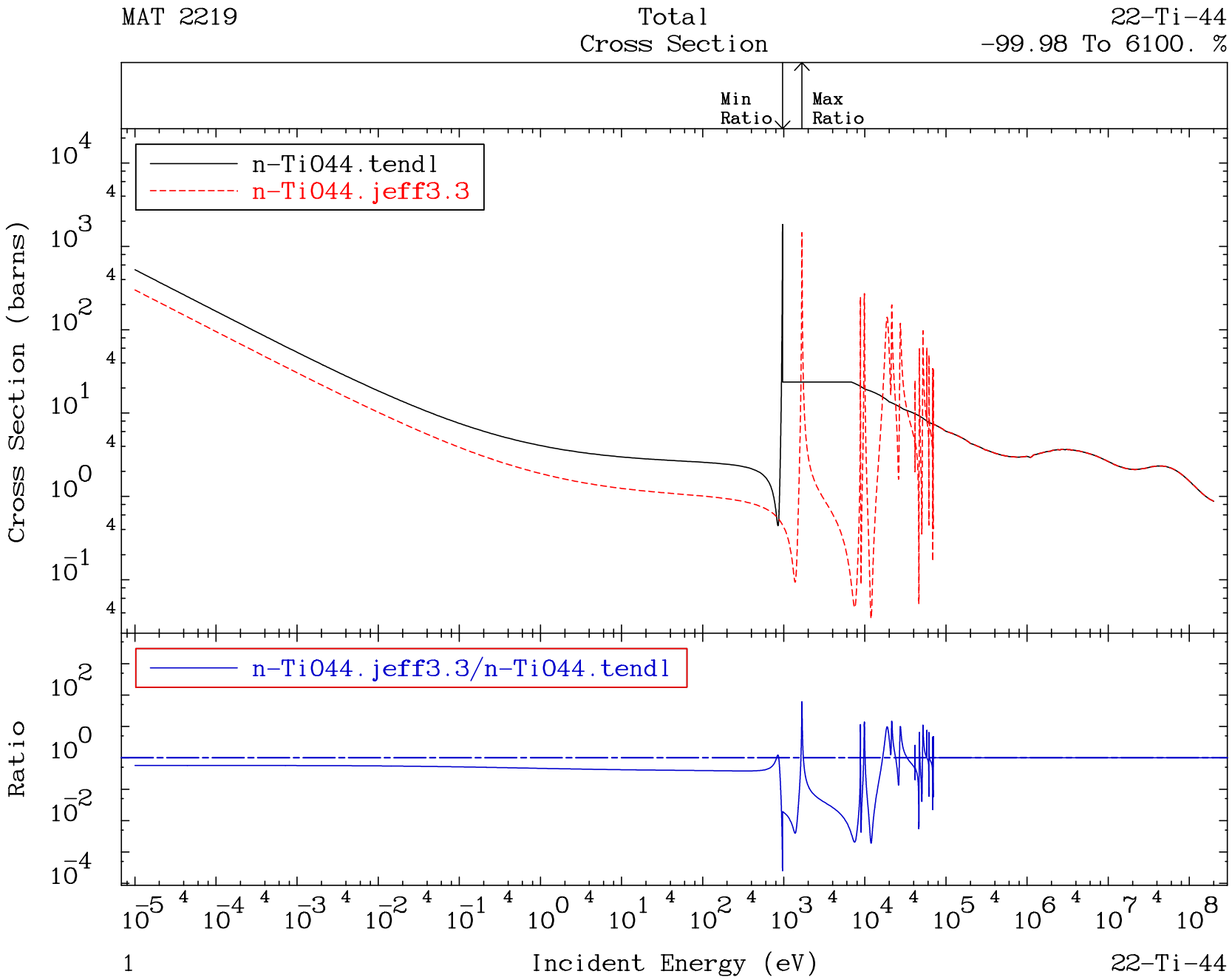
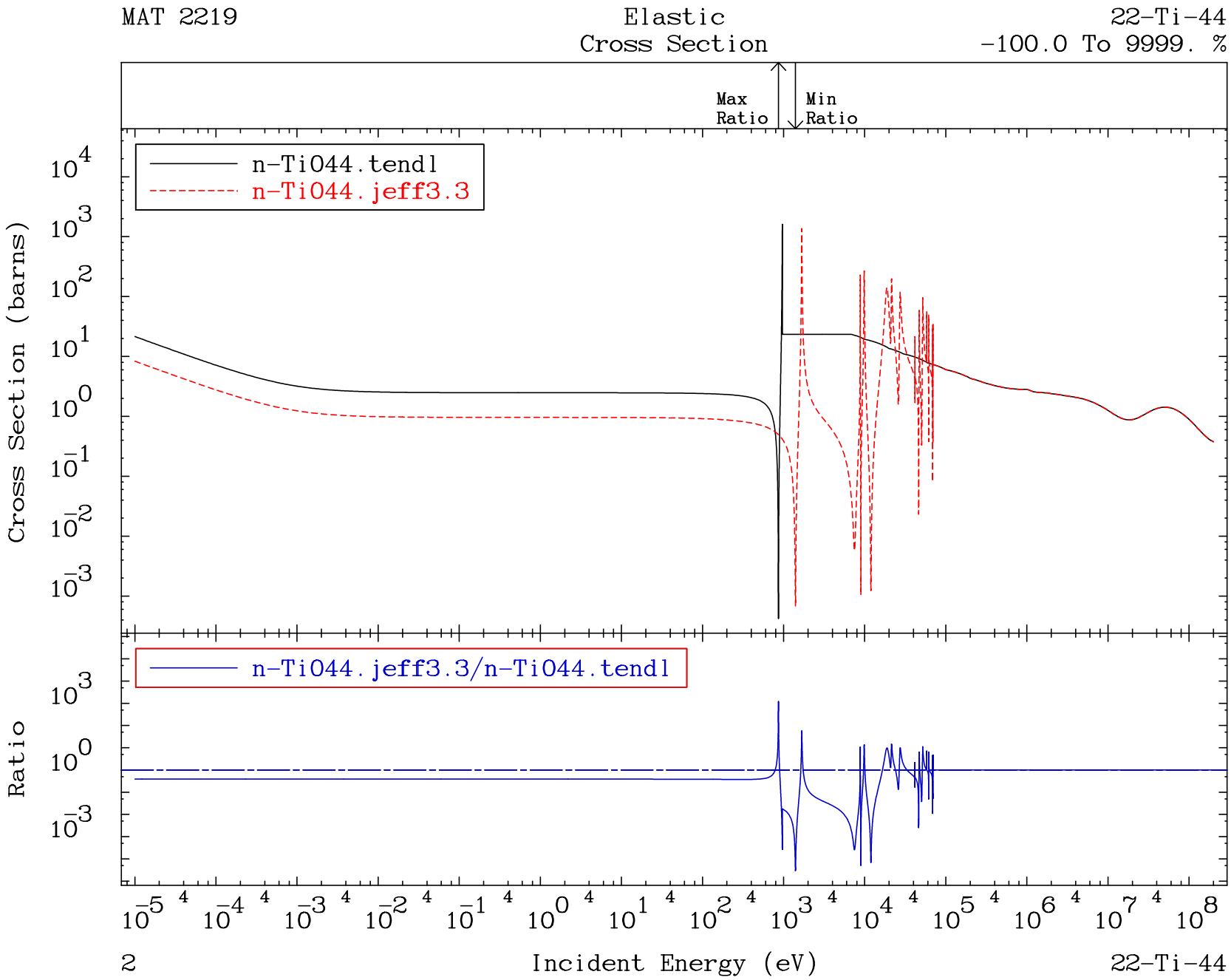
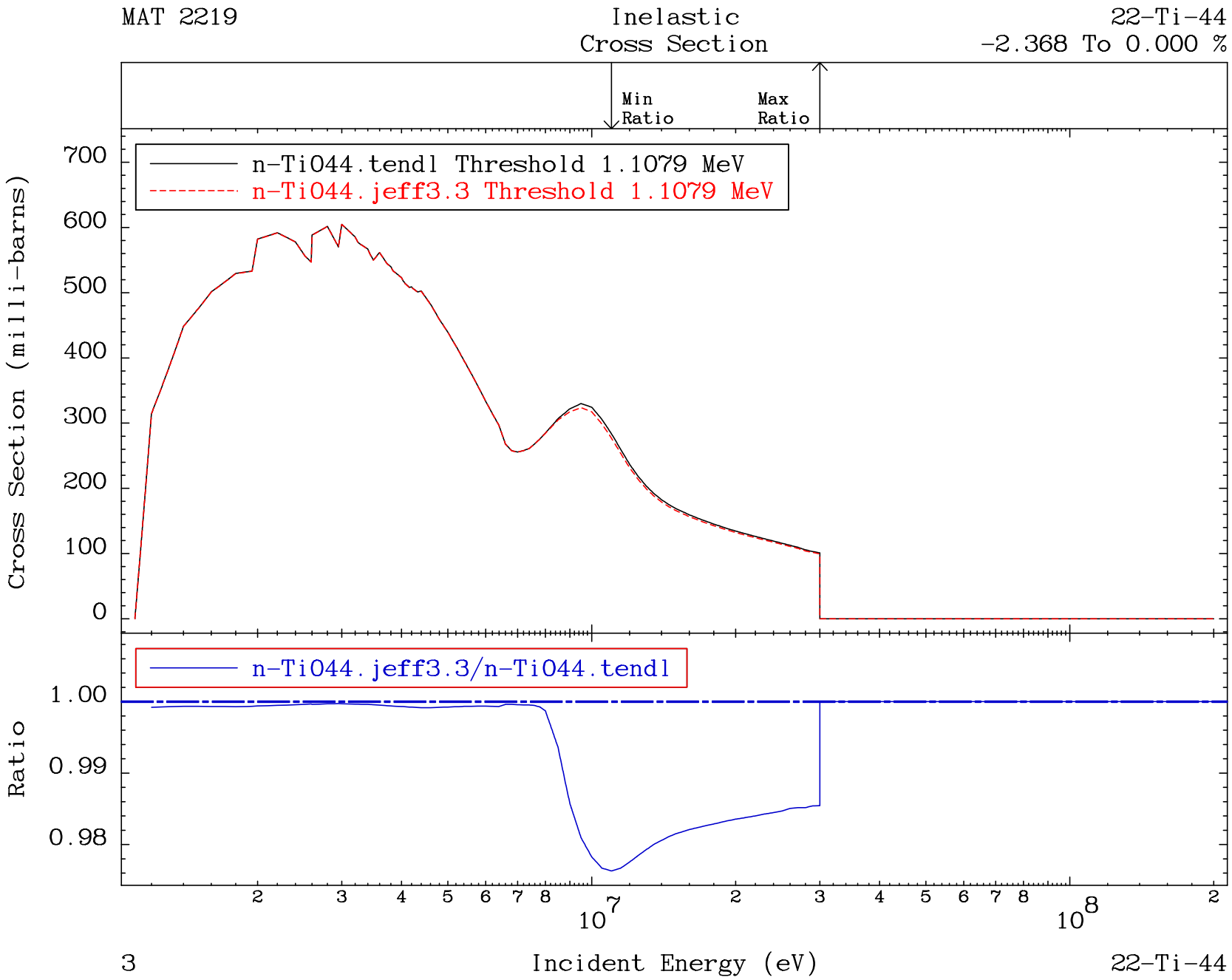
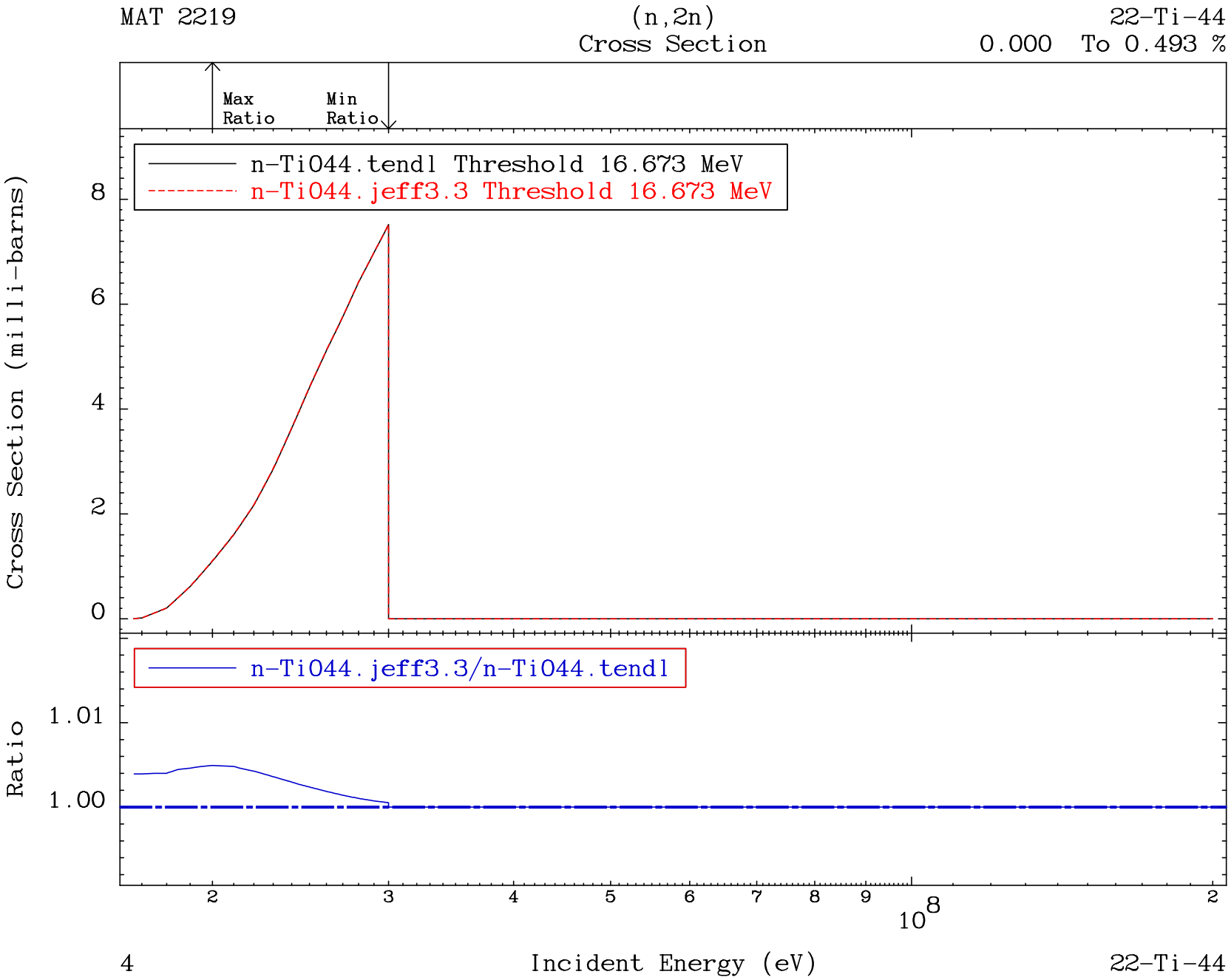
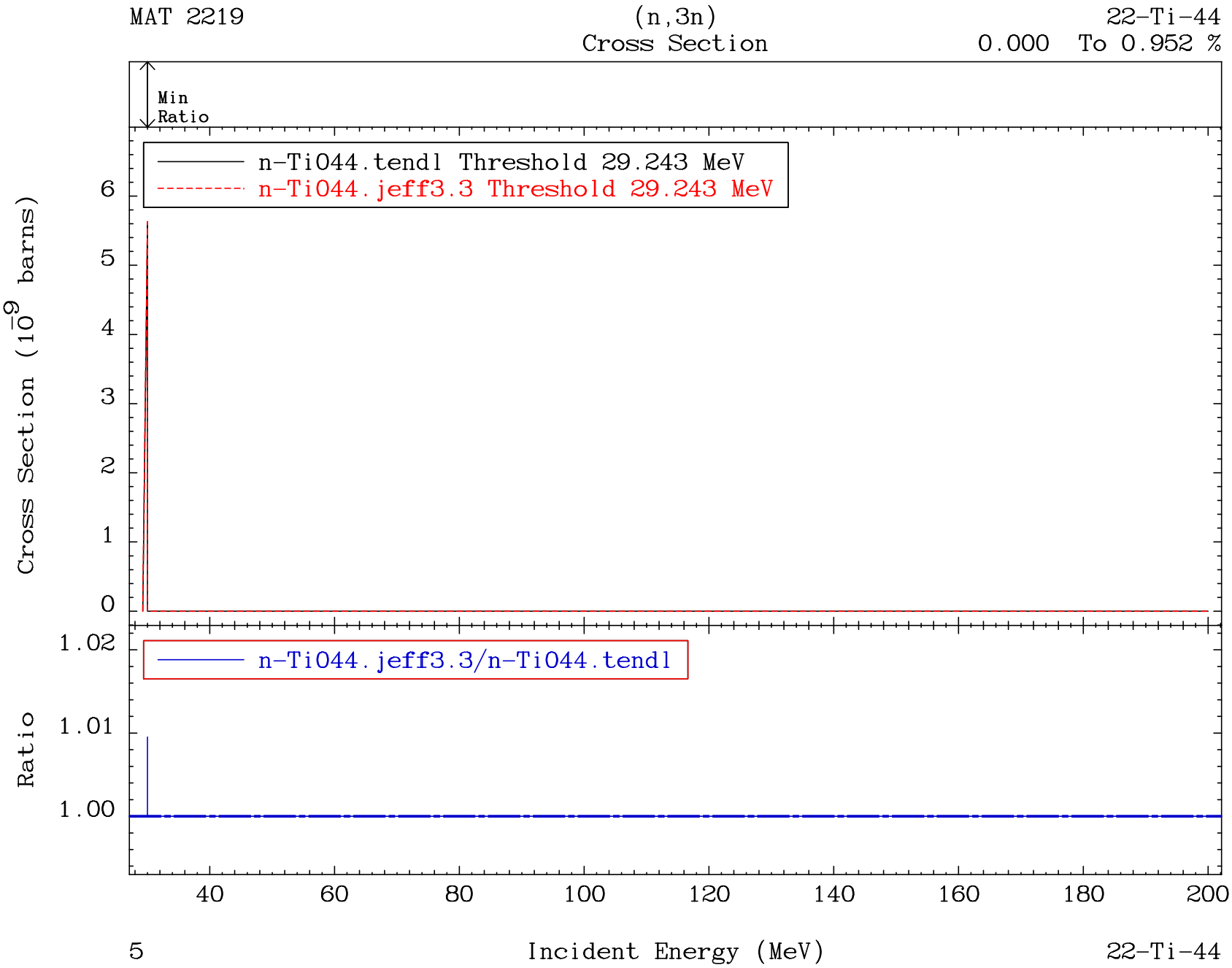
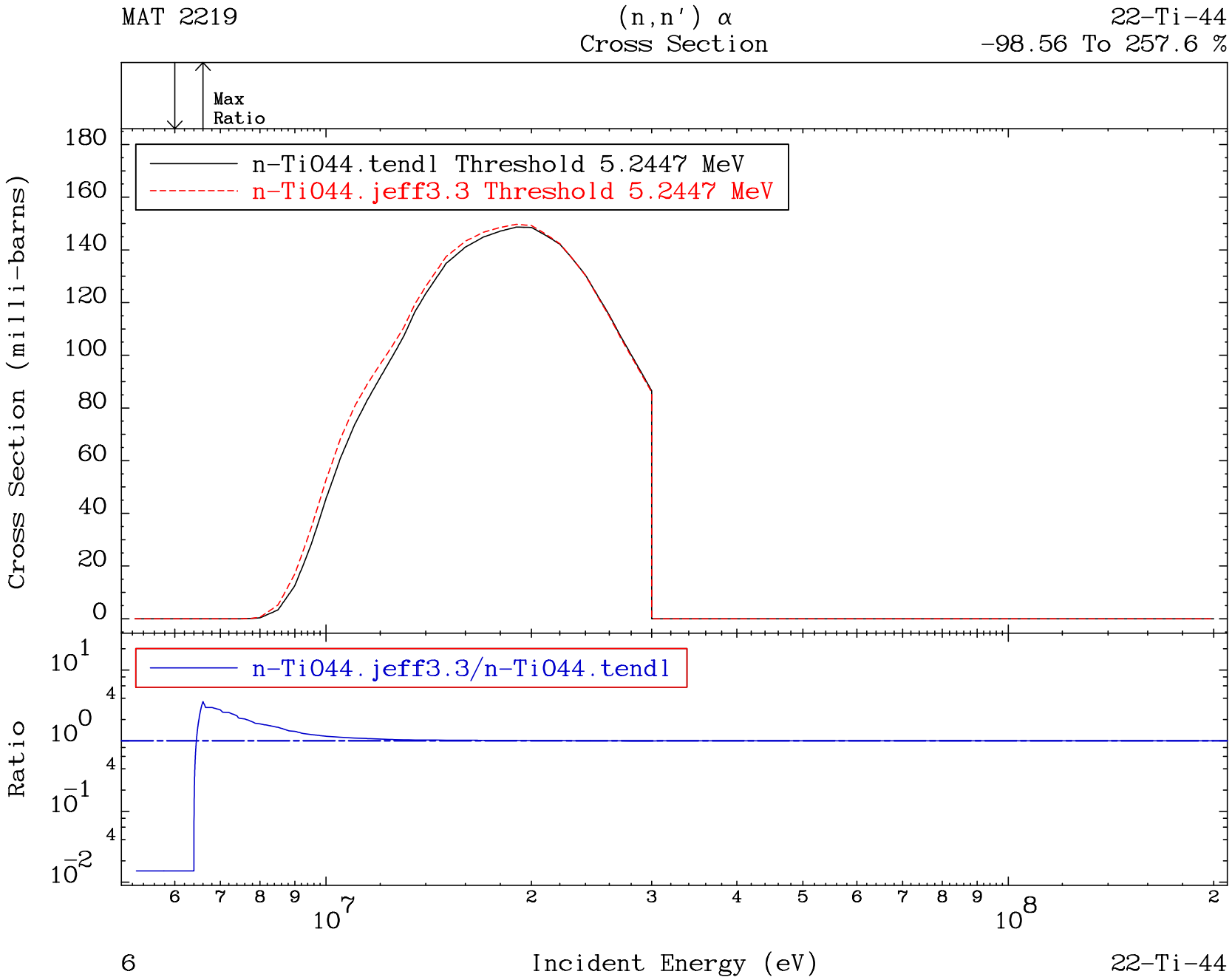

MAT 2219
Total
Cross Section
22-Ti-44
-99.98 To 6100. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
1
22-Ti-44

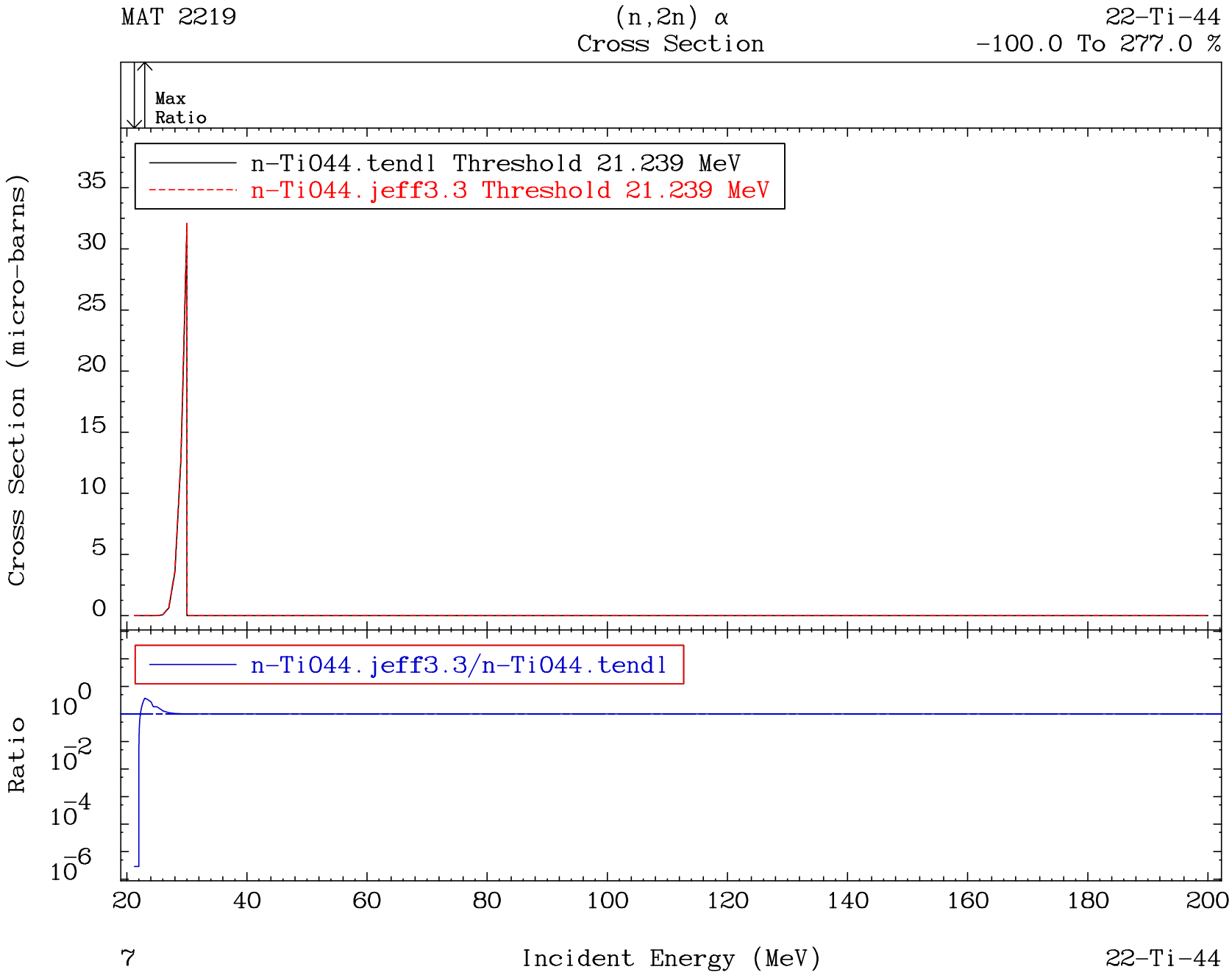

MAT 2219
Elastic
Cross Section
22-Ti-44
-100.0 To 9999. %
Max
Ratio
Min
Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
2
22-Ti-44

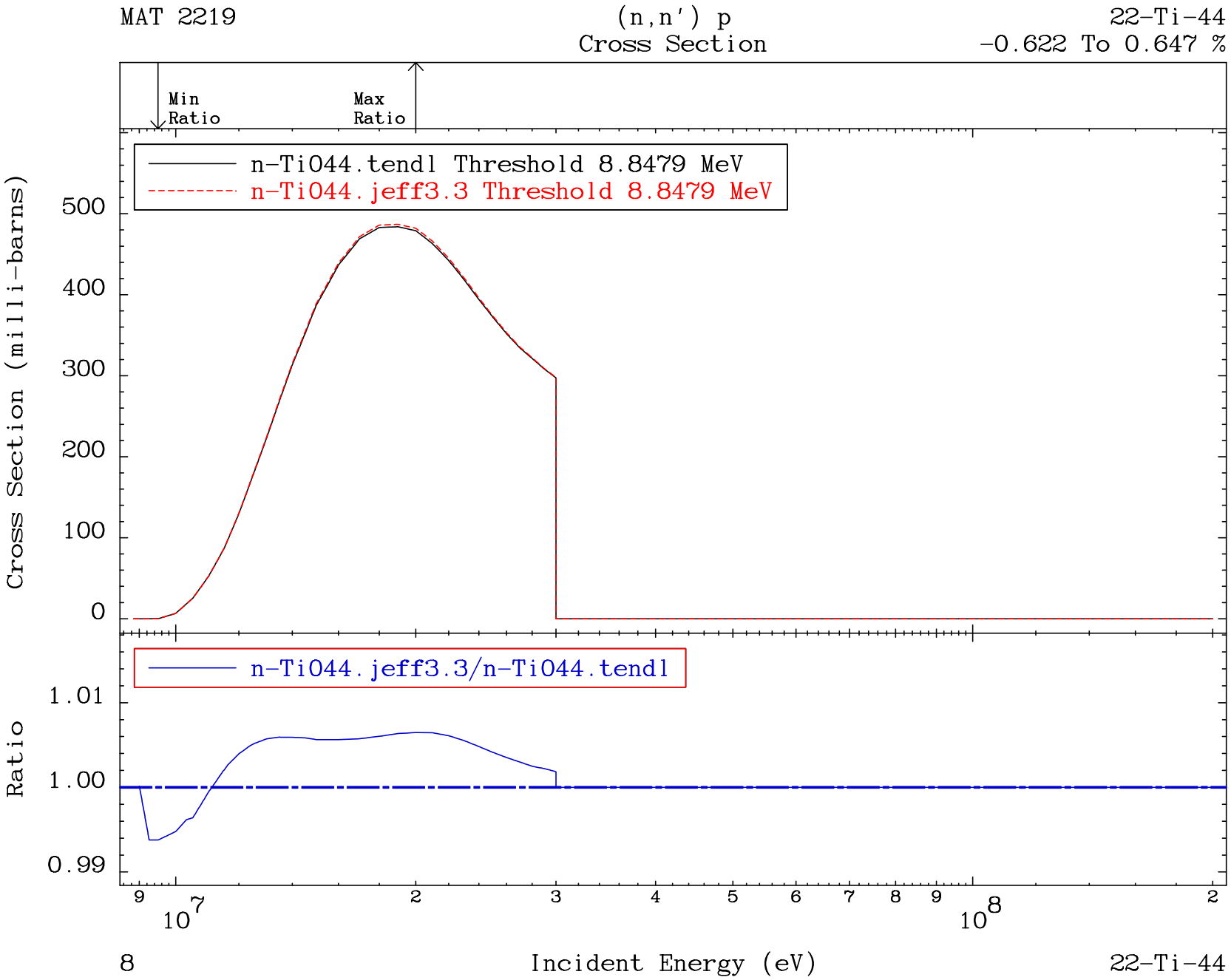

MAT 2219
Inelastic
Cross Section
22-Ti-44
-2.368 To 0.000 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 1.1079 MeV
n-Ti044.jeff3.3 Threshold 1.1079 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
22-Ti-44

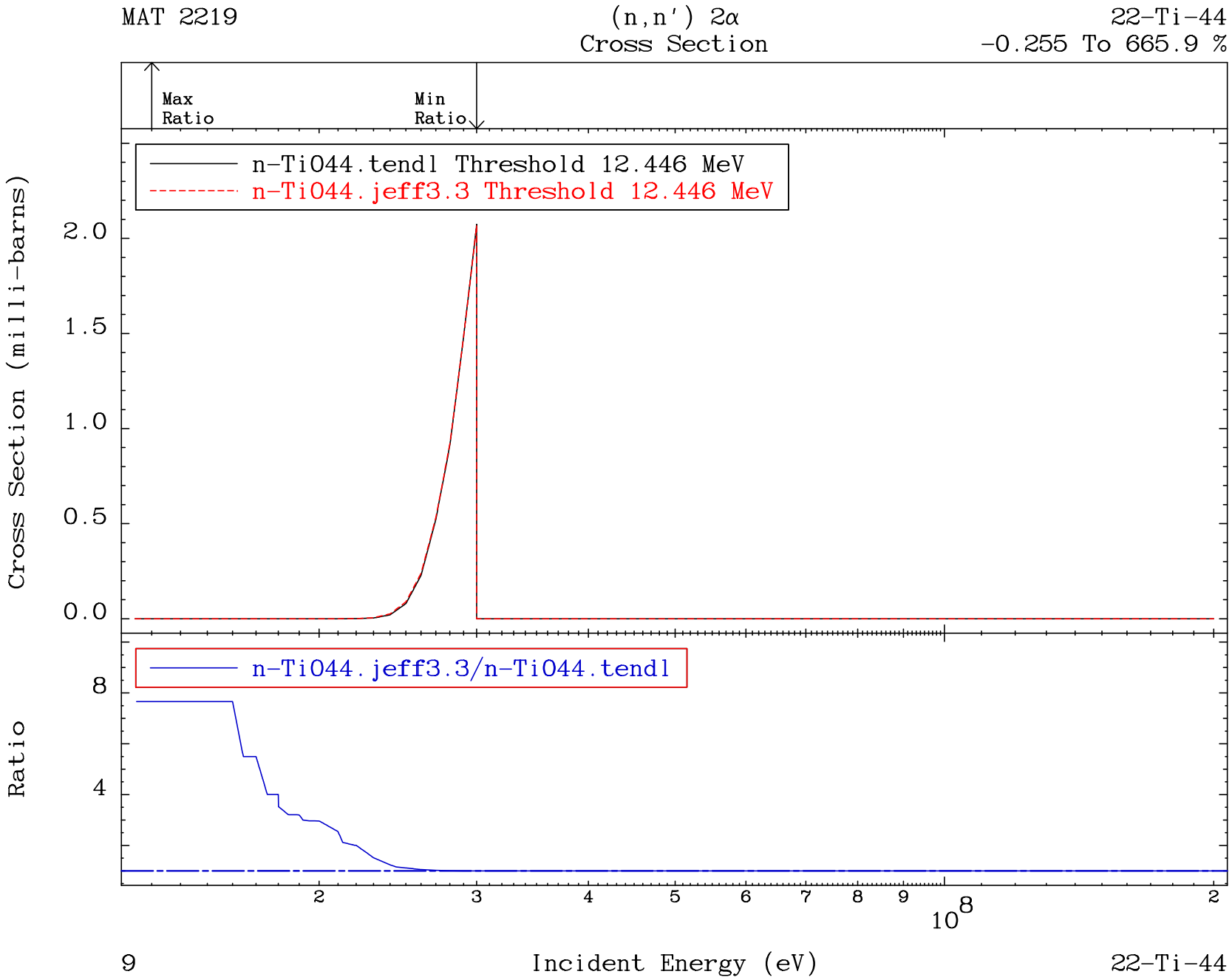

MAT 2219
(n,2n)
Cross Section
22-Ti-44
0.000 To 0.493 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 16.673 MeV
n-Ti044.jeff3.3 Threshold 16.673 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
22-Ti-44

