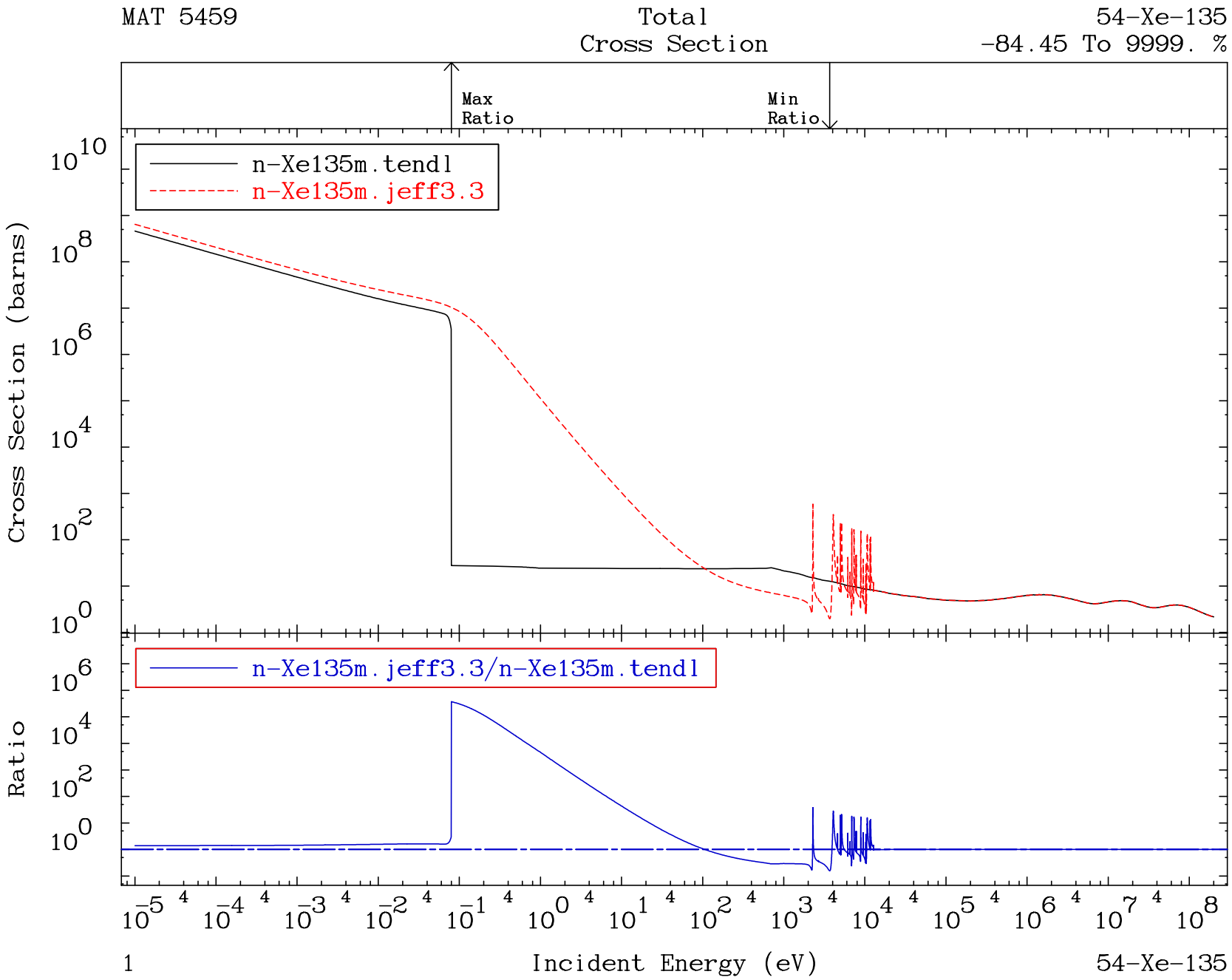
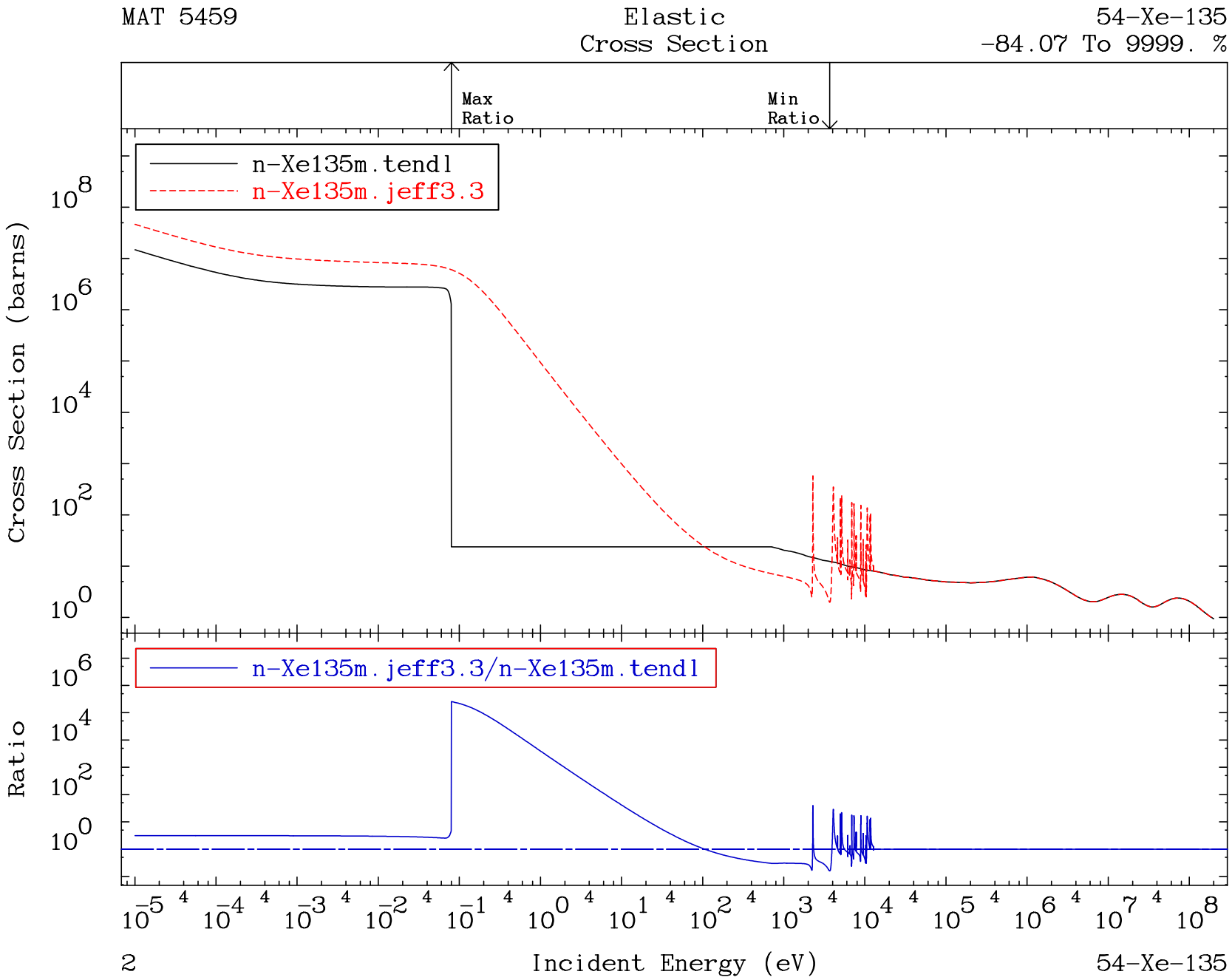
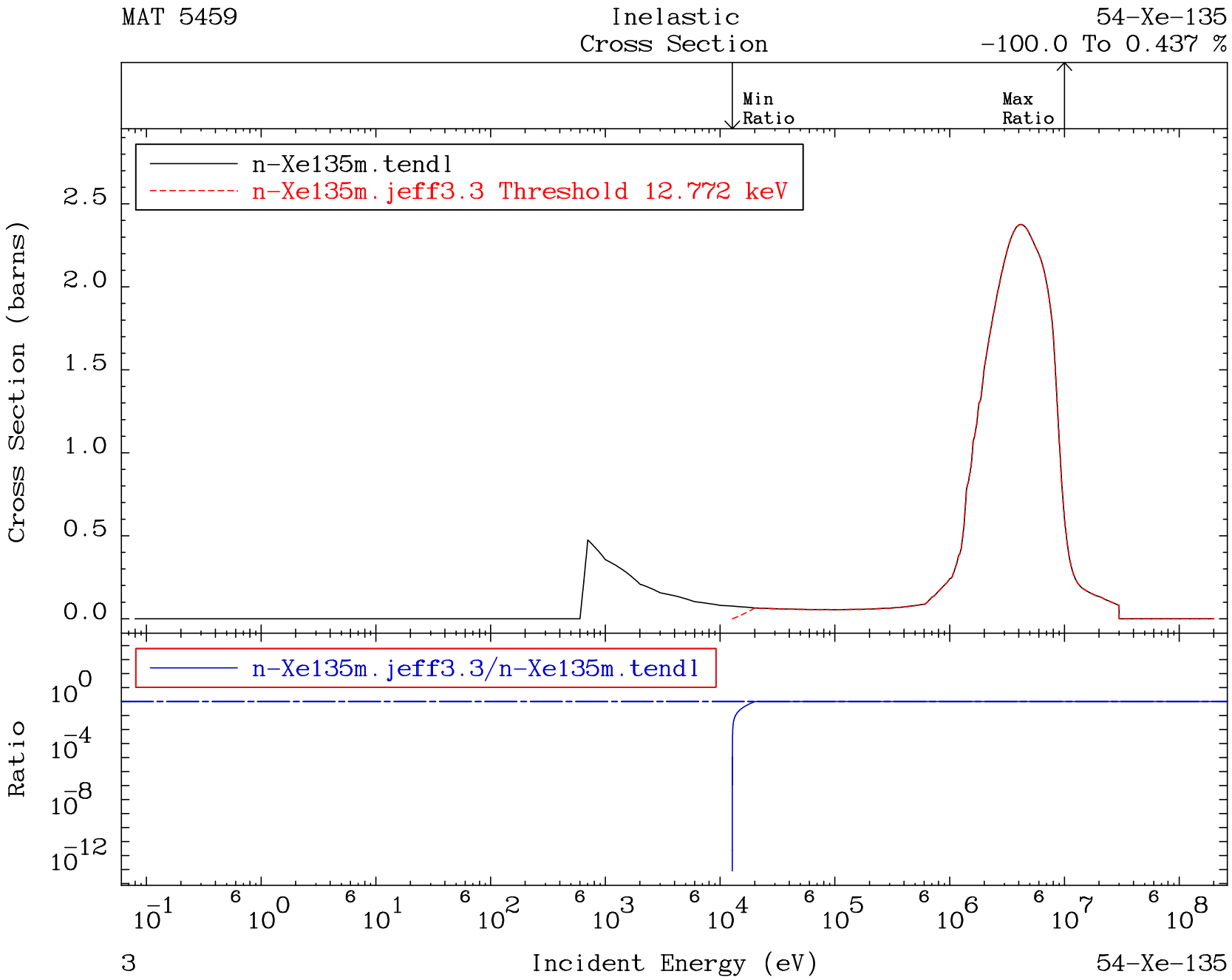
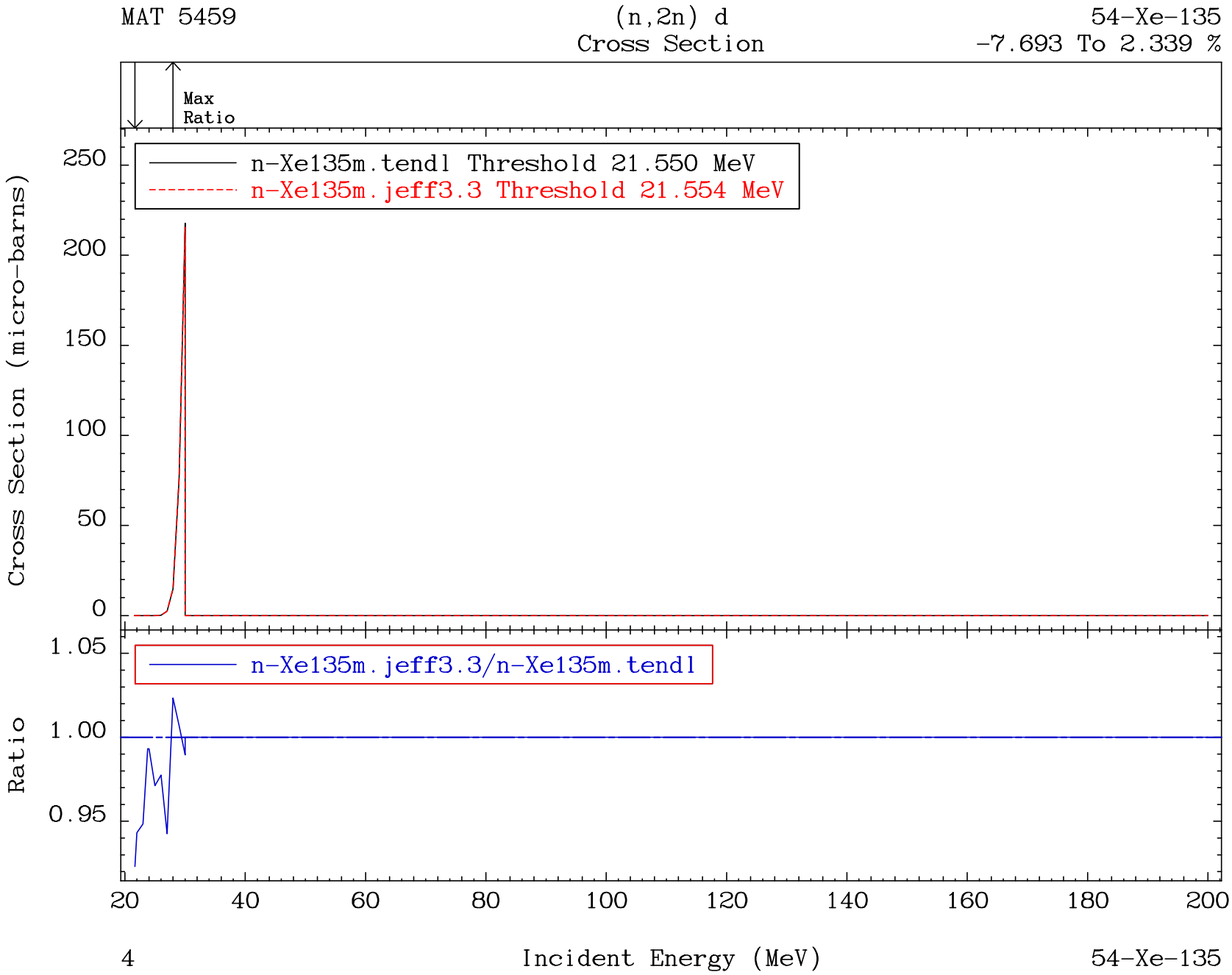
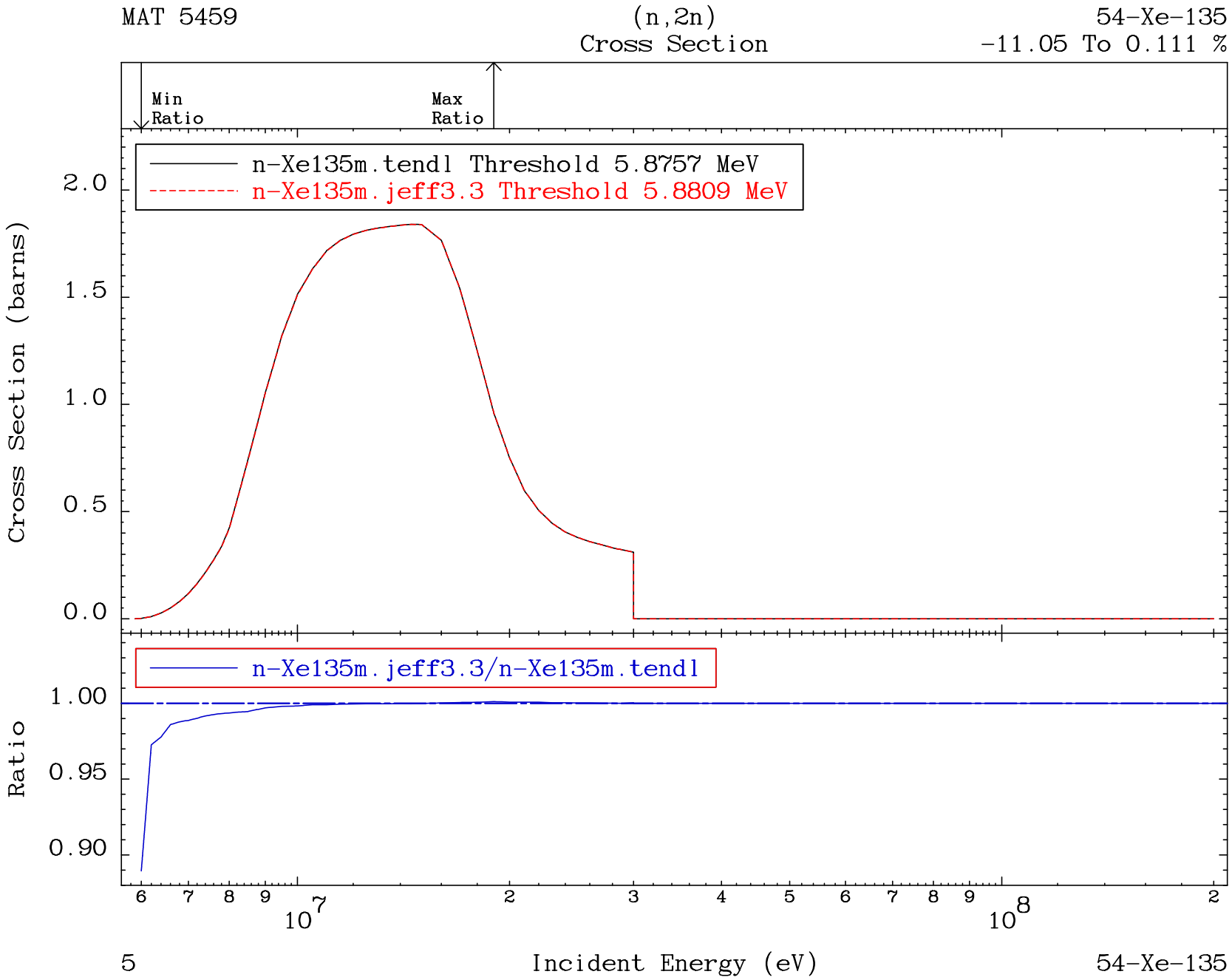
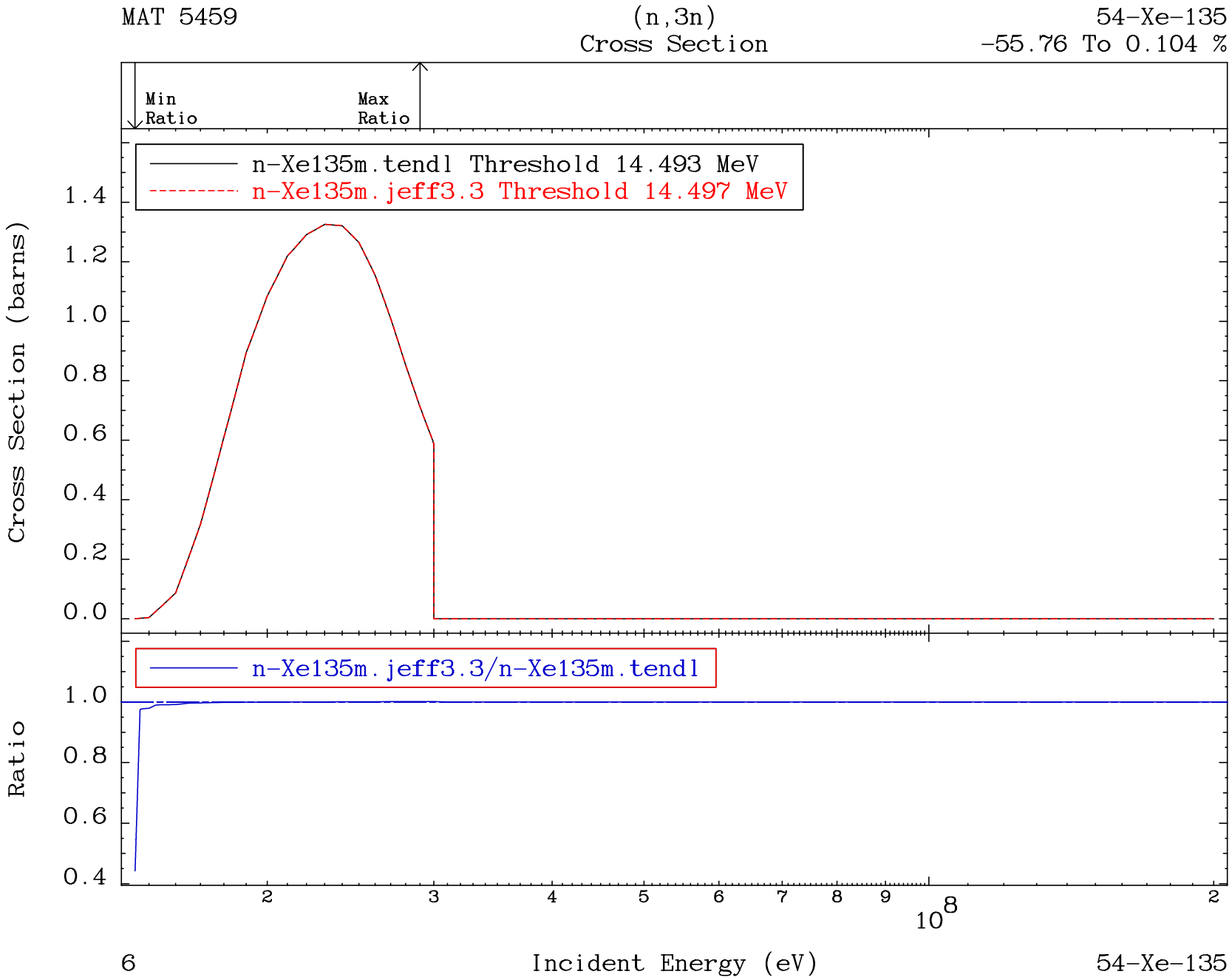

MAT 5459
Total
Cross Section
54-Xe-135
-84.45 To 9999. %
Max
Ratio
Min
Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
1
54-Xe-135

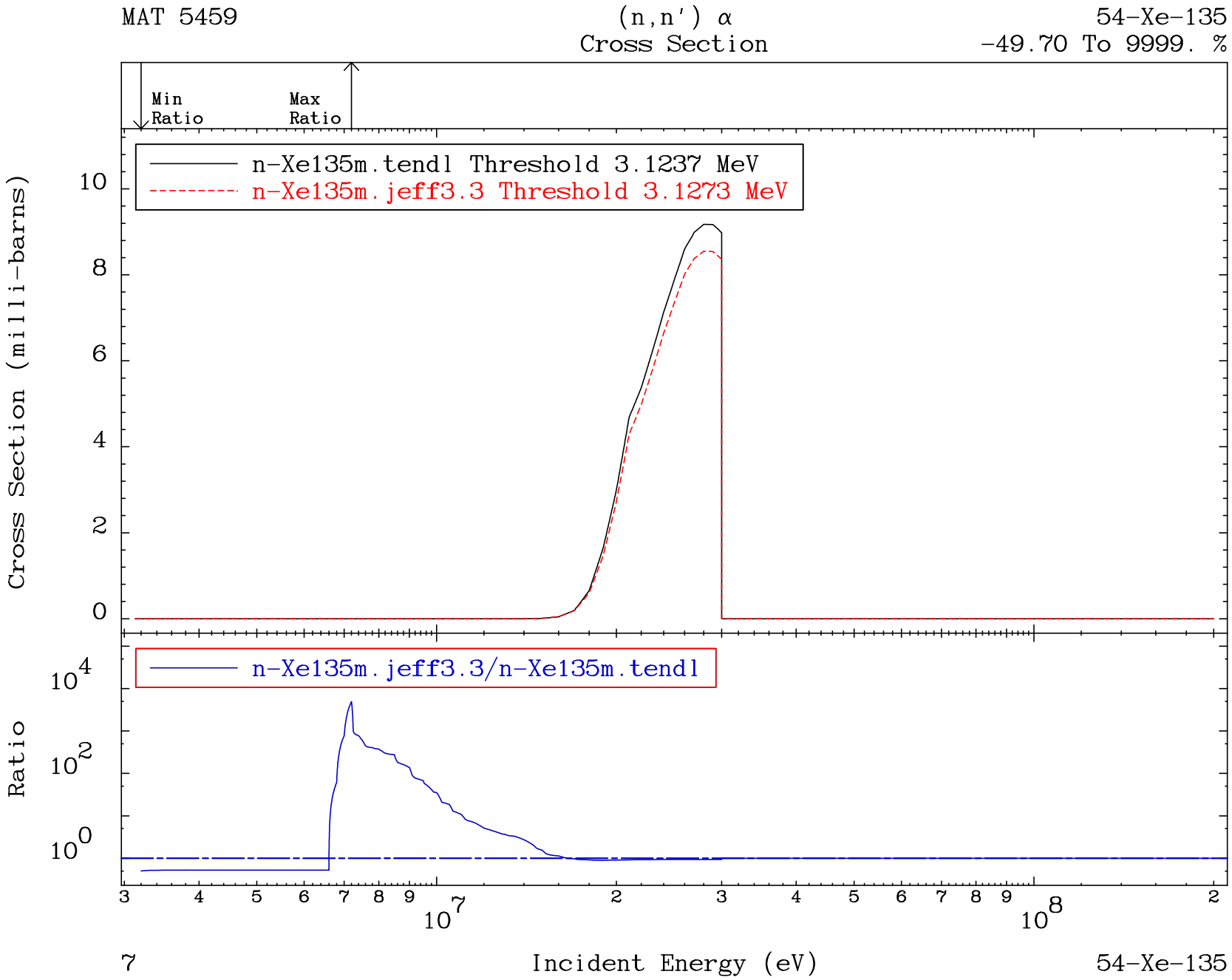

MAT 5459
Elastic
Cross Section
54-Xe-135
-84.07 To 9999. %
Max
Ratio
Min
Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
2
54-Xe-135

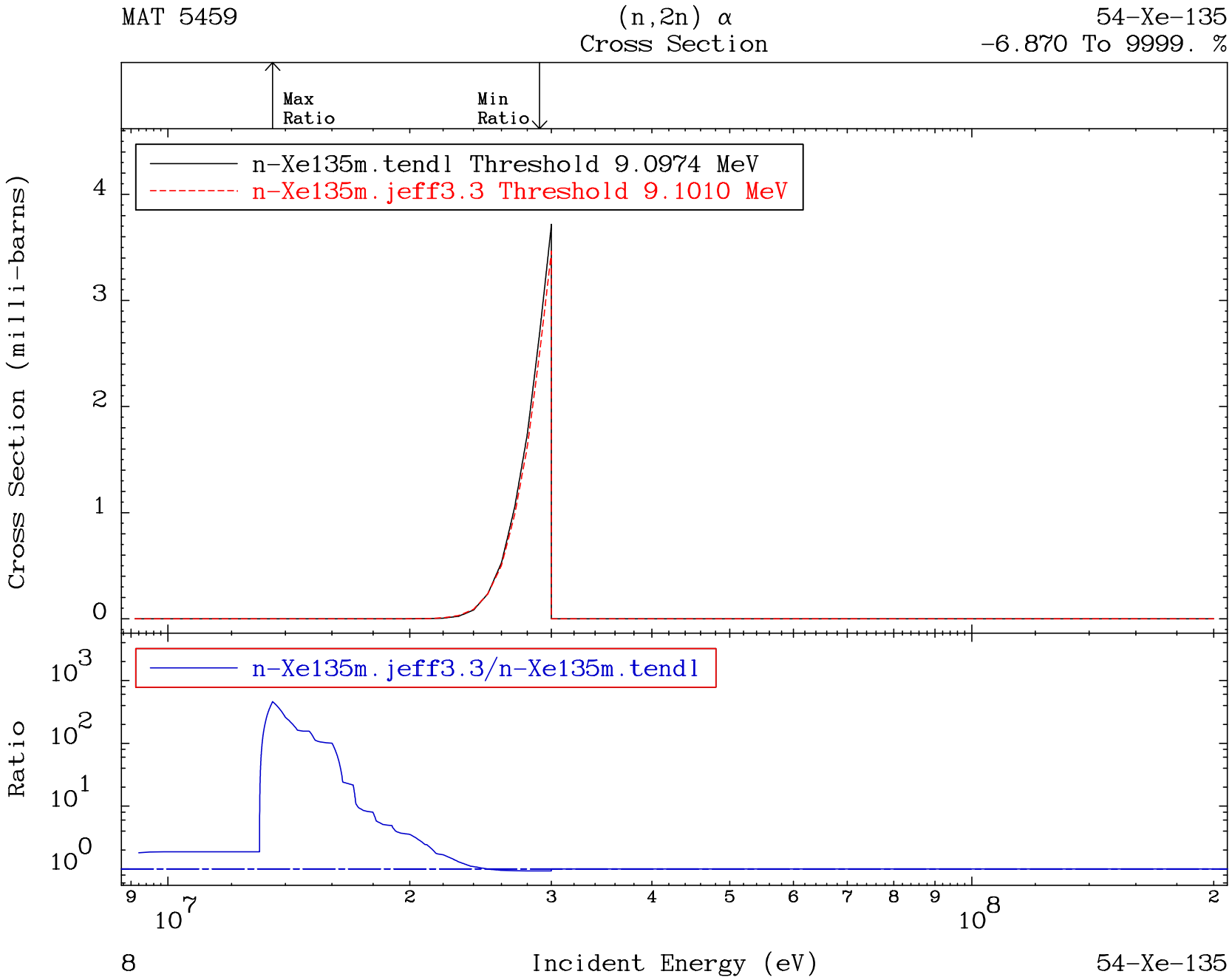

MAT 5459
Inelastic
Cross Section
54-Xe-135
-100.0 To 0.437 %
Min
Ratio
Max
Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3 Threshold 12.772 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^-4
10^-8
10^-12
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
3
Incident Energy (eV)
54-Xe-135

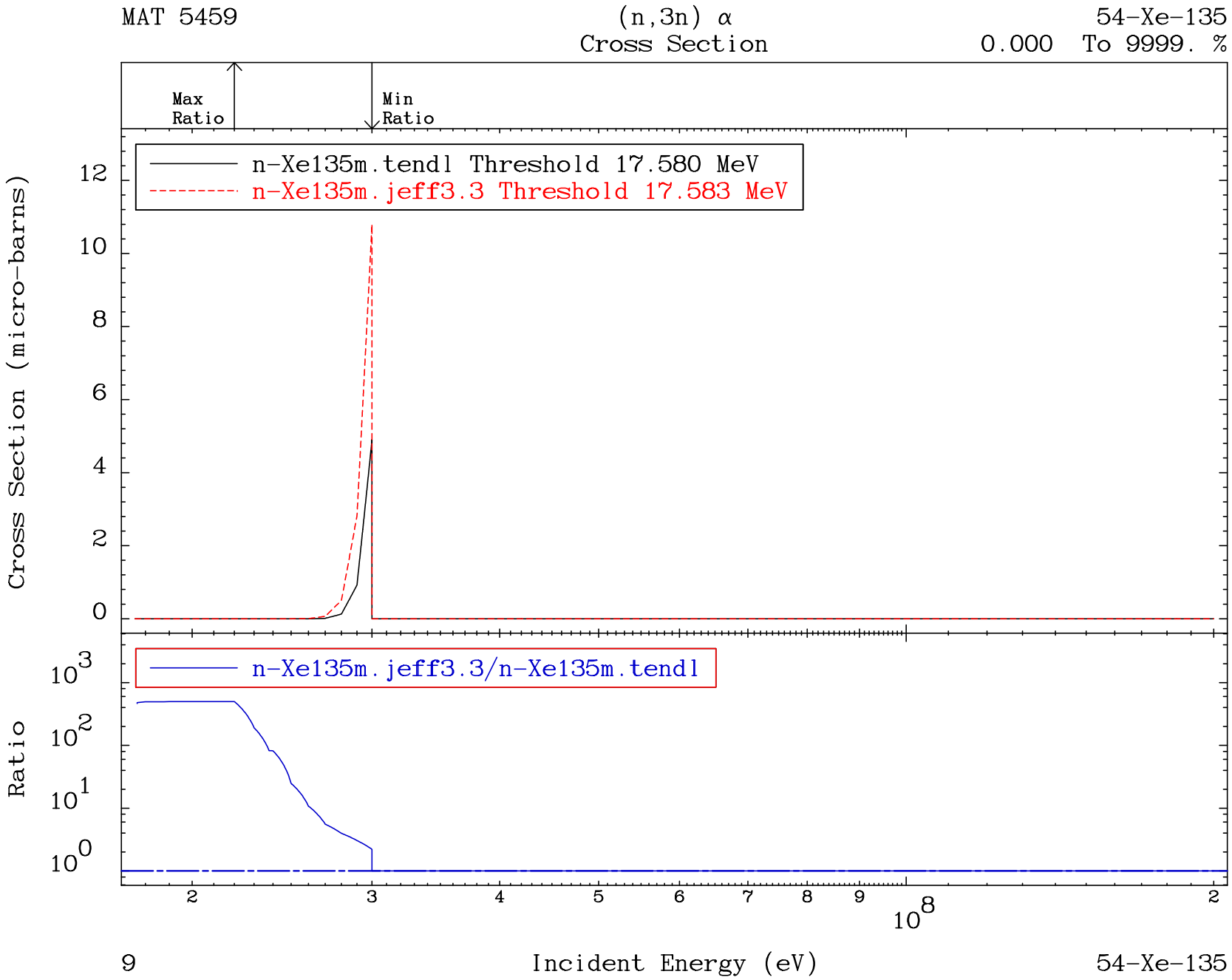

MAT 5459
(n,2n) d
Cross Section
54-Xe-135
-7.693 To 2.339 %
Max
Ratio
n-Xe135m.tendl Threshold 21.550 MeV
n-Xe135m.jeff3.3 Threshold 21.554 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.05
1.00
0.95
20
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
54-Xe-135

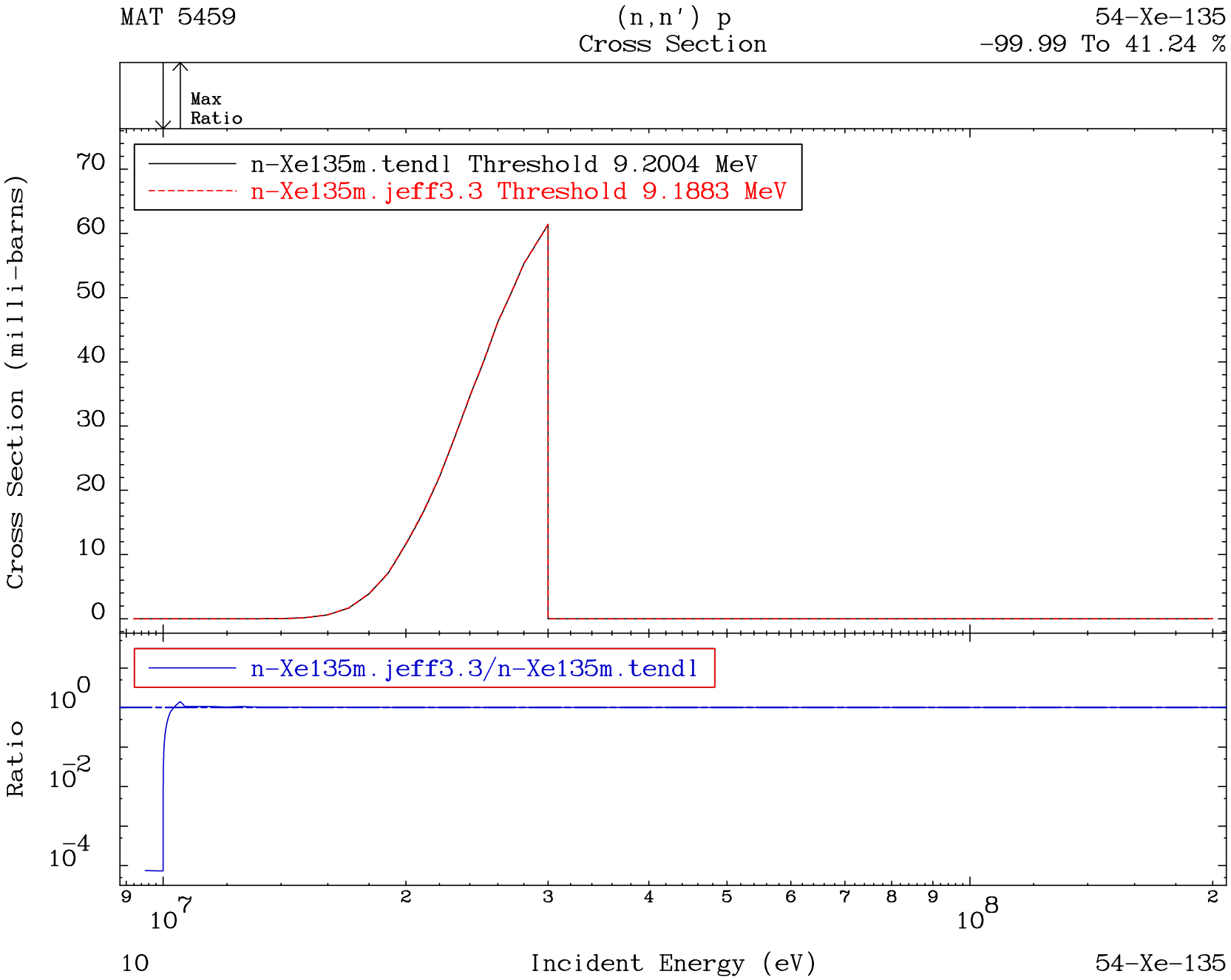

MAT 5459
(n,2n)
Cross Section
54-Xe-135
-11.05 To 0.111 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 5.8757 MeV
n-Xe135m.jeff3.3 Threshold 5.8809 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.95
0.90
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
54-Xe-135

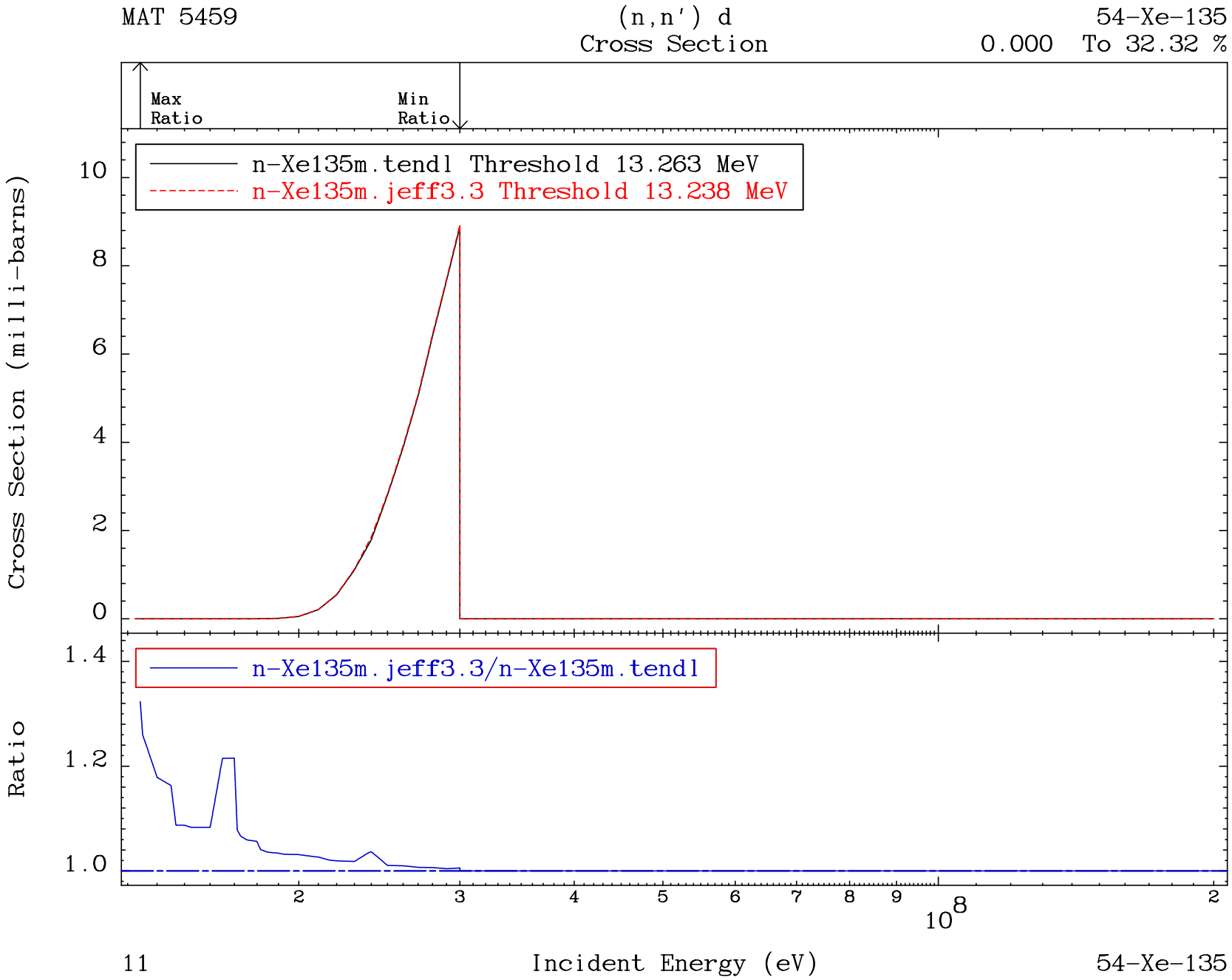

MAT 5459
(n,3n)
Cross Section
54-Xe-135
-55.76 To 0.104 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 14.493 MeV
n-Xe135m.jeff3.3 Threshold 14.497 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
54-Xe-135

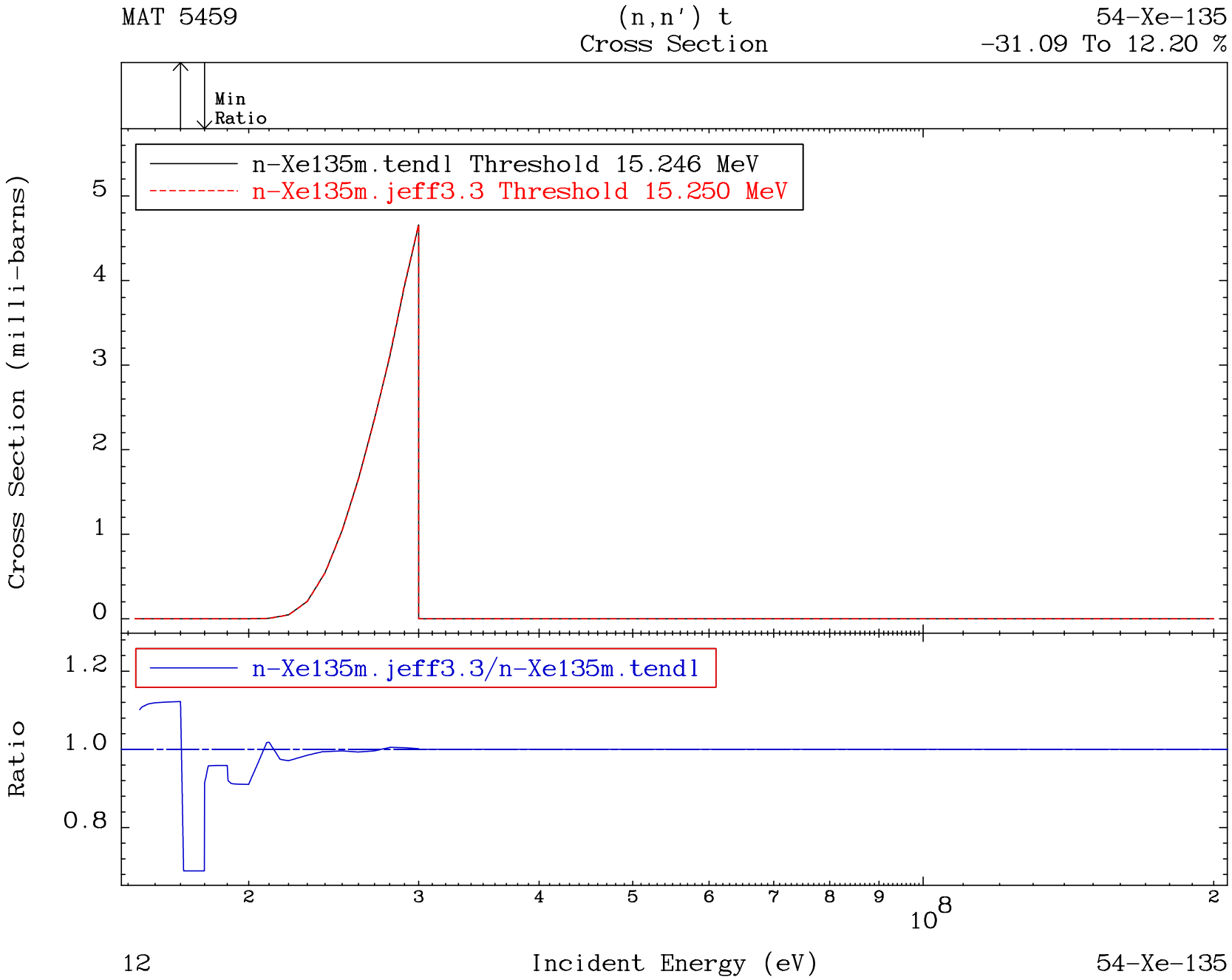

MAT 5459
(n,n') α
Cross Section
54-Xe-135
-49.70 To 9999. %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 3.1237 MeV
n-Xe135m.jeff3.3 Threshold 3.1273 MeV
Cross Section (milli-barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
54-Xe-135

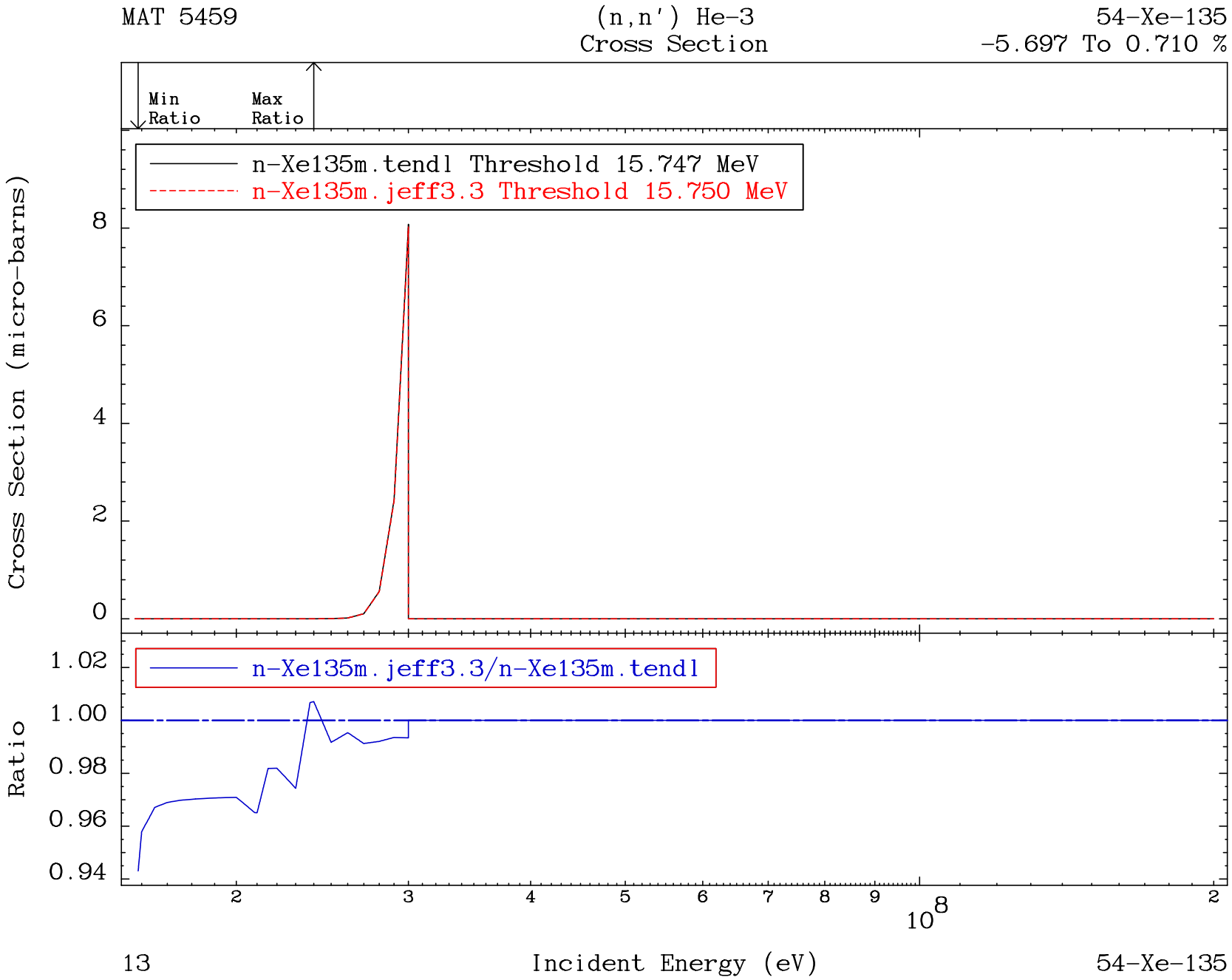

MAT 5459
(n,2n) α
Cross Section
54-Xe-135
-6.870 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 9.0974 MeV
n-Xe135m.jeff3.3 Threshold 9.1010 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^1
10^2
10^3
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
54-Xe-135

