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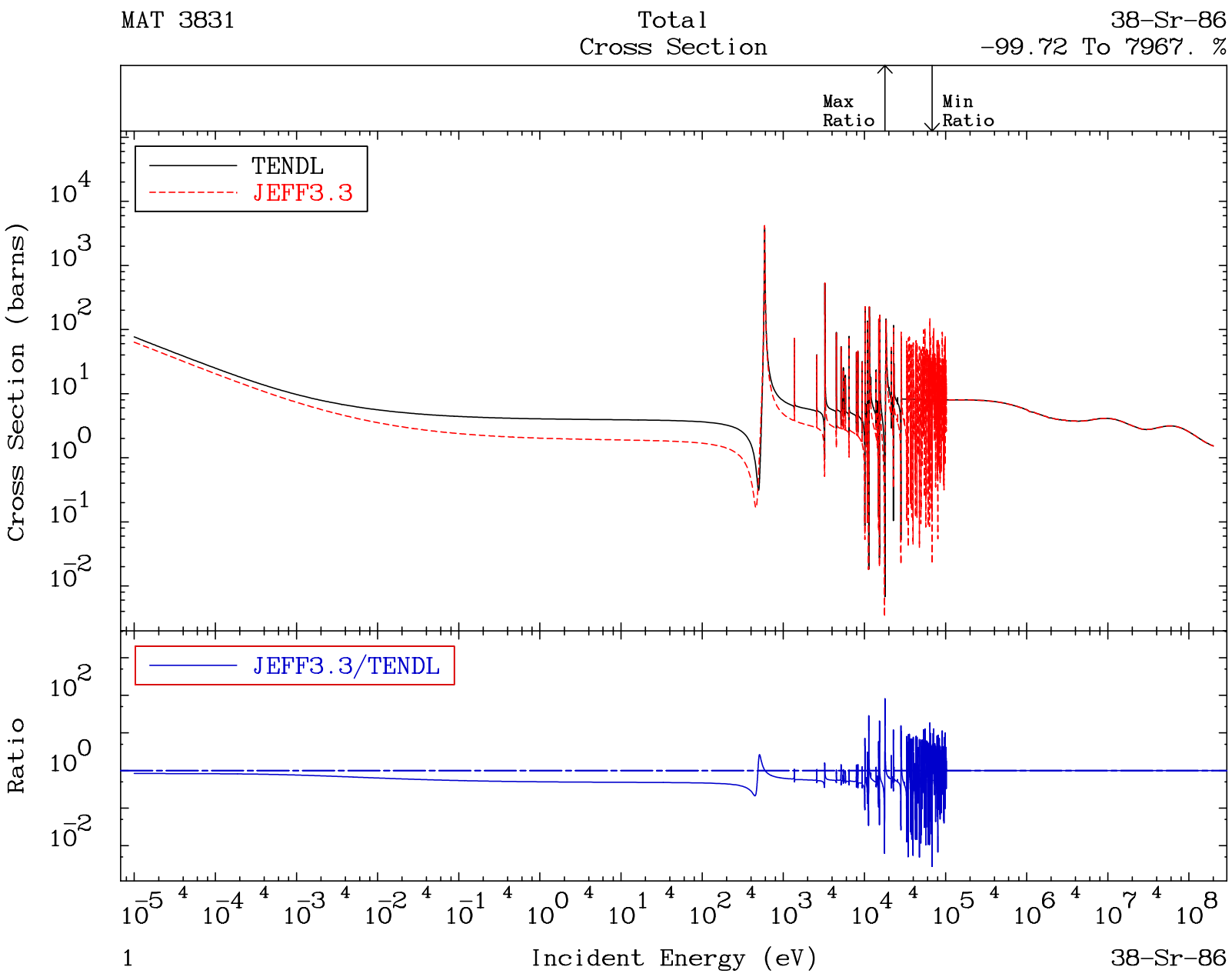
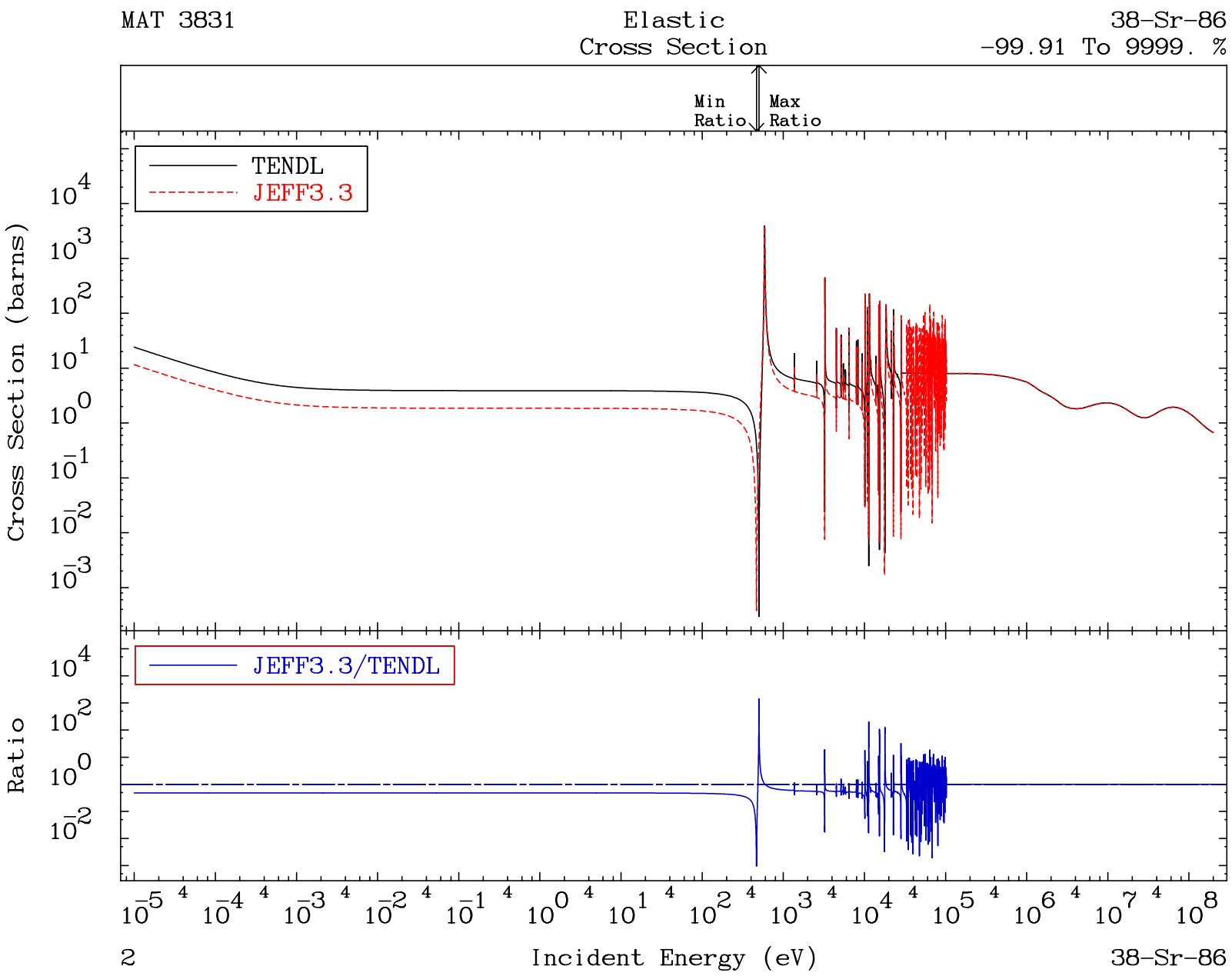
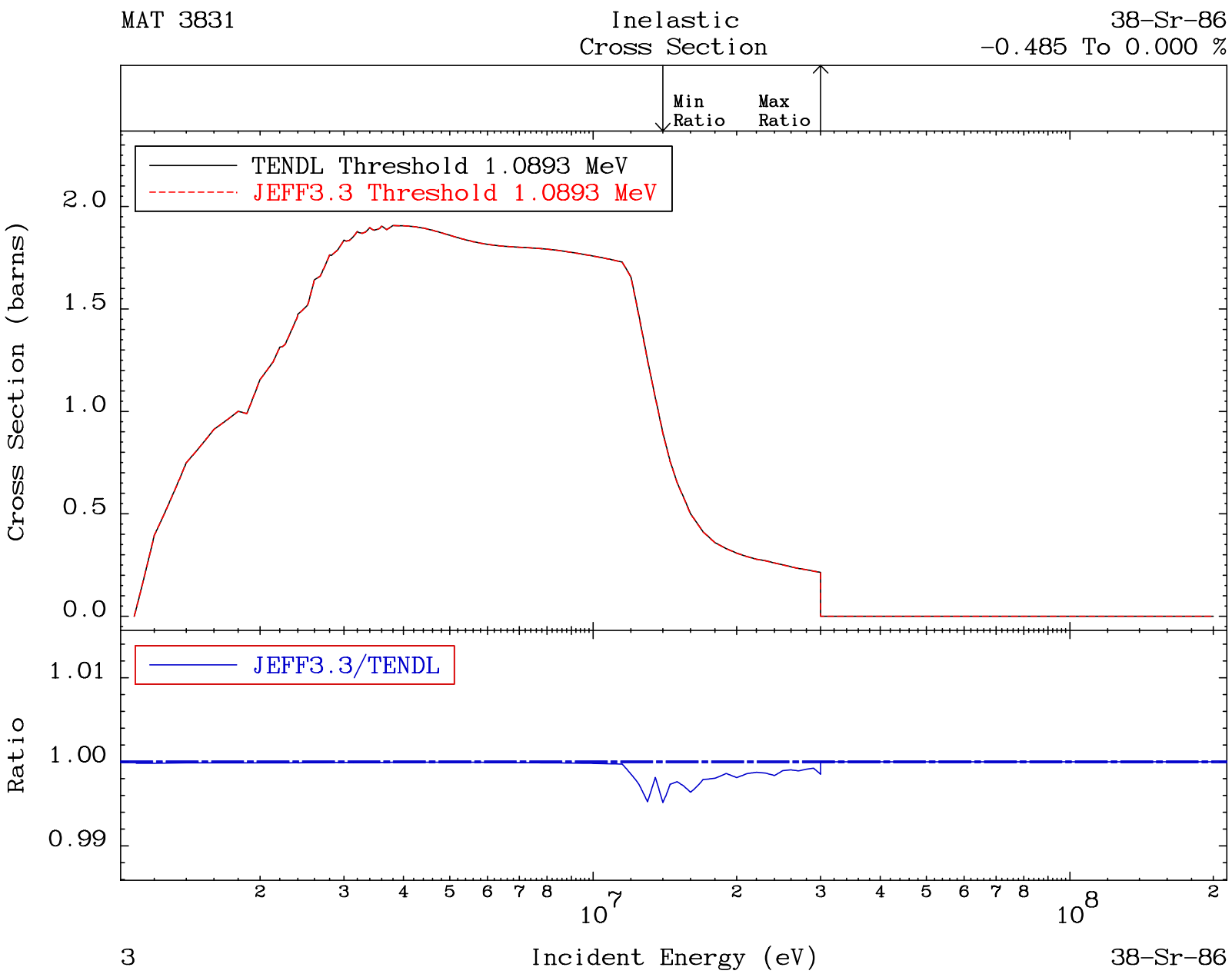
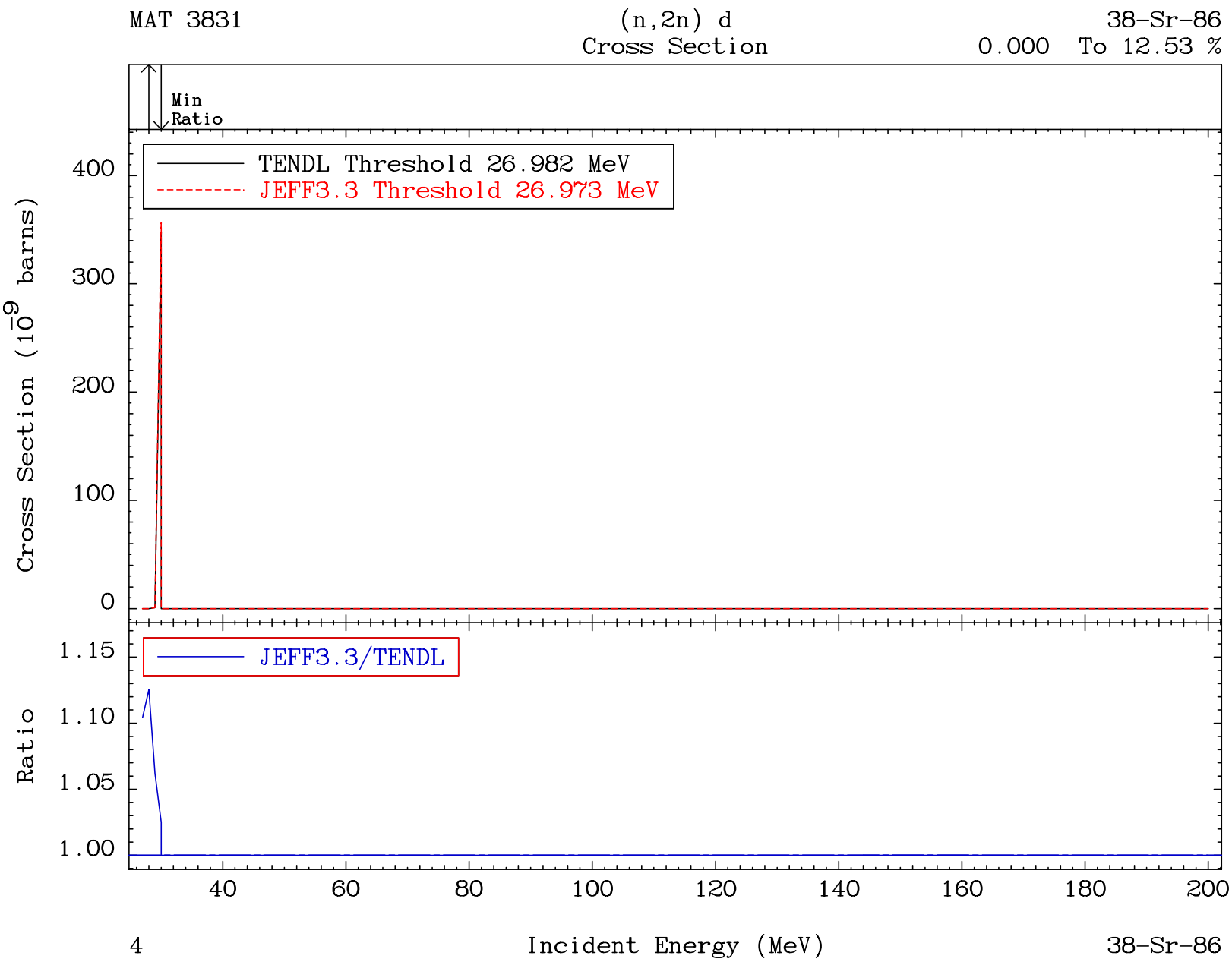
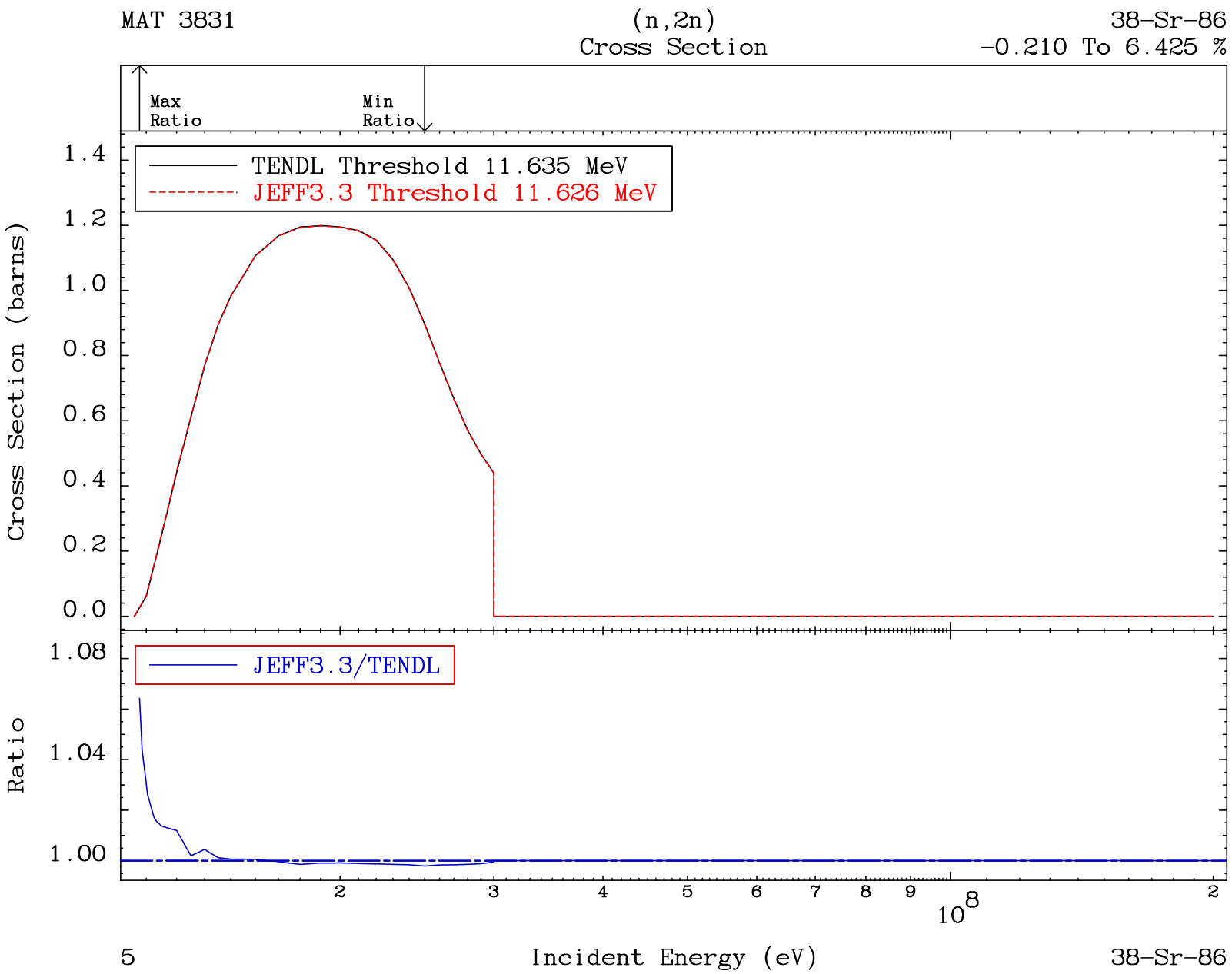
Press Mouse Button to Start

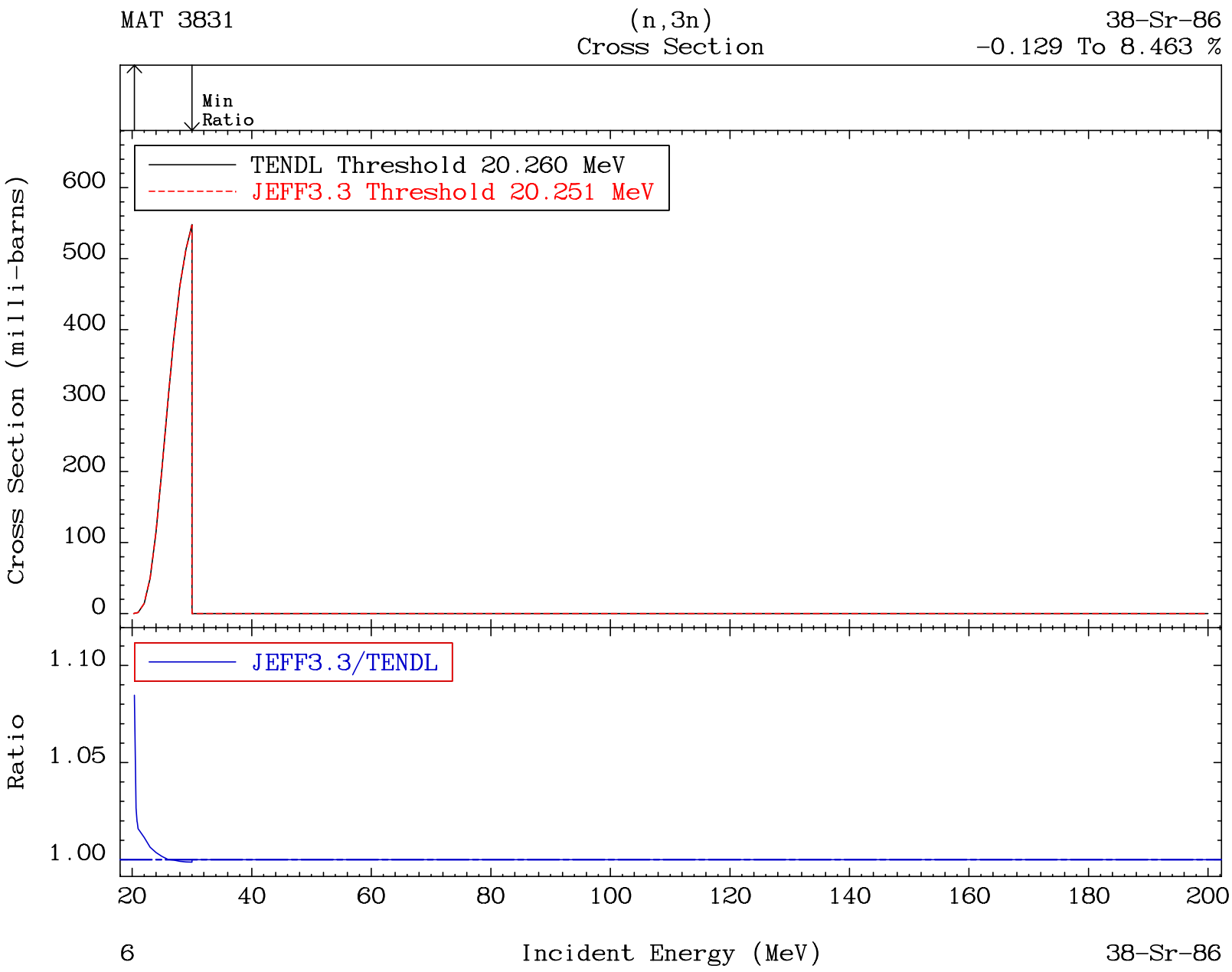

MAT 3831
Total
Cross Section
38-Sr-86
-99.72 To 7967. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
38-Sr-86

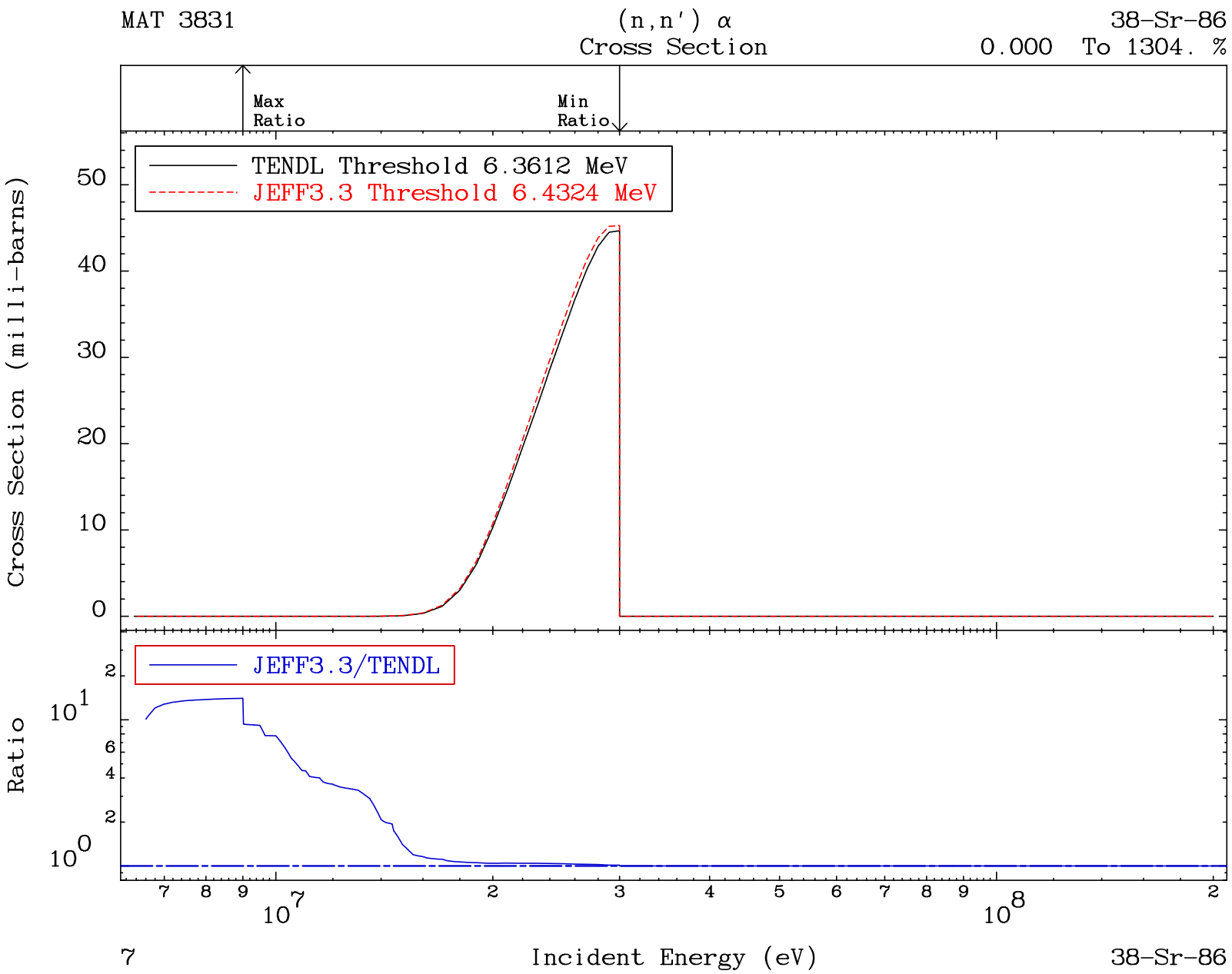

MAT 3831
Elastic
Cross Section
38-Sr-86
-99.91 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
38-Sr-86

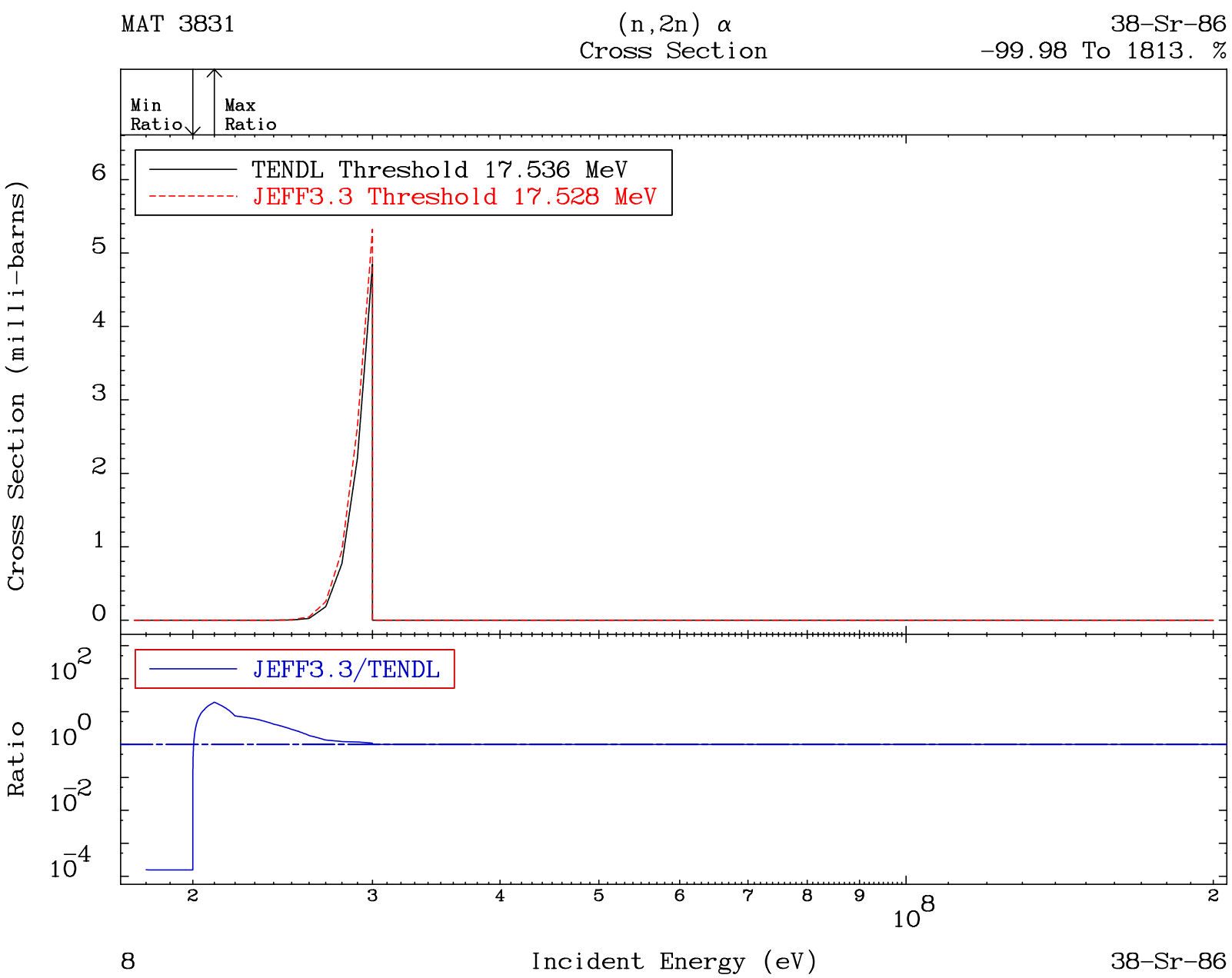

MAT 3831
Inelastic
Cross Section
38-Sr-86
-0.485 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0893 MeV
JEFF3.3 Threshold 1.0893 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
38-Sr-86

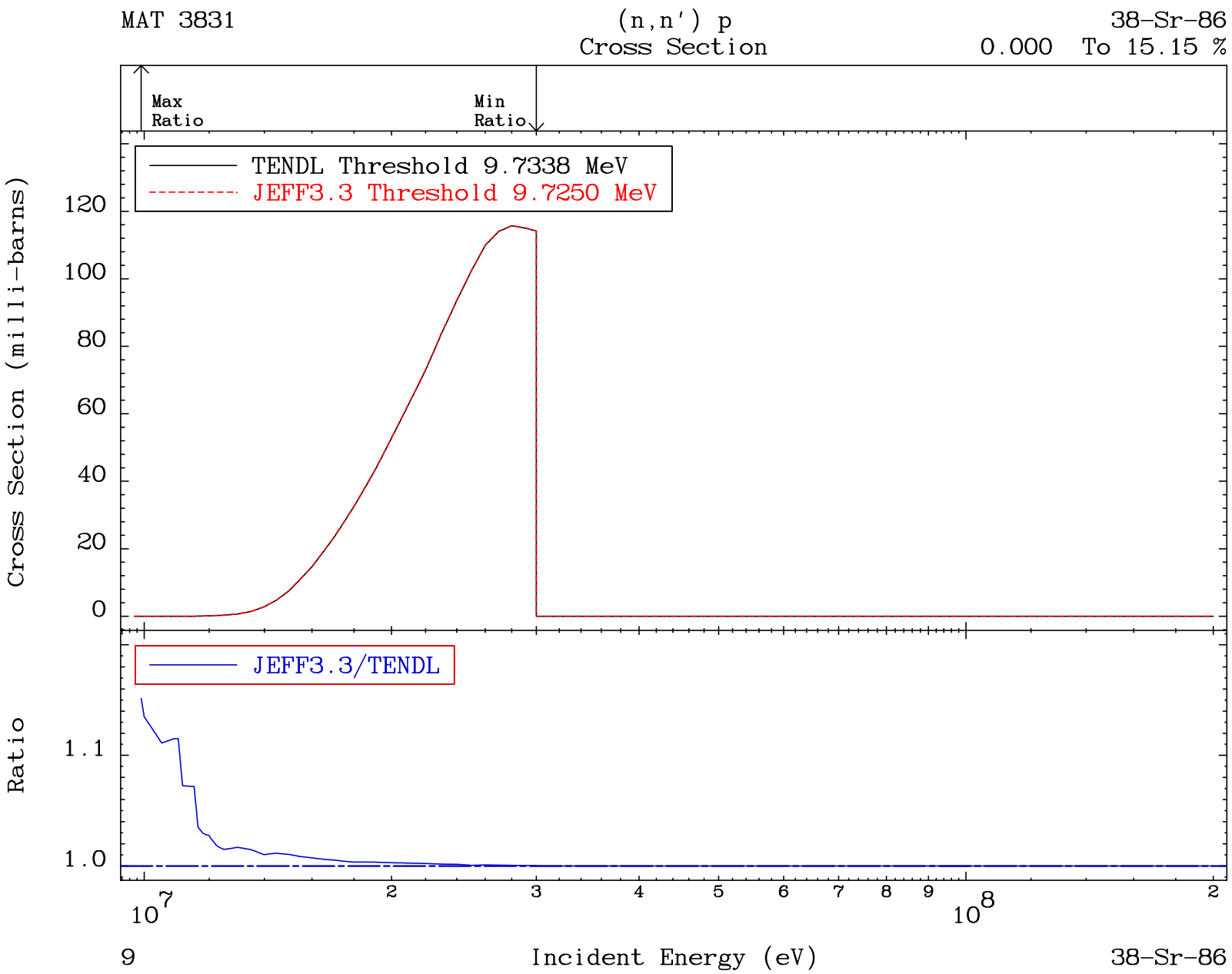

MAT 3831
(n,2n) d
Cross Section
38-Sr-86
0.000 To 12.53 %
Min
Ratio
TENDL Threshold 26.982 MeV
JEFF3.3 Threshold 26.973 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
38-Sr-86

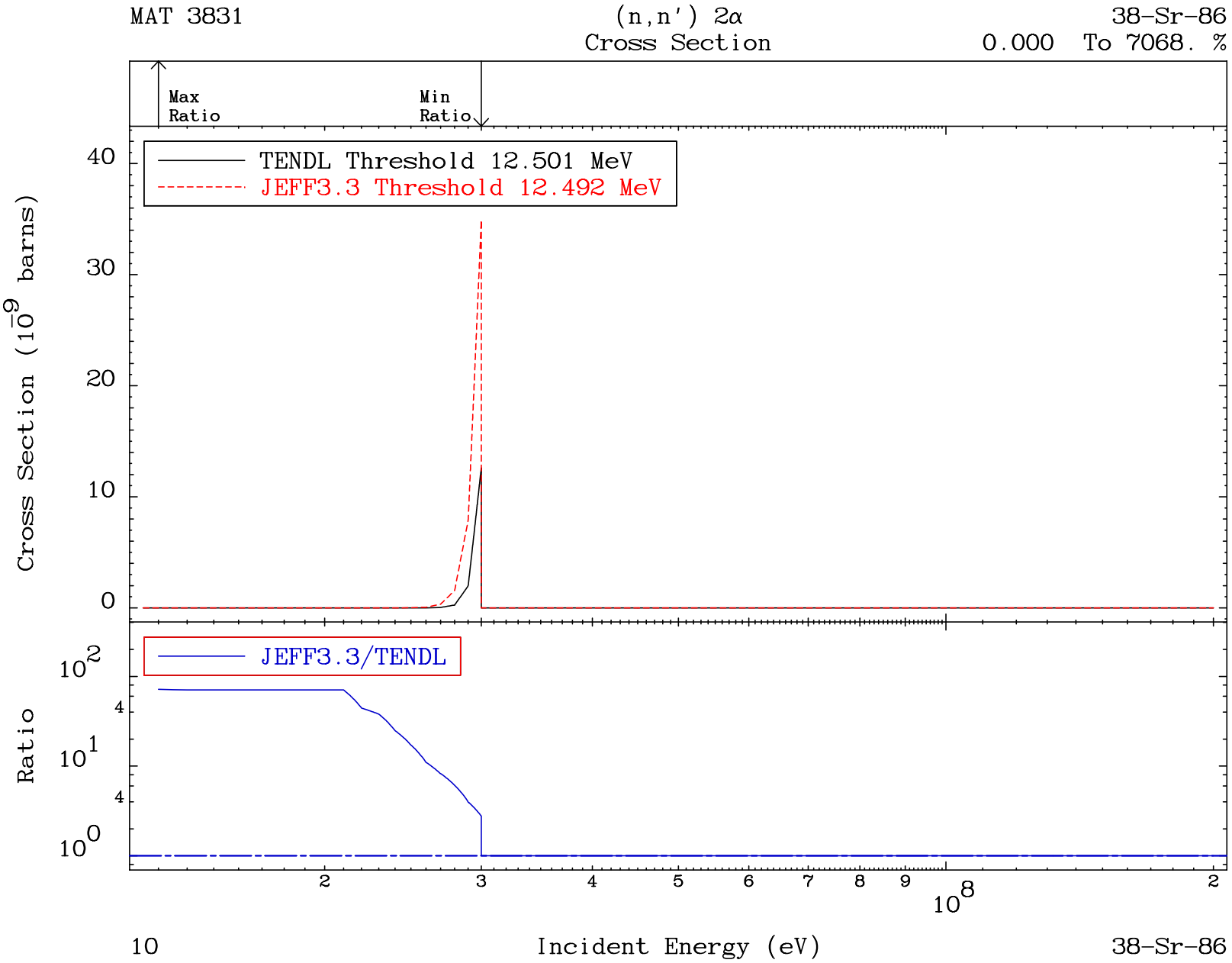

MAT 3831
(n,2n)
Cross Section
38-Sr-86
-0.210 To 6.425 %
Max Ratio
Min Ratio
TENDL Threshold 11.635 MeV
JEFF3.3 Threshold 11.626 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.08
1.04
1.00
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
38-Sr-86

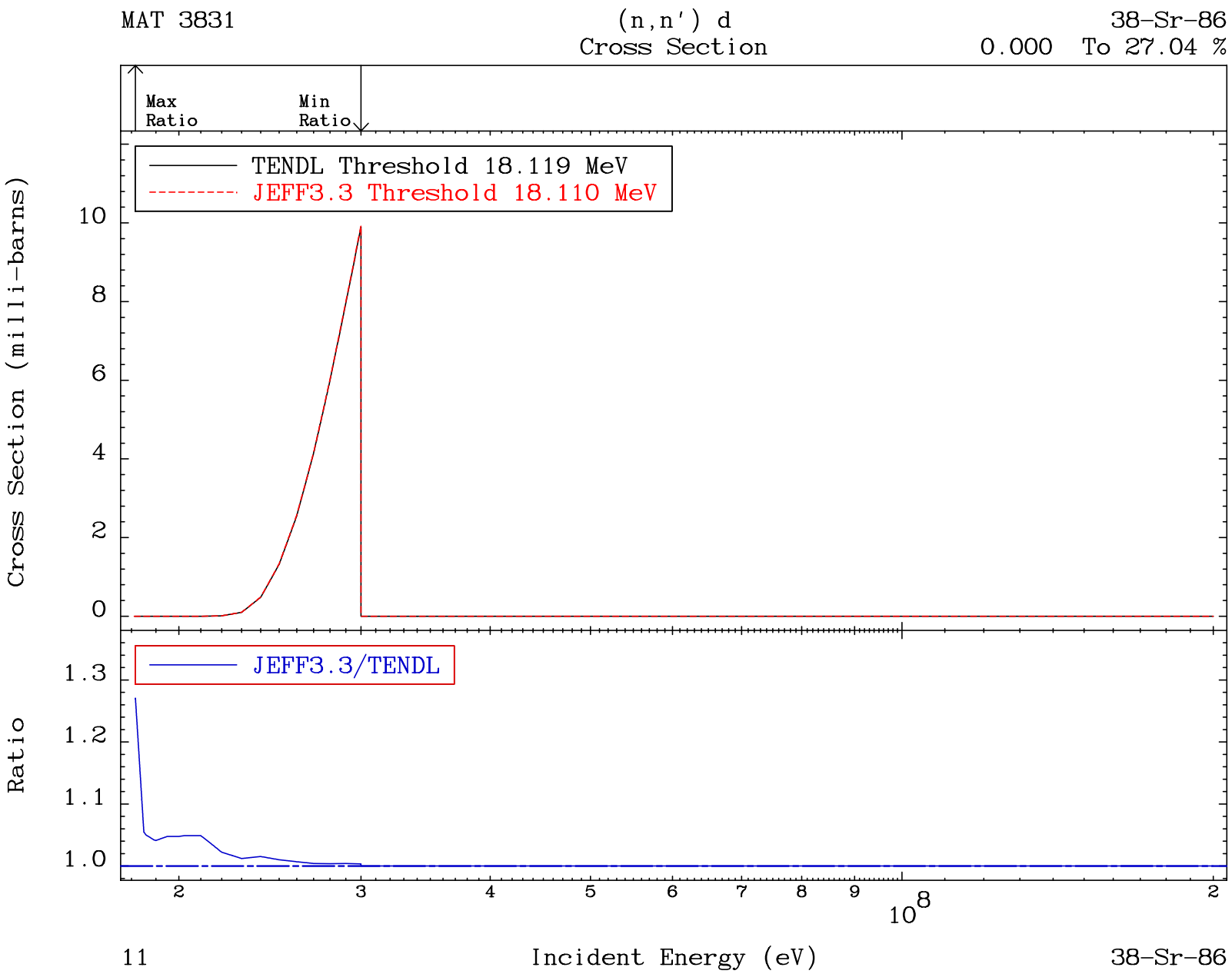

MAT 3831
(n,3n)
Cross Section
38-Sr-86
-0.129 To 8.463 %
Min
Ratio
TENDL Threshold 20.260 MeV
JEFF3.3 Threshold 20.251 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
20
40
60
80
100
120
140
160
180
200
6
Incident Energy (MeV)
38-Sr-86

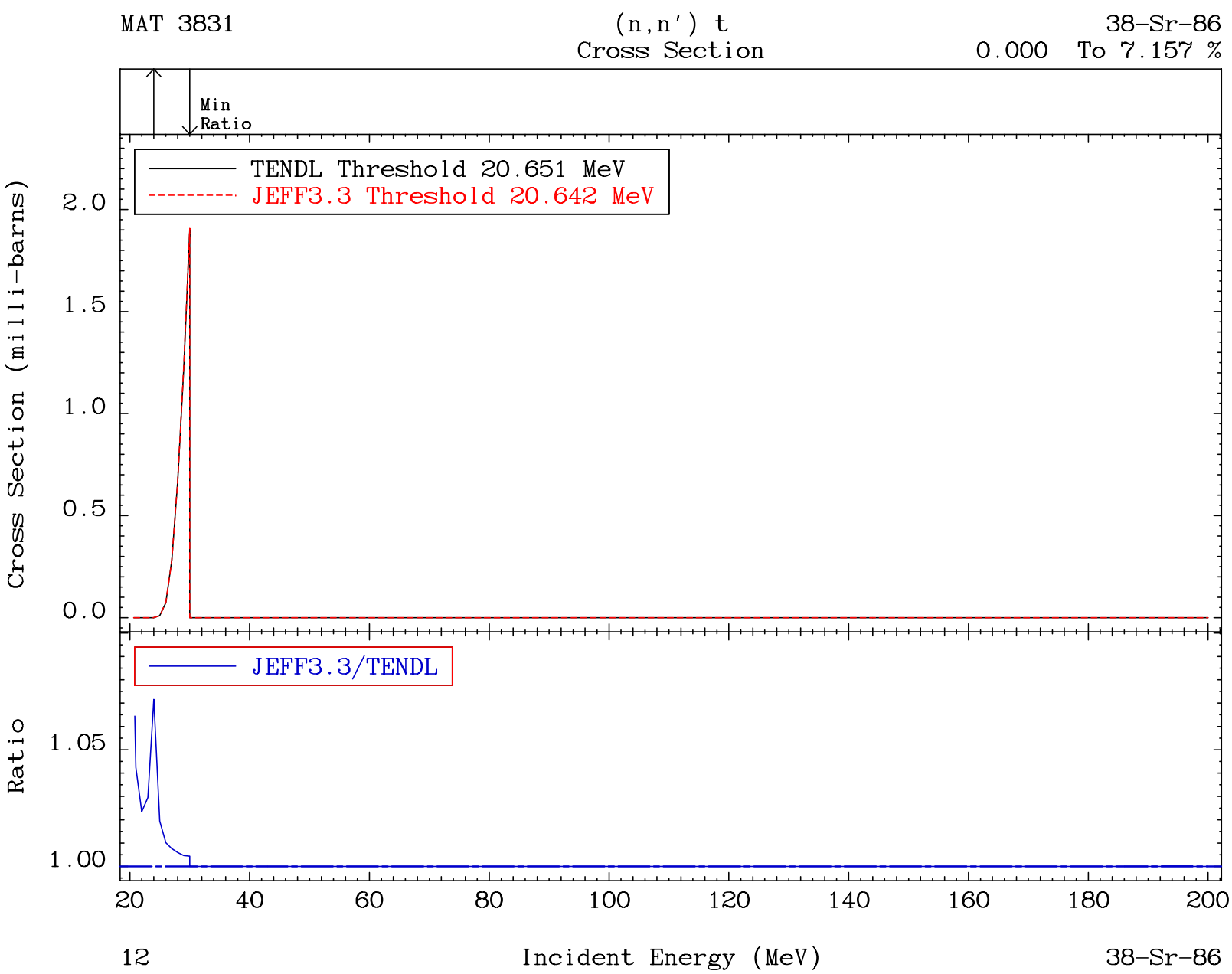

MAT 3831
(n,n') α
Cross Section
38-Sr-86
0.000 To 1304. %
Max Ratio
Min Ratio
TENDL Threshold 6.3612 MeV
JEFF3.3 Threshold 6.4324 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
7
38-Sr-86

