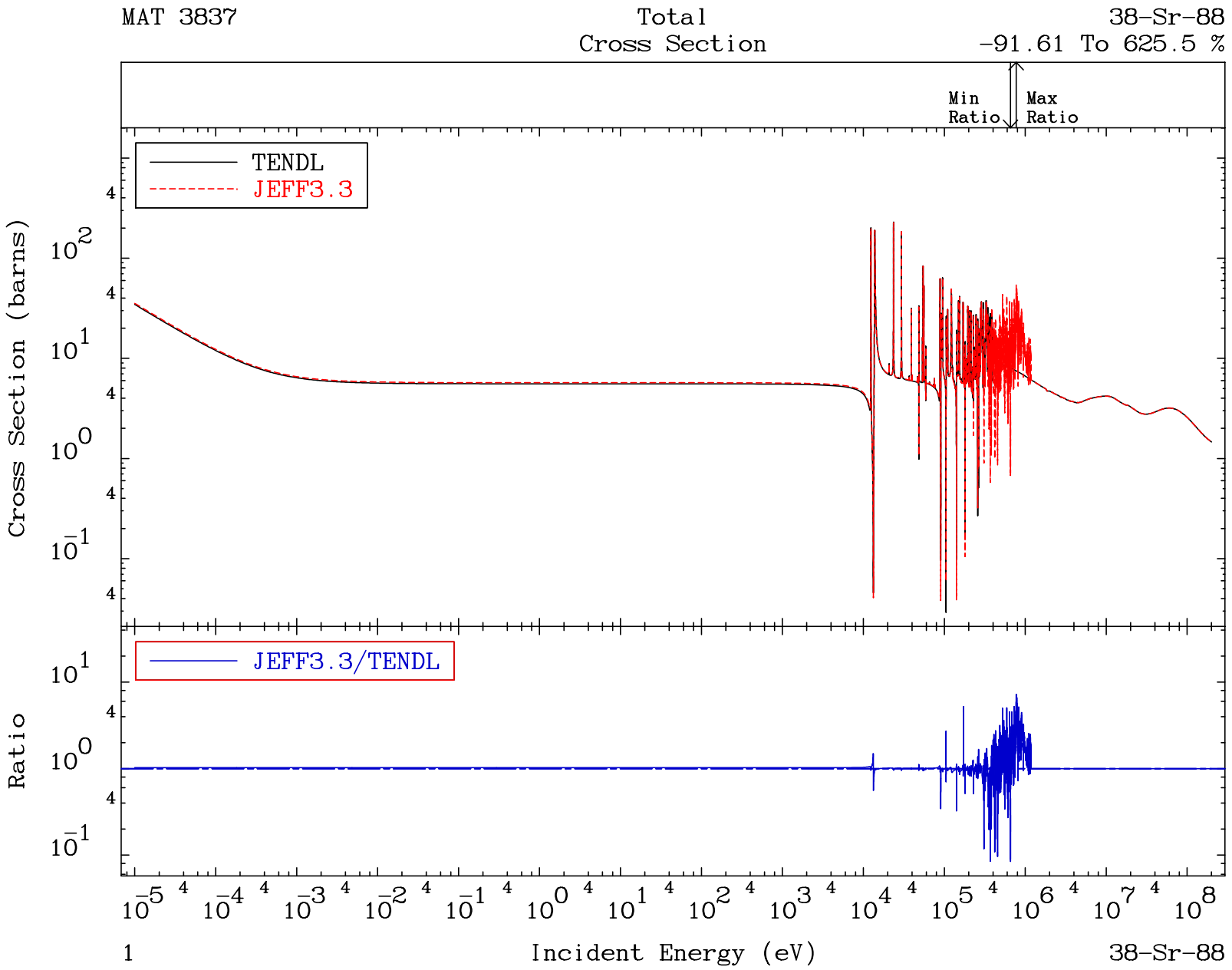
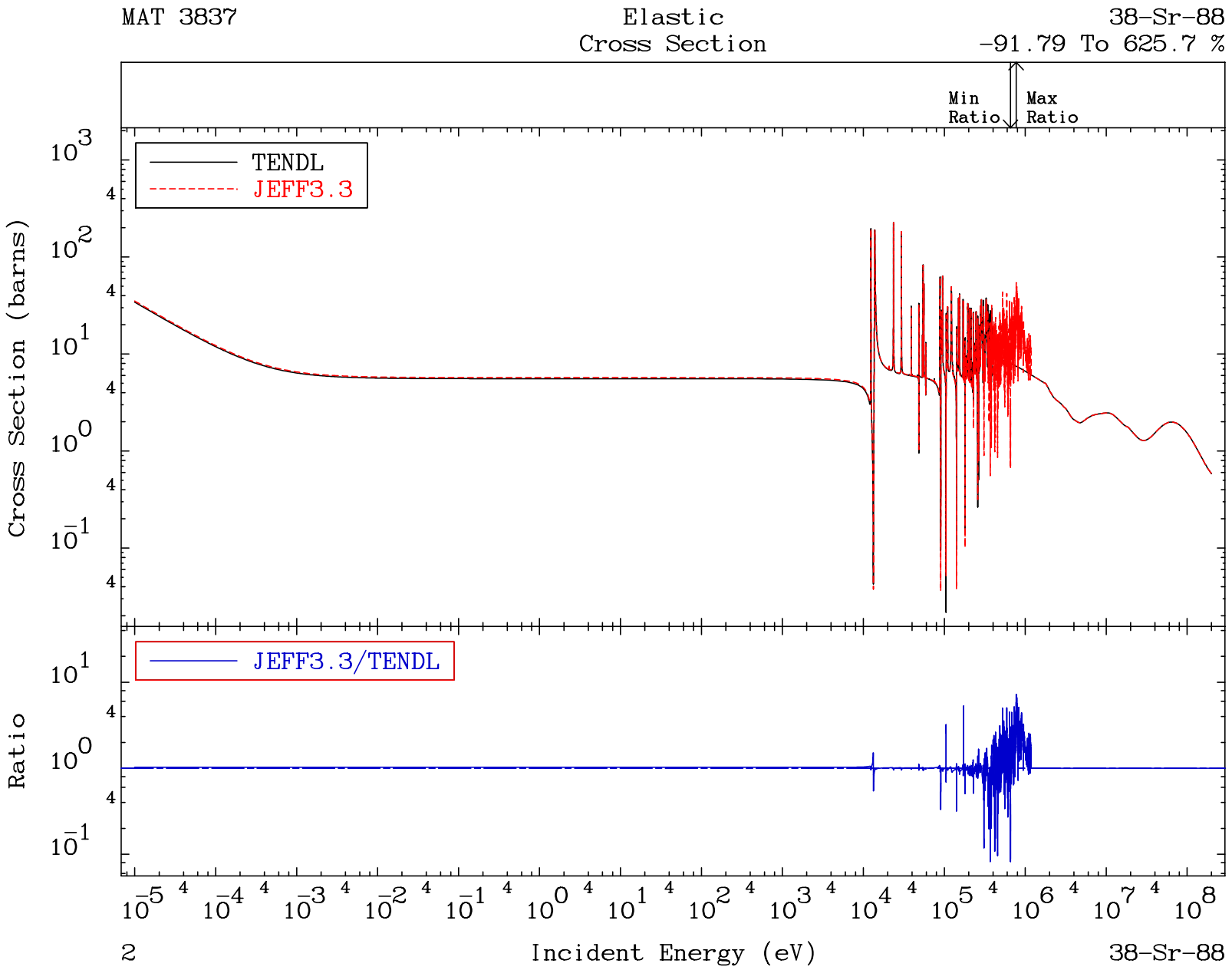
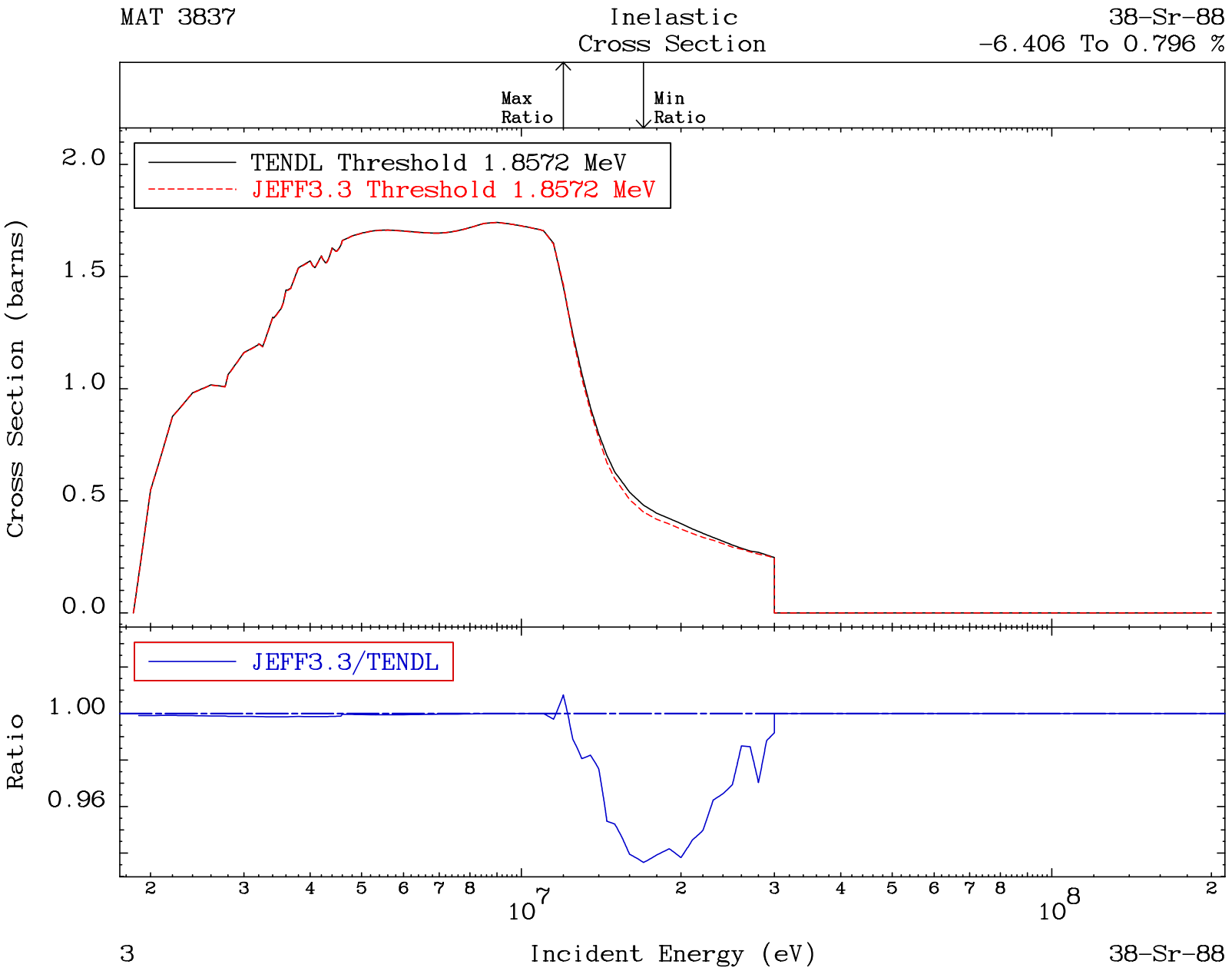
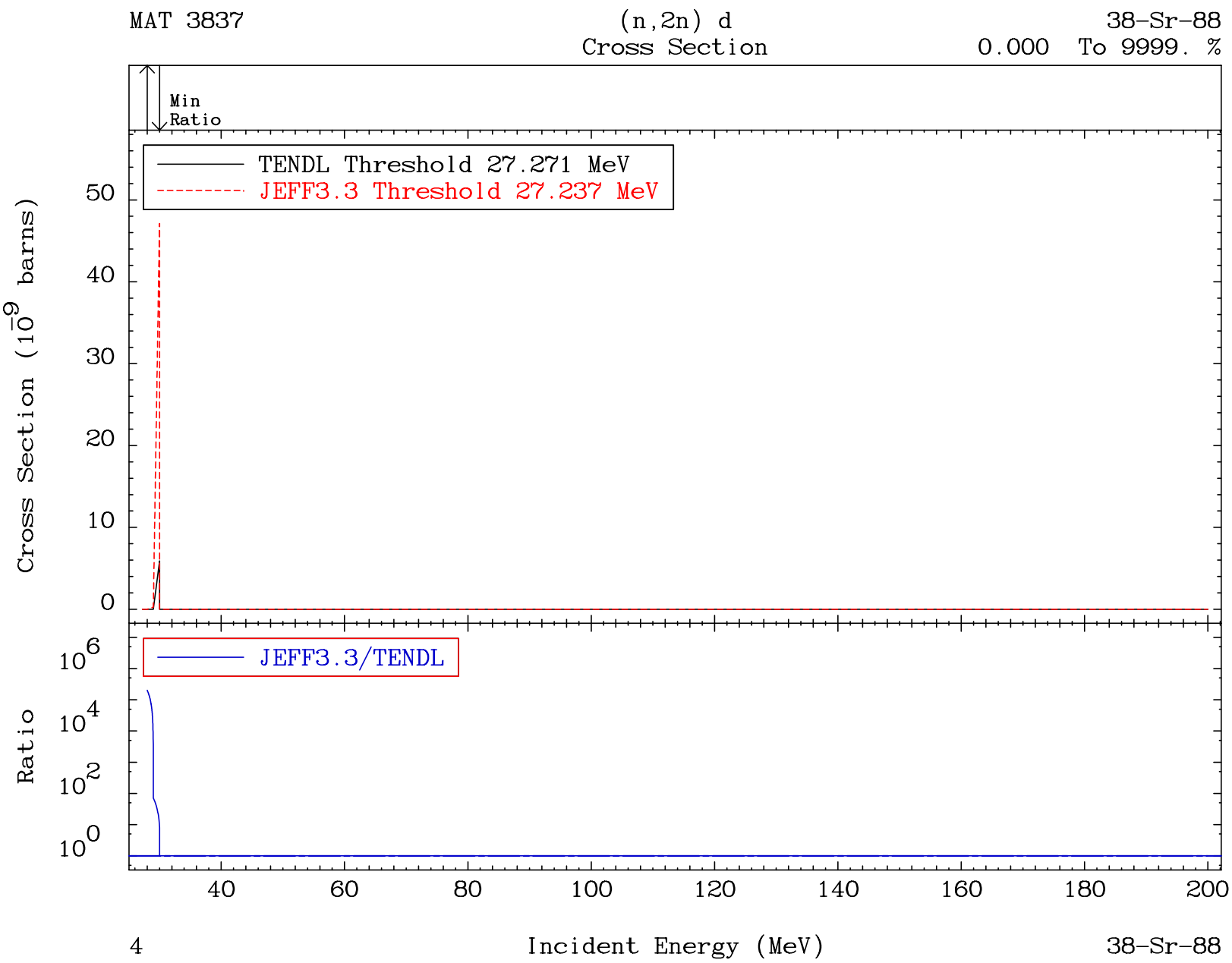
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

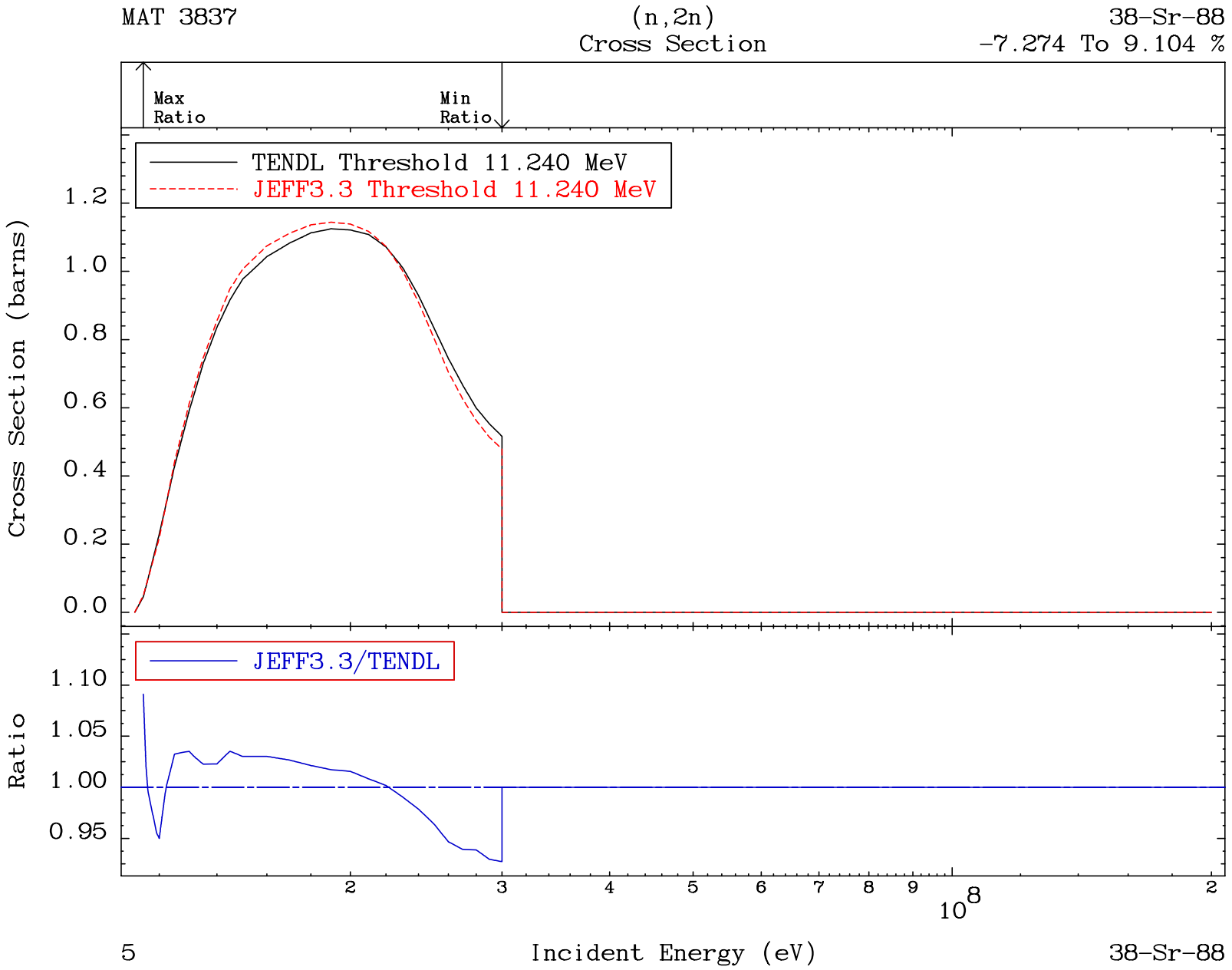
Press Mouse Button to Start

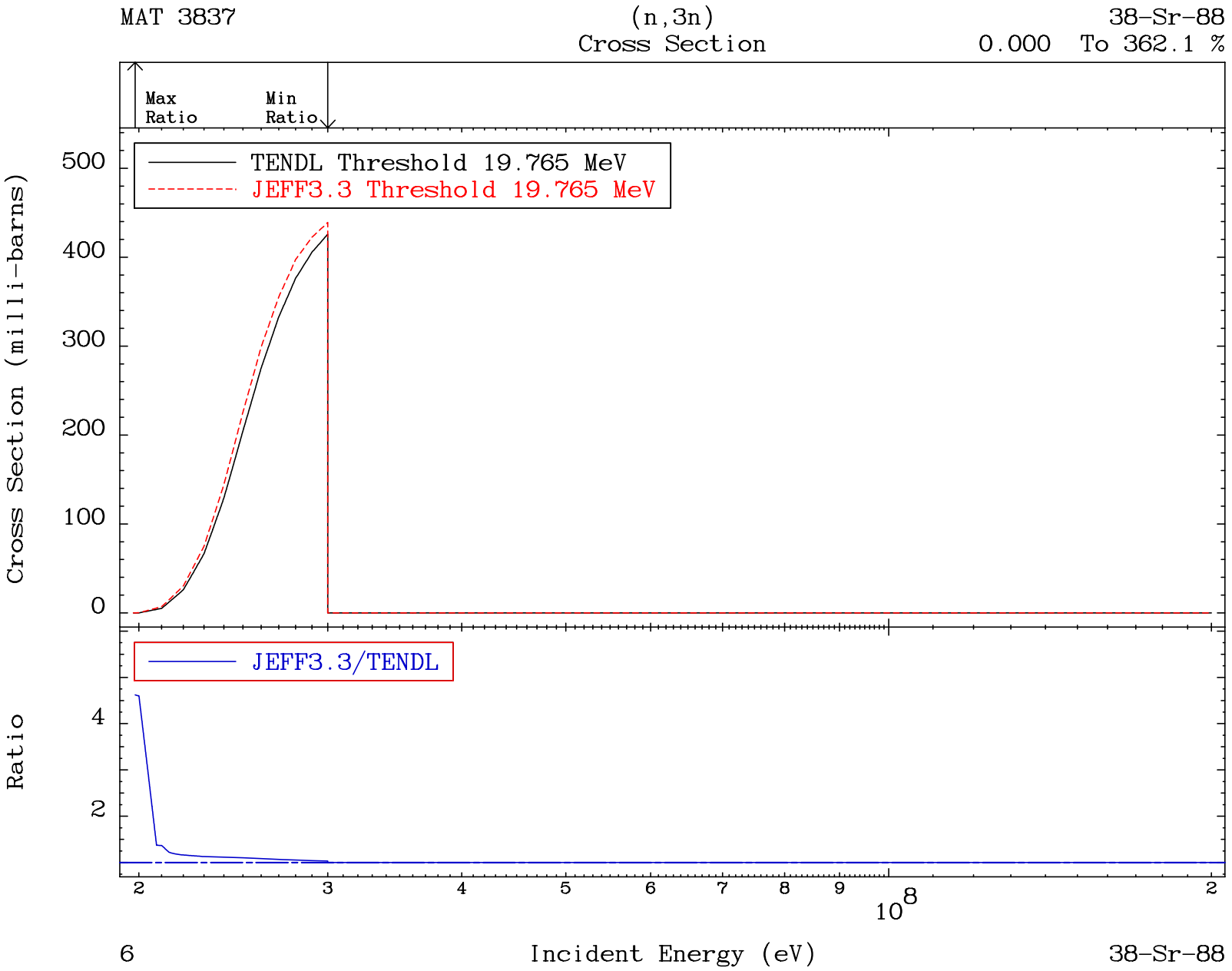

MAT 3837
Total
Cross Section
38-Sr-88
-91.61 To 625.5 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
38-Sr-88
1

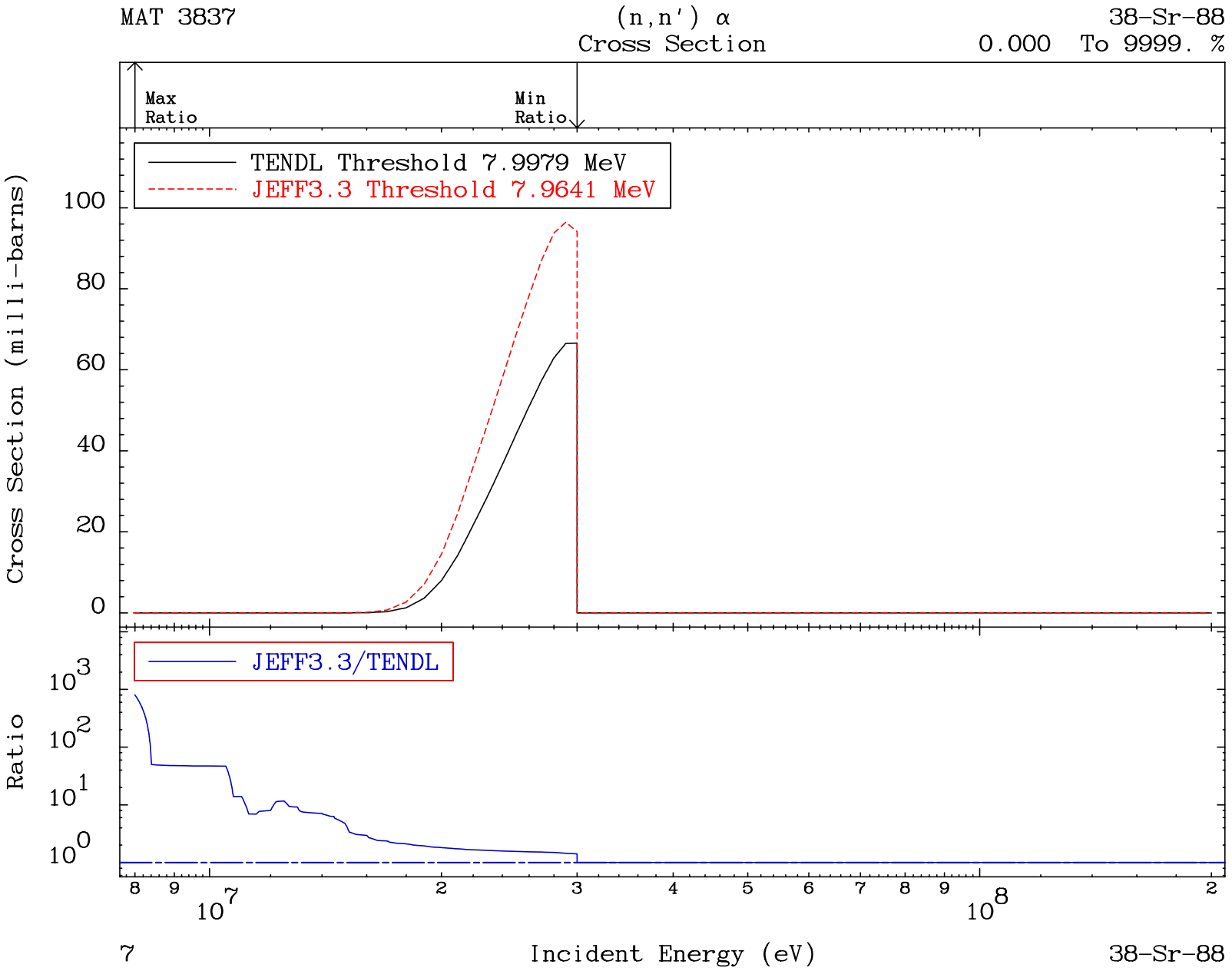

MAT 3837
Elastic
Cross Section
38-Sr-88
-91.79 To 625.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
38-Sr-88

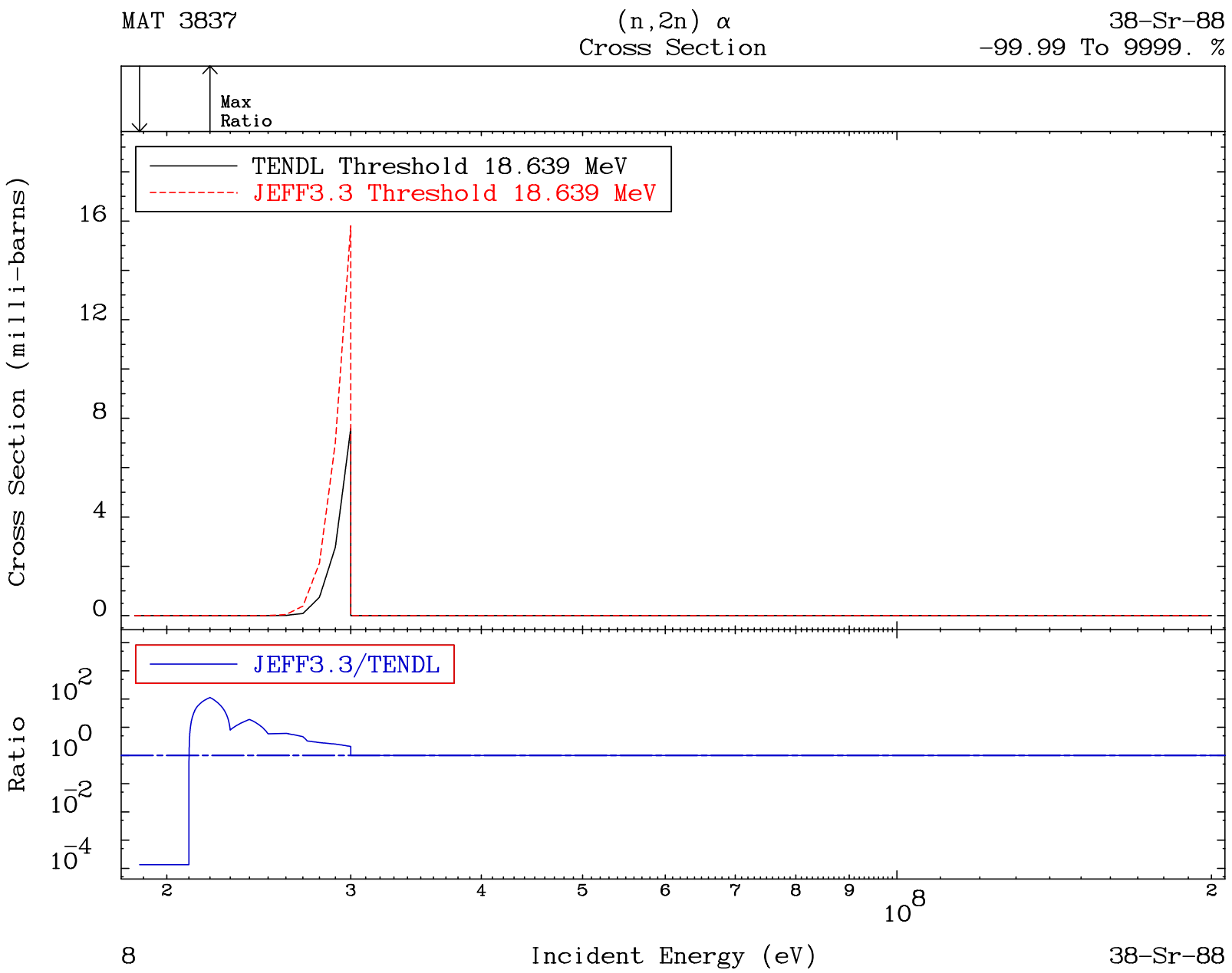

MAT 3837
Inelastic
Cross Section
38-Sr-88
-6.406 To 0.796 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.8572 MeV
JEFF3.3 Threshold 1.8572 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.00
0.96
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
38-Sr-88

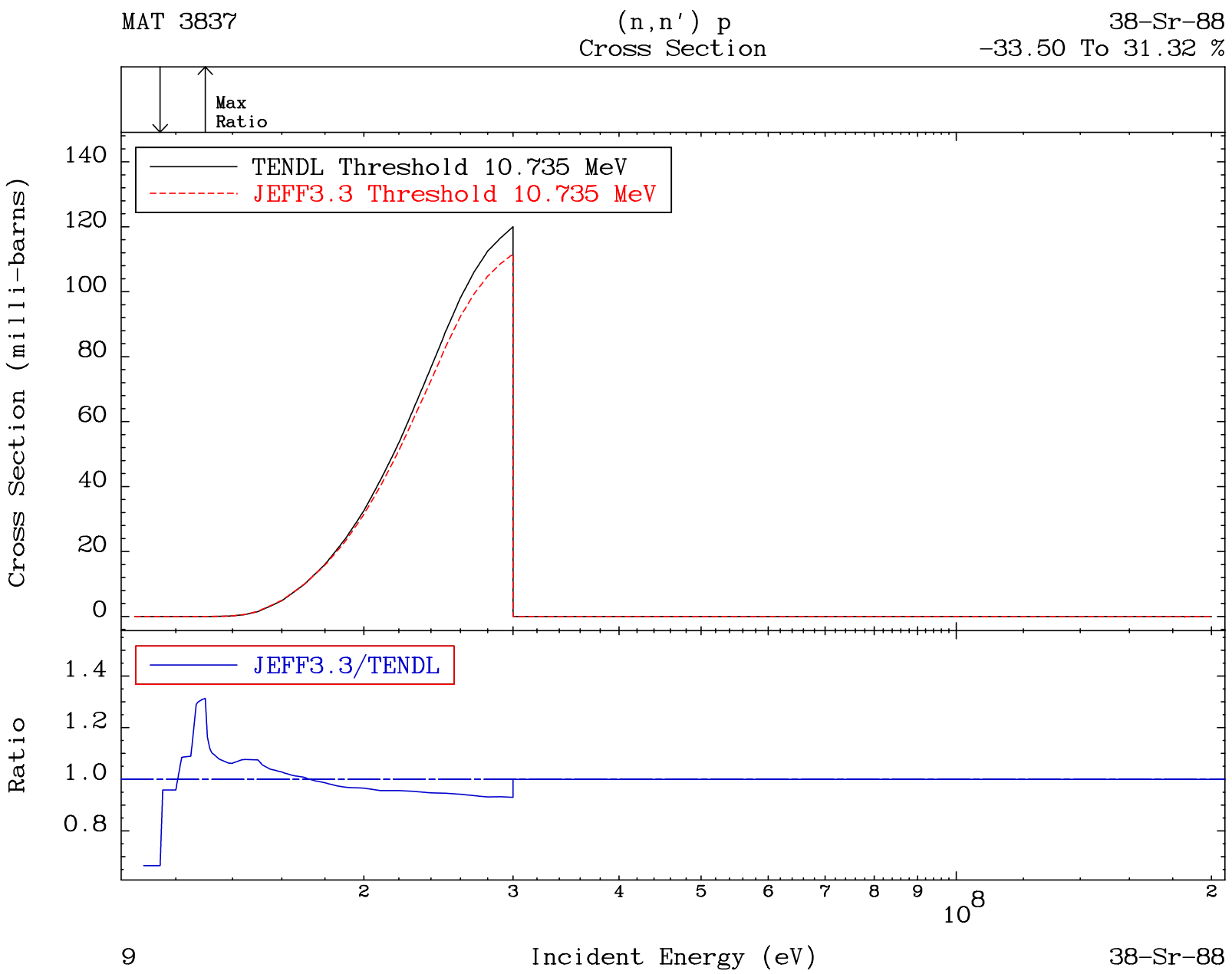

MAT 3837
(n,2n) d
Cross Section
38-Sr-88
0.000 To 9999. %
Min
Ratio
TENDL Threshold 27.271 MeV
JEFF3.3 Threshold 27.237 MeV
Cross Section (10^{-9} barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^{6}
10^{4}
10^{2}
10^{0}
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
38-Sr-88

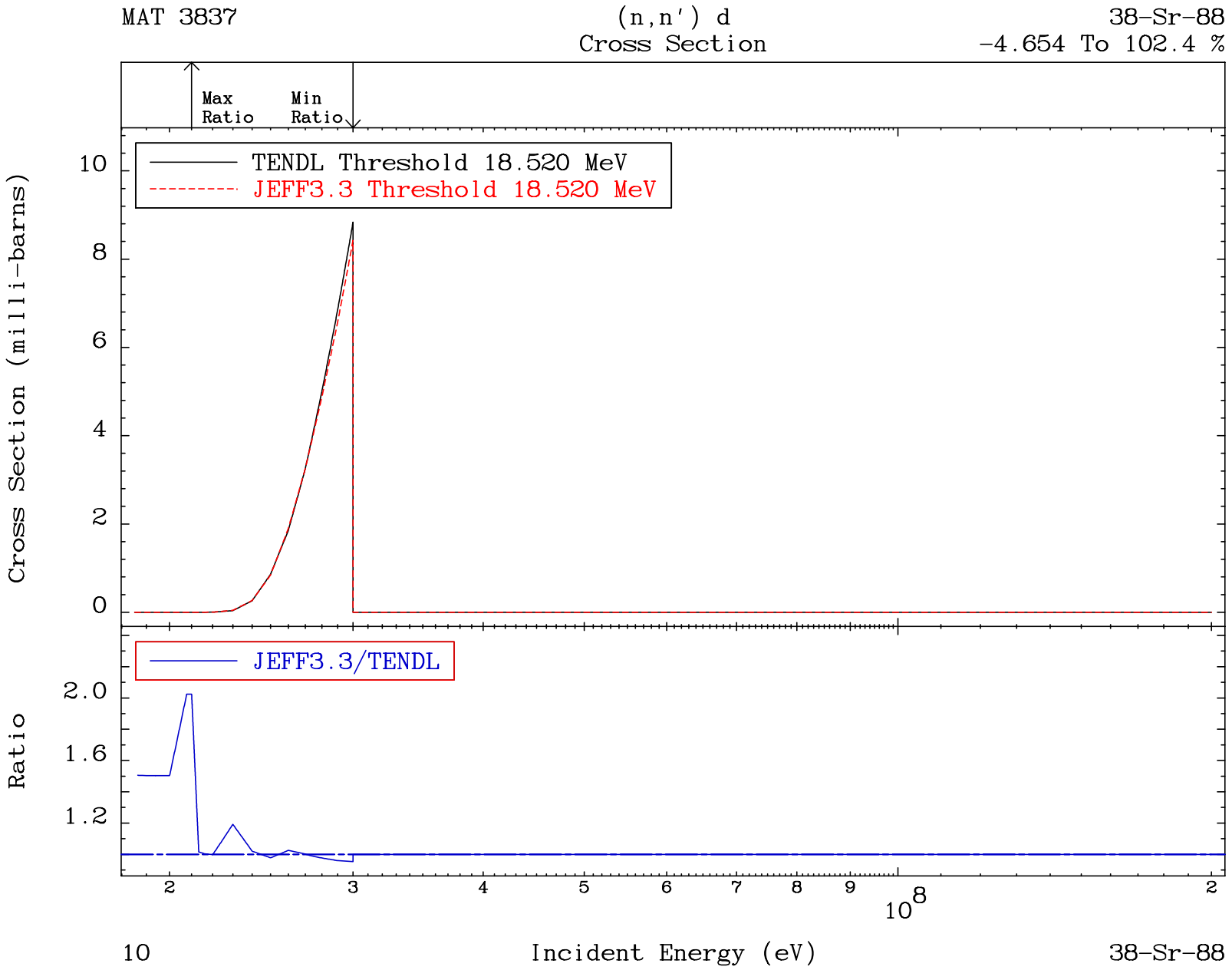

MAT 3837
(n,2n)
Cross Section
38-Sr-88
-7.274 To 9.104 %
Max Ratio
Min Ratio
TENDL Threshold 11.240 MeV
JEFF3.3 Threshold 11.240 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
38-Sr-88

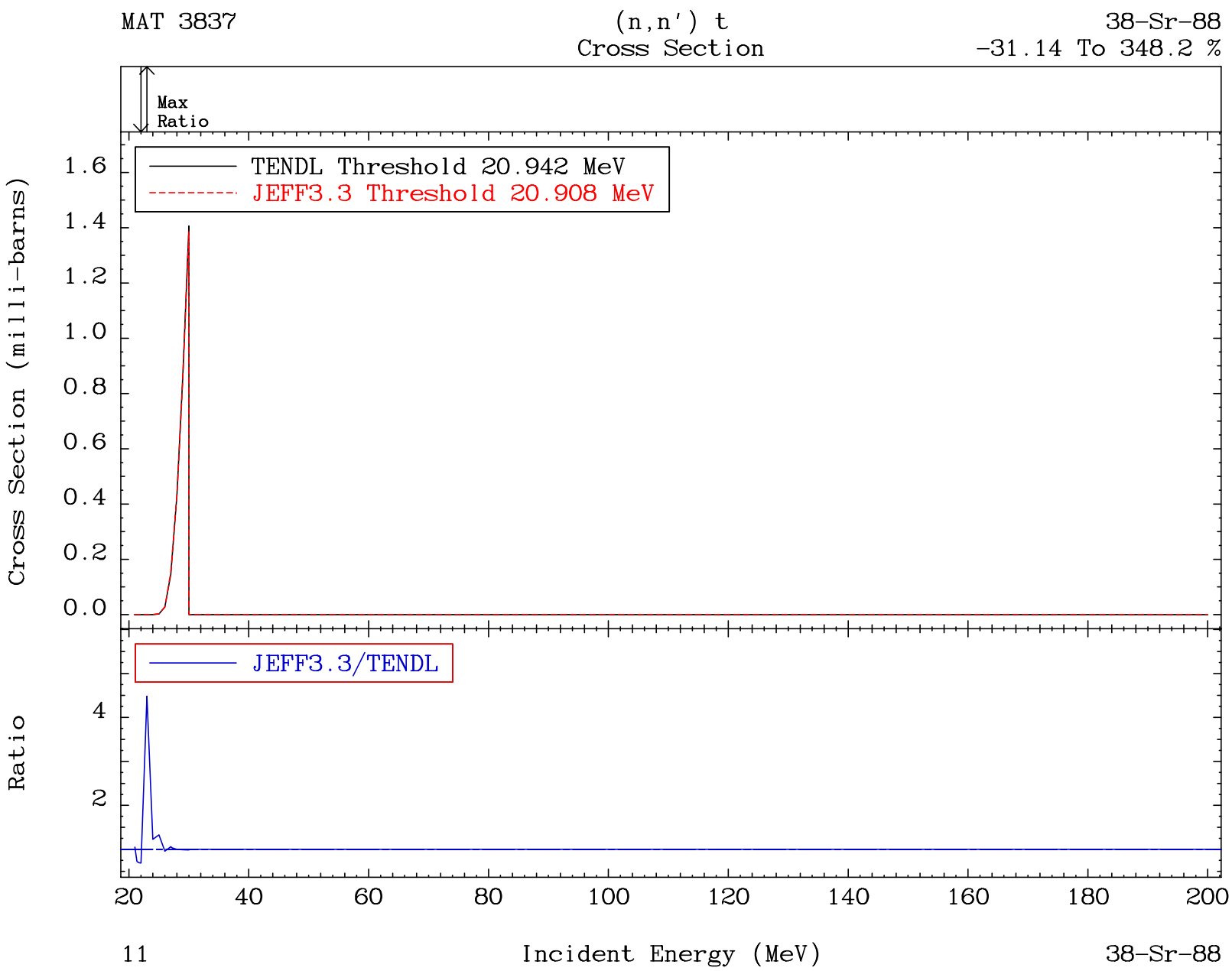

MAT 3837
(n,3n)
Cross Section
38-Sr-88
0.000 To 362.1 %
Max Ratio
Min Ratio
TENDL Threshold 19.765 MeV
JEFF3.3 Threshold 19.765 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
38-Sr-88

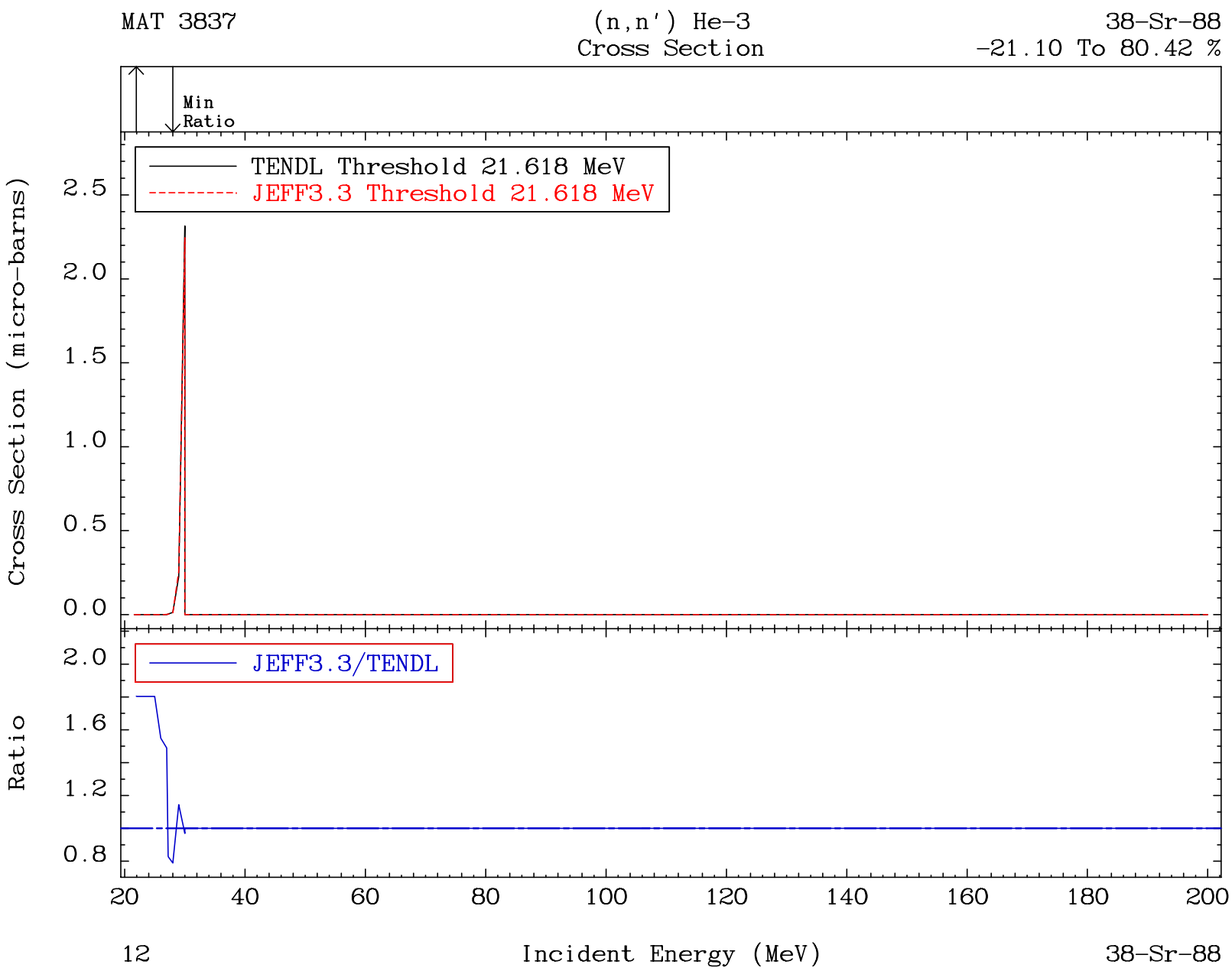

MAT 3837
(n,n') α
Cross Section
38-Sr-88
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.9979 MeV
JEFF3.3 Threshold 7.9641 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
38-Sr-88

