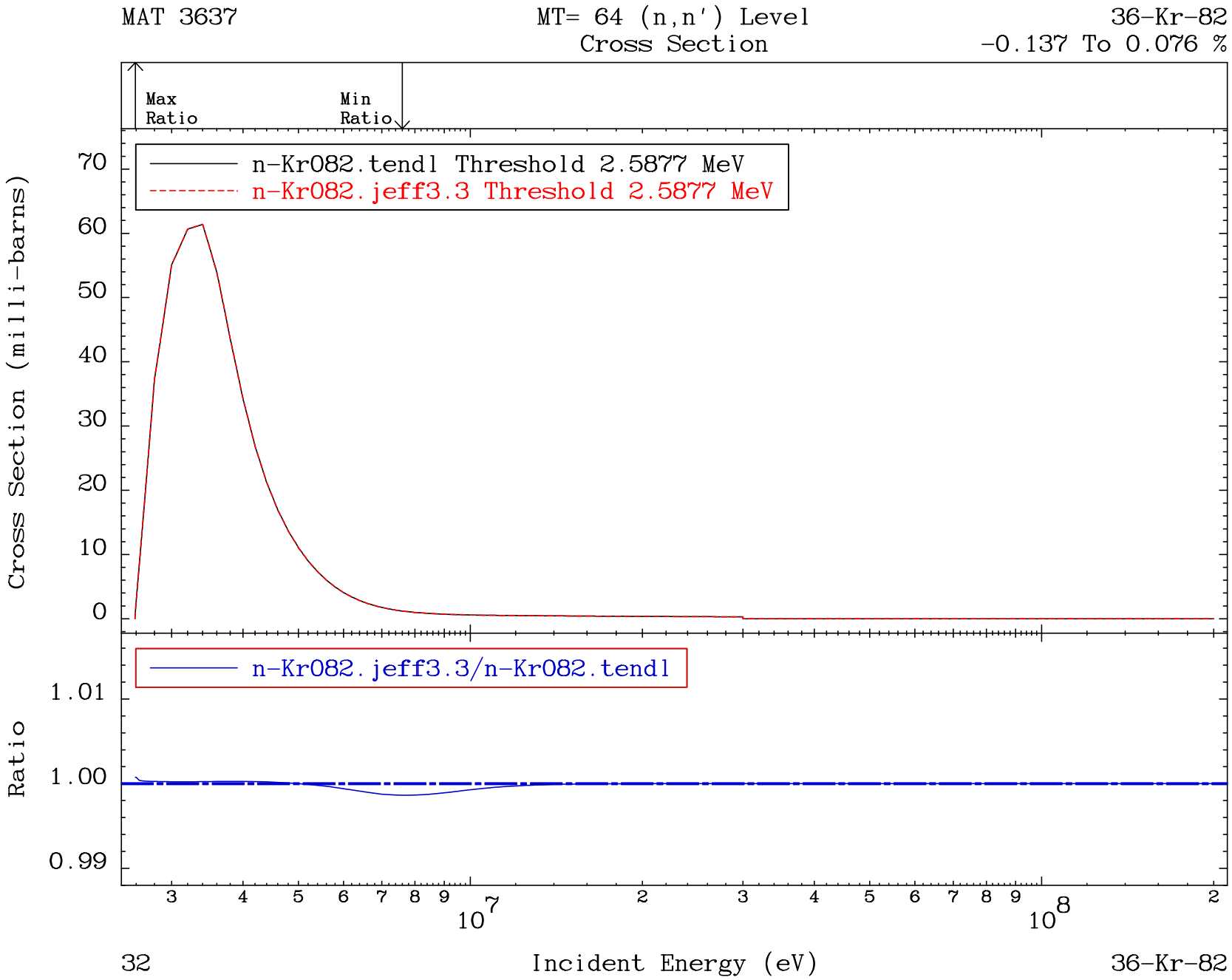

MAT 3637
MT= 59 (n,n') Level
Cross Section
36-Kr-82
-0.137 To 0.035 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.4568 MeV
n-Kr082.jeff3.3 Threshold 2.4568 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
27
Incident Energy (eV)
36-Kr-82

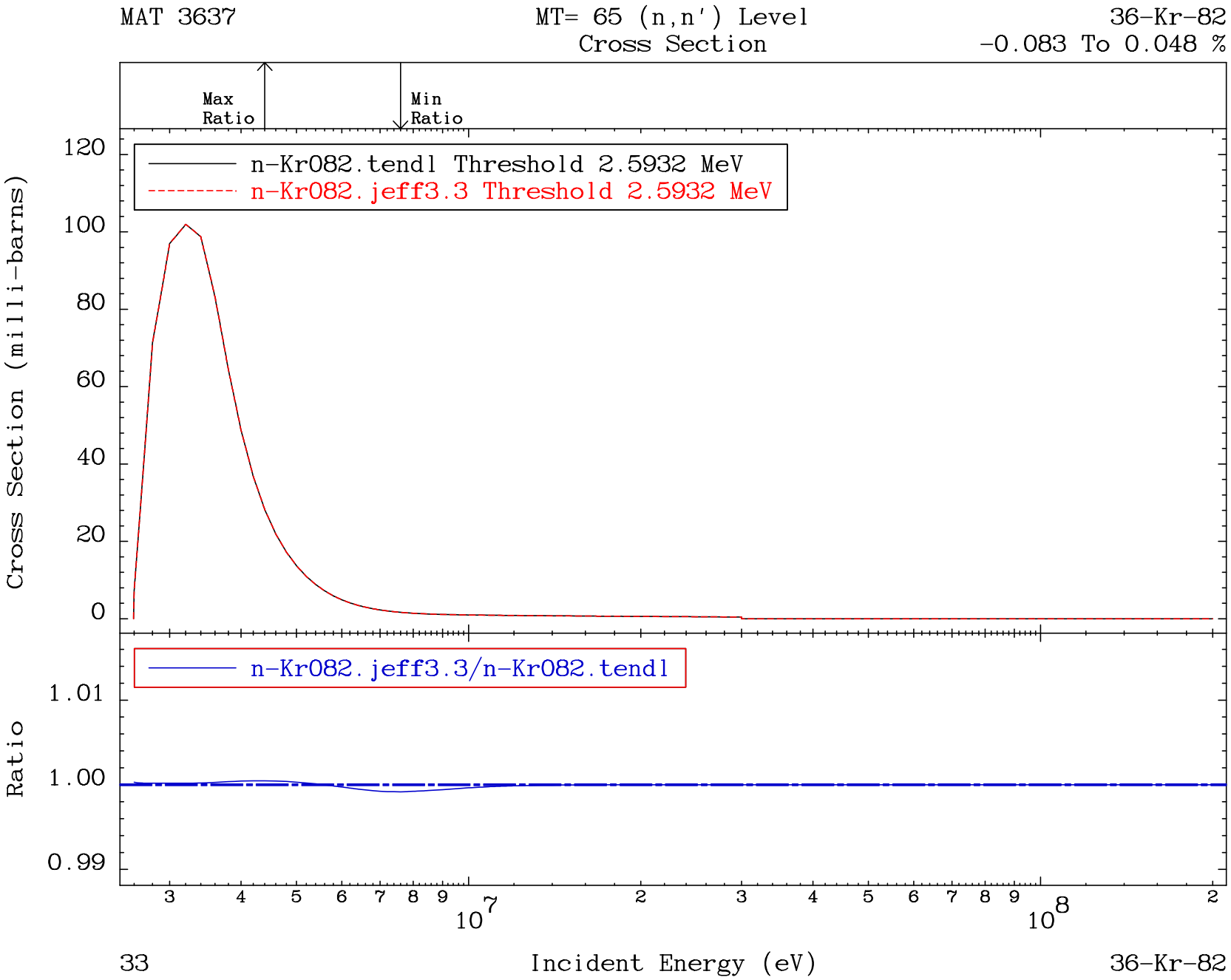

MAT 3637
MT= 60 (n,n') Level
Cross Section
36-Kr-82
-0.083 To 0.047 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.4803 MeV
n-Kr082.jeff3.3 Threshold 2.4803 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
36-Kr-82

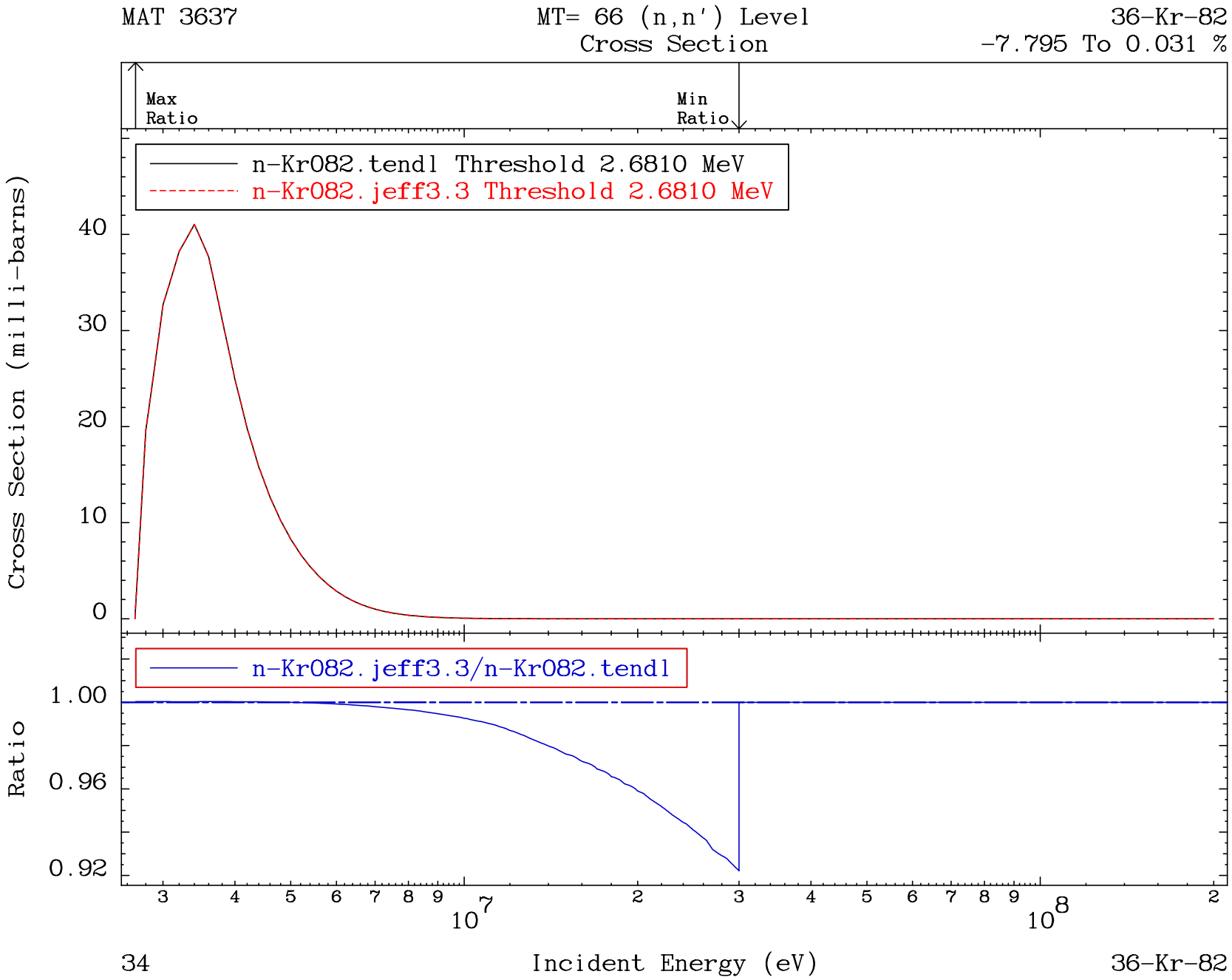

MAT 3637
MT= 61 (n,n') Level
Cross Section
36-Kr-82
-0.083 To 0.047 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.5103 MeV
n-Kr082.jeff3.3 Threshold 2.5103 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
36-Kr-82

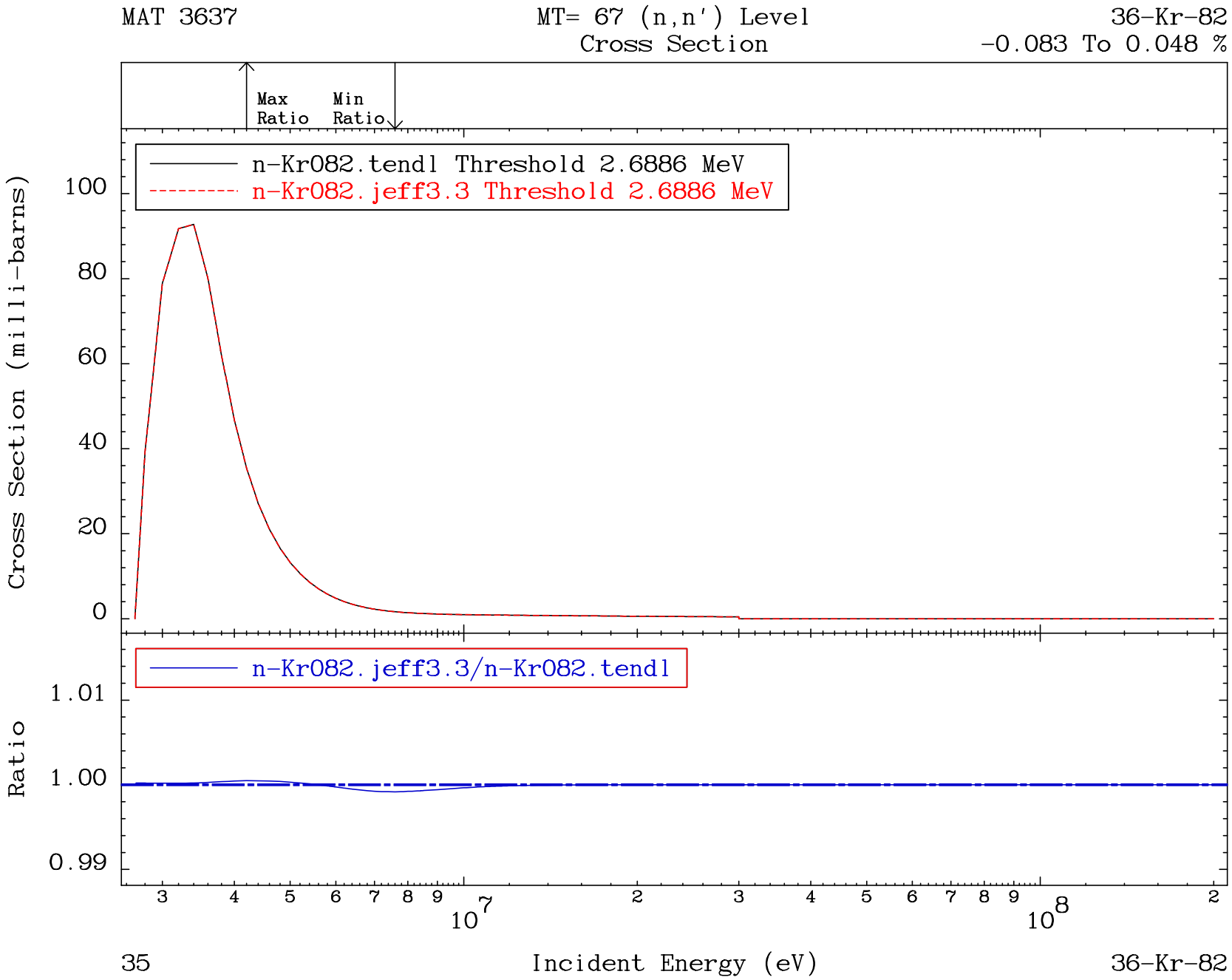

MAT 3637
MT= 62 (n,n') Level
Cross Section
36-Kr-82
-7.797 To 0.056 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.5399 MeV
n-Kr082.jeff3.3 Threshold 2.5399 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
36-Kr-82

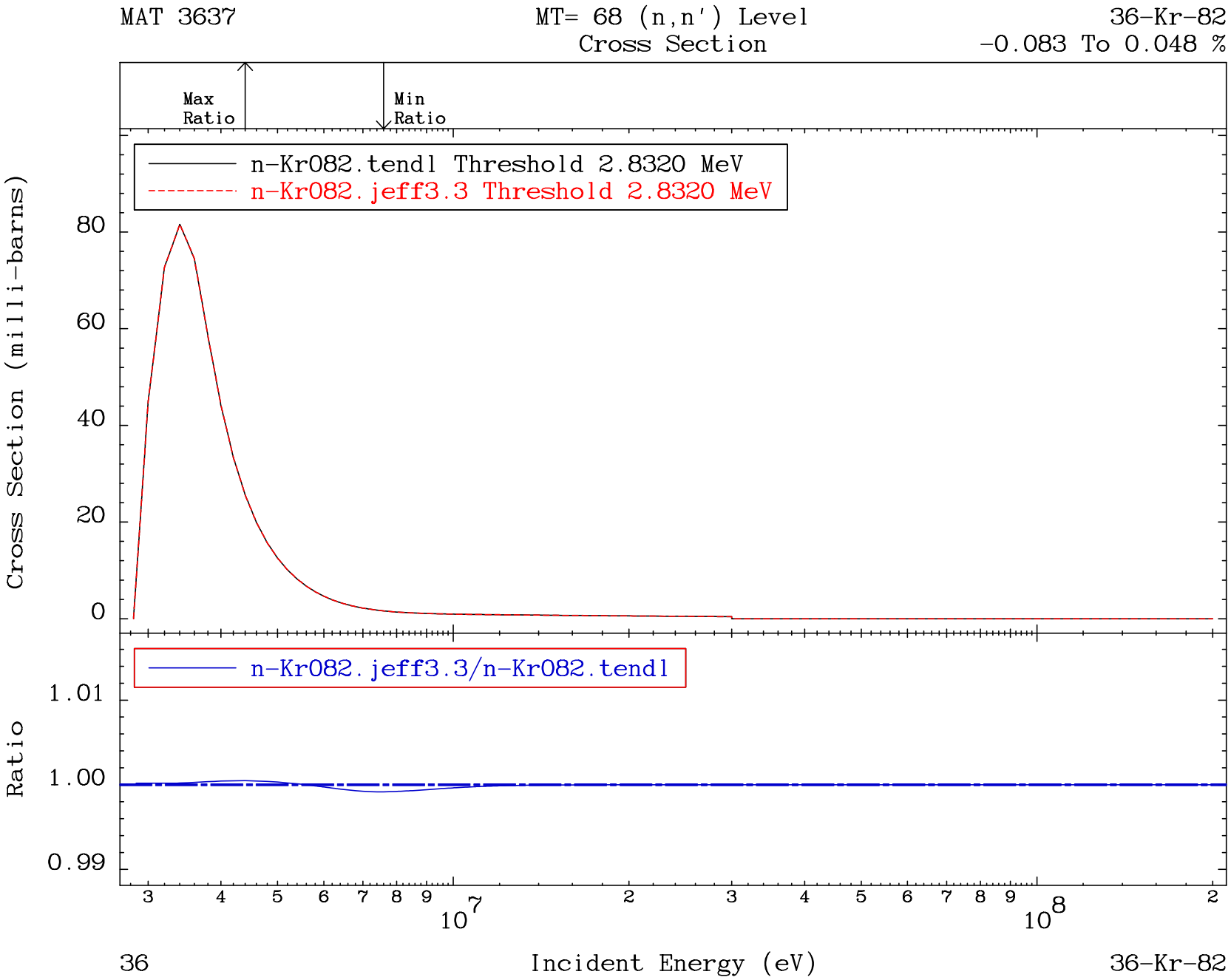

MAT 3637
MT= 63 (n,n') Level
Cross Section
36-Kr-82
-0.006 To 0.026 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.5791 MeV
n-Kr082.jeff3.3 Threshold 2.5791 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
36-Kr-82

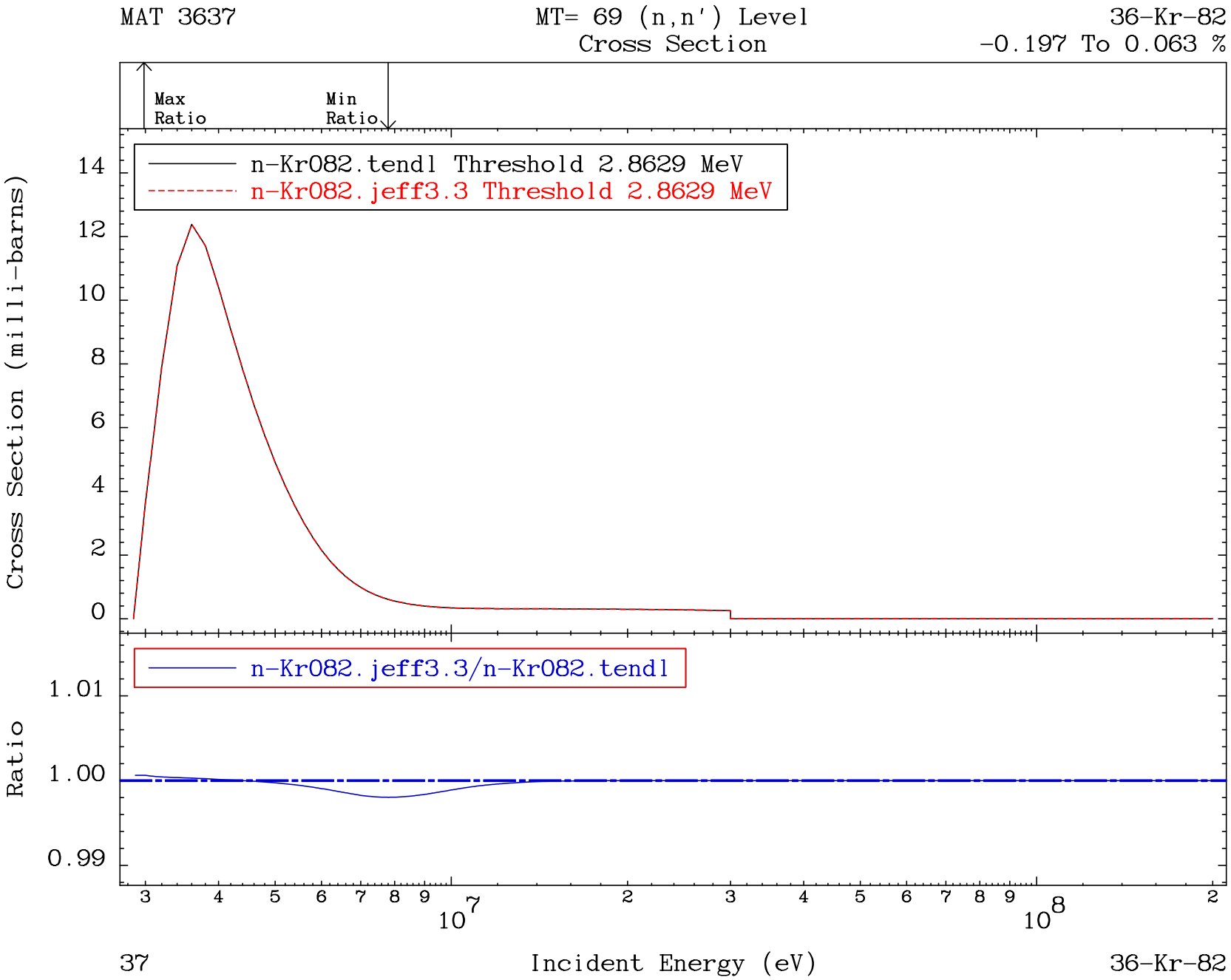

MAT 3637
MT= 64 (n,n') Level
Cross Section
36-Kr-82
-0.137 To 0.076 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.5877 MeV
n-Kr082.jeff3.3 Threshold 2.5877 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
32
Incident Energy (eV)
36-Kr-82

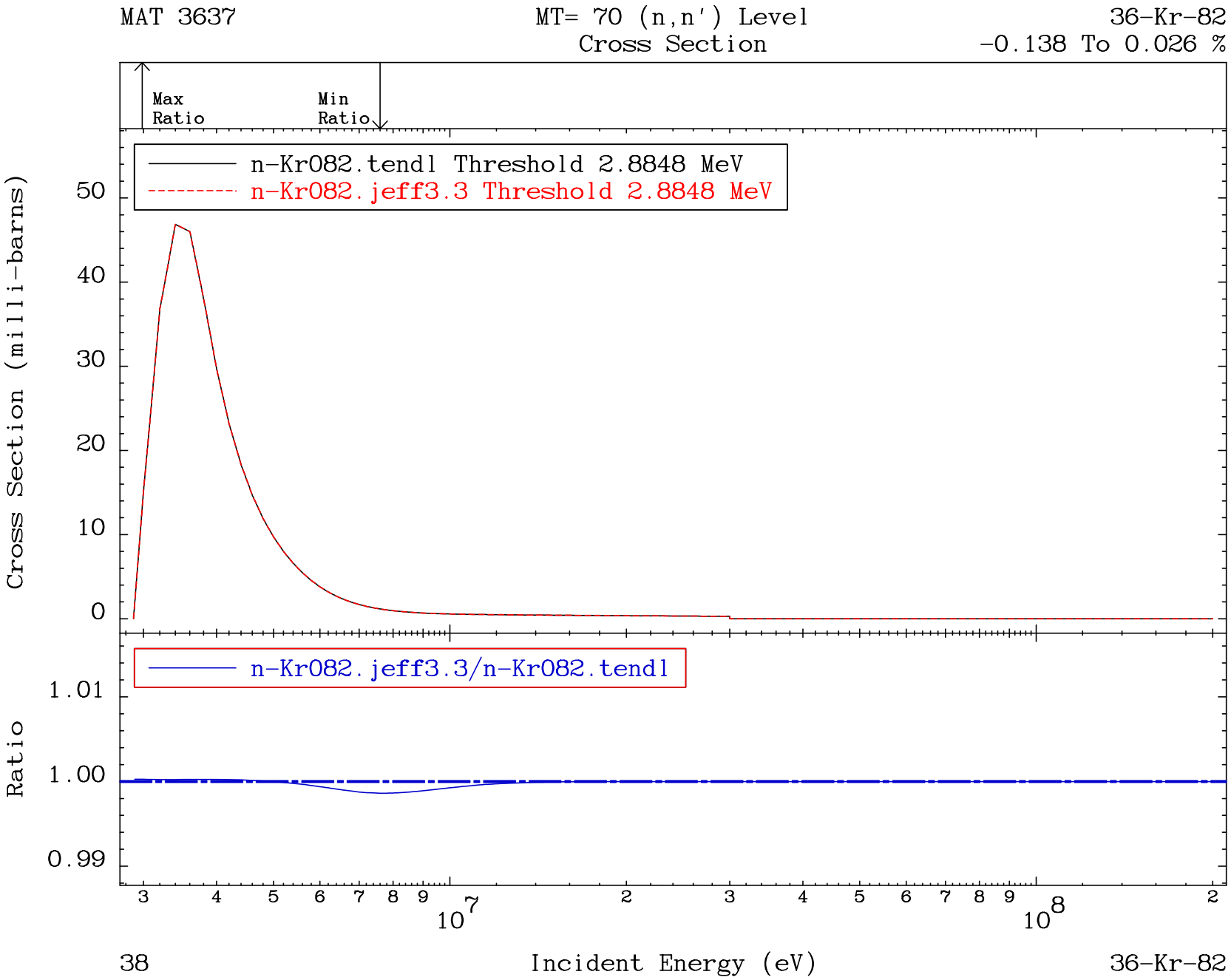

MAT 3637
MT= 65 (n,n') Level
Cross Section
36-Kr-82
-0.083 To 0.048 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.5932 MeV
n-Kr082.jeff3.3 Threshold 2.5932 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
36-Kr-82

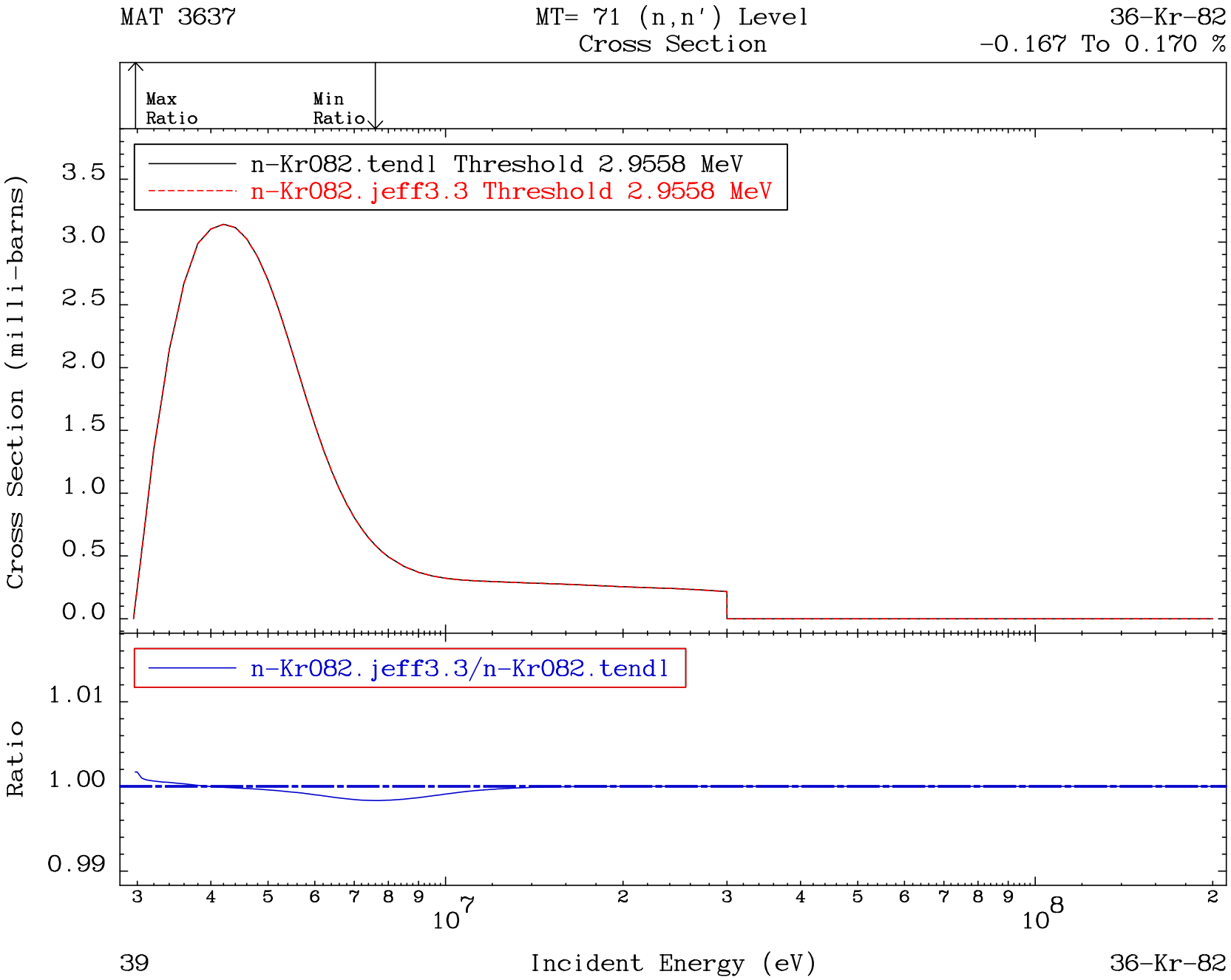

MAT 3637
MT= 66 (n,n') Level
Cross Section
36-Kr-82
-7.795 To 0.031 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.6810 MeV
n-Kr082.jeff3.3 Threshold 2.6810 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
36-Kr-82

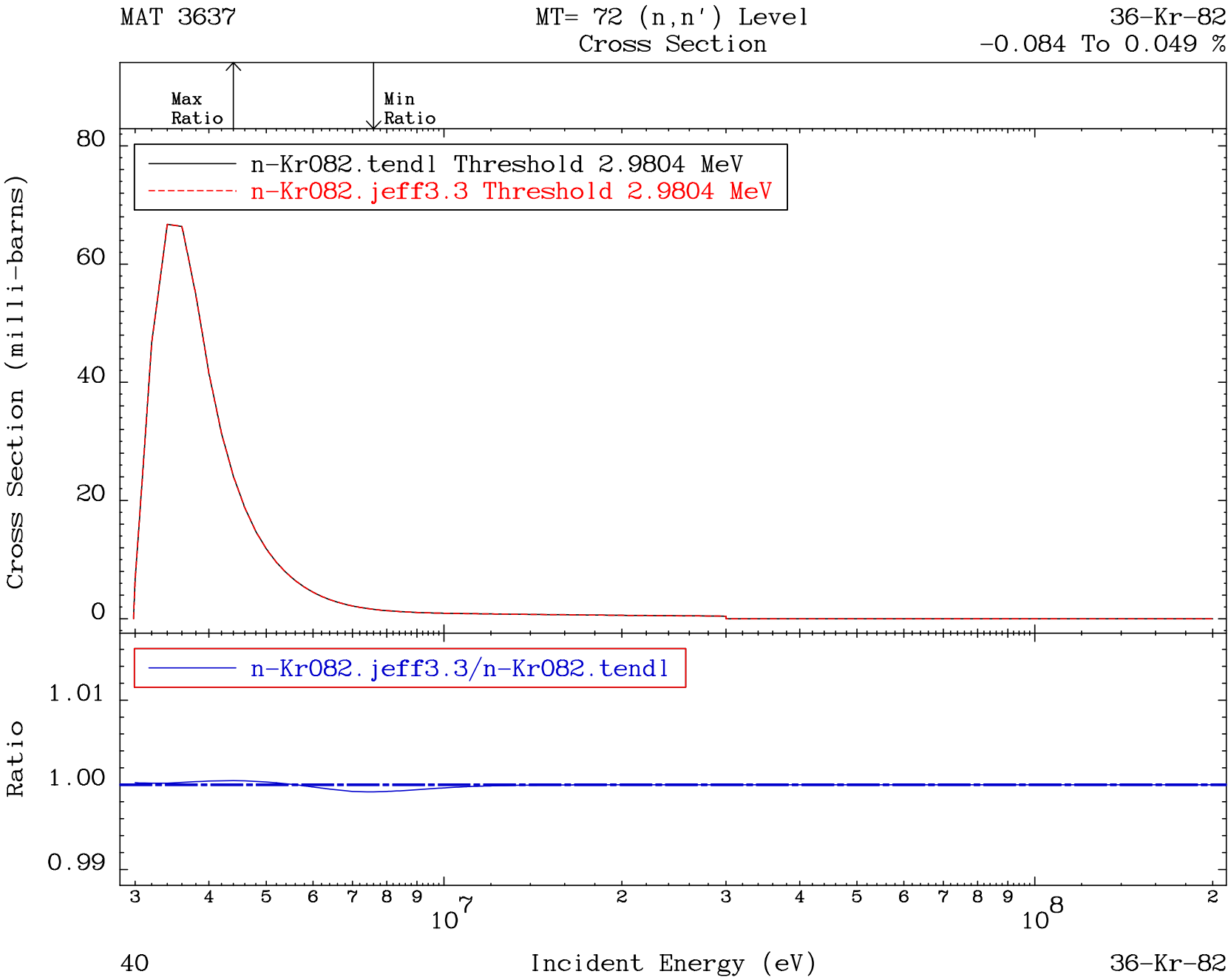

MAT 3637
MT= 67 (n,n') Level
Cross Section
36-Kr-82
-0.083 To 0.048 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.6886 MeV
n-Kr082.jeff3.3 Threshold 2.6886 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
36-Kr-82