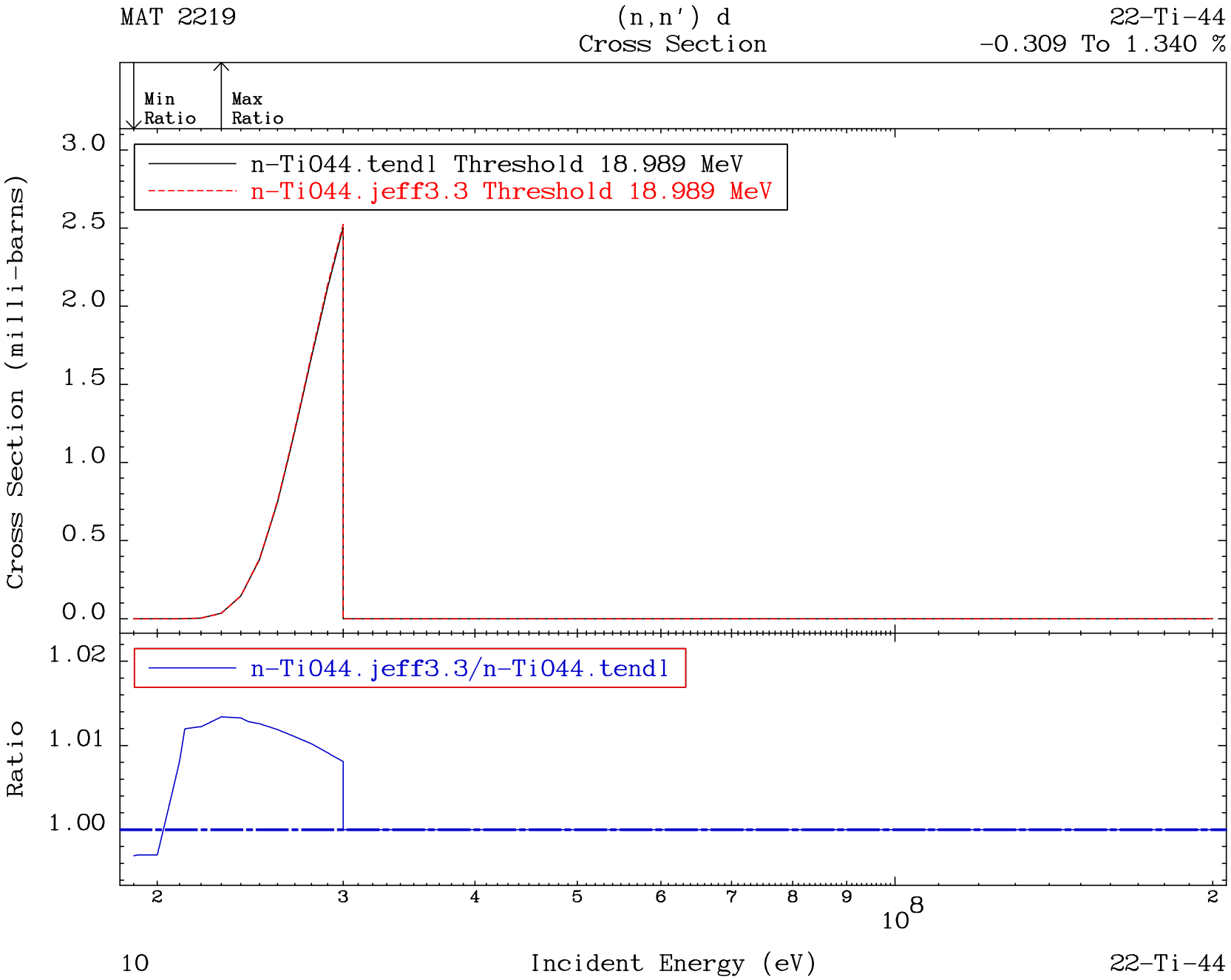

MAT 2219
(n,3n)
Cross Section
22-Ti-44
0.000 To 0.952 %
Min
Ratio
n-Ti044.tendl Threshold 29.243 MeV
n-Ti044.jeff3.3 Threshold 29.243 MeV
Cross Section (10^-9 barns)
0
1
2
3
4
5
6
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
1.01
1.02
40
60
80
100
120
140
160
180
200
5
Incident Energy (MeV)
22-Ti-44

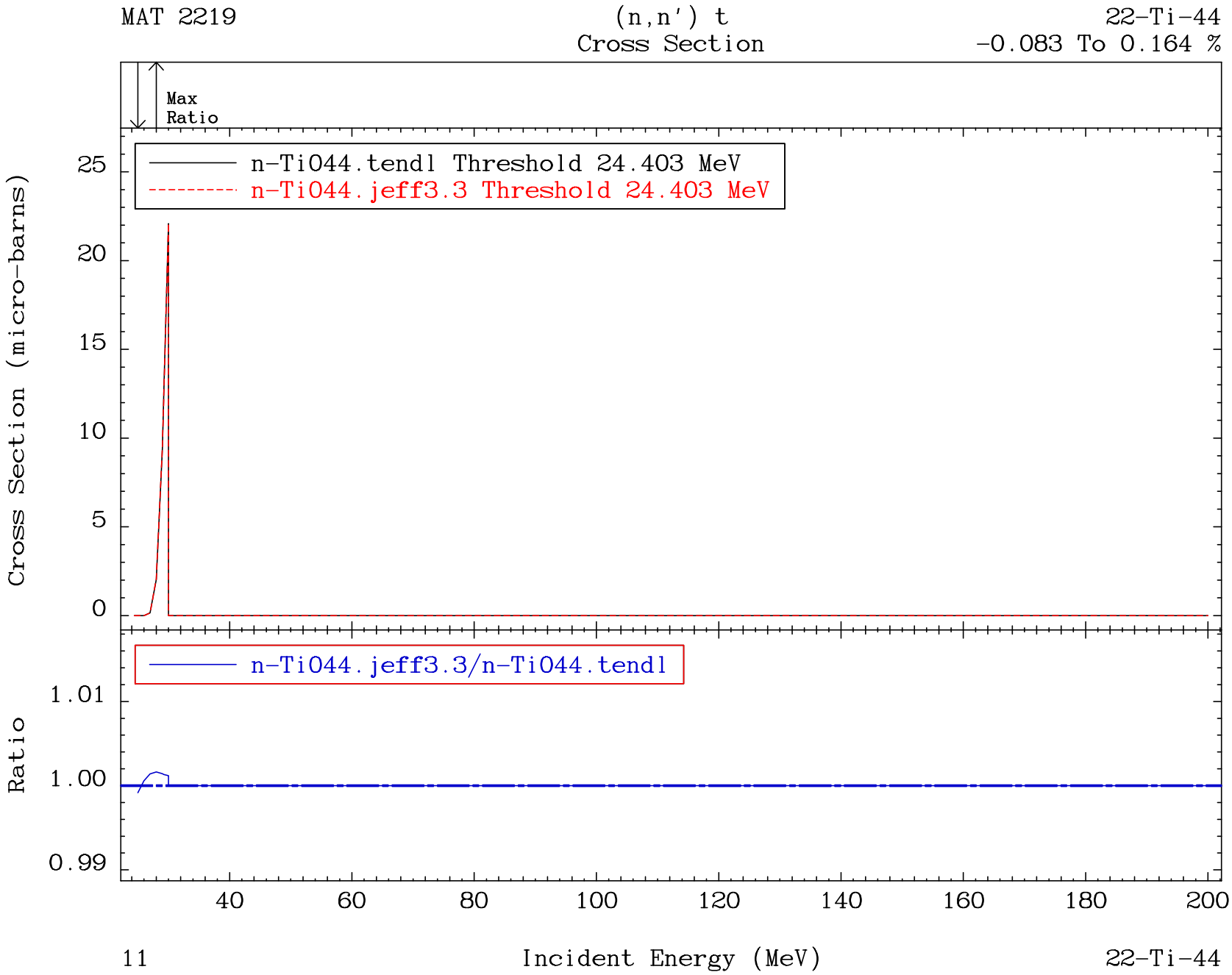

MAT 2219
(n,n') α
Cross Section
22-Ti-44
-98.56 To 257.6 %
Max
Ratio
n-Ti044.tendl Threshold 5.2447 MeV
n-Ti044.jeff3.3 Threshold 5.2447 MeV
Cross Section (milli-barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
6
22-Ti-44

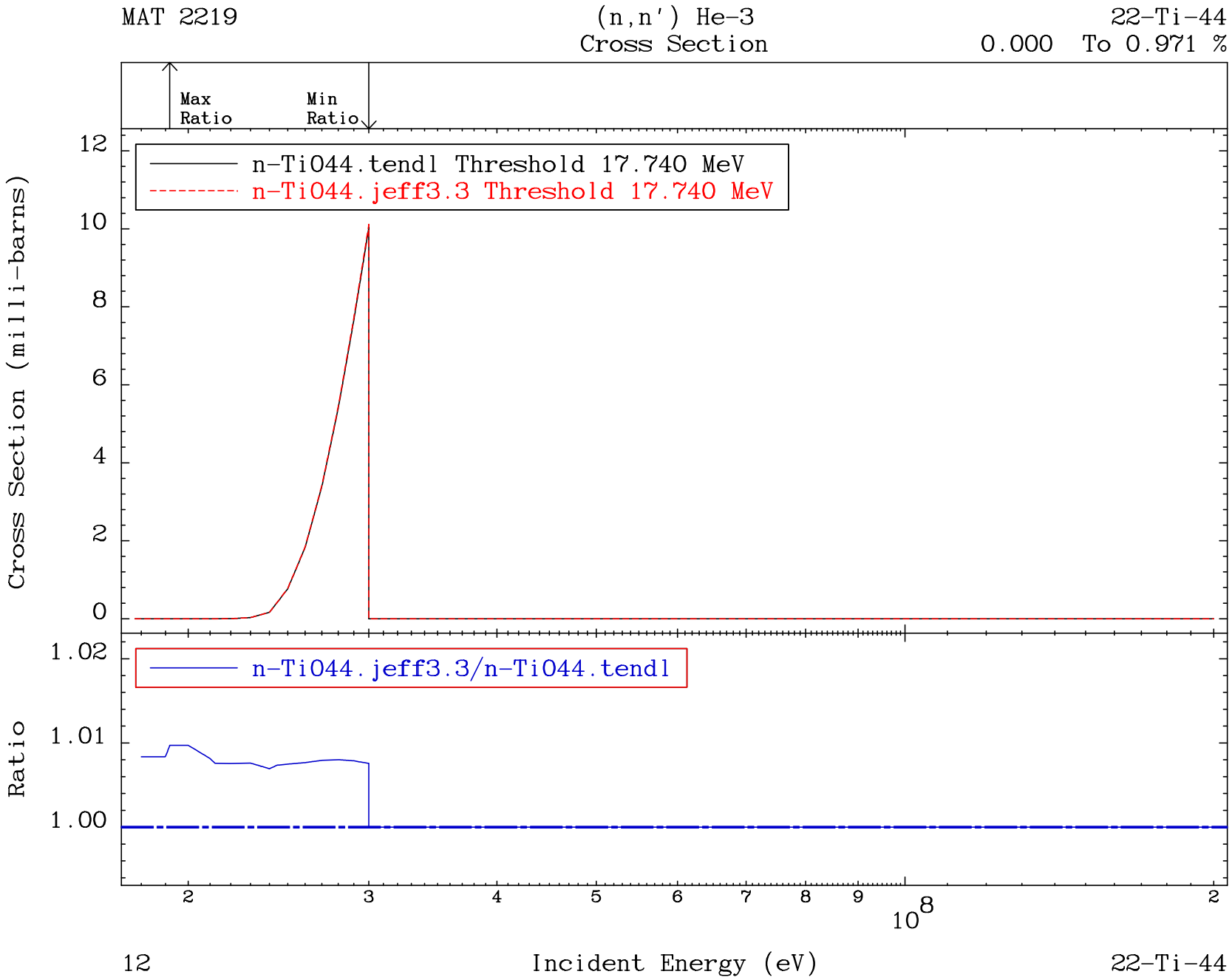

MAT 2219
(n,2n) α
Cross Section
22-Ti-44
-100.0 To 277.0 %
Max
Ratio
n-Ti044.tendl Threshold 21.239 MeV
n-Ti044.jeff3.3 Threshold 21.239 MeV
Cross Section (micro-barns)
35
30
25
20
15
10
5
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
10^0
10^-2
10^-4
10^-6
20
40
60
80
100
120
140
160
180
200
7
Incident Energy (MeV)
22-Ti-44

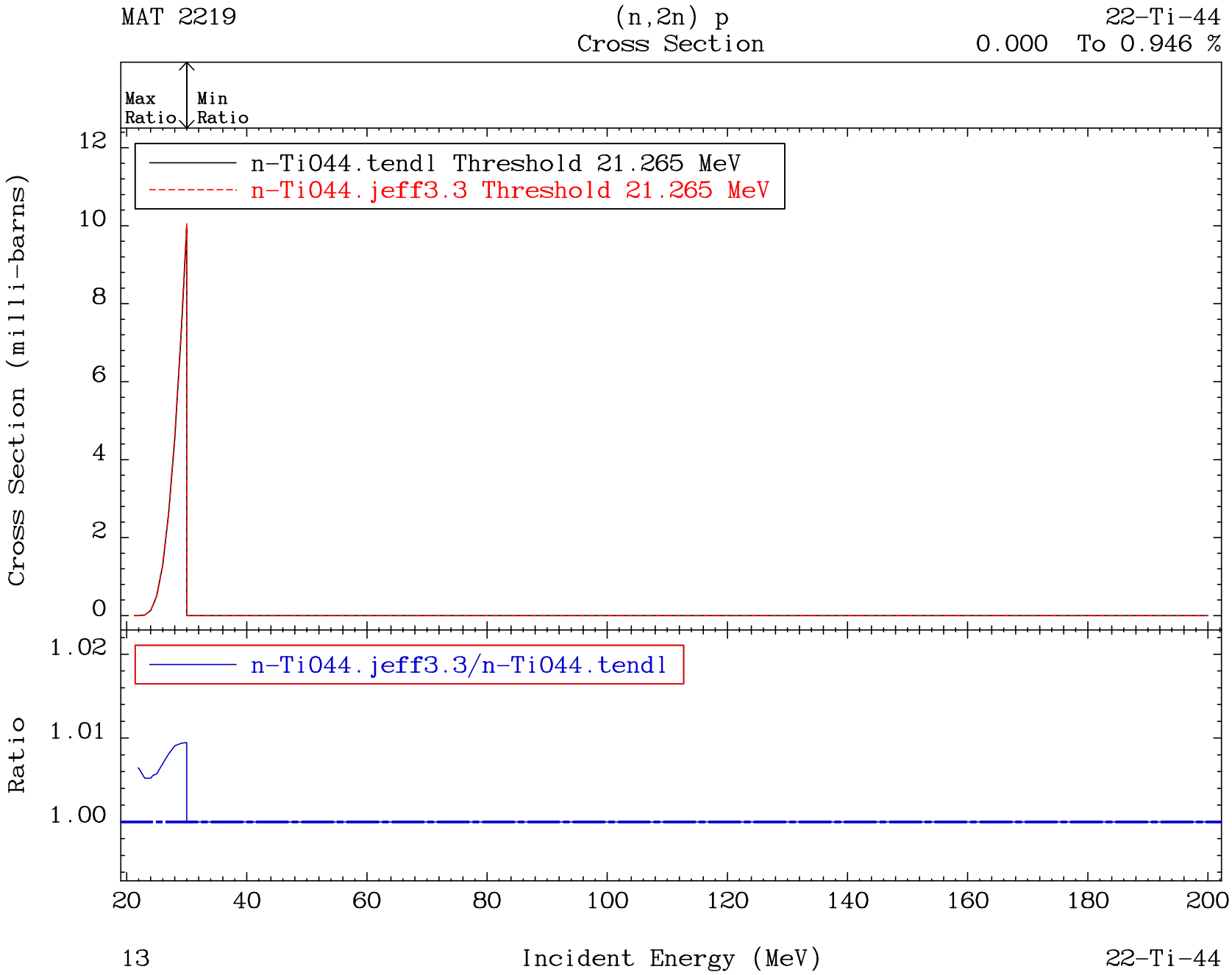

MAT 2219
(n,n') p
Cross Section
22-Ti-44
-0.622 To 0.647 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 8.8479 MeV
n-Ti044.jeff3.3 Threshold 8.8479 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
22-Ti-44

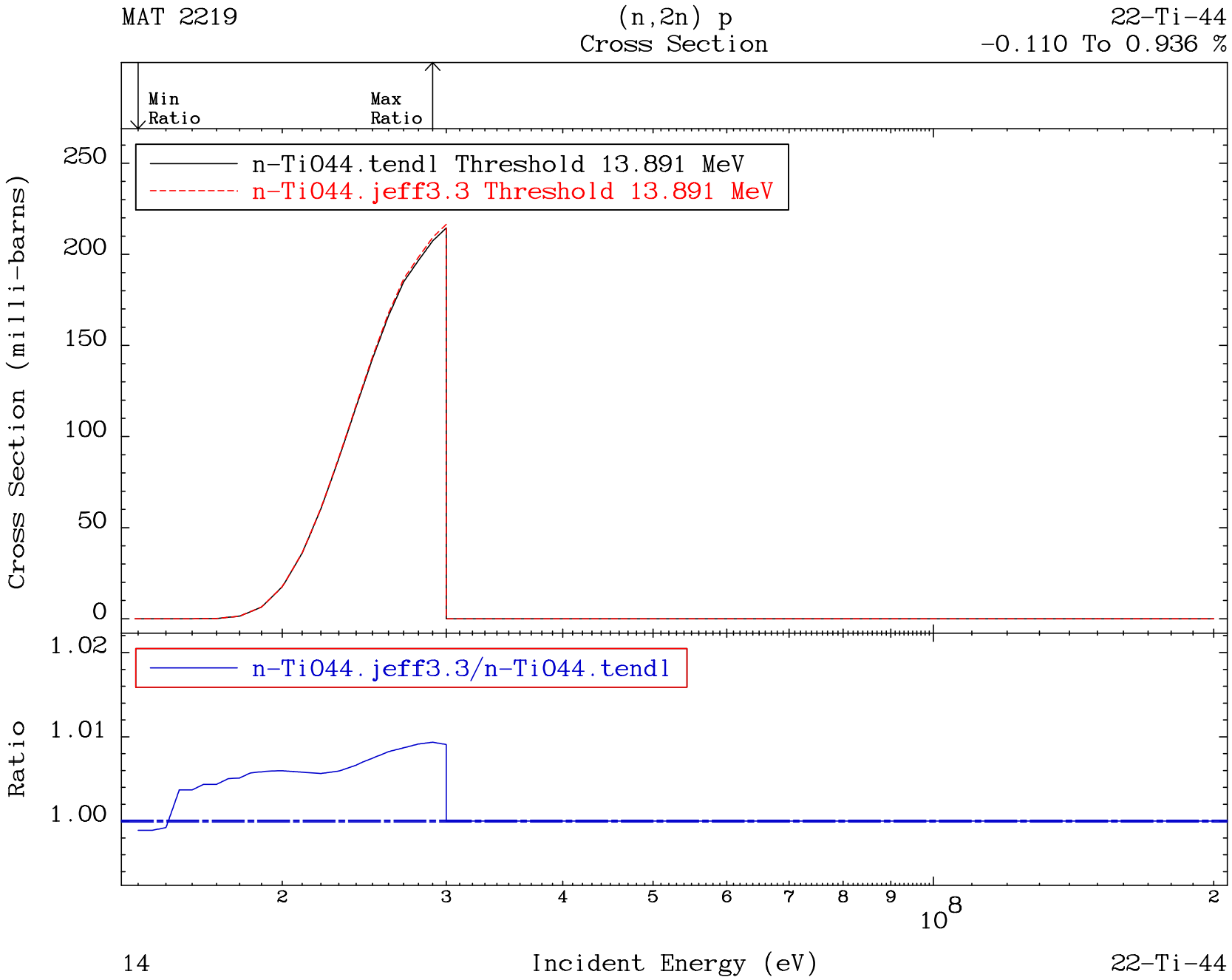

MAT 2219
(n,n') 2α
Cross Section
22-Ti-44
-0.255 To 665.9 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 12.446 MeV
n-Ti044.jeff3.3 Threshold 12.446 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
22-Ti-44

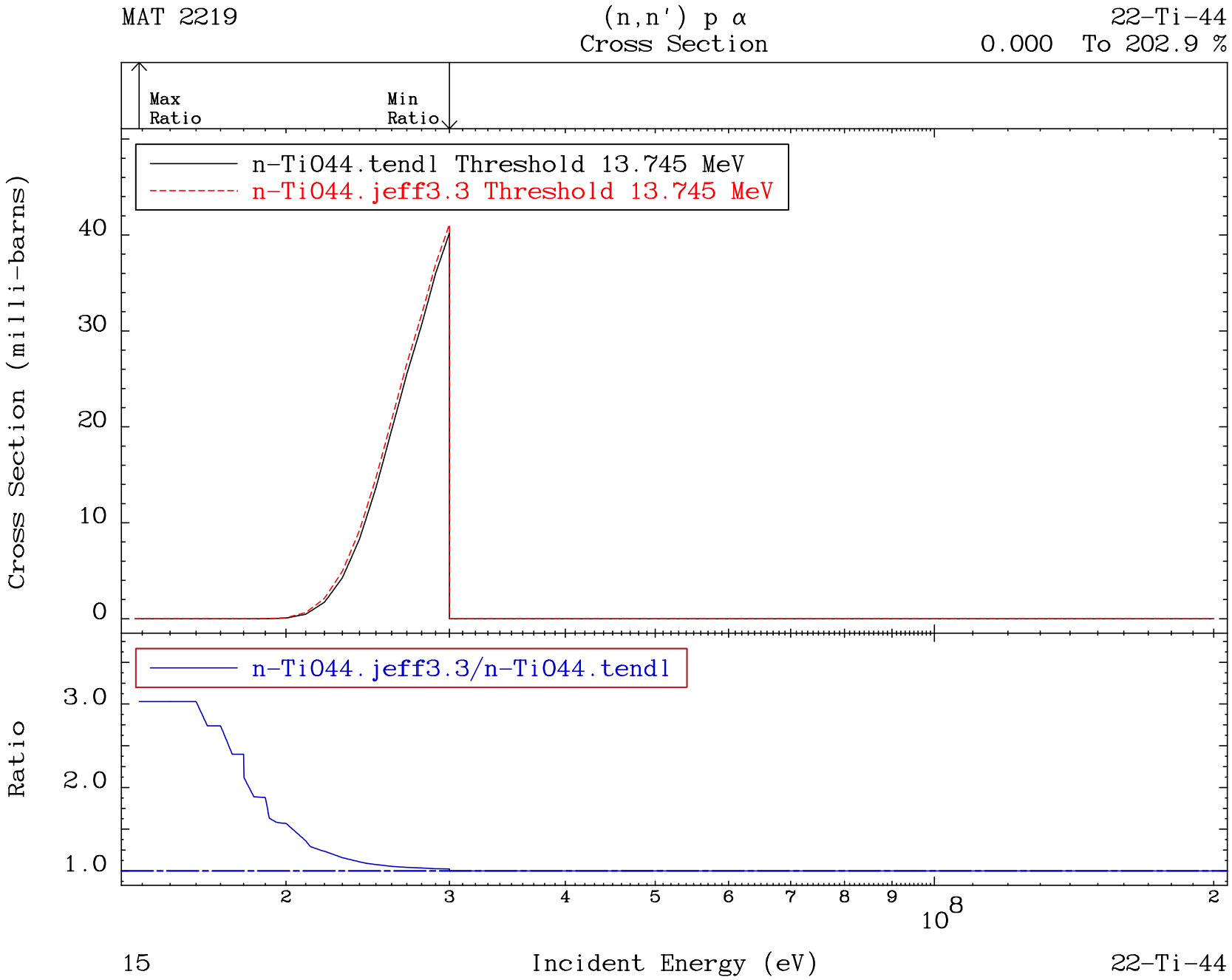

MAT 2219
(n,n') d
Cross Section
22-Ti-44
-0.309 To 1.340 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 18.989 MeV
n-Ti044.jeff3.3 Threshold 18.989 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
22-Ti-44

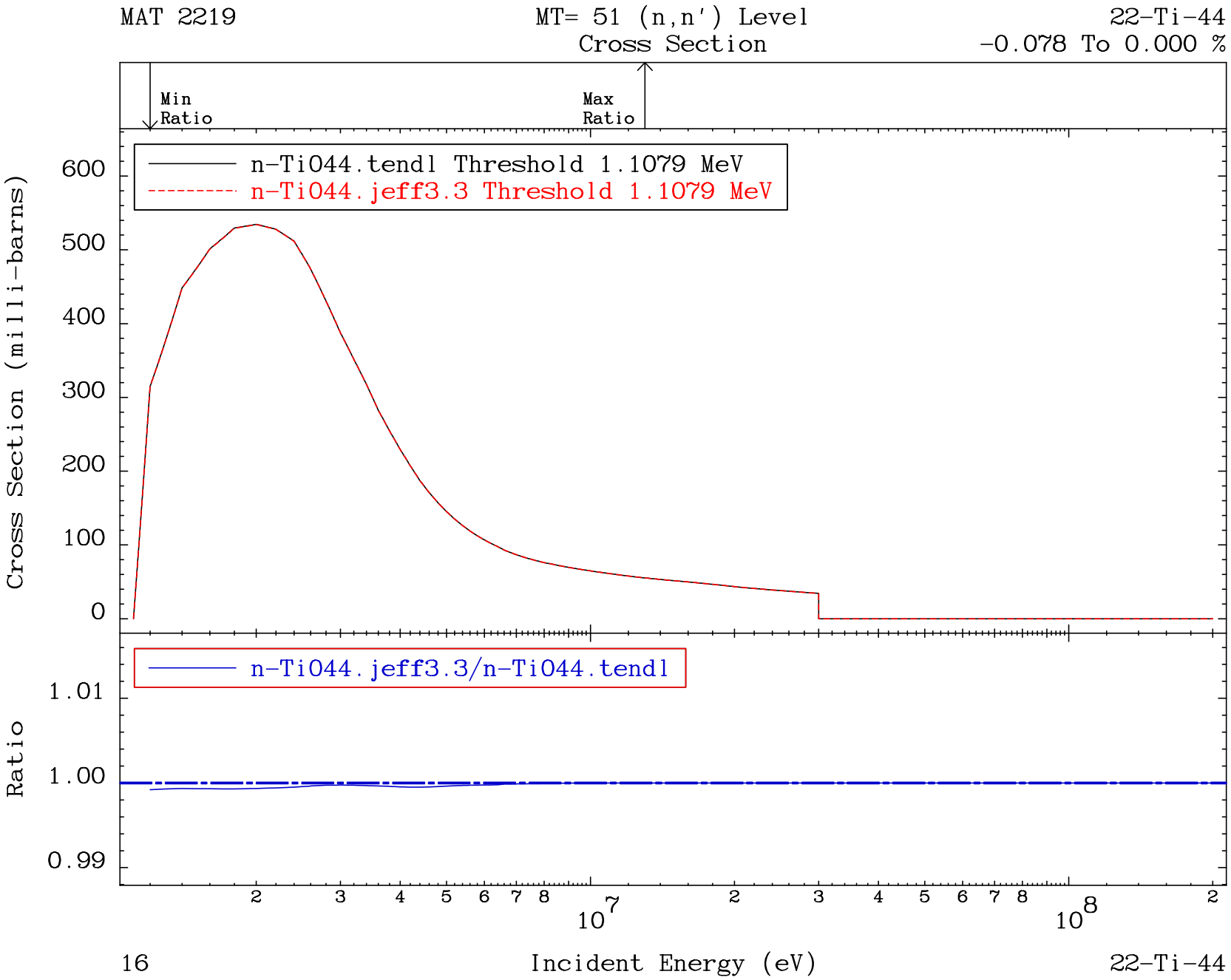

MAT 2219
(n,n') t
Cross Section
22-Ti-44
-0.083 To 0.164 %
Max
Ratio
n-Ti044.tendl Threshold 24.403 MeV
n-Ti044.jeff3.3 Threshold 24.403 MeV
Cross Section (micro-barns)
25
20
15
10
5
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
11
Incident Energy (MeV)
22-Ti-44

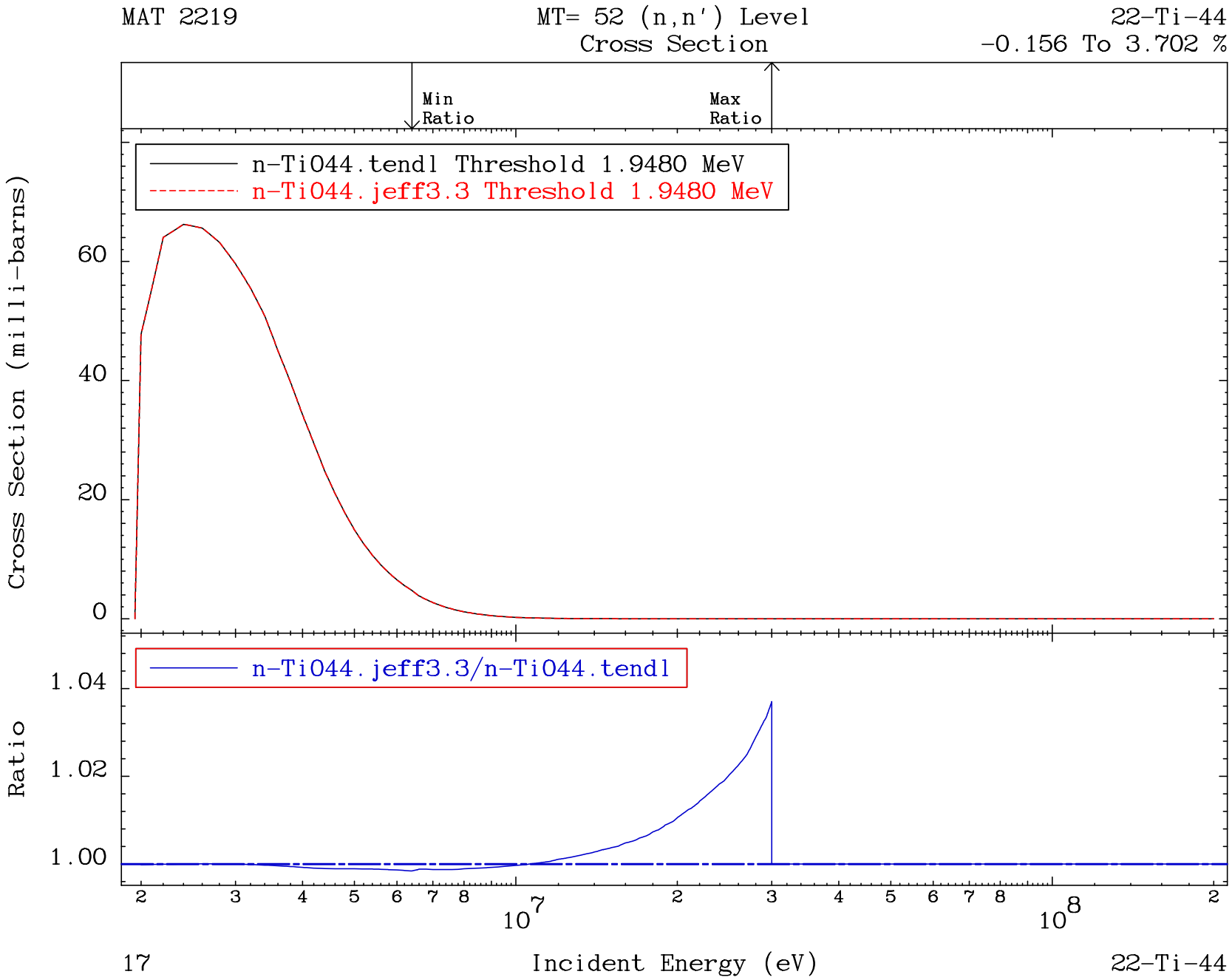

MAT 2219
(n,n') He-3
Cross Section
22-Ti-44
0.000 To 0.971 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 17.740 MeV
n-Ti044.jeff3.3 Threshold 17.740 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
22-Ti-44