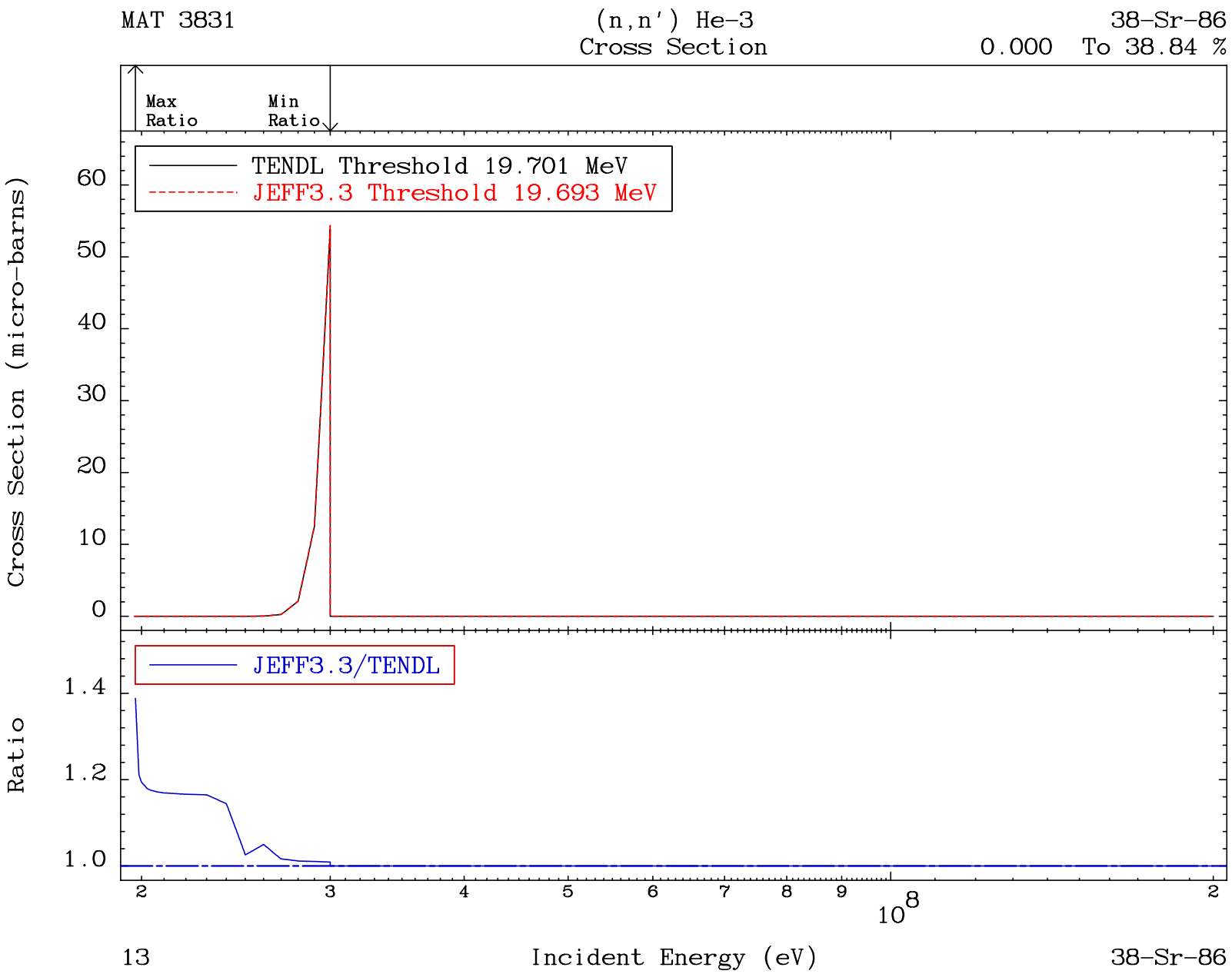

MAT 3831
(n,2n) α
Cross Section
38-Sr-86
-99.98 To 1813. %
Min Ratio
Max Ratio
TENDL Threshold 17.536 MeV
JEFF3.3 Threshold 17.528 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
38-Sr-86

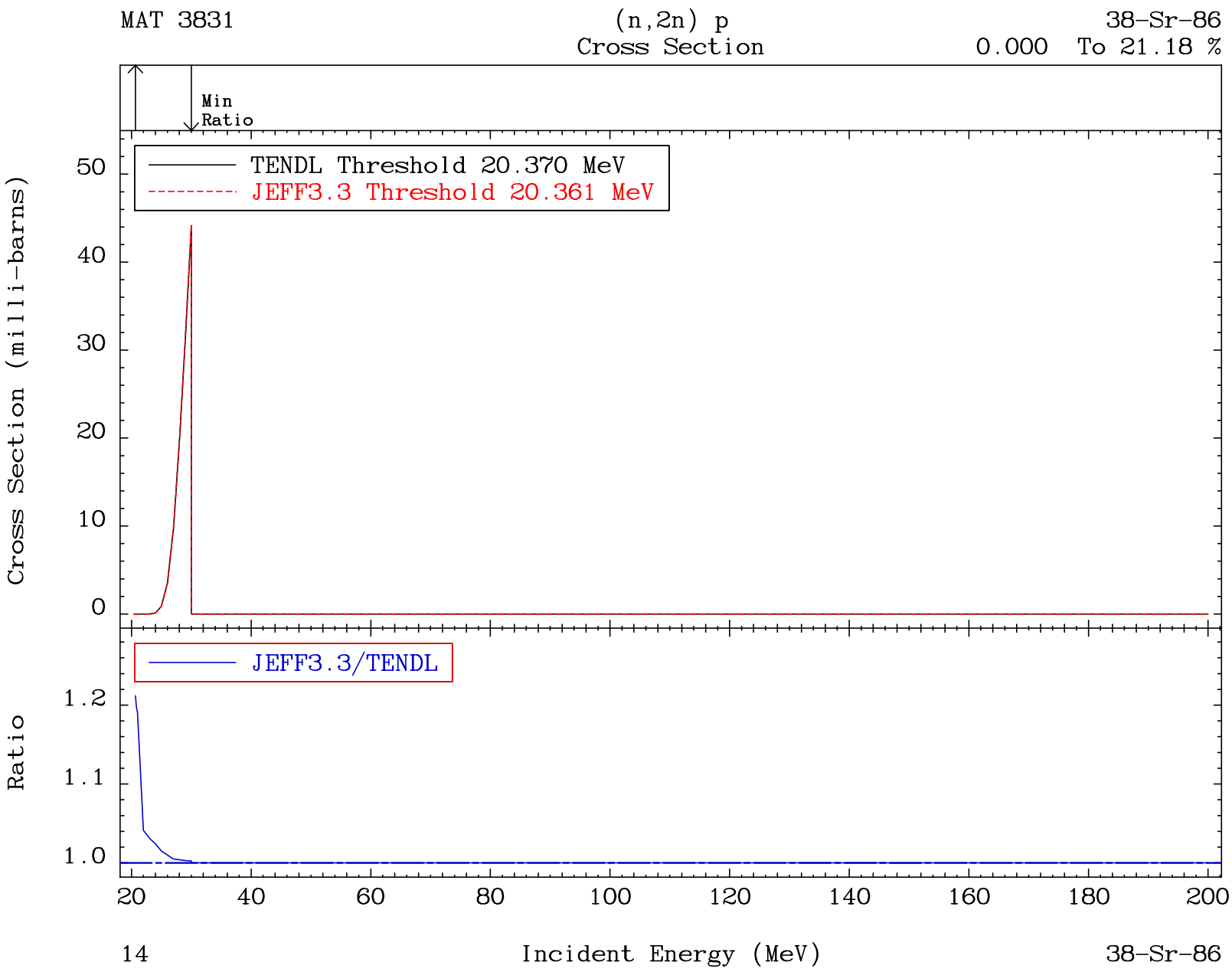

MAT 3831
(n,n') p
Cross Section
38-Sr-86
0.000 To 15.15 %
Max Ratio
Min Ratio
TENDL Threshold 9.7338 MeV
JEFF3.3 Threshold 9.7250 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
38-Sr-86

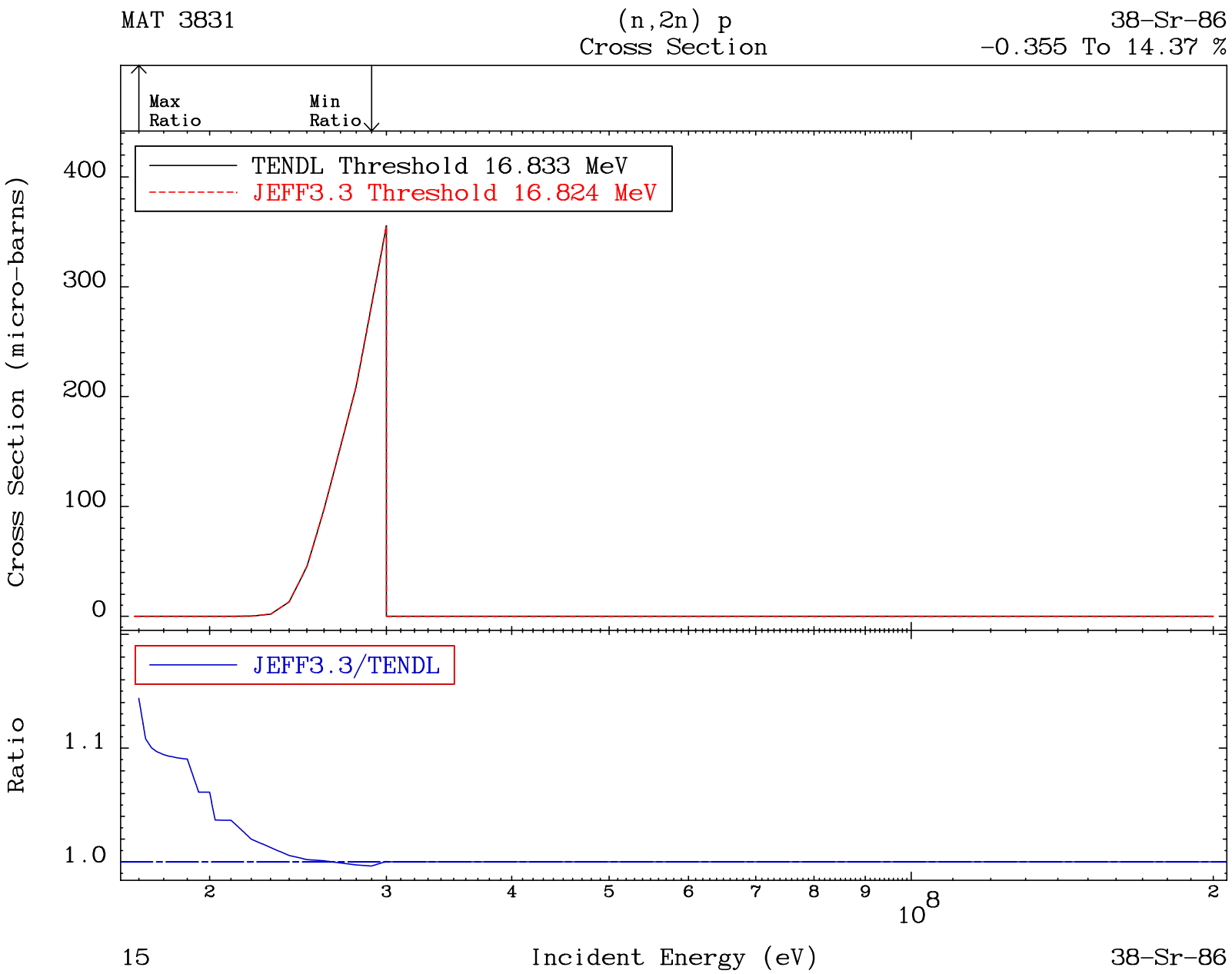

MAT 3831
(n,n') 2α
Cross Section
38-Sr-86
0.000 To 7068. %
Max Ratio
Min Ratio
TENDL Threshold 12.501 MeV
JEFF3.3 Threshold 12.492 MeV
Cross Section (10^-9 barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^2
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
38-Sr-86

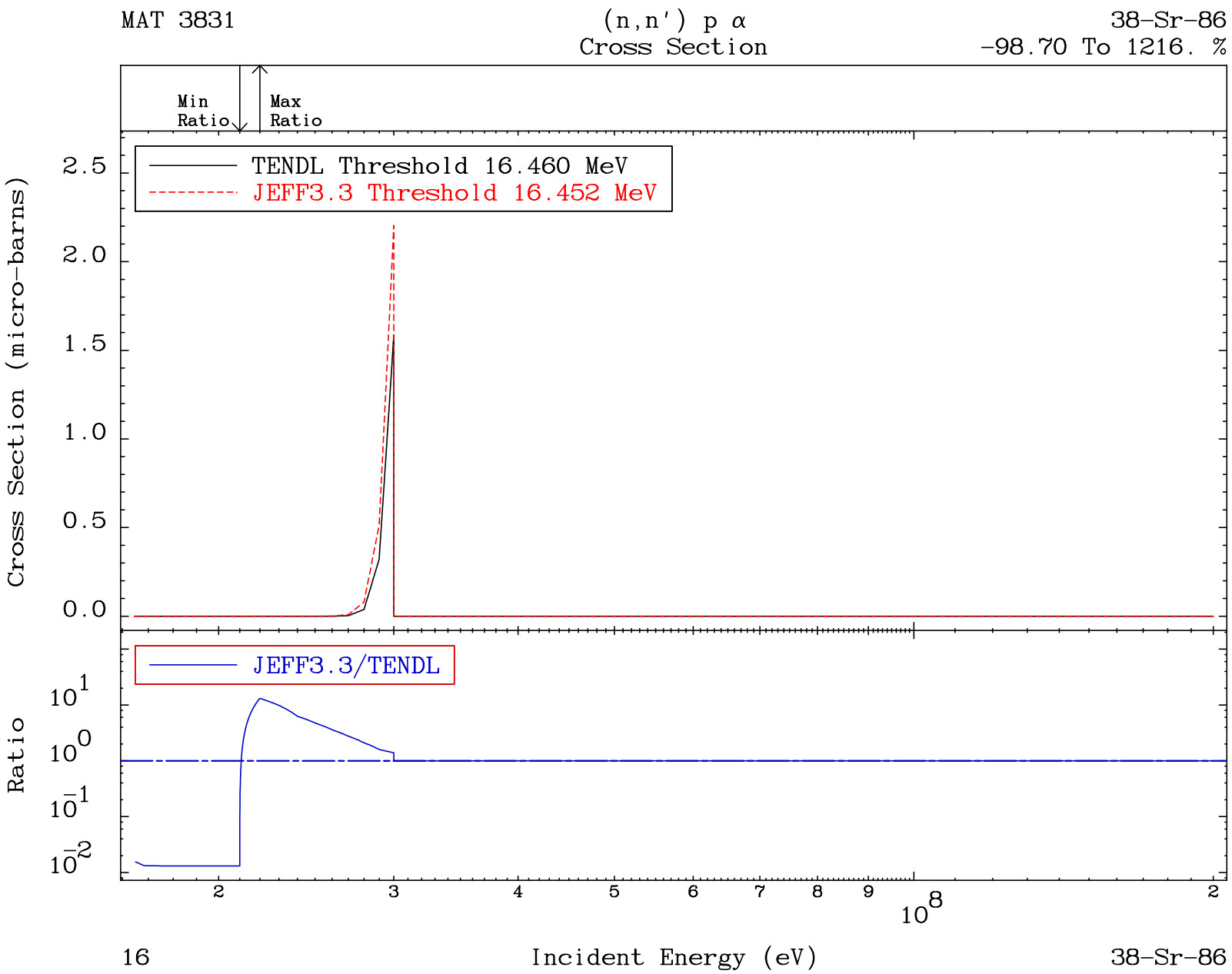

MAT 3831
(n,n') d
Cross Section
38-Sr-86
0.000 To 27.04 %
Max Ratio
Min Ratio
TENDL Threshold 18.119 MeV
JEFF3.3 Threshold 18.110 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
38-Sr-86

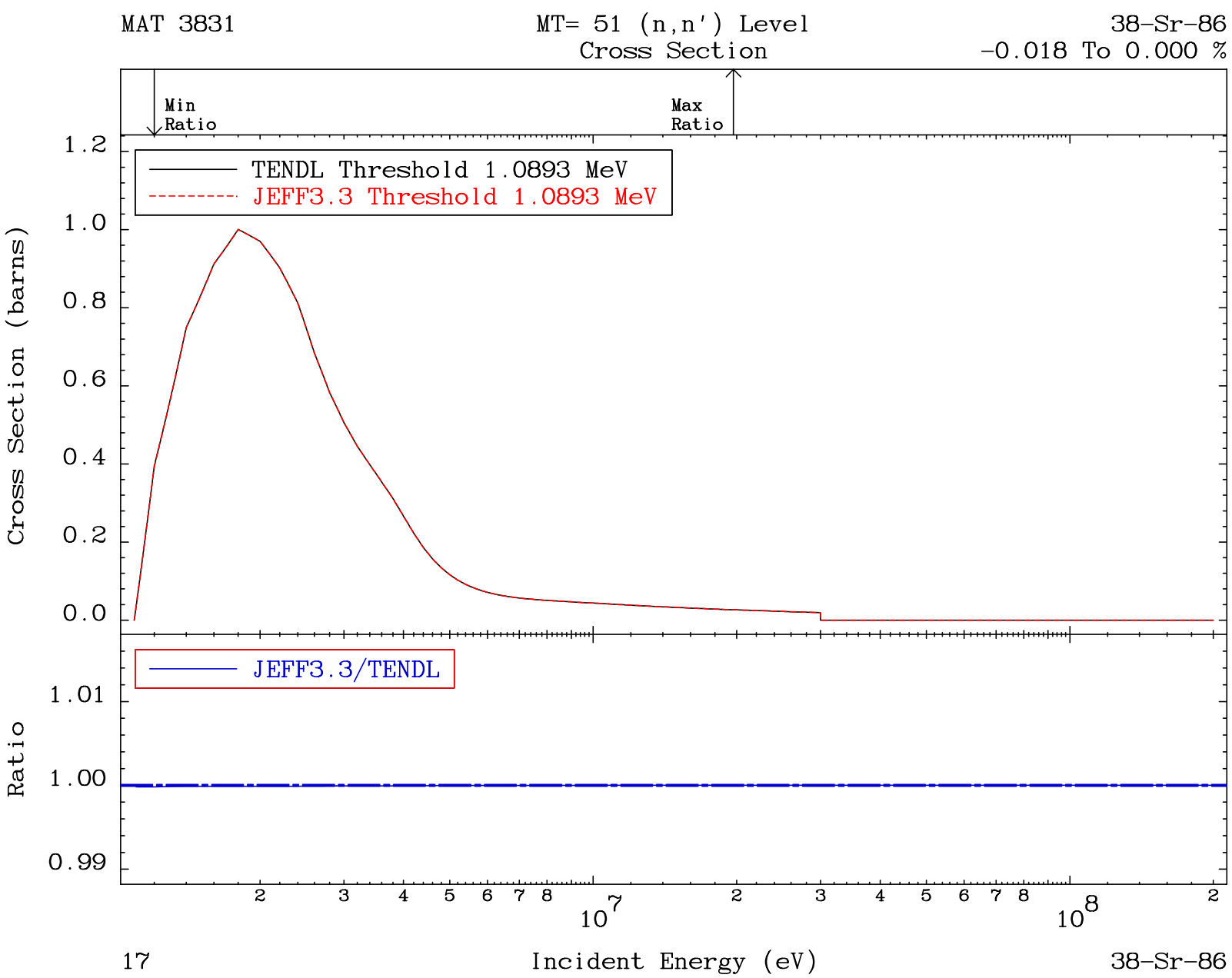

MAT 3831
(n,n') t
Cross Section
38-Sr-86
0.000 To 7.157 %
Min
Ratio
TENDL Threshold 20.651 MeV
JEFF3.3 Threshold 20.642 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.05
1.00
20
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
38-Sr-86

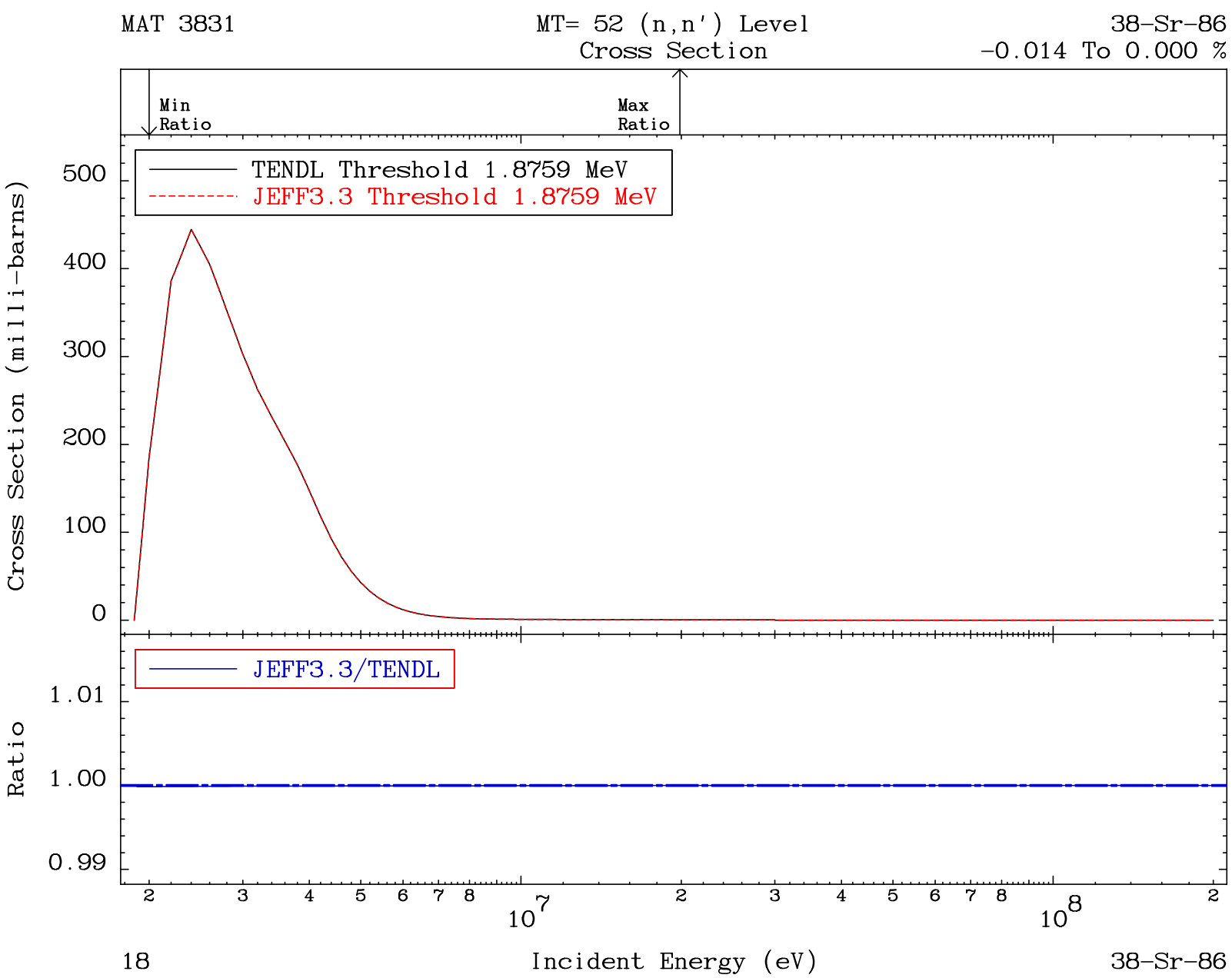

MAT 3831
(n,n') He-3
Cross Section
38-Sr-86
0.000 To 38.84 %
Max Ratio
Min Ratio
TENDL Threshold 19.701 MeV
JEFF3.3 Threshold 19.693 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
38-Sr-86

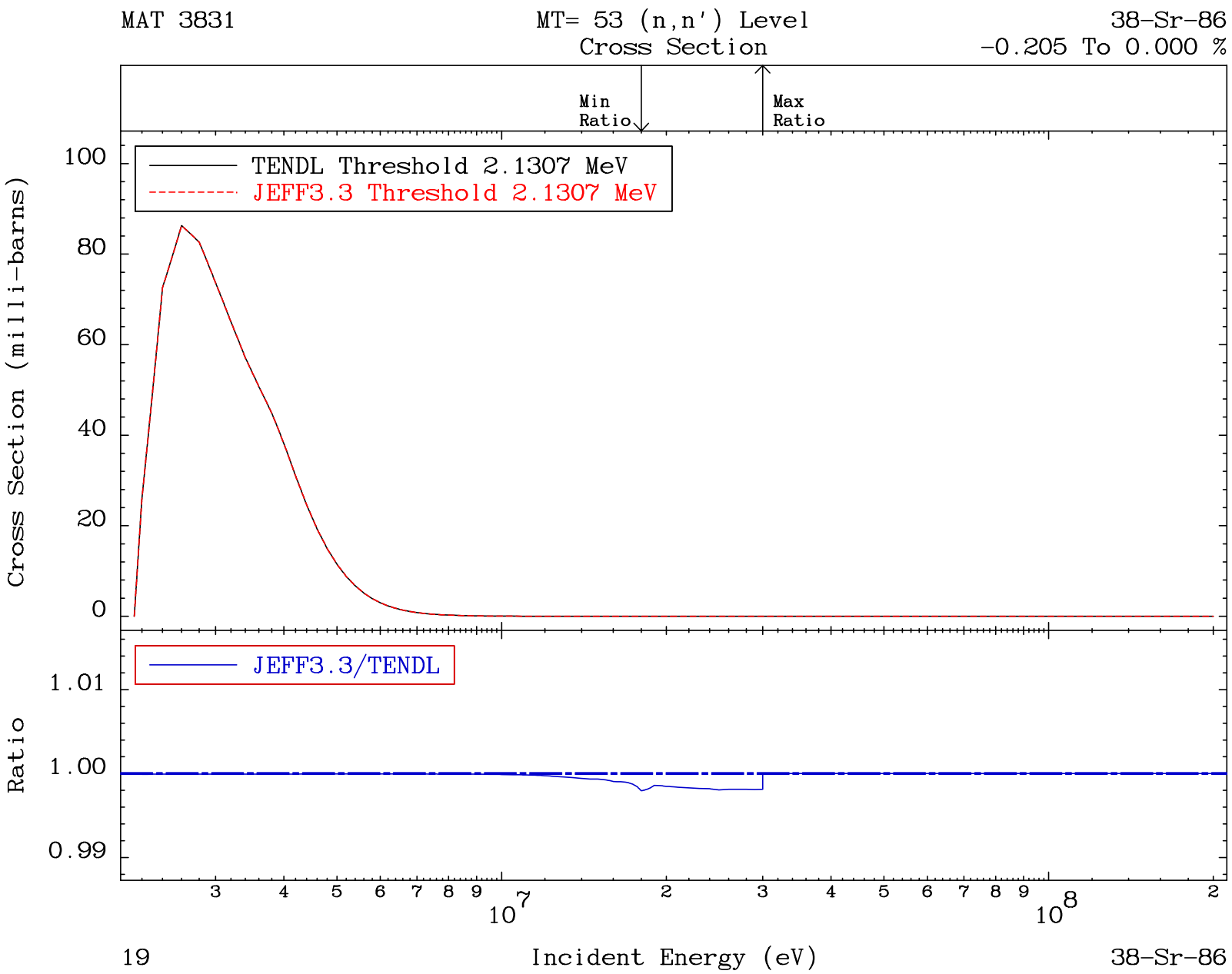

MAT 3831
(n,2n) p
Cross Section
38-Sr-86
0.000 To 21.18 %
Min
Ratio
TENDL Threshold 20.370 MeV
JEFF3.3 Threshold 20.361 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
20
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
38-Sr-86

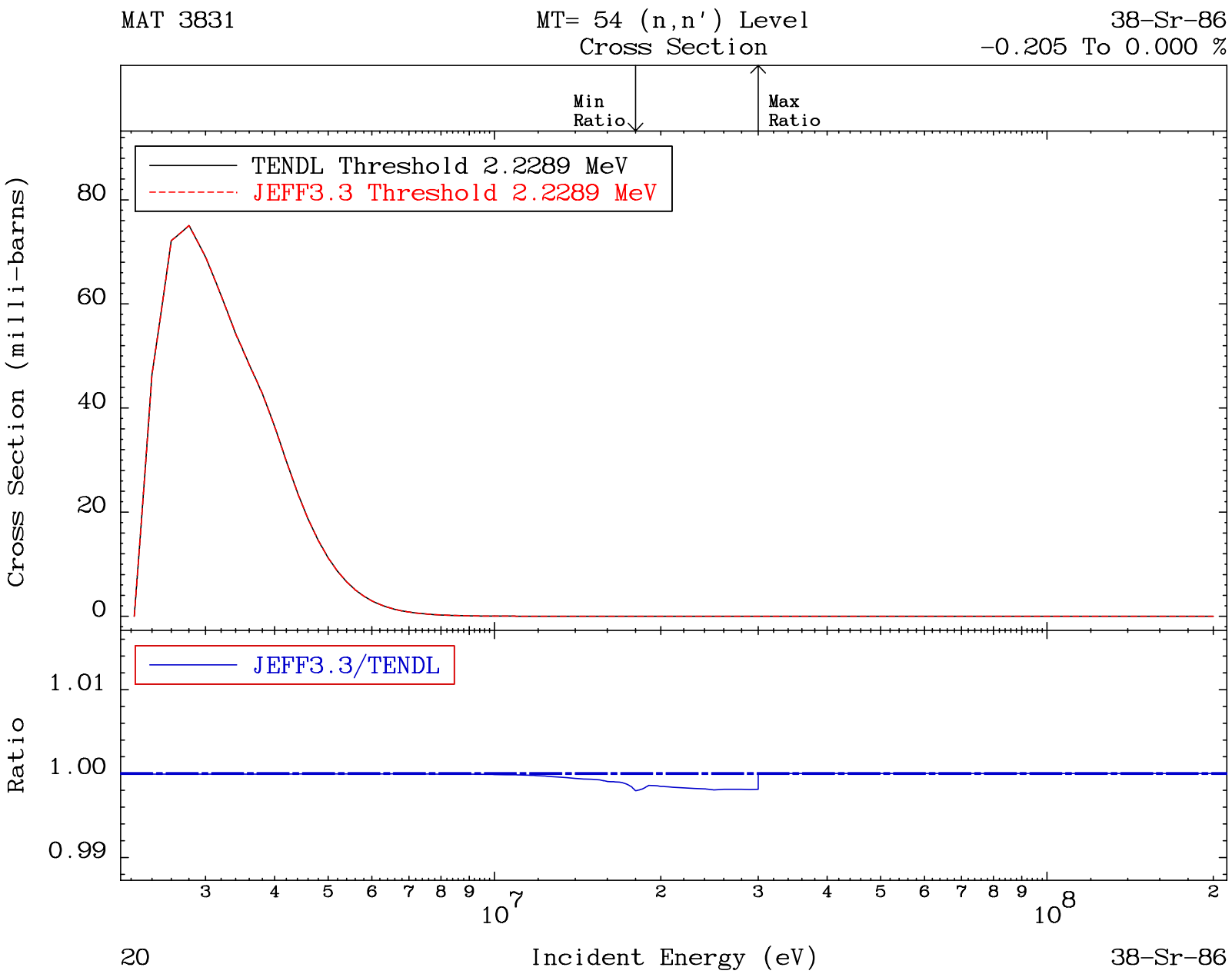

MAT 3831
(n,2n) p
Cross Section
38-Sr-86
-0.355 To 14.37 %
Max Ratio
Min Ratio
TENDL Threshold 16.833 MeV
JEFF3.3 Threshold 16.824 MeV
Cross Section (micro-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
38-Sr-86

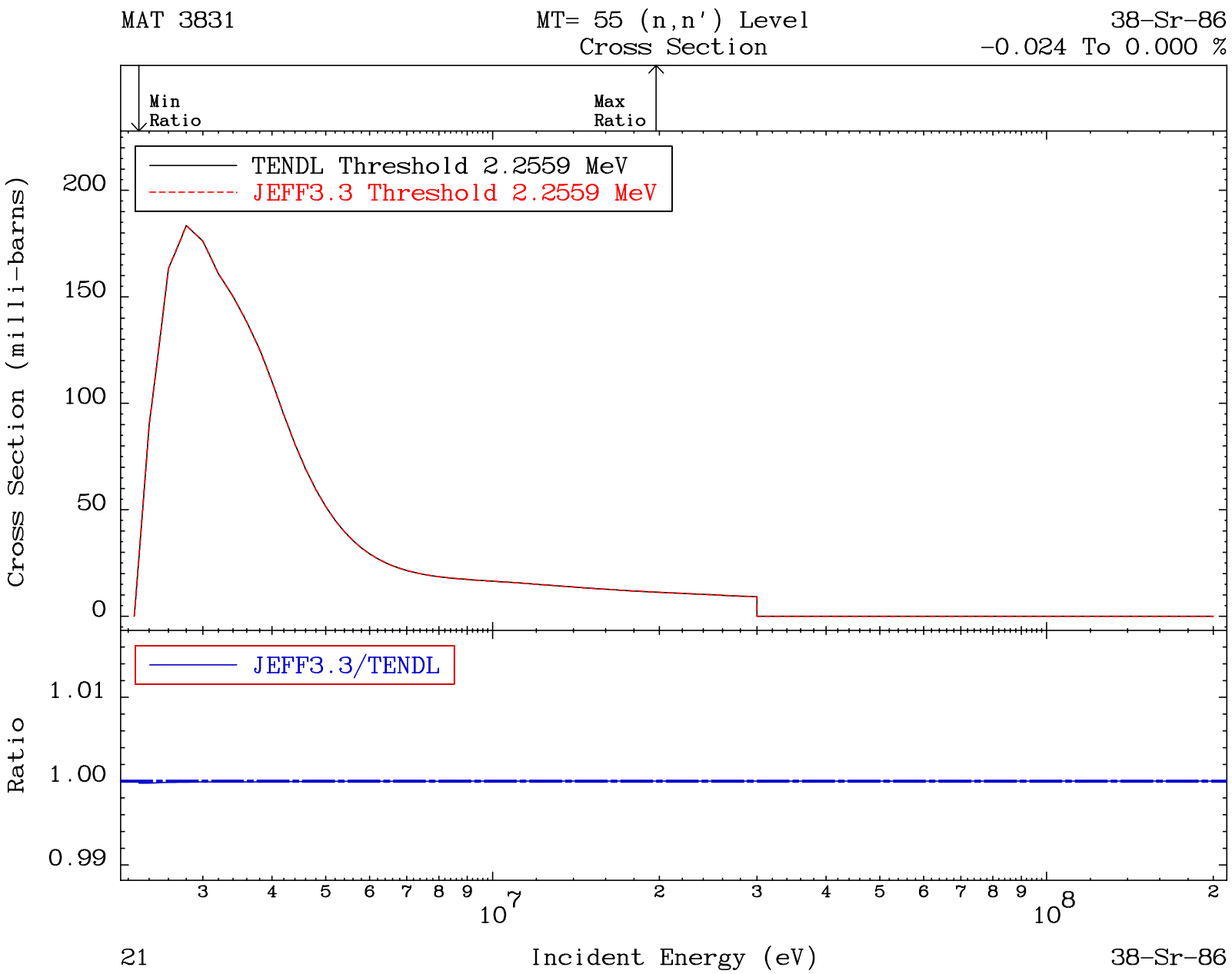

MAT 3831
(n,n') p α
Cross Section
38-Sr-86
-98.70 To 1216. %
Min Ratio
Max Ratio
TENDL Threshold 16.460 MeV
JEFF3.3 Threshold 16.452 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
38-Sr-86

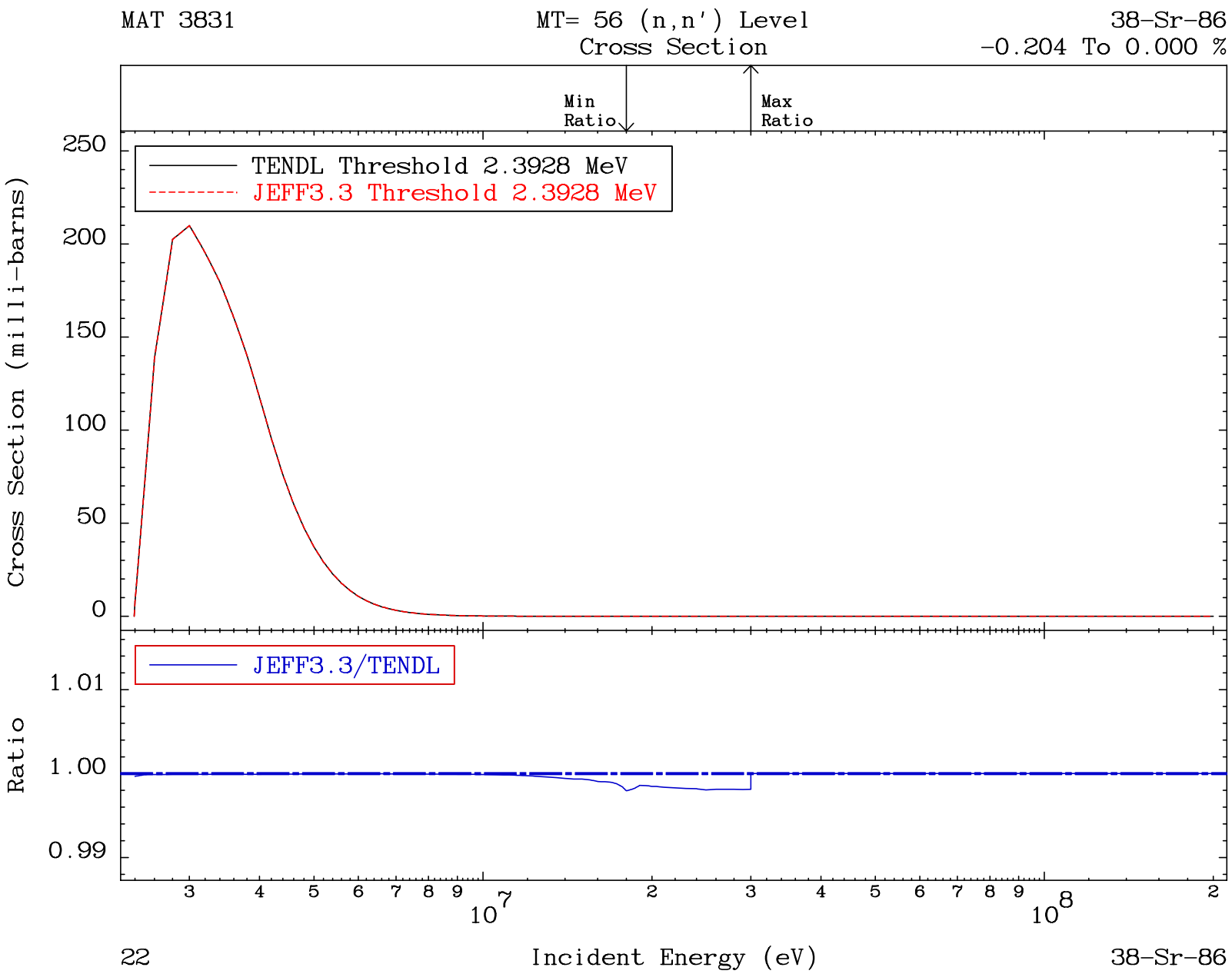

MAT 3831
MT= 51 (n,n') Level
Cross Section
38-Sr-86
-0.018 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0893 MeV
JEFF3.3 Threshold 1.0893 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
38-Sr-86

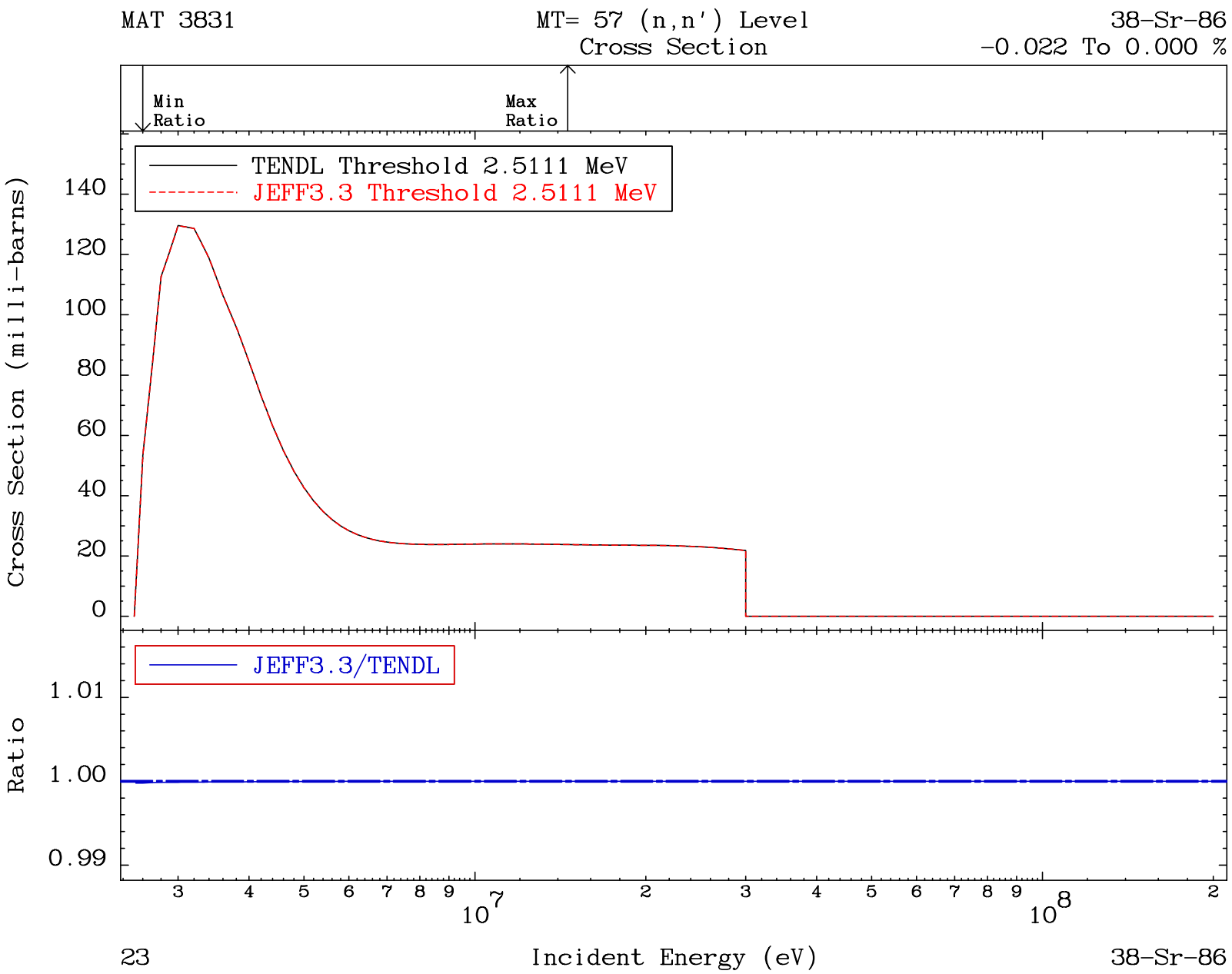

MAT 3831
MT= 52 (n,n') Level
Cross Section
38-Sr-86
-0.014 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.8759 MeV
JEFF3.3 Threshold 1.8759 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
38-Sr-86

