Program Complot
(Version 2021-1)
by
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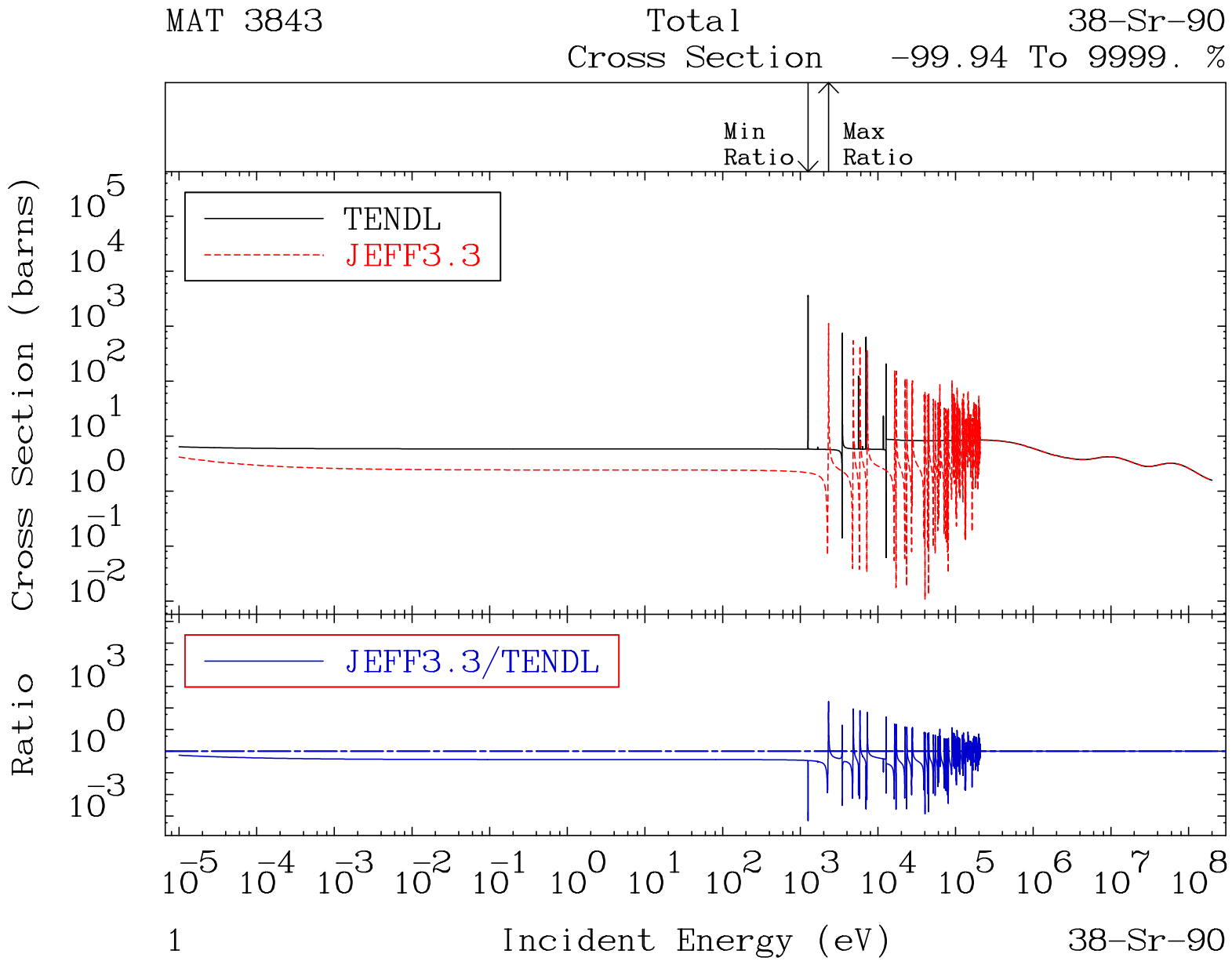
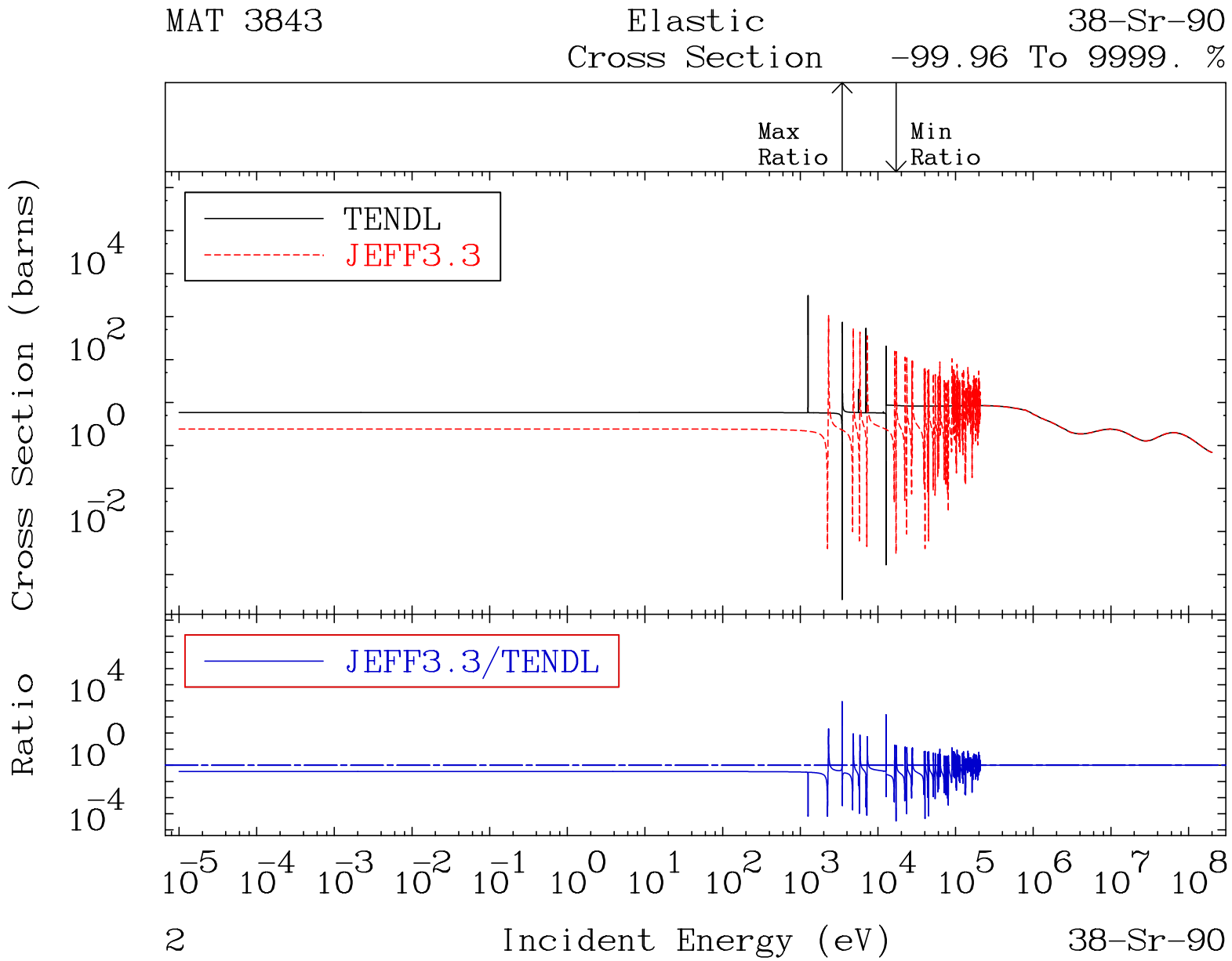
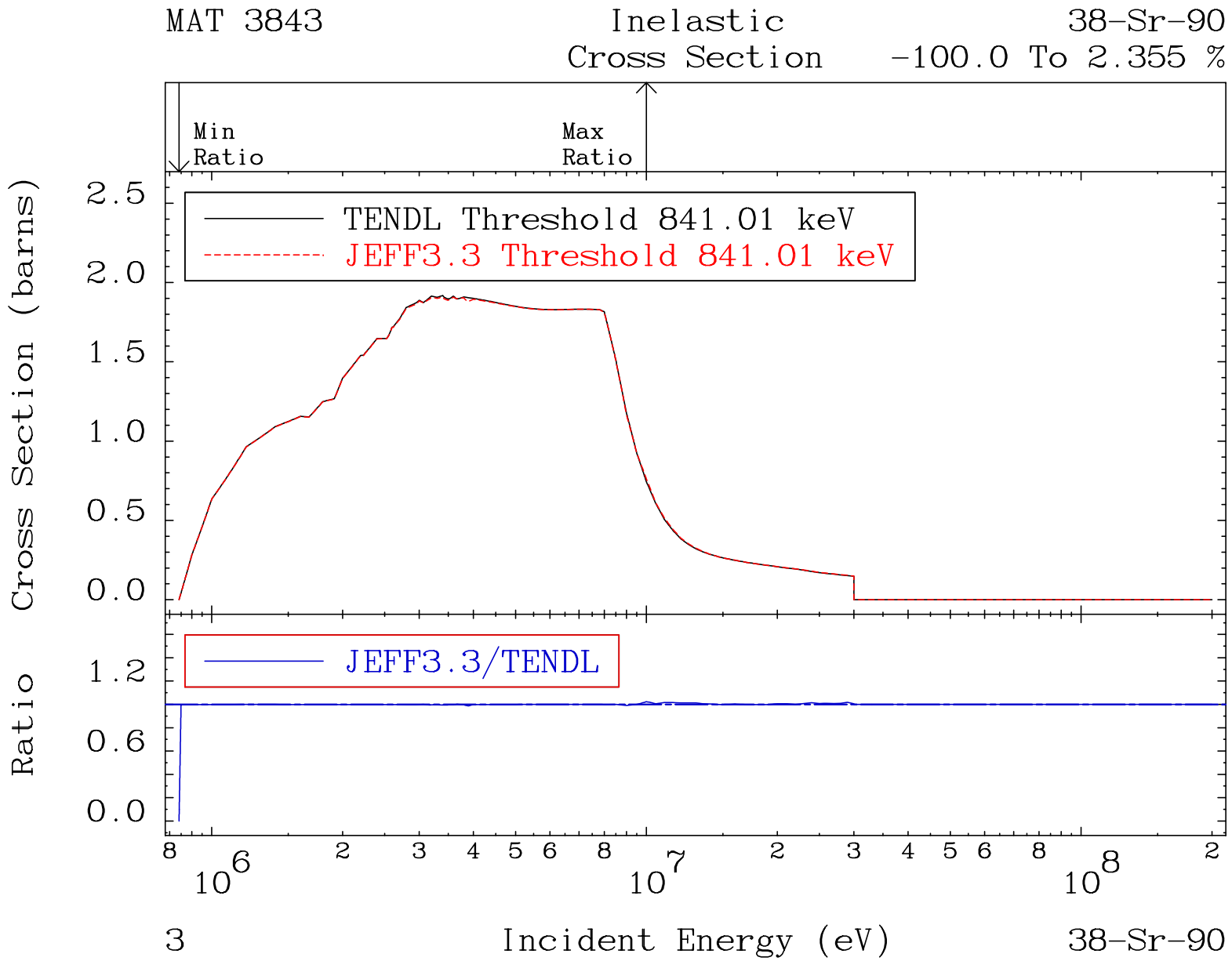
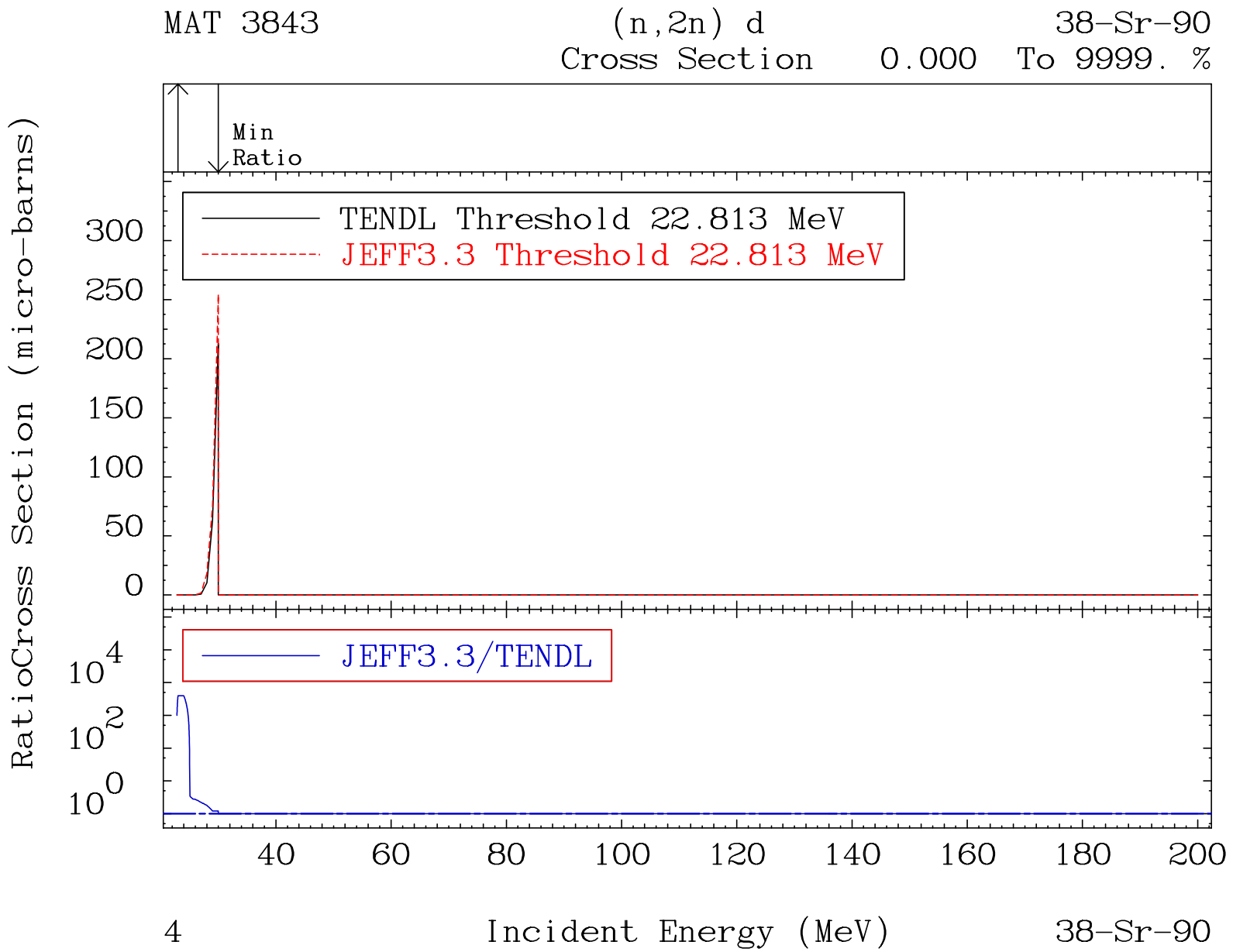
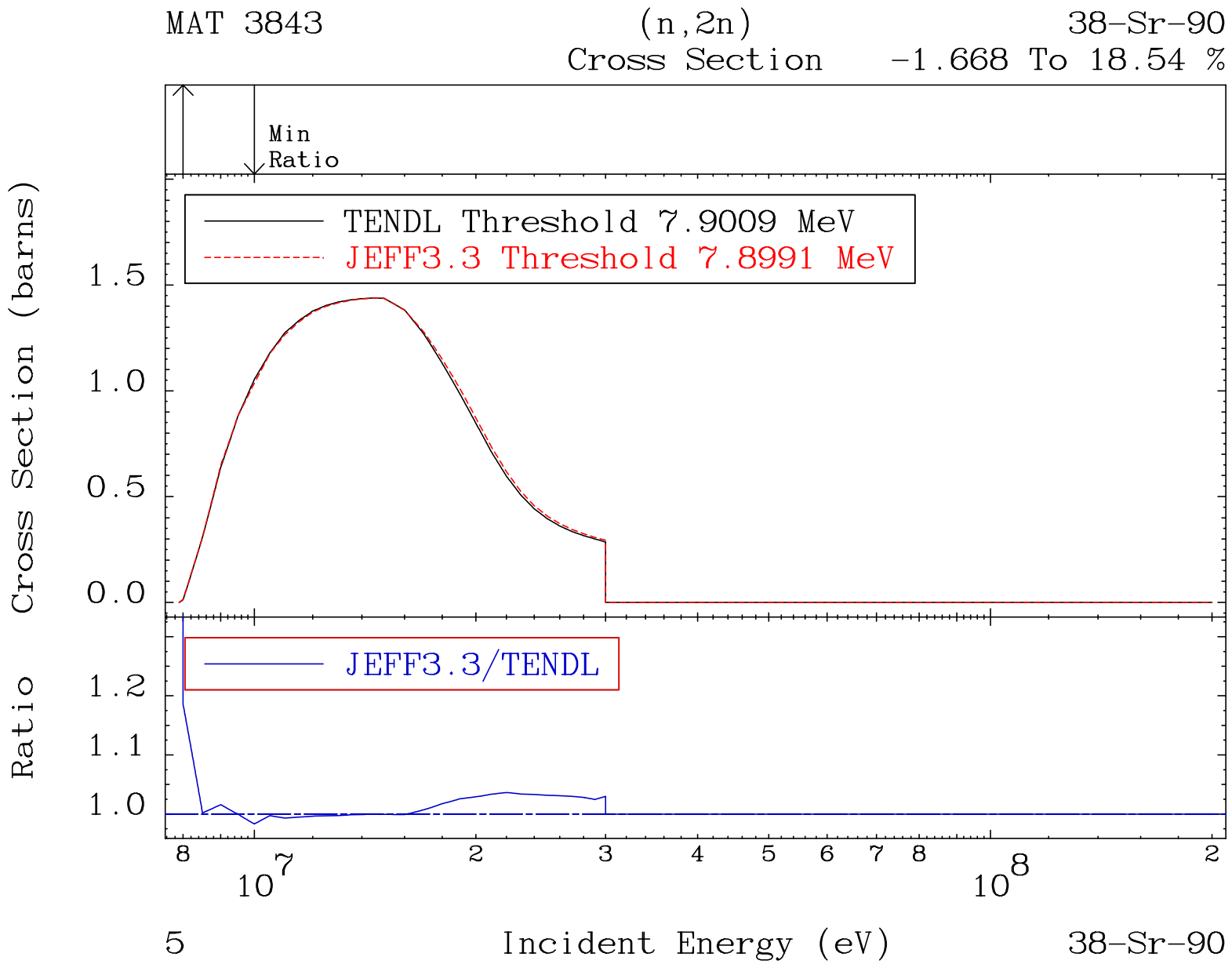
Press Mouse Button to Start

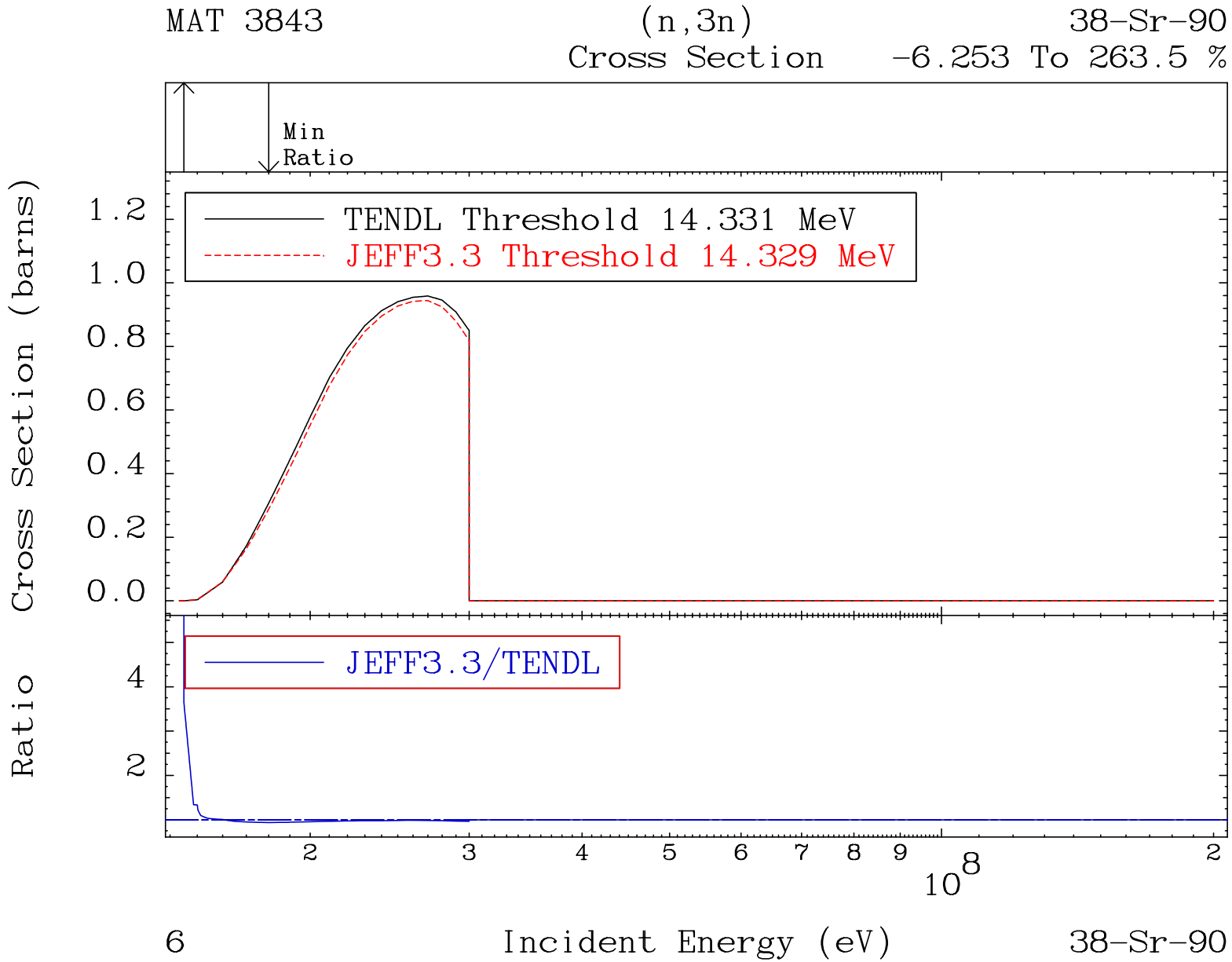

MAT 3843
Total
Cross Section
38-Sr-90
-99.94 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
38-Sr-90

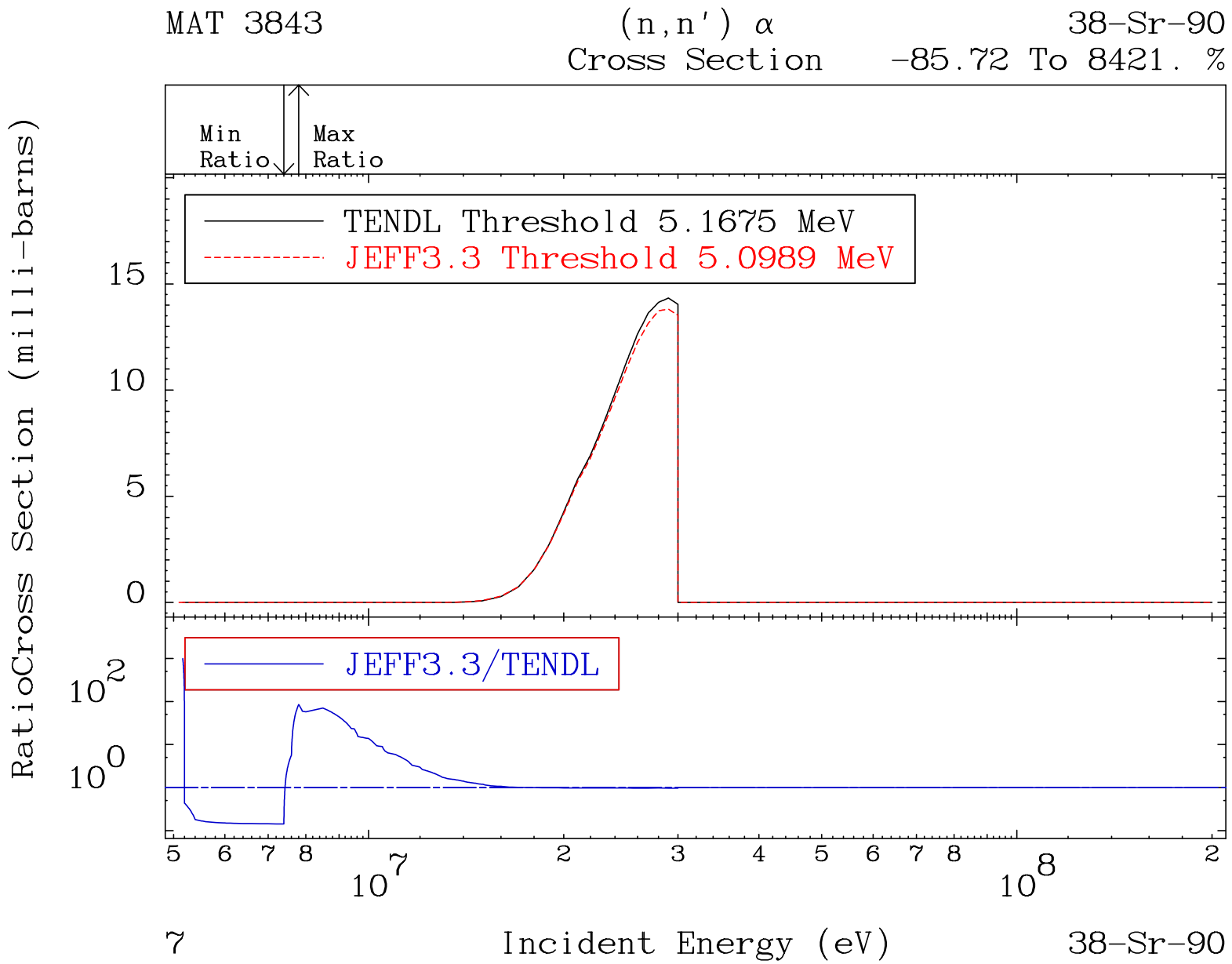

MAT 3843
Elastic
Cross Section
38-Sr-90
-99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
38-Sr-90

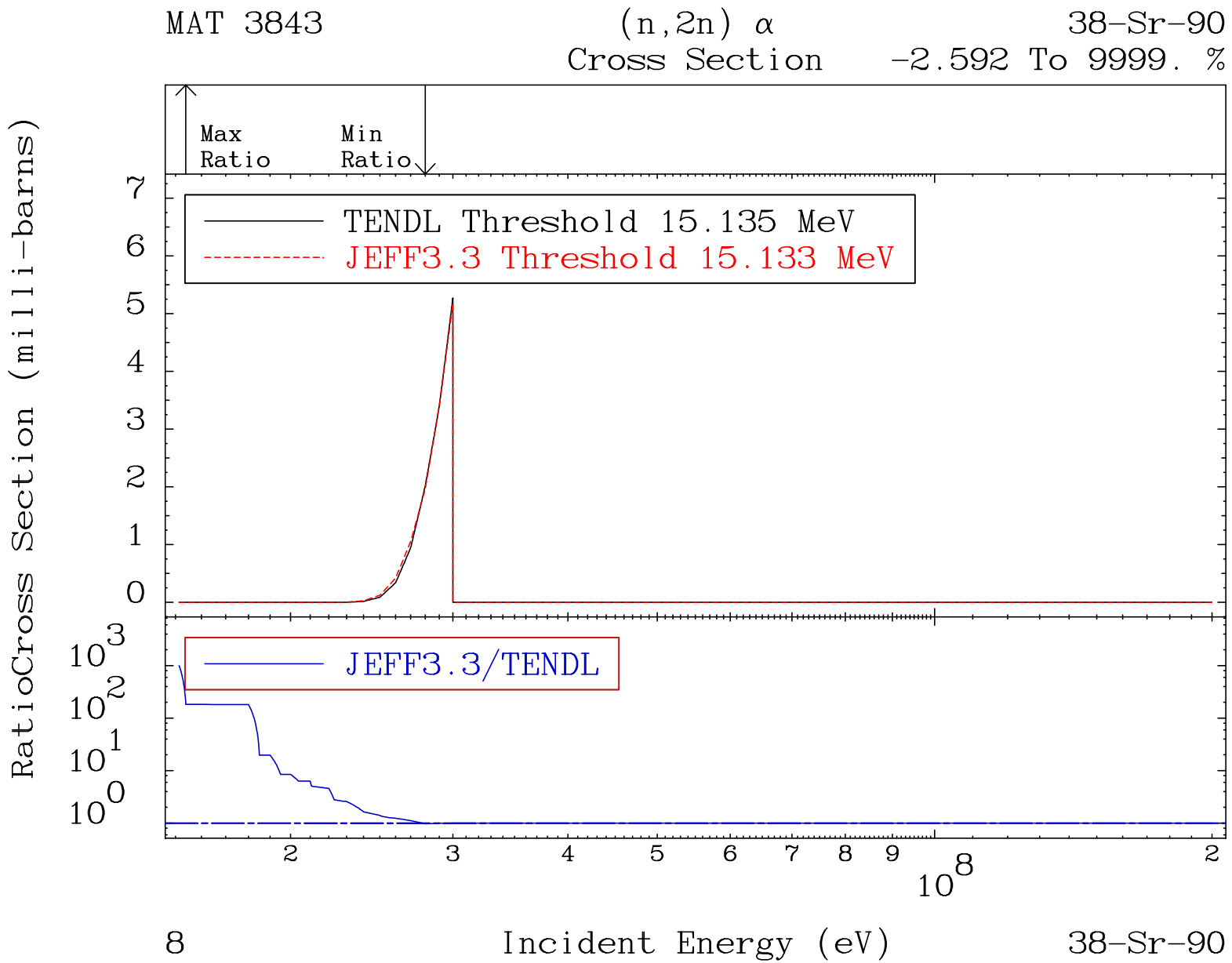

MAT 3843
Inelastic
Cross Section
38-Sr-90
-100.0 To 2.355 %
Min Ratio
Max Ratio
TENDL Threshold 841.01 keV
JEFF3.3 Threshold 841.01 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
38-Sr-90

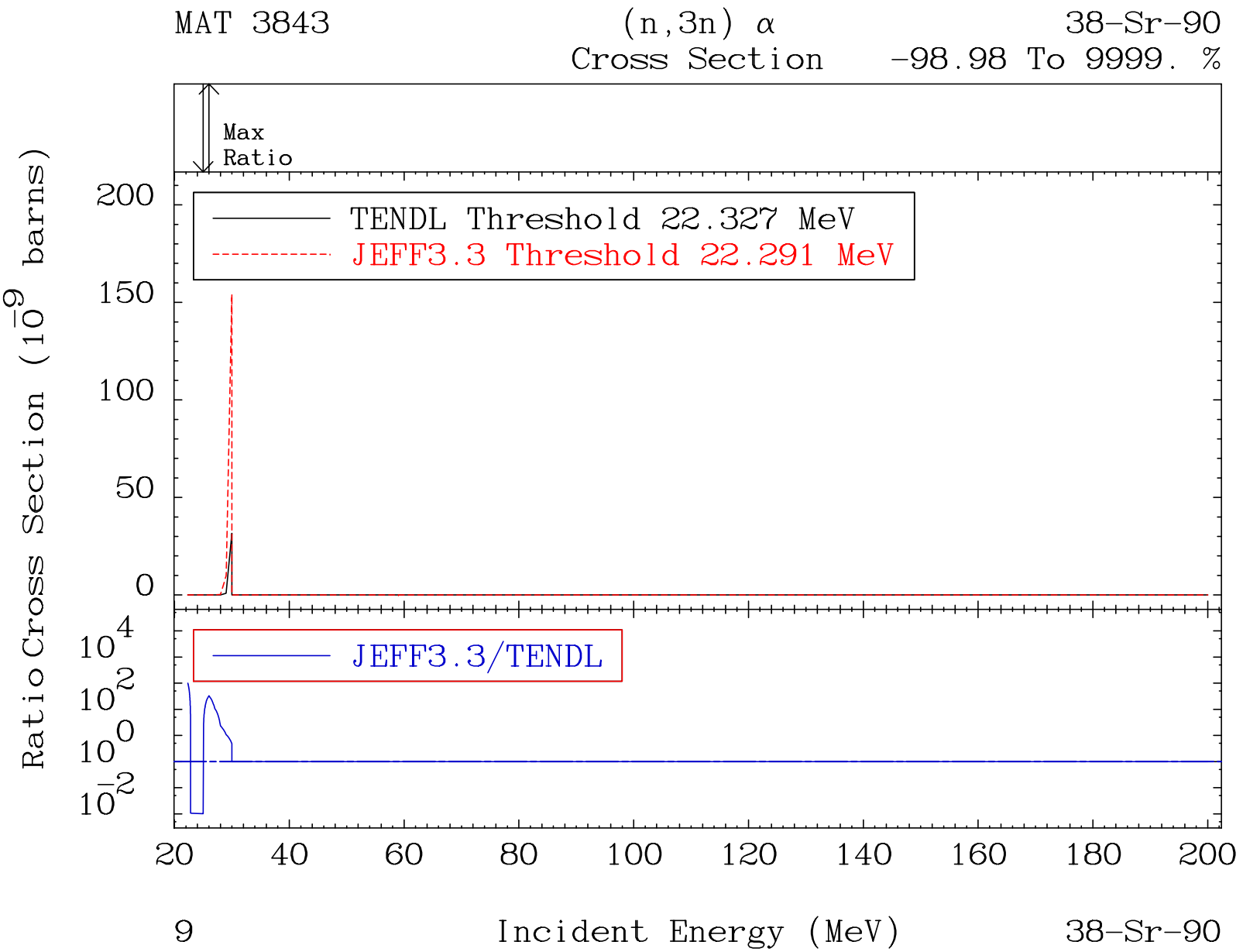

MAT 3843
(n,2n) d
38-Sr-90
Cross Section 0.000 To 9999. %
Min
Ratio
TENDL Threshold 22.813 MeV
JEFF3.3 Threshold 22.813 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
300
250
200
150
100
50
0
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
38-Sr-90

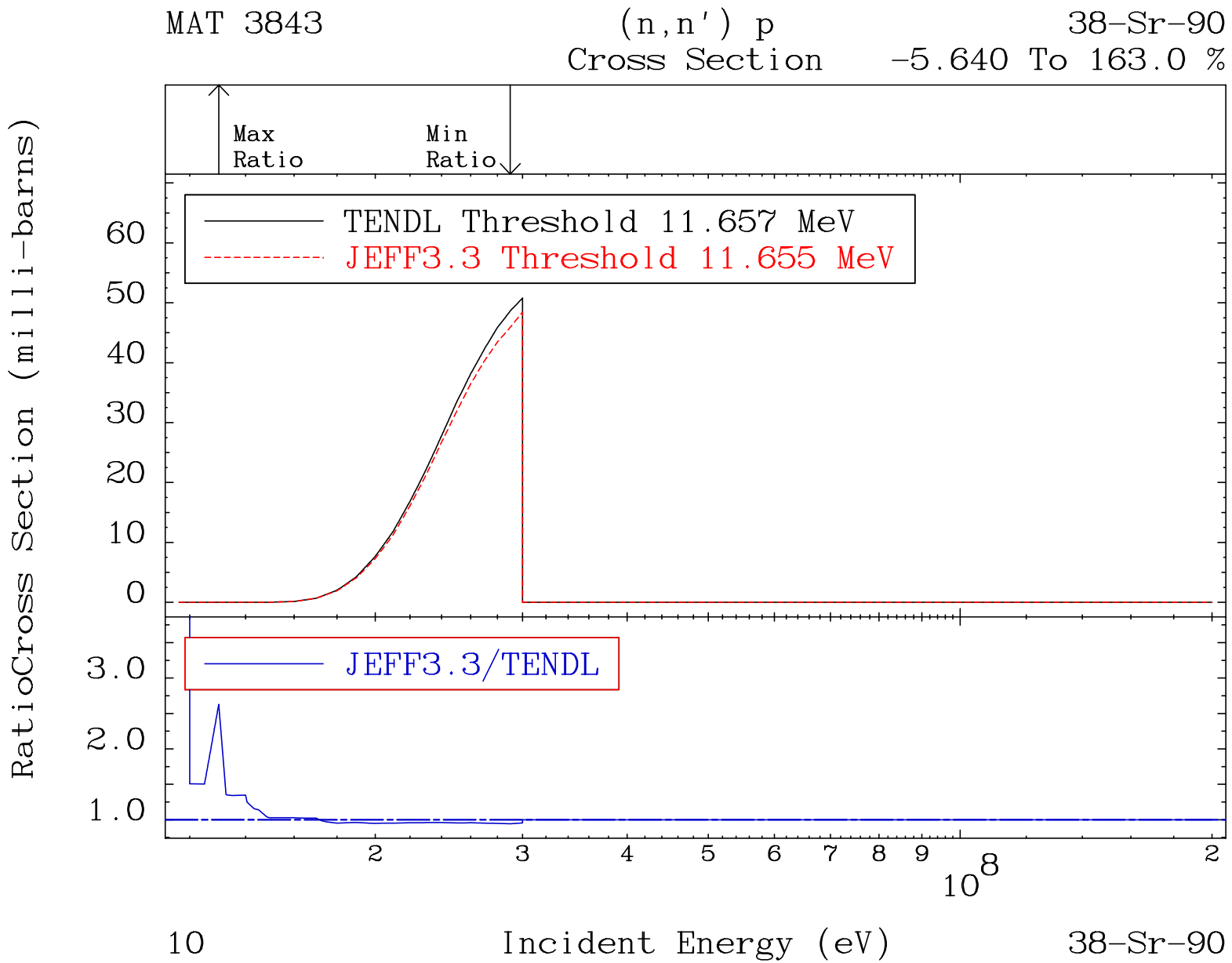

MAT 3843
(n,2n)
38-Sr-90
Cross Section
-1.668 To 18.54 %
Min
Ratio
TENDL Threshold 7.9009 MeV
JEFF3.3 Threshold 7.8991 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
8
2
3
4
5
6
7
8
2
10^7
10^8
5
Incident Energy (eV)
38-Sr-90

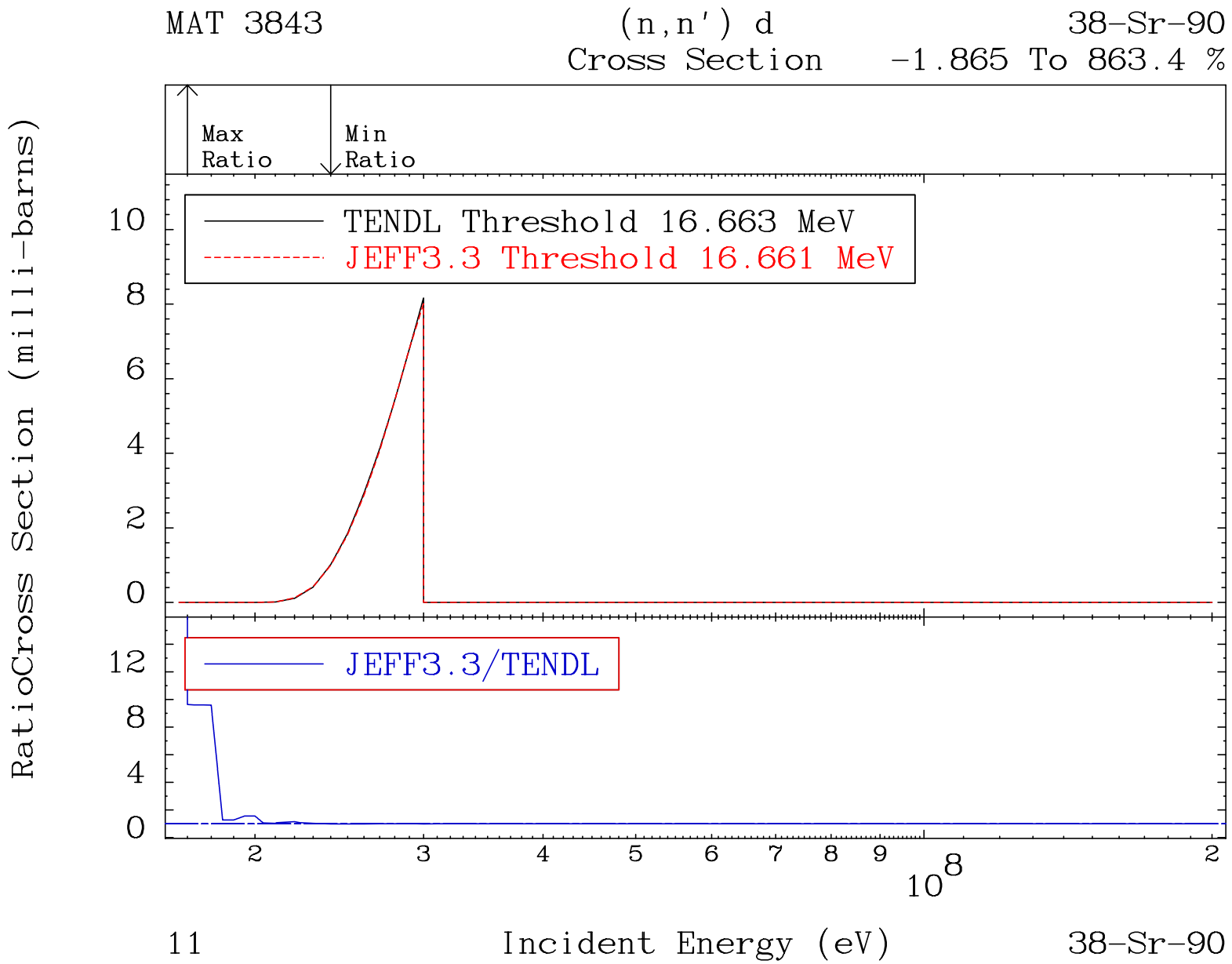

MAT 3843
(n,3n)
Cross Section
38-Sr-90
-6.253 To 263.5 %
Min
Ratio
TENDL Threshold 14.331 MeV
JEFF3.3 Threshold 14.329 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
38-Sr-90