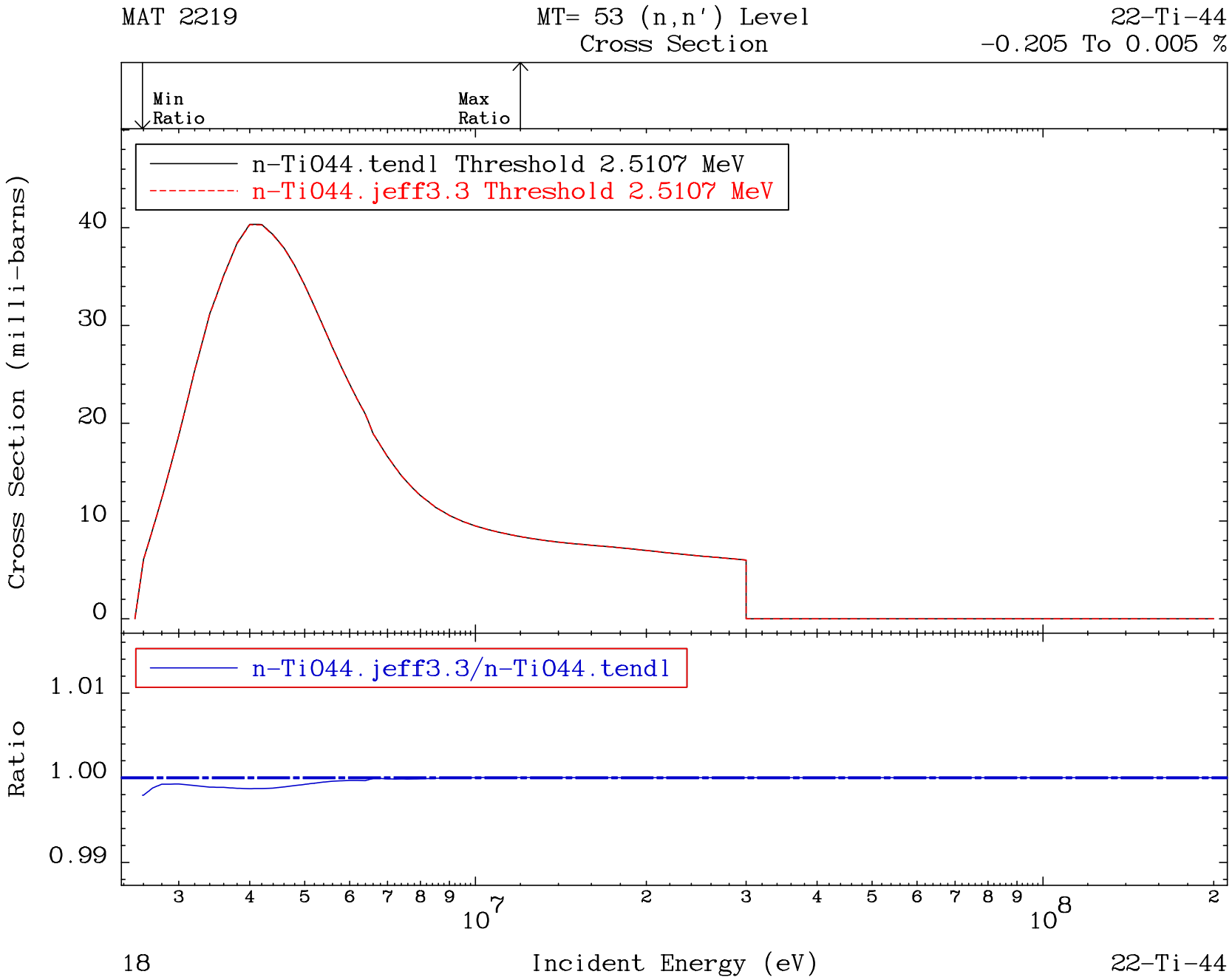

MAT 2219
(n,2n) p
Cross Section
22-Ti-44
0.000 To 0.946 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 21.265 MeV
n-Ti044.jeff3.3 Threshold 21.265 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.02
1.01
1.00
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
22-Ti-44

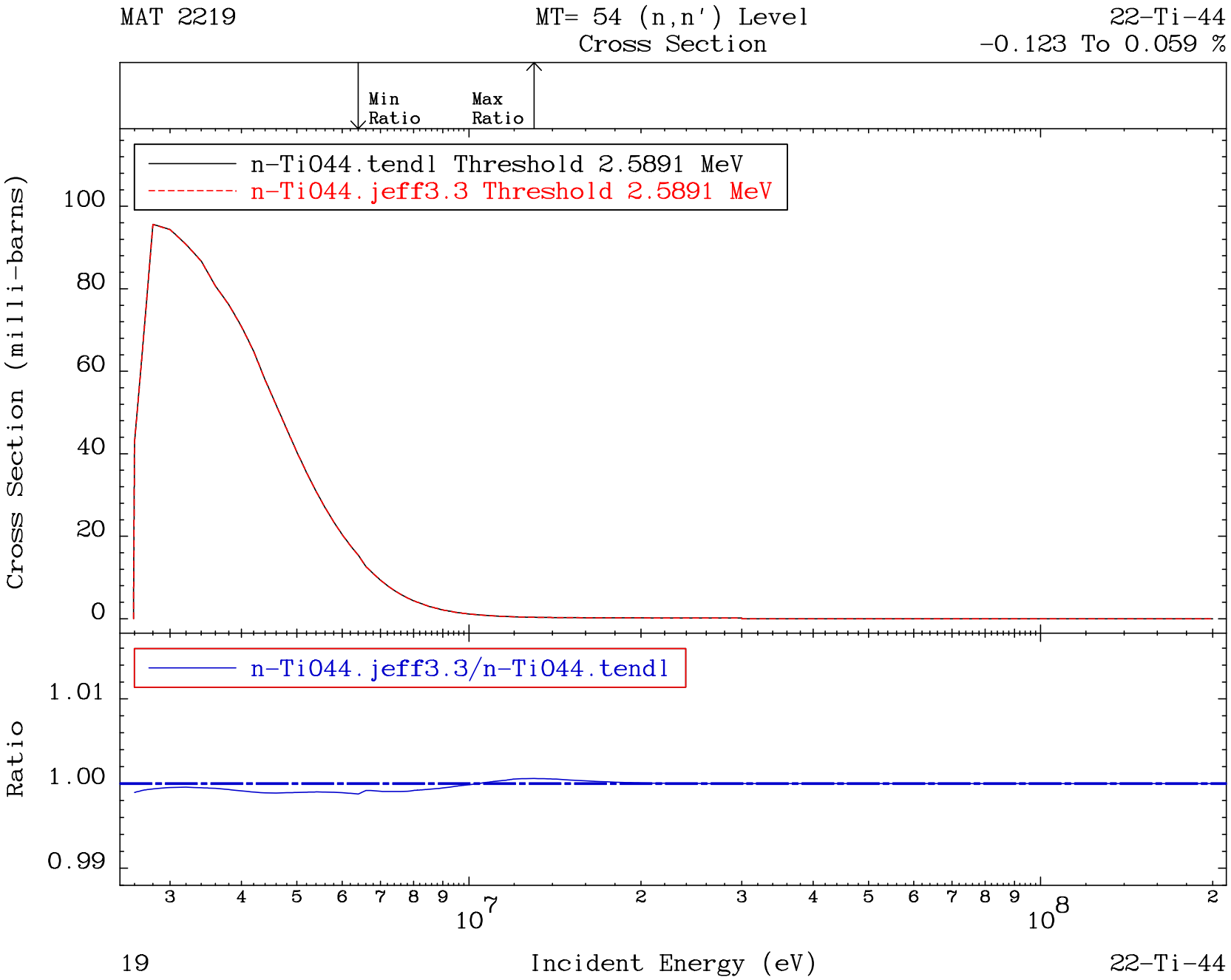

MAT 2219
(n,2n) p
Cross Section
22-Ti-44
-0.110 To 0.936 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 13.891 MeV
n-Ti044.jeff3.3 Threshold 13.891 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
22-Ti-44

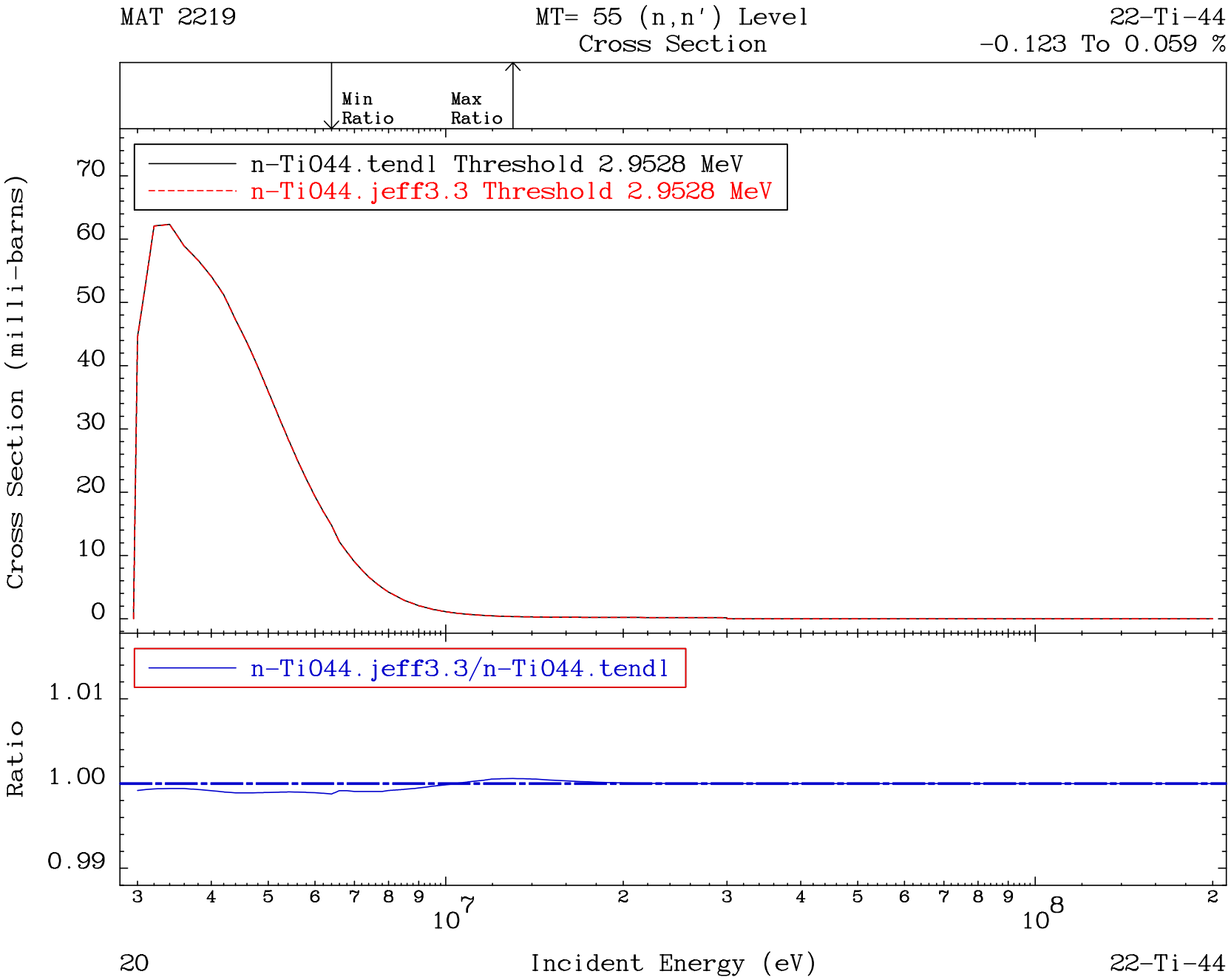

MAT 2219
(n,n') p α
Cross Section
22-Ti-44
0.000 To 202.9 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 13.745 MeV
n-Ti044.jeff3.3 Threshold 13.745 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
22-Ti-44

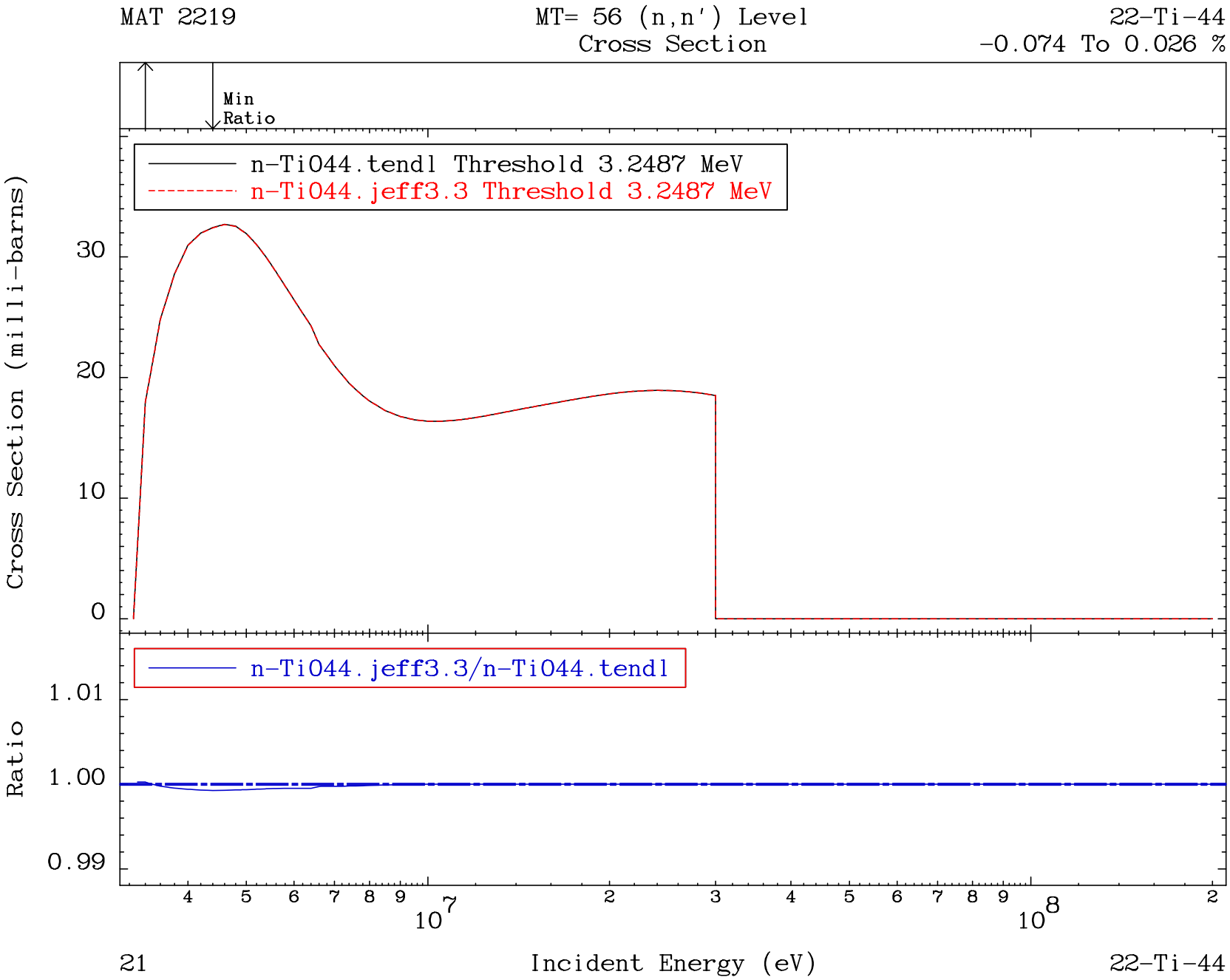

MAT 2219
MT= 51 (n,n') Level
Cross Section
22-Ti-44
-0.078 To 0.000 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 1.1079 MeV
n-Ti044.jeff3.3 Threshold 1.1079 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
22-Ti-44

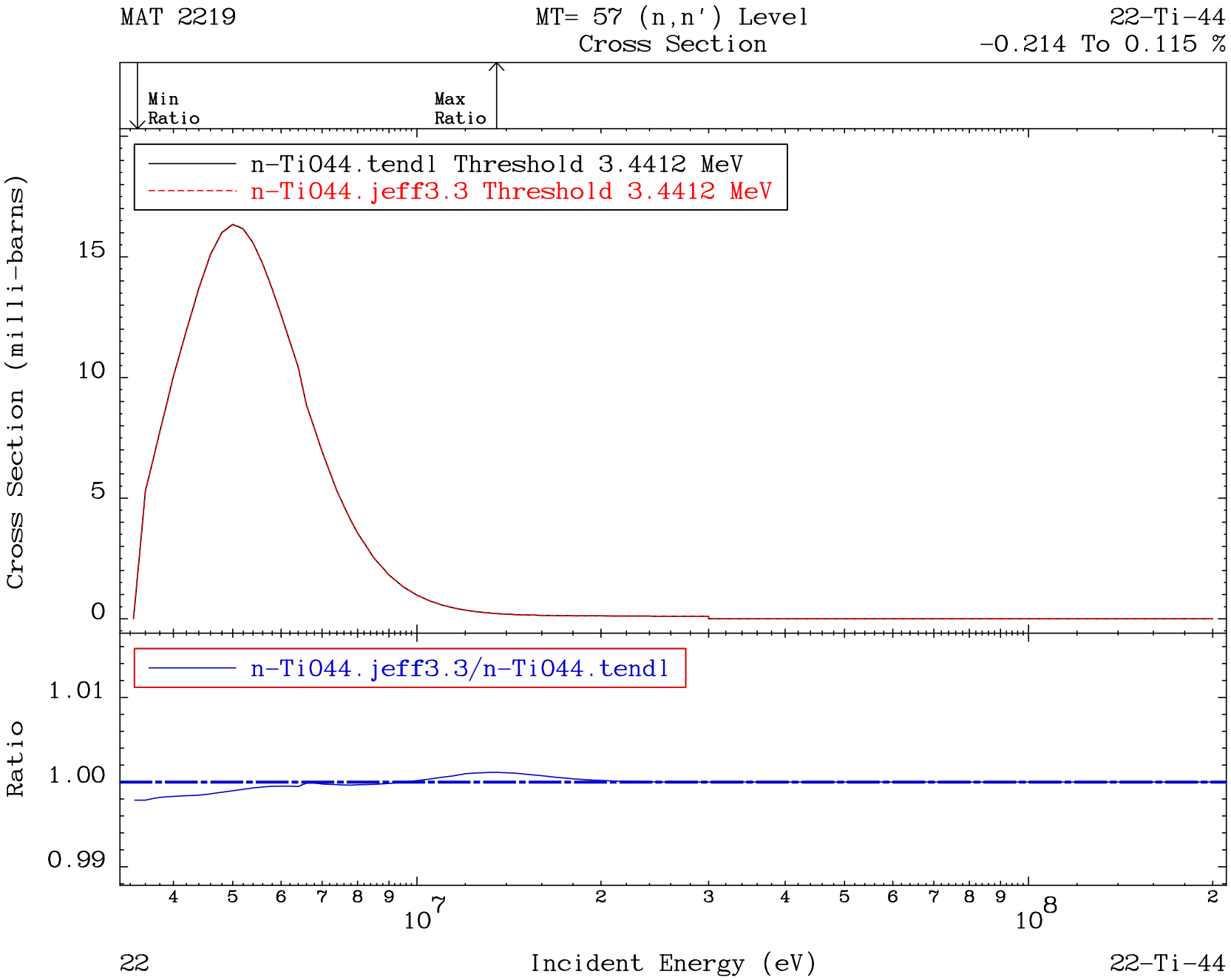

MAT 2219
MT= 52 (n,n') Level
Cross Section
22-Ti-44
-0.156 To 3.702 %
Min
Ratio
Max
Ratio
n-Ti044.tendl Threshold 1.9480 MeV
n-Ti044.jeff3.3 Threshold 1.9480 MeV
Cross Section (milli-barns)
60
40
20
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.04
1.02
1.00
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
22-Ti-44

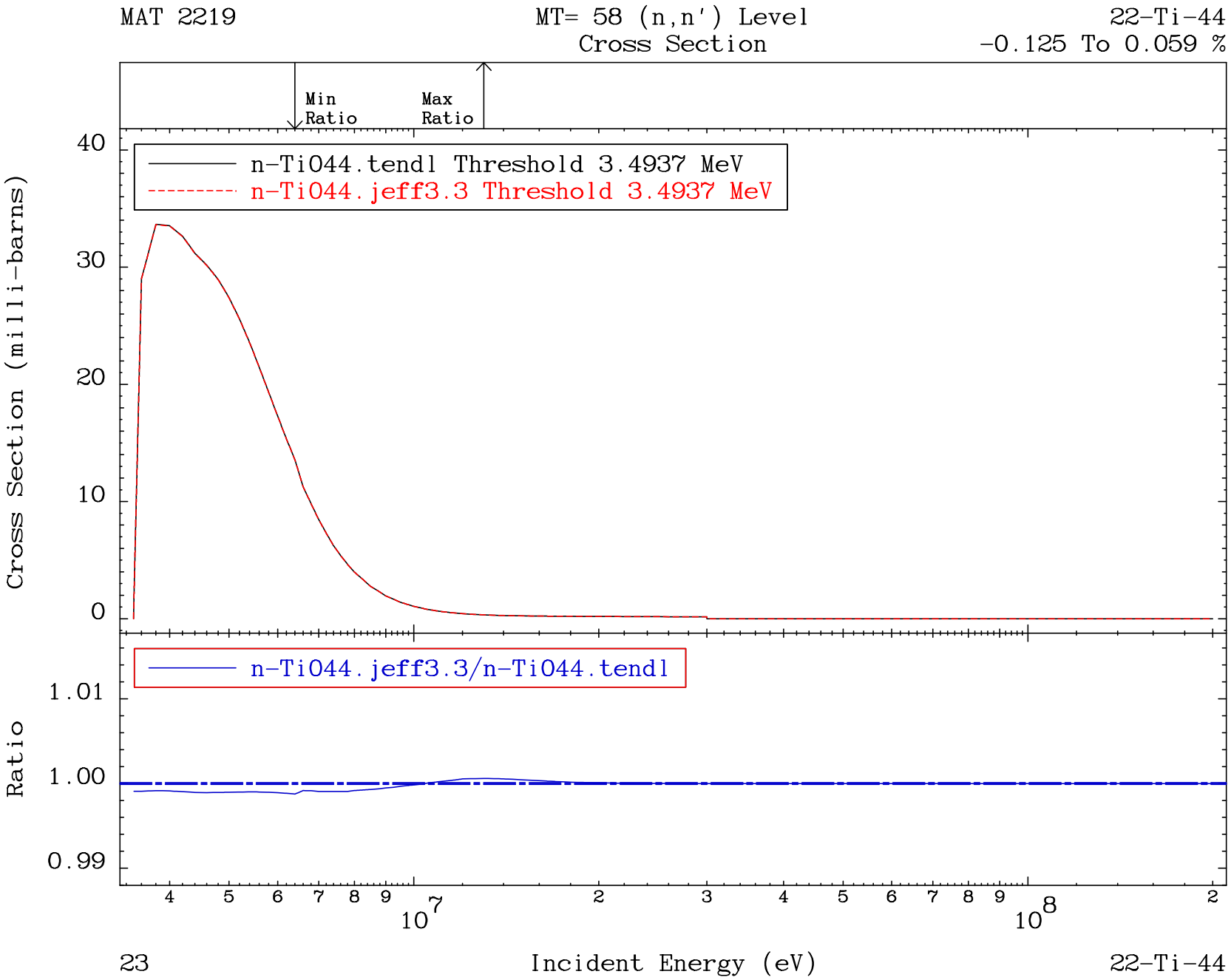

MAT 2219
MT= 53 (n,n') Level
Cross Section
22-Ti-44
-0.205 To 0.005 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 2.5107 MeV
n-Ti044.jeff3.3 Threshold 2.5107 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
22-Ti-44

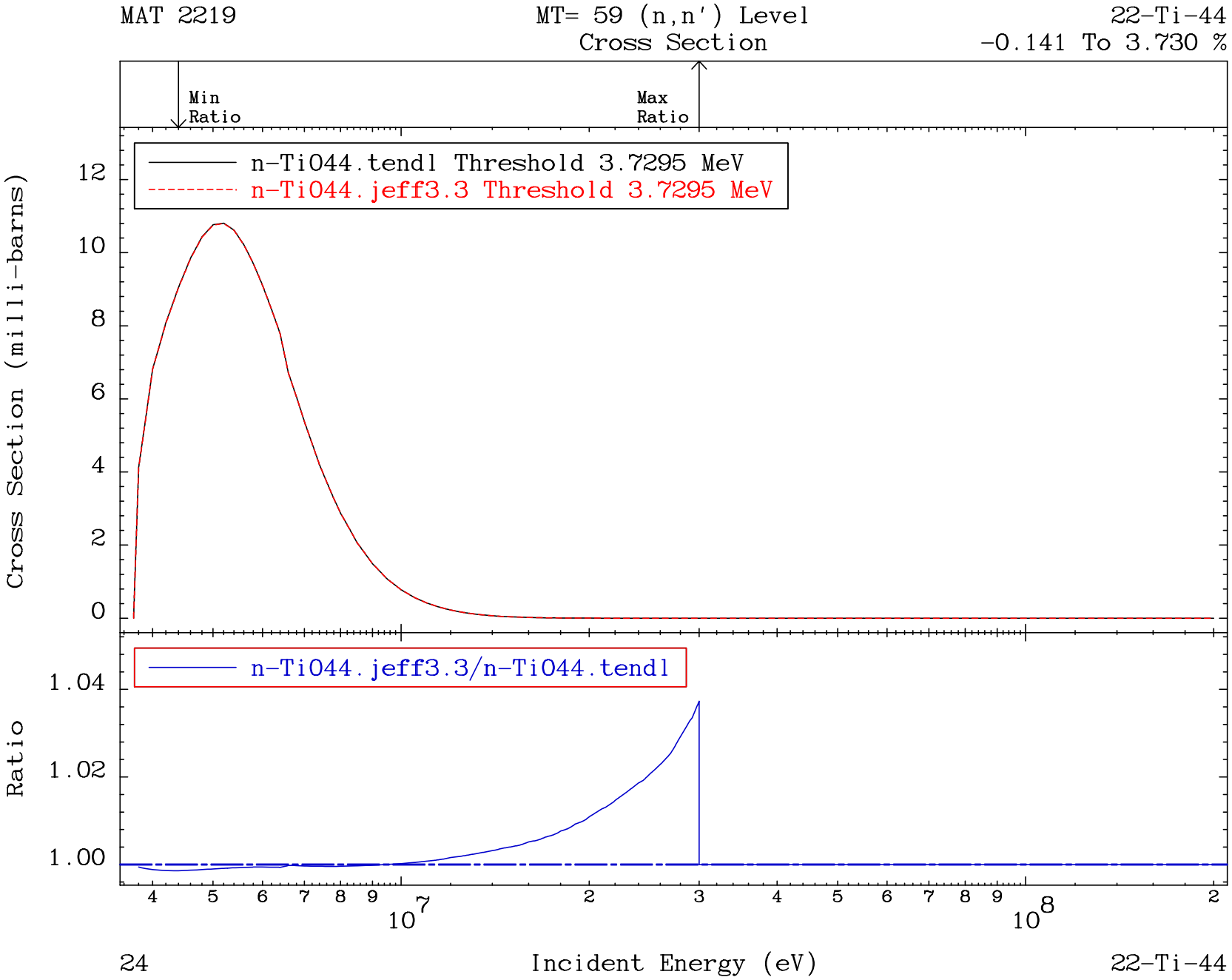

MAT 2219
MT= 54 (n,n') Level
Cross Section
22-Ti-44
-0.123 To 0.059 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 2.5891 MeV
n-Ti044.jeff3.3 Threshold 2.5891 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
19
Incident Energy (eV)
22-Ti-44

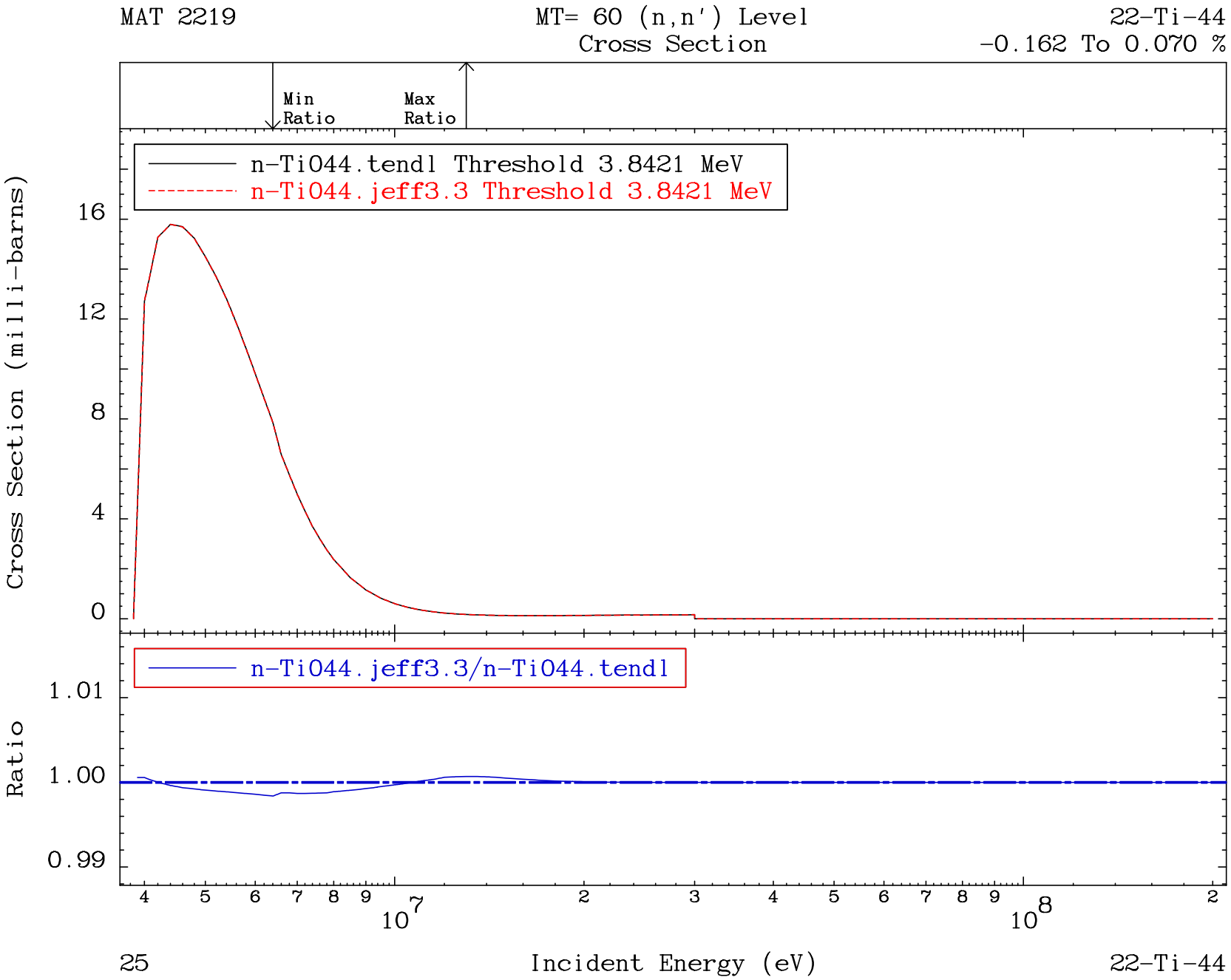

MAT 2219
MT= 55 (n,n') Level
Cross Section
22-Ti-44
-0.123 To 0.059 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 2.9528 MeV
n-Ti044.jeff3.3 Threshold 2.9528 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
22-Ti-44

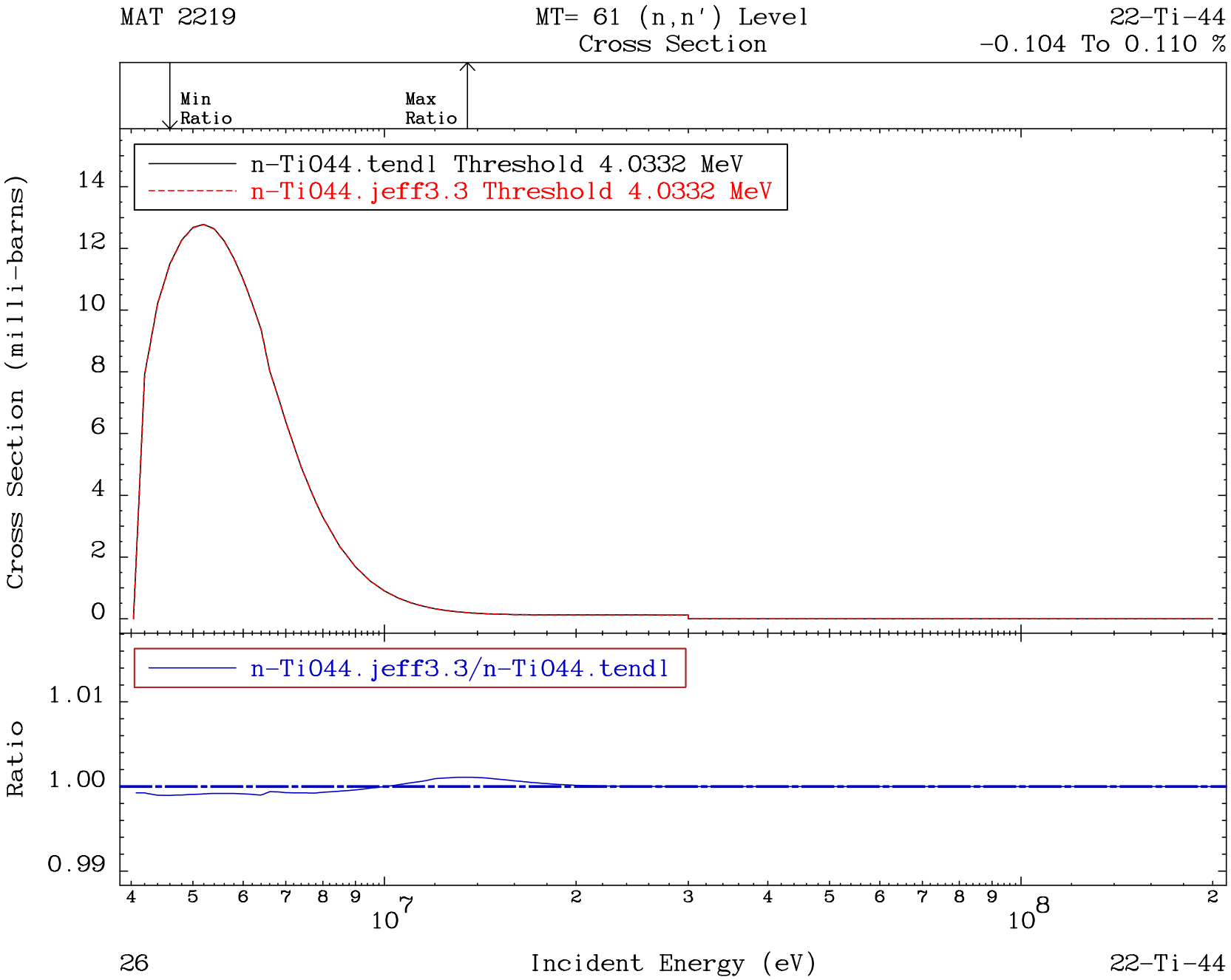

MAT 2219
MT= 56 (n,n') Level
Cross Section
22-Ti-44
-0.074 To 0.026 %
Min
Ratio
n-Ti044.tendl Threshold 3.2487 MeV
n-Ti044.jeff3.3 Threshold 3.2487 MeV
Cross Section (milli-barns)
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
22-Ti-44