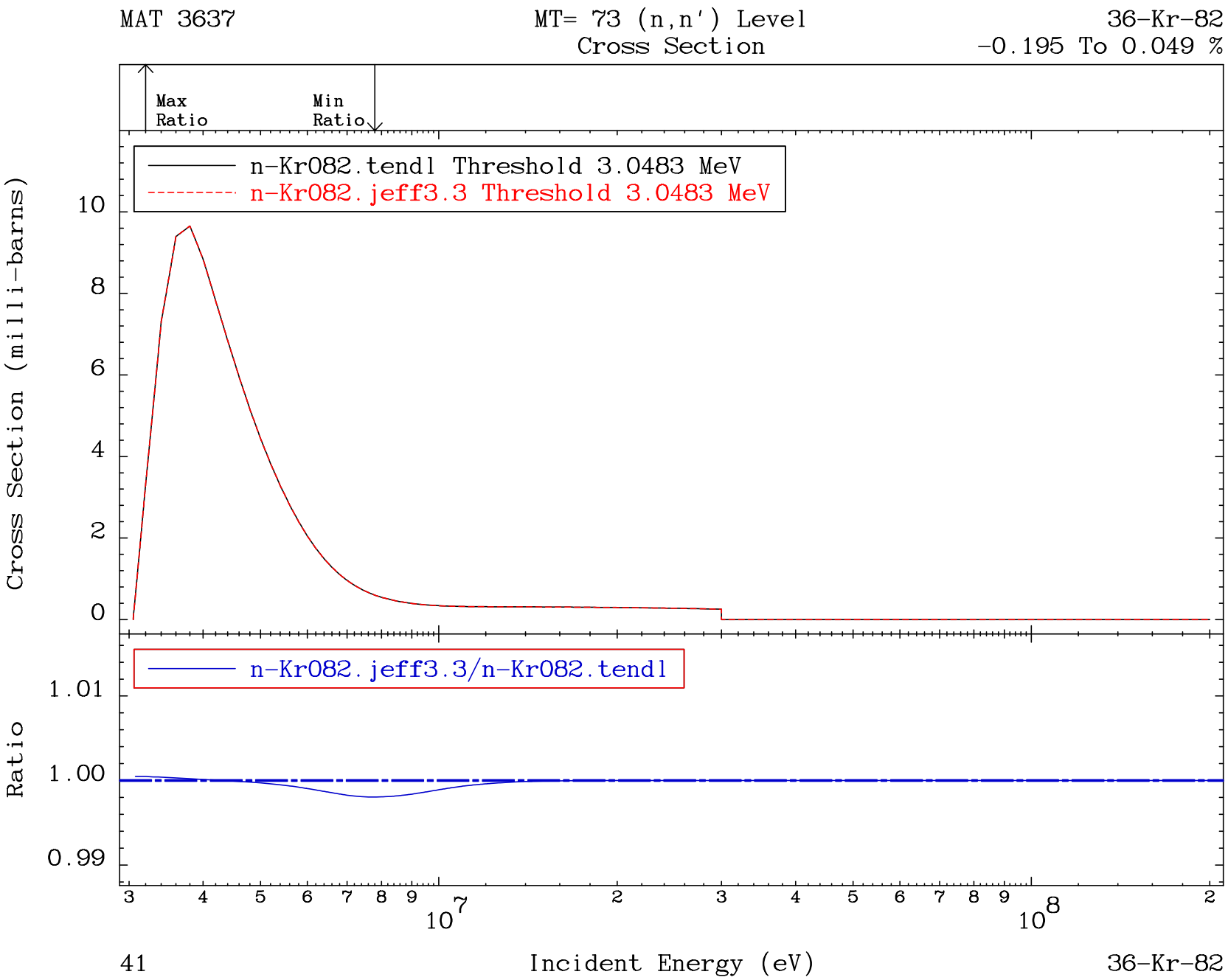

MAT 3637
MT= 68 (n,n') Level
Cross Section
36-Kr-82
-0.083 To 0.048 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.8320 MeV
n-Kr082.jeff3.3 Threshold 2.8320 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
36-Kr-82

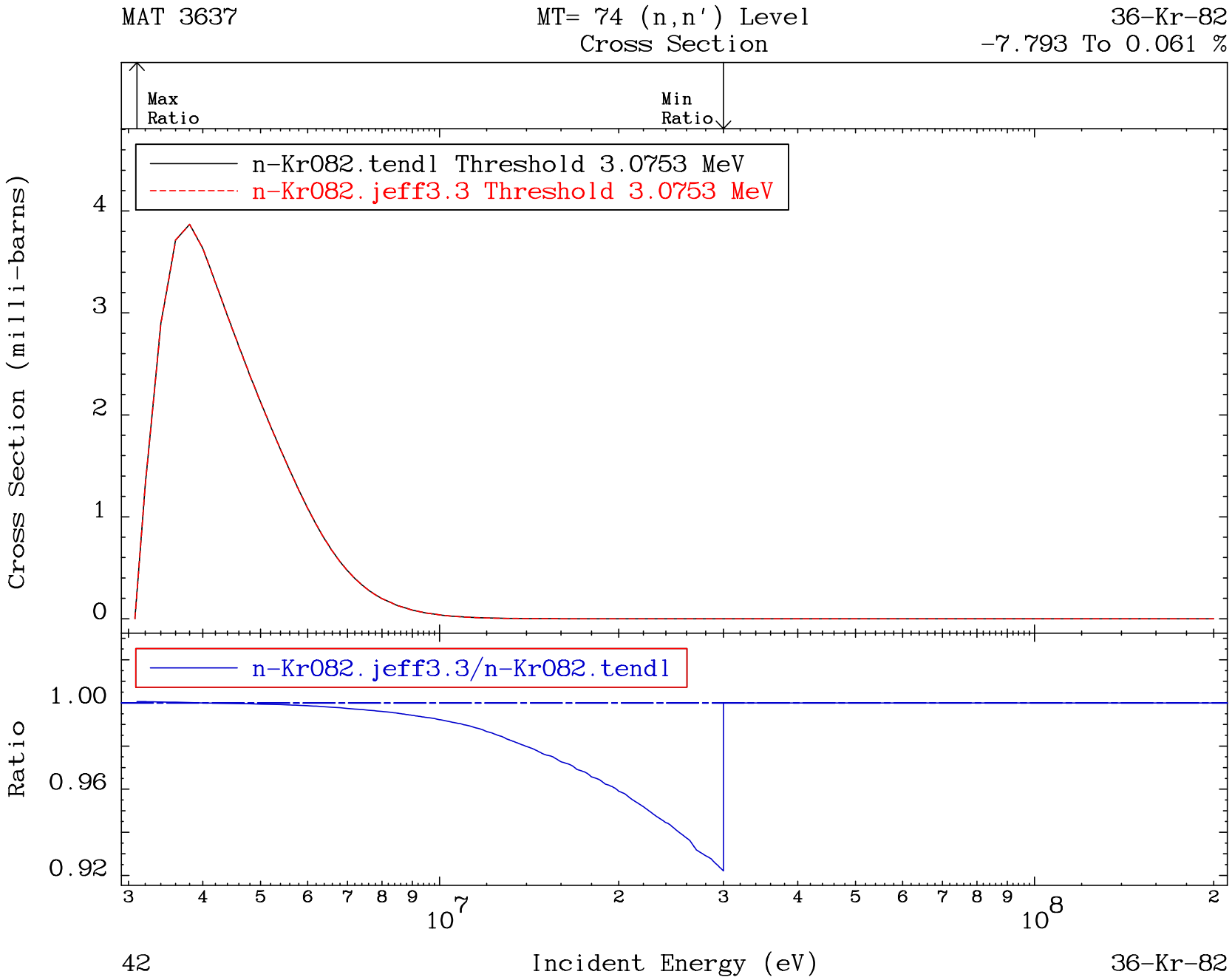

MAT 3637
MT= 69 (n,n') Level
Cross Section
36-Kr-82
-0.197 To 0.063 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.8629 MeV
n-Kr082.jeff3.3 Threshold 2.8629 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
36-Kr-82

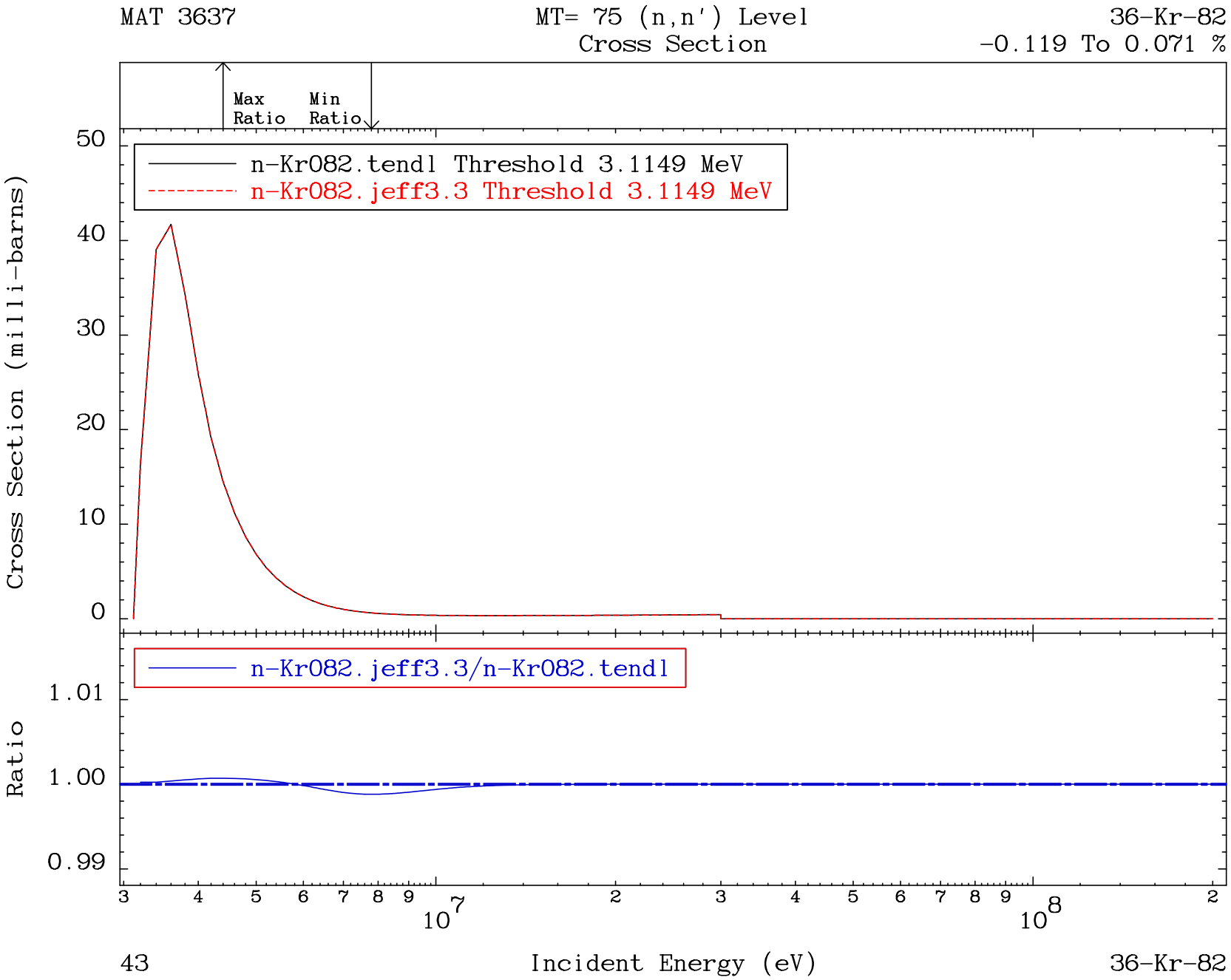

MAT 3637
MT= 70 (n,n') Level
Cross Section
36-Kr-82
-0.138 To 0.026 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.8848 MeV
n-Kr082.jeff3.3 Threshold 2.8848 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
36-Kr-82

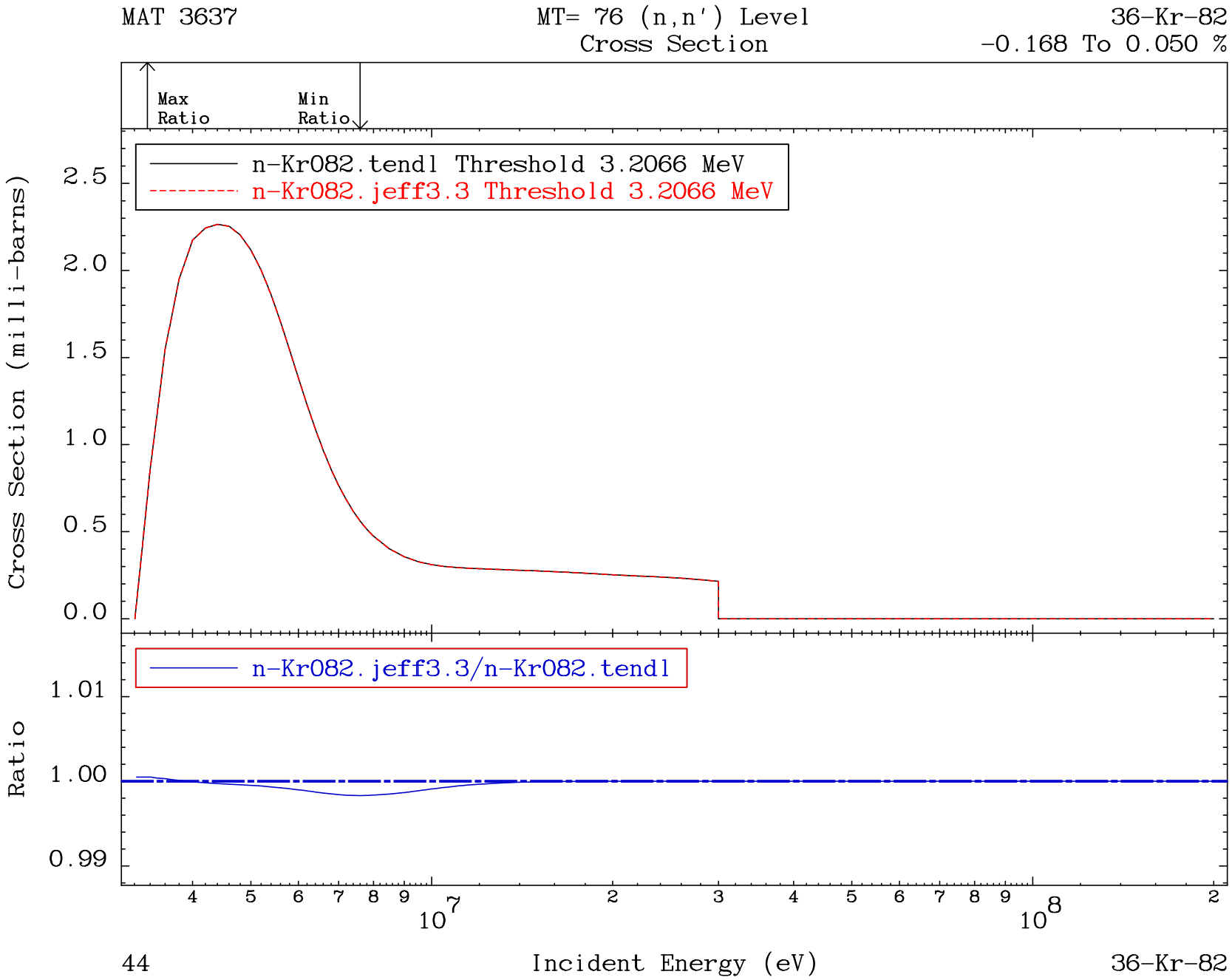

MAT 3637
MT= 71 (n,n') Level
Cross Section
36-Kr-82
-0.167 To 0.170 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.9558 MeV
n-Kr082.jeff3.3 Threshold 2.9558 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
36-Kr-82

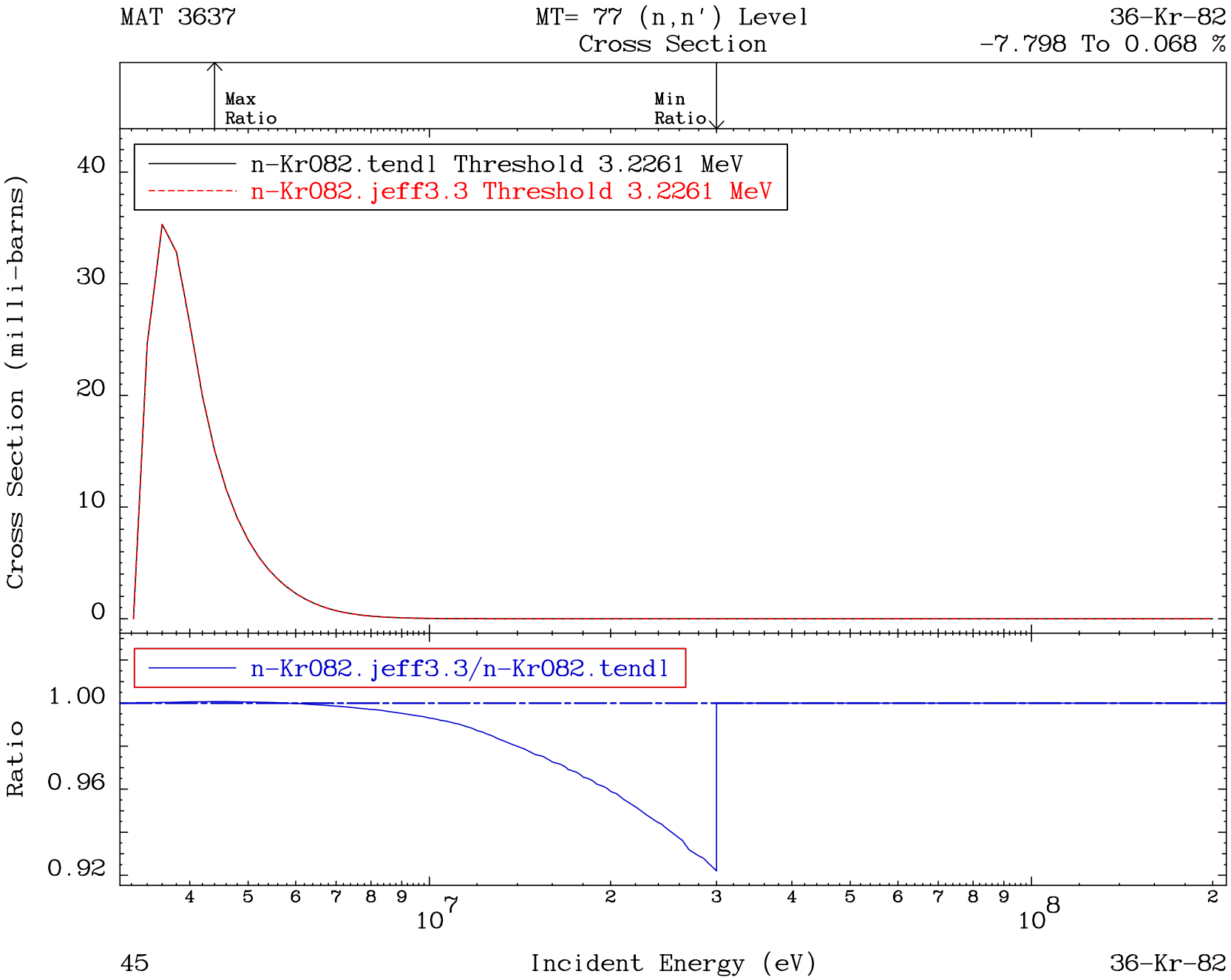

MAT 3637
MT= 72 (n,n') Level
Cross Section
36-Kr-82
-0.084 To 0.049 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 2.9804 MeV
n-Kr082.jeff3.3 Threshold 2.9804 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
36-Kr-82

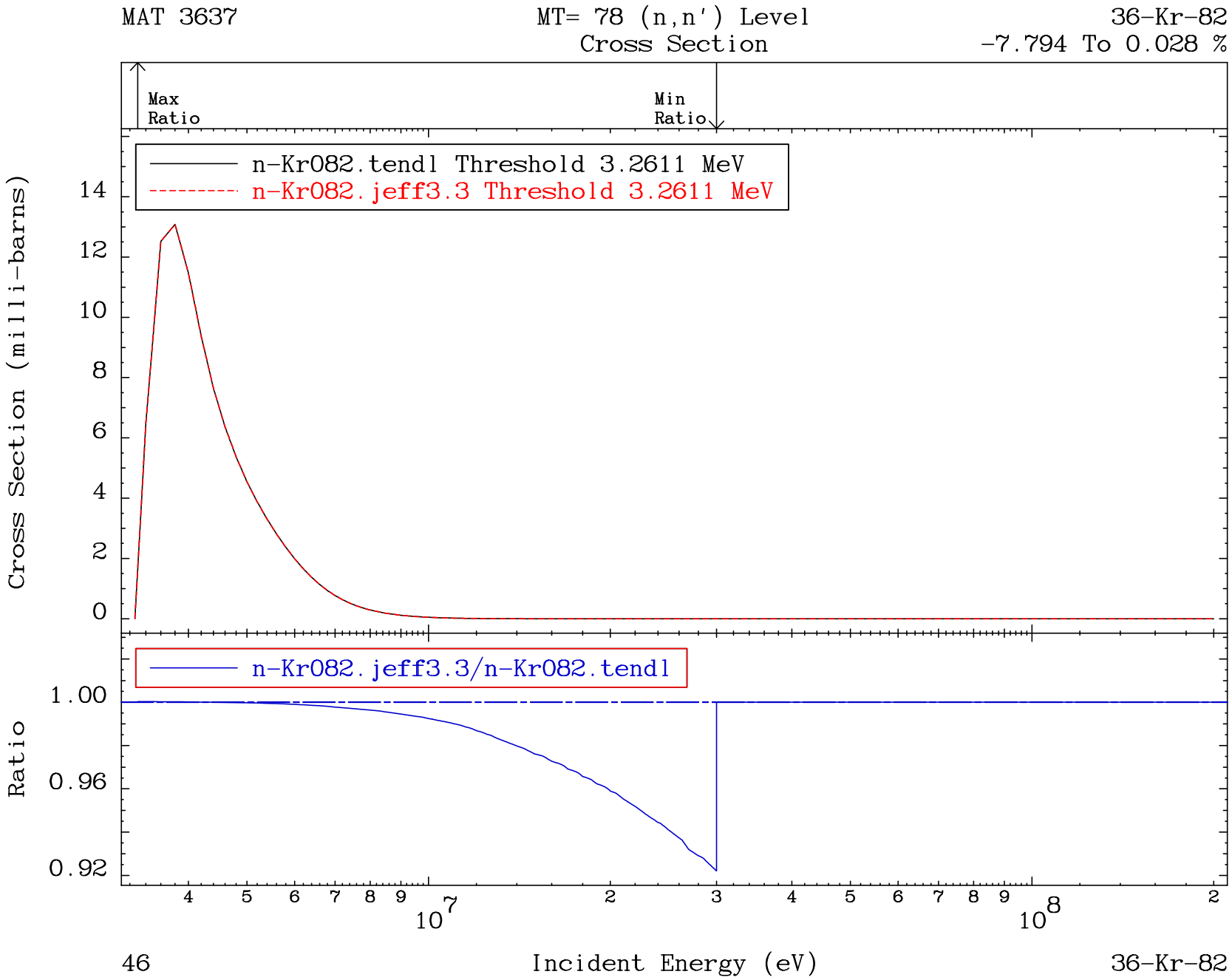

MAT 3637
MT= 73 (n,n') Level
Cross Section
36-Kr-82
-0.195 To 0.049 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.0483 MeV
n-Kr082.jeff3.3 Threshold 3.0483 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
36-Kr-82

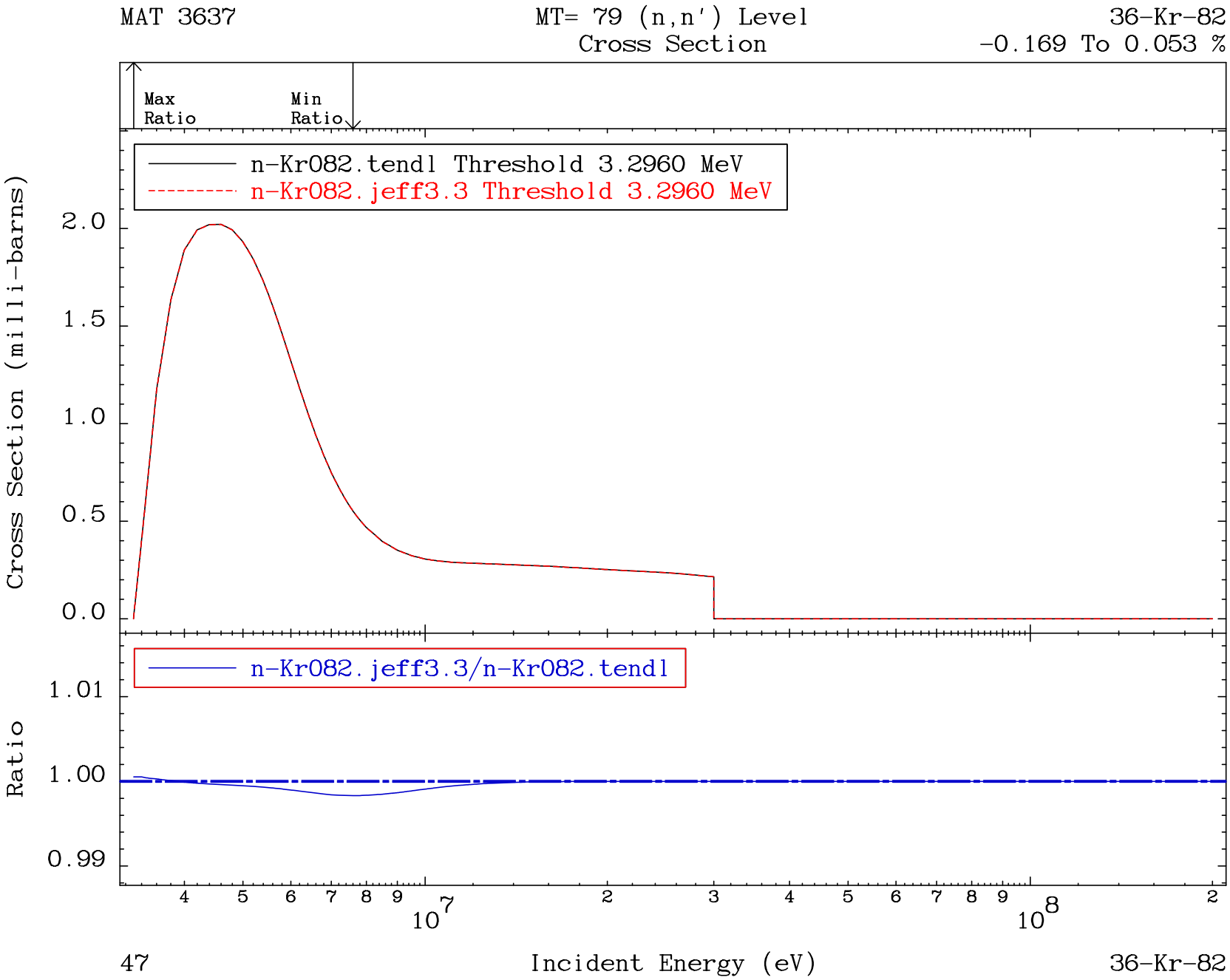

MAT 3637
MT= 74 (n,n') Level
Cross Section
36-Kr-82
-7.793 To 0.061 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.0753 MeV
n-Kr082.jeff3.3 Threshold 3.0753 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
36-Kr-82

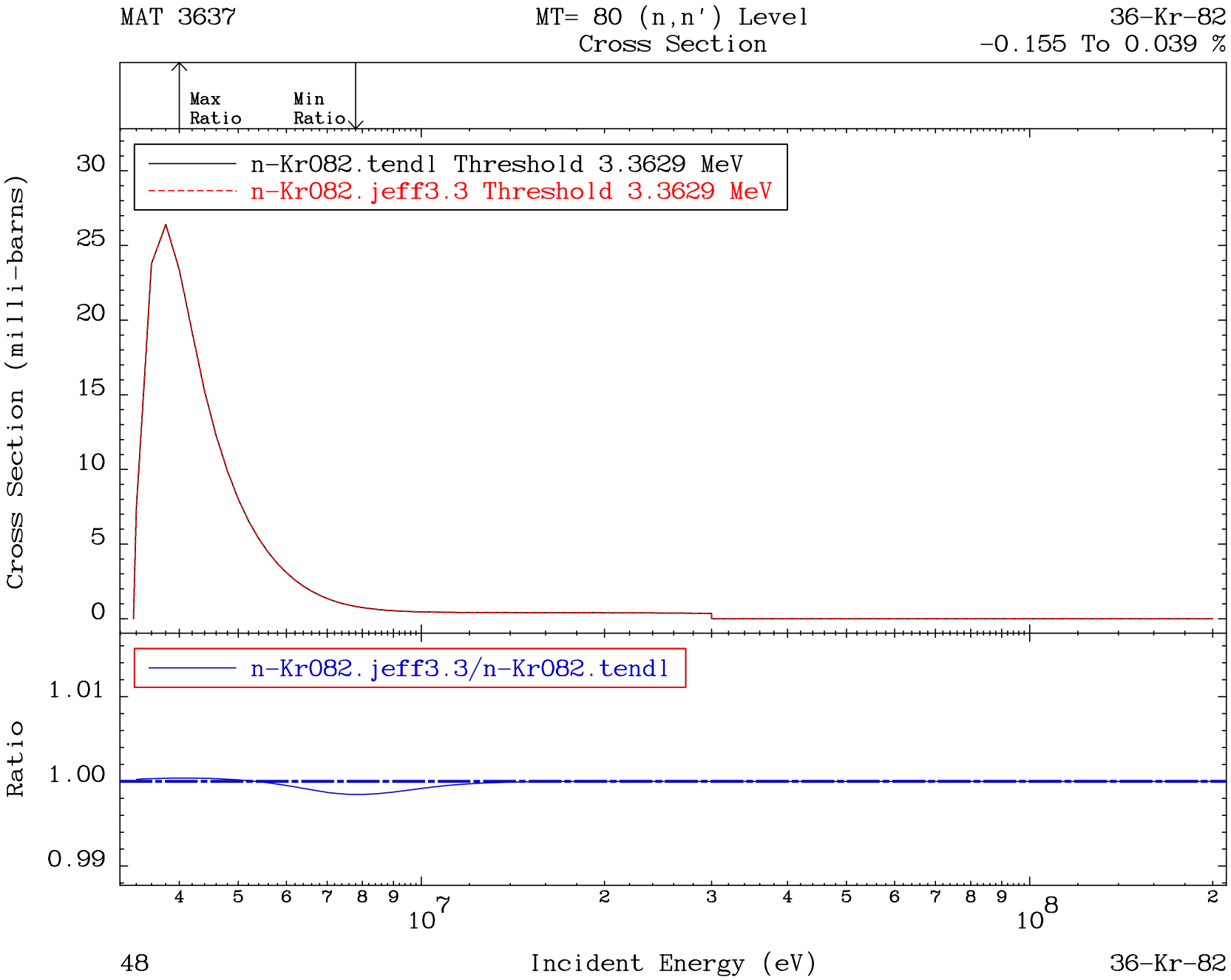

MAT 3637
MT= 75 (n,n') Level
Cross Section
36-Kr-82
-0.119 To 0.071 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.1149 MeV
n-Kr082.jeff3.3 Threshold 3.1149 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
36-Kr-82

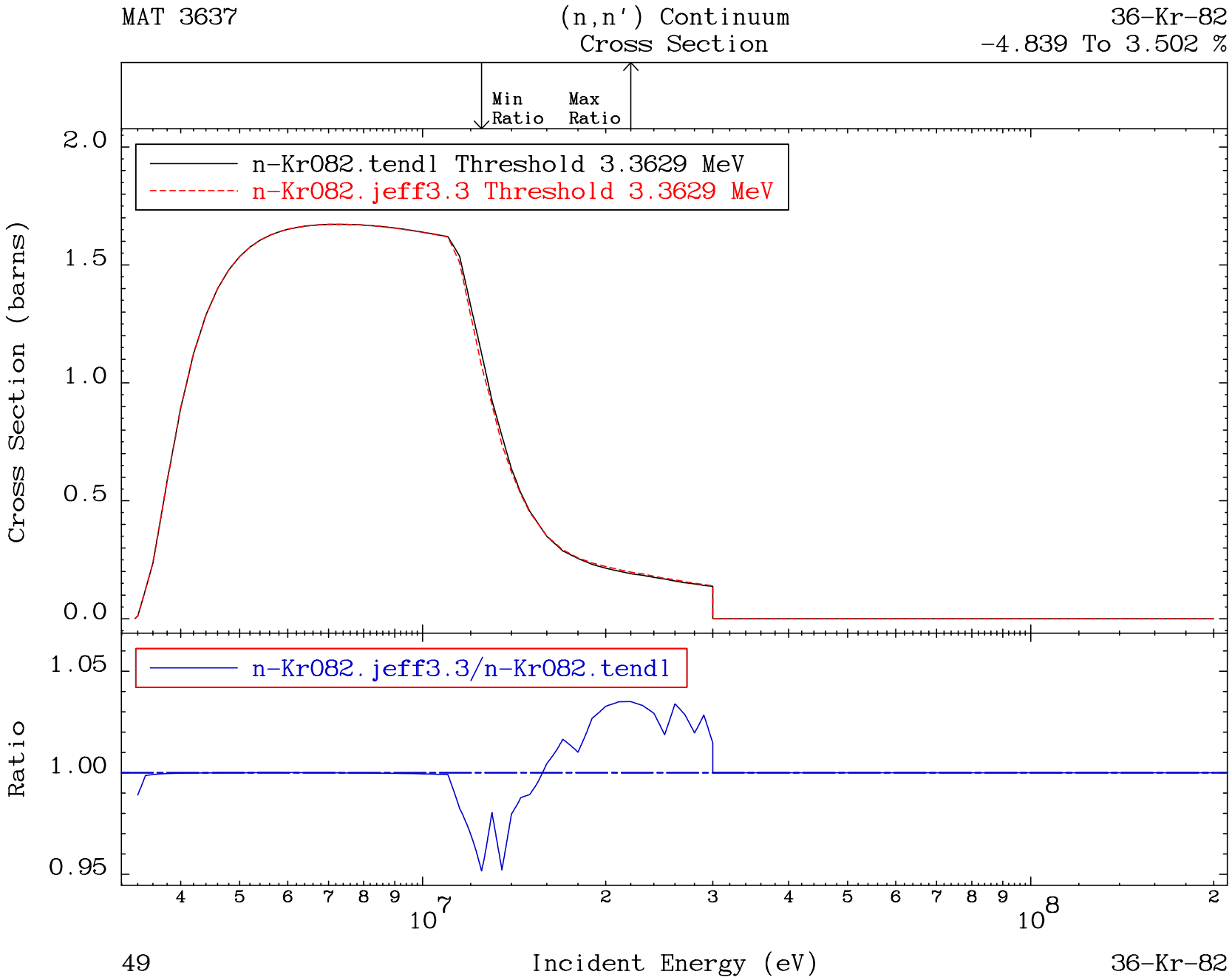

MAT 3637
MT= 76 (n,n') Level
Cross Section
36-Kr-82
-0.168 To 0.050 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.2066 MeV
n-Kr082.jeff3.3 Threshold 3.2066 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
36-Kr-82