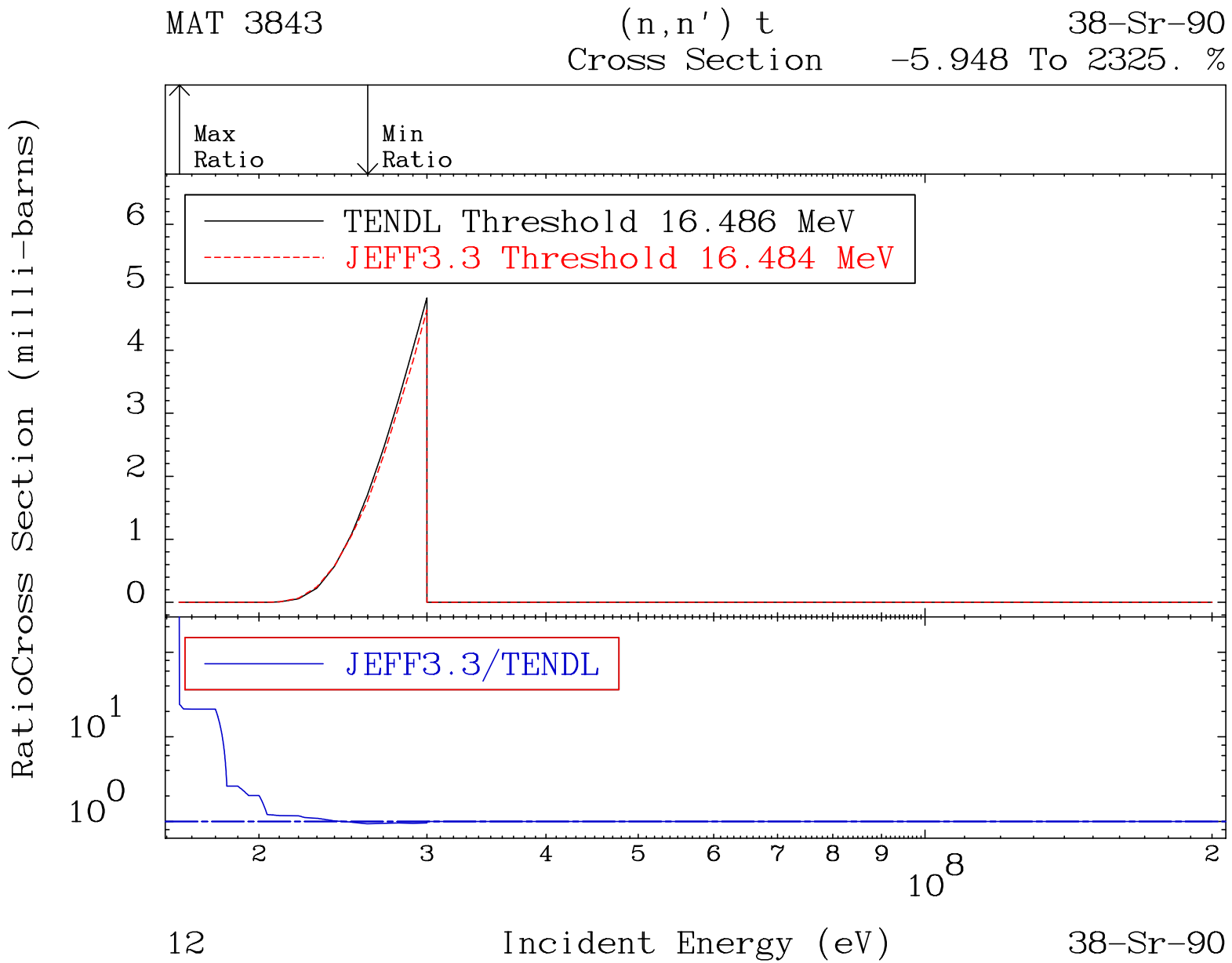

MAT 3843
(n,n') α
Cross Section
38-Sr-90
-85.72 To 8421. %
Min Ratio
Max Ratio
TENDL Threshold 5.1675 MeV
JEFF3.3 Threshold 5.0989 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
15
10
5
0
10^2
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
38-Sr-90

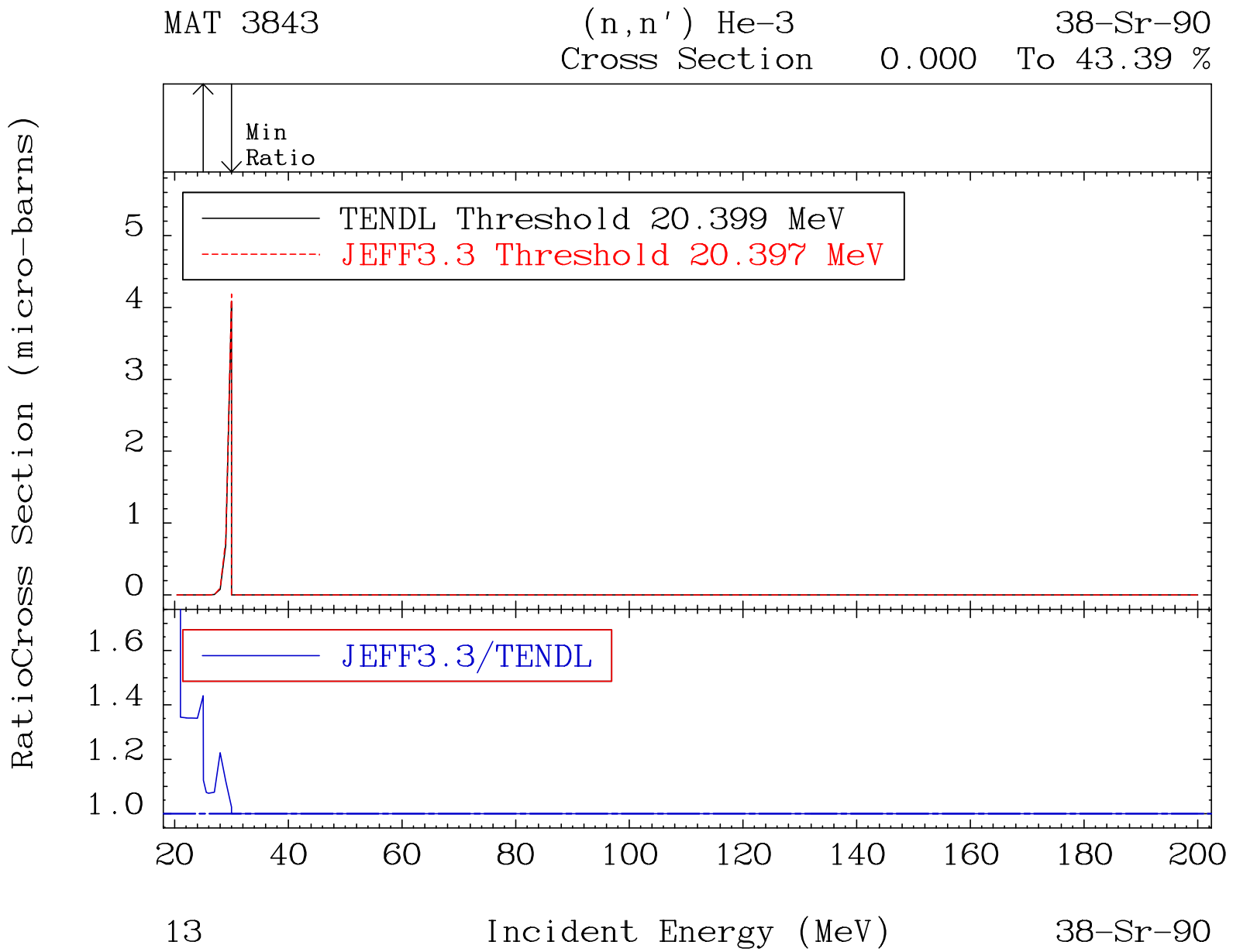

MAT 3843
(n,2n) α
38-Sr-90
Cross Section
-2.592 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 15.135 MeV
JEFF3.3 Threshold 15.133 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
8
38-Sr-90

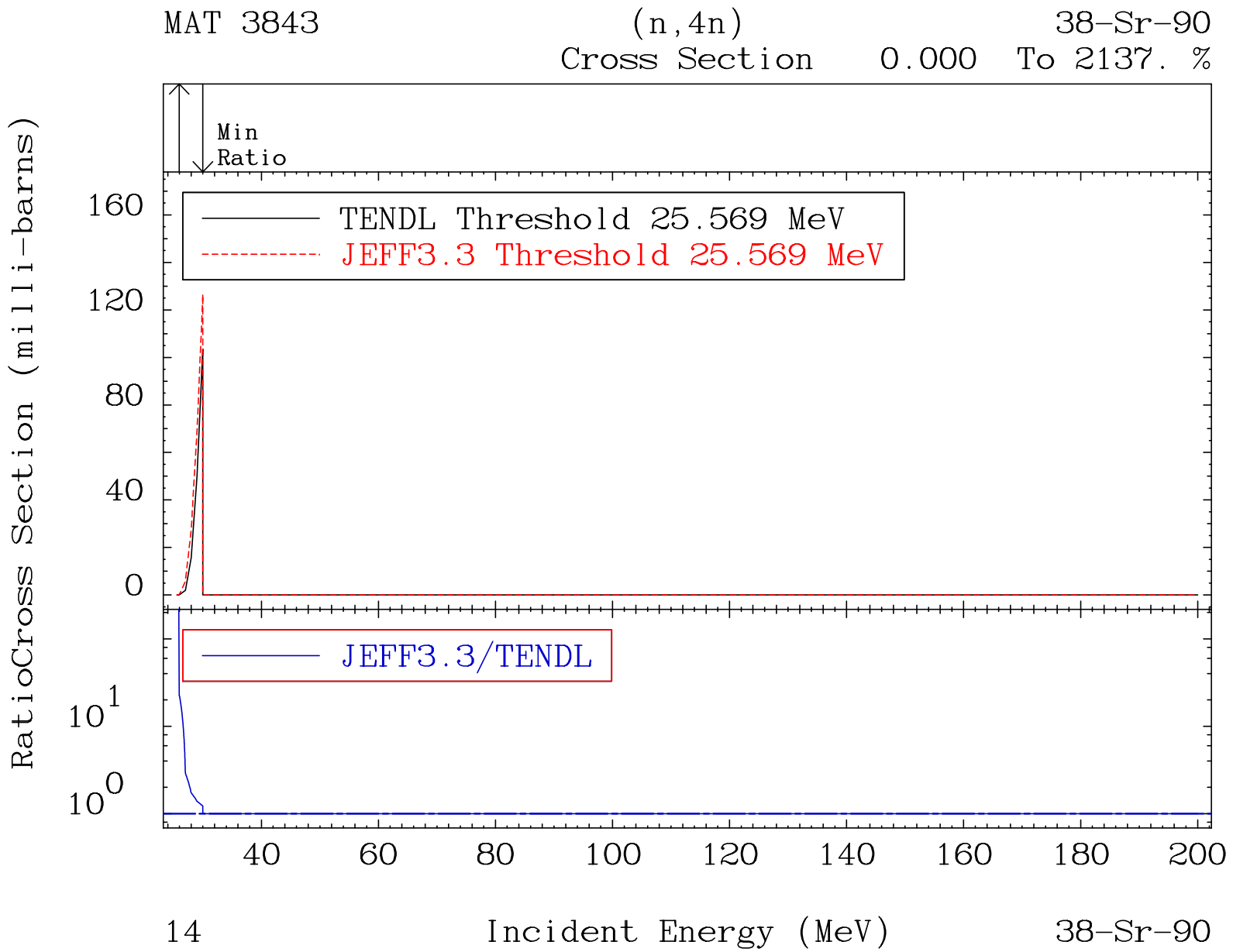

MAT 3843
(n,3n) α
Cross Section
38-Sr-90
-98.98 To 9999. %
Max
Ratio
TENDL Threshold 22.327 MeV
JEFF3.3 Threshold 22.291 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
200
150
100
50
0
10^4
10^2
10^0
10^-2
20
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
38-Sr-90

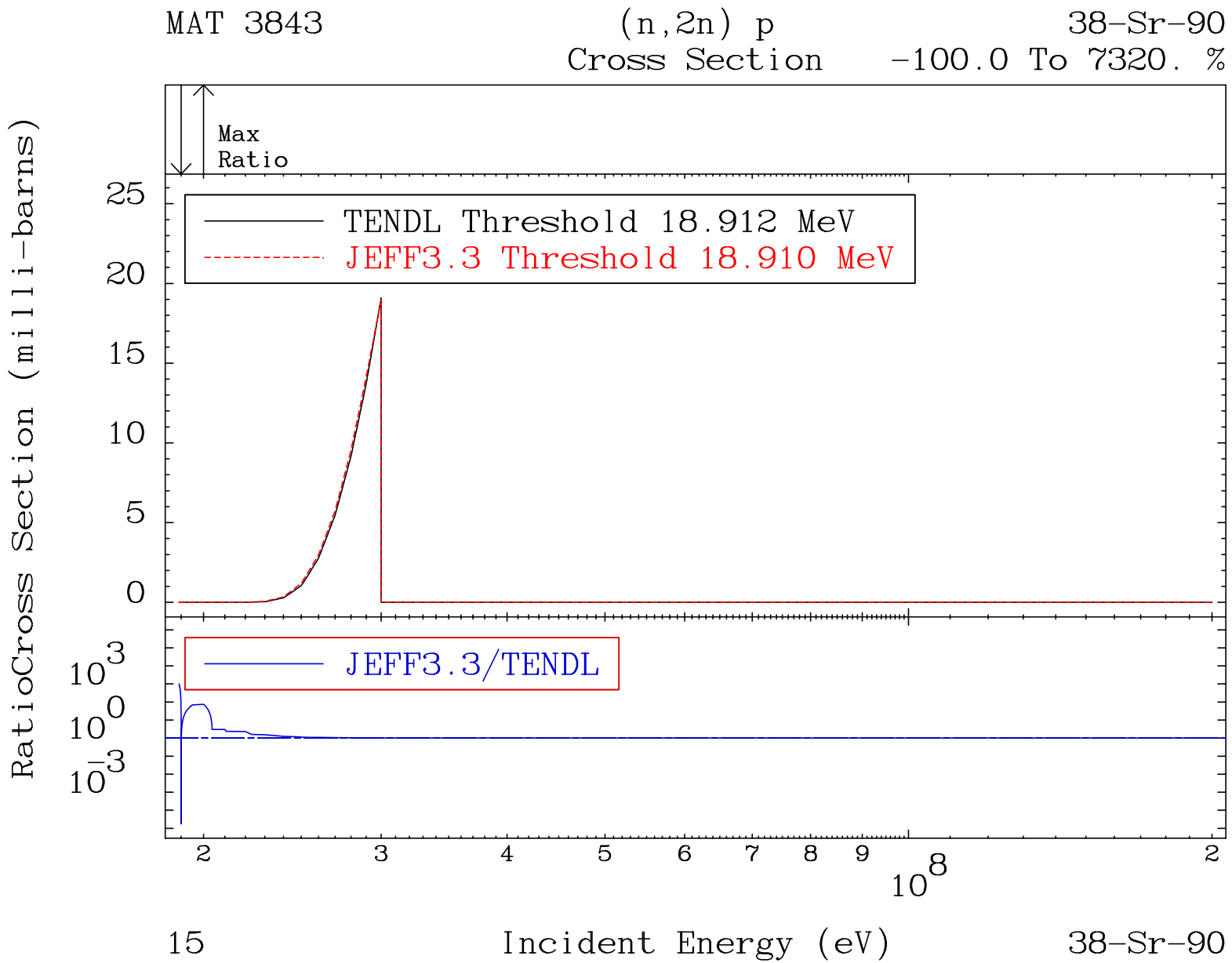

MAT 3843
(n,n') p
Cross Section
38-Sr-90
-5.640 To 163.0 %
Max Ratio
Min Ratio
TENDL Threshold 11.657 MeV
JEFF3.3 Threshold 11.655 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
10
Incident Energy (eV)
38-Sr-90

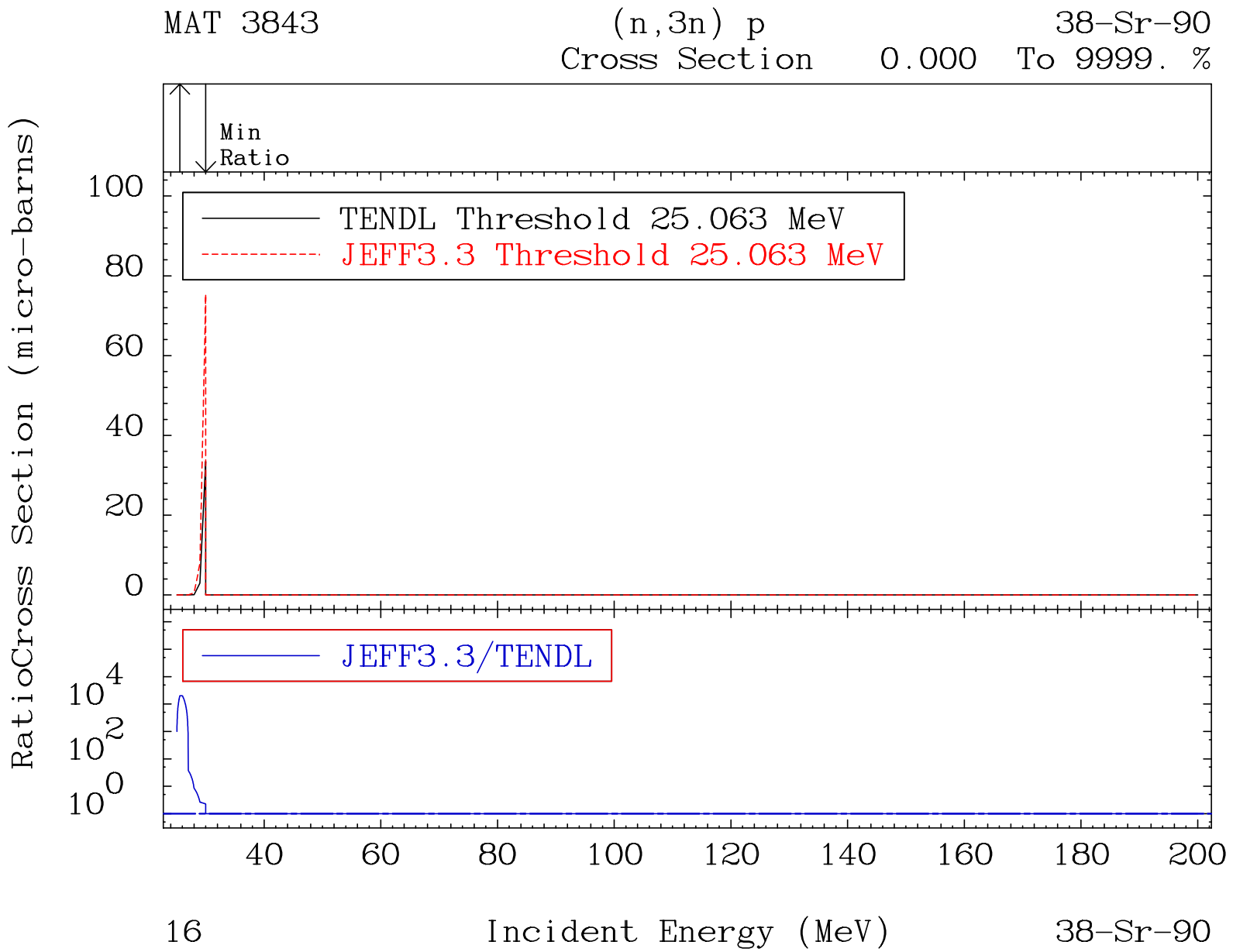

MAT 3843
(n,n') d
Cross Section
38-Sr-90
-1.865 To 863.4 %
Max Ratio
Min Ratio
TENDL Threshold 16.663 MeV
JEFF3.3 Threshold 16.661 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
12
8
4
0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
38-Sr-90

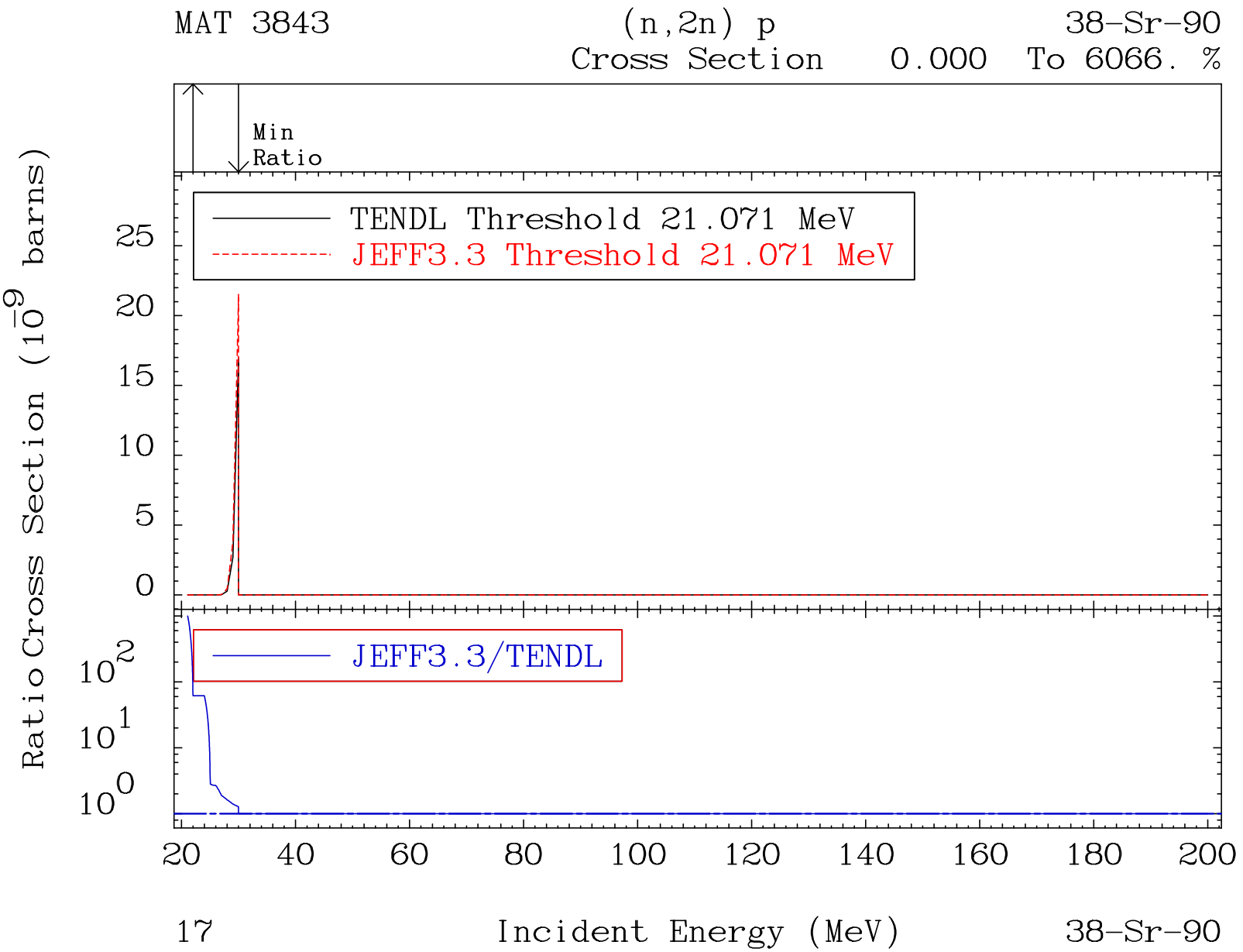

MAT 3843
(n,n') t
Cross Section
38-Sr-90
-5.948 To 2325. %
Max Ratio
Min Ratio
TENDL Threshold 16.486 MeV
JEFF3.3 Threshold 16.484 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
38-Sr-90

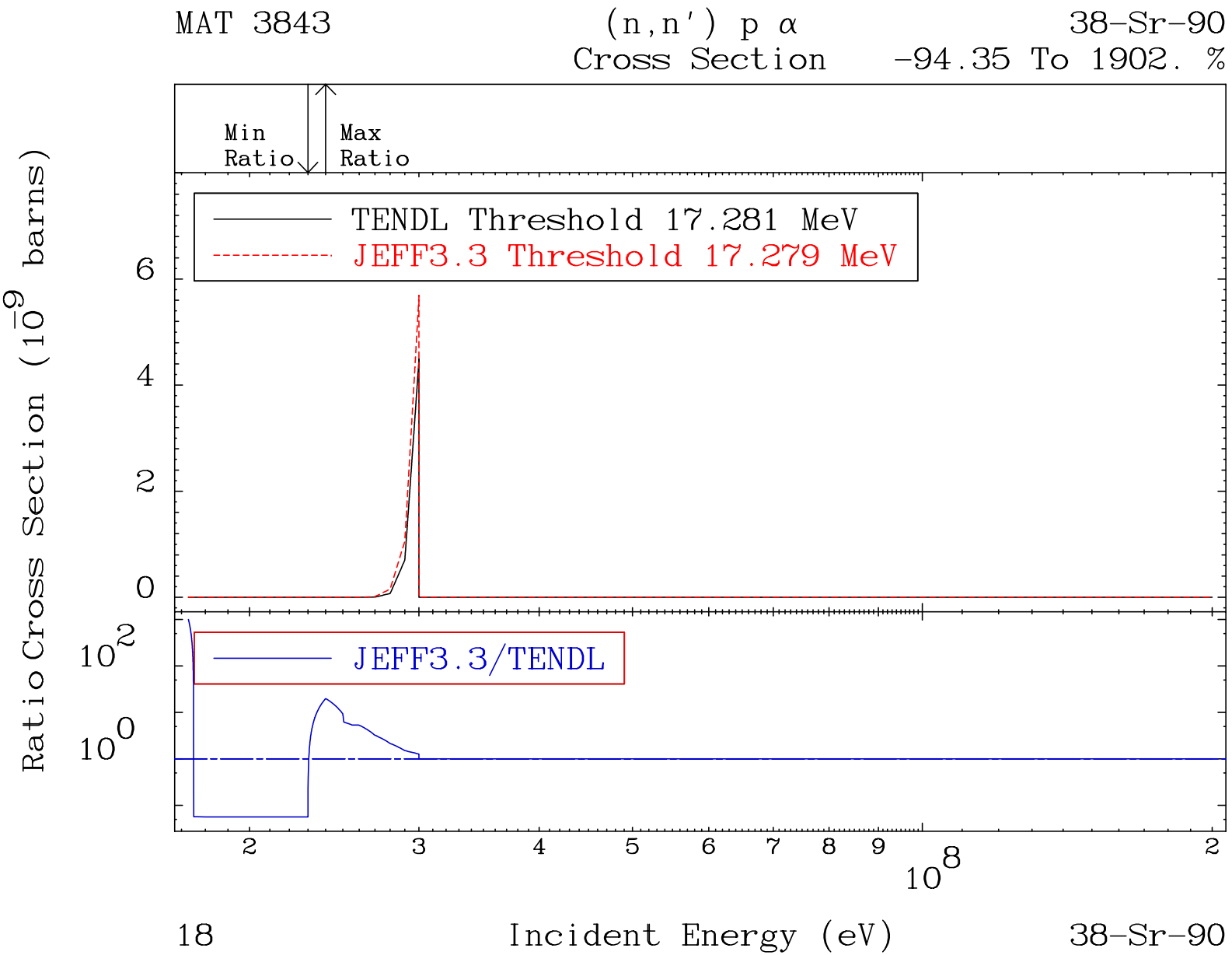

MAT 3843
(n,n') He-3
38-Sr-90
Cross Section 0.000 To 43.39 %
Min
Ratio
TENDL Threshold 20.399 MeV
JEFF3.3 Threshold 20.397 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
0
1
2
3
4
5
1.0
1.2
1.4
1.6
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
38-Sr-90

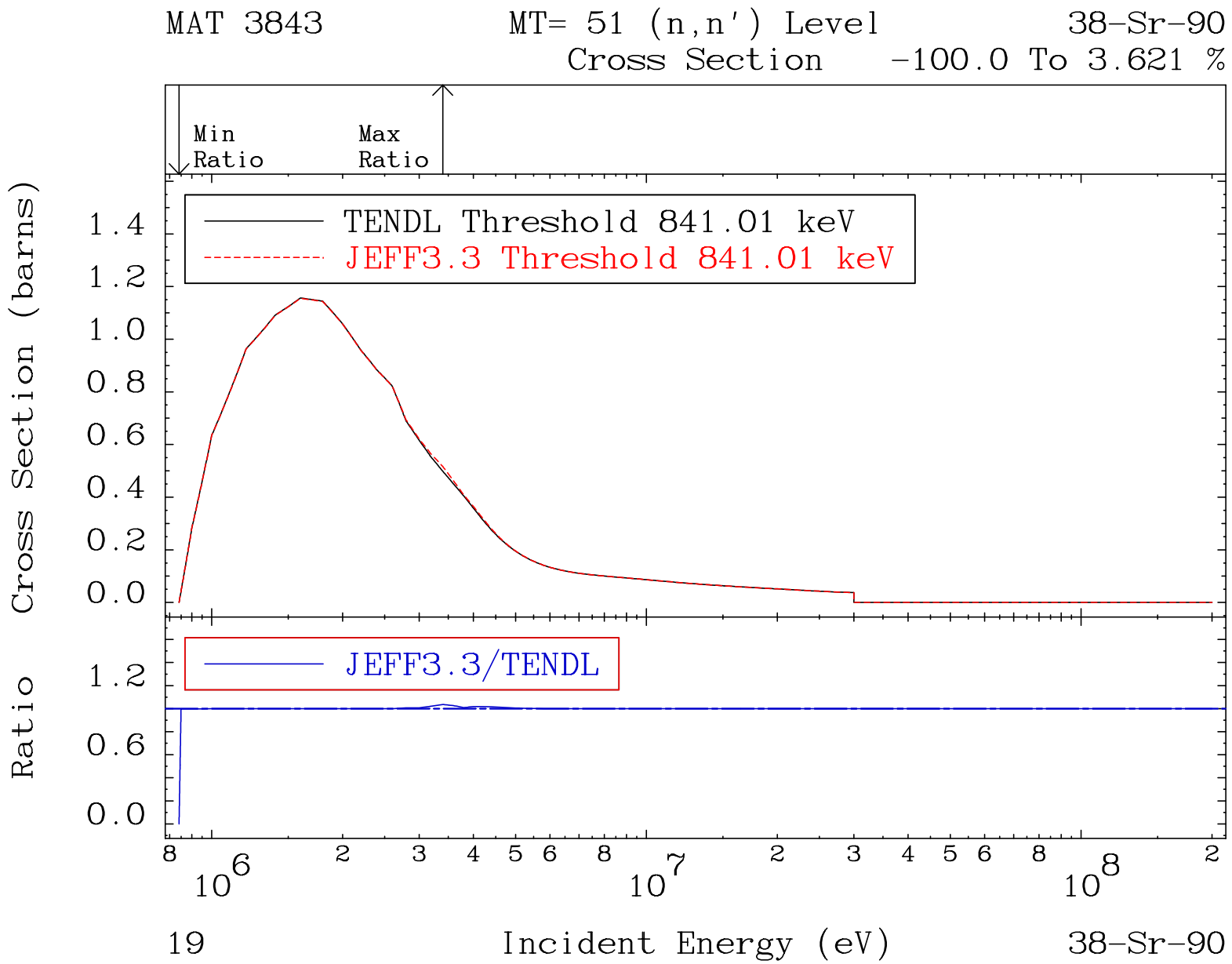

MAT 3843
(n,4n)
38-Sr-90
Cross Section 0.000 To 2137. %
Min
Ratio
TENDL Threshold 25.569 MeV
JEFF3.3 Threshold 25.569 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^1
10^0
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
38-Sr-90

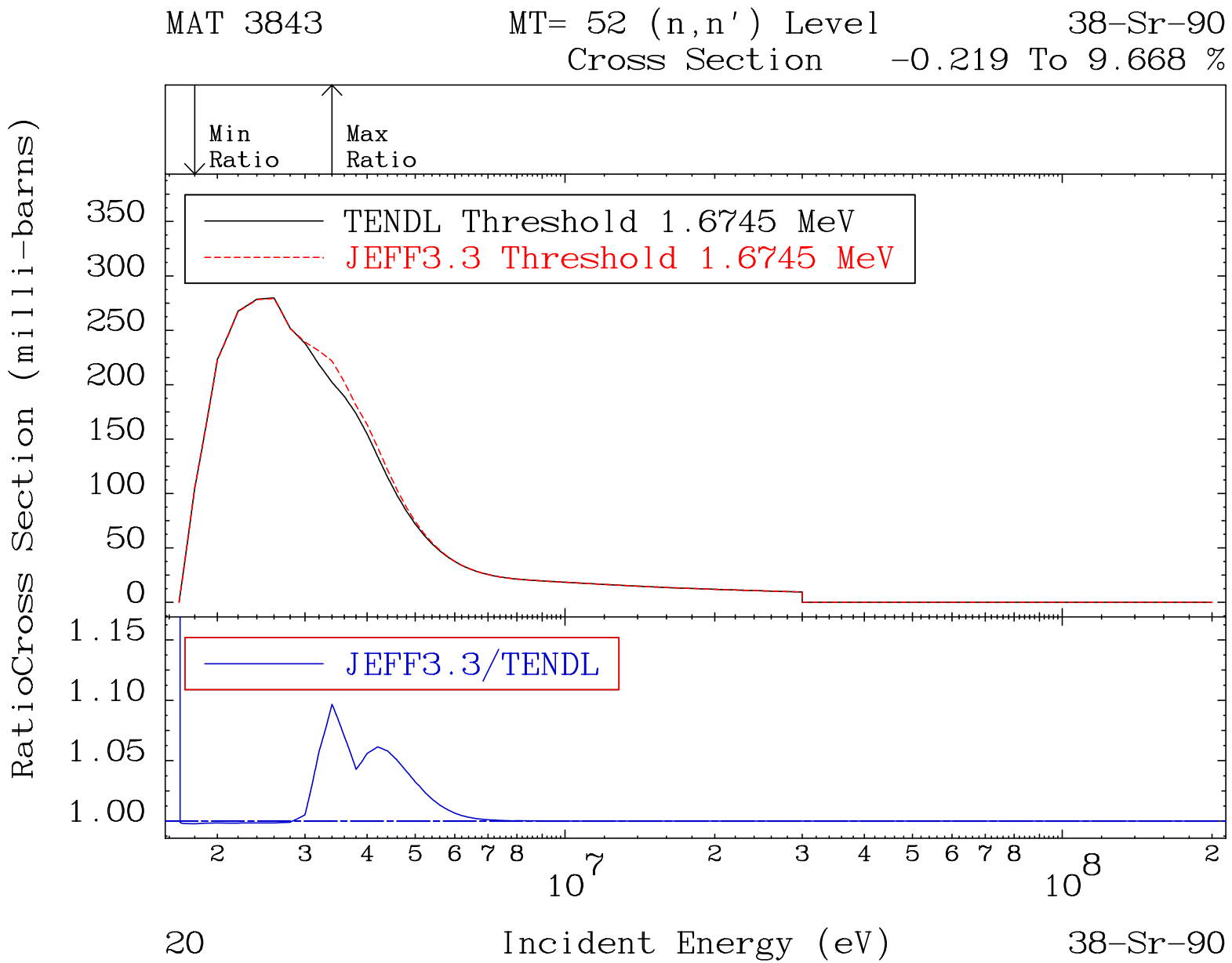

MAT 3843
(n,2n) p
Cross Section
38-Sr-90
-100.0 To 7320. %
Max
Ratio
TENDL Threshold 18.912 MeV
JEFF3.3 Threshold 18.910 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
10^3
10^0
10^-3
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
38-Sr-90

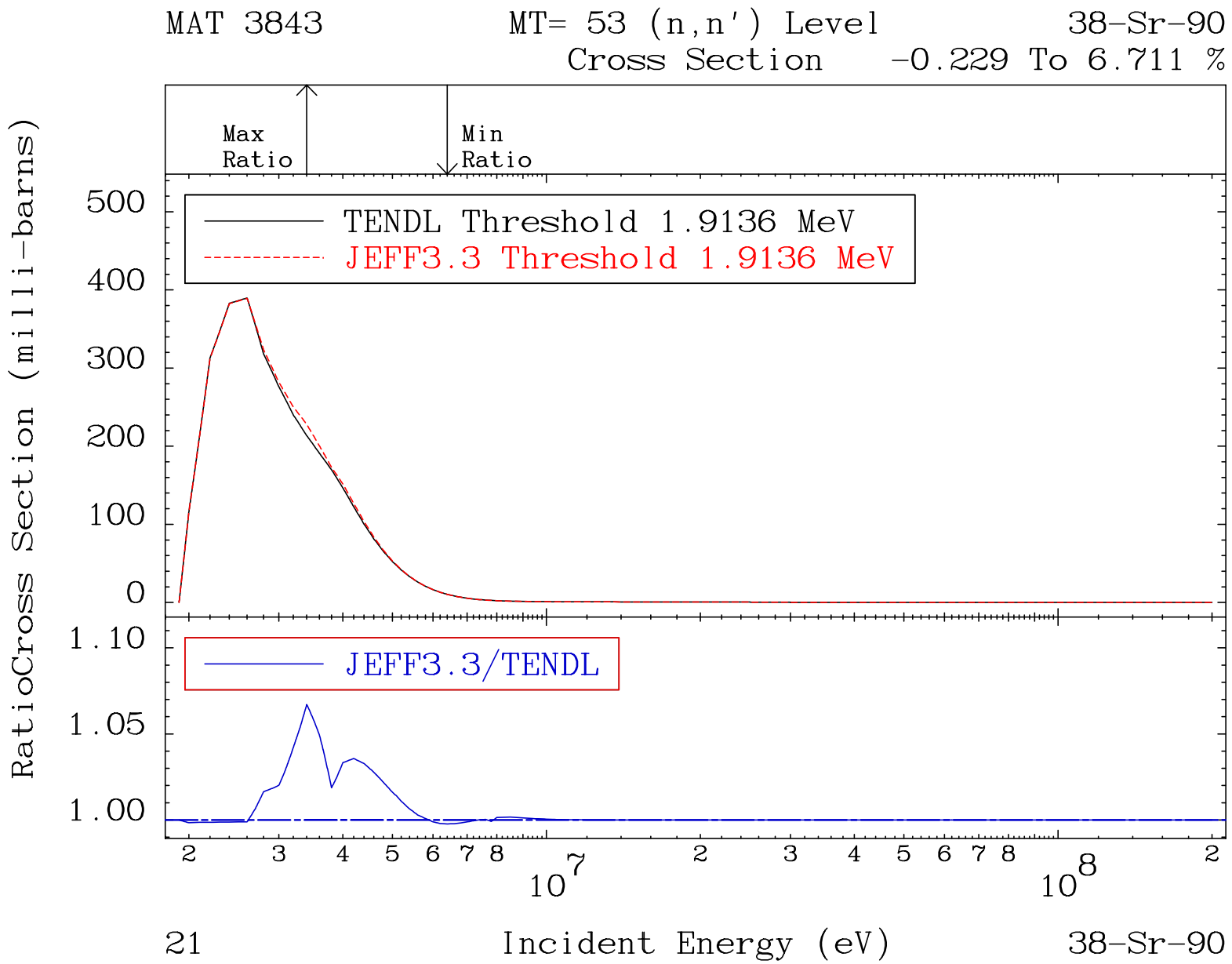

MAT 3843
(n,3n) p
38-Sr-90
Cross Section 0.000 To 9999. %
Min
Ratio
100
80
60
40
20
0
TENDL Threshold 25.063 MeV
JEFF3.3 Threshold 25.063 MeV
JEFF3.3/TENDL
10^4
10^2
10^0
RatioCross Section (micro-barns)
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
38-Sr-90

