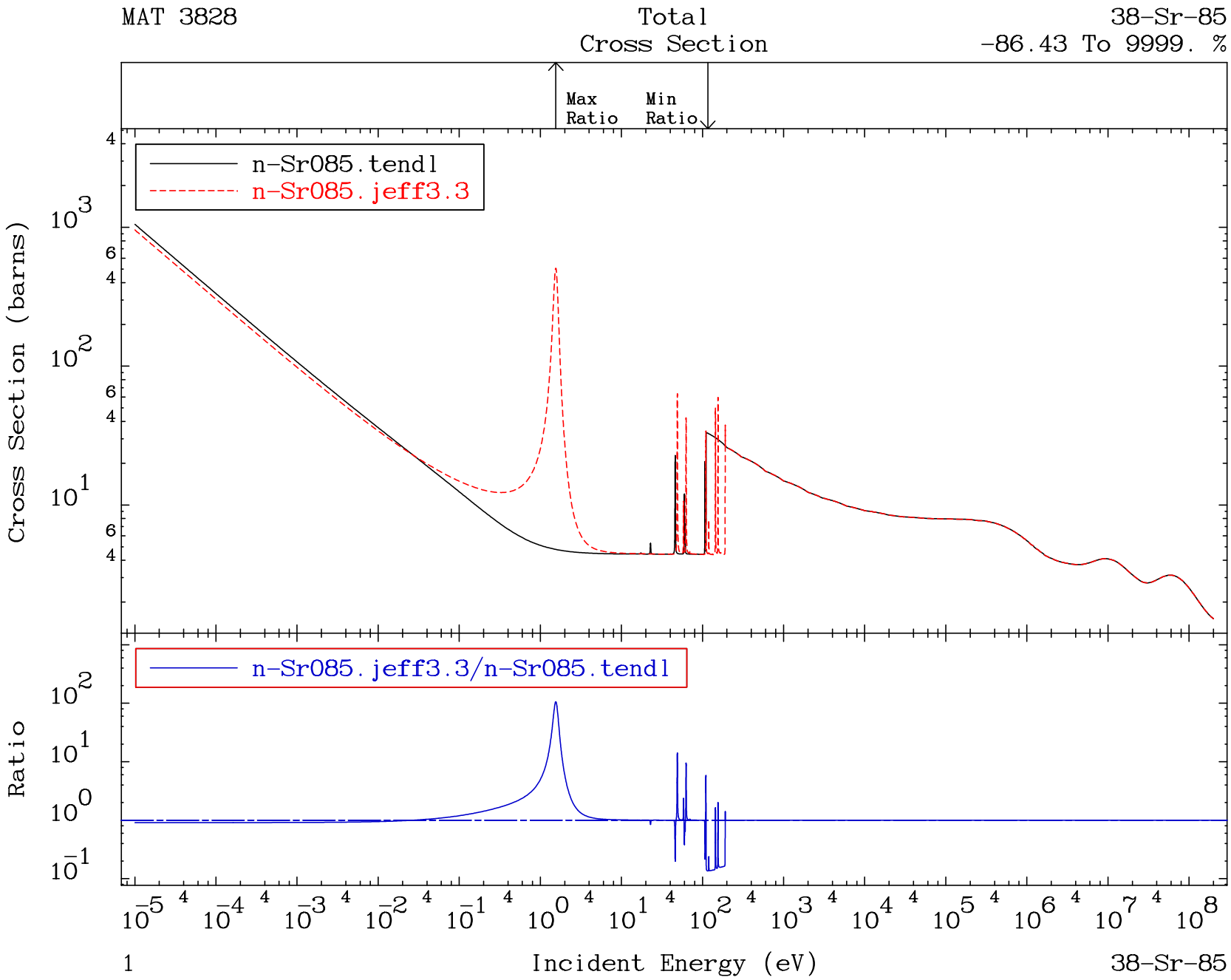
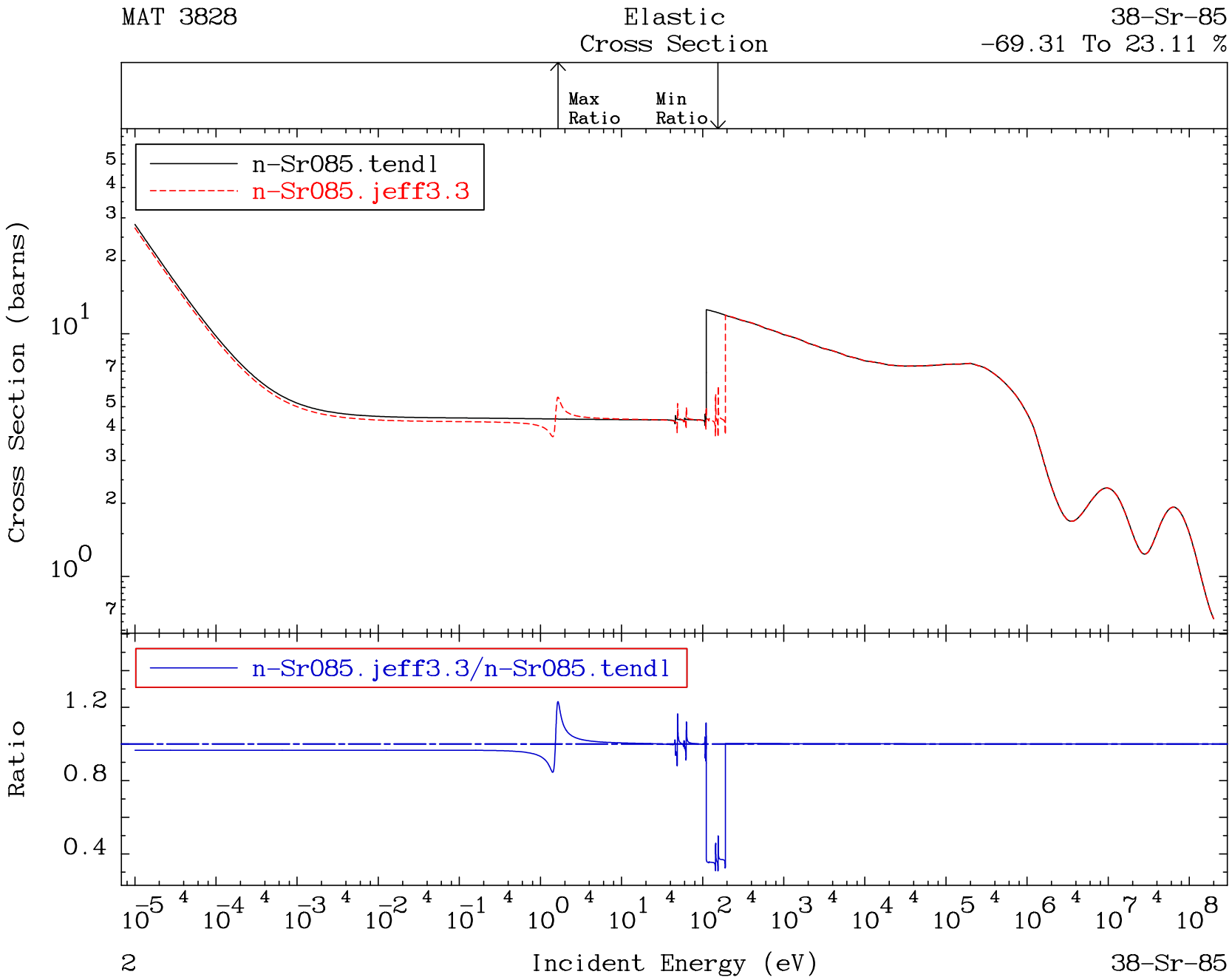
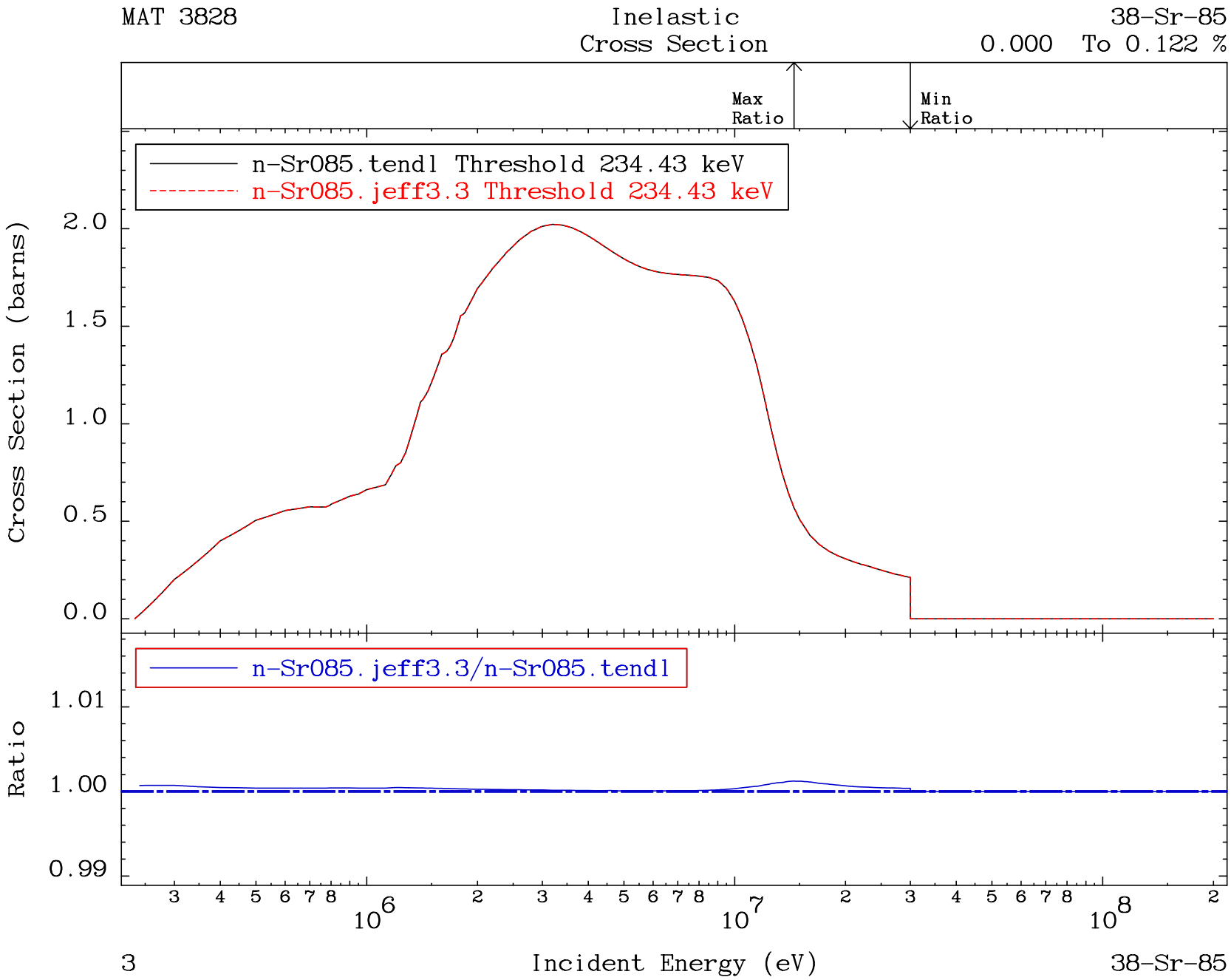
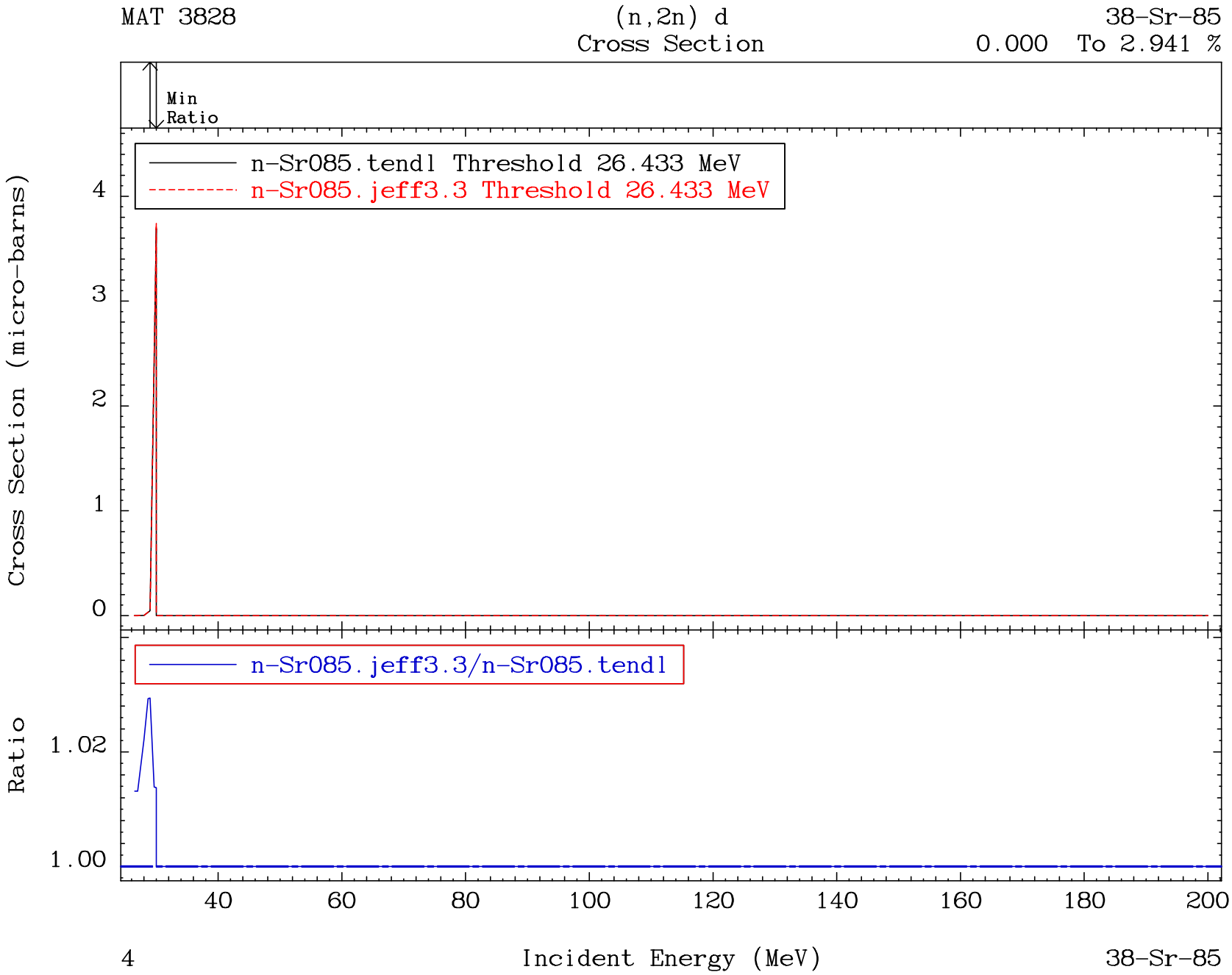
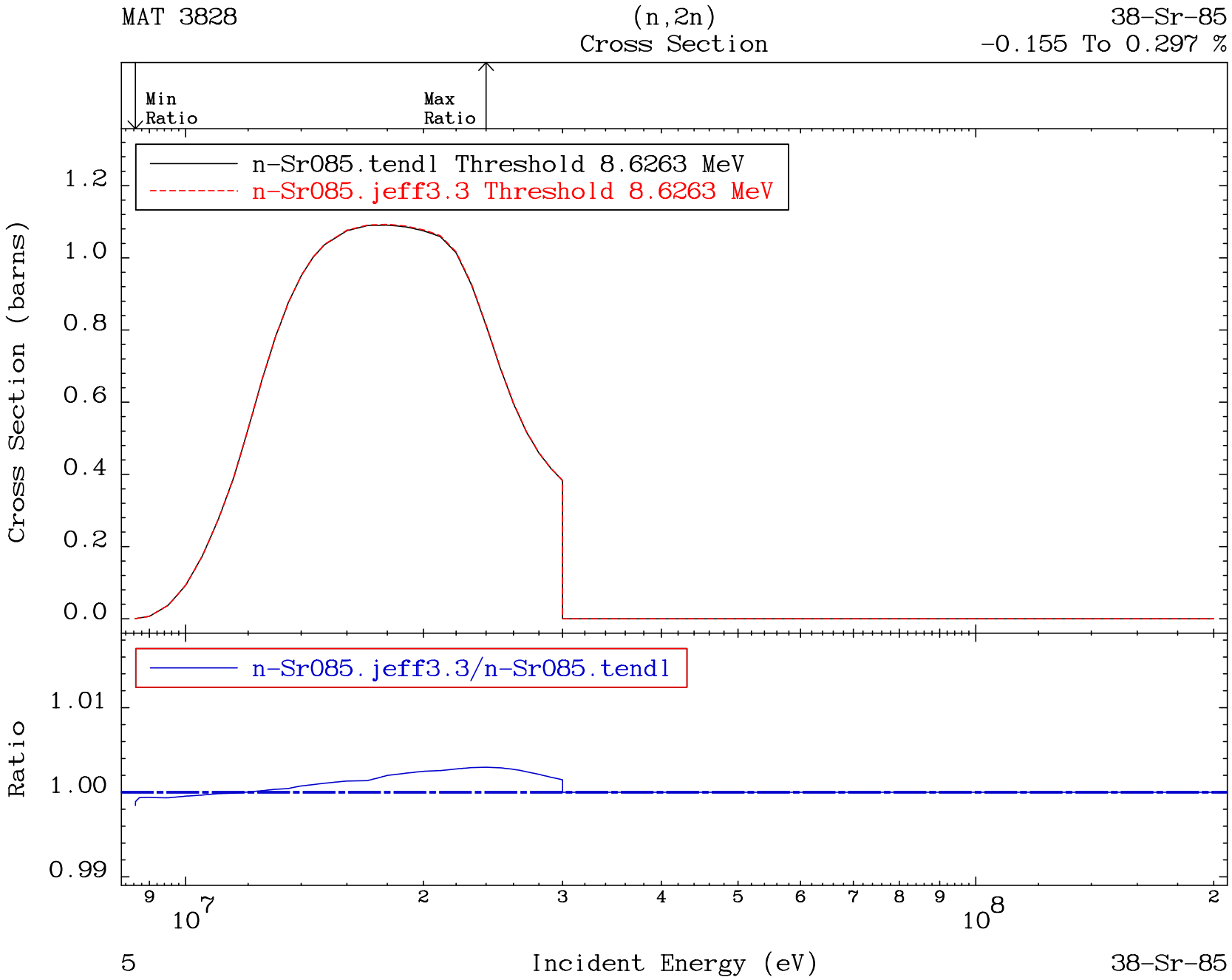
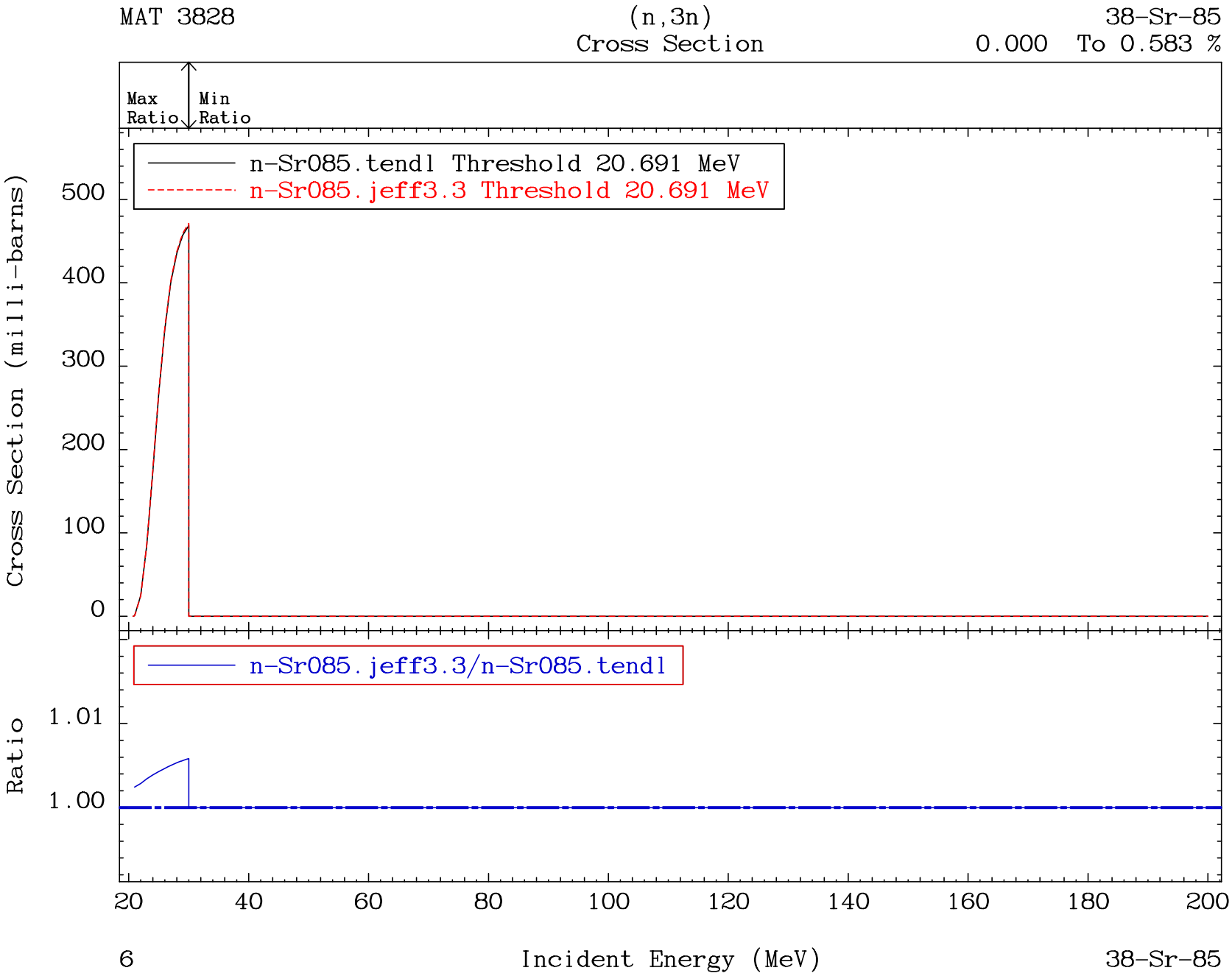

MAT 3828
Total
Cross Section
38-Sr-85
-86.43 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
1
38-Sr-85

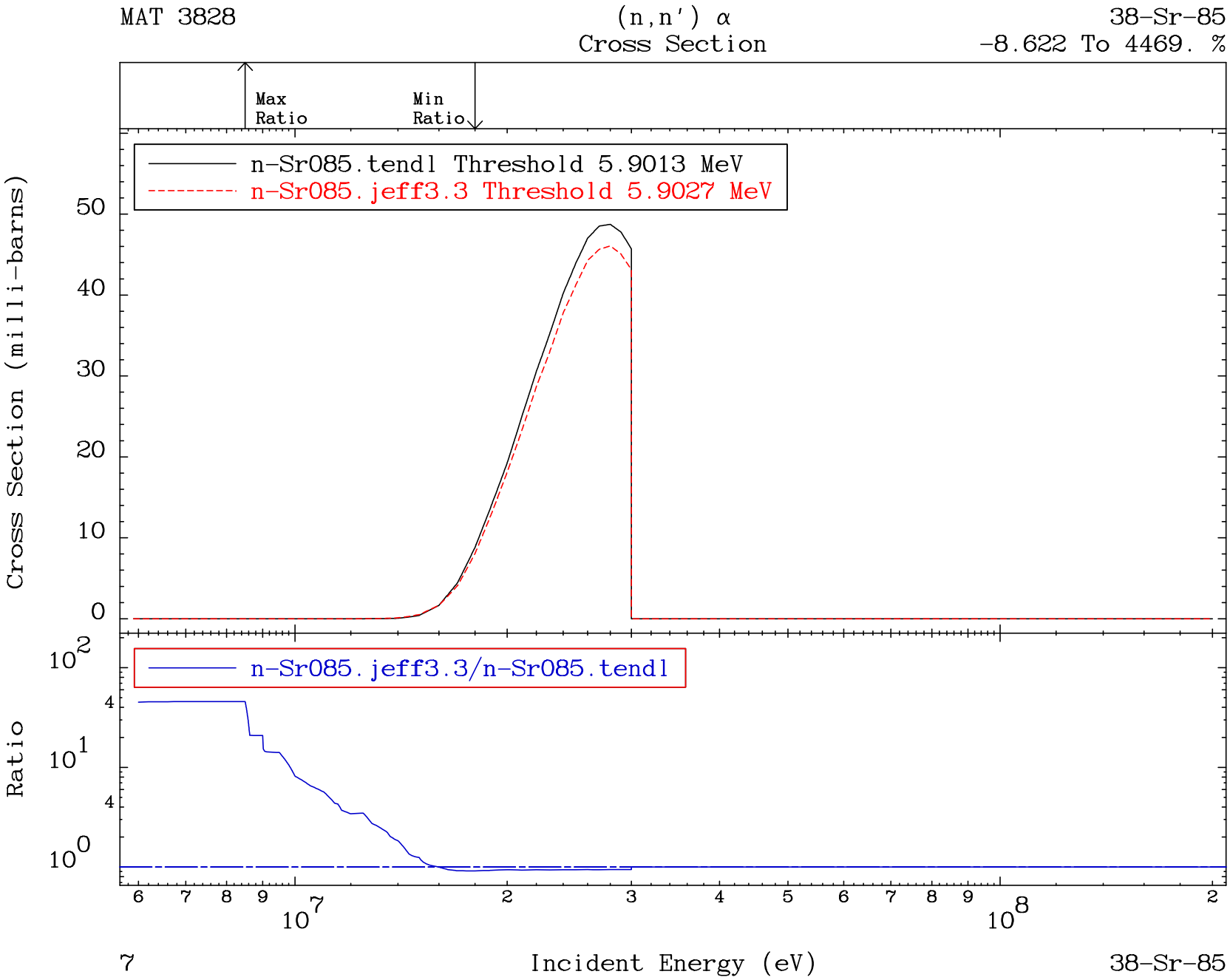

MAT 3828
Elastic
Cross Section
38-Sr-85
-69.31 To 23.11 %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
2
38-Sr-85

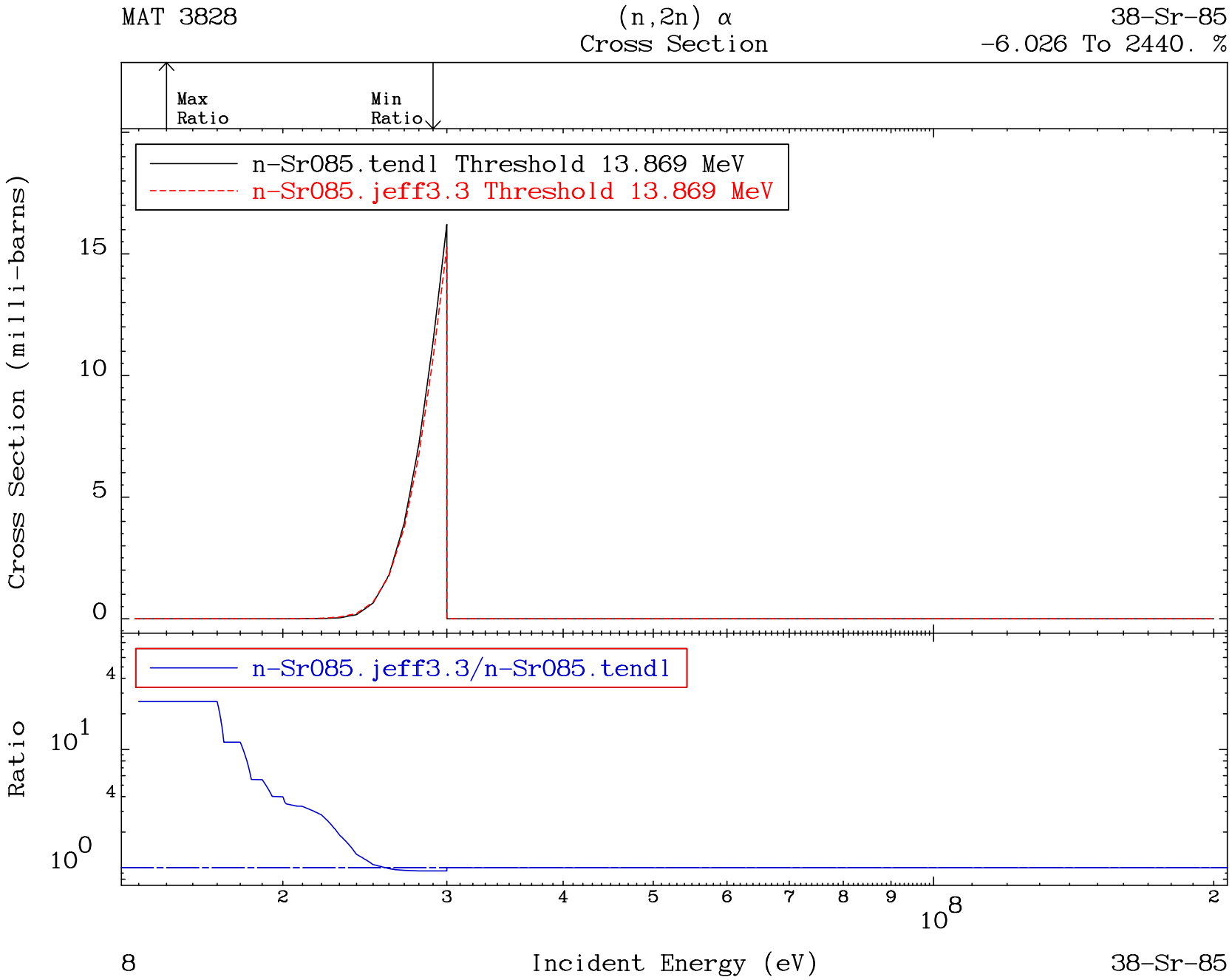

MAT 3828
Inelastic
Cross Section
38-Sr-85
0.000 To 0.122 %
Max
Ratio
Min
Ratio
n-Sr085.tendl Threshold 234.43 keV
n-Sr085.jeff3.3 Threshold 234.43 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
38-Sr-85

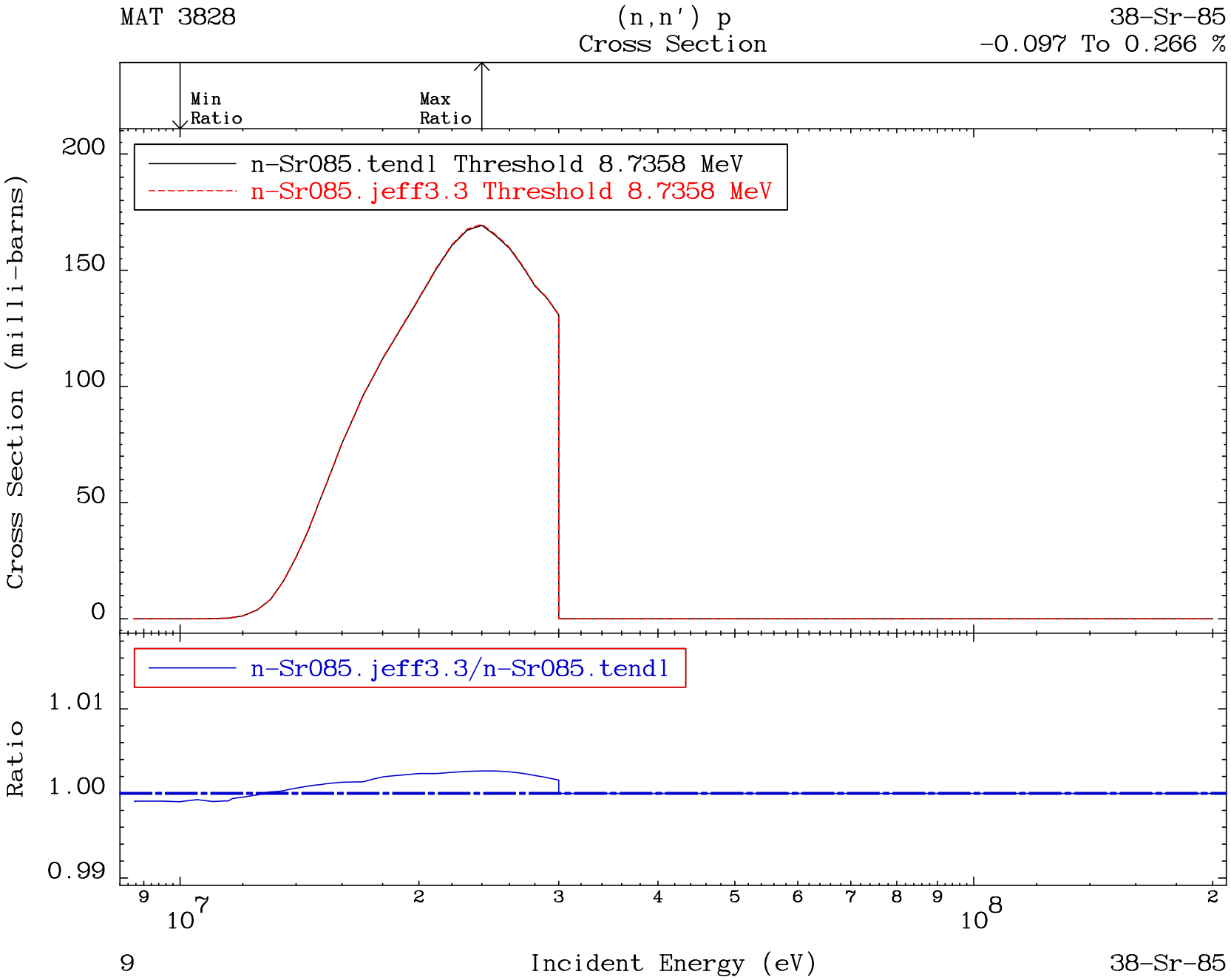

MAT 3828
(n,2n) d
Cross Section
38-Sr-85
0.000 To 2.941 %
Min
Ratio
n-Sr085.tendl Threshold 26.433 MeV
n-Sr085.jeff3.3 Threshold 26.433 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
1.02
40
60
80
100
120
140
160
180
200
Incident Energy (MeV)
4
38-Sr-85

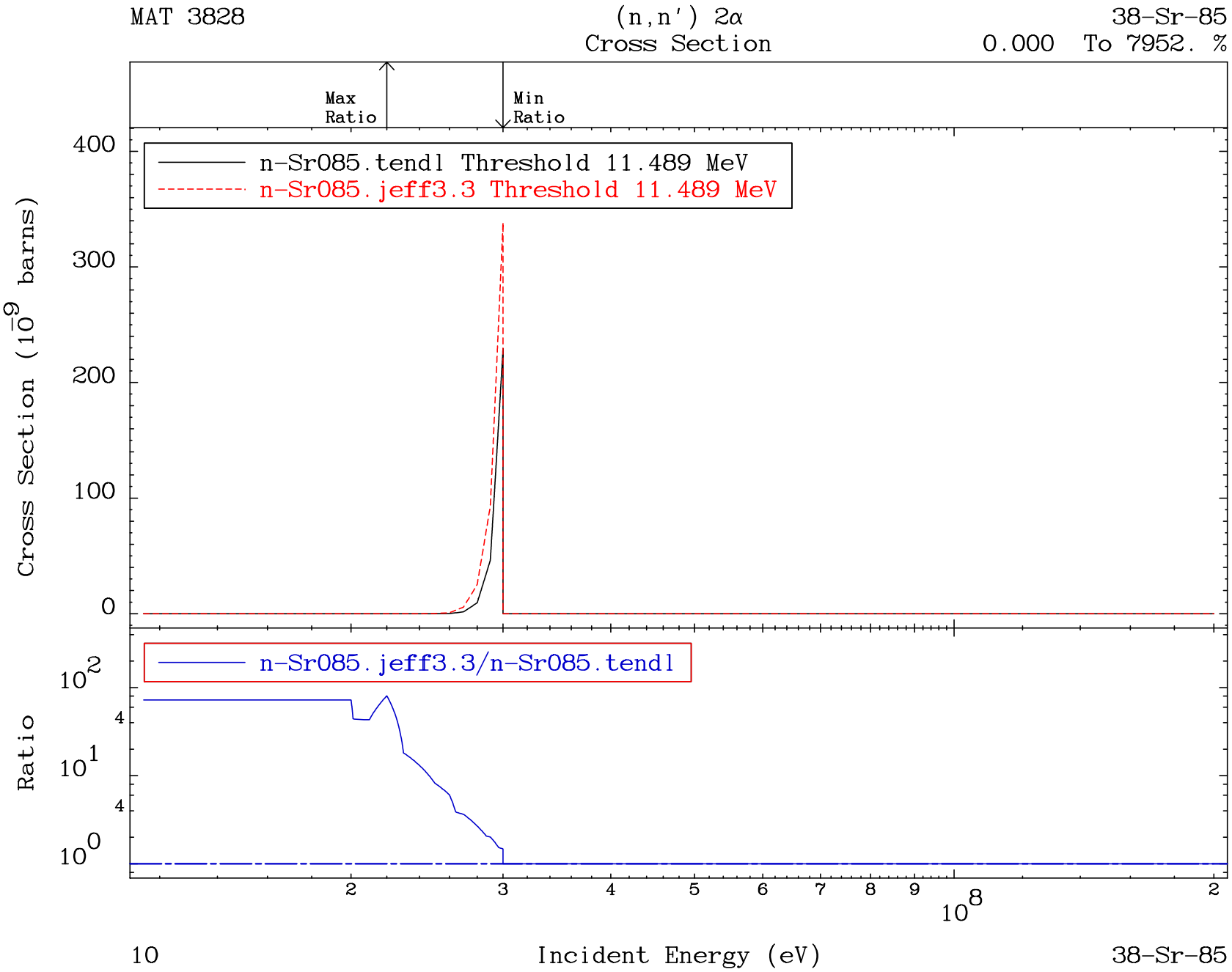

MAT 3828
(n,2n)
Cross Section
38-Sr-85
-0.155 To 0.297 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.6263 MeV
n-Sr085.jeff3.3 Threshold 8.6263 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
38-Sr-85

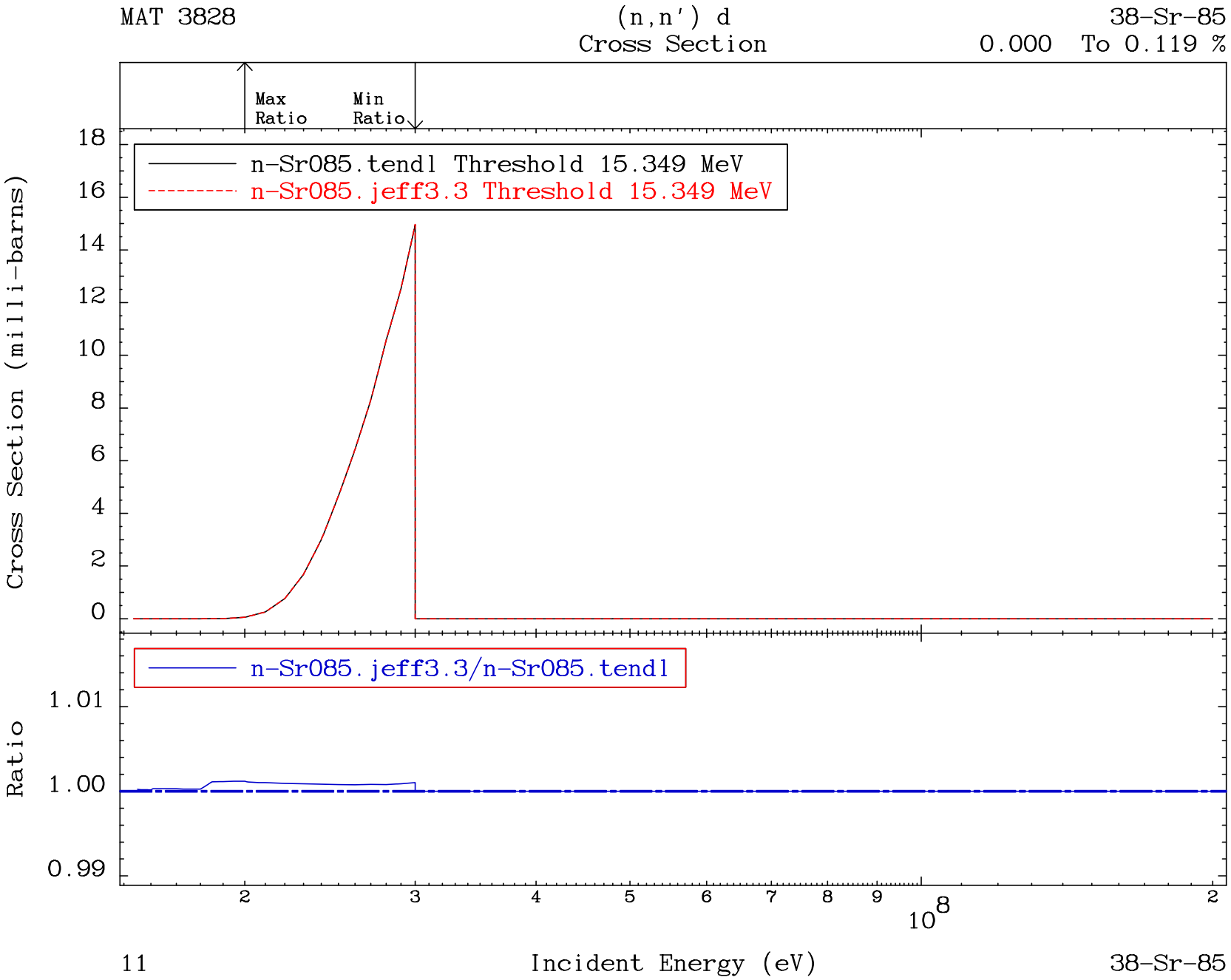

MAT 3828
(n,3n)
Cross Section
38-Sr-85
0.000 To 0.583 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 20.691 MeV
n-Sr085.jeff3.3 Threshold 20.691 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
20
40
60
80
100
120
140
160
180
200
6
Incident Energy (MeV)
38-Sr-85

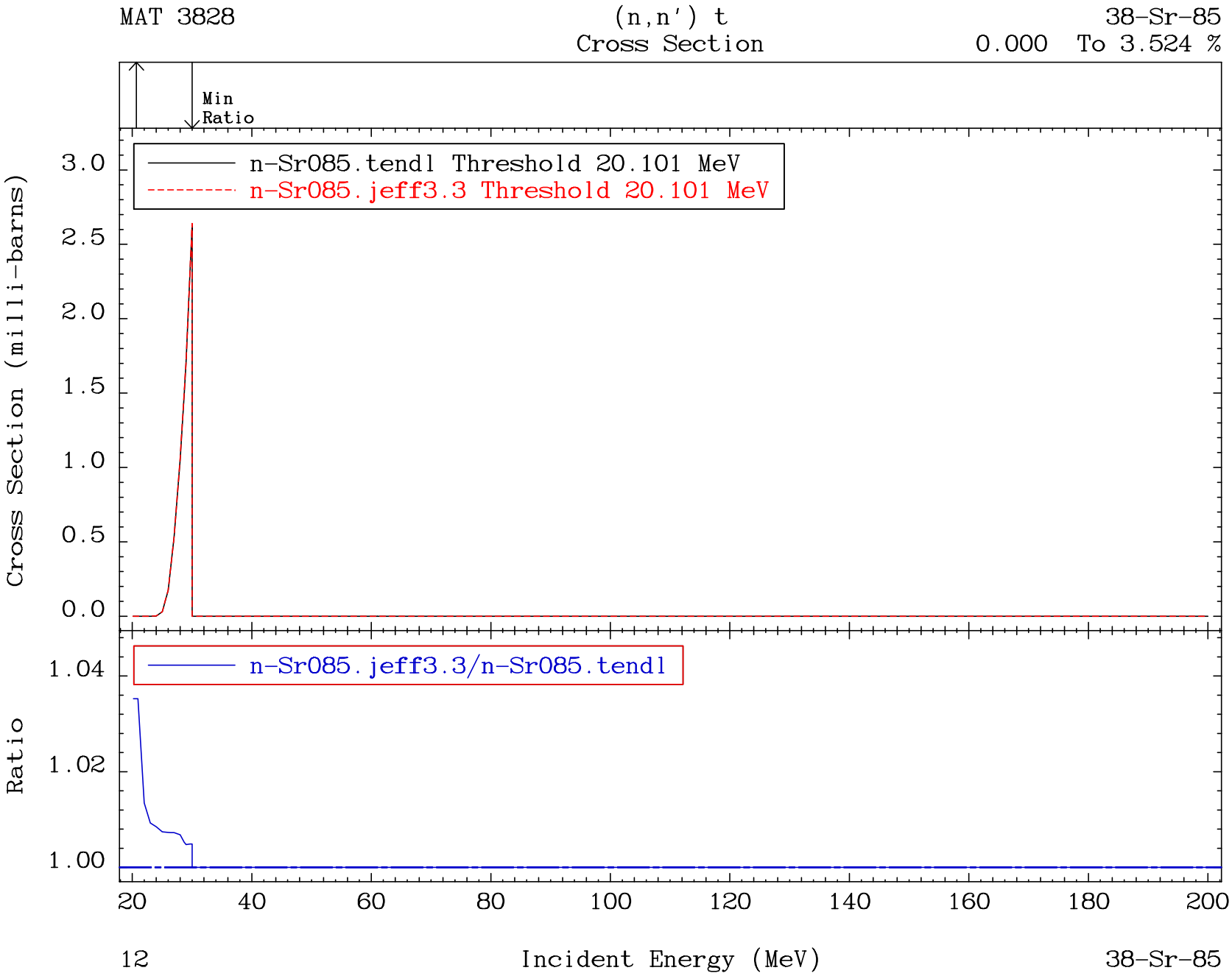

MAT 3828
(n,n') α
Cross Section
38-Sr-85
-8.622 To 4469. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 5.9013 MeV
n-Sr085.jeff3.3 Threshold 5.9027 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^2
4
10^1
4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
38-Sr-85

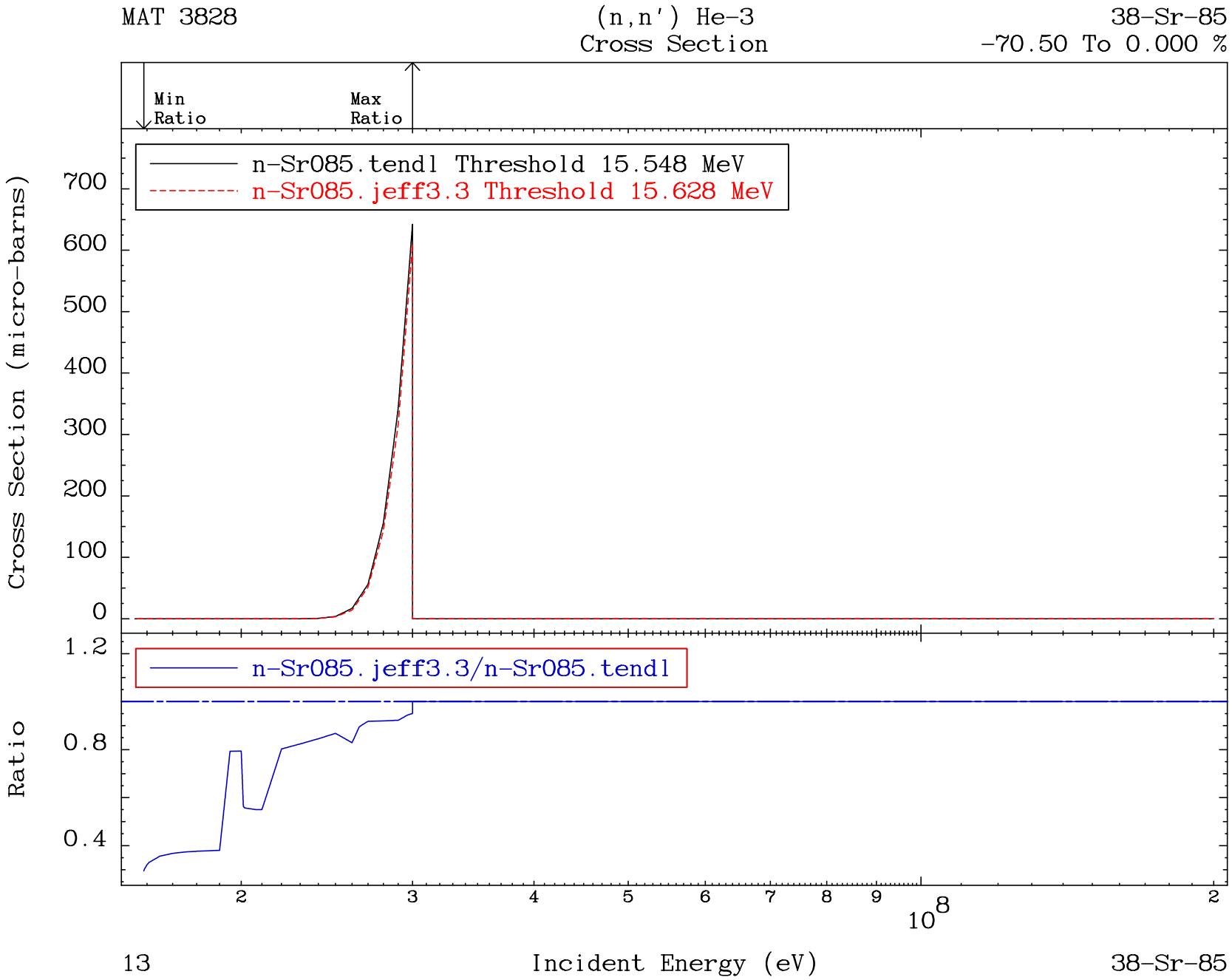

MAT 3828
(n,2n) α
Cross Section
38-Sr-85
-6.026 To 2440. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 13.869 MeV
n-Sr085.jeff3.3 Threshold 13.869 MeV
Cross Section (milli-barns)
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
38-Sr-85

