Program Complot
(Version 2018-1)
by
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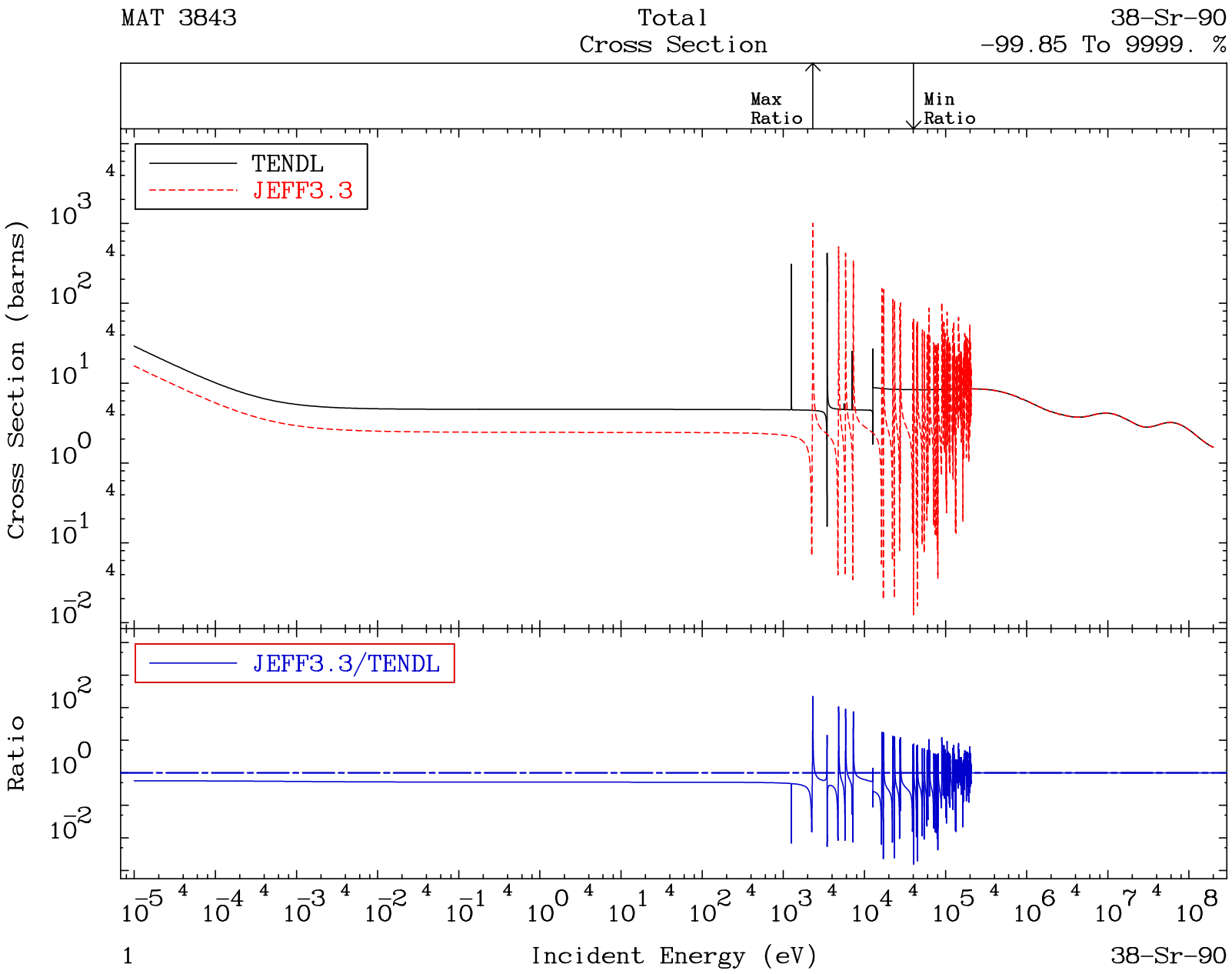
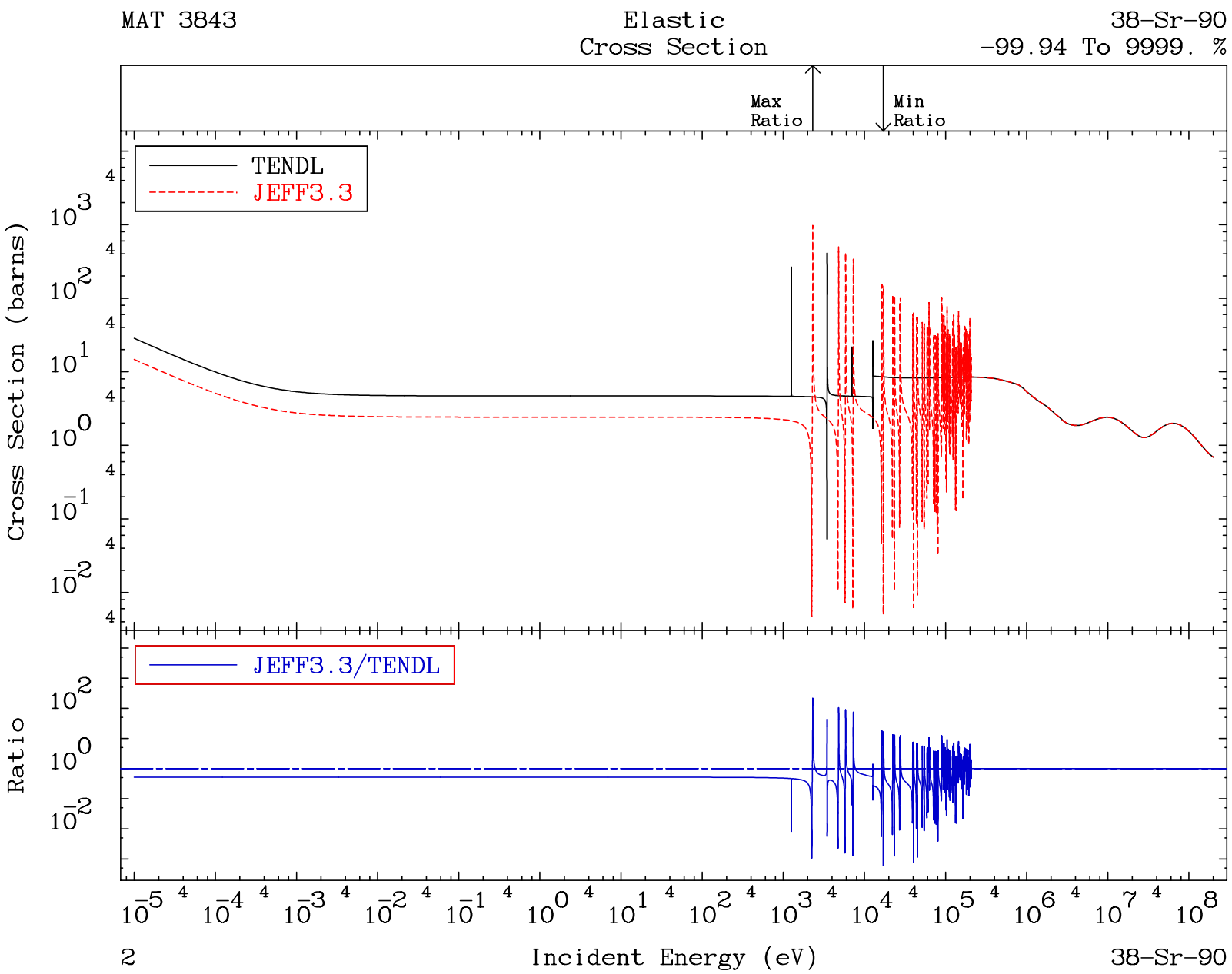
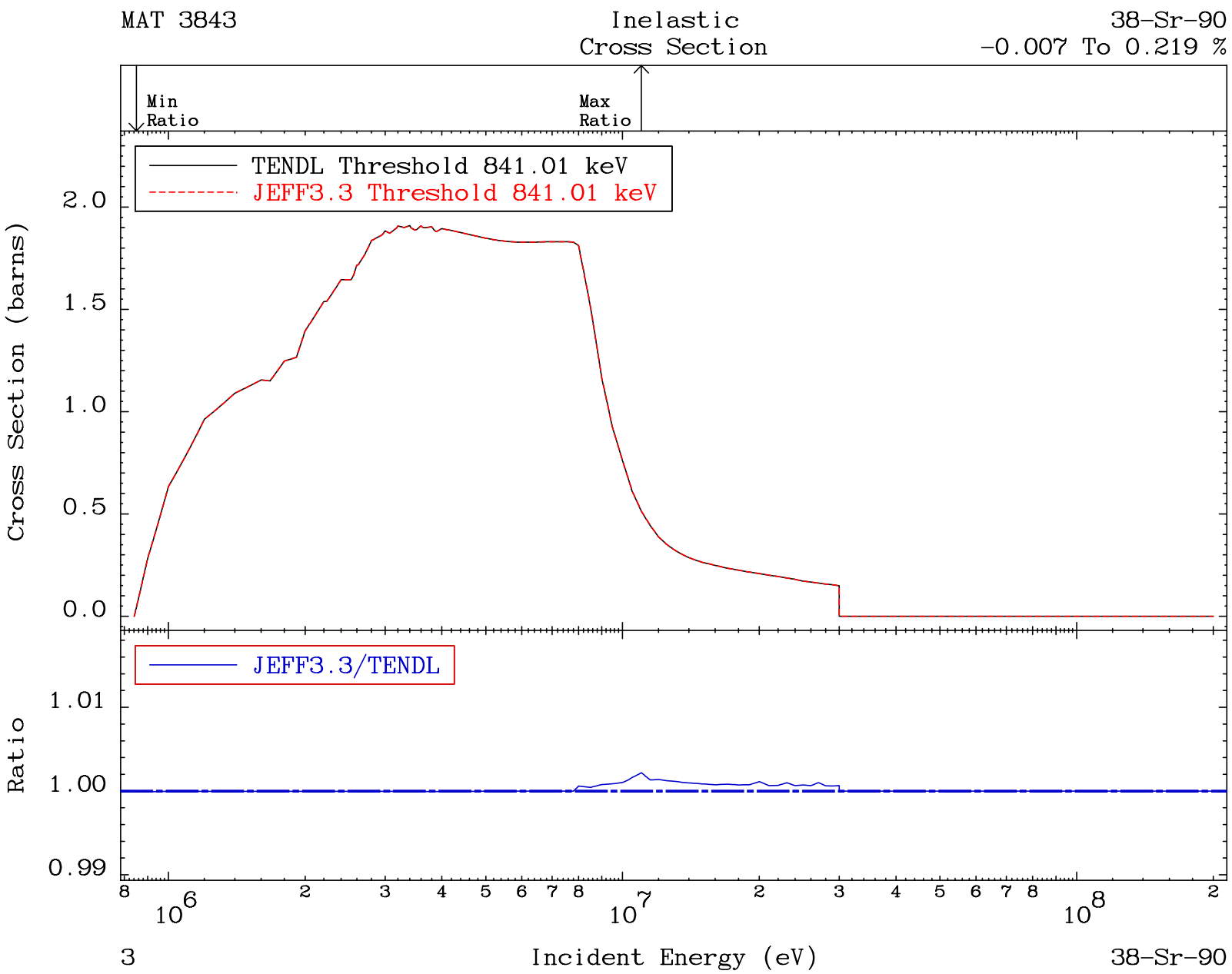
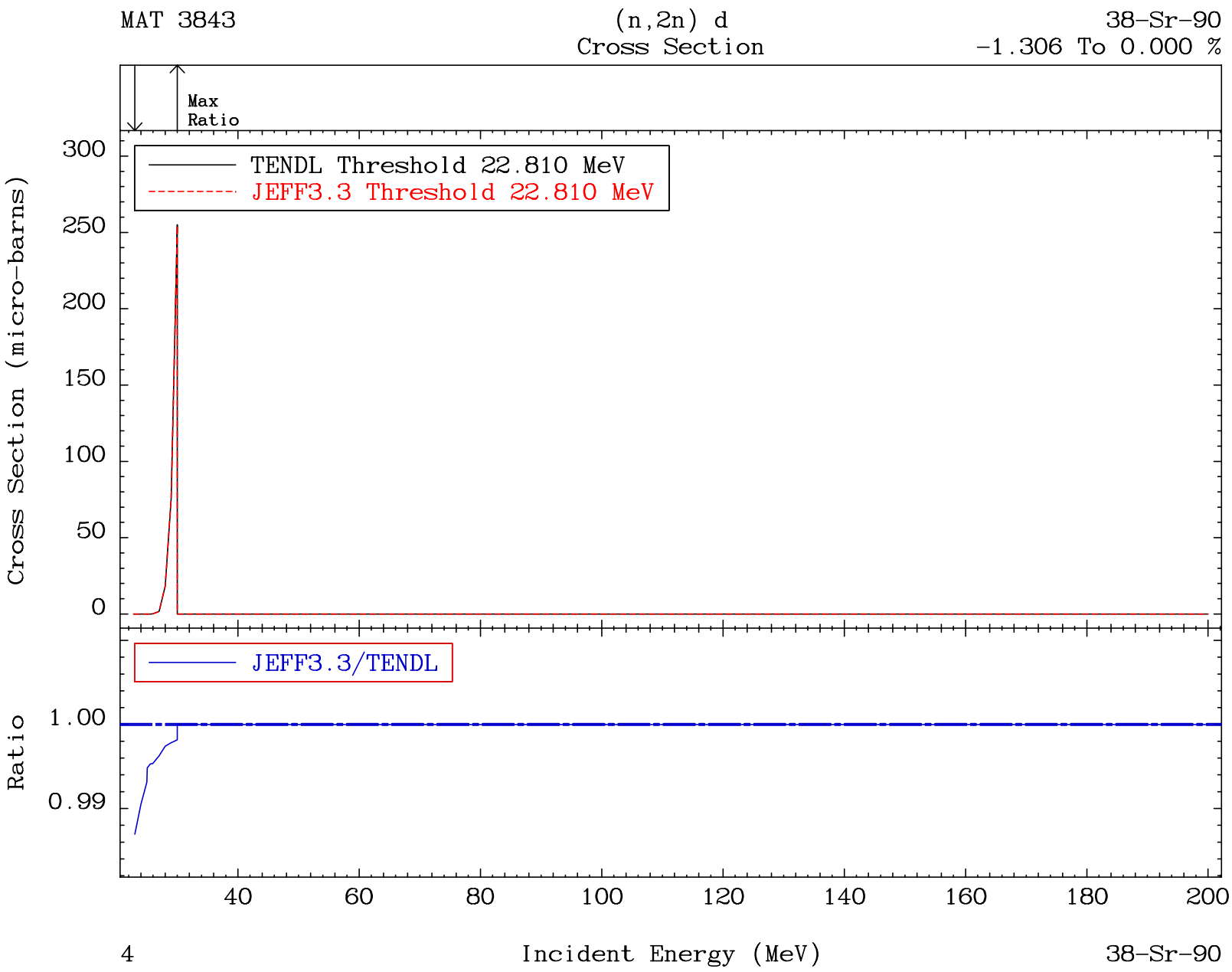
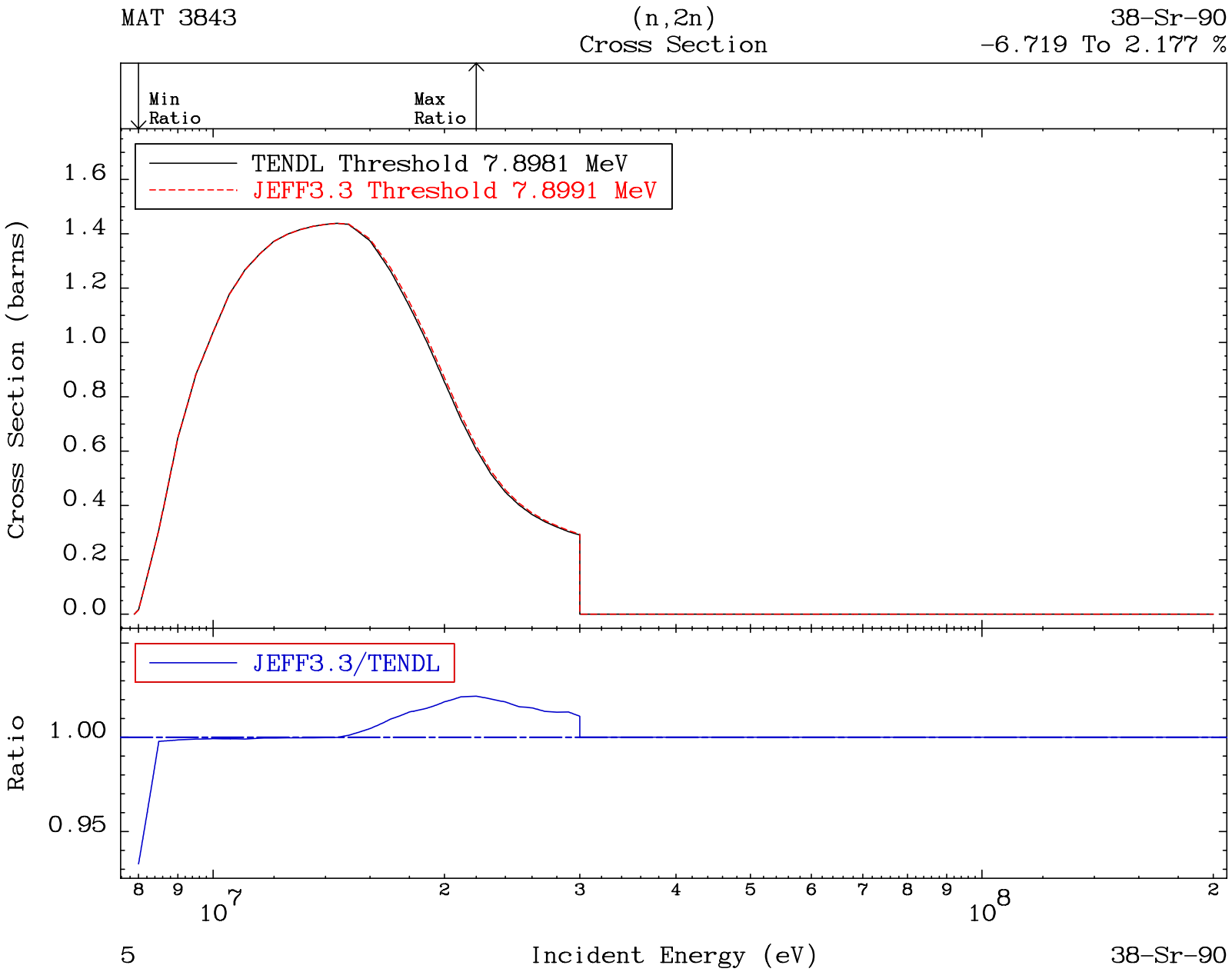
Press Mouse Button to Start

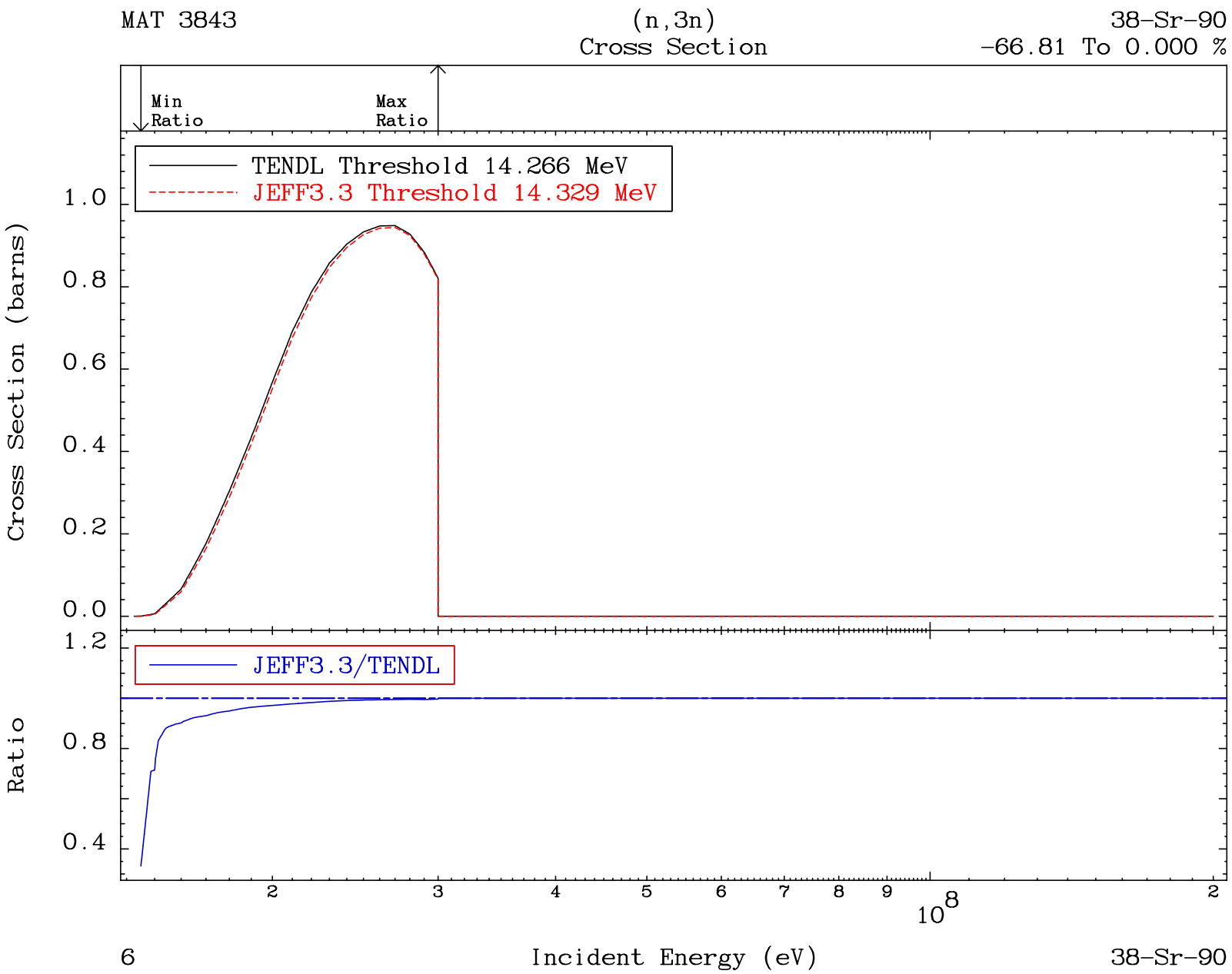

MAT 3843
Total
Cross Section
38-Sr-90
-99.85 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
38-Sr-90

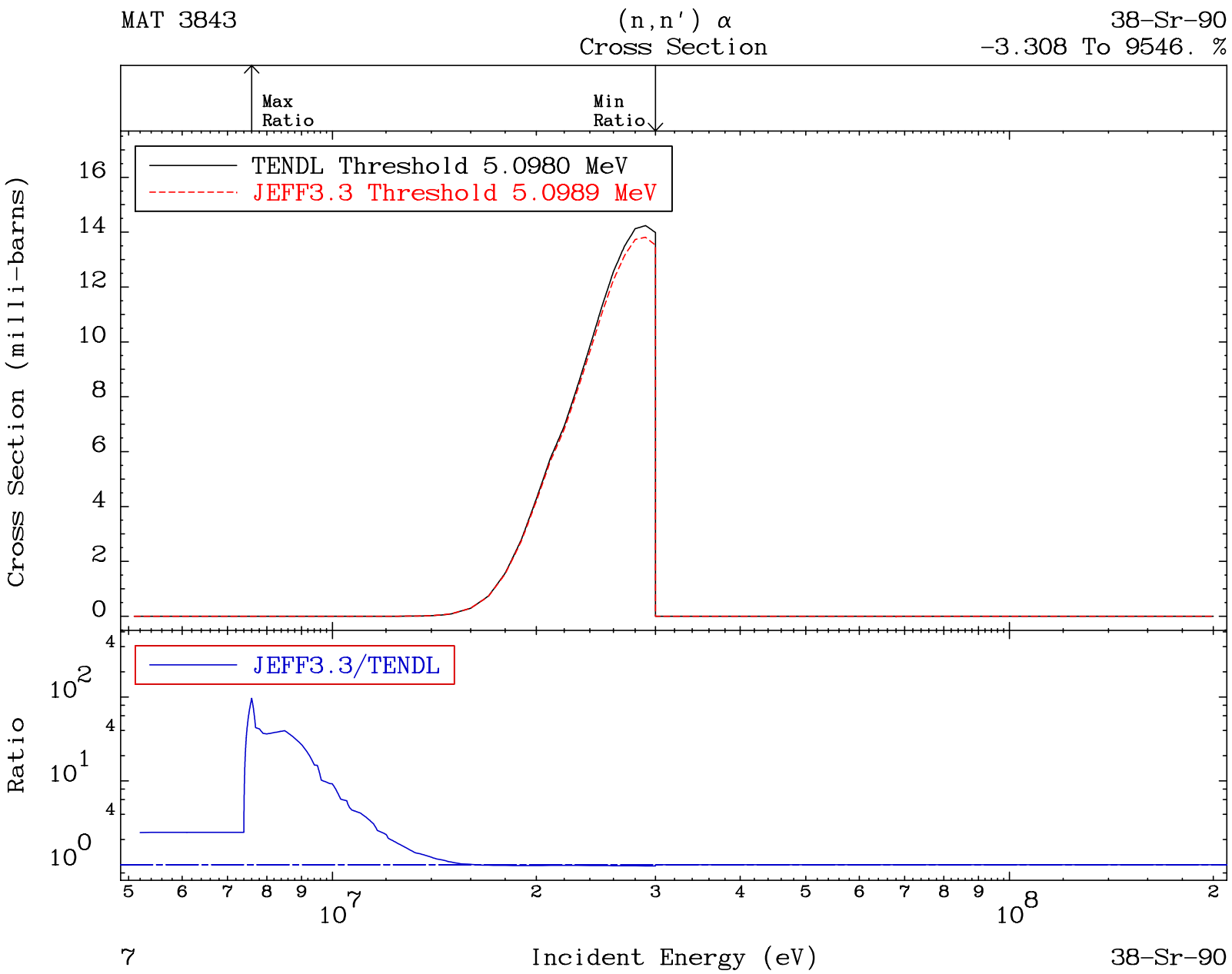

MAT 3843
Elastic
Cross Section
38-Sr-90
-99.94 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
38-Sr-90

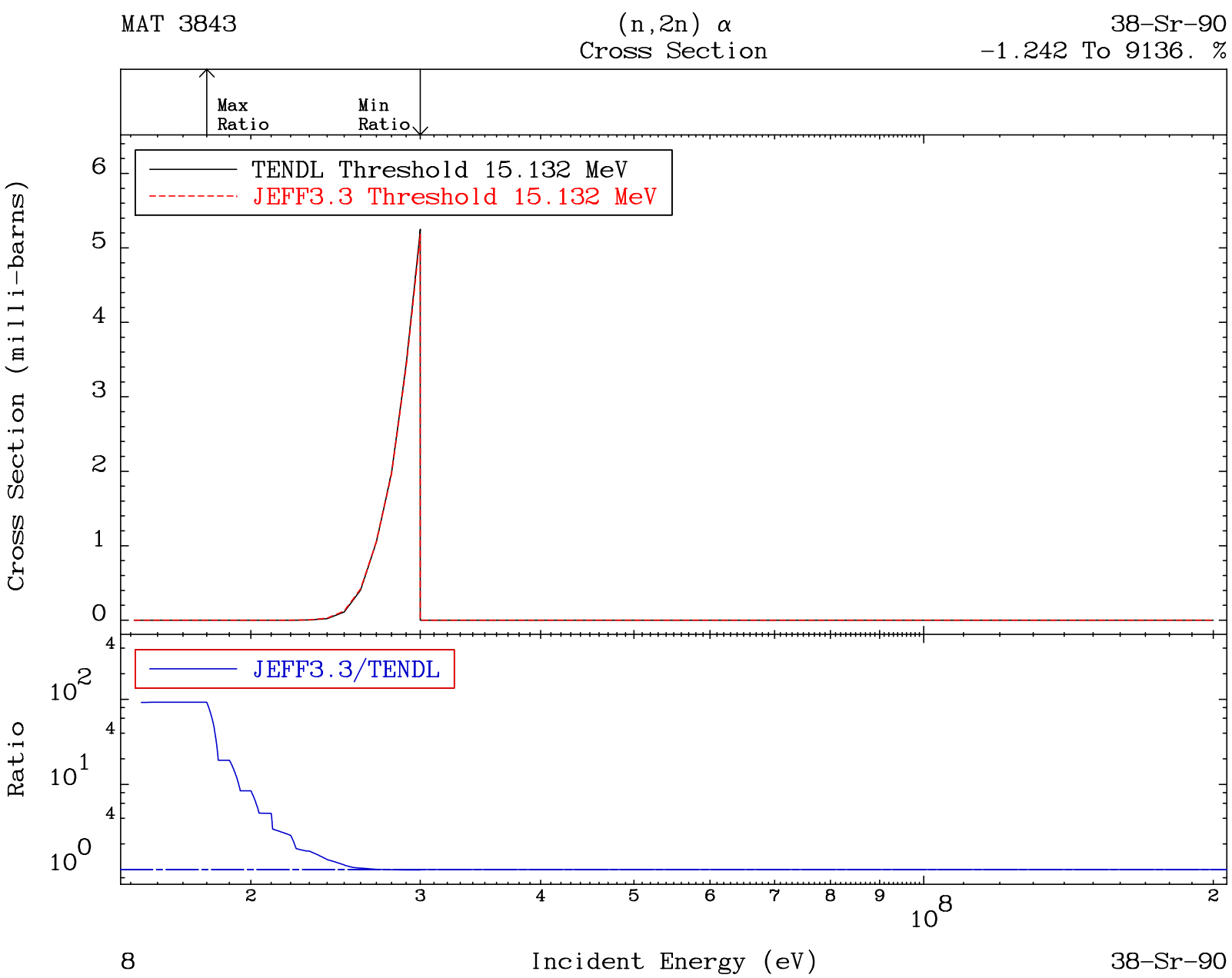

MAT 3843
Inelastic
Cross Section
38-Sr-90
-0.007 To 0.219 %
Min
Ratio
Max
Ratio
TENDL Threshold 841.01 keV
JEFF3.3 Threshold 841.01 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
8
2
3
4
5
6
7
8
10^6
10^7
10^8
3
Incident Energy (eV)
38-Sr-90

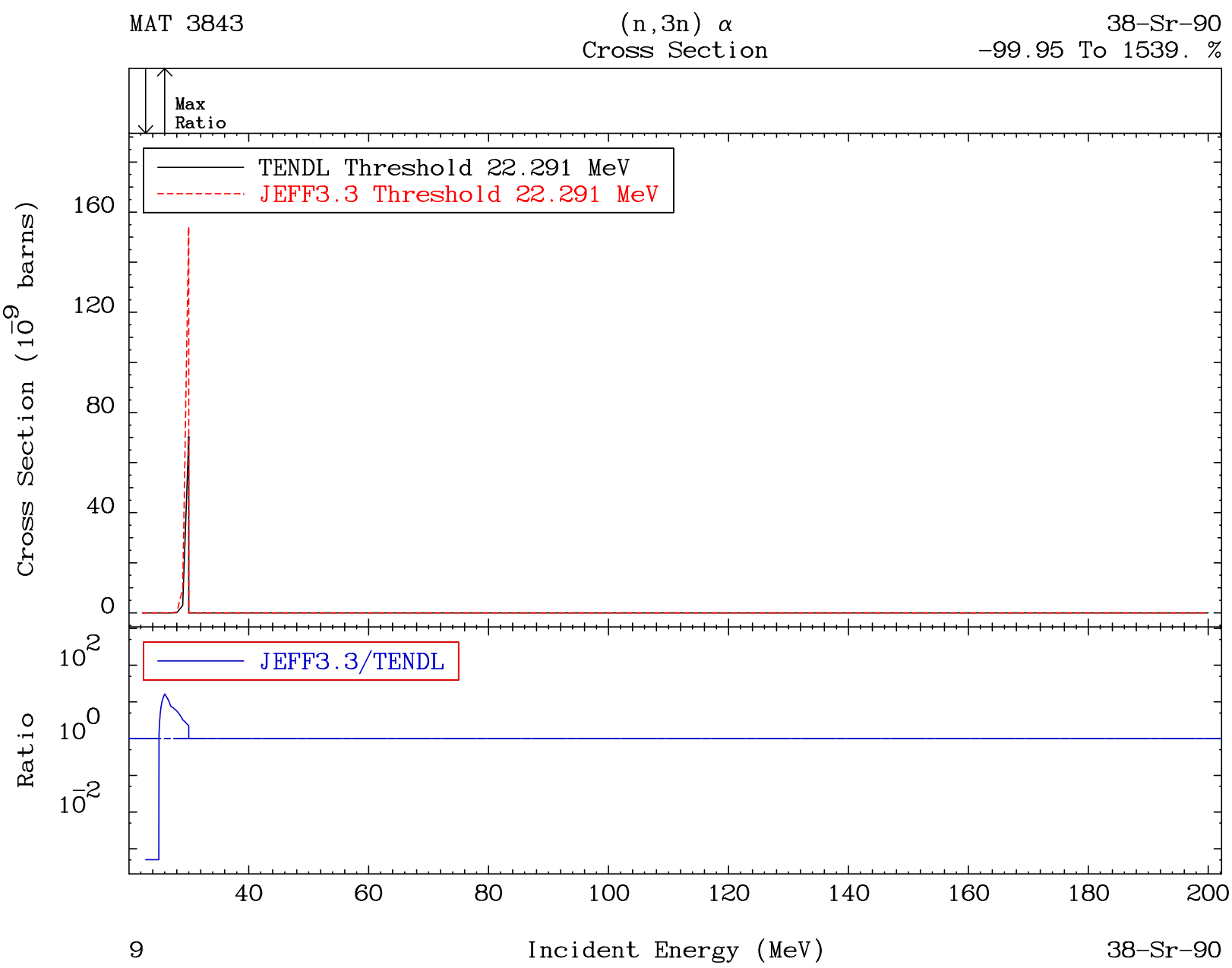

MAT 3843
(n,2n) d
Cross Section
38-Sr-90
-1.306 To 0.000 %
Max
Ratio
TENDL Threshold 22.810 MeV
JEFF3.3 Threshold 22.810 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.00
0.99
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
38-Sr-90