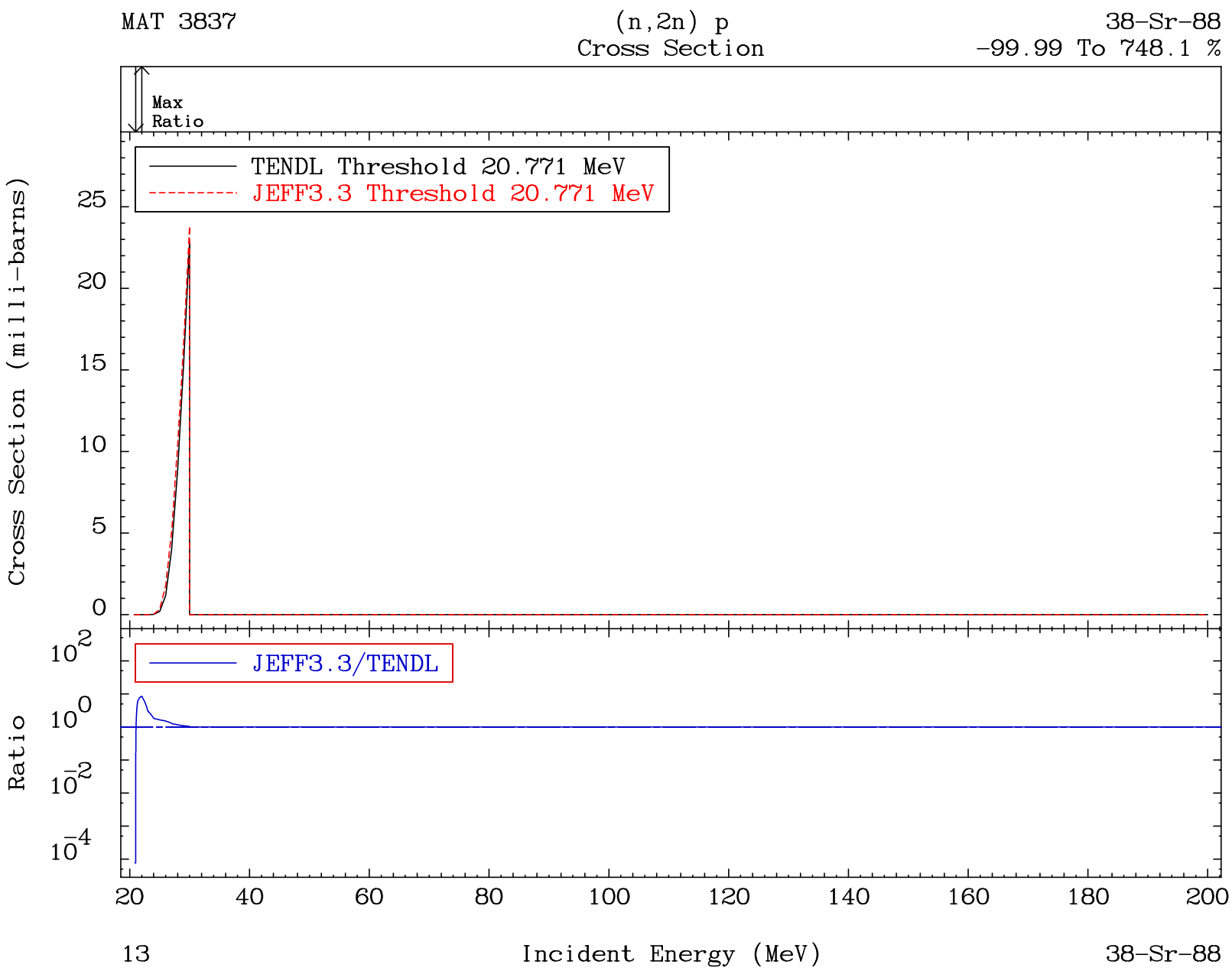

MAT 3837
(n,2n) α
Cross Section
38-Sr-88
-99.99 To 9999. %
Max
Ratio
TENDL Threshold 18.639 MeV
JEFF3.3 Threshold 18.639 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
38-Sr-88

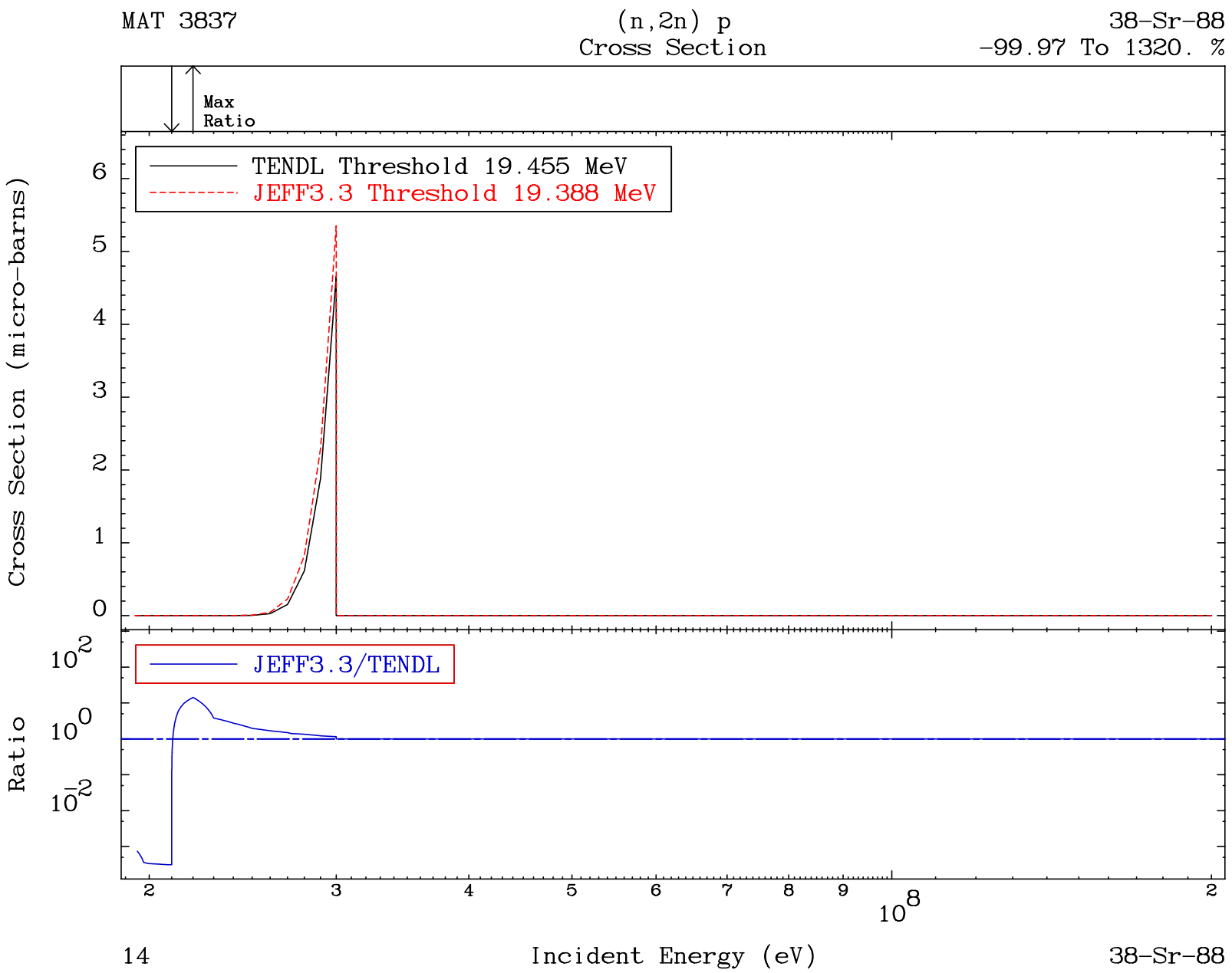

MAT 3837
(n,n') p
Cross Section
38-Sr-88
-33.50 To 31.32 %
Max
Ratio
TENDL Threshold 10.735 MeV
JEFF3.3 Threshold 10.735 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
38-Sr-88

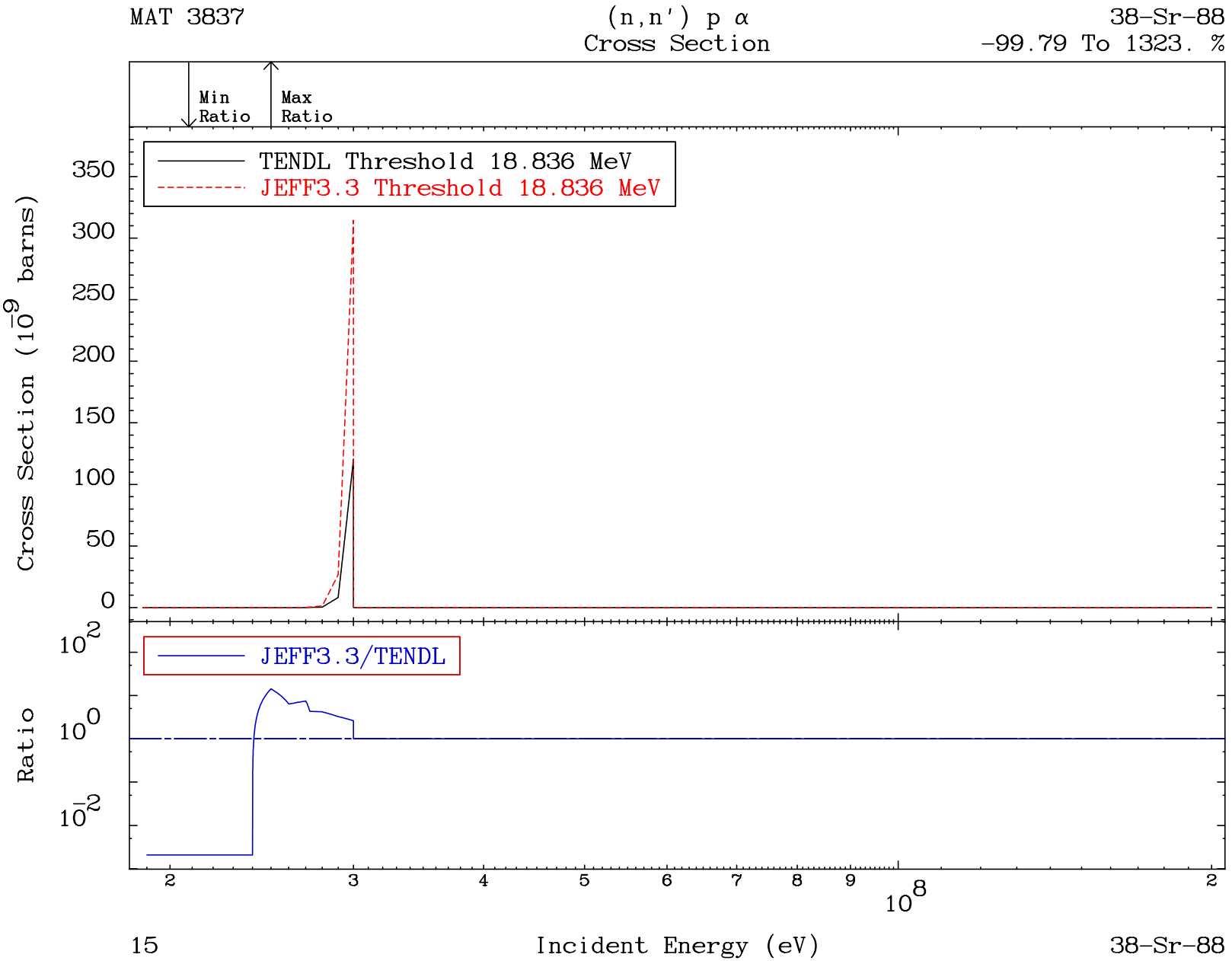

MAT 3837
(n,n') d
Cross Section
38-Sr-88
-4.654 To 102.4 %
Max Ratio
Min Ratio
TENDL Threshold 18.520 MeV
JEFF3.3 Threshold 18.520 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
10
38-Sr-88

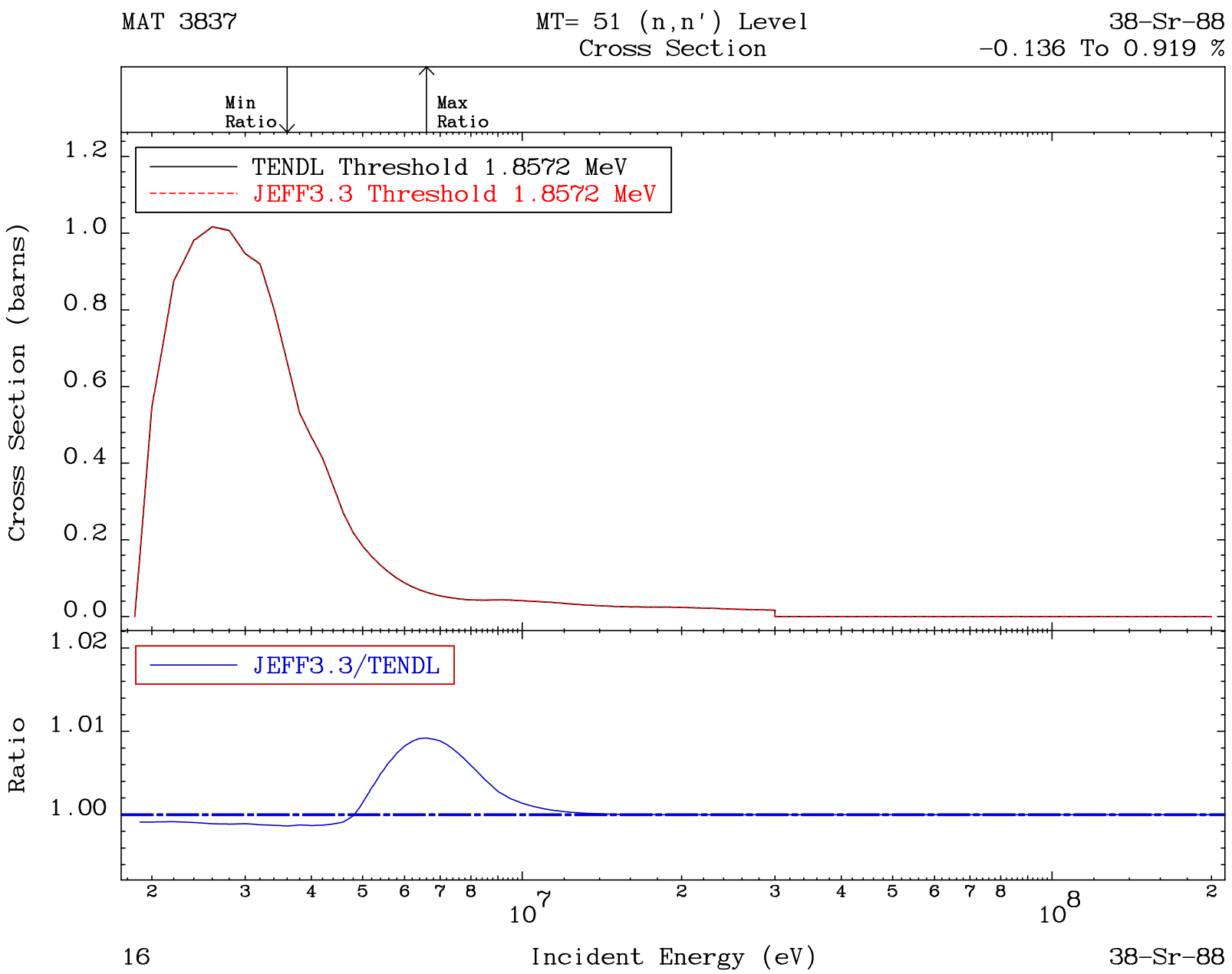

MAT 3837
(n,n') t
Cross Section
38-Sr-88
-31.14 To 348.2 %
Max
Ratio
TENDL Threshold 20.942 MeV
JEFF3.3 Threshold 20.908 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
4
2
20
40
60
80
100
120
140
160
180
200
11
Incident Energy (MeV)
38-Sr-88

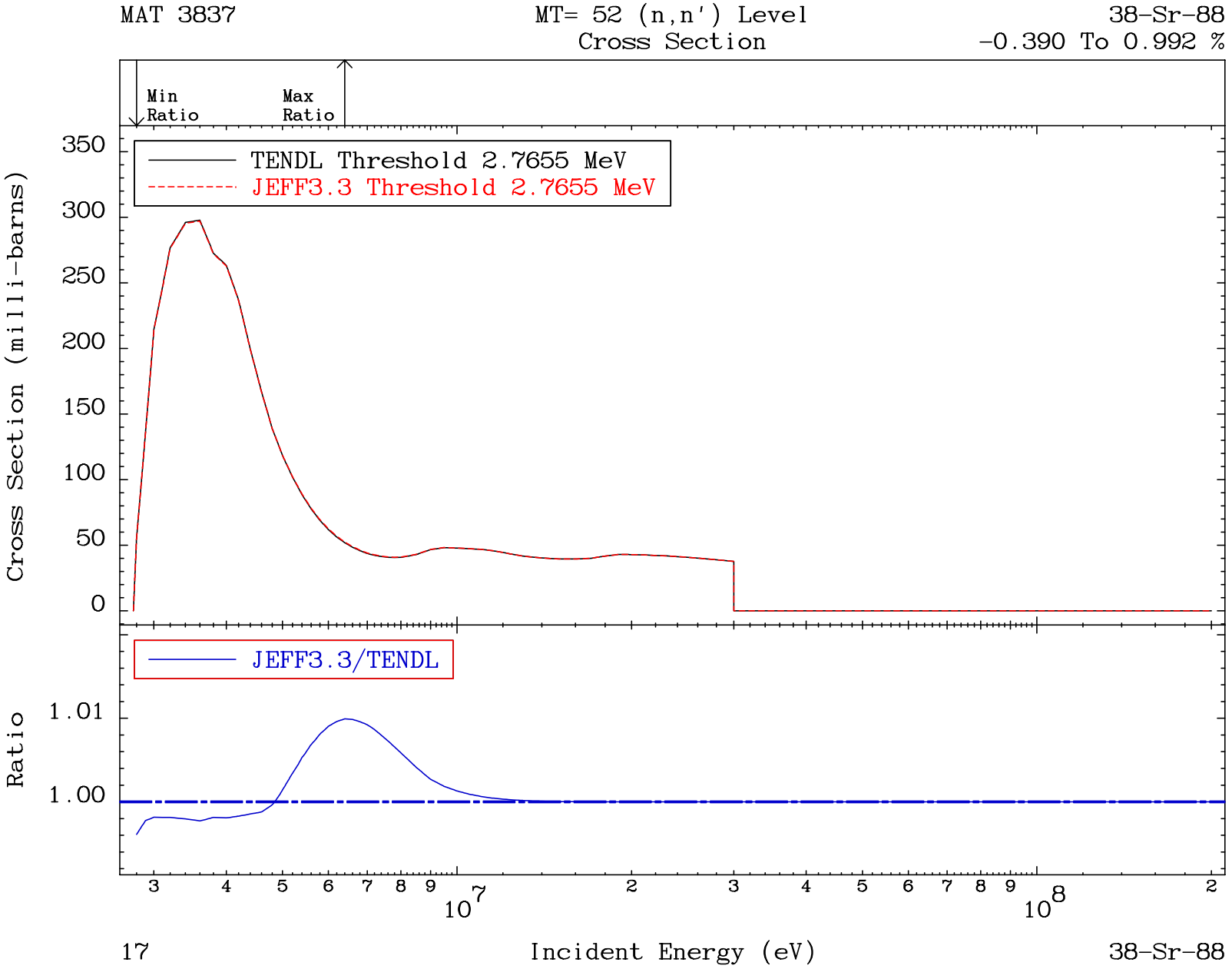

MAT 3837
(n,n') He-3
Cross Section
38-Sr-88
-21.10 To 80.42 %
Min
Ratio
TENDL Threshold 21.618 MeV
JEFF3.3 Threshold 21.618 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
0.8
20
40
60
80
100
120
140
160
180
200
12
Incident Energy (MeV)
38-Sr-88

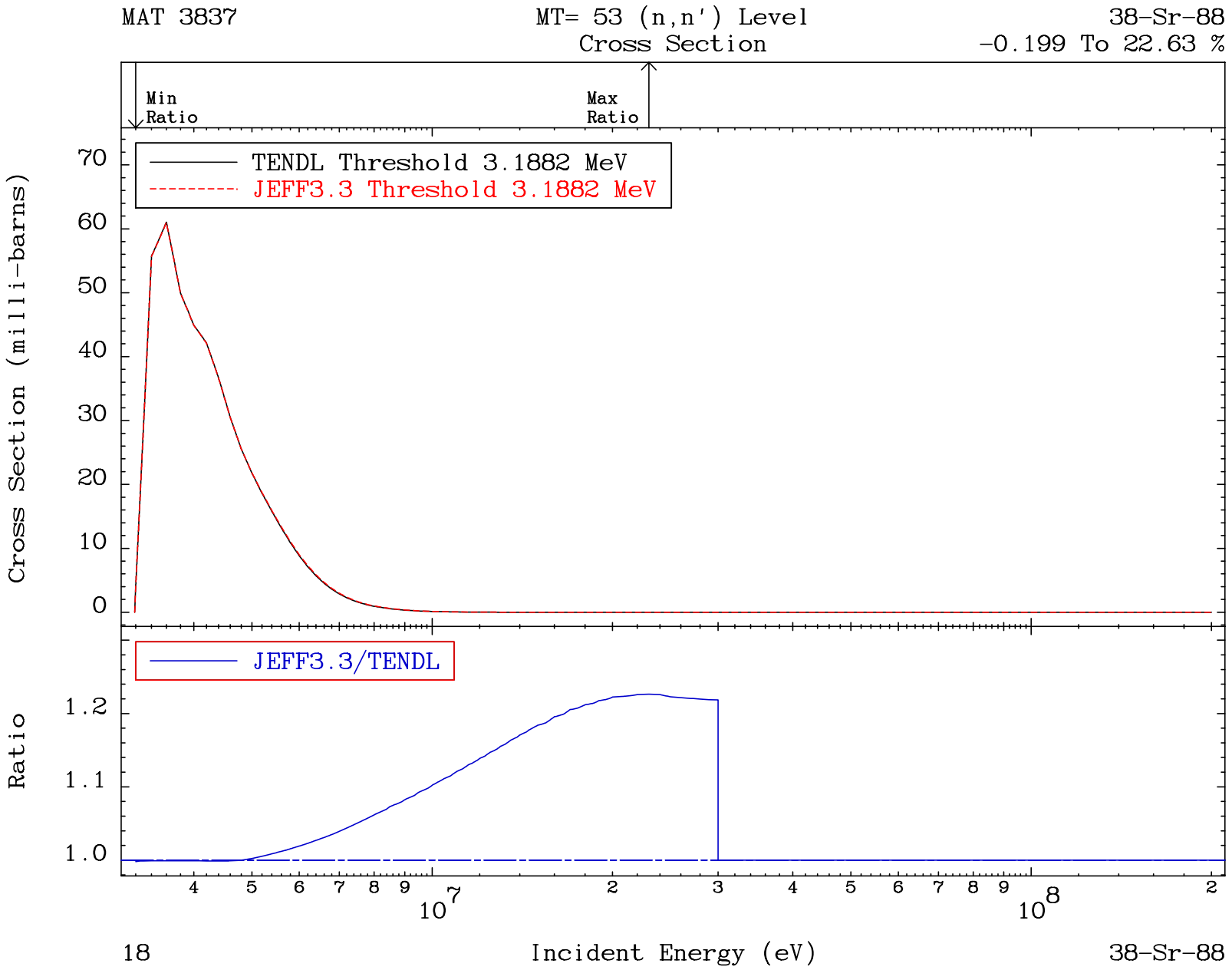

MAT 3837
(n,2n) p
Cross Section
38-Sr-88
-99.99 To 748.1 %
Max
Ratio
TENDL Threshold 20.771 MeV
JEFF3.3 Threshold 20.771 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
20
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
38-Sr-88

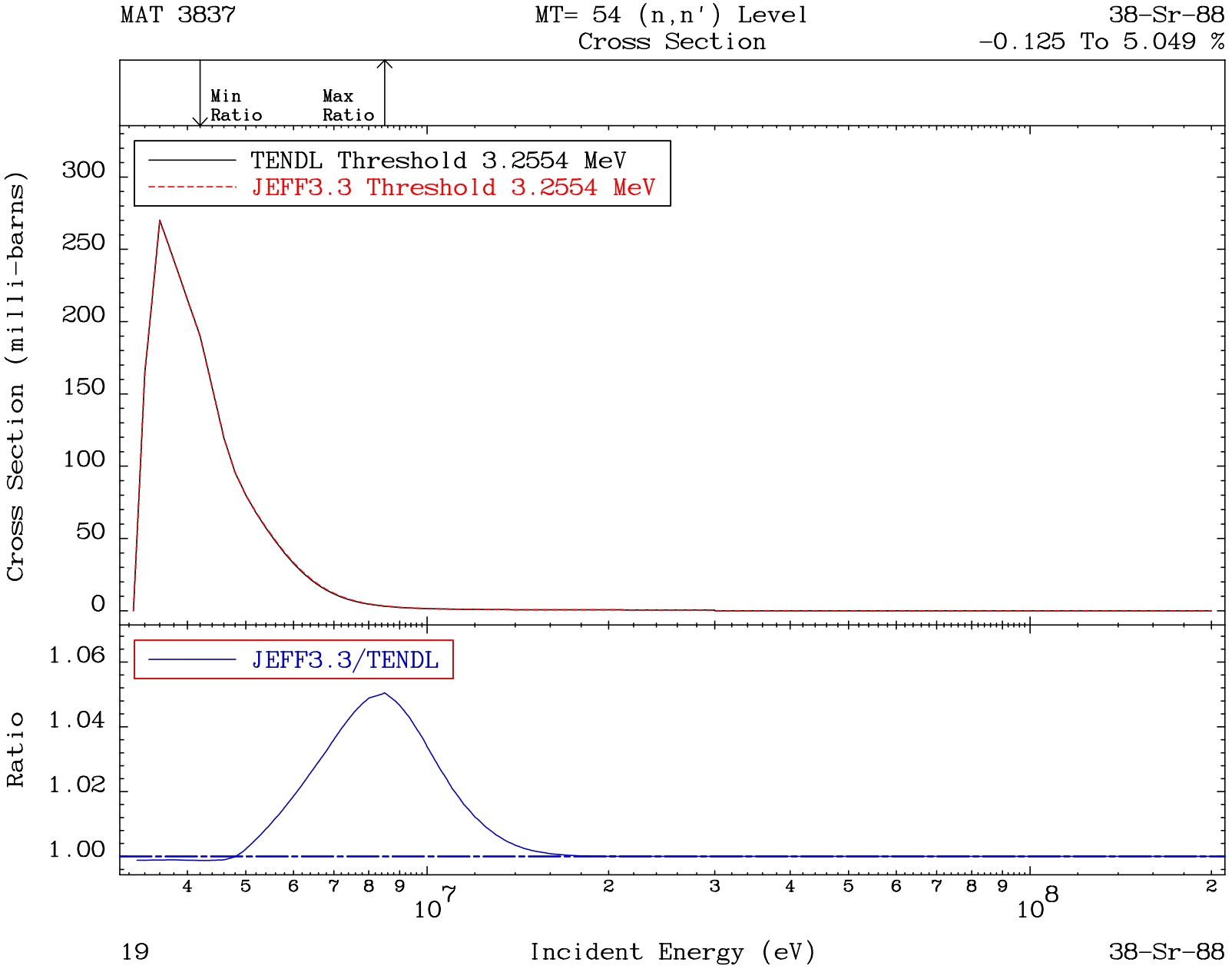

MAT 3837
(n,2n) p
Cross Section
38-Sr-88
-99.97 To 1320. %
Max
Ratio
TENDL Threshold 19.455 MeV
JEFF3.3 Threshold 19.388 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
38-Sr-88

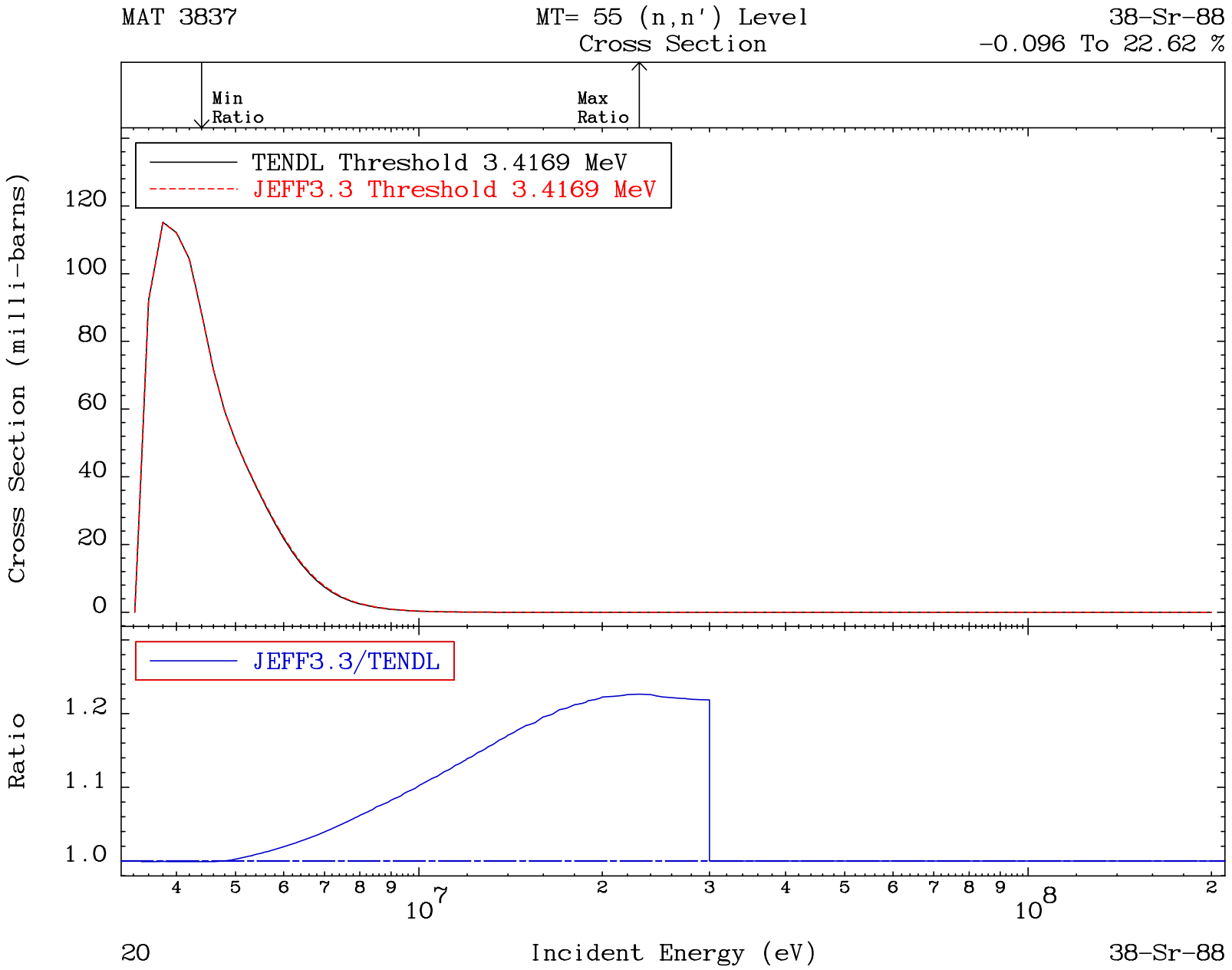

MAT 3837
(n,n') p α
Cross Section
38-Sr-88
-99.79 To 1323. %
Min Ratio
Max Ratio
TENDL Threshold 18.836 MeV
JEFF3.3 Threshold 18.836 MeV
Cross Section (10^-9 barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
38-Sr-88

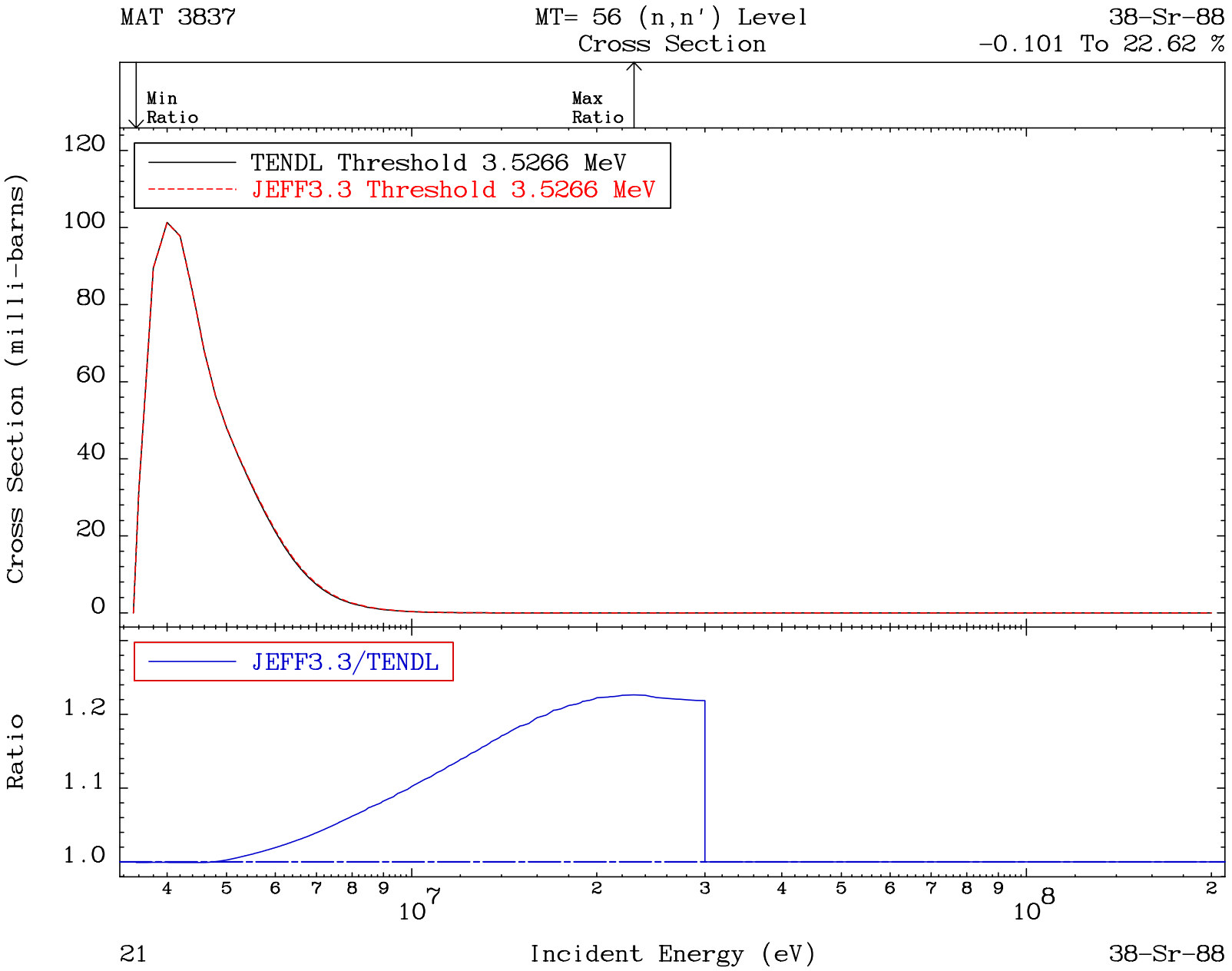

MAT 3837
MT= 51 (n,n') Level
Cross Section
38-Sr-88
-0.136 To 0.919 %
Min Ratio
Max Ratio
TENDL Threshold 1.8572 MeV
JEFF3.3 Threshold 1.8572 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
38-Sr-88

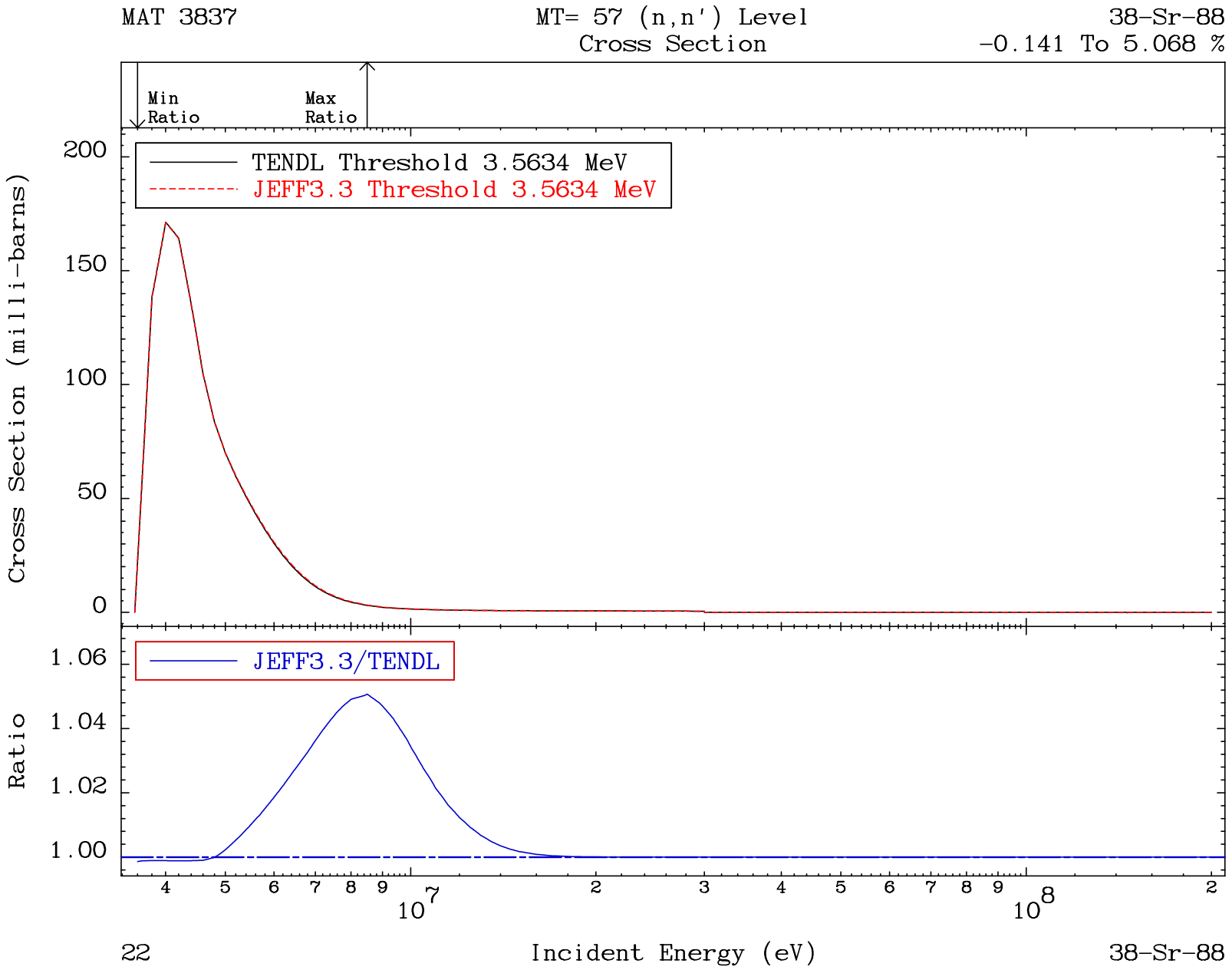

MAT 3837
MT= 52 (n,n') Level
Cross Section
38-Sr-88
-0.390 To 0.992 %
Min Ratio
Max Ratio
TENDL Threshold 2.7655 MeV
JEFF3.3 Threshold 2.7655 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
17
Incident Energy (eV)
38-Sr-88

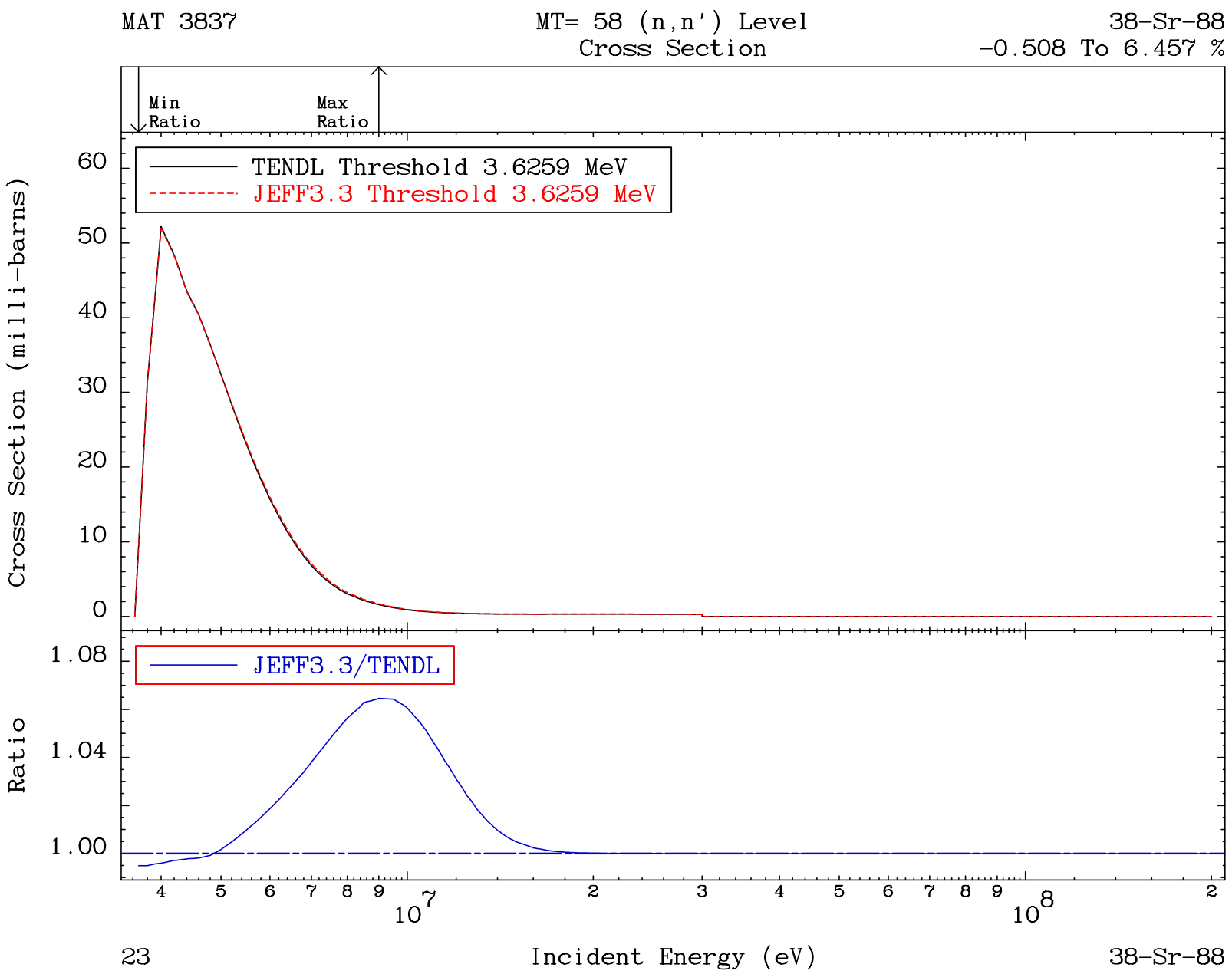

MAT 3837
MT= 53 (n,n') Level
Cross Section
38-Sr-88
-0.199 To 22.63 %
Min Ratio
Max Ratio
TENDL Threshold 3.1882 MeV
JEFF3.3 Threshold 3.1882 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
38-Sr-88

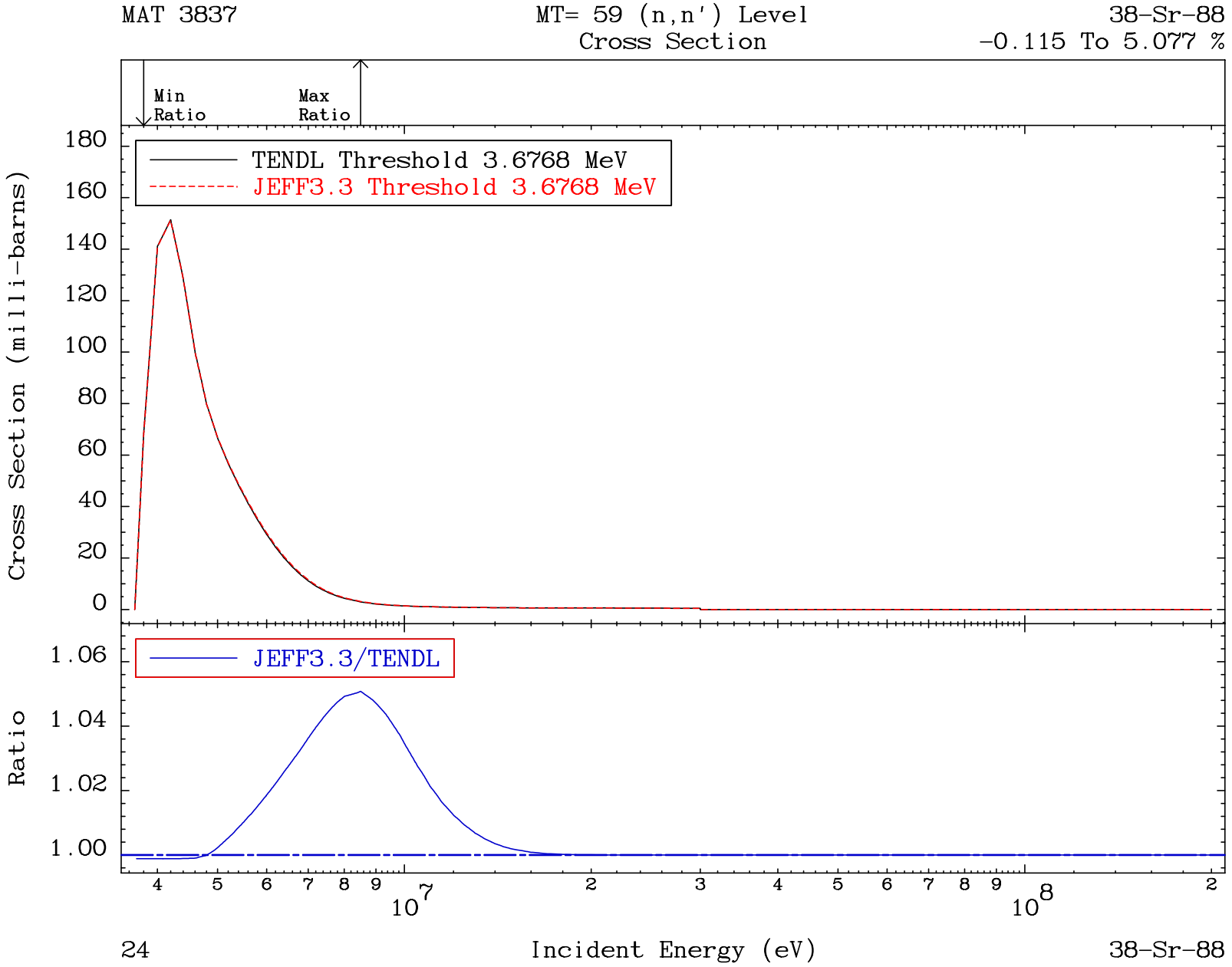

MAT 3837
MT= 54 (n,n') Level
Cross Section
38-Sr-88
-0.125 To 5.049 %
Min Ratio
Max Ratio
TENDL Threshold 3.2554 MeV
JEFF3.3 Threshold 3.2554 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
38-Sr-88

