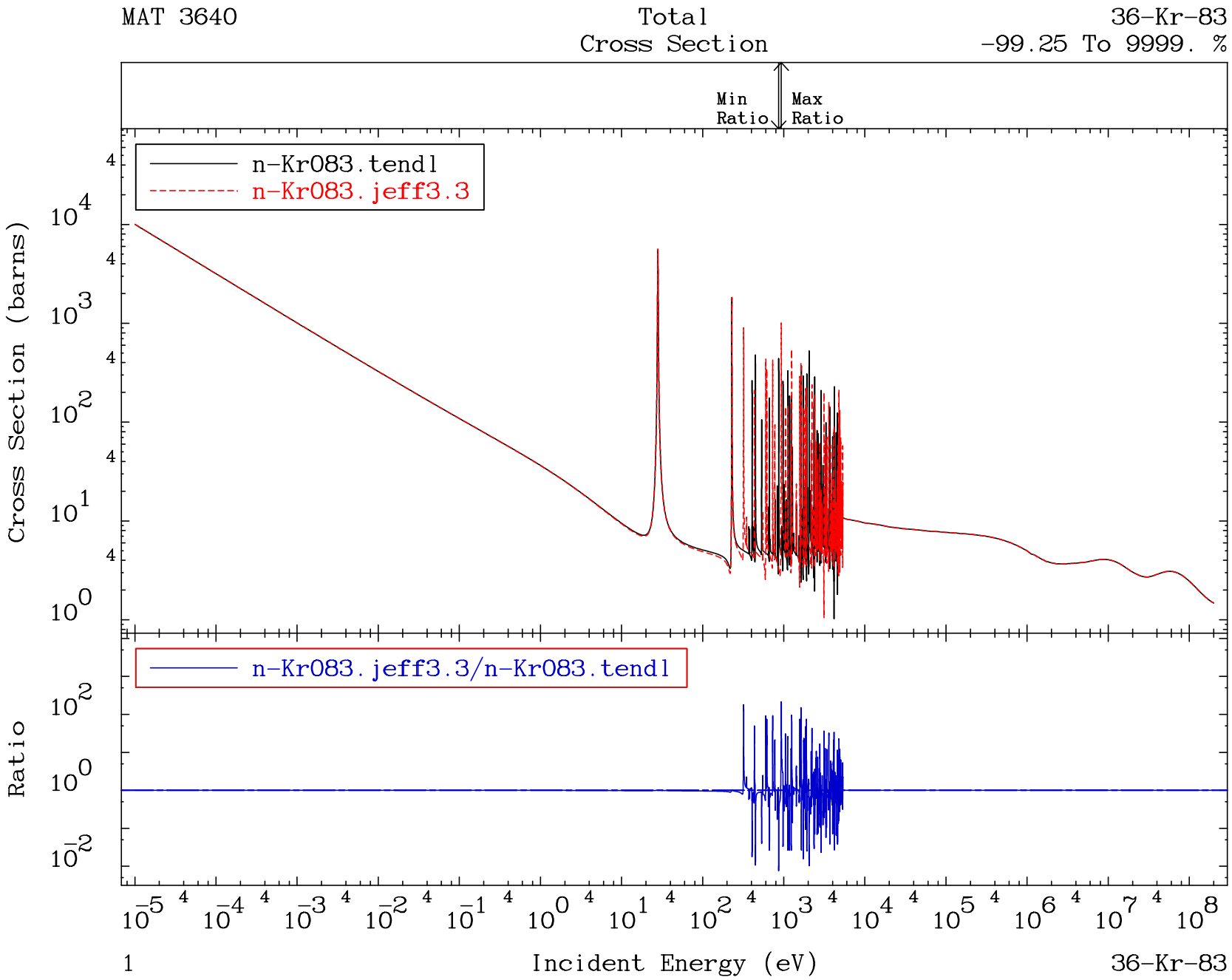
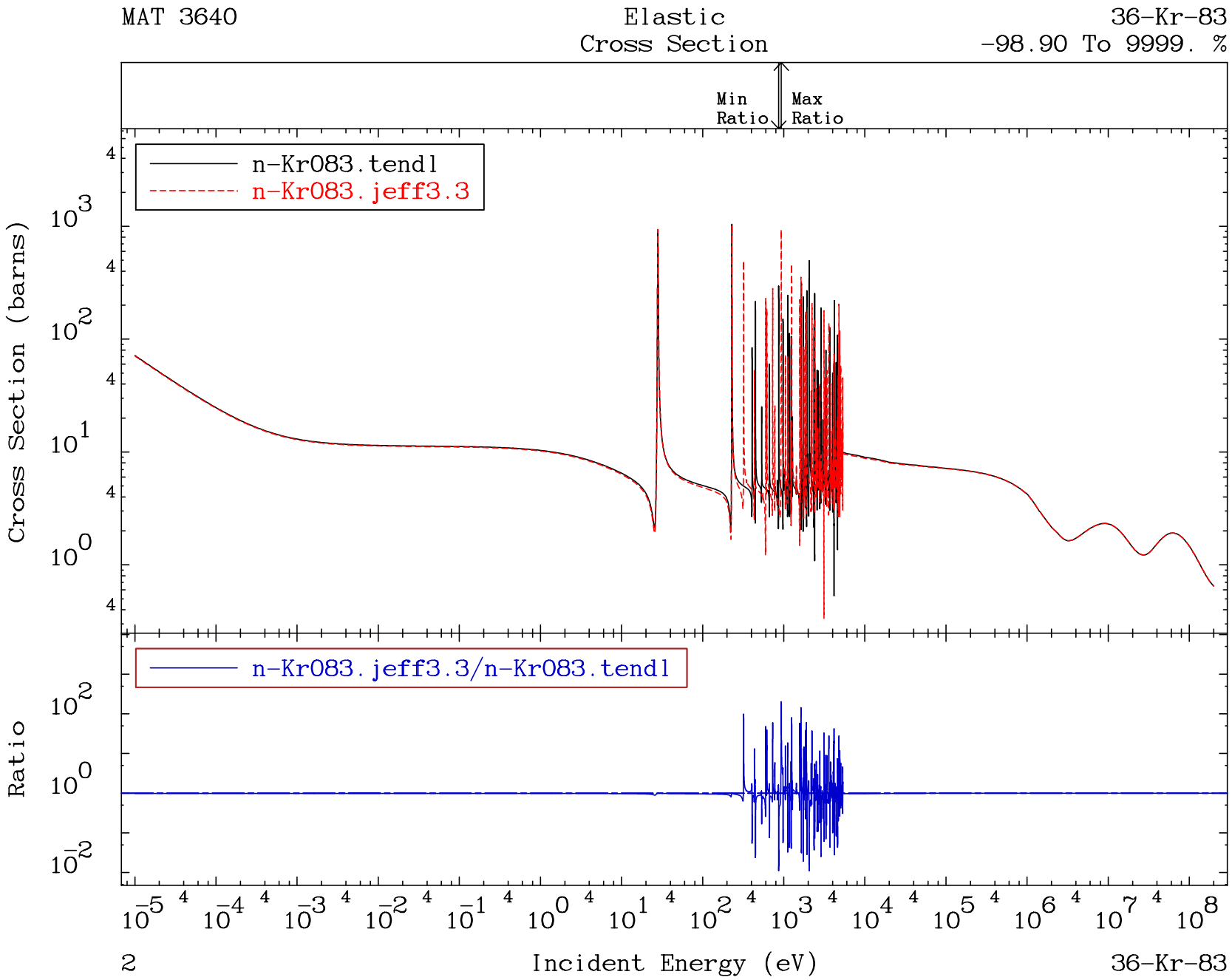
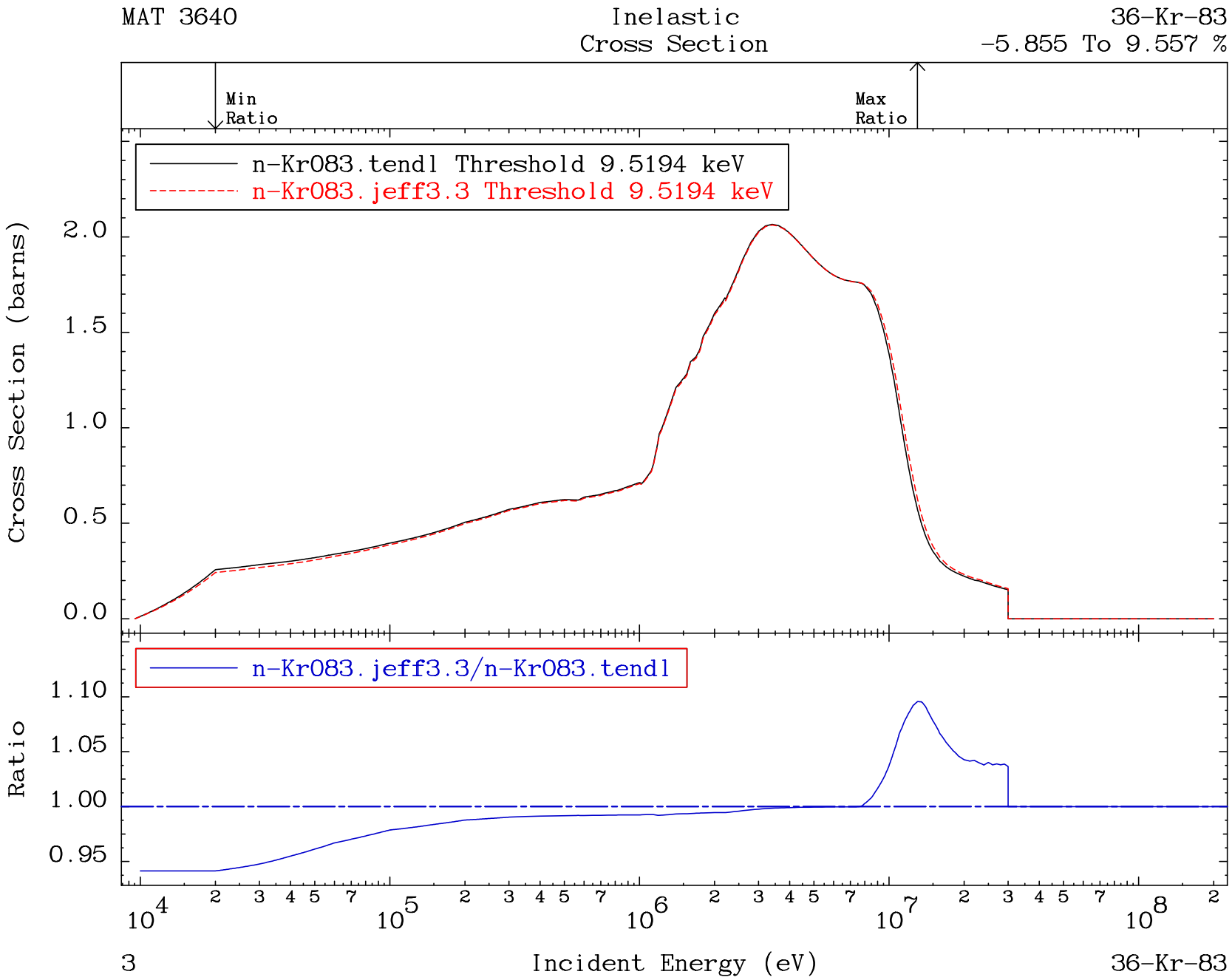
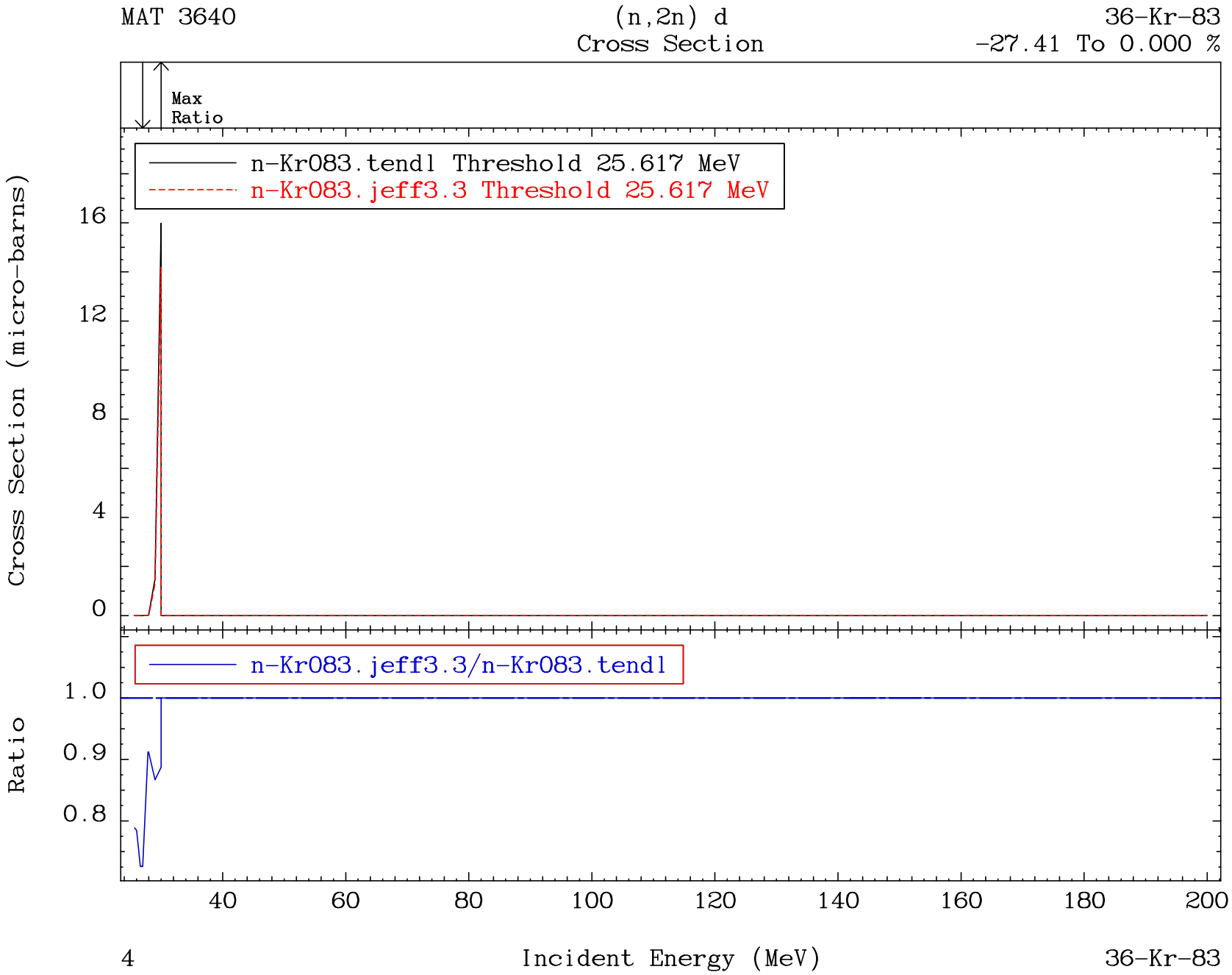
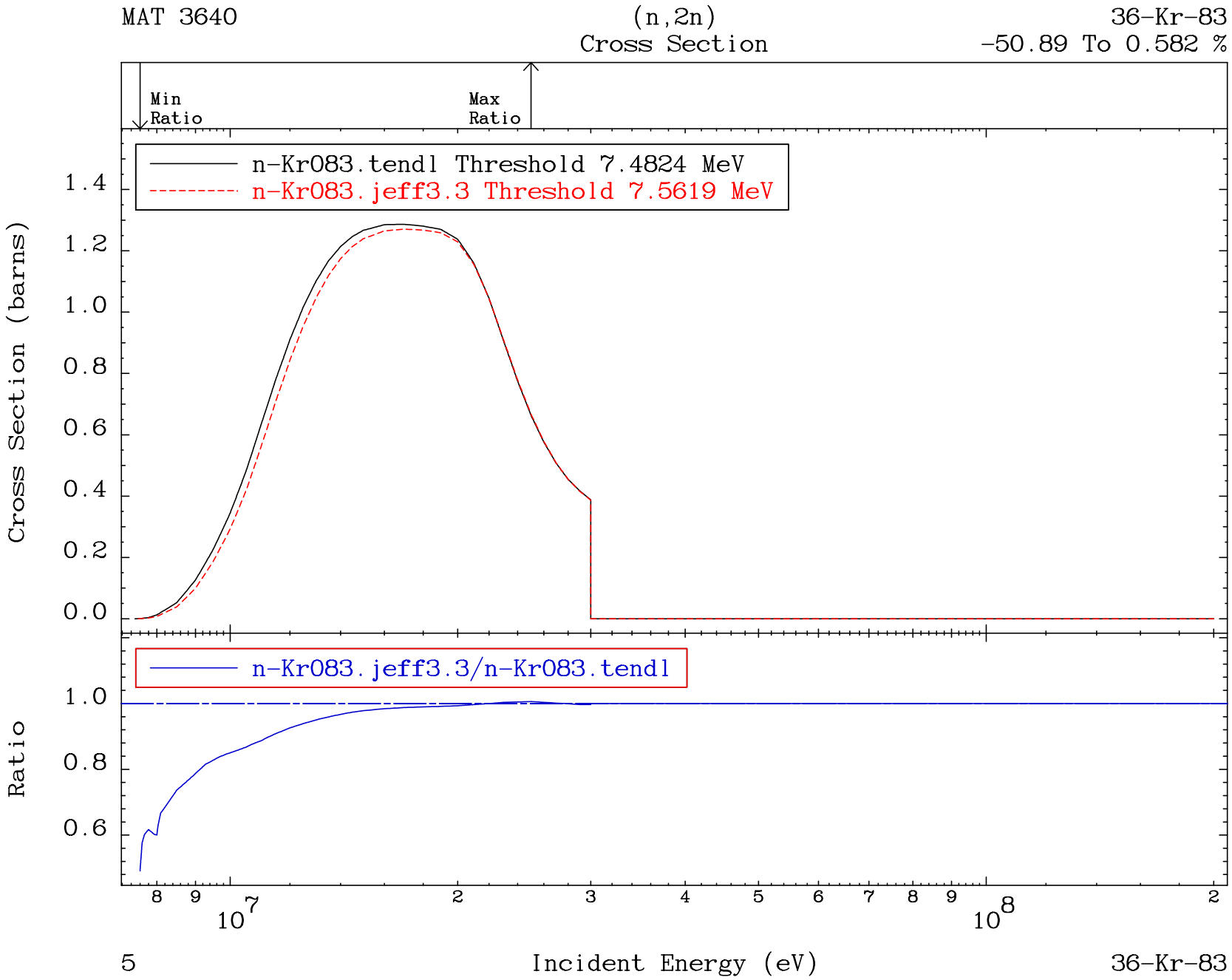
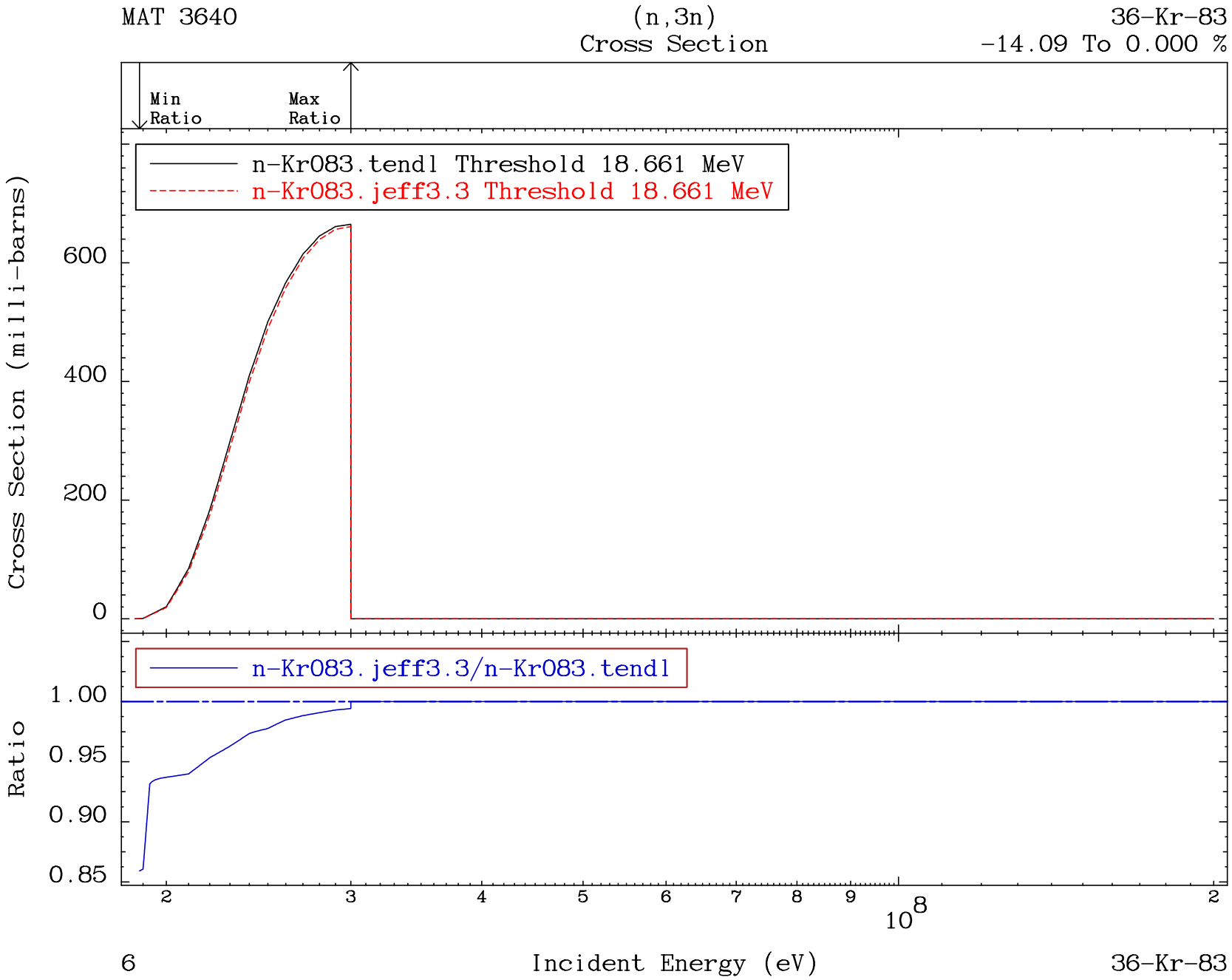

MAT 3640
Total
Cross Section
36-Kr-83
-99.25 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
1
36-Kr-83

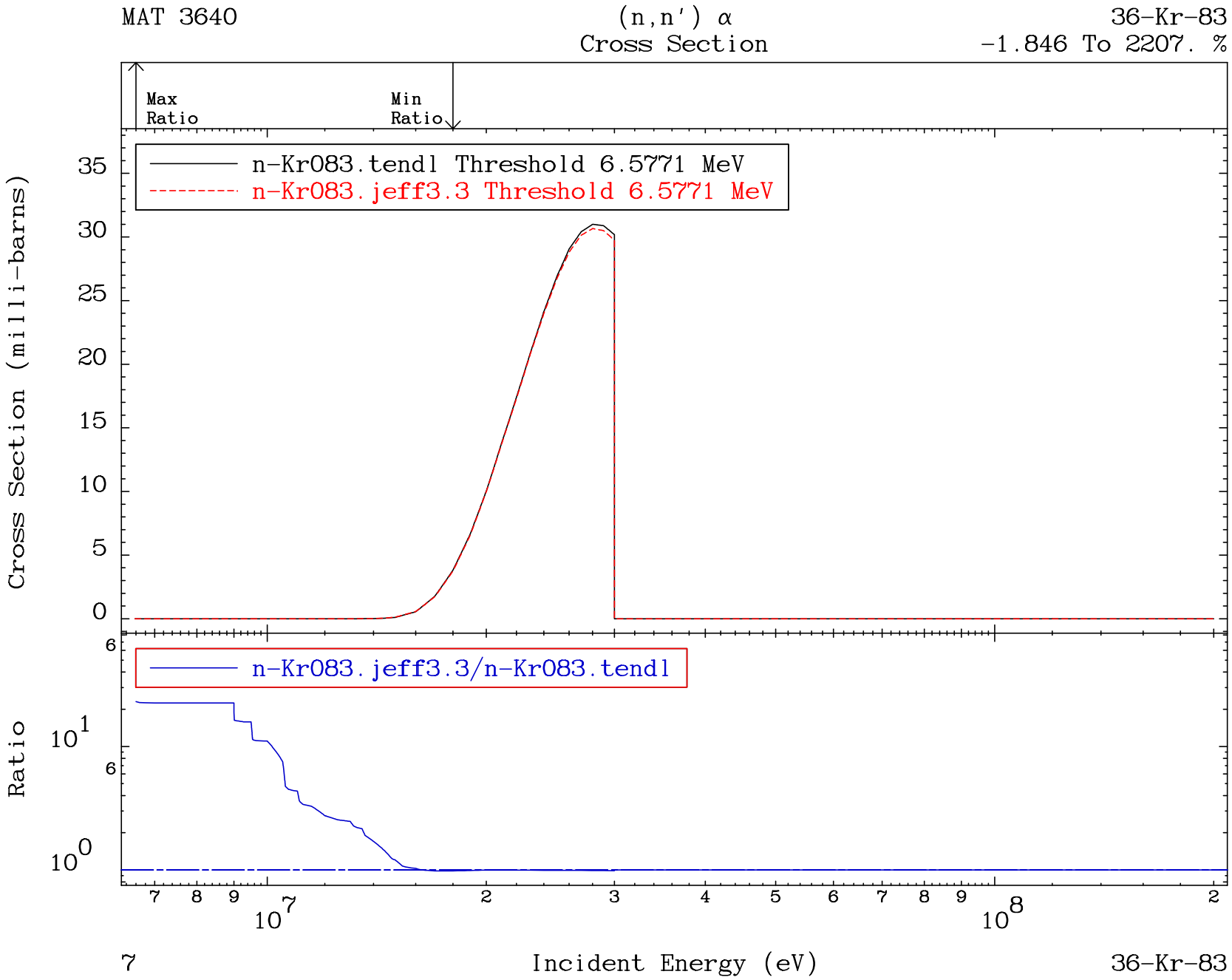

MAT 3640
Elastic
Cross Section
36-Kr-83
-98.90 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
2
36-Kr-83

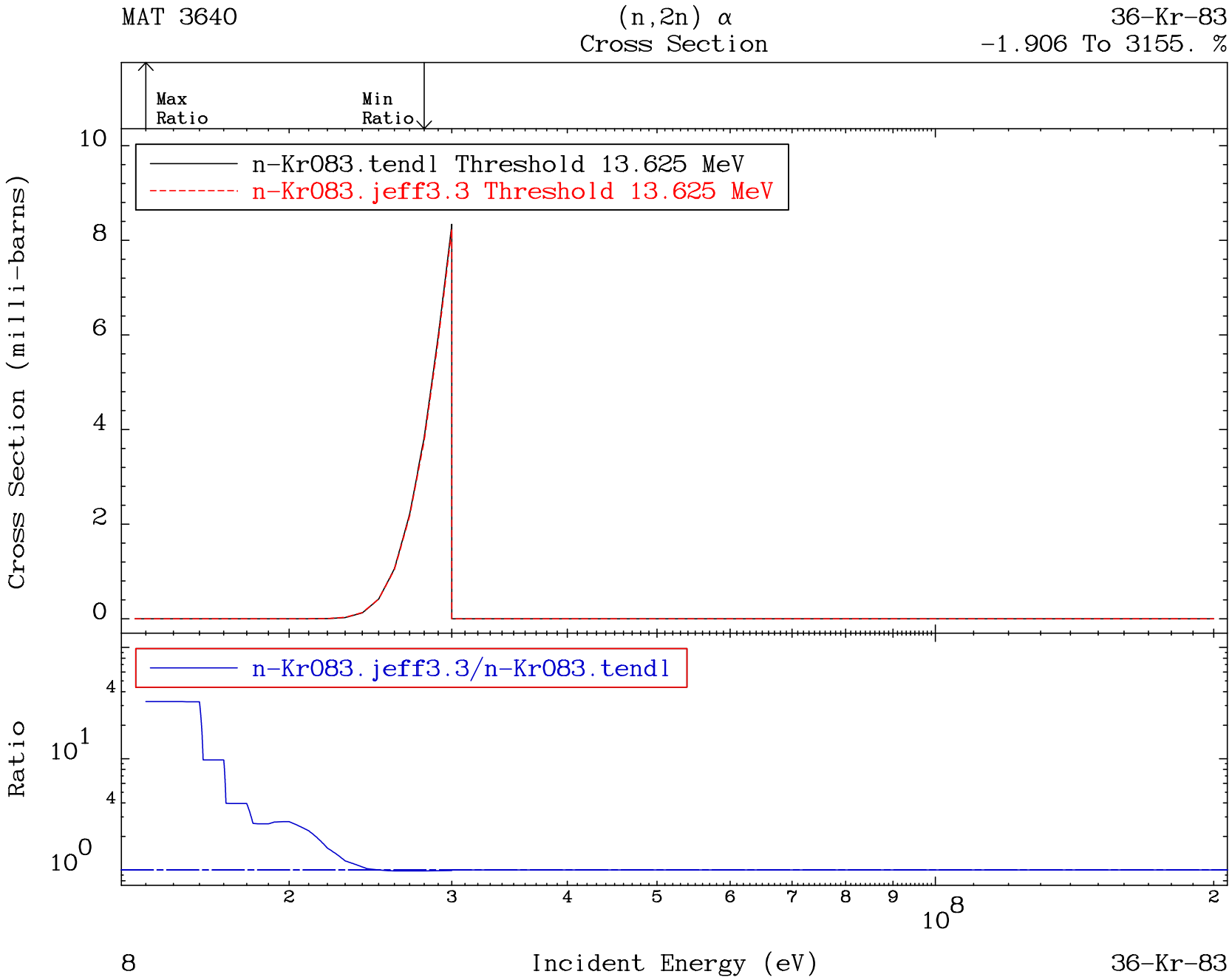

MAT 3640
Inelastic
Cross Section
36-Kr-83
-5.855 To 9.557 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 9.5194 keV
n-Kr083.jeff3.3 Threshold 9.5194 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.10
1.05
1.00
0.95
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
36-Kr-83

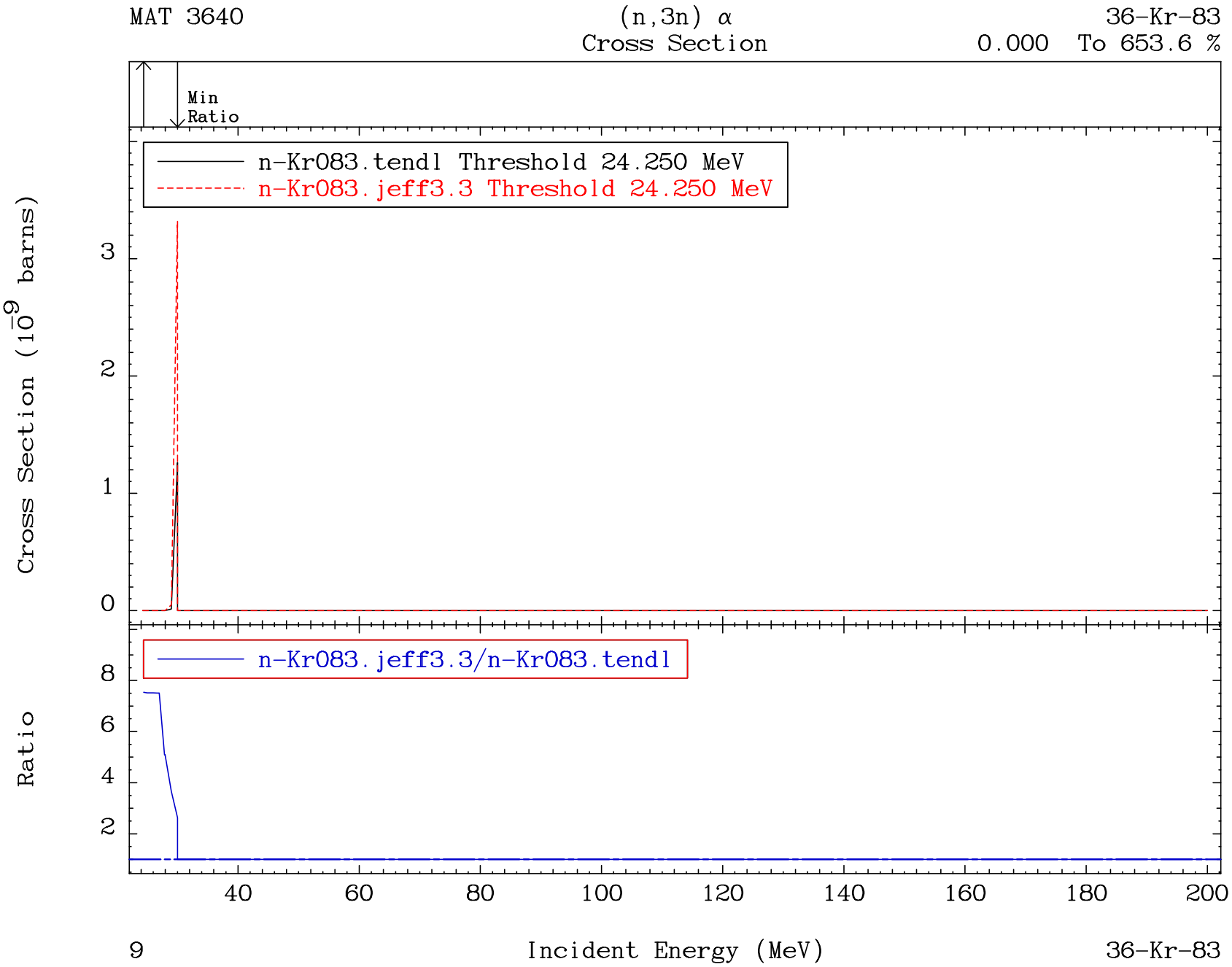

MAT 3640
(n,2n) d
Cross Section
36-Kr-83
-27.41 To 0.000 %
Max
Ratio
n-Kr083.tendl Threshold 25.617 MeV
n-Kr083.jeff3.3 Threshold 25.617 MeV
Cross Section (micro-barns)
16
12
8
4
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
36-Kr-83

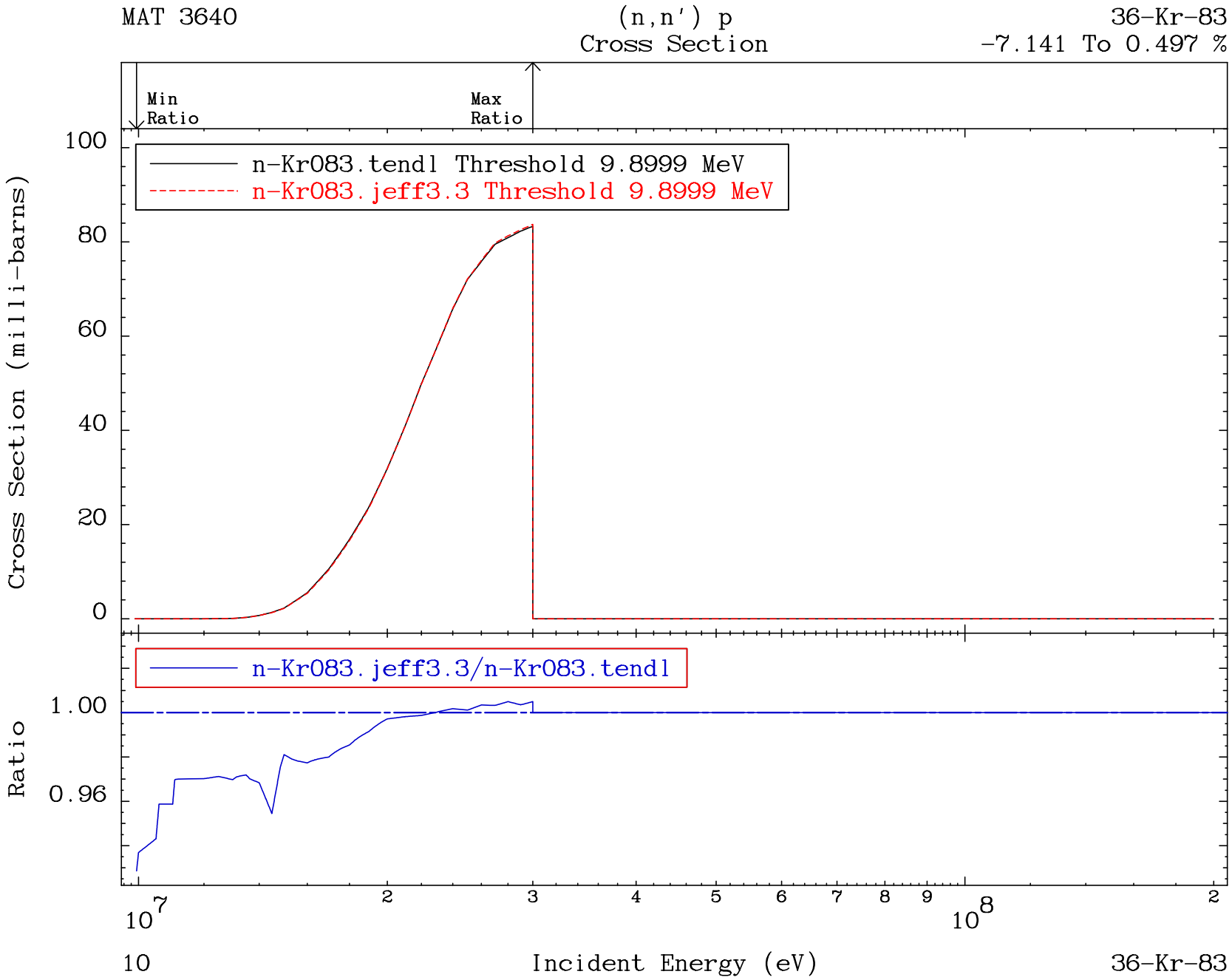

MAT 3640
(n,2n)
Cross Section
36-Kr-83
-50.89 To 0.582 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 7.4824 MeV
n-Kr083.jeff3.3 Threshold 7.5619 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.8
0.6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
36-Kr-83

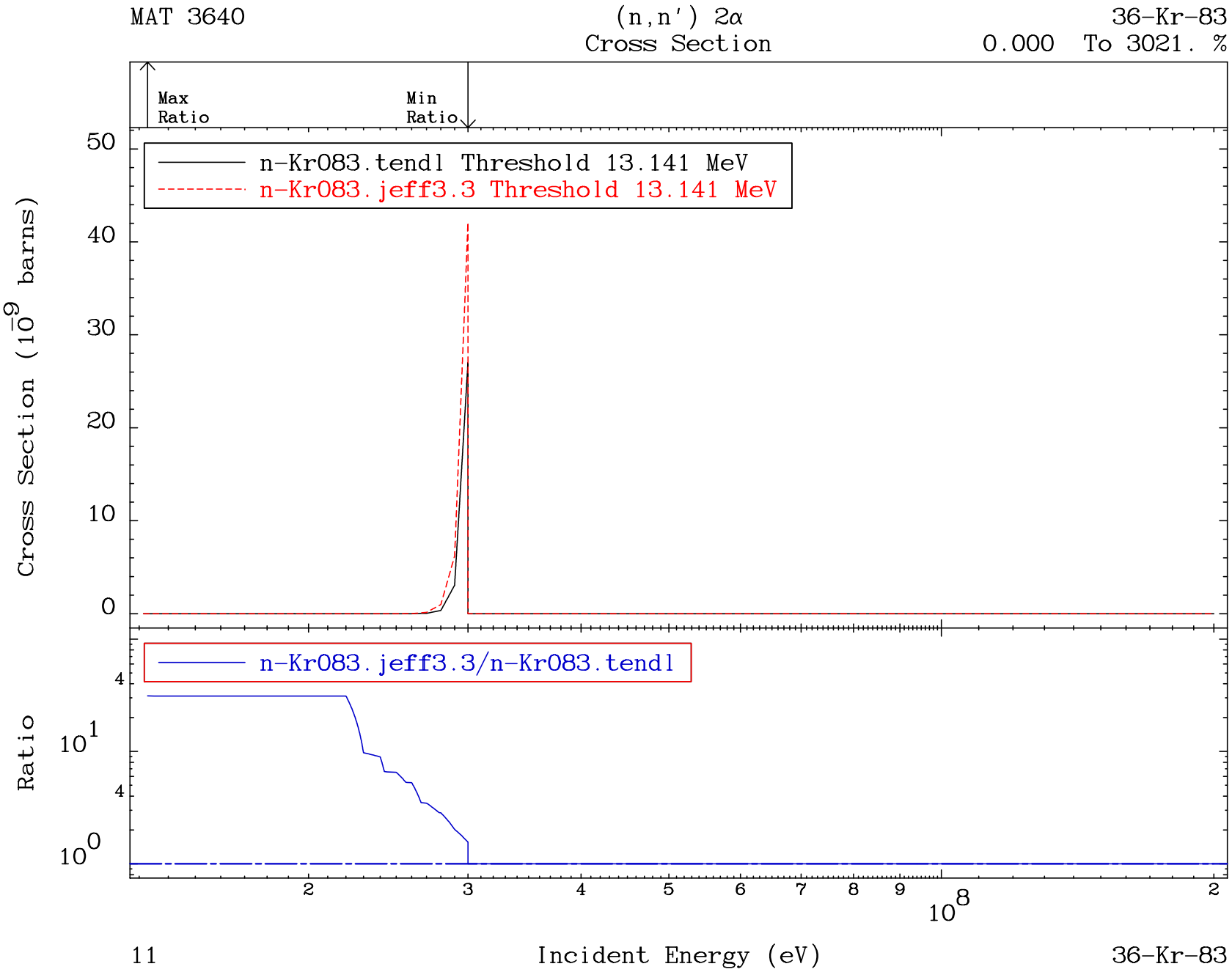

MAT 3640
(n,3n)
Cross Section
36-Kr-83
-14.09 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 18.661 MeV
n-Kr083.jeff3.3 Threshold 18.661 MeV
Cross Section (milli-barns)
600
400
200
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
36-Kr-83

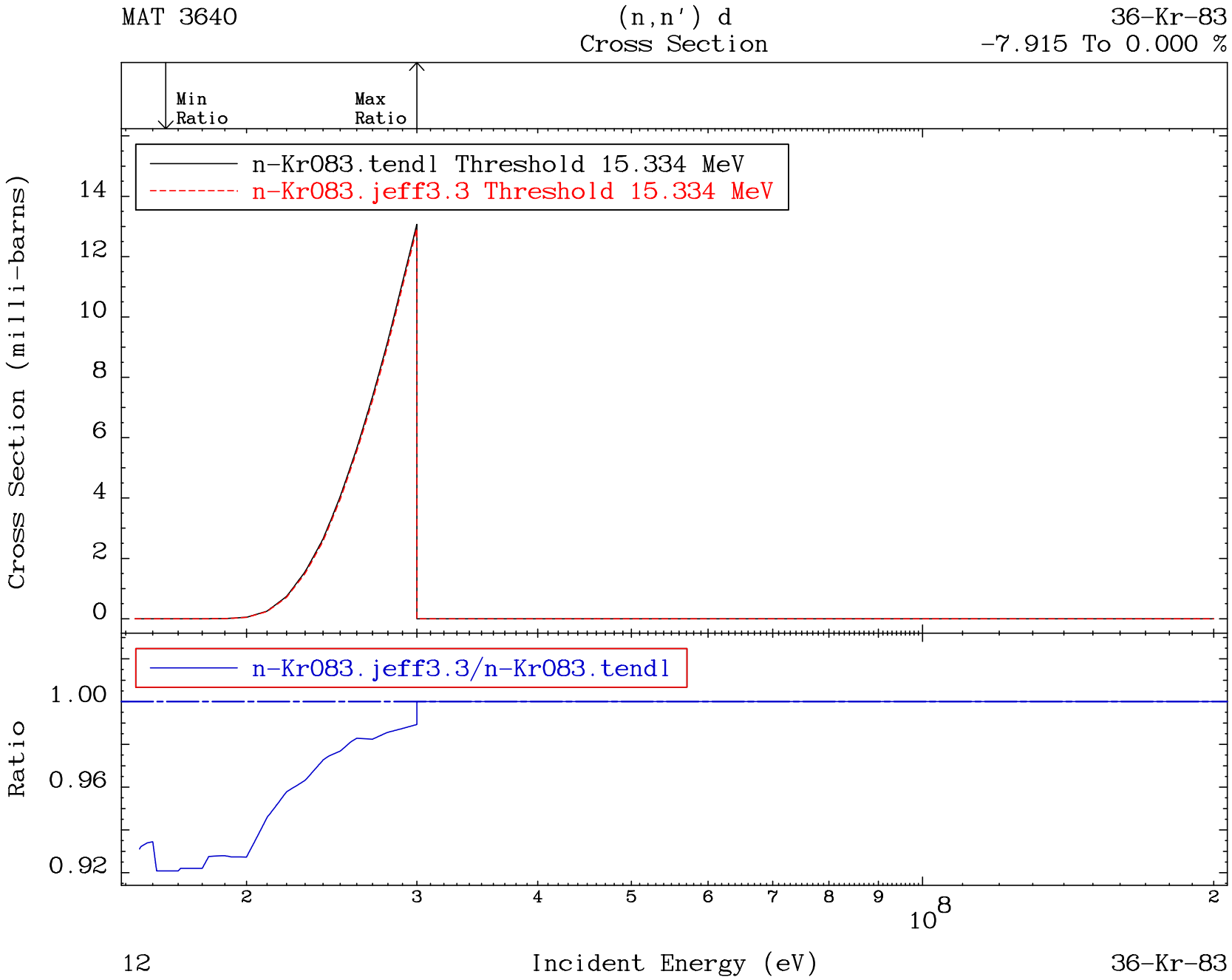

MAT 3640
(n,n') α
Cross Section
36-Kr-83
-1.846 To 2207. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 6.5771 MeV
n-Kr083.jeff3.3 Threshold 6.5771 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
6
10^1
6
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
36-Kr-83

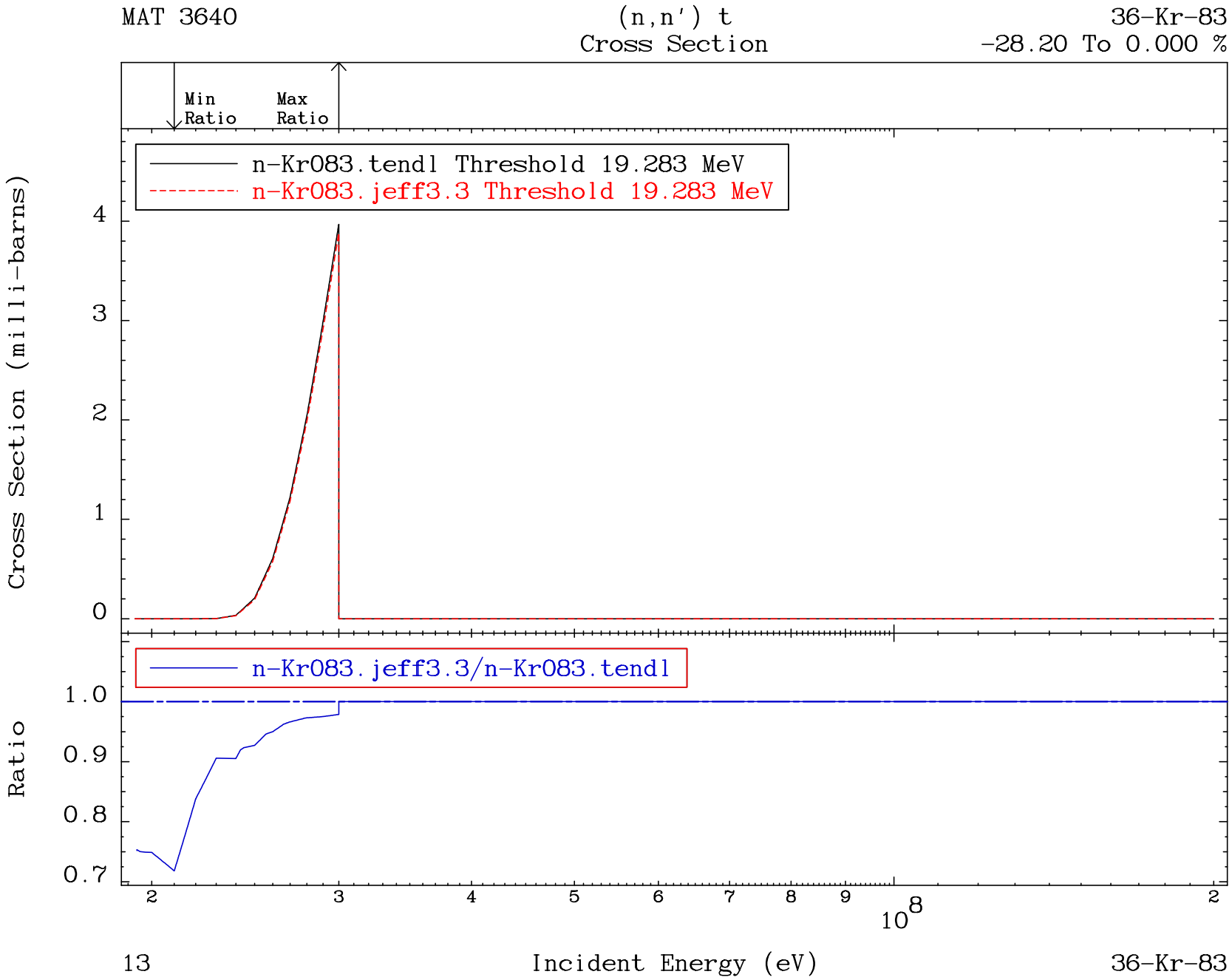

MAT 3640
(n,2n) α
Cross Section
36-Kr-83
-1.906 To 3155. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 13.625 MeV
n-Kr083.jeff3.3 Threshold 13.625 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
36-Kr-83