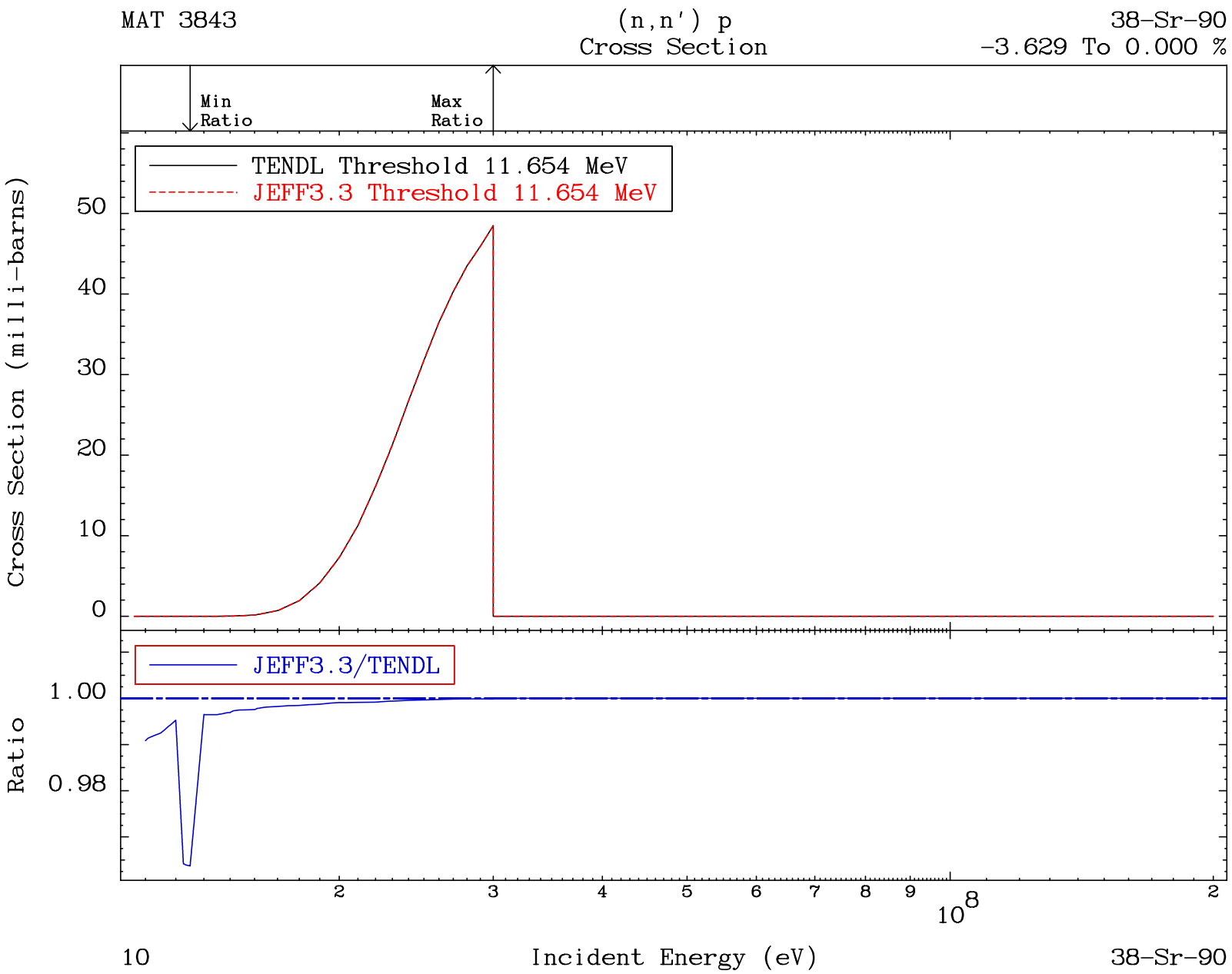

MAT 3843
(n,2n)
Cross Section
38-Sr-90
-6.719 To 2.177 %
Min Ratio
Max Ratio
TENDL Threshold 7.8981 MeV
JEFF3.3 Threshold 7.8991 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.00
0.95
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
38-Sr-90

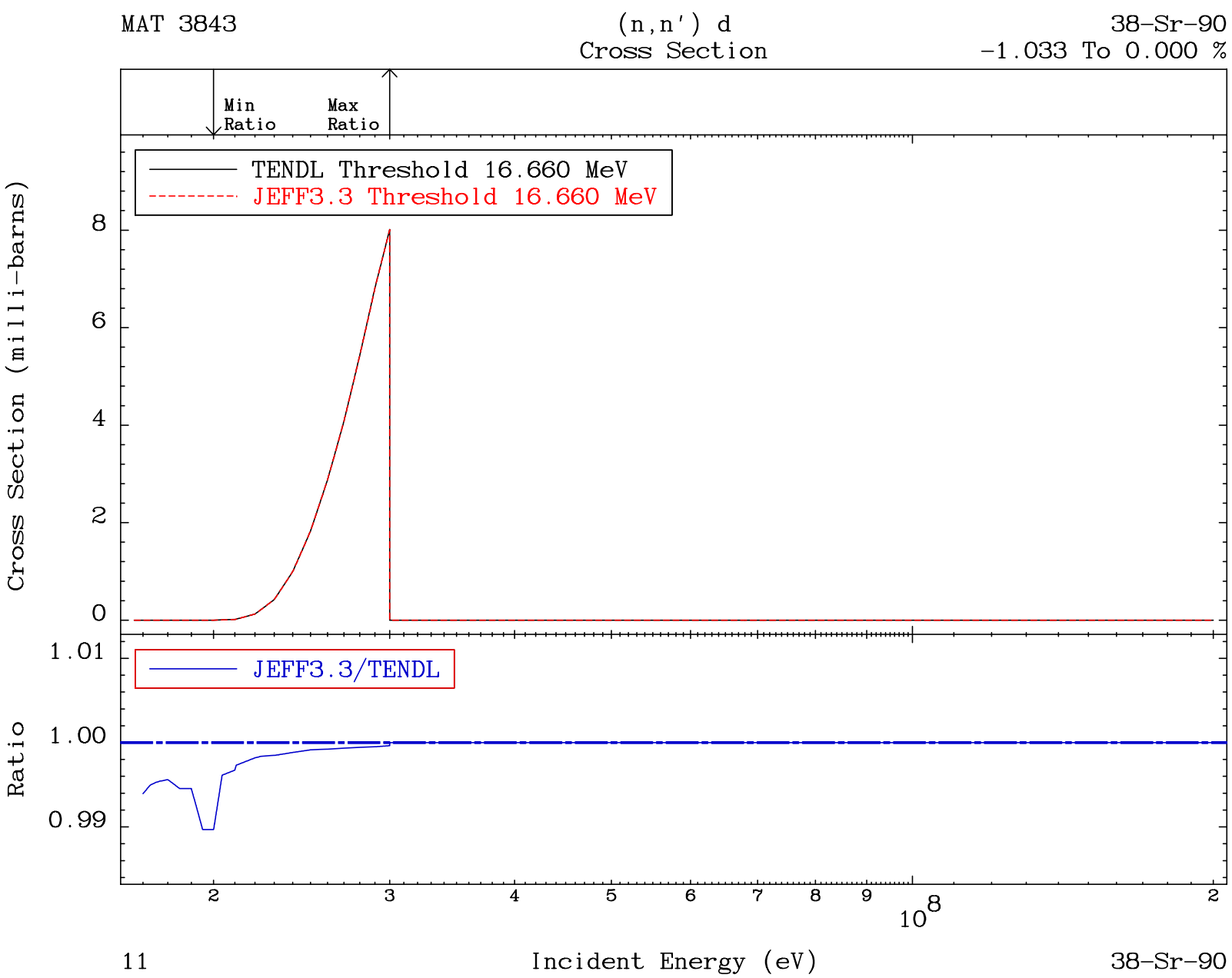

MAT 3843
(n,3n)
Cross Section
38-Sr-90
-66.81 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 14.266 MeV
JEFF3.3 Threshold 14.329 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
38-Sr-90

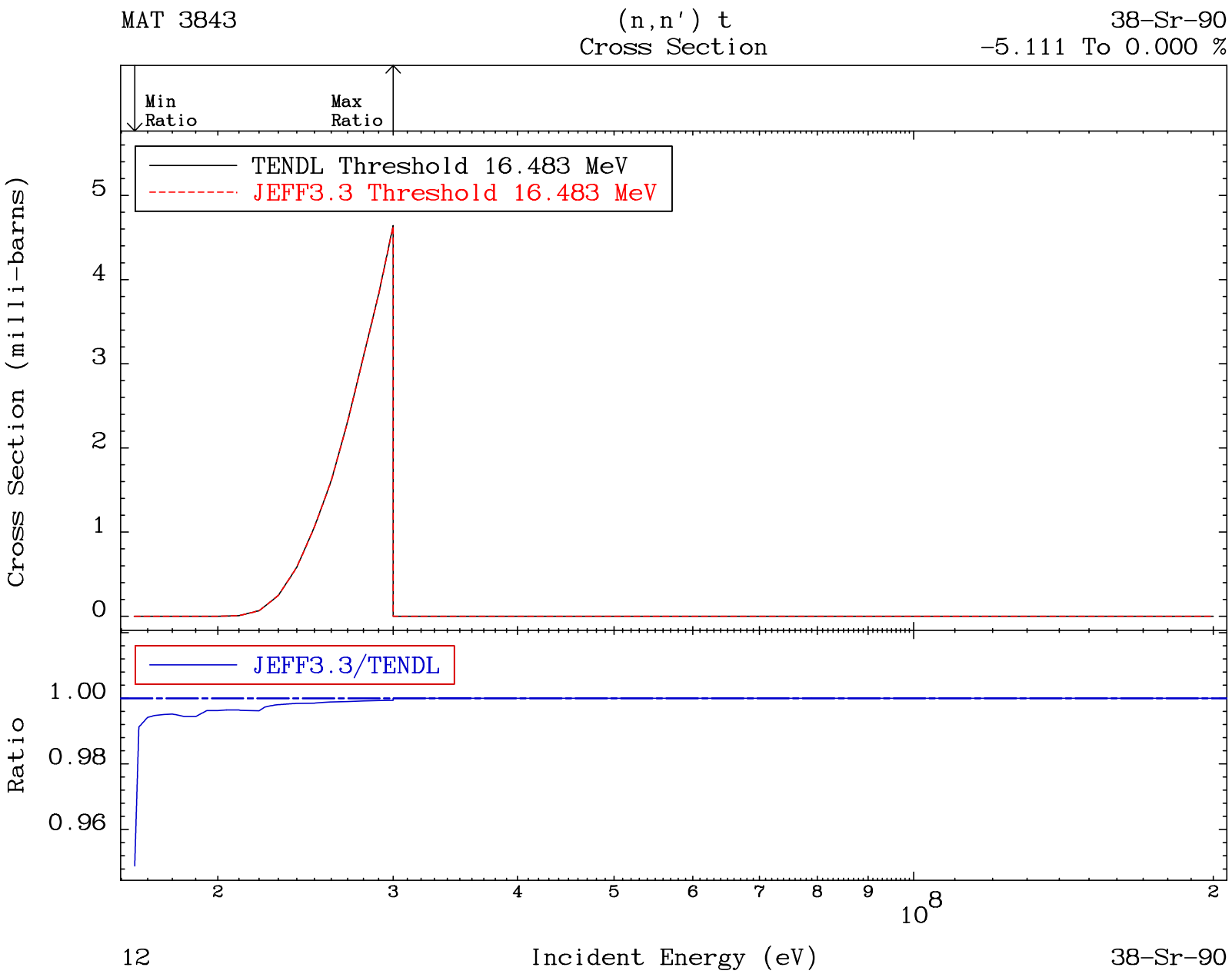

MAT 3843
(n,n') α
Cross Section
38-Sr-90
-3.308 To 9546. %
Max Ratio
Min Ratio
TENDL Threshold 5.0980 MeV
JEFF3.3 Threshold 5.0989 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
7
38-Sr-90

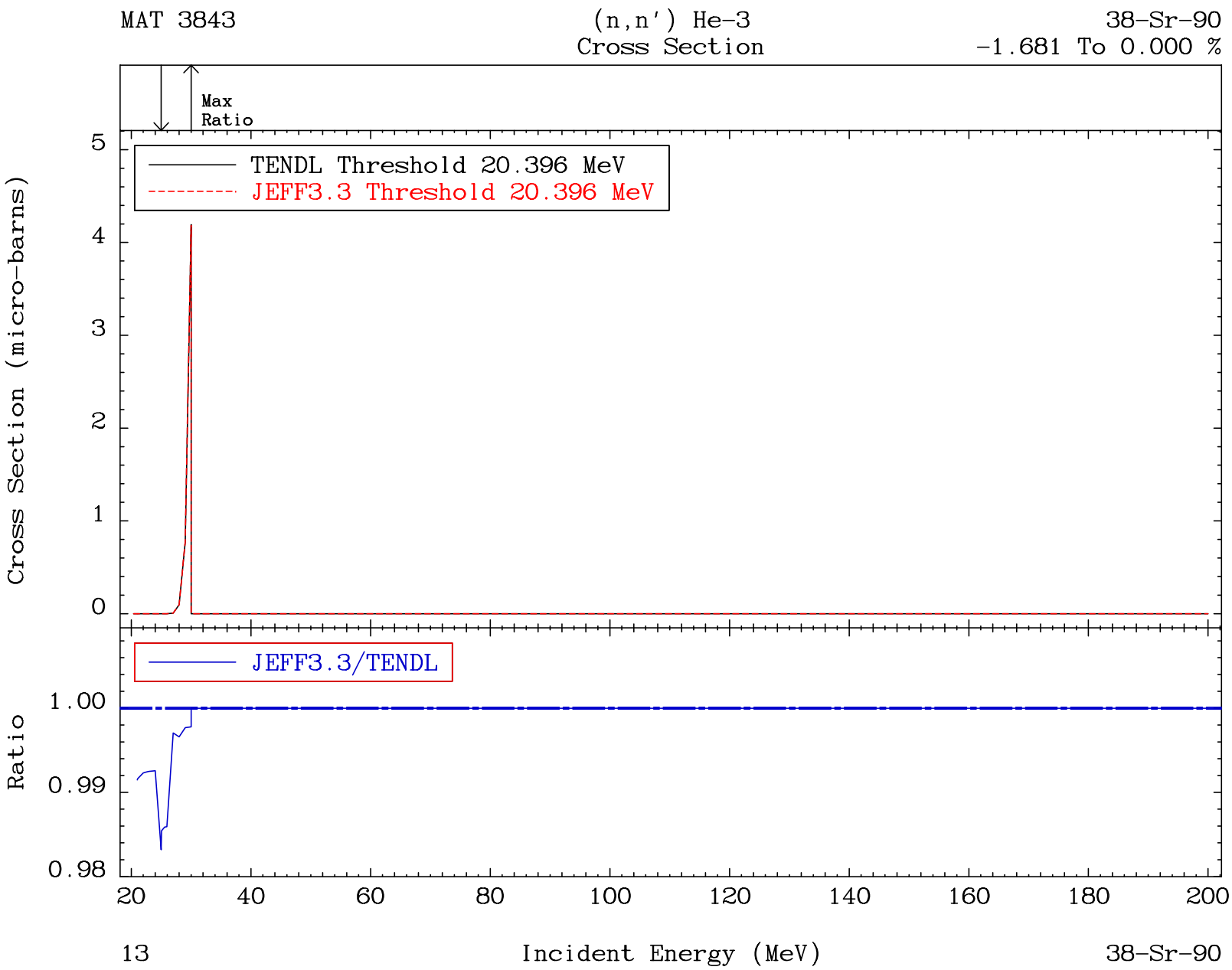

MAT 3843
(n,2n) α
Cross Section
38-Sr-90
-1.242 To 9136. %
Max Ratio
Min Ratio
TENDL Threshold 15.132 MeV
JEFF3.3 Threshold 15.132 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
8
38-Sr-90

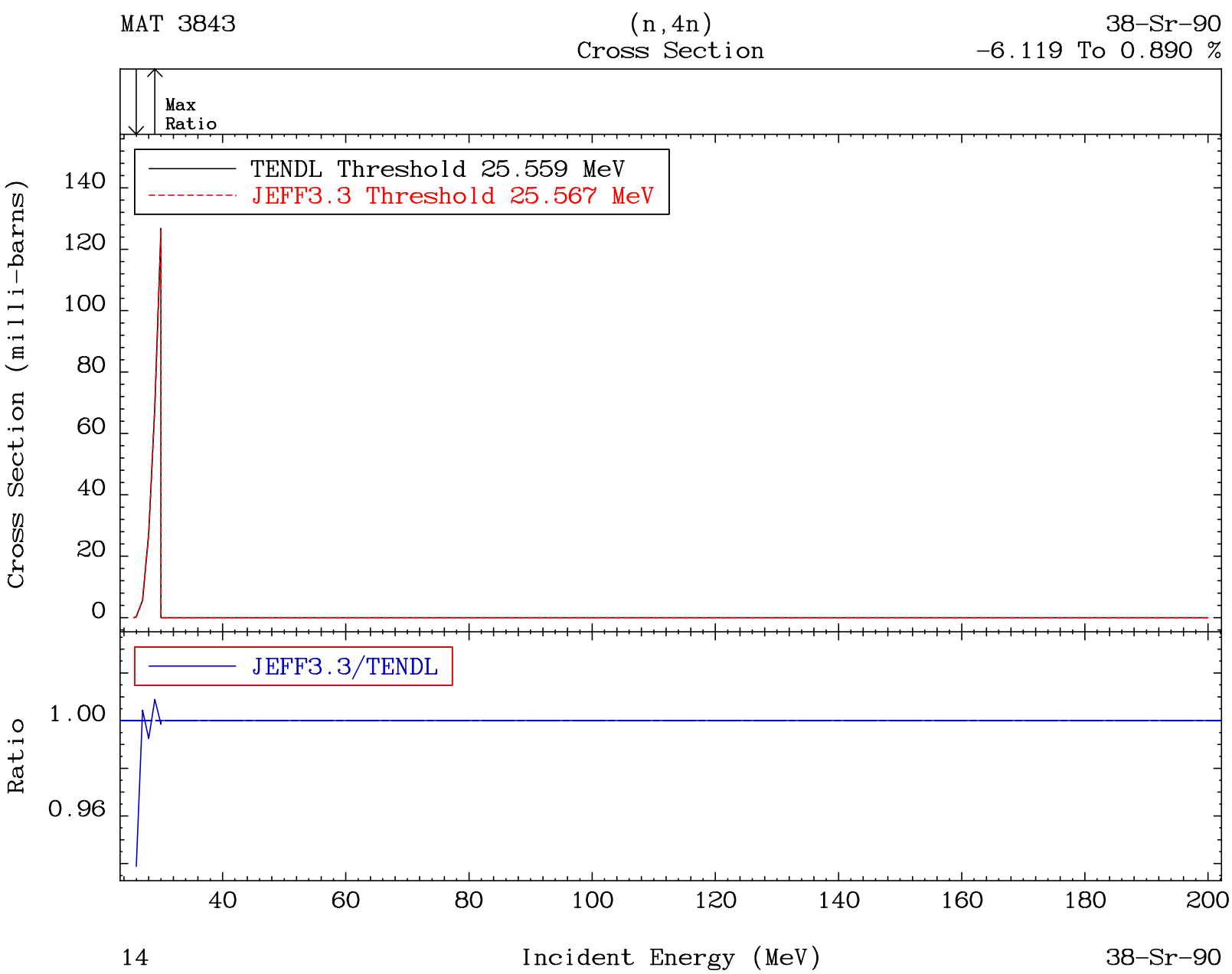

MAT 3843
(n,3n) α
Cross Section
38-Sr-90
-99.95 To 1539. %
Max
Ratio
TENDL Threshold 22.291 MeV
JEFF3.3 Threshold 22.291 MeV
Cross Section (10-9 barns)
160
120
80
40
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
38-Sr-90

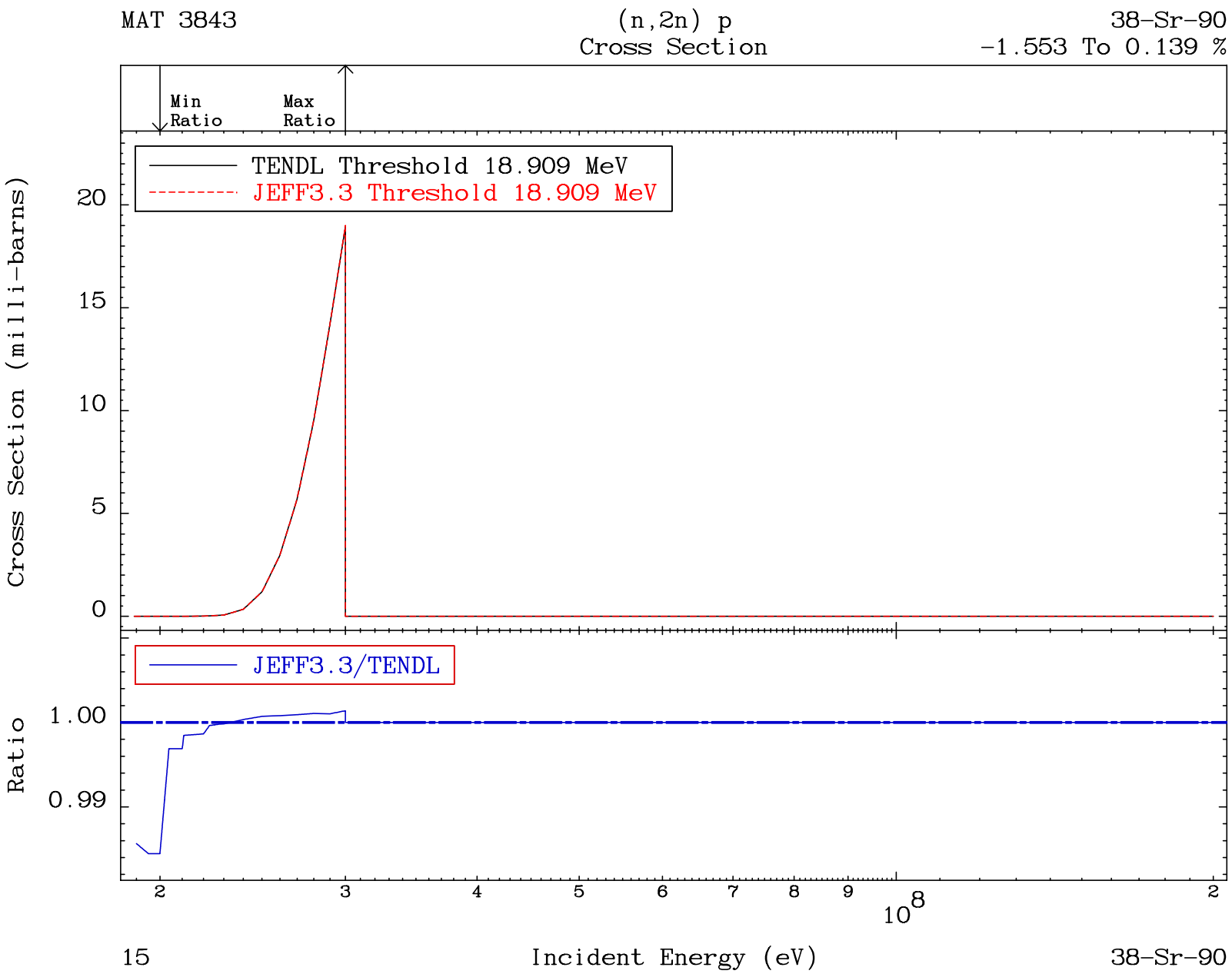

MAT 3843
(n,n') p
Cross Section
38-Sr-90
-3.629 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 11.654 MeV
JEFF3.3 Threshold 11.654 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
38-Sr-90

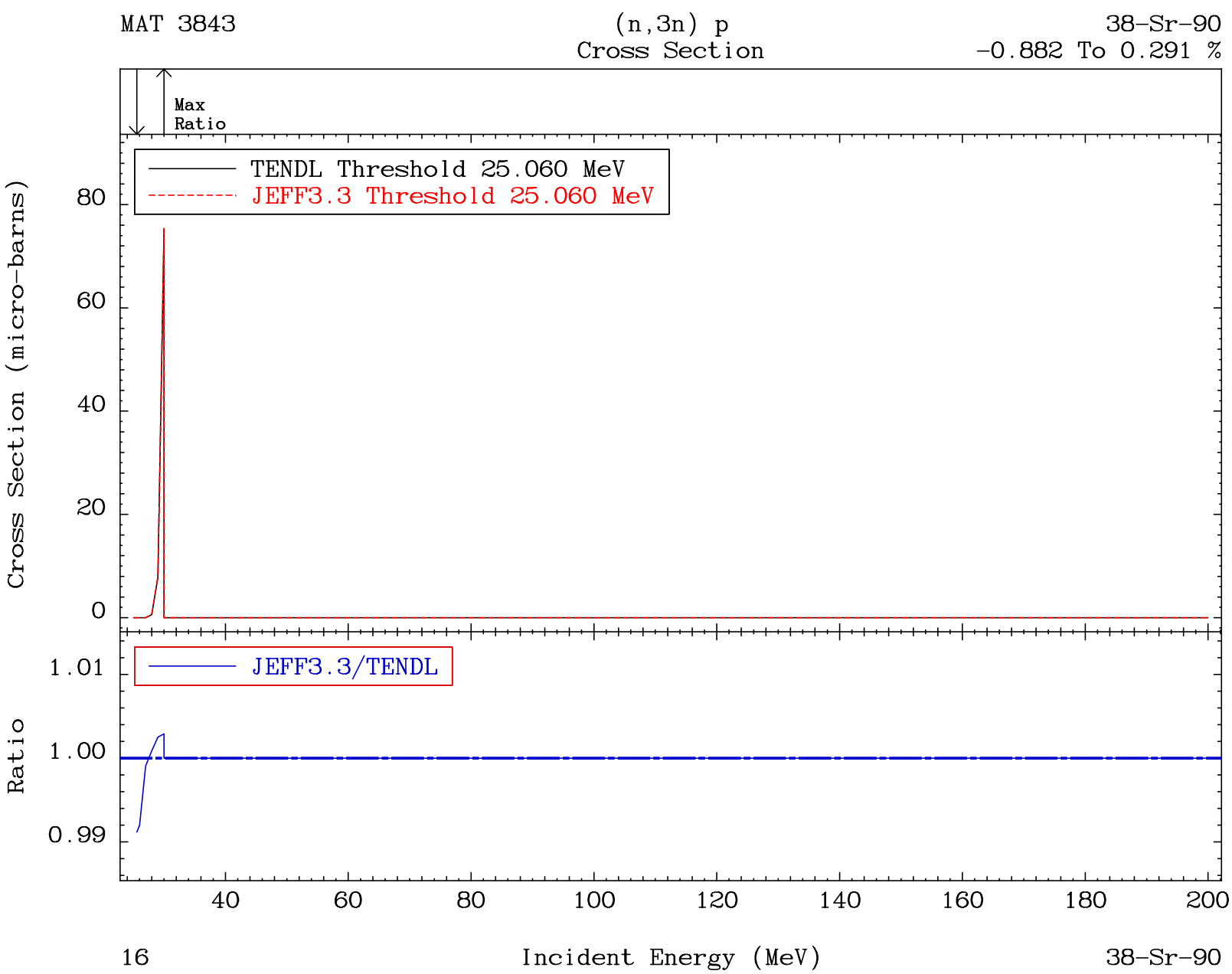

MAT 3843
(n,n') d
Cross Section
38-Sr-90
-1.033 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.660 MeV
JEFF3.3 Threshold 16.660 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
38-Sr-90

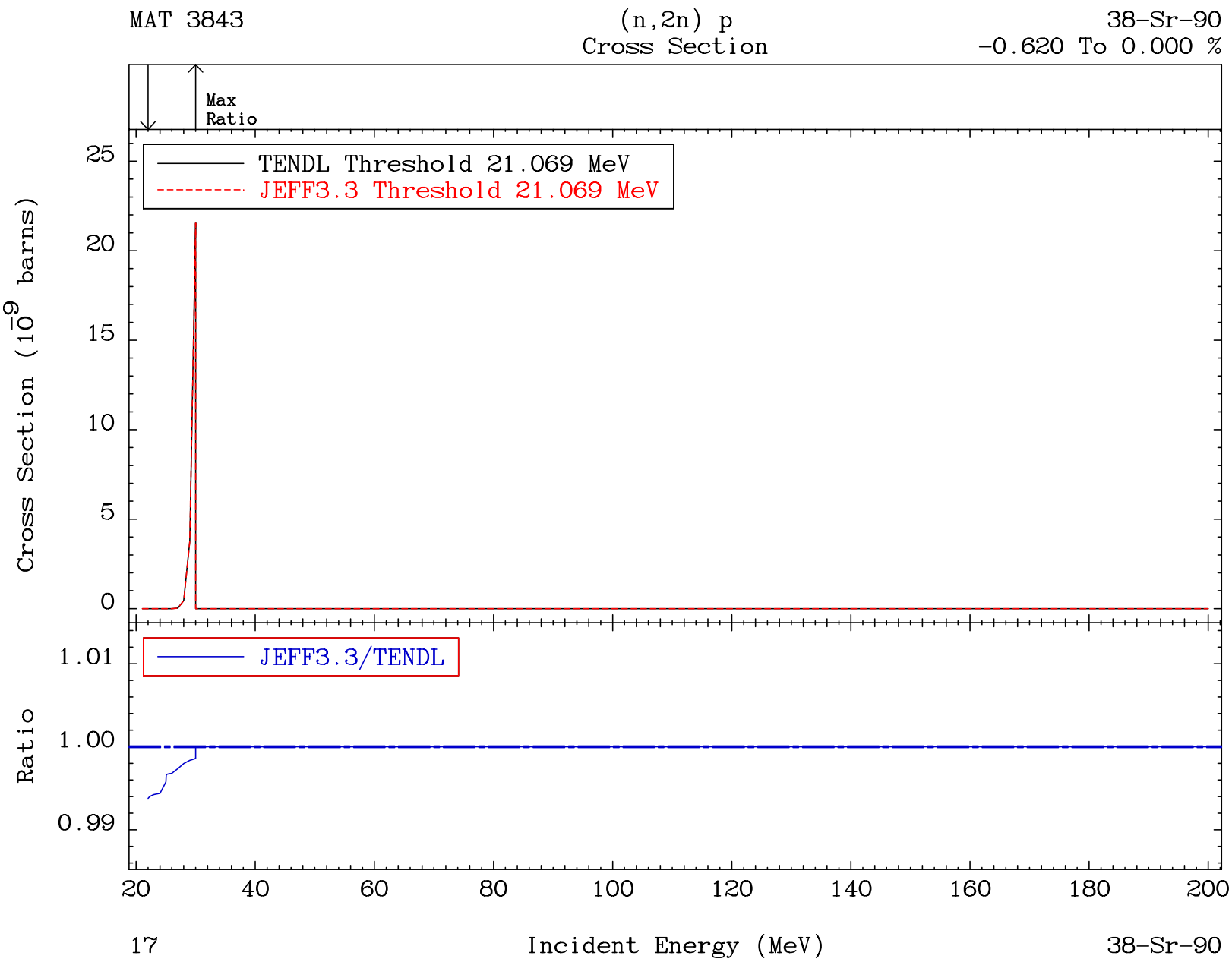

MAT 3843
(n,n') t
Cross Section
38-Sr-90
-5.111 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.483 MeV
JEFF3.3 Threshold 16.483 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.96
0.98
1.00
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
38-Sr-90

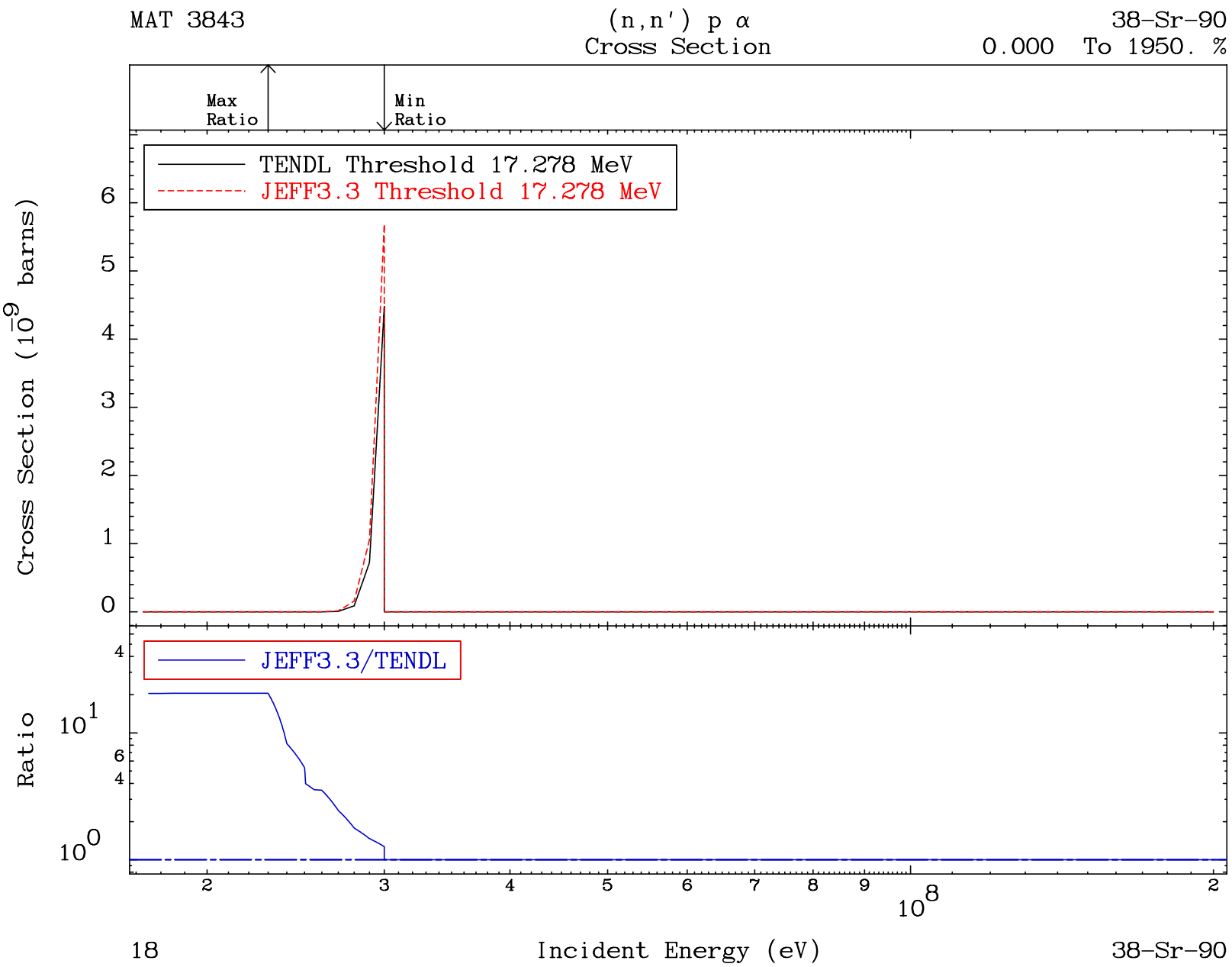

MAT 3843
(n,n') He-3
Cross Section
38-Sr-90
-1.681 To 0.000 %
Max
Ratio
TENDL Threshold 20.396 MeV
JEFF3.3 Threshold 20.396 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (MeV)
13
38-Sr-90