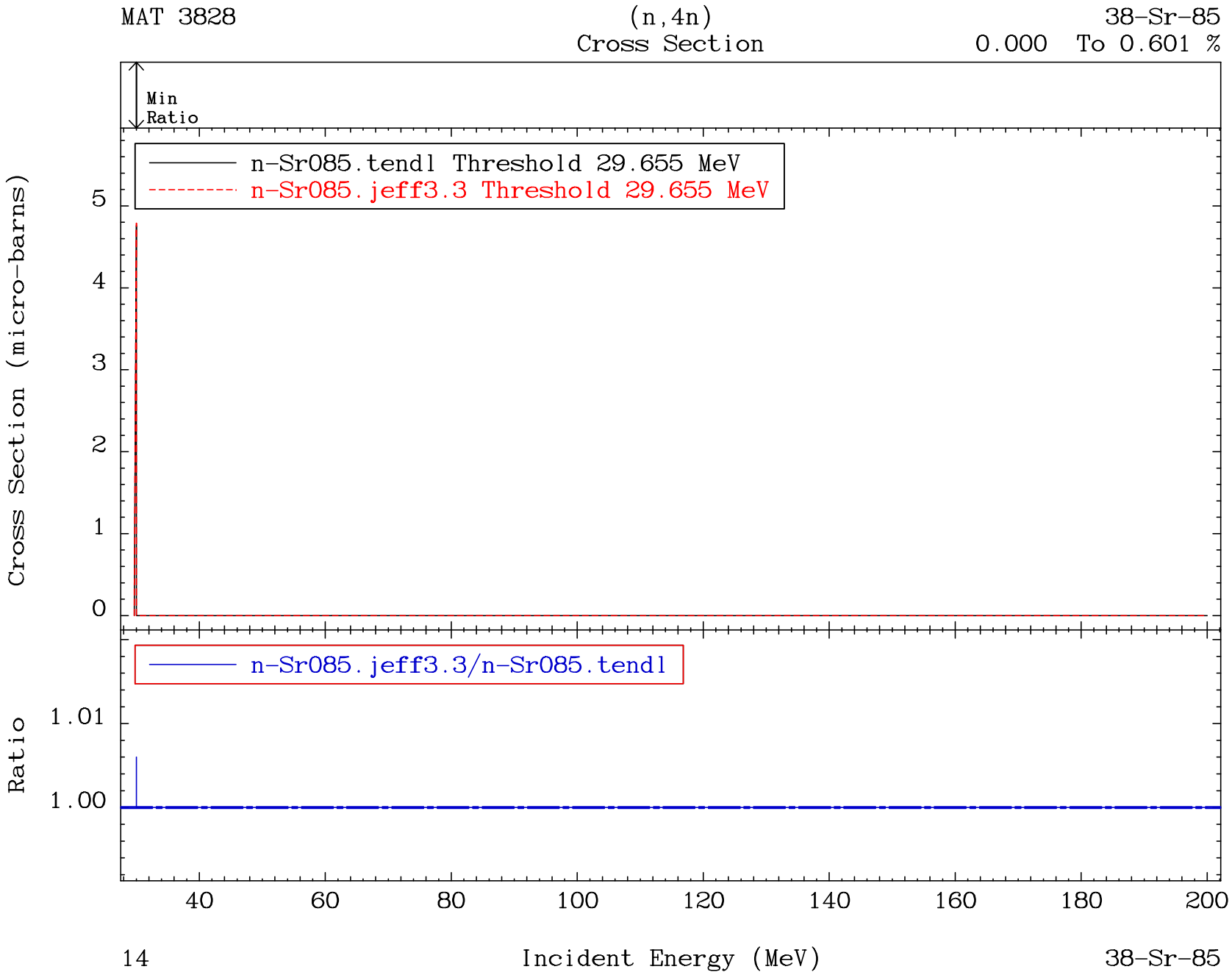

MAT 3828
(n,n') p
Cross Section
38-Sr-85
-0.097 To 0.266 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.7358 MeV
n-Sr085.jeff3.3 Threshold 8.7358 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
38-Sr-85

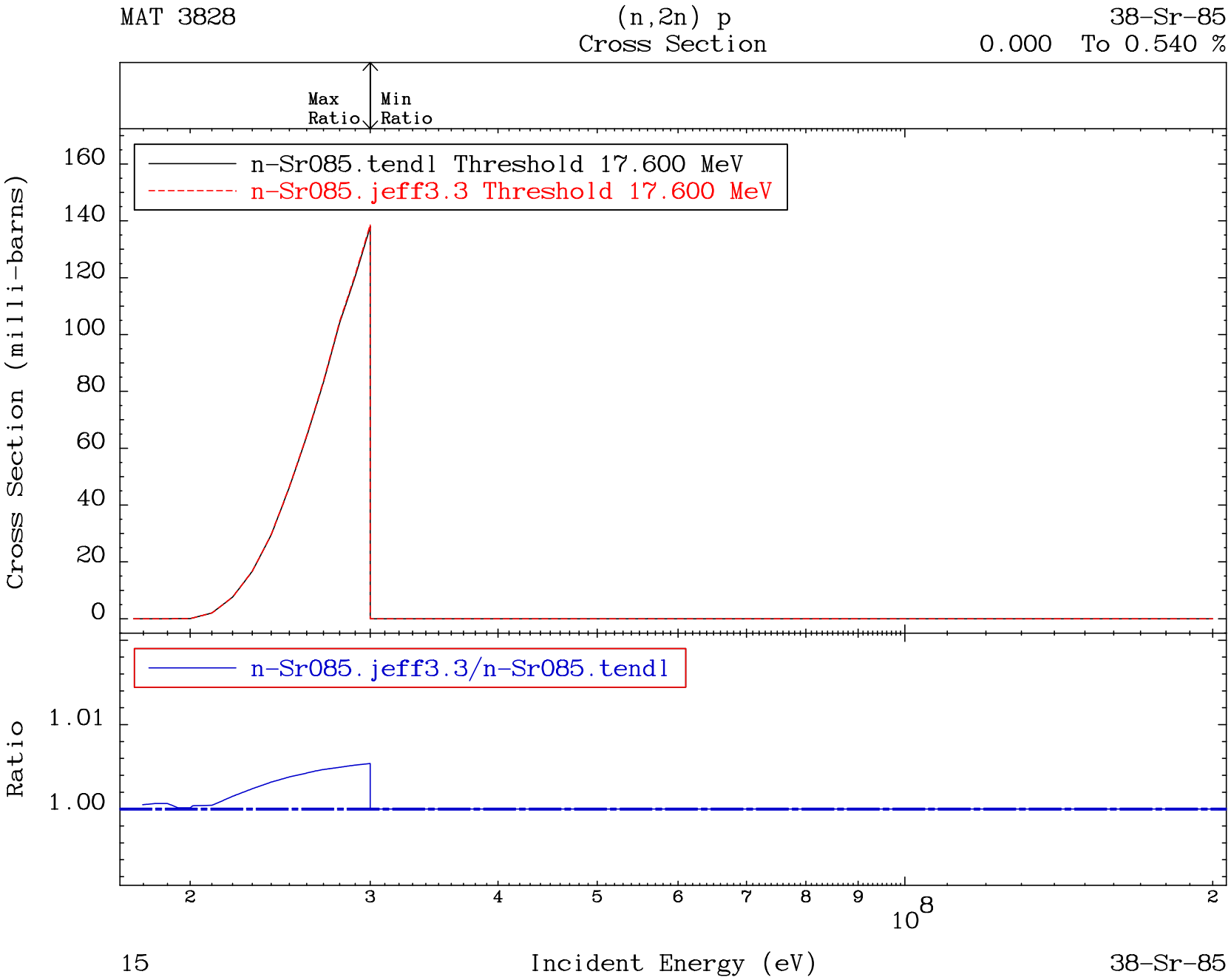

MAT 3828
(n,n') 2α
Cross Section
38-Sr-85
0.000 To 7952. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 11.489 MeV
n-Sr085.jeff3.3 Threshold 11.489 MeV
Cross Section (10^-9 barns)
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^2
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
38-Sr-85

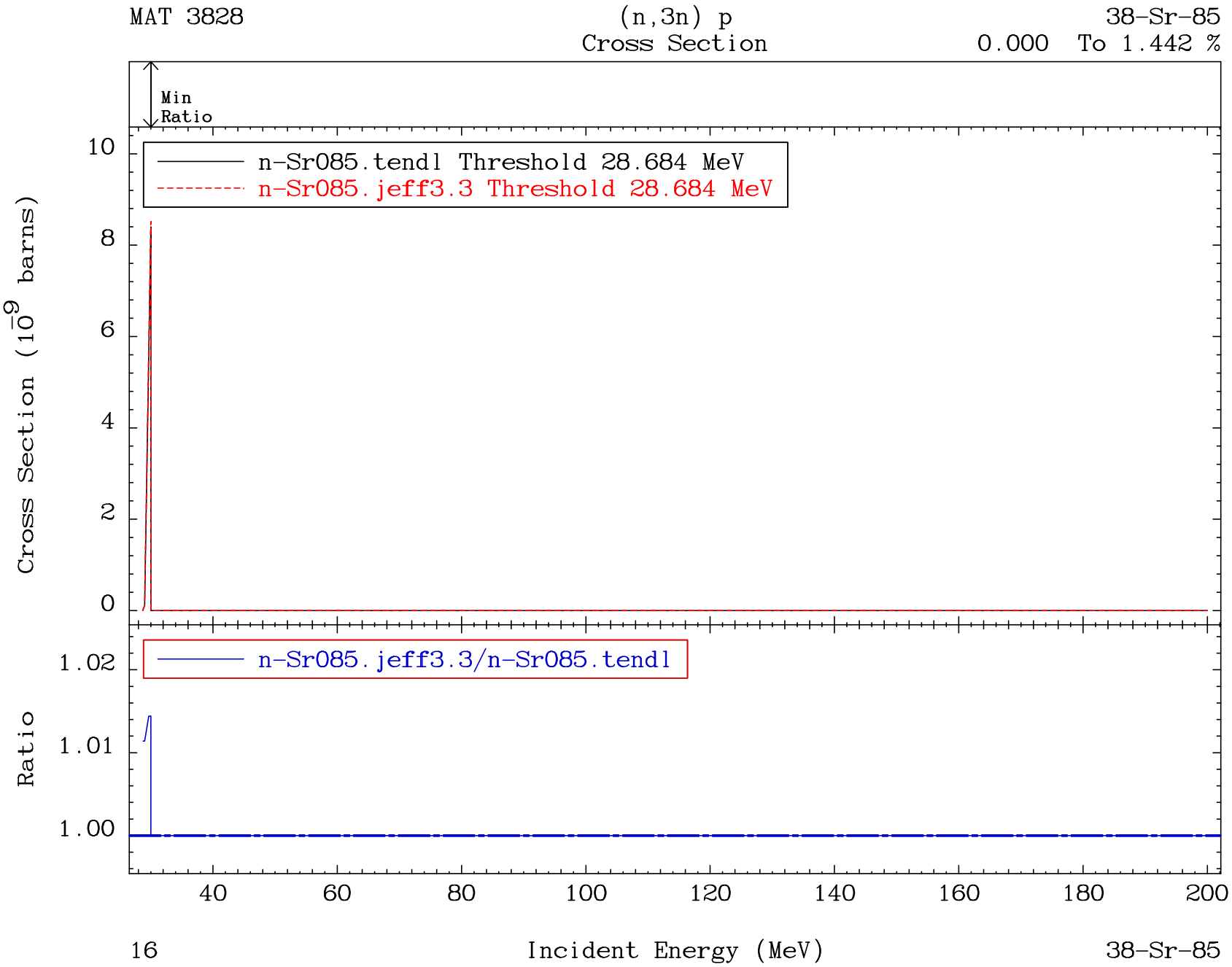

MAT 3828
(n,n') d
Cross Section
38-Sr-85
0.000 To 0.119 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 15.349 MeV
n-Sr085.jeff3.3 Threshold 15.349 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
38-Sr-85

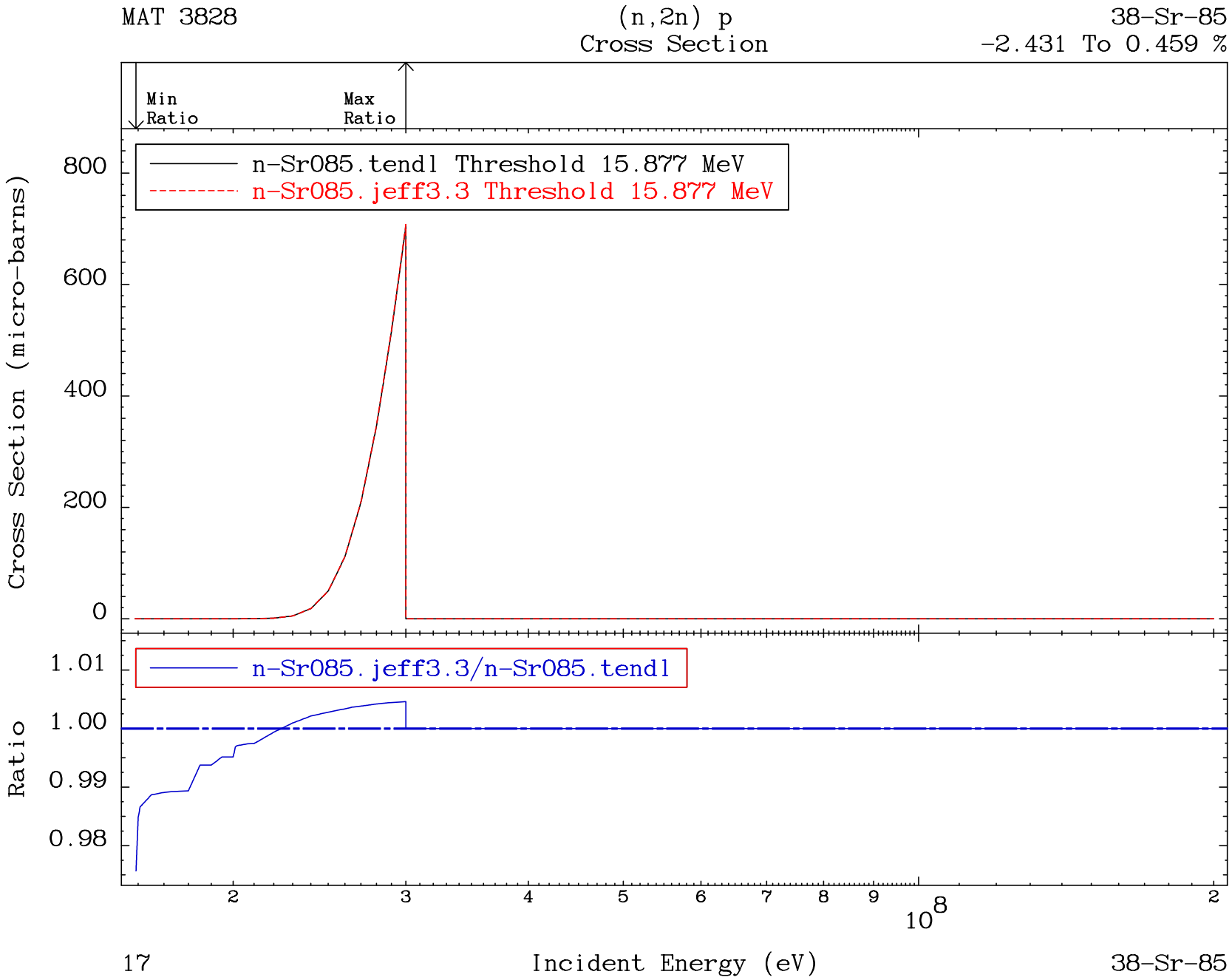

MAT 3828
(n,n') t
Cross Section
38-Sr-85
0.000 To 3.524 %
Min
Ratio
n-Sr085.tendl Threshold 20.101 MeV
n-Sr085.jeff3.3 Threshold 20.101 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.04
1.02
1.00
20
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
38-Sr-85

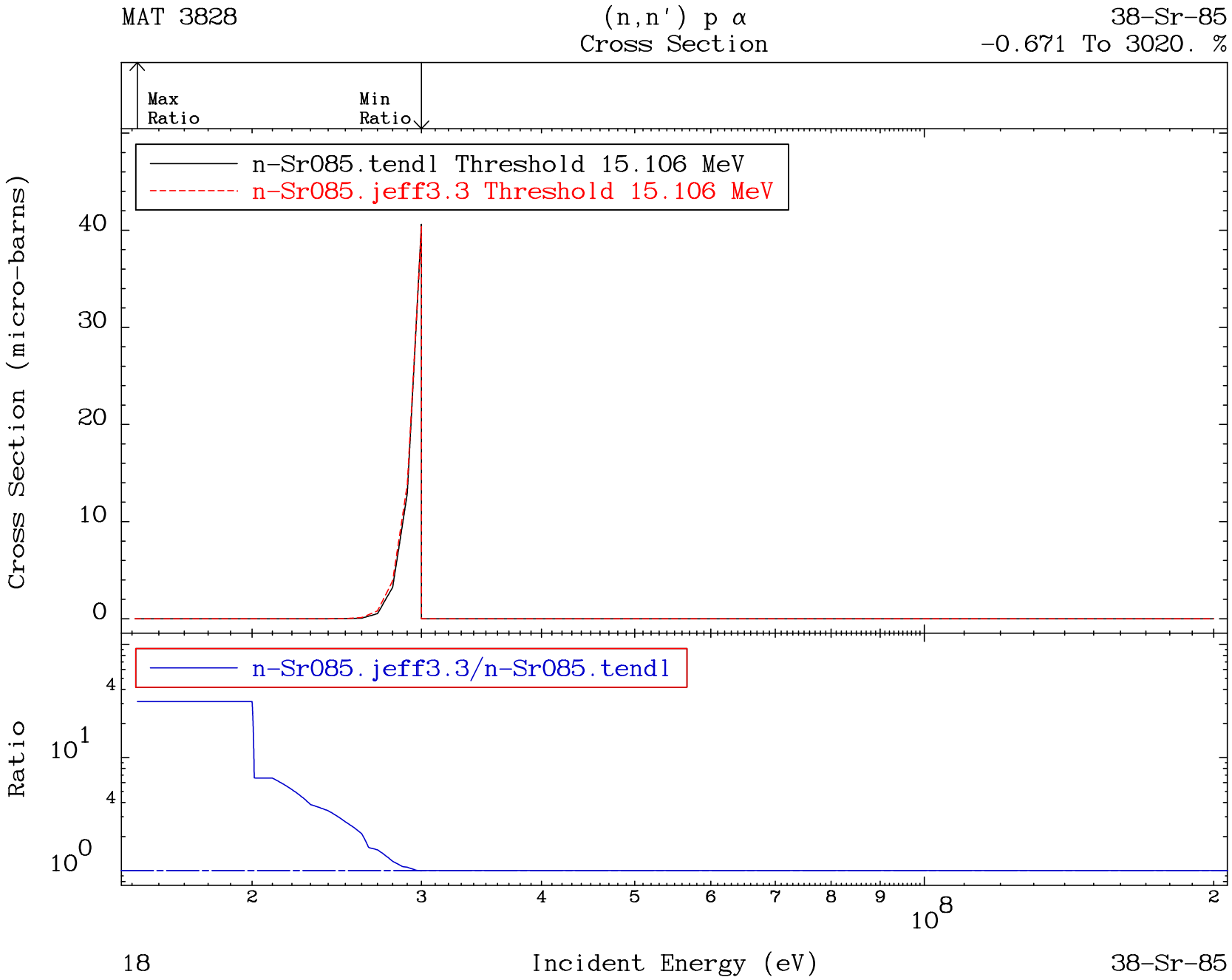

MAT 3828
(n,n') He-3
Cross Section
38-Sr-85
-70.50 To 0.000 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 15.548 MeV
n-Sr085.jeff3.3 Threshold 15.628 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
38-Sr-85

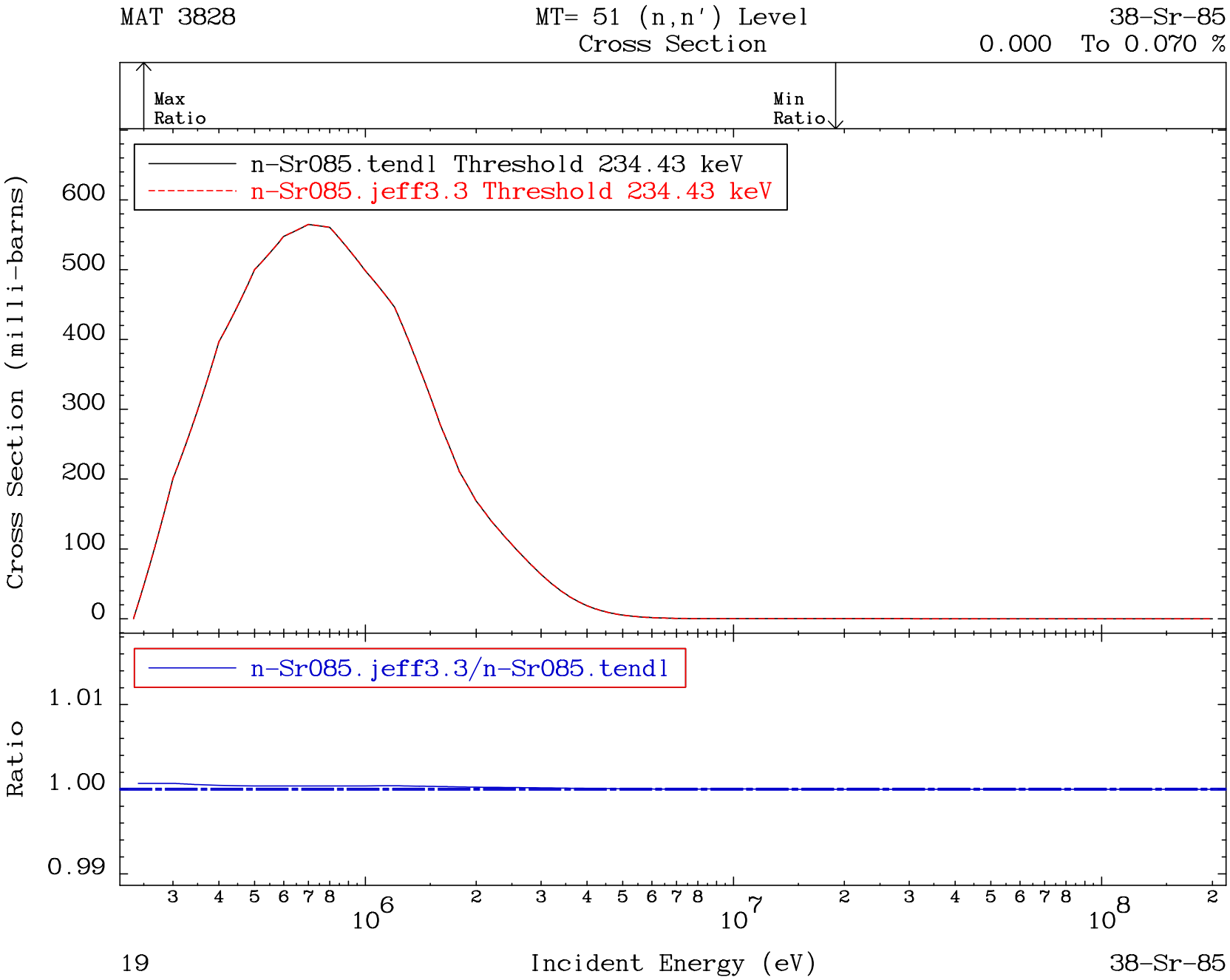

MAT 3828
(n,4n)
Cross Section
38-Sr-85
0.000 To 0.601 %
Min
Ratio
n-Sr085.tendl Threshold 29.655 MeV
n-Sr085.jeff3.3 Threshold 29.655 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
1.01
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
38-Sr-85

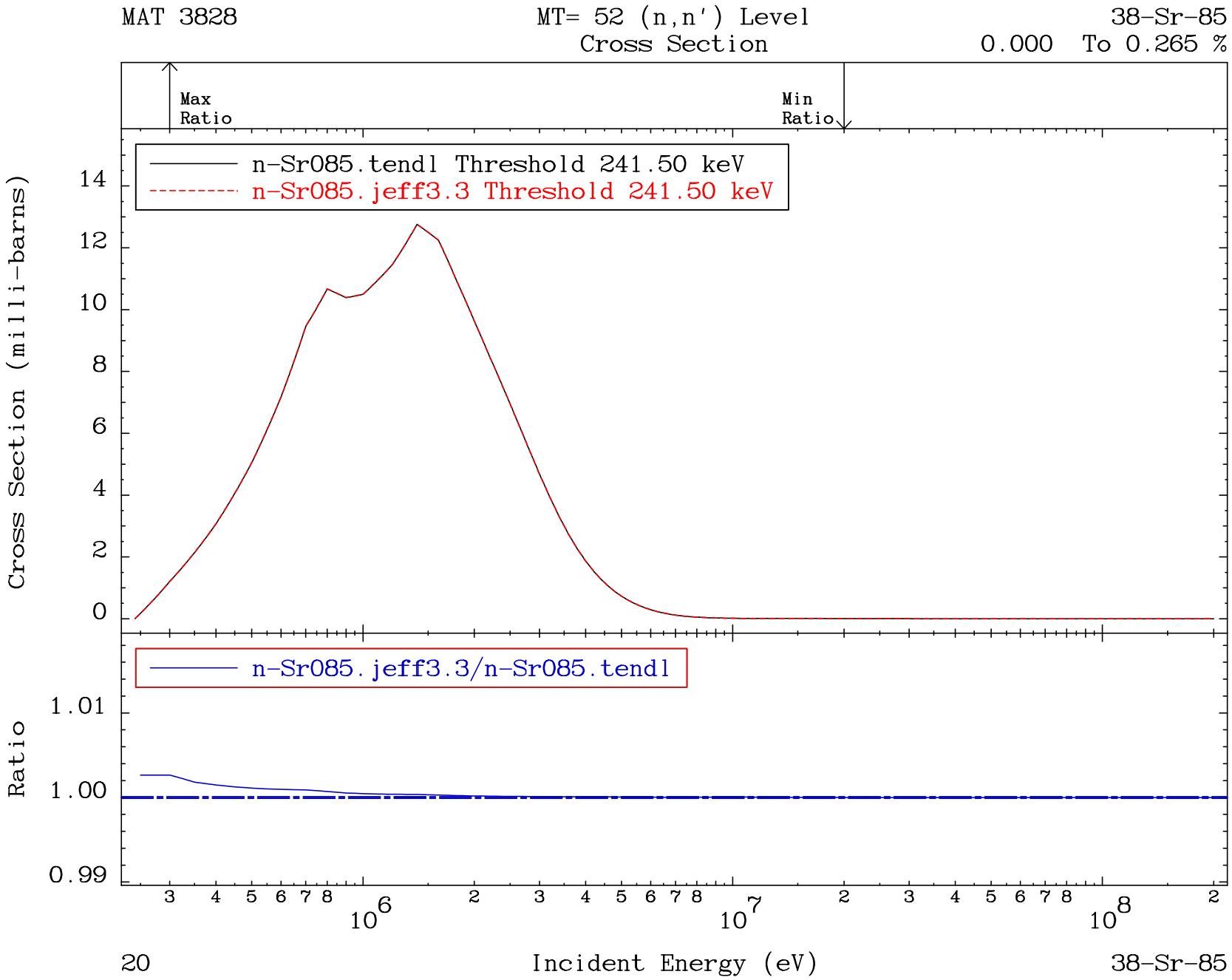

MAT 3828
(n,2n) p
Cross Section
38-Sr-85
0.000 To 0.540 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 17.600 MeV
n-Sr085.jeff3.3 Threshold 17.600 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
38-Sr-85

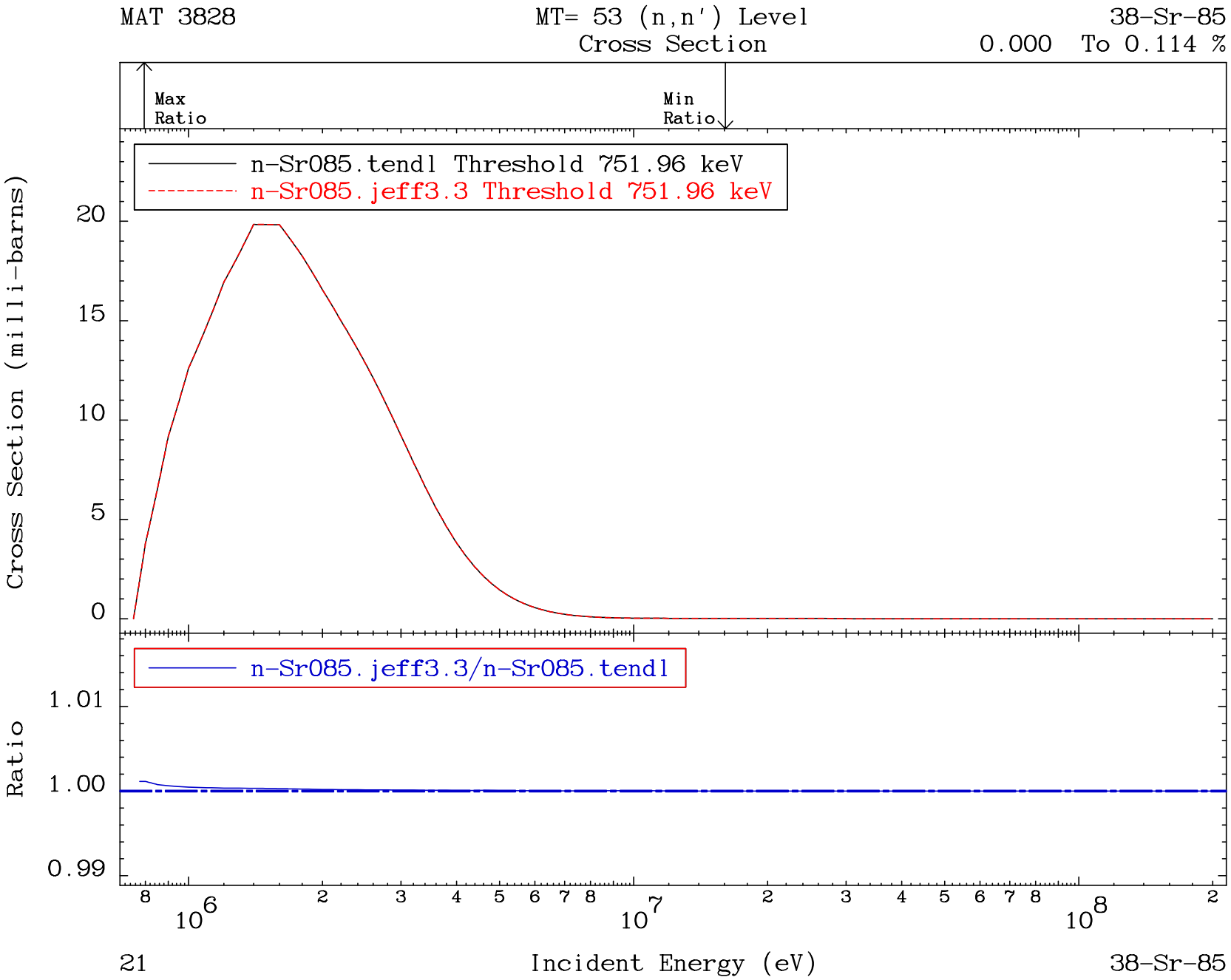

MAT 3828
(n,3n) p
Cross Section
38-Sr-85
0.000 To 1.442 %
Min
Ratio
n-Sr085.tendl Threshold 28.684 MeV
n-Sr085.jeff3.3 Threshold 28.684 MeV
Cross Section (10^-9 barns)
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
38-Sr-85

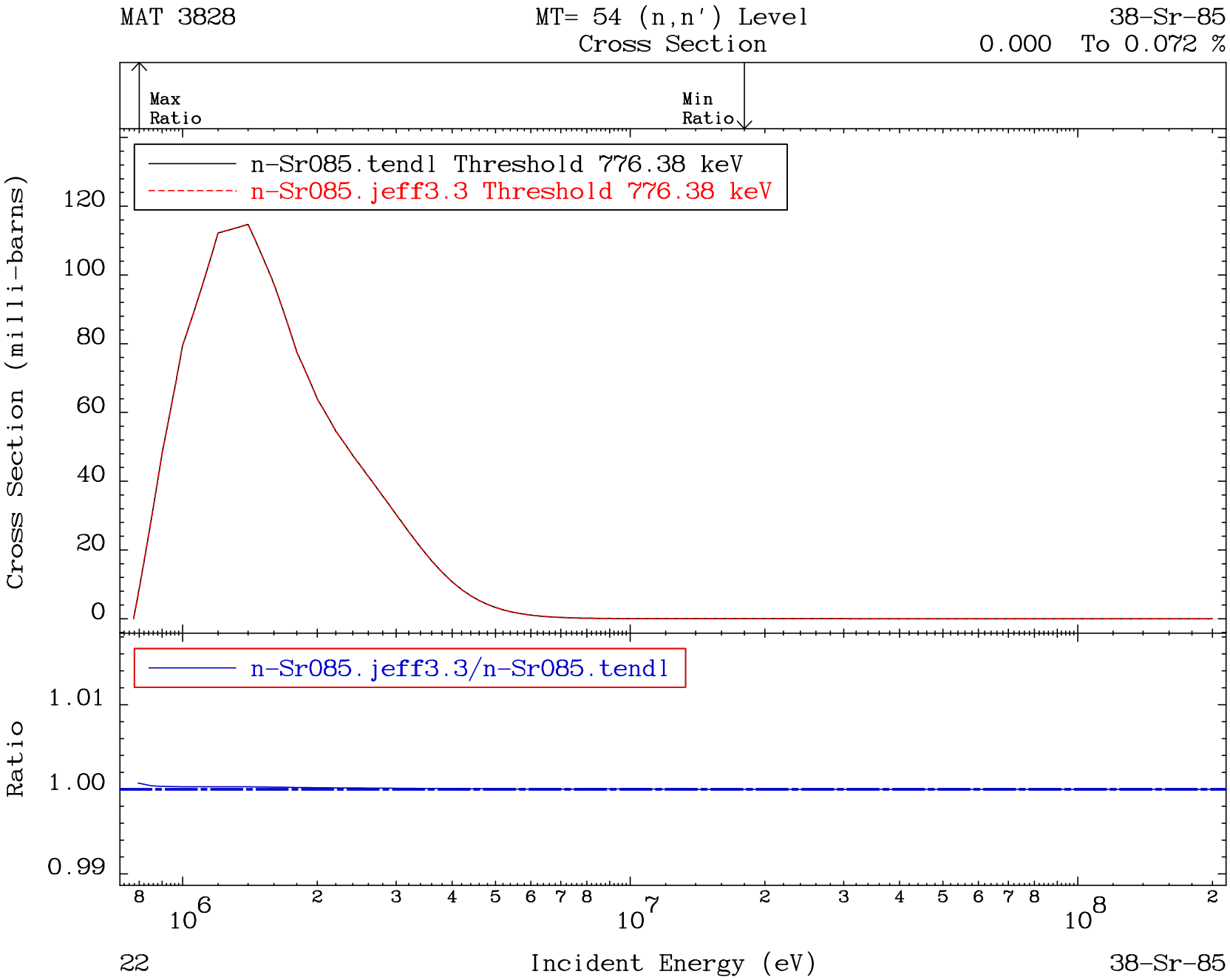

MAT 3828
(n,2n) p
Cross Section
38-Sr-85
-2.431 To 0.459 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 15.877 MeV
n-Sr085.jeff3.3 Threshold 15.877 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
38-Sr-85

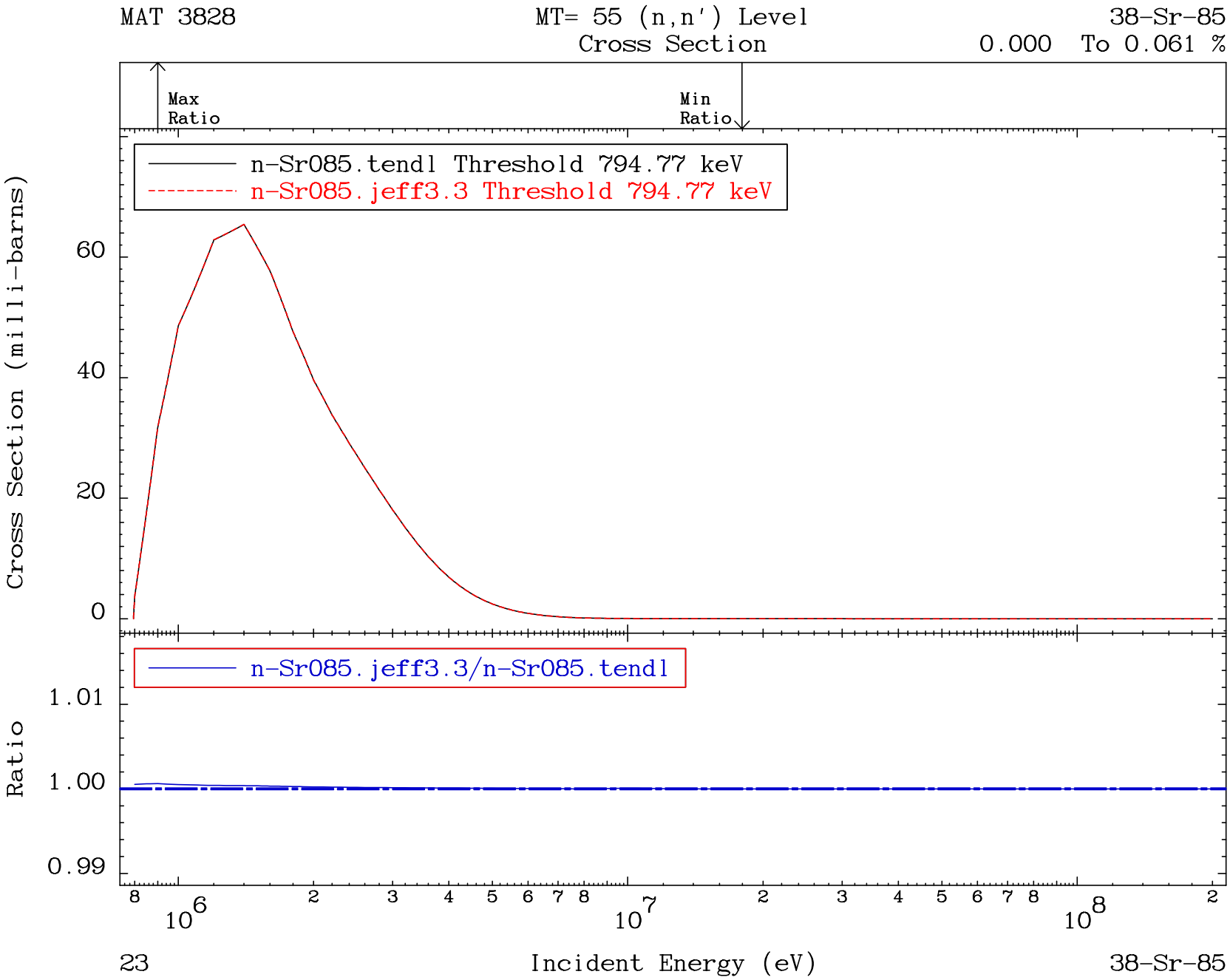

MAT 3828
(n,n') p α
Cross Section
38-Sr-85
-0.671 To 3020. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 15.106 MeV
n-Sr085.jeff3.3 Threshold 15.106 MeV
Cross Section (micro-barns)
40
30
20
10
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
38-Sr-85

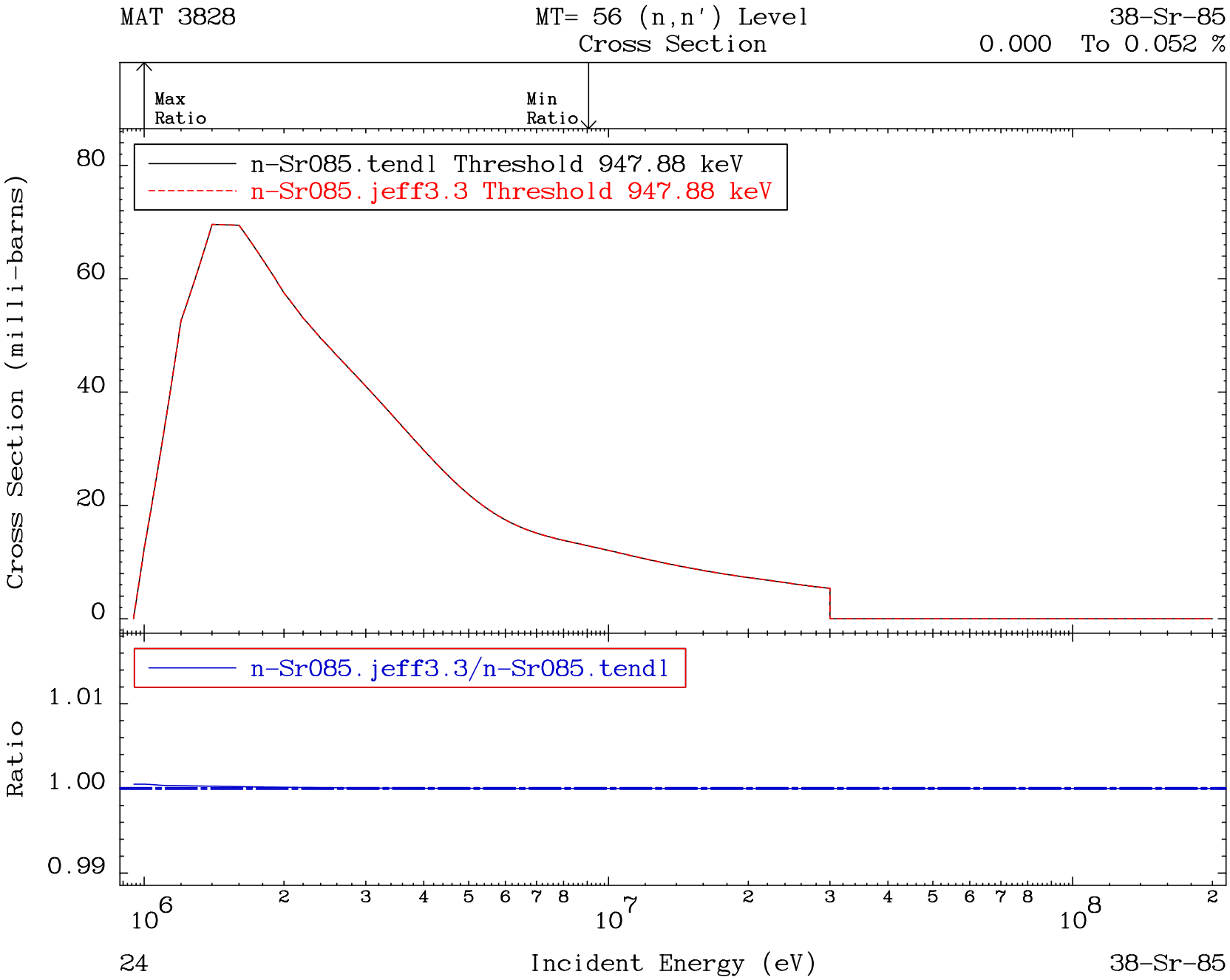

MAT 3828
MT= 51 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.070 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 234.43 keV
n-Sr085.jeff3.3 Threshold 234.43 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
38-Sr-85

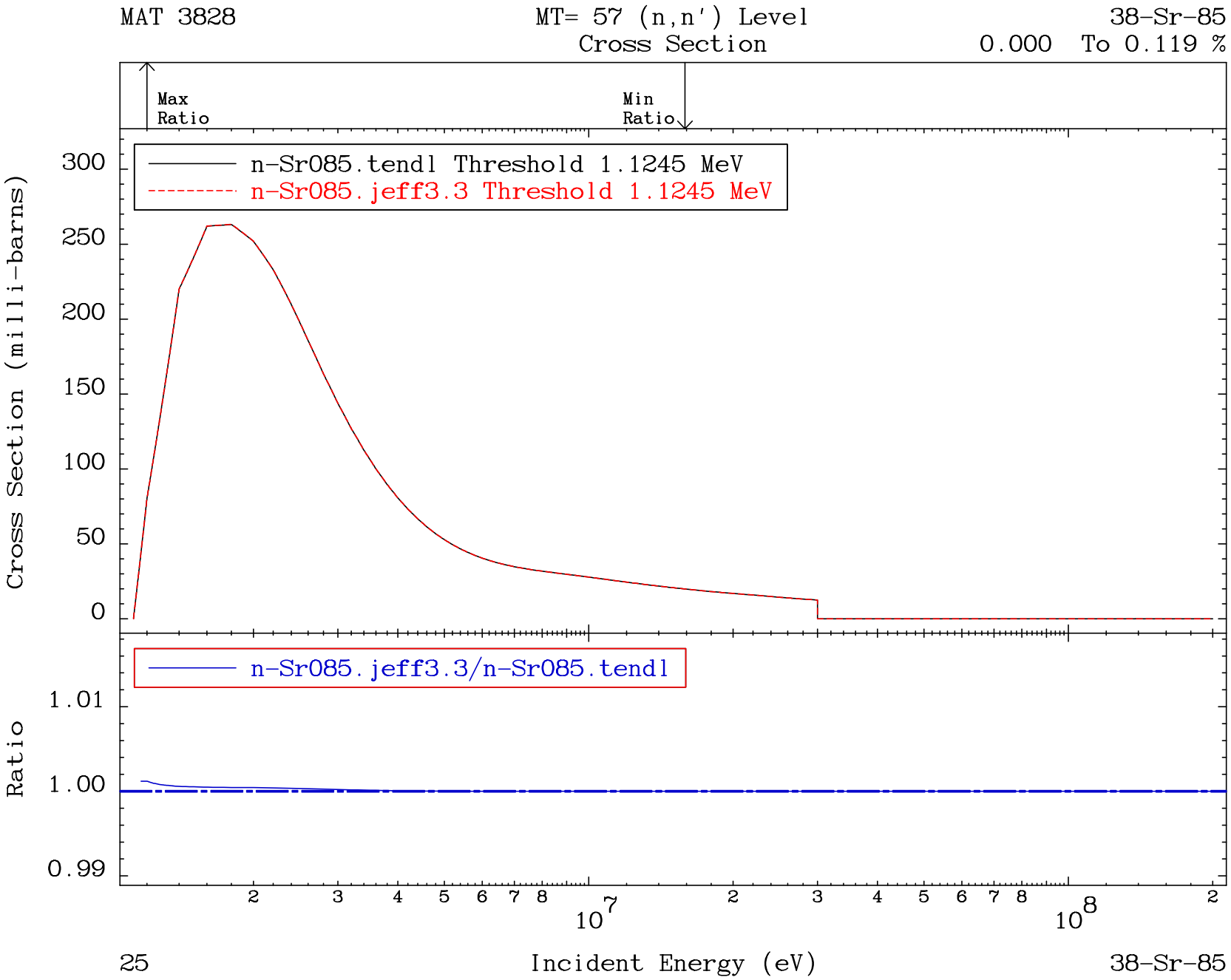

MAT 3828
MT= 52 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.265 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 241.50 keV
n-Sr085.jeff3.3 Threshold 241.50 keV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
38-Sr-85

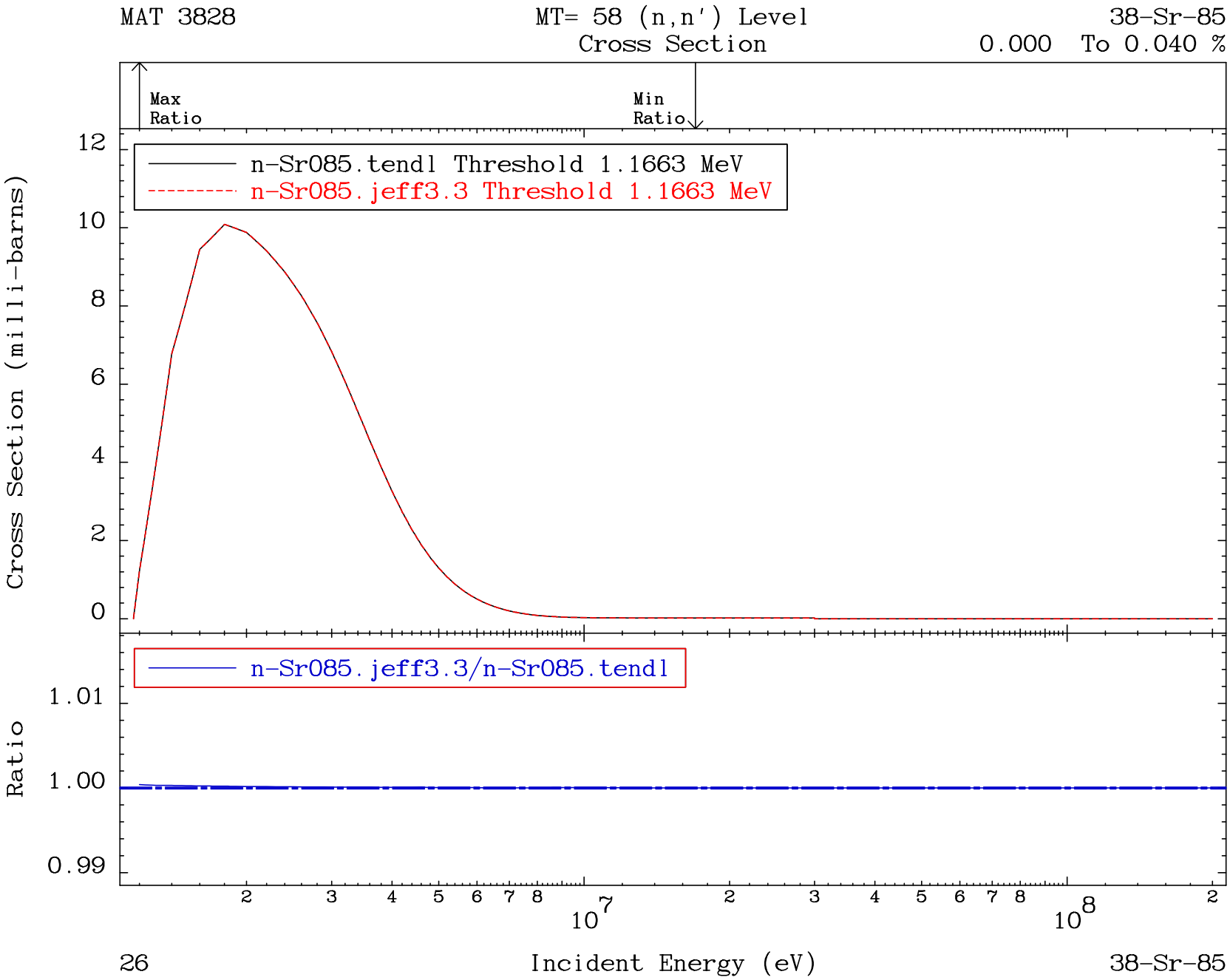

MAT 3828
MT= 53 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.114 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 751.96 keV
n-Sr085.jeff3.3 Threshold 751.96 keV
Cross Section (milli-barns)
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
38-Sr-85