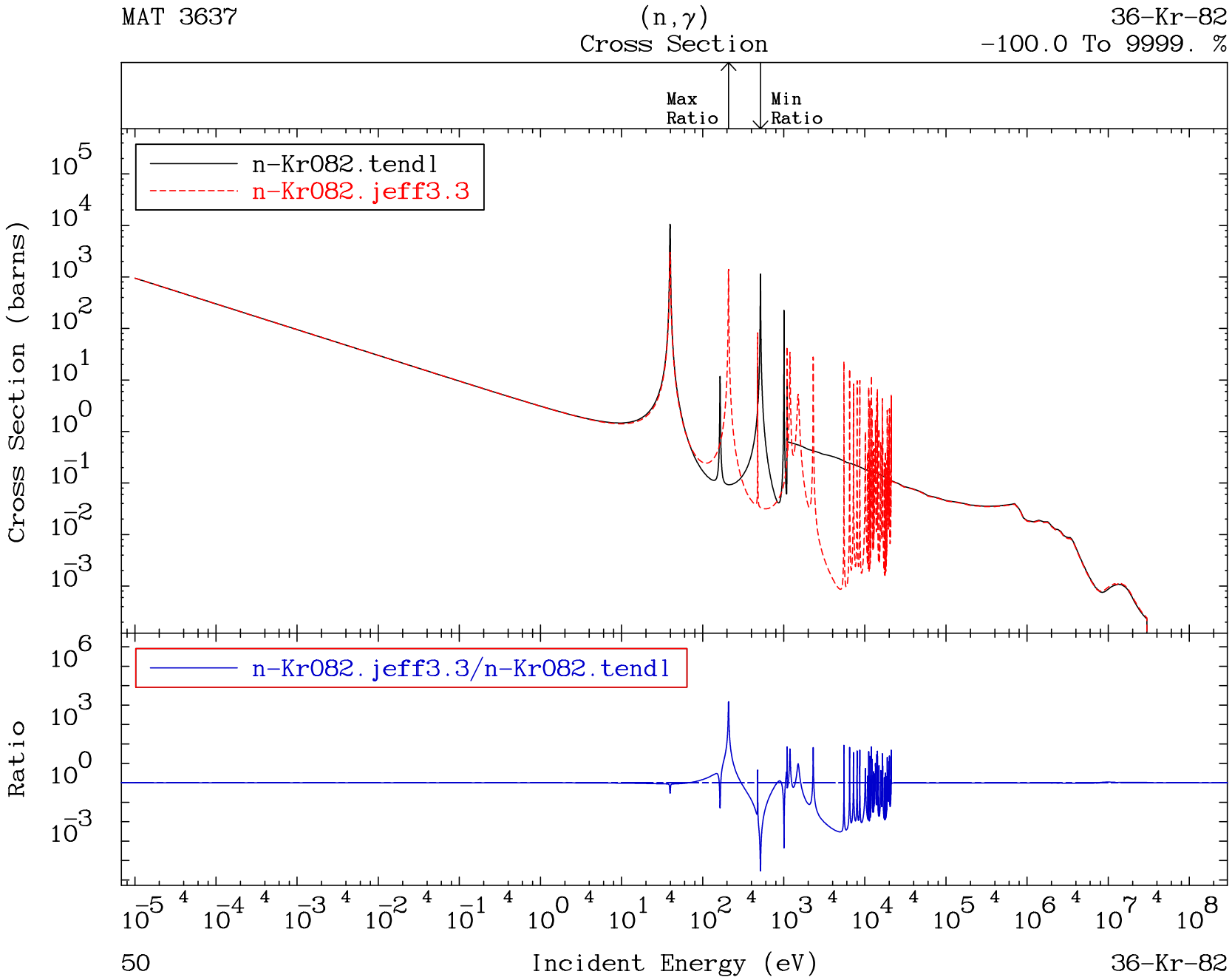

MAT 3637
MT= 77 (n,n') Level
Cross Section
36-Kr-82
-7.798 To 0.068 %
Max
Ratio
Min
Ratio
n-Kr082.tendl Threshold 3.2261 MeV
n-Kr082.jeff3.3 Threshold 3.2261 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
45
Incident Energy (eV)
36-Kr-82

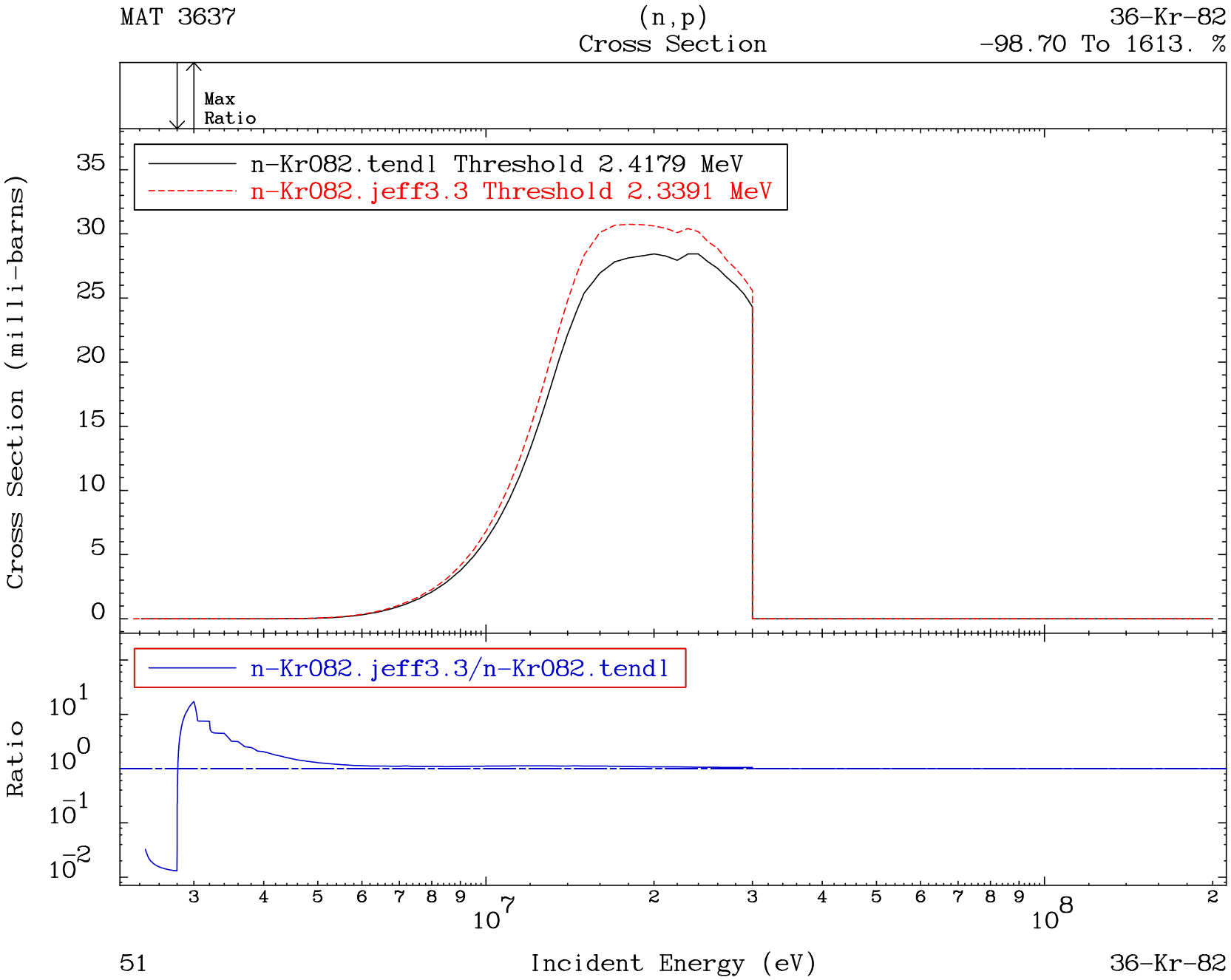

MAT 3637
MT= 78 (n,n') Level
Cross Section
36-Kr-82
-7.794 To 0.028 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.2611 MeV
n-Kr082.jeff3.3 Threshold 3.2611 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.00
0.96
0.92
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
36-Kr-82

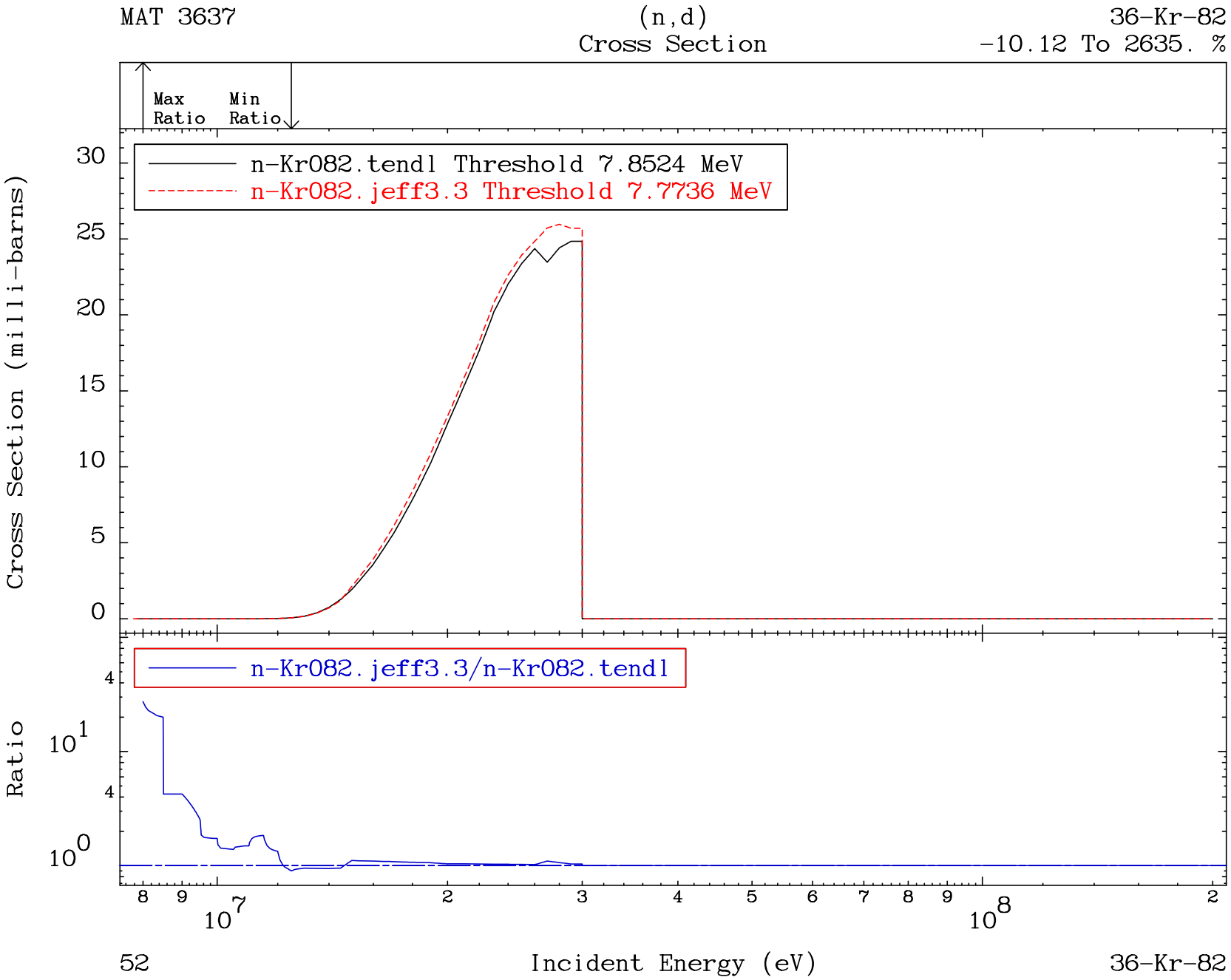

MAT 3637
MT= 79 (n,n') Level
Cross Section
36-Kr-82
-0.169 To 0.053 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.2960 MeV
n-Kr082.jeff3.3 Threshold 3.2960 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
36-Kr-82

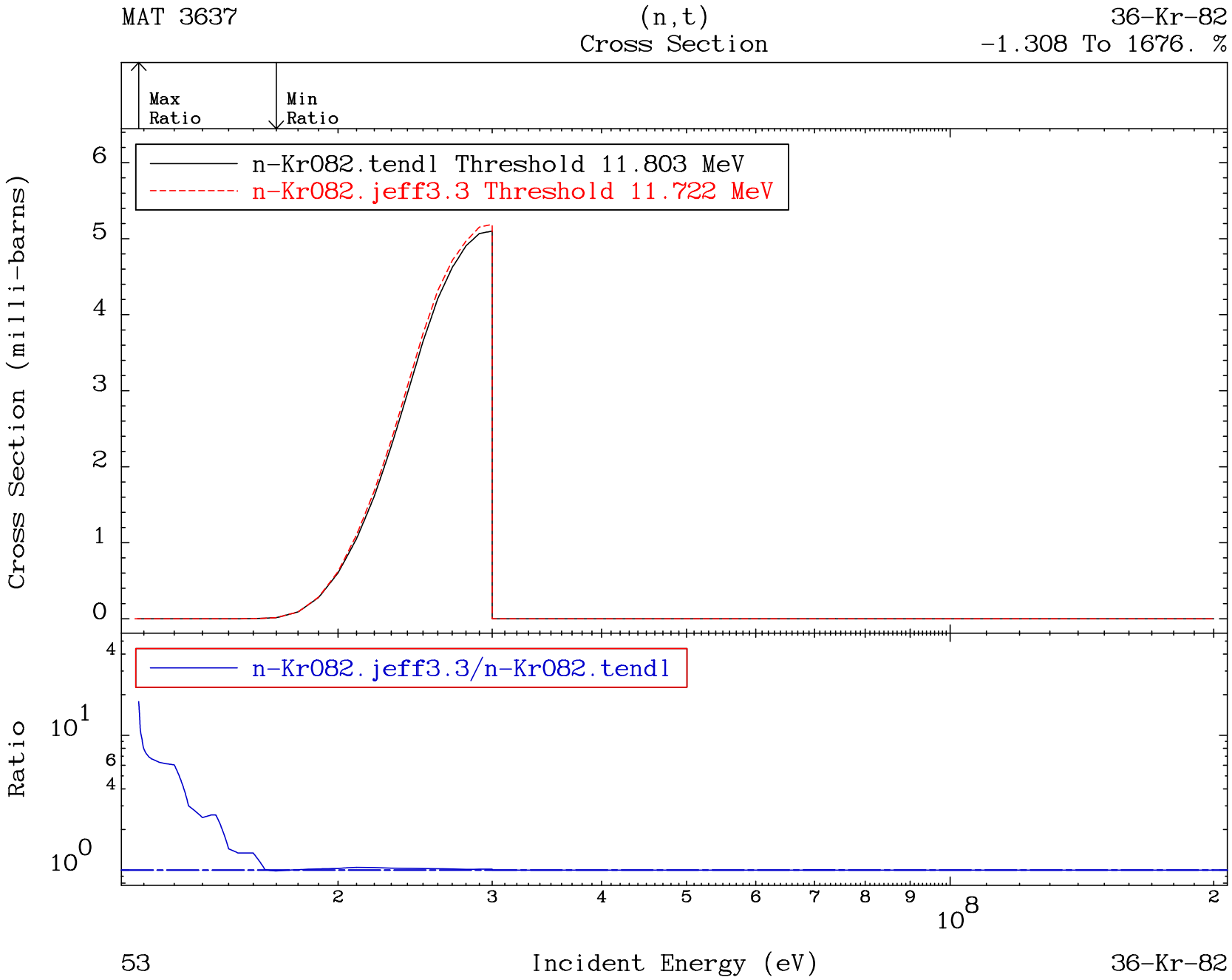

MAT 3637
MT= 80 (n,n') Level
Cross Section
36-Kr-82
-0.155 To 0.039 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 3.3629 MeV
n-Kr082.jeff3.3 Threshold 3.3629 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
36-Kr-82

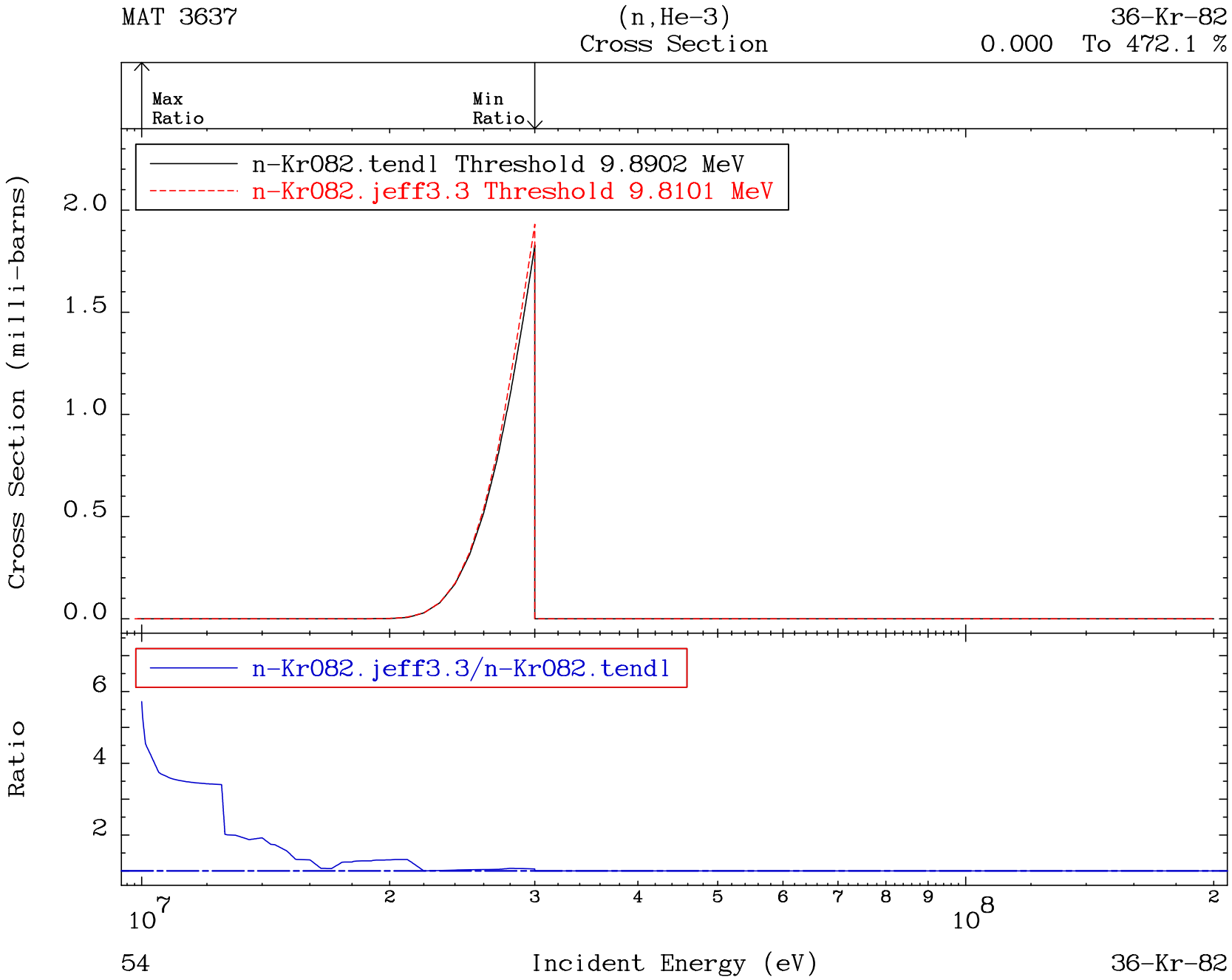

MAT 3637
(n,n') Continuum
Cross Section
36-Kr-82
-4.839 To 3.502 %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 3.3629 MeV
n-Kr082.jeff3.3 Threshold 3.3629 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.05
1.00
0.95
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
36-Kr-82

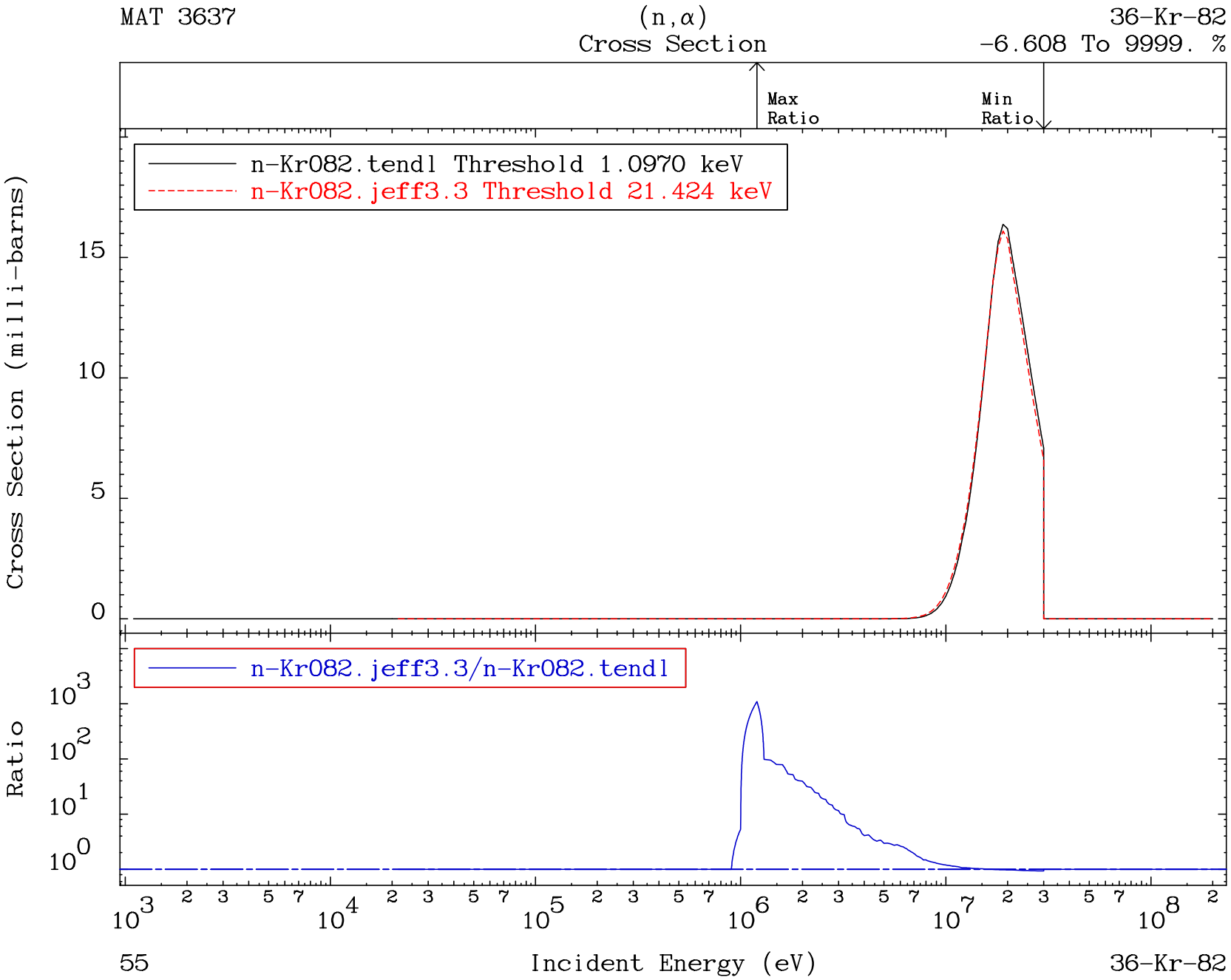

MAT 3637
(n,γ)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
50
36-Kr-82

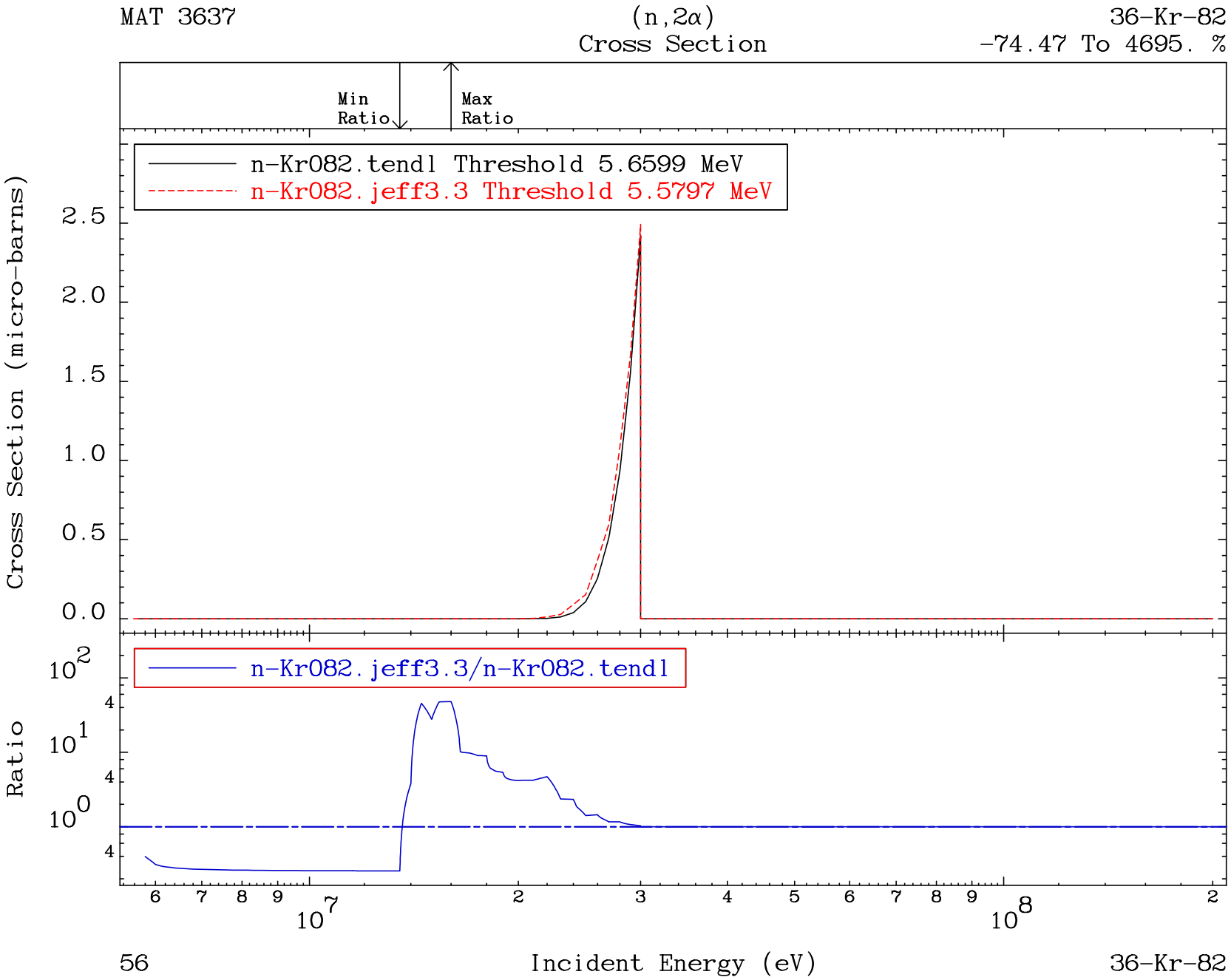

MAT 3637
(n,p)
Cross Section
36-Kr-82
-98.70 To 1613. %
Max
Ratio
n-Kr082.tendl Threshold 2.4179 MeV
n-Kr082.jeff3.3 Threshold 2.3391 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
10^0
10^-1
10^-2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
51
Incident Energy (eV)
36-Kr-82

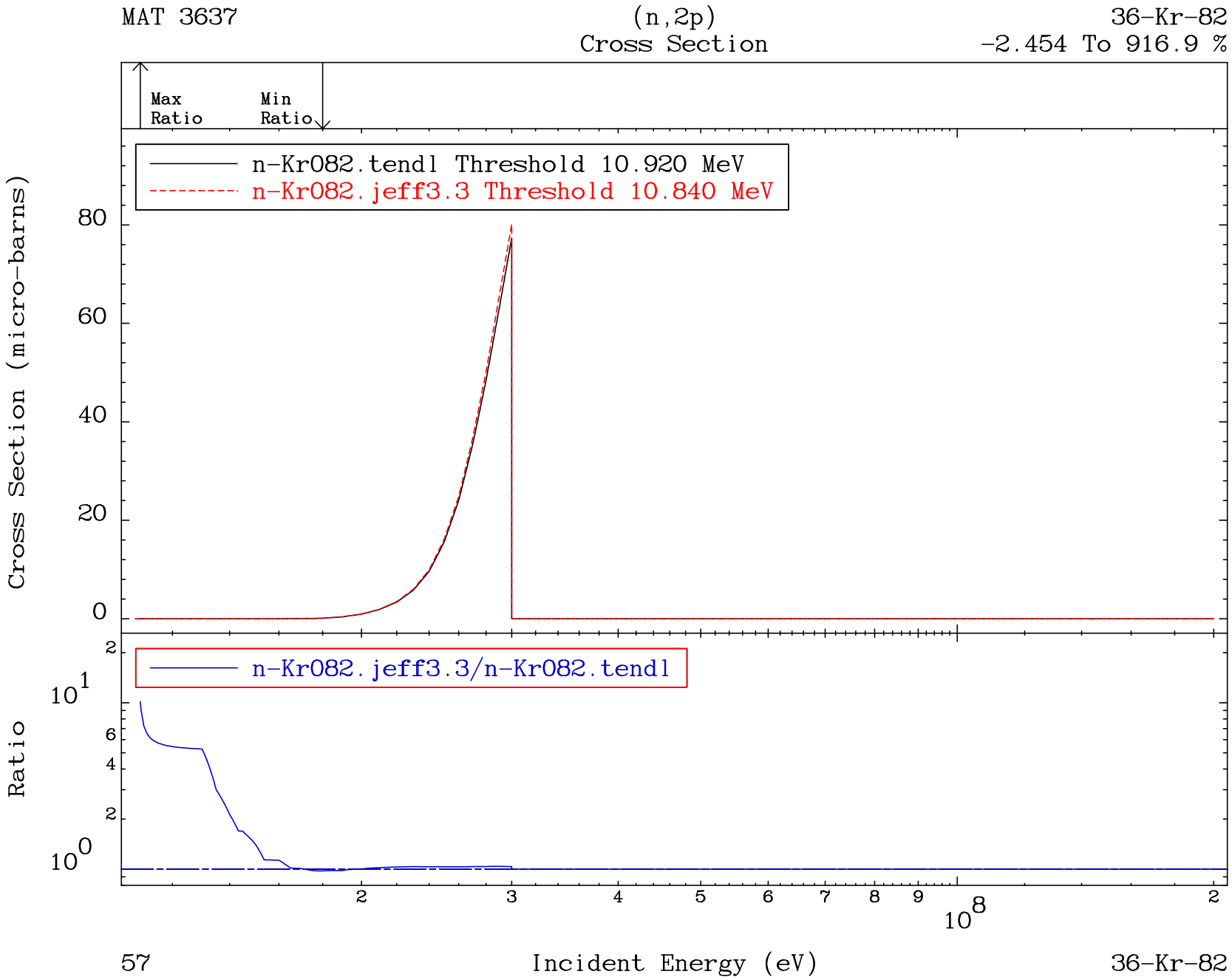

MAT 3637
(n,d)
Cross Section
36-Kr-82
-10.12 To 2635. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 7.8524 MeV
n-Kr082.jeff3.3 Threshold 7.7736 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
4
10^0
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
52
Incident Energy (eV)
36-Kr-82

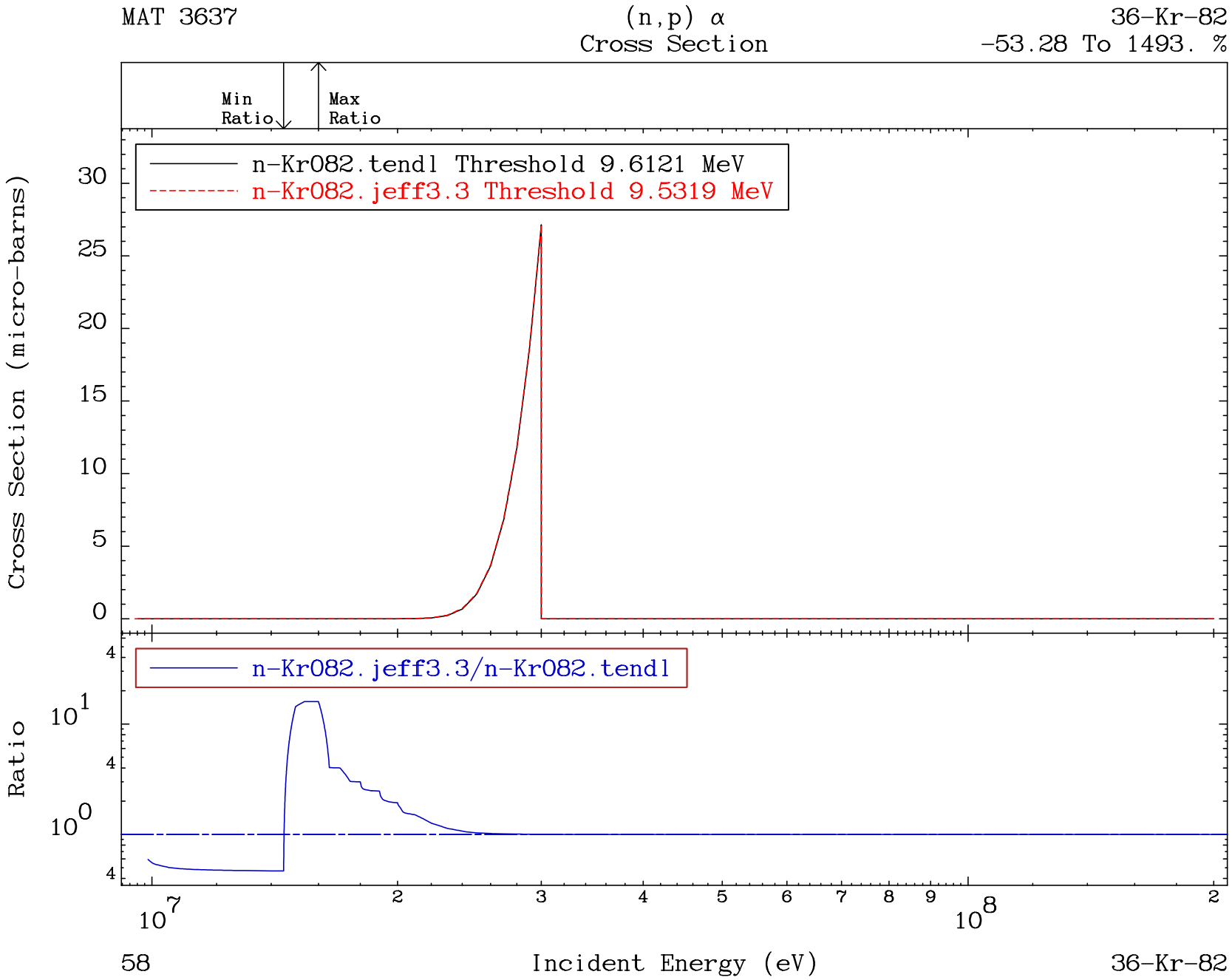

MAT 3637
(n,t)
Cross Section
36-Kr-82
-1.308 To 1676. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.803 MeV
n-Kr082.jeff3.3 Threshold 11.722 MeV
Cross Section (milli-barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
53
36-Kr-82

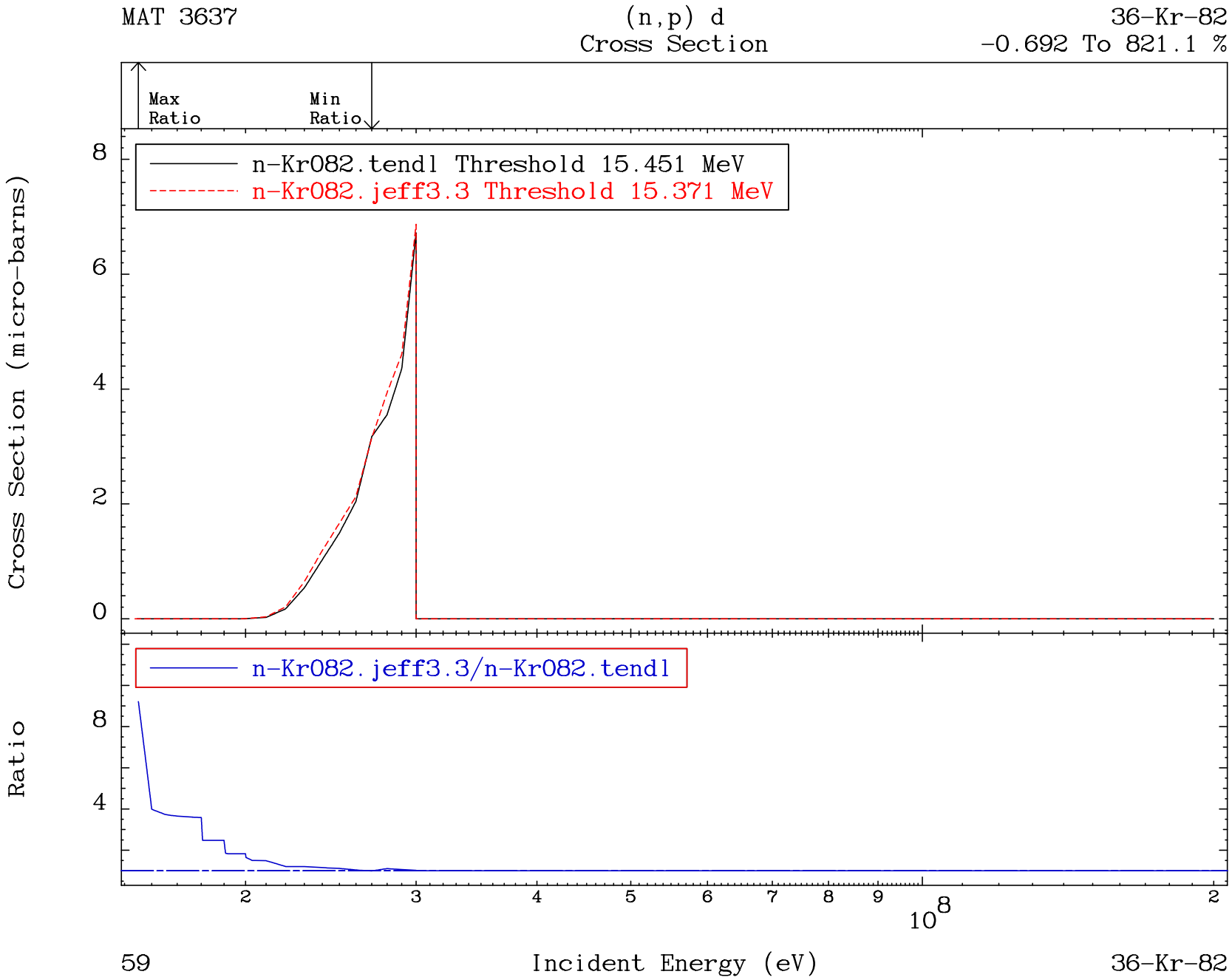

MAT 3637
(n,He-3)
Cross Section
36-Kr-82
0.000 To 472.1 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 9.8902 MeV
n-Kr082.jeff3.3 Threshold 9.8101 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
6
4
2
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
36-Kr-82