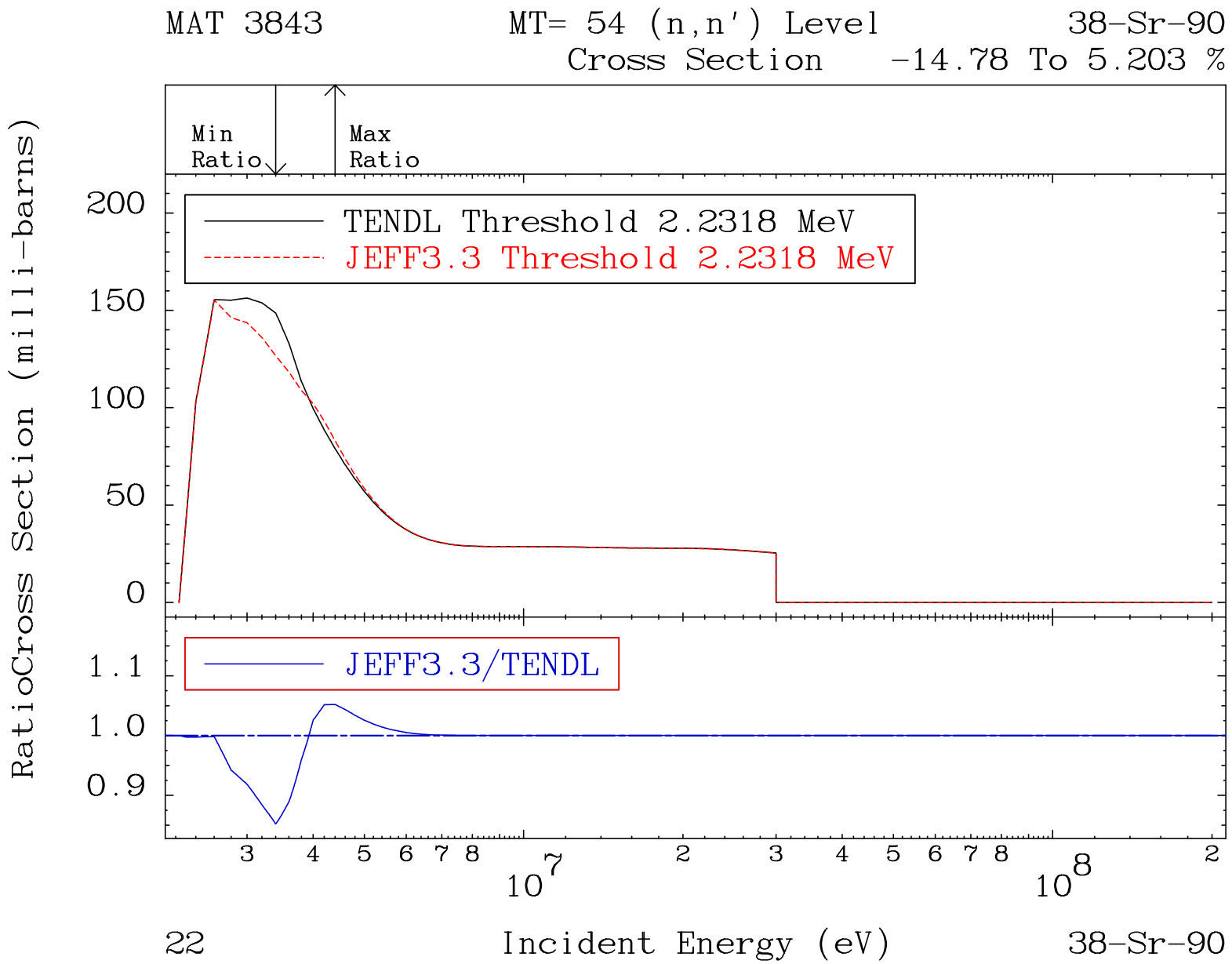

MAT 3843
(n,2n) p
38-Sr-90
Cross Section 0.000 To 6066. %
Min
Ratio
TENDL Threshold 21.071 MeV
JEFF3.3 Threshold 21.071 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
25
20
15
10
5
0
10^2
10^1
10^0
20
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
38-Sr-90

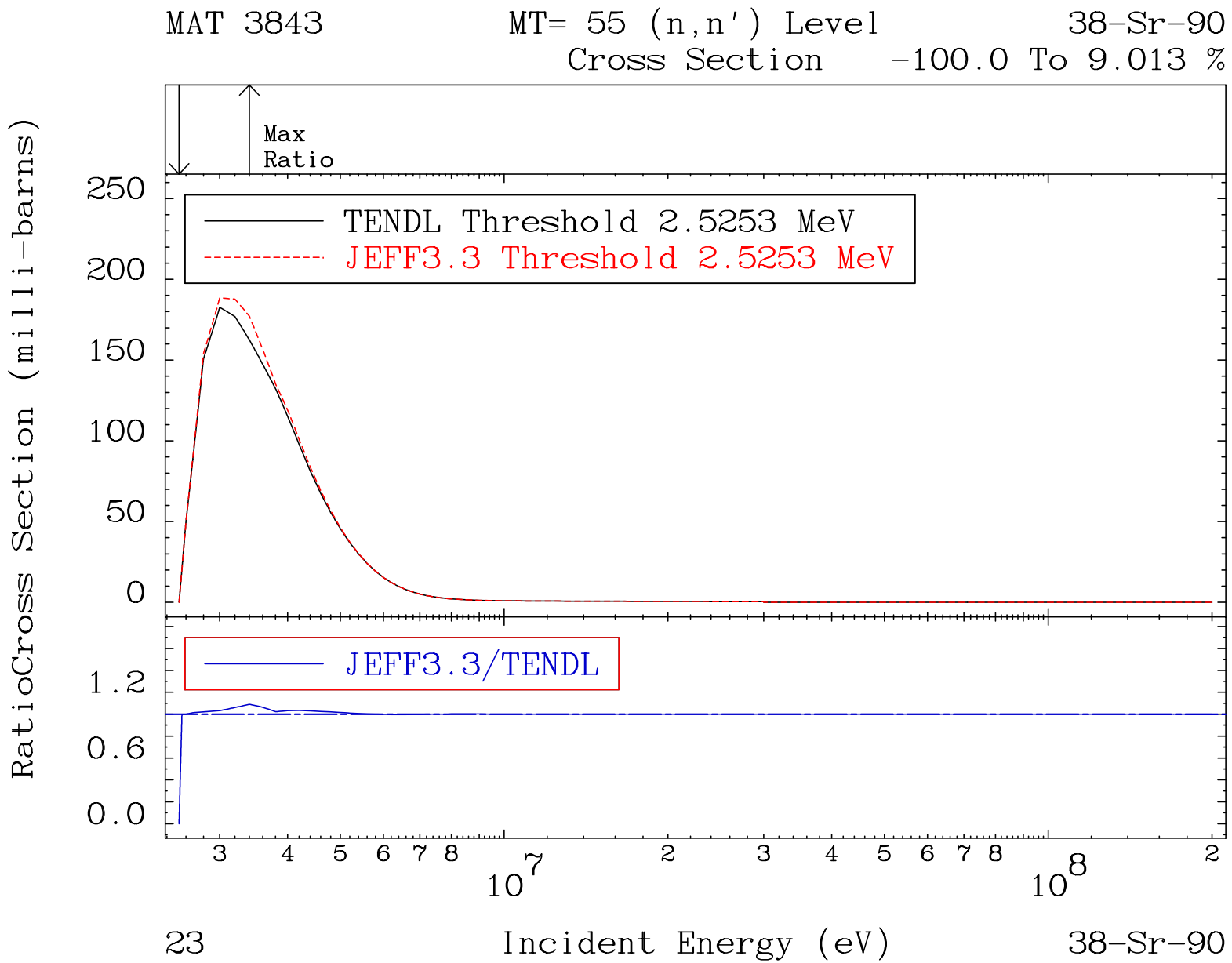

MAT 3843
(n,n') p α
Cross Section
38-Sr-90
-94.35 To 1902. %
Min Ratio
Max Ratio
TENDL Threshold 17.281 MeV
JEFF3.3 Threshold 17.279 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
18
38-Sr-90

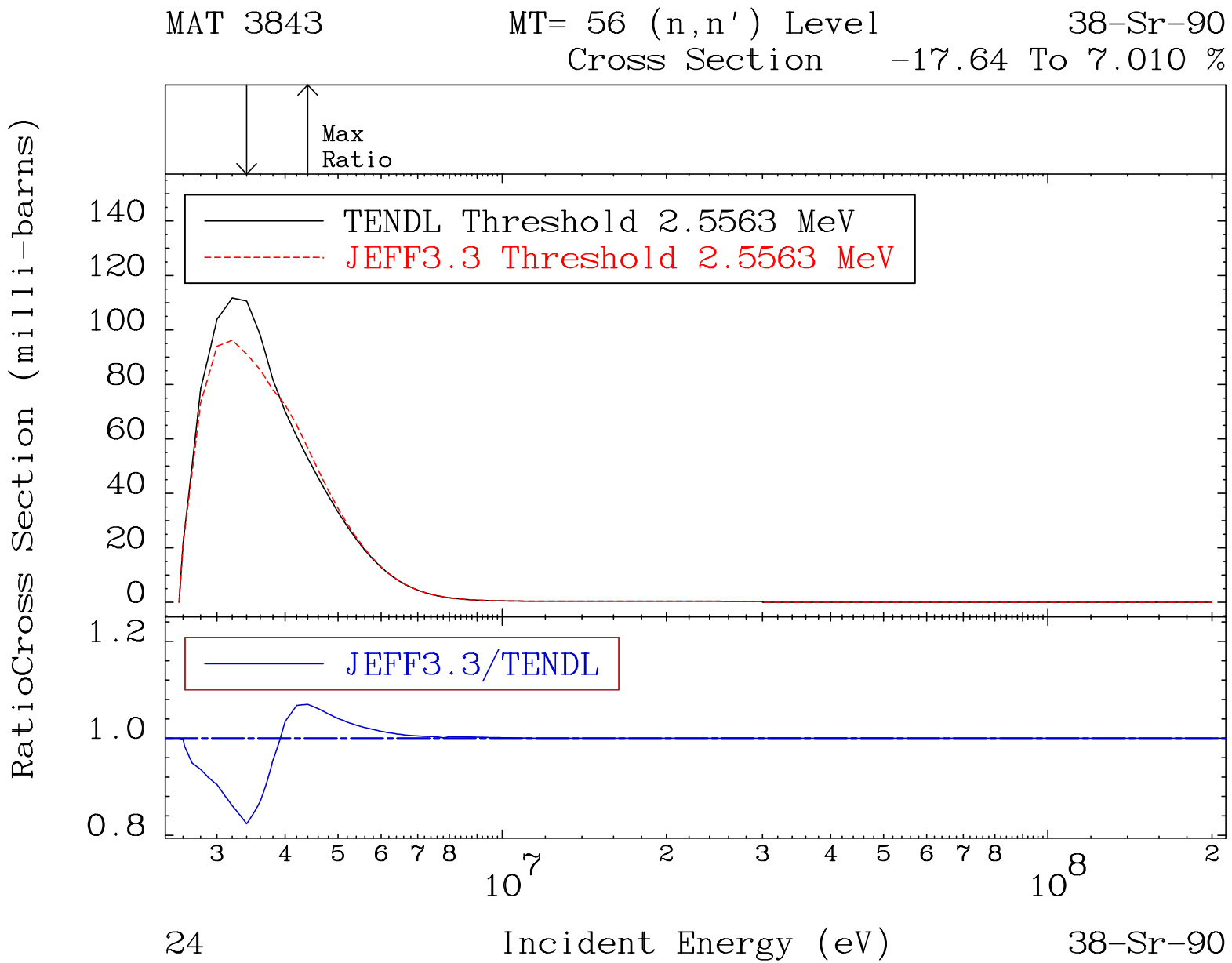

MAT 3843
MT= 51 (n,n') Level
38-Sr-90
Cross Section -100.0 To 3.621 %
Min Ratio
Max Ratio
TENDL Threshold 841.01 keV
JEFF3.3 Threshold 841.01 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
2
3
4
5
6
8
10^6
10^7
10^8
19
Incident Energy (eV)
38-Sr-90

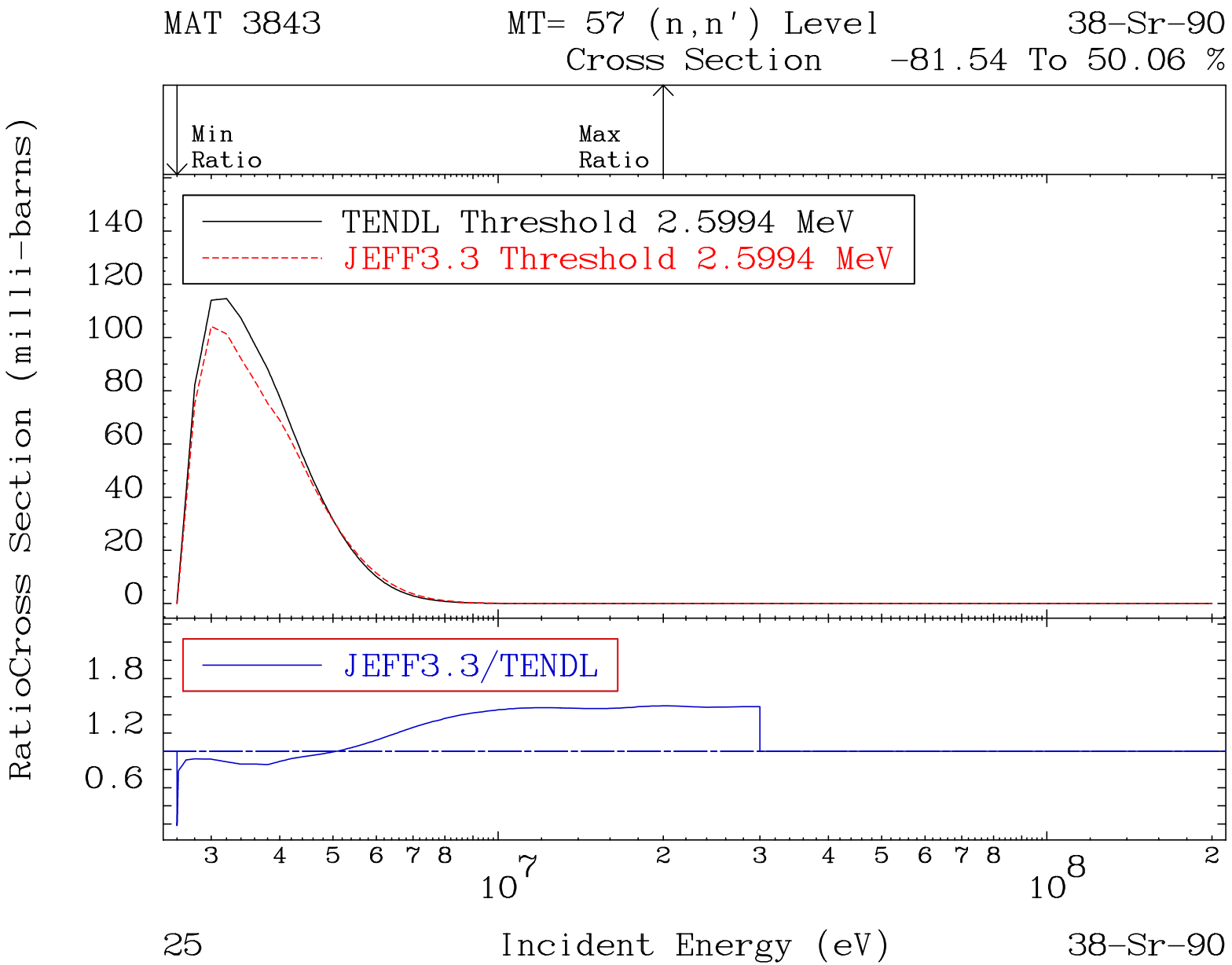

MAT 3843
MT= 52 (n,n') Level
38-Sr-90
Cross Section
-0.219 To 9.668 %
Min Ratio
Max Ratio
TENDL Threshold 1.6745 MeV
JEFF3.3 Threshold 1.6745 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.15
1.10
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
38-Sr-90

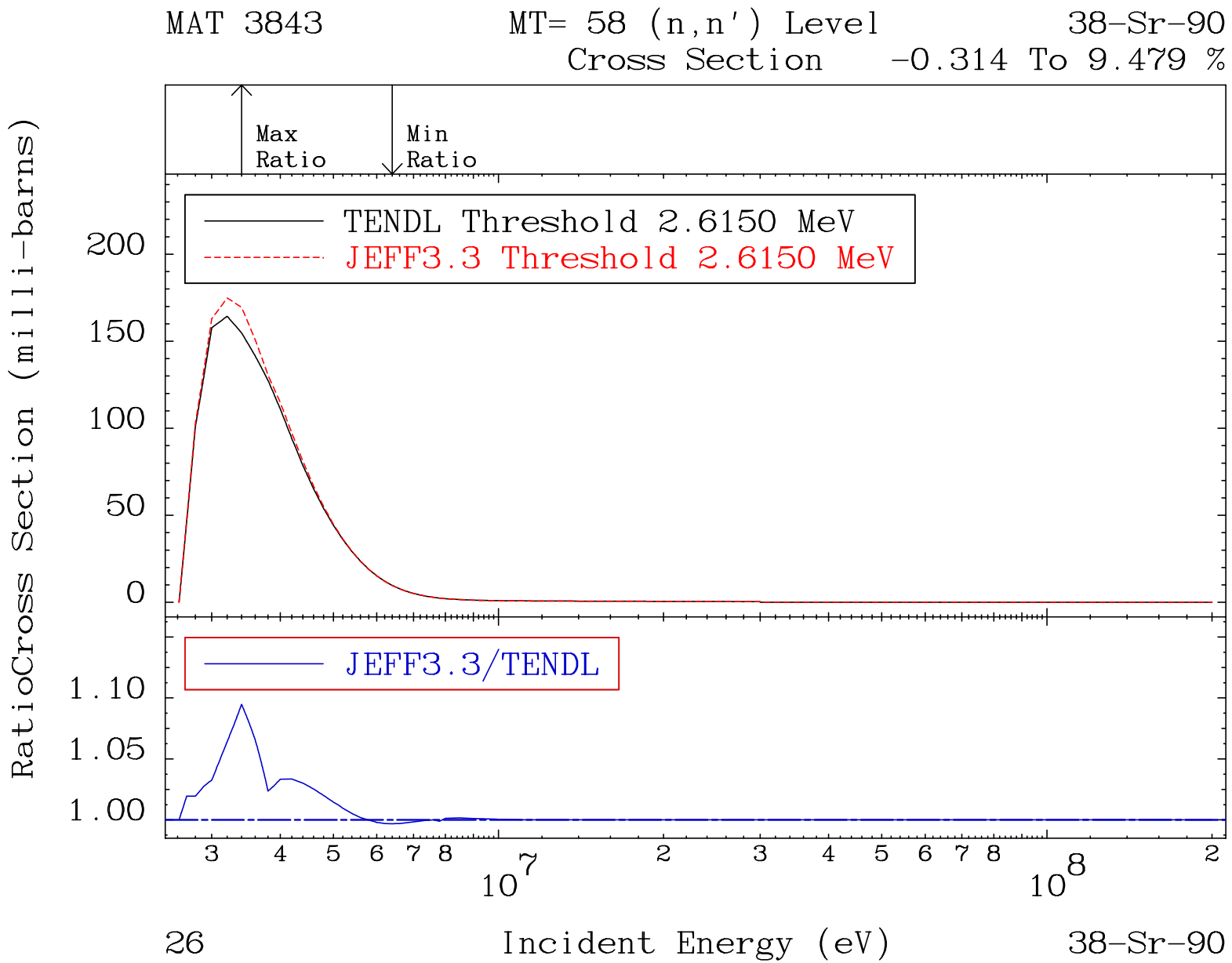

MAT 3843
MT= 53 (n,n') Level
38-Sr-90
Cross Section -0.229 To 6.711 %
Max Ratio
Min Ratio
TENDL Threshold 1.9136 MeV
JEFF3.3 Threshold 1.9136 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.10
1.05
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
38-Sr-90

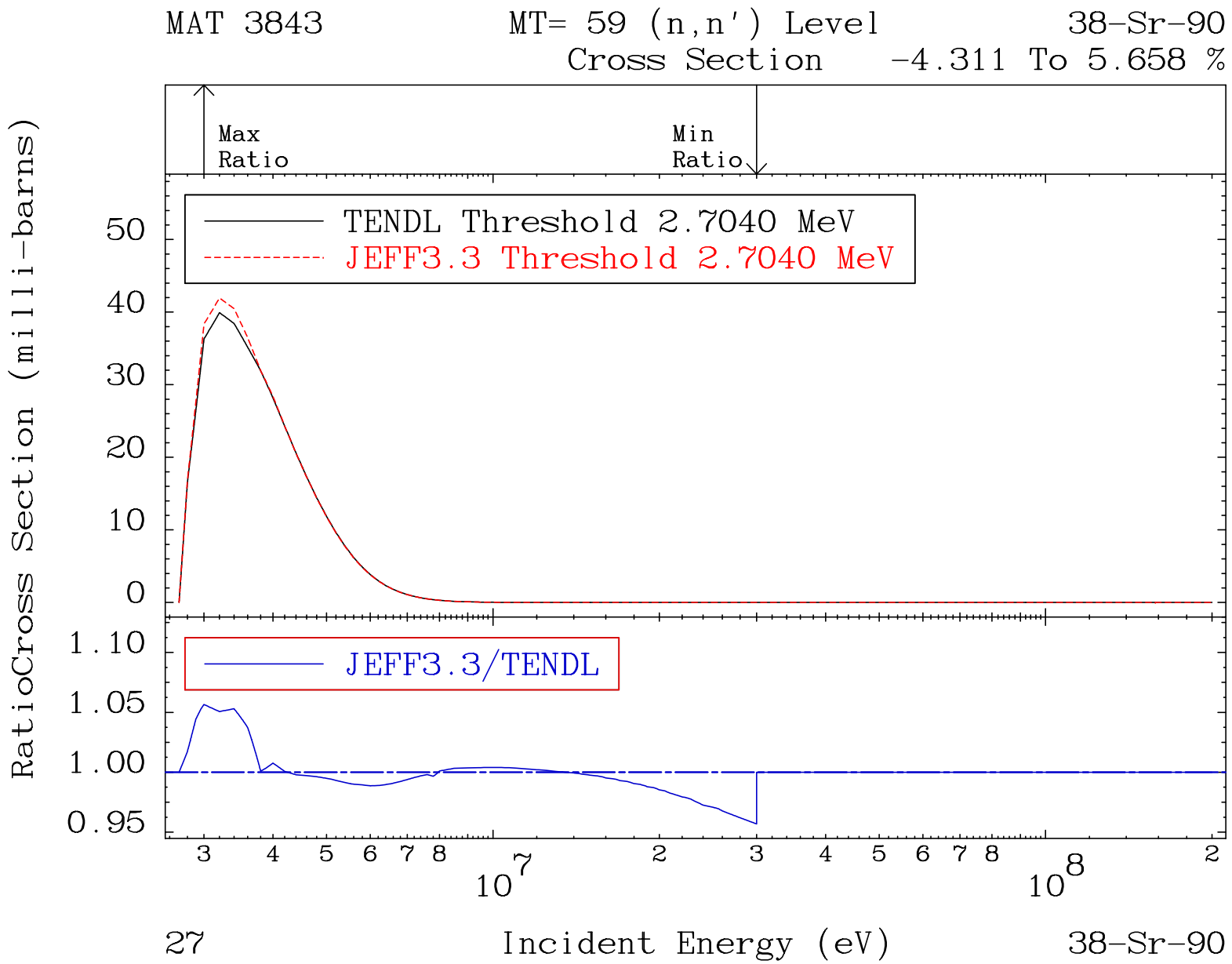

MAT 3843
MT= 54 (n,n') Level
38-Sr-90
Cross Section -14.78 To 5.203 %
Min Ratio
Max Ratio
TENDL Threshold 2.2318 MeV
JEFF3.3 Threshold 2.2318 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.1
1.0
0.9
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
38-Sr-90

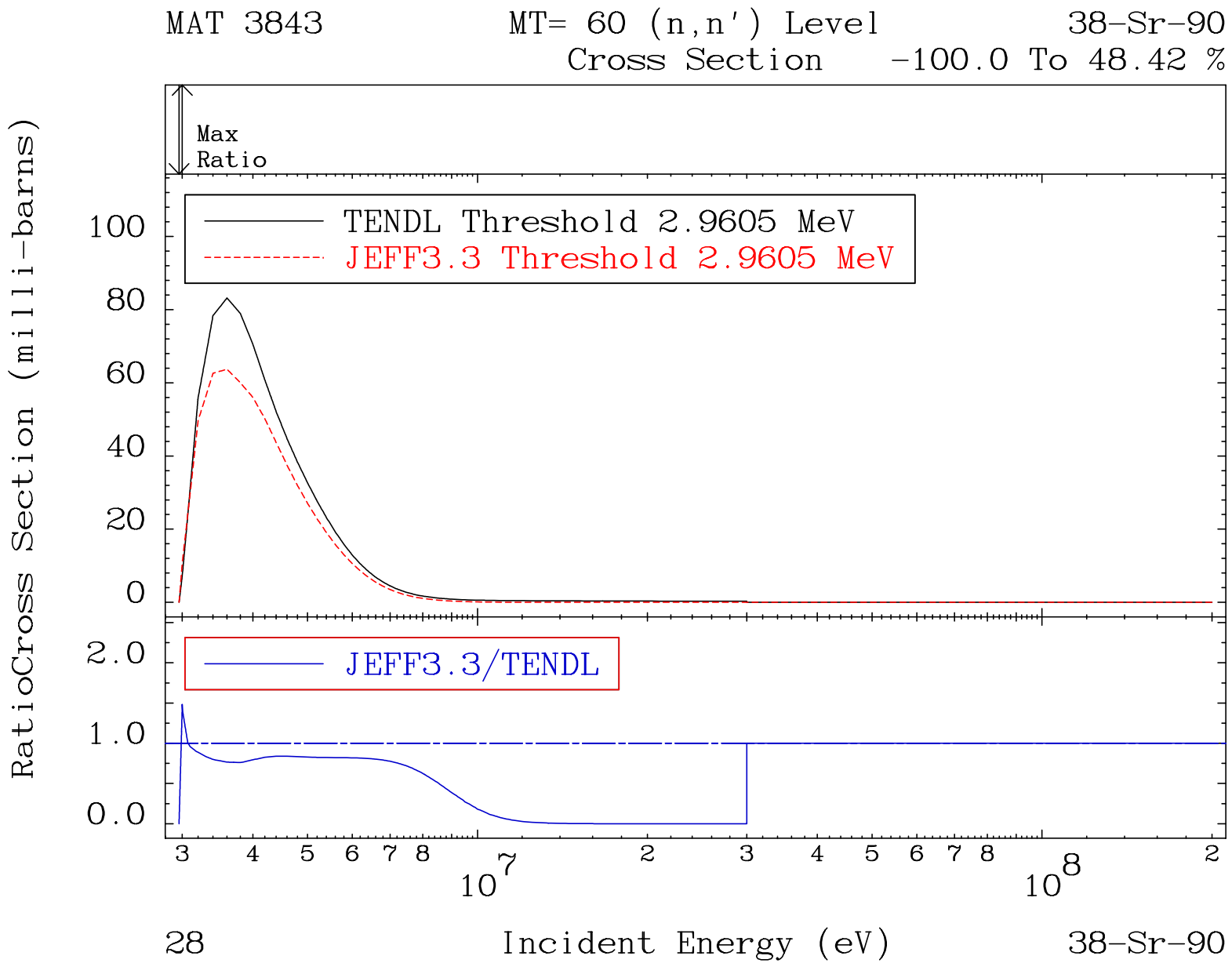

MAT 3843
MT= 55 (n,n') Level
38-Sr-90
Cross Section -100.0 To 9.013 %
Max
Ratio
TENDL Threshold 2.5253 MeV
JEFF3.3 Threshold 2.5253 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
38-Sr-90

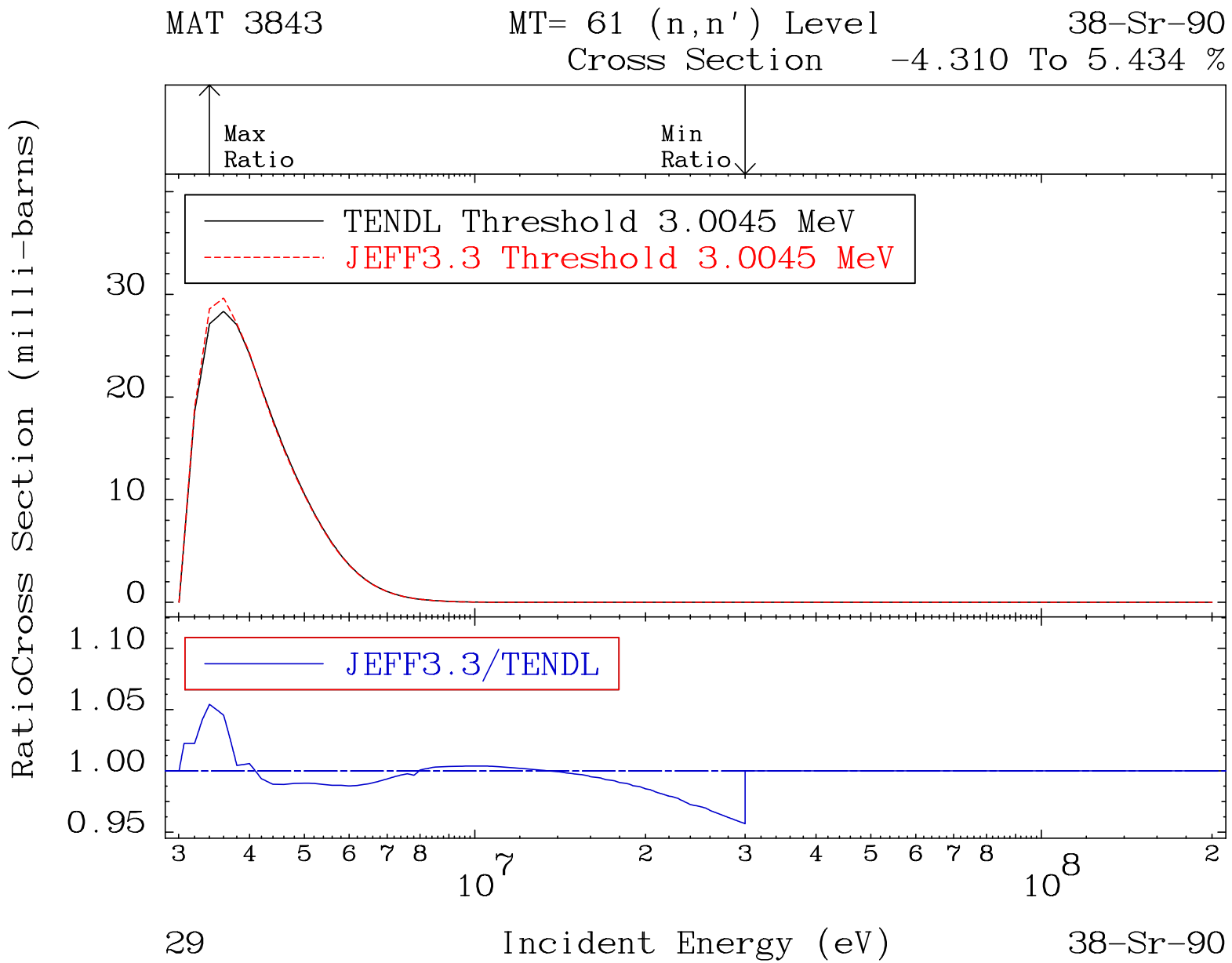

MAT 3843
MT= 56 (n,n') Level
38-Sr-90
Cross Section -17.64 To 7.010 %
Max
Ratio
TENDL Threshold 2.5563 MeV
JEFF3.3 Threshold 2.5563 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
1.0
0.8
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
38-Sr-90

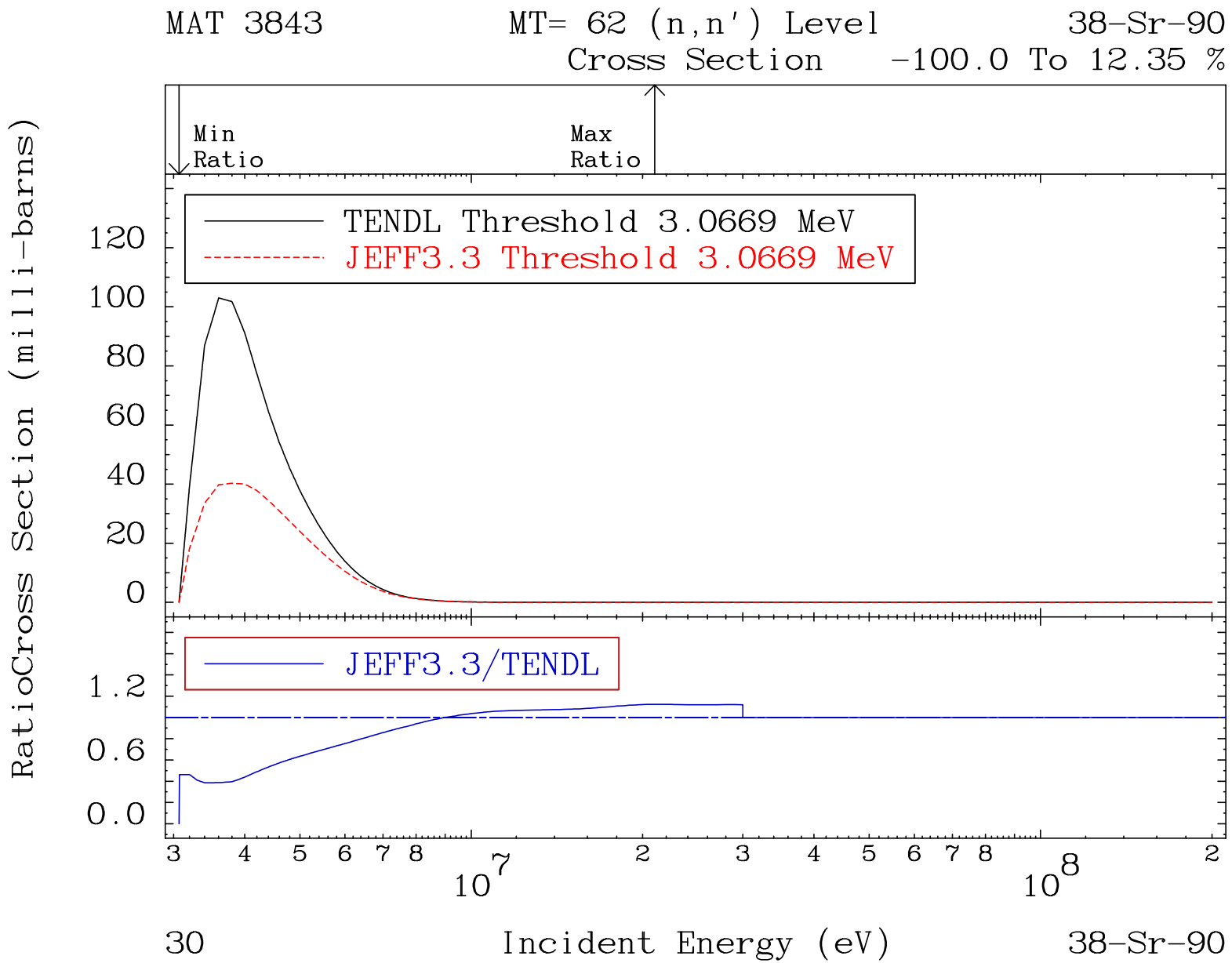

MAT 3843
MT= 57 (n,n') Level
38-Sr-90
Cross Section -81.54 To 50.06 %
Min Ratio
Max Ratio
TENDL Threshold 2.5994 MeV
JEFF3.3 Threshold 2.5994 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.8
1.2
0.6
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
38-Sr-90

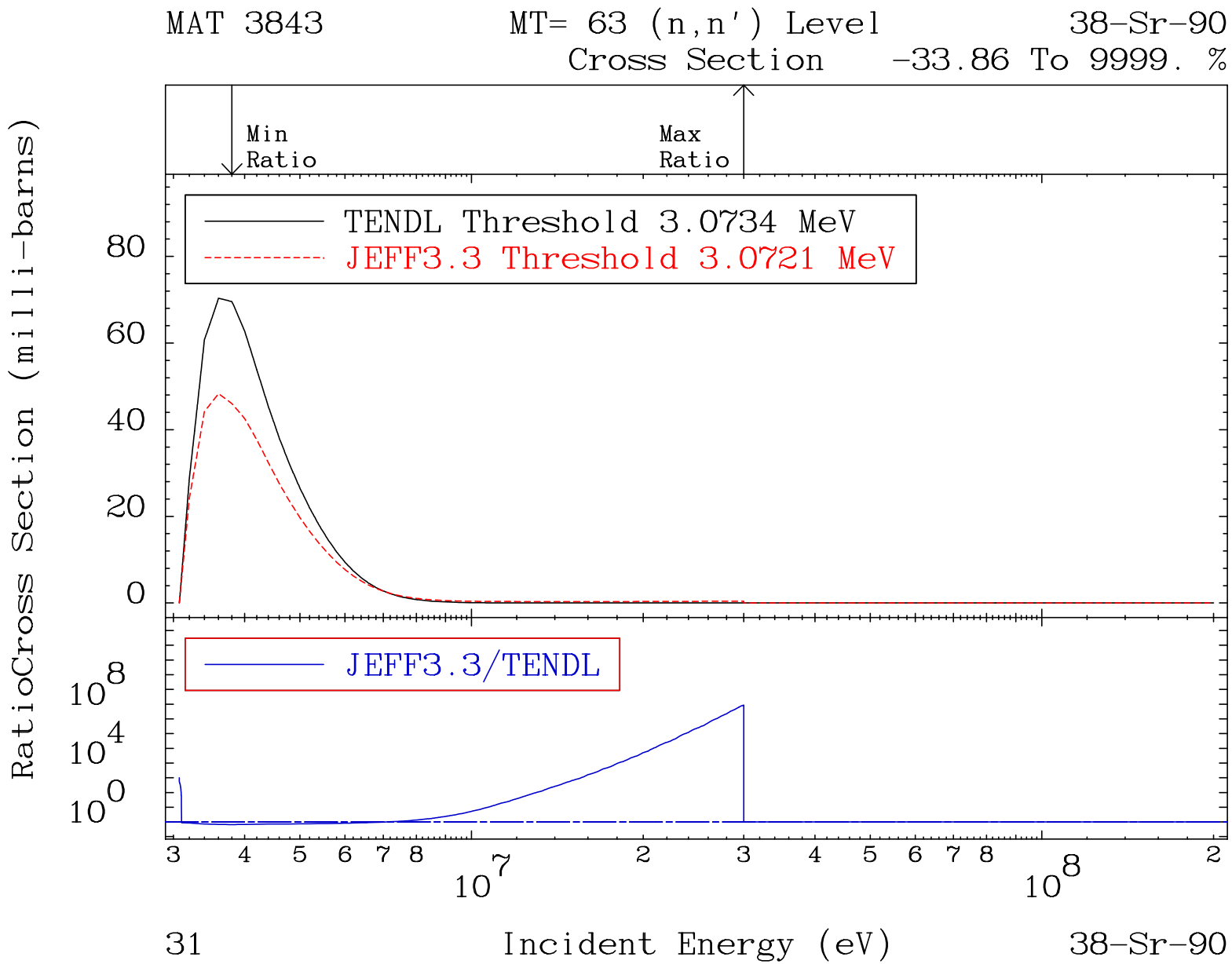

MAT 3843
MT= 58 (n,n') Level
38-Sr-90
Cross Section -0.314 To 9.479 %
Max Ratio
Min Ratio
TENDL Threshold 2.6150 MeV
JEFF3.3 Threshold 2.6150 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.10
1.05
1.00
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
38-Sr-90