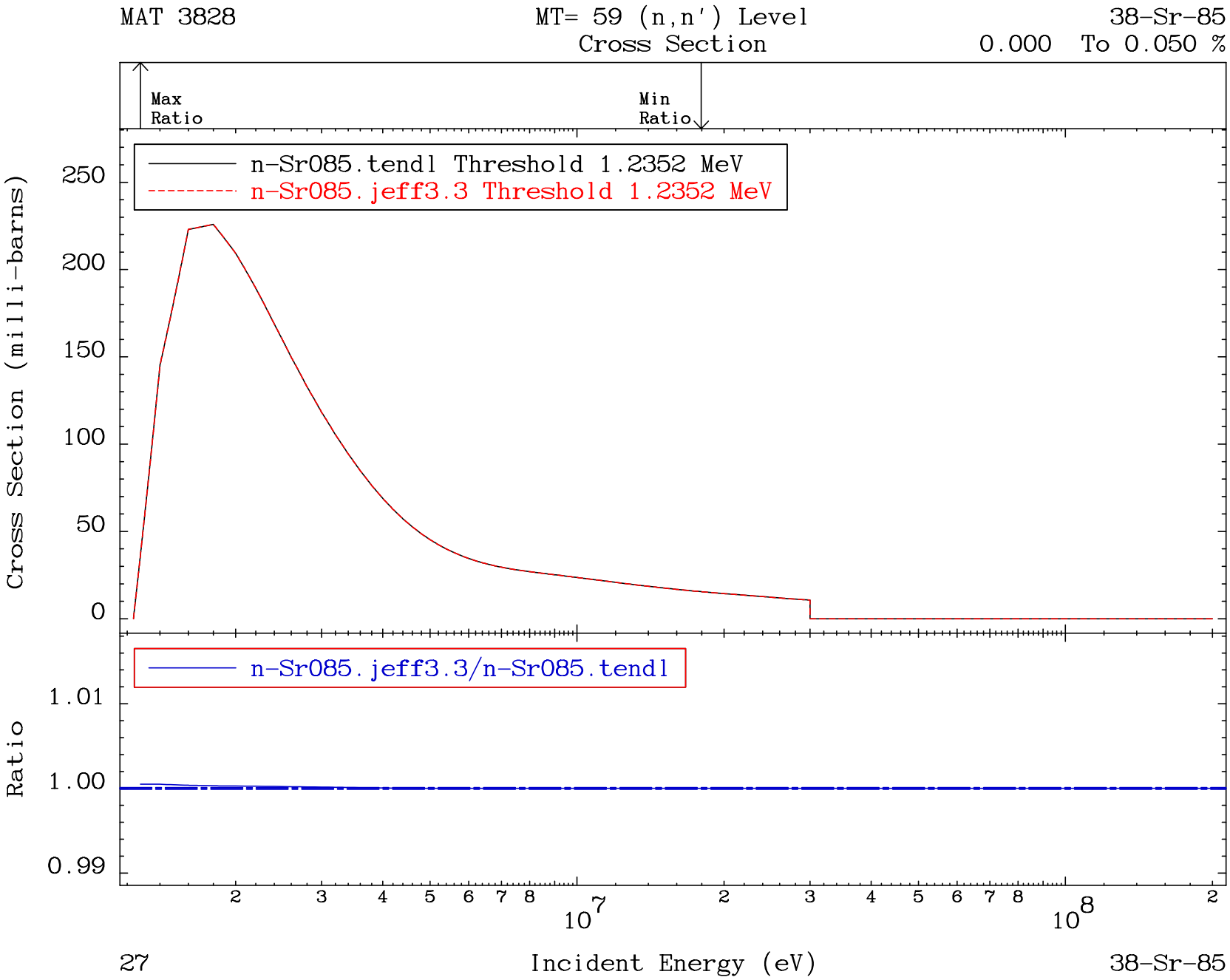

MAT 3828
MT= 54 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.072 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 776.38 keV
n-Sr085.jeff3.3 Threshold 776.38 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
8 2 3 4 5 6 7 8 2 3 4 5 6 7 8 2
10^6
10^7
10^8
22
Incident Energy (eV)
38-Sr-85

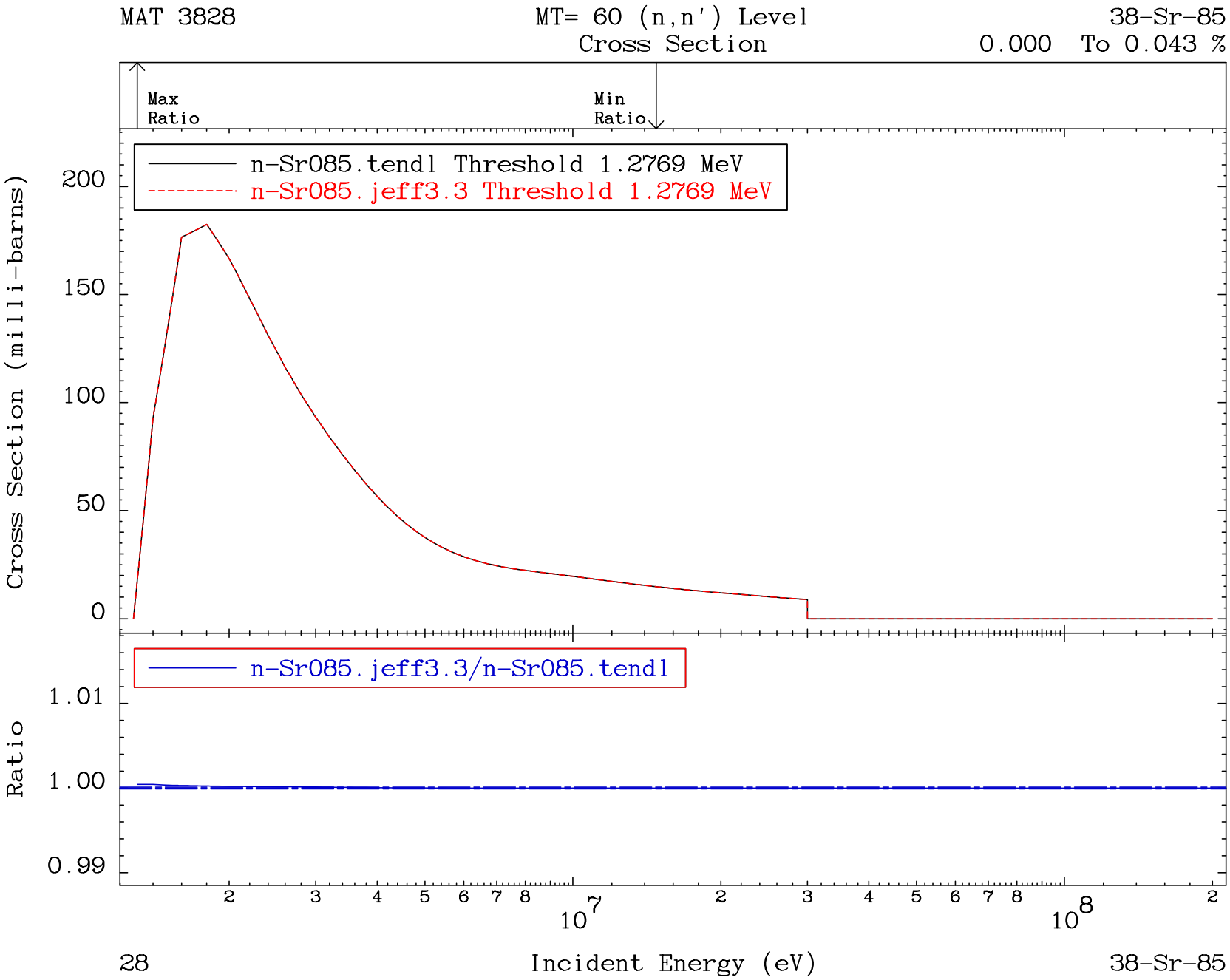

MAT 3828
MT= 55 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.061 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 794.77 keV
n-Sr085.jeff3.3 Threshold 794.77 keV
Cross Section (milli-barns)
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
38-Sr-85

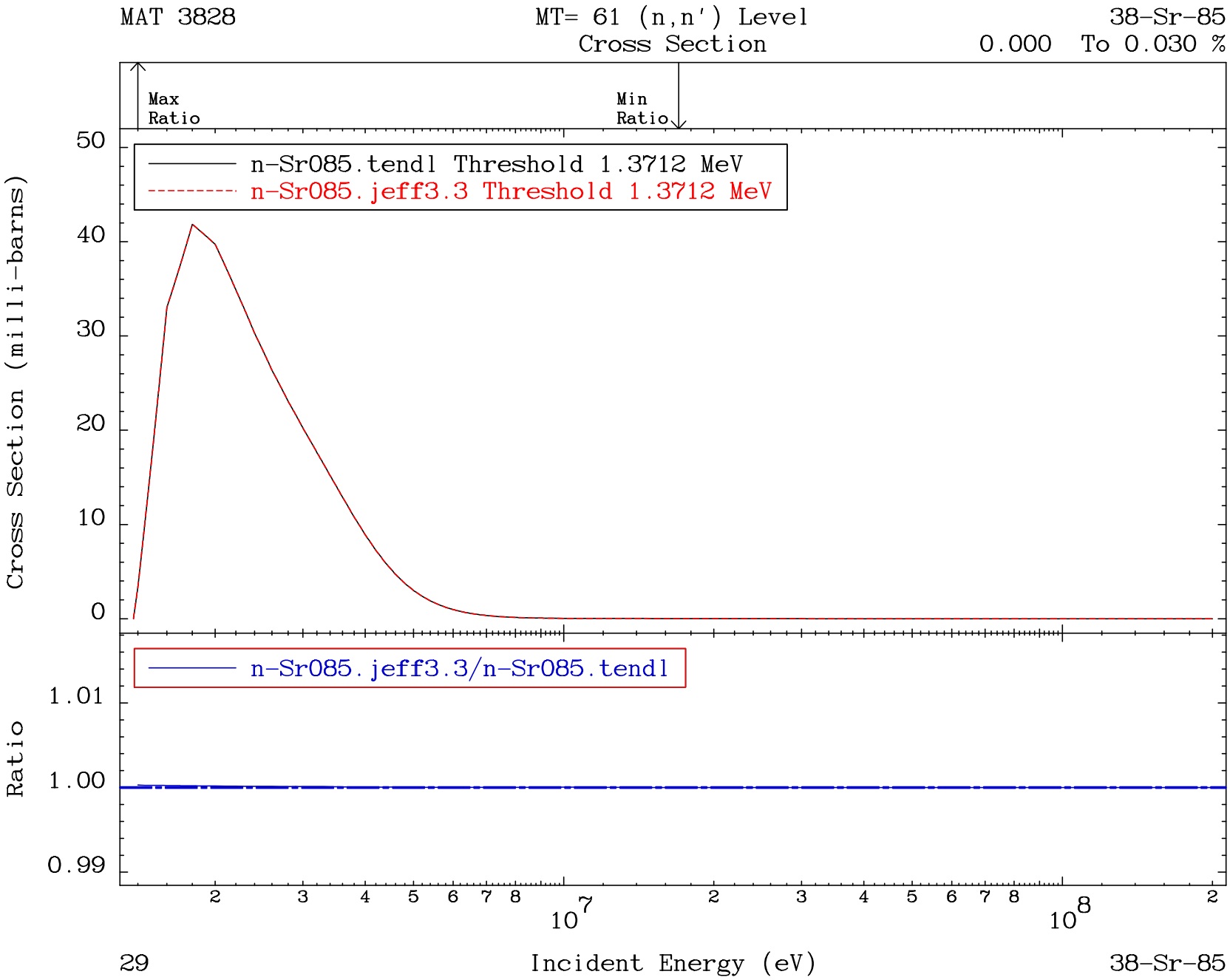

MAT 3828
MT= 56 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.052 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 947.88 keV
n-Sr085.jeff3.3 Threshold 947.88 keV
Cross Section (milli-barns)
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
10^6
10^7
10^8
Incident Energy (eV)
24
38-Sr-85

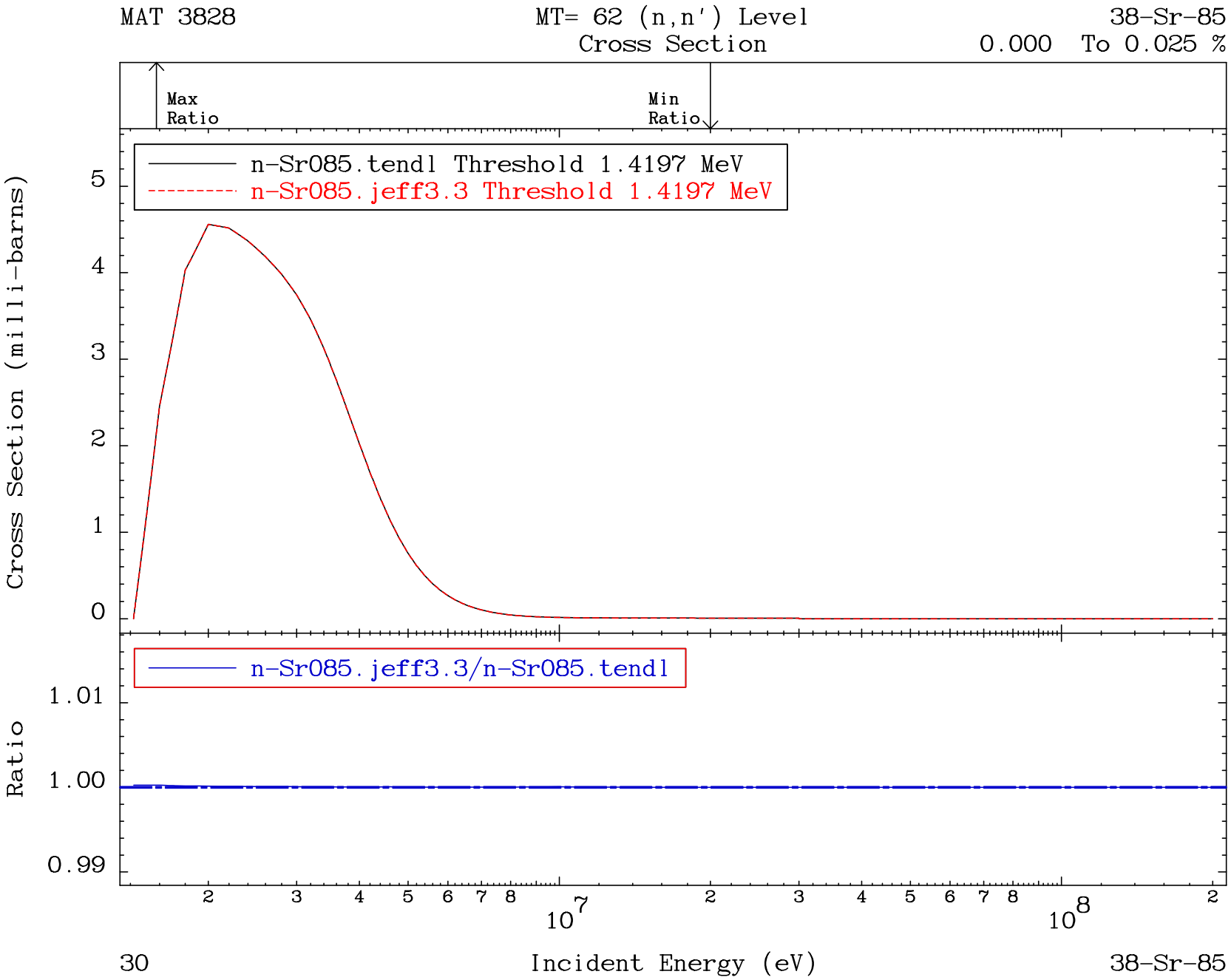

MAT 3828
MT= 57 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.119 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.1245 MeV
n-Sr085.jeff3.3 Threshold 1.1245 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
38-Sr-85

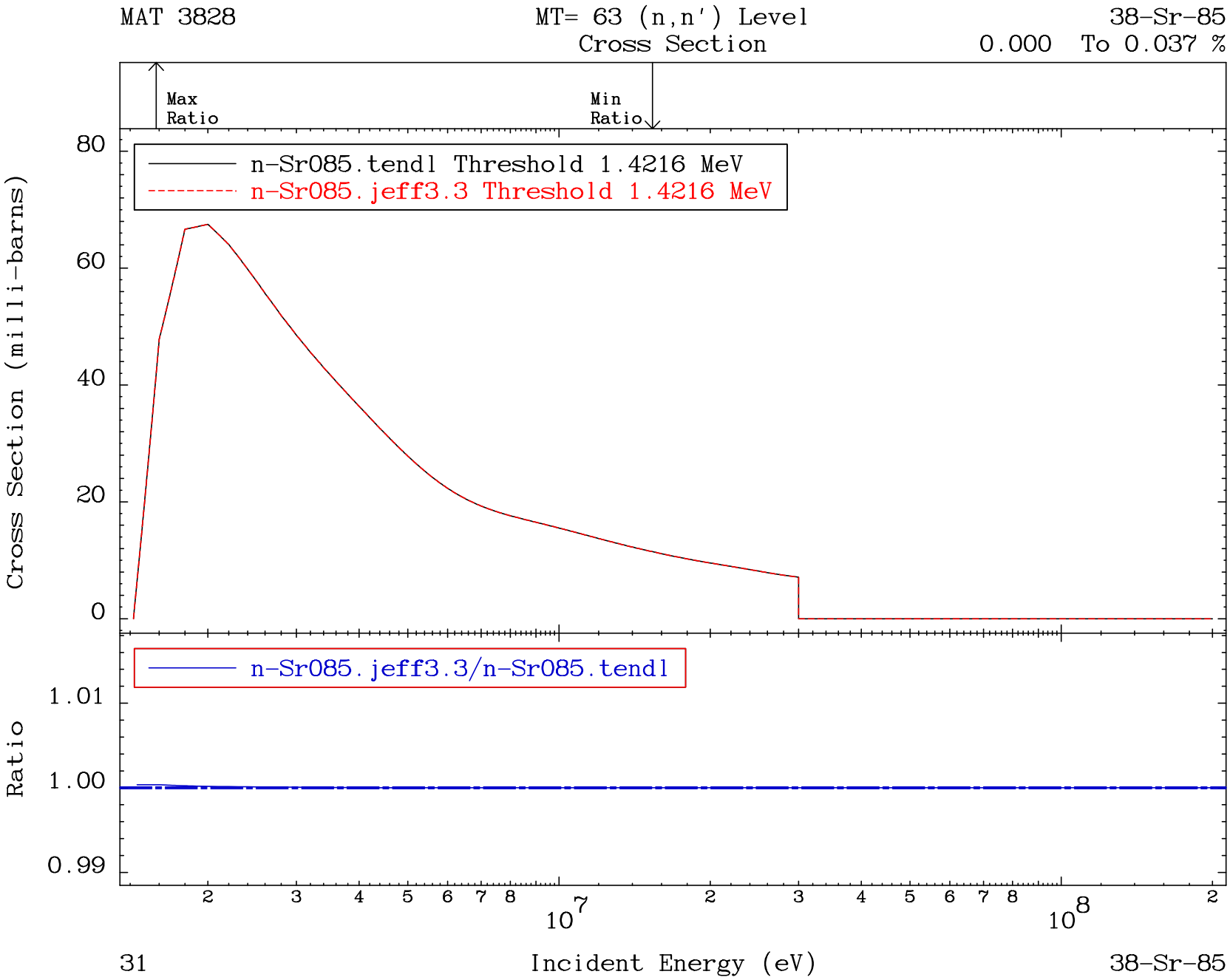

MAT 3828
MT= 58 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.040 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.1663 MeV
n-Sr085.jeff3.3 Threshold 1.1663 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
38-Sr-85

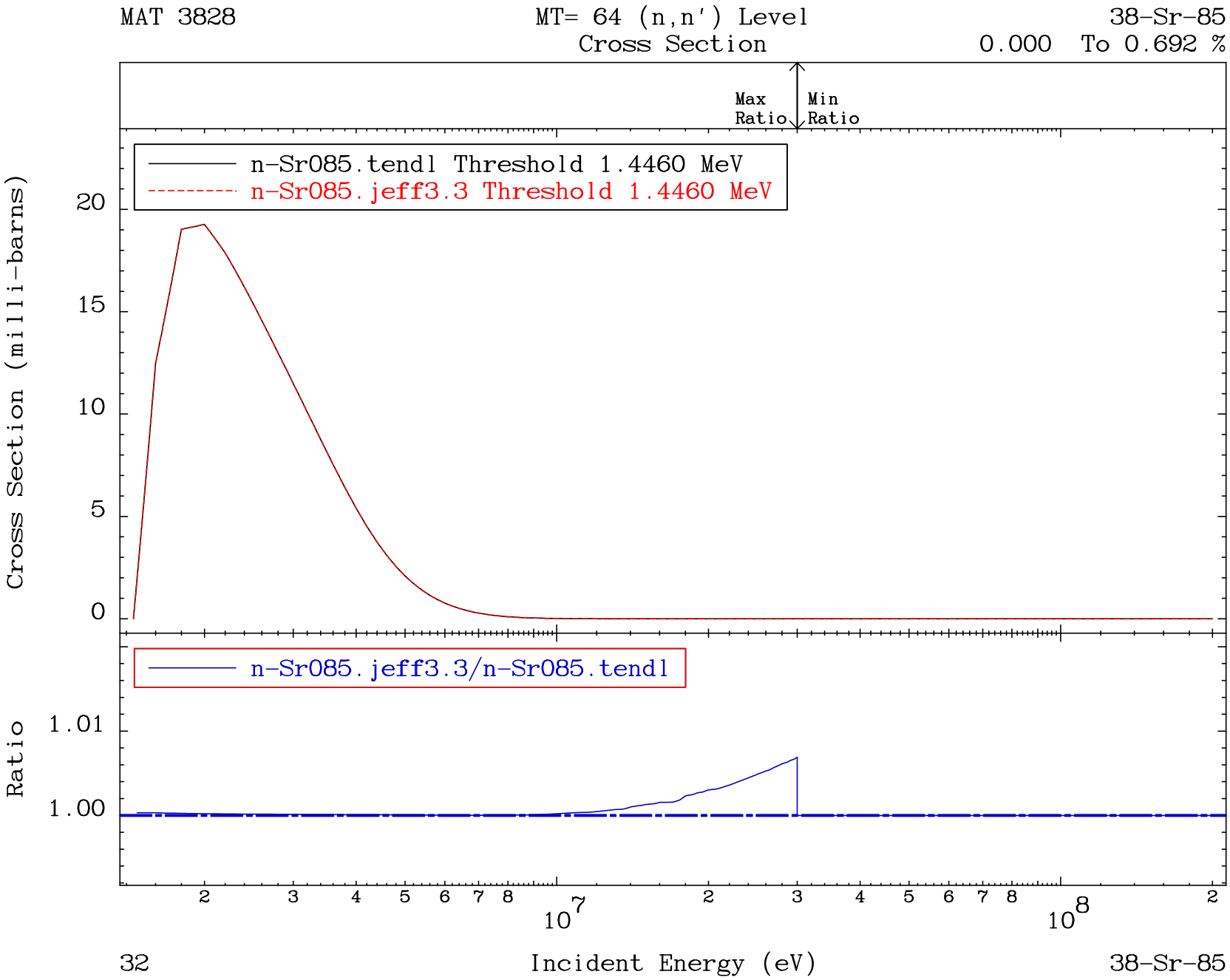

MAT 3828
MT= 59 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.050 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.2352 MeV
n-Sr085.jeff3.3 Threshold 1.2352 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
38-Sr-85

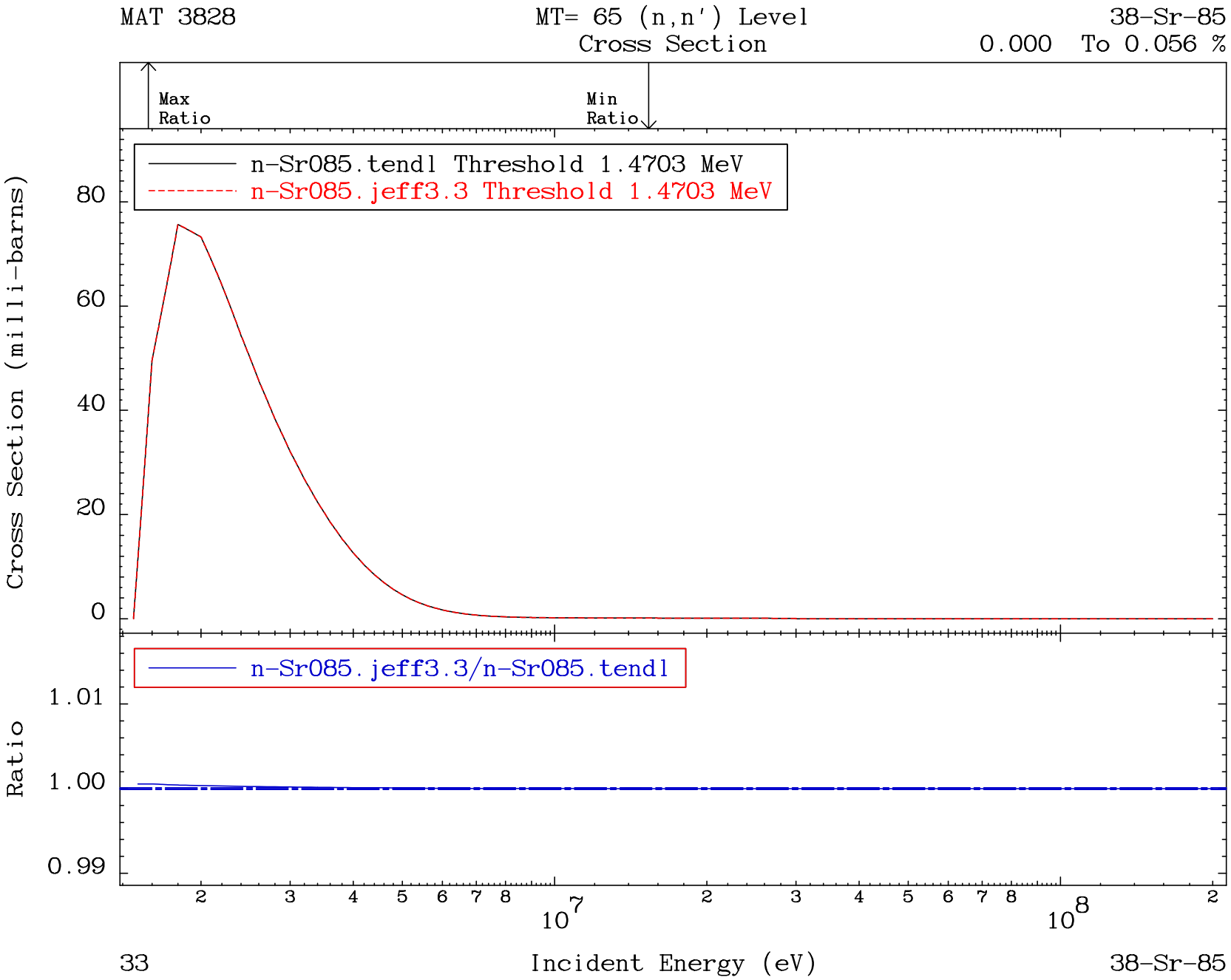

MAT 3828
MT= 60 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.043 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.2769 MeV
n-Sr085.jeff3.3 Threshold 1.2769 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
38-Sr-85

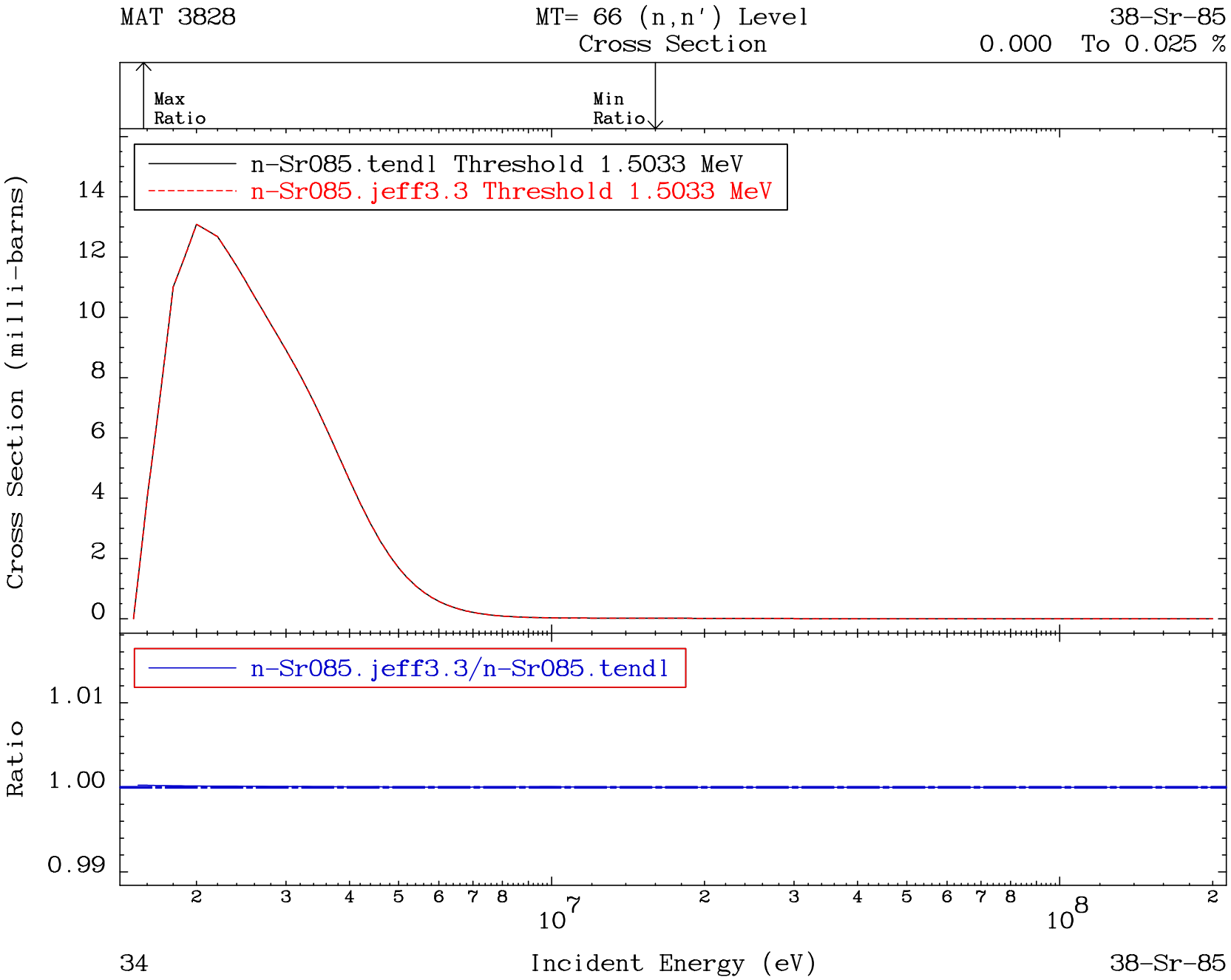

MAT 3828
MT= 61 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.030 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.3712 MeV
n-Sr085.jeff3.3 Threshold 1.3712 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
38-Sr-85

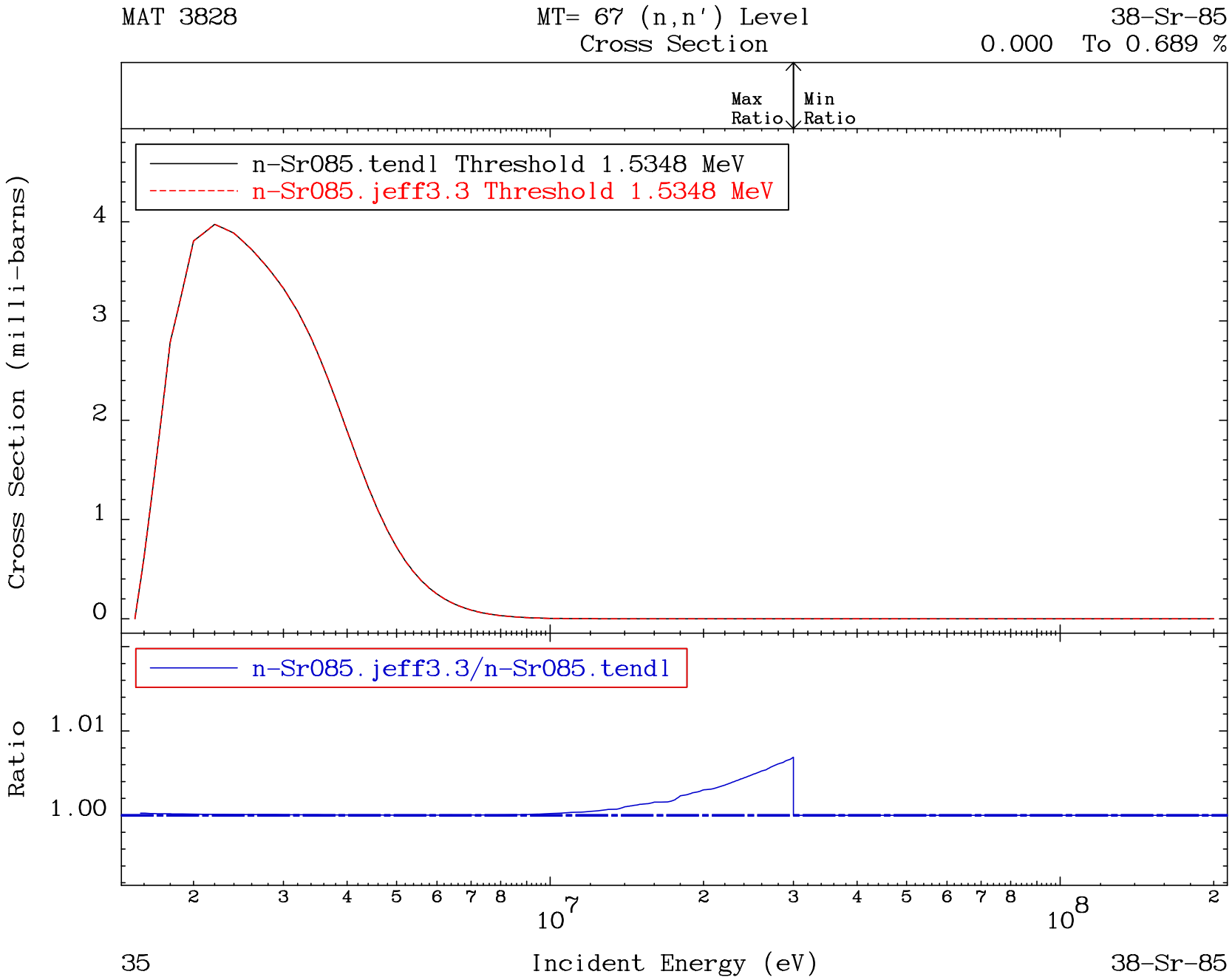

MAT 3828
MT= 62 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.025 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.4197 MeV
n-Sr085.jeff3.3 Threshold 1.4197 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
0.99
1.00
1.01
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
30
38-Sr-85

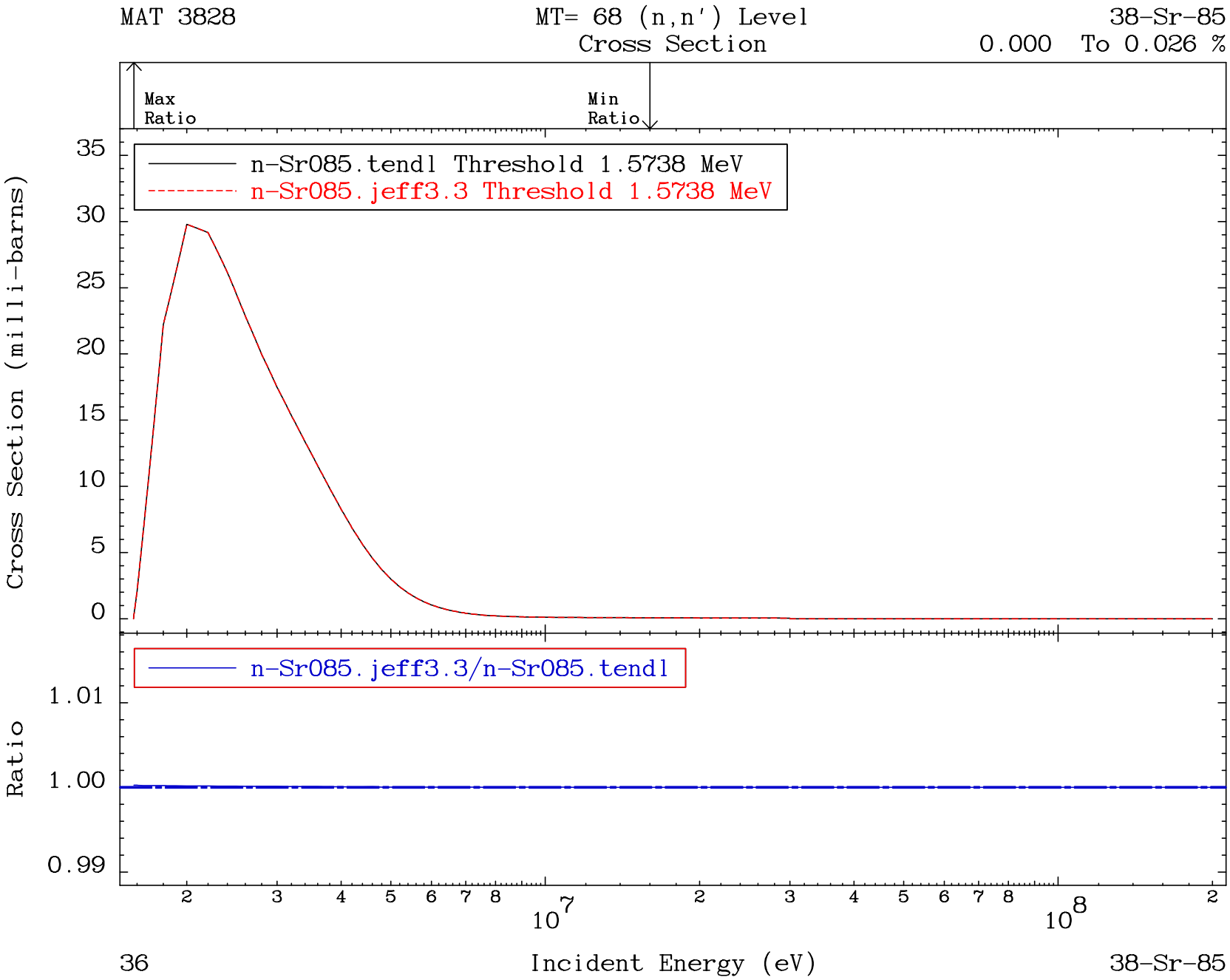

MAT 3828
MT= 63 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.037 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.4216 MeV
n-Sr085.jeff3.3 Threshold 1.4216 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
38-Sr-85

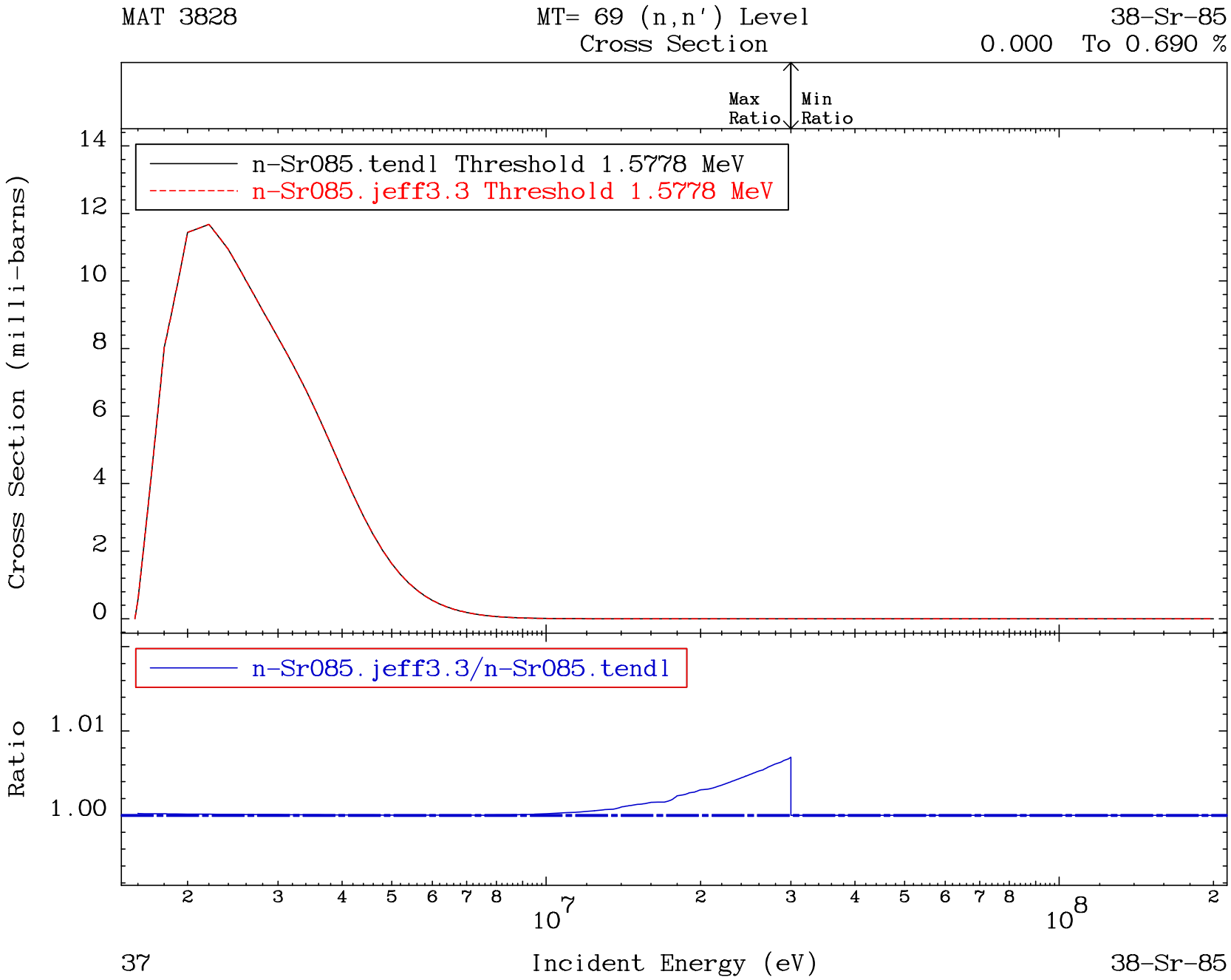

MAT 3828
MT= 64 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.692 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.4460 MeV
n-Sr085.jeff3.3 Threshold 1.4460 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
38-Sr-85

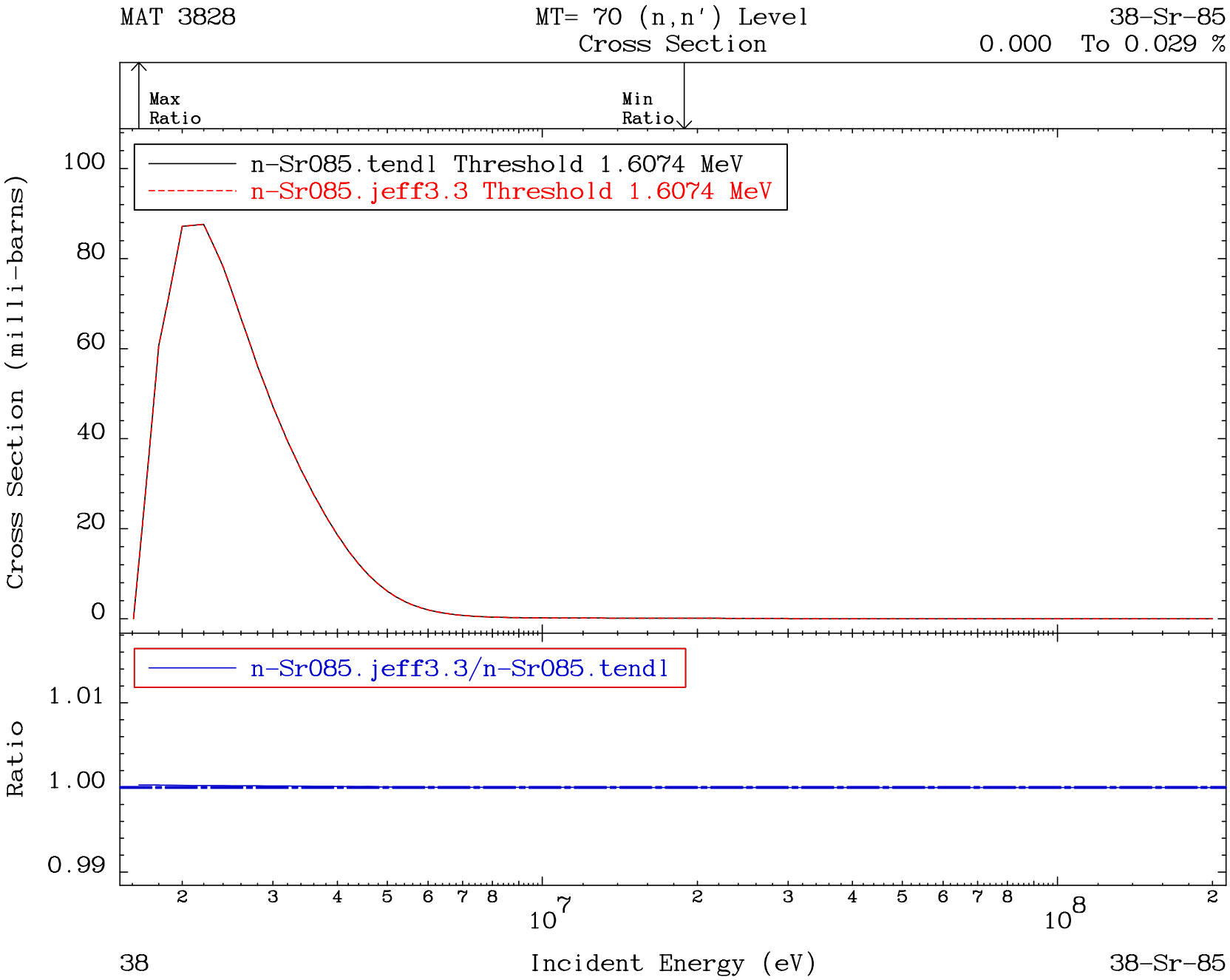

MAT 3828
MT= 65 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.056 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.4703 MeV
n-Sr085.jeff3.3 Threshold 1.4703 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
38-Sr-85

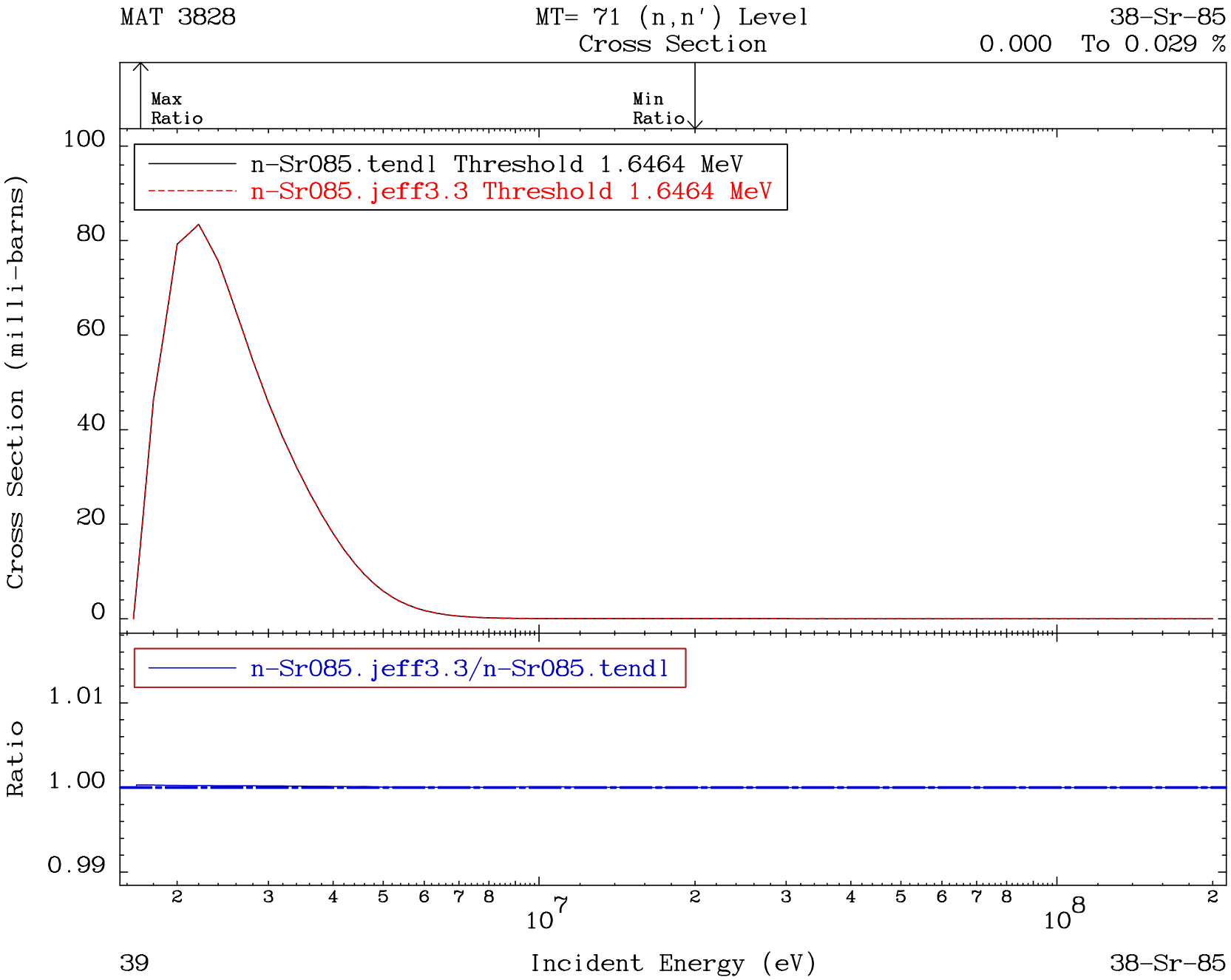

MAT 3828
MT= 66 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.025 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.5033 MeV
n-Sr085.jeff3.3 Threshold 1.5033 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
38-Sr-85

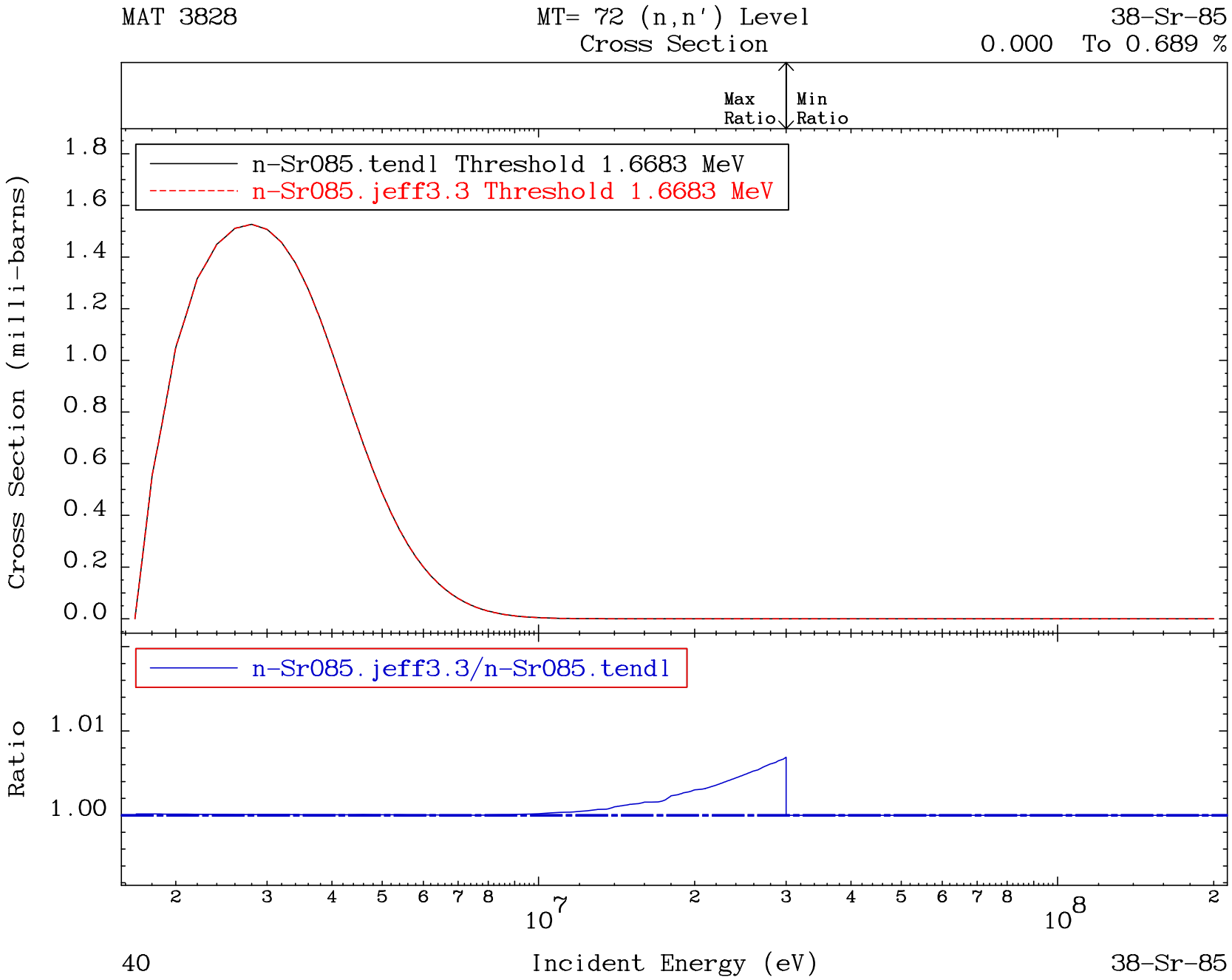

MAT 3828
MT= 67 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.689 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.5348 MeV
n-Sr085.jeff3.3 Threshold 1.5348 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
1.01
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
38-Sr-85