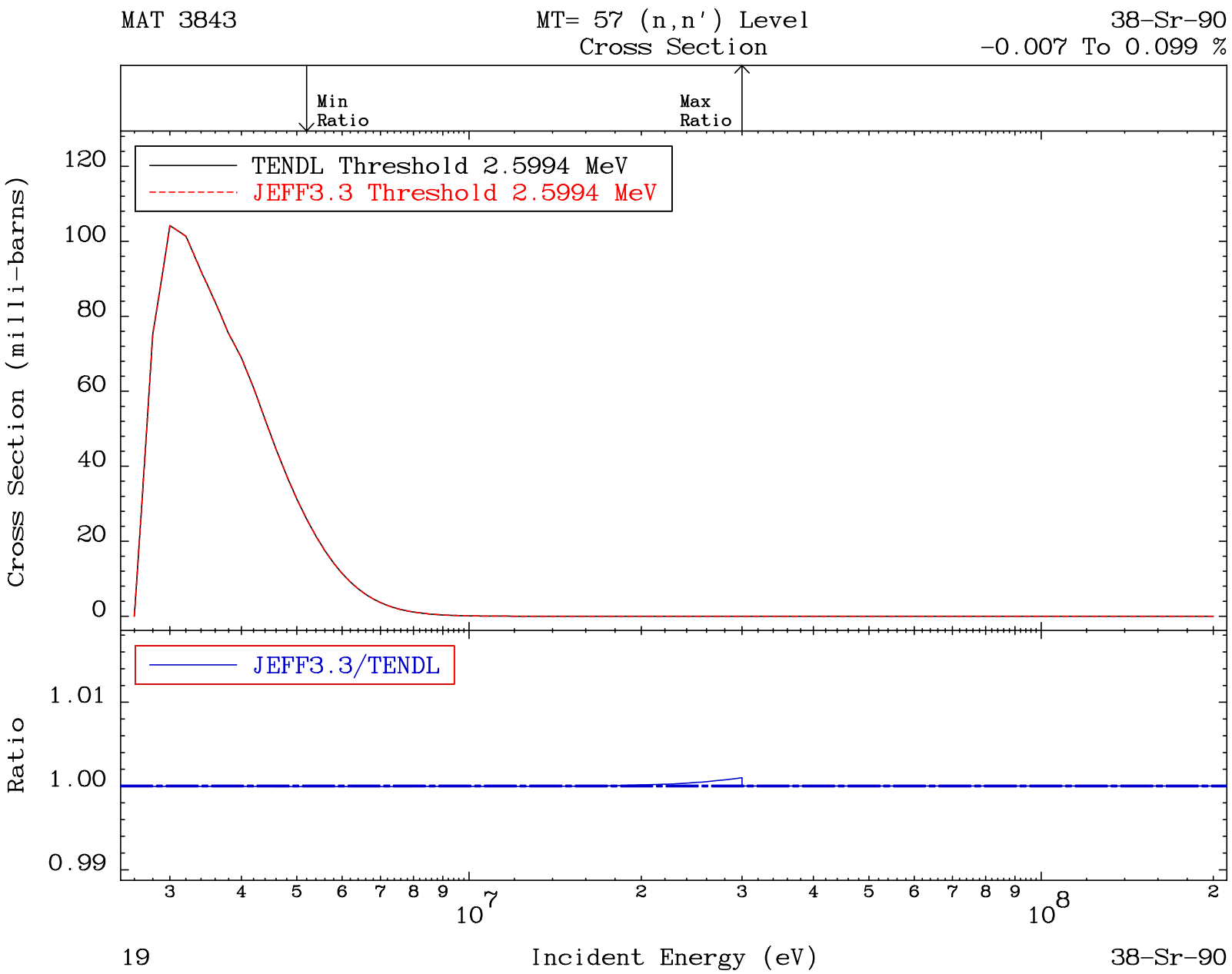

MAT 3843
(n,4n)
Cross Section
38-Sr-90
-6.119 To 0.890 %
Max
Ratio
TENDL Threshold 25.559 MeV
JEFF3.3 Threshold 25.567 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.96
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
38-Sr-90

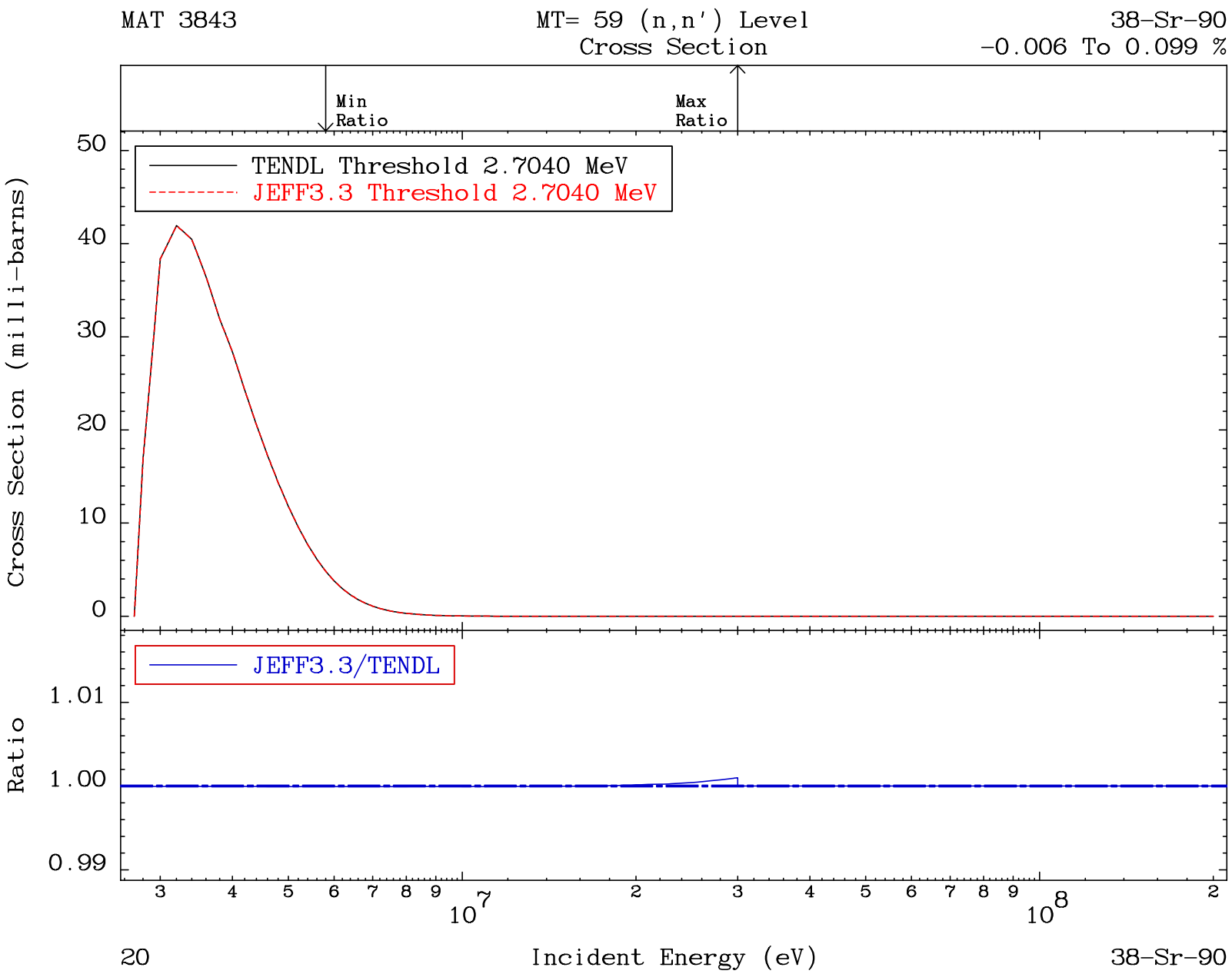

MAT 3843
(n,2n) p
Cross Section
38-Sr-90
-1.553 To 0.139 %
Min Ratio
Max Ratio
TENDL Threshold 18.909 MeV
JEFF3.3 Threshold 18.909 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
38-Sr-90

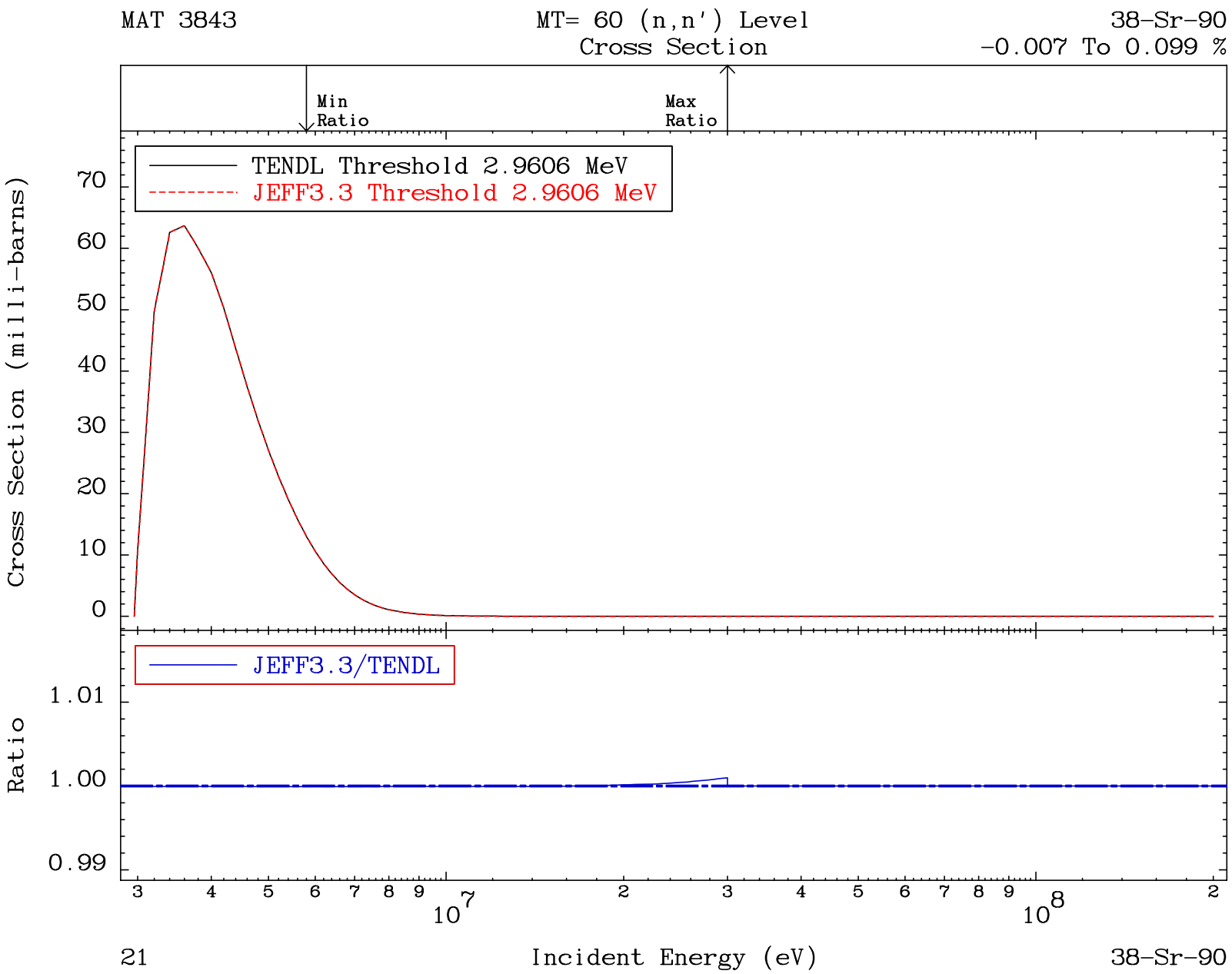

MAT 3843
(n,3n) p
Cross Section
38-Sr-90
-0.882 To 0.291 %
Max
Ratio
TENDL Threshold 25.060 MeV
JEFF3.3 Threshold 25.060 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
38-Sr-90

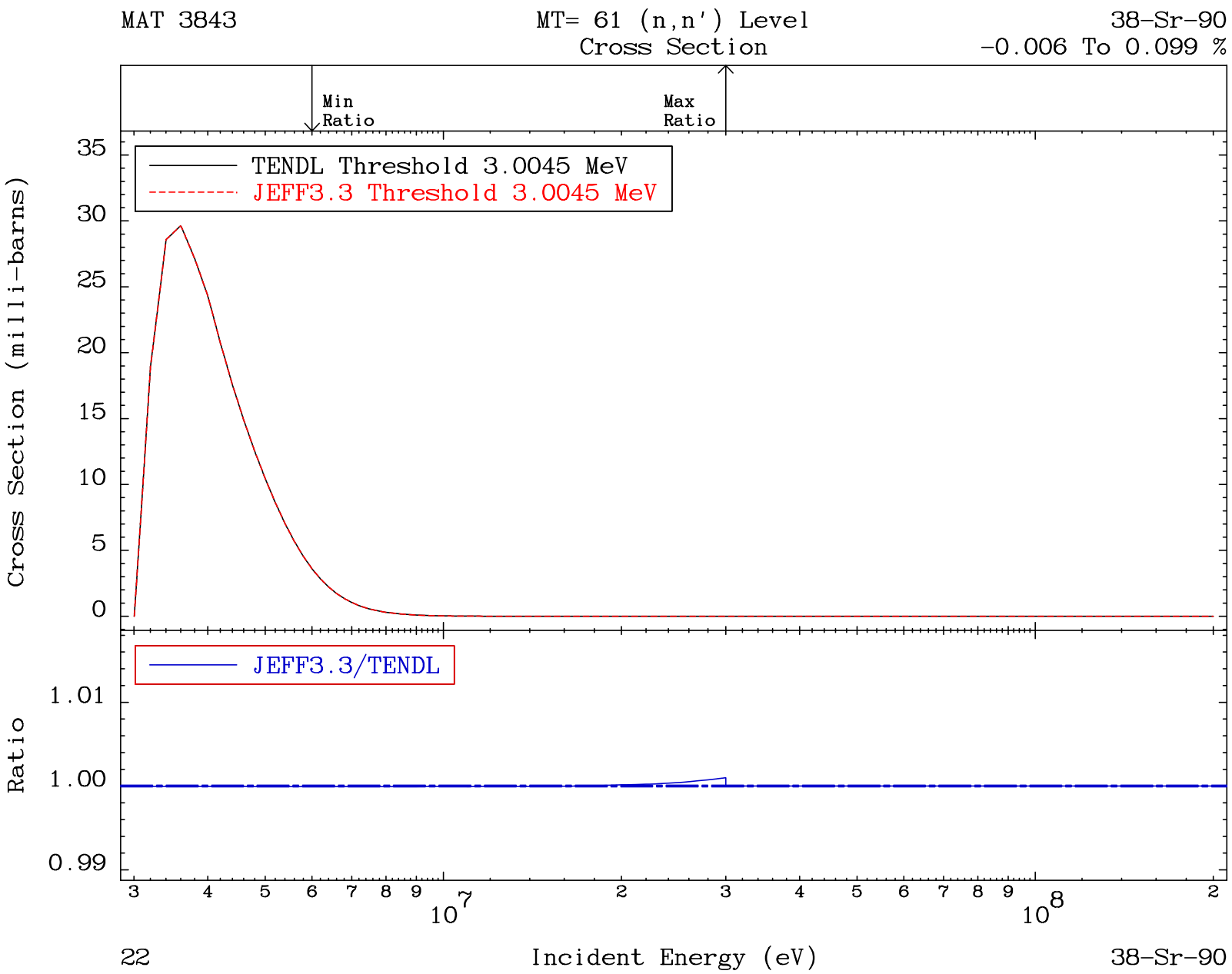

MAT 3843
(n,2n) p
Cross Section
38-Sr-90
-0.620 To 0.000 %
Max
Ratio
TENDL Threshold 21.069 MeV
JEFF3.3 Threshold 21.069 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
38-Sr-90

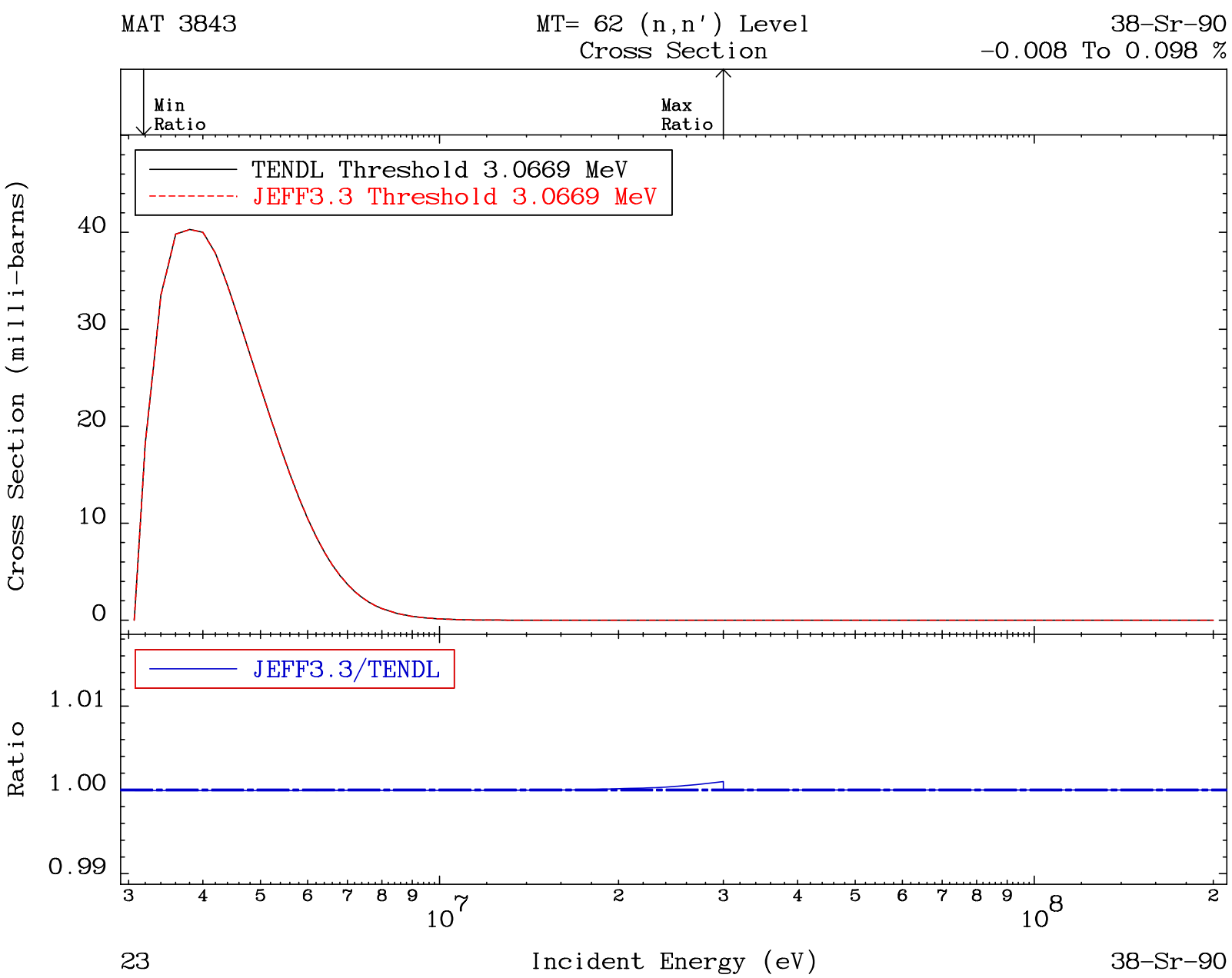

MAT 3843
(n,n') p α
Cross Section
38-Sr-90
0.000 To 1950. %
Max Ratio
Min Ratio
TENDL Threshold 17.278 MeV
JEFF3.3 Threshold 17.278 MeV
Cross Section (10^-9 barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
18
38-Sr-90

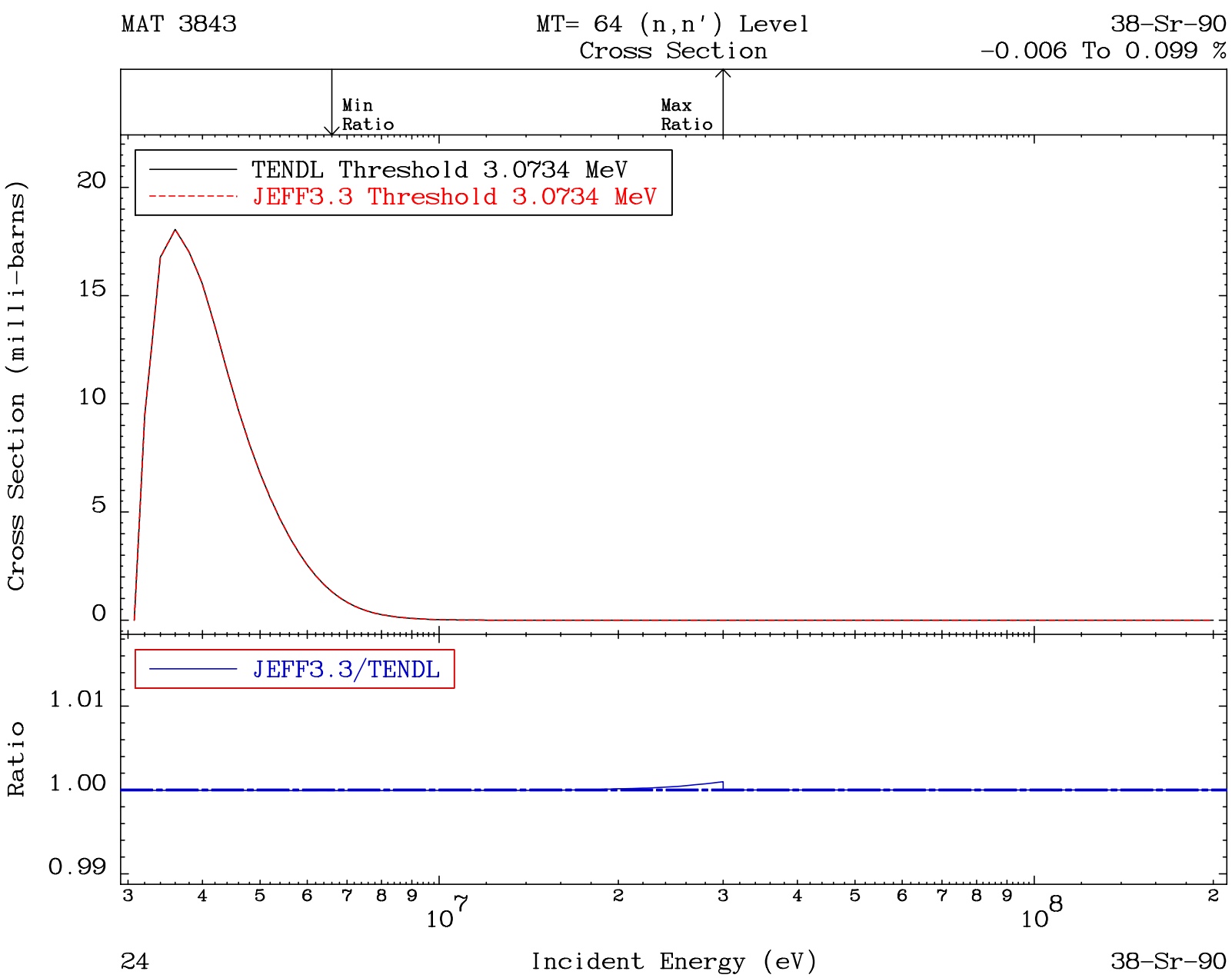

MAT 3843
MT= 57 (n,n') Level
Cross Section
38-Sr-90
-0.007 To 0.099 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5994 MeV
JEFF3.3 Threshold 2.5994 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
19
Incident Energy (eV)
38-Sr-90

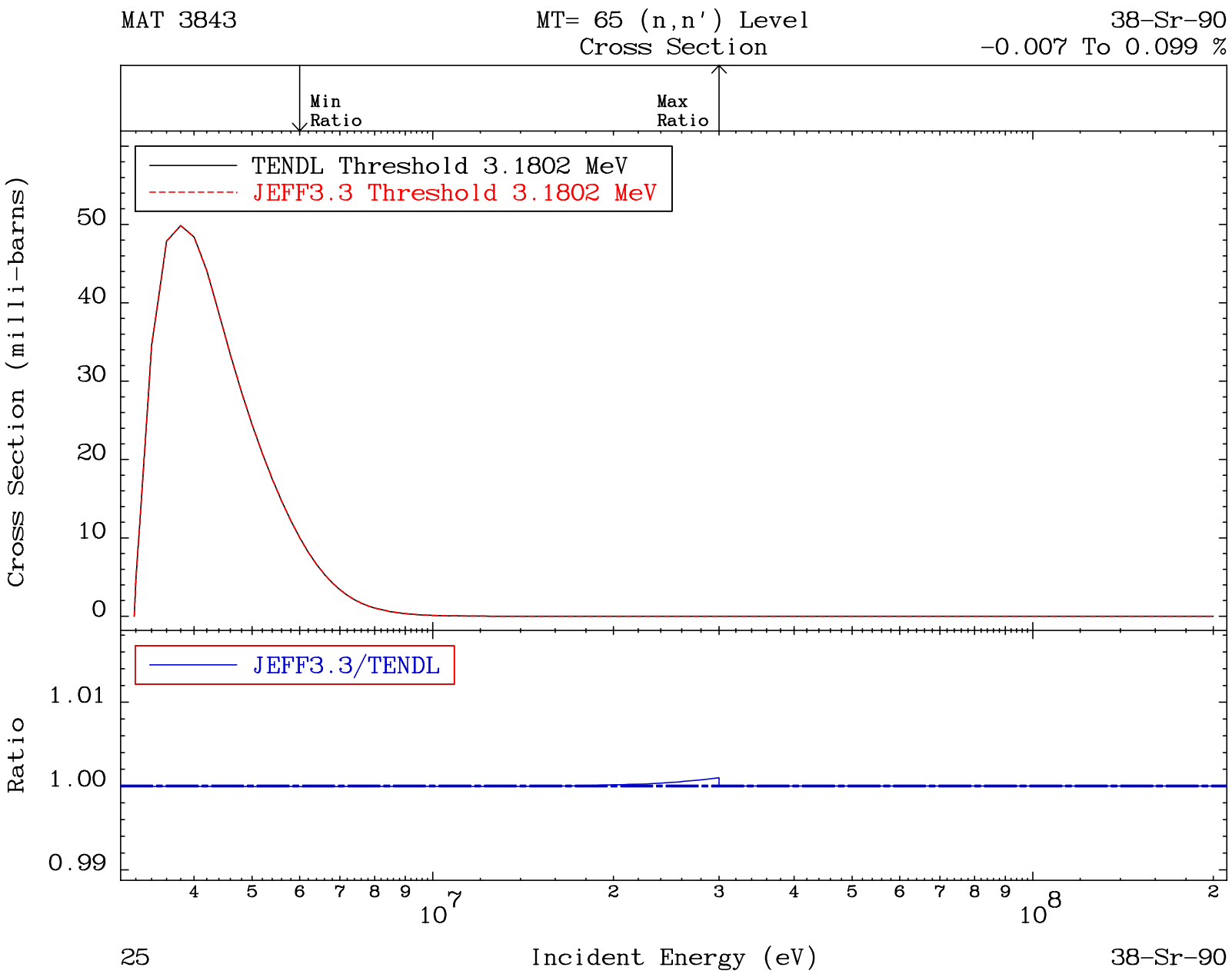

MAT 3843
MT= 59 (n,n') Level
Cross Section
38-Sr-90
-0.006 To 0.099 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7040 MeV
JEFF3.3 Threshold 2.7040 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
20
Incident Energy (eV)
38-Sr-90

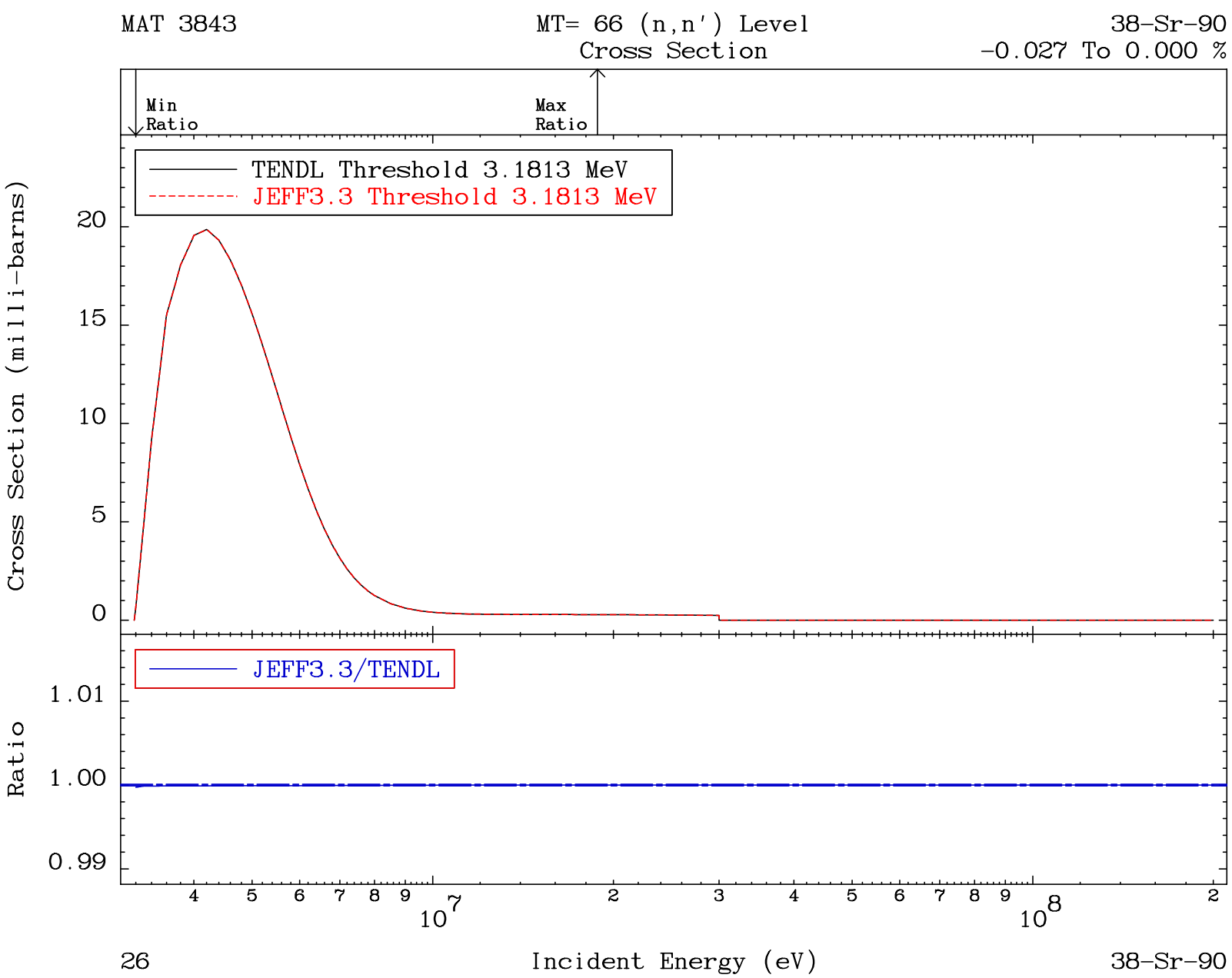

MAT 3843
MT= 60 (n,n') Level
Cross Section
38-Sr-90
-0.007 To 0.099 %
Min Ratio
Max Ratio
TENDL Threshold 2.9606 MeV
JEFF3.3 Threshold 2.9606 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
38-Sr-90