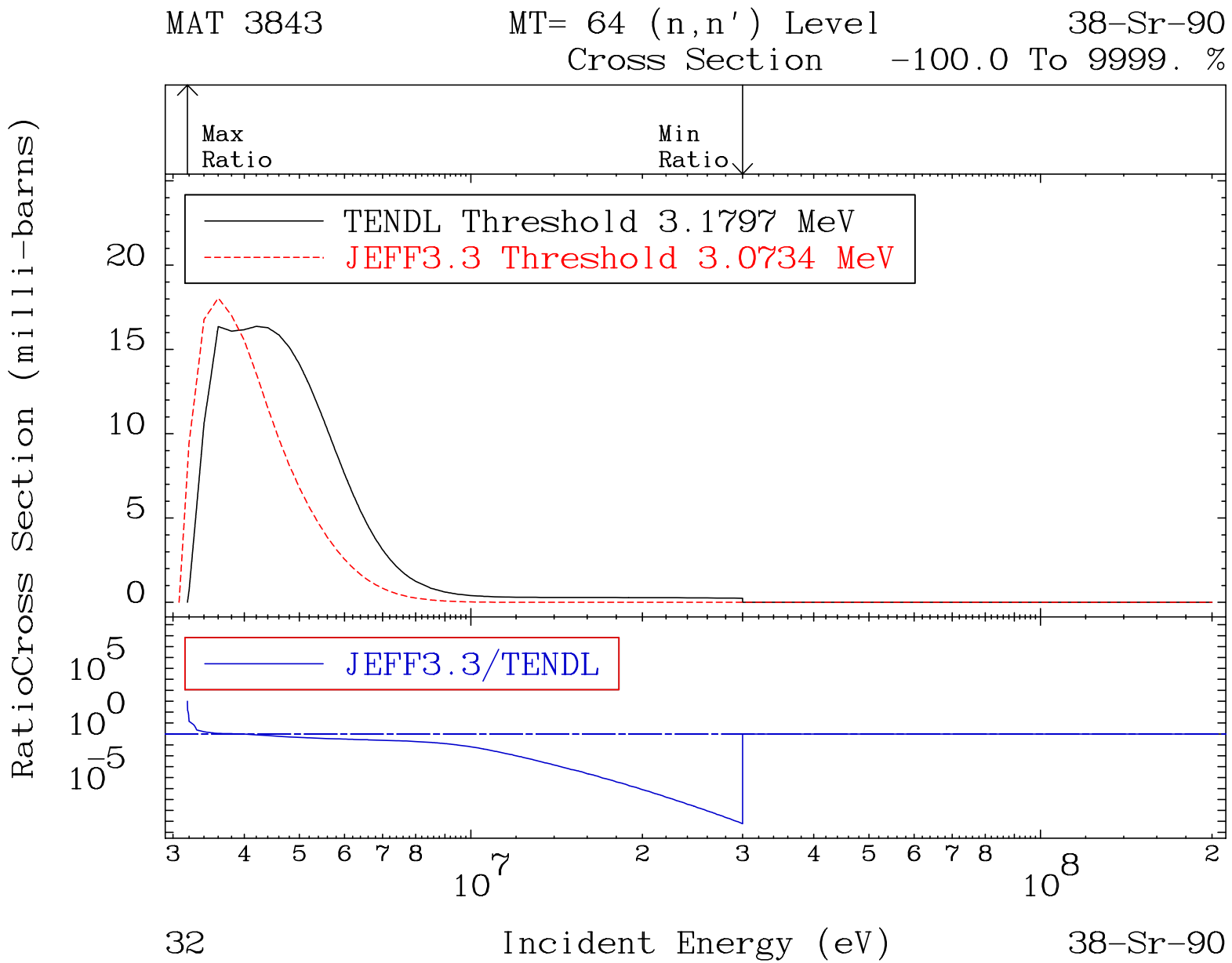

MAT 3843
MT= 59 (n,n') Level
38-Sr-90
Cross Section
-4.311 To 5.658 %
Max Ratio
Min Ratio
TENDL Threshold 2.7040 MeV
JEFF3.3 Threshold 2.7040 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.10
1.05
1.00
0.95
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
38-Sr-90

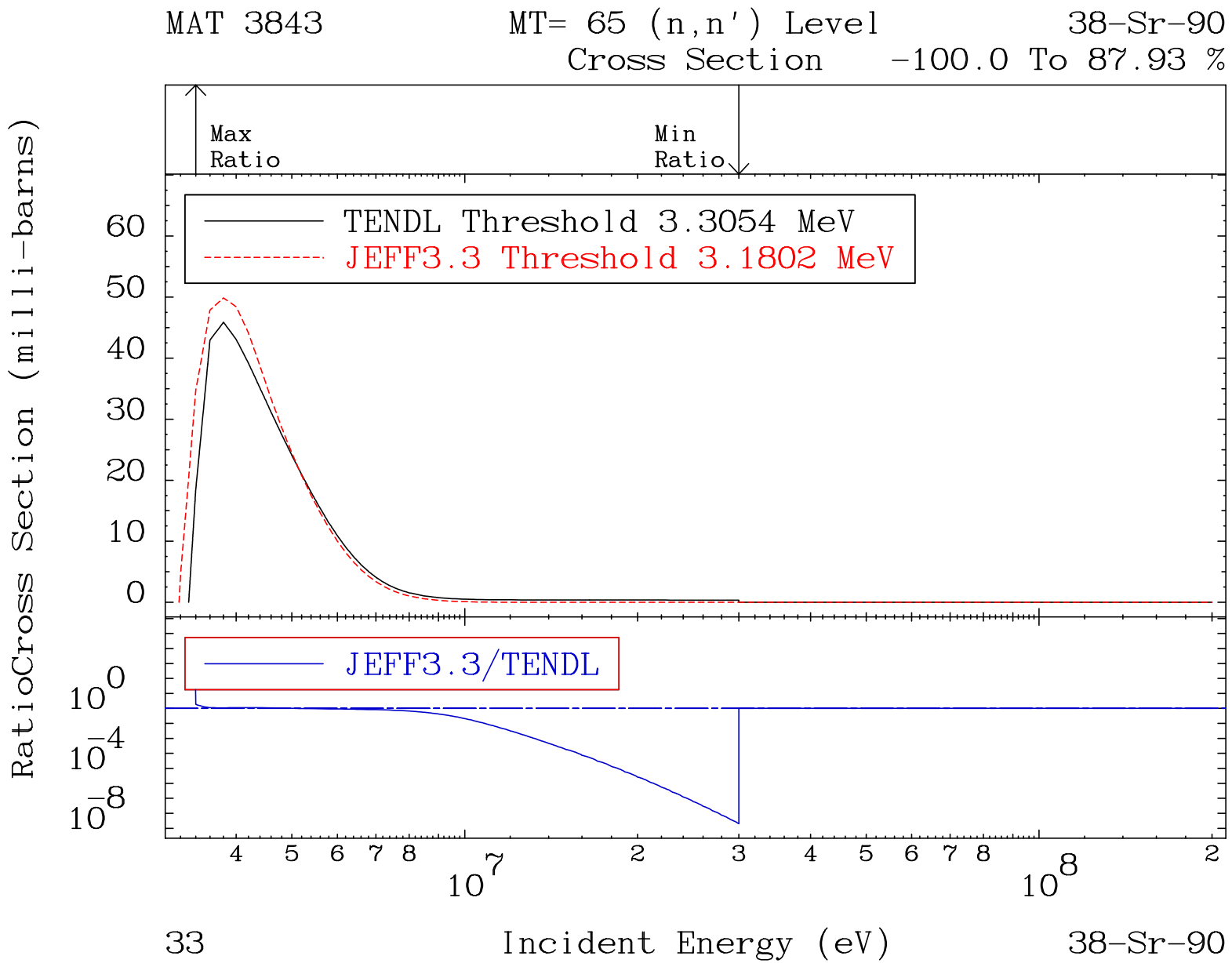

MAT 3843
MT= 60 (n,n') Level
38-Sr-90
Cross Section -100.0 To 48.42 %
Max
Ratio
TENDL Threshold 2.9605 MeV
JEFF3.3 Threshold 2.9605 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
38-Sr-90

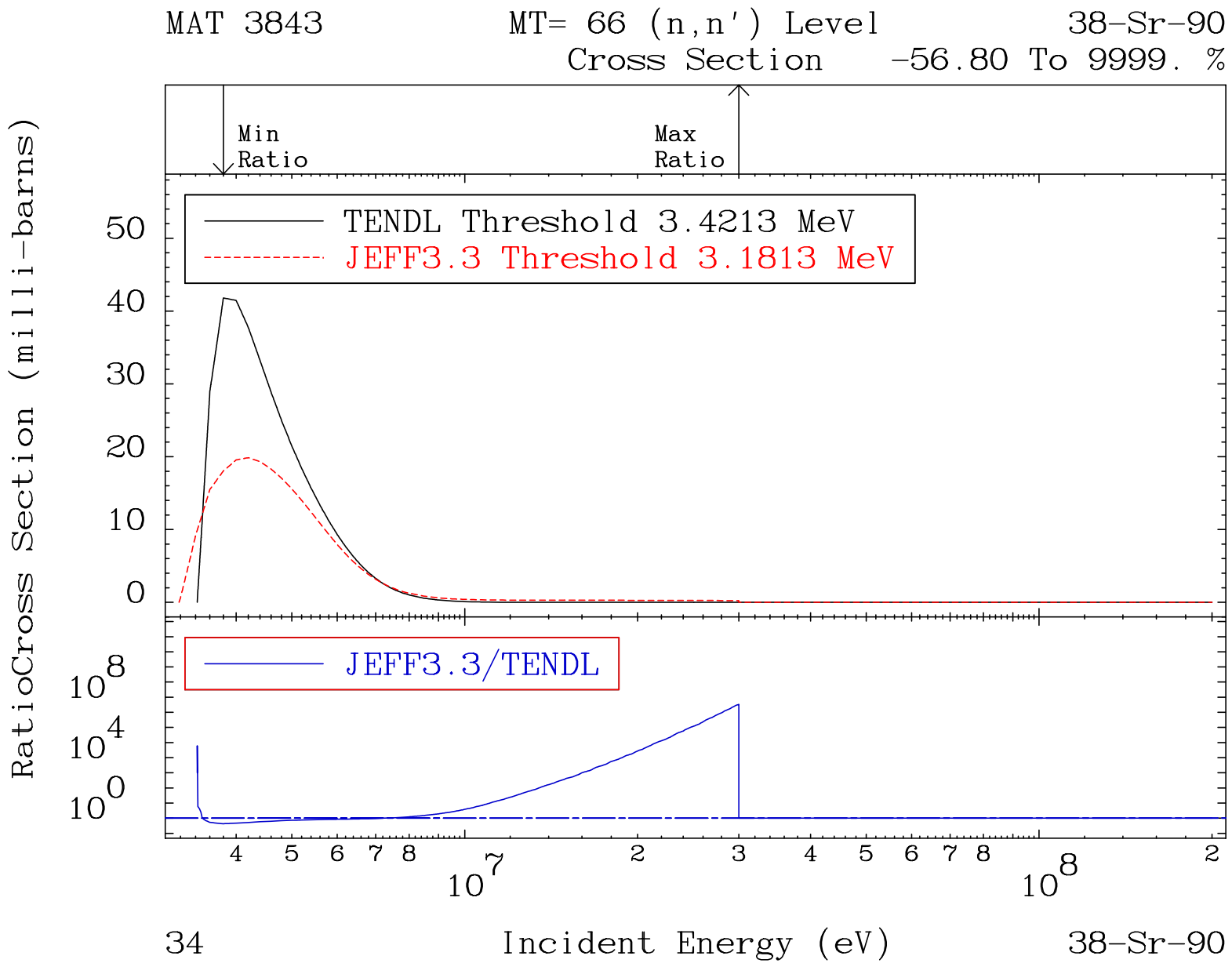

MAT 3843
MT= 61 (n,n') Level
38-Sr-90
Cross Section -4.310 To 5.434 %
Max Ratio
Min Ratio
TENDL Threshold 3.0045 MeV
JEFF3.3 Threshold 3.0045 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.10
1.05
1.00
0.95
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
38-Sr-90

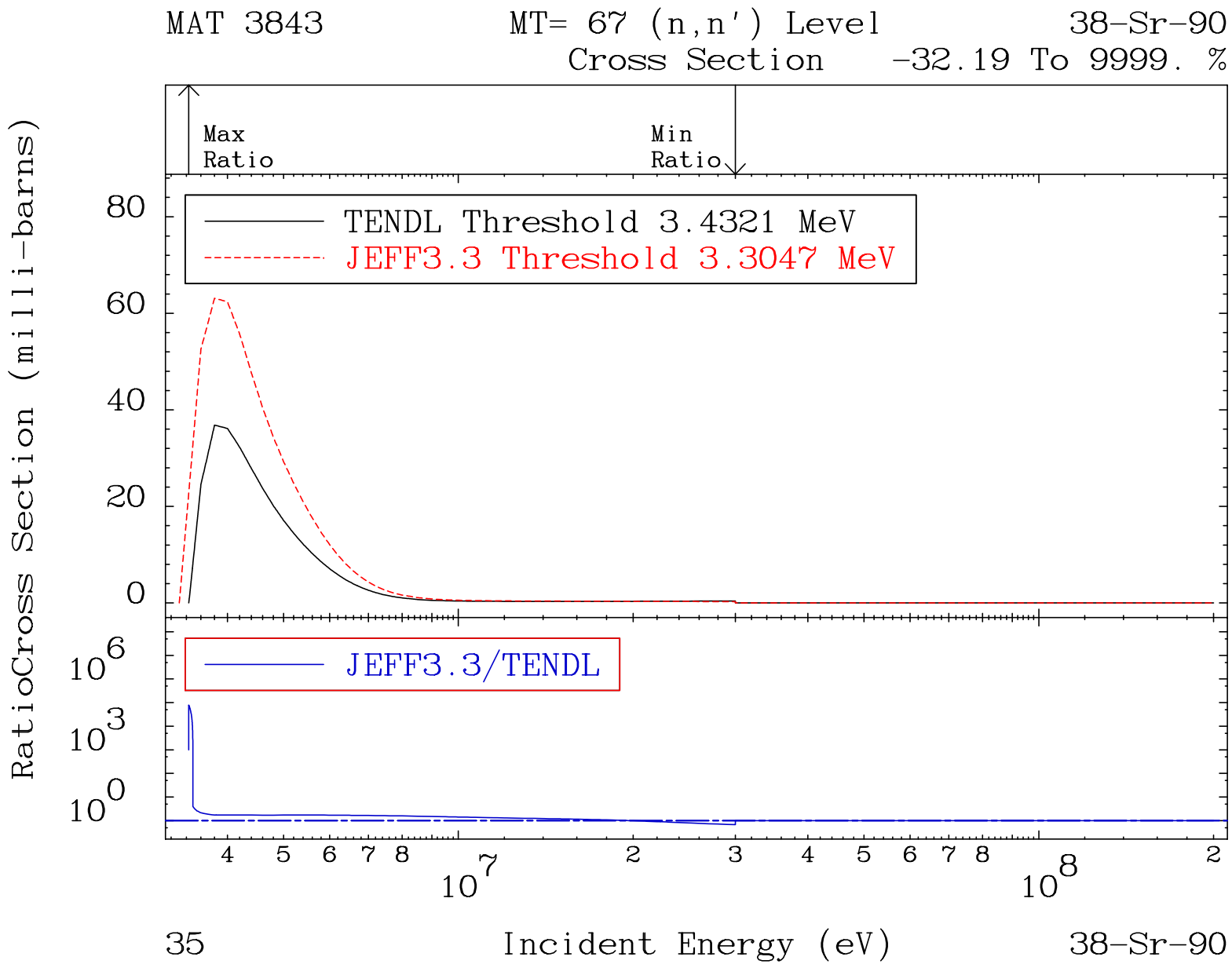

MAT 3843
MT= 62 (n,n') Level
38-Sr-90
Cross Section -100.0 To 12.35 %
Min Ratio
Max Ratio
TENDL Threshold 3.0669 MeV
JEFF3.3 Threshold 3.0669 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
38-Sr-90

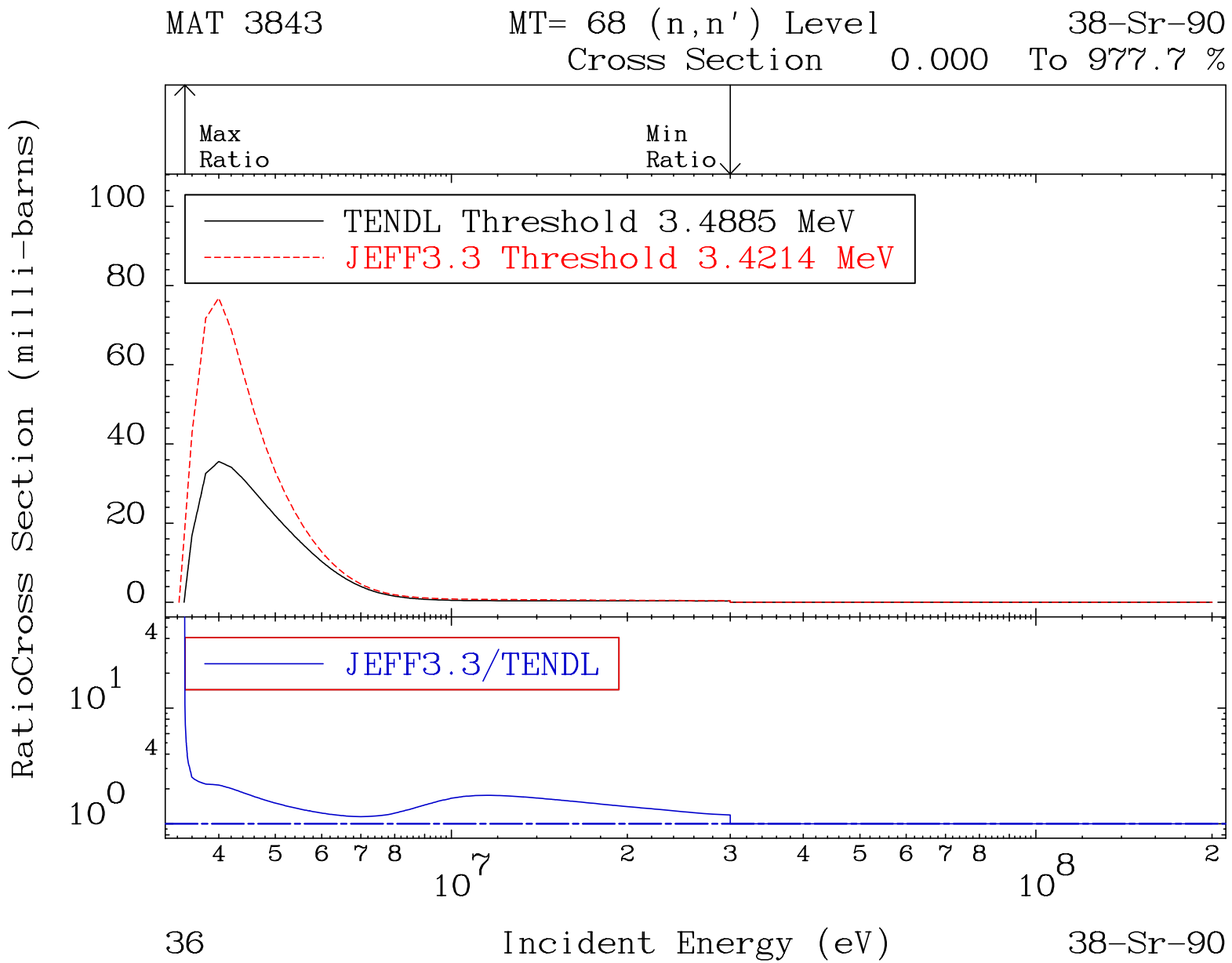

MAT 3843
MT= 63 (n,n') Level
38-Sr-90
Cross Section -33.86 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0734 MeV
JEFF3.3 Threshold 3.0721 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^8
10^4
10^0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
38-Sr-90

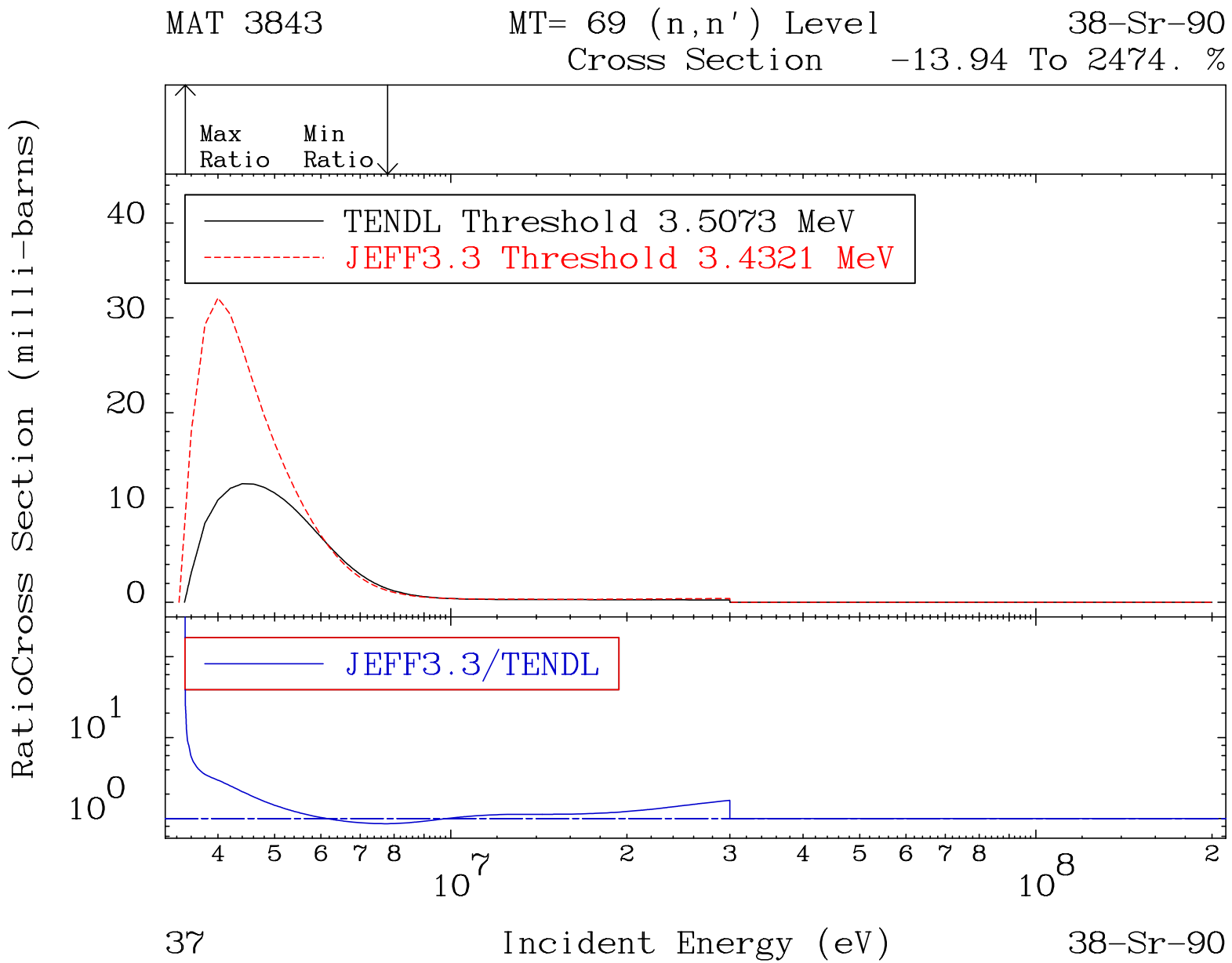

MAT 3843
MT= 64 (n,n') Level
38-Sr-90
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1797 MeV
JEFF3.3 Threshold 3.0734 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^5
10^0
10^-5
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
38-Sr-90

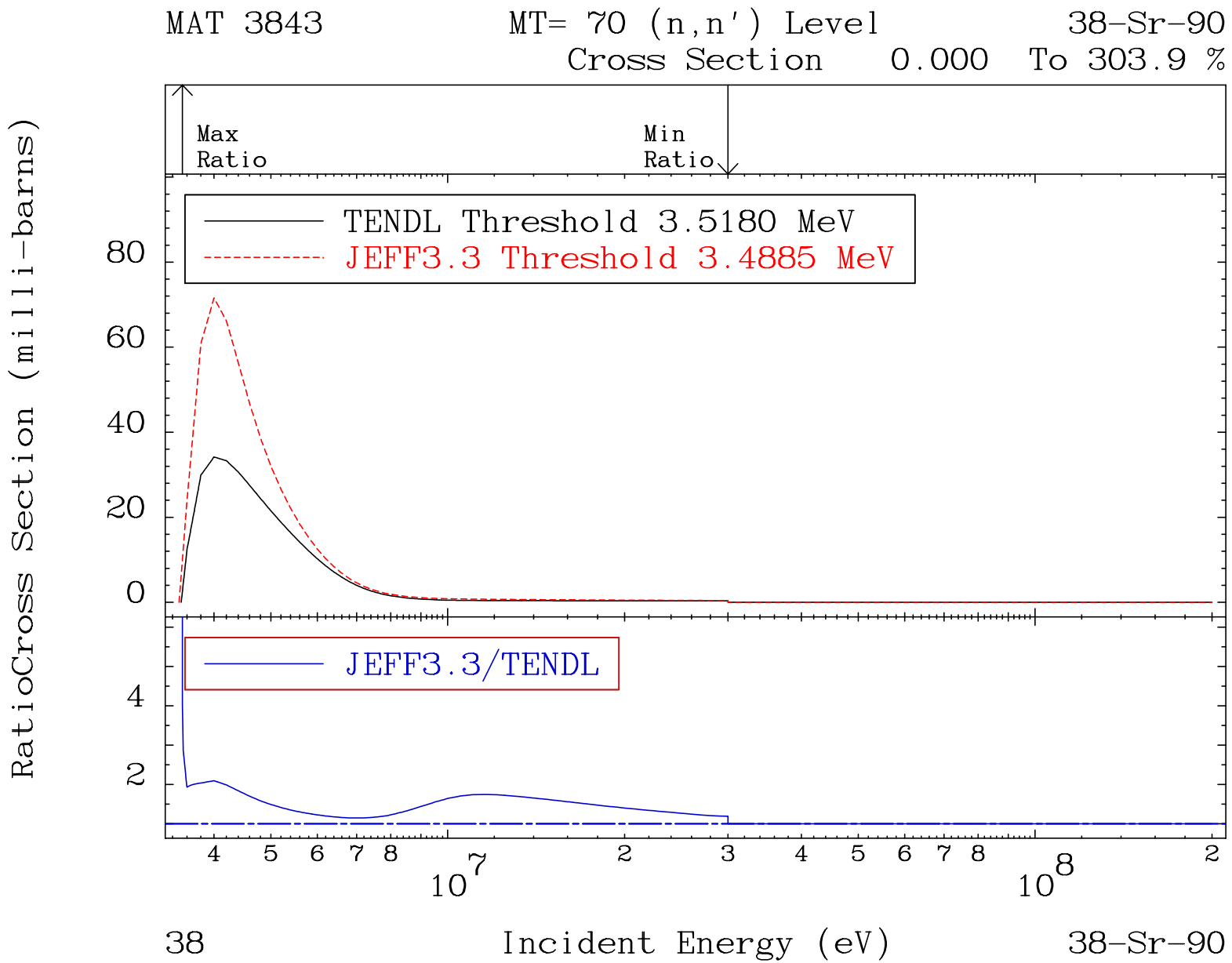

MAT 3843
MT= 65 (n,n') Level
38-Sr-90
Cross Section -100.0 To 87.93 %
Max Ratio
Min Ratio
TENDL Threshold 3.3054 MeV
JEFF3.3 Threshold 3.1802 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^{0}
10^{-4}
10^{-8}
4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
33
Incident Energy (eV)
38-Sr-90

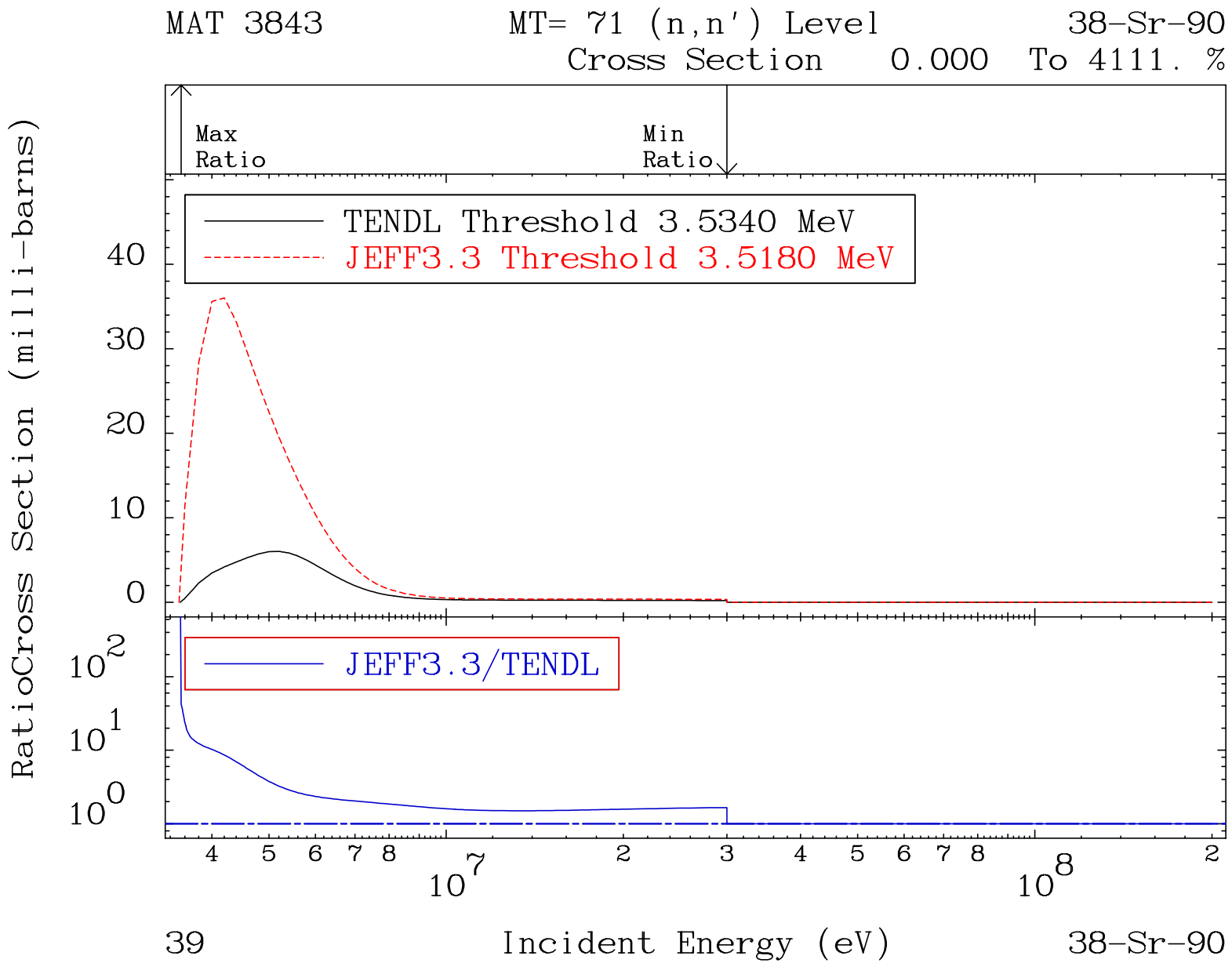

MAT 3843
MT= 66 (n,n') Level
38-Sr-90
Cross Section -56.80 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.4213 MeV
JEFF3.3 Threshold 3.1813 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^8
10^4
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
38-Sr-90

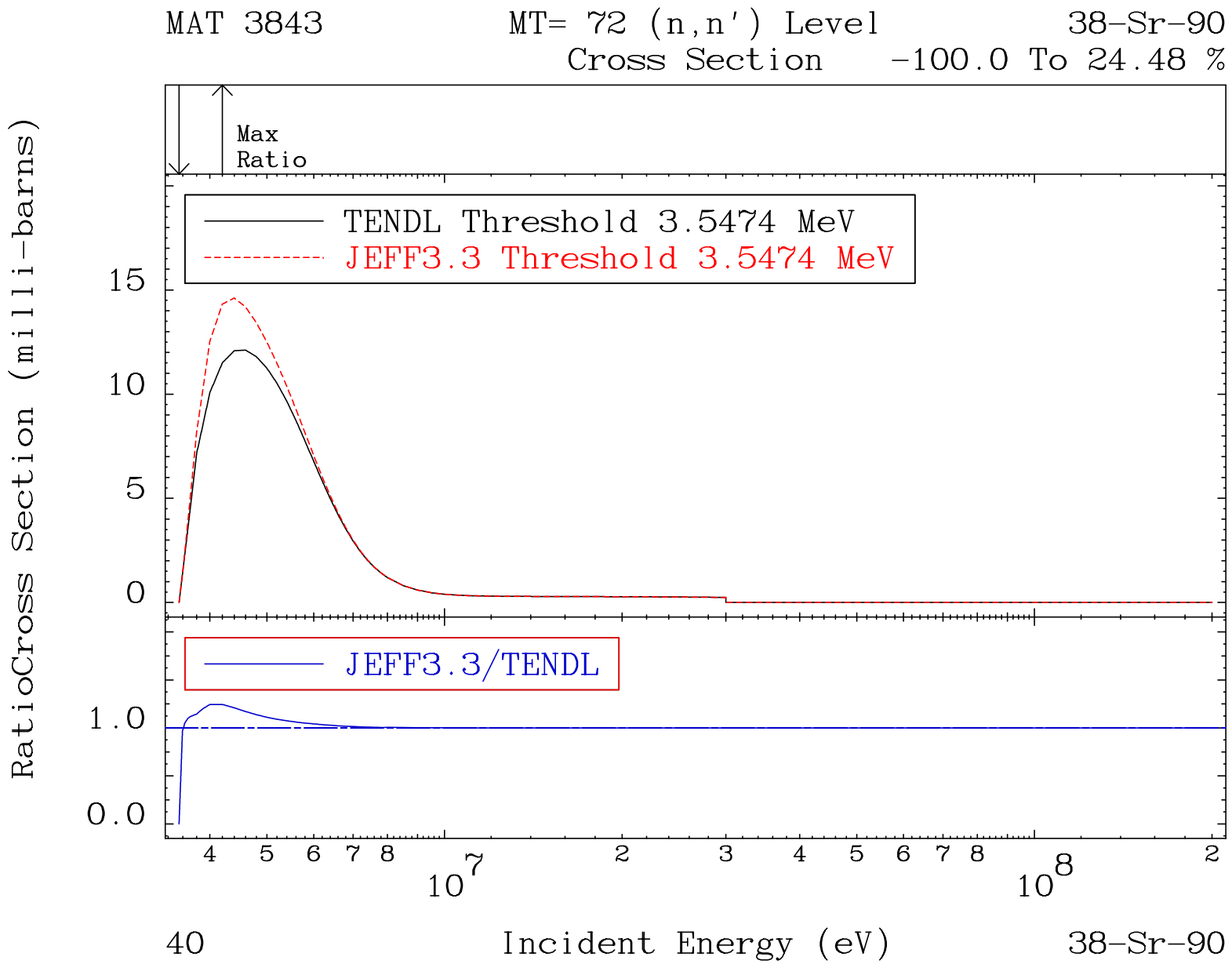

MAT 3843
MT= 67 (n,n') Level
38-Sr-90
Cross Section -32.19 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4321 MeV
JEFF3.3 Threshold 3.3047 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^6
10^3
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
38-Sr-90

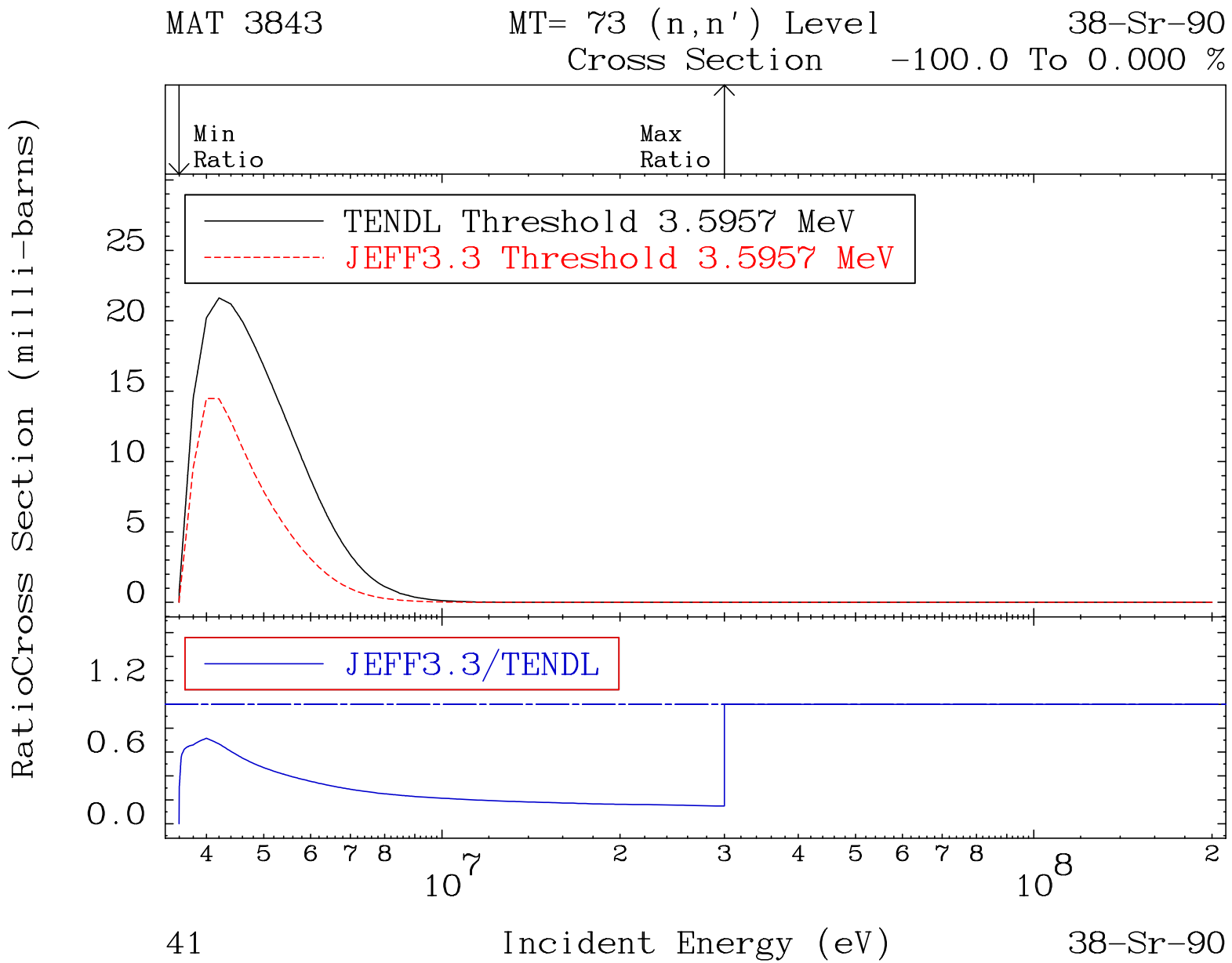

MAT 3843
MT= 68 (n,n') Level
38-Sr-90
Cross Section 0.000 To 977.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.4885 MeV
JEFF3.3 Threshold 3.4214 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
38-Sr-90