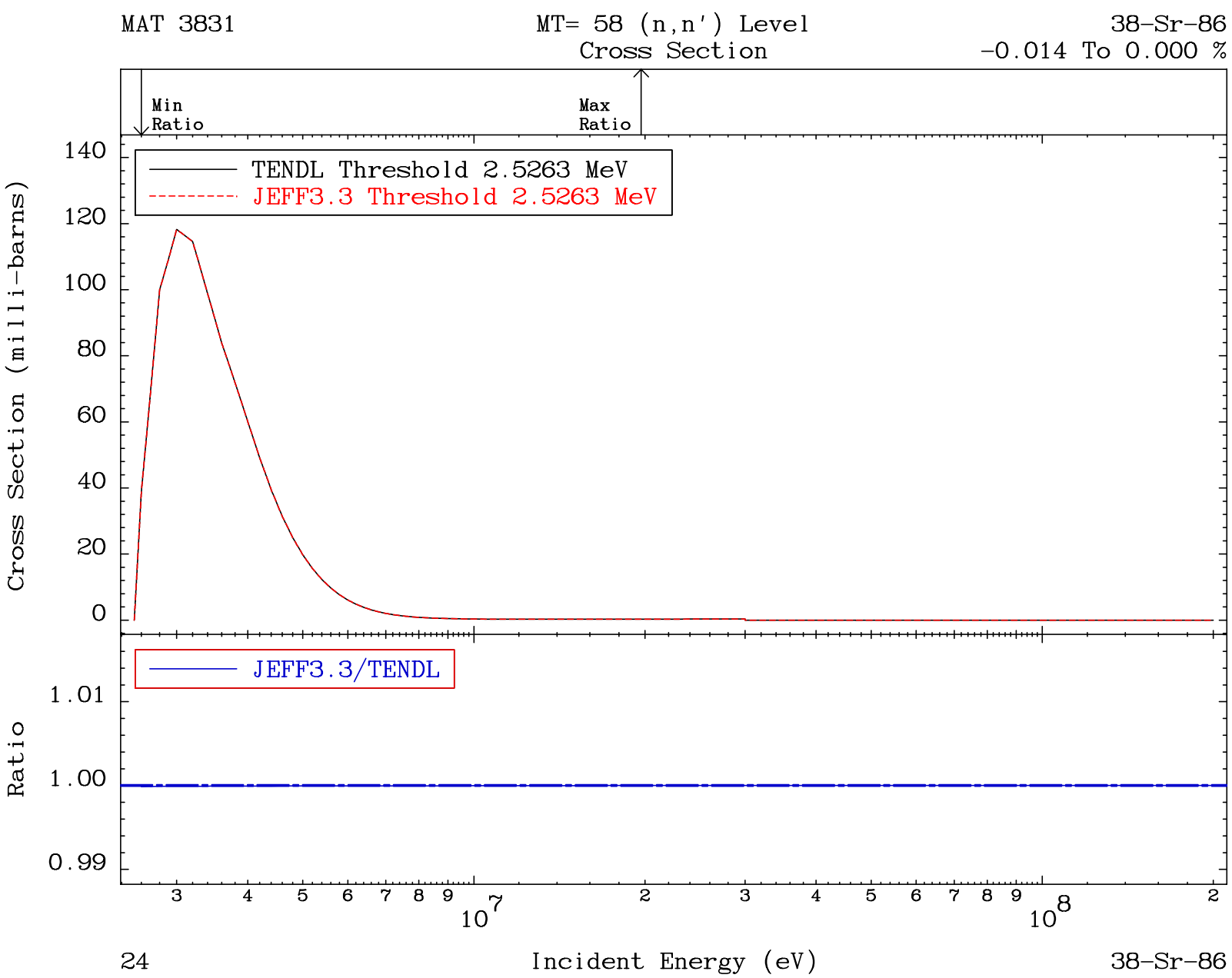

MAT 3831
MT= 53 (n,n') Level
Cross Section
38-Sr-86
-0.205 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.1307 MeV
JEFF3.3 Threshold 2.1307 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
38-Sr-86

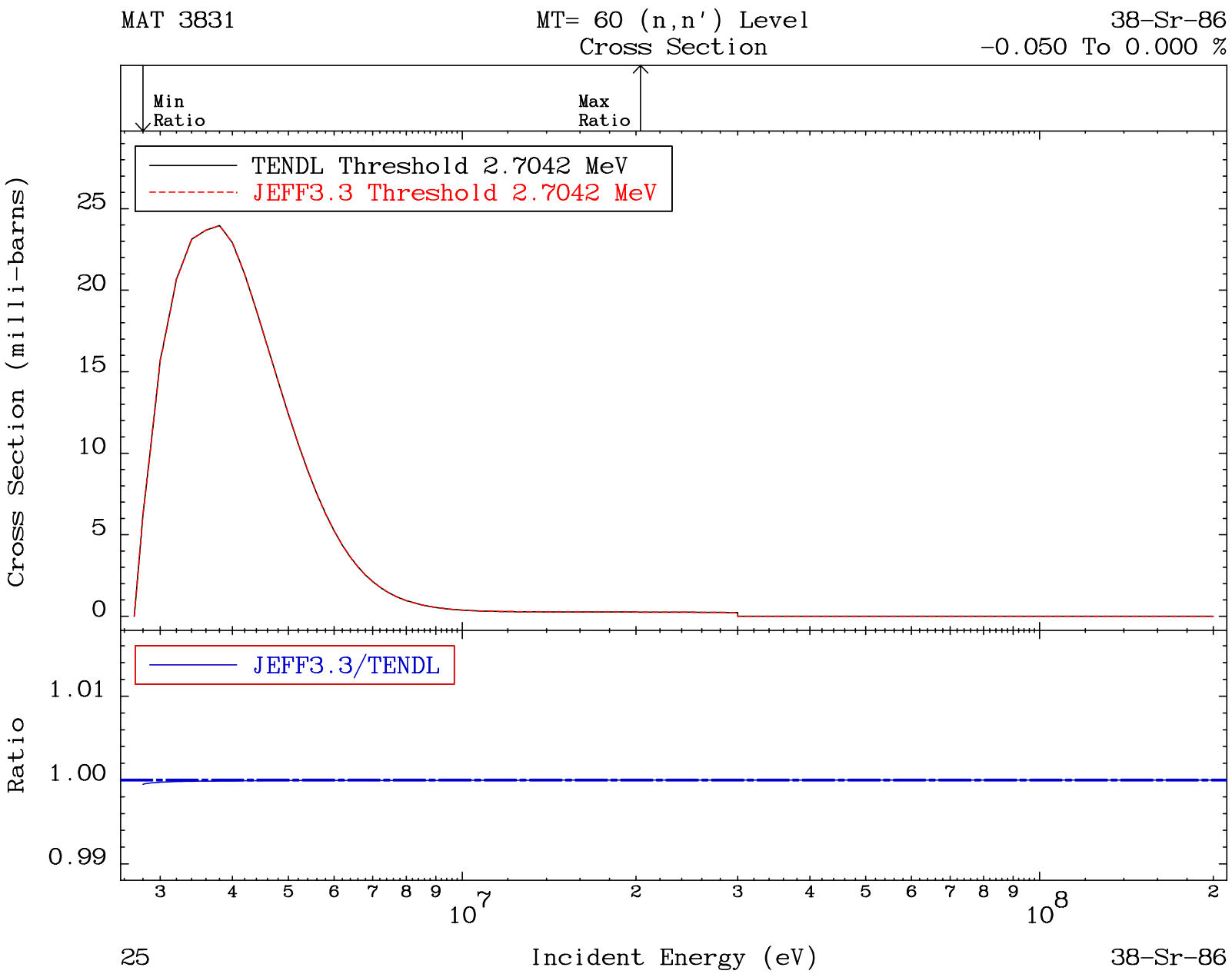

MAT 3831
MT= 54 (n,n') Level
Cross Section
38-Sr-86
-0.205 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2289 MeV
JEFF3.3 Threshold 2.2289 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
38-Sr-86

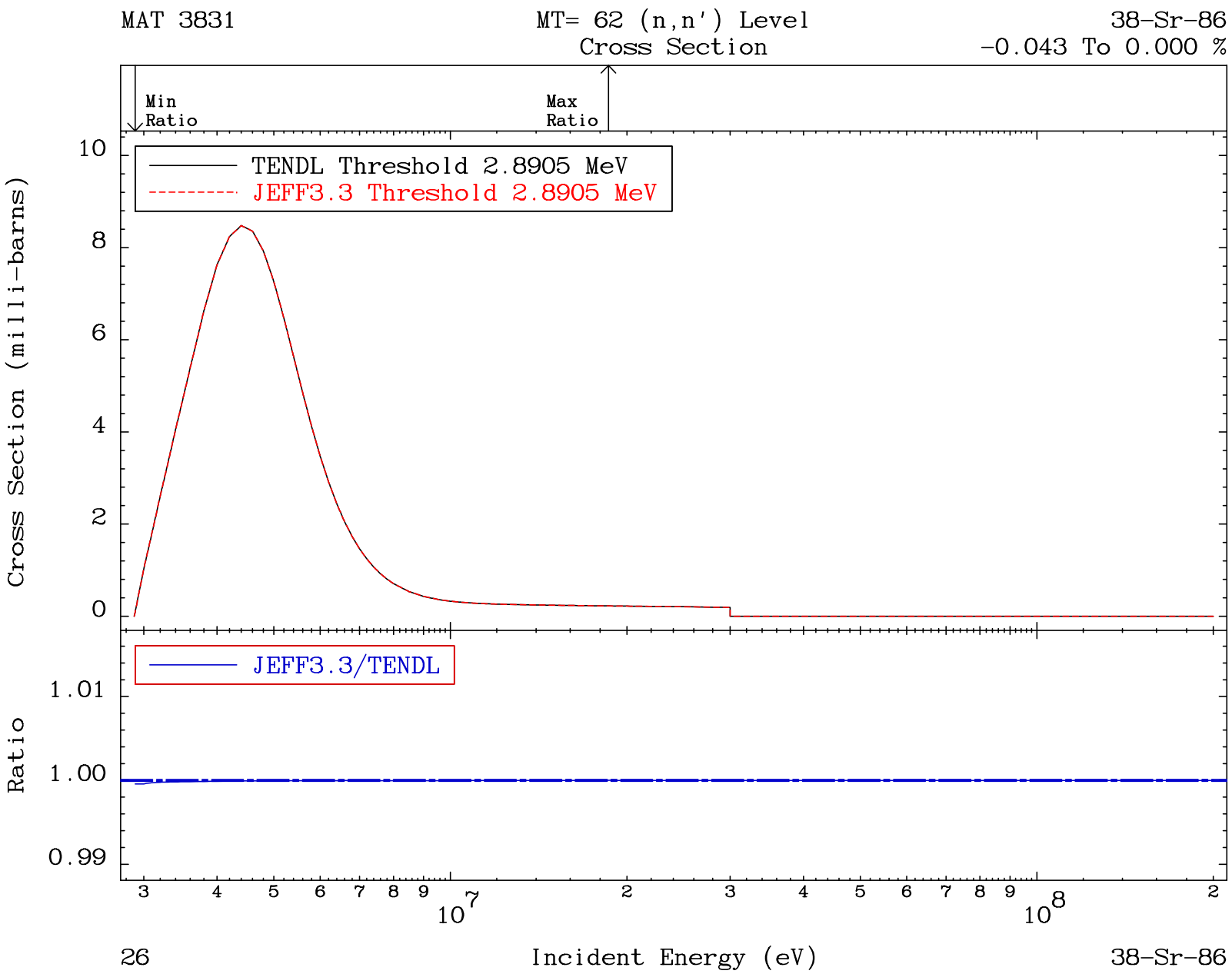

MAT 3831
MT= 55 (n,n') Level
Cross Section
38-Sr-86
-0.024 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2559 MeV
JEFF3.3 Threshold 2.2559 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
38-Sr-86

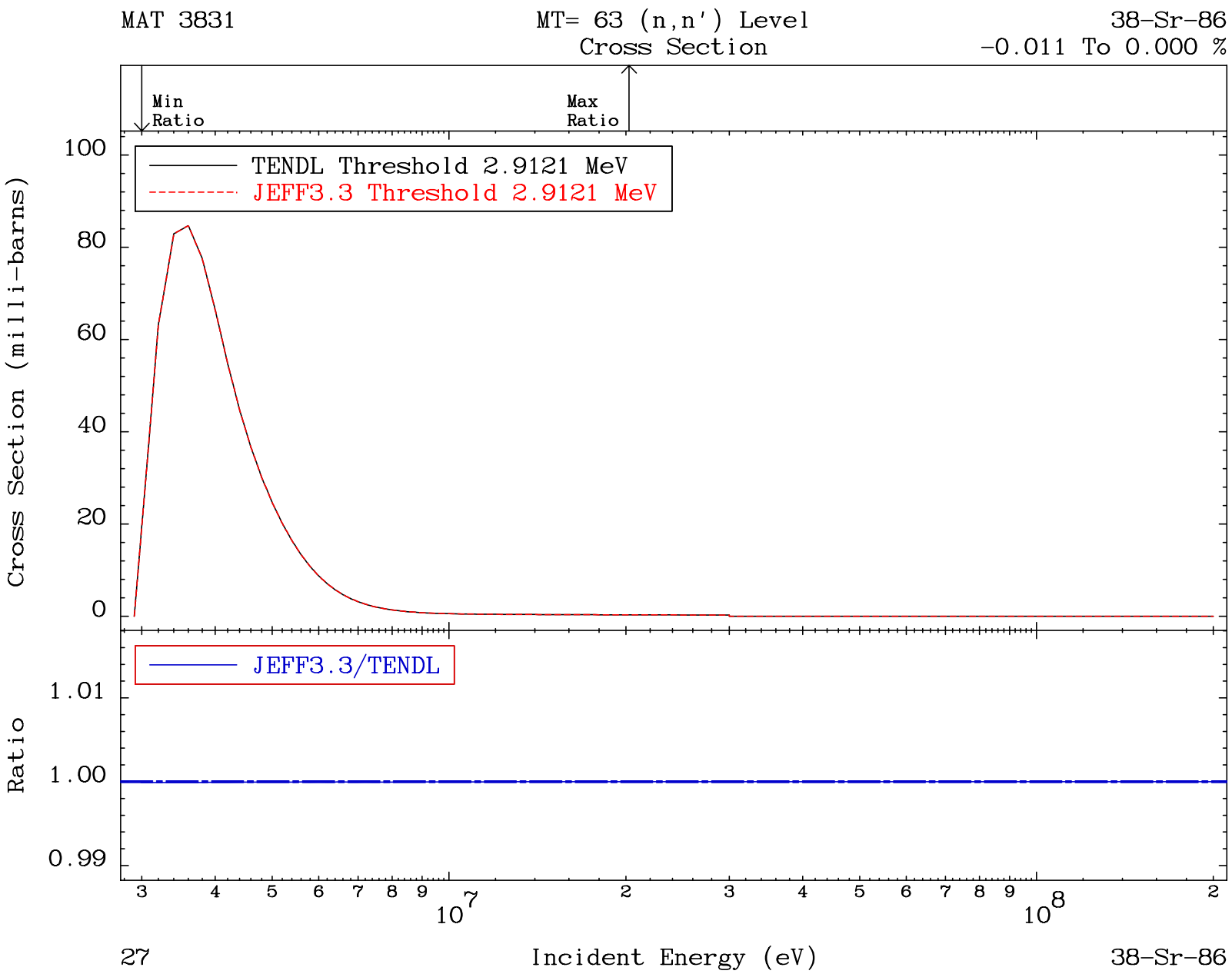

MAT 3831
MT= 56 (n,n') Level
Cross Section
38-Sr-86
-0.204 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.3928 MeV
JEFF3.3 Threshold 2.3928 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
38-Sr-86

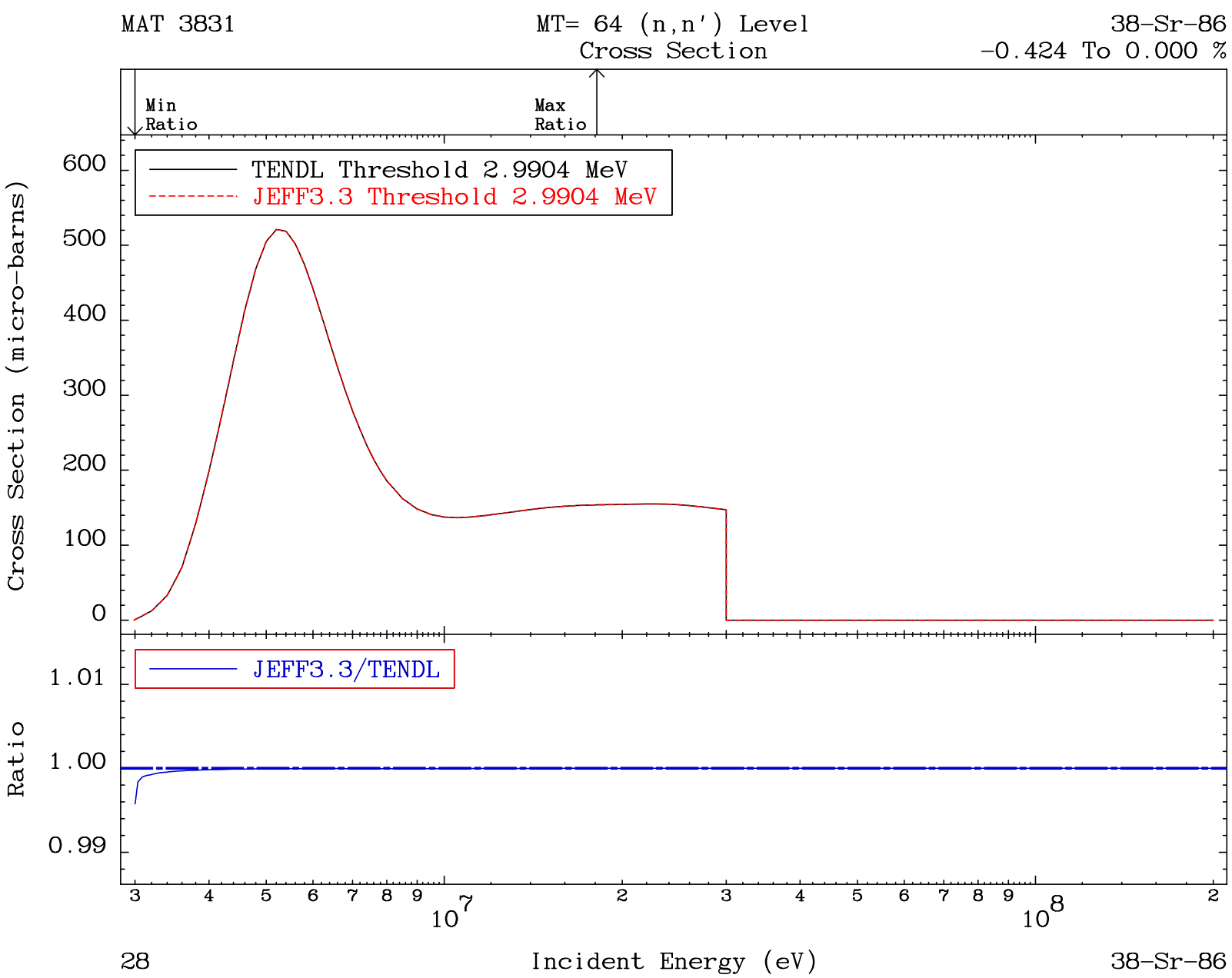

MAT 3831
MT= 57 (n,n') Level
Cross Section
38-Sr-86
-0.022 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5111 MeV
JEFF3.3 Threshold 2.5111 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
23
Incident Energy (eV)
38-Sr-86

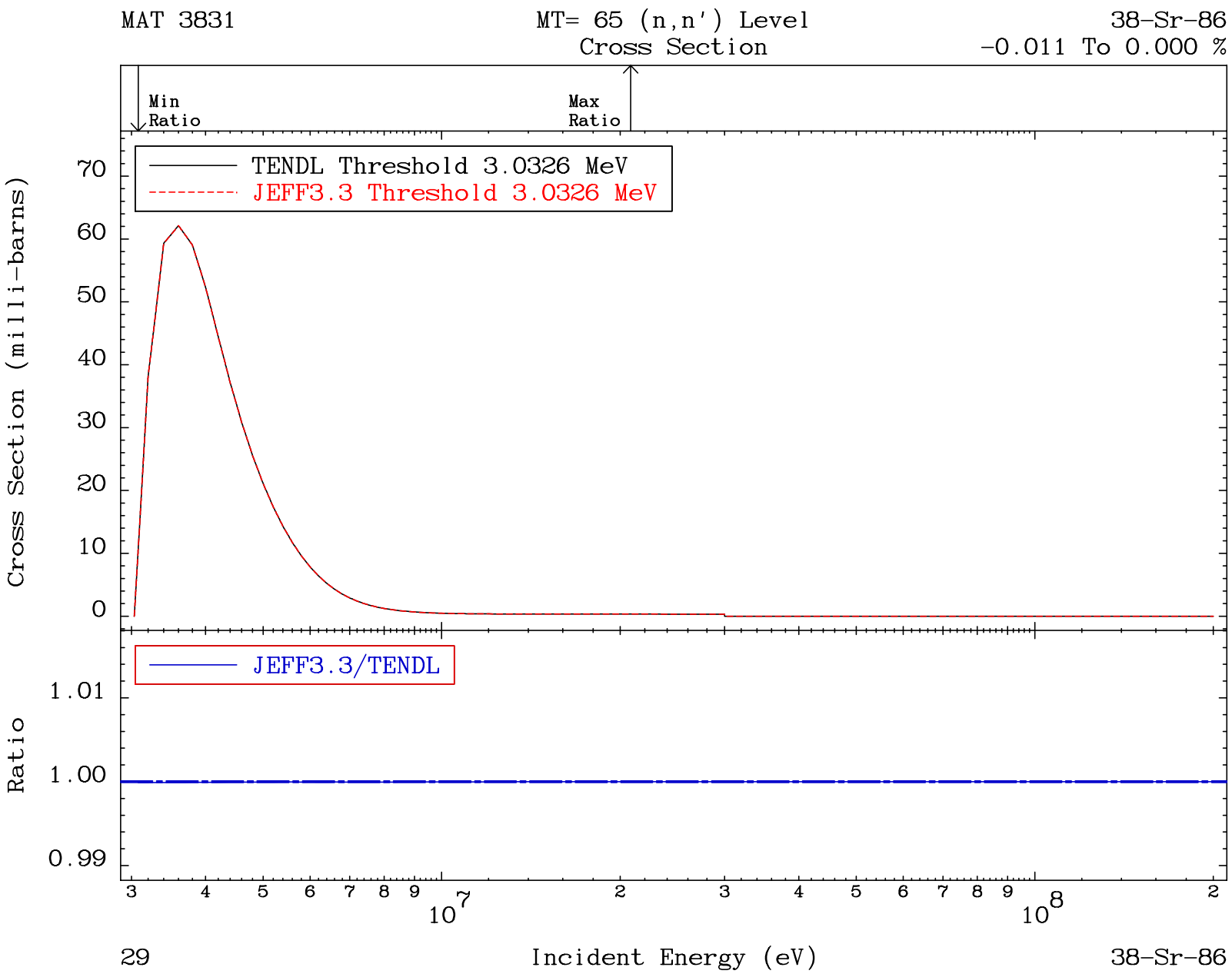

MAT 3831
MT= 58 (n,n') Level
Cross Section
38-Sr-86
-0.014 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5263 MeV
JEFF3.3 Threshold 2.5263 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
24
Incident Energy (eV)
38-Sr-86

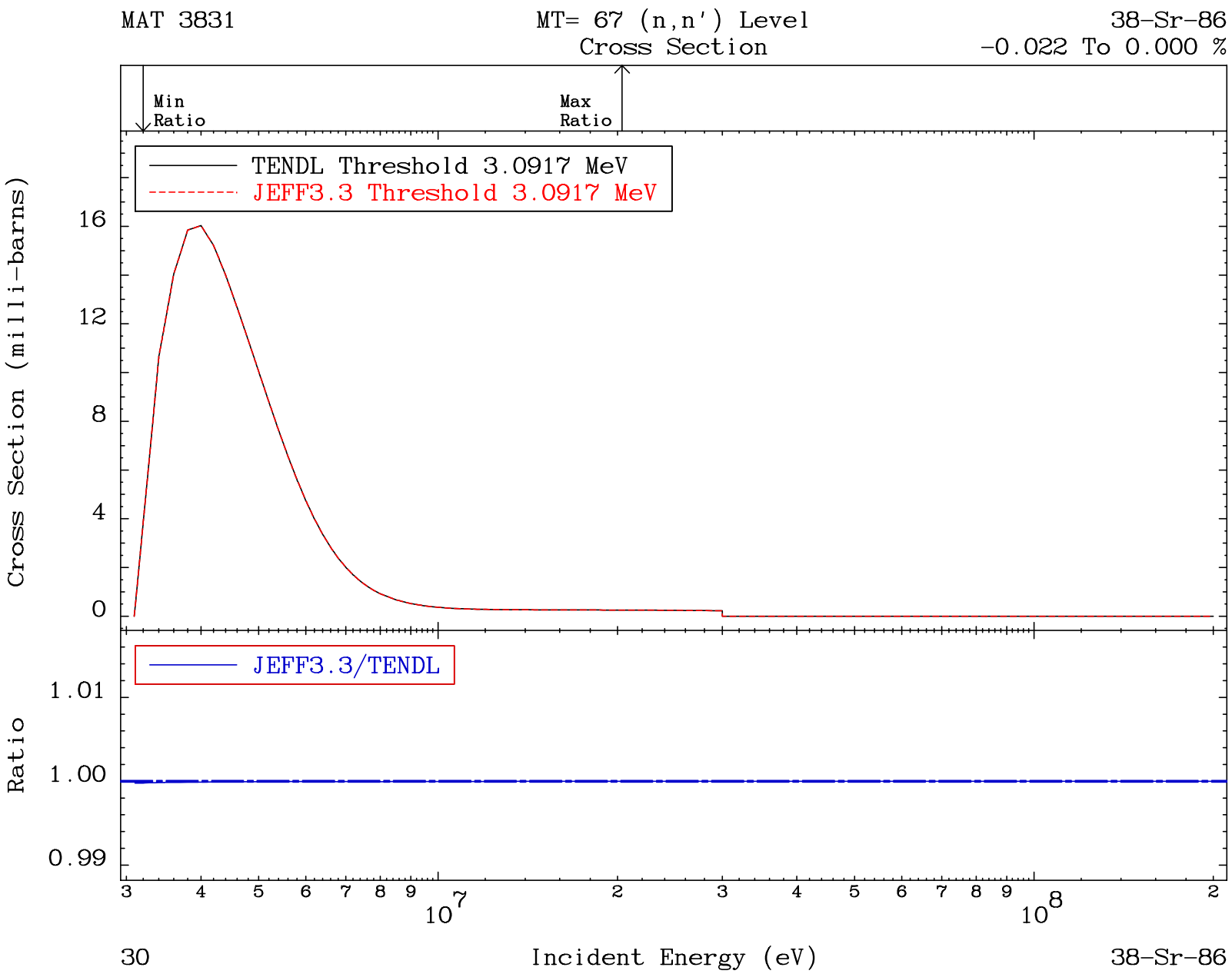

MAT 3831
MT= 60 (n,n') Level
Cross Section
38-Sr-86
-0.050 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7042 MeV
JEFF3.3 Threshold 2.7042 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
25
Incident Energy (eV)
38-Sr-86

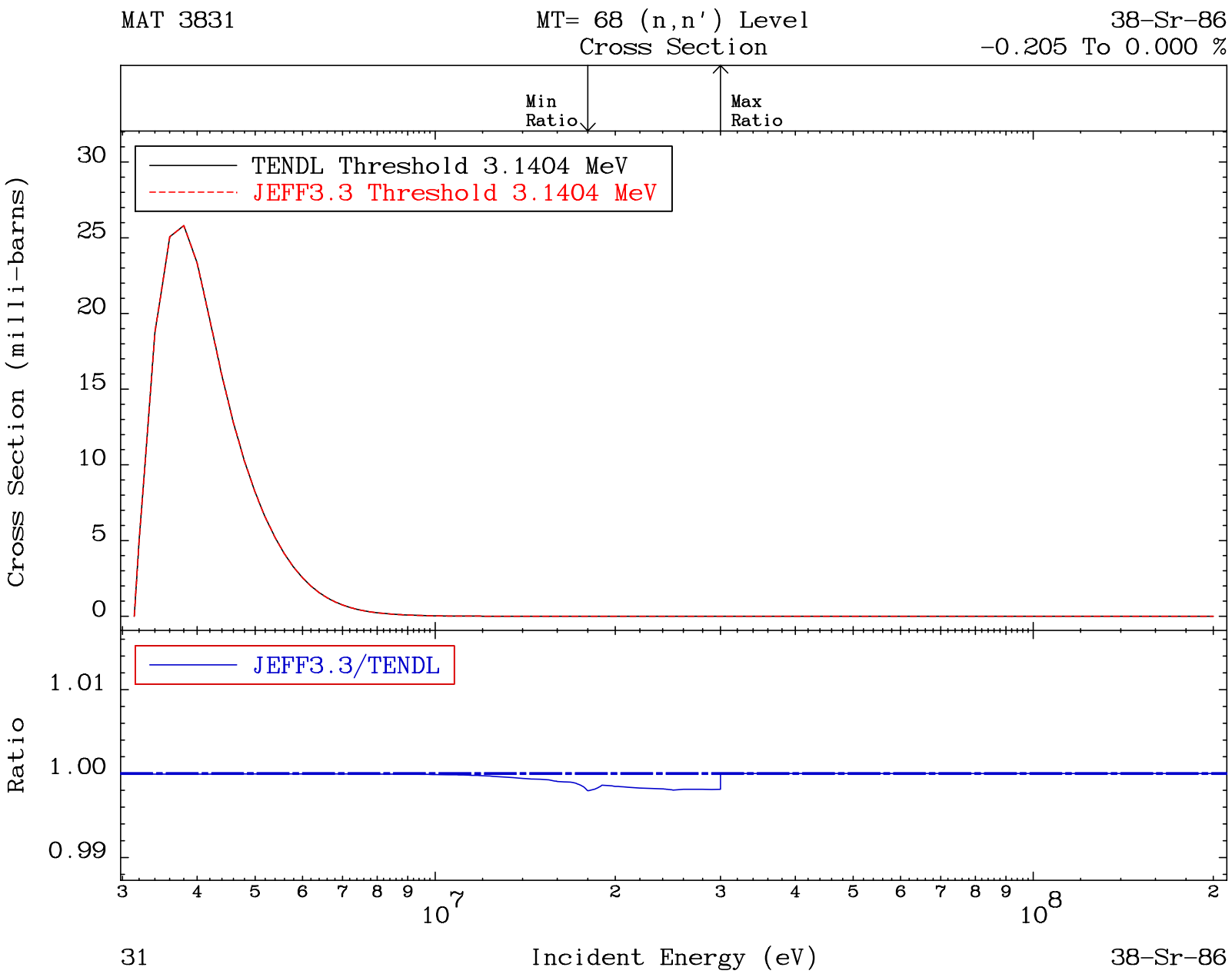

MAT 3831
MT= 62 (n,n') Level
Cross Section
38-Sr-86
-0.043 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8905 MeV
JEFF3.3 Threshold 2.8905 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
38-Sr-86

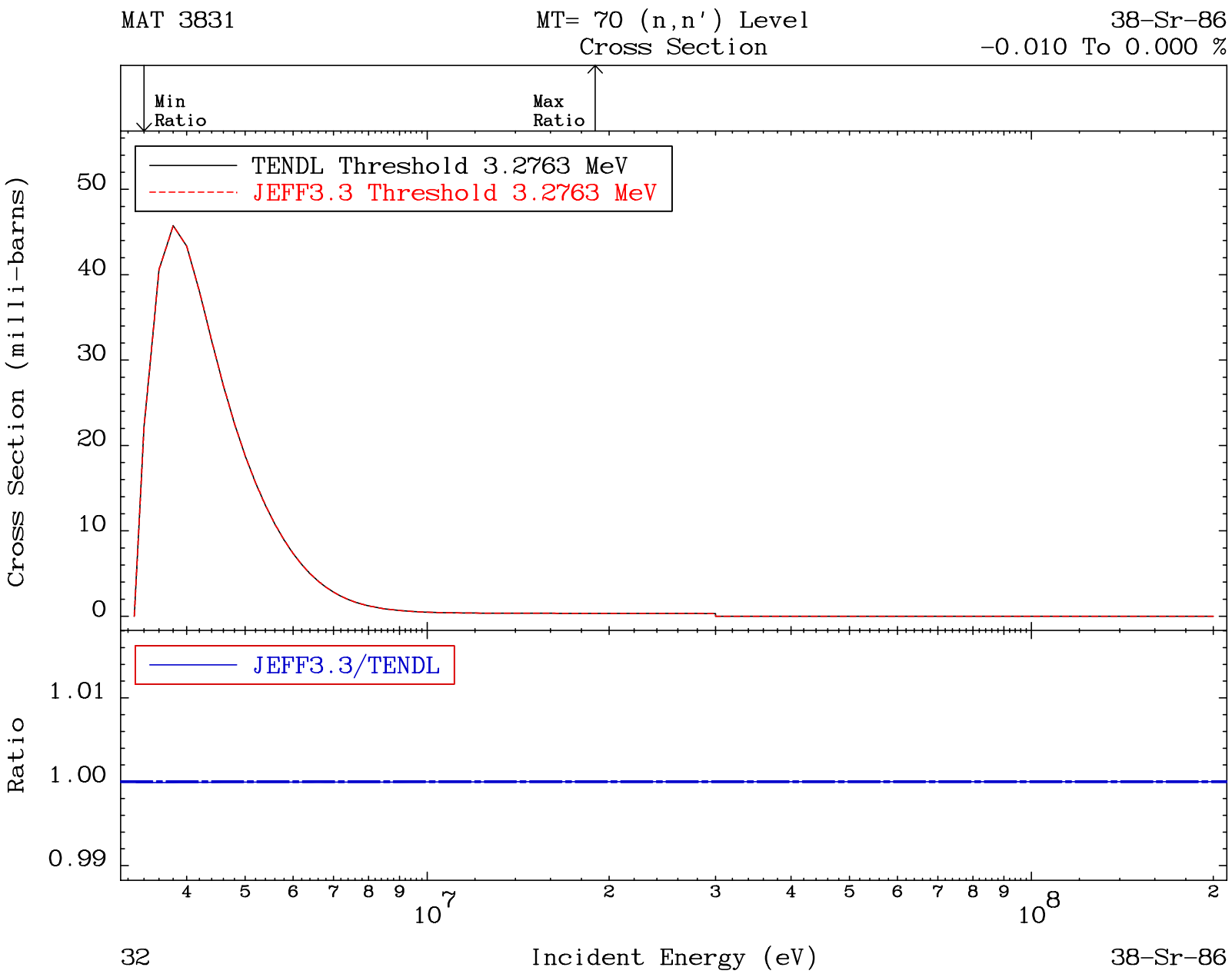

MAT 3831
MT= 63 (n,n') Level
Cross Section
38-Sr-86
-0.011 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9121 MeV
JEFF3.3 Threshold 2.9121 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
27
Incident Energy (eV)
38-Sr-86

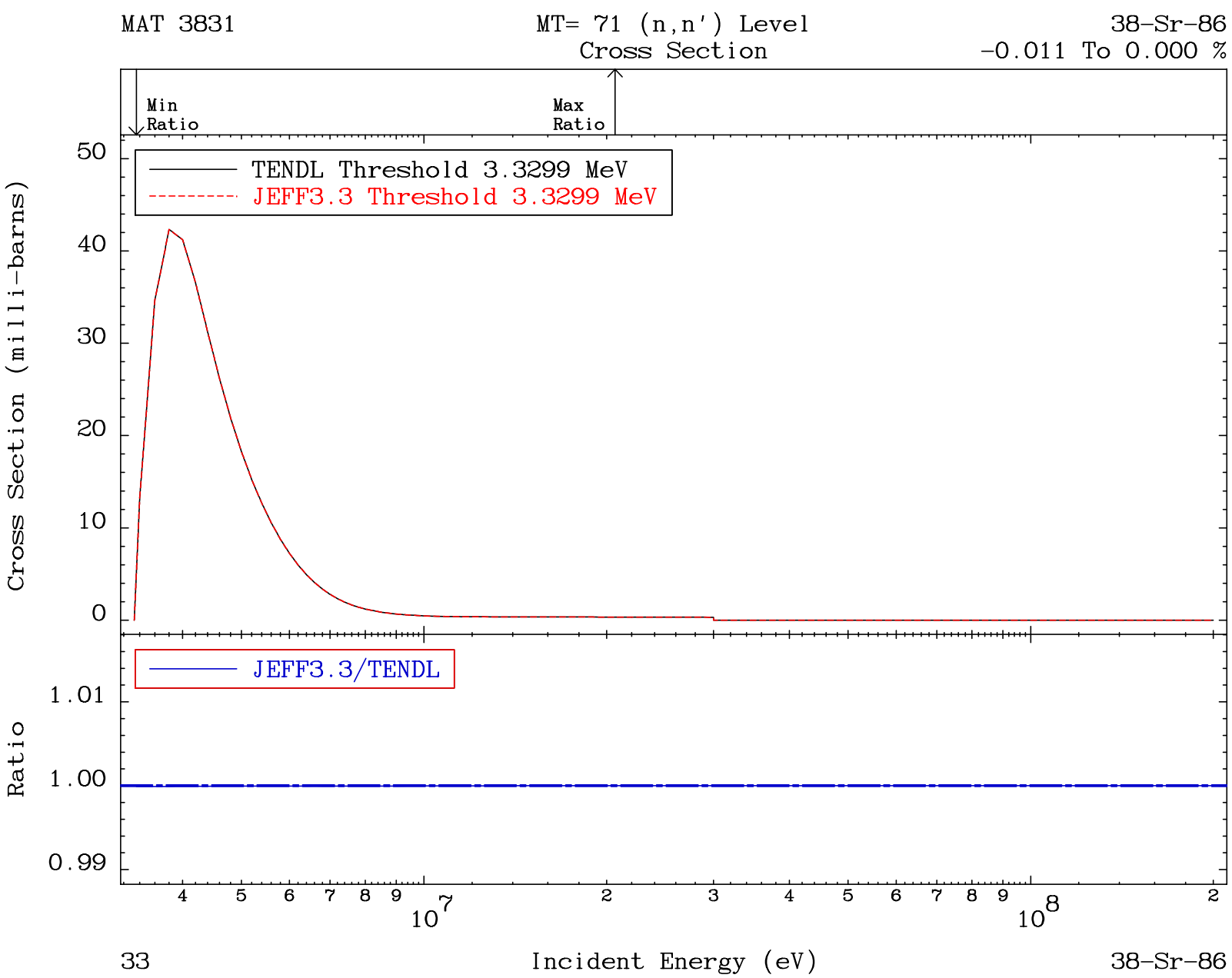

MAT 3831
MT= 64 (n,n') Level
Cross Section
38-Sr-86
-0.424 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9904 MeV
JEFF3.3 Threshold 2.9904 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
28
Incident Energy (eV)
38-Sr-86

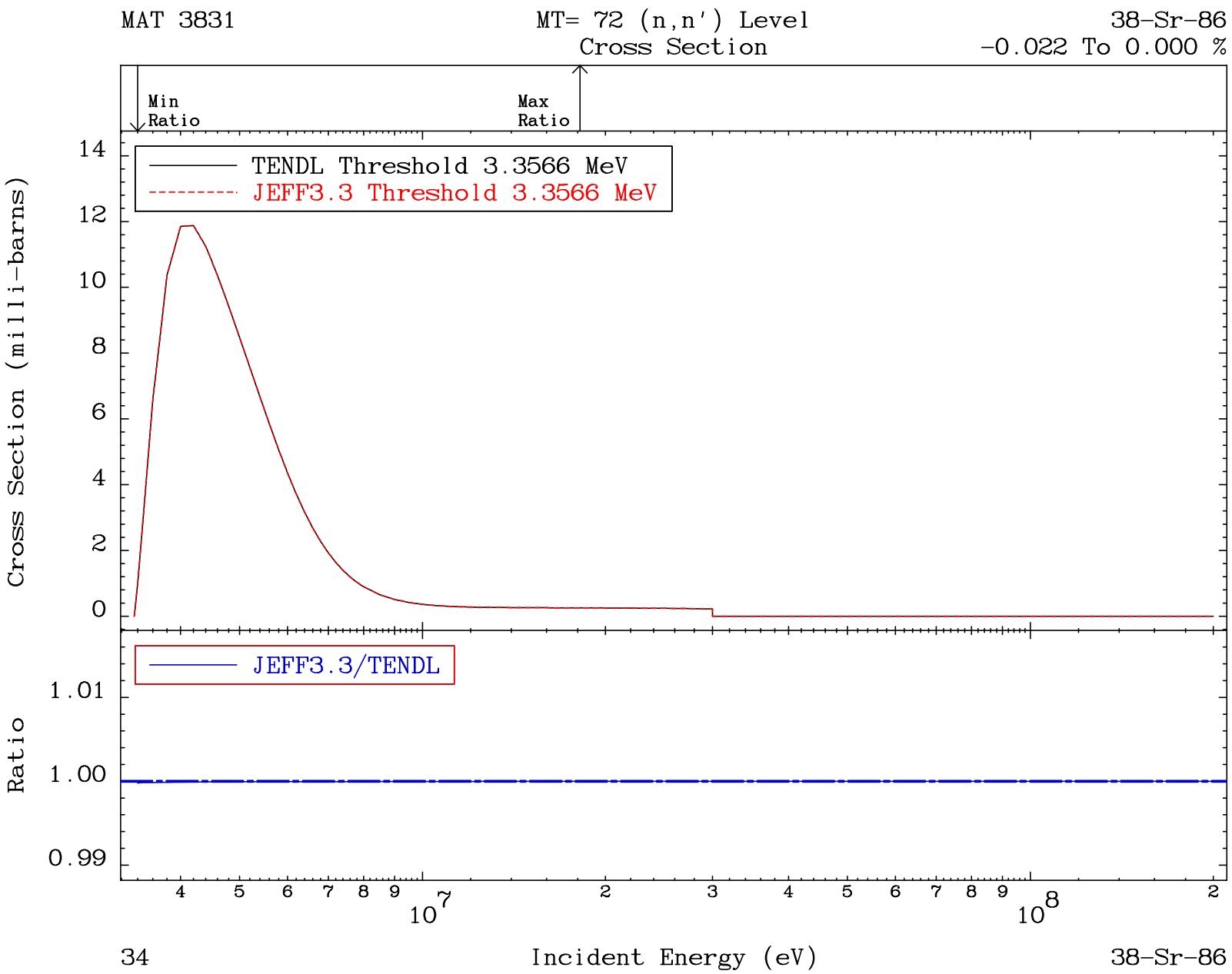

MAT 3831
MT= 65 (n,n') Level
Cross Section
38-Sr-86
-0.011 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.0326 MeV
JEFF3.3 Threshold 3.0326 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
38-Sr-86