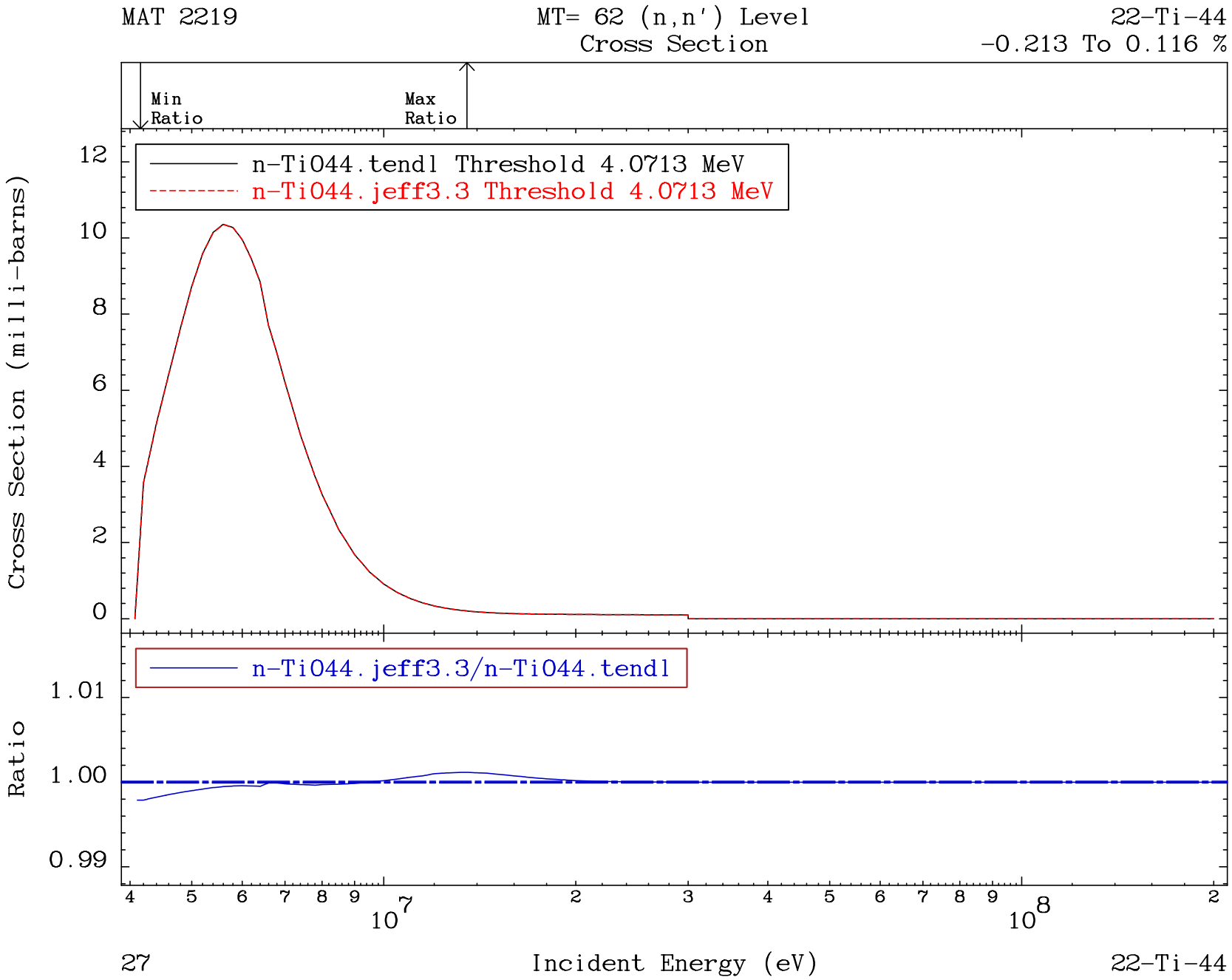

MAT 2219
MT= 57 (n,n') Level
Cross Section
22-Ti-44
-0.214 To 0.115 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 3.4412 MeV
n-Ti044.jeff3.3 Threshold 3.4412 MeV
Cross Section (milli-barns)
15
10
5
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
22-Ti-44

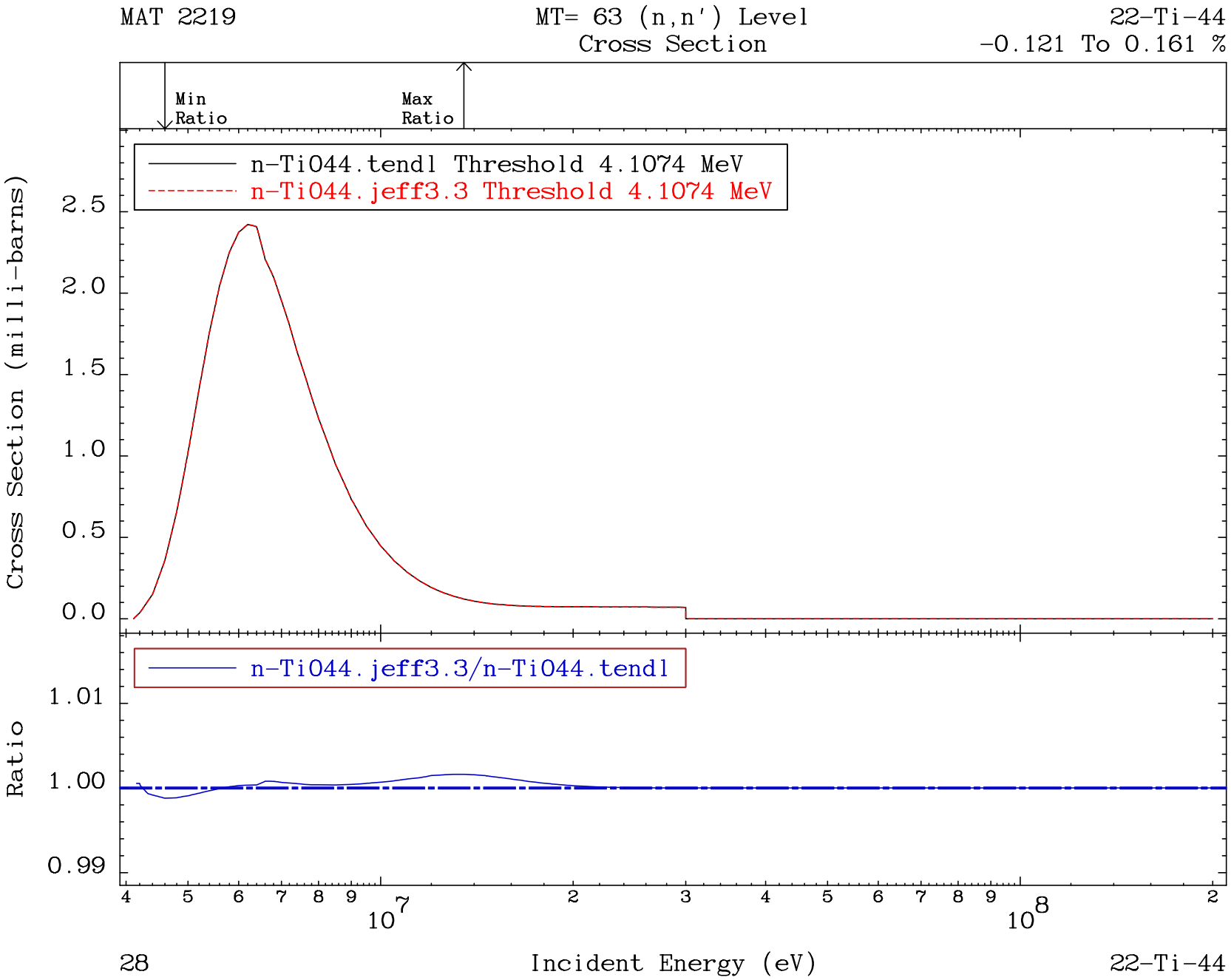

MAT 2219
MT= 58 (n,n') Level
Cross Section
22-Ti-44
-0.125 To 0.059 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 3.4937 MeV
n-Ti044.jeff3.3 Threshold 3.4937 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
22-Ti-44

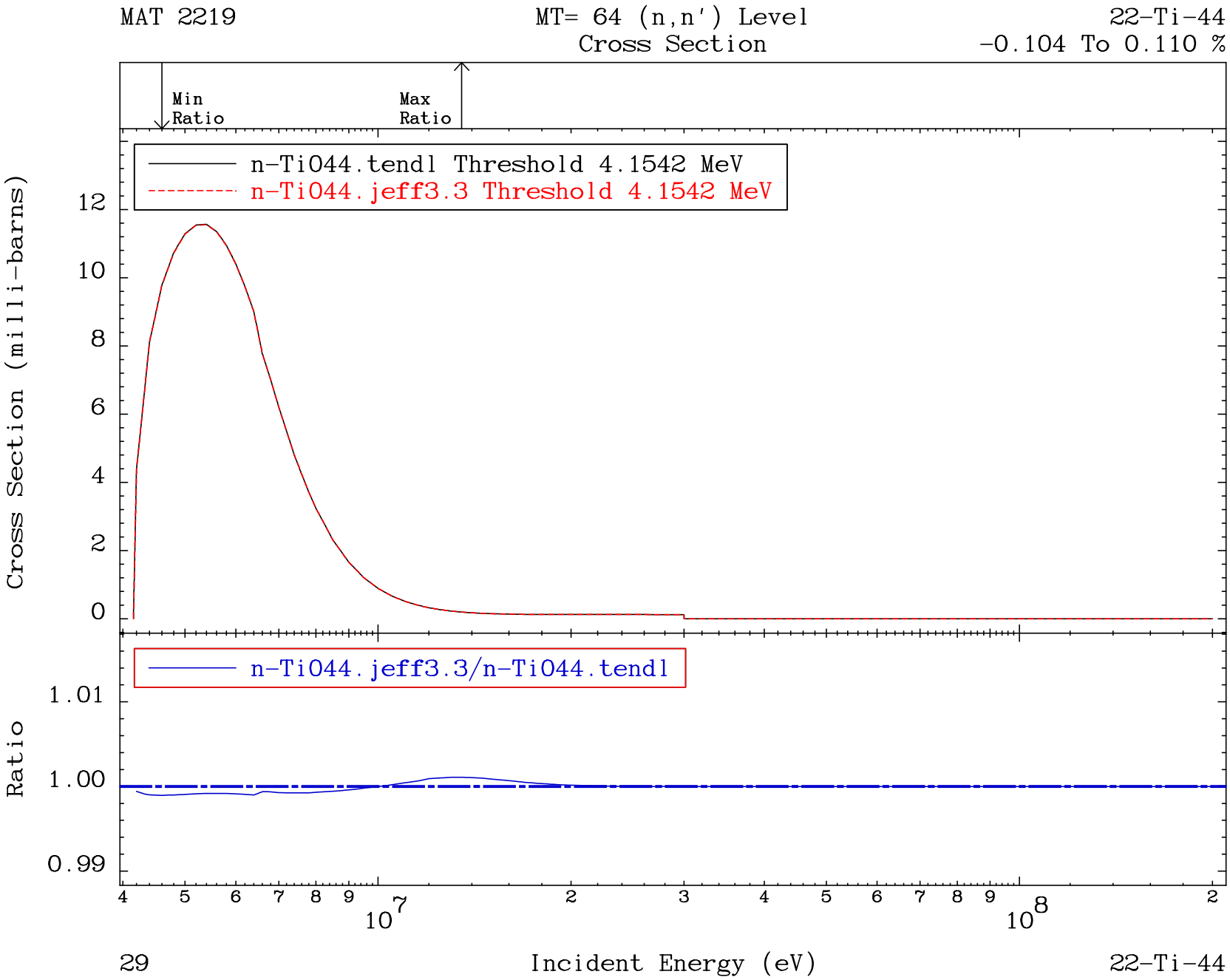

MAT 2219
MT= 59 (n,n') Level
Cross Section
22-Ti-44
-0.141 To 3.730 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 3.7295 MeV
n-Ti044.jeff3.3 Threshold 3.7295 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
1.02
1.04
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
22-Ti-44

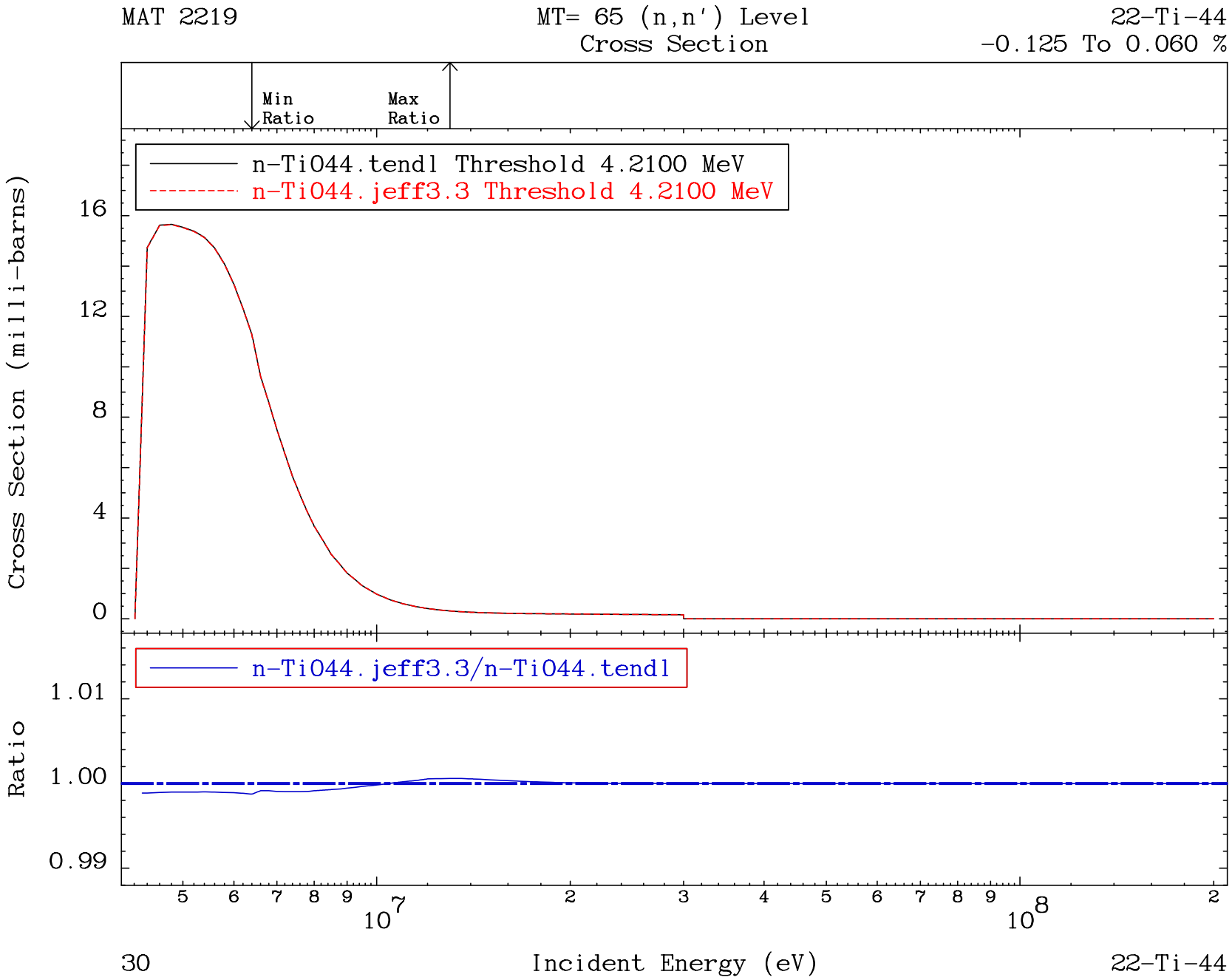

MAT 2219
MT= 60 (n,n') Level
Cross Section
22-Ti-44
-0.162 To 0.070 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 3.8421 MeV
n-Ti044.jeff3.3 Threshold 3.8421 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
22-Ti-44

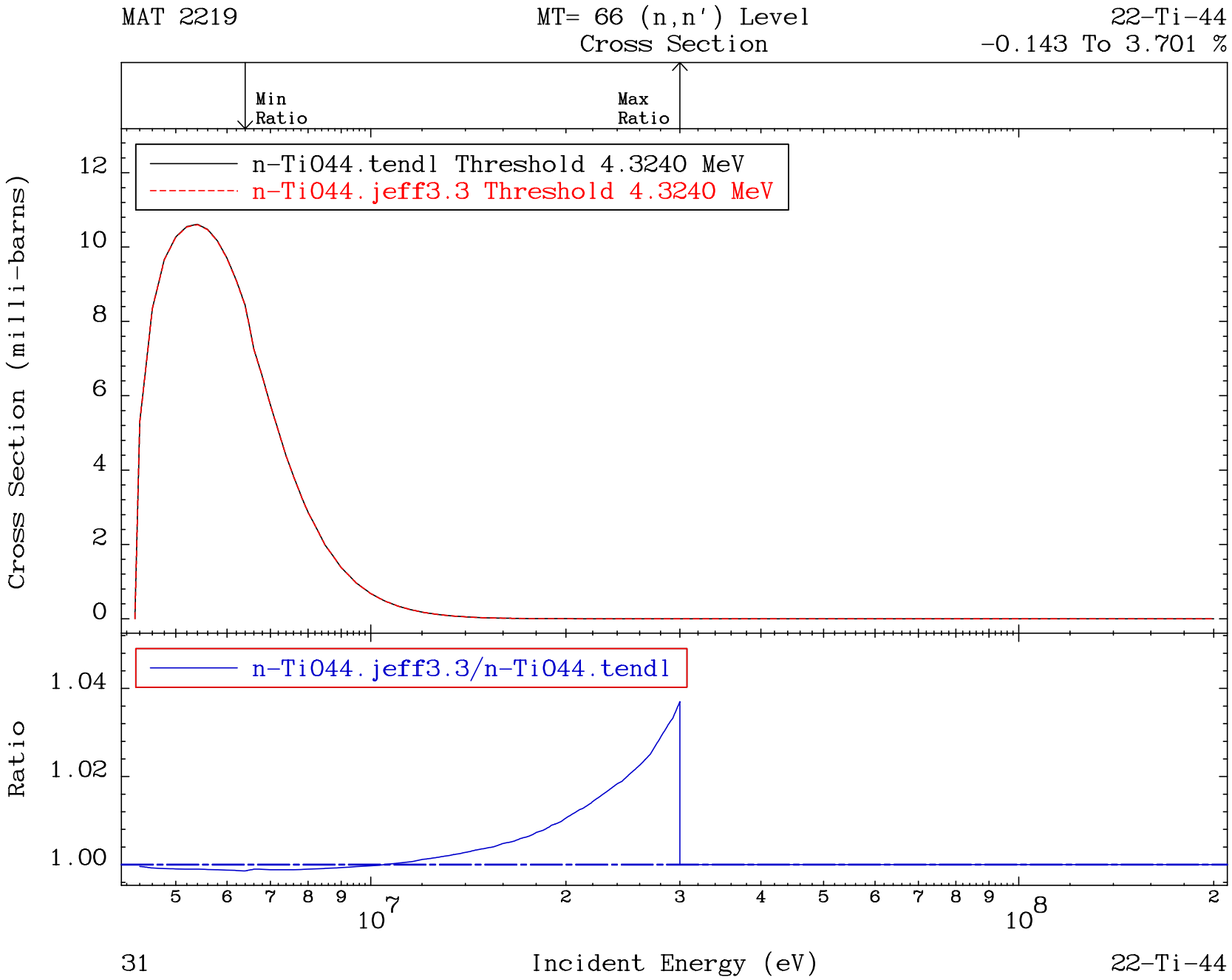

MAT 2219
MT= 61 (n,n') Level
Cross Section
22-Ti-44
-0.104 To 0.110 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 4.0332 MeV
n-Ti044.jeff3.3 Threshold 4.0332 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
22-Ti-44

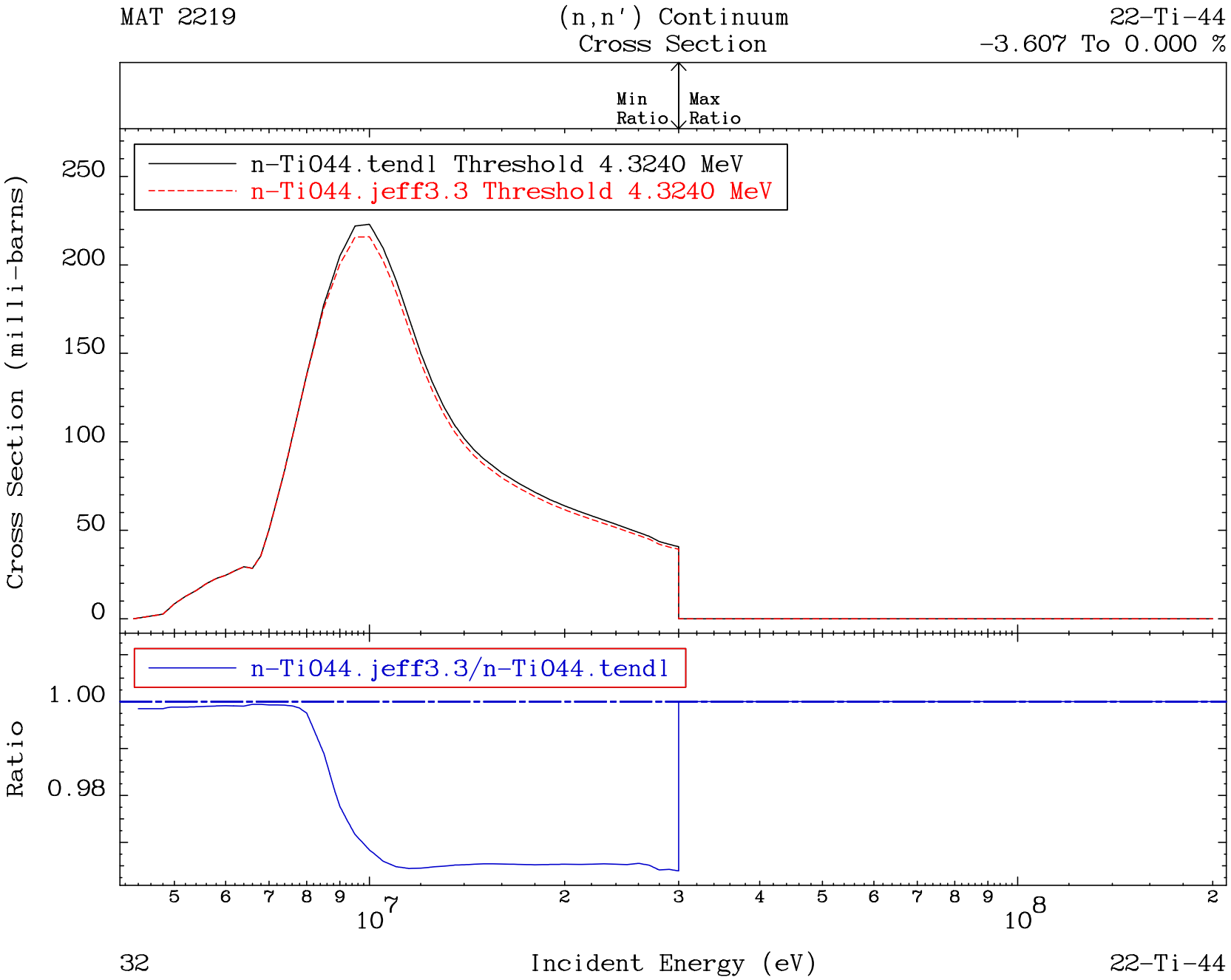

MAT 2219
MT= 62 (n,n') Level
Cross Section
22-Ti-44
-0.213 To 0.116 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 4.0713 MeV
n-Ti044.jeff3.3 Threshold 4.0713 MeV
Cross Section (milli-barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
27
22-Ti-44

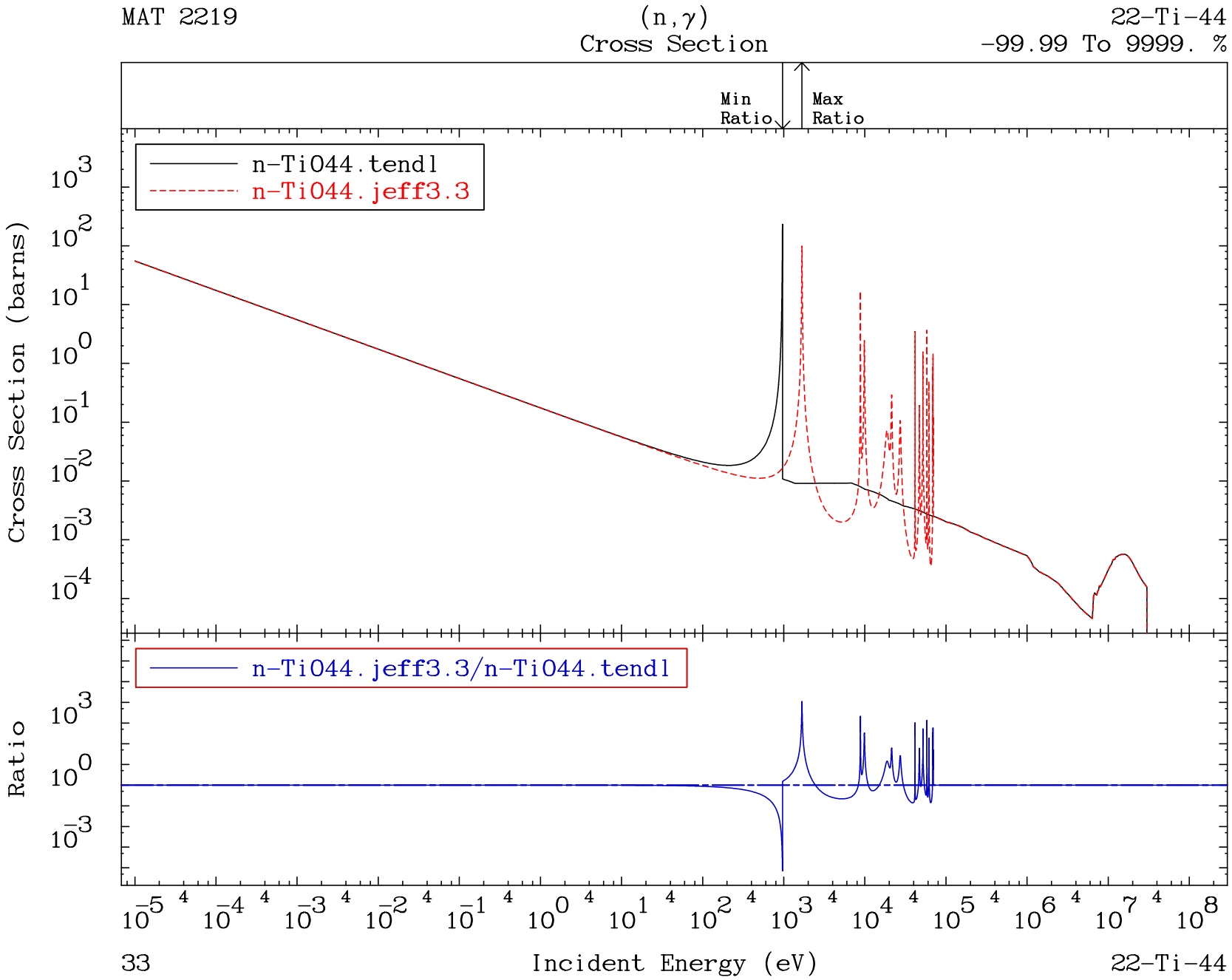

MAT 2219
MT= 63 (n,n') Level
Cross Section
22-Ti-44
-0.121 To 0.161 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 4.1074 MeV
n-Ti044.jeff3.3 Threshold 4.1074 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
22-Ti-44

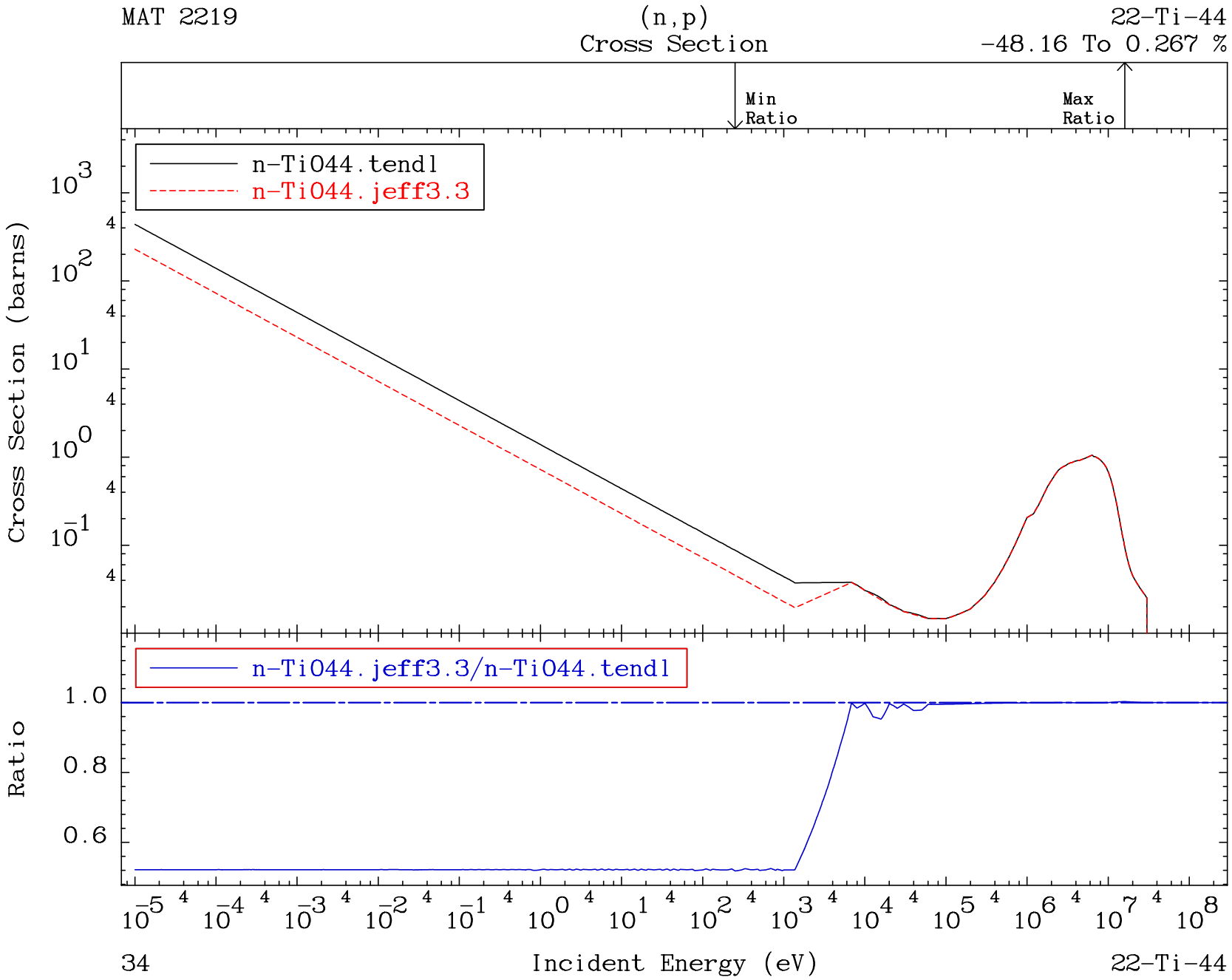

MAT 2219
MT= 64 (n,n') Level
Cross Section
22-Ti-44
-0.104 To 0.110 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 4.1542 MeV
n-Ti044.jeff3.3 Threshold 4.1542 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
22-Ti-44

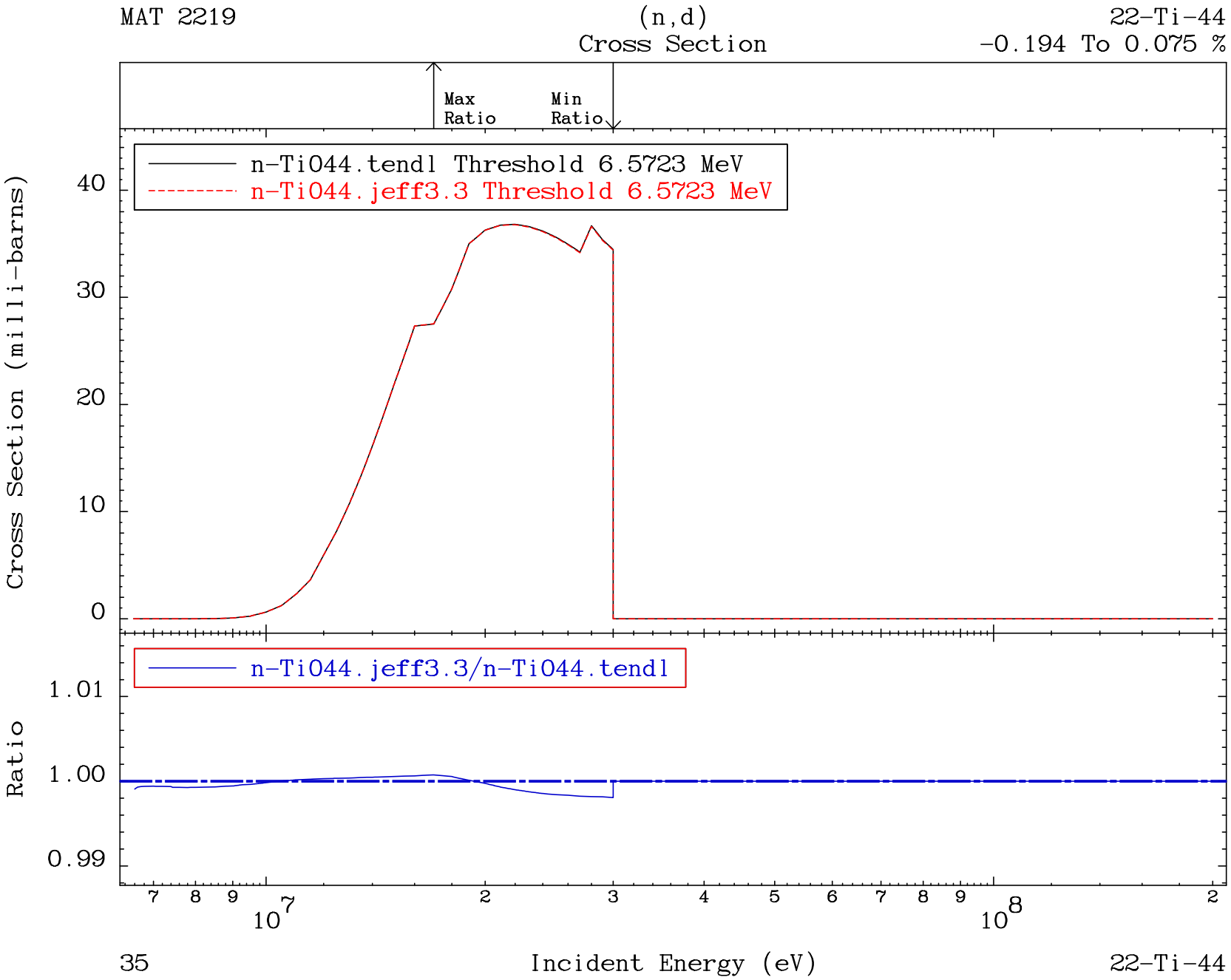

MAT 2219
MT= 65 (n,n') Level
Cross Section
22-Ti-44
-0.125 To 0.060 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 4.2100 MeV
n-Ti044.jeff3.3 Threshold 4.2100 MeV
Cross Section (milli-barns)
16
12
8
4
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
22-Ti-44

