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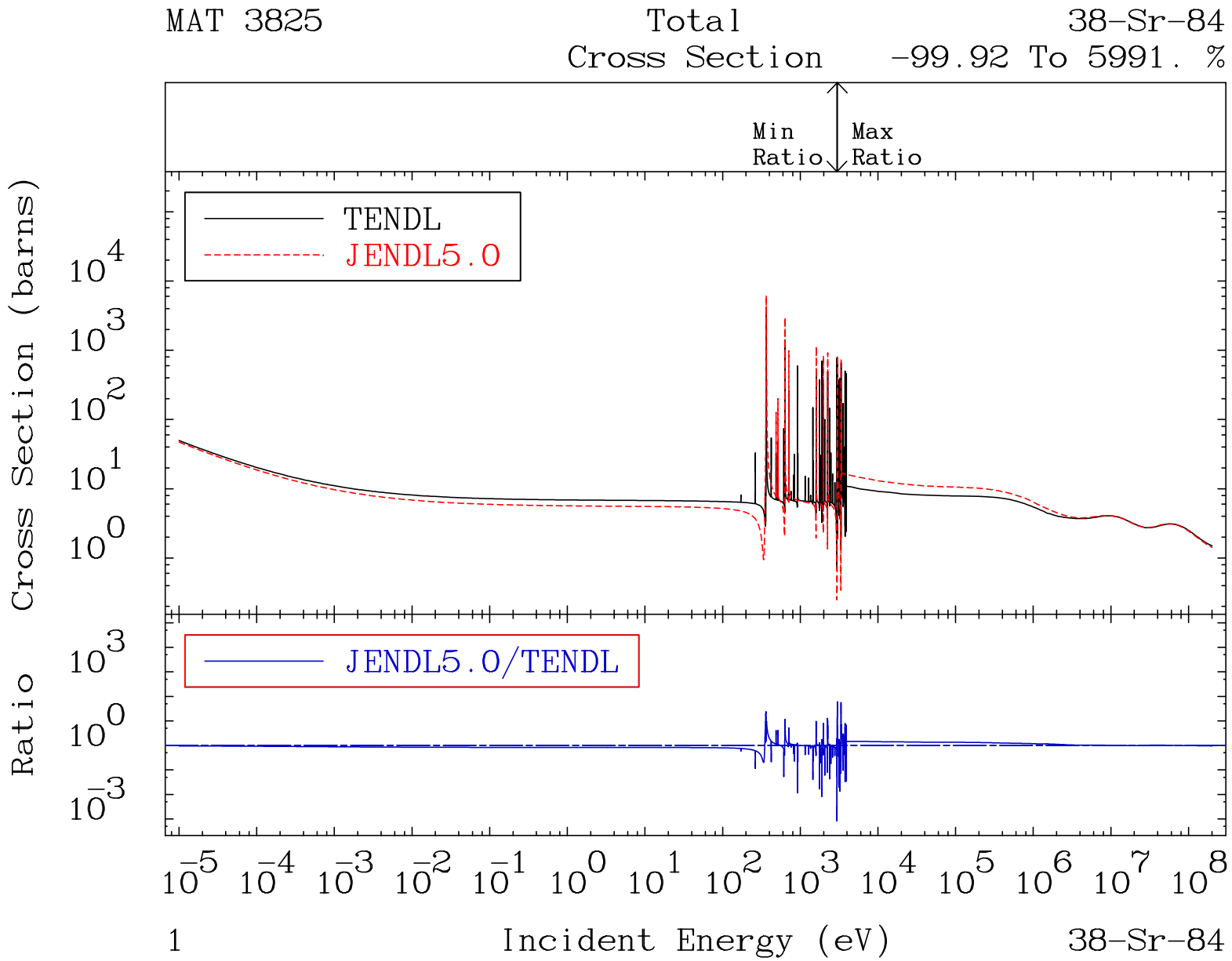
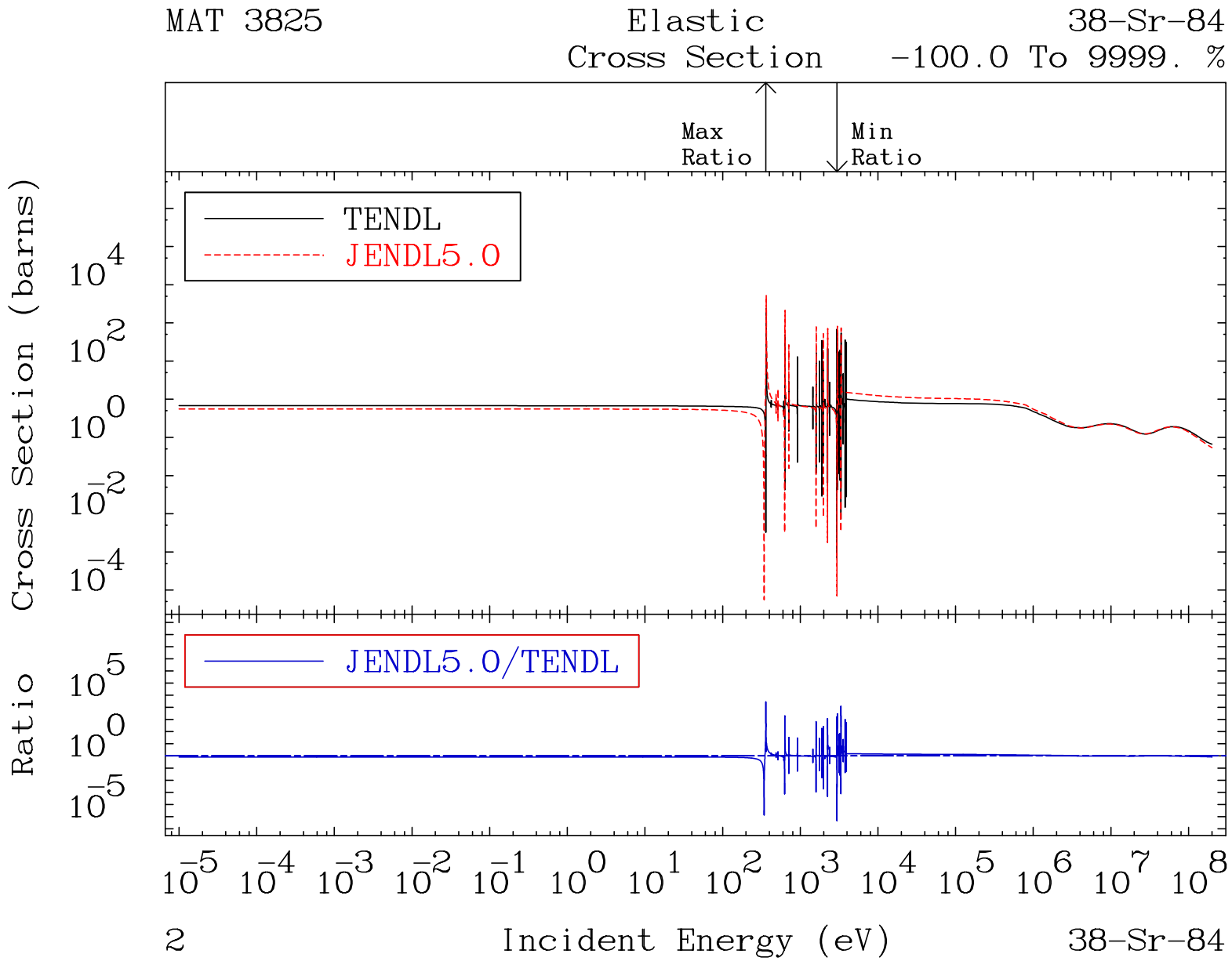
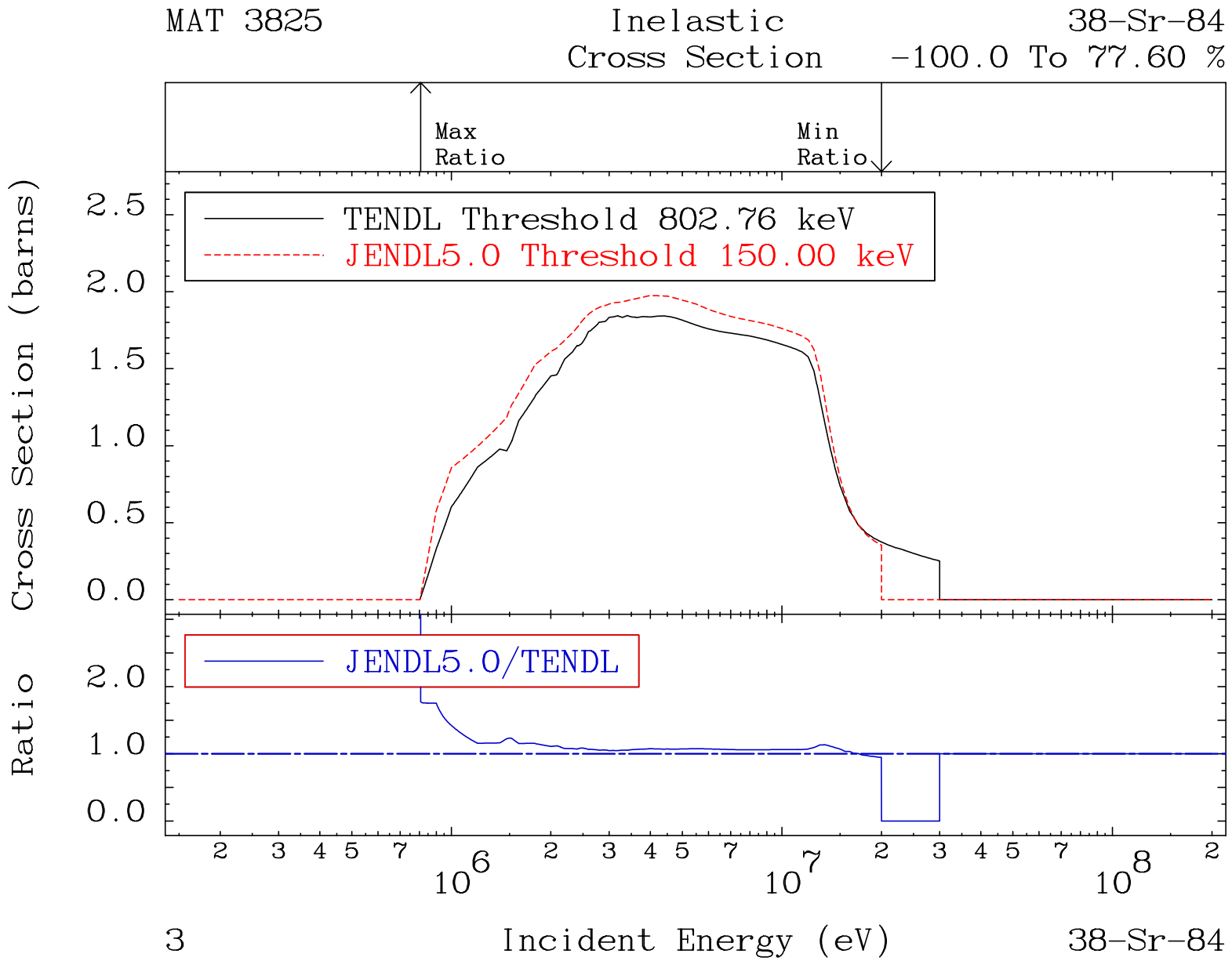
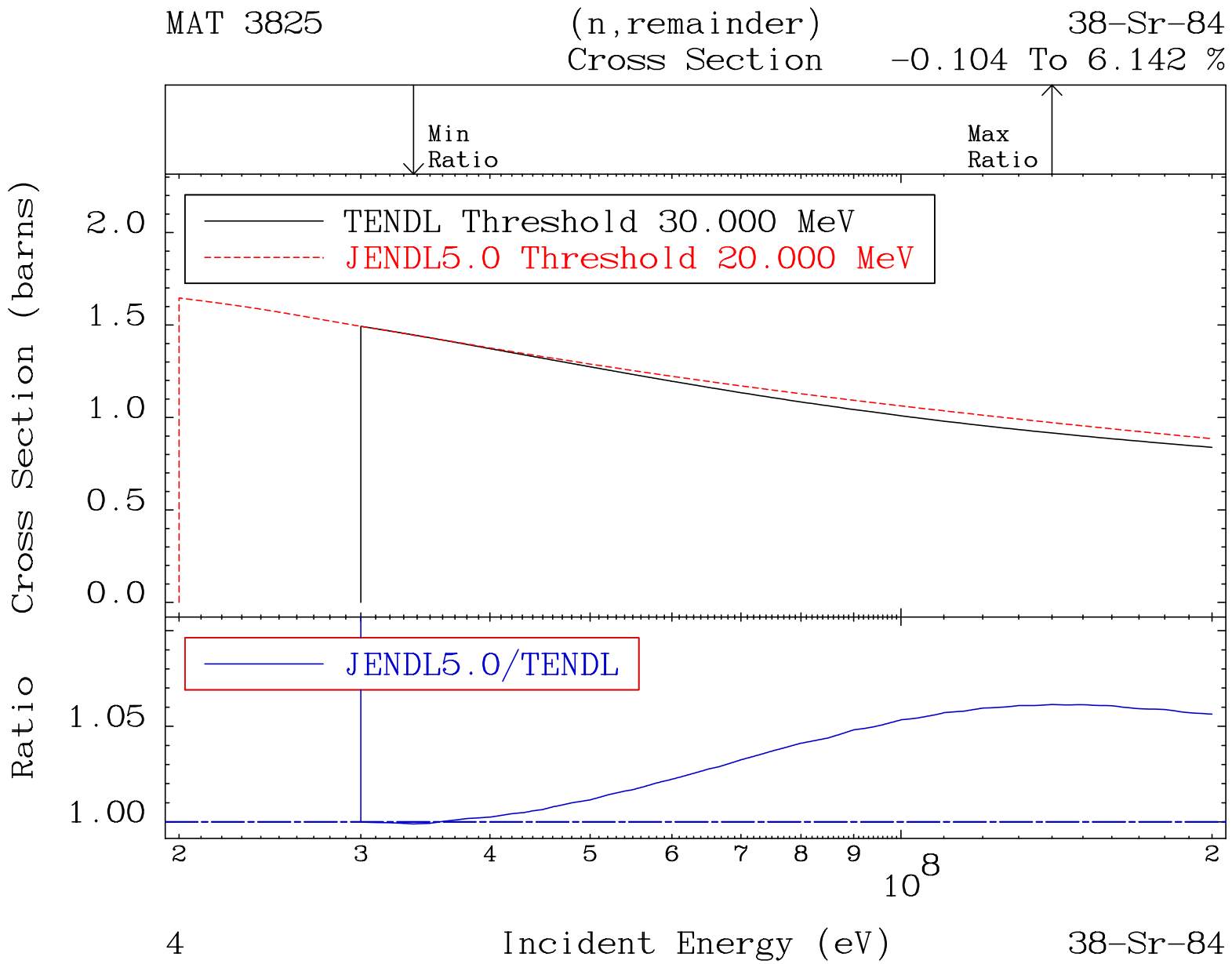
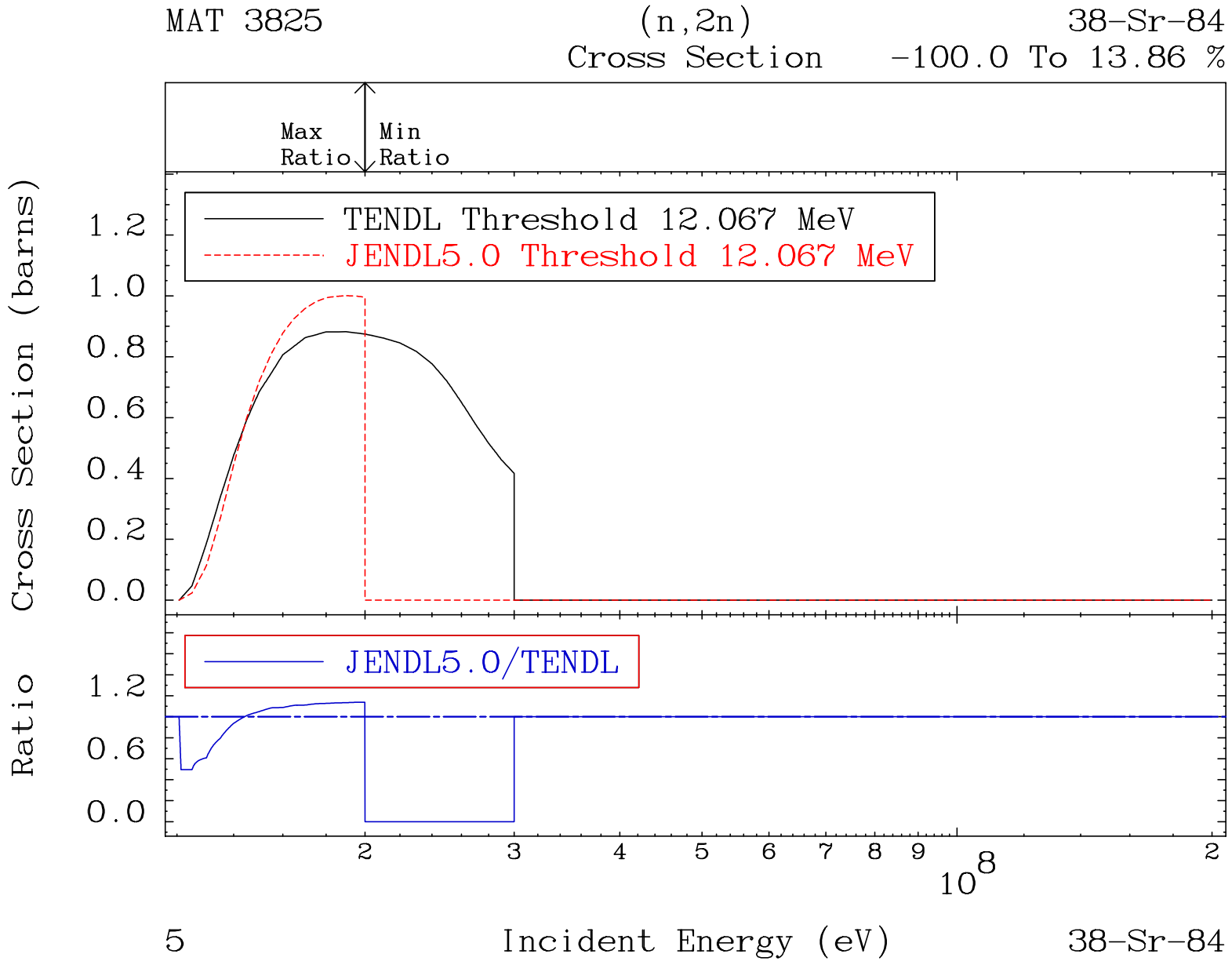
Press Mouse Button to Start

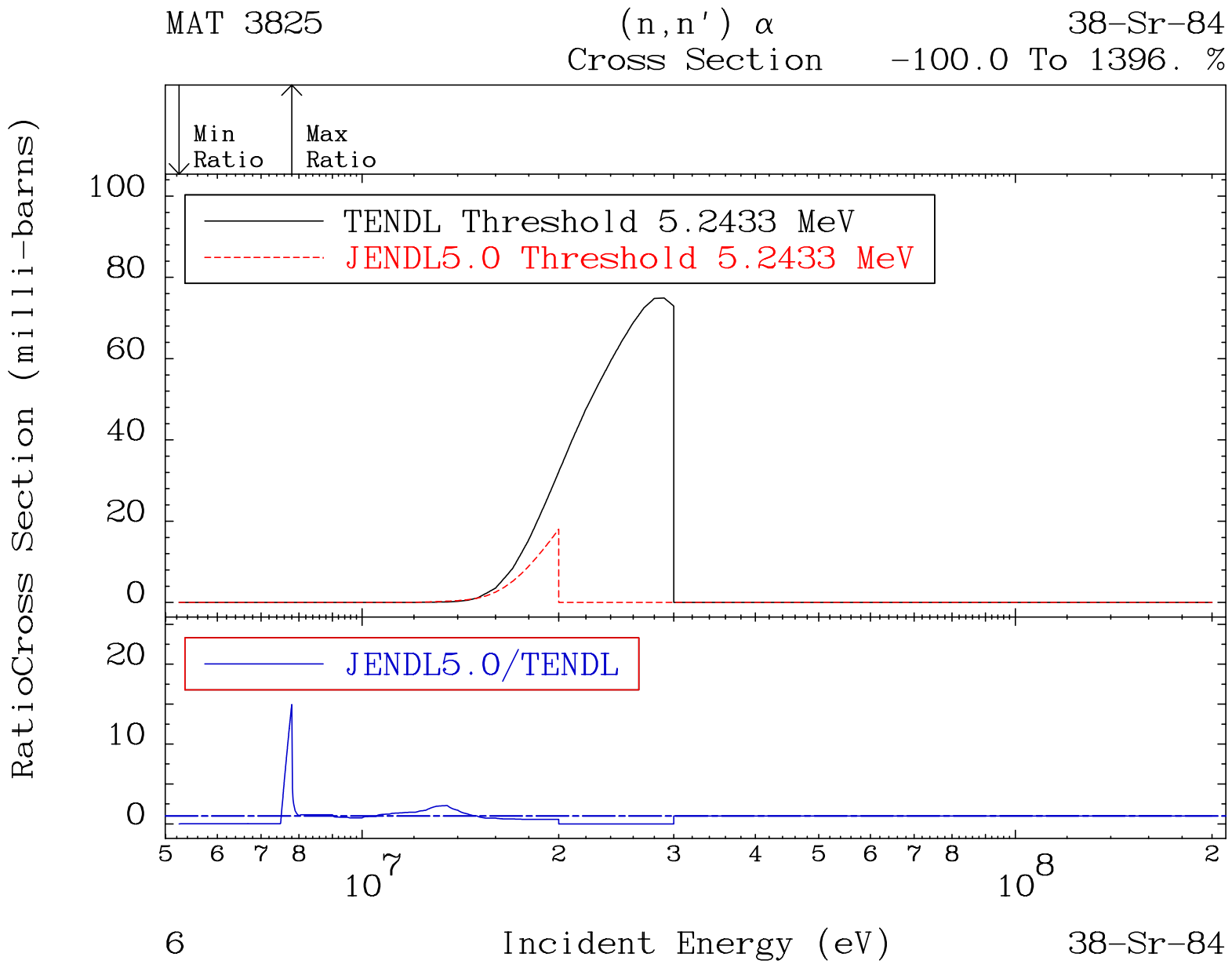

MAT 3825
Total
Cross Section
38-Sr-84
-99.92 To 5991. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
38-Sr-84

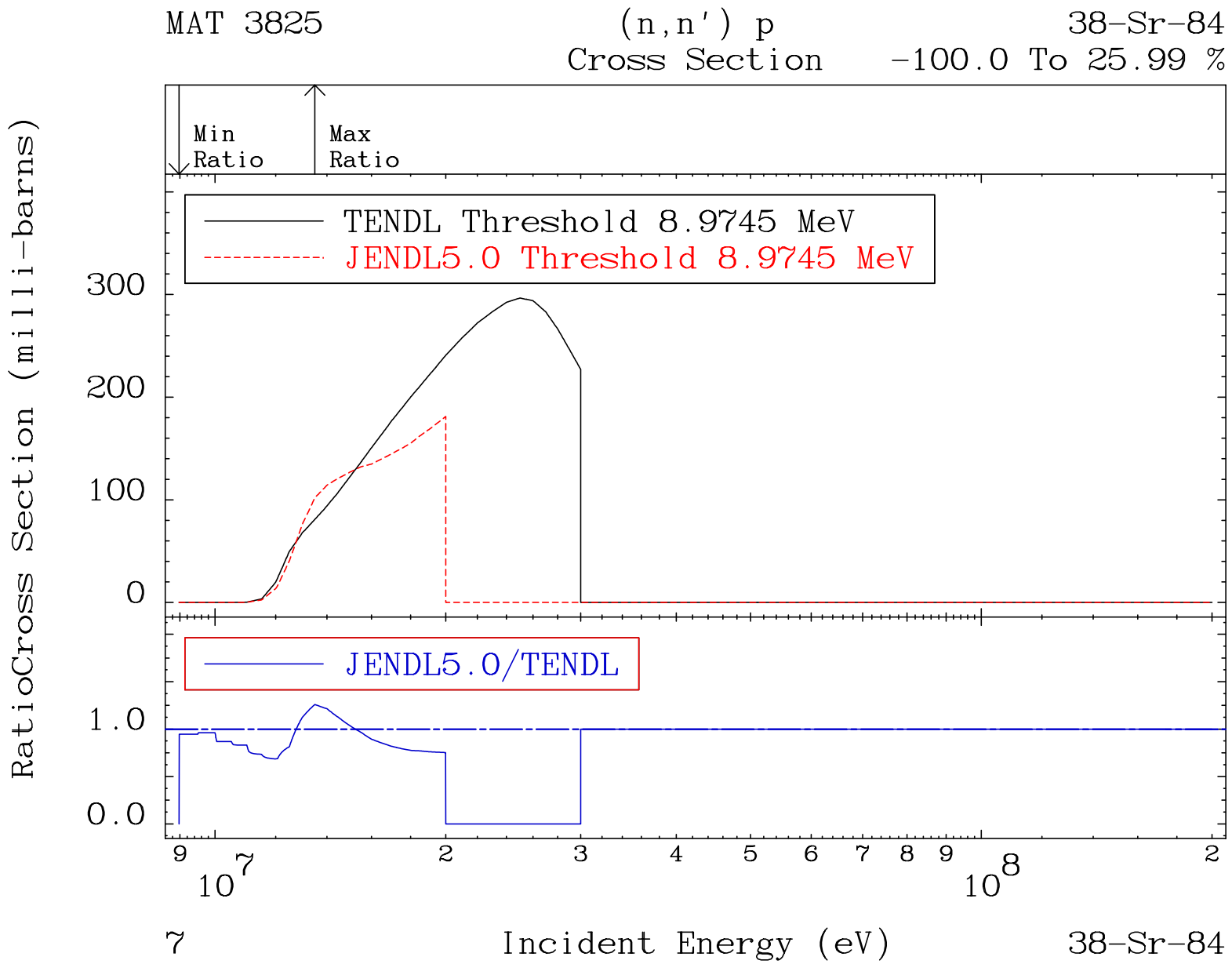

MAT 3825
Elastic
Cross Section
38-Sr-84
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
38-Sr-84

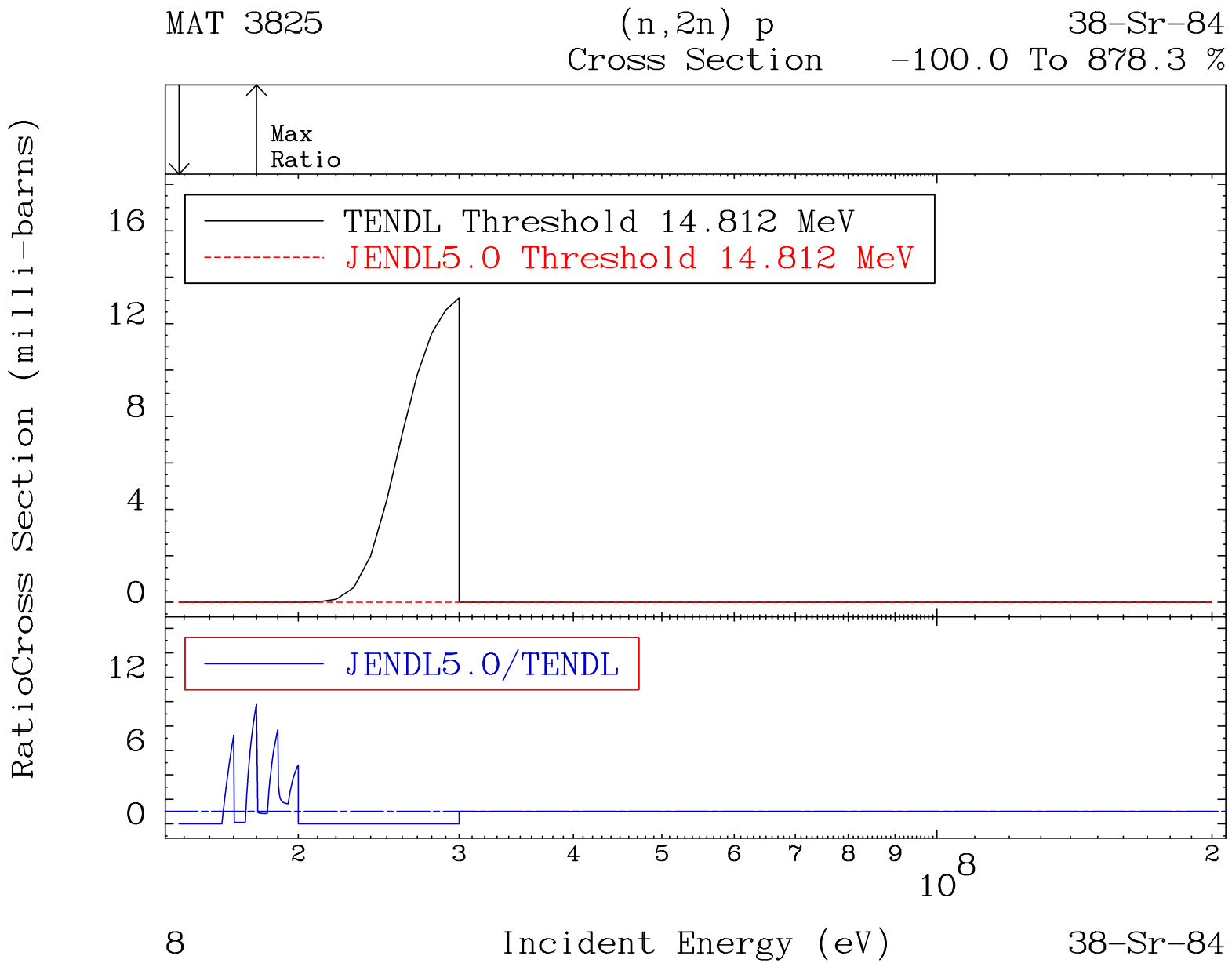

MAT 3825
Inelastic
Cross Section
38-Sr-84
-100.0 To 77.60 %
Max
Ratio
Min
Ratio
TENDL Threshold 802.76 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
3
38-Sr-84

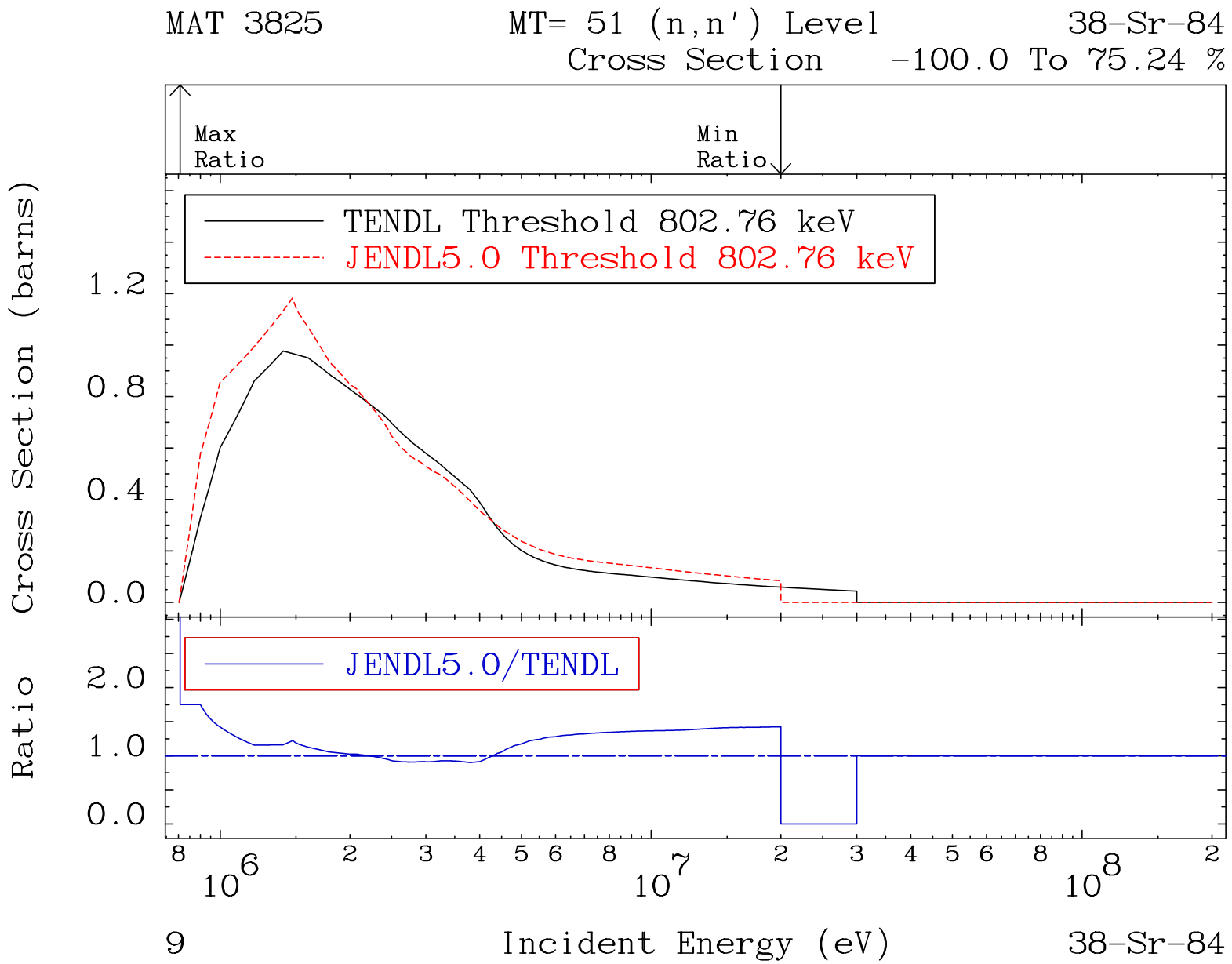

MAT 3825
(n,remainder)
Cross Section
38-Sr-84
-0.104 To 6.142 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.05
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
38-Sr-84

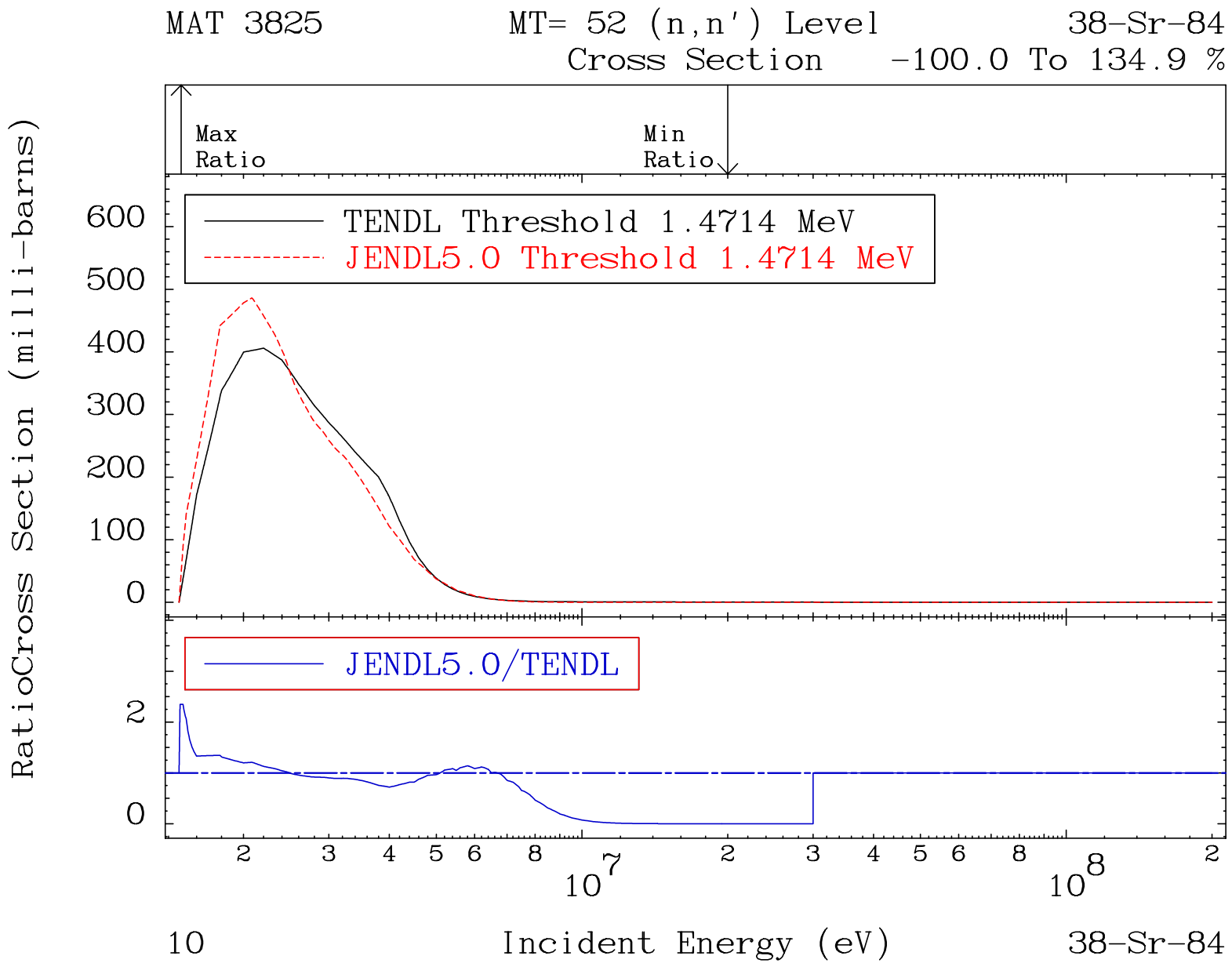

MAT 3825
(n,2n)
Cross Section
38-Sr-84
-100.0 To 13.86 %
Max Ratio
Min Ratio
TENDL Threshold 12.067 MeV
JENDL5.0 Threshold 12.067 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
38-Sr-84

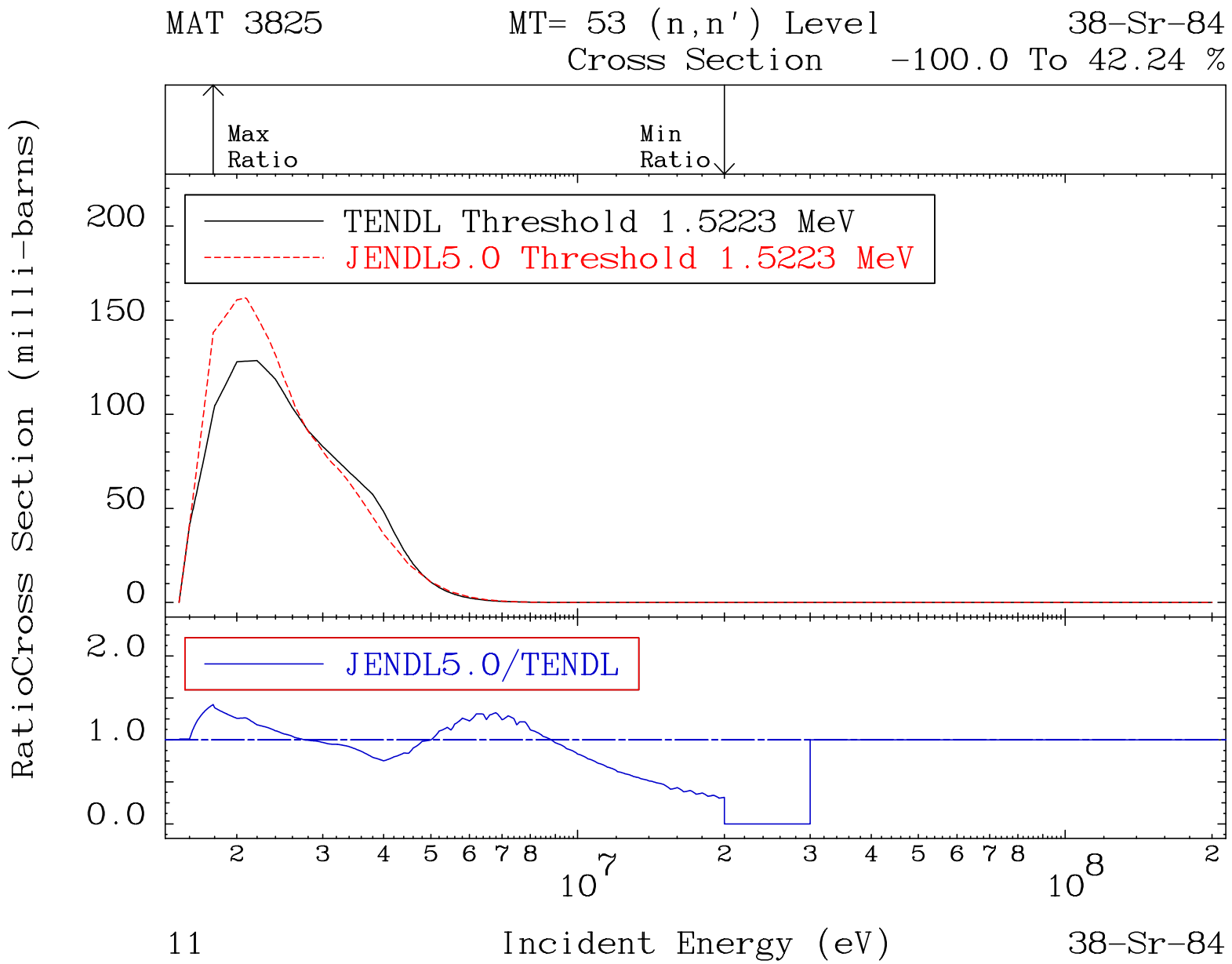

MAT 3825
(n,n') α
38-Sr-84
Cross Section
-100.0 To 1396. %
Min Ratio
Max Ratio
TENDL Threshold 5.2433 MeV
JENDL5.0 Threshold 5.2433 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
20
10
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
38-Sr-84

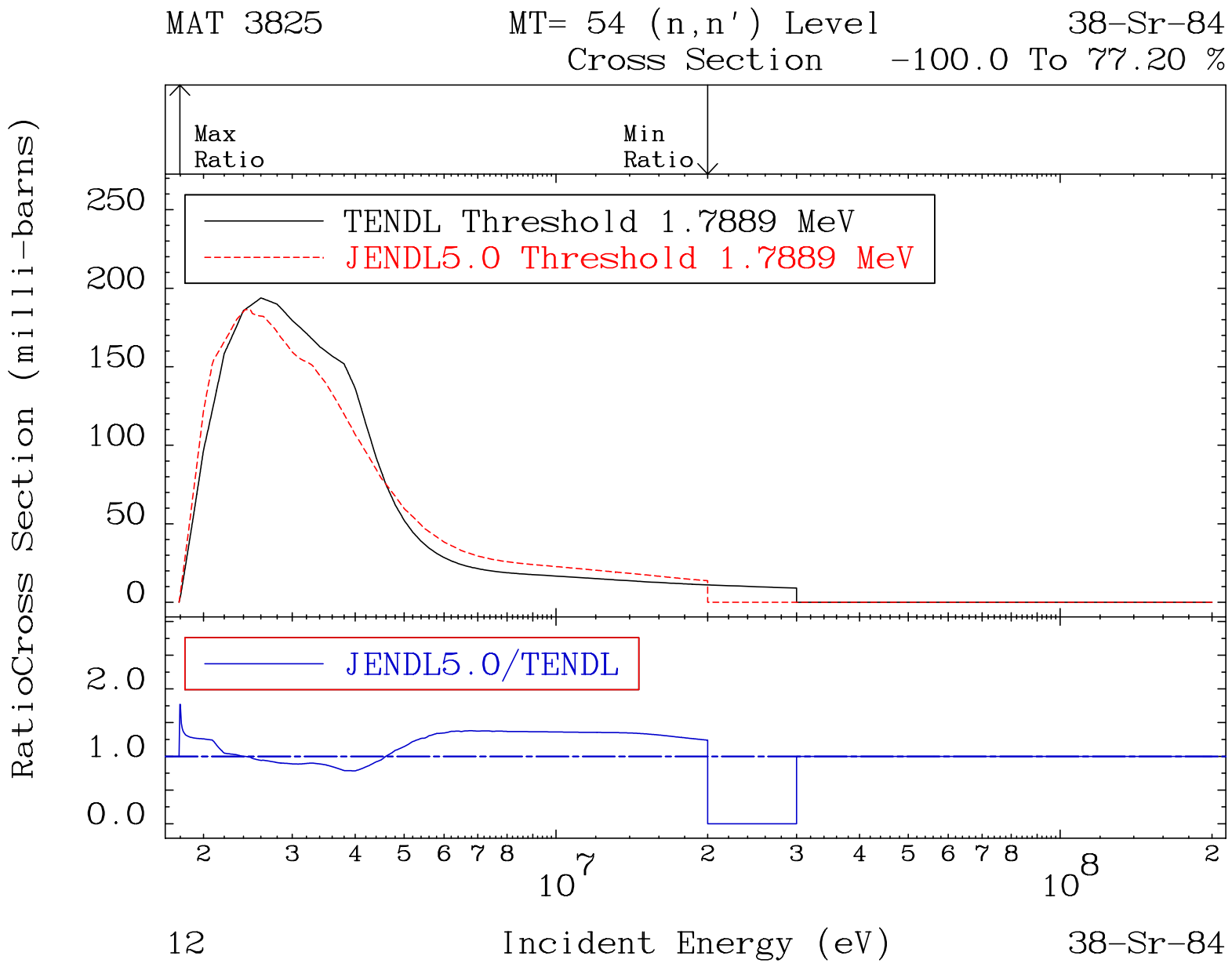

MAT 3825
(n,n') p
Cross Section
38-Sr-84
-100.0 To 25.99 %
Min Ratio
Max Ratio
TENDL Threshold 8.9745 MeV
JENDL5.0 Threshold 8.9745 MeV
300
200
100
0
JENDL5.0/TENDL
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
7
Incident Energy (eV)
38-Sr-84

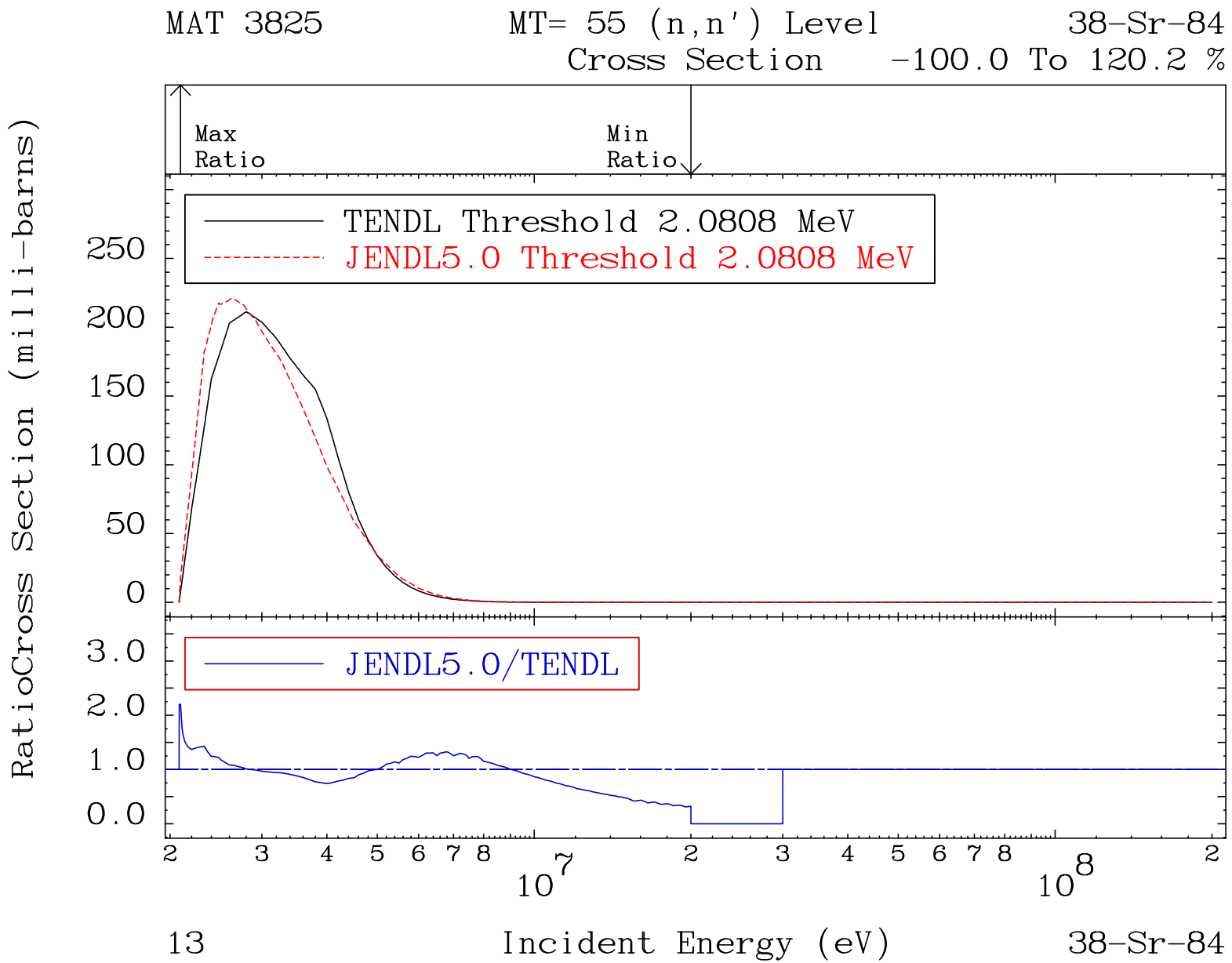

MAT 3825
(n,2n) p
Cross Section
38-Sr-84
-100.0 To 878.3 %
Max
Ratio
TENDL Threshold 14.812 MeV
JENDL5.0 Threshold 14.812 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
38-Sr-84