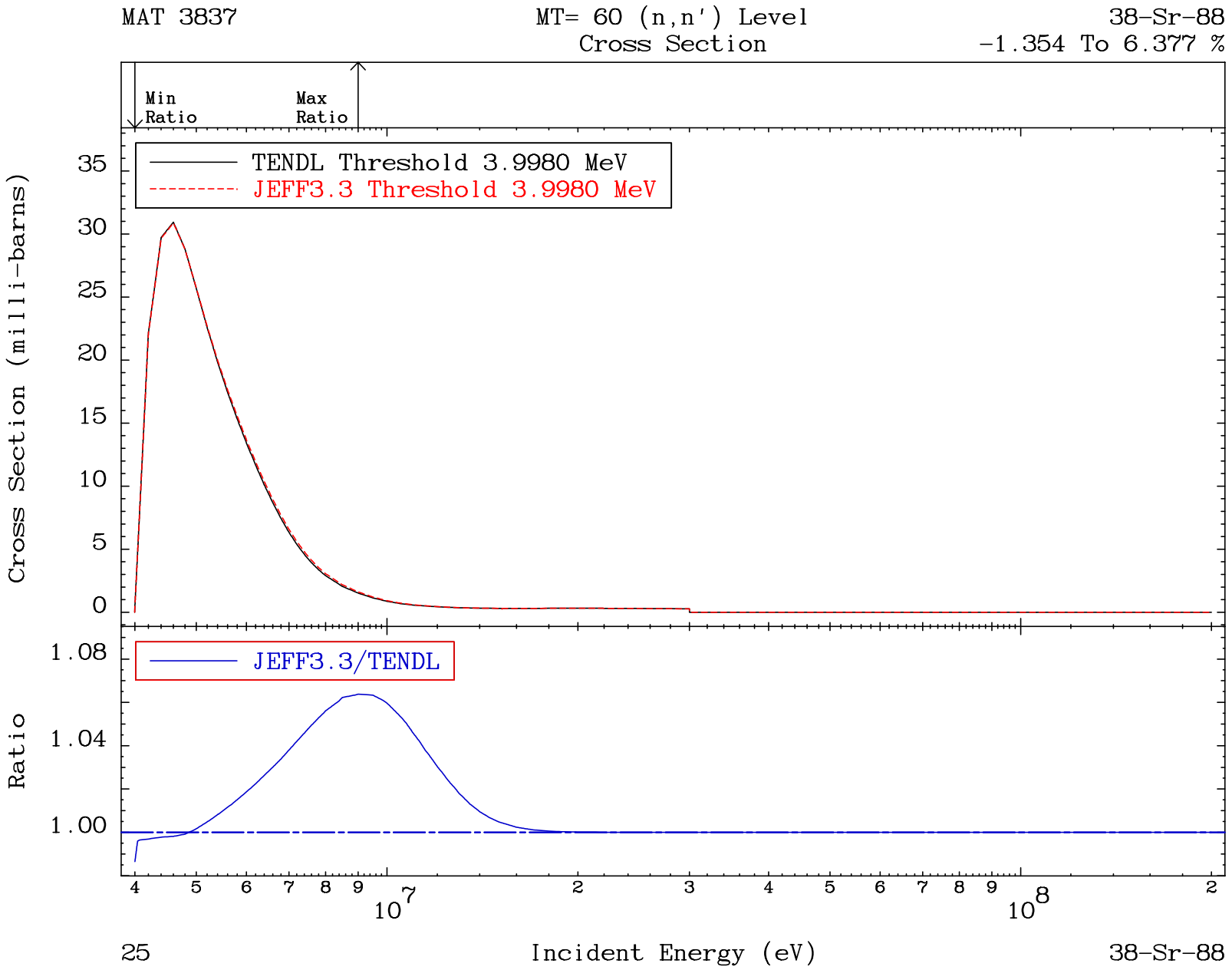

MAT 3837
MT= 55 (n,n') Level
Cross Section
38-Sr-88
-0.096 To 22.62 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.4169 MeV
JEFF3.3 Threshold 3.4169 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
20
Incident Energy (eV)
38-Sr-88

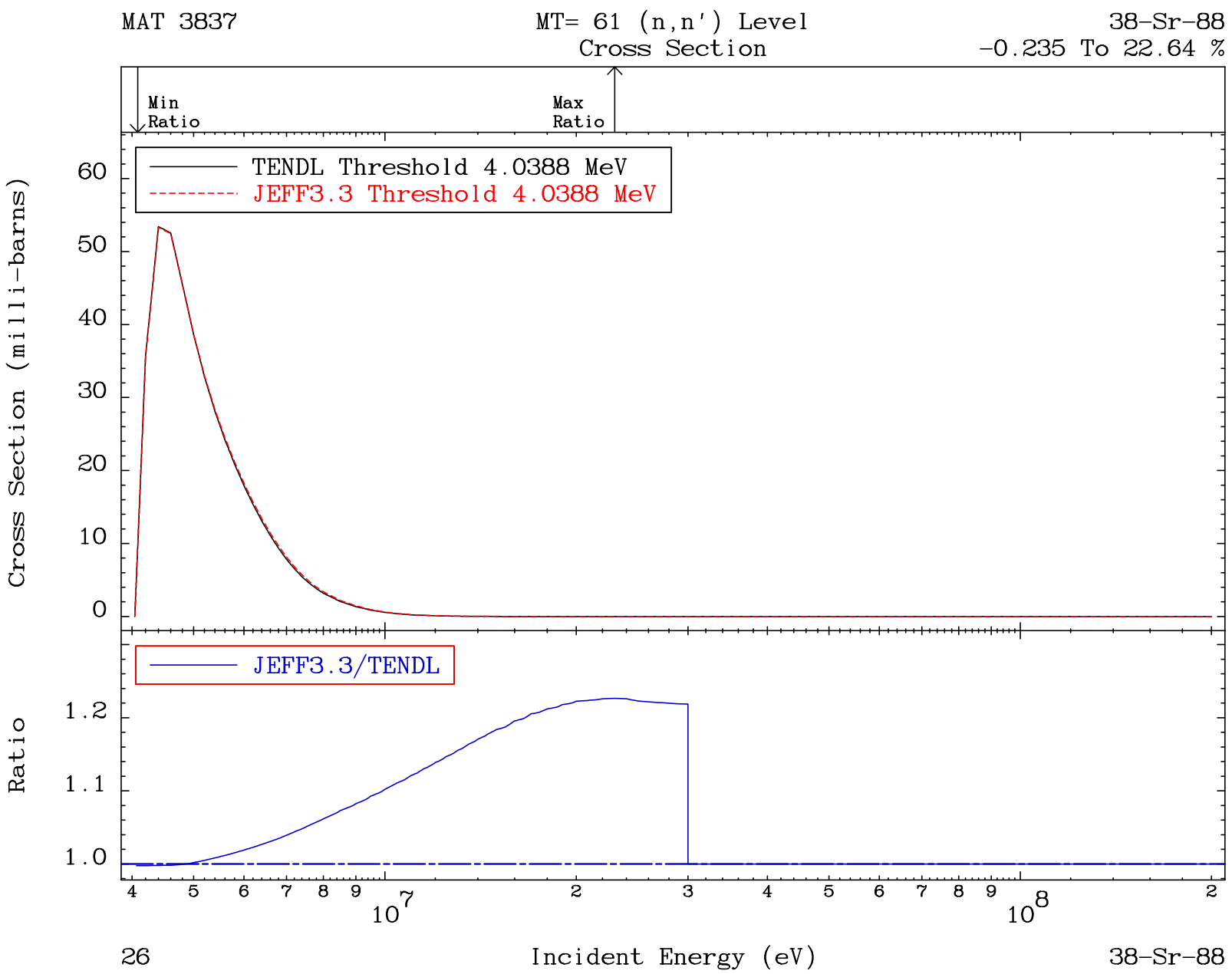

MAT 3837
MT= 56 (n,n') Level
Cross Section
38-Sr-88
-0.101 To 22.62 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.5266 MeV
JEFF3.3 Threshold 3.5266 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
38-Sr-88

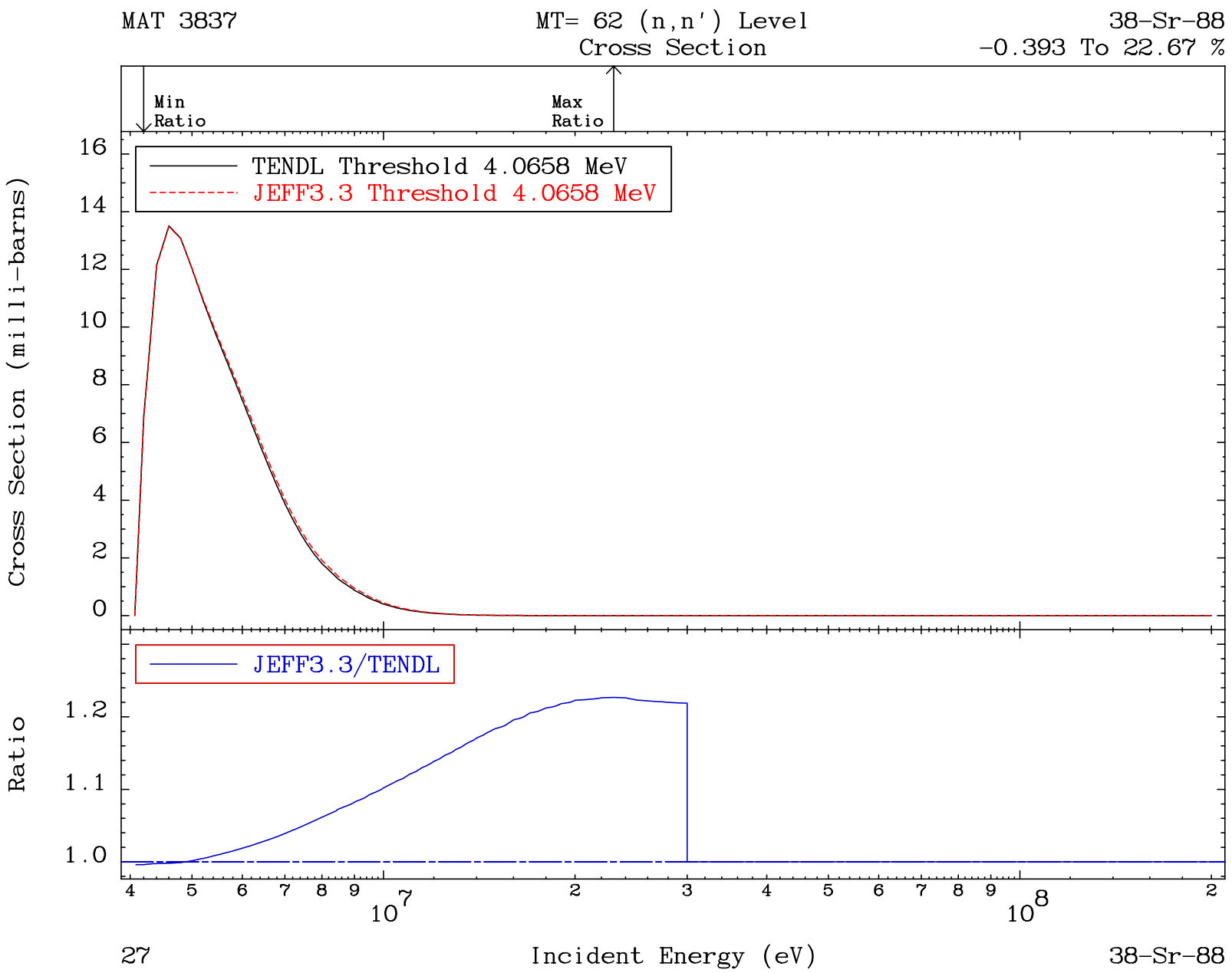

MAT 3837
MT= 57 (n,n') Level
Cross Section
38-Sr-88
-0.141 To 5.068 %
Min Ratio
Max Ratio
TENDL Threshold 3.5634 MeV
JEFF3.3 Threshold 3.5634 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
38-Sr-88

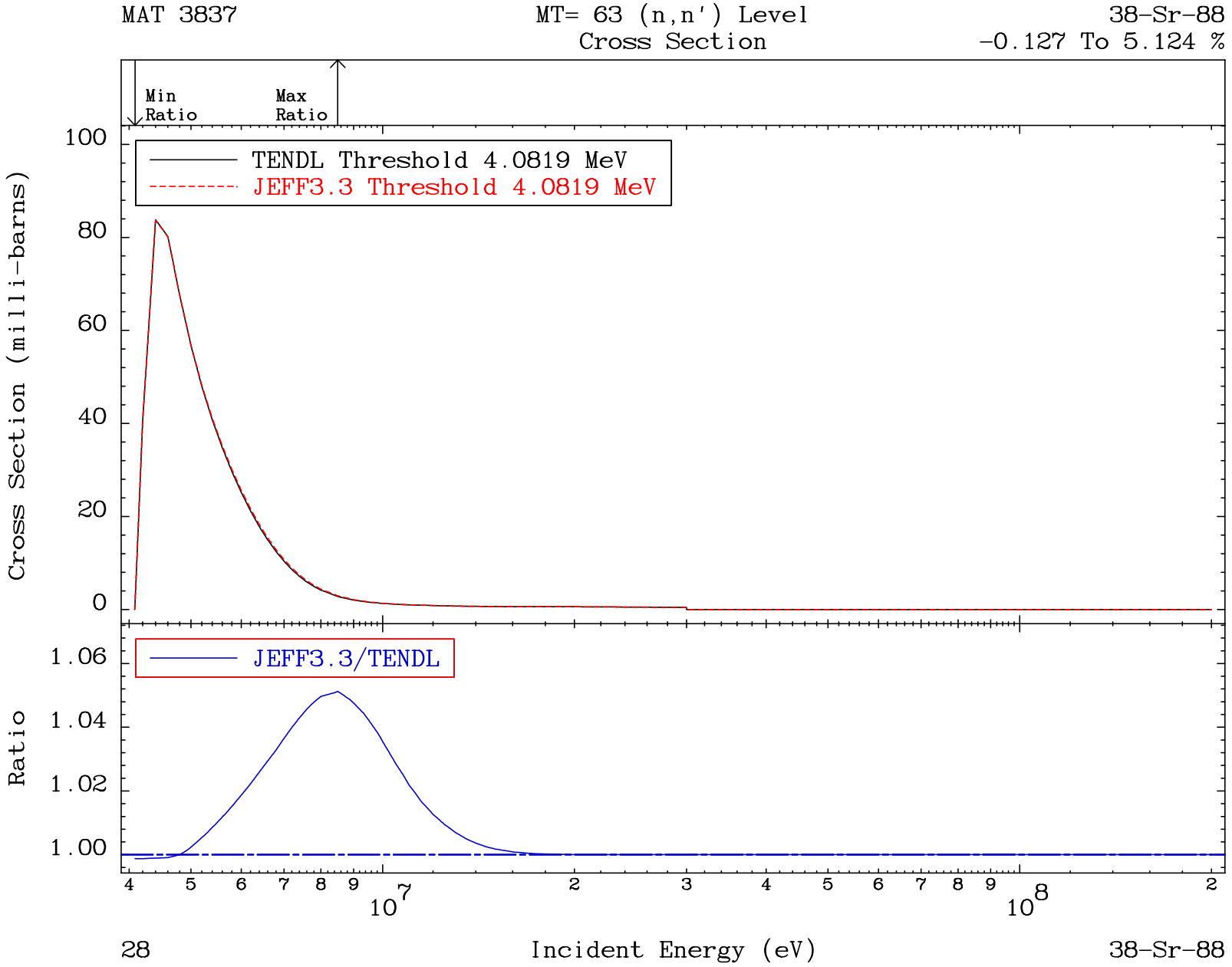

MAT 3837
MT= 58 (n,n') Level
Cross Section
38-Sr-88
-0.508 To 6.457 %
Min Ratio
Max Ratio
TENDL Threshold 3.6259 MeV
JEFF3.3 Threshold 3.6259 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.08
1.04
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
38-Sr-88

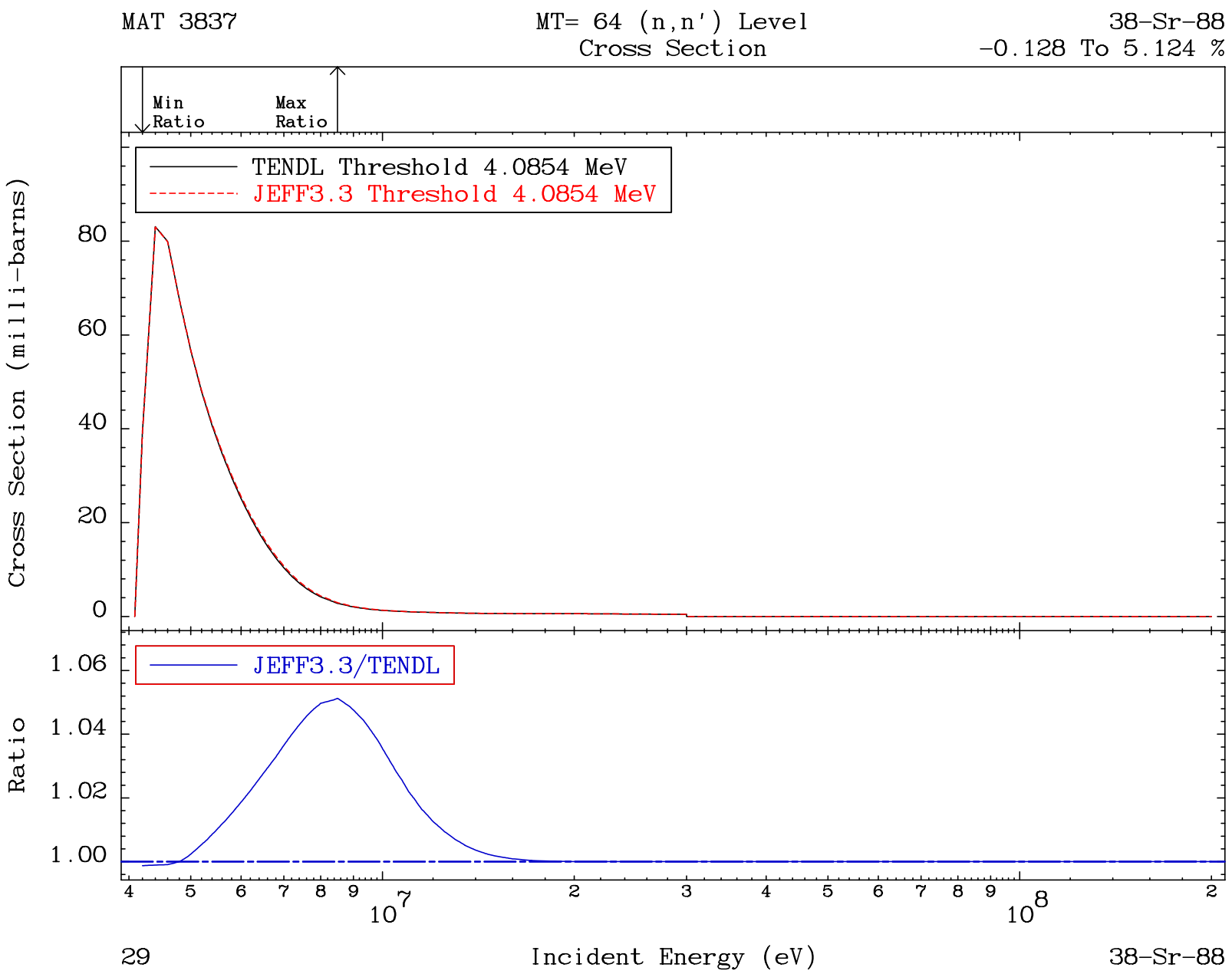

MAT 3837
MT= 59 (n,n') Level
Cross Section
38-Sr-88
-0.115 To 5.077 %
Min Ratio
Max Ratio
TENDL Threshold 3.6768 MeV
JEFF3.3 Threshold 3.6768 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
38-Sr-88

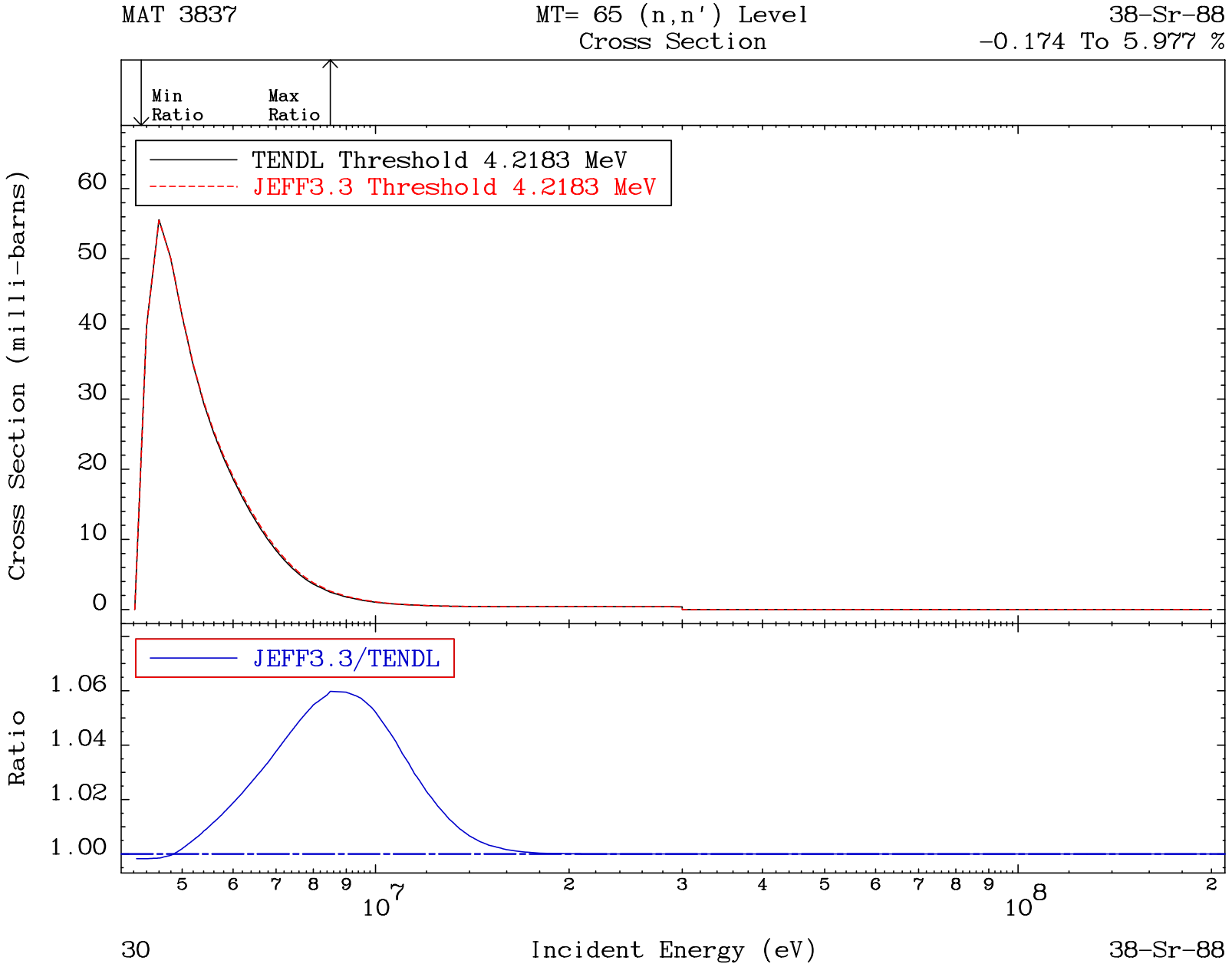

MAT 3837
MT= 60 (n,n') Level
Cross Section
38-Sr-88
-1.354 To 6.377 %
Min Ratio
Max Ratio
TENDL Threshold 3.9980 MeV
JEFF3.3 Threshold 3.9980 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.08
1.04
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
25
38-Sr-88

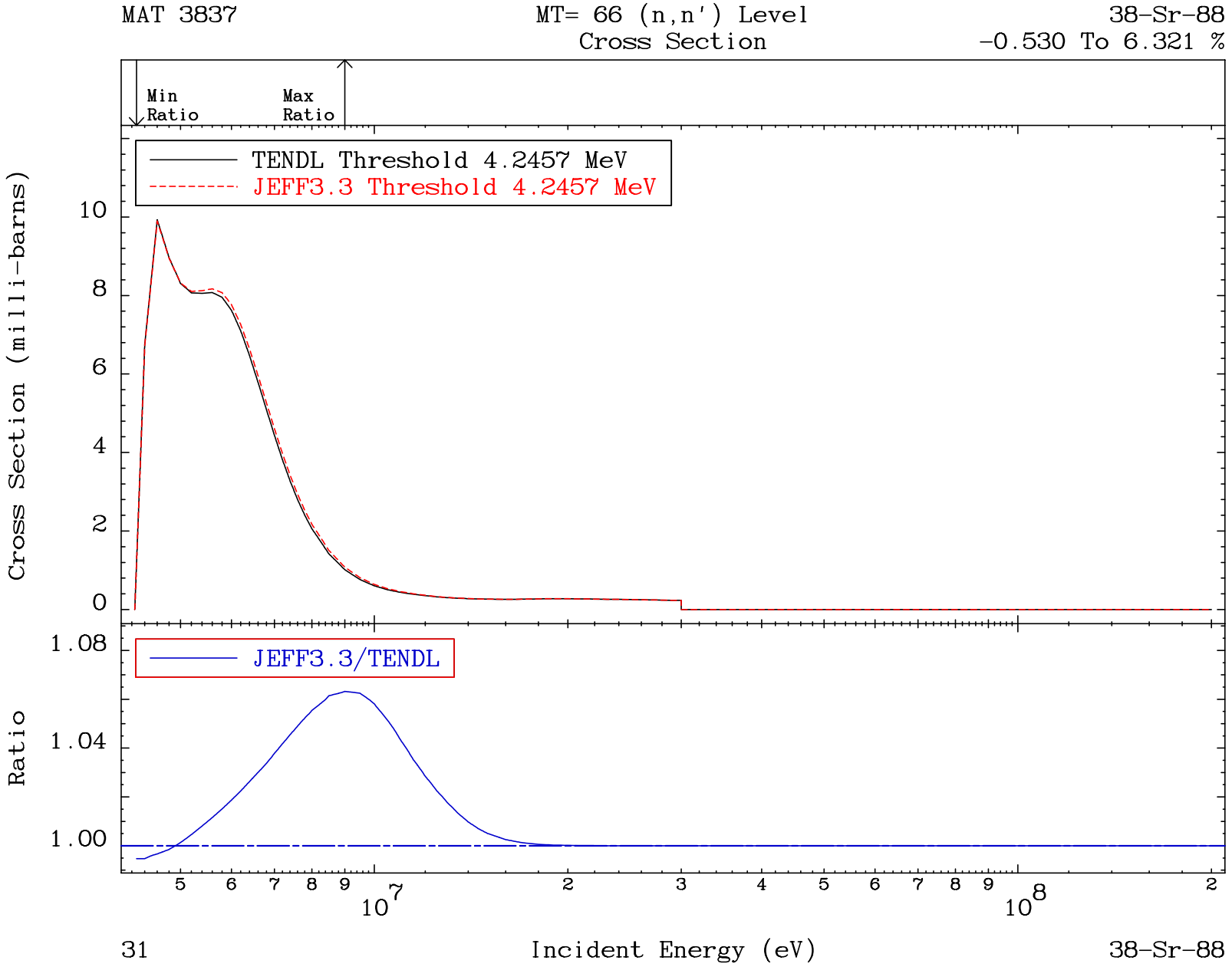

MAT 3837
MT= 61 (n,n') Level
Cross Section
38-Sr-88
-0.235 To 22.64 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.0388 MeV
JEFF3.3 Threshold 4.0388 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
38-Sr-88

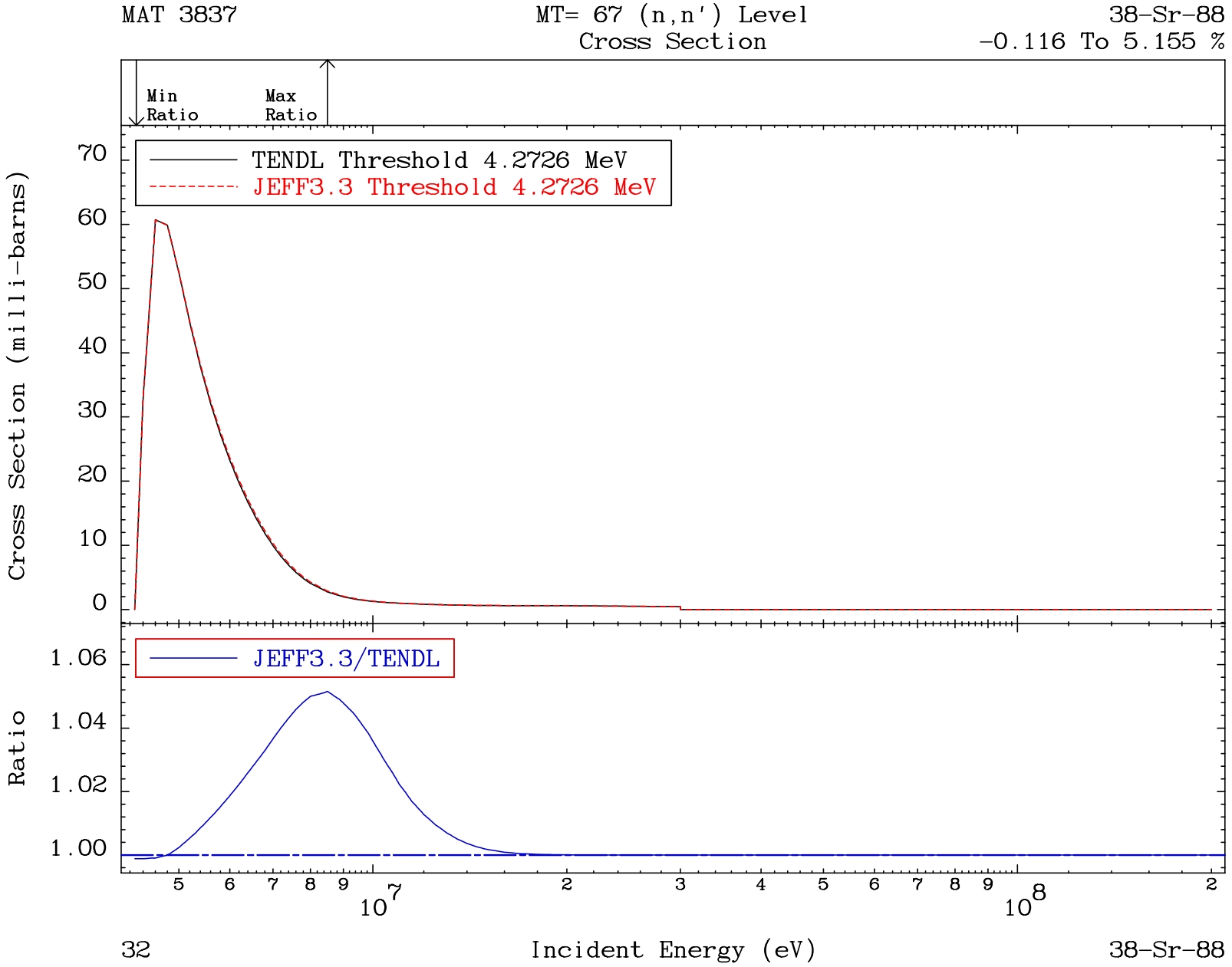

MAT 3837
MT= 62 (n,n') Level
Cross Section
38-Sr-88
-0.393 To 22.67 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.0658 MeV
JEFF3.3 Threshold 4.0658 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
27
Incident Energy (eV)
38-Sr-88

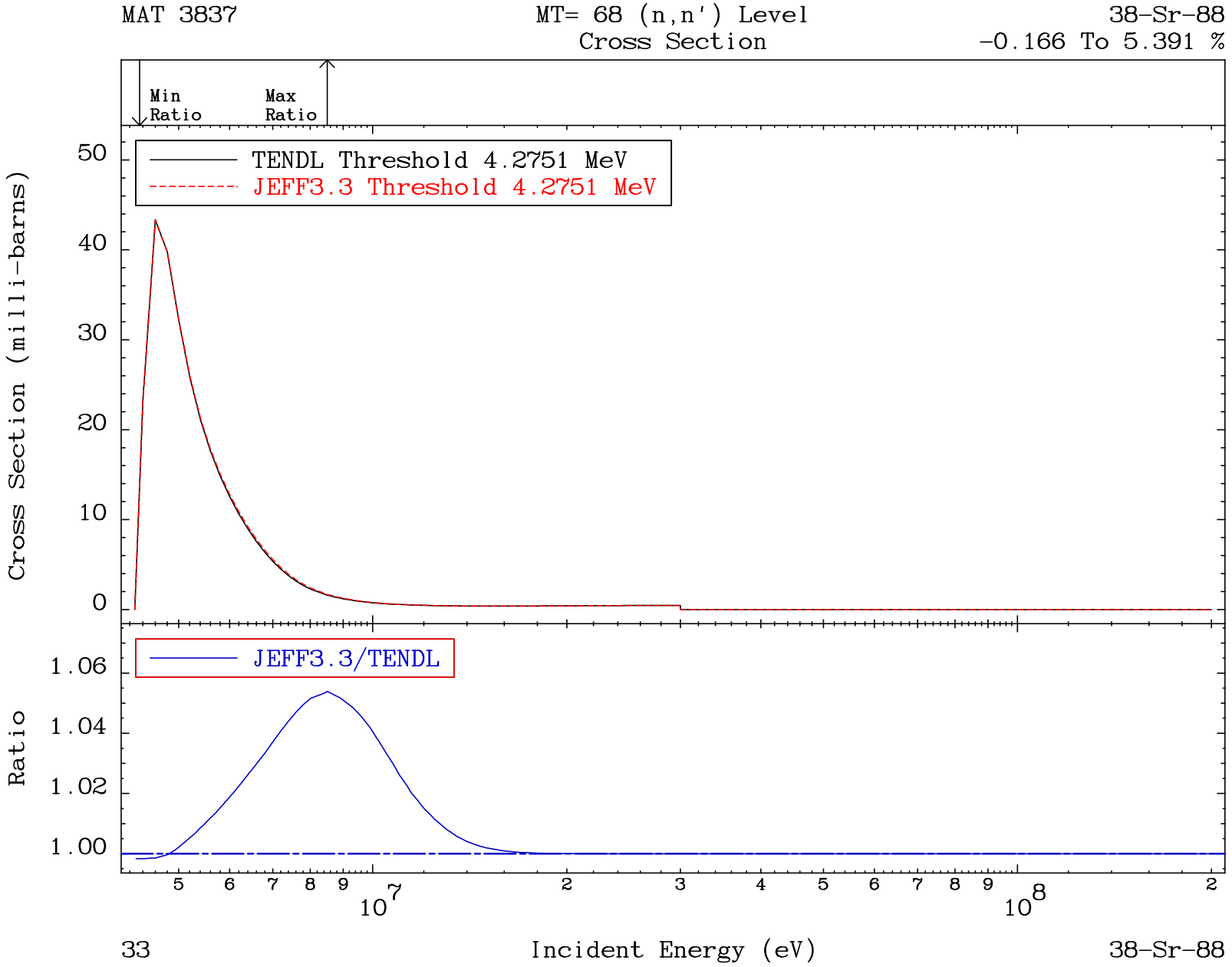

MAT 3837
MT= 63 (n,n') Level
Cross Section
38-Sr-88
-0.127 To 5.124 %
Min Ratio
Max Ratio
TENDL Threshold 4.0819 MeV
JEFF3.3 Threshold 4.0819 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
38-Sr-88

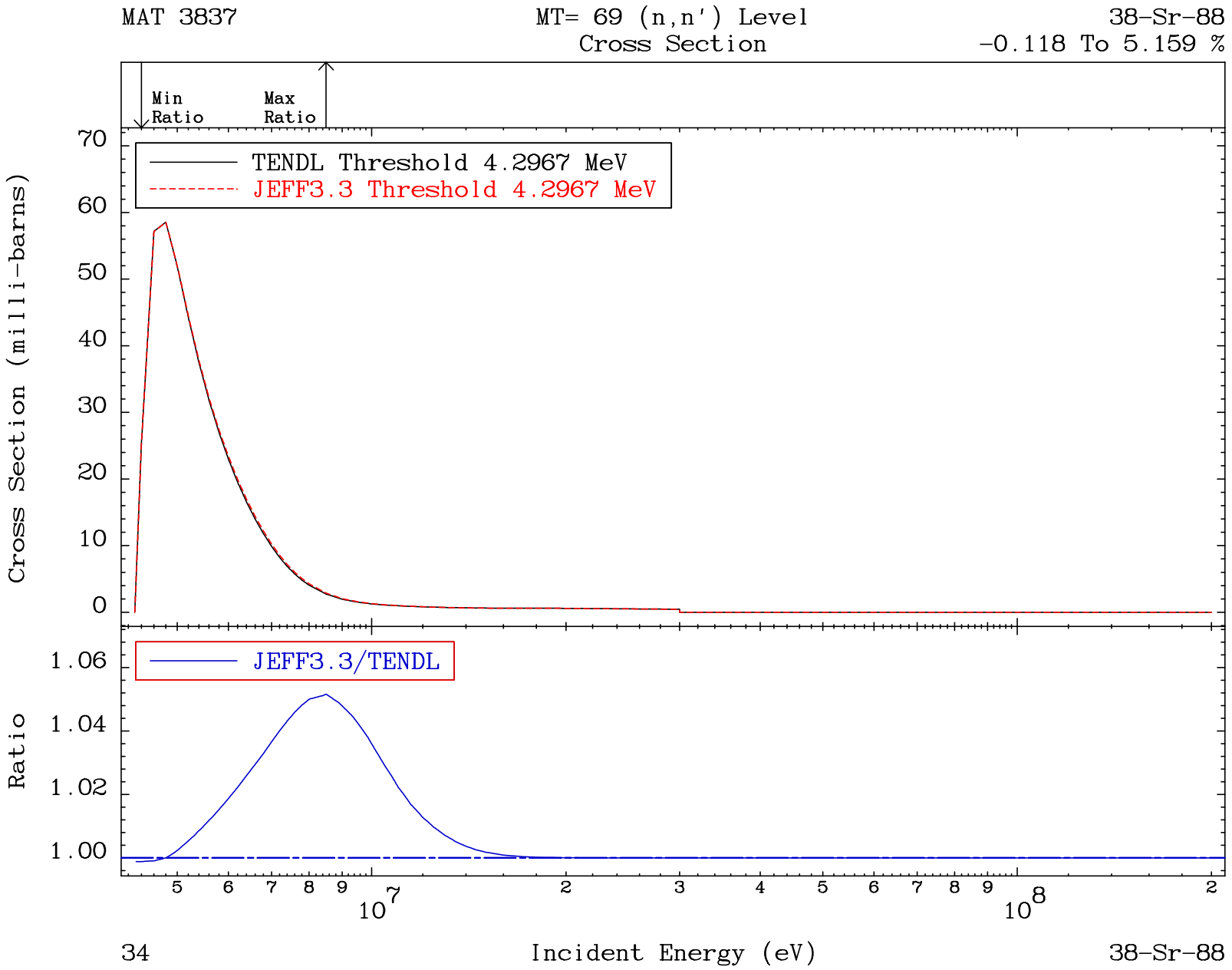

MAT 3837
MT= 64 (n,n') Level
Cross Section
38-Sr-88
-0.128 To 5.124 %
Min Ratio
Max Ratio
TENDL Threshold 4.0854 MeV
JEFF3.3 Threshold 4.0854 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
38-Sr-88

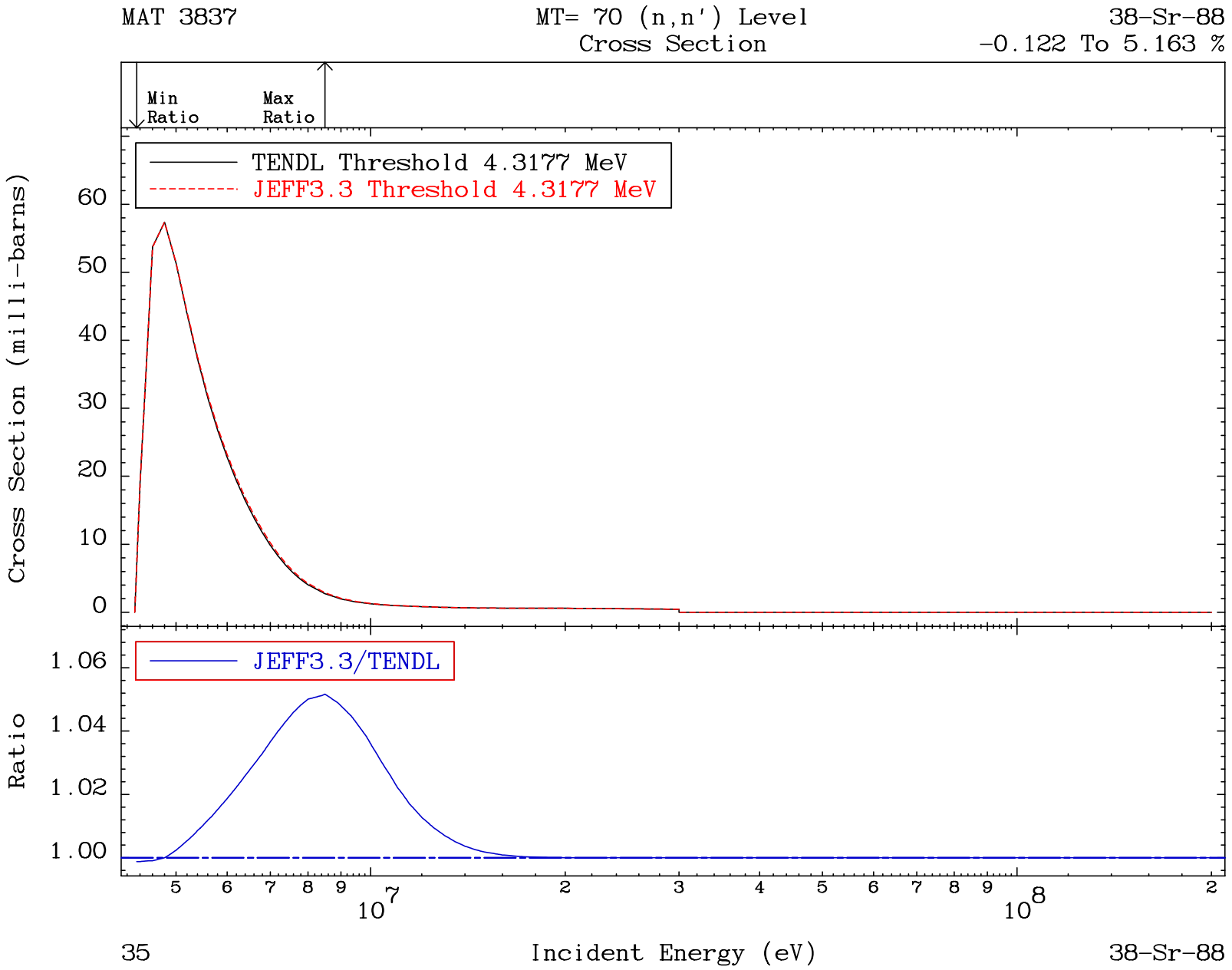

MAT 3837
MT= 65 (n,n') Level
Cross Section
38-Sr-88
-0.174 To 5.977 %
Min Ratio
Max Ratio
TENDL Threshold 4.2183 MeV
JEFF3.3 Threshold 4.2183 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
38-Sr-88

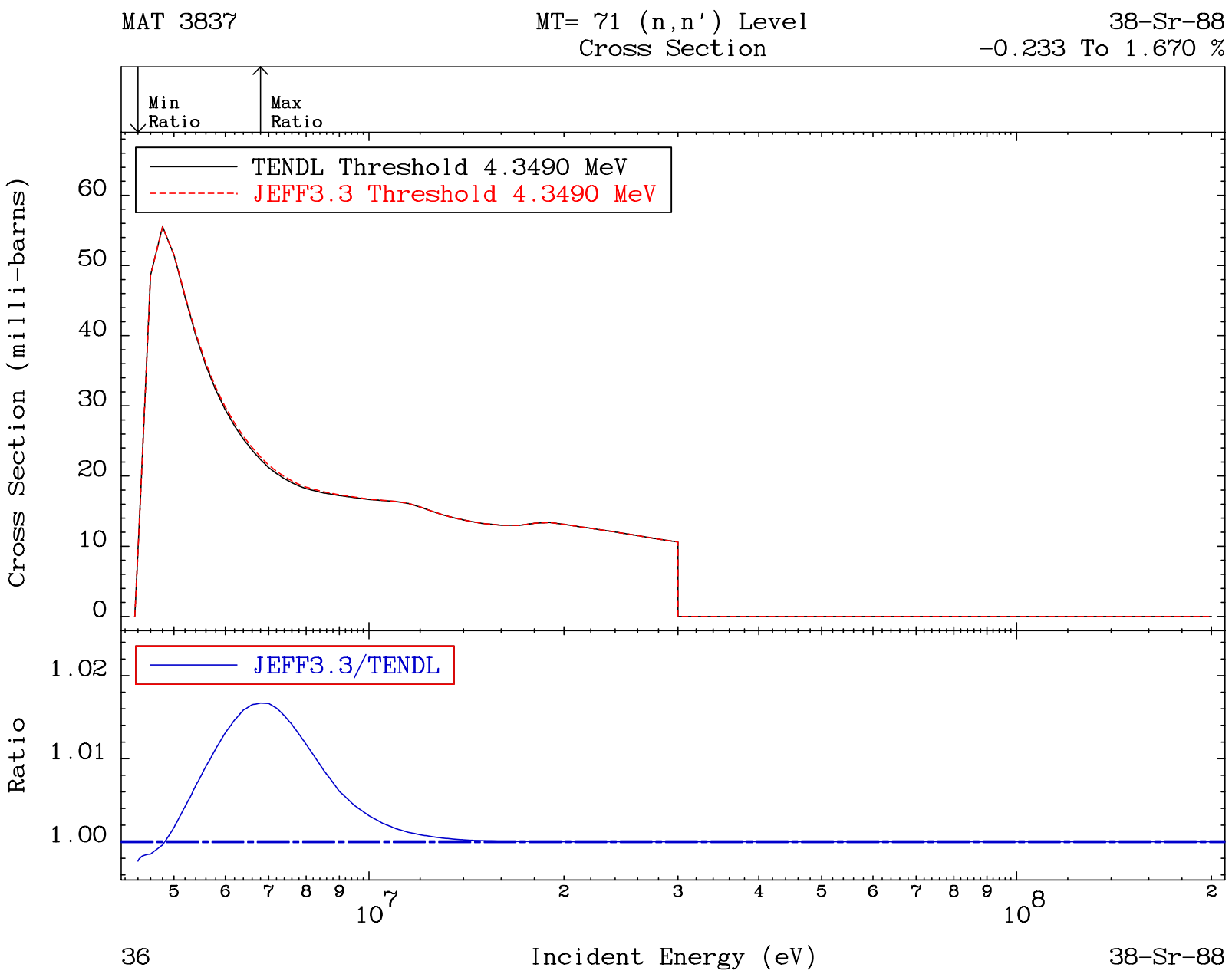

MAT 3837
MT= 66 (n,n') Level
Cross Section
38-Sr-88
-0.530 To 6.321 %
Min Ratio
Max Ratio
TENDL Threshold 4.2457 MeV
JEFF3.3 Threshold 4.2457 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.08
1.04
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
38-Sr-88