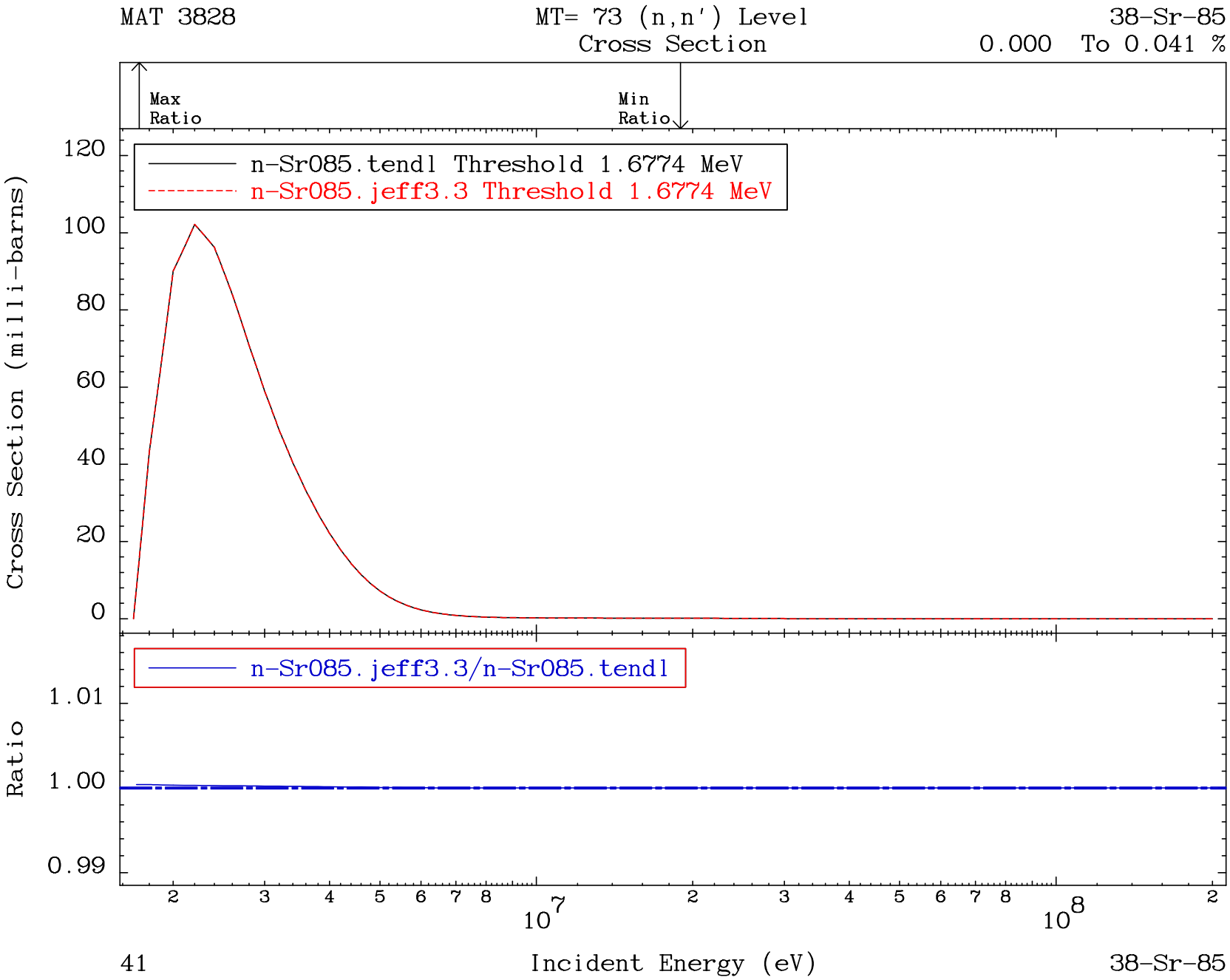

MAT 3828
MT= 68 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.026 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.5738 MeV
n-Sr085.jeff3.3 Threshold 1.5738 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
38-Sr-85

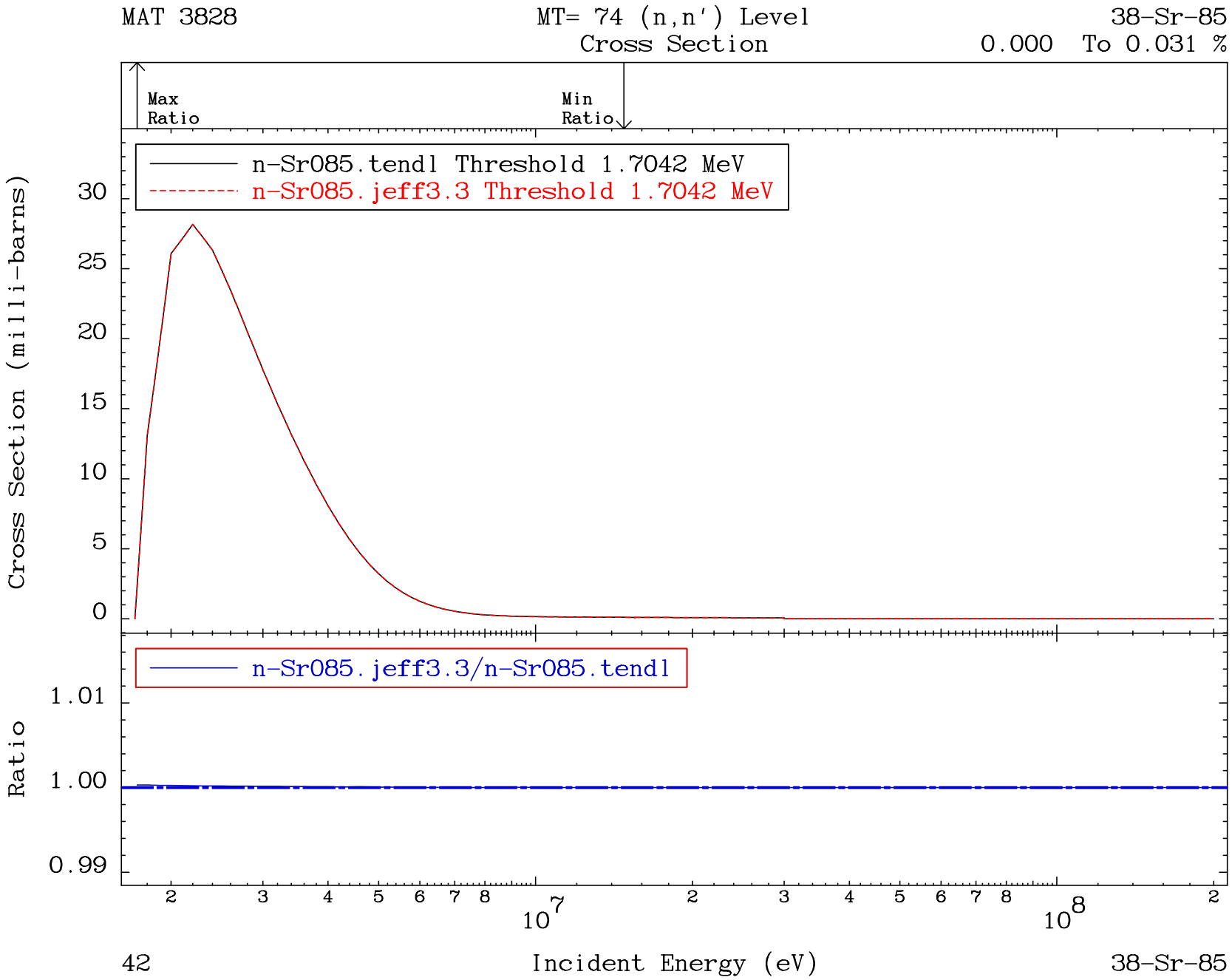

MAT 3828
MT= 69 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.690 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.5778 MeV
n-Sr085.jeff3.3 Threshold 1.5778 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
38-Sr-85

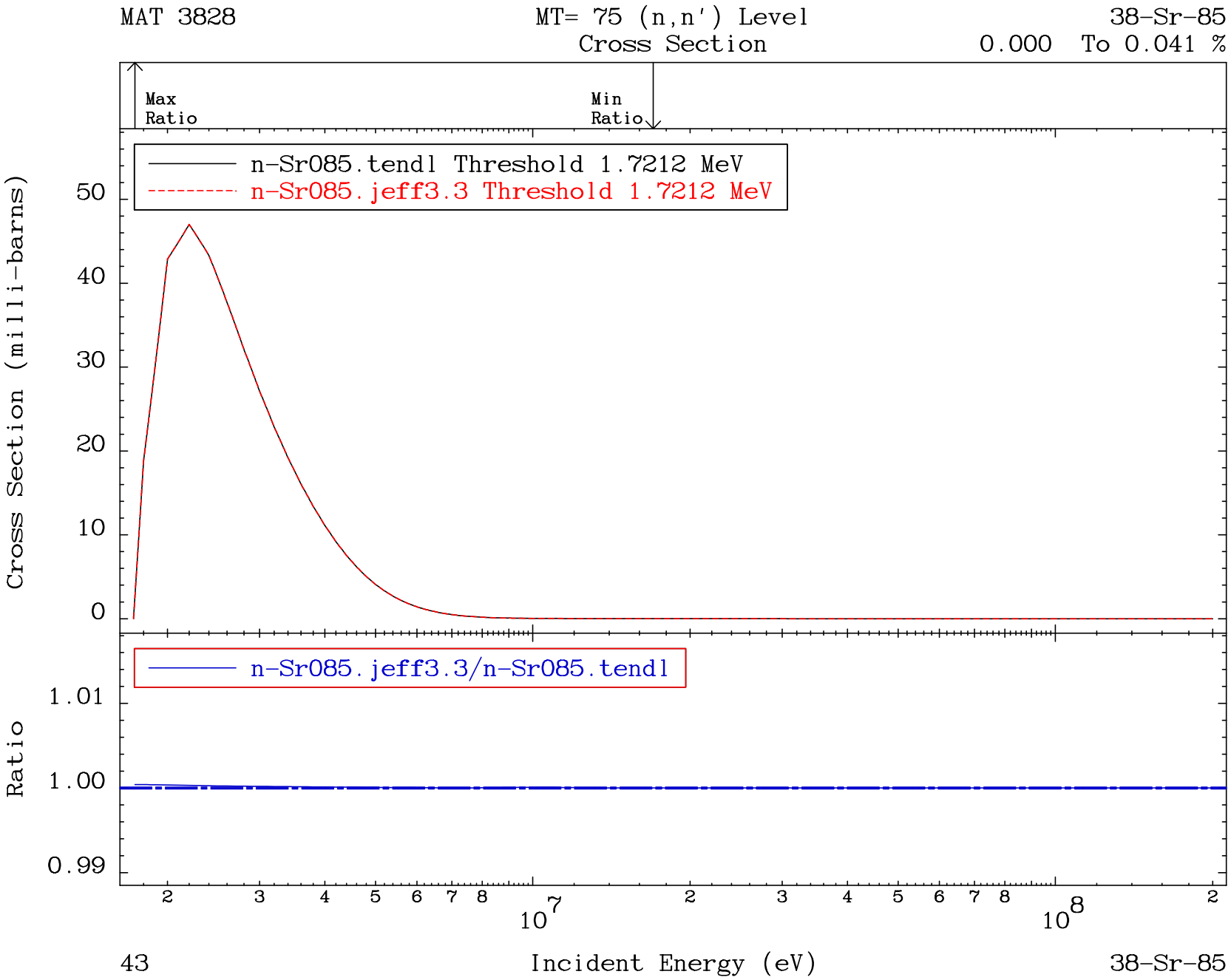

MAT 3828
MT= 70 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.029 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.6074 MeV
n-Sr085.jeff3.3 Threshold 1.6074 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
38-Sr-85

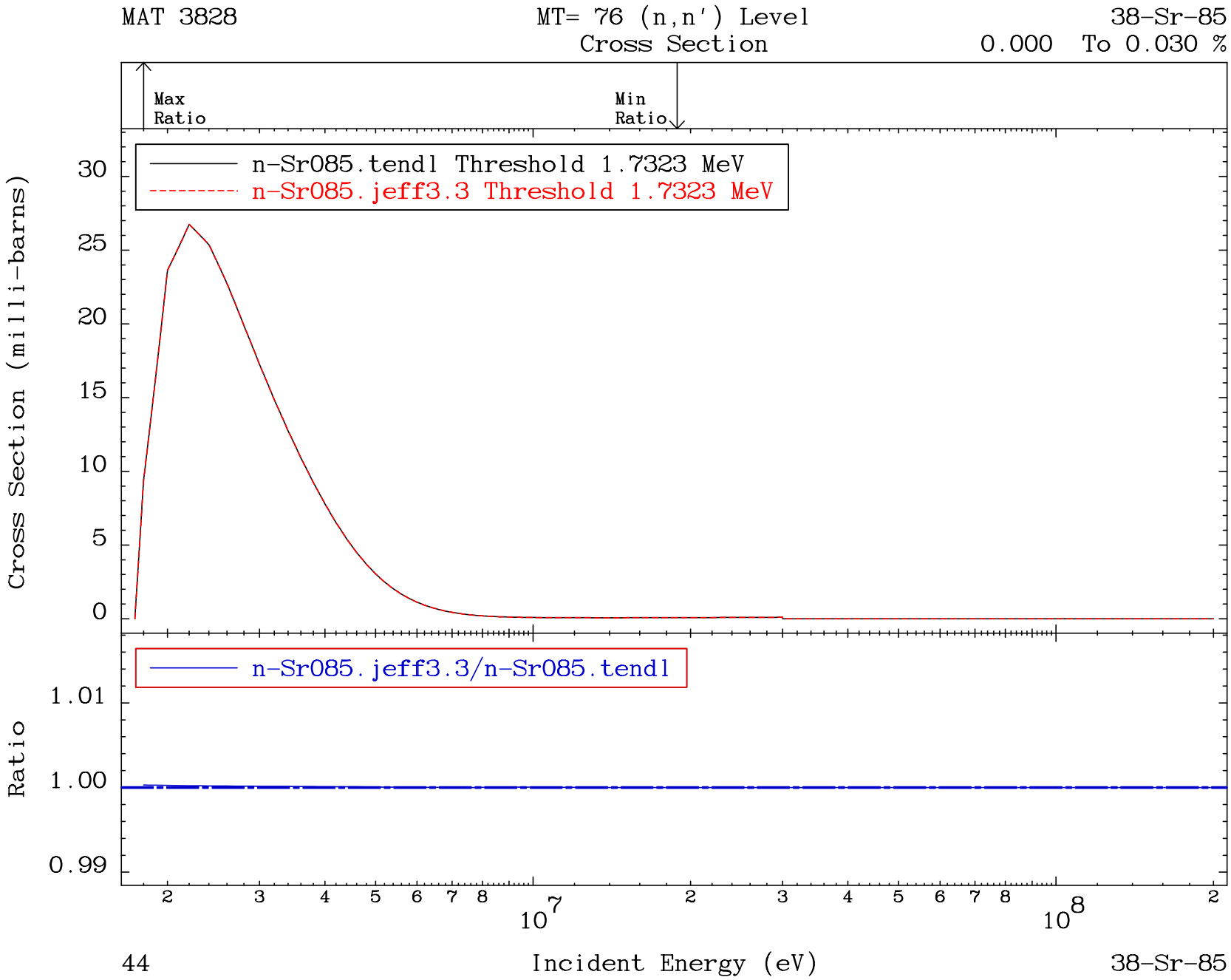

MAT 3828
MT= 71 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.029 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.6464 MeV
n-Sr085.jeff3.3 Threshold 1.6464 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
38-Sr-85

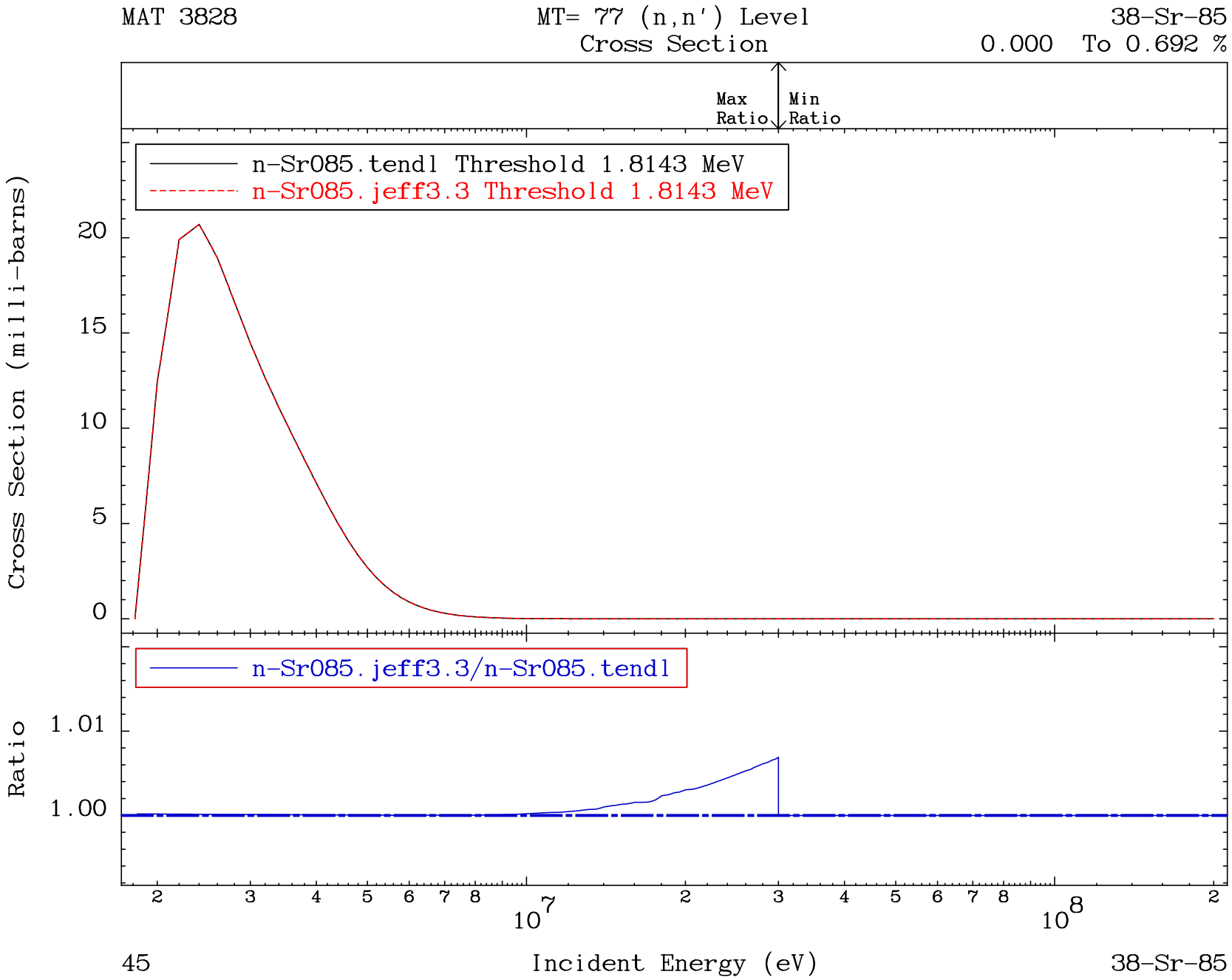

MAT 3828
MT= 72 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.689 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.6683 MeV
n-Sr085.jeff3.3 Threshold 1.6683 MeV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
38-Sr-85

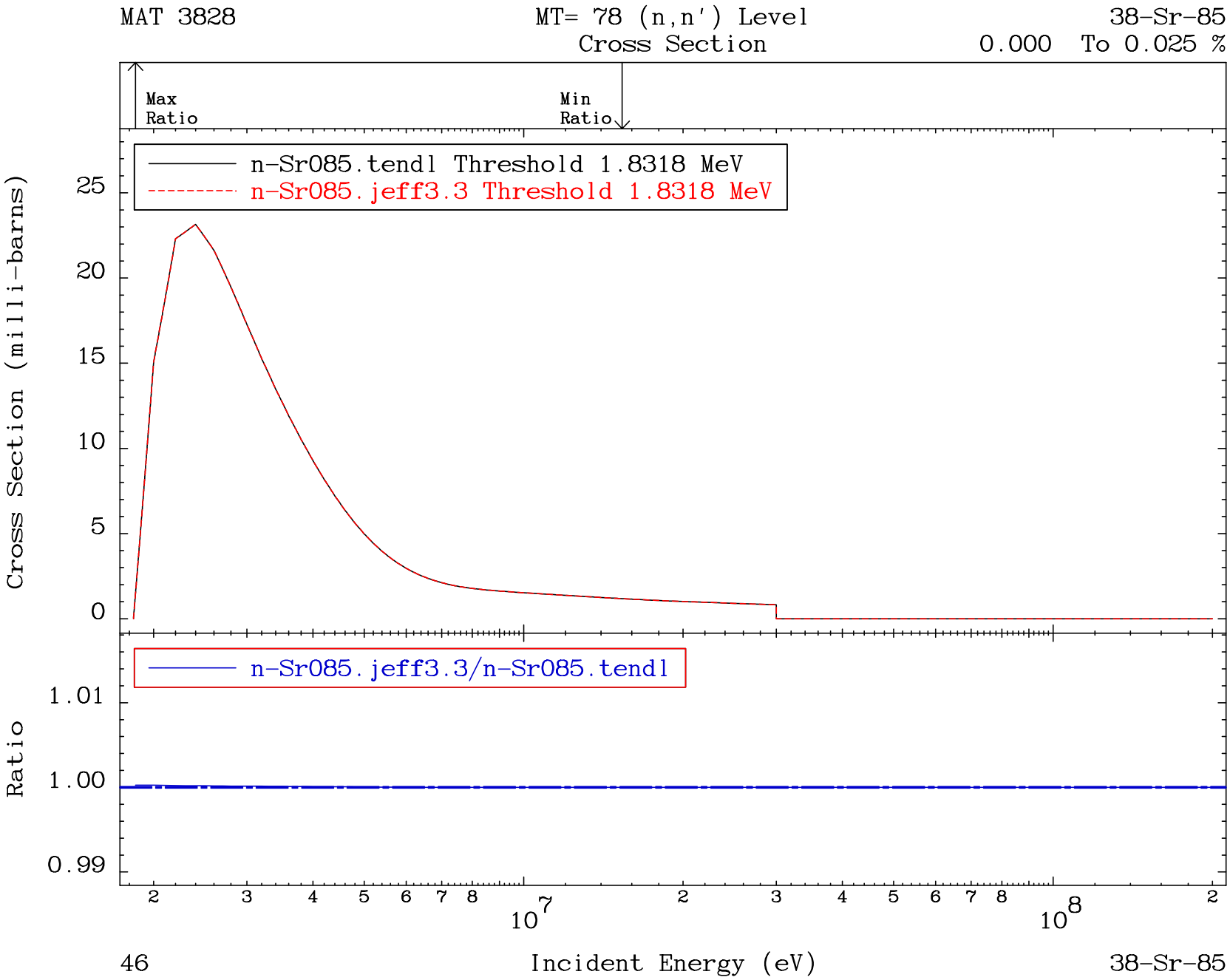

MAT 3828
MT= 73 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.041 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.6774 MeV
n-Sr085.jeff3.3 Threshold 1.6774 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
38-Sr-85

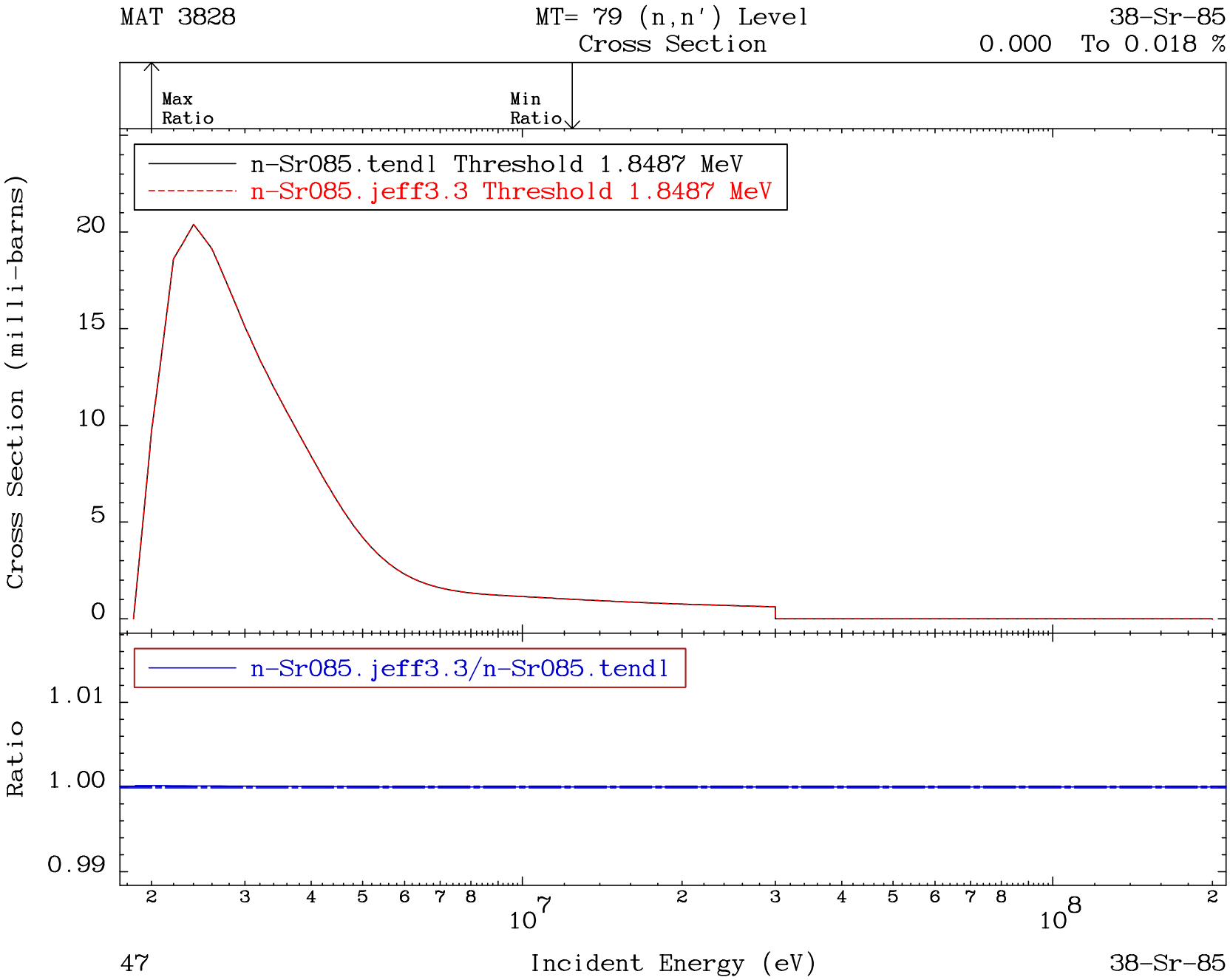

MAT 3828
MT= 74 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.031 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.7042 MeV
n-Sr085.jeff3.3 Threshold 1.7042 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
38-Sr-85

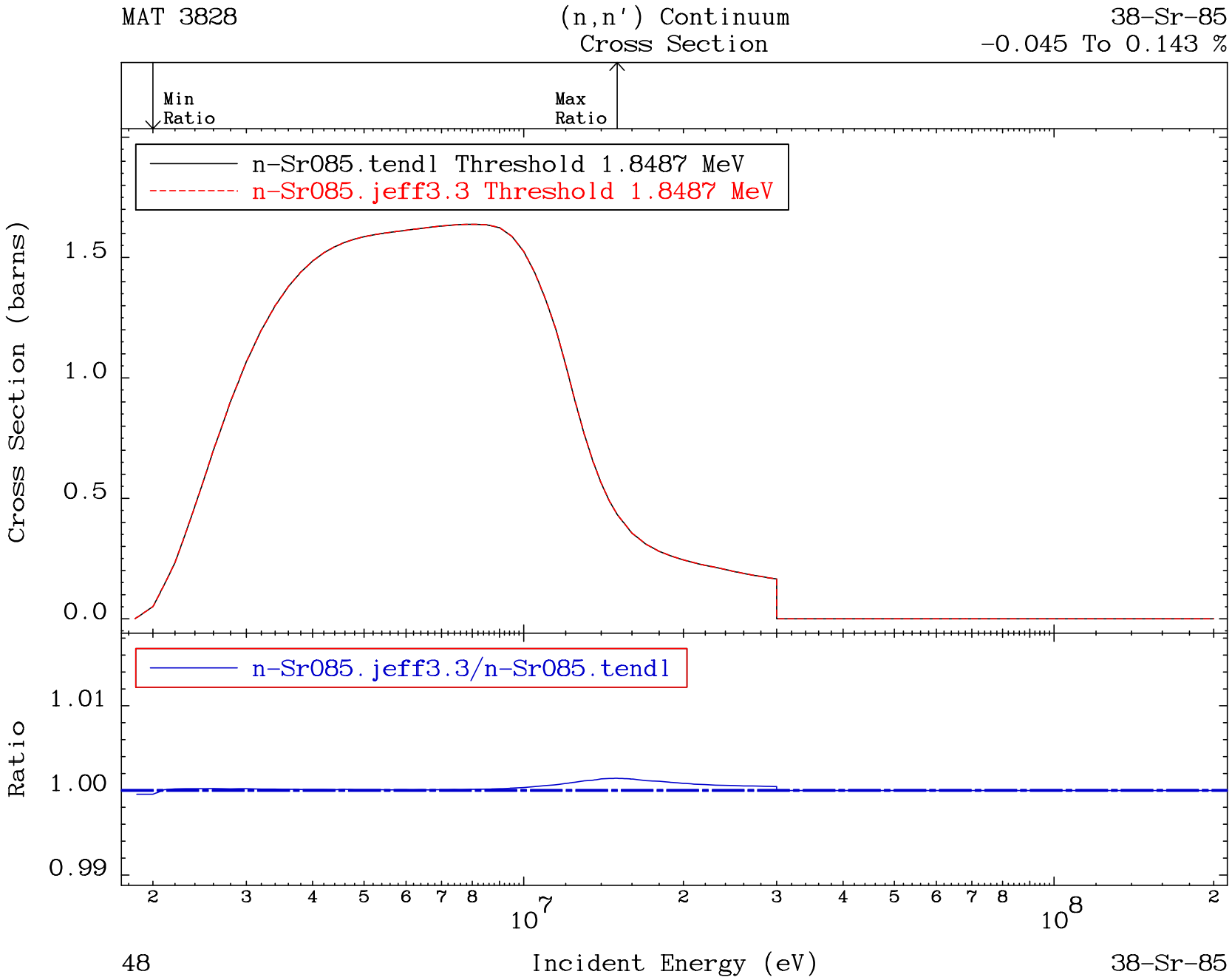

MAT 3828
MT= 75 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.041 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.7212 MeV
n-Sr085.jeff3.3 Threshold 1.7212 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
38-Sr-85

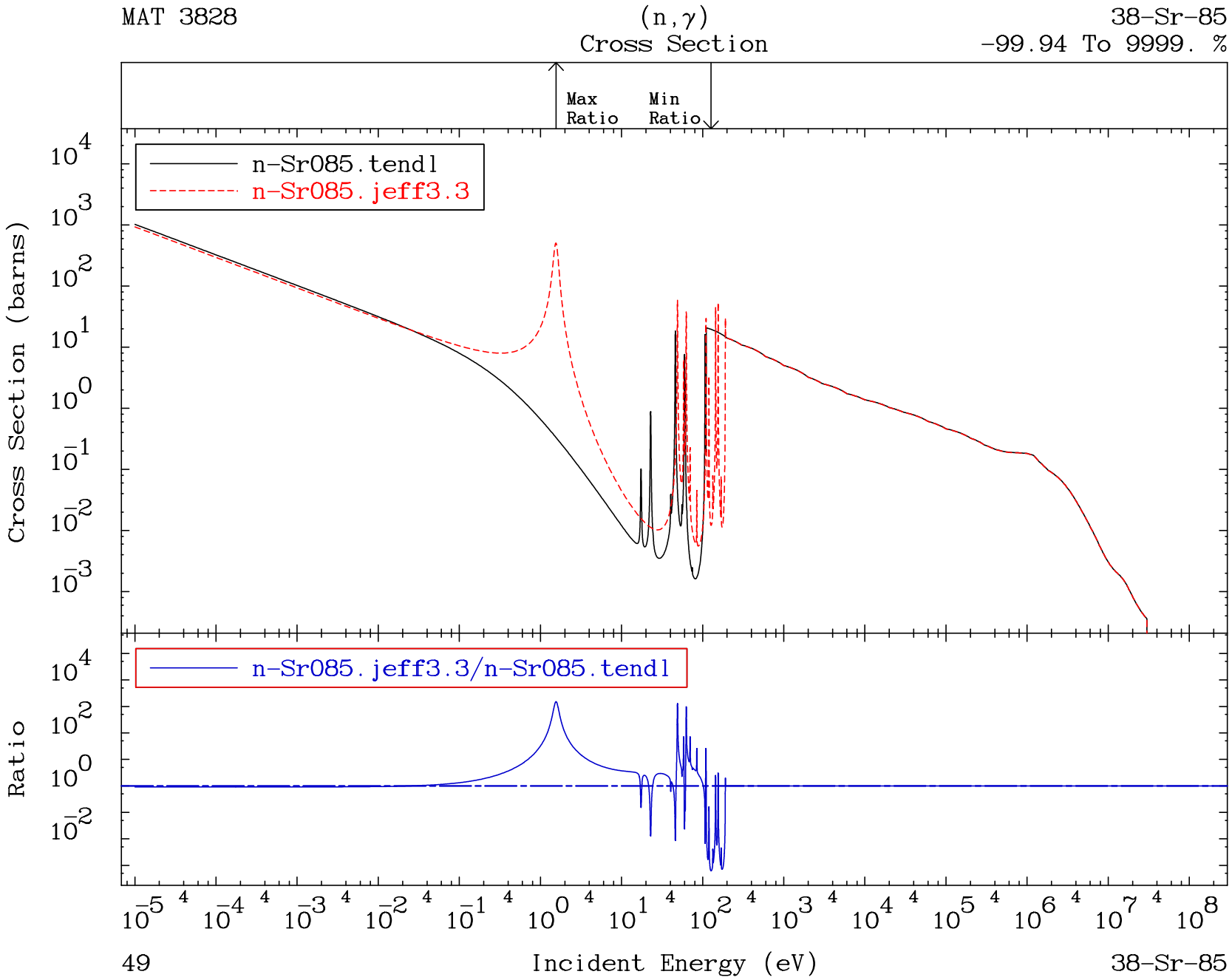

MAT 3828
MT= 76 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.030 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.7323 MeV
n-Sr085.jeff3.3 Threshold 1.7323 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
38-Sr-85

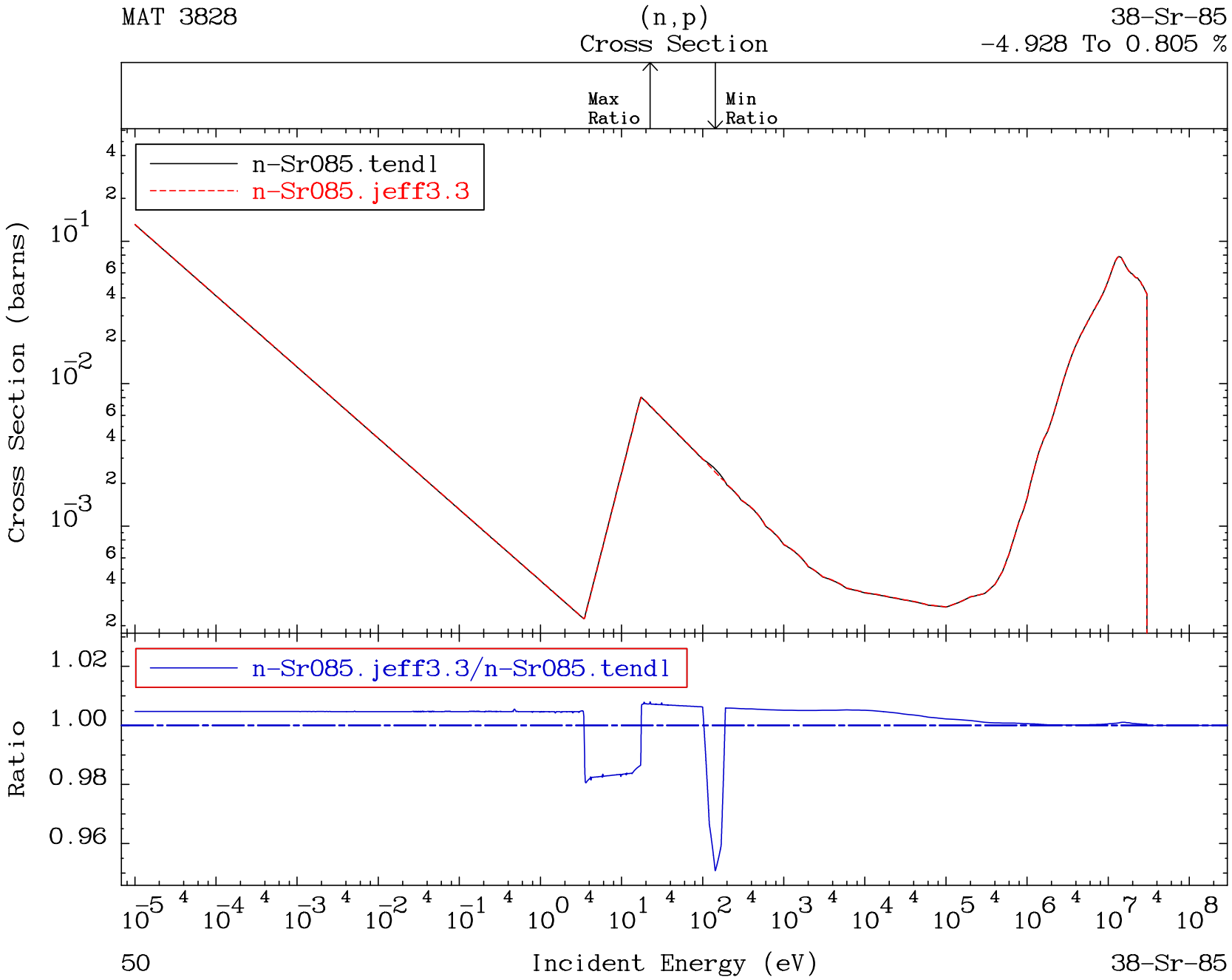

MAT 3828
MT= 77 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.692 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.8143 MeV
n-Sr085.jeff3.3 Threshold 1.8143 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
45
Incident Energy (eV)
38-Sr-85

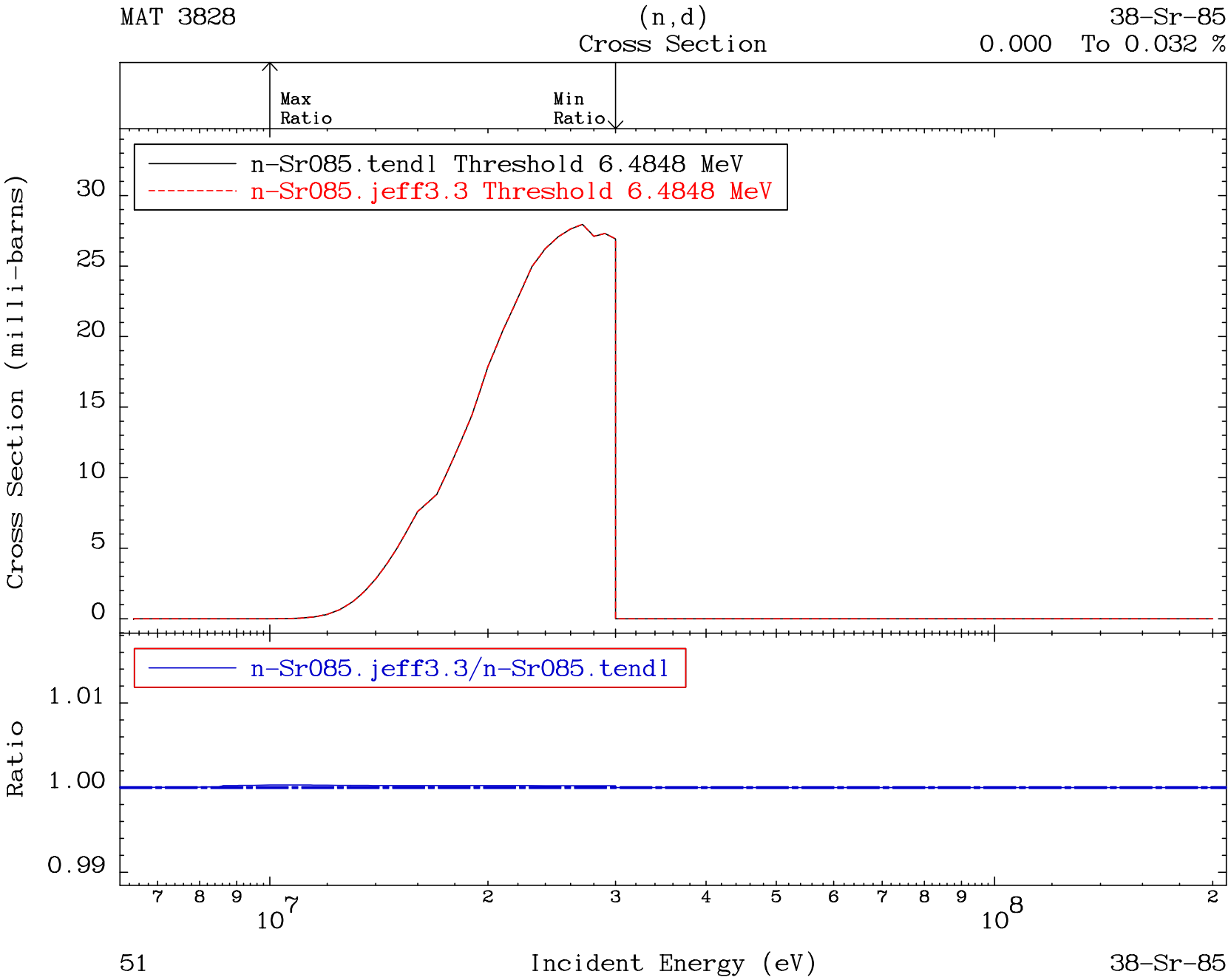

MAT 3828
MT= 78 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.025 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.8318 MeV
n-Sr085.jeff3.3 Threshold 1.8318 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
38-Sr-85

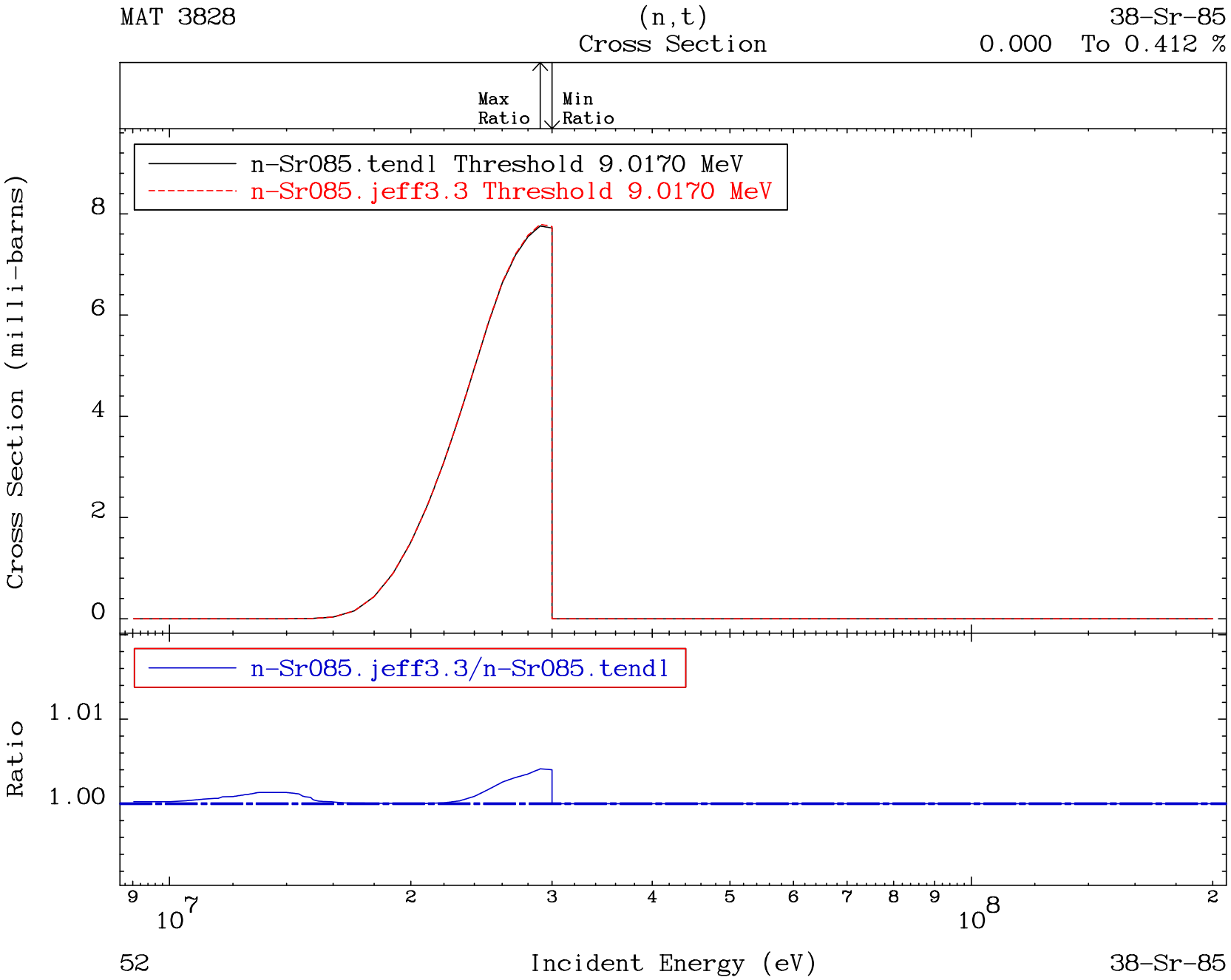

MAT 3828
MT= 79 (n,n') Level
Cross Section
38-Sr-85
0.000 To 0.018 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 1.8487 MeV
n-Sr085.jeff3.3 Threshold 1.8487 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
38-Sr-85

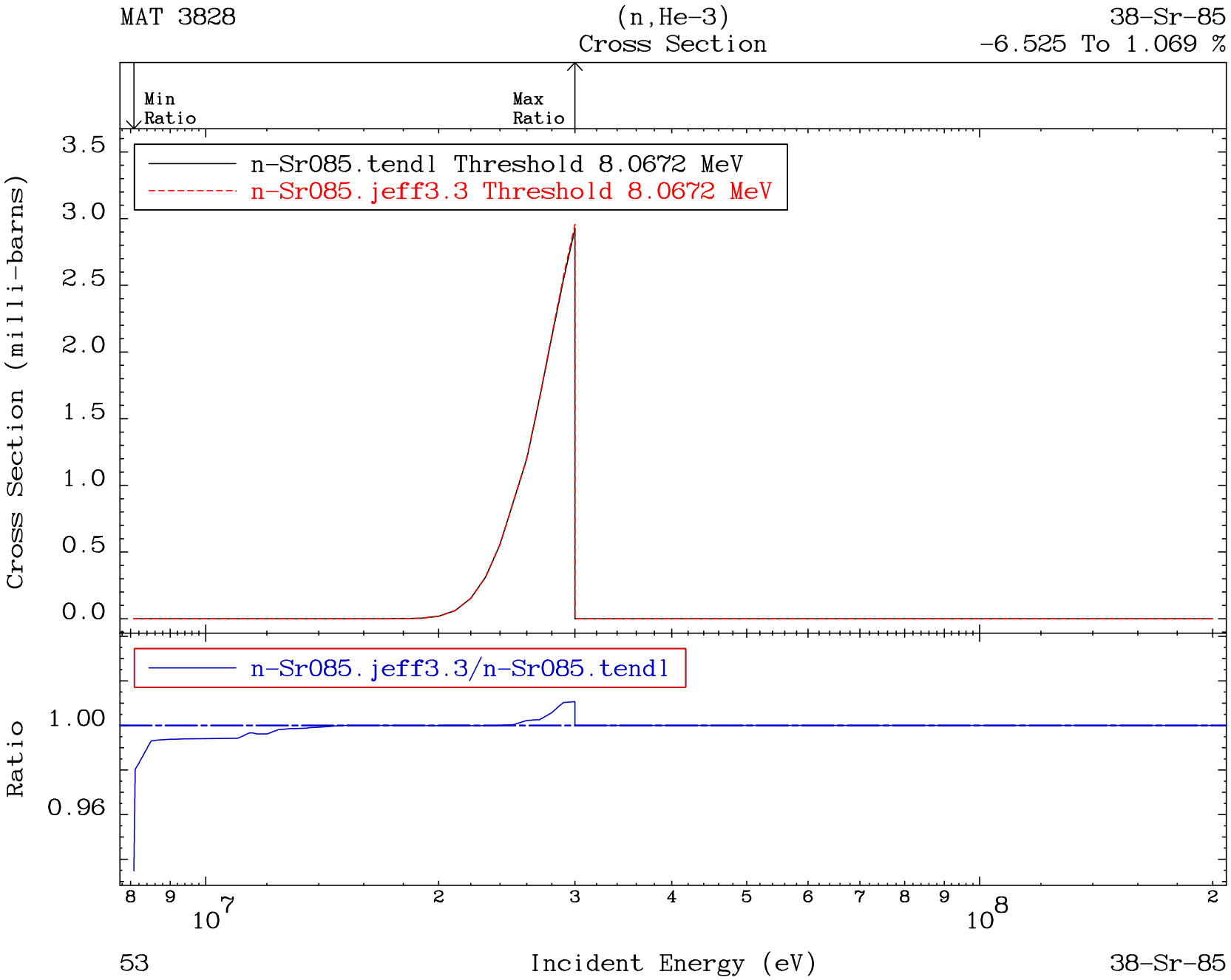

MAT 3828
(n,n') Continuum
Cross Section
38-Sr-85
-0.045 To 0.143 %
Min
Ratio
Max
Ratio
n-Sr085.tendl Threshold 1.8487 MeV
n-Sr085.jeff3.3 Threshold 1.8487 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
38-Sr-85