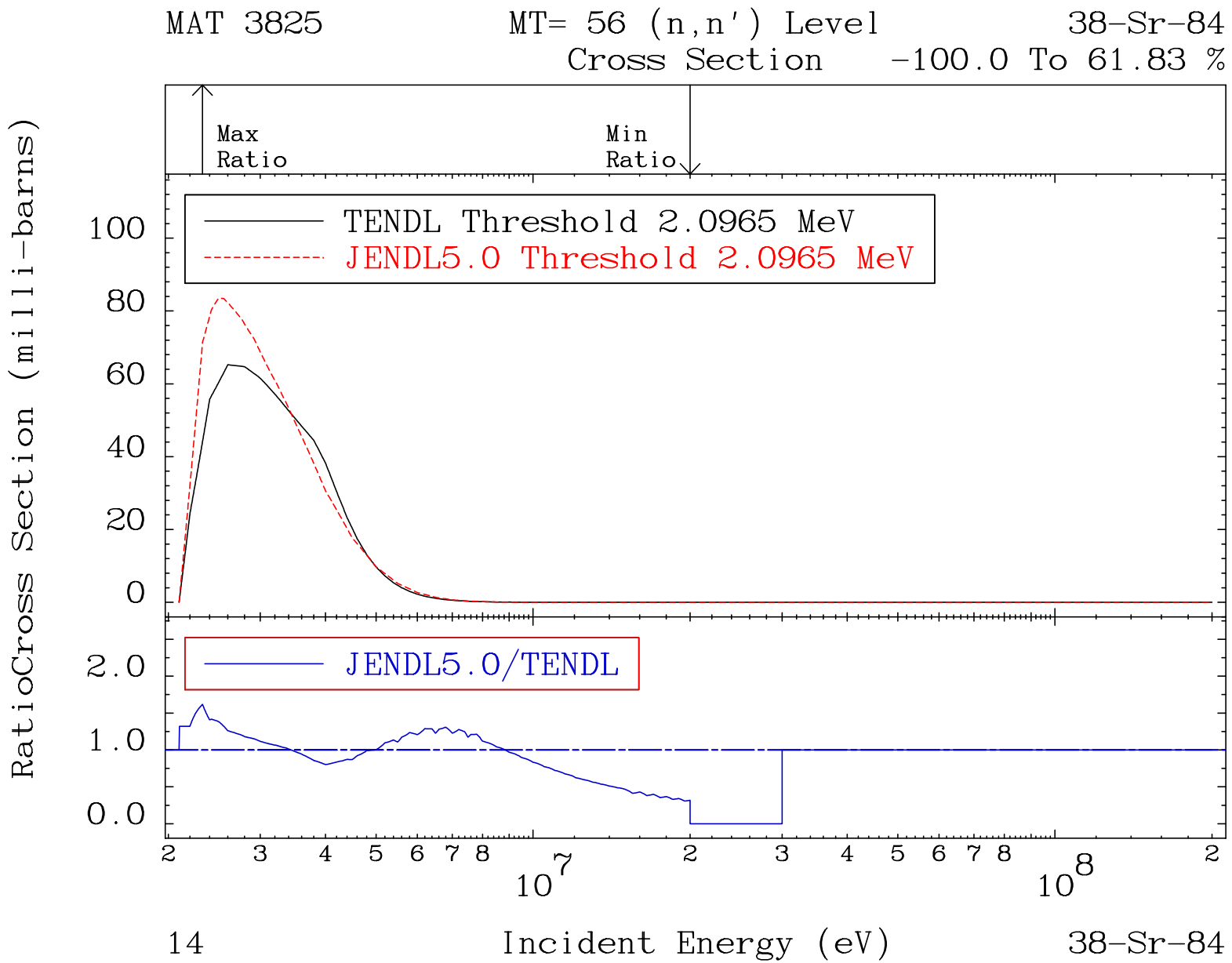

MAT 3825
MT= 51 (n,n') Level
38-Sr-84
Cross Section -100.0 To 75.24 %
Max Ratio
Min Ratio
TENDL Threshold 802.76 keV
JENDL5.0 Threshold 802.76 keV
Cross Section (barns)
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
8 2 3 4 5 6 8 2 3 4 5 6 8 2
10^6 10^7 10^8
9
Incident Energy (eV)
38-Sr-84

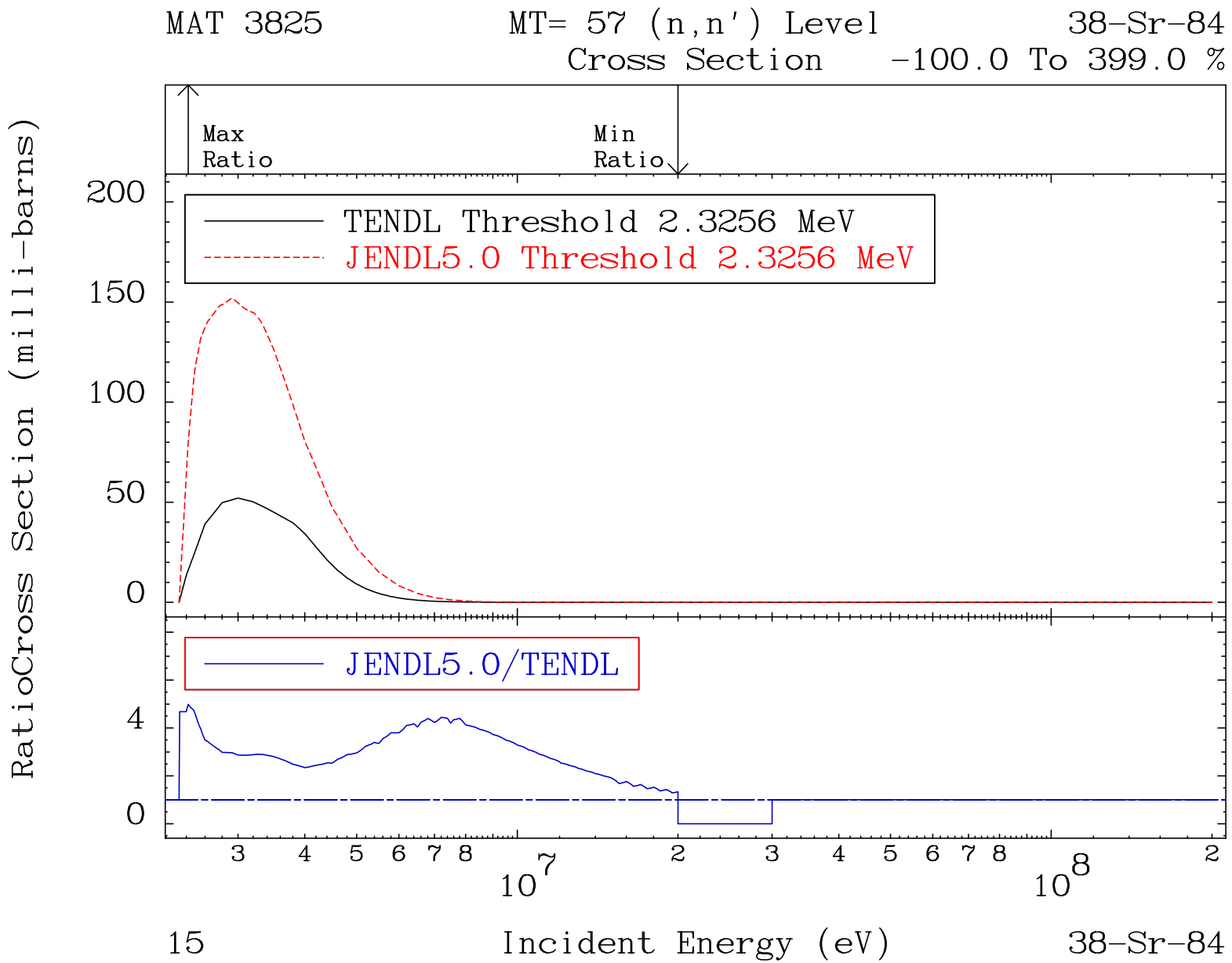

MAT 3825
MT= 52 (n,n') Level
38-Sr-84
Cross Section -100.0 To 134.9 %
Max Ratio
Min Ratio
TENDL Threshold 1.4714 MeV
JENDL5.0 Threshold 1.4714 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
38-Sr-84

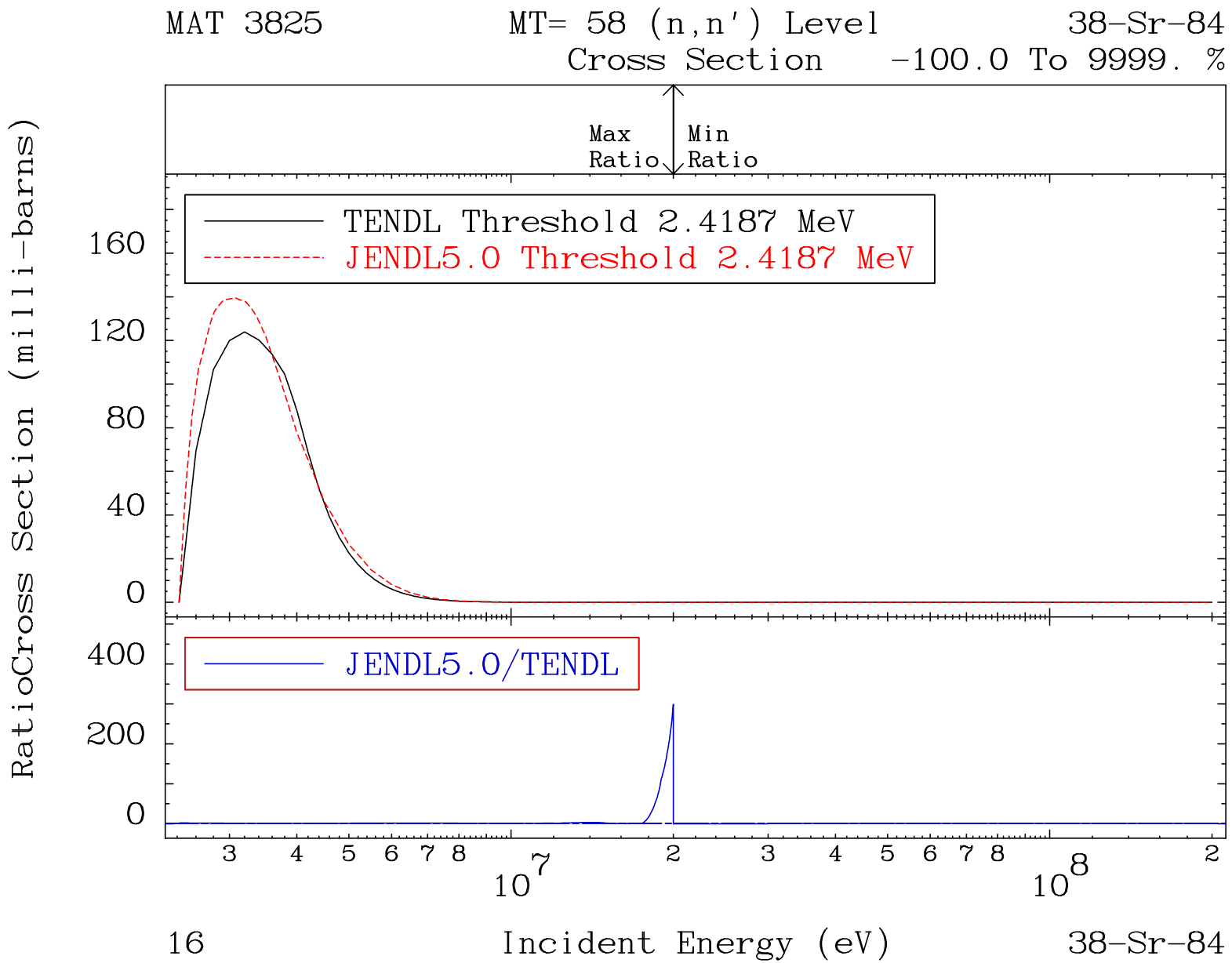

MAT 3825
MT= 53 (n,n') Level
38-Sr-84
Cross Section -100.0 To 42.24 %
Max Ratio
Min Ratio
TENDL Threshold 1.5223 MeV
JENDL5.0 Threshold 1.5223 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
38-Sr-84

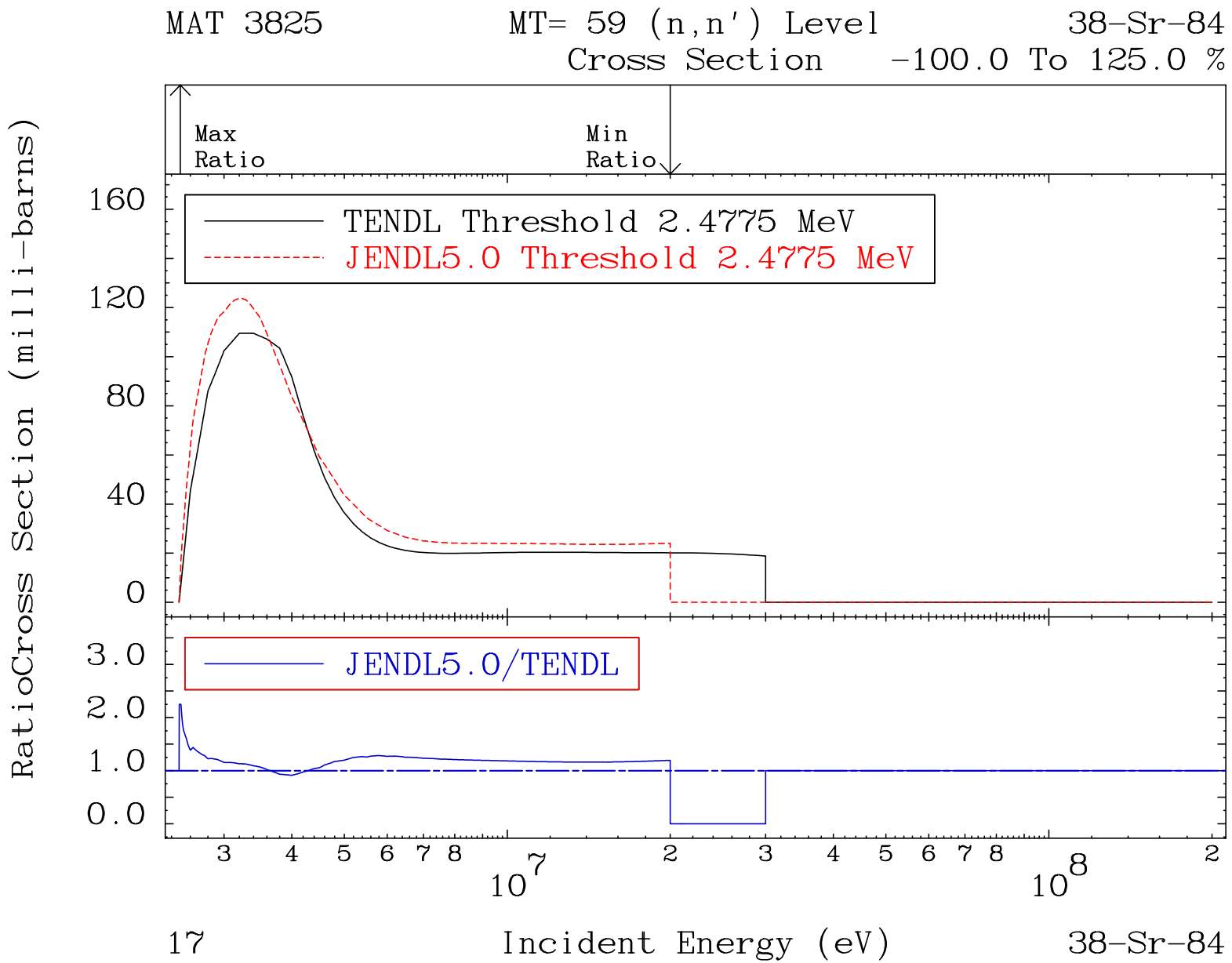

MAT 3825
MT= 54 (n,n') Level
38-Sr-84
Cross Section -100.0 To 77.20 %
Max Ratio
Min Ratio
TENDL Threshold 1.7889 MeV
JENDL5.0 Threshold 1.7889 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
38-Sr-84

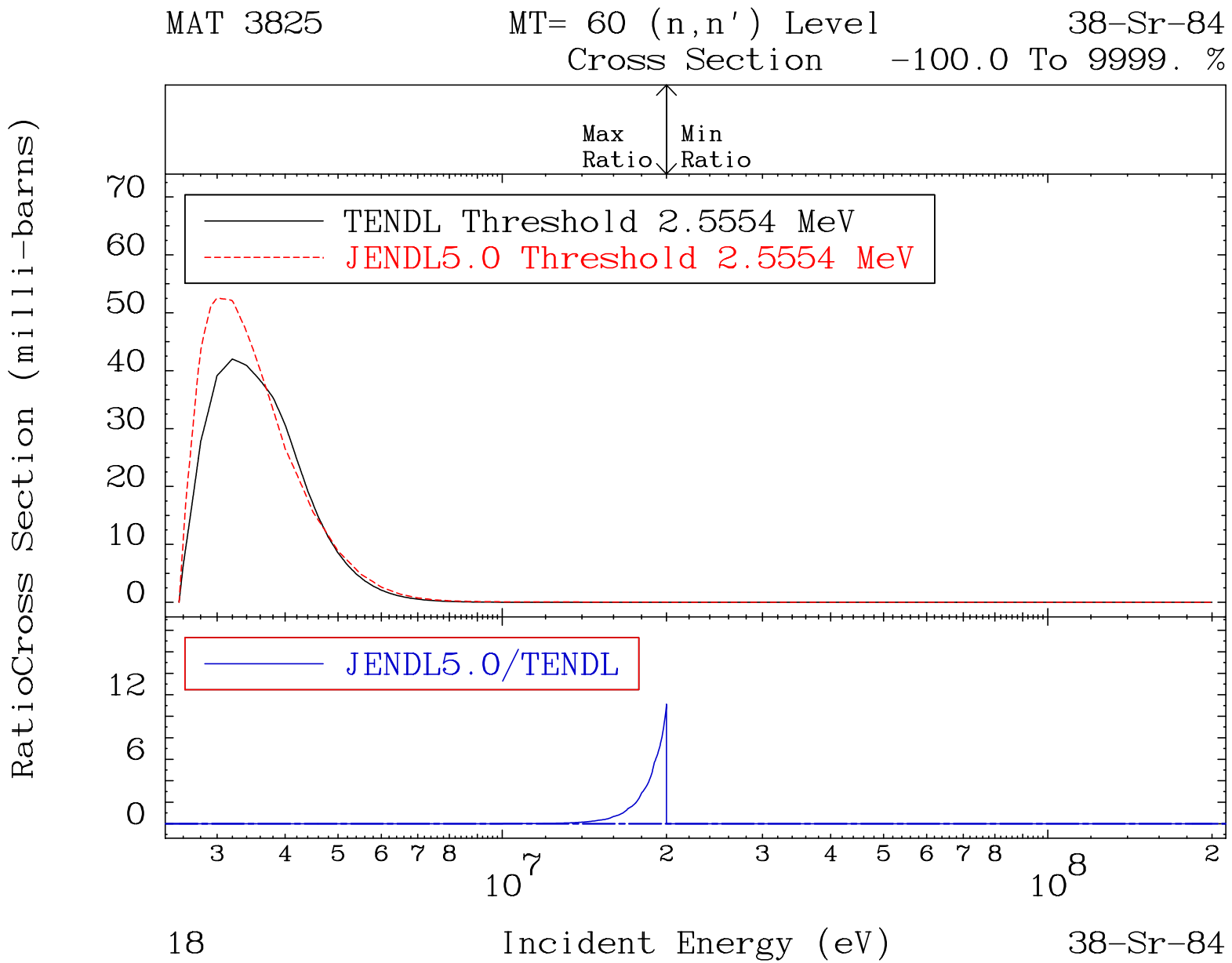

MAT 3825
MT= 55 (n,n') Level
38-Sr-84
Cross Section -100.0 To 120.2 %
Max Ratio
Min Ratio
TENDL Threshold 2.0808 MeV
JENDL5.0 Threshold 2.0808 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
38-Sr-84

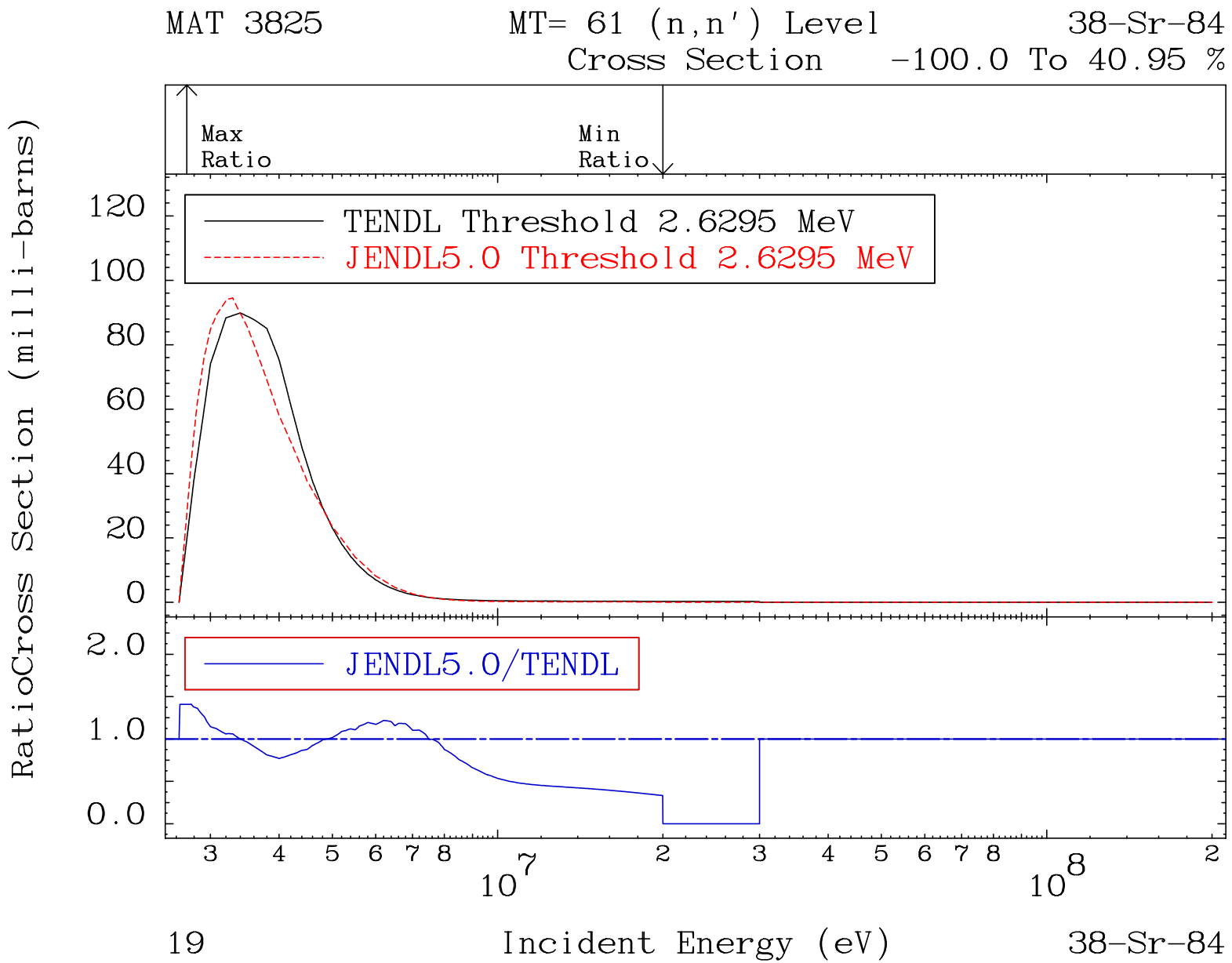

MAT 3825
MT= 56 (n,n') Level
38-Sr-84
Cross Section -100.0 To 61.83 %
Max Ratio
Min Ratio
TENDL Threshold 2.0965 MeV
JENDL5.0 Threshold 2.0965 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
38-Sr-84

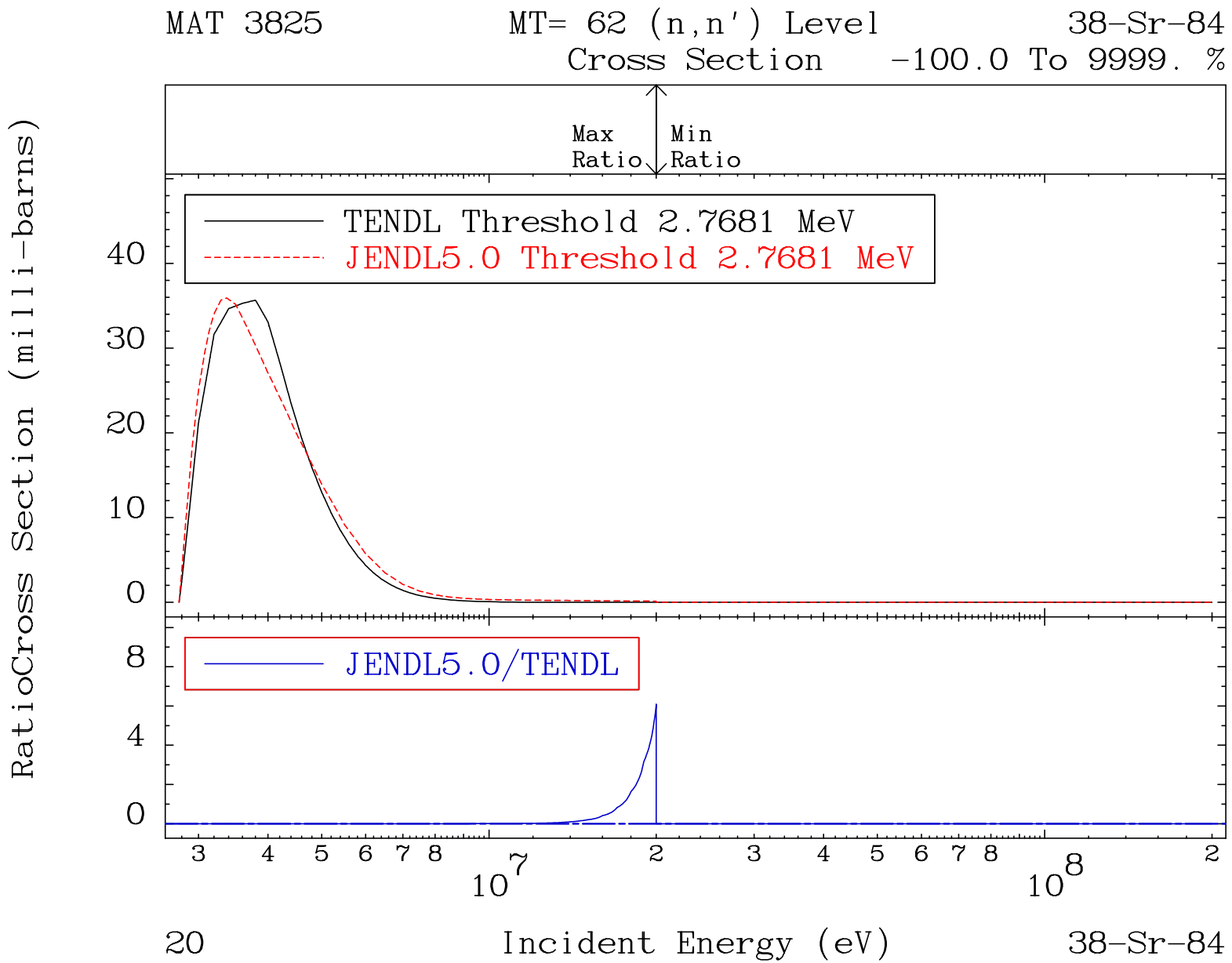

MAT 3825
MT= 57 (n,n') Level
38-Sr-84
Cross Section -100.0 To 399.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.3256 MeV
JENDL5.0 Threshold 2.3256 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
15
38-Sr-84

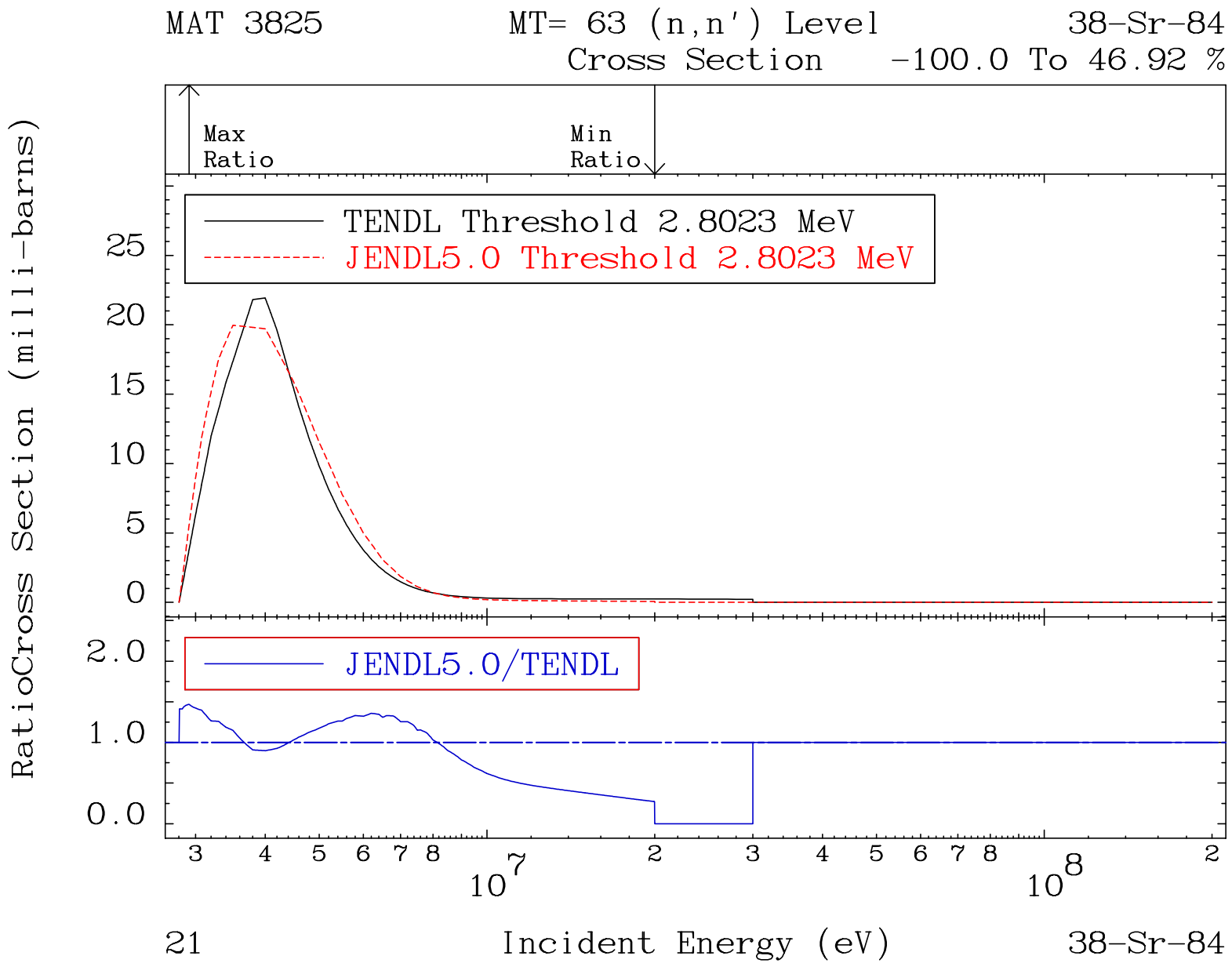

MAT 3825
MT= 58 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.4187 MeV
JENDL5.0 Threshold 2.4187 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
400
200
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
38-Sr-84

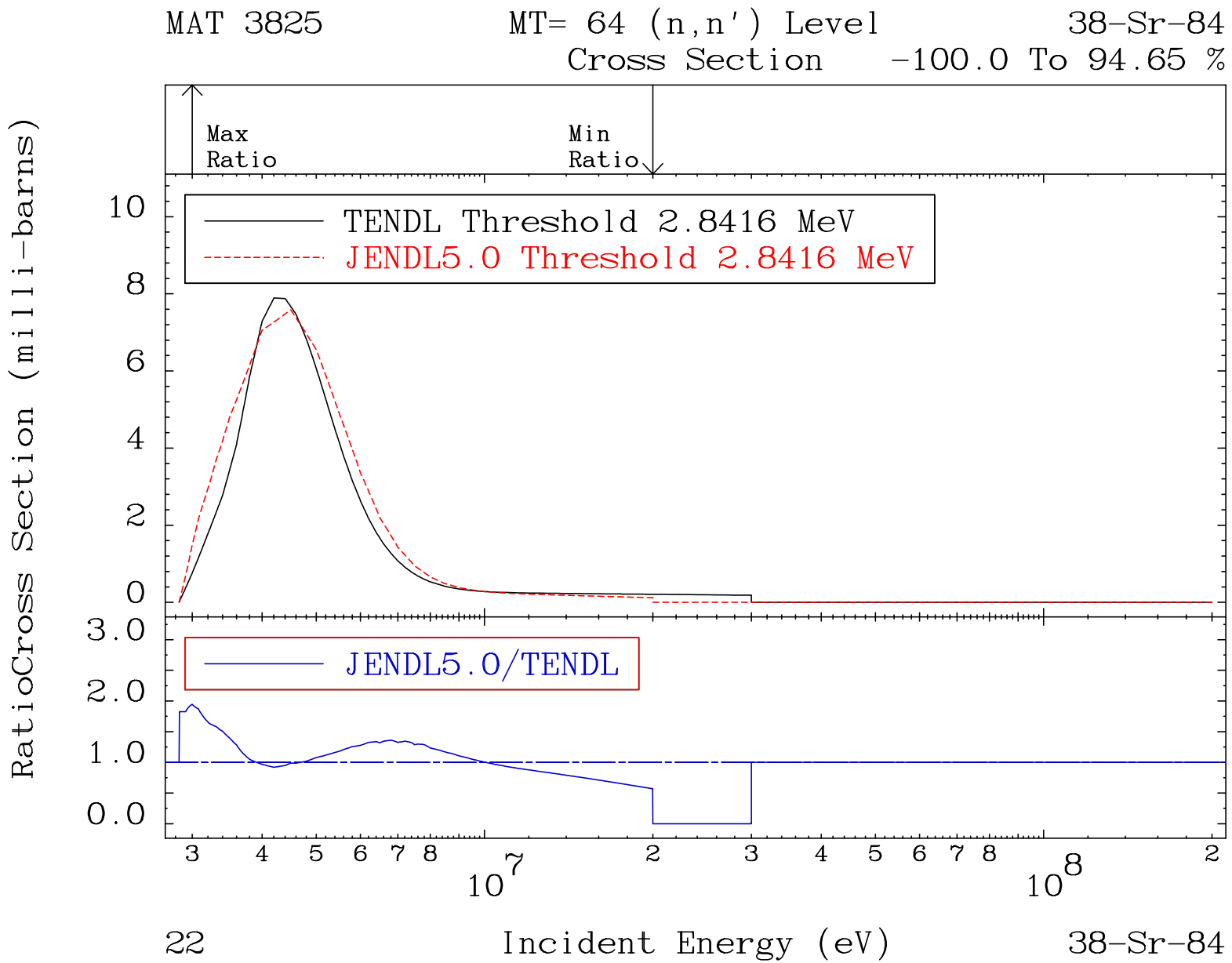

MAT 3825
MT= 59 (n,n') Level
38-Sr-84
Cross Section -100.0 To 125.0 %
Max Ratio
Min Ratio
TENDL Threshold 2.4775 MeV
JENDL5.0 Threshold 2.4775 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
38-Sr-84

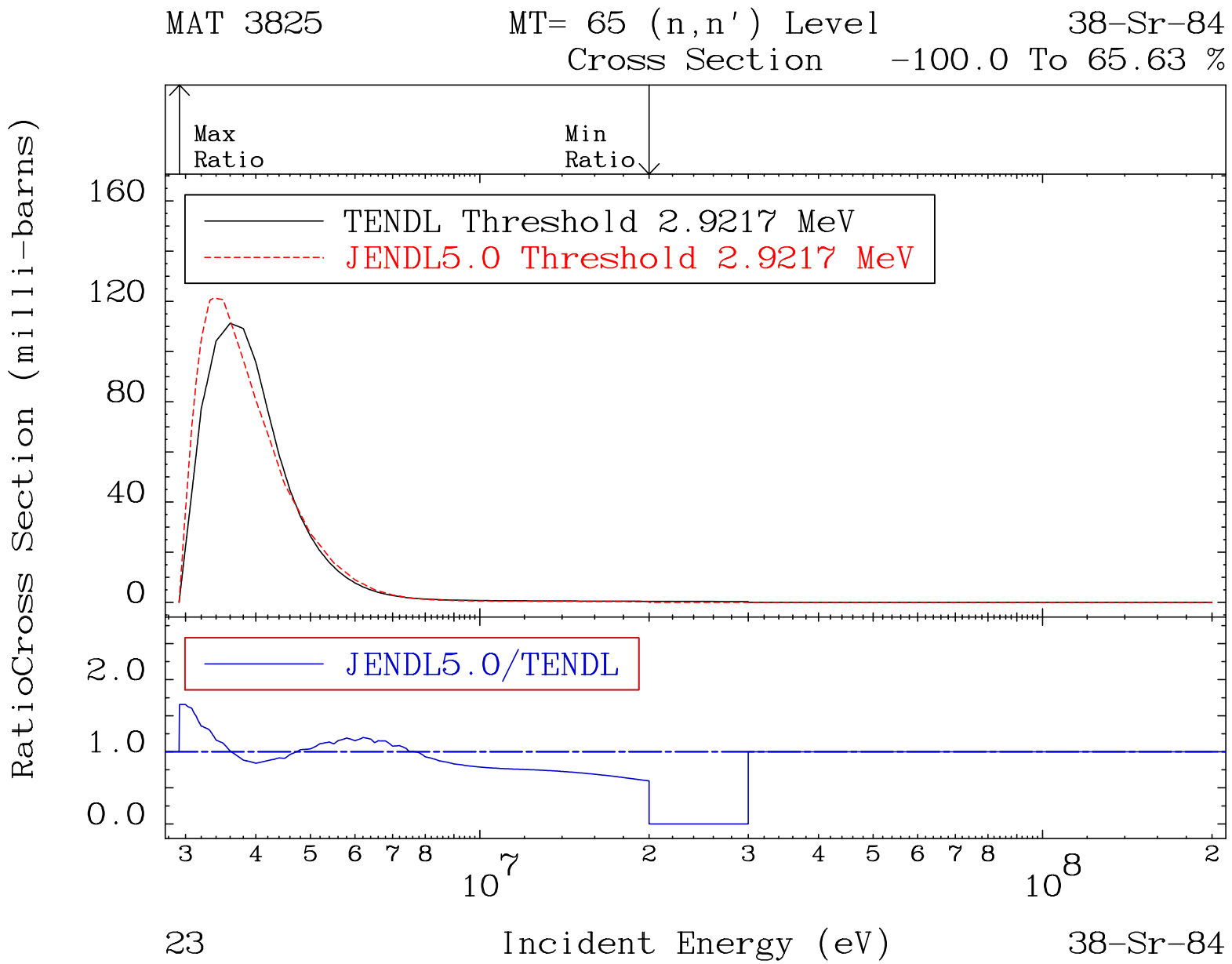

MAT 3825
MT= 60 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5554 MeV
JENDL5.0 Threshold 2.5554 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
12
6
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
38-Sr-84

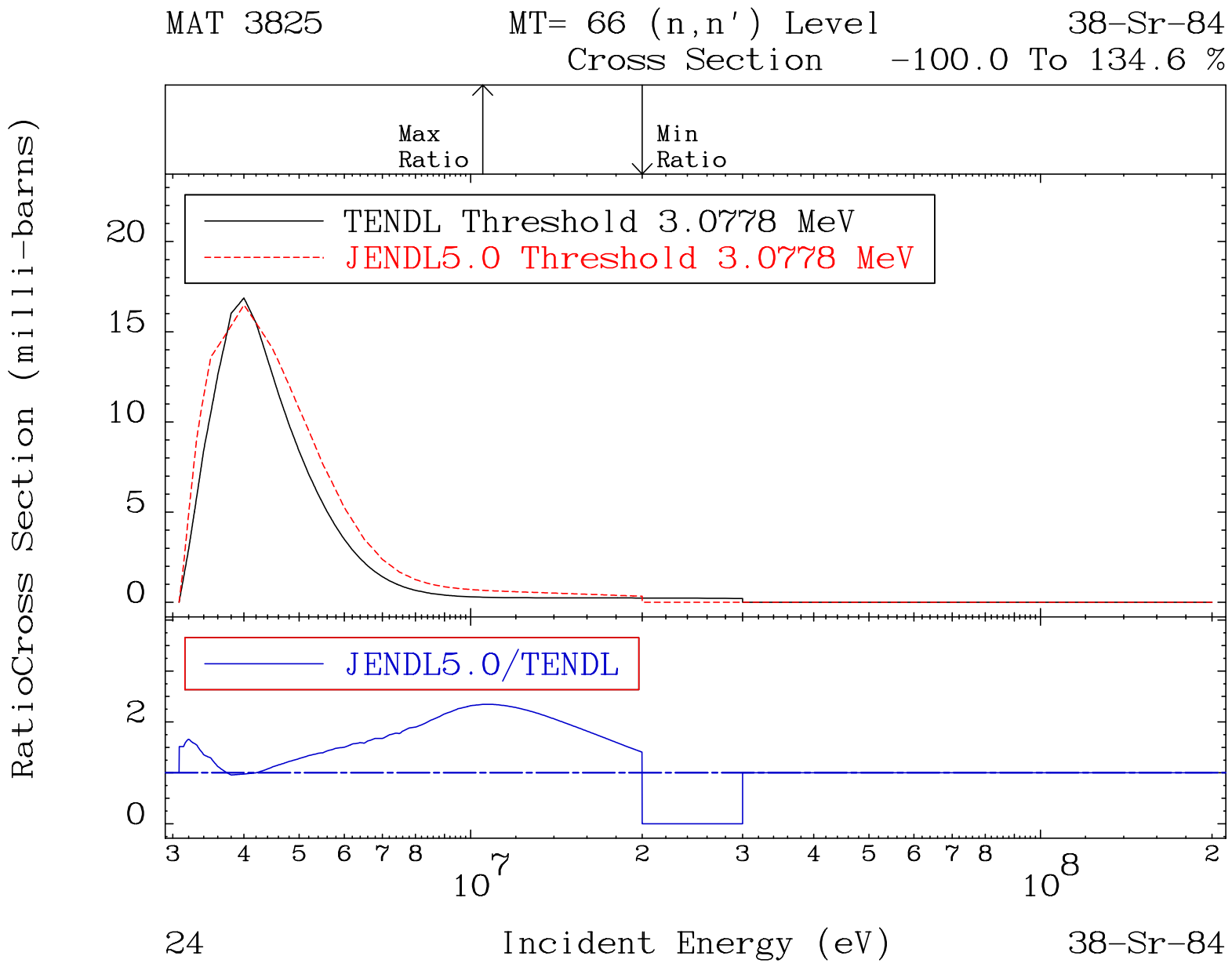

MAT 3825
MT= 61 (n,n') Level
38-Sr-84
Cross Section -100.0 To 40.95 %
Max Ratio
Min Ratio
TENDL Threshold 2.6295 MeV
JENDL5.0 Threshold 2.6295 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
38-Sr-84

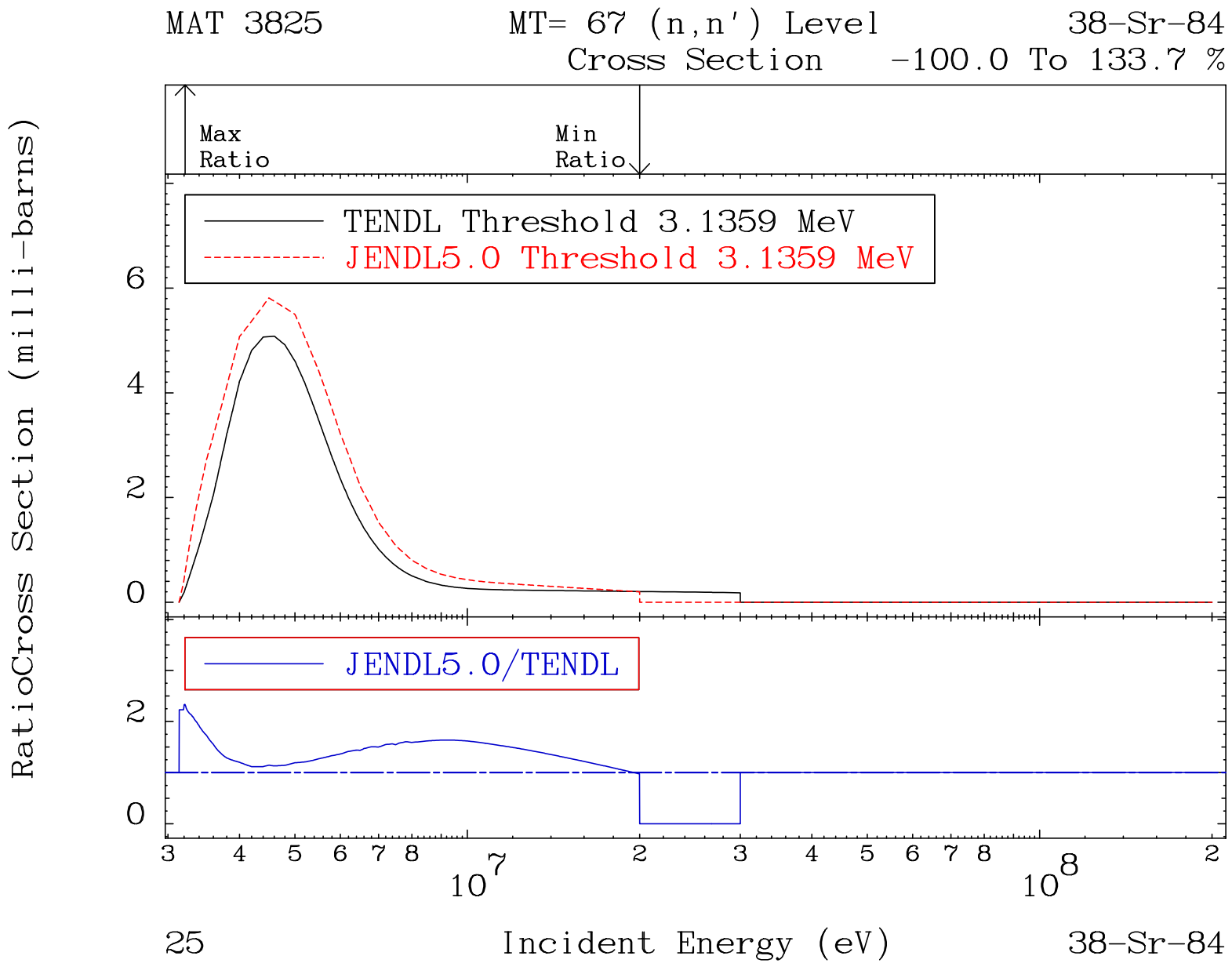

MAT 3825
MT= 62 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.7681 MeV
JENDL5.0 Threshold 2.7681 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
38-Sr-84