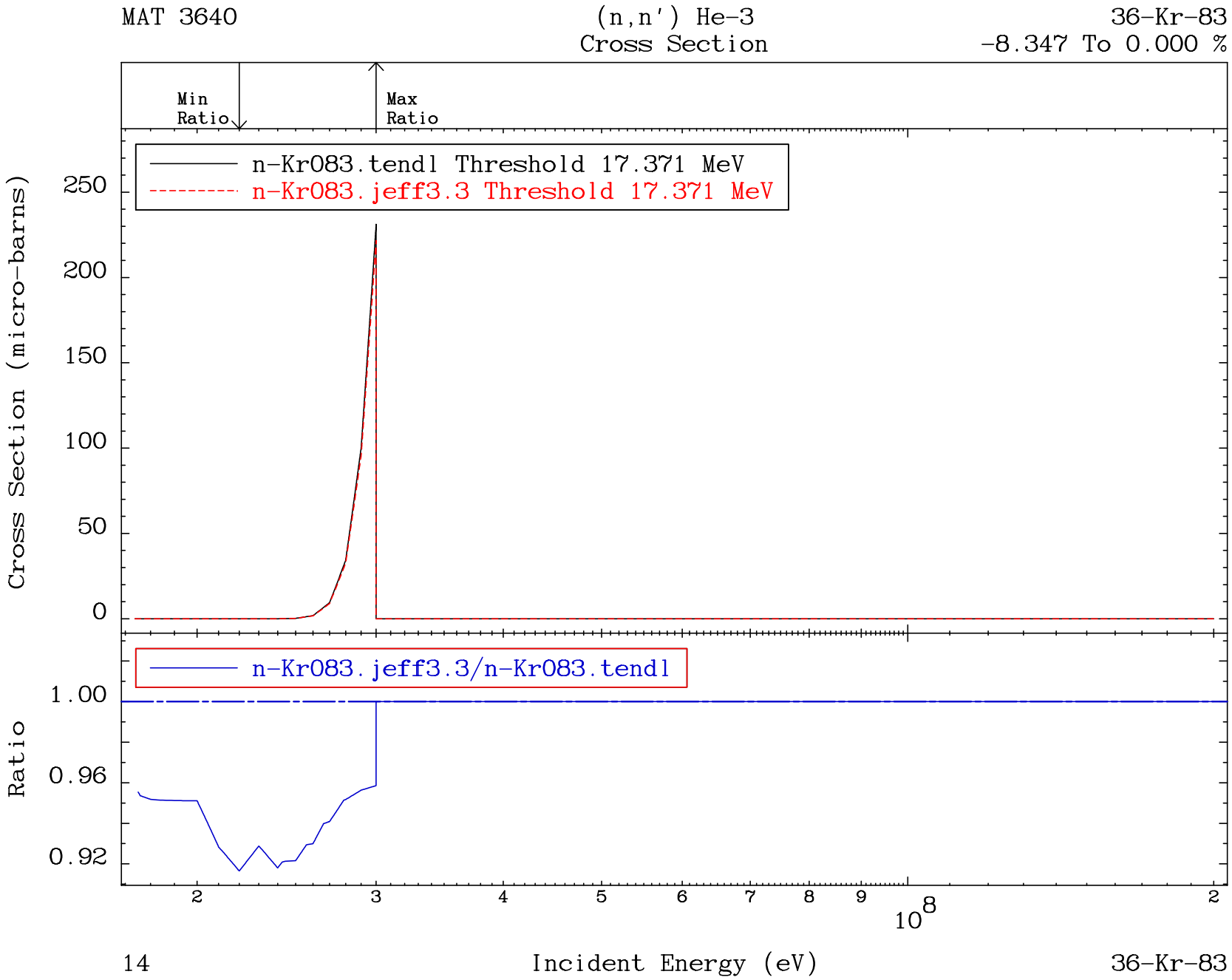

MAT 3640
(n,3n) α
Cross Section
36-Kr-83
0.000 To 653.6 %
Min
Ratio
n-Kr083.tendl Threshold 24.250 MeV
n-Kr083.jeff3.3 Threshold 24.250 MeV
Cross Section (10^-9 barns)
3
2
1
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
8
6
4
2
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
36-Kr-83

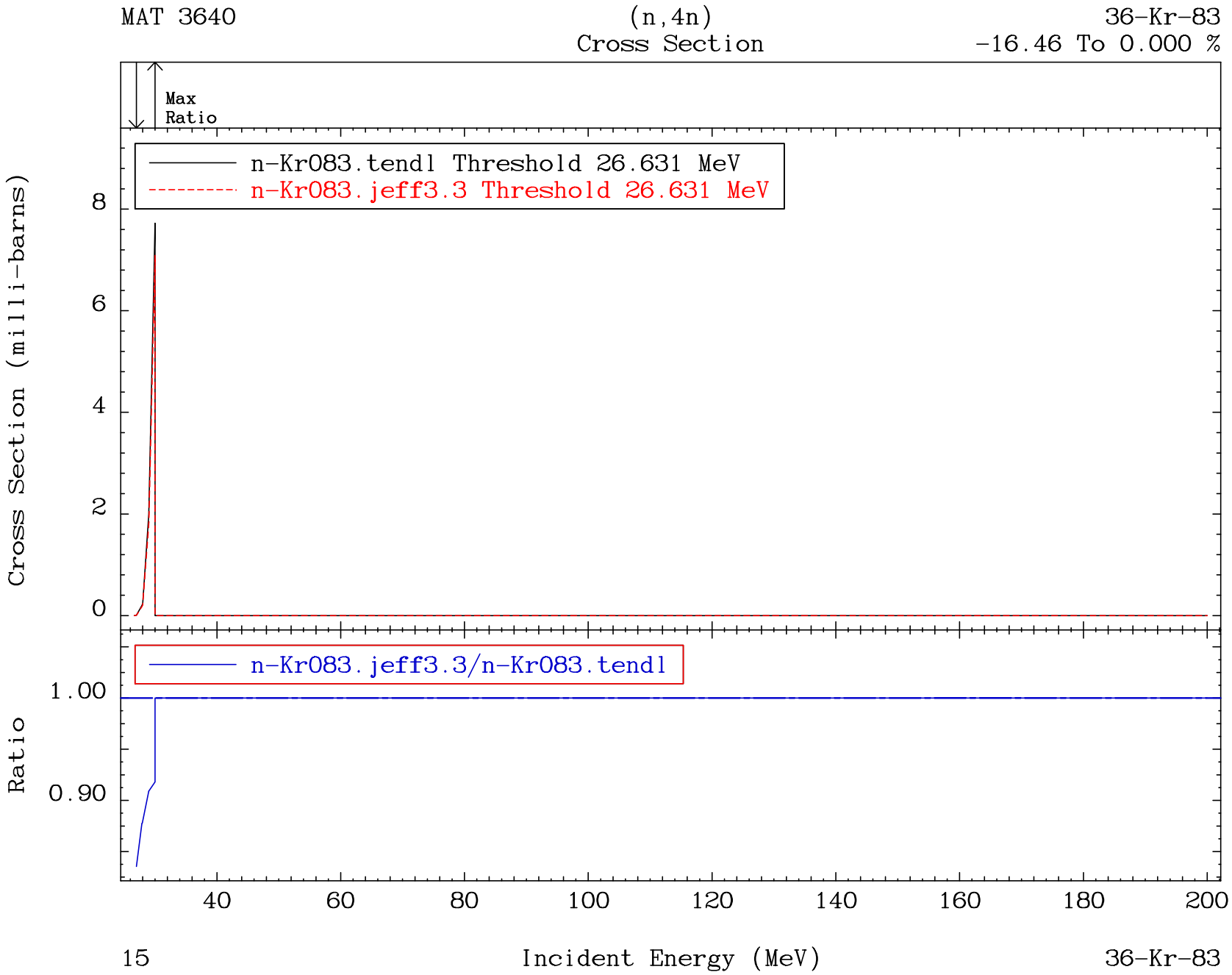

MAT 3640
(n,n') p
Cross Section
36-Kr-83
-7.141 To 0.497 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.8999 MeV
n-Kr083.jeff3.3 Threshold 9.8999 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
36-Kr-83

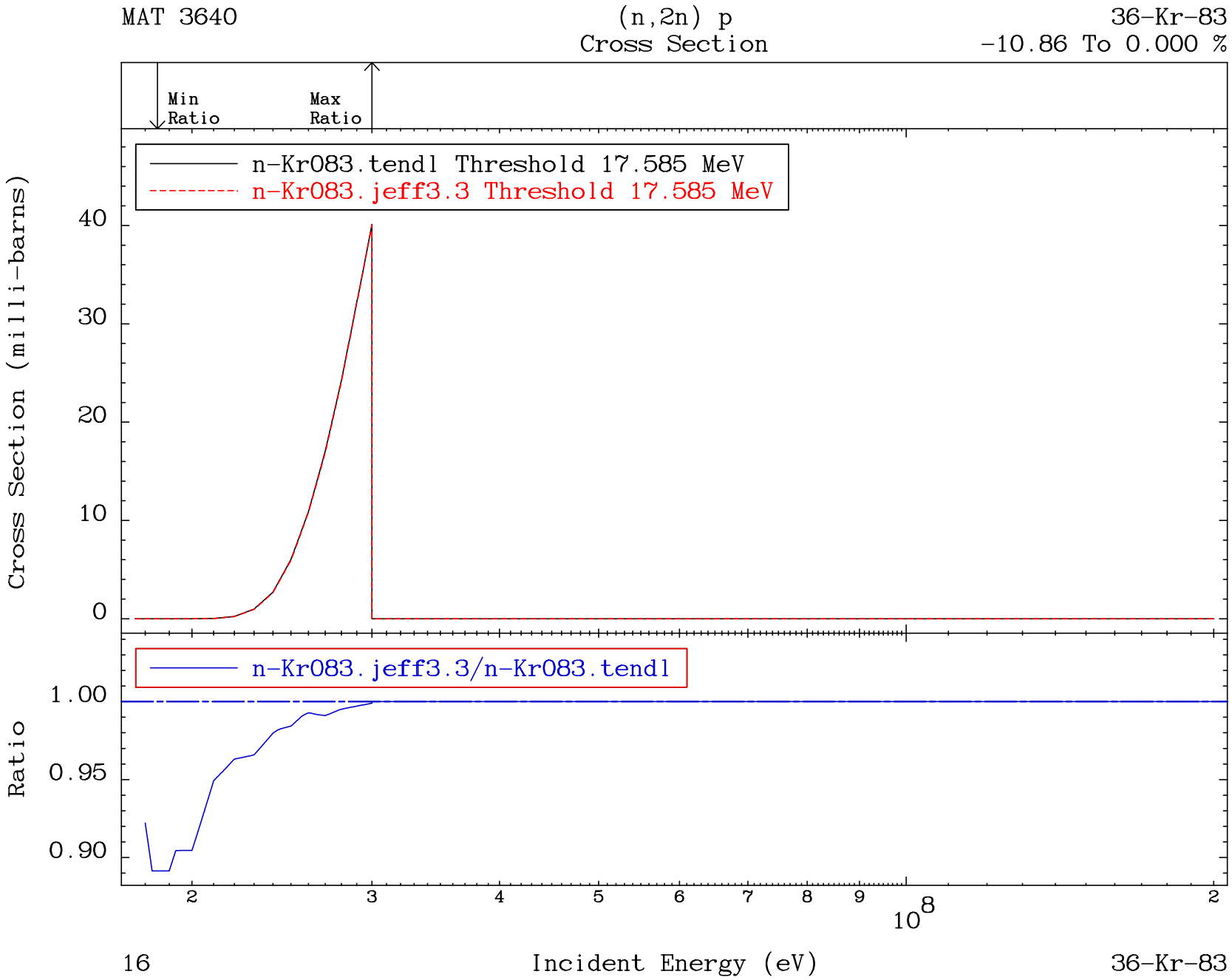

MAT 3640
(n,n') 2α
Cross Section
36-Kr-83
0.000 To 3021. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 13.141 MeV
n-Kr083.jeff3.3 Threshold 13.141 MeV
Cross Section (10^-9 barns)
50
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
10^1
4
10^0
4
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
36-Kr-83

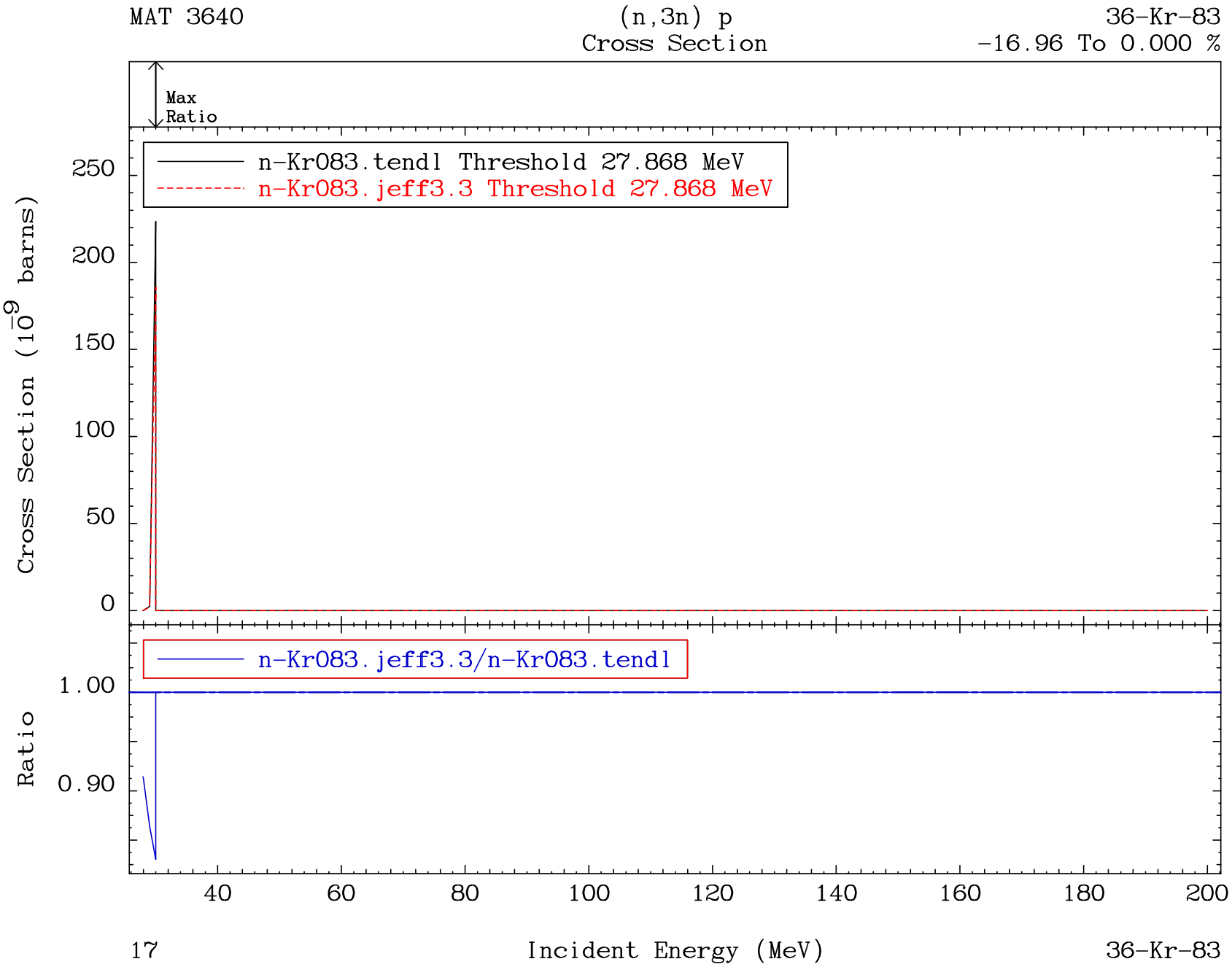

MAT 3640
(n,n') d
Cross Section
36-Kr-83
-7.915 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 15.334 MeV
n-Kr083.jeff3.3 Threshold 15.334 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
0.92
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
36-Kr-83

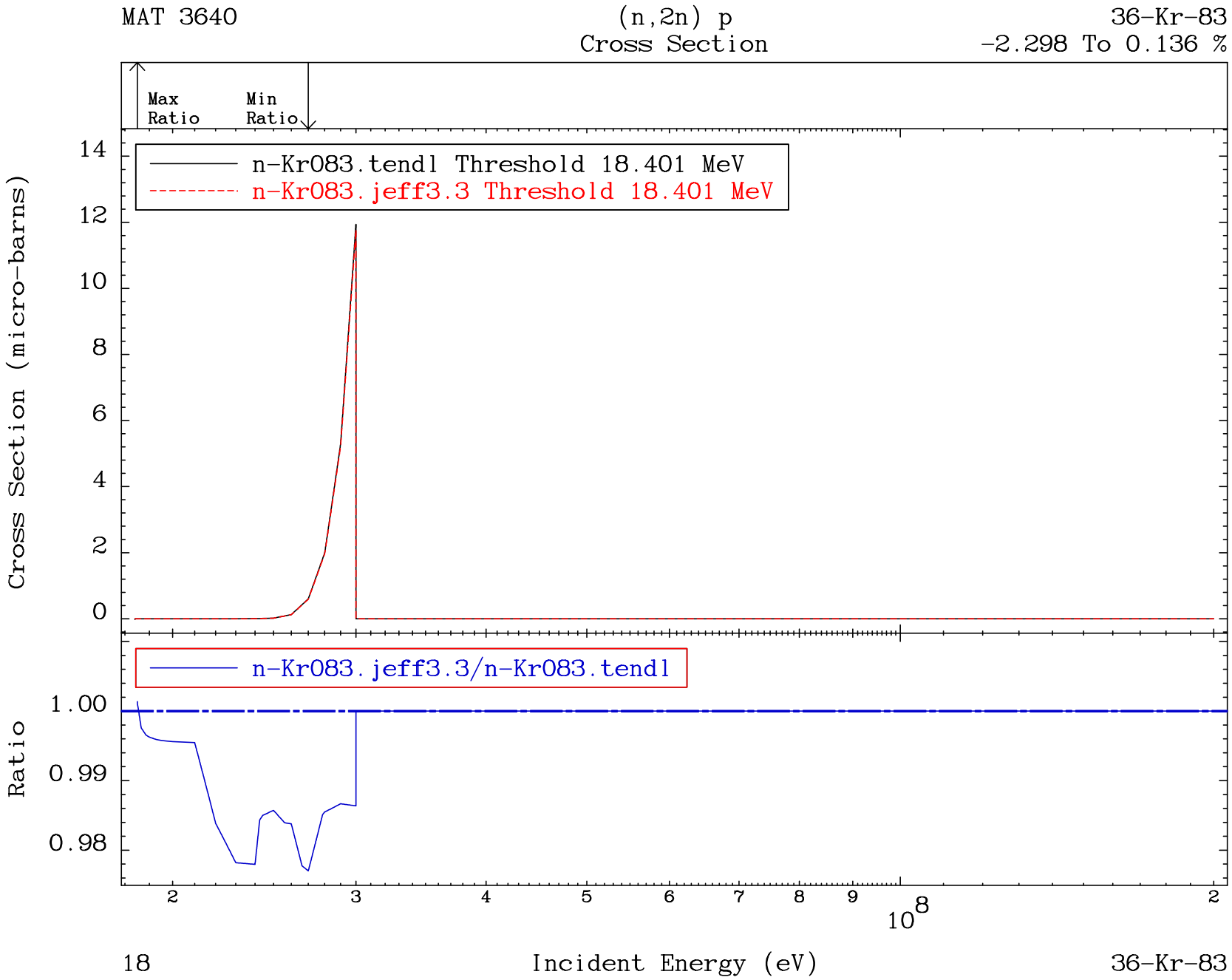

MAT 3640
(n,n') t
Cross Section
36-Kr-83
-28.20 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 19.283 MeV
n-Kr083.jeff3.3 Threshold 19.283 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
0.7
0.8
0.9
1.0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
36-Kr-83

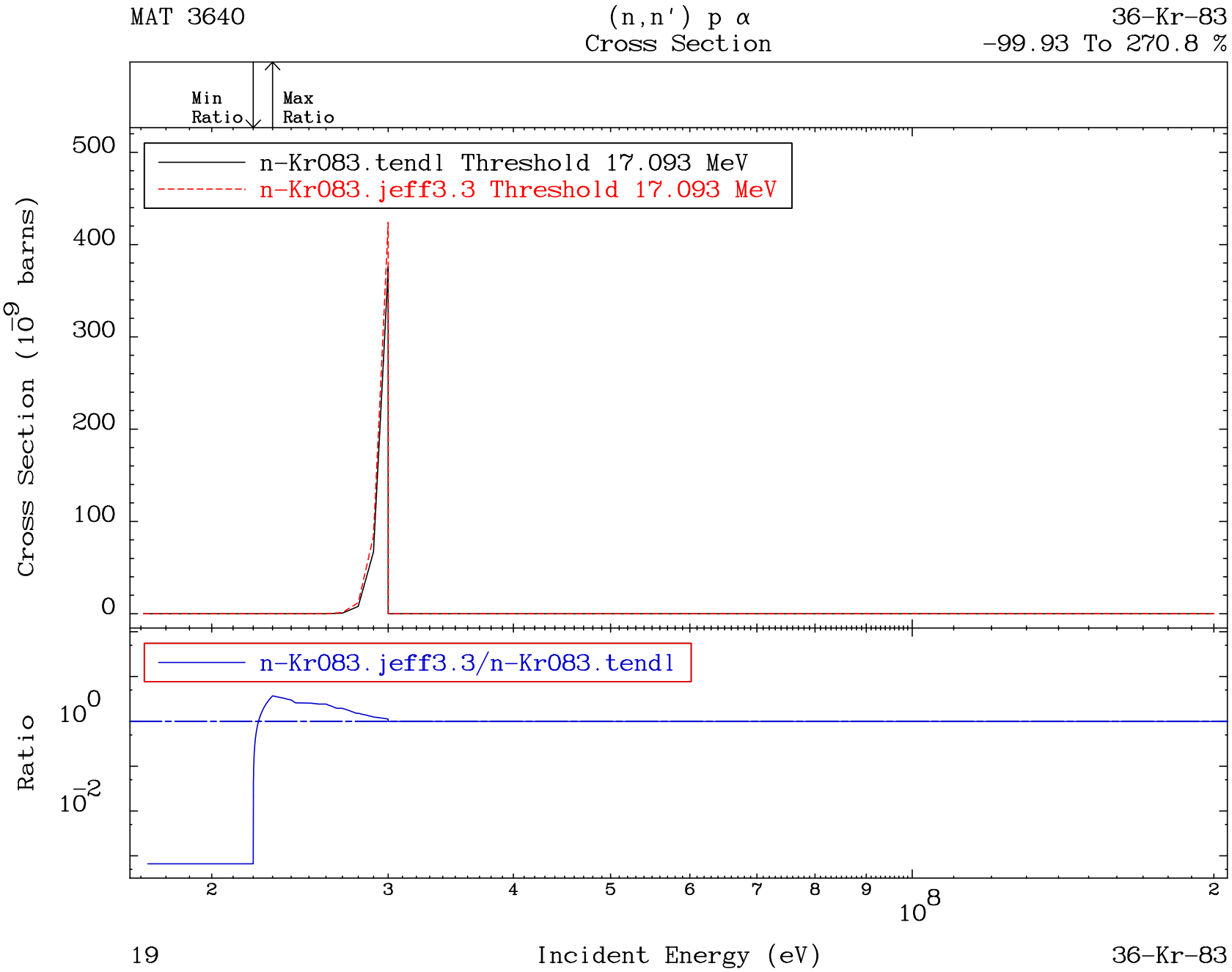

MAT 3640
(n,n') He-3
Cross Section
36-Kr-83
-8.347 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 17.371 MeV
n-Kr083.jeff3.3 Threshold 17.371 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
0.92
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
36-Kr-83

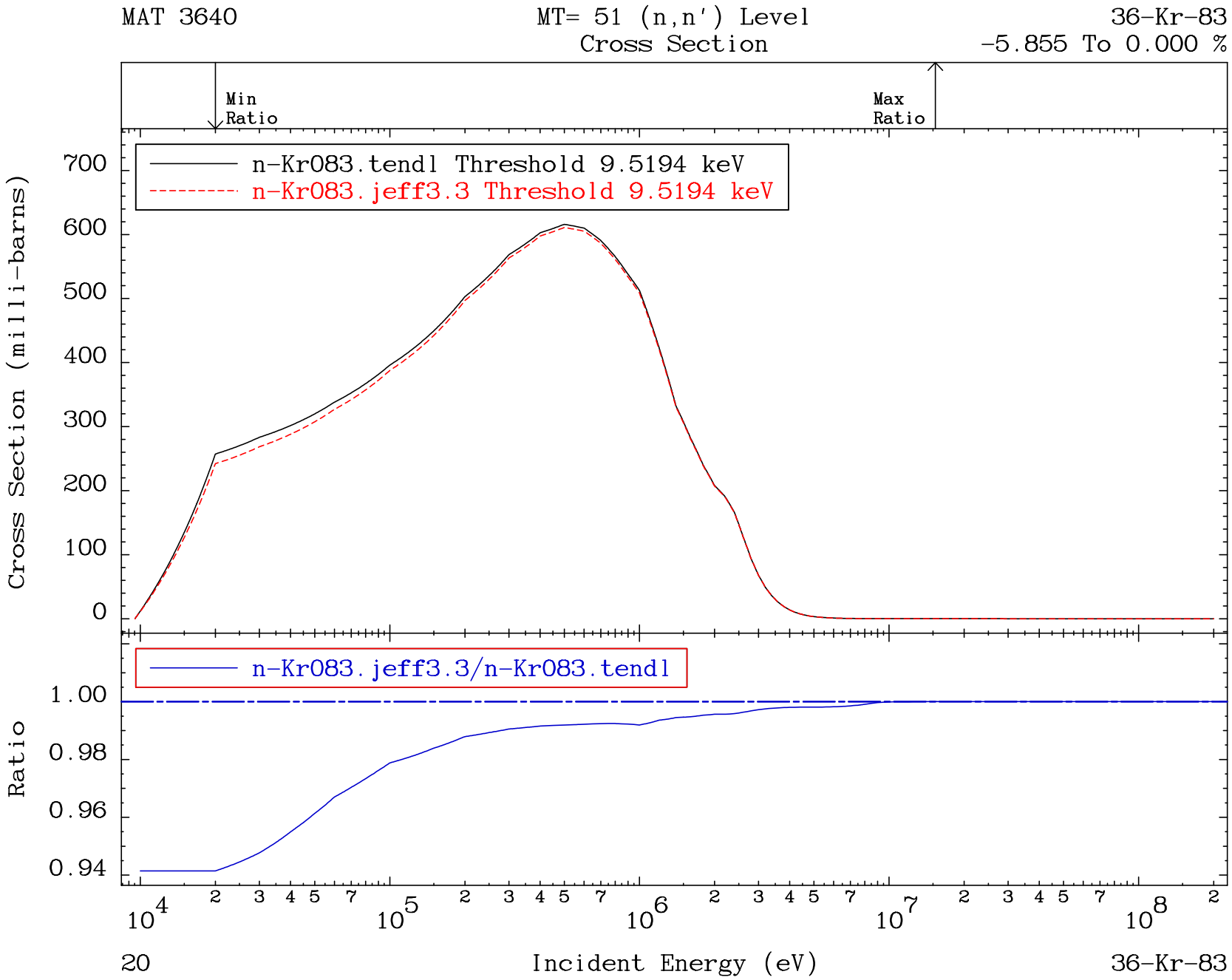

MAT 3640
(n,4n)
Cross Section
36-Kr-83
-16.46 To 0.000 %
Max
Ratio
n-Kr083.tendl Threshold 26.631 MeV
n-Kr083.jeff3.3 Threshold 26.631 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.90
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
36-Kr-83

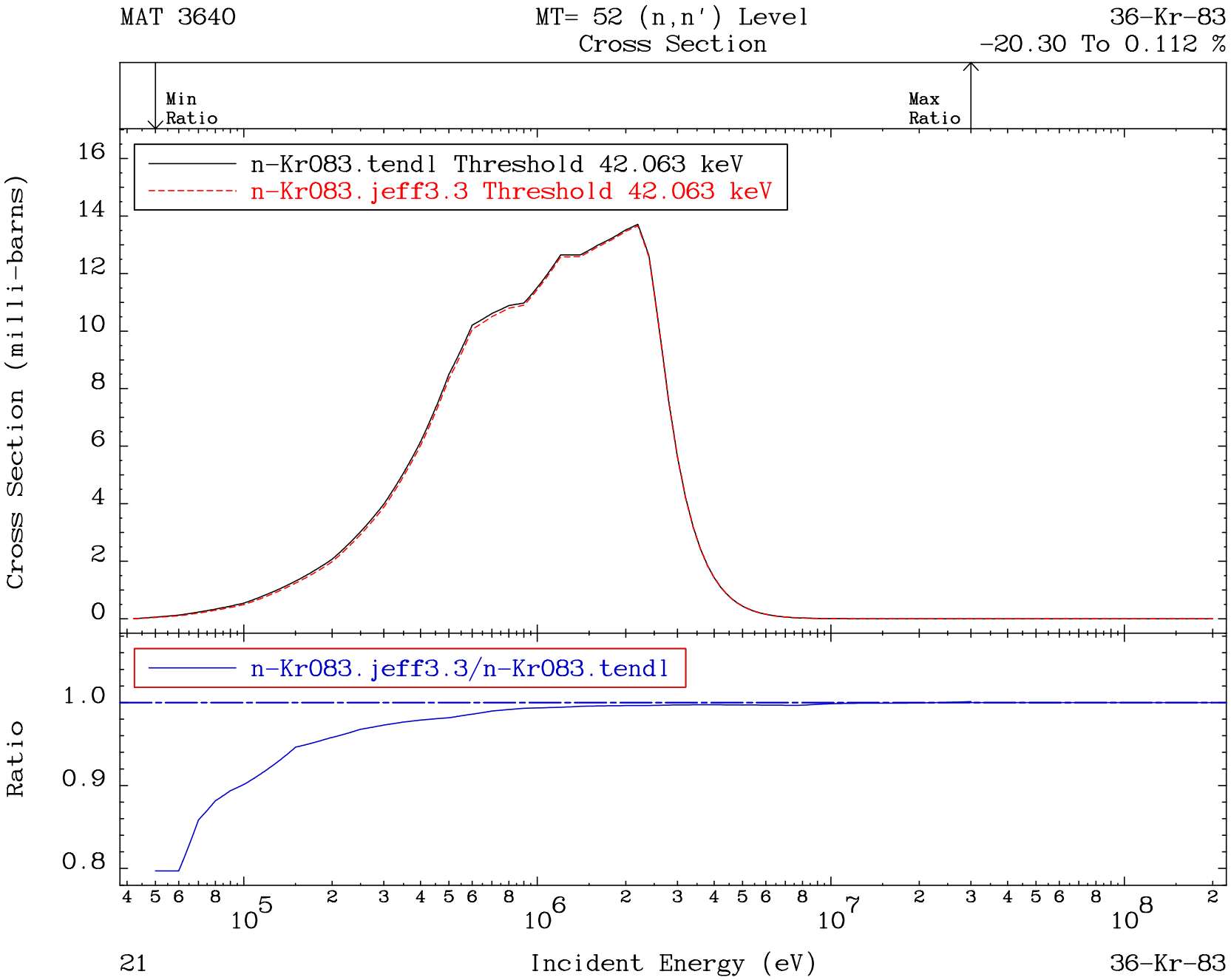

MAT 3640
(n,2n) p
Cross Section
36-Kr-83
-10.86 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 17.585 MeV
n-Kr083.jeff3.3 Threshold 17.585 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
36-Kr-83

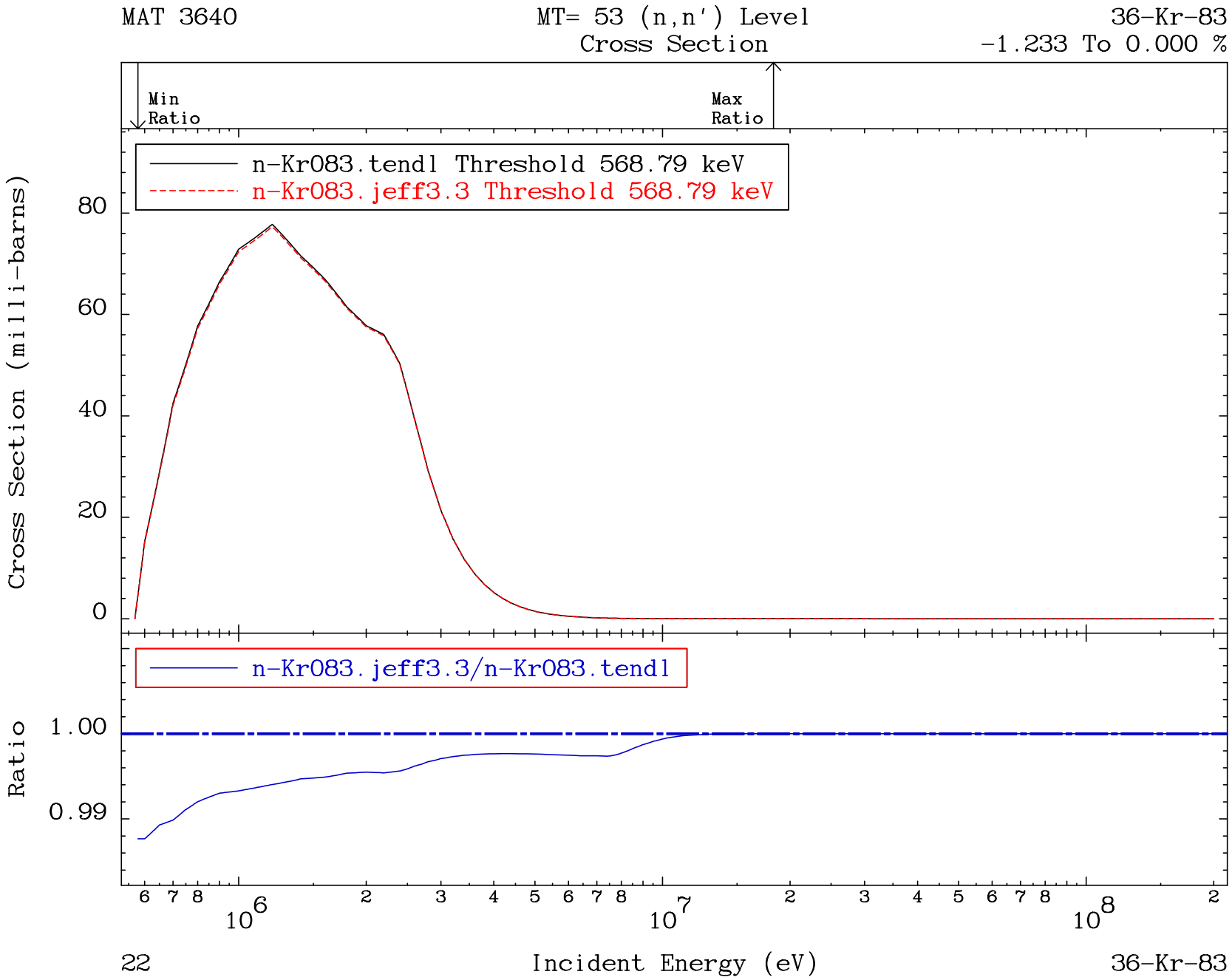

MAT 3640
(n,3n) p
Cross Section
36-Kr-83
-16.96 To 0.000 %
Max
Ratio
n-Kr083.tendl Threshold 27.868 MeV
n-Kr083.jeff3.3 Threshold 27.868 MeV
Cross Section (10^{-9} barns)
250
200
150
100
50
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.90
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
36-Kr-83

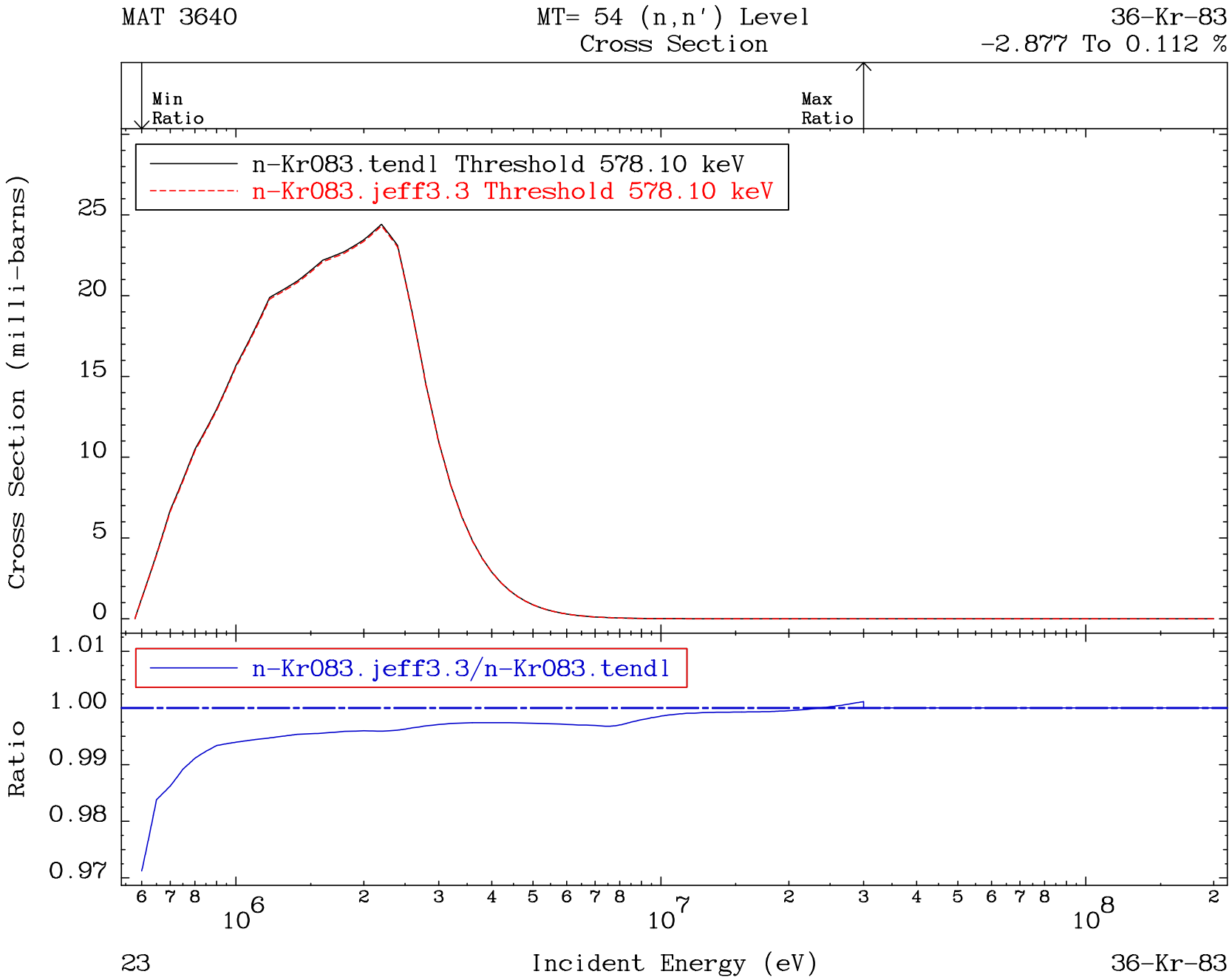

MAT 3640
(n,2n) p
Cross Section
36-Kr-83
-2.298 To 0.136 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 18.401 MeV
n-Kr083.jeff3.3 Threshold 18.401 MeV
Cross Section (micro-barns)
14
12
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
36-Kr-83

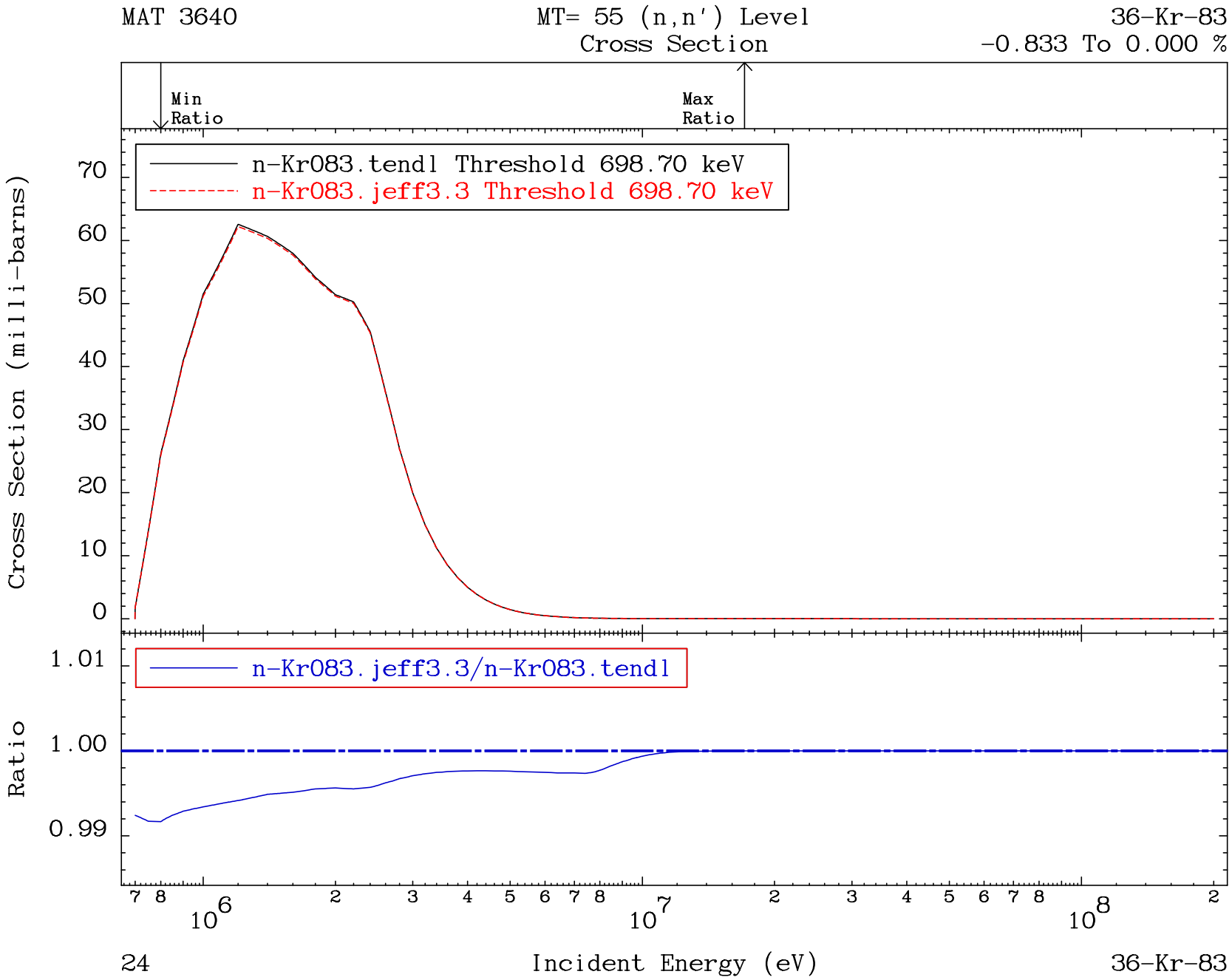

MAT 3640
(n,n') p α
Cross Section
36-Kr-83
-99.93 To 270.8 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 17.093 MeV
n-Kr083.jeff3.3 Threshold 17.093 MeV
Cross Section (10^-9 barns)
500
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
36-Kr-83

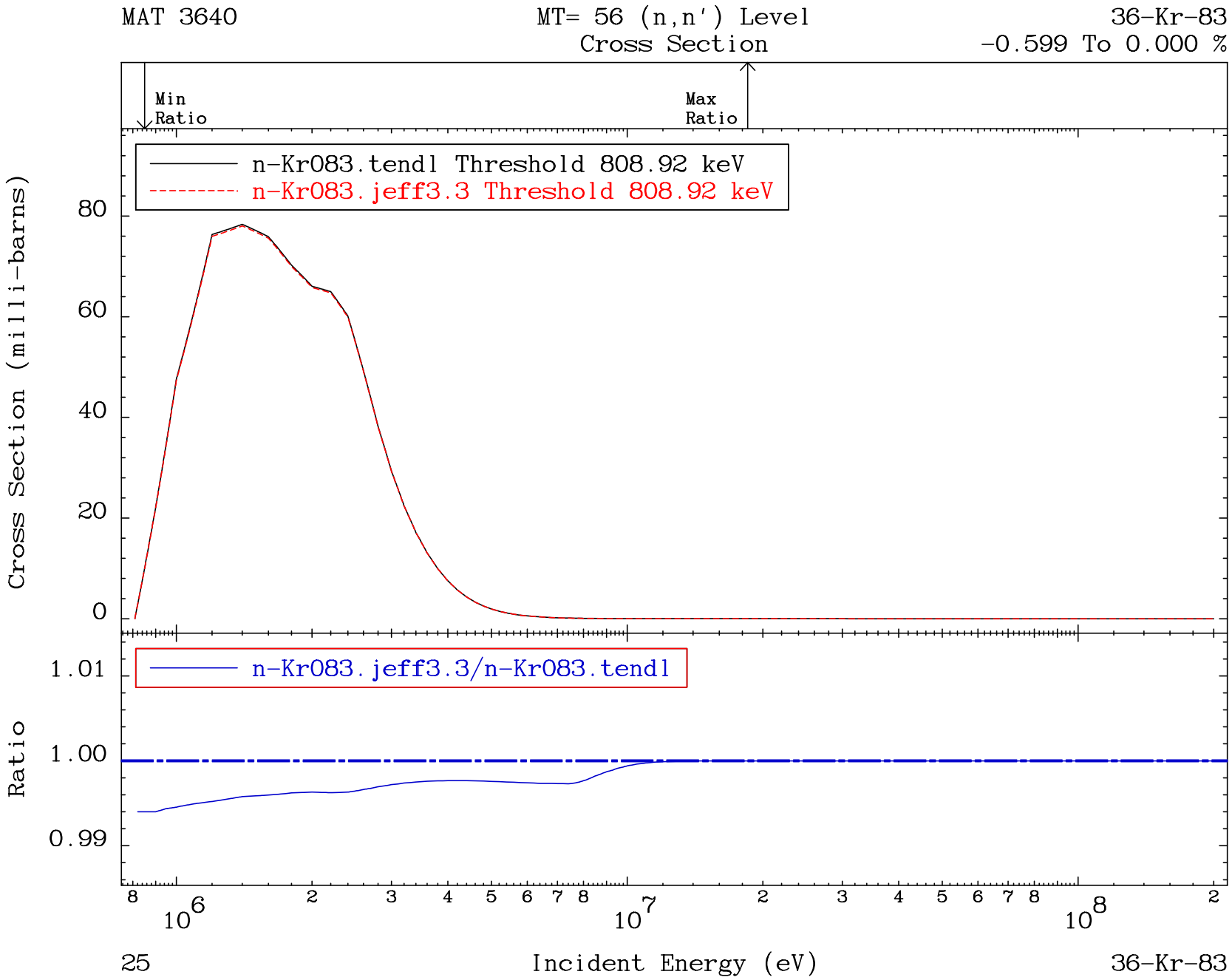

MAT 3640
MT= 51 (n,n') Level
Cross Section
36-Kr-83
-5.855 To 0.000 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 9.5194 keV
n-Kr083.jeff3.3 Threshold 9.5194 keV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.98
0.96
0.94
10^4
10^5
10^6
10^7
10^8
20
Incident Energy (eV)
36-Kr-83

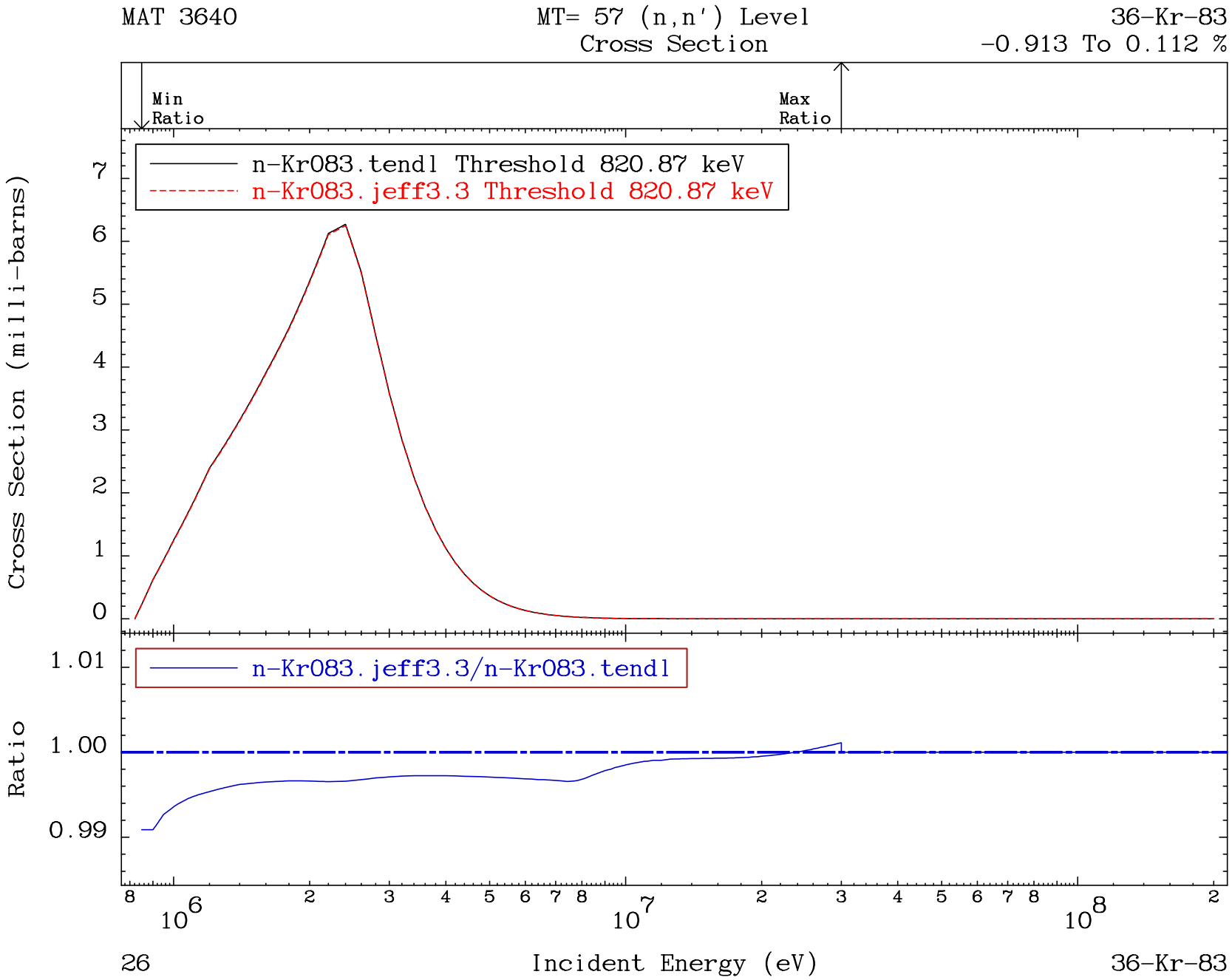

MAT 3640
MT= 52 (n,n') Level
Cross Section
36-Kr-83
-20.30 To 0.112 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 42.063 keV
n-Kr083.jeff3.3 Threshold 42.063 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
0.8
0.9
1.0
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
21
36-Kr-83

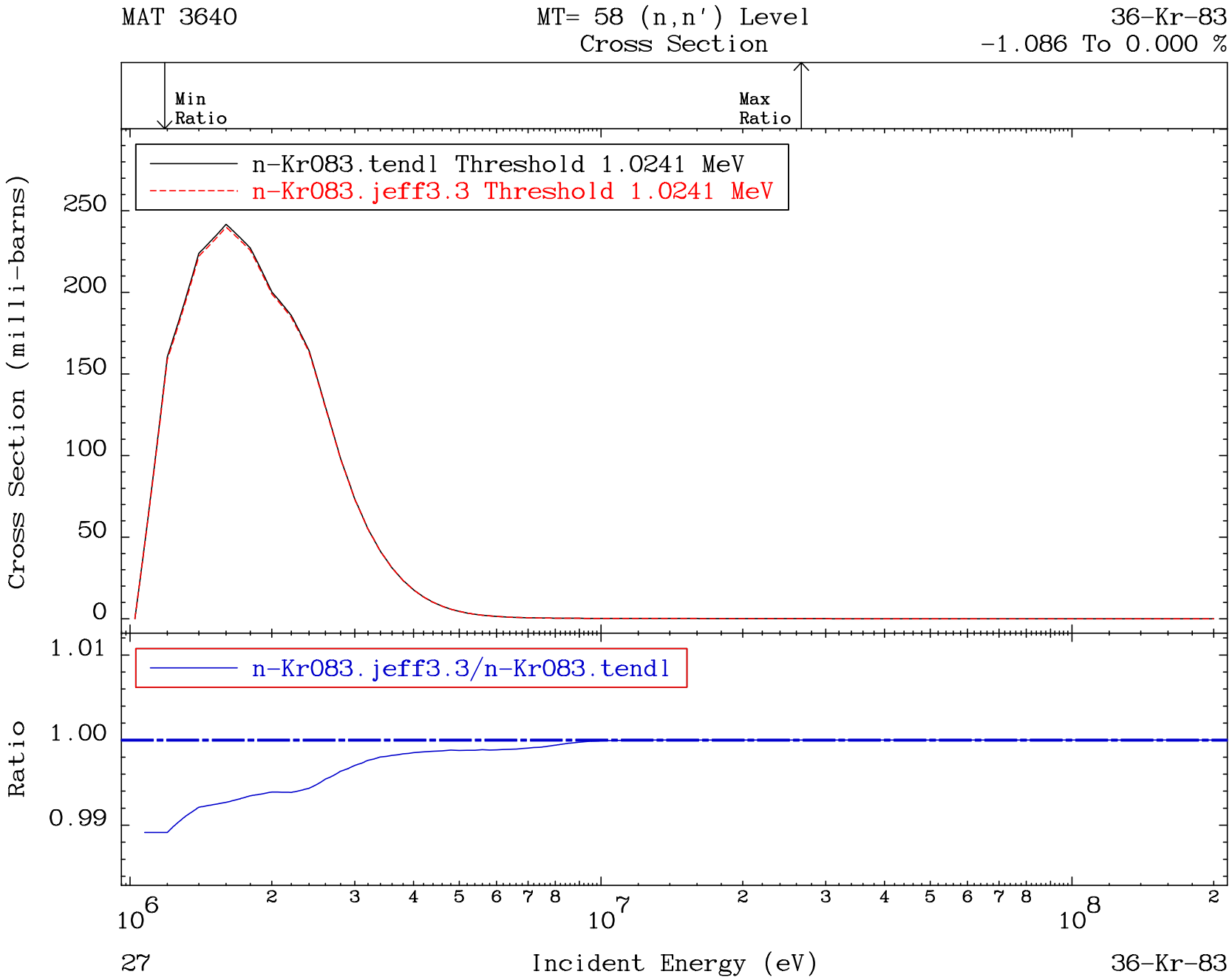

MAT 3640
MT= 53 (n,n') Level
Cross Section
36-Kr-83
-1.233 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 568.79 keV
n-Kr083.jeff3.3 Threshold 568.79 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.99
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
36-Kr-83