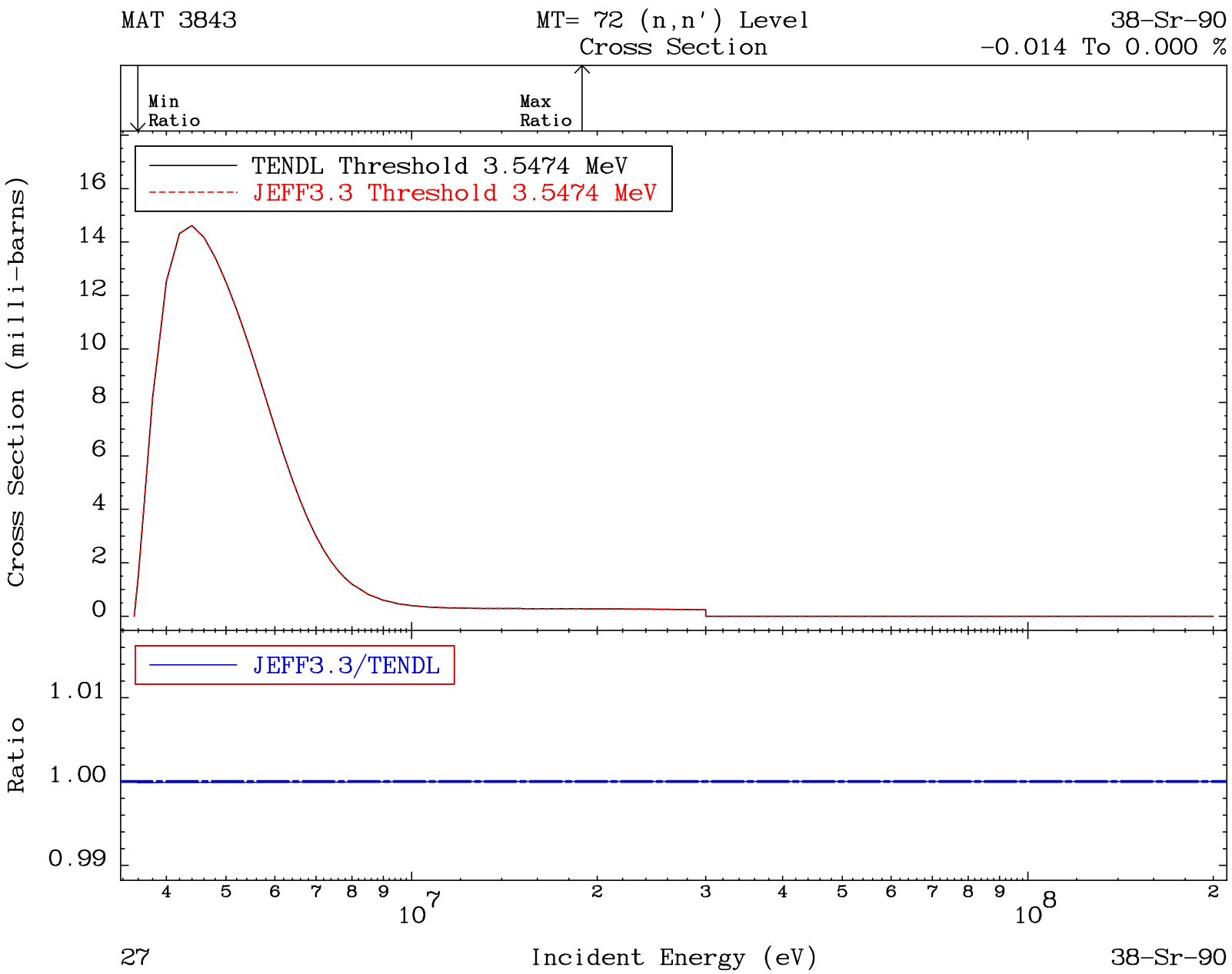

MAT 3843
MT= 61 (n,n') Level
Cross Section
38-Sr-90
-0.006 To 0.099 %
Min Ratio
Max Ratio
TENDL Threshold 3.0045 MeV
JEFF3.3 Threshold 3.0045 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
38-Sr-90

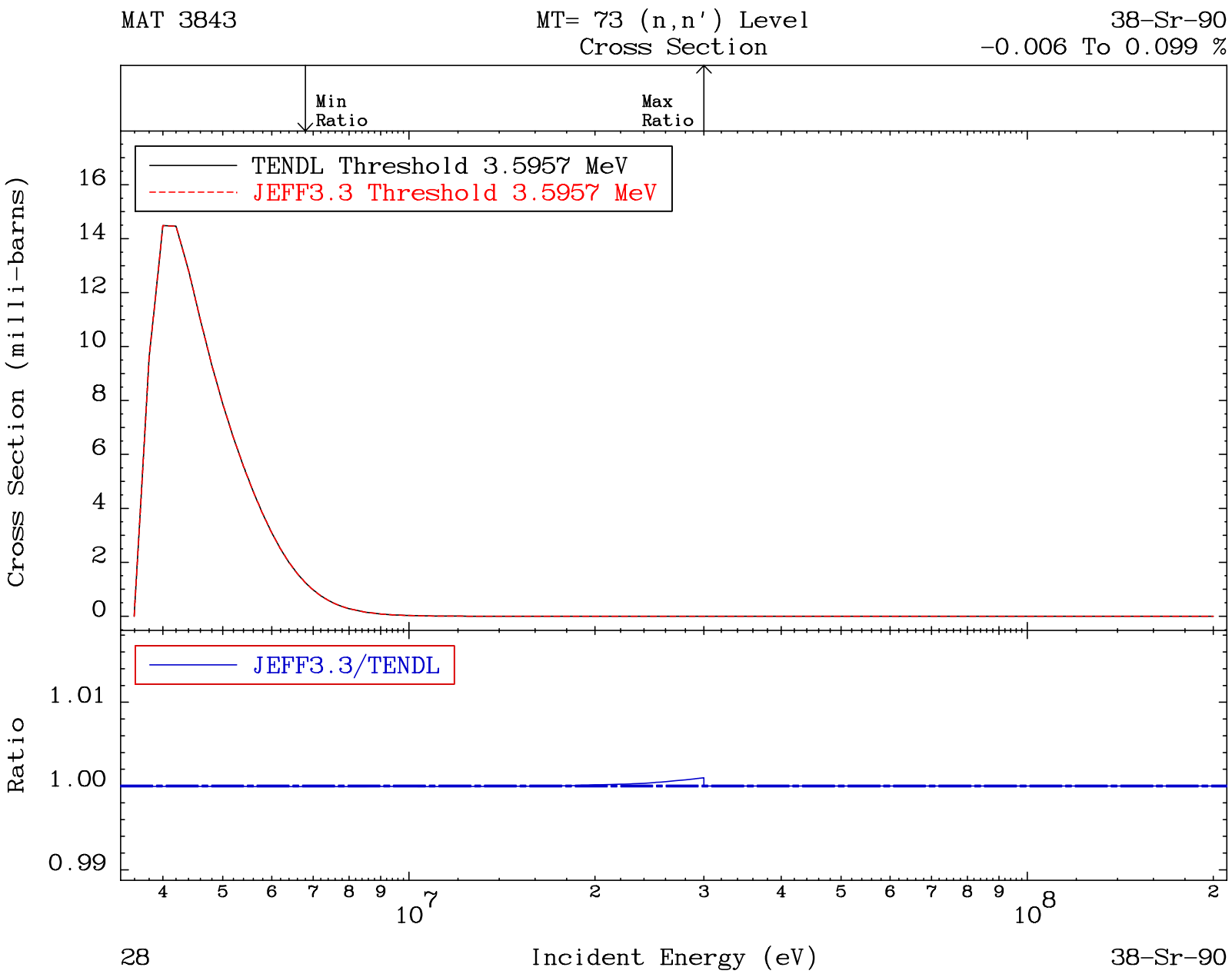

MAT 3843
MT= 62 (n,n') Level
Cross Section
38-Sr-90
-0.008 To 0.098 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.0669 MeV
JEFF3.3 Threshold 3.0669 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
23
Incident Energy (eV)
38-Sr-90

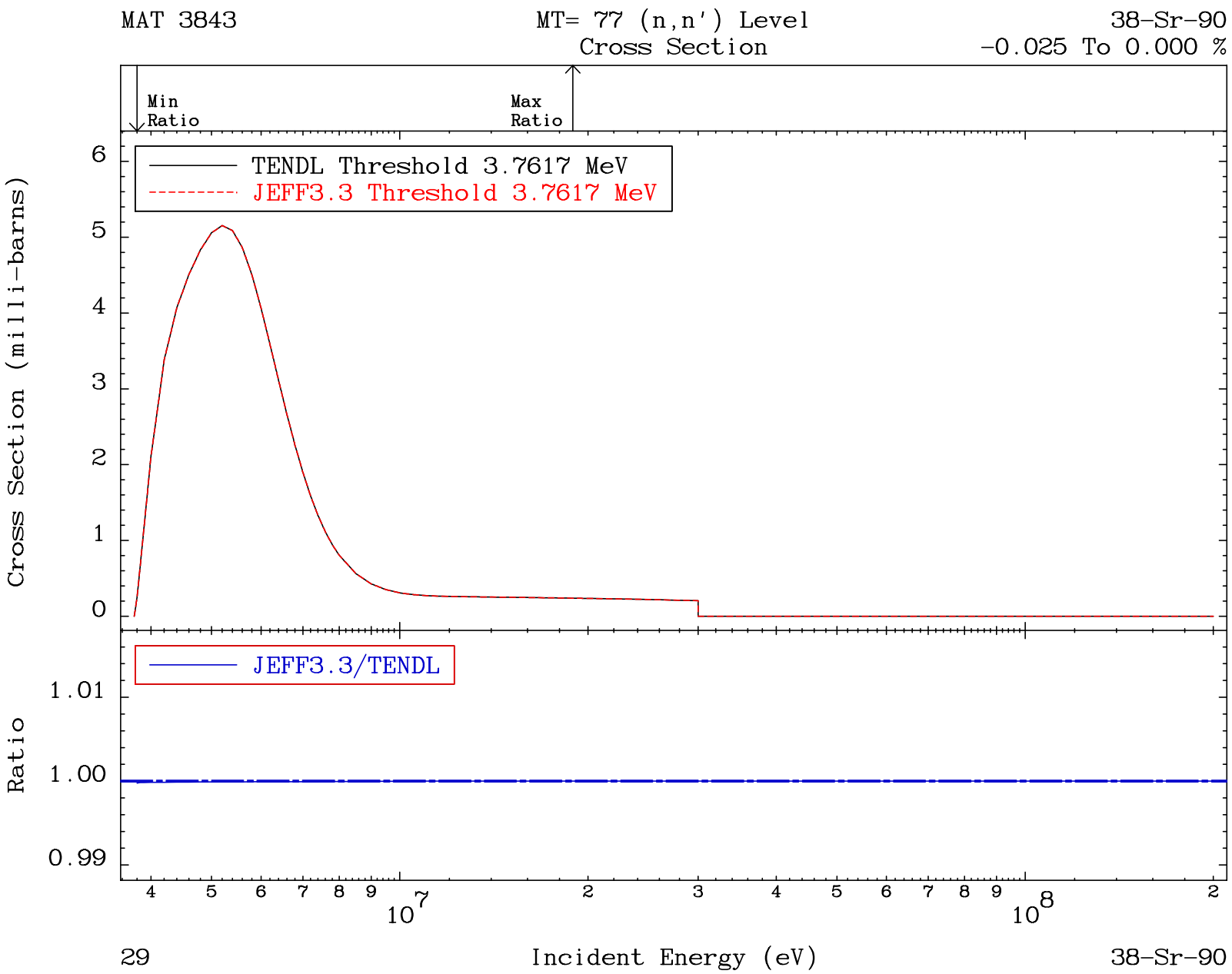

MAT 3843
MT= 64 (n,n') Level
Cross Section
38-Sr-90
-0.006 To 0.099 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.0734 MeV
JEFF3.3 Threshold 3.0734 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
24
Incident Energy (eV)
38-Sr-90

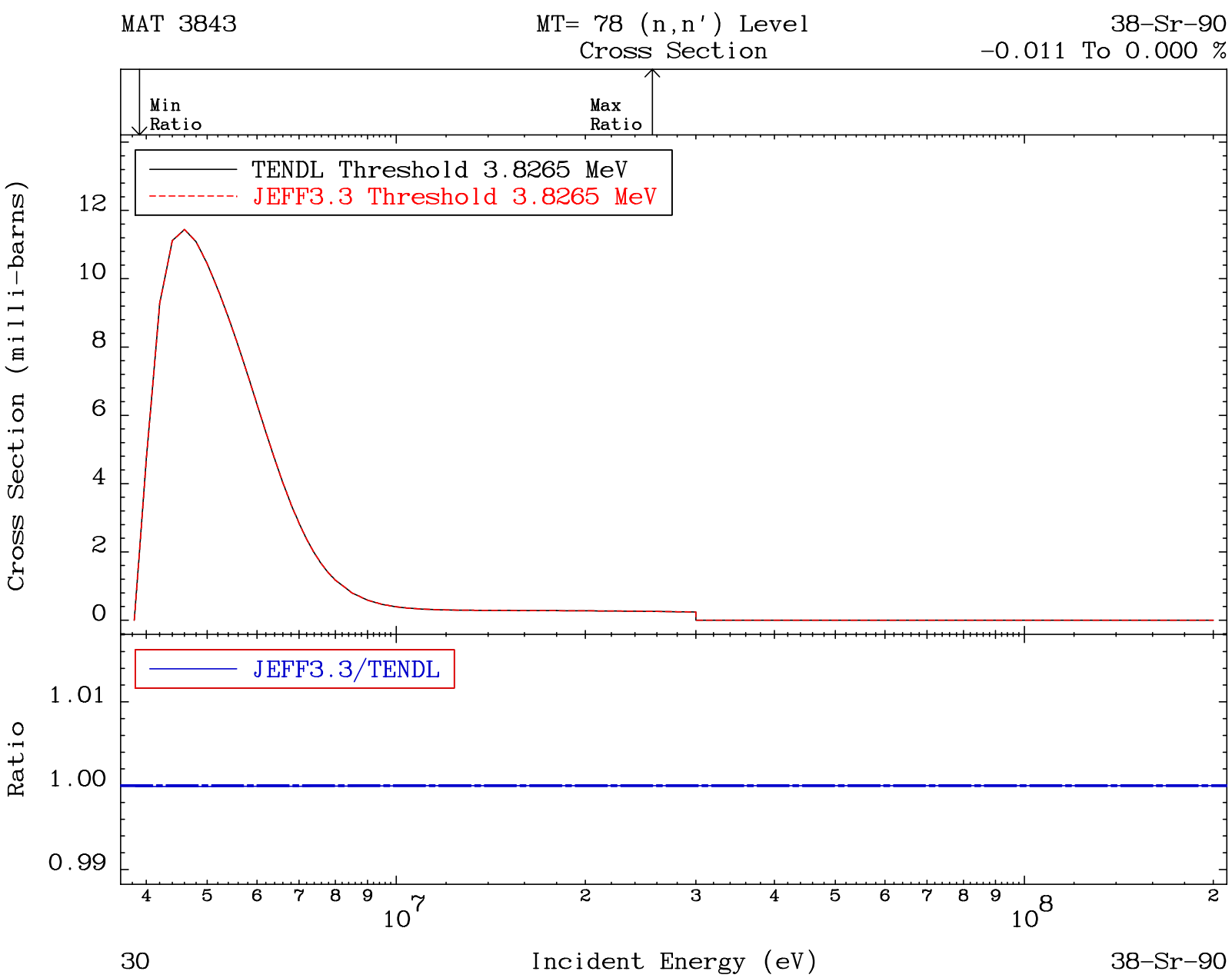

MAT 3843
MT= 65 (n,n') Level
Cross Section
38-Sr-90
-0.007 To 0.099 %
Min Ratio
Max Ratio
TENDL Threshold 3.1802 MeV
JEFF3.3 Threshold 3.1802 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
38-Sr-90

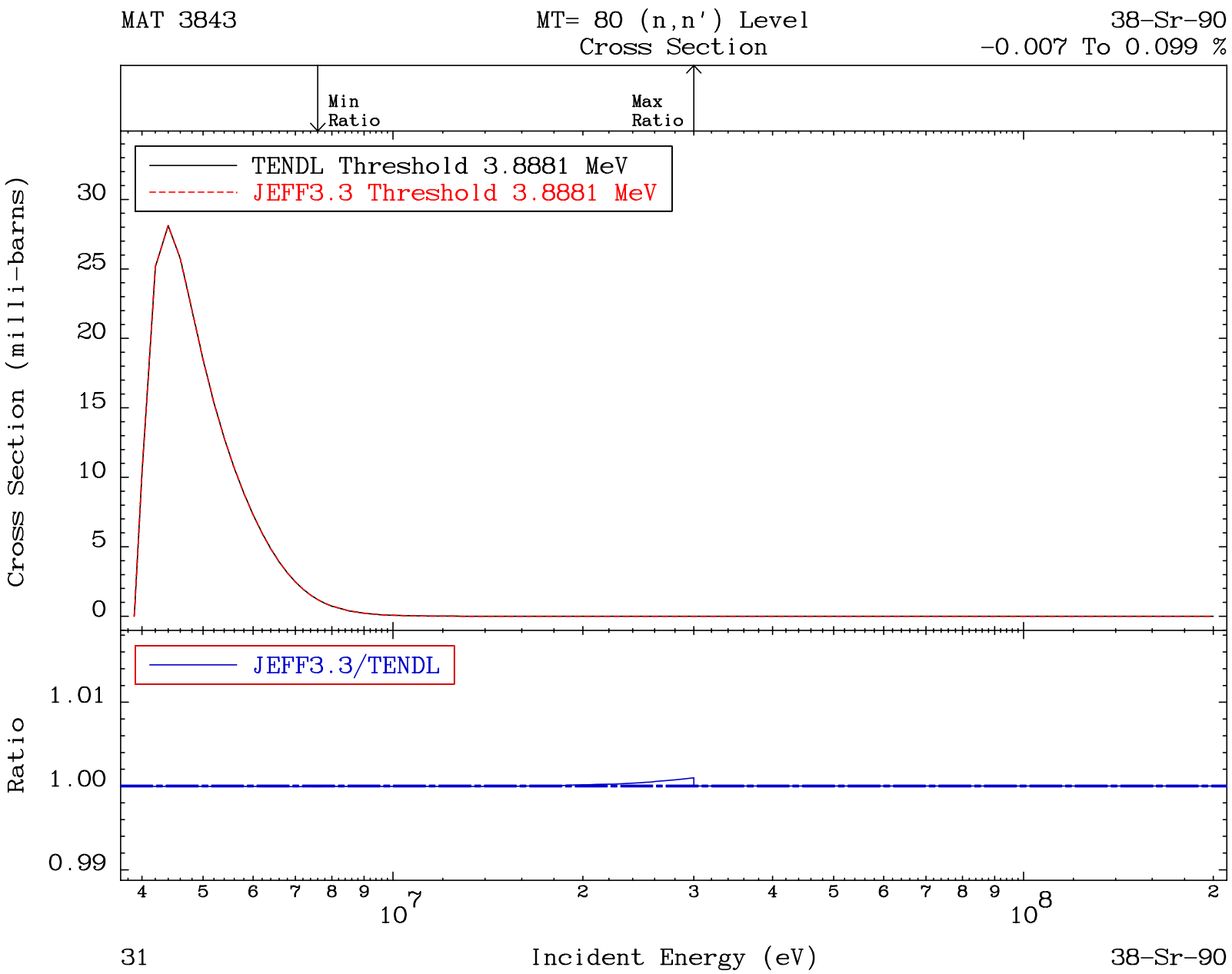

MAT 3843
MT= 66 (n,n') Level
Cross Section
38-Sr-90
-0.027 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.1813 MeV
JEFF3.3 Threshold 3.1813 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
38-Sr-90

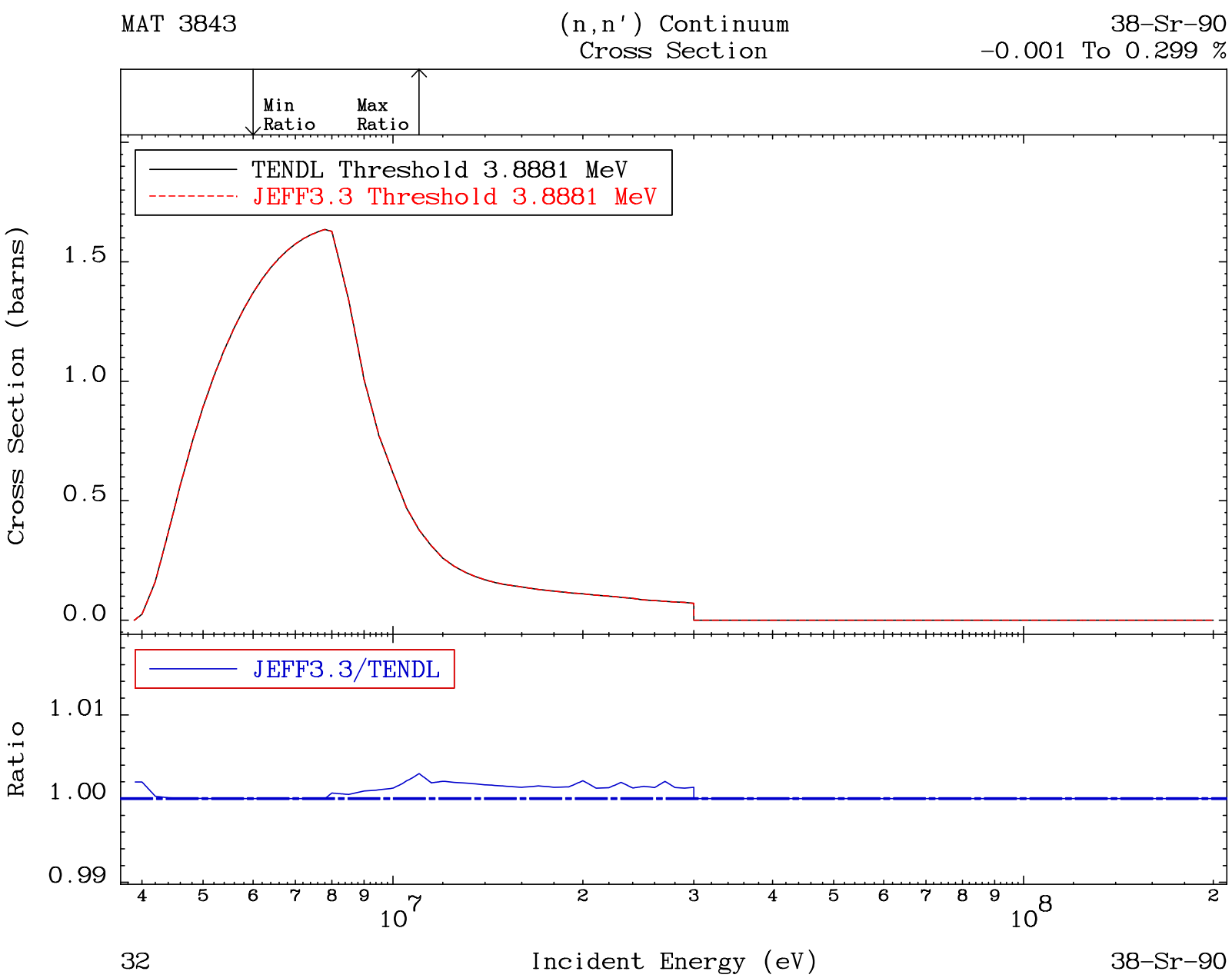

MAT 3843
MT= 72 (n,n') Level
Cross Section
38-Sr-90
-0.014 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.5474 MeV
JEFF3.3 Threshold 3.5474 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
38-Sr-90

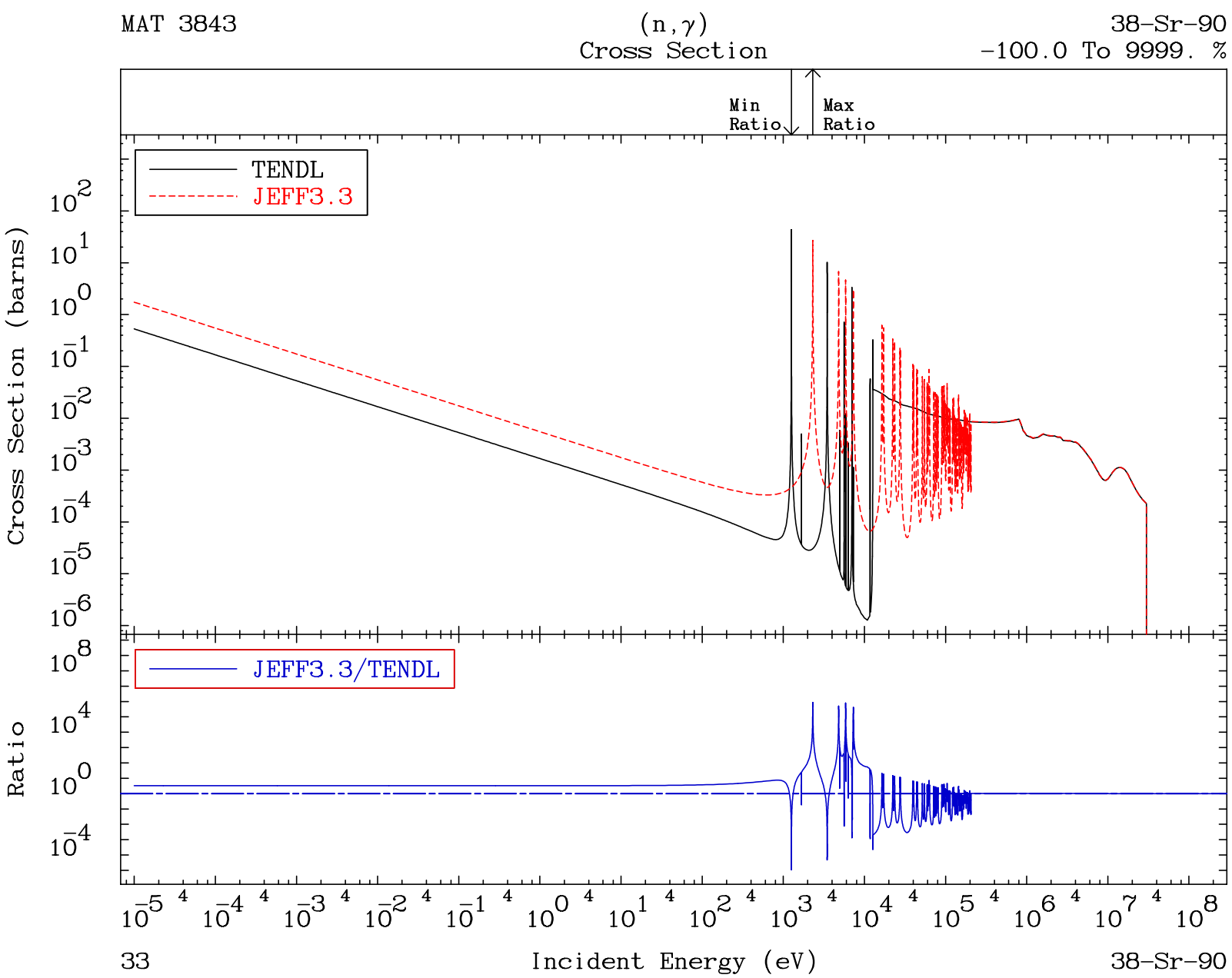

MAT 3843
MT= 73 (n,n') Level
Cross Section
38-Sr-90
-0.006 To 0.099 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.5957 MeV
JEFF3.3 Threshold 3.5957 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
28
Incident Energy (eV)
38-Sr-90

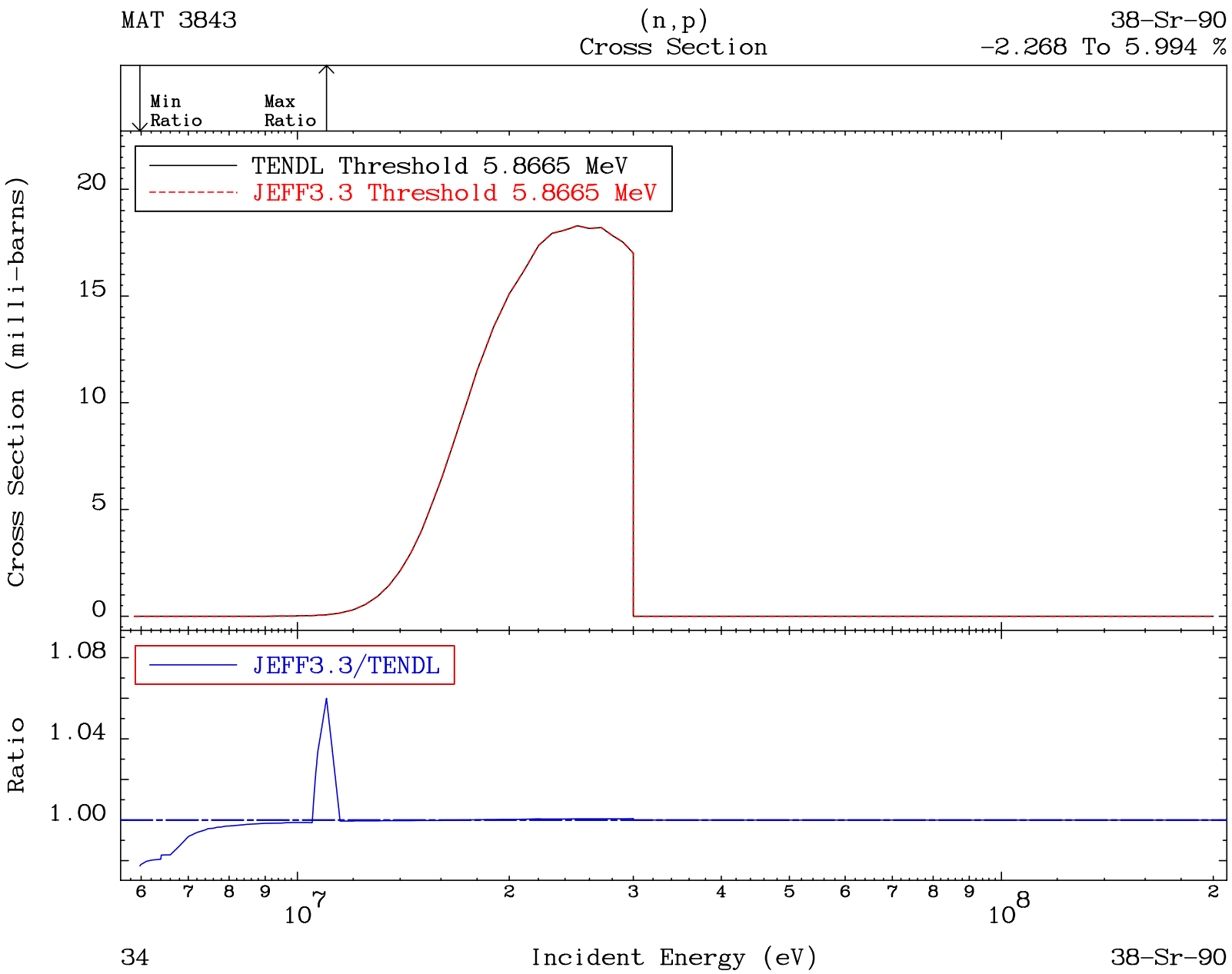

MAT 3843
MT= 77 (n,n') Level
Cross Section
38-Sr-90
-0.025 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.7617 MeV
JEFF3.3 Threshold 3.7617 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
38-Sr-90

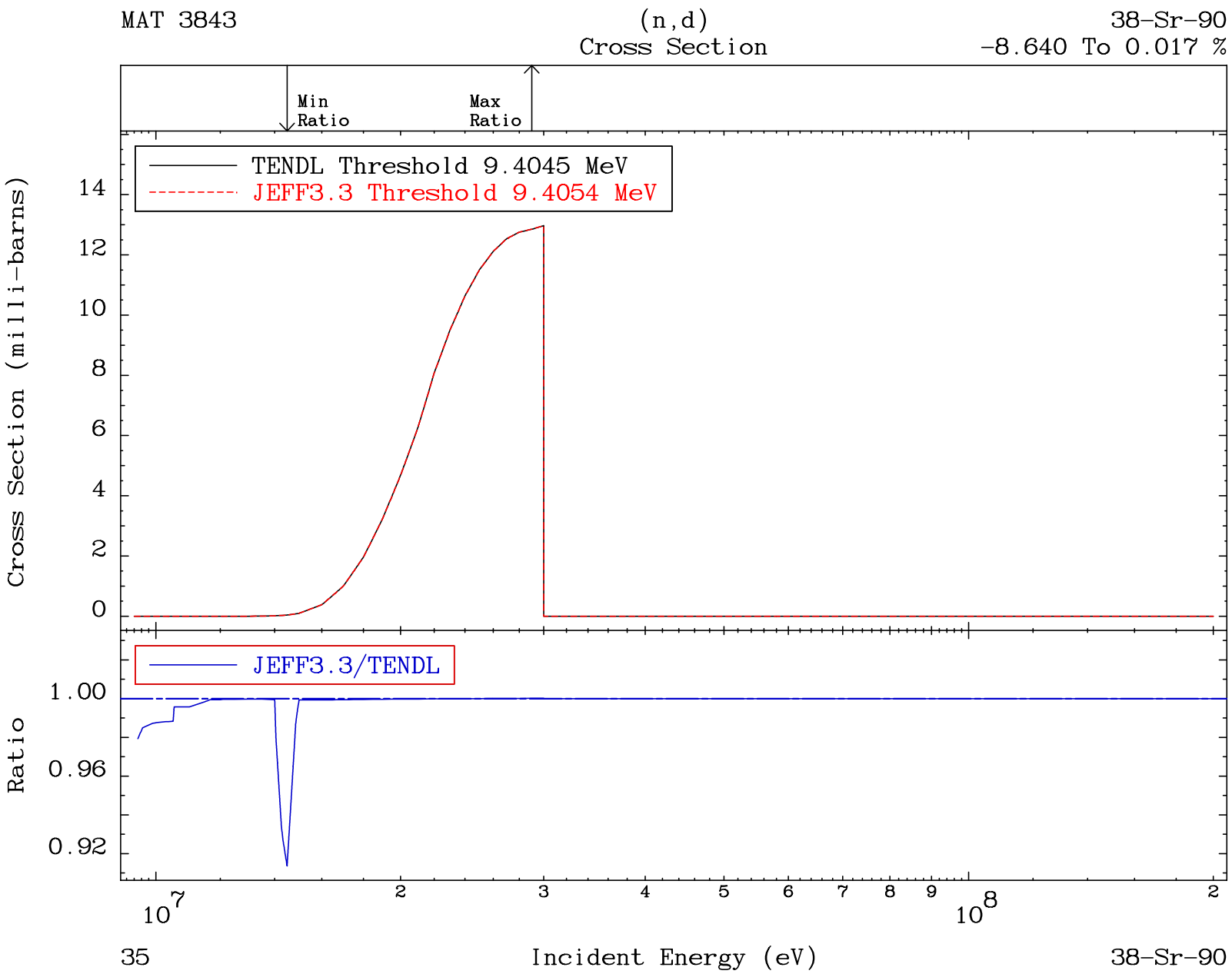

MAT 3843
MT= 78 (n,n') Level
Cross Section
38-Sr-90
-0.011 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.8265 MeV
JEFF3.3 Threshold 3.8265 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
30
Incident Energy (eV)
38-Sr-90