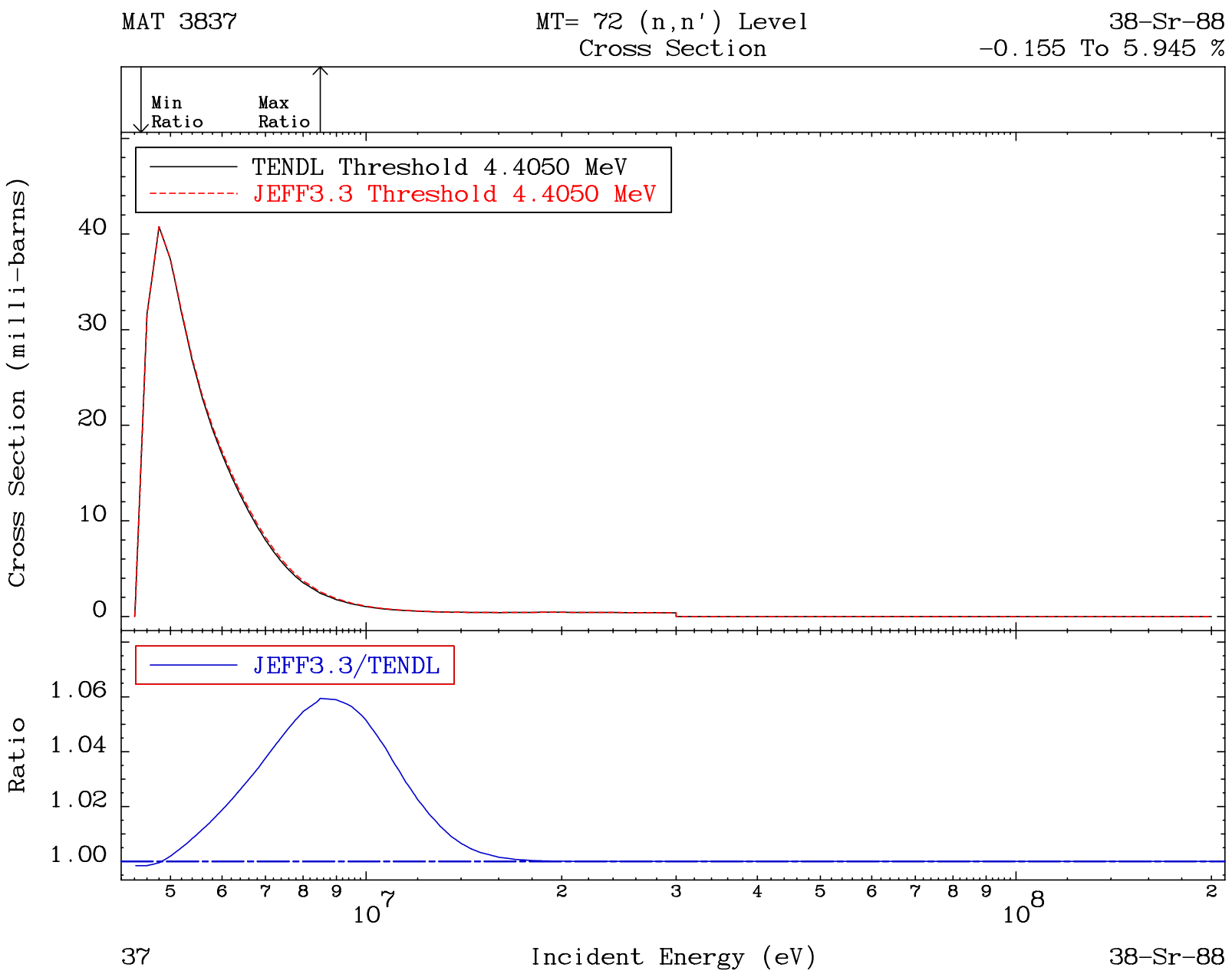

MAT 3837
MT= 67 (n,n') Level
Cross Section
38-Sr-88
-0.116 To 5.155 %
Min Ratio
Max Ratio
TENDL Threshold 4.2726 MeV
JEFF3.3 Threshold 4.2726 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
38-Sr-88

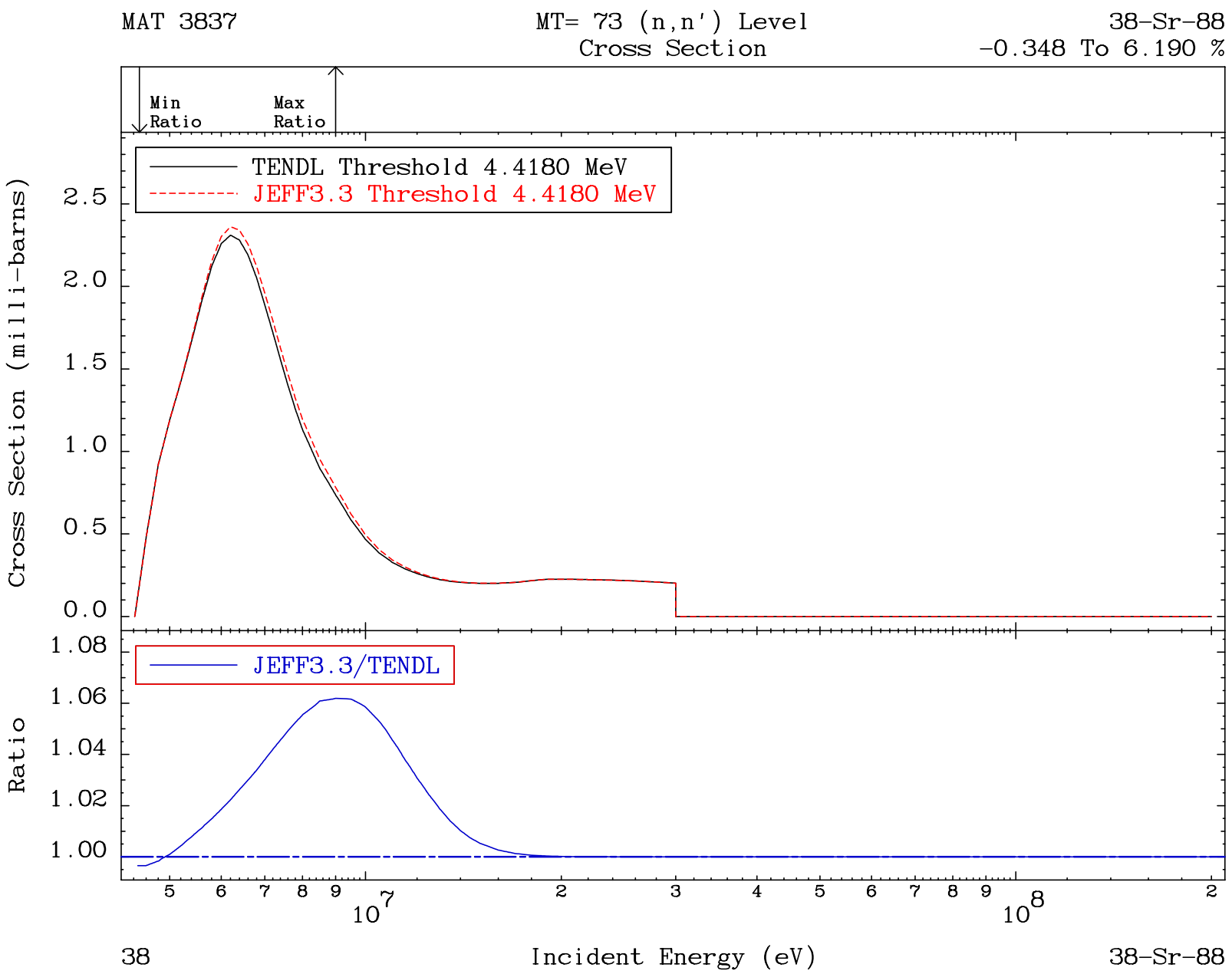

MAT 3837
MT= 68 (n,n') Level
Cross Section
38-Sr-88
-0.166 To 5.391 %
Min Ratio
Max Ratio
TENDL Threshold 4.2751 MeV
JEFF3.3 Threshold 4.2751 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
38-Sr-88

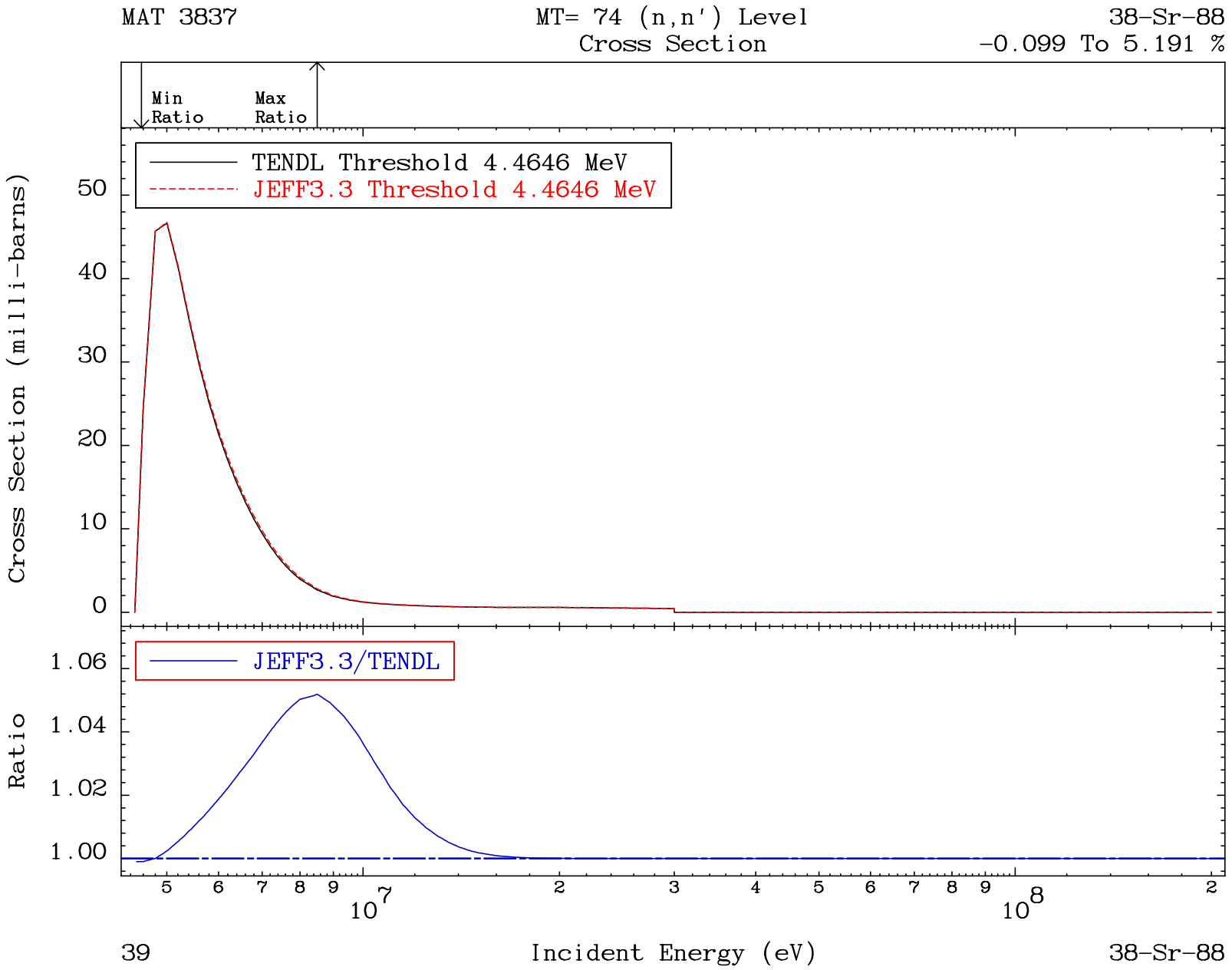

MAT 3837
MT= 69 (n,n') Level
Cross Section
38-Sr-88
-0.118 To 5.159 %
Min Ratio
Max Ratio
TENDL Threshold 4.2967 MeV
JEFF3.3 Threshold 4.2967 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
38-Sr-88

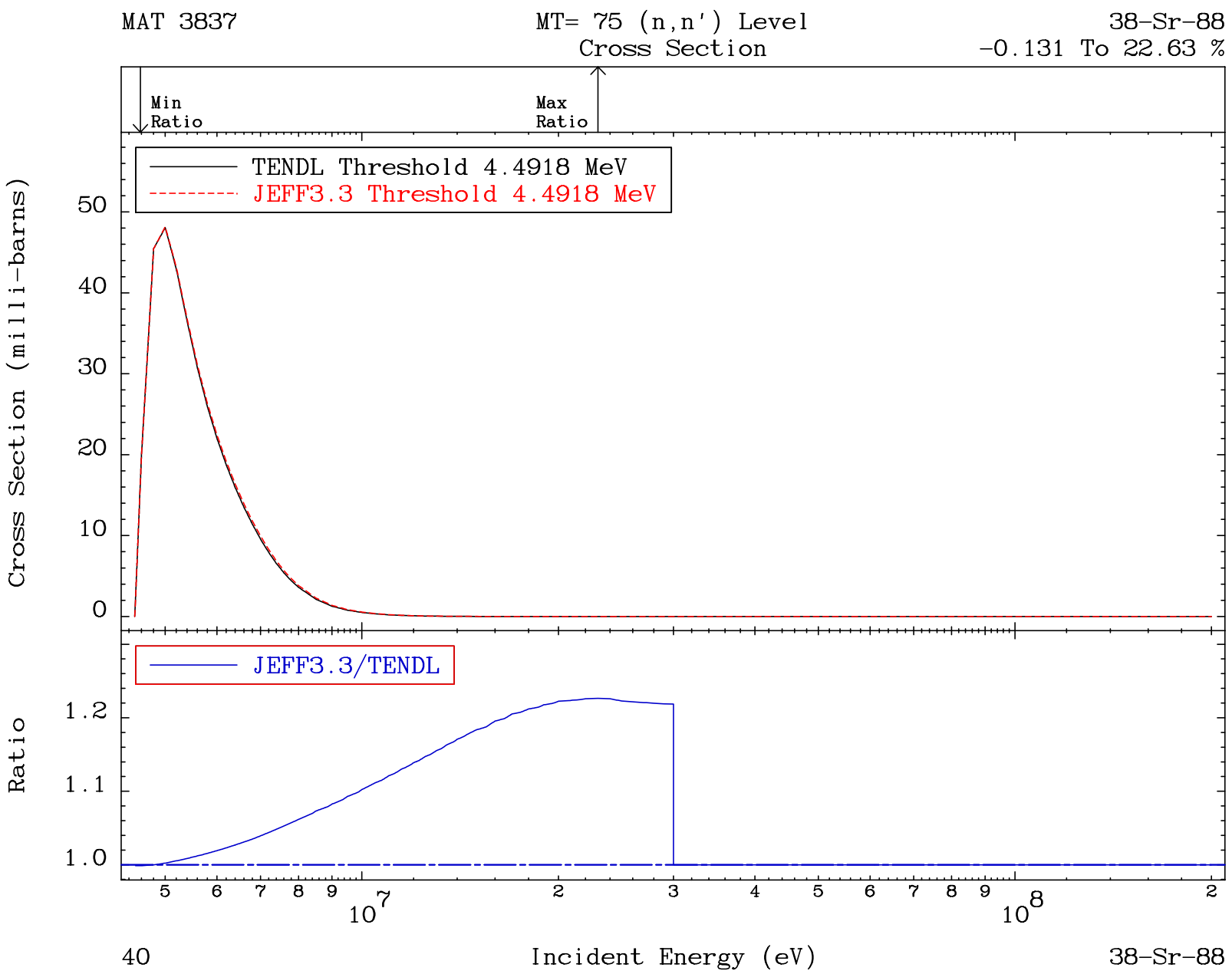

MAT 3837
MT= 70 (n,n') Level
Cross Section
38-Sr-88
-0.122 To 5.163 %
Min Ratio
Max Ratio
TENDL Threshold 4.3177 MeV
JEFF3.3 Threshold 4.3177 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
38-Sr-88

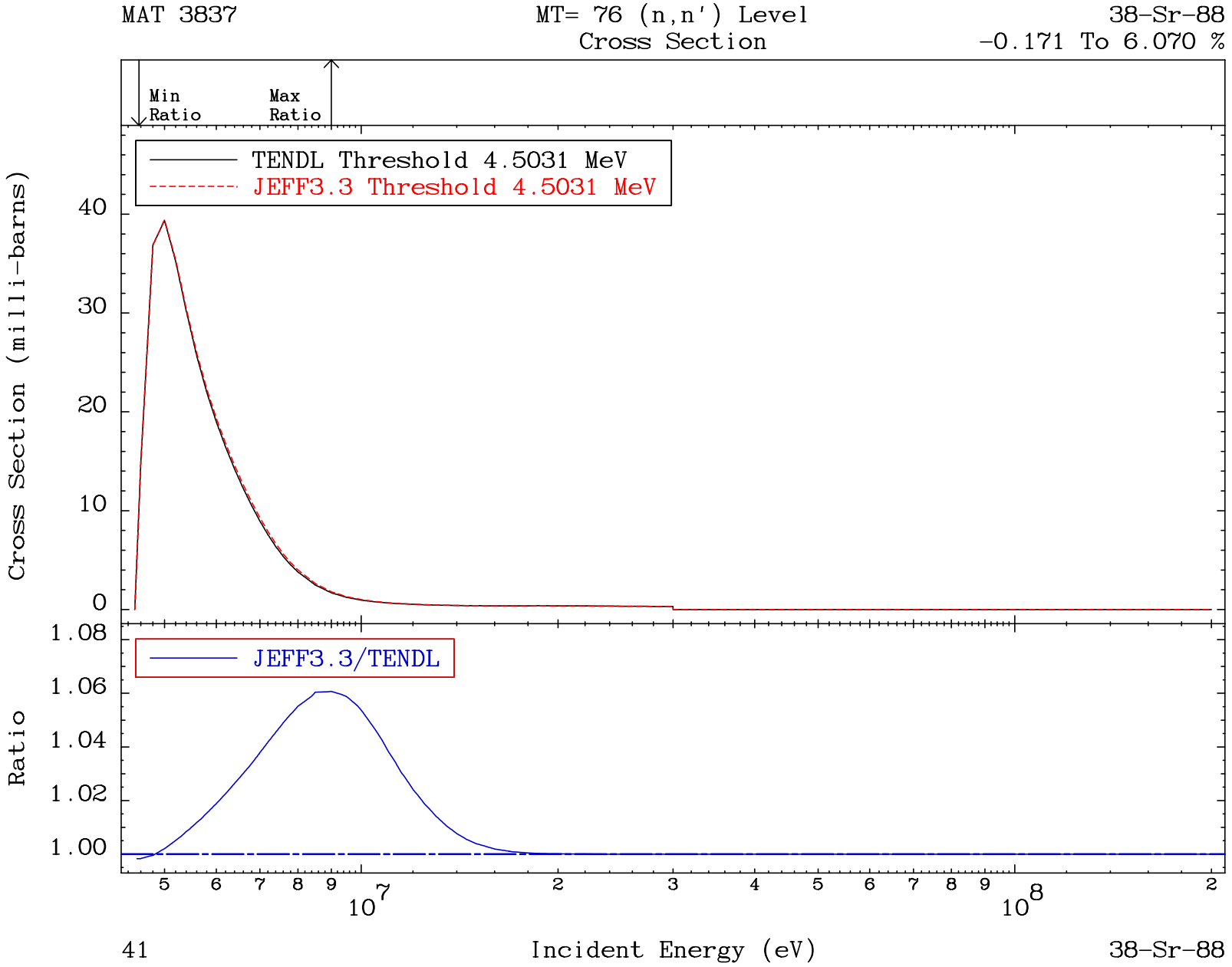

MAT 3837
MT= 71 (n,n') Level
Cross Section
38-Sr-88
-0.233 To 1.670 %
Min Ratio
Max Ratio
TENDL Threshold 4.3490 MeV
JEFF3.3 Threshold 4.3490 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
38-Sr-88

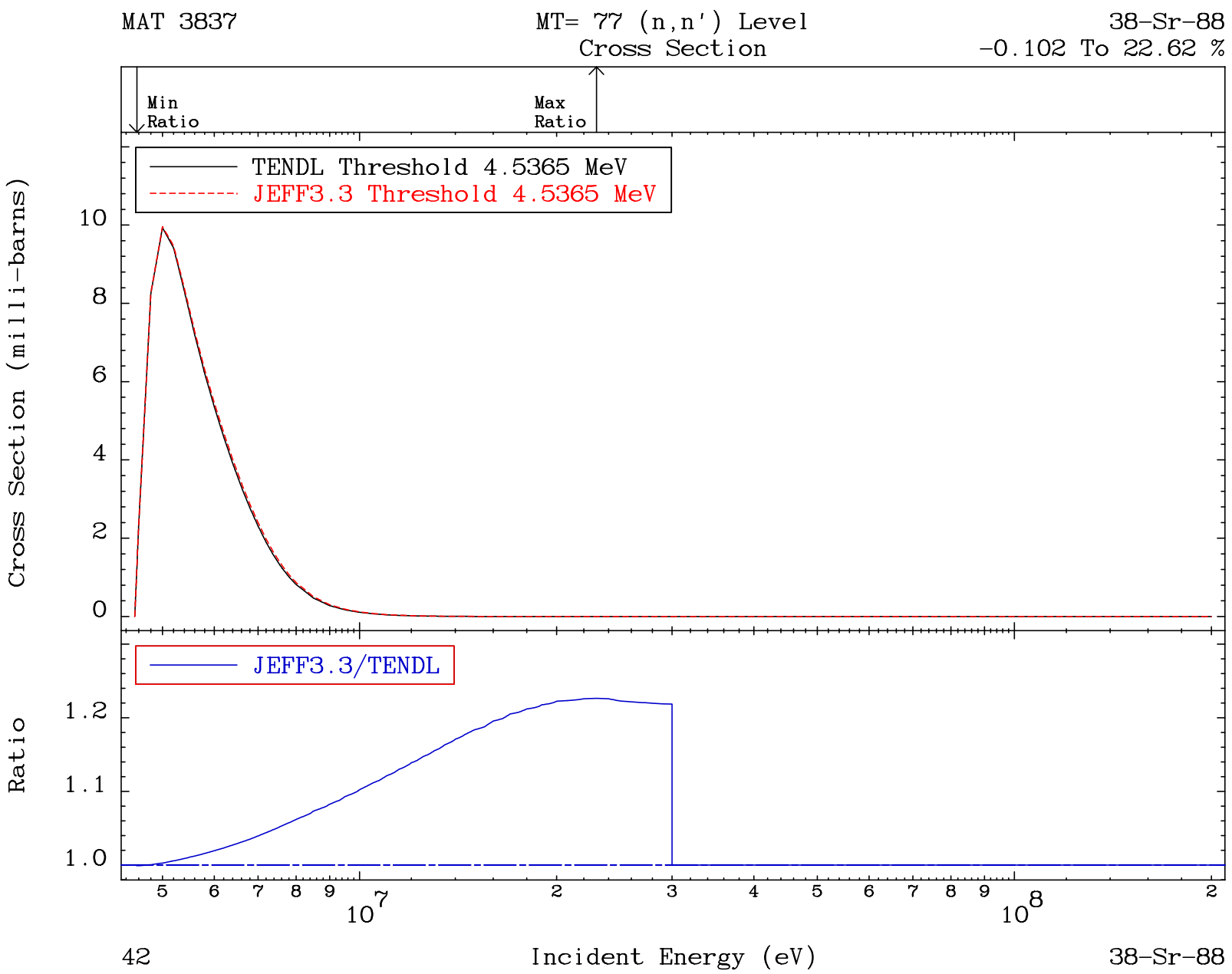

MAT 3837
MT= 72 (n,n') Level
Cross Section
38-Sr-88
-0.155 To 5.945 %
Min Ratio
Max Ratio
TENDL Threshold 4.4050 MeV
JEFF3.3 Threshold 4.4050 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
38-Sr-88

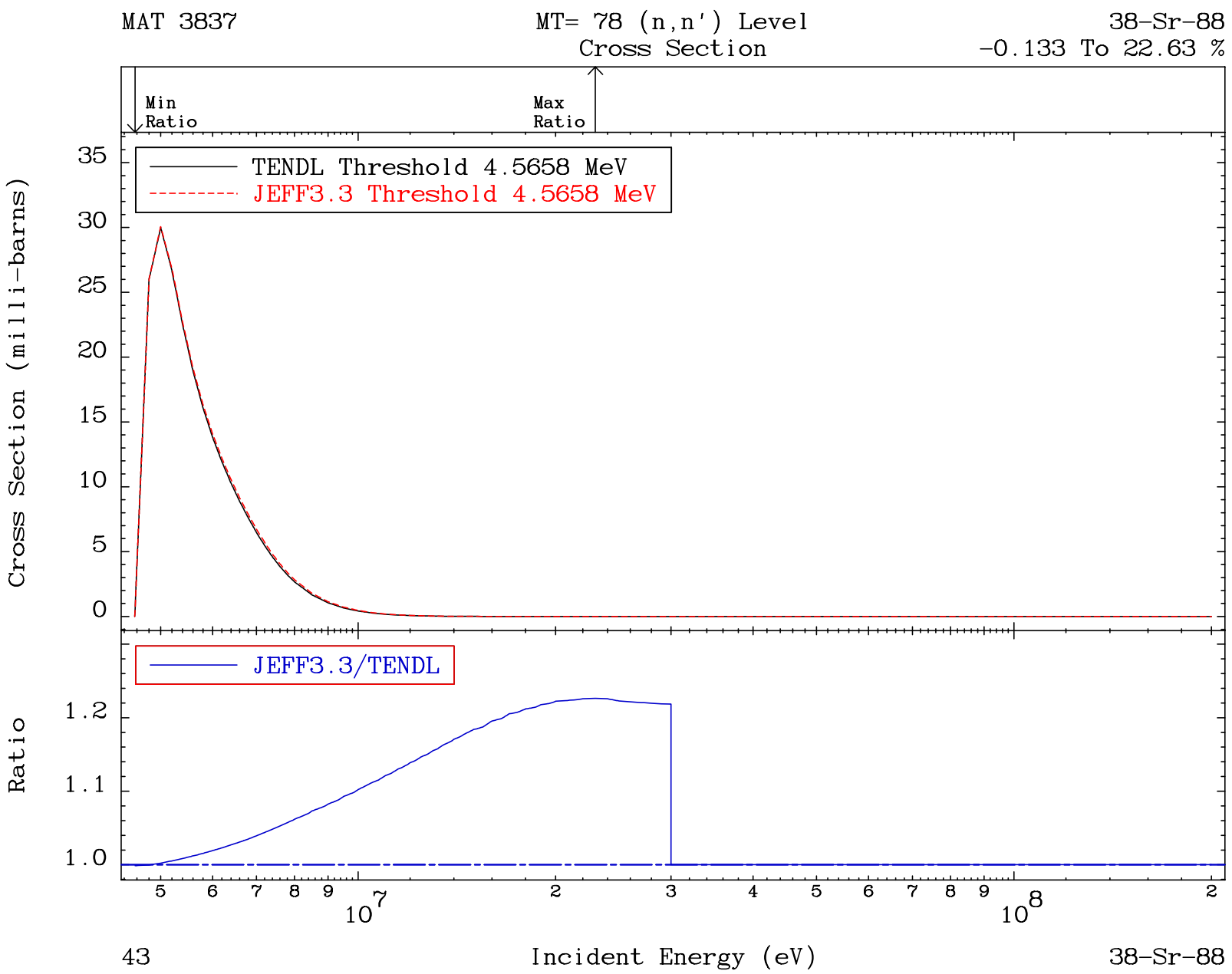

MAT 3837
MT= 73 (n,n') Level
Cross Section
38-Sr-88
-0.348 To 6.190 %
Min Ratio
Max Ratio
TENDL Threshold 4.4180 MeV
JEFF3.3 Threshold 4.4180 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.08
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
38-Sr-88

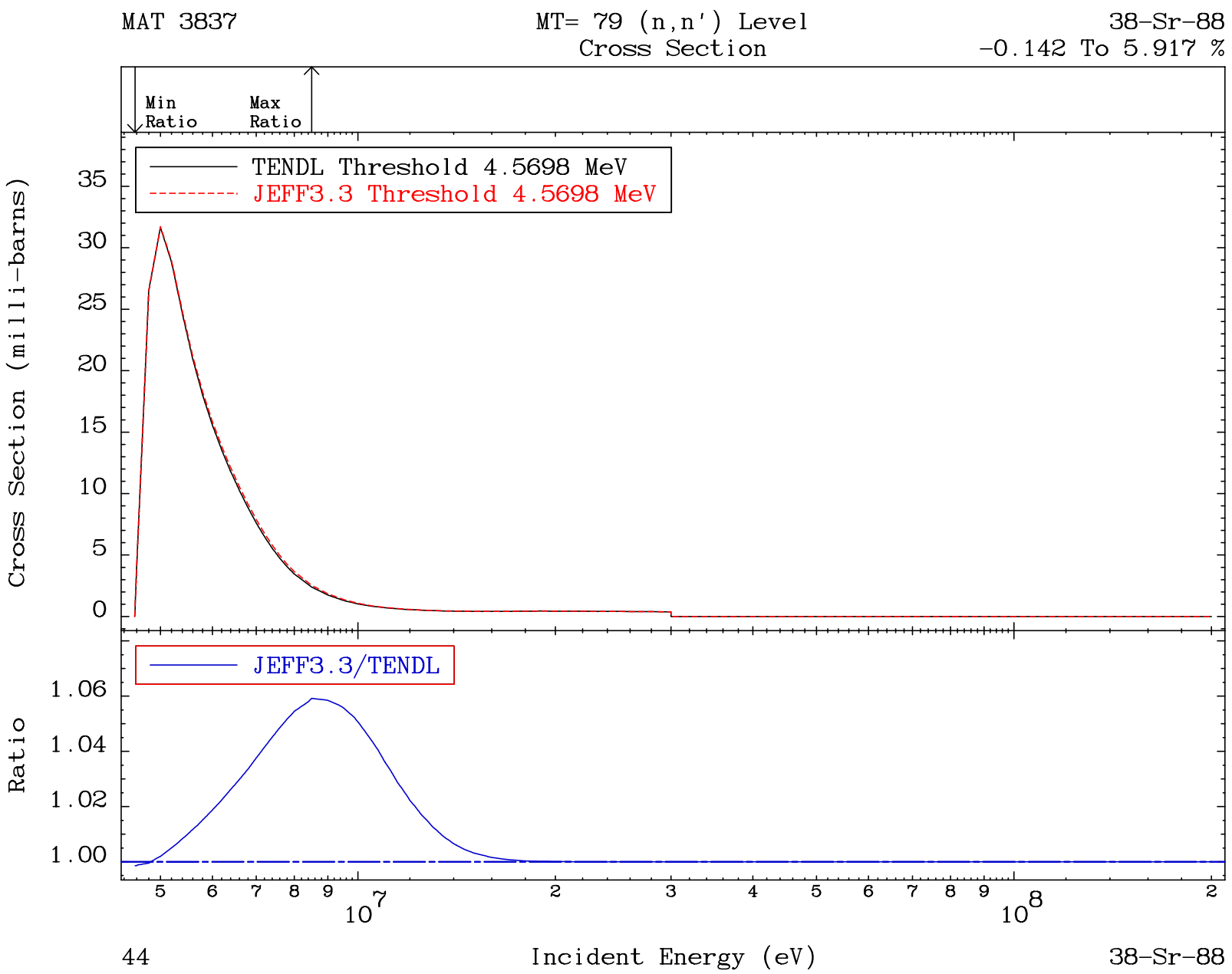

MAT 3837
MT= 74 (n,n') Level
Cross Section
38-Sr-88
-0.099 To 5.191 %
Min Ratio
Max Ratio
TENDL Threshold 4.4646 MeV
JEFF3.3 Threshold 4.4646 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
38-Sr-88

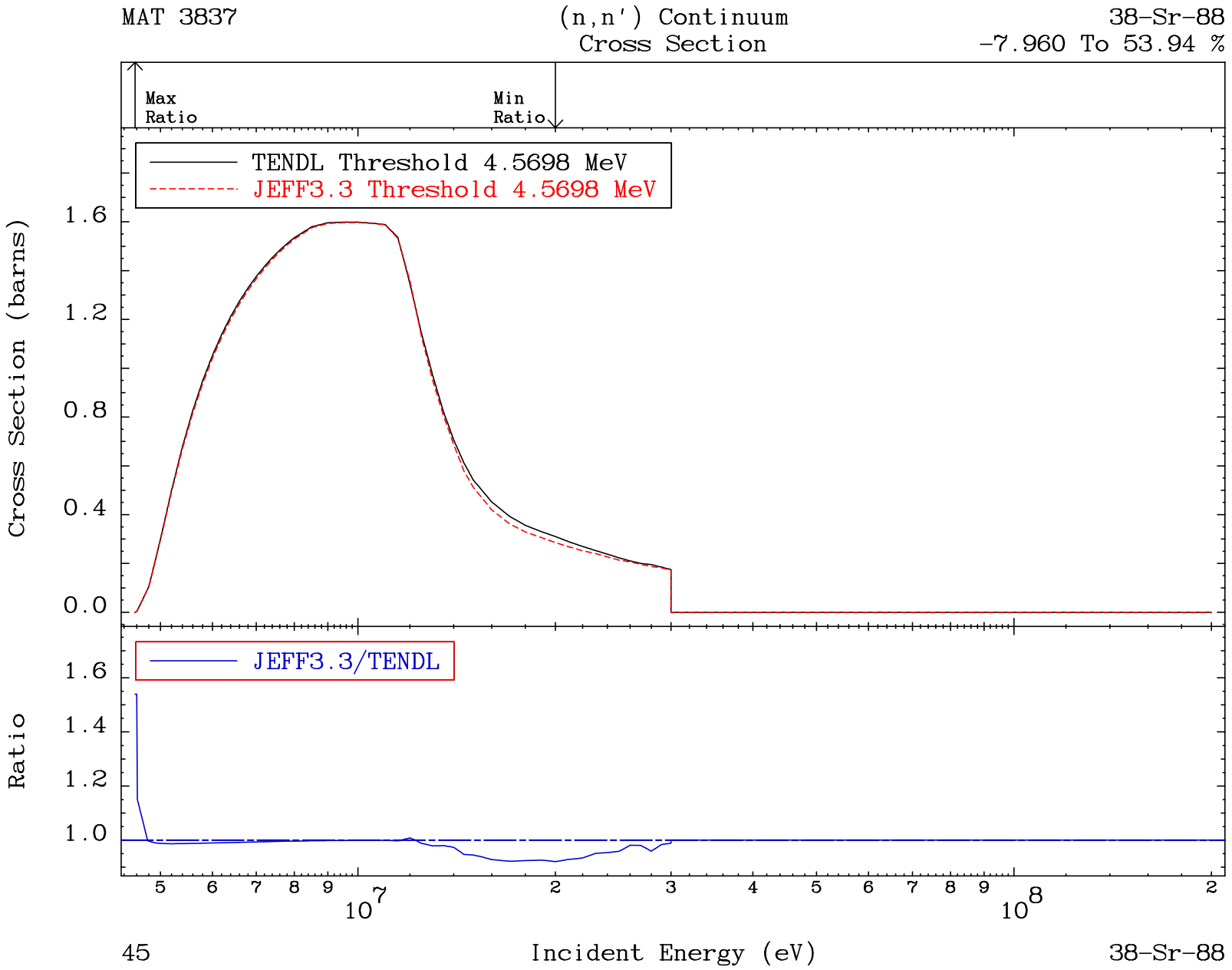

MAT 3837
MT= 75 (n,n') Level
Cross Section
38-Sr-88
-0.131 To 22.63 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.4918 MeV
JEFF3.3 Threshold 4.4918 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
40
Incident Energy (eV)
38-Sr-88

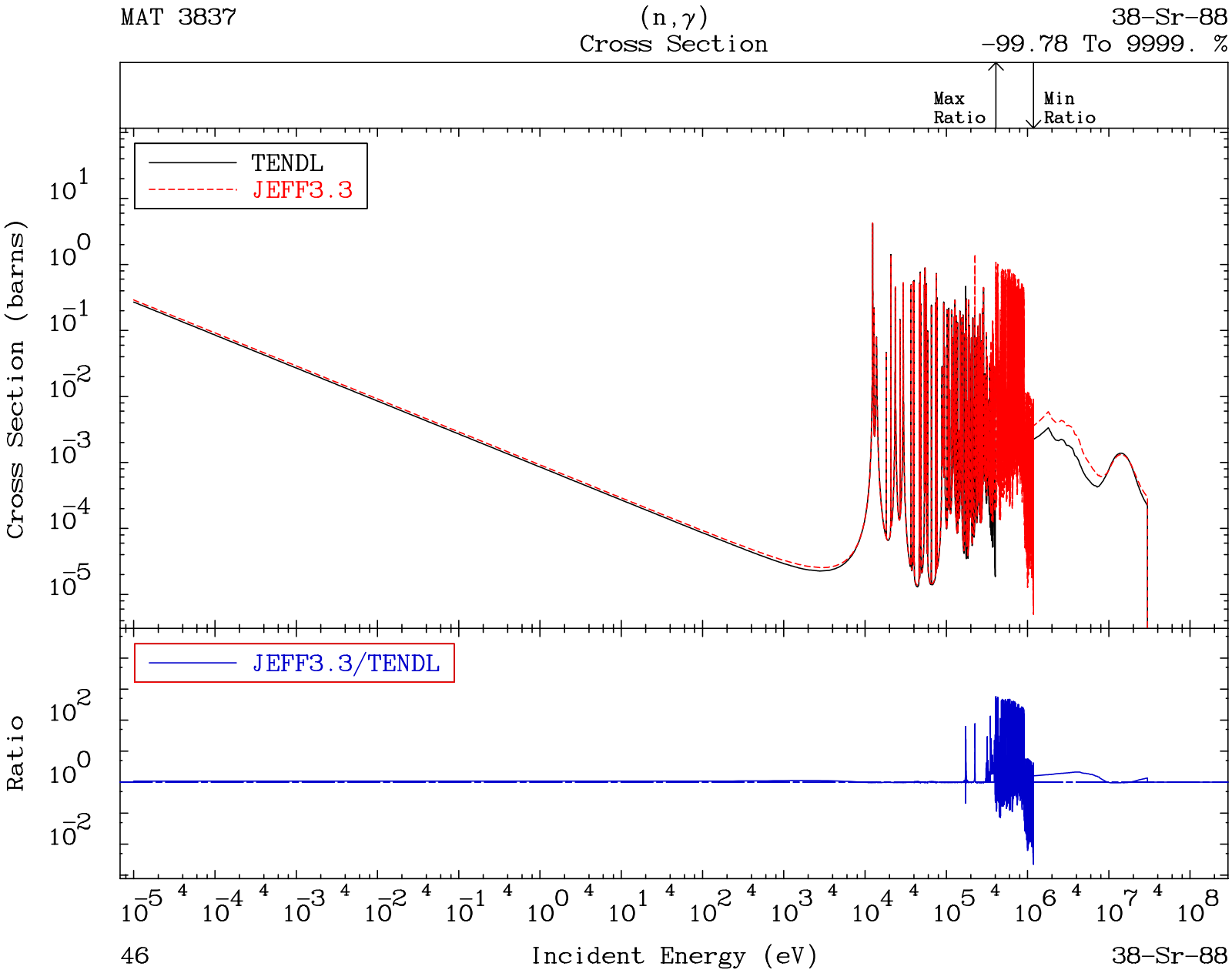

MAT 3837
MT= 76 (n,n') Level
Cross Section
38-Sr-88
-0.171 To 6.070 %
Min Ratio
Max Ratio
TENDL Threshold 4.5031 MeV
JEFF3.3 Threshold 4.5031 MeV
Cross Section (milli-barns)
0
10
20
30
40
JEFF3.3/TENDL
Ratio
1.00
1.02
1.04
1.06
1.08
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
38-Sr-88

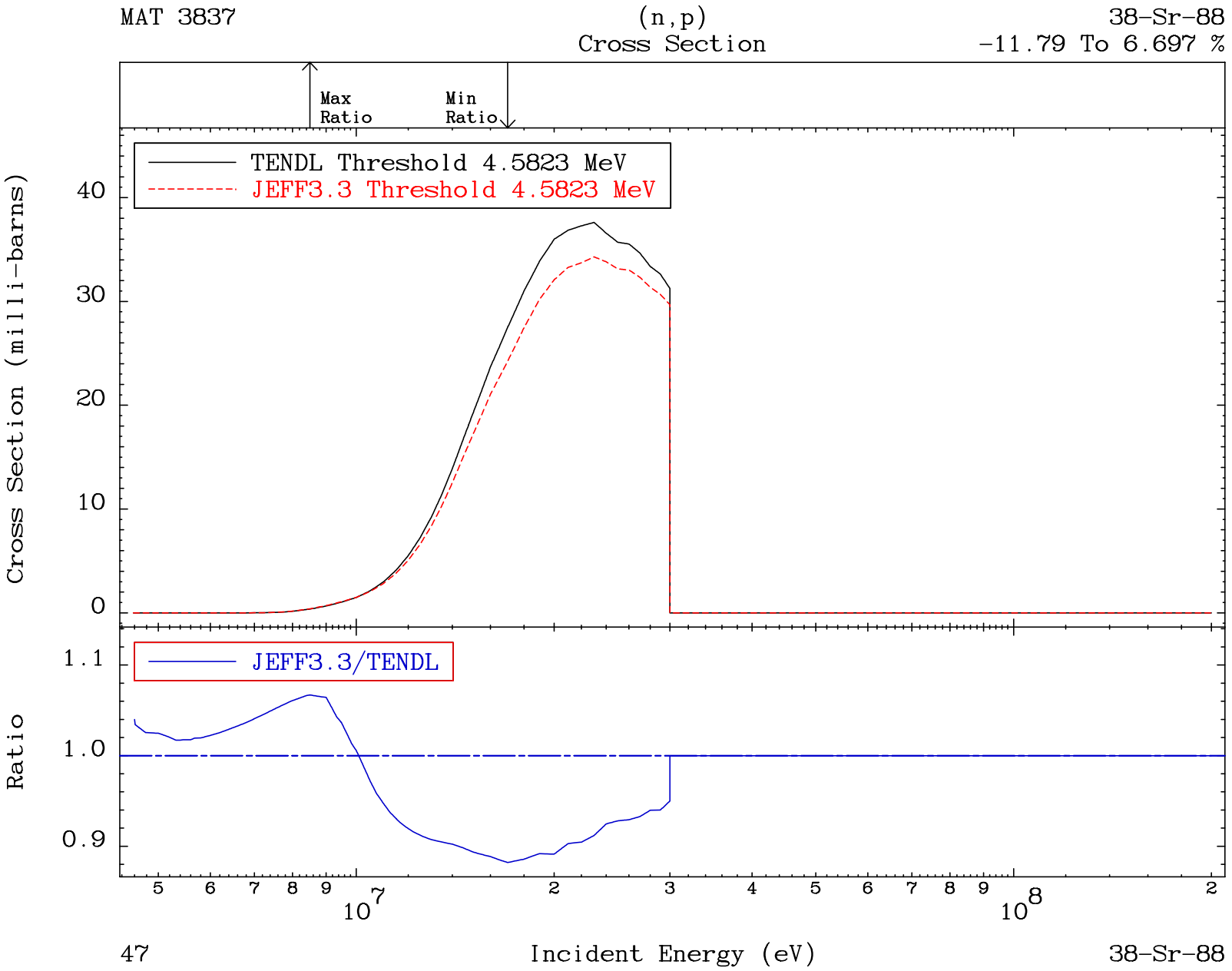

MAT 3837
MT= 77 (n,n') Level
Cross Section
38-Sr-88
-0.102 To 22.62 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.5365 MeV
JEFF3.3 Threshold 4.5365 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
42
Incident Energy (eV)
38-Sr-88