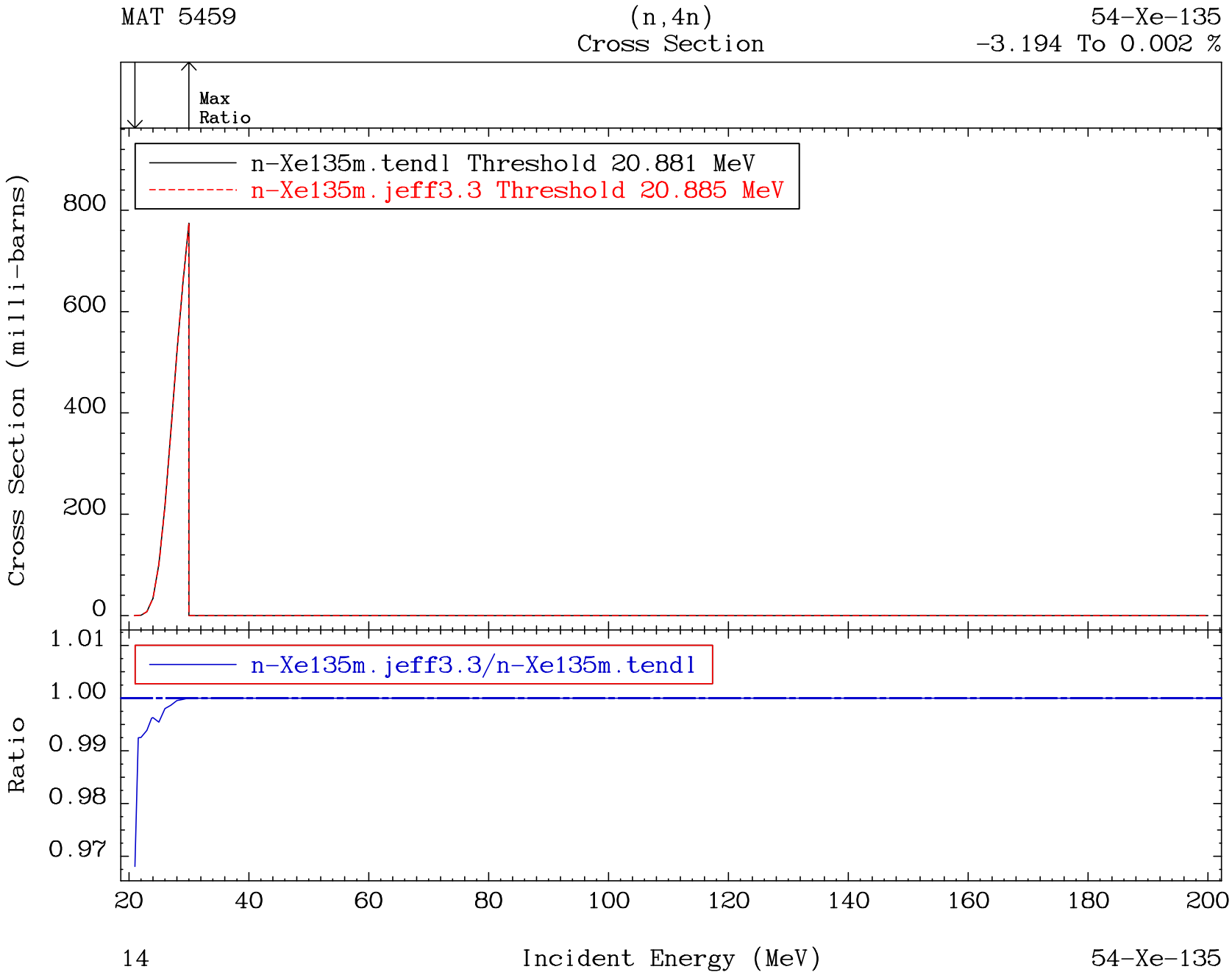

MAT 5459
(n,3n) α
Cross Section
54-Xe-135
0.000 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 17.580 MeV
n-Xe135m.jeff3.3 Threshold 17.583 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^1
10^2
10^3
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
54-Xe-135

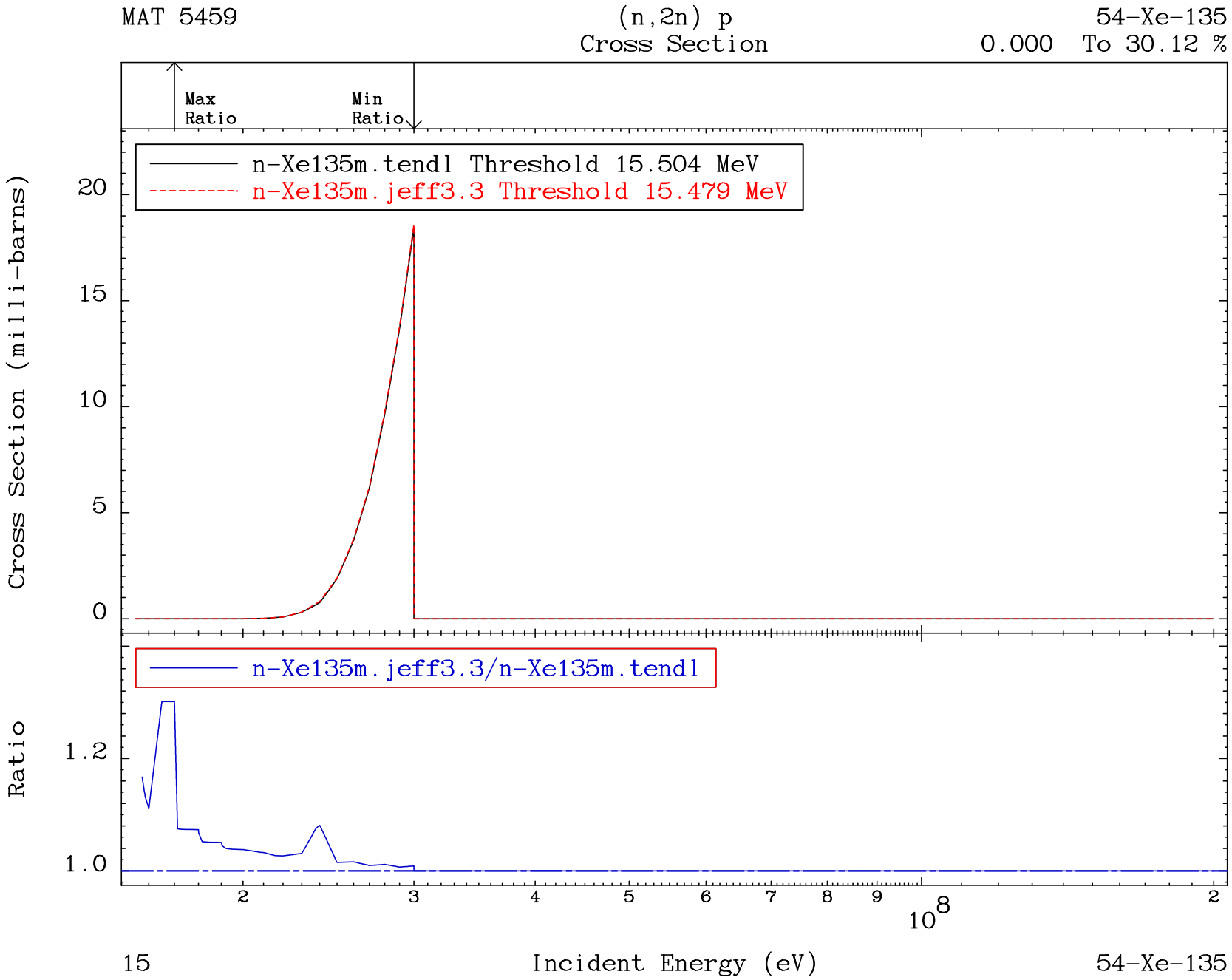

MAT 5459
(n,n') p
Cross Section
54-Xe-135
-99.99 To 41.24 %
Max
Ratio
n-Xe135m.tendl Threshold 9.2004 MeV
n-Xe135m.jeff3.3 Threshold 9.1883 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^-2
10^-4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
54-Xe-135

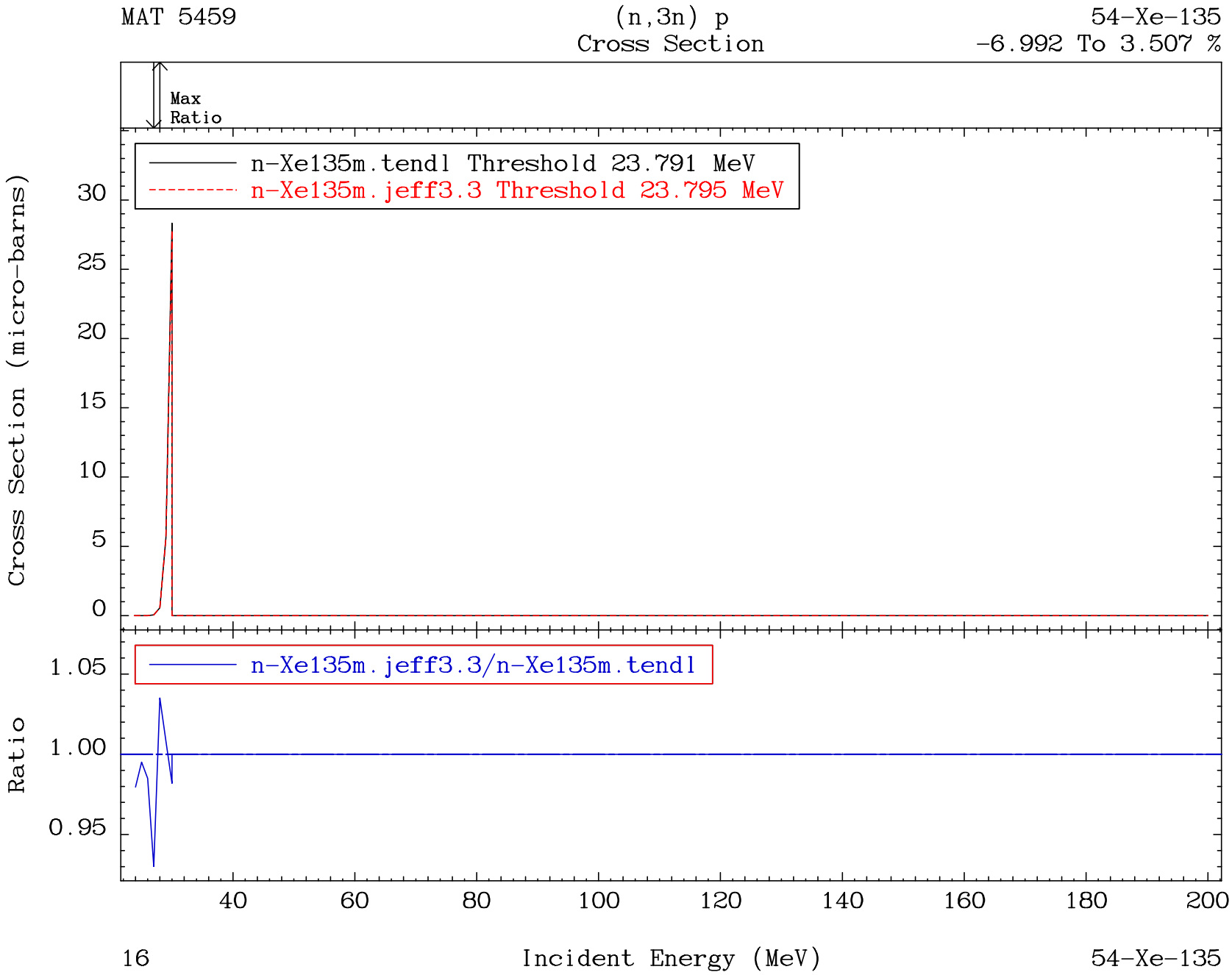

MAT 5459
(n,n') d
Cross Section
54-Xe-135
0.000 To 32.32 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 13.263 MeV
n-Xe135m.jeff3.3 Threshold 13.238 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
54-Xe-135

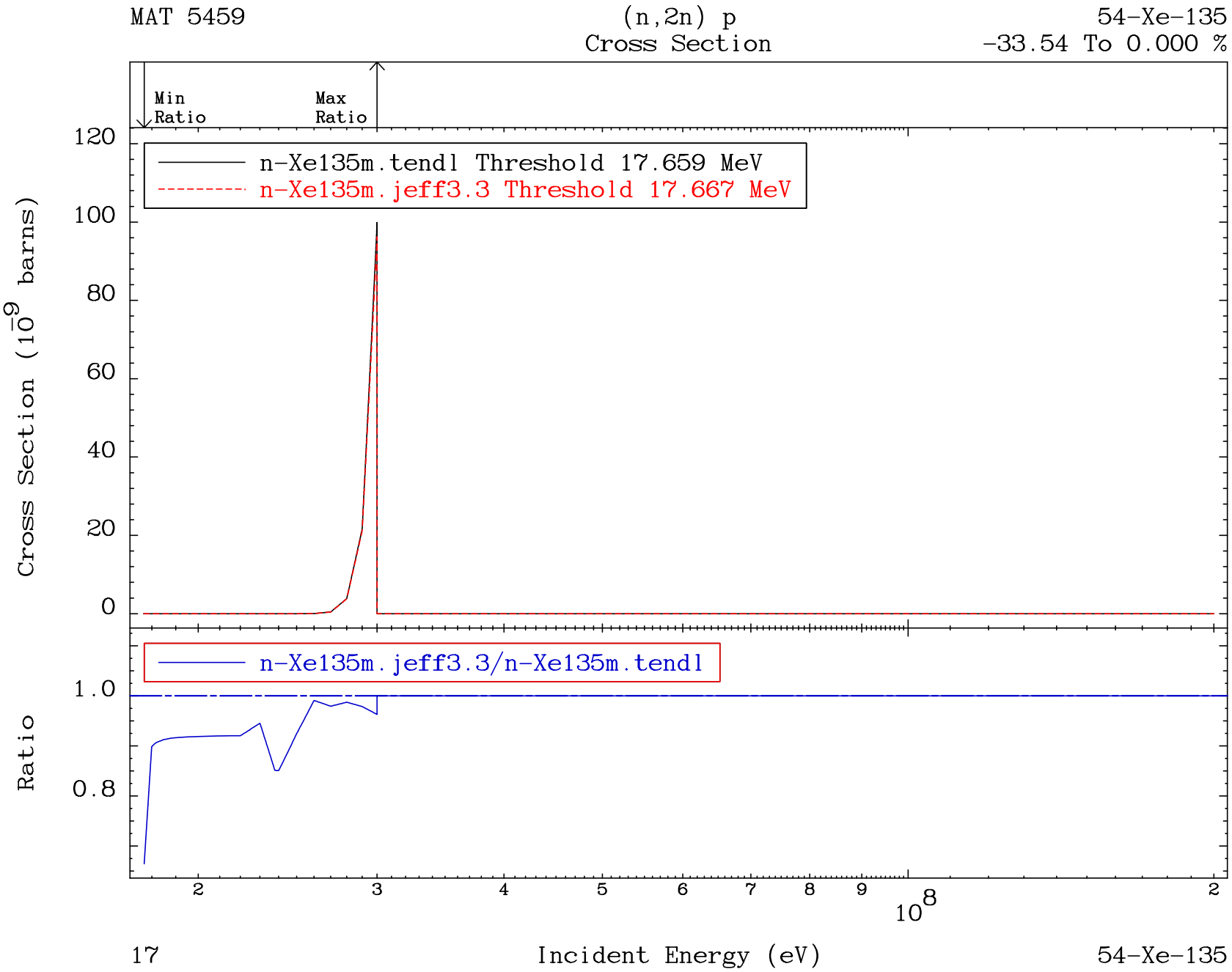

MAT 5459
(n,n') t
Cross Section
54-Xe-135
-31.09 To 12.20 %
Min
Ratio
n-Xe135m.tendl Threshold 15.246 MeV
n-Xe135m.jeff3.3 Threshold 15.250 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
0.8
1.0
1.2
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
54-Xe-135

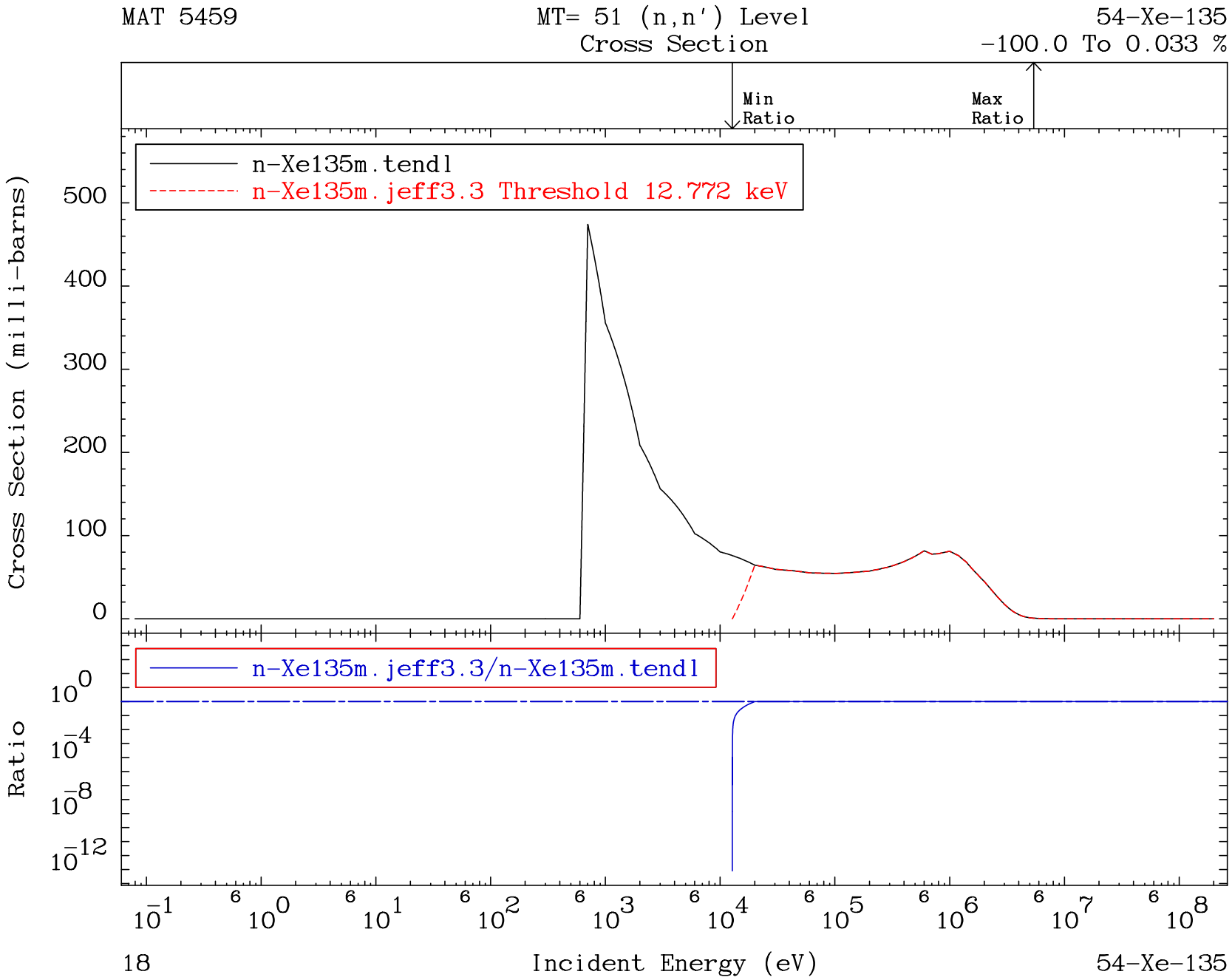

MAT 5459
(n,n') He-3
Cross Section
54-Xe-135
-5.697 To 0.710 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 15.747 MeV
n-Xe135m.jeff3.3 Threshold 15.750 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
0.94
0.96
0.98
1.00
1.02
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
54-Xe-135

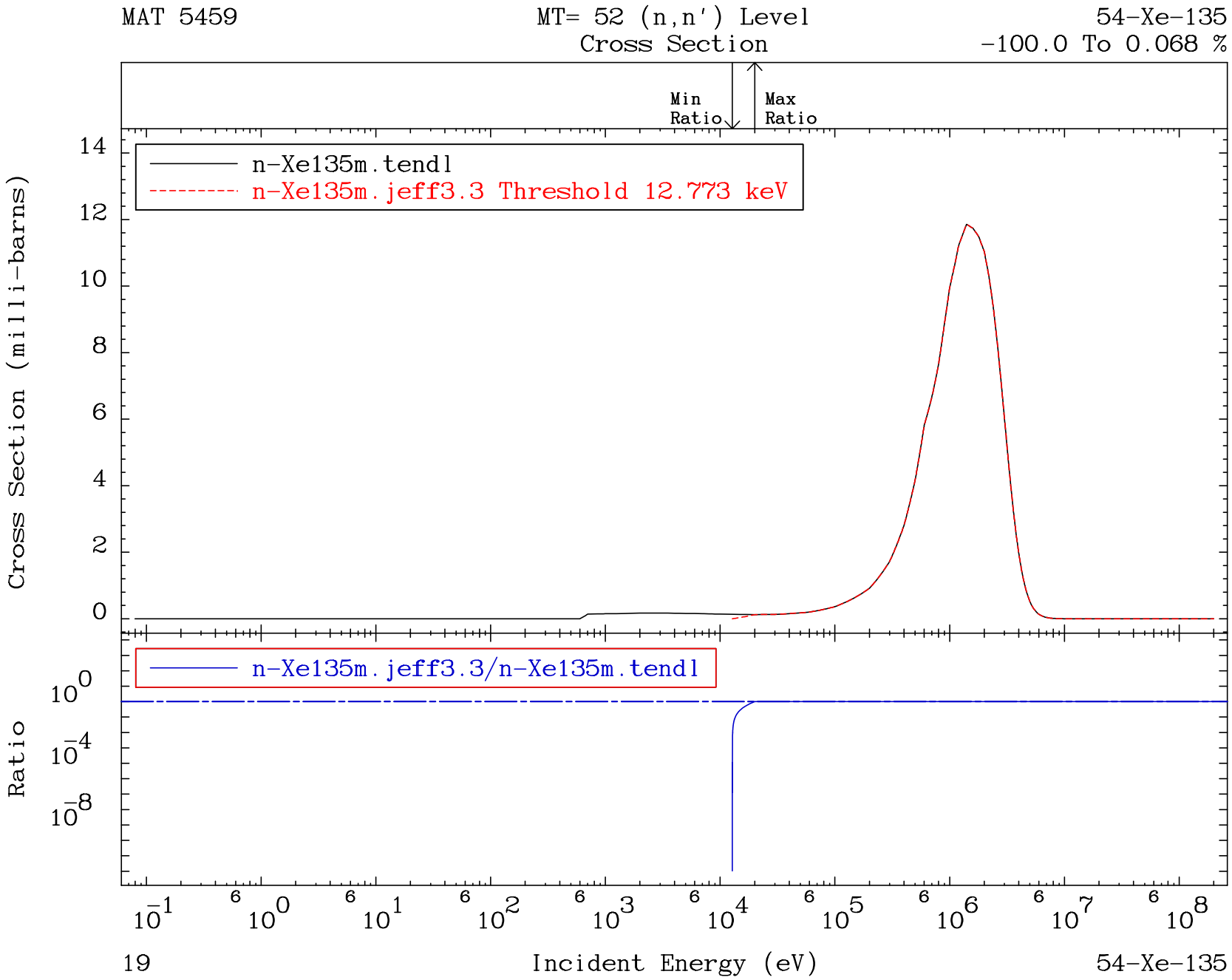

MAT 5459
(n,4n)
Cross Section
54-Xe-135
-3.194 To 0.002 %
Max
Ratio
n-Xe135m.tendl Threshold 20.881 MeV
n-Xe135m.jeff3.3 Threshold 20.885 MeV
Cross Section (milli-barns)
800
600
400
200
0
1.01
1.00
0.99
0.98
0.97
Ratio
n-Xe135m.jeff3.3/n-Xe135m.tendl
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
54-Xe-135

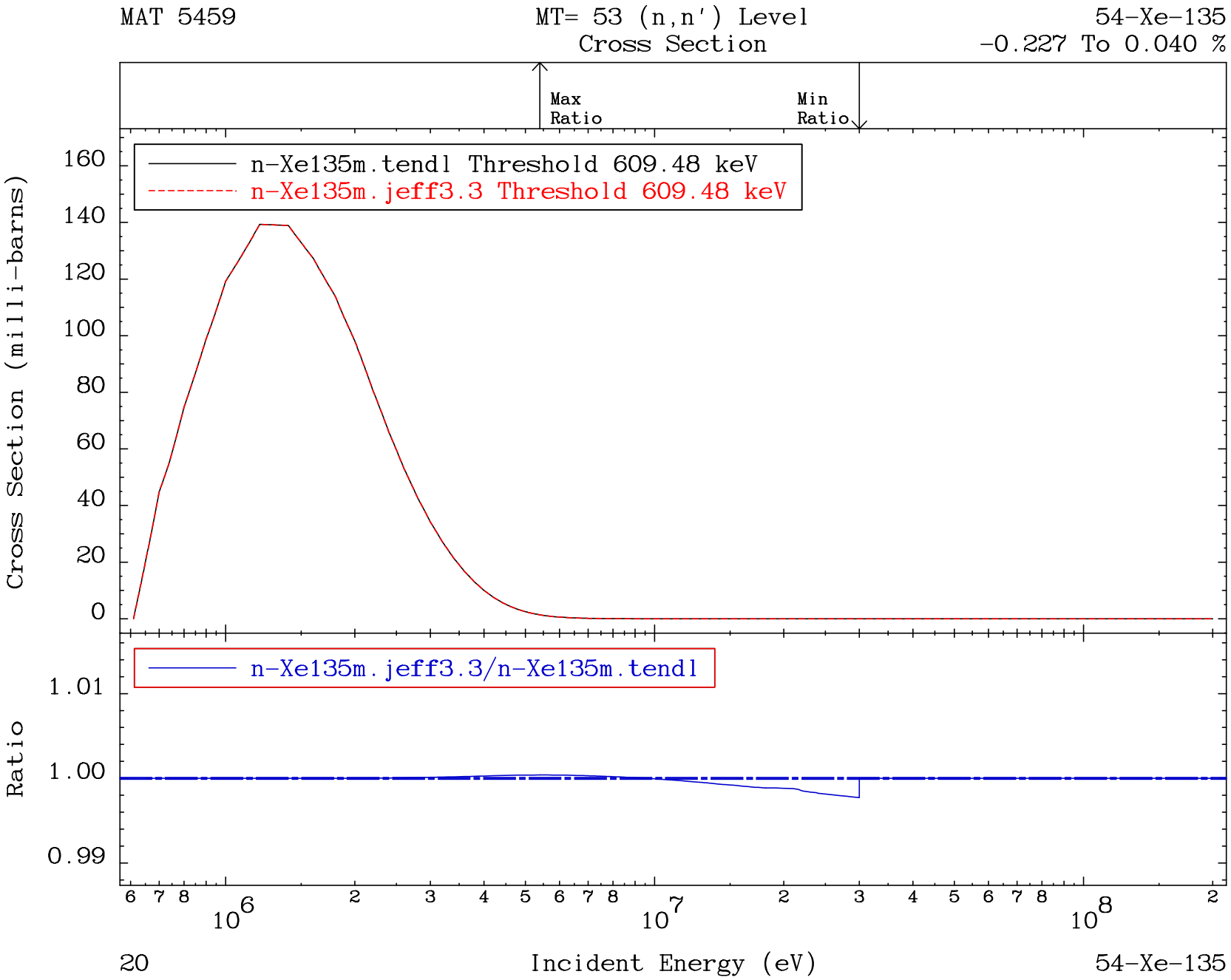

MAT 5459
(n,2n) p
Cross Section
54-Xe-135
0.000 To 30.12 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 15.504 MeV
n-Xe135m.jeff3.3 Threshold 15.479 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
54-Xe-135

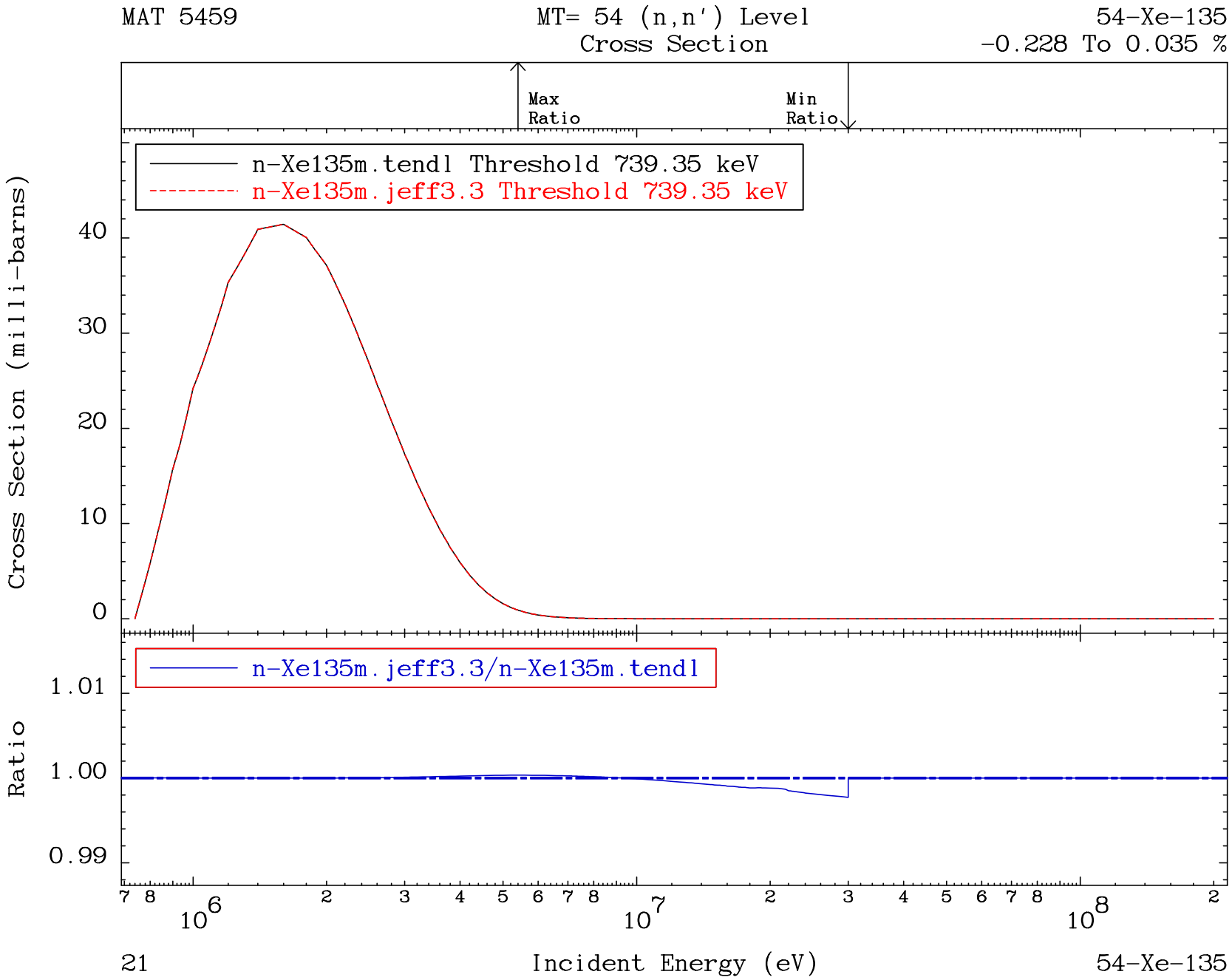

MAT 5459
(n,3n) p
Cross Section
54-Xe-135
-6.992 To 3.507 %
Max
Ratio
n-Xe135m.tendl Threshold 23.791 MeV
n-Xe135m.jeff3.3 Threshold 23.795 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.05
1.00
0.95
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
54-Xe-135

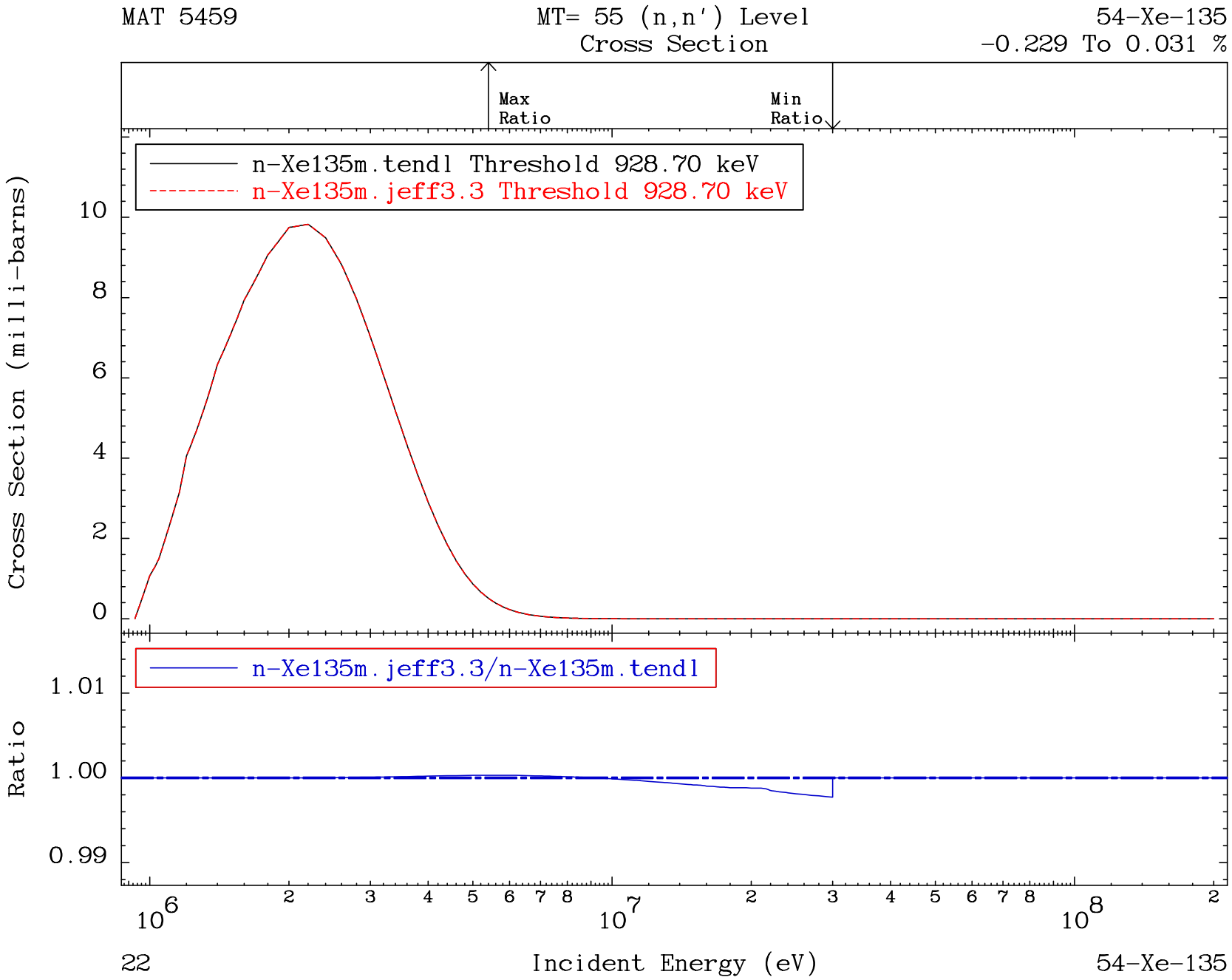

MAT 5459
(n,2n) p
Cross Section
54-Xe-135
-33.54 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 17.659 MeV
n-Xe135m.jeff3.3 Threshold 17.667 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.8
2
3
4
5
6
7
8
9
10^{8}
2
17
Incident Energy (eV)
54-Xe-135

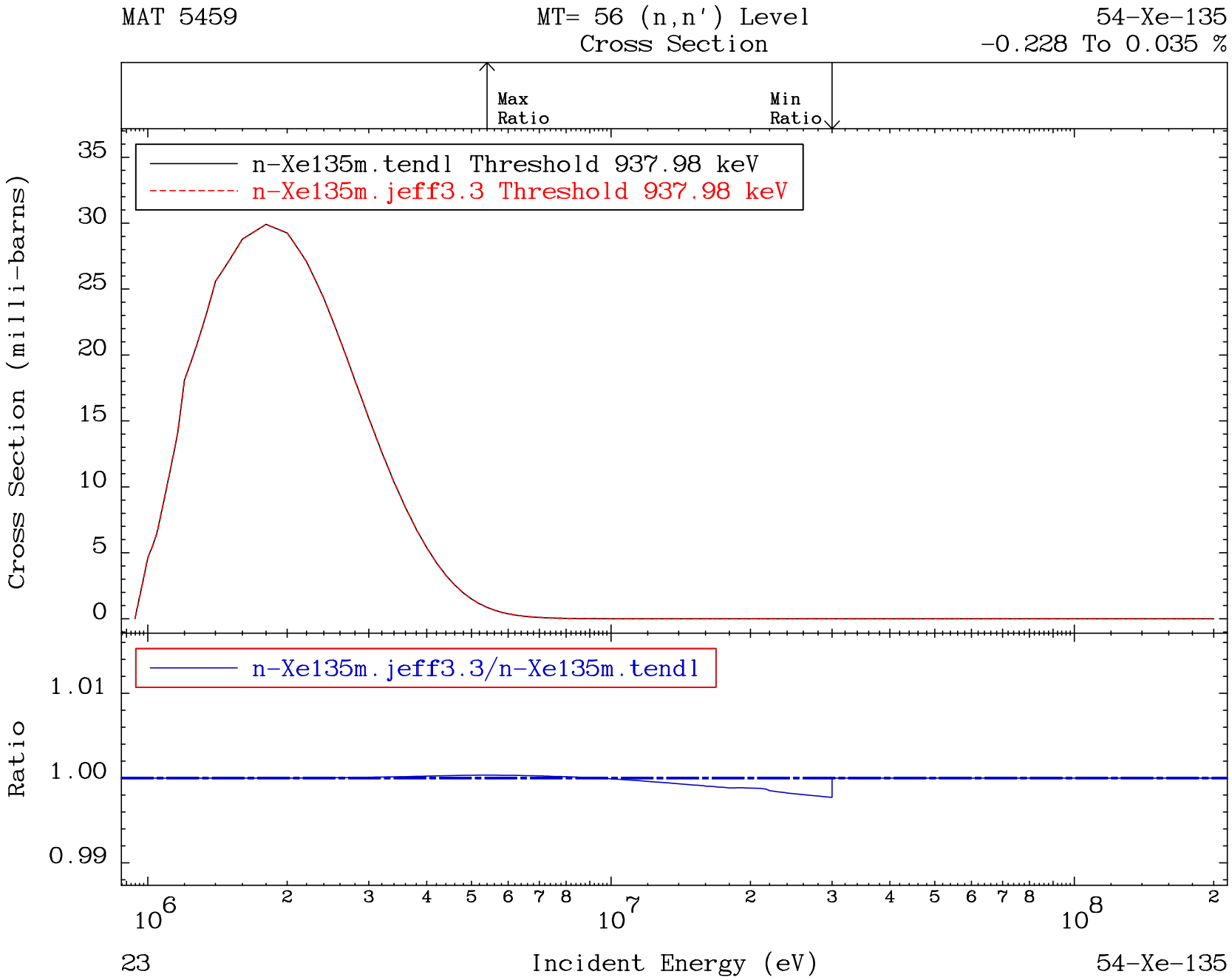

MAT 5459
MT= 51 (n,n') Level
Cross Section
54-Xe-135
-100.0 To 0.033 %
Min
Ratio
Max
Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3 Threshold 12.772 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^-4
10^-8
10^-12
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
18
Incident Energy (eV)
54-Xe-135

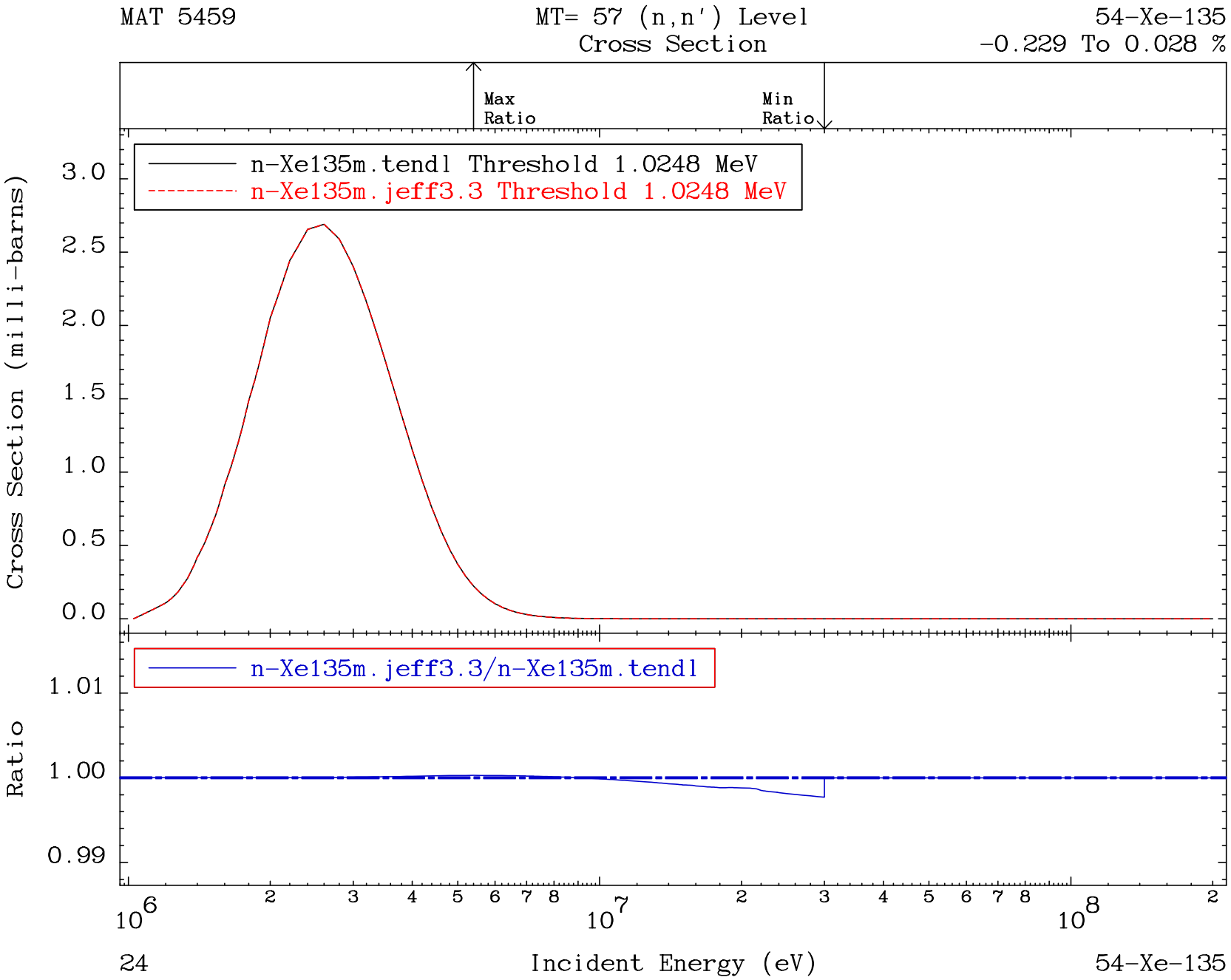

MAT 5459
MT= 52 (n,n') Level
Cross Section
54-Xe-135
-100.0 To 0.068 %
Min Ratio
Max Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3 Threshold 12.773 keV
Cross Section (milli-barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
19
54-Xe-135

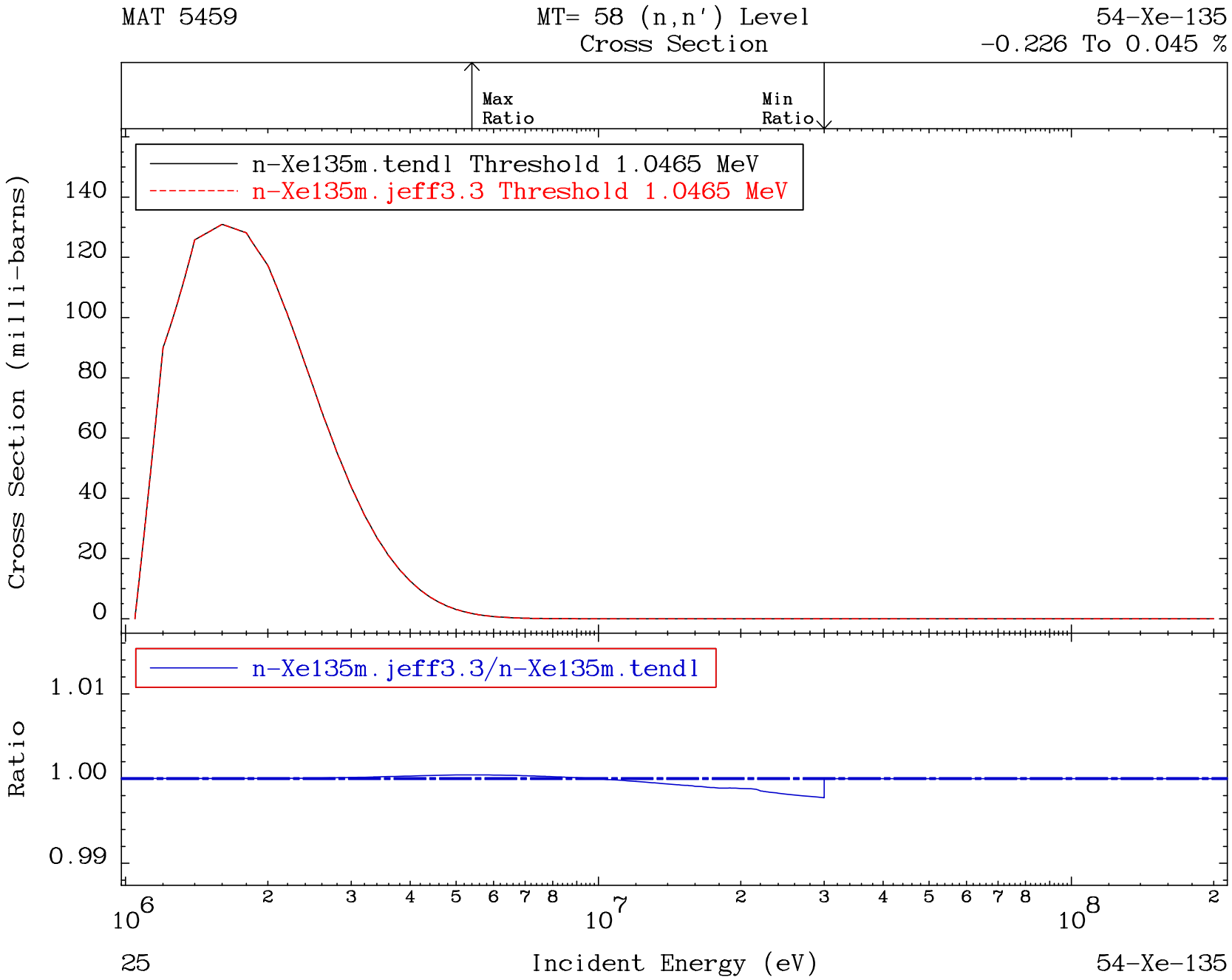

MAT 5459
MT= 53 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.040 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 609.48 keV
n-Xe135m.jeff3.3 Threshold 609.48 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
54-Xe-135

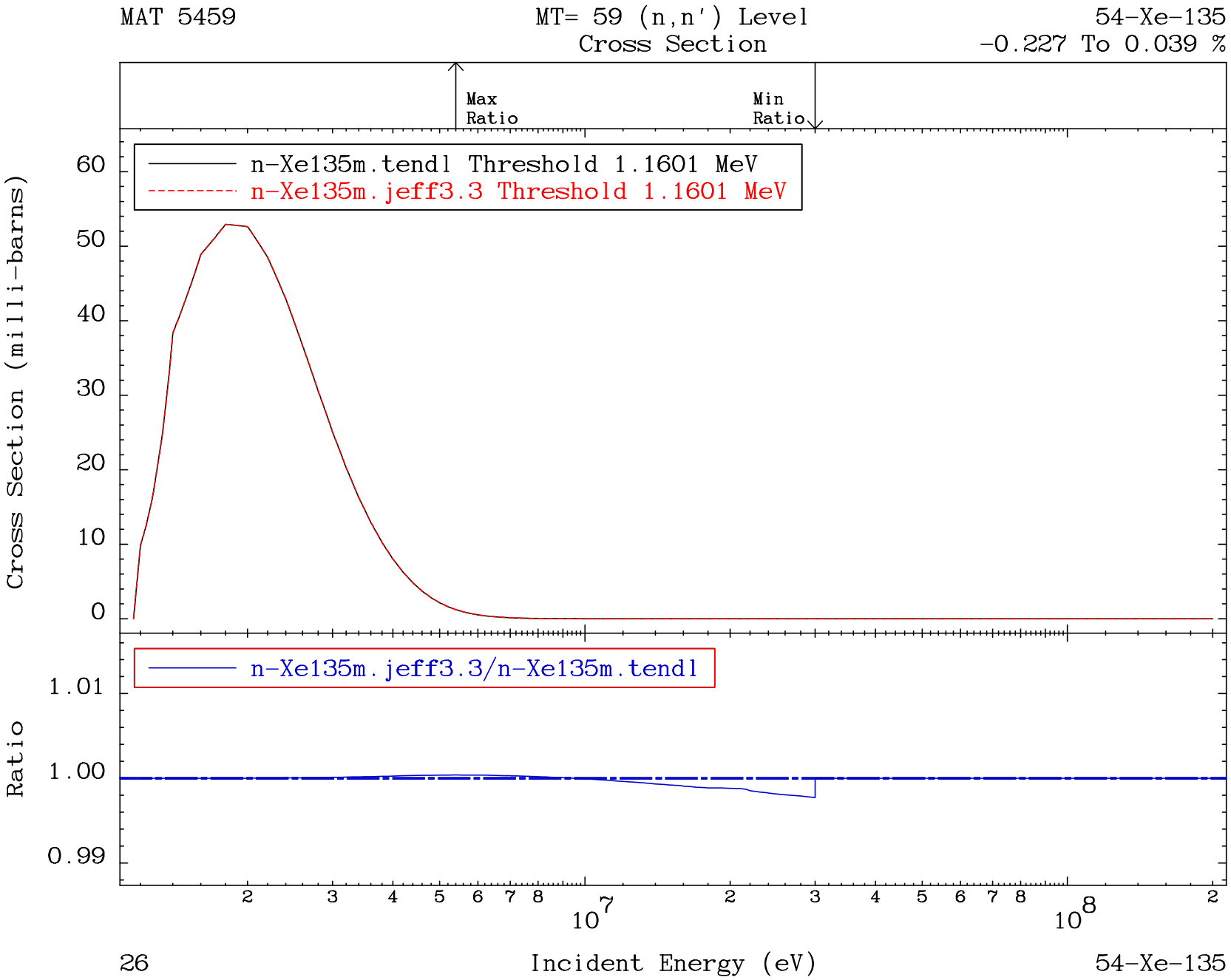

MAT 5459
MT= 54 (n,n') Level
Cross Section
54-Xe-135
-0.228 To 0.035 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 739.35 keV
n-Xe135m.jeff3.3 Threshold 739.35 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7 8
10^7
2
3
4
5
6
7 8
10^8
2
21
Incident Energy (eV)
54-Xe-135