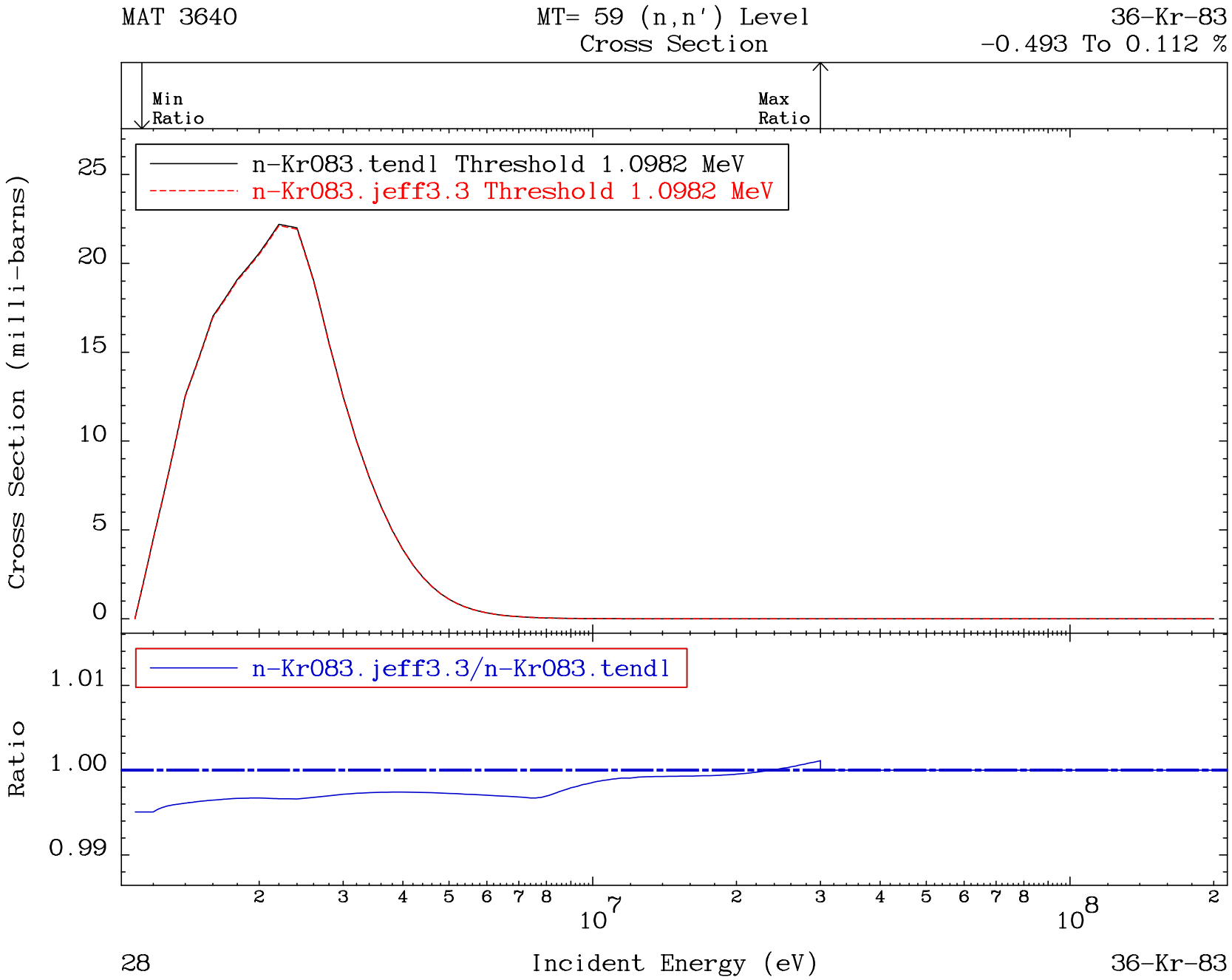

MAT 3640
MT= 54 (n,n') Level
Cross Section
36-Kr-83
-2.877 To 0.112 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 578.10 keV
n-Kr083.jeff3.3 Threshold 578.10 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
0.98
0.97
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
36-Kr-83

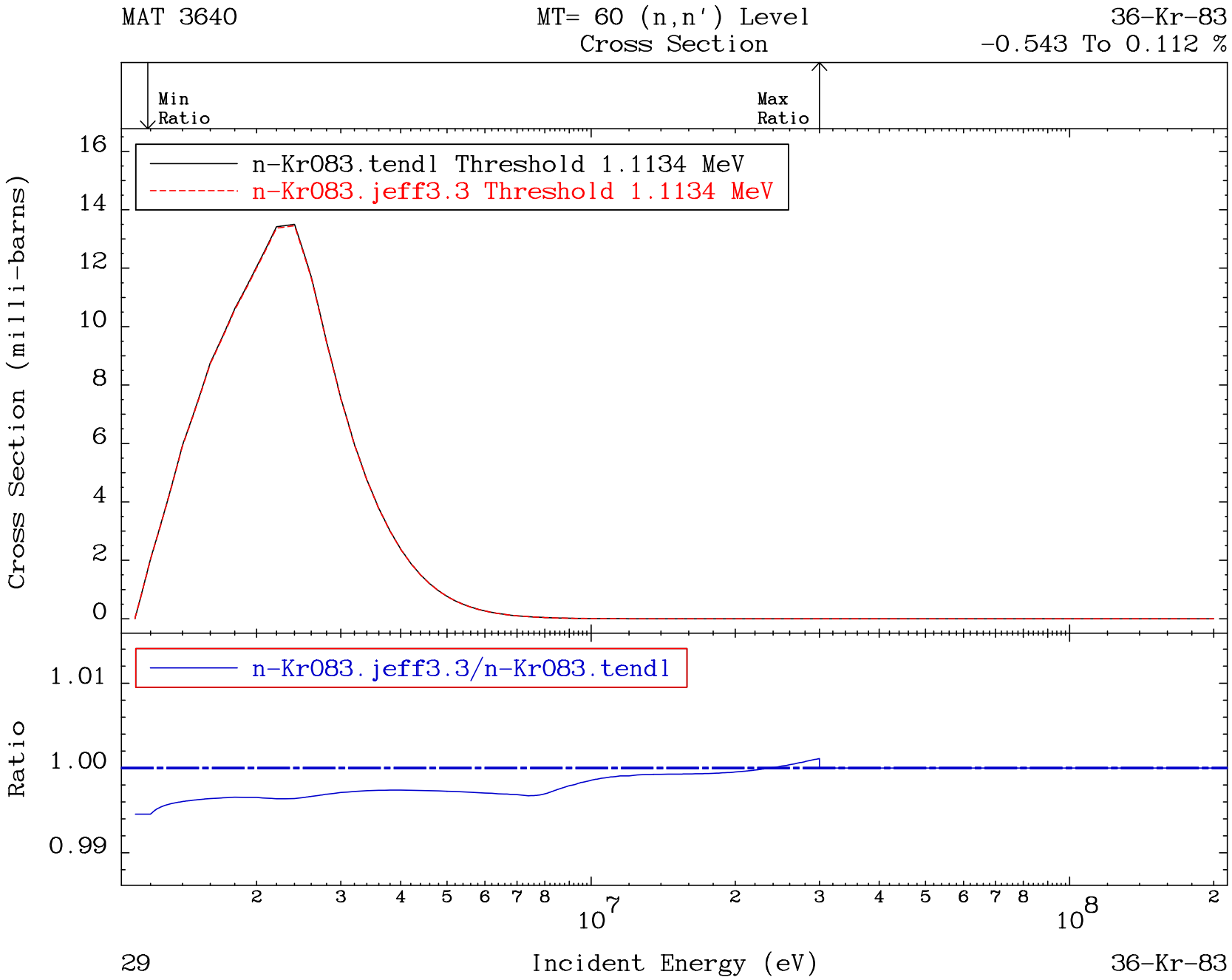

MAT 3640
MT= 55 (n,n') Level
Cross Section
36-Kr-83
-0.833 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 698.70 keV
n-Kr083.jeff3.3 Threshold 698.70 keV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
36-Kr-83

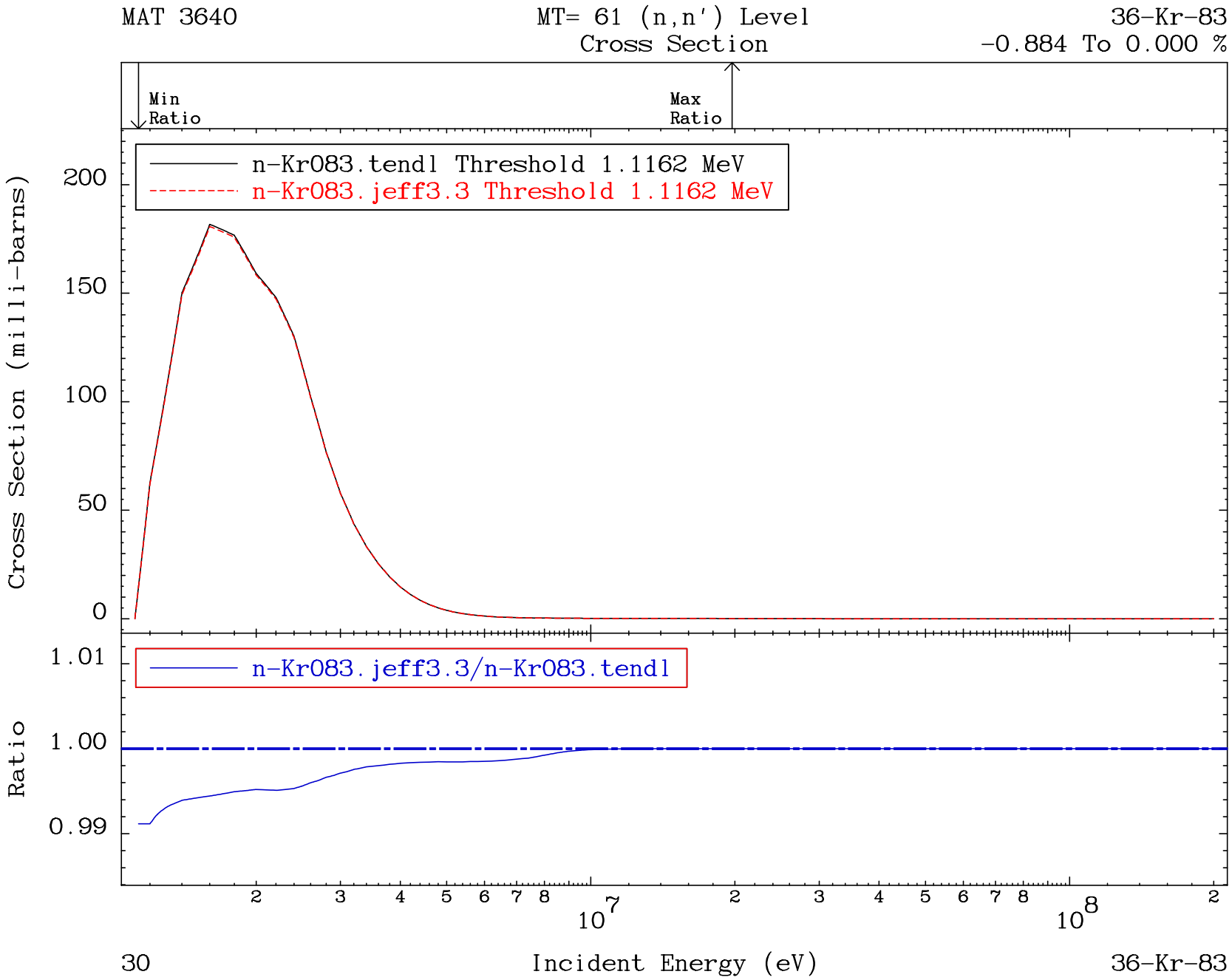

MAT 3640
MT= 56 (n,n') Level
Cross Section
36-Kr-83
-0.599 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 808.92 keV
n-Kr083.jeff3.3 Threshold 808.92 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
36-Kr-83

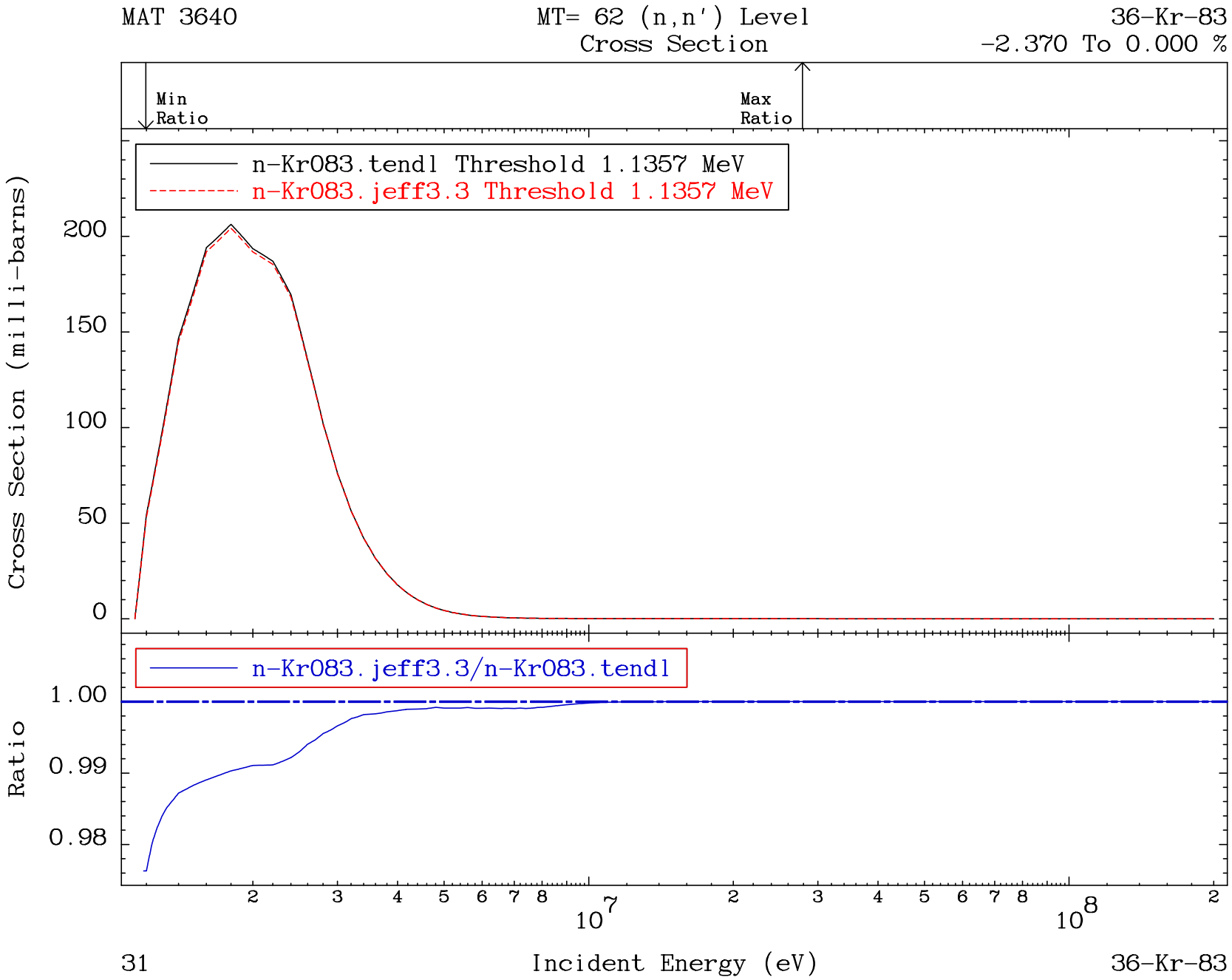

MAT 3640
MT= 57 (n,n') Level
Cross Section
36-Kr-83
-0.913 To 0.112 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 820.87 keV
n-Kr083.jeff3.3 Threshold 820.87 keV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
8
2
3
4
5
6
7
8
10^6
10^7
10^8
26
Incident Energy (eV)
36-Kr-83

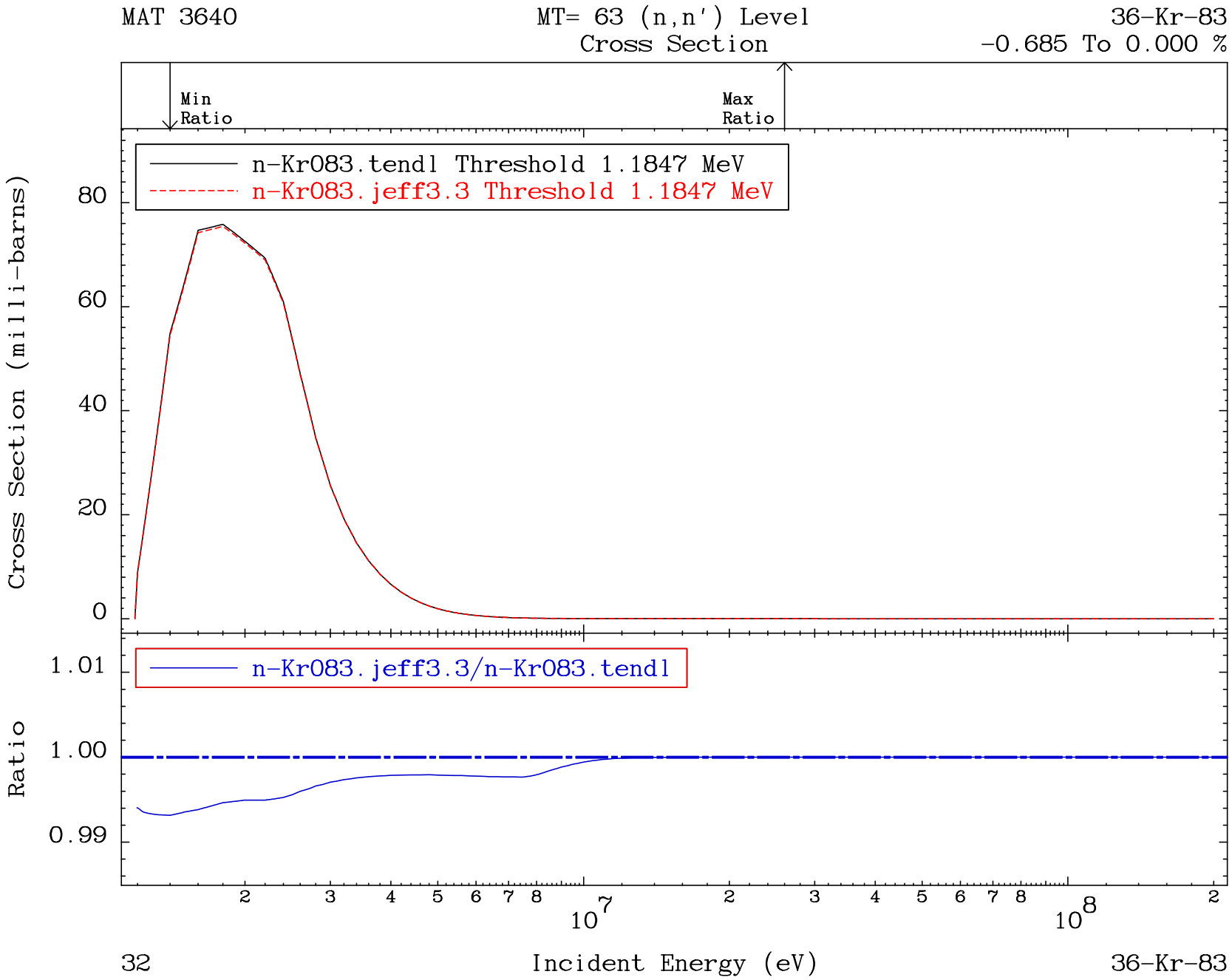

MAT 3640
MT= 58 (n,n') Level
Cross Section
36-Kr-83
-1.086 To 0.000 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 1.0241 MeV
n-Kr083.jeff3.3 Threshold 1.0241 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
36-Kr-83

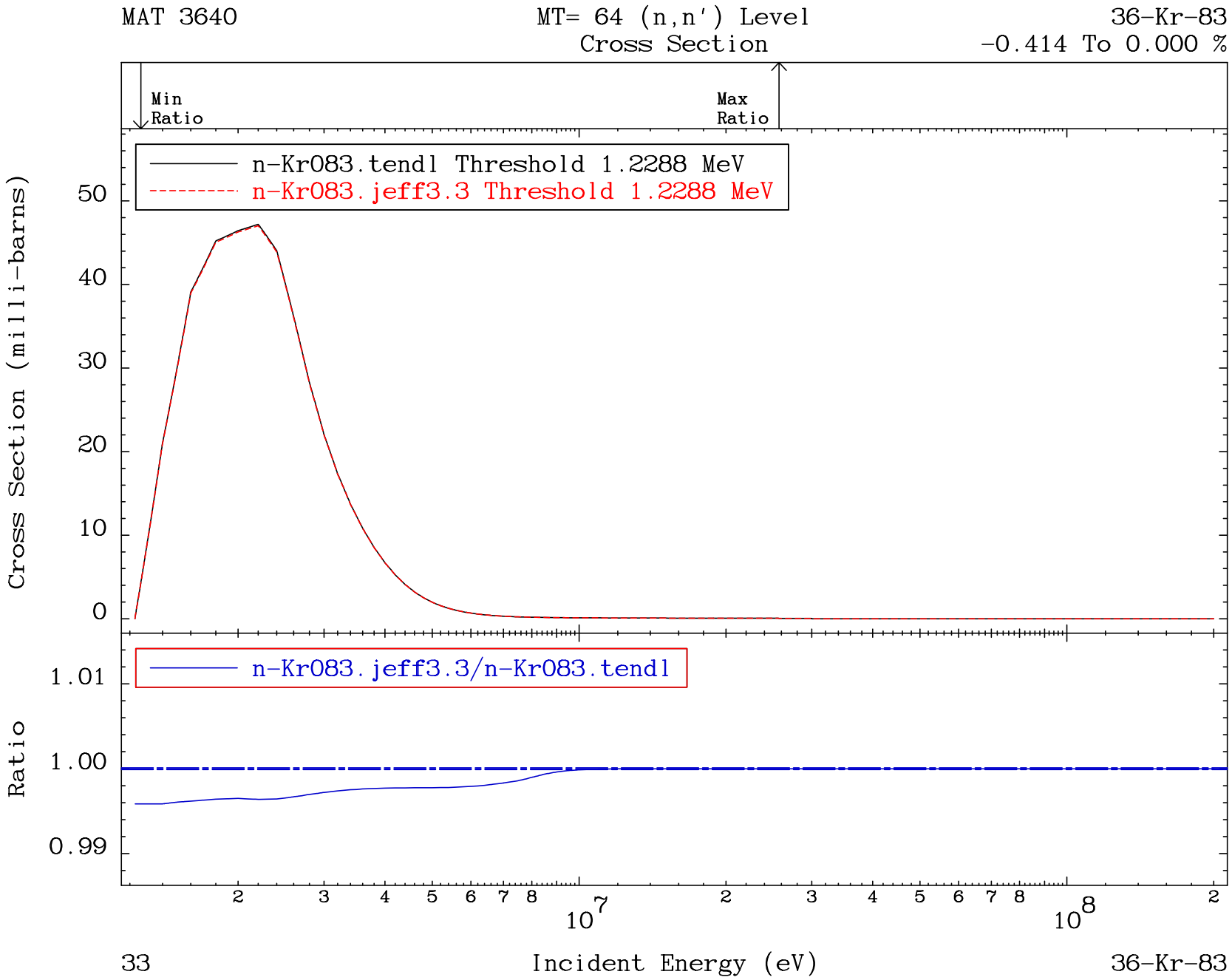

MAT 3640
MT= 59 (n,n') Level
Cross Section
36-Kr-83
-0.493 To 0.112 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.0982 MeV
n-Kr083.jeff3.3 Threshold 1.0982 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
36-Kr-83

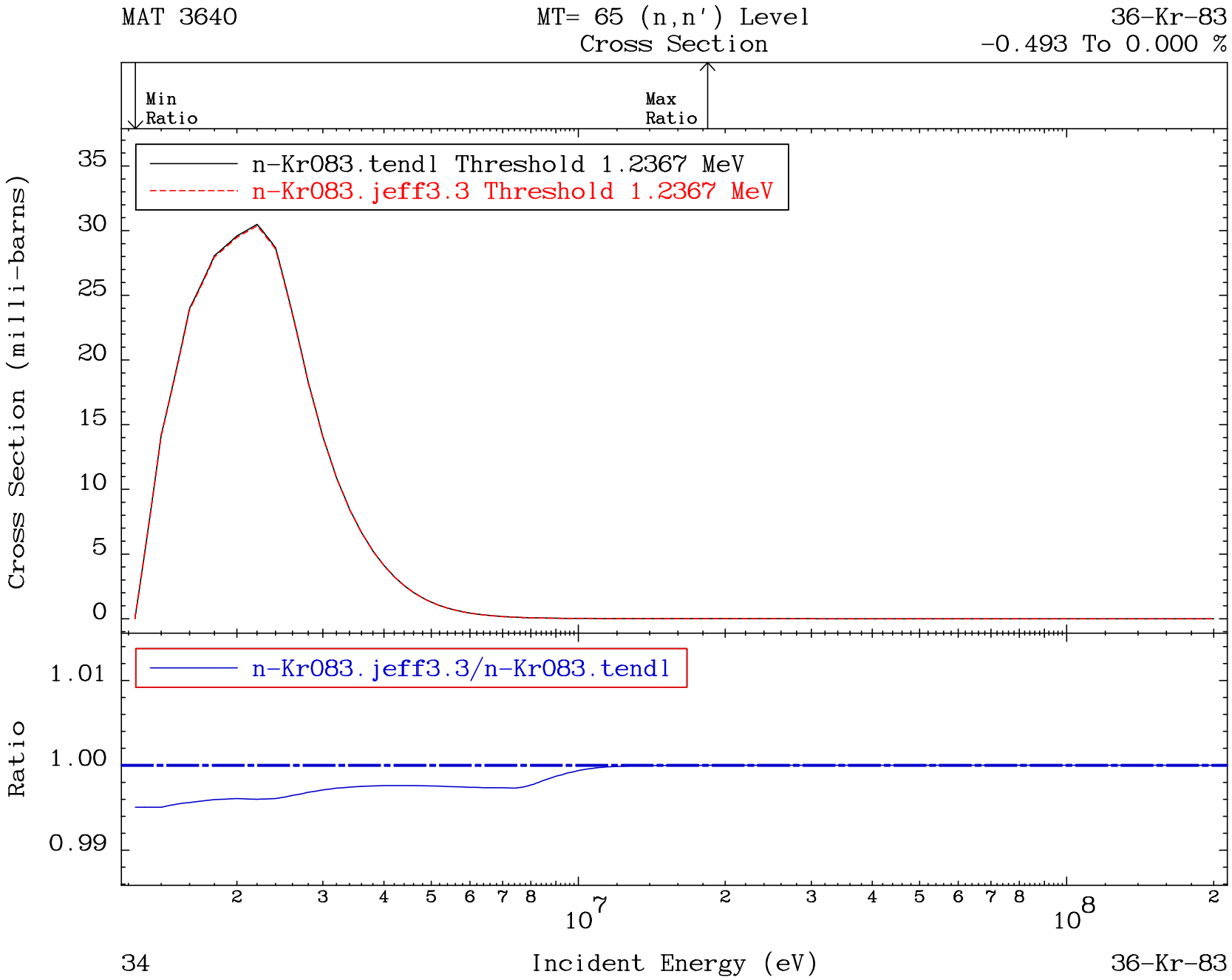

MAT 3640
MT= 60 (n,n') Level
Cross Section
36-Kr-83
-0.543 To 0.112 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.1134 MeV
n-Kr083.jeff3.3 Threshold 1.1134 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
36-Kr-83

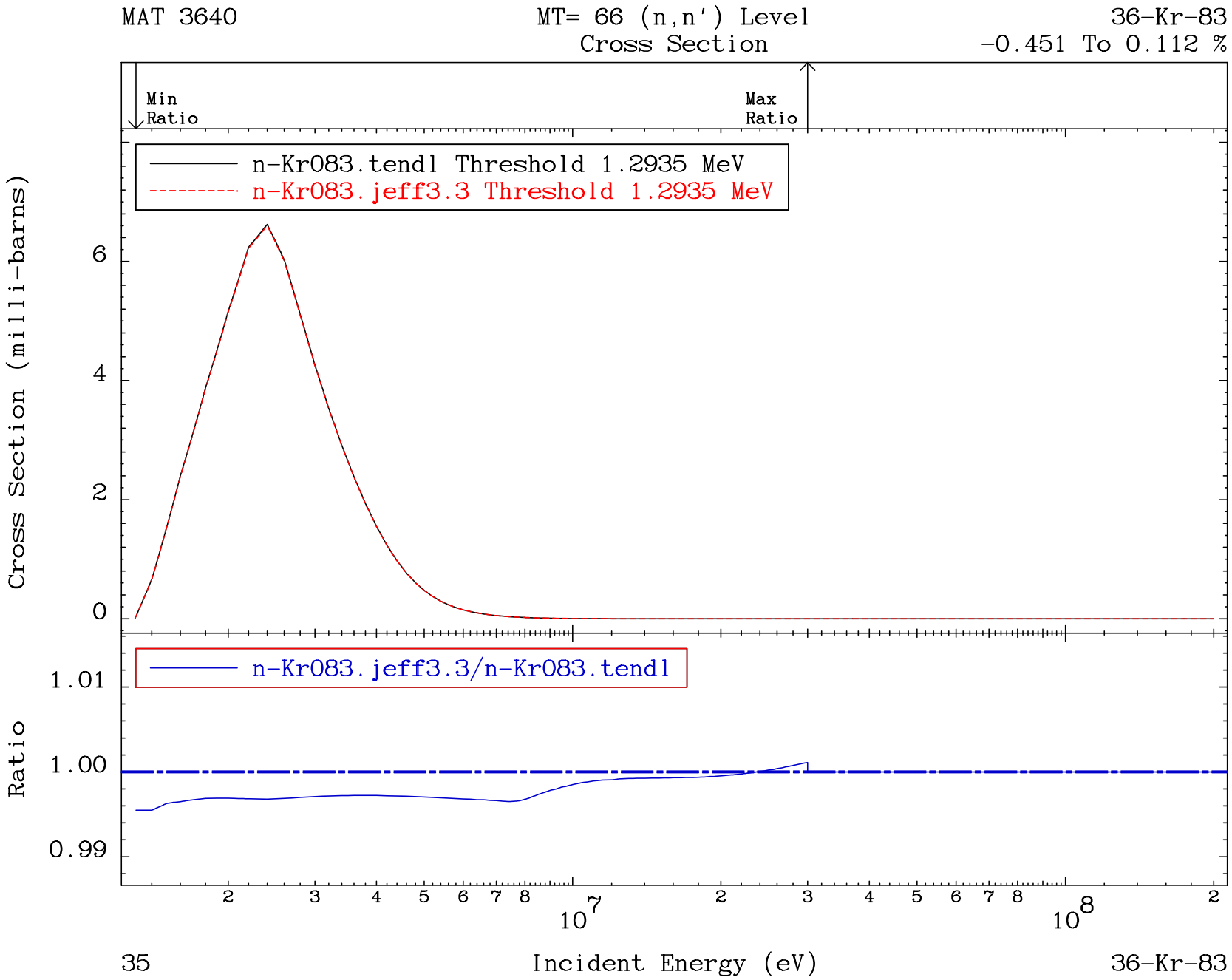

MAT 3640
MT= 61 (n,n') Level
Cross Section
36-Kr-83
-0.884 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.1162 MeV
n-Kr083.jeff3.3 Threshold 1.1162 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
36-Kr-83

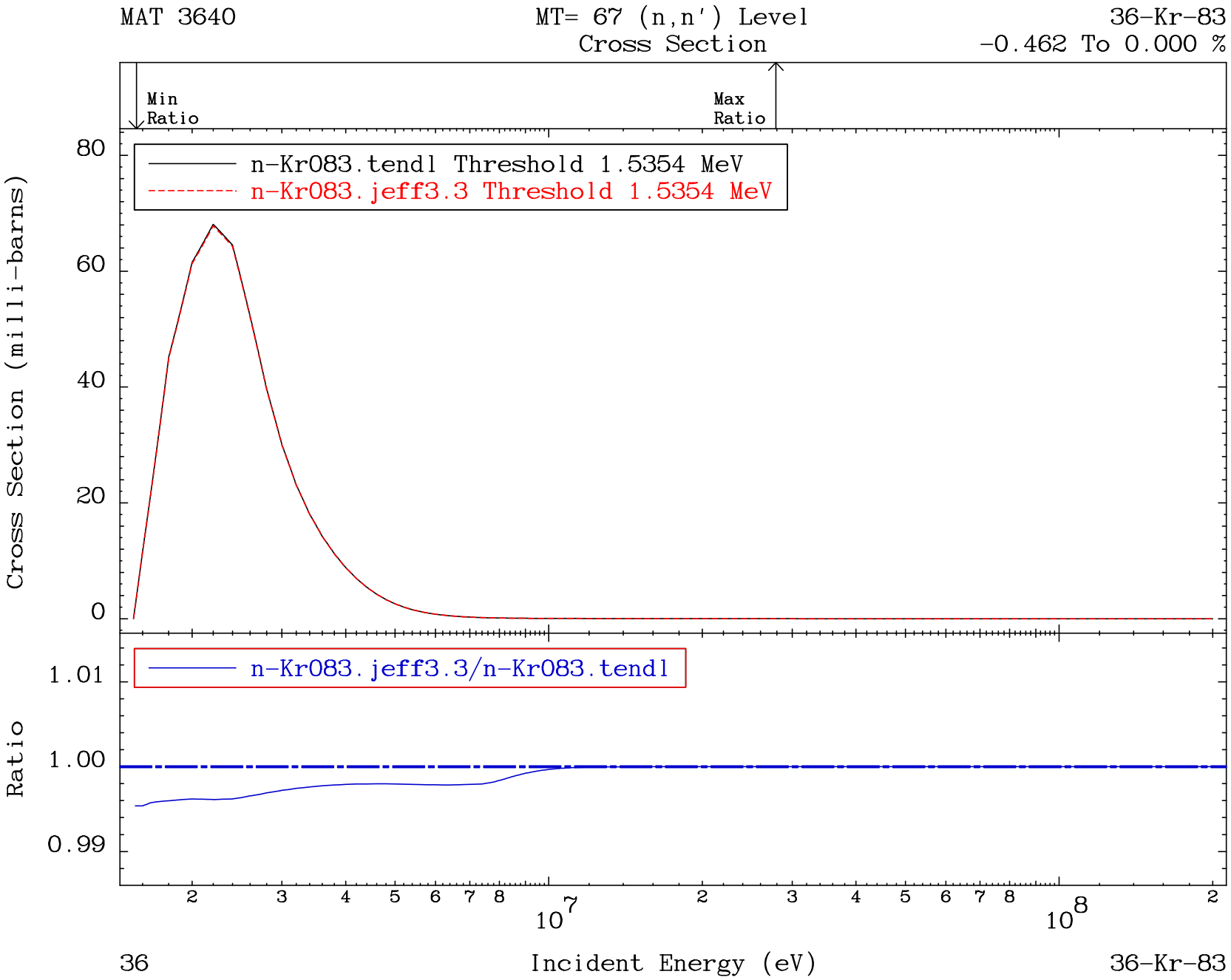

MAT 3640
MT= 62 (n,n') Level
Cross Section
36-Kr-83
-2.370 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.1357 MeV
n-Kr083.jeff3.3 Threshold 1.1357 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
36-Kr-83

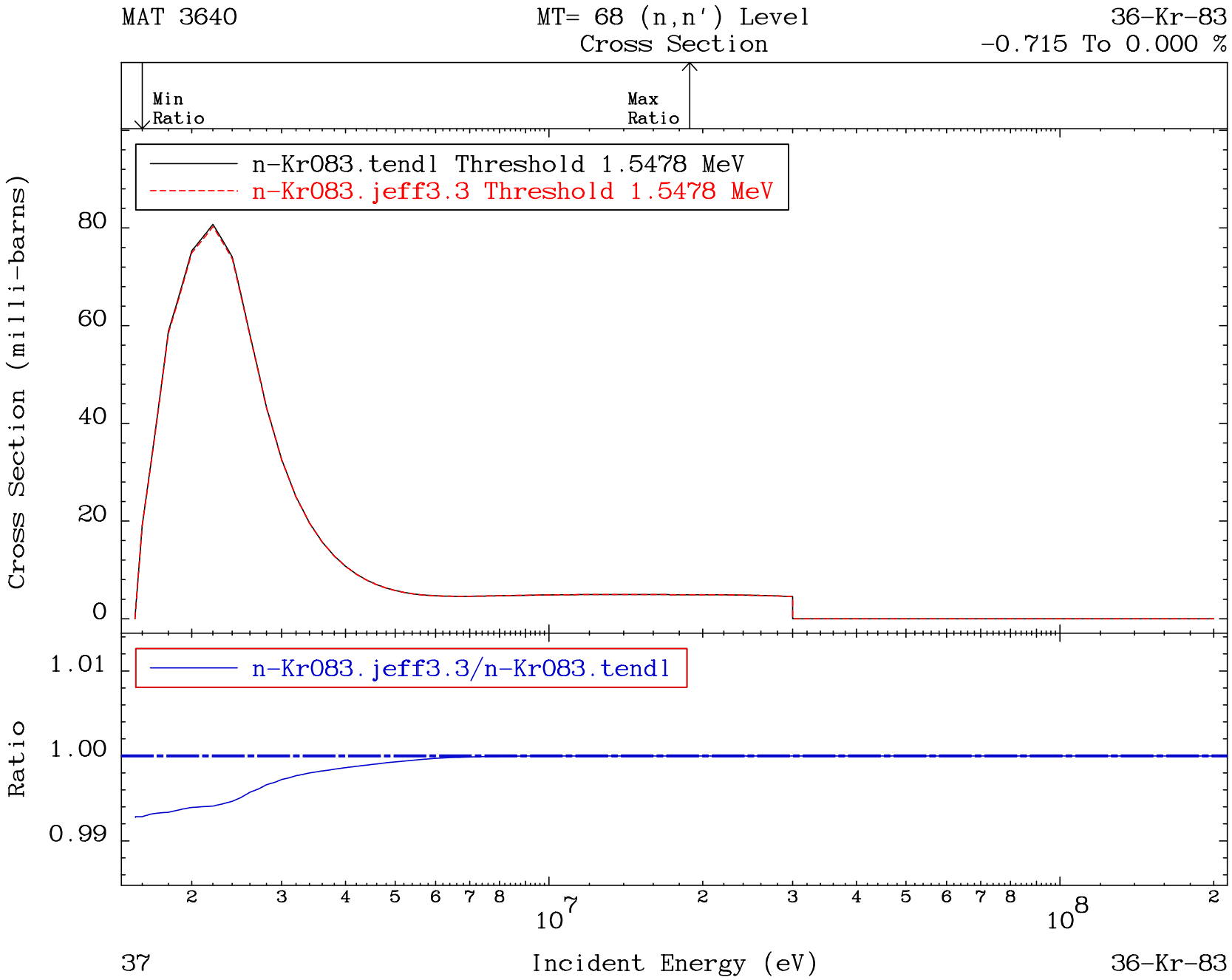

MAT 3640
MT= 63 (n,n') Level
Cross Section
36-Kr-83
-0.685 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.1847 MeV
n-Kr083.jeff3.3 Threshold 1.1847 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
36-Kr-83

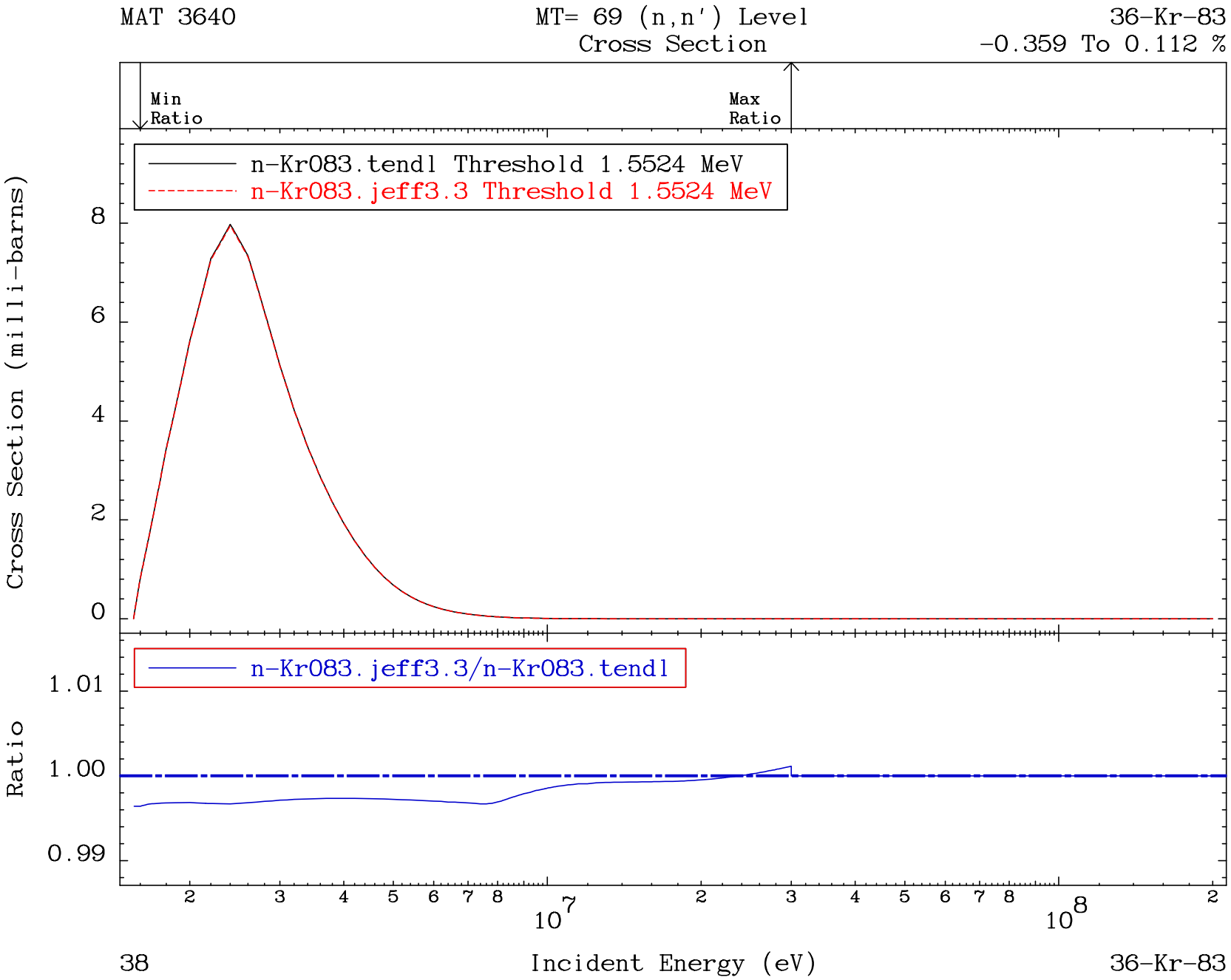

MAT 3640
MT= 64 (n,n') Level
Cross Section
36-Kr-83
-0.414 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.2288 MeV
n-Kr083.jeff3.3 Threshold 1.2288 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
36-Kr-83

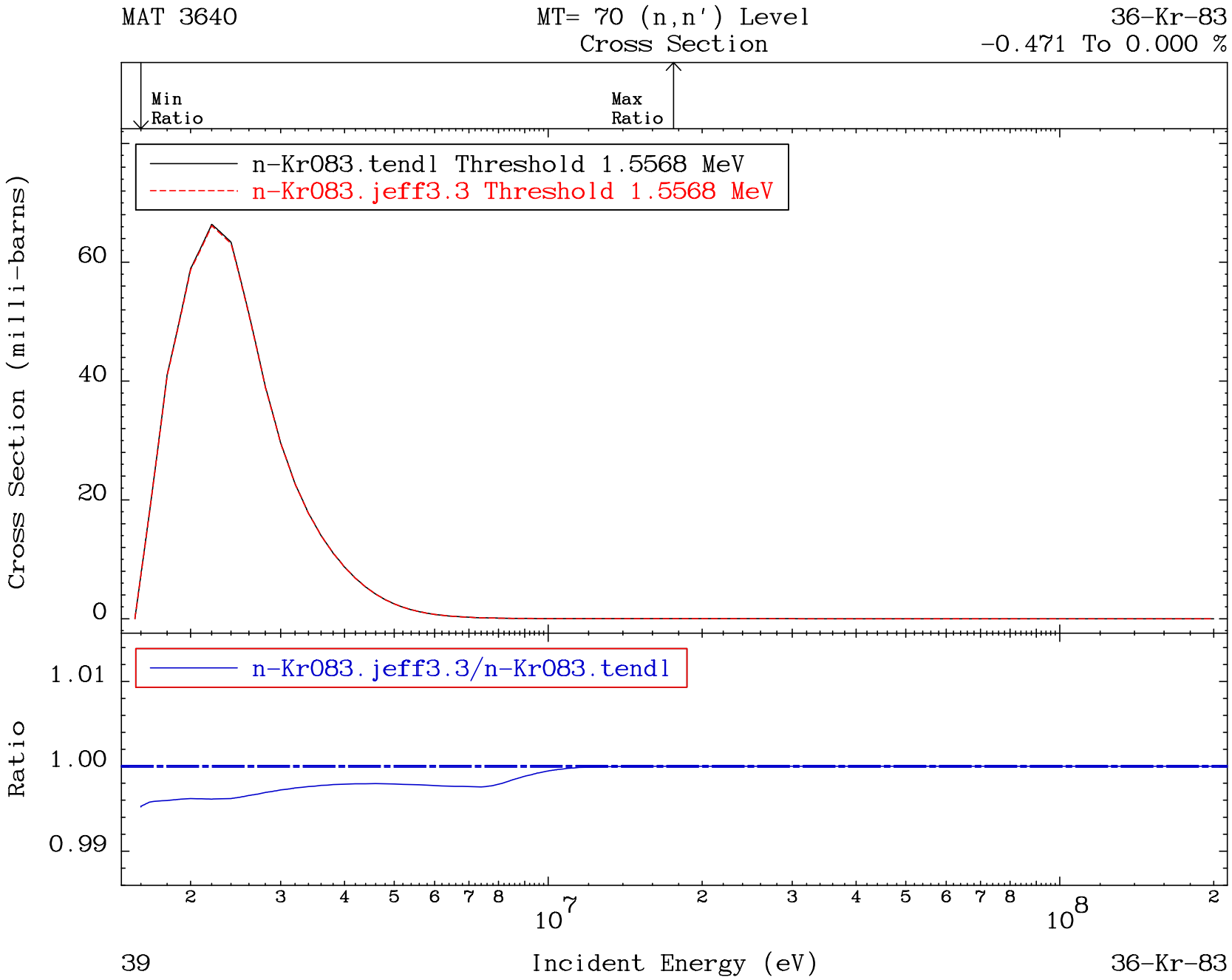

MAT 3640
MT= 65 (n,n') Level
Cross Section
36-Kr-83
-0.493 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.2367 MeV
n-Kr083.jeff3.3 Threshold 1.2367 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
36-Kr-83

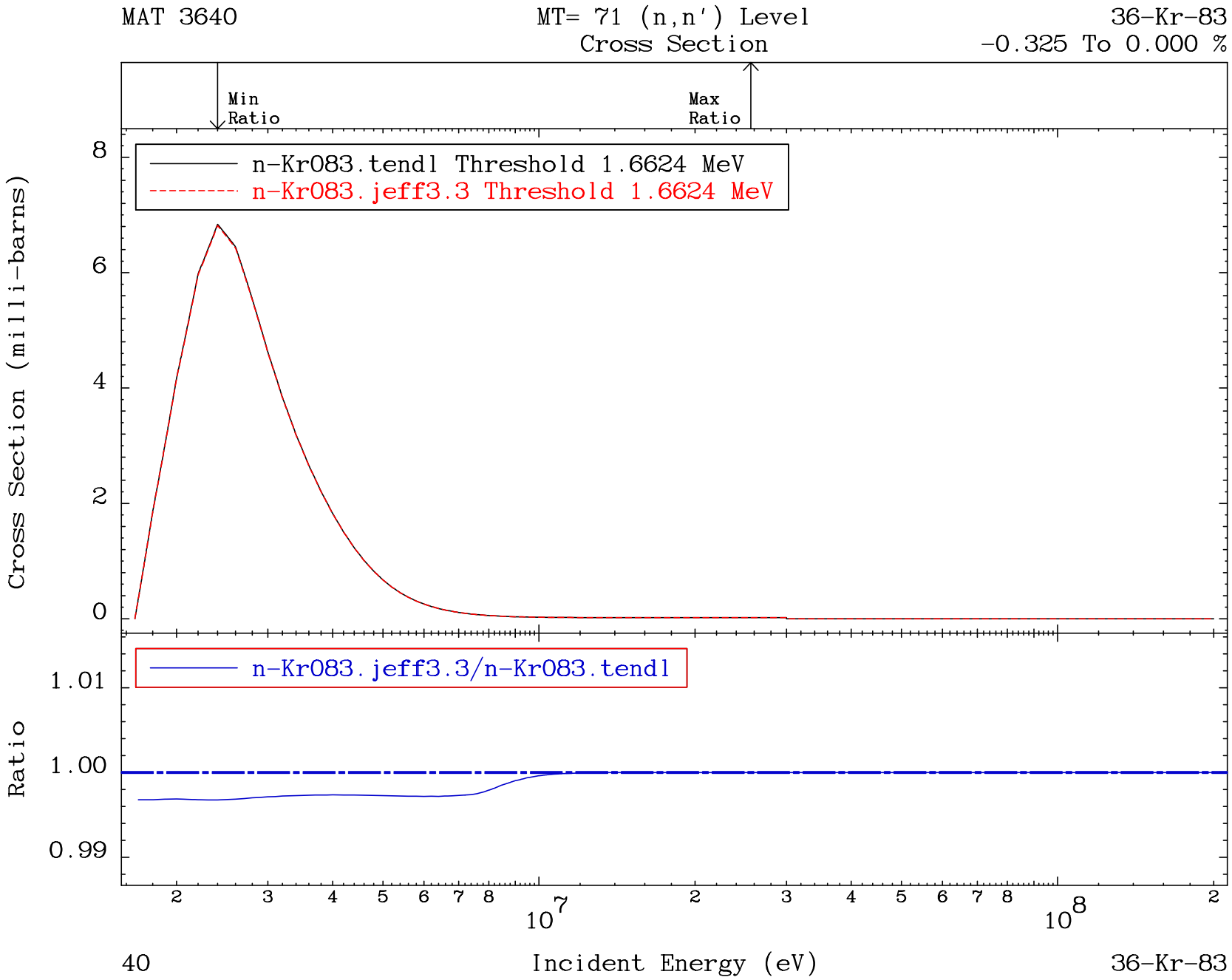

MAT 3640
MT= 66 (n,n') Level
Cross Section
36-Kr-83
-0.451 To 0.112 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.2935 MeV
n-Kr083.jeff3.3 Threshold 1.2935 MeV
Cross Section (milli-barns)
0
2
4
6
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
0.99
1.00
1.01
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
36-Kr-83