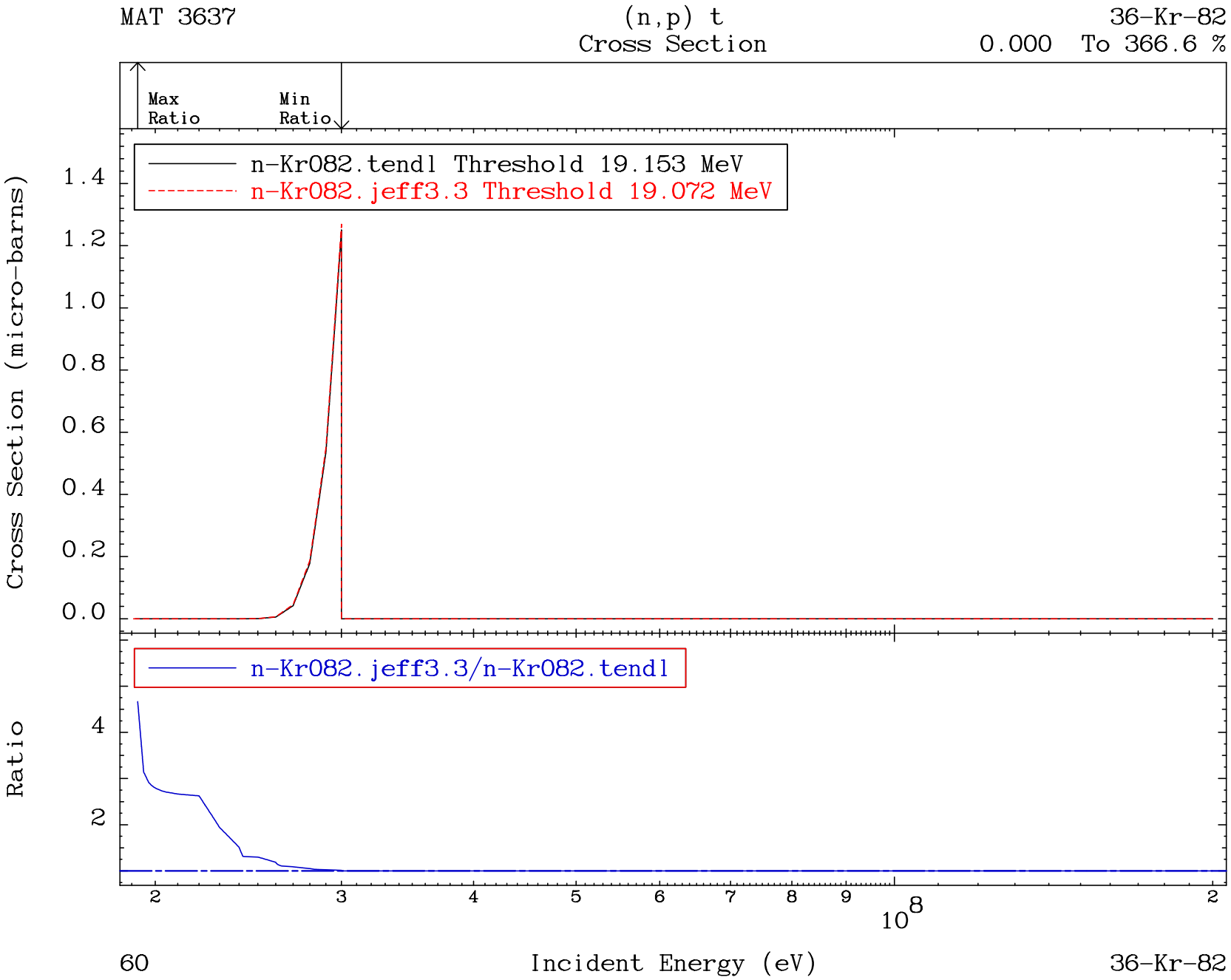

MAT 3637
(n,α)
Cross Section
36-Kr-82
-6.608 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 1.0970 keV
n-Kr082.jeff3.3 Threshold 21.424 keV
Cross Section (milli-barns)
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 5 7
10^3
10^4
10^5
10^6
10^7
10^8
55
Incident Energy (eV)
36-Kr-82

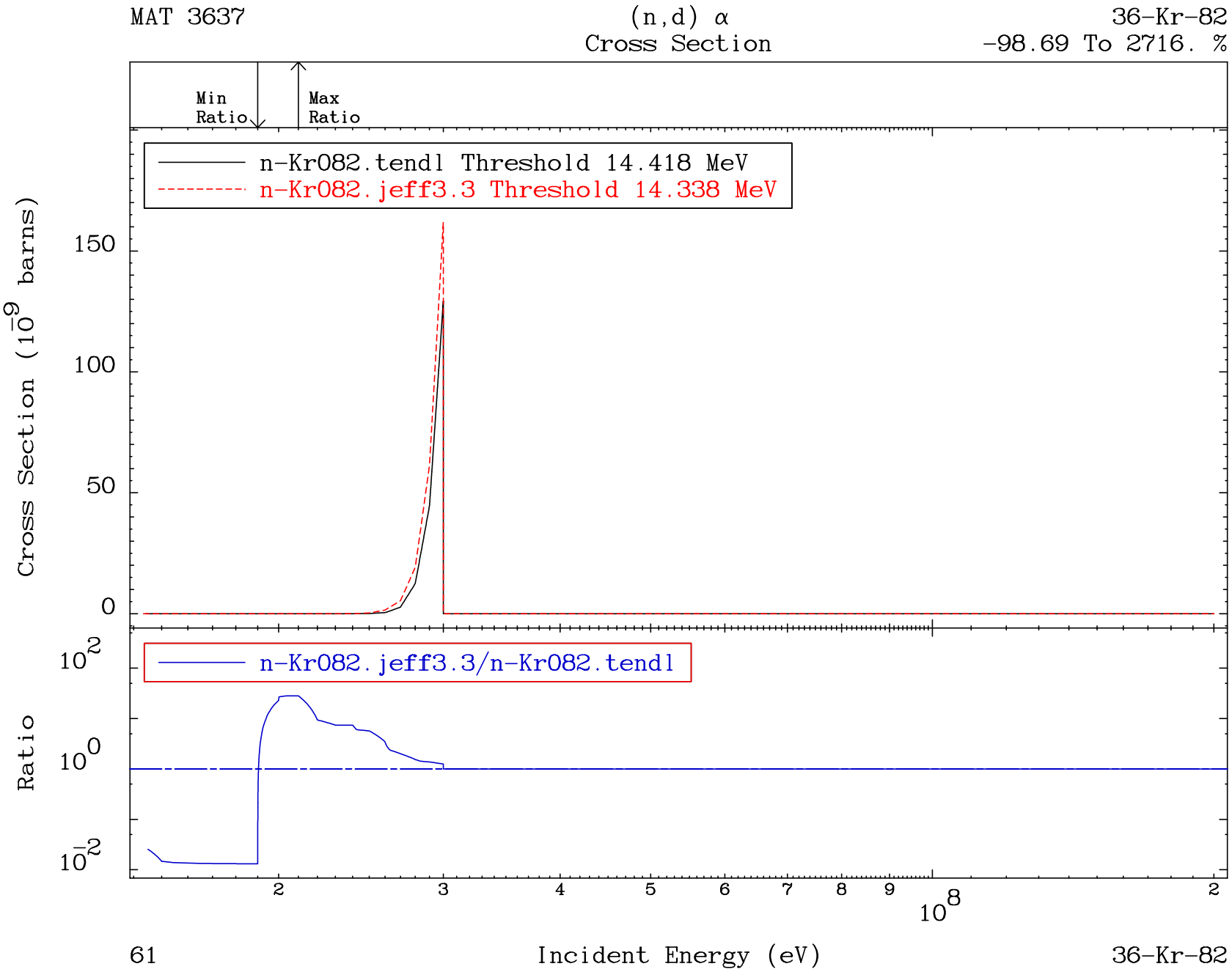

MAT 3637
(n,2α)
Cross Section
36-Kr-82
-74.47 To 4695. %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 5.6599 MeV
n-Kr082.jeff3.3 Threshold 5.5797 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
36-Kr-82

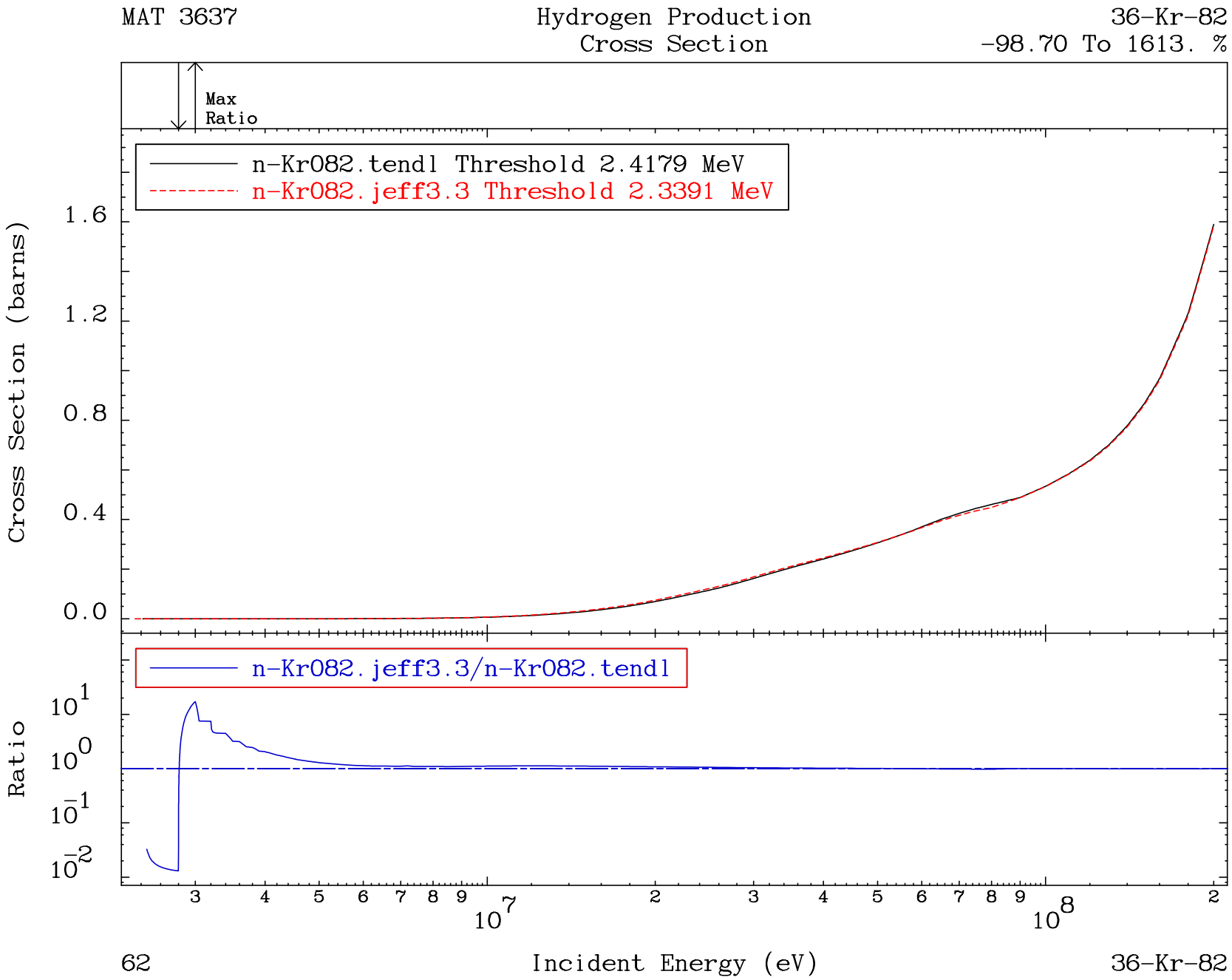

MAT 3637
(n,2p)
Cross Section
36-Kr-82
-2.454 To 916.9 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 10.920 MeV
n-Kr082.jeff3.3 Threshold 10.840 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
2
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
36-Kr-82

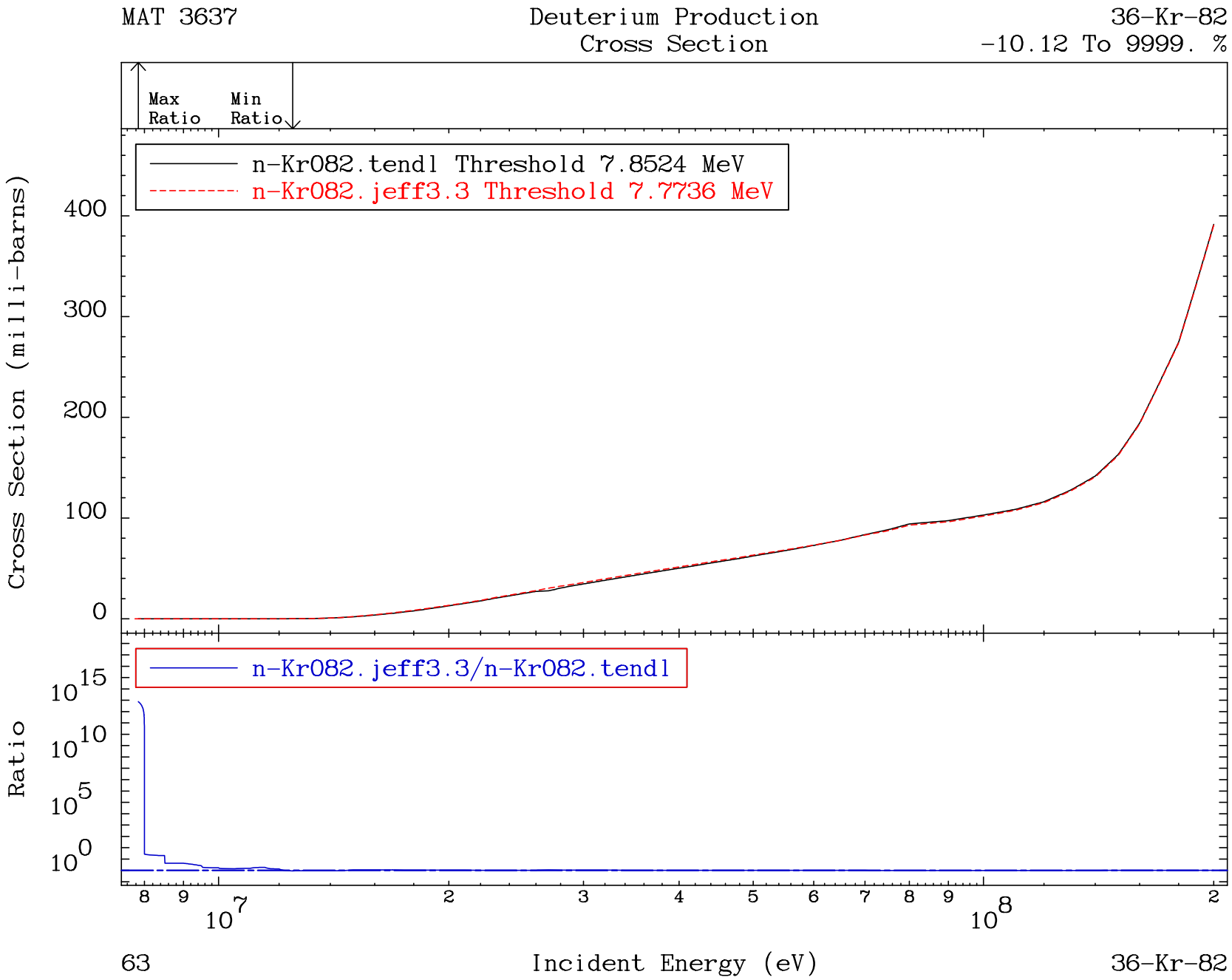

MAT 3637
(n,p) α
Cross Section
36-Kr-82
-53.28 To 1493. %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 9.6121 MeV
n-Kr082.jeff3.3 Threshold 9.5319 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
10^0
4
4
4
10^7
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
36-Kr-82

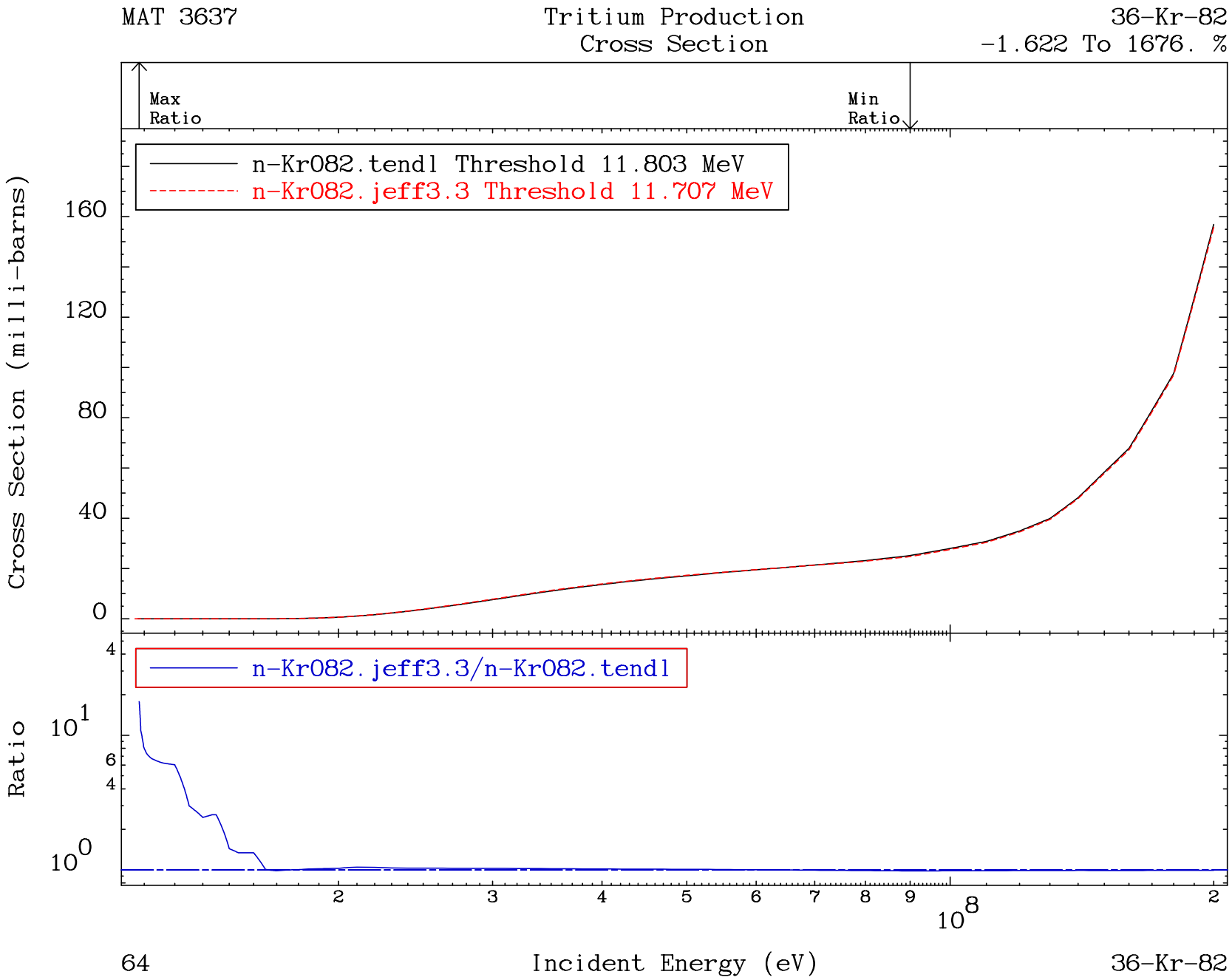

MAT 3637
(n,p) d
Cross Section
36-Kr-82
-0.692 To 821.1 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 15.451 MeV
n-Kr082.jeff3.3 Threshold 15.371 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4
8
2
3
4
5
6
7
8
9
2
10^8
59
Incident Energy (eV)
36-Kr-82

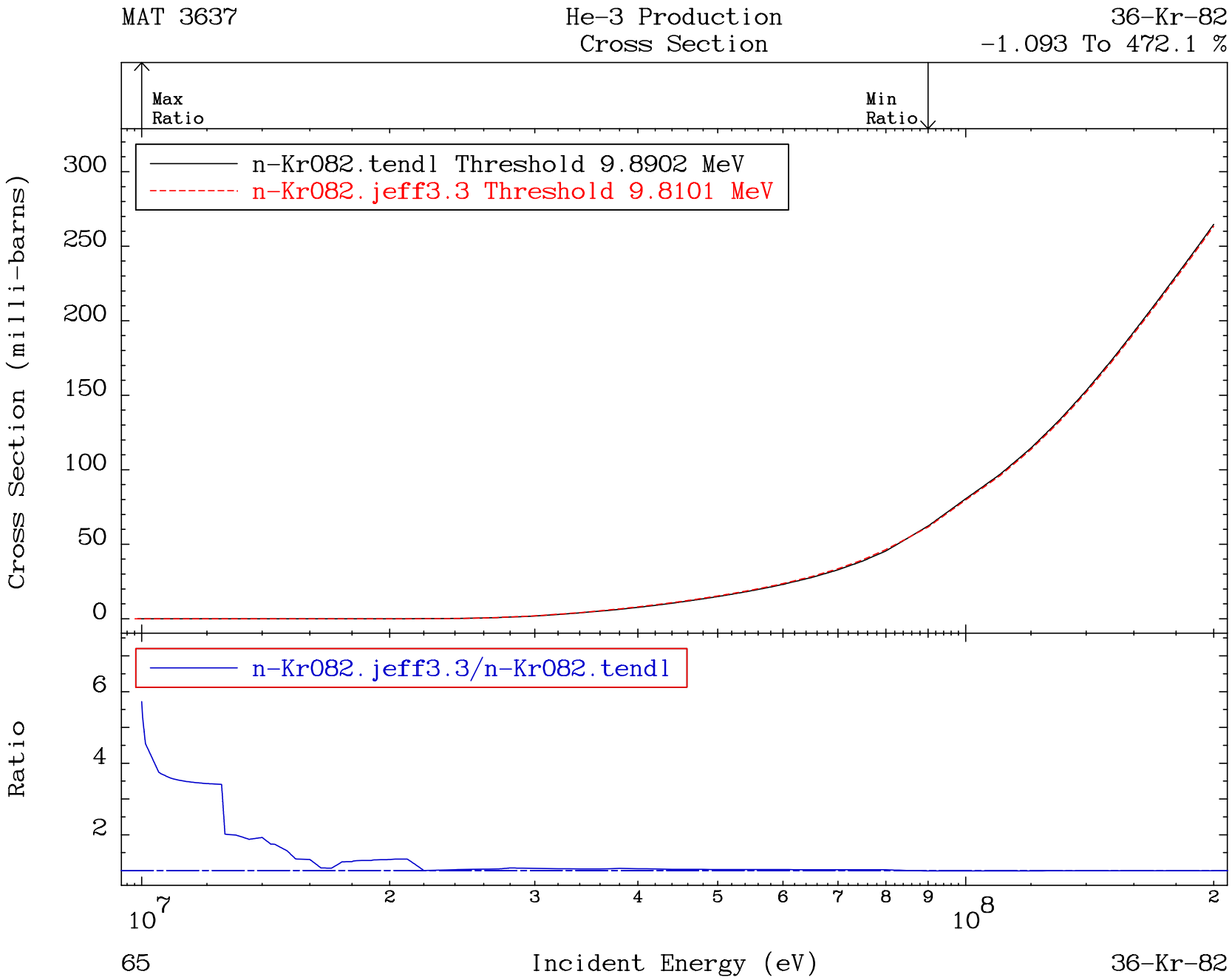

MAT 3637
(n,p) t
Cross Section
36-Kr-82
0.000 To 366.6 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.153 MeV
n-Kr082.jeff3.3 Threshold 19.072 MeV
Cross Section (micro-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
36-Kr-82

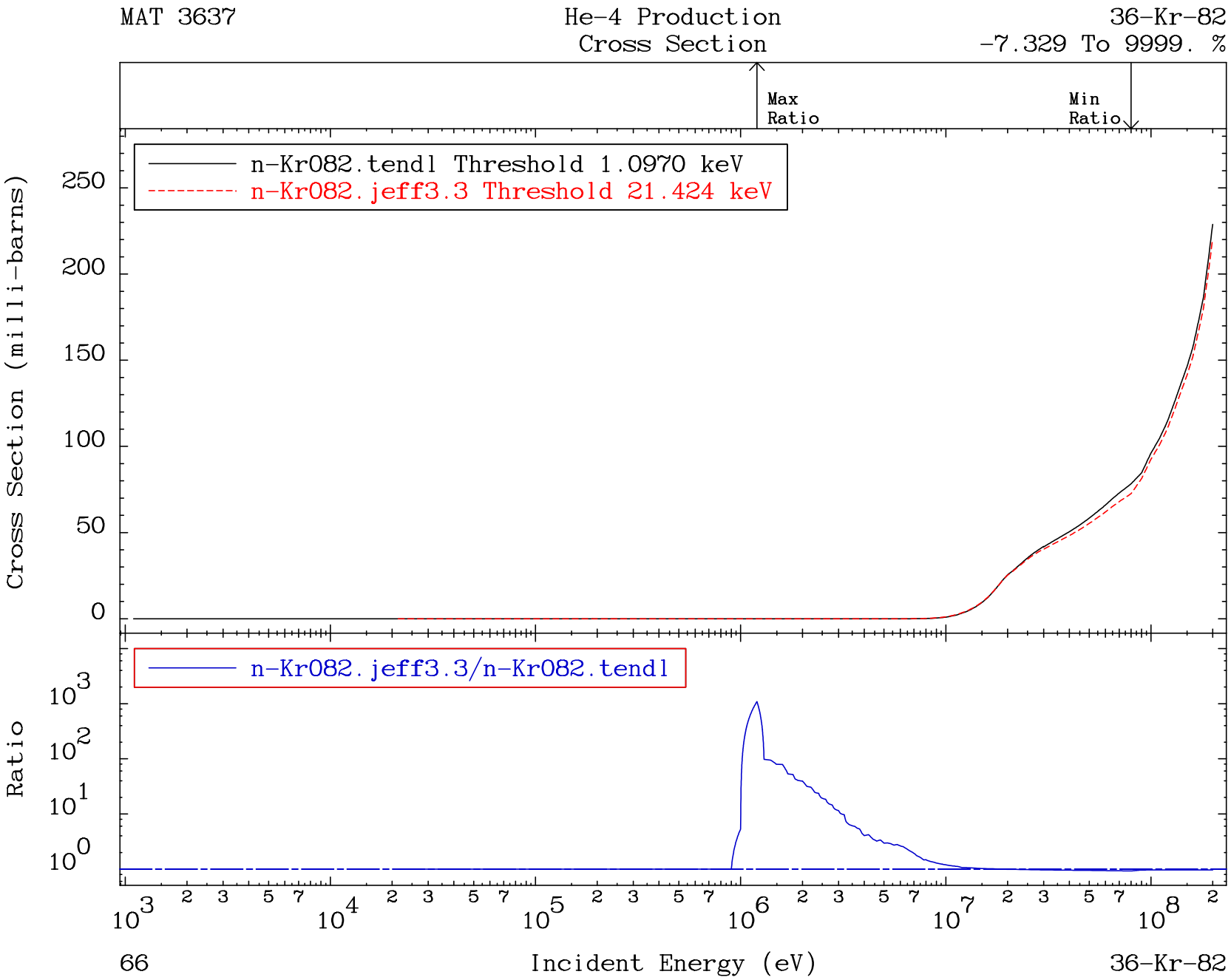

MAT 3637
(n,d) α
Cross Section
36-Kr-82
-98.69 To 2716. %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 14.418 MeV
n-Kr082.jeff3.3 Threshold 14.338 MeV
Cross Section (10^-9 barns)
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
36-Kr-82

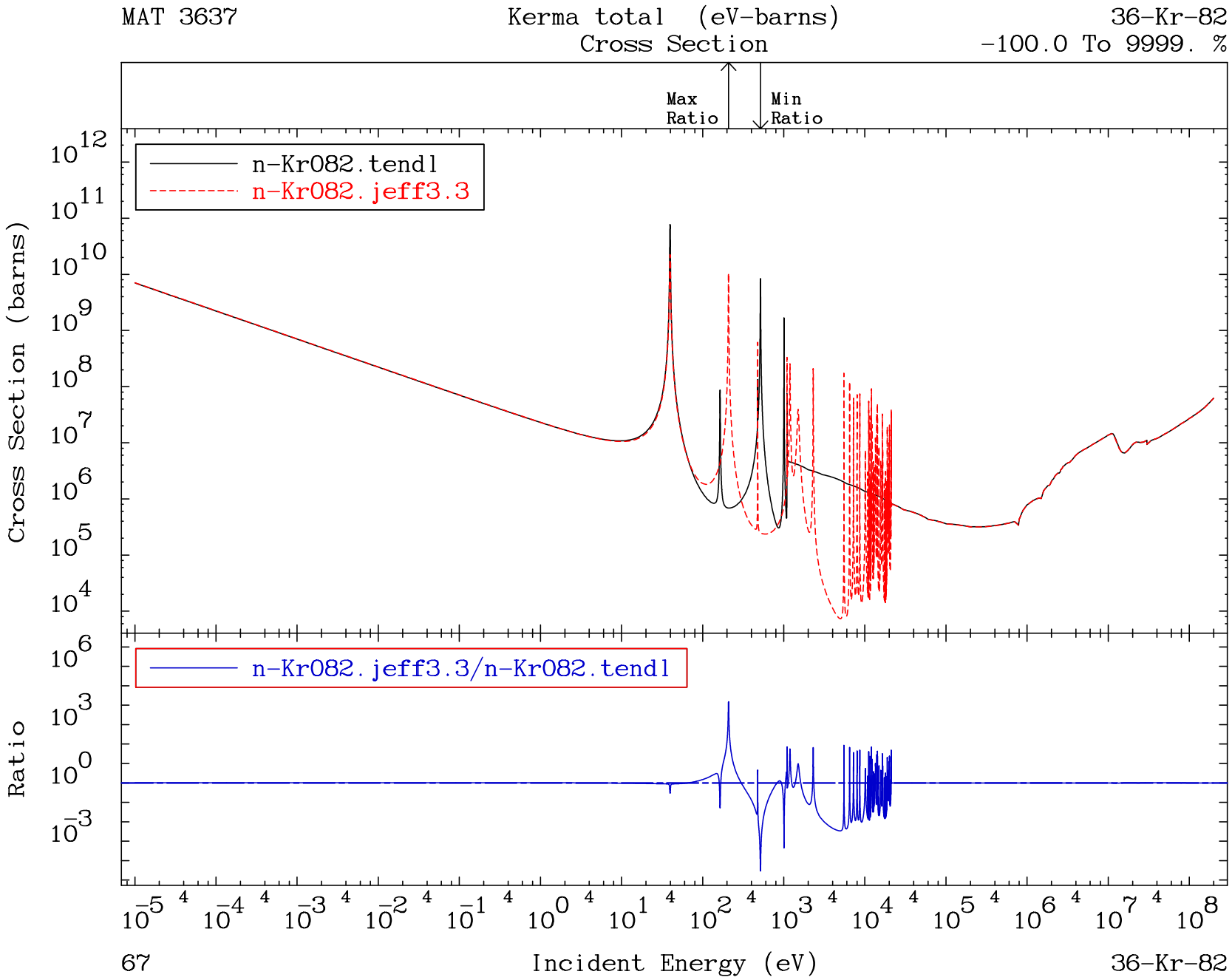

MAT 3637
Hydrogen Production
Cross Section
36-Kr-82
-98.70 To 1613. %
Max
Ratio
n-Kr082.tendl Threshold 2.4179 MeV
n-Kr082.jeff3.3 Threshold 2.3391 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
10^0
10^-1
10^-2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
62
Incident Energy (eV)
36-Kr-82

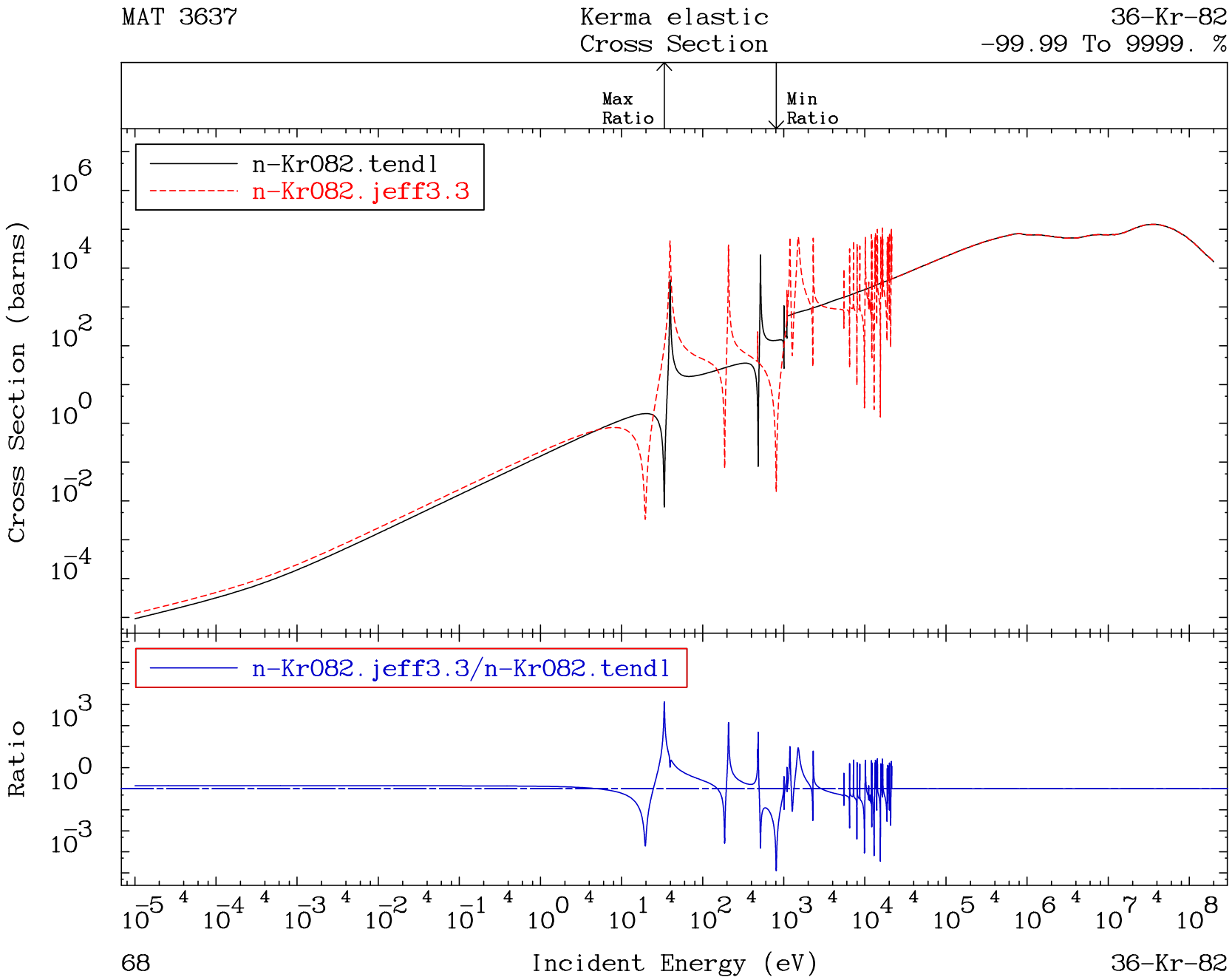

MAT 3637
Deuterium Production
Cross Section
36-Kr-82
-10.12 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 7.8524 MeV
n-Kr082.jeff3.3 Threshold 7.7736 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^15
10^10
10^5
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
63
Incident Energy (eV)
36-Kr-82