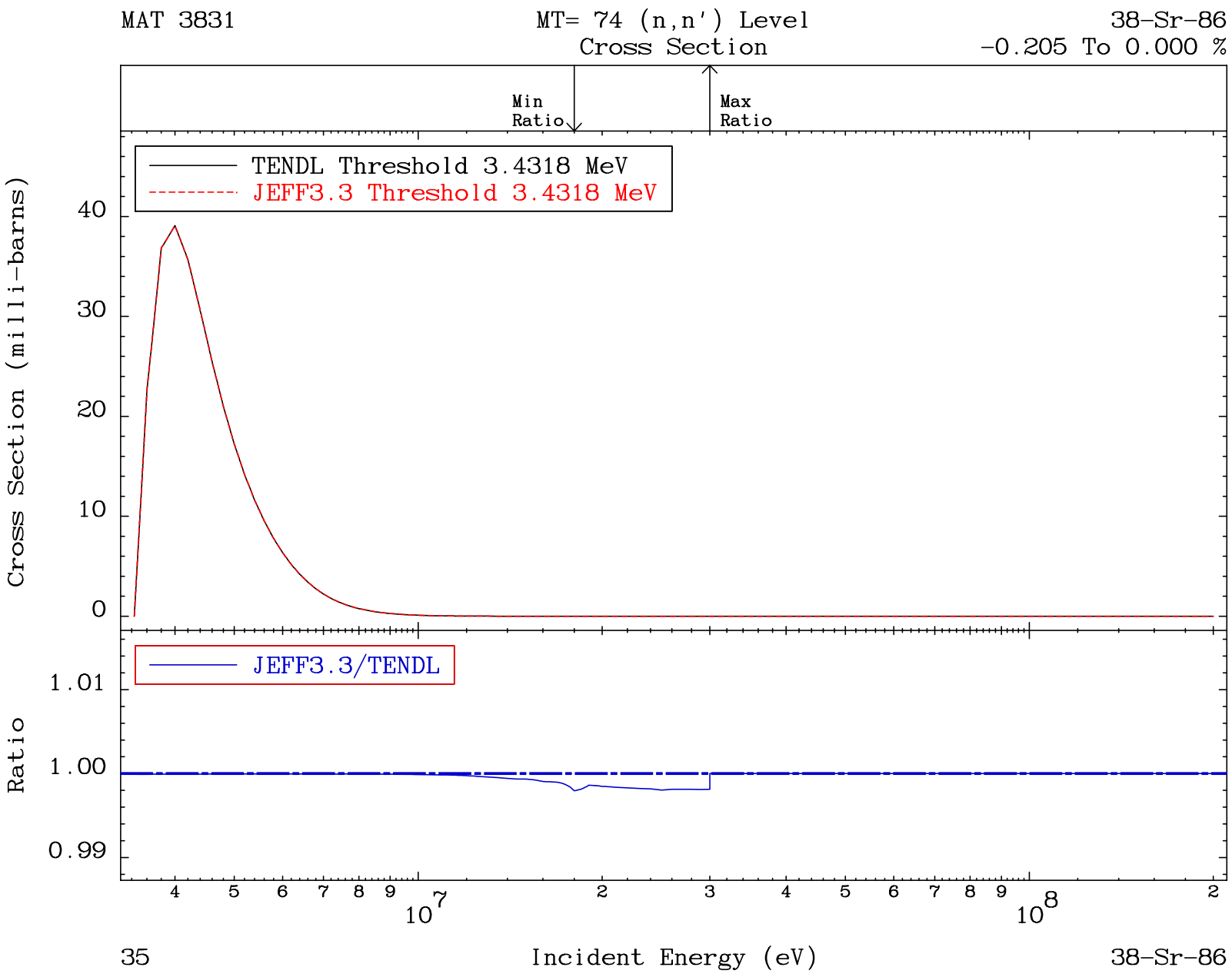

MAT 3831
MT= 67 (n,n') Level
Cross Section
38-Sr-86
-0.022 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.0917 MeV
JEFF3.3 Threshold 3.0917 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
38-Sr-86

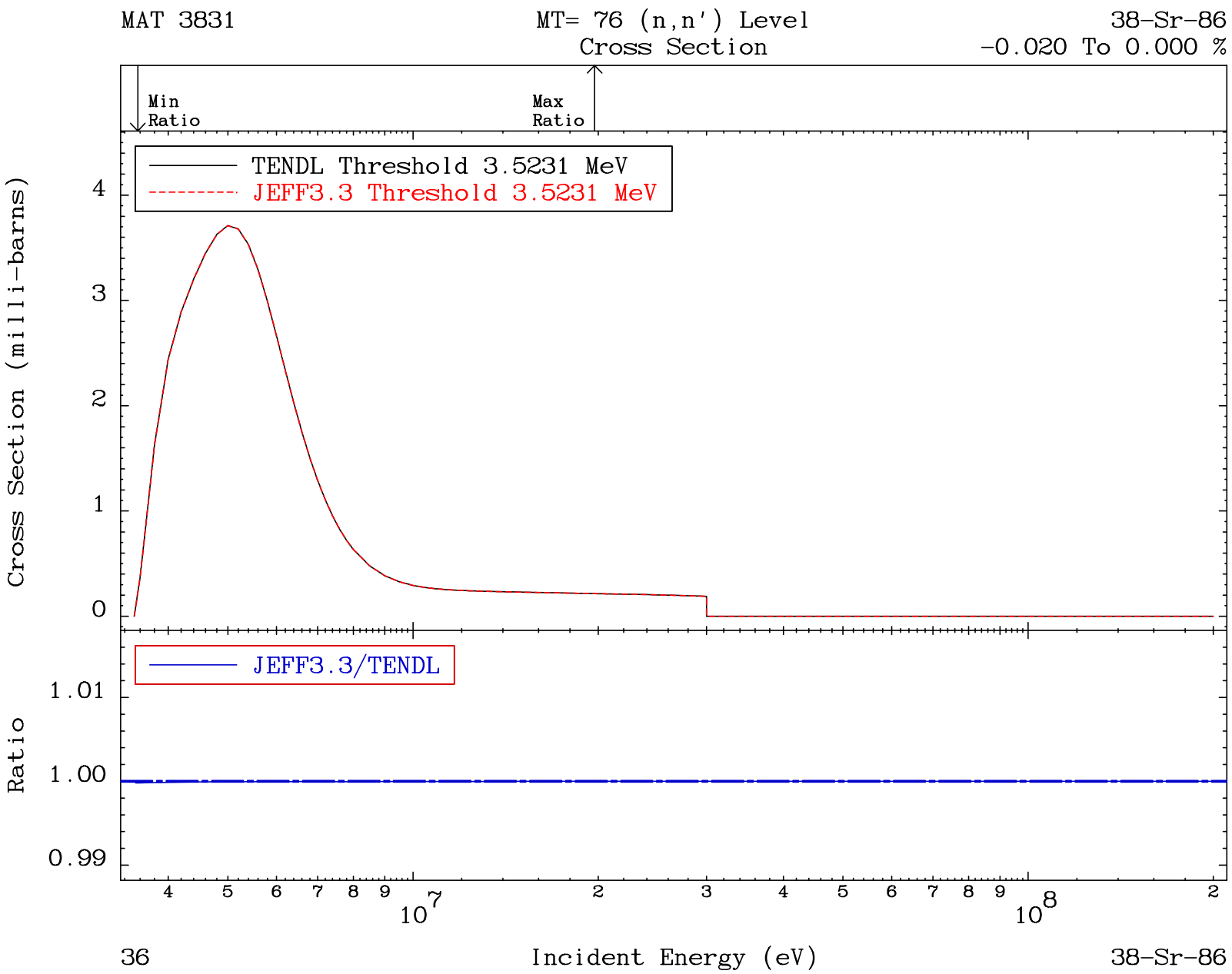

MAT 3831
MT= 68 (n,n') Level
Cross Section
38-Sr-86
-0.205 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.1404 MeV
JEFF3.3 Threshold 3.1404 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
38-Sr-86

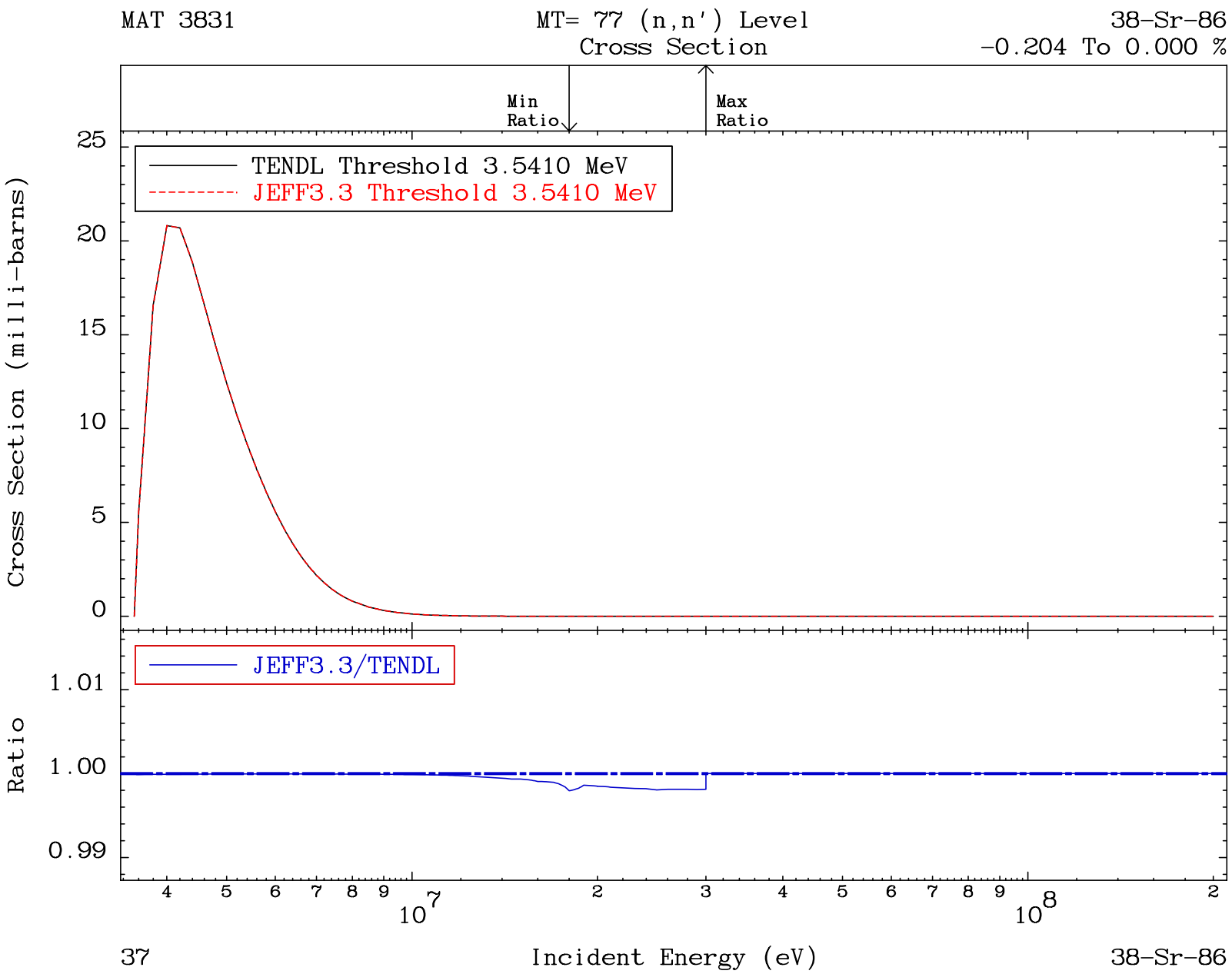

MAT 3831
MT= 70 (n,n') Level
Cross Section
38-Sr-86
-0.010 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2763 MeV
JEFF3.3 Threshold 3.2763 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
32
Incident Energy (eV)
38-Sr-86

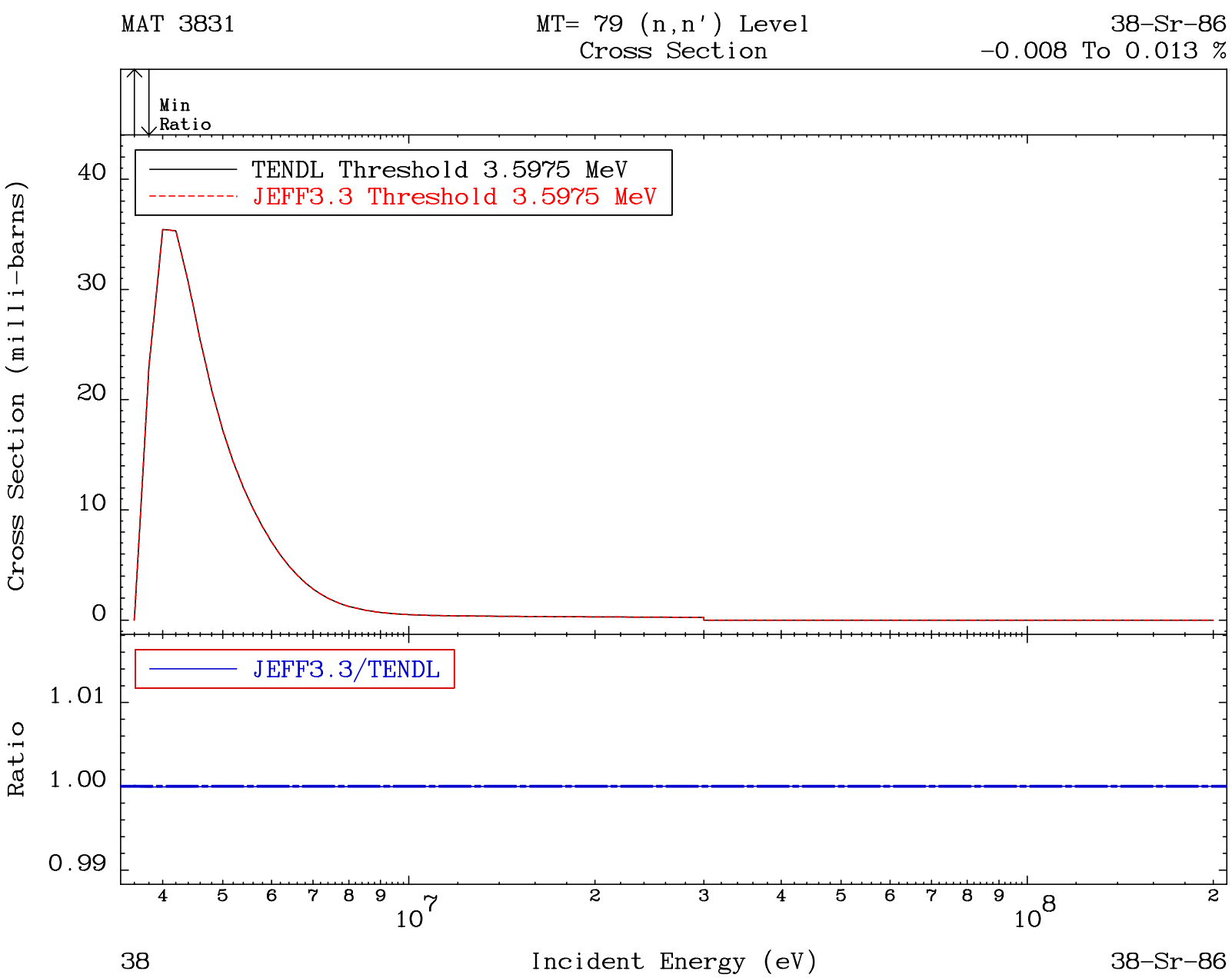

MAT 3831
MT= 71 (n,n') Level
Cross Section
38-Sr-86
-0.011 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.3299 MeV
JEFF3.3 Threshold 3.3299 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
33
Incident Energy (eV)
38-Sr-86

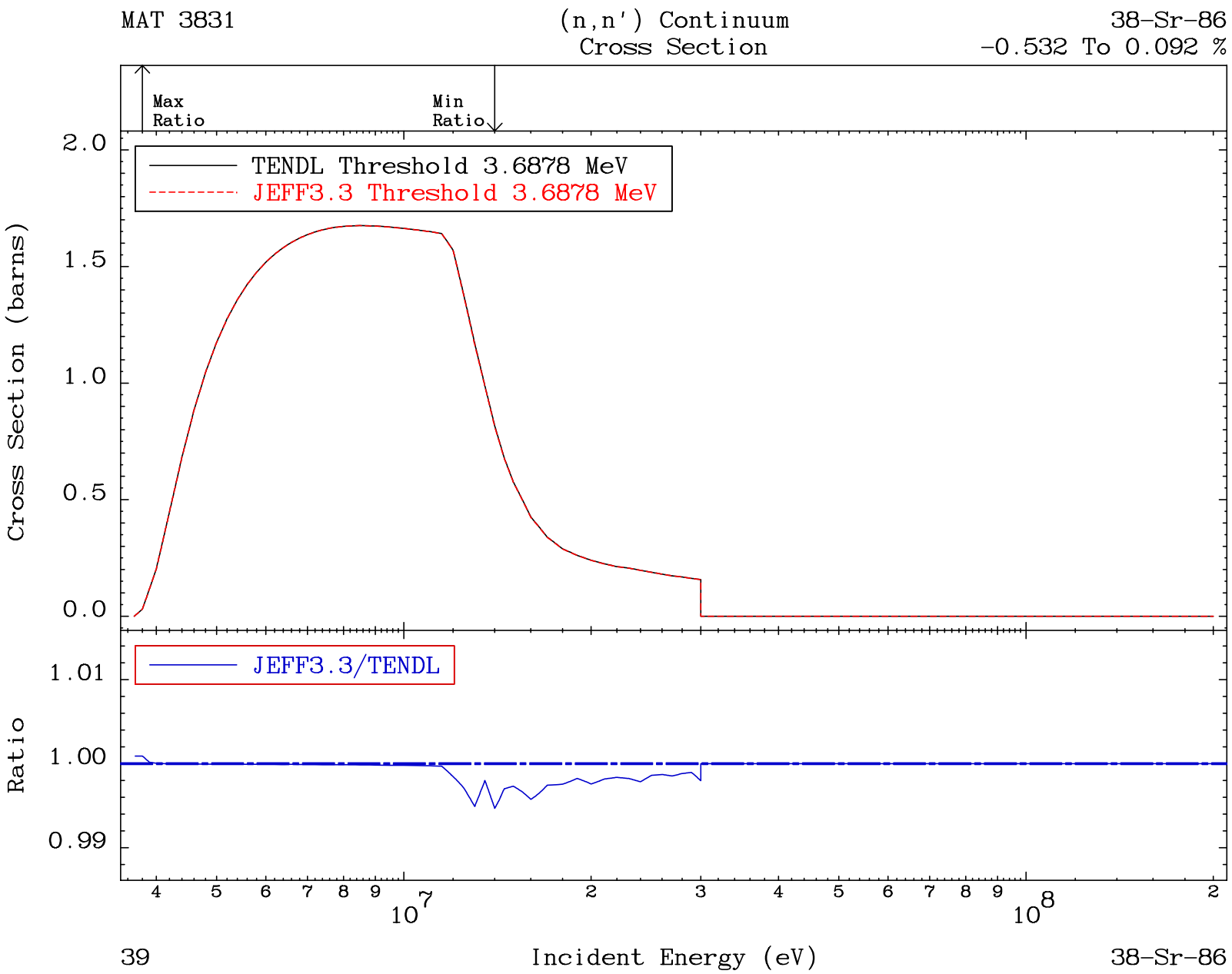

MAT 3831
MT= 72 (n,n') Level
Cross Section
38-Sr-86
-0.022 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.3566 MeV
JEFF3.3 Threshold 3.3566 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
38-Sr-86

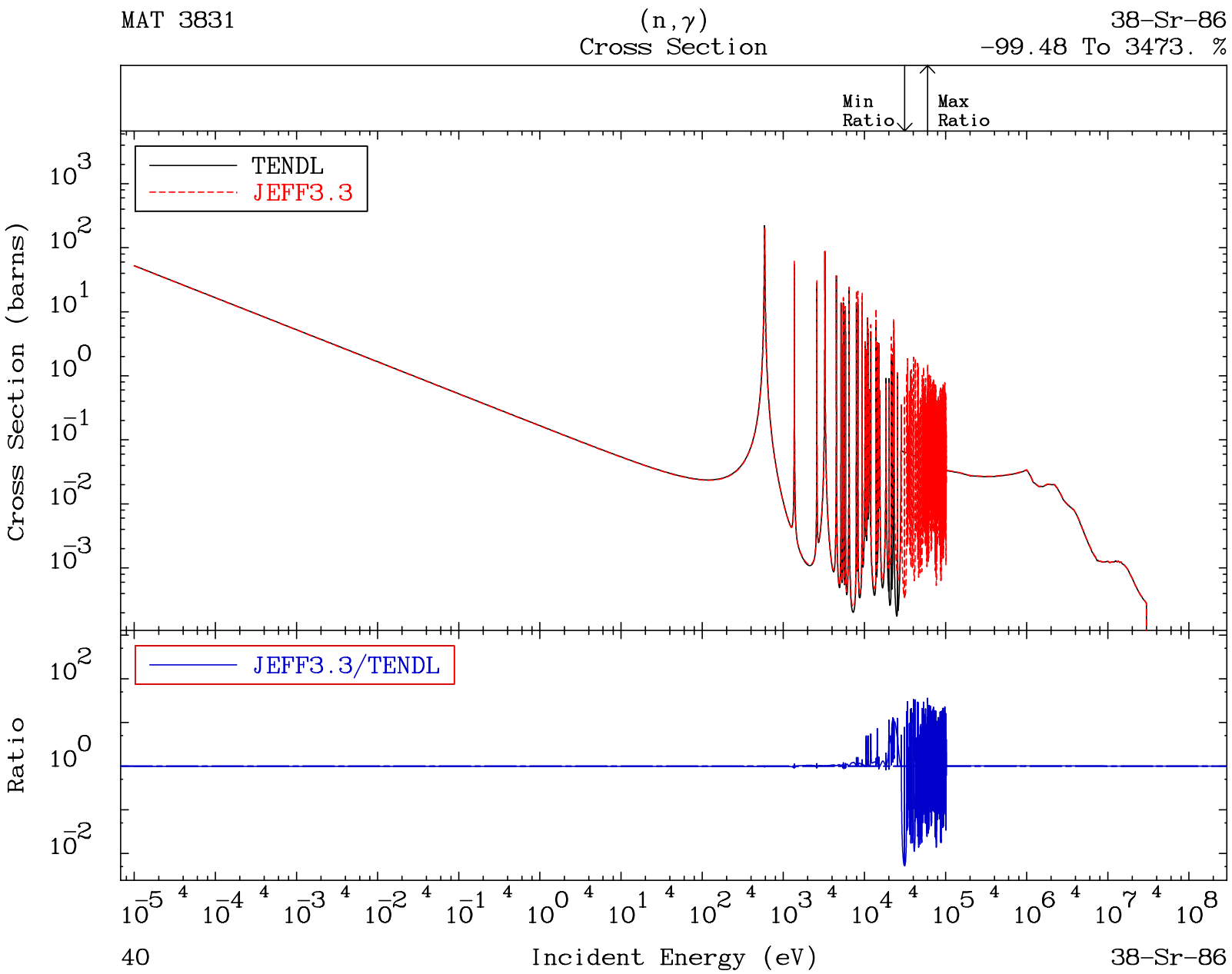

MAT 3831
MT= 74 (n,n') Level
Cross Section
38-Sr-86
-0.205 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.4318 MeV
JEFF3.3 Threshold 3.4318 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
38-Sr-86

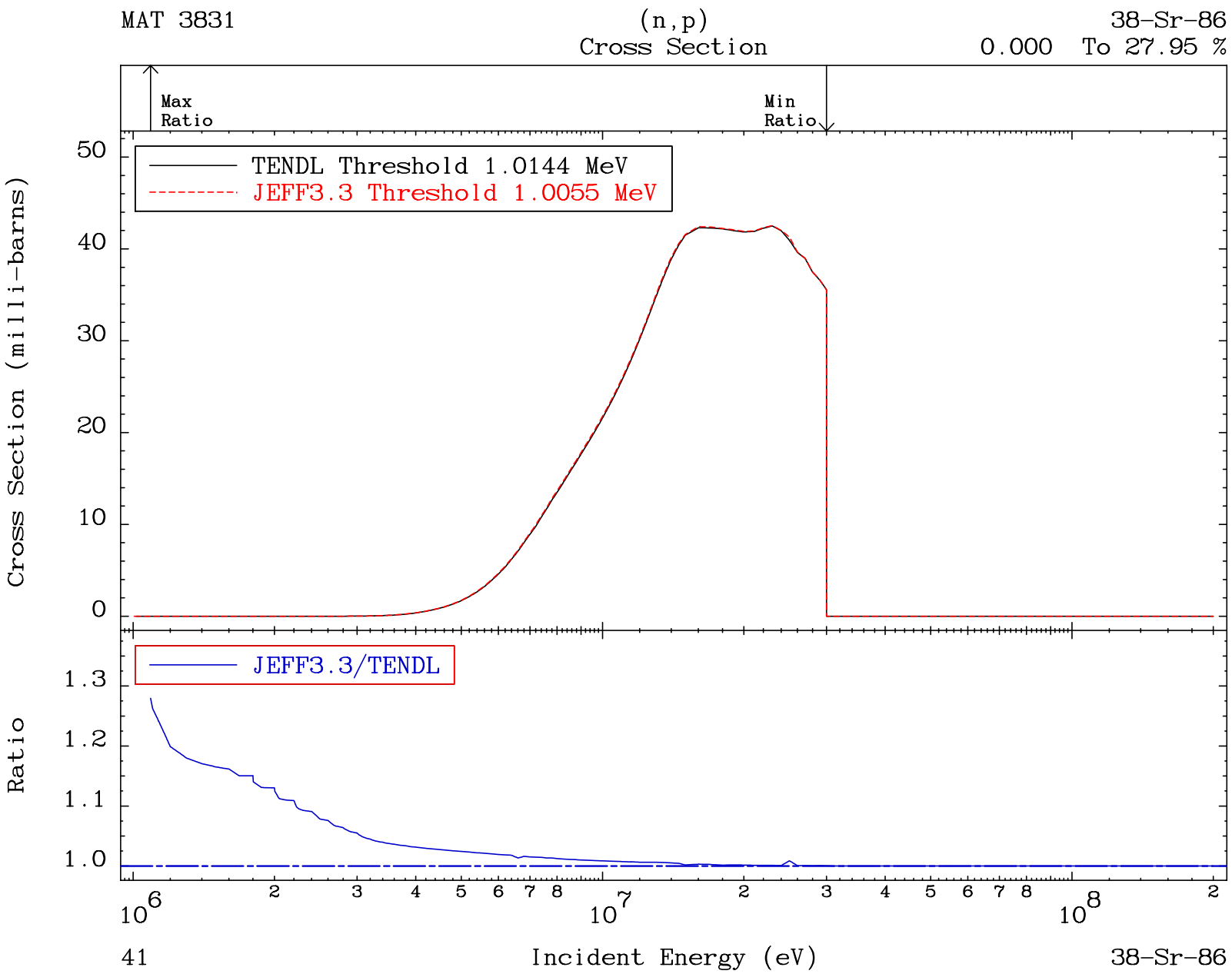

MAT 3831
MT= 76 (n,n') Level
Cross Section
38-Sr-86
-0.020 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.5231 MeV
JEFF3.3 Threshold 3.5231 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
38-Sr-86

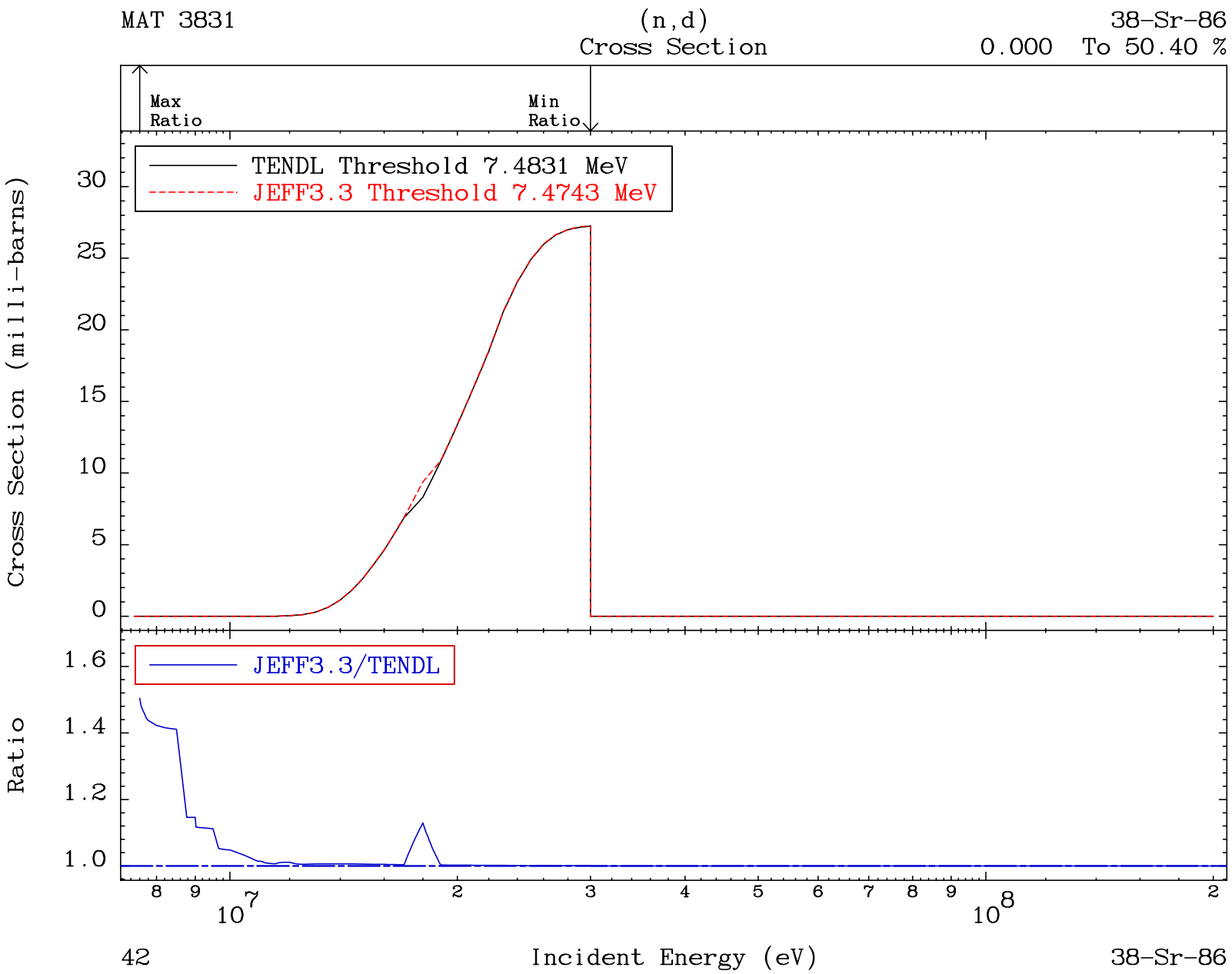

MAT 3831
MT= 77 (n,n') Level
Cross Section
38-Sr-86
-0.204 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.5410 MeV
JEFF3.3 Threshold 3.5410 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
38-Sr-86

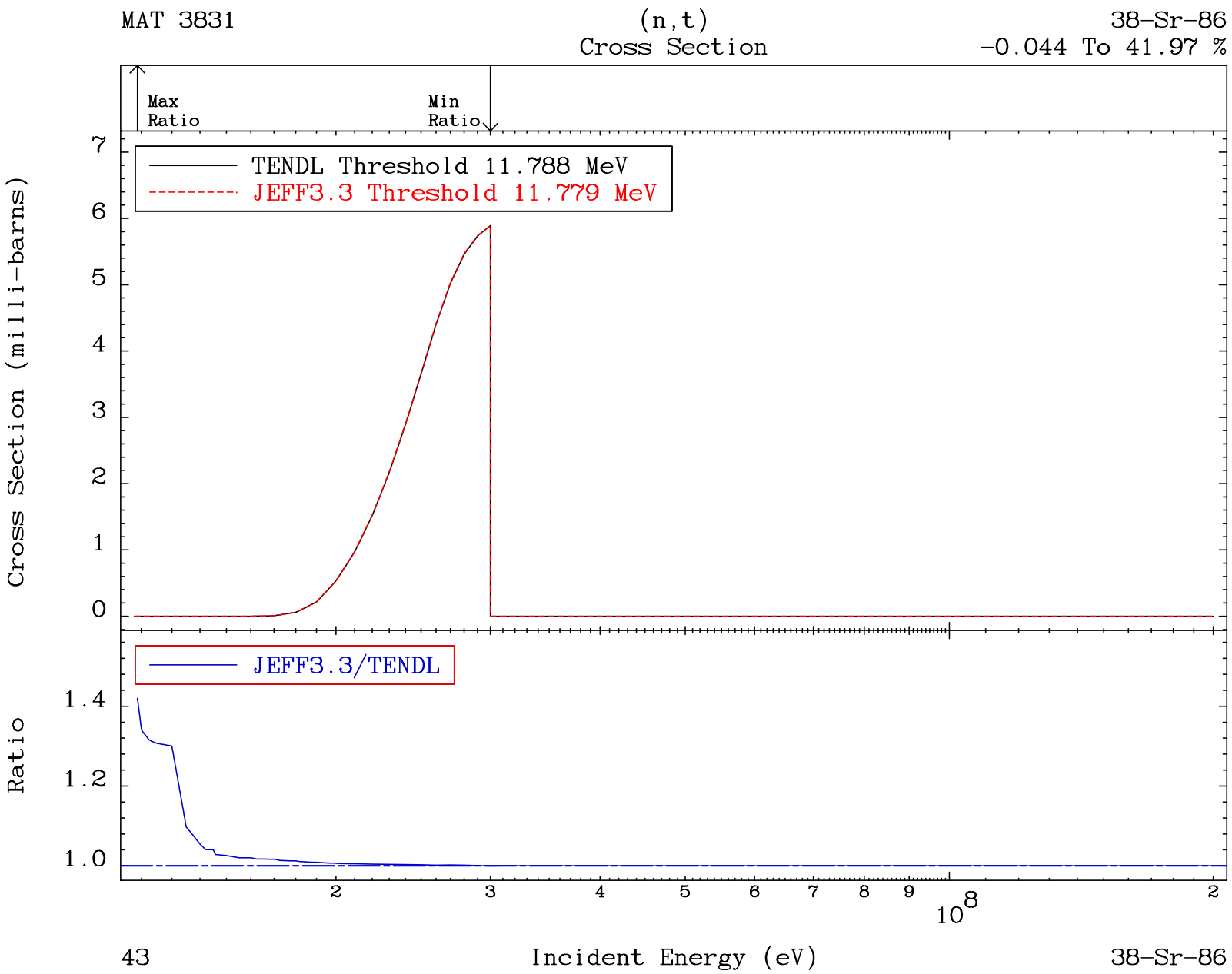

MAT 3831
MT= 79 (n,n') Level
Cross Section
38-Sr-86
-0.008 To 0.013 %
Min
Ratio
TENDL Threshold 3.5975 MeV
JEFF3.3 Threshold 3.5975 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
38-Sr-86

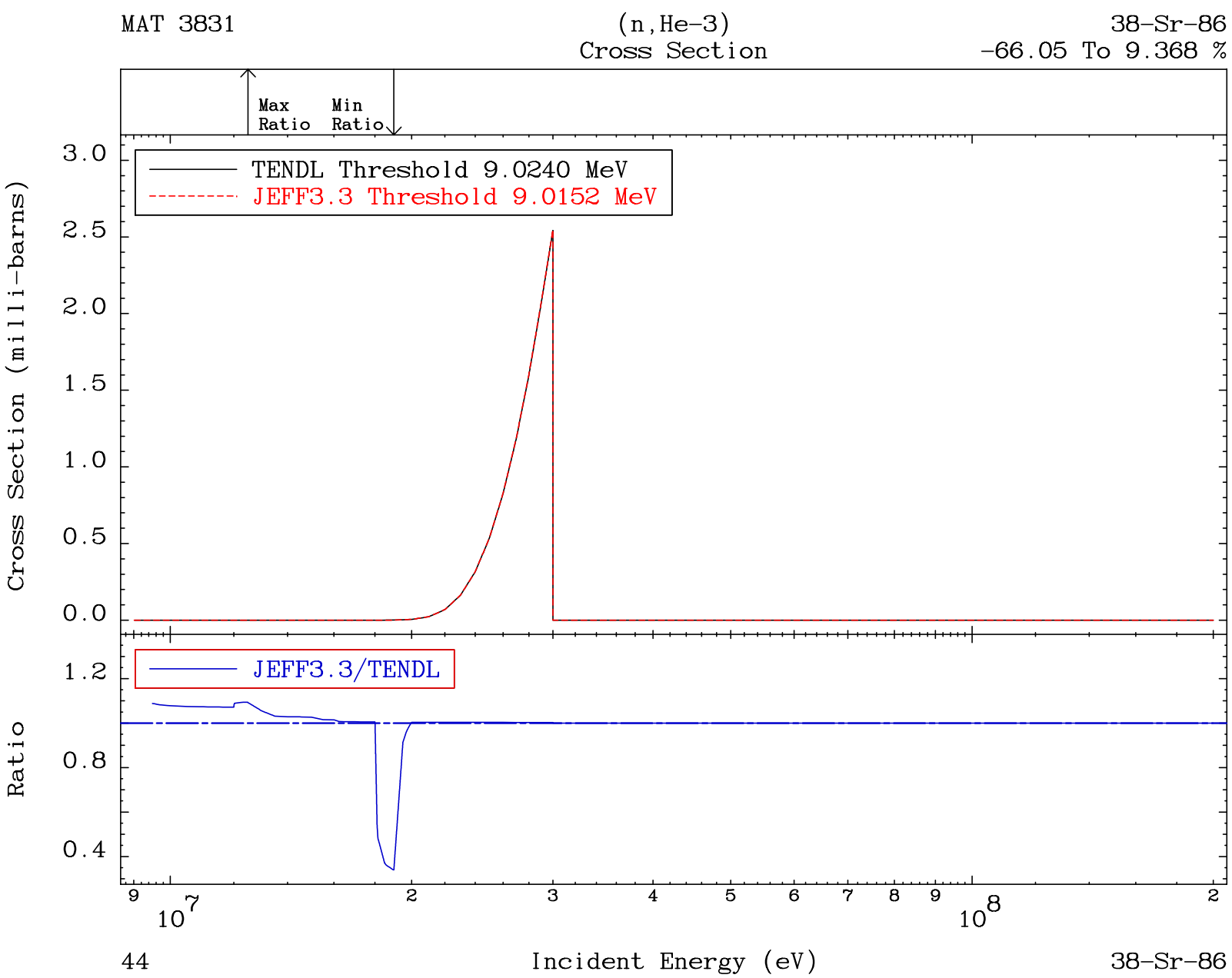

MAT 3831
(n,n') Continuum
Cross Section
38-Sr-86
-0.532 To 0.092 %
Max Ratio
Min Ratio
TENDL Threshold 3.6878 MeV
JEFF3.3 Threshold 3.6878 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
38-Sr-86

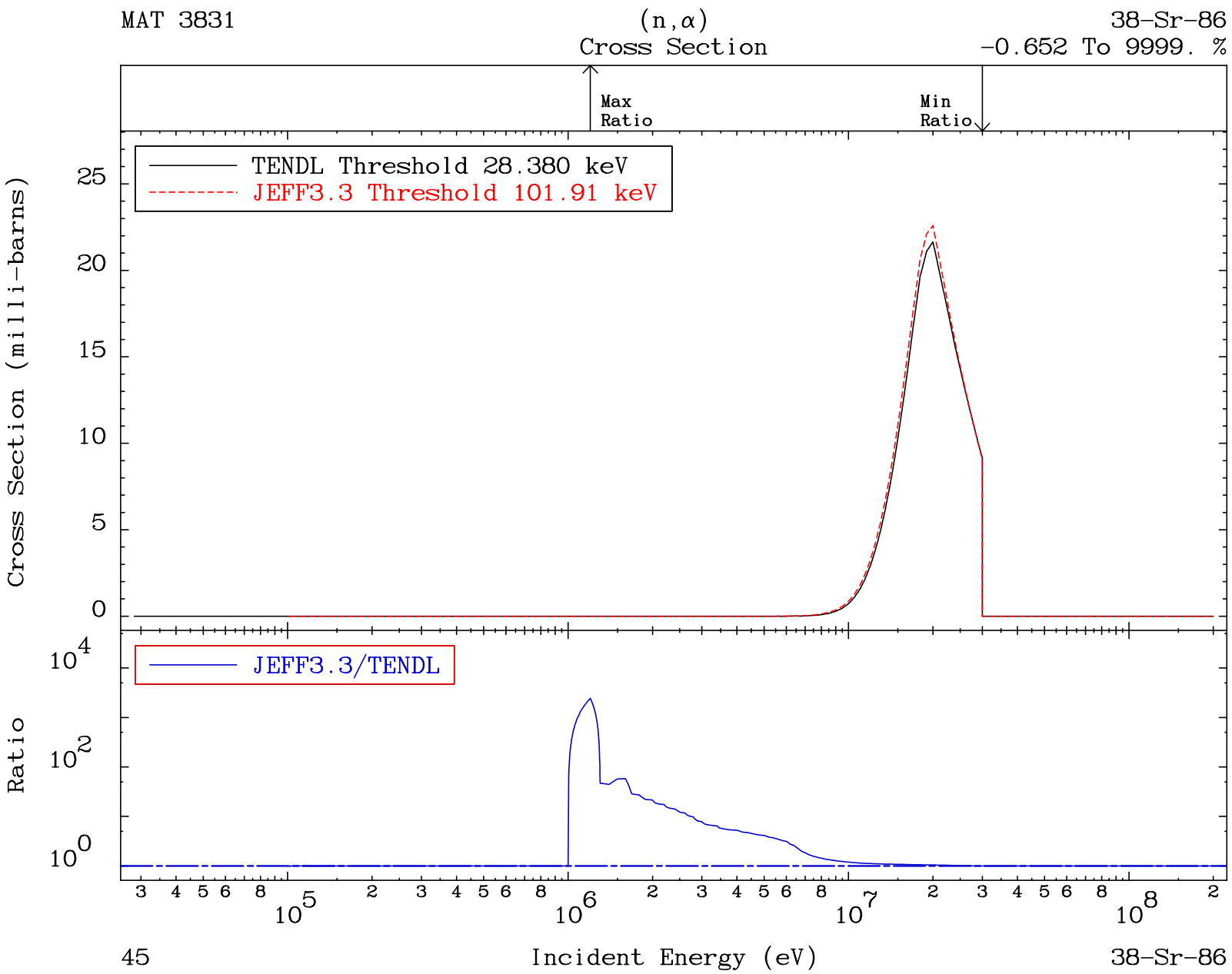

MAT 3831
(n,γ)
Cross Section
38-Sr-86
-99.48 To 3473. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
40
38-Sr-86