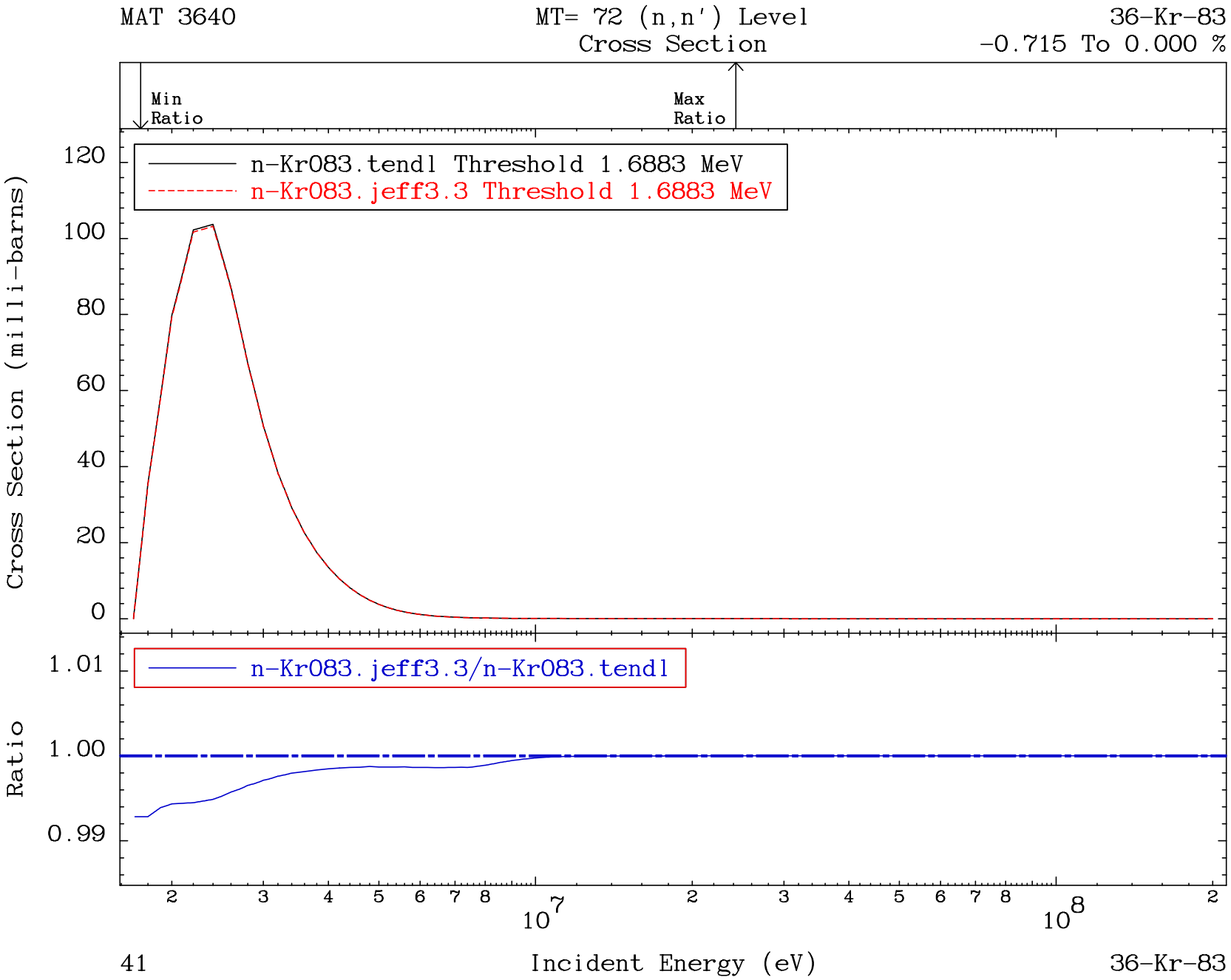

MAT 3640
MT= 67 (n,n') Level
Cross Section
36-Kr-83
-0.462 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.5354 MeV
n-Kr083.jeff3.3 Threshold 1.5354 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
36-Kr-83

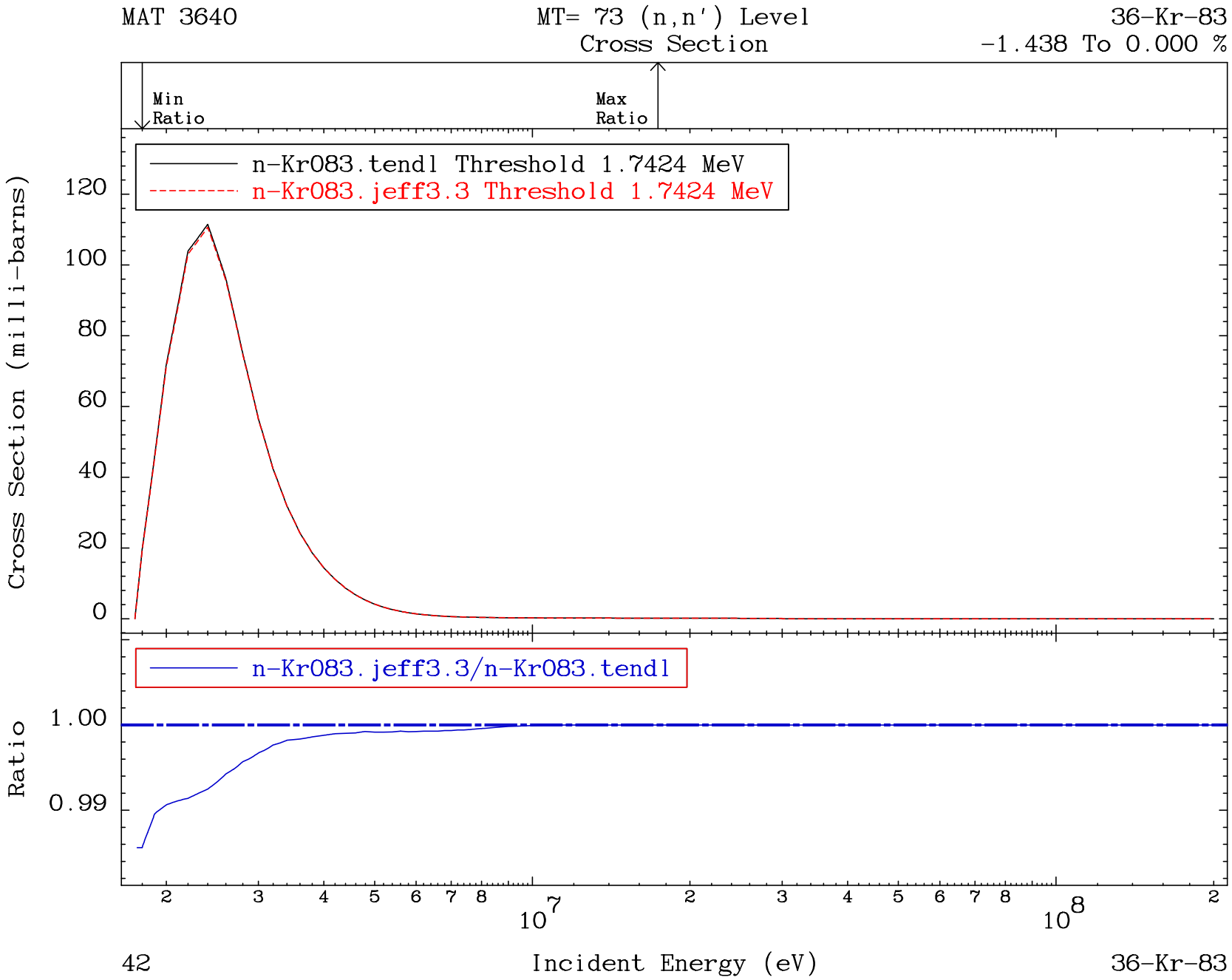

MAT 3640
MT= 68 (n,n') Level
Cross Section
36-Kr-83
-0.715 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.5478 MeV
n-Kr083.jeff3.3 Threshold 1.5478 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
36-Kr-83

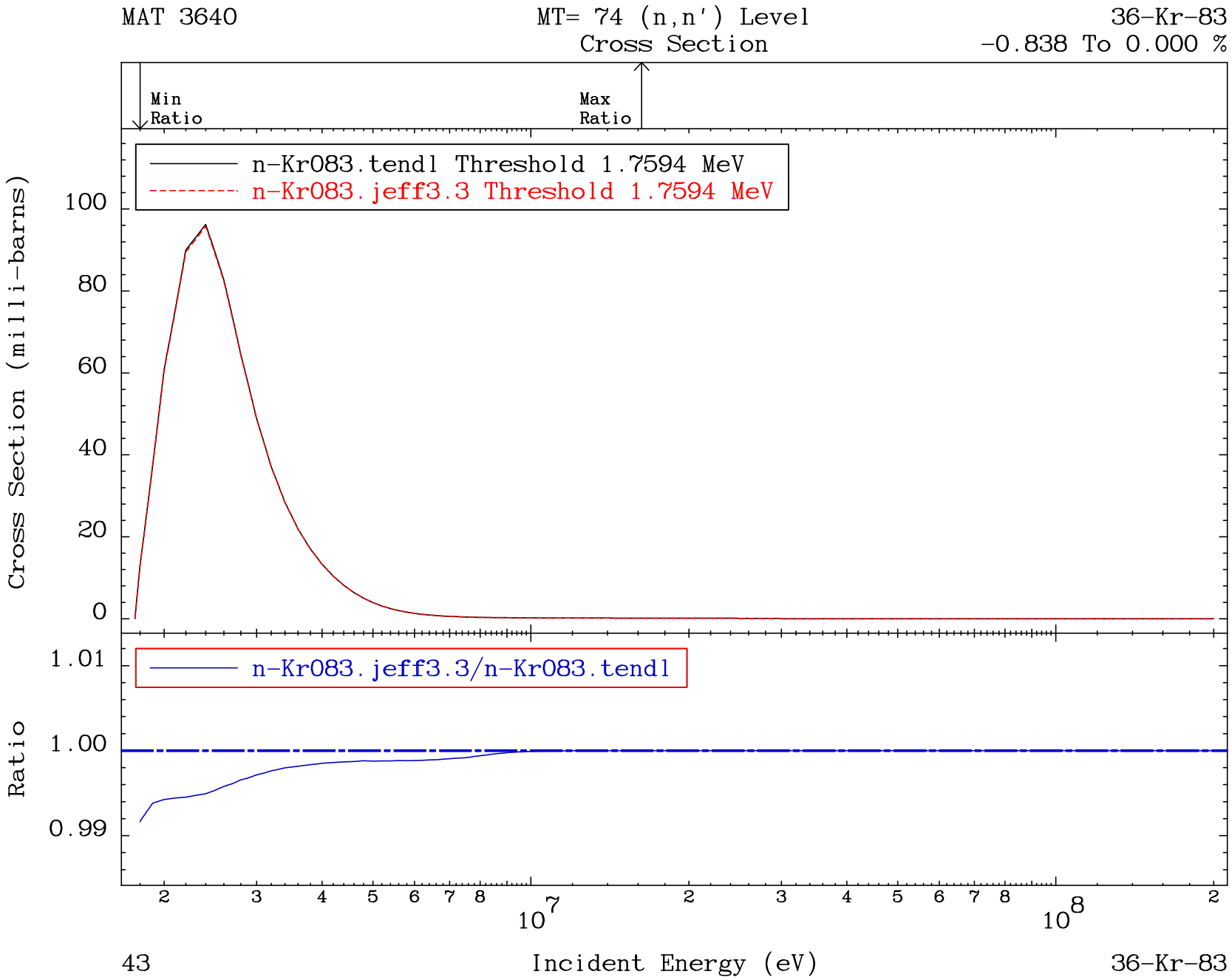

MAT 3640
MT= 69 (n,n') Level
Cross Section
36-Kr-83
-0.359 To 0.112 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.5524 MeV
n-Kr083.jeff3.3 Threshold 1.5524 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
0.99
1.00
1.01
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
36-Kr-83

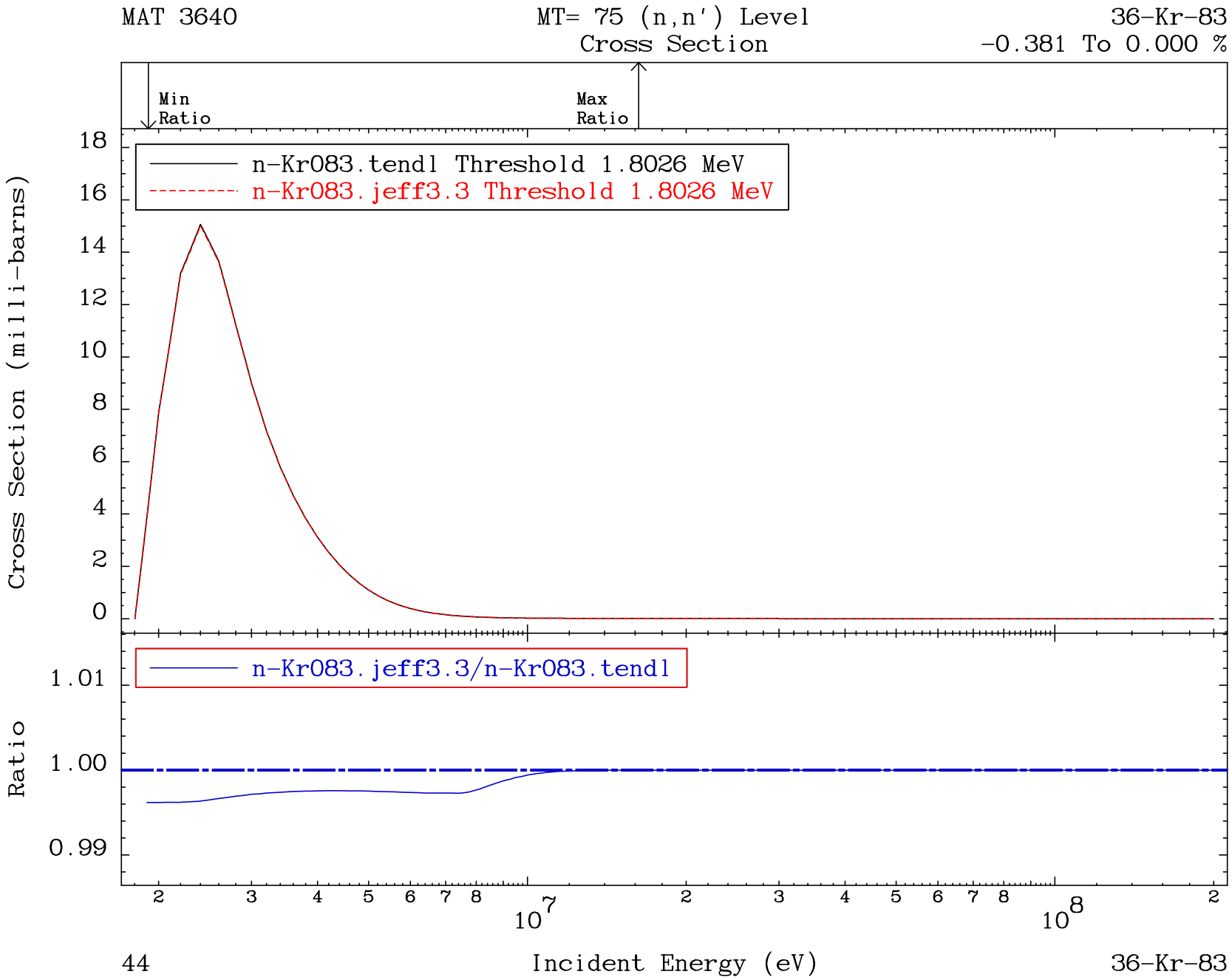

MAT 3640
MT= 70 (n,n') Level
Cross Section
36-Kr-83
-0.471 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.5568 MeV
n-Kr083.jeff3.3 Threshold 1.5568 MeV
Cross Section (milli-barns)
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
36-Kr-83

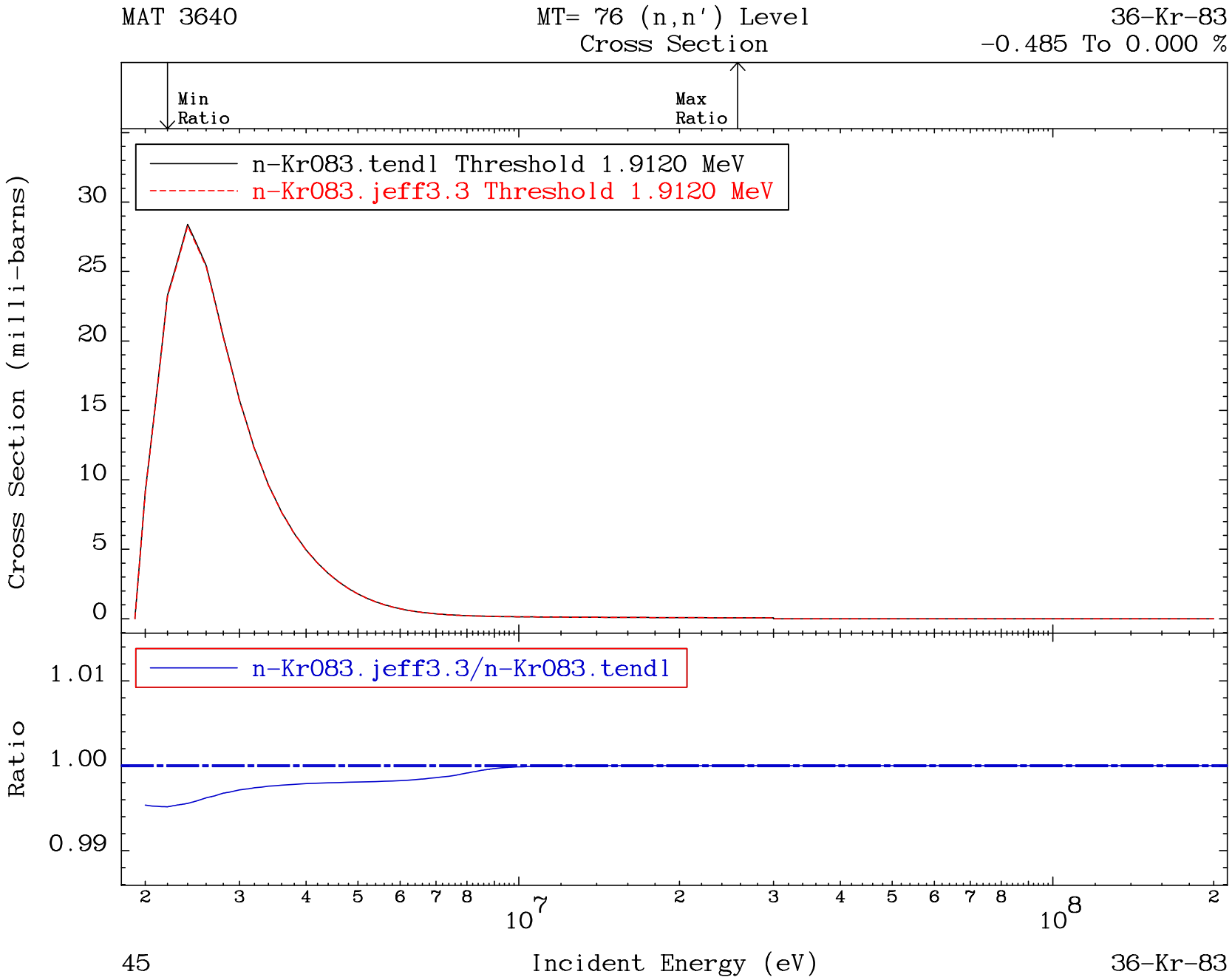

MAT 3640
MT= 71 (n,n') Level
Cross Section
36-Kr-83
-0.325 To 0.000 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 1.6624 MeV
n-Kr083.jeff3.3 Threshold 1.6624 MeV
Cross Section (milli-barns)
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
36-Kr-83

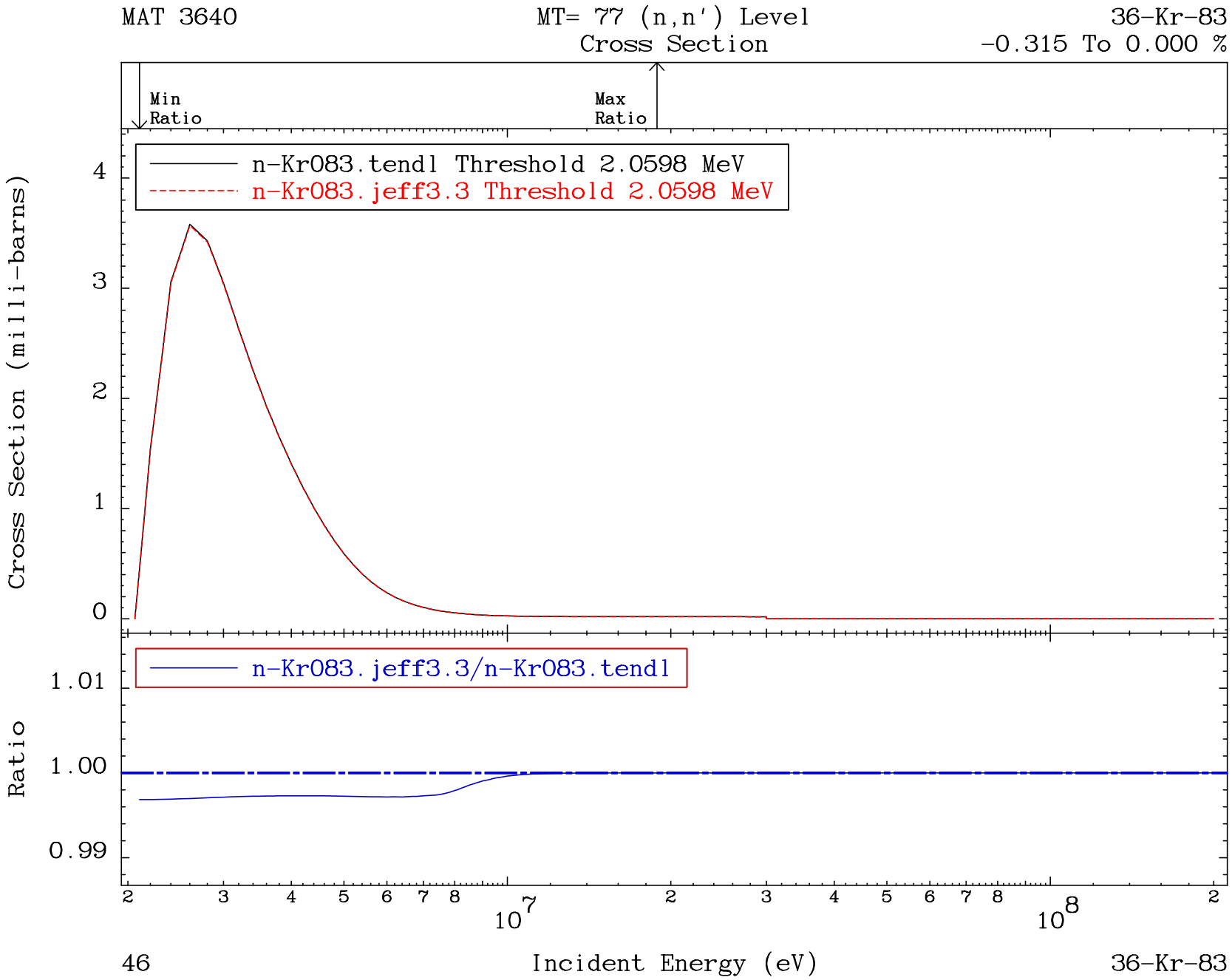

MAT 3640
MT= 72 (n,n') Level
Cross Section
36-Kr-83
-0.715 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.6883 MeV
n-Kr083.jeff3.3 Threshold 1.6883 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
36-Kr-83

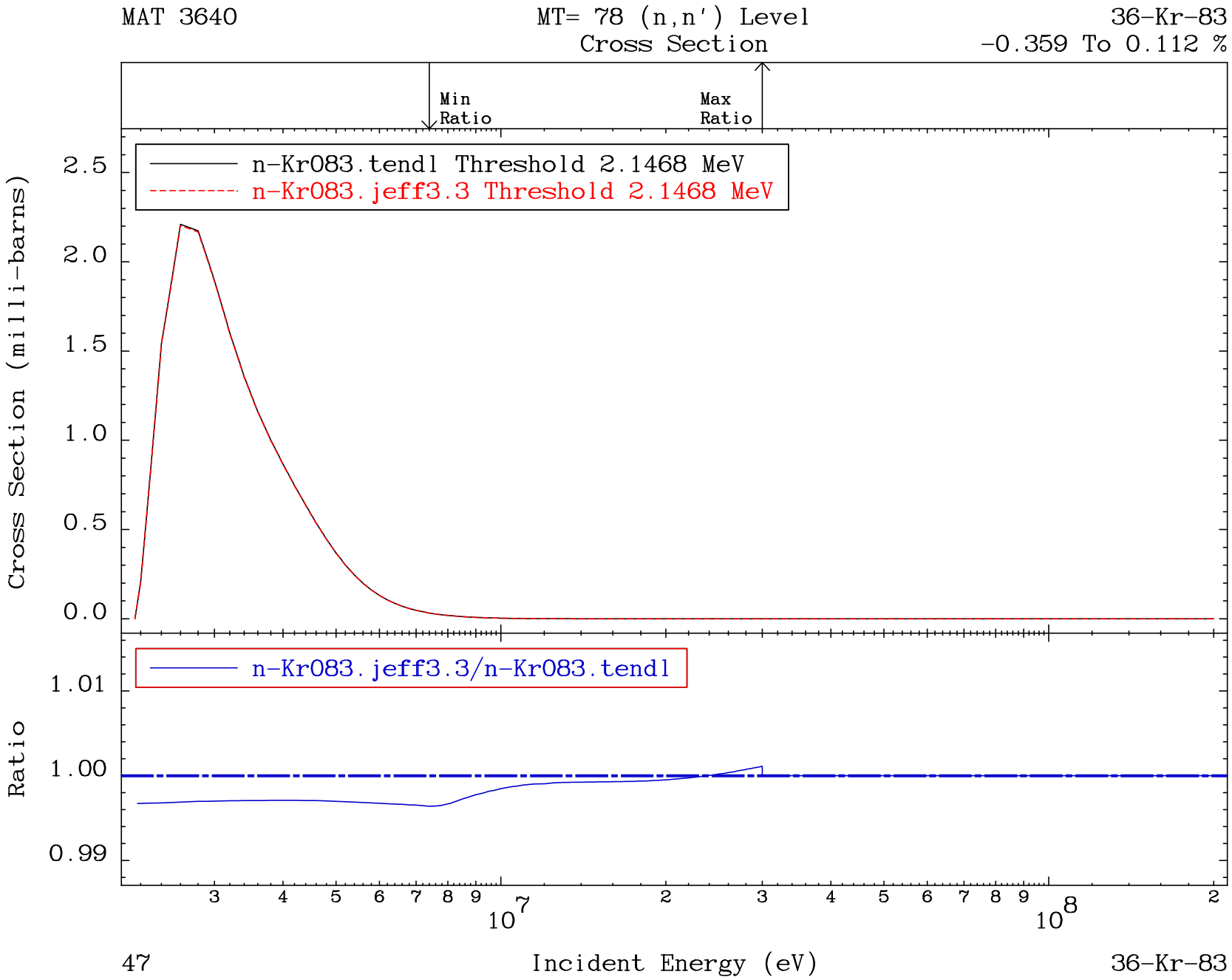

MAT 3640
MT= 73 (n,n') Level
Cross Section
36-Kr-83
-1.438 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.7424 MeV
n-Kr083.jeff3.3 Threshold 1.7424 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
36-Kr-83

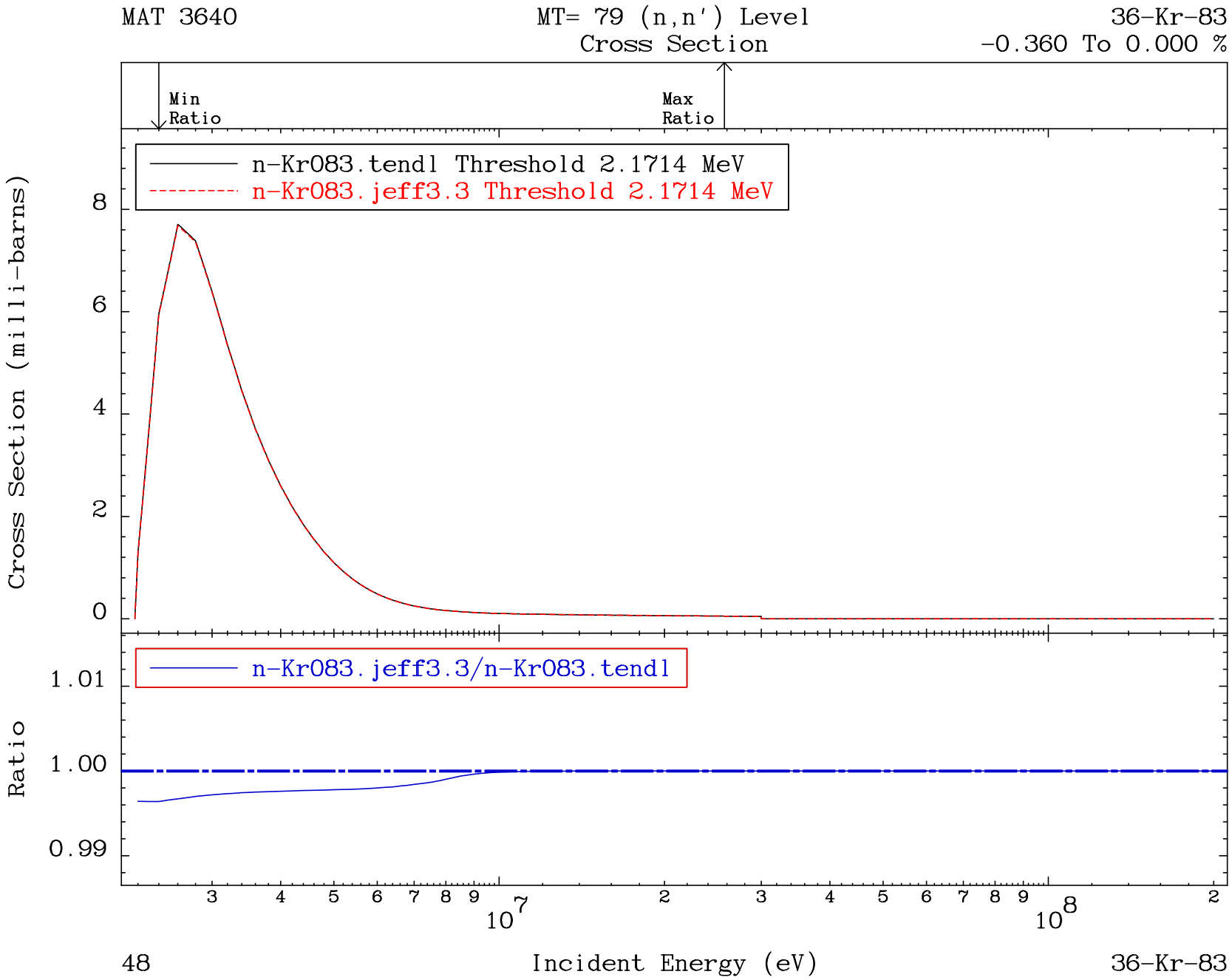

MAT 3640
MT= 74 (n,n') Level
Cross Section
36-Kr-83
-0.838 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.7594 MeV
n-Kr083.jeff3.3 Threshold 1.7594 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
36-Kr-83

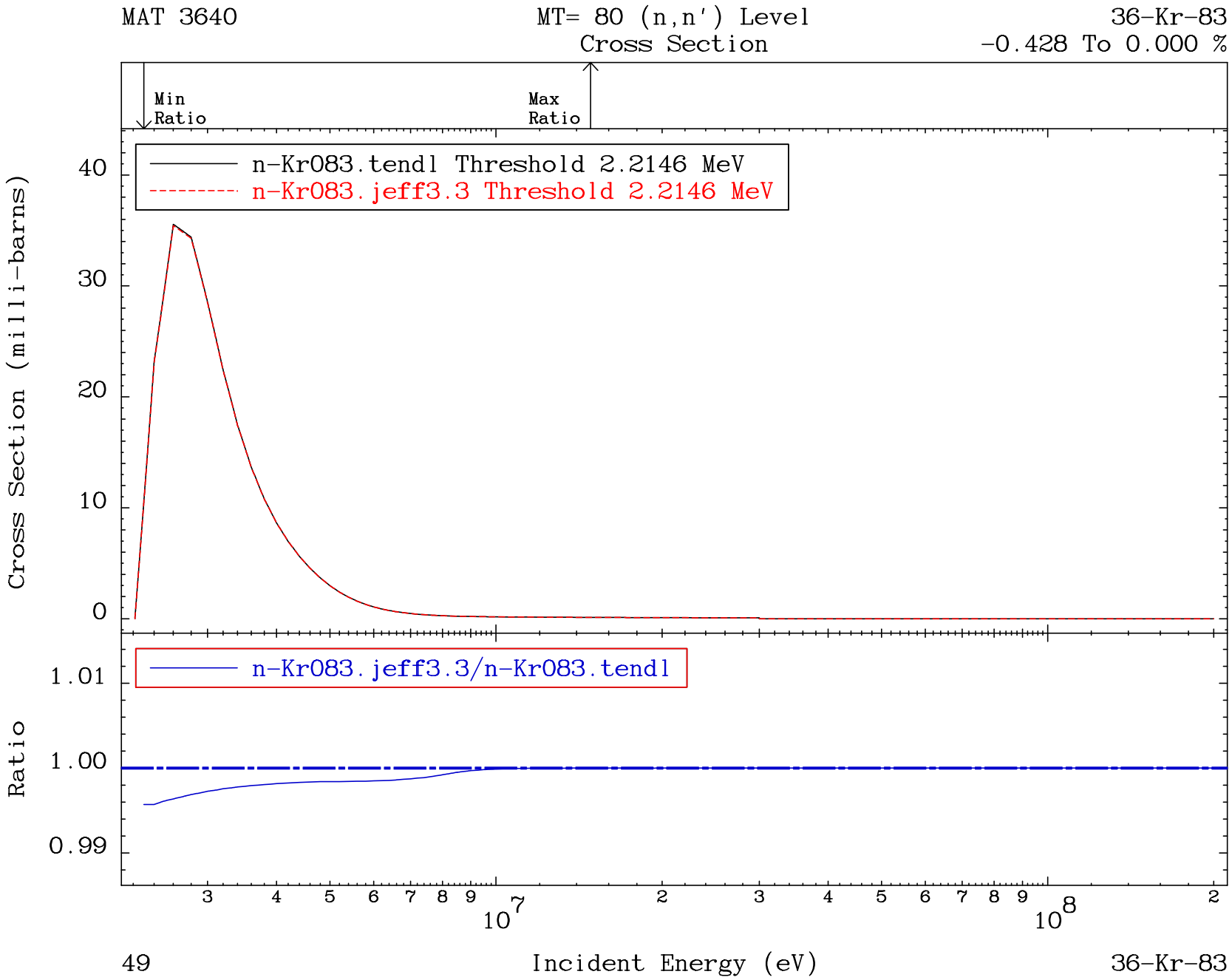

MAT 3640
MT= 75 (n,n') Level
Cross Section
36-Kr-83
-0.381 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 1.8026 MeV
n-Kr083.jeff3.3 Threshold 1.8026 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
36-Kr-83

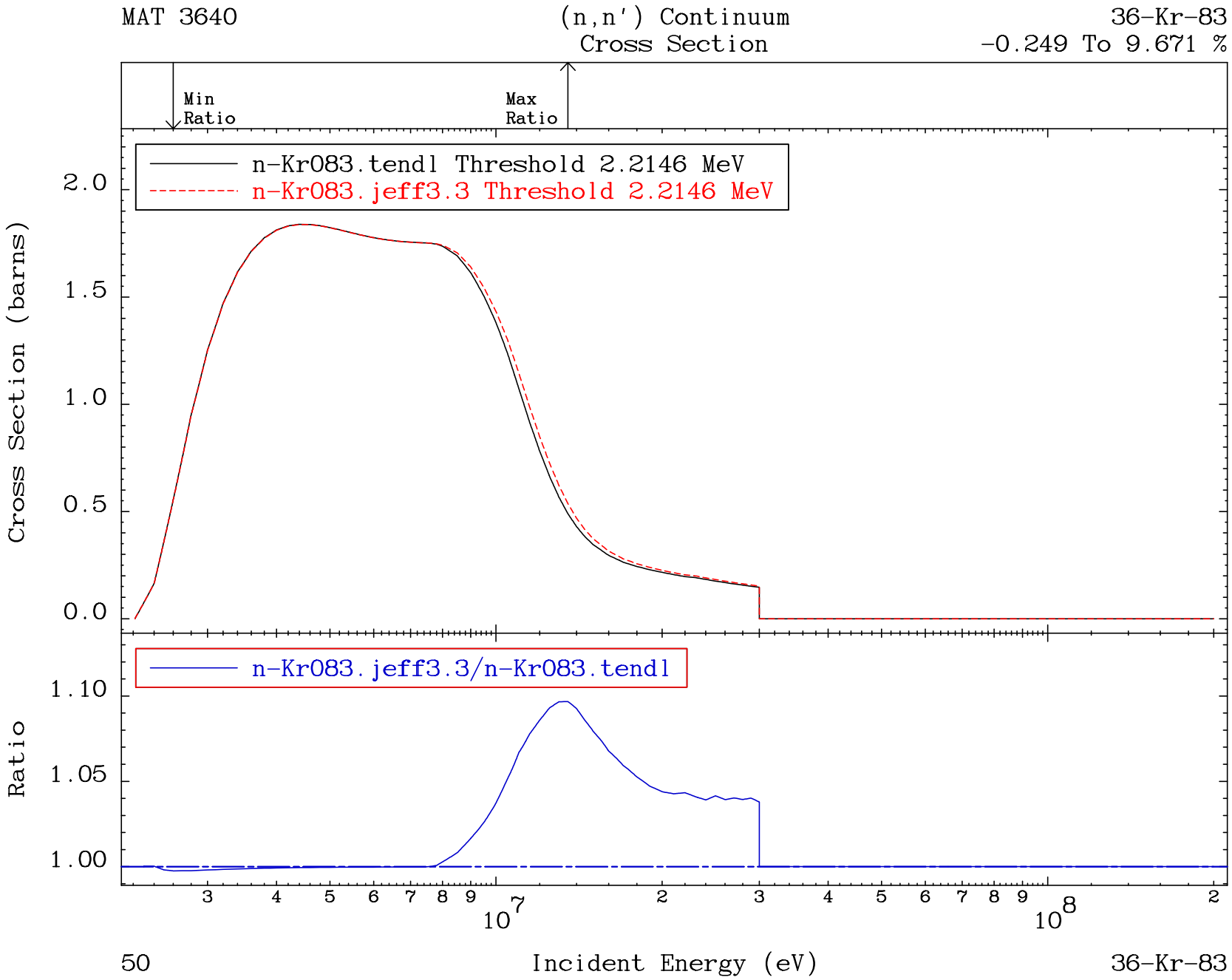

MAT 3640
MT= 76 (n,n') Level
Cross Section
36-Kr-83
-0.485 To 0.000 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 1.9120 MeV
n-Kr083.jeff3.3 Threshold 1.9120 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
36-Kr-83

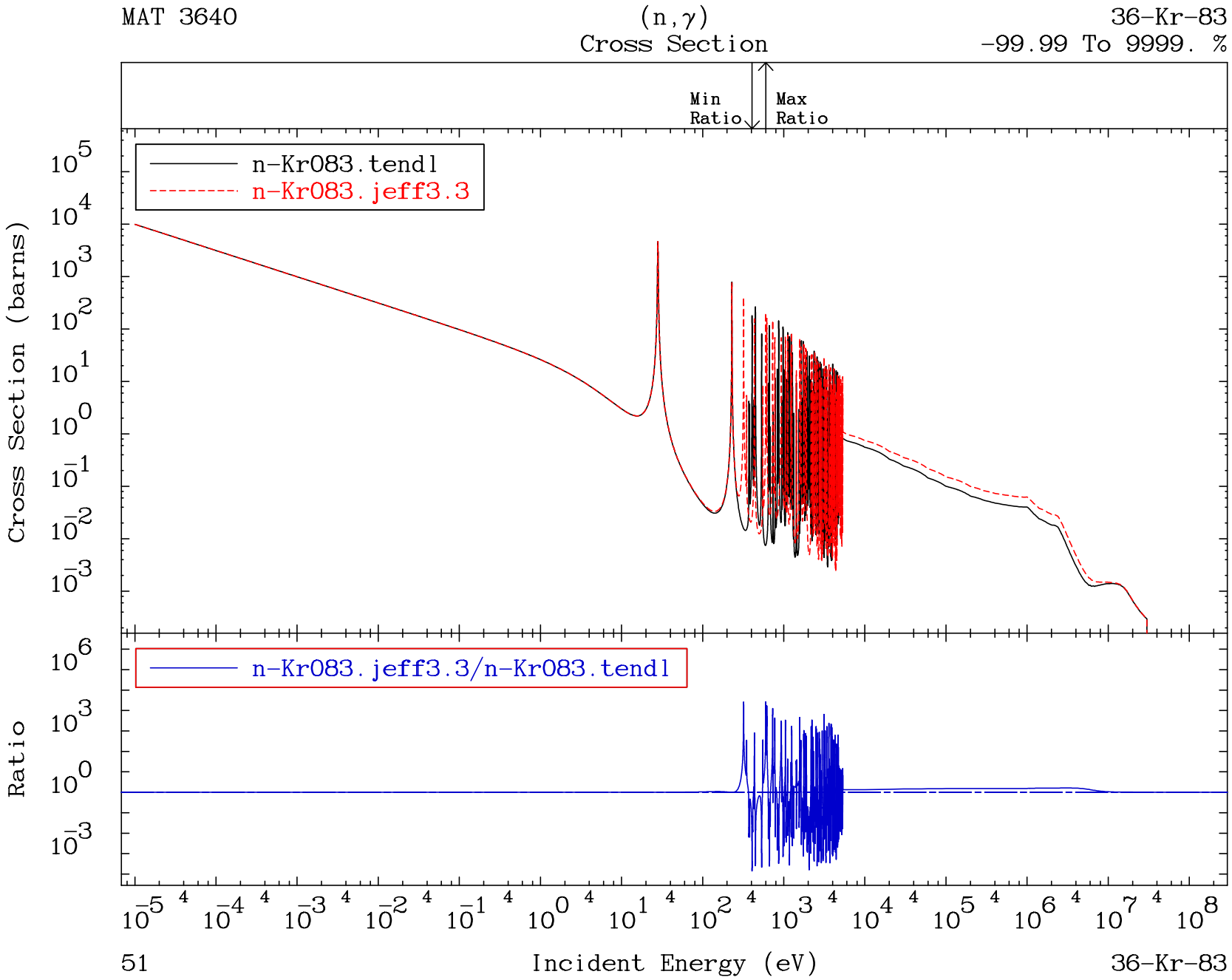

MAT 3640
MT= 77 (n,n') Level
Cross Section
36-Kr-83
-0.315 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 2.0598 MeV
n-Kr083.jeff3.3 Threshold 2.0598 MeV
Cross Section (milli-barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
46
36-Kr-83

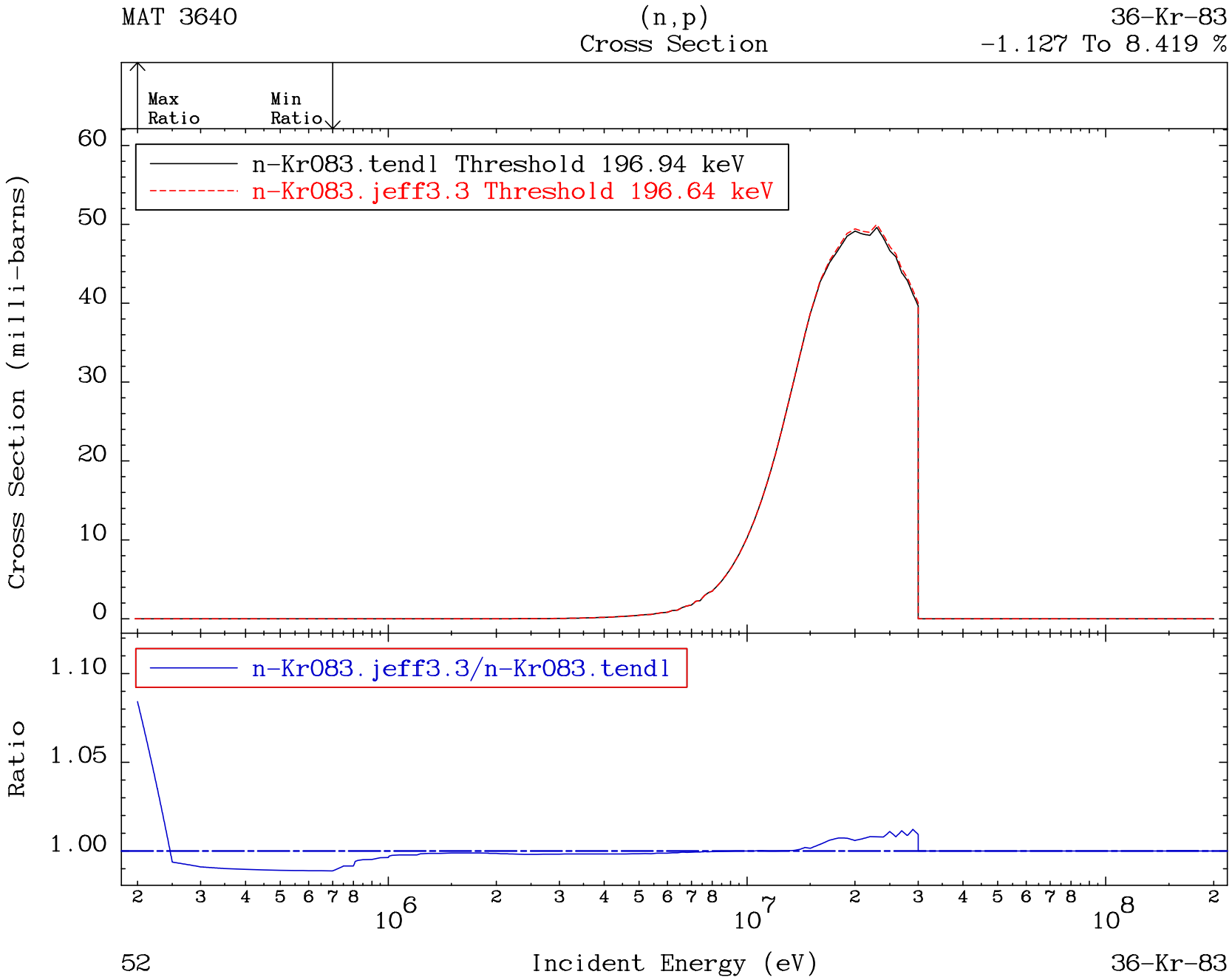

MAT 3640
MT= 78 (n,n') Level
Cross Section
36-Kr-83
-0.359 To 0.112 %
Min
Ratio
Max
Ratio
n-Kr083.tendl Threshold 2.1468 MeV
n-Kr083.jeff3.3 Threshold 2.1468 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
47
Incident Energy (eV)
36-Kr-83

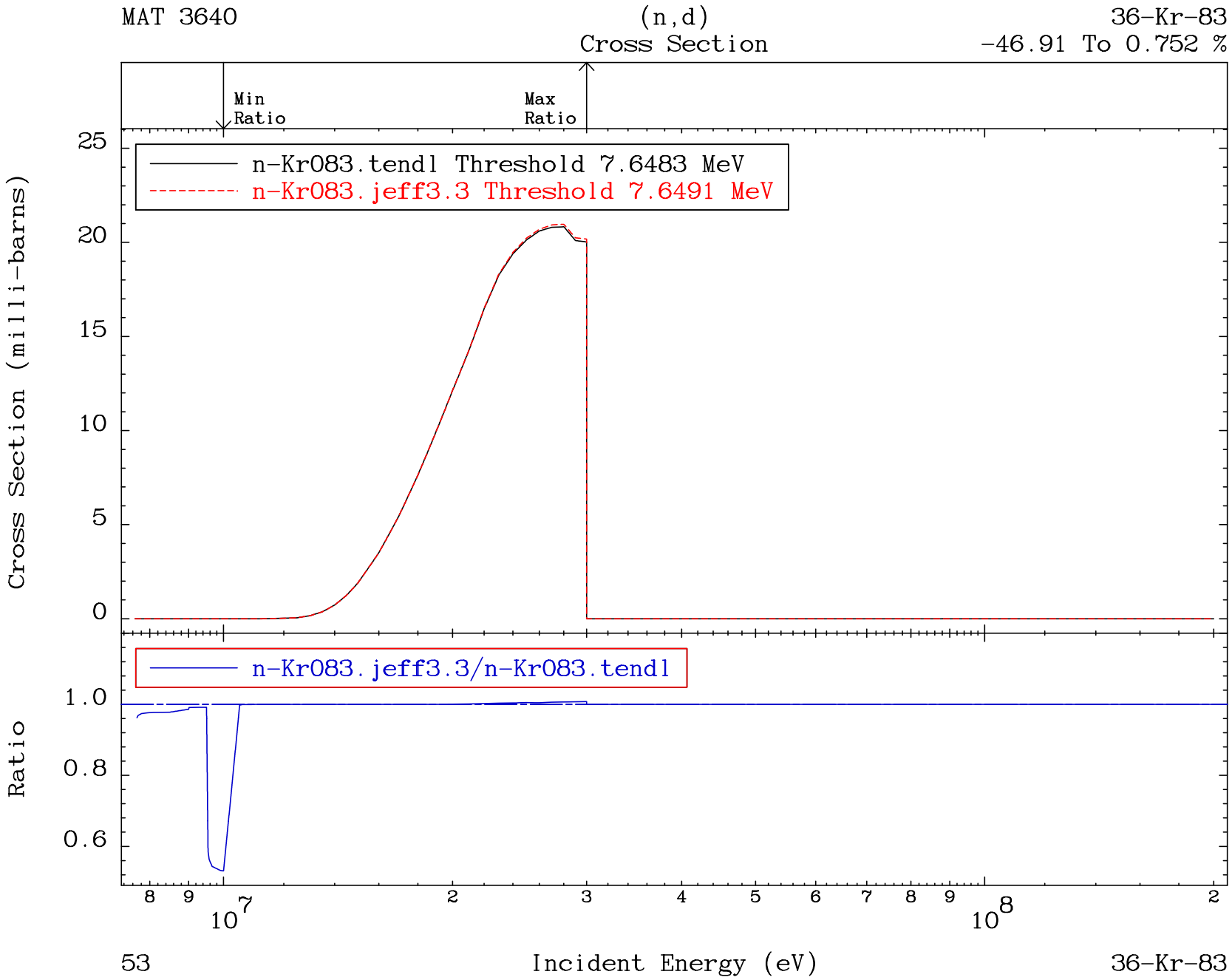

MAT 3640
MT= 79 (n,n') Level
Cross Section
36-Kr-83
-0.360 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 2.1714 MeV
n-Kr083.jeff3.3 Threshold 2.1714 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
48
36-Kr-83