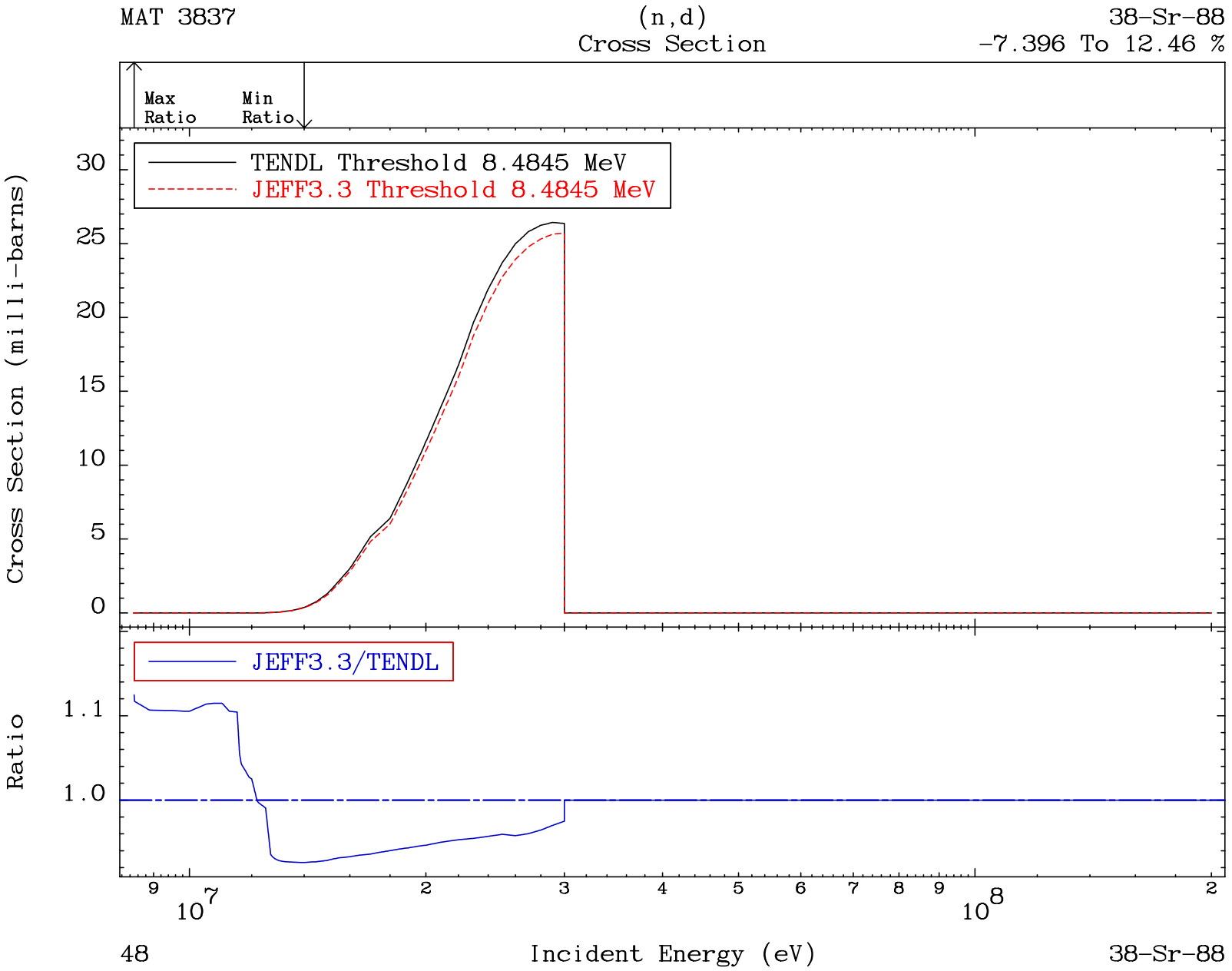

MAT 3837
MT= 78 (n,n') Level
Cross Section
38-Sr-88
-0.133 To 22.63 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.5658 MeV
JEFF3.3 Threshold 4.5658 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
43
Incident Energy (eV)
38-Sr-88

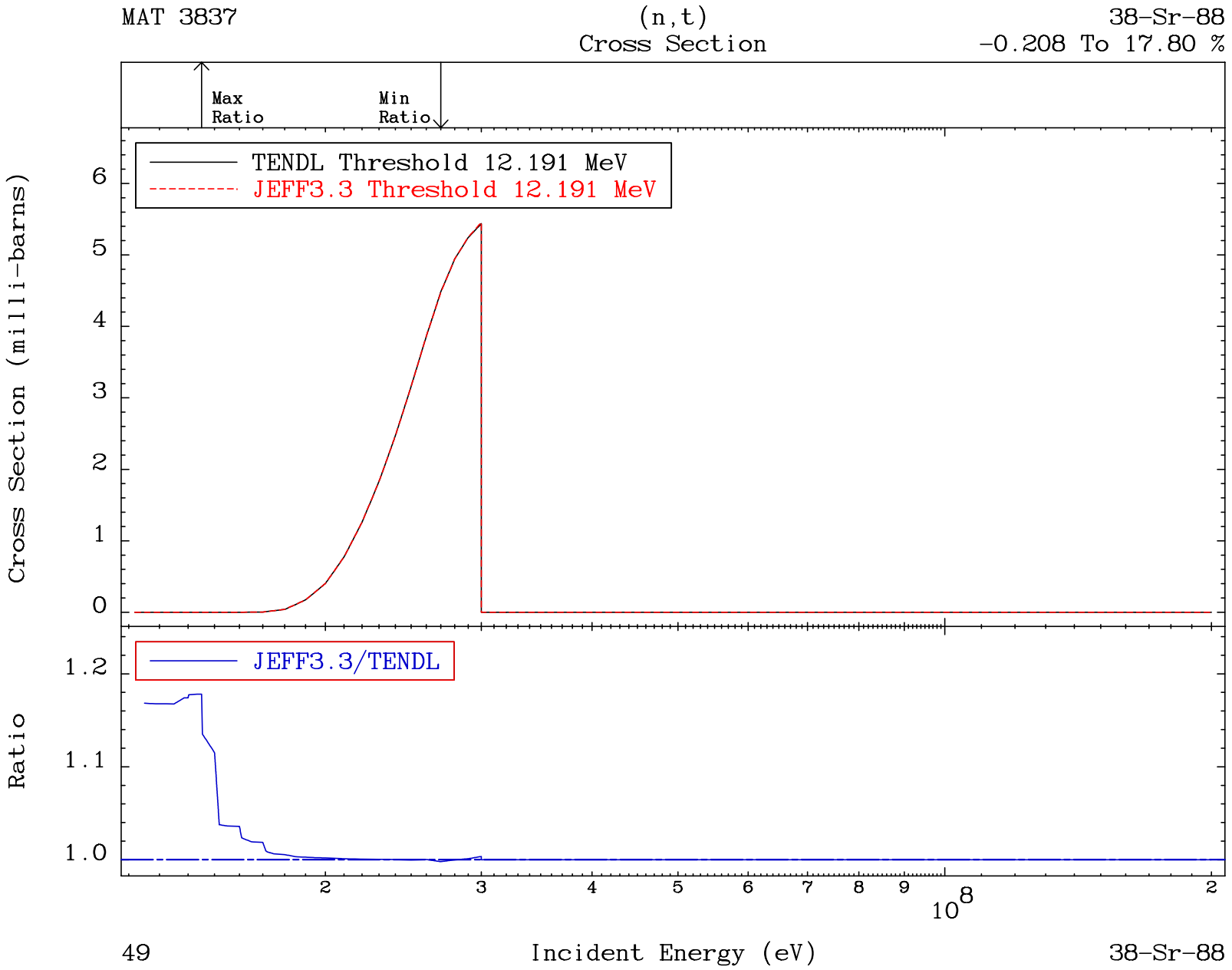

MAT 3837
MT= 79 (n,n') Level
Cross Section
38-Sr-88
-0.142 To 5.917 %
Min Ratio
Max Ratio
TENDL Threshold 4.5698 MeV
JEFF3.3 Threshold 4.5698 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.06
1.04
1.02
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
38-Sr-88

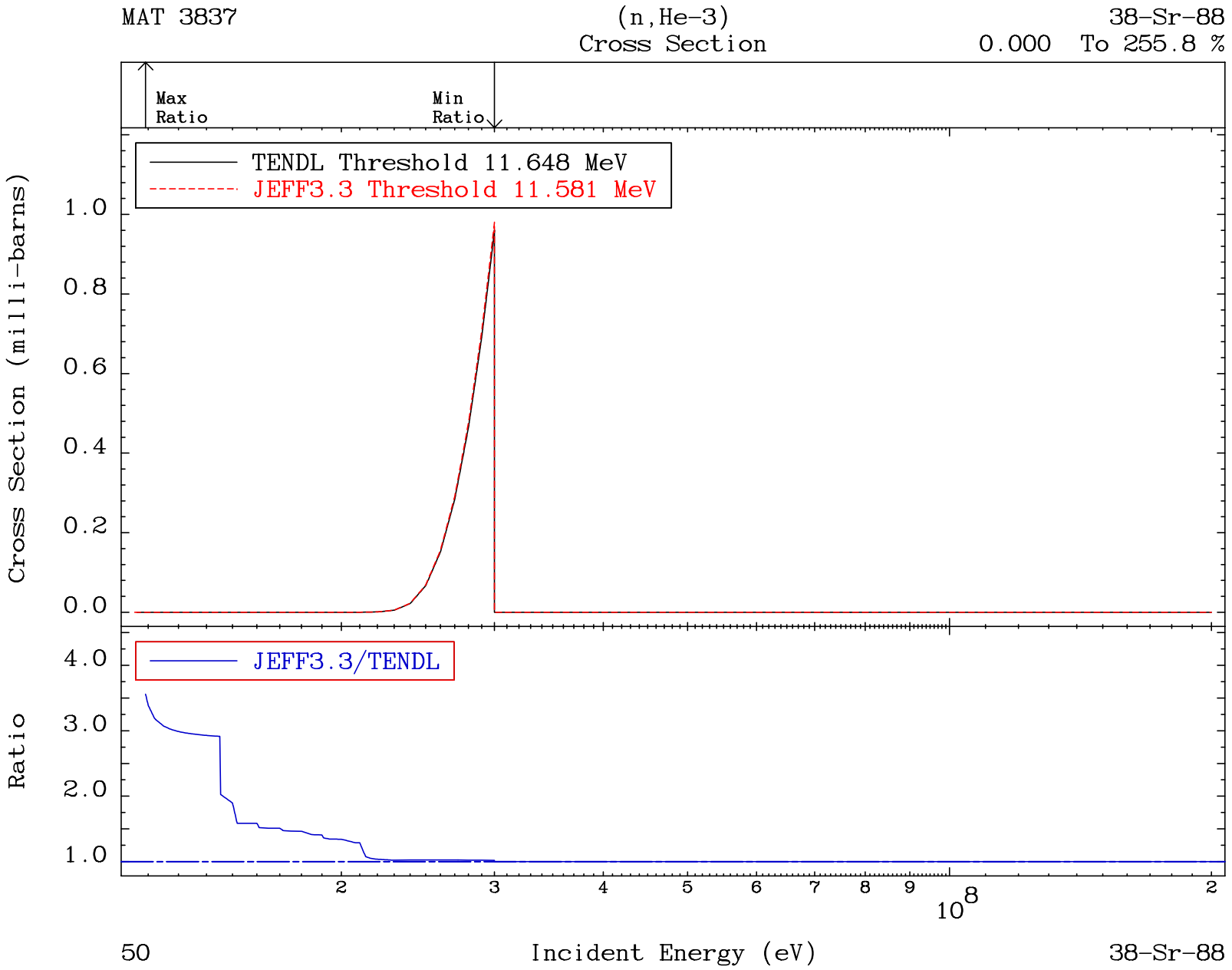

MAT 3837
(n,n') Continuum
Cross Section
38-Sr-88
-7.960 To 53.94 %
Max Ratio
Min Ratio
TENDL Threshold 4.5698 MeV
JEFF3.3 Threshold 4.5698 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
1.6
1.4
1.2
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
38-Sr-88

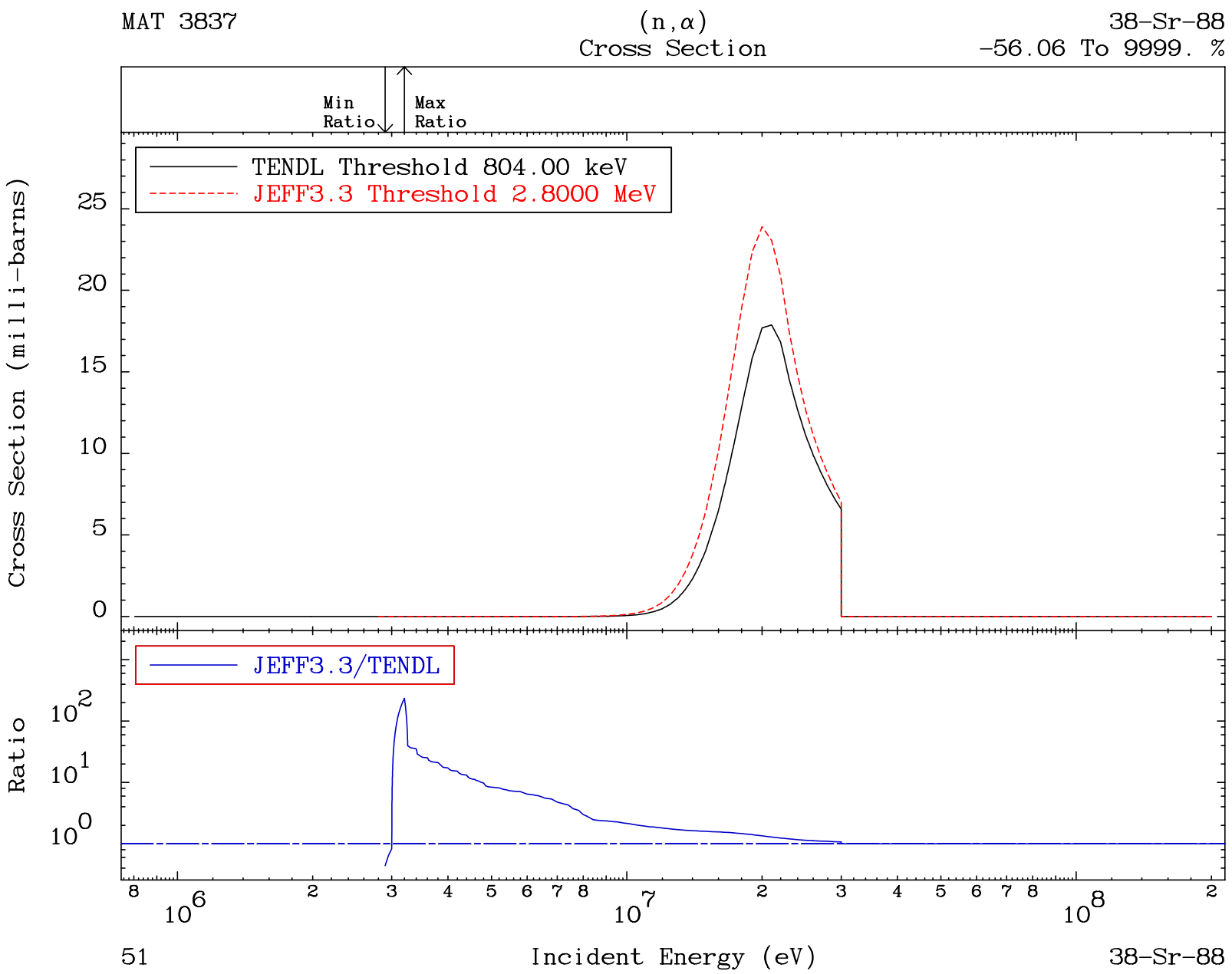

MAT 3837
(n,γ)
Cross Section
38-Sr-88
-99.78 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
46
38-Sr-88

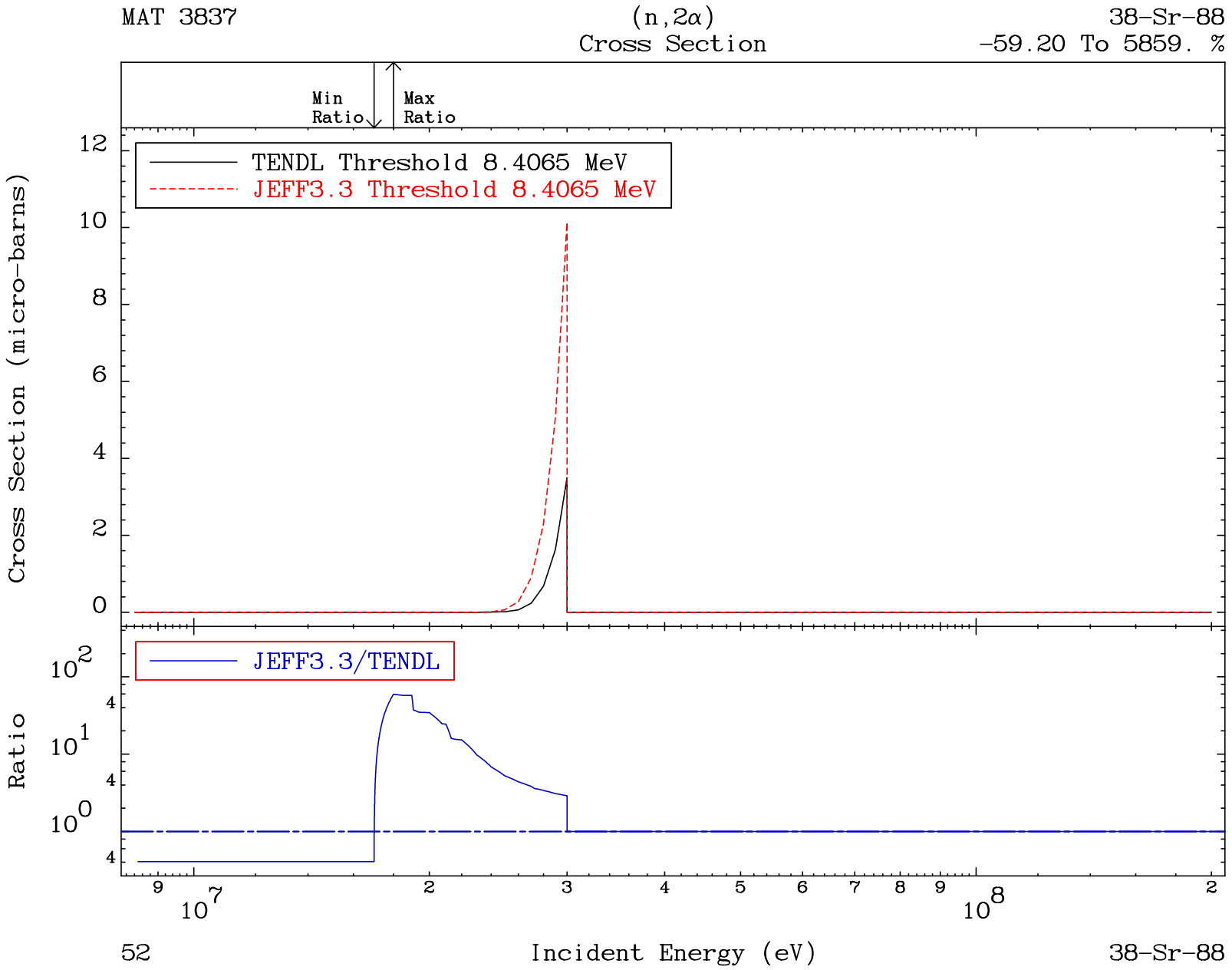

MAT 3837
(n,p)
Cross Section
38-Sr-88
-11.79 To 6.697 %
Max Ratio
Min Ratio
TENDL Threshold 4.5823 MeV
JEFF3.3 Threshold 4.5823 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
38-Sr-88

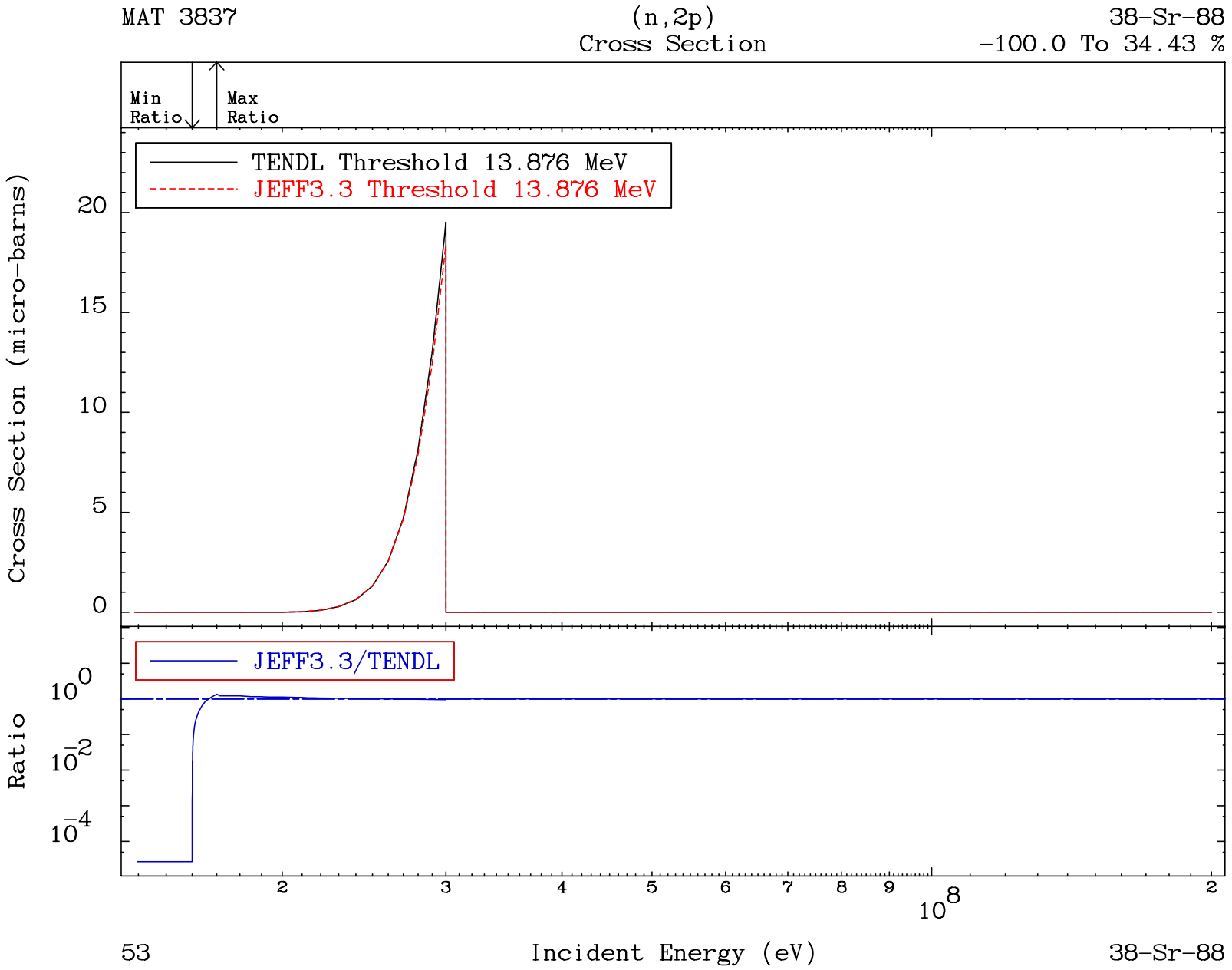

MAT 3837
(n,d)
Cross Section
38-Sr-88
-7.396 To 12.46 %
Max Ratio
Min Ratio
TENDL Threshold 8.4845 MeV
JEFF3.3 Threshold 8.4845 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.1
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
38-Sr-88

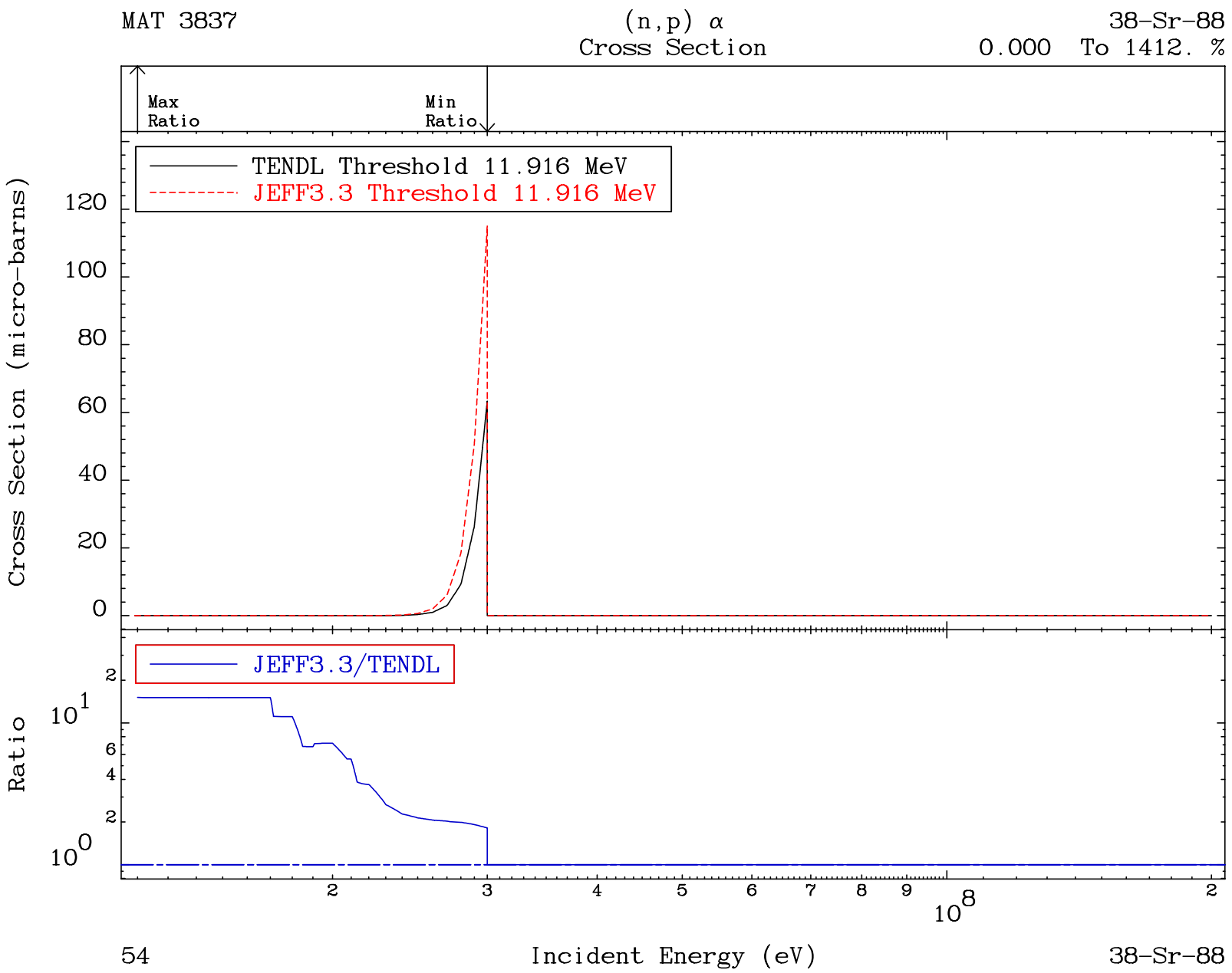

MAT 3837
(n,t)
Cross Section
38-Sr-88
-0.208 To 17.80 %
Max Ratio
Min Ratio
TENDL Threshold 12.191 MeV
JEFF3.3 Threshold 12.191 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
1.0
1.1
1.2
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
38-Sr-88

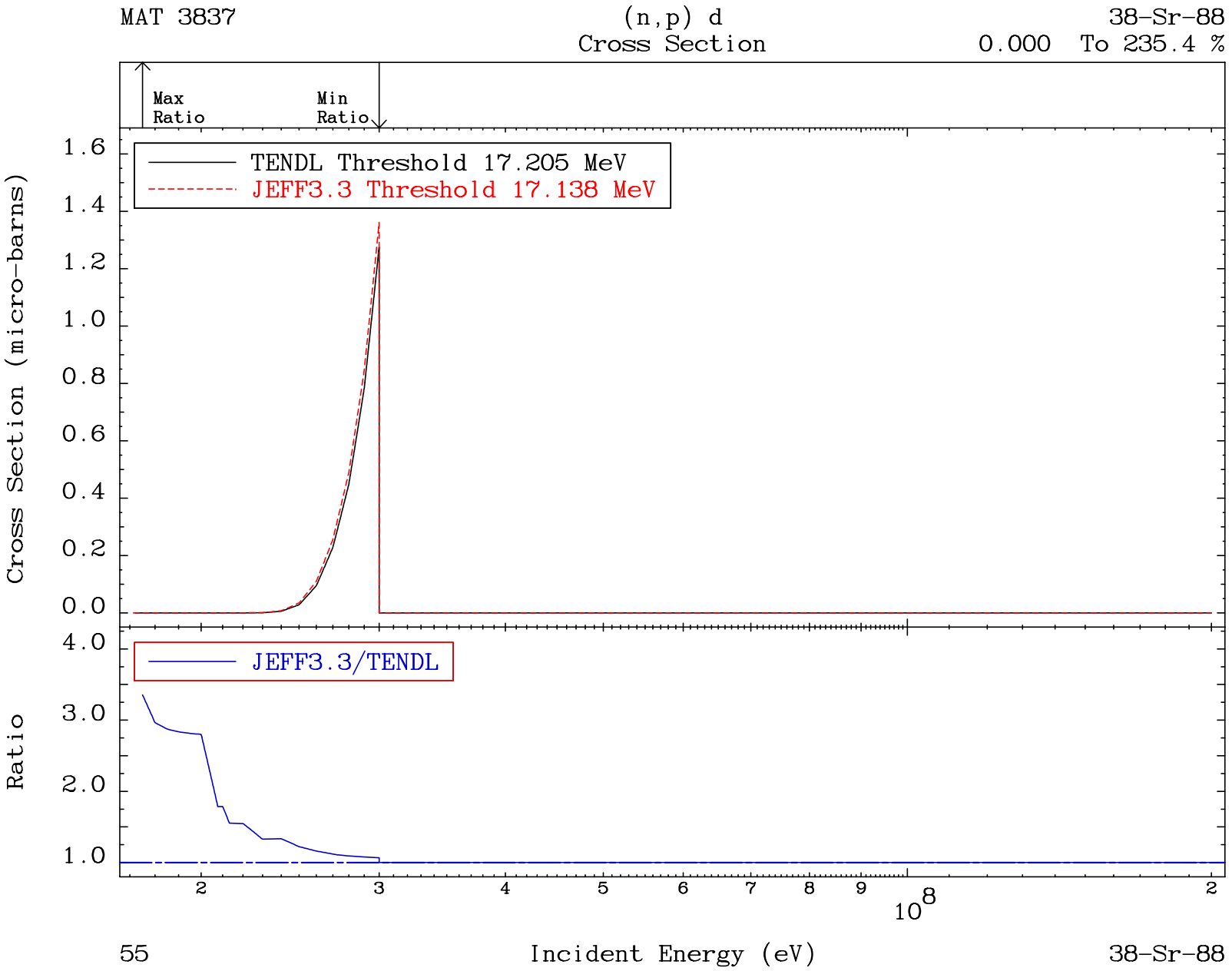

MAT 3837
(n,He-3)
Cross Section
38-Sr-88
0.000 To 255.8 %
Max Ratio
Min Ratio
TENDL Threshold 11.648 MeV
JEFF3.3 Threshold 11.581 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
38-Sr-88

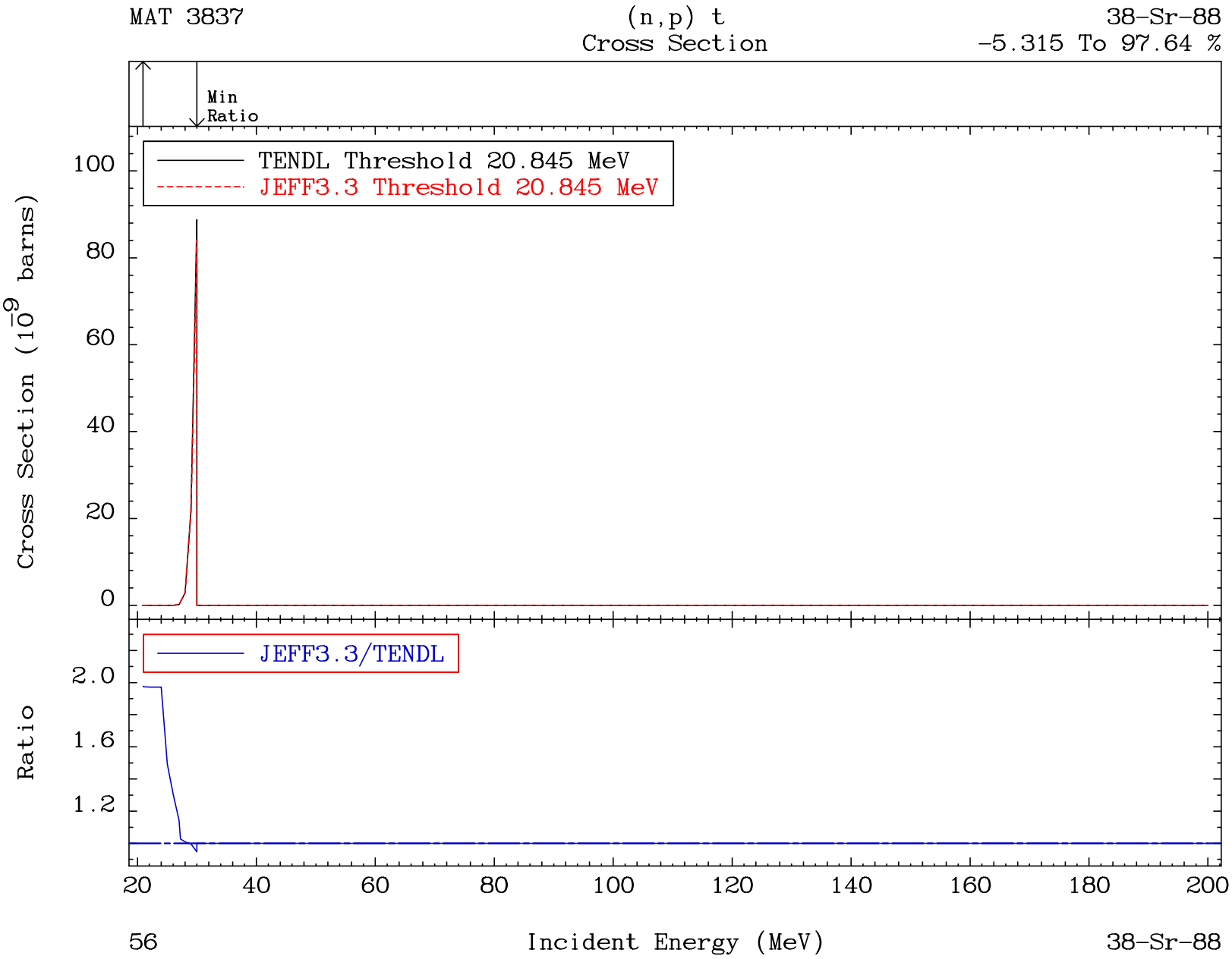

MAT 3837
(n,α)
Cross Section
38-Sr-88
-56.06 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 804.00 keV
JEFF3.3 Threshold 2.8000 MeV
Cross Section (milli-barns)
0
5
10
15
20
25
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^6
10^7
10^8
Incident Energy (eV)
51
38-Sr-88

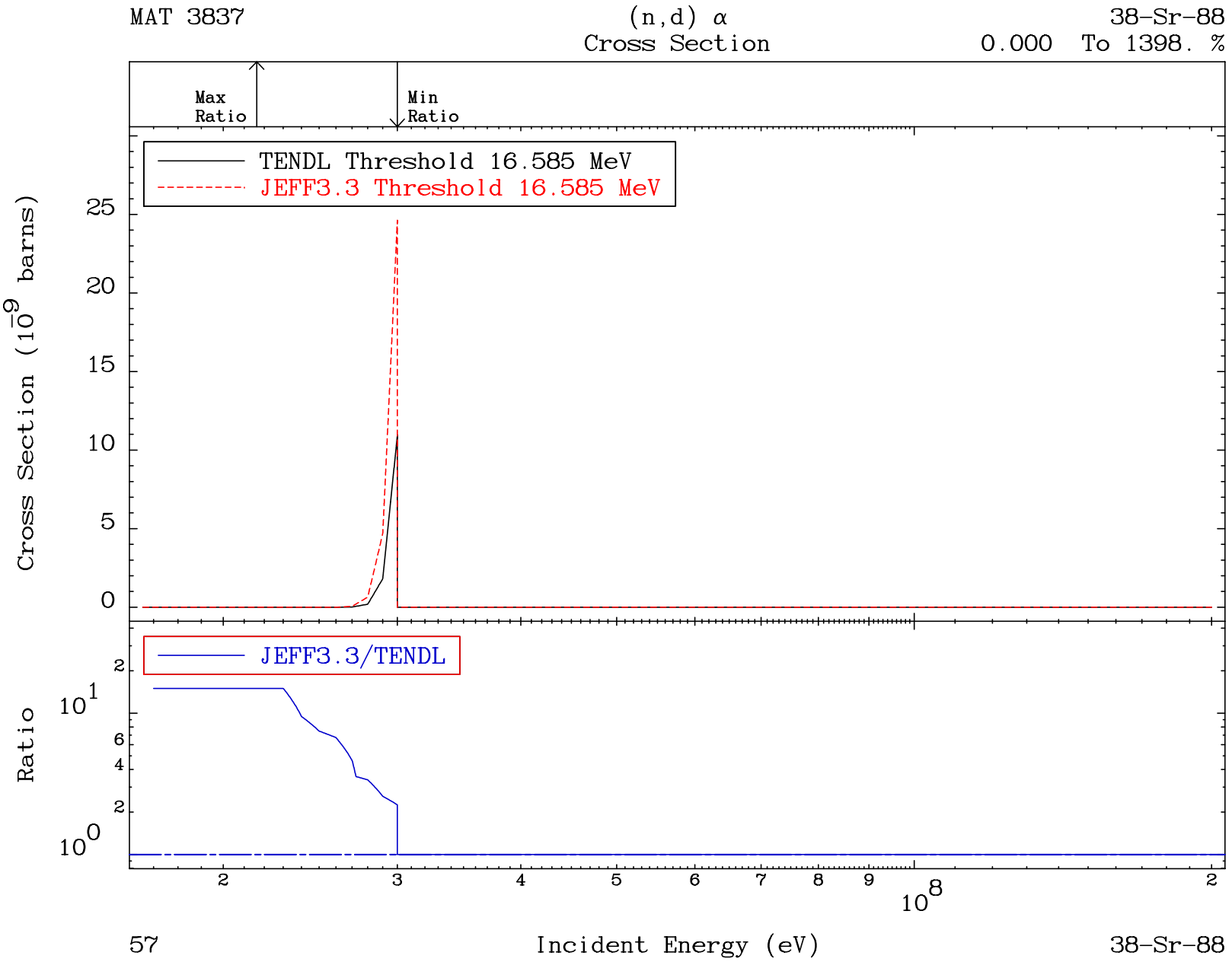

MAT 3837
(n,2α)
Cross Section
38-Sr-88
-59.20 To 5859. %
Min Ratio
Max Ratio
TENDL Threshold 8.4065 MeV
JEFF3.3 Threshold 8.4065 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
52
38-Sr-88

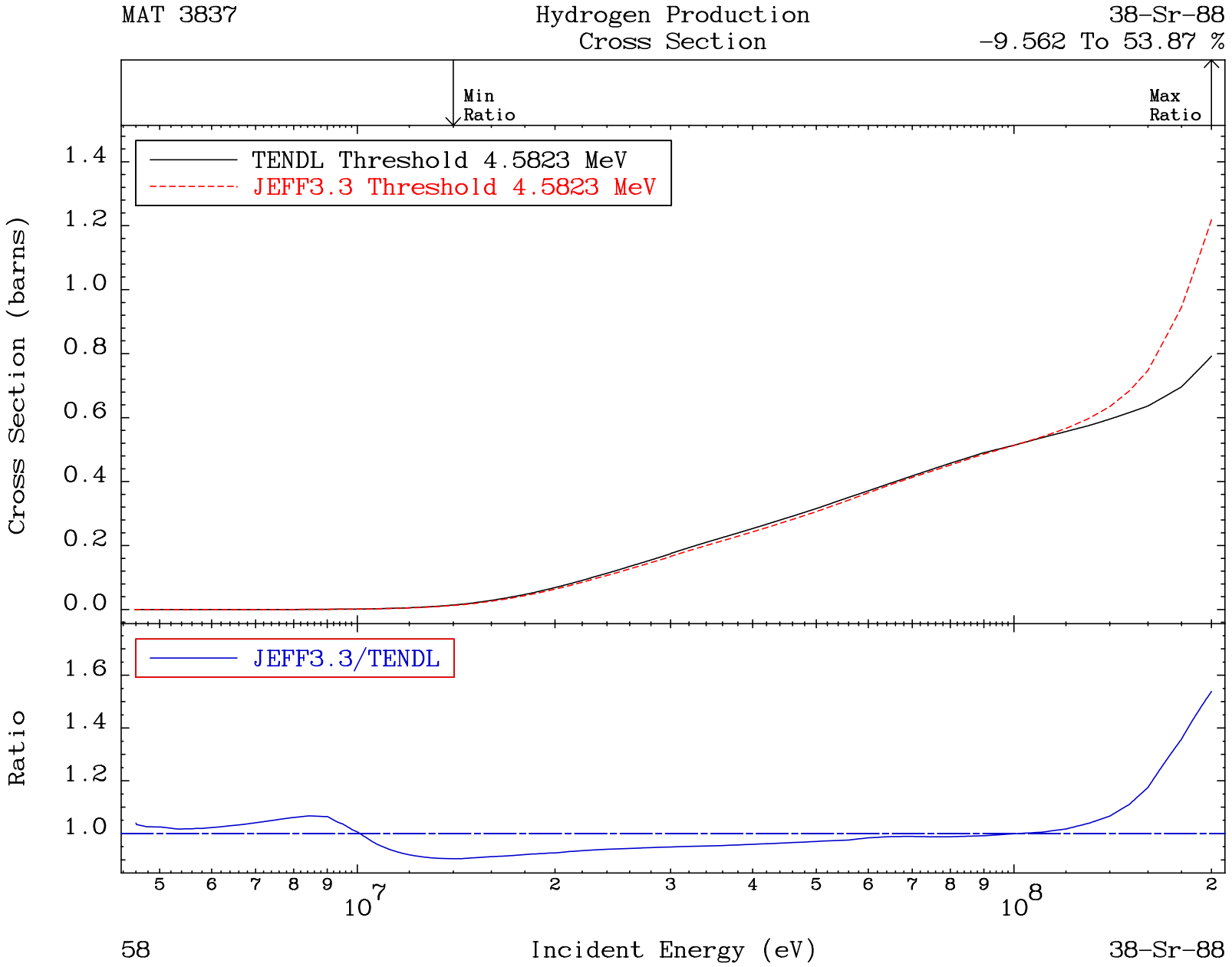

MAT 3837
(n,2p)
Cross Section
38-Sr-88
-100.0 To 34.43 %
Min Ratio
Max Ratio
TENDL Threshold 13.876 MeV
JEFF3.3 Threshold 13.876 MeV
Cross Section (micro-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
38-Sr-88

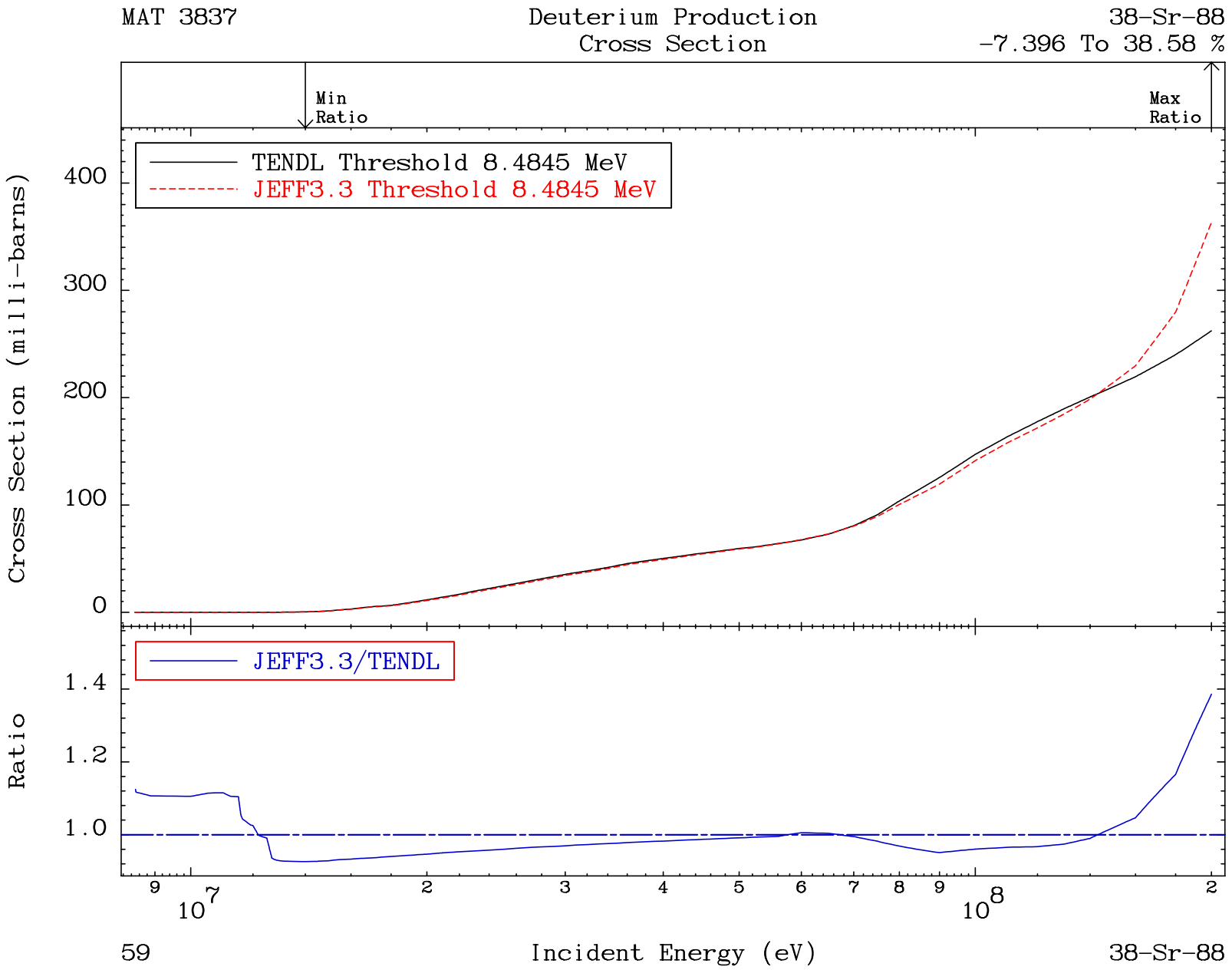

MAT 3837
(n,p) α
Cross Section
38-Sr-88
0.000 To 1412. %
Max Ratio
Min Ratio
TENDL Threshold 11.916 MeV
JEFF3.3 Threshold 11.916 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
38-Sr-88