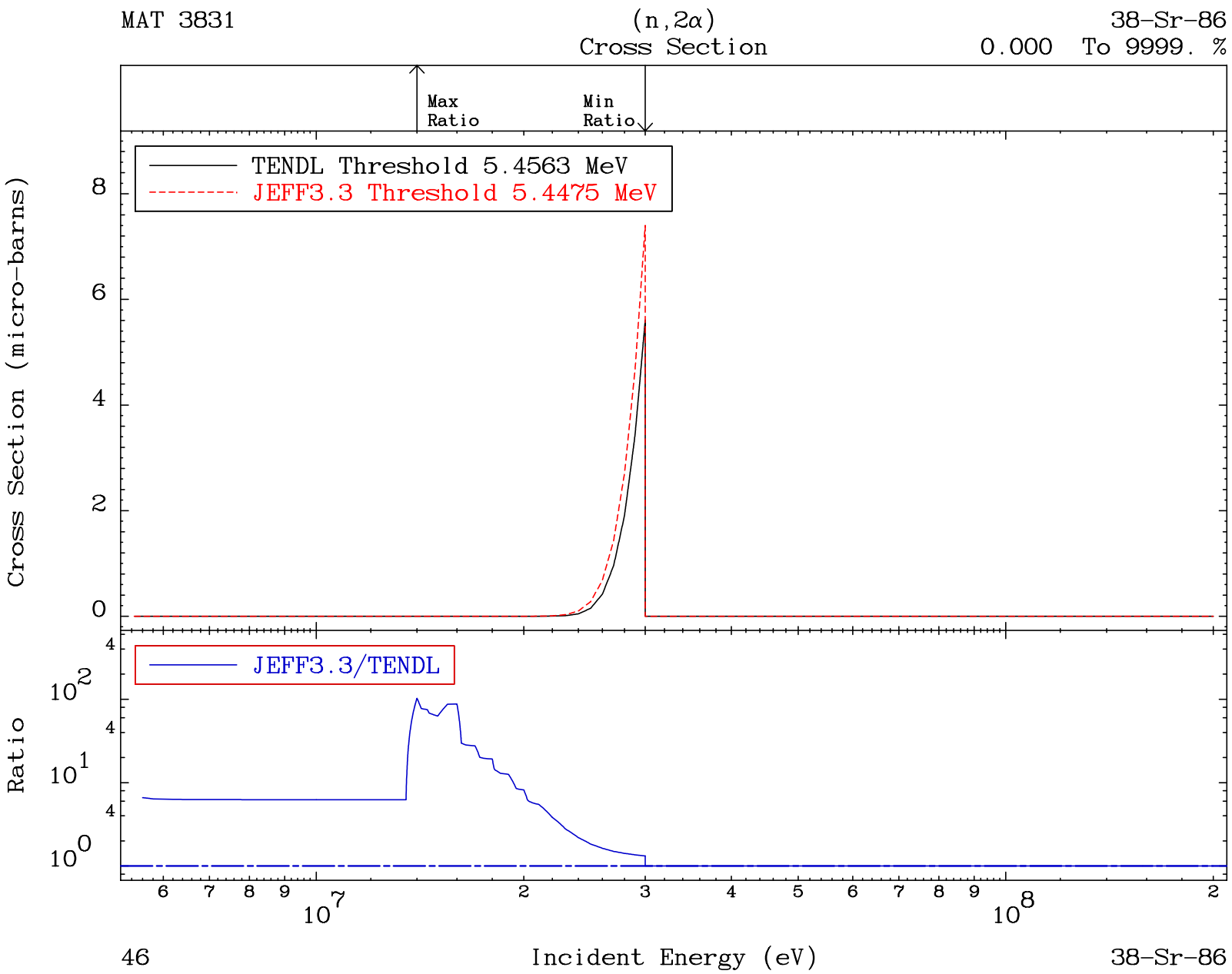

MAT 3831
(n,p)
Cross Section
38-Sr-86
0.000 To 27.95 %
Max Ratio
Min Ratio
TENDL Threshold 1.0144 MeV
JEFF3.3 Threshold 1.0055 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
10^6
10^7
10^8
41
Incident Energy (eV)
38-Sr-86

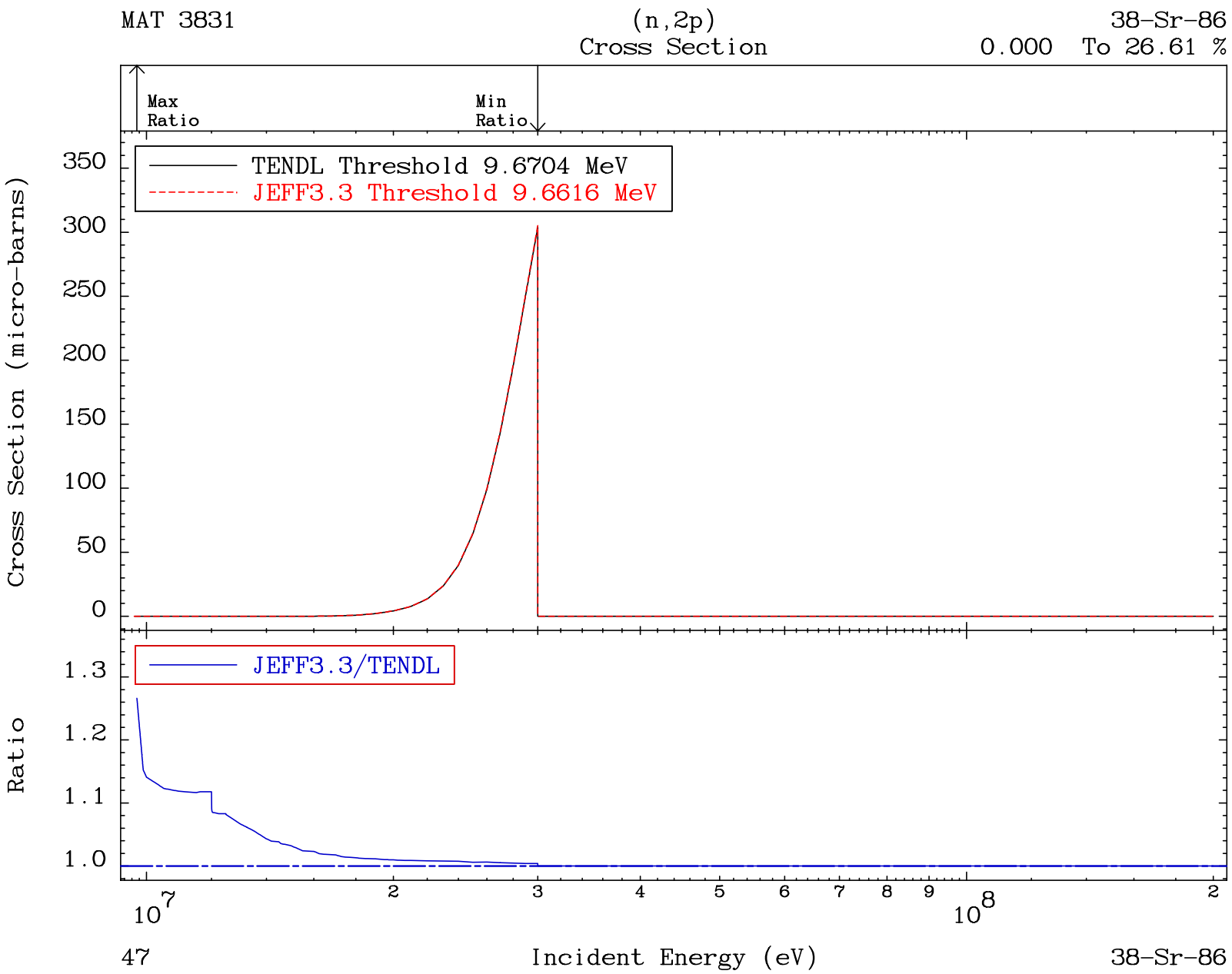

MAT 3831
(n,d)
Cross Section
38-Sr-86
0.000 To 50.40 %
Max Ratio
Min Ratio
TENDL Threshold 7.4831 MeV
JEFF3.3 Threshold 7.4743 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.6
1.4
1.2
1.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
38-Sr-86

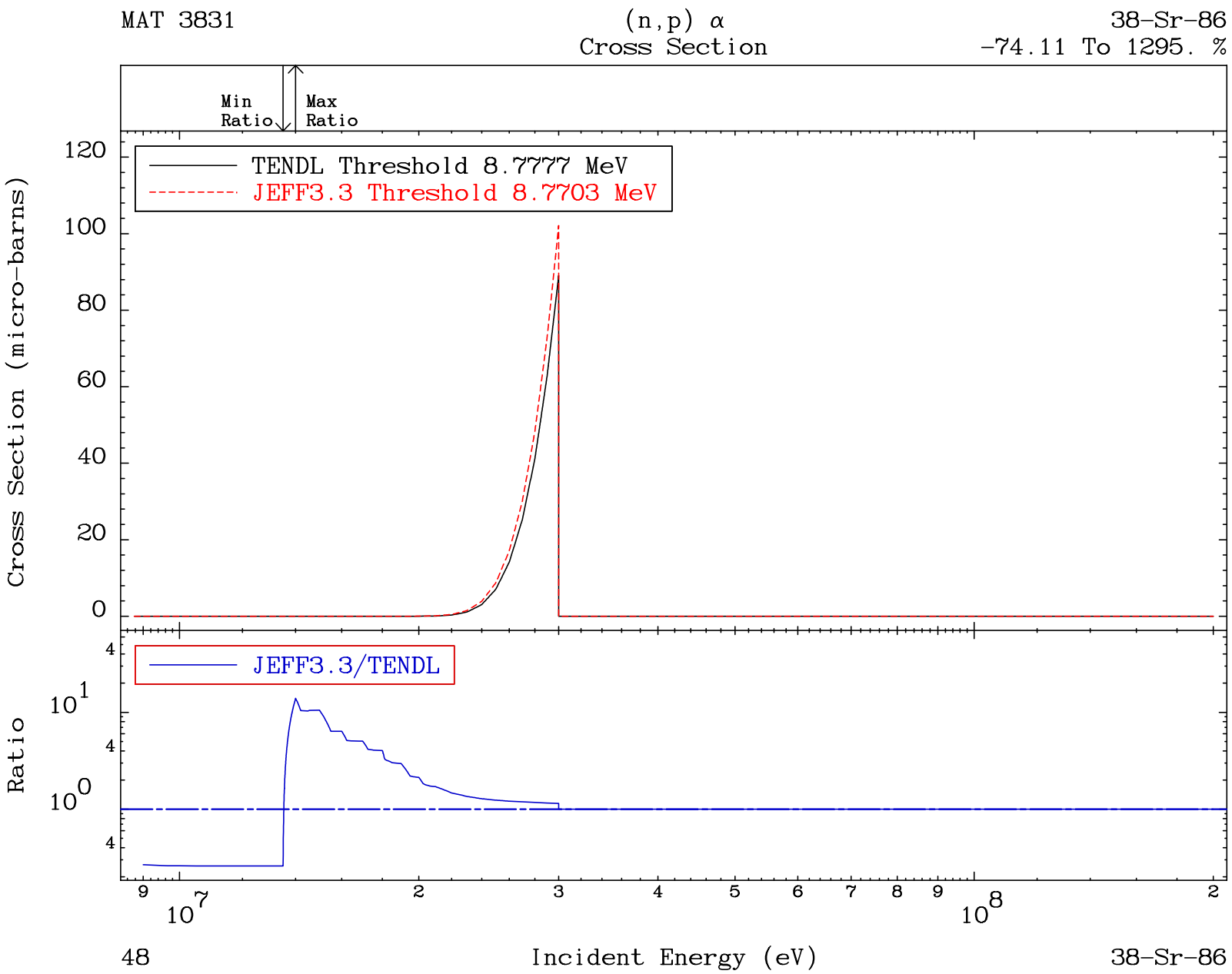

MAT 3831
(n,t)
Cross Section
38-Sr-86
-0.044 To 41.97 %
Max Ratio
Min Ratio
TENDL Threshold 11.788 MeV
JEFF3.3 Threshold 11.779 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
1.0
1.2
1.4
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
38-Sr-86

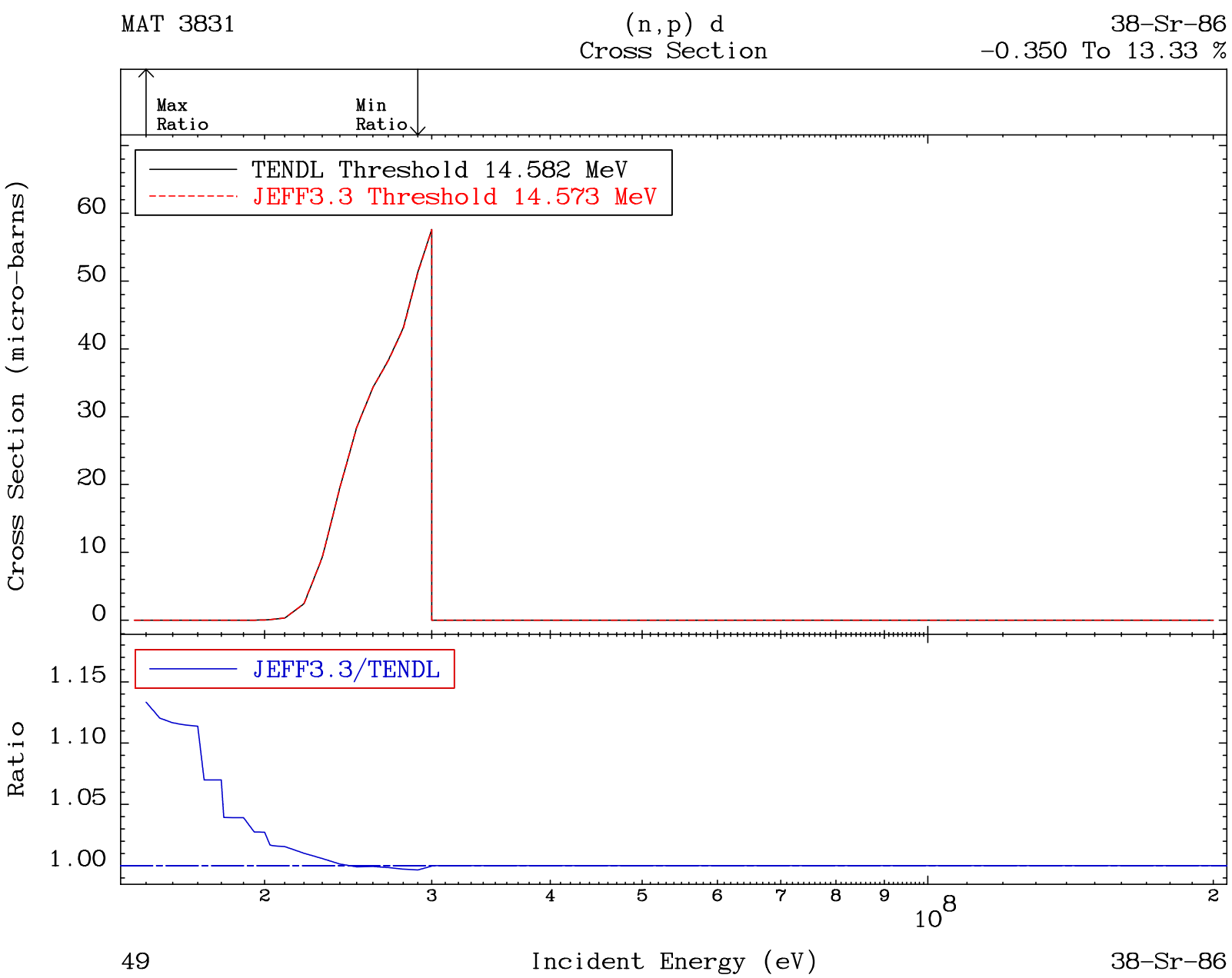

MAT 3831
(n,He-3)
Cross Section
38-Sr-86
-66.05 To 9.368 %
Max Ratio
Min Ratio
TENDL Threshold 9.0240 MeV
JEFF3.3 Threshold 9.0152 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
38-Sr-86

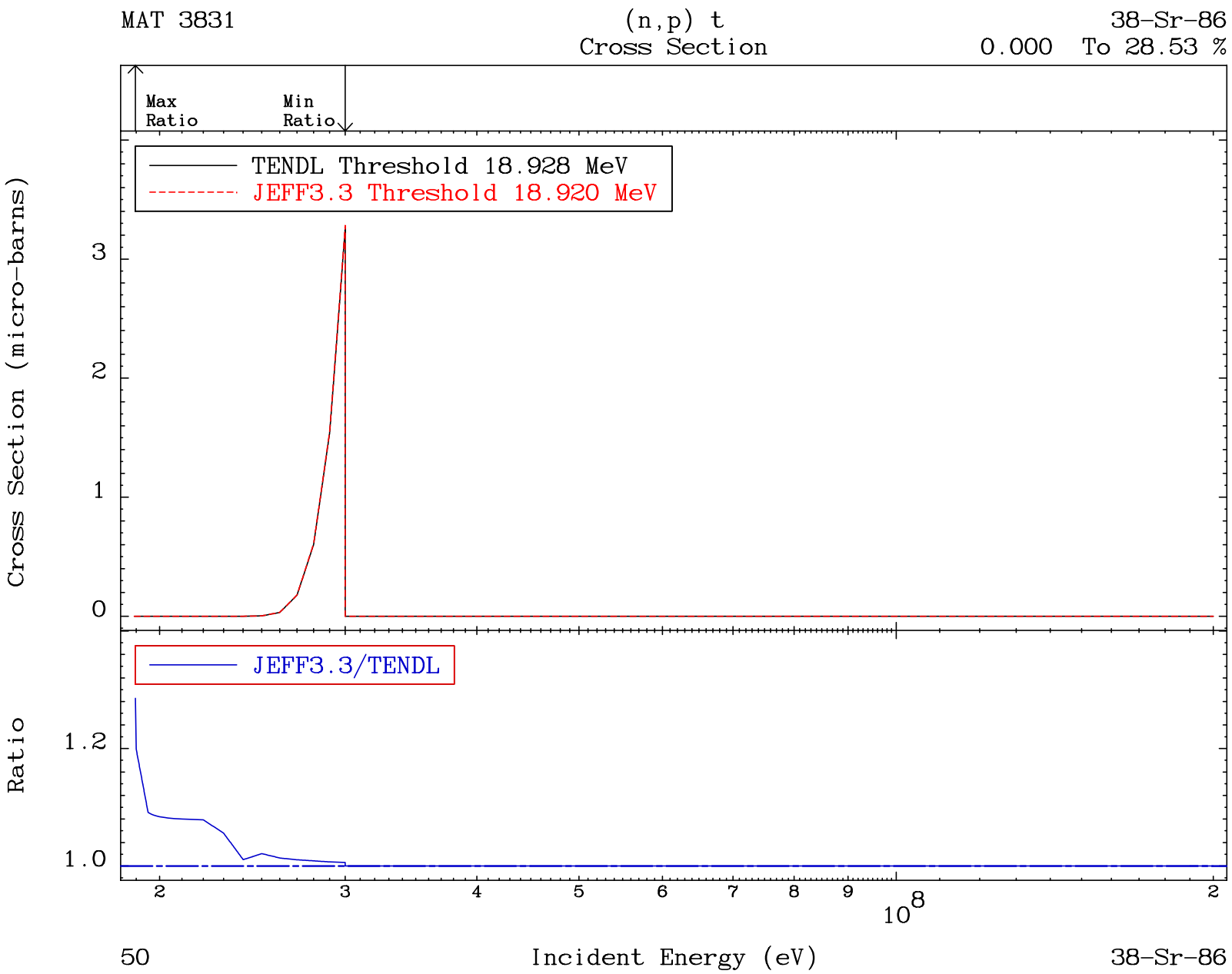

MAT 3831
(n,α)
Cross Section
38-Sr-86
-0.652 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 28.380 keV
JEFF3.3 Threshold 101.91 keV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
45
Incident Energy (eV)
38-Sr-86

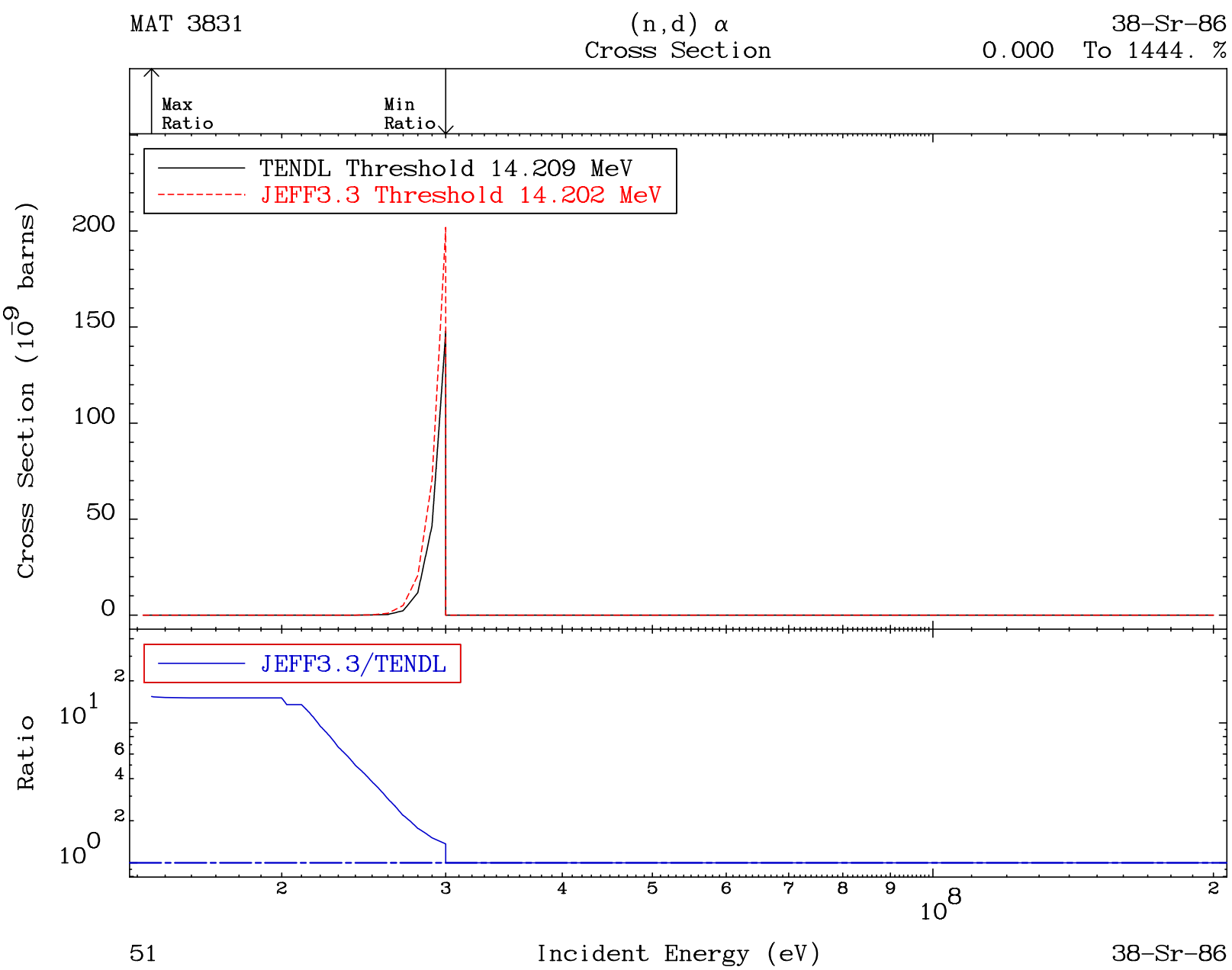

MAT 3831
(n,2α)
Cross Section
38-Sr-86
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.4563 MeV
JEFF3.3 Threshold 5.4475 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
46
38-Sr-86

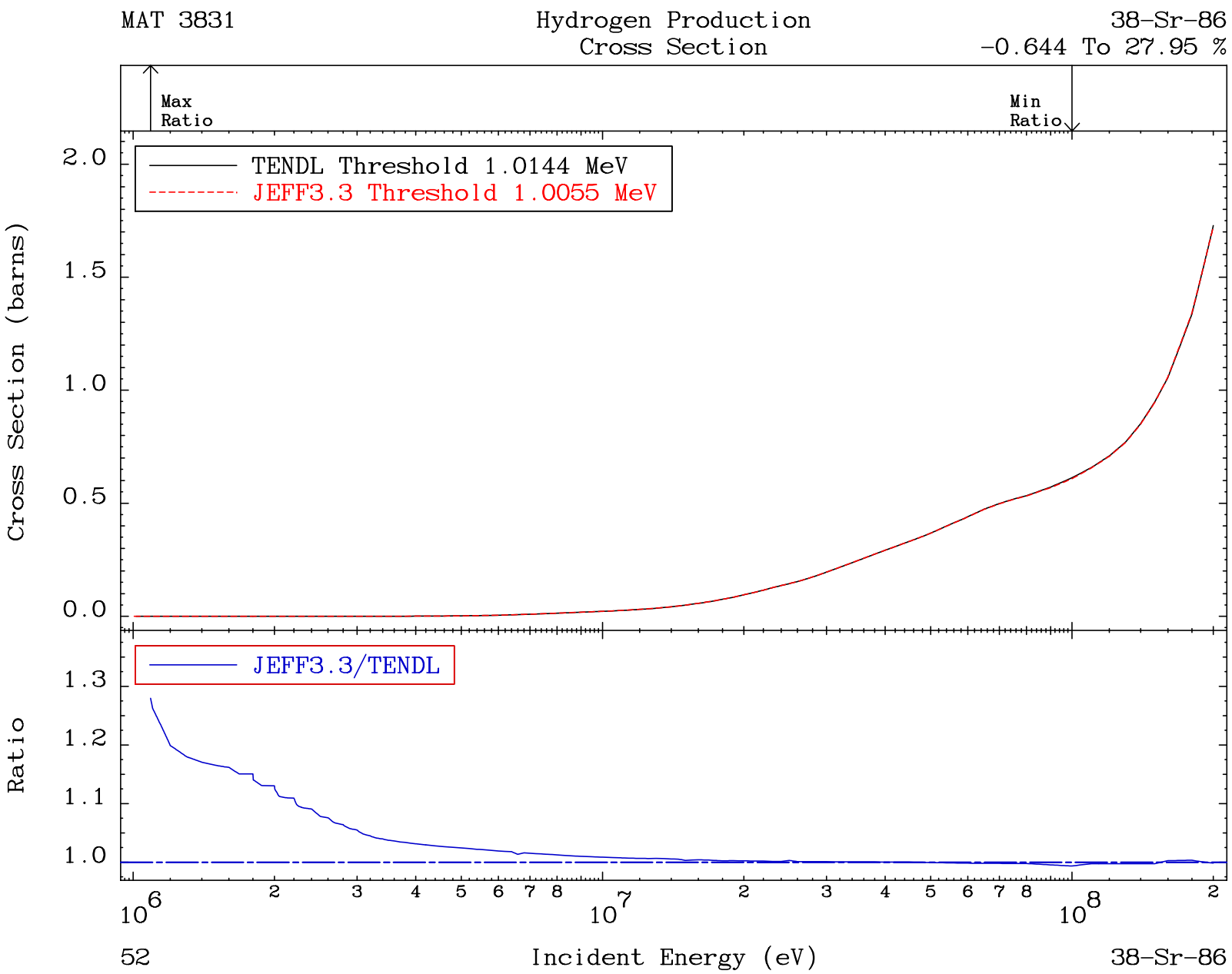

MAT 3831
(n,2p)
Cross Section
38-Sr-86
0.000 To 26.61 %
Max Ratio
Min Ratio
TENDL Threshold 9.6704 MeV
JEFF3.3 Threshold 9.6616 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
38-Sr-86

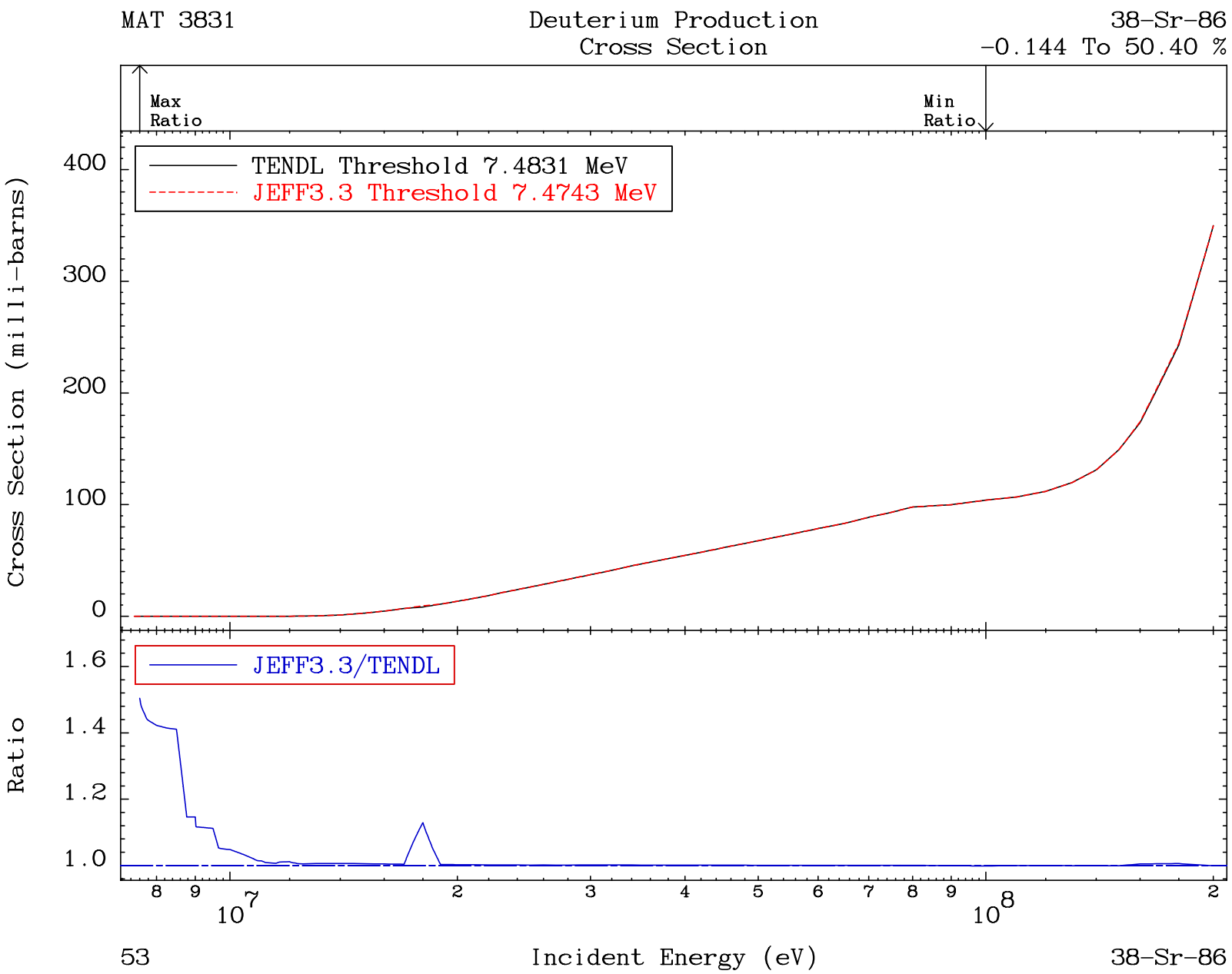

MAT 3831
(n,p) α
Cross Section
38-Sr-86
-74.11 To 1295. %
Min Ratio
Max Ratio
TENDL Threshold 8.7777 MeV
JEFF3.3 Threshold 8.7703 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^1
10^0
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
38-Sr-86

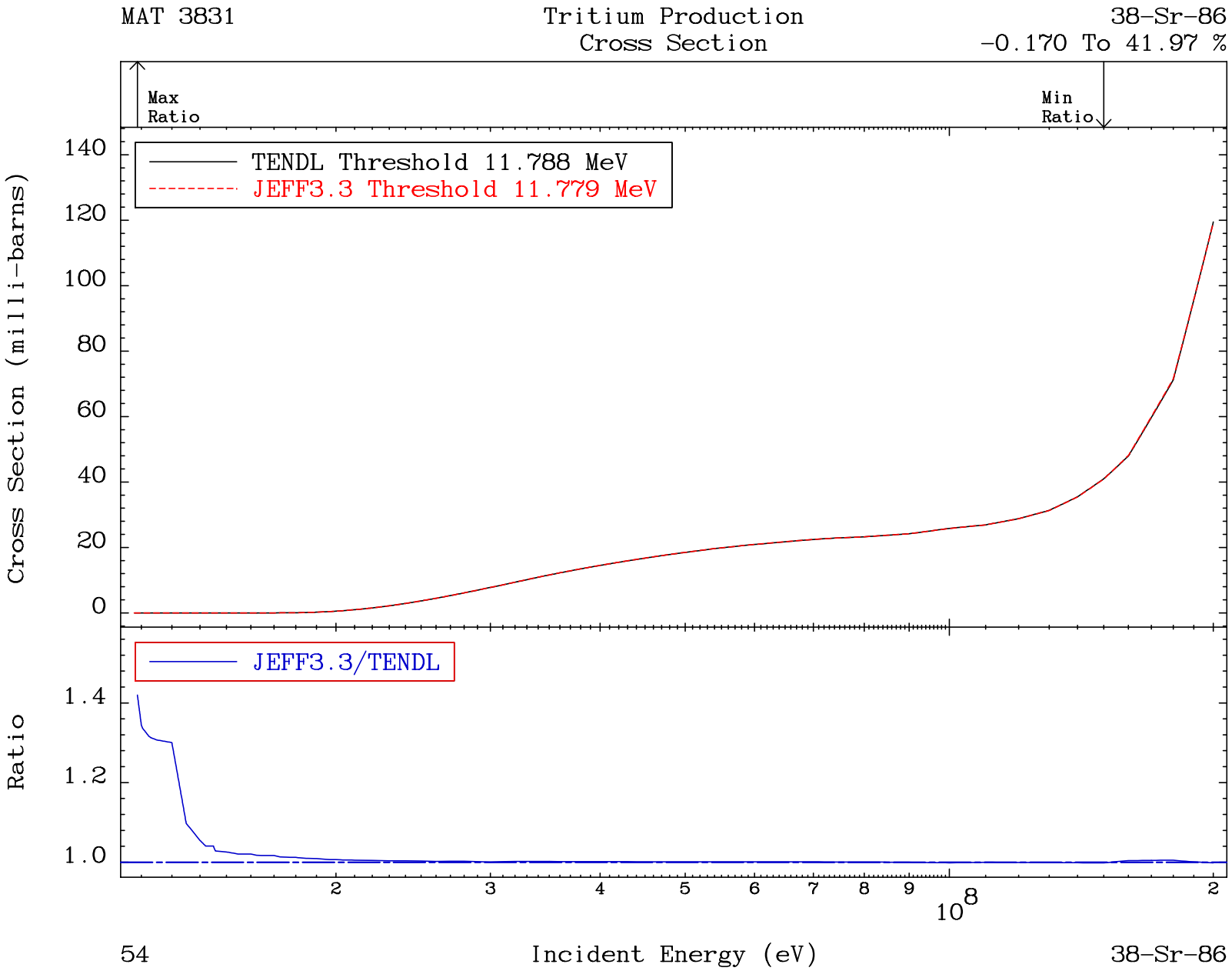

MAT 3831
(n,p) d
Cross Section
38-Sr-86
-0.350 To 13.33 %
Max Ratio
Min Ratio
TENDL Threshold 14.582 MeV
JEFF3.3 Threshold 14.573 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
38-Sr-86

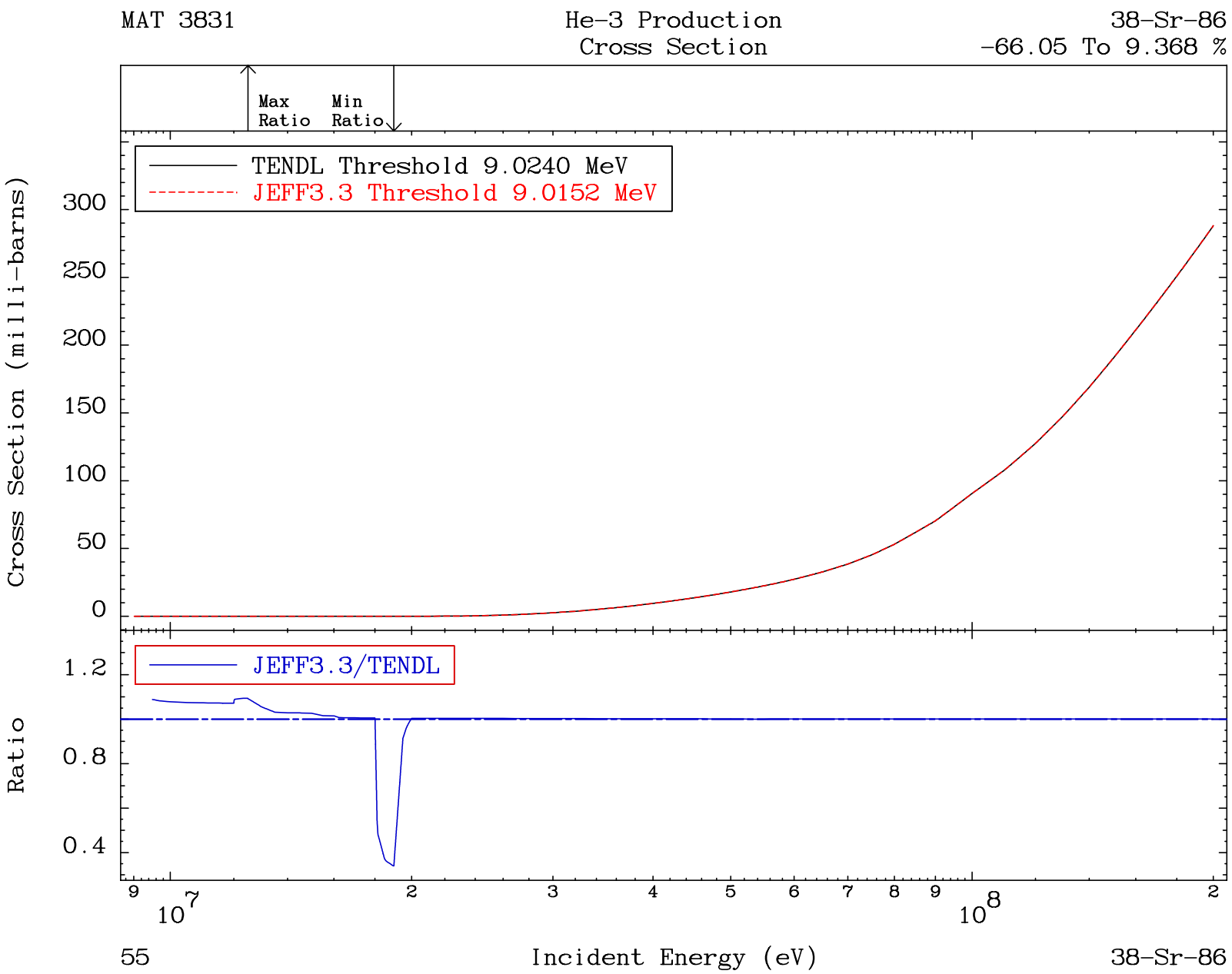

MAT 3831
(n,p) t
Cross Section
38-Sr-86
0.000 To 28.53 %
Max Ratio
Min Ratio
TENDL Threshold 18.928 MeV
JEFF3.3 Threshold 18.920 MeV
Cross Section (micro-barns)
0
1
2
3
JEFF3.3/TENDL
Ratio
1.0
1.2
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
38-Sr-86

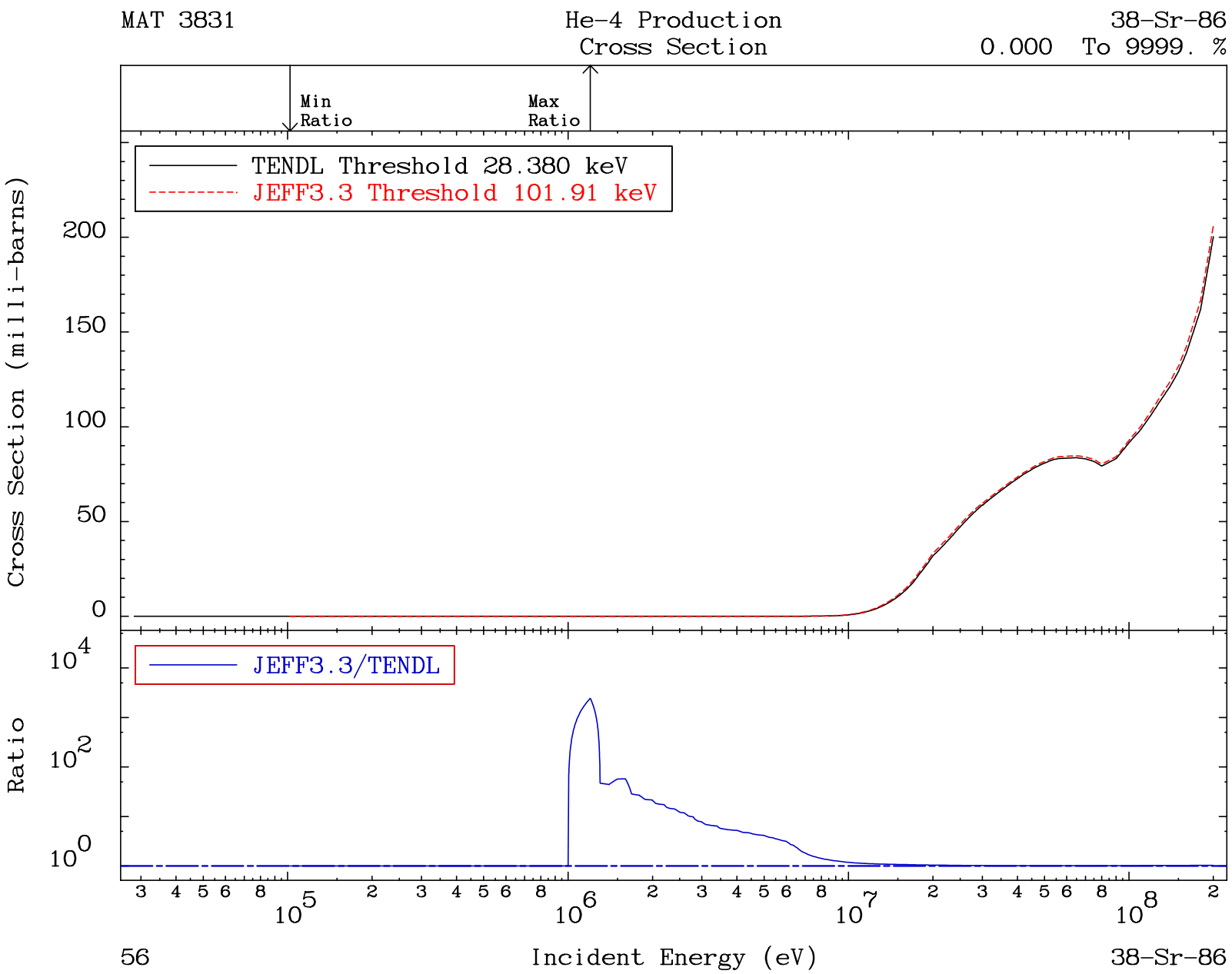

MAT 3831
(n,d) α
Cross Section
38-Sr-86
0.000 To 1444. %
Max Ratio
Min Ratio
TENDL Threshold 14.209 MeV
JEFF3.3 Threshold 14.202 MeV
Cross Section (10^{-9} barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
38-Sr-86

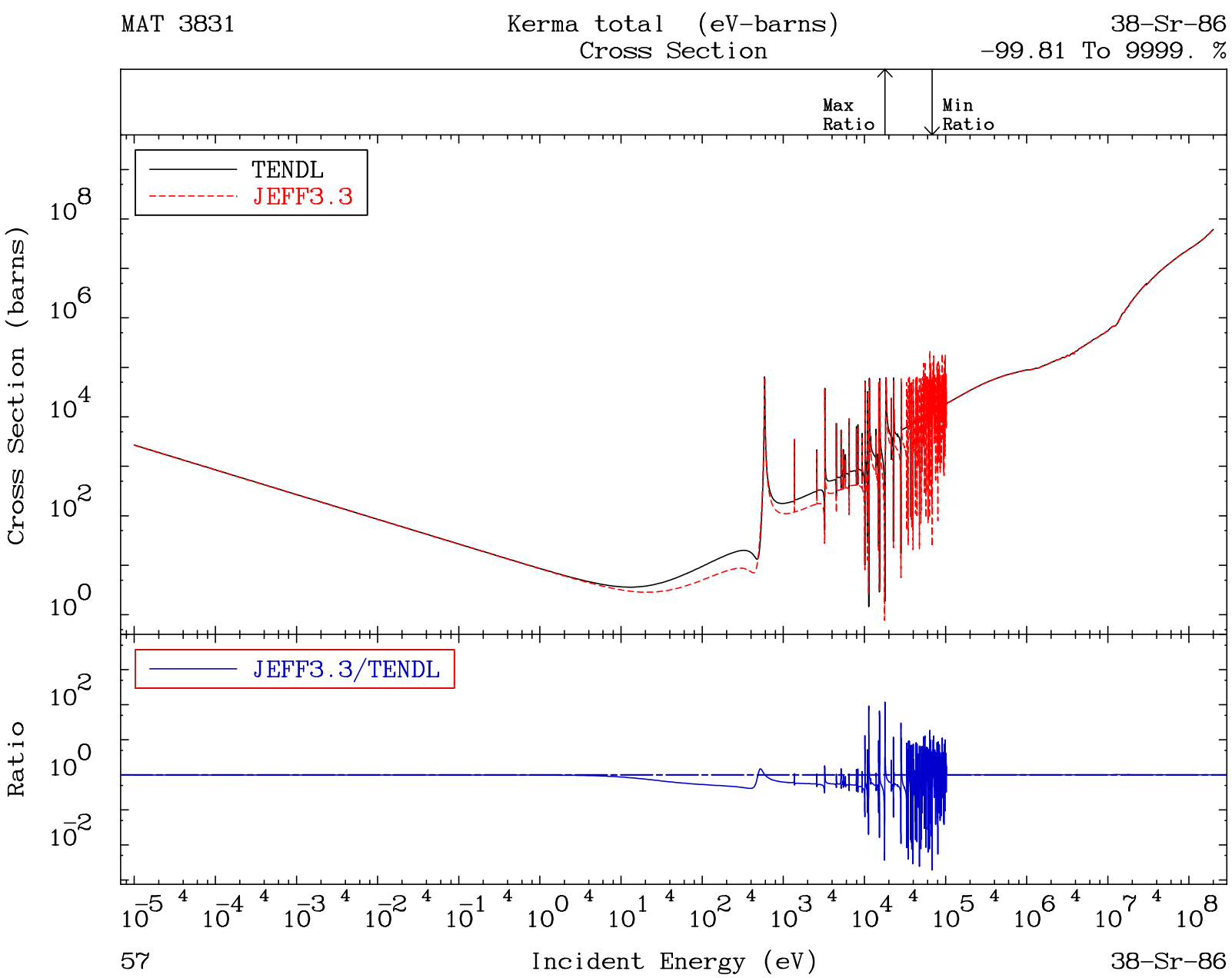

MAT 3831
Hydrogen Production
Cross Section
38-Sr-86
-0.644 To 27.95 %
Max Ratio
Min Ratio
TENDL Threshold 1.0144 MeV
JEFF3.3 Threshold 1.0055 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
10^6
10^7
10^8
Incident Energy (eV)
52
38-Sr-86