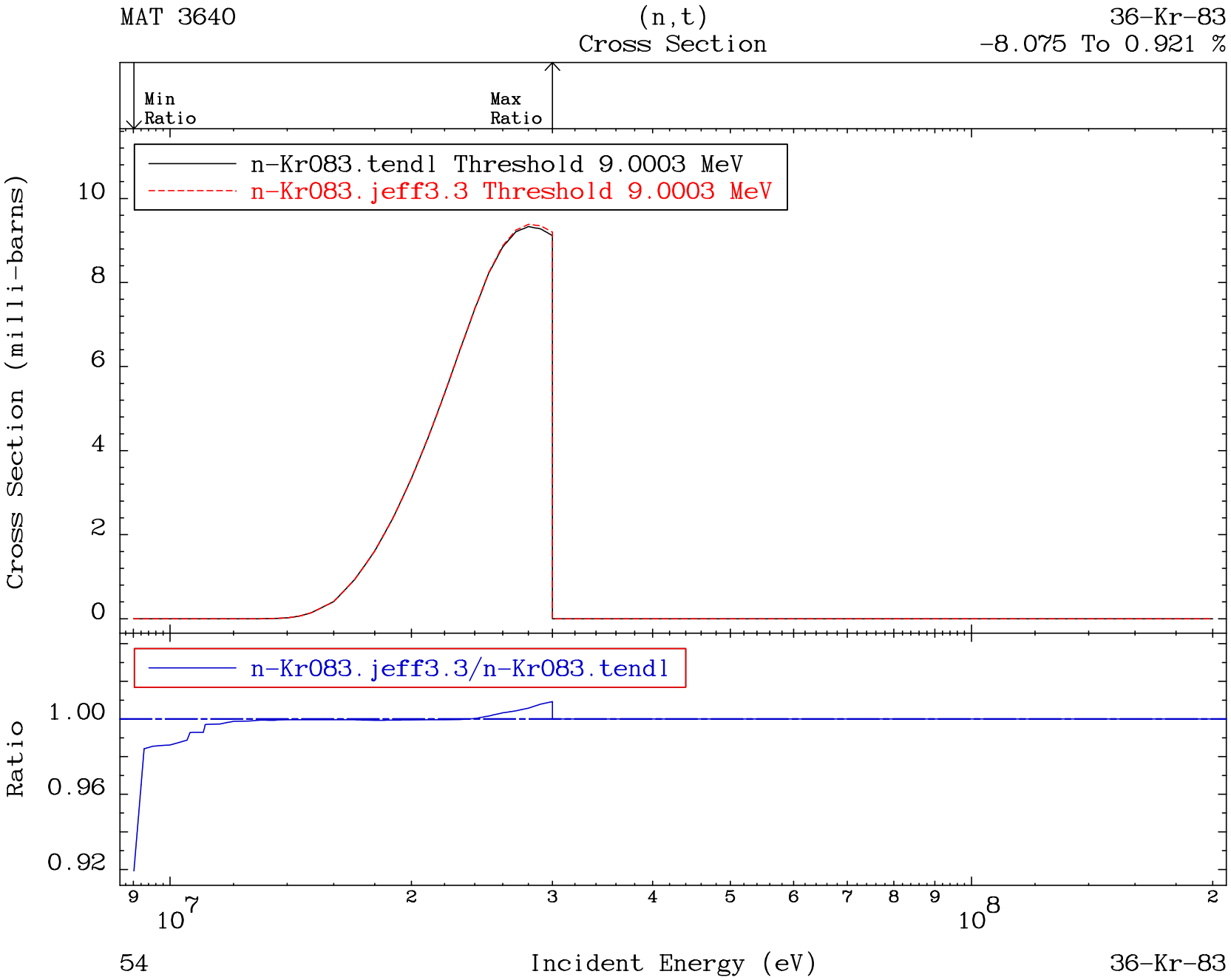

MAT 3640
MT= 80 (n,n') Level
Cross Section
36-Kr-83
-0.428 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 2.2146 MeV
n-Kr083.jeff3.3 Threshold 2.2146 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
36-Kr-83

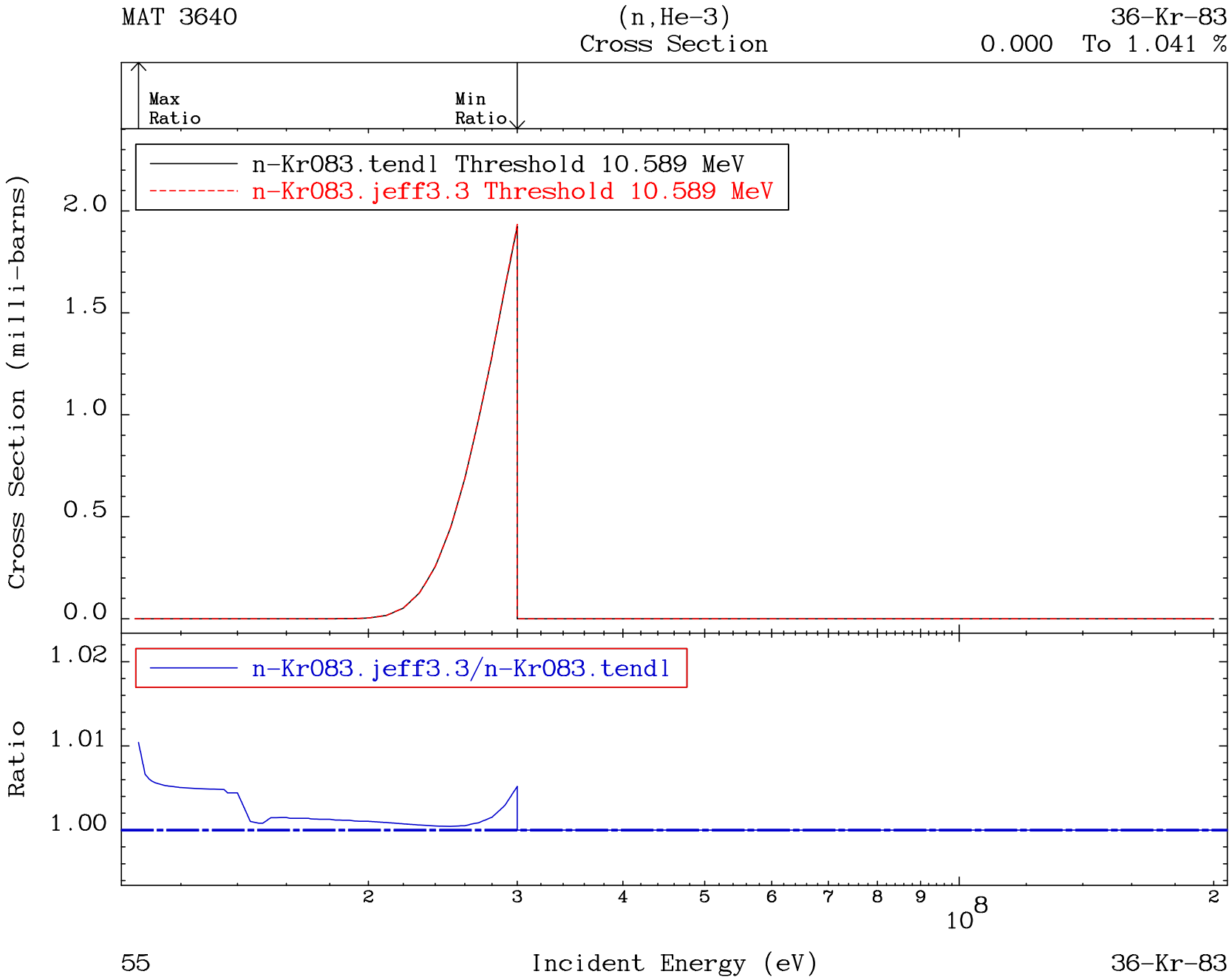

MAT 3640
(n,n') Continuum
Cross Section
36-Kr-83
-0.249 To 9.671 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 2.2146 MeV
n-Kr083.jeff3.3 Threshold 2.2146 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.10
1.05
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
36-Kr-83

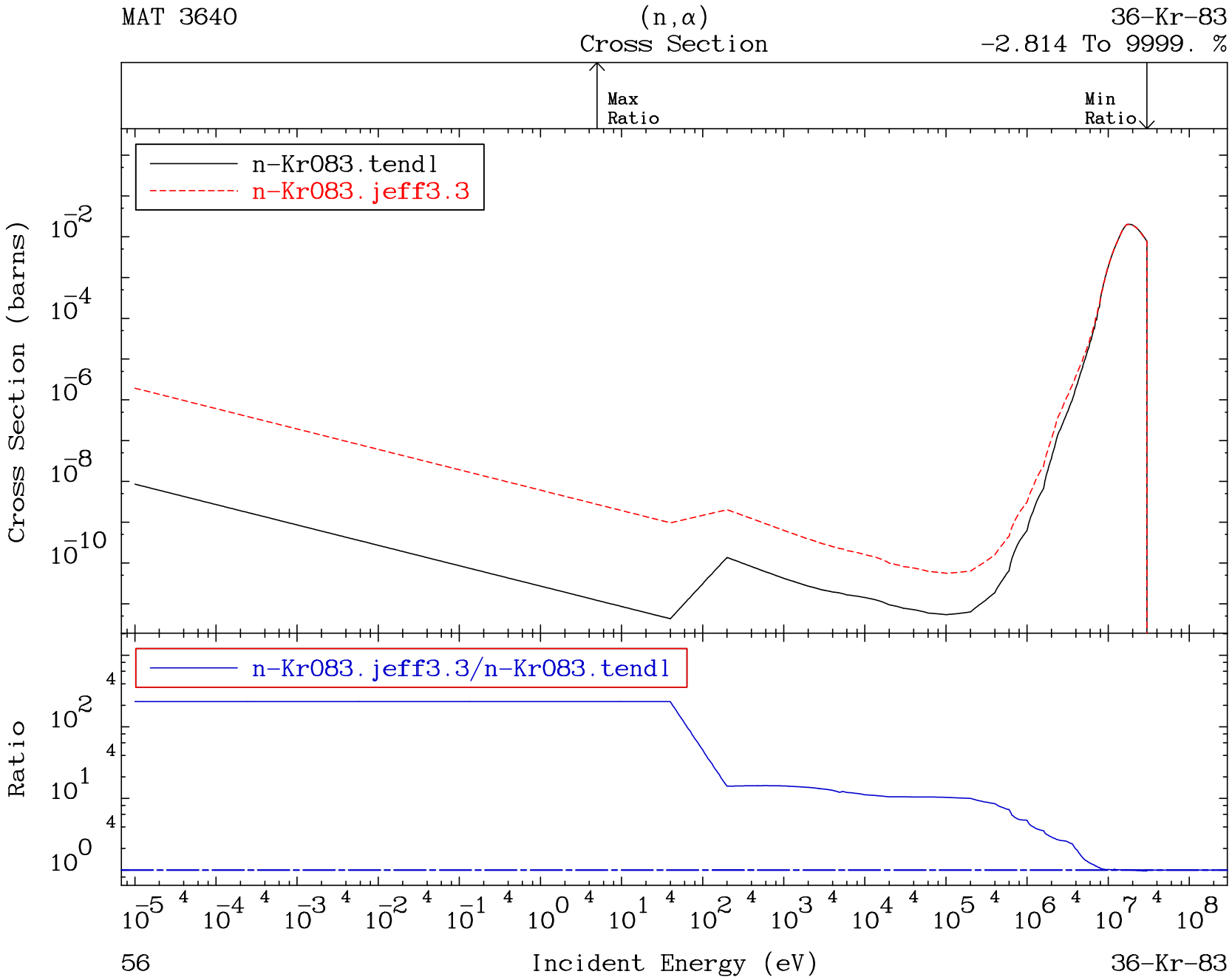

MAT 3640
(n,γ)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
51
36-Kr-83

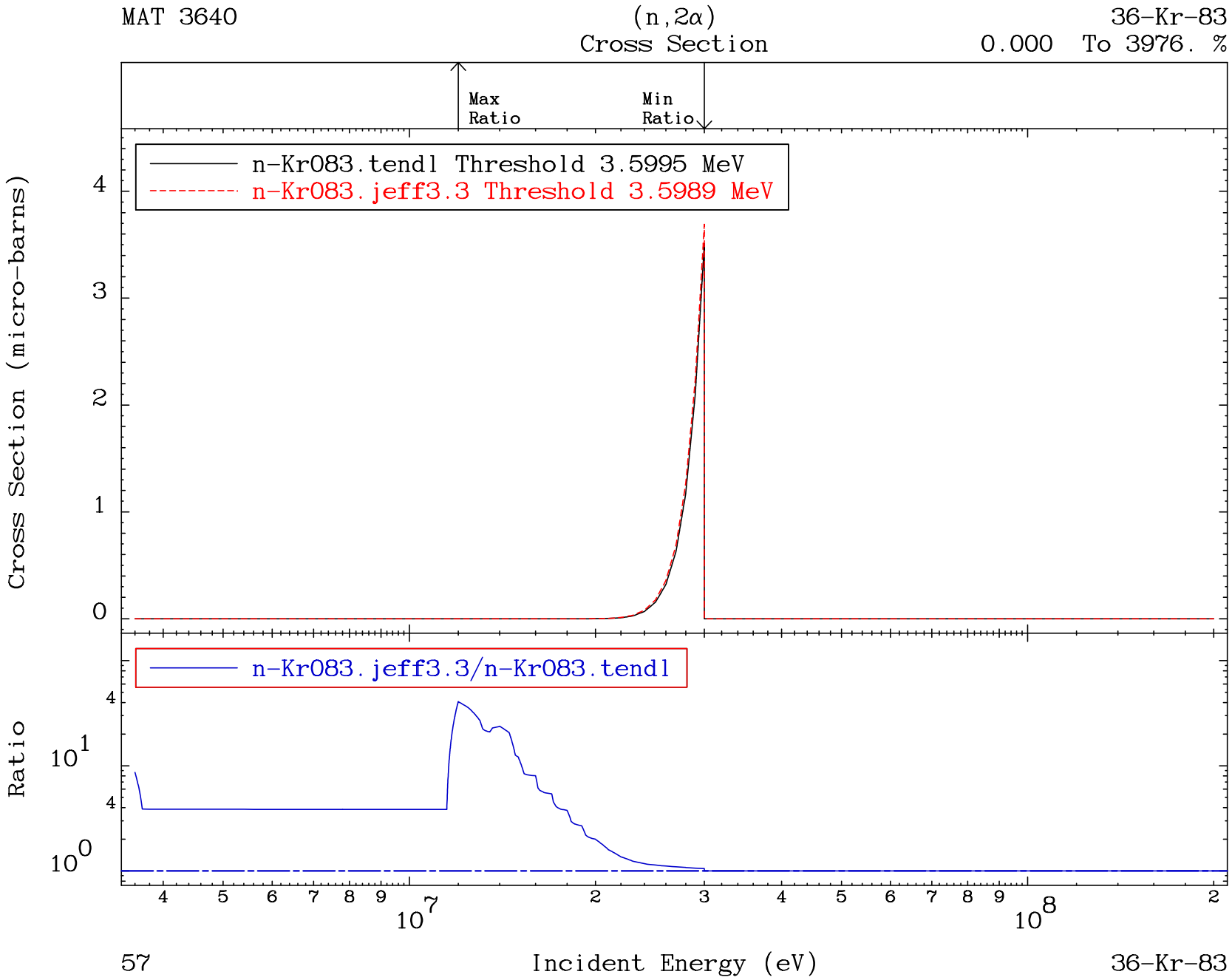

MAT 3640
(n,p)
Cross Section
36-Kr-83
-1.127 To 8.419 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 196.94 keV
n-Kr083.jeff3.3 Threshold 196.64 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.10
1.05
1.00
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
52
Incident Energy (eV)
36-Kr-83

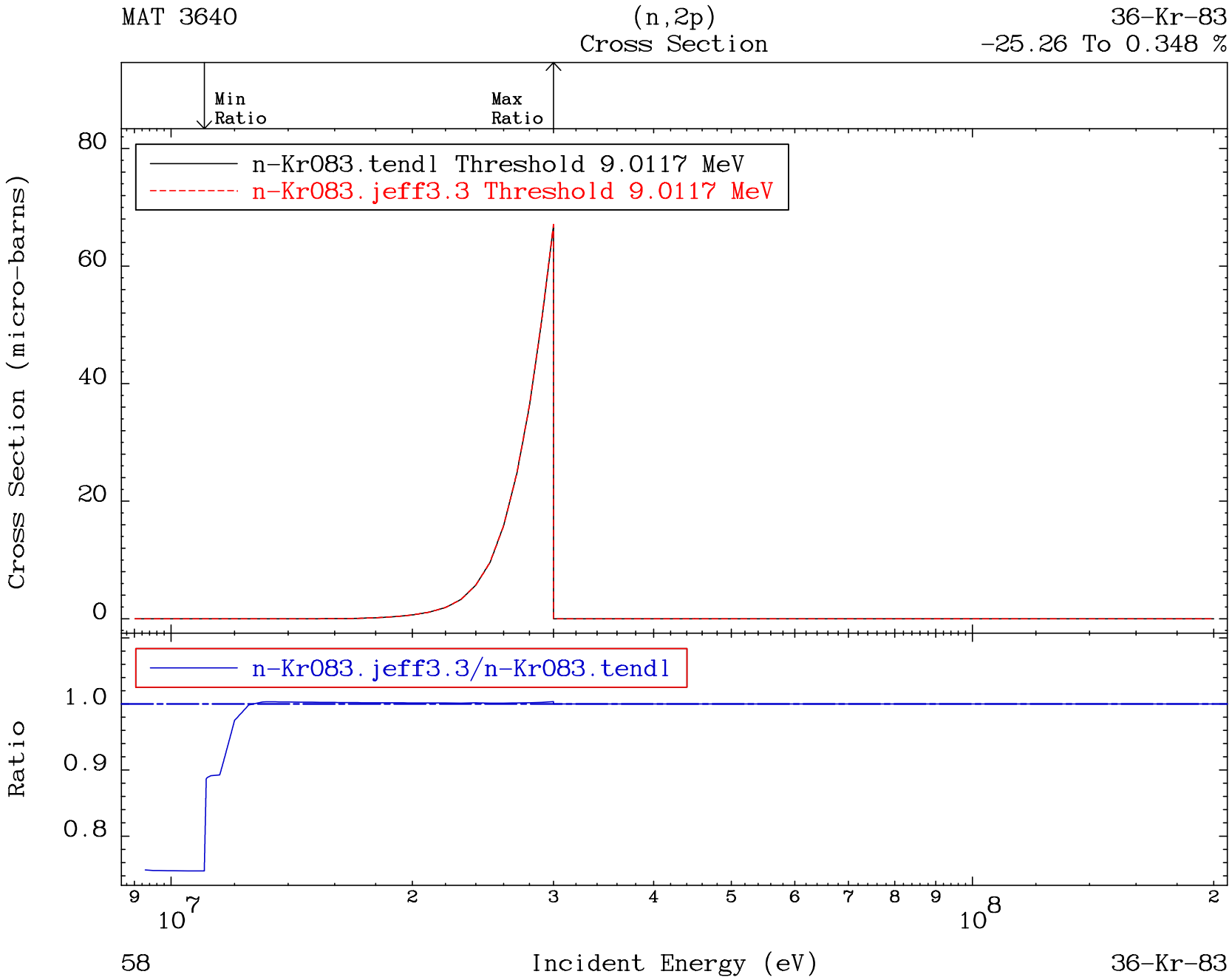

MAT 3640
(n,d)
Cross Section
36-Kr-83
-46.91 To 0.752 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 7.6483 MeV
n-Kr083.jeff3.3 Threshold 7.6491 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.8
0.6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
36-Kr-83

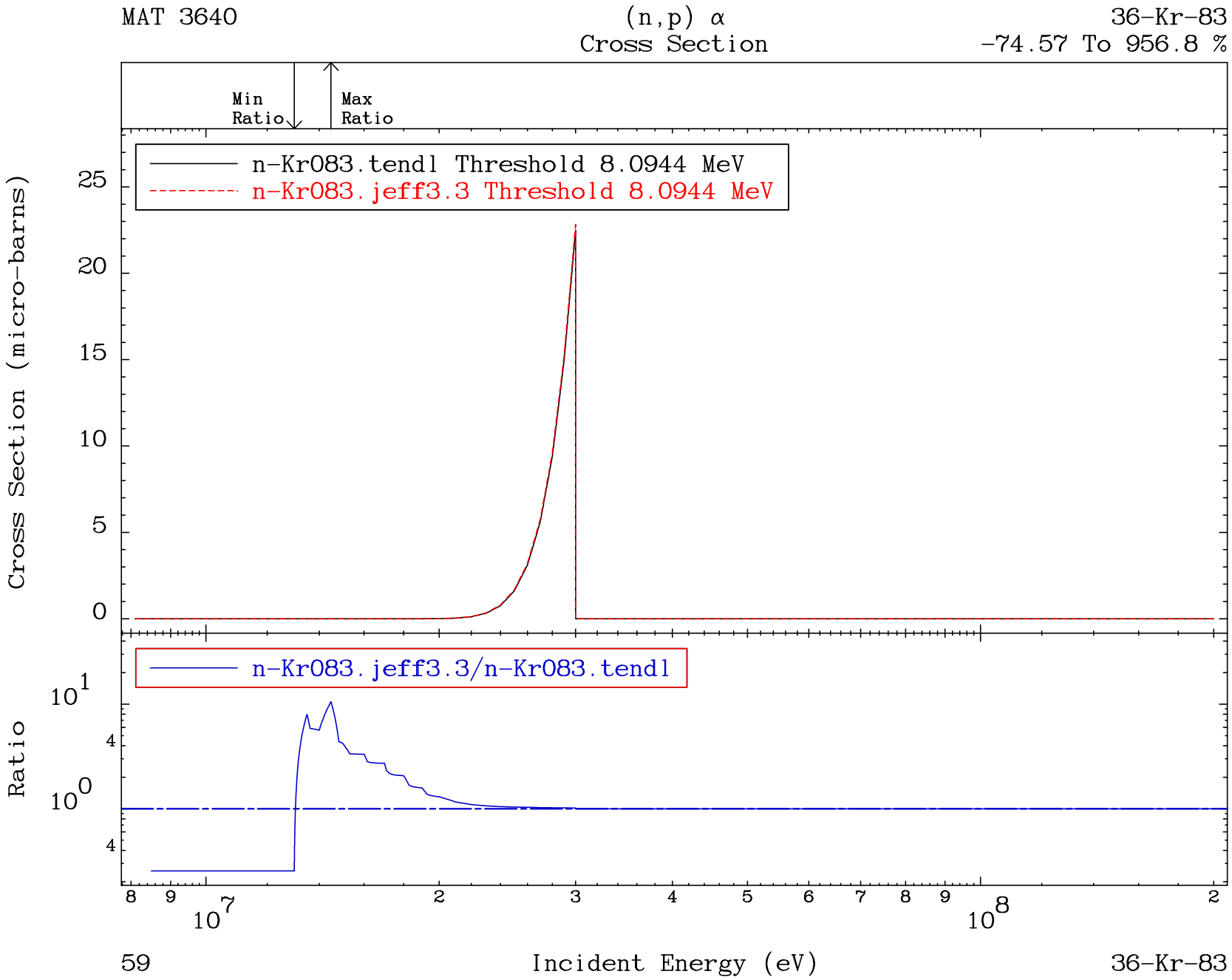

MAT 3640
(n,t)
Cross Section
36-Kr-83
-8.075 To 0.921 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.0003 MeV
n-Kr083.jeff3.3 Threshold 9.0003 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
0.92
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
36-Kr-83

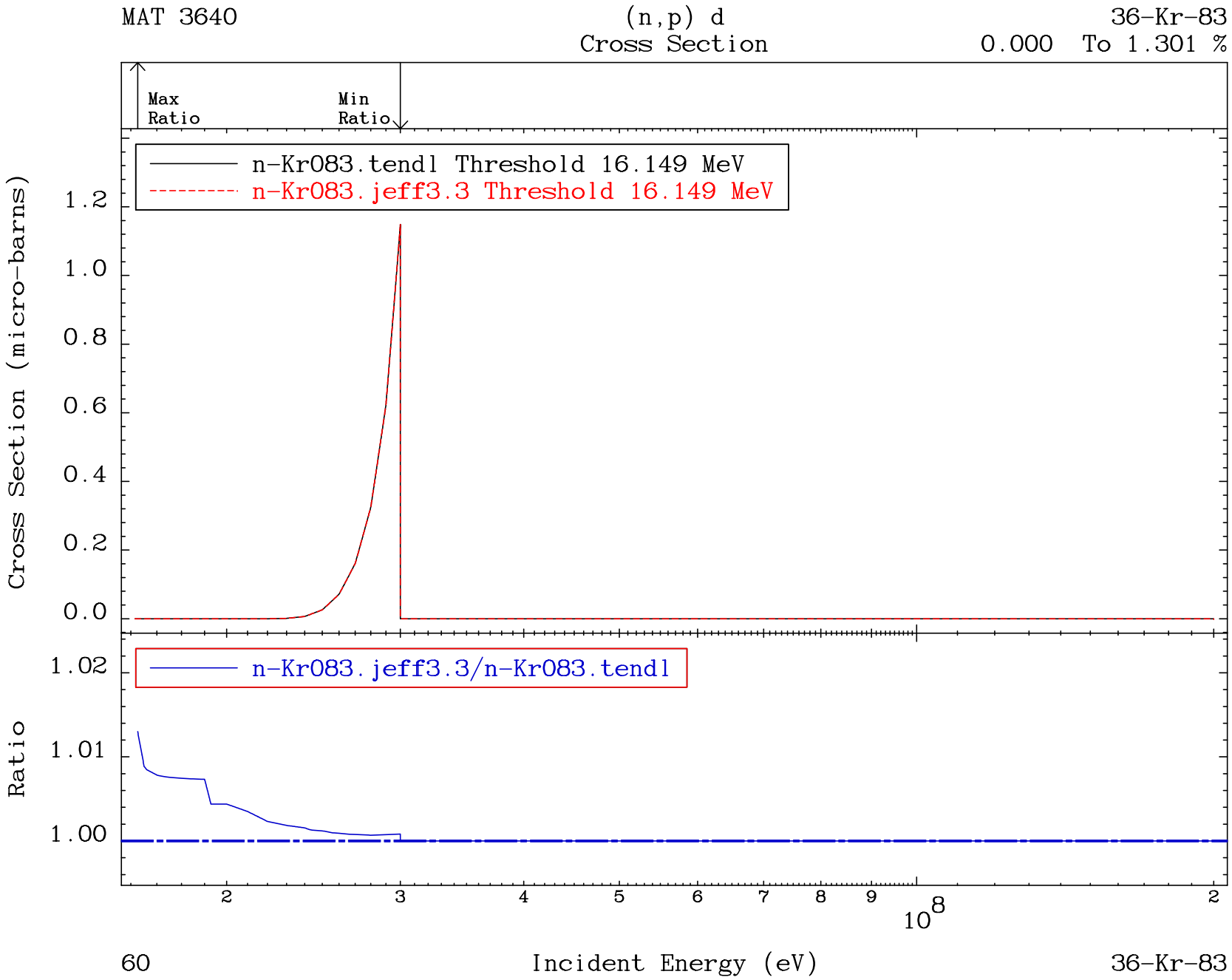

MAT 3640
(n,He-3)
Cross Section
36-Kr-83
0.000 To 1.041 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 10.589 MeV
n-Kr083.jeff3.3 Threshold 10.589 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
36-Kr-83

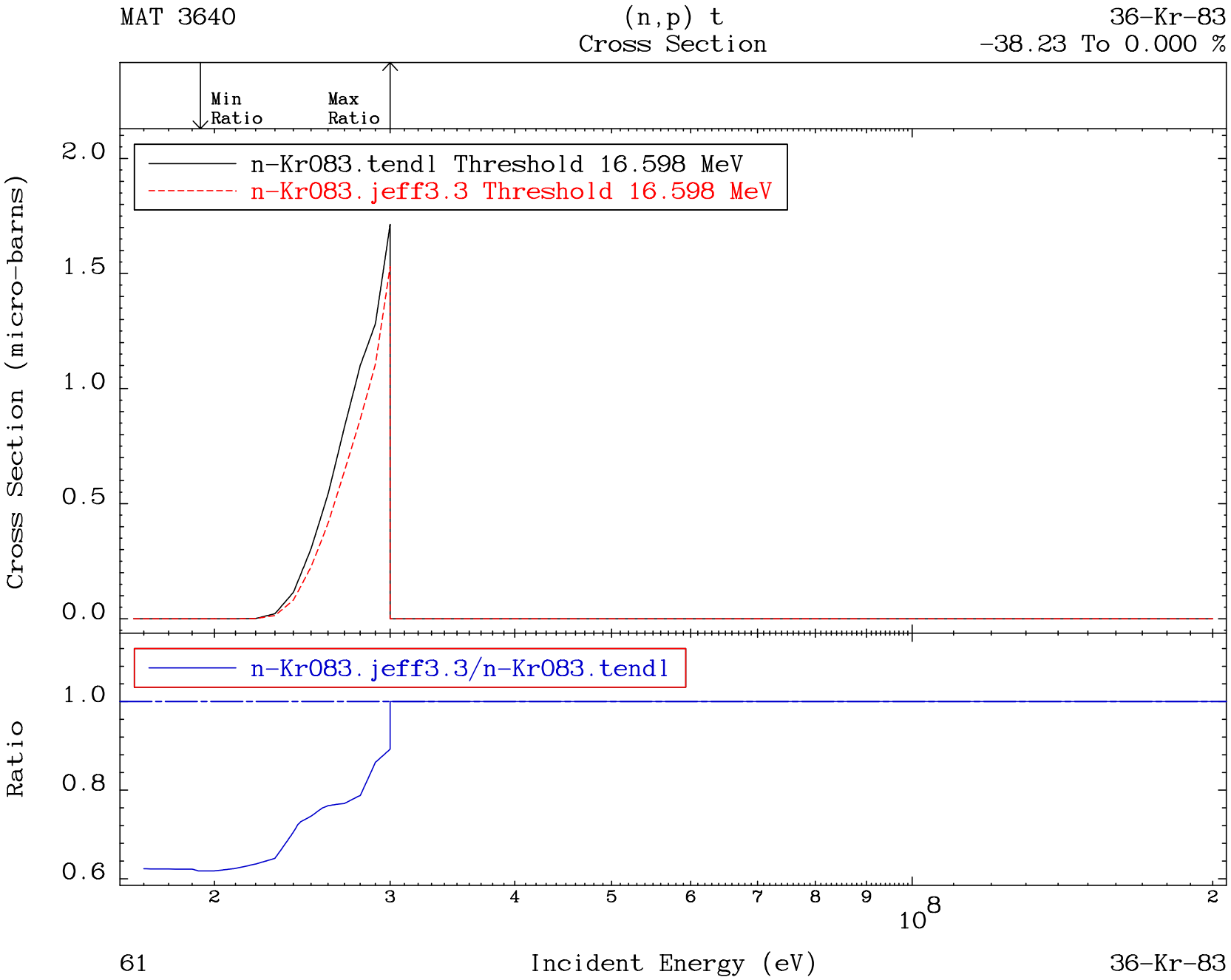

MAT 3640
(n,α)
Cross Section
36-Kr-83
-2.814 To 9999. %
Max Ratio
Min Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
56
36-Kr-83

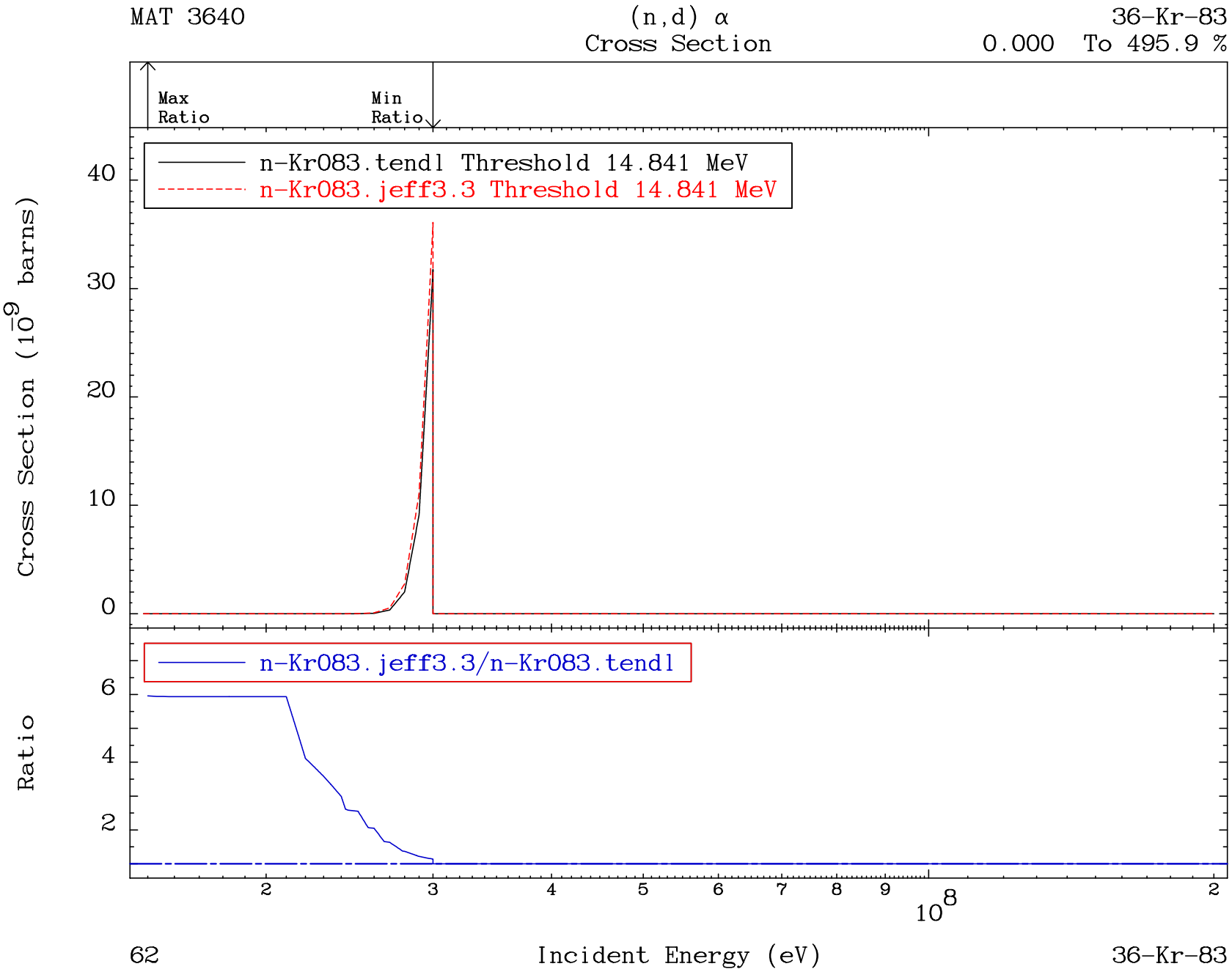

MAT 3640
(n,2α)
Cross Section
36-Kr-83
0.000 To 3976. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 3.5995 MeV
n-Kr083.jeff3.3 Threshold 3.5989 MeV
Cross Section (micro-barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
57
36-Kr-83

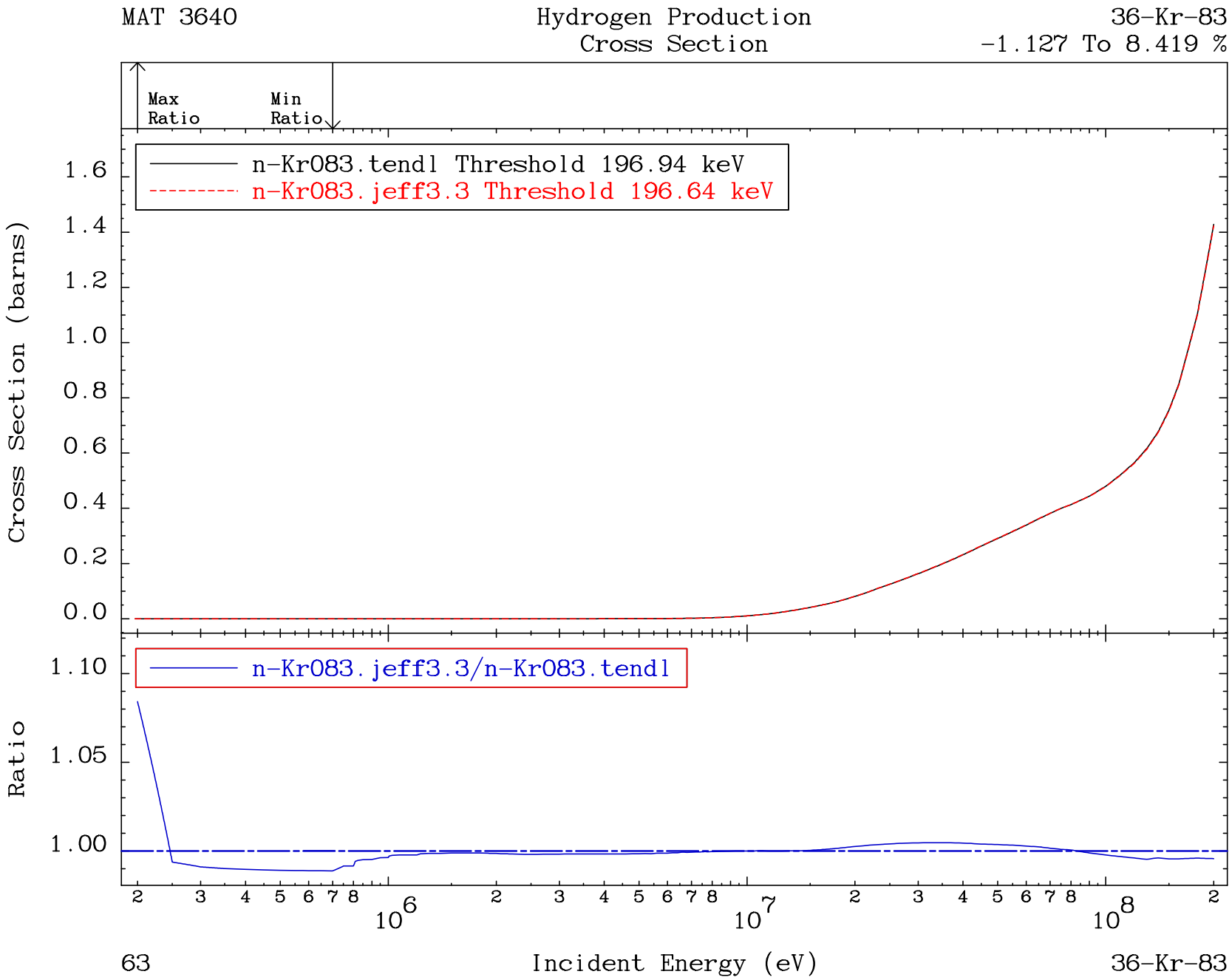

MAT 3640
(n,2p)
Cross Section
36-Kr-83
-25.26 To 0.348 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.0117 MeV
n-Kr083.jeff3.3 Threshold 9.0117 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.9
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
36-Kr-83

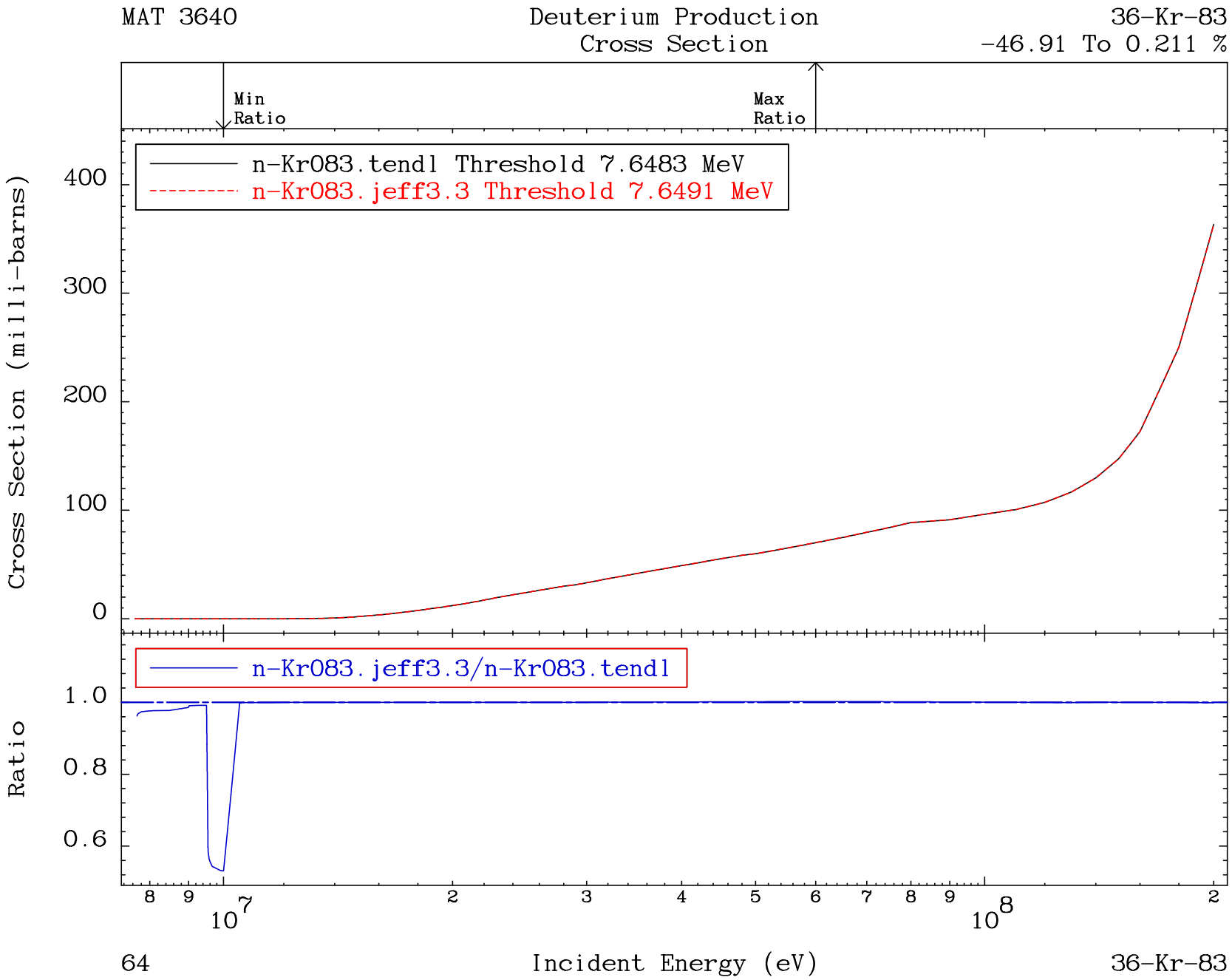

MAT 3640
(n,p) α
Cross Section
36-Kr-83
-74.57 To 956.8 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 8.0944 MeV
n-Kr083.jeff3.3 Threshold 8.0944 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
59
Incident Energy (eV)
36-Kr-83

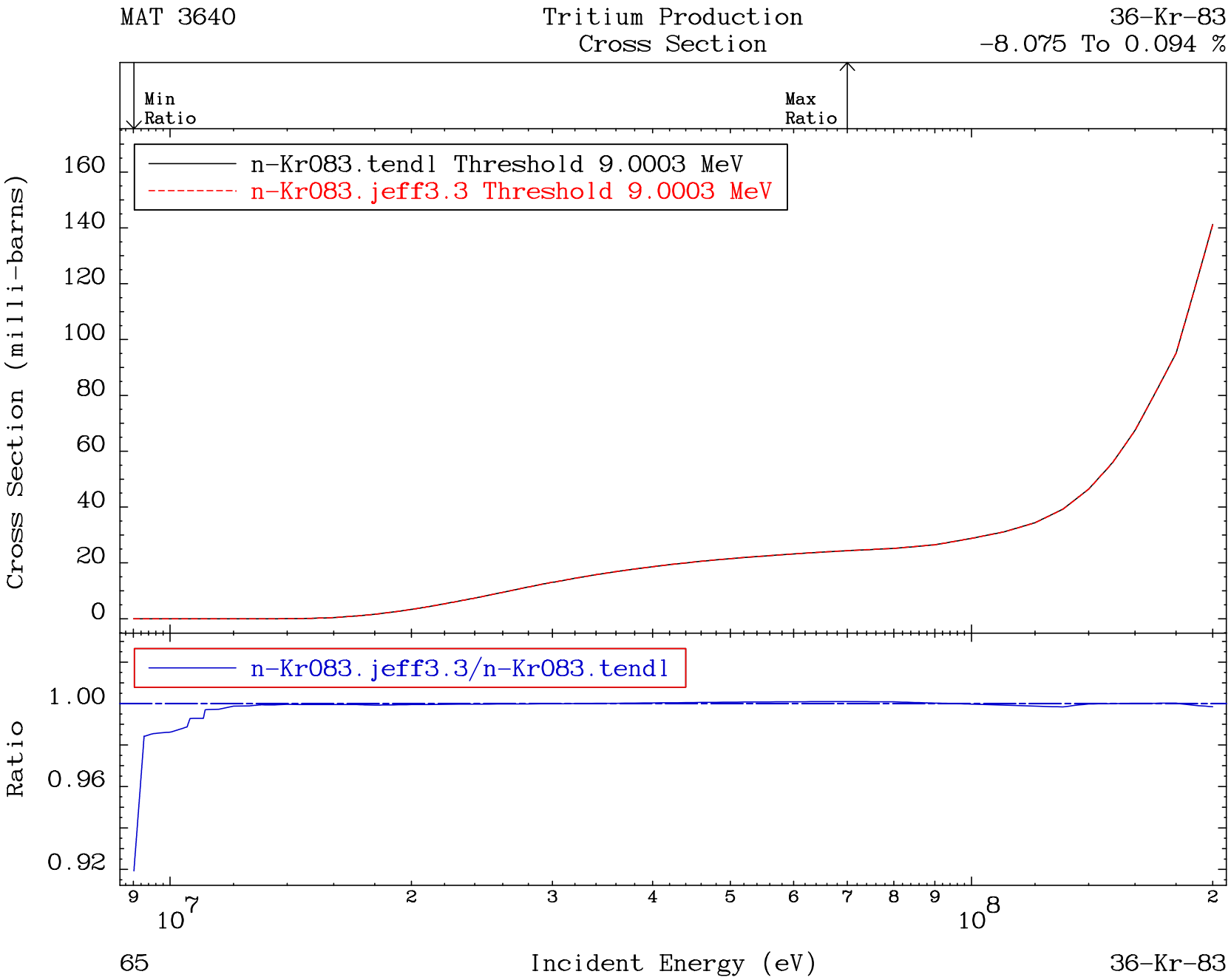

MAT 3640
(n,p) d
Cross Section
36-Kr-83
0.000 To 1.301 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 16.149 MeV
n-Kr083.jeff3.3 Threshold 16.149 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
36-Kr-83

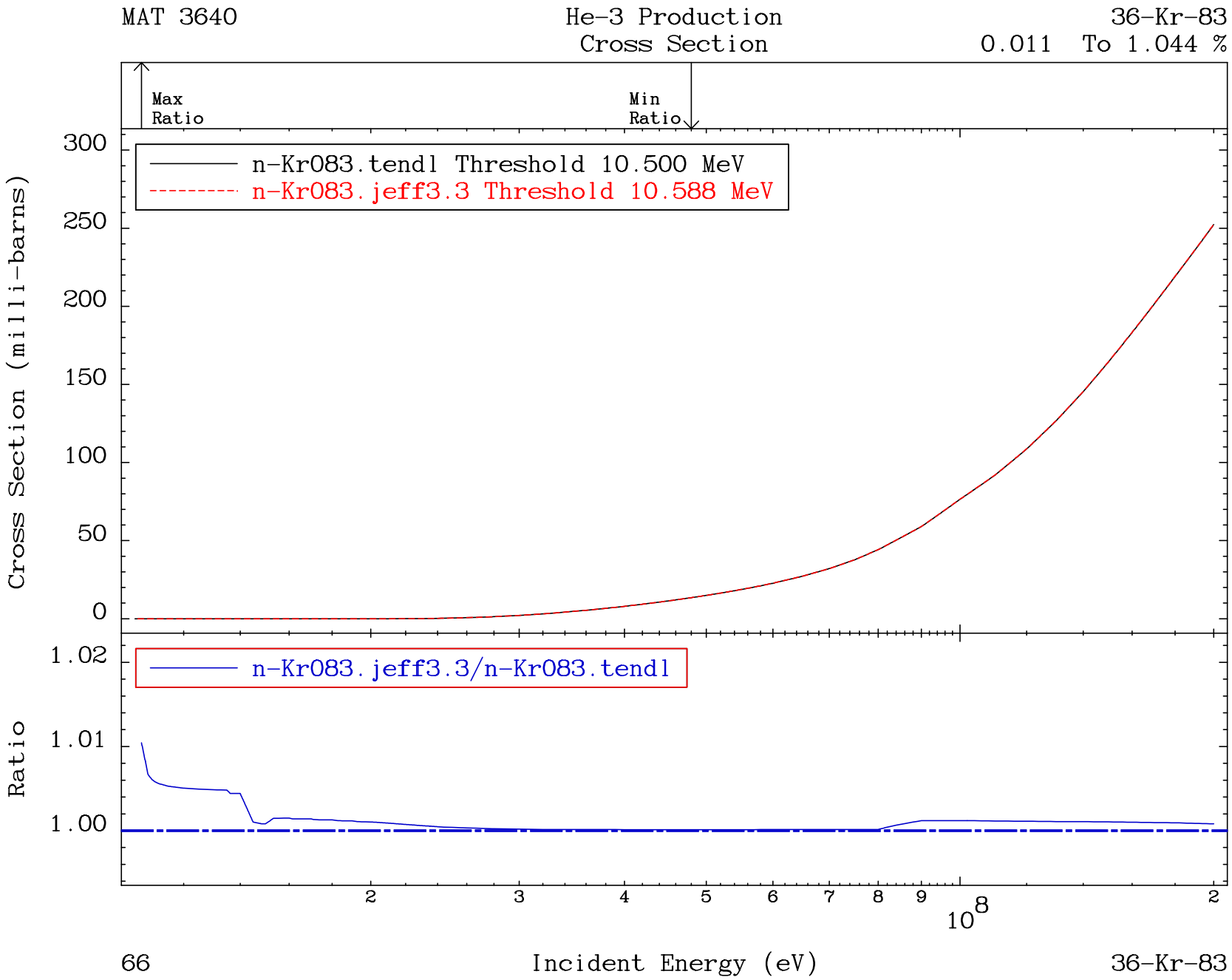

MAT 3640
(n,p) t
Cross Section
36-Kr-83
-38.23 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 16.598 MeV
n-Kr083.jeff3.3 Threshold 16.598 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
36-Kr-83