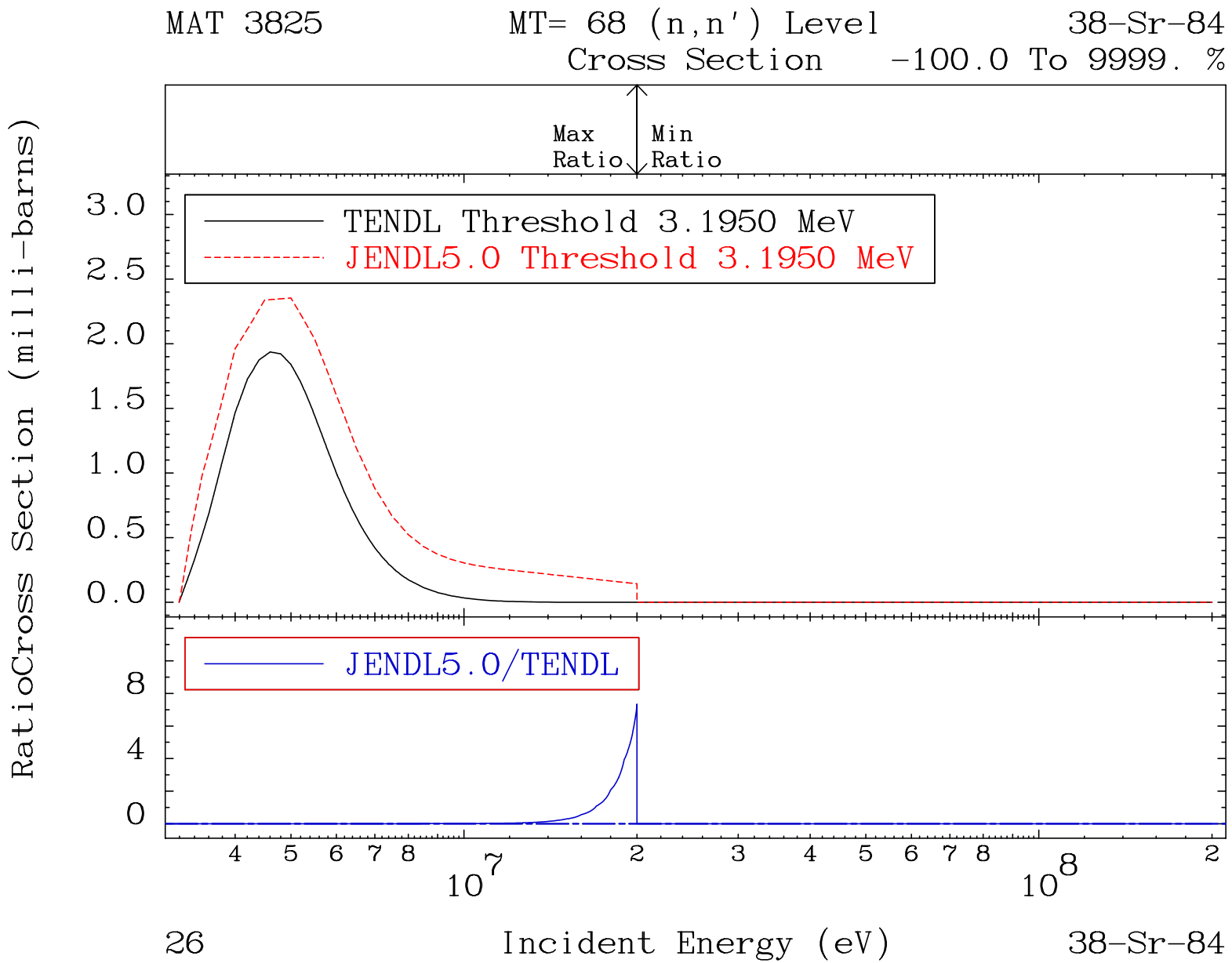

MAT 3825
MT= 63 (n,n') Level
38-Sr-84
Cross Section -100.0 To 46.92 %
Max Ratio
Min Ratio
TENDL Threshold 2.8023 MeV
JENDL5.0 Threshold 2.8023 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
38-Sr-84

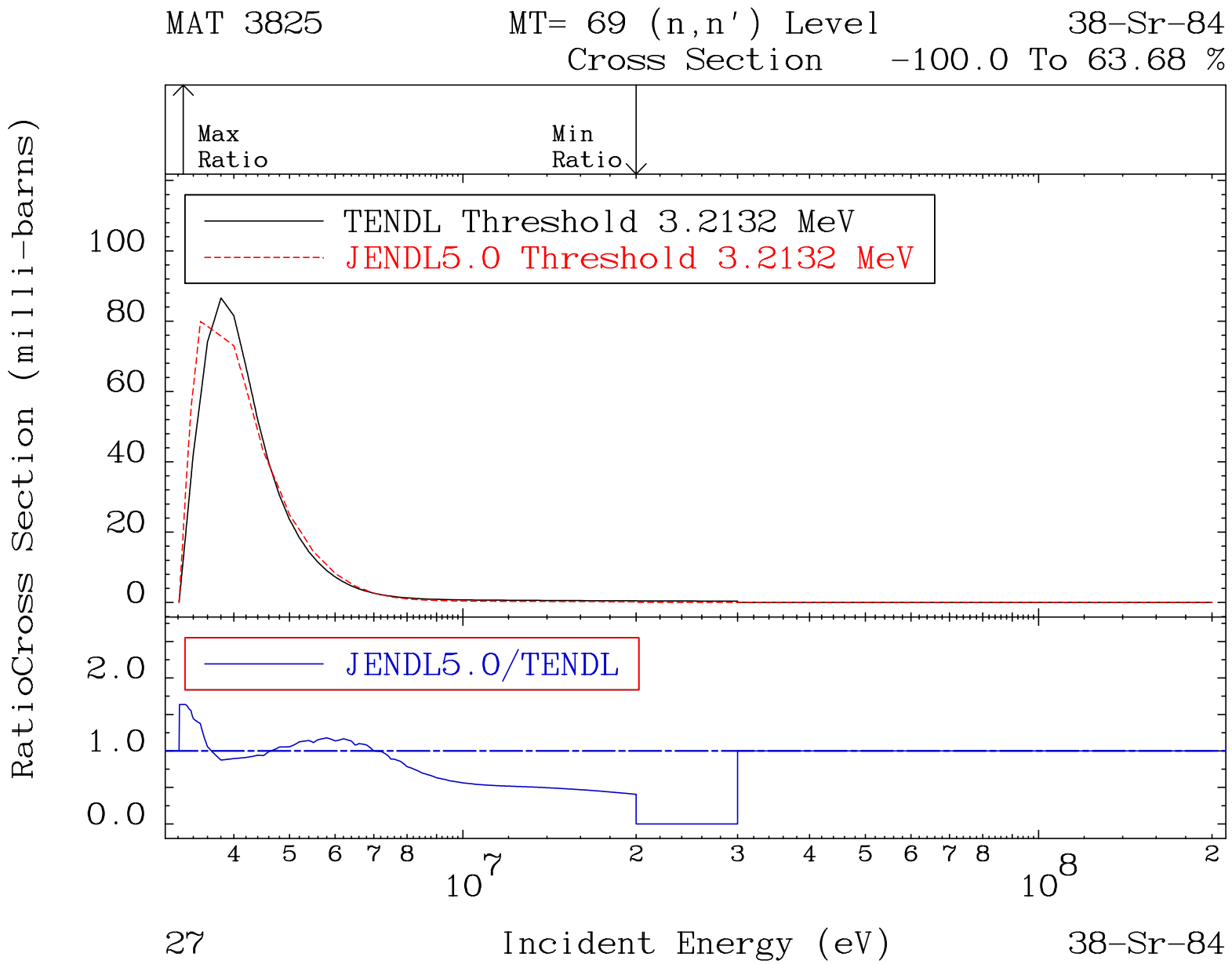

MAT 3825
MT= 64 (n,n') Level
38-Sr-84
Cross Section -100.0 To 94.65 %
Max Ratio
Min Ratio
TENDL Threshold 2.8416 MeV
JENDL5.0 Threshold 2.8416 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
38-Sr-84

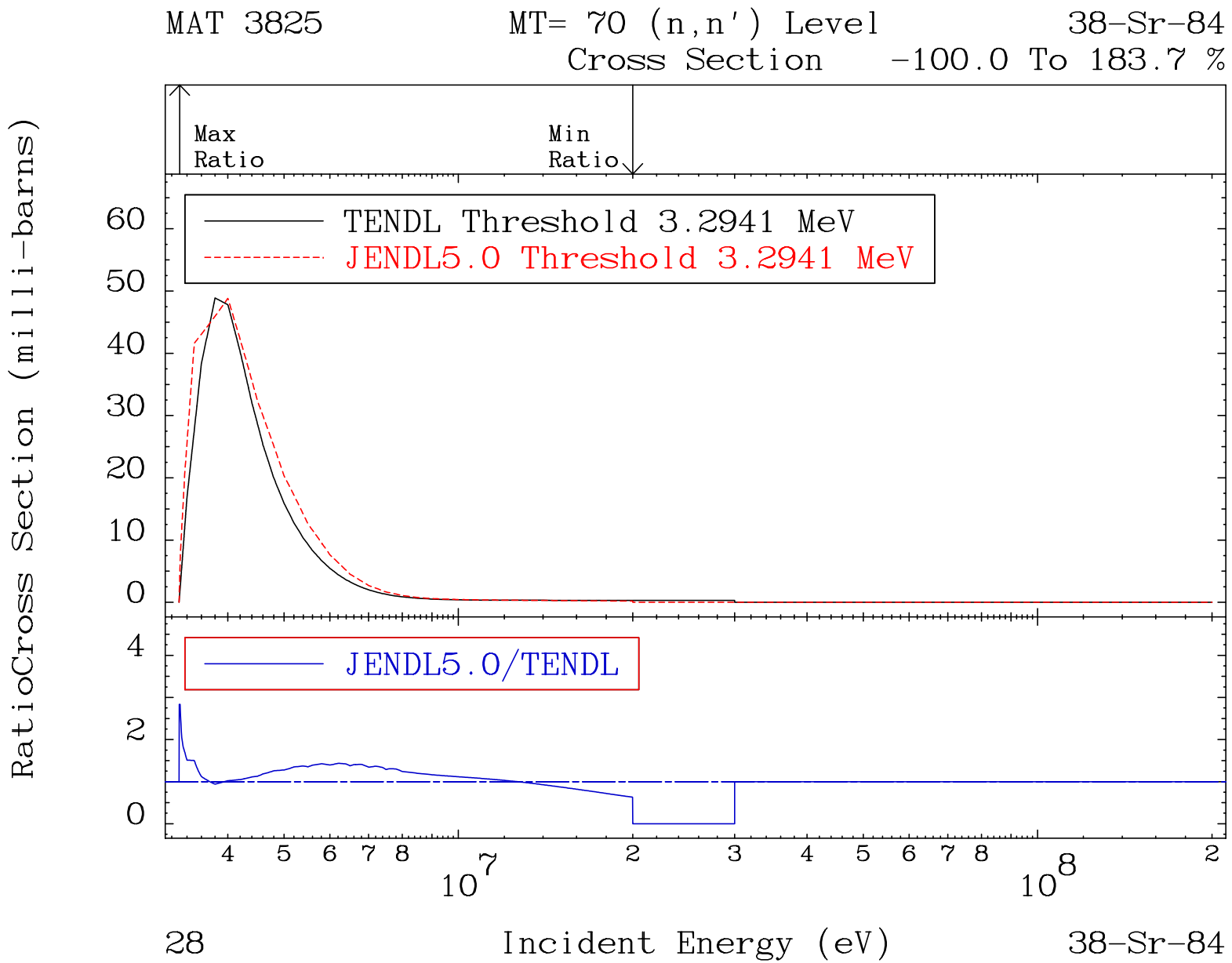

MAT 3825
MT= 65 (n,n') Level
38-Sr-84
Cross Section -100.0 To 65.63 %
Max Ratio
Min Ratio
TENDL Threshold 2.9217 MeV
JENDL5.0 Threshold 2.9217 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
38-Sr-84

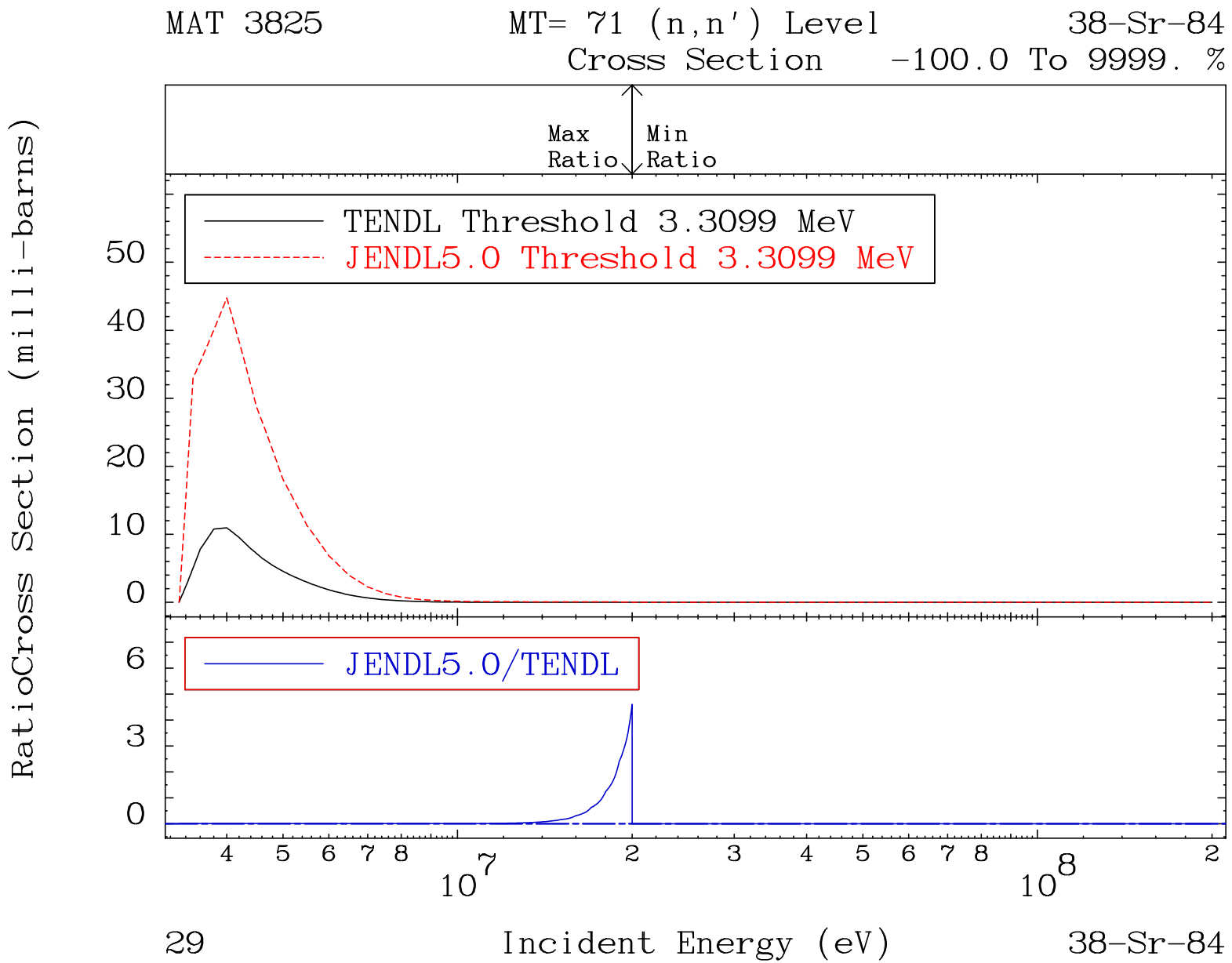

MAT 3825
MT= 66 (n,n') Level
38-Sr-84
Cross Section -100.0 To 134.6 %
Max Ratio
Min Ratio
TENDL Threshold 3.0778 MeV
JENDL5.0 Threshold 3.0778 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
38-Sr-84

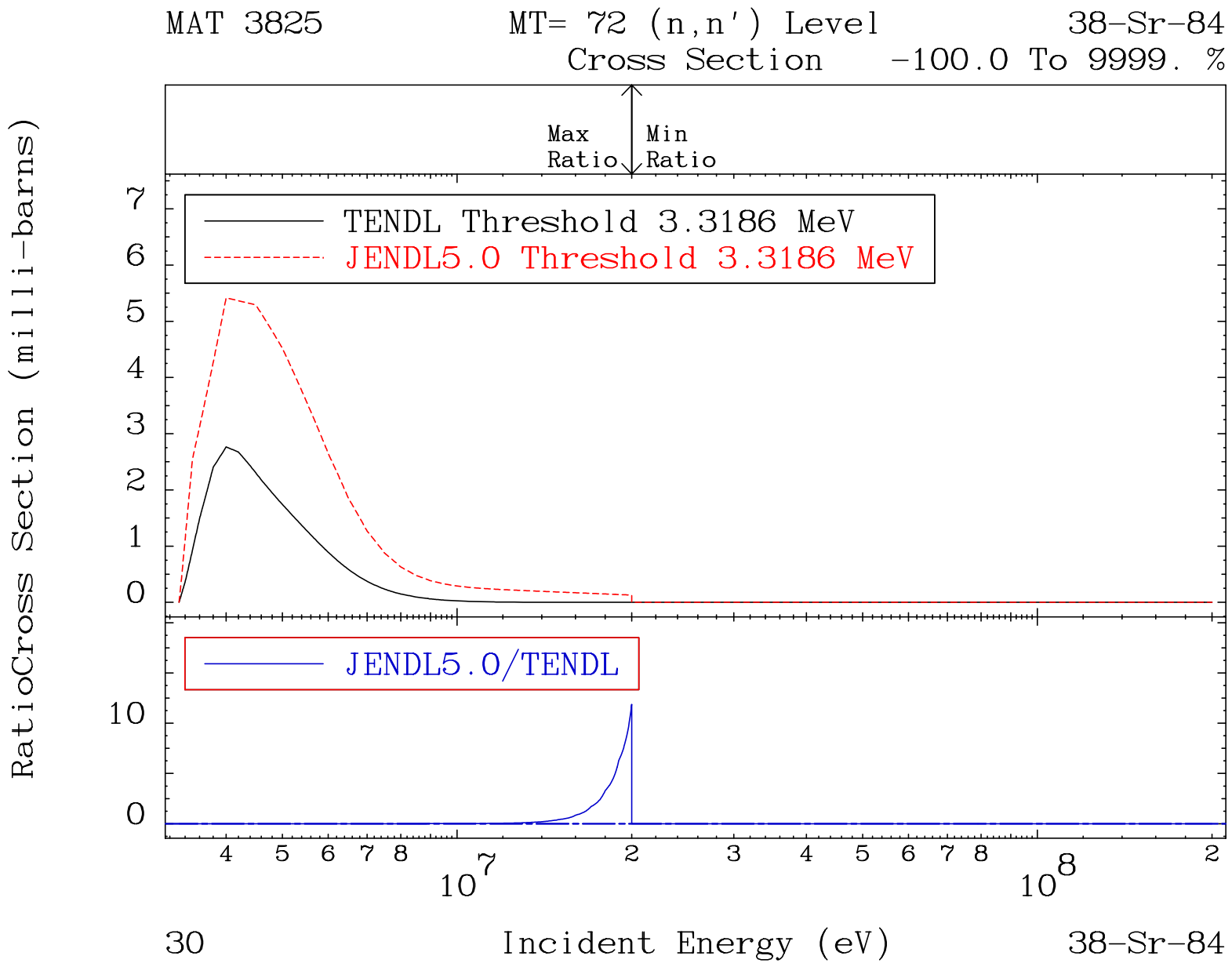

MAT 3825
MT= 67 (n,n') Level
38-Sr-84
Cross Section -100.0 To 133.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.1359 MeV
JENDL5.0 Threshold 3.1359 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
38-Sr-84

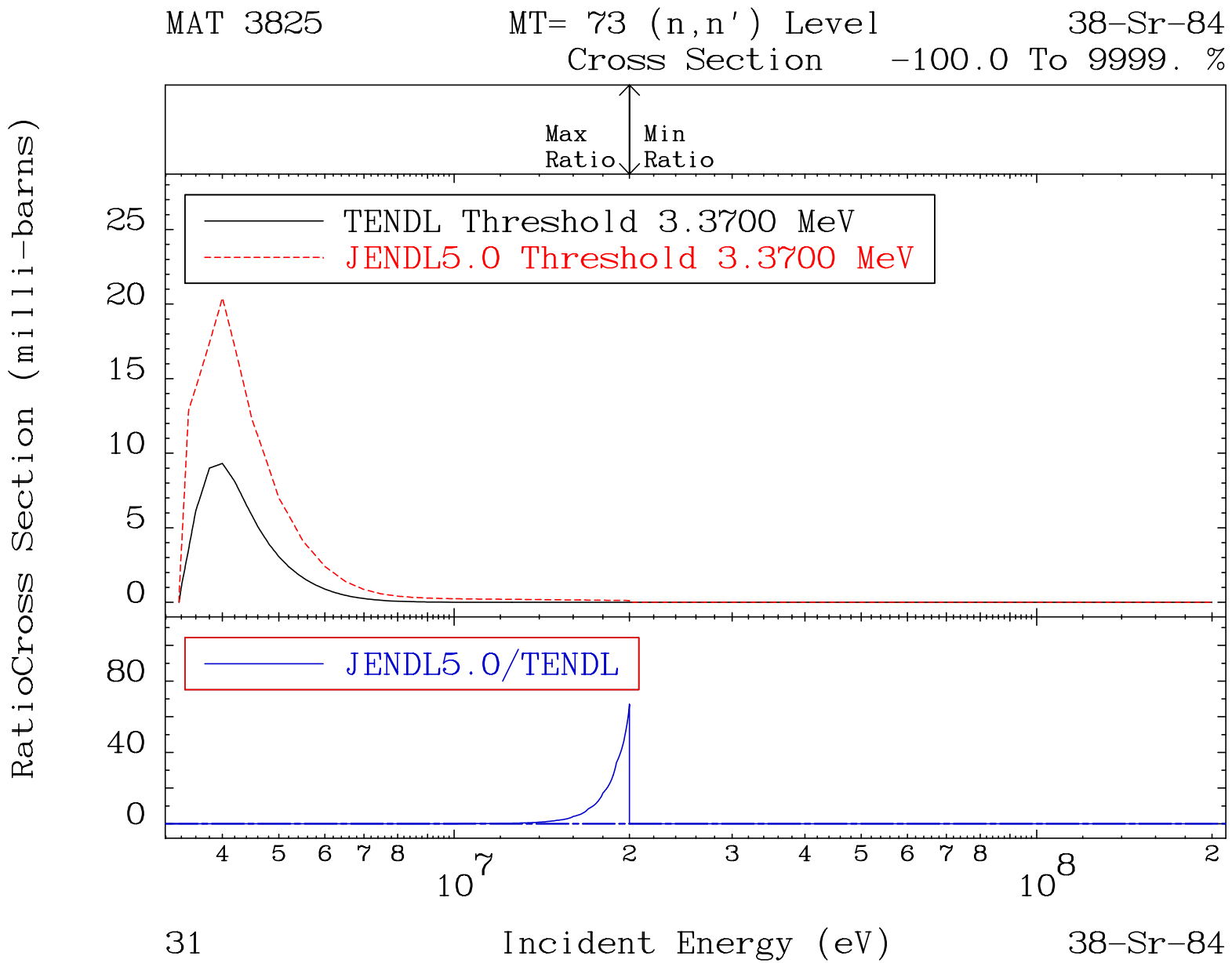

MAT 3825
MT= 68 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1950 MeV
JENDL5.0 Threshold 3.1950 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
8
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
38-Sr-84

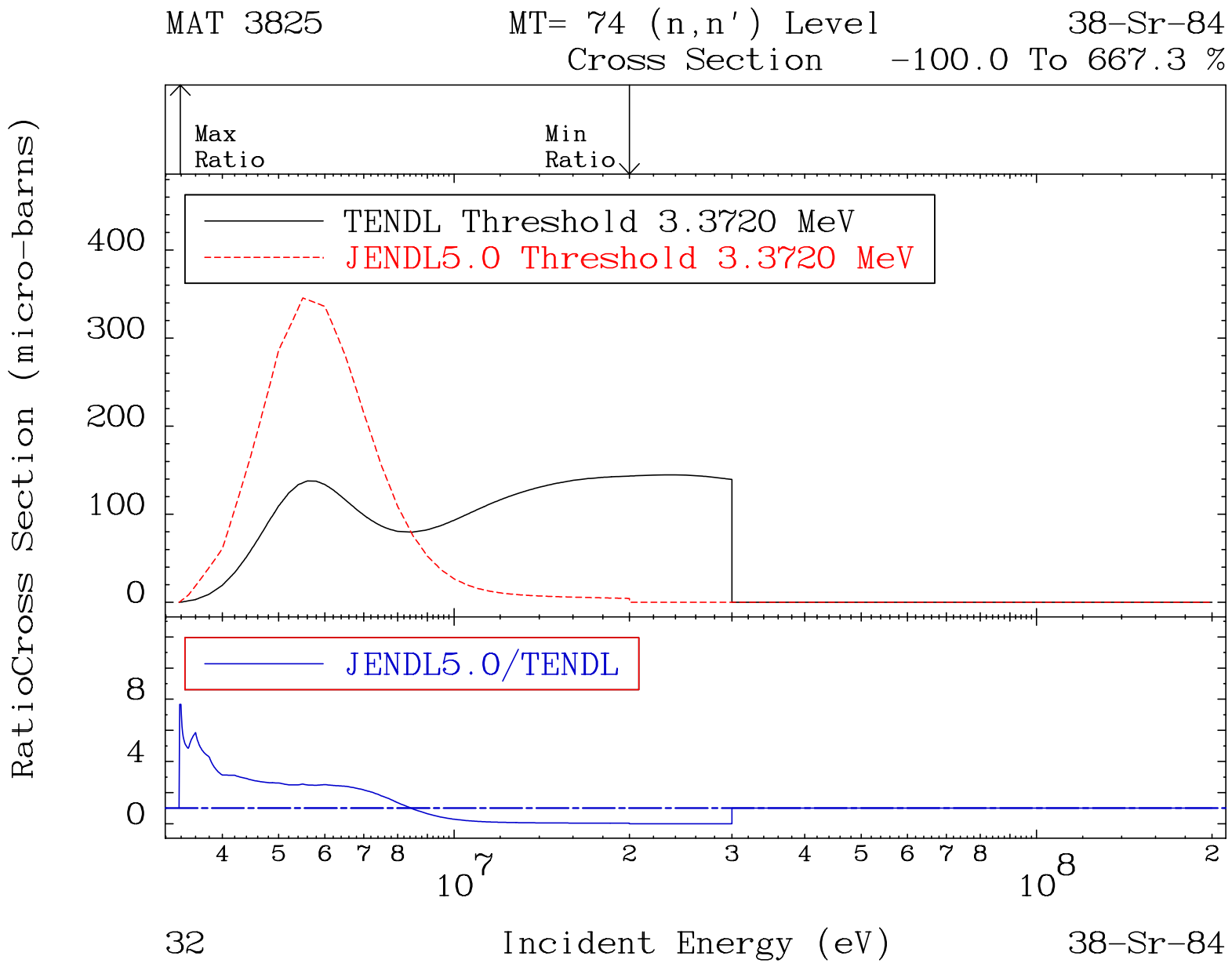

MAT 3825
MT= 69 (n,n') Level
38-Sr-84
Cross Section -100.0 To 63.68 %
Max Ratio
Min Ratio
TENDL Threshold 3.2132 MeV
JENDL5.0 Threshold 3.2132 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
38-Sr-84

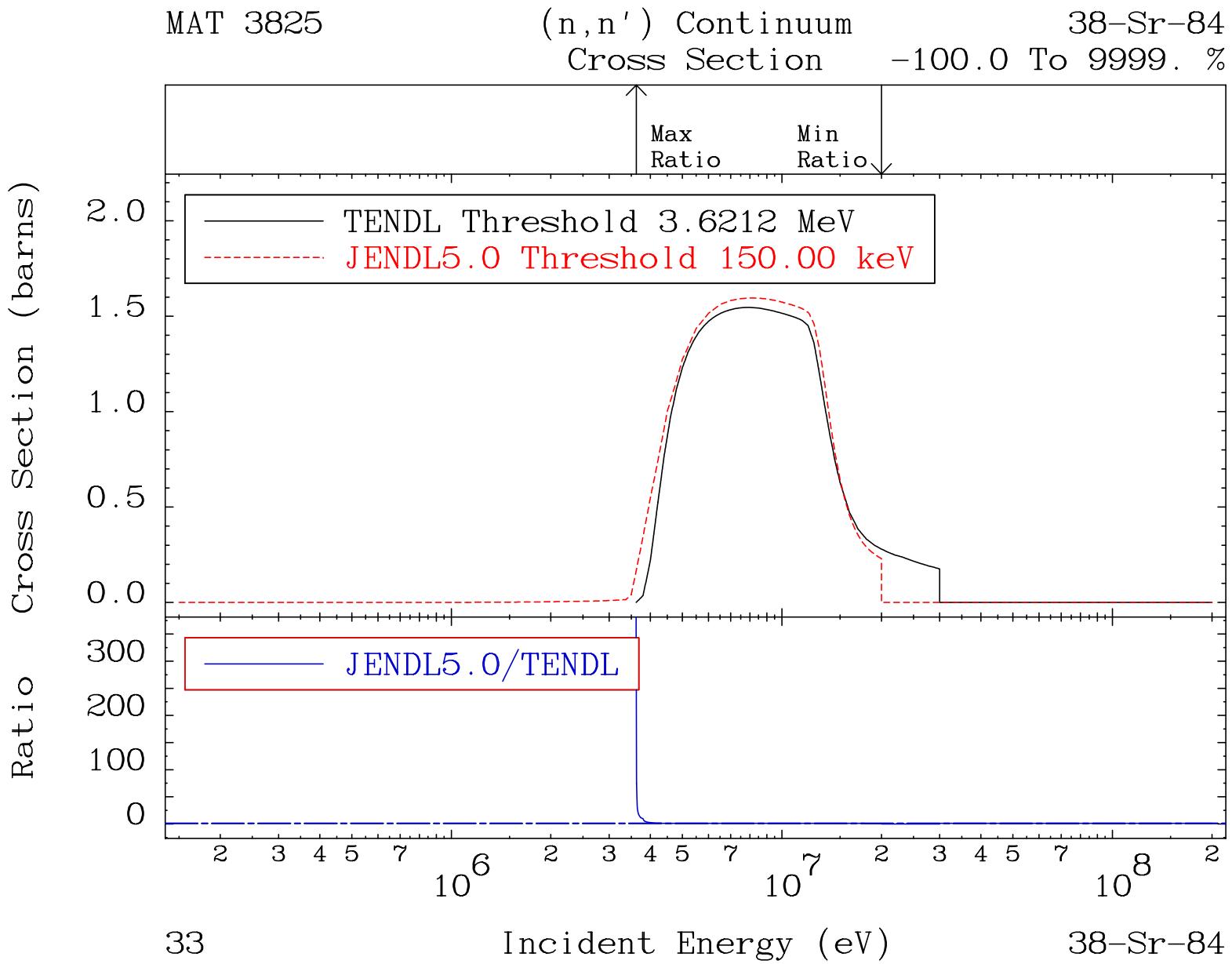

MAT 3825
MT= 70 (n,n') Level
38-Sr-84
Cross Section -100.0 To 183.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.2941 MeV
JENDL5.0 Threshold 3.2941 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
38-Sr-84

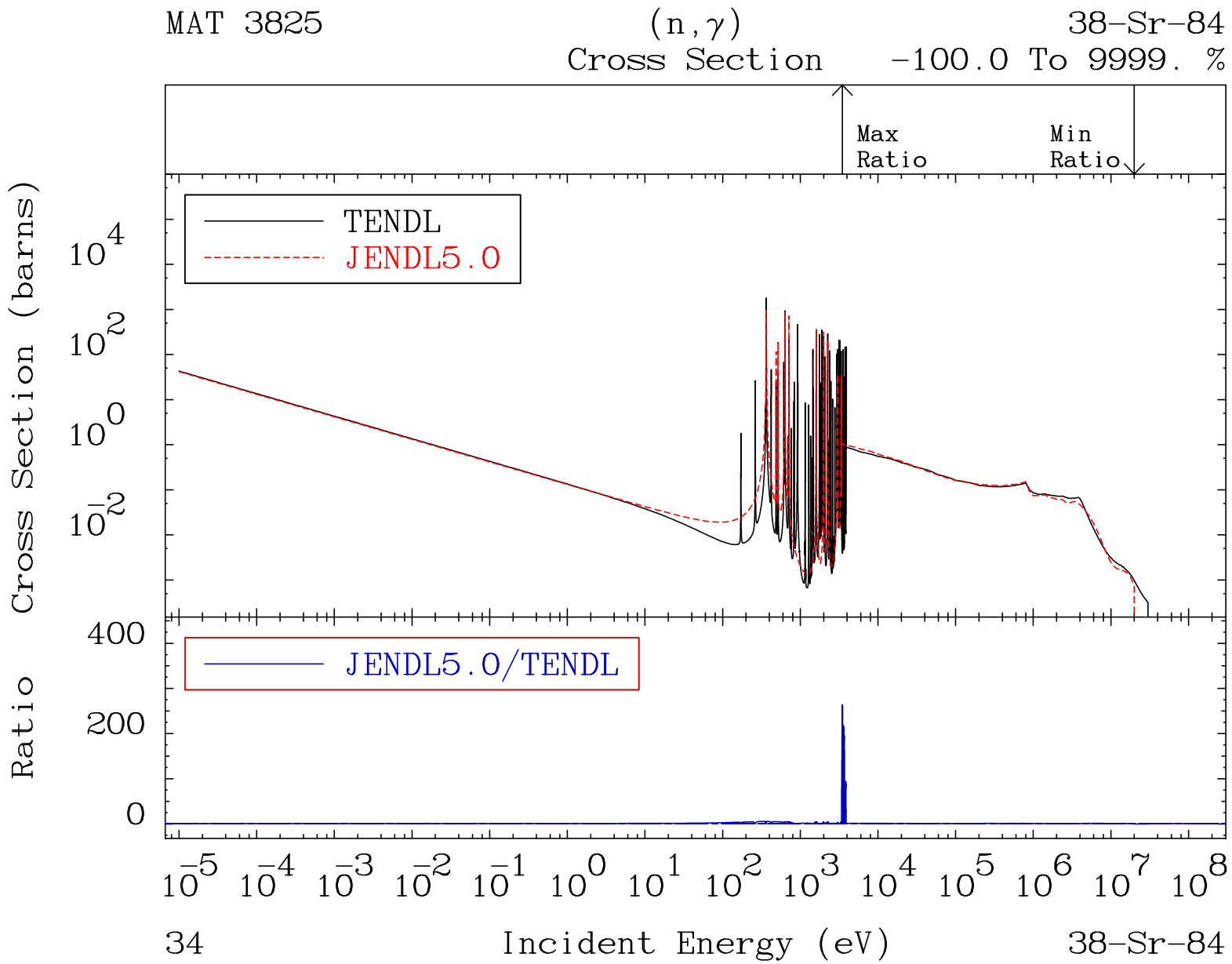

MAT 3825
MT= 71 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3099 MeV
JENDL5.0 Threshold 3.3099 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
6
3
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
38-Sr-84

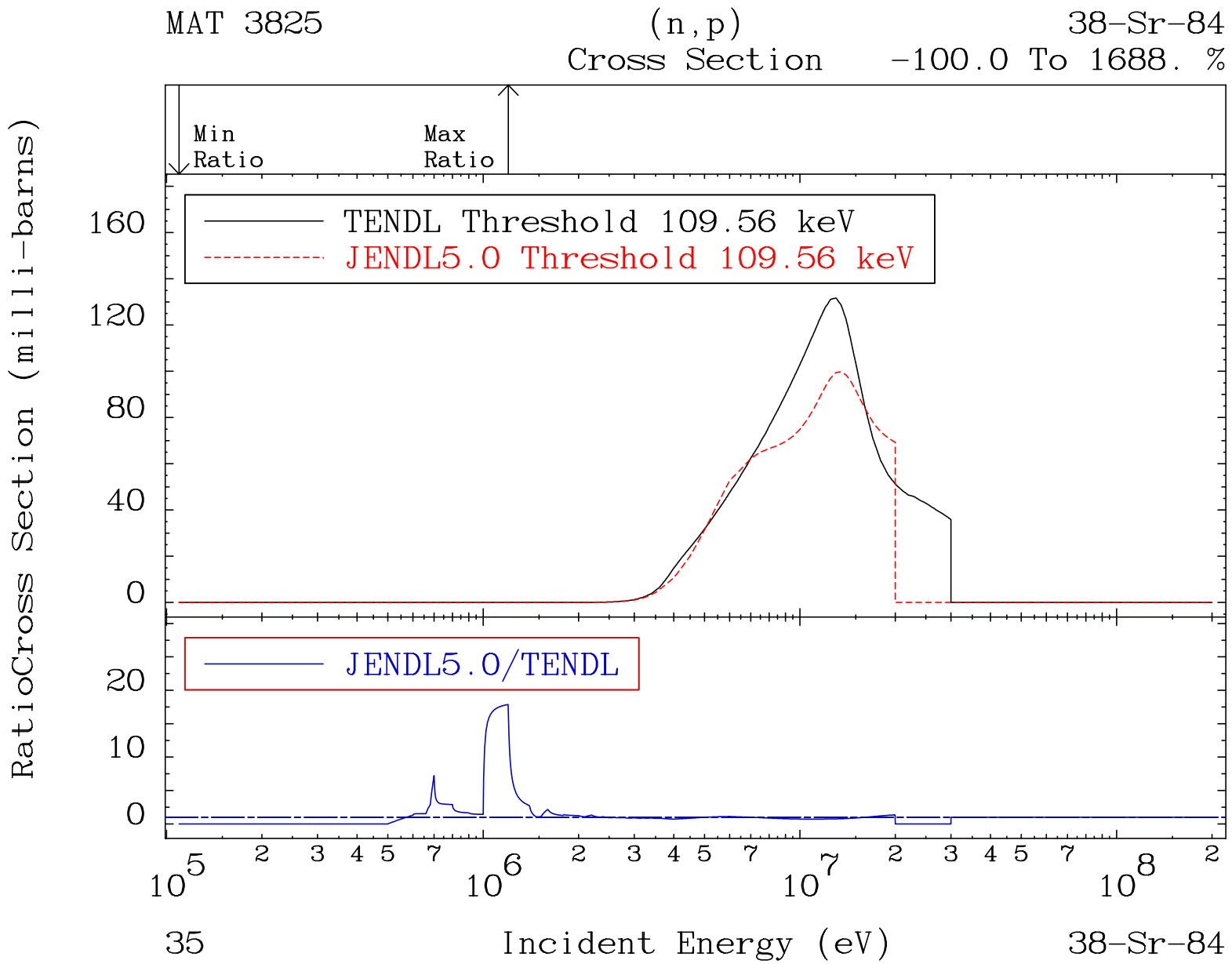

MAT 3825
MT= 72 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3186 MeV
JENDL5.0 Threshold 3.3186 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
30
38-Sr-84

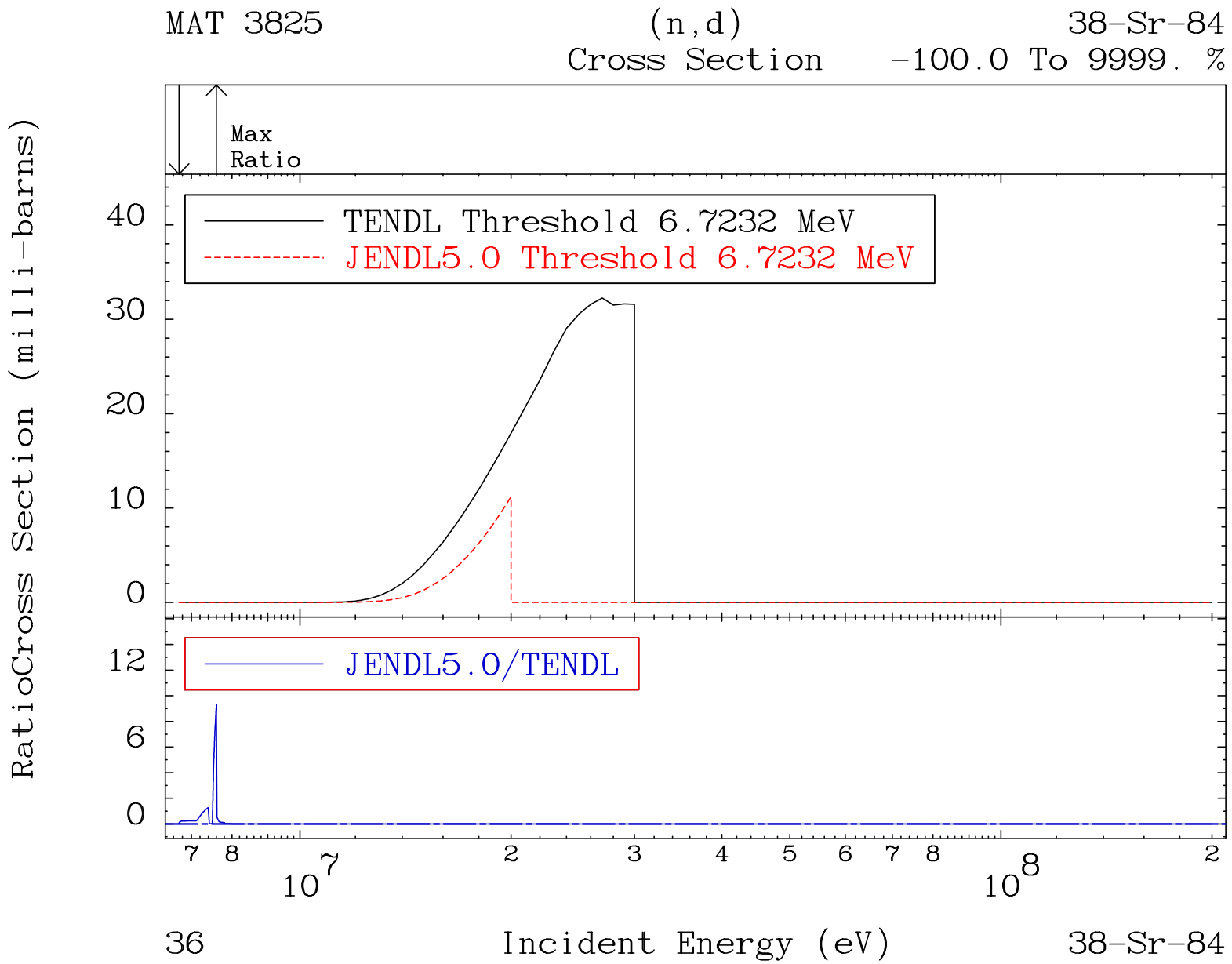

MAT 3825
MT= 73 (n,n') Level
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3700 MeV
JENDL5.0 Threshold 3.3700 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
80
40
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
38-Sr-84

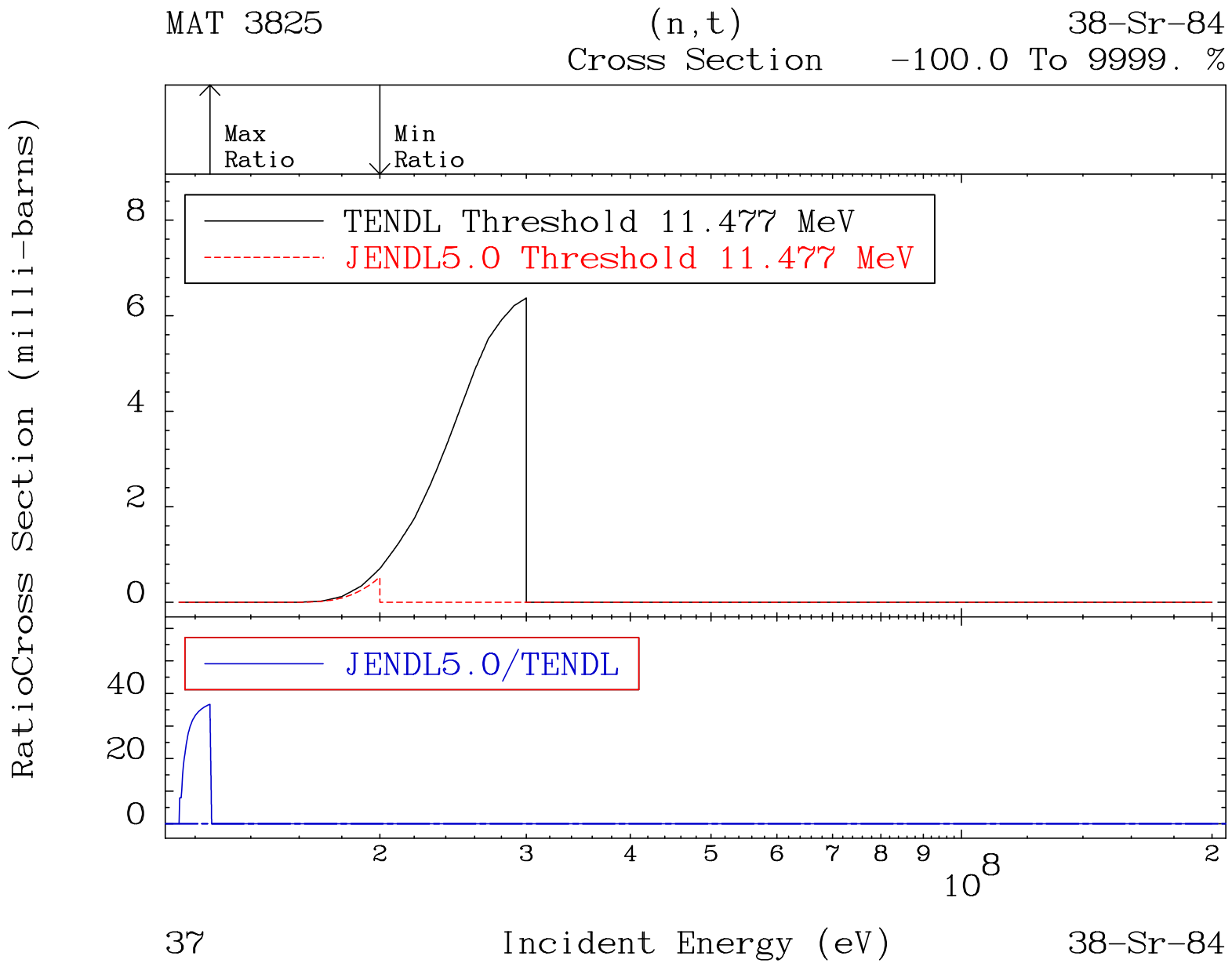

MAT 3825
MT= 74 (n,n') Level
38-Sr-84
Cross Section -100.0 To 667.3 %
Max Ratio
Min Ratio
TENDL Threshold 3.3720 MeV
JENDL5.0 Threshold 3.3720 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
8
4
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
38-Sr-84