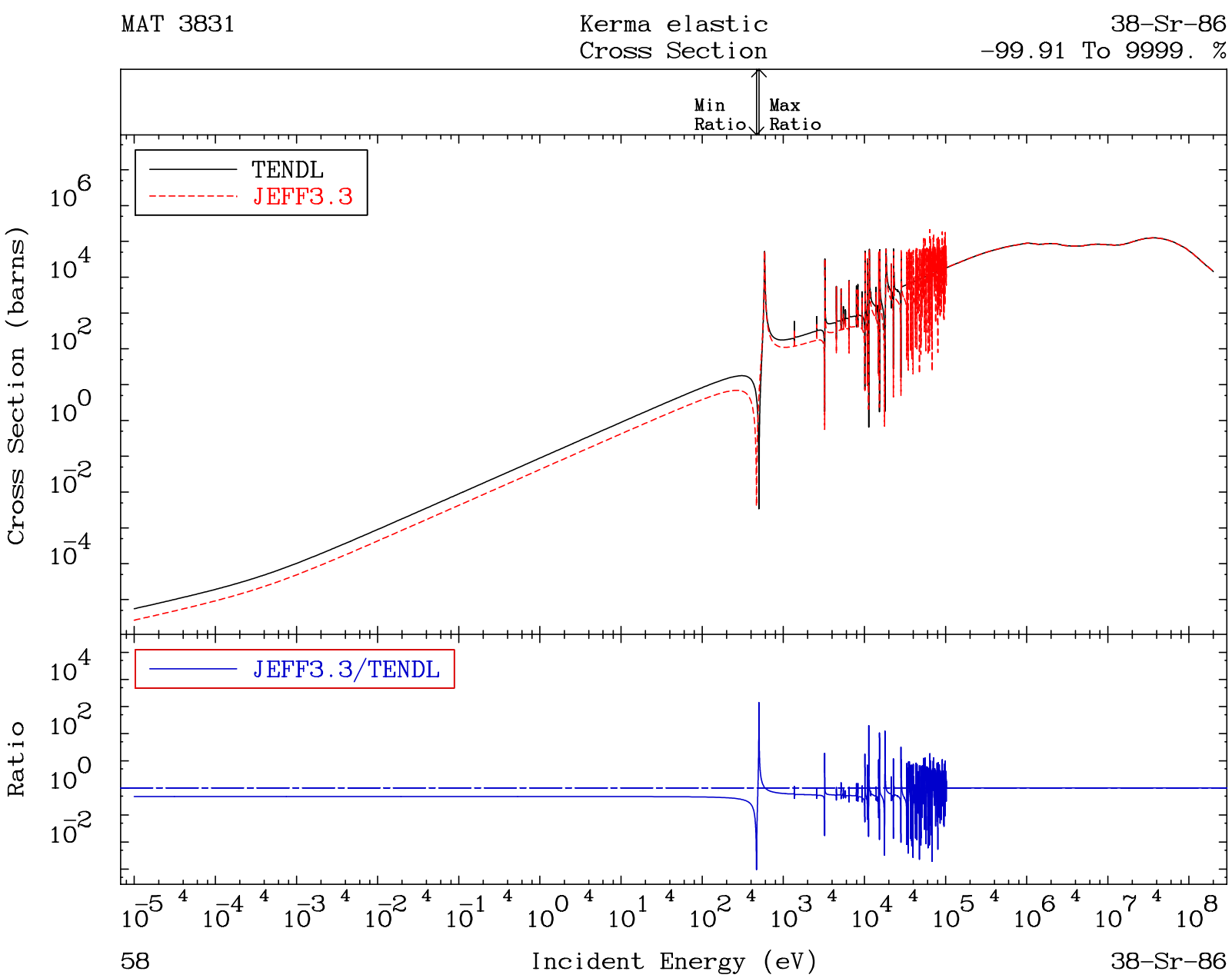

MAT 3831
Deuterium Production
Cross Section
38-Sr-86
-0.144 To 50.40 %
Max Ratio
Min Ratio
TENDL Threshold 7.4831 MeV
JEFF3.3 Threshold 7.4743 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.6
1.4
1.2
1.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
38-Sr-86

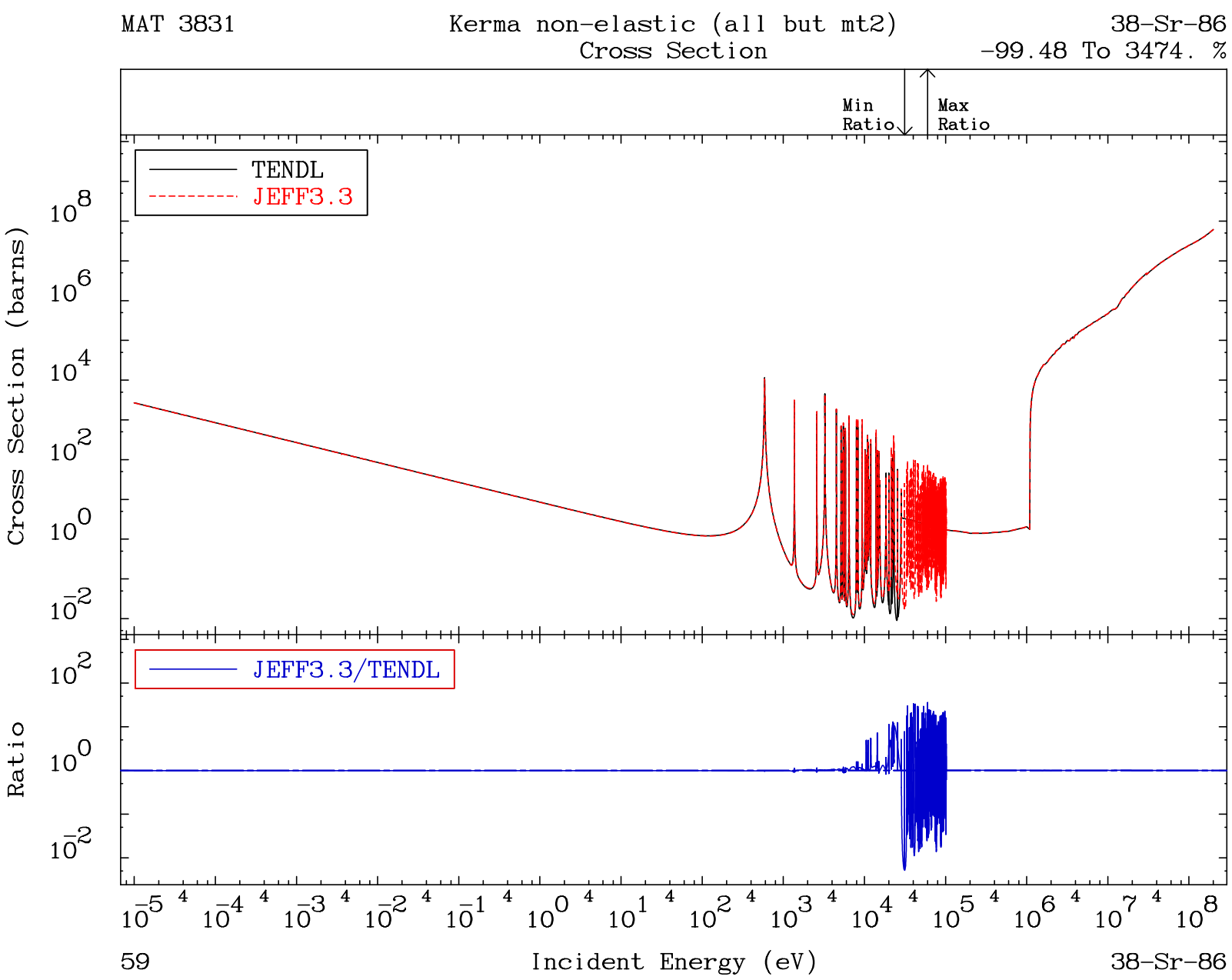

MAT 3831
Tritium Production
Cross Section
38-Sr-86
-0.170 To 41.97 %
Max
Ratio
Min
Ratio
TENDL Threshold 11.788 MeV
JEFF3.3 Threshold 11.779 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
38-Sr-86

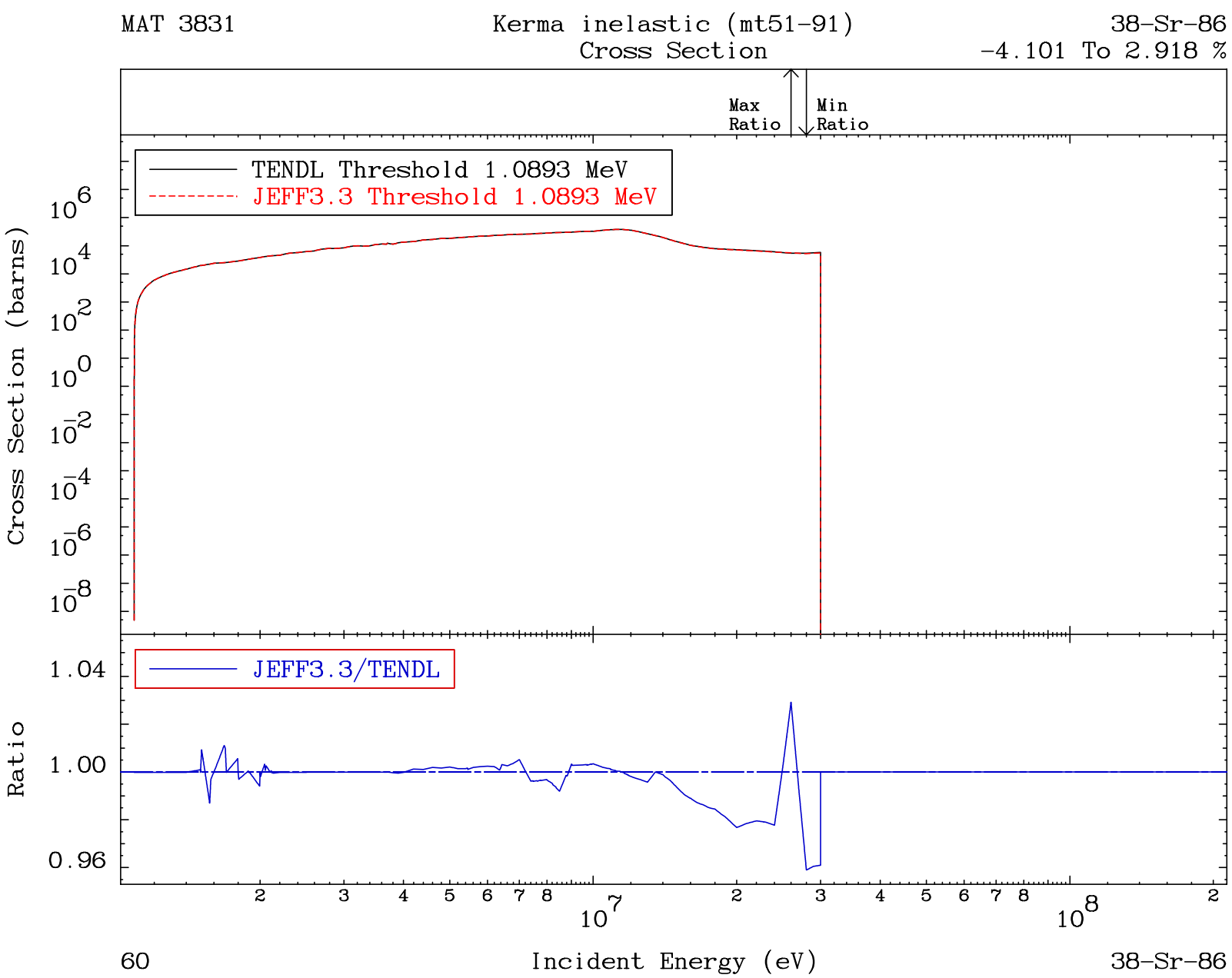

MAT 3831
He-3 Production
Cross Section
38-Sr-86
-66.05 To 9.368 %
Max Ratio
Min Ratio
TENDL Threshold 9.0240 MeV
JEFF3.3 Threshold 9.0152 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
9
2
3
4
5
6
7
8
9
2
10^7
10^8
55
Incident Energy (eV)
38-Sr-86

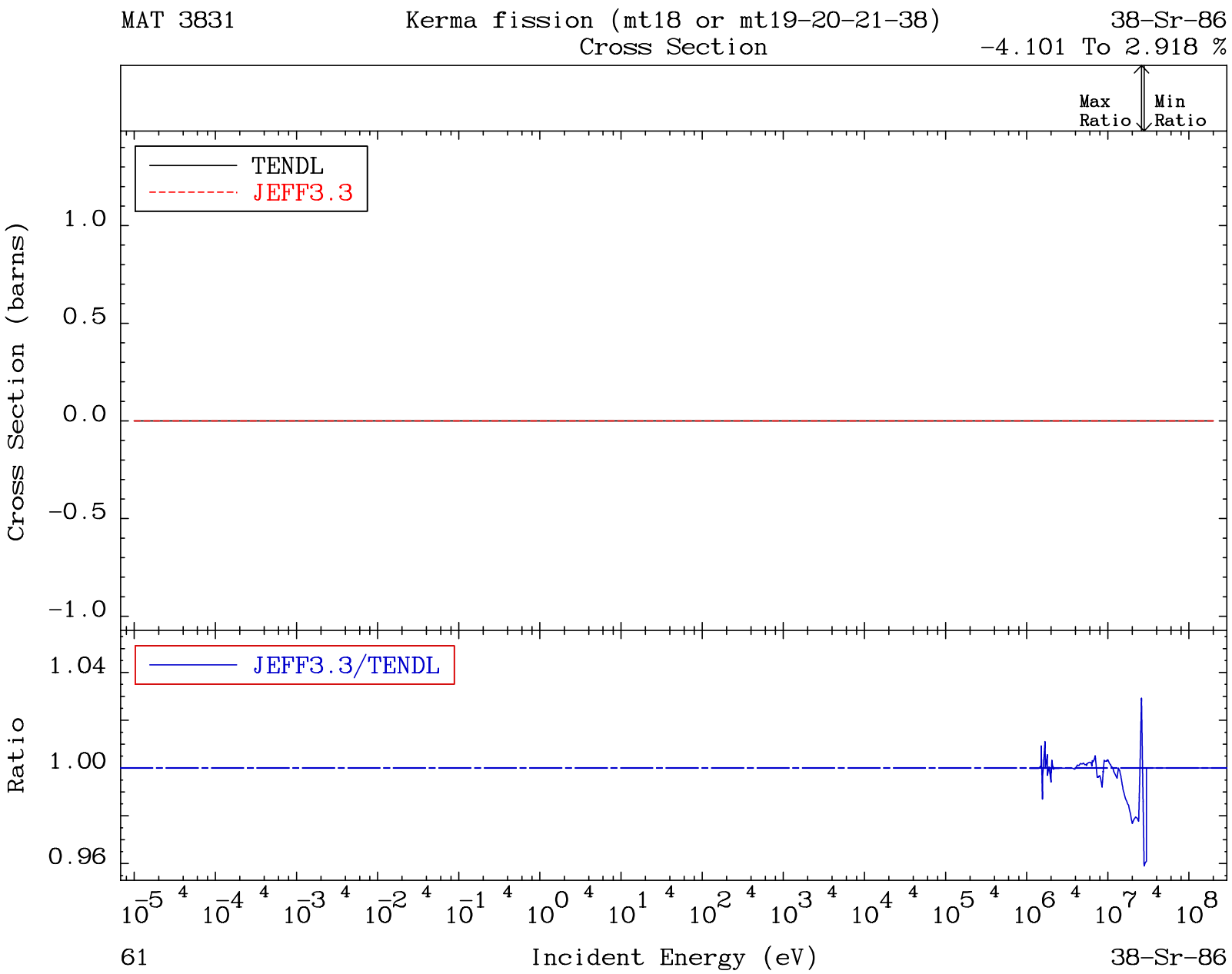

MAT 3831
He-4 Production
Cross Section
38-Sr-86
0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 28.380 keV
JEFF3.3 Threshold 101.91 keV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
56
Incident Energy (eV)
38-Sr-86

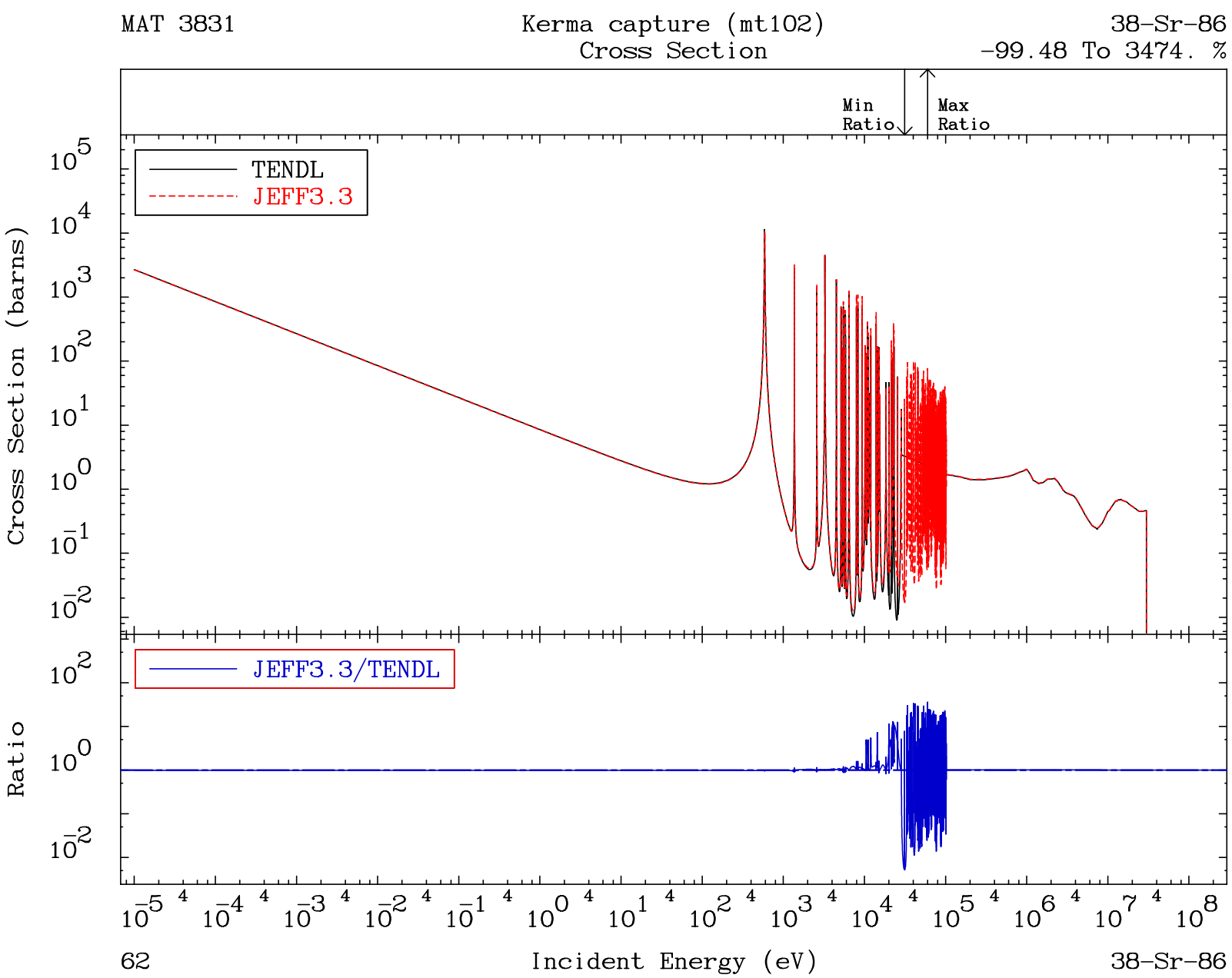

MAT 3831
Kerma total (eV-barns)
Cross Section
38-Sr-86
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
57
38-Sr-86

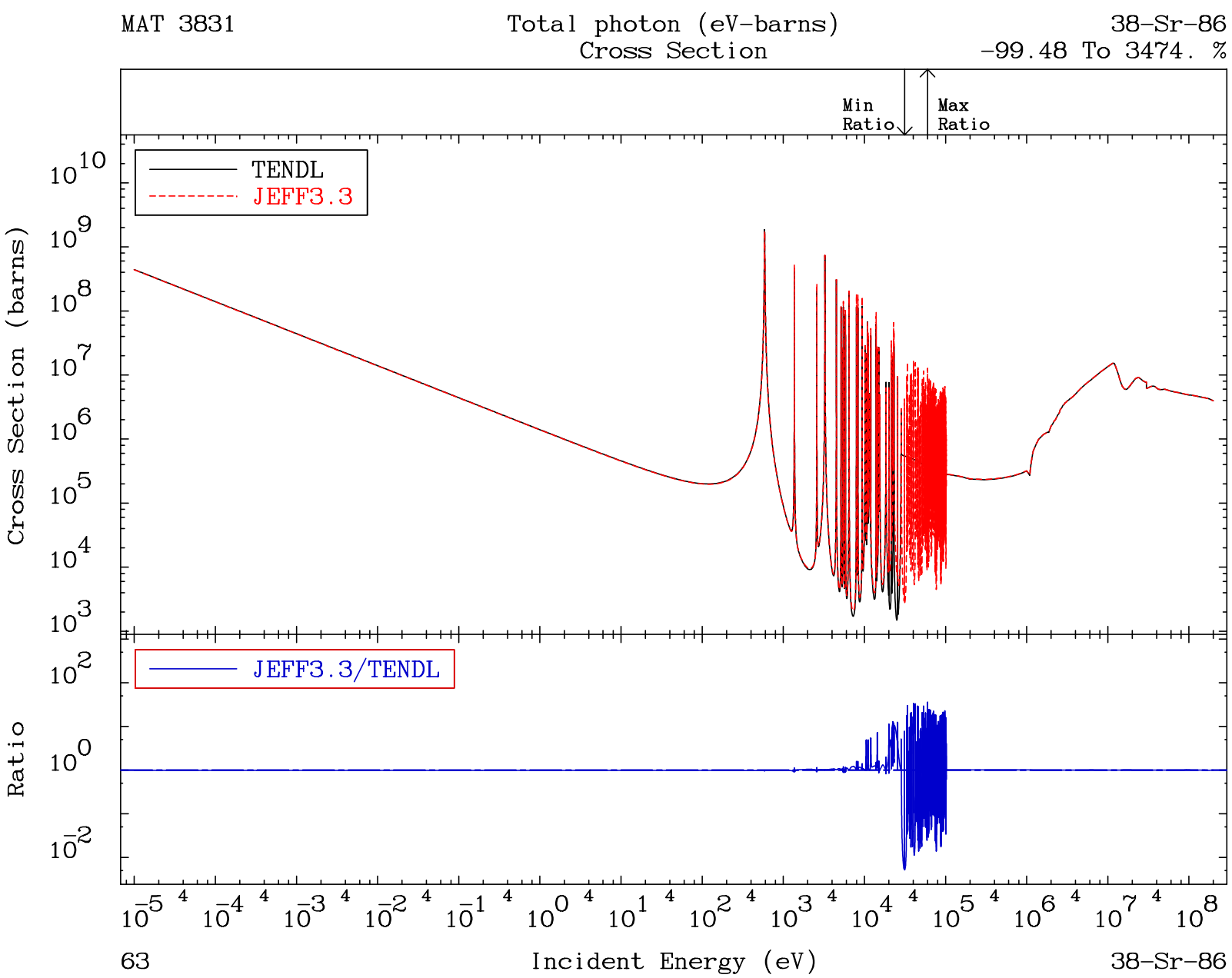

MAT 3831
Kerma elastic
Cross Section
38-Sr-86
-99.91 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
58
38-Sr-86

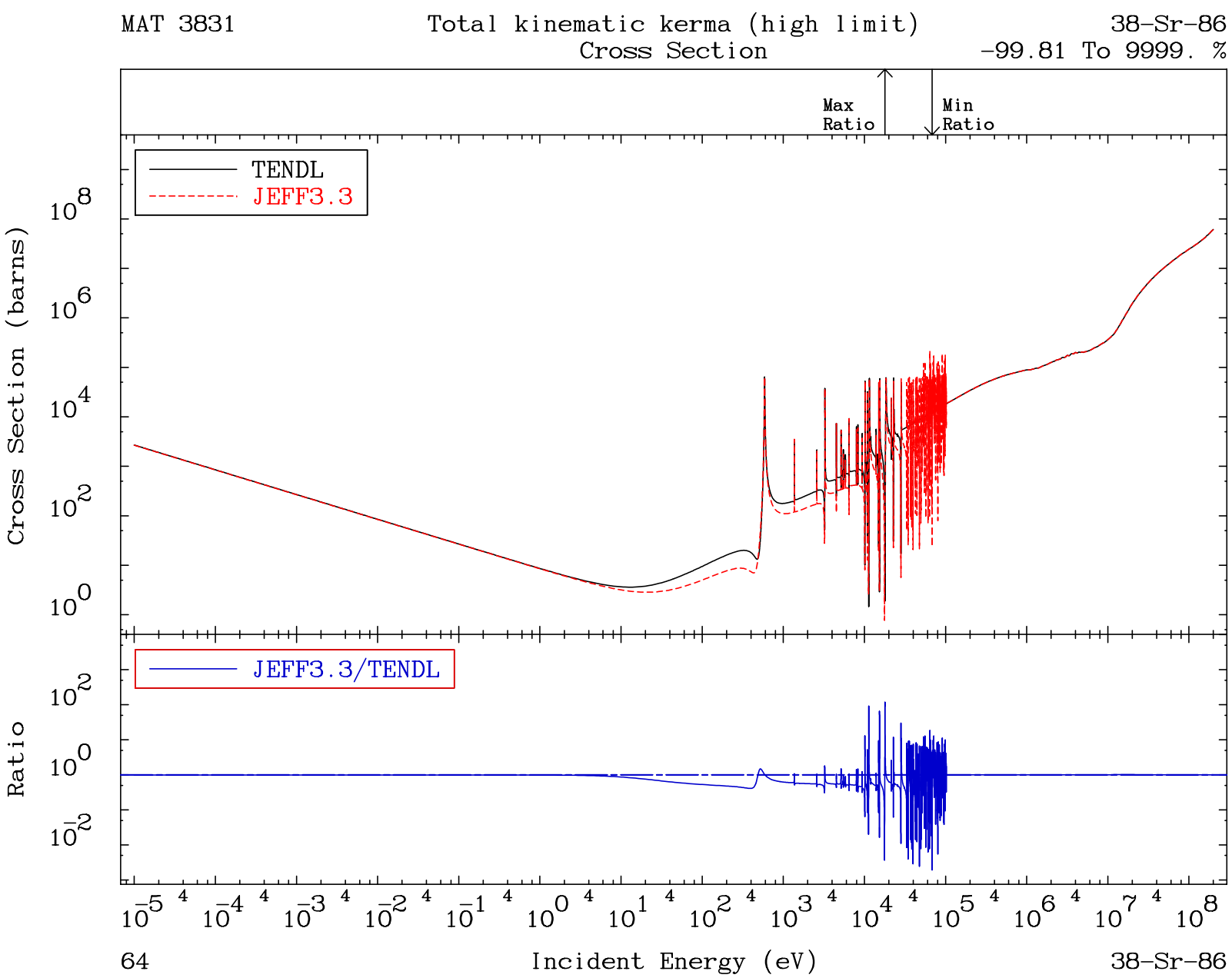

MAT 3831
Kerma non-elastic (all but mt2)
Cross Section
38-Sr-86
-99.48 To 3474. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
59
38-Sr-86

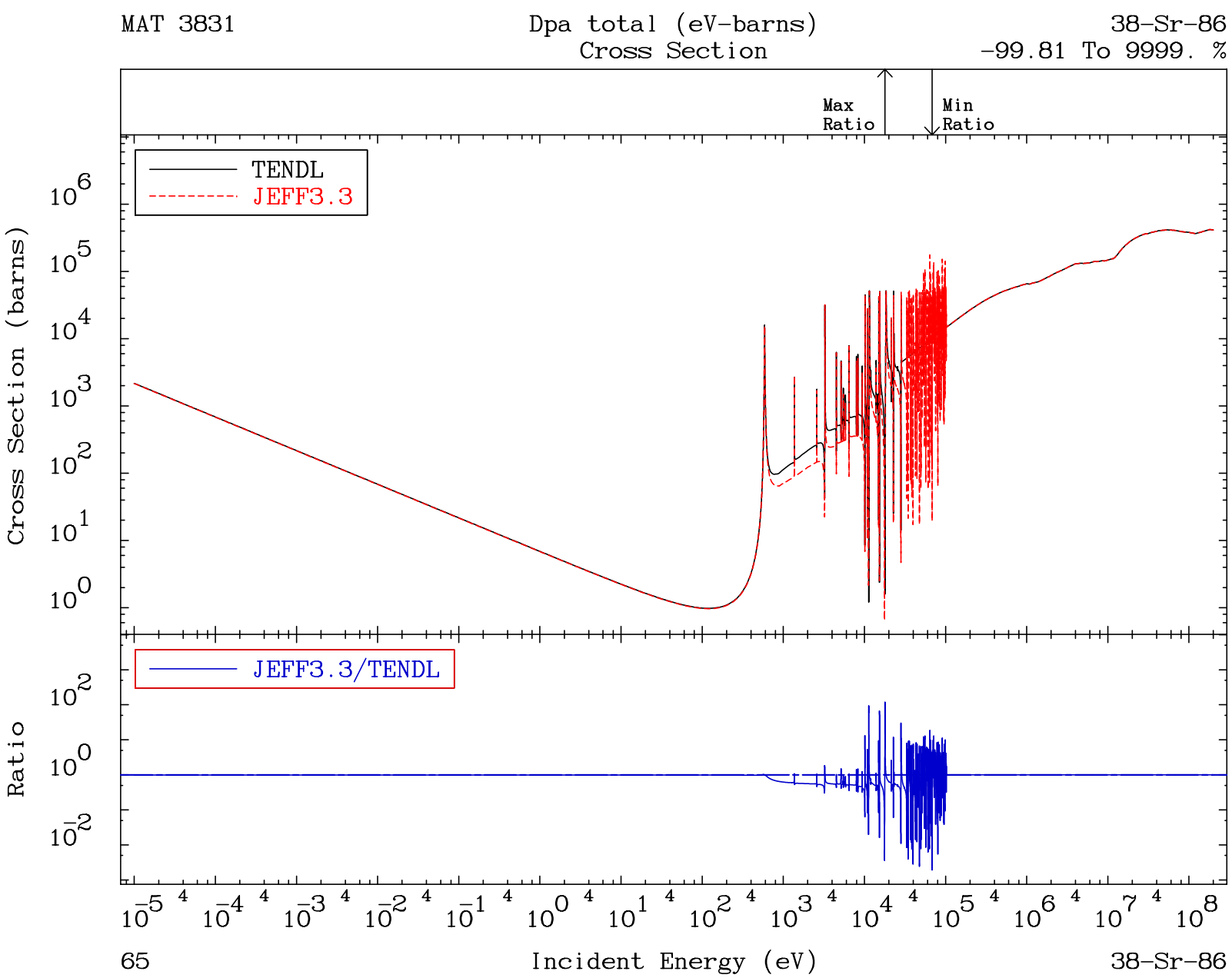

MAT 3831
Kerma inelastic (mt51-91)
Cross Section
38-Sr-86
-4.101 To 2.918 %
Max Ratio
Min Ratio
TENDL Threshold 1.0893 MeV
JEFF3.3 Threshold 1.0893 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
60
38-Sr-86

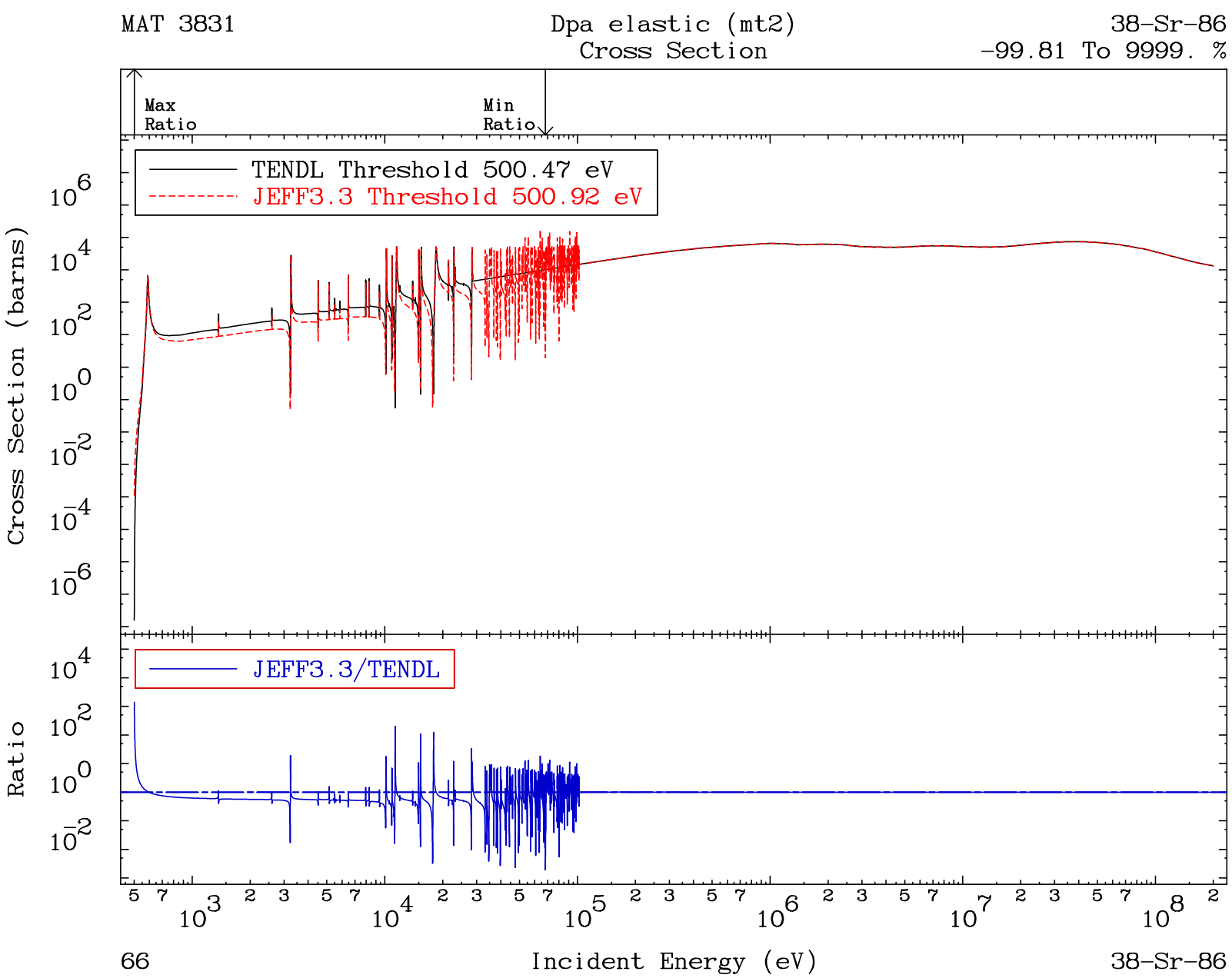

MAT 3831
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
38-Sr-86
-4.101 To 2.918 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.04
1.00
0.96
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
61
Incident Energy (eV)
38-Sr-86

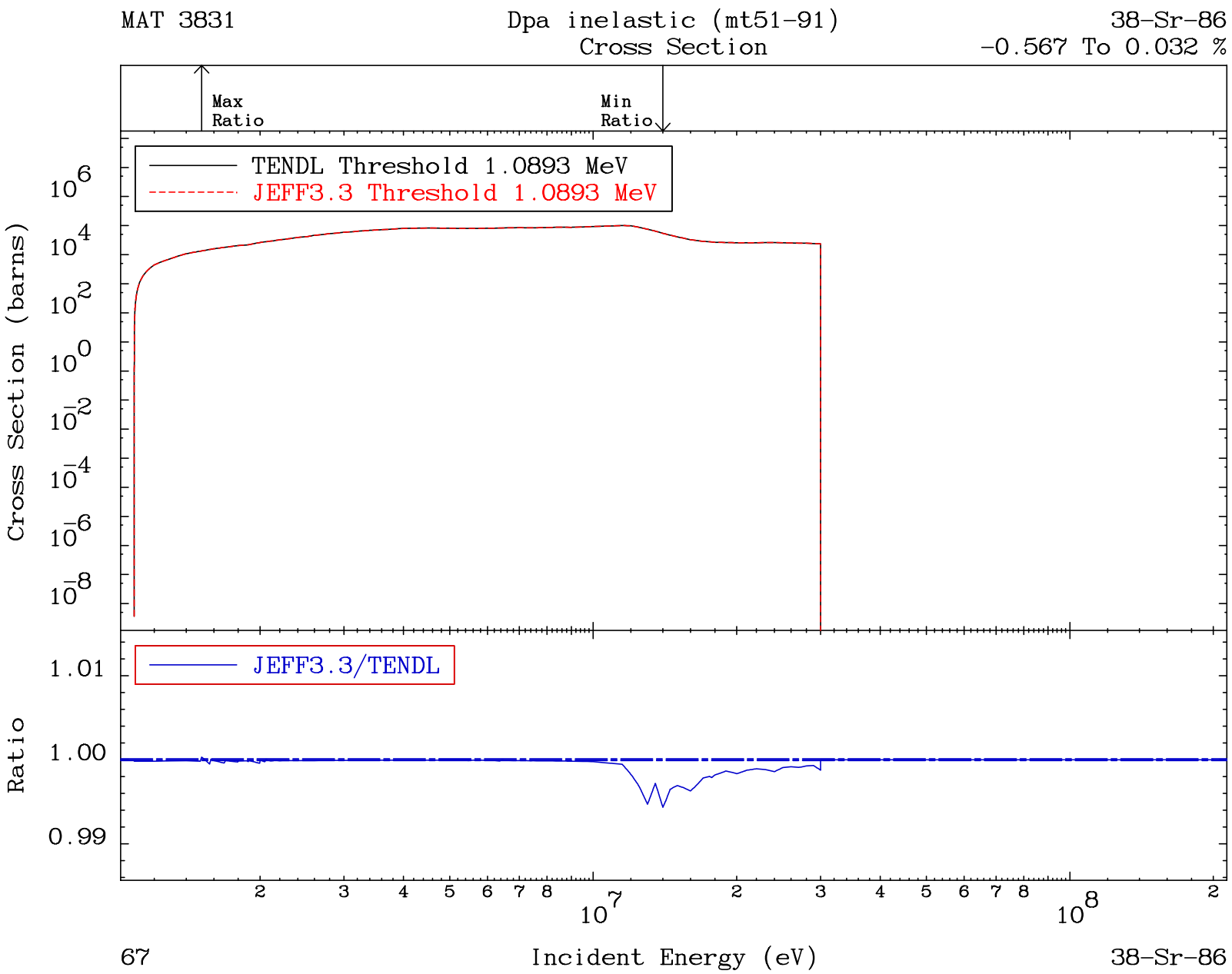

MAT 3831
Kerma capture (mt102)
Cross Section
38-Sr-86
-99.48 To 3474. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
38-Sr-86

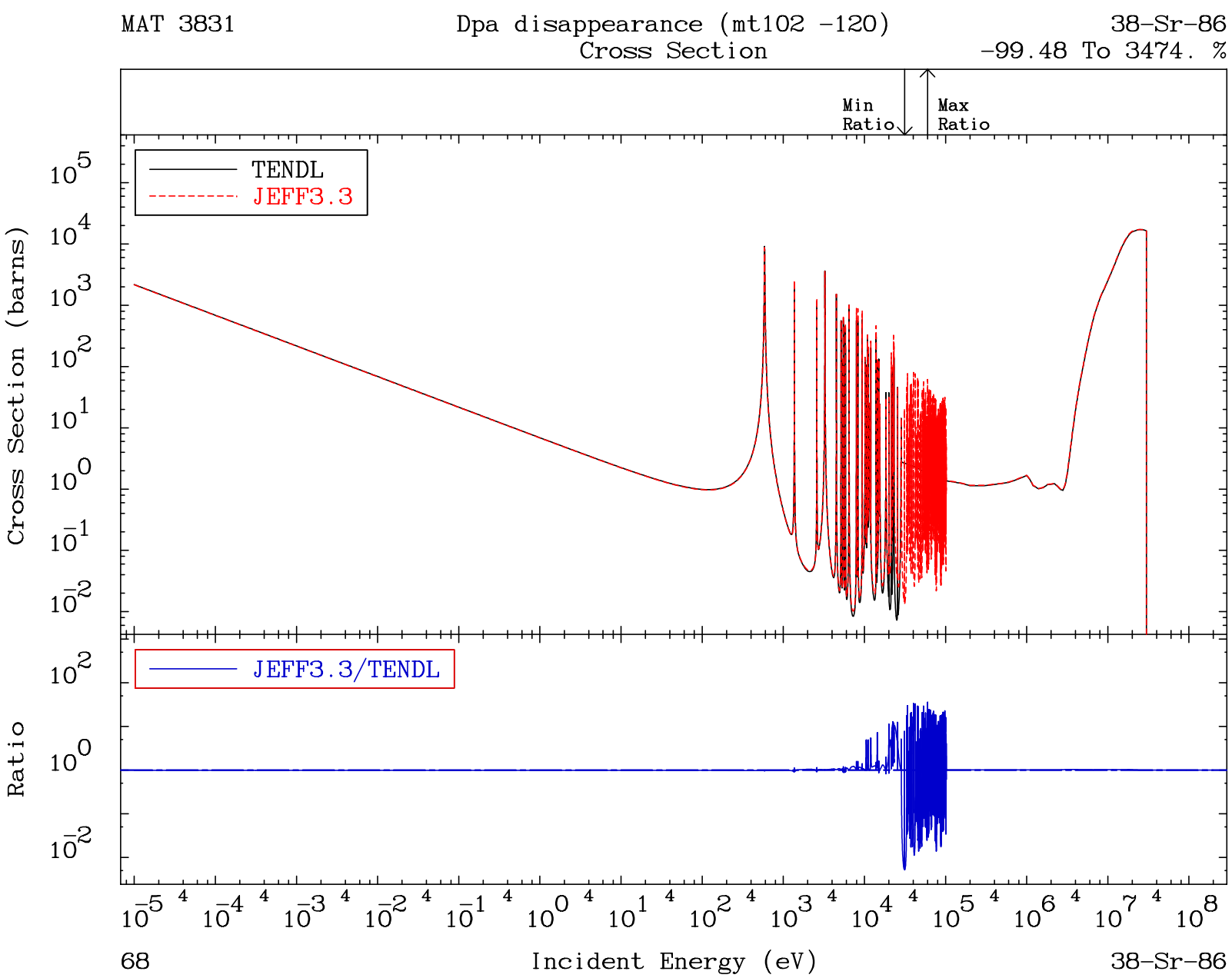

MAT 3831
Total photon (eV-barns)
Cross Section
38-Sr-86
-99.48 To 3474. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
63
Incident Energy (eV)
38-Sr-86