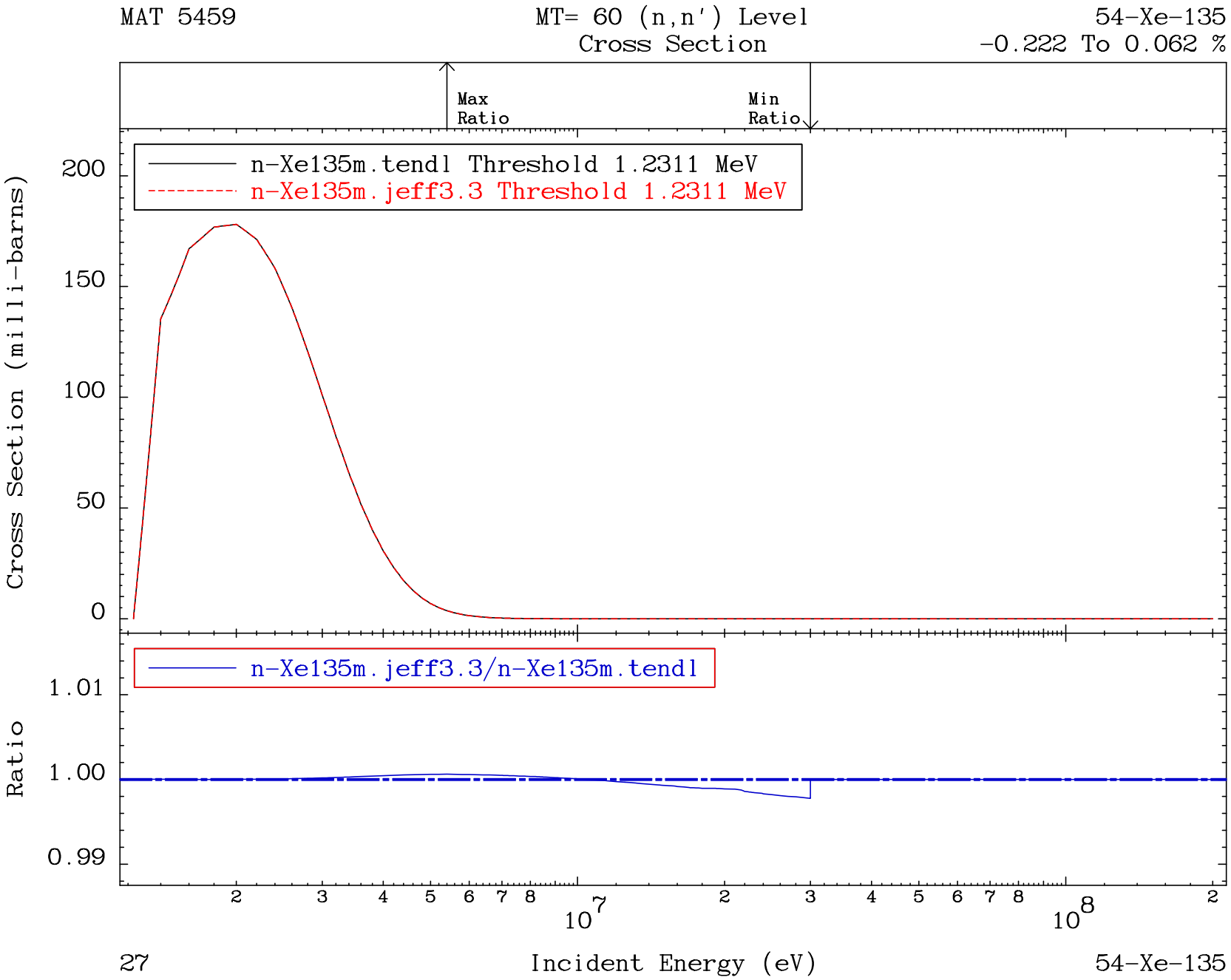

MAT 5459
MT= 55 (n,n') Level
Cross Section
54-Xe-135
-0.229 To 0.031 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 928.70 keV
n-Xe135m.jeff3.3 Threshold 928.70 keV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
54-Xe-135

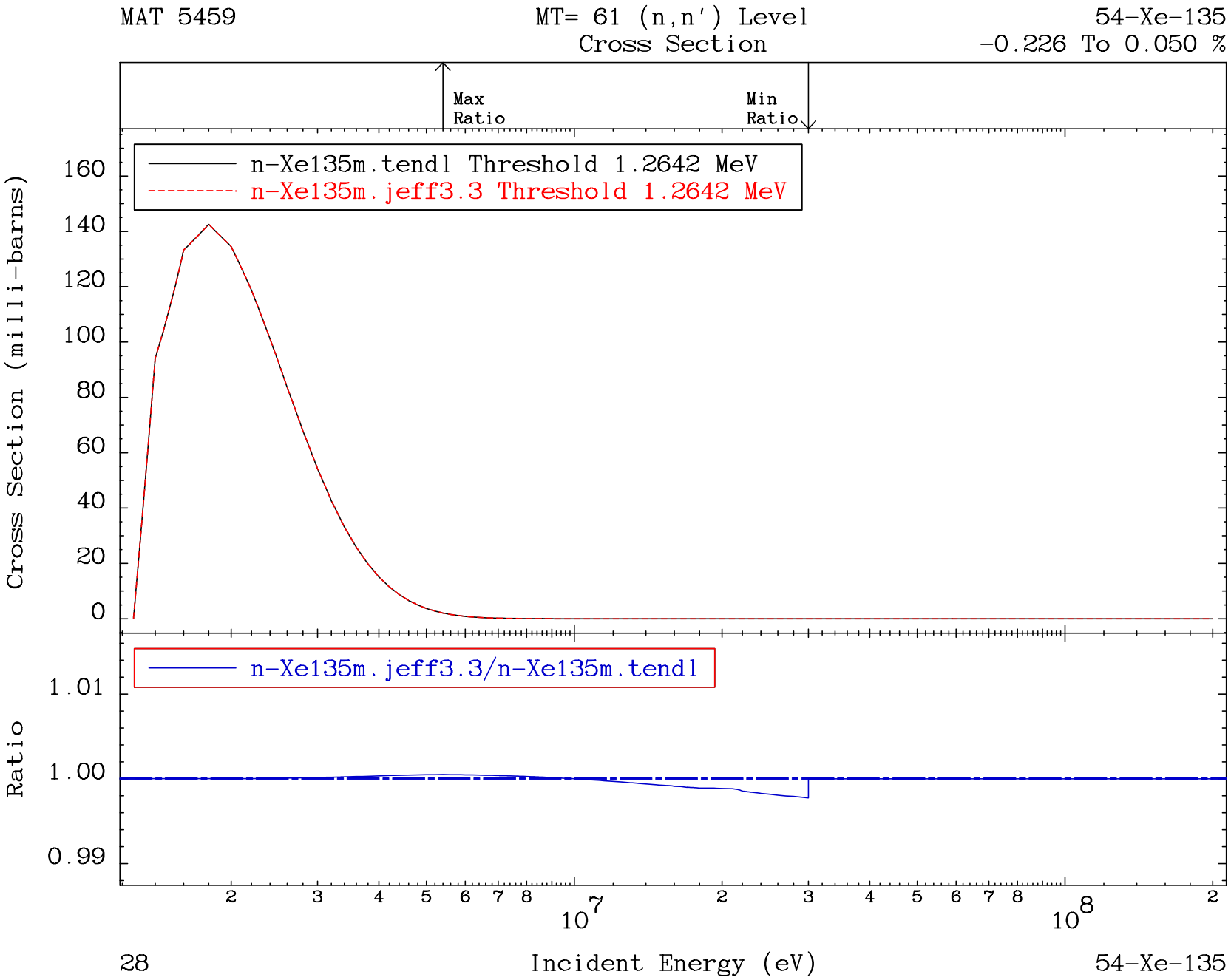

MAT 5459
MT= 56 (n,n') Level
Cross Section
54-Xe-135
-0.228 To 0.035 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 937.98 keV
n-Xe135m.jeff3.3 Threshold 937.98 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
54-Xe-135

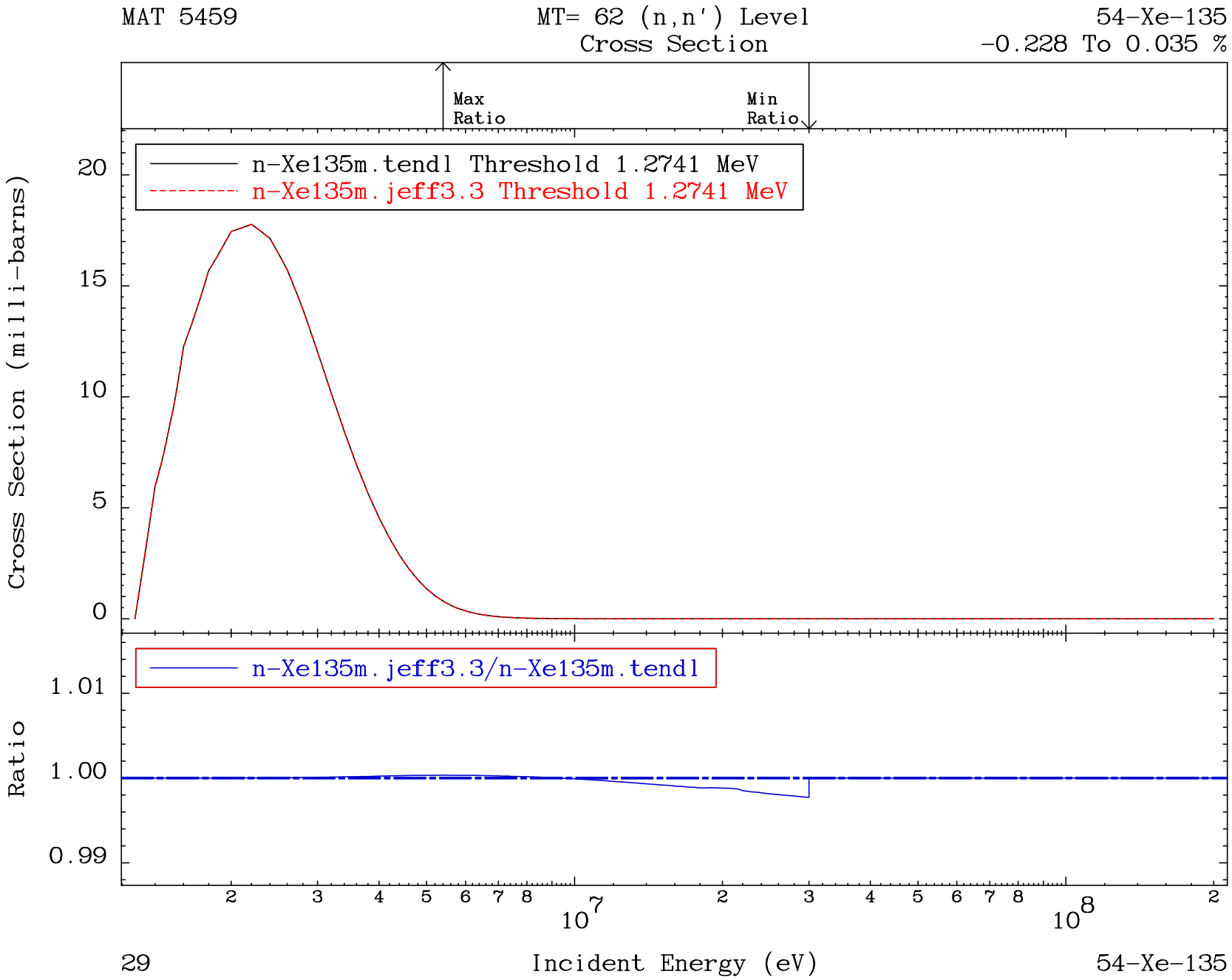

MAT 5459
MT= 57 (n,n') Level
Cross Section
54-Xe-135
-0.229 To 0.028 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.0248 MeV
n-Xe135m.jeff3.3 Threshold 1.0248 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
54-Xe-135

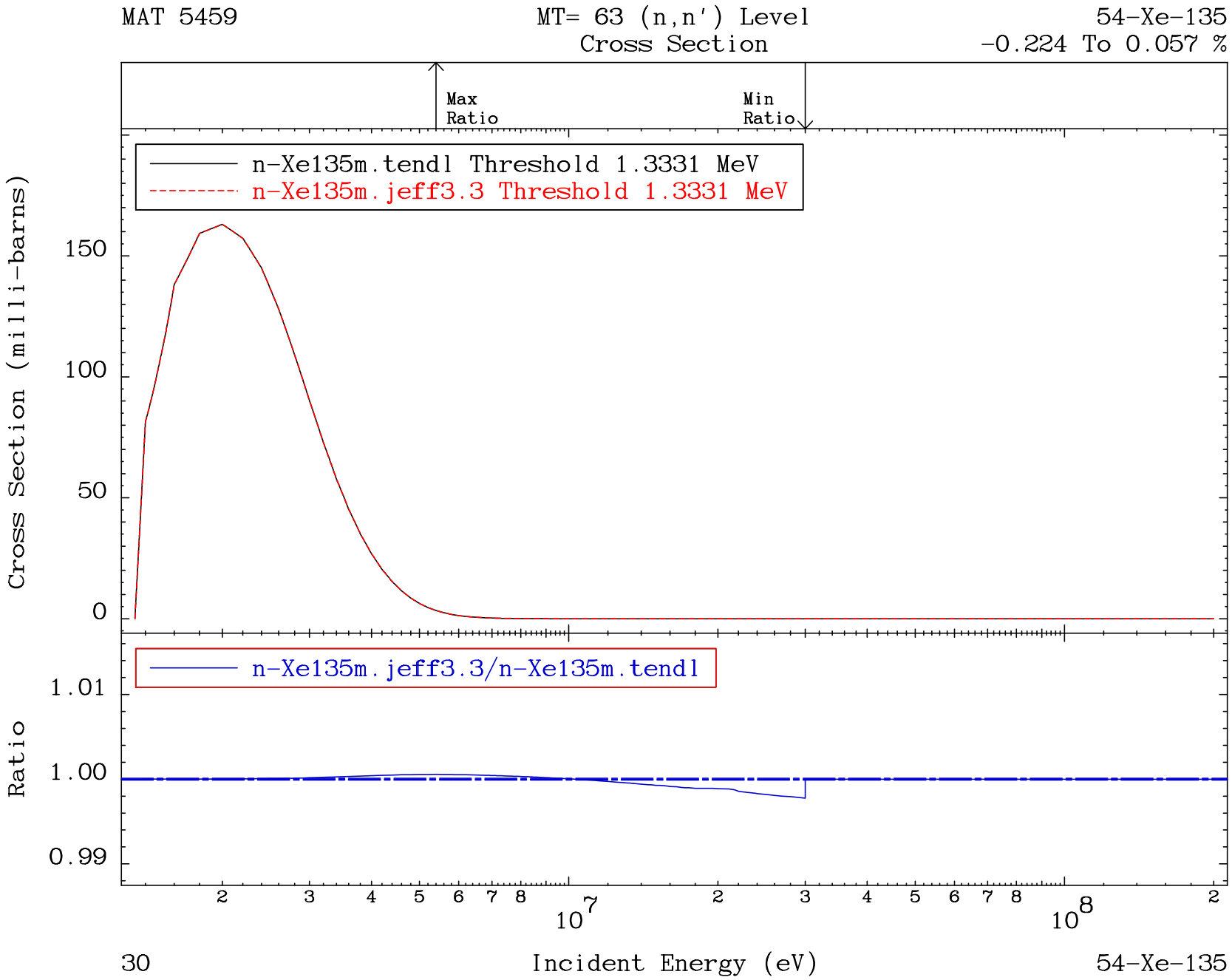

MAT 5459
MT= 58 (n,n') Level
Cross Section
54-Xe-135
-0.226 To 0.045 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.0465 MeV
n-Xe135m.jeff3.3 Threshold 1.0465 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
54-Xe-135

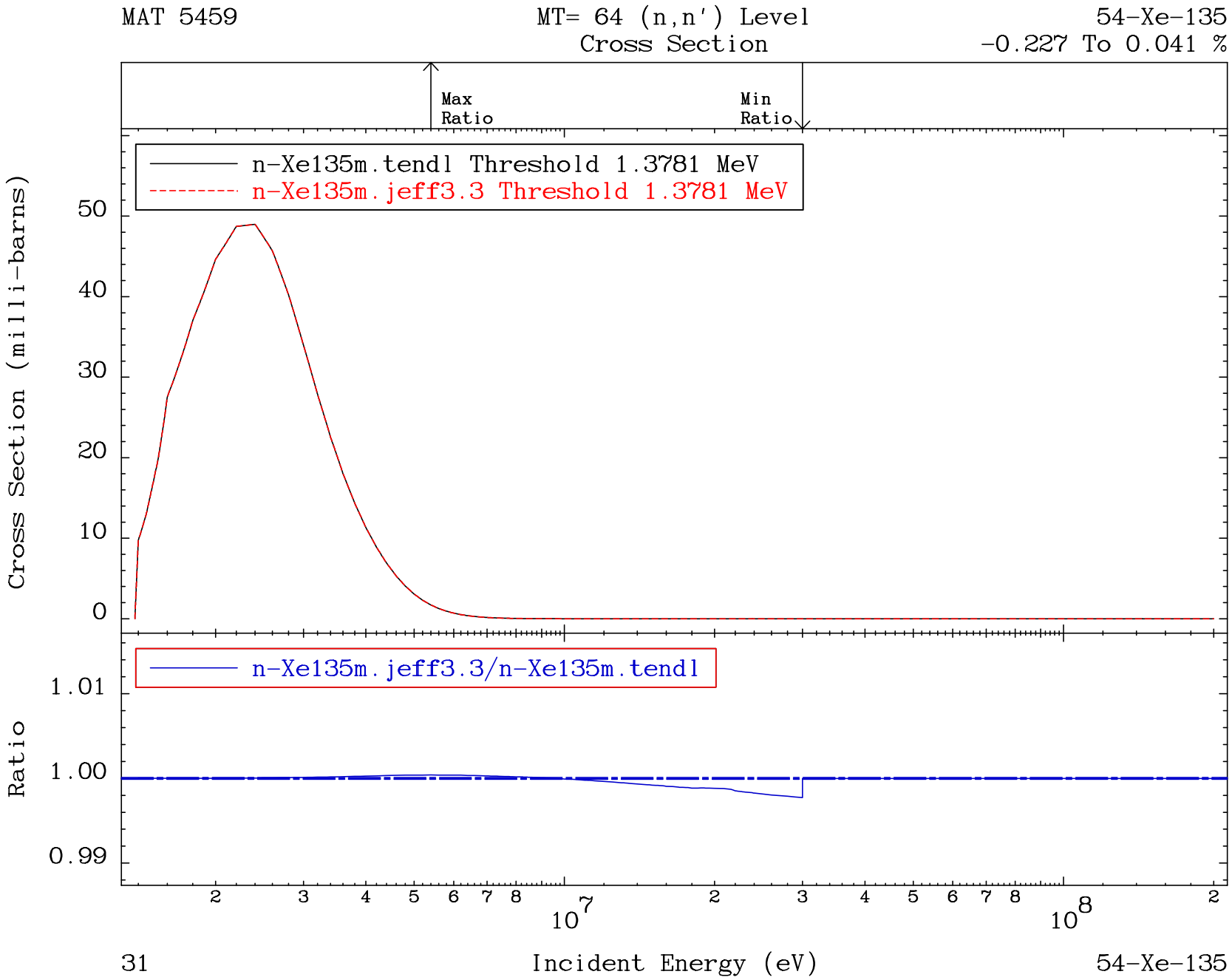

MAT 5459
MT= 59 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.039 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.1601 MeV
n-Xe135m.jeff3.3 Threshold 1.1601 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
54-Xe-135

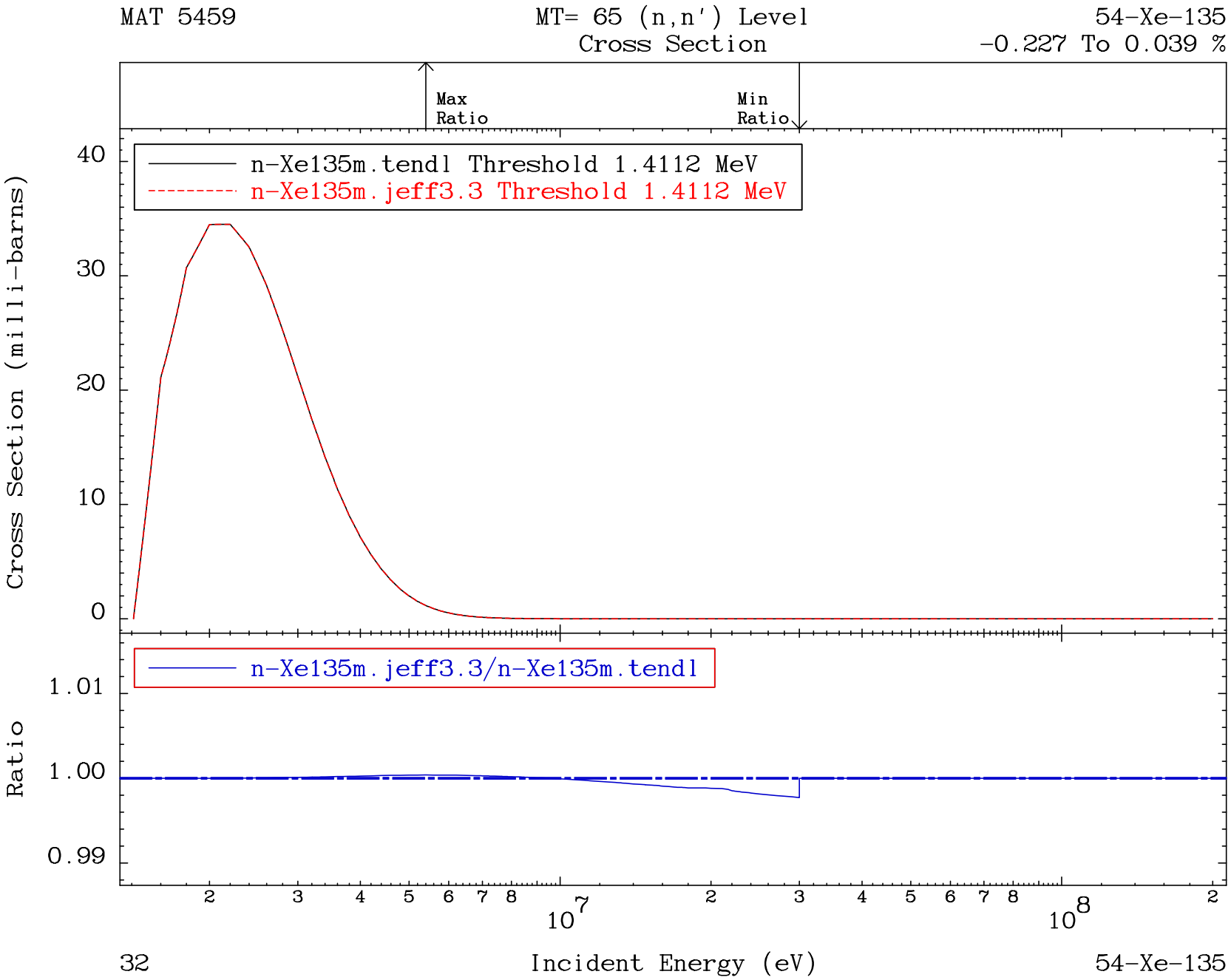

MAT 5459
MT= 60 (n,n') Level
Cross Section
54-Xe-135
-0.222 To 0.062 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.2311 MeV
n-Xe135m.jeff3.3 Threshold 1.2311 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
54-Xe-135

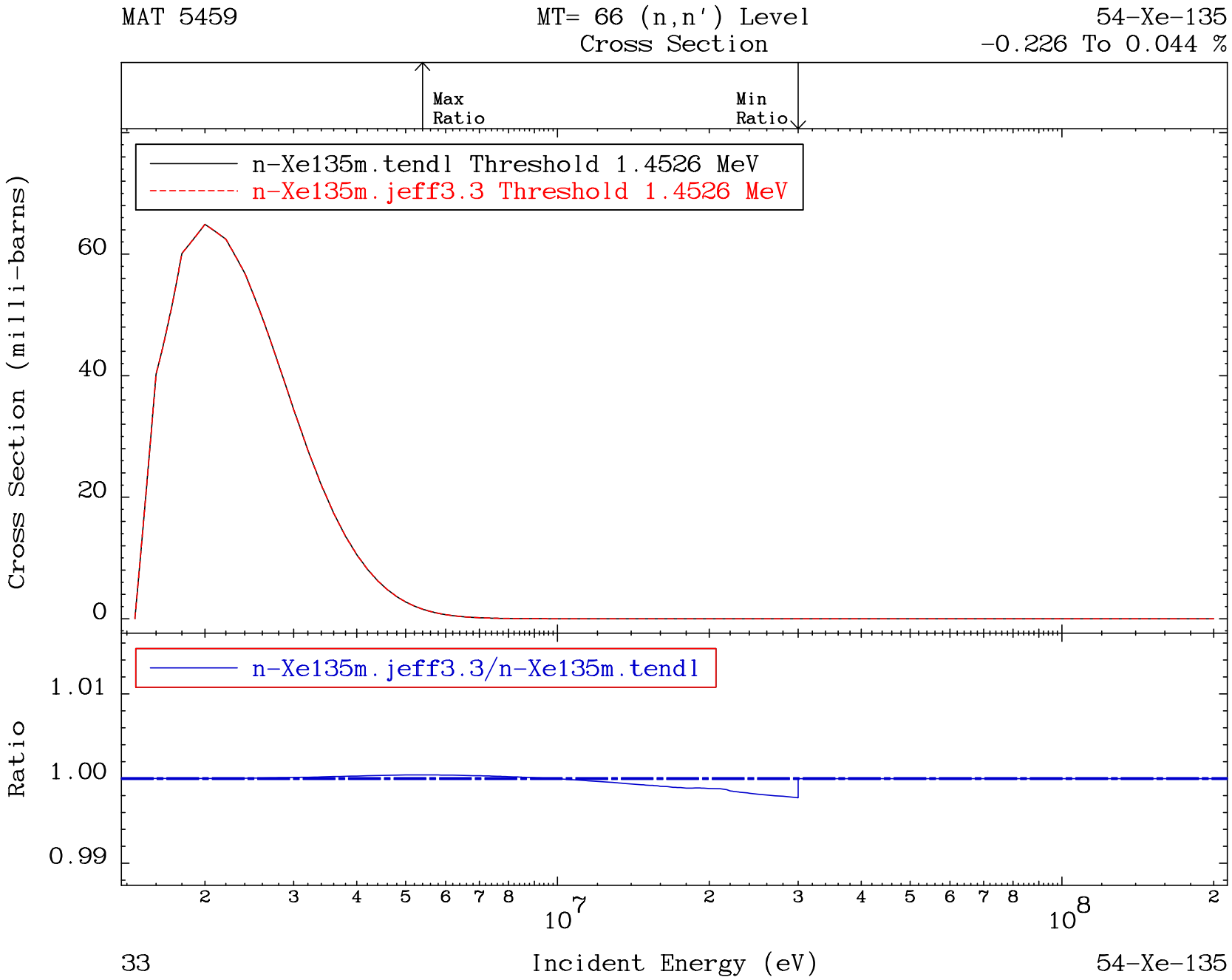

MAT 5459
MT= 61 (n,n') Level
Cross Section
54-Xe-135
-0.226 To 0.050 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.2642 MeV
n-Xe135m.jeff3.3 Threshold 1.2642 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
54-Xe-135

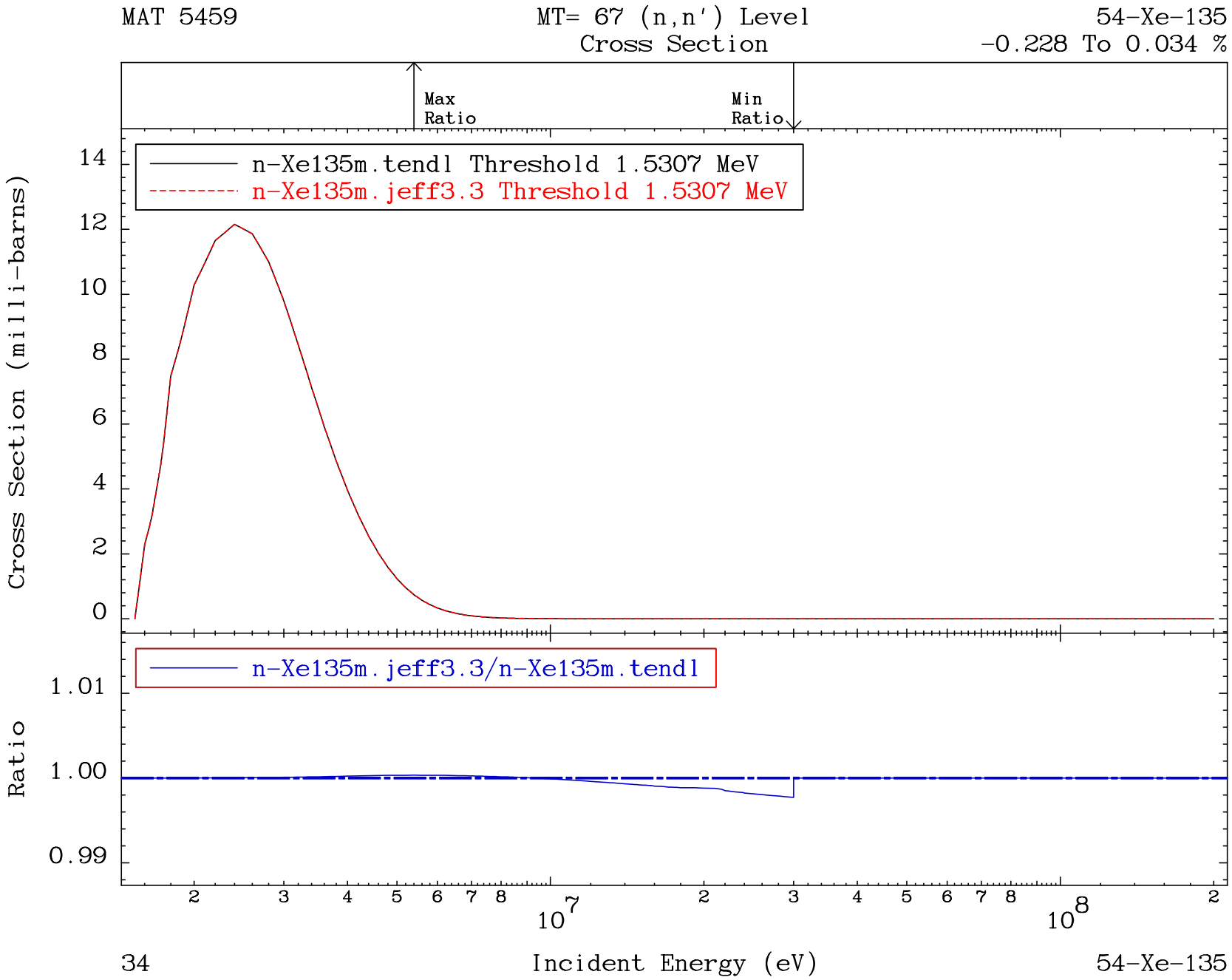

MAT 5459
MT= 62 (n,n') Level
Cross Section
54-Xe-135
-0.228 To 0.035 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.2741 MeV
n-Xe135m.jeff3.3 Threshold 1.2741 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
54-Xe-135

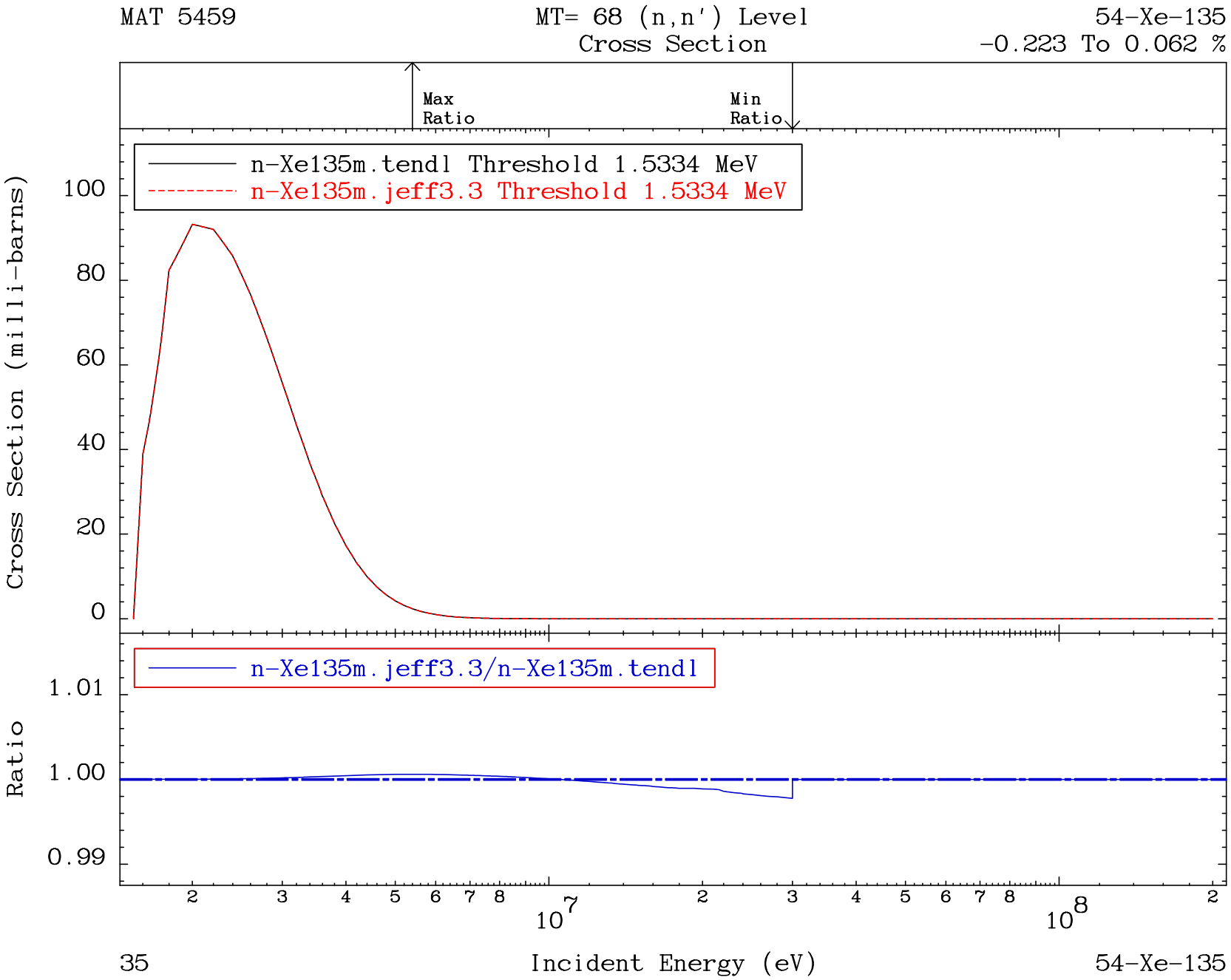

MAT 5459
MT= 63 (n,n') Level
Cross Section
54-Xe-135
-0.224 To 0.057 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.3331 MeV
n-Xe135m.jeff3.3 Threshold 1.3331 MeV
Cross Section (milli-barns)
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
30
Incident Energy (eV)
54-Xe-135

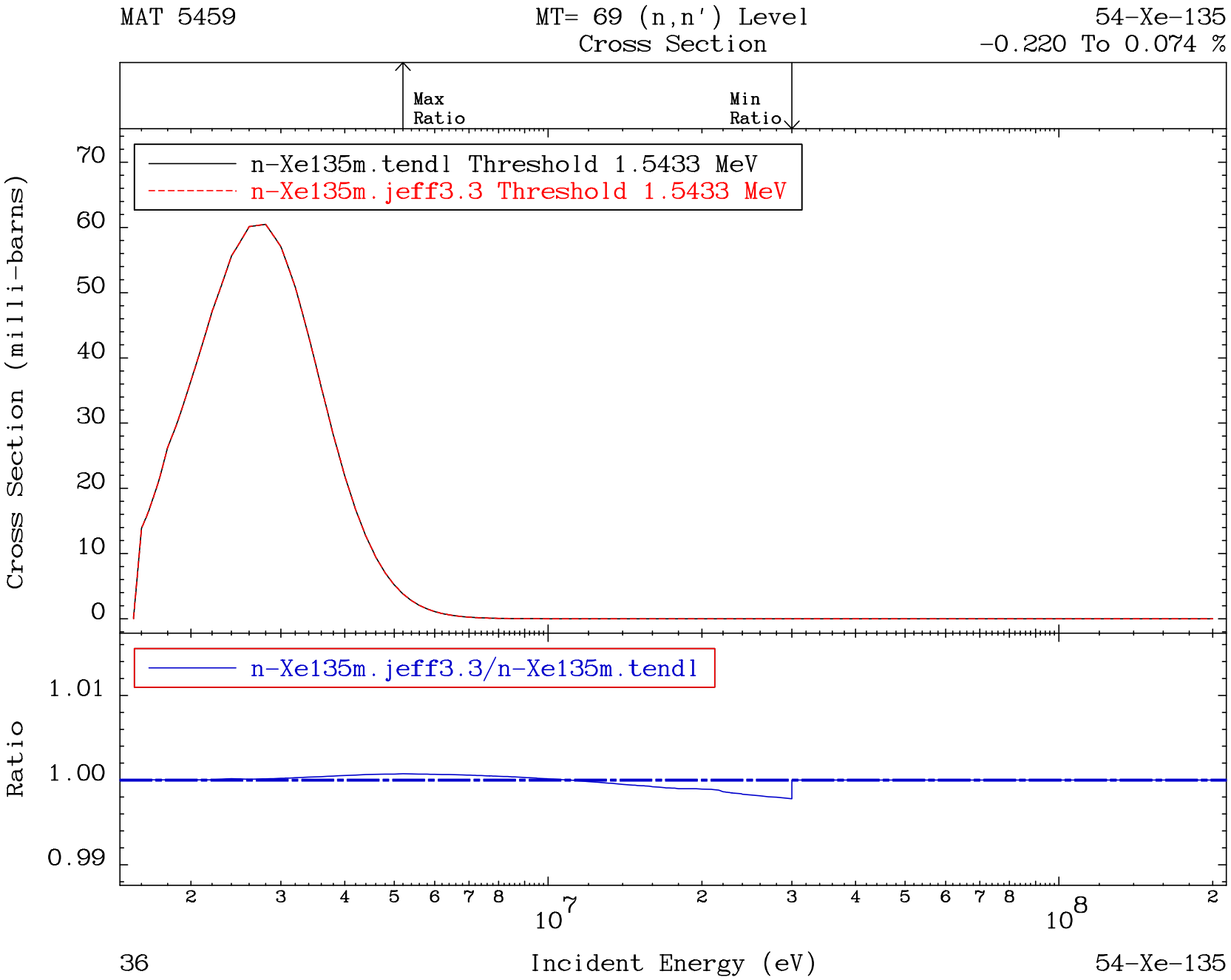

MAT 5459
MT= 64 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.041 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.3781 MeV
n-Xe135m.jeff3.3 Threshold 1.3781 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
54-Xe-135

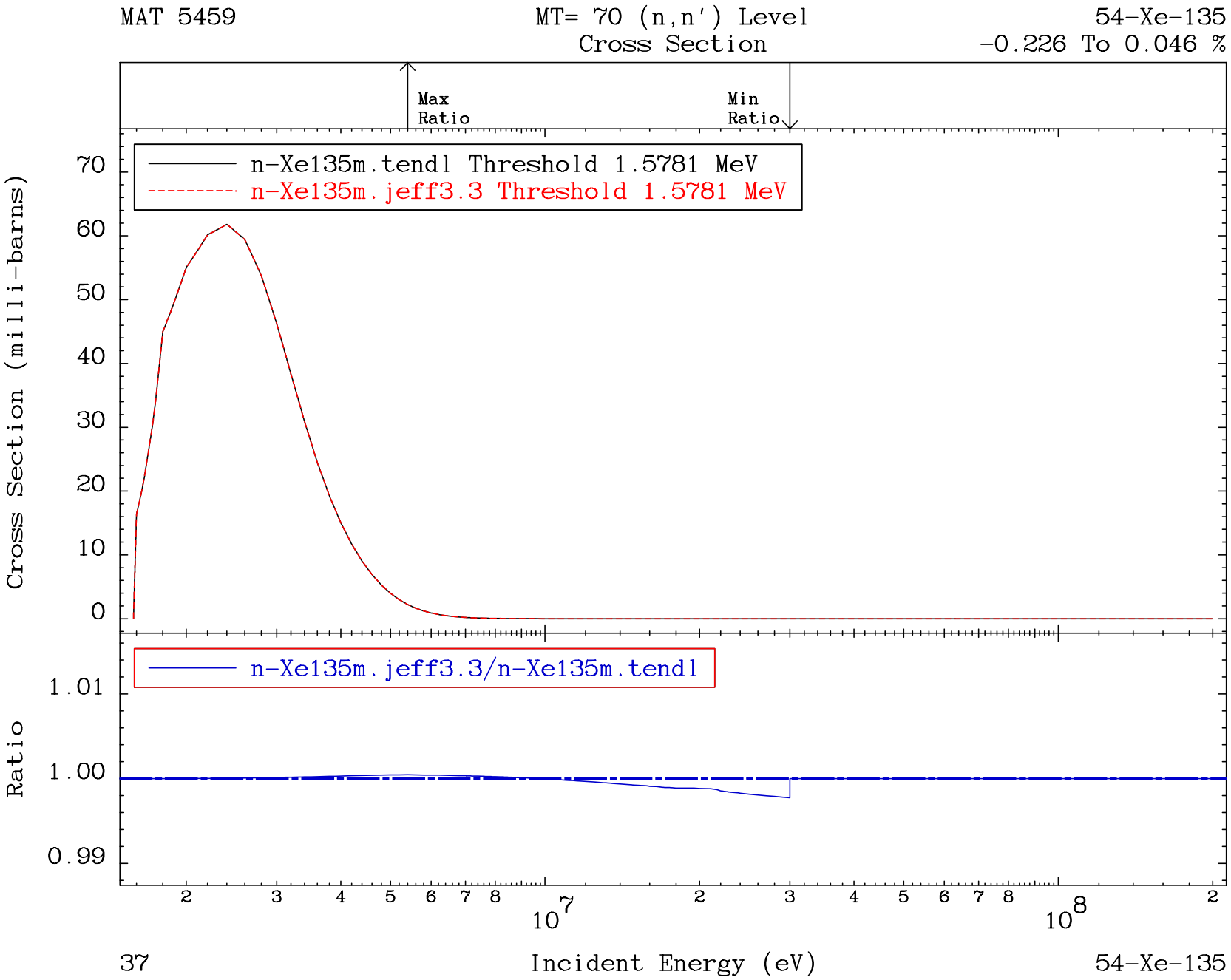

MAT 5459
MT= 65 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.039 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.4112 MeV
n-Xe135m.jeff3.3 Threshold 1.4112 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
54-Xe-135

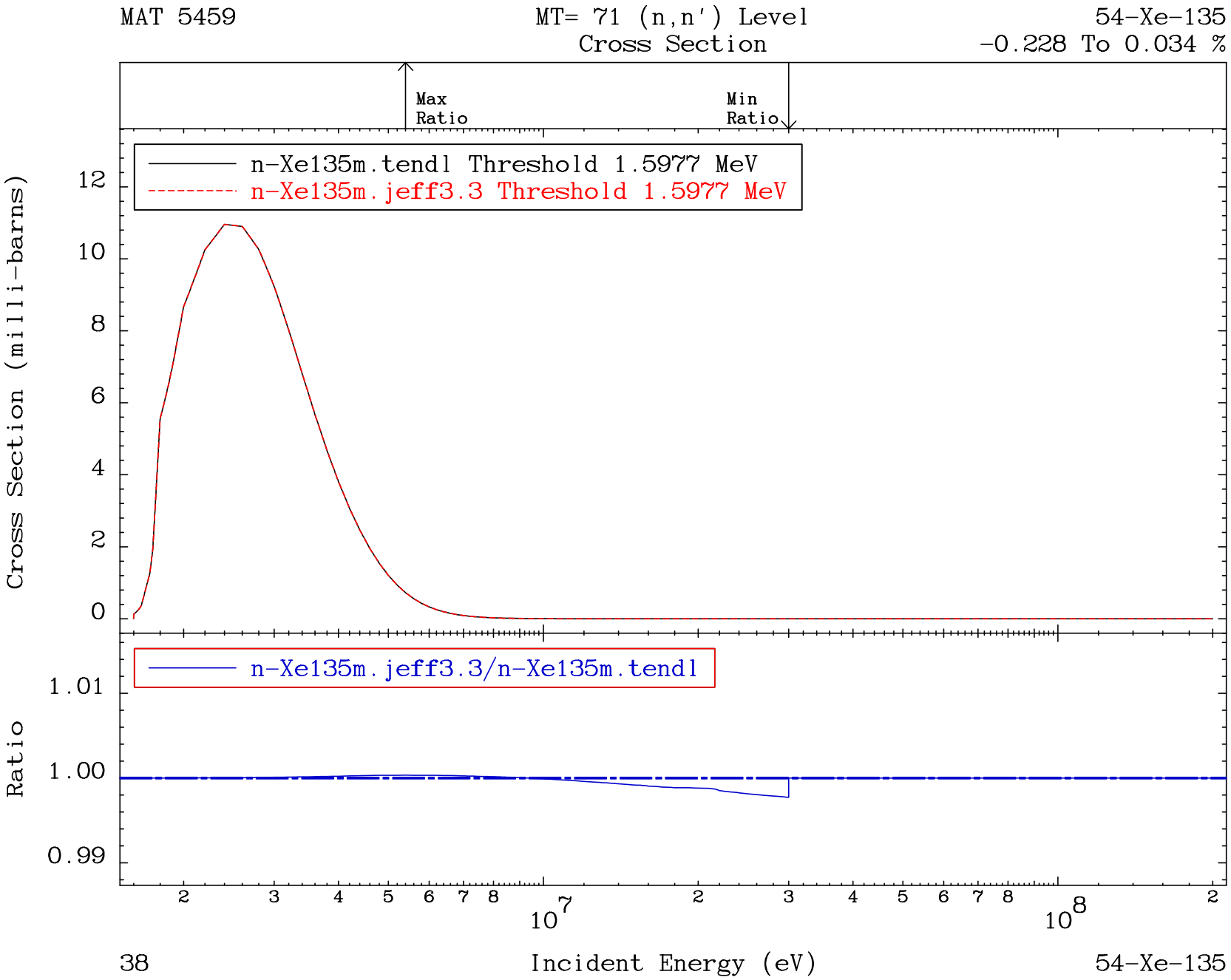

MAT 5459
MT= 66 (n,n') Level
Cross Section
54-Xe-135
-0.226 To 0.044 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.4526 MeV
n-Xe135m.jeff3.3 Threshold 1.4526 MeV
Cross Section (milli-barns)
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
54-Xe-135

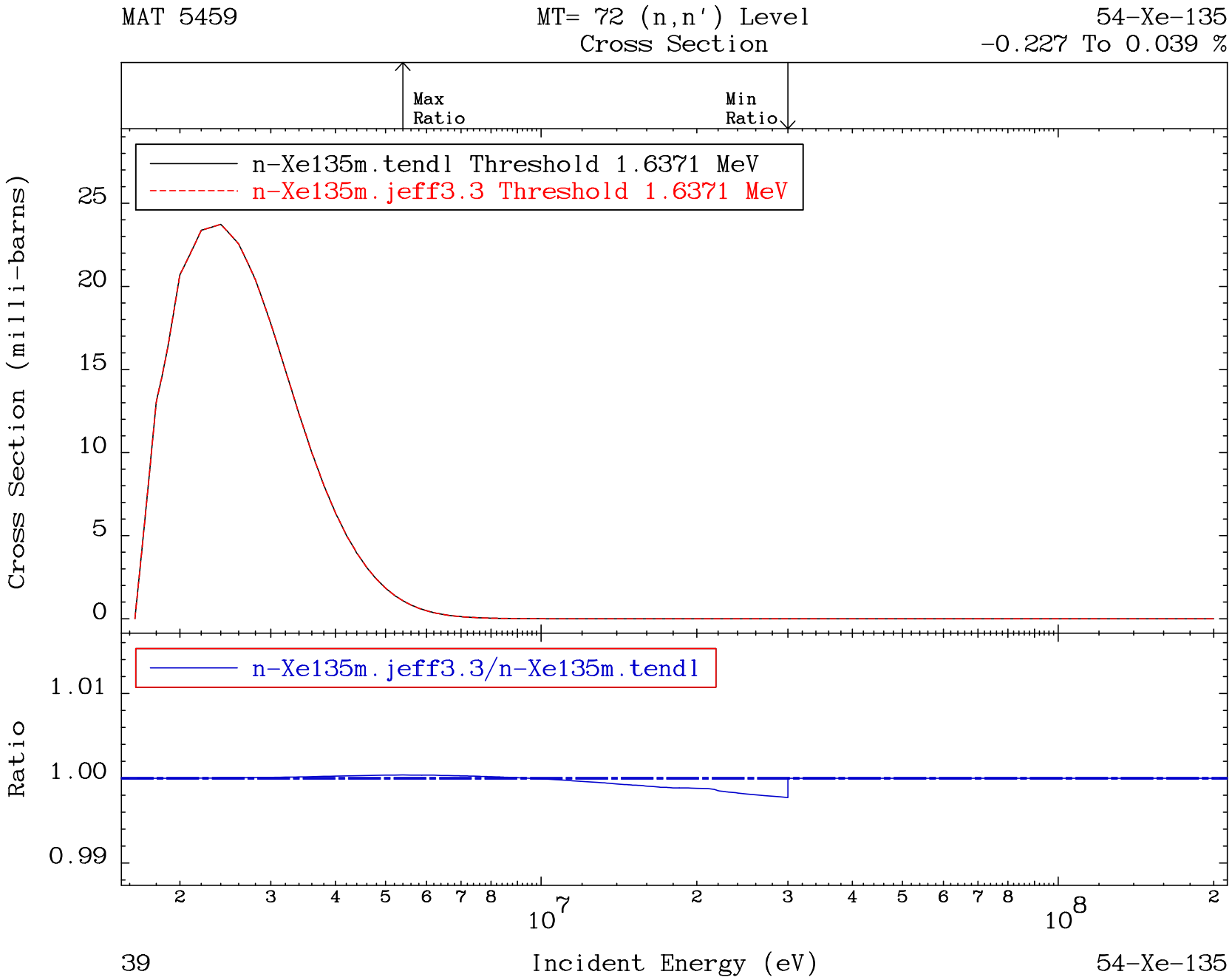

MAT 5459
MT= 67 (n,n') Level
Cross Section
54-Xe-135
-0.228 To 0.034 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.5307 MeV
n-Xe135m.jeff3.3 Threshold 1.5307 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
34
Incident Energy (eV)
54-Xe-135