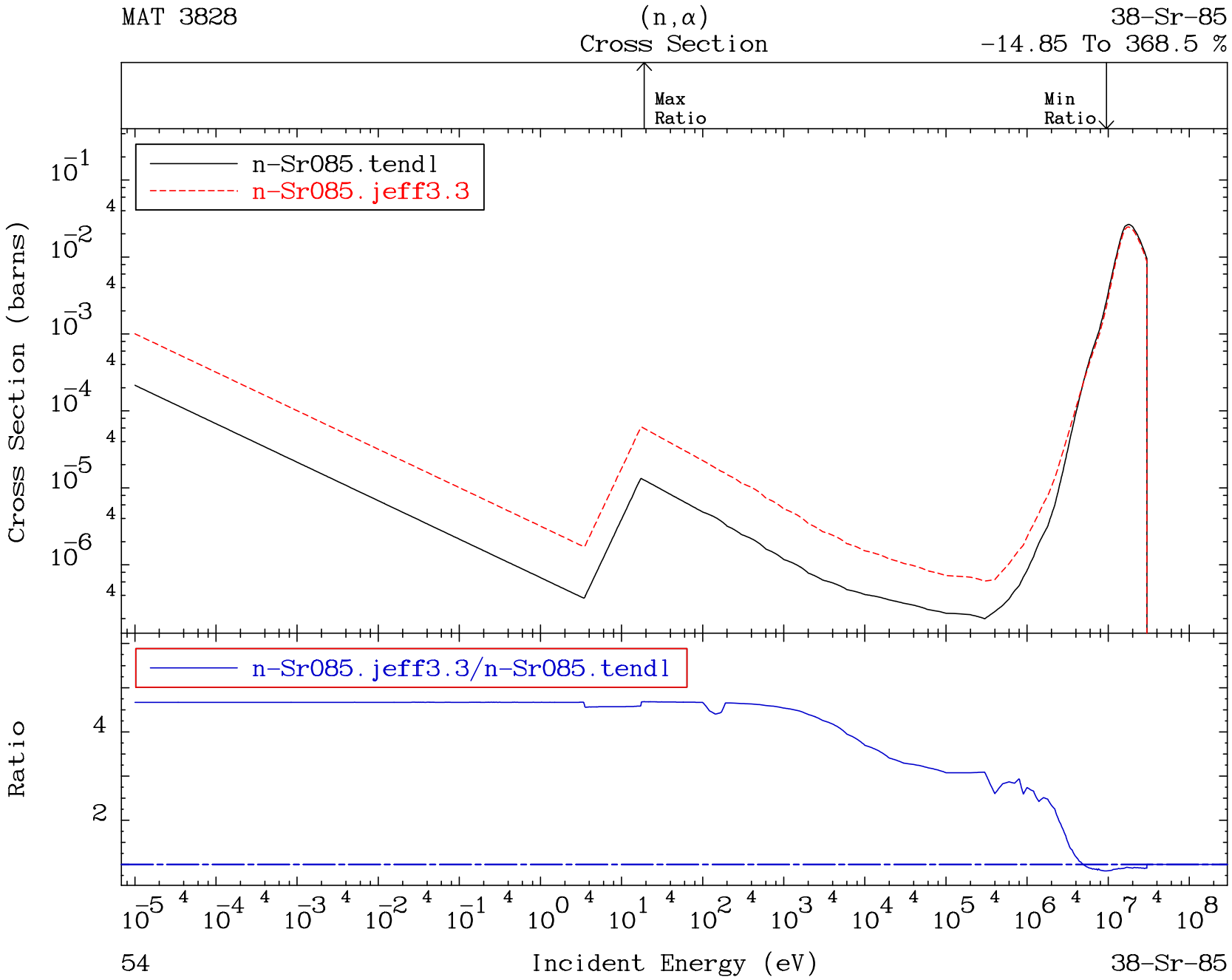

MAT 3828
(n,γ)
Cross Section
38-Sr-85
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
49
Incident Energy (eV)
38-Sr-85

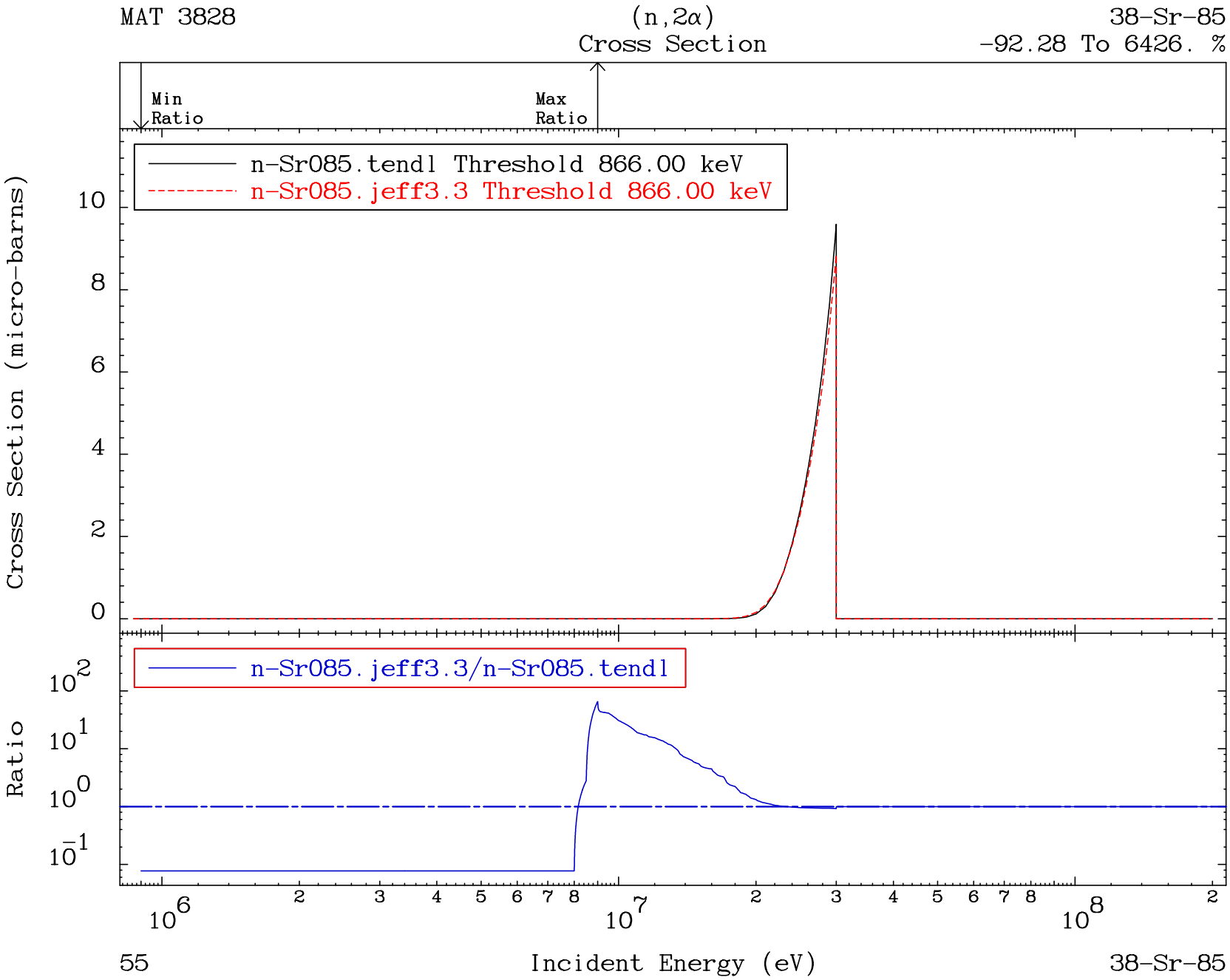

MAT 3828
(n,p)
Cross Section
38-Sr-85
-4.928 To 0.805 %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
50
38-Sr-85

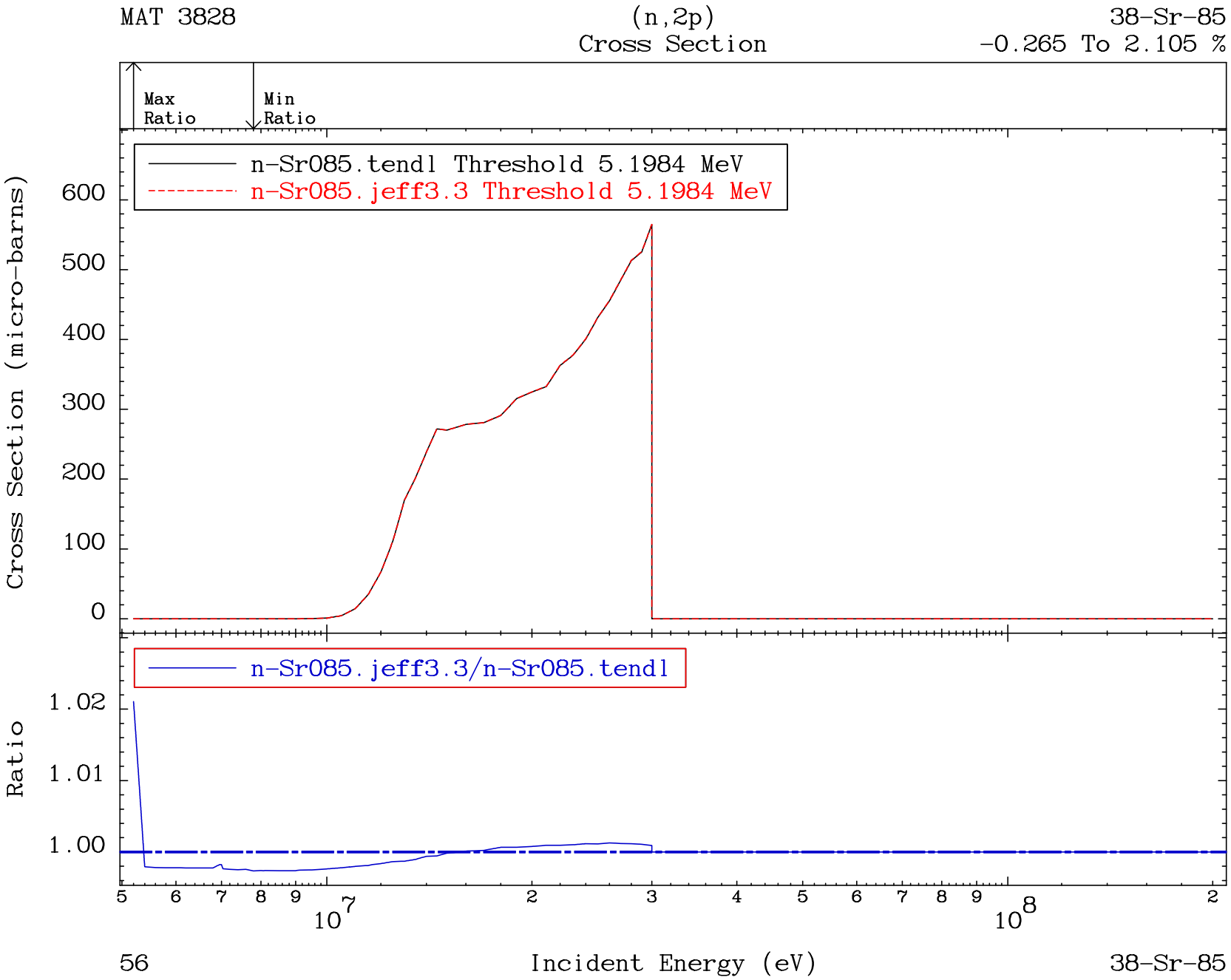

MAT 3828
(n,d)
Cross Section
38-Sr-85
0.000 To 0.032 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 6.4848 MeV
n-Sr085.jeff3.3 Threshold 6.4848 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
38-Sr-85

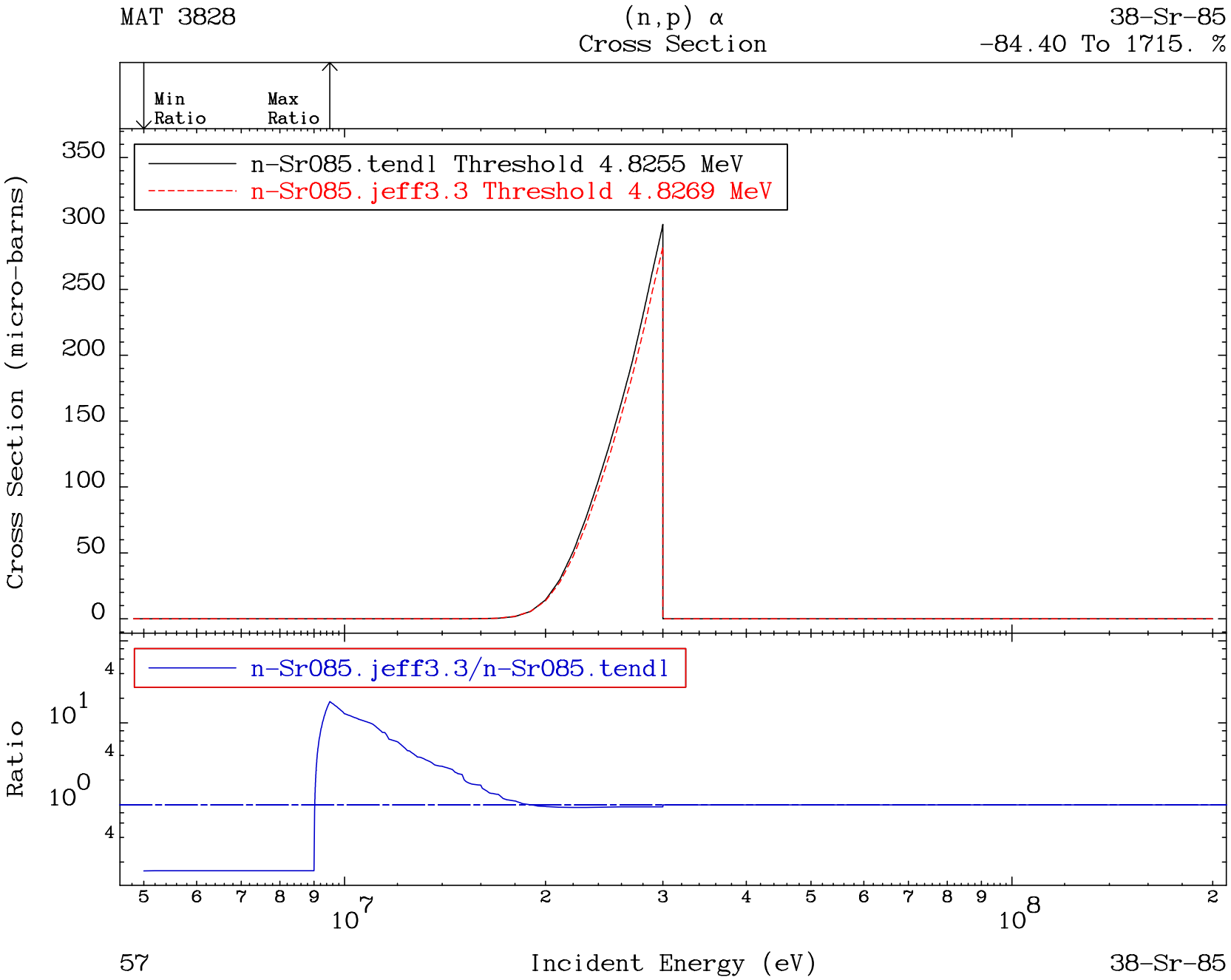

MAT 3828
(n,t)
Cross Section
38-Sr-85
0.000 To 0.412 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 9.0170 MeV
n-Sr085.jeff3.3 Threshold 9.0170 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
1.01
9
10^7
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
38-Sr-85

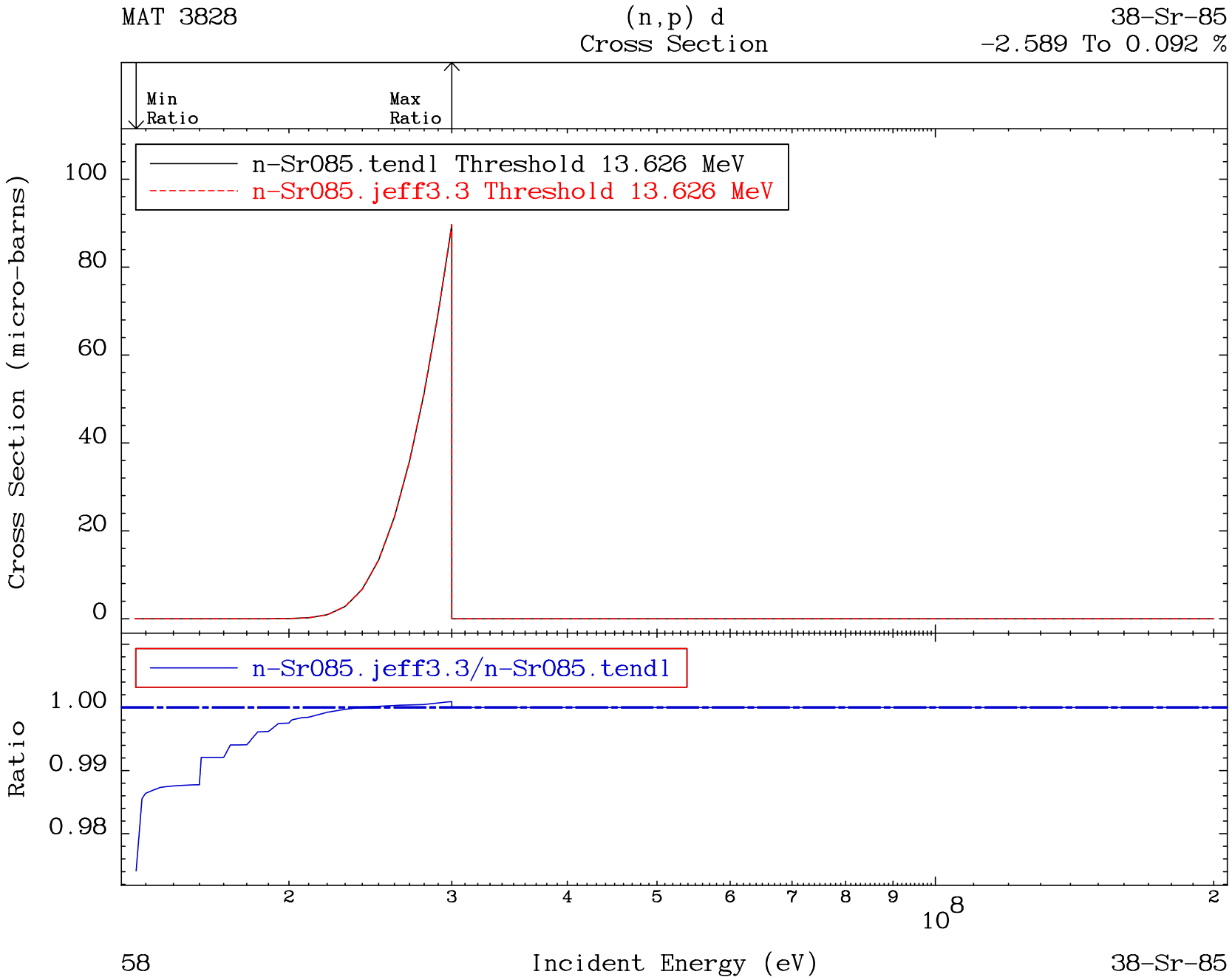

MAT 3828
(n,He-3)
Cross Section
38-Sr-85
-6.525 To 1.069 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.0672 MeV
n-Sr085.jeff3.3 Threshold 8.0672 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
0.96
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
38-Sr-85

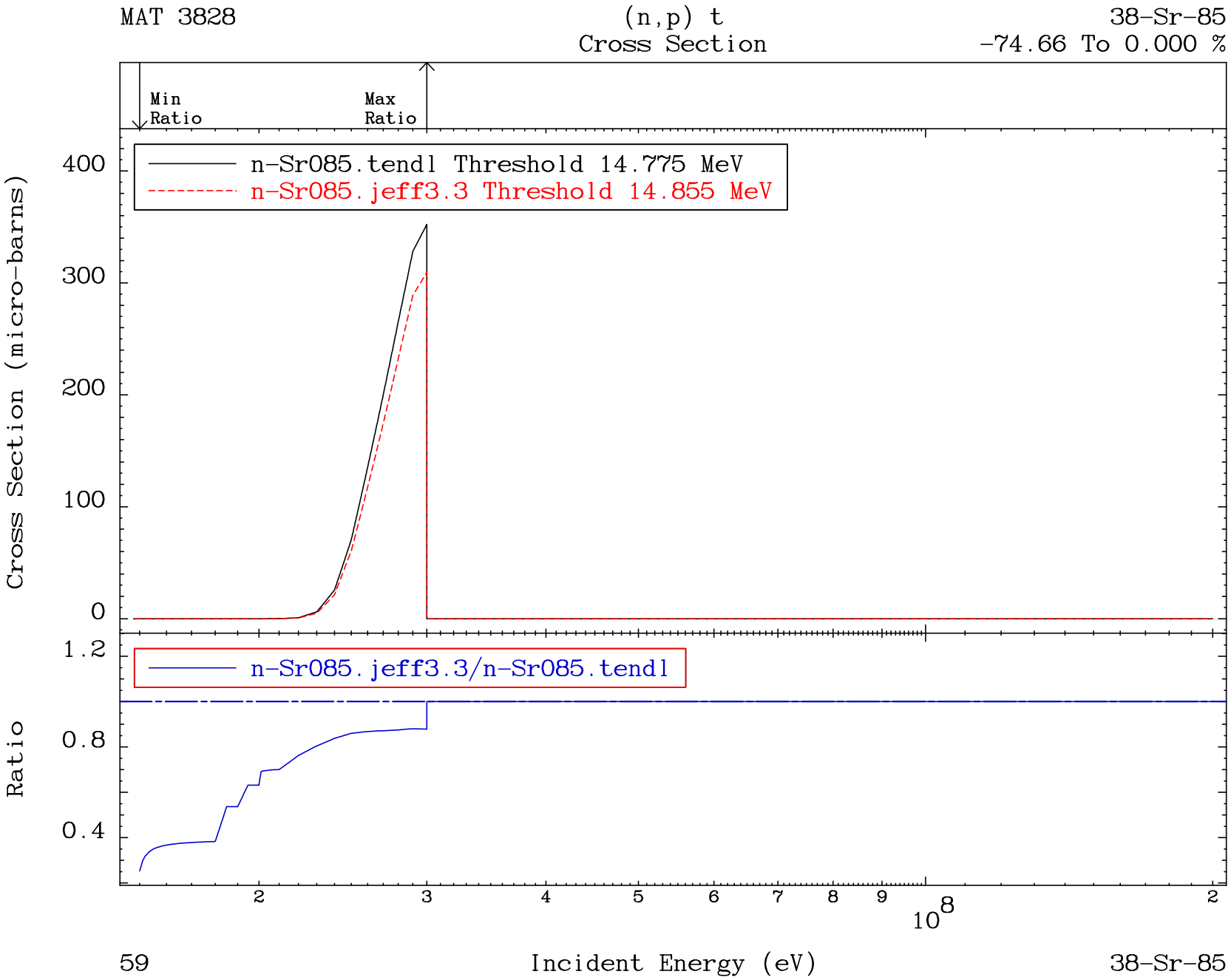

MAT 3828
(n,α)
Cross Section
38-Sr-85
-14.85 To 368.5 %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
54
Incident Energy (eV)
38-Sr-85

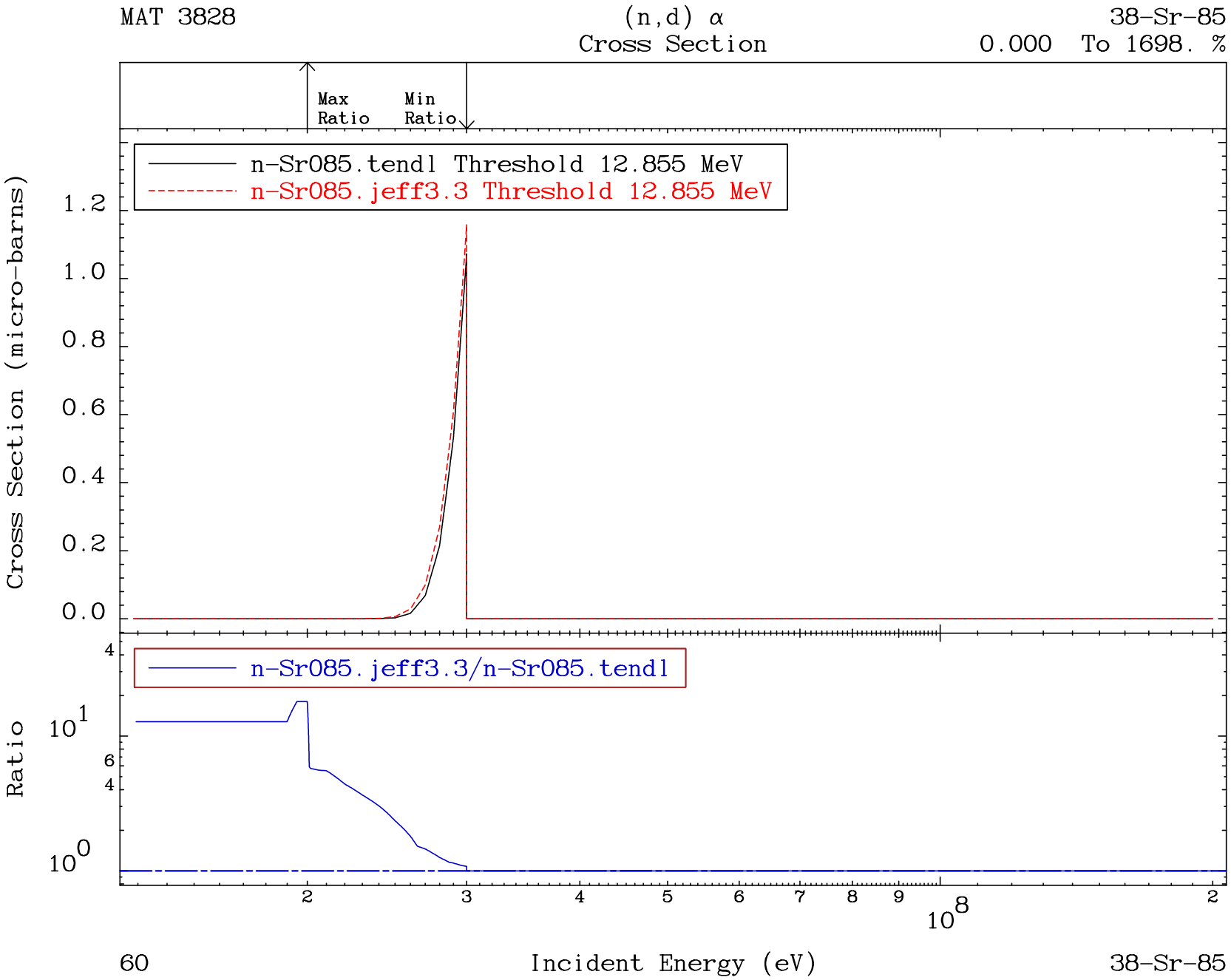

MAT 3828
(n,2α)
Cross Section
38-Sr-85
-92.28 To 6426. %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 866.00 keV
n-Sr085.jeff3.3 Threshold 866.00 keV
Cross Section (micro-barns)
0
2
4
6
8
10
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^2
10^1
10^0
10^-1
10^6
10^7
10^8
Incident Energy (eV)
55
38-Sr-85

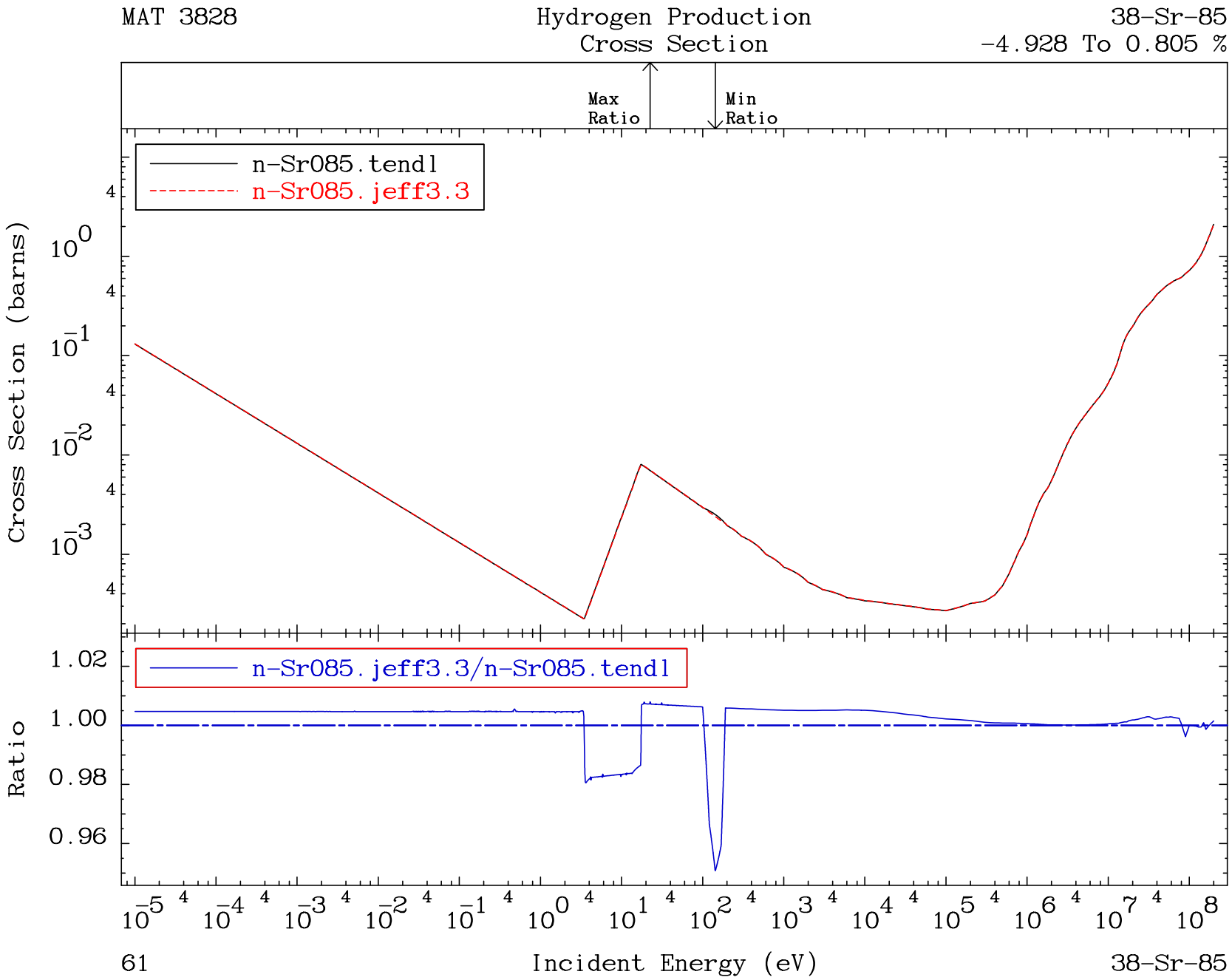

MAT 3828
(n,2p)
Cross Section
38-Sr-85
-0.265 To 2.105 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 5.1984 MeV
n-Sr085.jeff3.3 Threshold 5.1984 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.02
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
38-Sr-85

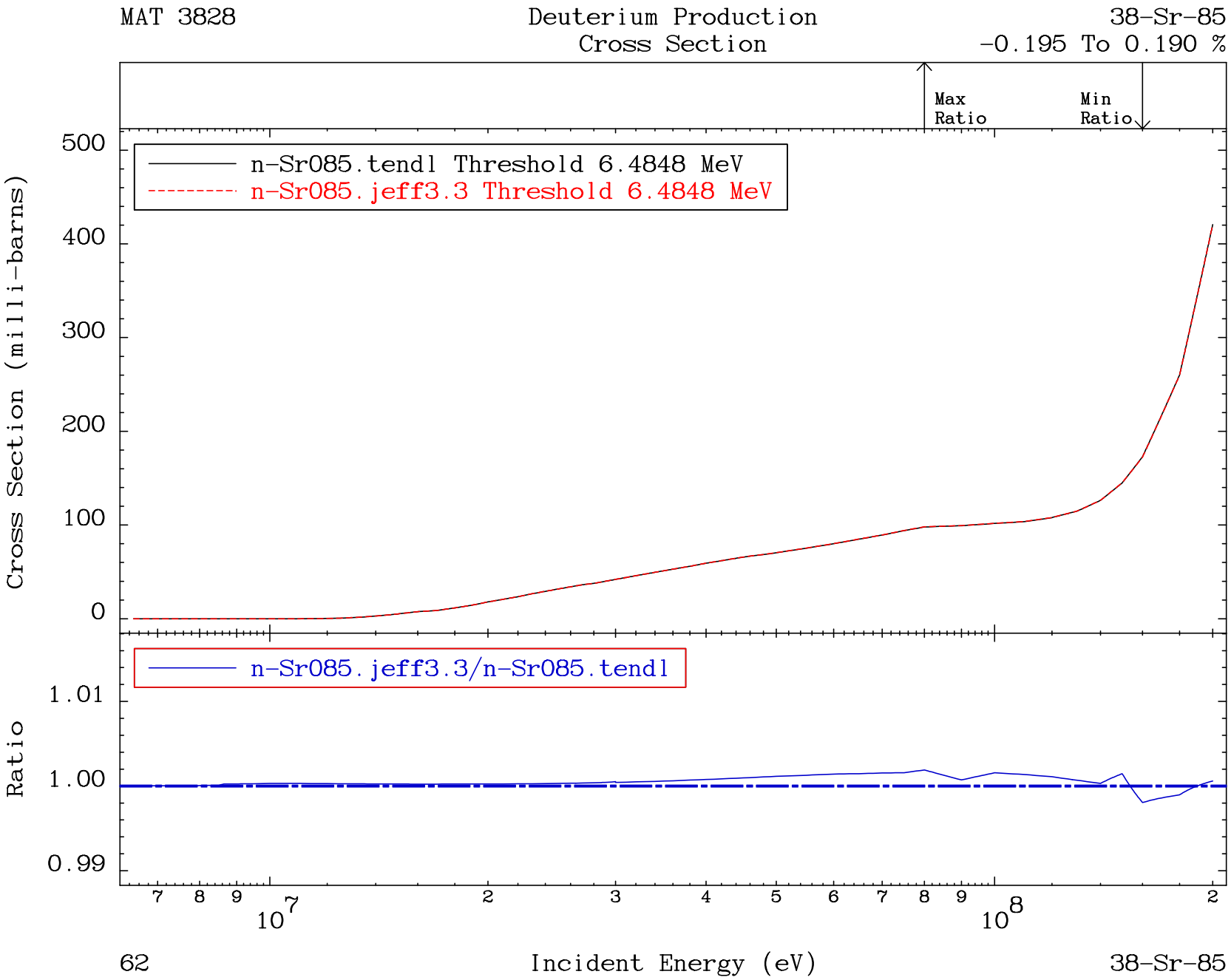

MAT 3828
(n,p) α
Cross Section
38-Sr-85
-84.40 To 1715. %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 4.8255 MeV
n-Sr085.jeff3.3 Threshold 4.8269 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
38-Sr-85

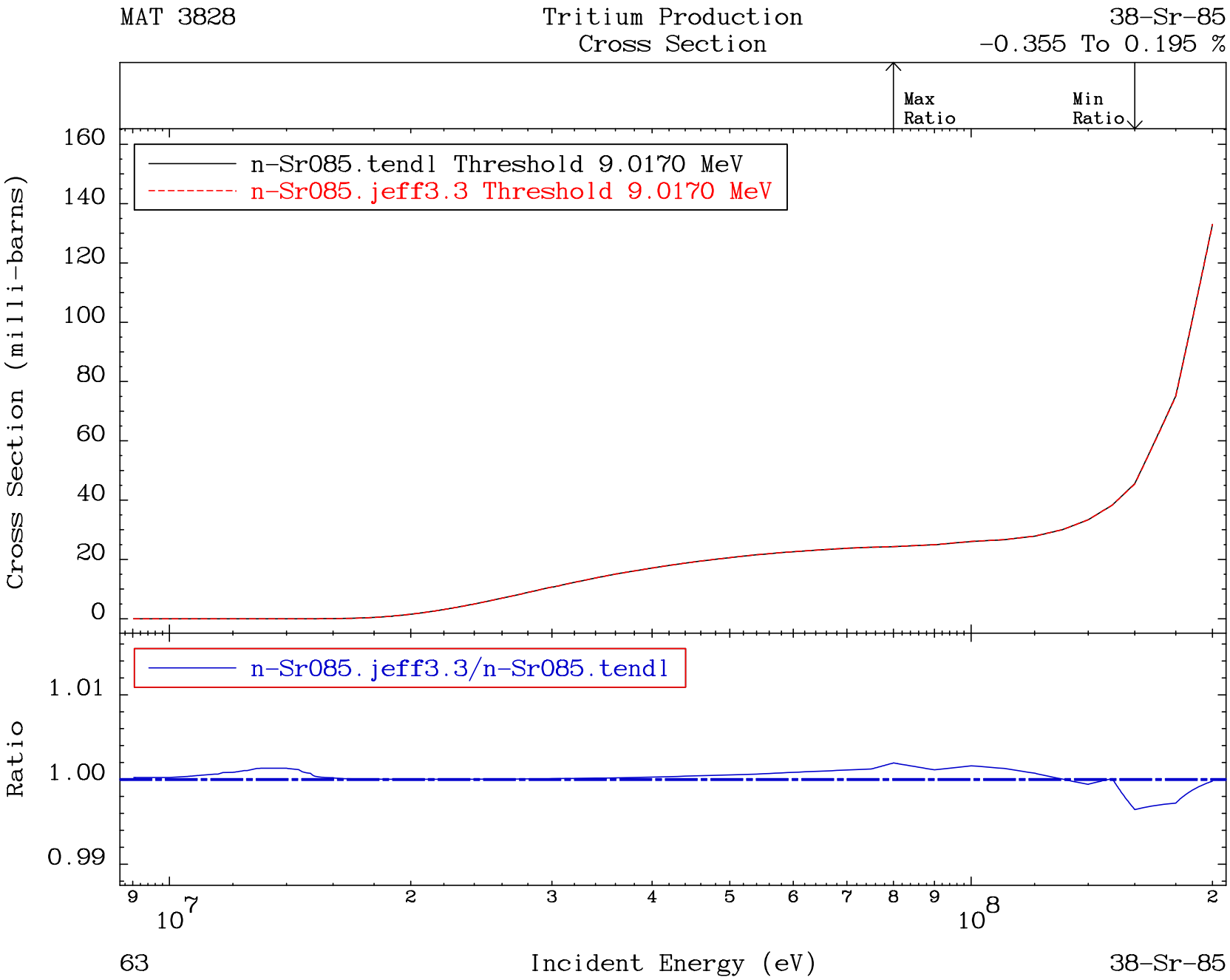

MAT 3828
(n,p) d
Cross Section
38-Sr-85
-2.589 To 0.092 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 13.626 MeV
n-Sr085.jeff3.3 Threshold 13.626 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
38-Sr-85

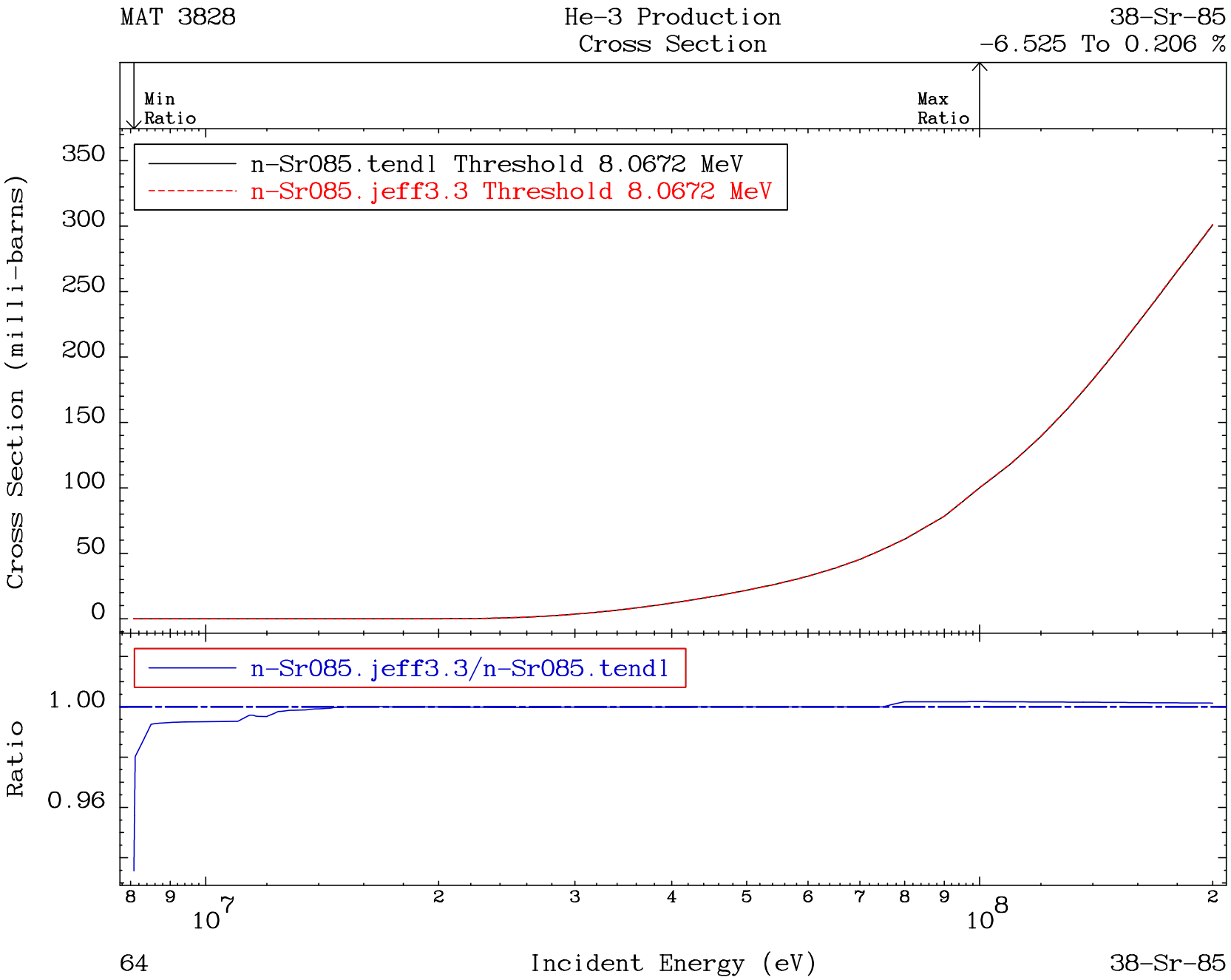

MAT 3828
(n,p) t
Cross Section
38-Sr-85
-74.66 To 0.000 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 14.775 MeV
n-Sr085.jeff3.3 Threshold 14.855 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
38-Sr-85

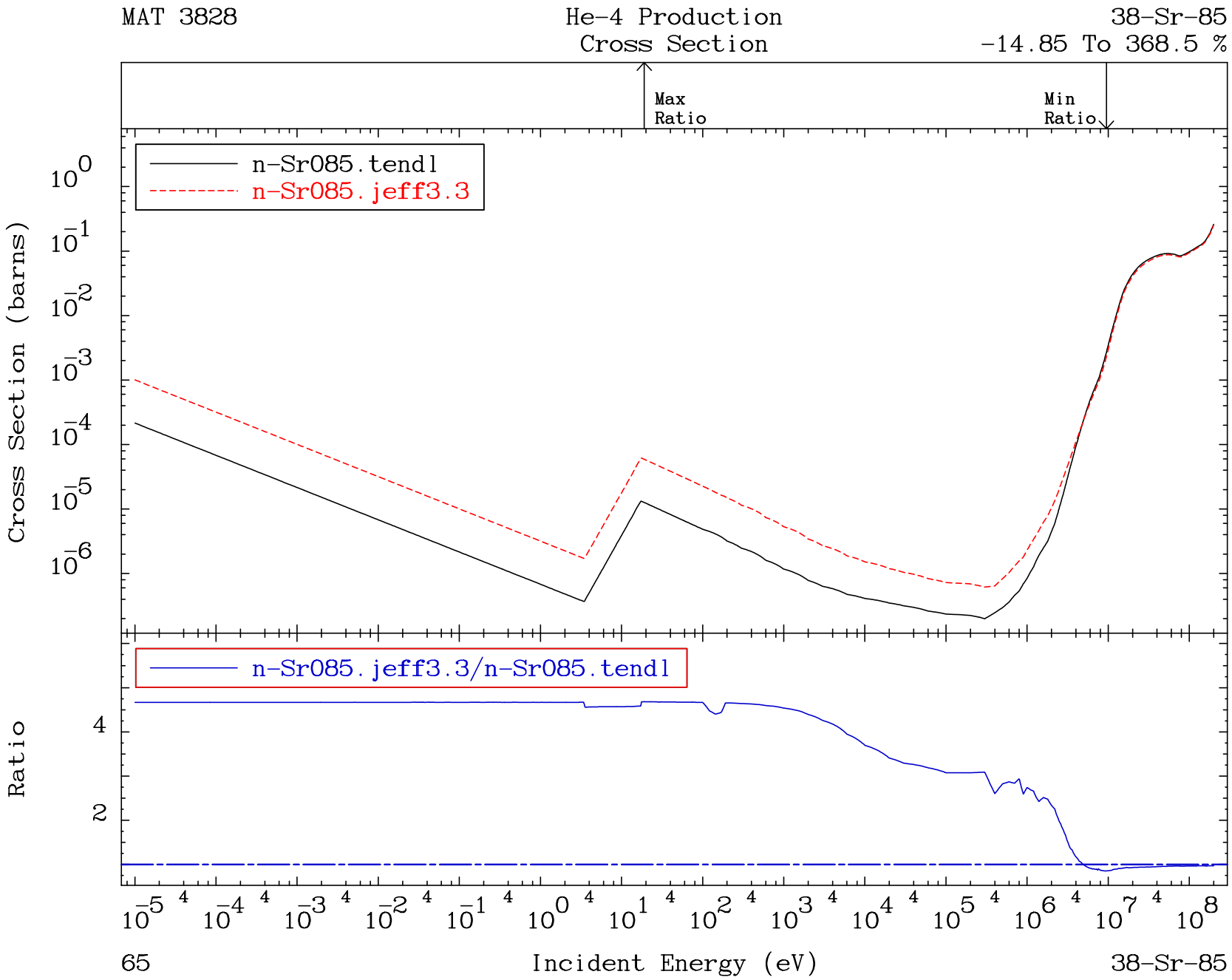

MAT 3828
(n,d) α
Cross Section
38-Sr-85
0.000 To 1698. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 12.855 MeV
n-Sr085.jeff3.3 Threshold 12.855 MeV
Cross Section (micro-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
4
10^1
6
4
10^0
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
38-Sr-85

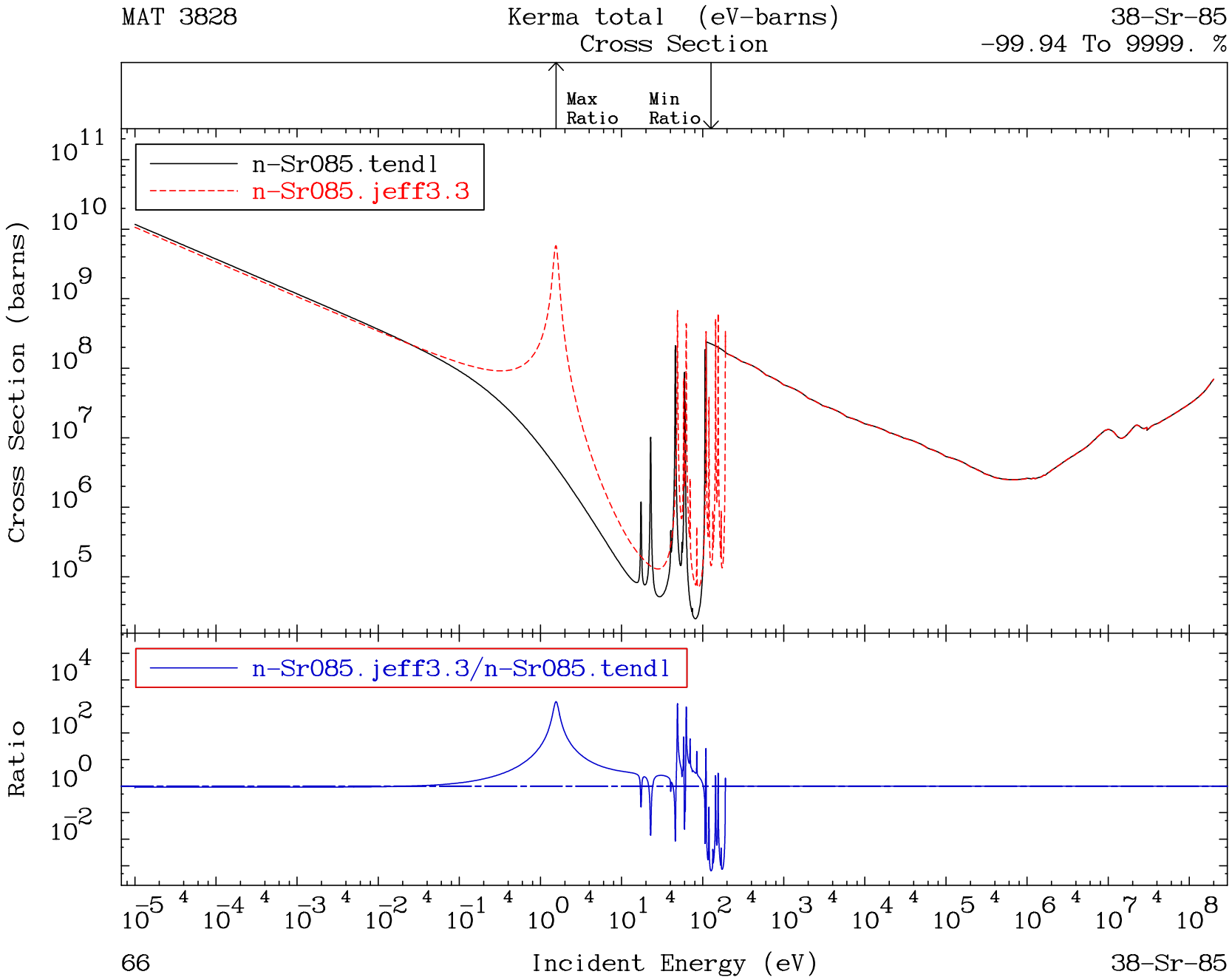

MAT 3828
Hydrogen Production
Cross Section
38-Sr-85
-4.928 To 0.805 %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
61
38-Sr-85