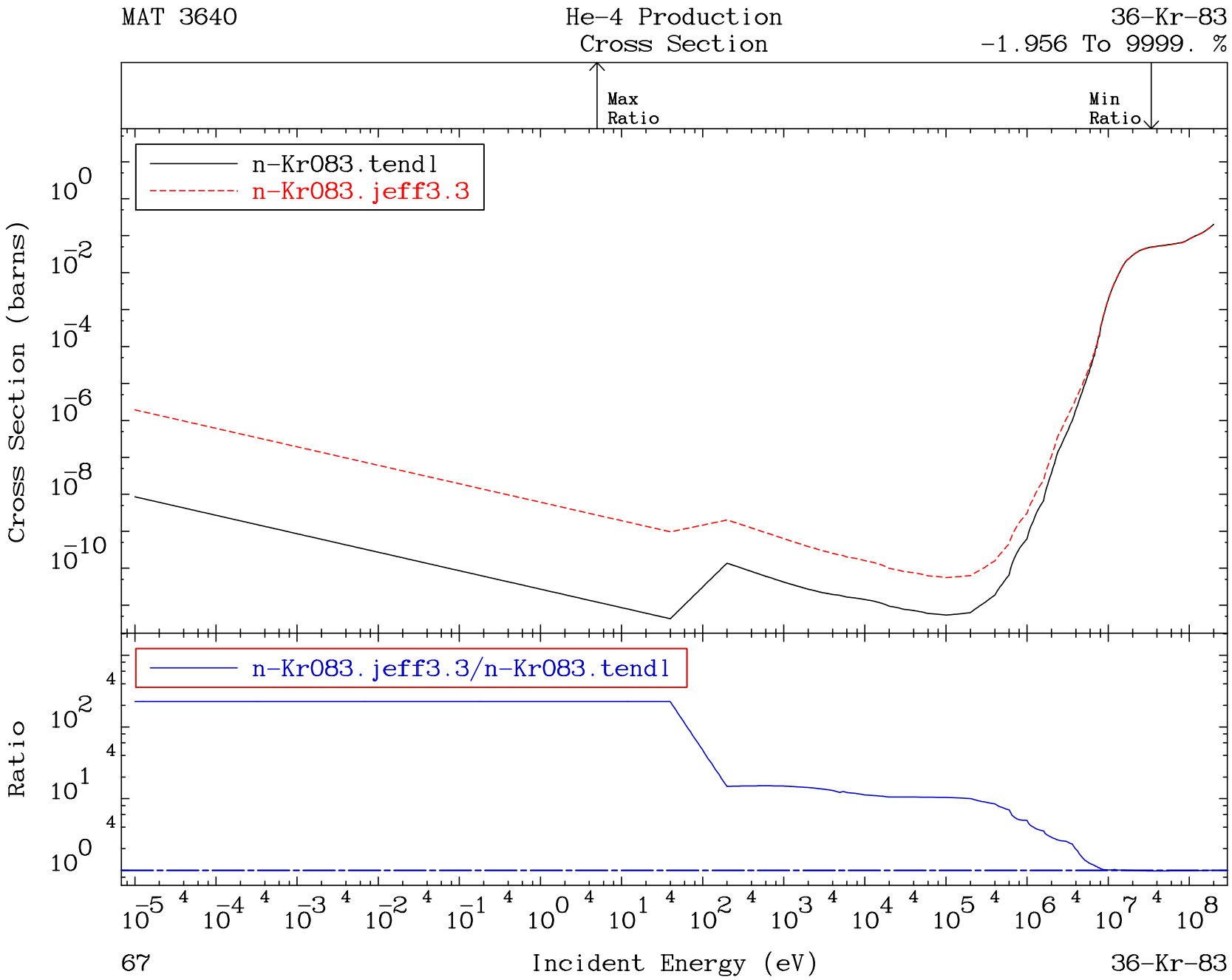

MAT 3640
(n,d) α
Cross Section
36-Kr-83
0.000 To 495.9 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 14.841 MeV
n-Kr083.jeff3.3 Threshold 14.841 MeV
Cross Section (10^-9 barns)
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
6
4
2
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
36-Kr-83

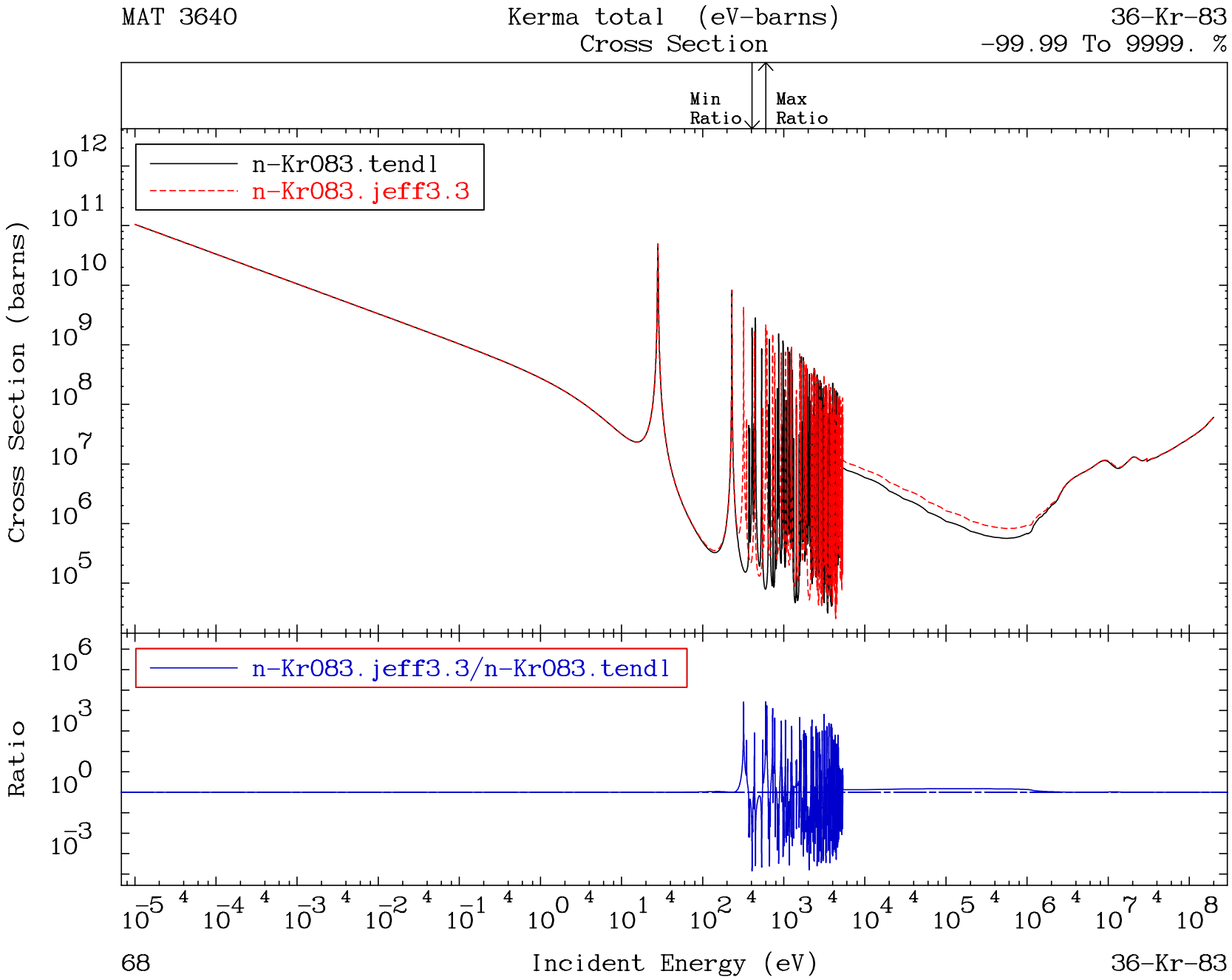

MAT 3640
Hydrogen Production
Cross Section
36-Kr-83
-1.127 To 8.419 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 196.94 keV
n-Kr083.jeff3.3 Threshold 196.64 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.10
1.05
1.00
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
63
Incident Energy (eV)
36-Kr-83

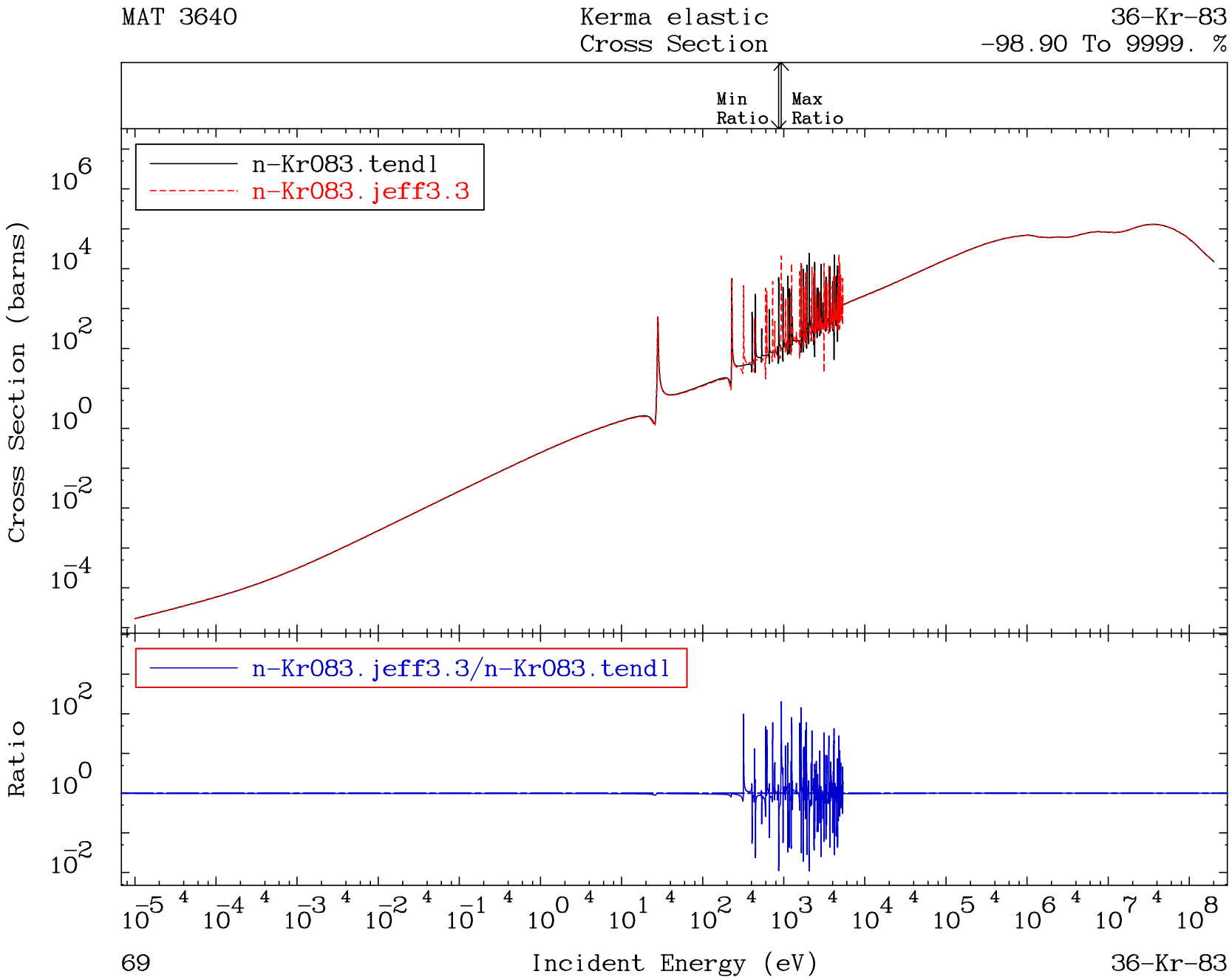

MAT 3640
Deuterium Production
Cross Section
36-Kr-83
-46.91 To 0.211 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 7.6483 MeV
n-Kr083.jeff3.3 Threshold 7.6491 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.8
0.6
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
64
Incident Energy (eV)
36-Kr-83

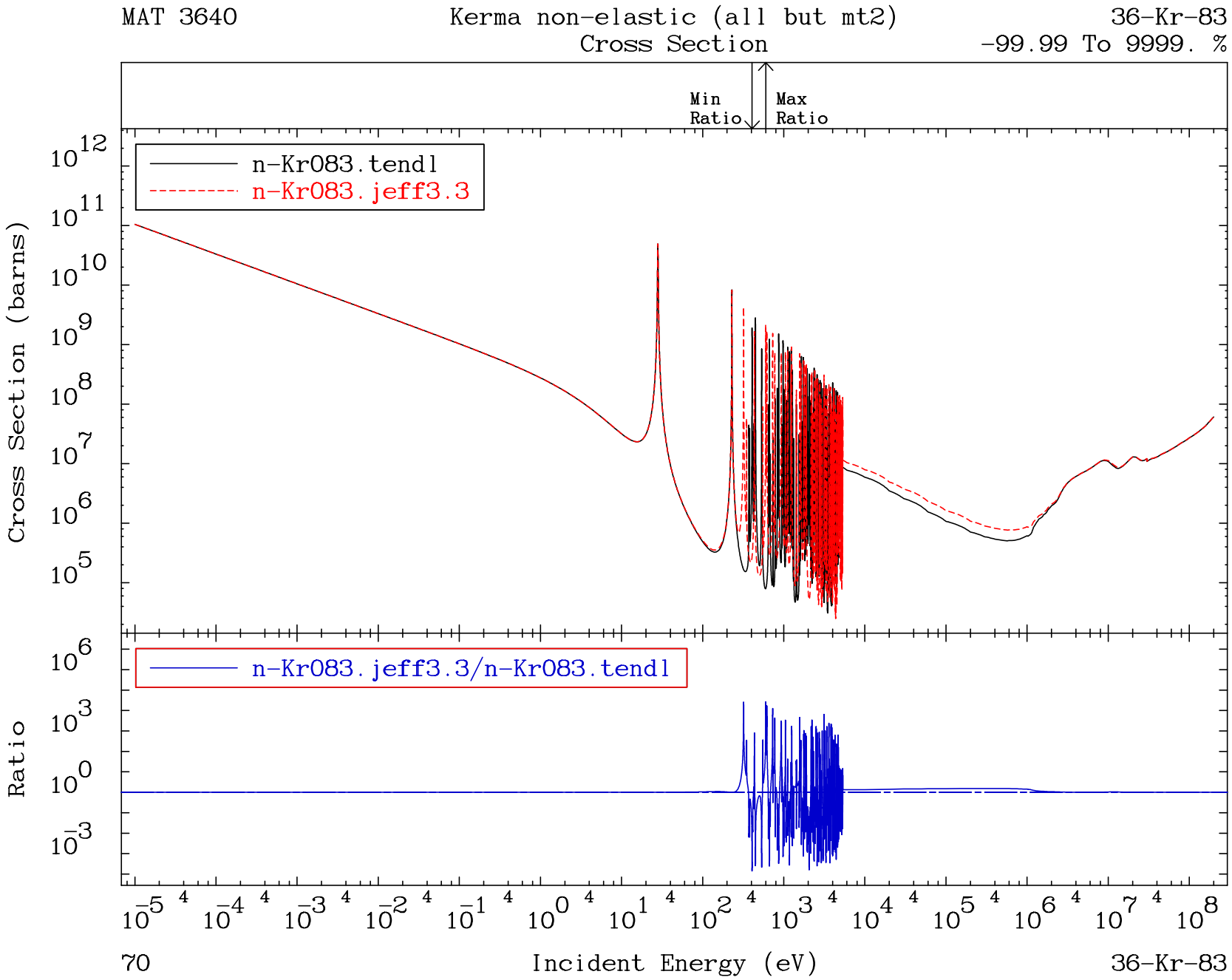

MAT 3640
Tritium Production
Cross Section
36-Kr-83
-8.075 To 0.094 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.0003 MeV
n-Kr083.jeff3.3 Threshold 9.0003 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
0.92
9
10^7
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
36-Kr-83

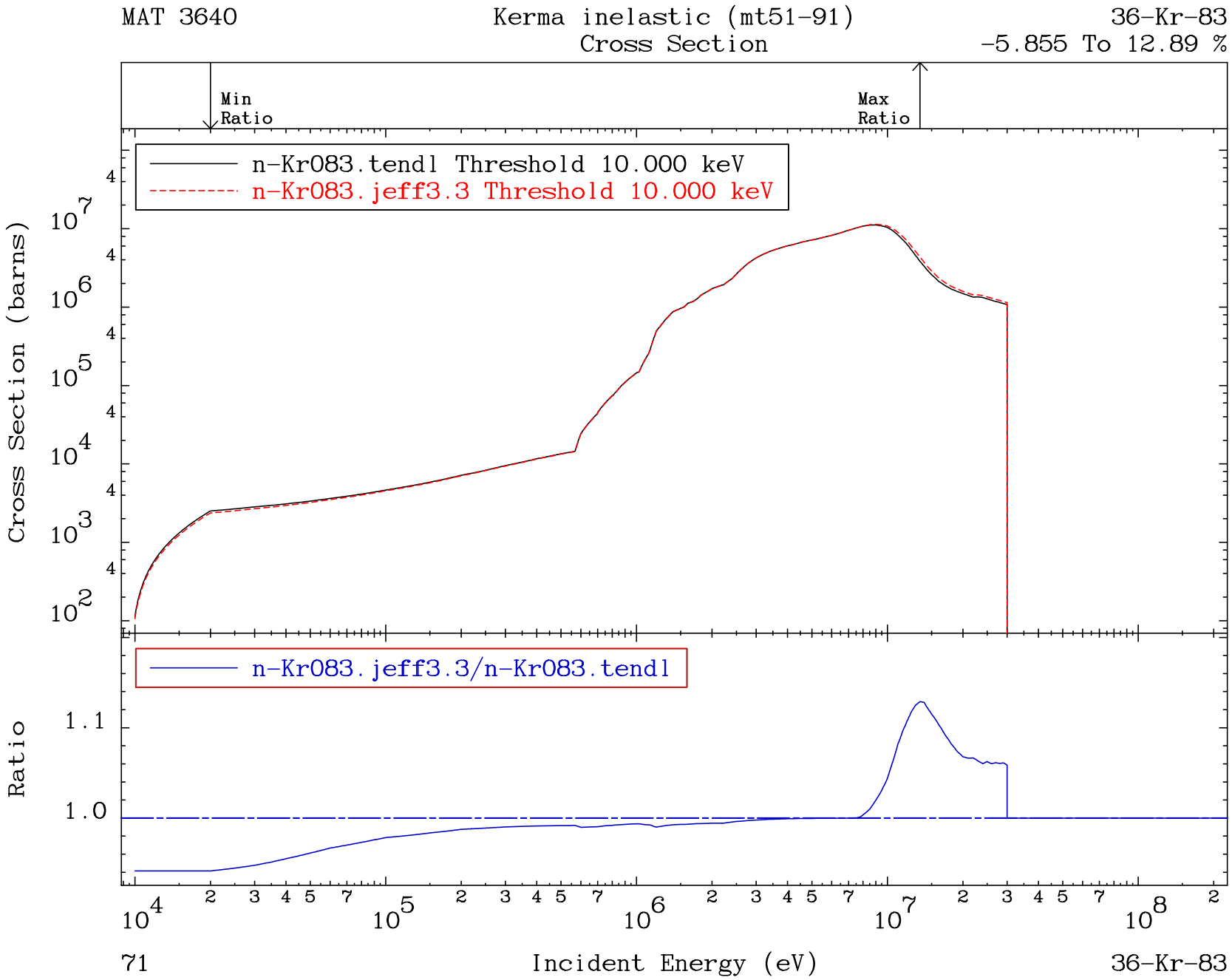

MAT 3640
He-3 Production
Cross Section
36-Kr-83
0.011 To 1.044 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 10.500 MeV
n-Kr083.jeff3.3 Threshold 10.588 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
66
Incident Energy (eV)
36-Kr-83

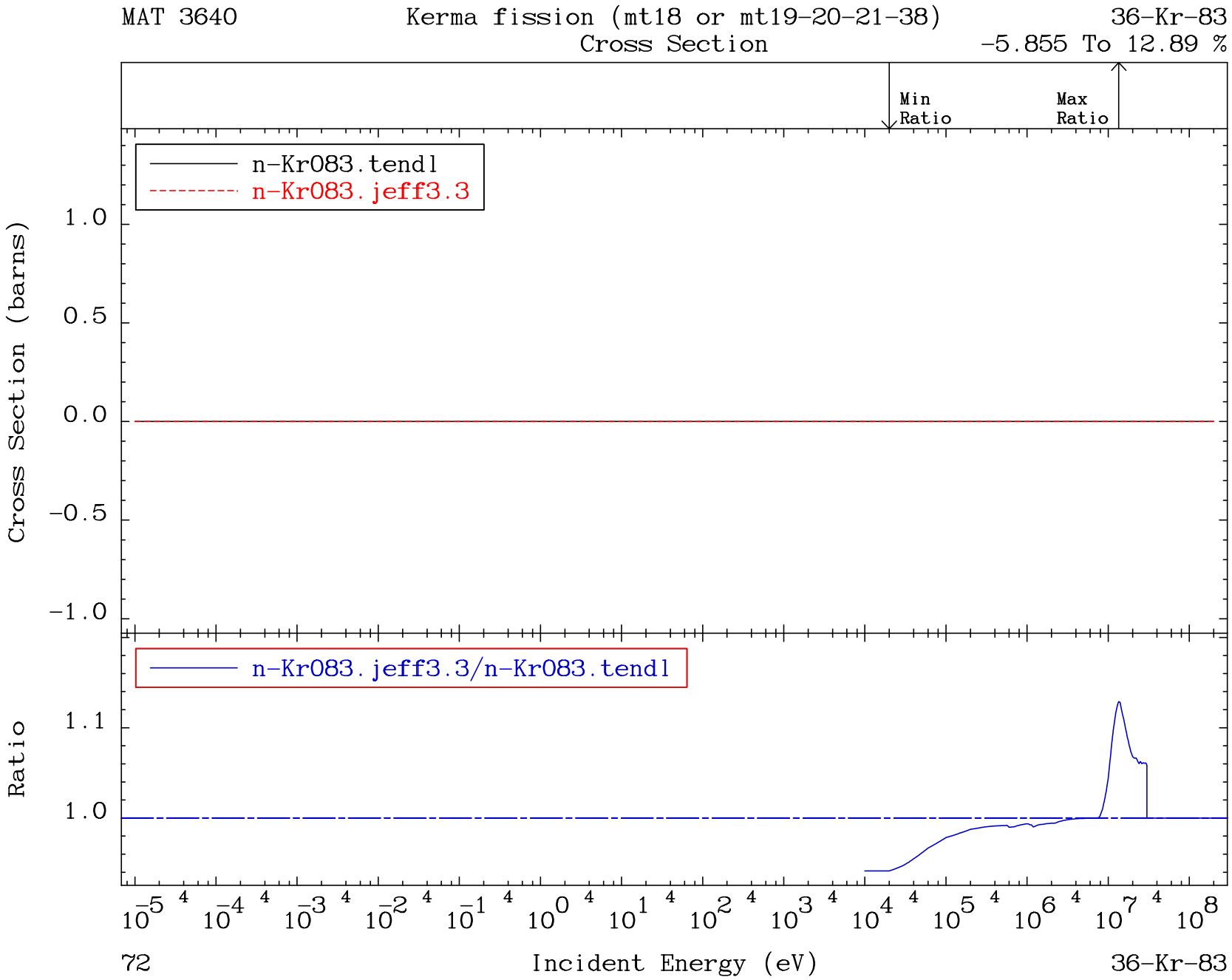

MAT 3640
He-4 Production
Cross Section
36-Kr-83
-1.956 To 9999. %
Max Ratio
Min Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
67
36-Kr-83

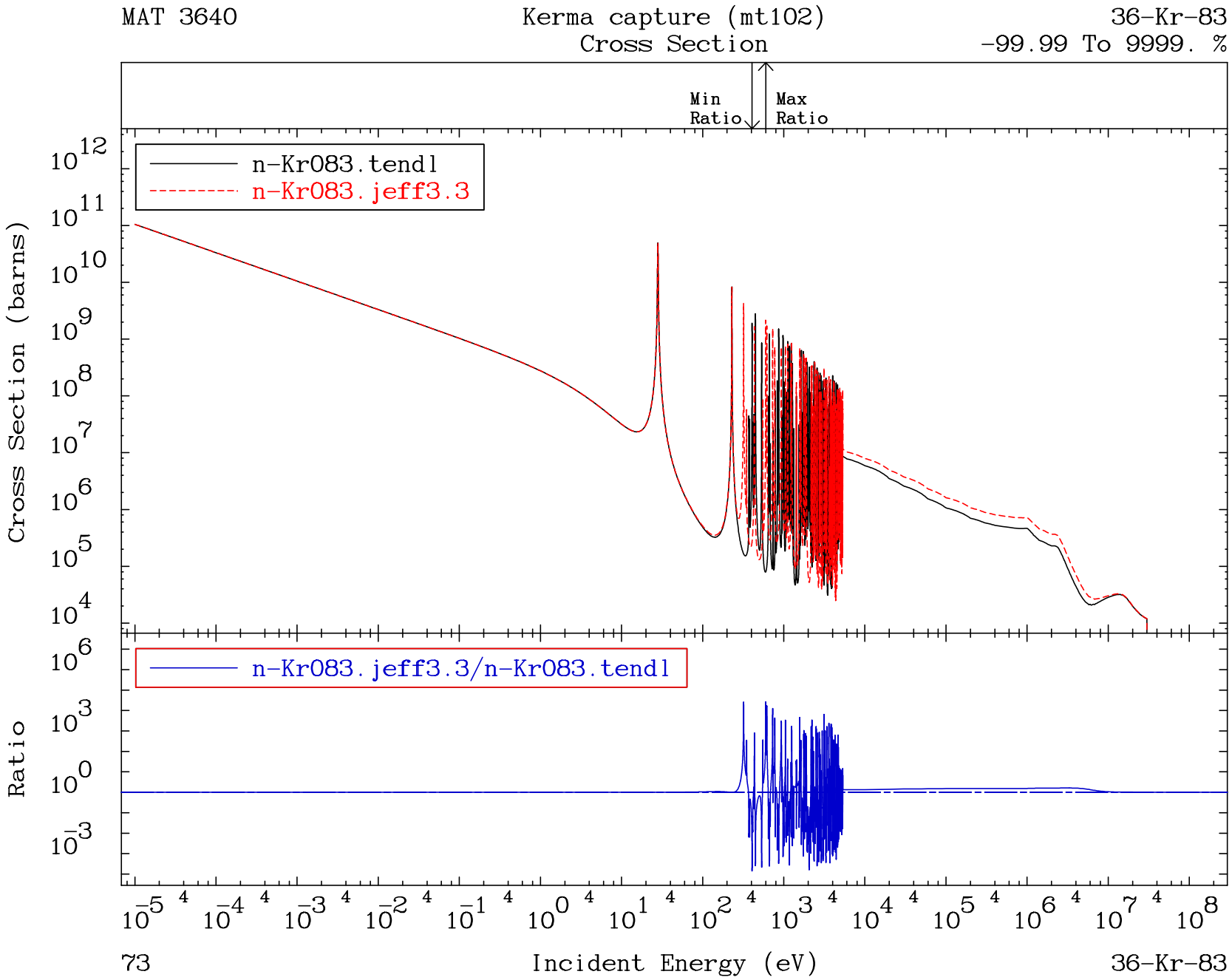

MAT 3640
Kerma total (eV-barns)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
68
36-Kr-83

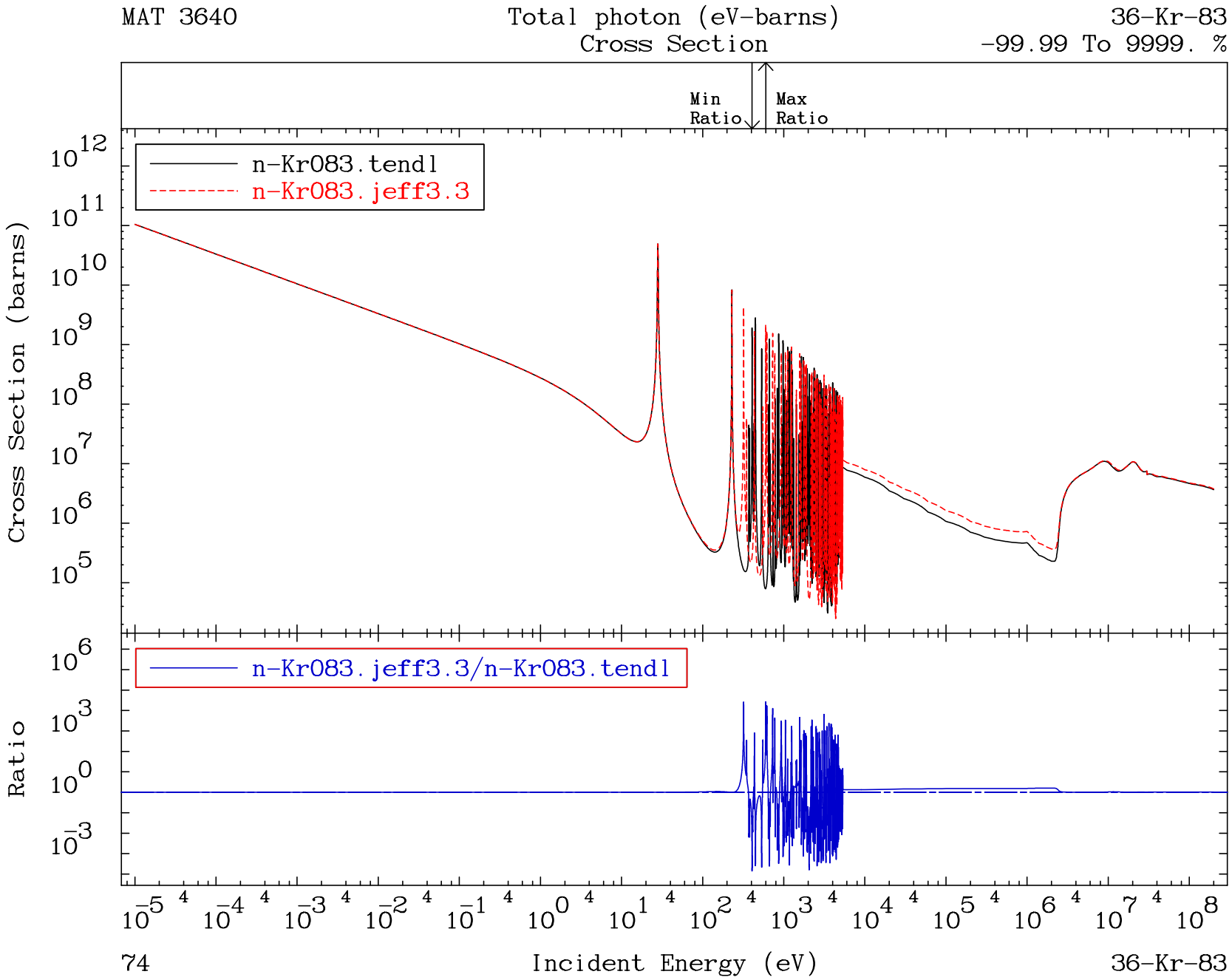

MAT 3640
Kerma elastic
Cross Section
36-Kr-83
-98.90 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
69
36-Kr-83

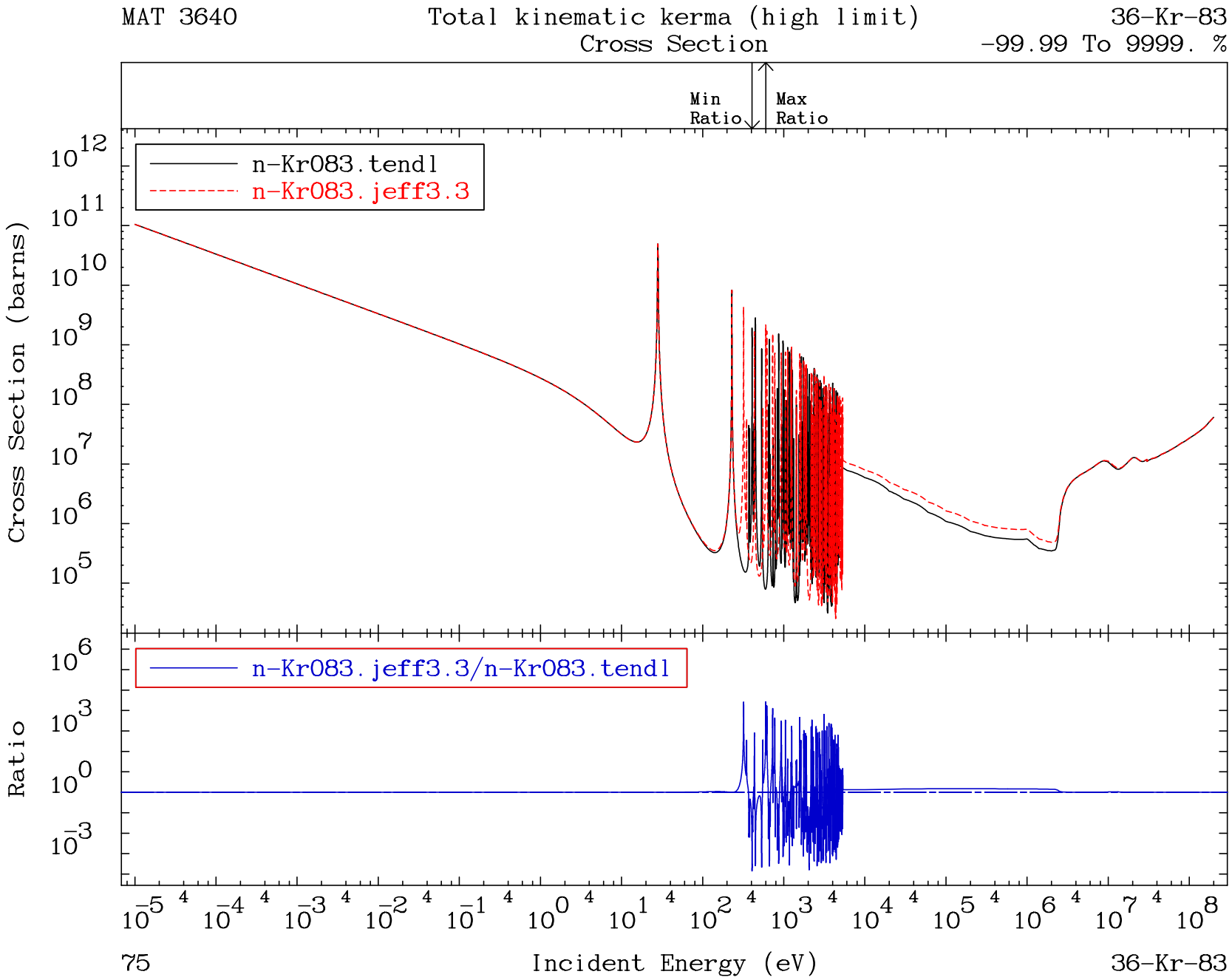

MAT 3640
Kerma non-elastic (all but mt2)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
70
36-Kr-83

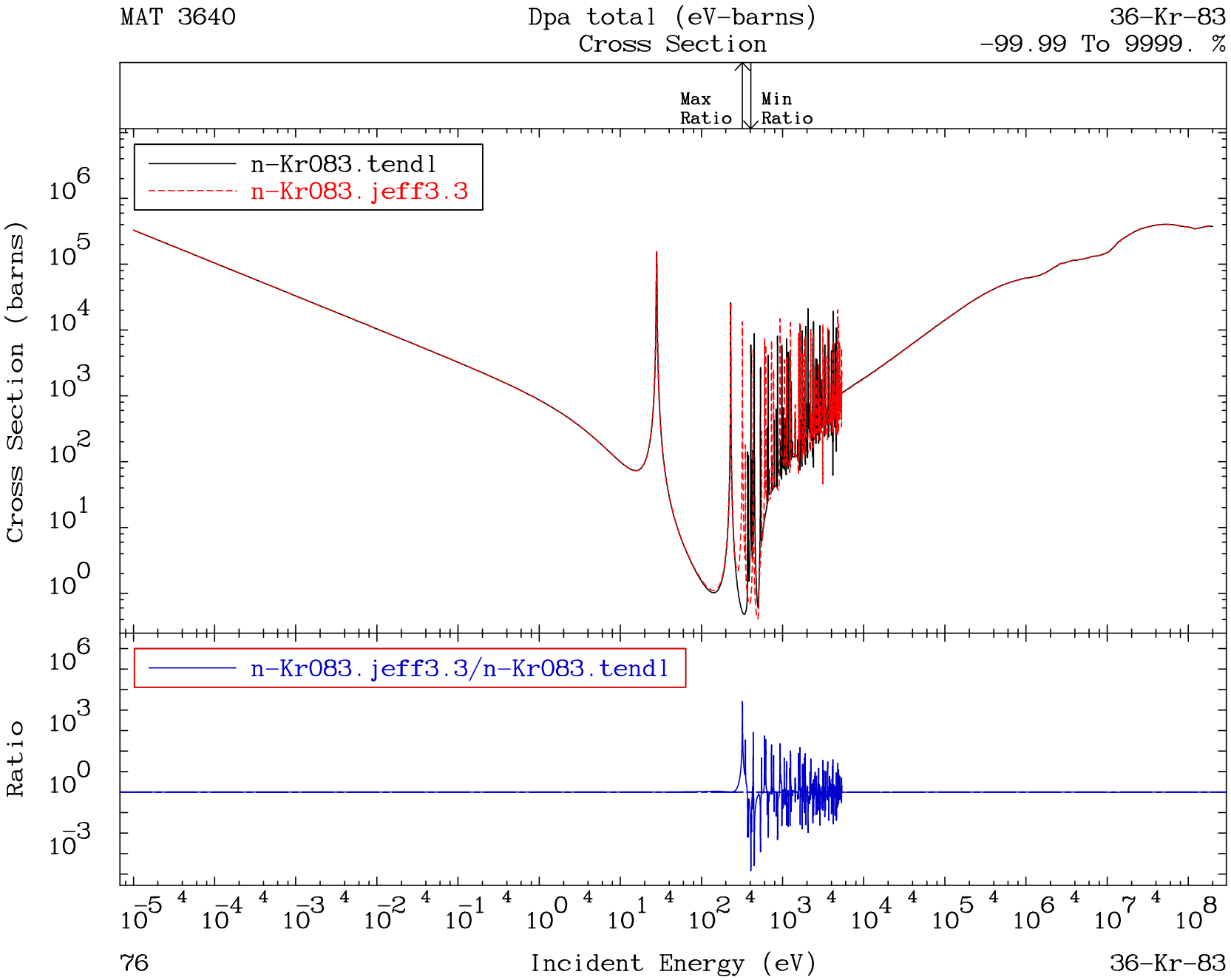

MAT 3640
Kerma inelastic (mt51-91)
Cross Section
36-Kr-83
-5.855 To 12.89 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 10.000 keV
n-Kr083.jeff3.3 Threshold 10.000 keV
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
71
36-Kr-83

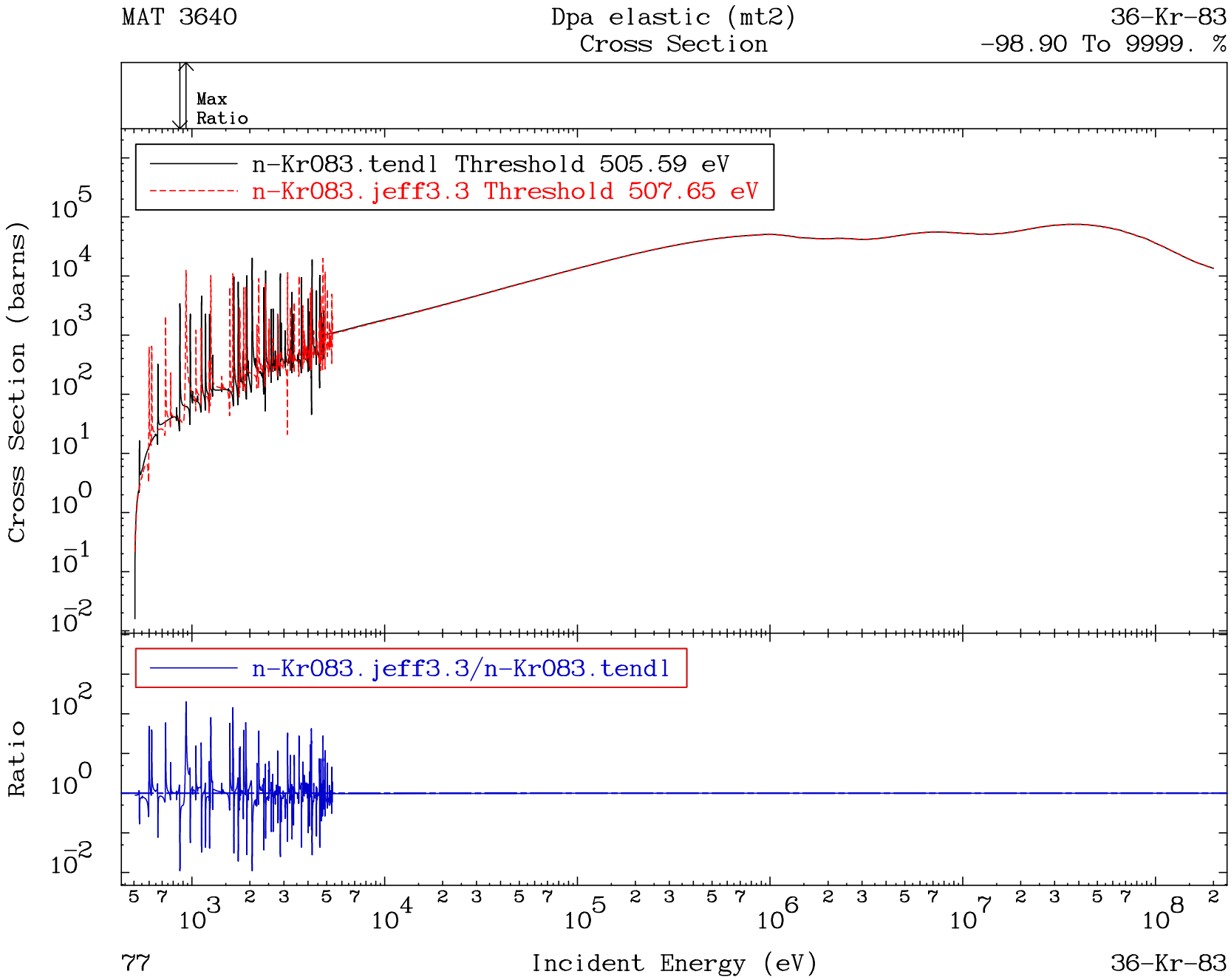

MAT 3640
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
36-Kr-83
-5.855 To 12.89 %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.1
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
36-Kr-83

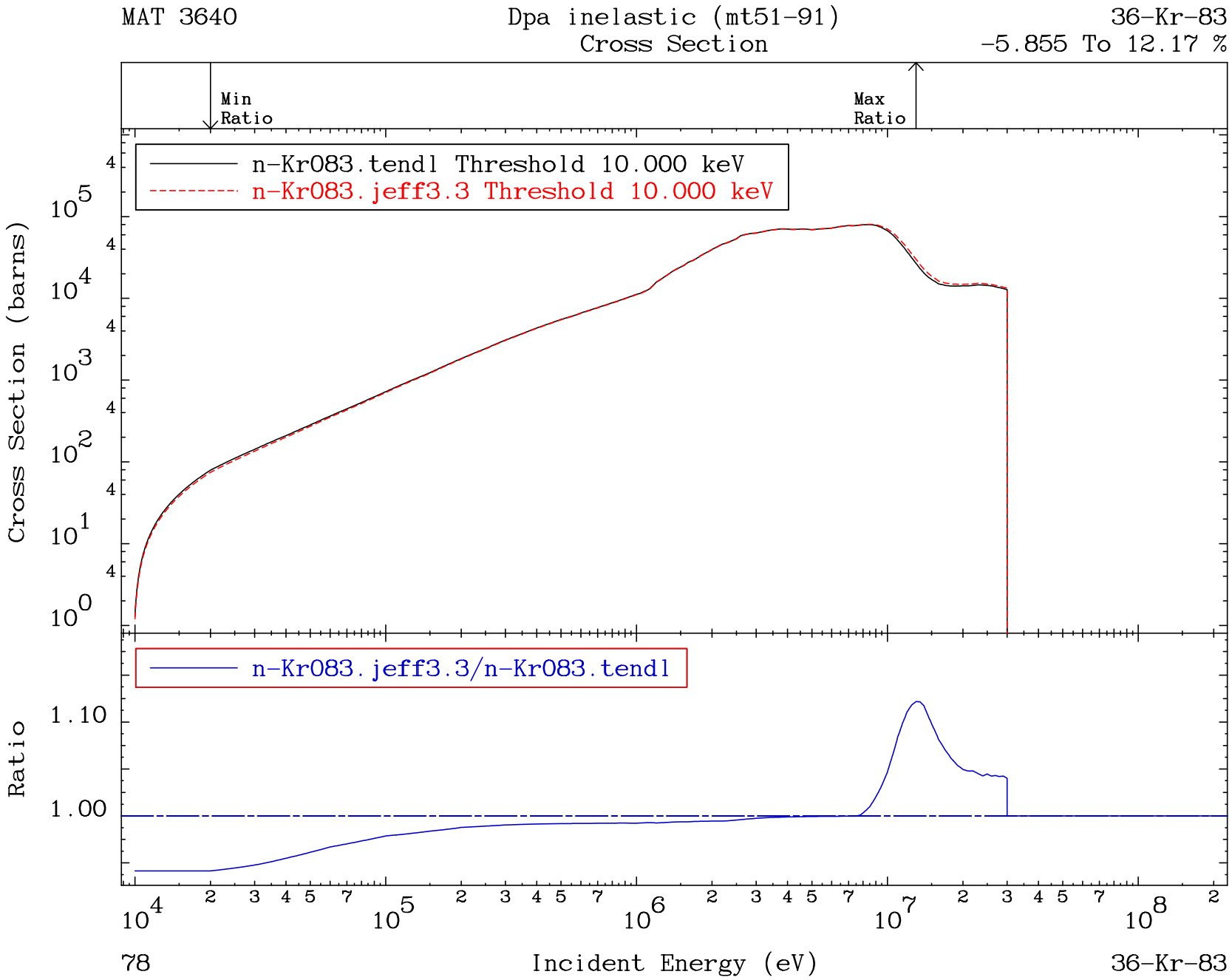

MAT 3640
Kerma capture (mt102)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
73
Incident Energy (eV)
36-Kr-83

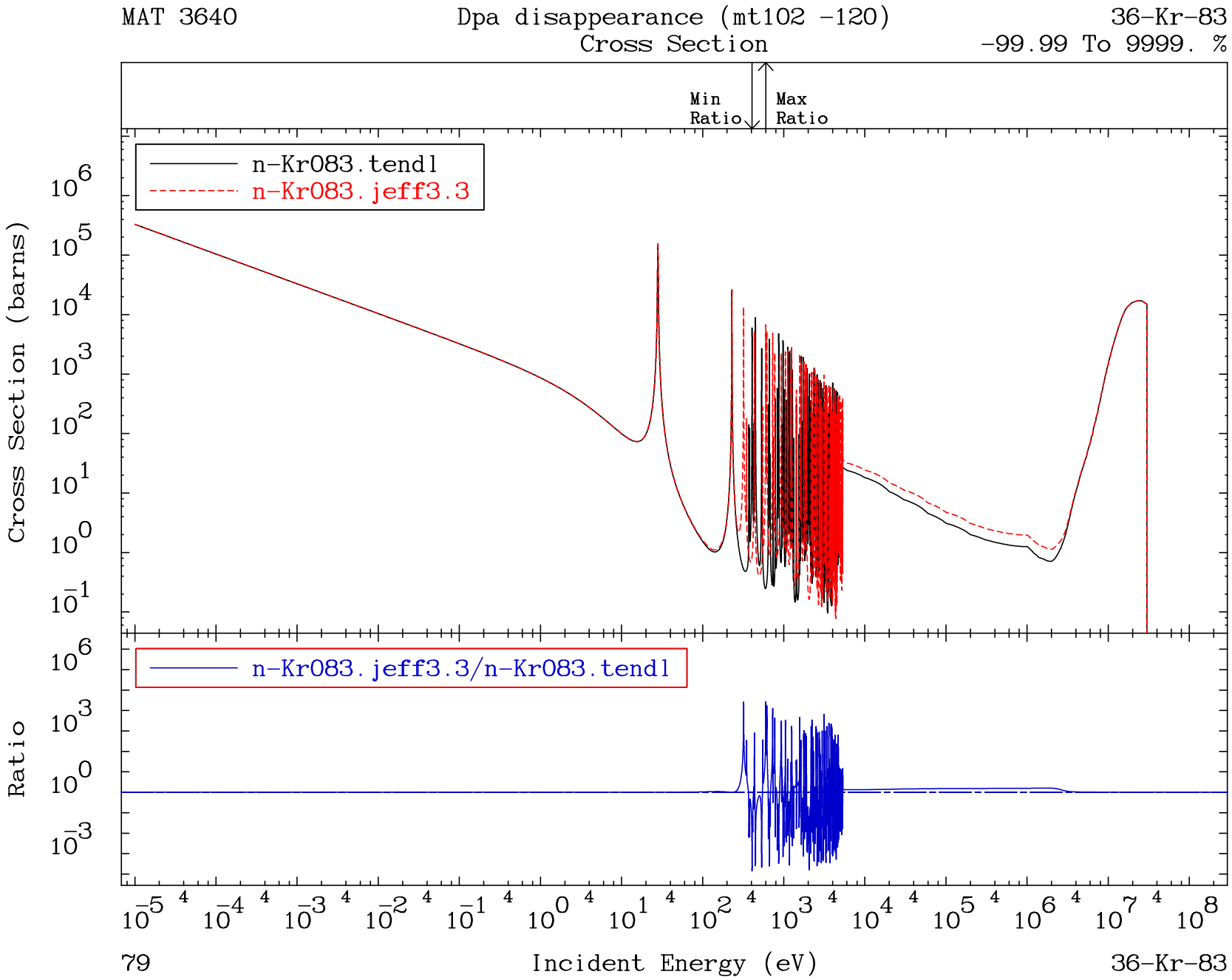

MAT 3640
Total photon (eV-barns)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
74
36-Kr-83