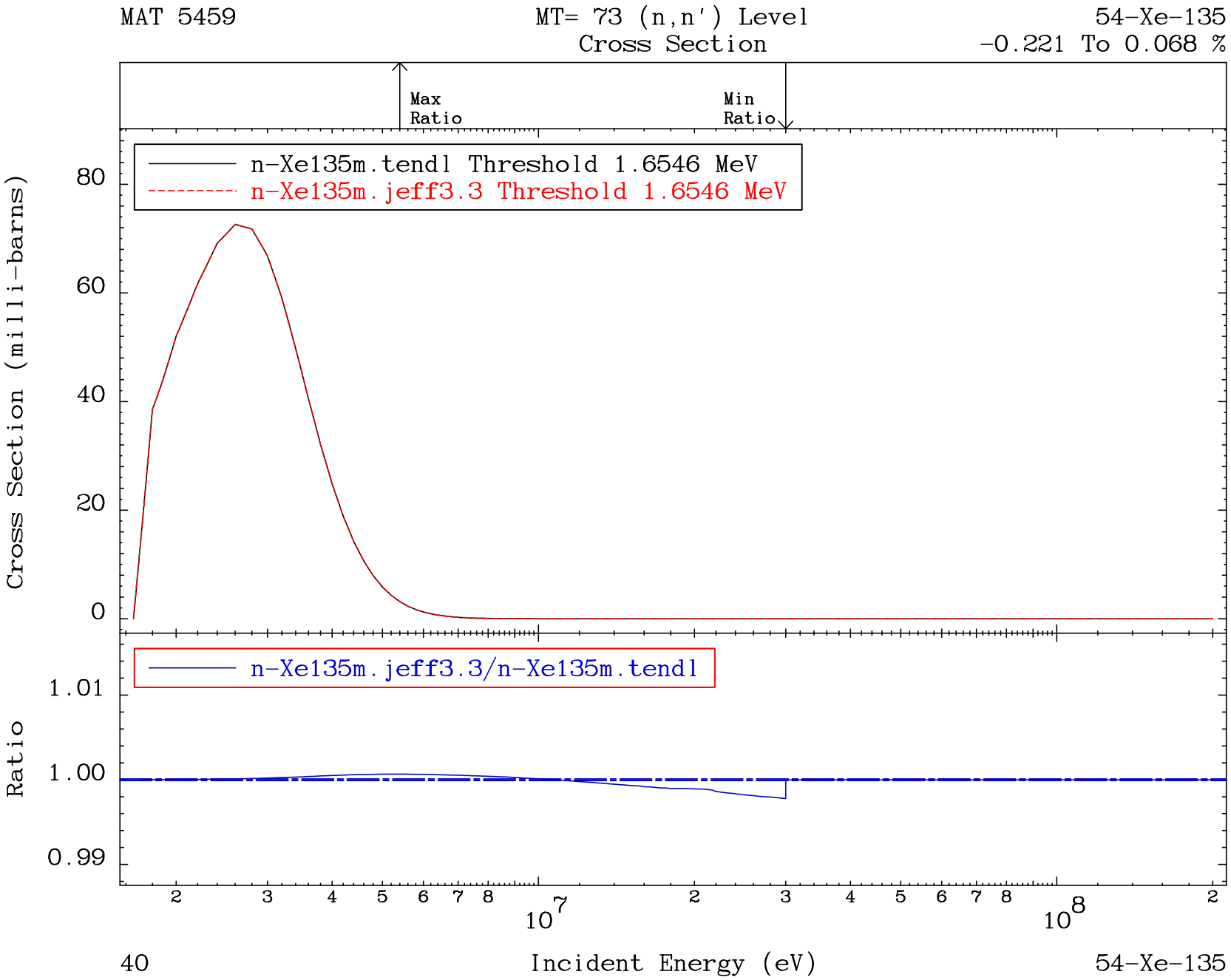

MAT 5459
MT= 68 (n,n') Level
Cross Section
54-Xe-135
-0.223 To 0.062 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 1.5334 MeV
n-Xe135m.jeff3.3 Threshold 1.5334 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
54-Xe-135

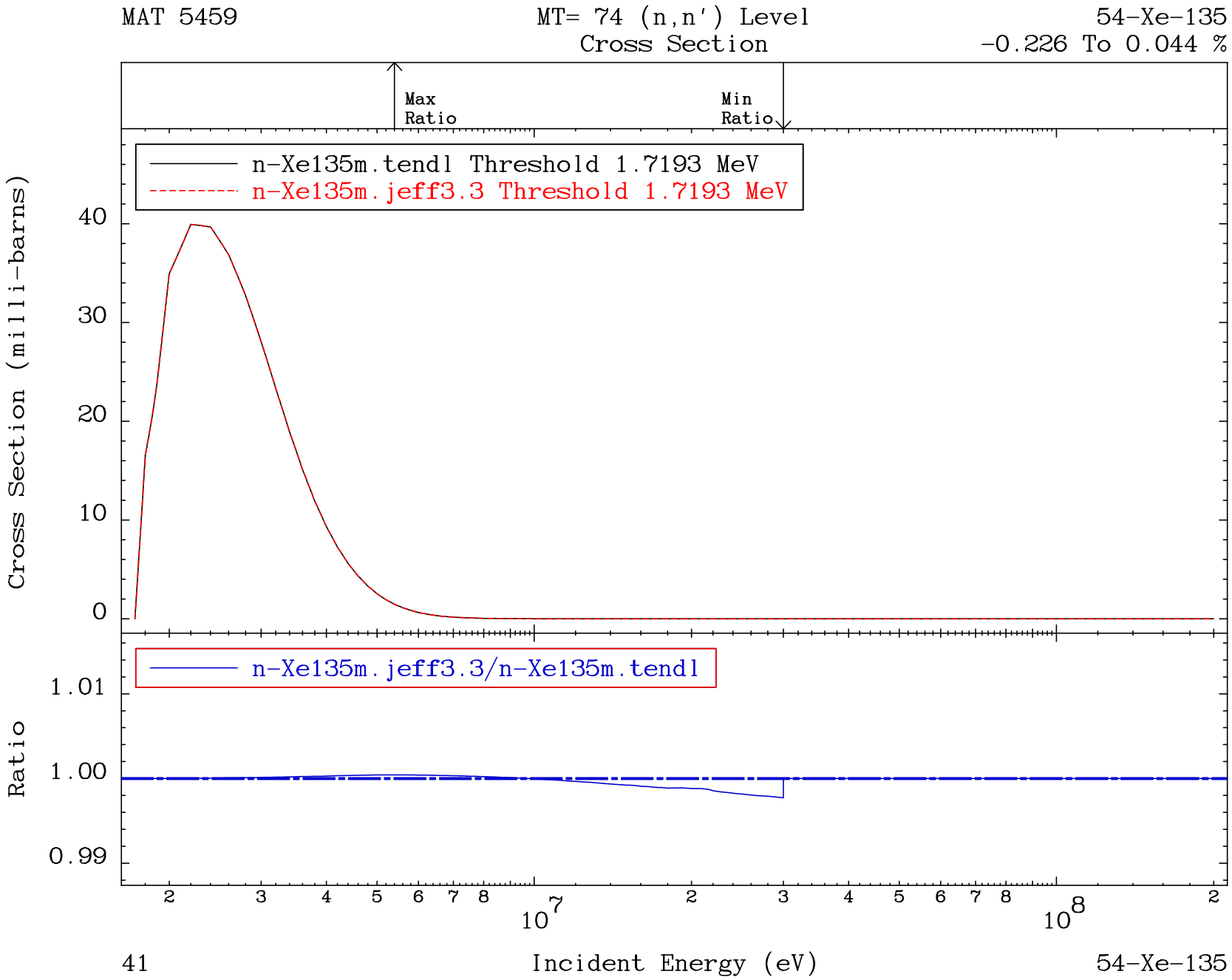

MAT 5459
MT= 69 (n,n') Level
Cross Section
54-Xe-135
-0.220 To 0.074 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.5433 MeV
n-Xe135m.jeff3.3 Threshold 1.5433 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
36
Incident Energy (eV)
54-Xe-135

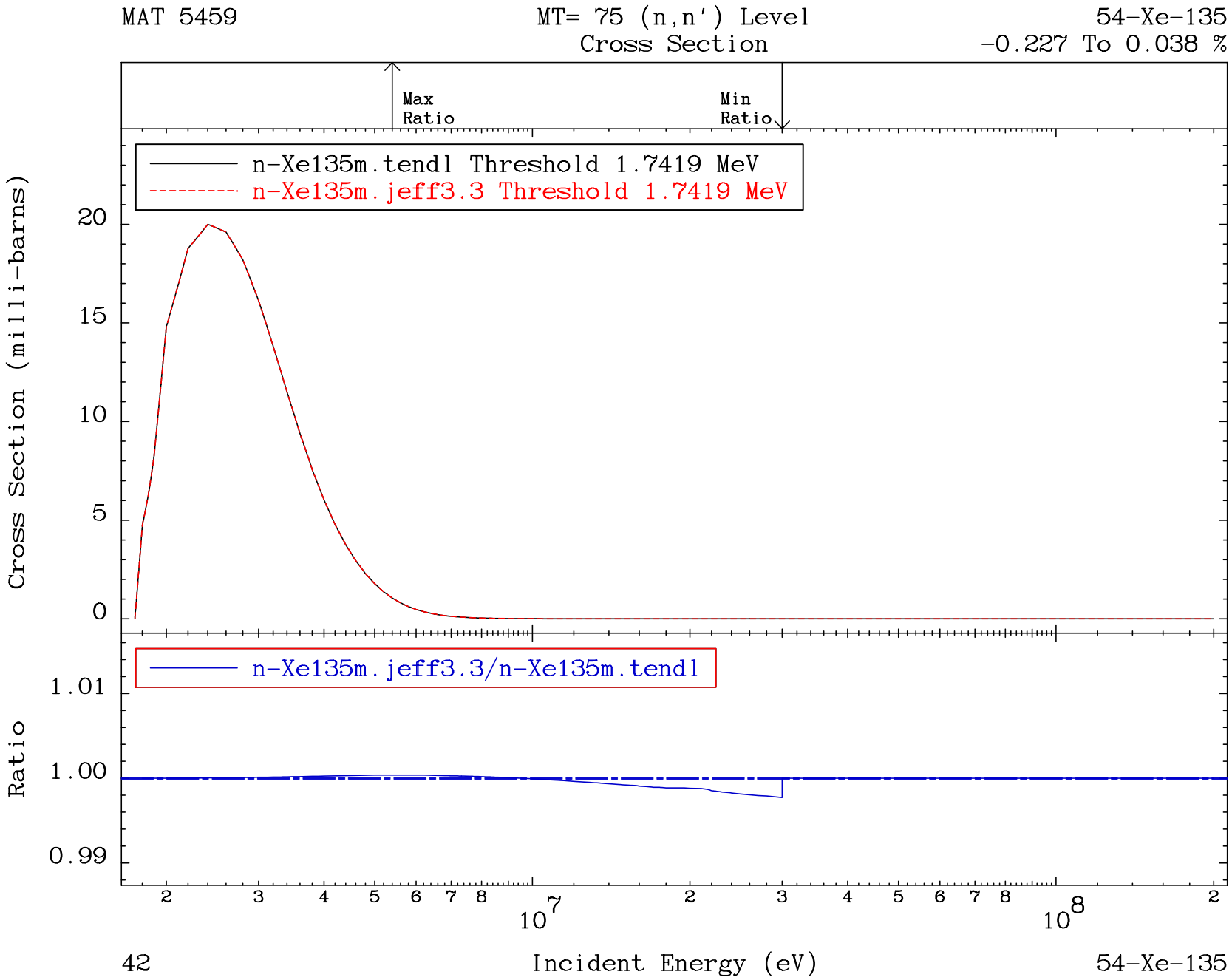

MAT 5459
MT= 70 (n,n') Level
Cross Section
54-Xe-135
-0.226 To 0.046 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.5781 MeV
n-Xe135m.jeff3.3 Threshold 1.5781 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
54-Xe-135

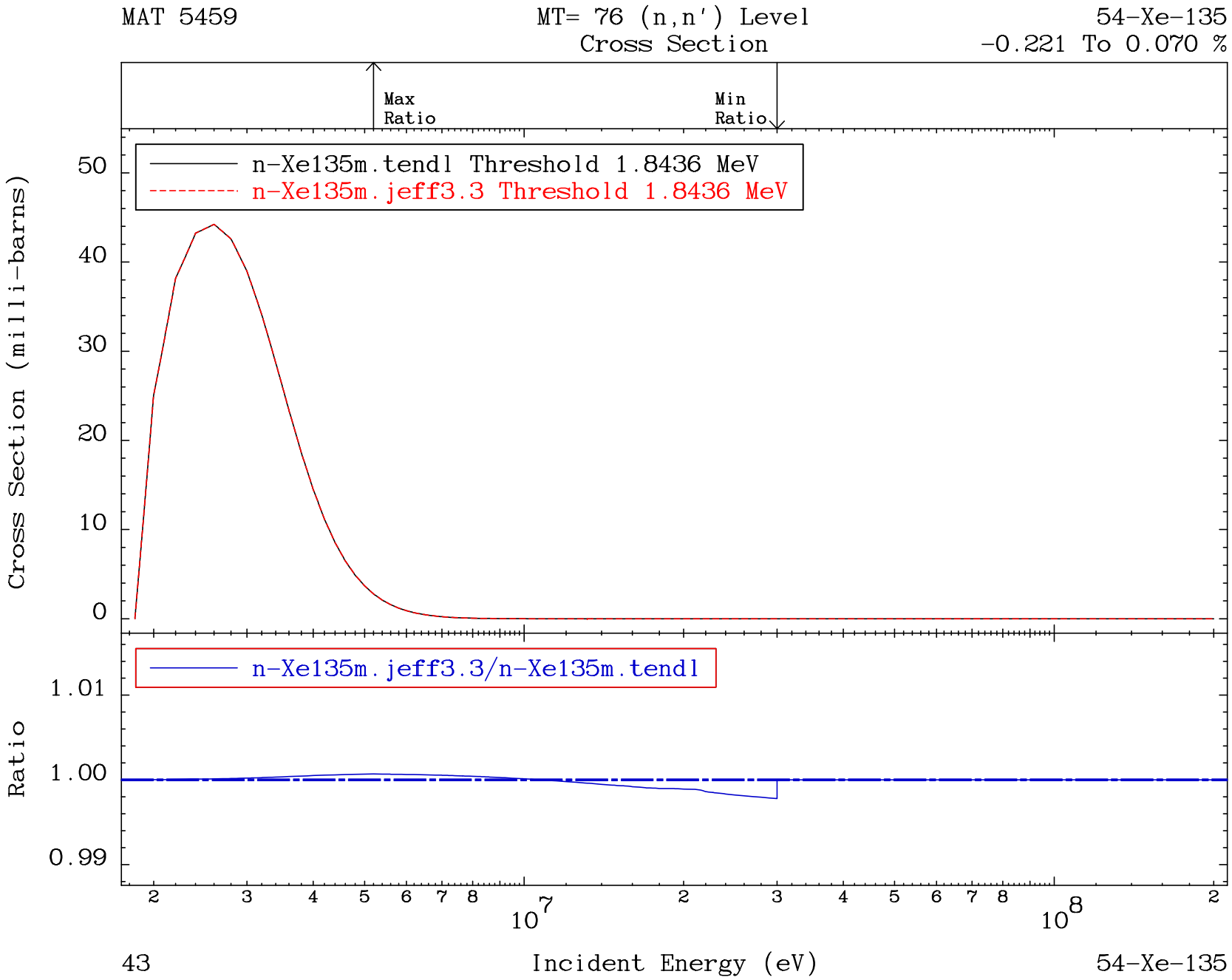

MAT 5459
MT= 71 (n,n') Level
Cross Section
54-Xe-135
-0.228 To 0.034 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.5977 MeV
n-Xe135m.jeff3.3 Threshold 1.5977 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
38
Incident Energy (eV)
54-Xe-135

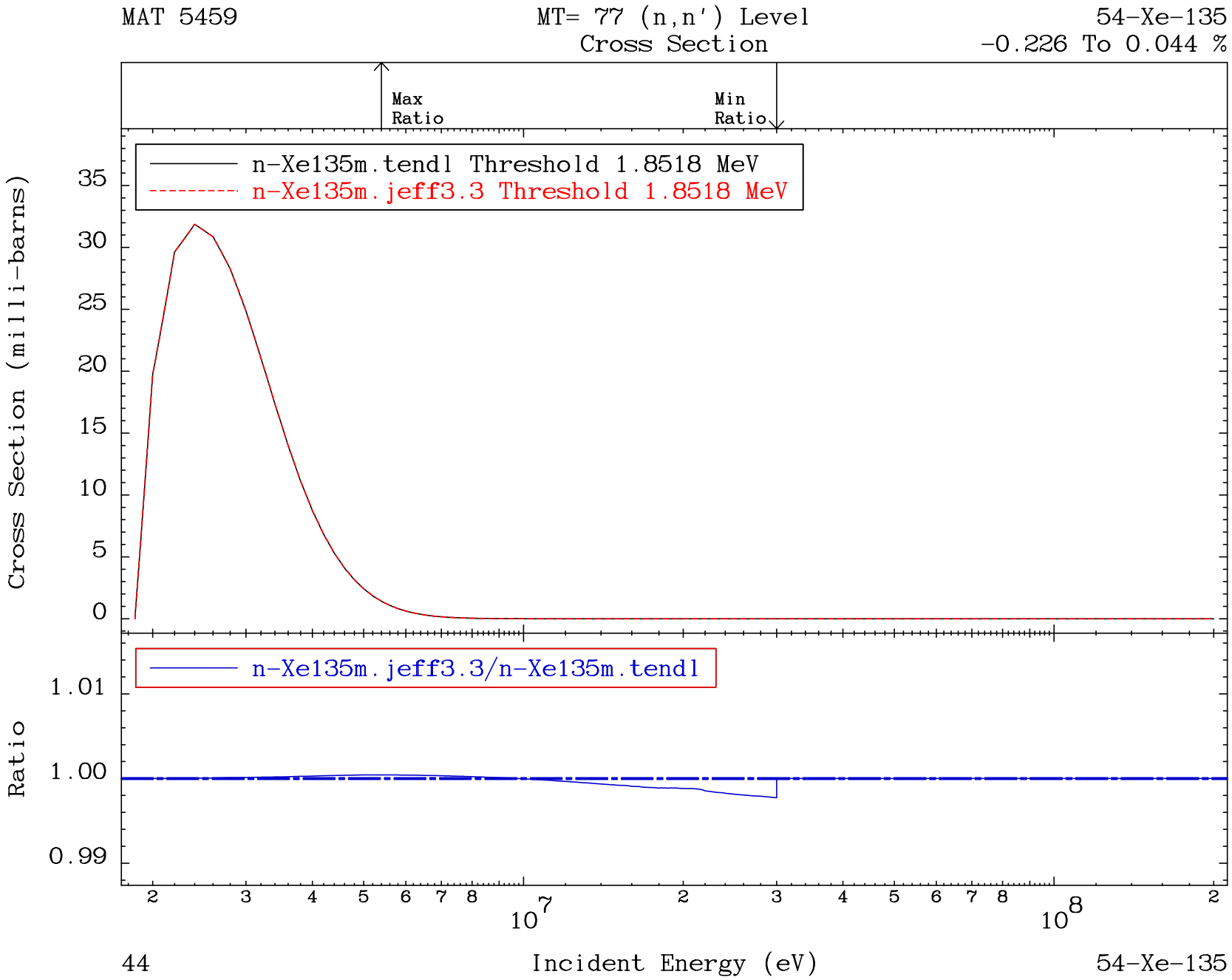

MAT 5459
MT= 72 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.039 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.6371 MeV
n-Xe135m.jeff3.3 Threshold 1.6371 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
39
Incident Energy (eV)
54-Xe-135

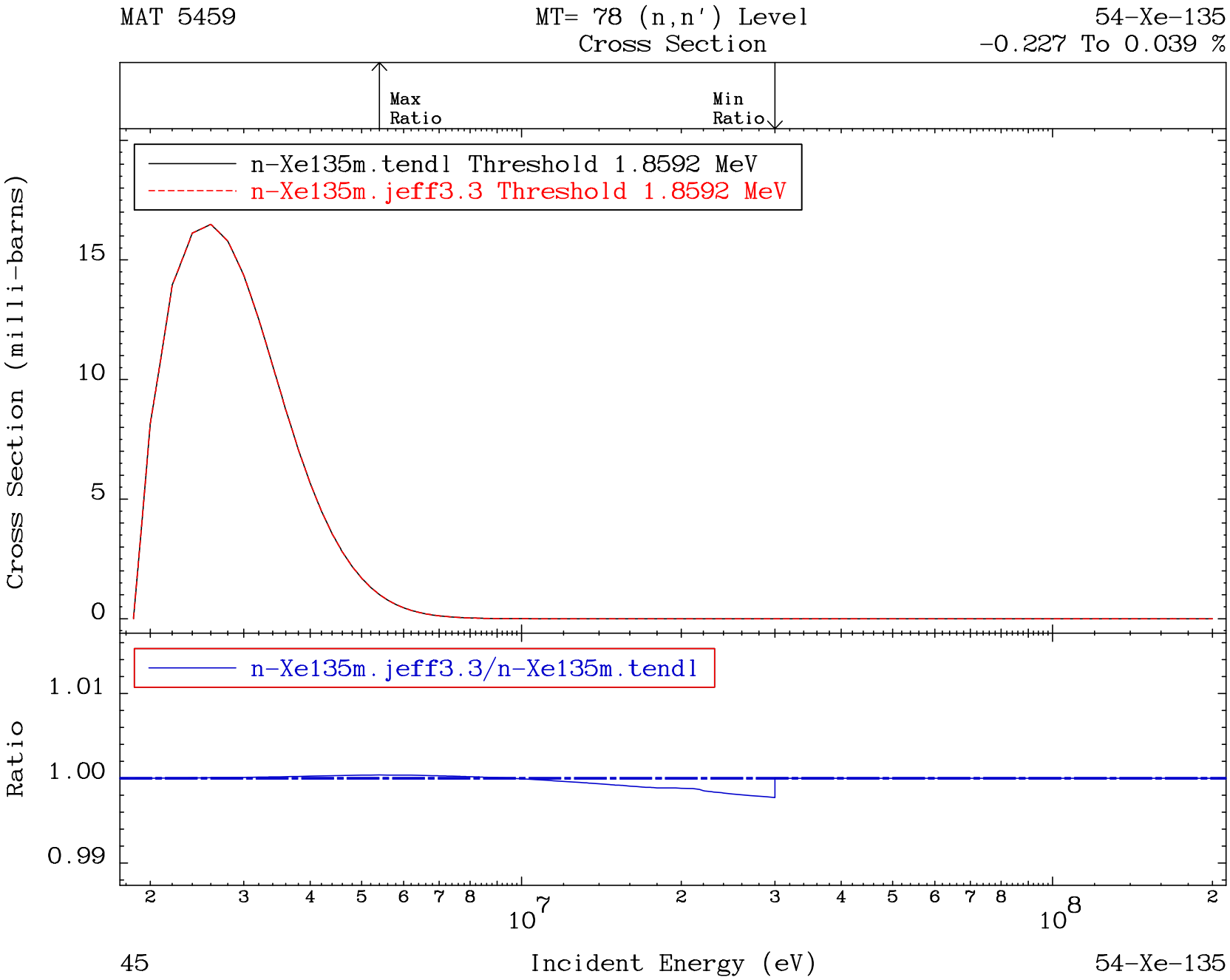

MAT 5459
MT= 73 (n,n') Level
Cross Section
54-Xe-135
-0.221 To 0.068 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.6546 MeV
n-Xe135m.jeff3.3 Threshold 1.6546 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
40
Incident Energy (eV)
54-Xe-135

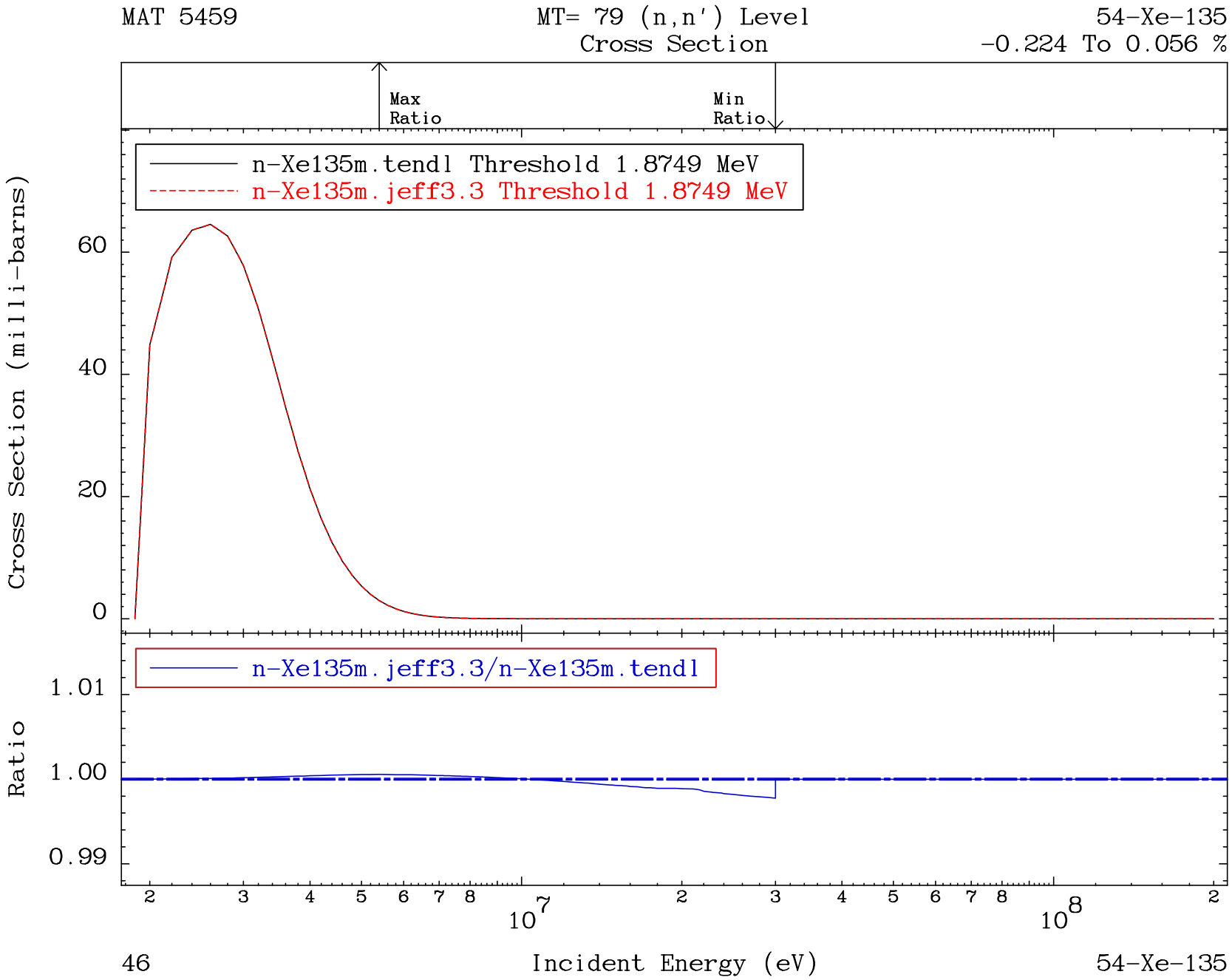

MAT 5459
MT= 74 (n,n') Level
Cross Section
54-Xe-135
-0.226 To 0.044 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.7193 MeV
n-Xe135m.jeff3.3 Threshold 1.7193 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
41
Incident Energy (eV)
54-Xe-135

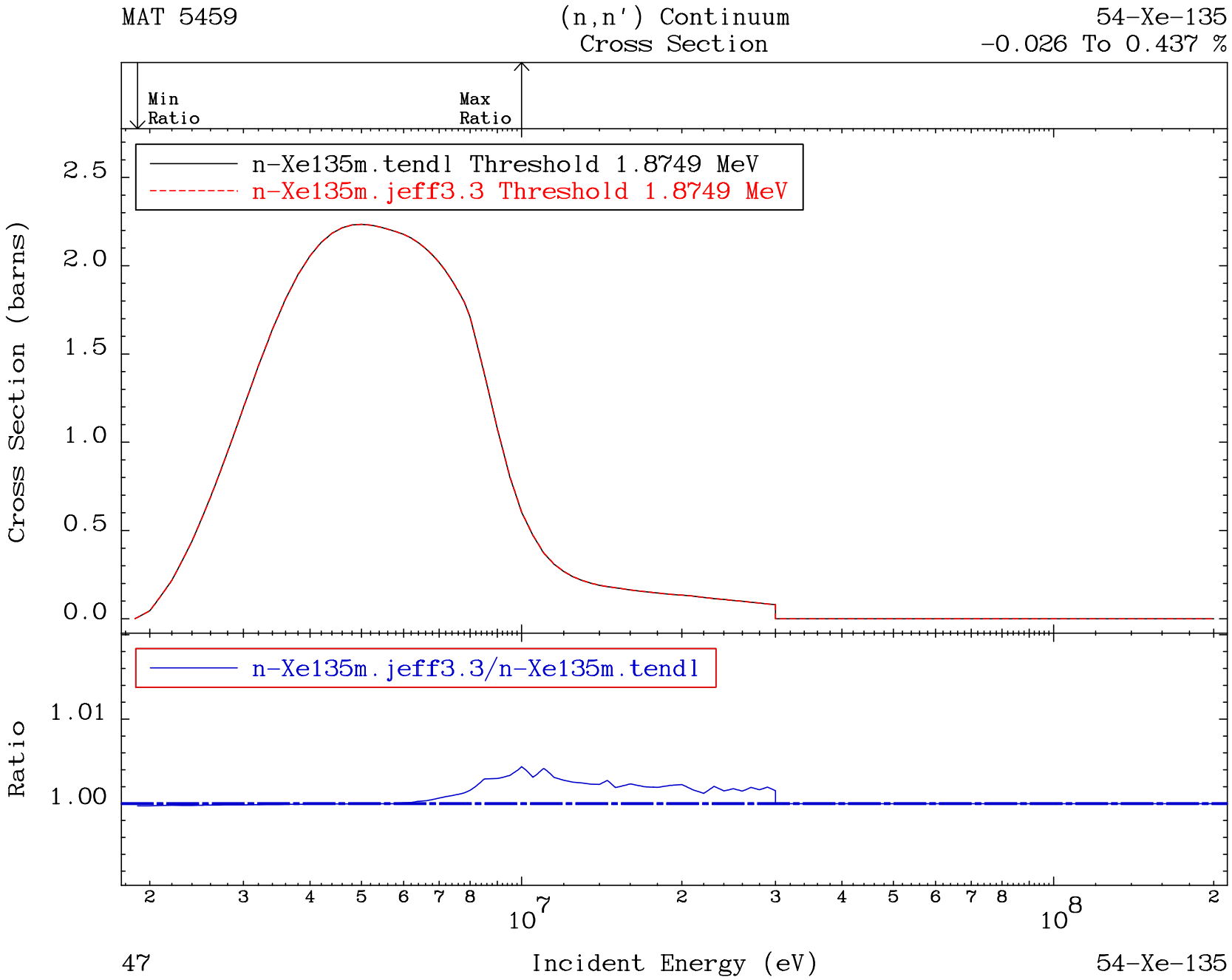

MAT 5459
MT= 75 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.038 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.7419 MeV
n-Xe135m.jeff3.3 Threshold 1.7419 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
42
Incident Energy (eV)
54-Xe-135

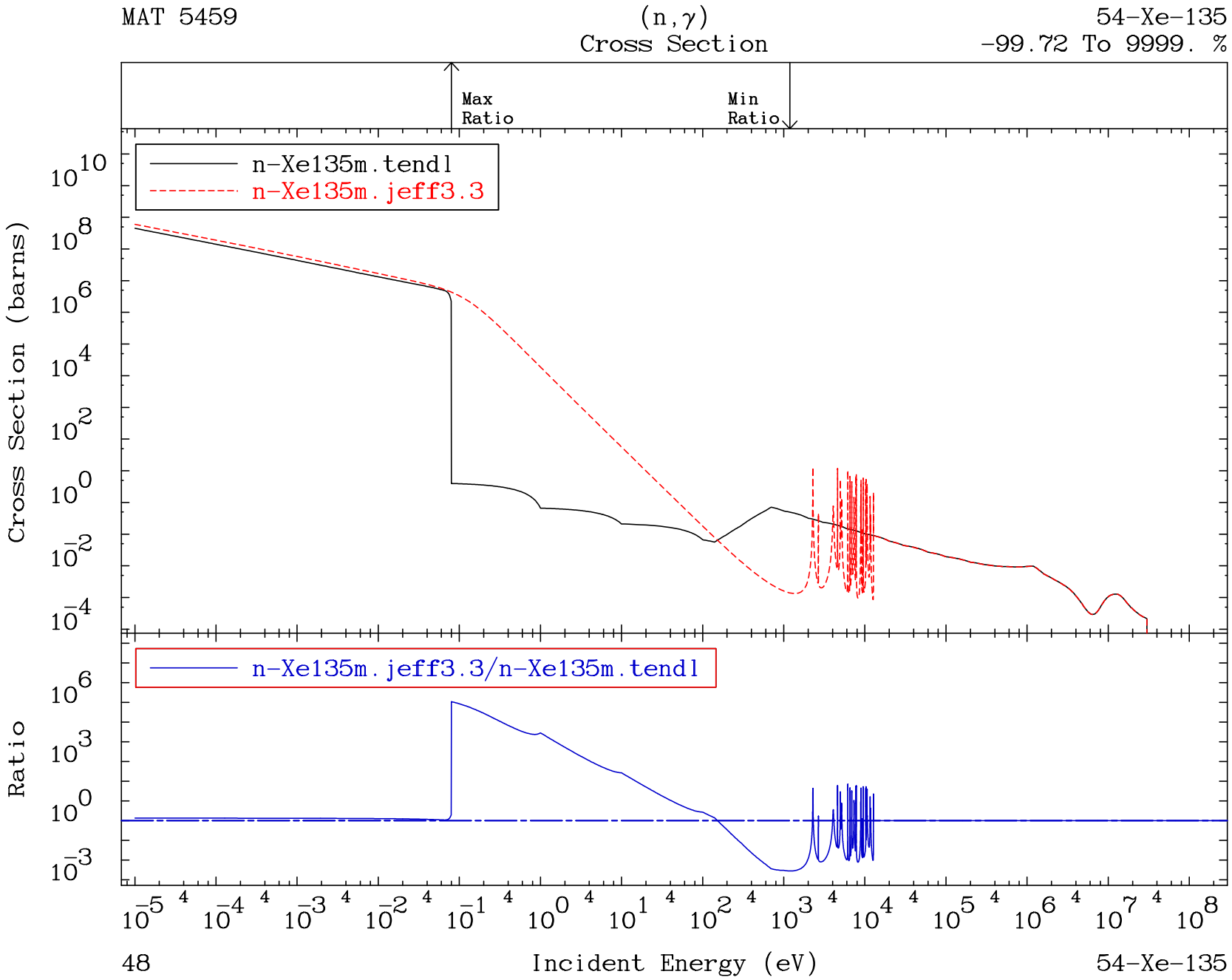

MAT 5459
MT= 76 (n,n') Level
Cross Section
54-Xe-135
-0.221 To 0.070 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.8436 MeV
n-Xe135m.jeff3.3 Threshold 1.8436 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
54-Xe-135

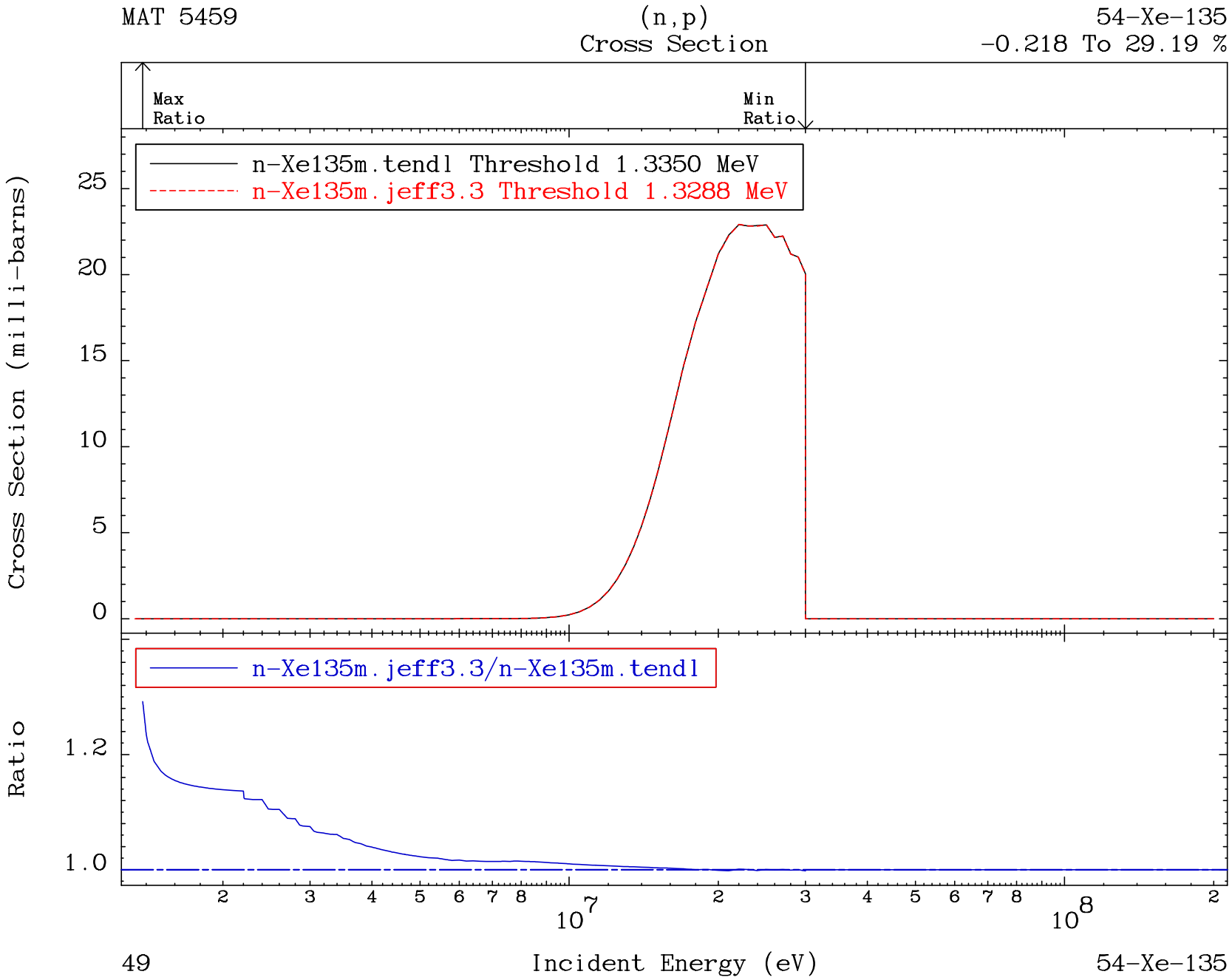

MAT 5459
MT= 77 (n,n') Level
Cross Section
54-Xe-135
-0.226 To 0.044 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.8518 MeV
n-Xe135m.jeff3.3 Threshold 1.8518 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
54-Xe-135

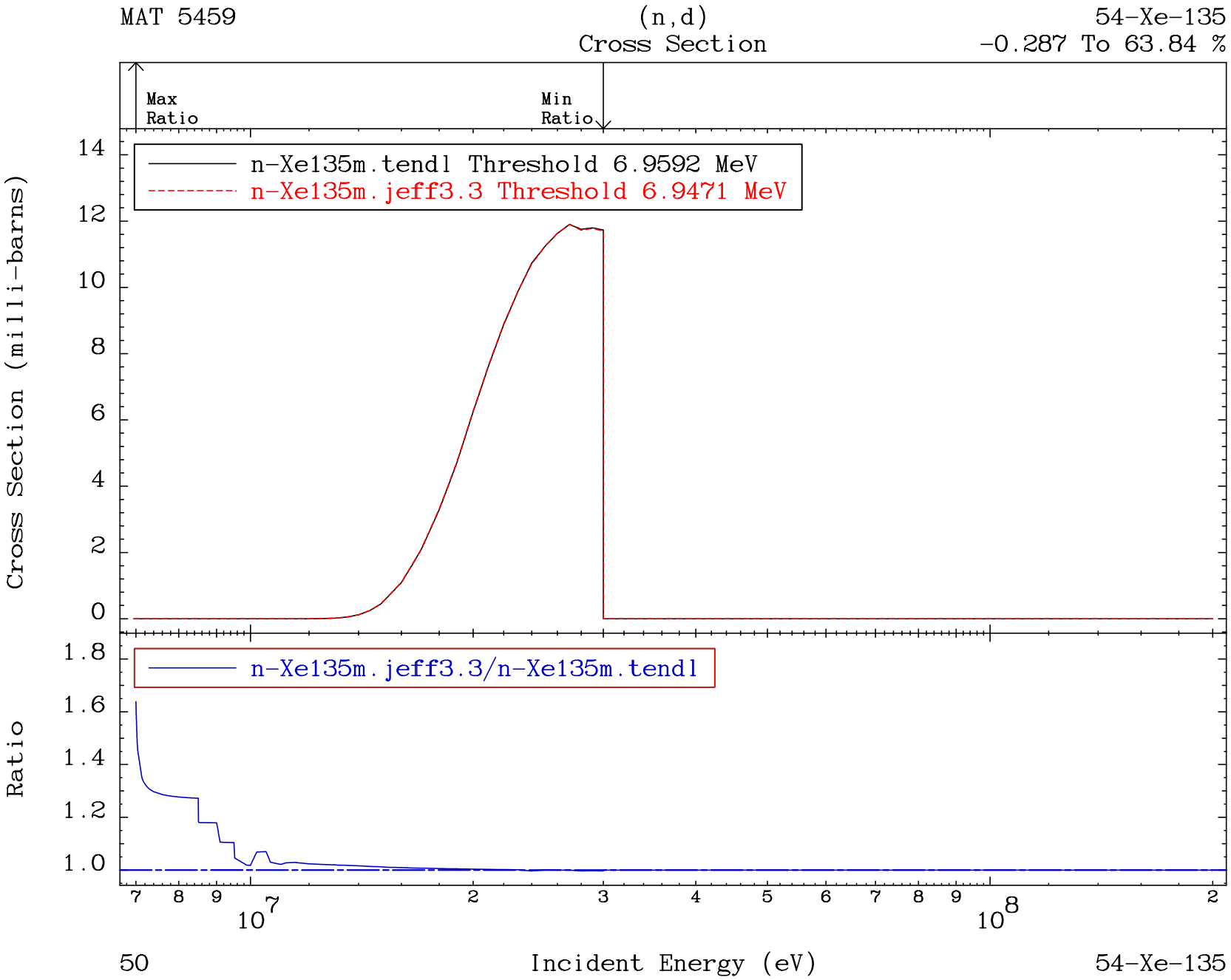

MAT 5459
MT= 78 (n,n') Level
Cross Section
54-Xe-135
-0.227 To 0.039 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.8592 MeV
n-Xe135m.jeff3.3 Threshold 1.8592 MeV
Cross Section (milli-barns)
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
45
Incident Energy (eV)
54-Xe-135

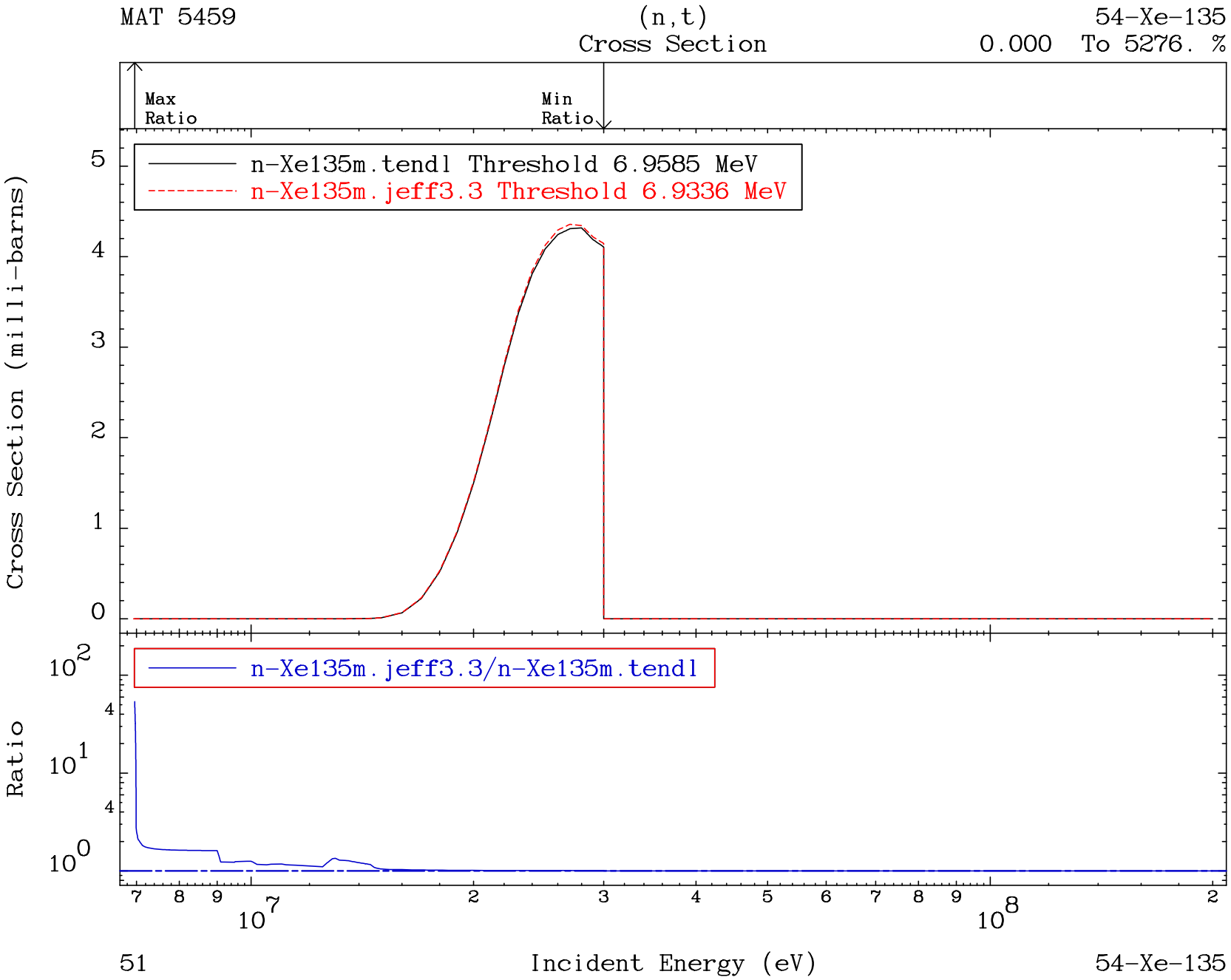

MAT 5459
MT= 79 (n,n') Level
Cross Section
54-Xe-135
-0.224 To 0.056 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 1.8749 MeV
n-Xe135m.jeff3.3 Threshold 1.8749 MeV
Cross Section (milli-barns)
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
46
Incident Energy (eV)
54-Xe-135

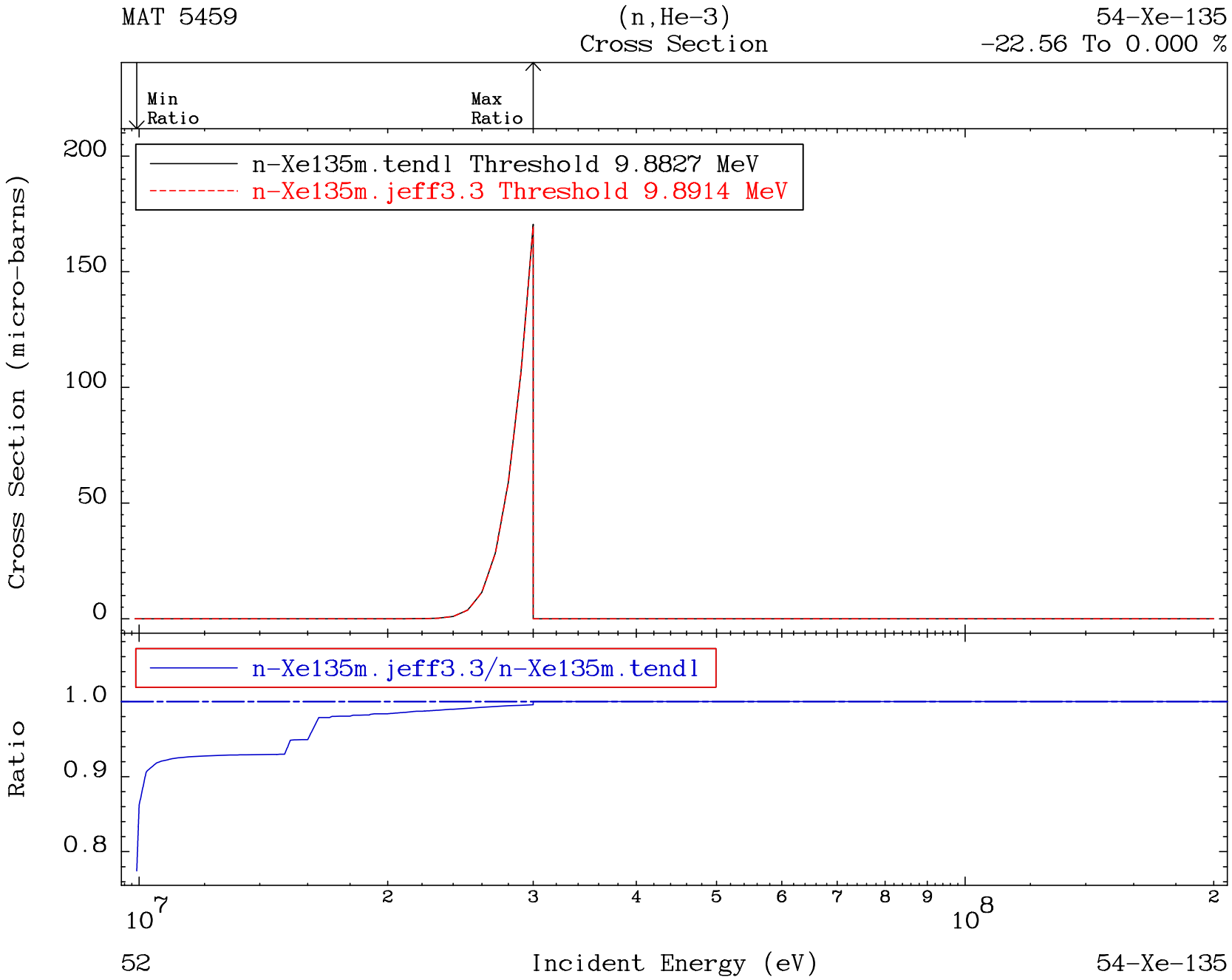

MAT 5459
(n,n') Continuum
Cross Section
54-Xe-135
-0.026 To 0.437 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 1.8749 MeV
n-Xe135m.jeff3.3 Threshold 1.8749 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
54-Xe-135