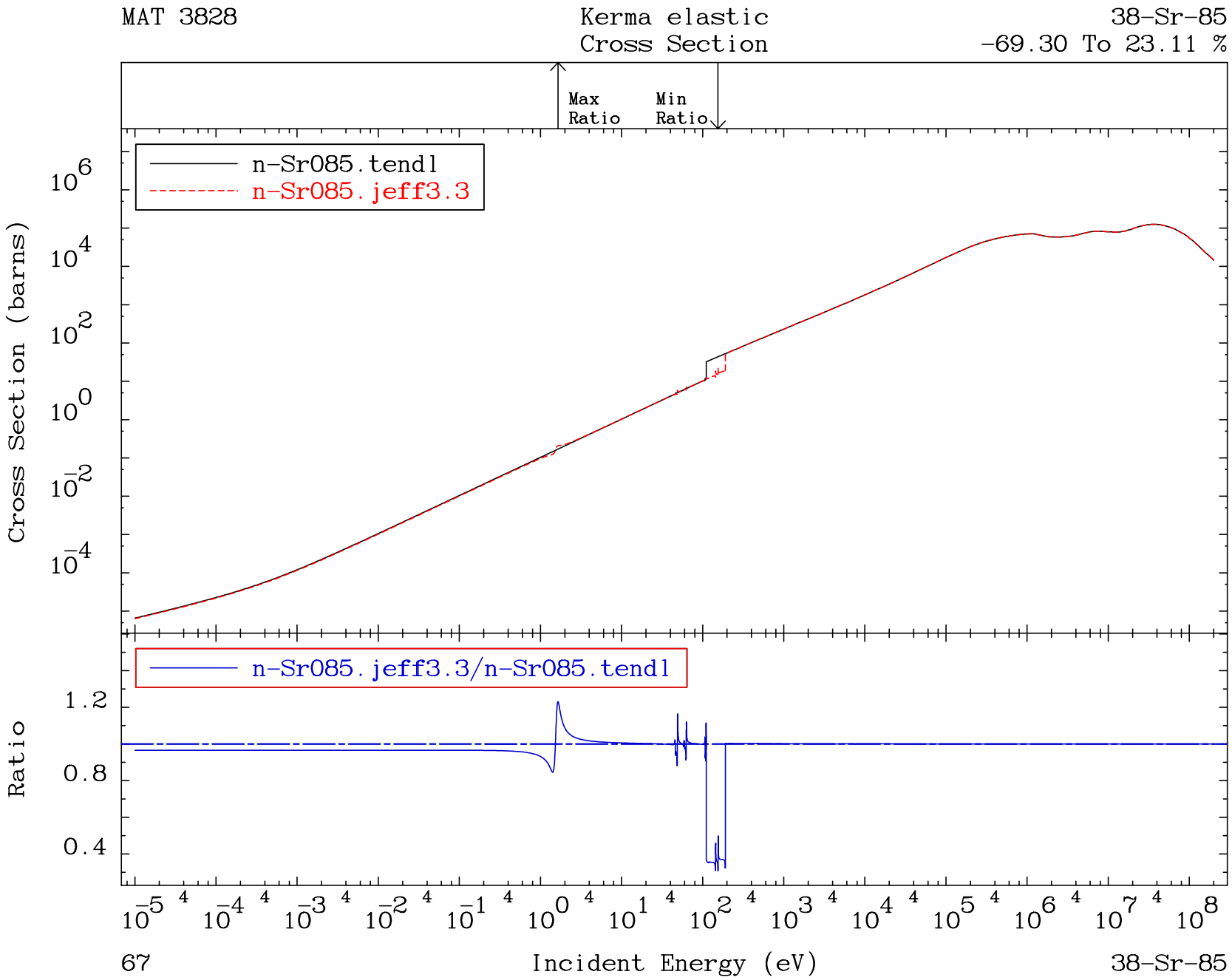

MAT 3828
Deuterium Production
Cross Section
38-Sr-85
-0.195 To 0.190 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 6.4848 MeV
n-Sr085.jeff3.3 Threshold 6.4848 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
38-Sr-85

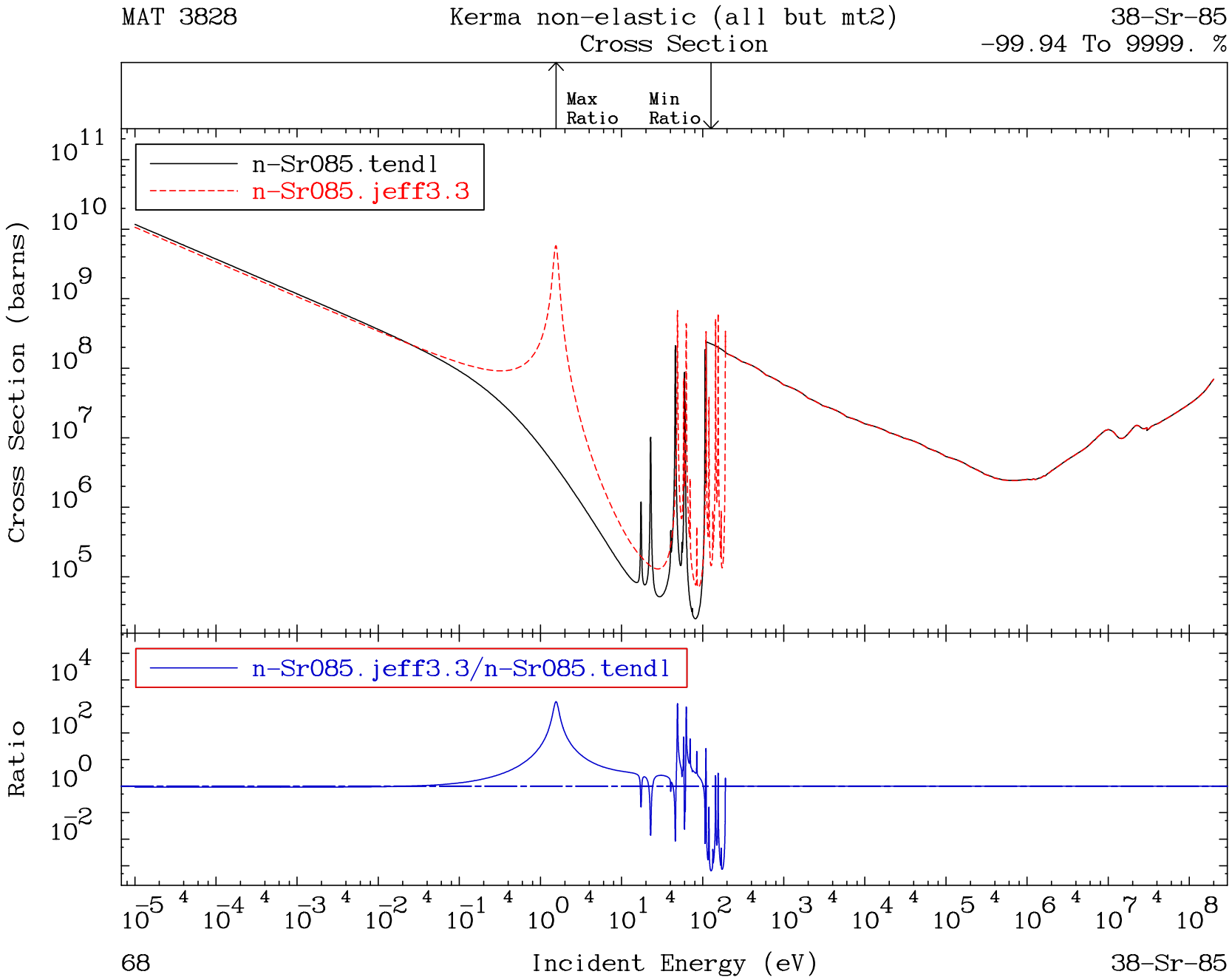

MAT 3828
Tritium Production
Cross Section
38-Sr-85
-0.355 To 0.195 %
Max
Ratio
Min
Ratio
n-Sr085.tendl Threshold 9.0170 MeV
n-Sr085.jeff3.3 Threshold 9.0170 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
38-Sr-85

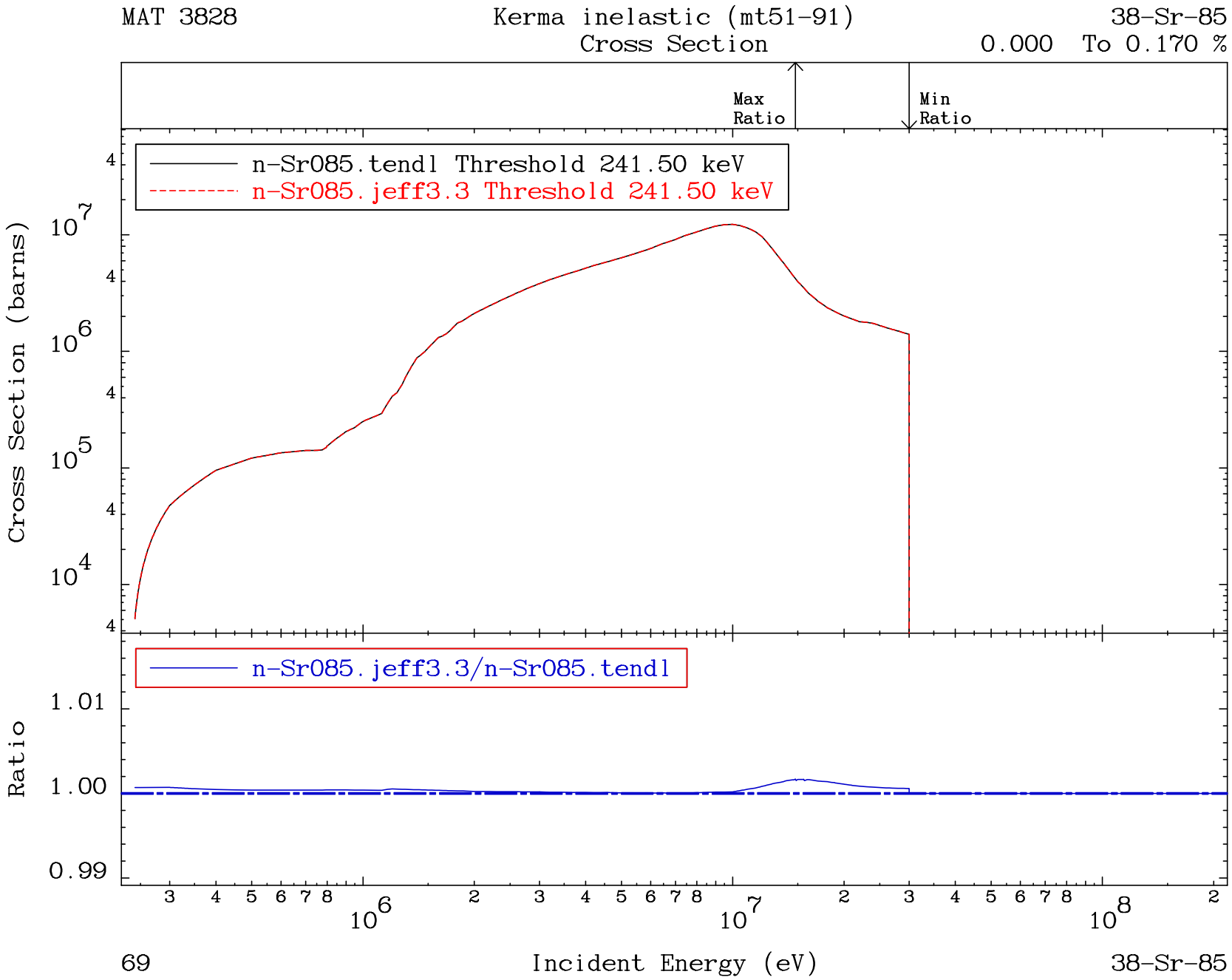

MAT 3828
He-3 Production
Cross Section
38-Sr-85
-6.525 To 0.206 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.0672 MeV
n-Sr085.jeff3.3 Threshold 8.0672 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
0.96
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
64
Incident Energy (eV)
38-Sr-85

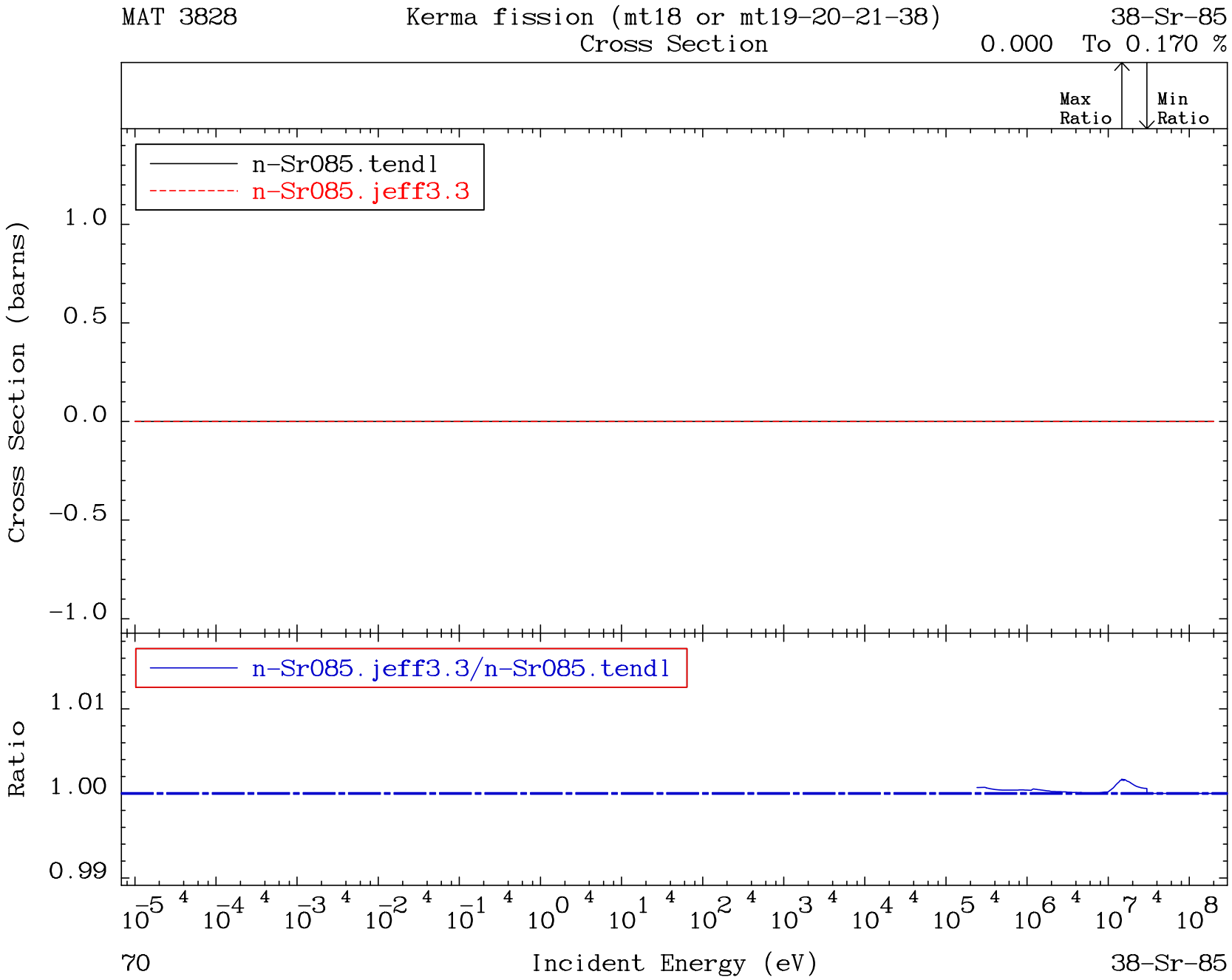

MAT 3828
He-4 Production
Cross Section
38-Sr-85
-14.85 To 368.5 %
Max
Ratio
Min
Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
65
38-Sr-85

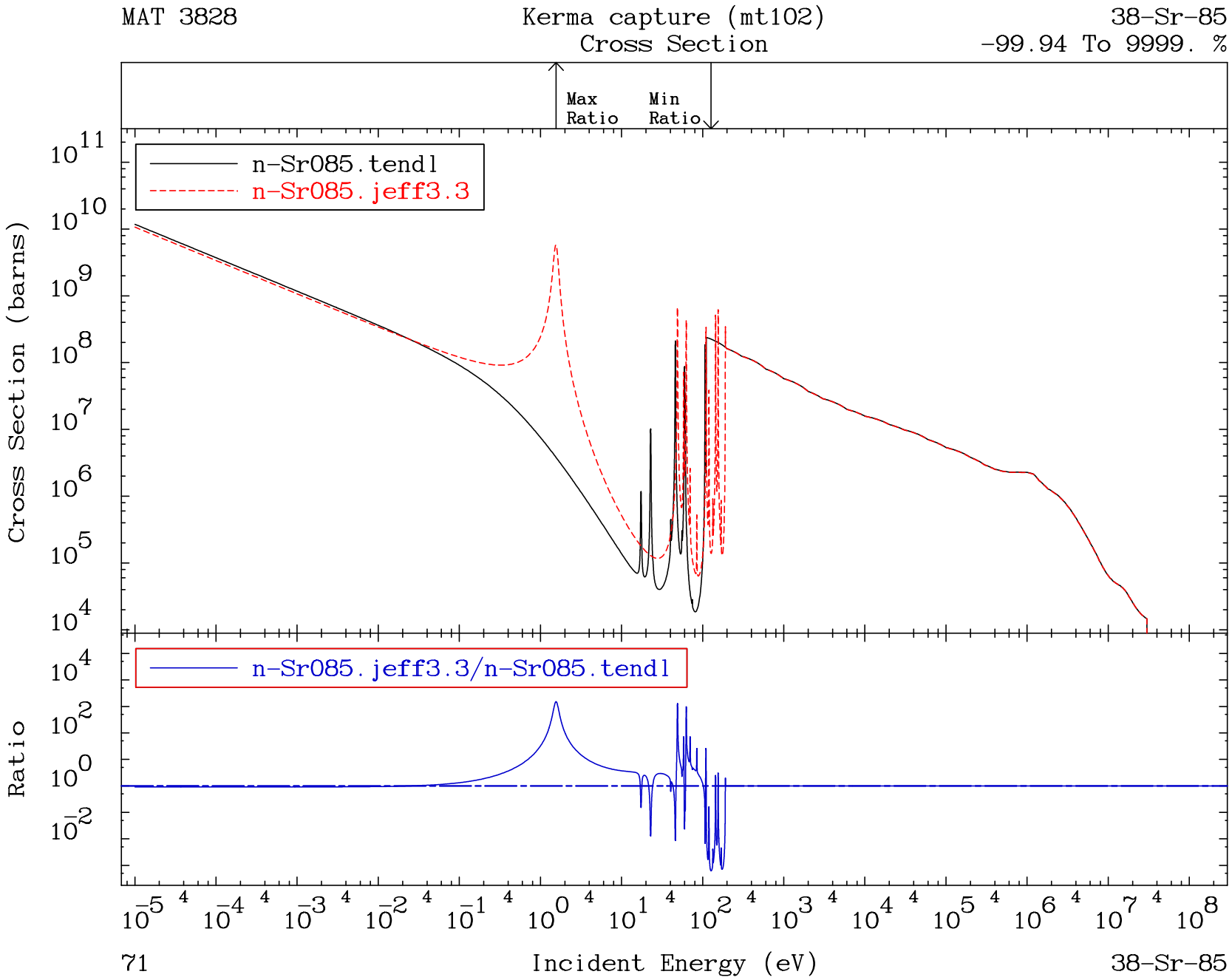

MAT 3828
Kerma total (eV-barns)
Cross Section
38-Sr-85
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
66
Incident Energy (eV)
38-Sr-85

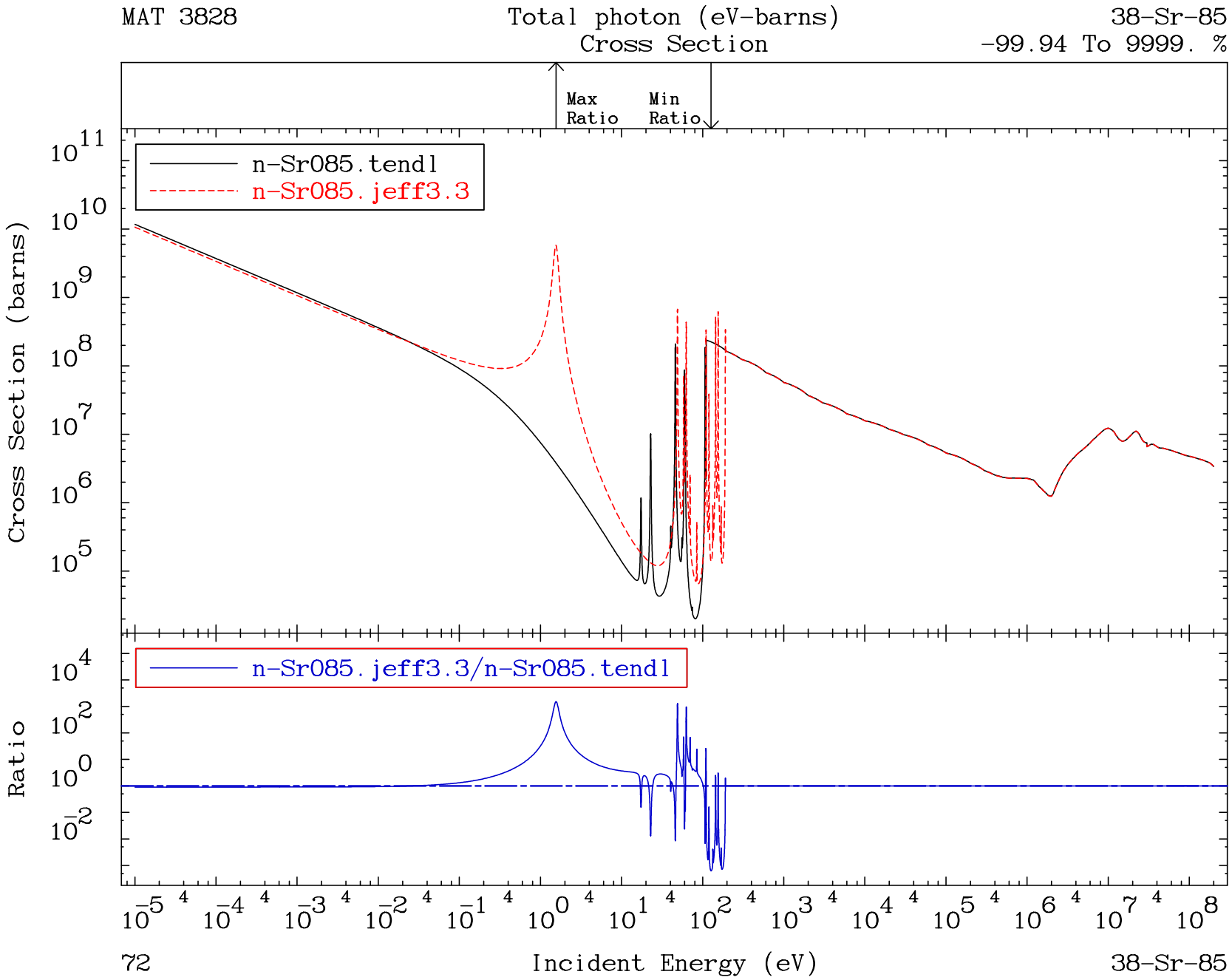

MAT 3828
Kerma elastic
Cross Section
38-Sr-85
-69.30 To 23.11 %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
67
38-Sr-85

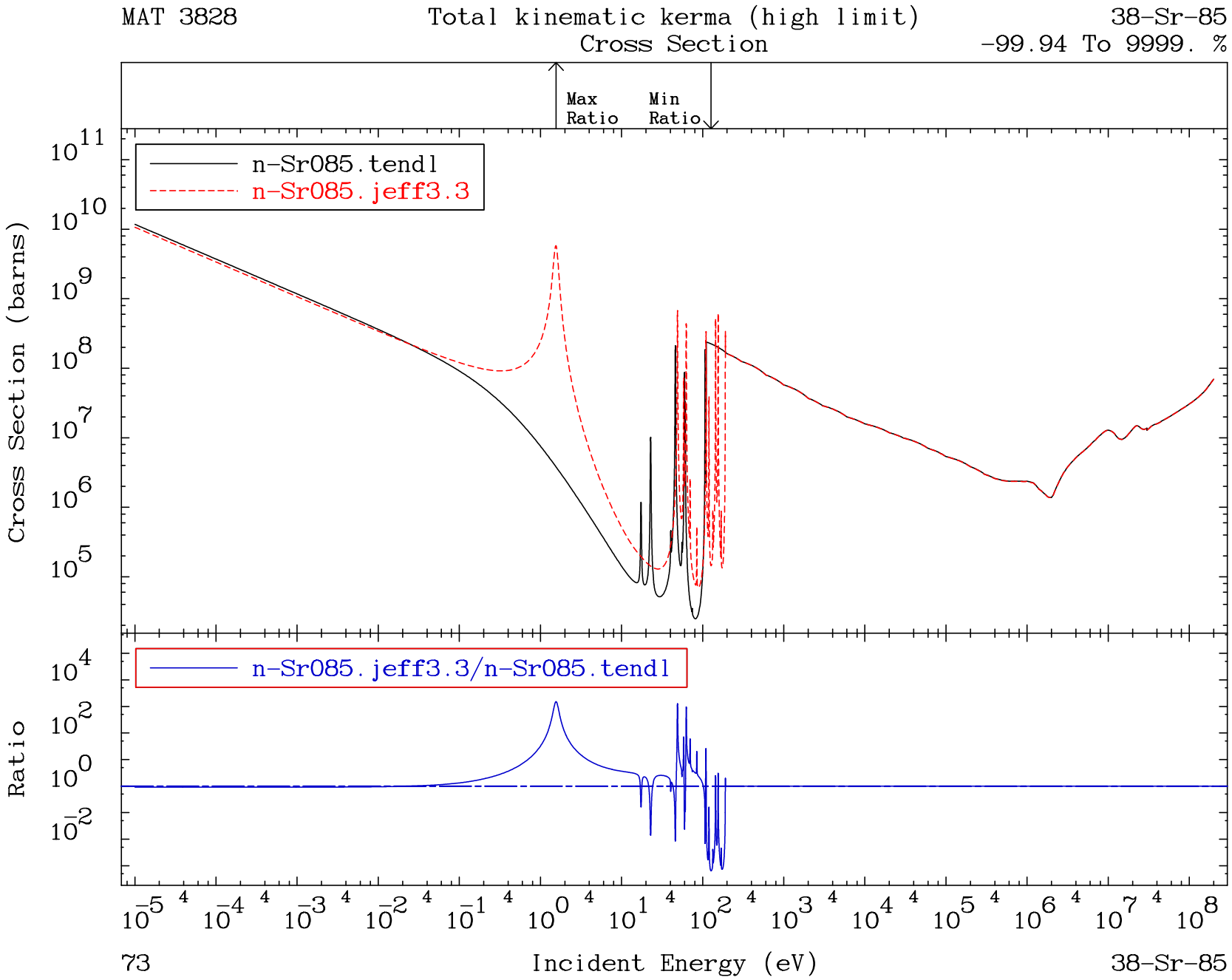

MAT 3828
Kerma non-elastic (all but mt2)
Cross Section
38-Sr-85
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
68
38-Sr-85

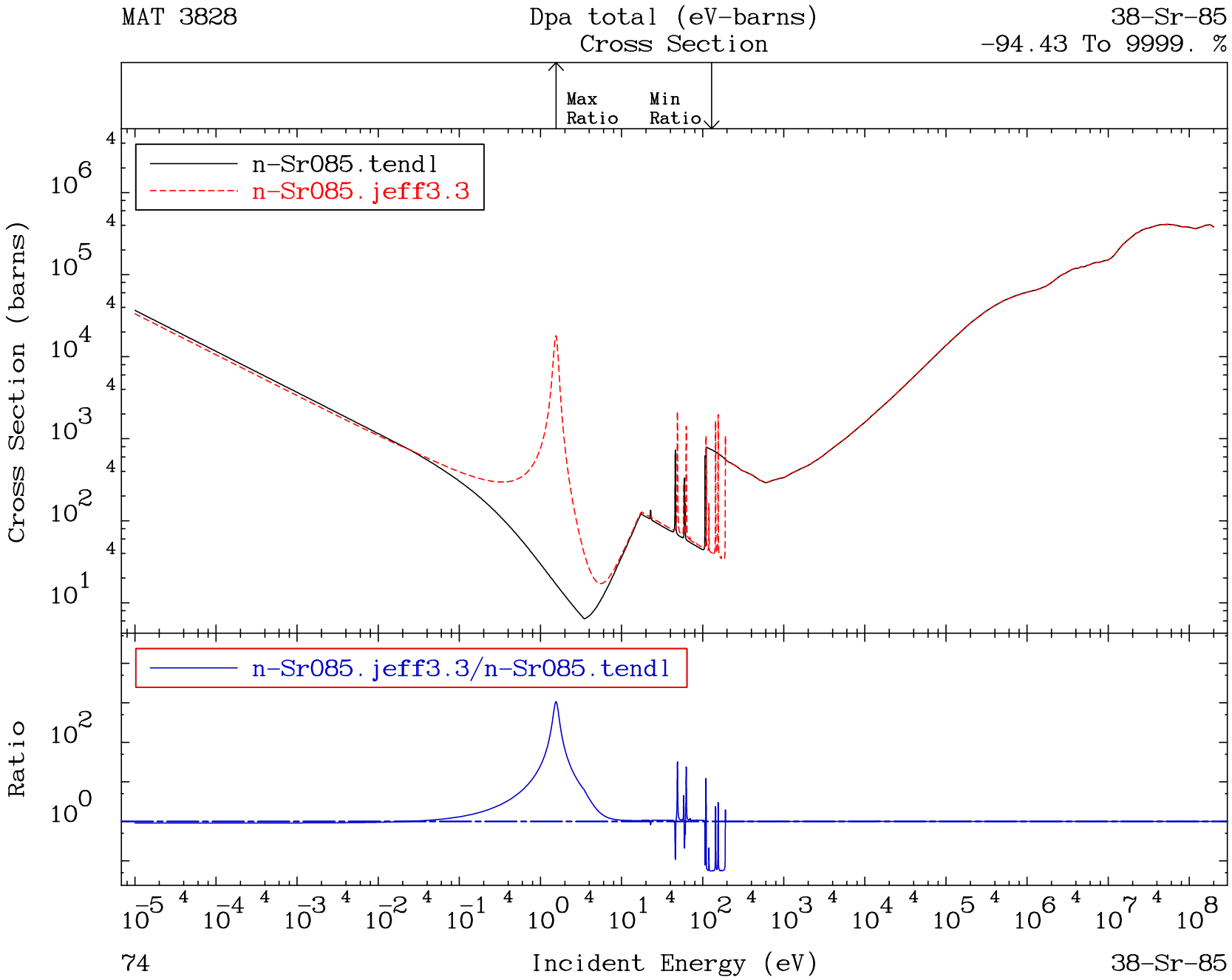

MAT 3828
Kerma inelastic (mt51-91)
Cross Section
38-Sr-85
0.000 To 0.170 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 241.50 keV
n-Sr085.jeff3.3 Threshold 241.50 keV
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
69
38-Sr-85

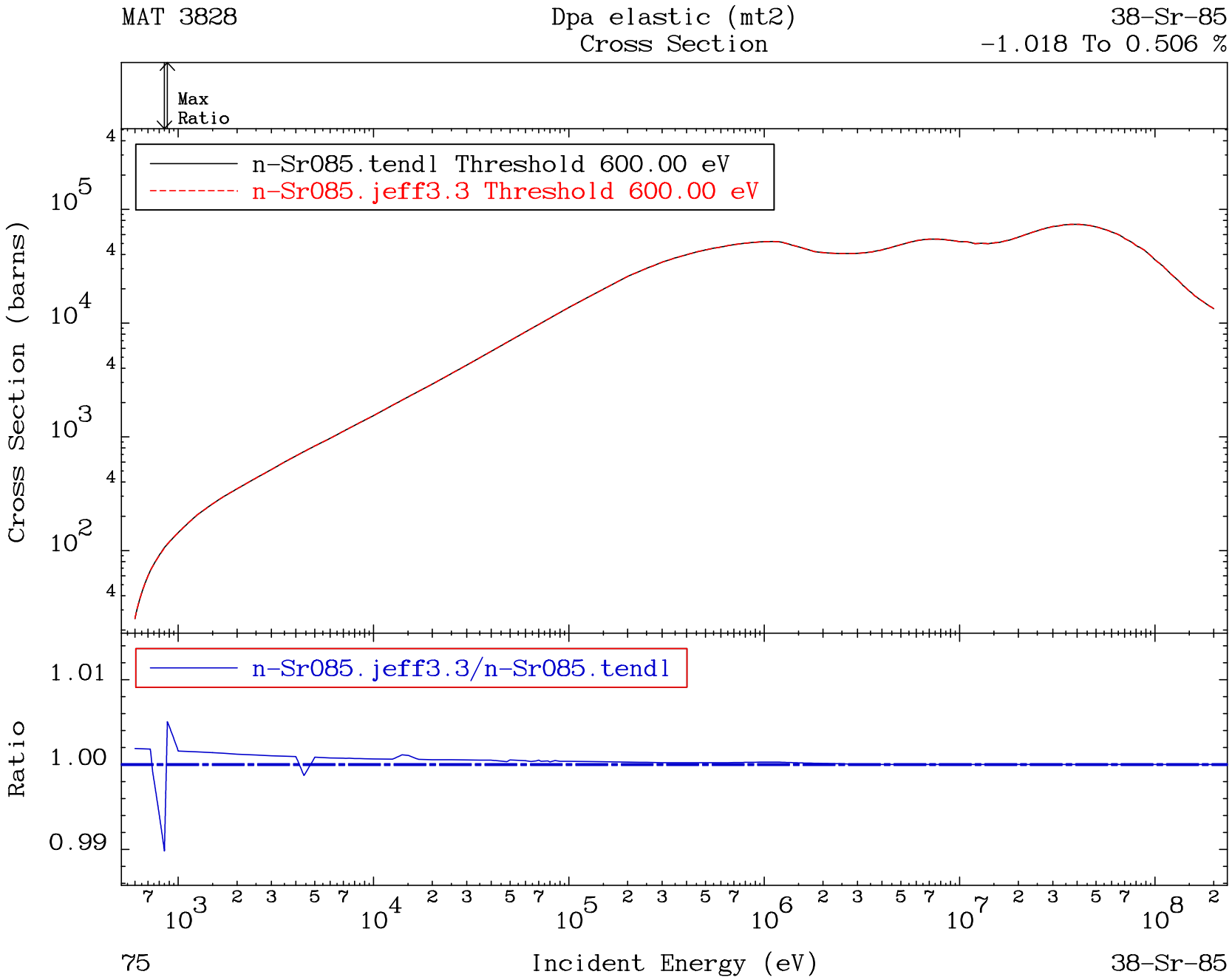

MAT 3828
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
38-Sr-85
0.000 To 0.170 %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
70
Incident Energy (eV)
38-Sr-85

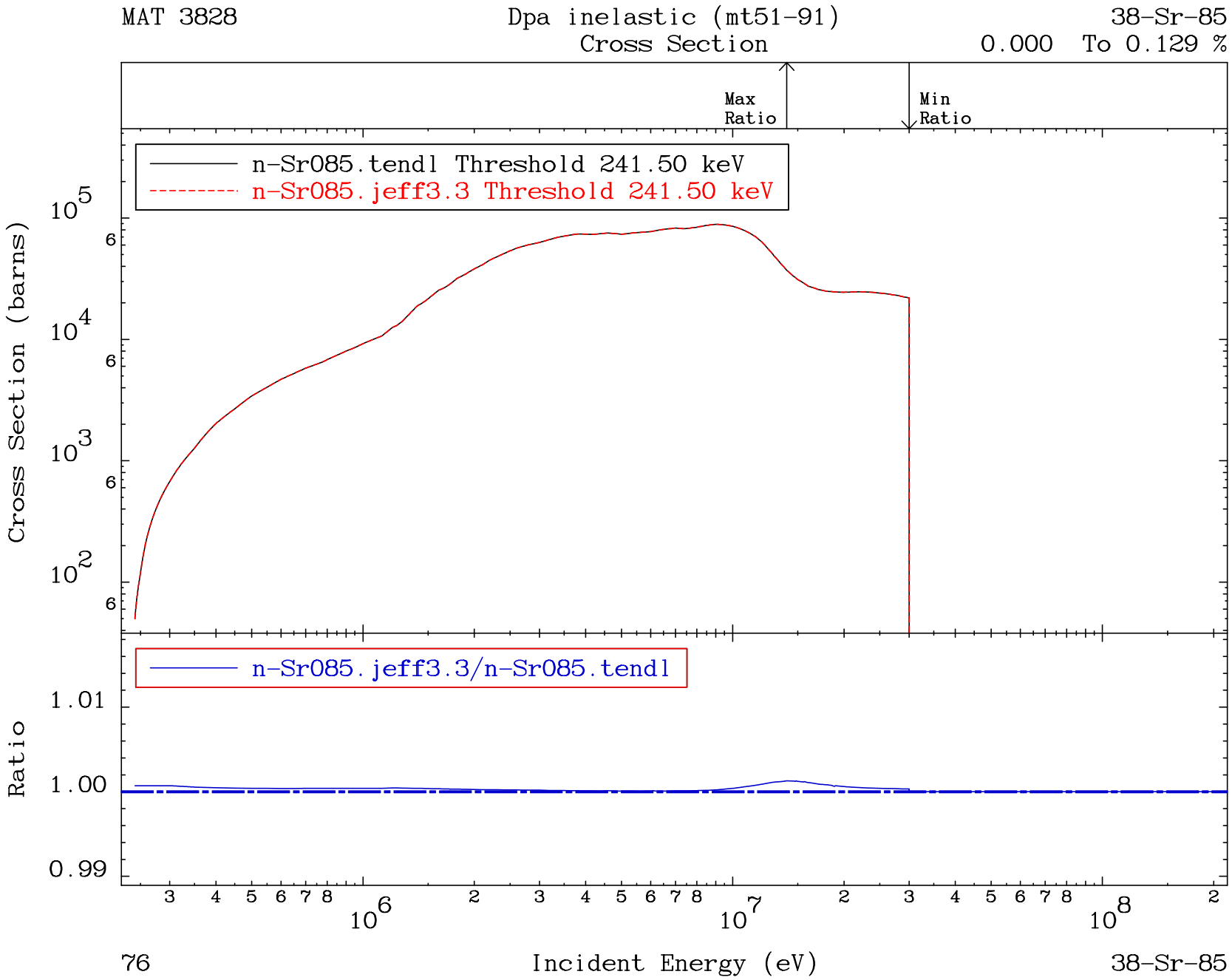

MAT 3828
Kerma capture (mt102)
Cross Section
38-Sr-85
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
71
38-Sr-85

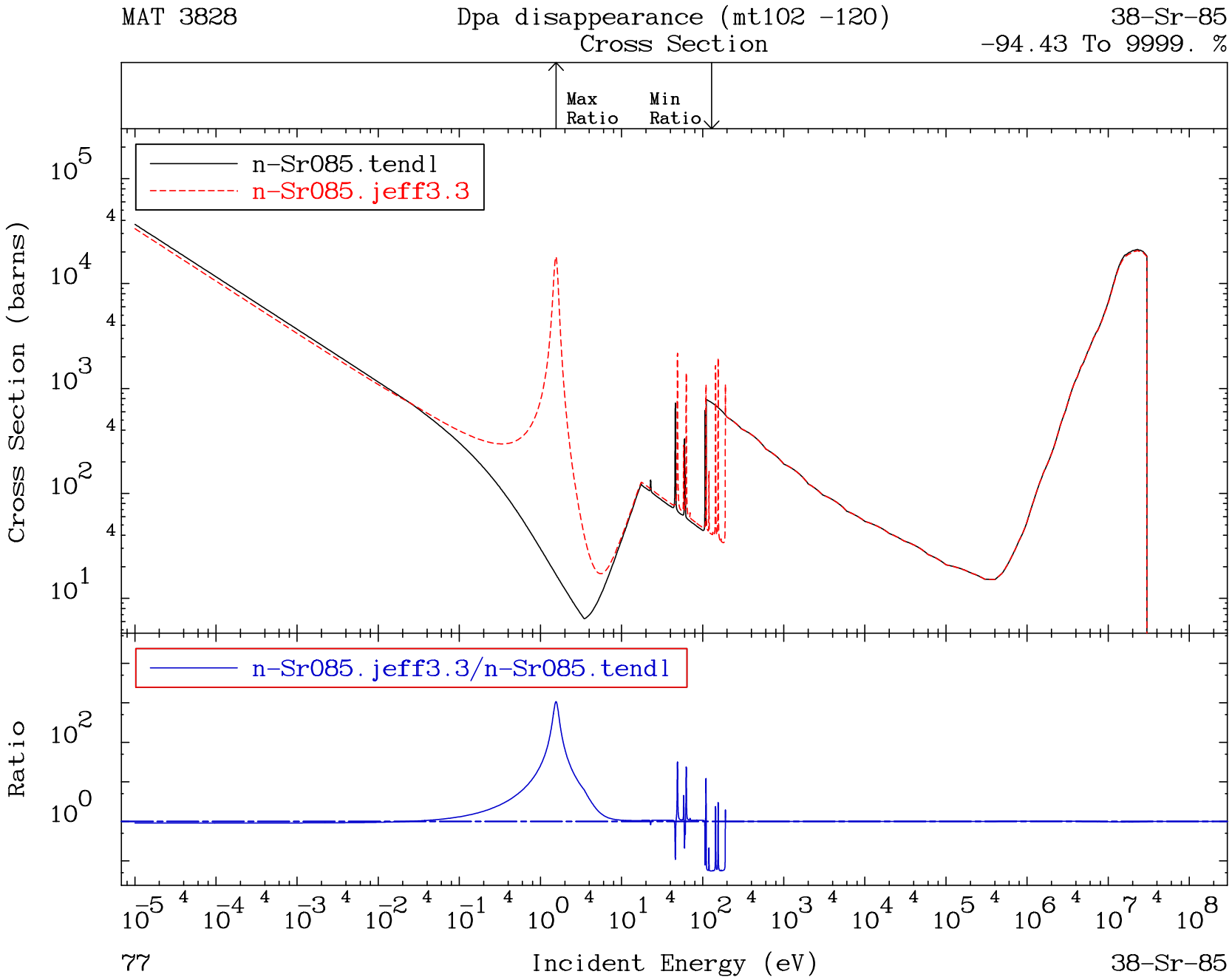

MAT 3828
Total photon (eV-barns)
Cross Section
38-Sr-85
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
72
38-Sr-85

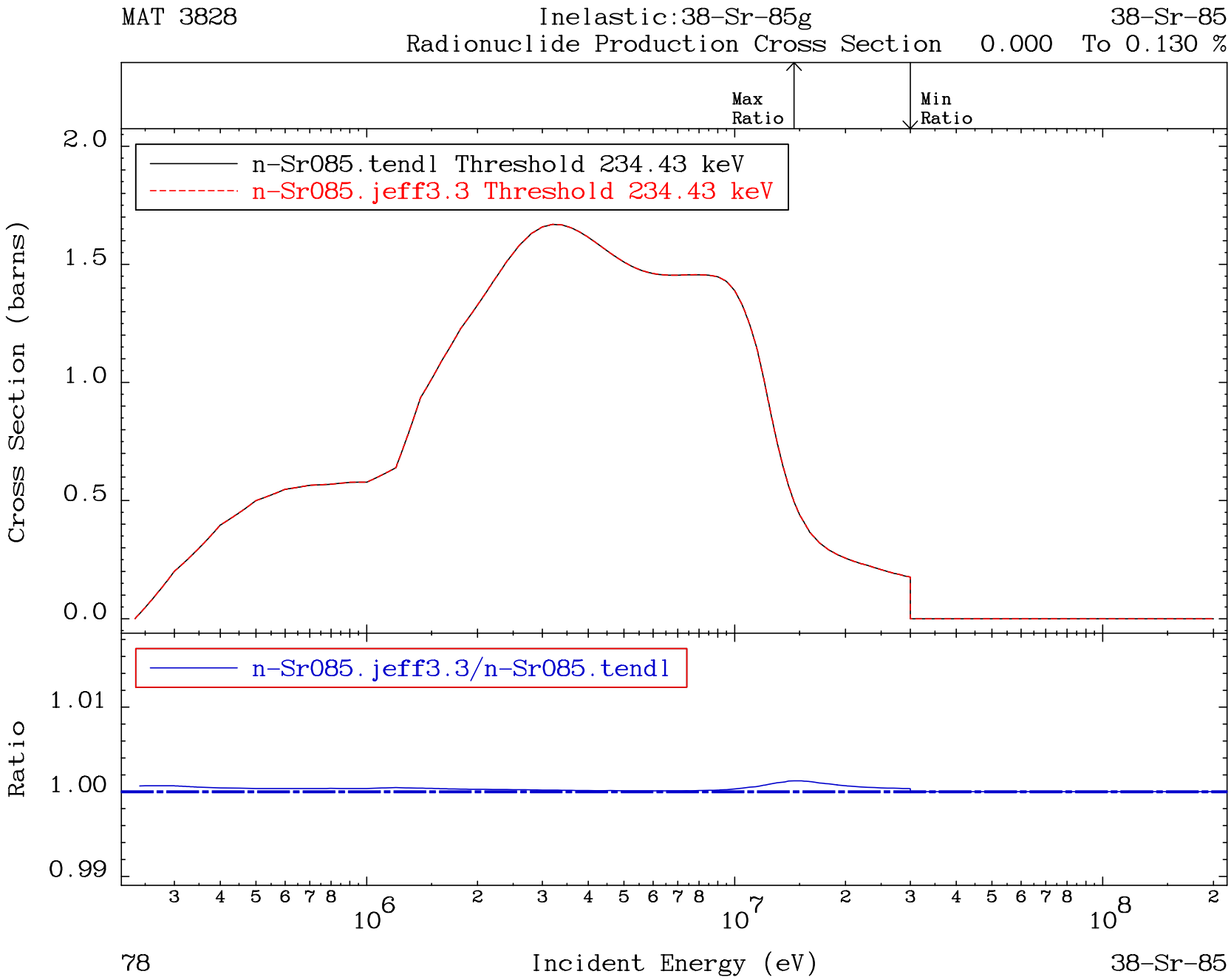

MAT 3828
Total kinematic kerma (high limit)
Cross Section
38-Sr-85
-99.94 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
73
Incident Energy (eV)
38-Sr-85

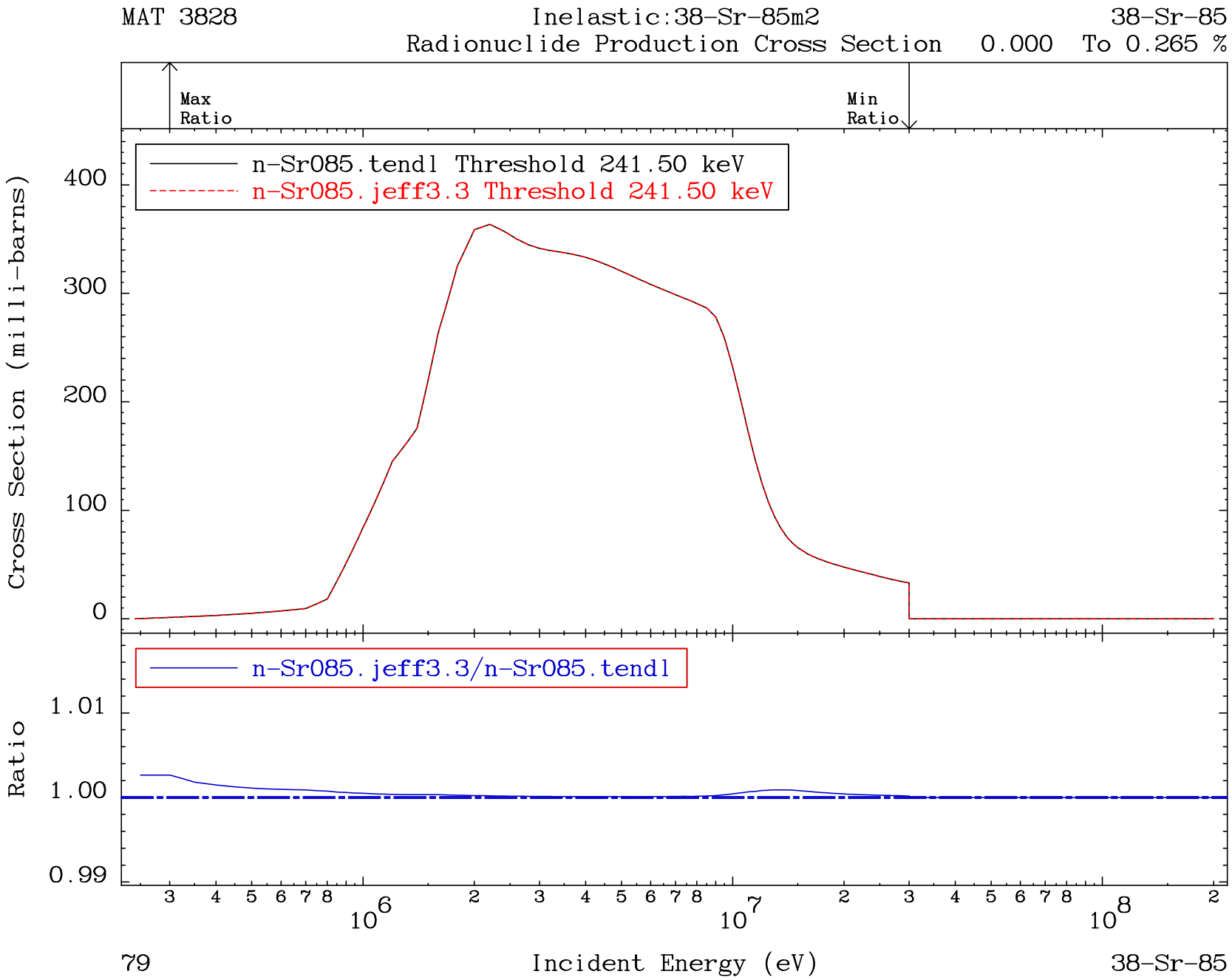

MAT 3828
Dpa total (eV-barns)
Cross Section
38-Sr-85
-94.43 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
74
38-Sr-85