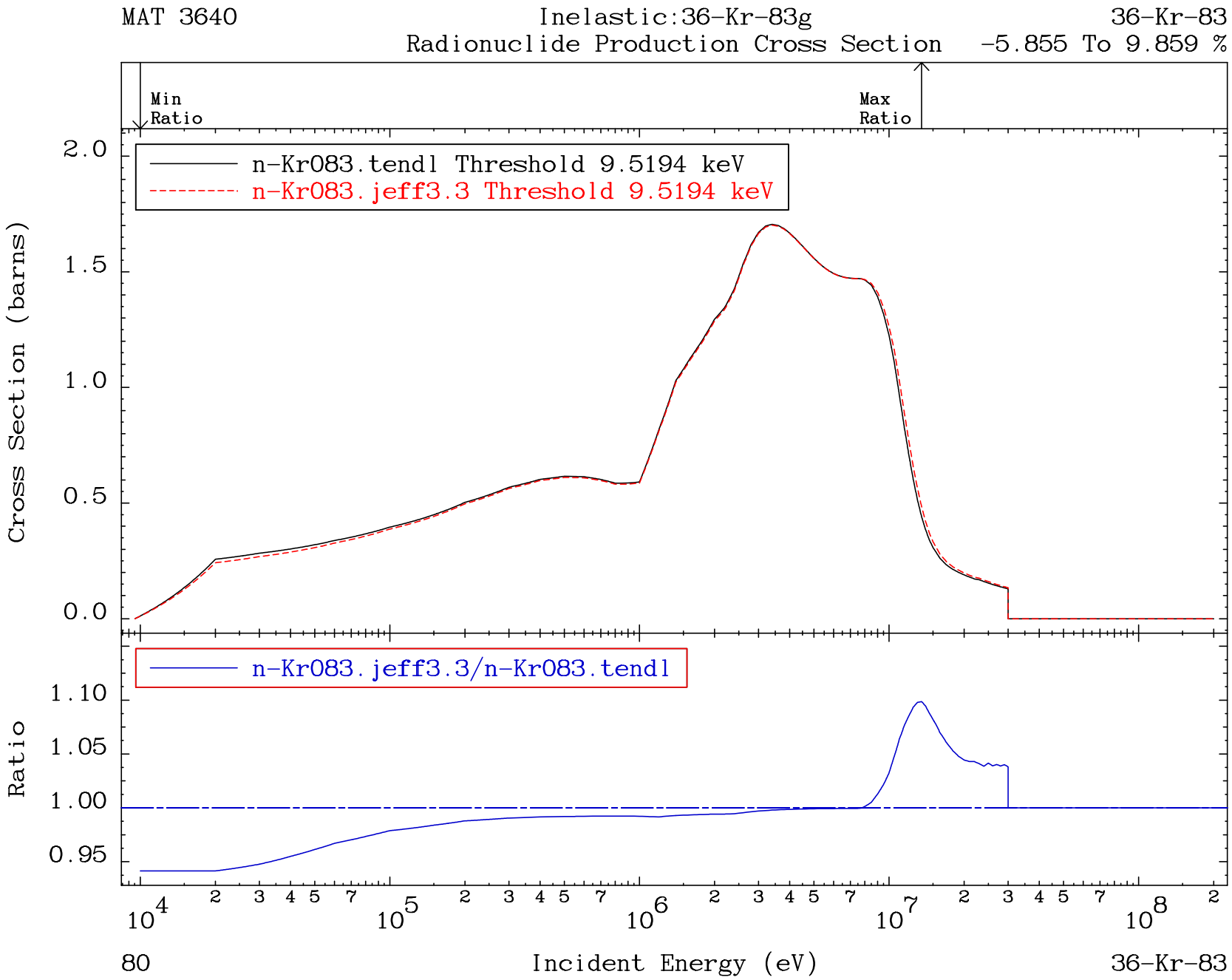

MAT 3640
Total kinematic kerma (high limit)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
75
36-Kr-83

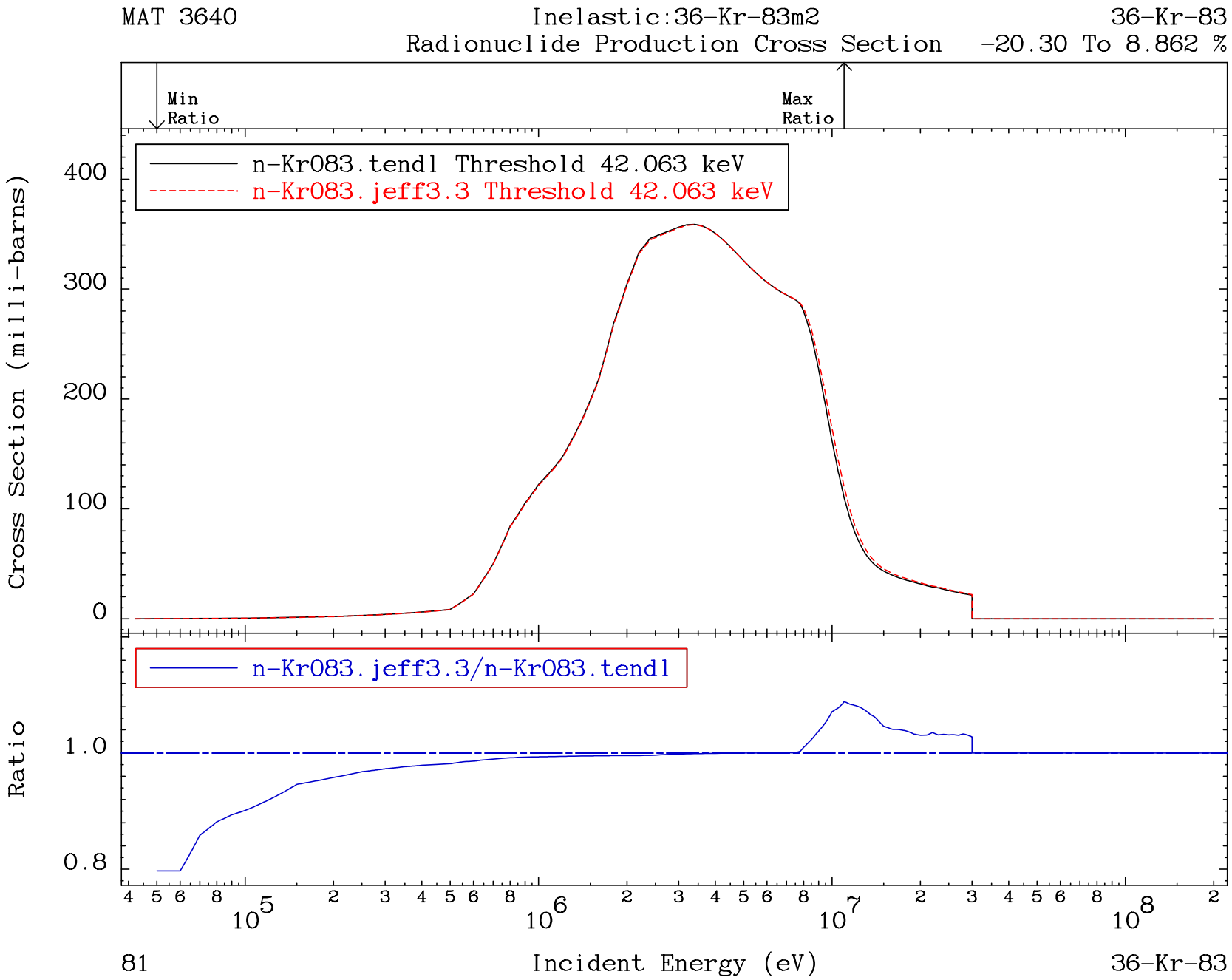

MAT 3640
Dpa total (eV-barns)
Cross Section
36-Kr-83
-99.99 To 9999. %
Max Ratio
Min Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
76
36-Kr-83

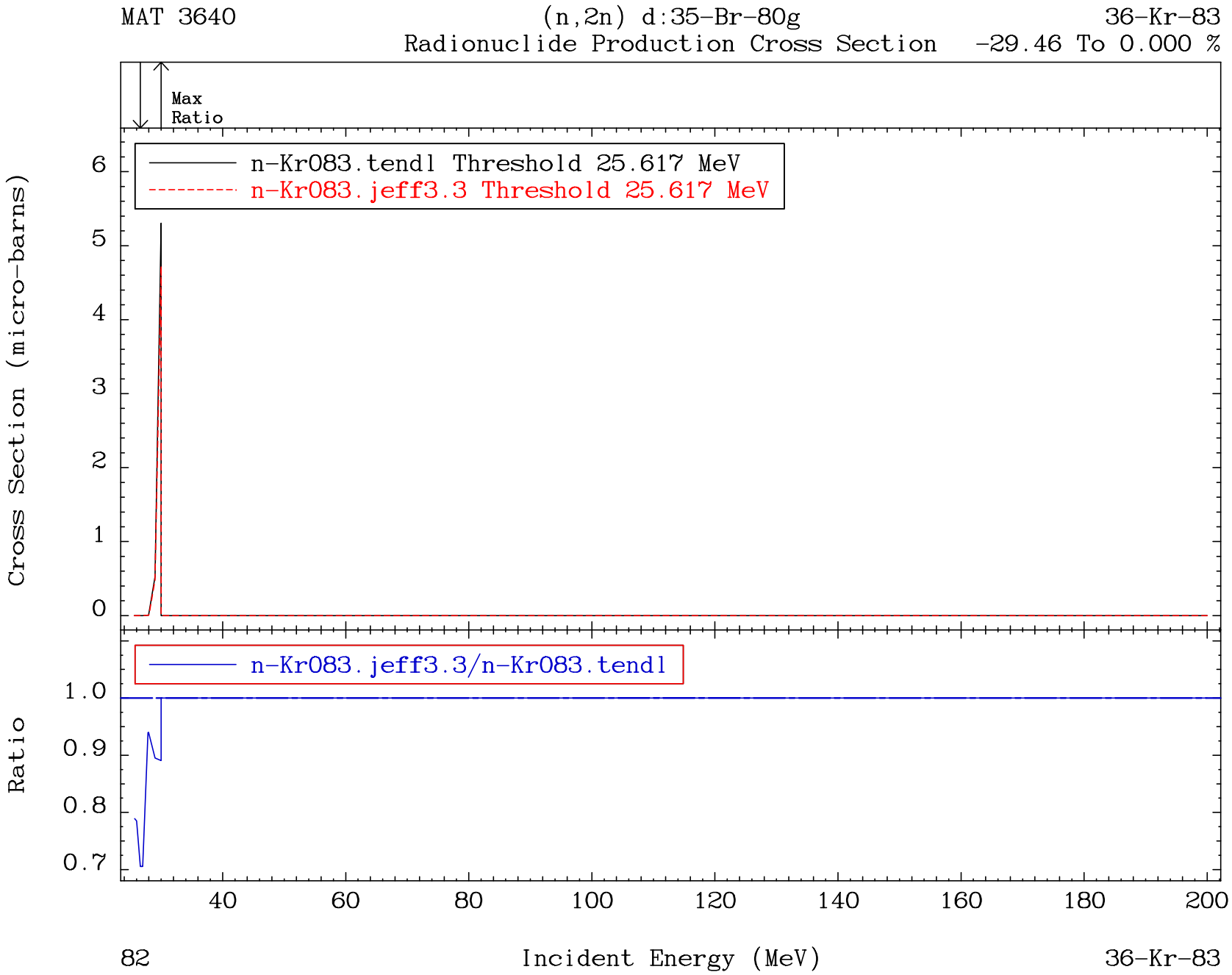

MAT 3640
Dpa elastic (mt2)
Cross Section
36-Kr-83
-98.90 To 9999. %
Max
Ratio
n-Kr083.tendl Threshold 505.59 eV
n-Kr083.jeff3.3 Threshold 507.65 eV
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
77
36-Kr-83

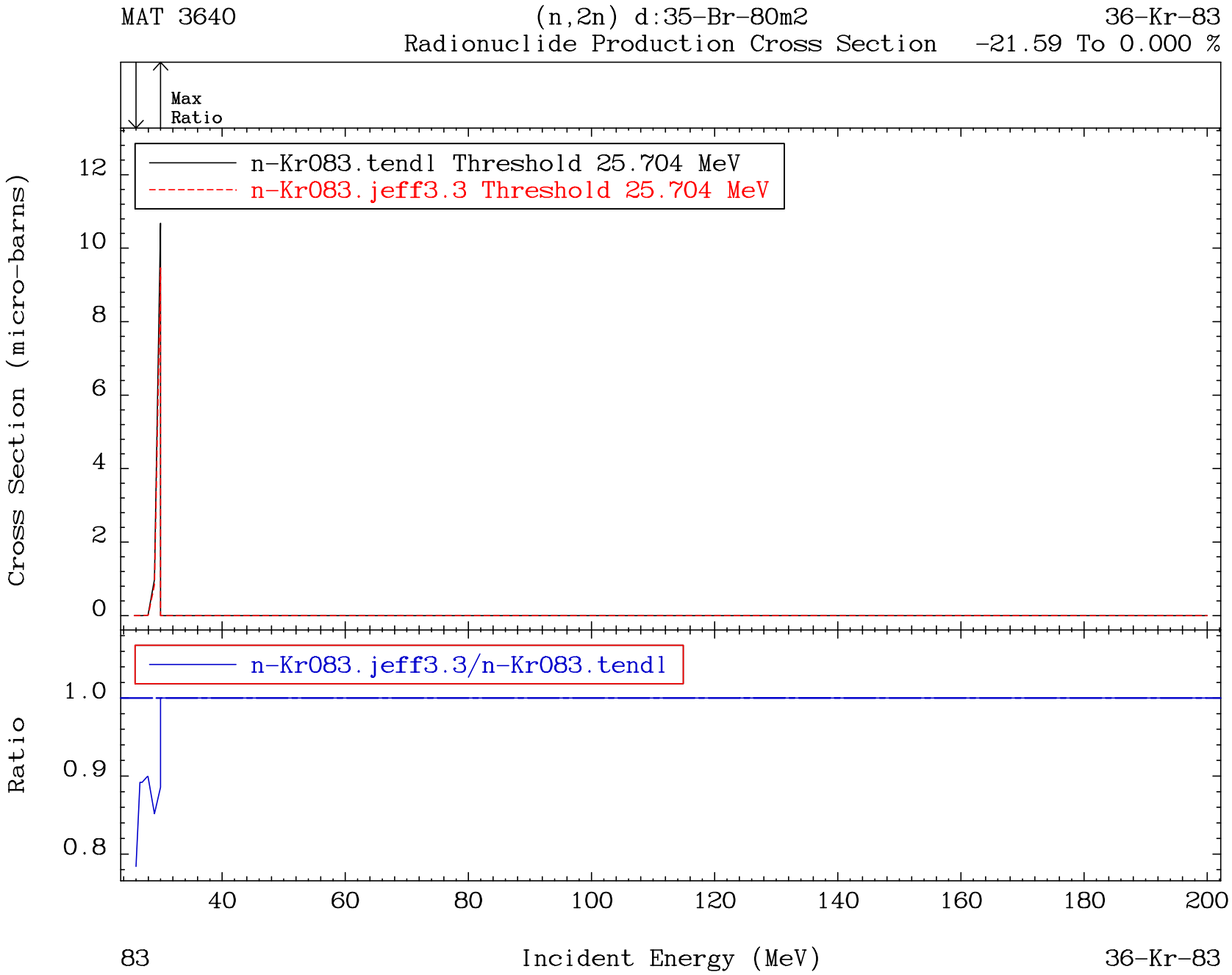

MAT 3640
Dpa inelastic (mt51-91)
Cross Section
36-Kr-83
-5.855 To 12.17 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 10.000 keV
n-Kr083.jeff3.3 Threshold 10.000 keV
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.10
1.00
Incident Energy (eV)
78
36-Kr-83

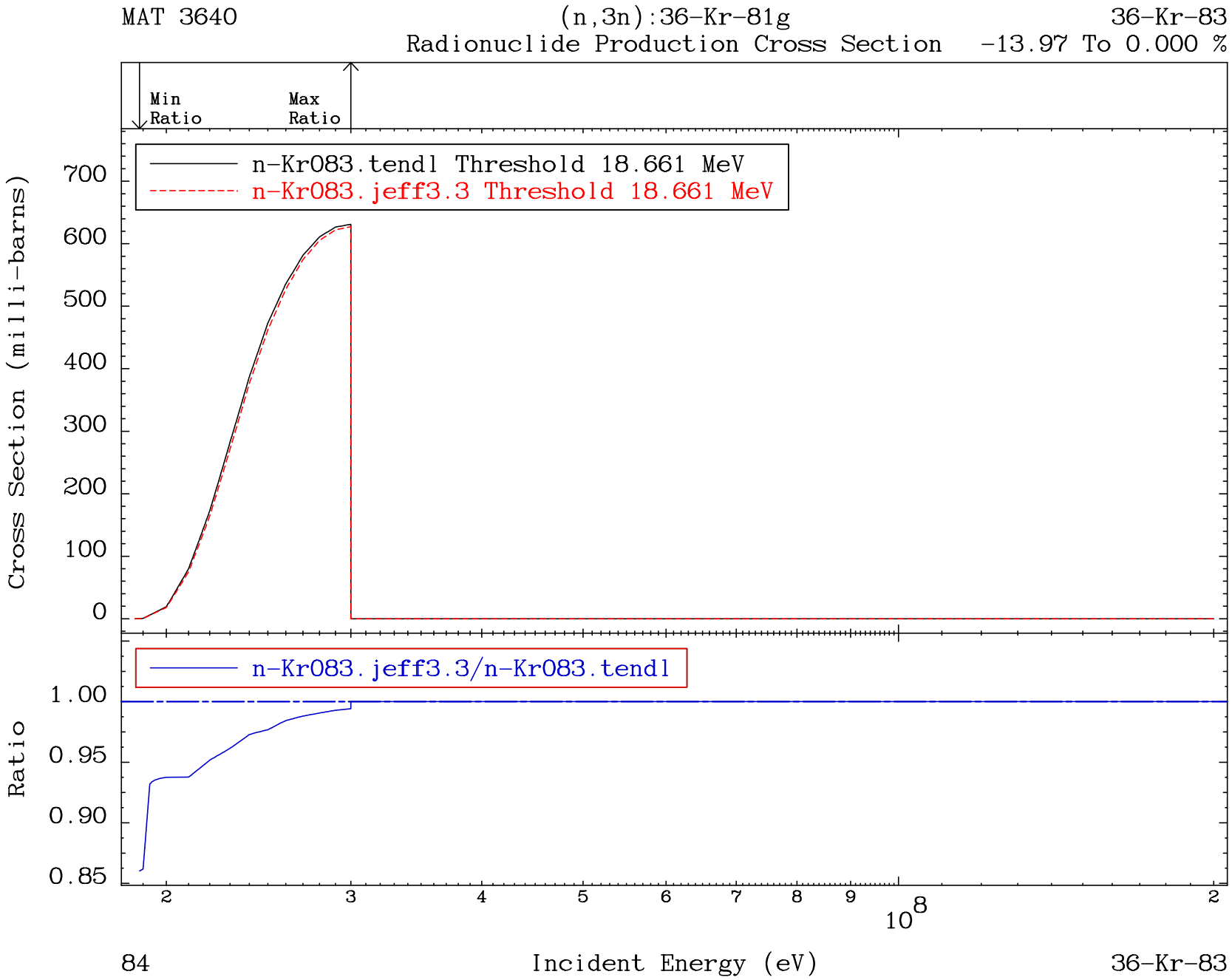

MAT 3640
Dpa disappearance (mt102 -120)
Cross Section
36-Kr-83
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Kr083.tendl
n-Kr083.jeff3.3
Cross Section (barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
79
36-Kr-83

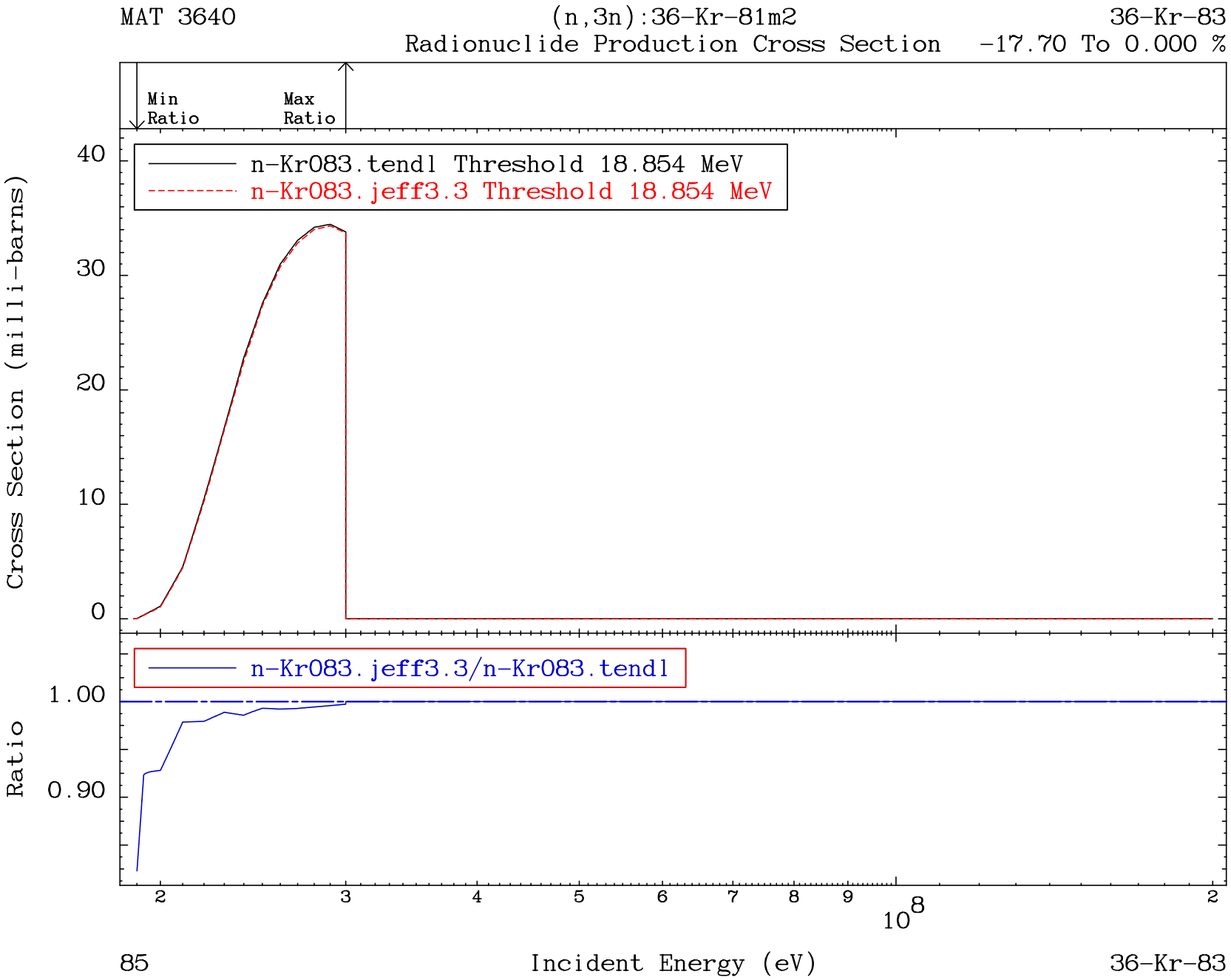

MAT 3640
Inelastic:36-Kr-83g
36-Kr-83
Radionuclide Production Cross Section
-5.855 To 9.859 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.5194 keV
n-Kr083.jeff3.3 Threshold 9.5194 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.10
1.05
1.00
0.95
10^4
10^5
10^6
10^7
10^8
80
Incident Energy (eV)
36-Kr-83

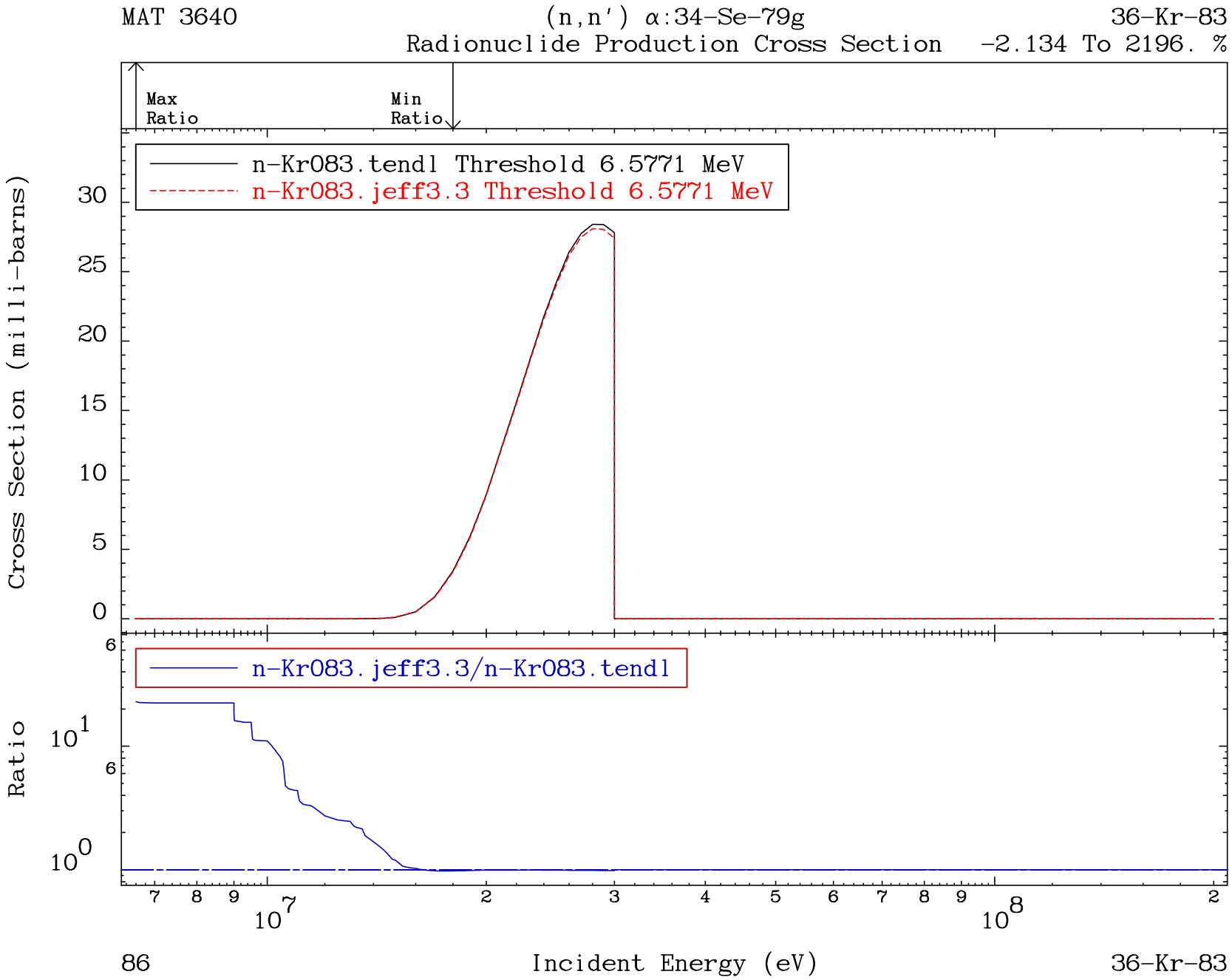

MAT 3640
Inelastic:36-Kr-83m2
36-Kr-83
Radionuclide Production Cross Section -20.30 To 8.862 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 42.063 keV
n-Kr083.jeff3.3 Threshold 42.063 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.8
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
81
Incident Energy (eV)
36-Kr-83

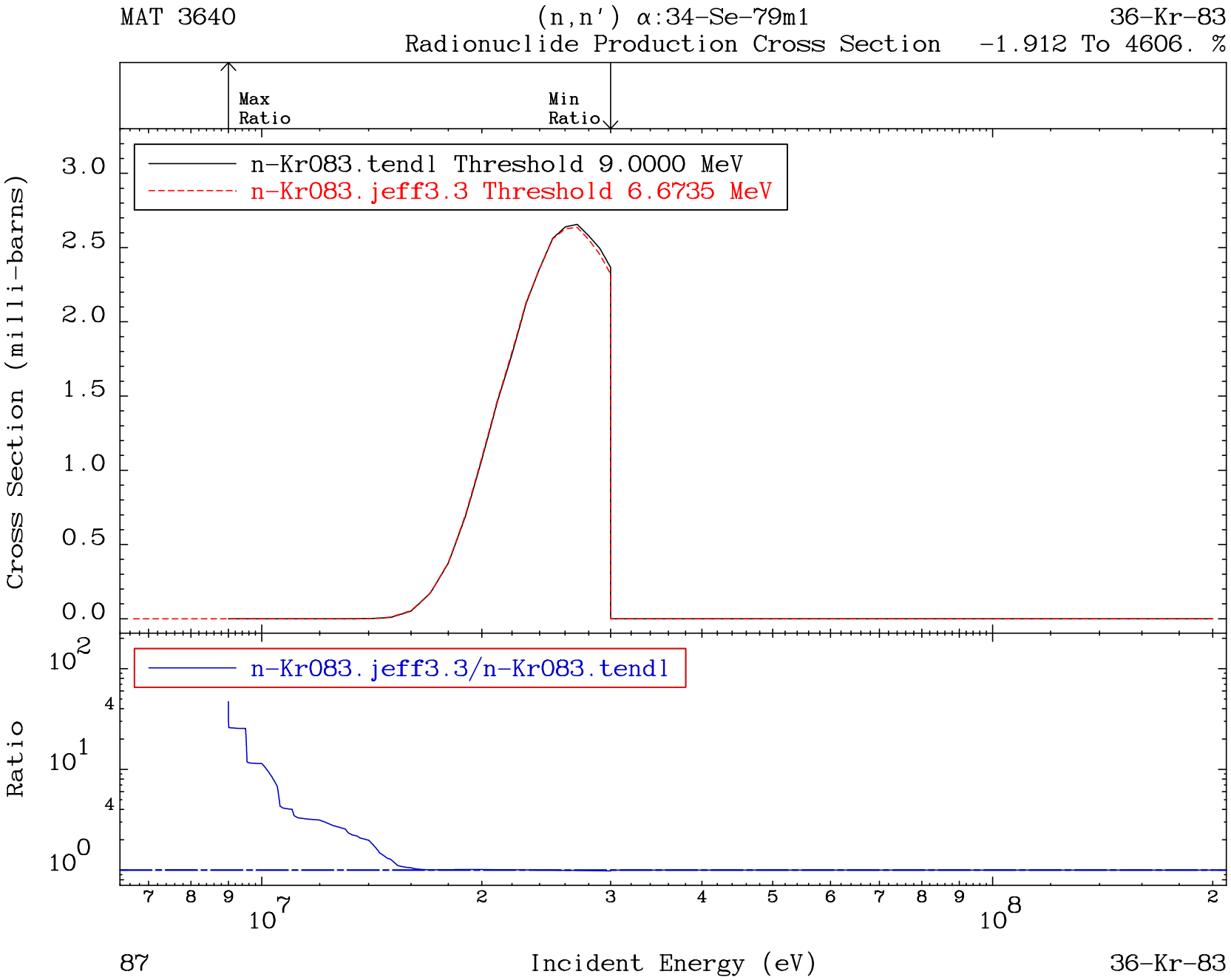

MAT 3640
(n,2n) d:35-Br-80g
36-Kr-83
Radionuclide Production Cross Section -29.46 To 0.000 %
Max
Ratio
n-Kr083.tendl Threshold 25.617 MeV
n-Kr083.jeff3.3 Threshold 25.617 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
0.7
0.8
0.9
1.0
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
36-Kr-83

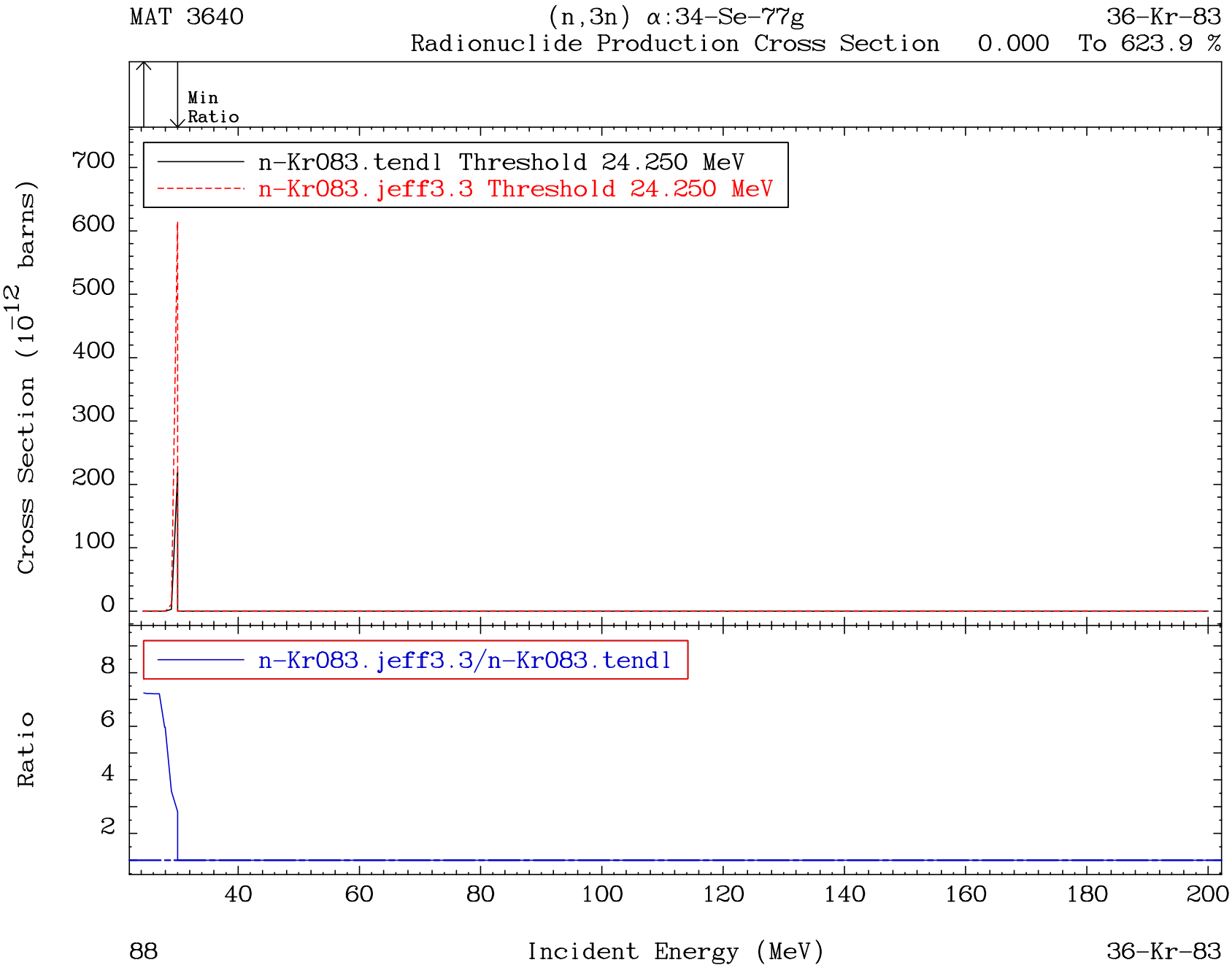

MAT 3640
(n,2n) d:35-Br-80m2
36-Kr-83
Radionuclide Production Cross Section -21.59 To 0.000 %
Max
Ratio
n-Kr083.tendl Threshold 25.704 MeV
n-Kr083.jeff3.3 Threshold 25.704 MeV
Cross Section (micro-barns)
12
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
36-Kr-83

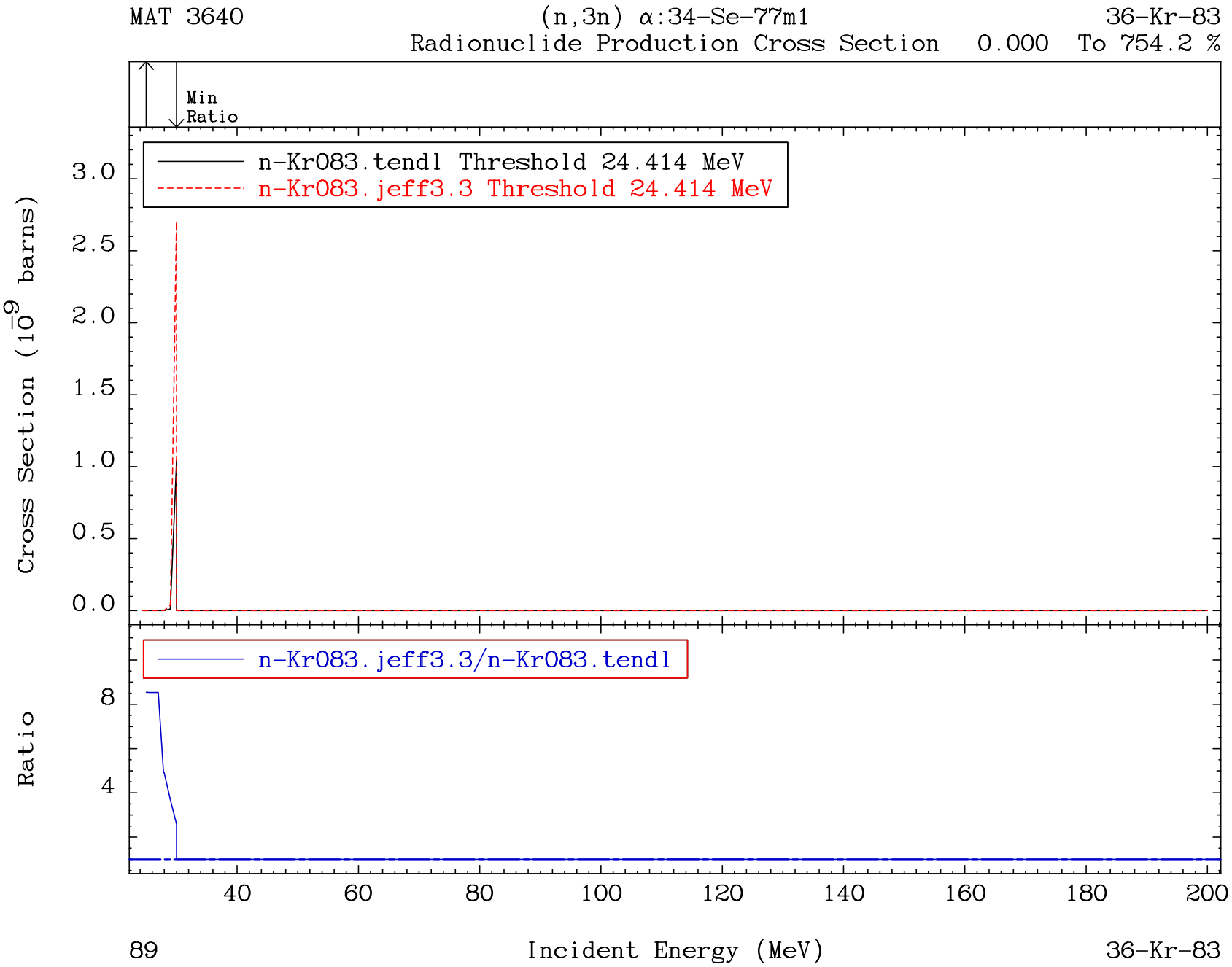

MAT 3640
(n,3n):36-Kr-81g
36-Kr-83
Radionuclide Production Cross Section -13.97 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 18.661 MeV
n-Kr083.jeff3.3 Threshold 18.661 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
36-Kr-83

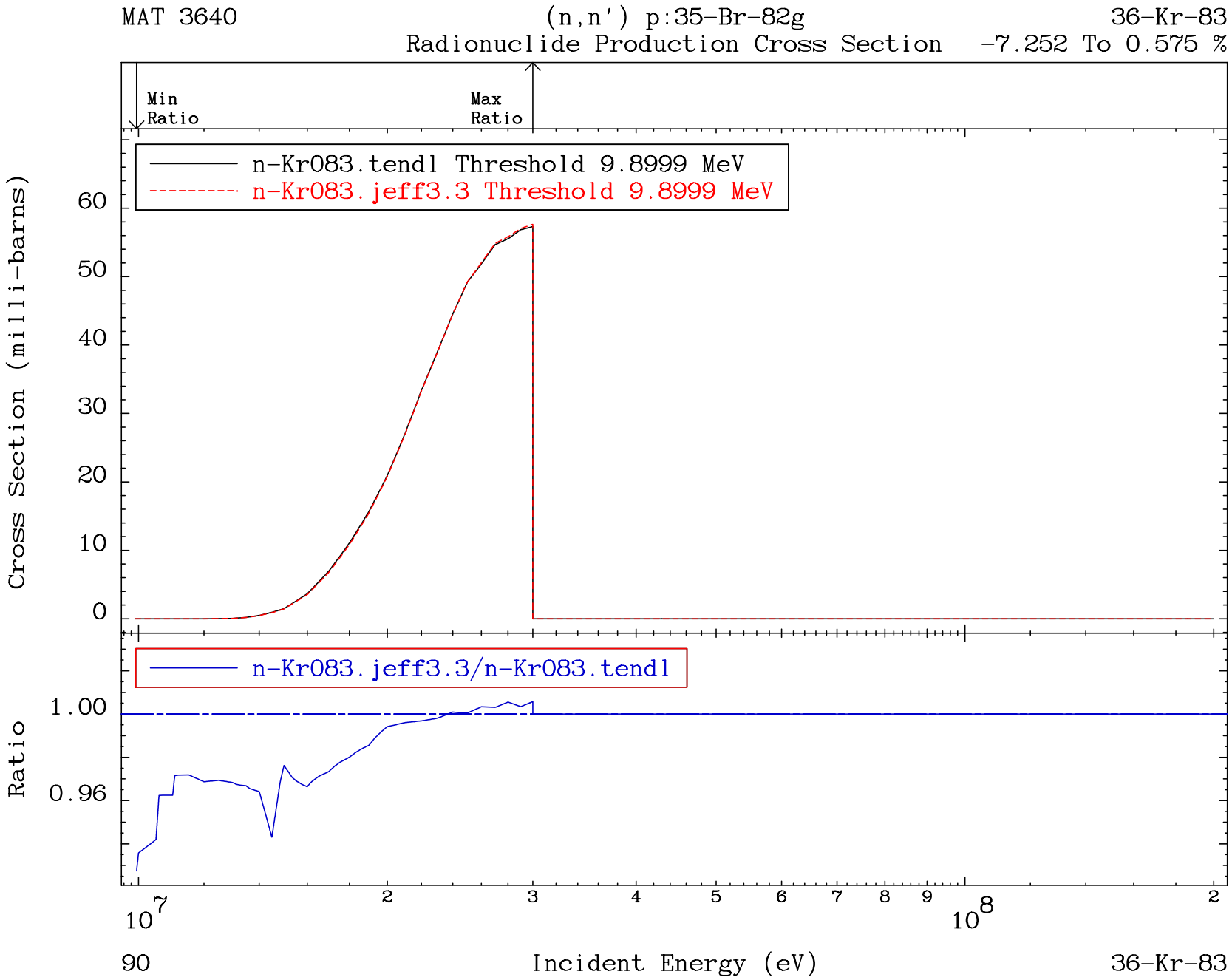

MAT 3640
(n,3n):36-Kr-81m2
36-Kr-83
Radionuclide Production Cross Section -17.70 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 18.854 MeV
n-Kr083.jeff3.3 Threshold 18.854 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.90
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
36-Kr-83

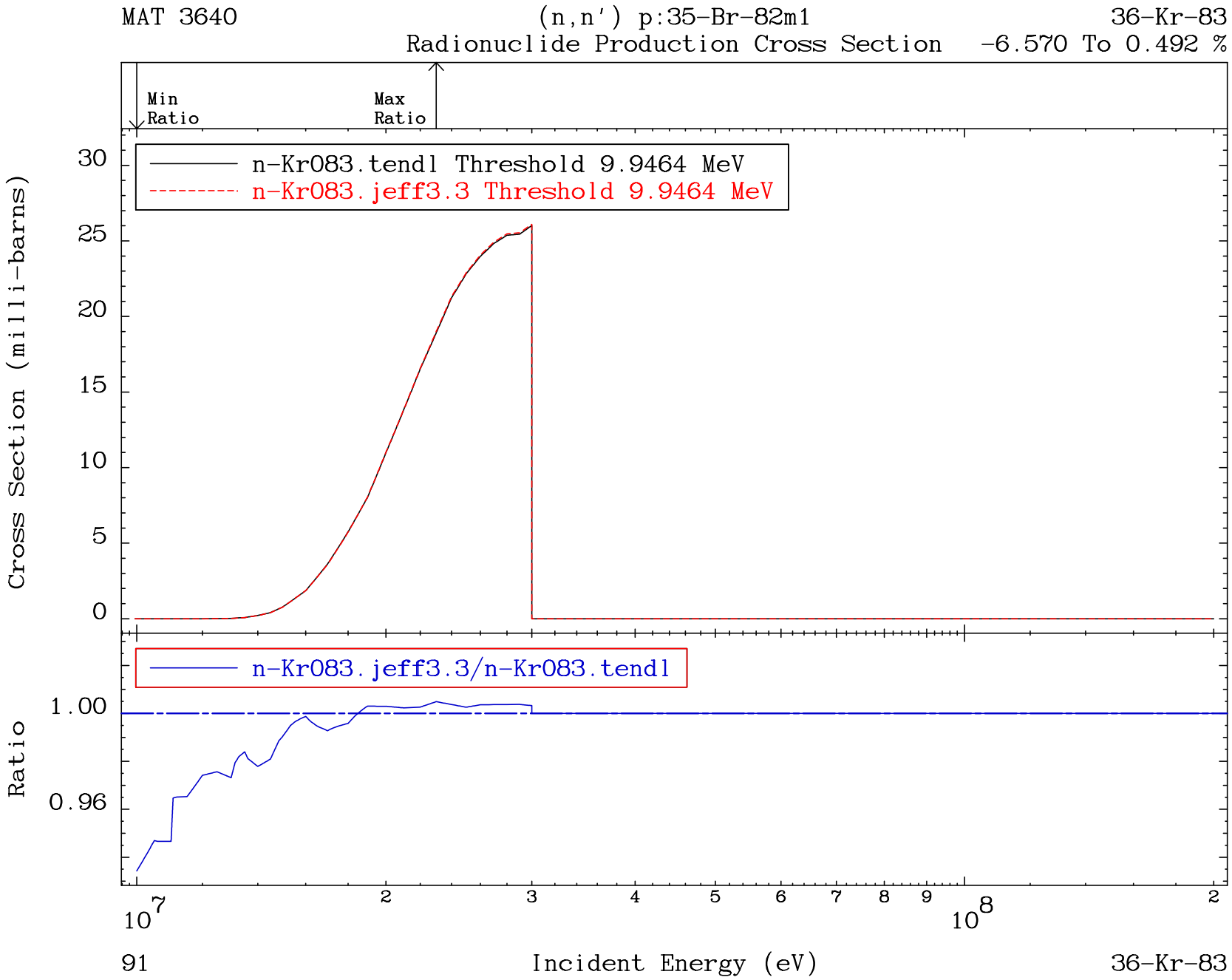

MAT 3640
(n,n') α:34-Se-79g
36-Kr-83
Radionuclide Production Cross Section -2.134 To 2196. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 6.5771 MeV
n-Kr083.jeff3.3 Threshold 6.5771 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
6
10^1
6
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
86
Incident Energy (eV)
36-Kr-83

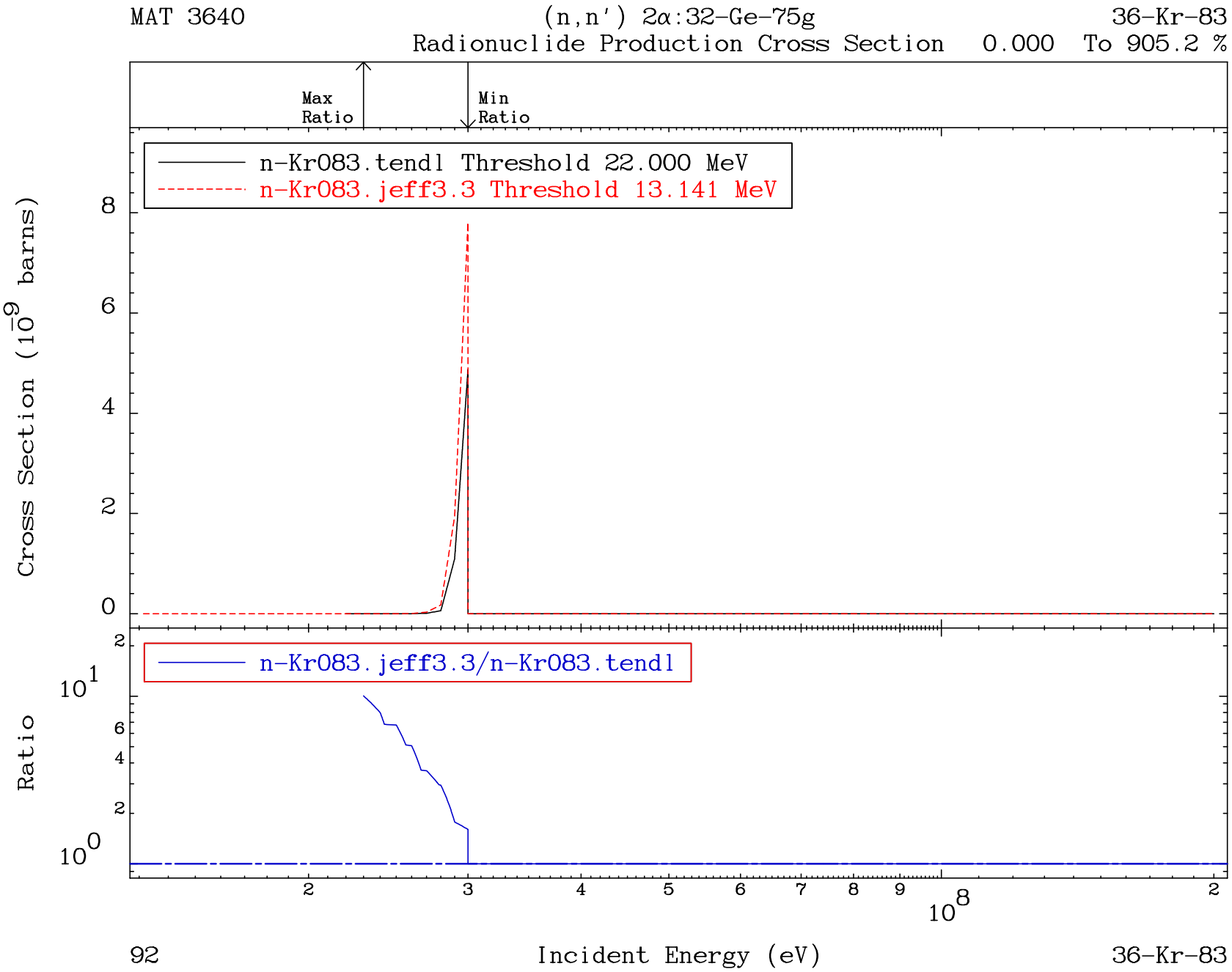

MAT 3640
(n,n') α:34-Se-79m1
36-Kr-83
Radionuclide Production Cross Section -1.912 To 4606. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 9.0000 MeV
n-Kr083.jeff3.3 Threshold 6.6735 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
10^2
4
10^1
4
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
87
Incident Energy (eV)
36-Kr-83