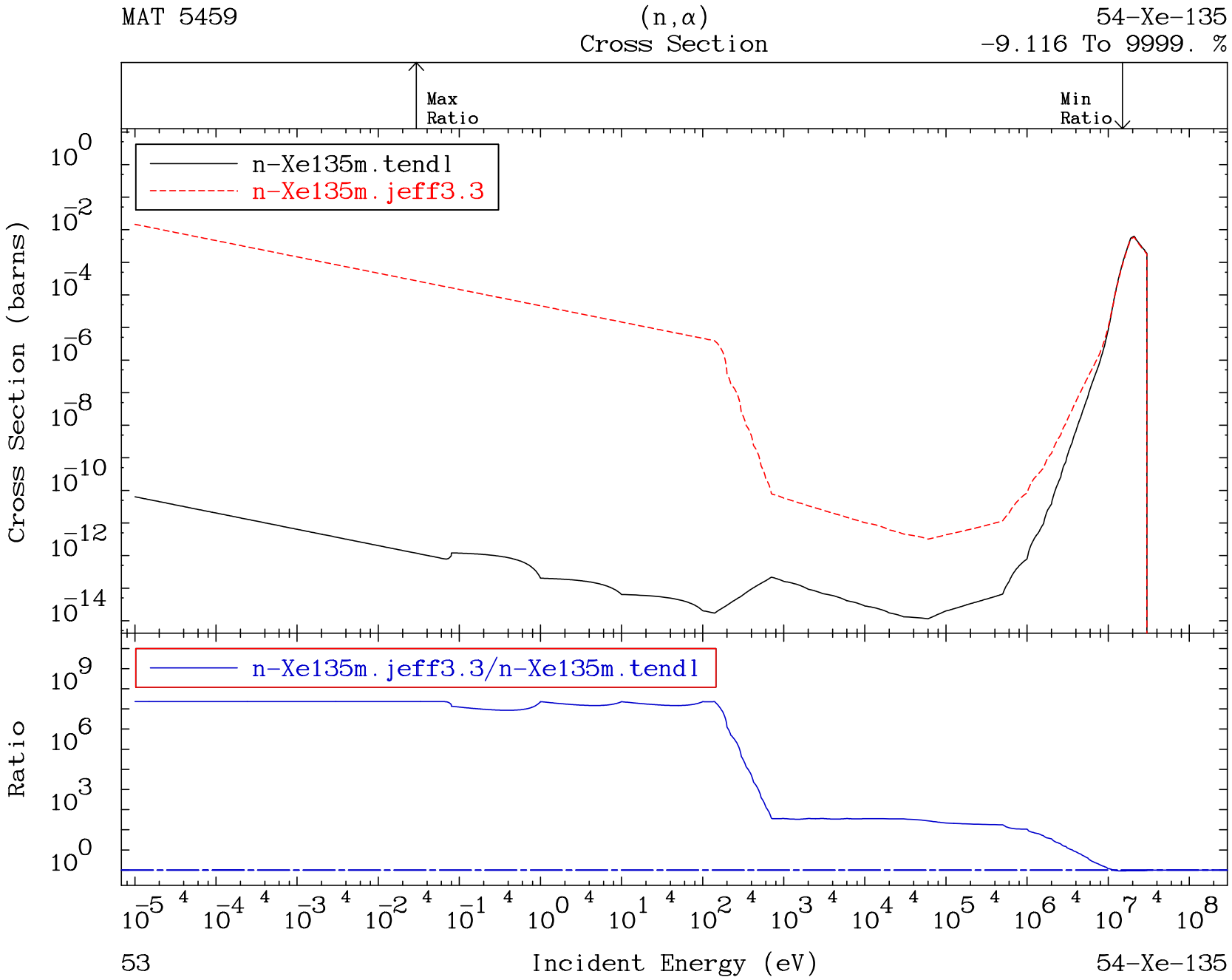

MAT 5459
(n,γ)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
48
54-Xe-135

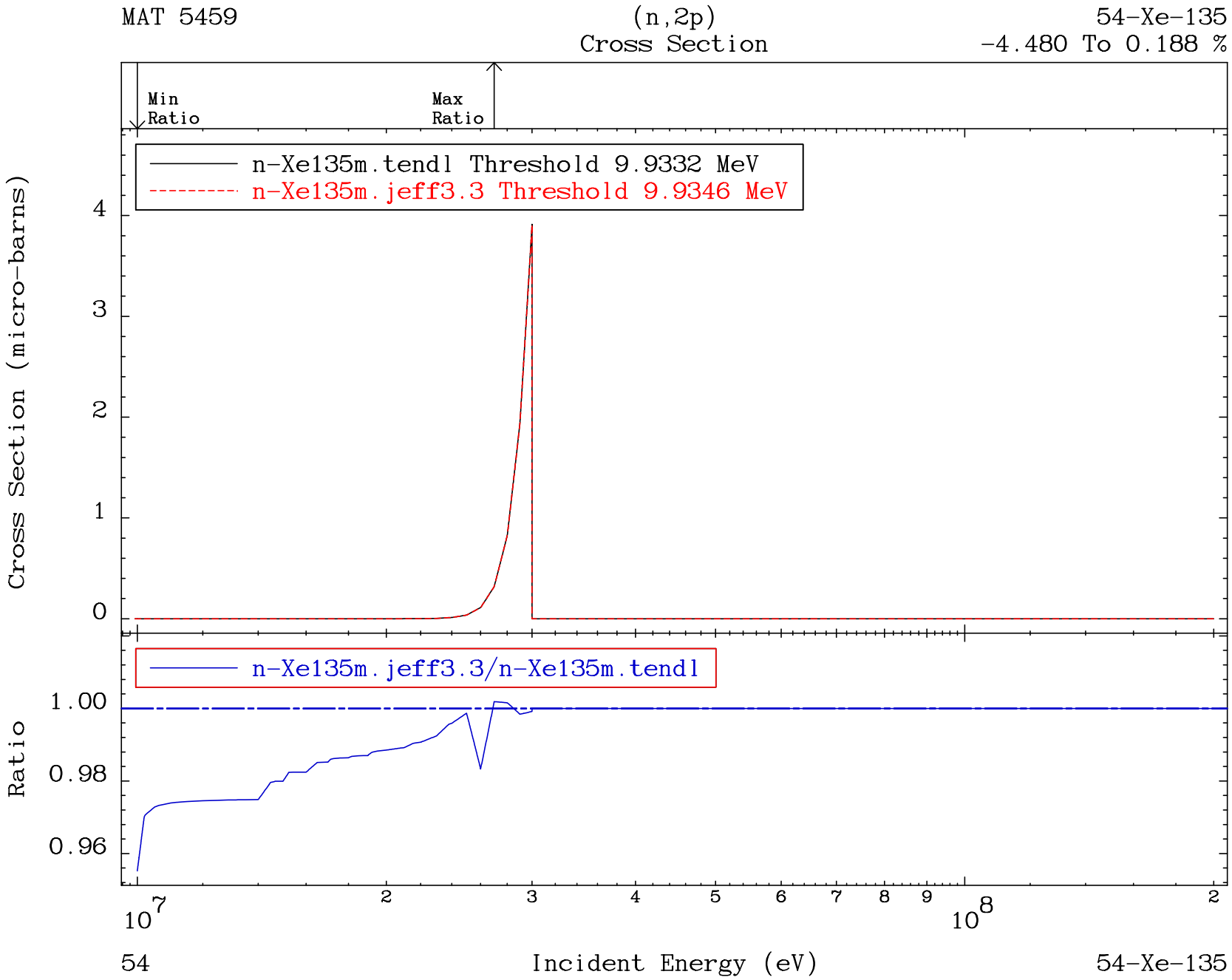

MAT 5459
(n,p)
Cross Section
54-Xe-135
-0.218 To 29.19 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 1.3350 MeV
n-Xe135m.jeff3.3 Threshold 1.3288 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.2
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
54-Xe-135

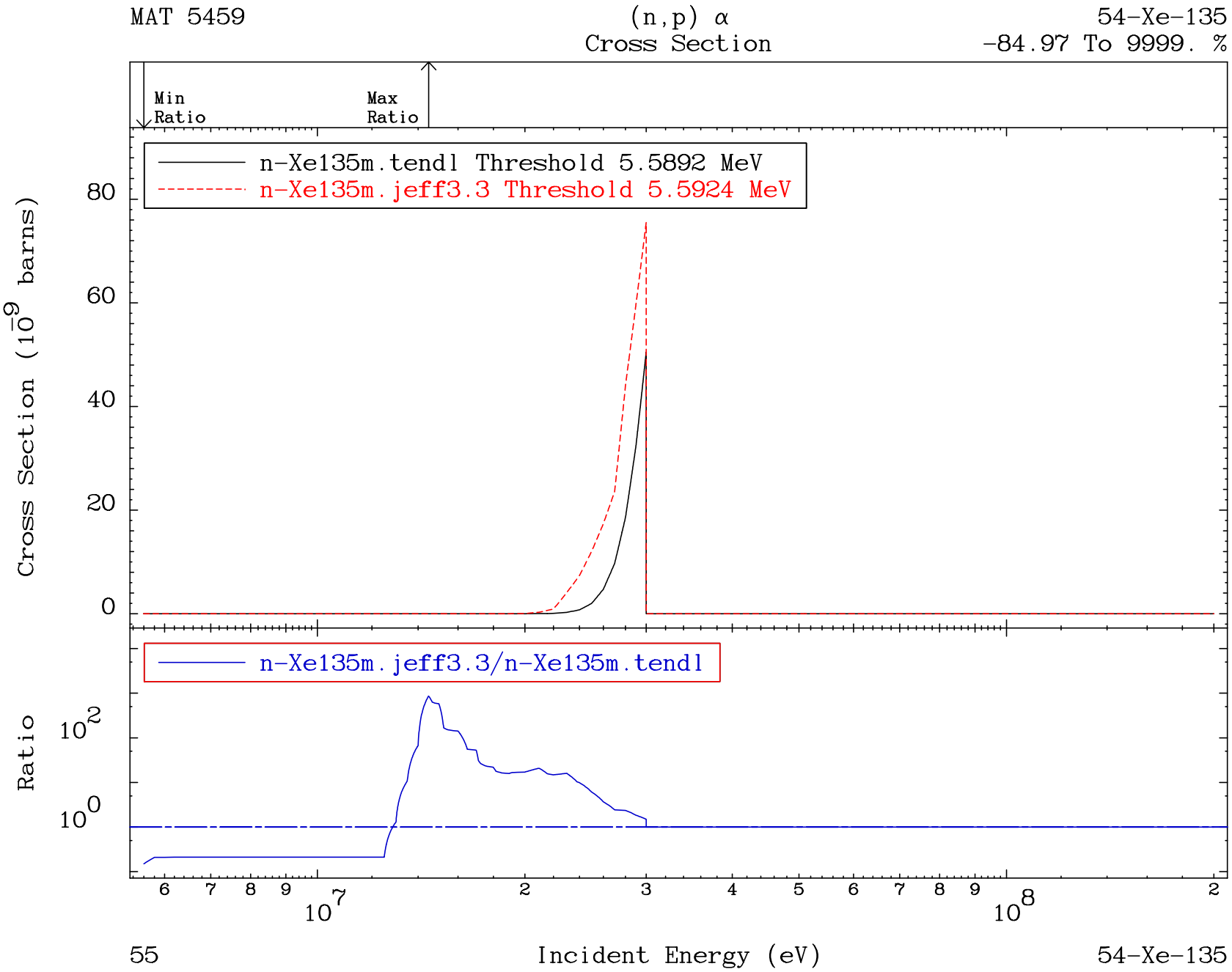

MAT 5459
(n,d)
Cross Section
54-Xe-135
-0.287 To 63.84 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 6.9592 MeV
n-Xe135m.jeff3.3 Threshold 6.9471 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
1.2
1.4
1.6
1.8
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
54-Xe-135

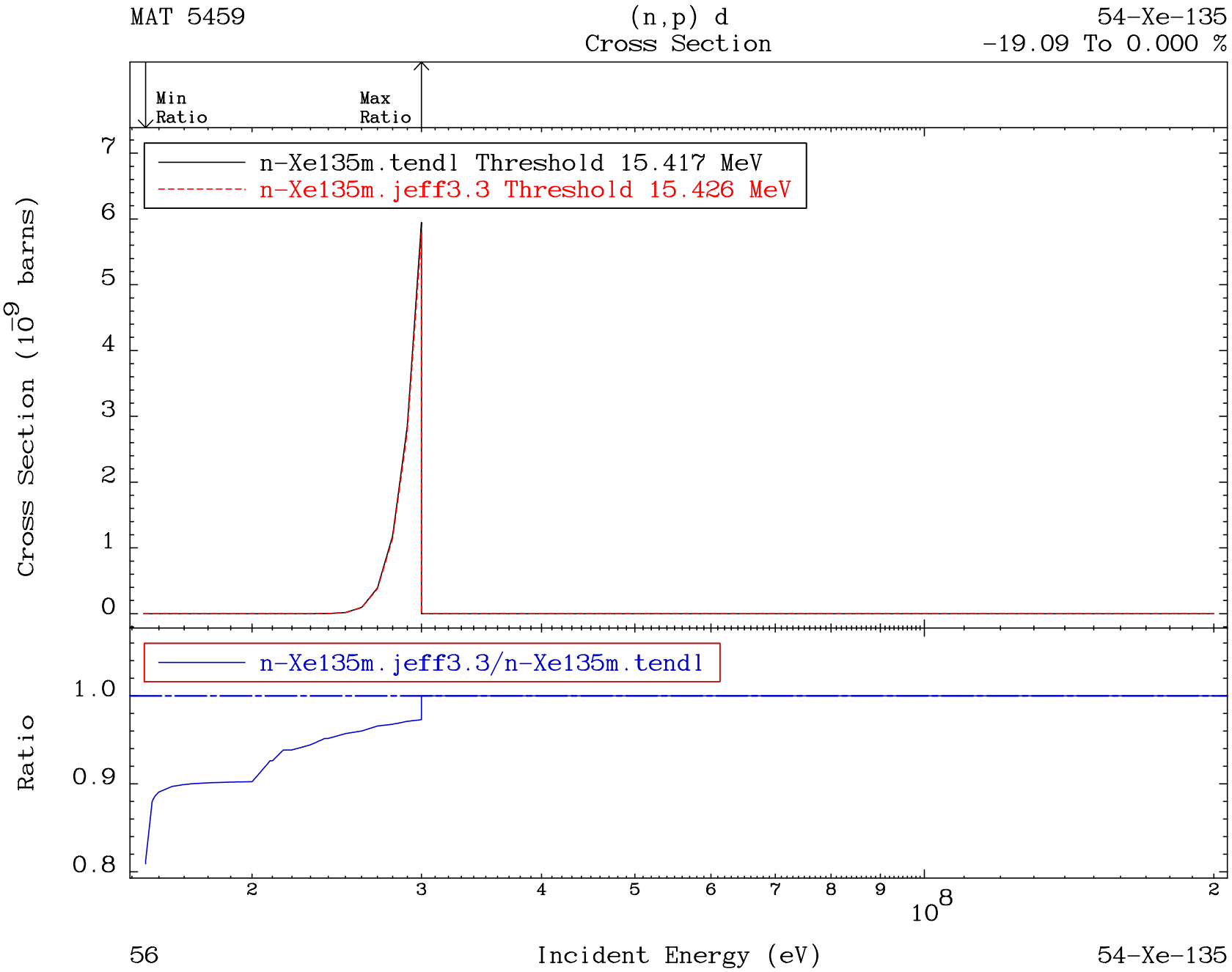

MAT 5459
(n,t)
Cross Section
54-Xe-135
0.000 To 5276. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 6.9585 MeV
n-Xe135m.jeff3.3 Threshold 6.9336 MeV
Cross Section (milli-barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
51
54-Xe-135

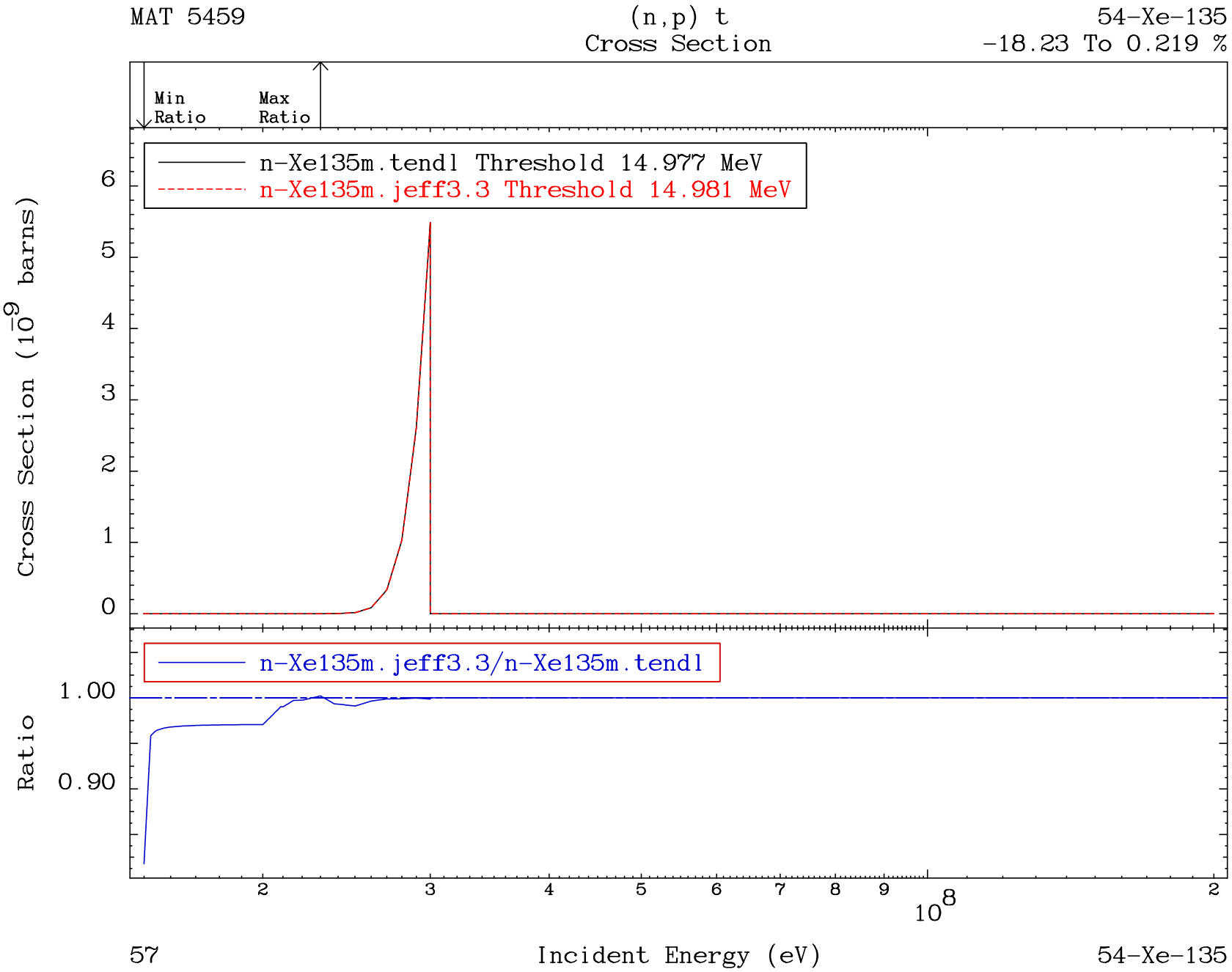

MAT 5459
(n,He-3)
Cross Section
54-Xe-135
-22.56 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 9.8827 MeV
n-Xe135m.jeff3.3 Threshold 9.8914 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
54-Xe-135

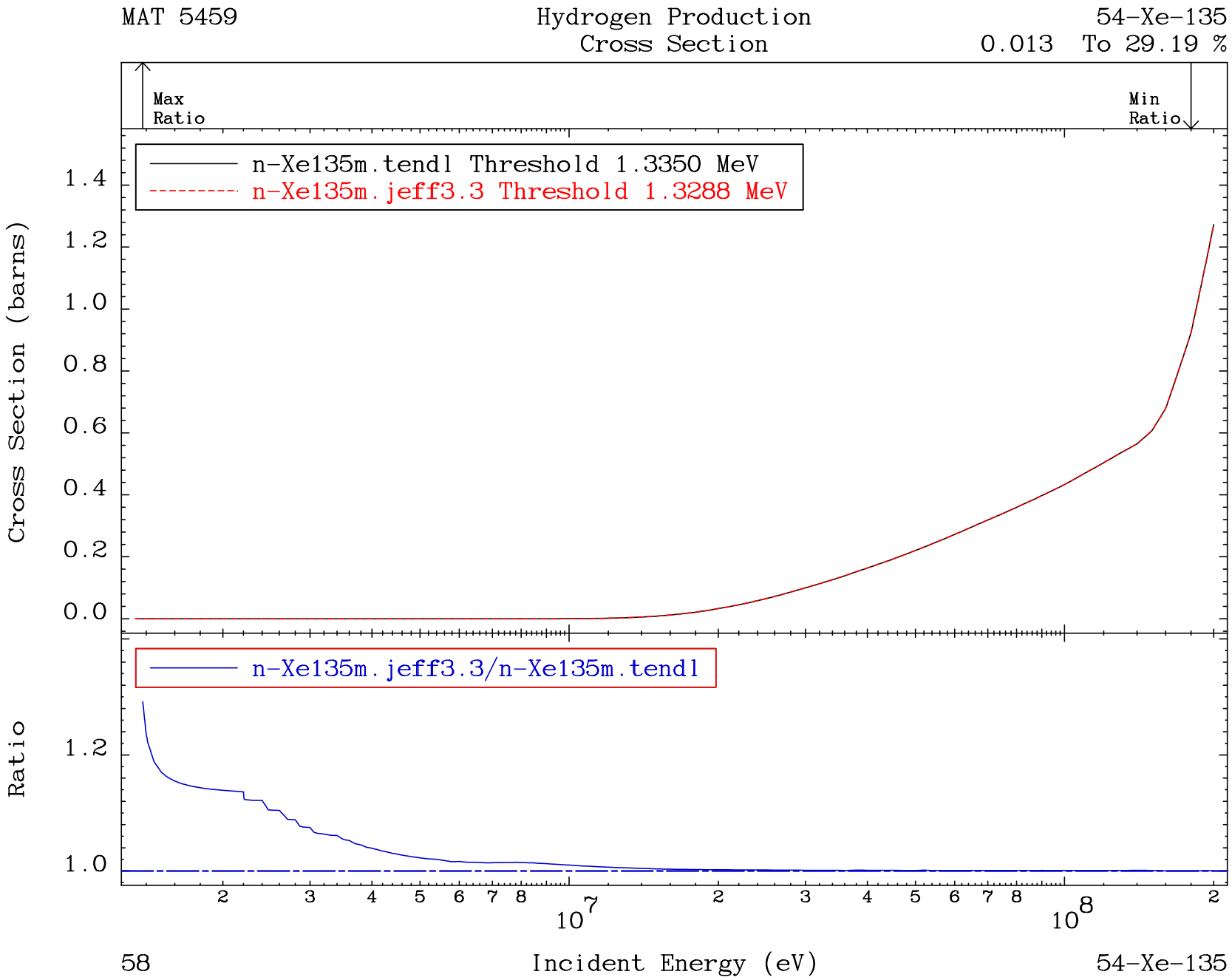

MAT 5459
(n,α)
Cross Section
54-Xe-135
-9.116 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
53
Incident Energy (eV)
54-Xe-135

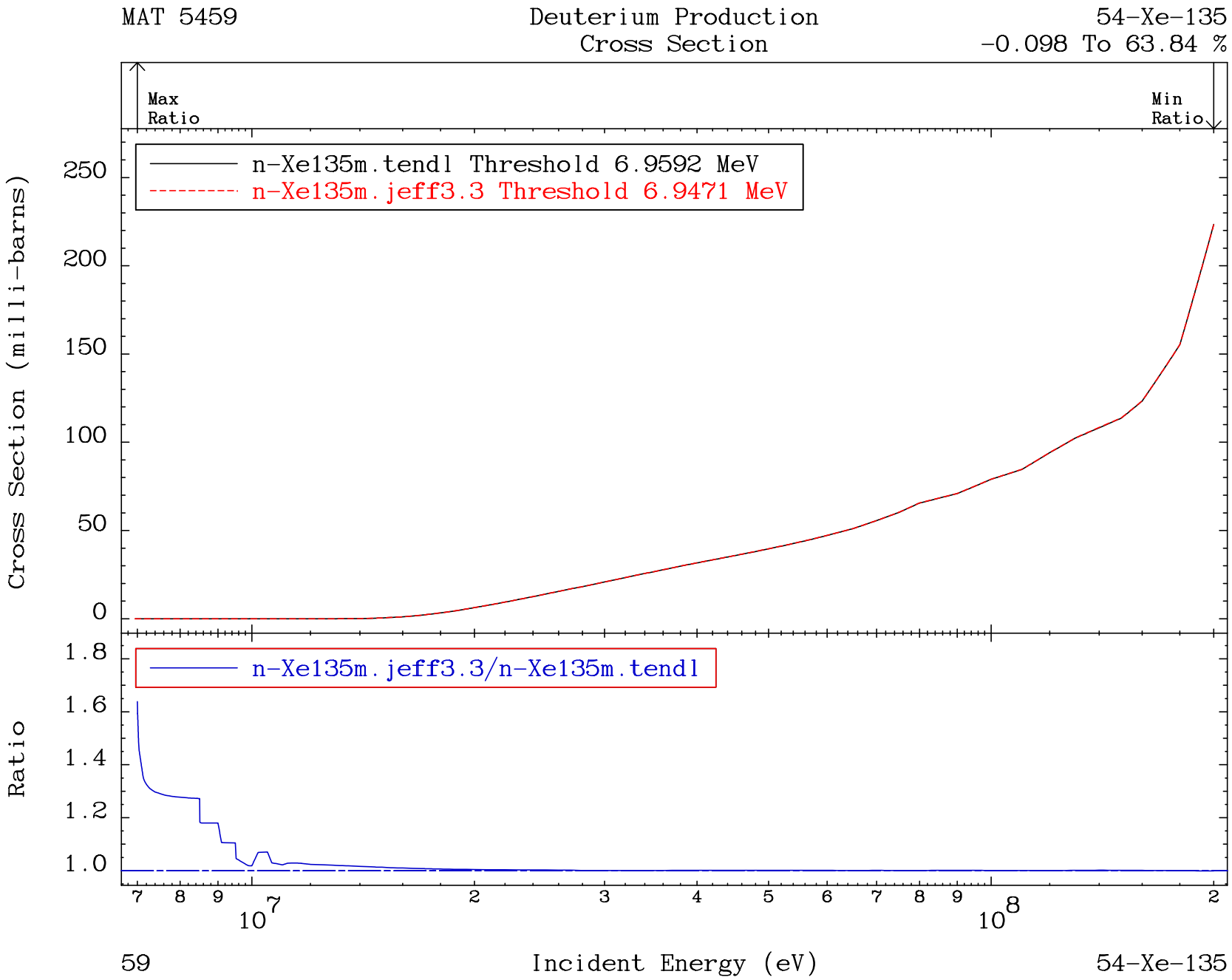

MAT 5459
(n,2p)
Cross Section
54-Xe-135
-4.480 To 0.188 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 9.9332 MeV
n-Xe135m.jeff3.3 Threshold 9.9346 MeV
Cross Section (micro-barns)
0
1
2
3
4
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
0.96
0.98
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
54-Xe-135

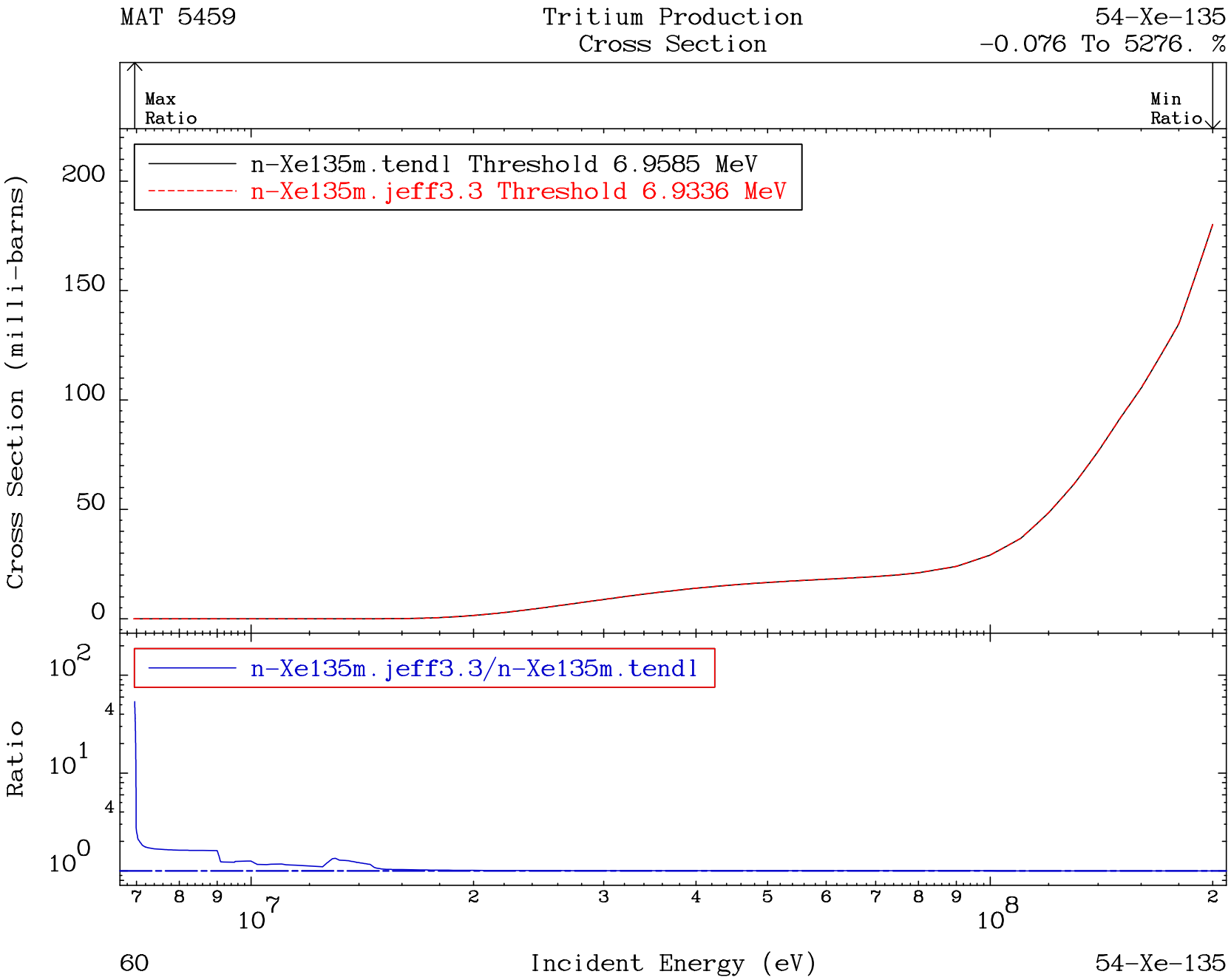

MAT 5459
(n,p) α
Cross Section
54-Xe-135
-84.97 To 9999. %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 5.5892 MeV
n-Xe135m.jeff3.3 Threshold 5.5924 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^{2}
10^{0}
6 7 8 9 10^{7} 2 3 4 5 6 7 8 9 10^{8} 2
55
Incident Energy (eV)
54-Xe-135

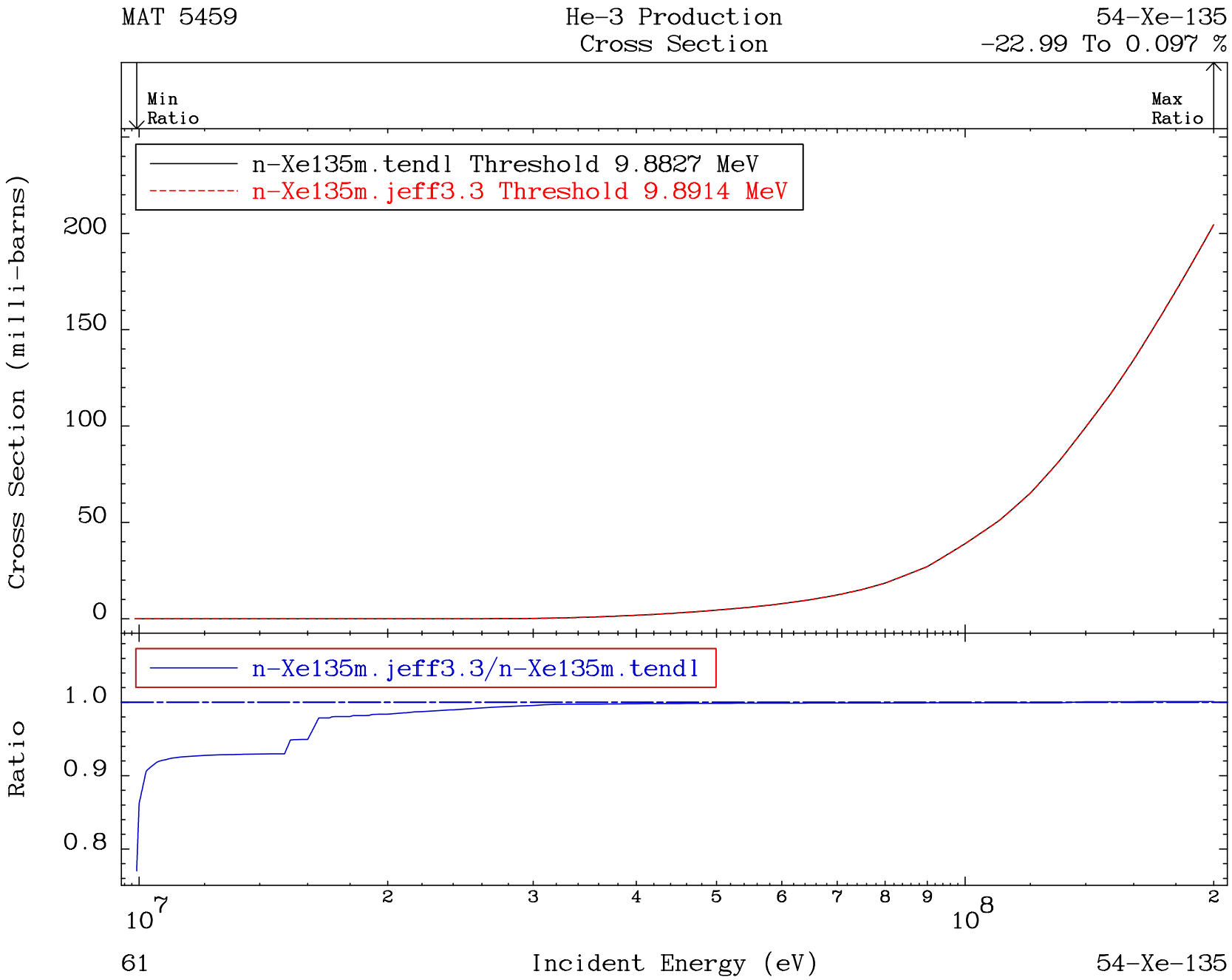

MAT 5459
(n,p) d
Cross Section
54-Xe-135
-19.09 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 15.417 MeV
n-Xe135m.jeff3.3 Threshold 15.426 MeV
Cross Section (10^{-9} barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^{8}
56
Incident Energy (eV)
54-Xe-135

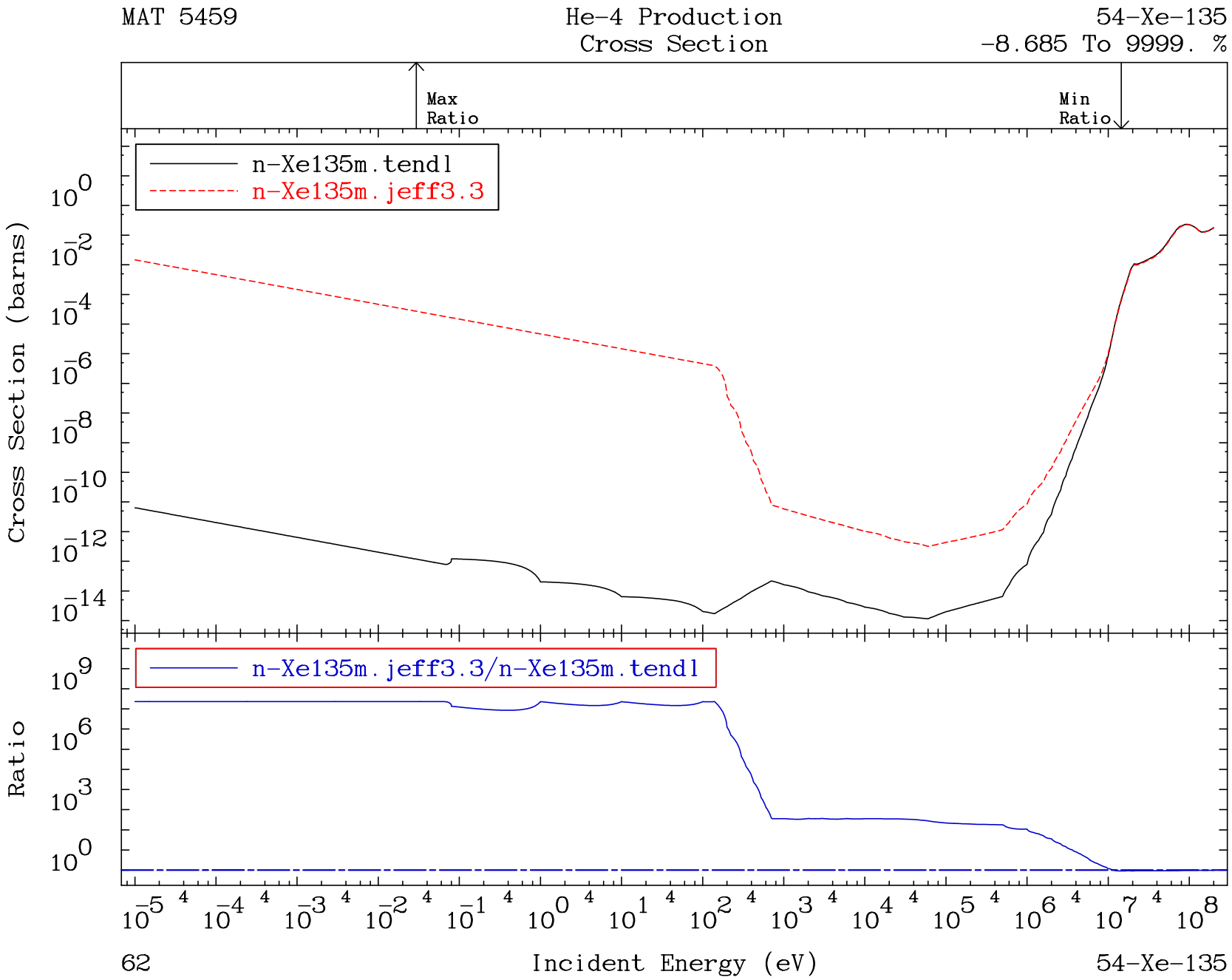

MAT 5459
(n,p) t
Cross Section
54-Xe-135
-18.23 To 0.219 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 14.977 MeV
n-Xe135m.jeff3.3 Threshold 14.981 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
5
6
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.90
2
3
4
5
6
7
8
9
10^{8}
2
57
Incident Energy (eV)
54-Xe-135

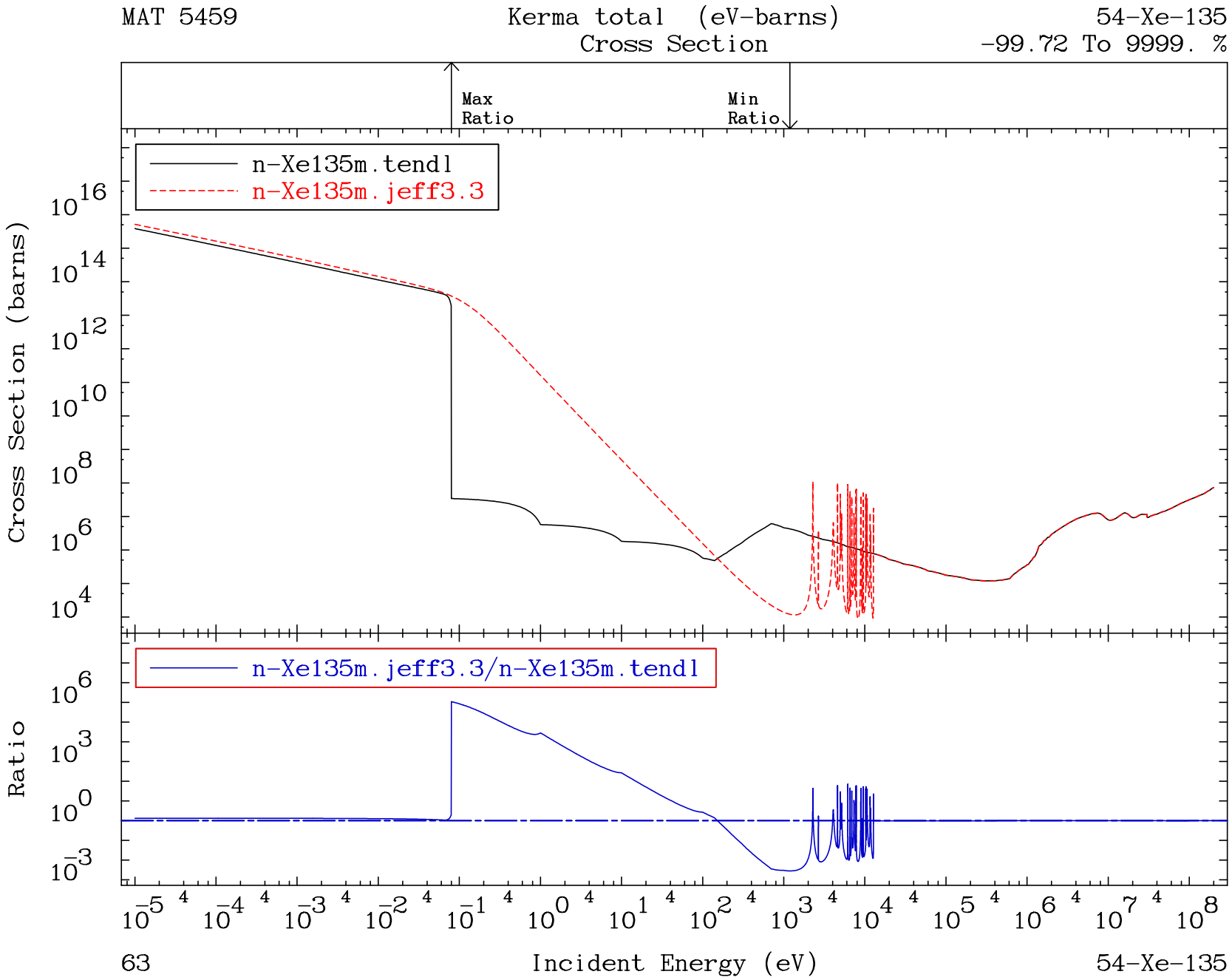

MAT 5459
Hydrogen Production
Cross Section
54-Xe-135
0.013 To 29.19 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 1.3350 MeV
n-Xe135m.jeff3.3 Threshold 1.3288 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.2
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
58
Incident Energy (eV)
54-Xe-135

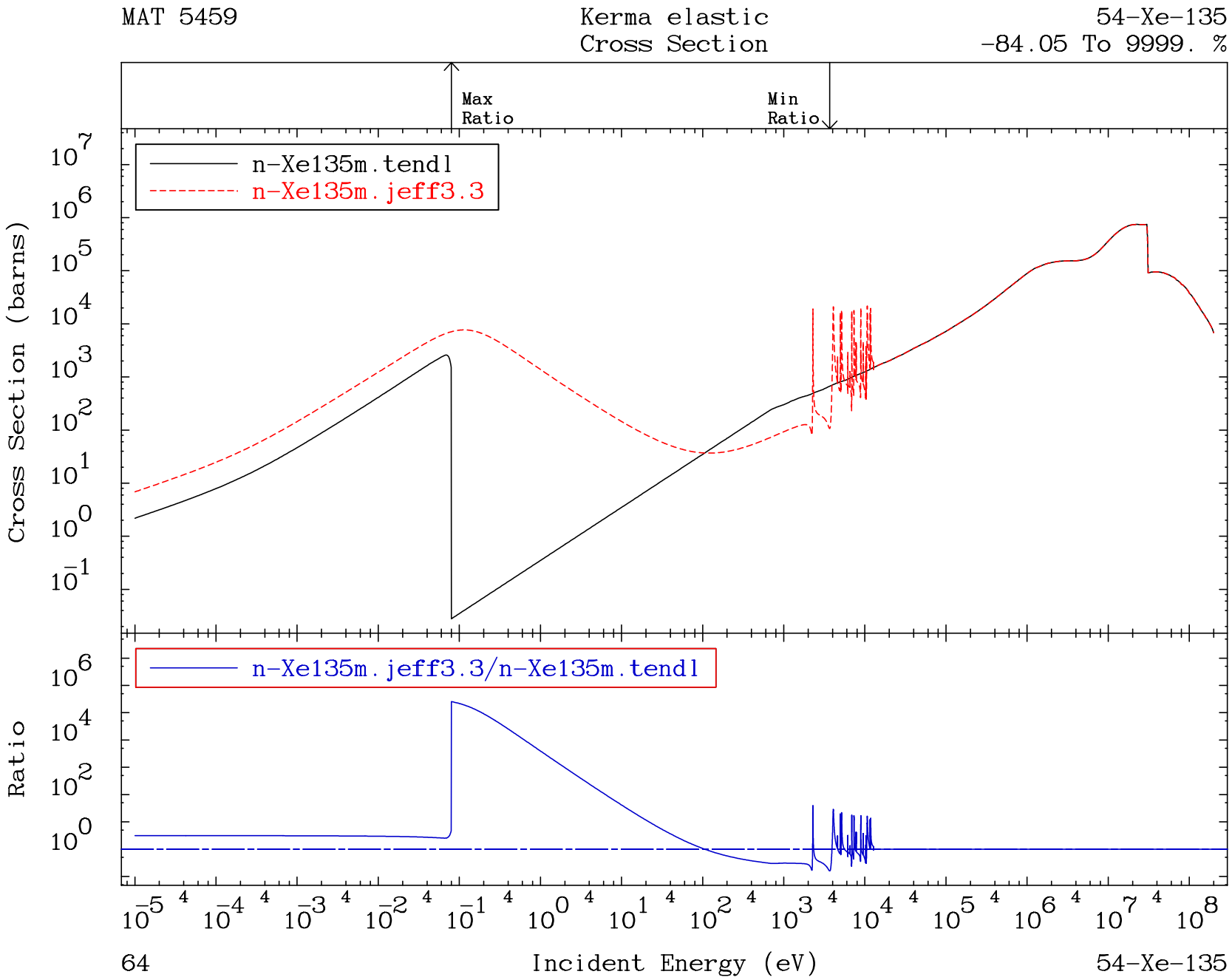

MAT 5459
Deuterium Production
Cross Section
54-Xe-135
-0.098 To 63.84 %
Max
Ratio
Min
Ratio
n-Xe135m.tendl Threshold 6.9592 MeV
n-Xe135m.jeff3.3 Threshold 6.9471 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.8
1.6
1.4
1.2
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
59
Incident Energy (eV)
54-Xe-135

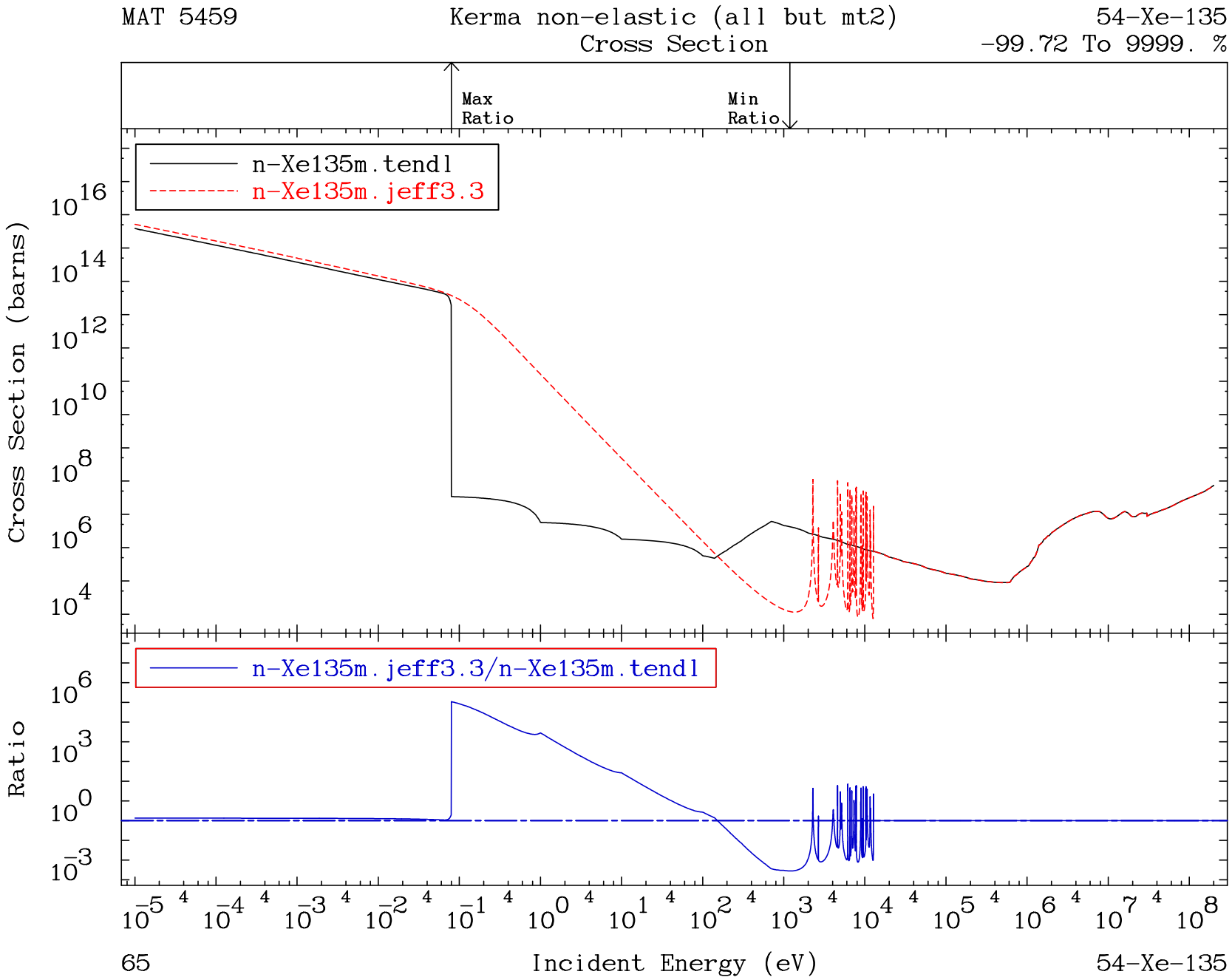

MAT 5459
Tritium Production
Cross Section
54-Xe-135
-0.076 To 5276. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 6.9585 MeV
n-Xe135m.jeff3.3 Threshold 6.9336 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^2
10^1
10^0
4
4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
54-Xe-135