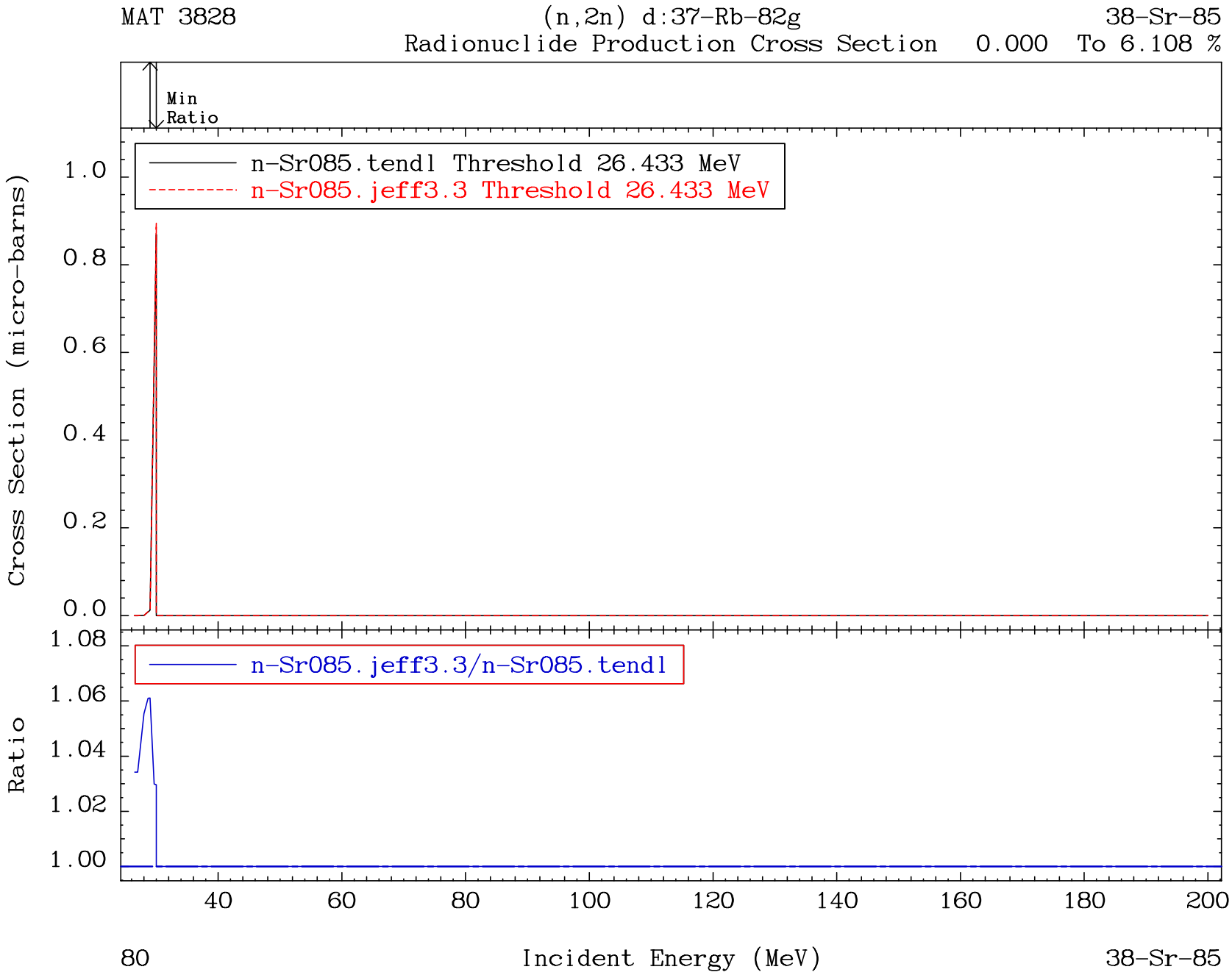

MAT 3828
Dpa elastic (mt2)
Cross Section
38-Sr-85
-1.018 To 0.506 %
Max
Ratio
n-Sr085.tendl Threshold 600.00 eV
n-Sr085.jeff3.3 Threshold 600.00 eV
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
75
38-Sr-85

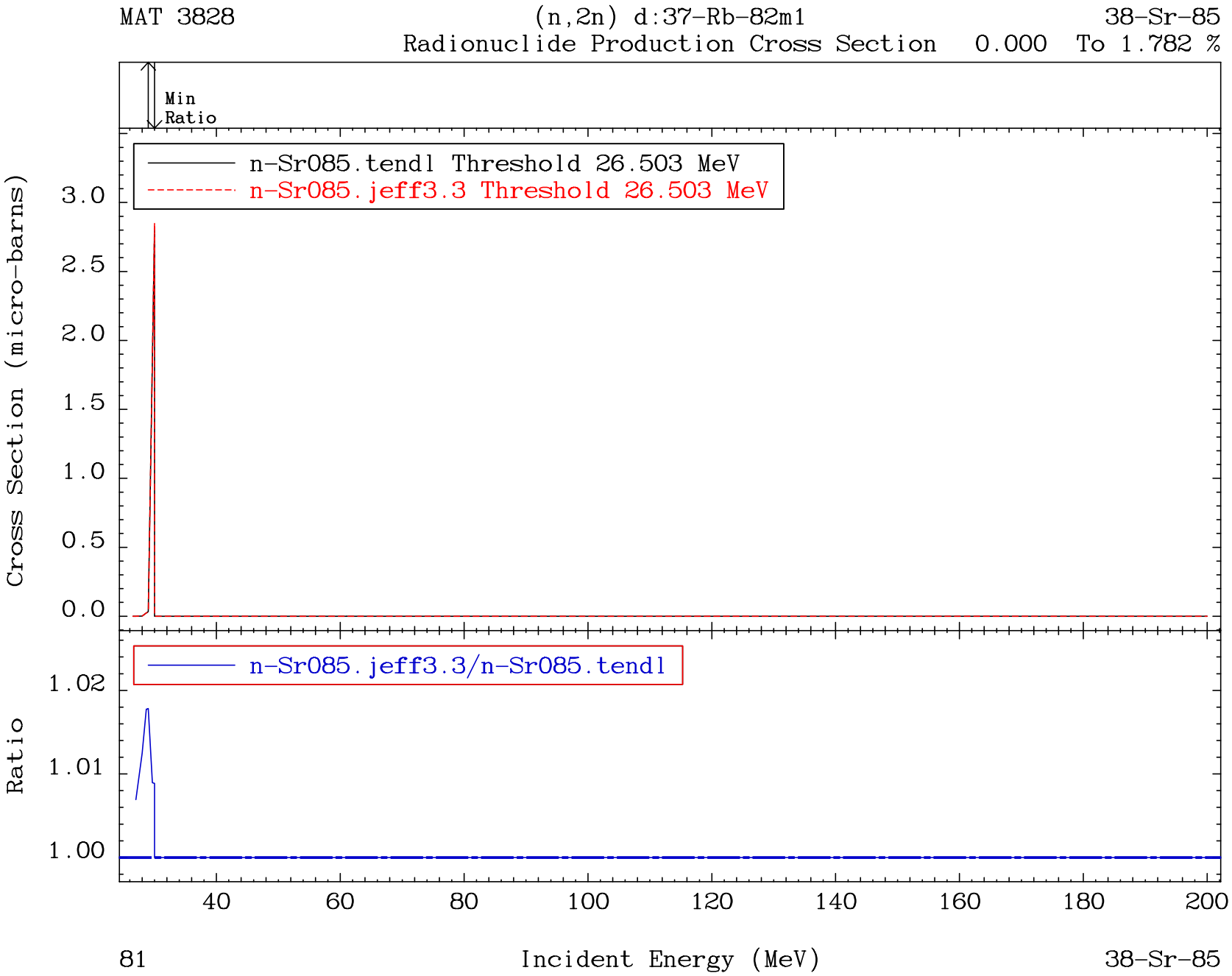

MAT 3828
Dpa inelastic (mt51-91)
Cross Section
38-Sr-85
0.000 To 0.129 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 241.50 keV
n-Sr085.jeff3.3 Threshold 241.50 keV
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
76
38-Sr-85

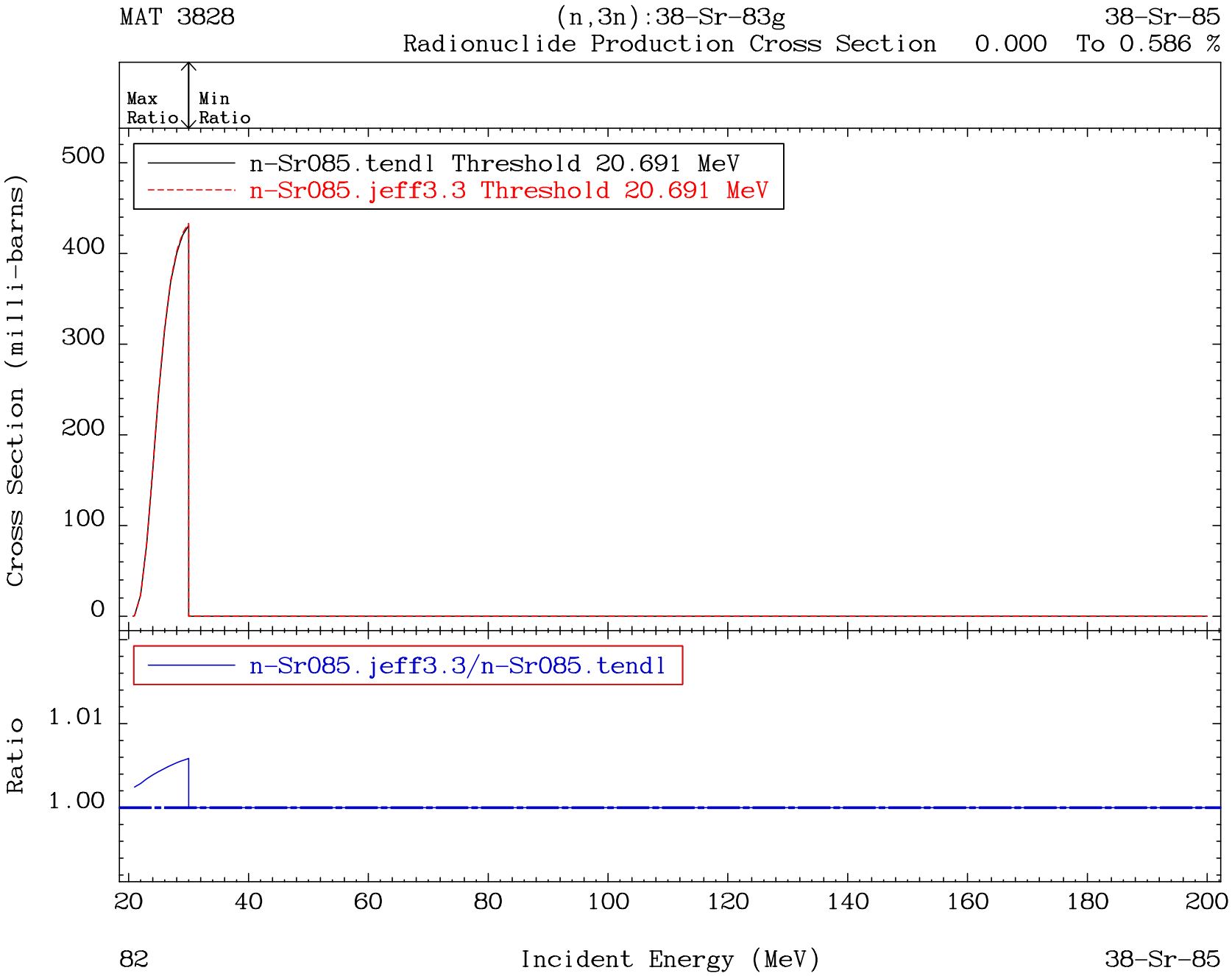

MAT 3828
Dpa disappearance (mt102 -120)
Cross Section
38-Sr-85
-94.43 To 9999. %
Max Ratio
Min Ratio
n-Sr085.tendl
n-Sr085.jeff3.3
Cross Section (barns)
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
Incident Energy (eV)
77
38-Sr-85

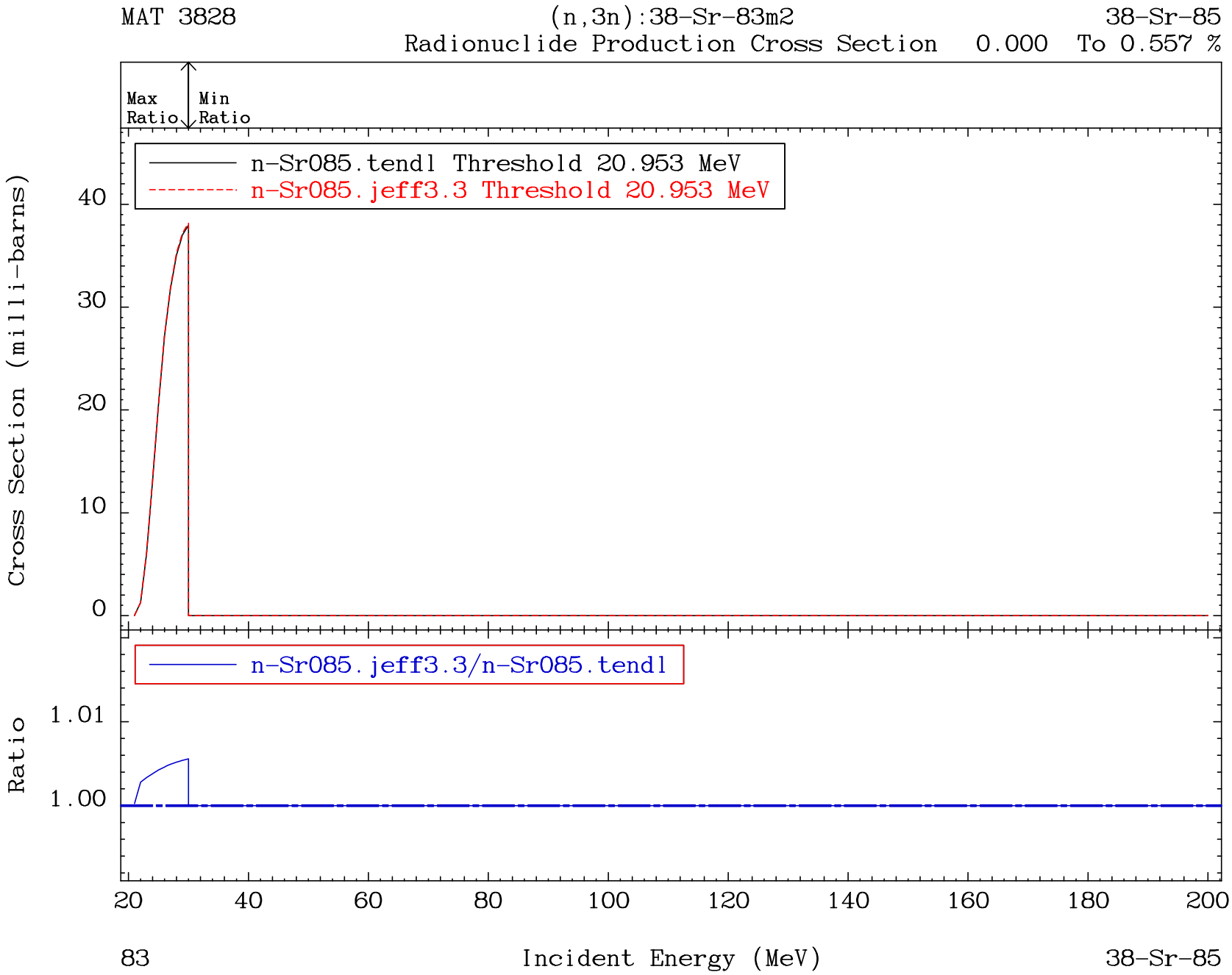

MAT 3828
Inelastic:38-Sr-85g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.130 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 234.43 keV
n-Sr085.jeff3.3 Threshold 234.43 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
78
Incident Energy (eV)
38-Sr-85

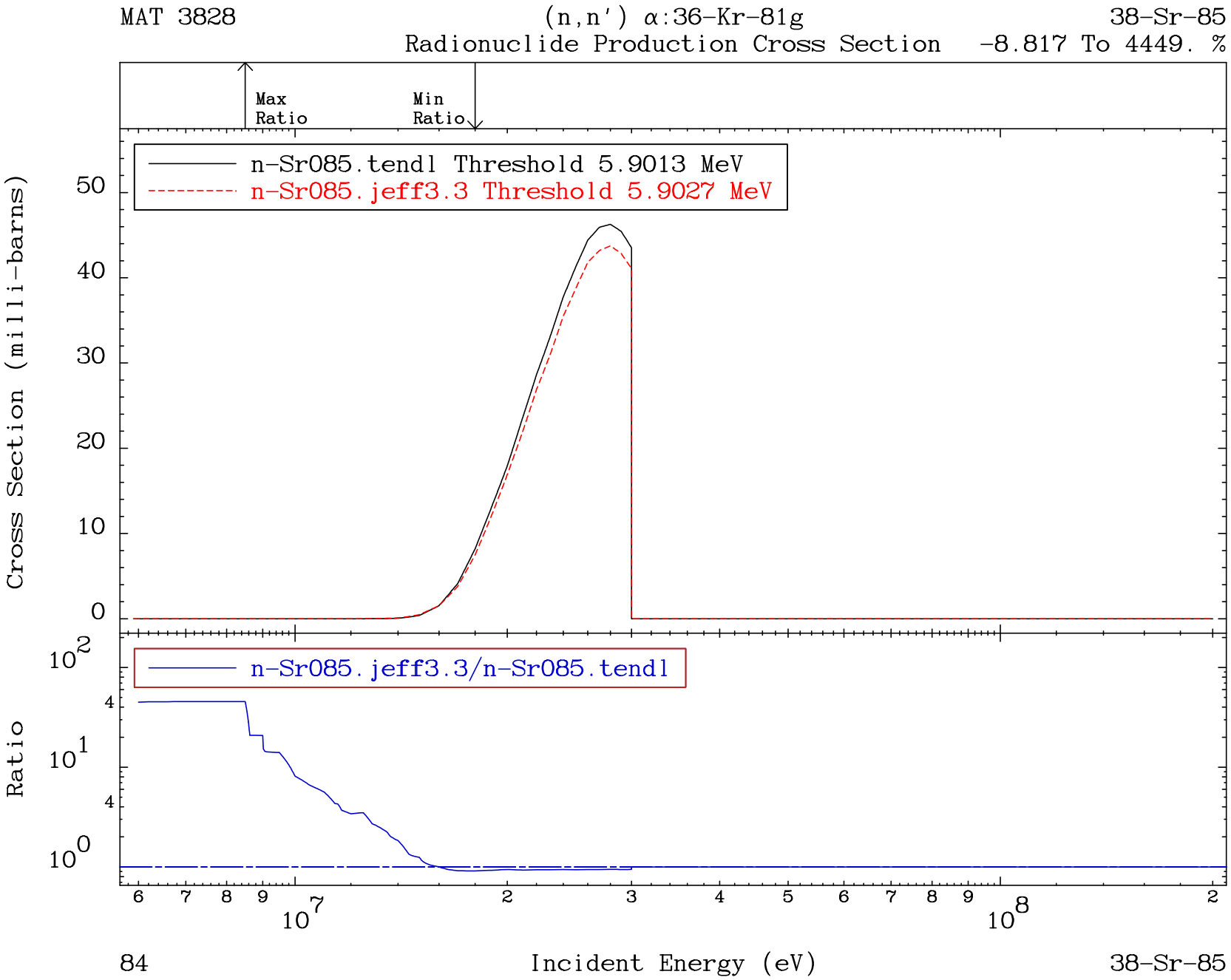

MAT 3828
Inelastic:38-Sr-85m2
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.265 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 241.50 keV
n-Sr085.jeff3.3 Threshold 241.50 keV
Cross Section (milli-barns)
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
79
Incident Energy (eV)
38-Sr-85

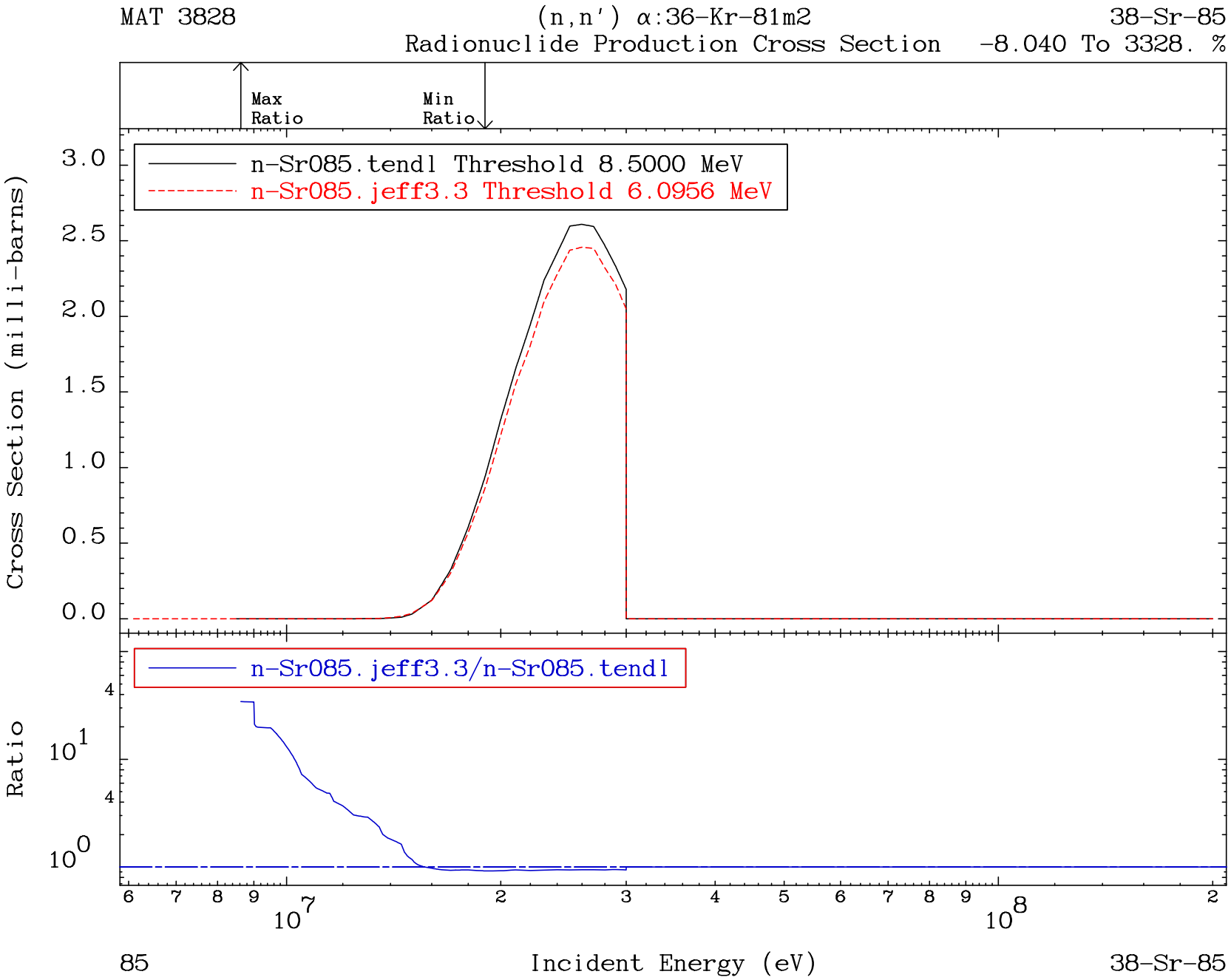

MAT 3828
(n,2n) d:37-Rb-82g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 6.108 %
Min Ratio
n-Sr085.tendl Threshold 26.433 MeV
n-Sr085.jeff3.3 Threshold 26.433 MeV
Cross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.08
1.06
1.04
1.02
1.00
40
60
80
100
120
140
160
180
200
80
Incident Energy (MeV)
38-Sr-85

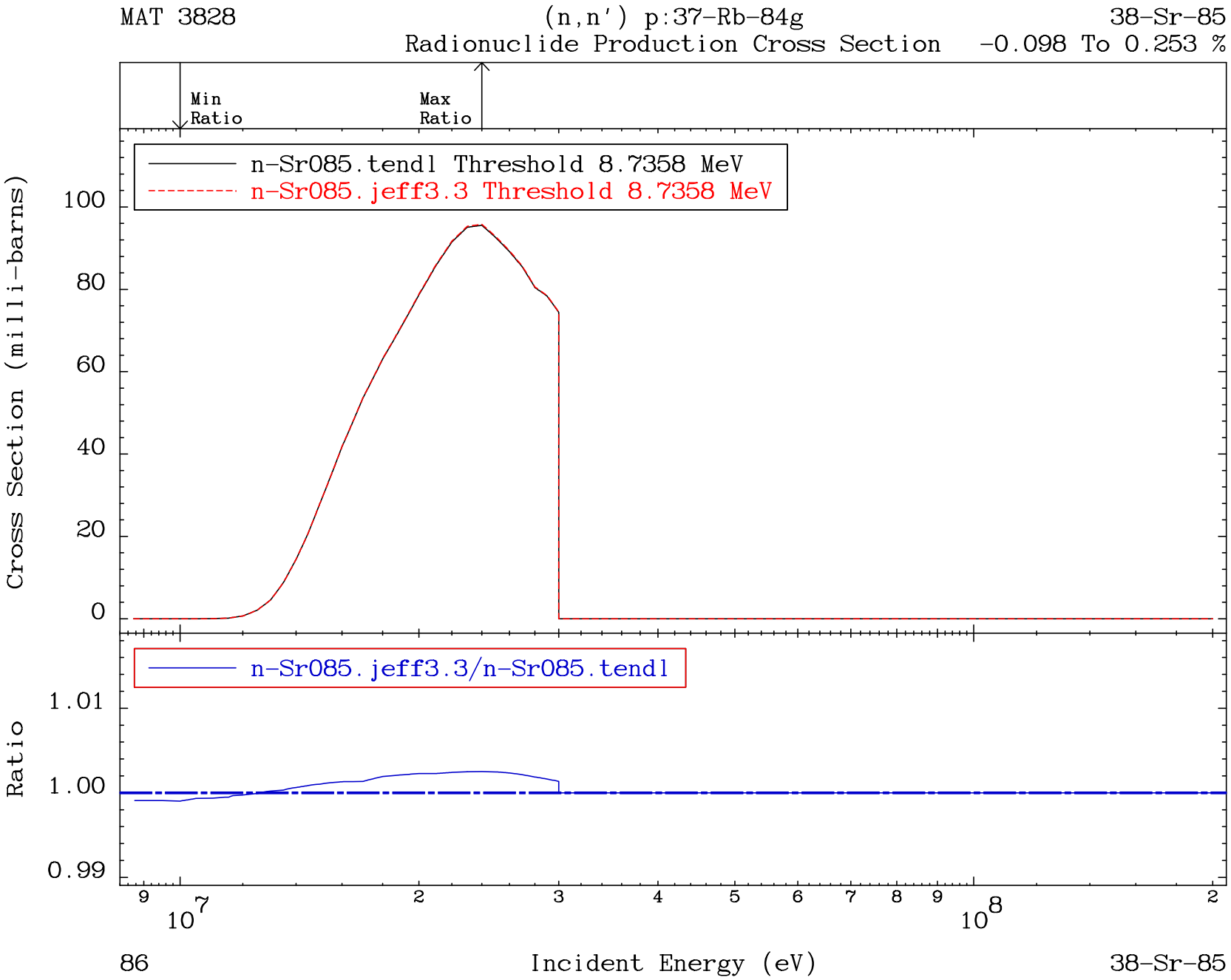

MAT 3828
(n,2n) d:37-Rb-82m1
38-Sr-85
Radionuclide Production Cross Section 0.000 To 1.782 %
Min Ratio
n-Sr085.tendl Threshold 26.503 MeV
n-Sr085.jeff3.3 Threshold 26.503 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.02
1.01
1.00
40
60
80
100
120
140
160
180
200
81
Incident Energy (MeV)
38-Sr-85

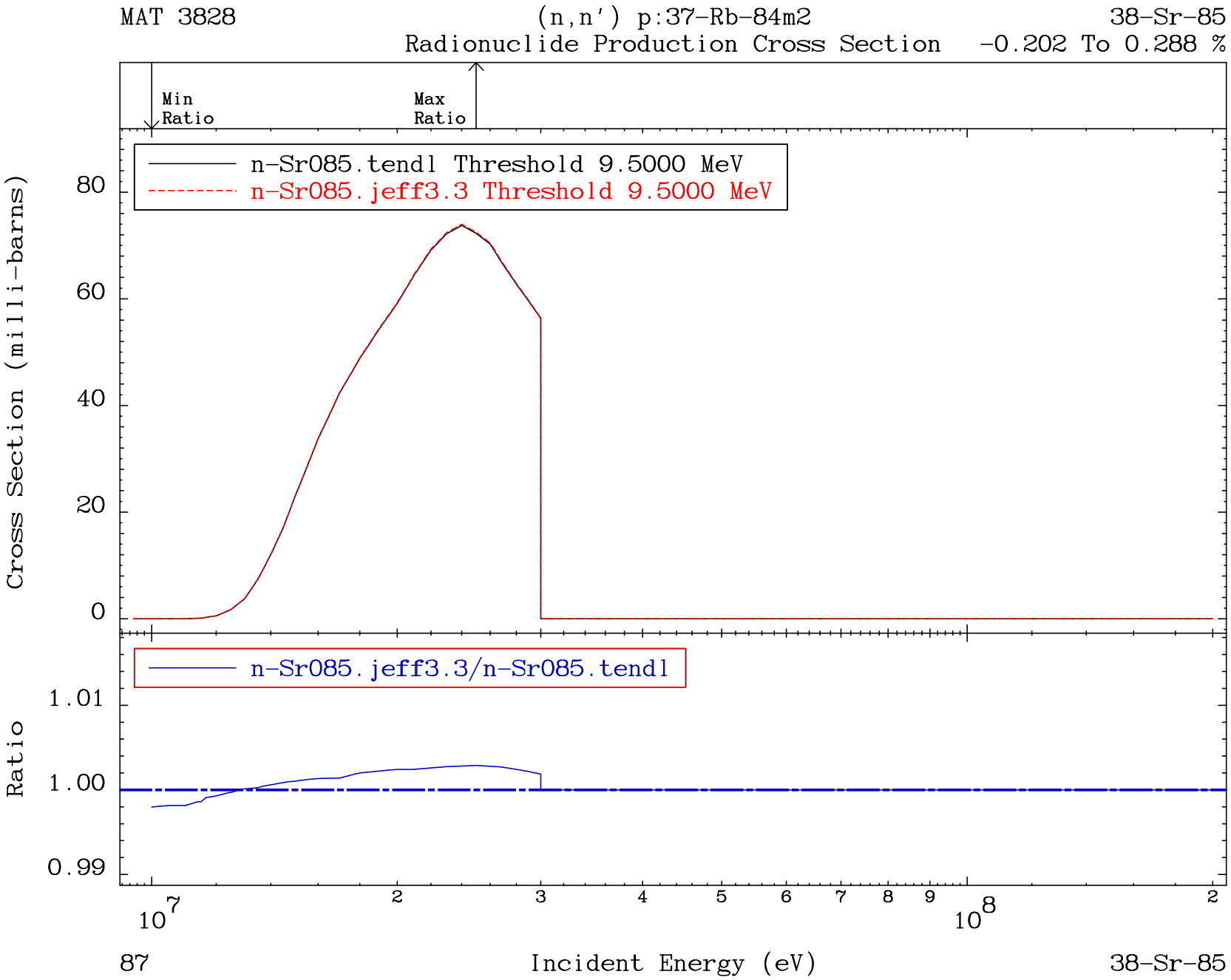

MAT 3828
(n,3n):38-Sr-83g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.586 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 20.691 MeV
n-Sr085.jeff3.3 Threshold 20.691 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
20
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
38-Sr-85

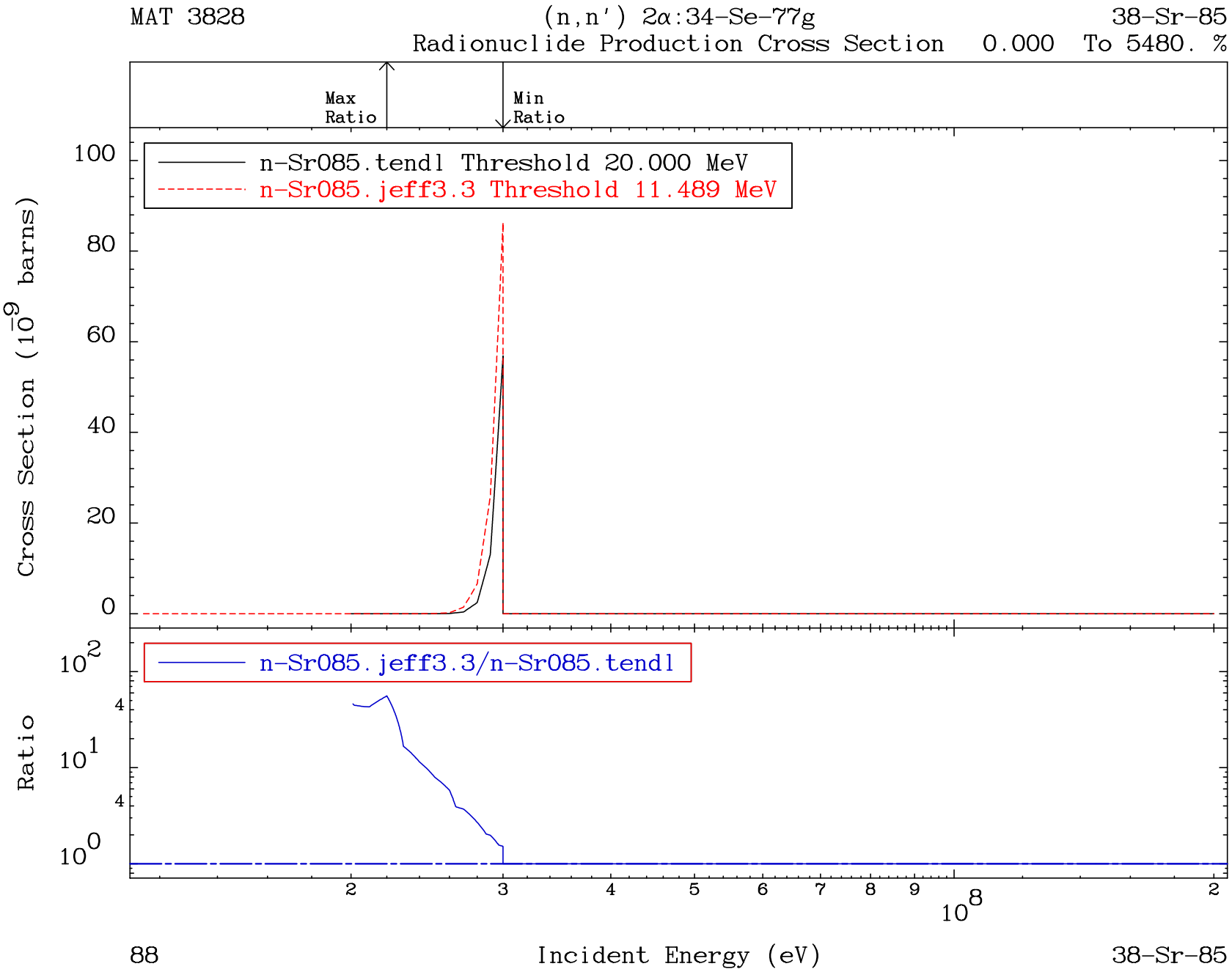

MAT 3828
(n,3n):38-Sr-83m2
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.557 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 20.953 MeV
n-Sr085.jeff3.3 Threshold 20.953 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
38-Sr-85

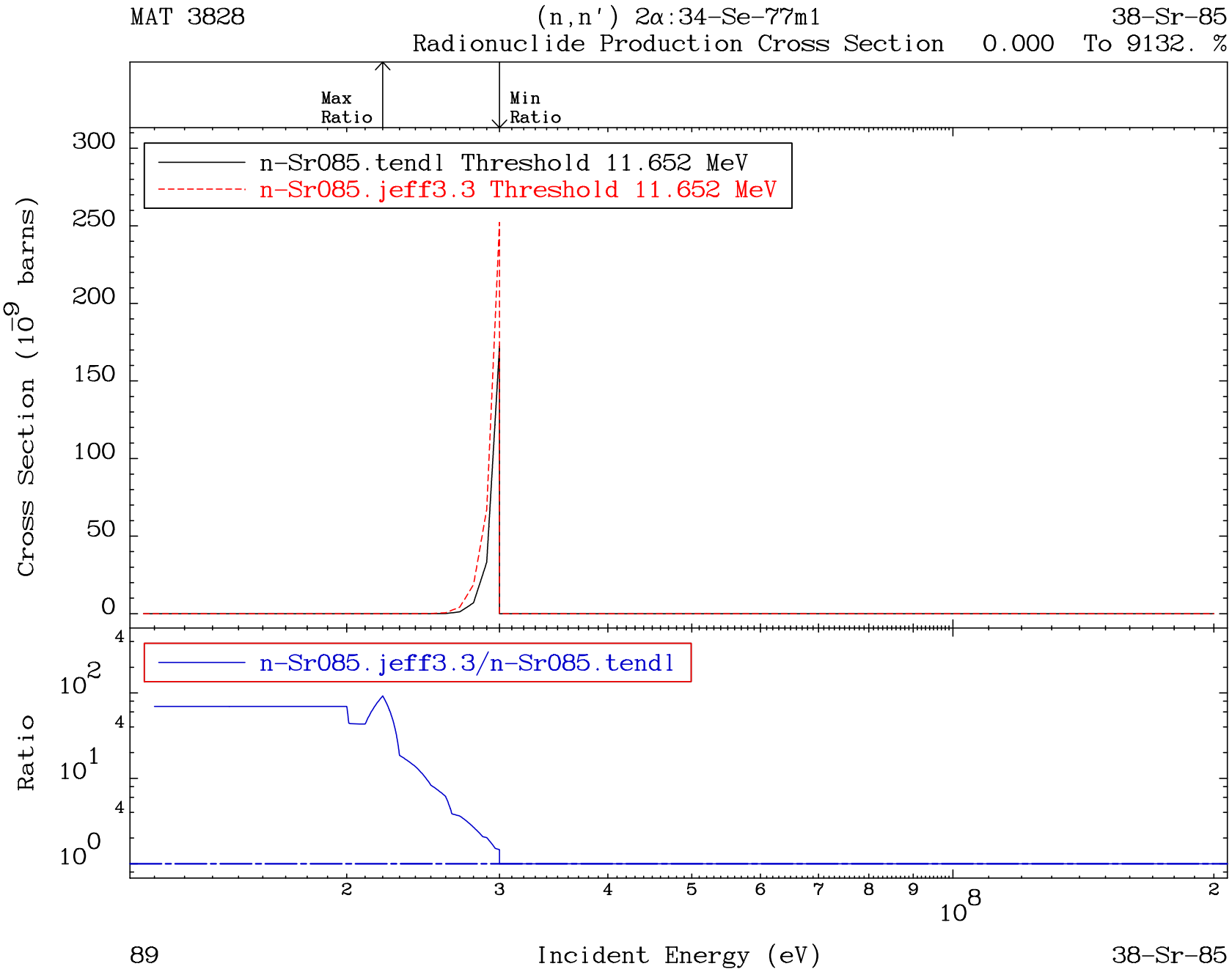

MAT 3828
(n,n') α:36-Kr-81g
38-Sr-85
Radionuclide Production Cross Section -8.817 To 4449. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 5.9013 MeV
n-Sr085.jeff3.3 Threshold 5.9027 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^2
4
10^1
4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
84
Incident Energy (eV)
38-Sr-85

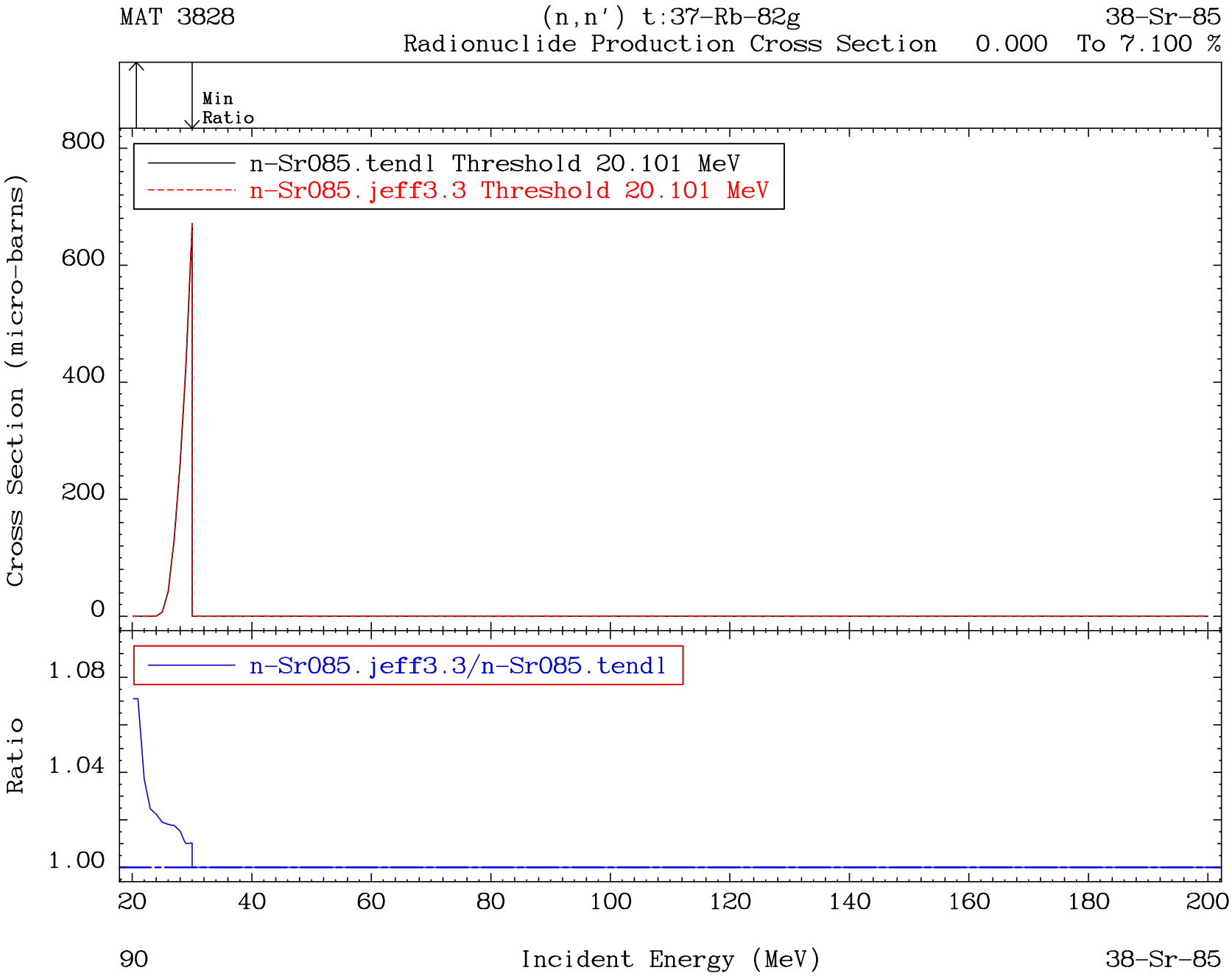

MAT 3828
(n,n') α:36-Kr-81m2
38-Sr-85
Radionuclide Production Cross Section -8.040 To 3328. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 8.5000 MeV
n-Sr085.jeff3.3 Threshold 6.0956 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
85
Incident Energy (eV)
38-Sr-85

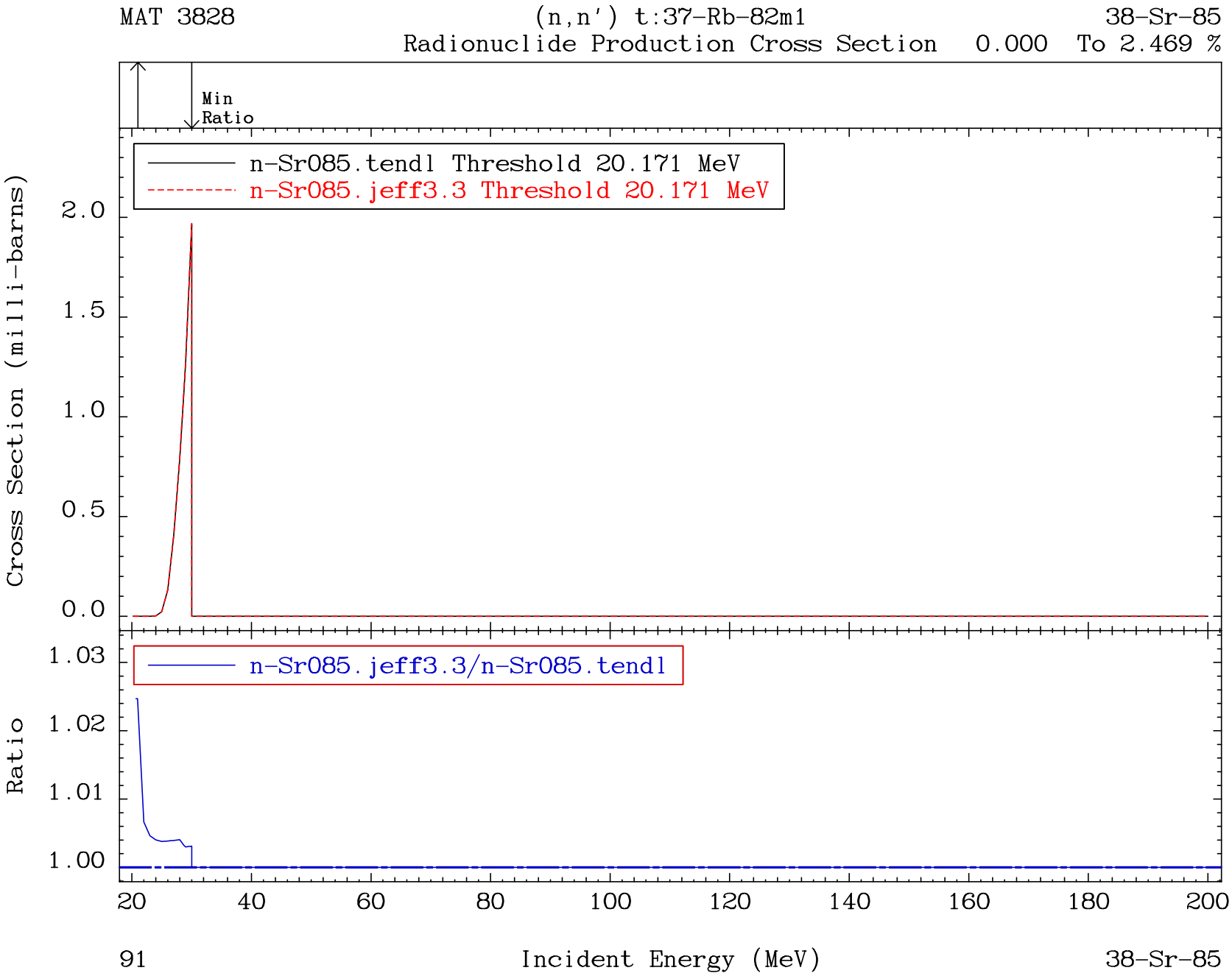

MAT 3828
(n,n') p:37-Rb-84g
38-Sr-85
Radionuclide Production Cross Section -0.098 To 0.253 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.7358 MeV
n-Sr085.jeff3.3 Threshold 8.7358 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
38-Sr-85

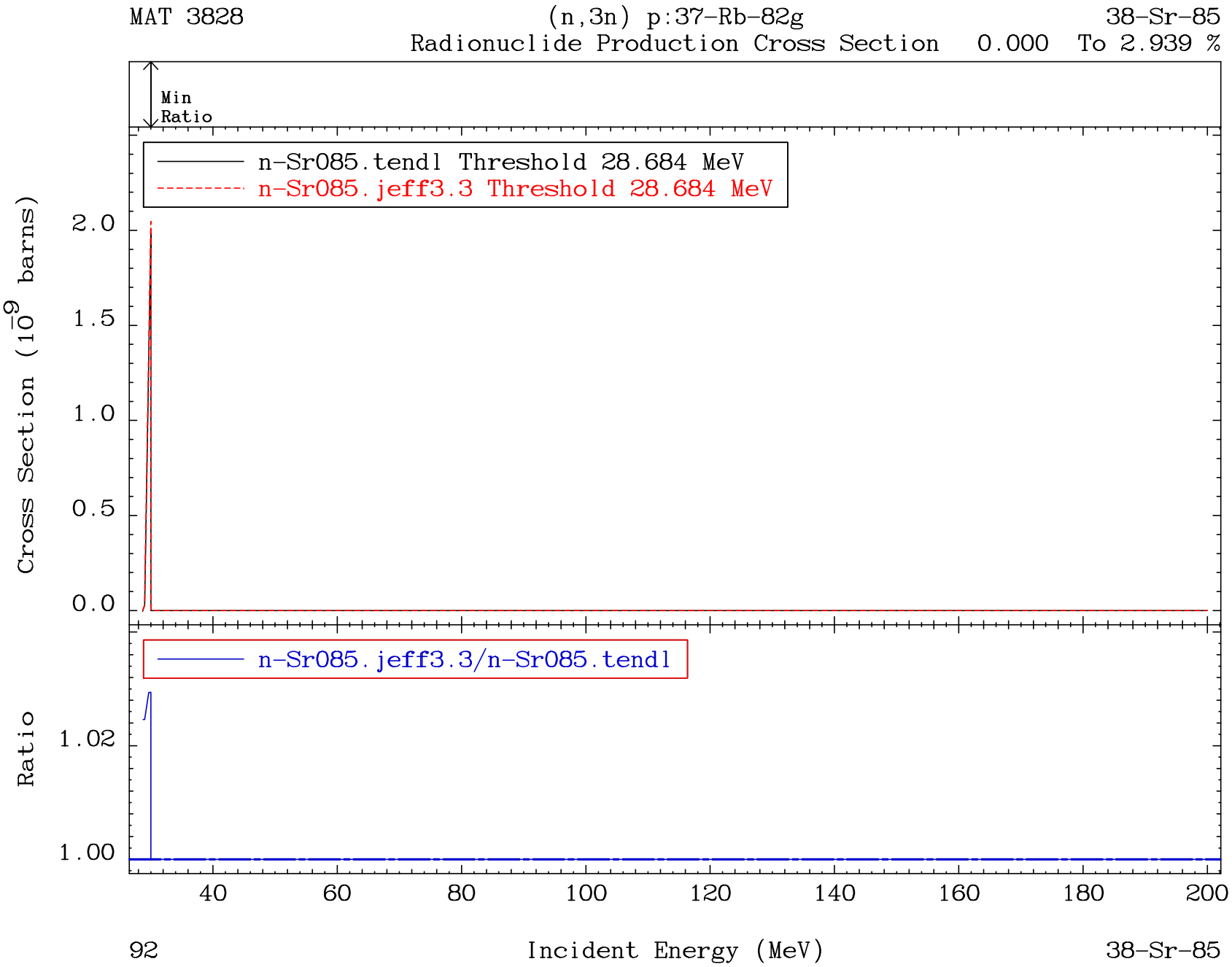

MAT 3828
(n,n') p:37-Rb-84m2
38-Sr-85
Radionuclide Production Cross Section -0.202 To 0.288 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 9.5000 MeV
n-Sr085.jeff3.3 Threshold 9.5000 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
38-Sr-85