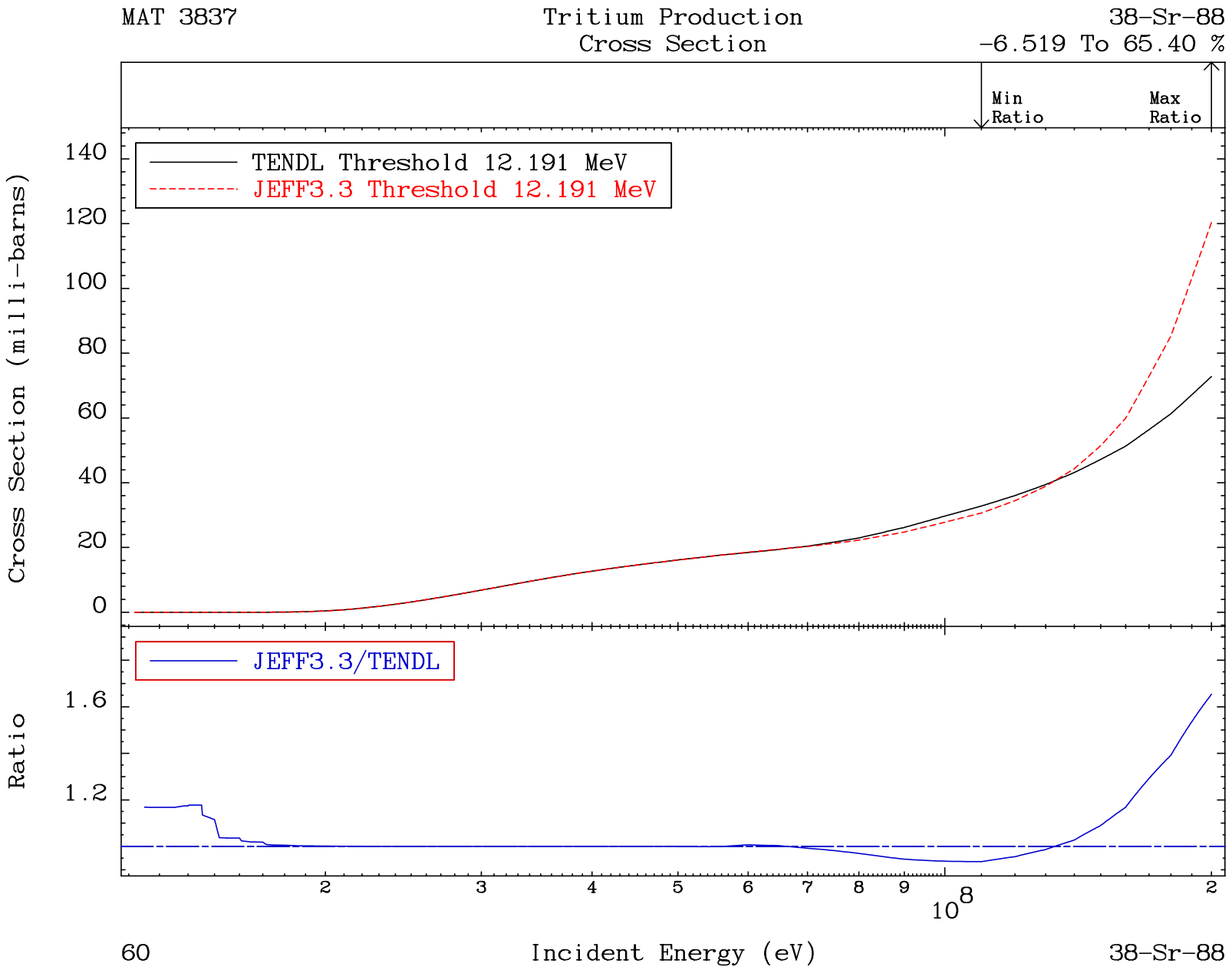

MAT 3837
(n,p) d
Cross Section
38-Sr-88
0.000 To 235.4 %
Max Ratio
Min Ratio
TENDL Threshold 17.205 MeV
JEFF3.3 Threshold 17.138 MeV
Cross Section (micro-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
38-Sr-88

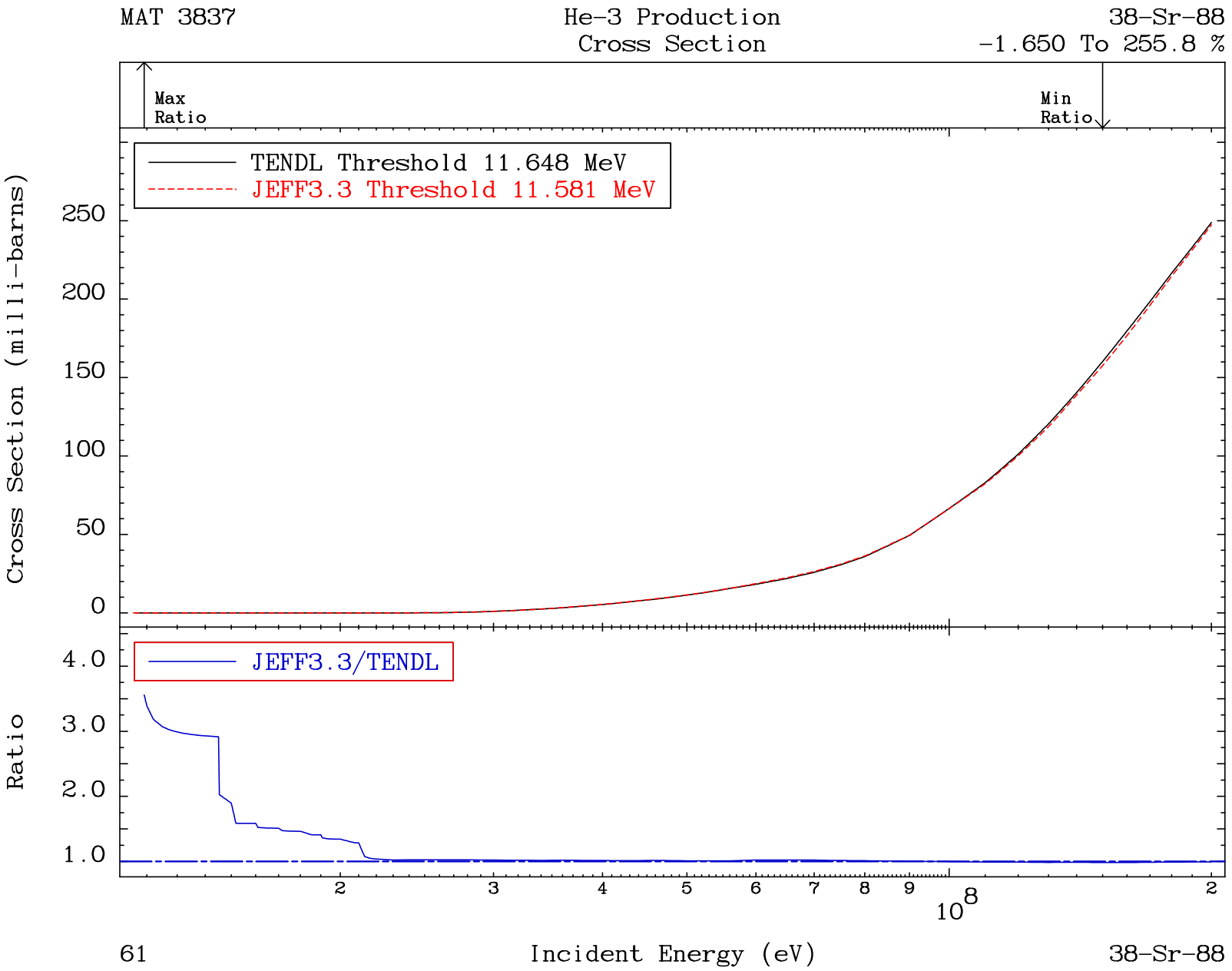

MAT 3837
(n,p) t
Cross Section
38-Sr-88
-5.315 To 97.64 %
Min
Ratio
TENDL Threshold 20.845 MeV
JEFF3.3 Threshold 20.845 MeV
Cross Section (10^{-9} barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
20
40
60
80
100
120
140
160
180
200
56
Incident Energy (MeV)
38-Sr-88

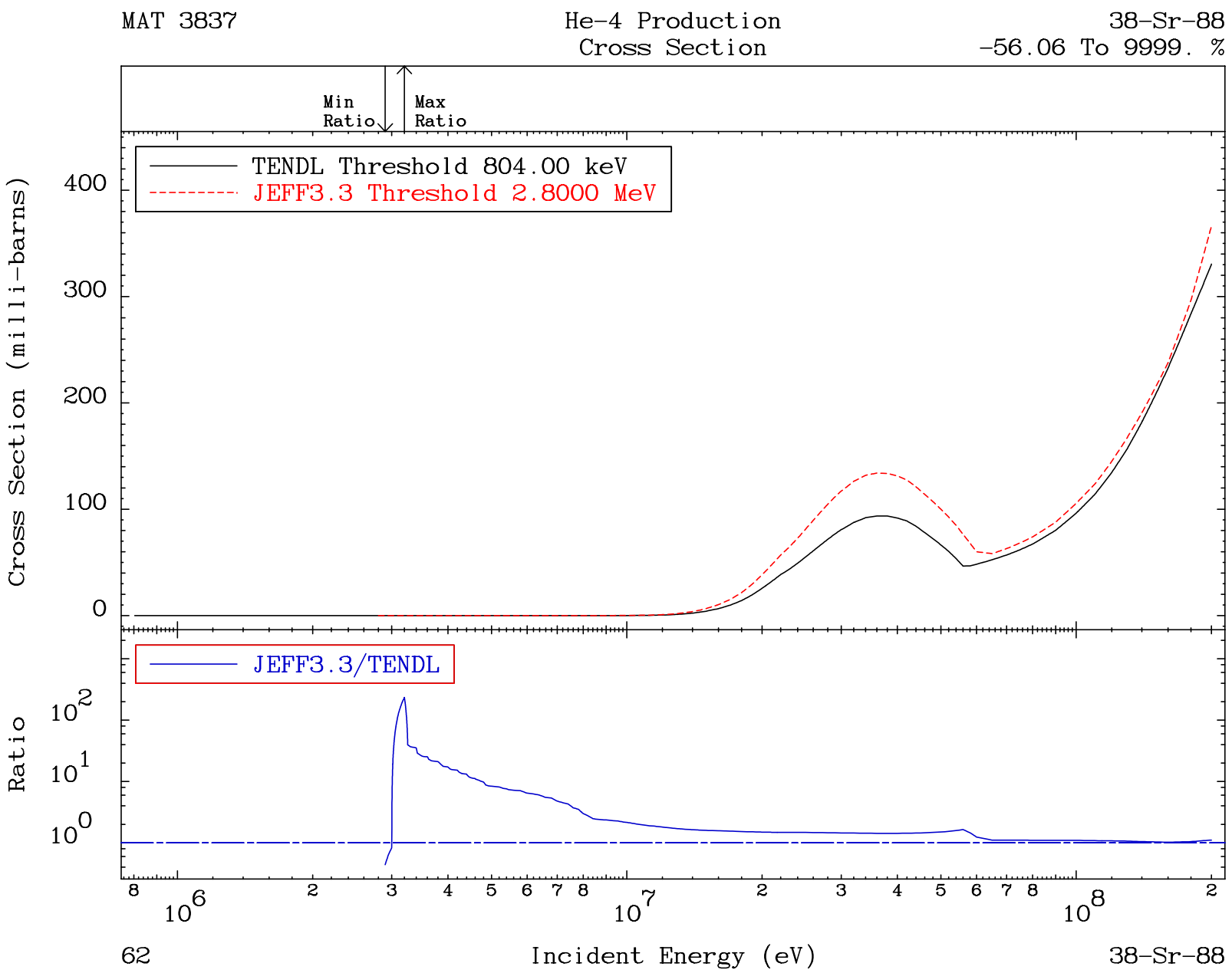

MAT 3837
(n,d) α
Cross Section
38-Sr-88
0.000 To 1398. %
Max Ratio
Min Ratio
TENDL Threshold 16.585 MeV
JEFF3.3 Threshold 16.585 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{1}
10^{0}
2
6
4
2
2
3
4
5
6
7
8
9
10^{8}
2
57
Incident Energy (eV)
38-Sr-88

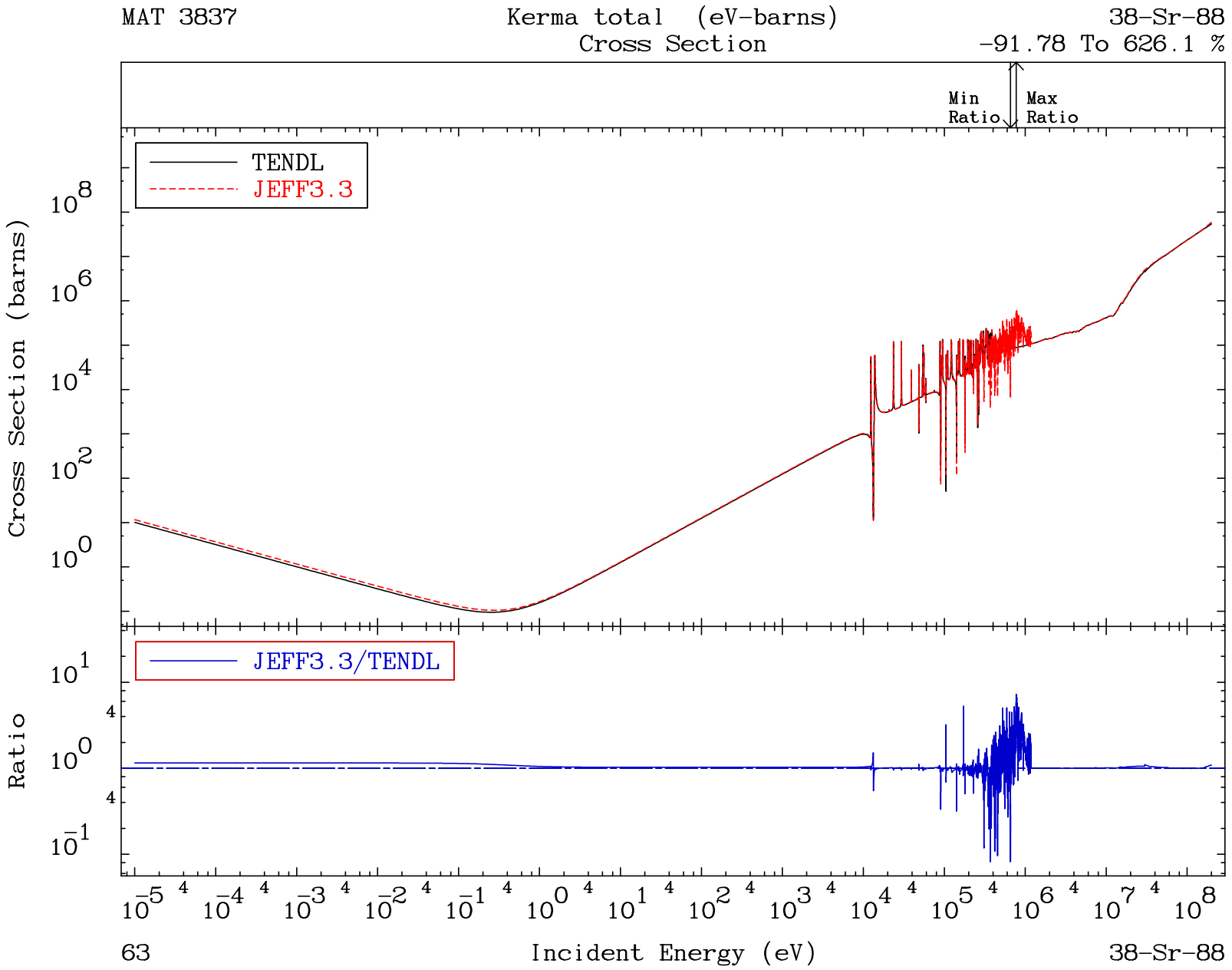

MAT 3837
Hydrogen Production
Cross Section
38-Sr-88
-9.562 To 53.87 %
Min
Ratio
Max
Ratio
TENDL Threshold 4.5823 MeV
JEFF3.3 Threshold 4.5823 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.6
1.4
1.2
1.0
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
58
Incident Energy (eV)
38-Sr-88

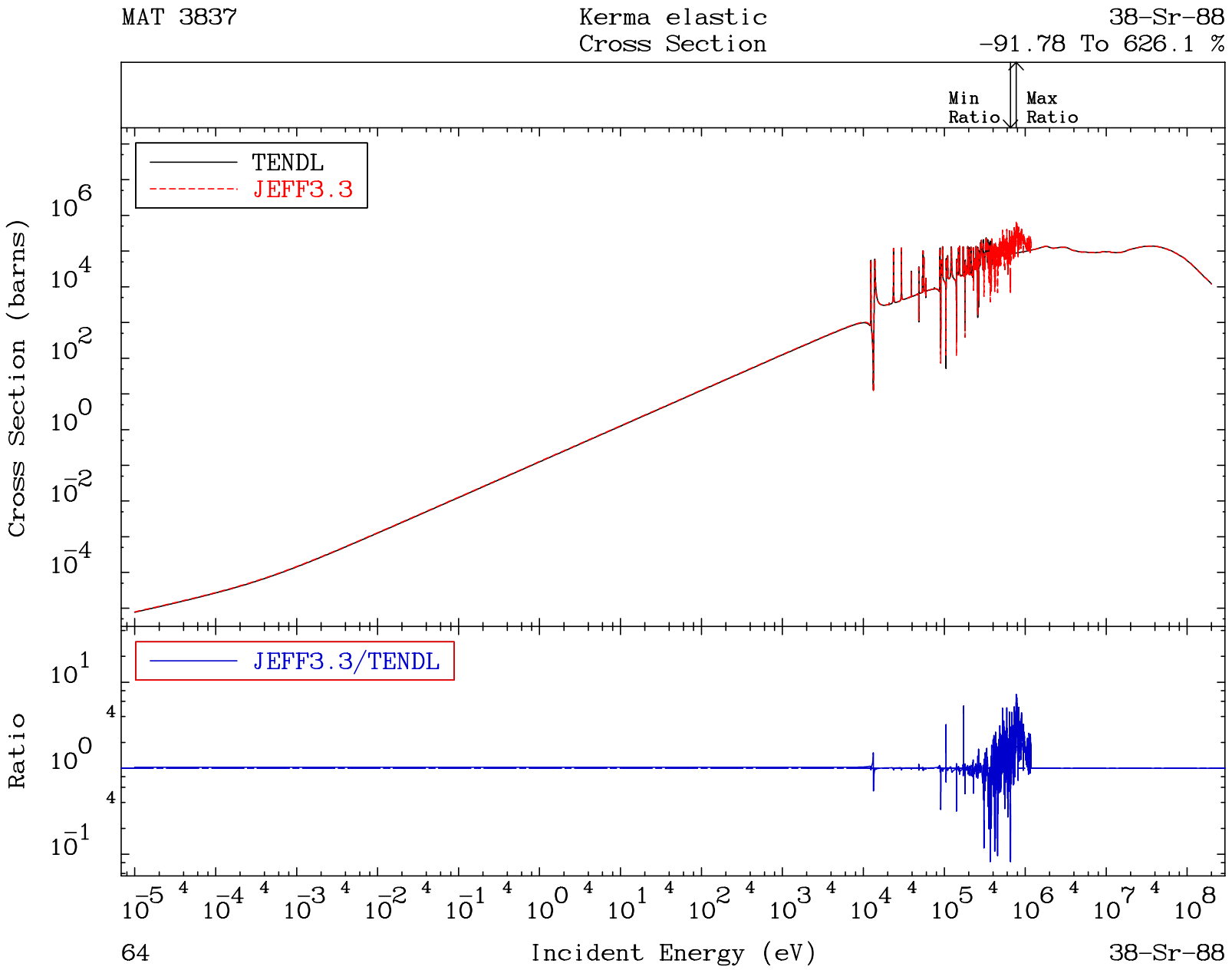

MAT 3837
Deuterium Production
Cross Section
38-Sr-88
-7.396 To 38.58 %
Min
Ratio
Max
Ratio
TENDL Threshold 8.4845 MeV
JEFF3.3 Threshold 8.4845 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
38-Sr-88

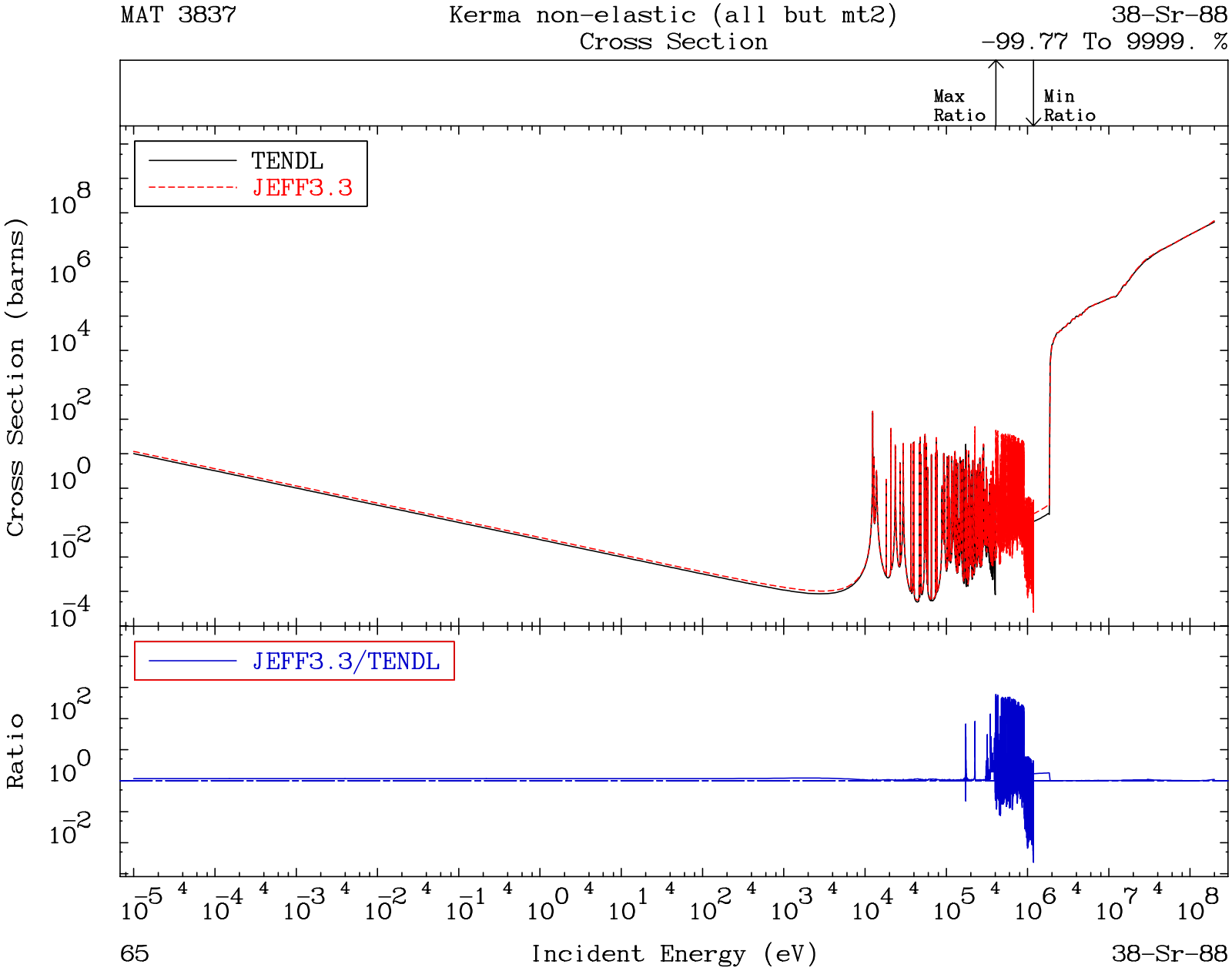

MAT 3837
Tritium Production
Cross Section
38-Sr-88
-6.519 To 65.40 %
Min Ratio
Max Ratio
TENDL Threshold 12.191 MeV
JEFF3.3 Threshold 12.191 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
38-Sr-88

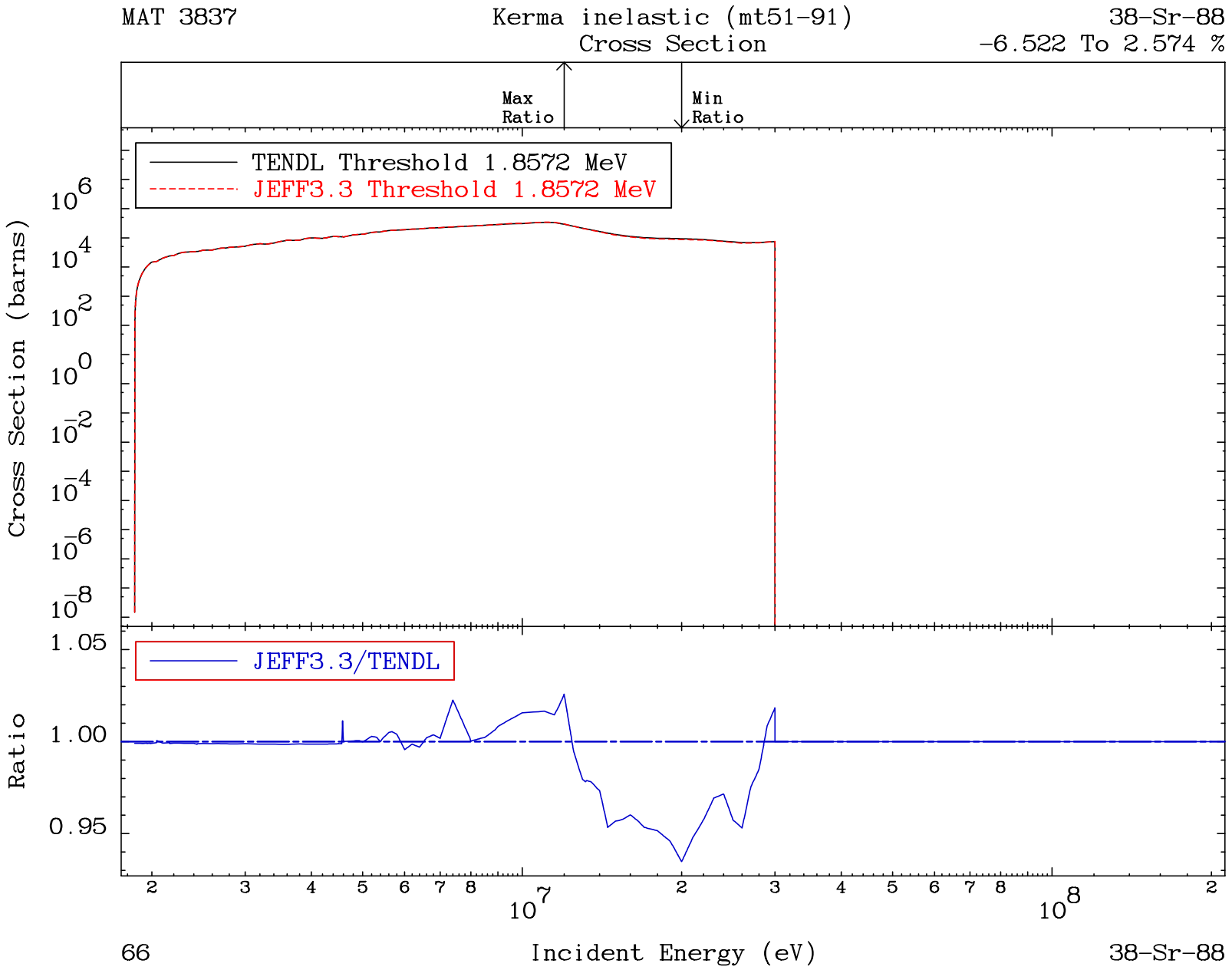

MAT 3837
He-3 Production
Cross Section
38-Sr-88
-1.650 To 255.8 %
Max
Ratio
Min
Ratio
TENDL Threshold 11.648 MeV
JEFF3.3 Threshold 11.581 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
38-Sr-88

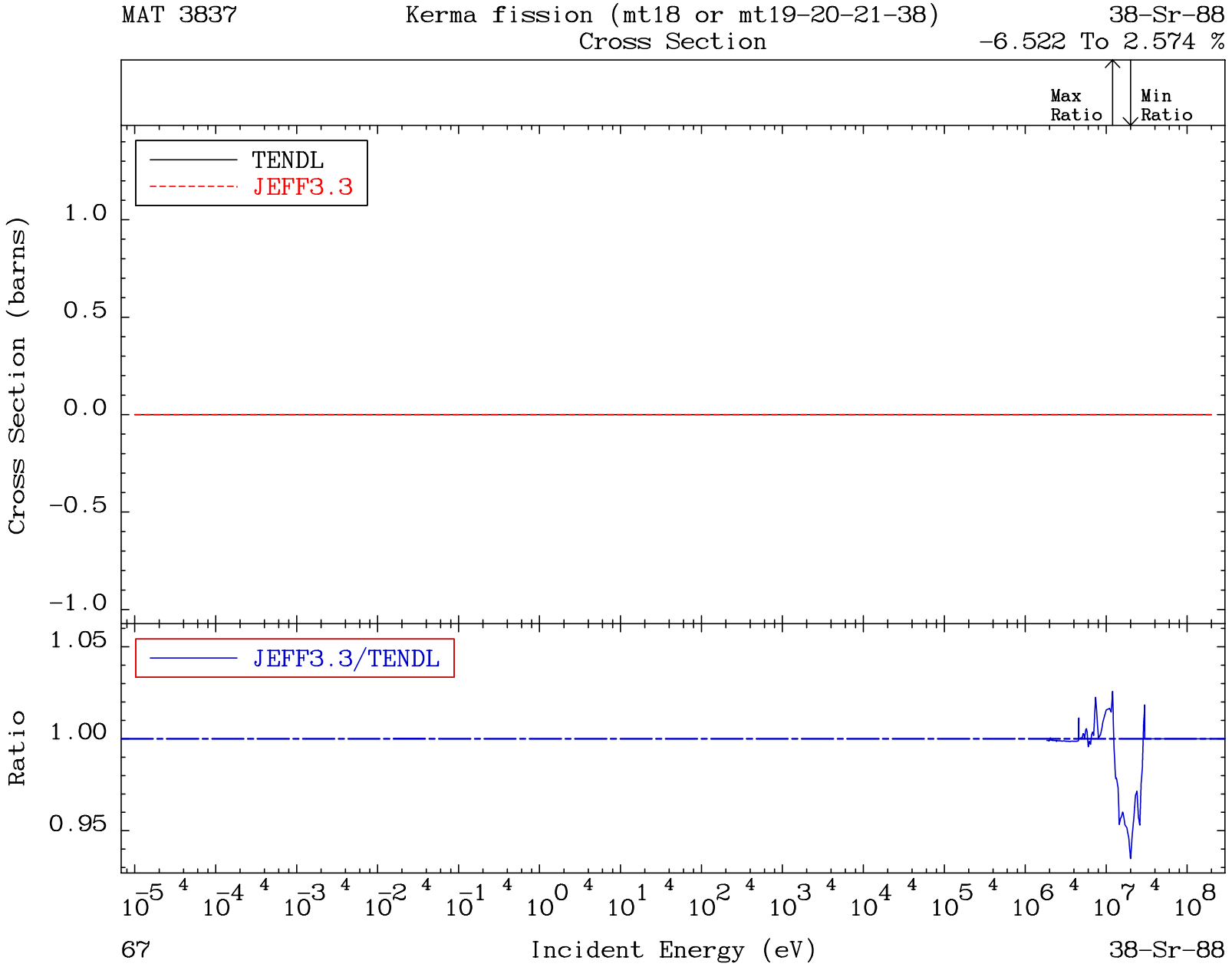

MAT 3837
He-4 Production
Cross Section
38-Sr-88
-56.06 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 804.00 keV
JEFF3.3 Threshold 2.8000 MeV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
62
Incident Energy (eV)
38-Sr-88

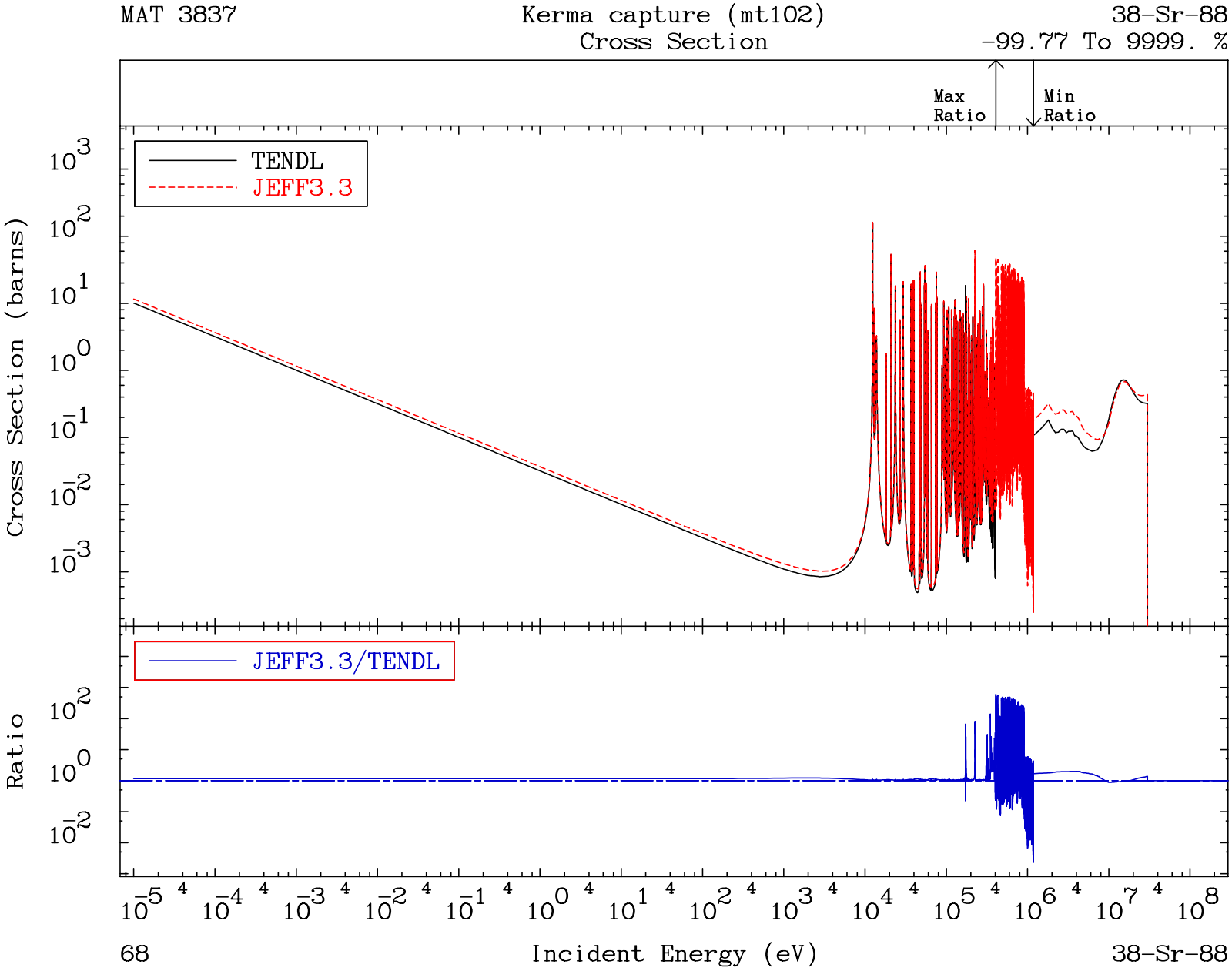

MAT 3837
Kerma total (eV-barns)
Cross Section
38-Sr-88
-91.78 To 626.1 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
38-Sr-88

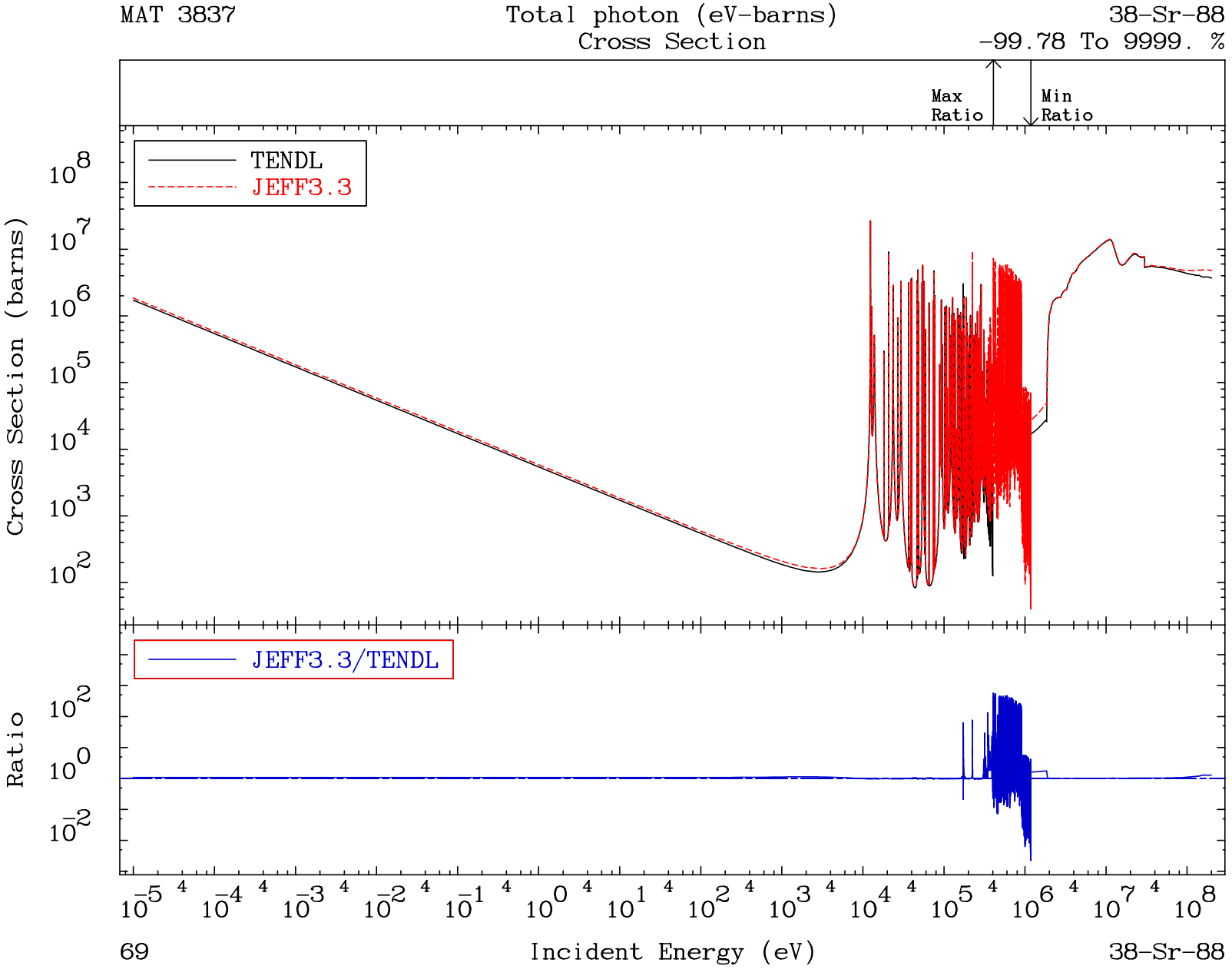

MAT 3837
Kerma elastic
Cross Section
38-Sr-88
-91.78 To 626.1 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
38-Sr-88

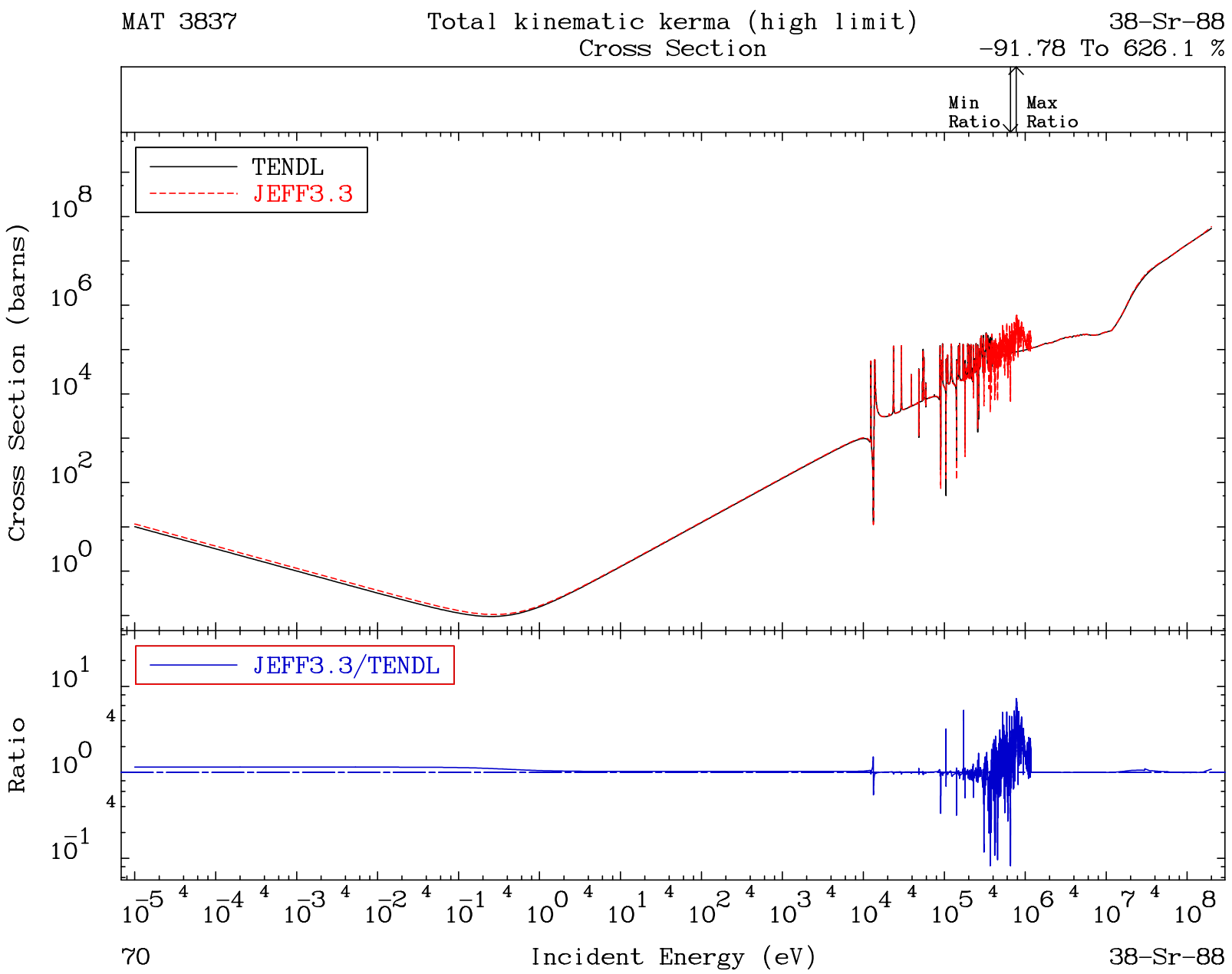

MAT 3837
Kerma non-elastic (all but mt2)
Cross Section
38-Sr-88
-99.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
38-Sr-88

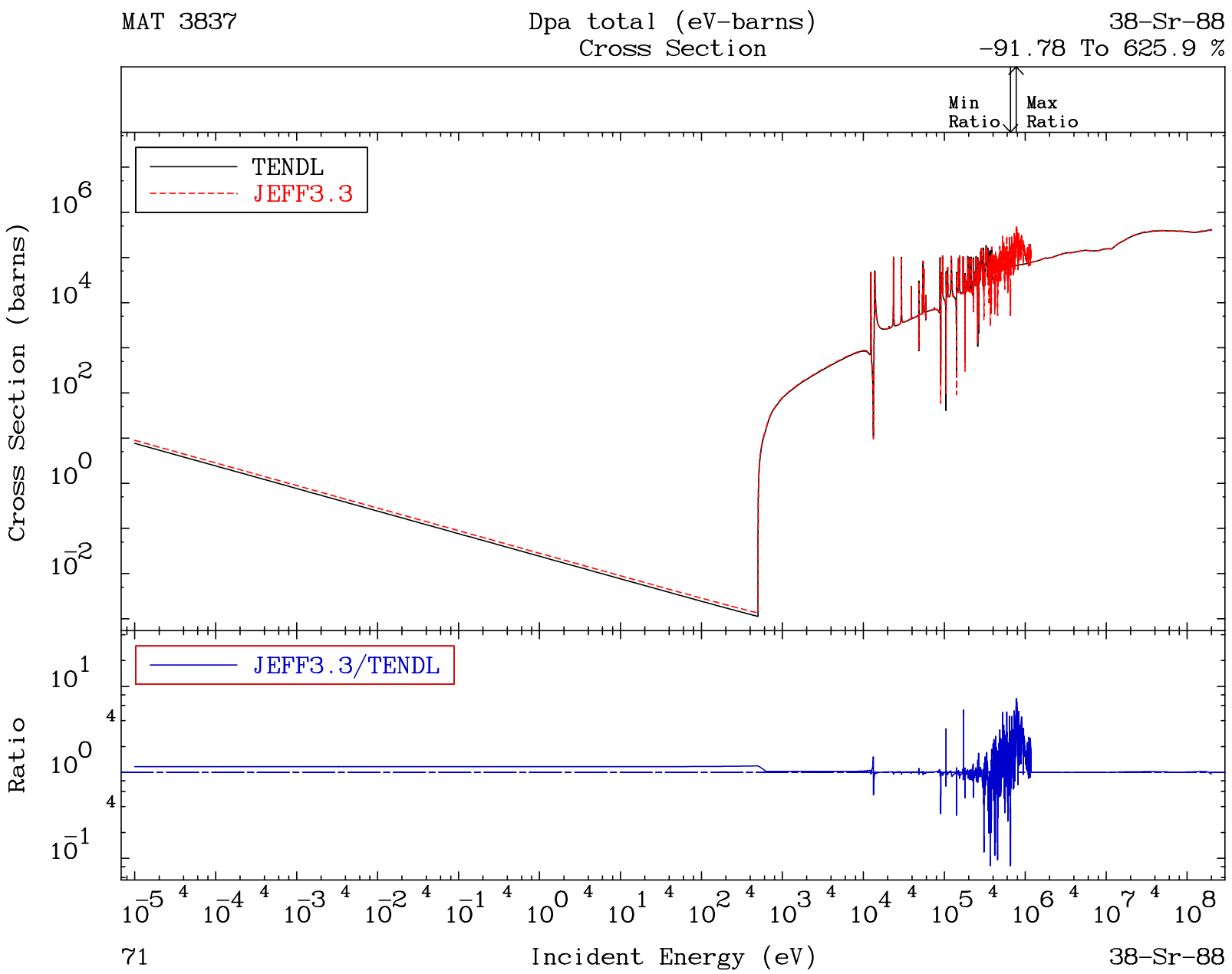

MAT 3837
Kerma inelastic (mt51-91)
Cross Section
38-Sr-88
-6.522 To 2.574 %
Max Ratio
Min Ratio
TENDL Threshold 1.8572 MeV
JEFF3.3 Threshold 1.8572 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
38-Sr-88