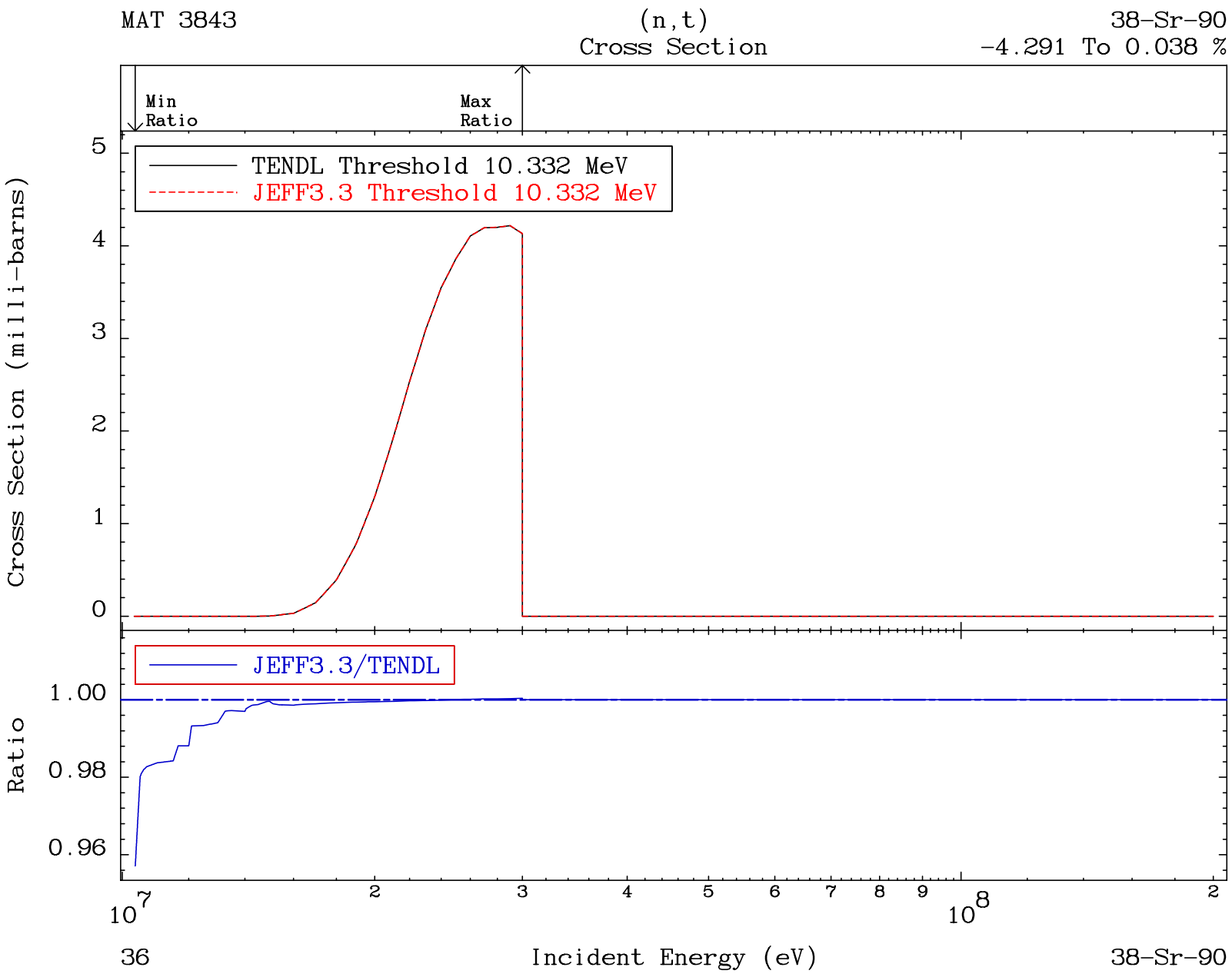

MAT 3843
MT= 80 (n,n') Level
Cross Section
38-Sr-90
-0.007 To 0.099 %
Min Ratio
Max Ratio
TENDL Threshold 3.8881 MeV
JEFF3.3 Threshold 3.8881 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
38-Sr-90

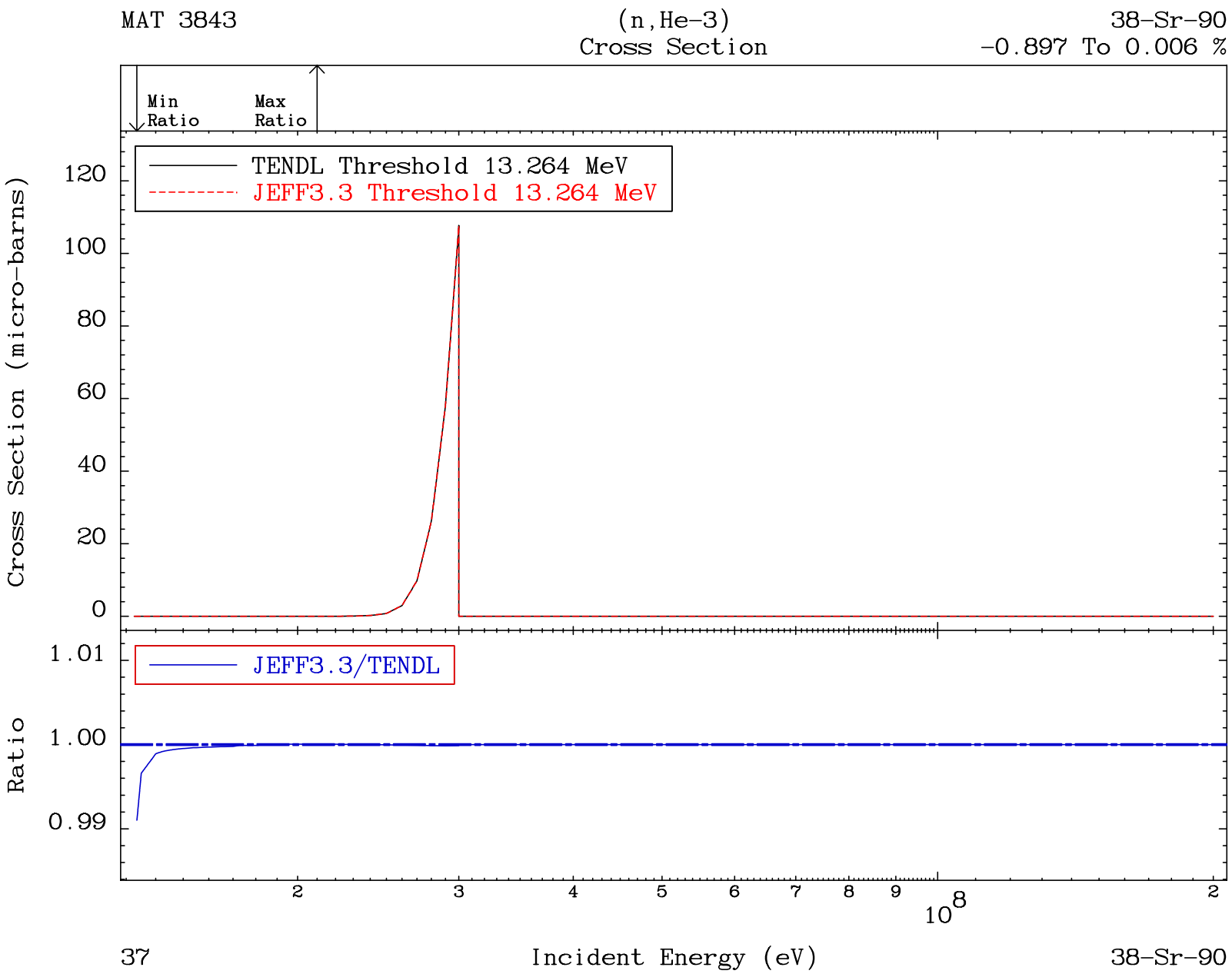

MAT 3843
(n,n') Continuum
Cross Section
38-Sr-90
-0.001 To 0.299 %
Min Ratio
Max Ratio
TENDL Threshold 3.8881 MeV
JEFF3.3 Threshold 3.8881 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
38-Sr-90

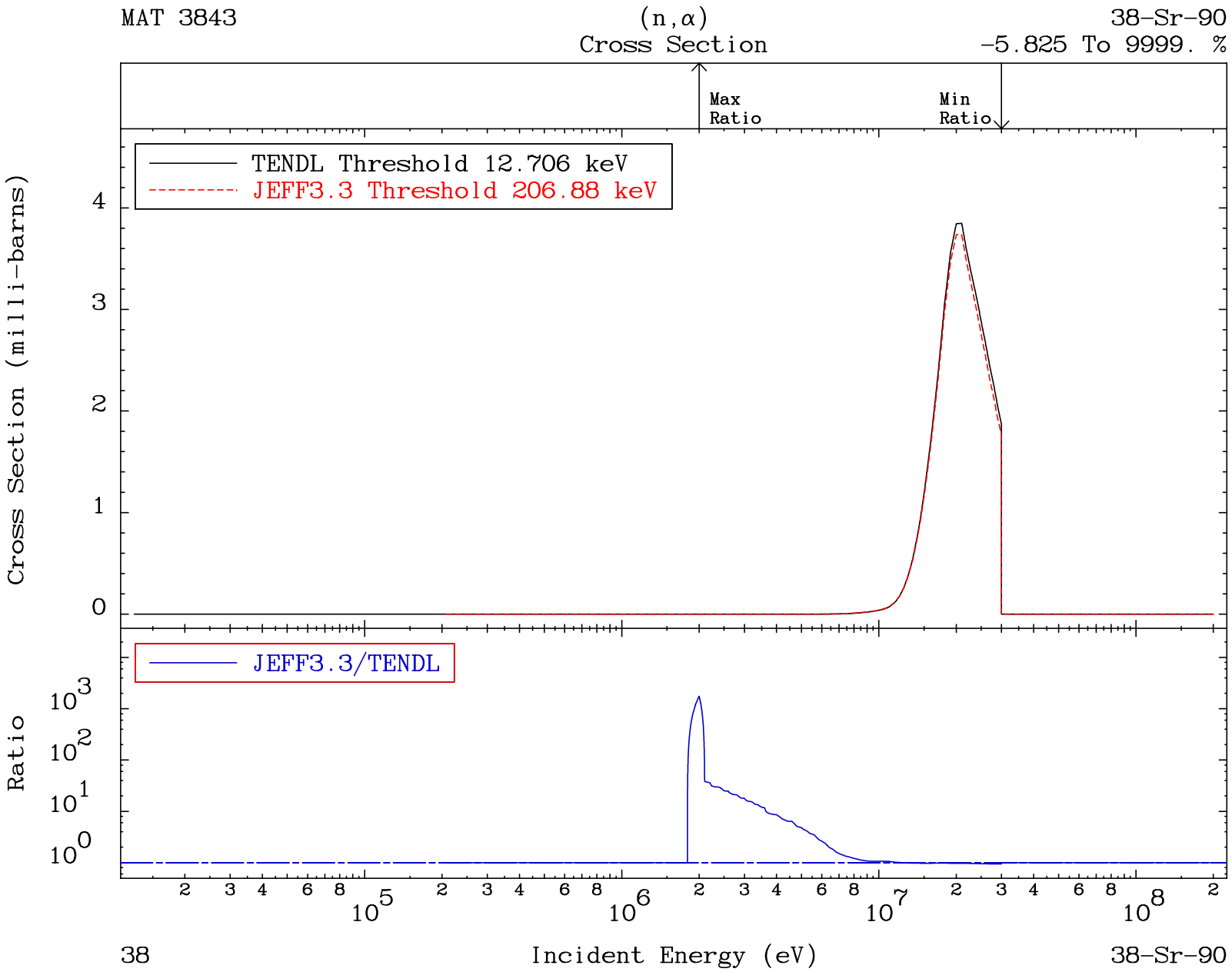

MAT 3843
(n,γ)
Cross Section
38-Sr-90
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
33
38-Sr-90

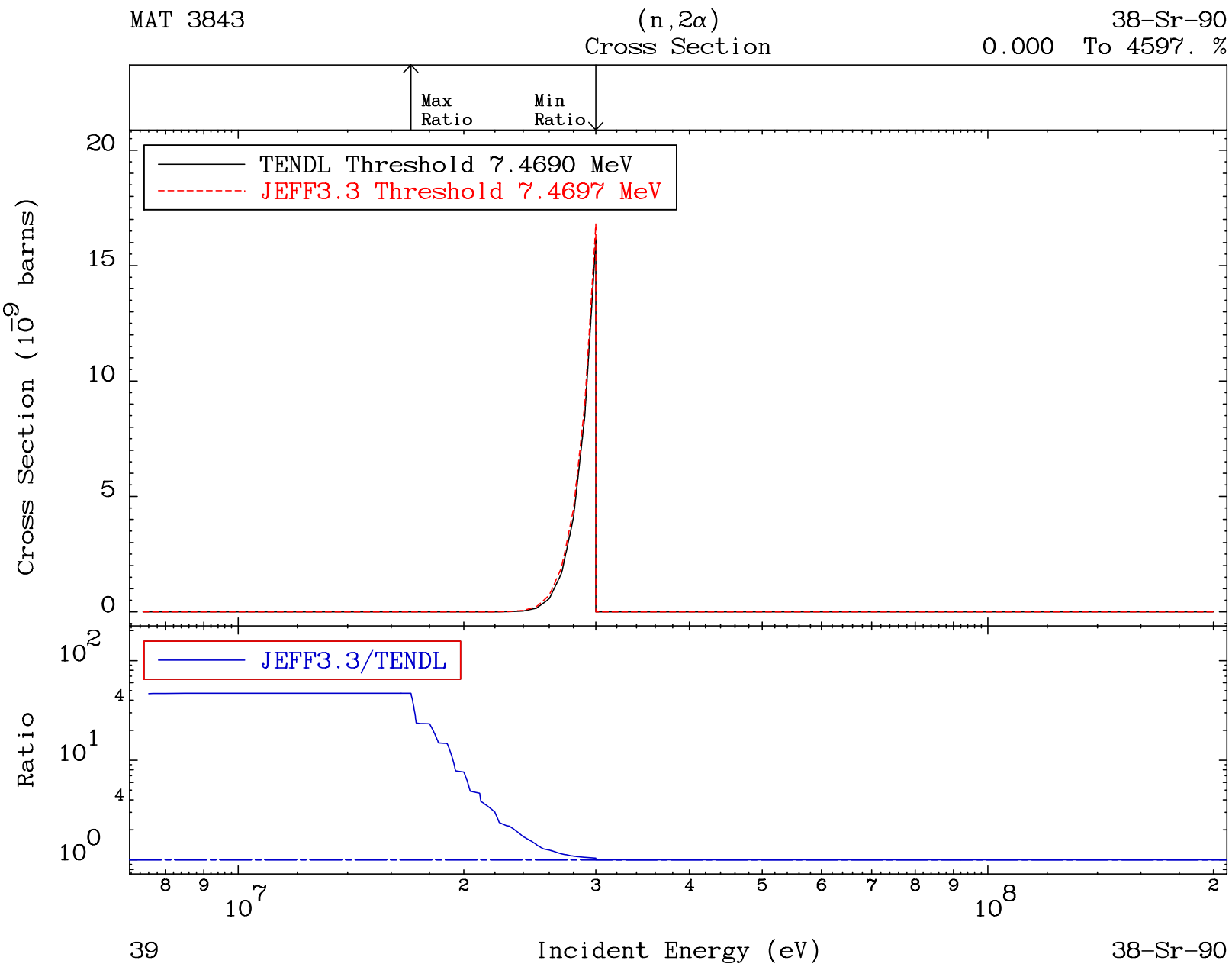

MAT 3843
(n,p)
Cross Section
38-Sr-90
-2.268 To 5.994 %
Min Ratio
Max Ratio
TENDL Threshold 5.8665 MeV
JEFF3.3 Threshold 5.8665 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.08
1.04
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
38-Sr-90

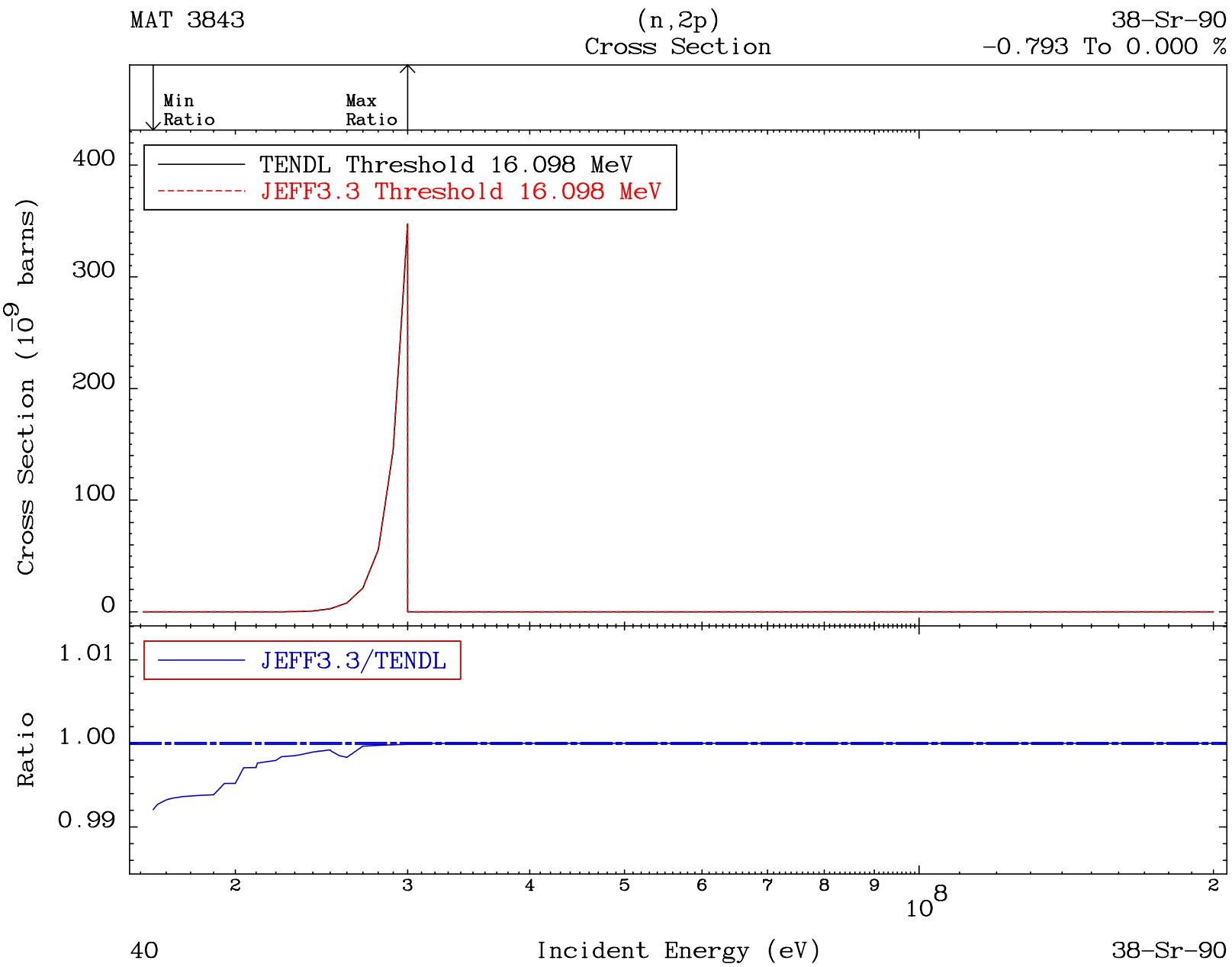

MAT 3843
(n,d)
Cross Section
38-Sr-90
-8.640 To 0.017 %
Min Ratio
Max Ratio
TENDL Threshold 9.4045 MeV
JEFF3.3 Threshold 9.4054 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.00
0.96
0.92
10^7
2
3
4
5
6
7
8
9
10^8
2
35
Incident Energy (eV)
38-Sr-90

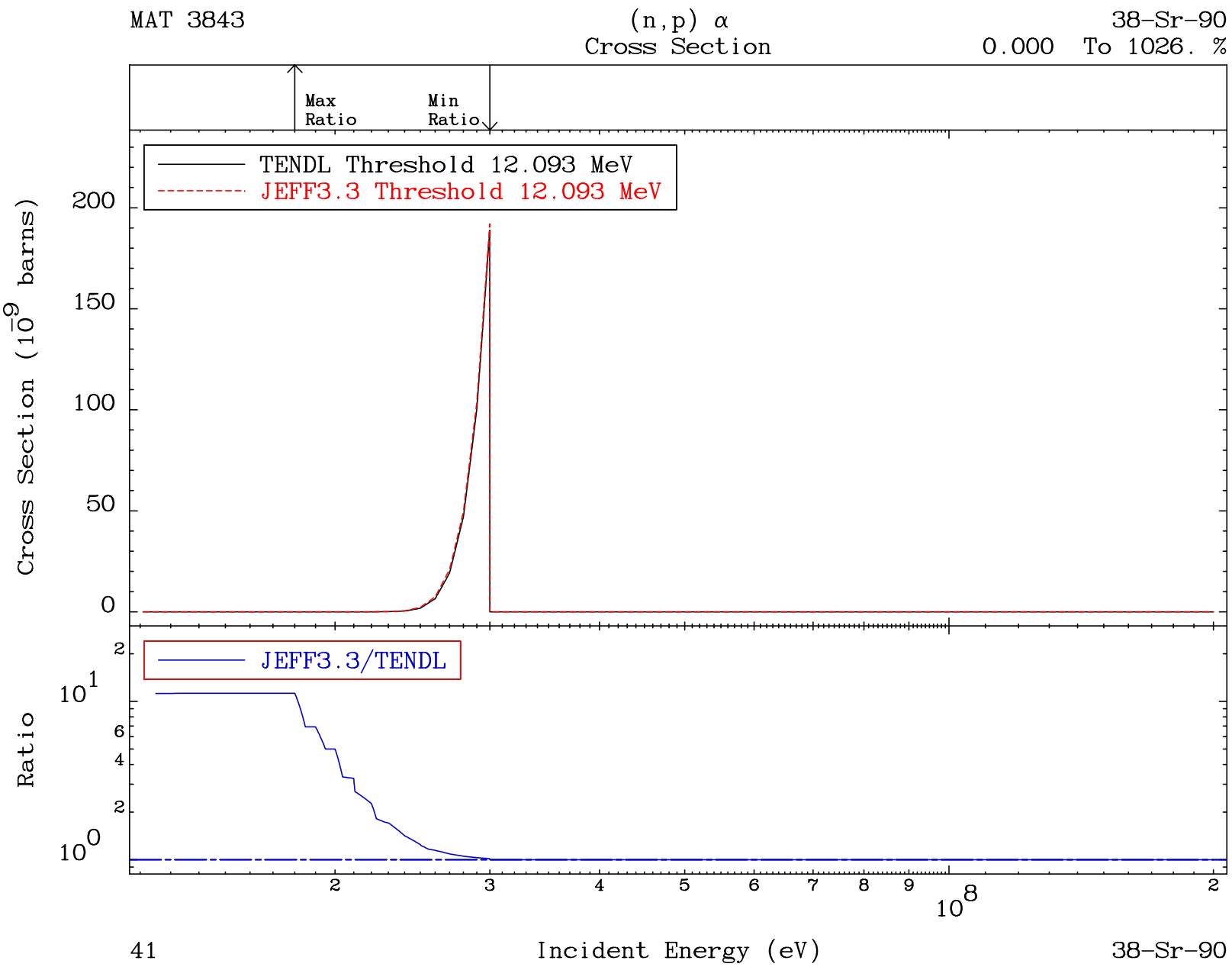

MAT 3843
(n,t)
Cross Section
38-Sr-90
-4.291 To 0.038 %
Min Ratio
Max Ratio
TENDL Threshold 10.332 MeV
JEFF3.3 Threshold 10.332 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
36
38-Sr-90

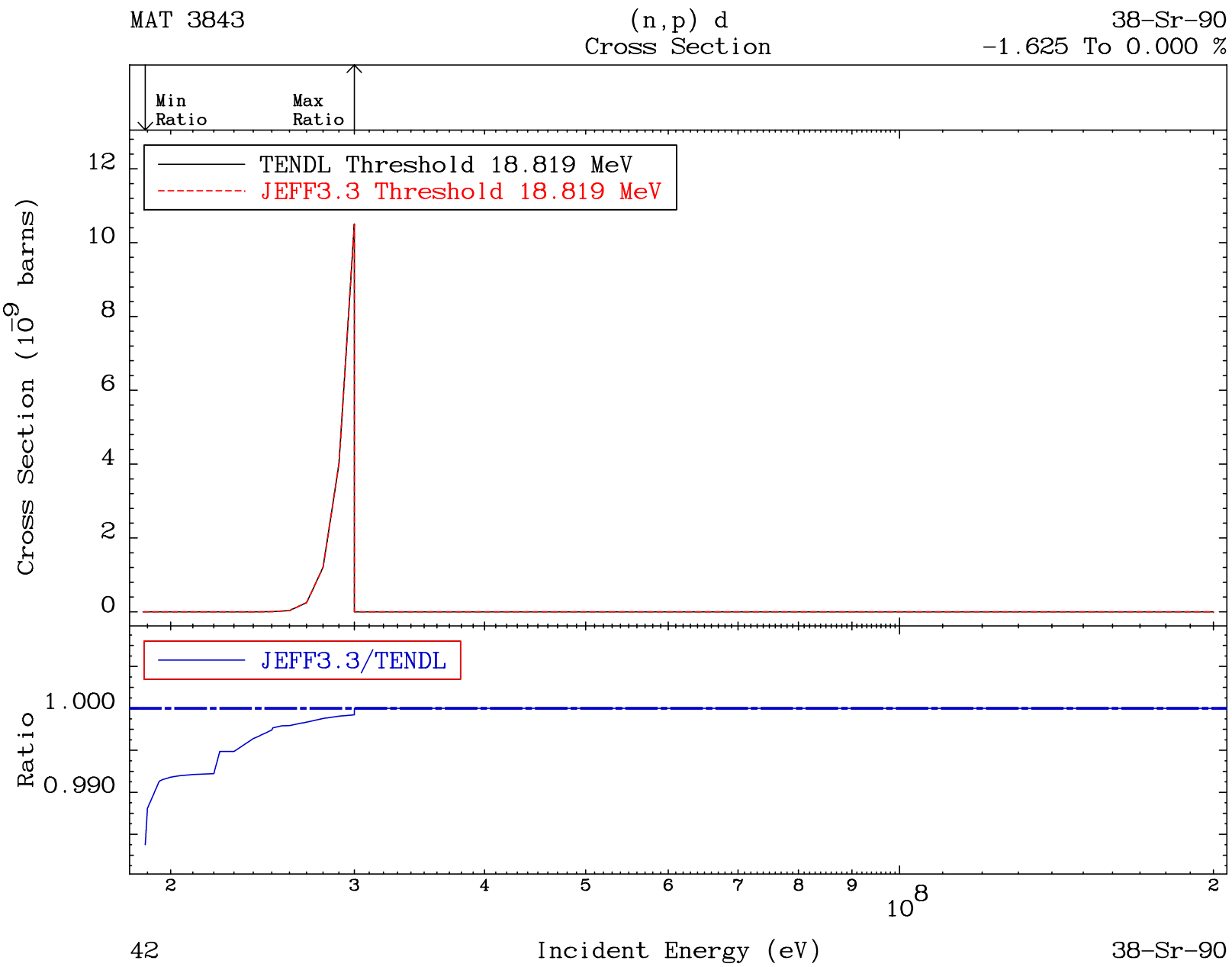

MAT 3843
(n,He-3)
Cross Section
38-Sr-90
-0.897 To 0.006 %
Min Ratio
Max Ratio
TENDL Threshold 13.264 MeV
JEFF3.3 Threshold 13.264 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
38-Sr-90

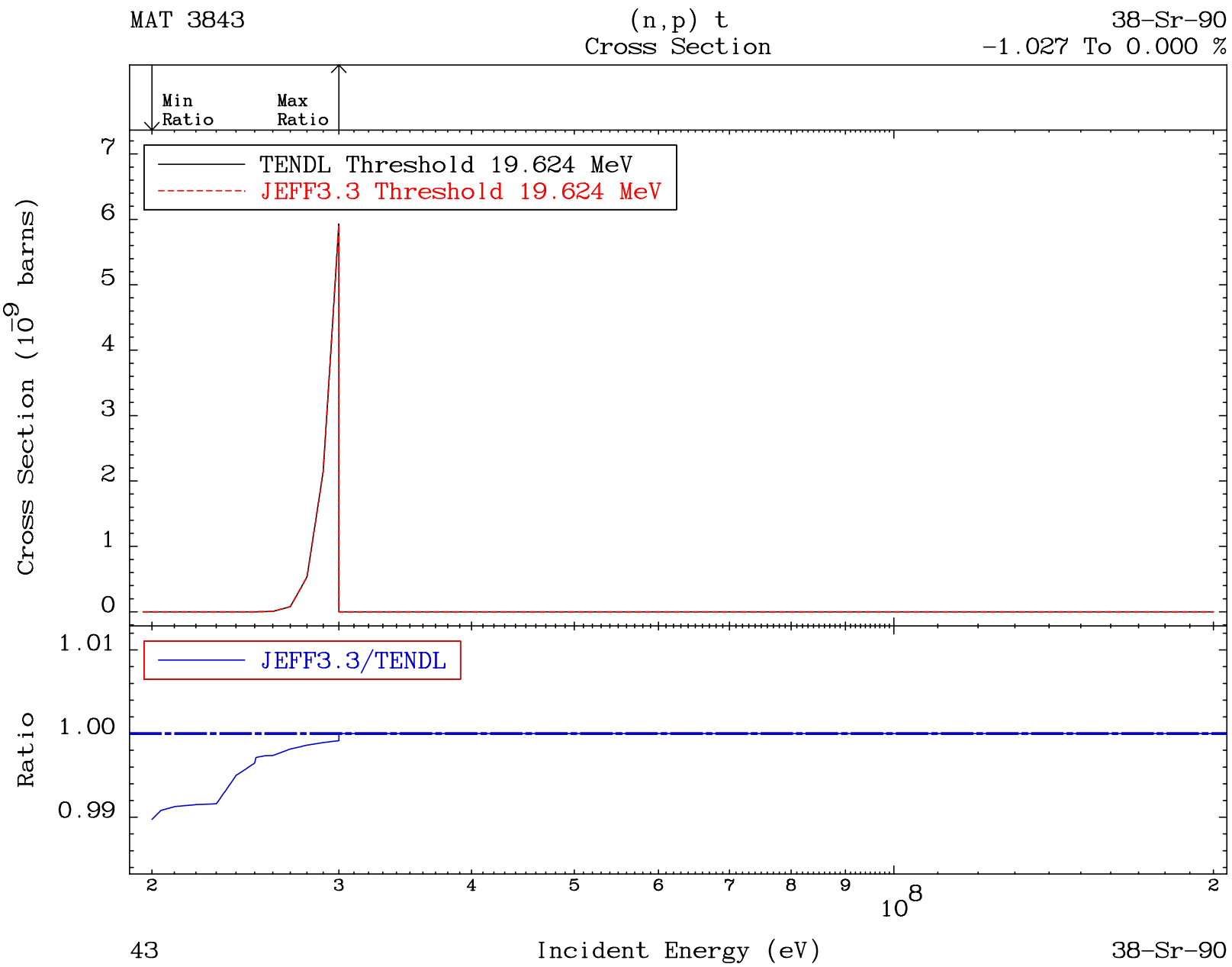

MAT 3843
(n,α)
Cross Section
38-Sr-90
-5.825 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.706 keV
JEFF3.3 Threshold 206.88 keV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^3
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
38
Incident Energy (eV)
38-Sr-90