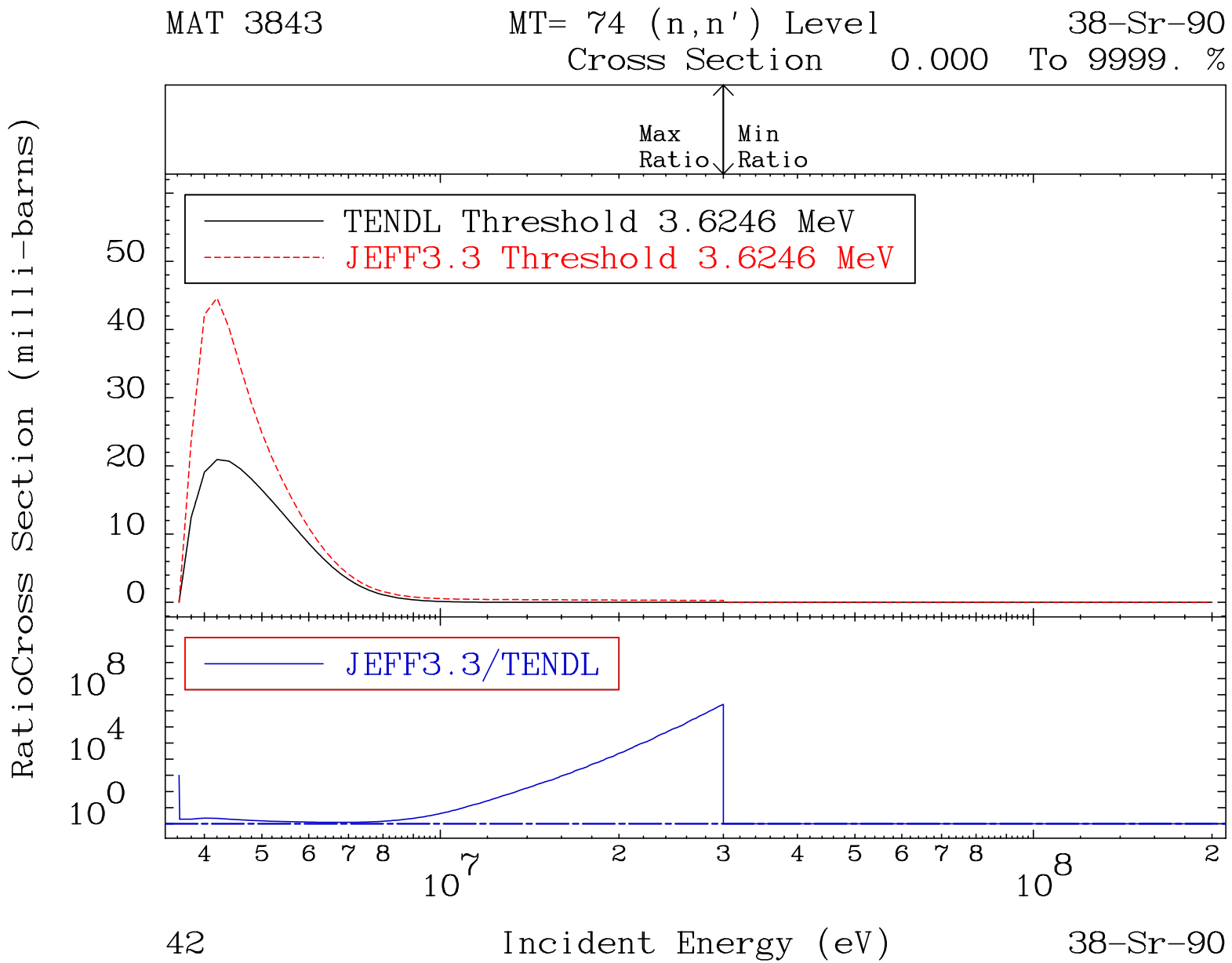

MAT 3843
MT= 69 (n,n') Level
38-Sr-90
Cross Section -13.94 To 2474. %
Max Ratio
Min Ratio
TENDL Threshold 3.5073 MeV
JEFF3.3 Threshold 3.4321 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^1
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
38-Sr-90

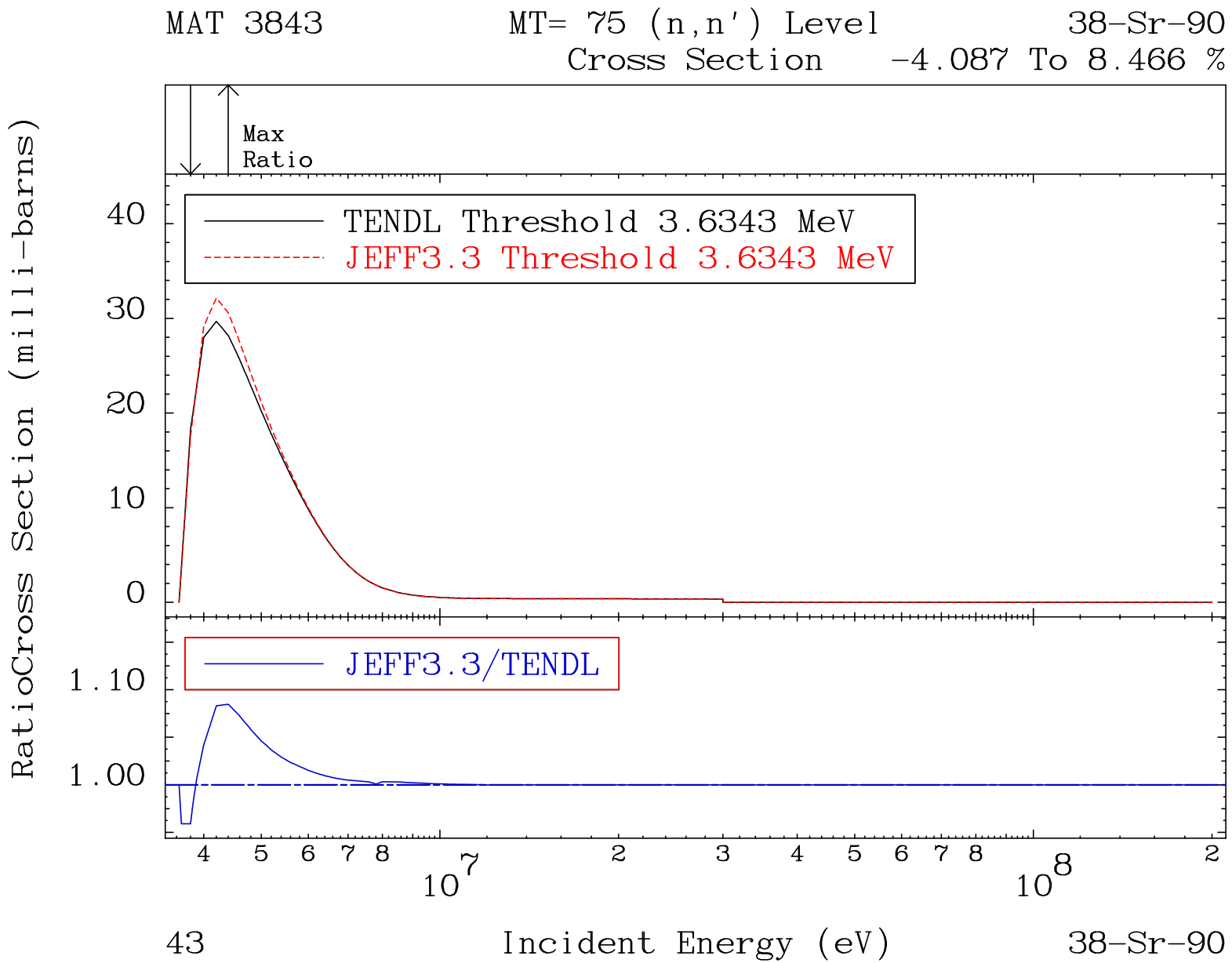

MAT 3843
MT= 70 (n,n') Level
38-Sr-90
Cross Section 0.000 To 303.9 %
Max Ratio
Min Ratio
TENDL Threshold 3.5180 MeV
JEFF3.3 Threshold 3.4885 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
38-Sr-90

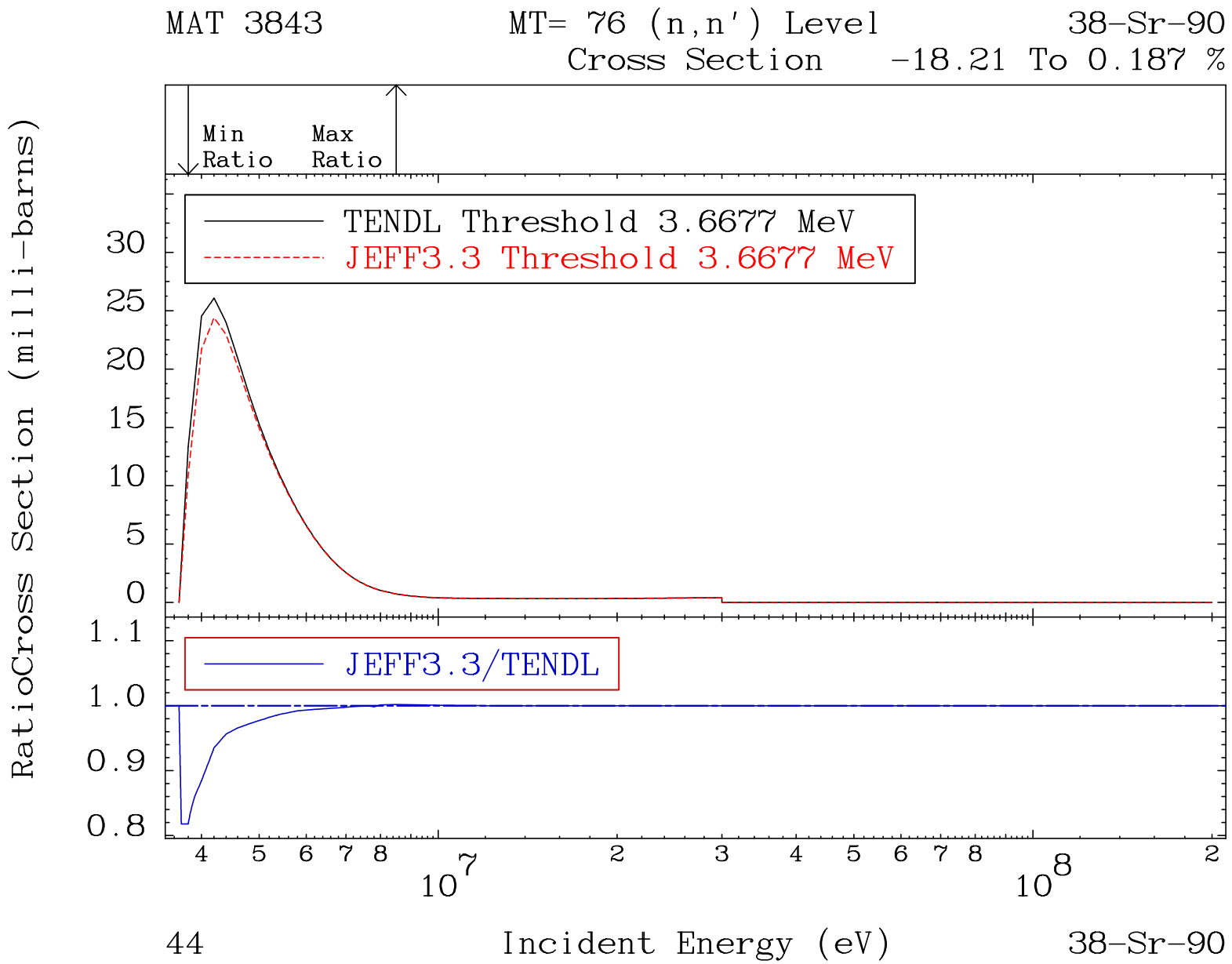

MAT 3843
MT= 71 (n,n') Level
38-Sr-90
Cross Section 0.000 To 4111. %
Max Ratio
Min Ratio
TENDL Threshold 3.5340 MeV
JEFF3.3 Threshold 3.5180 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
39
38-Sr-90

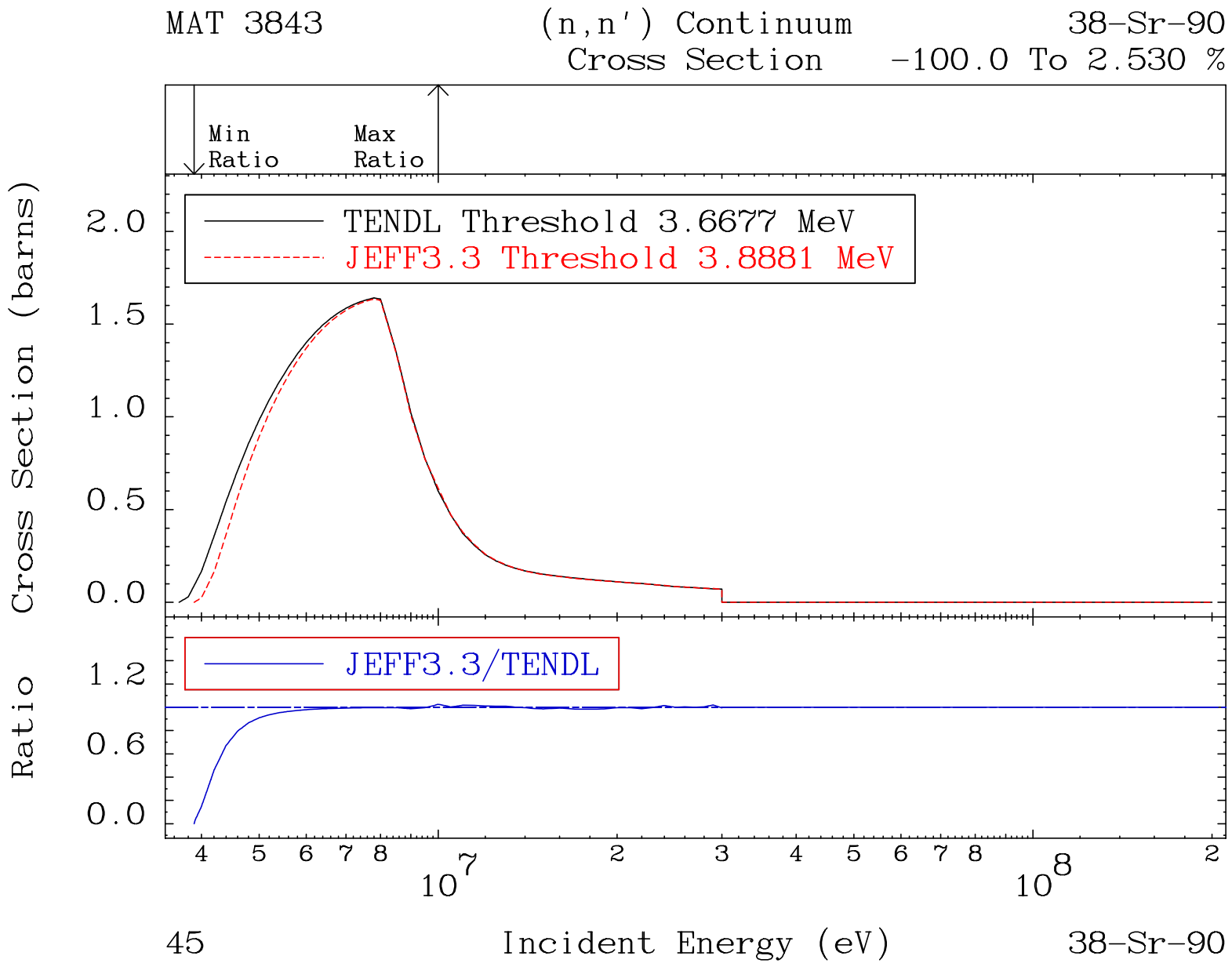

MAT 3843
MT= 72 (n,n') Level
38-Sr-90
Cross Section -100.0 To 24.48 %
Max
Ratio
TENDL Threshold 3.5474 MeV
JEFF3.3 Threshold 3.5474 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
15
10
5
0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
38-Sr-90

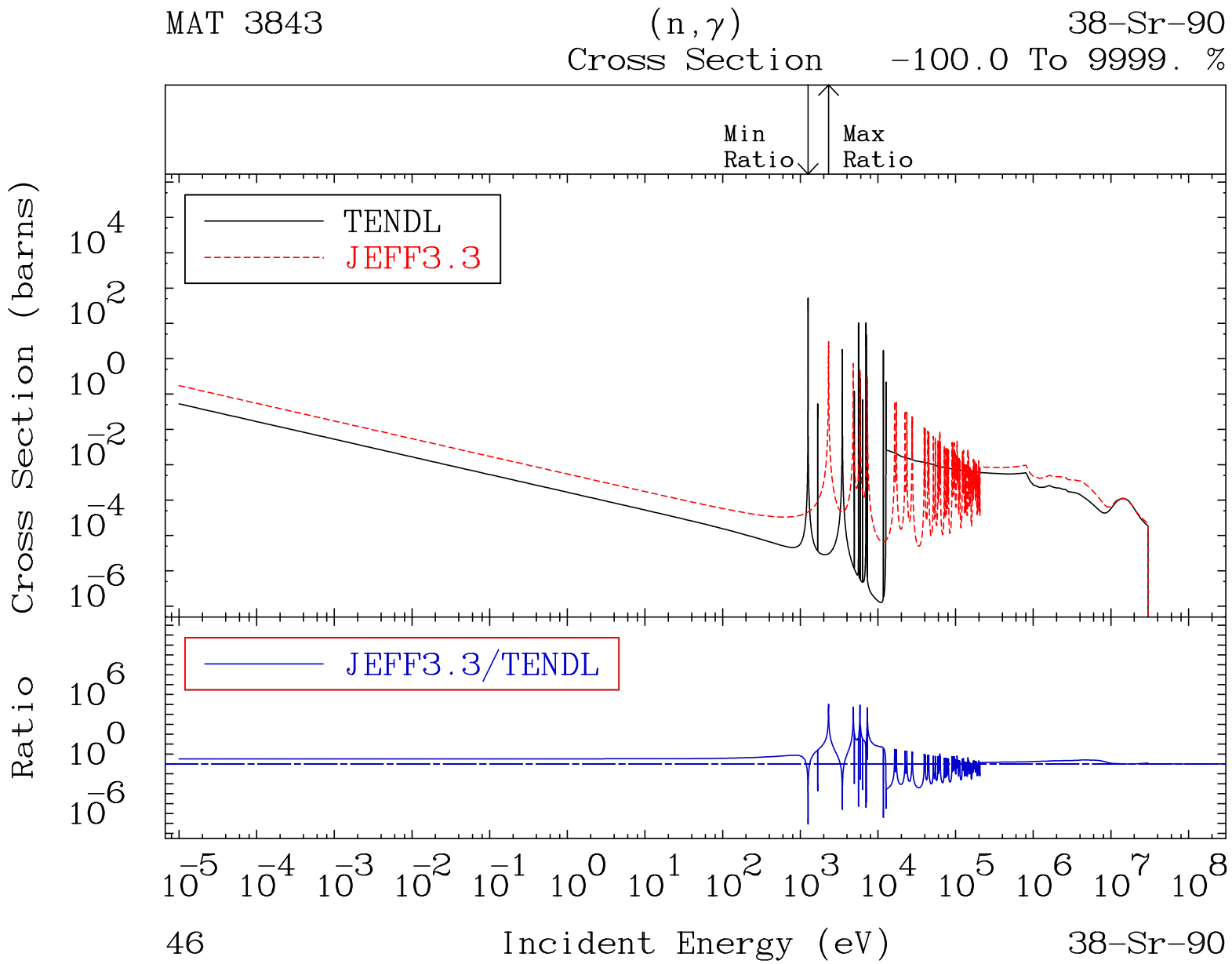

MAT 3843
MT= 73 (n,n') Level
38-Sr-90
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.5957 MeV
JEFF3.3 Threshold 3.5957 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
38-Sr-90

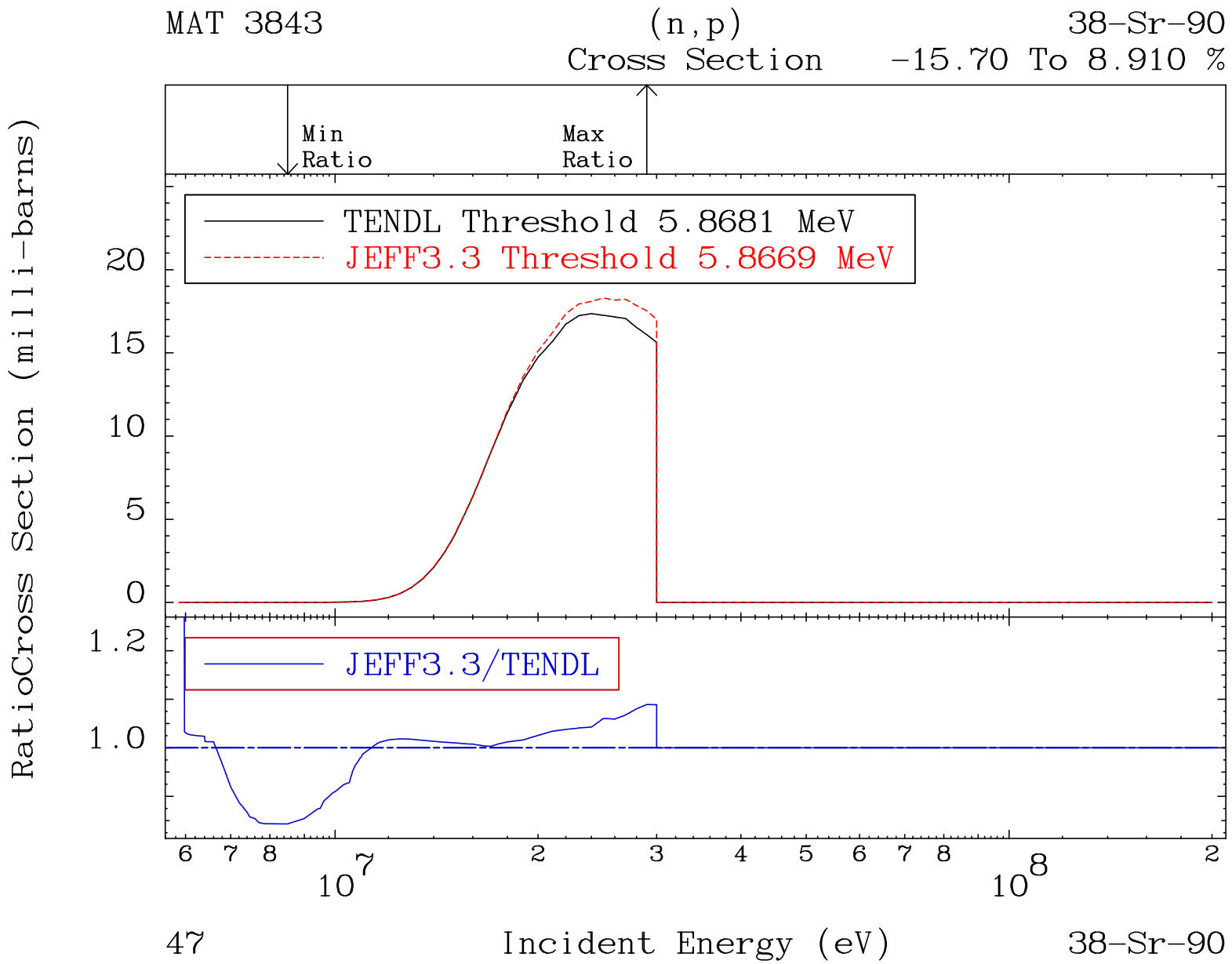

MAT 3843
MT= 74 (n,n') Level
38-Sr-90
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.6246 MeV
JEFF3.3 Threshold 3.6246 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^8
10^4
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
38-Sr-90

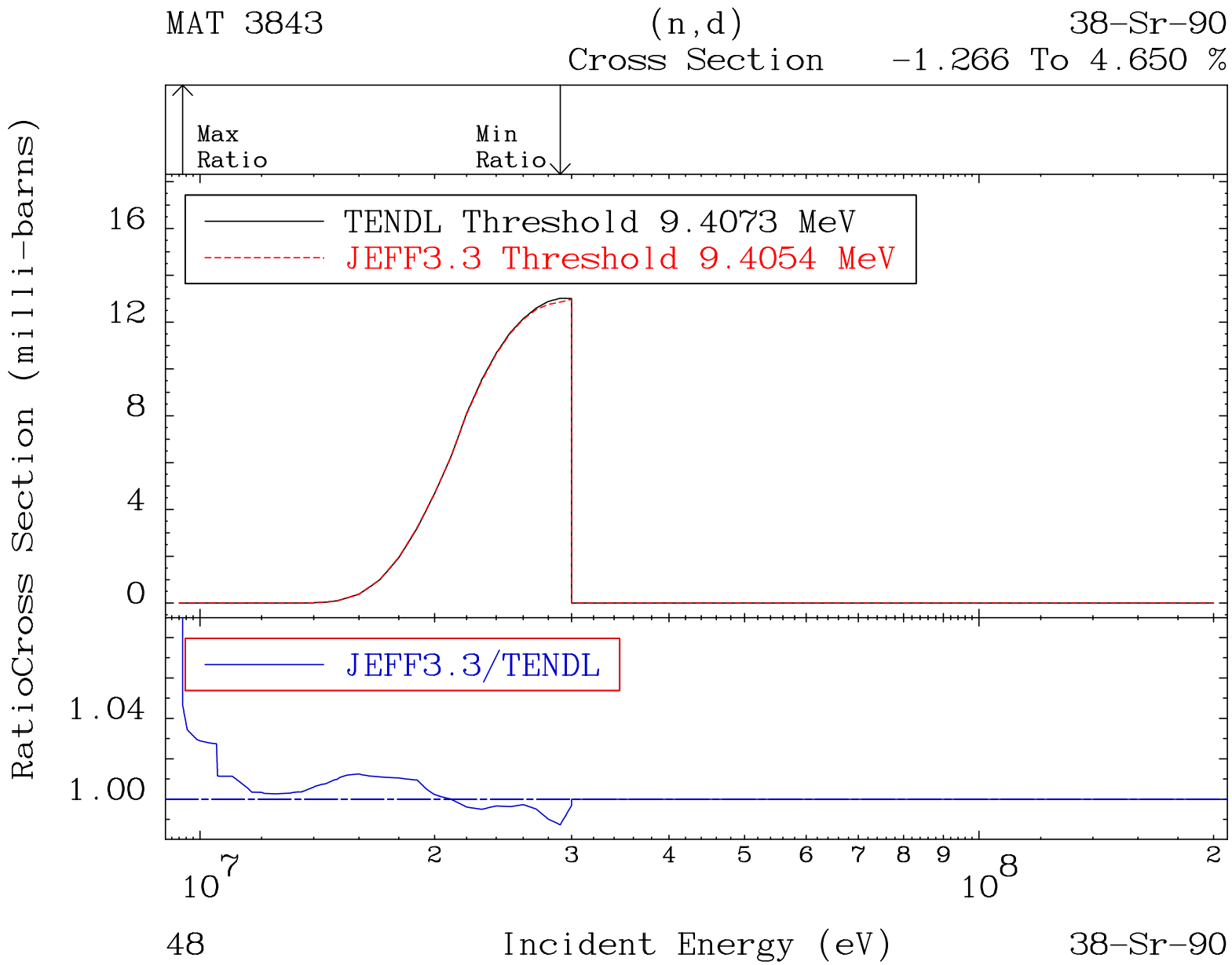

MAT 3843
MT= 75 (n,n') Level
38-Sr-90
Cross Section -4.087 To 8.466 %
Max
Ratio
TENDL Threshold 3.6343 MeV
JEFF3.3 Threshold 3.6343 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.10
1.00
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
38-Sr-90

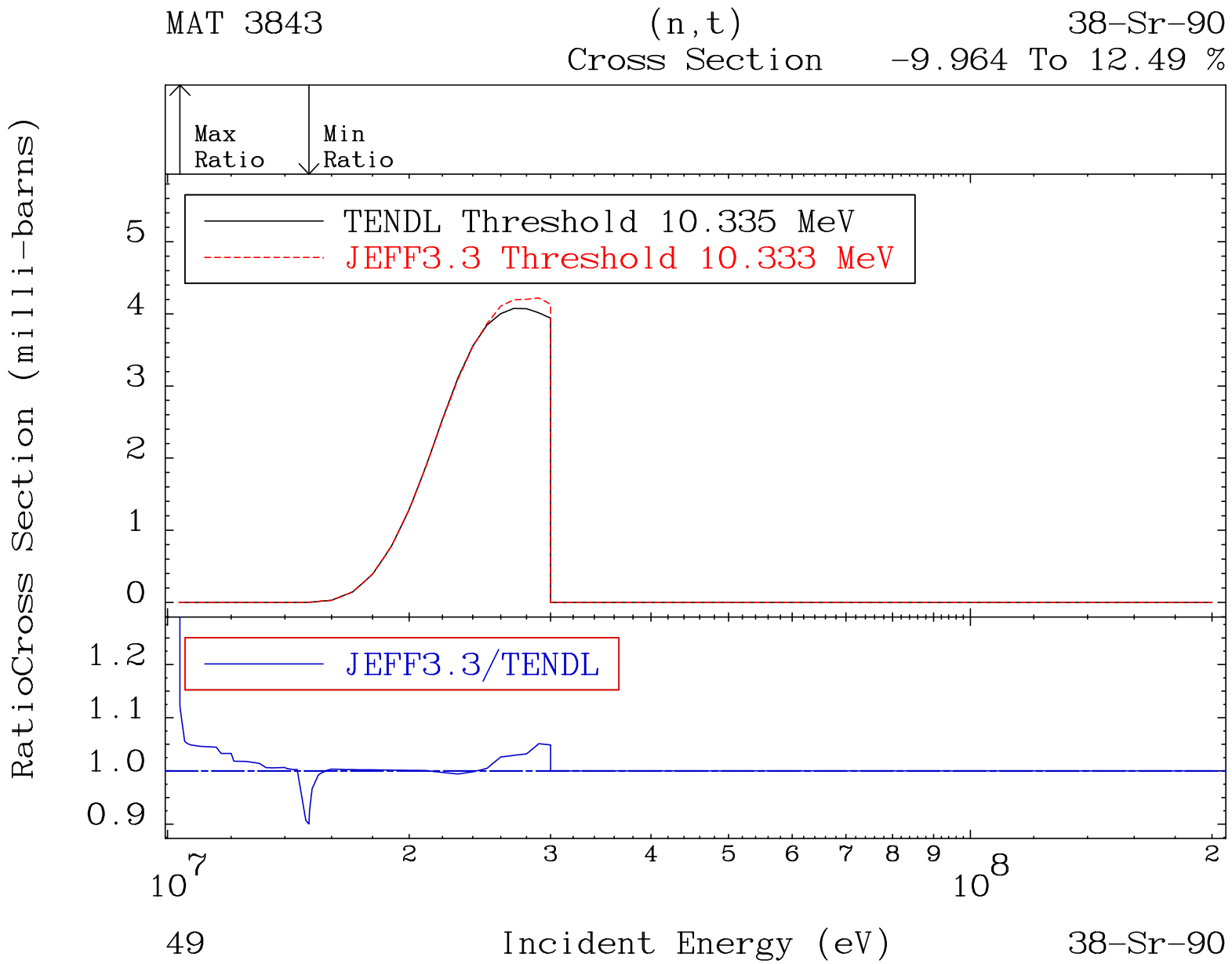

MAT 3843
MT= 76 (n,n') Level
38-Sr-90
Cross Section -18.21 To 0.187 %
Min Ratio
Max Ratio
TENDL Threshold 3.6677 MeV
JEFF3.3 Threshold 3.6677 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.1
1.0
0.9
0.8
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
38-Sr-90

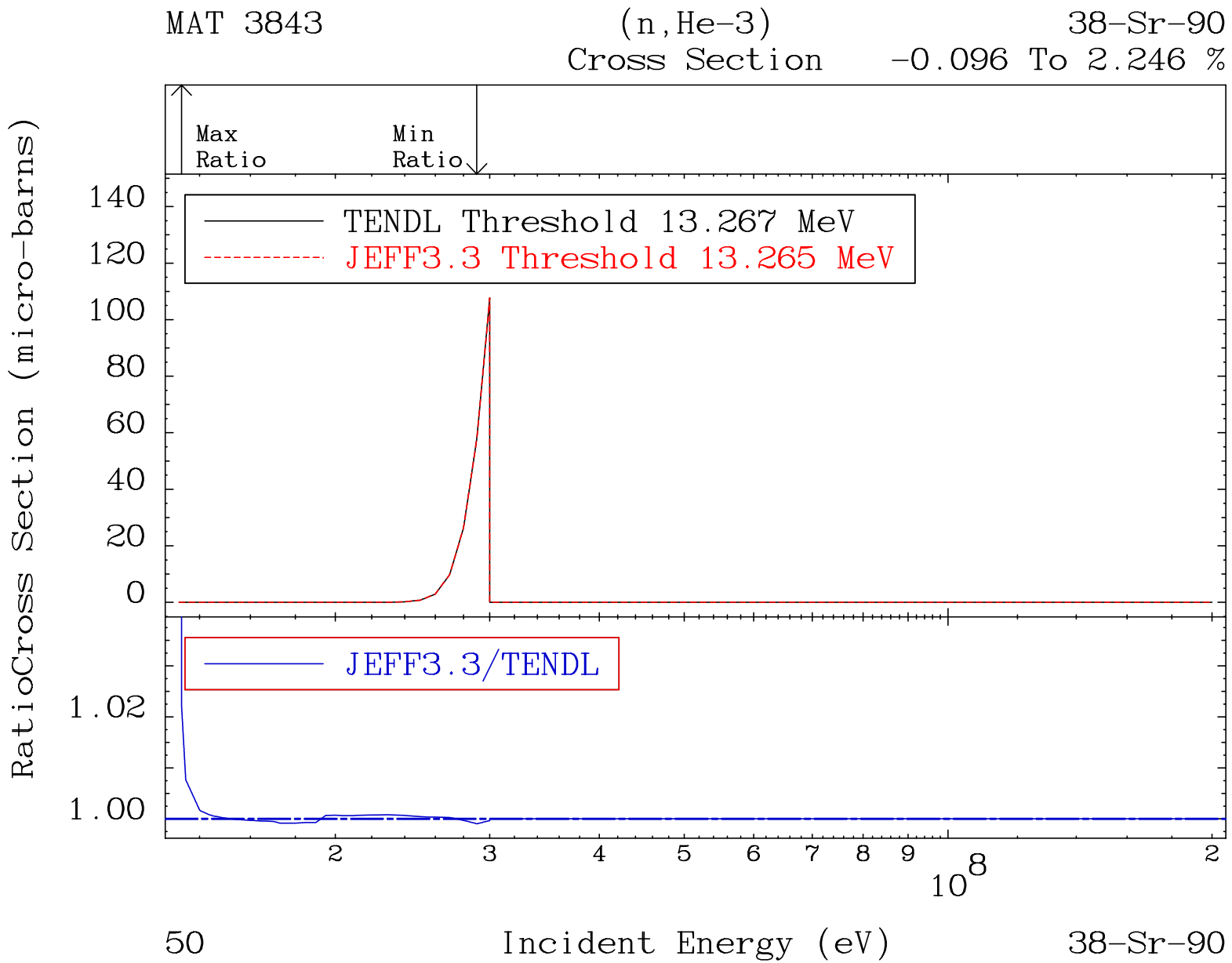

MAT 3843
(n,n') Continuum
Cross Section
38-Sr-90
-100.0 To 2.530 %
Min Ratio
Max Ratio
TENDL Threshold 3.6677 MeV
JEFF3.3 Threshold 3.8881 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
38-Sr-90

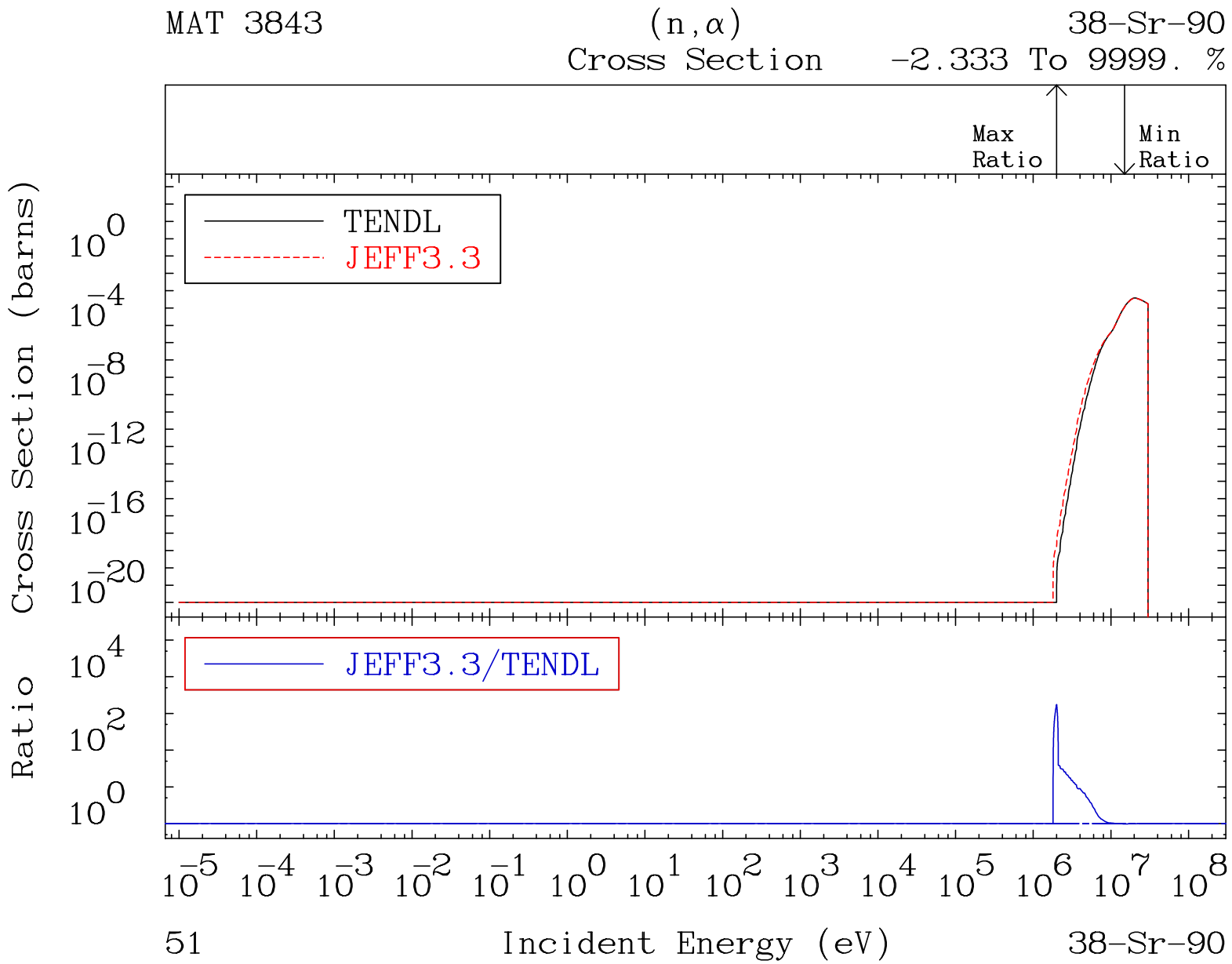

MAT 3843
(n,γ)
Cross Section
38-Sr-90
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
38-Sr-90