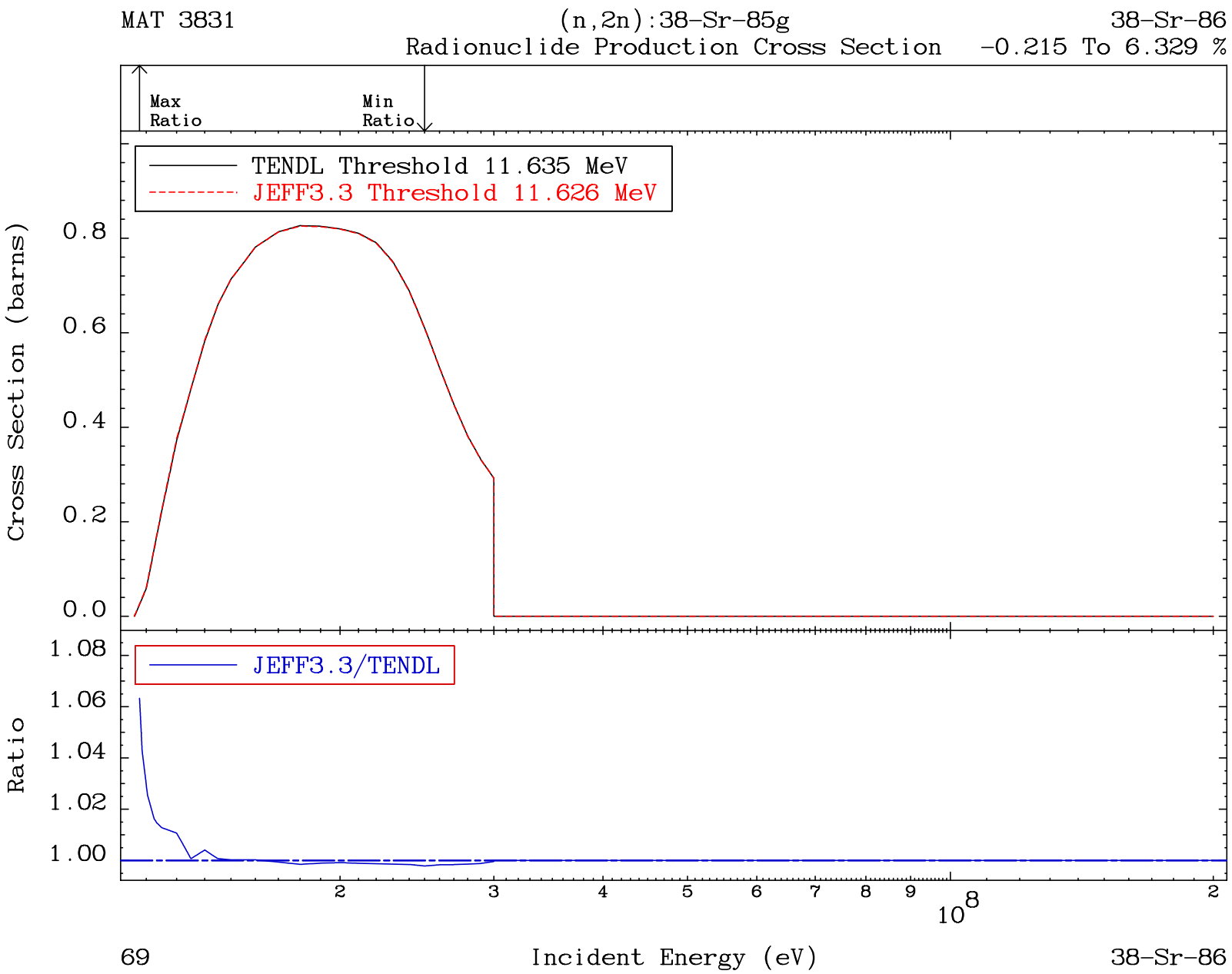

MAT 3831
Total kinematic kerma (high limit)
Cross Section
38-Sr-86
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
38-Sr-86

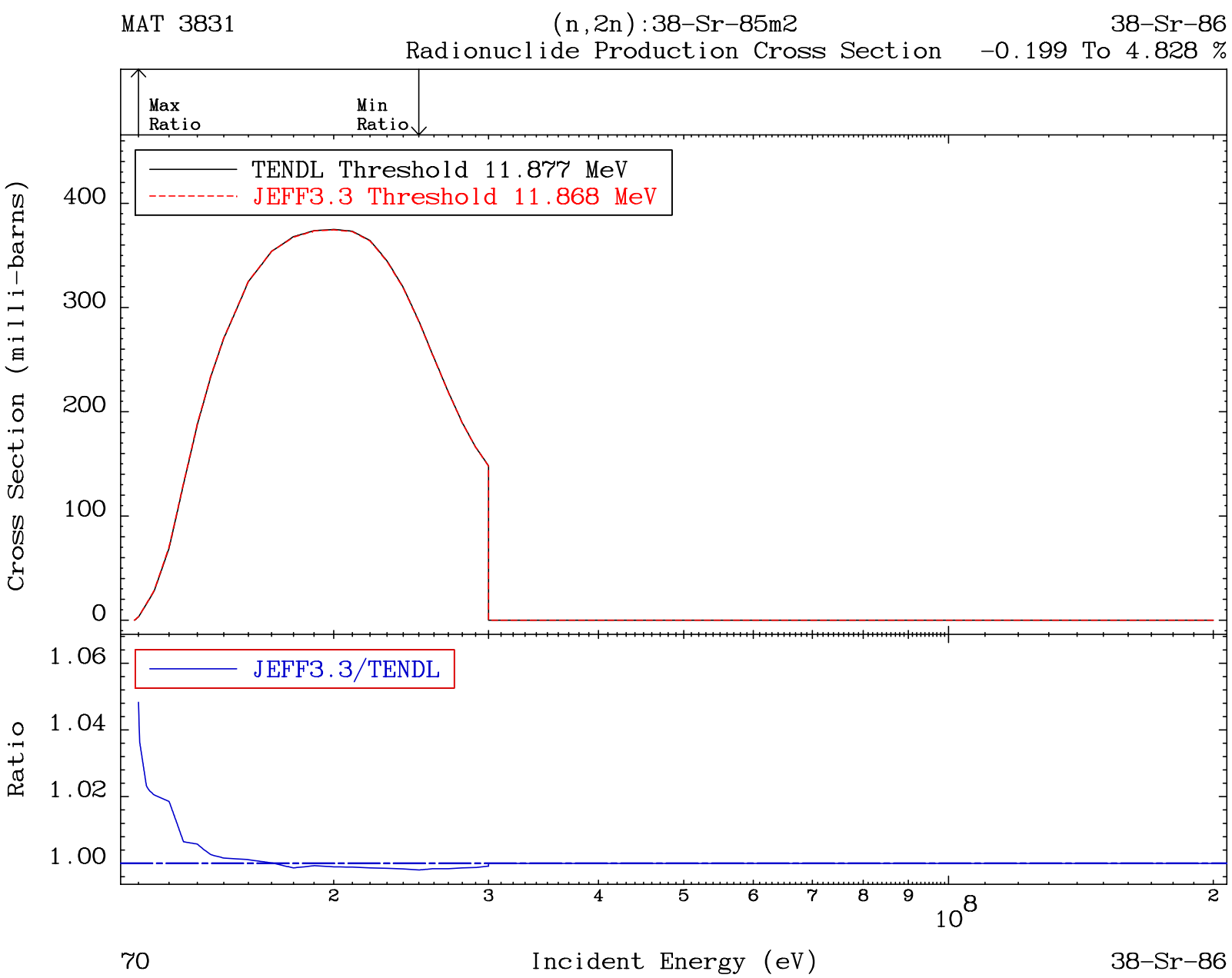

MAT 3831
Dpa total (eV-barns)
Cross Section
38-Sr-86
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
38-Sr-86

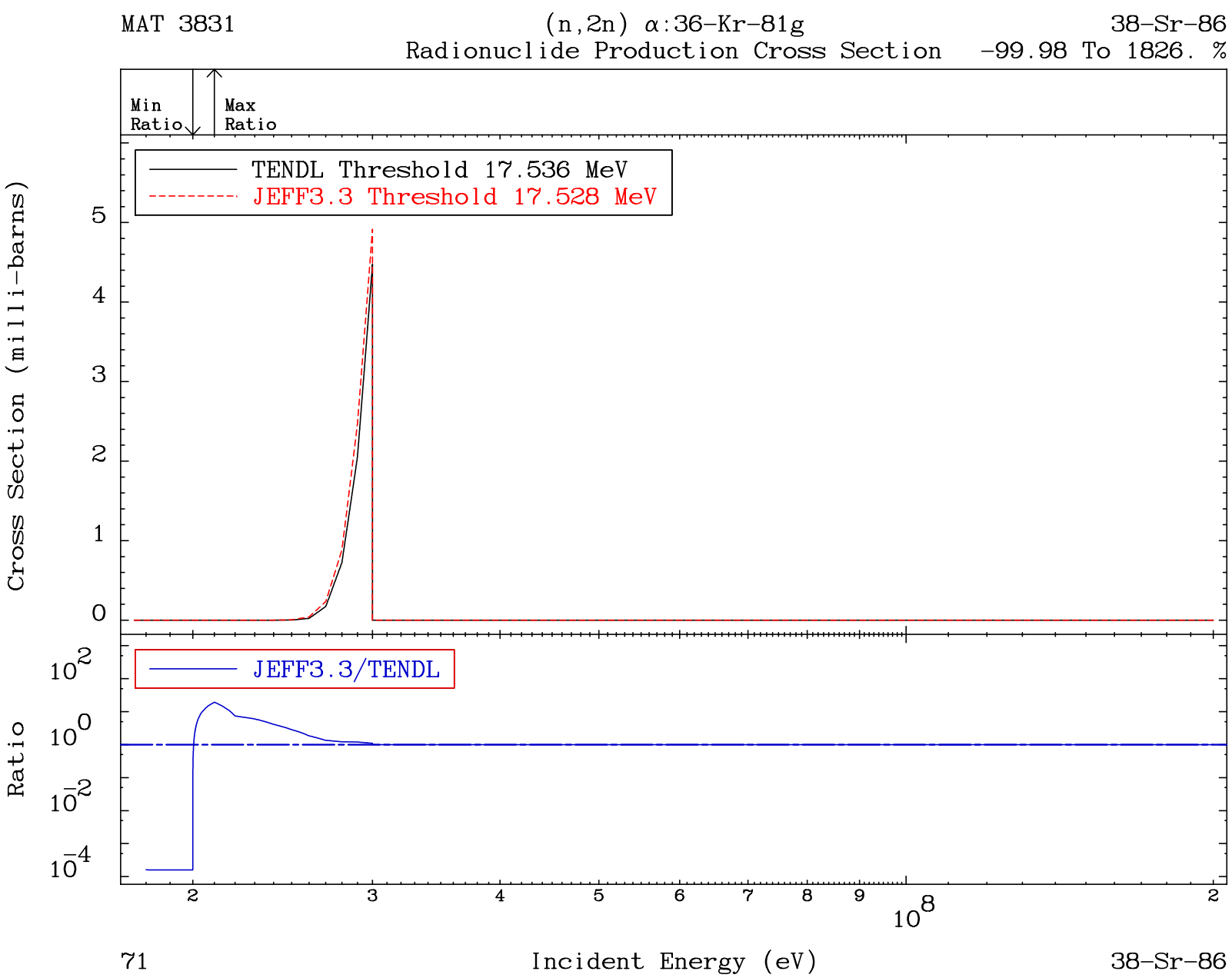

MAT 3831
Dpa elastic (mt2)
Cross Section
38-Sr-86
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 500.47 eV
JEFF3.3 Threshold 500.92 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
38-Sr-86

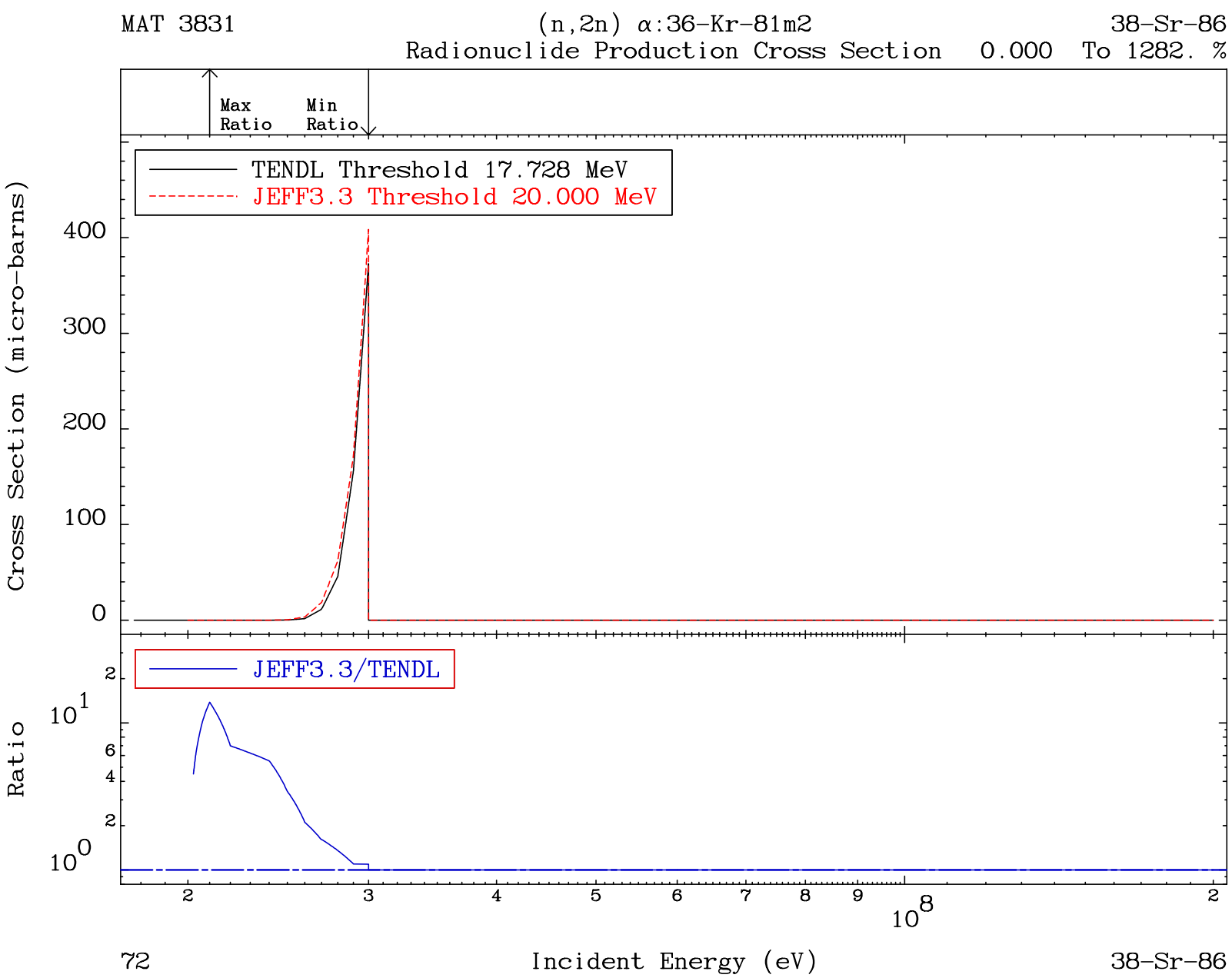

MAT 3831
Dpa inelastic (mt51-91)
Cross Section
38-Sr-86
-0.567 To 0.032 %
Max Ratio
Min Ratio
TENDL Threshold 1.0893 MeV
JEFF3.3 Threshold 1.0893 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
38-Sr-86

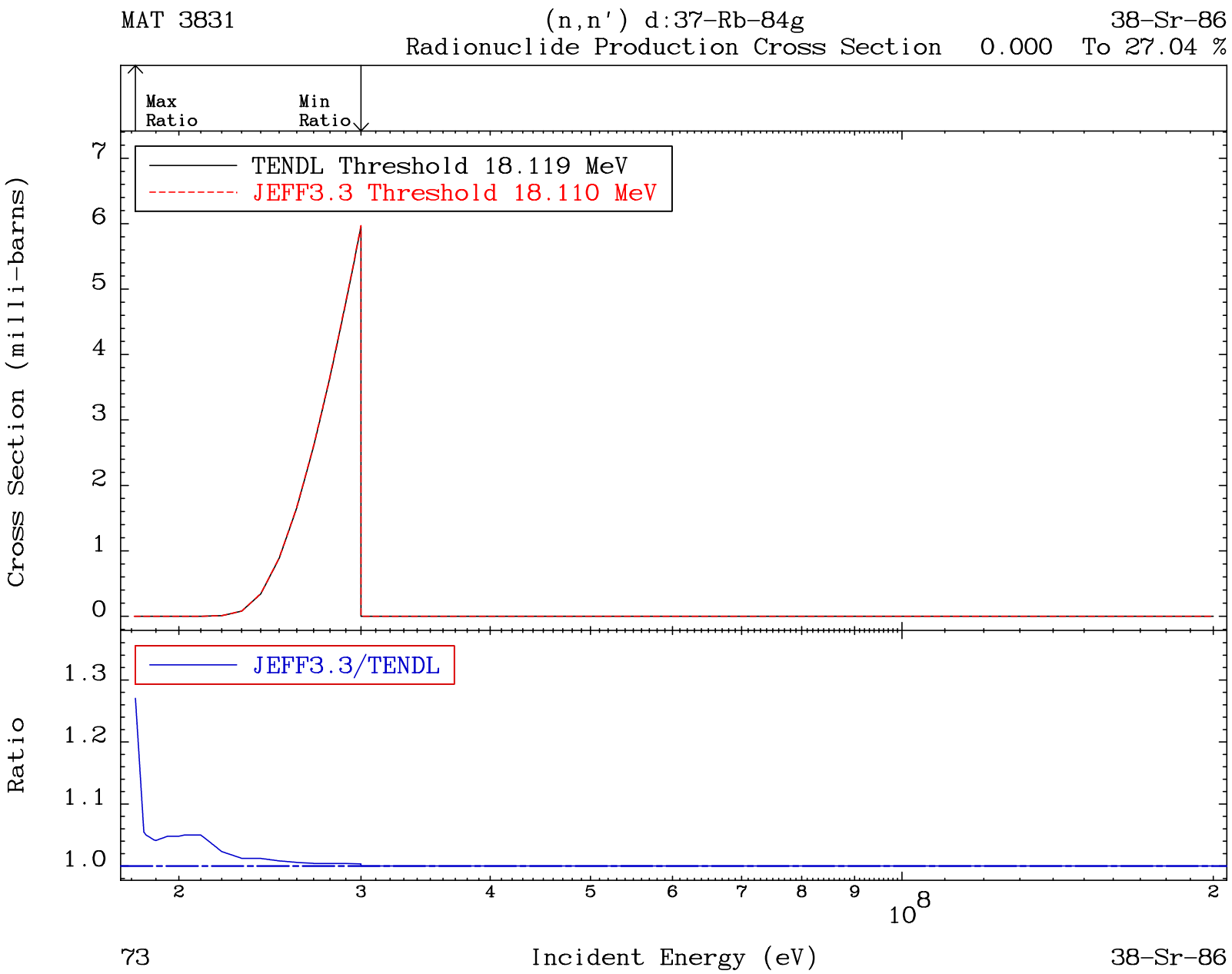

MAT 3831
Dpa disappearance (mt102 -120)
Cross Section
38-Sr-86
-99.48 To 3474. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
38-Sr-86

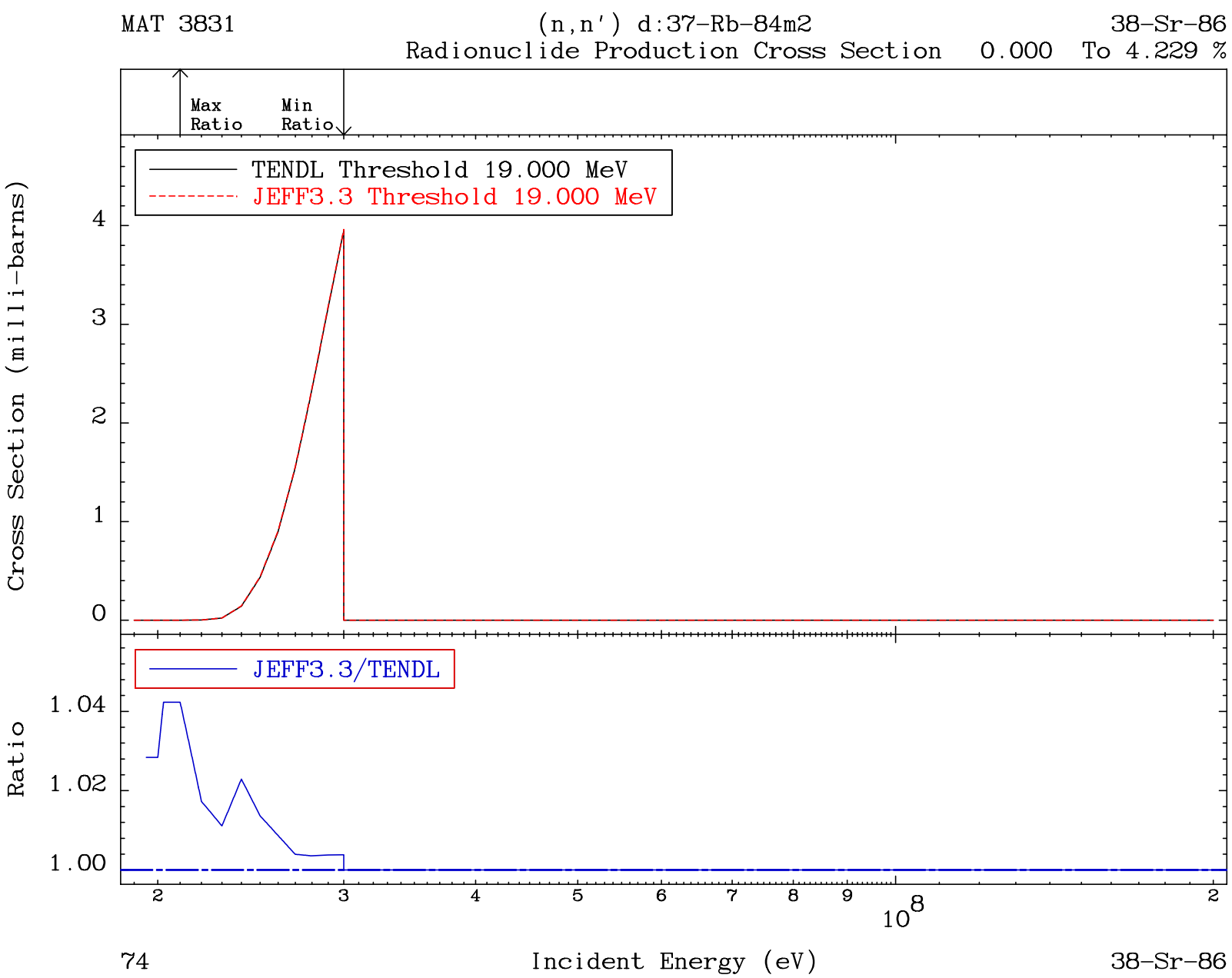

MAT 3831
(n,2n):38-Sr-85g
38-Sr-86
Radionuclide Production Cross Section
-0.215 To 6.329 %
Max Ratio
Min Ratio
TENDL Threshold 11.635 MeV
JEFF3.3 Threshold 11.626 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.08
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
38-Sr-86

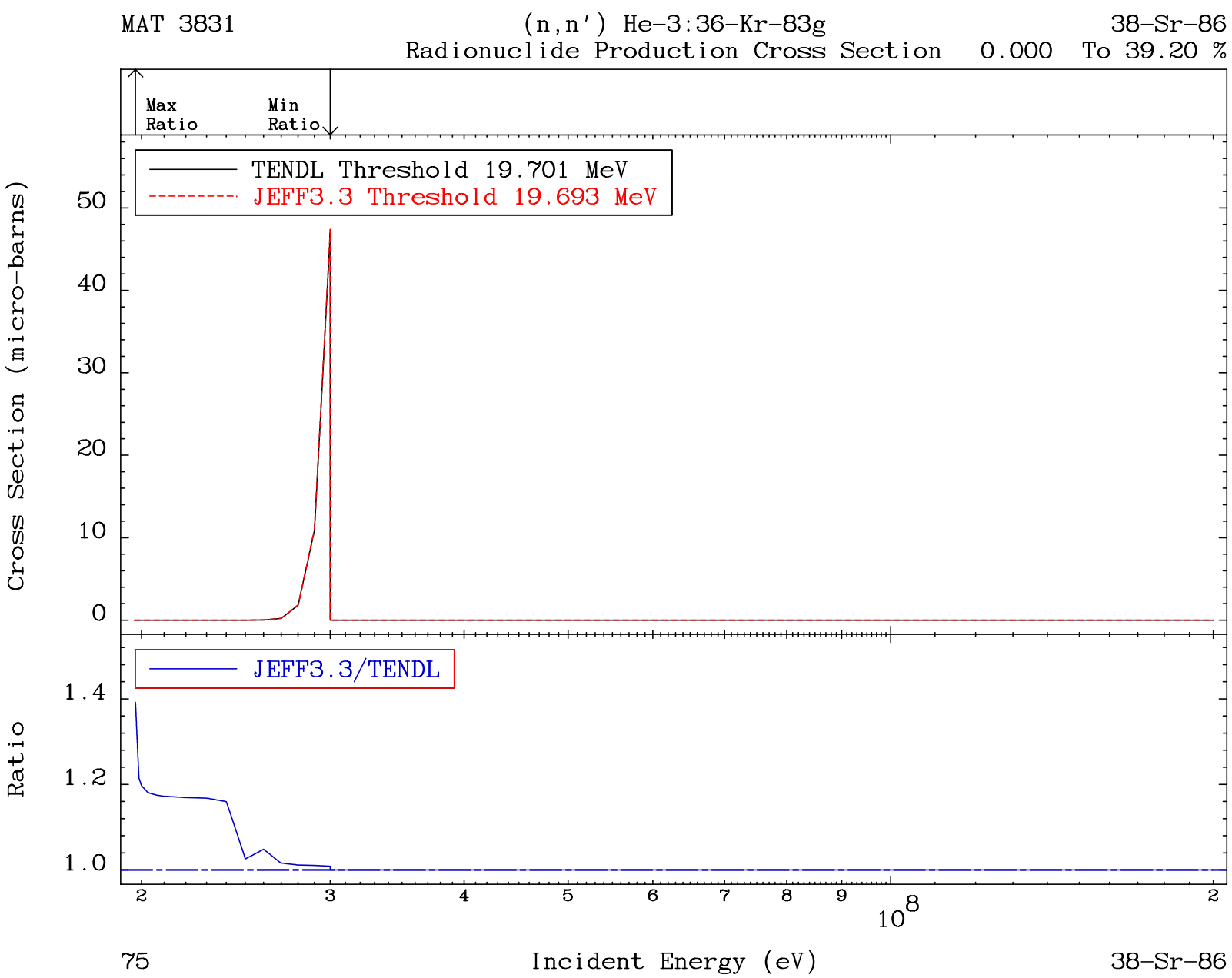

MAT 3831
(n,2n):38-Sr-85m2
38-Sr-86
Radionuclide Production Cross Section -0.199 To 4.828 %
Max Ratio
Min Ratio
TENDL Threshold 11.877 MeV
JEFF3.3 Threshold 11.868 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
10^8
2
70
Incident Energy (eV)
38-Sr-86

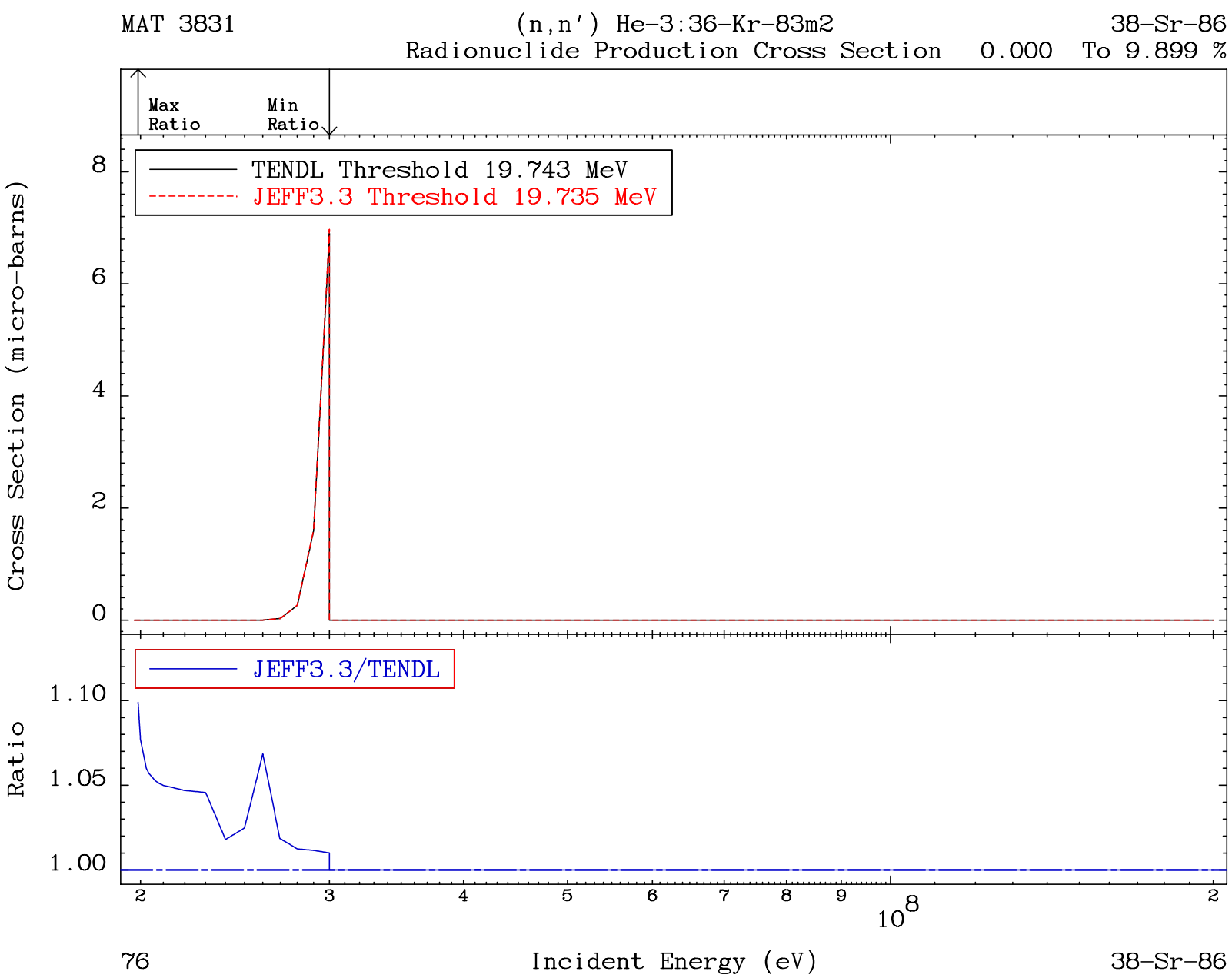

MAT 3831
(n,2n) α:36-Kr-81g
38-Sr-86
Radionuclide Production Cross Section
-99.98 To 1826. %
Min Ratio
Max Ratio
TENDL Threshold 17.536 MeV
JEFF3.3 Threshold 17.528 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
71
Incident Energy (eV)
38-Sr-86

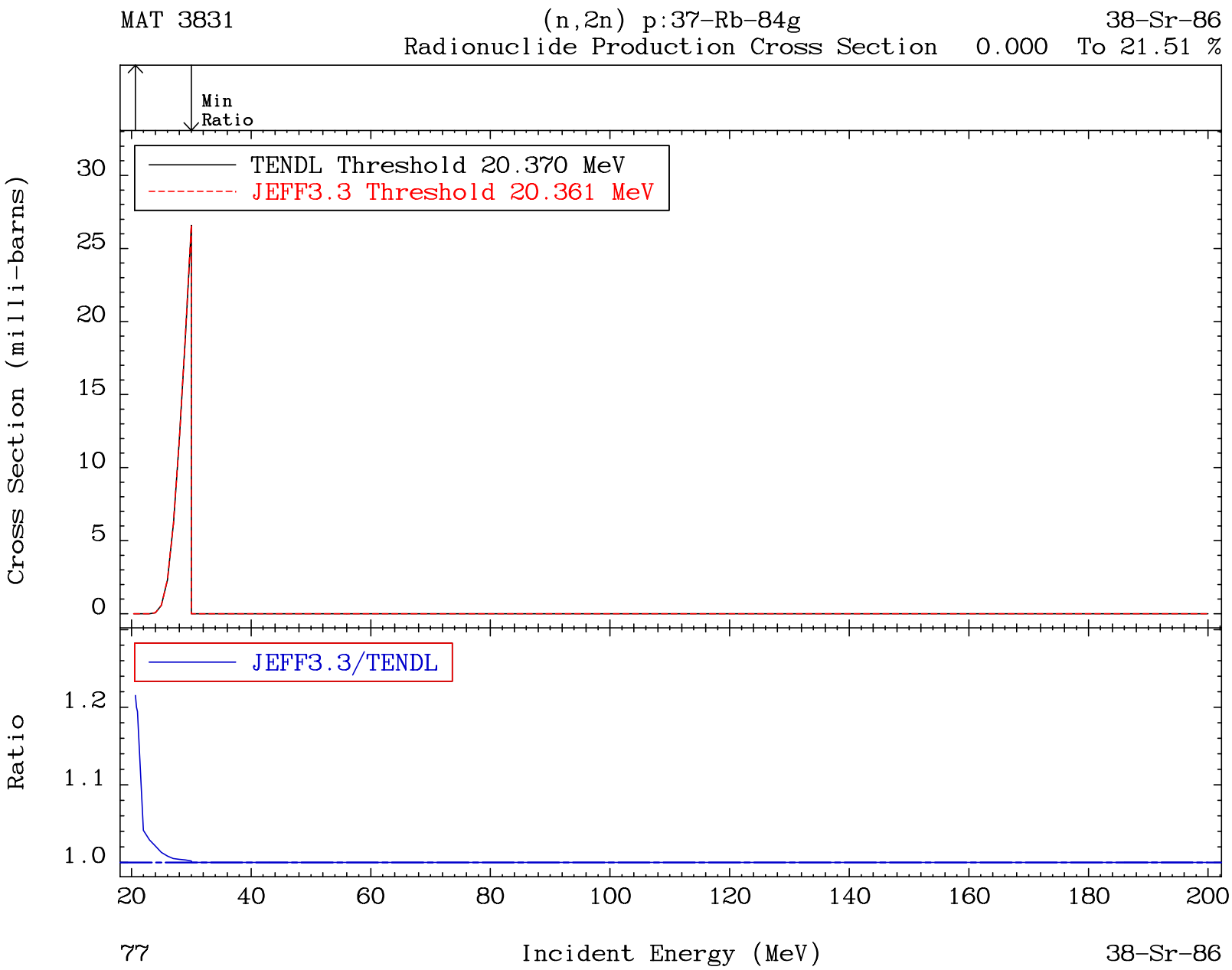

MAT 3831
(n,2n) α:36-Kr-81m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 1282. %
Max Ratio
Min Ratio
TENDL Threshold 17.728 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section (micro-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
38-Sr-86

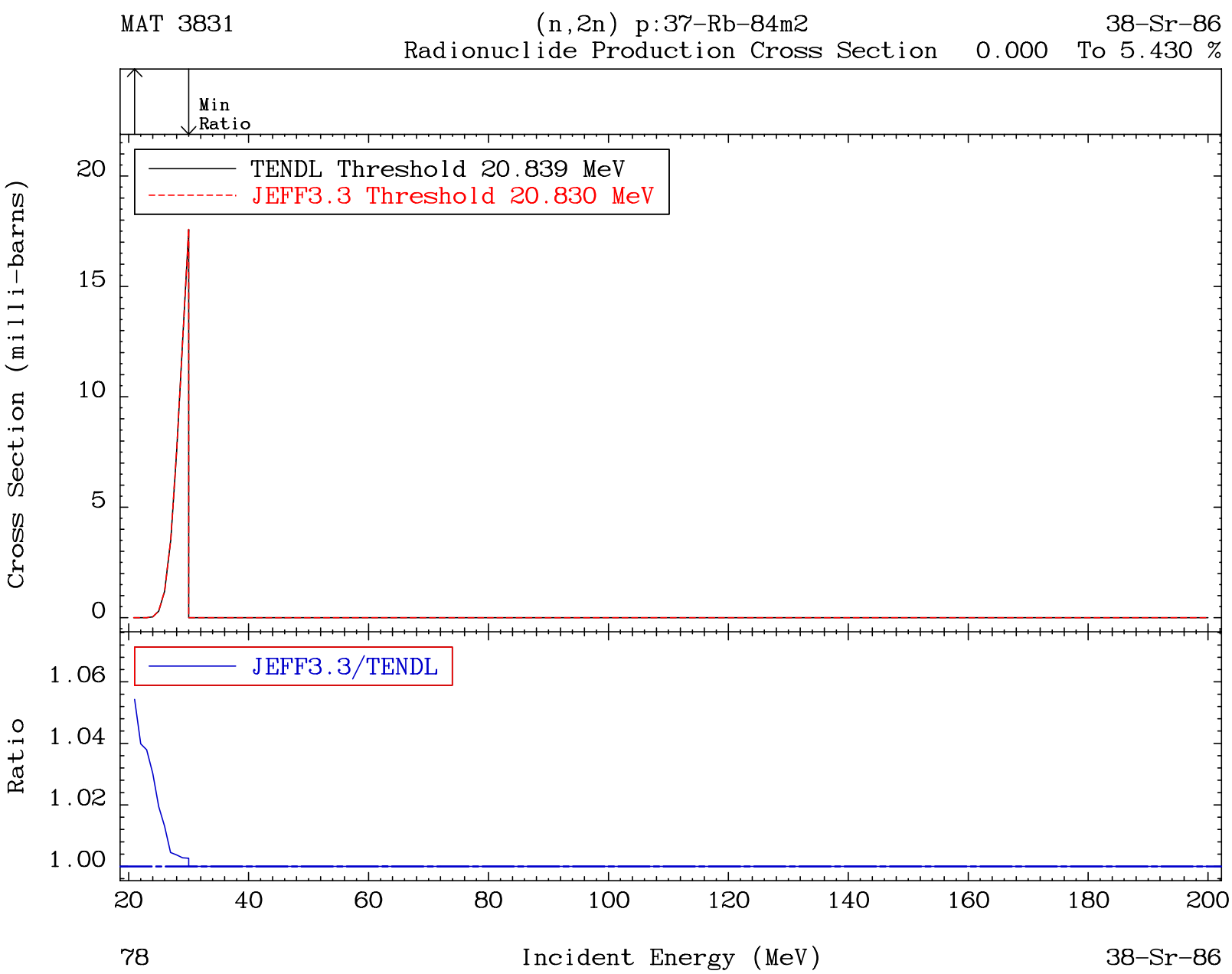

MAT 3831
(n,n') d:37-Rb-84g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 27.04 %
Max Ratio
Min Ratio
TENDL Threshold 18.119 MeV
JEFF3.3 Threshold 18.110 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
1.0
1.1
1.2
1.3
2
3
4
5
6
7
8
9
10^8
2
73
Incident Energy (eV)
38-Sr-86

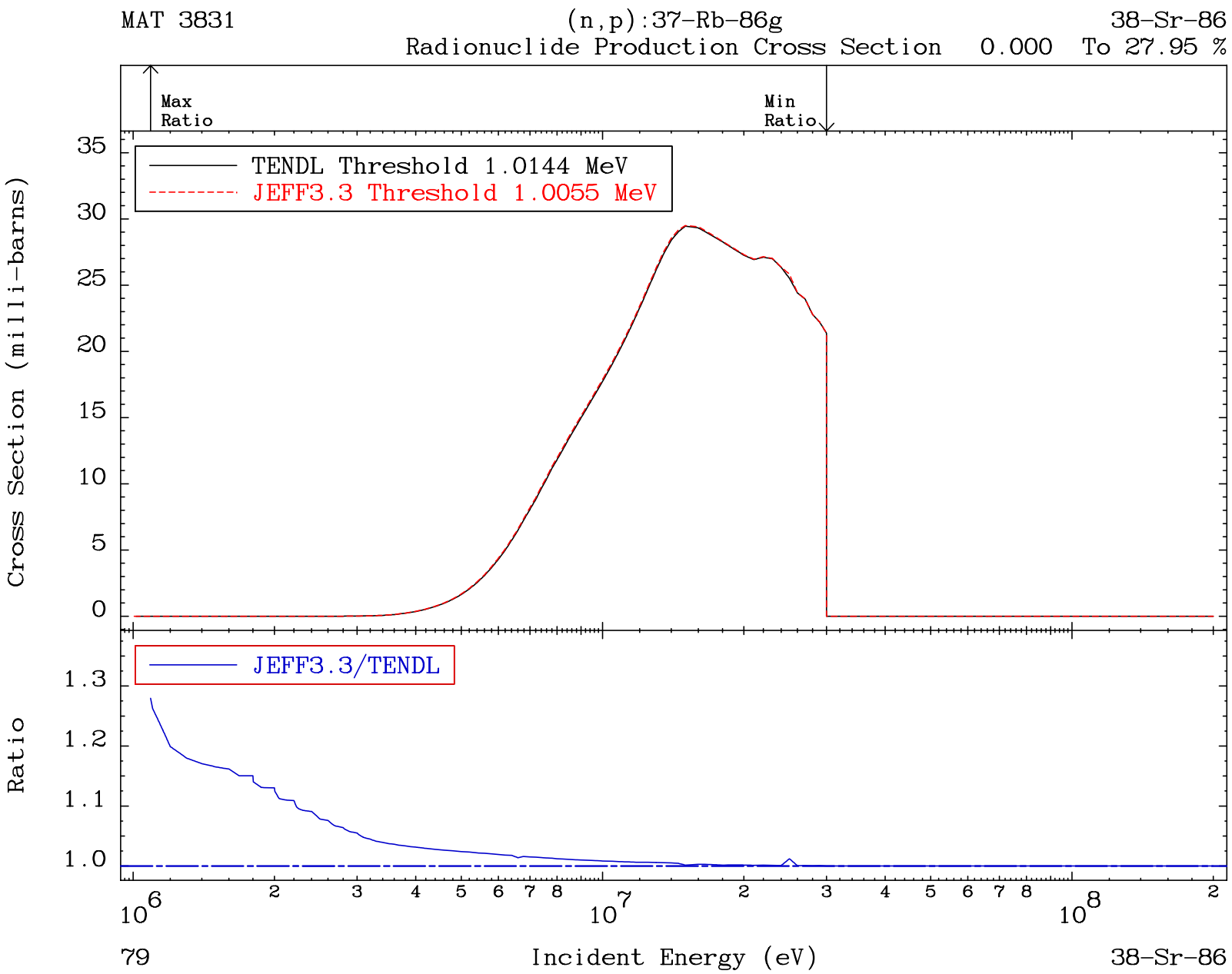

MAT 3831
(n,n') d:37-Rb-84m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 4.229 %
Max Ratio
Min Ratio
TENDL Threshold 19.000 MeV
JEFF3.3 Threshold 19.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
38-Sr-86