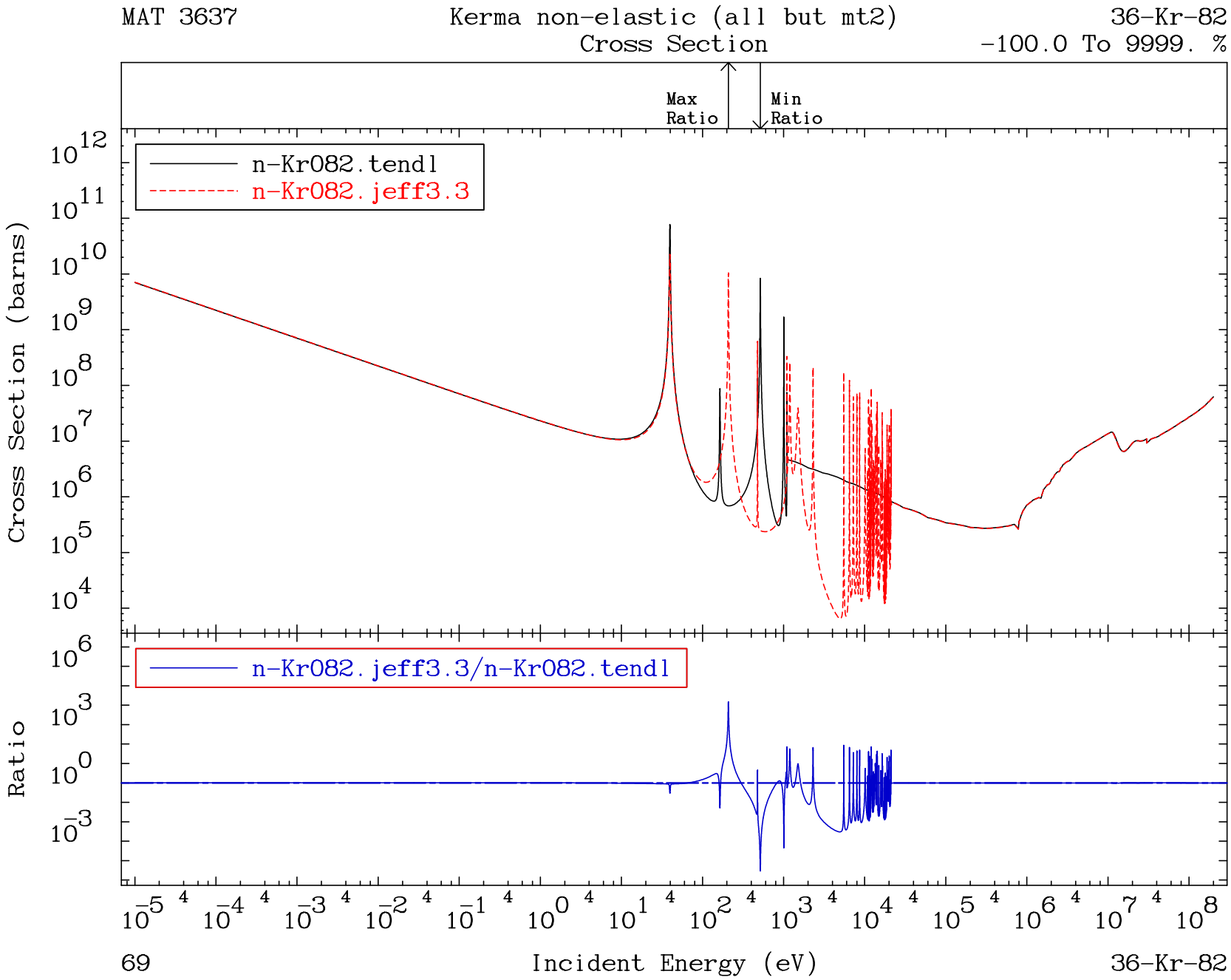

MAT 3637
Tritium Production
Cross Section
36-Kr-82
-1.622 To 1676. %
Max
Ratio
Min
Ratio
n-Kr082.tendl Threshold 11.803 MeV
n-Kr082.jeff3.3 Threshold 11.707 MeV
Cross Section (milli-barns)
160
120
80
40
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4
10^1
6
4
10^0
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
36-Kr-82

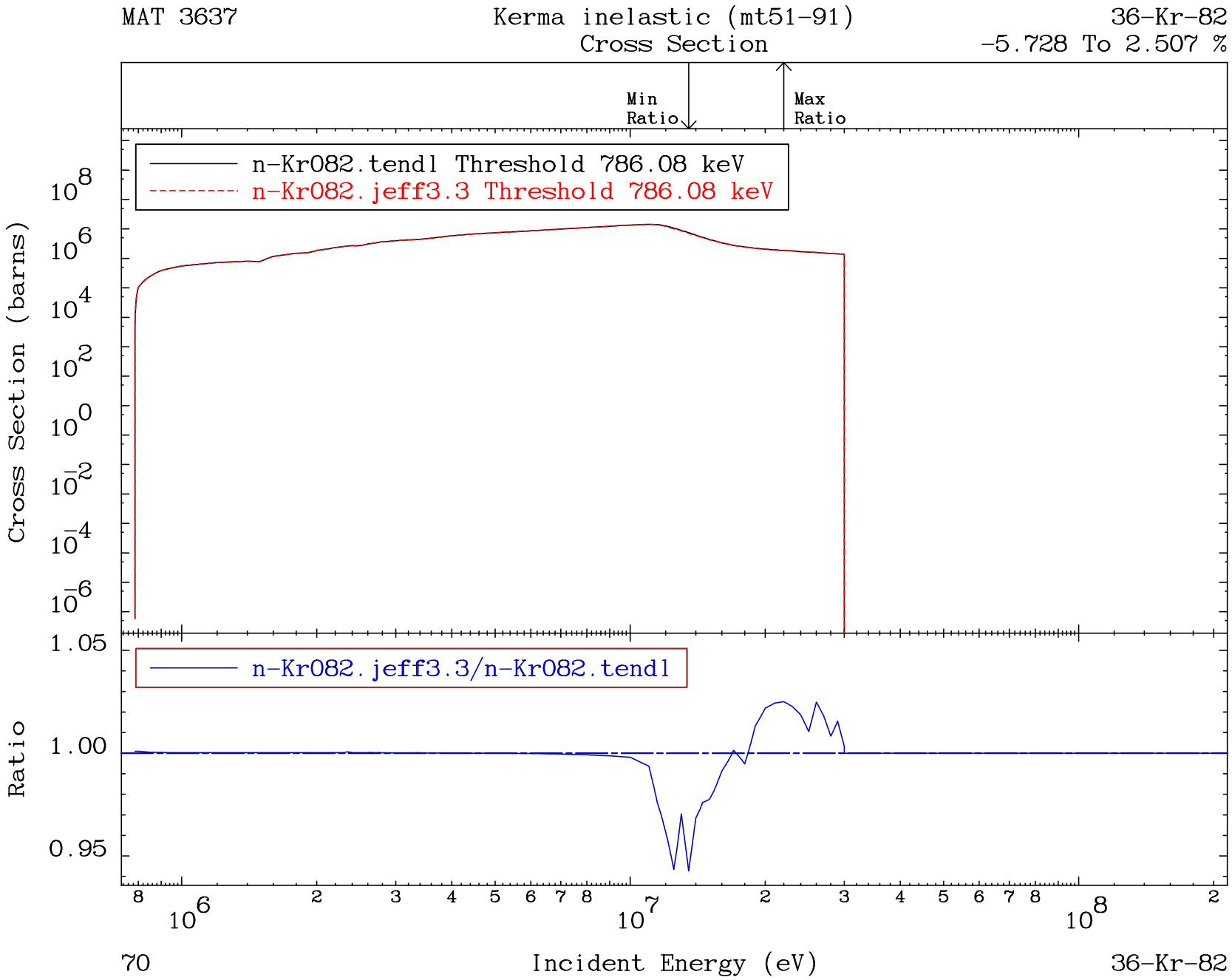

MAT 3637
He-3 Production
Cross Section
36-Kr-82
-1.093 To 472.1 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 9.8902 MeV
n-Kr082.jeff3.3 Threshold 9.8101 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
6
4
2
10^7
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
36-Kr-82

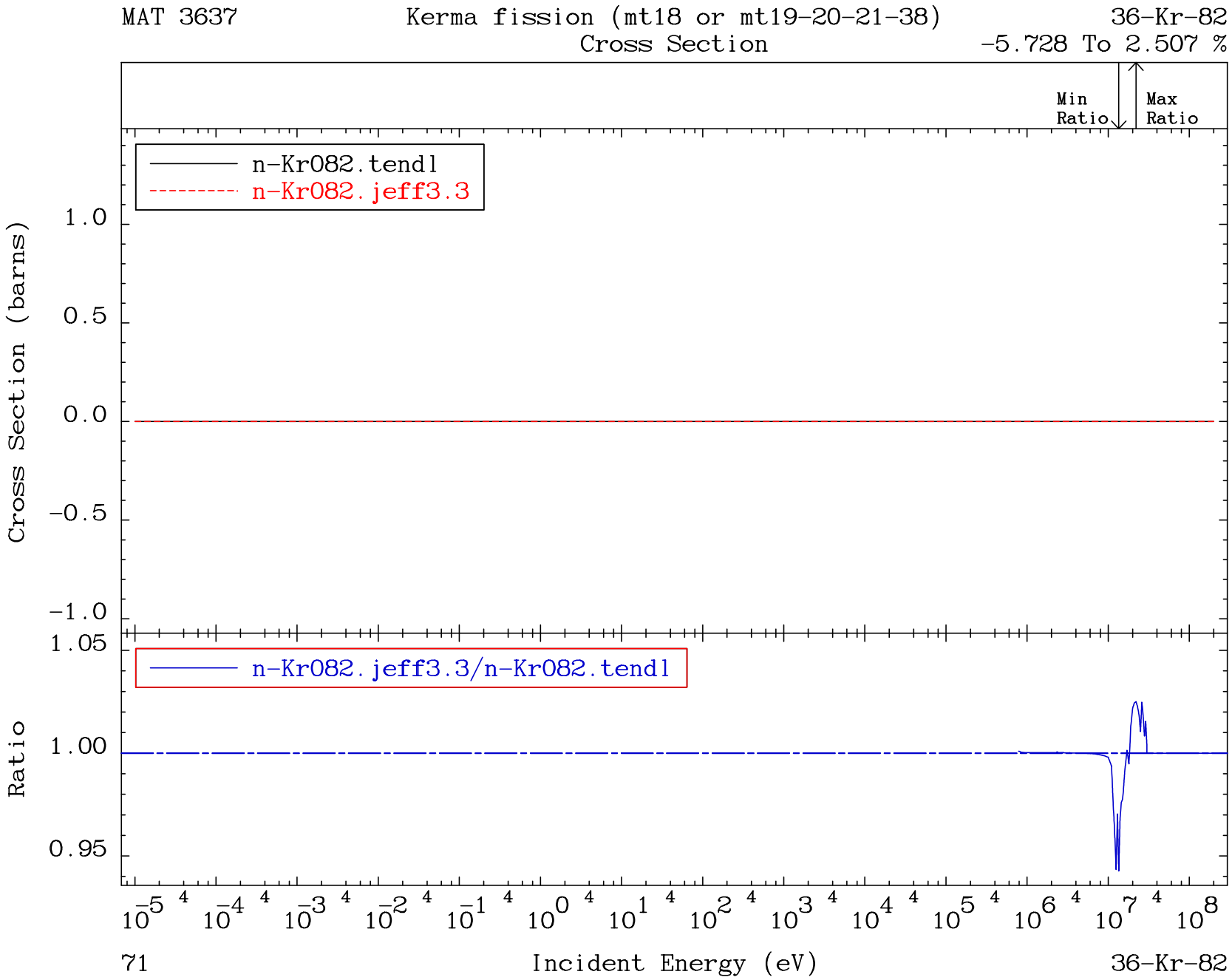

MAT 3637
He-4 Production
Cross Section
36-Kr-82
-7.329 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 1.0970 keV
n-Kr082.jeff3.3 Threshold 21.424 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^3
10^2
10^1
10^0
10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
66
Incident Energy (eV)
36-Kr-82

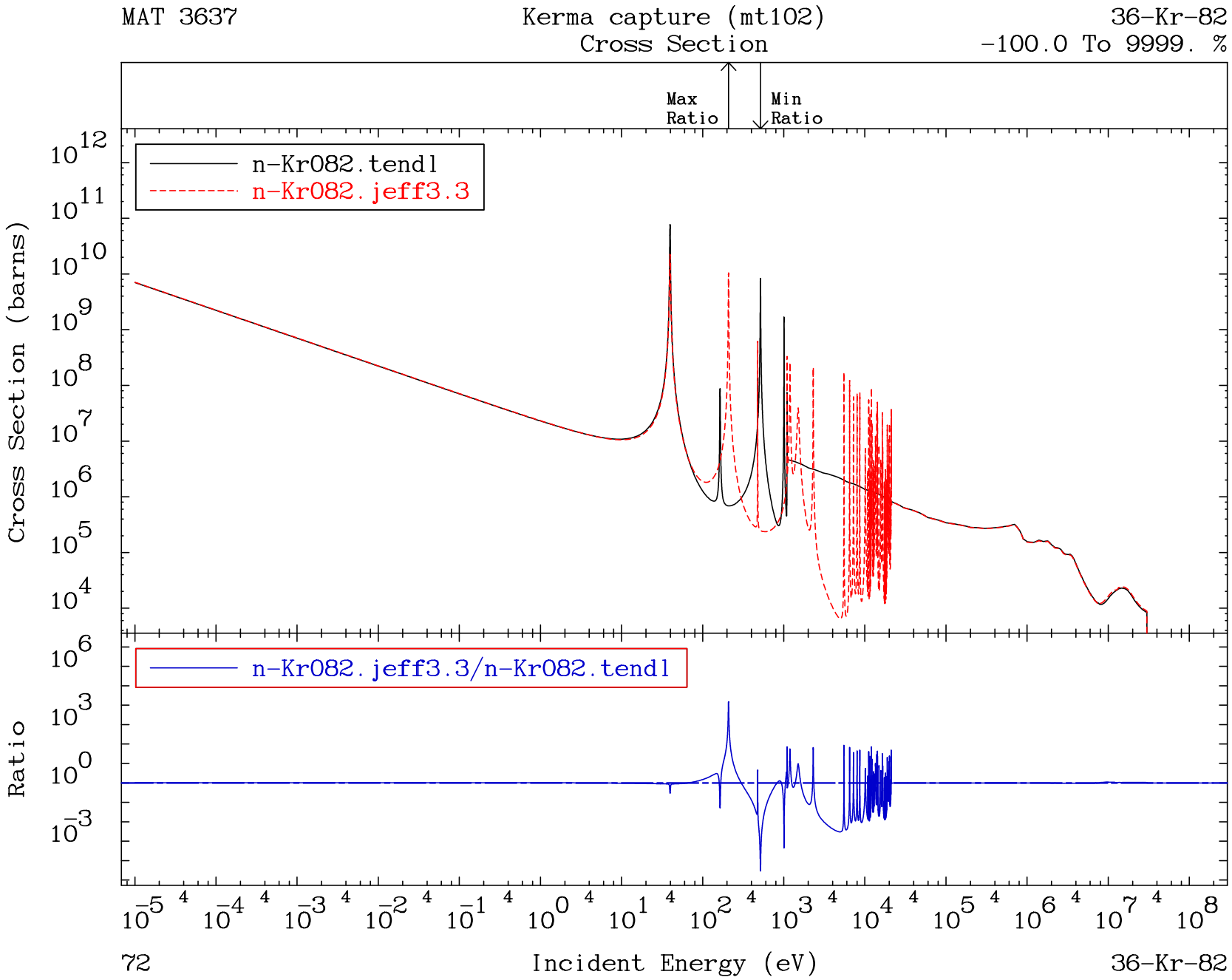

MAT 3637
Kerma total (eV-barns)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
67
36-Kr-82

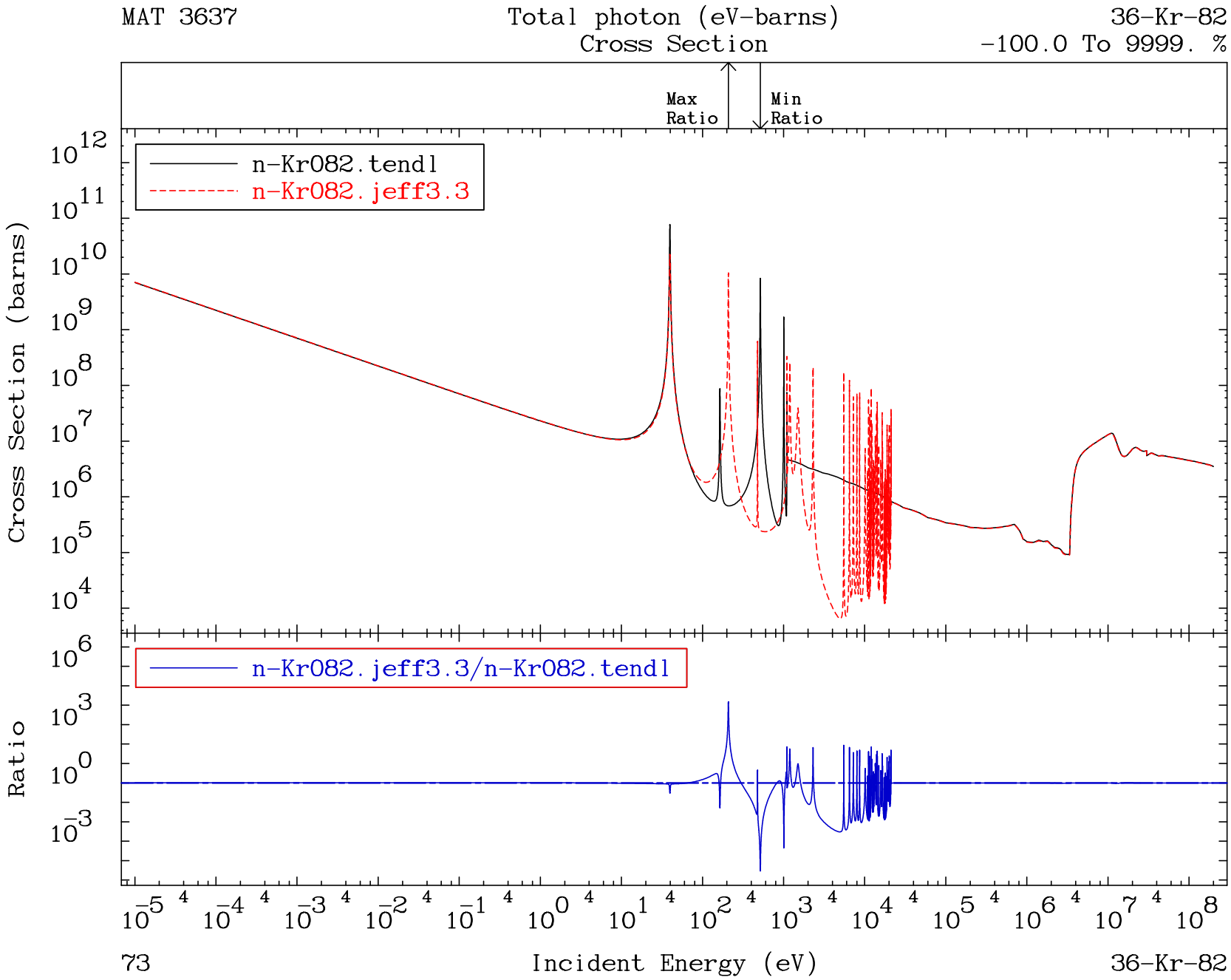

MAT 3637
Kerma elastic
Cross Section
36-Kr-82
-99.99 To 9999. %
Max
Ratio
Min
Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
68
36-Kr-82

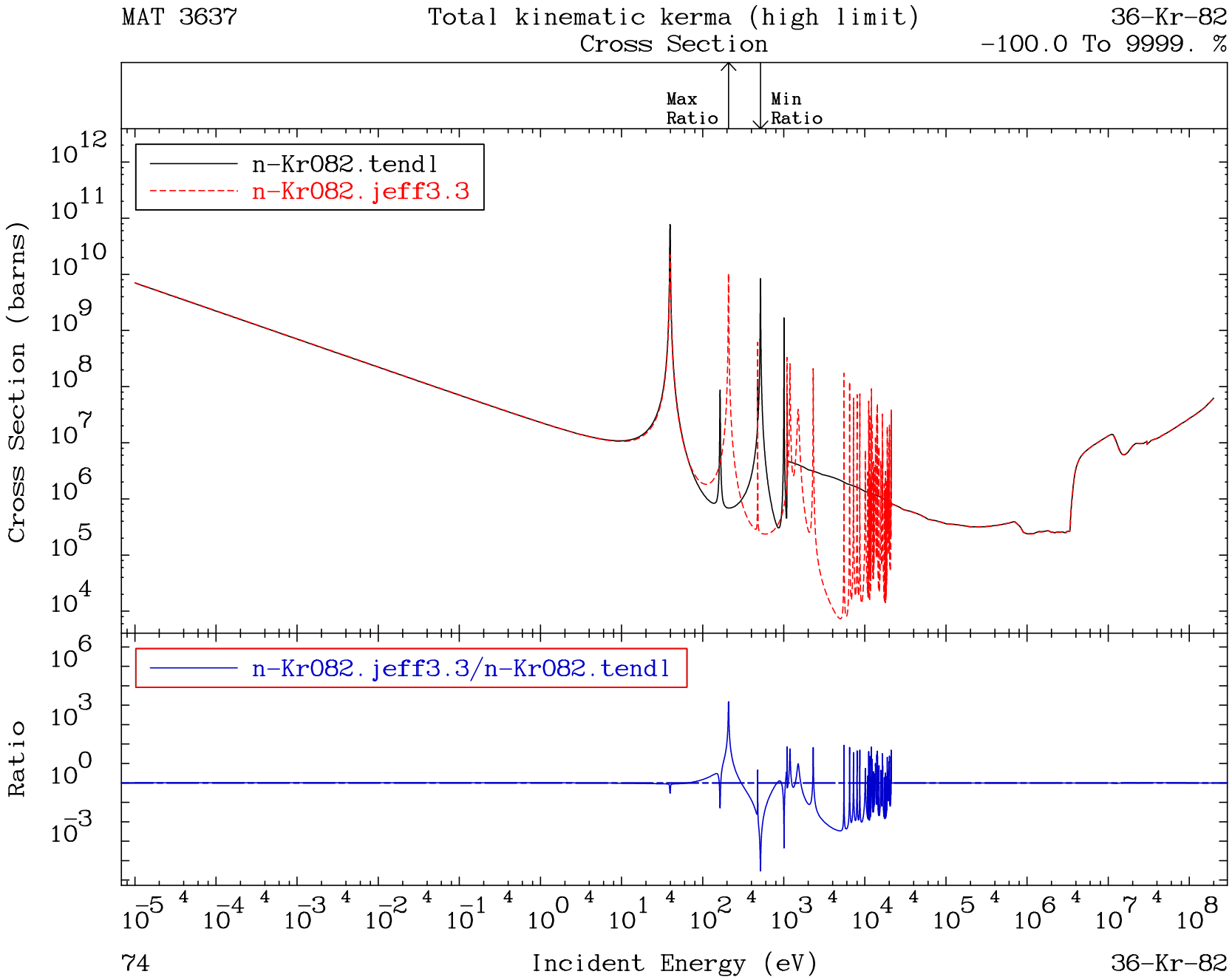

MAT 3637
Kerma non-elastic (all but mt2)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
69
Incident Energy (eV)
36-Kr-82

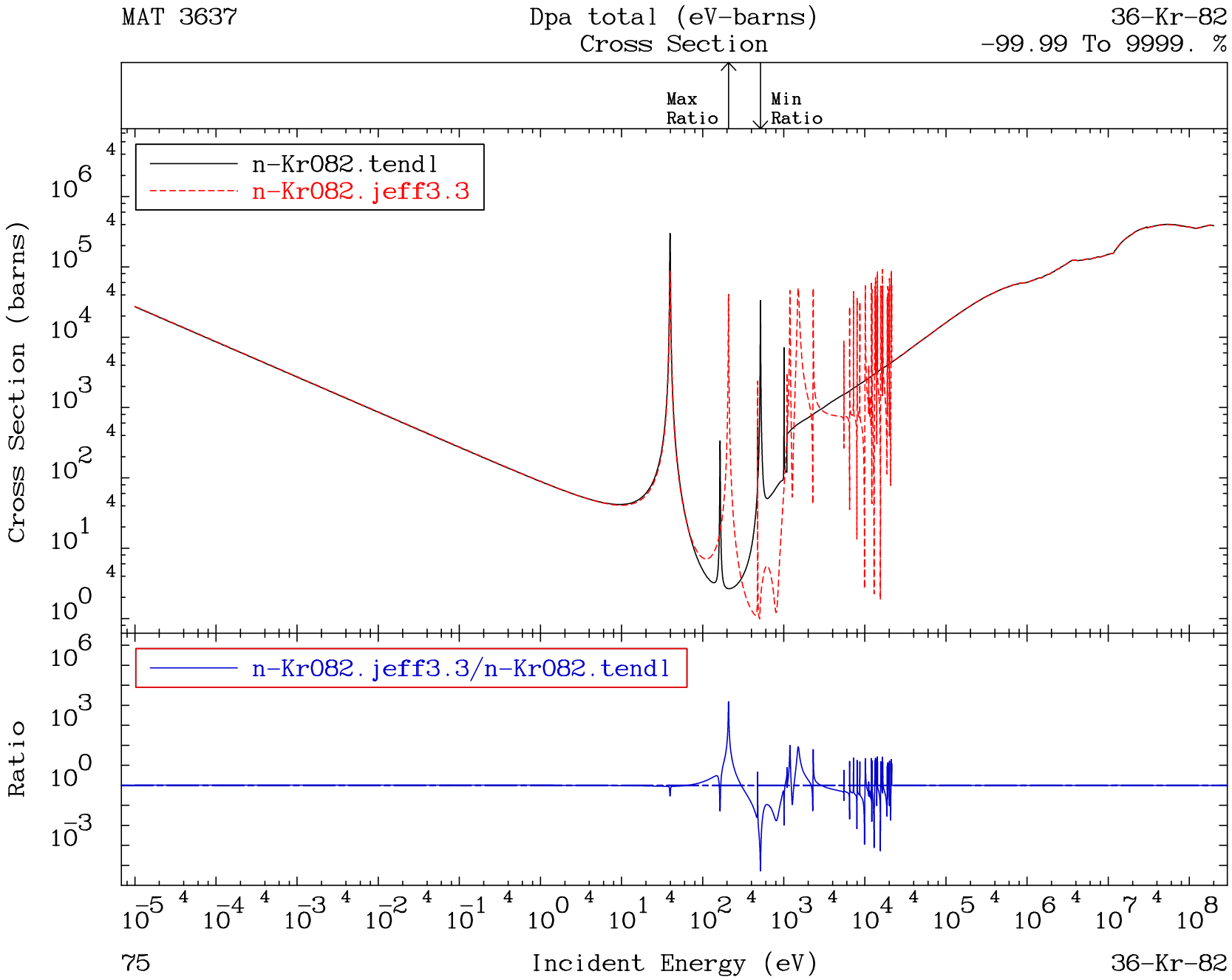

MAT 3637
Kerma inelastic (mt51-91)
Cross Section
36-Kr-82
-5.728 To 2.507 %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 786.08 keV
n-Kr082.jeff3.3 Threshold 786.08 keV
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
70
36-Kr-82

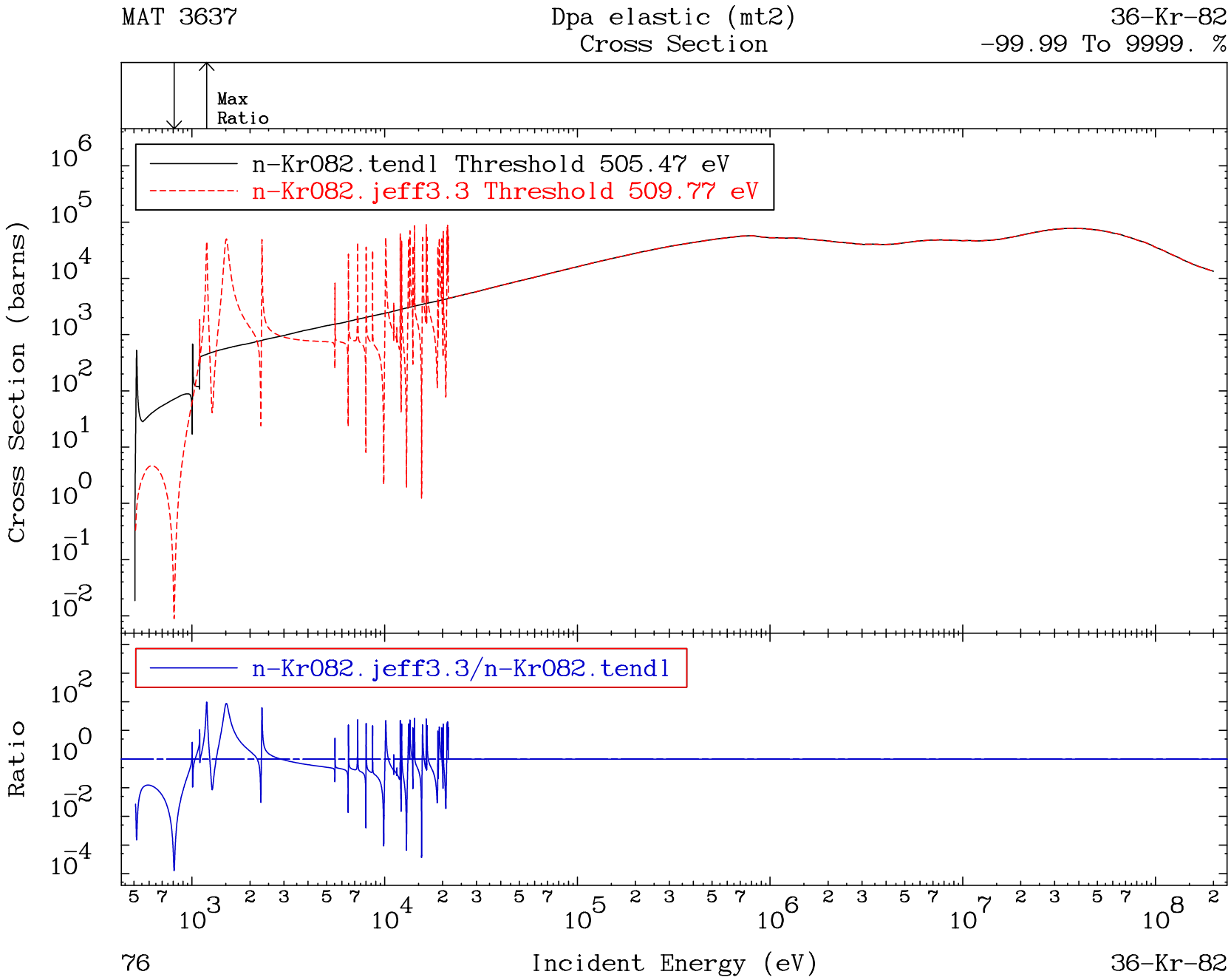

MAT 3637
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
36-Kr-82
-5.728 To 2.507 %
Min Ratio
Max Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.05
1.00
0.95
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
71
Incident Energy (eV)
36-Kr-82

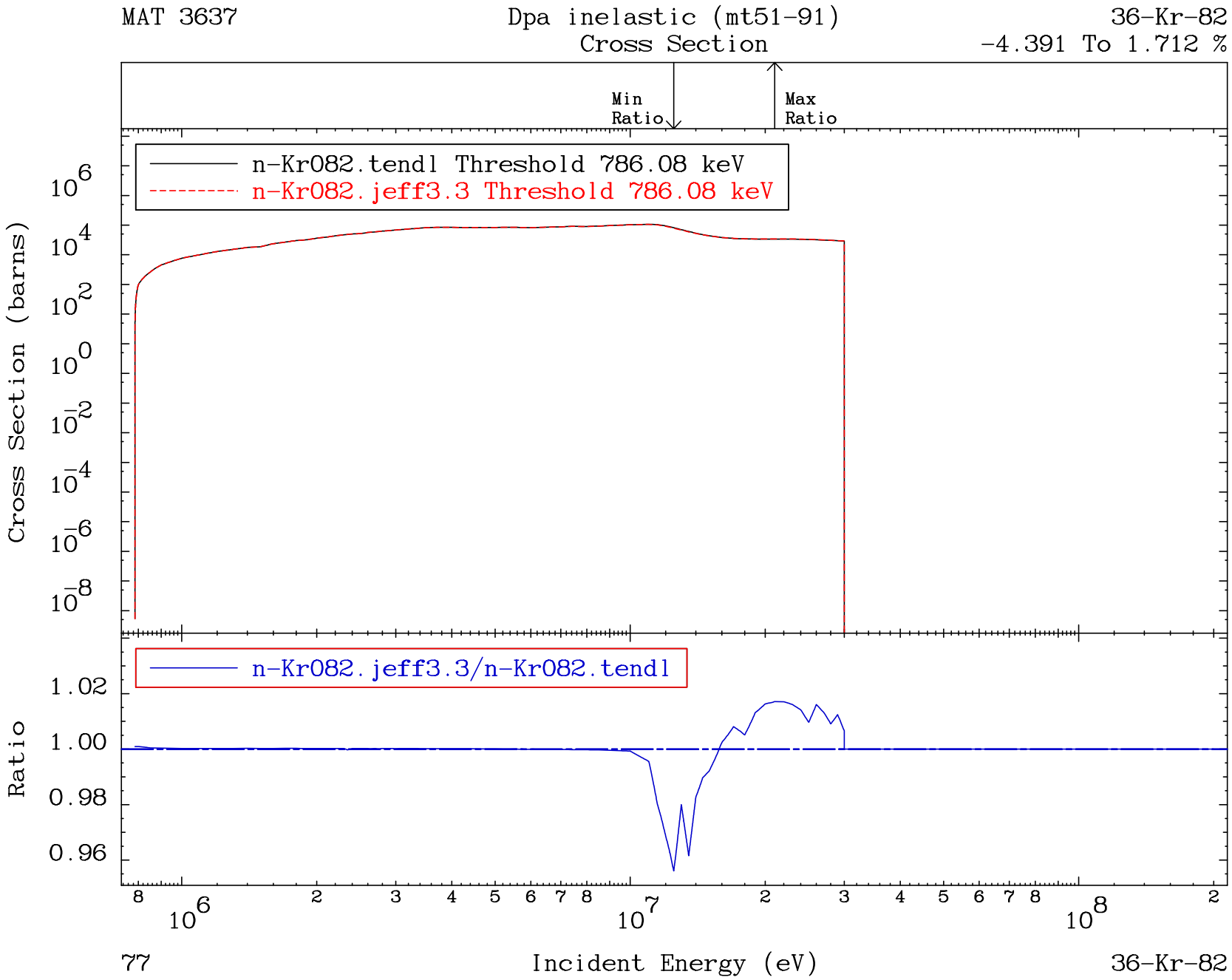

MAT 3637
Kerma capture (mt102)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
72
36-Kr-82