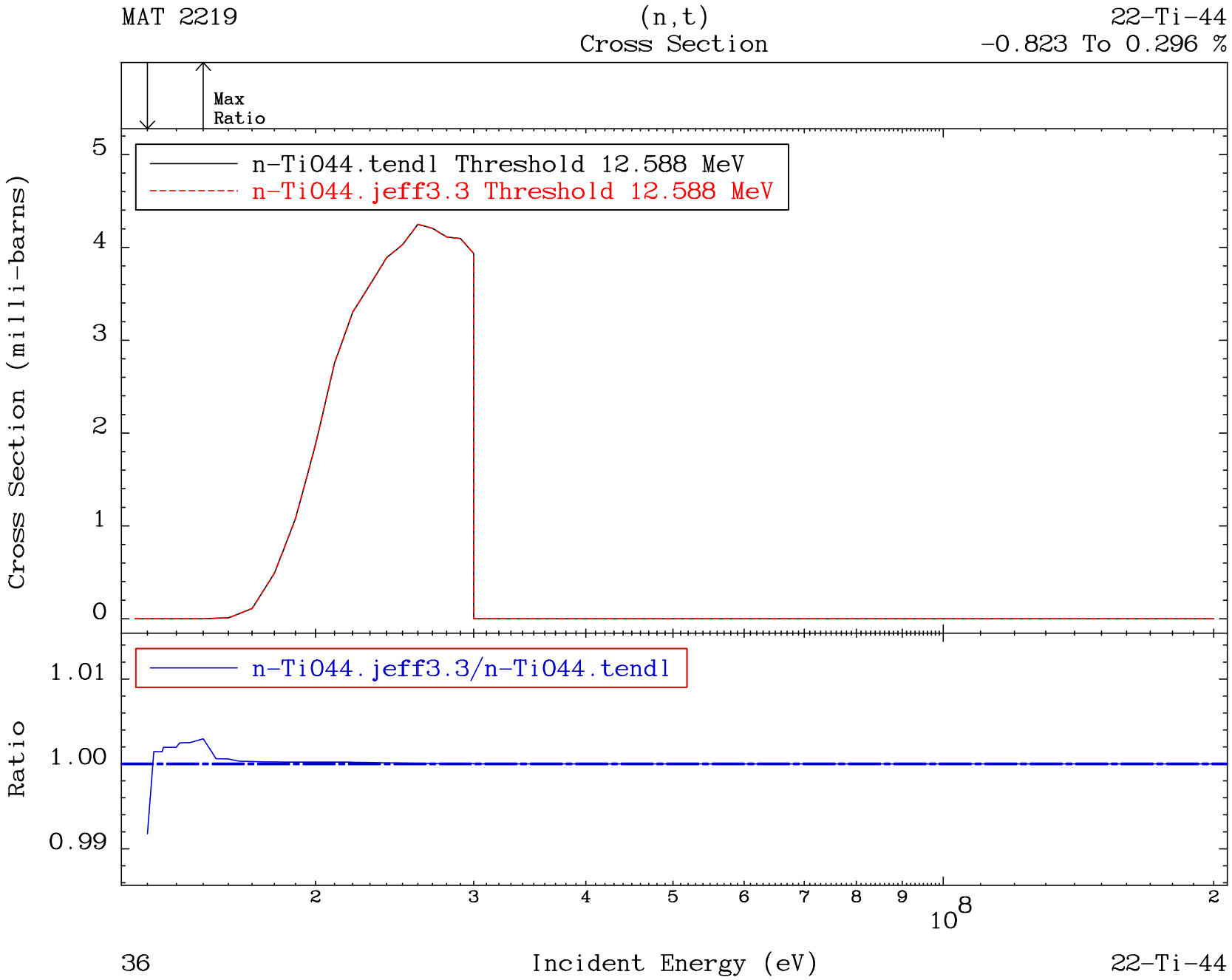

MAT 2219
MT= 66 (n,n') Level
Cross Section
22-Ti-44
-0.143 To 3.701 %
Min
Ratio
Max
Ratio
n-Ti044.tendl Threshold 4.3240 MeV
n-Ti044.jeff3.3 Threshold 4.3240 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
22-Ti-44

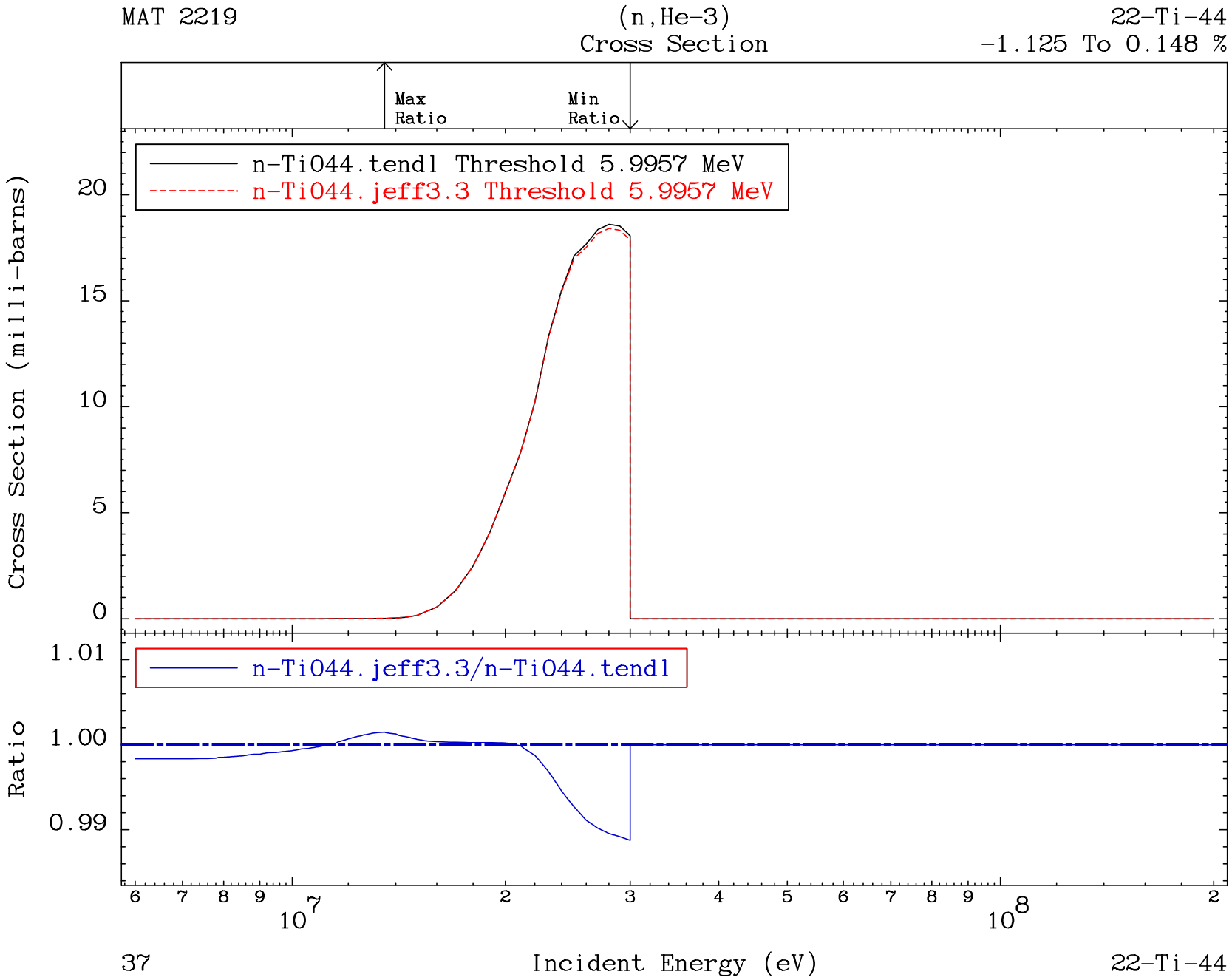

MAT 2219
(n,n') Continuum
Cross Section
22-Ti-44
-3.607 To 0.000 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 4.3240 MeV
n-Ti044.jeff3.3 Threshold 4.3240 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
0.98
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
22-Ti-44

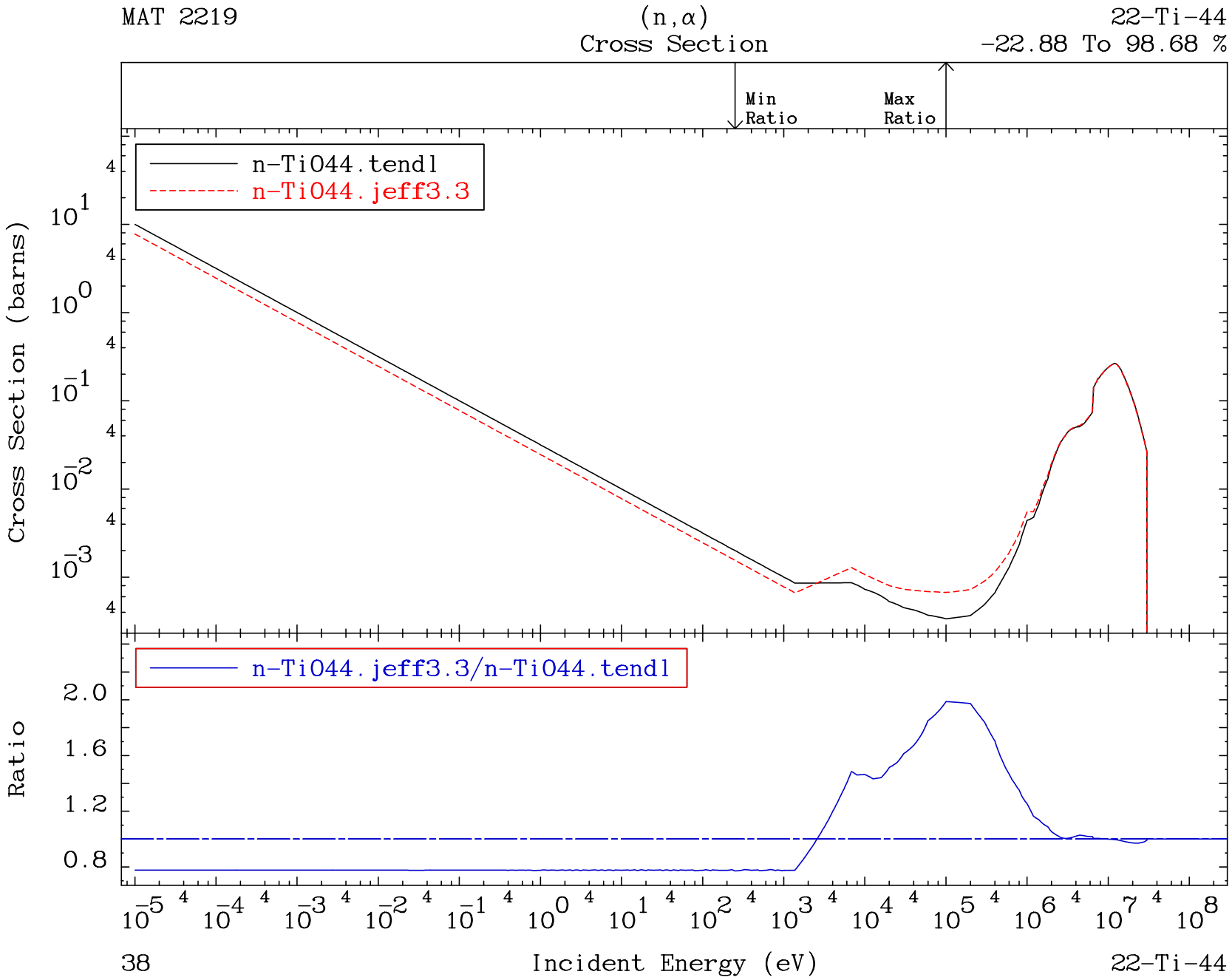

MAT 2219
(n,γ)
Cross Section
22-Ti-44
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
33
Incident Energy (eV)
22-Ti-44

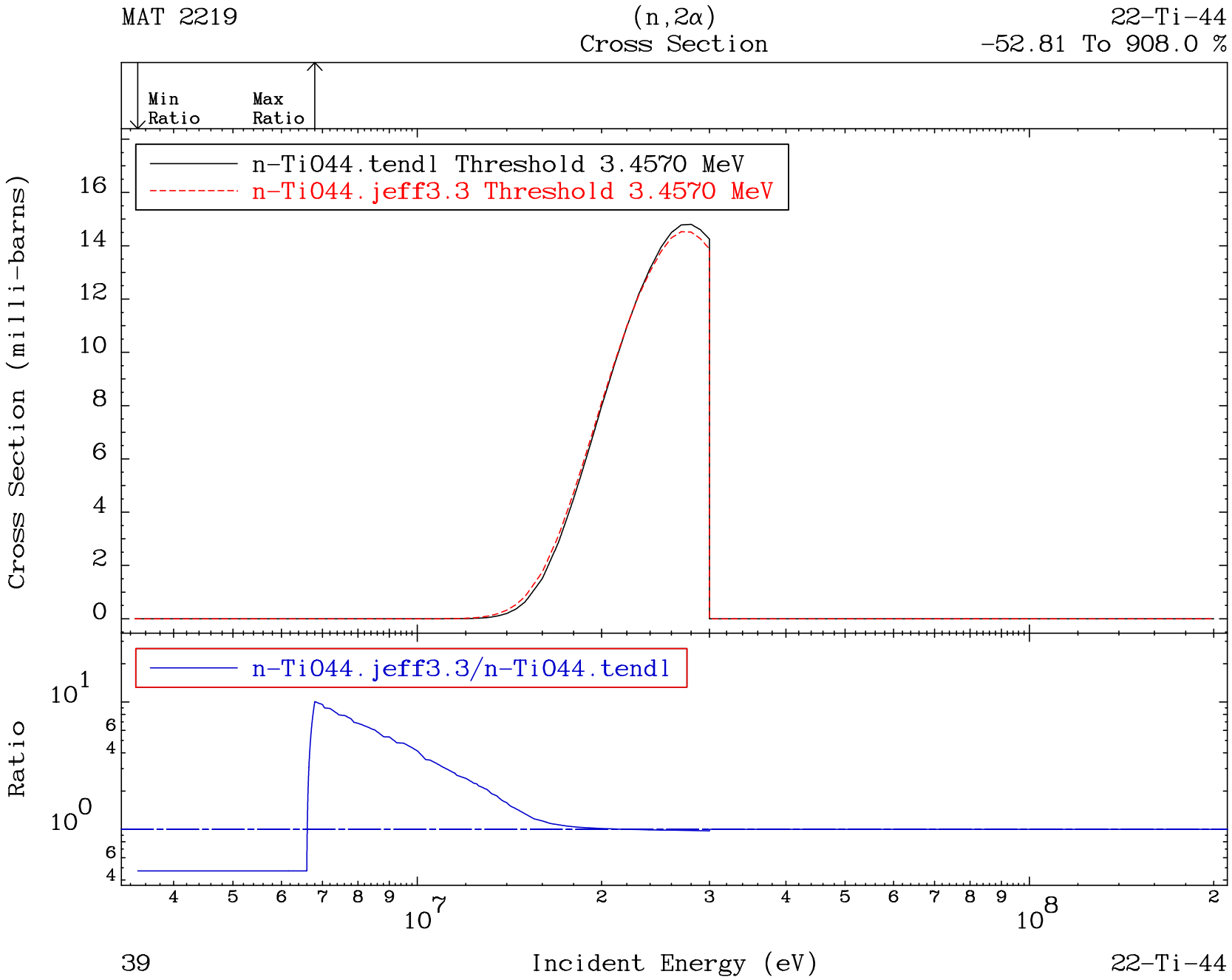

MAT 2219
(n,p)
Cross Section
22-Ti-44
-48.16 To 0.267 %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
34
22-Ti-44

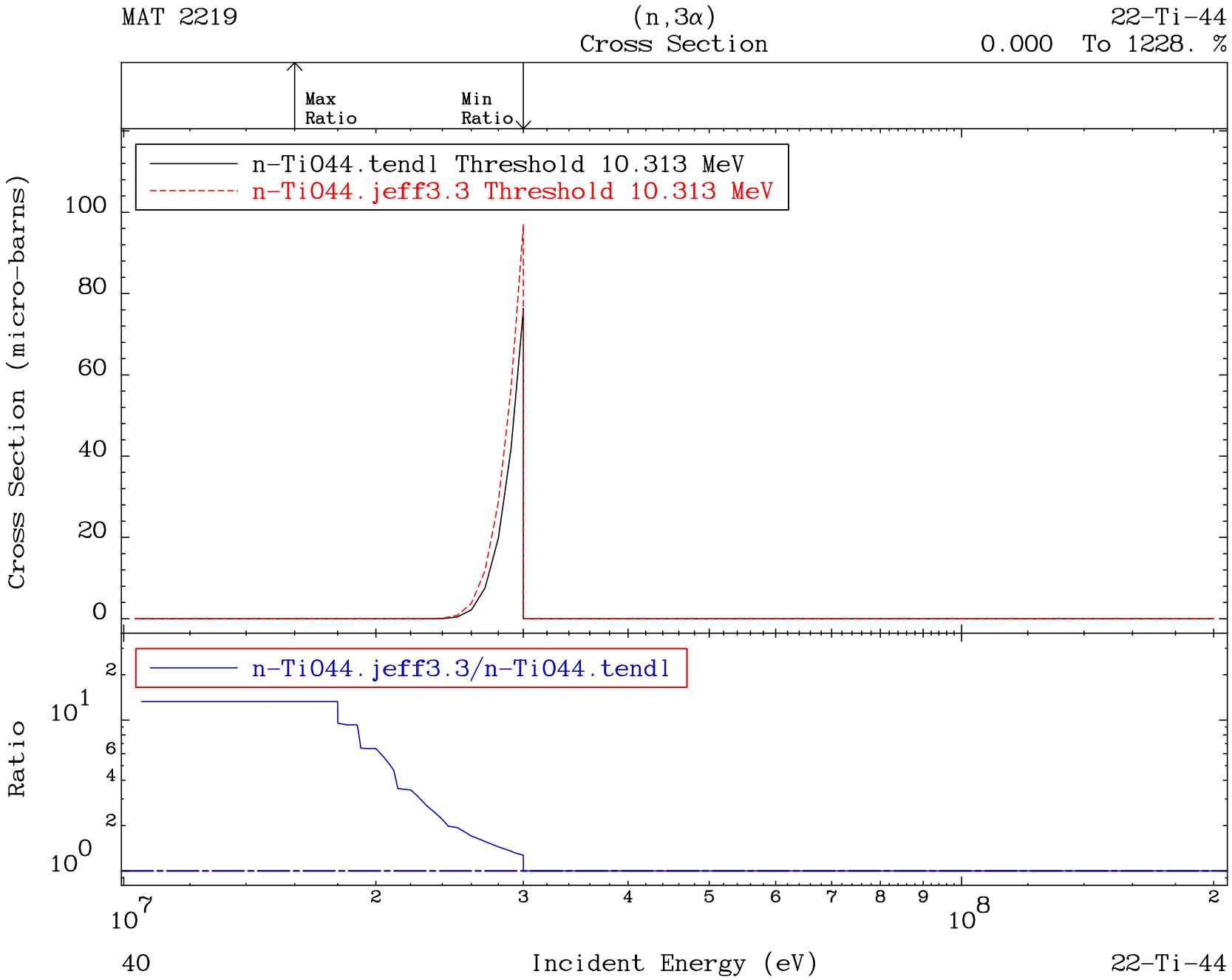

MAT 2219
(n,d)
Cross Section
22-Ti-44
-0.194 To 0.075 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 6.5723 MeV
n-Ti044.jeff3.3 Threshold 6.5723 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
22-Ti-44

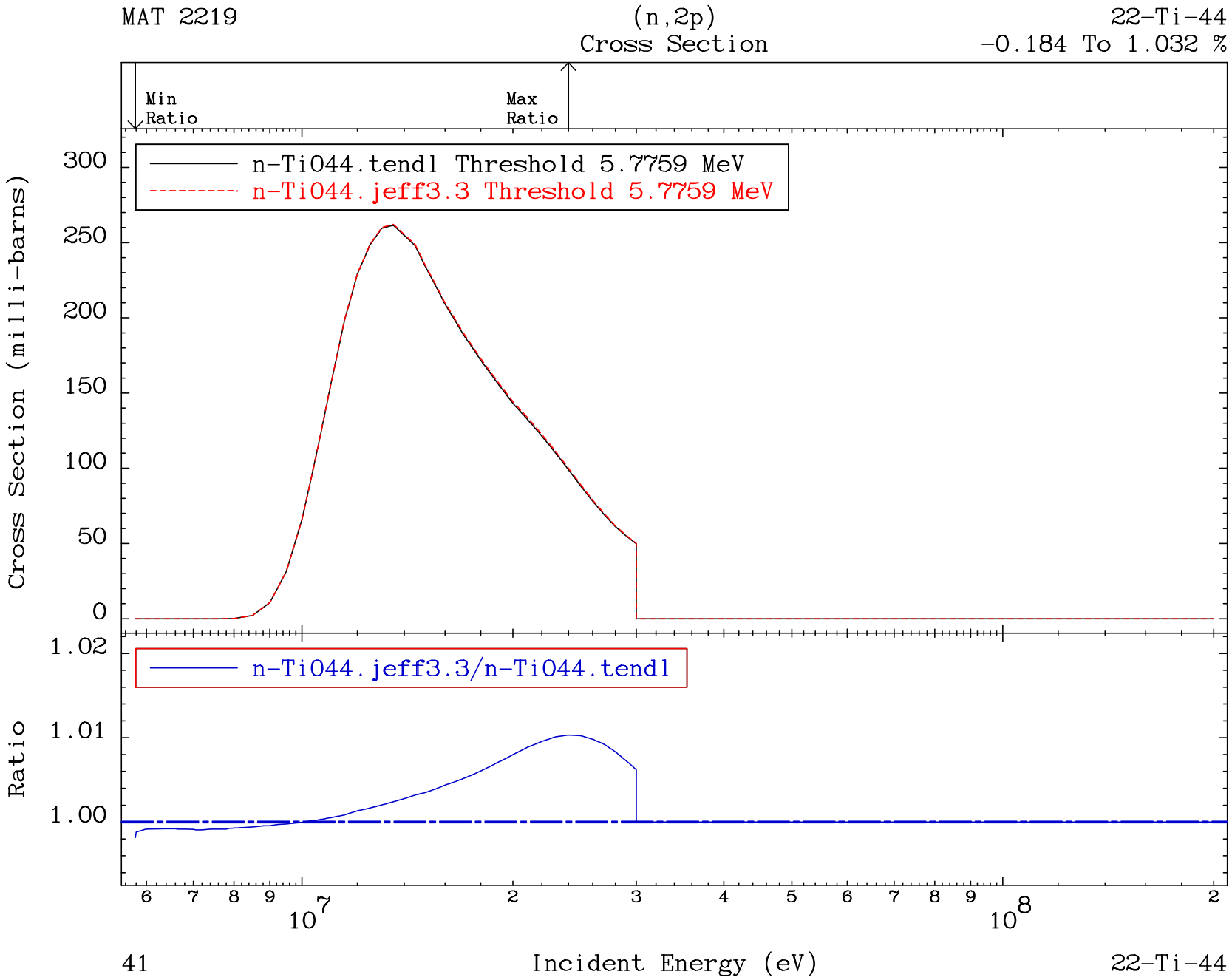

MAT 2219
(n,t)
Cross Section
22-Ti-44
-0.823 To 0.296 %
Max
Ratio
n-Ti044.tendl Threshold 12.588 MeV
n-Ti044.jeff3.3 Threshold 12.588 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
2
10^8
36
Incident Energy (eV)
22-Ti-44

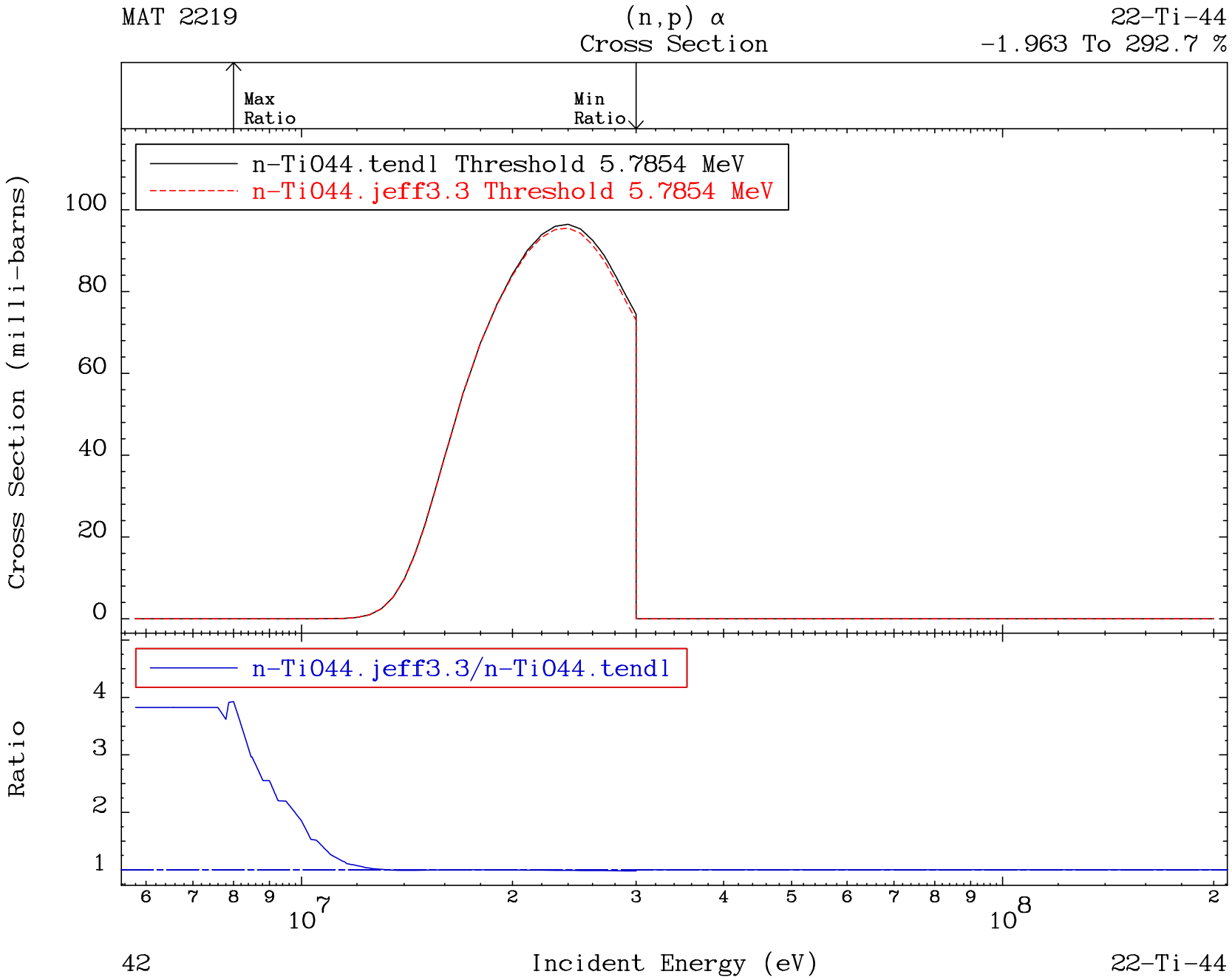

MAT 2219
(n,He-3)
Cross Section
22-Ti-44
-1.125 To 0.148 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 5.9957 MeV
n-Ti044.jeff3.3 Threshold 5.9957 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
22-Ti-44

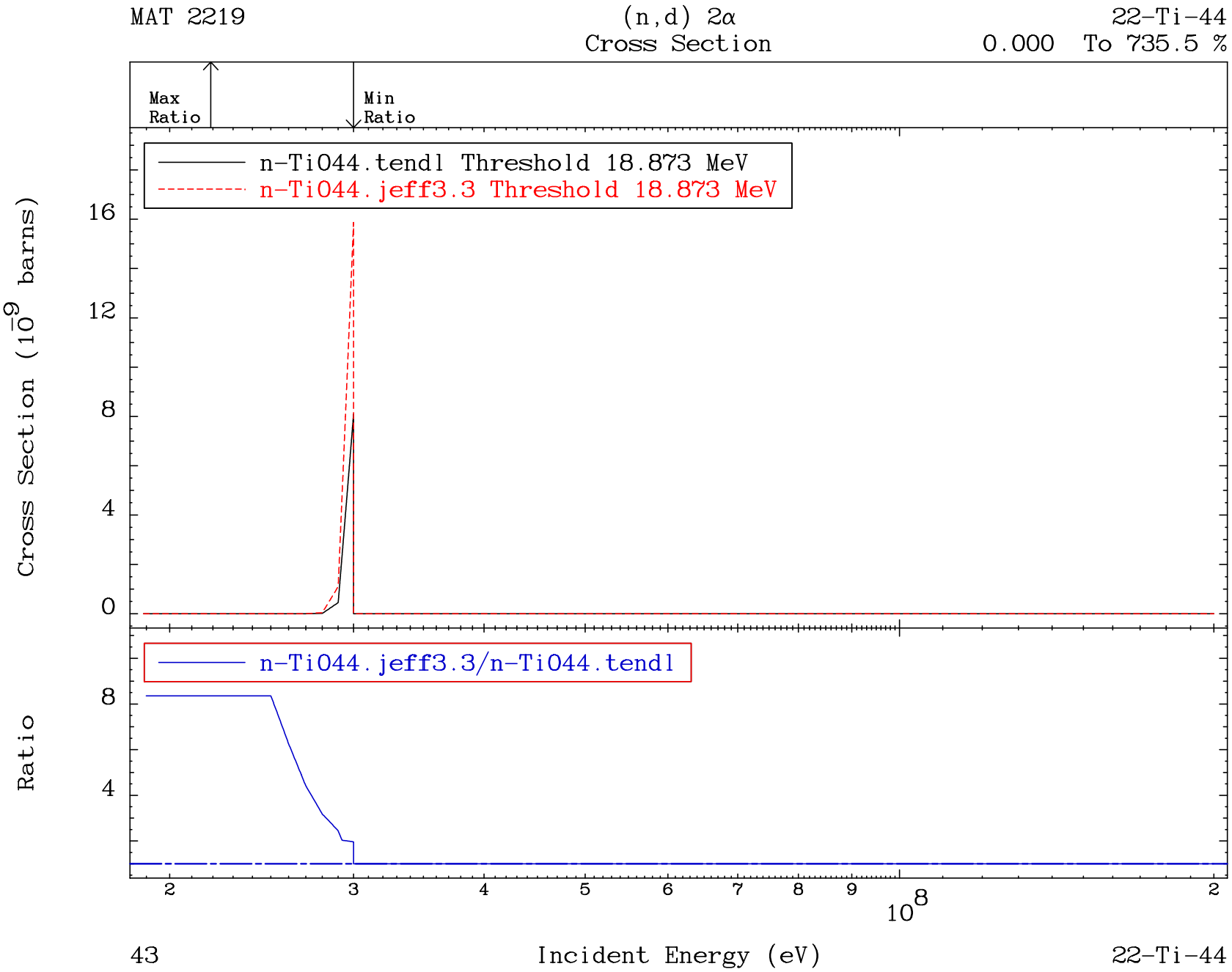

MAT 2219
(n,α)
Cross Section
22-Ti-44
-22.88 To 98.68 %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
38
22-Ti-44