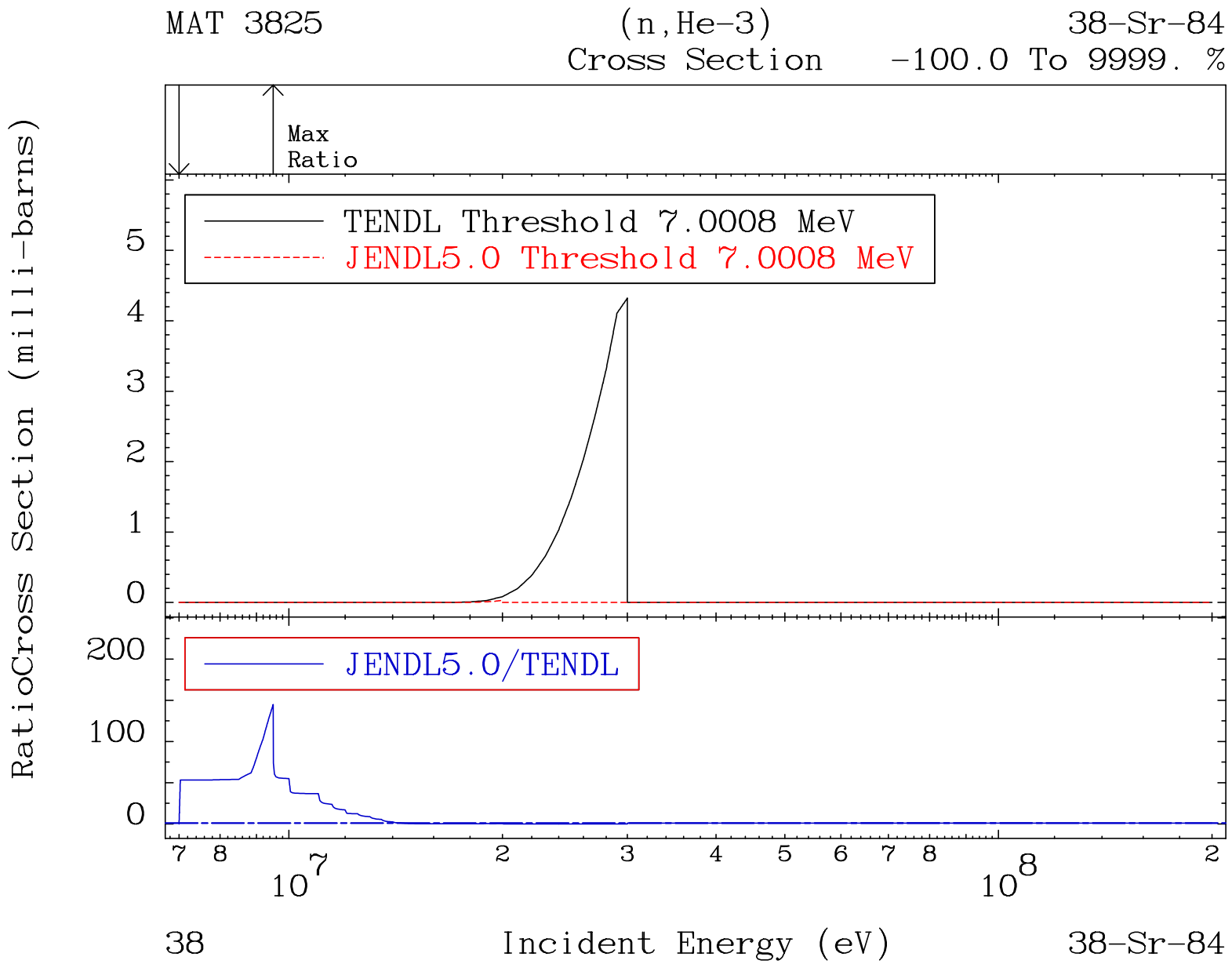

MAT 3825
(n,n') Continuum
Cross Section
38-Sr-84
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.6212 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
300
200
100
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
33
Incident Energy (eV)
38-Sr-84

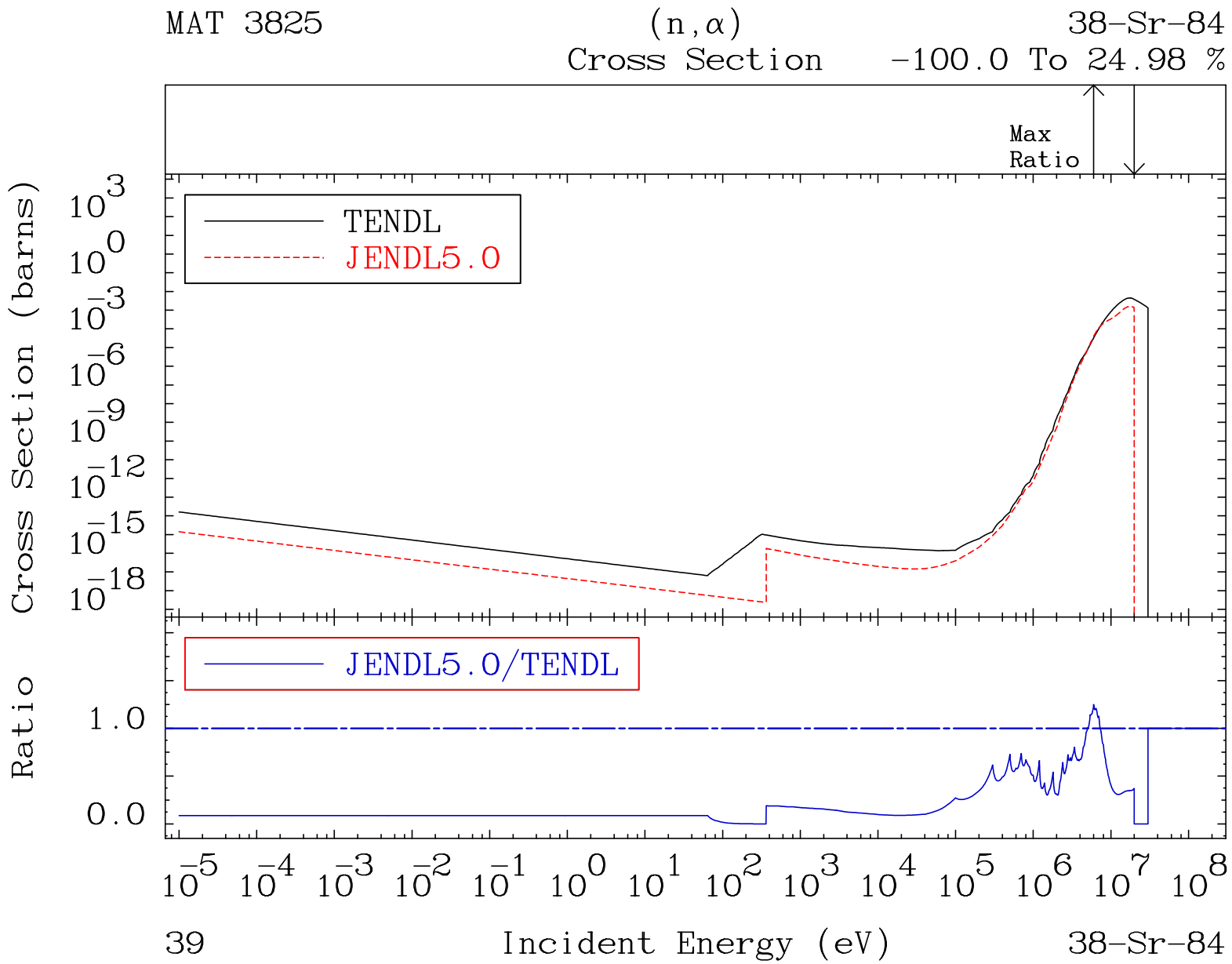

MAT 3825
(n,γ)
Cross Section
38-Sr-84
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
38-Sr-84

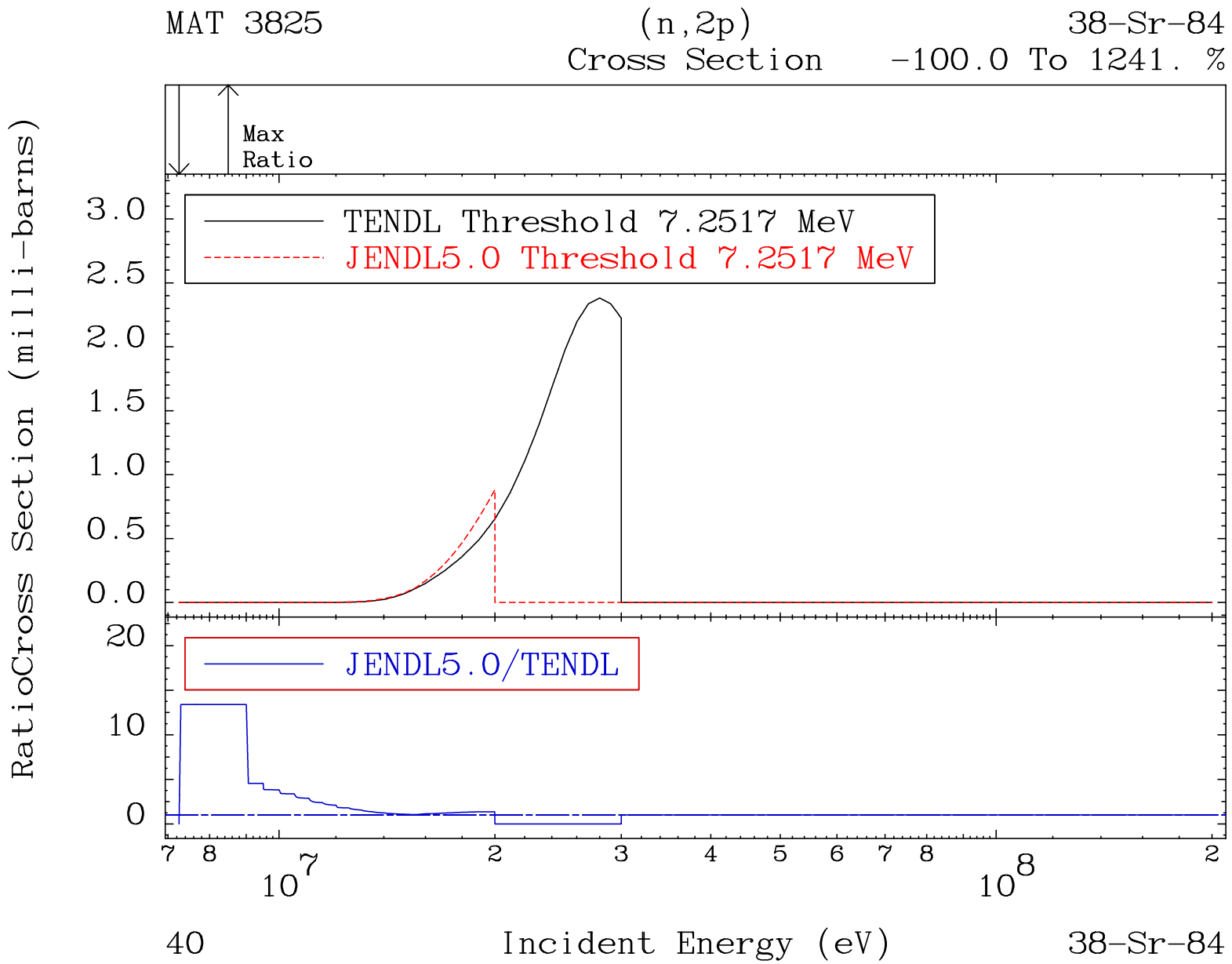

MAT 3825
(n,p)
38-Sr-84
Cross Section
-100.0 To 1688. %
Min Ratio
Max Ratio
TENDL Threshold 109.56 keV
JENDL5.0 Threshold 109.56 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
20
10
0
2 3 4 5 7
10^5
10^6
10^7
10^8
35
Incident Energy (eV)
38-Sr-84

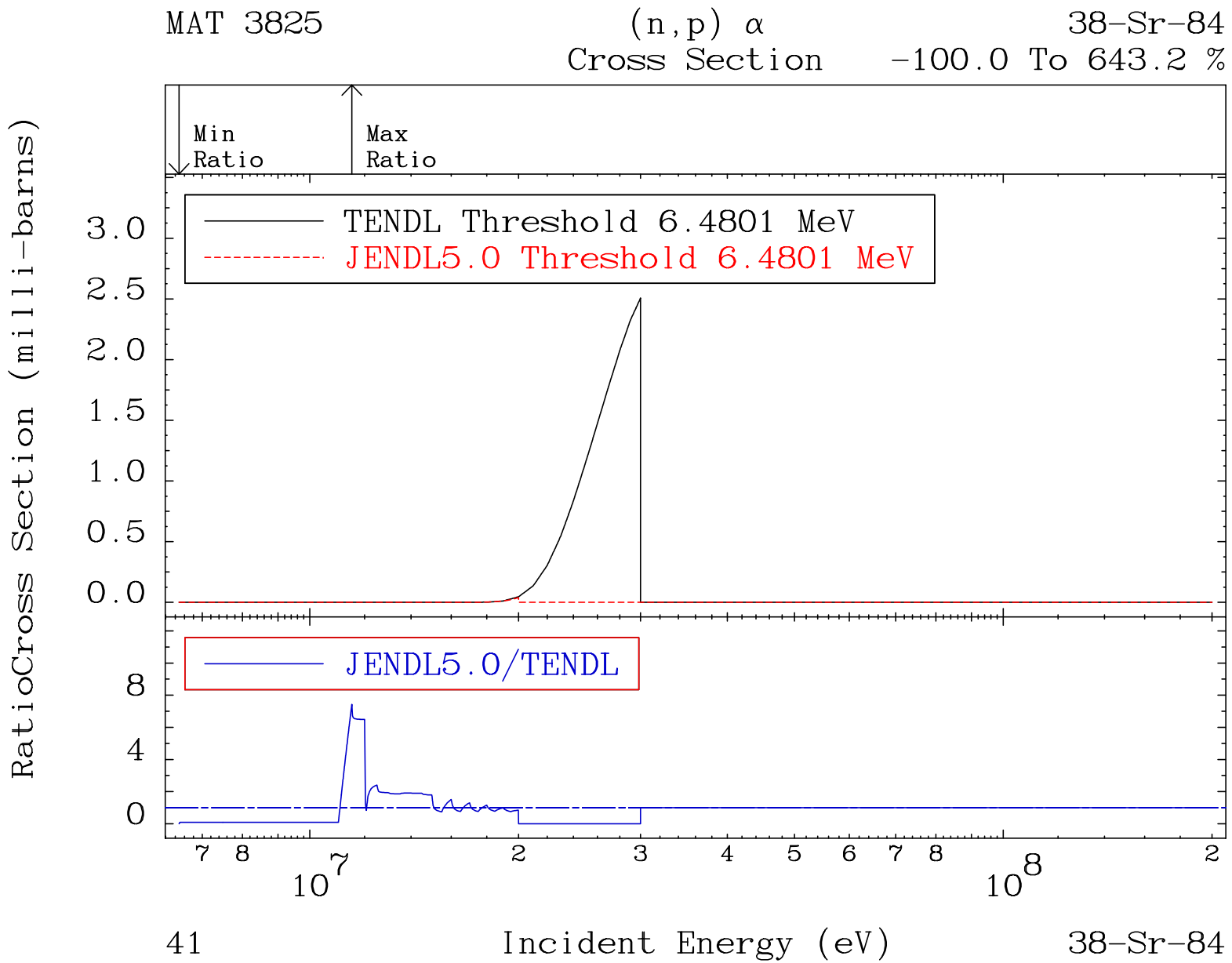

MAT 3825
(n,d)
38-Sr-84
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.7232 MeV
JENDL5.0 Threshold 6.7232 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
38-Sr-84

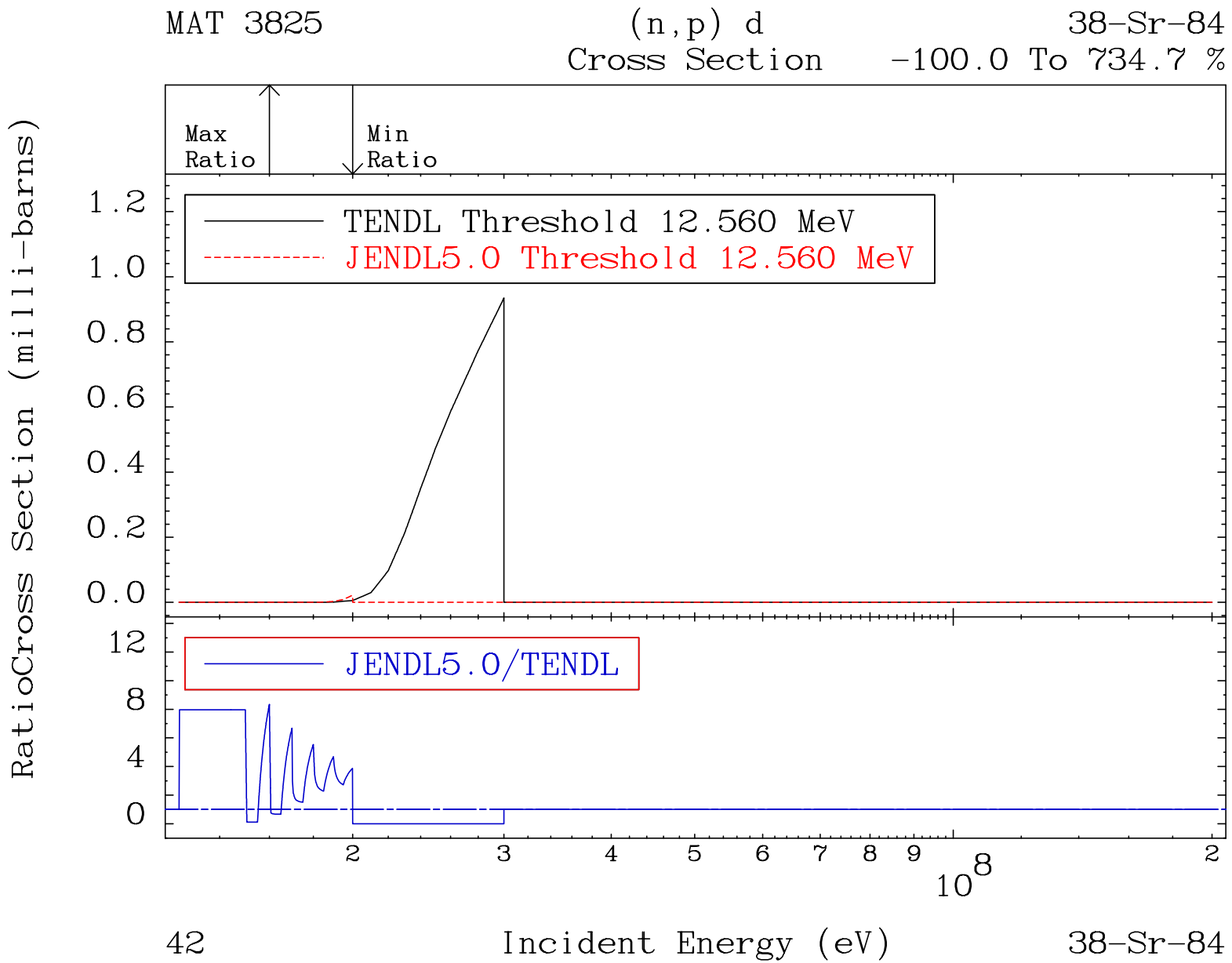

MAT 3825
(n,t)
38-Sr-84
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.477 MeV
JENDL5.0 Threshold 11.477 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
40
20
0
2
3
4
5
6
7
8
9
2
10^8
37
Incident Energy (eV)
38-Sr-84

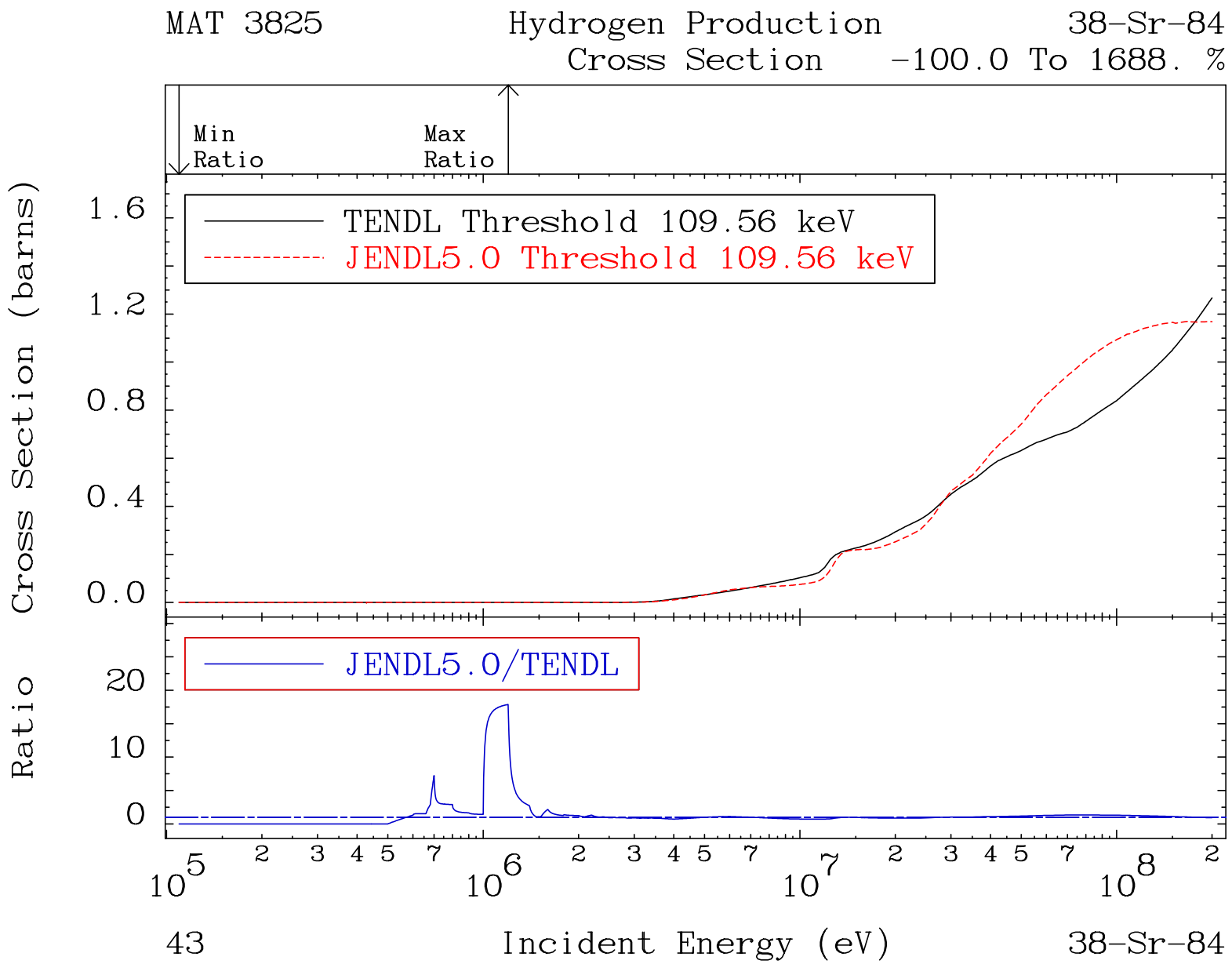

MAT 3825
(n,He-3)
38-Sr-84
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.0008 MeV
JENDL5.0 Threshold 7.0008 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
5
4
3
2
1
0
200
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
38-Sr-84

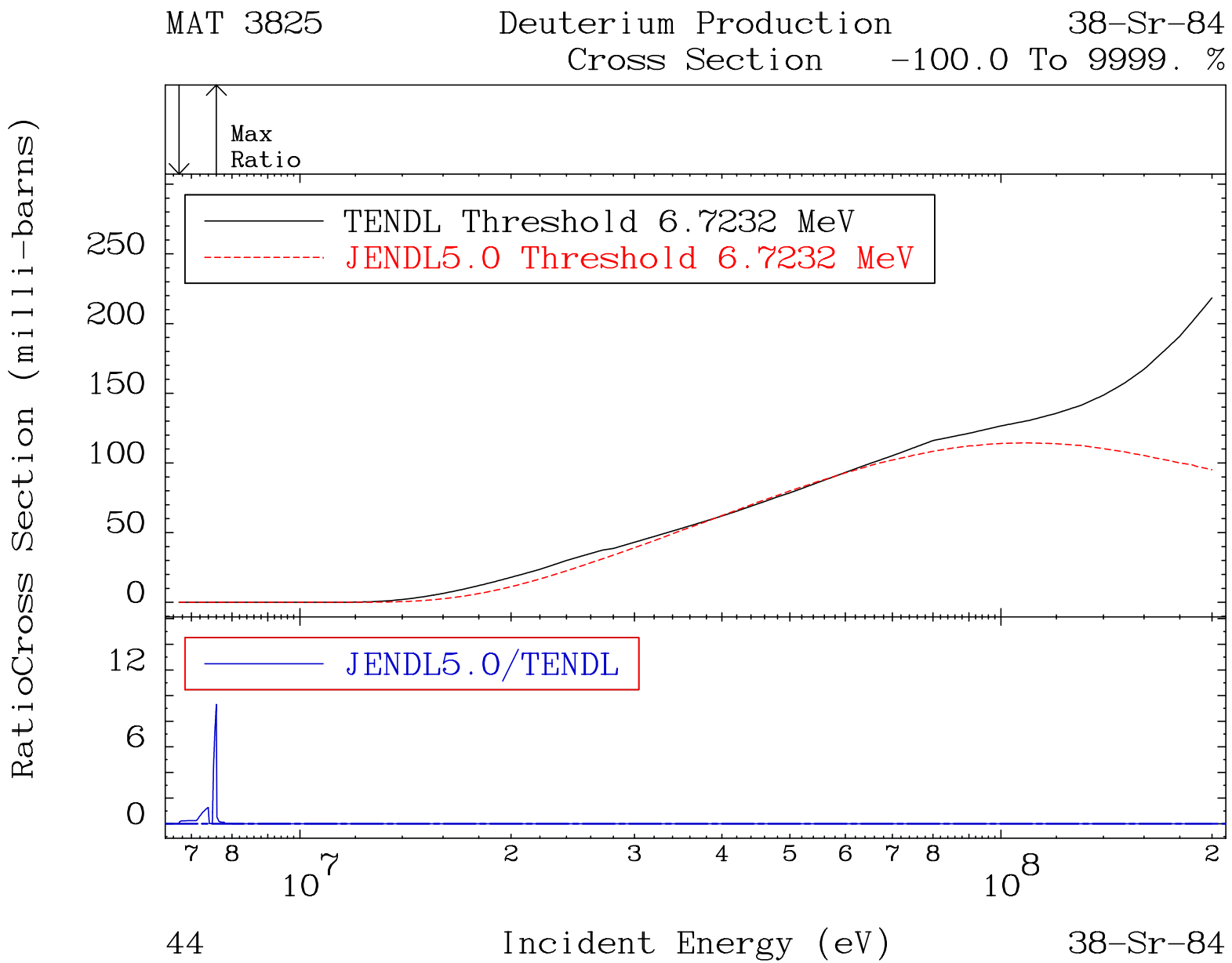

MAT 3825
(n,α)
Cross Section
38-Sr-84
-100.0 To 24.98 %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
38-Sr-84

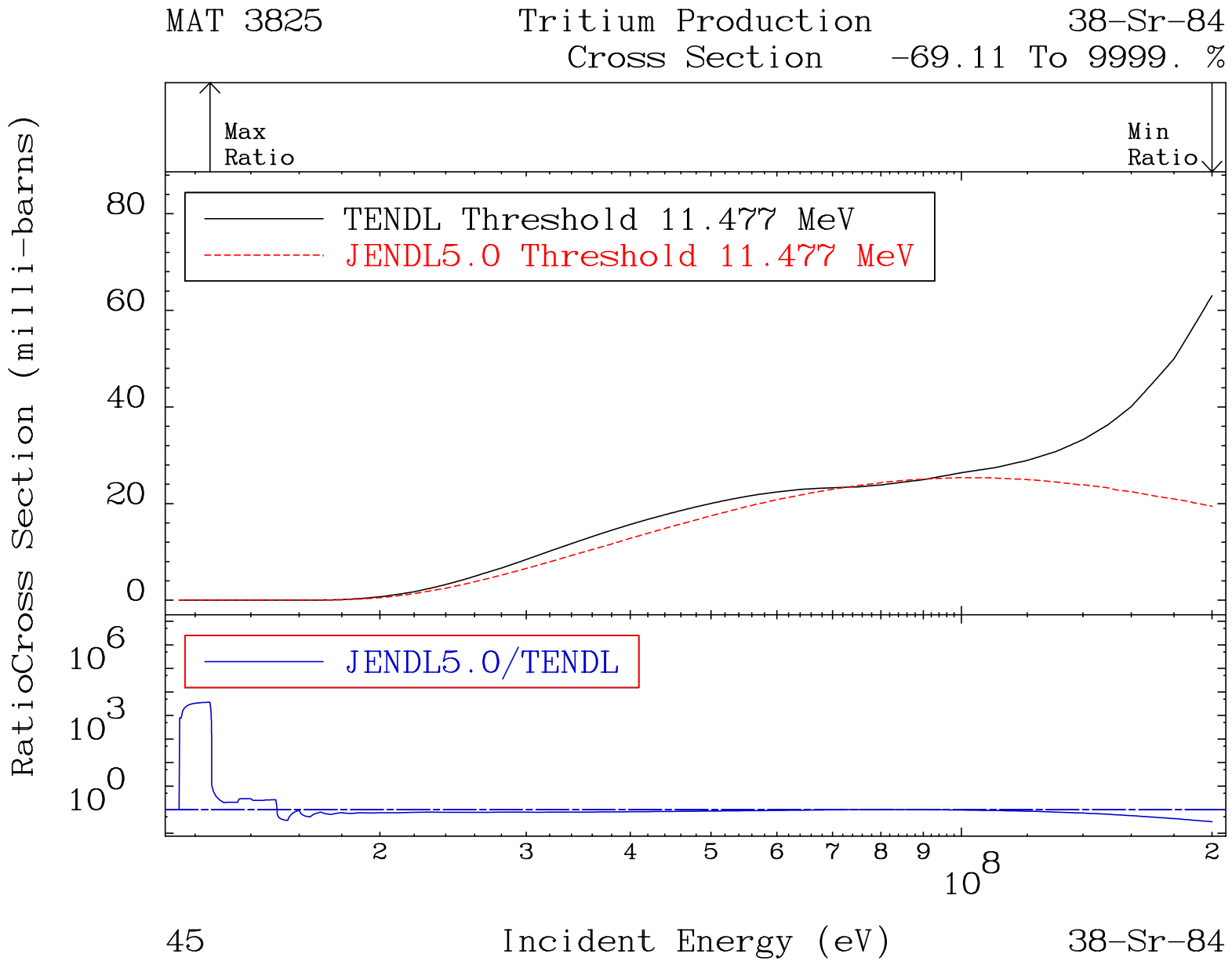

MAT 3825
(n,2p)
38-Sr-84
Cross Section
-100.0 To 1241. %
Max
Ratio
TENDL Threshold 7.2517 MeV
JENDL5.0 Threshold 7.2517 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
10
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
38-Sr-84

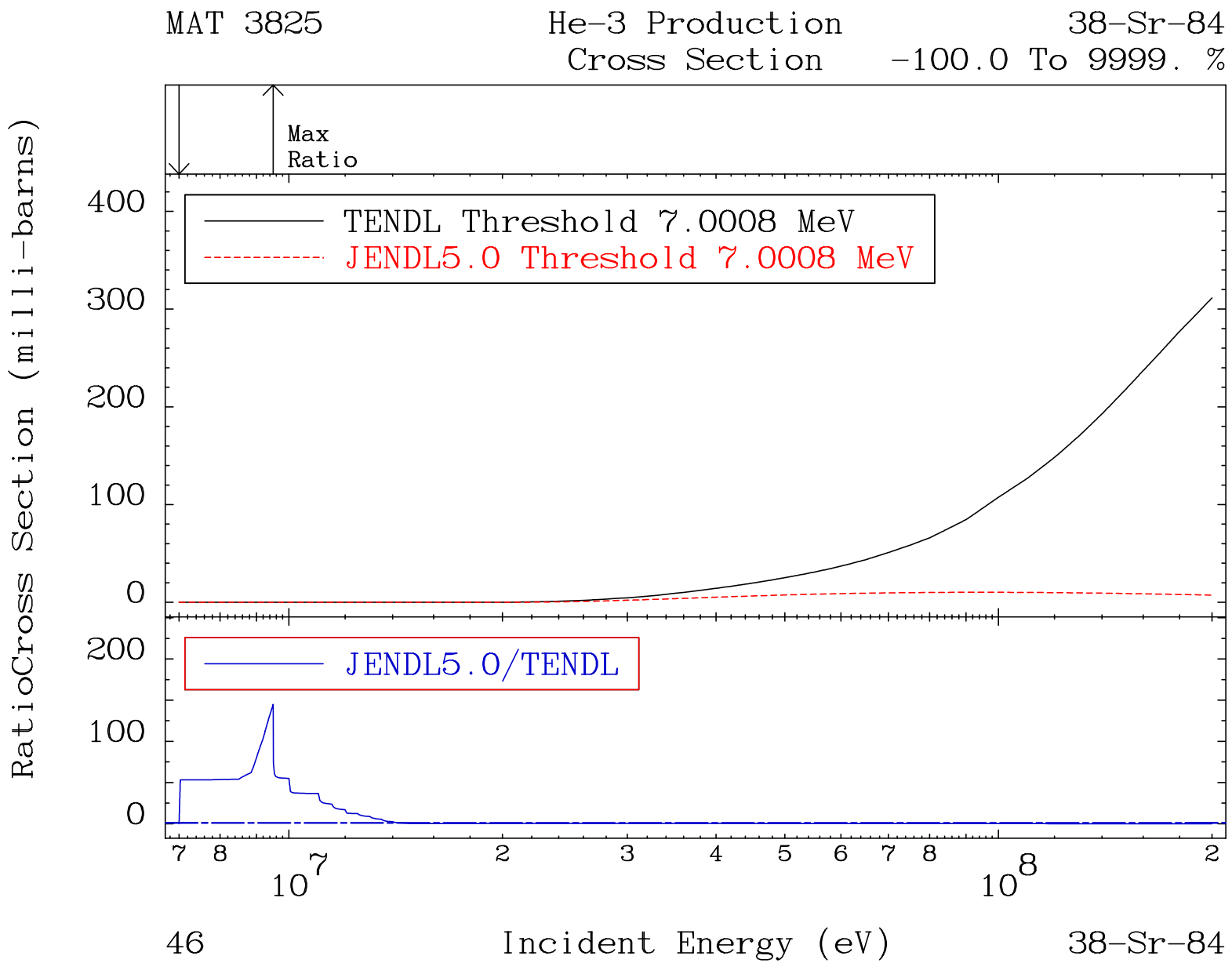

MAT 3825
(n,p) α
38-Sr-84
Cross Section
-100.0 To 643.2 %
Min Ratio
Max Ratio
TENDL Threshold 6.4801 MeV
JENDL5.0 Threshold 6.4801 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
8
4
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
38-Sr-84

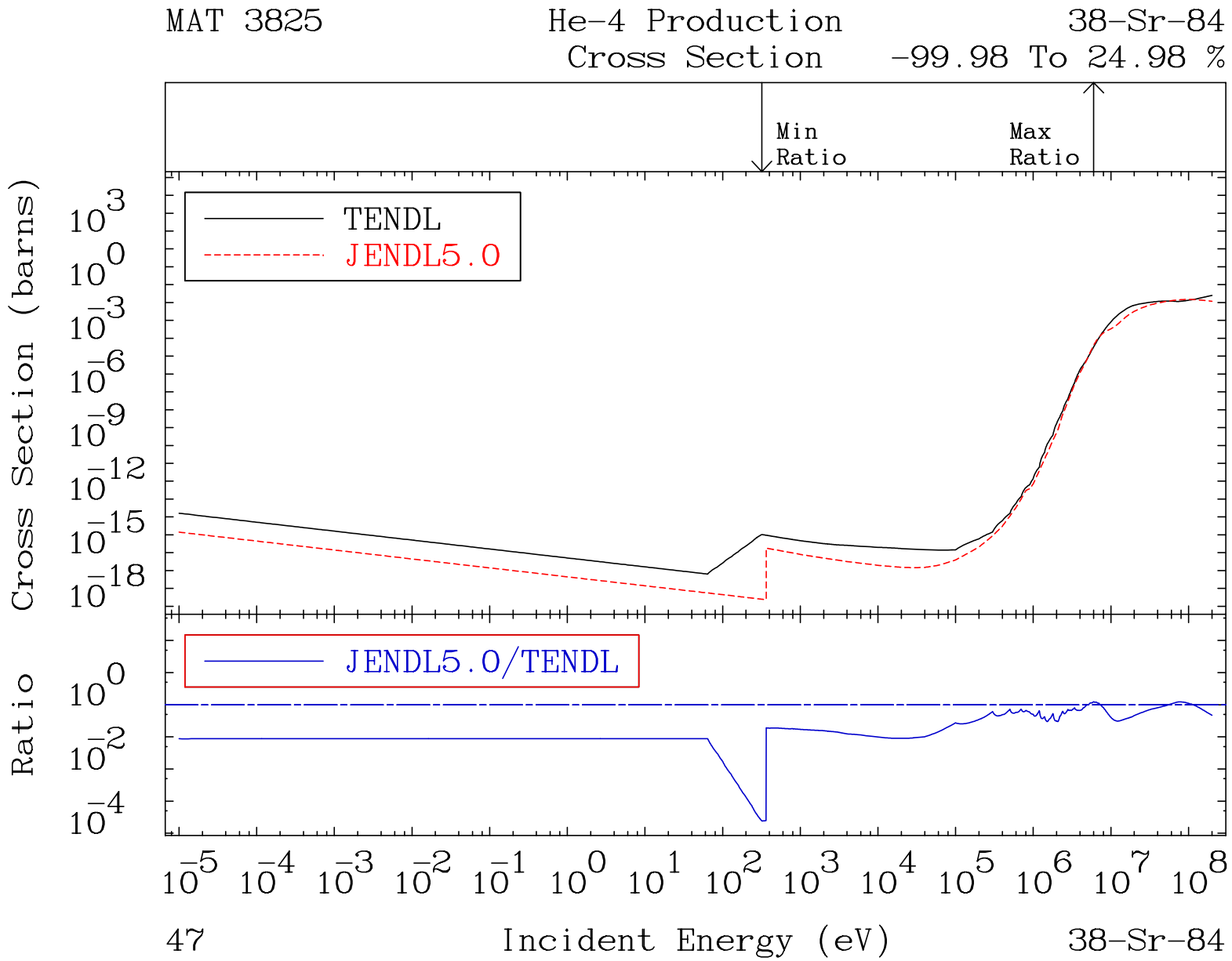

MAT 3825
(n,p) d
Cross Section
38-Sr-84
-100.0 To 734.7 %
Max Ratio
Min Ratio
TENDL Threshold 12.560 MeV
JENDL5.0 Threshold 12.560 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
12
8
4
0
2
3
4
5
6
7
8
9
2
10^8
42
Incident Energy (eV)
38-Sr-84

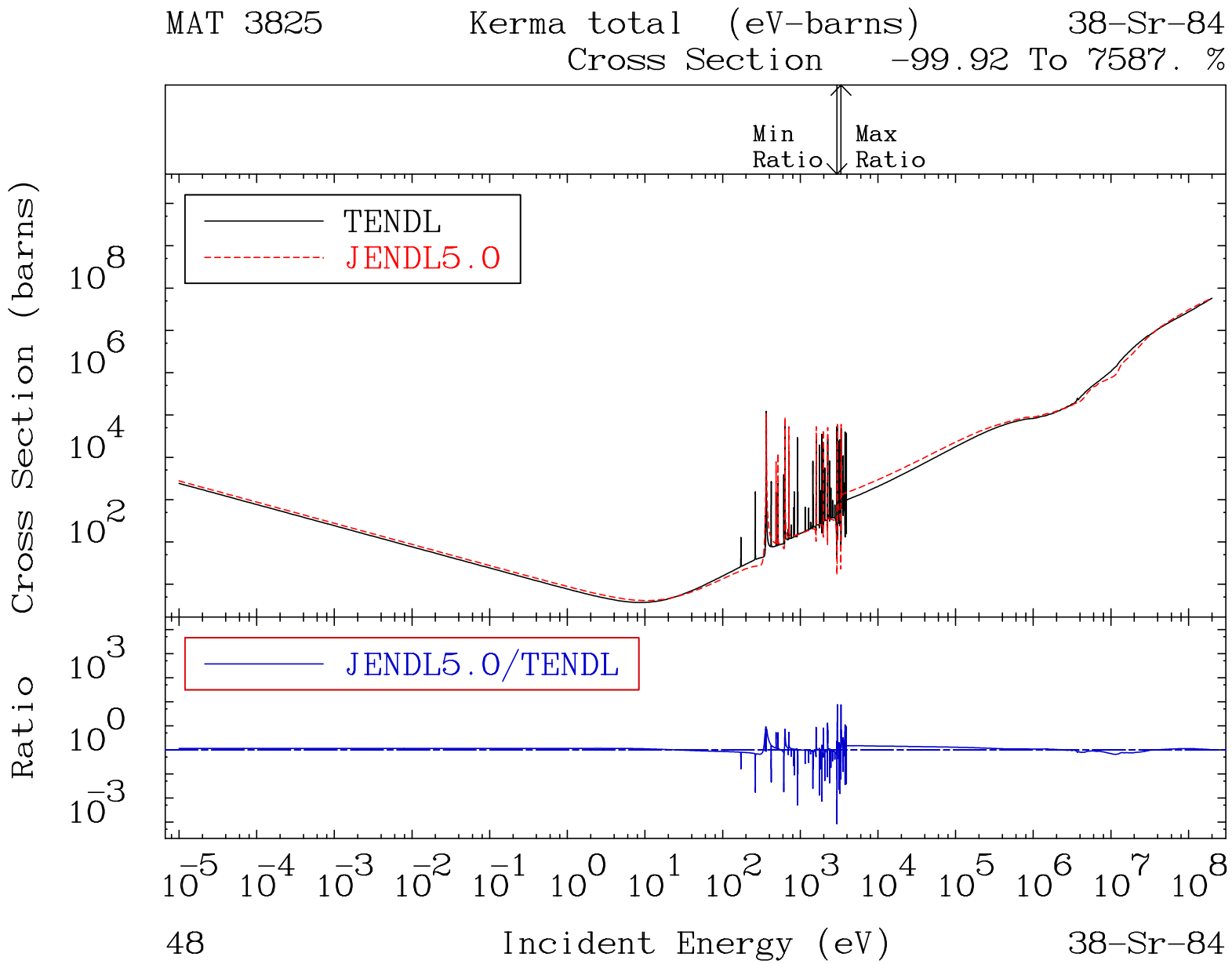

MAT 3825
Hydrogen Production
38-Sr-84
Cross Section -100.0 To 1688. %
Min Ratio
Max Ratio
TENDL Threshold 109.56 keV
JENDL5.0 Threshold 109.56 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
20
10
0
2 3 4 5 7
10^5
10^6
10^7
10^8
43
Incident Energy (eV)
38-Sr-84

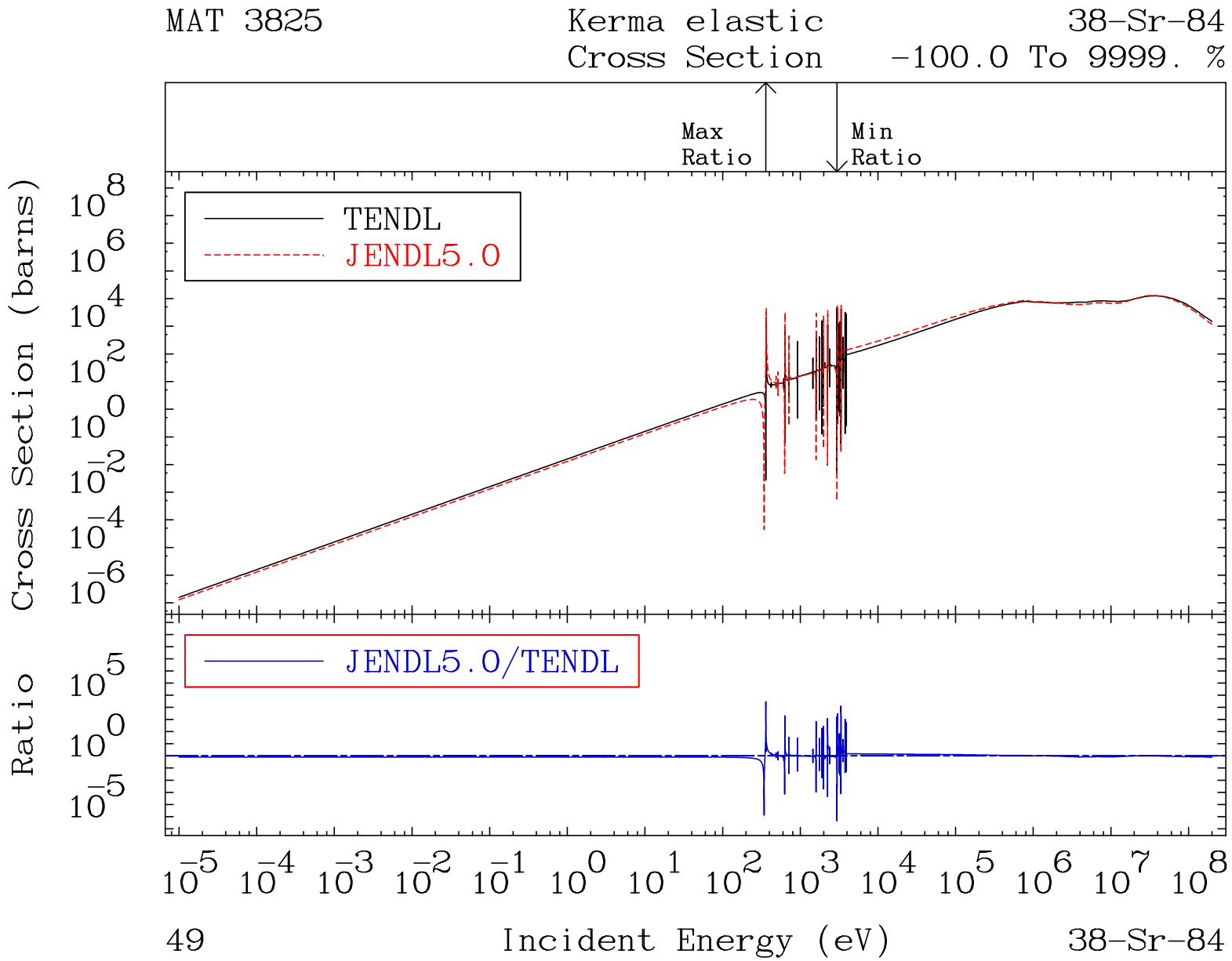

MAT 3825
Deuterium Production
38-Sr-84
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.7232 MeV
JENDL5.0 Threshold 6.7232 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
38-Sr-84