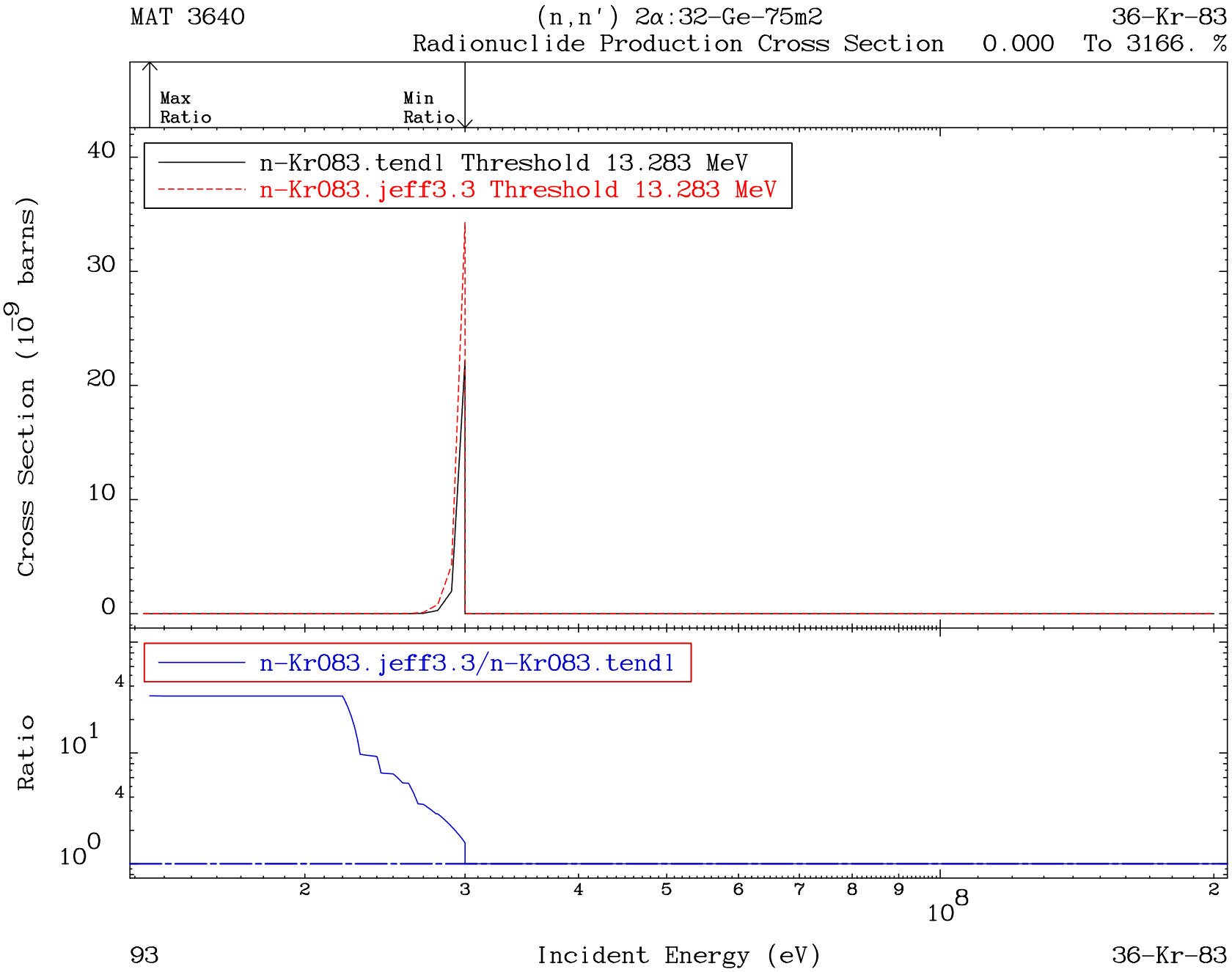

MAT 3640
(n,3n) α:34-Se-77g
36-Kr-83
Radionuclide Production Cross Section 0.000 To 623.9 %
Min Ratio
n-Kr083.tendl Threshold 24.250 MeV
n-Kr083.jeff3.3 Threshold 24.250 MeV
Cross Section (10^{-12} barns)
700
600
500
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
8
6
4
2
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
36-Kr-83

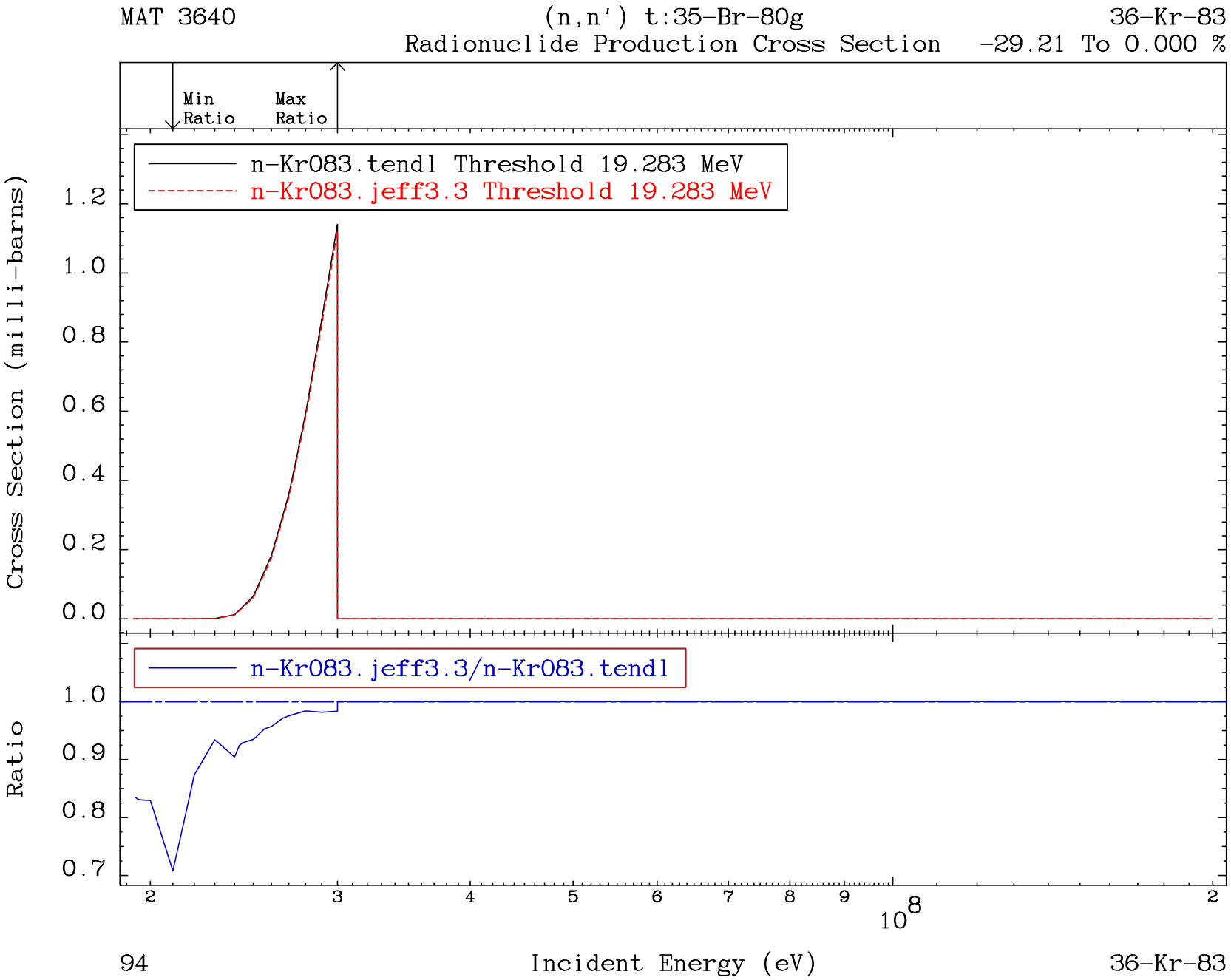

MAT 3640
(n,3n) α:34-Se-77m1
36-Kr-83
Radionuclide Production Cross Section 0.000 To 754.2 %
Min Ratio
n-Kr083.tendl Threshold 24.414 MeV
n-Kr083.jeff3.3 Threshold 24.414 MeV
Cross Section (10^{-9} barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
8
4
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
36-Kr-83

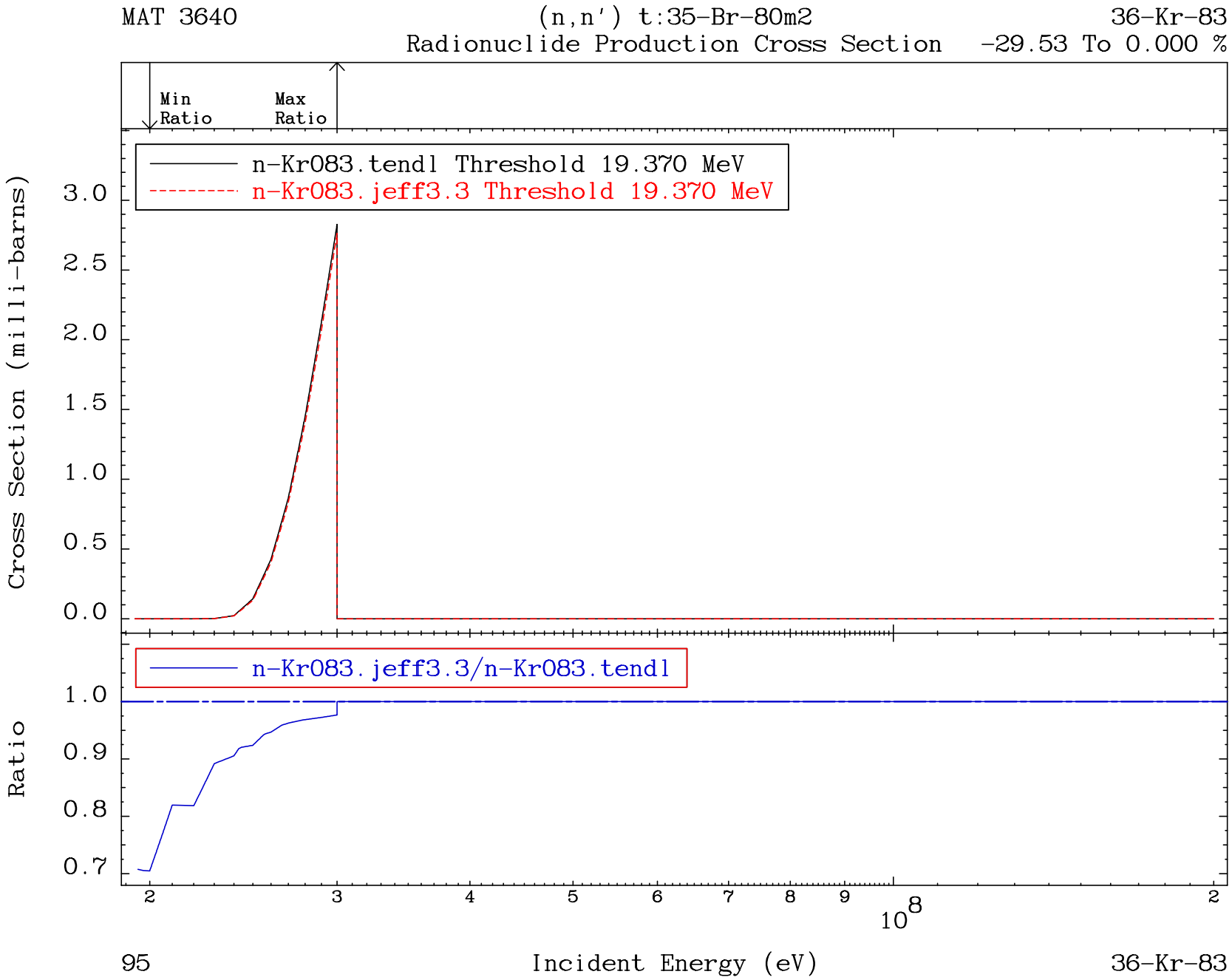

MAT 3640
(n,n') p:35-Br-82g
36-Kr-83
Radionuclide Production Cross Section -7.252 To 0.575 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.8999 MeV
n-Kr083.jeff3.3 Threshold 9.8999 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
36-Kr-83

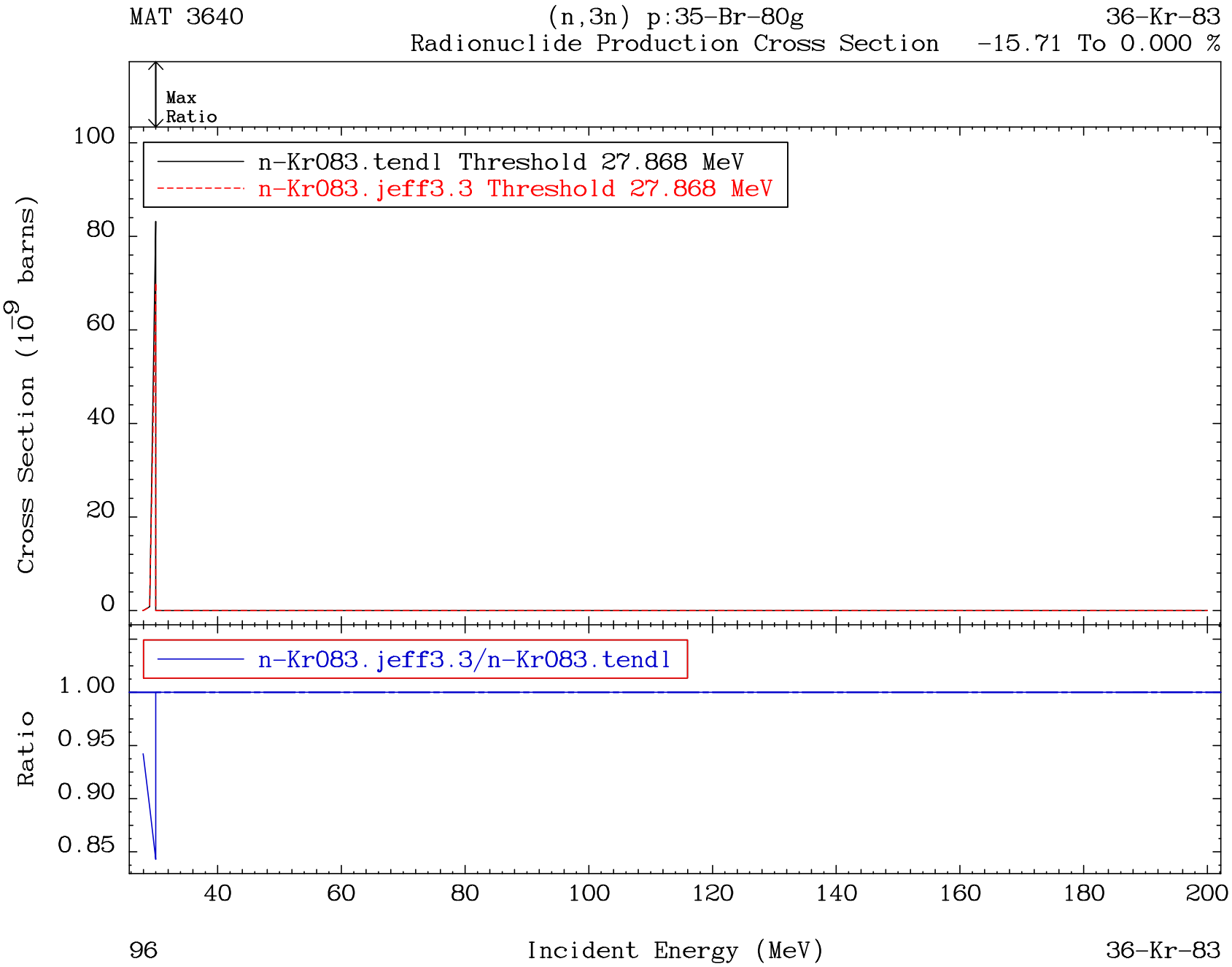

MAT 3640
(n,n') p:35-Br-82m1
36-Kr-83
Radionuclide Production Cross Section -6.570 To 0.492 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 9.9464 MeV
n-Kr083.jeff3.3 Threshold 9.9464 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
36-Kr-83

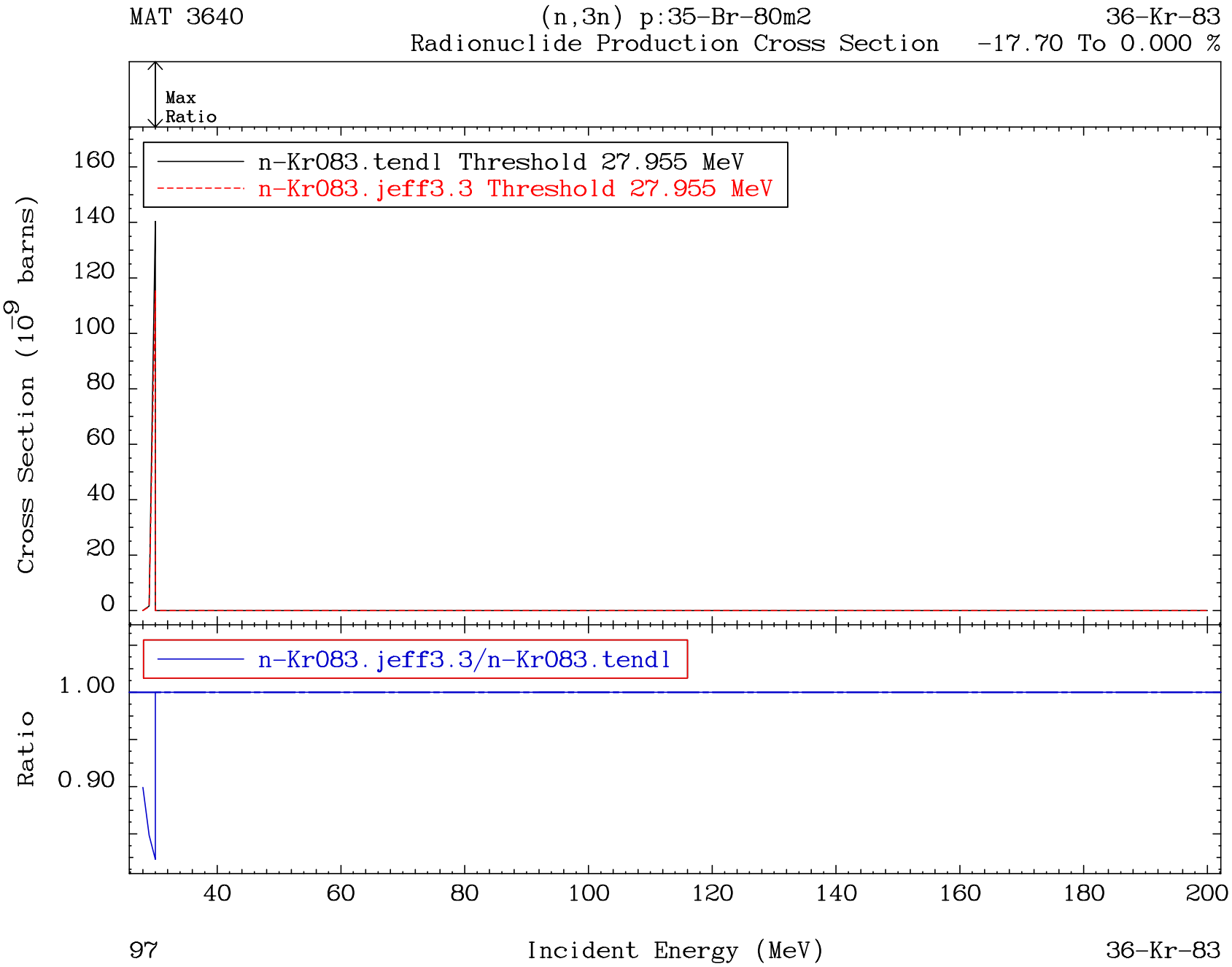

MAT 3640
(n,n') 2α:32-Ge-75g
36-Kr-83
Radionuclide Production Cross Section 0.000 To 905.2 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 22.000 MeV
n-Kr083.jeff3.3 Threshold 13.141 MeV
Cross Section (10^{-9} barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
92
36-Kr-83

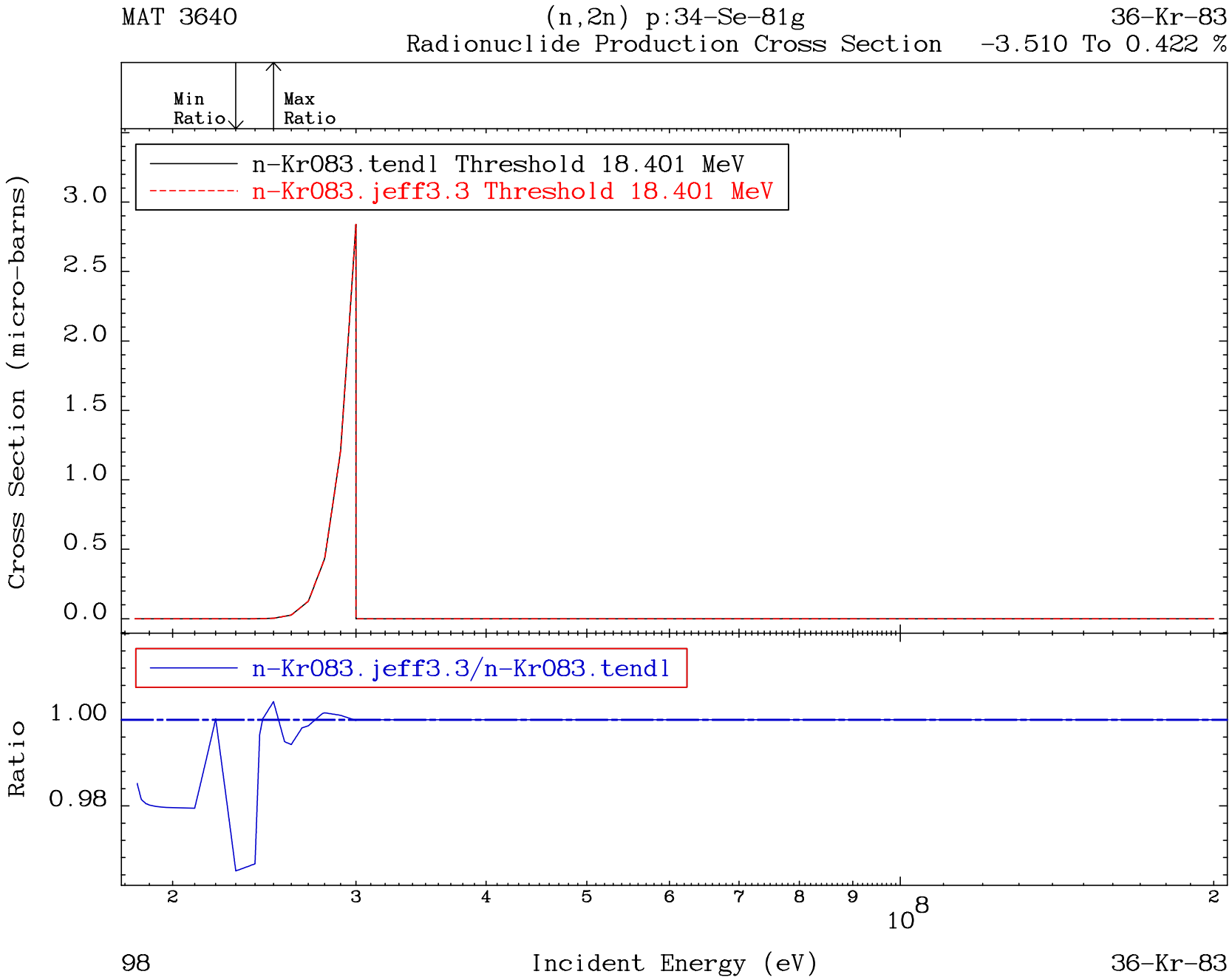

MAT 3640
(n,n') 2α:32-Ge-75m2
36-Kr-83
Radionuclide Production Cross Section 0.000 To 3166. %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 13.283 MeV
n-Kr083.jeff3.3 Threshold 13.283 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
10^{1}
4
10^{0}
4
2
3
4
5
6
7
8
9
10^{8}
2
93
Incident Energy (eV)
36-Kr-83

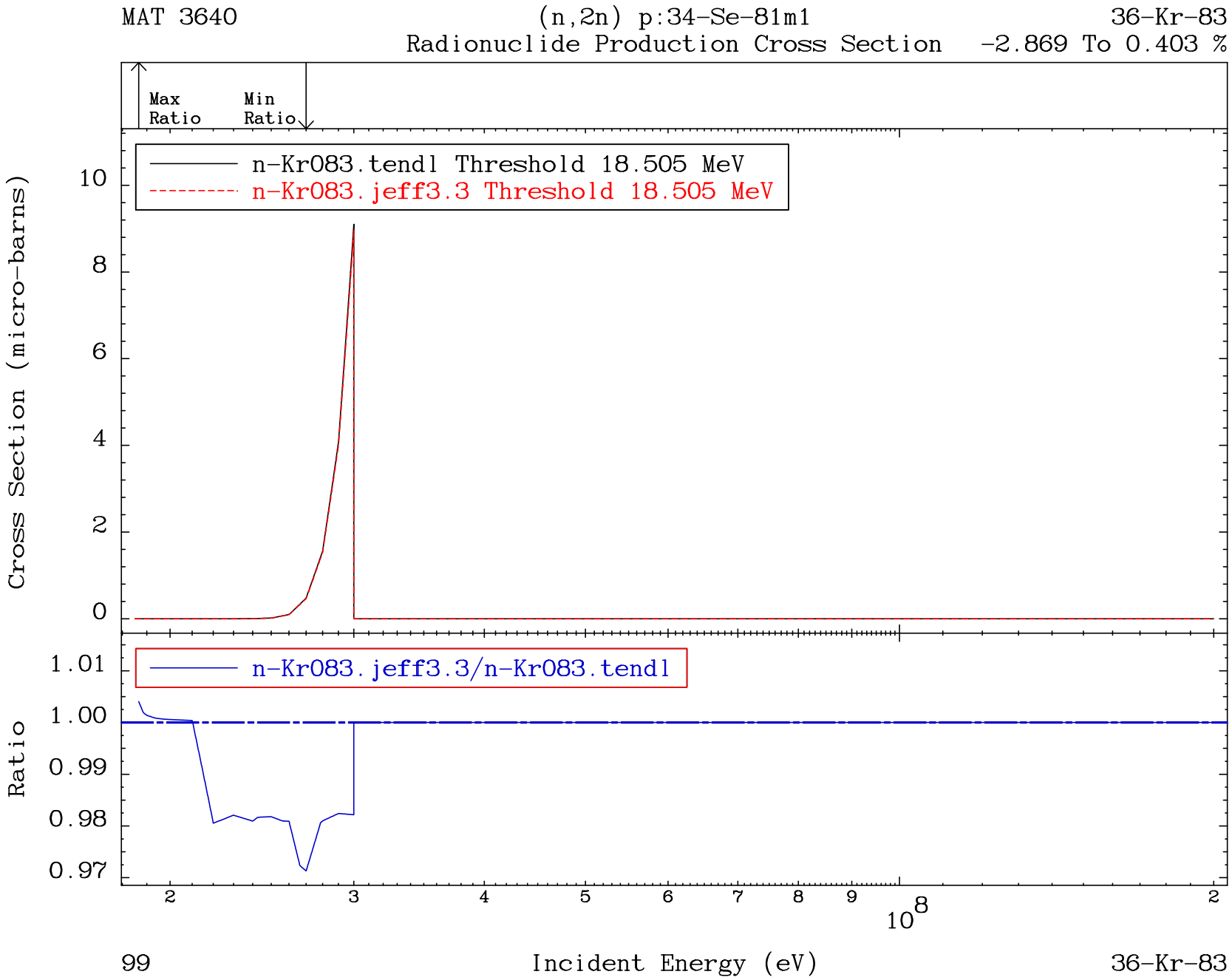

MAT 3640
(n,n') t:35-Br-80g
36-Kr-83
Radionuclide Production Cross Section -29.21 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 19.283 MeV
n-Kr083.jeff3.3 Threshold 19.283 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.9
0.8
0.7
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
36-Kr-83

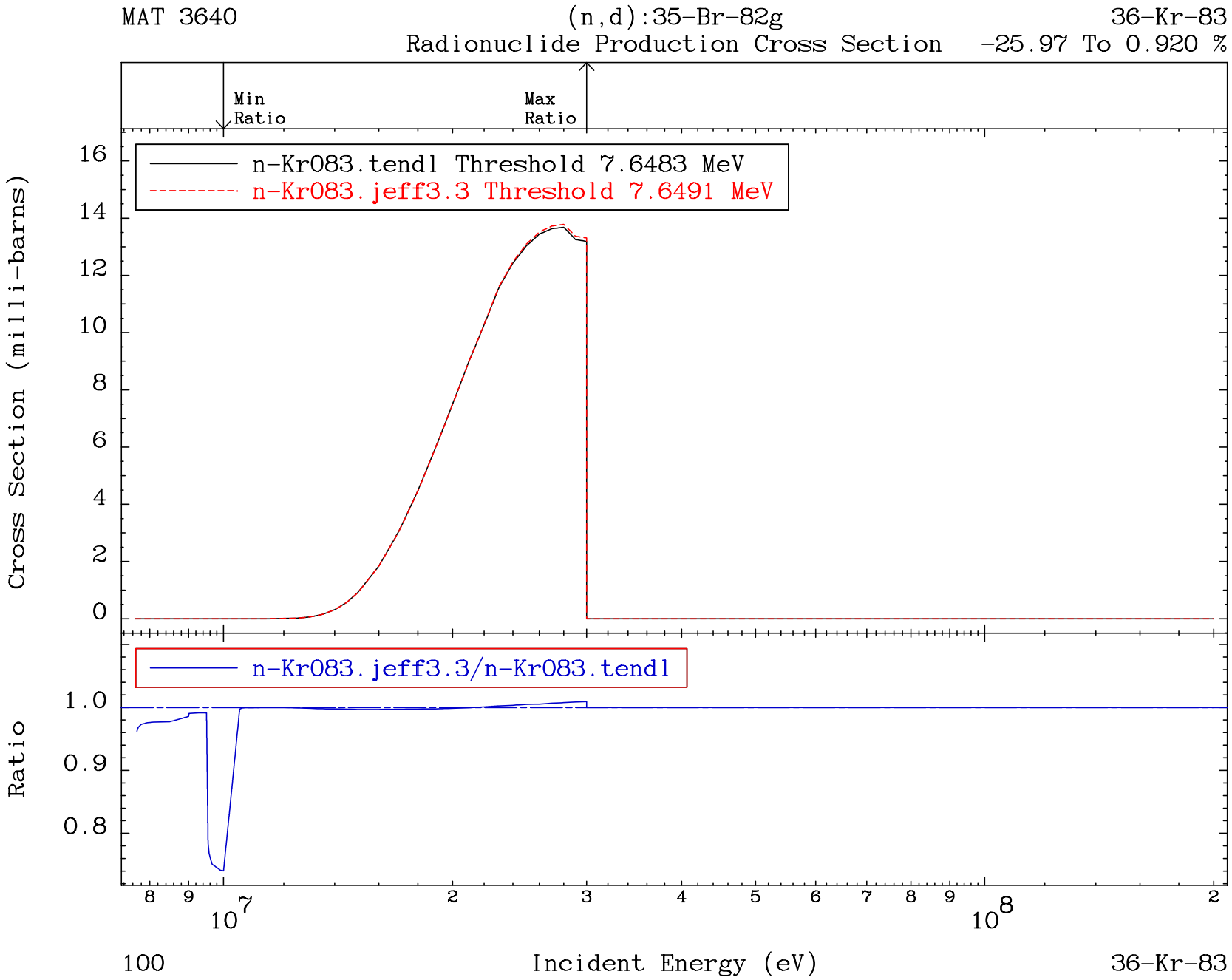

MAT 3640
(n,n') t:35-Br-80m2
36-Kr-83
Radionuclide Production Cross Section -29.53 To 0.000 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 19.370 MeV
n-Kr083.jeff3.3 Threshold 19.370 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.9
0.8
0.7
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
36-Kr-83

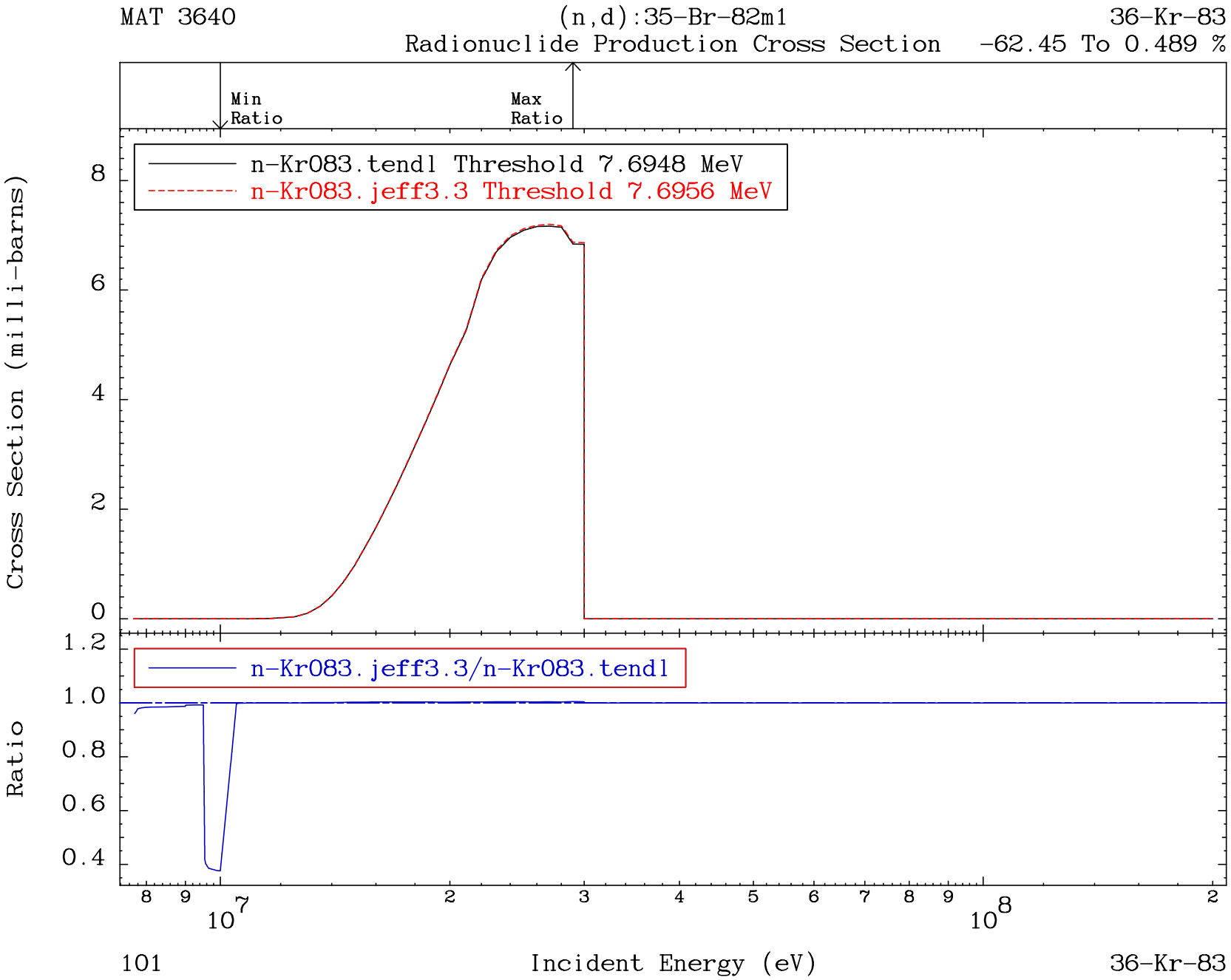

MAT 3640
(n,3n) p:35-Br-80g
36-Kr-83
Radionuclide Production Cross Section -15.71 To 0.000 %
Max Ratio
n-Kr083.tendl Threshold 27.868 MeV
n-Kr083.jeff3.3 Threshold 27.868 MeV
Cross Section (10^{-9} barns)
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.95
0.90
0.85
40
60
80
100
120
140
160
180
200
96
Incident Energy (MeV)
36-Kr-83

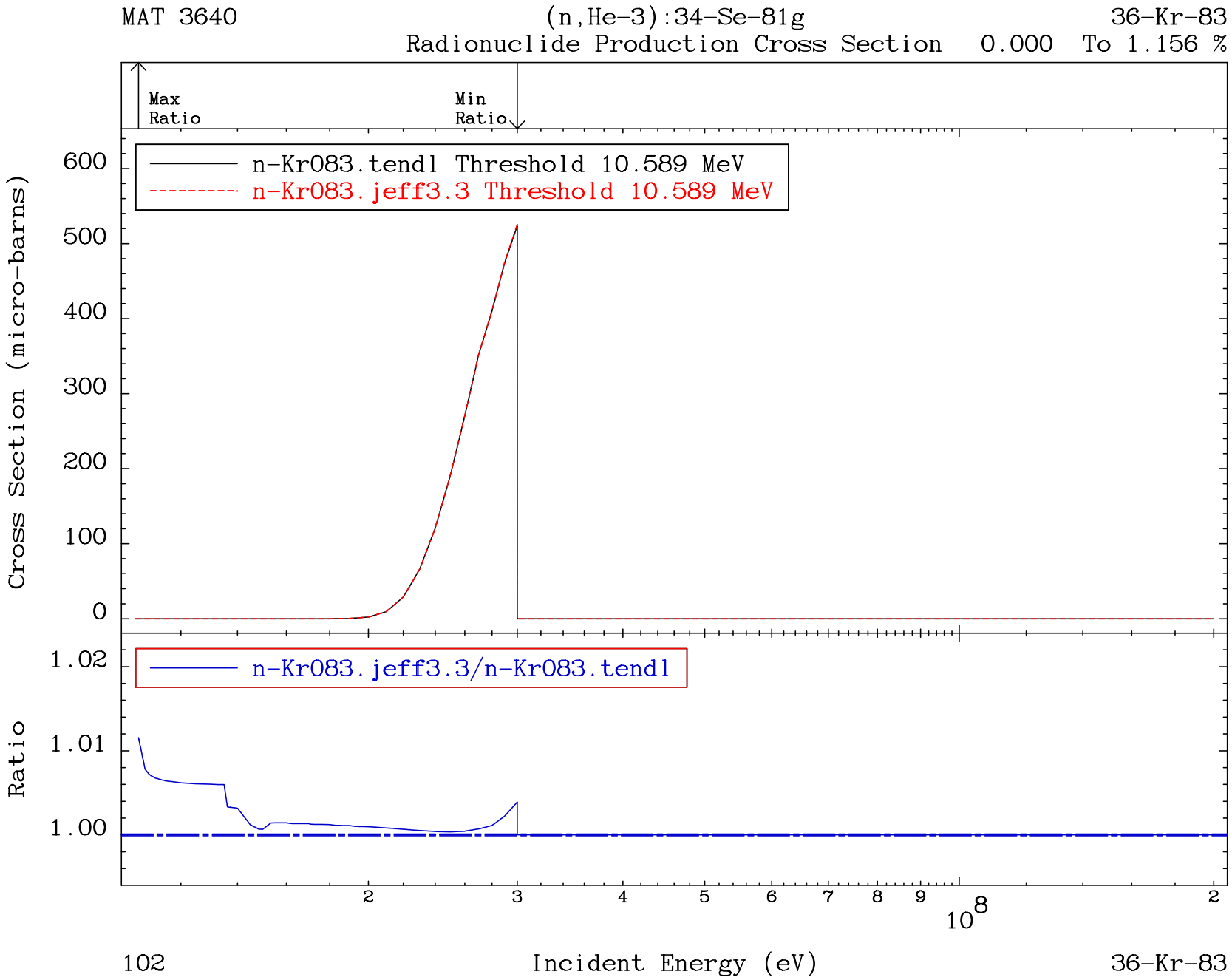

MAT 3640
(n,3n) p:35-Br-80m2
36-Kr-83
Radionuclide Production Cross Section -17.70 To 0.000 %
Max Ratio
n-Kr083.tendl Threshold 27.955 MeV
n-Kr083.jeff3.3 Threshold 27.955 MeV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.90
40
60
80
100
120
140
160
180
200
97
Incident Energy (MeV)
36-Kr-83

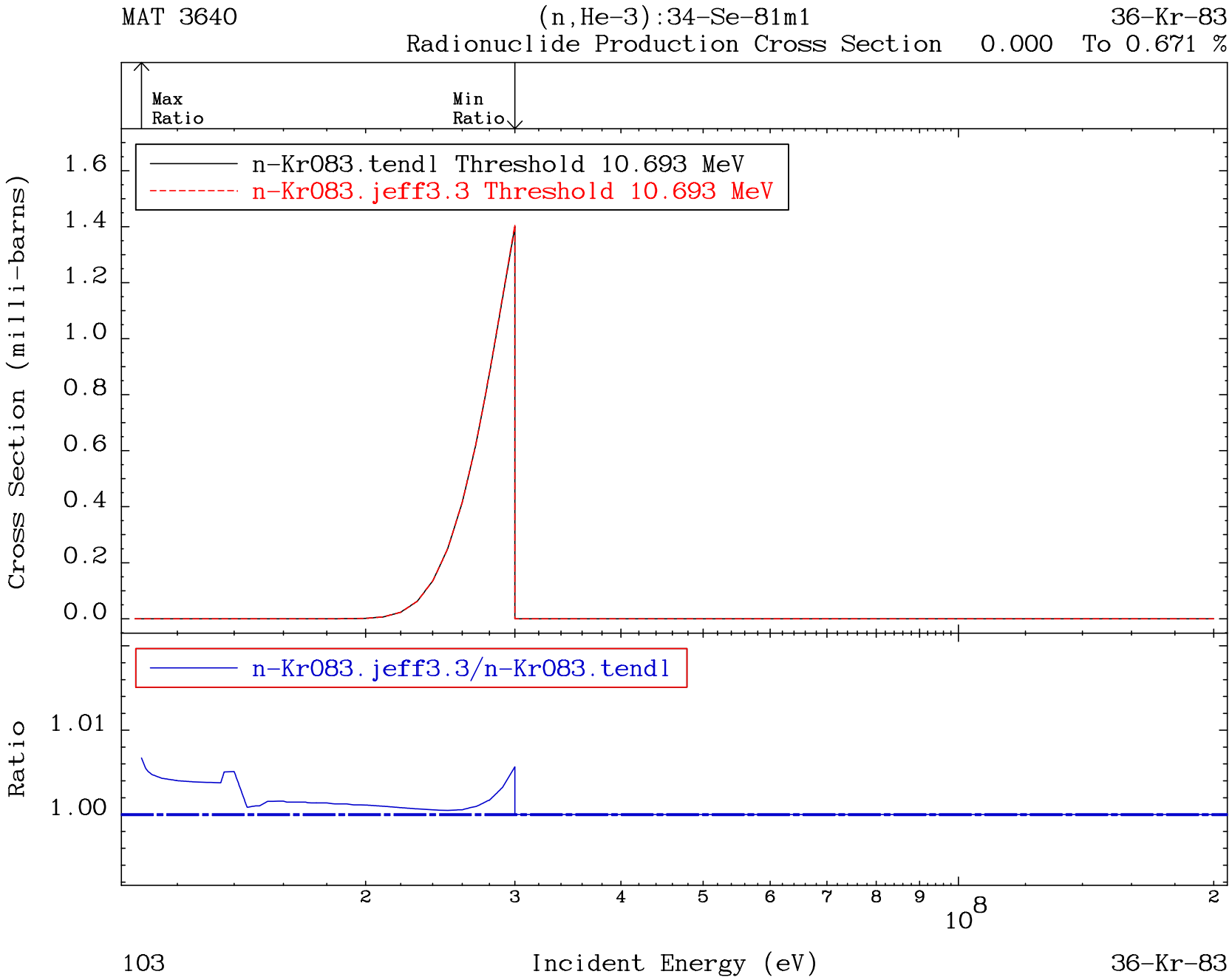

MAT 3640
(n,2n) p:34-Se-81g
36-Kr-83
Radionuclide Production Cross Section -3.510 To 0.422 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 18.401 MeV
n-Kr083.jeff3.3 Threshold 18.401 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
36-Kr-83

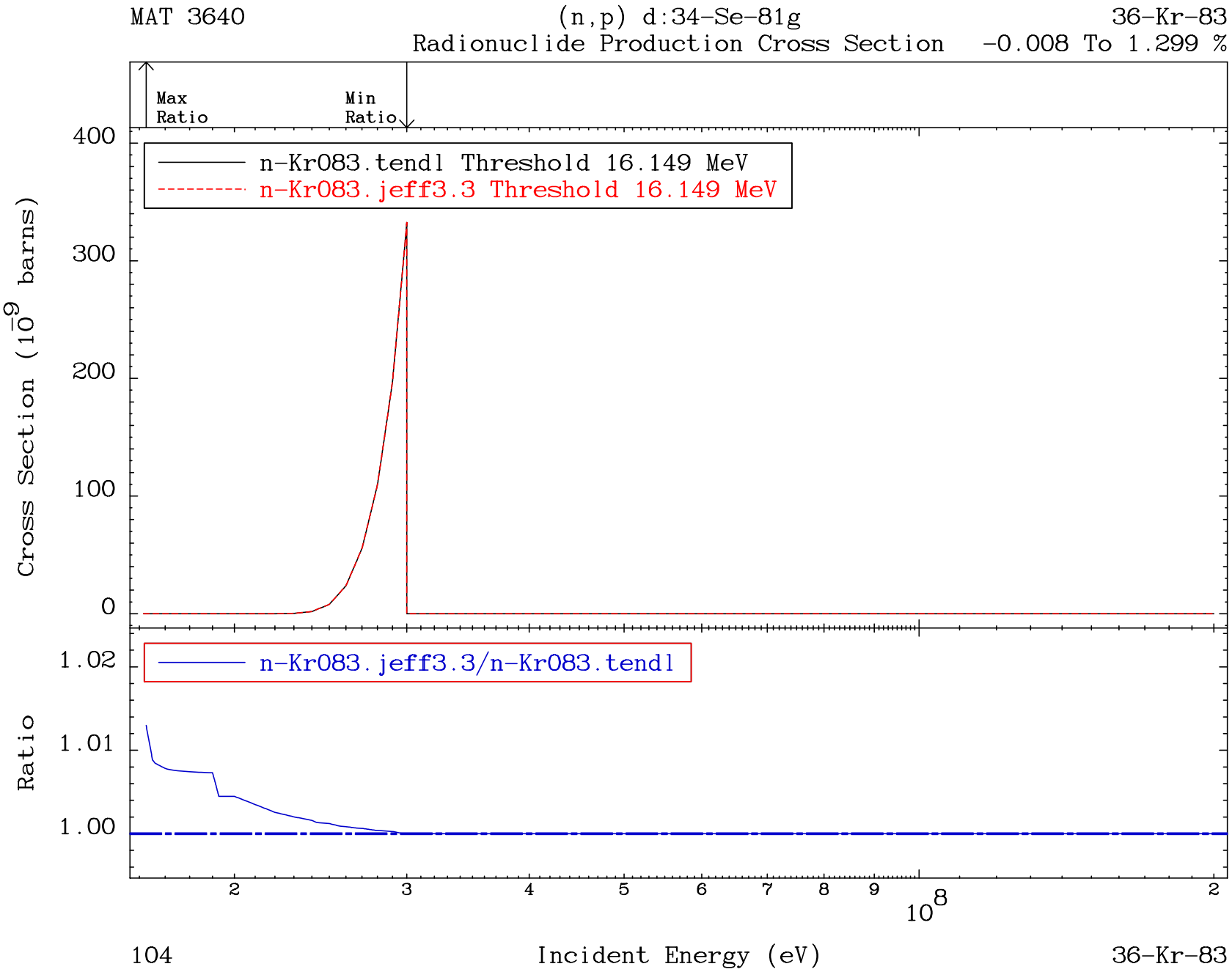

MAT 3640
(n,2n) p:34-Se-81m1
36-Kr-83
Radionuclide Production Cross Section
-2.869 To 0.403 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 18.505 MeV
n-Kr083.jeff3.3 Threshold 18.505 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
0.99
0.98
0.97
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
36-Kr-83

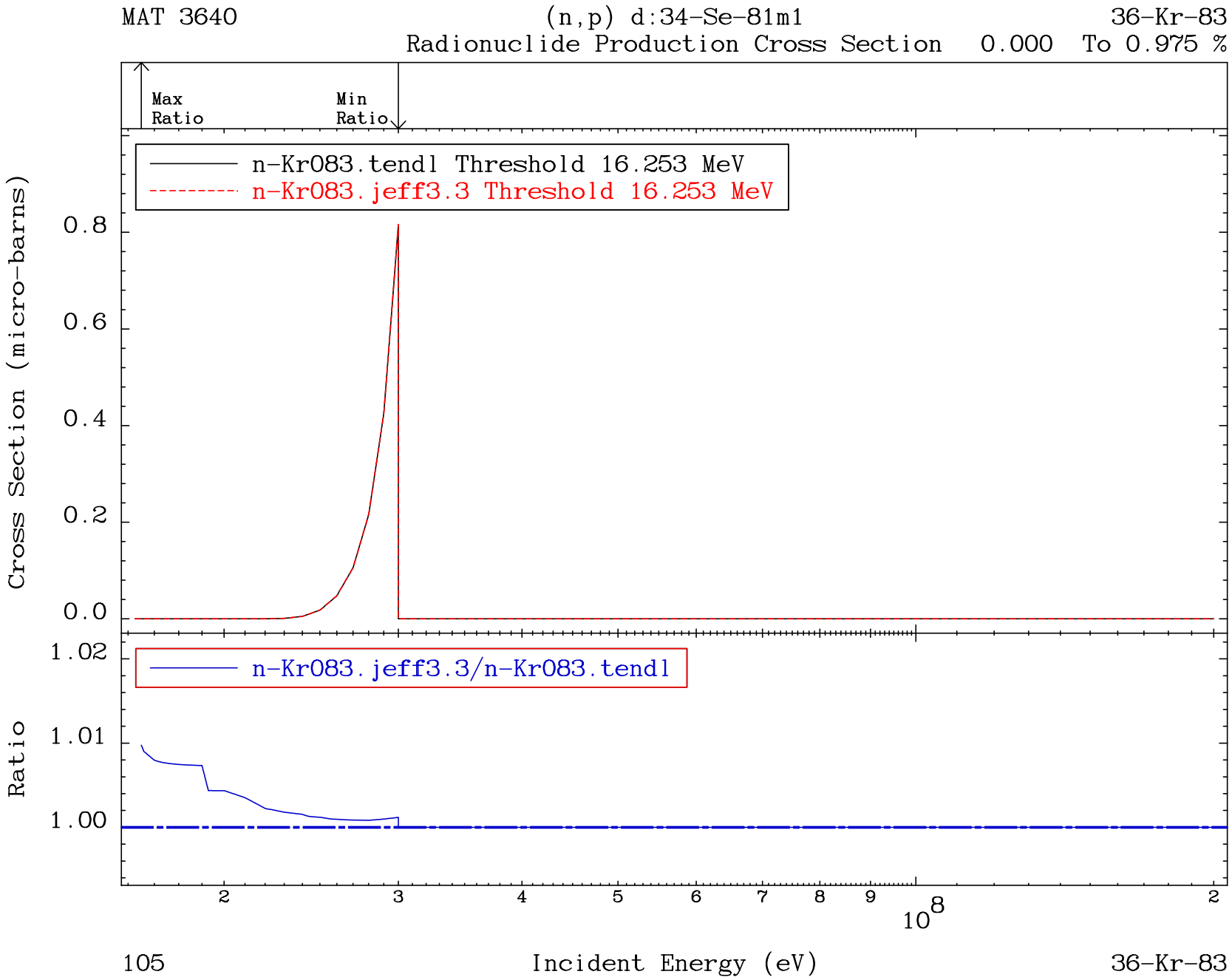

MAT 3640
(n,d):35-Br-82g
36-Kr-83
Radionuclide Production Cross Section -25.97 To 0.920 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 7.6483 MeV
n-Kr083.jeff3.3 Threshold 7.6491 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.0
0.9
0.8
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
100
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,d):35-Br-82m1
36-Kr-83
Radionuclide Production Cross Section -62.45 To 0.489 %
Min Ratio
Max Ratio
n-Kr083.tendl Threshold 7.6948 MeV
n-Kr083.jeff3.3 Threshold 7.6956 MeV
Cross Section (milli-barns)
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
Incident Energy (eV)
101
36-Kr-83


MAT 3640
(n,He-3):34-Se-81g
36-Kr-83
Radionuclide Production Cross Section 0.000 To 1.156 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 10.589 MeV
n-Kr083.jeff3.3 Threshold 10.589 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,He-3):34-Se-81m1
36-Kr-83
Radionuclide Production Cross Section 0.000 To 0.671 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 10.693 MeV
n-Kr083.jeff3.3 Threshold 10.693 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,p) d:34-Se-81g
36-Kr-83
Radionuclide Production Cross Section -0.008 To 1.299 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 16.149 MeV
n-Kr083.jeff3.3 Threshold 16.149 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
104
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,p) d:34-Se-81m1
36-Kr-83
Radionuclide Production Cross Section 0.000 To 0.975 %
Max Ratio
Min Ratio
n-Kr083.tendl Threshold 16.253 MeV
n-Kr083.jeff3.3 Threshold 16.253 MeV
Cross Section (micro-barns)
0.8
0.6
0.4
0.2
0.0
n-Kr083.jeff3.3/n-Kr083.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
105
Incident Energy (eV)
36-Kr-83