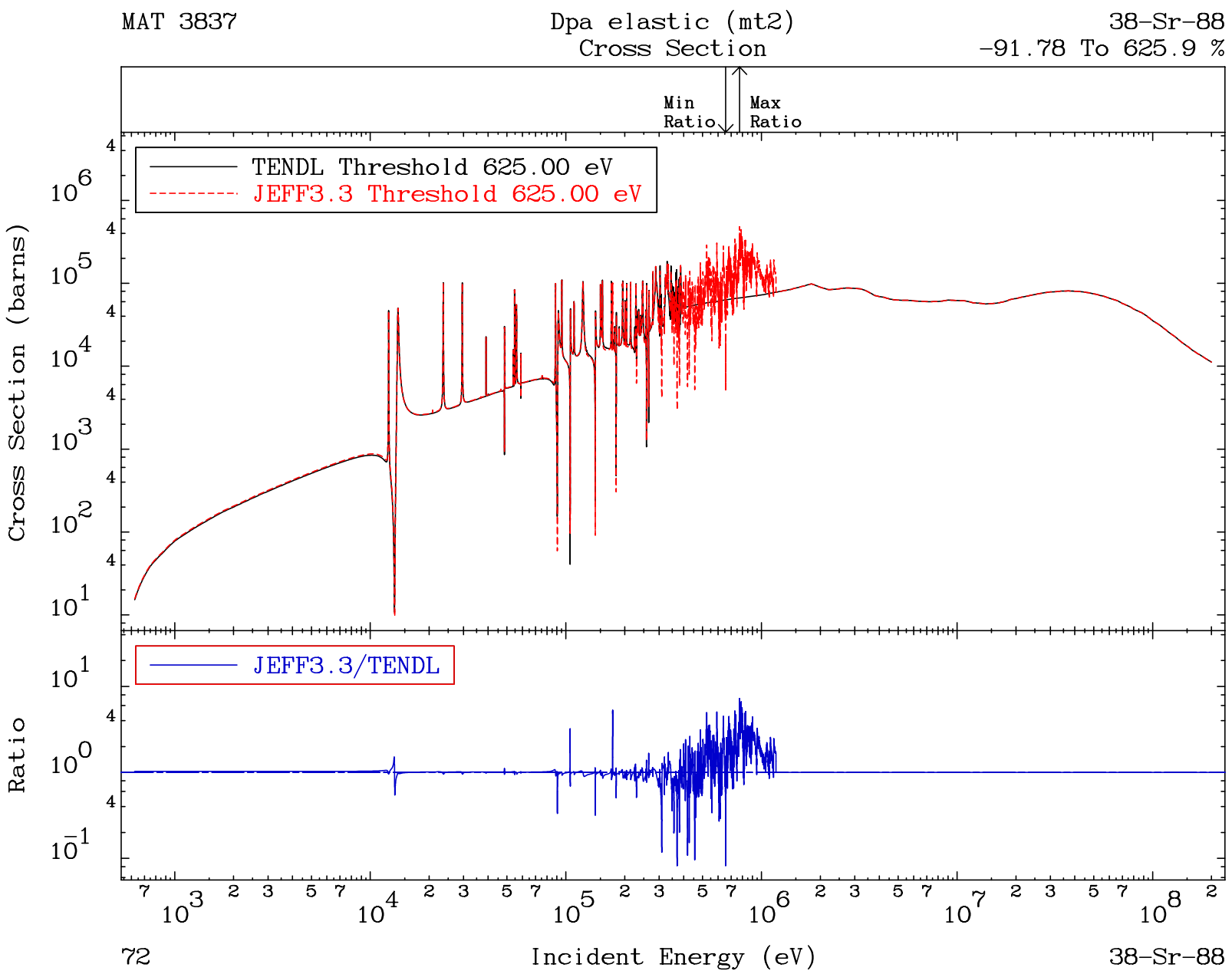

MAT 3837
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
38-Sr-88
-6.522 To 2.574 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
67
Incident Energy (eV)
38-Sr-88

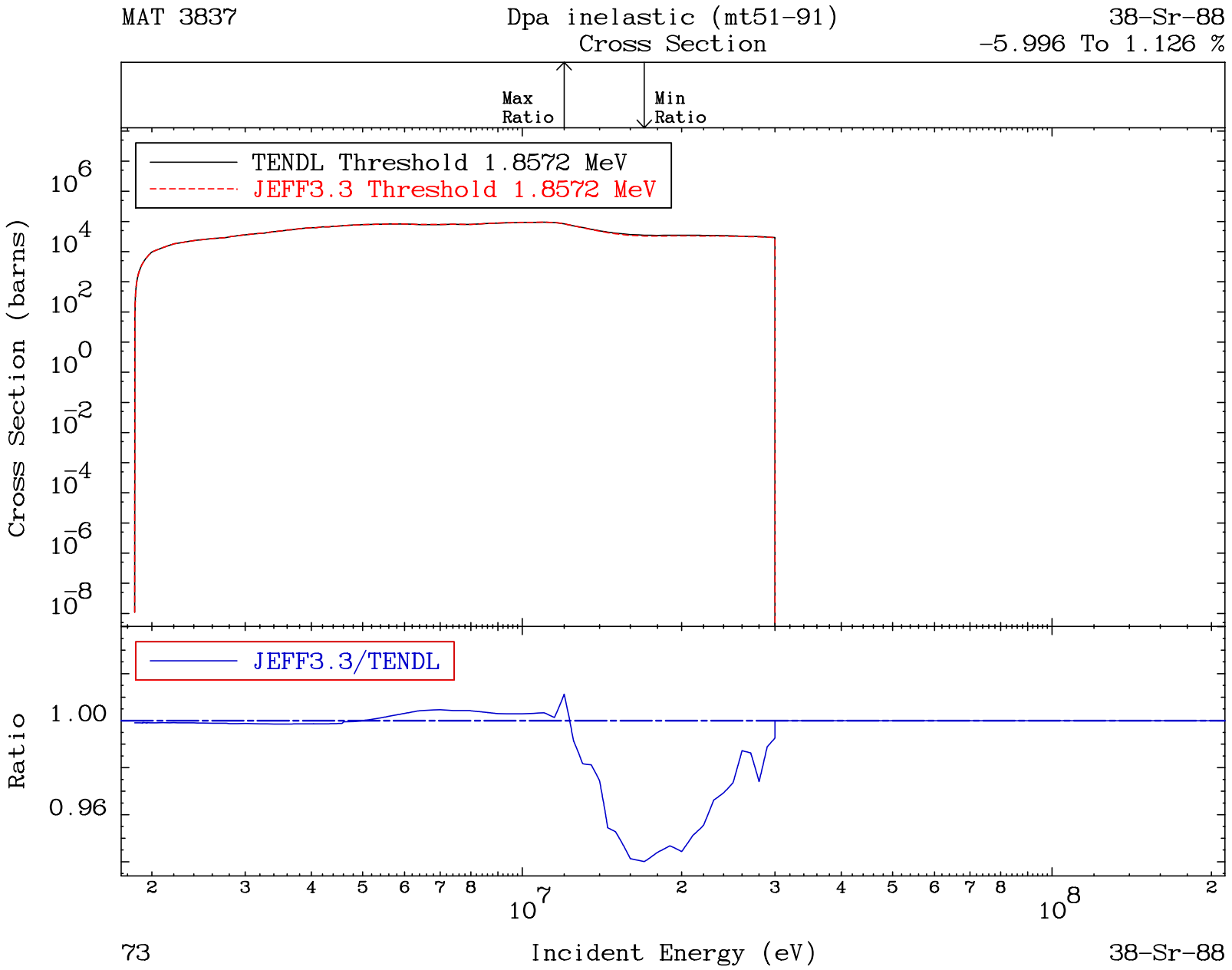

MAT 3837
Kerma capture (mt102)
Cross Section
38-Sr-88
-99.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
38-Sr-88

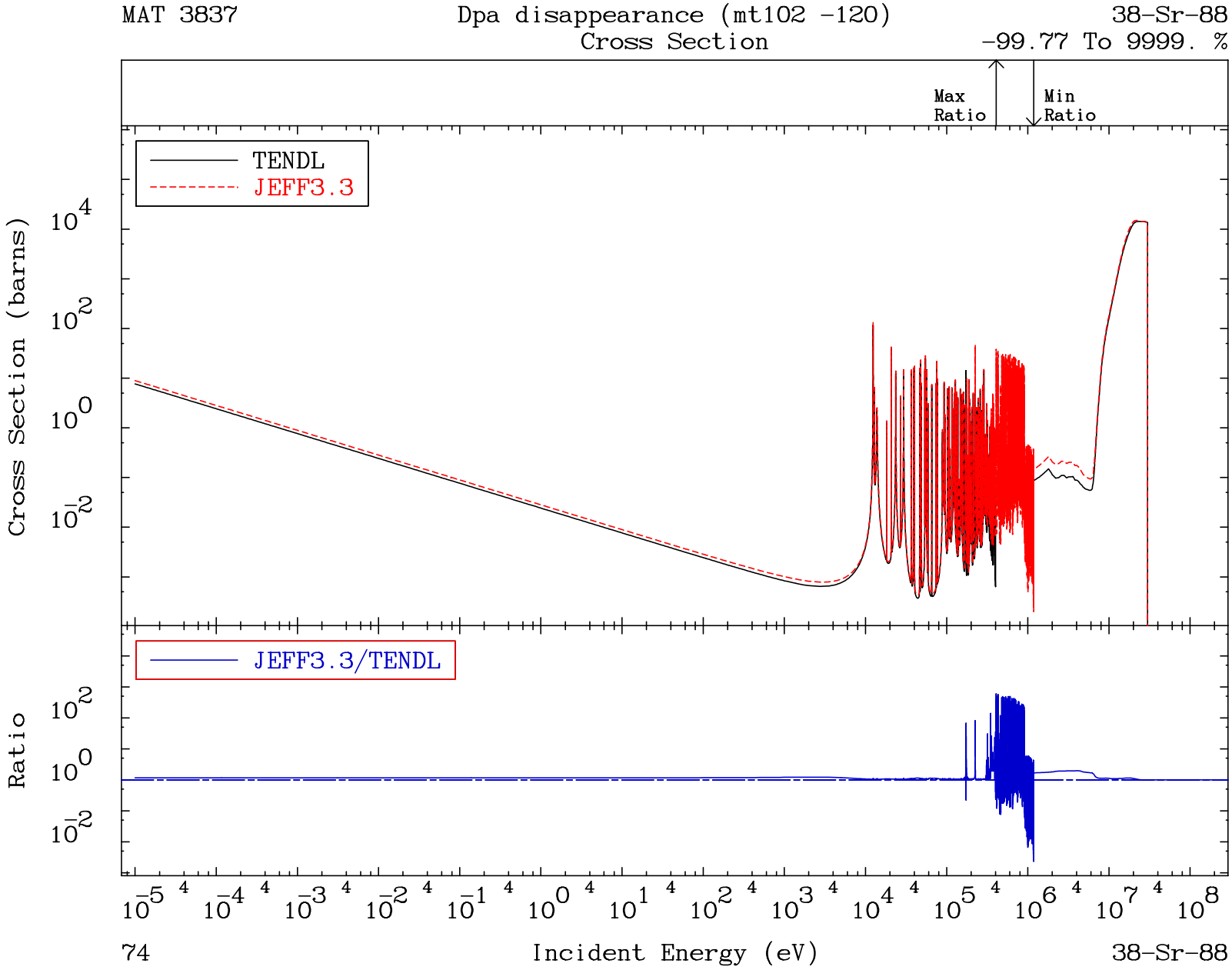

MAT 3837
Total photon (eV-barns)
Cross Section
38-Sr-88
-99.78 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
38-Sr-88

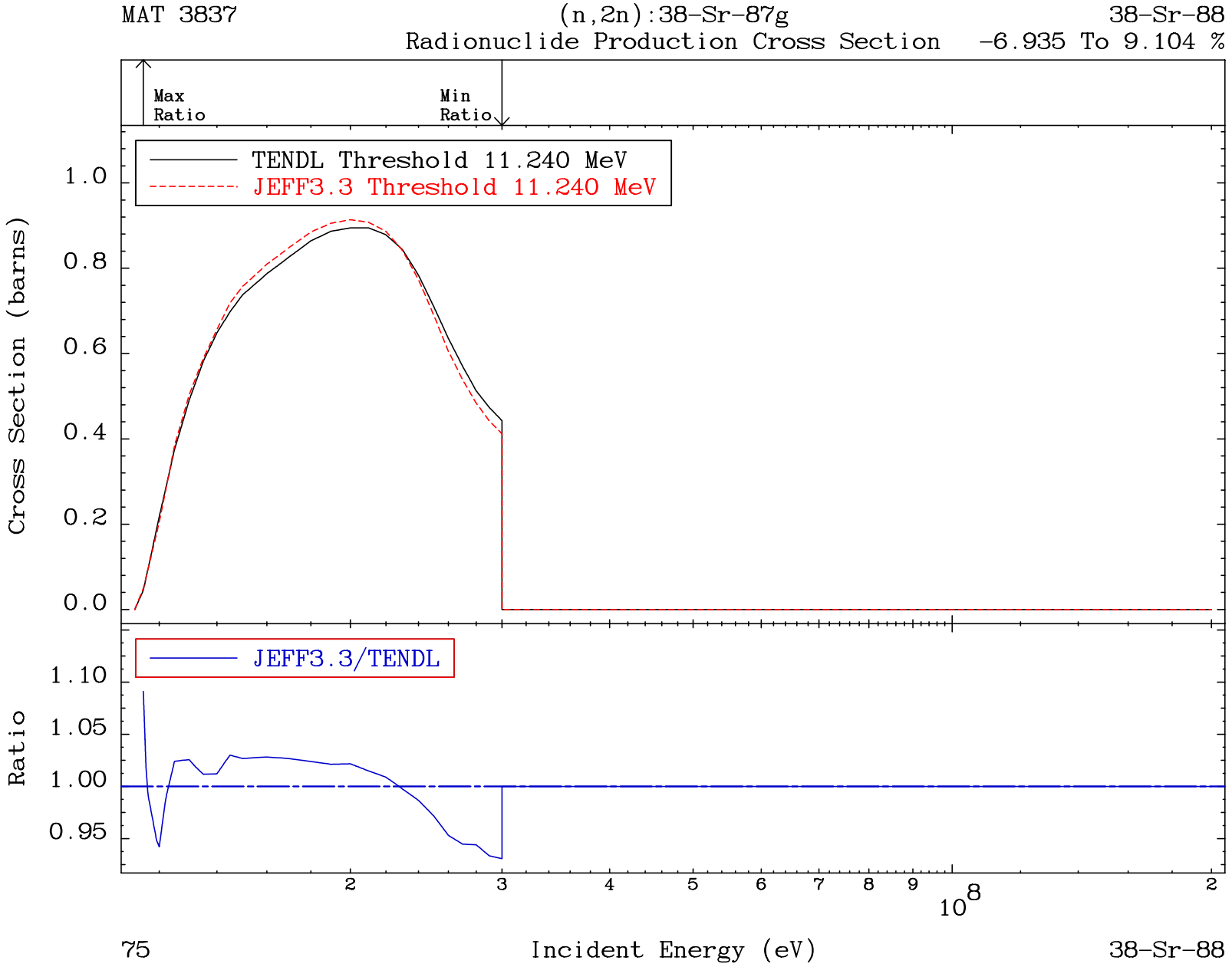

MAT 3837
Total kinematic kerma (high limit)
Cross Section
38-Sr-88
-91.78 To 626.1 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
38-Sr-88

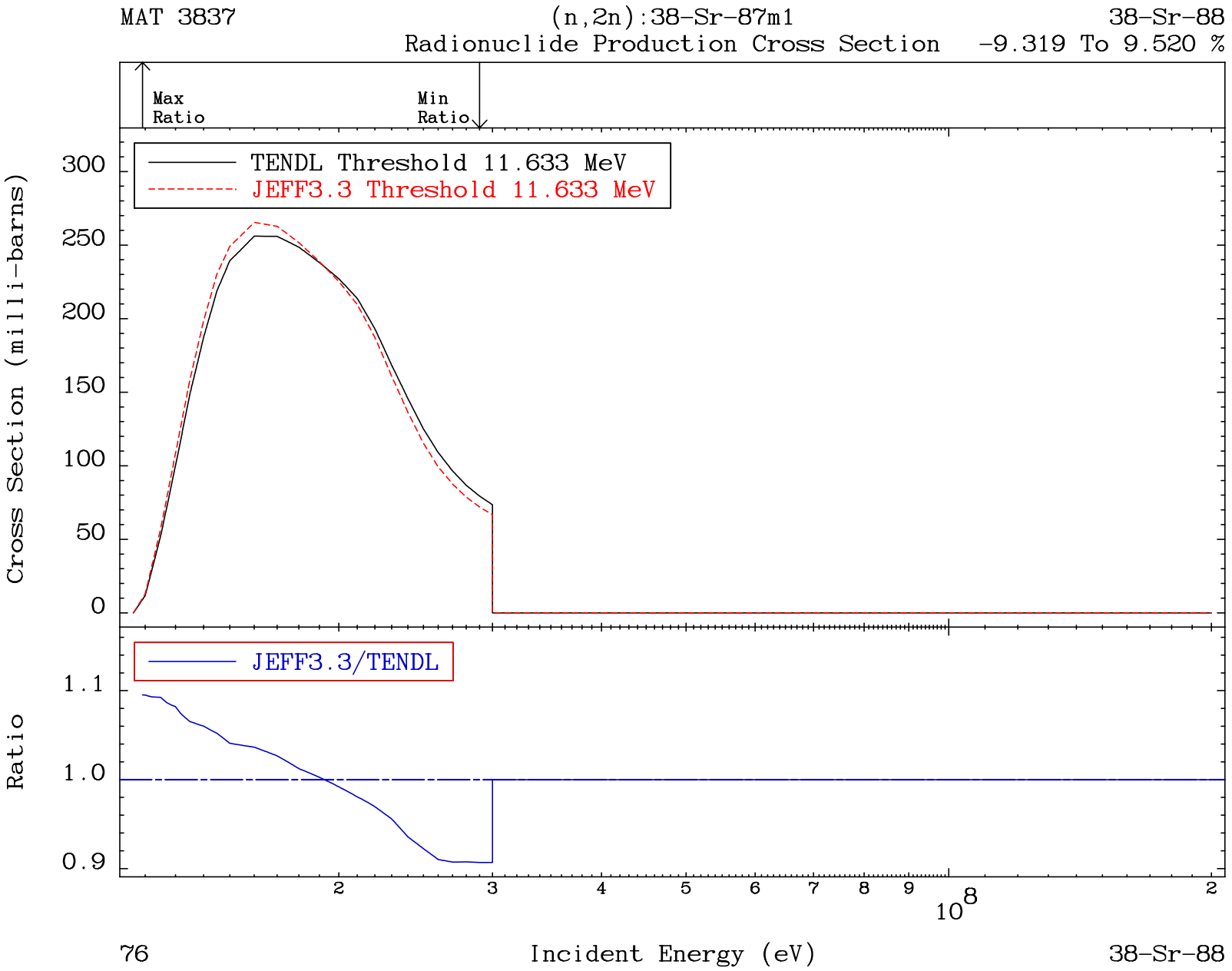

MAT 3837
Dpa total (eV-barns)
Cross Section
38-Sr-88
-91.78 To 625.9 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
38-Sr-88

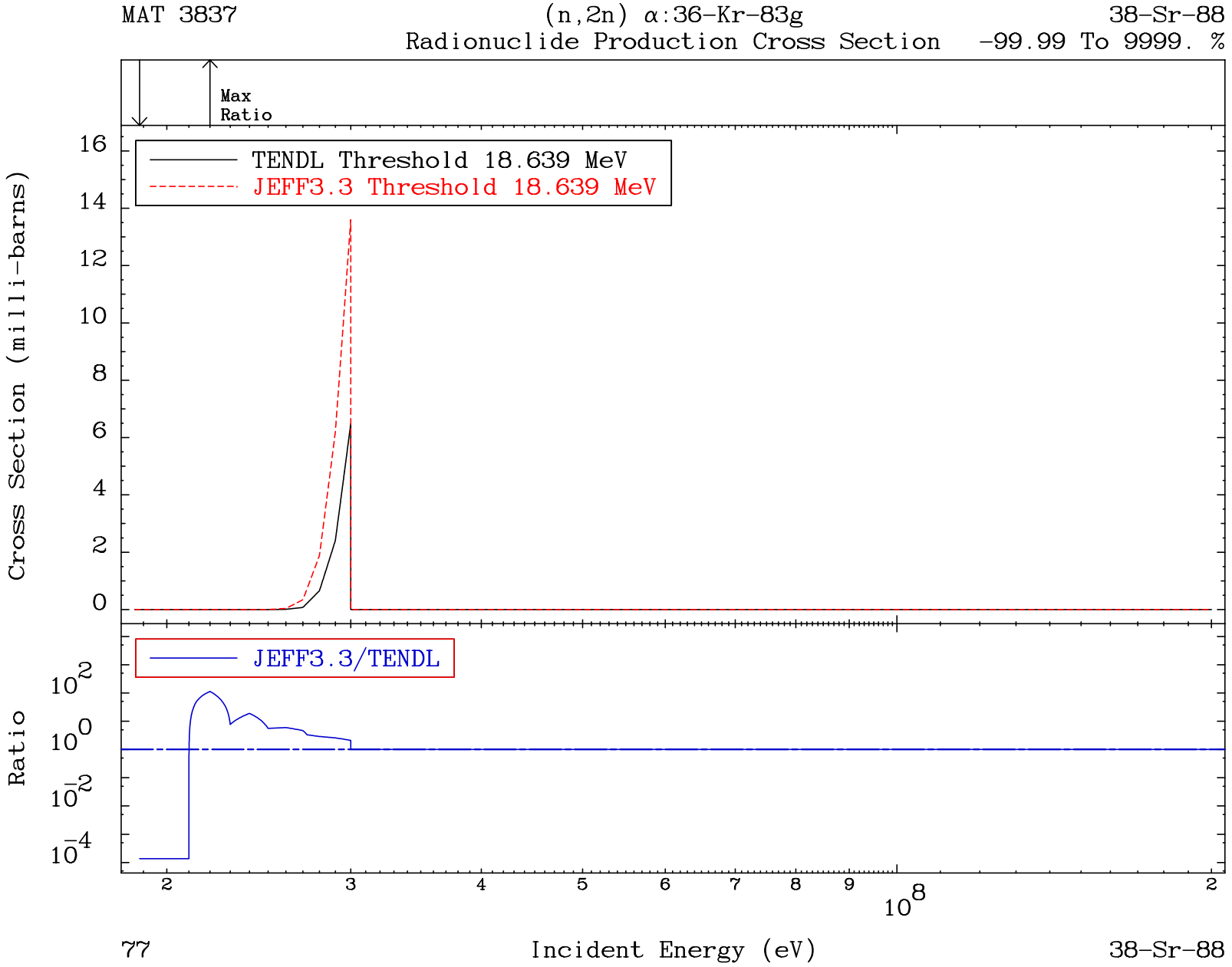

MAT 3837
Dpa elastic (mt2)
Cross Section
38-Sr-88
-91.78 To 625.9 %
Min Ratio
Max Ratio
TENDL Threshold 625.00 eV
JEFF3.3 Threshold 625.00 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
38-Sr-88

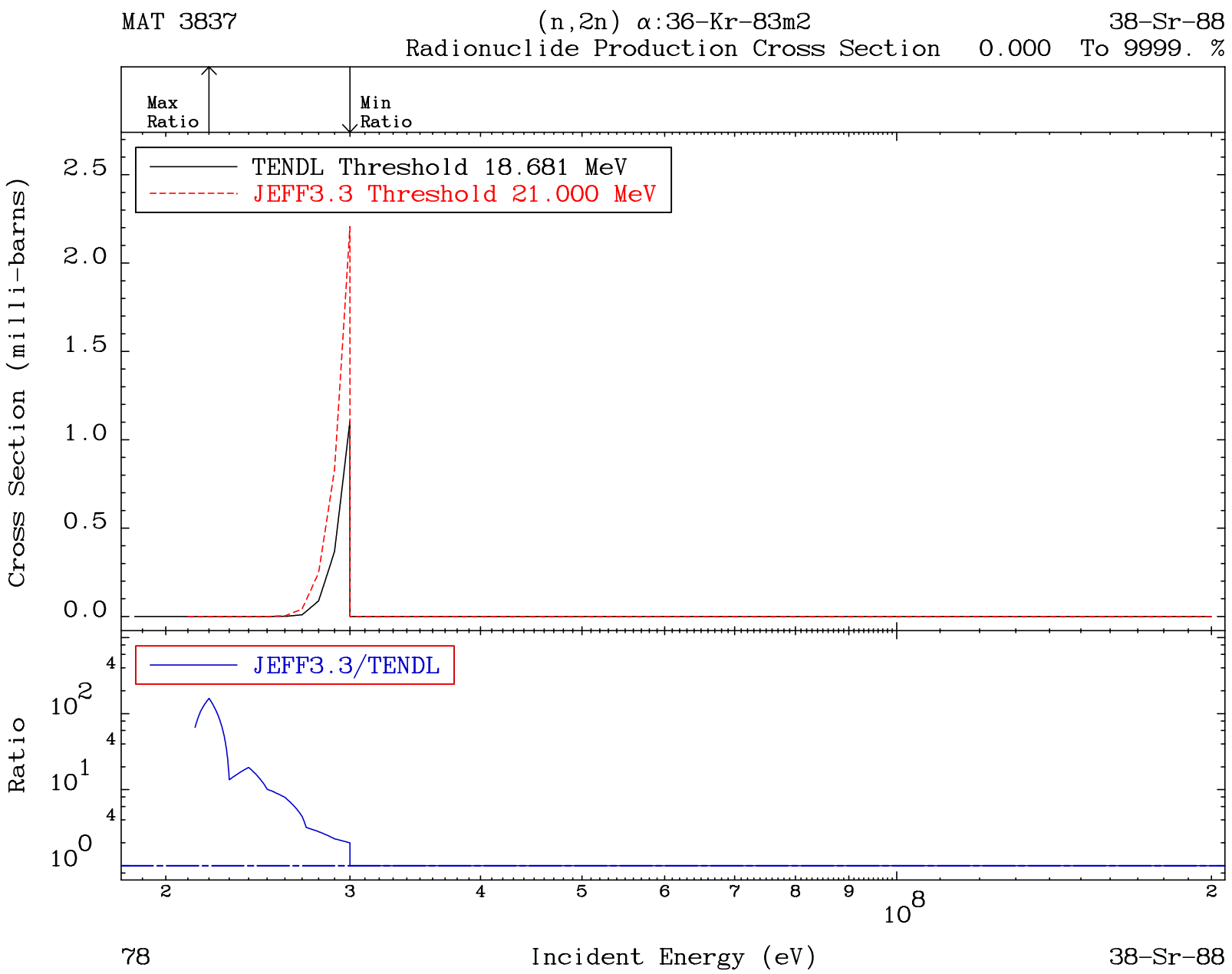

MAT 3837
Dpa inelastic (mt51-91)
Cross Section
38-Sr-88
-5.996 To 1.126 %
Max Ratio
Min Ratio
TENDL Threshold 1.8572 MeV
JEFF3.3 Threshold 1.8572 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
1.00
0.96
Incident Energy (eV)
73
38-Sr-88

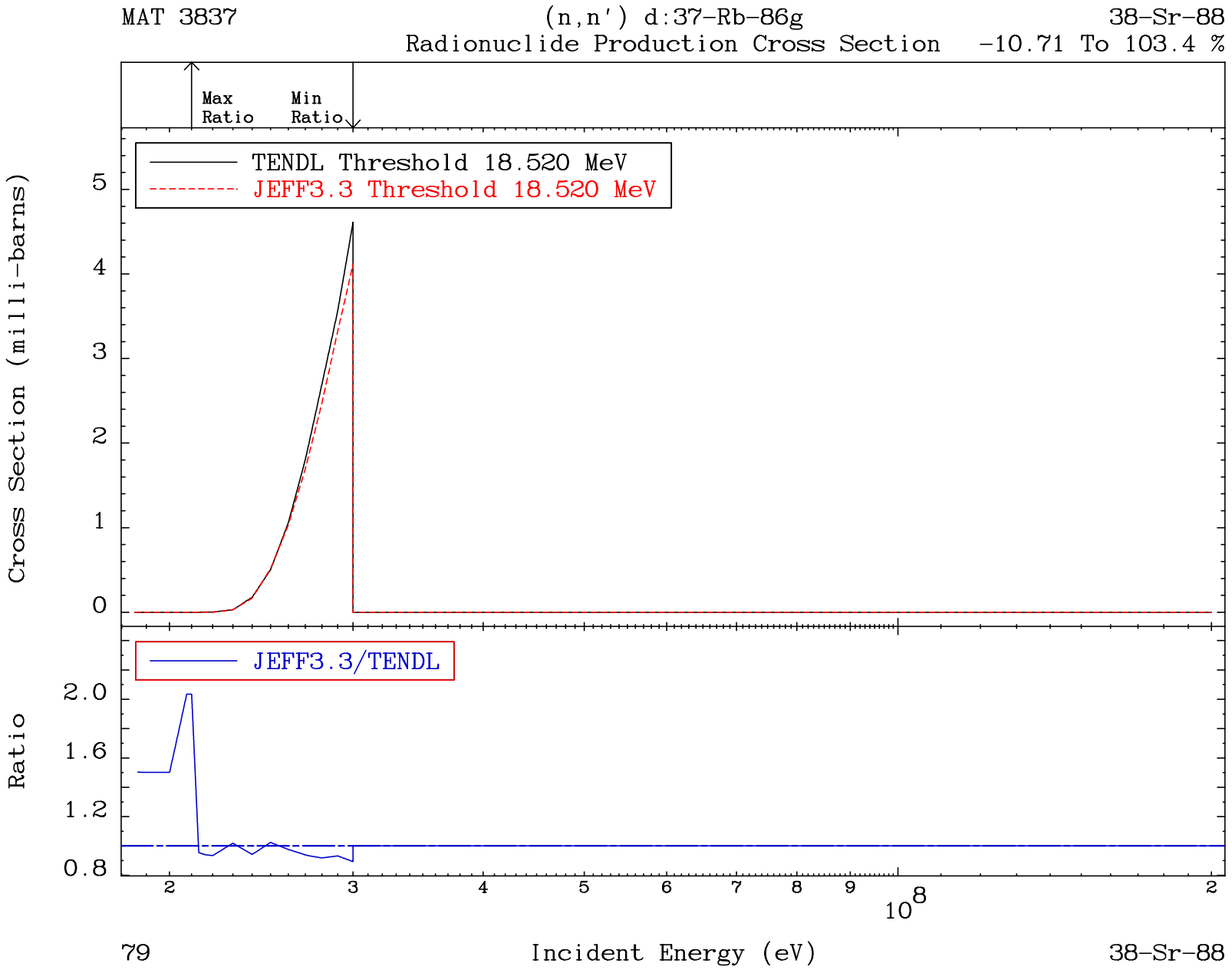

MAT 3837
Dpa disappearance (mt102 -120)
Cross Section
38-Sr-88
-99.77 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
38-Sr-88

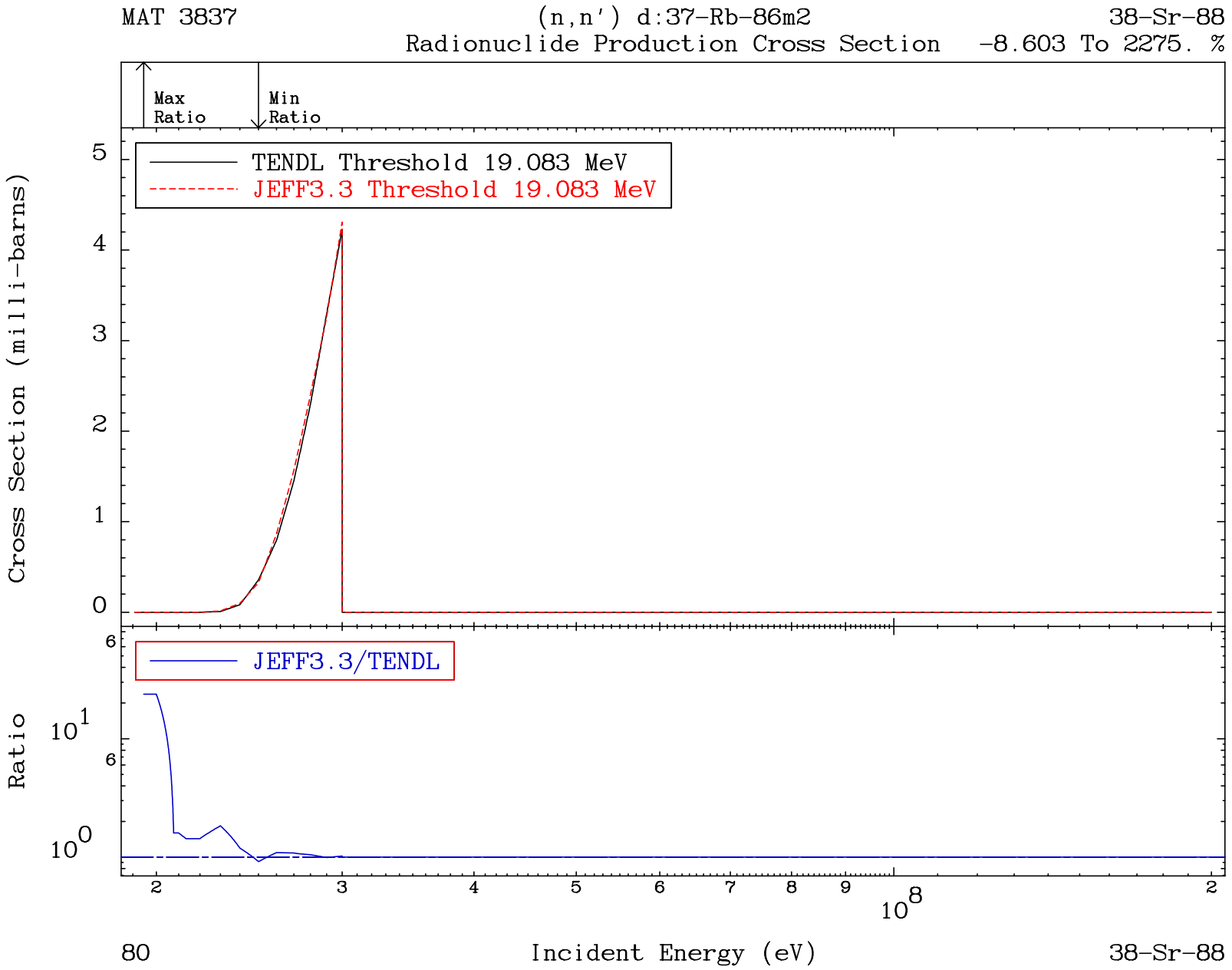

MAT 3837
(n,2n):38-Sr-87g
38-Sr-88
Radionuclide Production Cross Section
-6.935 To 9.104 %
Max Ratio
Min Ratio
TENDL Threshold 11.240 MeV
JEFF3.3 Threshold 11.240 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
38-Sr-88

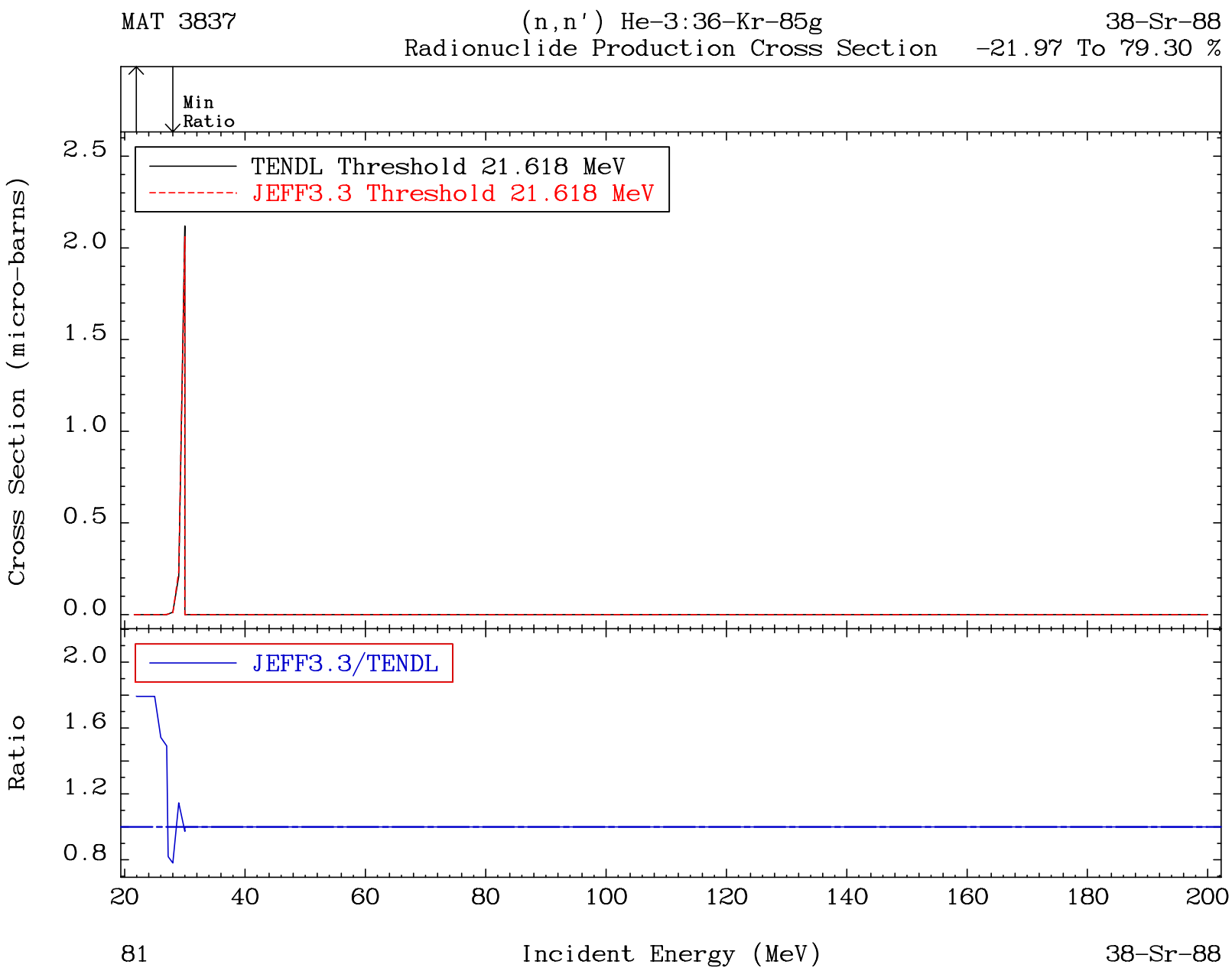

MAT 3837
(n,2n):38-Sr-87m1
38-Sr-88
Radionuclide Production Cross Section
-9.319 To 9.520 %
Max Ratio
Min Ratio
TENDL Threshold 11.633 MeV
JEFF3.3 Threshold 11.633 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
38-Sr-88

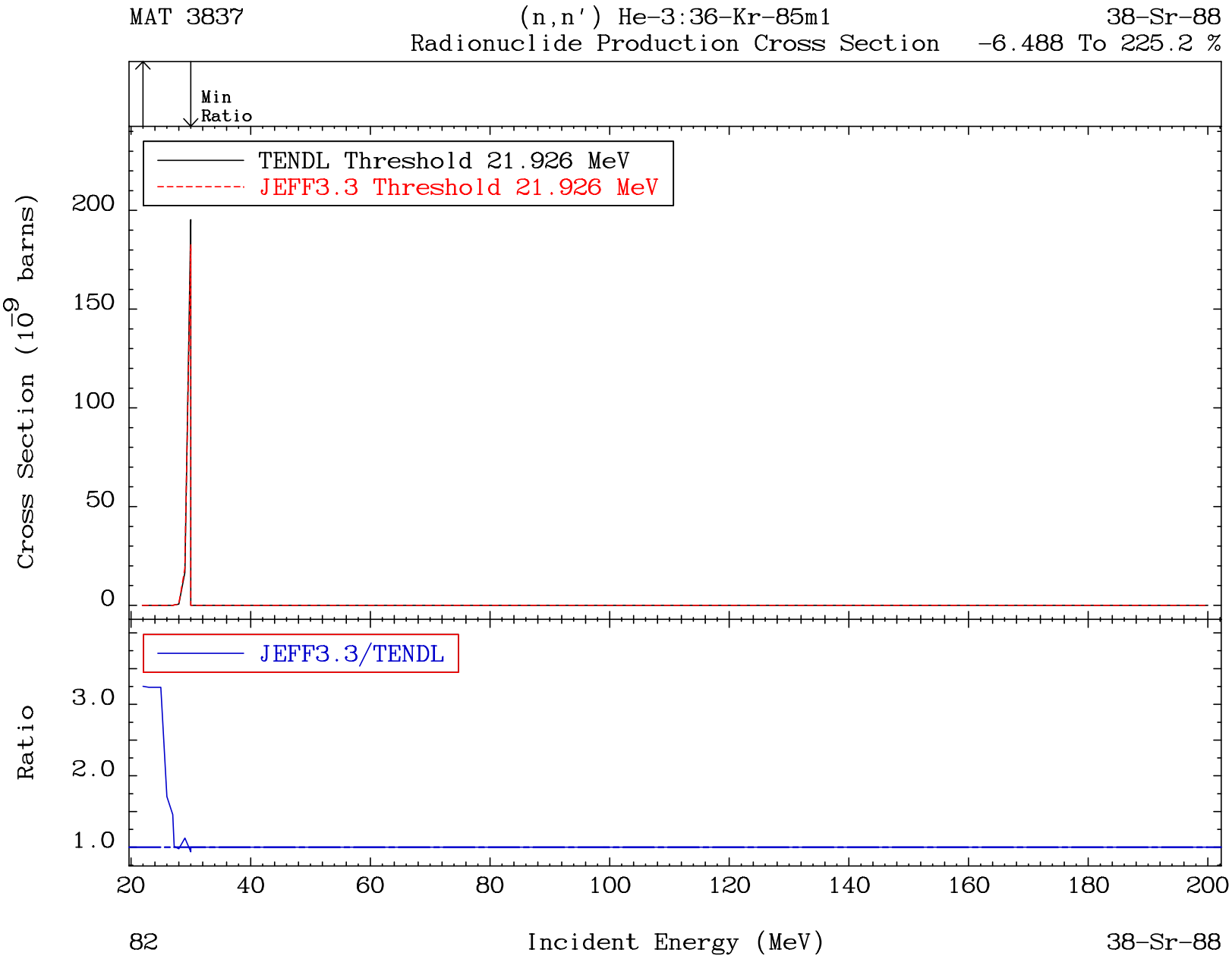

MAT 3837
(n,2n) α:36-Kr-83g
38-Sr-88
Radionuclide Production Cross Section -99.99 To 9999. %
Max
Ratio
TENDL Threshold 18.639 MeV
JEFF3.3 Threshold 18.639 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
38-Sr-88

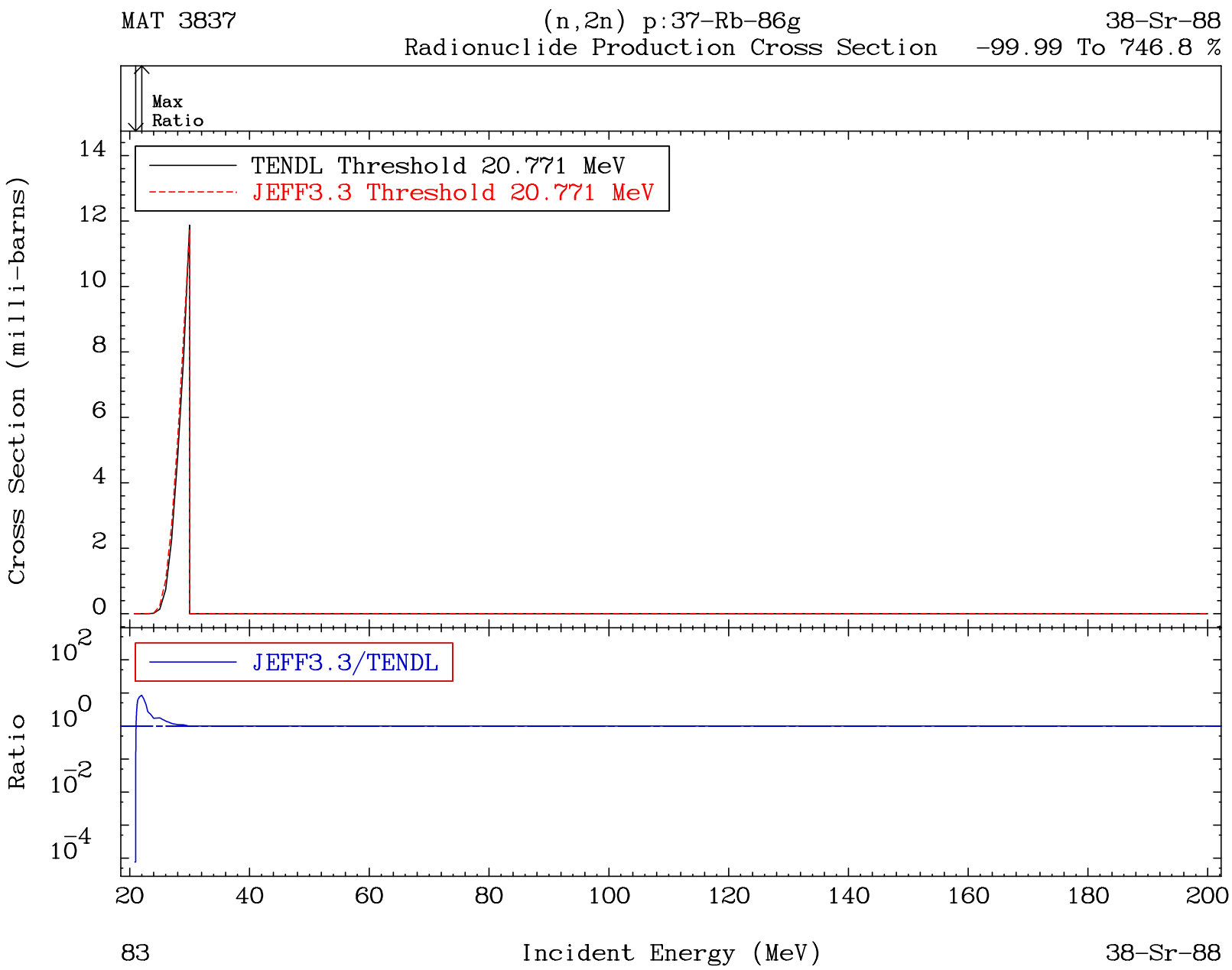

MAT 3837
(n,2n) α:36-Kr-83m2
38-Sr-88
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 18.681 MeV
JEFF3.3 Threshold 21.000 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
38-Sr-88