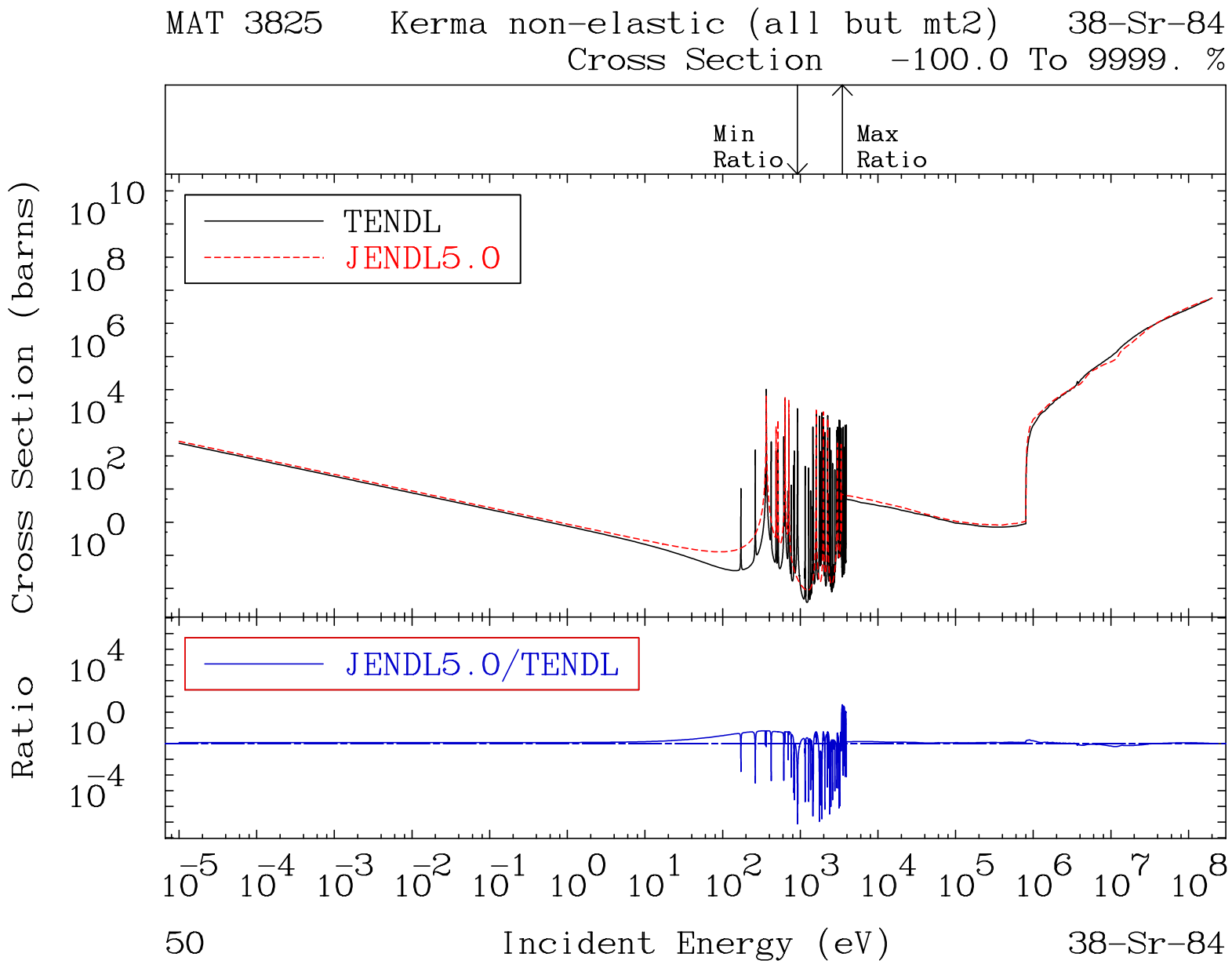

MAT 3825
Tritium Production
38-Sr-84
Cross Section -69.11 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.477 MeV
JENDL5.0 Threshold 11.477 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
38-Sr-84

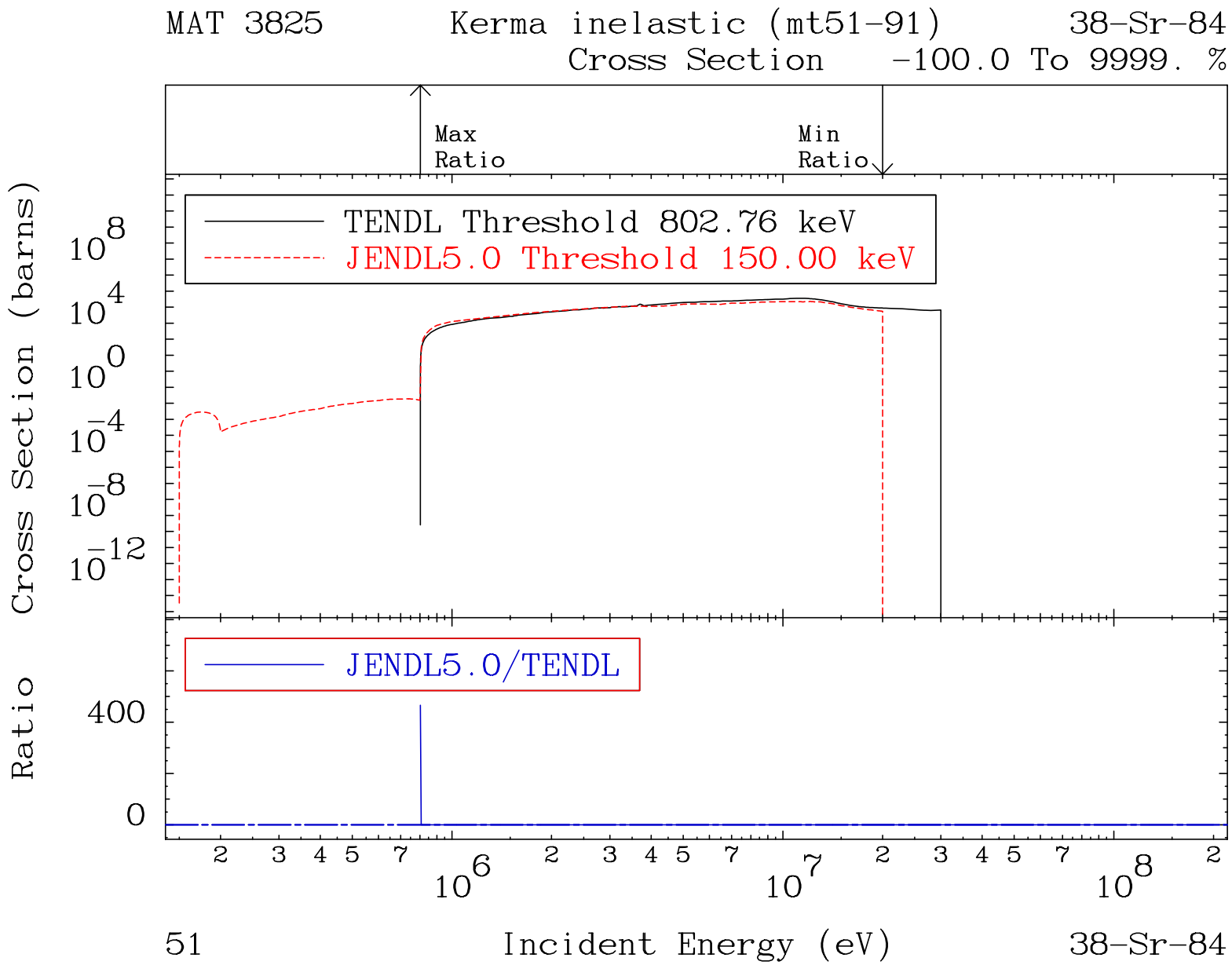

MAT 3825
He-3 Production
38-Sr-84
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.0008 MeV
JENDL5.0 Threshold 7.0008 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
200
100
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
38-Sr-84

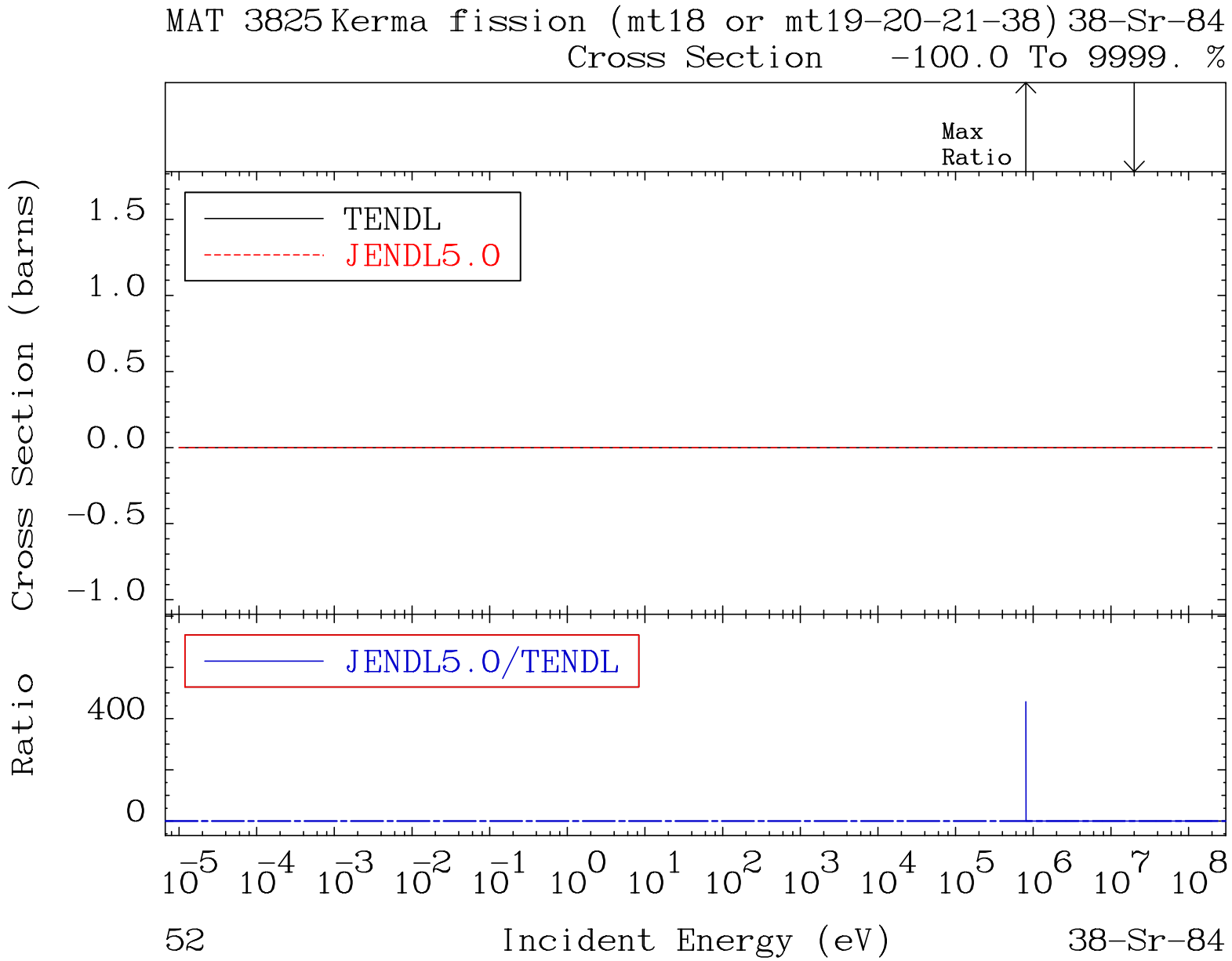

MAT 3825
He-4 Production
Cross Section
38-Sr-84
-99.98 To 24.98 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
38-Sr-84

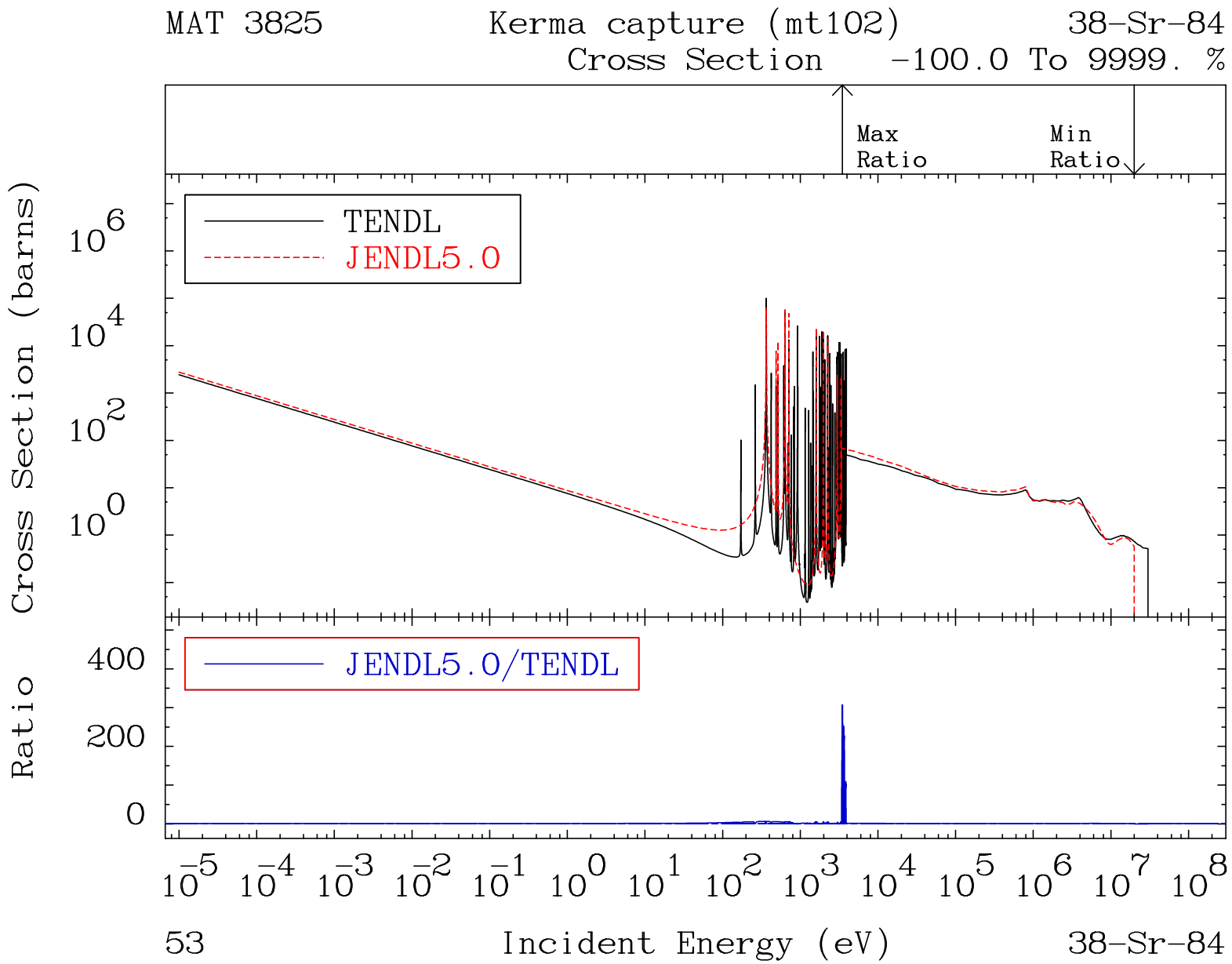

MAT 3825
Kerma total (eV-barns)
38-Sr-84
Cross Section -99.92 To 7587. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
38-Sr-84

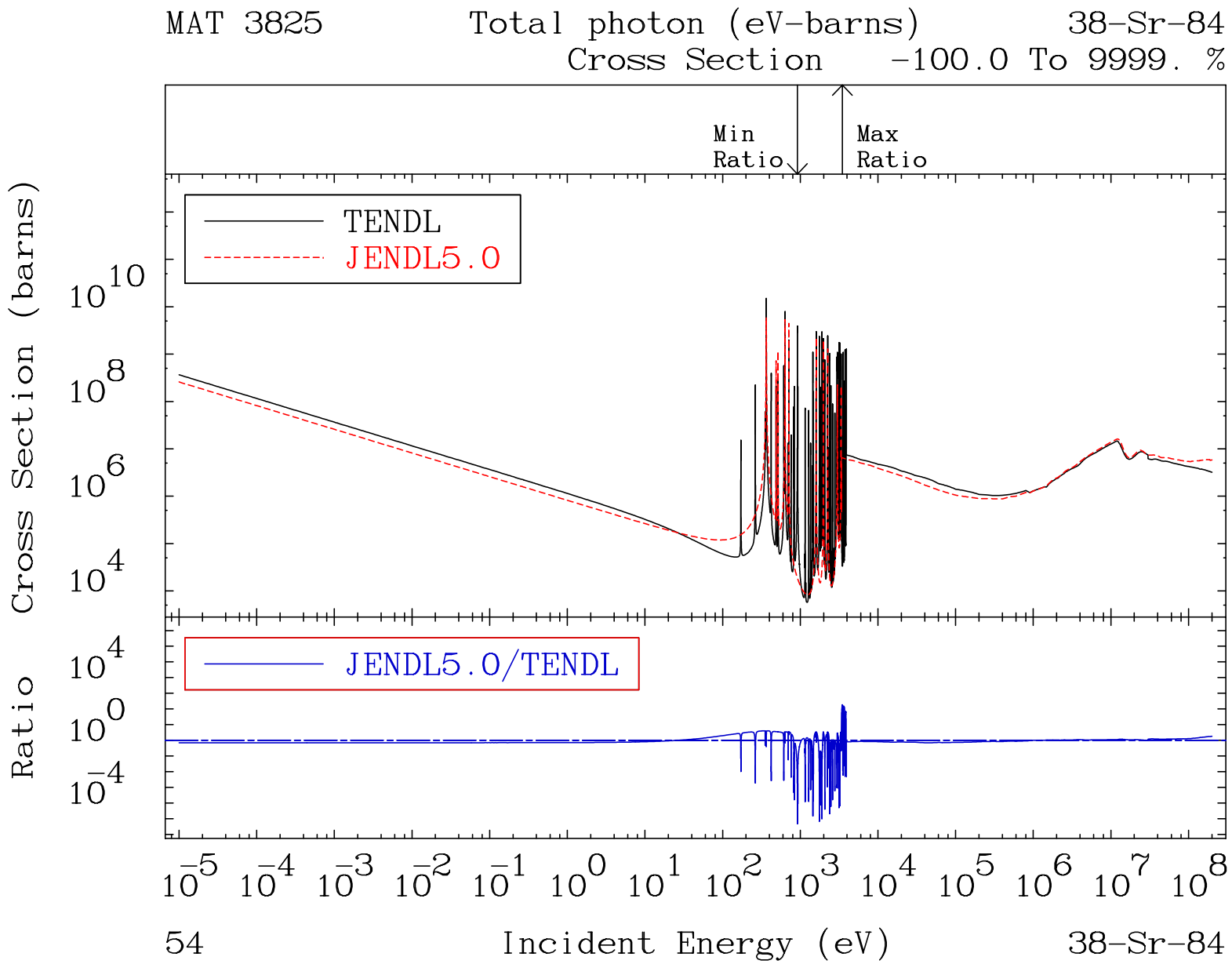

MAT 3825
Kerma elastic
Cross Section
38-Sr-84
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
38-Sr-84

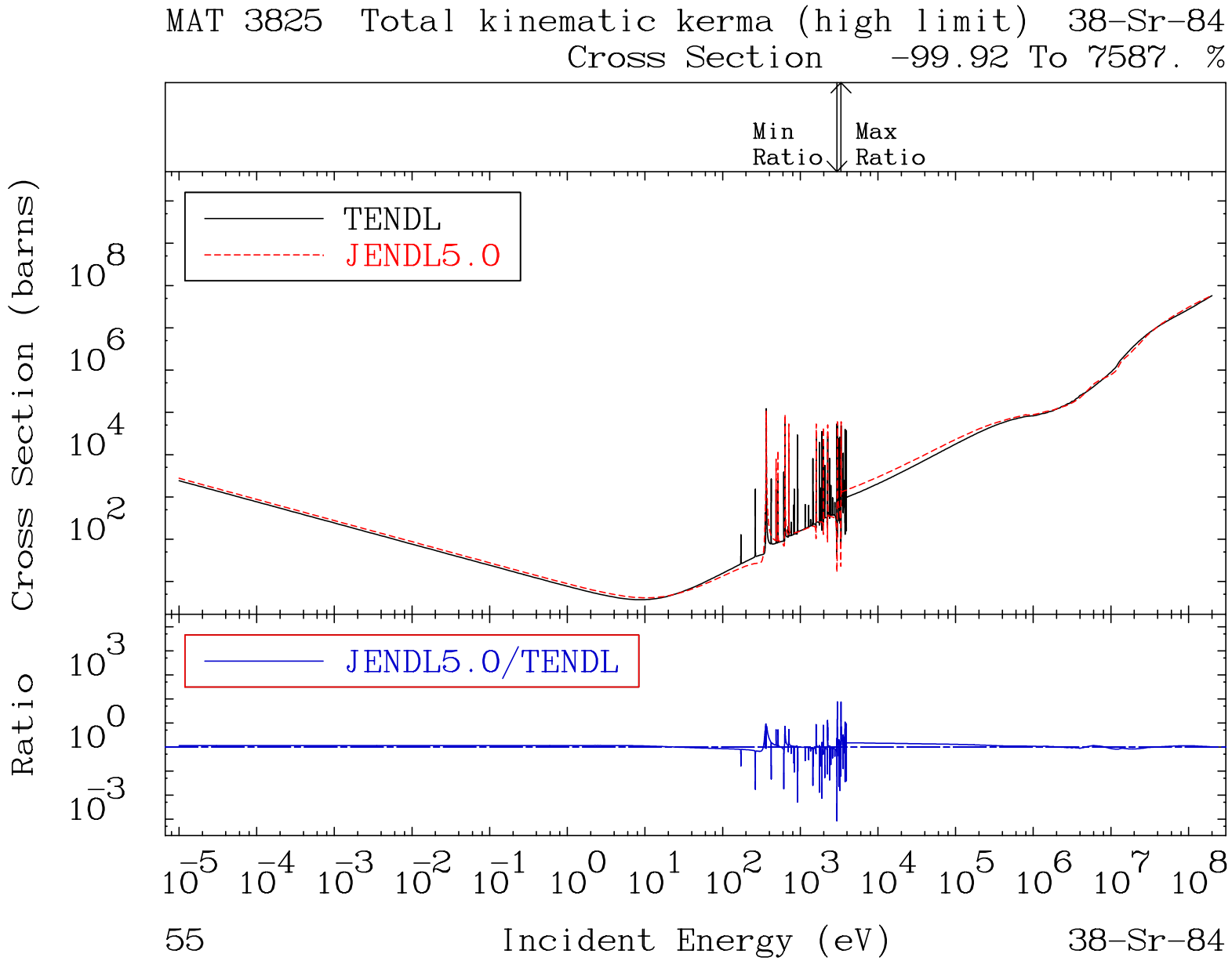

MAT 3825 Kerma non-elastic (all but mt2) 38-Sr-84
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
50
38-Sr-84

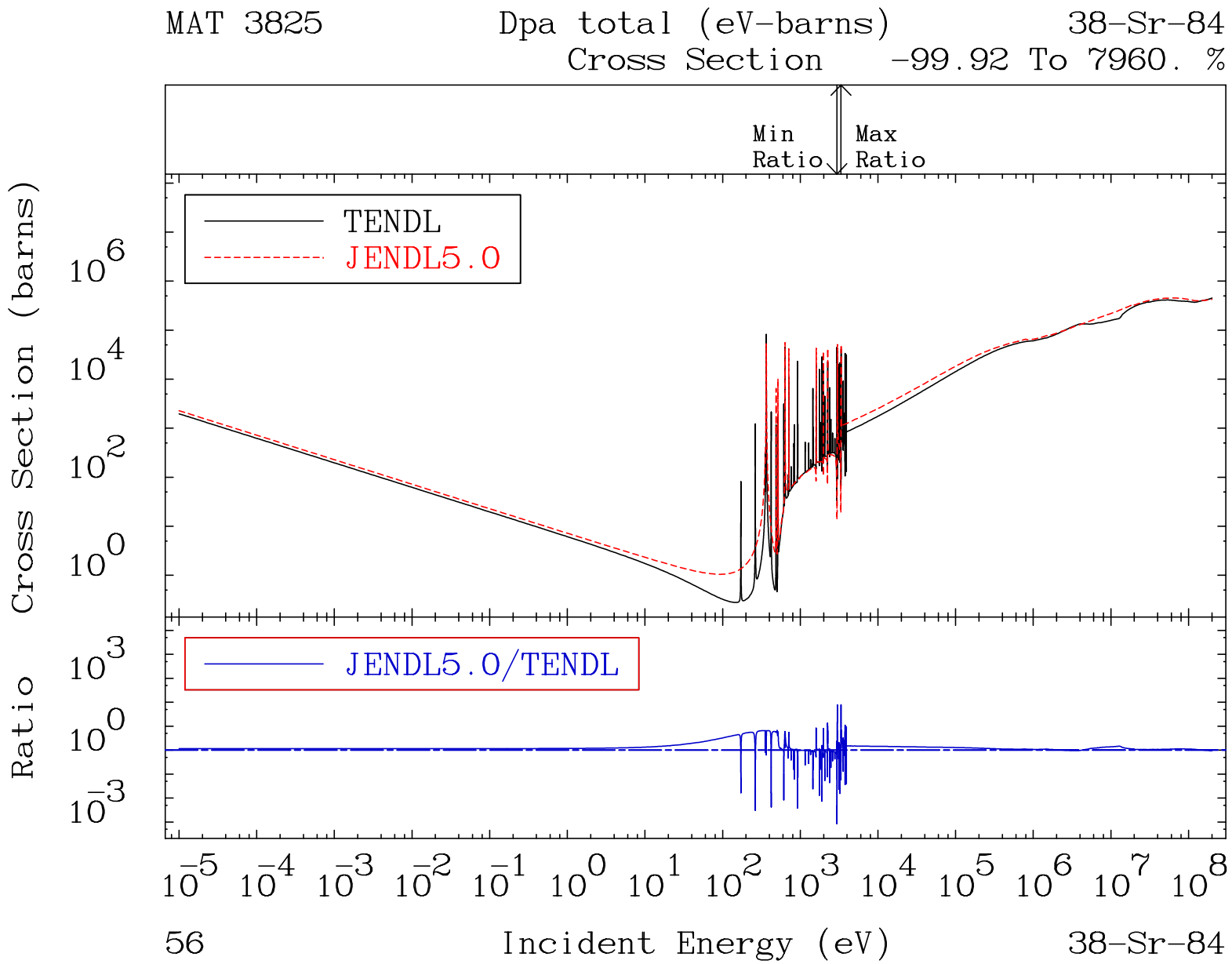

MAT 3825
Kerma inelastic (mt51-91)
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 802.76 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
38-Sr-84

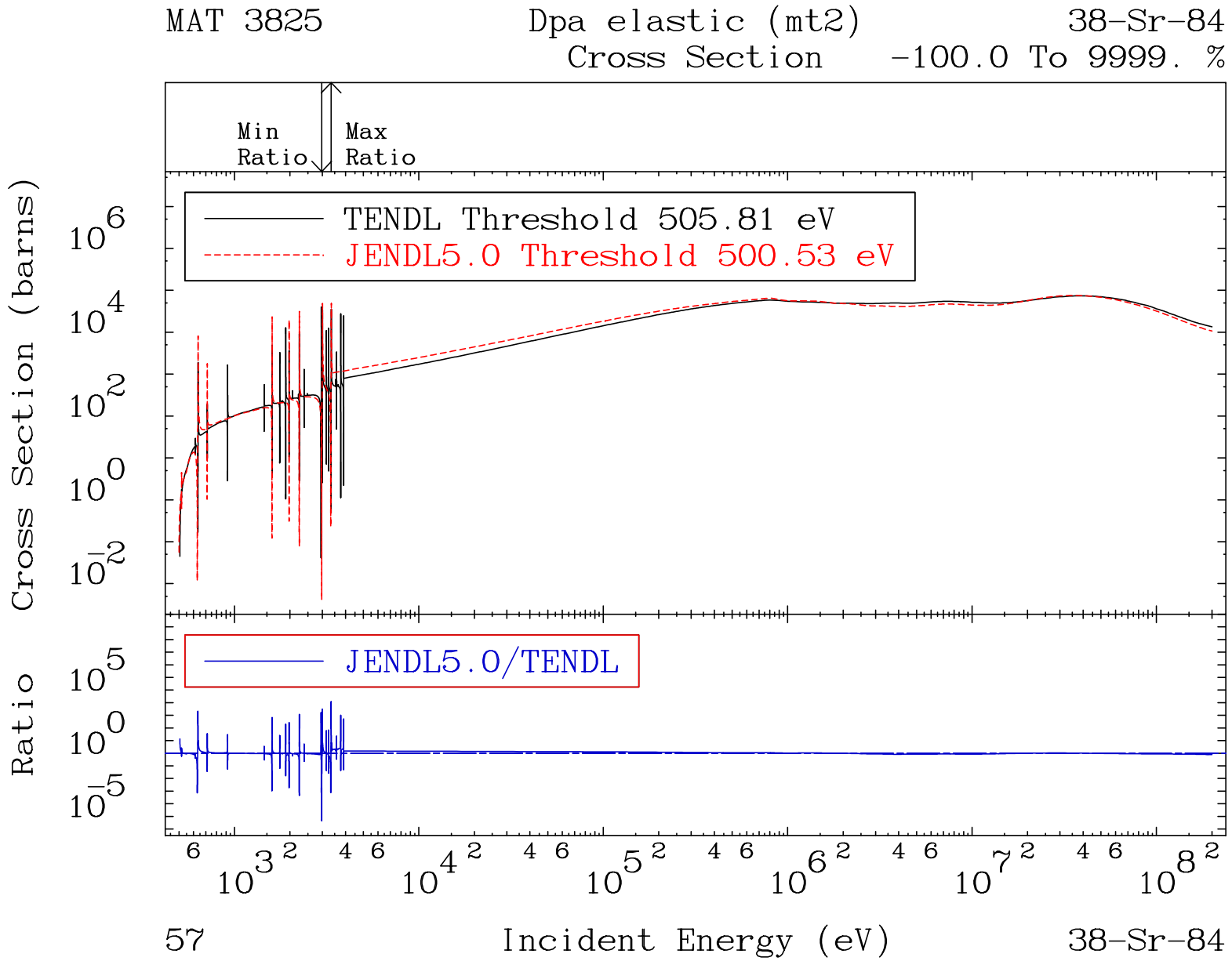

MAT 3825 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-84
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
400
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
52
Incident Energy (eV)
38-Sr-84

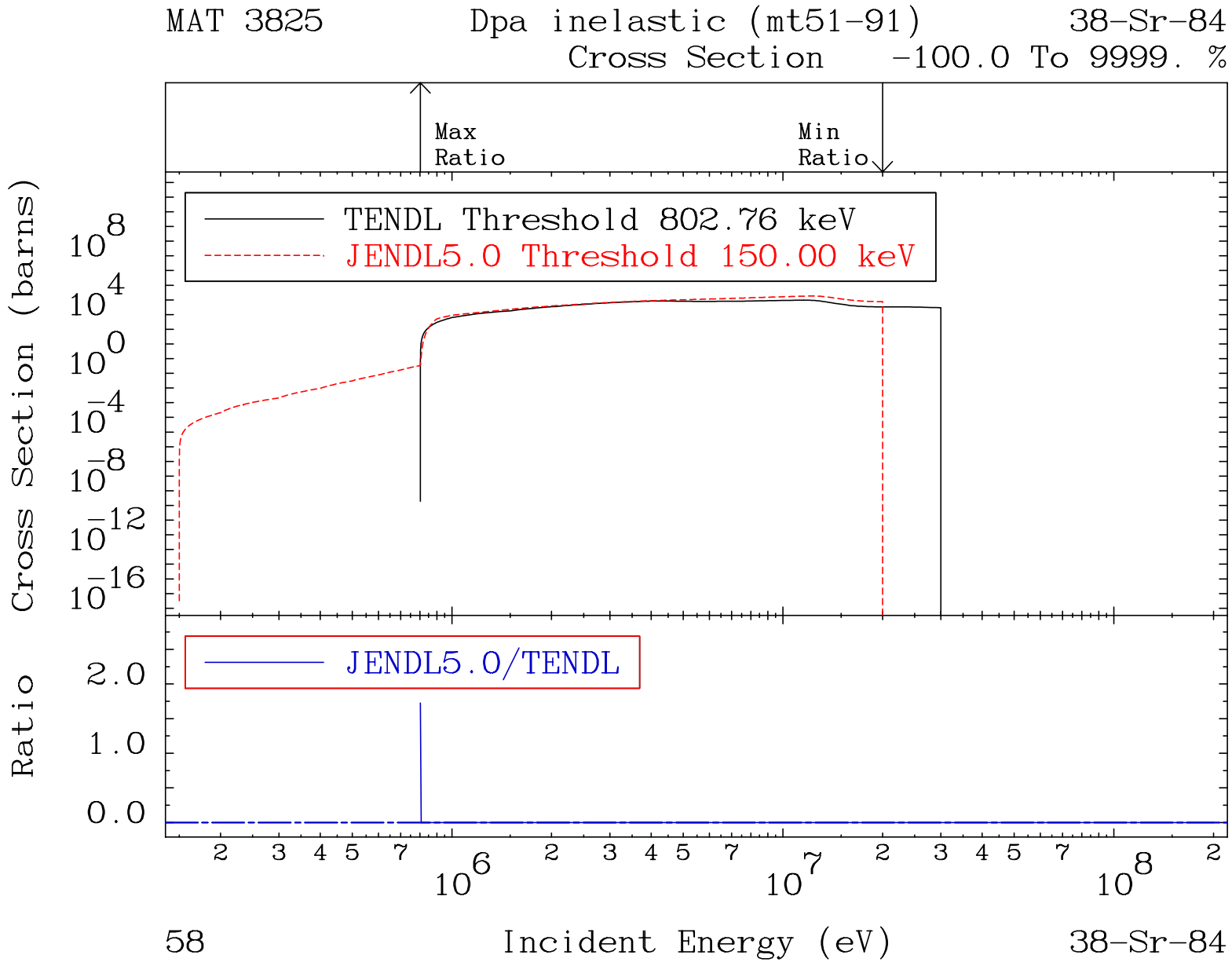

MAT 3825
Kerma capture (mt102)
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
38-Sr-84

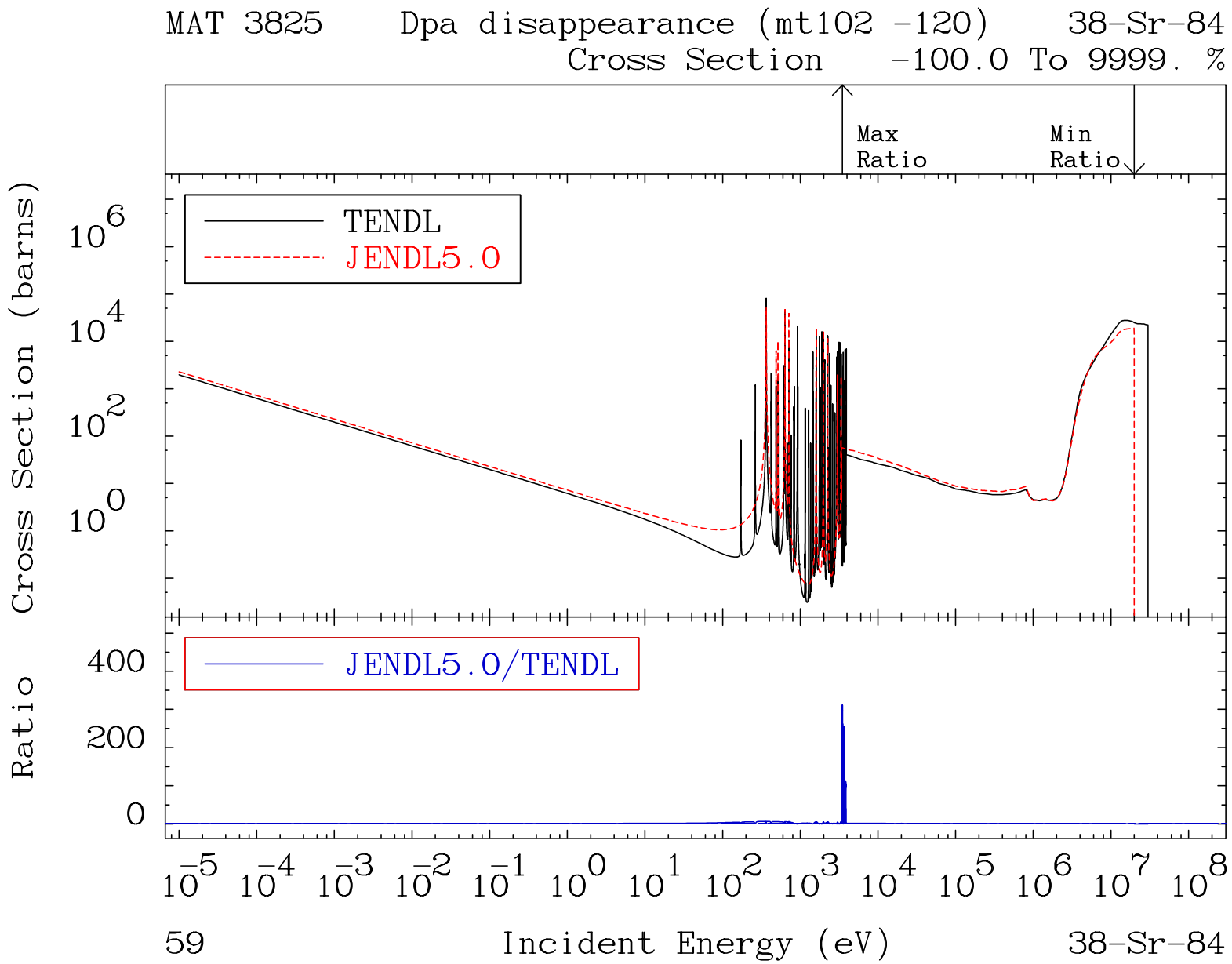

MAT 3825
Total photon (eV-barns)
38-Sr-84
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
38-Sr-84

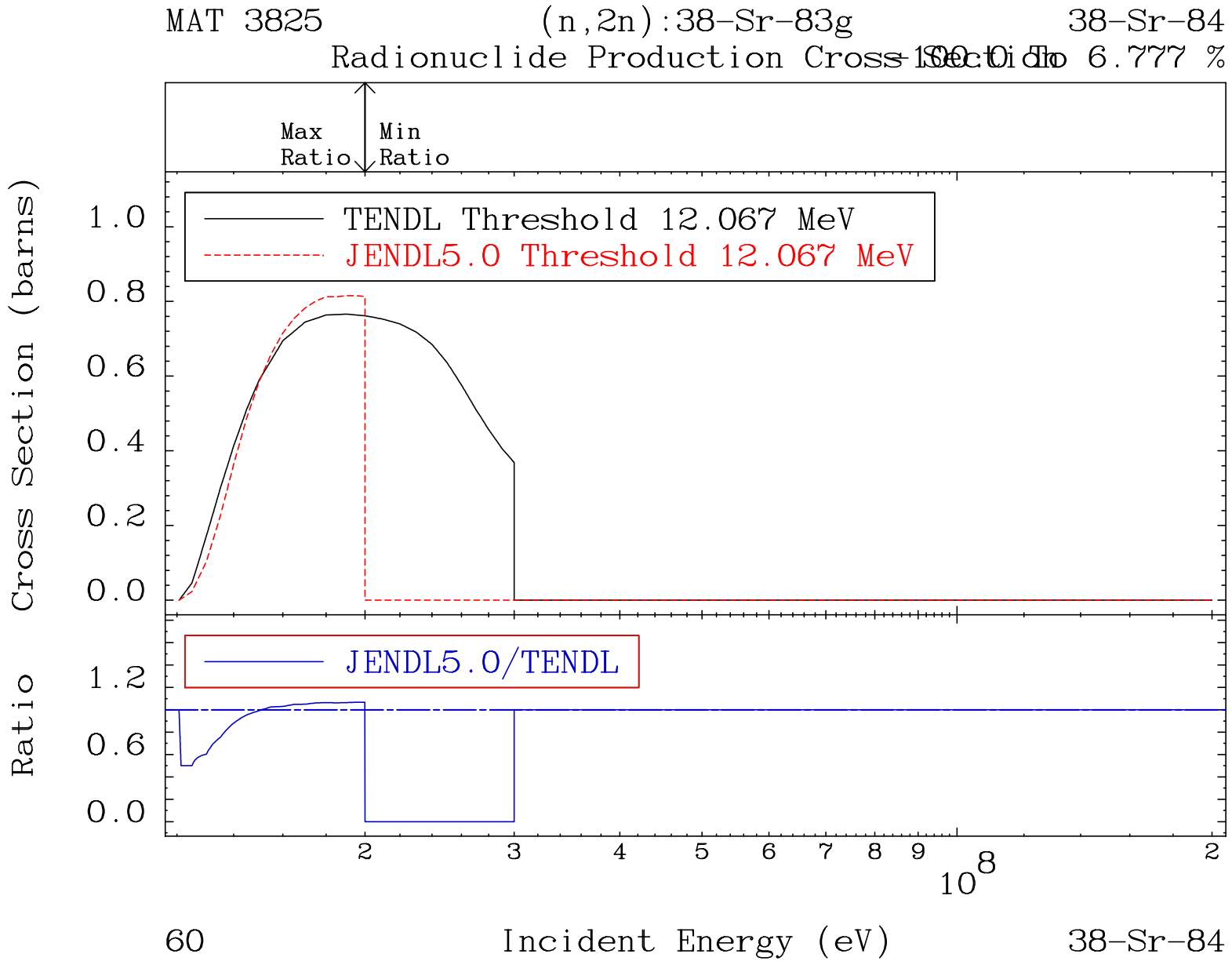

MAT 3825 Total kinematic kerma (high limit) 38-Sr-84
Cross Section -99.92 To 7587. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
55
38-Sr-84

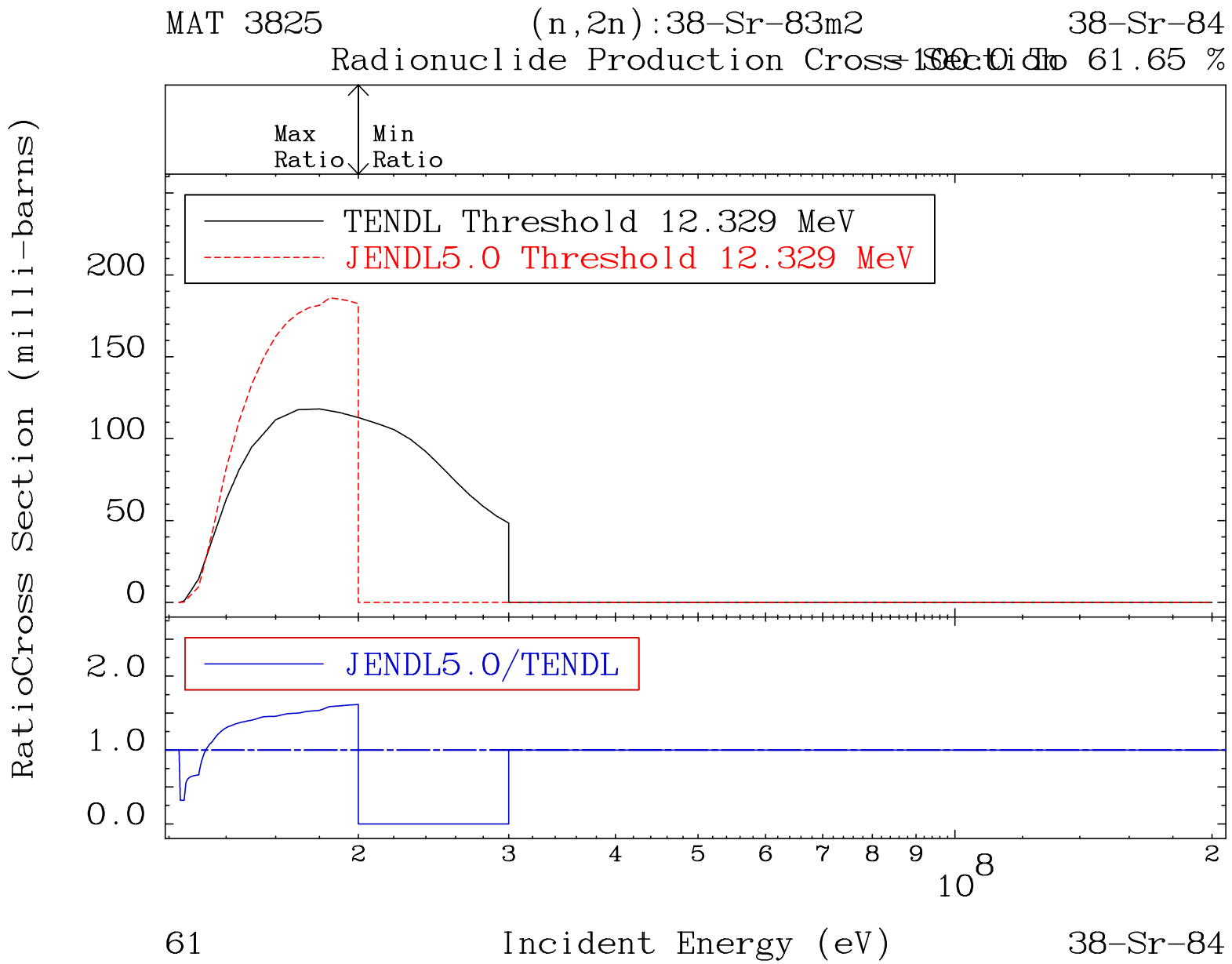

MAT 3825
Dpa total (eV-barns)
38-Sr-84
Cross Section
-99.92 To 7960. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
38-Sr-84

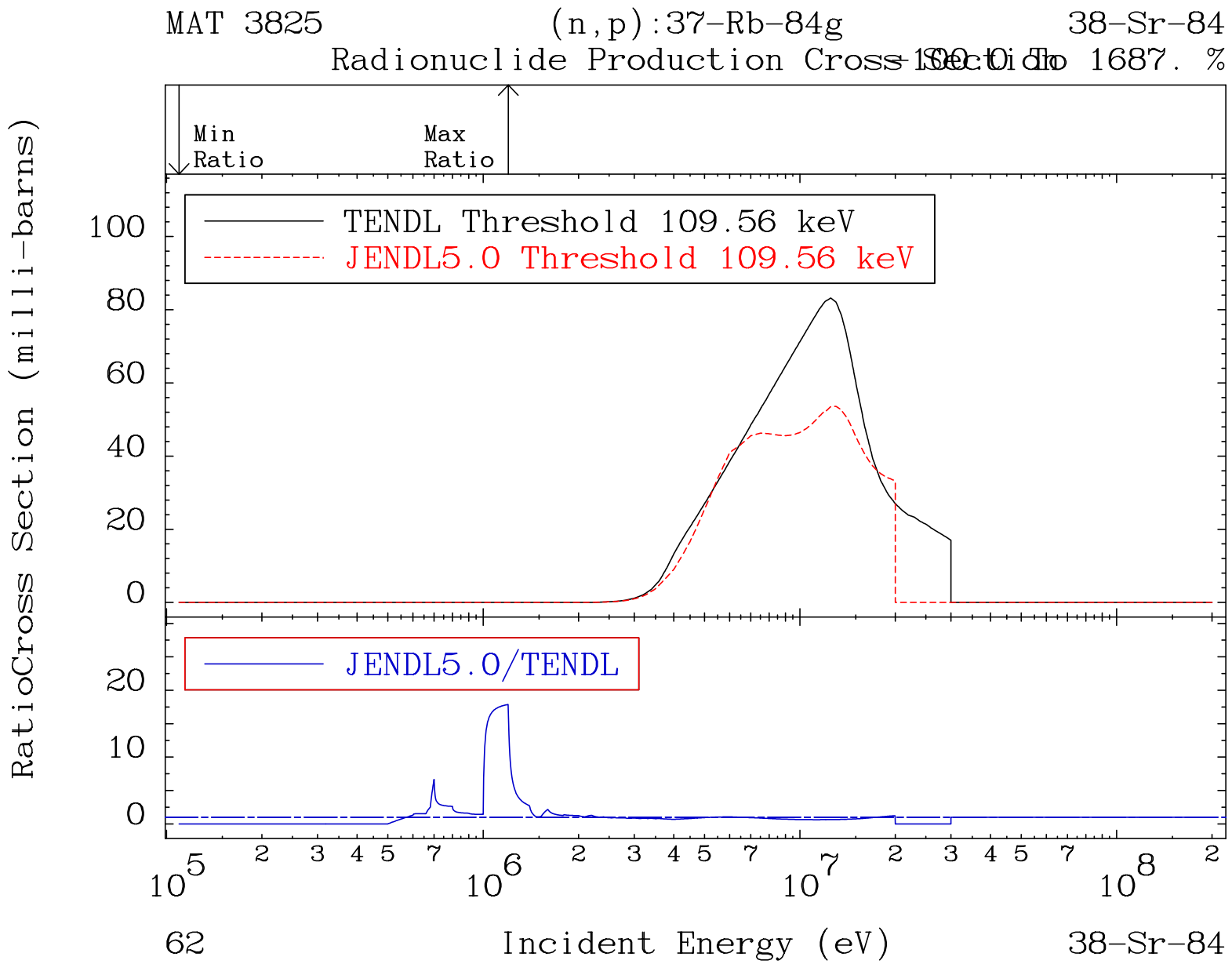

MAT 3825
Dpa elastic (mt2)
Cross Section
38-Sr-84
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 505.81 eV
JENDL5.0 Threshold 500.53 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
38-Sr-84