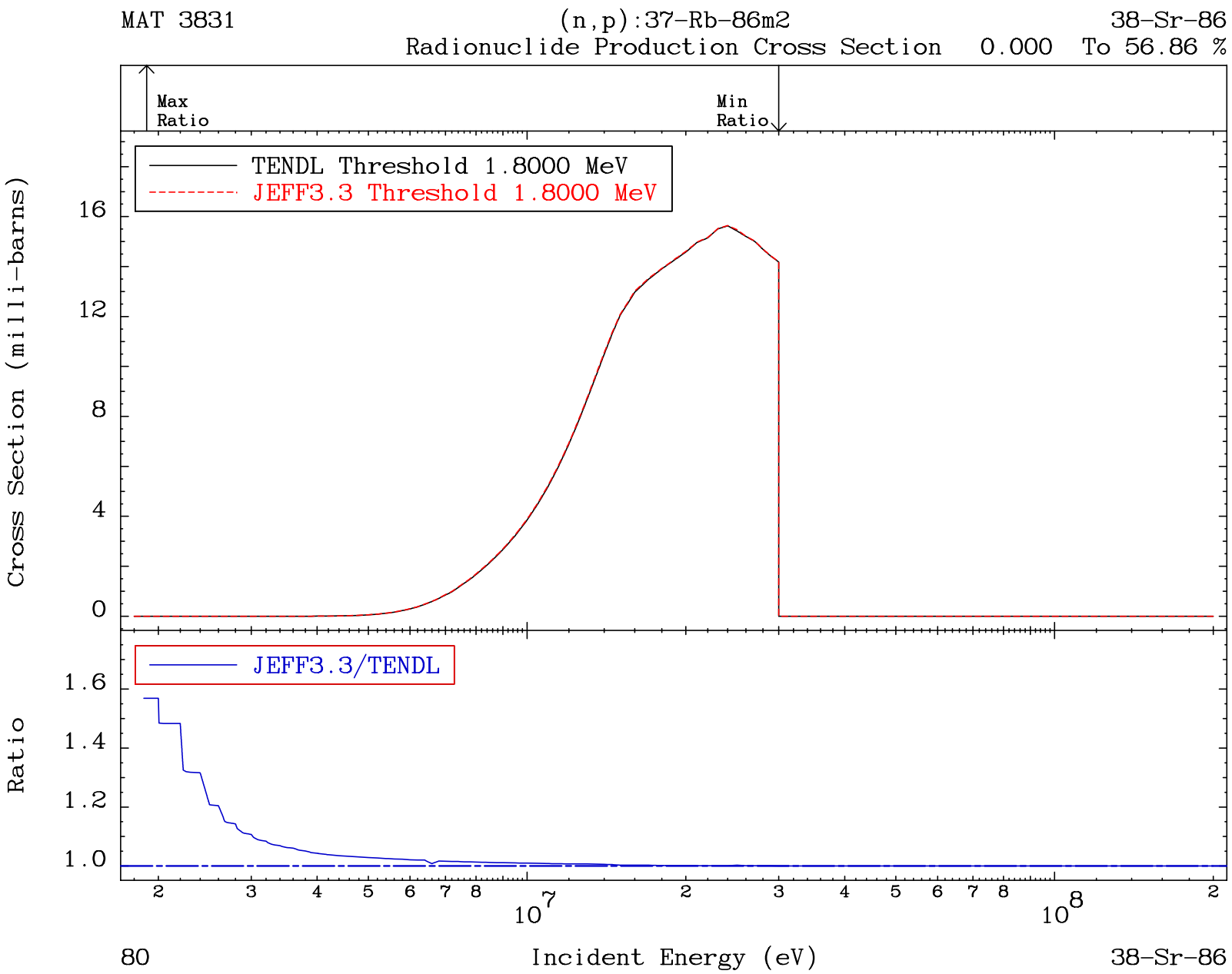

MAT 3831
(n,n') He-3:36-Kr-83g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 39.20 %
Max Ratio
Min Ratio
TENDL Threshold 19.701 MeV
JEFF3.3 Threshold 19.693 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
38-Sr-86

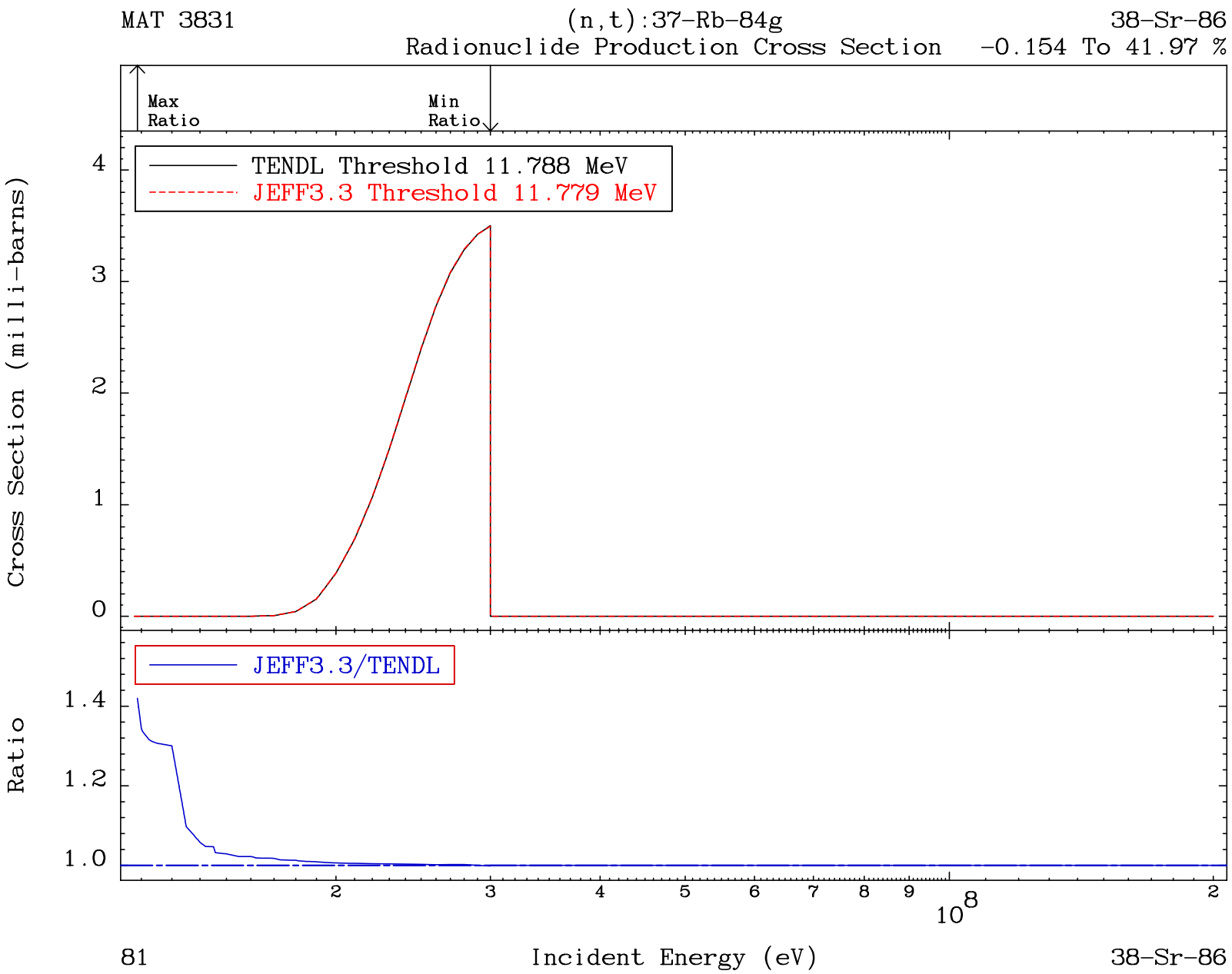

MAT 3831
(n,n') He-3:36-Kr-83m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 9.899 %
Max Ratio
Min Ratio
TENDL Threshold 19.743 MeV
JEFF3.3 Threshold 19.735 MeV
Cross Section (micro-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.00
1.05
1.10
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
38-Sr-86

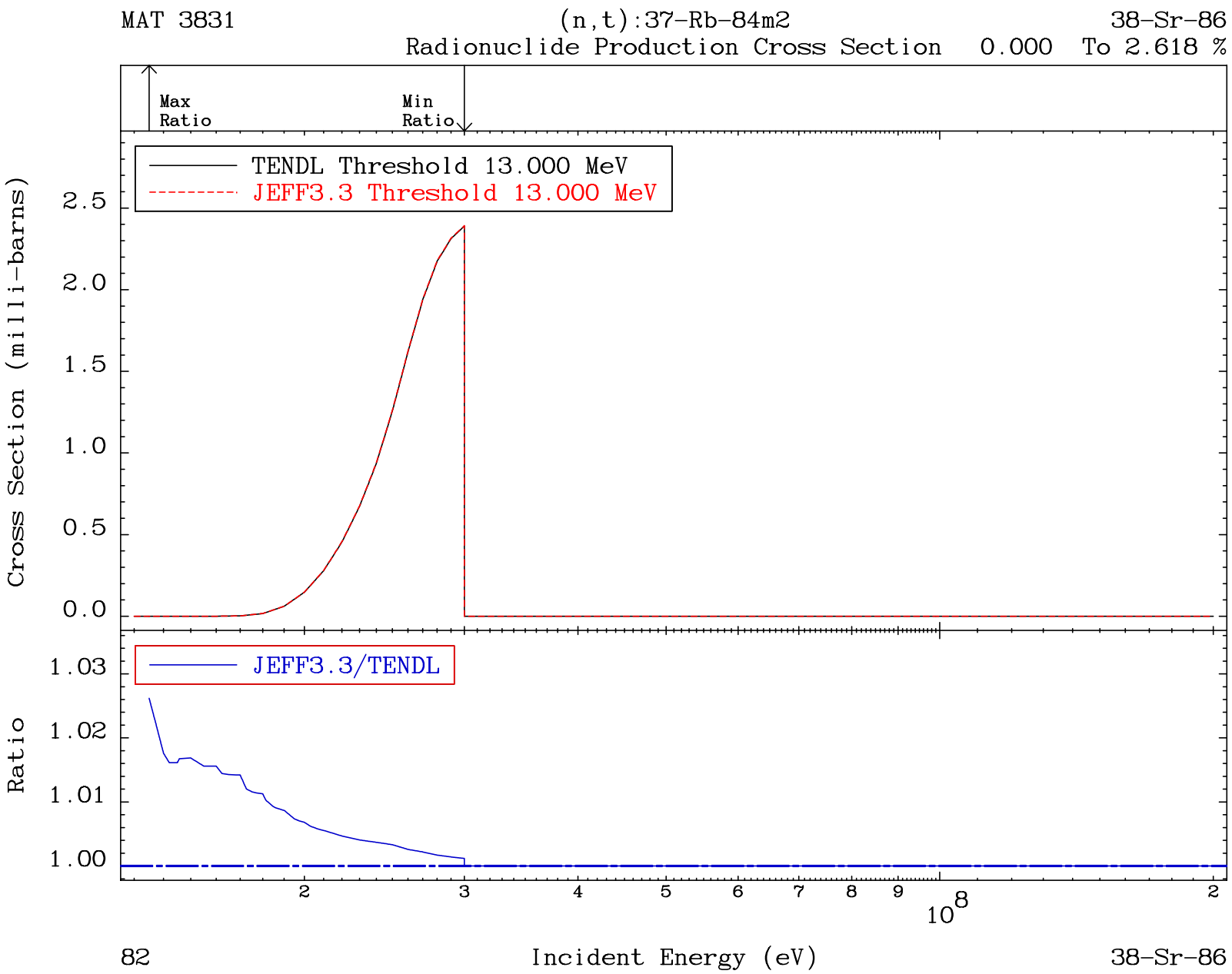

MAT 3831
(n,2n) p:37-Rb-84g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 21.51 %
Min
Ratio
TENDL Threshold 20.370 MeV
JEFF3.3 Threshold 20.361 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
20
40
60
80
100
120
140
160
180
200
77
Incident Energy (MeV)
38-Sr-86

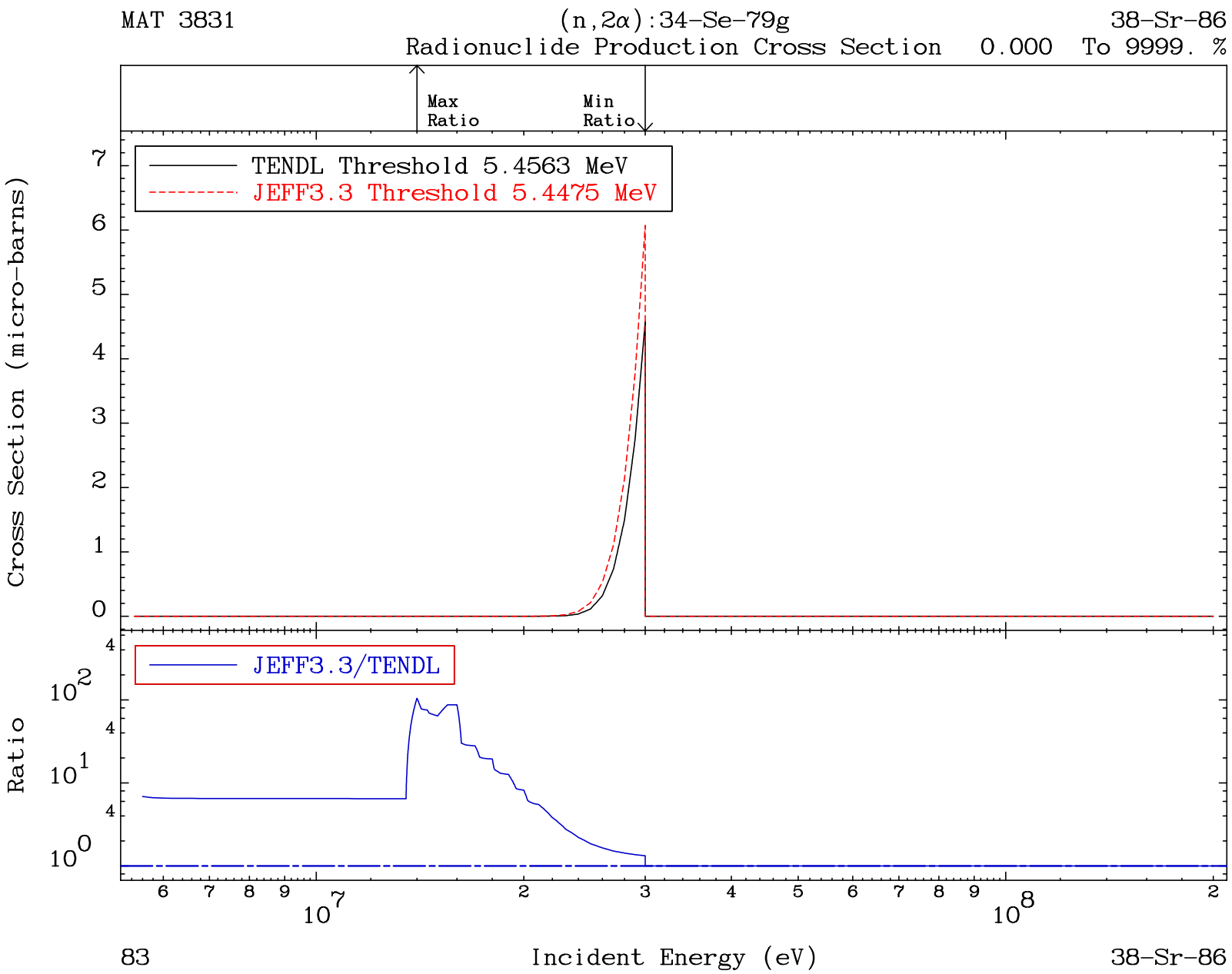

MAT 3831
(n,2n) p:37-Rb-84m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 5.430 %
Min Ratio
TENDL Threshold 20.839 MeV
JEFF3.3 Threshold 20.830 MeV
Cross Section (milli-barns)
0
5
10
15
20
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
1.06
20
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
38-Sr-86

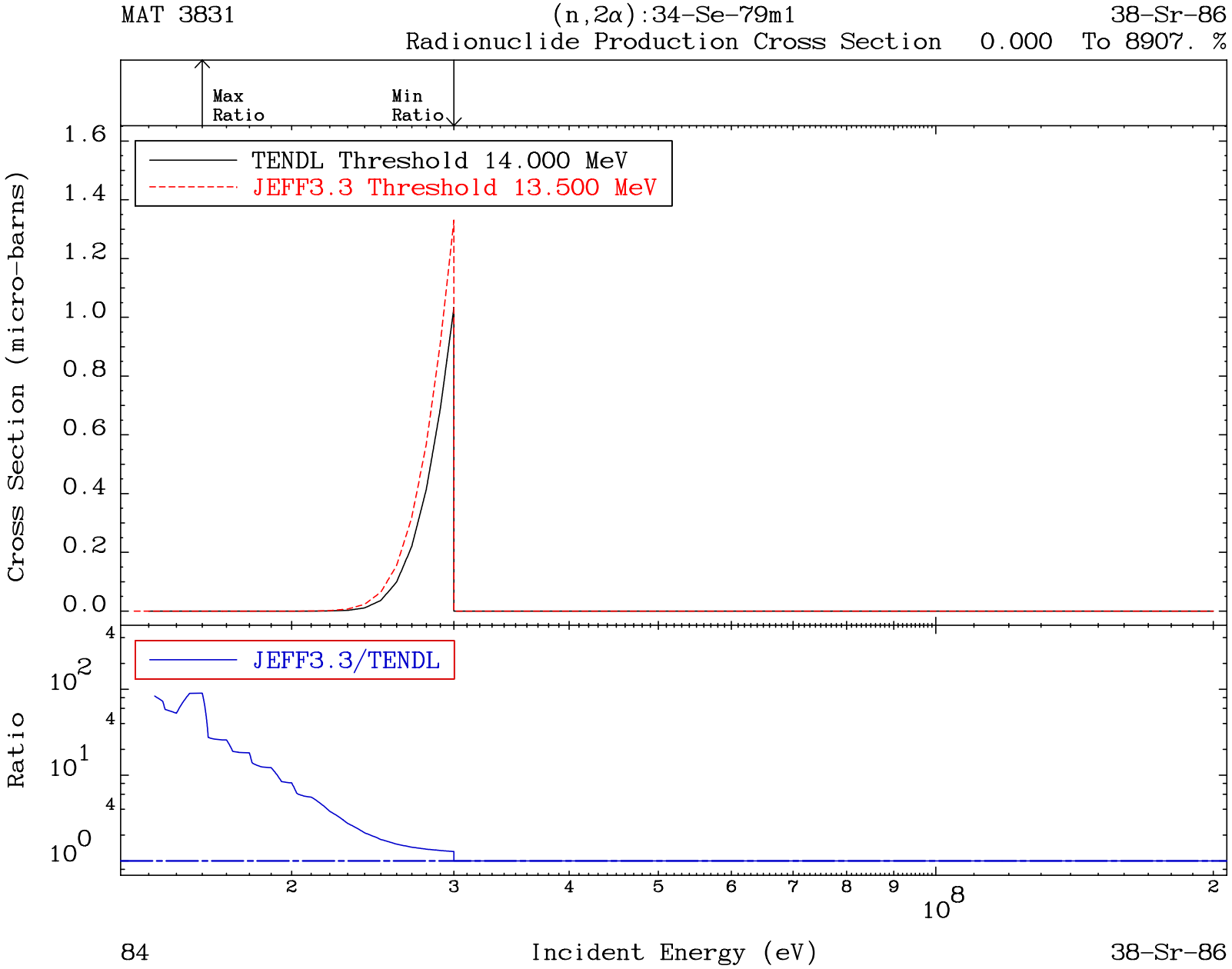

MAT 3831
(n,p):37-Rb-86g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 27.95 %
Max Ratio
Min Ratio
TENDL Threshold 1.0144 MeV
JEFF3.3 Threshold 1.0055 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
79
Incident Energy (eV)
38-Sr-86

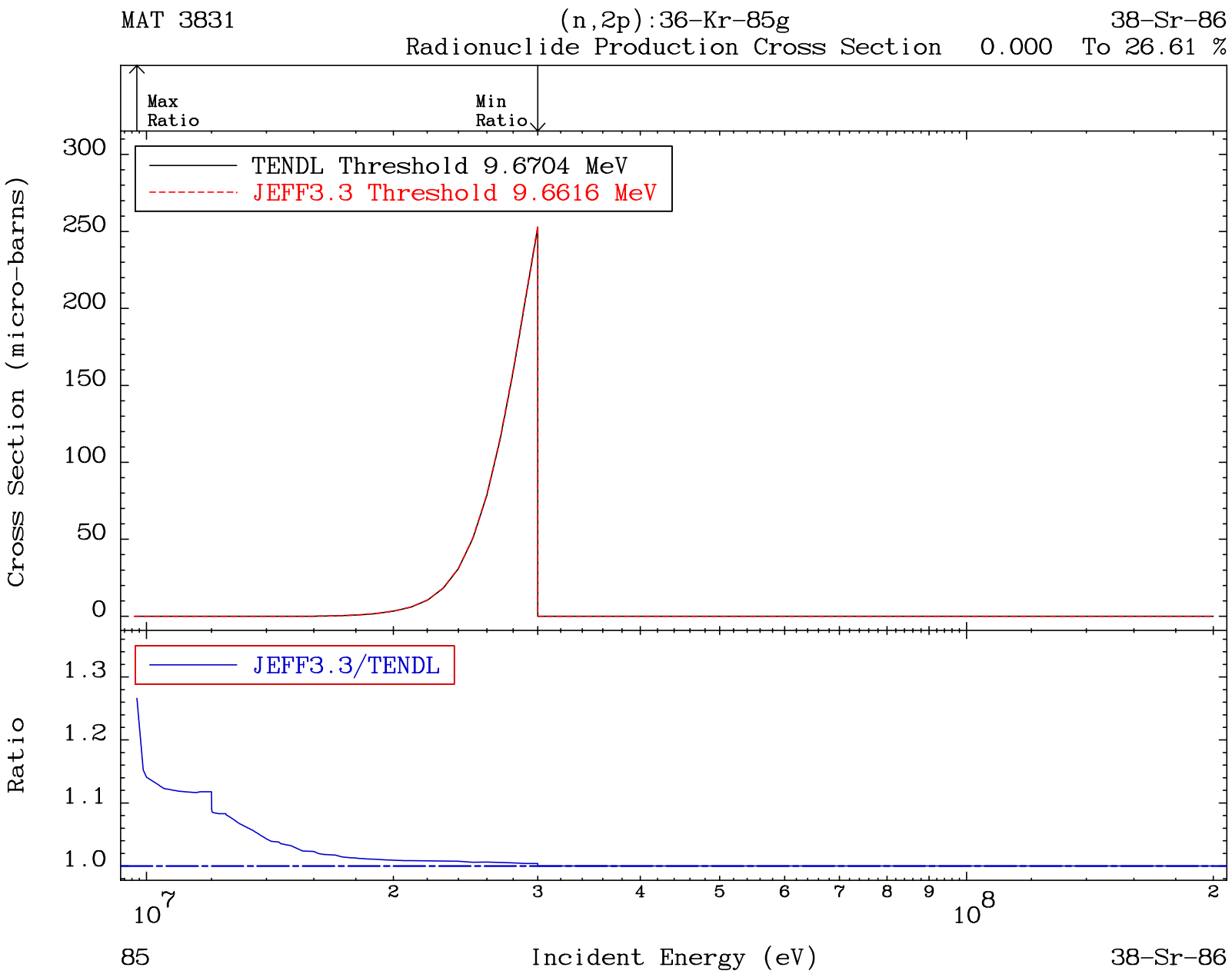

MAT 3831
(n,p):37-Rb-86m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 56.86 %
Max Ratio
Min Ratio
TENDL Threshold 1.8000 MeV
JEFF3.3 Threshold 1.8000 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.6
1.4
1.2
1.0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
80
Incident Energy (eV)
38-Sr-86

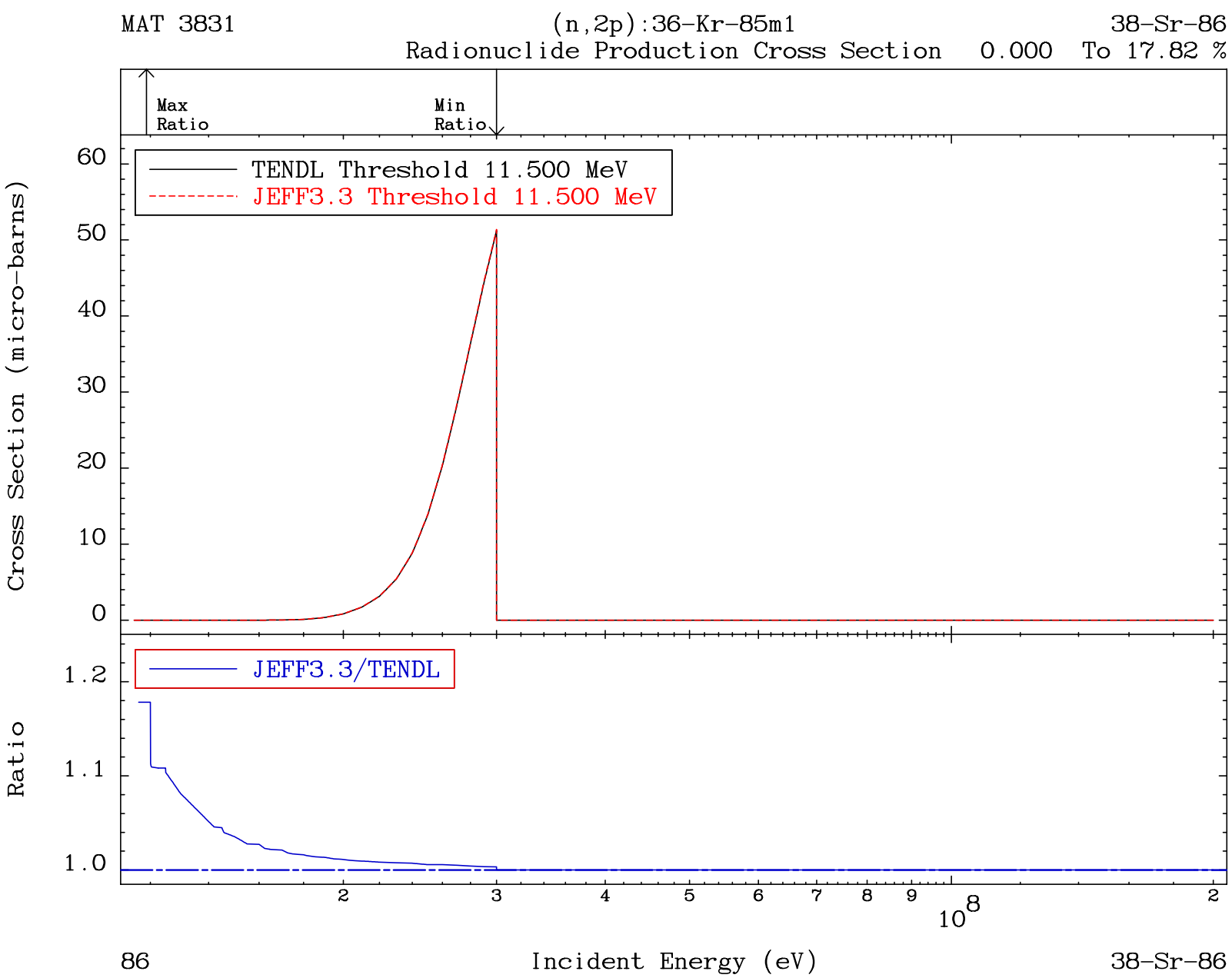

MAT 3831
(n,t):37-Rb-84g
38-Sr-86
Radionuclide Production Cross Section
-0.154 To 41.97 %
Max Ratio
Min Ratio
TENDL Threshold 11.788 MeV
JEFF3.3 Threshold 11.779 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
81
38-Sr-86

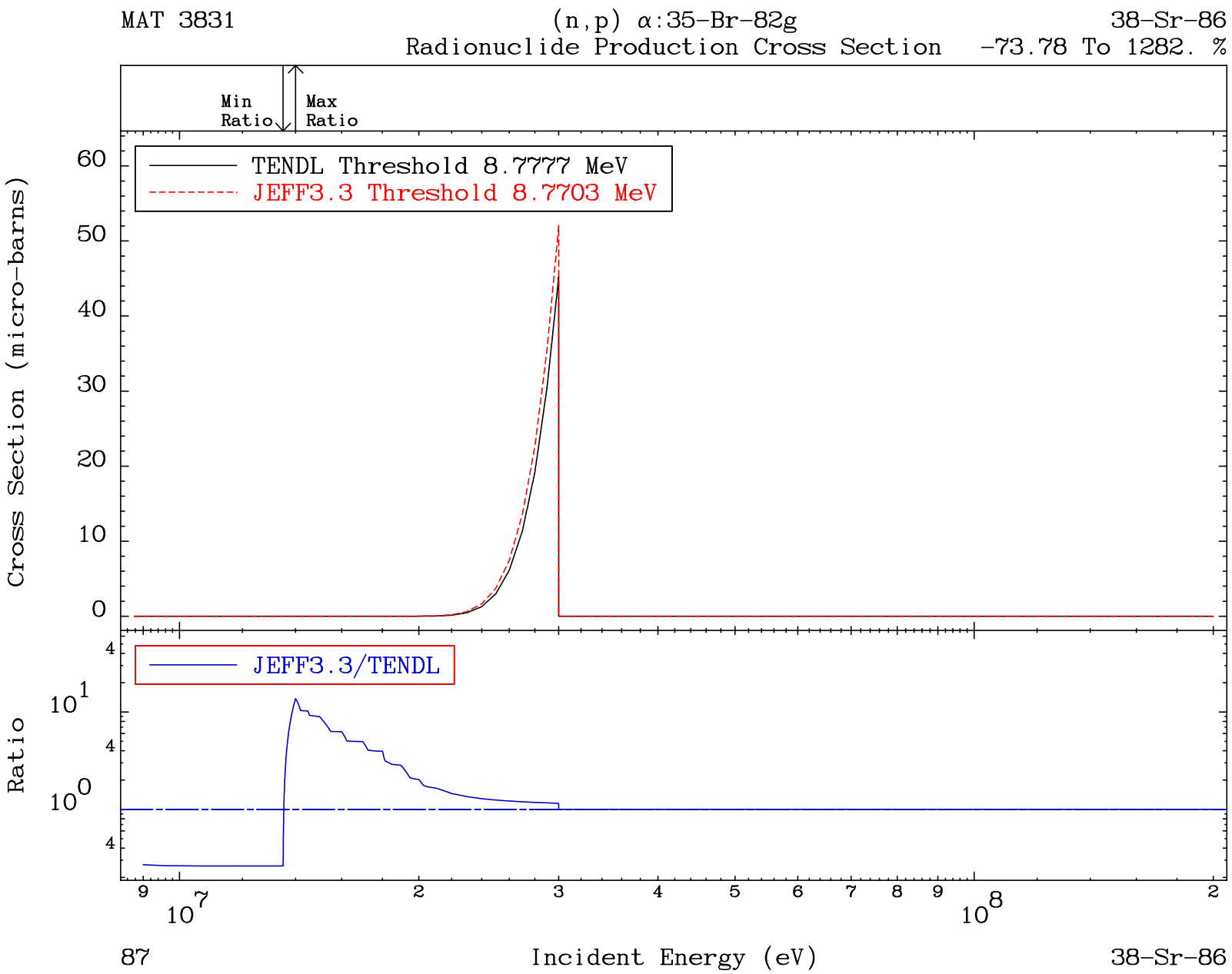

MAT 3831
(n,t):37-Rb-84m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 2.618 %
Max Ratio
Min Ratio
TENDL Threshold 13.000 MeV
JEFF3.3 Threshold 13.000 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
38-Sr-86

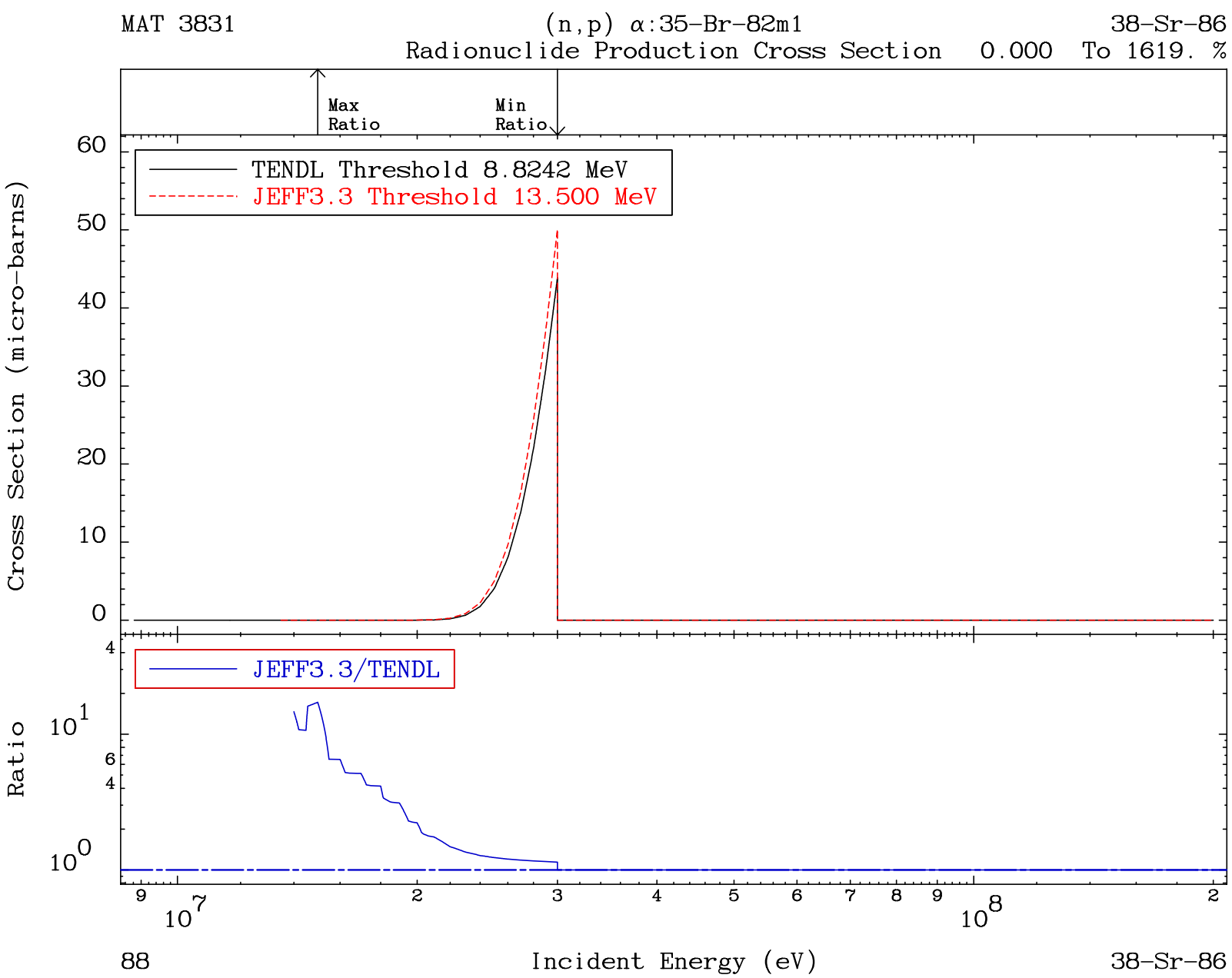

MAT 3831
(n,2α):34-Se-79g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.4563 MeV
JEFF3.3 Threshold 5.4475 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
83
38-Sr-86

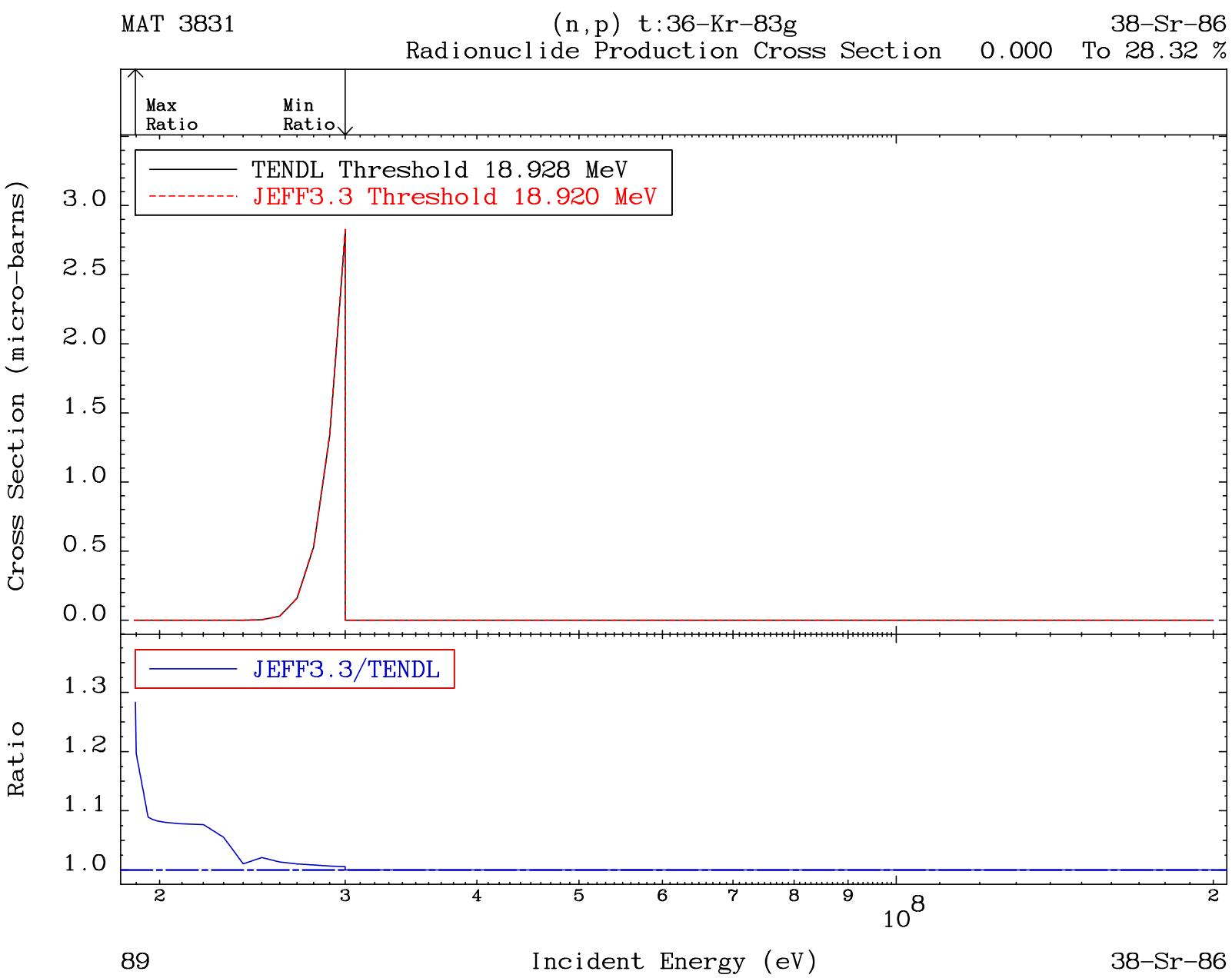

MAT 3831
(n,2α):34-Se-79m1
38-Sr-86
Radionuclide Production Cross Section 0.000 To 8907. %
Max Ratio
Min Ratio
TENDL Threshold 14.000 MeV
JEFF3.3 Threshold 13.500 MeV
Cross Section (micro-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
38-Sr-86

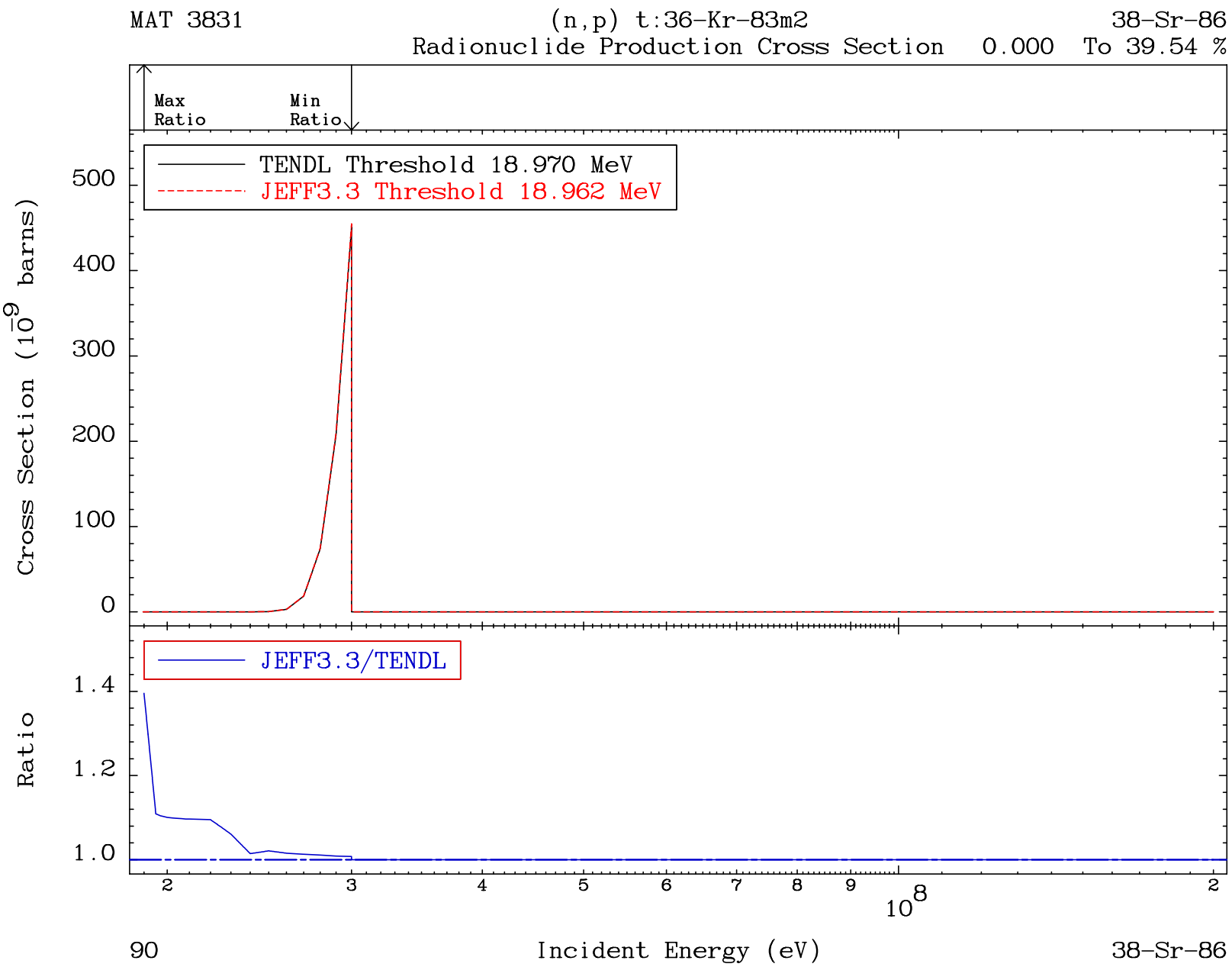

MAT 3831
(n,2p):36-Kr-85g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 26.61 %
Max Ratio
Min Ratio
TENDL Threshold 9.6704 MeV
JEFF3.3 Threshold 9.6616 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
38-Sr-86


MAT 3831
(n,2p):36-Kr-85m1
38-Sr-86
Radionuclide Production Cross Section 0.000 To 17.82 %
Max Ratio
Min Ratio
TENDL Threshold 11.500 MeV
JEFF3.3 Threshold 11.500 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
38-Sr-86


MAT 3831
(n,p) α:35-Br-82g
38-Sr-86
Radionuclide Production Cross Section -73.78 To 1282. %
Min Ratio
Max Ratio
TENDL Threshold 8.7777 MeV
JEFF3.3 Threshold 8.7703 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^1
10^0
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
38-Sr-86


MAT 3831
(n,p) α:35-Br-82m1
38-Sr-86
Radionuclide Production Cross Section 0.000 To 1619. %
Max Ratio
Min Ratio
TENDL Threshold 8.8242 MeV
JEFF3.3 Threshold 13.500 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
88
38-Sr-86


MAT 3831
(n,p) t:36-Kr-83g
38-Sr-86
Radionuclide Production Cross Section 0.000 To 28.32 %
Max Ratio
Min Ratio
TENDL Threshold 18.928 MeV
JEFF3.3 Threshold 18.920 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
38-Sr-86


MAT 3831
(n,p) t:36-Kr-83m2
38-Sr-86
Radionuclide Production Cross Section 0.000 To 39.54 %
Max Ratio
Min Ratio
TENDL Threshold 18.970 MeV
JEFF3.3 Threshold 18.962 MeV
Cross Section (10^{-9} barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
38-Sr-86