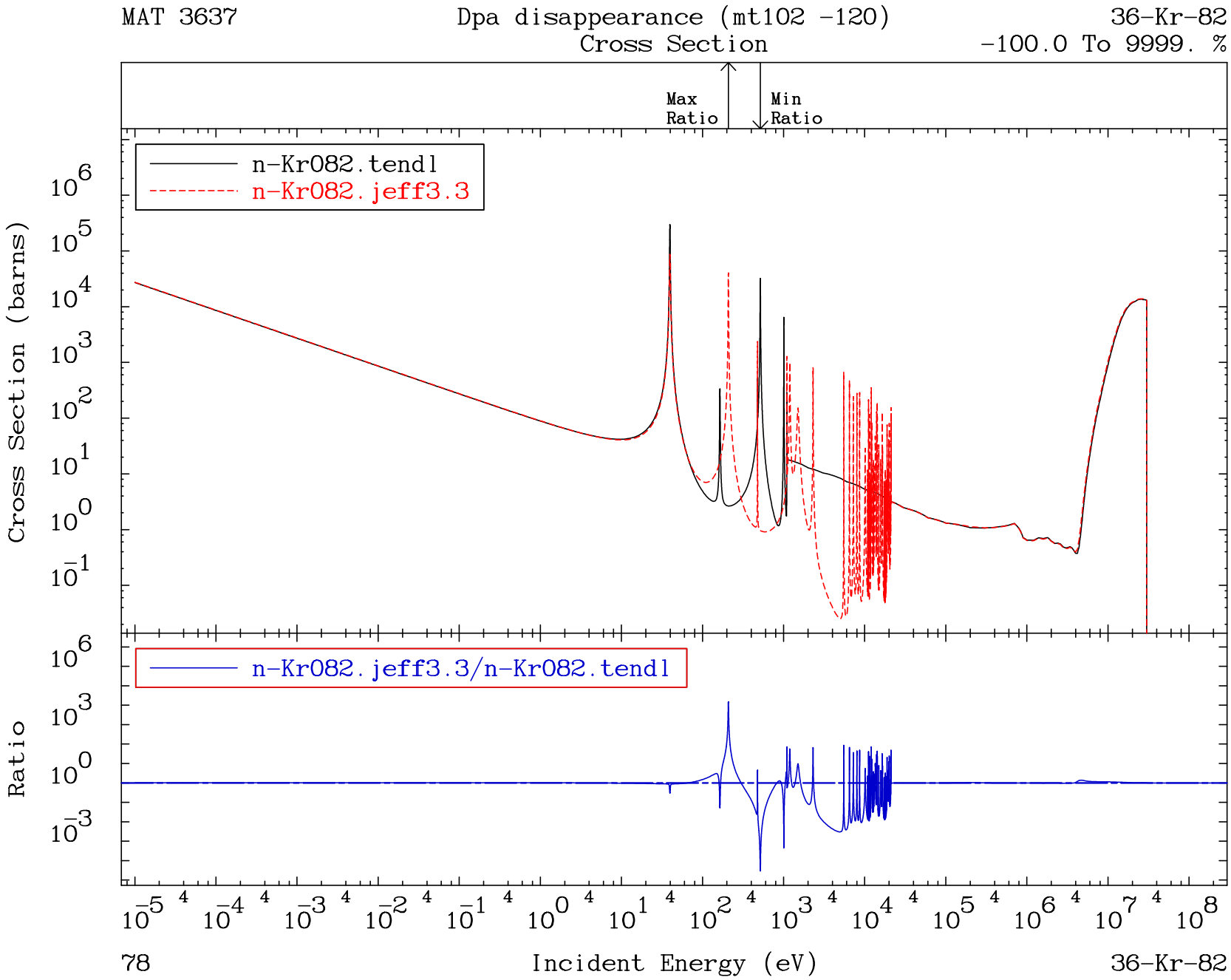

MAT 3637
Total photon (eV-barns)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
73
36-Kr-82

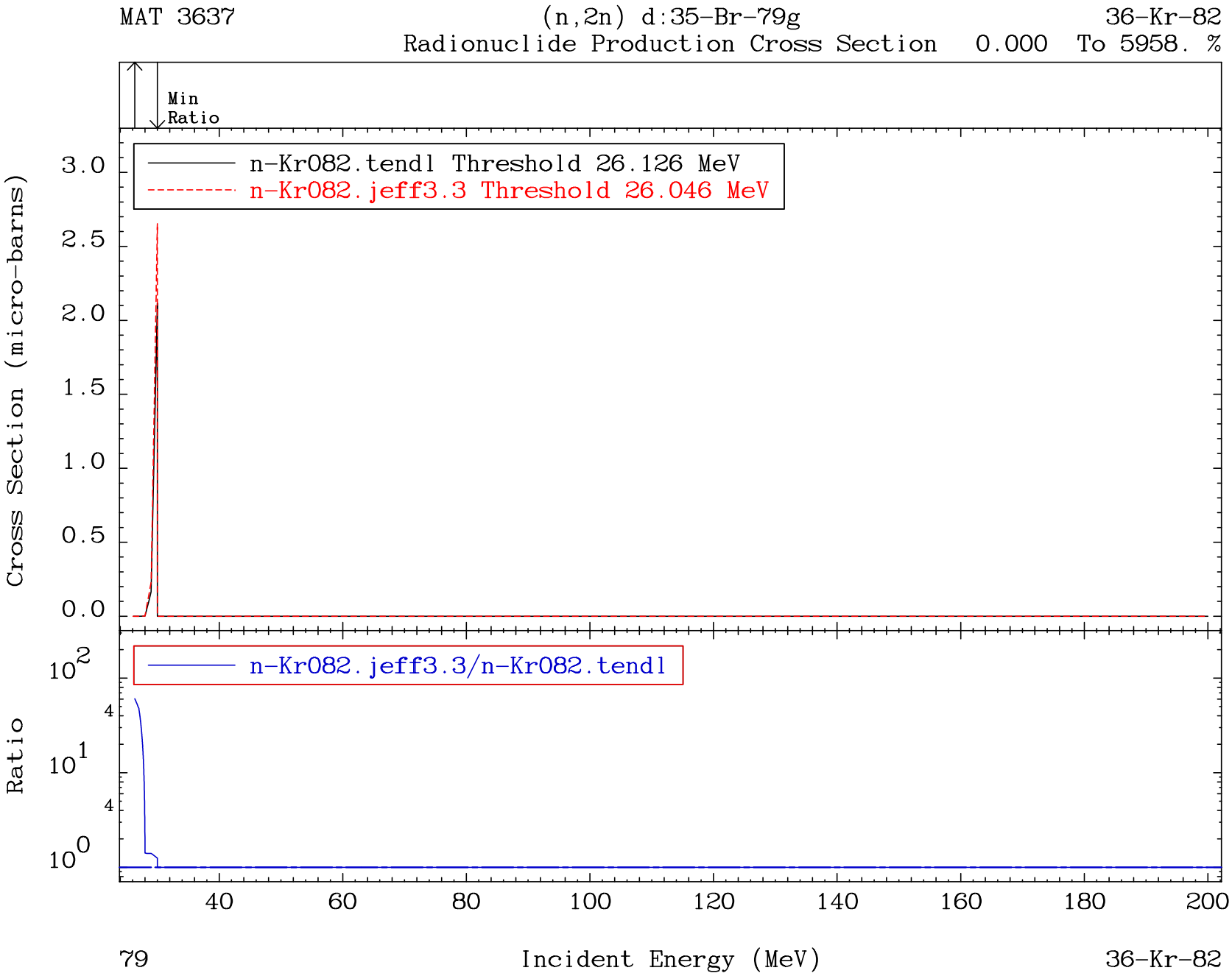

MAT 3637
Total kinematic kerma (high limit)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
74
Incident Energy (eV)
36-Kr-82

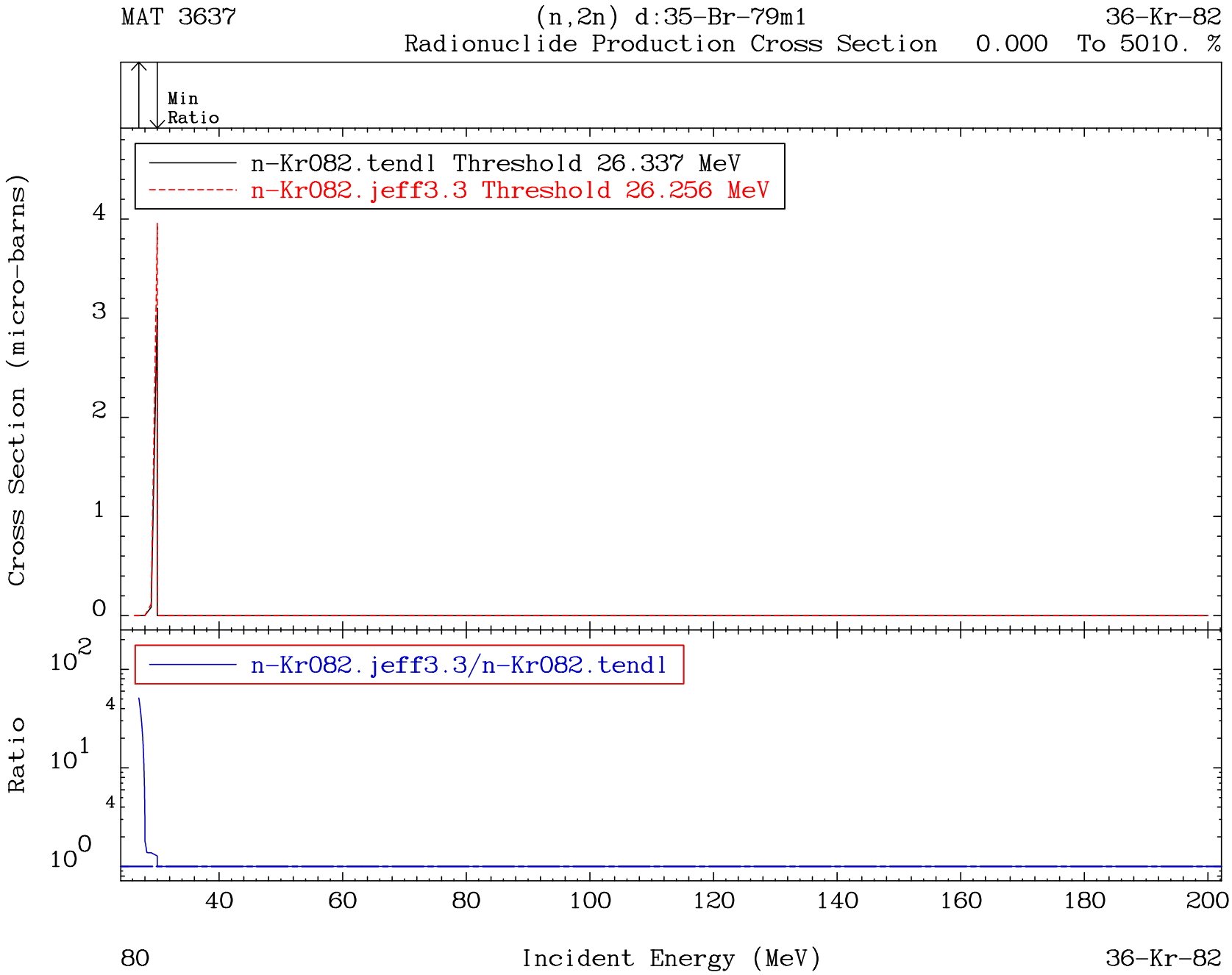

MAT 3637
Dpa total (eV-barns)
Cross Section
36-Kr-82
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
75
36-Kr-82

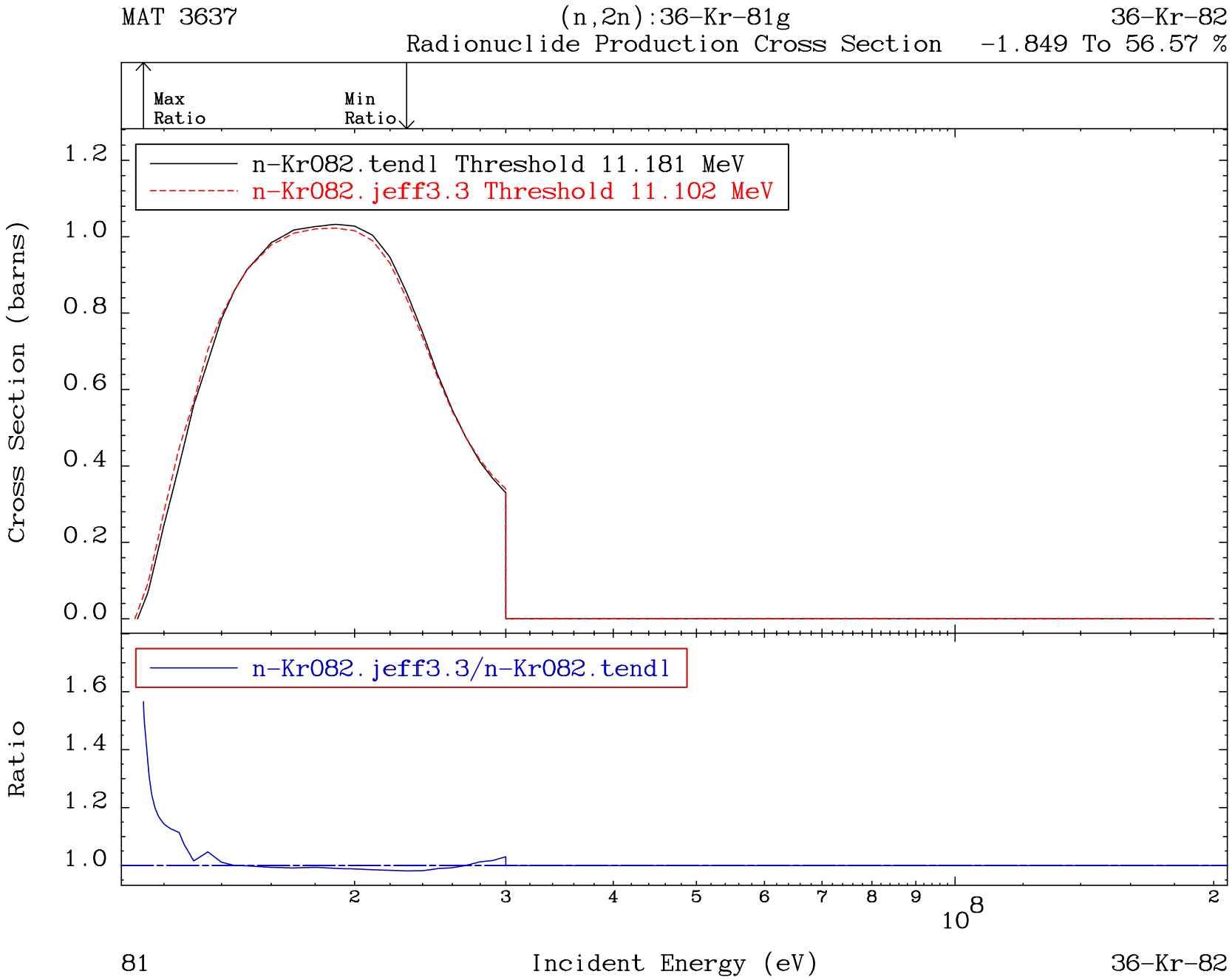

MAT 3637
Dpa elastic (mt2)
Cross Section
36-Kr-82
-99.99 To 9999. %
Max
Ratio
n-Kr082.tendl Threshold 505.47 eV
n-Kr082.jeff3.3 Threshold 509.77 eV
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
76
36-Kr-82

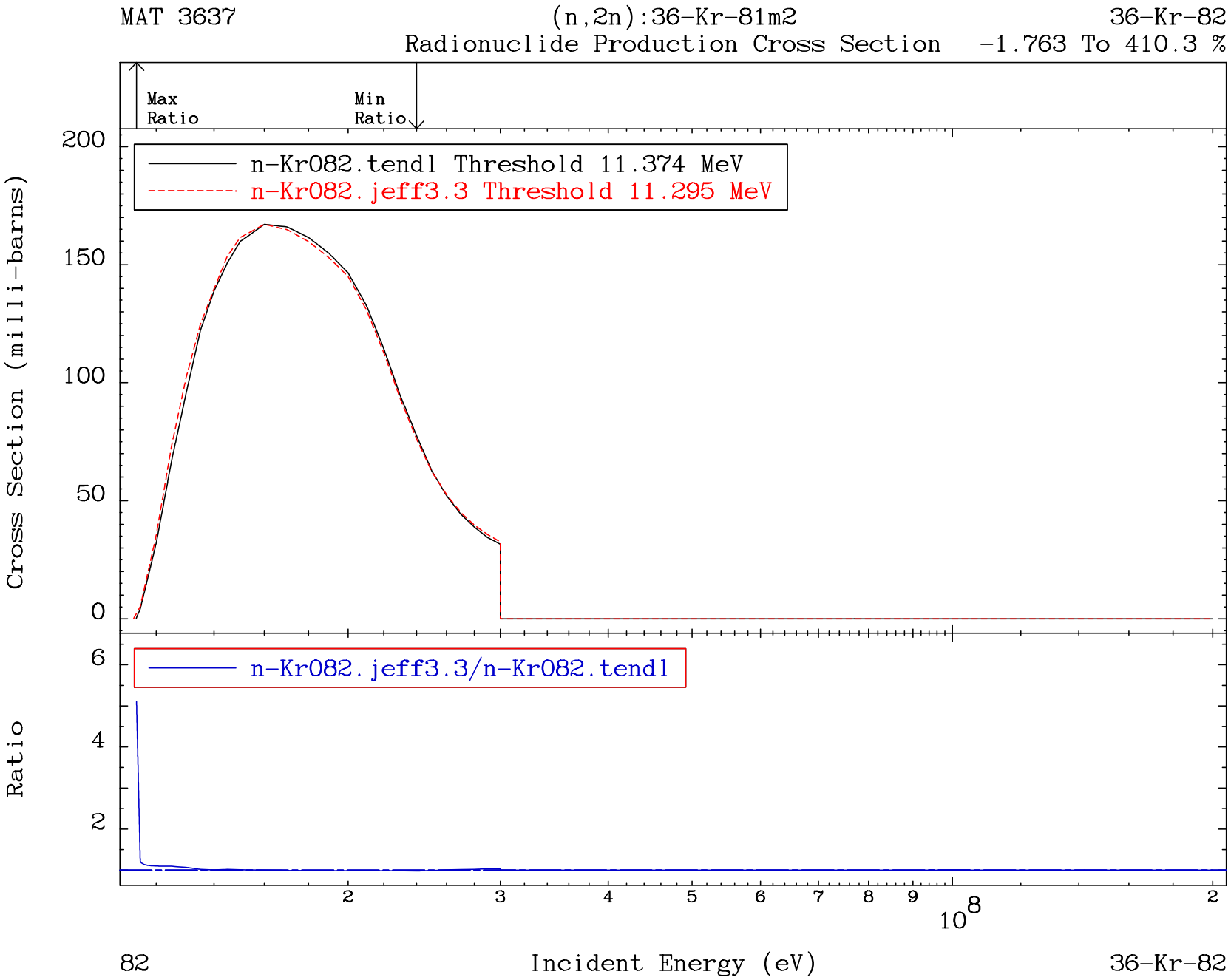

MAT 3637
Dpa inelastic (mt51-91)
Cross Section
36-Kr-82
-4.391 To 1.712 %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 786.08 keV
n-Kr082.jeff3.3 Threshold 786.08 keV
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
77
36-Kr-82

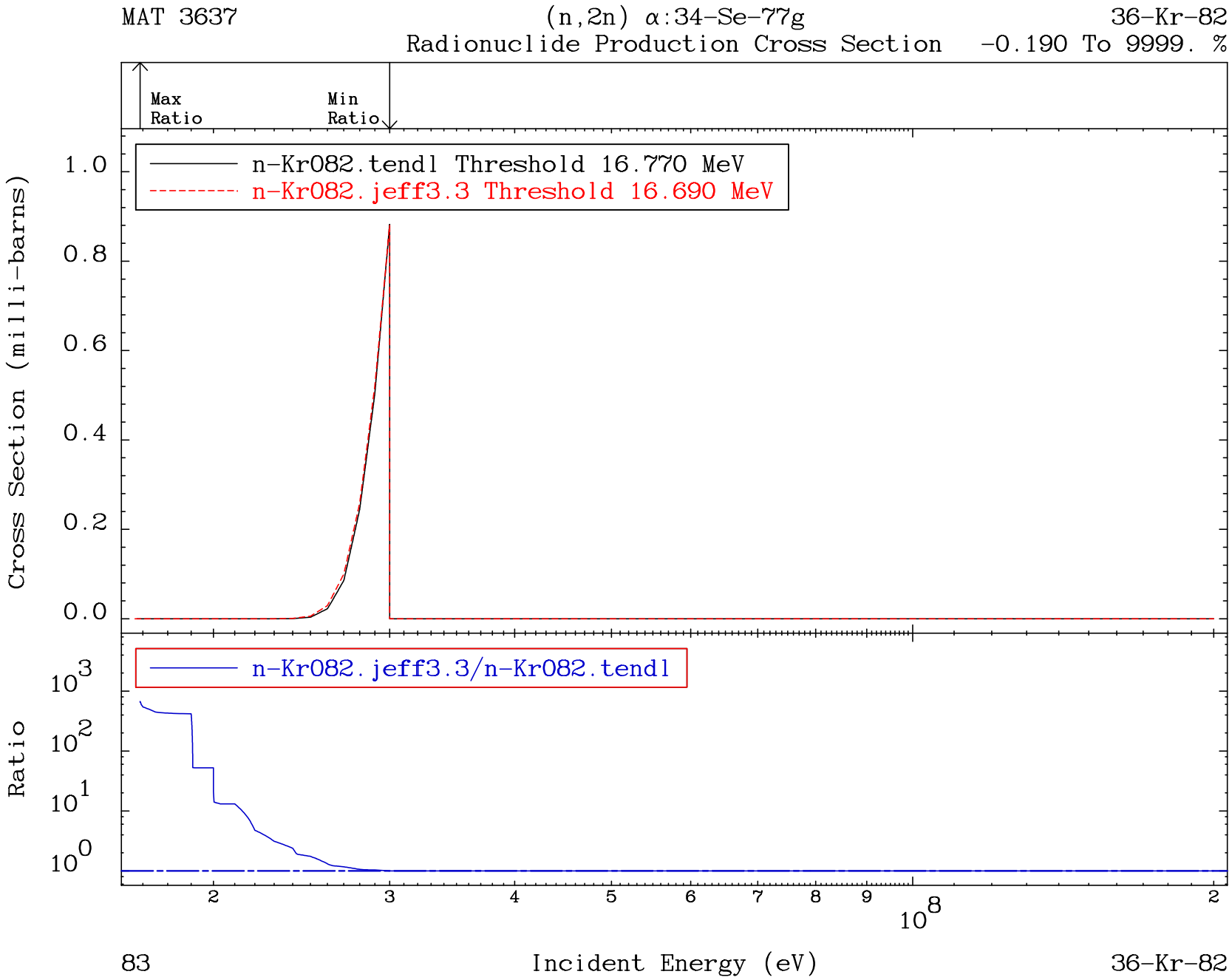

MAT 3637
Dpa disappearance (mt102 -120)
Cross Section
36-Kr-82
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl
n-Kr082.jeff3.3
Cross Section (barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
78
36-Kr-82

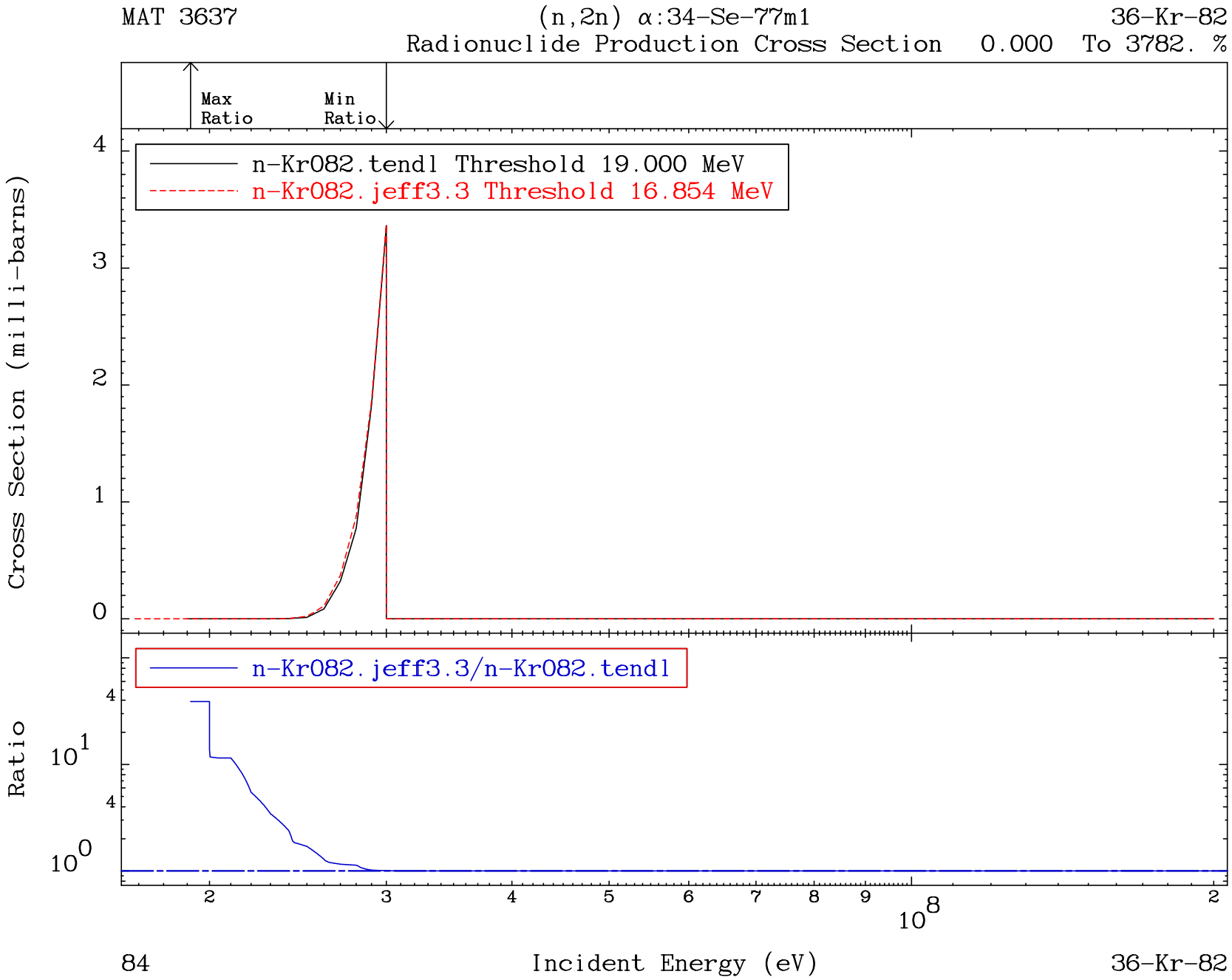

MAT 3637
(n,2n) d:35-Br-79g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 5958. %
Min
Ratio
n-Kr082.tendl Threshold 26.126 MeV
n-Kr082.jeff3.3 Threshold 26.046 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
4
10^1
4
10^0
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
36-Kr-82

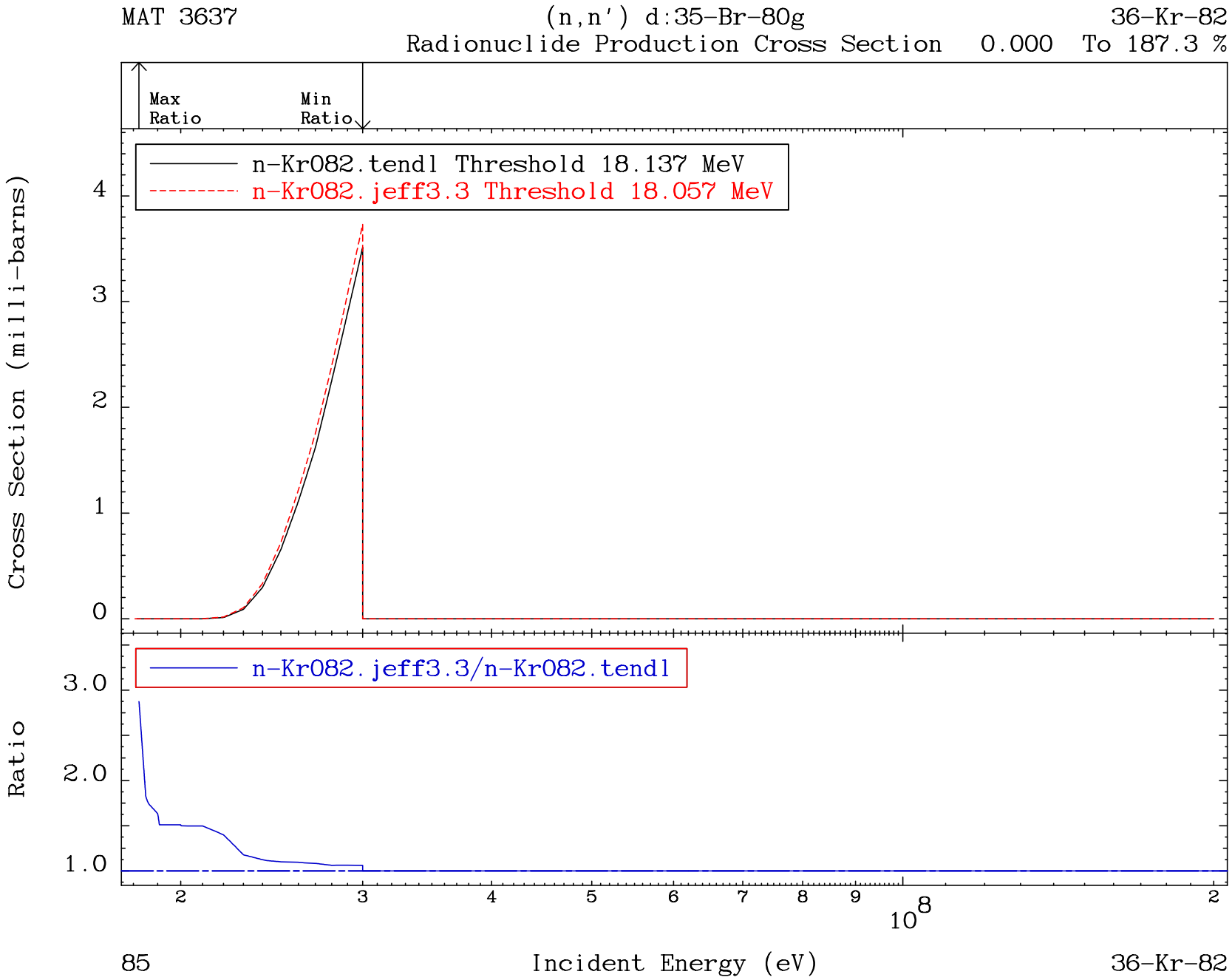

MAT 3637
(n,2n) d:35-Br-79m1
36-Kr-82
Radionuclide Production Cross Section 0.000 To 5010. %
Min Ratio
n-Kr082.tendl Threshold 26.337 MeV
n-Kr082.jeff3.3 Threshold 26.256 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
4
10^1
4
10^0
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
36-Kr-82

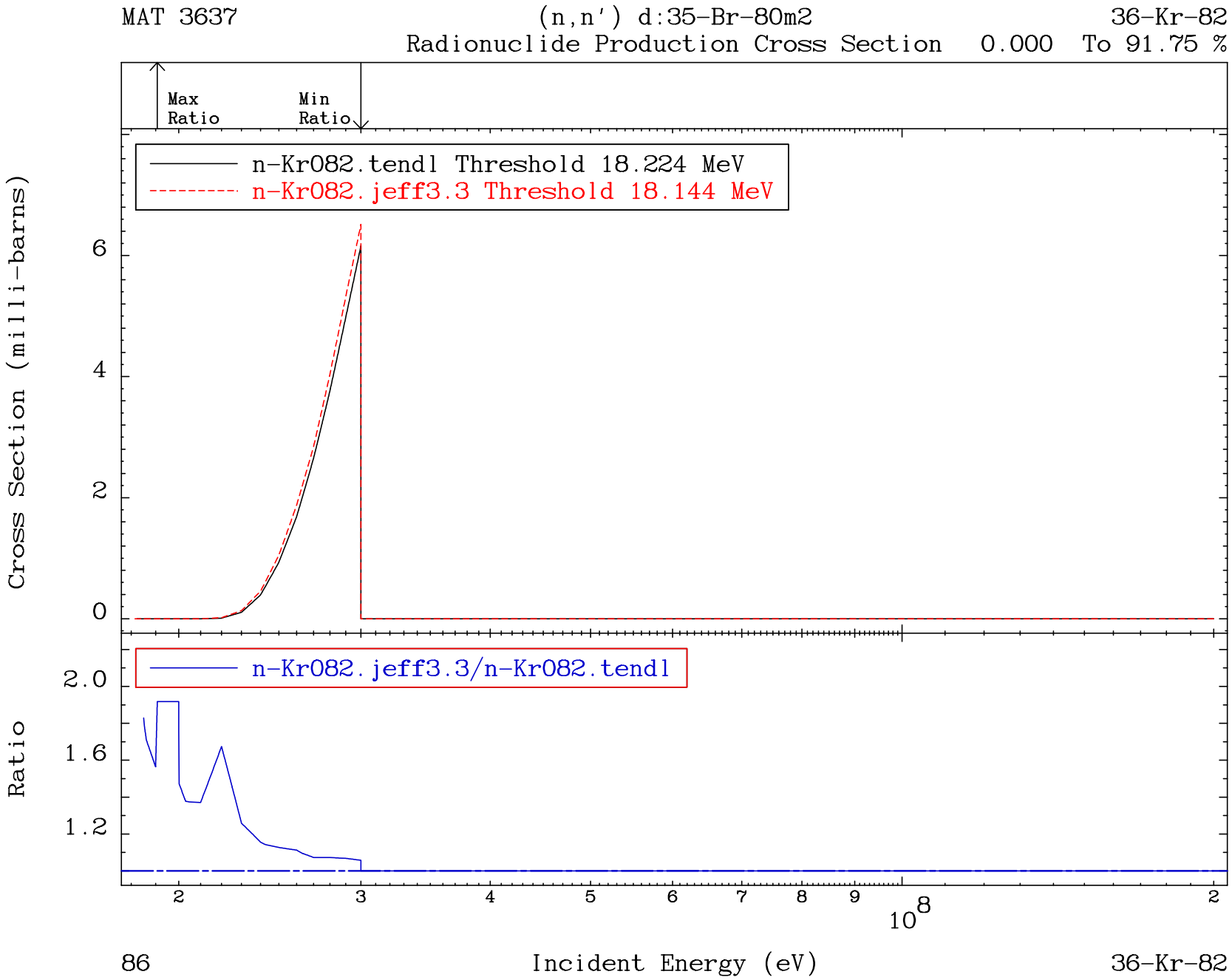

MAT 3637
(n,2n):36-Kr-81g
36-Kr-82
Radionuclide Production Cross Section -1.849 To 56.57 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.181 MeV
n-Kr082.jeff3.3 Threshold 11.102 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.6
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
36-Kr-82