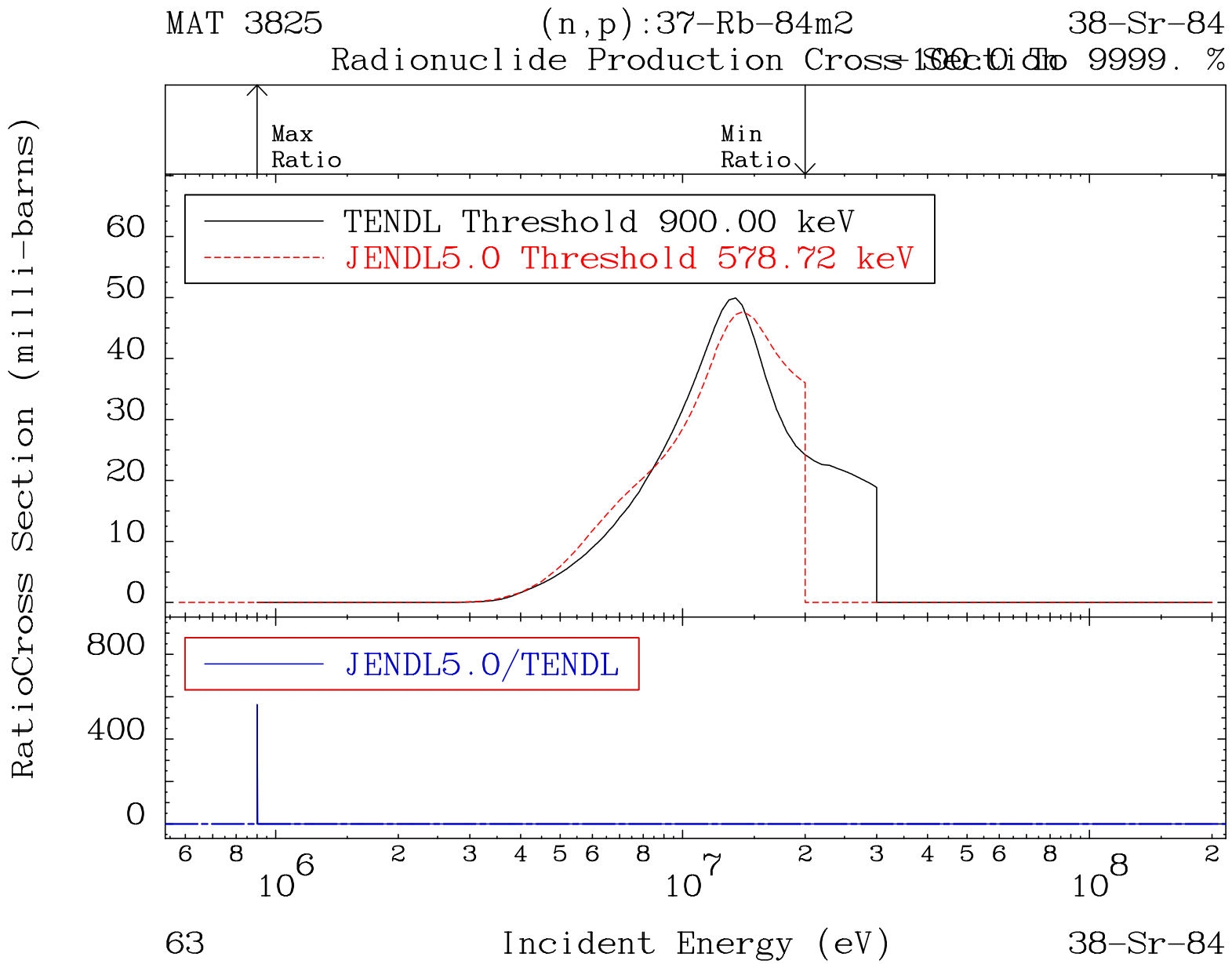

MAT 3825
Dpa inelastic (mt51-91)
38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 802.76 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
38-Sr-84

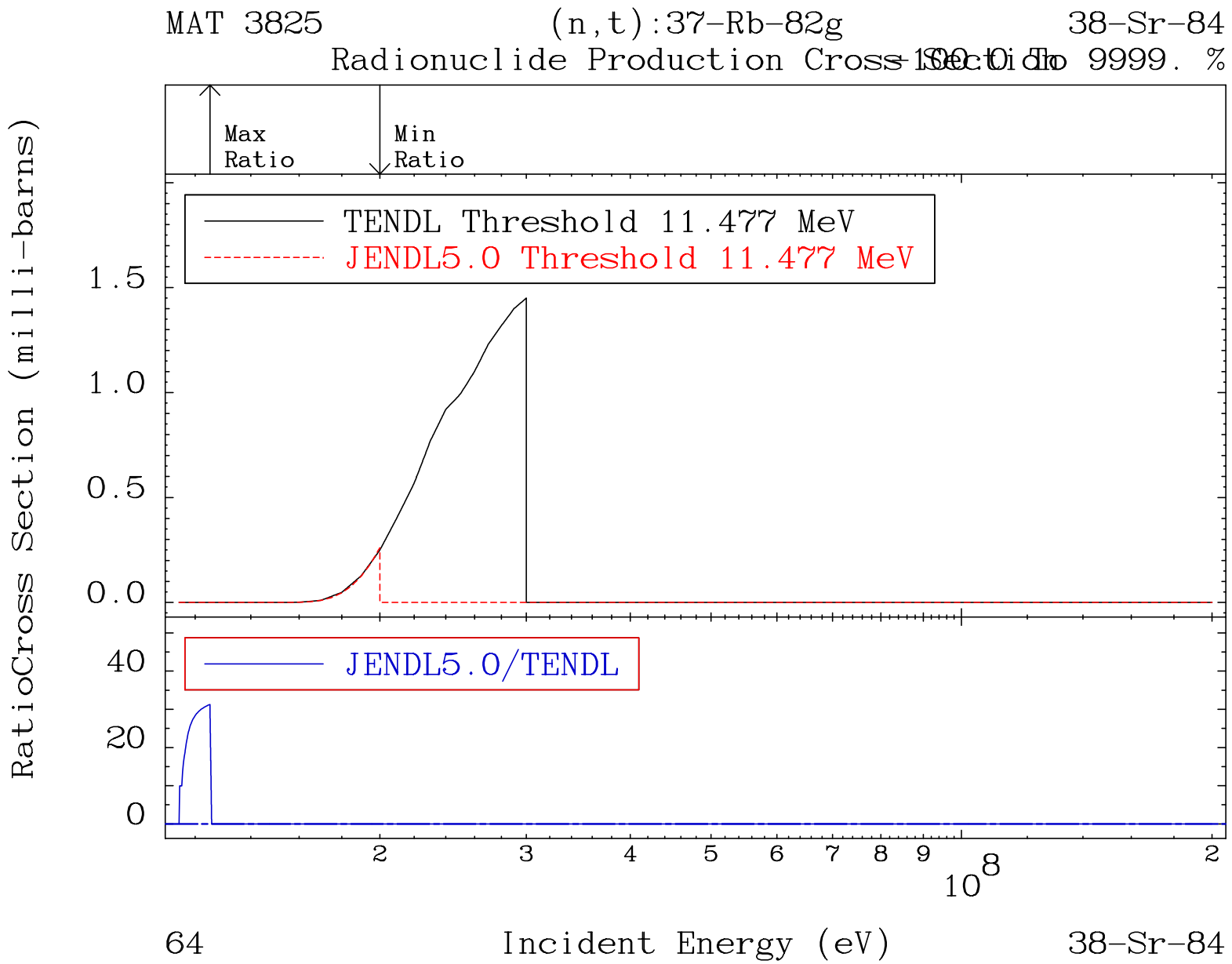

MAT 3825 Dpa disappearance (mt102 -120) 38-Sr-84
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
38-Sr-84

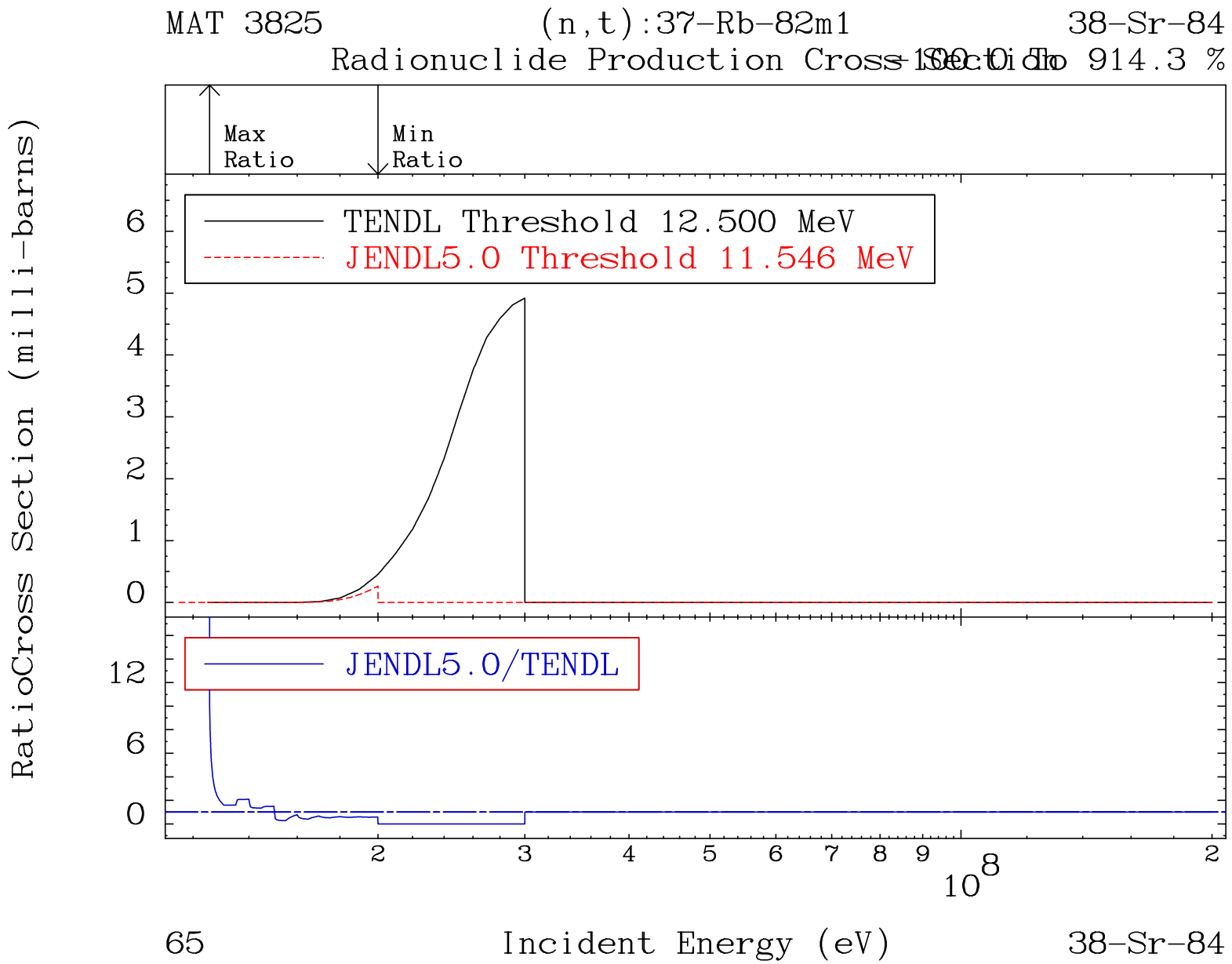

MAT 3825
(n,2n):38-Sr-83g
38-Sr-84
Radionuclide Production Cross Section To 6.777 %
Max Ratio
Min Ratio
TENDL Threshold 12.067 MeV
JENDL5.0 Threshold 12.067 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
60
Incident Energy (eV)
38-Sr-84

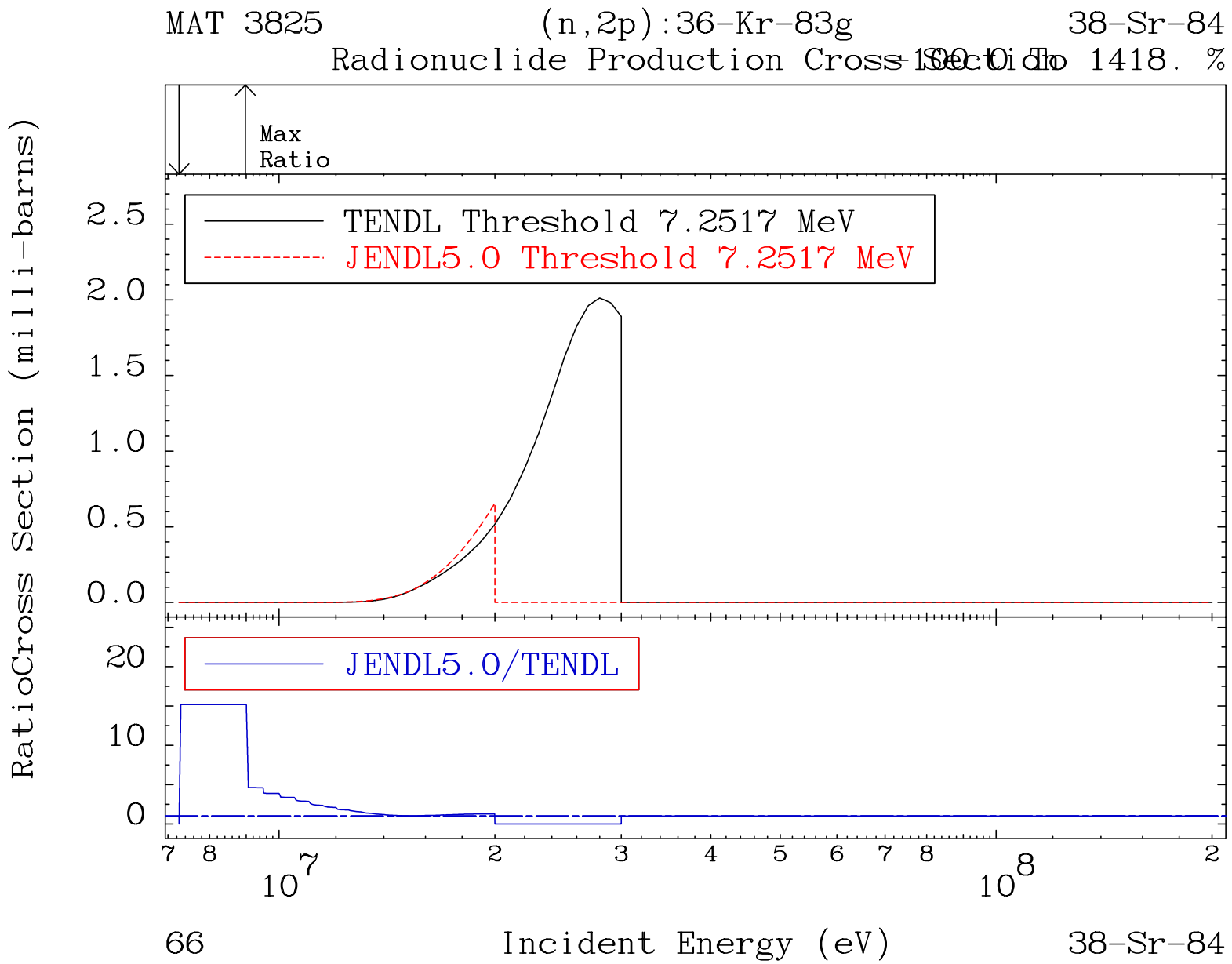

MAT 3825
(n,2n):38-Sr-83m2
38-Sr-84
Radionuclide Production Cross Section To 61.65 %
Max Ratio
Min Ratio
TENDL Threshold 12.329 MeV
JENDL5.0 Threshold 12.329 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
38-Sr-84

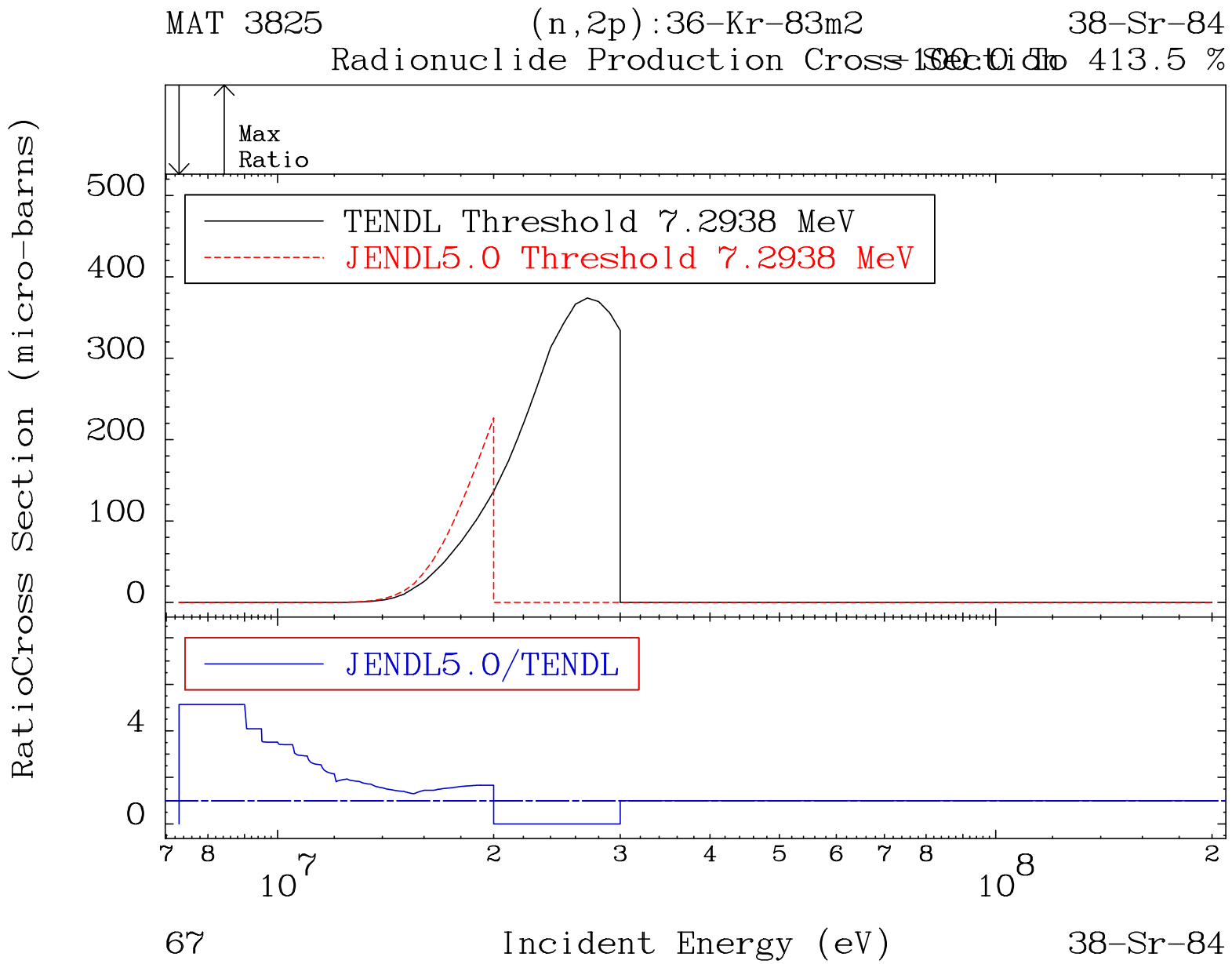

MAT 3825
(n,p):37-Rb-84g
38-Sr-84
Radionuclide Production Cross Section To 1687. %
Min Ratio
Max Ratio
TENDL Threshold 109.56 keV
JENDL5.0 Threshold 109.56 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
62
38-Sr-84

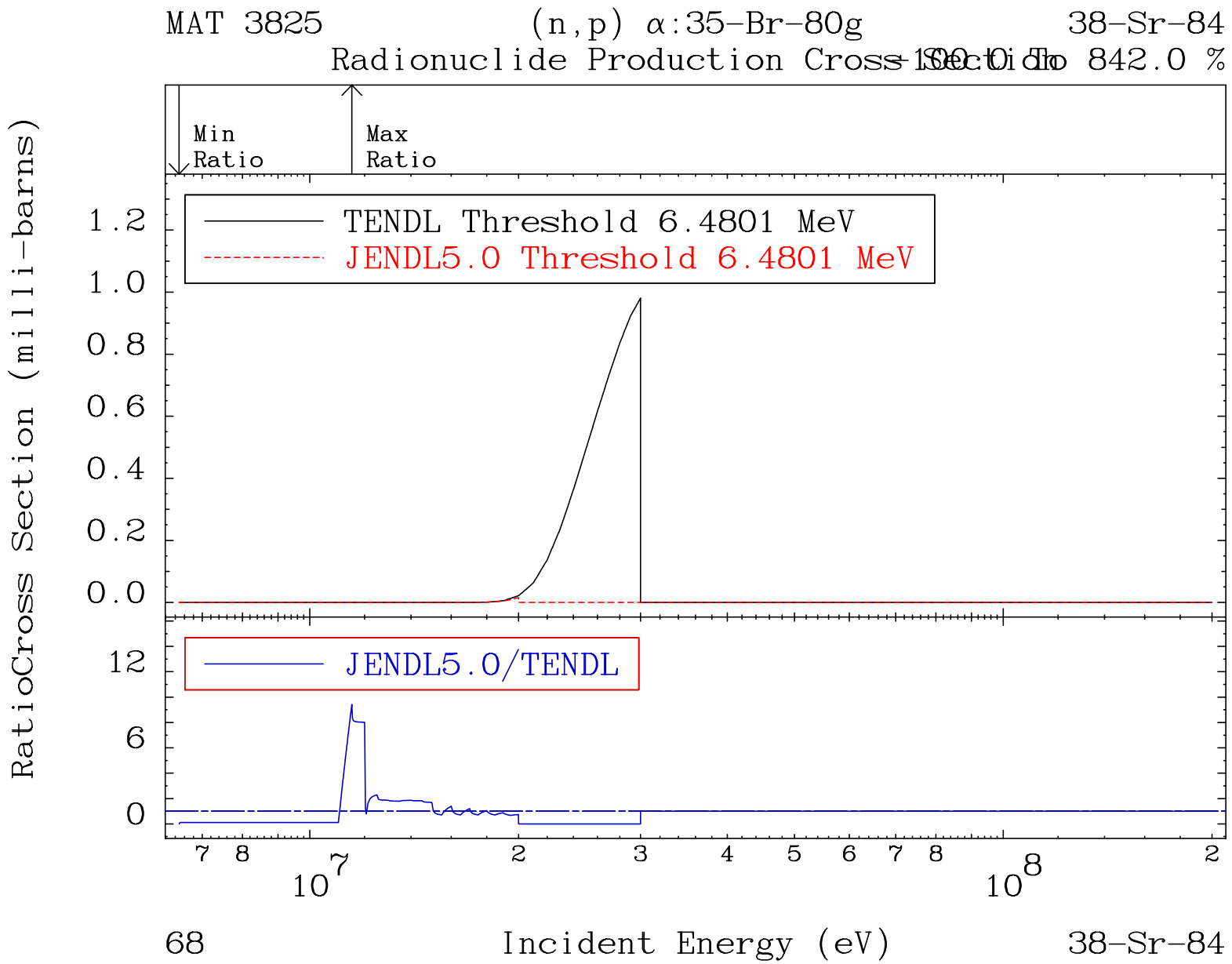

MAT 3825
(n,p):37-Rb-84m2
38-Sr-84
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 900.00 keV
JENDL5.0 Threshold 578.72 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
63
38-Sr-84

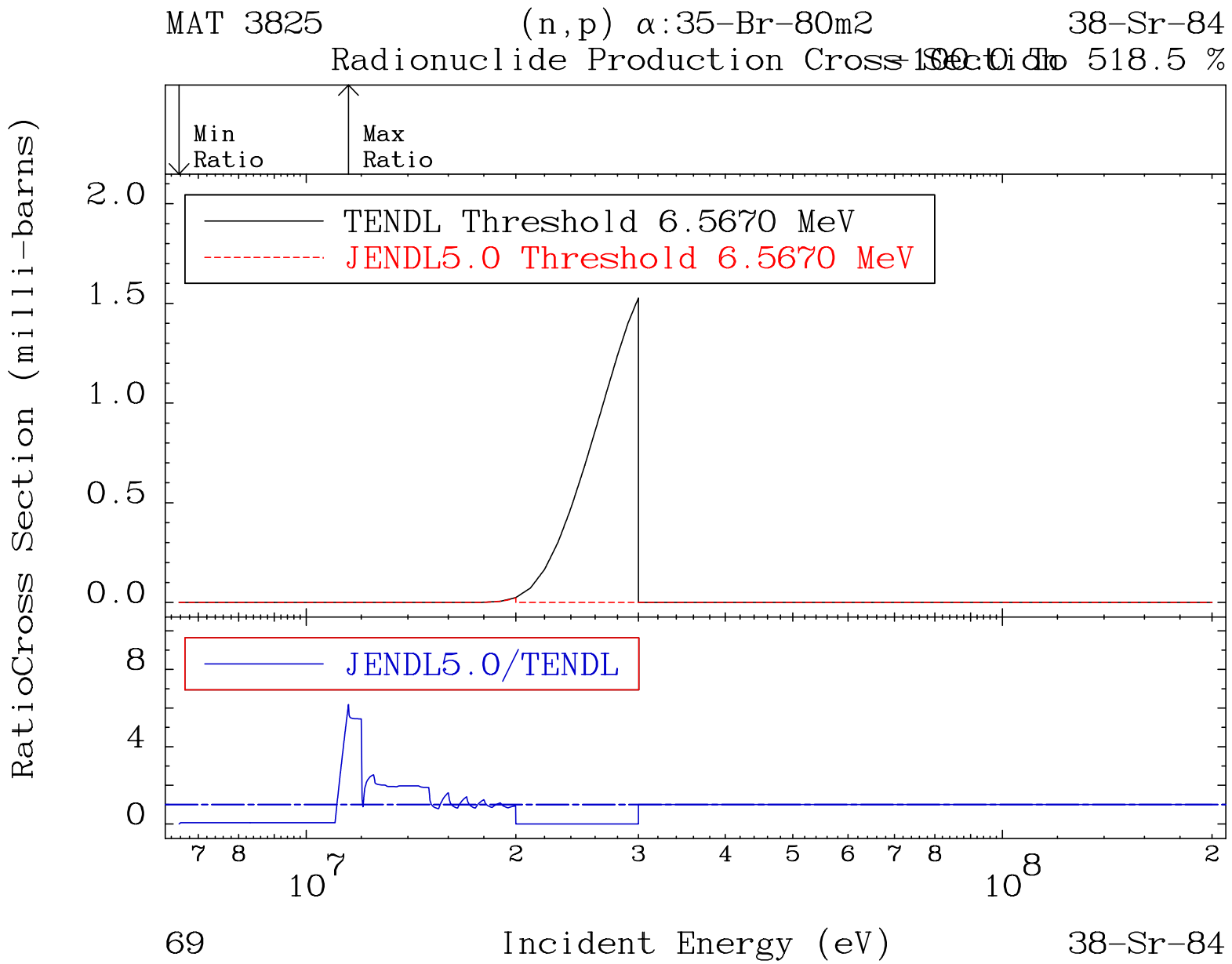

MAT 3825
(n,t):37-Rb-82g
38-Sr-84
Radionuclide Production Cross Section
100 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.477 MeV
JENDL5.0 Threshold 11.477 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.5
1.0
0.5
0.0
40
20
0
2
3
4
5
6
7
8
9
2
10^8
64
Incident Energy (eV)
38-Sr-84

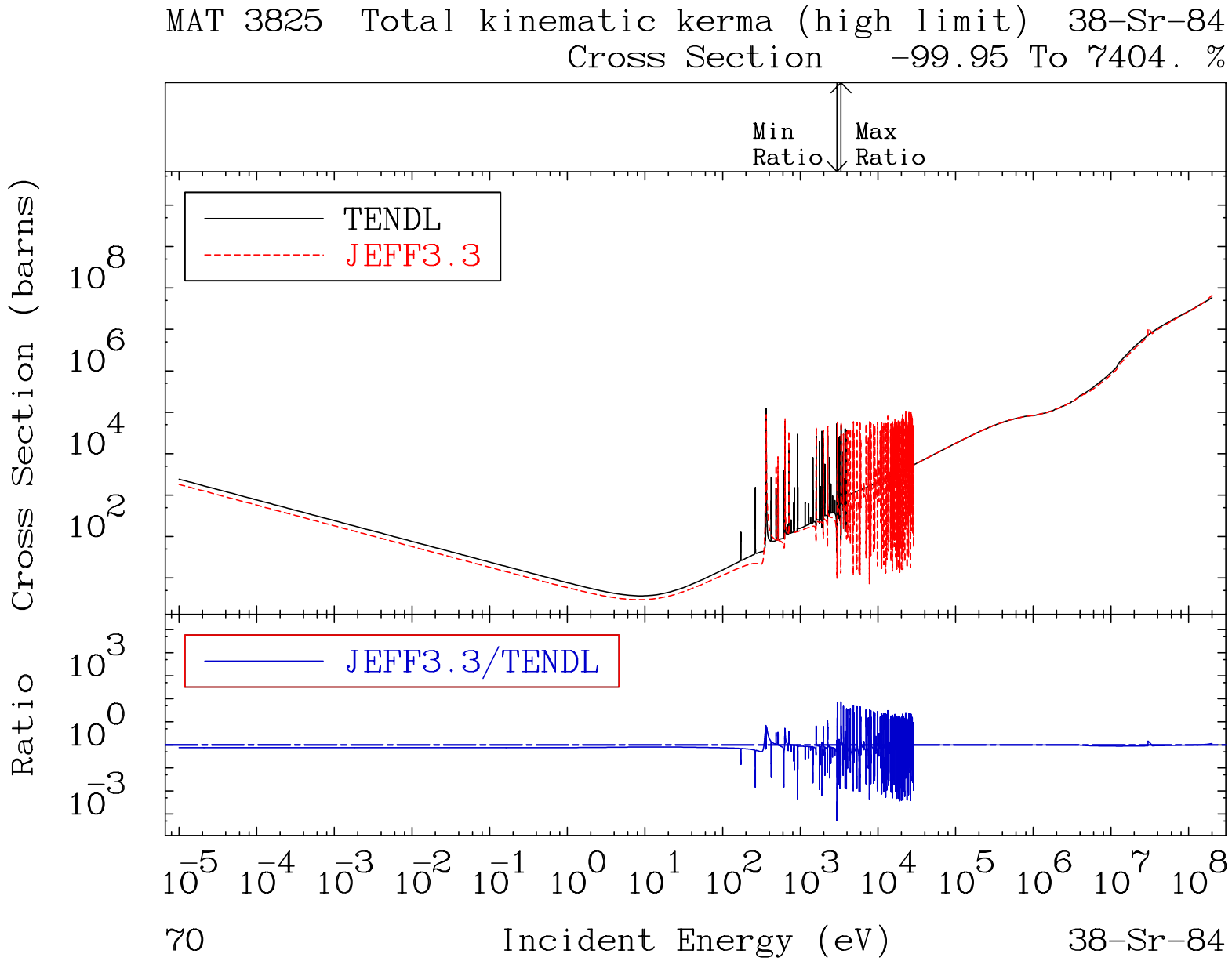

MAT 3825
(n,t):37-Rb-82m1
38-Sr-84
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JENDL5.0 Threshold 11.546 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
38-Sr-84

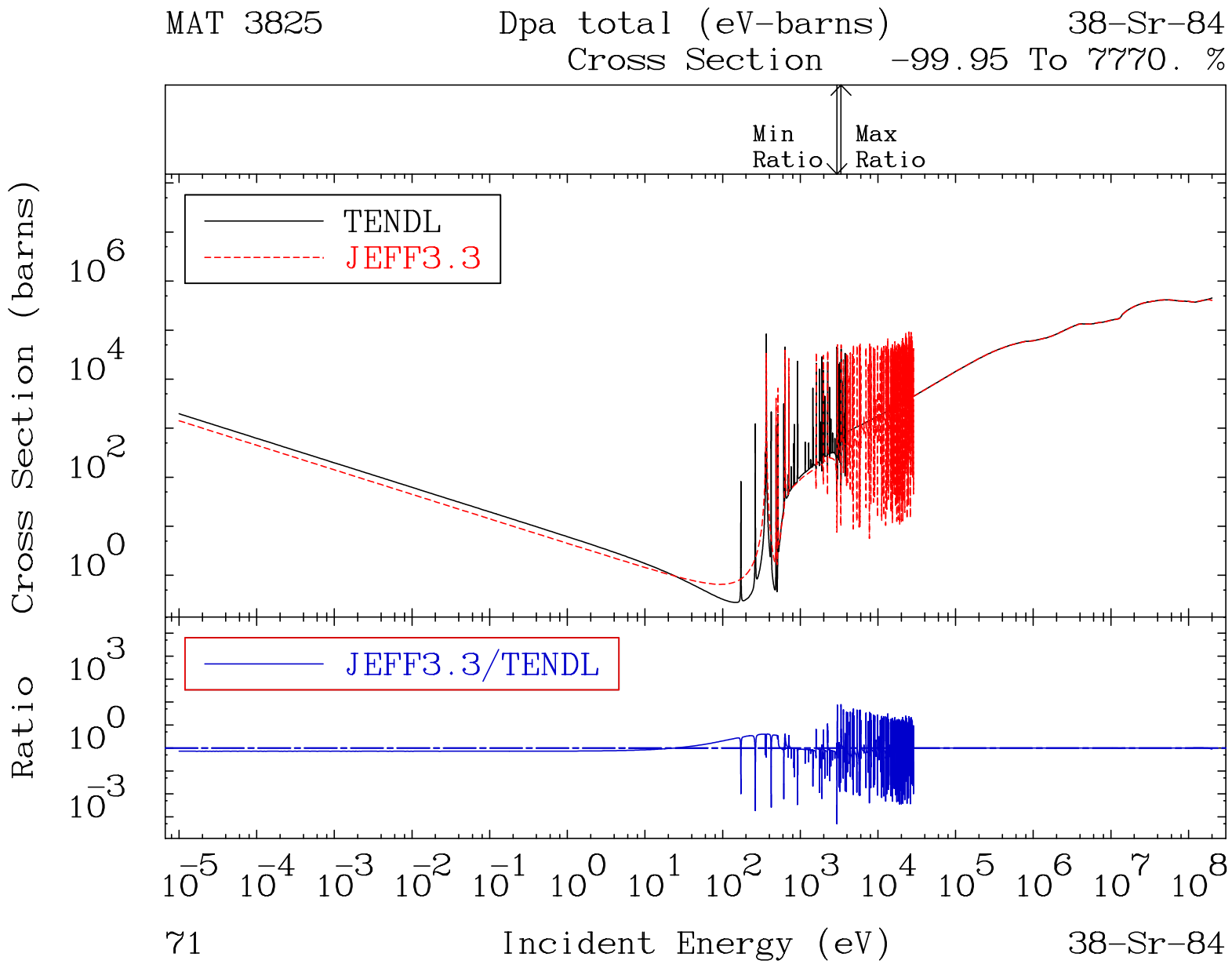

MAT 3825
(n,2p):36-Kr-83g
38-Sr-84
Radionuclide Production Cross Section To 1418. %
Max
Ratio
TENDL Threshold 7.2517 MeV
JENDL5.0 Threshold 7.2517 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
20
10
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
66
Incident Energy (eV)
38-Sr-84

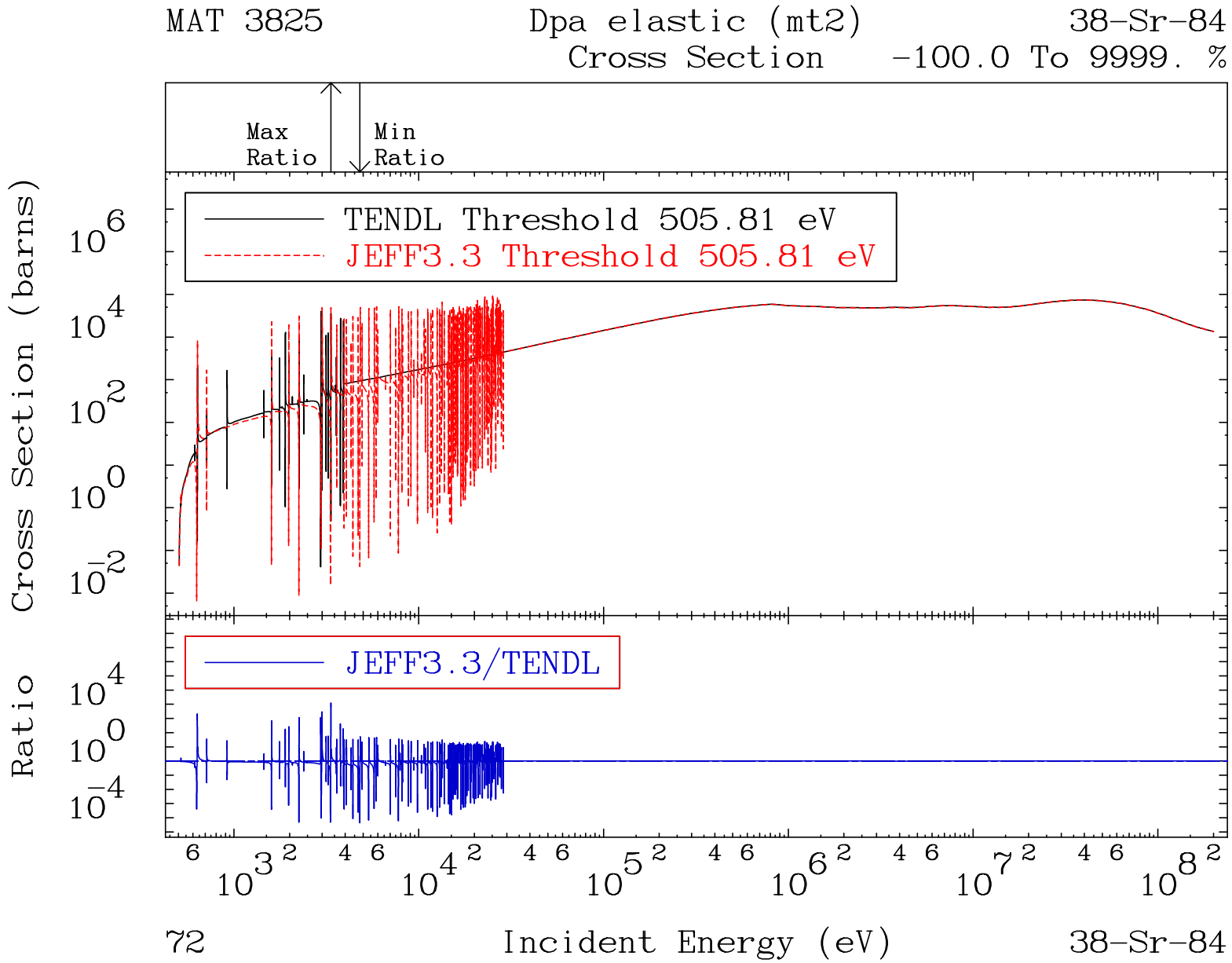

MAT 3825
(n,2p):36-Kr-83m2
38-Sr-84
Radionuclide Production Cross Section To 413.5 %
Max
Ratio
TENDL Threshold 7.2938 MeV
JENDL5.0 Threshold 7.2938 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
4
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
67
Incident Energy (eV)
38-Sr-84

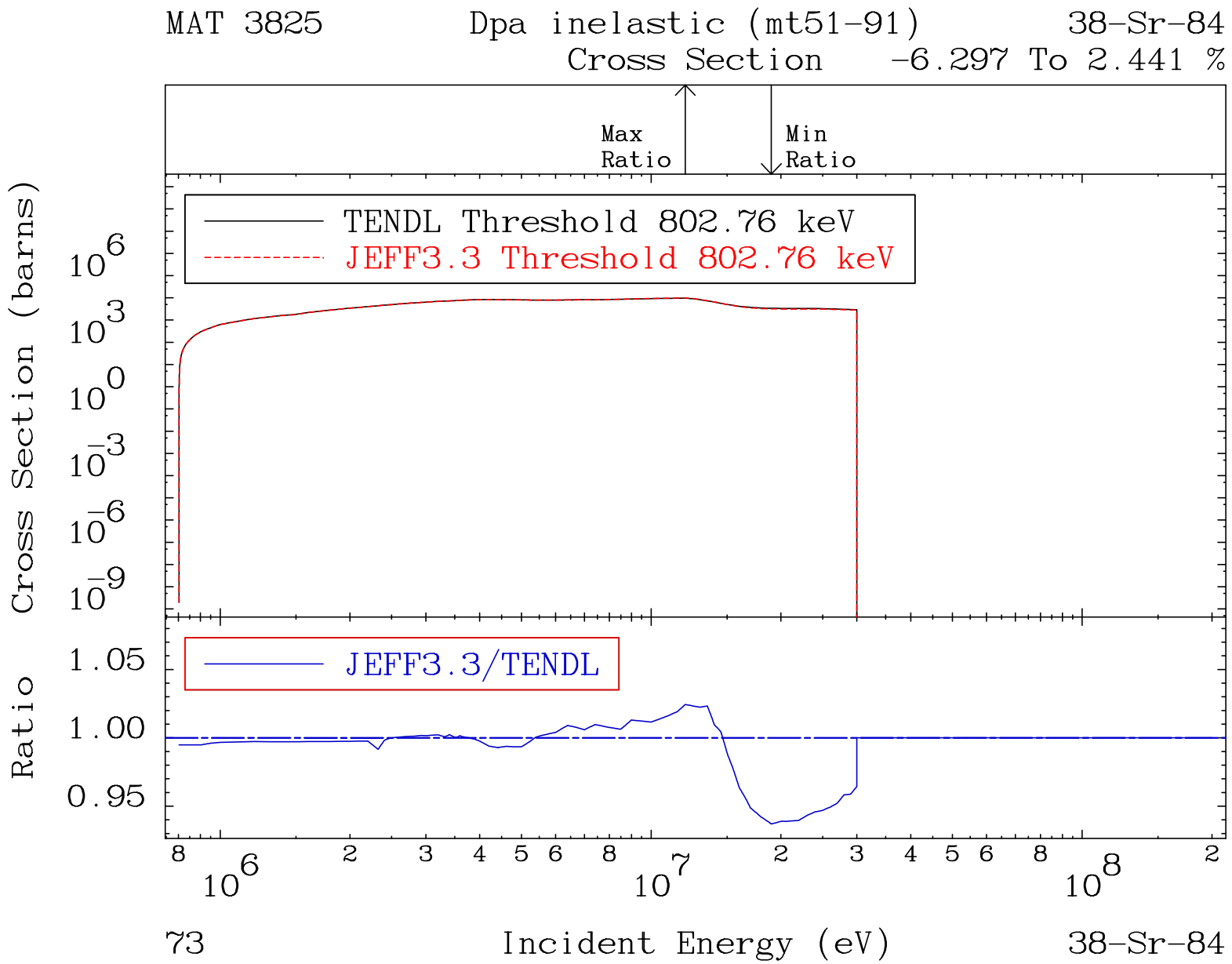

MAT 3825
(n,p) α:35-Br-80g
38-Sr-84
Radionuclide Production Cross Section To 842.0 %
Min Ratio
Max Ratio
TENDL Threshold 6.4801 MeV
JENDL5.0 Threshold 6.4801 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
68
Incident Energy (eV)
38-Sr-84

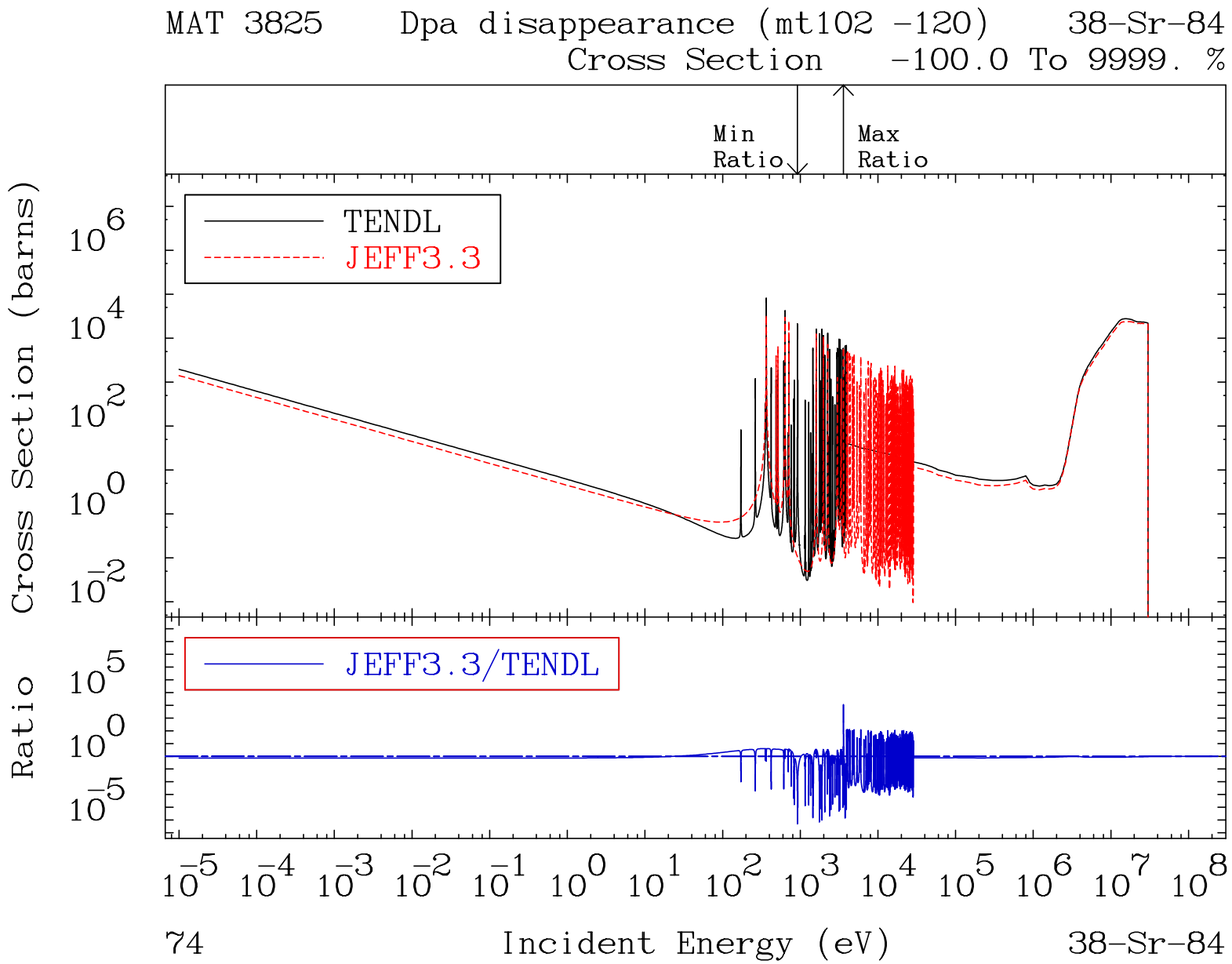

MAT 3825
(n,p) α:35-Br-80m2
38-Sr-84
Radionuclide Production Cross Section To
Min Ratio
Max Ratio
TENDL Threshold 6.5670 MeV
JENDL5.0 Threshold 6.5670 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
38-Sr-84