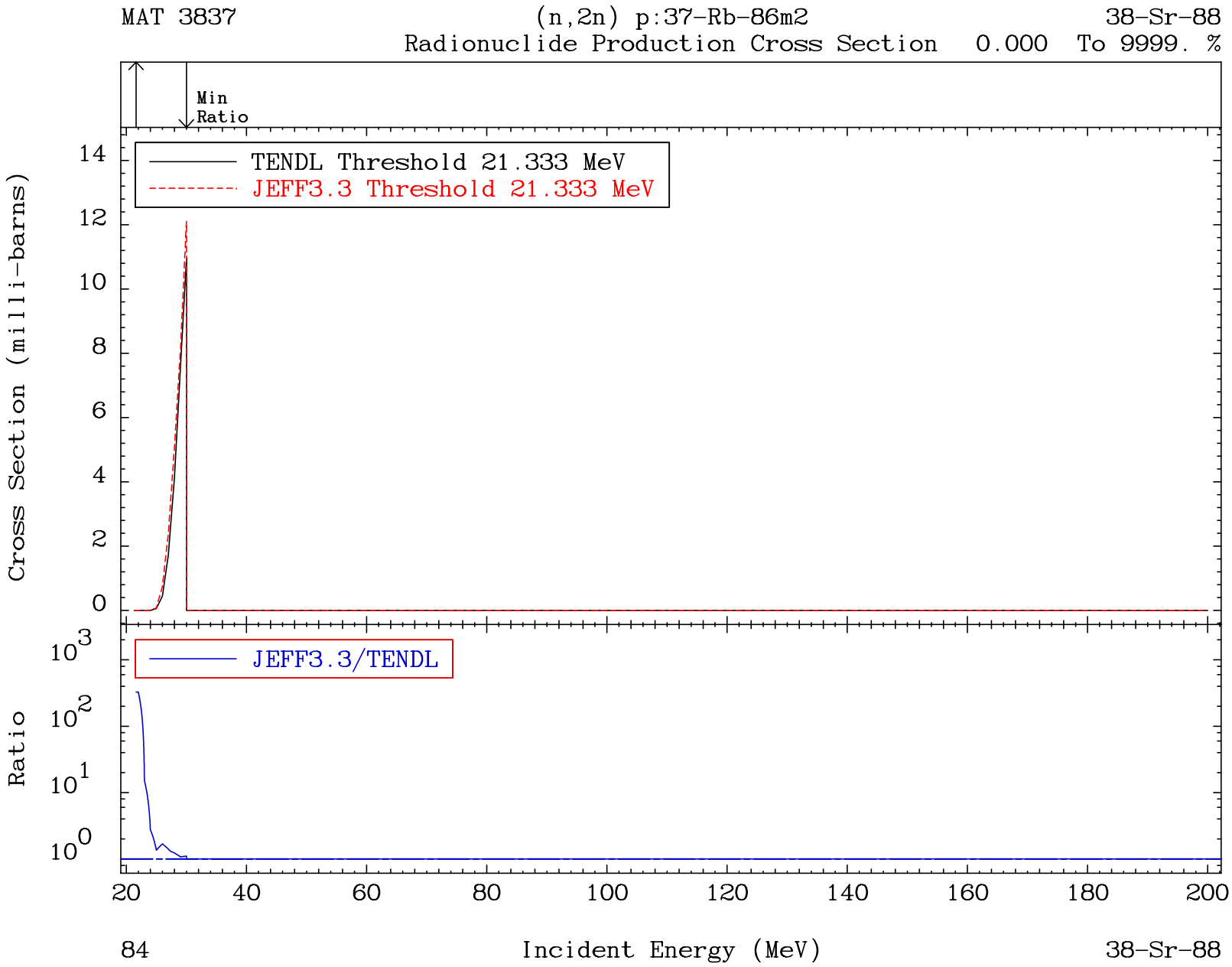

MAT 3837
(n,n') d:37-Rb-86g
38-Sr-88
Radionuclide Production Cross Section -10.71 To 103.4 %
Max Ratio
Min Ratio
TENDL Threshold 18.520 MeV
JEFF3.3 Threshold 18.520 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.8
1.2
1.6
2.0
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
38-Sr-88

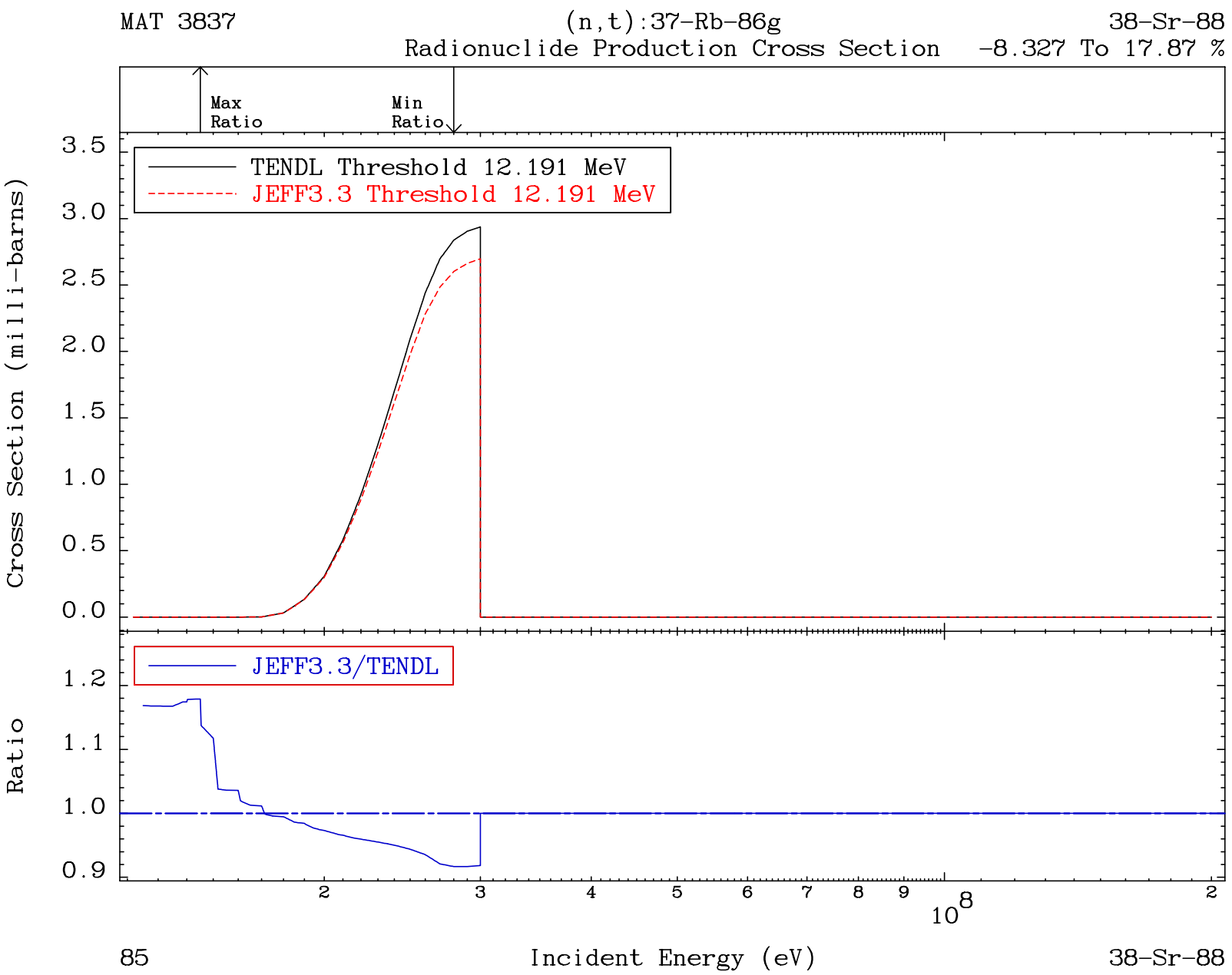

MAT 3837
(n,n') d:37-Rb-86m2
38-Sr-88
Radionuclide Production Cross Section -8.603 To 2275. %
Max Ratio
Min Ratio
TENDL Threshold 19.083 MeV
JEFF3.3 Threshold 19.083 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
80
38-Sr-88

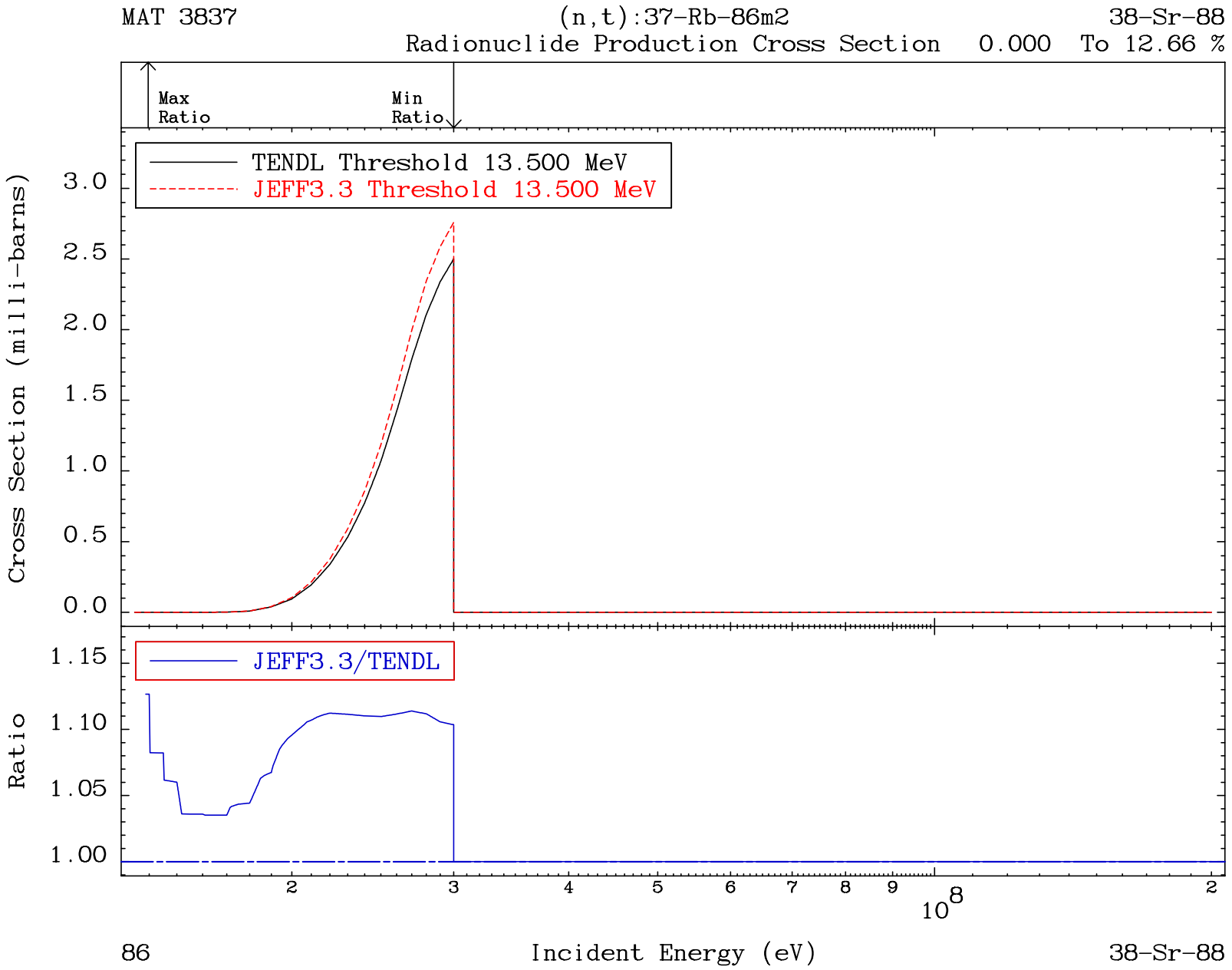

MAT 3837
(n,n') He-3:36-Kr-85g
38-Sr-88
Radionuclide Production Cross Section
-21.97 To 79.30 %
Min
Ratio
TENDL Threshold 21.618 MeV
JEFF3.3 Threshold 21.618 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
0.8
20
40
60
80
100
120
140
160
180
200
81
Incident Energy (MeV)
38-Sr-88

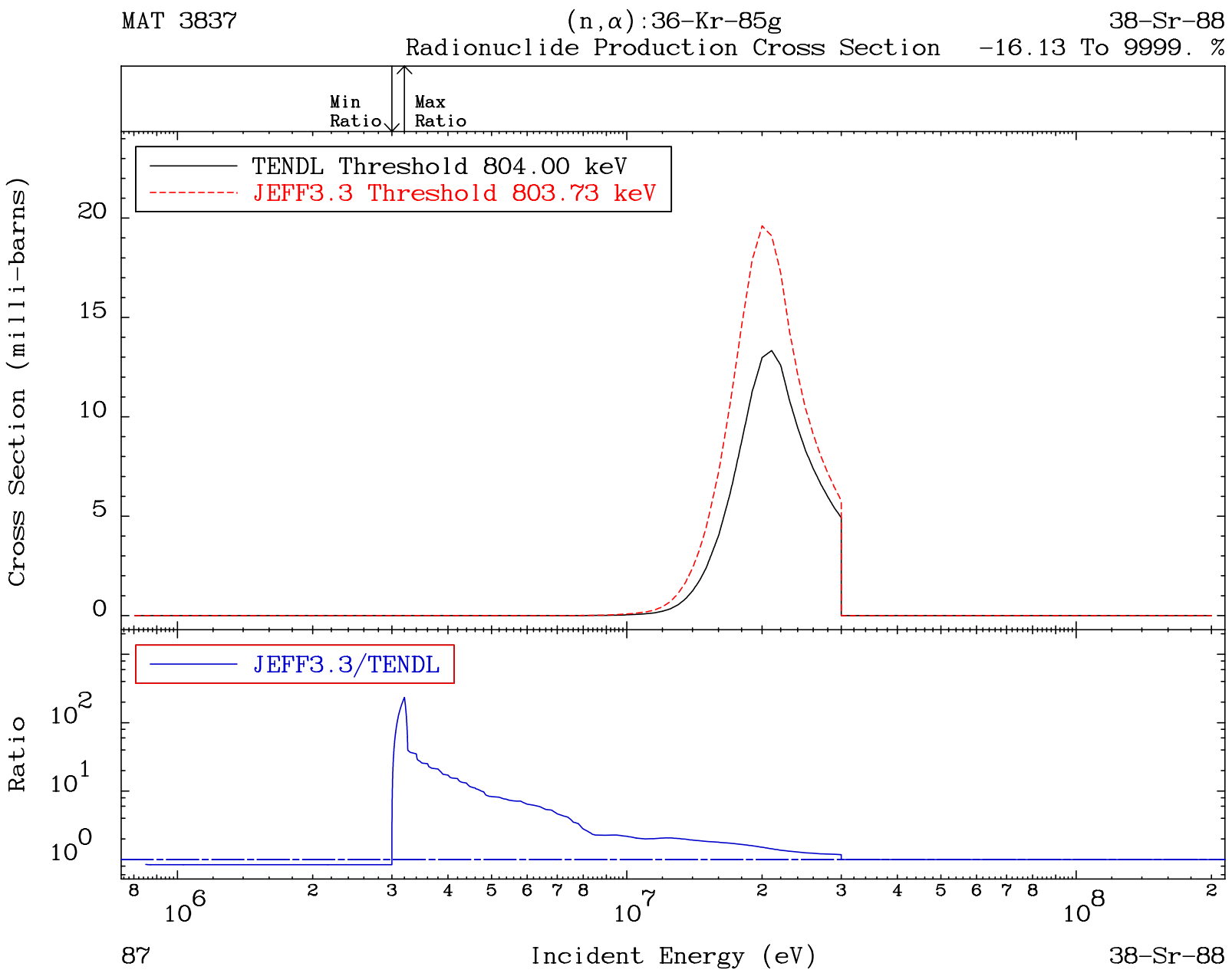

MAT 3837
(n,n') He-3:36-Kr-85m1
38-Sr-88
Radionuclide Production Cross Section -6.488 To 225.2 %
Min Ratio
TENDL Threshold 21.926 MeV
JEFF3.3 Threshold 21.926 MeV
Cross Section (10^{-9} barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
20
40
60
80
100
120
140
160
180
200
82
Incident Energy (MeV)
38-Sr-88

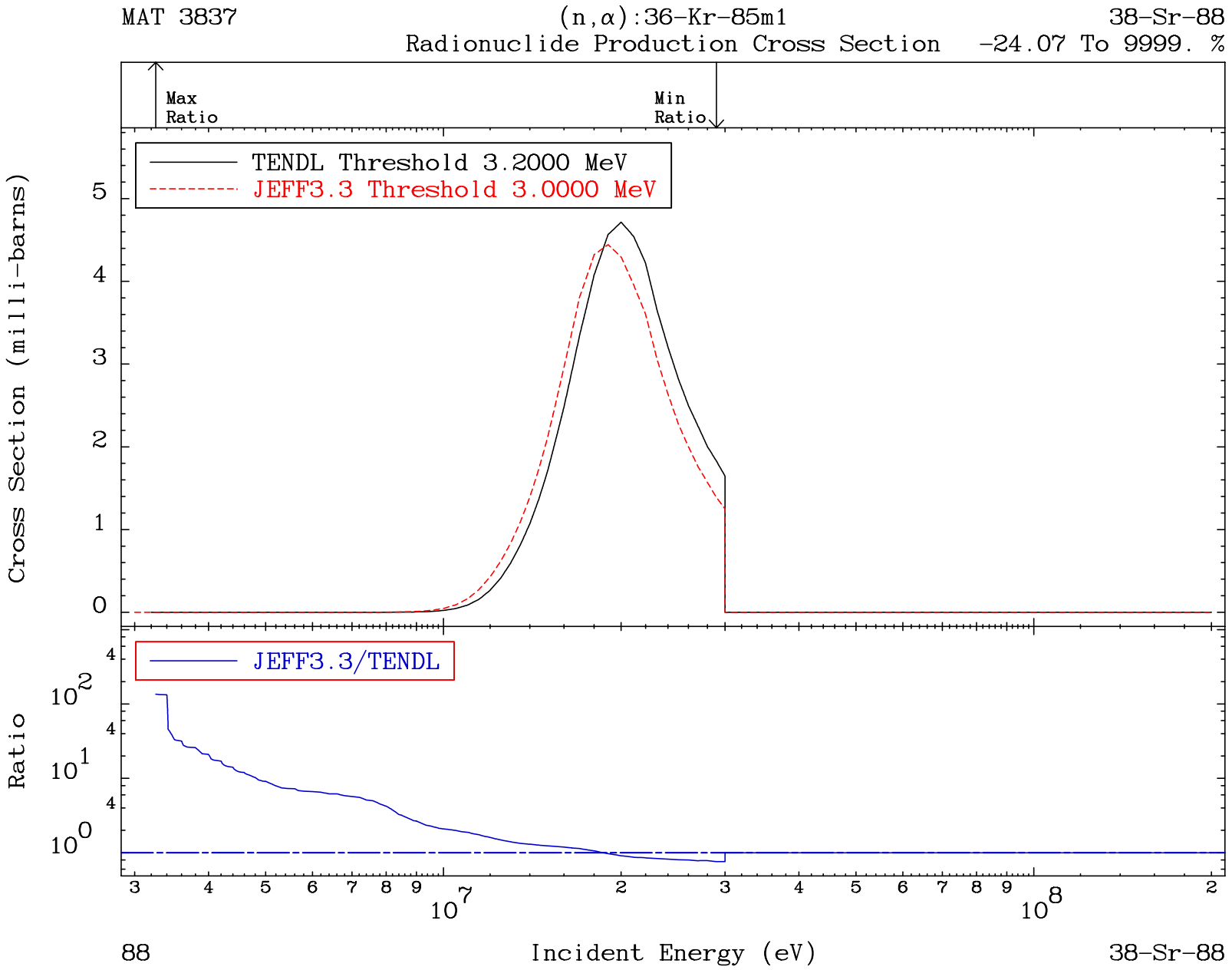

MAT 3837
(n,2n) p:37-Rb-86g
38-Sr-88
Radionuclide Production Cross Section -99.99 To 746.8 %
Max Ratio
TENDL Threshold 20.771 MeV
JEFF3.3 Threshold 20.771 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
38-Sr-88

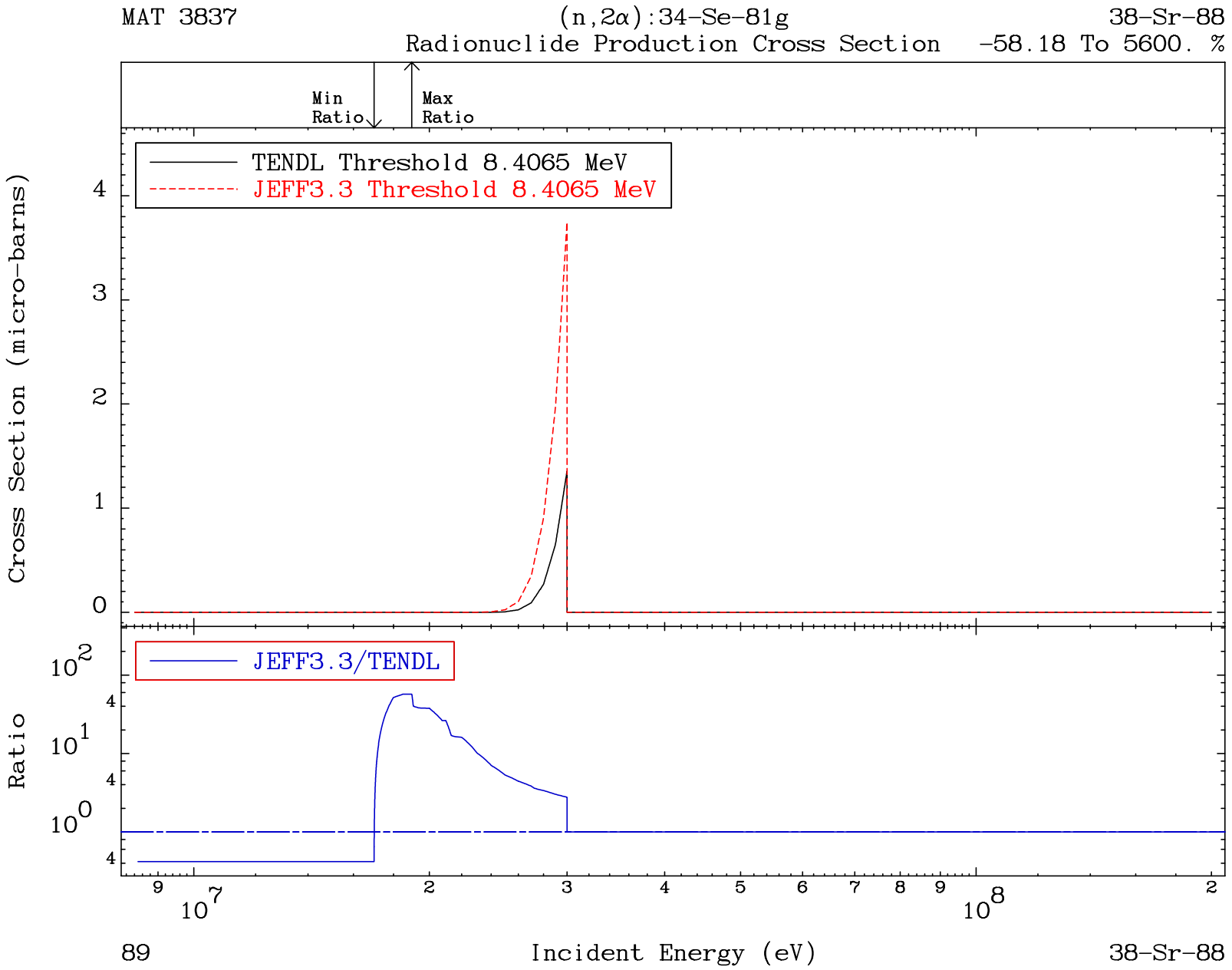

MAT 3837
(n,2n) p:37-Rb-86m2
38-Sr-88
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 21.333 MeV
JEFF3.3 Threshold 21.333 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (MeV)
84
38-Sr-88

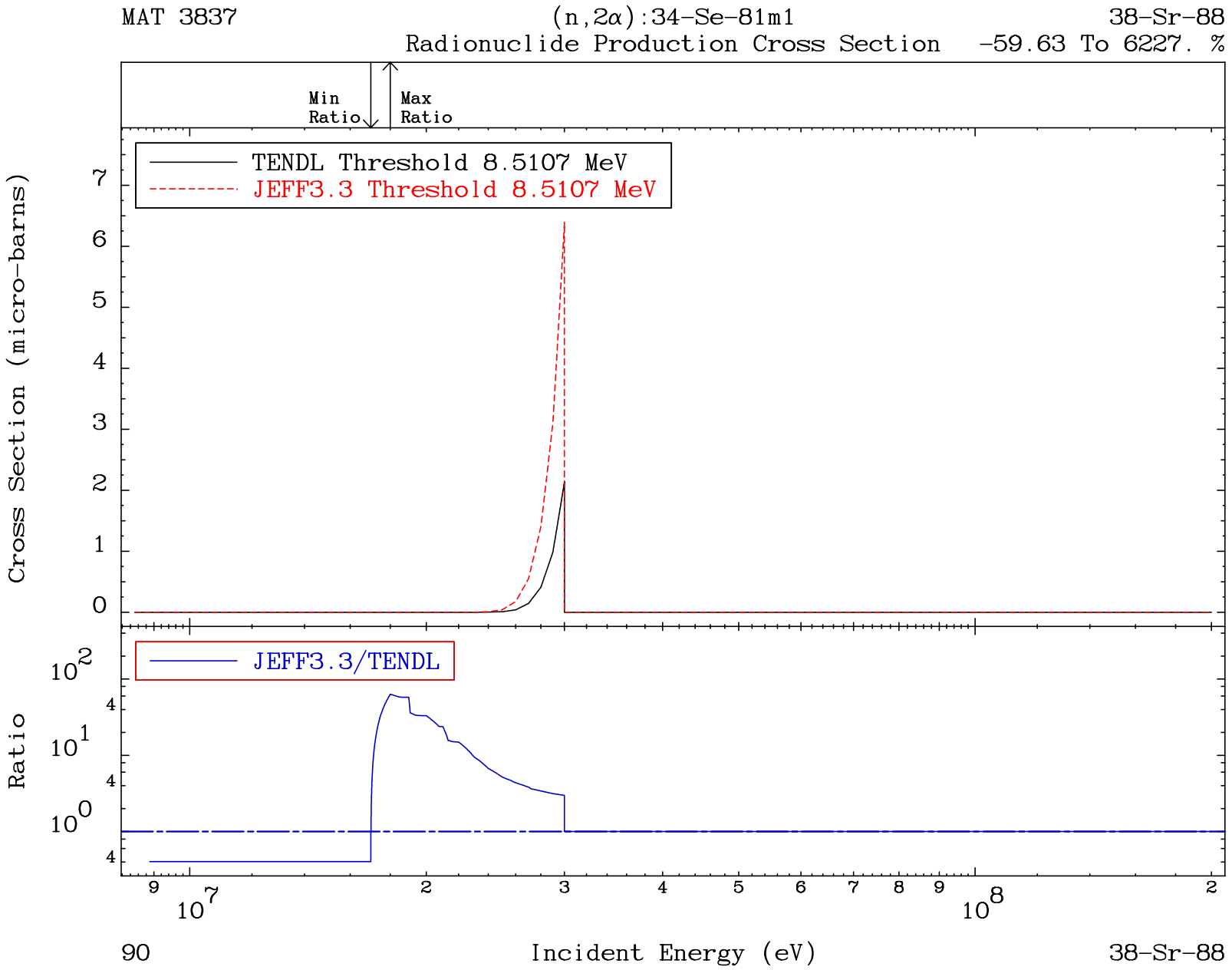

MAT 3837
(n,t):37-Rb-86g
38-Sr-88
Radionuclide Production Cross Section -8.327 To 17.87 %
Max Ratio
Min Ratio
TENDL Threshold 12.191 MeV
JEFF3.3 Threshold 12.191 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
38-Sr-88

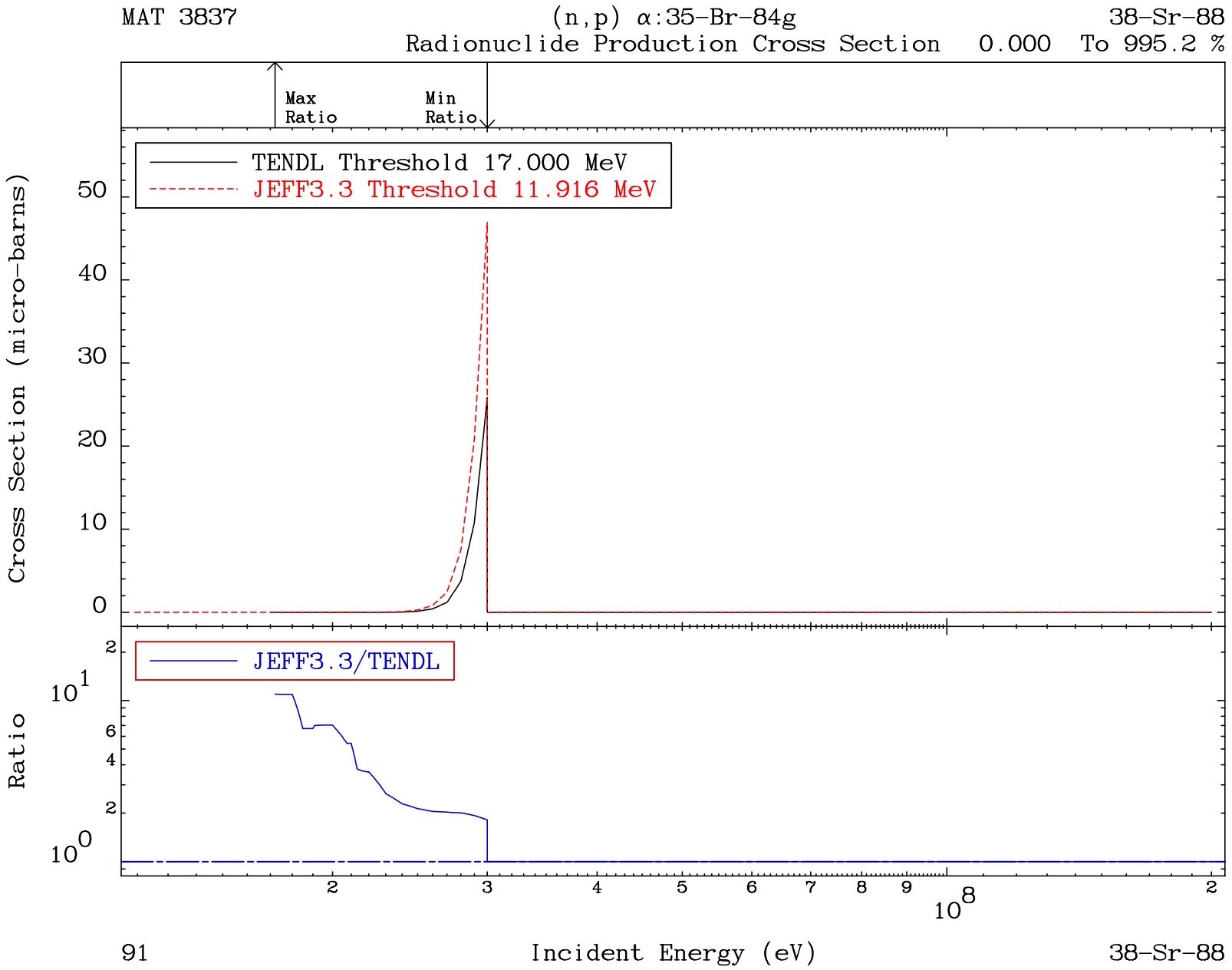

MAT 3837
(n,t):37-Rb-86m2
38-Sr-88
Radionuclide Production Cross Section 0.000 To 12.66 %
Max Ratio
Min Ratio
TENDL Threshold 13.500 MeV
JEFF3.3 Threshold 13.500 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
38-Sr-88

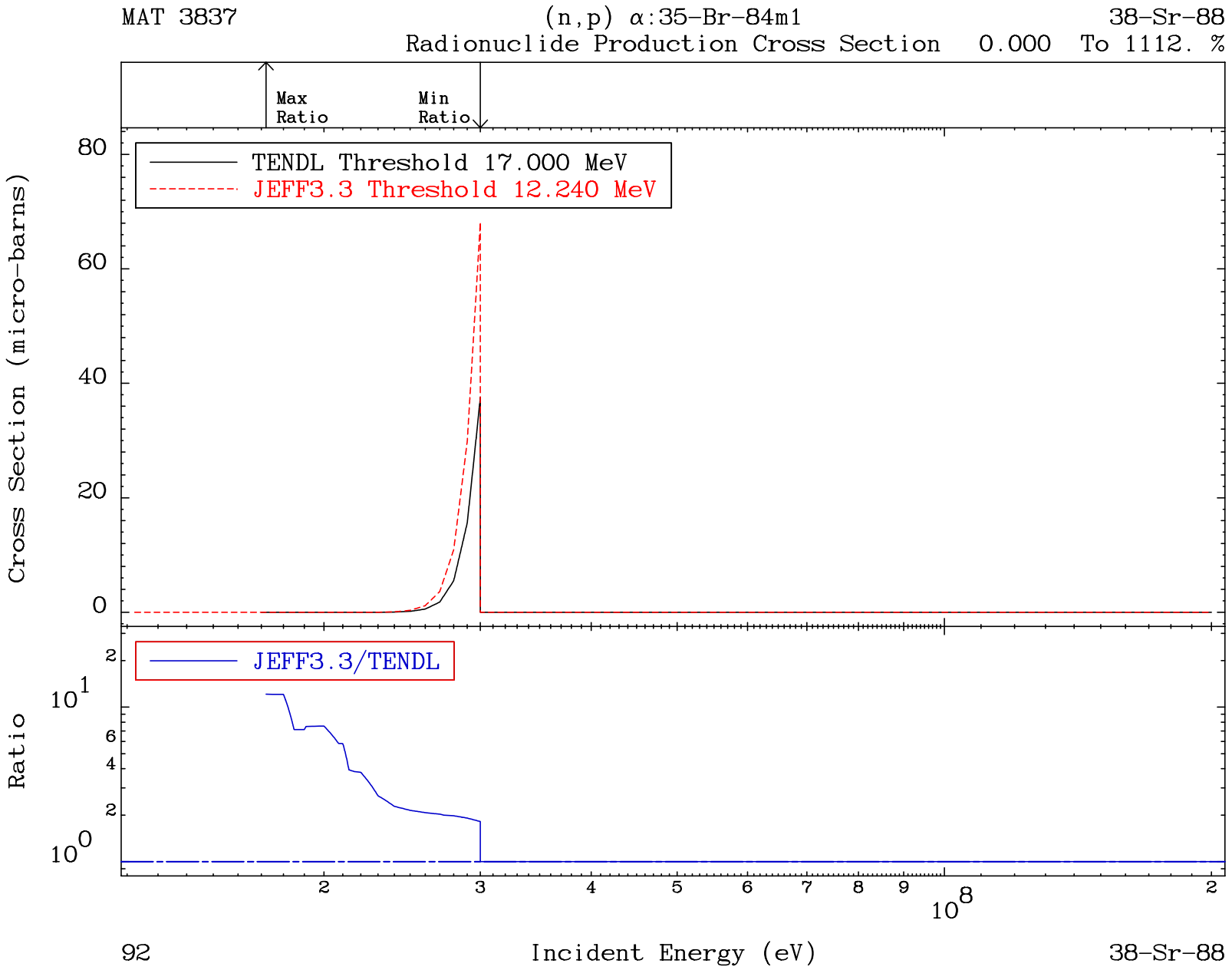

MAT 3837
(n,α):36-Kr-85g
38-Sr-88
Radionuclide Production Cross Section -16.13 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 804.00 keV
JEFF3.3 Threshold 803.73 keV
Cross Section (milli-barns)
0
5
10
15
20
JEFF3.3/TENDL
Ratio
10^0
10^1
10^2
10^6
10^7
10^8
Incident Energy (eV)
87
38-Sr-88

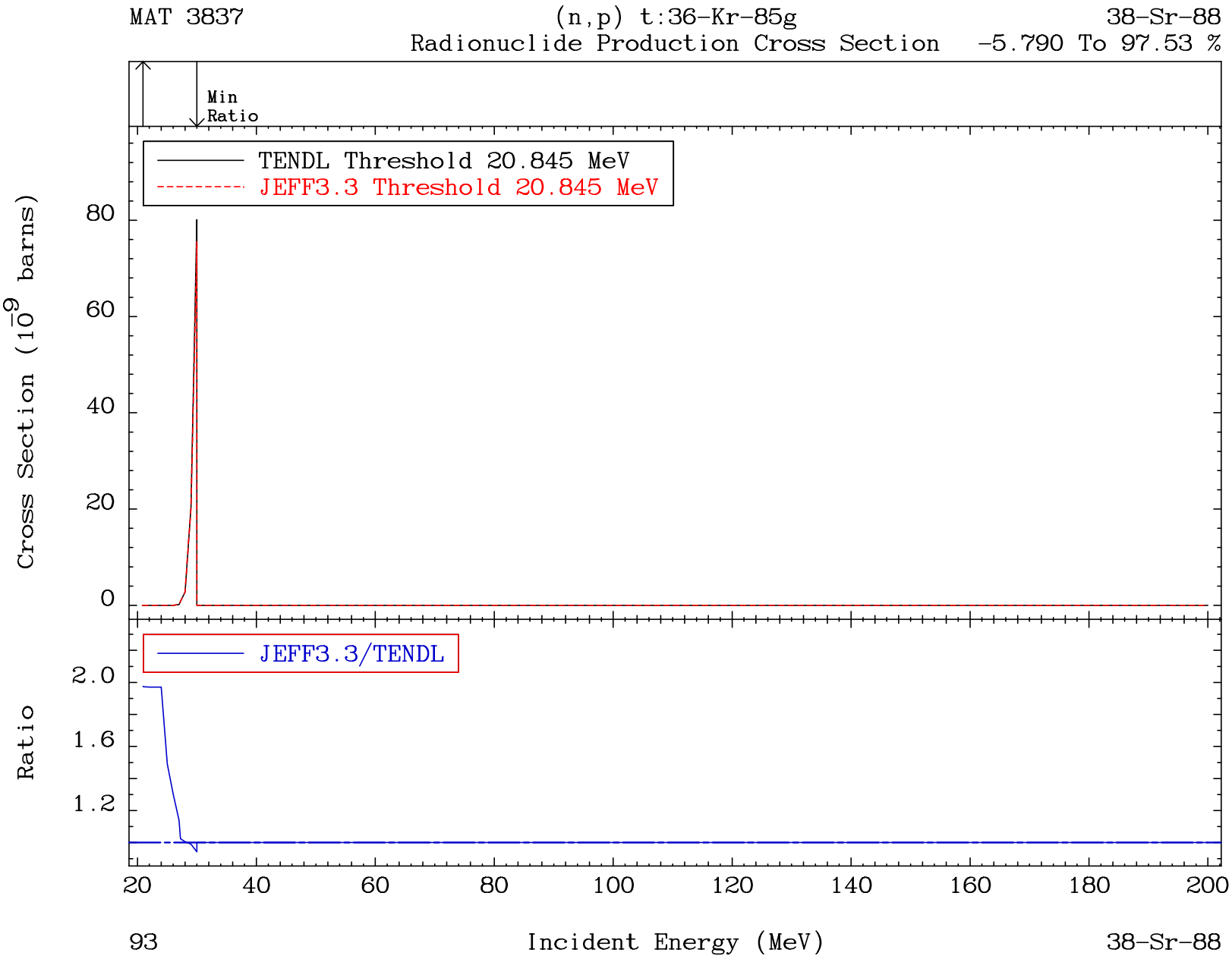

MAT 3837
(n,α):36-Kr-85m1
38-Sr-88
Radionuclide Production Cross Section -24.07 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.2000 MeV
JEFF3.3 Threshold 3.0000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
88
38-Sr-88

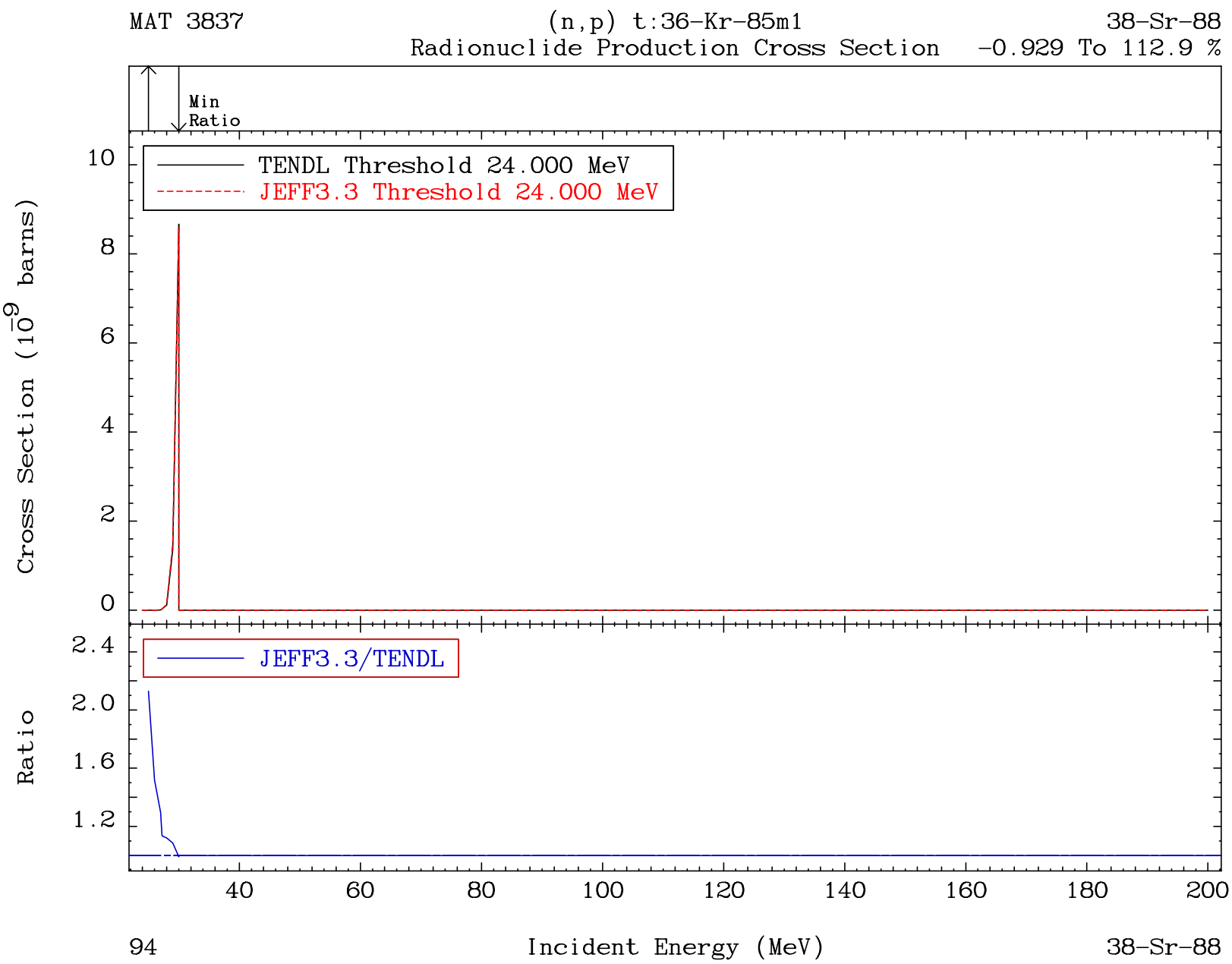

MAT 3837
(n,2α):34-Se-81g
38-Sr-88
Radionuclide Production Cross Section -58.18 To 5600. %
Min Ratio
Max Ratio
TENDL Threshold 8.4065 MeV
JEFF3.3 Threshold 8.4065 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
89
38-Sr-88


MAT 3837
(n,2α):34-Se-81m1
38-Sr-88
Radionuclide Production Cross Section -59.63 To 6227. %
Min Ratio
Max Ratio
TENDL Threshold 8.5107 MeV
JEFF3.3 Threshold 8.5107 MeV
Cross Section (micro-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
90
38-Sr-88


MAT 3837
(n,p) α:35-Br-84g
38-Sr-88
Radionuclide Production Cross Section 0.000 To 995.2 %
Max Ratio
Min Ratio
TENDL Threshold 17.000 MeV
JEFF3.3 Threshold 11.916 MeV
Cross Section (micro-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
38-Sr-88


MAT 3837
(n,p) α:35-Br-84m1
38-Sr-88
Radionuclide Production Cross Section 0.000 To 1112. %
Max Ratio
Min Ratio
TENDL Threshold 17.000 MeV
JEFF3.3 Threshold 12.240 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
38-Sr-88


MAT 3837
(n,p) t:36-Kr-85g
38-Sr-88
Radionuclide Production Cross Section
-5.790 To 97.53 %
Min
Ratio
TENDL Threshold 20.845 MeV
JEFF3.3 Threshold 20.845 MeV
Cross Section (10^{-9} barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
20
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
38-Sr-88


MAT 3837
(n,p) t:36-Kr-85m1
38-Sr-88
Radionuclide Production Cross Section -0.929 To 112.9 %
Min Ratio
TENDL Threshold 24.000 MeV
JEFF3.3 Threshold 24.000 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (MeV)
94
38-Sr-88