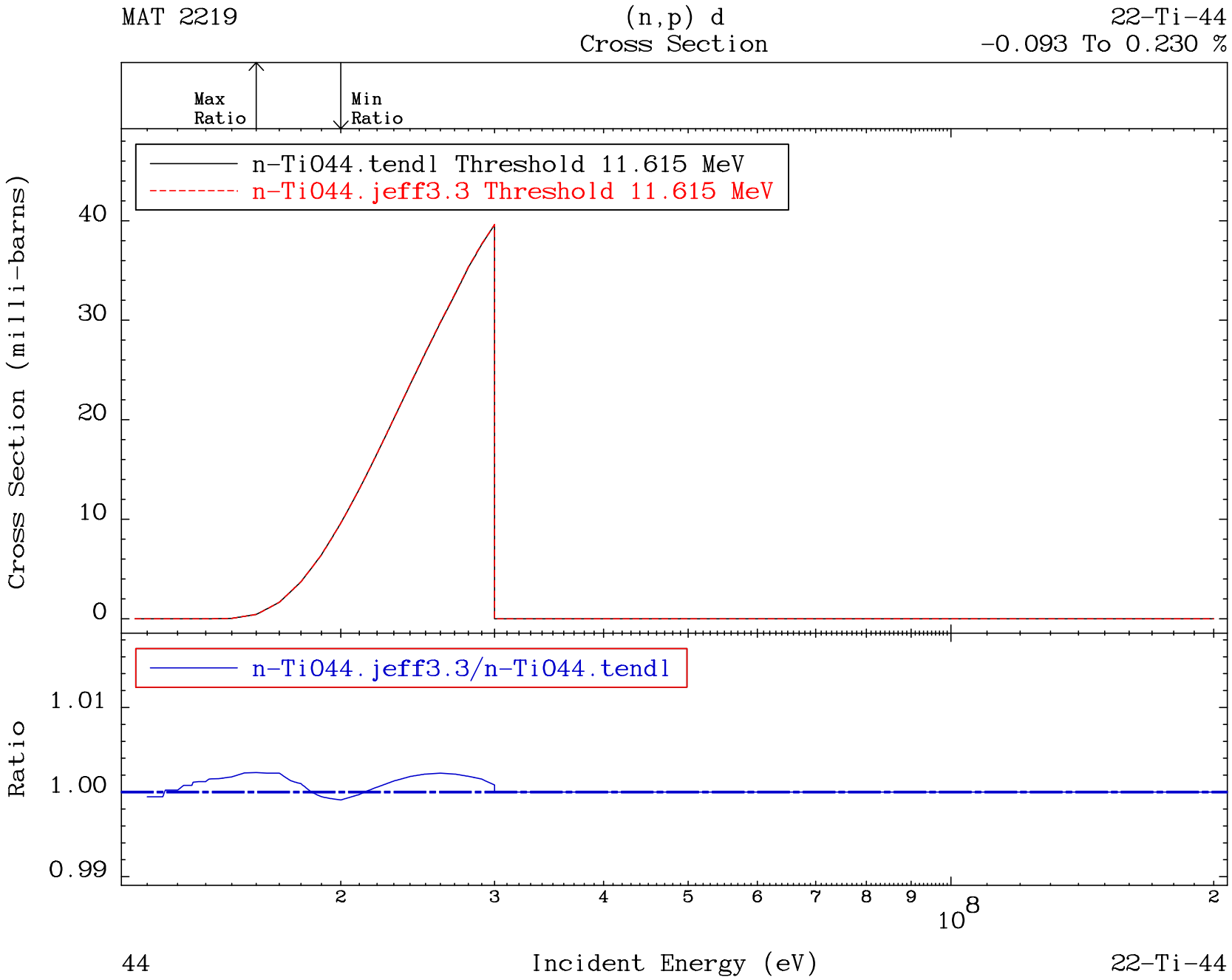

MAT 2219
(n,2α)
Cross Section
22-Ti-44
-52.81 To 908.0 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 3.4570 MeV
n-Ti044.jeff3.3 Threshold 3.4570 MeV
Cross Section (milli-barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
39
22-Ti-44

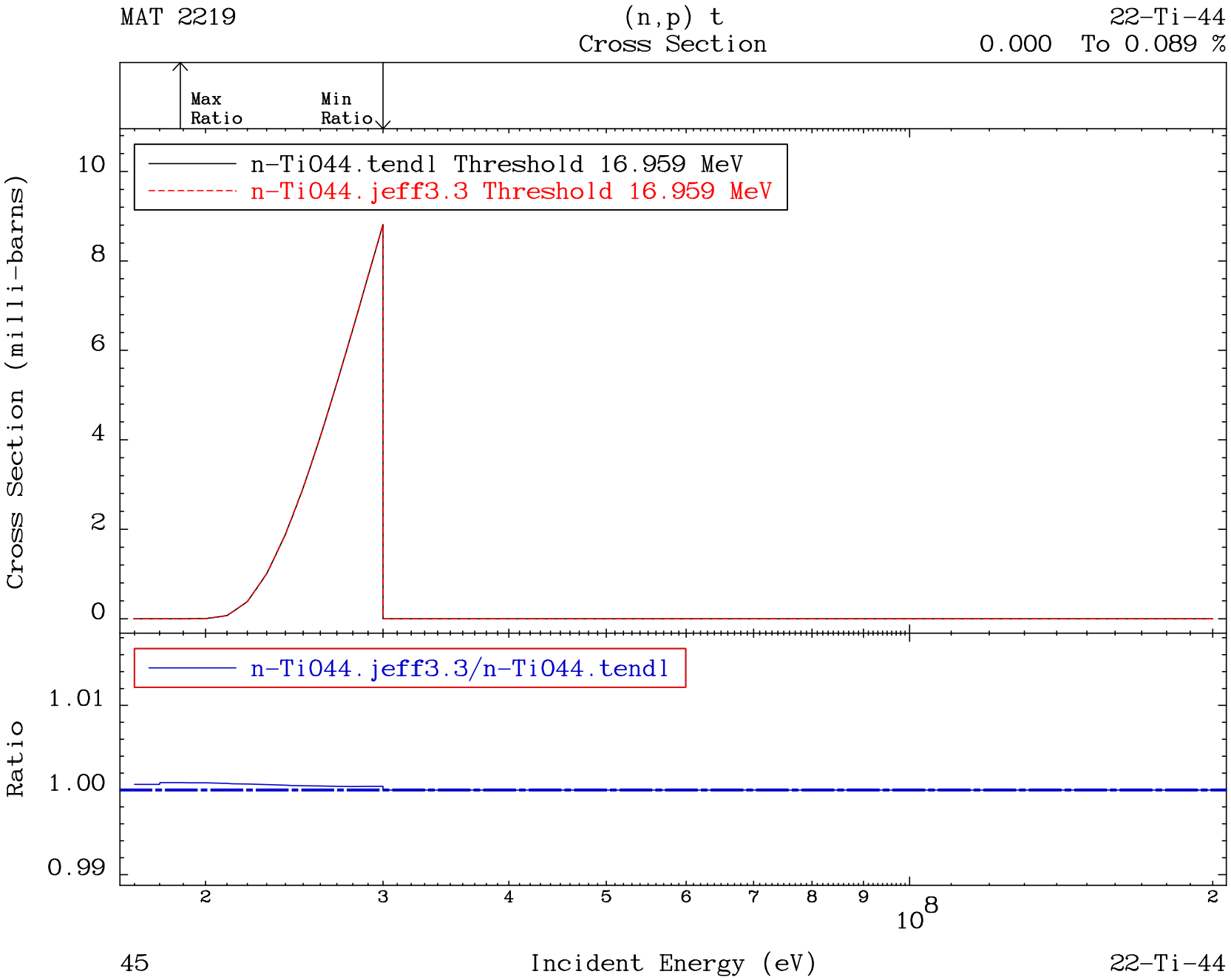

MAT 2219
(n,3α)
Cross Section
22-Ti-44
0.000 To 1228. %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 10.313 MeV
n-Ti044.jeff3.3 Threshold 10.313 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
2
10^1
6
4
2
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
40
Incident Energy (eV)
22-Ti-44

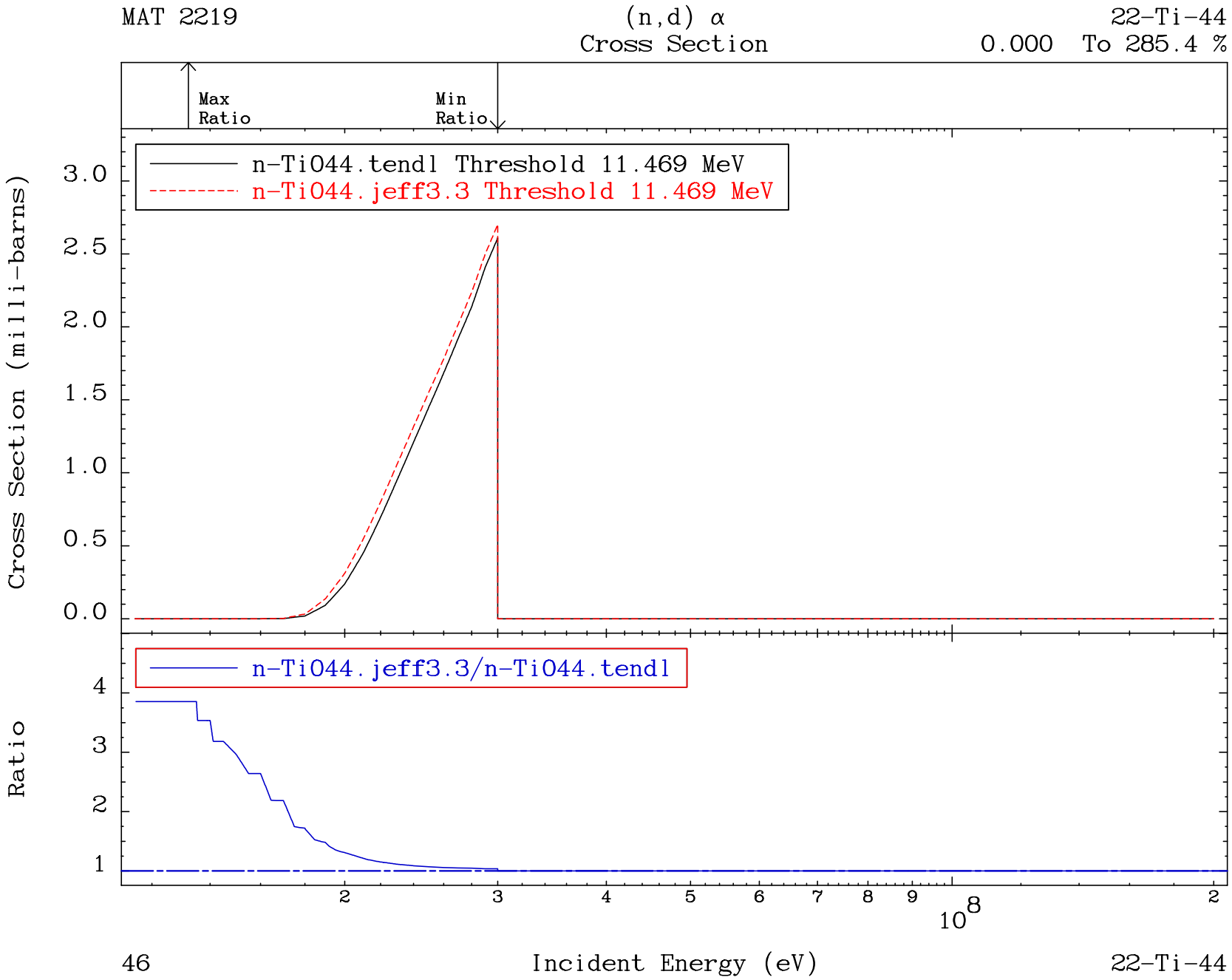

MAT 2219
(n,2p)
Cross Section
22-Ti-44
-0.184 To 1.032 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 5.7759 MeV
n-Ti044.jeff3.3 Threshold 5.7759 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
22-Ti-44

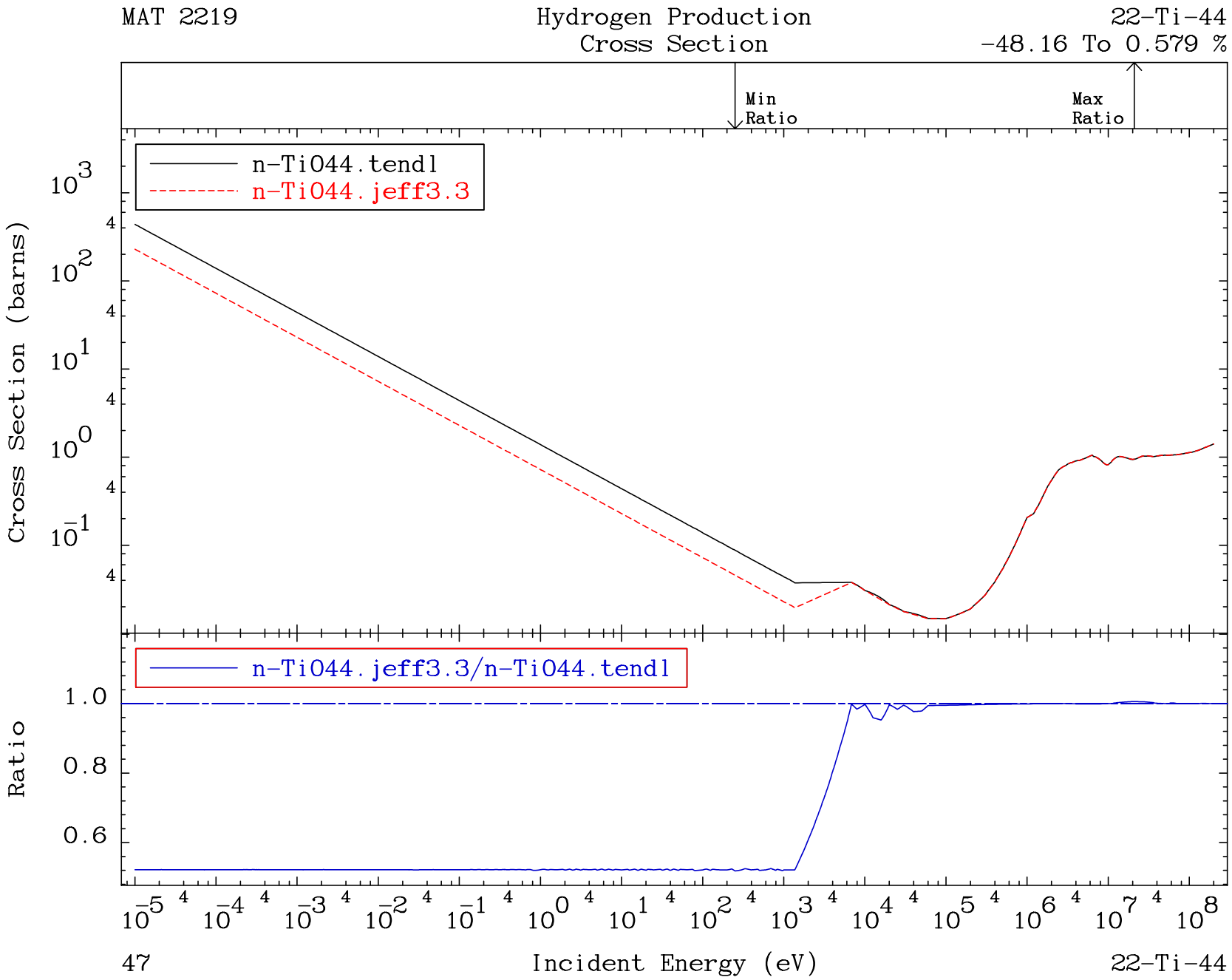

MAT 2219
(n,p) α
Cross Section
22-Ti-44
-1.963 To 292.7 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 5.7854 MeV
n-Ti044.jeff3.3 Threshold 5.7854 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
4
3
2
1
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
22-Ti-44

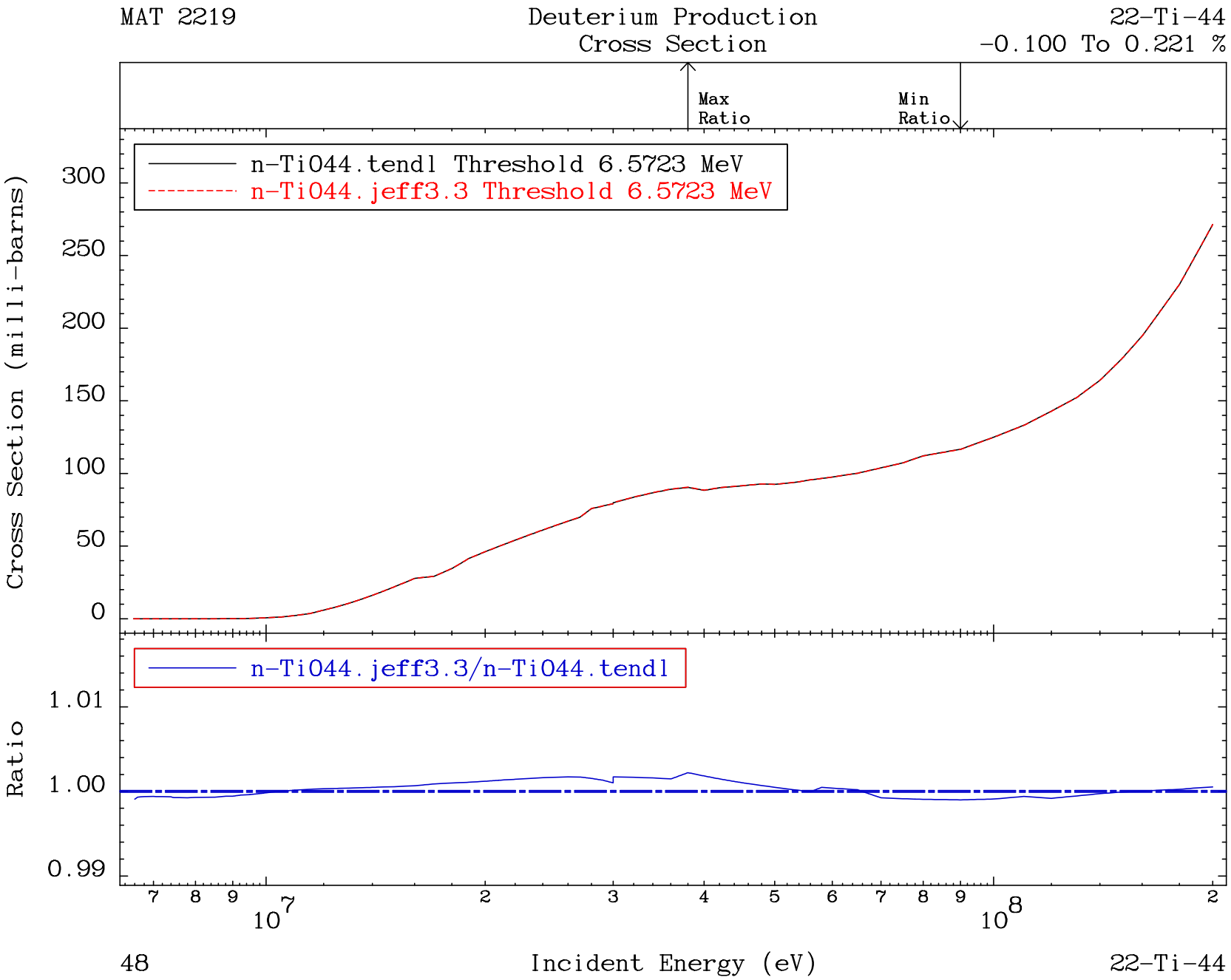

MAT 2219
(n,d) 2α
Cross Section
22-Ti-44
0.000 To 735.5 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 18.873 MeV
n-Ti044.jeff3.3 Threshold 18.873 MeV
Cross Section (10^-9 barns)
16
12
8
4
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
22-Ti-44

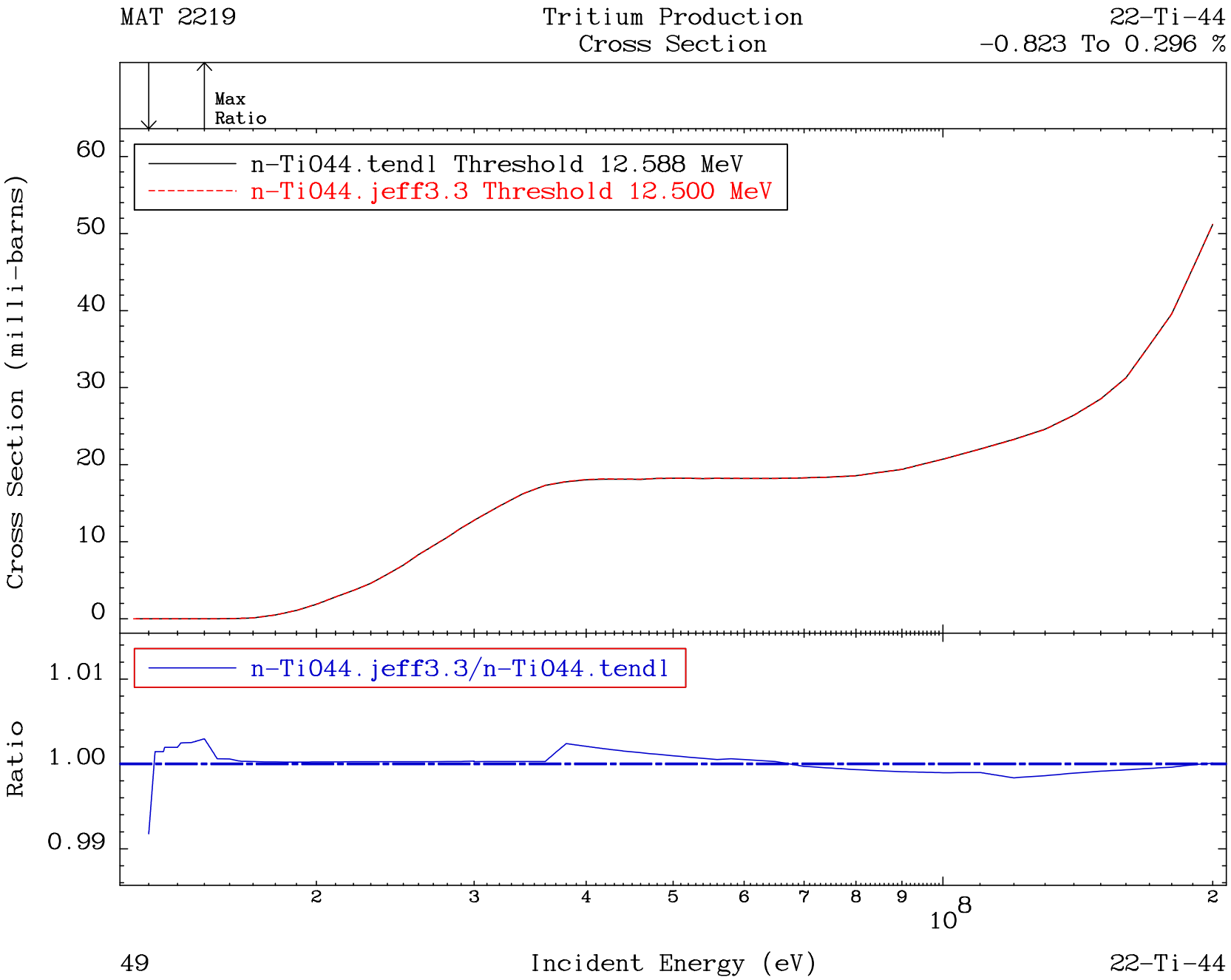

MAT 2219
(n,p) d
Cross Section
22-Ti-44
-0.093 To 0.230 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 11.615 MeV
n-Ti044.jeff3.3 Threshold 11.615 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
22-Ti-44

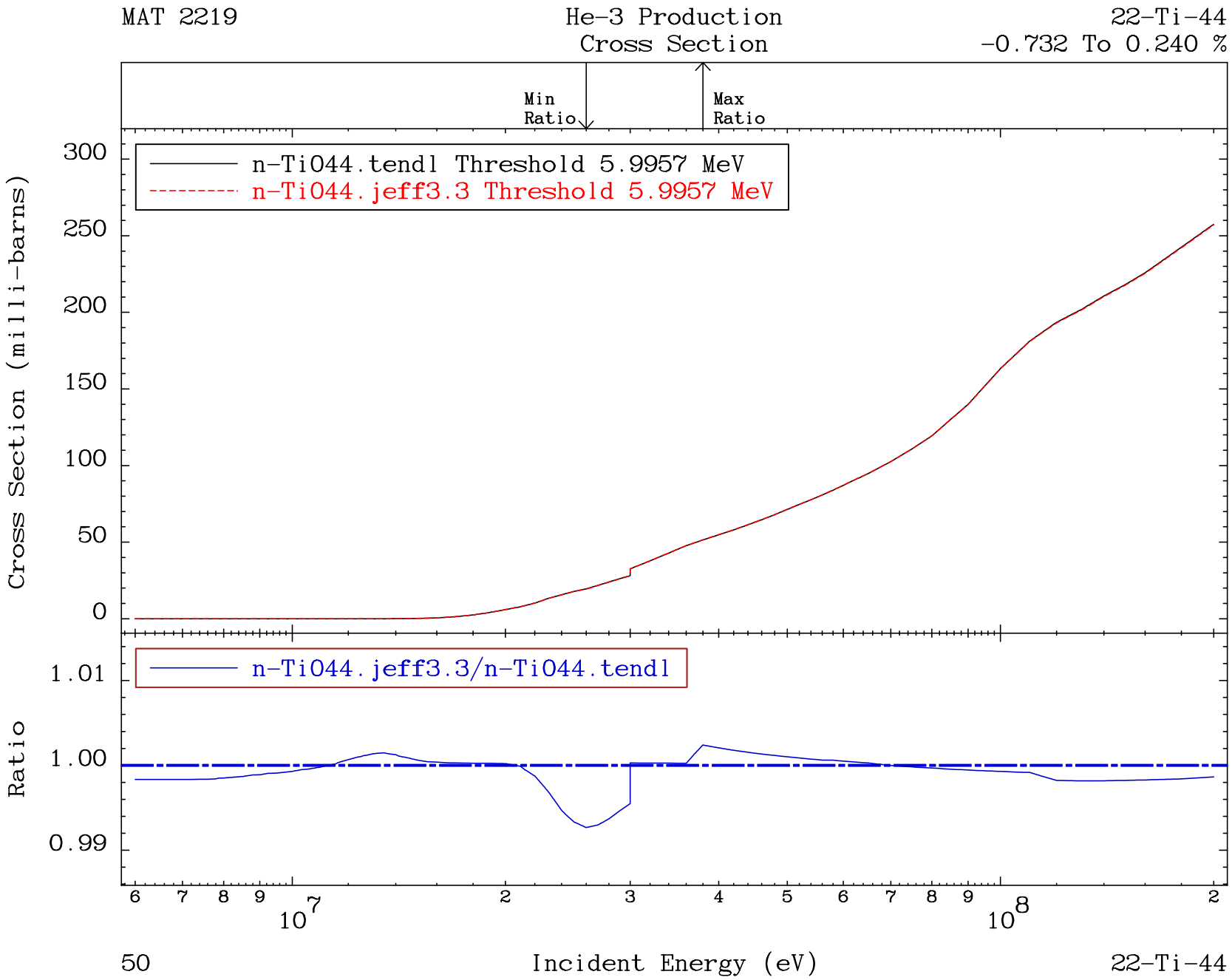

MAT 2219
(n,p) t
Cross Section
22-Ti-44
0.000 To 0.089 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 16.959 MeV
n-Ti044.jeff3.3 Threshold 16.959 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
22-Ti-44

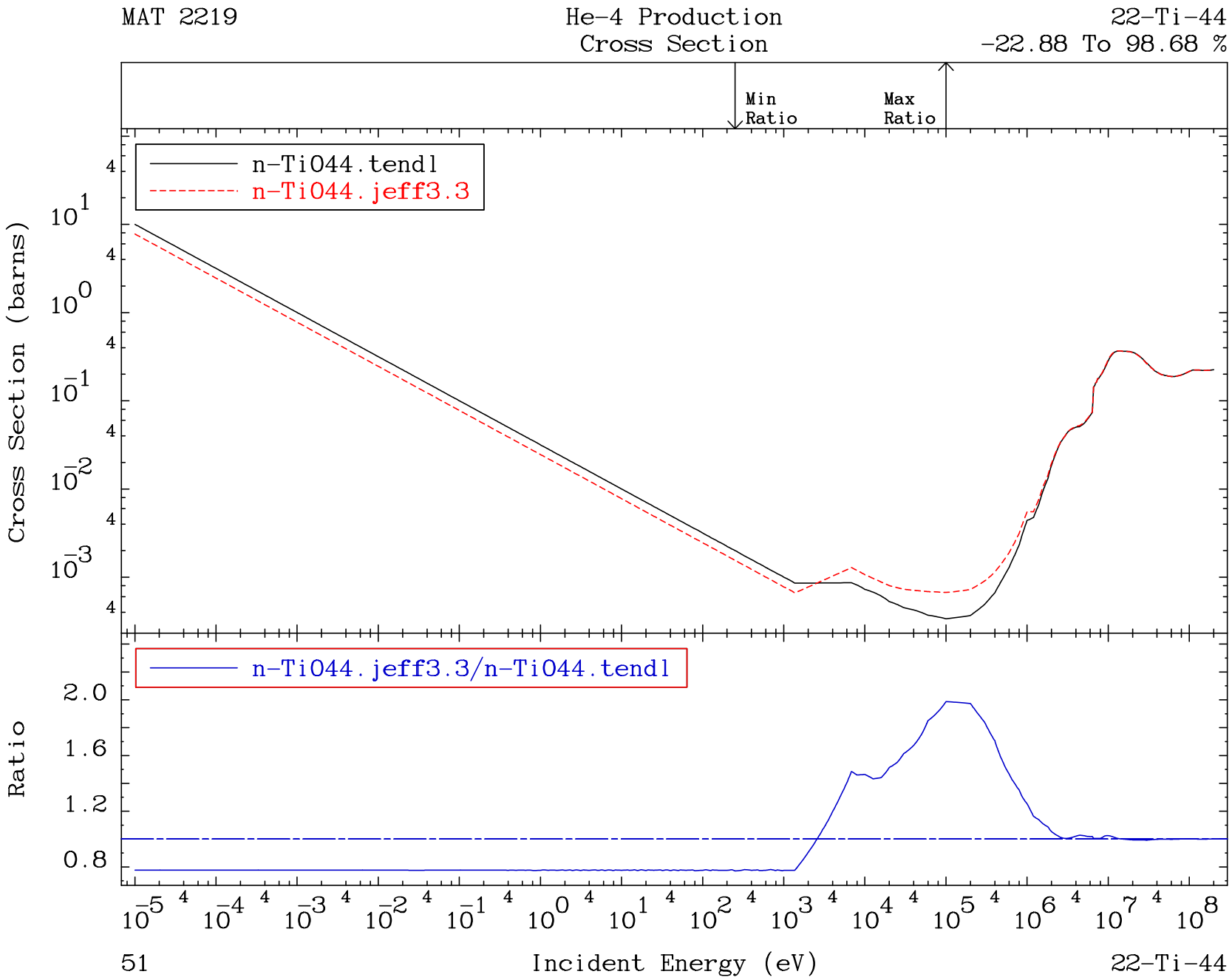

MAT 2219
(n,d) α
Cross Section
22-Ti-44
0.000 To 285.4 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 11.469 MeV
n-Ti044.jeff3.3 Threshold 11.469 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
4
3
2
1
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
22-Ti-44

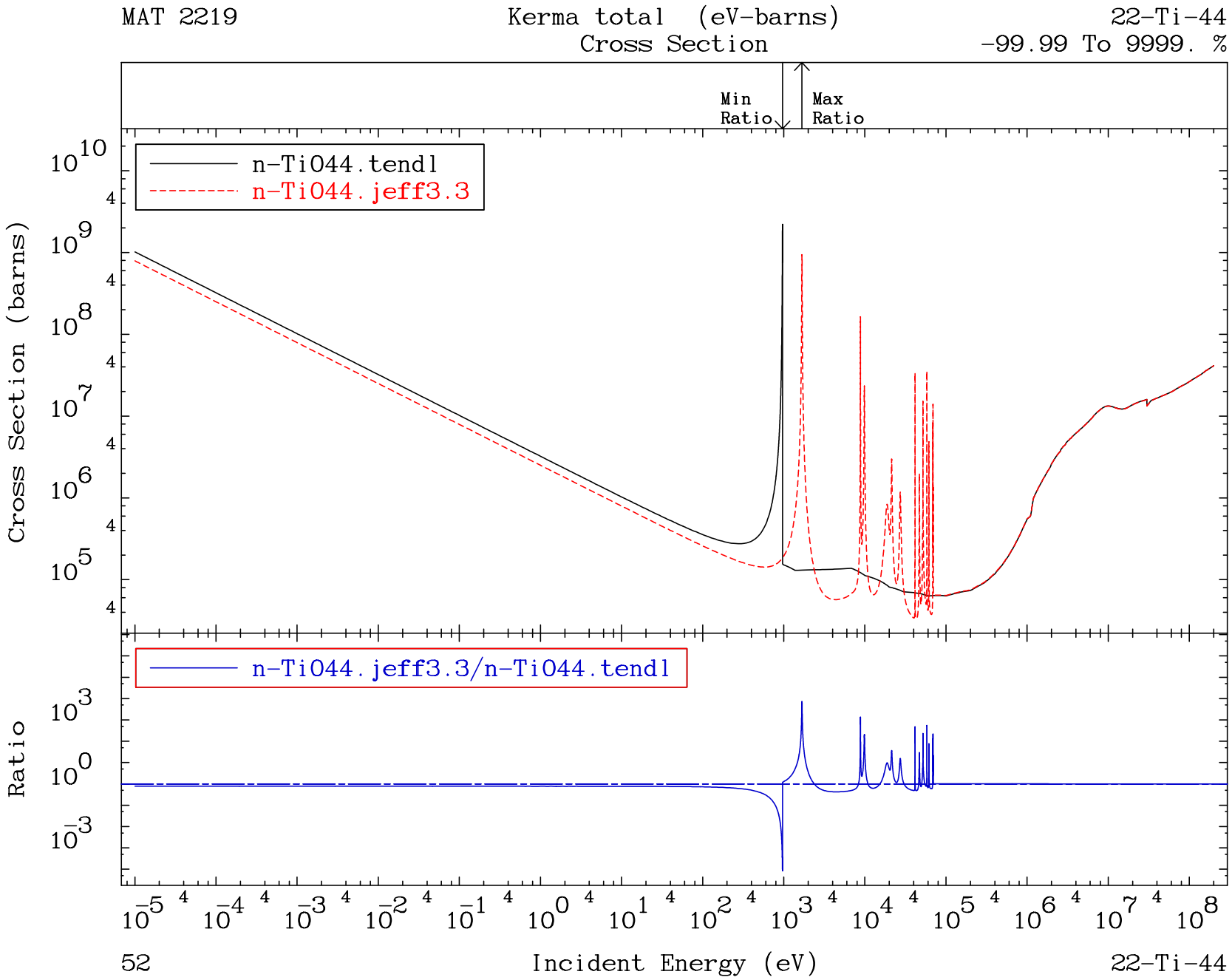

MAT 2219
Hydrogen Production
Cross Section
22-Ti-44
-48.16 To 0.579 %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
47
22-Ti-44