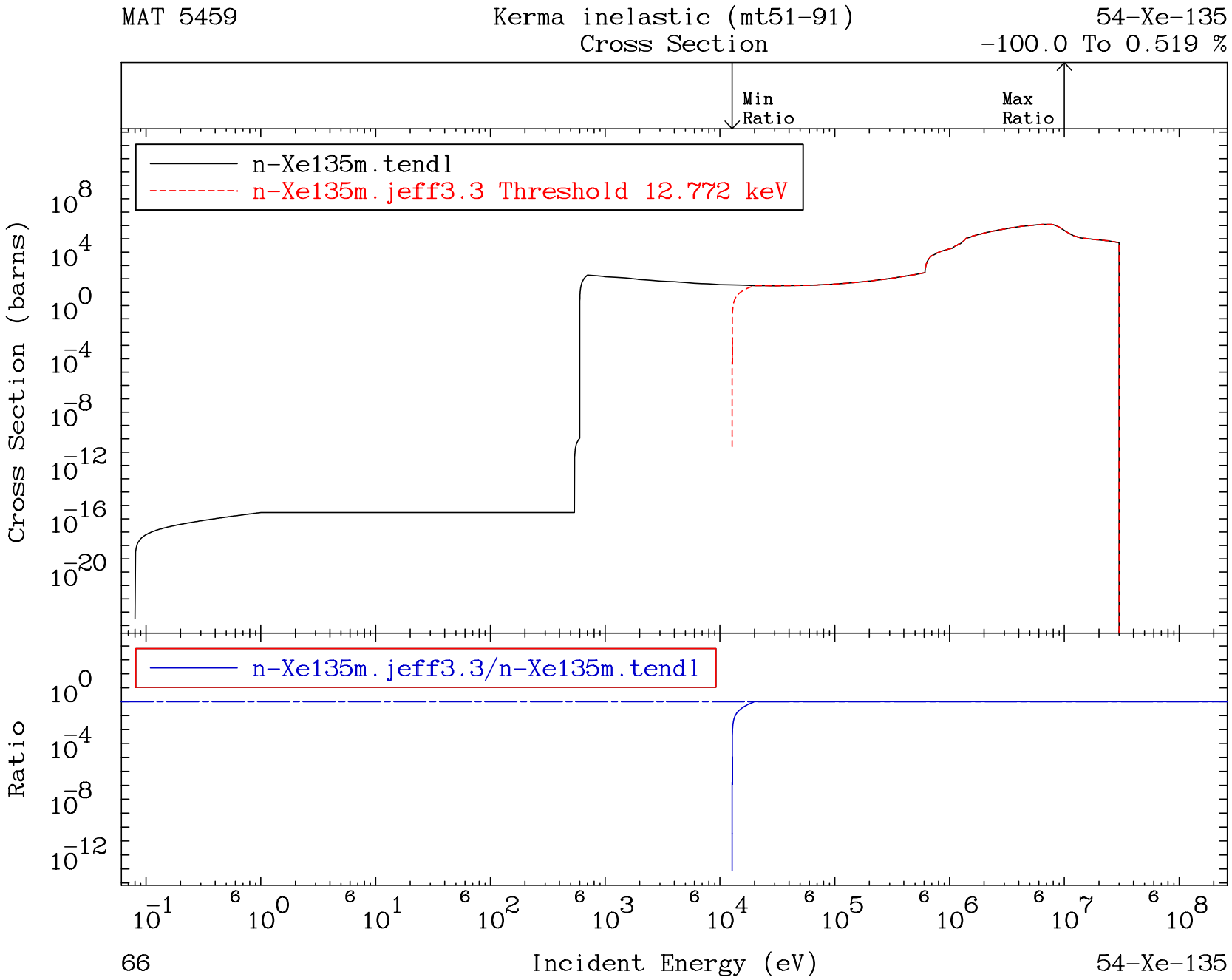

MAT 5459
He-3 Production
Cross Section
54-Xe-135
-22.99 To 0.097 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 9.8827 MeV
n-Xe135m.jeff3.3 Threshold 9.8914 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
54-Xe-135

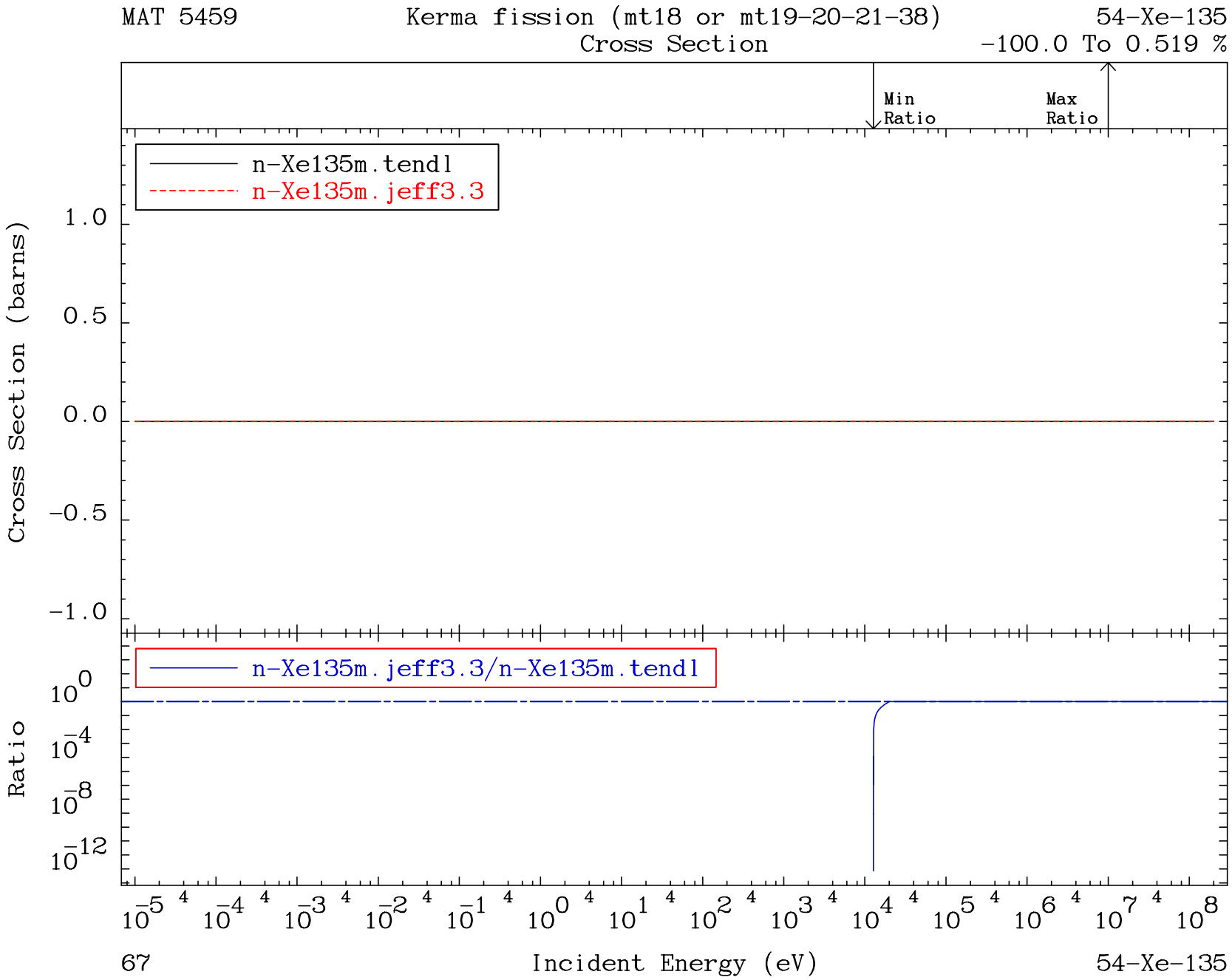

MAT 5459
He-4 Production
Cross Section
54-Xe-135
-8.685 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
62
54-Xe-135

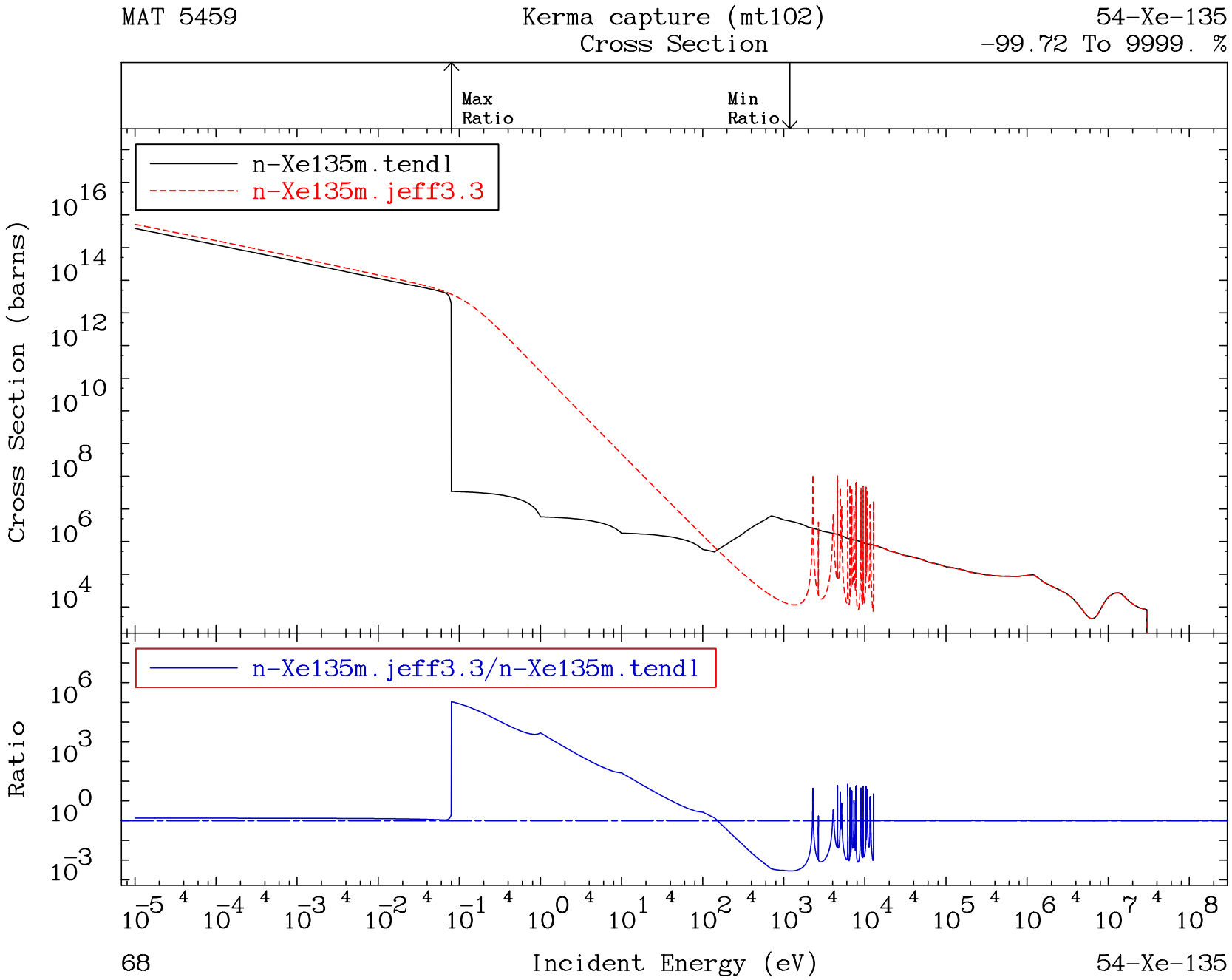

MAT 5459
Kerma total (eV-barns)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
63
Incident Energy (eV)
54-Xe-135

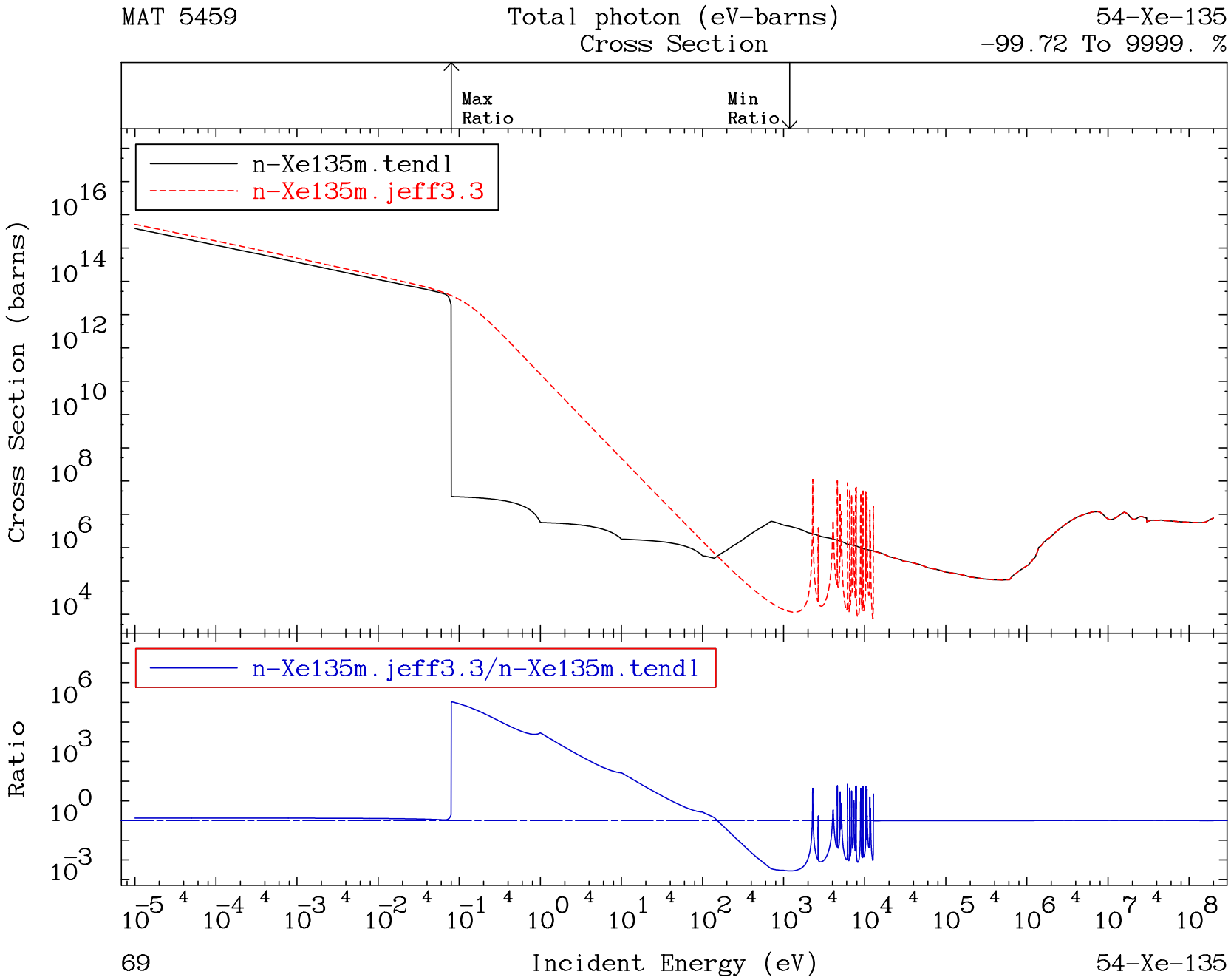

MAT 5459
Kerma elastic
Cross Section
54-Xe-135
-84.05 To 9999. %
Max
Ratio
Min
Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
64
54-Xe-135

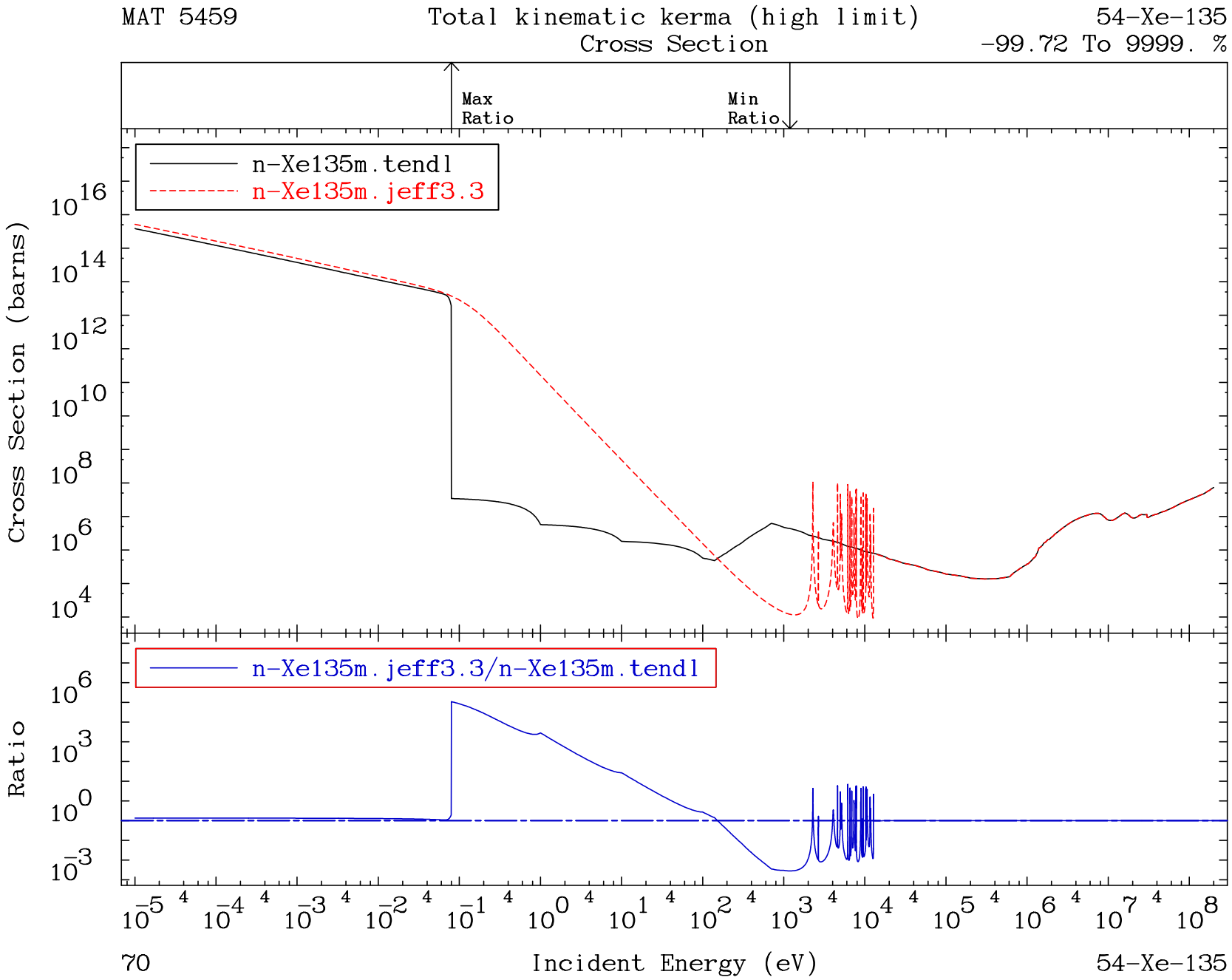

MAT 5459
Kerma non-elastic (all but mt2)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
65
54-Xe-135

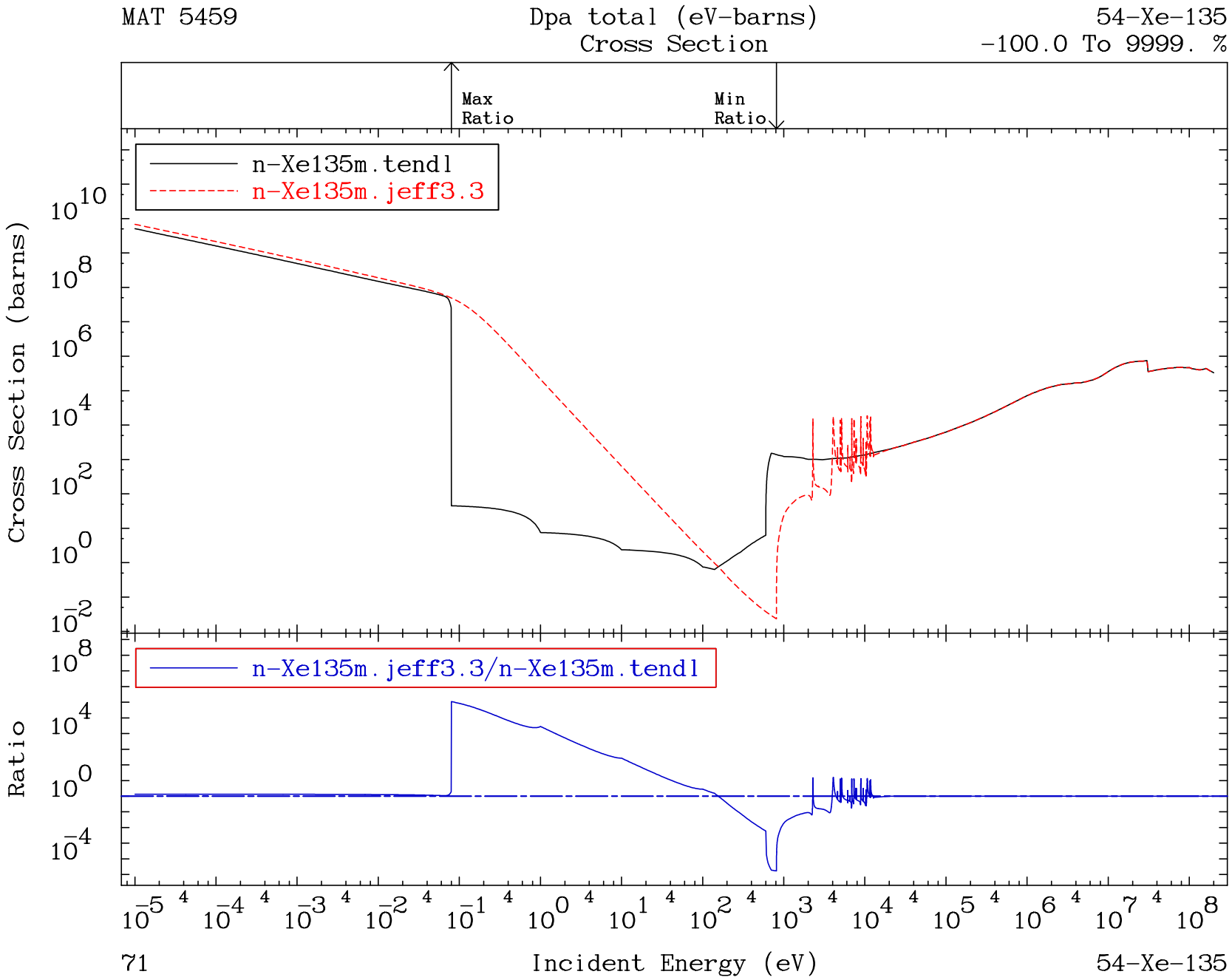

MAT 5459
Kerma inelastic (mt51-91)
Cross Section
54-Xe-135
-100.0 To 0.519 %
Min Ratio
Max Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3 Threshold 12.772 keV
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
66
54-Xe-135

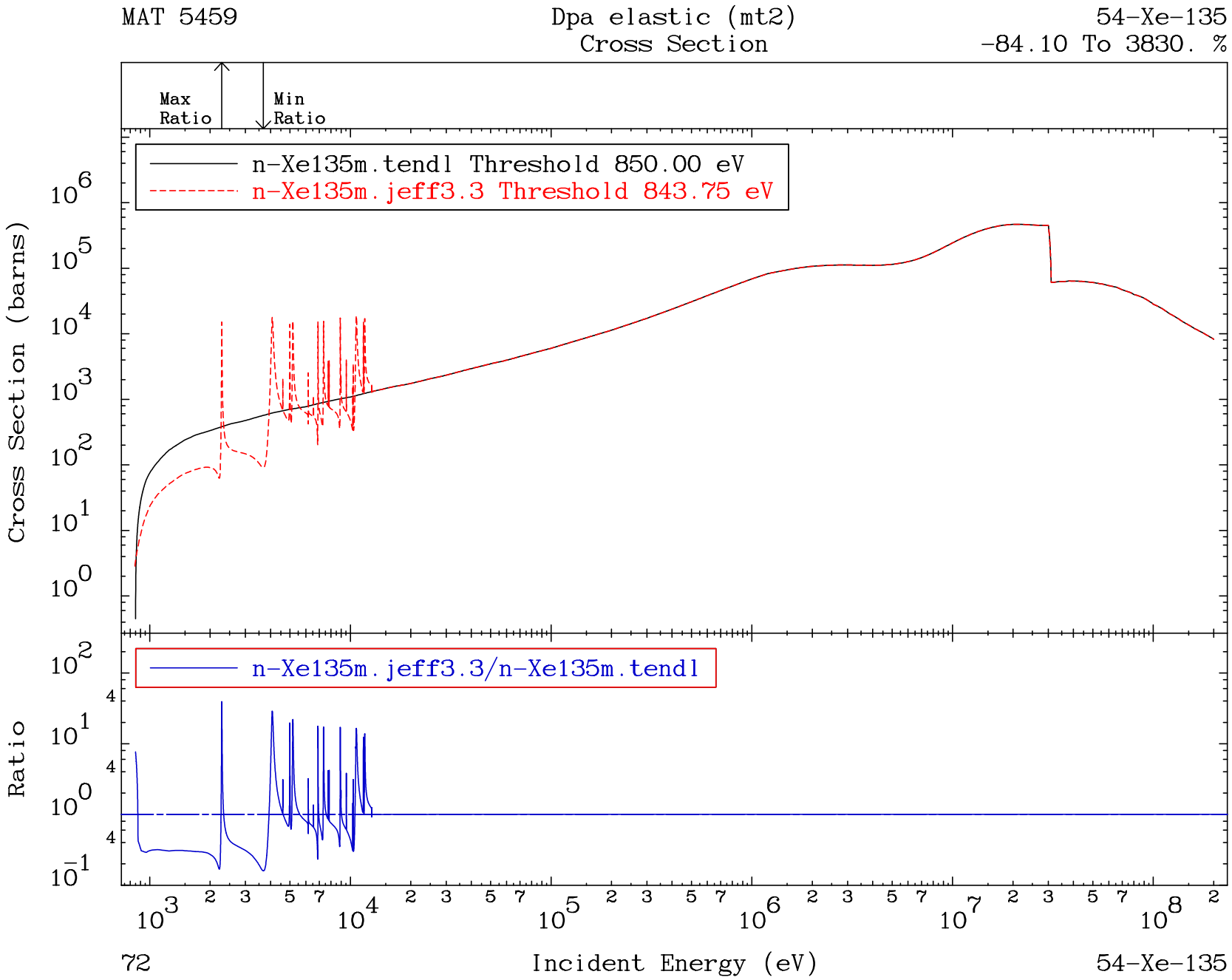

MAT 5459
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
54-Xe-135
-100.0 To 0.519 %
Min Ratio
Max Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^-4
10^-8
10^-12
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
67
Incident Energy (eV)
54-Xe-135

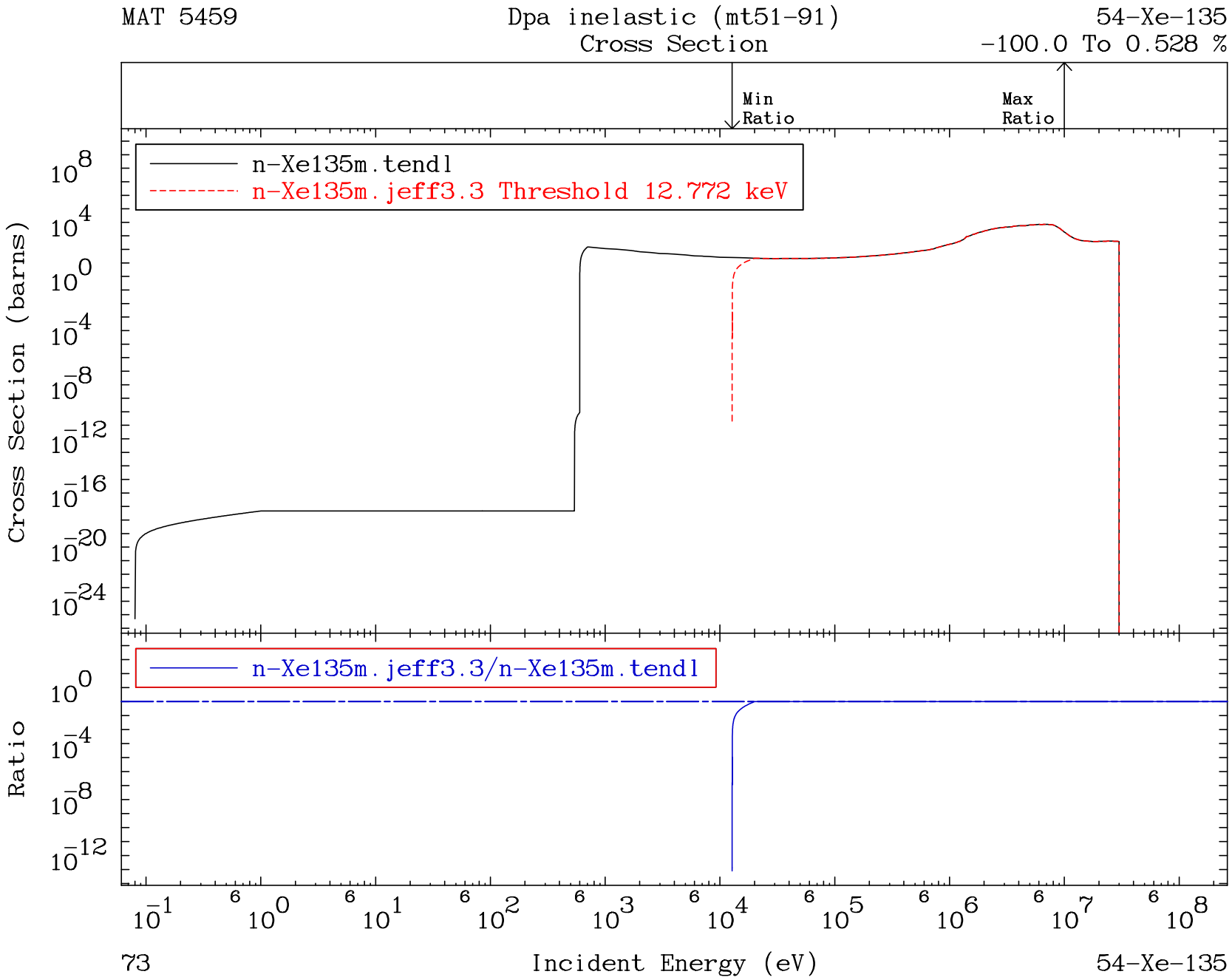

MAT 5459
Kerma capture (mt102)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
68
54-Xe-135

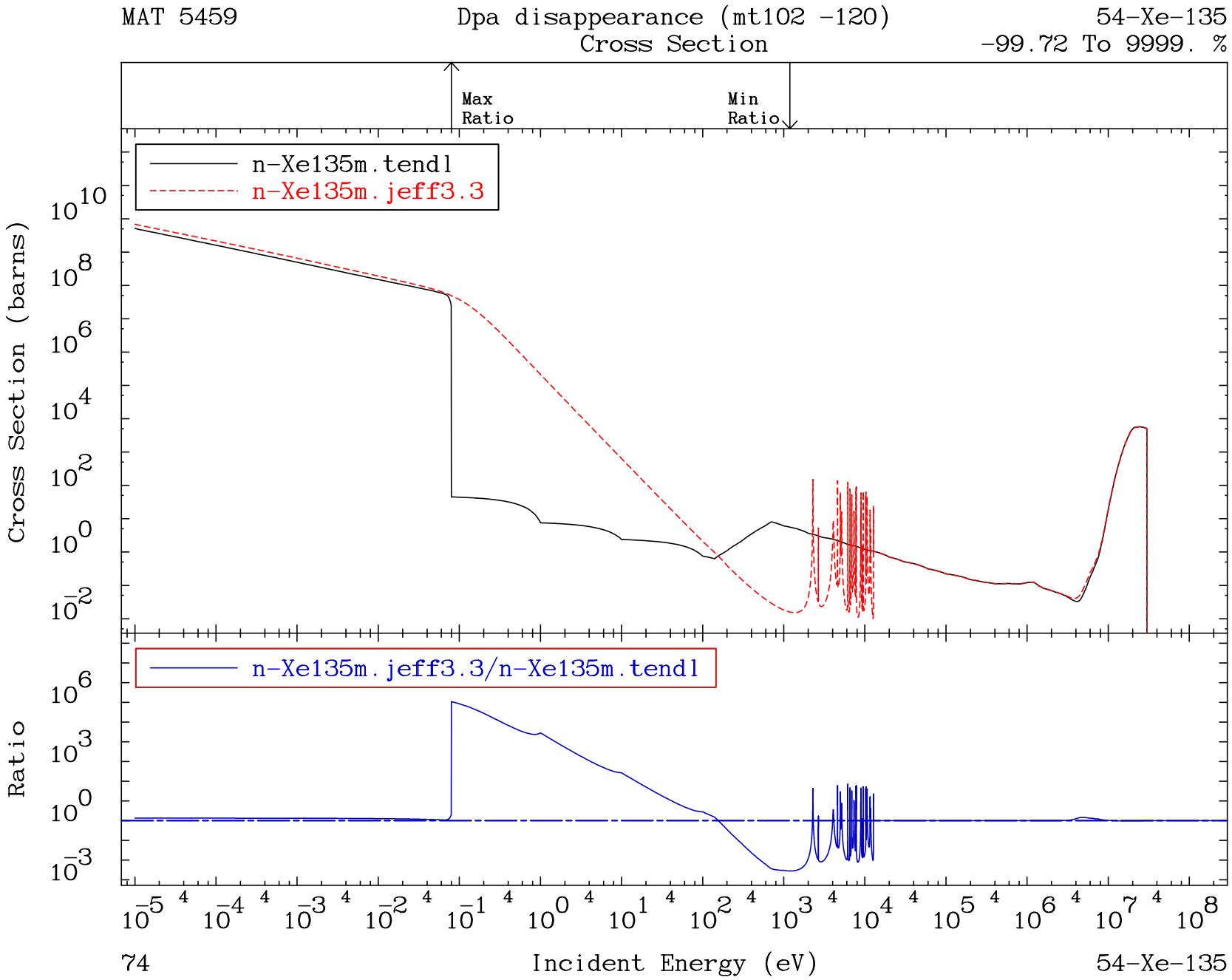

MAT 5459
Total photon (eV-barns)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
69
54-Xe-135

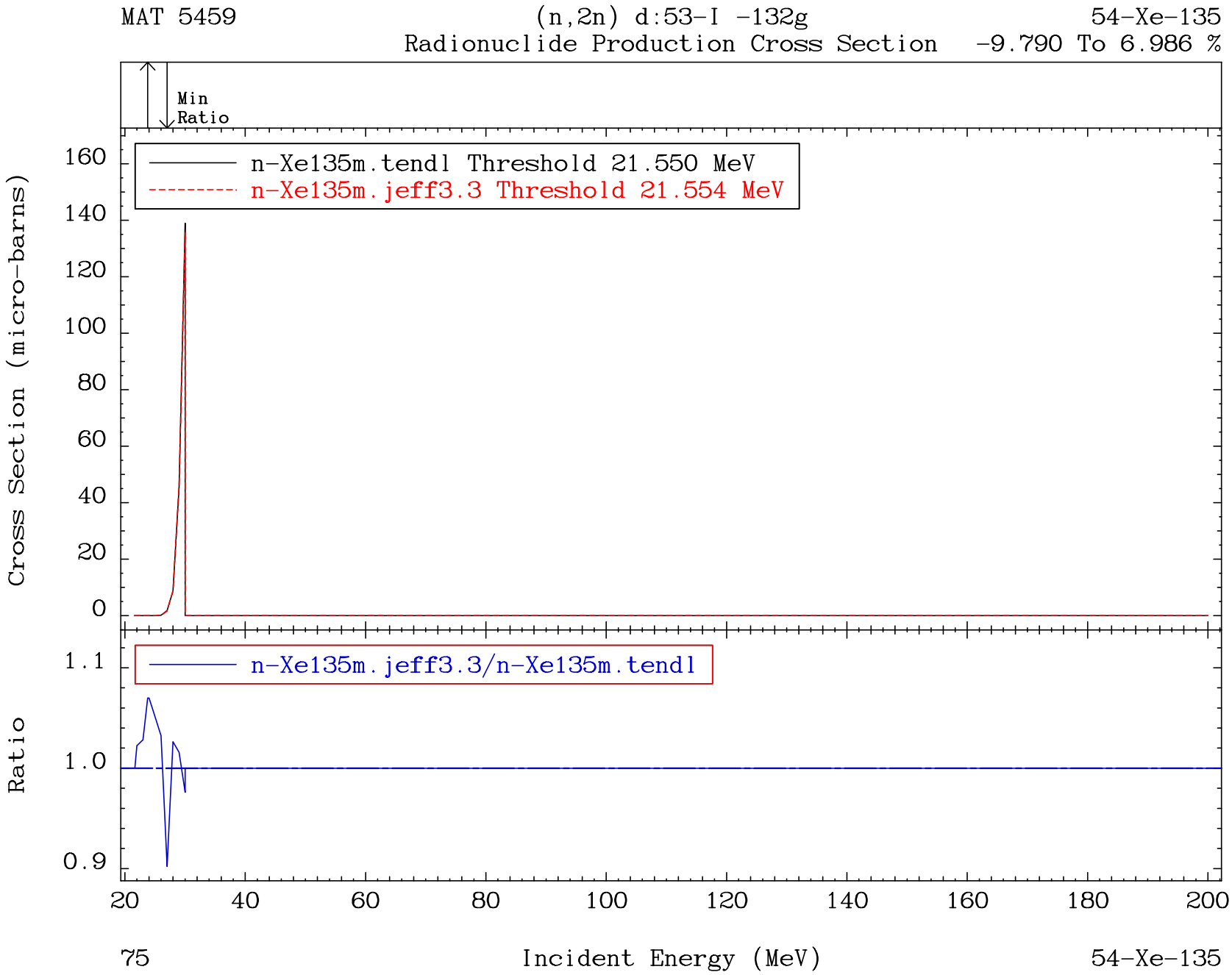

MAT 5459
Total kinematic kerma (high limit)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
70
54-Xe-135

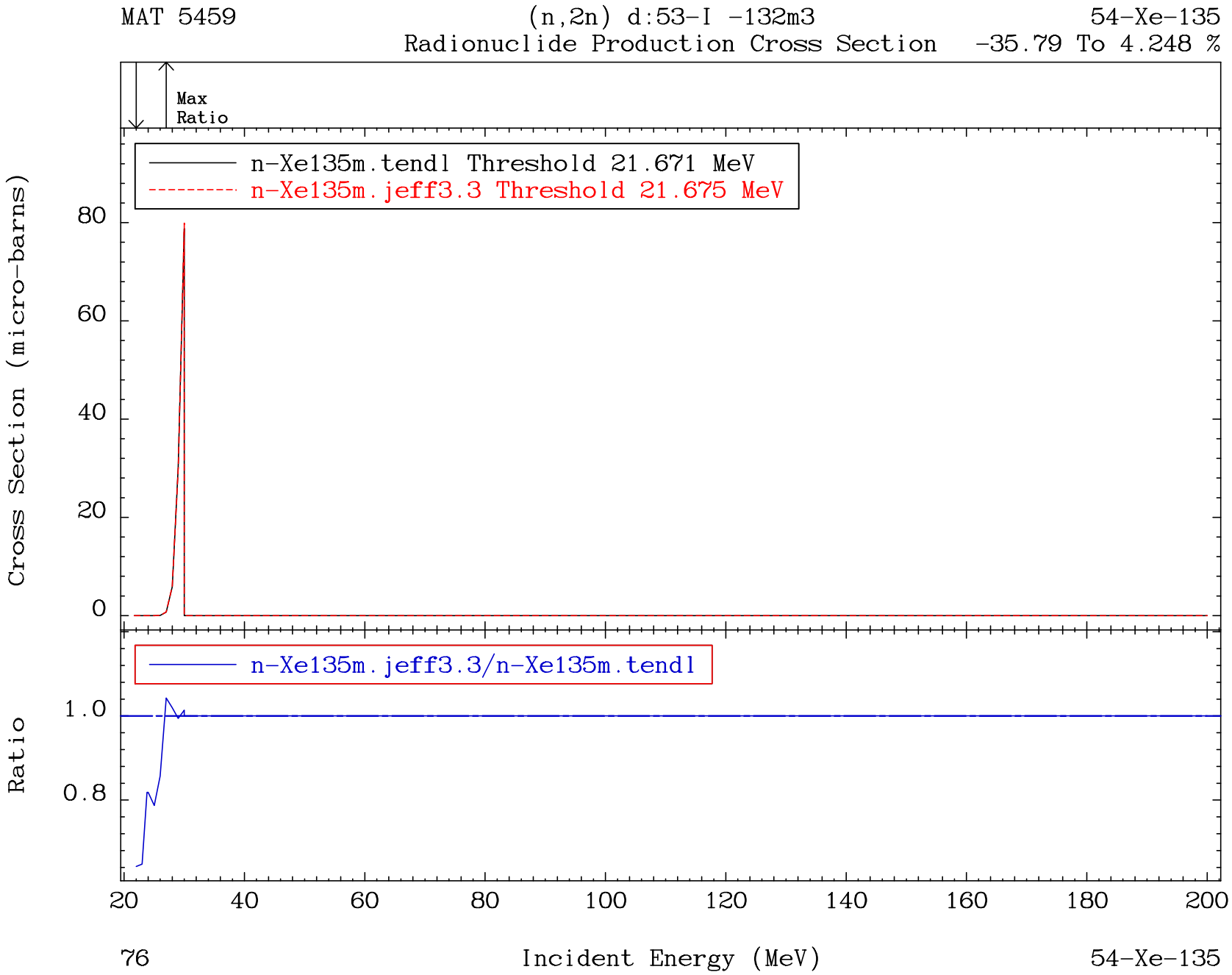

MAT 5459
Dpa total (eV-barns)
Cross Section
54-Xe-135
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
71
54-Xe-135

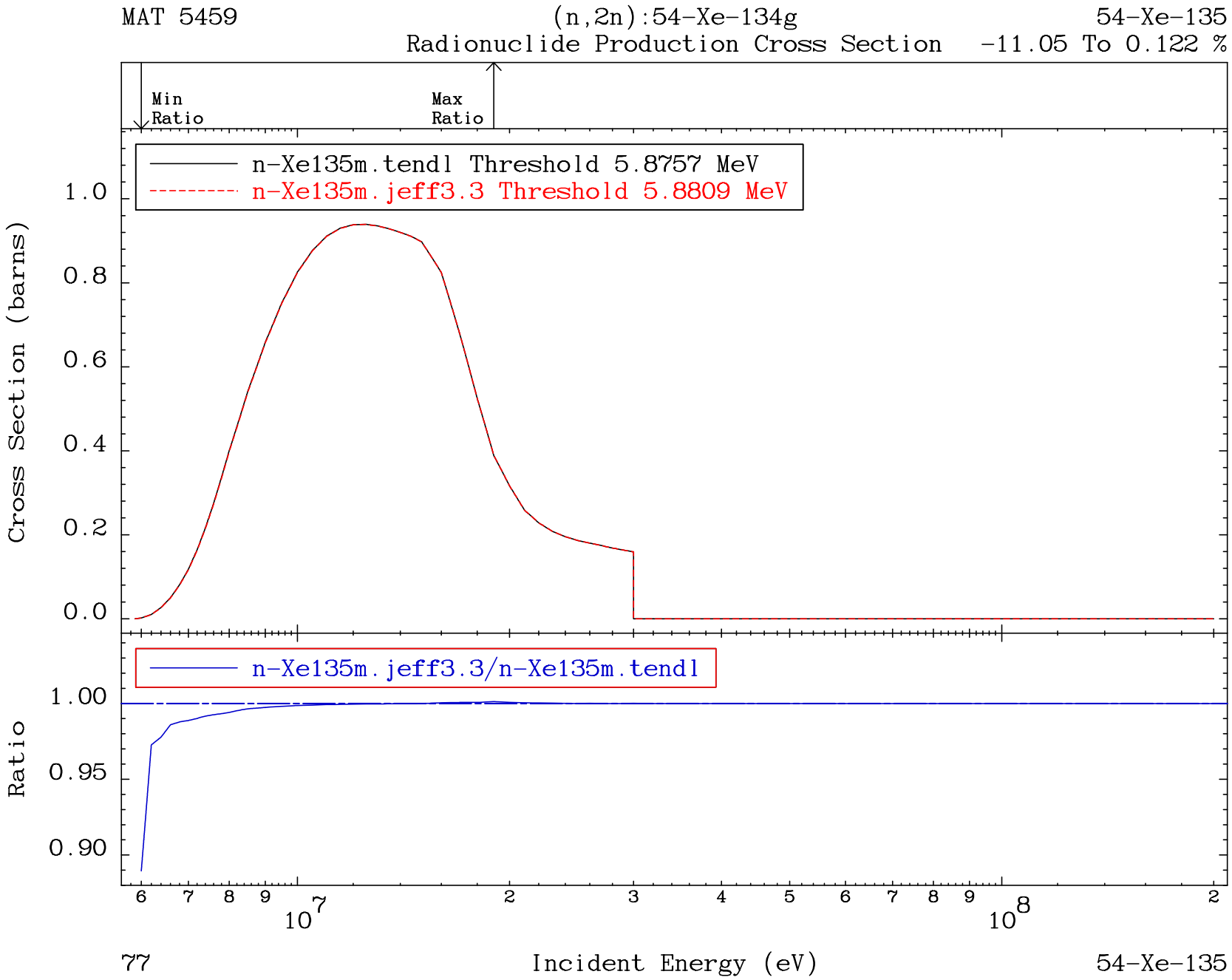

MAT 5459
Dpa elastic (mt2)
Cross Section
54-Xe-135
-84.10 To 3830. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 850.00 eV
n-Xe135m.jeff3.3 Threshold 843.75 eV
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
72
54-Xe-135

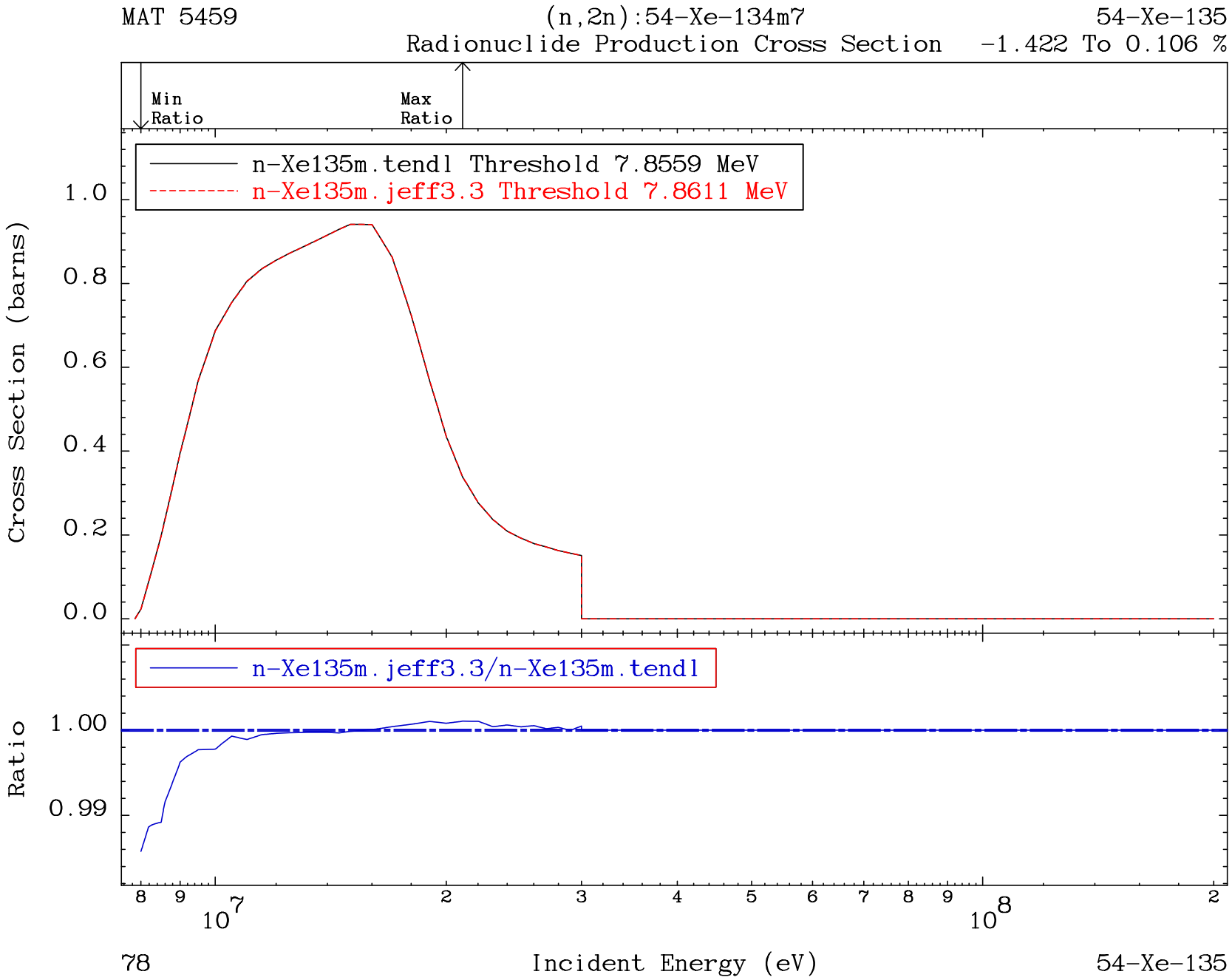

MAT 5459
Dpa inelastic (mt51-91)
Cross Section
54-Xe-135
-100.0 To 0.528 %
Min Ratio
Max Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3 Threshold 12.772 keV
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
73
54-Xe-135

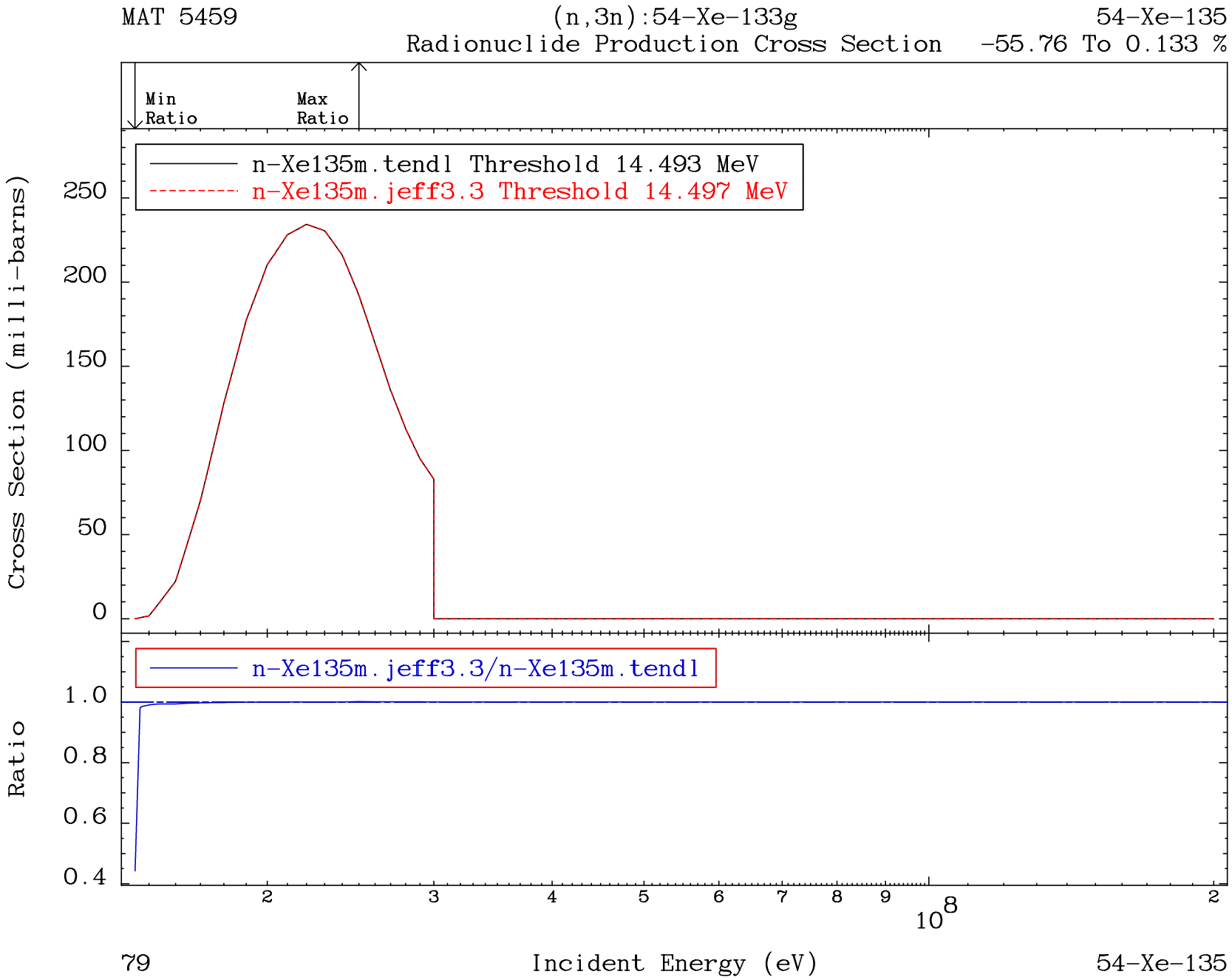

MAT 5459
Dpa disappearance (mt102 -120)
Cross Section
54-Xe-135
-99.72 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl
n-Xe135m.jeff3.3
Cross Section (barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
74
54-Xe-135