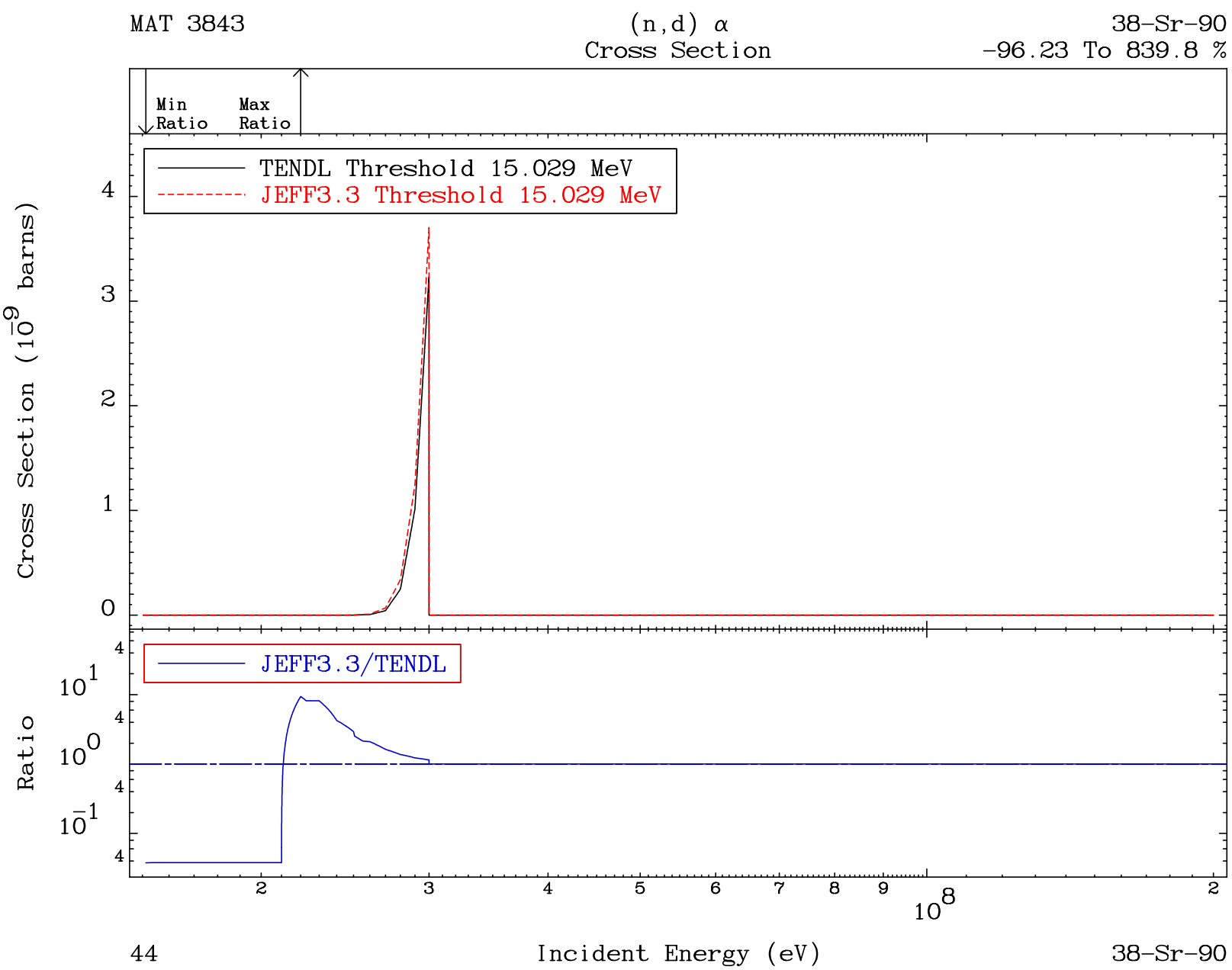

MAT 3843
(n,2α)
Cross Section
38-Sr-90
0.000 To 4597. %
Max Ratio
Min Ratio
TENDL Threshold 7.4690 MeV
JEFF3.3 Threshold 7.4697 MeV
Cross Section (10^-9 barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^2
4
10^1
4
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
38-Sr-90

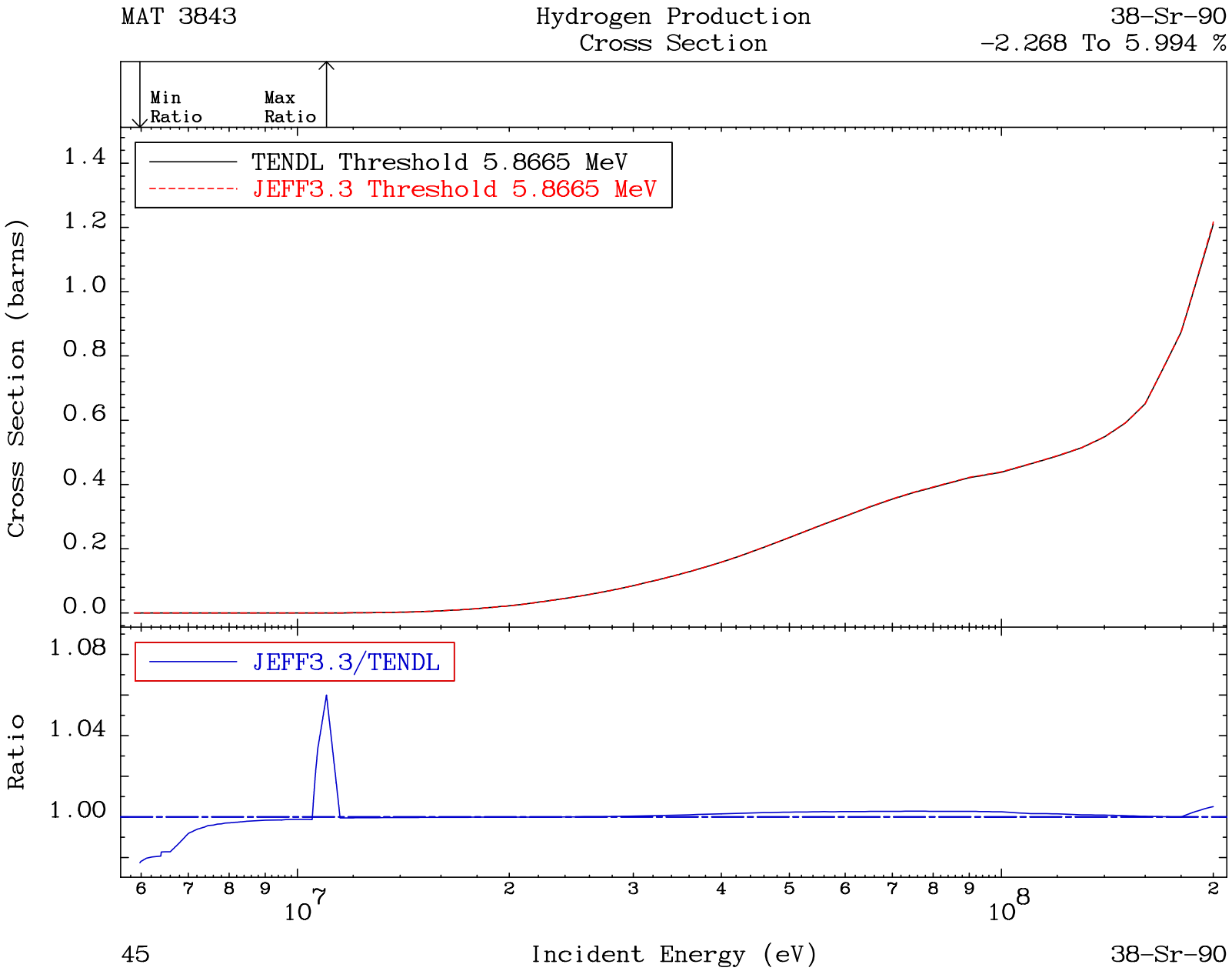

MAT 3843
(n,2p)
Cross Section
38-Sr-90
-0.793 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.098 MeV
JEFF3.3 Threshold 16.098 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
40
Incident Energy (eV)
38-Sr-90

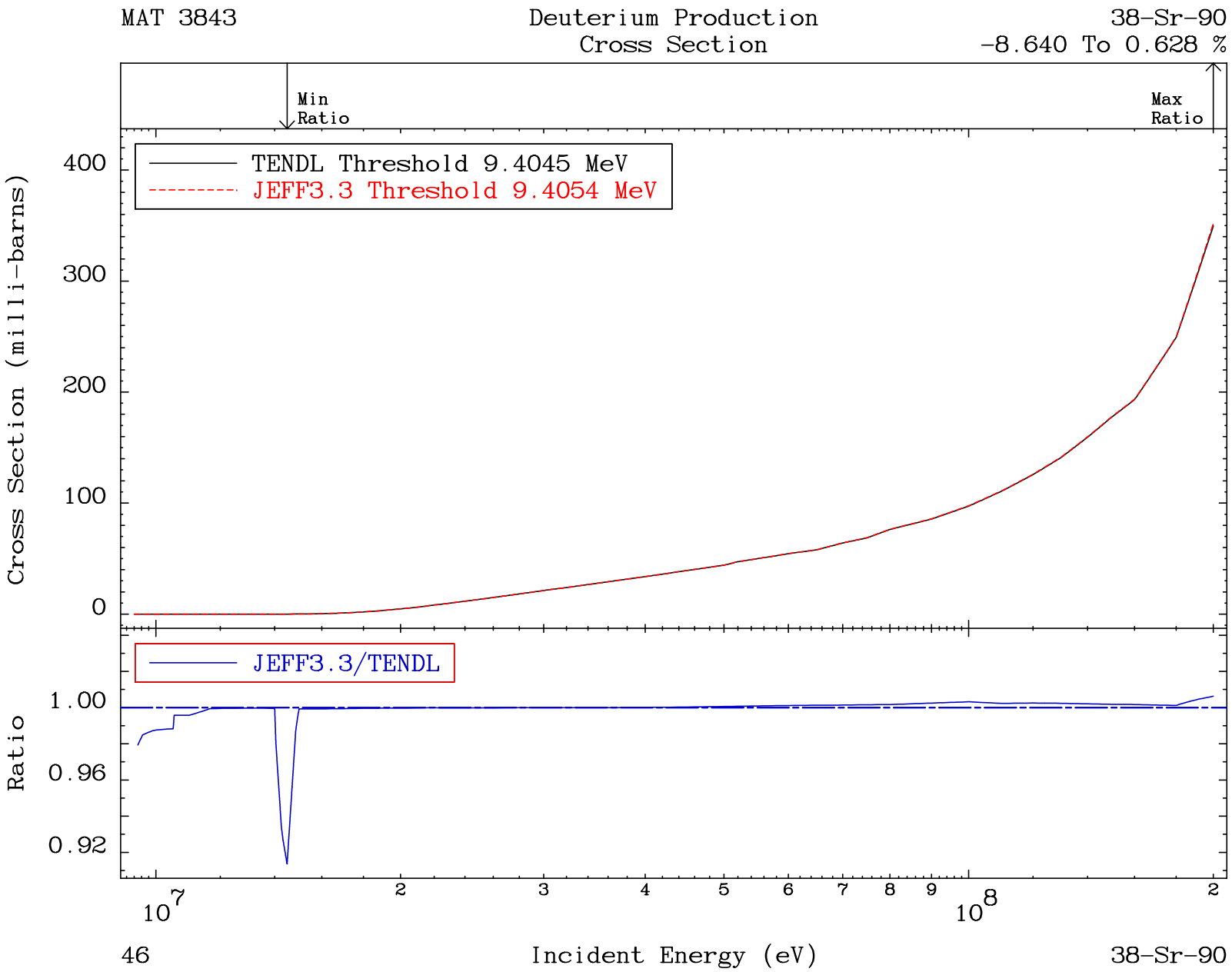

MAT 3843
(n,p) α
Cross Section
38-Sr-90
0.000 To 1026. %
Max Ratio
Min Ratio
TENDL Threshold 12.093 MeV
JEFF3.3 Threshold 12.093 MeV
Cross Section (10^-9 barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
38-Sr-90

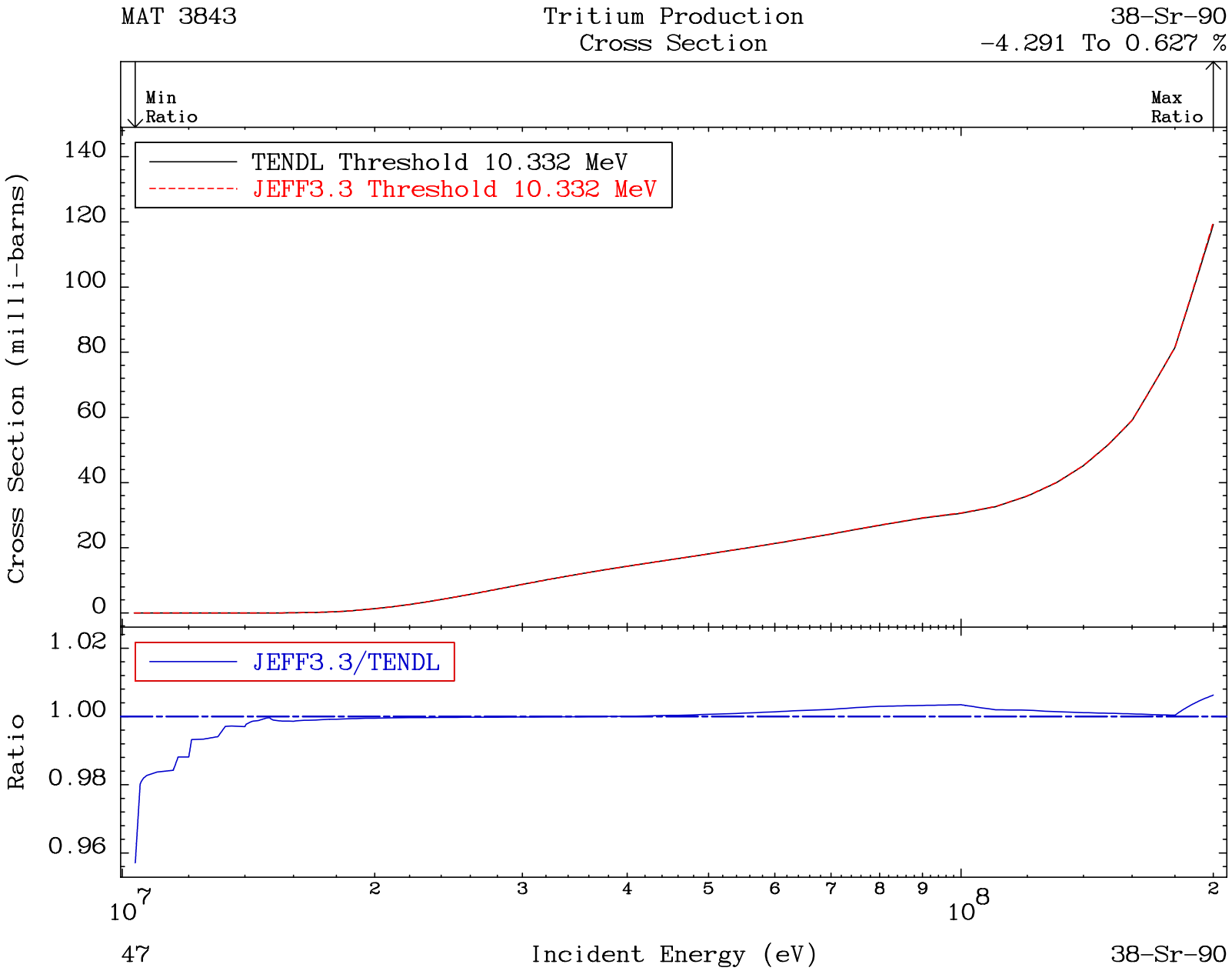

MAT 3843
(n,p) d
Cross Section
38-Sr-90
-1.625 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.819 MeV
JEFF3.3 Threshold 18.819 MeV
Cross Section (10^{-9} barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.000
0.990
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
38-Sr-90

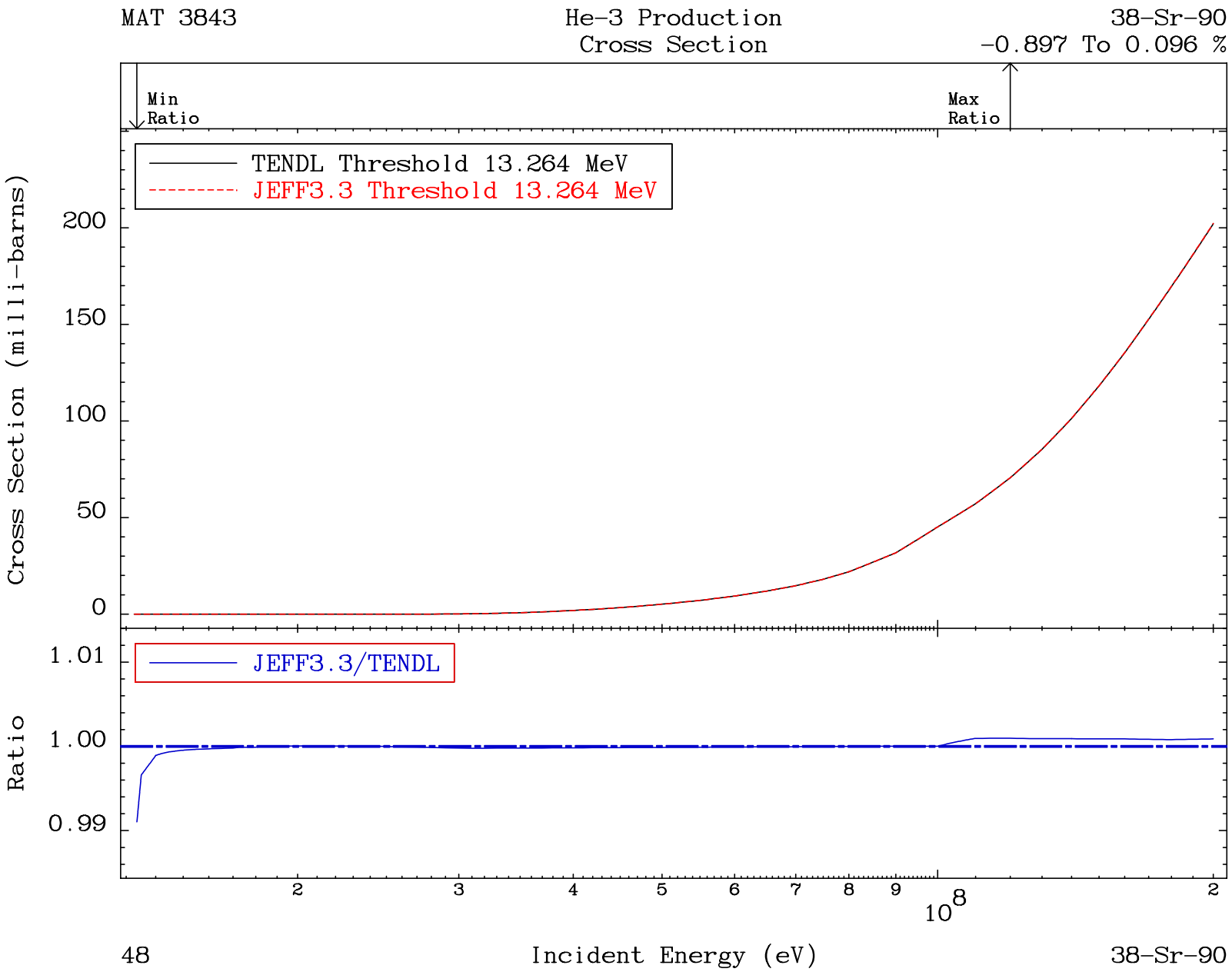

MAT 3843
(n,p) t
Cross Section
38-Sr-90
-1.027 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 19.624 MeV
JEFF3.3 Threshold 19.624 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
38-Sr-90

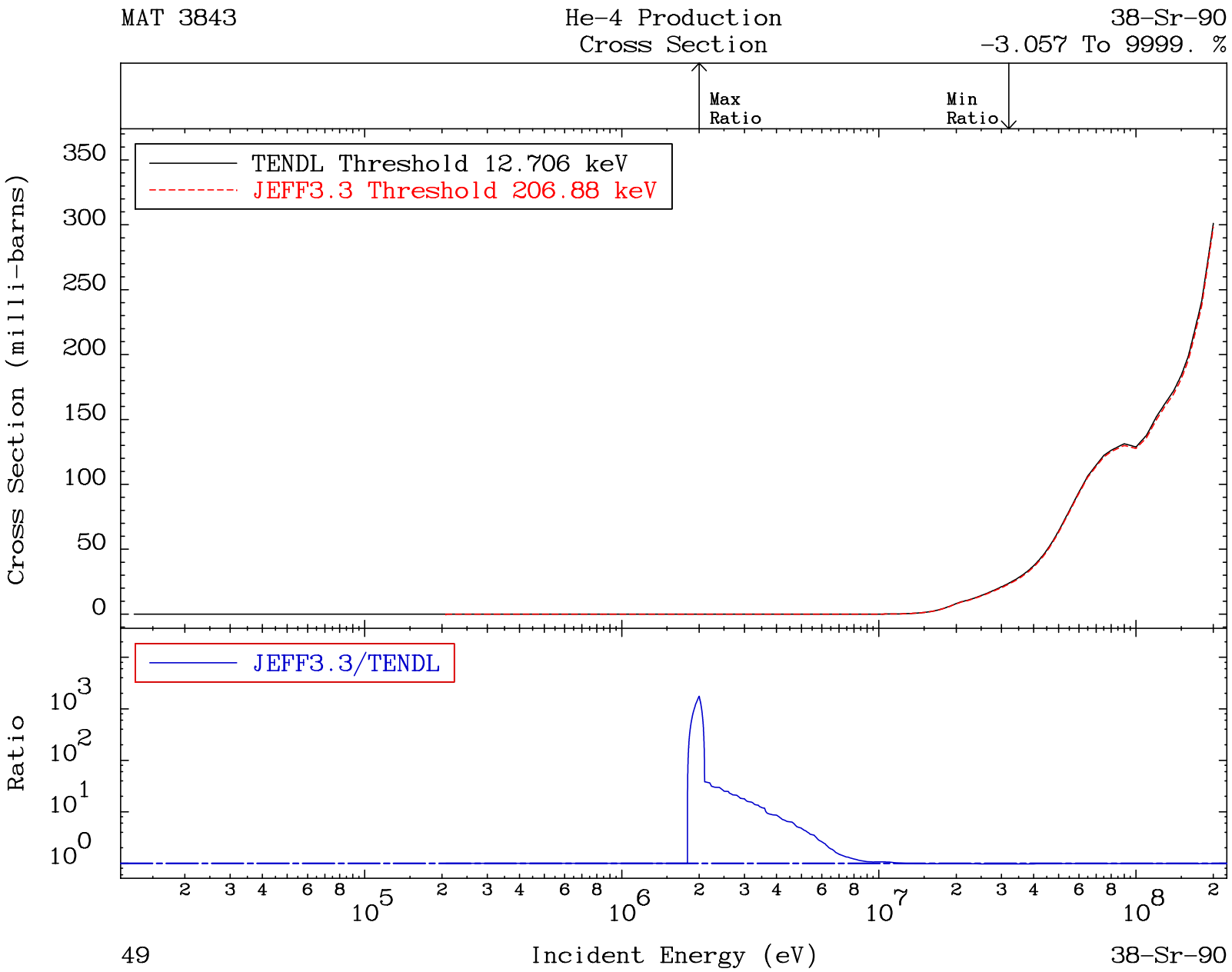

MAT 3843
(n,d) α
Cross Section
38-Sr-90
-96.23 To 839.8 %
Min Ratio
Max Ratio
TENDL Threshold 15.029 MeV
JEFF3.3 Threshold 15.029 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
44
38-Sr-90

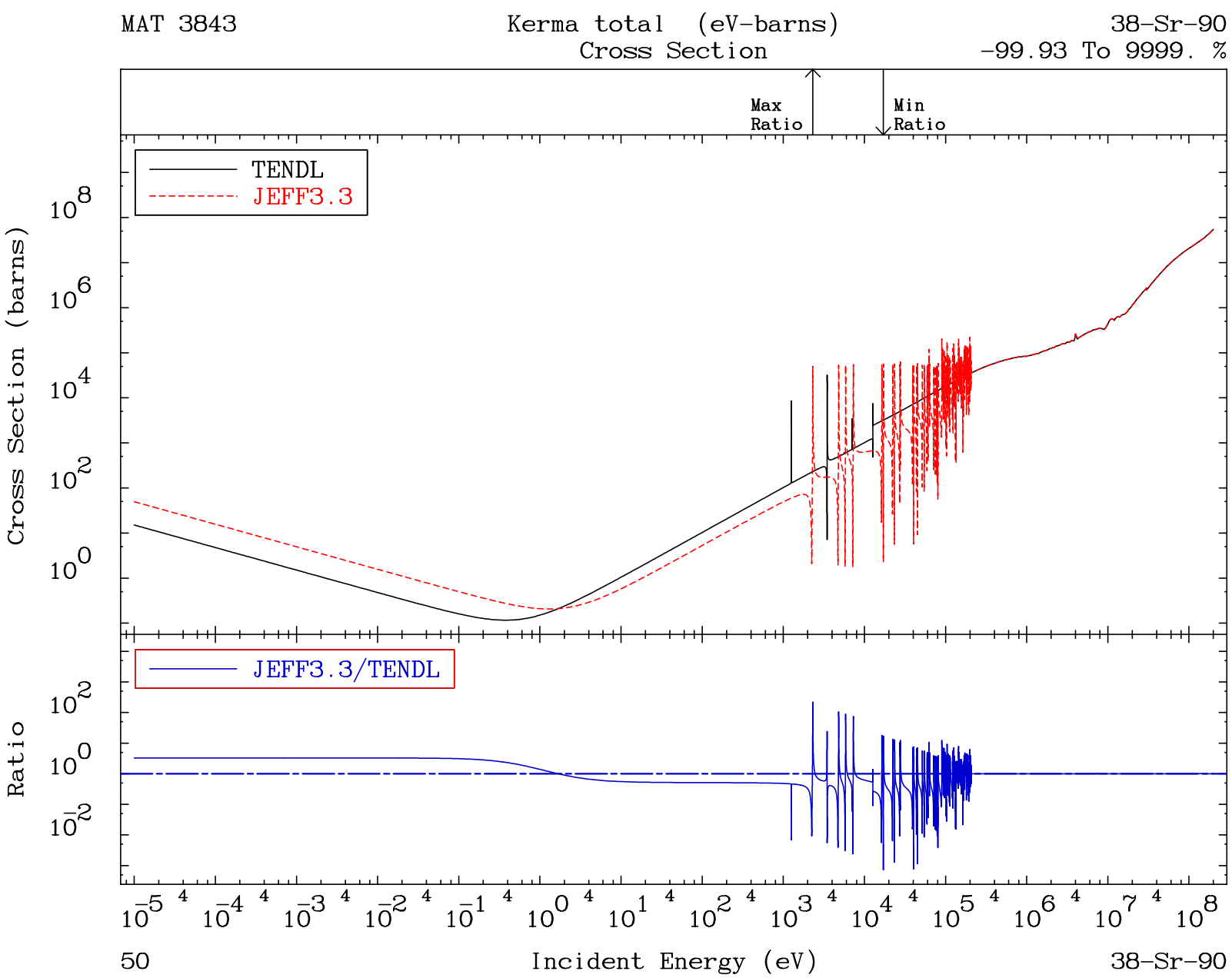

MAT 3843
Hydrogen Production
Cross Section
38-Sr-90
-2.268 To 5.994 %
Min Ratio
Max Ratio
TENDL Threshold 5.8665 MeV
JEFF3.3 Threshold 5.8665 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.08
1.04
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
38-Sr-90

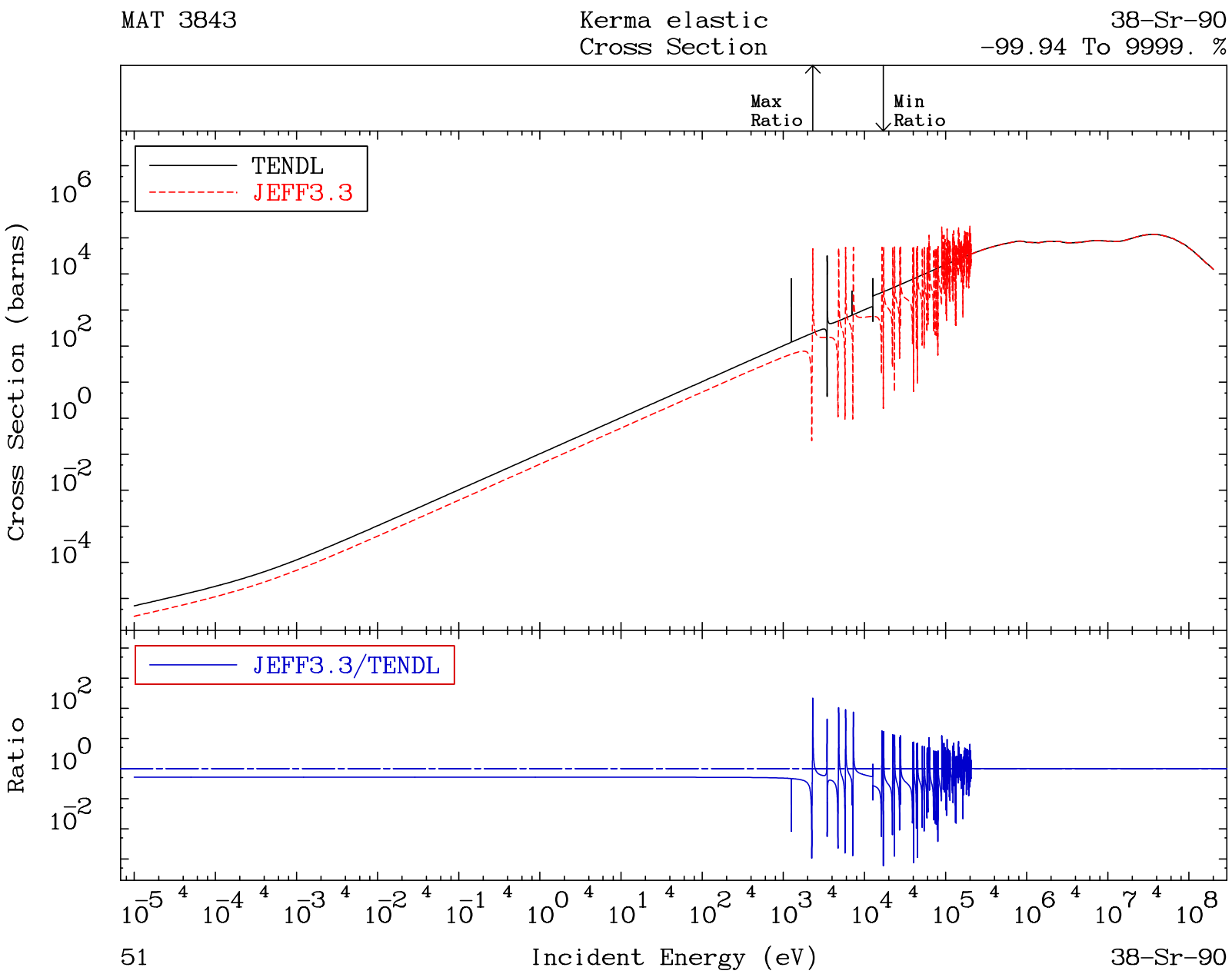

MAT 3843
Deuterium Production
Cross Section
38-Sr-90
-8.640 To 0.628 %
Min
Ratio
Max
Ratio
TENDL Threshold 9.4045 MeV
JEFF3.3 Threshold 9.4054 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.00
0.96
0.92
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
38-Sr-90

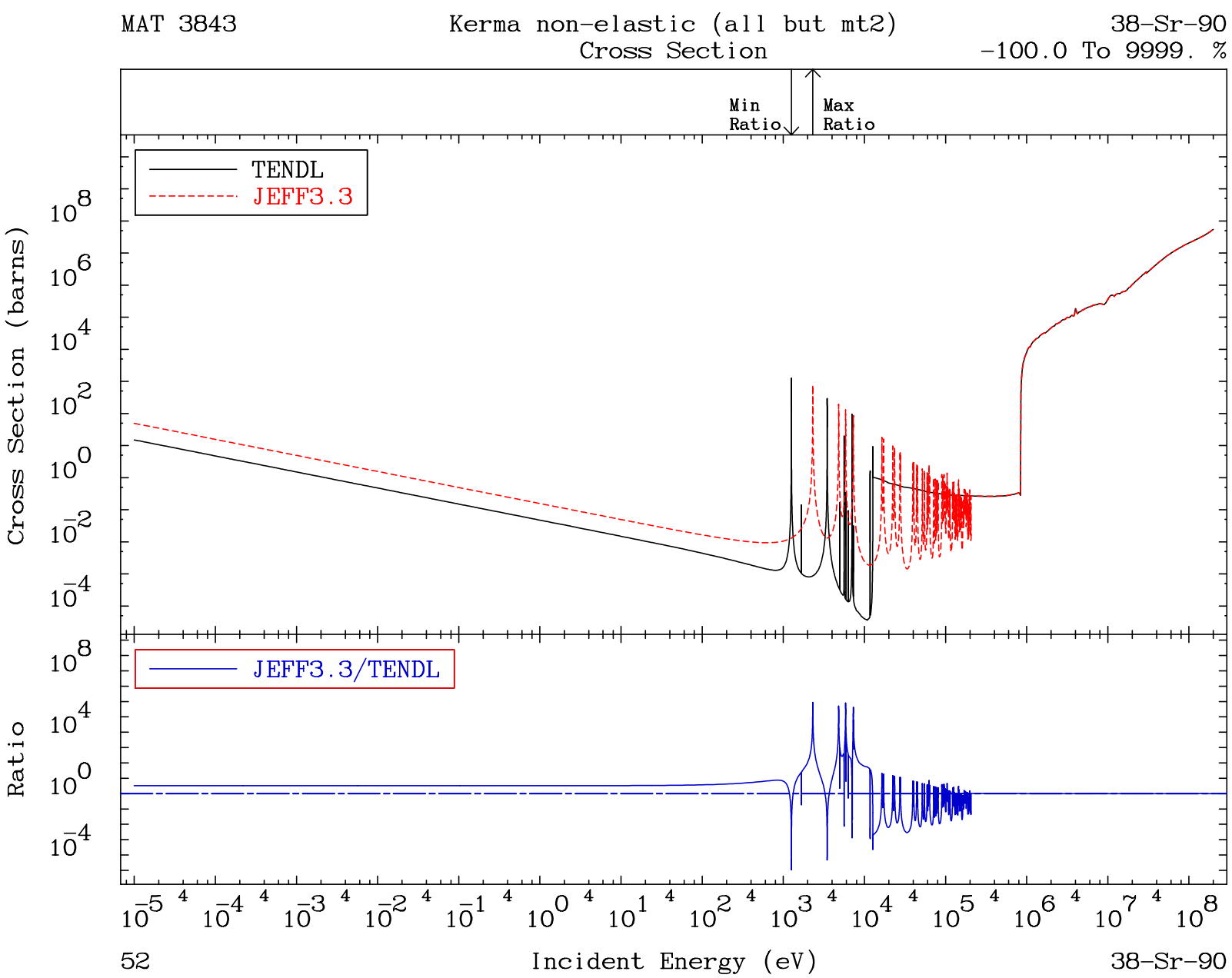

MAT 3843
Tritium Production
Cross Section
38-Sr-90
-4.291 To 0.627 %
Min Ratio
Max Ratio
TENDL Threshold 10.332 MeV
JEFF3.3 Threshold 10.332 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.00
0.98
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
38-Sr-90