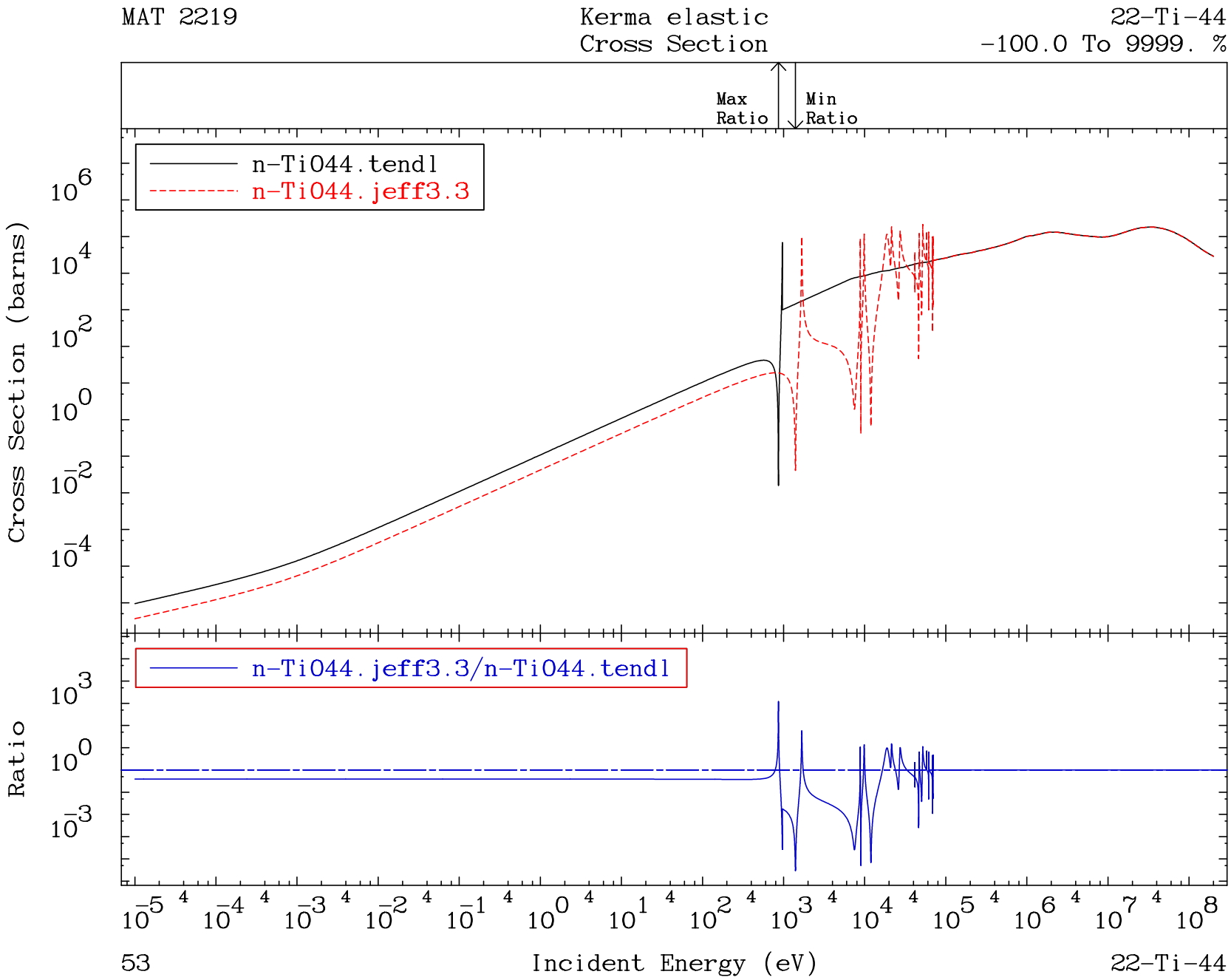

MAT 2219
Deuterium Production
Cross Section
22-Ti-44
-0.100 To 0.221 %
Max
Ratio
Min
Ratio
n-Ti044.tendl Threshold 6.5723 MeV
n-Ti044.jeff3.3 Threshold 6.5723 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
22-Ti-44

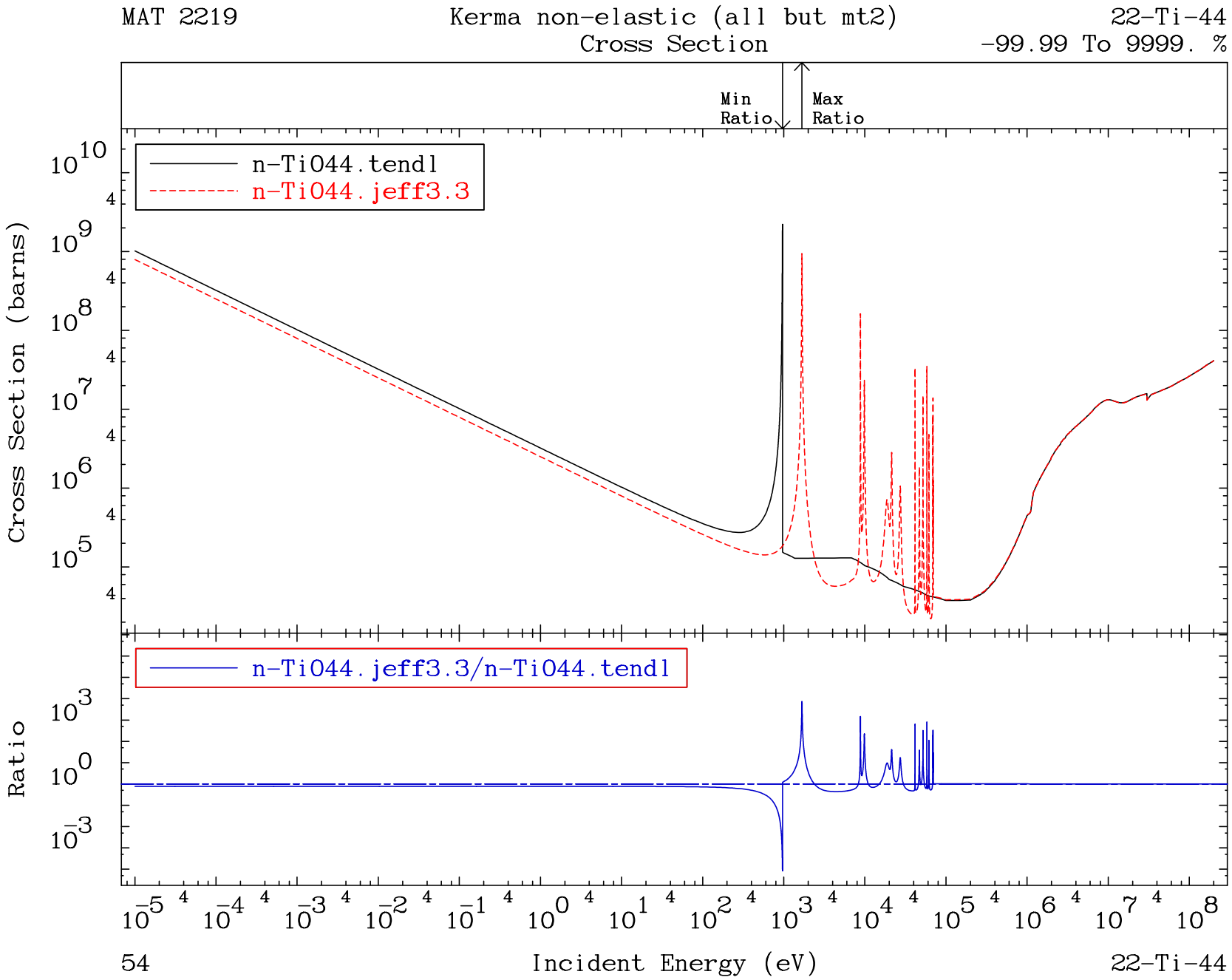

MAT 2219
Tritium Production
Cross Section
22-Ti-44
-0.823 To 0.296 %
Max
Ratio
n-Ti044.tendl Threshold 12.588 MeV
n-Ti044.jeff3.3 Threshold 12.500 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
22-Ti-44

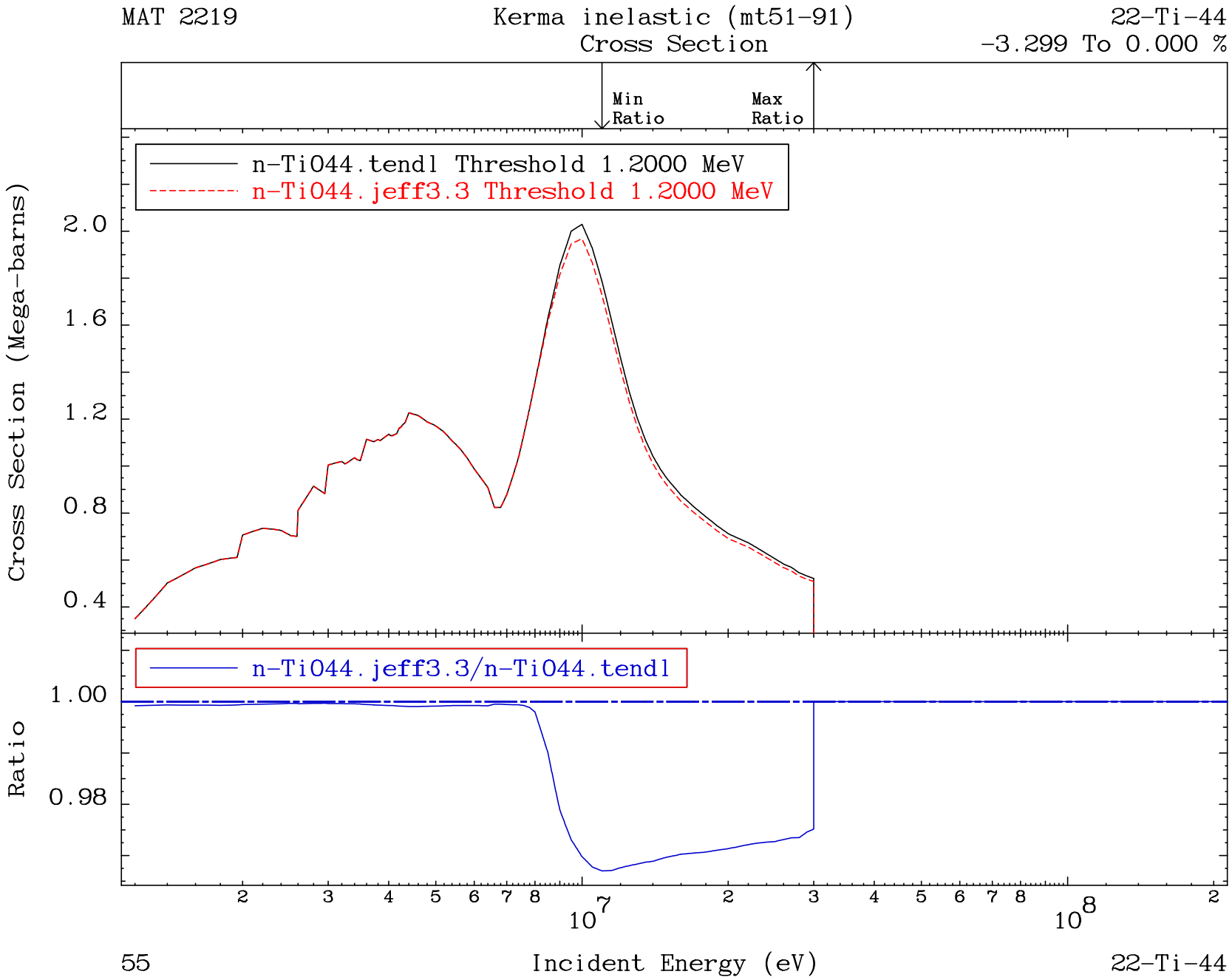

MAT 2219
He-3 Production
Cross Section
22-Ti-44
-0.732 To 0.240 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 5.9957 MeV
n-Ti044.jeff3.3 Threshold 5.9957 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
22-Ti-44

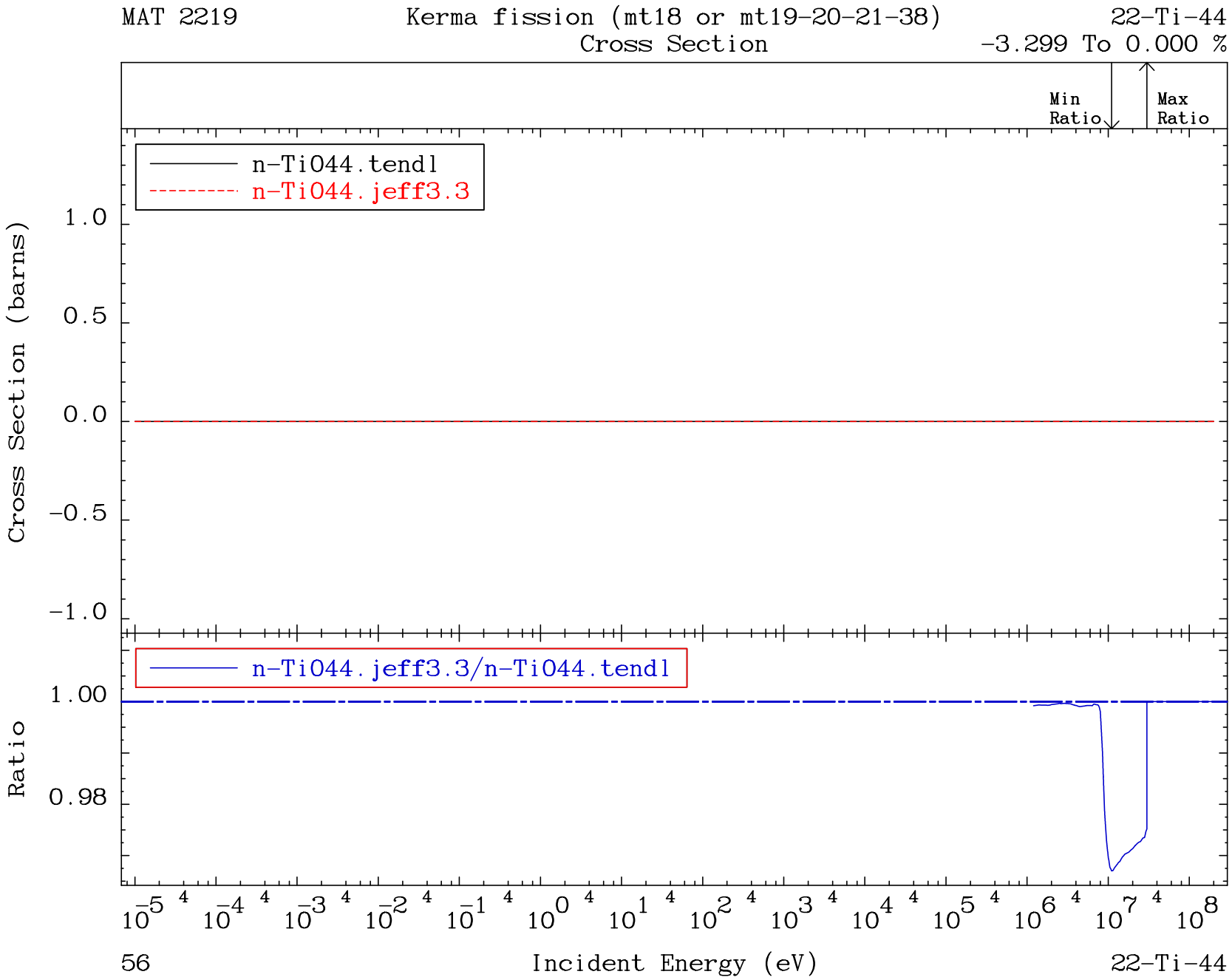

MAT 2219
He-4 Production
Cross Section
22-Ti-44
-22.88 To 98.68 %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
51
22-Ti-44

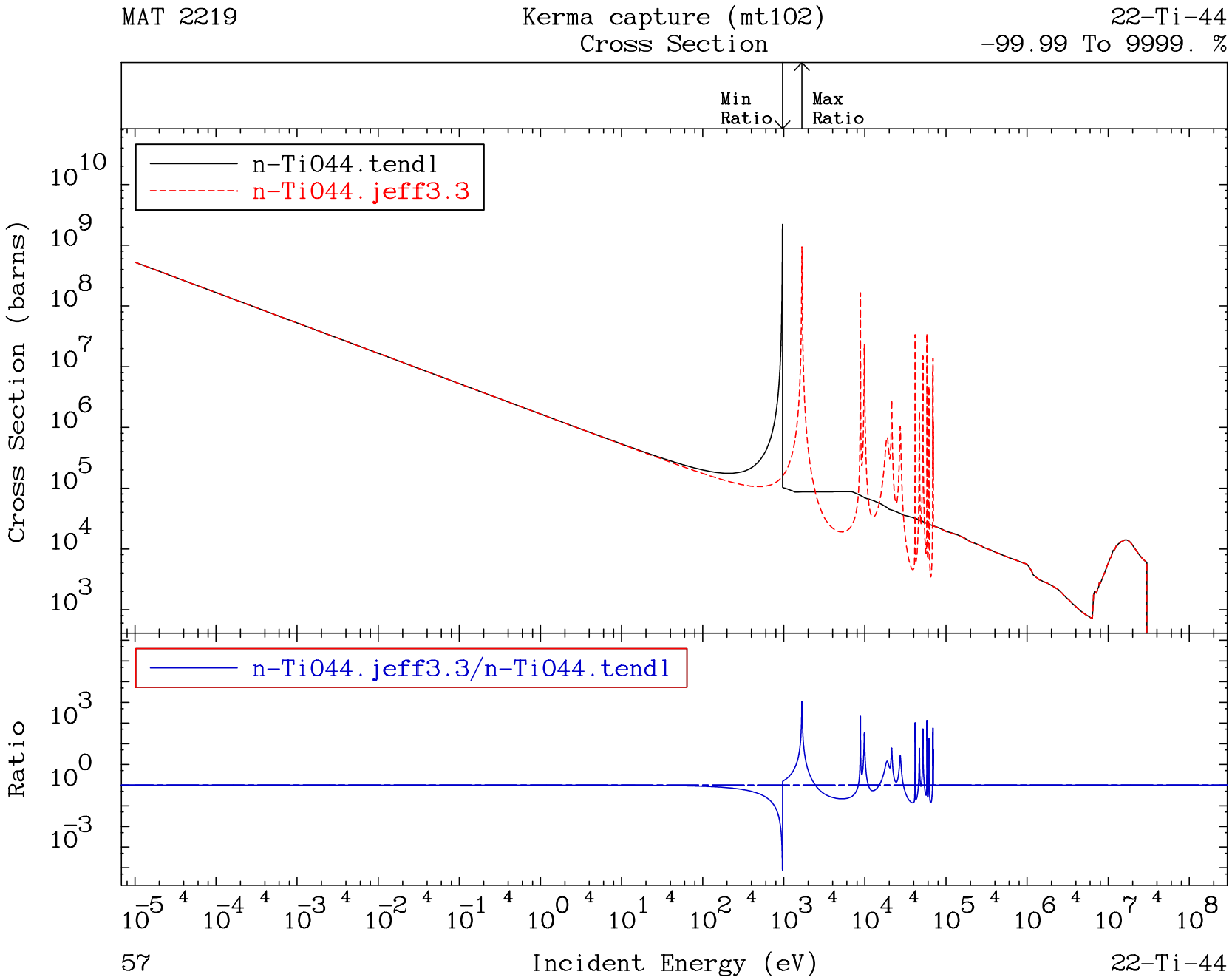

MAT 2219
Kerma total (eV-barns)
Cross Section
22-Ti-44
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
52
22-Ti-44

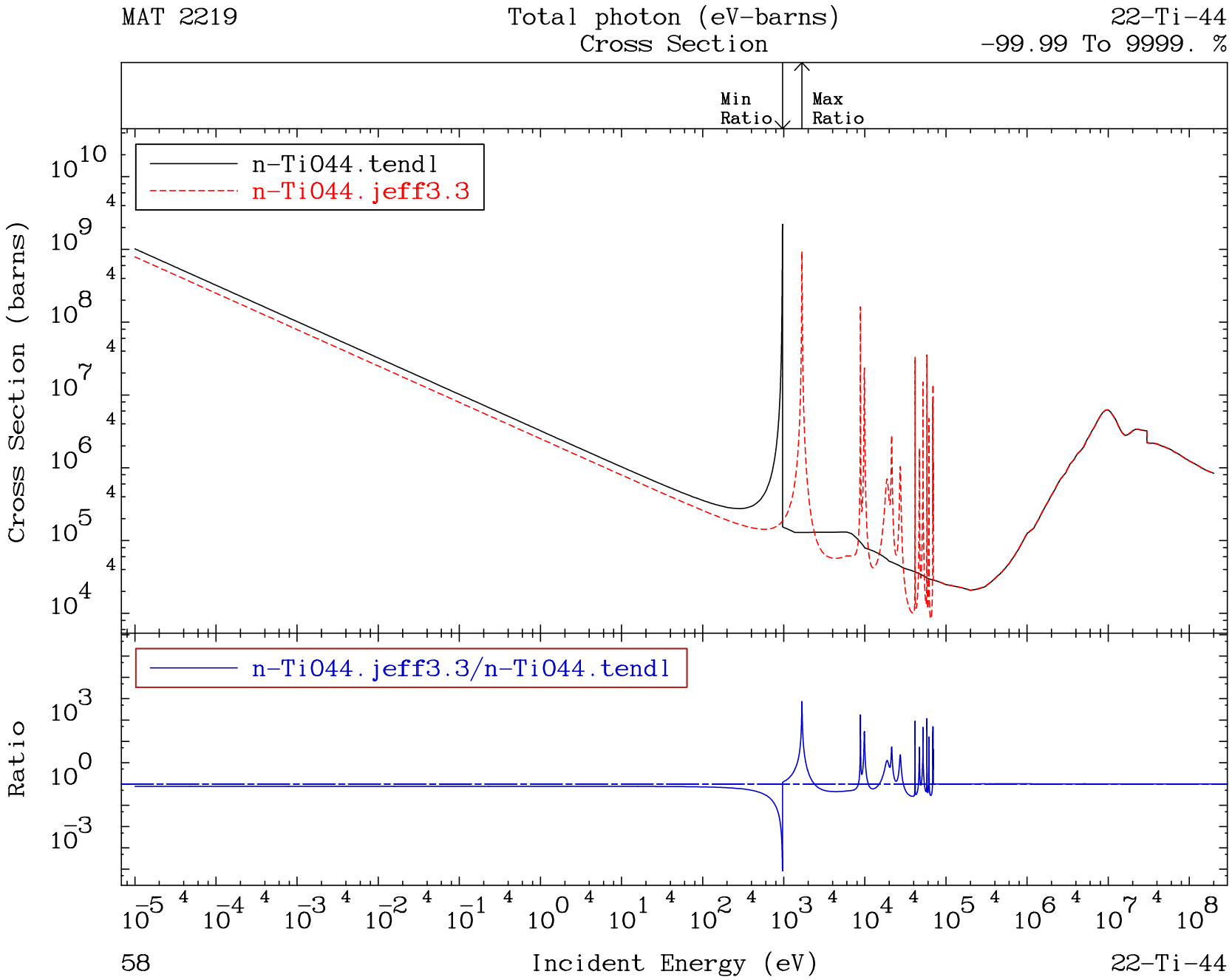

MAT 2219
Kerma elastic
Cross Section
22-Ti-44
-100.0 To 9999. %
Max
Ratio
Min
Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
53
22-Ti-44

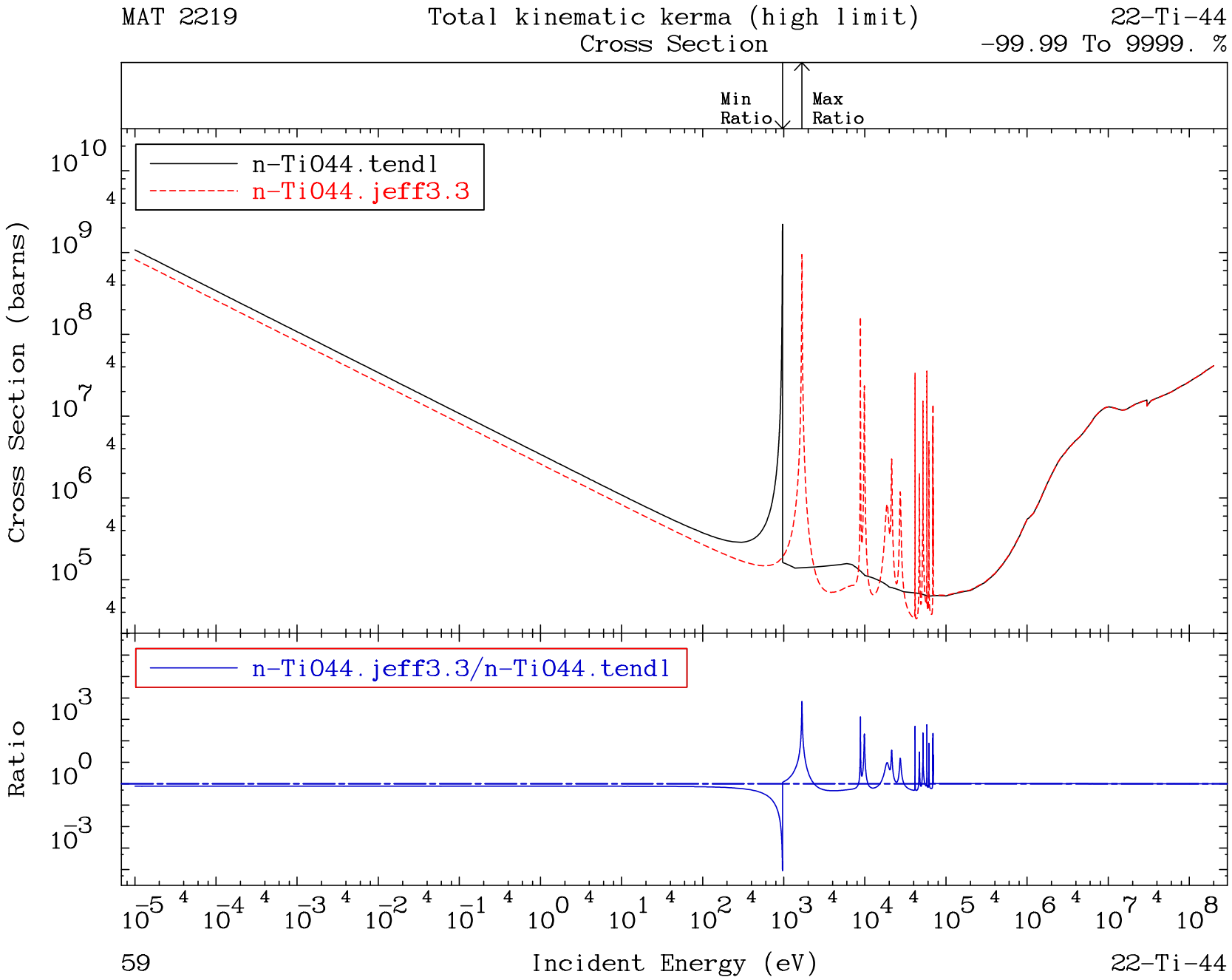

MAT 2219
Kerma non-elastic (all but mt2)
Cross Section
22-Ti-44
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
54
22-Ti-44

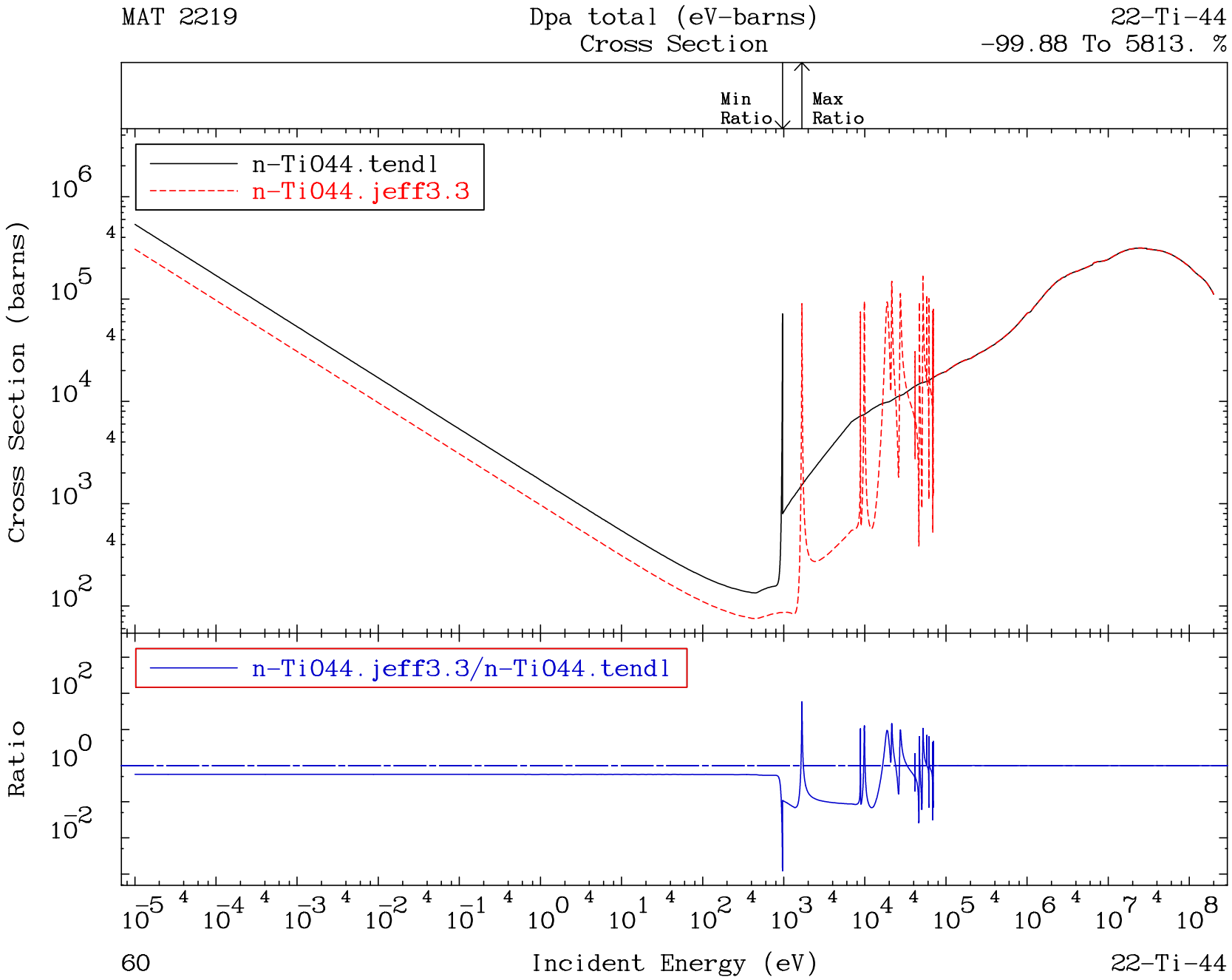

MAT 2219
Kerma inelastic (mt51-91)
Cross Section
22-Ti-44
-3.299 To 0.000 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 1.2000 MeV
n-Ti044.jeff3.3 Threshold 1.2000 MeV
Cross Section (Mega-barns)
2.0
1.6
1.2
0.8
0.4
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
55
Incident Energy (eV)
22-Ti-44

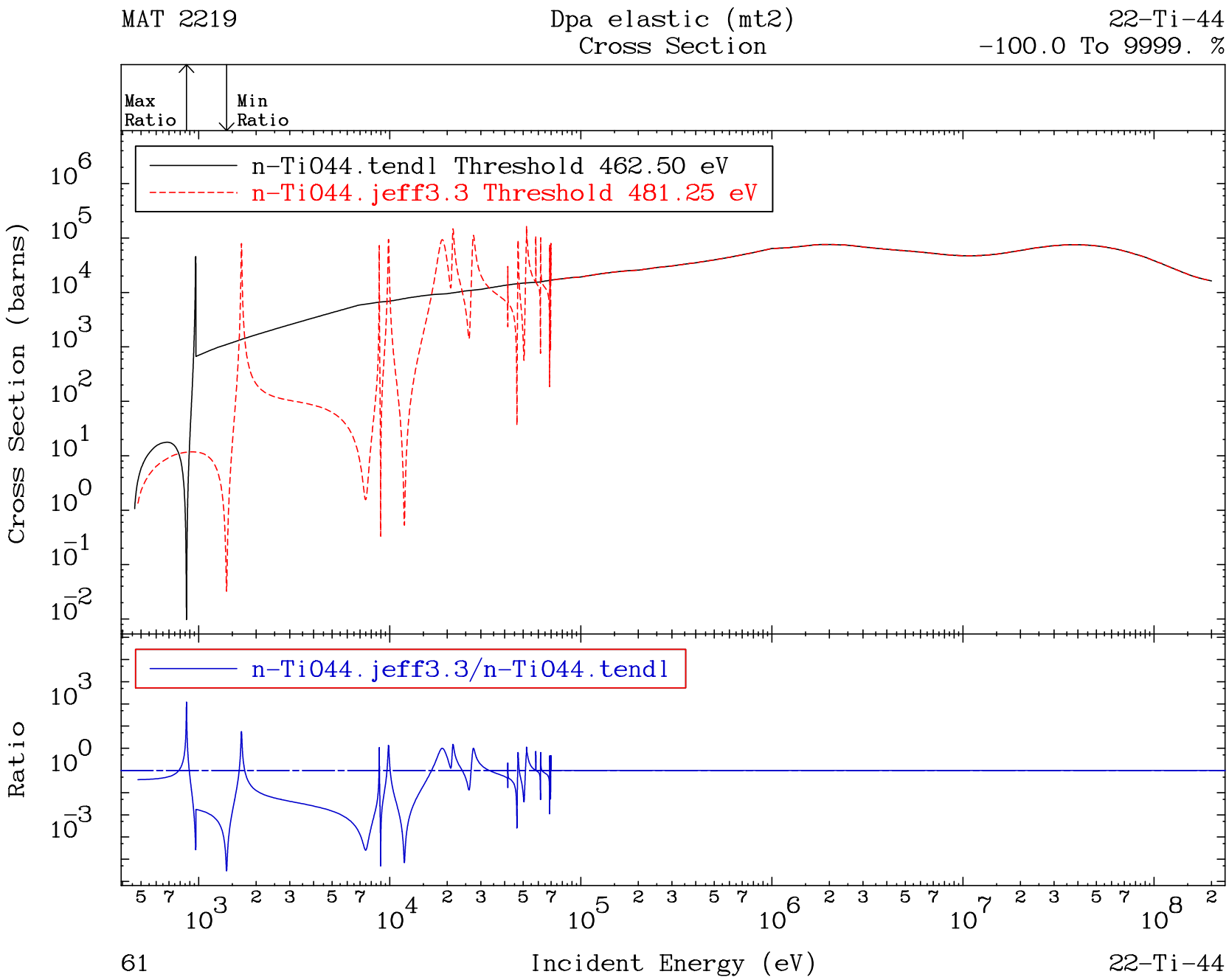

MAT 2219
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
22-Ti-44
-3.299 To 0.000 %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
0.98
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
56
Incident Energy (eV)
22-Ti-44