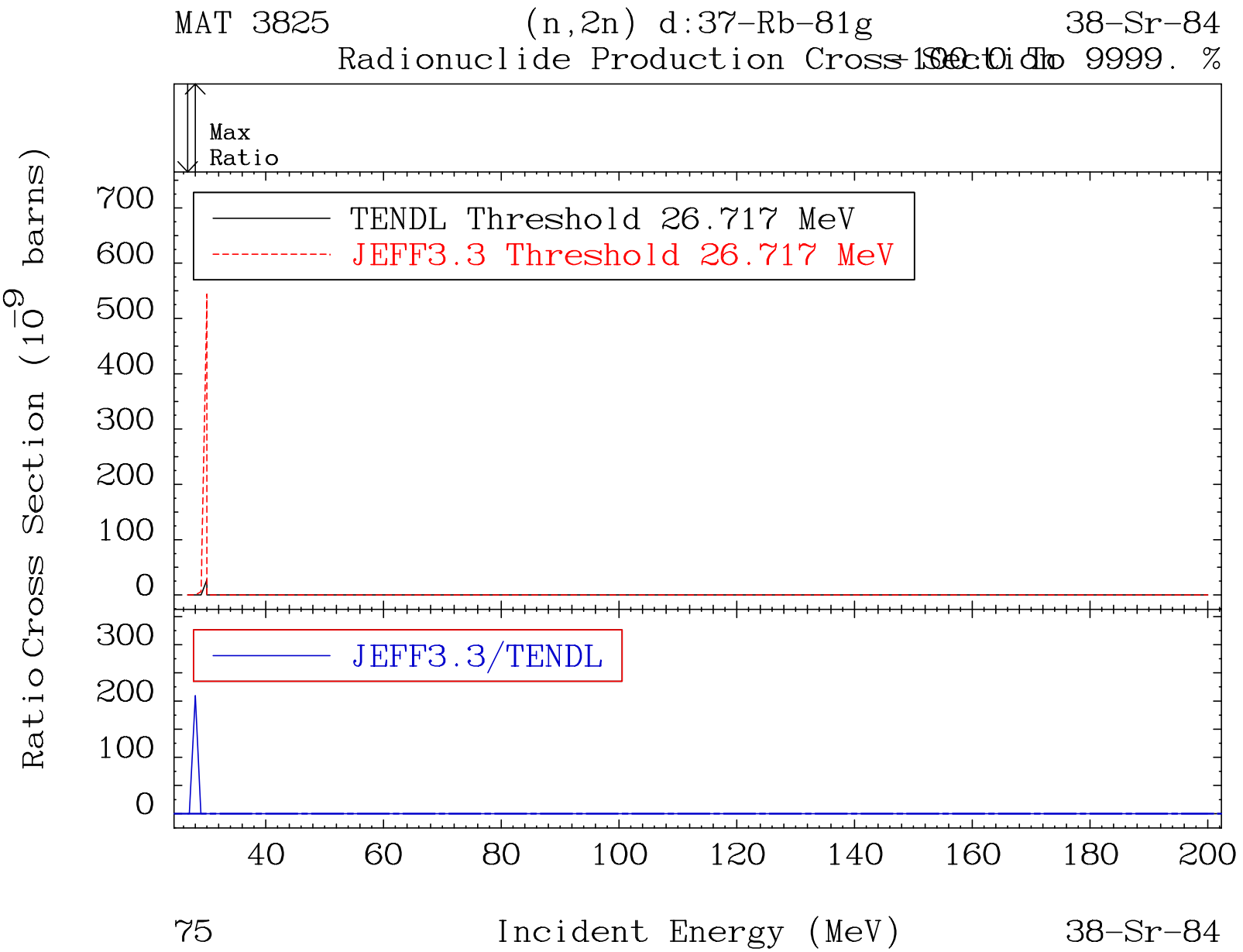

MAT 3825 Total kinematic kerma (high limit) 38-Sr-84
Cross Section -99.95 To 7404. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
38-Sr-84

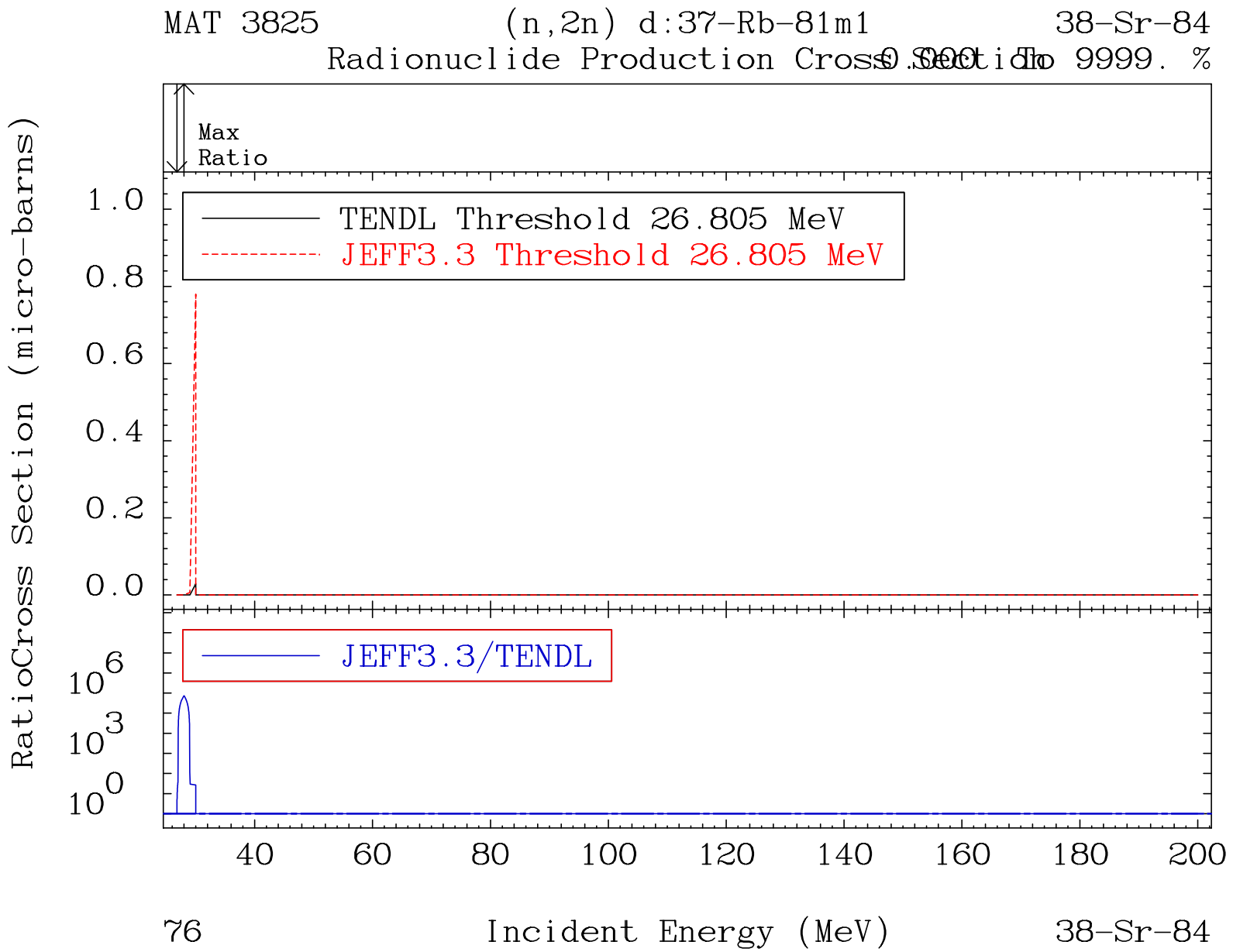

MAT 3825
Dpa total (eV-barns)
38-Sr-84
Cross Section -99.95 To 7770. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
38-Sr-84

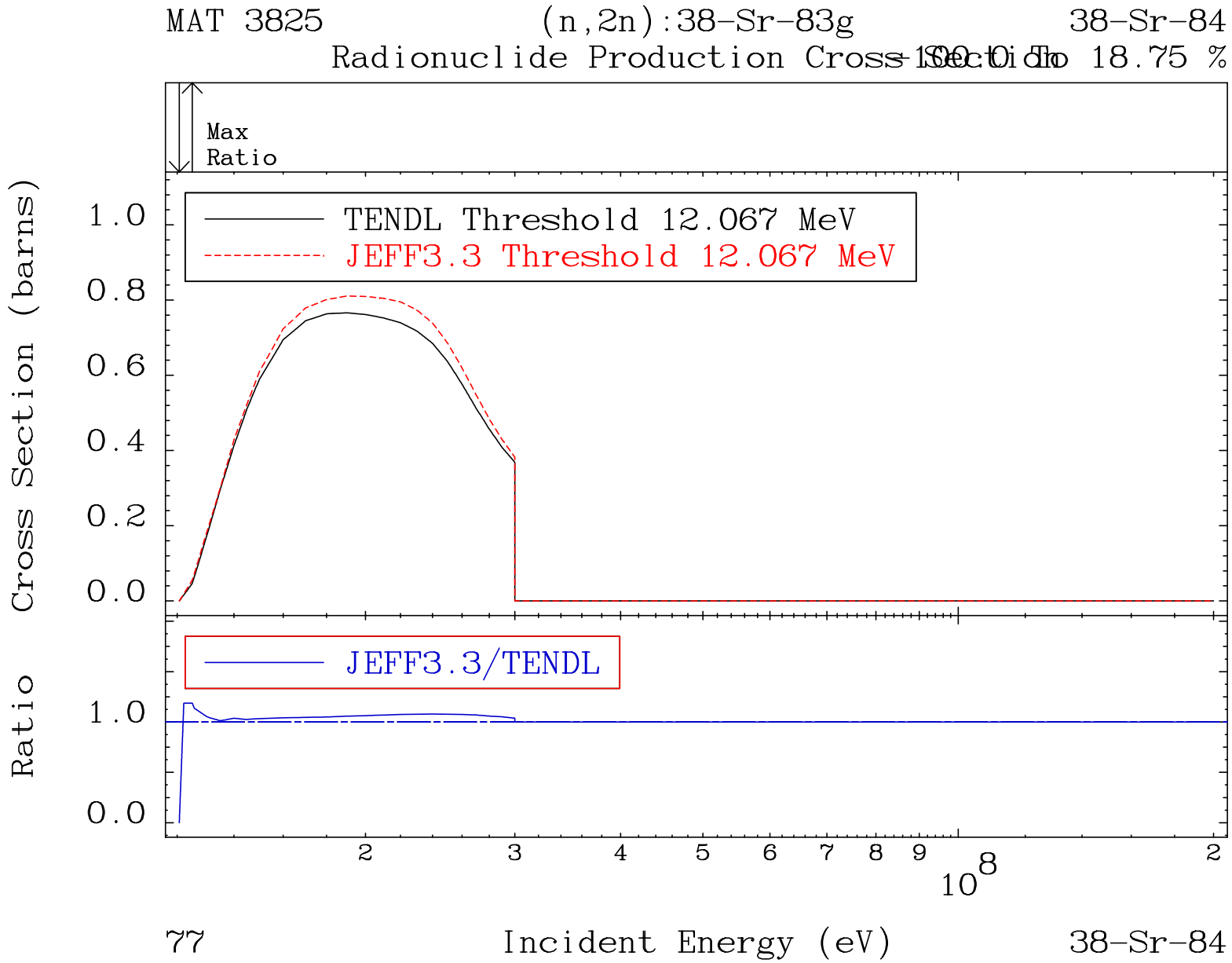

MAT 3825
Dpa elastic (mt2)
Cross Section
38-Sr-84
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 505.81 eV
JEFF3.3 Threshold 505.81 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
38-Sr-84

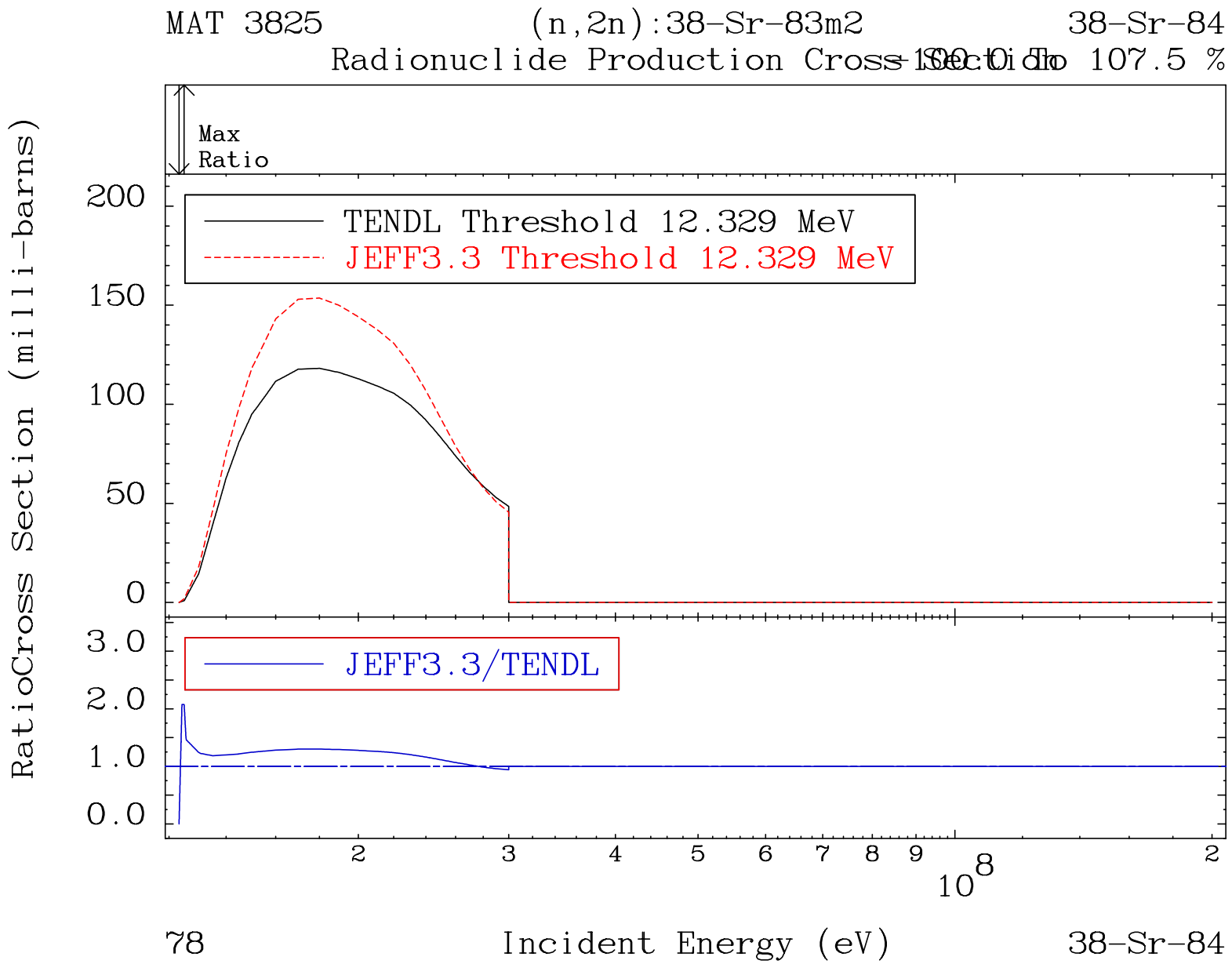

MAT 3825
Dpa inelastic (mt51-91)
38-Sr-84
Cross Section -6.297 To 2.441 %
Max Ratio
Min Ratio
TENDL Threshold 802.76 keV
JEFF3.3 Threshold 802.76 keV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
10^-9
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
73
Incident Energy (eV)
38-Sr-84

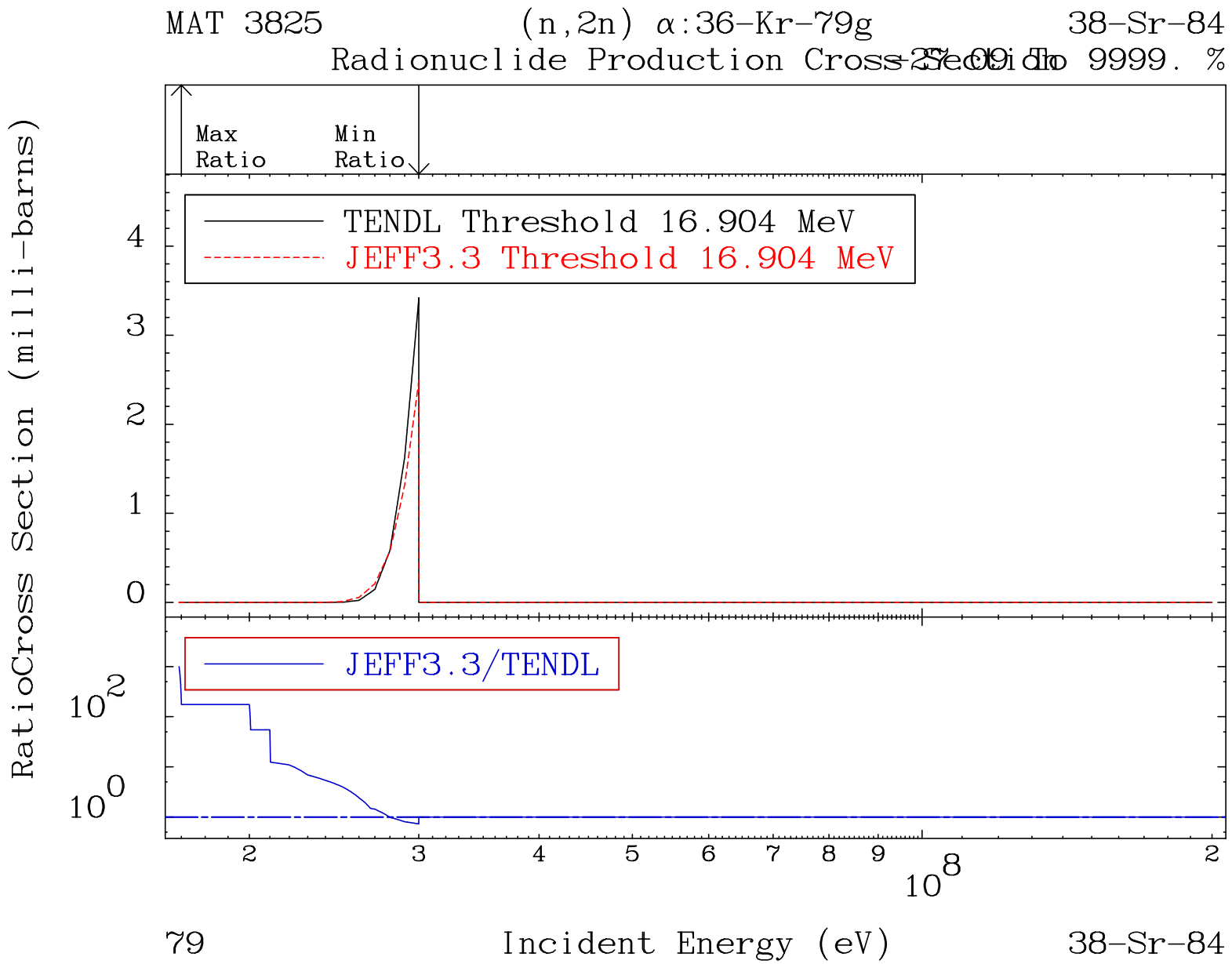

MAT 3825 Dpa disappearance (mt102 -120) 38-Sr-84
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
38-Sr-84

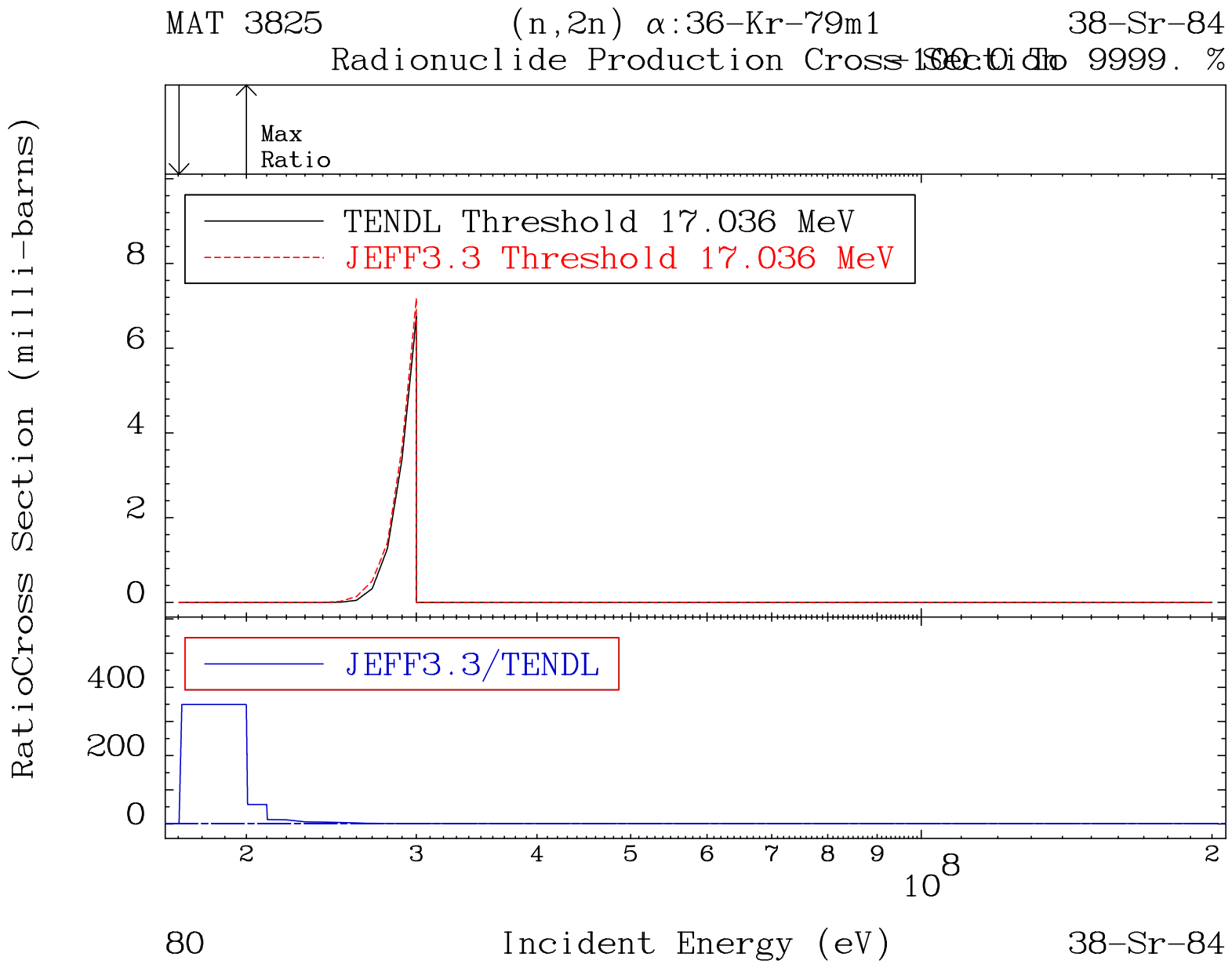

MAT 3825
(n,2n) d:37-Rb-81g
38-Sr-84
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 26.717 MeV
JEFF3.3 Threshold 26.717 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
700
600
500
400
300
200
100
0
300
200
100
0
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
38-Sr-84

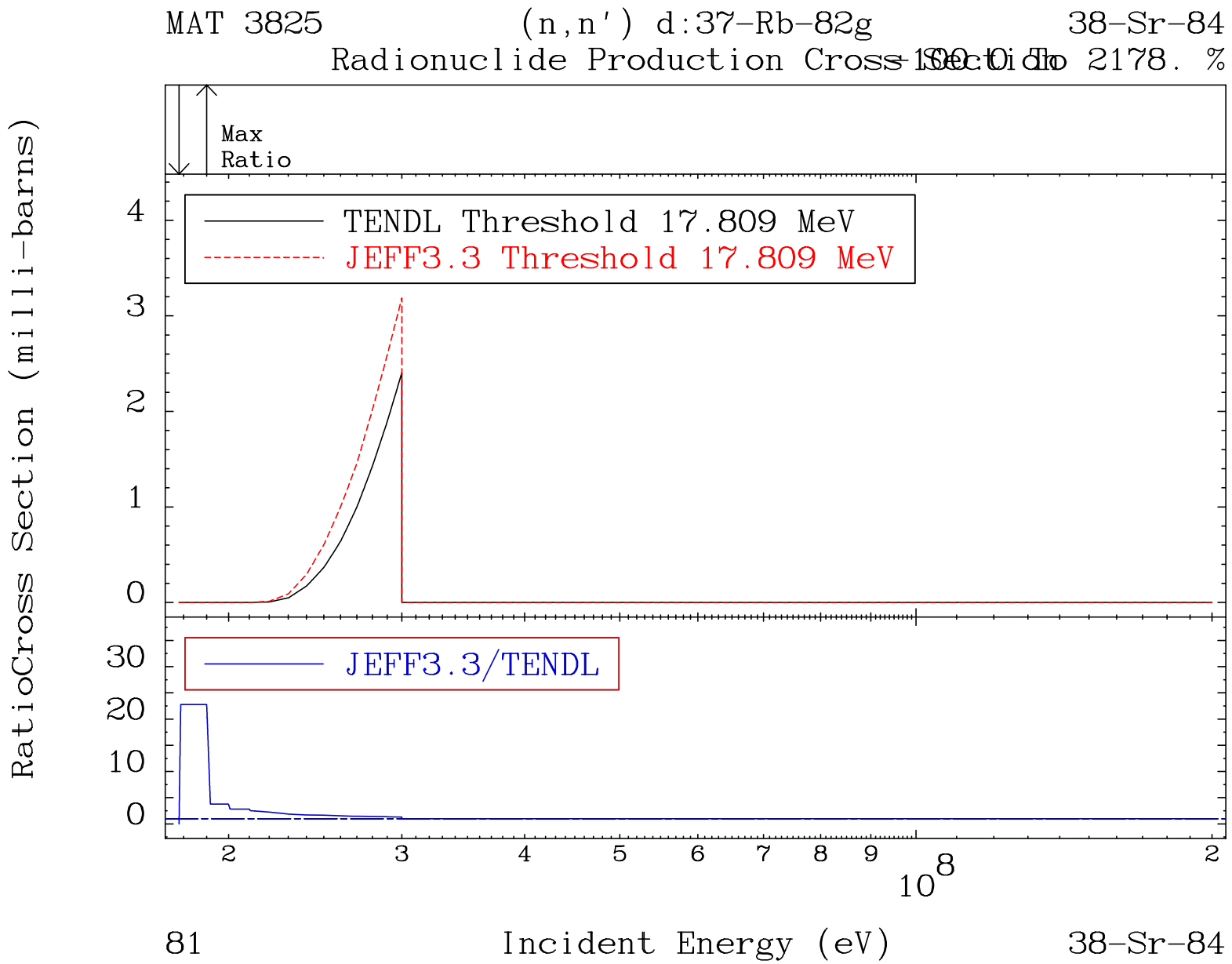

MAT 3825
(n,2n) d:37-Rb-81m1
38-Sr-84
Radionuclide Production Cross Section
0.000 To 9999. %
Max
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
TENDL Threshold 26.805 MeV
JEFF3.3 Threshold 26.805 MeV
JEFF3.3/TENDL
10^6
10^3
10^0
40
60
80
100
120
140
160
180
200
RatioCross Section (micro-barns)
76
Incident Energy (MeV)
38-Sr-84

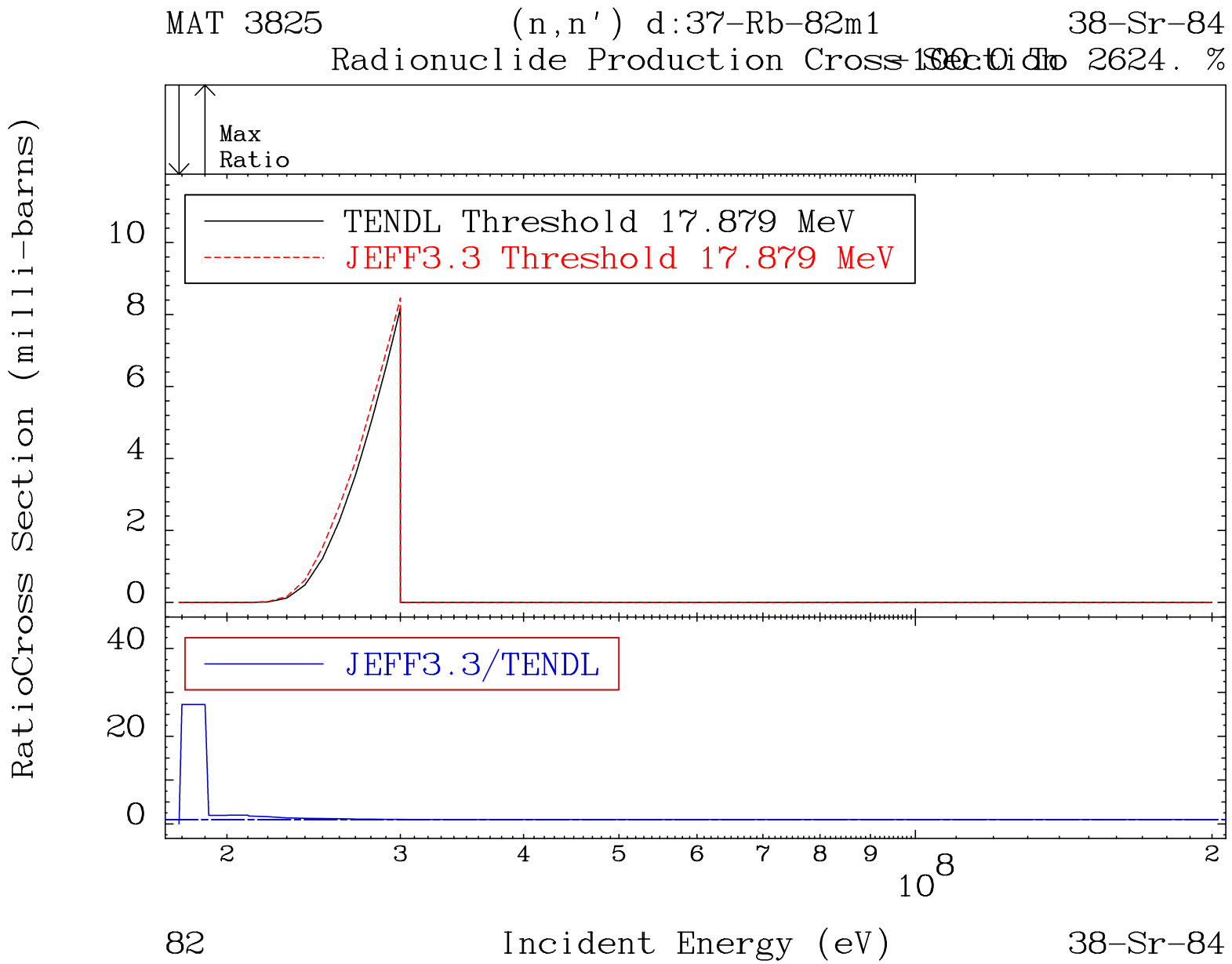

MAT 3825
(n,2n):38-Sr-83g
38-Sr-84
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 12.067 MeV
JEFF3.3 Threshold 12.067 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
77
Incident Energy (eV)
38-Sr-84

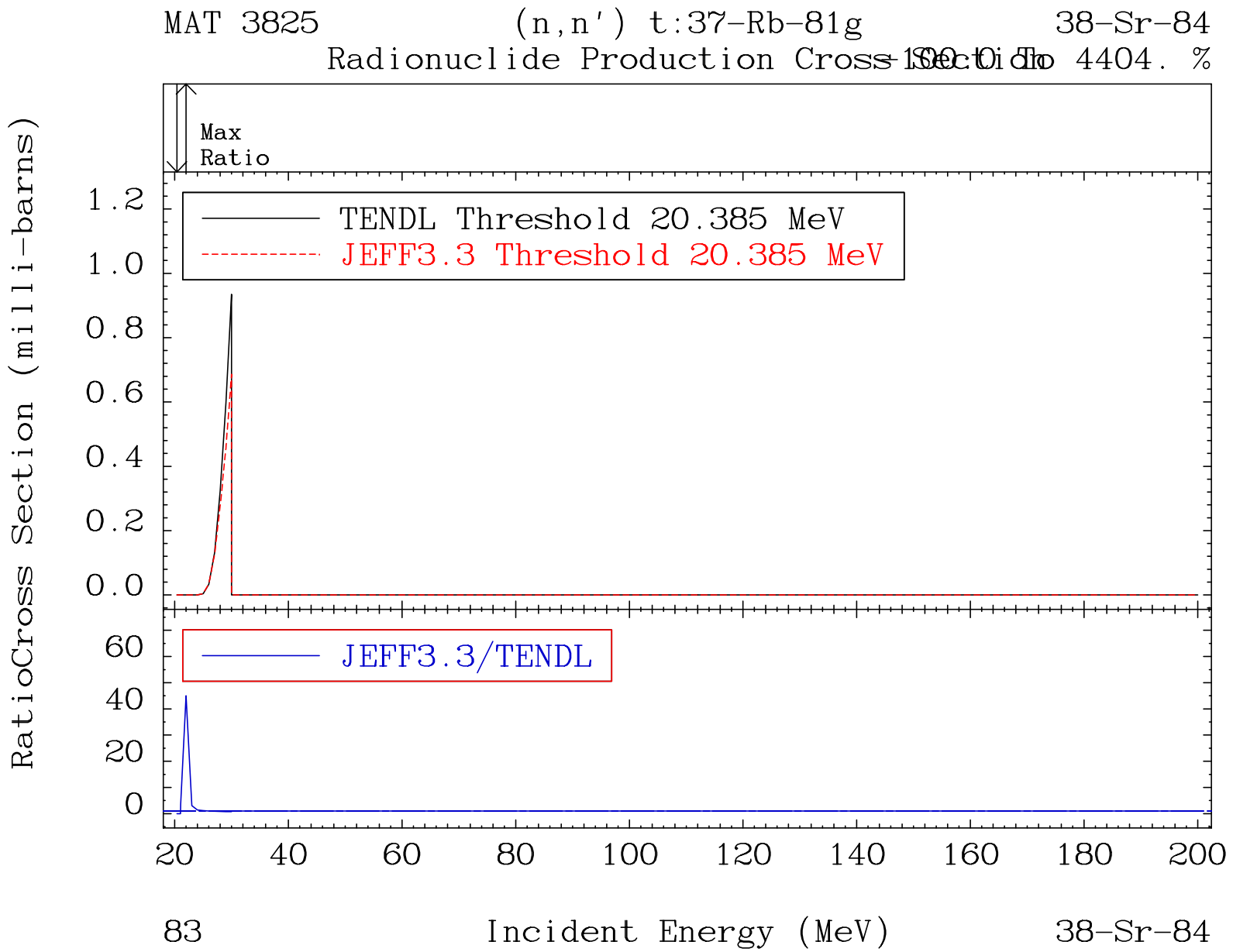

MAT 3825
(n,2n):38-Sr-83m2
38-Sr-84
Radionuclide Production Cross Section To 107.5 %
Max
Ratio
TENDL Threshold 12.329 MeV
JEFF3.3 Threshold 12.329 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
38-Sr-84

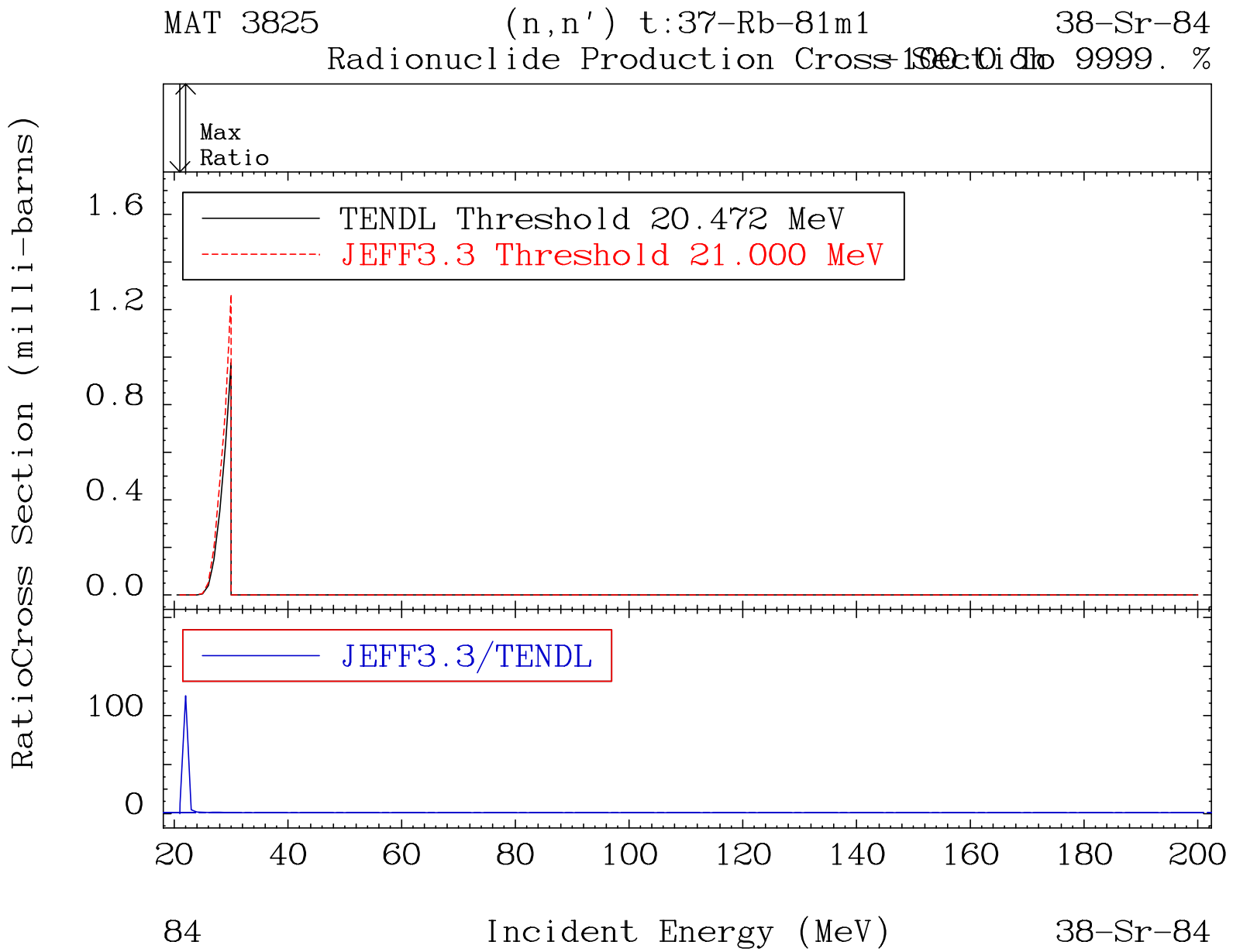

MAT 3825
(n,2n) α:36-Kr-79g
38-Sr-84
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 16.904 MeV
JEFF3.3 Threshold 16.904 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
79
38-Sr-84

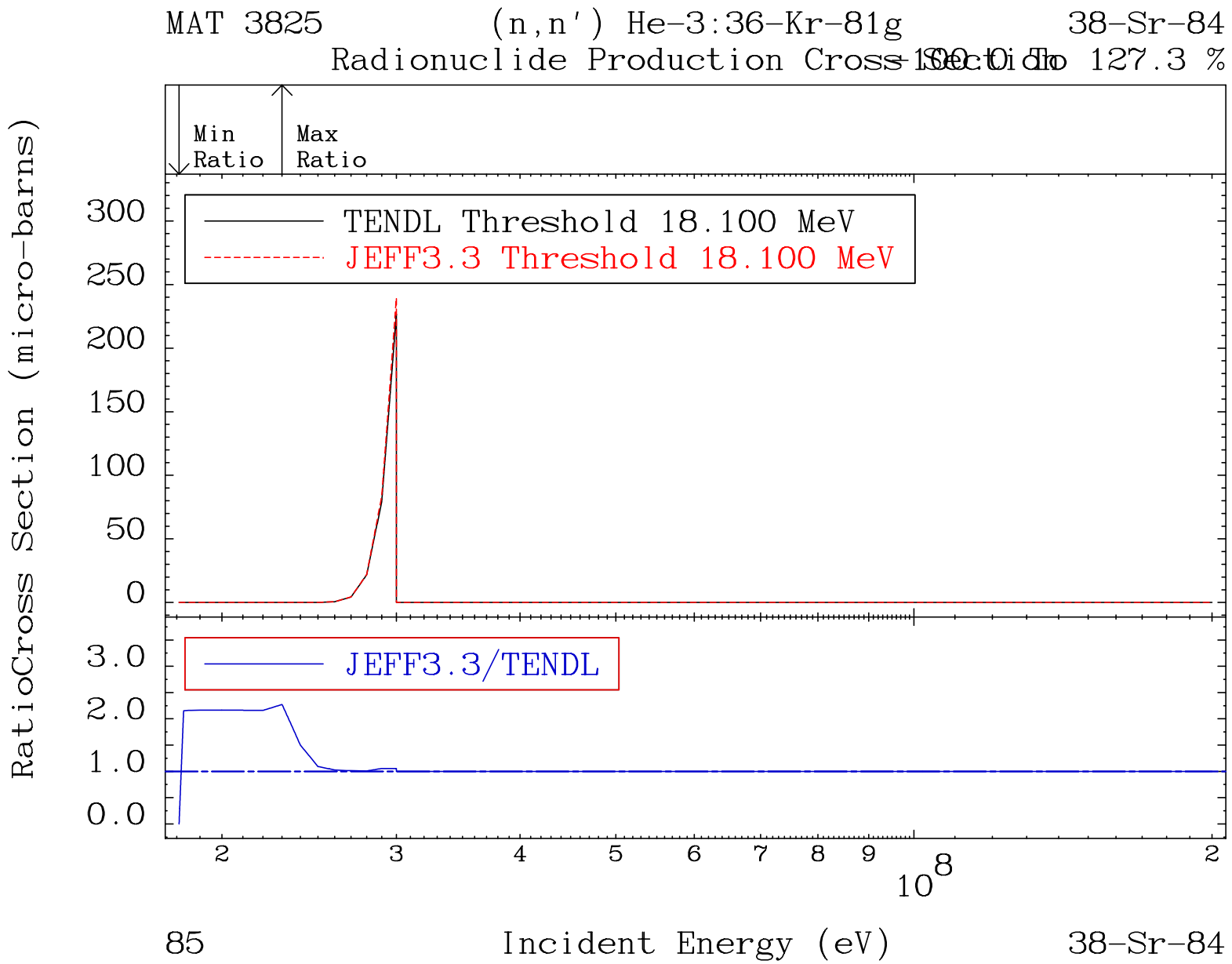

MAT 3825
(n,2n) α:36-Kr-79m1
38-Sr-84
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 17.036 MeV
JEFF3.3 Threshold 17.036 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80
38-Sr-84

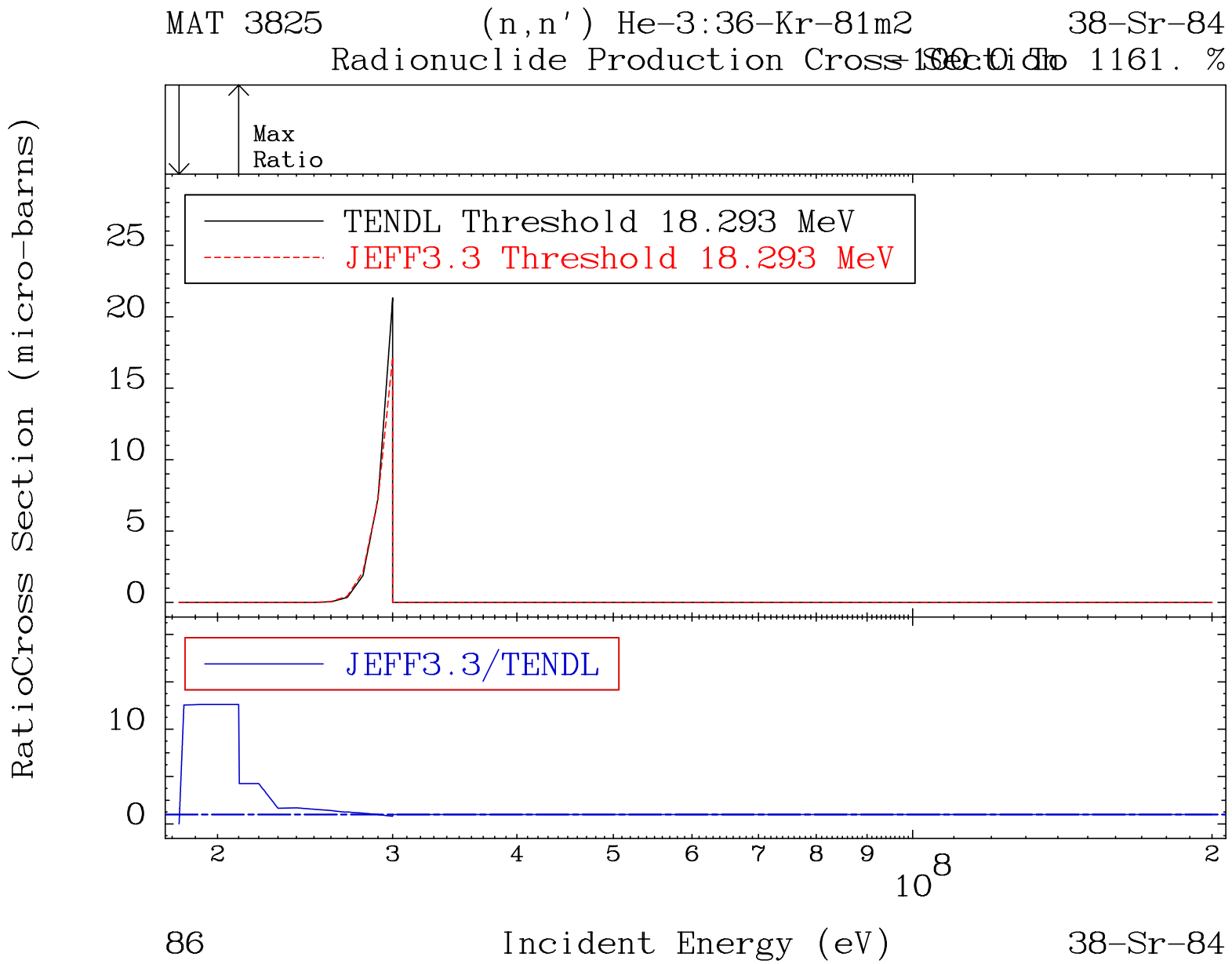

MAT 3825
(n,n') d:37-Rb-82g
38-Sr-84
Radionuclide Production Cross Section To 2178. %
Max
Ratio
TENDL Threshold 17.809 MeV
JEFF3.3 Threshold 17.809 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
38-Sr-84