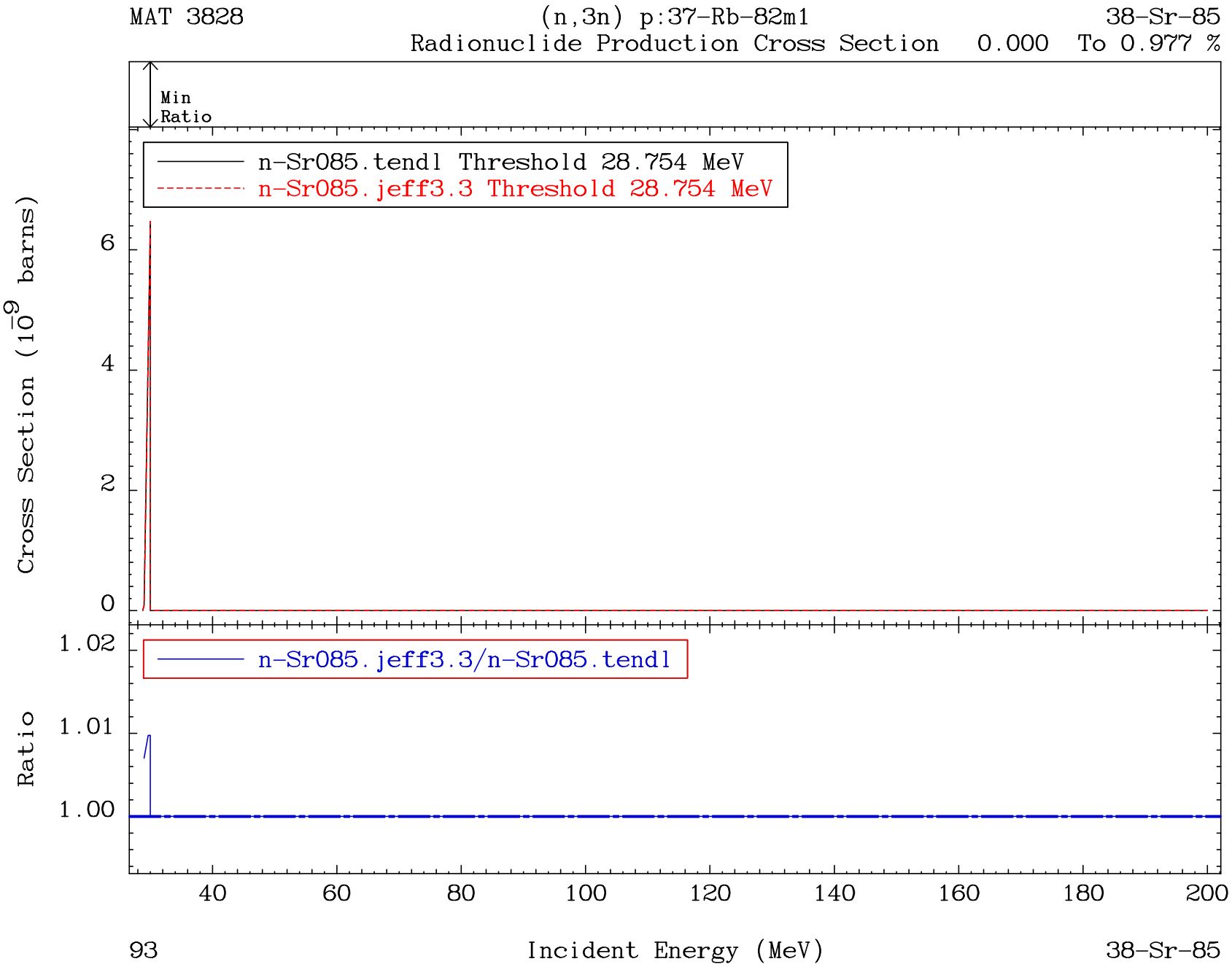

MAT 3828
(n,n') 2α:34-Se-77g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 5480. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 20.000 MeV
n-Sr085.jeff3.3 Threshold 11.489 MeV
Cross Section (10^{-9} barns)
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^{2}
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
88
Incident Energy (eV)
38-Sr-85

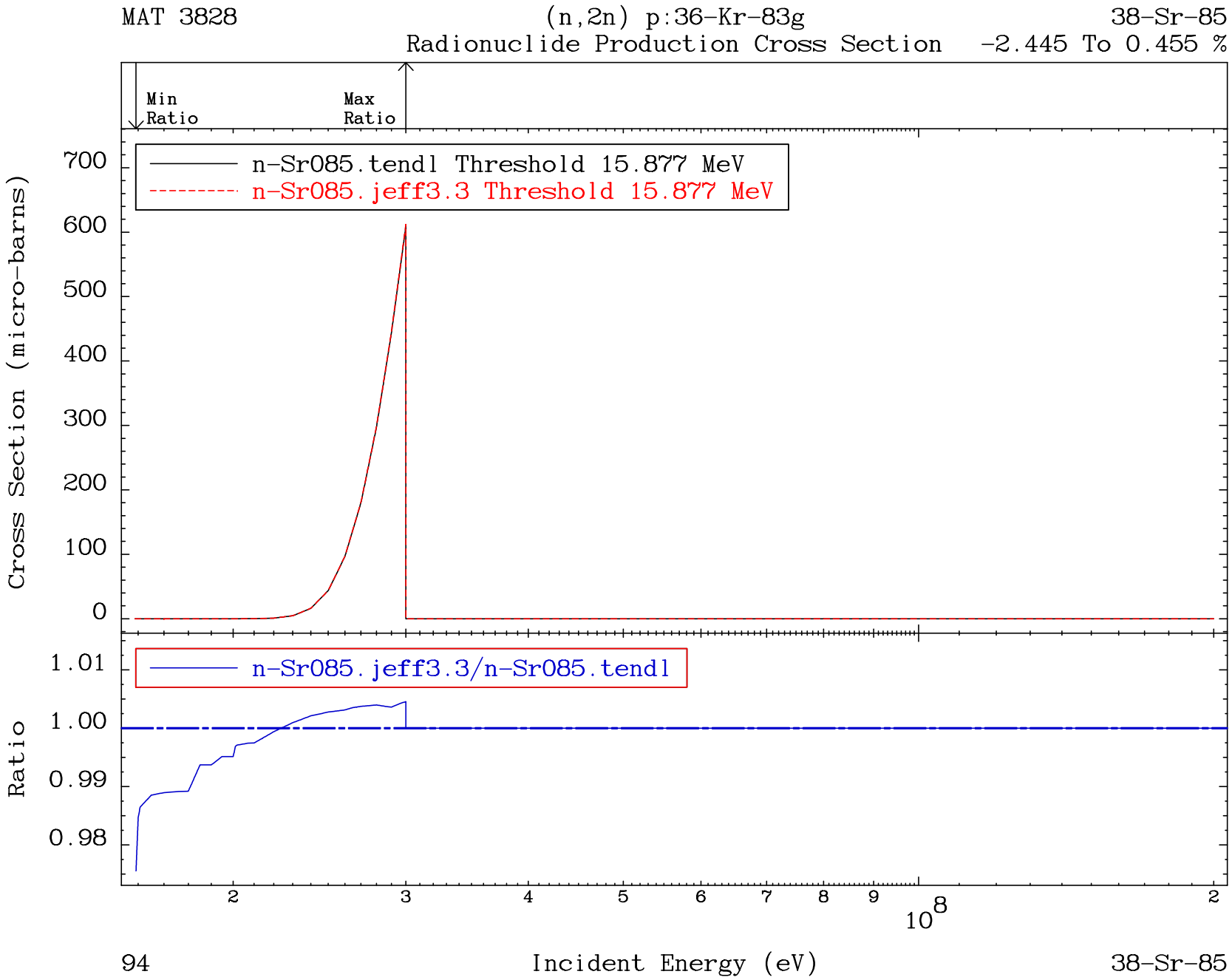

MAT 3828
(n,n') 2α:34-Se-77m1
38-Sr-85
Radionuclide Production Cross Section 0.000 To 9132. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 11.652 MeV
n-Sr085.jeff3.3 Threshold 11.652 MeV
Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^{2}
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
89
Incident Energy (eV)
38-Sr-85

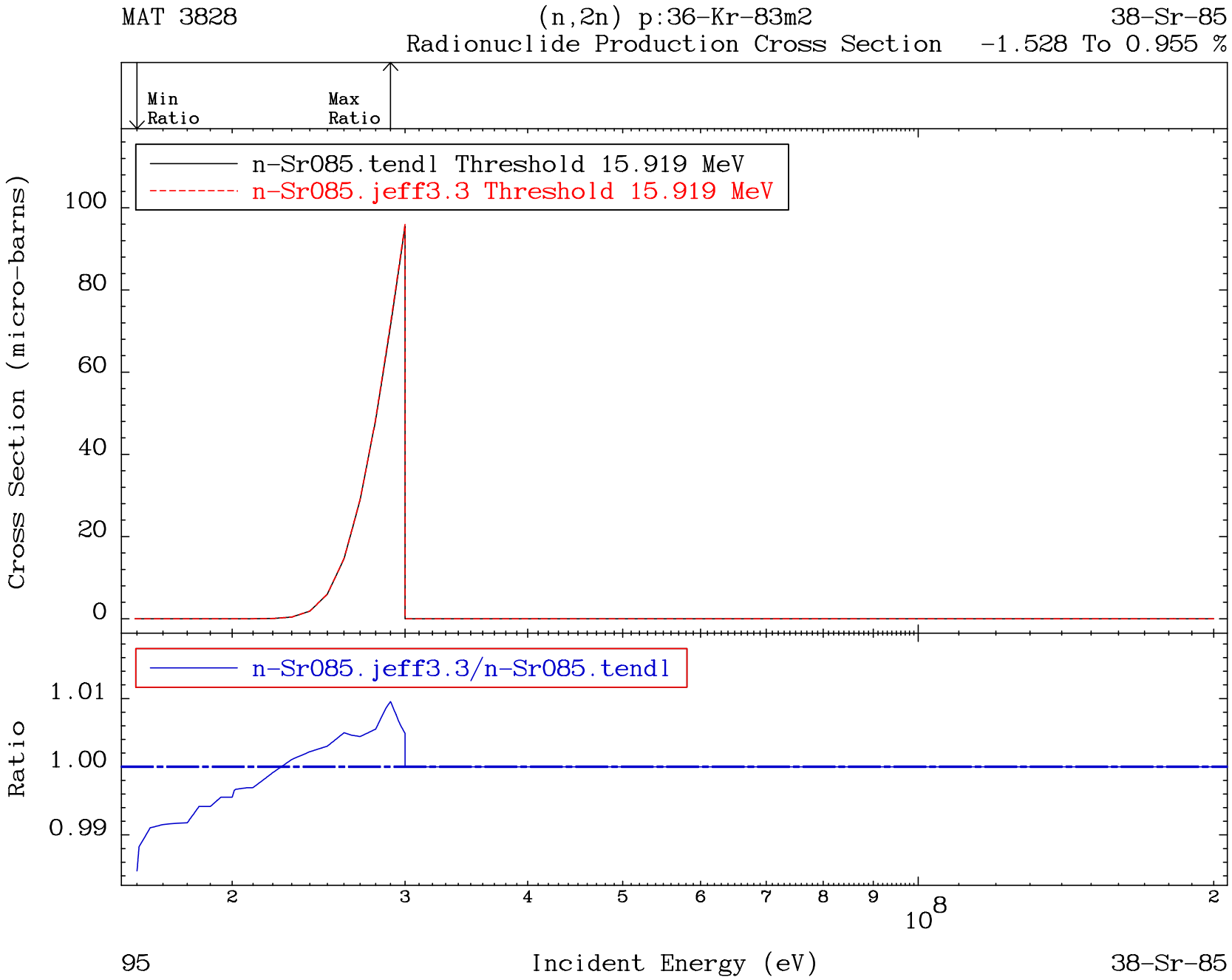

MAT 3828
(n,n') t:37-Rb-82g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 7.100 %
Min
Ratio
n-Sr085.tendl Threshold 20.101 MeV
n-Sr085.jeff3.3 Threshold 20.101 MeV
Cross Section (micro-barns)
800
600
400
200
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.08
1.04
1.00
20
40
60
80
100
120
140
160
180
200
90
Incident Energy (MeV)
38-Sr-85

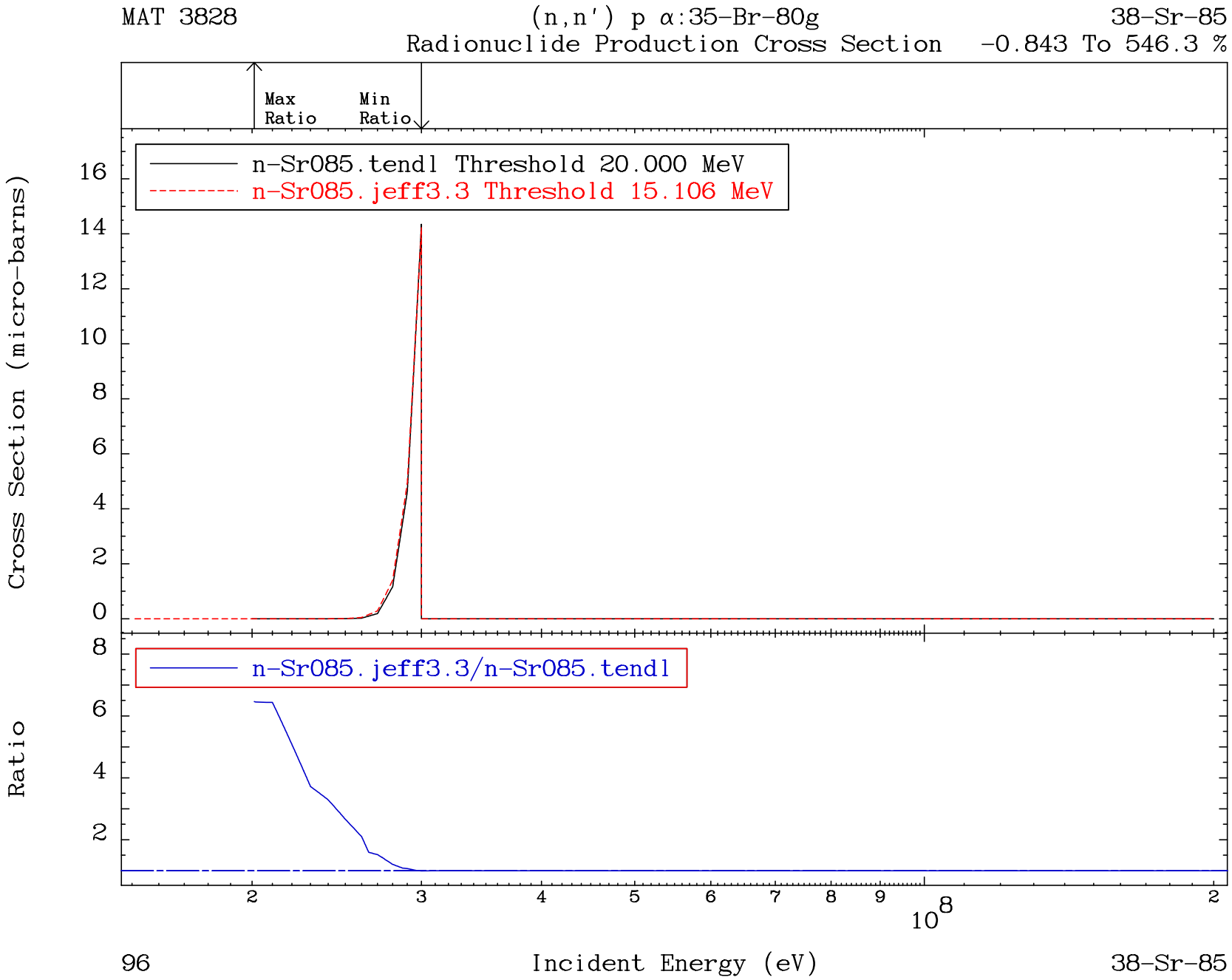

MAT 3828
(n,n') t:37-Rb-82m1
38-Sr-85
Radionuclide Production Cross Section 0.000 To 2.469 %
Min Ratio
n-Sr085.tendl Threshold 20.171 MeV
n-Sr085.jeff3.3 Threshold 20.171 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.03
1.02
1.01
1.00
20
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
38-Sr-85

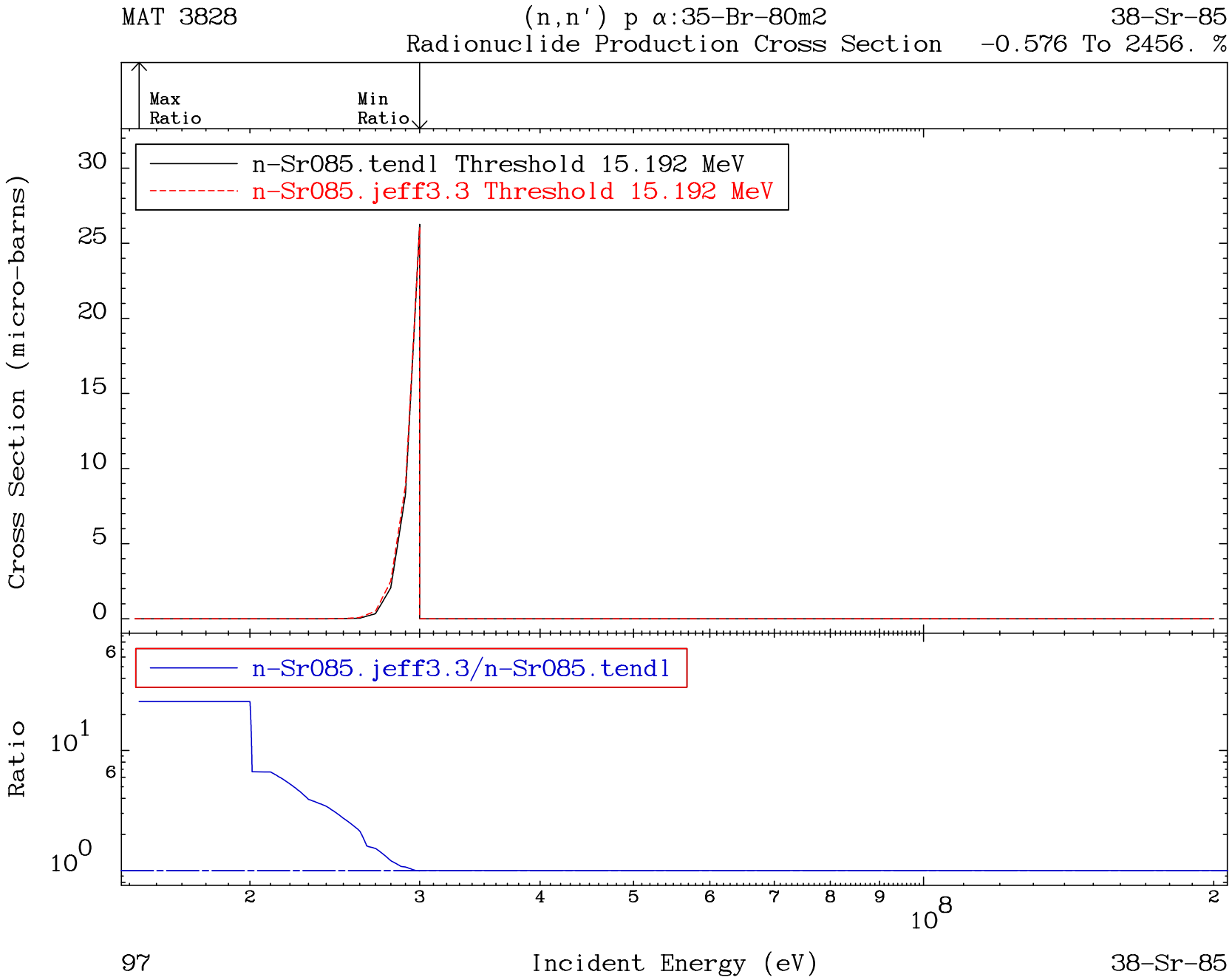

MAT 3828
(n,3n) p:37-Rb-82g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 2.939 %
Min Ratio
n-Sr085.tendl Threshold 28.684 MeV
n-Sr085.jeff3.3 Threshold 28.684 MeV
Cross Section (10^{-9} barns)
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.02
1.00
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
38-Sr-85

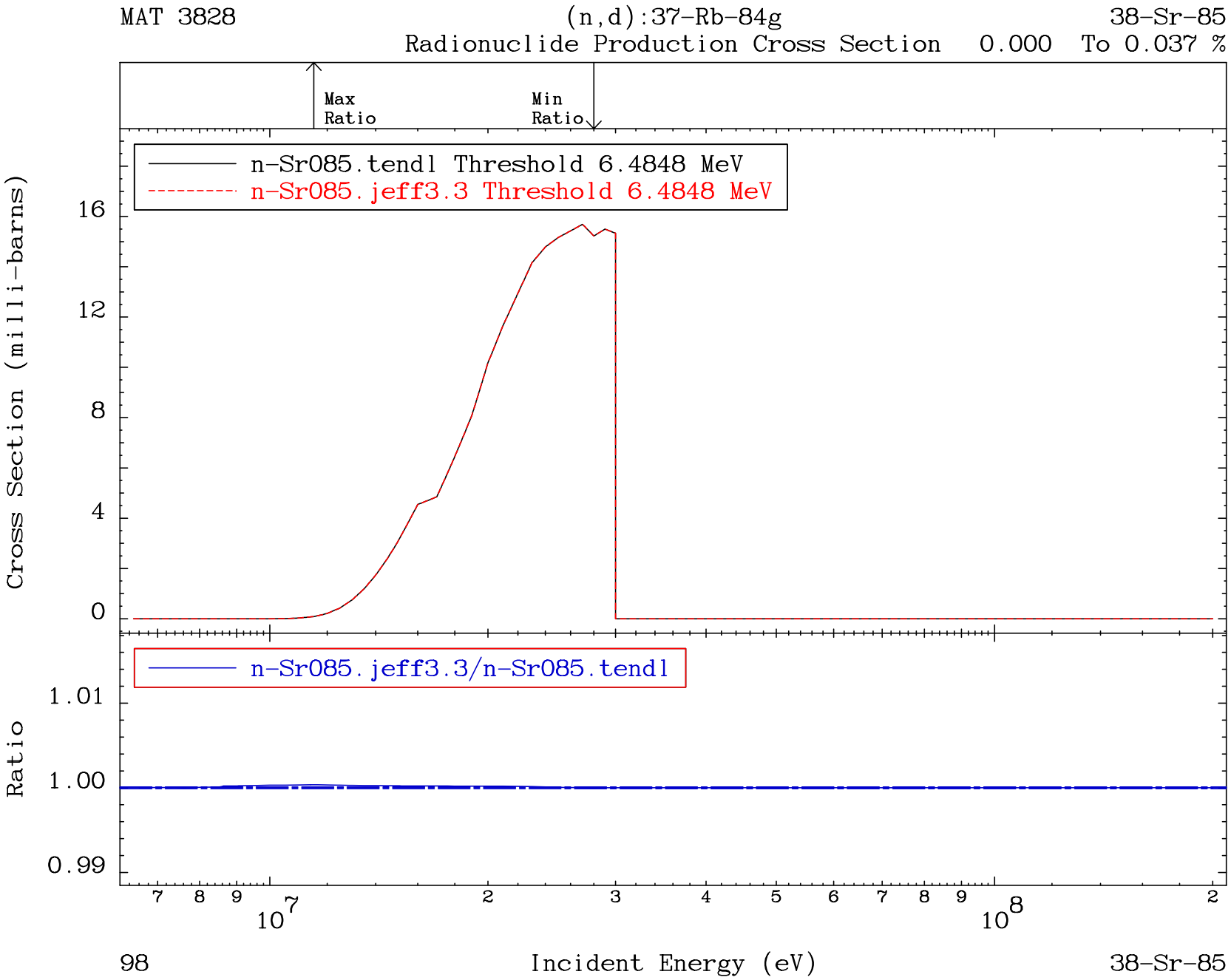

MAT 3828
(n,3n) p:37-Rb-82m1
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.977 %
Min Ratio
n-Sr085.tendl Threshold 28.754 MeV
n-Sr085.jeff3.3 Threshold 28.754 MeV
Cross Section (10^{-9} barns)
0
2
4
6
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
1.01
1.02
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
38-Sr-85

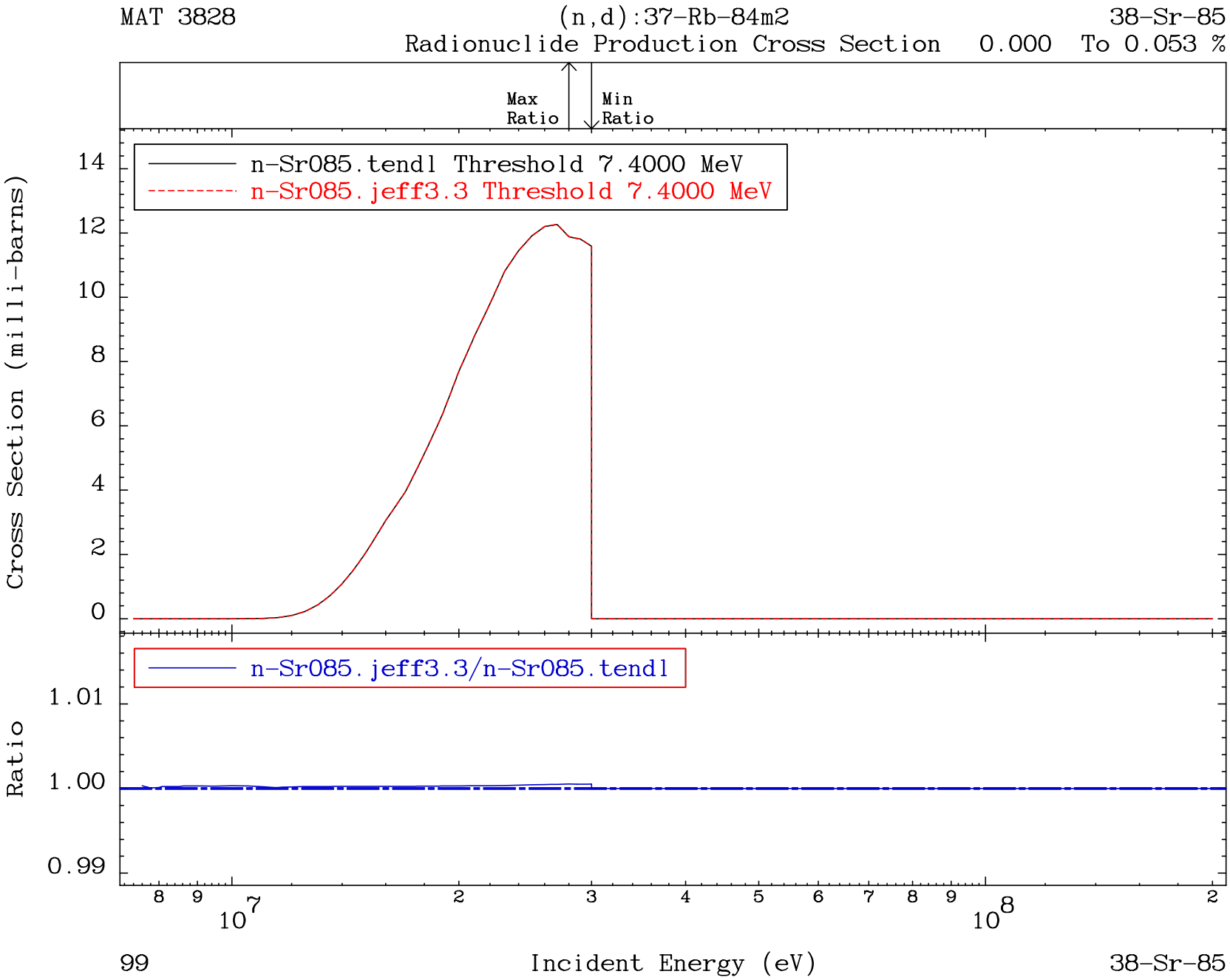

MAT 3828
(n,2n) p:36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section
-2.445 To 0.455 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 15.877 MeV
n-Sr085.jeff3.3 Threshold 15.877 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
38-Sr-85

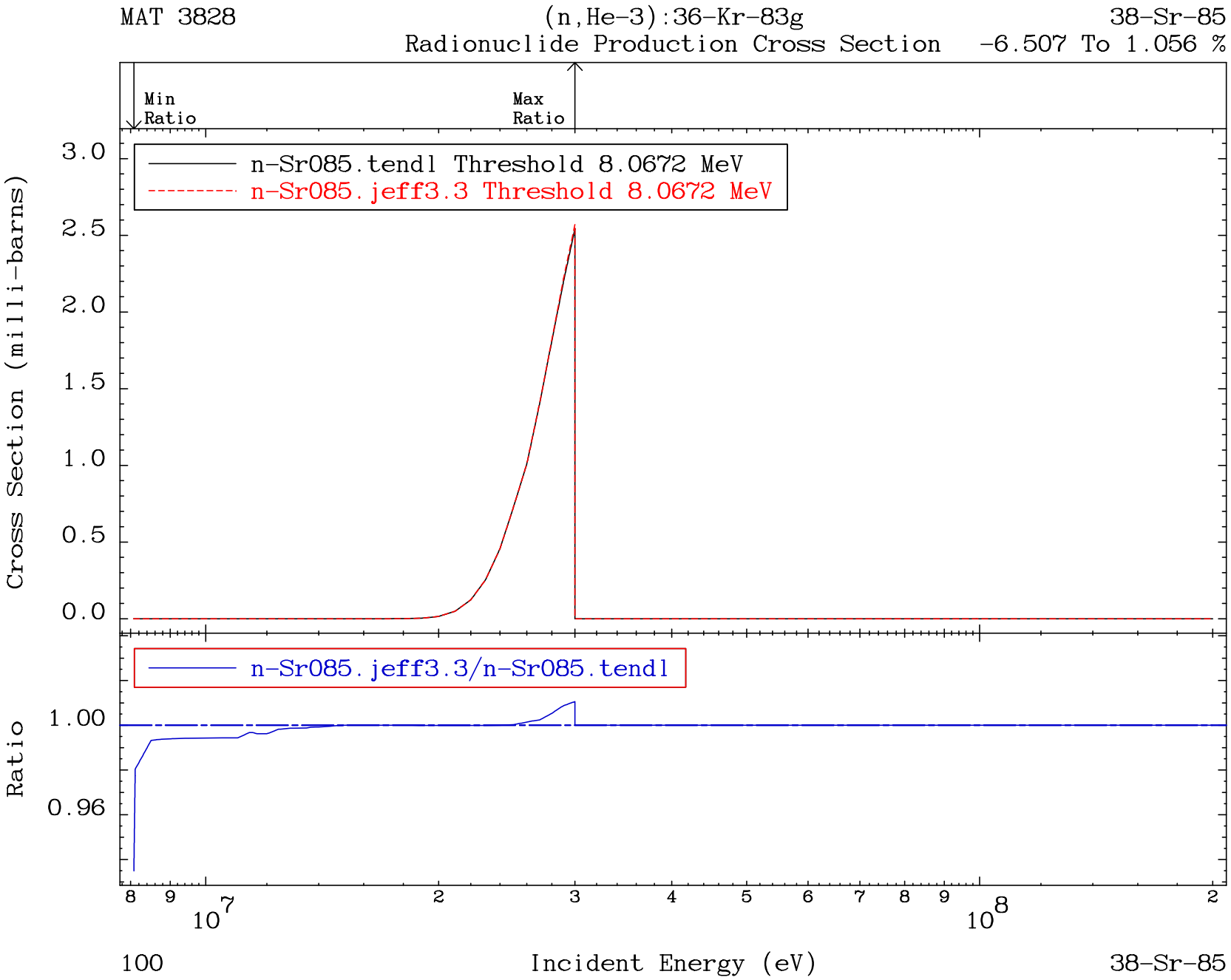

MAT 3828
(n,2n) p:36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section -1.528 To 0.955 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 15.919 MeV
n-Sr085.jeff3.3 Threshold 15.919 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
38-Sr-85

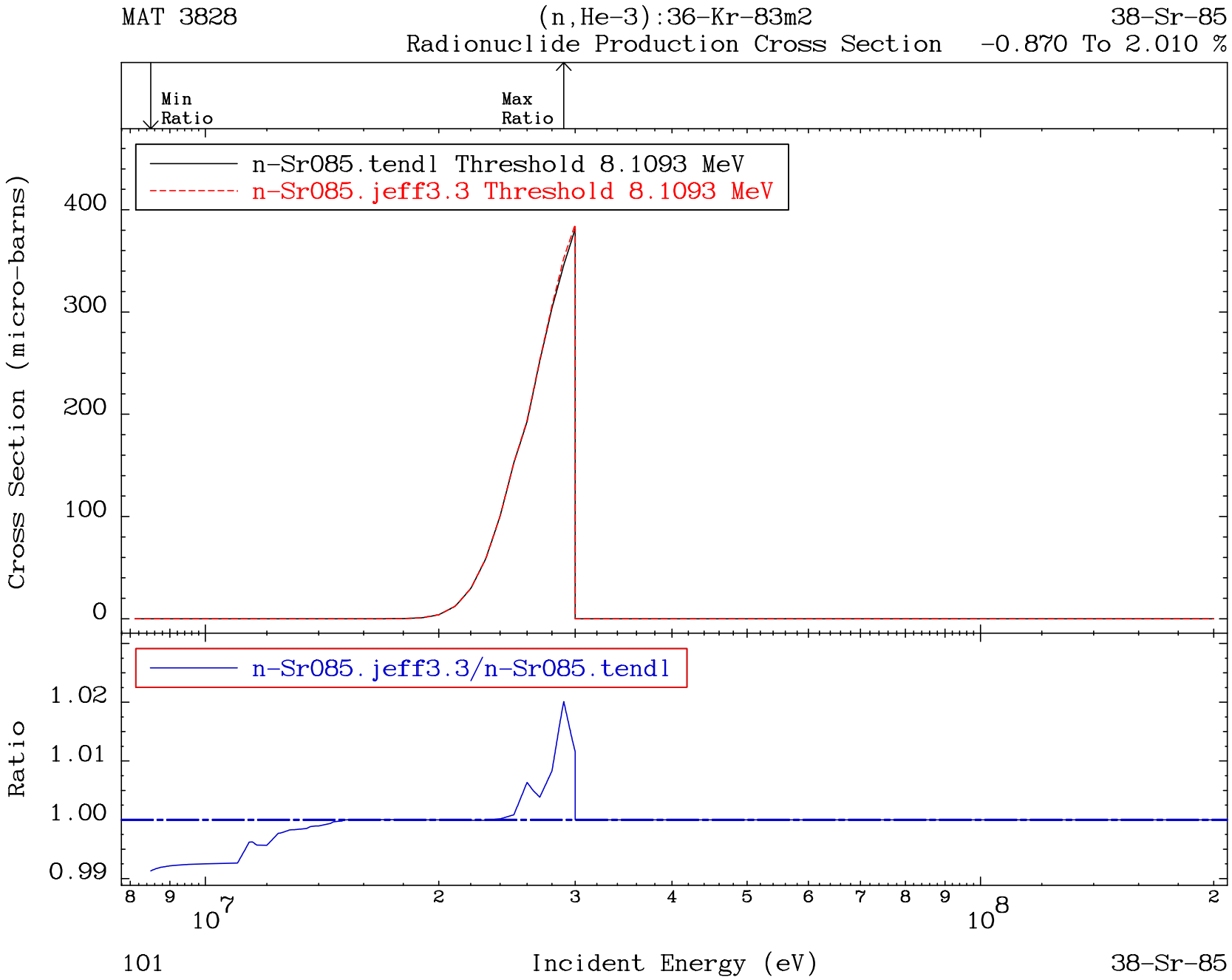

MAT 3828
(n,n') p α:35-Br-80g
38-Sr-85
Radionuclide Production Cross Section
-0.843 To 546.3 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 20.000 MeV
n-Sr085.jeff3.3 Threshold 15.106 MeV
Cross Section (micro-barns)
16
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
8
6
4
2
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
38-Sr-85

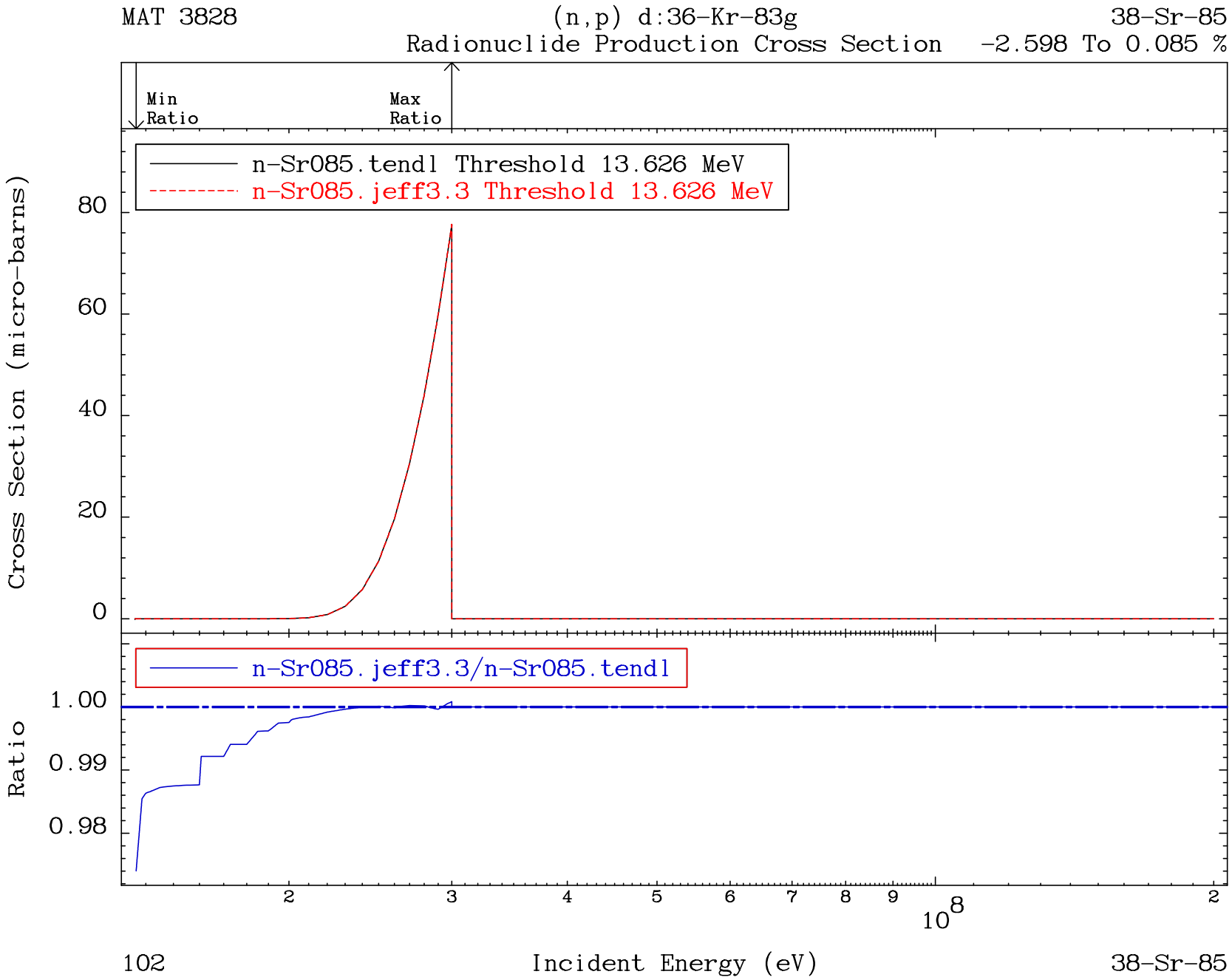

MAT 3828
(n,n') p α:35-Br-80m2
38-Sr-85
Radionuclide Production Cross Section -0.576 To 2456. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 15.192 MeV
n-Sr085.jeff3.3 Threshold 15.192 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^1
6
10^0
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
38-Sr-85

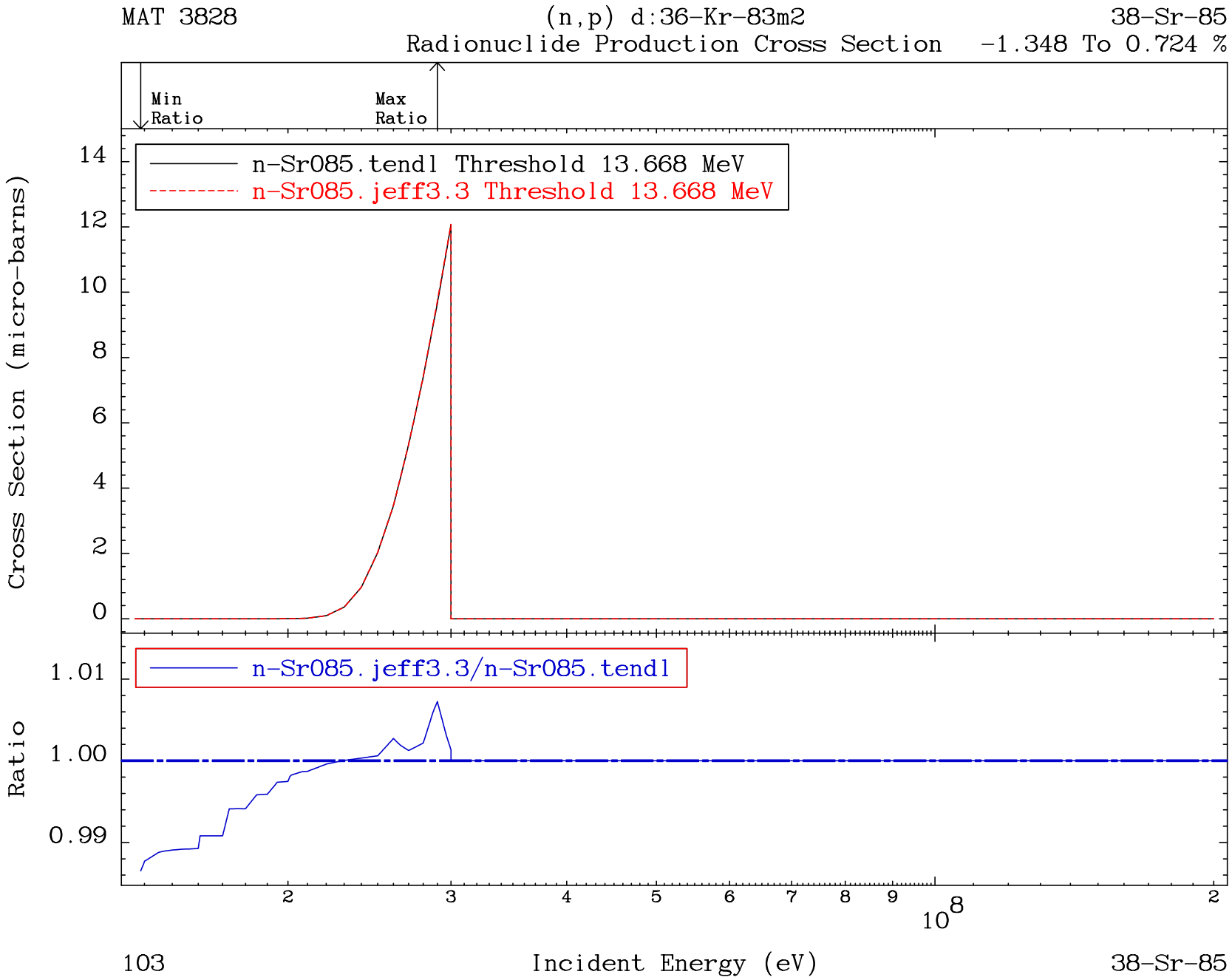

MAT 3828
(n,d):37-Rb-84g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.037 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 6.4848 MeV
n-Sr085.jeff3.3 Threshold 6.4848 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
98
Incident Energy (eV)
38-Sr-85

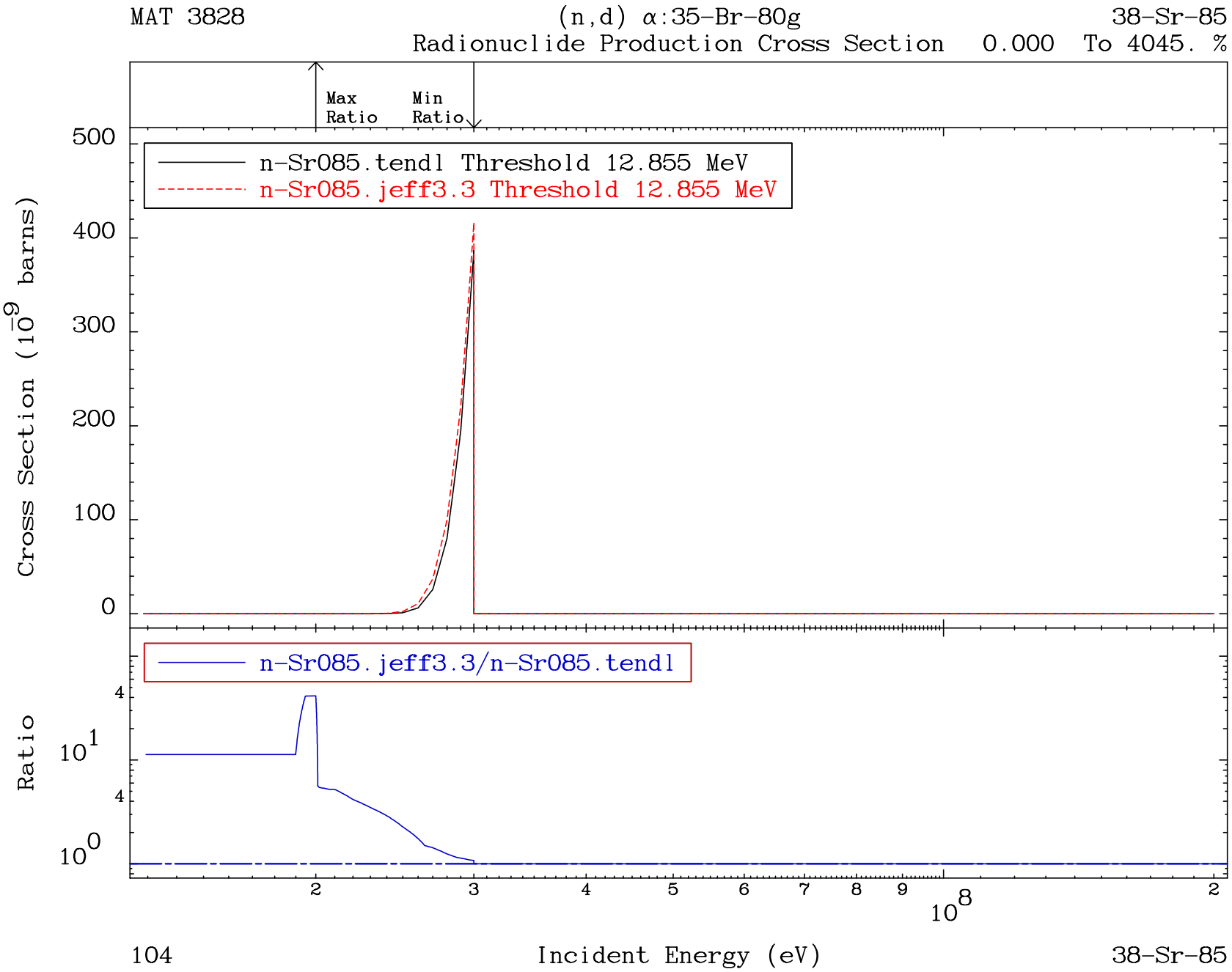

MAT 3828
(n,d):37-Rb-84m2
38-Sr-85
Radionuclide Production Cross Section 0.000 To 0.053 %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 7.4000 MeV
n-Sr085.jeff3.3 Threshold 7.4000 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
99
Incident Energy (eV)
38-Sr-85

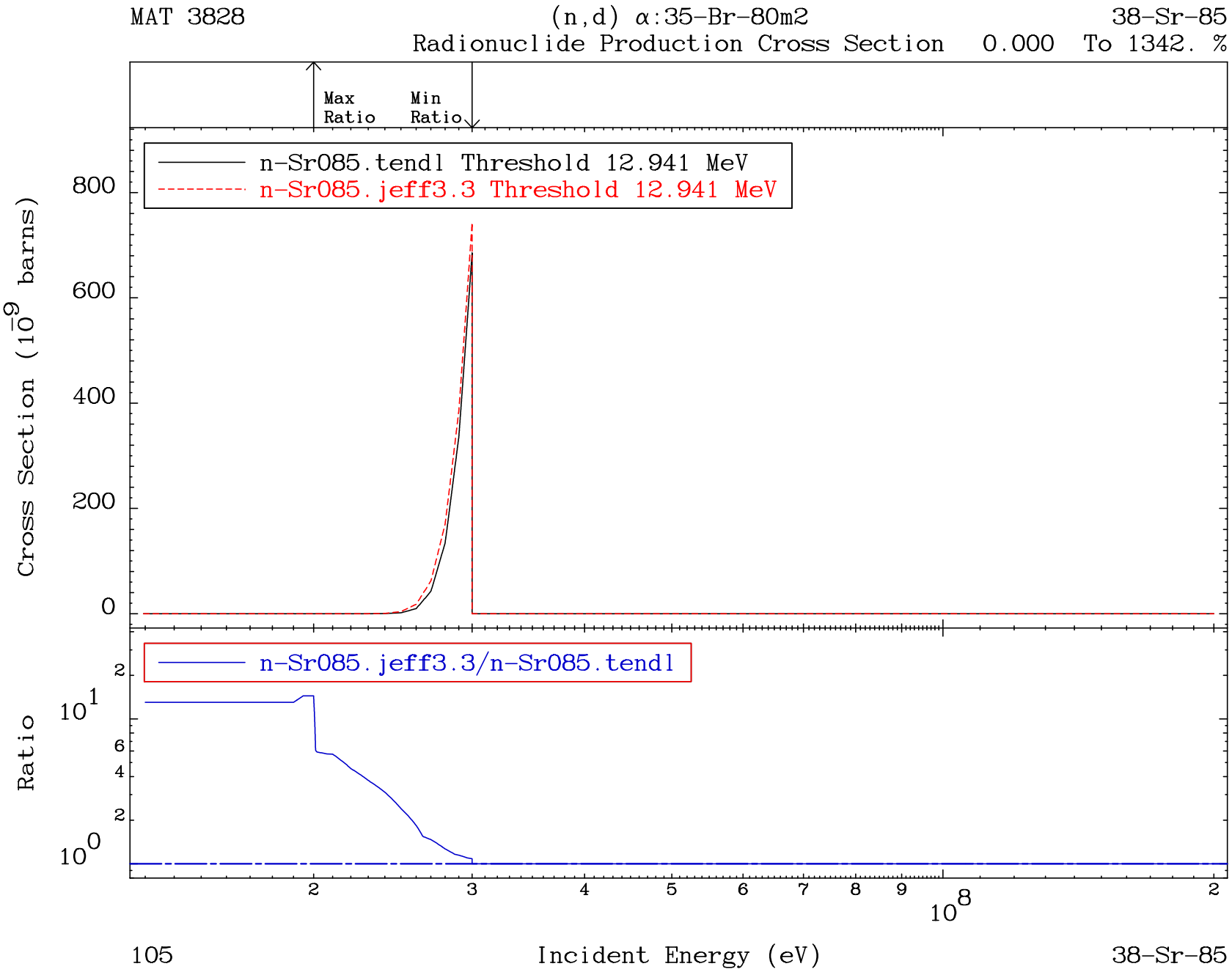

MAT 3828
(n,He-3):36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section -6.507 To 1.056 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.0672 MeV
n-Sr085.jeff3.3 Threshold 8.0672 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
0.96
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
100
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,He-3):36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section -0.870 To 2.010 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 8.1093 MeV
n-Sr085.jeff3.3 Threshold 8.1093 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.02
1.01
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
101
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,p) d:36-Kr-83g
38-Sr-85
Radionuclide Production Cross Section -2.598 To 0.085 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 13.626 MeV
n-Sr085.jeff3.3 Threshold 13.626 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,p) d:36-Kr-83m2
38-Sr-85
Radionuclide Production Cross Section -1.348 To 0.724 %
Min Ratio
Max Ratio
n-Sr085.tendl Threshold 13.668 MeV
n-Sr085.jeff3.3 Threshold 13.668 MeV
Cross Section (micro-barns)
14
12
10
8
6
4
2
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,d) α:35-Br-80g
38-Sr-85
Radionuclide Production Cross Section 0.000 To 4045. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 12.855 MeV
n-Sr085.jeff3.3 Threshold 12.855 MeV
Cross Section (10^{-9} barns)
500
400
300
200
100
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^{1}
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
104
Incident Energy (eV)
38-Sr-85


MAT 3828
(n,d) α:35-Br-80m2
38-Sr-85
Radionuclide Production Cross Section 0.000 To 1342. %
Max Ratio
Min Ratio
n-Sr085.tendl Threshold 12.941 MeV
n-Sr085.jeff3.3 Threshold 12.941 MeV
Cross Section (10^{-9} barns)
800
600
400
200
0
n-Sr085.jeff3.3/n-Sr085.tendl
Ratio
10^{1}
10^{0}
2
6
4
2
2
3
4
5
6
7
8
9
10^{8}
2
105
Incident Energy (eV)
38-Sr-85