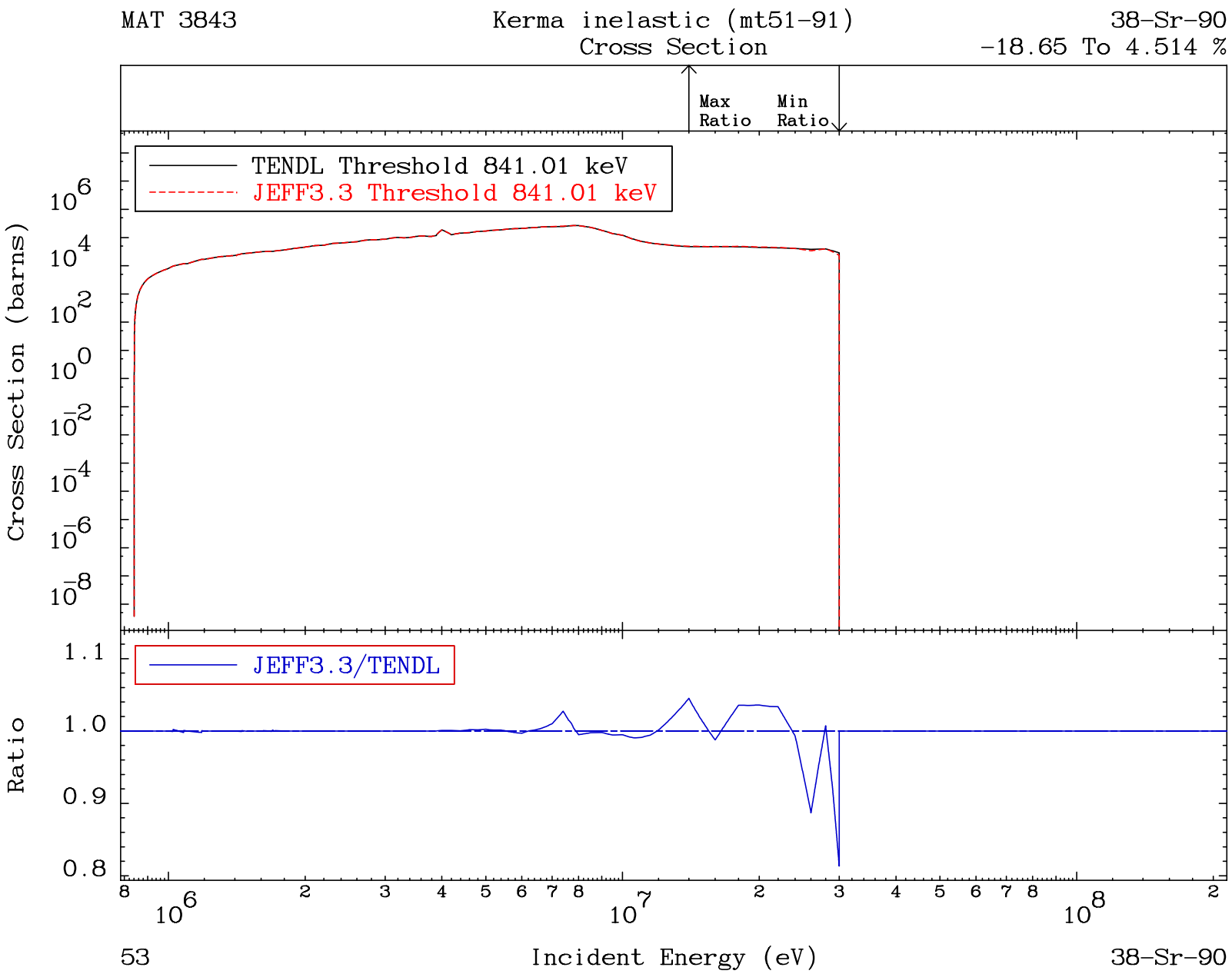

MAT 3843
He-3 Production
Cross Section
38-Sr-90
-0.897 To 0.096 %
Min
Ratio
Max
Ratio
TENDL Threshold 13.264 MeV
JEFF3.3 Threshold 13.264 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
38-Sr-90

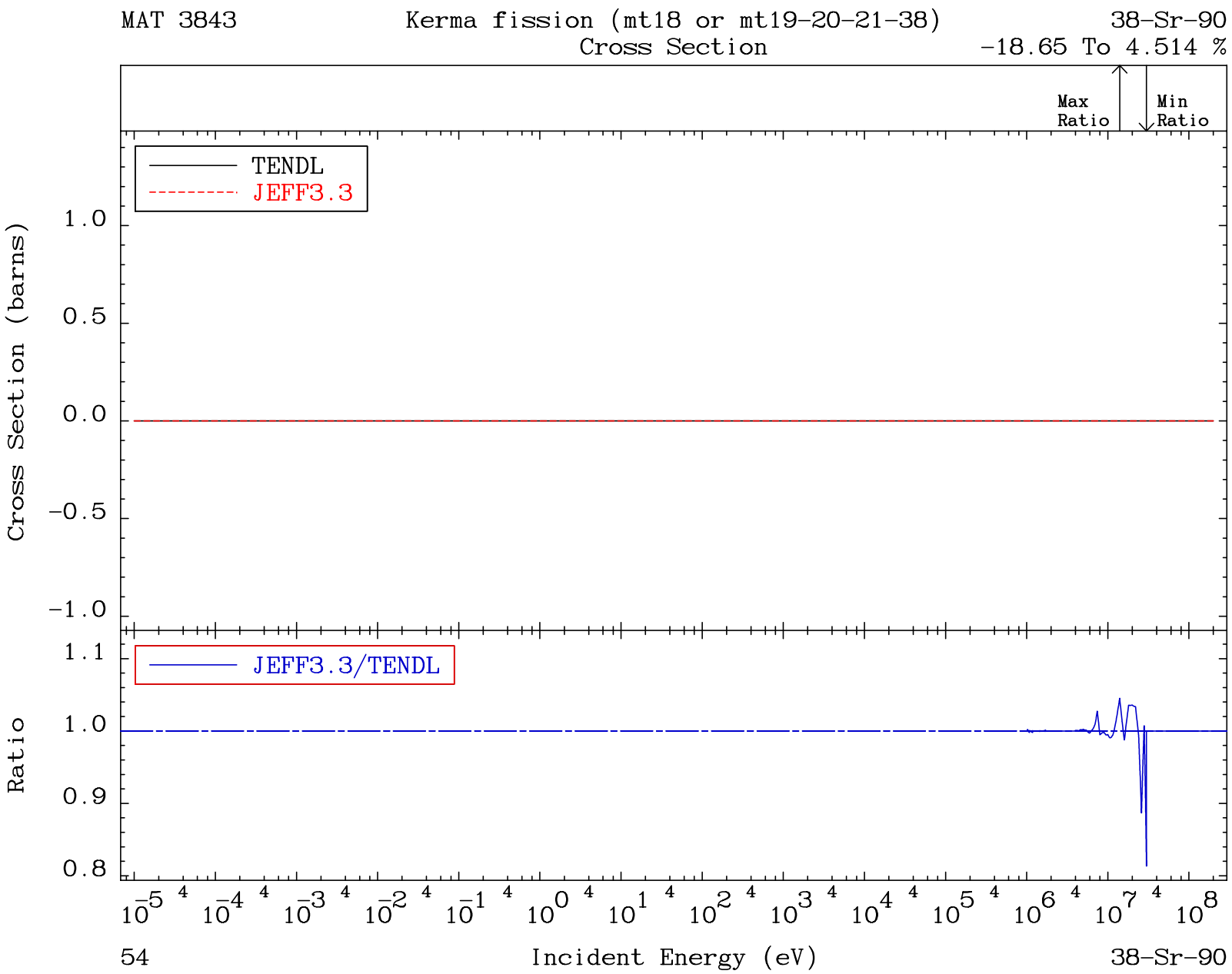

MAT 3843
He-4 Production
Cross Section
38-Sr-90
-3.057 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 12.706 keV
JEFF3.3 Threshold 206.88 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2 3 4 6 8
10^5
2 3 4 6 8
10^6
2 3 4 6 8
10^7
2 3 4 6 8
10^8
2
49
Incident Energy (eV)
38-Sr-90

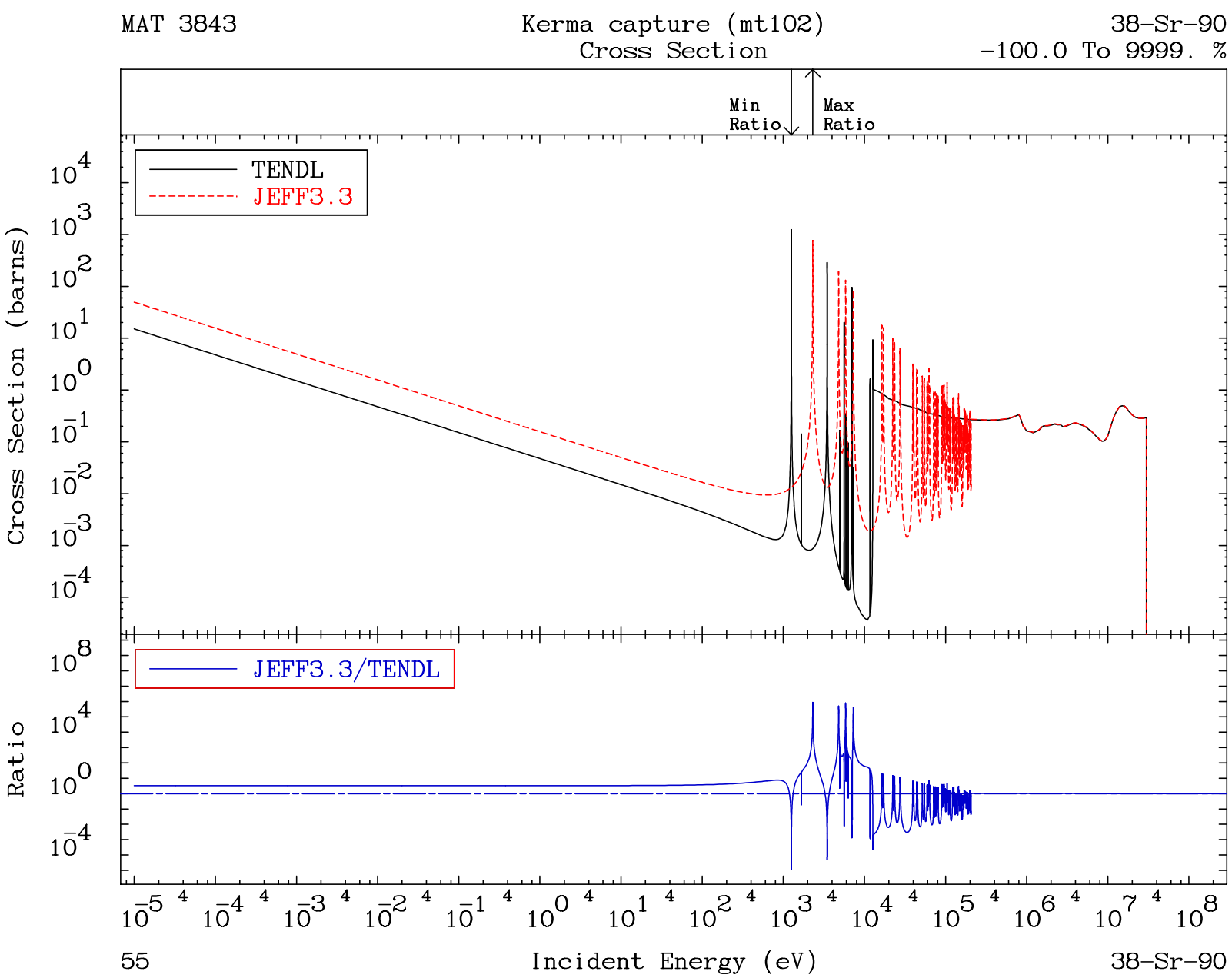

MAT 3843
Kerma total (eV-barns)
Cross Section
38-Sr-90
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
38-Sr-90

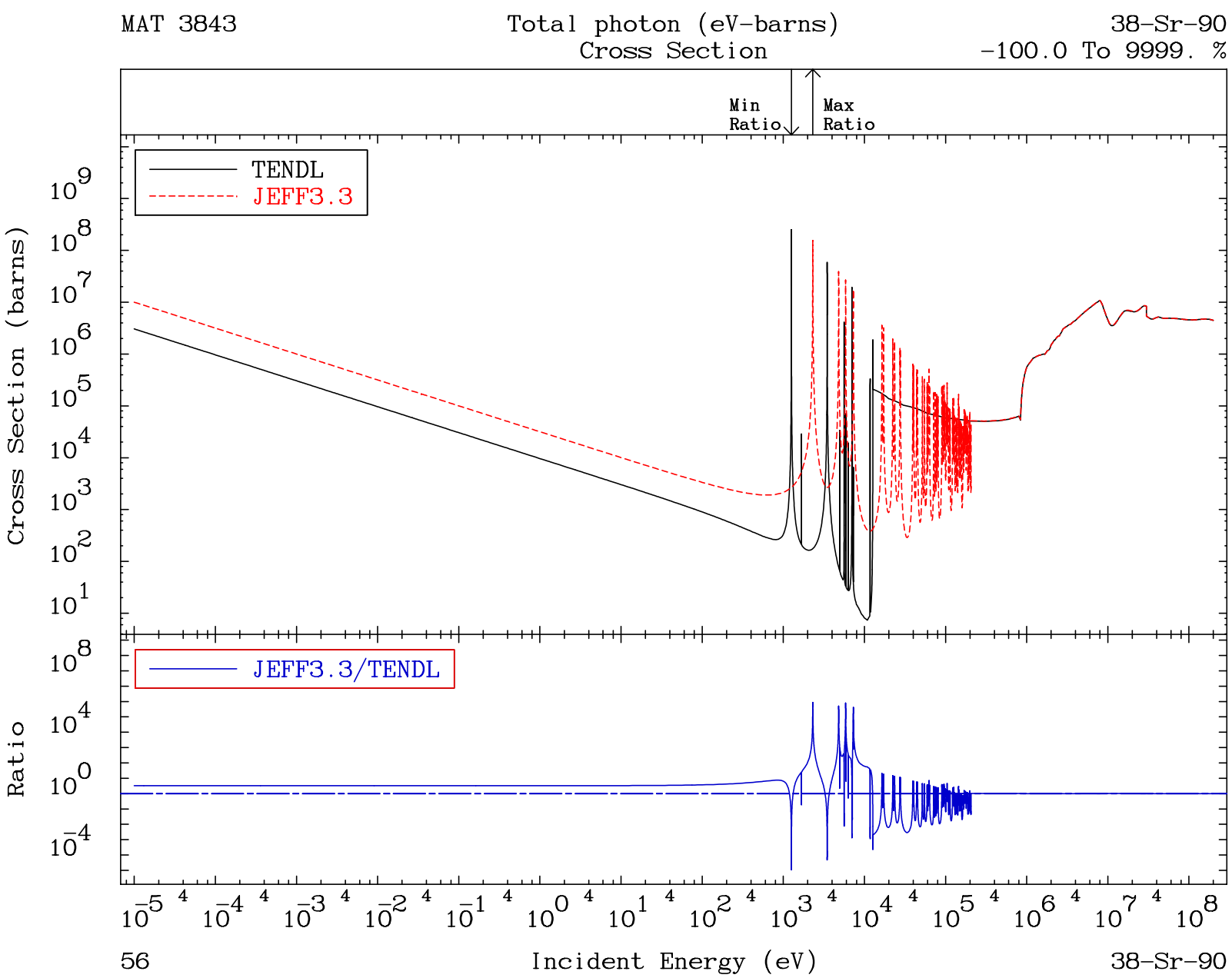

MAT 3843
Kerma elastic
Cross Section
38-Sr-90
-99.94 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
38-Sr-90

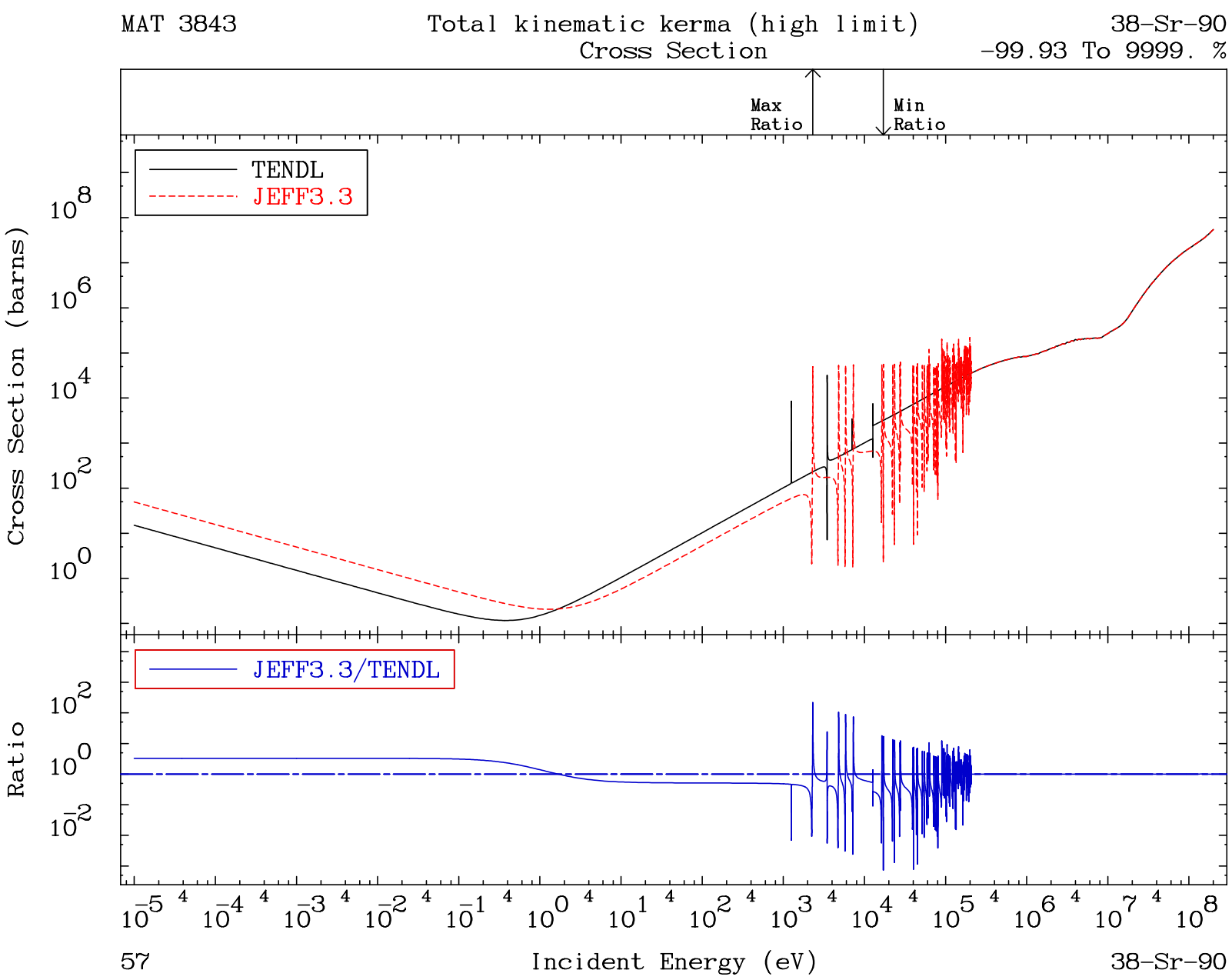

MAT 3843
Kerma non-elastic (all but mt2)
Cross Section
38-Sr-90
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
52
38-Sr-90

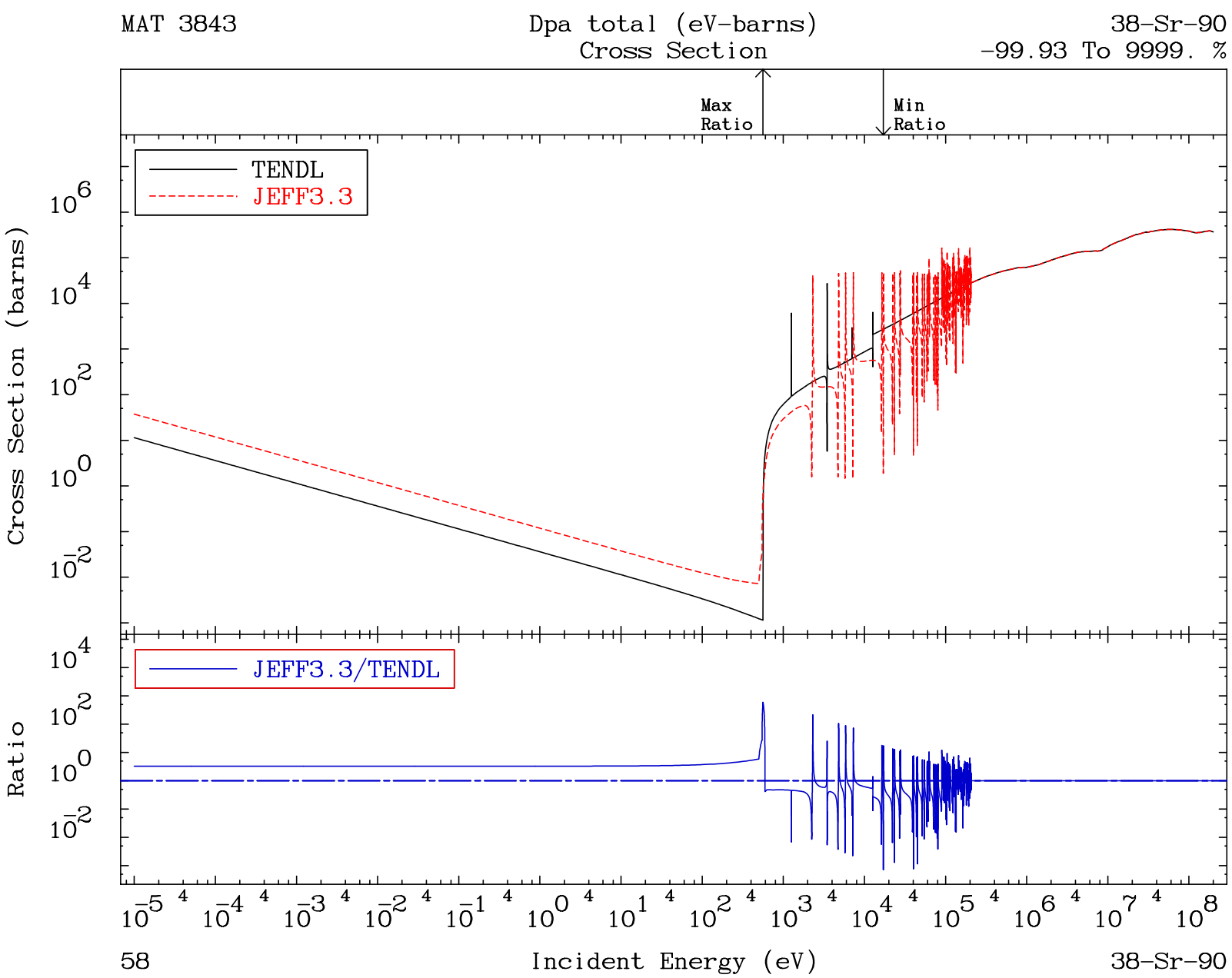

MAT 3843
Kerma inelastic (mt51-91)
Cross Section
38-Sr-90
-18.65 To 4.514 %
Max Ratio
Min Ratio
TENDL Threshold 841.01 keV
JEFF3.3 Threshold 841.01 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
53
38-Sr-90

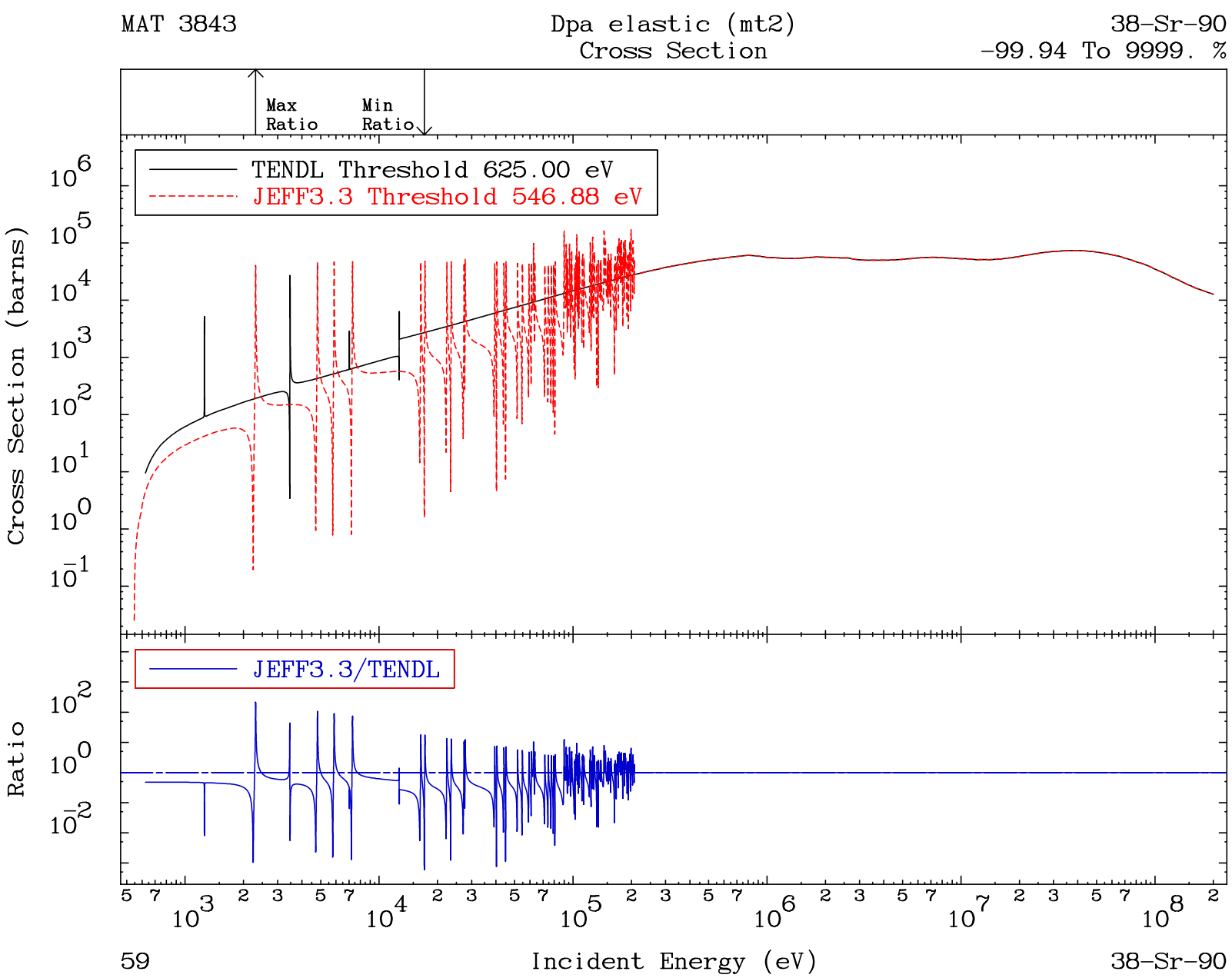

MAT 3843
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
38-Sr-90
-18.65 To 4.514 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
54
Incident Energy (eV)
38-Sr-90

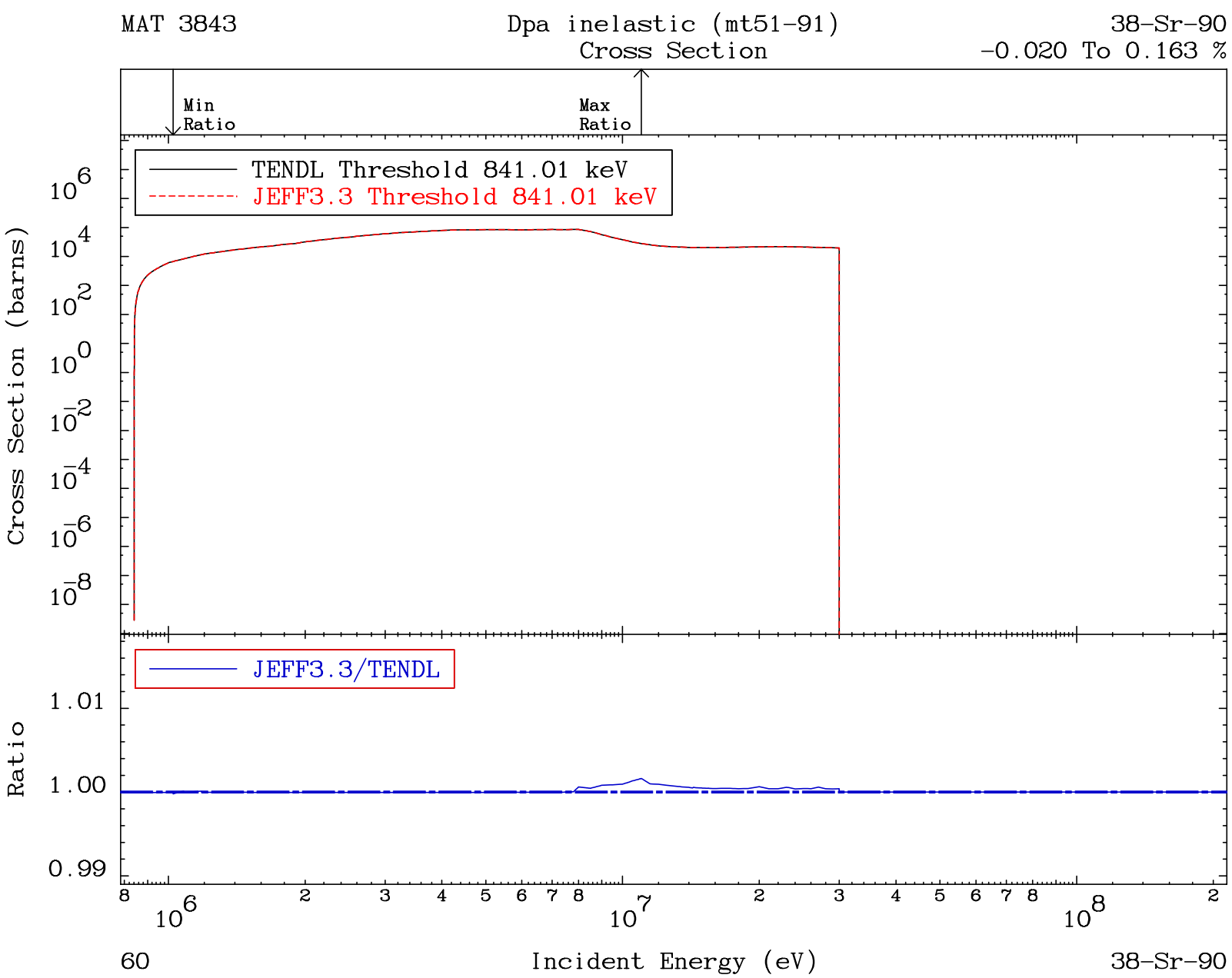

MAT 3843
Kerma capture (mt102)
Cross Section
38-Sr-90
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
55
38-Sr-90

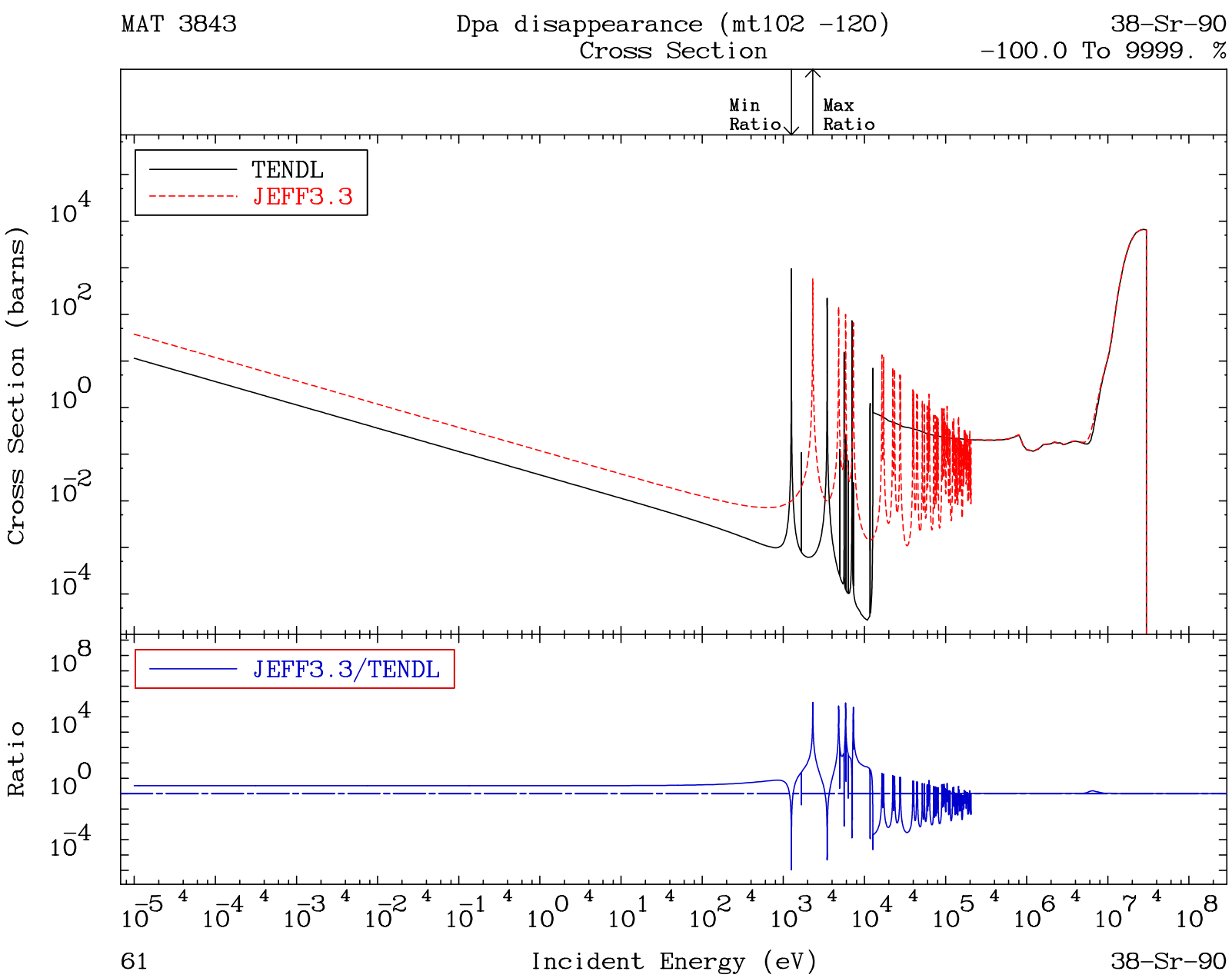

MAT 3843
Total photon (eV-barns)
Cross Section
38-Sr-90
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
56
Incident Energy (eV)
38-Sr-90