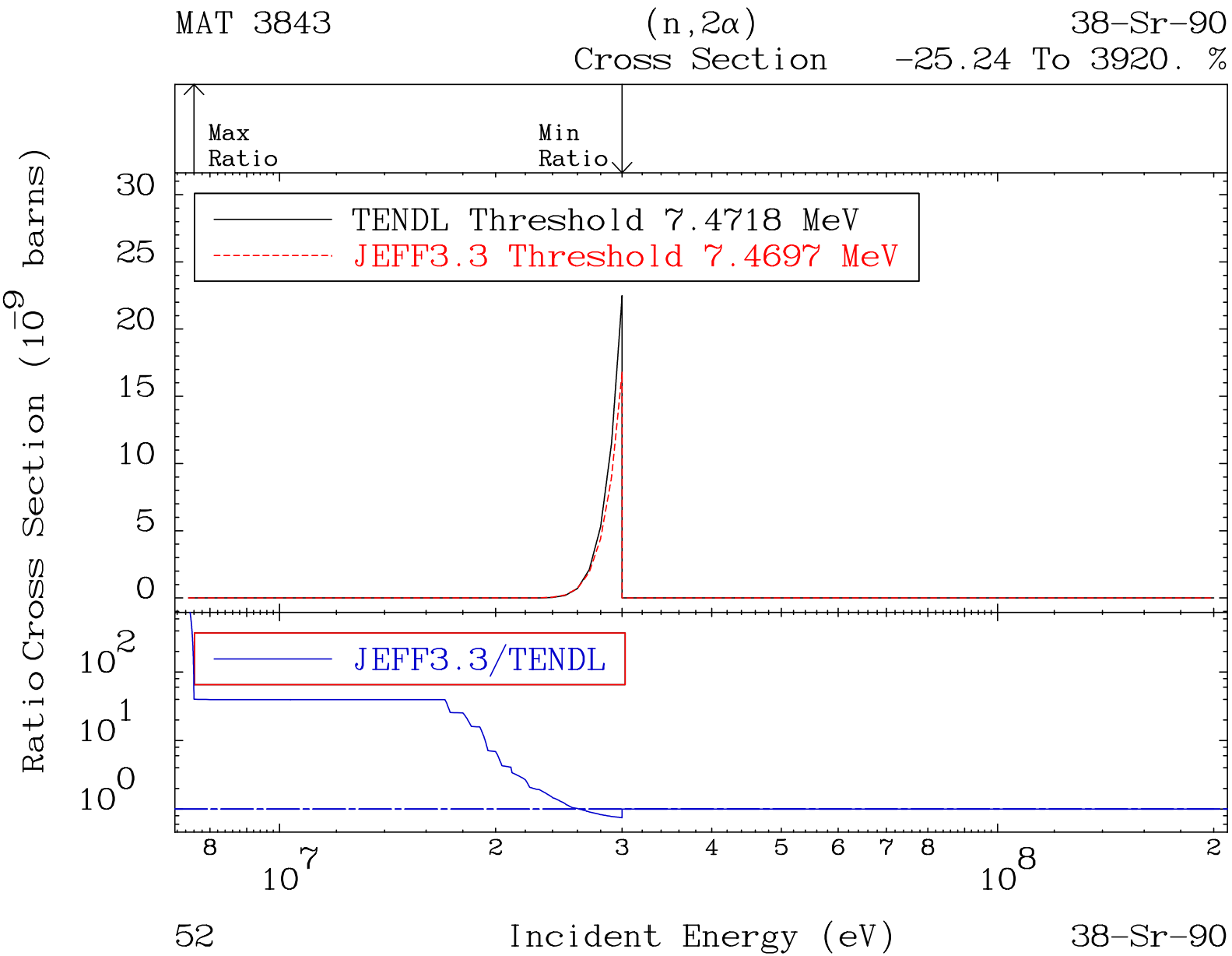

MAT 3843
(n,p)
38-Sr-90
Cross Section
-15.70 To 8.910 %
Min Ratio
Max Ratio
TENDL Threshold 5.8681 MeV
JEFF3.3 Threshold 5.8669 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
1.2
1.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
38-Sr-90

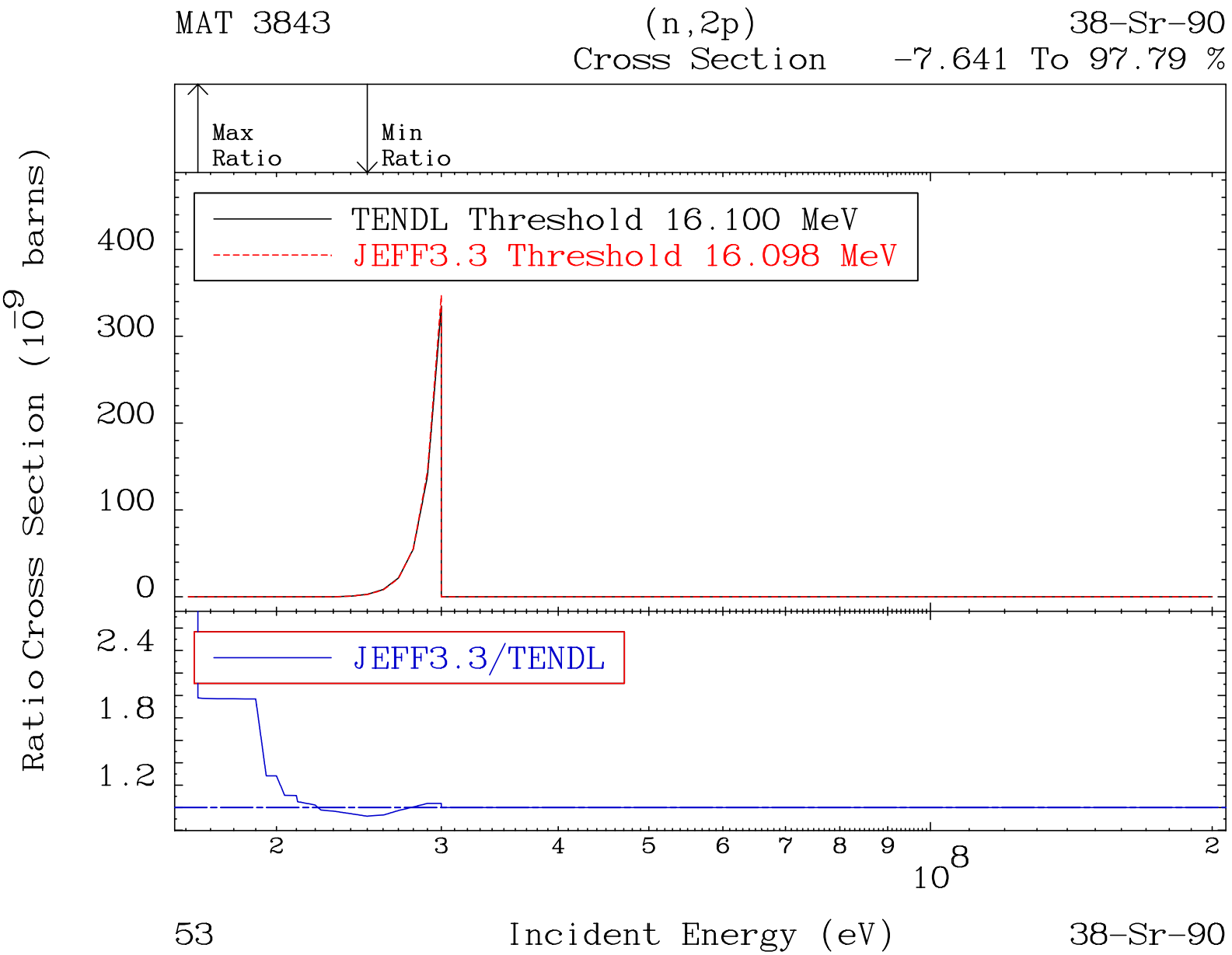

MAT 3843
(n,d)
38-Sr-90
Cross Section
-1.266 To 4.650 %
Max Ratio
Min Ratio
TENDL Threshold 9.4073 MeV
JEFF3.3 Threshold 9.4054 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.04
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
38-Sr-90

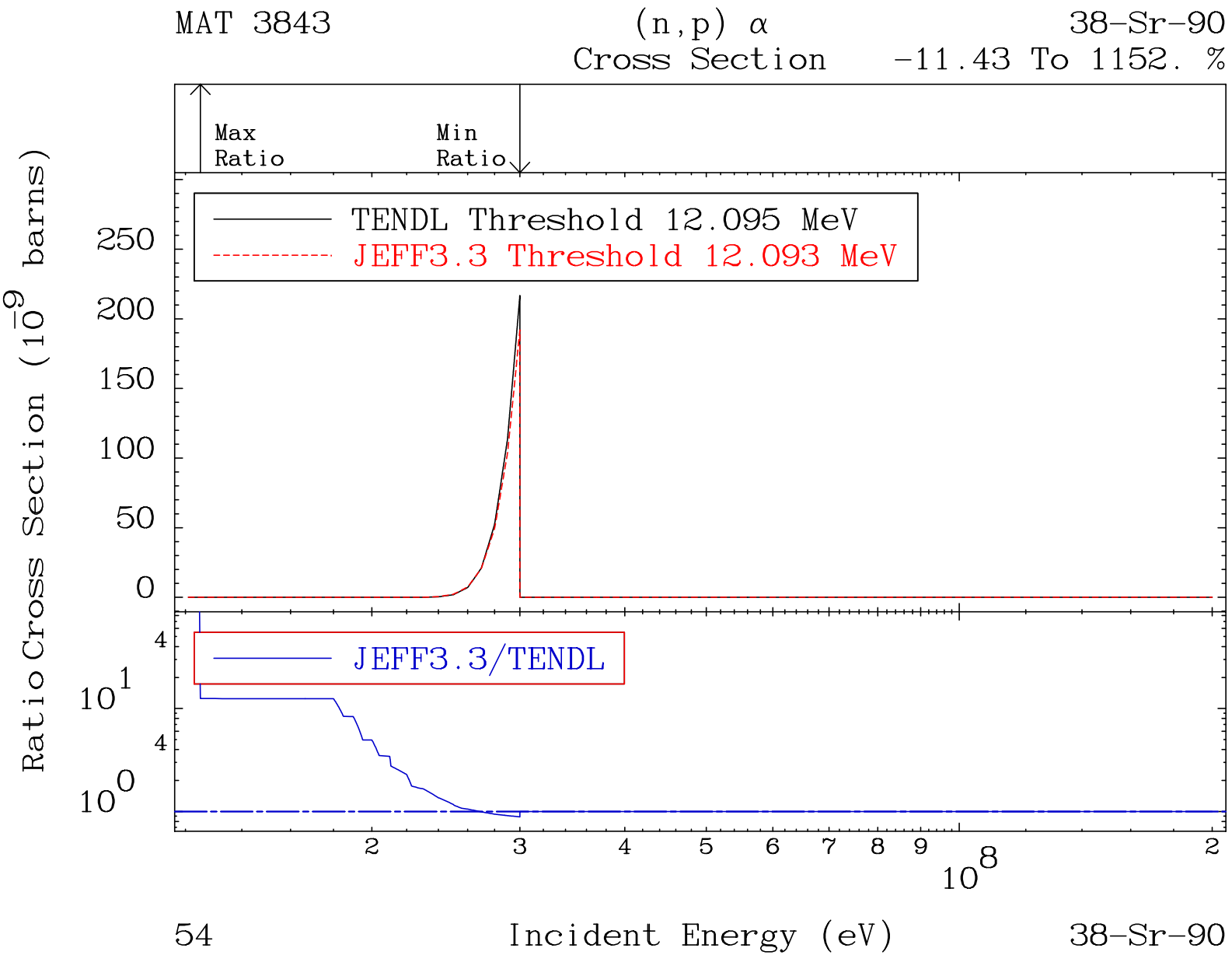

MAT 3843
(n,t)
Cross Section
38-Sr-90
-9.964 To 12.49 %
Max Ratio
Min Ratio
TENDL Threshold 10.335 MeV
JEFF3.3 Threshold 10.333 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
0.9
1.0
1.1
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
38-Sr-90

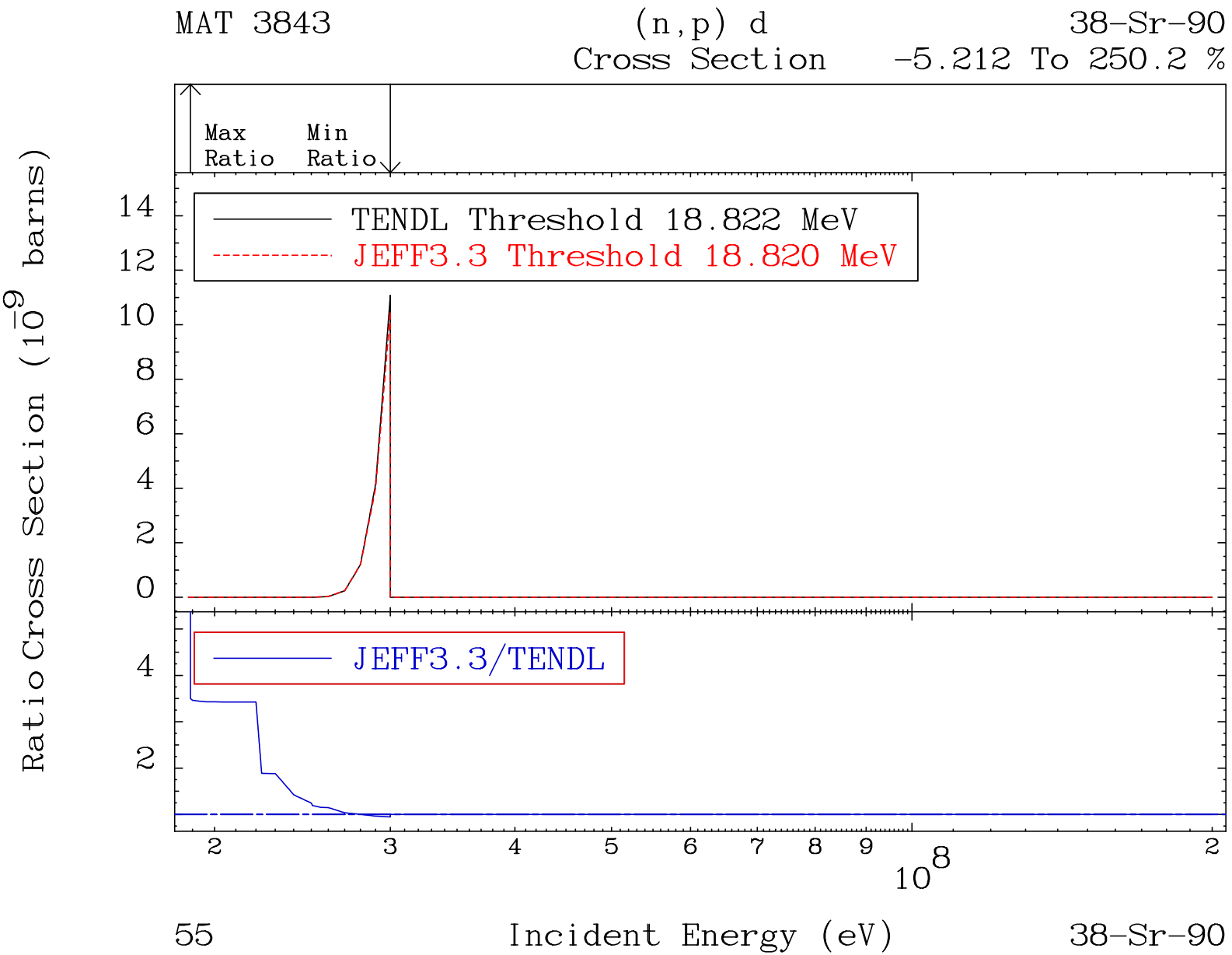

MAT 3843
(n,He-3)
Cross Section
38-Sr-90
-0.096 To 2.246 %
Max Ratio
Min Ratio
TENDL Threshold 13.267 MeV
JEFF3.3 Threshold 13.265 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
140
120
100
80
60
40
20
0
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
38-Sr-90

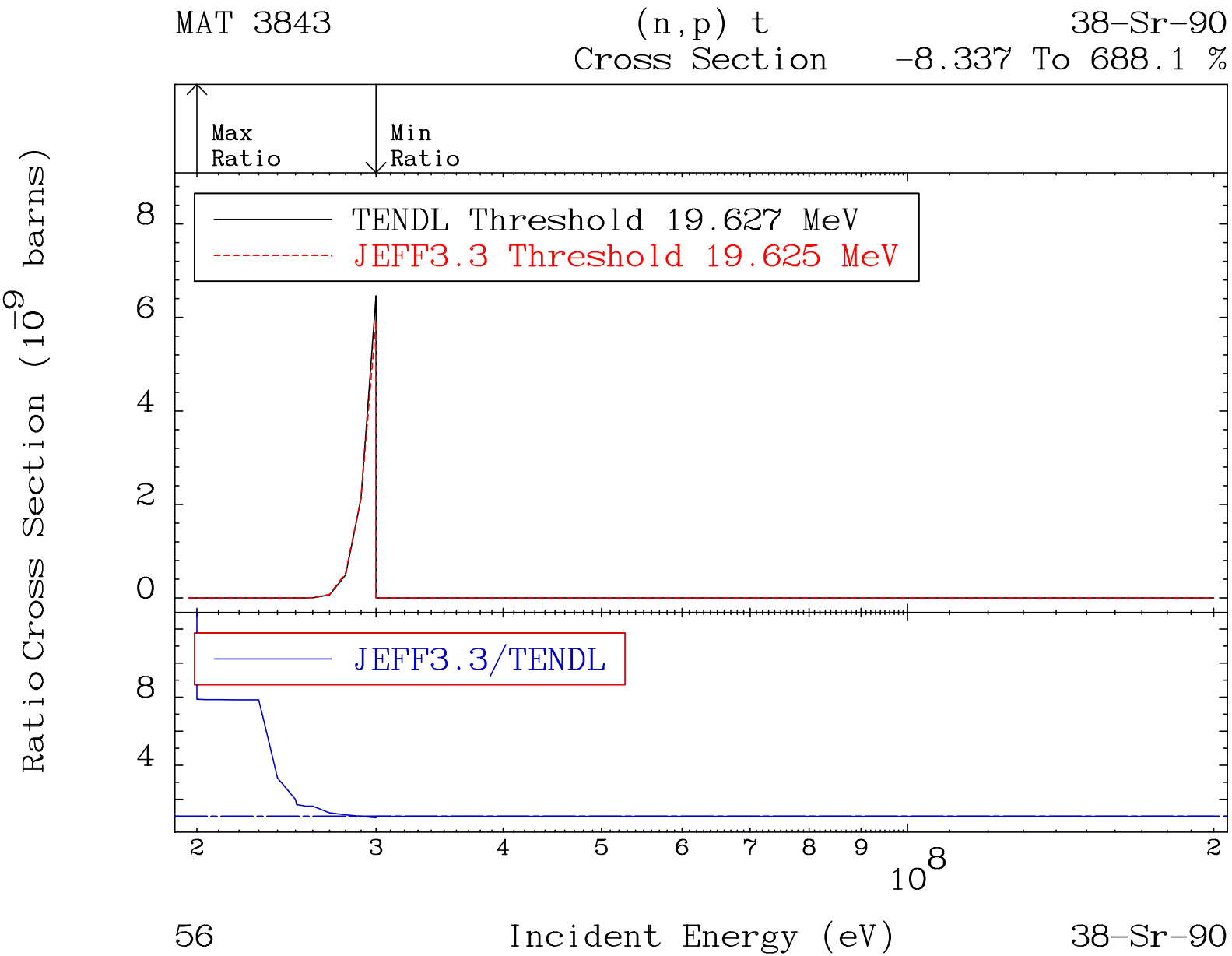

MAT 3843
(n,α)
38-Sr-90
Cross Section
-2.333 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
38-Sr-90

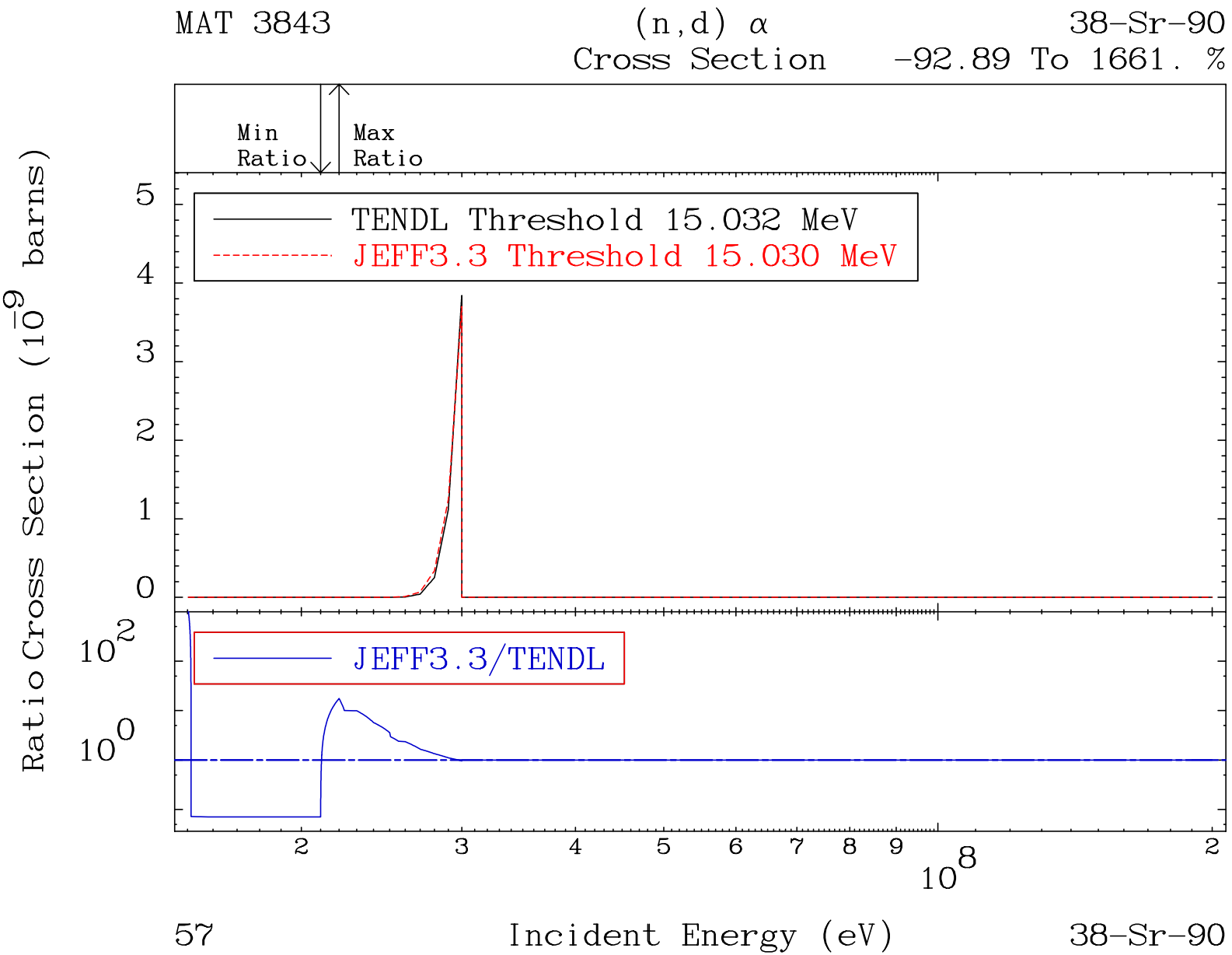

MAT 3843
(n,2α)
38-Sr-90
Cross Section
-25.24 To 3920. %
Max Ratio
Min Ratio
TENDL Threshold 7.4718 MeV
JEFF3.3 Threshold 7.4697 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
30
25
20
15
10
5
0
10^2
10^1
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
52
Incident Energy (eV)
38-Sr-90

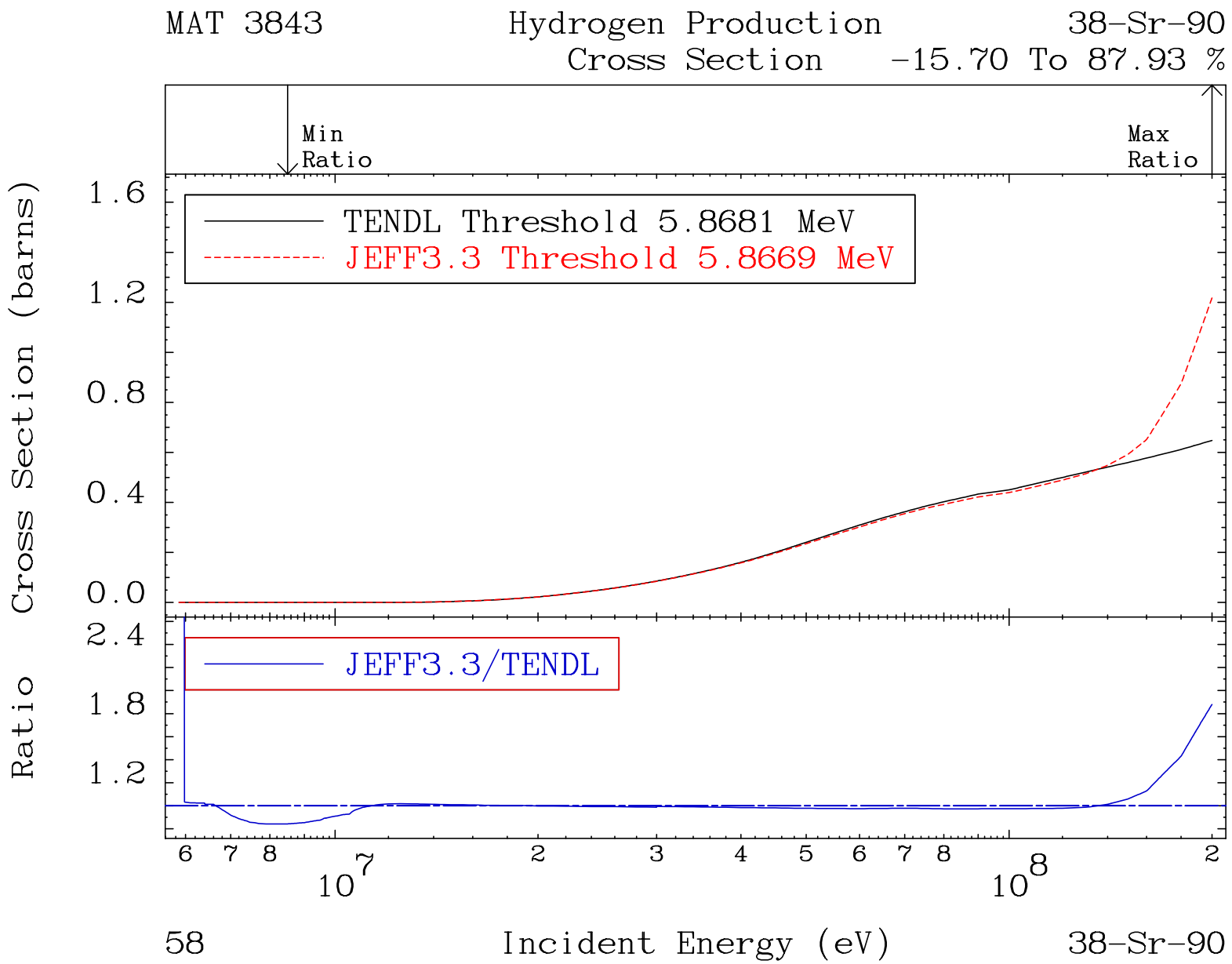

MAT 3843
(n,2p)
38-Sr-90
Cross Section
-7.641 To 97.79 %
Max Ratio
Min Ratio
TENDL Threshold 16.100 MeV
JEFF3.3 Threshold 16.098 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
400
300
200
100
0
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
38-Sr-90

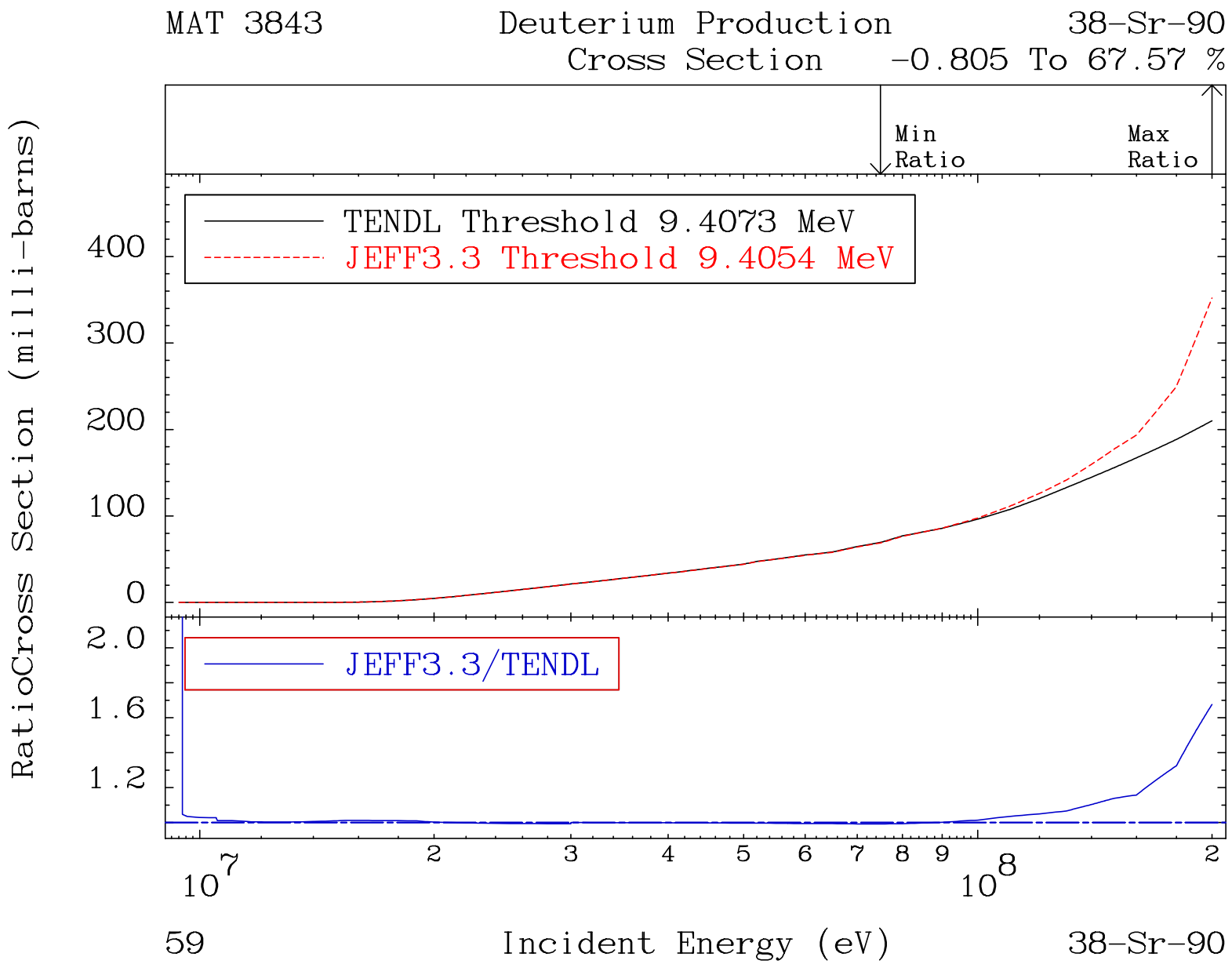

MAT 3843
(n,p) α
38-Sr-90
Cross Section
-11.43 To 1152. %
Max Ratio
Min Ratio
TENDL Threshold 12.095 MeV
JEFF3.3 Threshold 12.093 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
250
200
150
100
50
0
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
38-Sr-90

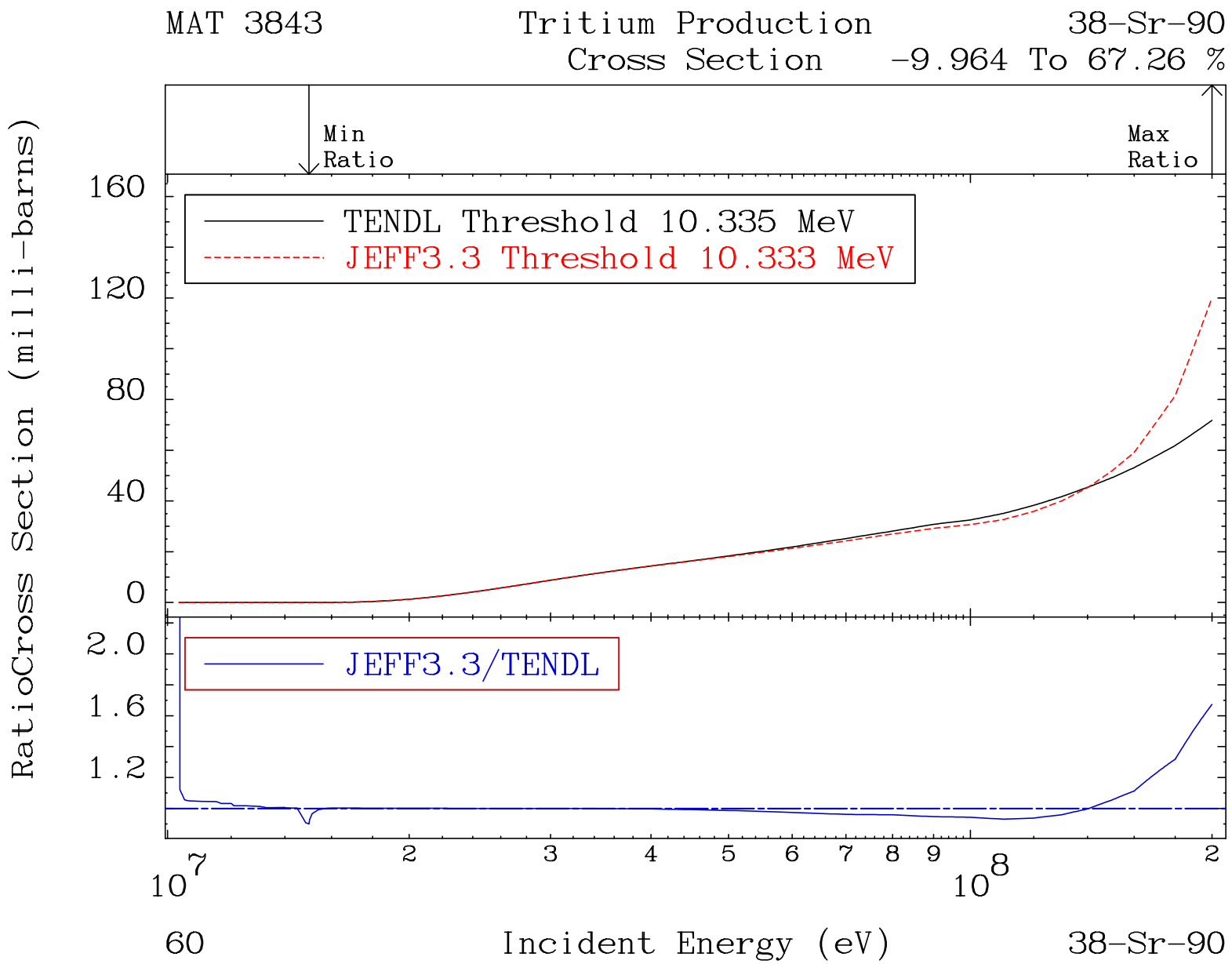

MAT 3843
(n,p) d
Cross Section
38-Sr-90
-5.212 To 250.2 %
Max Ratio
Min Ratio
TENDL Threshold 18.822 MeV
JEFF3.3 Threshold 18.820 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
10^8
55
38-Sr-90

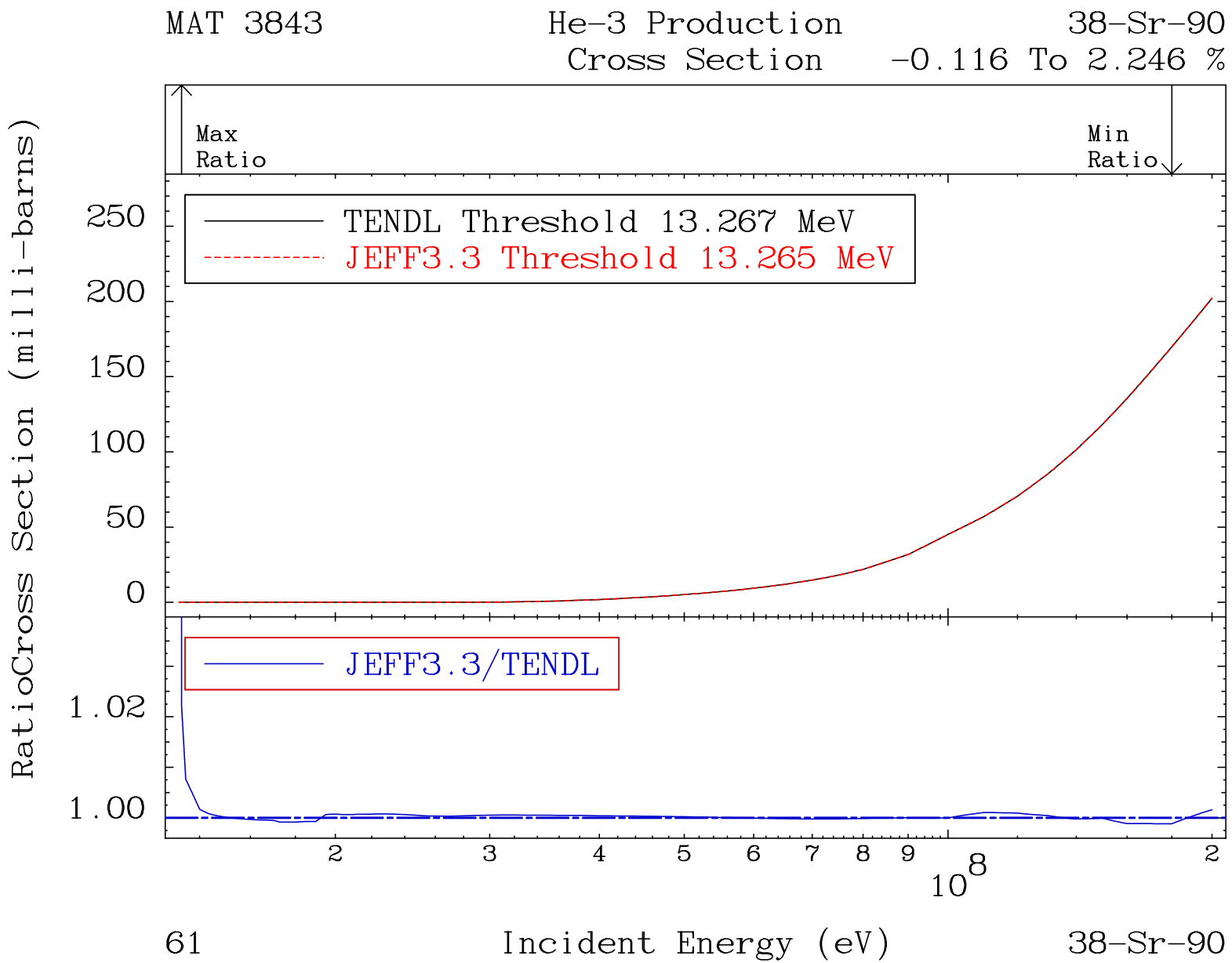

MAT 3843
(n,p) t
Cross Section
38-Sr-90
-8.337 To 688.1 %
Max Ratio
Min Ratio
TENDL Threshold 19.627 MeV
JEFF3.3 Threshold 19.625 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
10^{8}
56
38-Sr-90

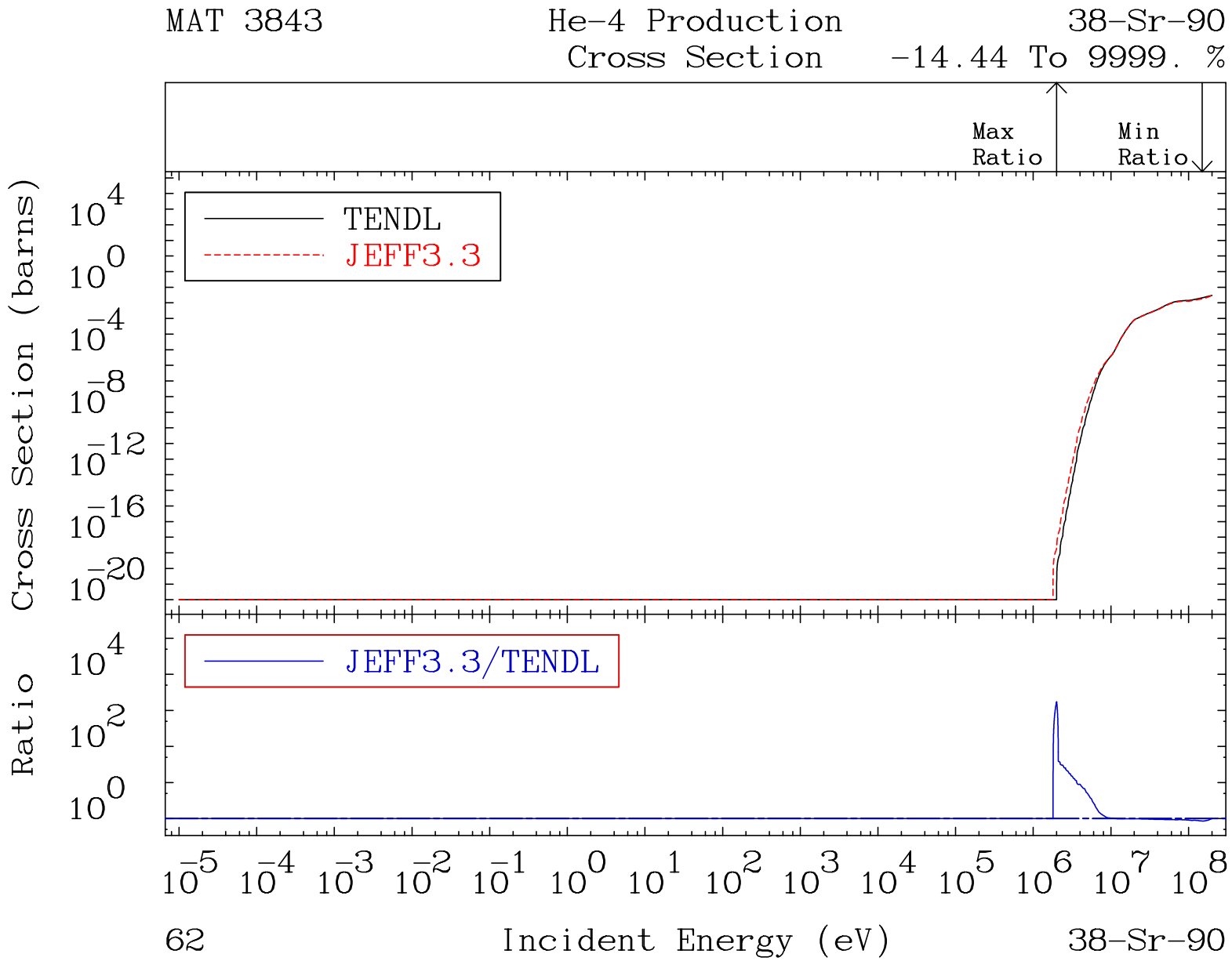

MAT 3843
(n,d) α
38-Sr-90
Cross Section
-92.89 To 1661. %
Min Ratio
Max Ratio
TENDL Threshold 15.032 MeV
JEFF3.3 Threshold 15.030 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
57
38-Sr-90