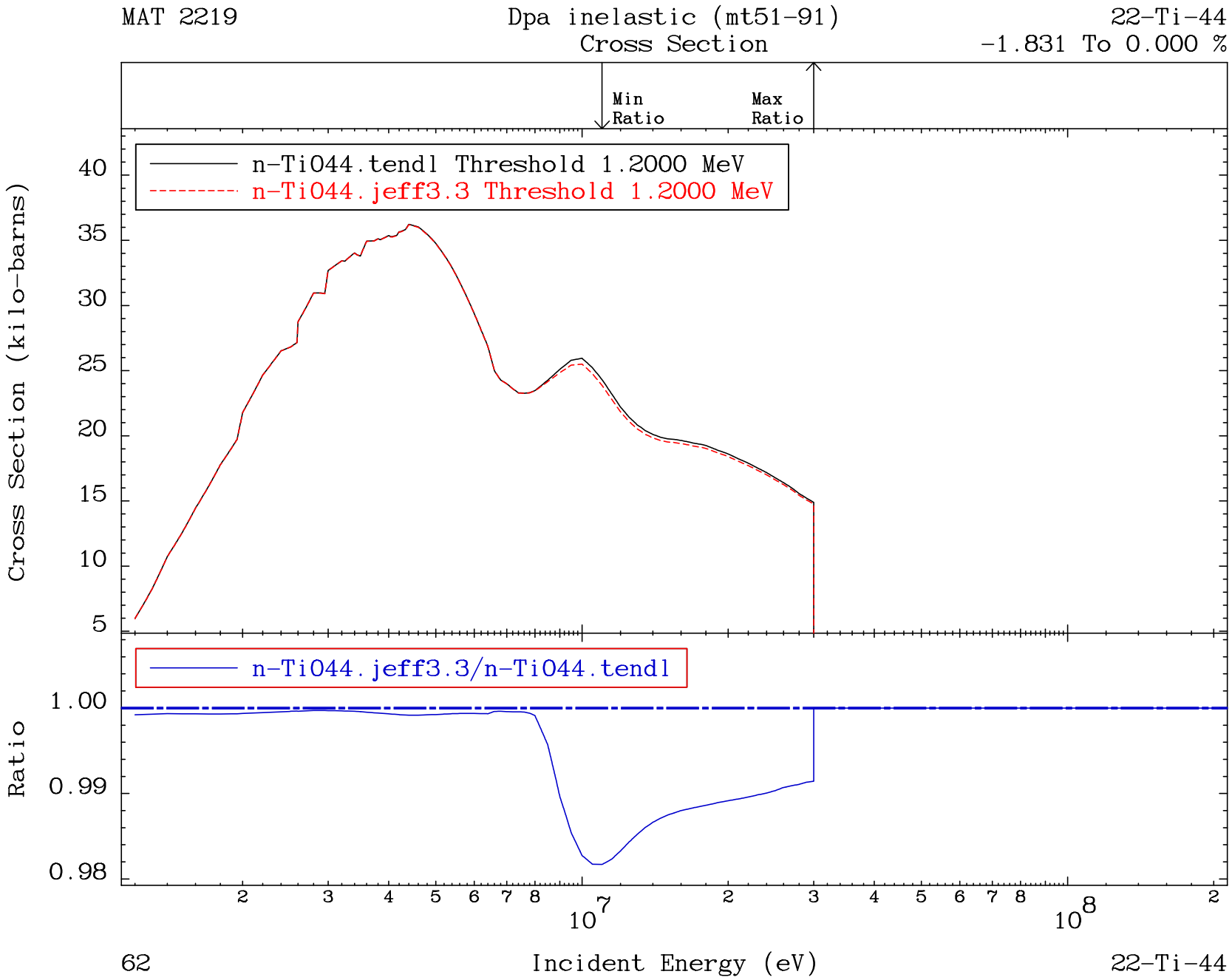

MAT 2219
Kerma capture (mt102)
Cross Section
22-Ti-44
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
57
22-Ti-44

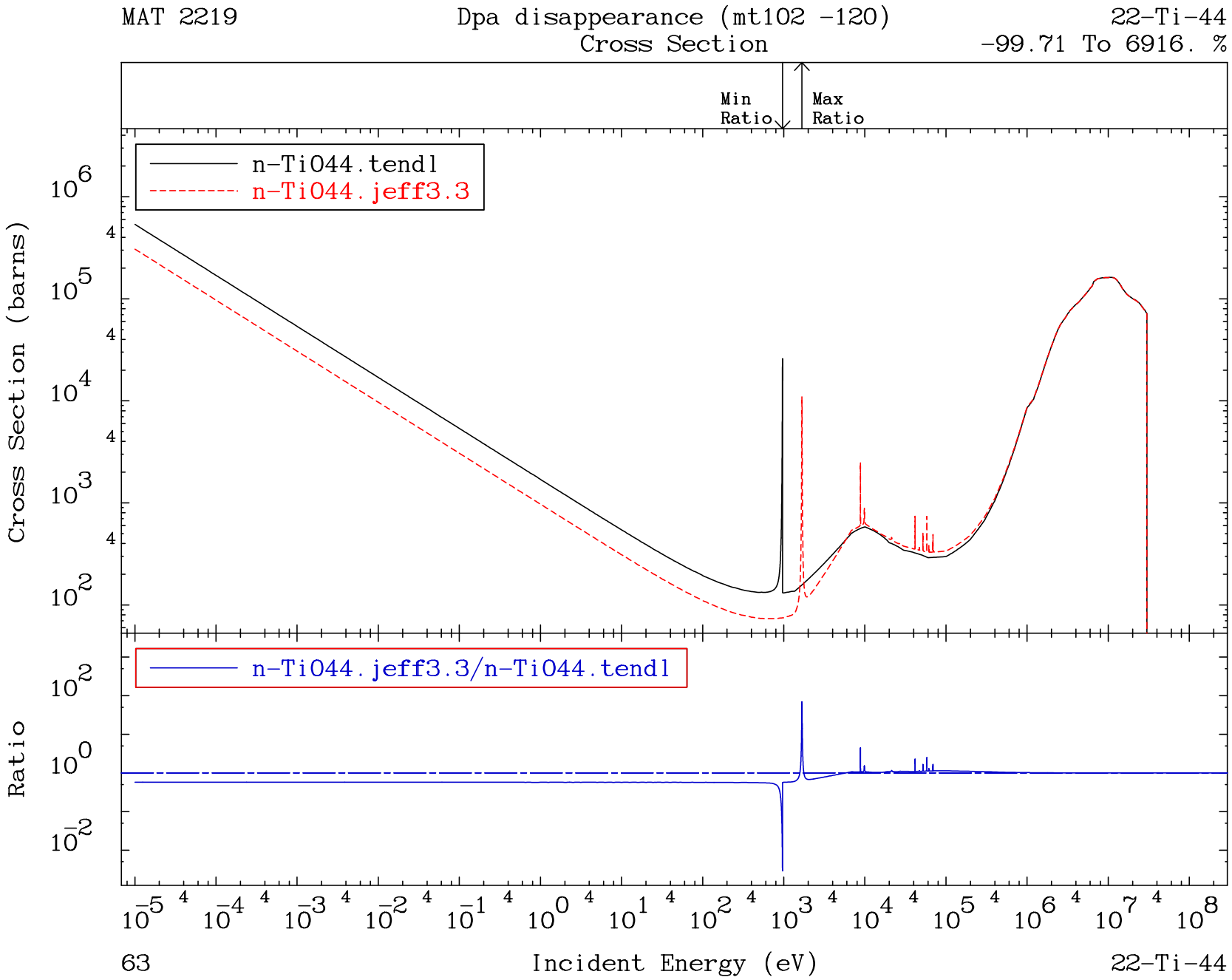

MAT 2219
Total photon (eV-barns)
Cross Section
22-Ti-44
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
58
22-Ti-44

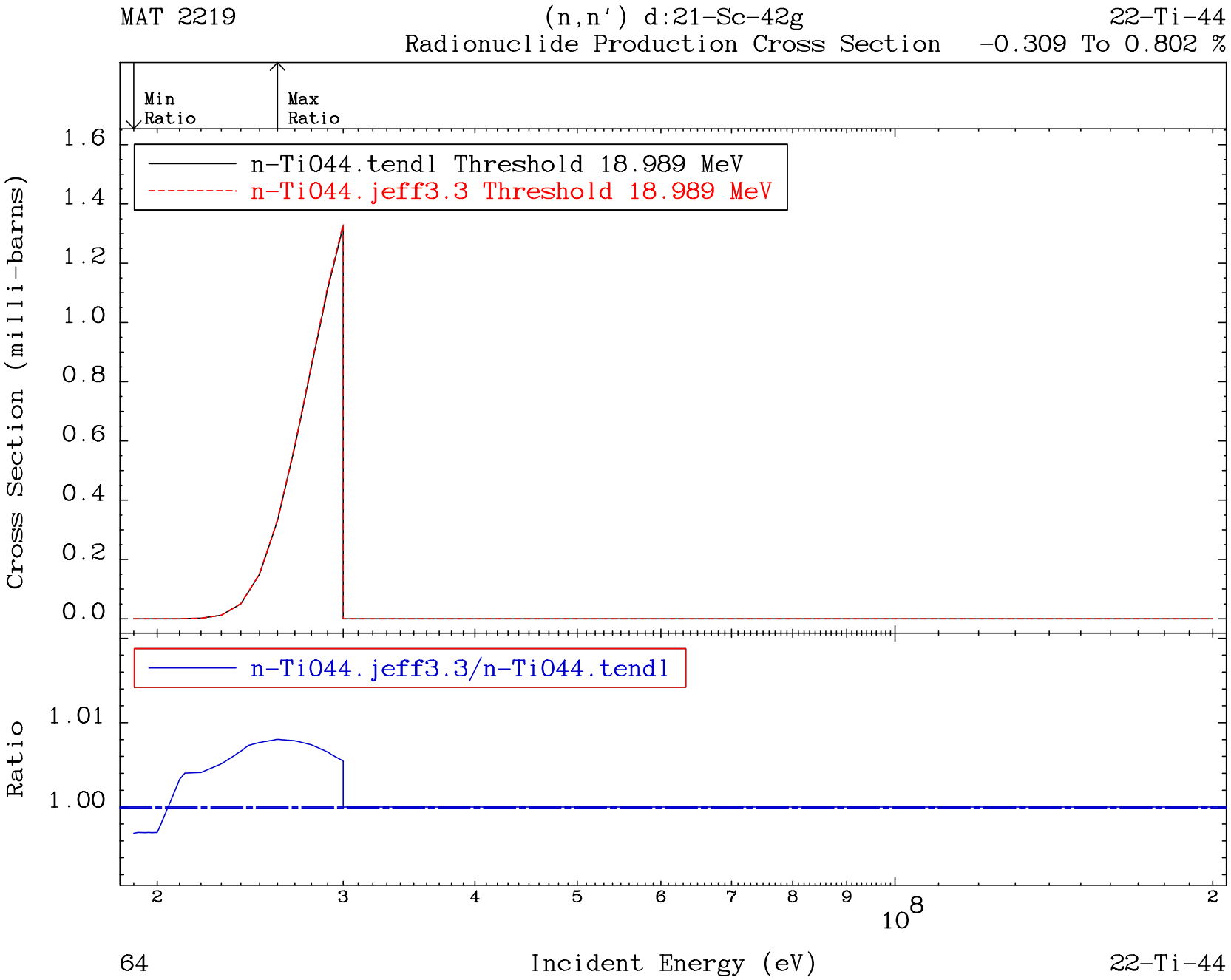

MAT 2219
Total kinematic kerma (high limit)
Cross Section
22-Ti-44
-99.99 To 9999. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
59
22-Ti-44

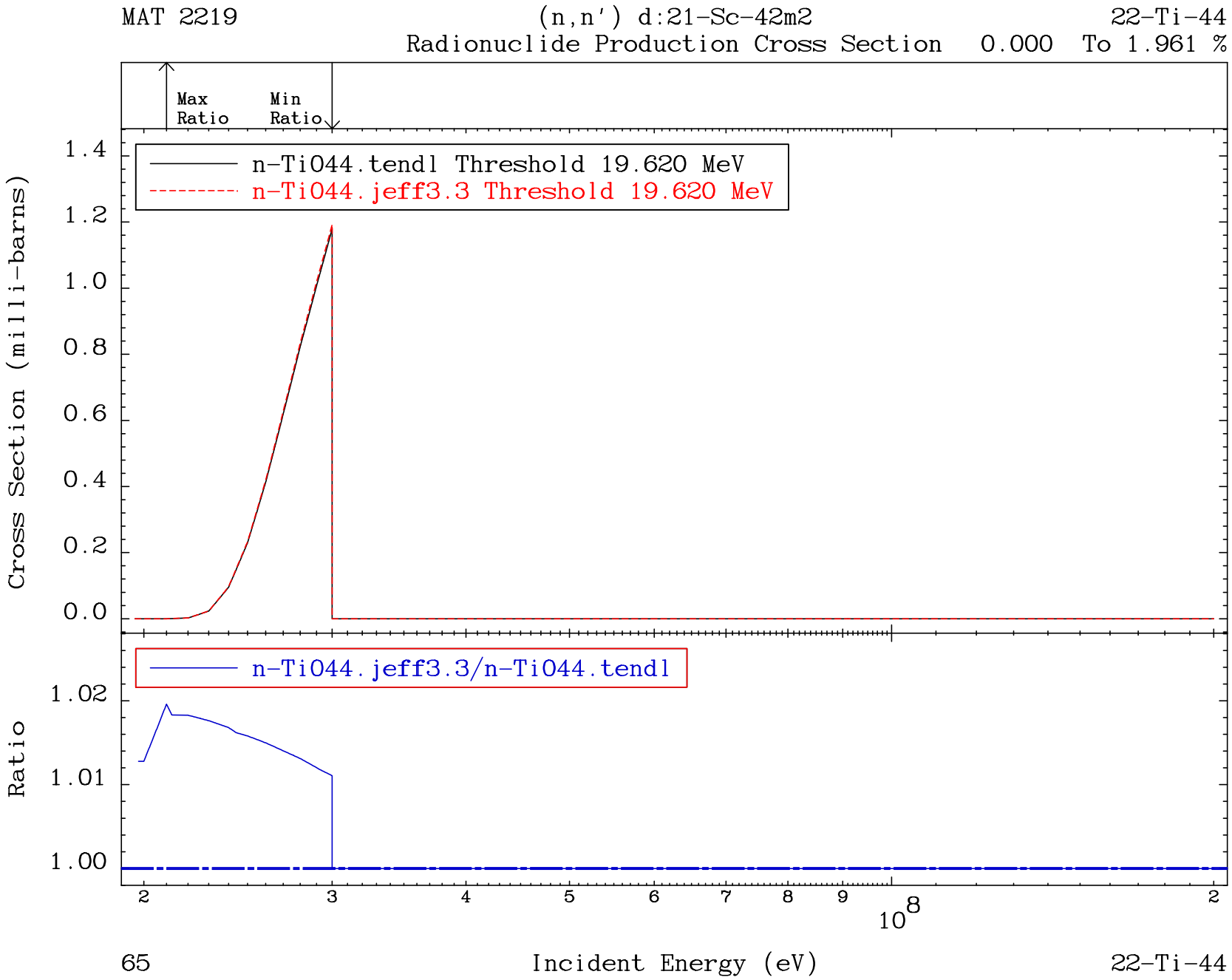

MAT 2219
Dpa total (eV-barns)
Cross Section
22-Ti-44
-99.88 To 5813. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
60
22-Ti-44

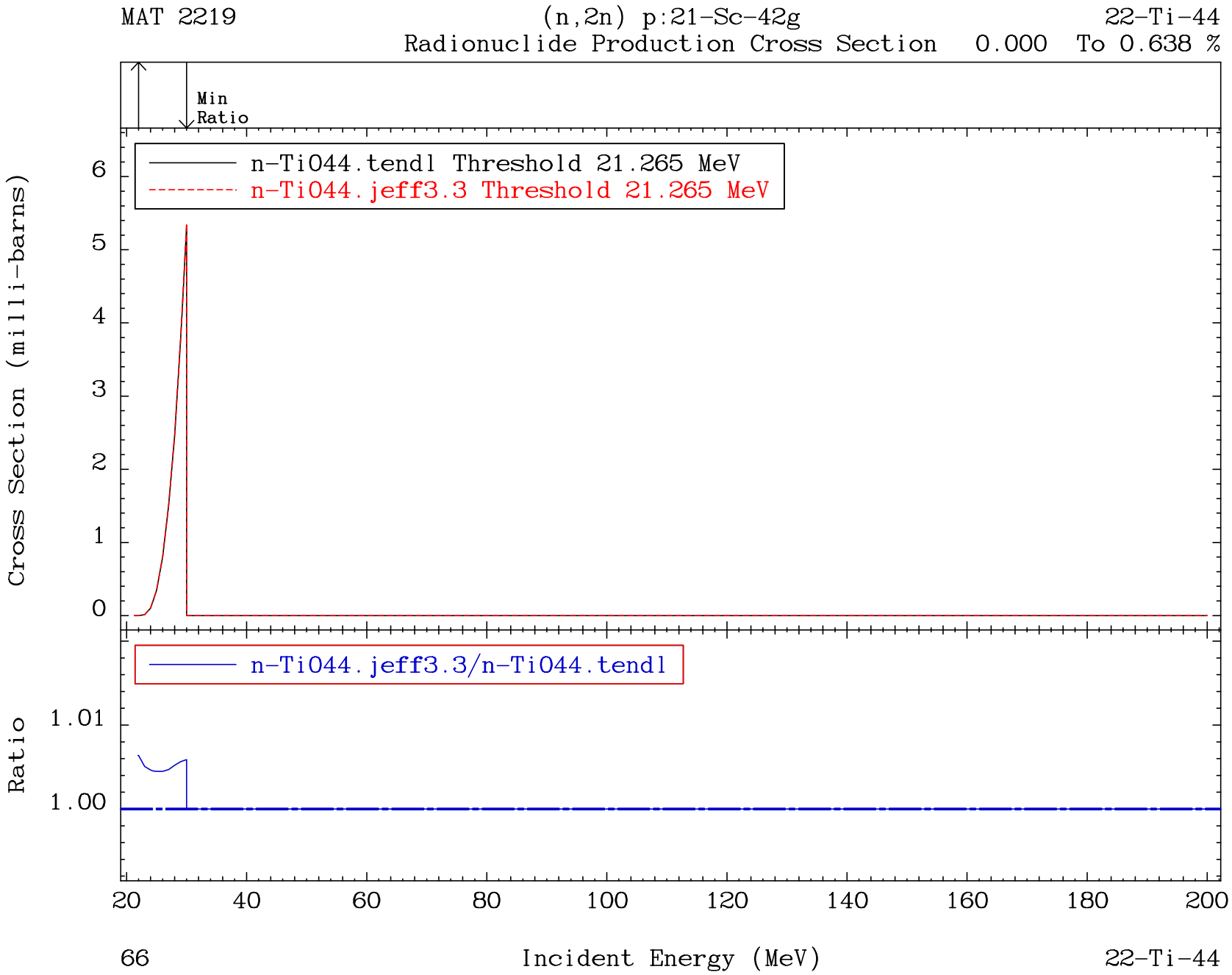

MAT 2219
Dpa elastic (mt2)
Cross Section
22-Ti-44
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 462.50 eV
n-Ti044.jeff3.3 Threshold 481.25 eV
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
Incident Energy (eV)
61
22-Ti-44

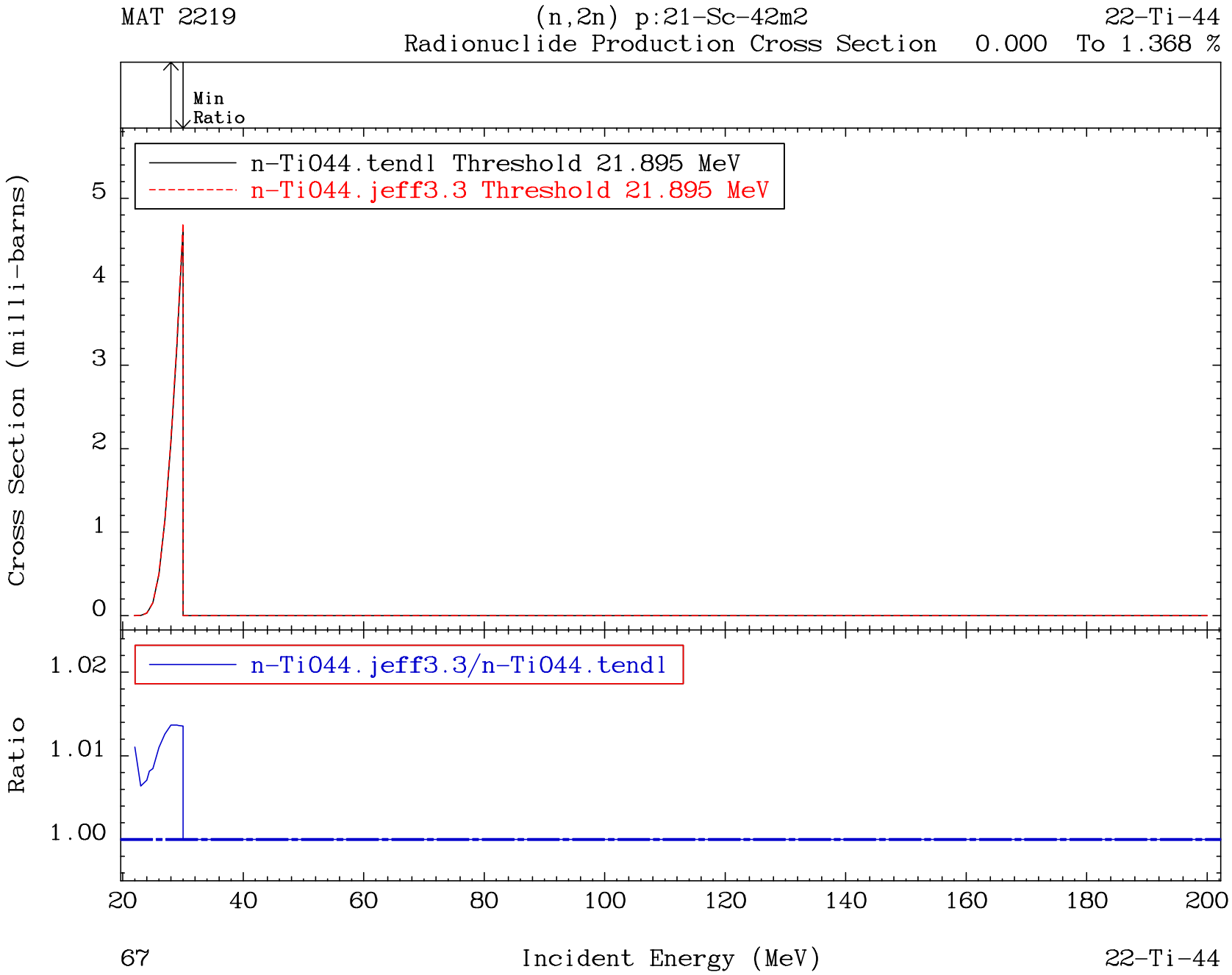

MAT 2219
Dpa inelastic (mt51-91)
Cross Section
22-Ti-44
-1.831 To 0.000 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 1.2000 MeV
n-Ti044.jeff3.3 Threshold 1.2000 MeV
Cross Section (kilo-barns)
40
35
30
25
20
15
10
5
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
0.99
0.98
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
62
Incident Energy (eV)
22-Ti-44

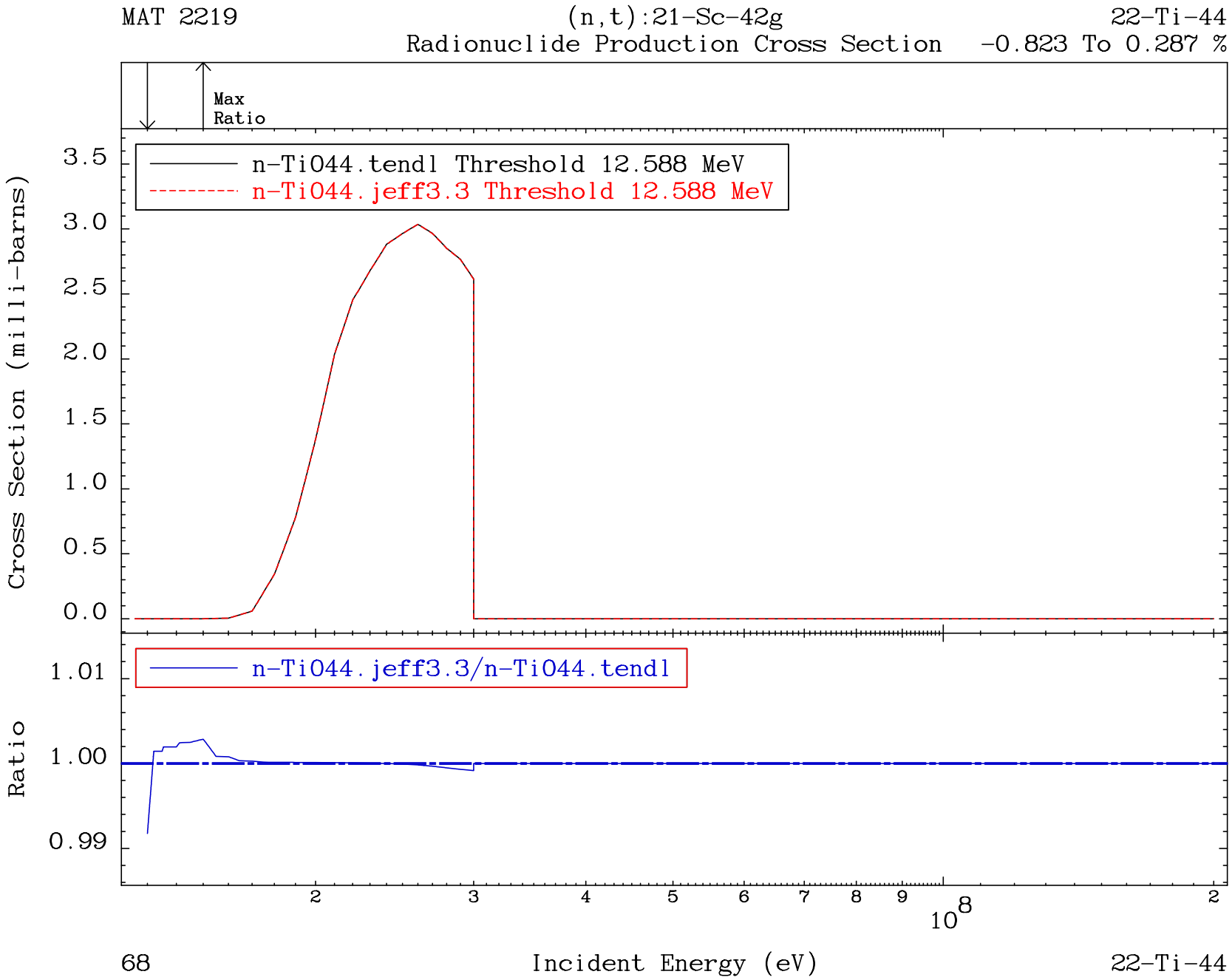

MAT 2219
Dpa disappearance (mt102 -120)
Cross Section
22-Ti-44
-99.71 To 6916. %
Min Ratio
Max Ratio
n-Ti044.tendl
n-Ti044.jeff3.3
Cross Section (barns)
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
63
Incident Energy (eV)
22-Ti-44

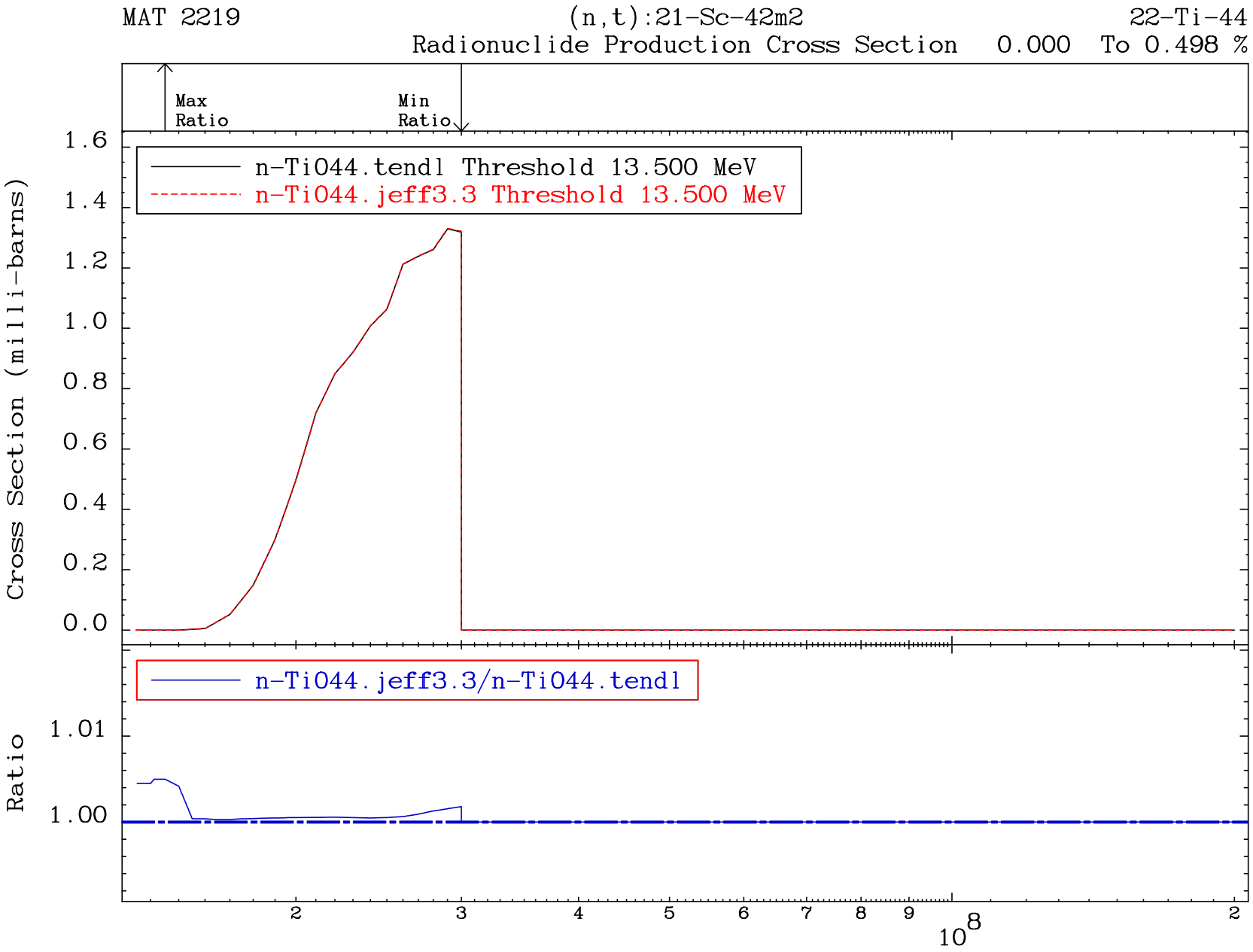

MAT 2219
(n,n') d:21-Sc-42g
22-Ti-44
Radionuclide Production Cross Section
-0.309 To 0.802 %
Min Ratio
Max Ratio
n-Ti044.tendl Threshold 18.989 MeV
n-Ti044.jeff3.3 Threshold 18.989 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
22-Ti-44


MAT 2219
(n,n') d:21-Sc-42m2
22-Ti-44
Radionuclide Production Cross Section 0.000 To 1.961 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 19.620 MeV
n-Ti044.jeff3.3 Threshold 19.620 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
22-Ti-44


MAT 2219
(n,2n) p:21-Sc-42g
22-Ti-44
Radionuclide Production Cross Section 0.000 To 0.638 %
Min
Ratio
n-Ti044.tendl Threshold 21.265 MeV
n-Ti044.jeff3.3 Threshold 21.265 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
1.01
20
40
60
80
100
120
140
160
180
200
66
Incident Energy (MeV)
22-Ti-44


MAT 2219
(n,2n) p:21-Sc-42m2
22-Ti-44
Radionuclide Production Cross Section 0.000 To 1.368 %
Min
Ratio
n-Ti044.tendl Threshold 21.895 MeV
n-Ti044.jeff3.3 Threshold 21.895 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.00
1.01
1.02
20
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
22-Ti-44


MAT 2219
(n,t):21-Sc-42g
22-Ti-44
Radionuclide Production Cross Section
-0.823 To 0.287 %
Max
Ratio
n-Ti044.tendl Threshold 12.588 MeV
n-Ti044.jeff3.3 Threshold 12.588 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
22-Ti-44


MAT 2219
(n,t):21-Sc-42m2
22-Ti-44
Radionuclide Production Cross Section 0.000 To 0.498 %
Max Ratio
Min Ratio
n-Ti044.tendl Threshold 13.500 MeV
n-Ti044.jeff3.3 Threshold 13.500 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ti044.jeff3.3/n-Ti044.tendl
Ratio
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
22-Ti-44