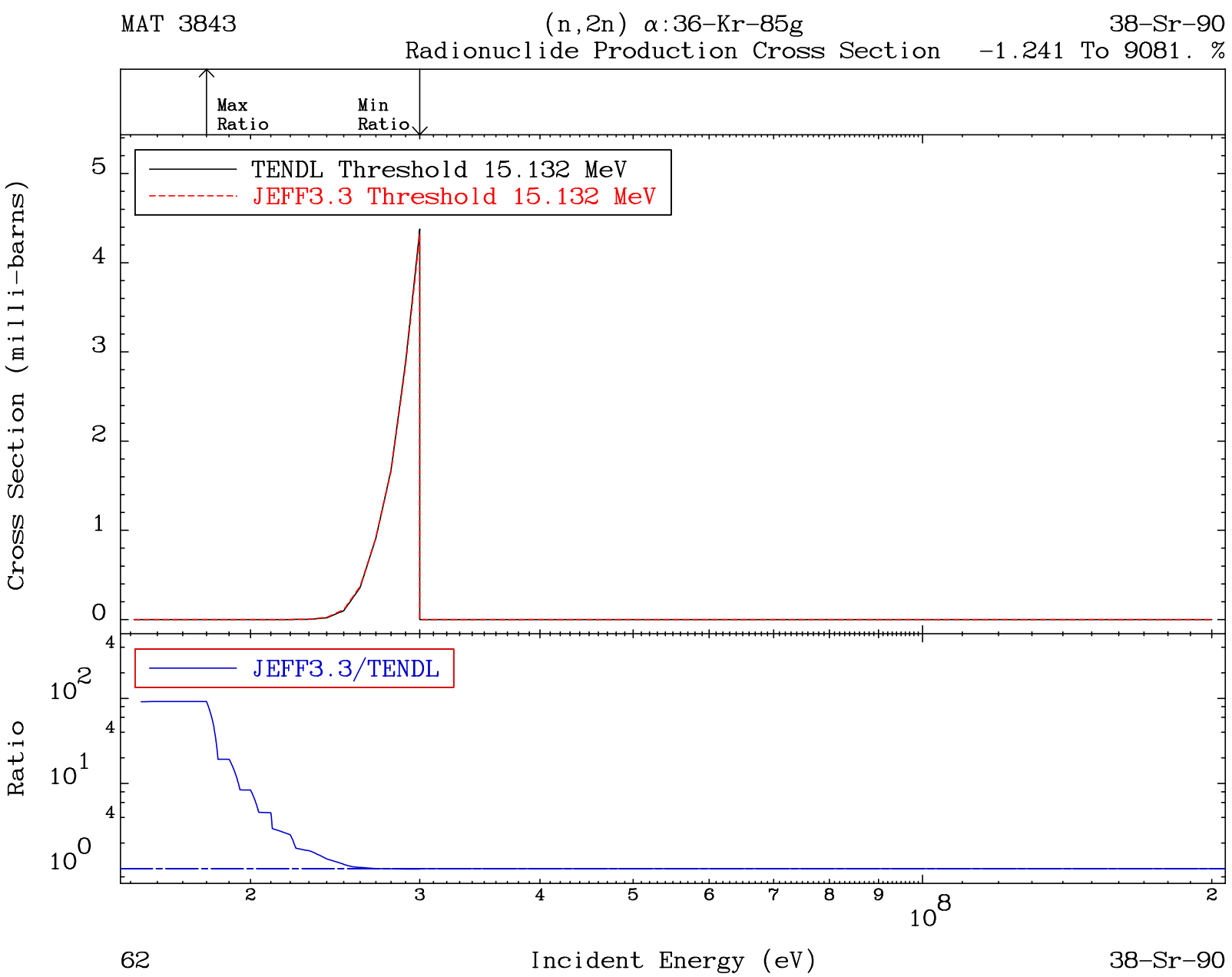

MAT 3843
Total kinematic kerma (high limit)
Cross Section
38-Sr-90
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
57
38-Sr-90

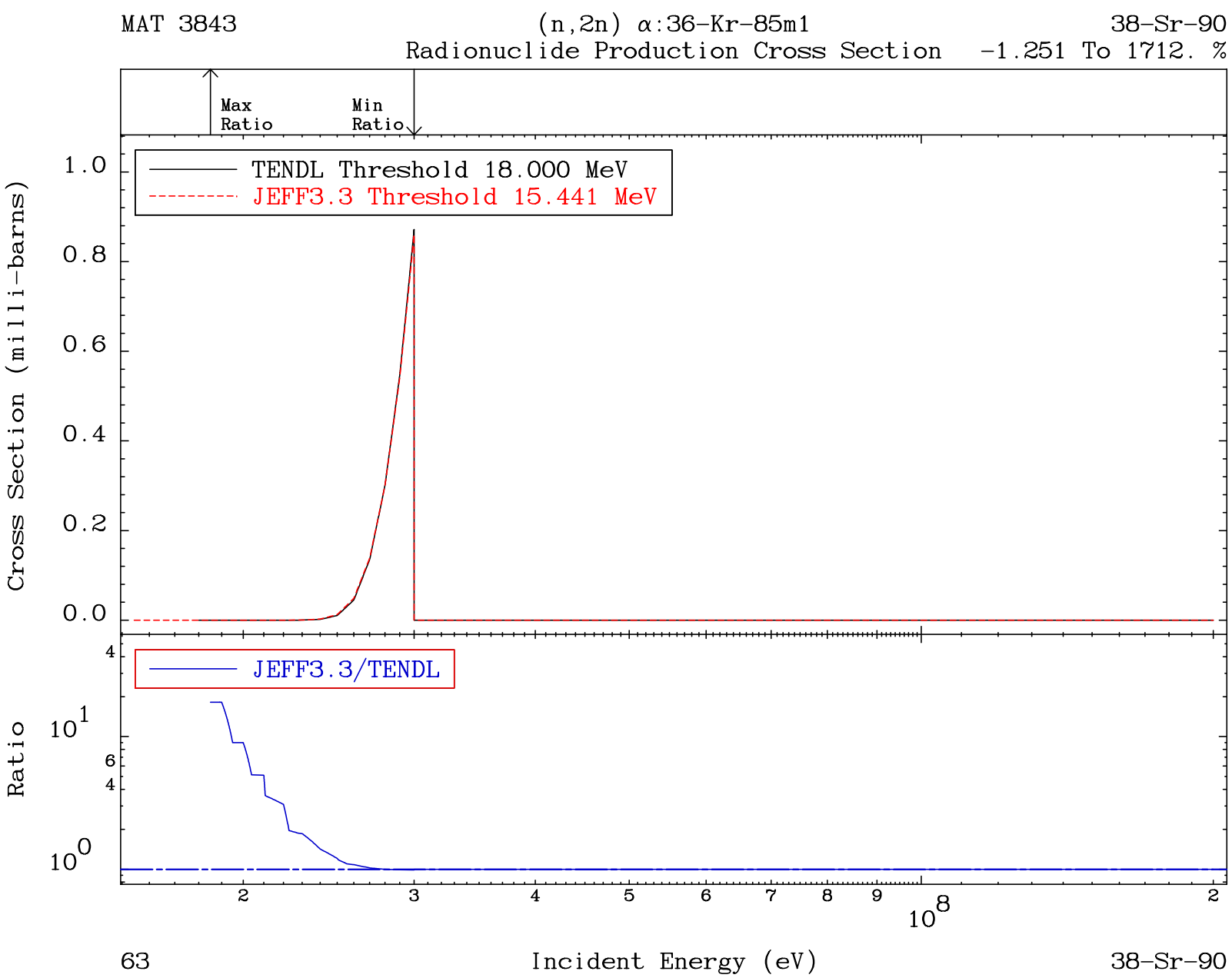

MAT 3843
Dpa total (eV-barns)
Cross Section
38-Sr-90
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
58
38-Sr-90

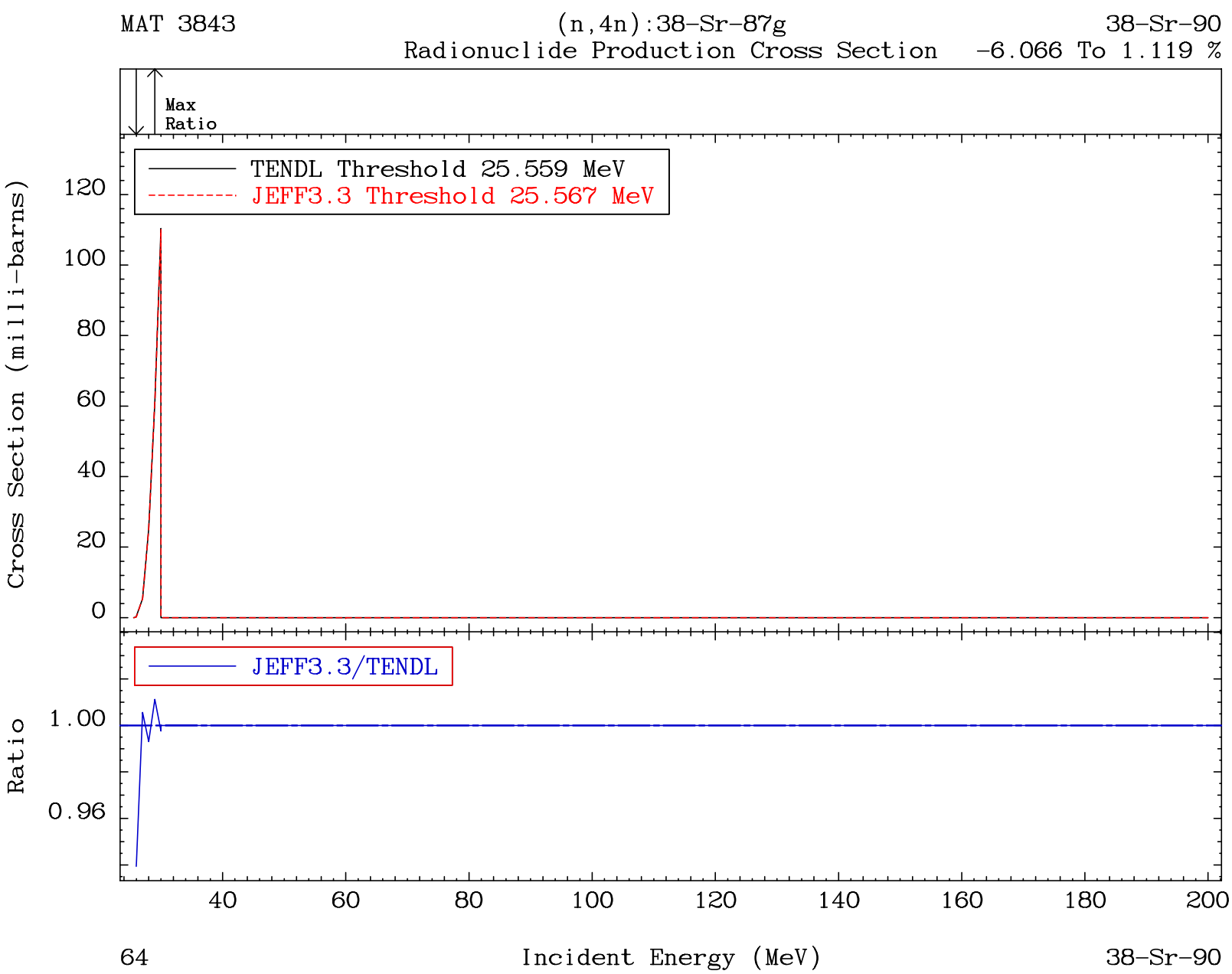

MAT 3843
Dpa elastic (mt2)
Cross Section
38-Sr-90
-99.94 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 625.00 eV
JEFF3.3 Threshold 546.88 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
59
Incident Energy (eV)
38-Sr-90

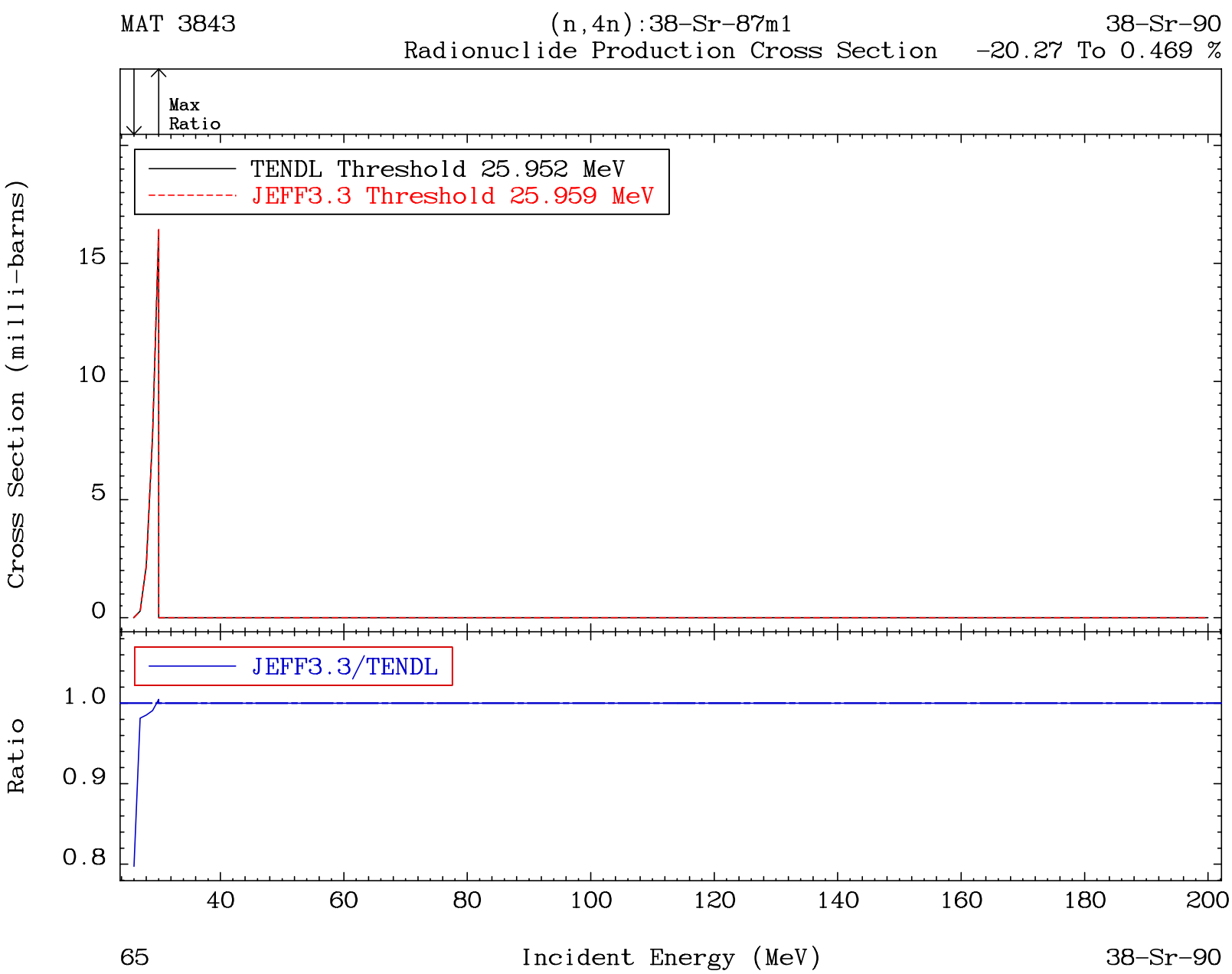

MAT 3843
Dpa inelastic (mt51-91)
Cross Section
38-Sr-90
-0.020 To 0.163 %
Min Ratio
Max Ratio
TENDL Threshold 841.01 keV
JEFF3.3 Threshold 841.01 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
60
38-Sr-90

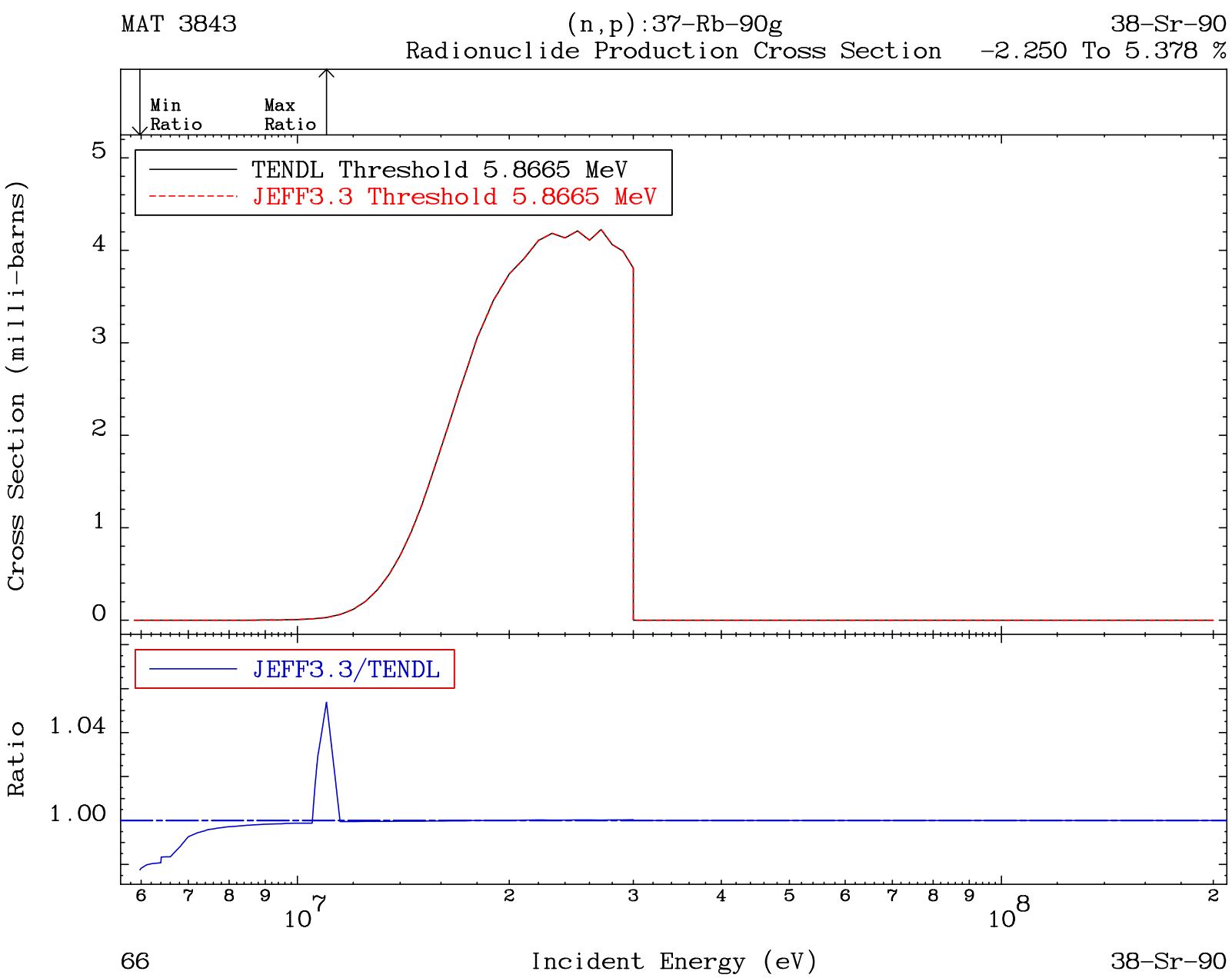

MAT 3843
Dpa disappearance (mt102 -120)
Cross Section
38-Sr-90
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
38-Sr-90

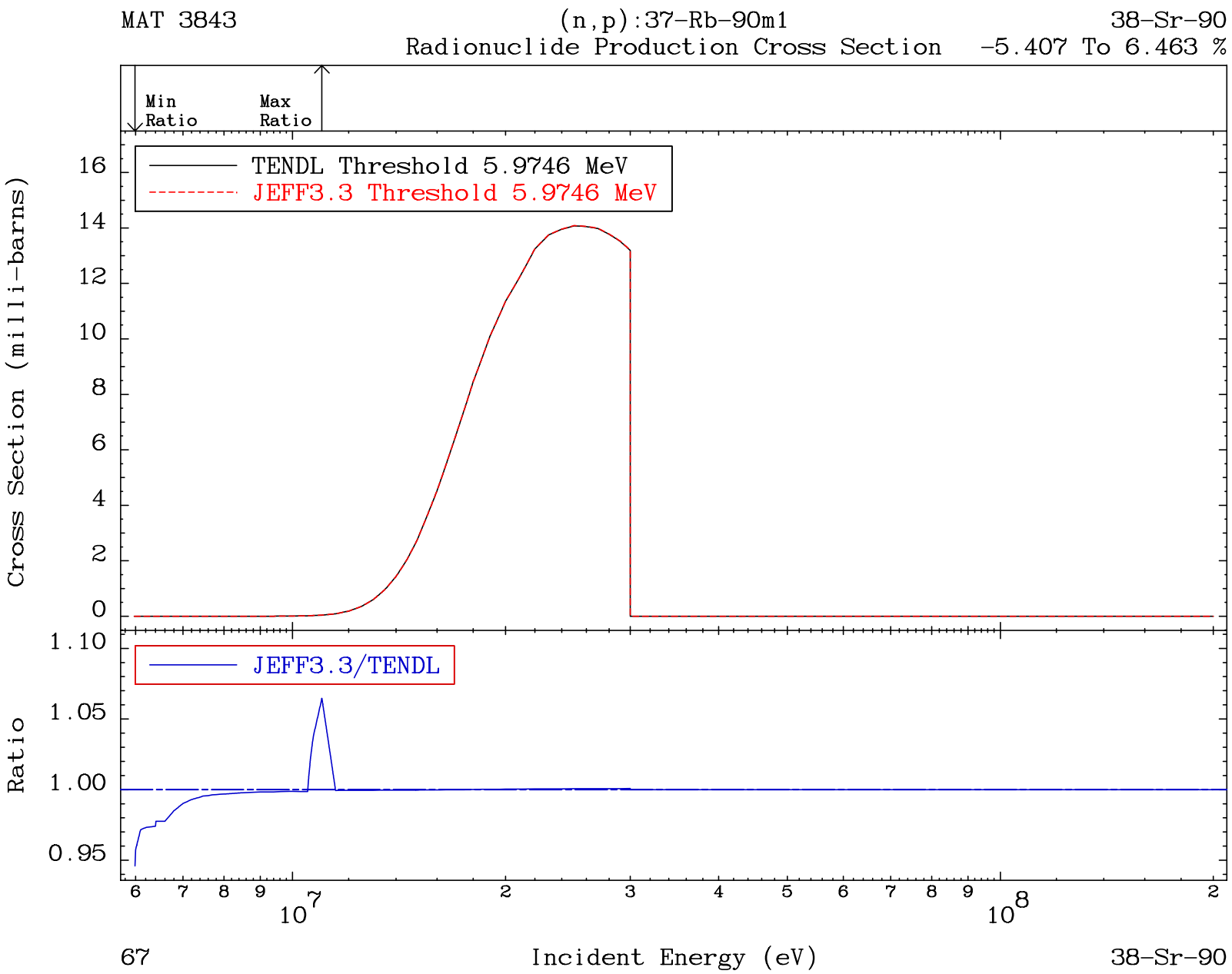

MAT 3843
(n,2n) α:36-Kr-85g
38-Sr-90
Radionuclide Production Cross Section -1.241 To 9081. %
Max Ratio
Min Ratio
TENDL Threshold 15.132 MeV
JEFF3.3 Threshold 15.132 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
38-Sr-90

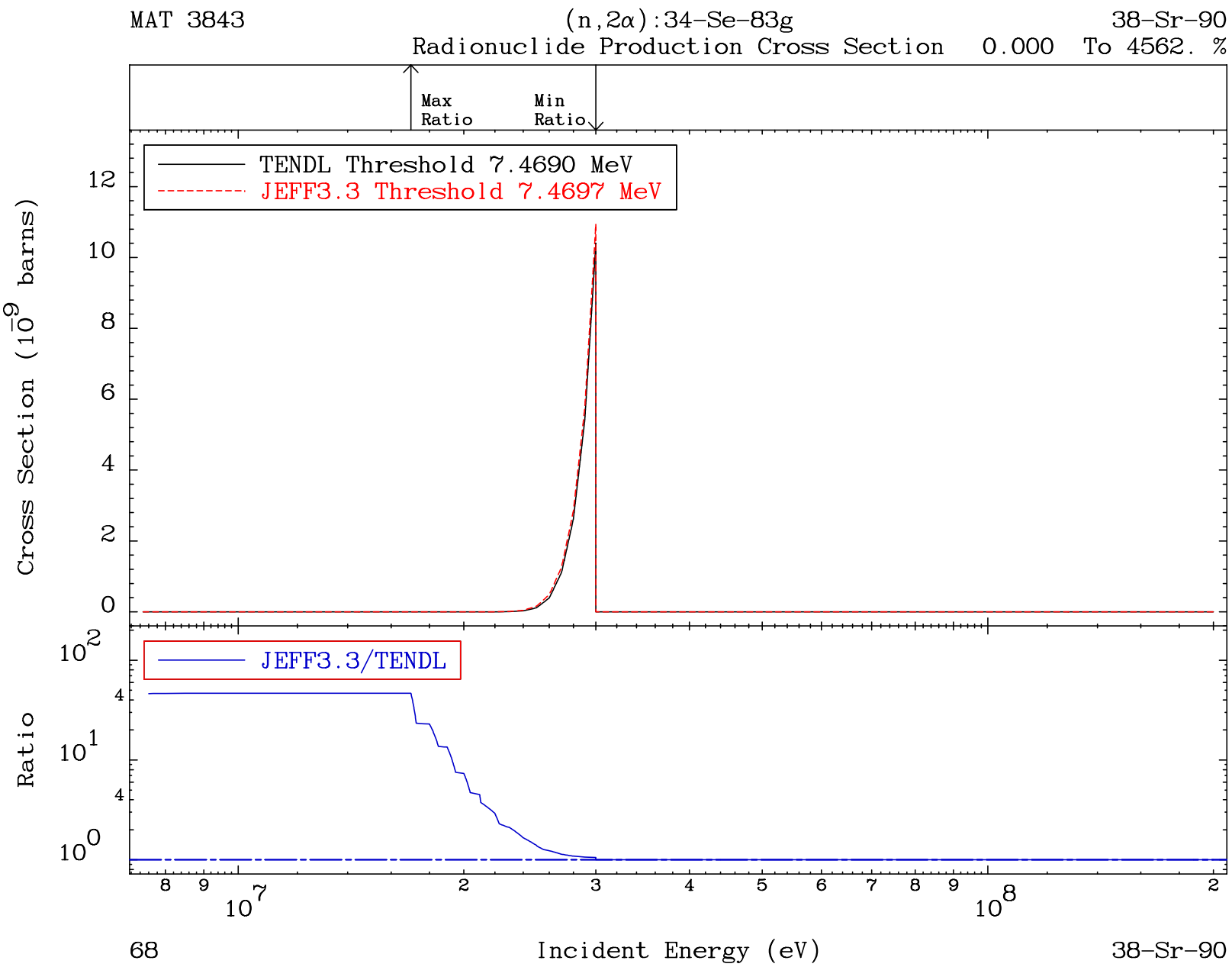

MAT 3843
(n,2n) α:36-Kr-85m1
38-Sr-90
Radionuclide Production Cross Section -1.251 To 1712. %
Max Ratio
Min Ratio
TENDL Threshold 18.000 MeV
JEFF3.3 Threshold 15.441 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
4
10^1
6
4
10^0
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
38-Sr-90

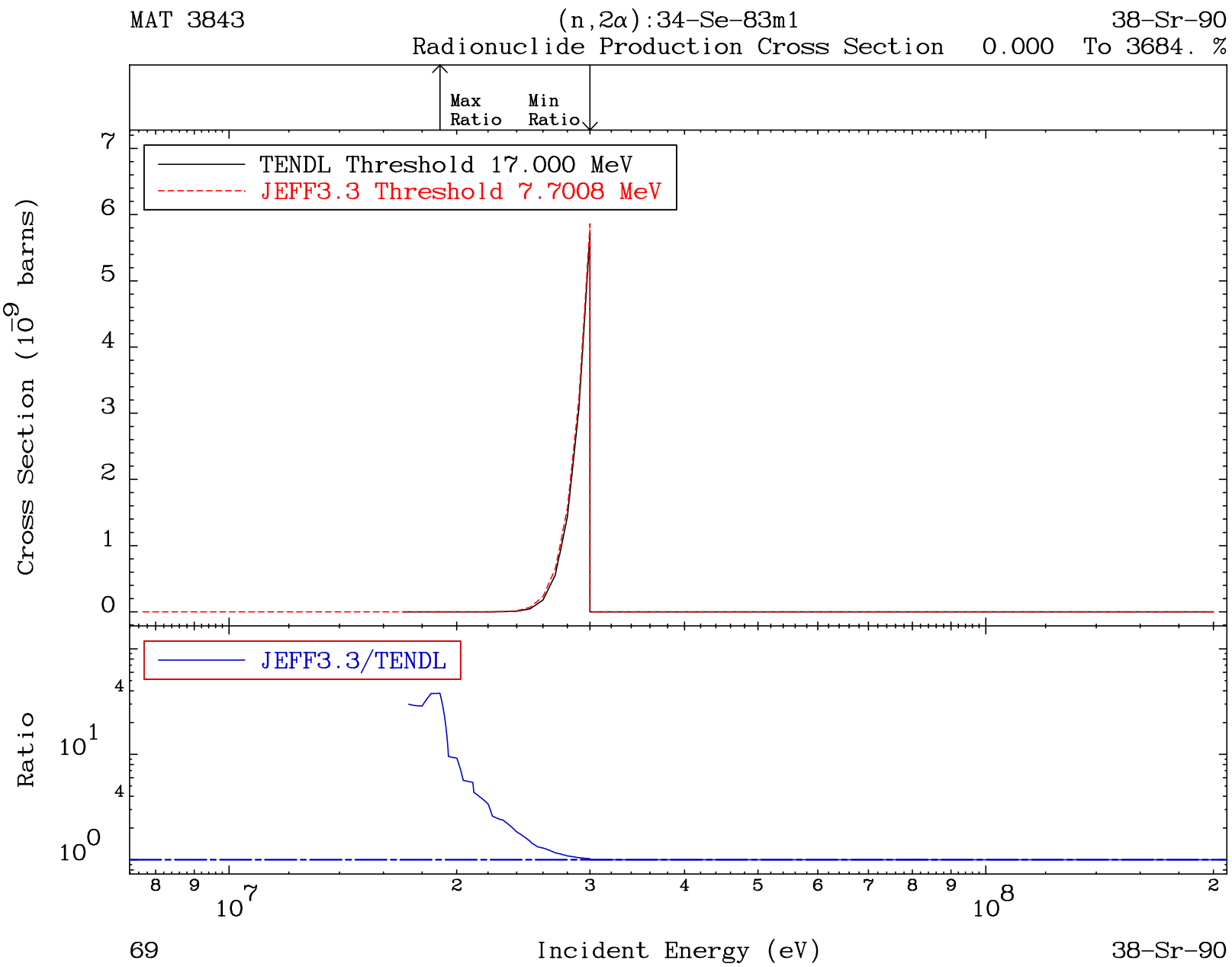

MAT 3843
(n,4n):38-Sr-87g
38-Sr-90
Radionuclide Production Cross Section -6.066 To 1.119 %
Max
Ratio
TENDL Threshold 25.559 MeV
JEFF3.3 Threshold 25.567 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.00
0.96
40
60
80
100
120
140
160
180
200
64
Incident Energy (MeV)
38-Sr-90


MAT 3843
(n,4n):38-Sr-87m1
38-Sr-90
Radionuclide Production Cross Section
-20.27 To 0.469 %
Max
Ratio
TENDL Threshold 25.952 MeV
JEFF3.3 Threshold 25.959 MeV
Cross Section (milli-barns)
15
10
5
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
40
60
80
100
120
140
160
180
200
65
Incident Energy (MeV)
38-Sr-90


MAT 3843
(n,p):37-Rb-90g
38-Sr-90
Radionuclide Production Cross Section
-2.250 To 5.378 %
Min Ratio
Max Ratio
TENDL Threshold 5.8665 MeV
JEFF3.3 Threshold 5.8665 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
1.04
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
38-Sr-90


MAT 3843
(n,p):37-Rb-90m1
38-Sr-90
Radionuclide Production Cross Section -5.407 To 6.463 %
Min Ratio
Max Ratio
TENDL Threshold 5.9746 MeV
JEFF3.3 Threshold 5.9746 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
67
Incident Energy (eV)
38-Sr-90


MAT 3843
(n,2α):34-Se-83g
38-Sr-90
Radionuclide Production Cross Section 0.000 To 4562. %
Max Ratio
Min Ratio
TENDL Threshold 7.4690 MeV
JEFF3.3 Threshold 7.4697 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
38-Sr-90


MAT 3843
(n,2α):34-Se-83m1
38-Sr-90
Radionuclide Production Cross Section 0.000 To 3684. %
Max Ratio
Min Ratio
TENDL Threshold 17.000 MeV
JEFF3.3 Threshold 7.7008 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
38-Sr-90