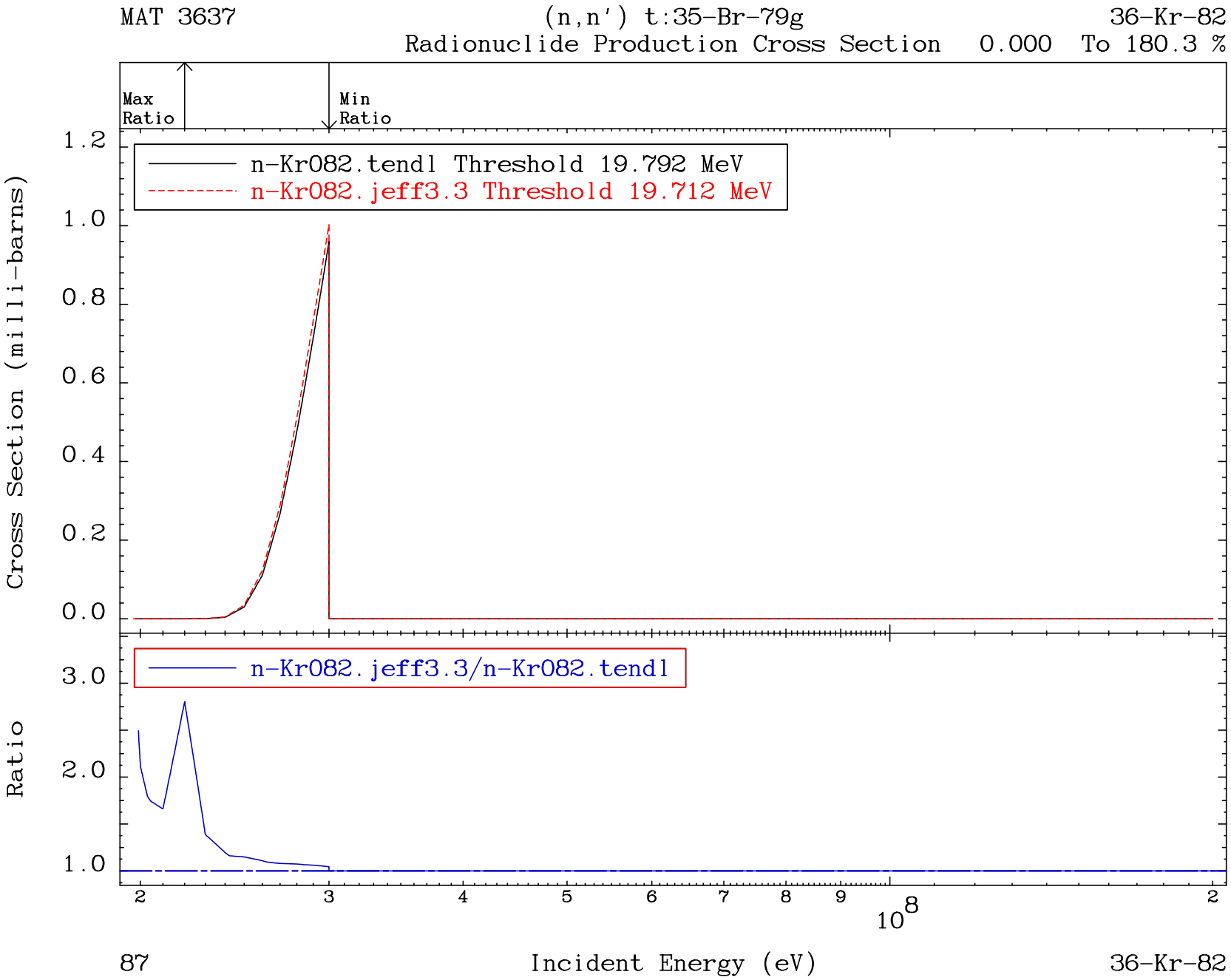

MAT 3637
(n,2n):36-Kr-81m2
36-Kr-82
Radionuclide Production Cross Section -1.763 To 410.3 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.374 MeV
n-Kr082.jeff3.3 Threshold 11.295 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
6
4
2
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
36-Kr-82

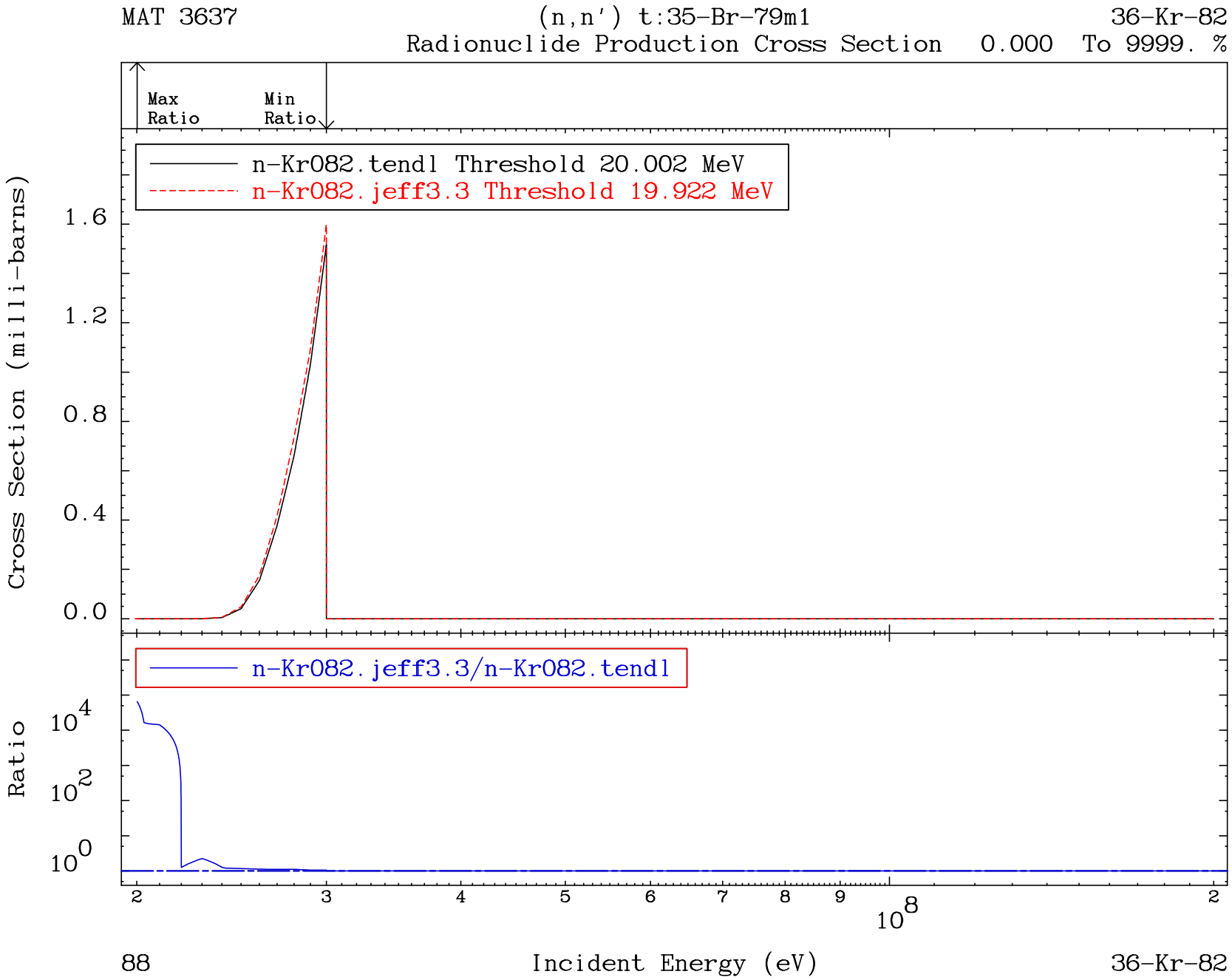

MAT 3637
(n,2n) α:34-Se-77g
36-Kr-82
Radionuclide Production Cross Section -0.190 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 16.770 MeV
n-Kr082.jeff3.3 Threshold 16.690 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
36-Kr-82

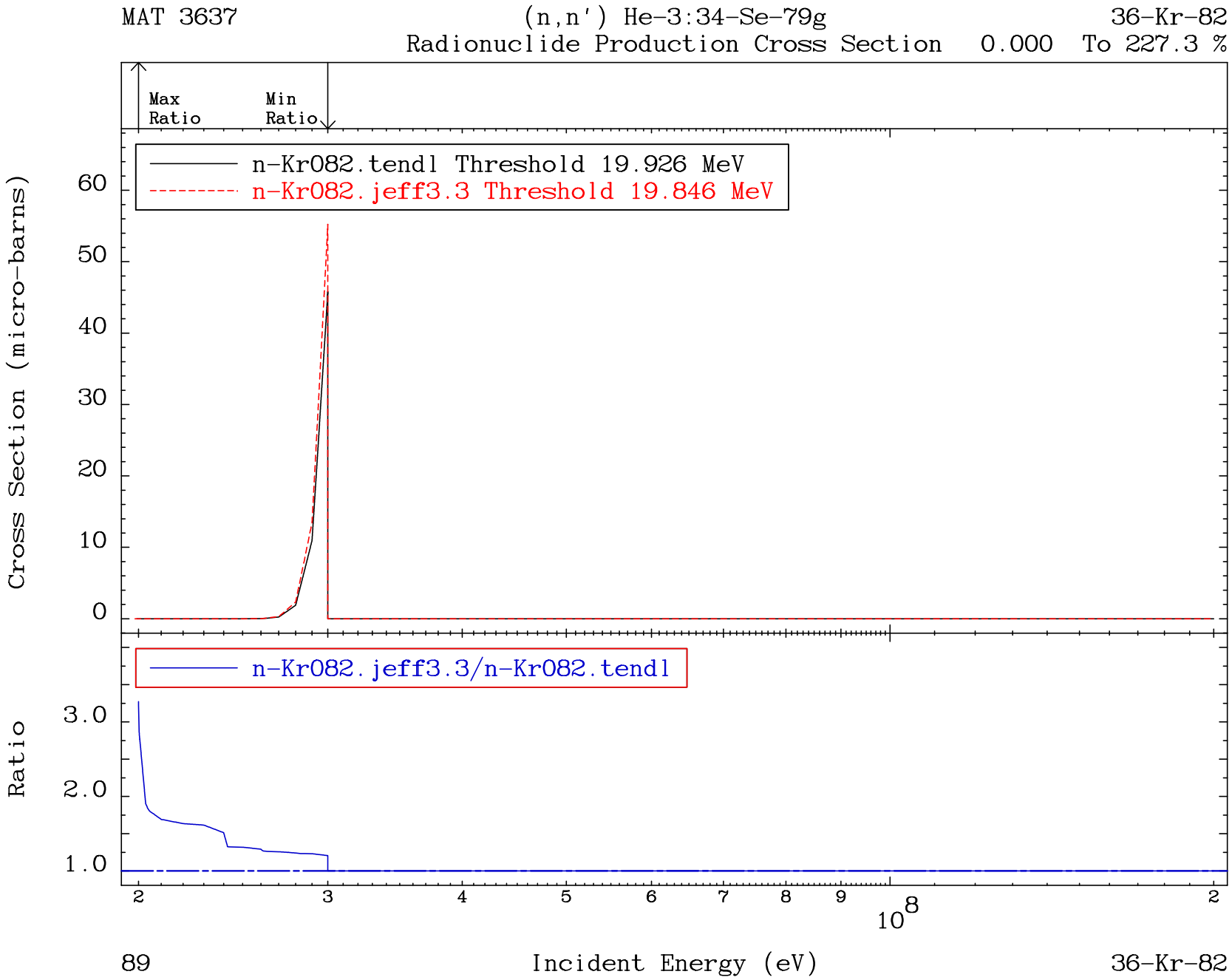

MAT 3637
(n,2n) α:34-Se-77m1
36-Kr-82
Radionuclide Production Cross Section 0.000 To 3782. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.000 MeV
n-Kr082.jeff3.3 Threshold 16.854 MeV
Cross Section (milli-barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
84
36-Kr-82

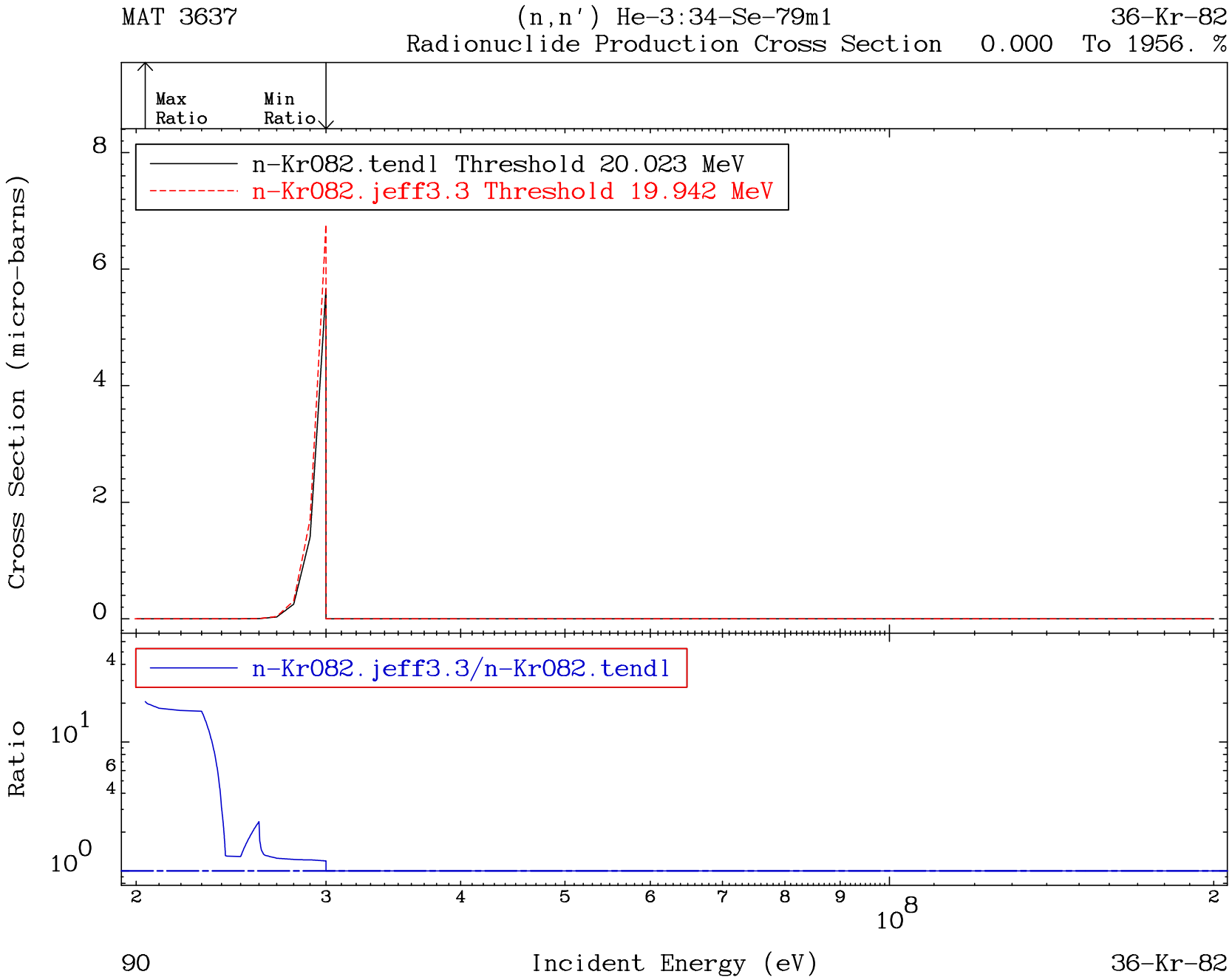

MAT 3637
(n,n') d:35-Br-80g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 187.3 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 18.137 MeV
n-Kr082.jeff3.3 Threshold 18.057 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.0
2.0
3.0
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
36-Kr-82

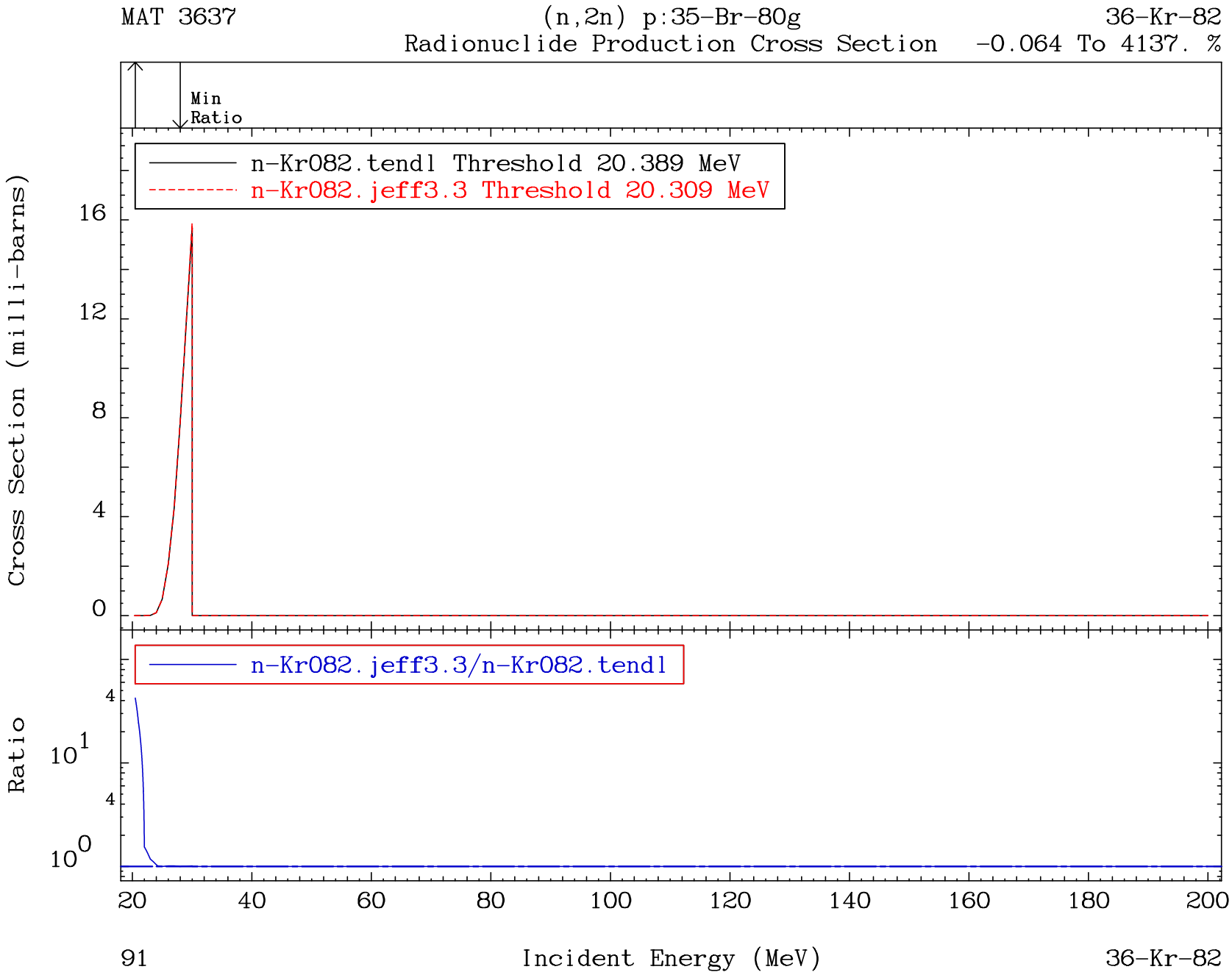

MAT 3637
(n,n') d:35-Br-80m2
36-Kr-82
Radionuclide Production Cross Section 0.000 To 91.75 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 18.224 MeV
n-Kr082.jeff3.3 Threshold 18.144 MeV
Cross Section (milli-barns)
0
2
4
6
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.2
1.6
2.0
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
36-Kr-82

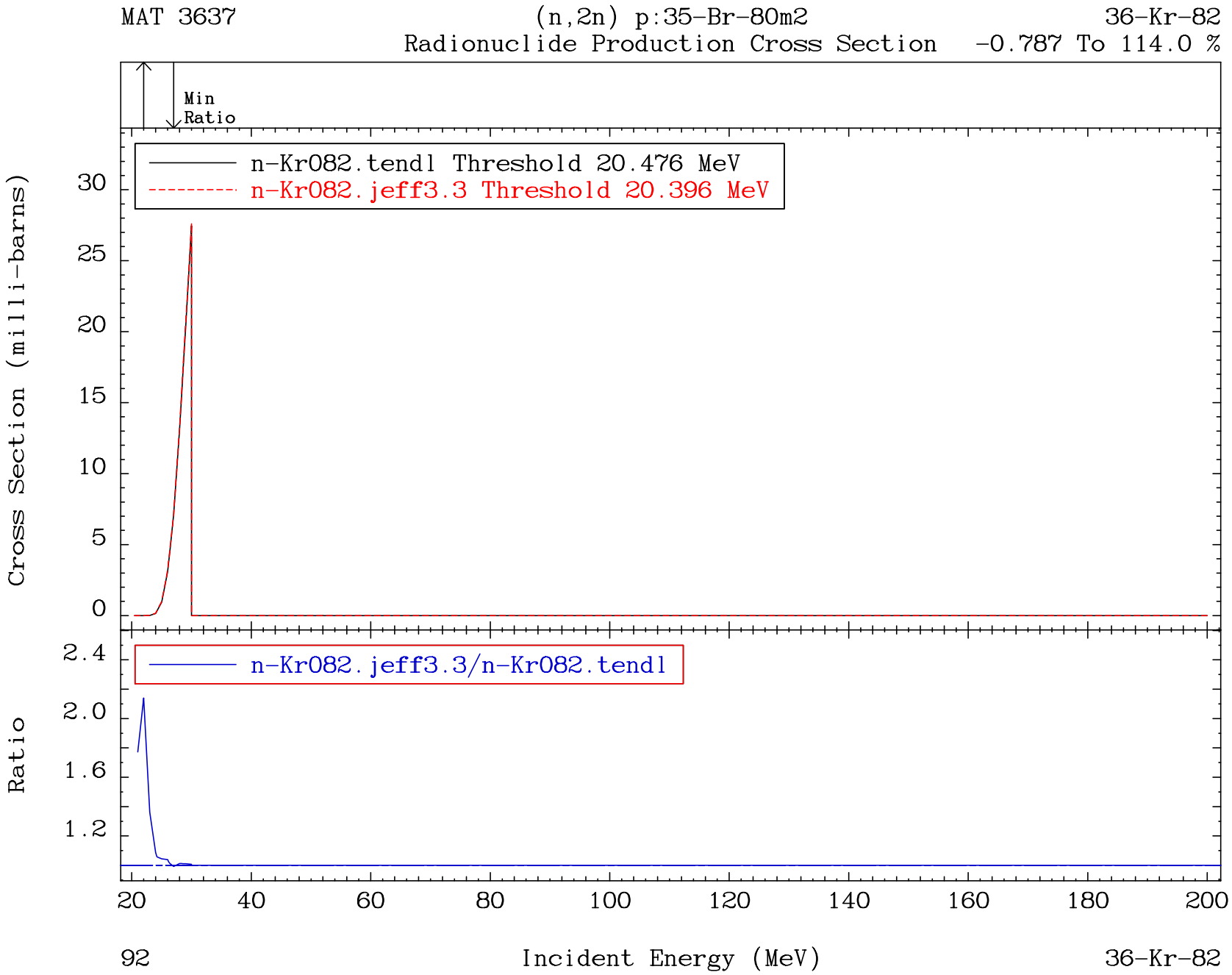

MAT 3637
(n,n') t:35-Br-79g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 180.3 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.792 MeV
n-Kr082.jeff3.3 Threshold 19.712 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
36-Kr-82

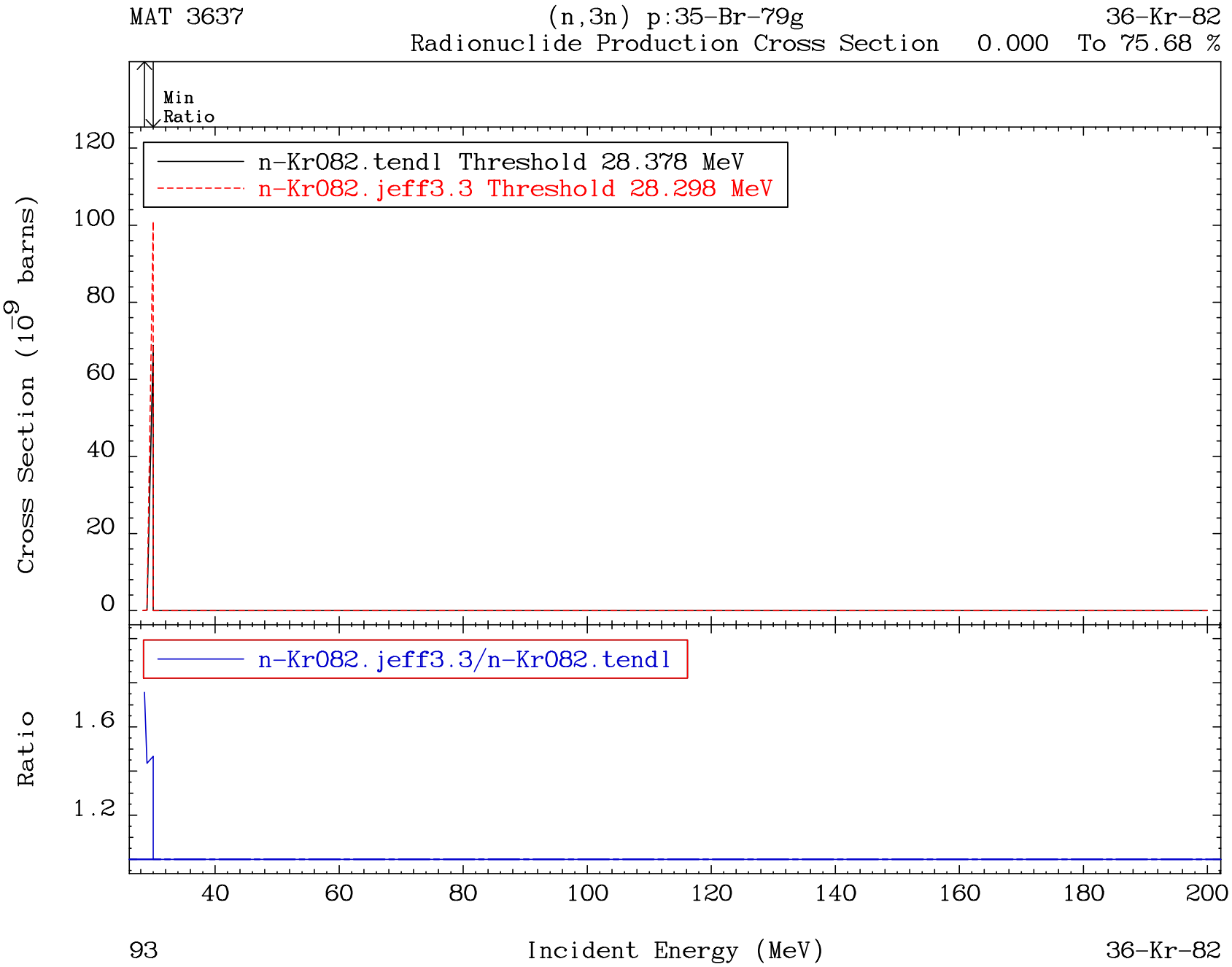

MAT 3637
(n,n') t:35-Br-79m1
36-Kr-82
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 20.002 MeV
n-Kr082.jeff3.3 Threshold 19.922 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
36-Kr-82

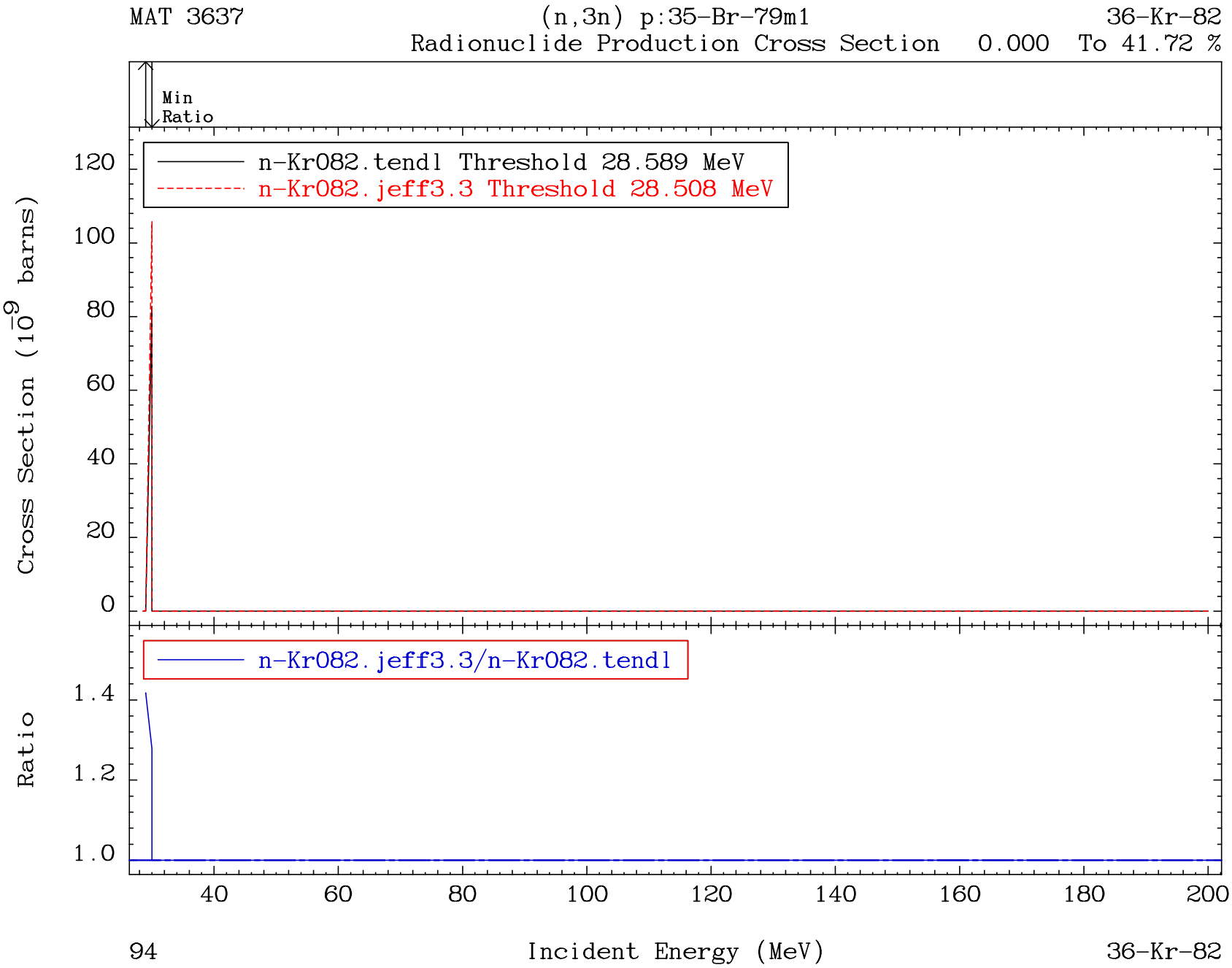

MAT 3637
(n,n') He-3:34-Se-79g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 227.3 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.926 MeV
n-Kr082.jeff3.3 Threshold 19.846 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
36-Kr-82

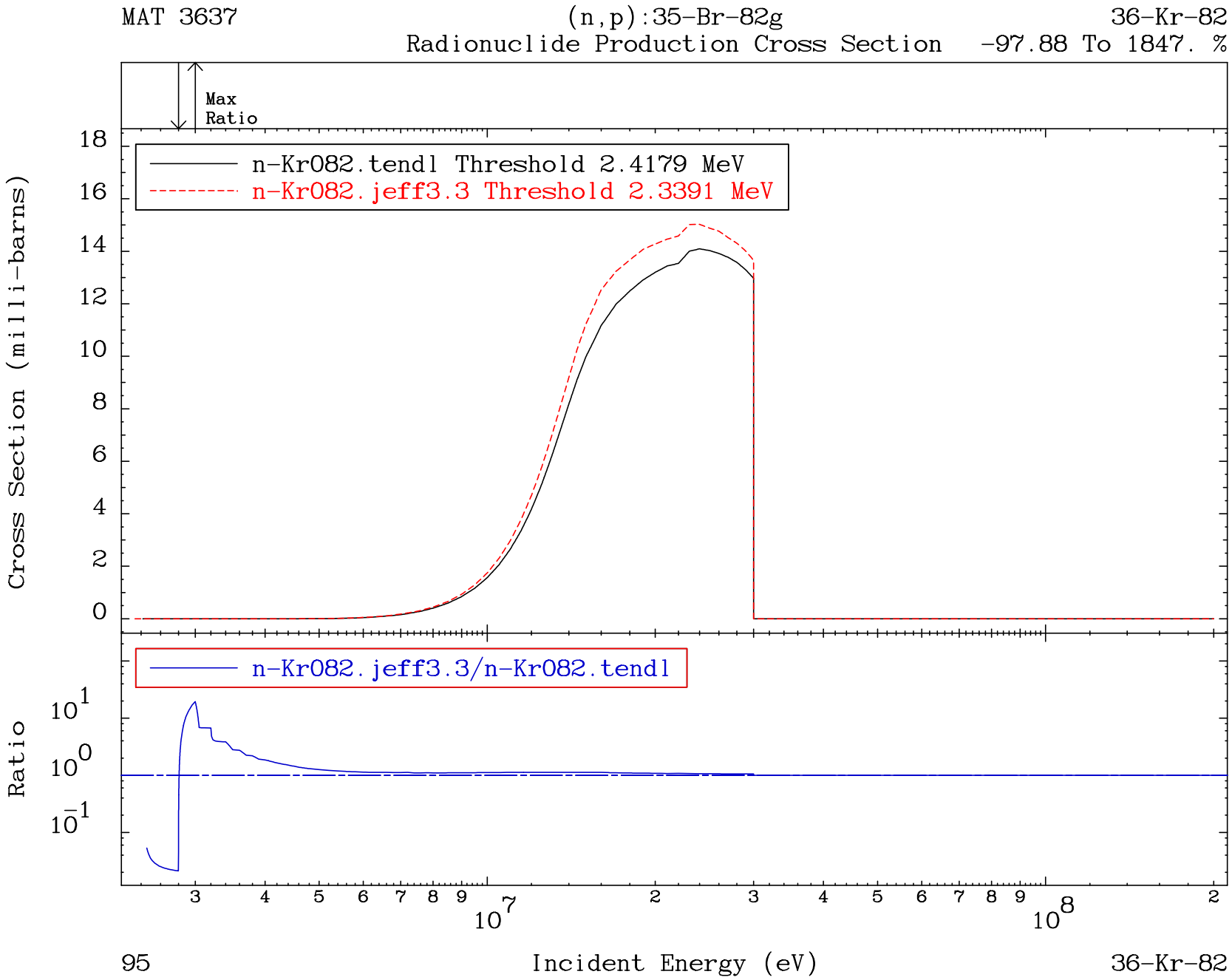

MAT 3637
(n,n') He-3:34-Se-79m1
36-Kr-82
Radionuclide Production Cross Section 0.000 To 1956. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 20.023 MeV
n-Kr082.jeff3.3 Threshold 19.942 MeV
Cross Section (micro-barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
90
36-Kr-82