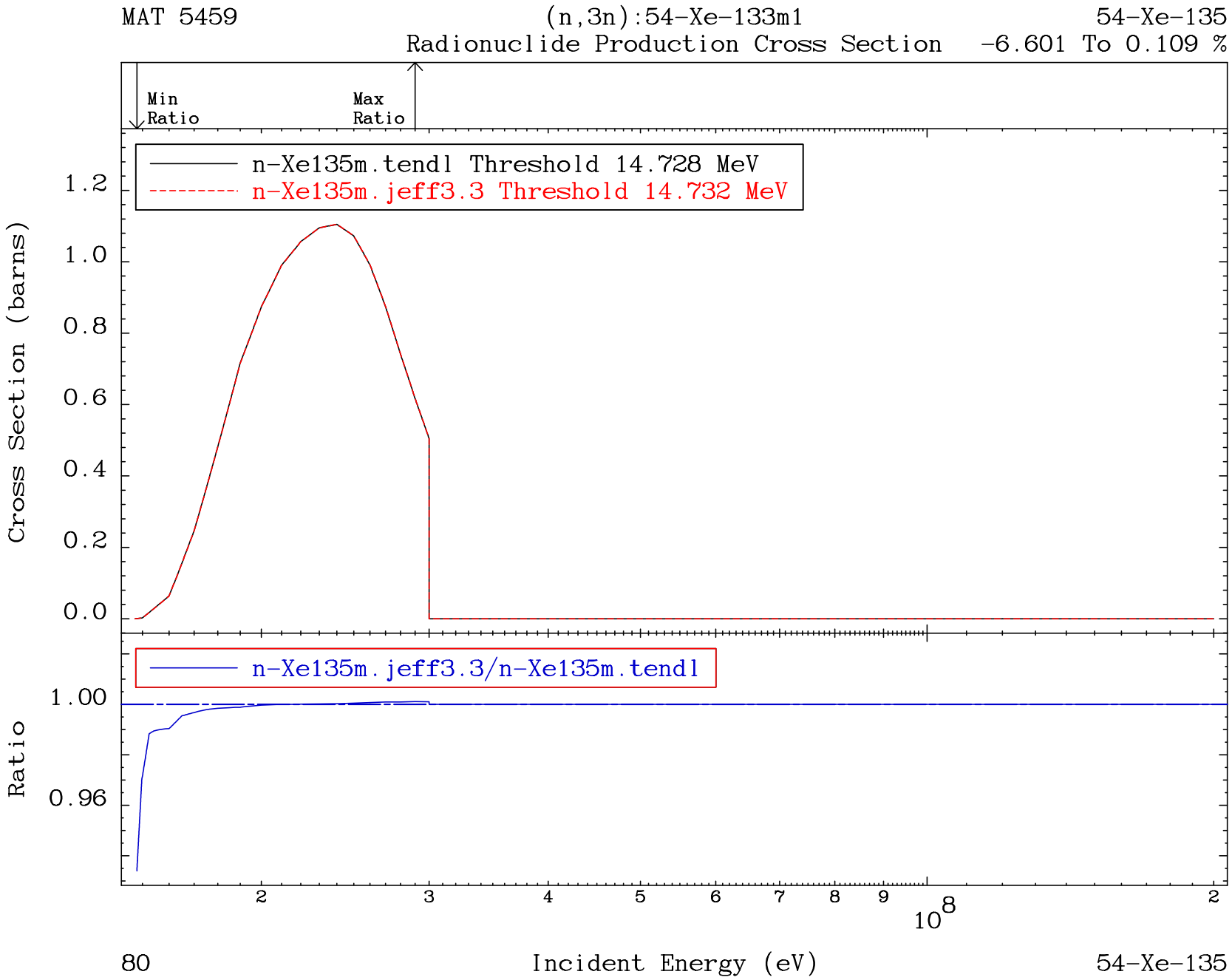

MAT 5459
(n,2n) d:53-I -132g
54-Xe-135
Radionuclide Production Cross Section -9.790 To 6.986 %
Min
Ratio
n-Xe135m.tendl Threshold 21.550 MeV
n-Xe135m.jeff3.3 Threshold 21.554 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.1
1.0
0.9
20
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
54-Xe-135

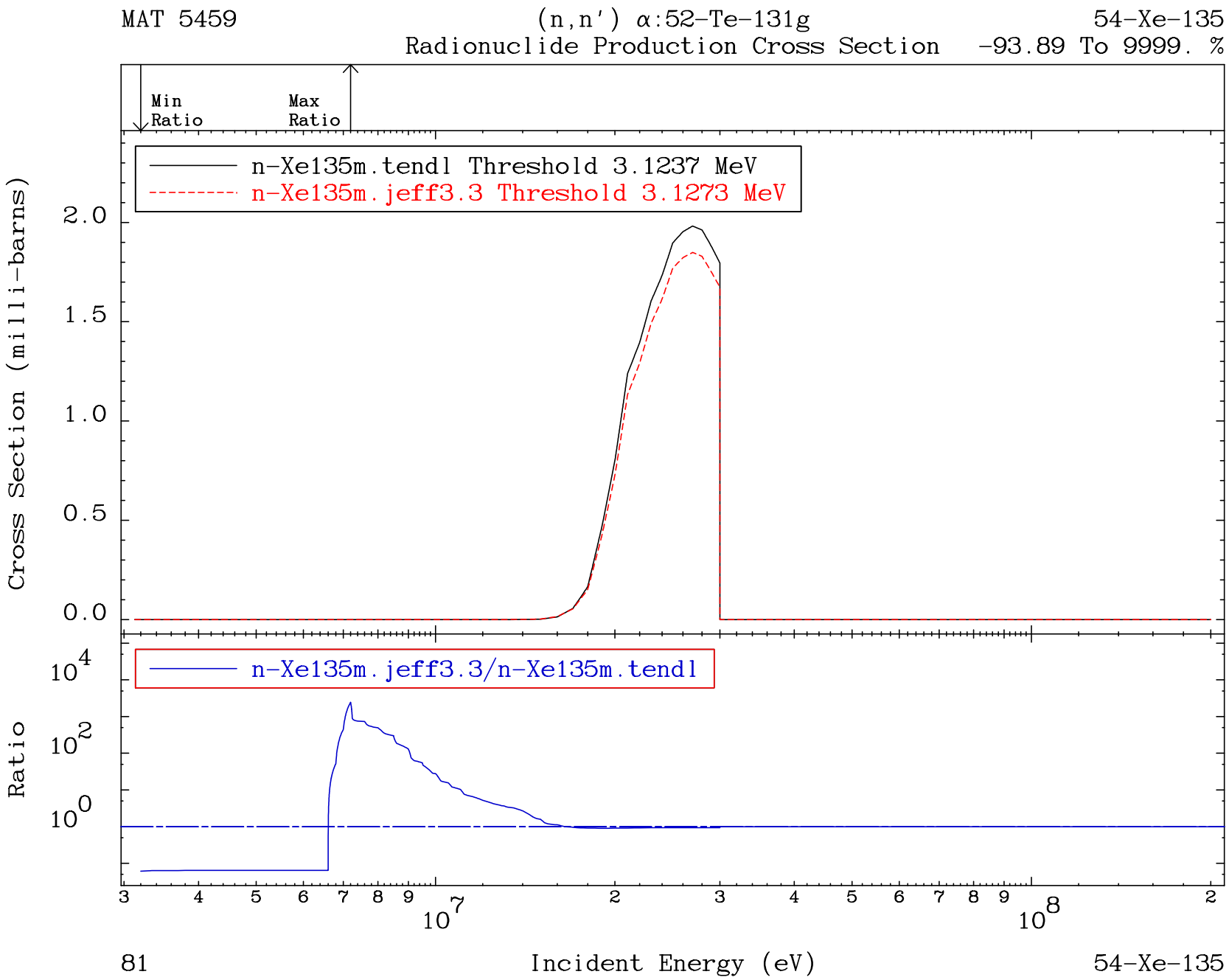

MAT 5459
(n,2n) d:53-I -132m3
54-Xe-135
Radionuclide Production Cross Section -35.79 To 4.248 %
Max
Ratio
n-Xe135m.tendl Threshold 21.671 MeV
n-Xe135m.jeff3.3 Threshold 21.675 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.8
20
40
60
80
100
120
140
160
180
200
76
Incident Energy (MeV)
54-Xe-135

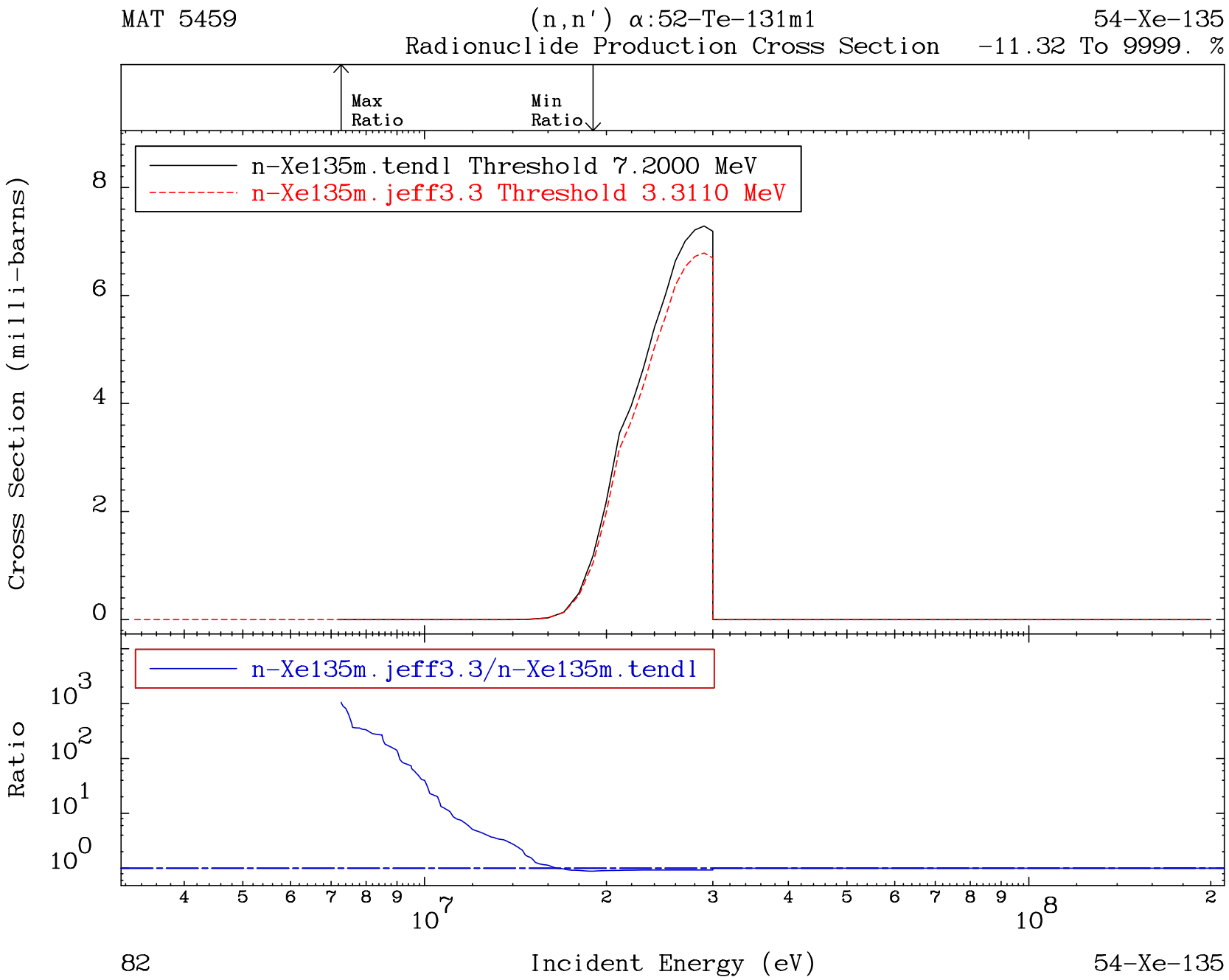

MAT 5459
(n,2n):54-Xe-134g
54-Xe-135
Radionuclide Production Cross Section -11.05 To 0.122 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 5.8757 MeV
n-Xe135m.jeff3.3 Threshold 5.8809 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.95
0.90
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
77
Incident Energy (eV)
54-Xe-135

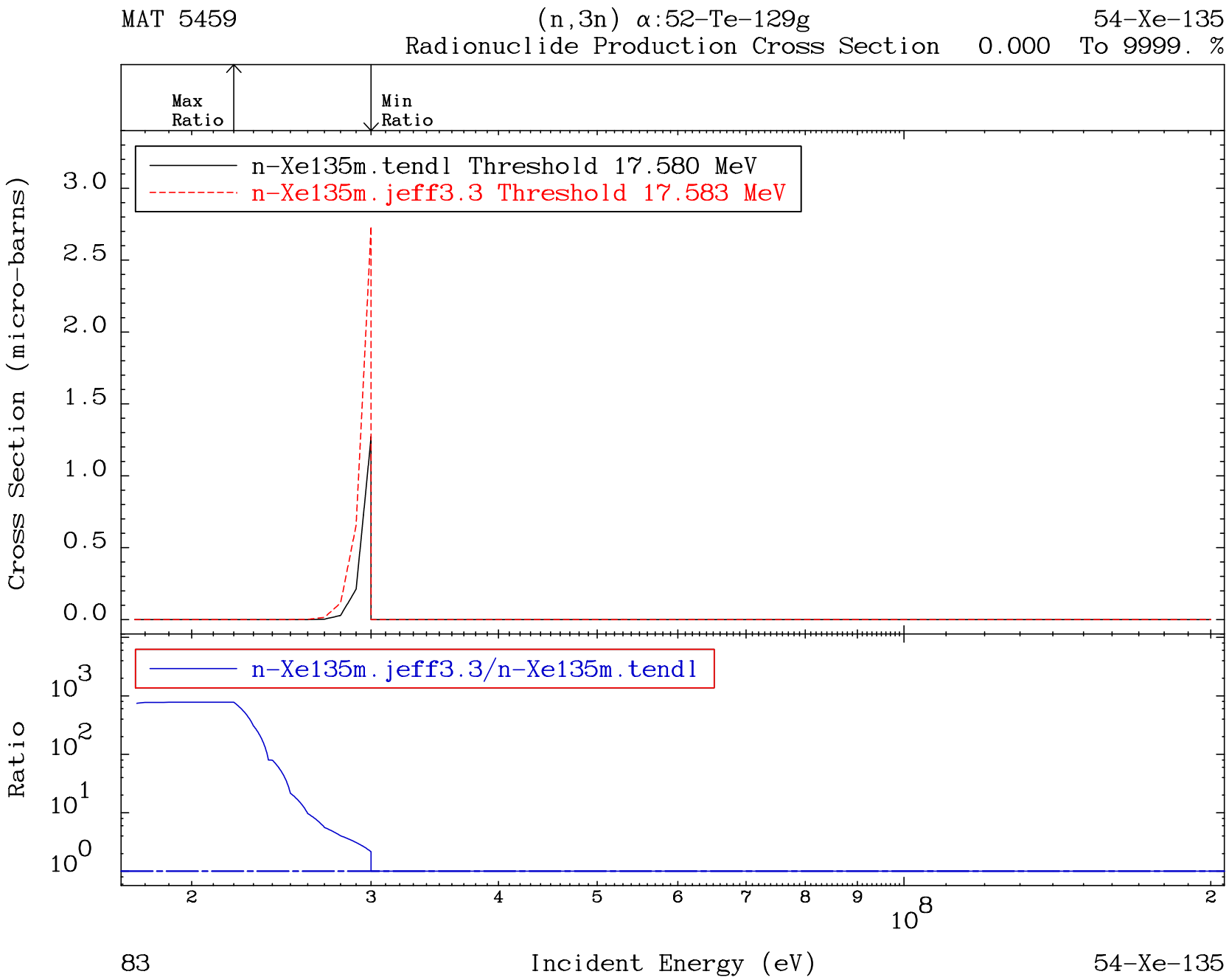

MAT 5459
(n,2n):54-Xe-134m7
54-Xe-135
Radionuclide Production Cross Section -1.422 To 0.106 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 7.8559 MeV
n-Xe135m.jeff3.3 Threshold 7.8611 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
78
Incident Energy (eV)
54-Xe-135

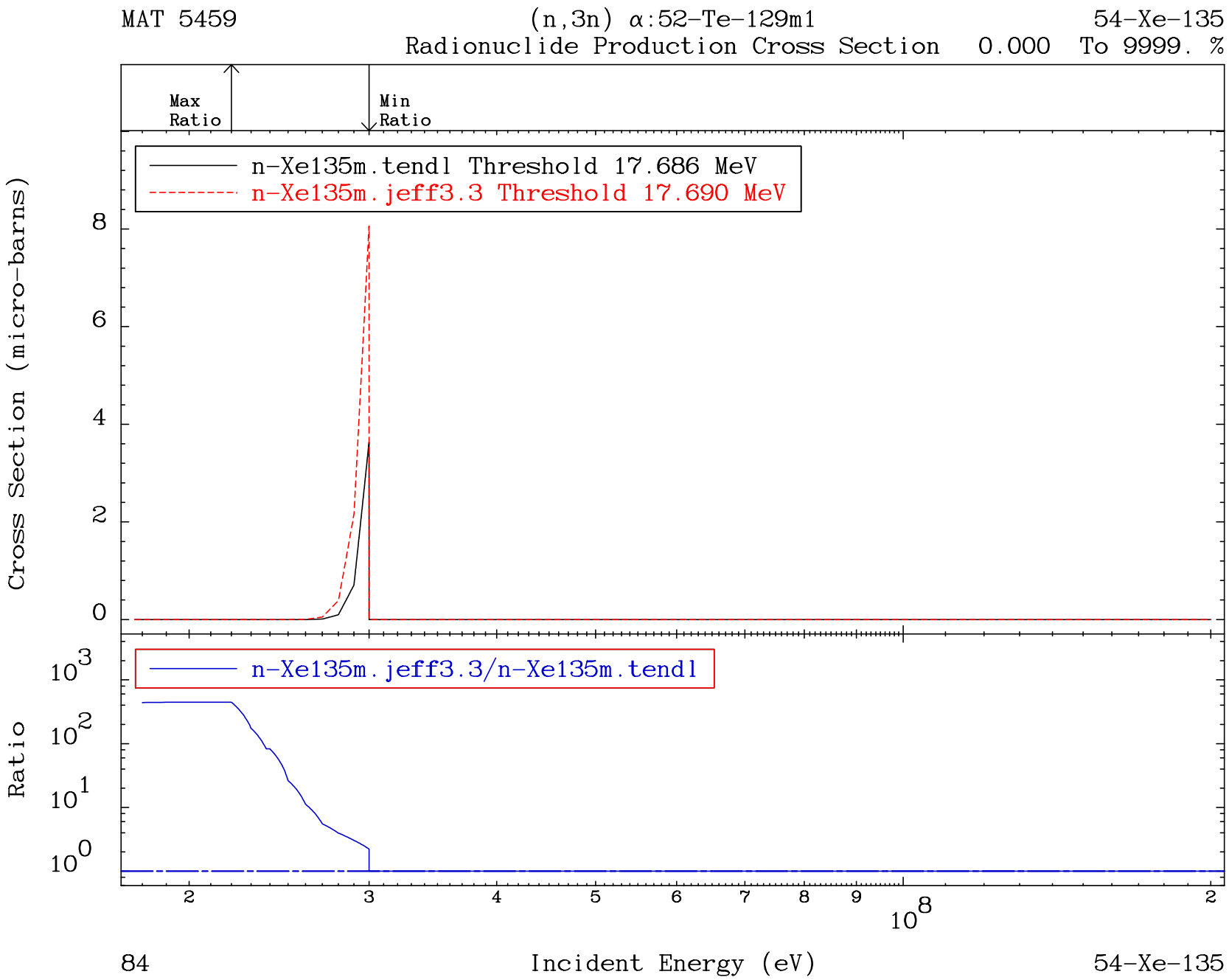

MAT 5459
(n,3n):54-Xe-133g
54-Xe-135
Radionuclide Production Cross Section
-55.76 To 0.133 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 14.493 MeV
n-Xe135m.jeff3.3 Threshold 14.497 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
54-Xe-135

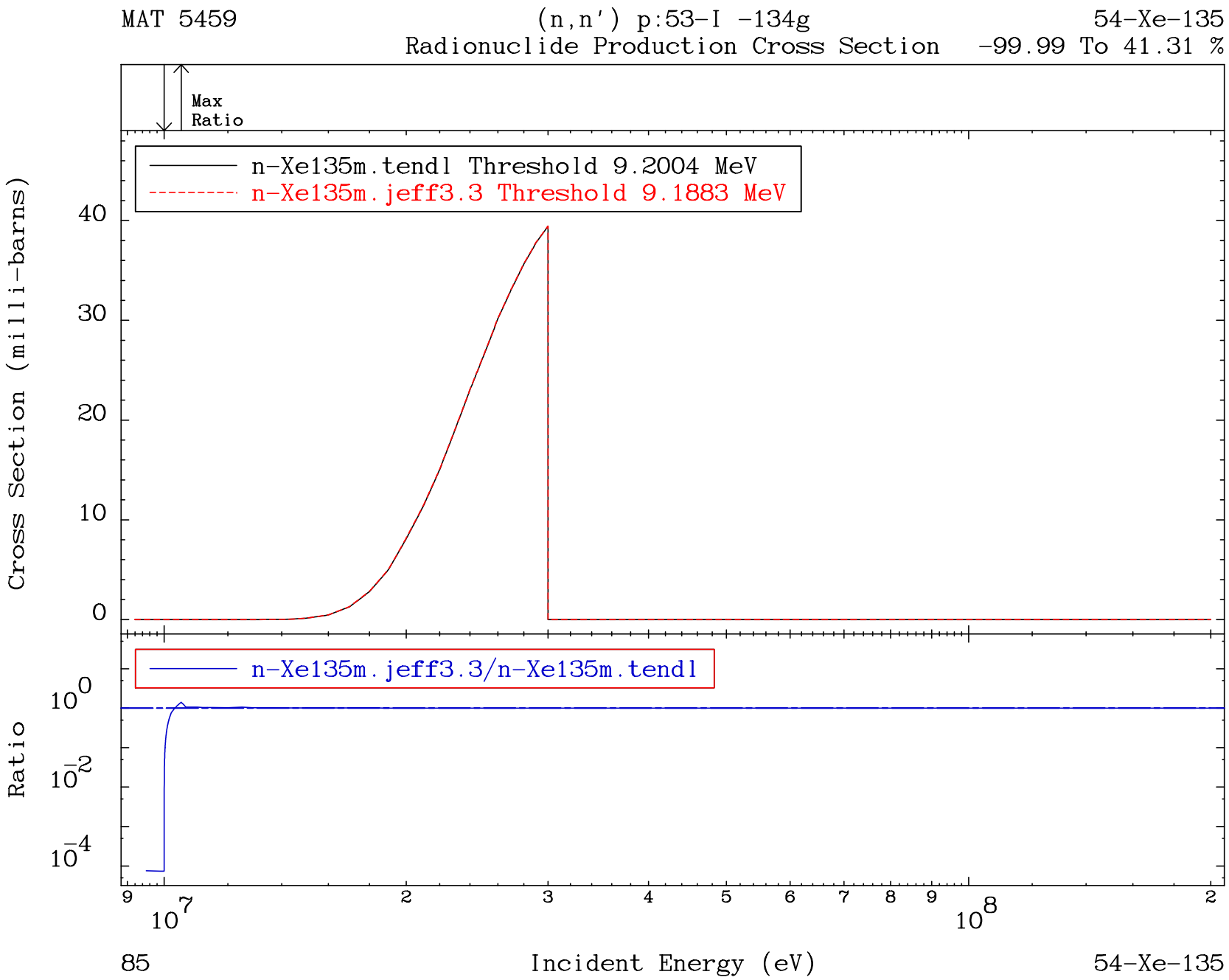

MAT 5459
(n,3n):54-Xe-133m1
54-Xe-135
Radionuclide Production Cross Section
-6.601 To 0.109 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 14.728 MeV
n-Xe135m.jeff3.3 Threshold 14.732 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.96
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
54-Xe-135

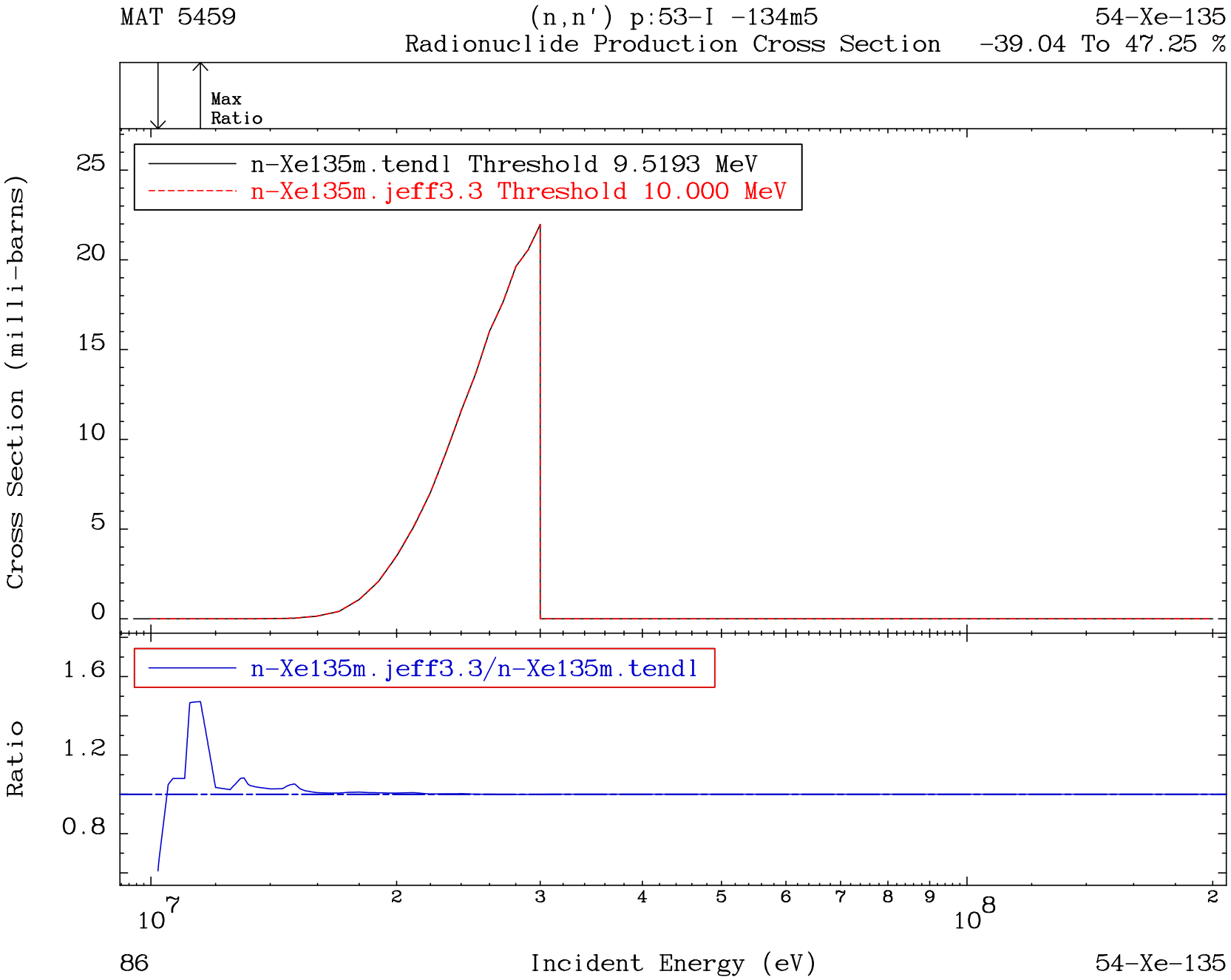

MAT 5459
(n,n') α:52-Te-131g
54-Xe-135
Radionuclide Production Cross Section -93.89 To 9999. %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 3.1237 MeV
n-Xe135m.jeff3.3 Threshold 3.1273 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
81
Incident Energy (eV)
54-Xe-135

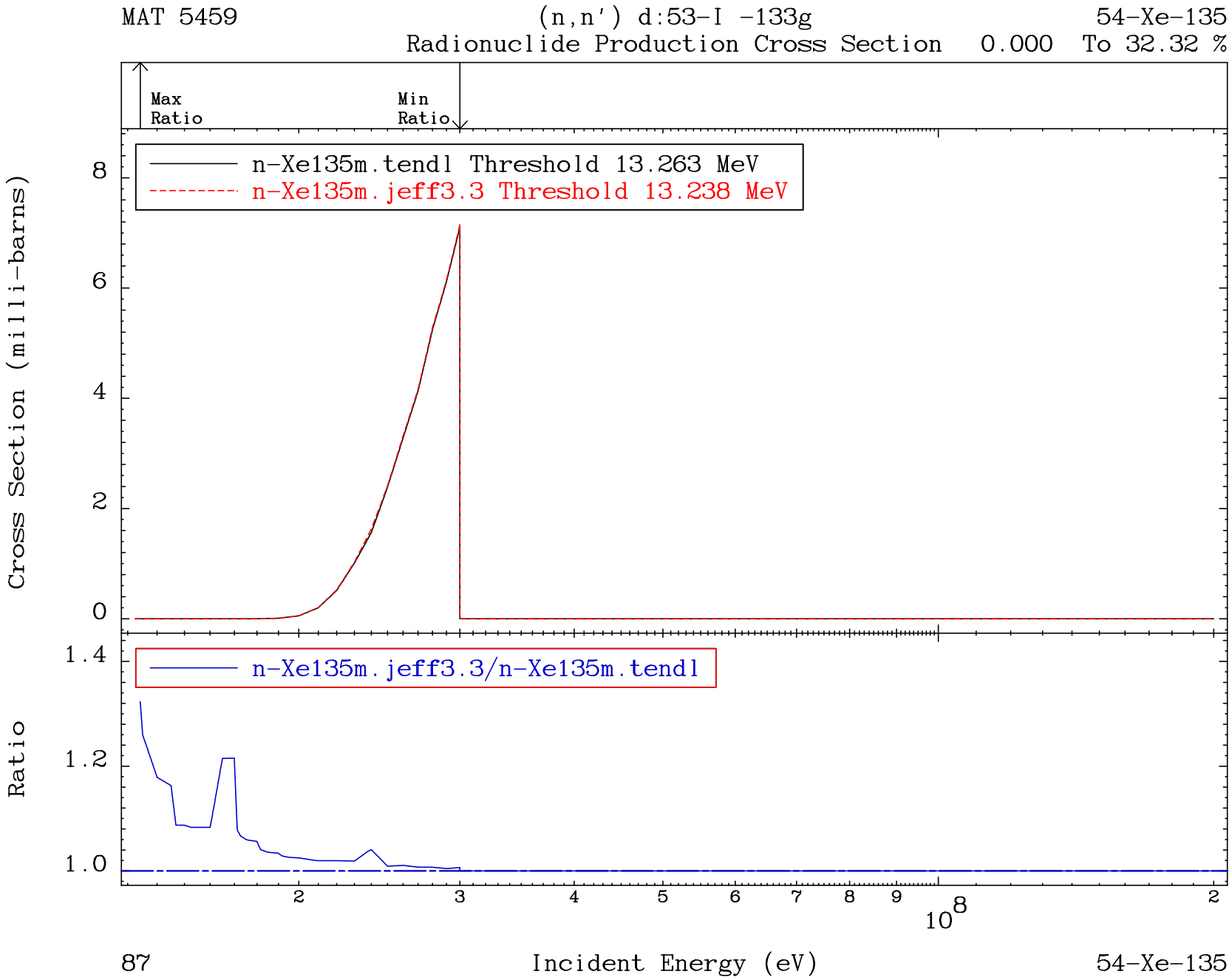

MAT 5459
(n,n') α:52-Te-131m1
54-Xe-135
Radionuclide Production Cross Section -11.32 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 7.2000 MeV
n-Xe135m.jeff3.3 Threshold 3.3110 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^1
10^2
10^3
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
82
Incident Energy (eV)
54-Xe-135

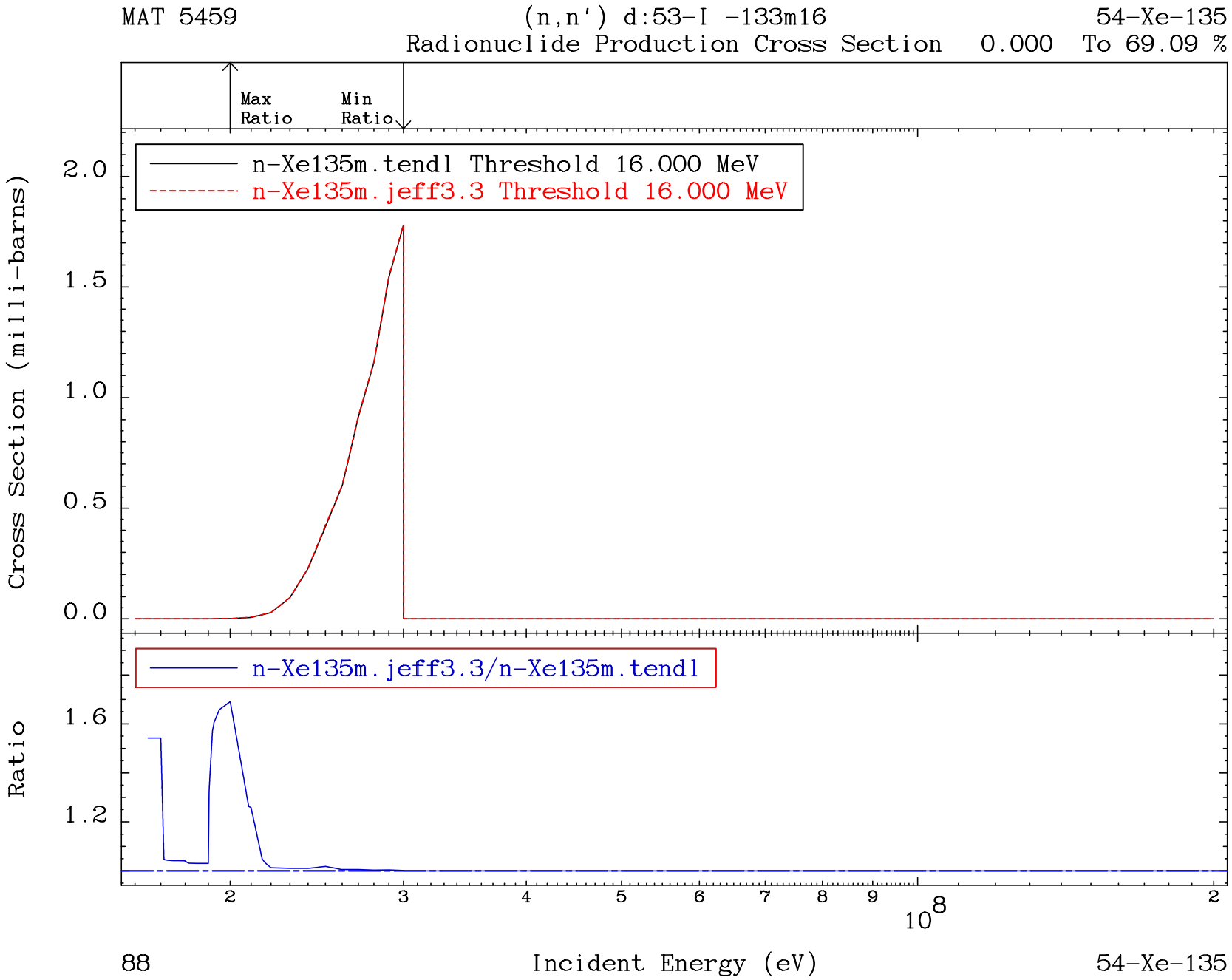

MAT 5459
(n,3n) α:52-Te-129g
54-Xe-135
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 17.580 MeV
n-Xe135m.jeff3.3 Threshold 17.583 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
54-Xe-135

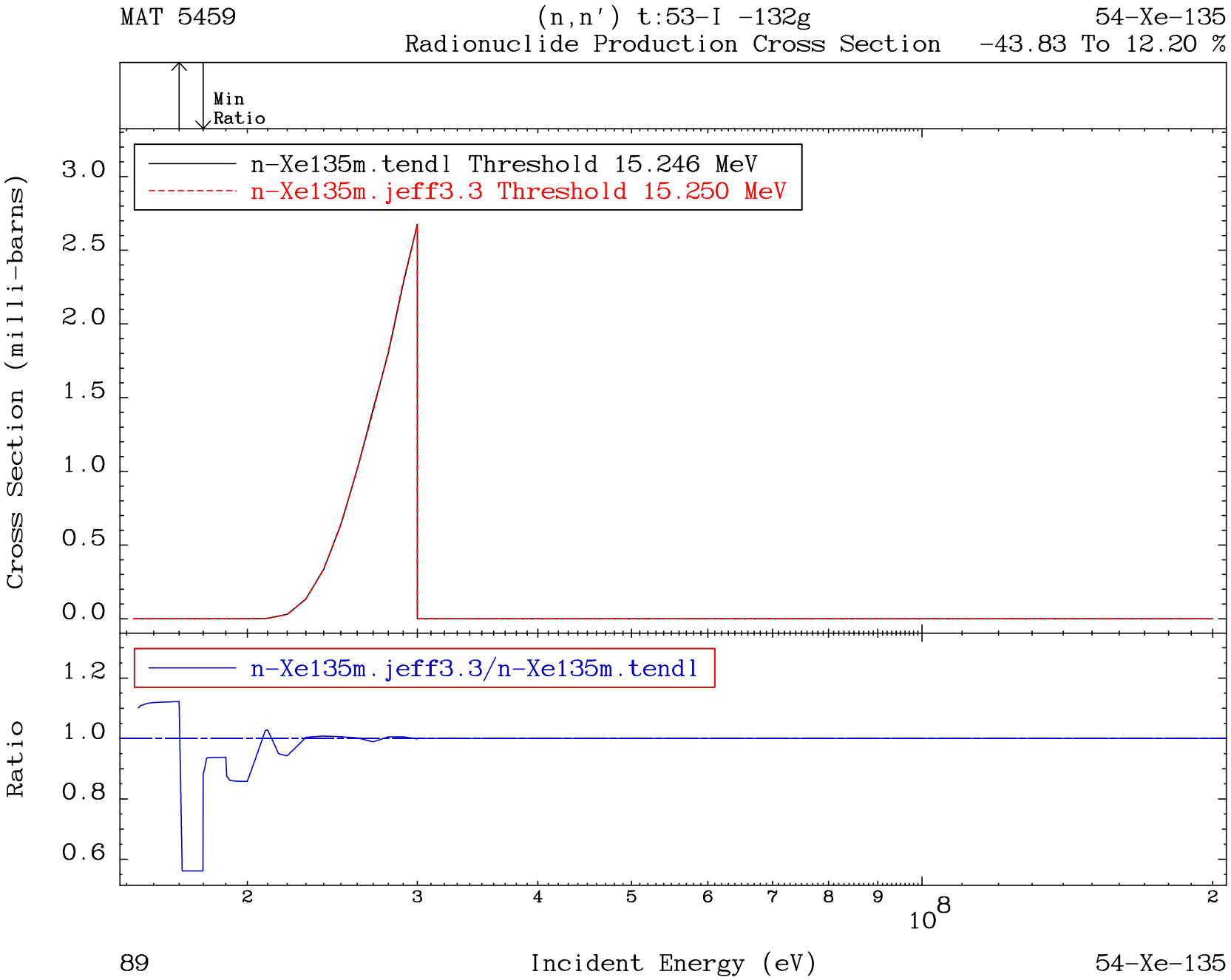

MAT 5459
(n,3n) α:52-Te-129m1
54-Xe-135
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 17.686 MeV
n-Xe135m.jeff3.3 Threshold 17.690 MeV
Cross Section (micro-barns)
0
2
4
6
8
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^1
10^2
10^3
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
54-Xe-135

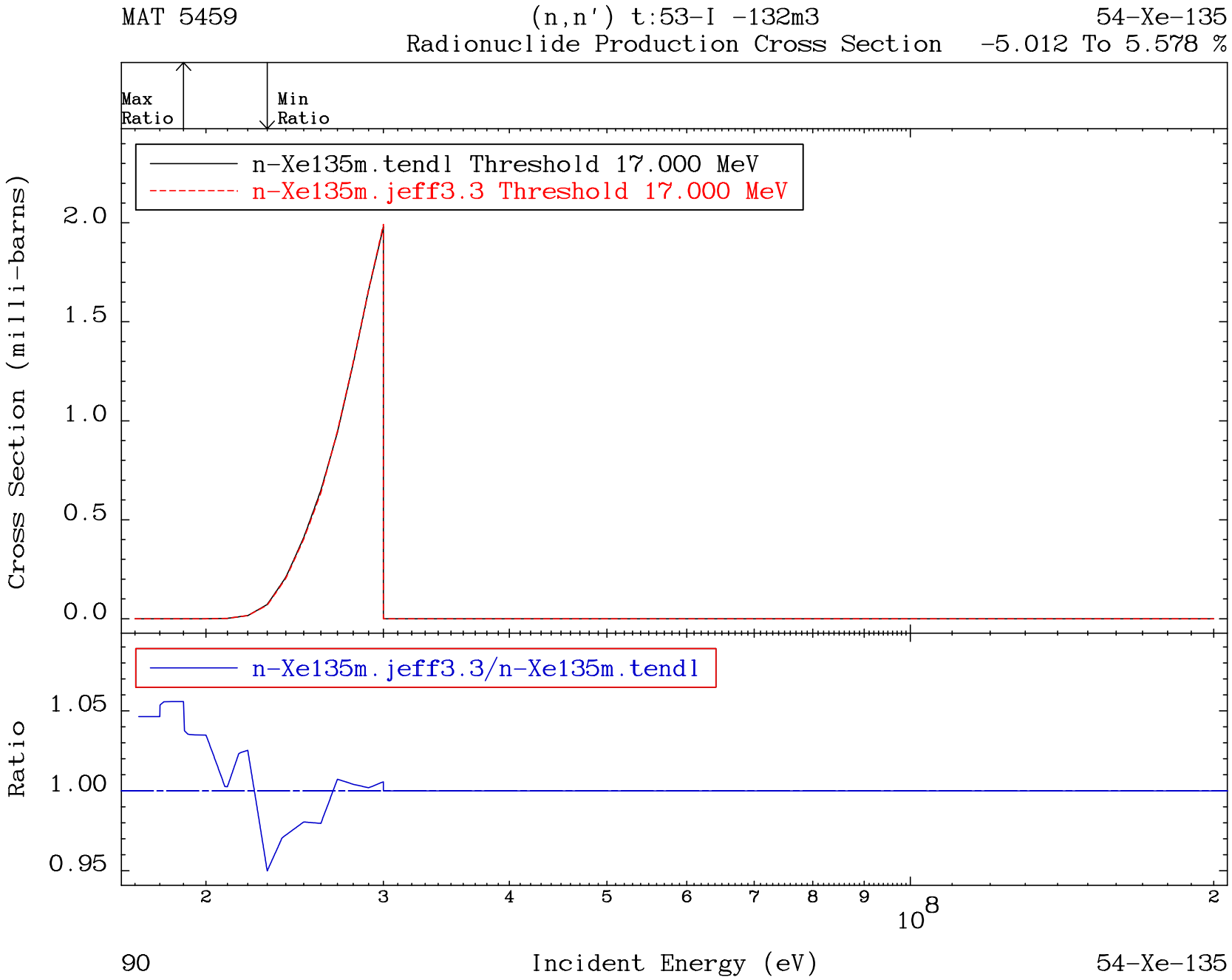

MAT 5459
(n,n') p:53-I -134g
54-Xe-135
Radionuclide Production Cross Section -99.99 To 41.31 %
Max Ratio
n-Xe135m.tendl Threshold 9.2004 MeV
n-Xe135m.jeff3.3 Threshold 9.1883 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
10^0
10^-2
10^-4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
54-Xe-135

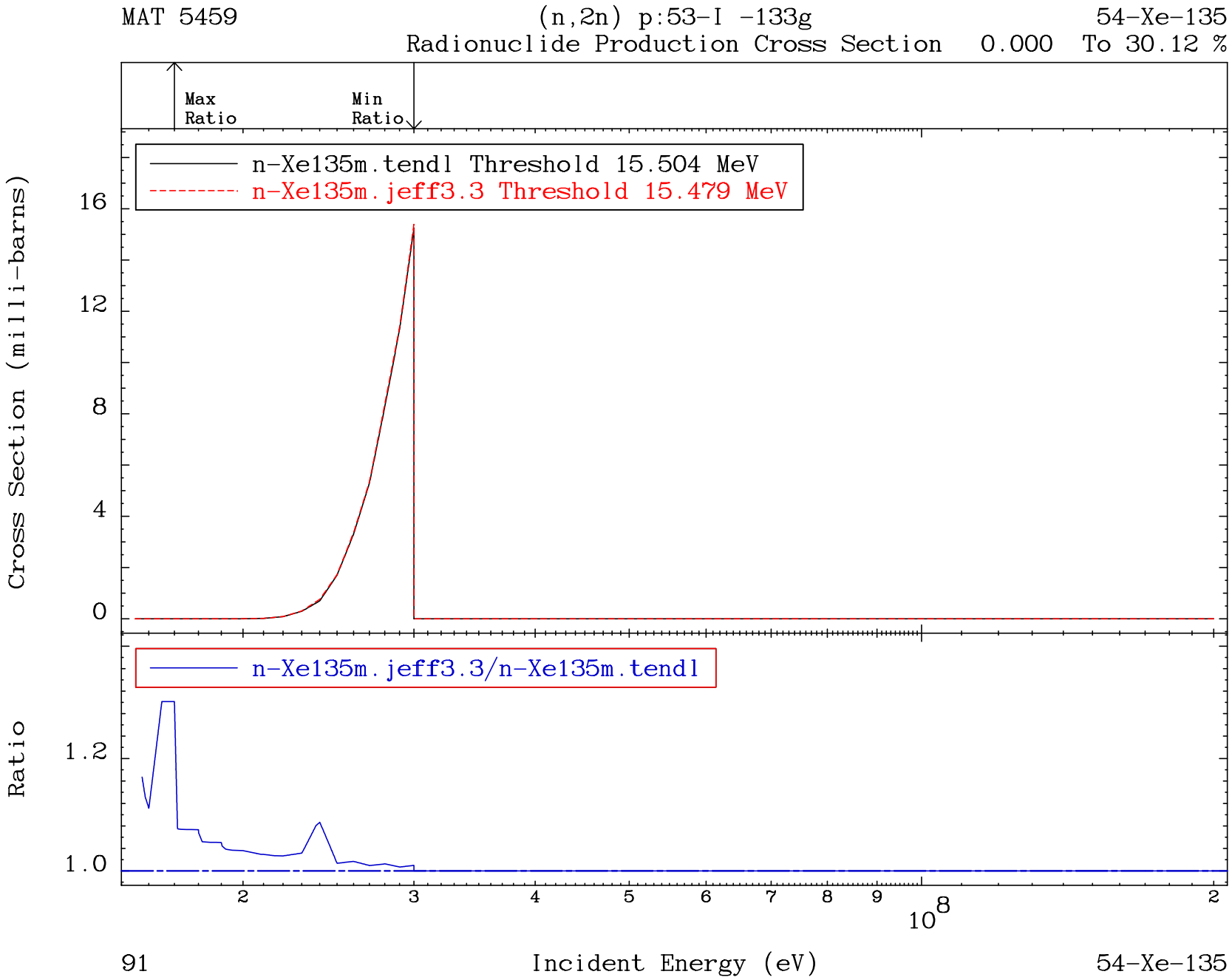

MAT 5459
(n,n') p:53-I -134m5
54-Xe-135
Radionuclide Production Cross Section -39.04 To 47.25 %
Max
Ratio
n-Xe135m.tendl Threshold 9.5193 MeV
n-Xe135m.jeff3.3 Threshold 10.000 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.6
1.2
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
54-Xe-135

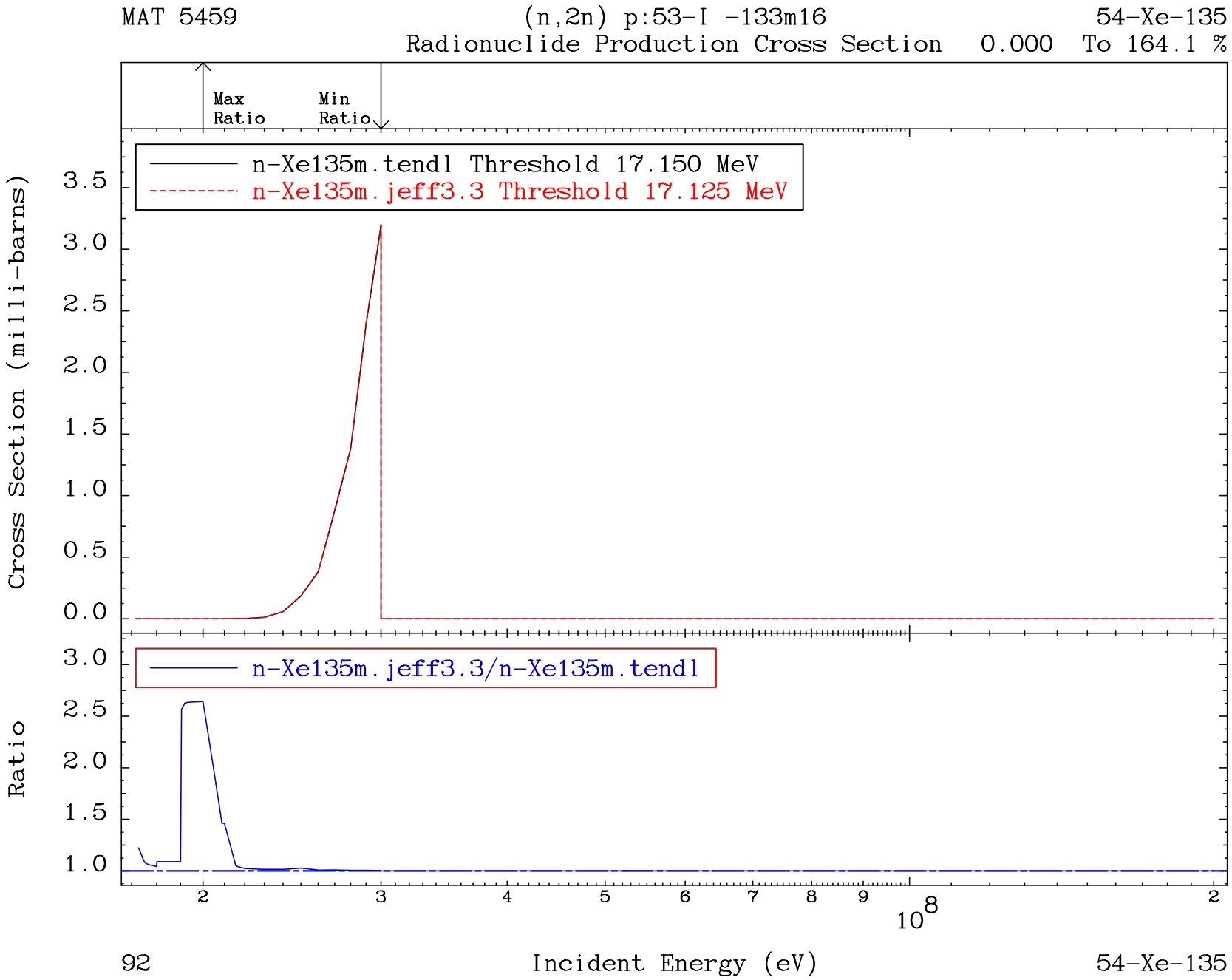

MAT 5459
(n,n') d:53-I -133g
54-Xe-135
Radionuclide Production Cross Section 0.000 To 32.32 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 13.263 MeV
n-Xe135m.jeff3.3 Threshold 13.238 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
1.2
1.4
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
54-Xe-135