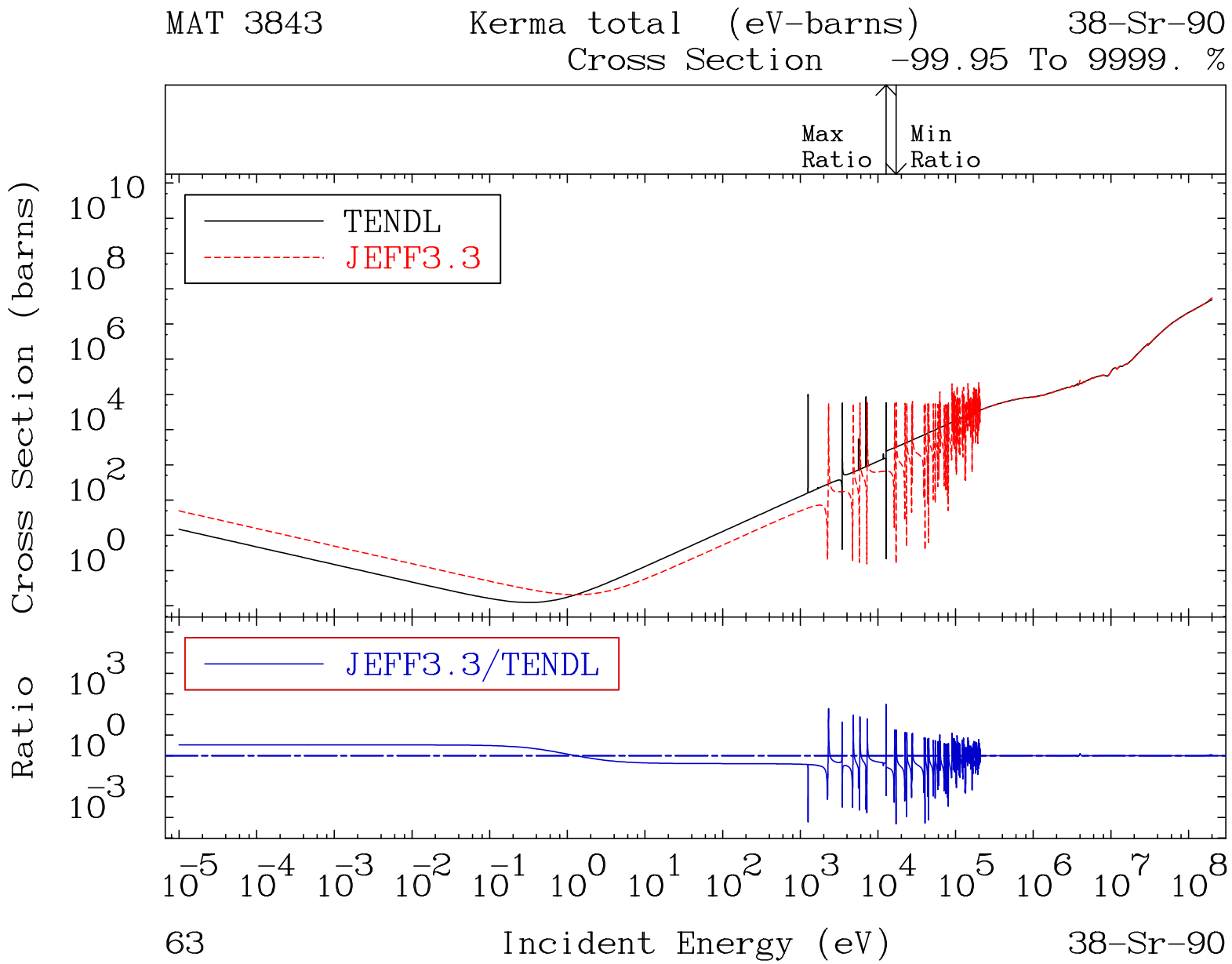

MAT 3843
Hydrogen Production
38-Sr-90
Cross Section
-15.70 To 87.93 %
Min Ratio
Max Ratio
TENDL Threshold 5.8681 MeV
JEFF3.3 Threshold 5.8669 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2.4
1.8
1.2
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
58
Incident Energy (eV)
38-Sr-90

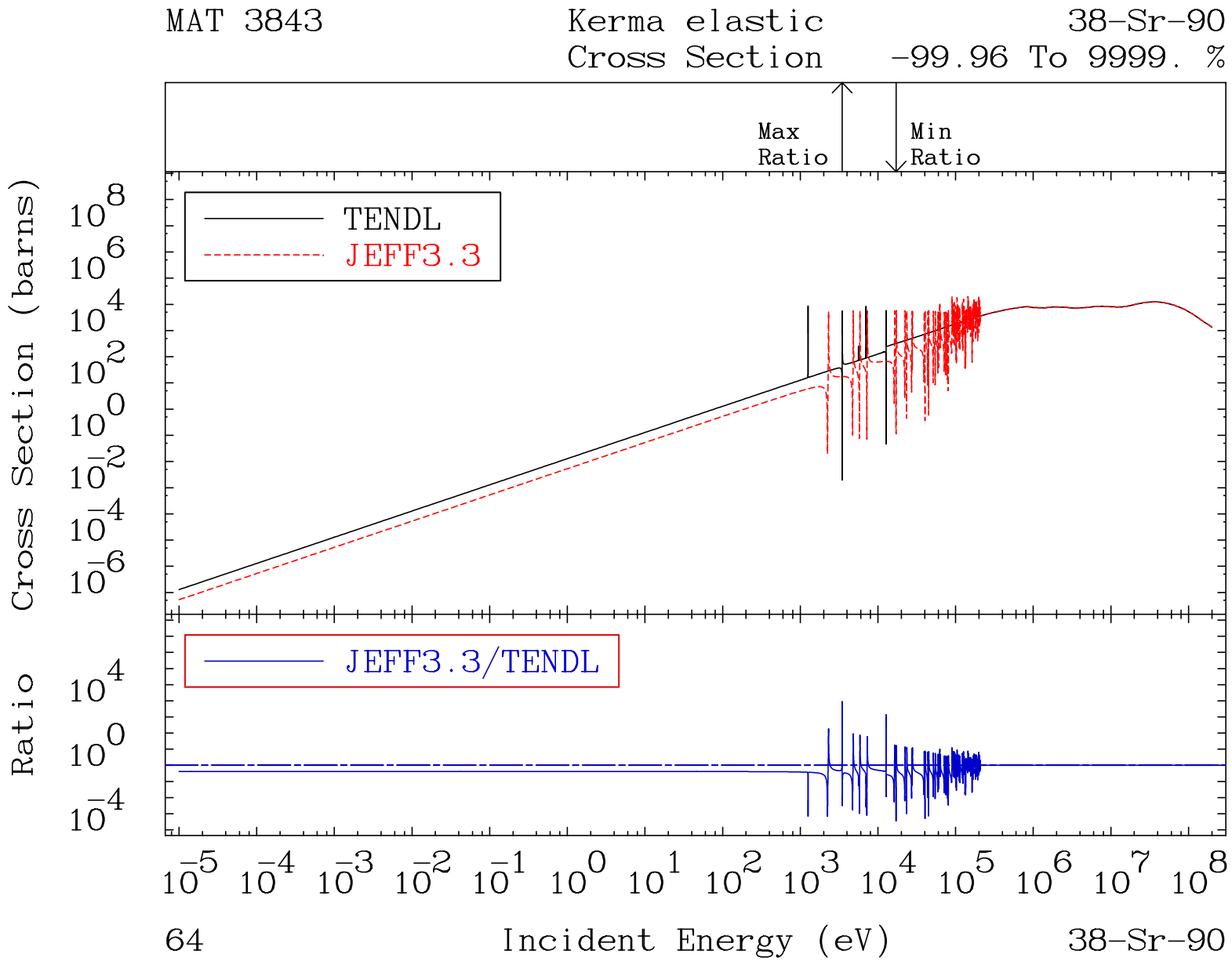

MAT 3843
Deuterium Production
38-Sr-90
Cross Section
-0.805 To 67.57 %
Min Ratio
Max Ratio
TENDL Threshold 9.4073 MeV
JEFF3.3 Threshold 9.4054 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
38-Sr-90

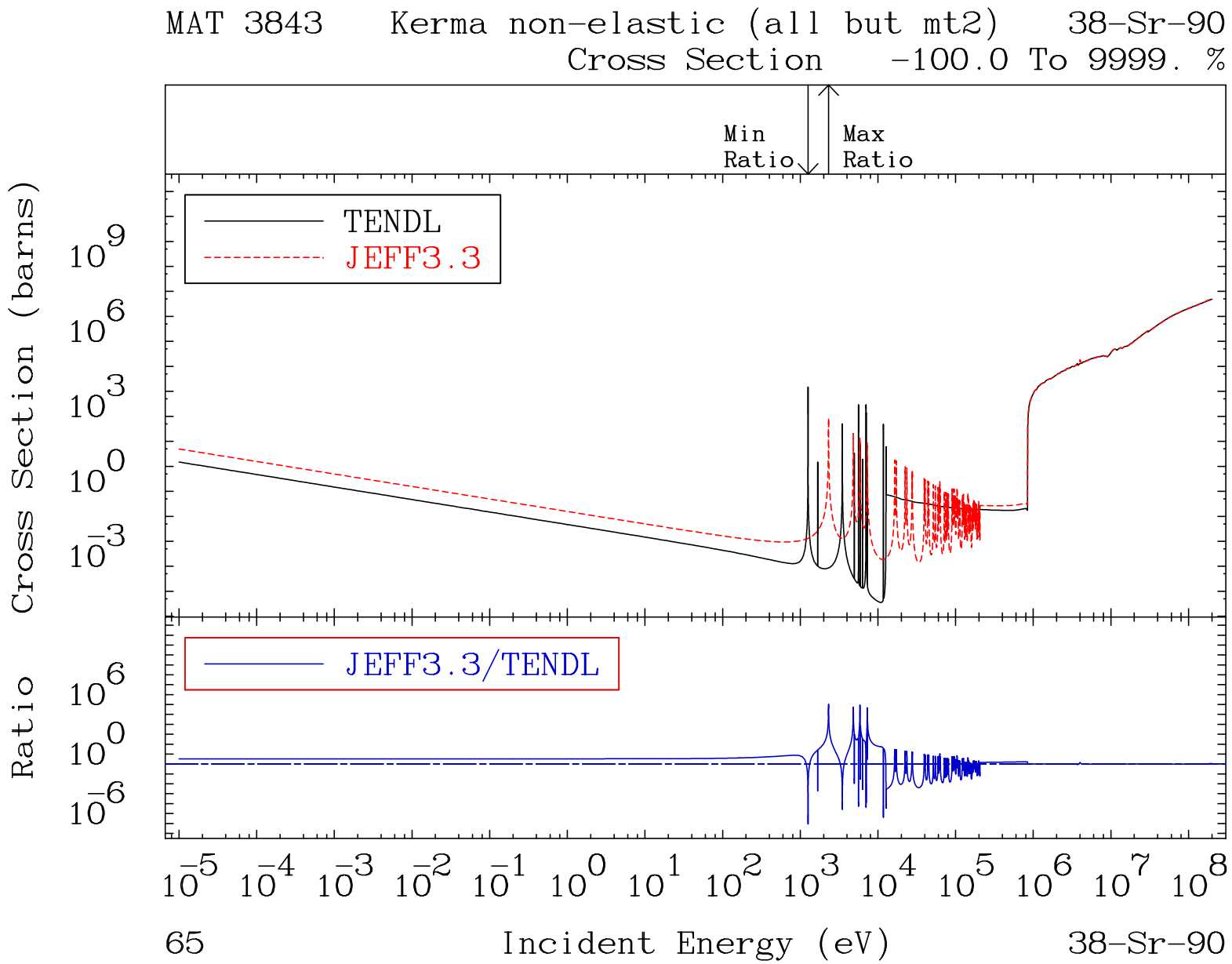

MAT 3843
Tritium Production
38-Sr-90
Cross Section
-9.964 To 67.26 %
Min Ratio
Max Ratio
TENDL Threshold 10.335 MeV
JEFF3.3 Threshold 10.333 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
38-Sr-90

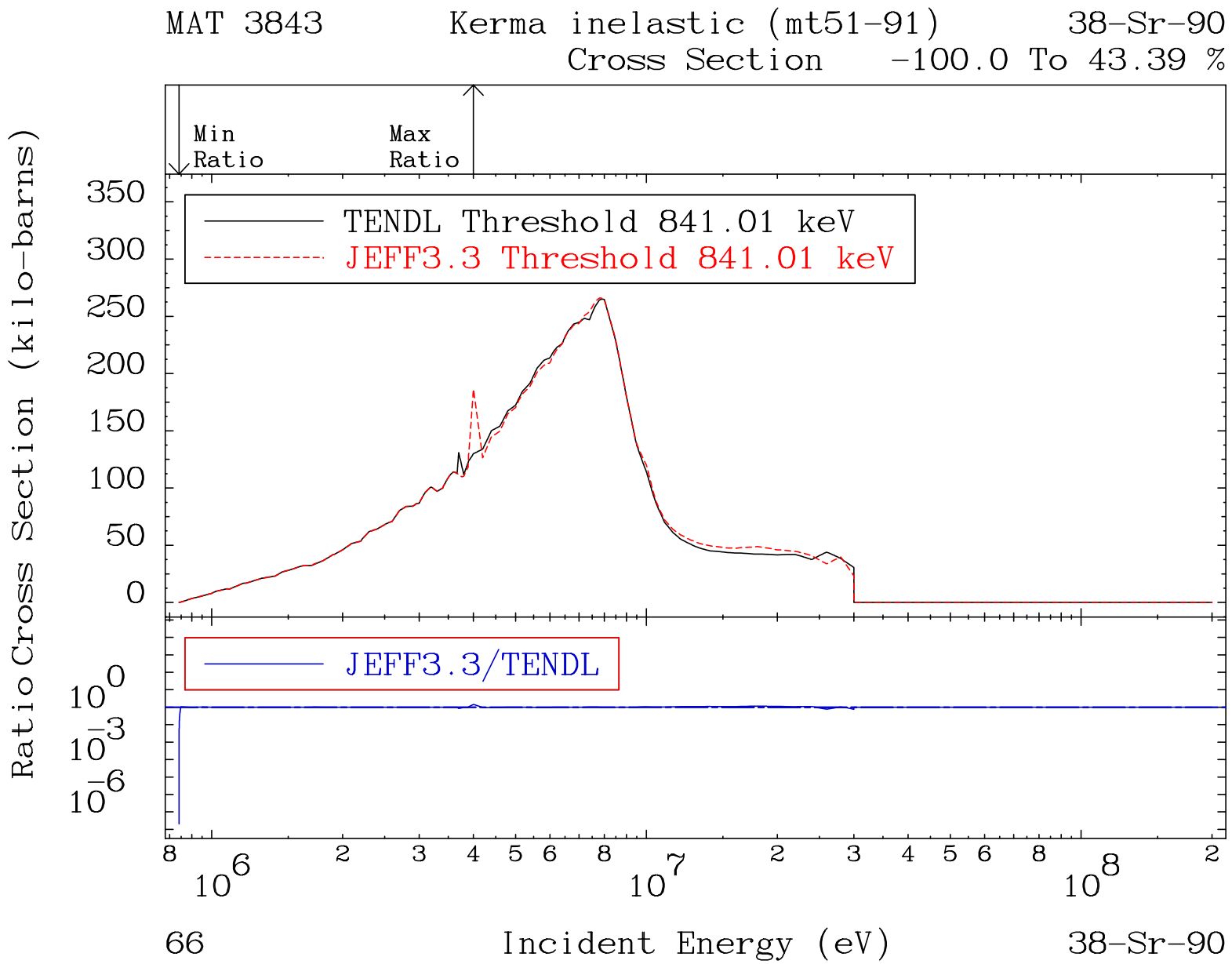

MAT 3843
He-3 Production
Cross Section
38-Sr-90
-0.116 To 2.246 %
Max Ratio
Min Ratio
TENDL Threshold 13.267 MeV
JEFF3.3 Threshold 13.265 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
38-Sr-90

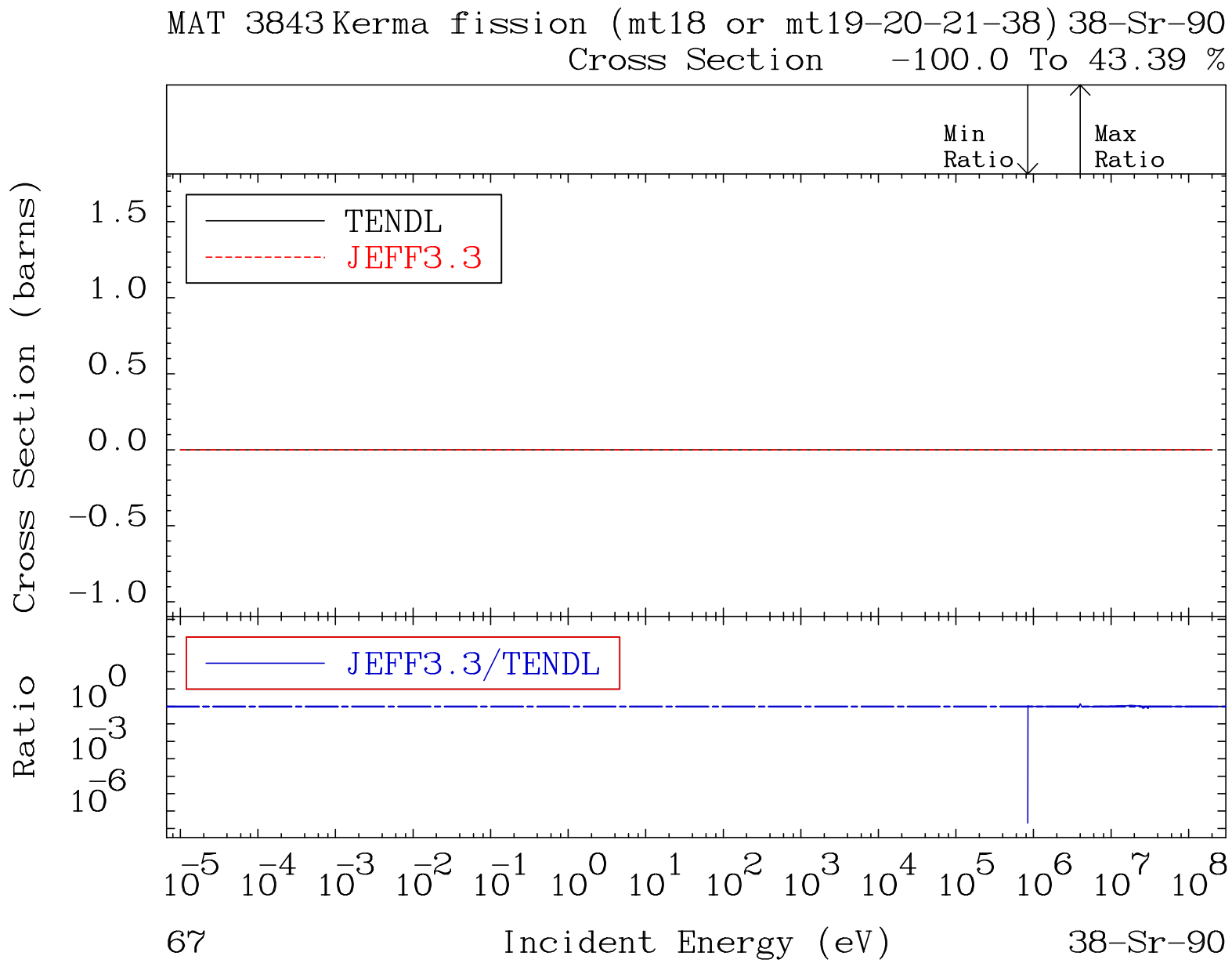

MAT 3843
He-4 Production
Cross Section
38-Sr-90
-14.44 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
38-Sr-90

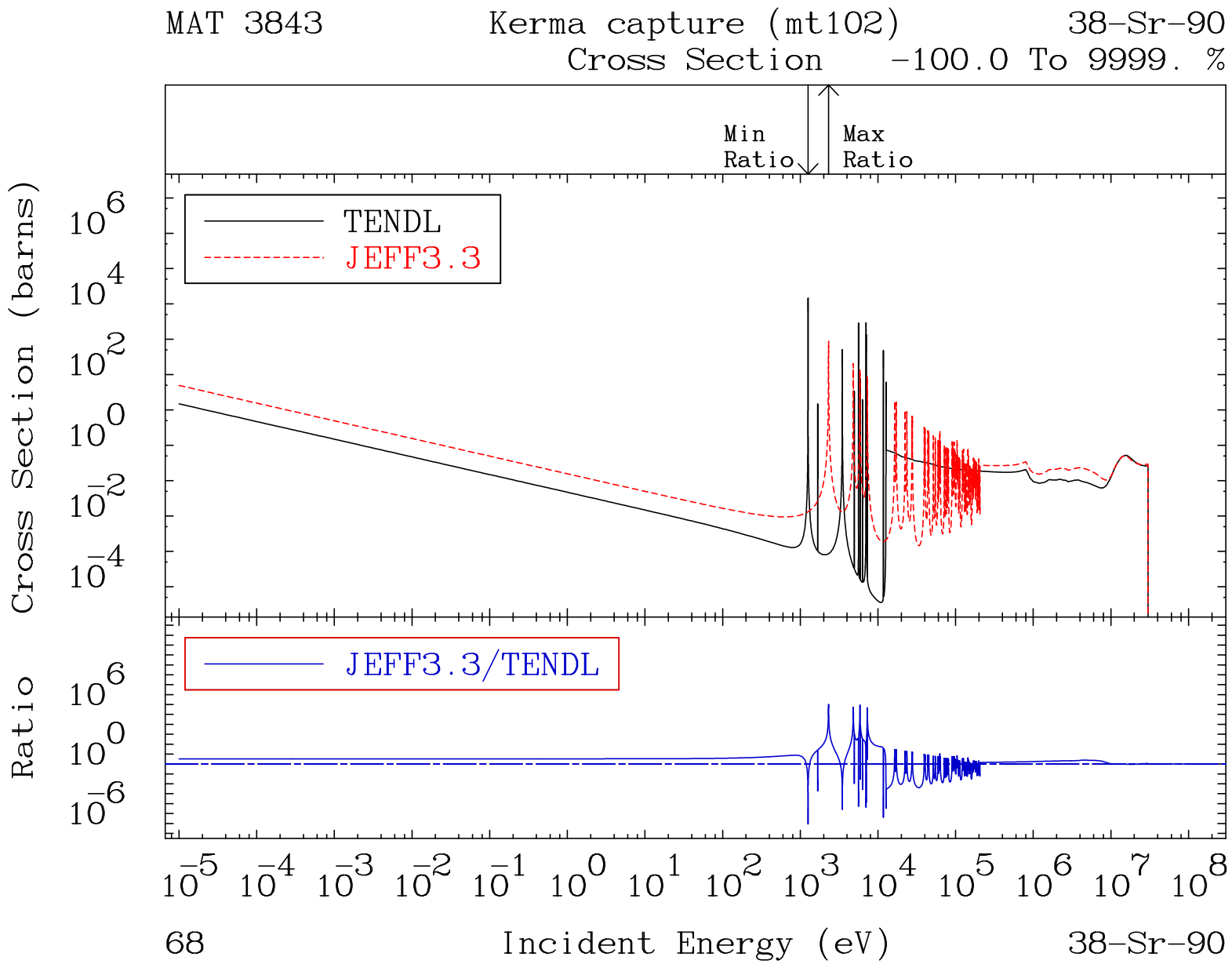

MAT 3843
Kerma total (eV-barns)
38-Sr-90
Cross Section -99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
38-Sr-90

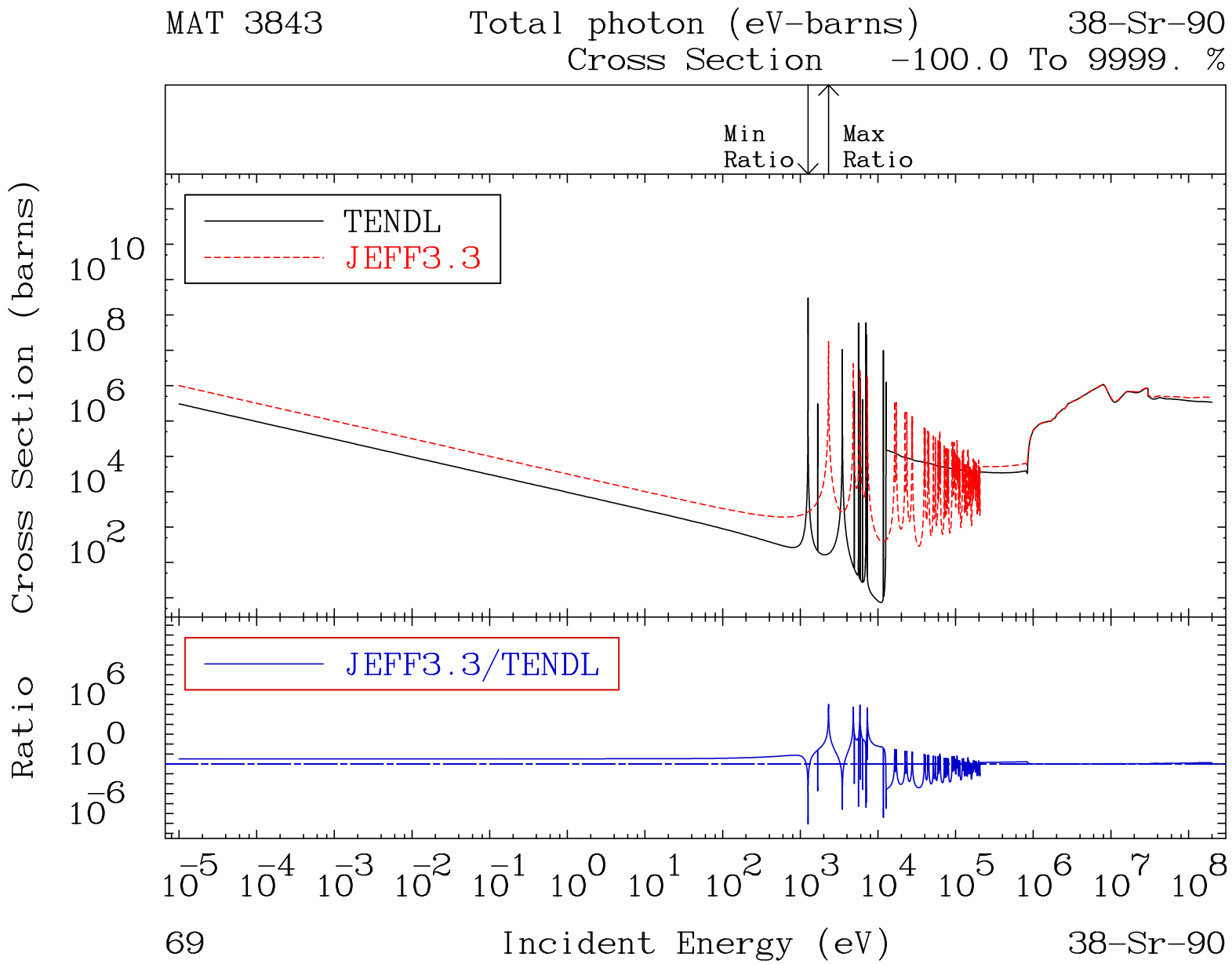

MAT 3843
Kerma elastic
Cross Section
38-Sr-90
-99.96 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
38-Sr-90

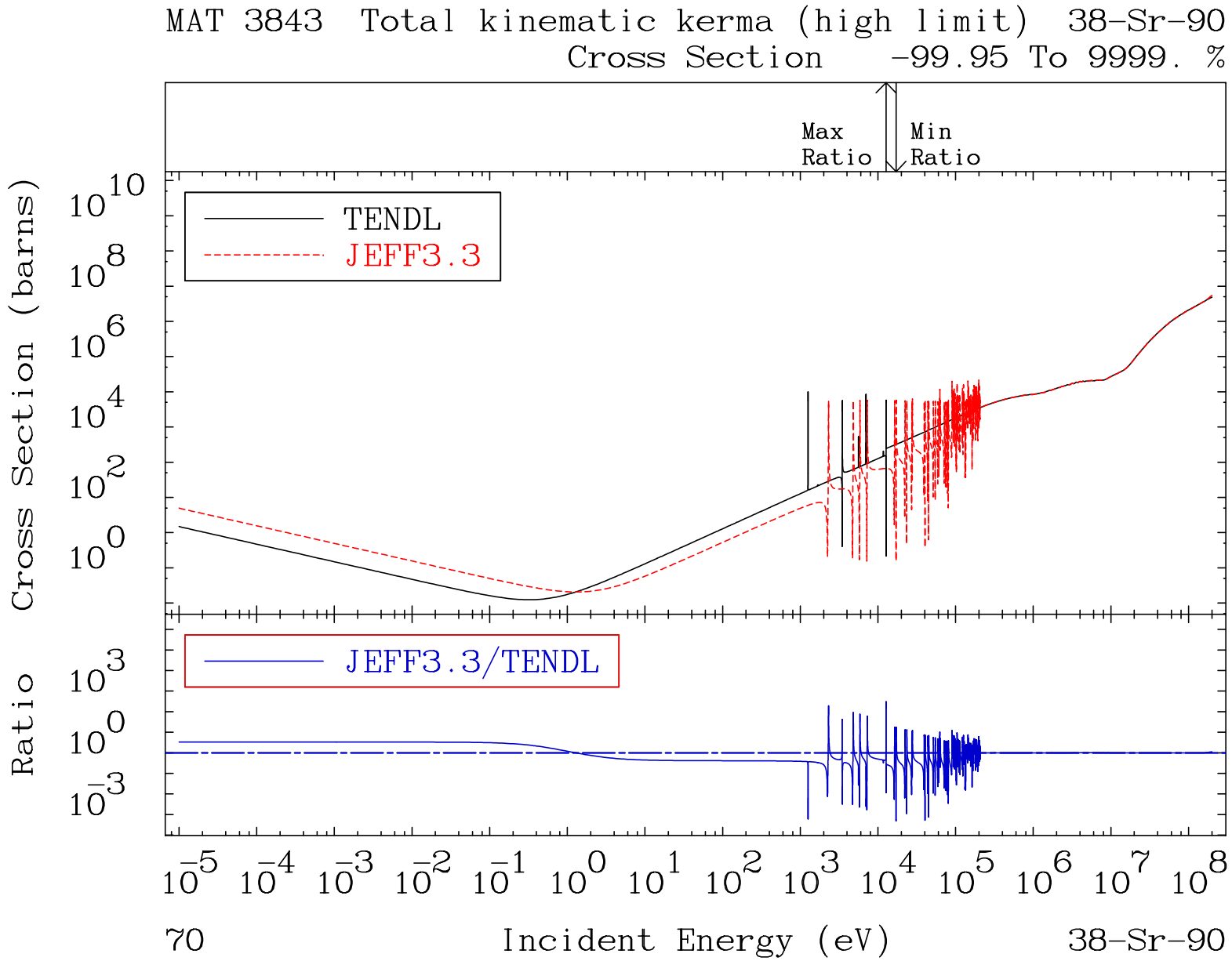

MAT 3843 Kerma non-elastic (all but mt2) 38-Sr-90
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
38-Sr-90

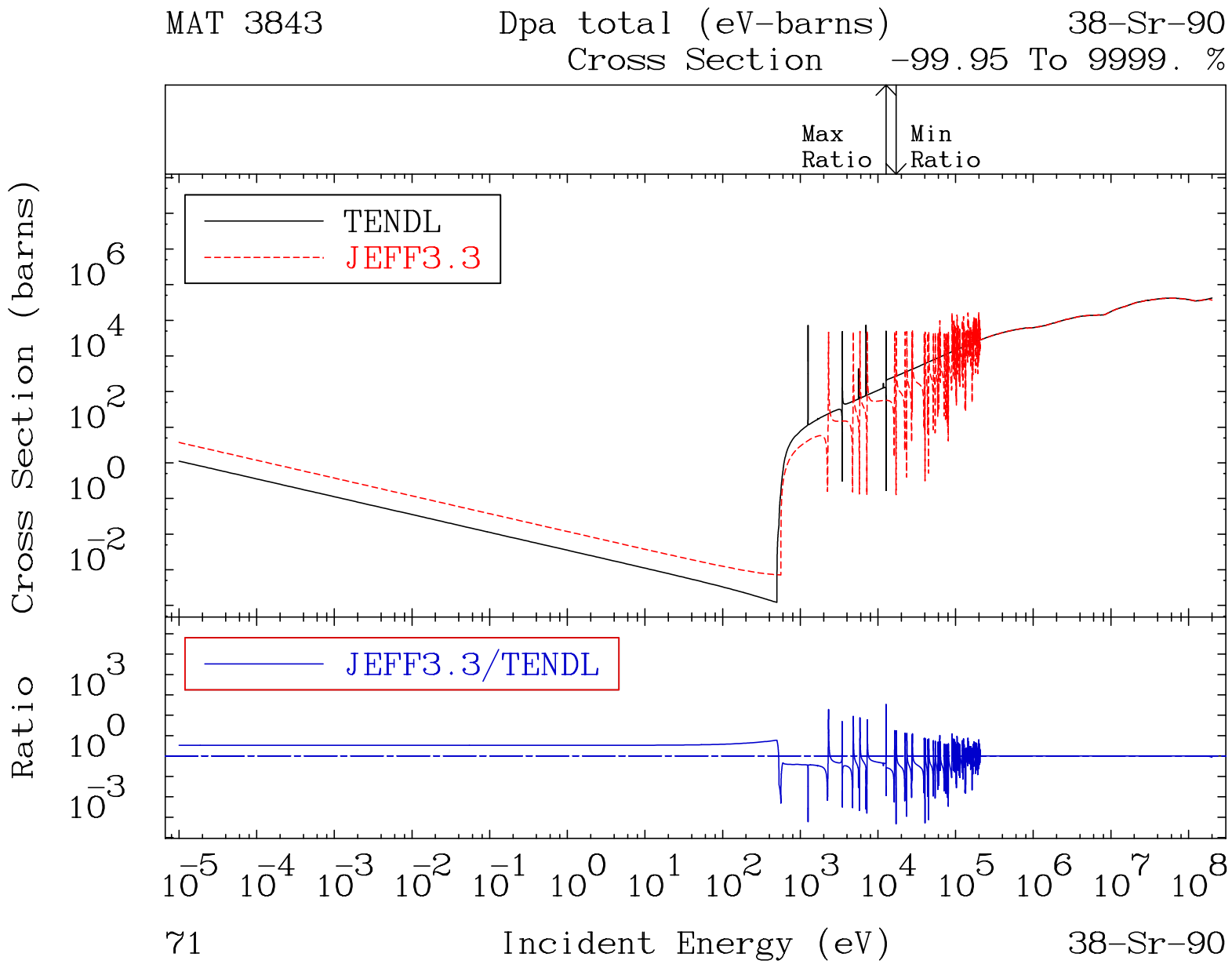

MAT 3843
Kerma inelastic (mt51-91)
38-Sr-90
Cross Section -100.0 To 43.39 %
Min Ratio
Max Ratio
TENDL Threshold 841.01 keV
JEFF3.3 Threshold 841.01 keV
JEFF3.3/TENDL
Ratio Cross Section (kilo-barns)
Incident Energy (eV)
66
38-Sr-90

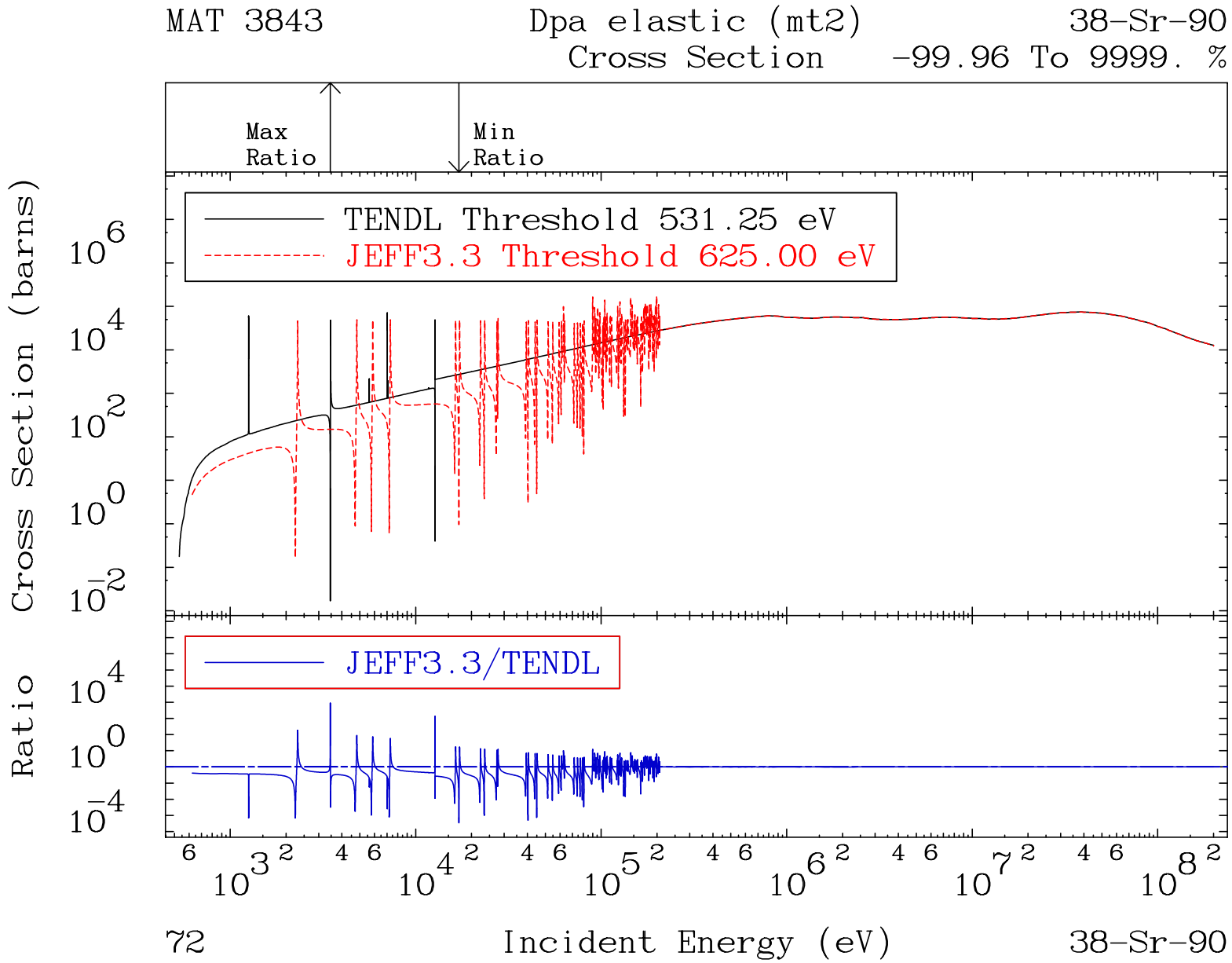

MAT 3843 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-90
Cross Section -100.0 To 43.39 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-3}
10^{-6}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
67
Incident Energy (eV)
38-Sr-90