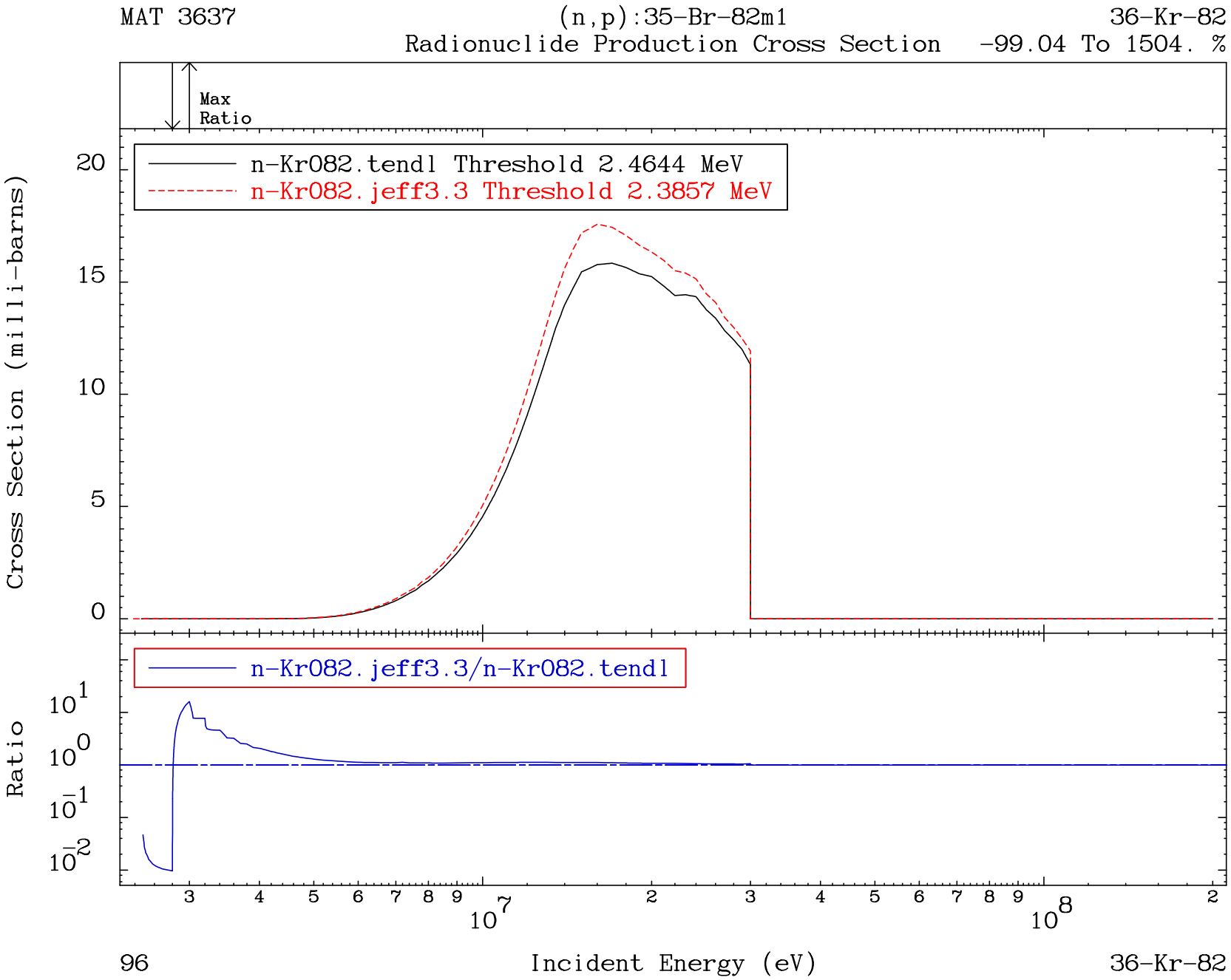

MAT 3637
(n,2n) p:35-Br-80g
36-Kr-82
Radionuclide Production Cross Section -0.064 To 4137. %
Min Ratio
n-Kr082.tendl Threshold 20.389 MeV
n-Kr082.jeff3.3 Threshold 20.309 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
4
4
10^0
20
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
36-Kr-82

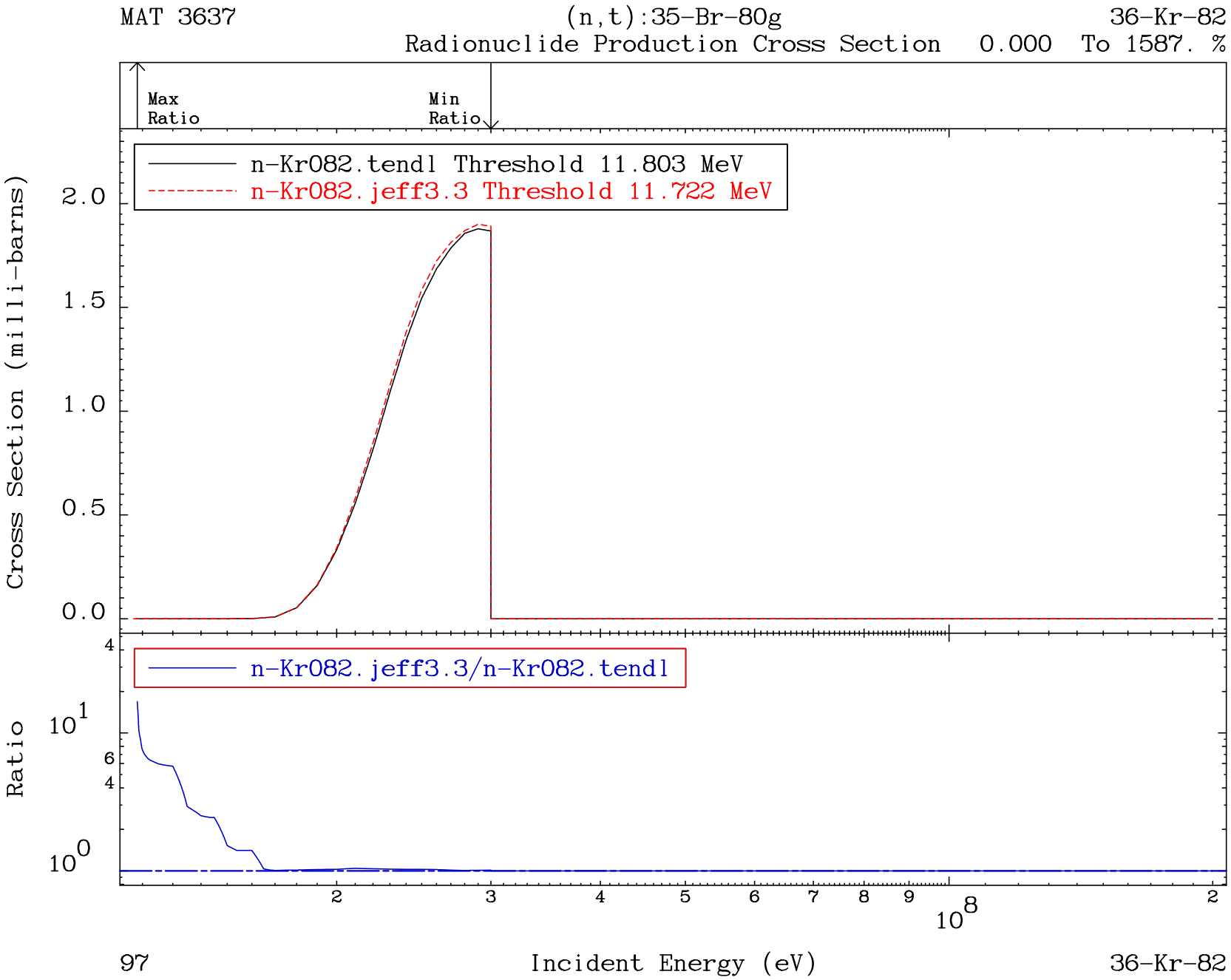

MAT 3637
(n,2n) p:35-Br-80m2
36-Kr-82
Radionuclide Production Cross Section -0.787 To 114.0 %
Min
Ratio
n-Kr082.tendl Threshold 20.476 MeV
n-Kr082.jeff3.3 Threshold 20.396 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
2.4
2.0
1.6
1.2
20
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
36-Kr-82

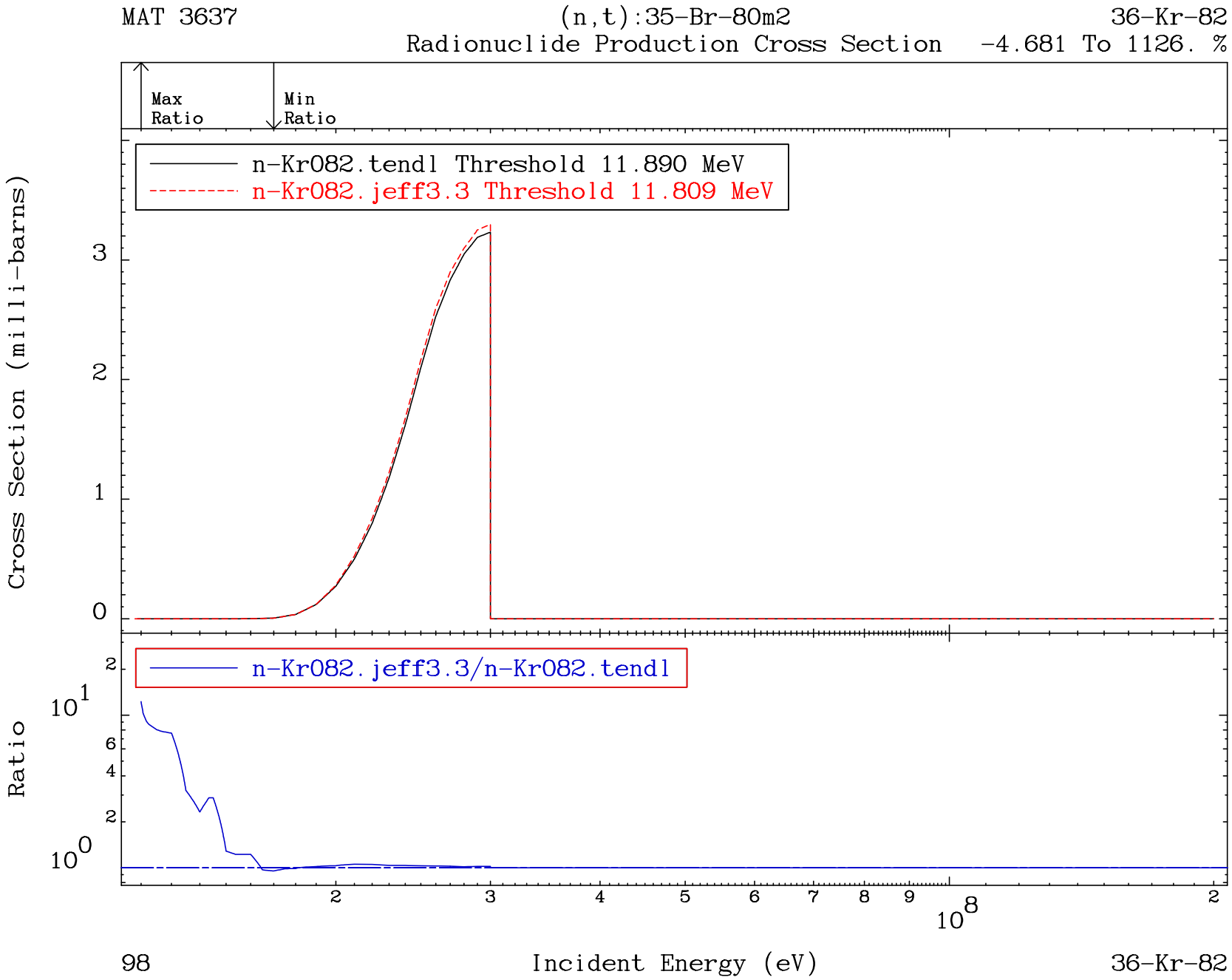

MAT 3637
(n,3n) p:35-Br-79g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 75.68 %
Min
Ratio
n-Kr082.tendl Threshold 28.378 MeV
n-Kr082.jeff3.3 Threshold 28.298 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.6
1.2
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
36-Kr-82

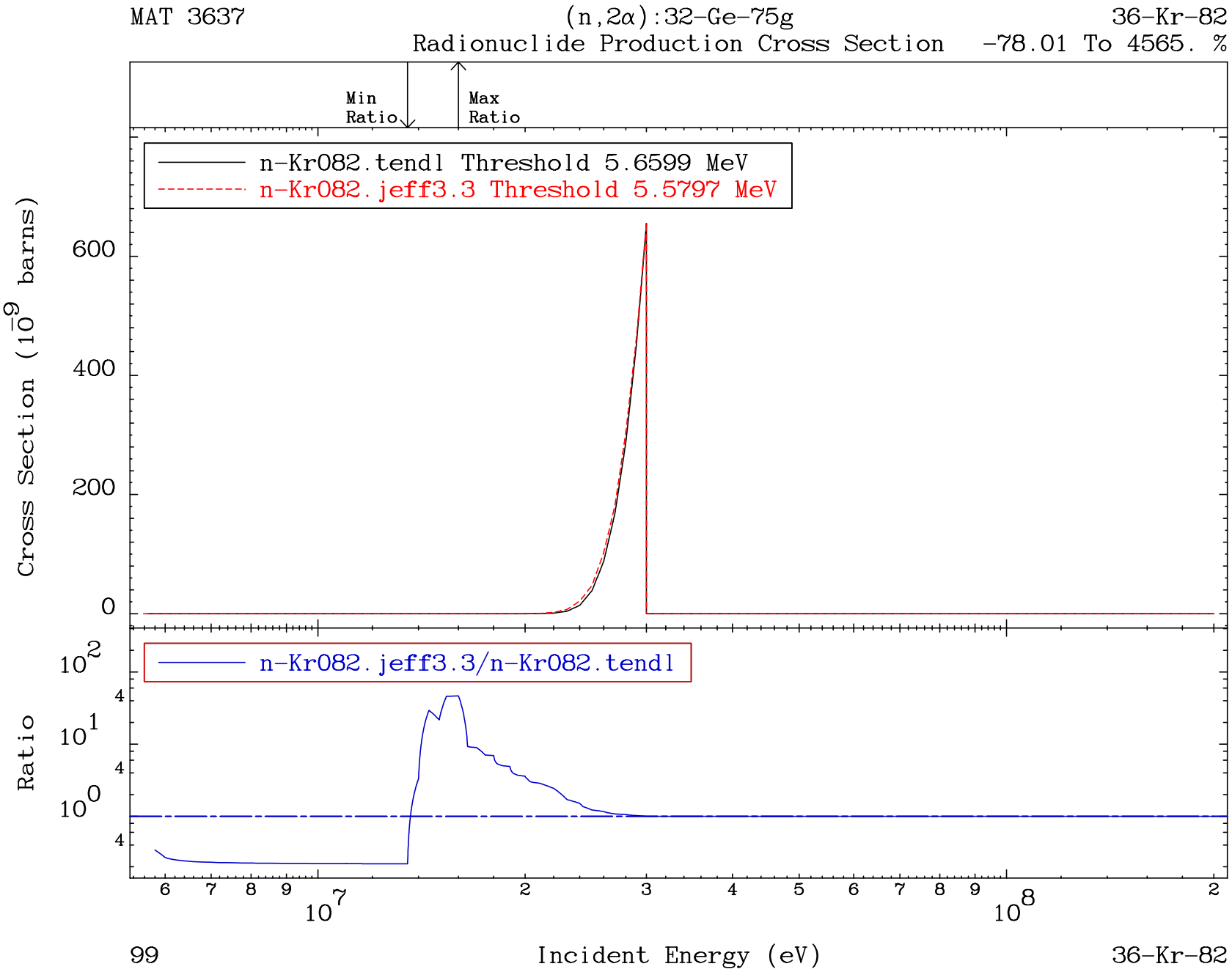

MAT 3637
(n,3n) p:35-Br-79m1
36-Kr-82
Radionuclide Production Cross Section 0.000 To 41.72 %
Min Ratio
n-Kr082.tendl Threshold 28.589 MeV
n-Kr082.jeff3.3 Threshold 28.508 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
1.4
1.2
1.0
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
36-Kr-82

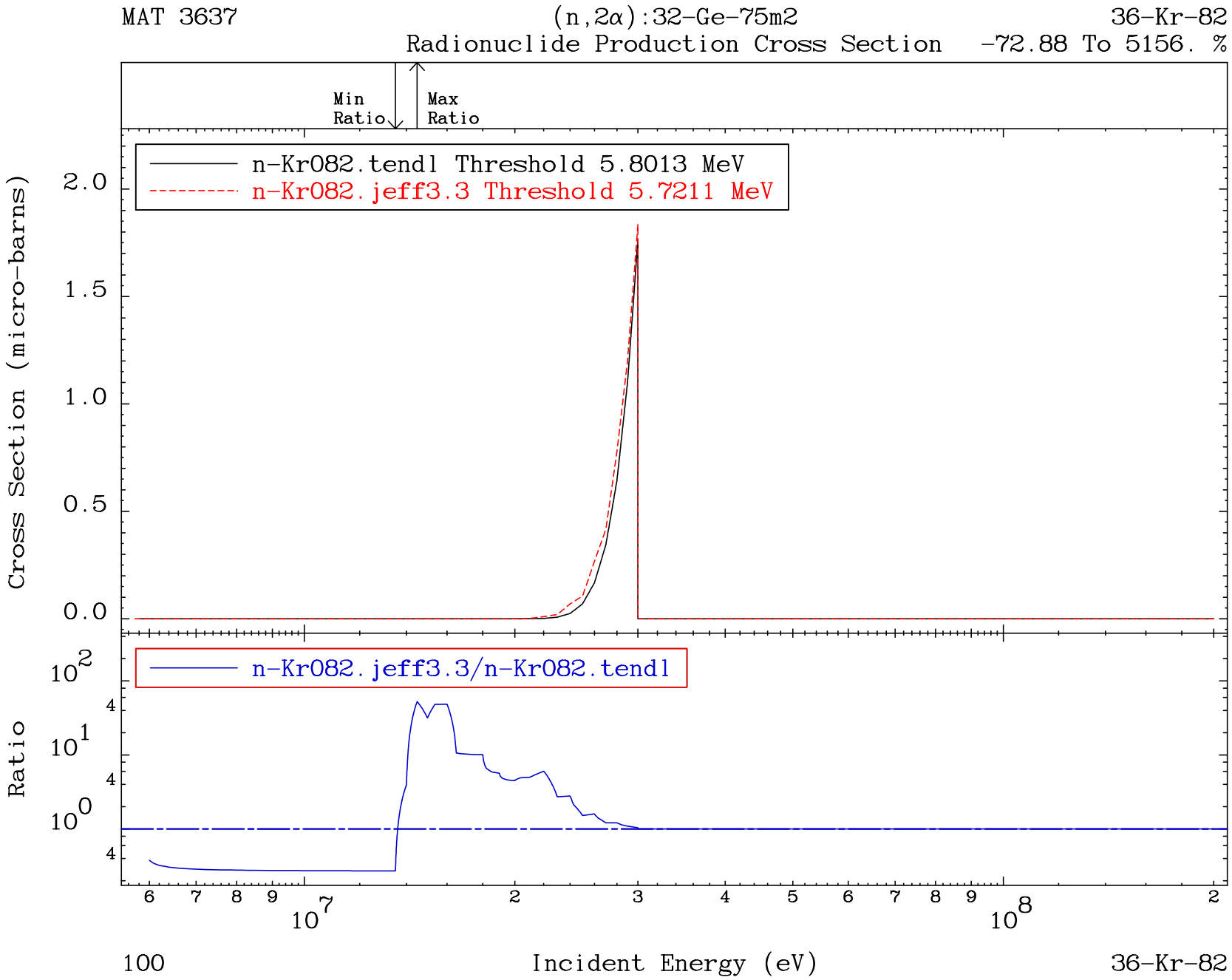

MAT 3637
(n,p):35-Br-82g
36-Kr-82
Radionuclide Production Cross Section -97.88 To 1847. %
Max
Ratio
n-Kr082.tendl Threshold 2.4179 MeV
n-Kr082.jeff3.3 Threshold 2.3391 MeV
Cross Section (milli-barns)
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
Incident Energy (eV)
95
36-Kr-82

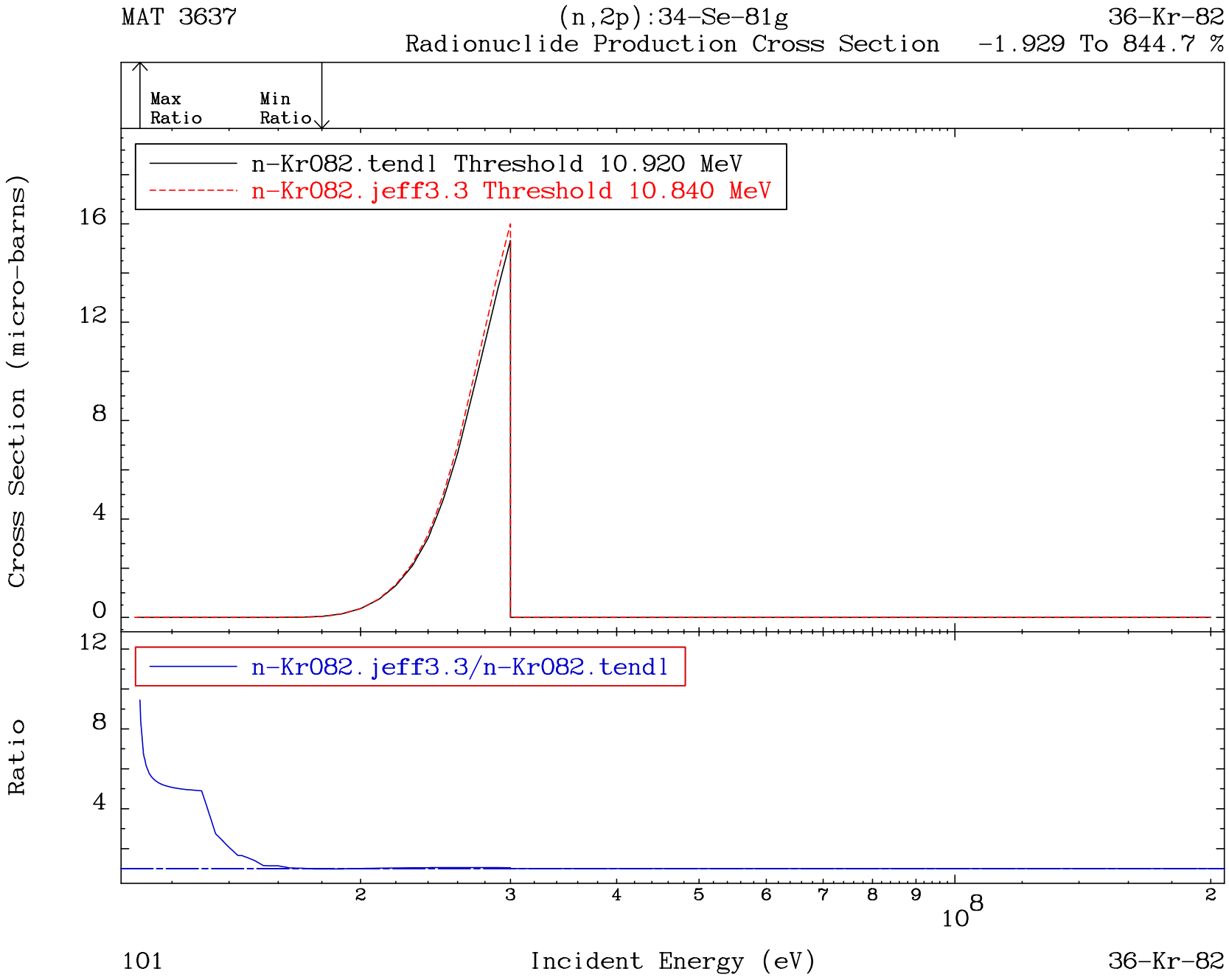

MAT 3637
(n,p):35-Br-82m1
36-Kr-82
Radionuclide Production Cross Section -99.04 To 1504. %
Max
Ratio
n-Kr082.tendl Threshold 2.4644 MeV
n-Kr082.jeff3.3 Threshold 2.3857 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
36-Kr-82

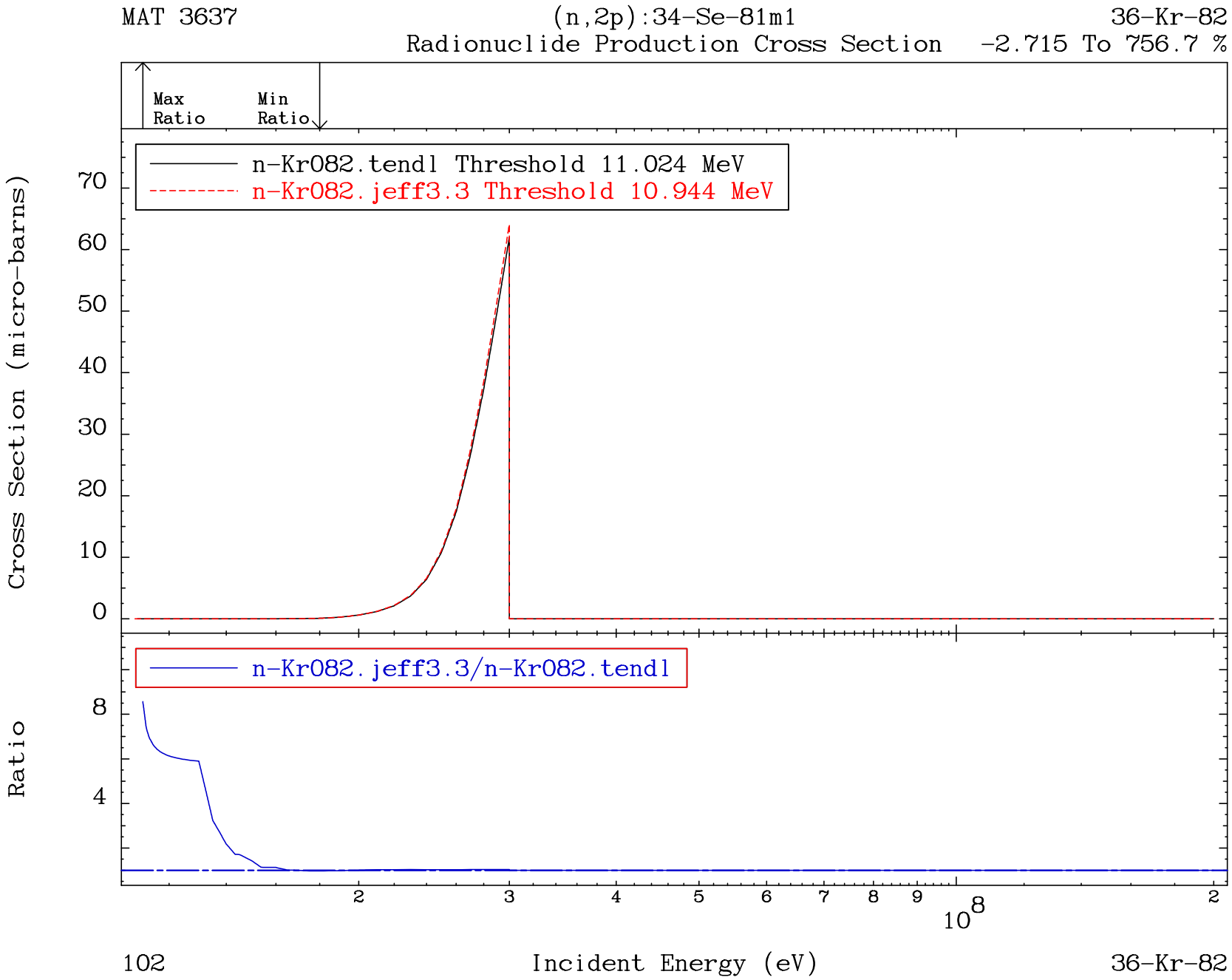

MAT 3637
(n,t):35-Br-80g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 1587. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.803 MeV
n-Kr082.jeff3.3 Threshold 11.722 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4
10^1
6
4
10^0
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
36-Kr-82

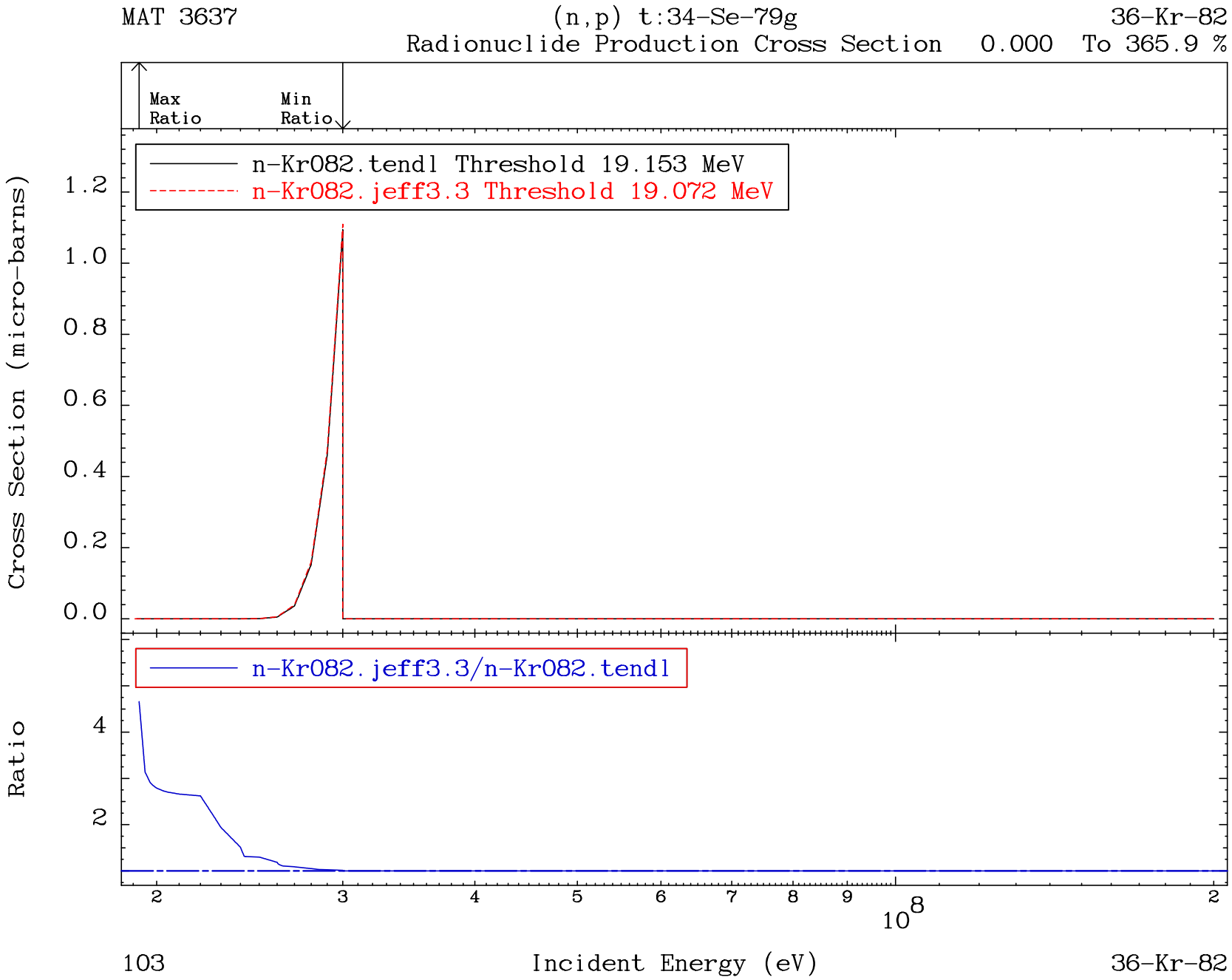

MAT 3637
(n,t):35-Br-80m2
36-Kr-82
Radionuclide Production Cross Section -4.681 To 1126. %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.890 MeV
n-Kr082.jeff3.3 Threshold 11.809 MeV
Cross Section (milli-barns)
0
1
2
3
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
36-Kr-82

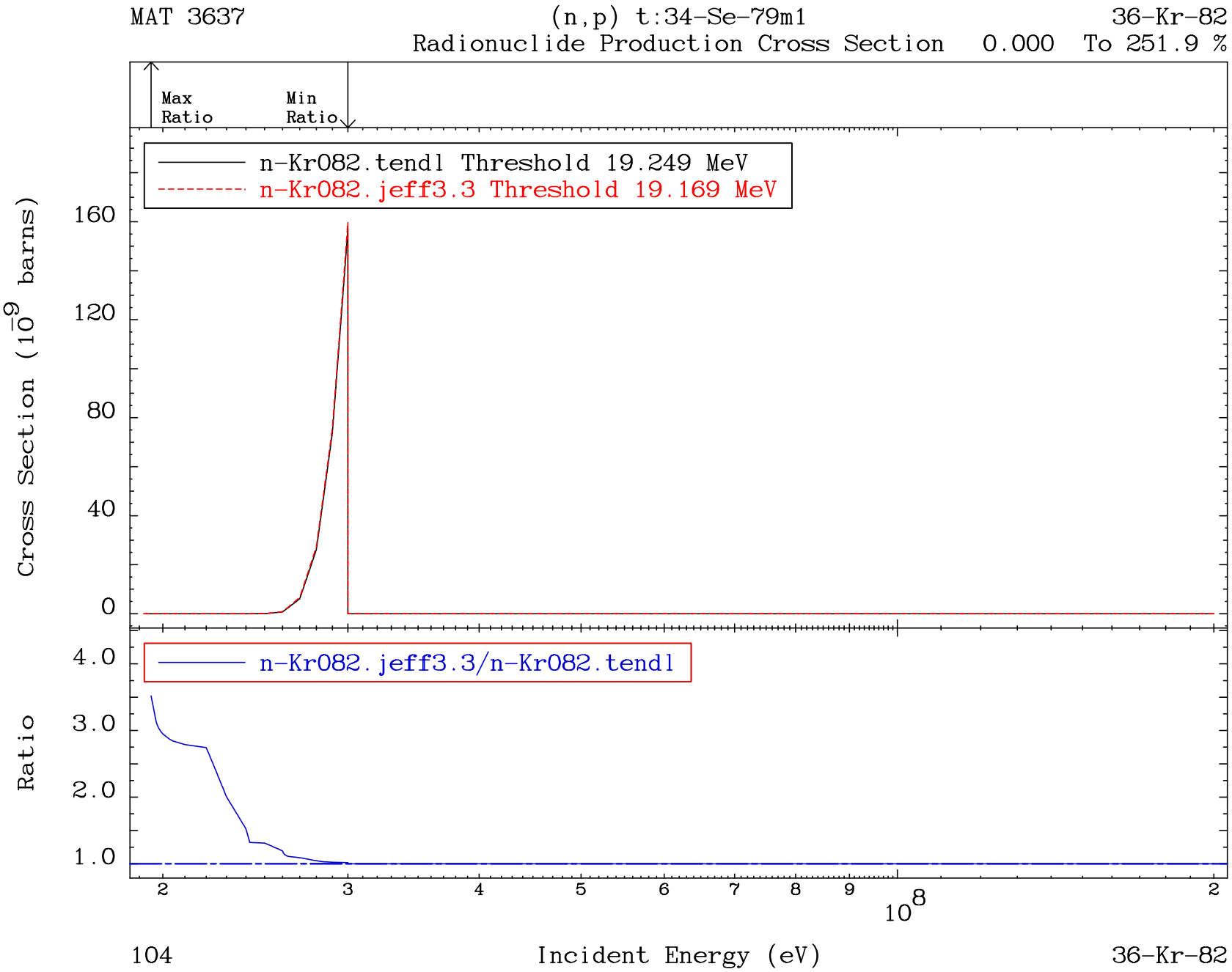

MAT 3637
(n,2α):32-Ge-75g
36-Kr-82
Radionuclide Production Cross Section -78.01 To 4565. %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 5.6599 MeV
n-Kr082.jeff3.3 Threshold 5.5797 MeV
Cross Section (10^{-9} barns)
600
400
200
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^{2}
10^{1}
10^{0}
6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
99
Incident Energy (eV)
36-Kr-82


MAT 3637
(n,2α):32-Ge-75m2
36-Kr-82
Radionuclide Production Cross Section -72.88 To 5156. %
Min Ratio
Max Ratio
n-Kr082.tendl Threshold 5.8013 MeV
n-Kr082.jeff3.3 Threshold 5.7211 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
10^2
10^1
10^0
4
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
100
Incident Energy (eV)
36-Kr-82


MAT 3637
(n,2p):34-Se-81g
36-Kr-82
Radionuclide Production Cross Section -1.929 To 844.7 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 10.920 MeV
n-Kr082.jeff3.3 Threshold 10.840 MeV
Cross Section (micro-barns)
16
12
8
4
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
12
8
4
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
36-Kr-82


MAT 3637
(n,2p):34-Se-81m1
36-Kr-82
Radionuclide Production Cross Section -2.715 To 756.7 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 11.024 MeV
n-Kr082.jeff3.3 Threshold 10.944 MeV
Cross Section (micro-barns)
70
60
50
40
30
20
10
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
36-Kr-82


MAT 3637
(n,p) t:34-Se-79g
36-Kr-82
Radionuclide Production Cross Section 0.000 To 365.9 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.153 MeV
n-Kr082.jeff3.3 Threshold 19.072 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
36-Kr-82


MAT 3637
(n,p) t:34-Se-79m1
36-Kr-82
Radionuclide Production Cross Section 0.000 To 251.9 %
Max Ratio
Min Ratio
n-Kr082.tendl Threshold 19.249 MeV
n-Kr082.jeff3.3 Threshold 19.169 MeV
Cross Section (10^{-9} barns)
160
120
80
40
0
n-Kr082.jeff3.3/n-Kr082.tendl
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
104
Incident Energy (eV)
36-Kr-82