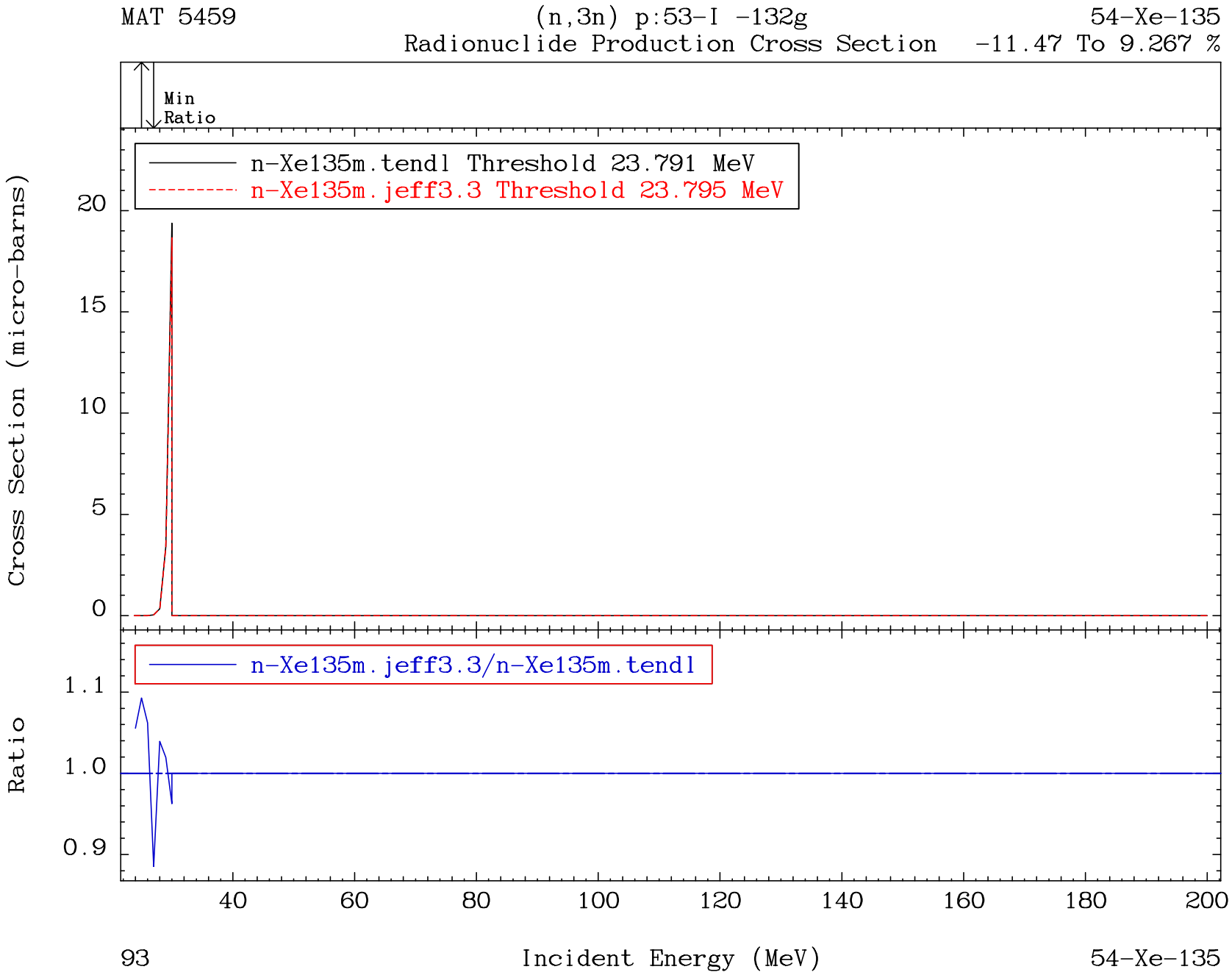

MAT 5459
(n,n') d:53-I -133m16
54-Xe-135
Radionuclide Production Cross Section 0.000 To 69.09 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 16.000 MeV
n-Xe135m.jeff3.3 Threshold 16.000 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
54-Xe-135

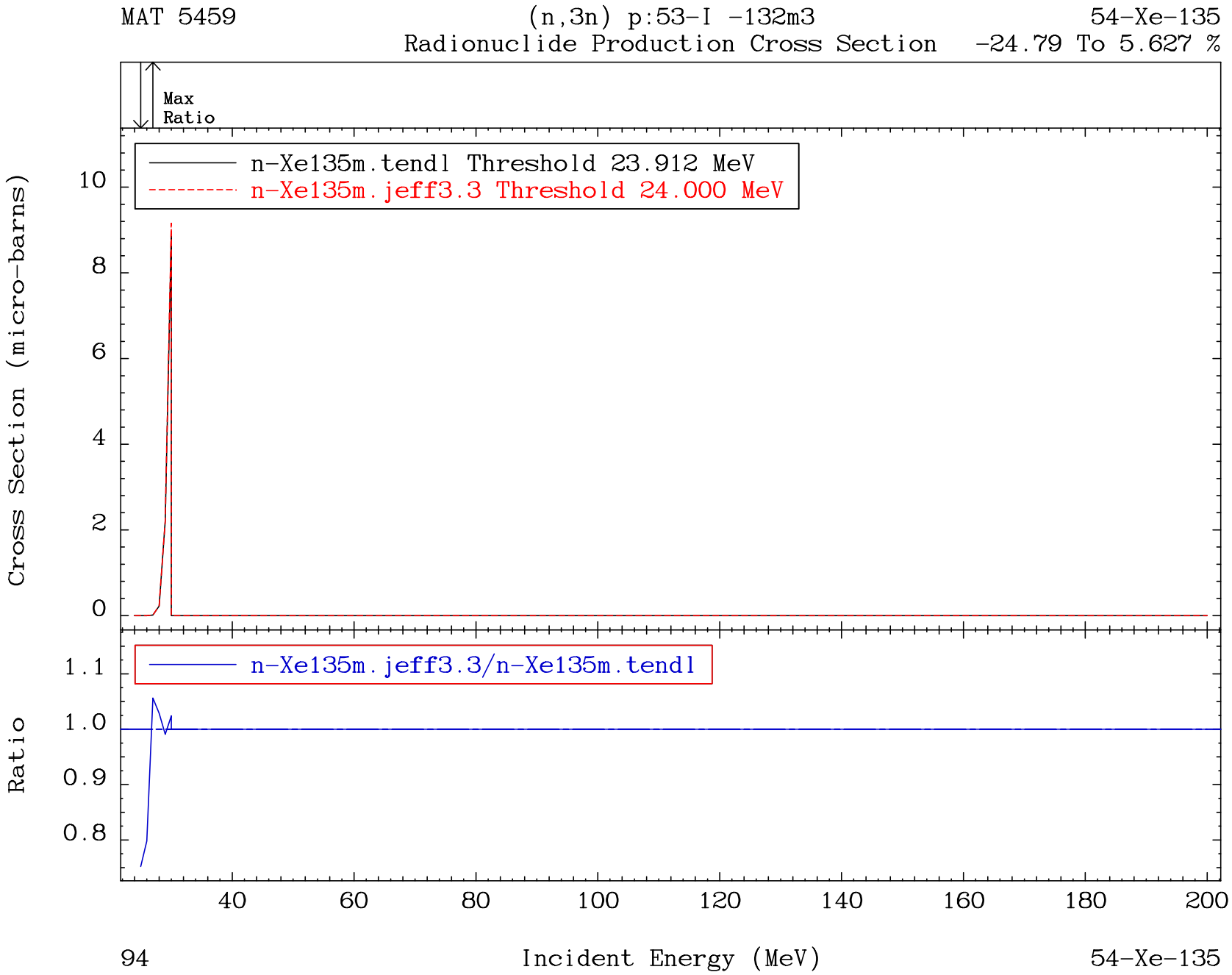

MAT 5459
(n,n') t:53-I -132g
54-Xe-135
Radionuclide Production Cross Section -43.83 To 12.20 %
Min Ratio
n-Xe135m.tendl Threshold 15.246 MeV
n-Xe135m.jeff3.3 Threshold 15.250 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.2
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
54-Xe-135

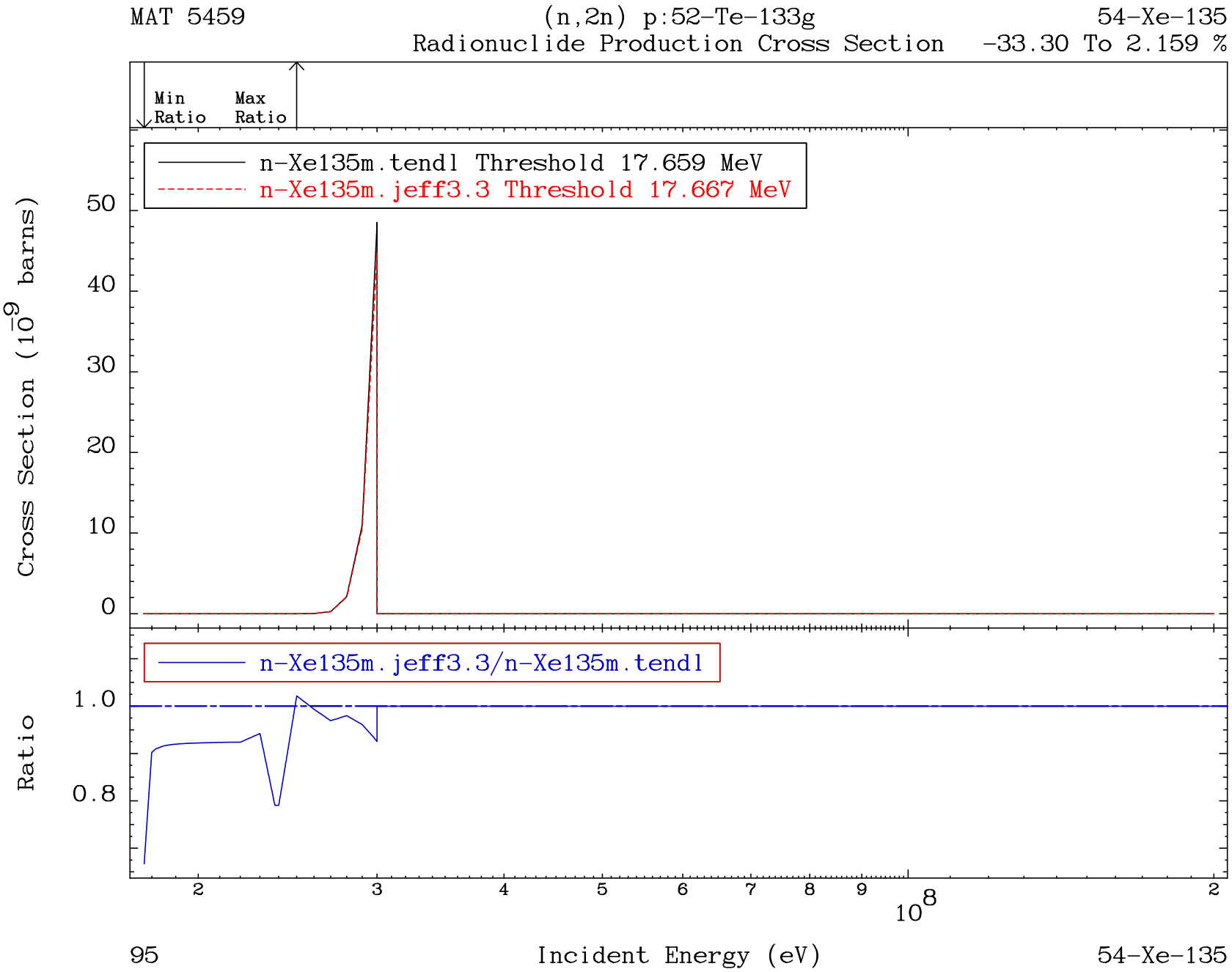

MAT 5459
(n,n') t:53-I -132m3
54-Xe-135
Radionuclide Production Cross Section -5.012 To 5.578 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 17.000 MeV
n-Xe135m.jeff3.3 Threshold 17.000 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
54-Xe-135

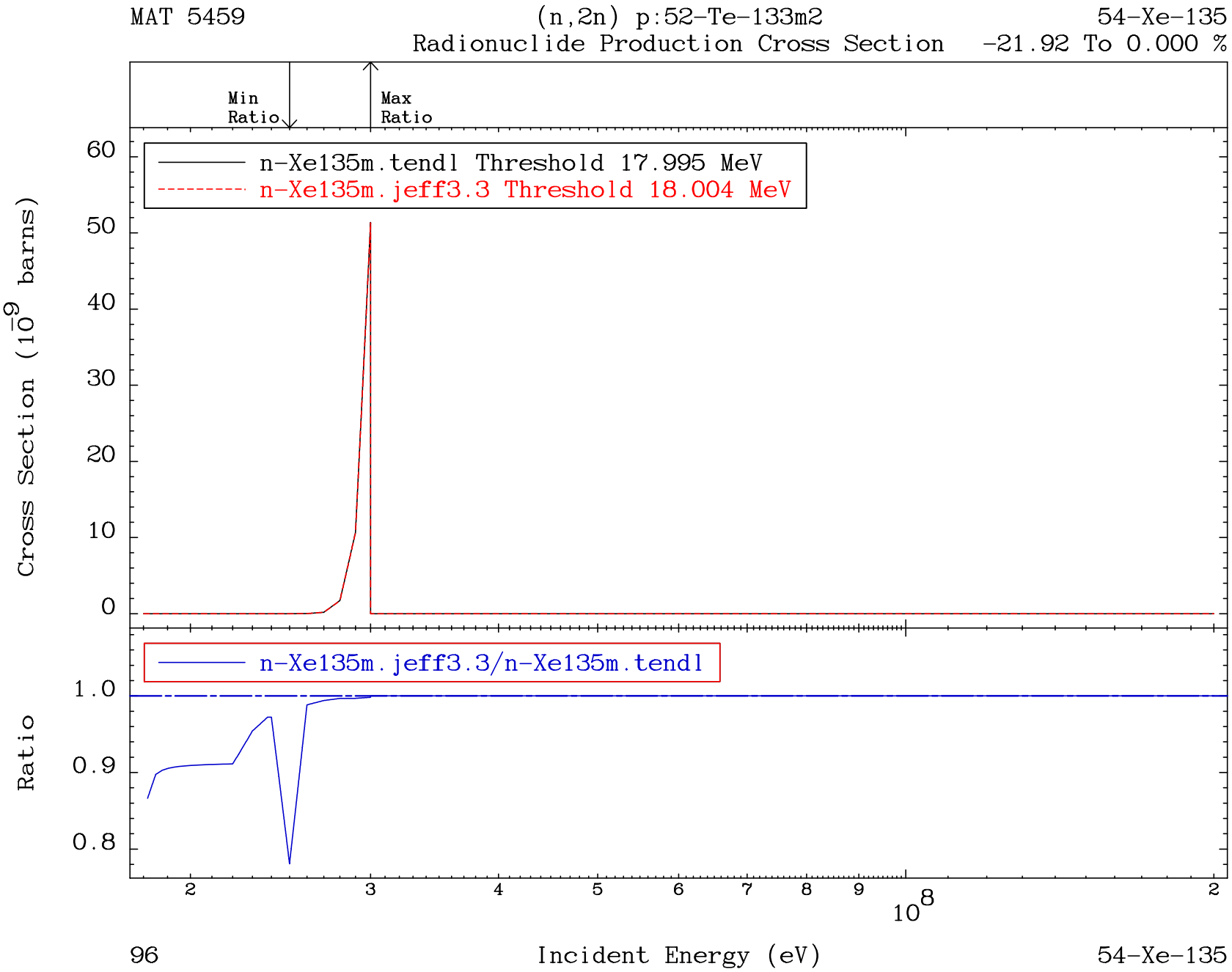

MAT 5459
(n,2n) p:53-I -133g
54-Xe-135
Radionuclide Production Cross Section 0.000 To 30.12 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 15.504 MeV
n-Xe135m.jeff3.3 Threshold 15.479 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
54-Xe-135

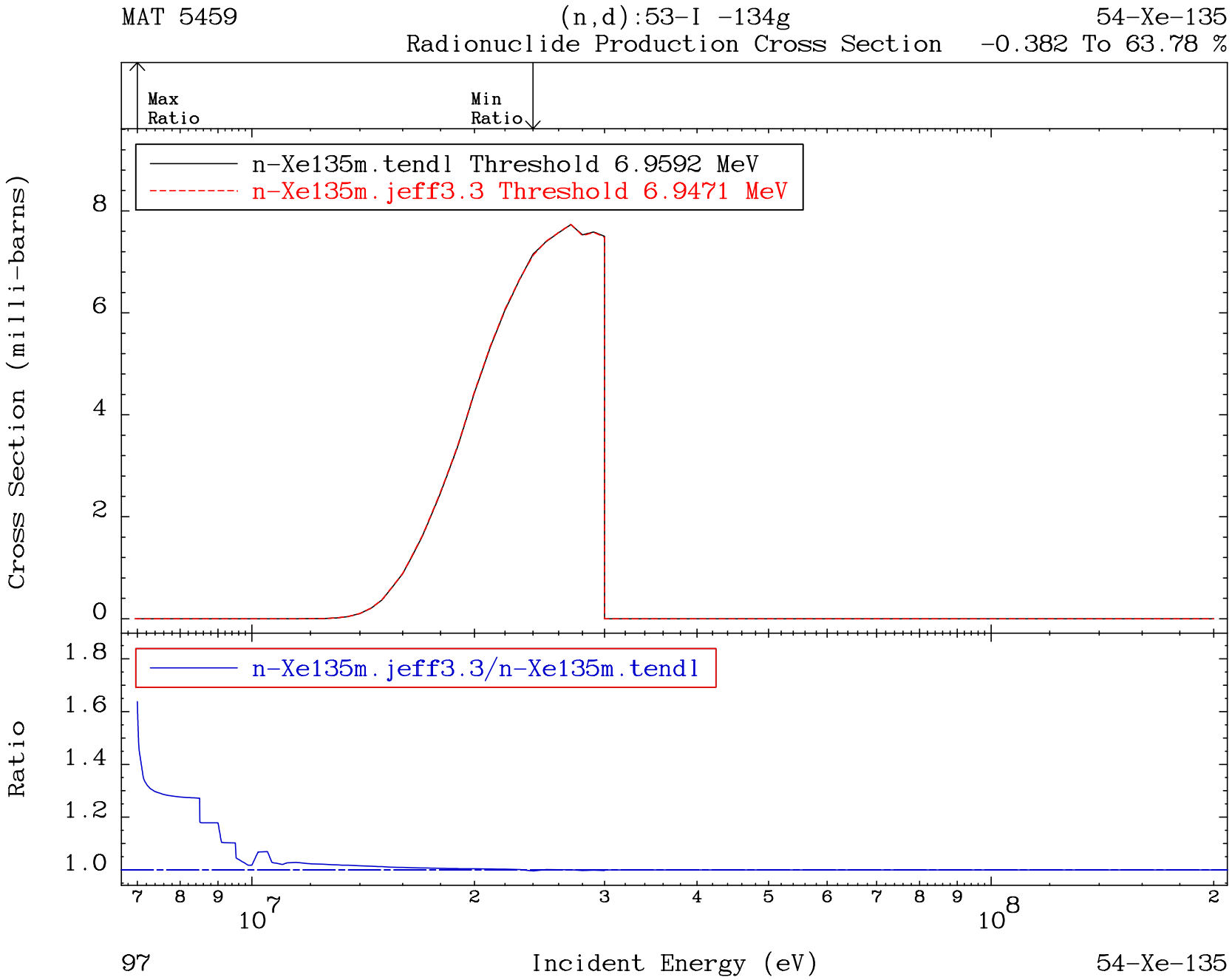

MAT 5459
(n,2n) p:53-I -133m16
54-Xe-135
Radionuclide Production Cross Section 0.000 To 164.1 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 17.150 MeV
n-Xe135m.jeff3.3 Threshold 17.125 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
3.0
2.5
2.0
1.5
1.0
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
54-Xe-135

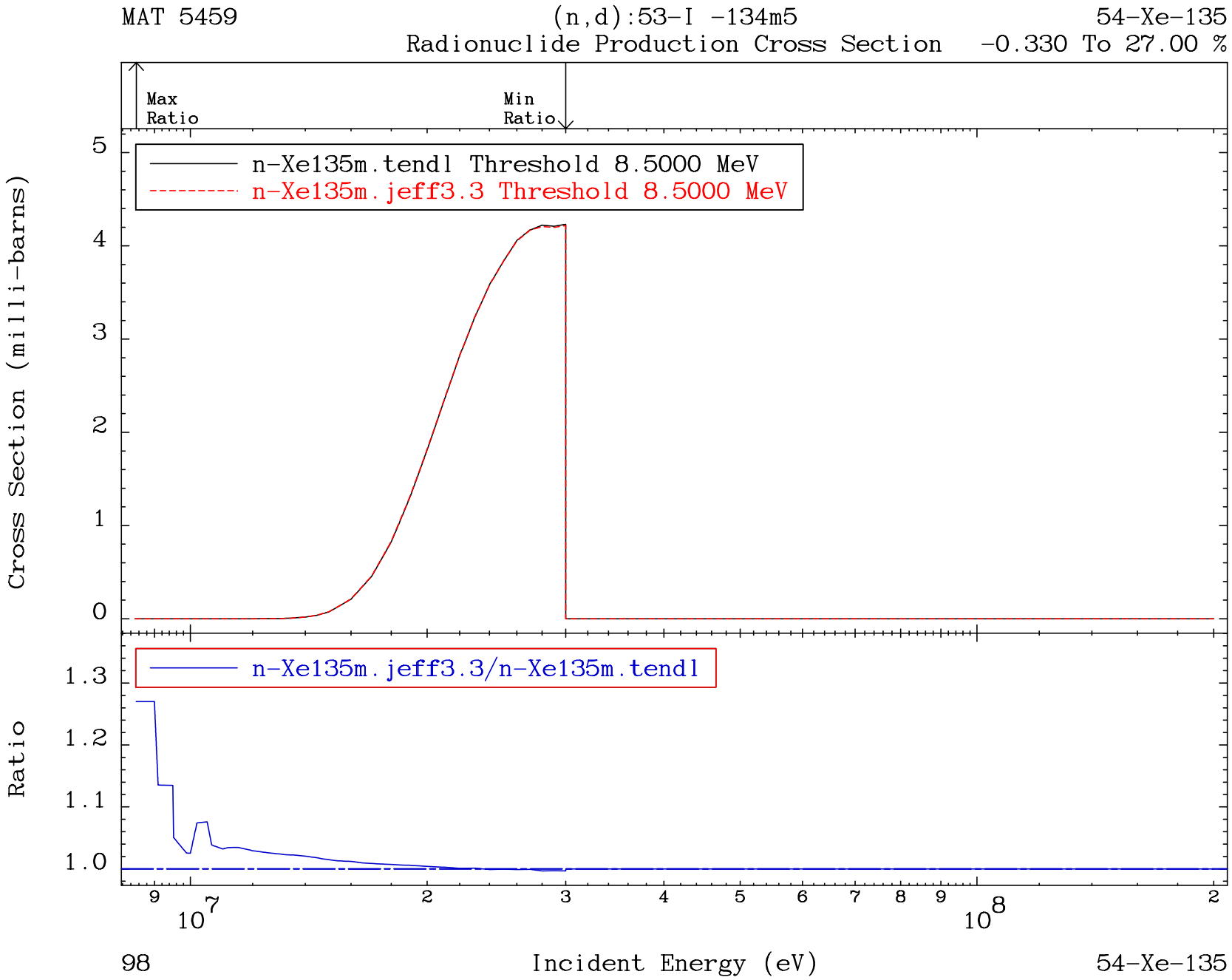

MAT 5459
(n,3n) p:53-I -132g
54-Xe-135
Radionuclide Production Cross Section -11.47 To 9.267 %
Min
Ratio
n-Xe135m.tendl Threshold 23.791 MeV
n-Xe135m.jeff3.3 Threshold 23.795 MeV
Cross Section (micro-barns)
20
15
10
5
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.1
1.0
0.9
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
54-Xe-135

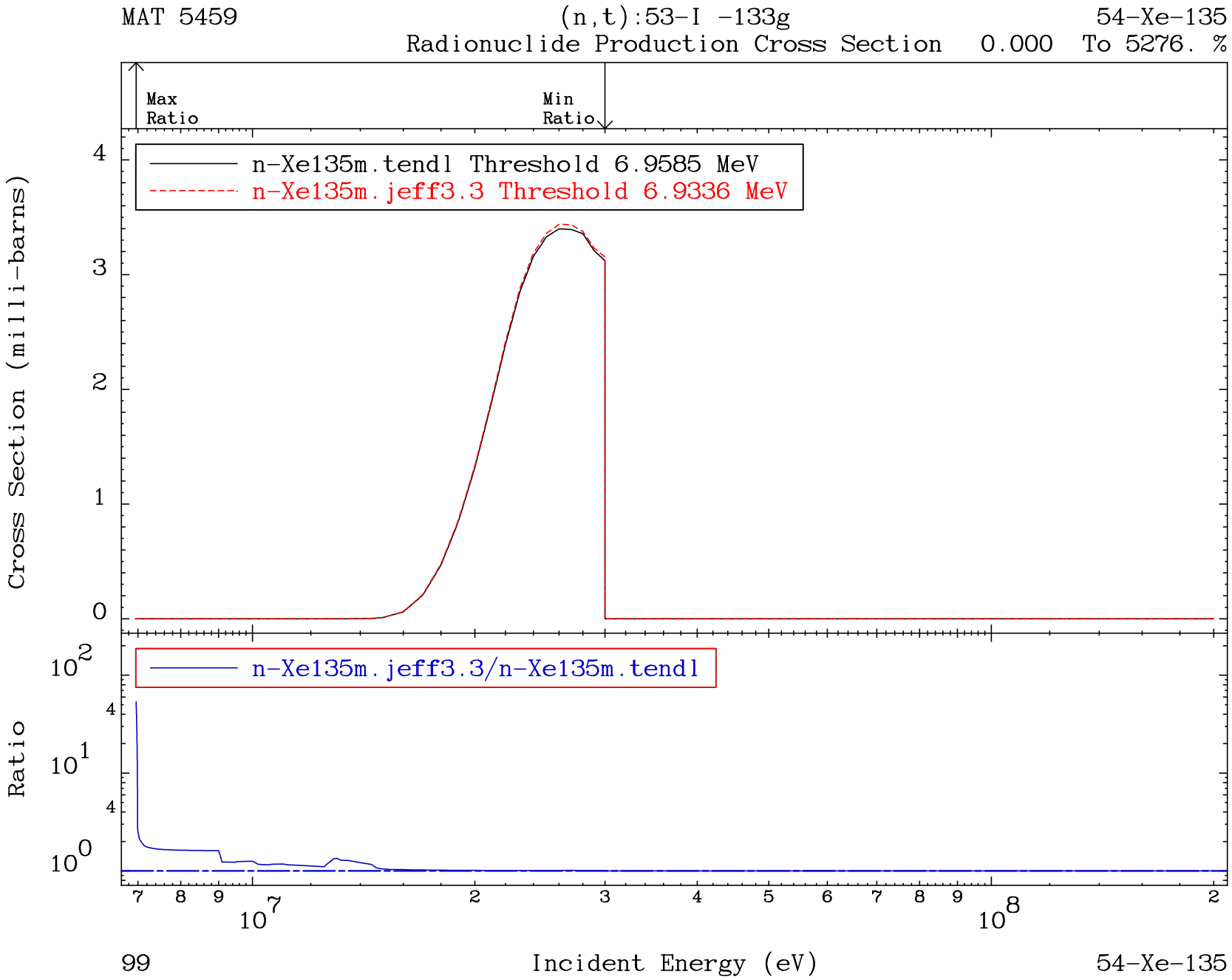

MAT 5459
(n,3n) p:53-I -132m3
54-Xe-135
Radionuclide Production Cross Section -24.79 To 5.627 %
Max
Ratio
n-Xe135m.tendl Threshold 23.912 MeV
n-Xe135m.jeff3.3 Threshold 24.000 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.1
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
94
Incident Energy (MeV)
54-Xe-135

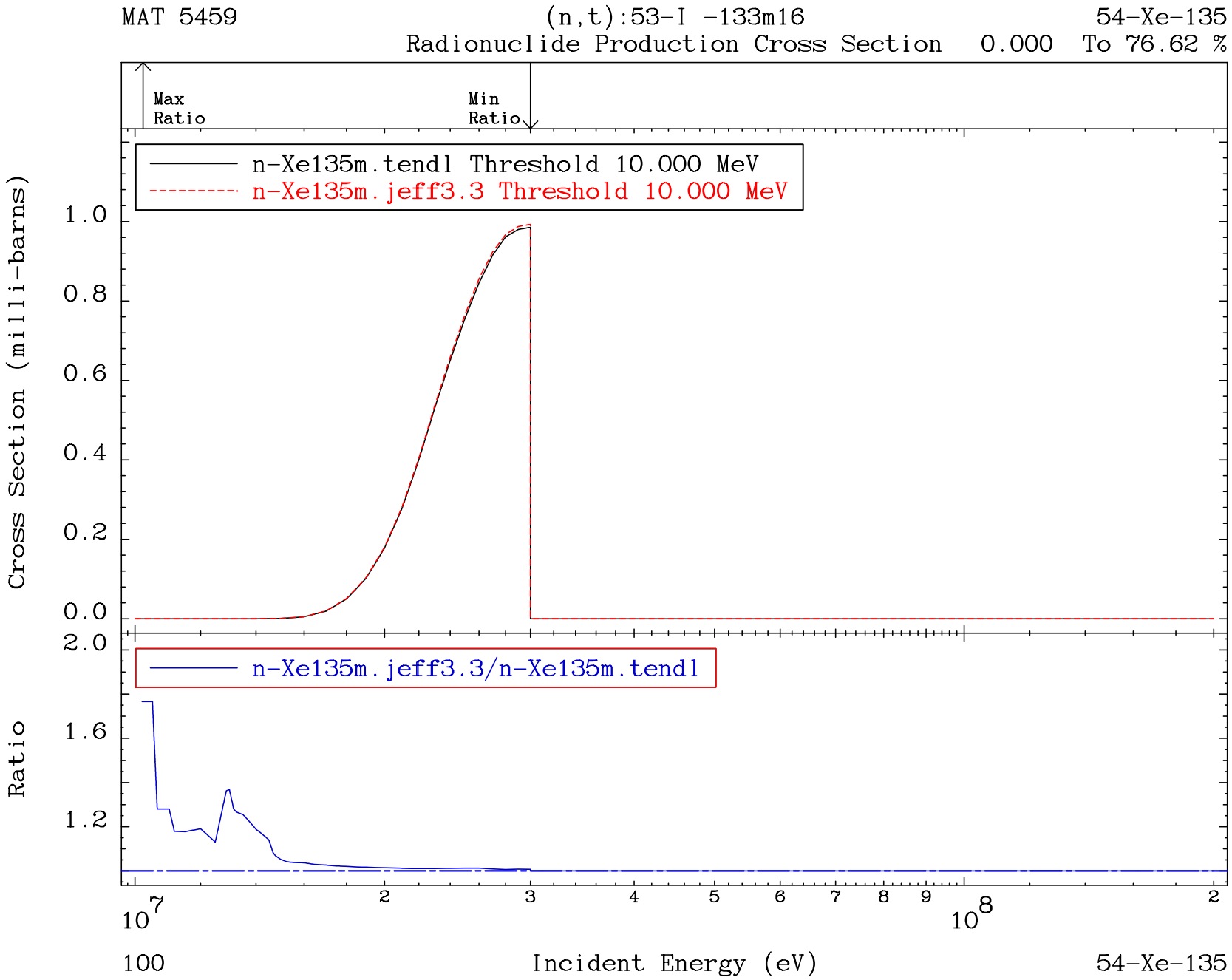

MAT 5459
(n,2n) p:52-Te-133g
54-Xe-135
Radionuclide Production Cross Section
-33.30 To 2.159 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 17.659 MeV
n-Xe135m.jeff3.3 Threshold 17.667 MeV
Cross Section (10^{-9} barns)
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
54-Xe-135

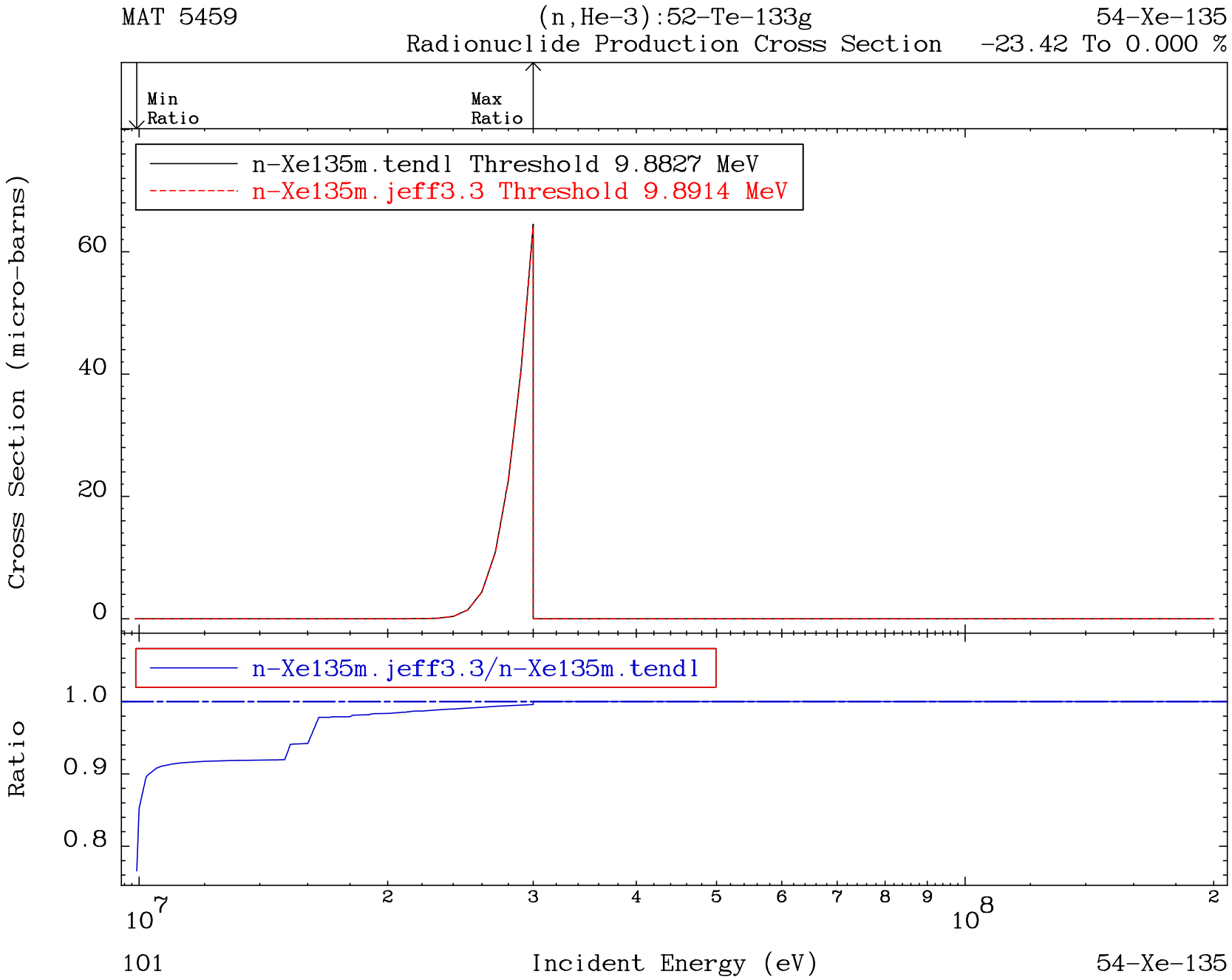

MAT 5459
(n,2n) p:52-Te-133m2
54-Xe-135
Radionuclide Production Cross Section
-21.92 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 17.995 MeV
n-Xe135m.jeff3.3 Threshold 18.004 MeV
Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
54-Xe-135

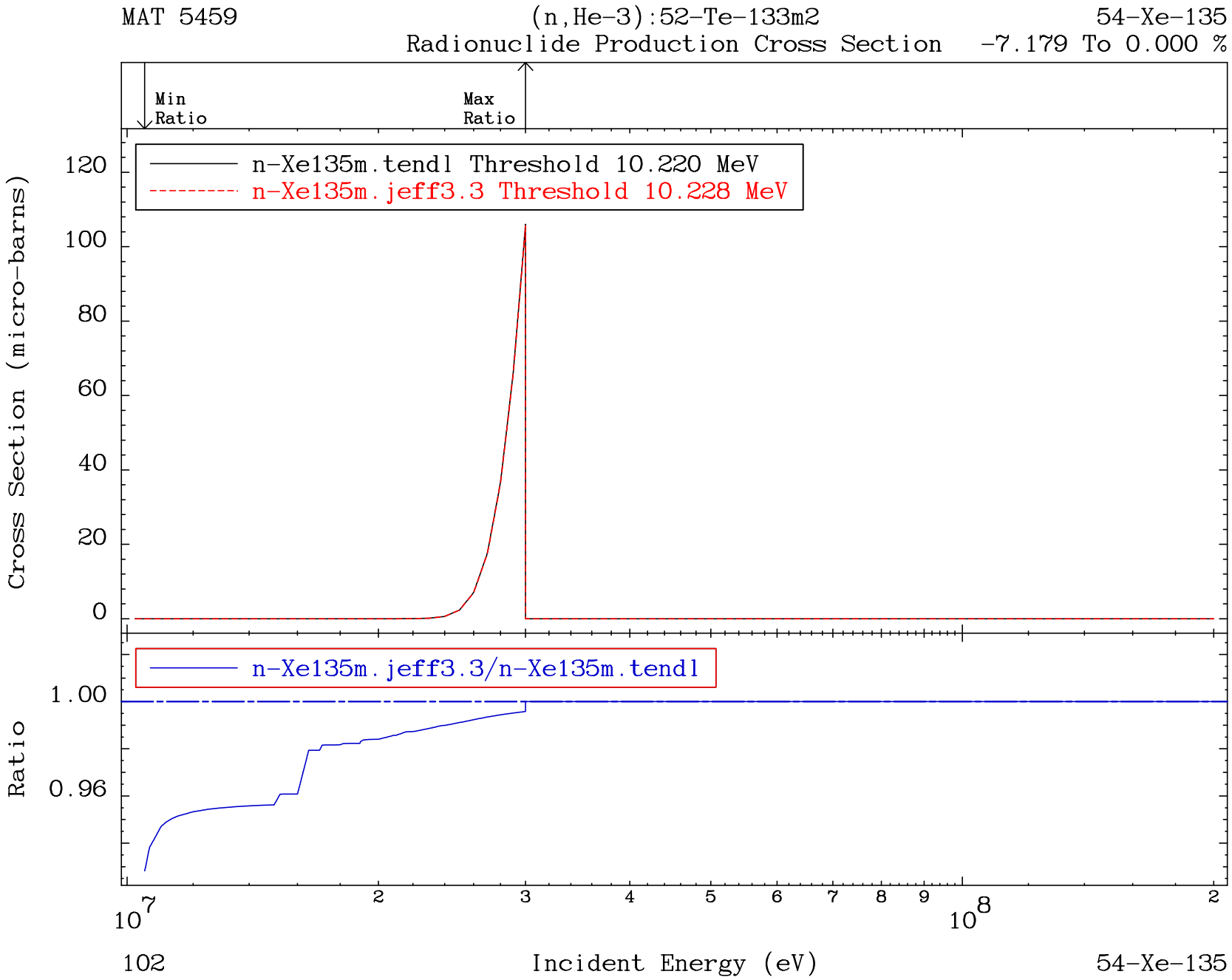

MAT 5459
(n,d):53-I -134g
54-Xe-135
Radionuclide Production Cross Section -0.382 To 63.78 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 6.9592 MeV
n-Xe135m.jeff3.3 Threshold 6.9471 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
1.2
1.4
1.6
1.8
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
54-Xe-135

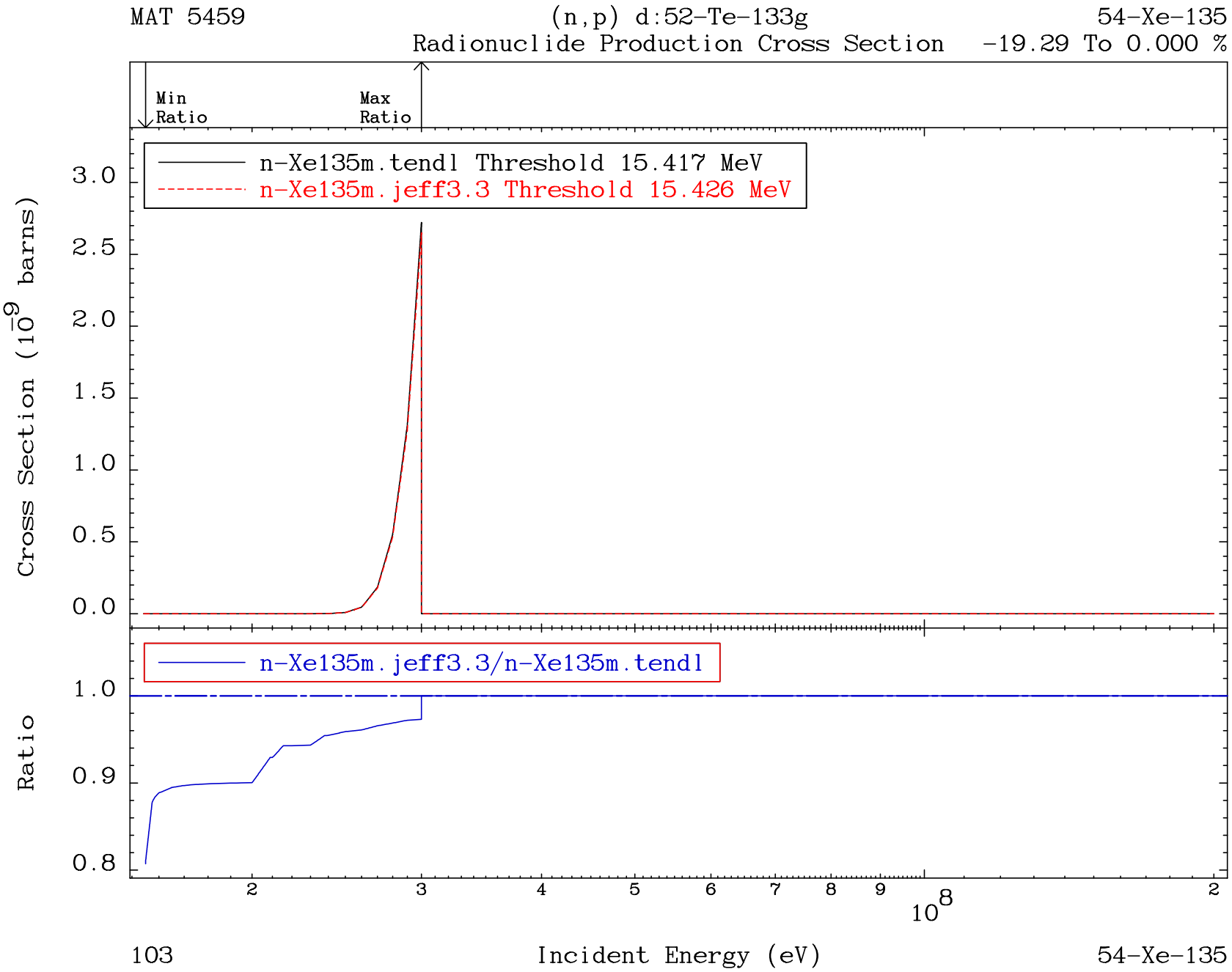

MAT 5459
(n,d):53-I -134m5
54-Xe-135
Radionuclide Production Cross Section -0.330 To 27.00 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 8.5000 MeV
n-Xe135m.jeff3.3 Threshold 8.5000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
1.1
1.2
1.3
9
10^7
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
54-Xe-135

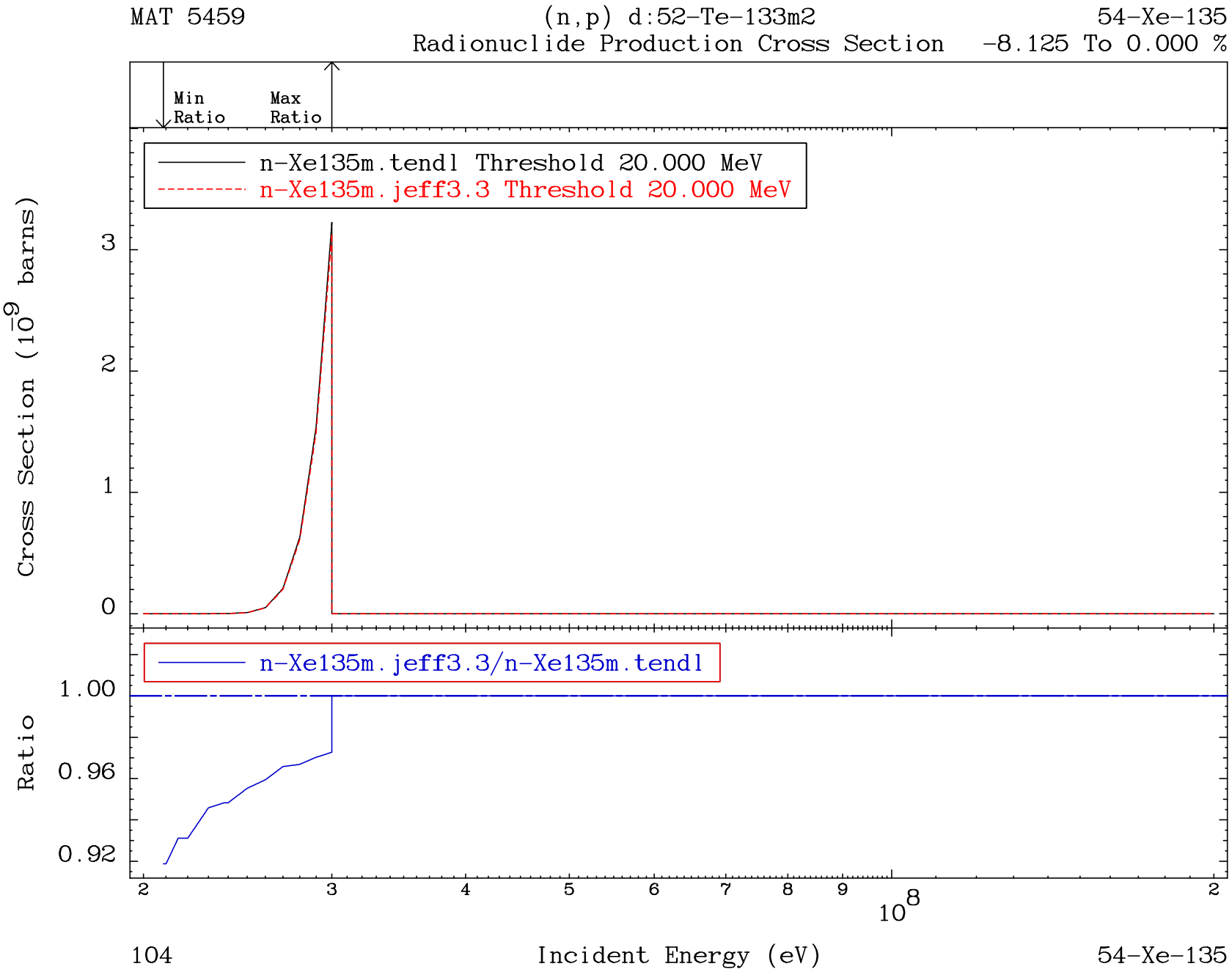

MAT 5459
(n,t):53-I -133g
54-Xe-135
Radionuclide Production Cross Section 0.000 To 5276. %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 6.9585 MeV
n-Xe135m.jeff3.3 Threshold 6.9336 MeV
Cross Section (milli-barns)
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
Incident Energy (eV)
99
54-Xe-135


MAT 5459
(n,t):53-I -133m16
54-Xe-135
Radionuclide Production Cross Section 0.000 To 76.62 %
Max Ratio
Min Ratio
n-Xe135m.tendl Threshold 10.000 MeV
n-Xe135m.jeff3.3 Threshold 10.000 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.6
1.2
Ratio
n-Xe135m.jeff3.3/n-Xe135m.tendl
10^7
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
54-Xe-135


MAT 5459
(n,He-3):52-Te-133g
54-Xe-135
Radionuclide Production Cross Section
-23.42 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 9.8827 MeV
n-Xe135m.jeff3.3 Threshold 9.8914 MeV
Cross Section (micro-barns)
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
54-Xe-135


MAT 5459
(n,He-3):52-Te-133m2
54-Xe-135
Radionuclide Production Cross Section -7.179 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 10.220 MeV
n-Xe135m.jeff3.3 Threshold 10.228 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
54-Xe-135


MAT 5459
(n,p) d:52-Te-133g
54-Xe-135
Radionuclide Production Cross Section -19.29 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 15.417 MeV
n-Xe135m.jeff3.3 Threshold 15.426 MeV
Cross Section (10^{-9} barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
54-Xe-135


MAT 5459
(n,p) d:52-Te-133m2
54-Xe-135
Radionuclide Production Cross Section
-8.125 To 0.000 %
Min Ratio
Max Ratio
n-Xe135m.tendl Threshold 20.000 MeV
n-Xe135m.jeff3.3 Threshold 20.000 MeV
Cross Section (10^{-9} barns)
0
1
2
3
n-Xe135m.jeff3.3/n-Xe135m.tendl
Ratio
1.00
0.96
0.92
2
3
4
5
6
7
8
9
10^{8}
2
104
Incident Energy (eV)
54-Xe-135