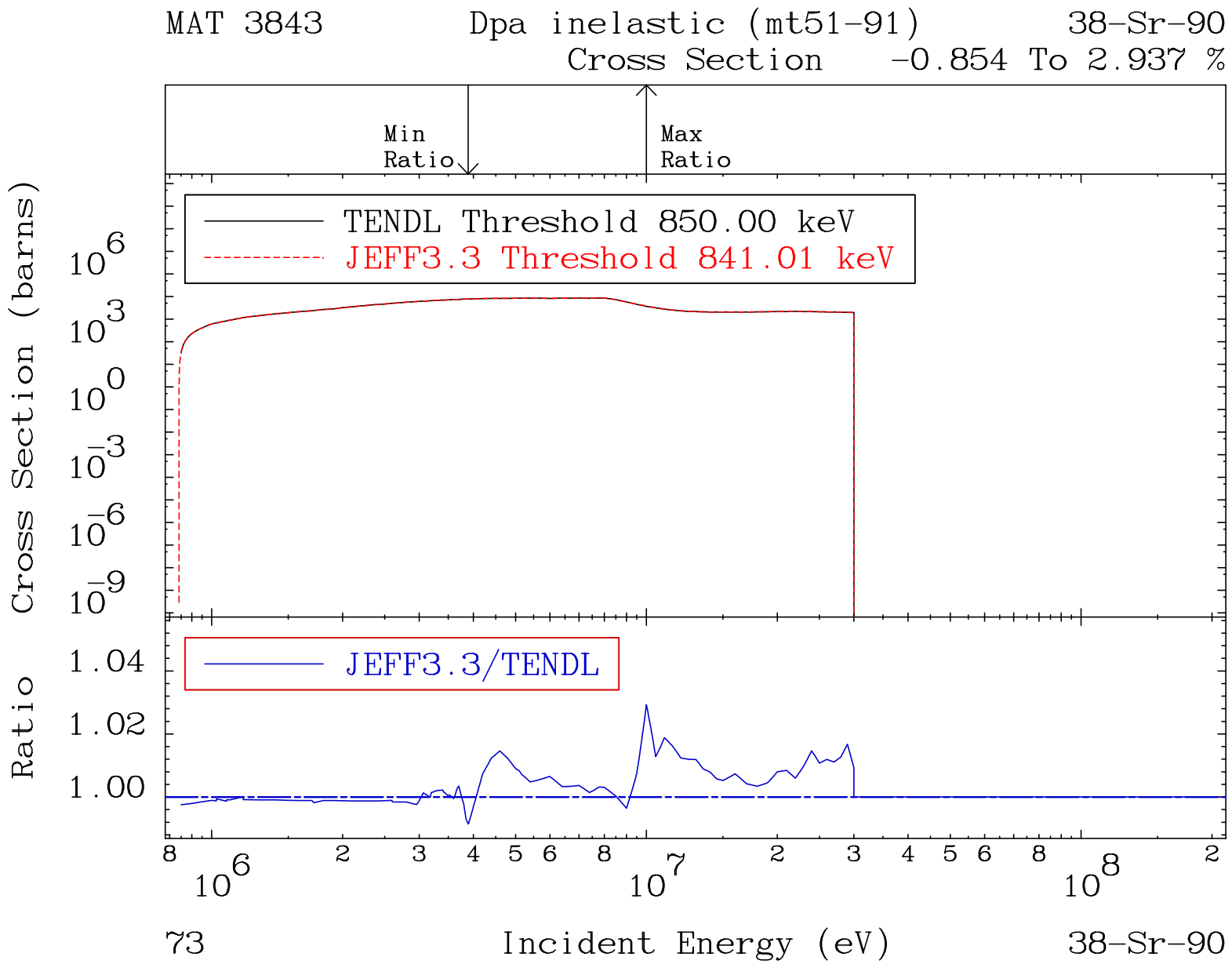

MAT 3843
Kerma capture (mt102)
38-Sr-90
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
38-Sr-90

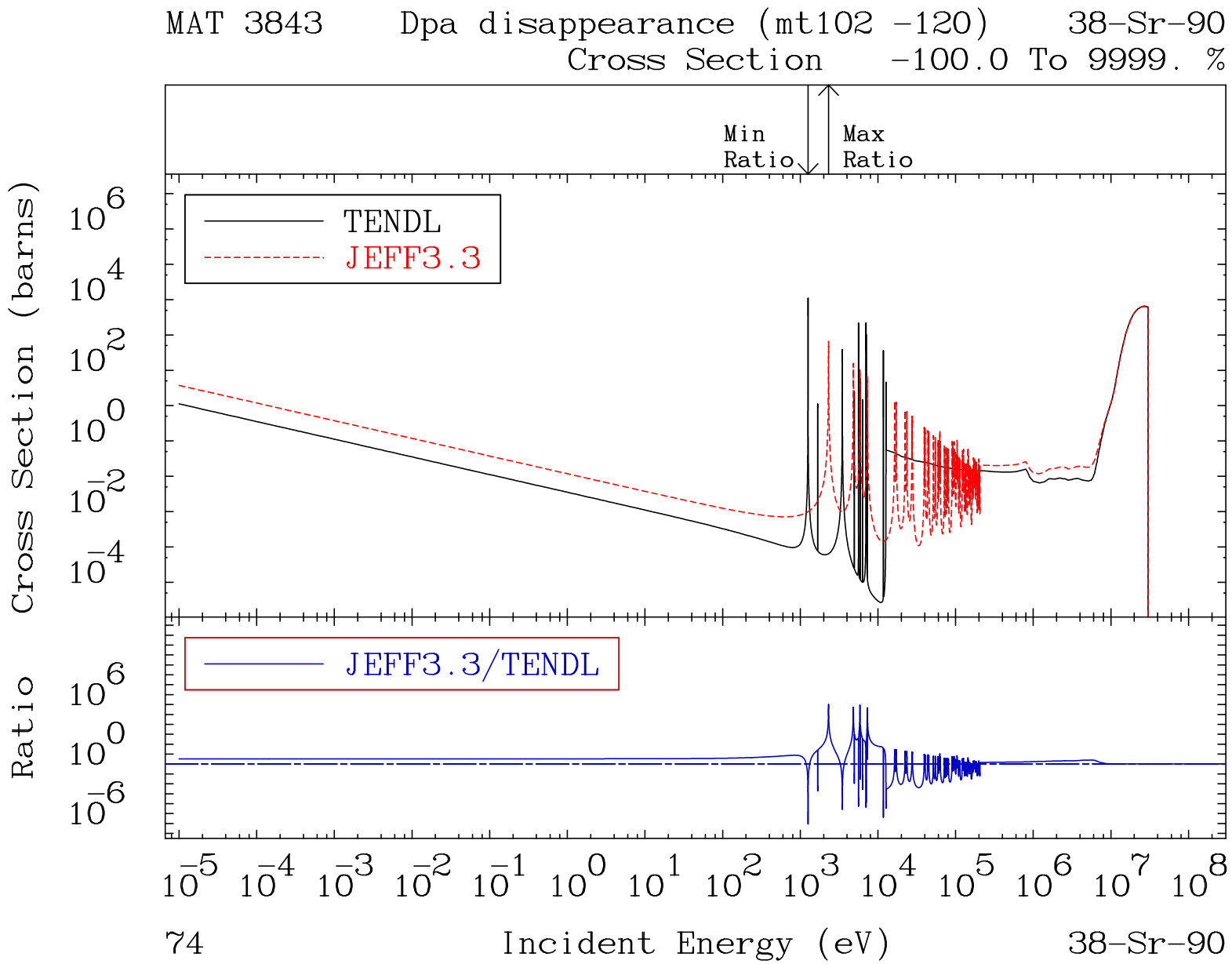

MAT 3843
Total photon (eV-barns)
38-Sr-90
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
38-Sr-90

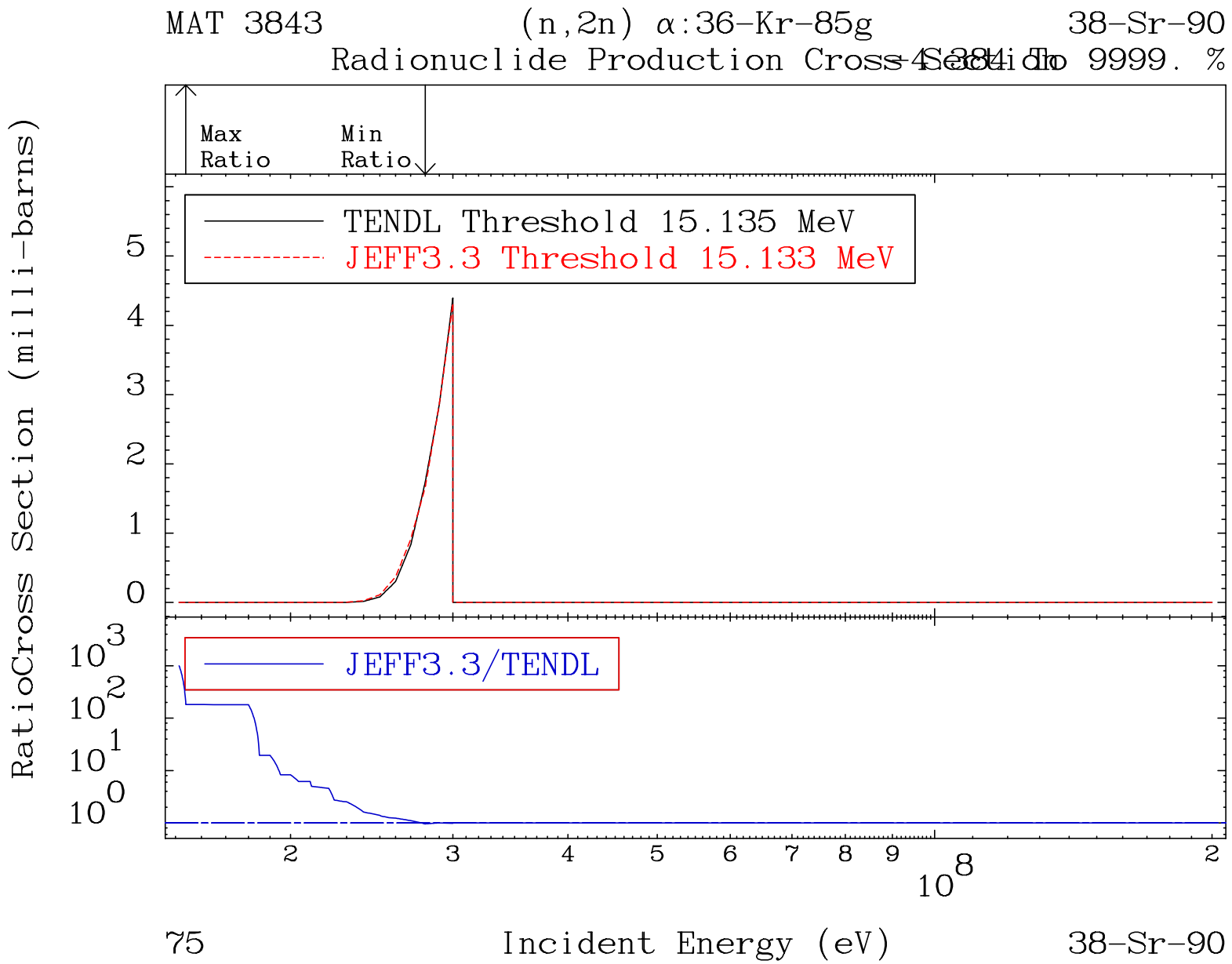

MAT 3843 Total kinematic kerma (high limit) 38-Sr-90
Cross Section -99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
38-Sr-90

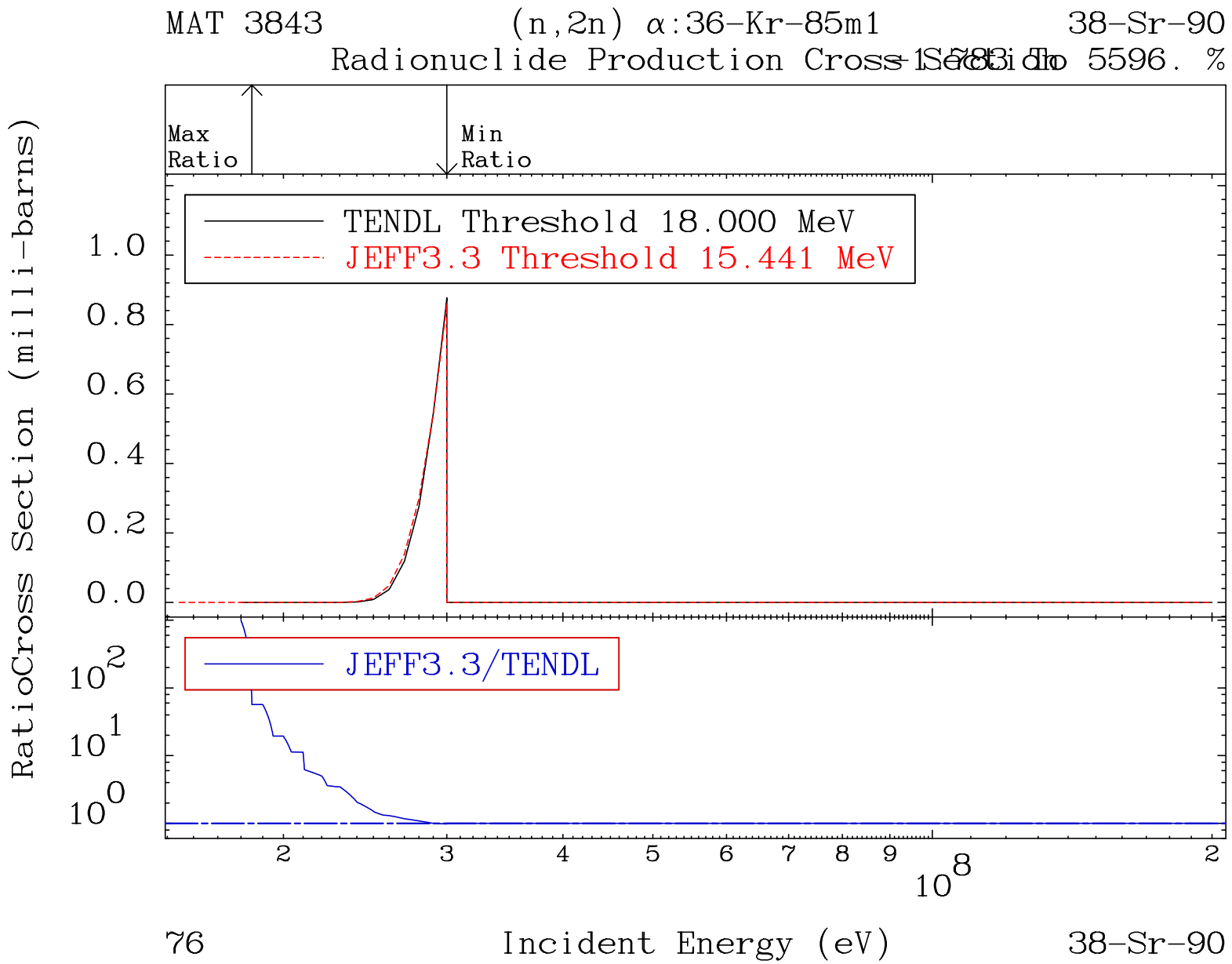

MAT 3843
Dpa total (eV-barns)
38-Sr-90
Cross Section -99.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
38-Sr-90

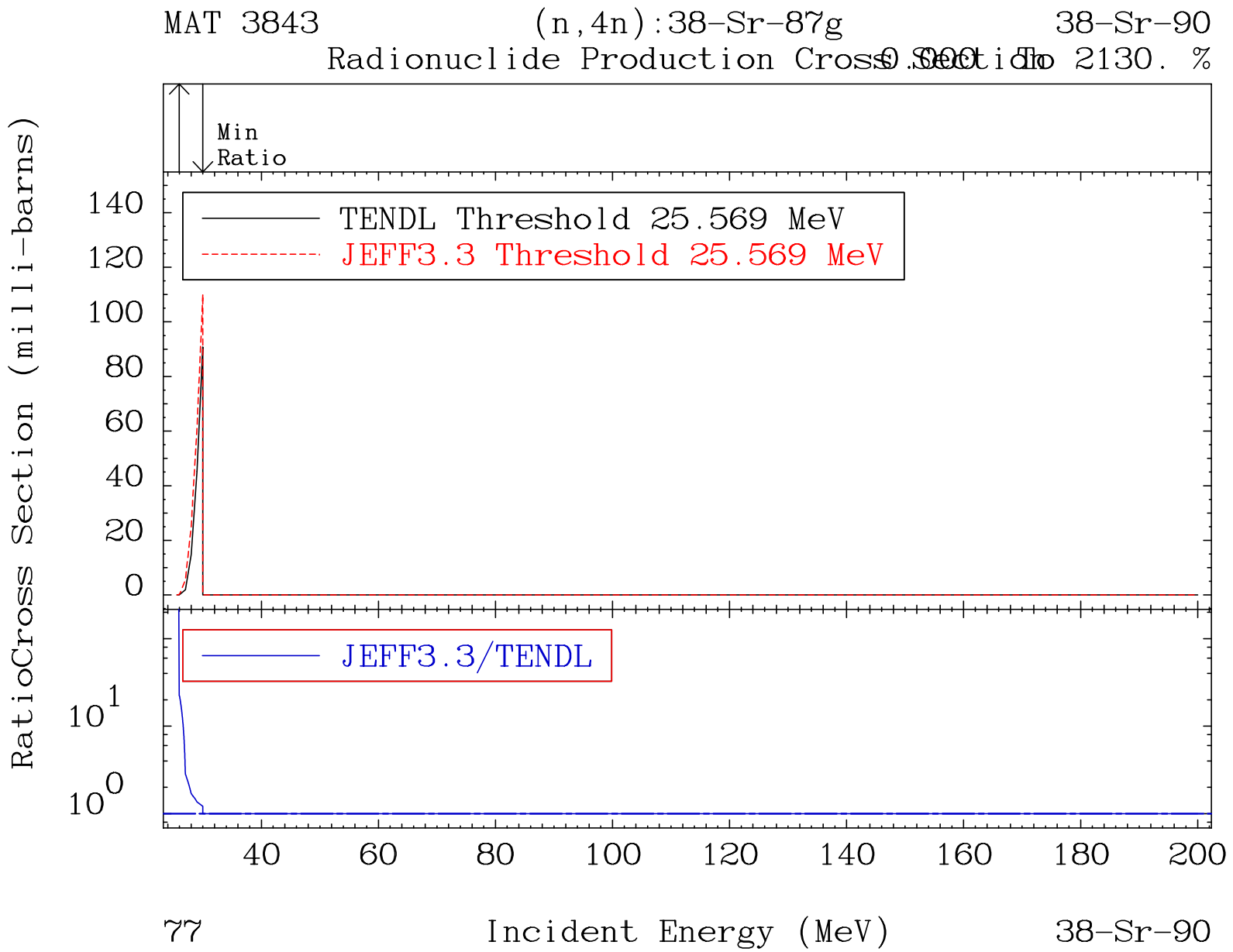

MAT 3843
Dpa elastic (mt2)
Cross Section
38-Sr-90
-99.96 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 531.25 eV
JEFF3.3 Threshold 625.00 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
38-Sr-90

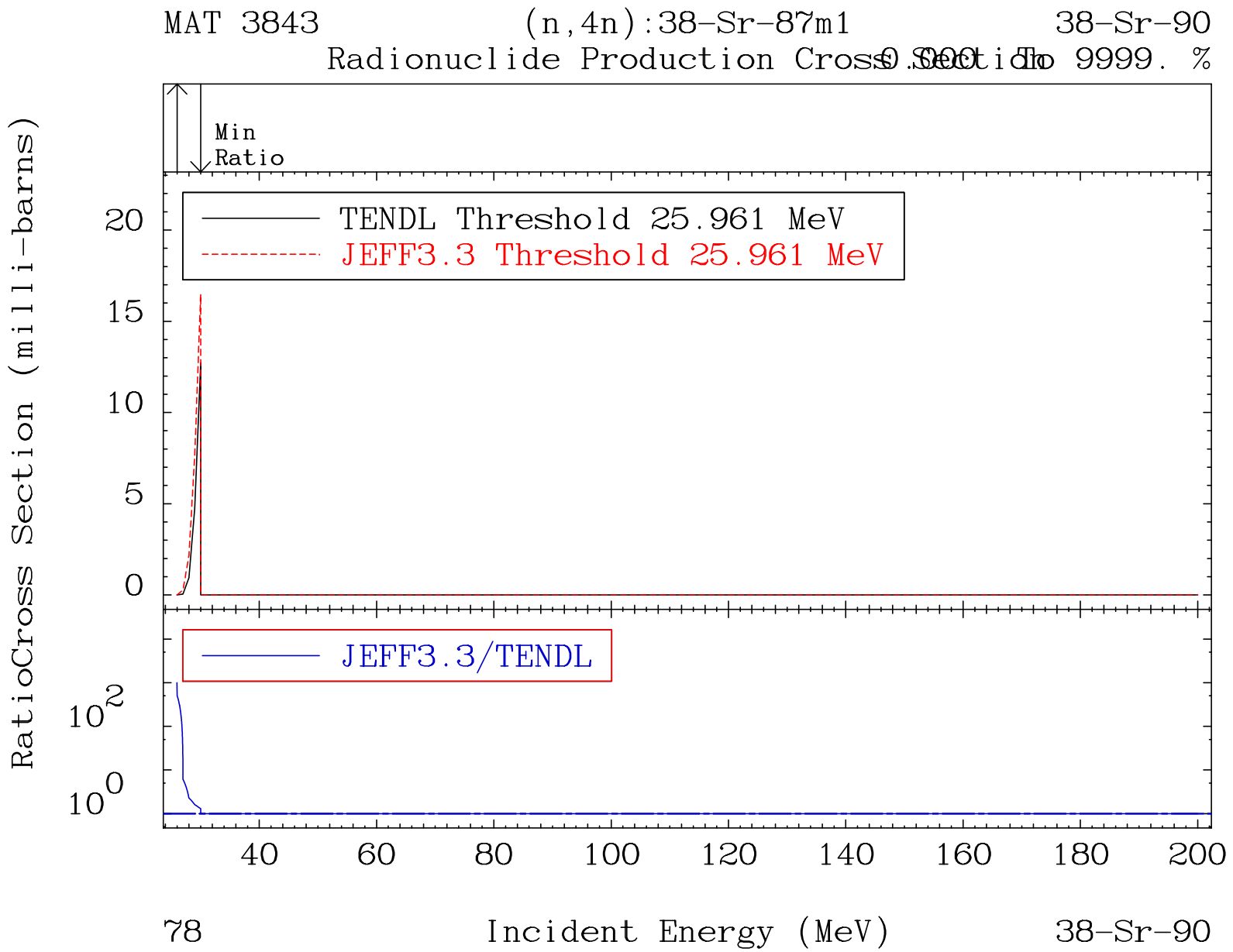

MAT 3843
Dpa inelastic (mt51-91)
38-Sr-90
Cross Section -0.854 To 2.937 %
Min Ratio
Max Ratio
TENDL Threshold 850.00 keV
JEFF3.3 Threshold 841.01 keV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
JEFF3.3/TENDL
Ratio
1.04
1.02
1.00
8 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
73
Incident Energy (eV)
38-Sr-90

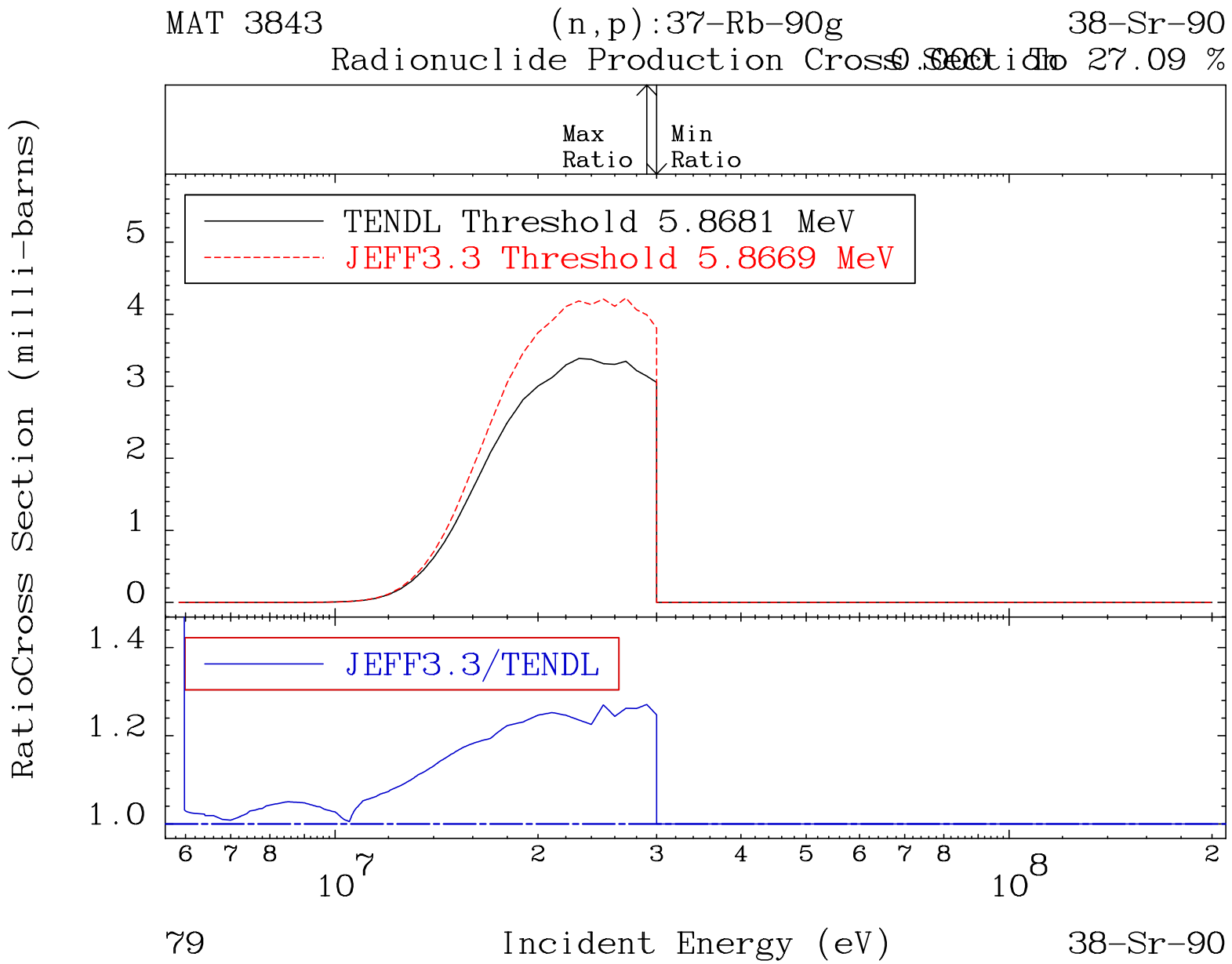

MAT 3843 Dpa disappearance (mt102 -120) 38-Sr-90
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
38-Sr-90

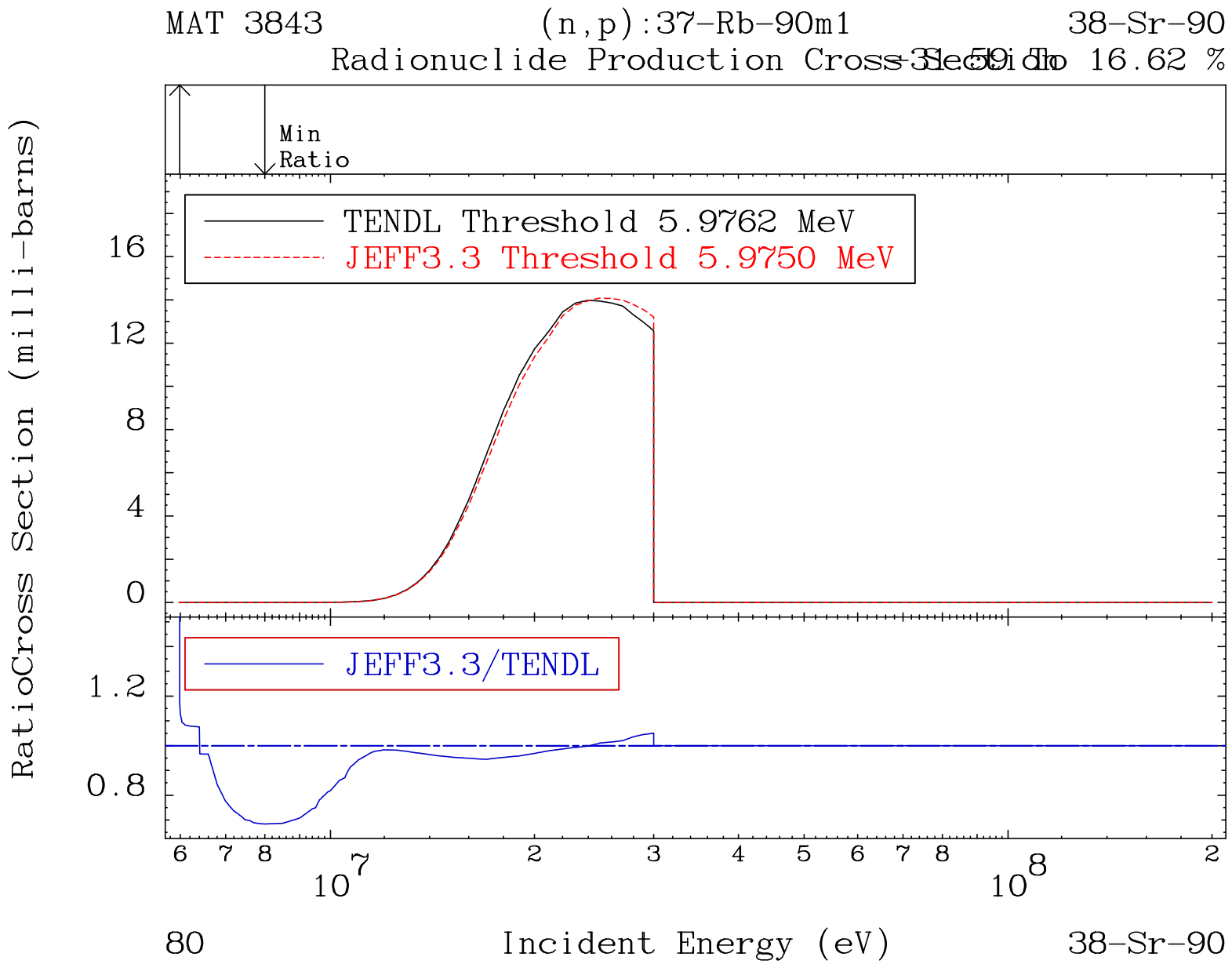

MAT 3843
(n,2n) α:36-Kr-85g
38-Sr-90
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 15.135 MeV
JEFF3.3 Threshold 15.133 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75
38-Sr-90

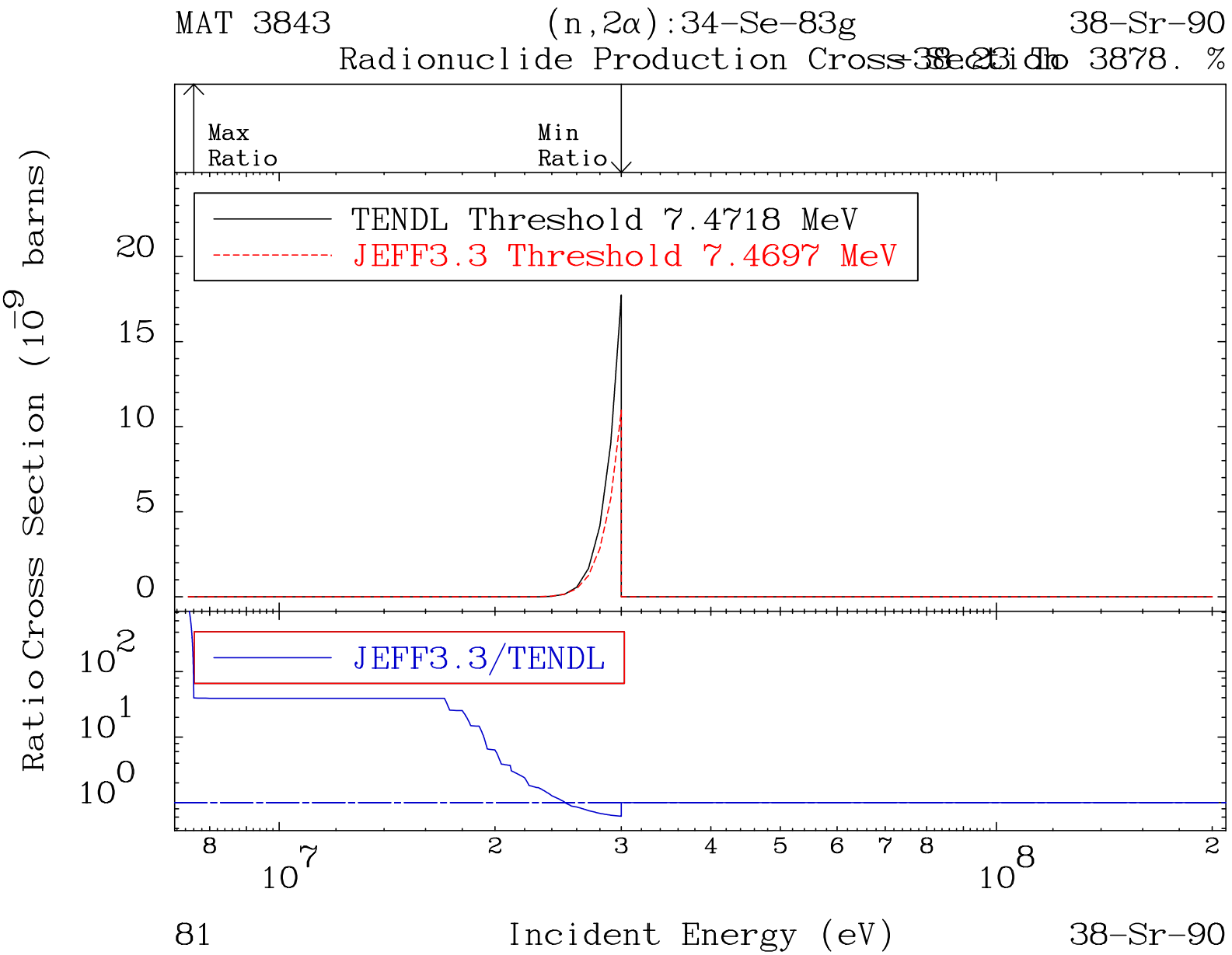

MAT 3843
(n,2n) α:36-Kr-85m1
38-Sr-90
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 18.000 MeV
JEFF3.3 Threshold 15.441 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
38-Sr-90

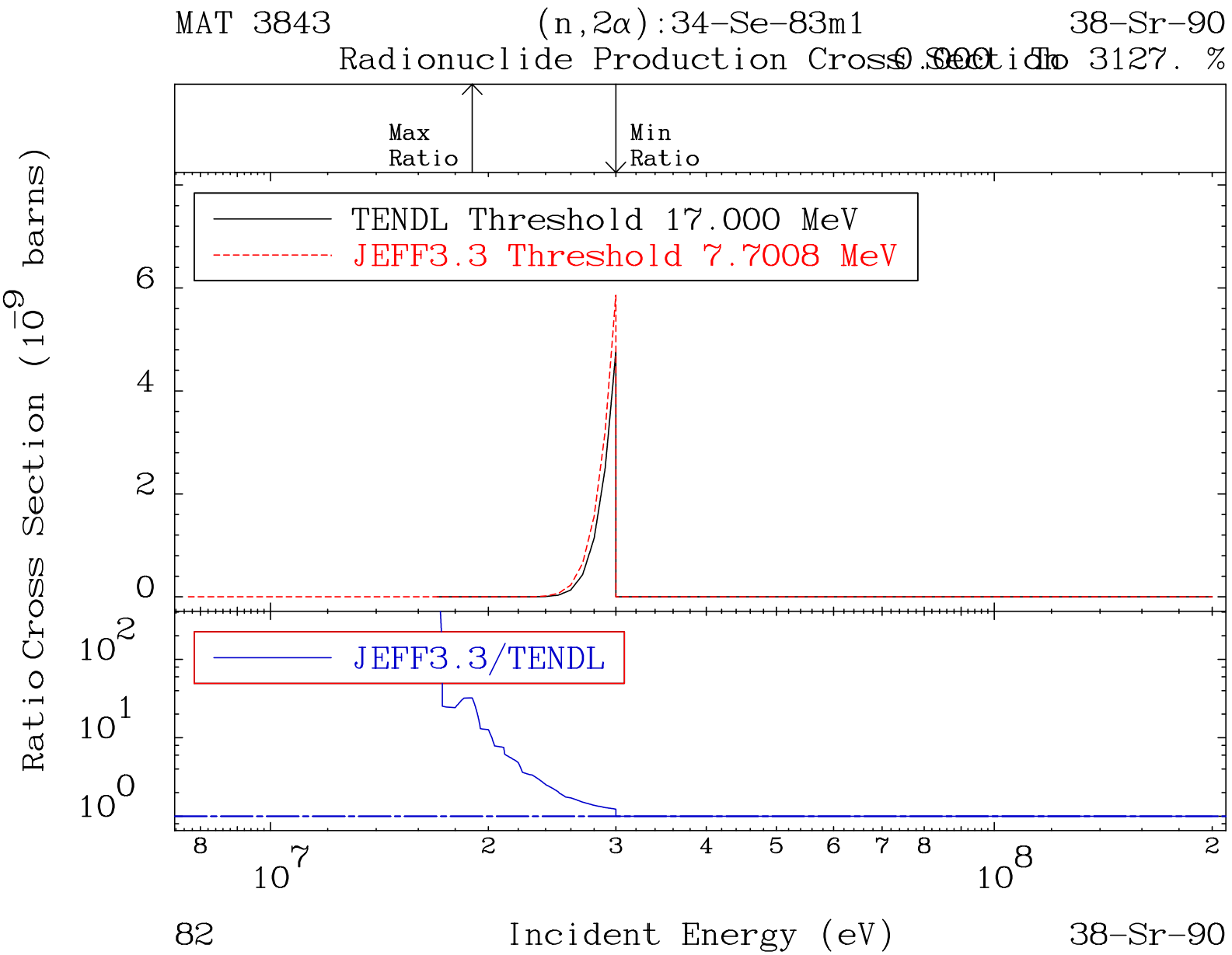

MAT 3843
(n,4n):38-Sr-87g
38-Sr-90
Radionuclide Production Cross Section
0.000 To 2130. %
Min
Ratio
TENDL Threshold 25.569 MeV
JEFF3.3 Threshold 25.569 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^1
10^0
40
60
80
100
120
140
160
180
200
77
Incident Energy (MeV)
38-Sr-90


MAT 3843
(n,4n):38-Sr-87m1
38-Sr-90
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 25.961 MeV
JEFF3.3 Threshold 25.961 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^2
10^0
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
38-Sr-90


MAT 3843
(n,p):37-Rb-90g
38-Sr-90
Radionuclide Production Cross Section
0.000 To 27.09 %
Max Ratio
Min Ratio
TENDL Threshold 5.8681 MeV
JEFF3.3 Threshold 5.8669 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
38-Sr-90


MAT 3843
(n,p):37-Rb-90m1
38-Sr-90
Radionuclide Production Cross-Section
Min
Ratio
TENDL Threshold 5.9762 MeV
JEFF3.3 Threshold 5.9750 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.8
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
80
Incident Energy (eV)
38-Sr-90


MAT 3843
(n,2α):34-Se-83g
38-Sr-90
Radionuclide Production Cross Section To 3878. %
Max Ratio
Min Ratio
TENDL Threshold 7.4718 MeV
JEFF3.3 Threshold 7.4697 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
20
15
10
5
0
10^2
10^1
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
81
Incident Energy (eV)
38-Sr-90


MAT 3843
(n,2α):34-Se-83m1
38-Sr-90
Radionuclide Production Cross Section
0.000 To 3127. %
Max Ratio
Min Ratio
TENDL Threshold 17.000 MeV
JEFF3.3 Threshold 7.7008 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
0
2
4
6
10^0
10^1
10^2
8
2
3
4
5
6
7
8
2
10^7
10^8
82
Incident Energy (eV)
38-Sr-90