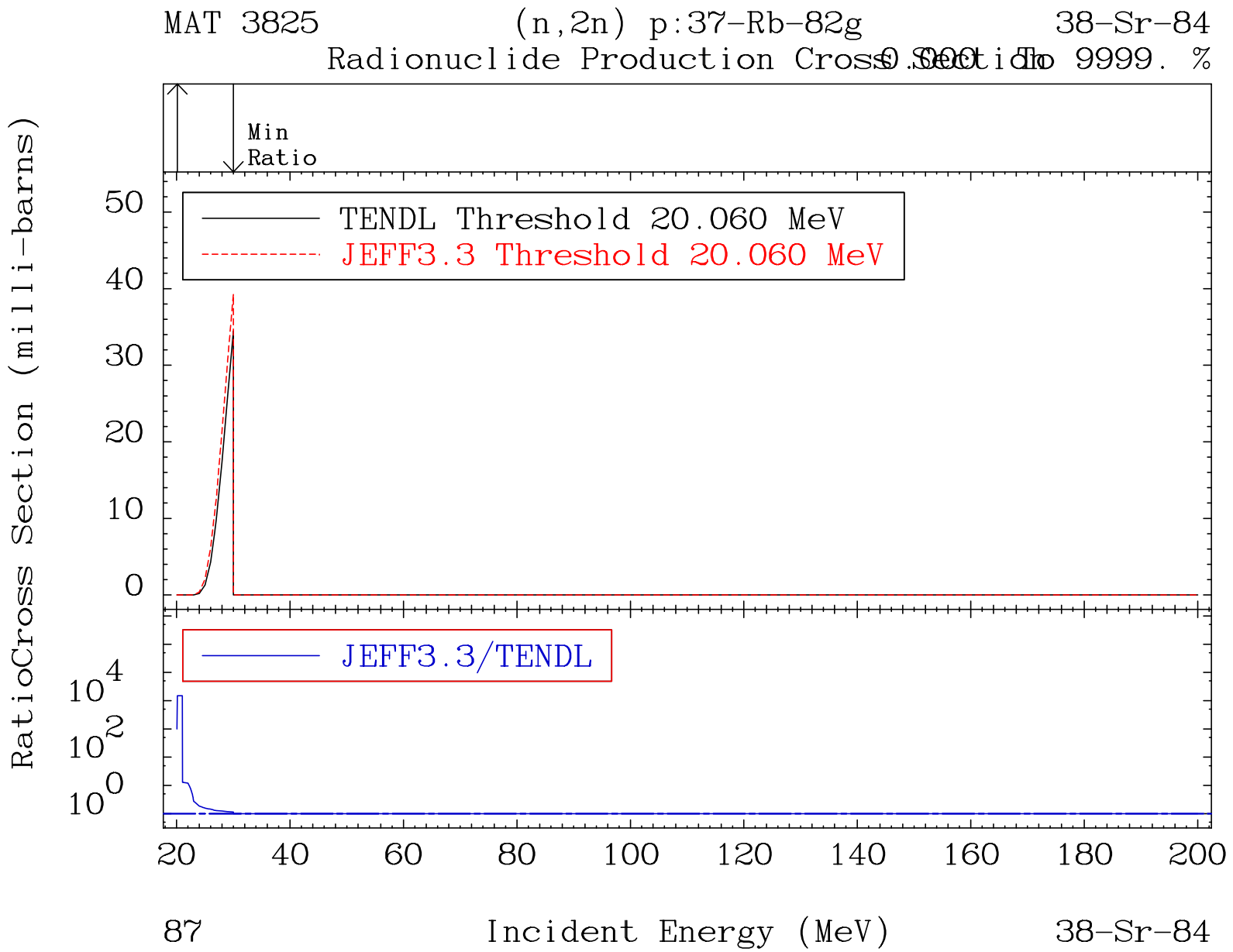

MAT 3825
(n,n') d:37-Rb-82m1
38-Sr-84
Radionuclide Production Cross Section To 2624. %
Max
Ratio
TENDL Threshold 17.879 MeV
JEFF3.3 Threshold 17.879 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
40
20
0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
38-Sr-84

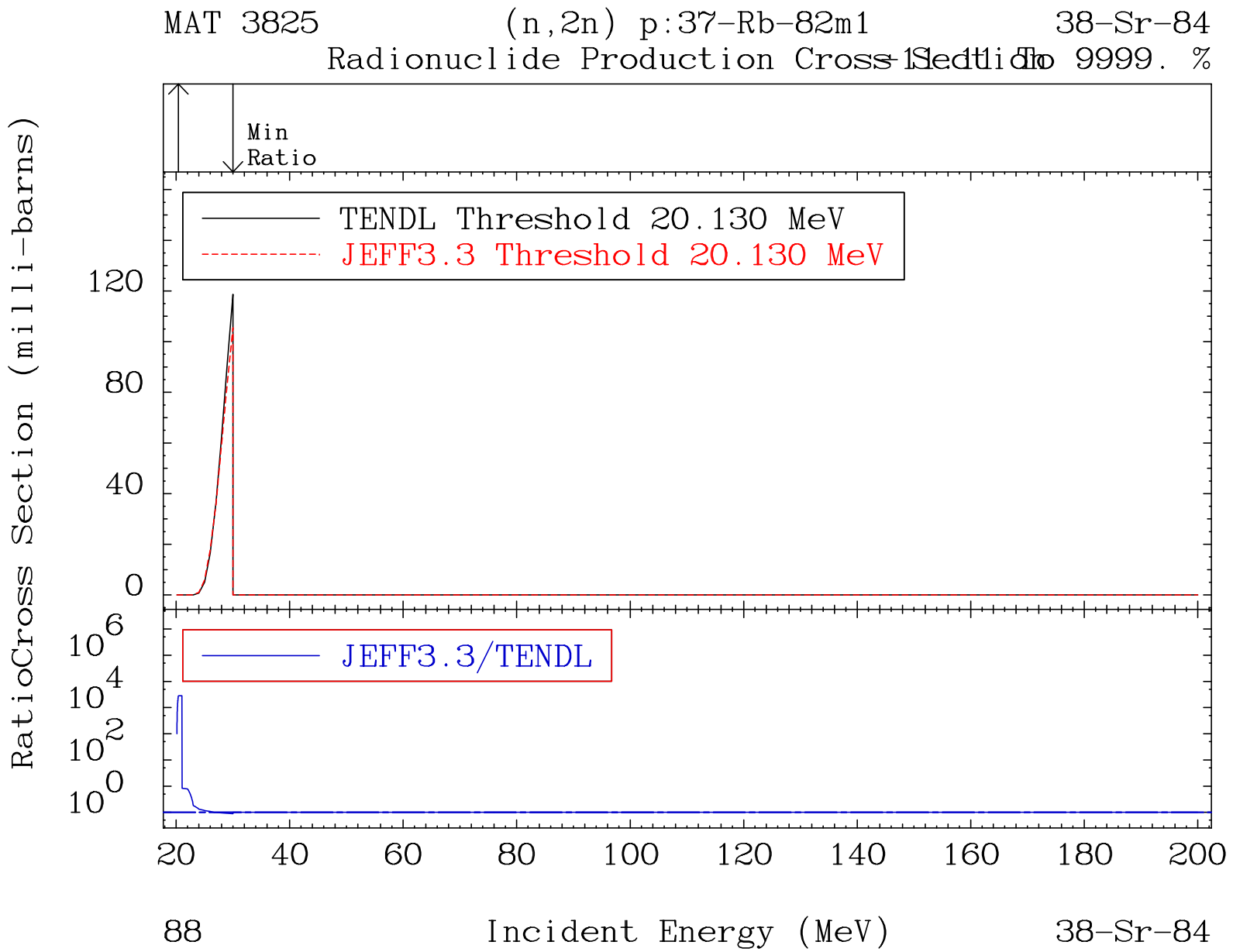

MAT 3825
(n,n') t:37-Rb-81g
38-Sr-84
Radionuclide Production Cross Section To 4404. %
Max
Ratio
TENDL Threshold 20.385 MeV
JEFF3.3 Threshold 20.385 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
60
40
20
0
20
40
60
80
100
120
140
160
180
200
83
Incident Energy (MeV)
38-Sr-84

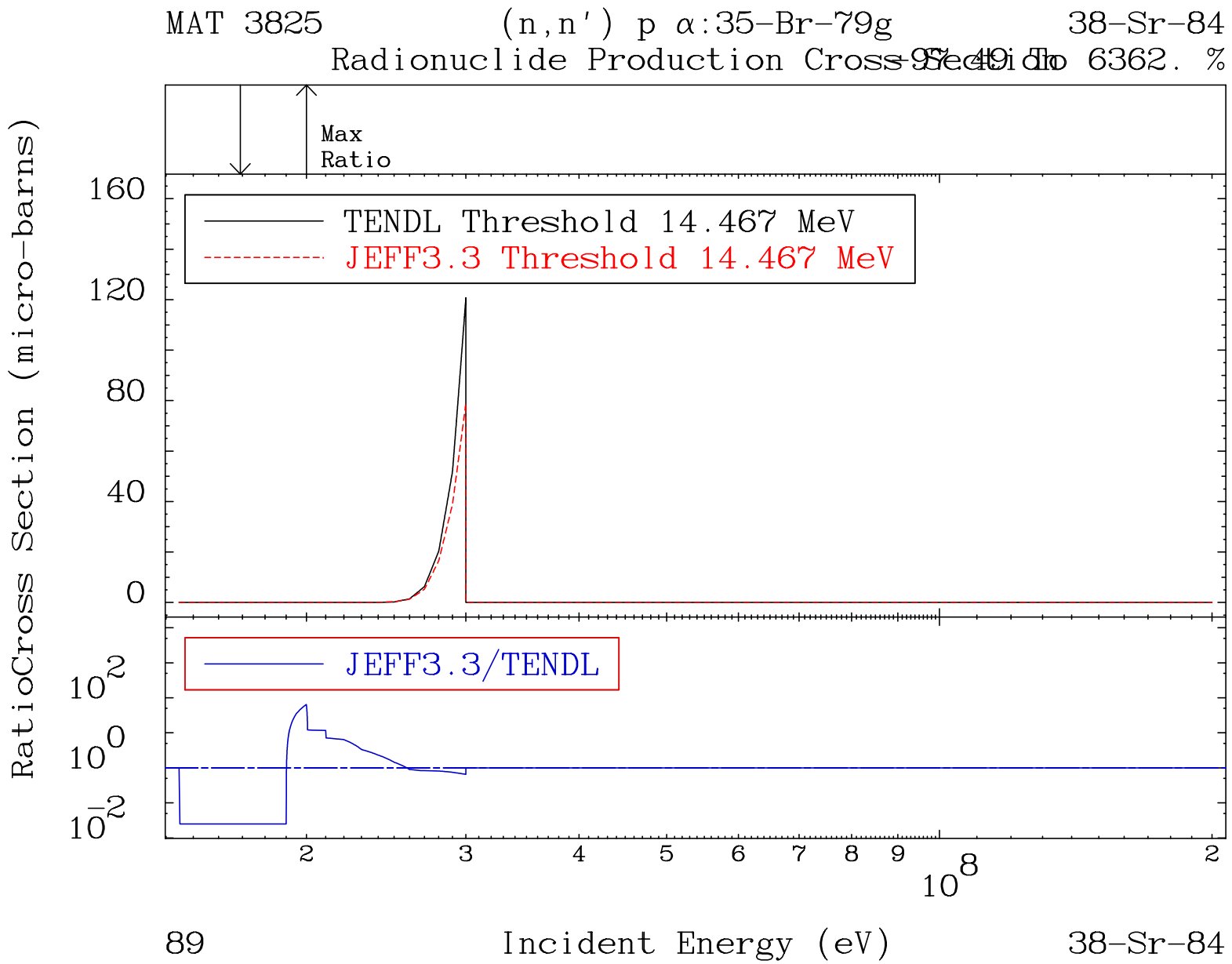

MAT 3825 (n,n') t:37-Rb-81m1 38-Sr-84
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 20.472 MeV
JEFF3.3 Threshold 21.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
100
0
20
40
60
80
100
120
140
160
180
200
84
Incident Energy (MeV)
38-Sr-84

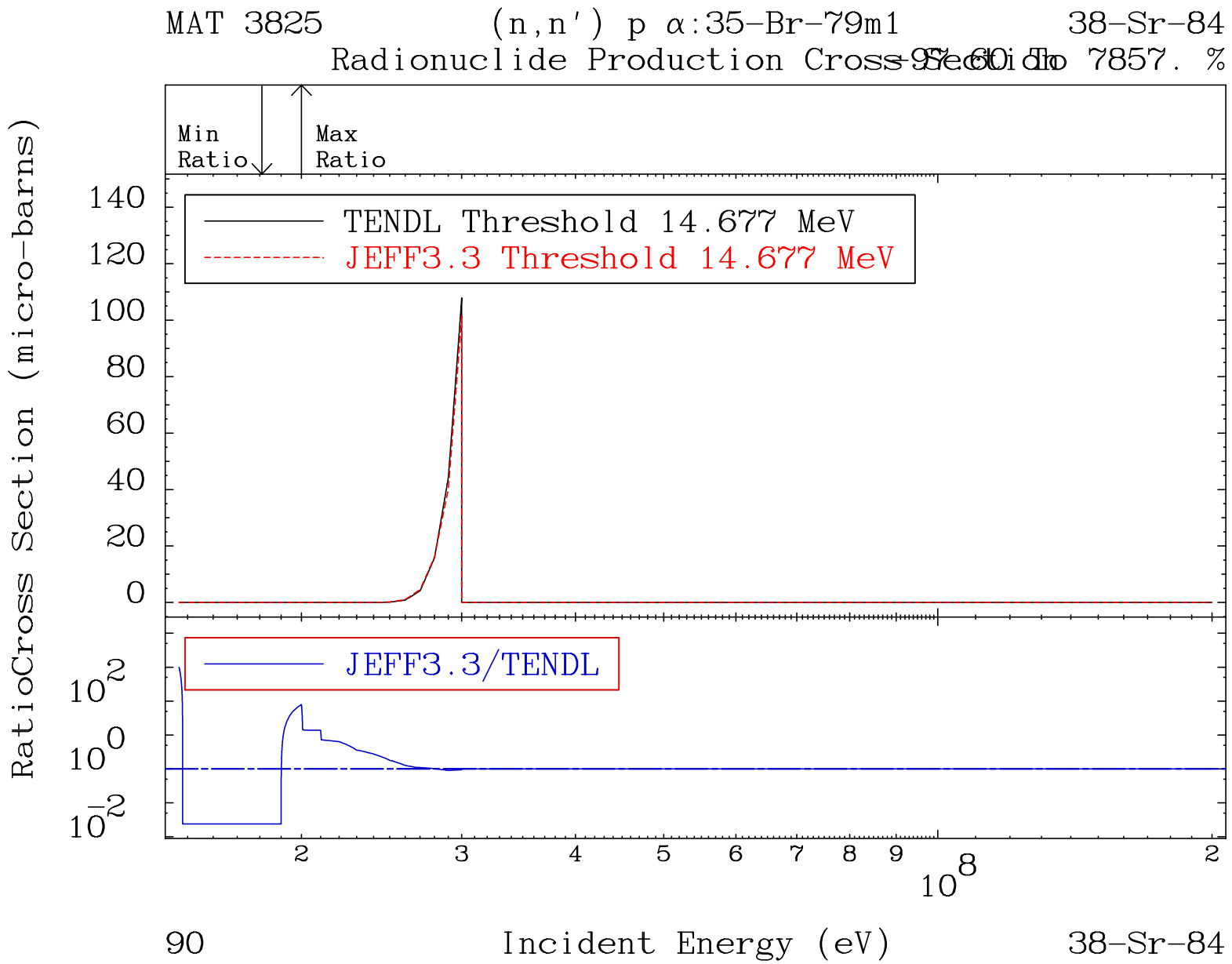

MAT 3825
(n,n') He-3:36-Kr-81g
38-Sr-84
Radionuclide Production Cross Section To 127.3 %
Min Ratio
Max Ratio
TENDL Threshold 18.100 MeV
JEFF3.3 Threshold 18.100 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
300
250
200
150
100
50
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
38-Sr-84

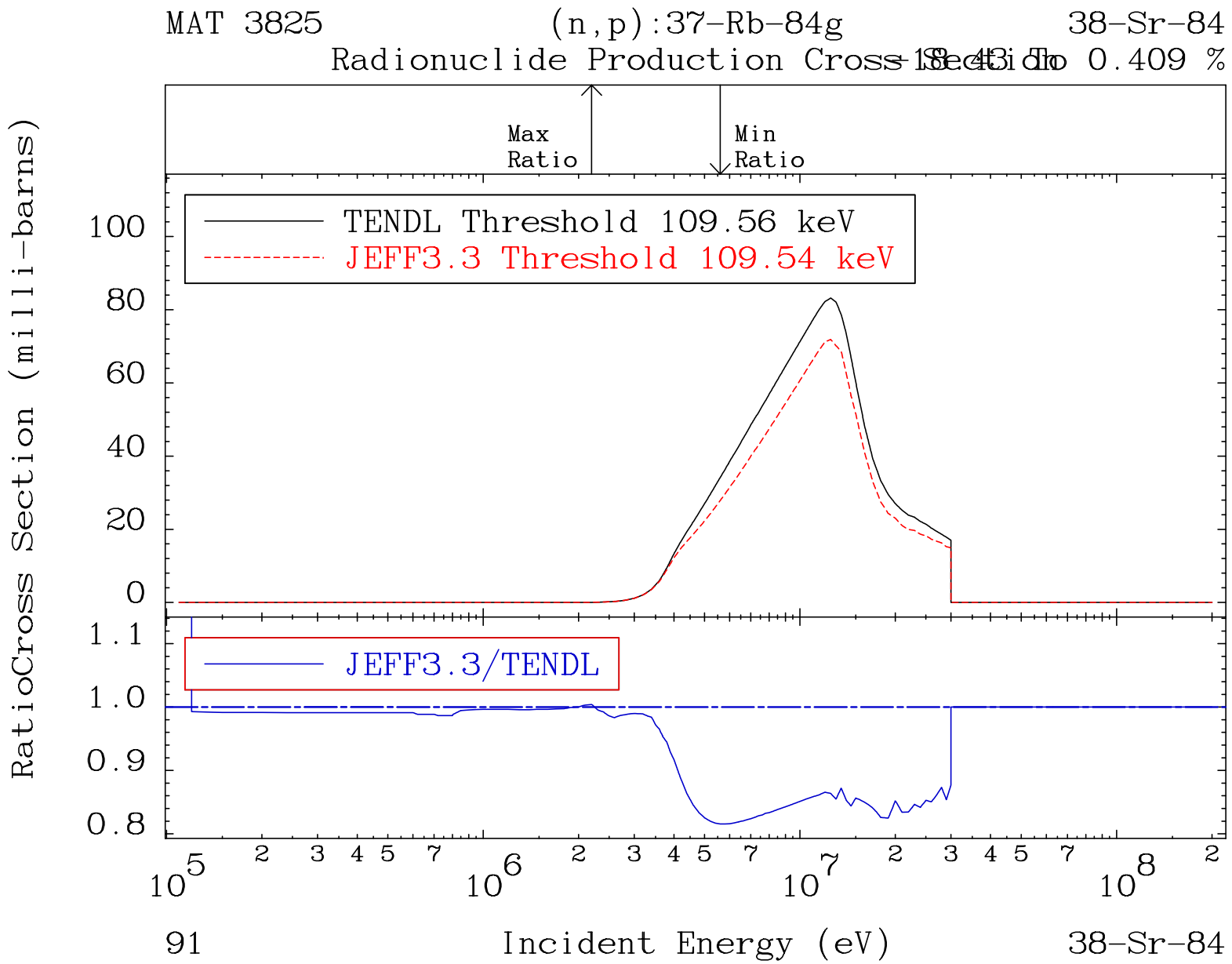

MAT 3825 (n,n') He-3:36-Kr-81m2 38-Sr-84
Radionuclide Production Cross Section To 1161. %
Max
Ratio
TENDL Threshold 18.293 MeV
JEFF3.3 Threshold 18.293 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
10
0
2
3
4
5
6
7
8
9
2
10^8
86
Incident Energy (eV)
38-Sr-84

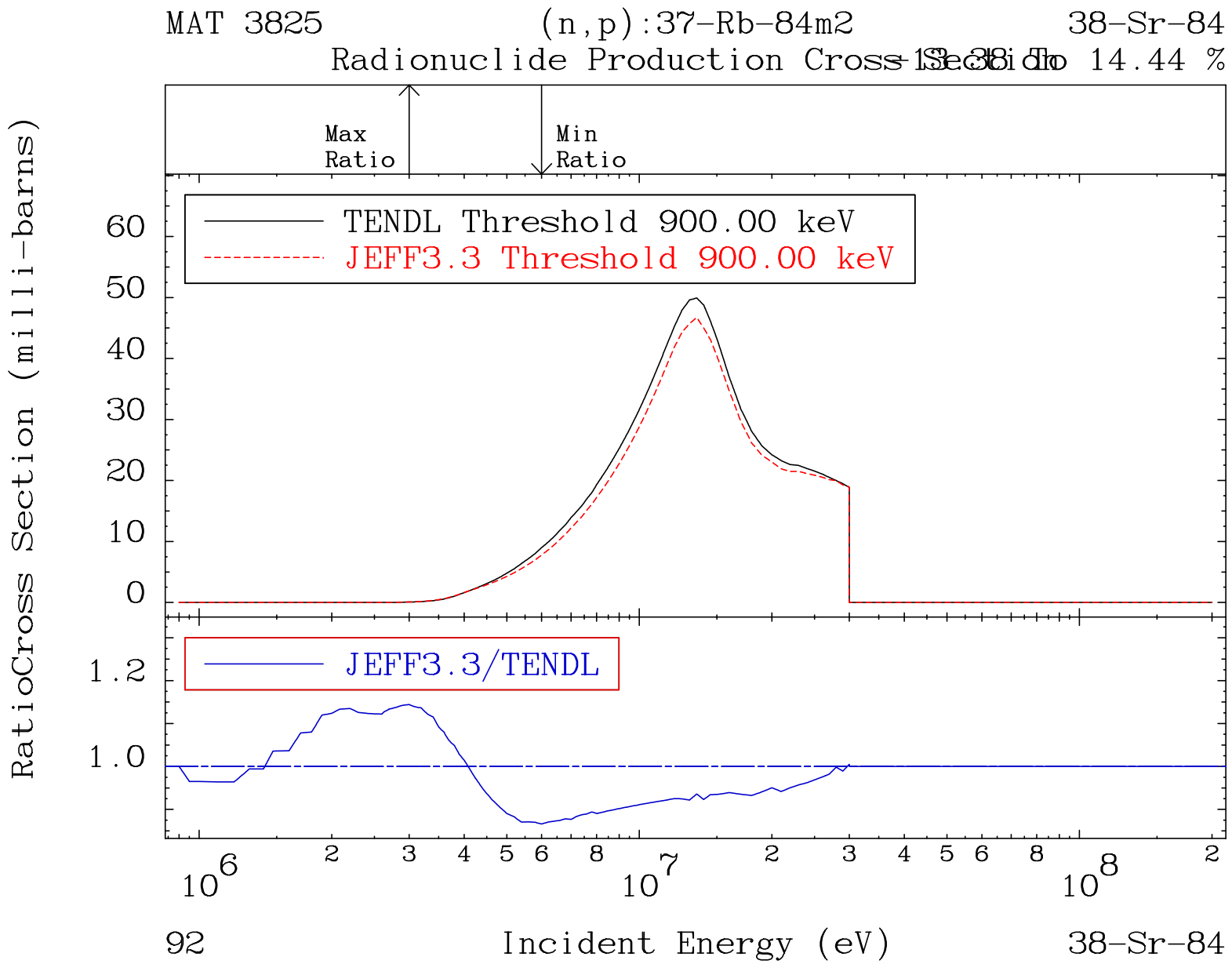

MAT 3825
(n,2n) p:37-Rb-82g
38-Sr-84
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 20.060 MeV
JEFF3.3 Threshold 20.060 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^4
10^2
10^0
20
40
60
80
100
120
140
160
180
200
87
Incident Energy (MeV)
38-Sr-84

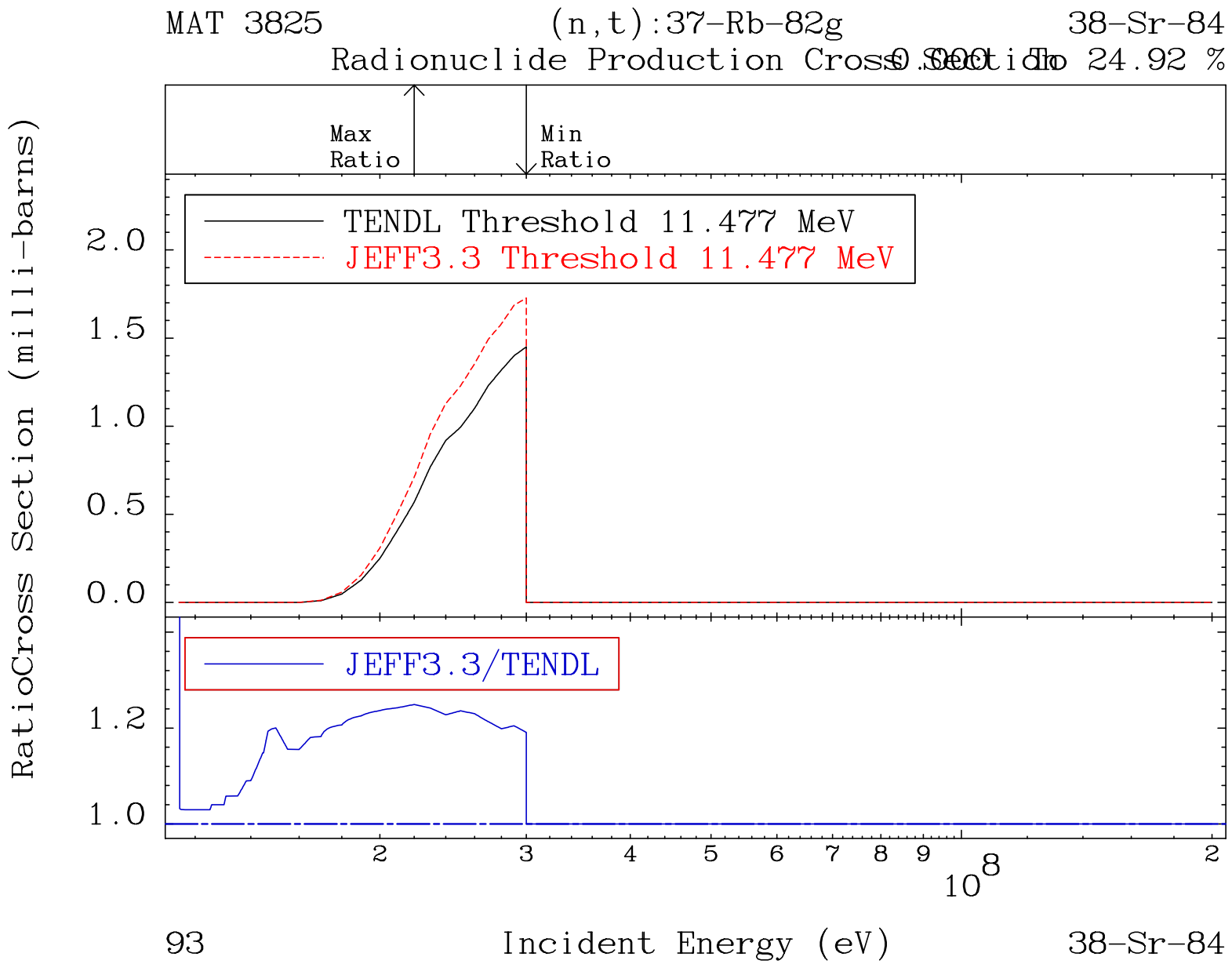

MAT 3825
(n,2n) p:37-Rb-82m1
38-Sr-84
Radionuclide Production Cross Section To 9999. %
Min
Ratio
TENDL Threshold 20.130 MeV
JEFF3.3 Threshold 20.130 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
80
40
0
10^6
10^4
10^2
10^0
20
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
38-Sr-84

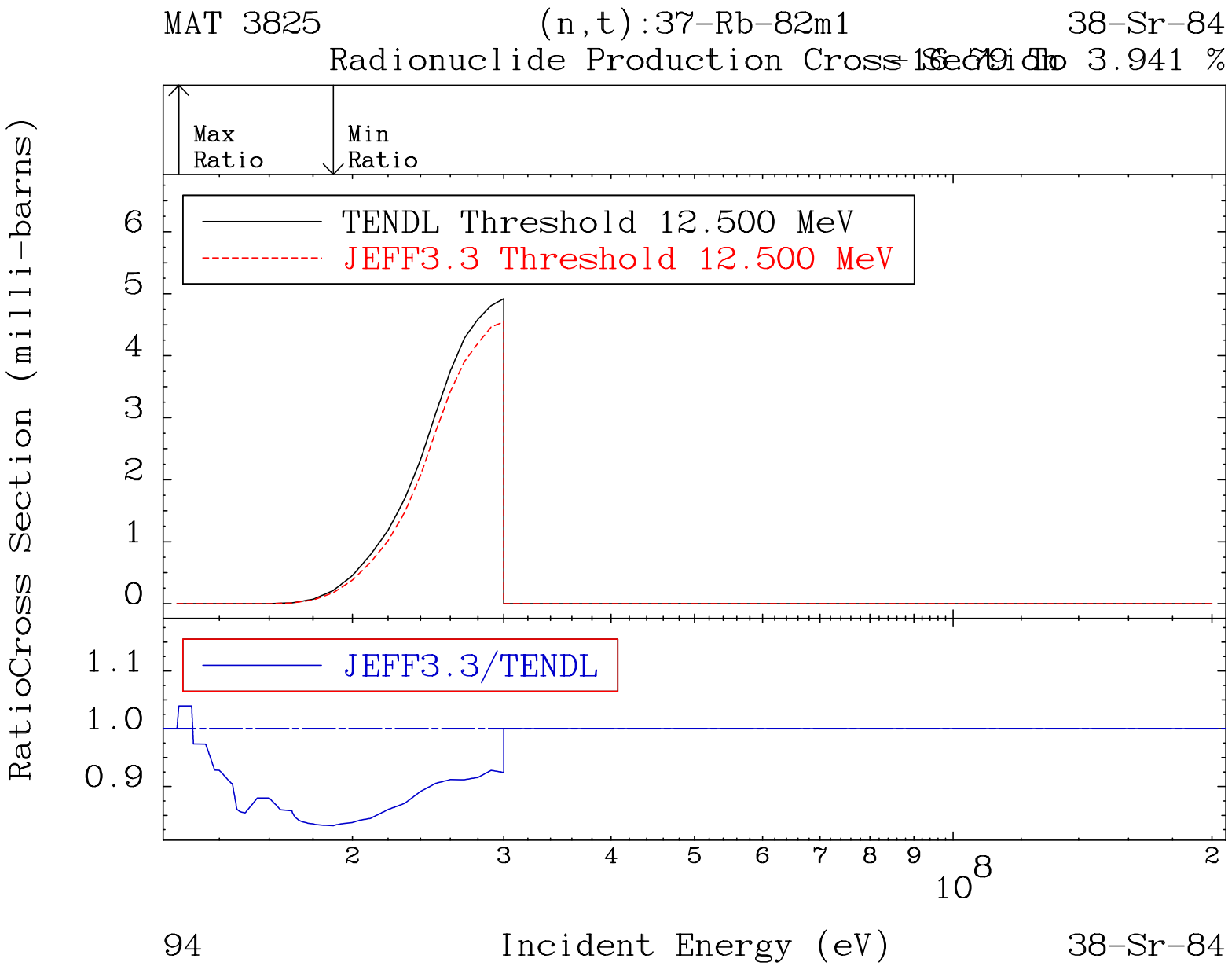

MAT 3825
(n,n') p α:35-Br-79g
38-Sr-84
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 14.467 MeV
JEFF3.3 Threshold 14.467 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
38-Sr-84

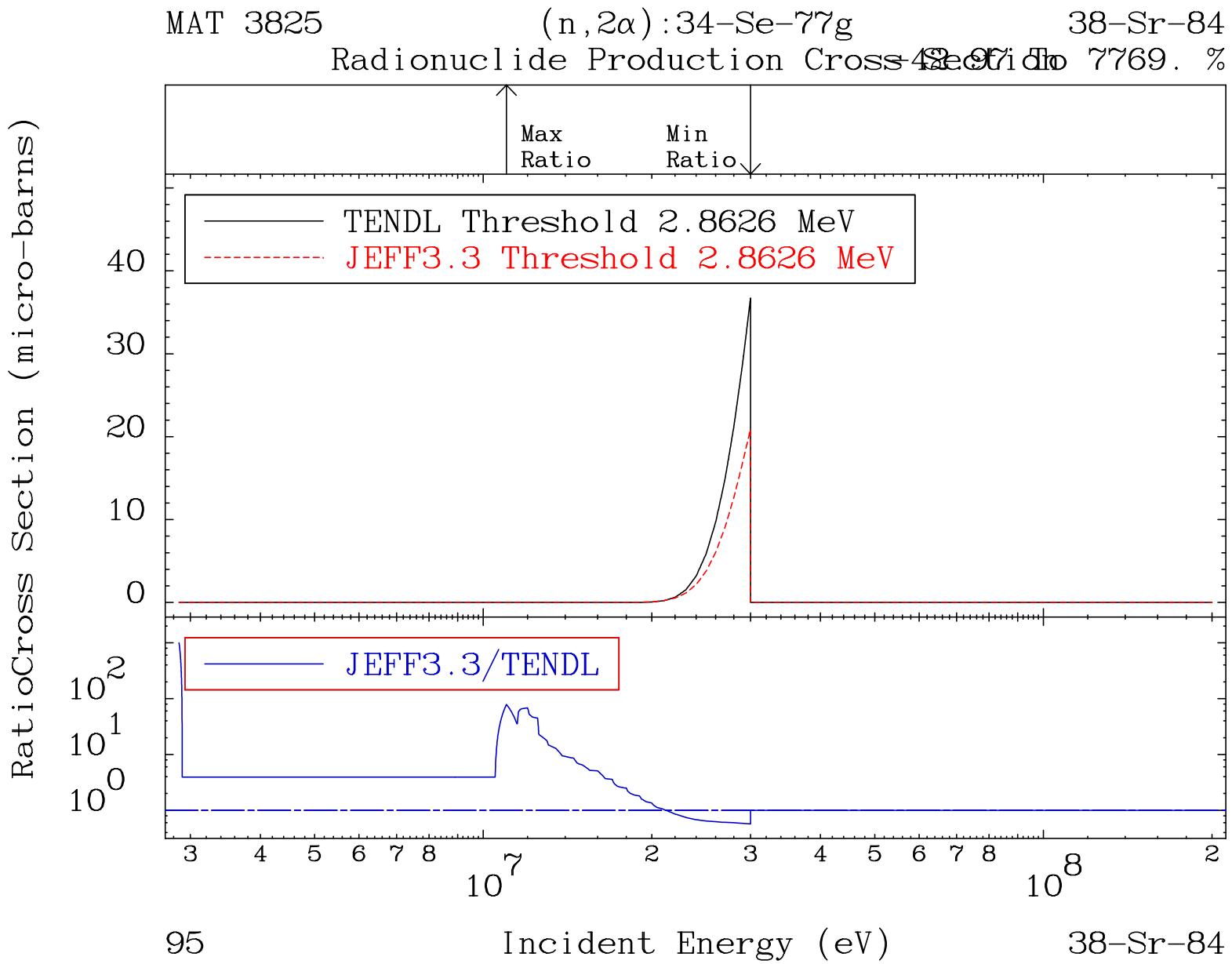

MAT 3825 (n,n') p α:35-Br-79m1 38-Sr-84
Radionuclide Production Cross Section To 7857. %
Min Ratio
Max Ratio
TENDL Threshold 14.677 MeV
JEFF3.3 Threshold 14.677 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
140
120
100
80
60
40
20
0
10^{2}
10^{0}
10^{-2}
2
3
4
5
6
7
8
9
2
10^{8}
90
Incident Energy (eV)
38-Sr-84

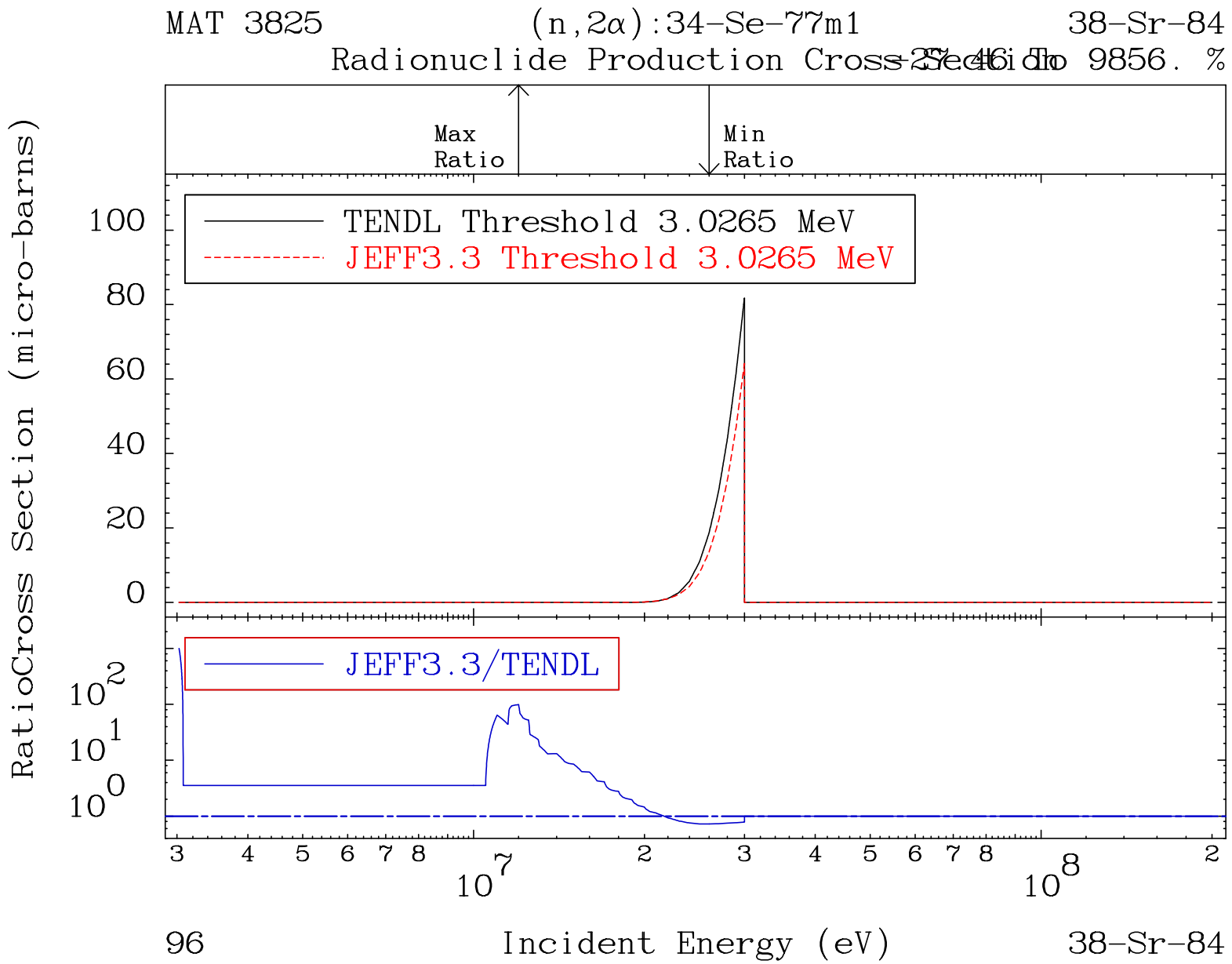

MAT 3825
(n,p):37-Rb-84g
38-Sr-84
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 109.56 keV
JEFF3.3 Threshold 109.54 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
91
38-Sr-84

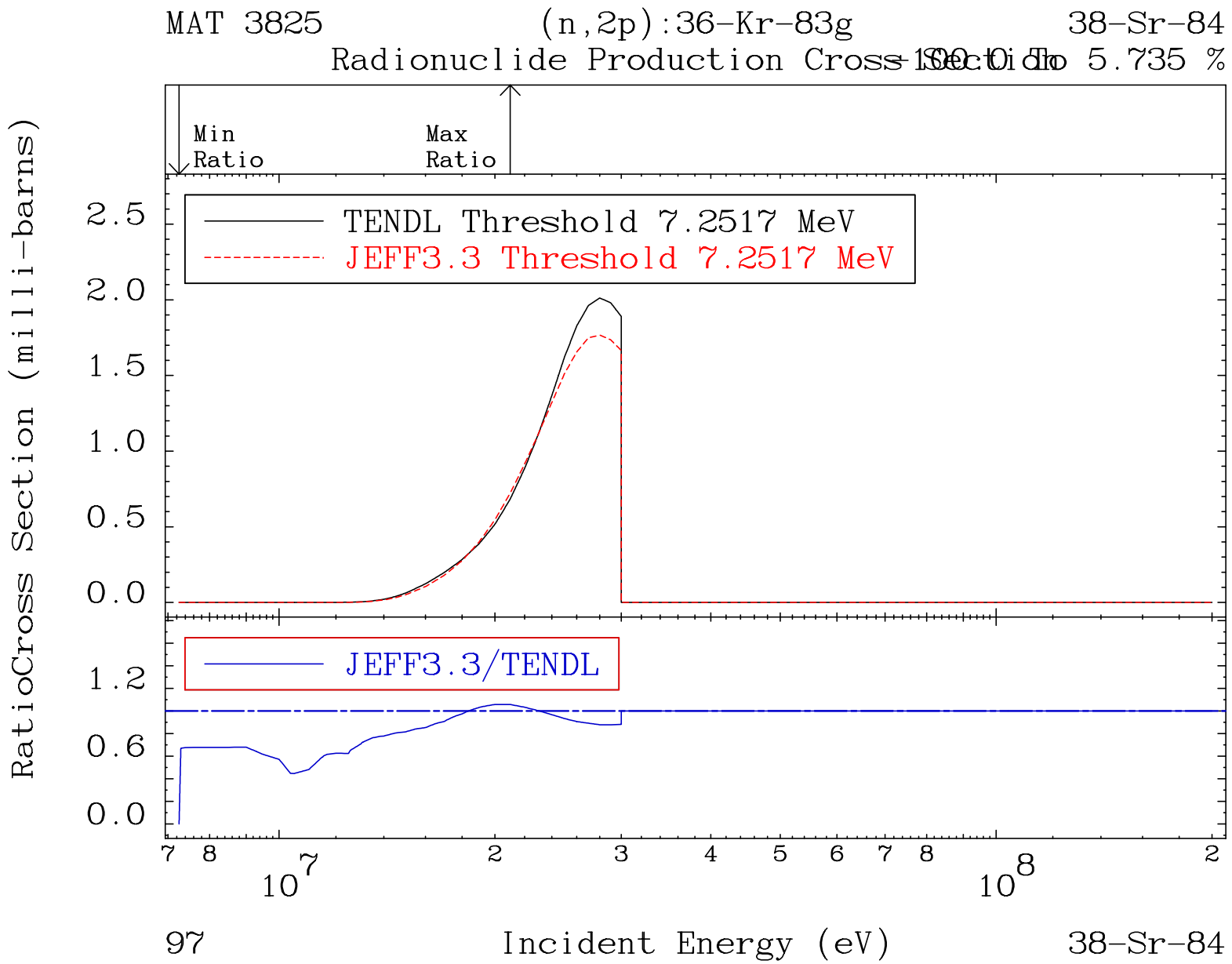

MAT 3825
(n,p):37-Rb-84m2
38-Sr-84
Radionuclide Production Cross Section To 14.44 %
Max Ratio
Min Ratio
TENDL Threshold 900.00 keV
JEFF3.3 Threshold 900.00 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
92
38-Sr-84

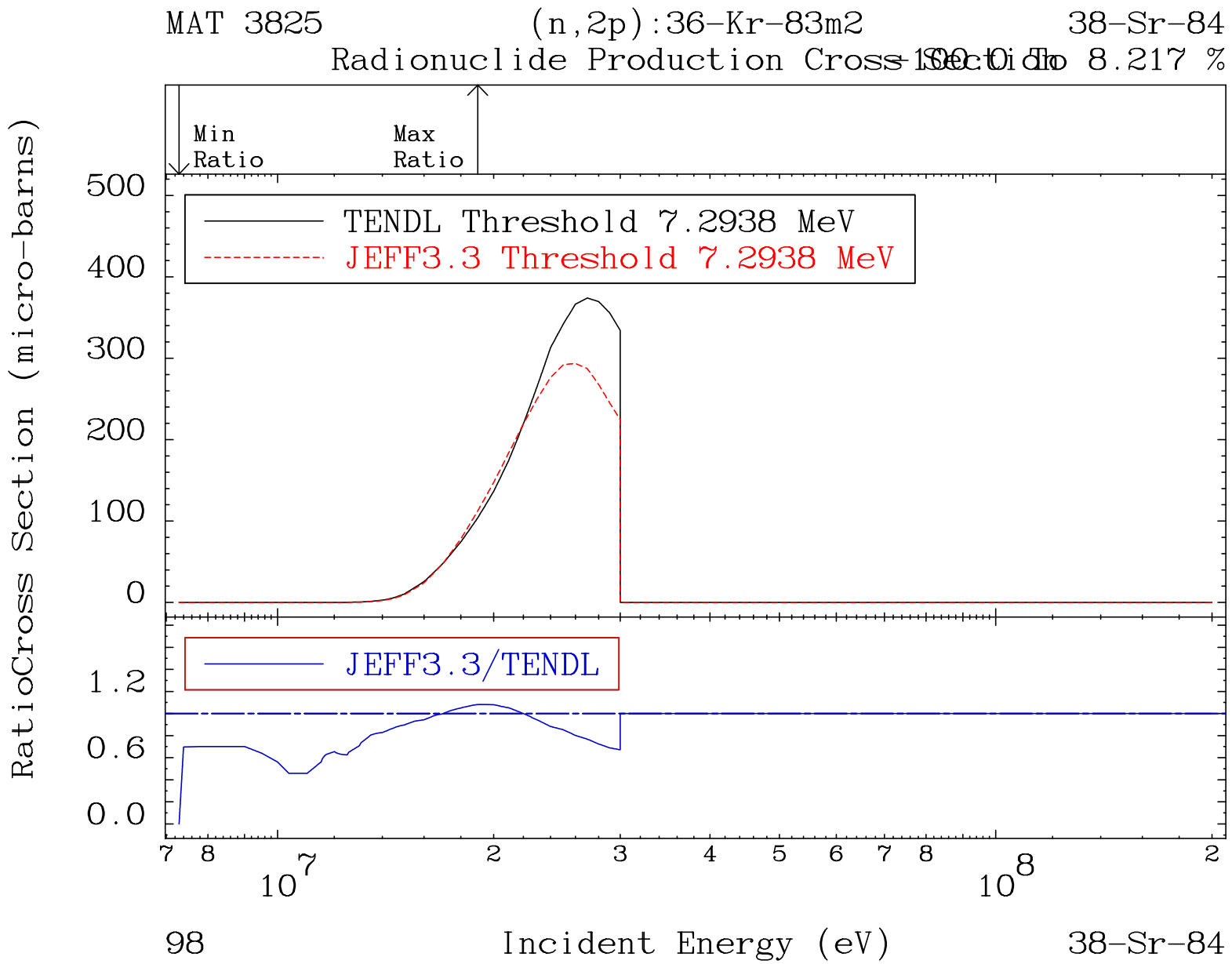

MAT 3825
(n,t):37-Rb-82g
38-Sr-84
Radionuclide Production Cross Section To 24.92 %
Max Ratio
Min Ratio
TENDL Threshold 11.477 MeV
JEFF3.3 Threshold 11.477 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
1.2
1.0
2
3
4
5
6
7
8
9
2
10^8
93
Incident Energy (eV)
38-Sr-84

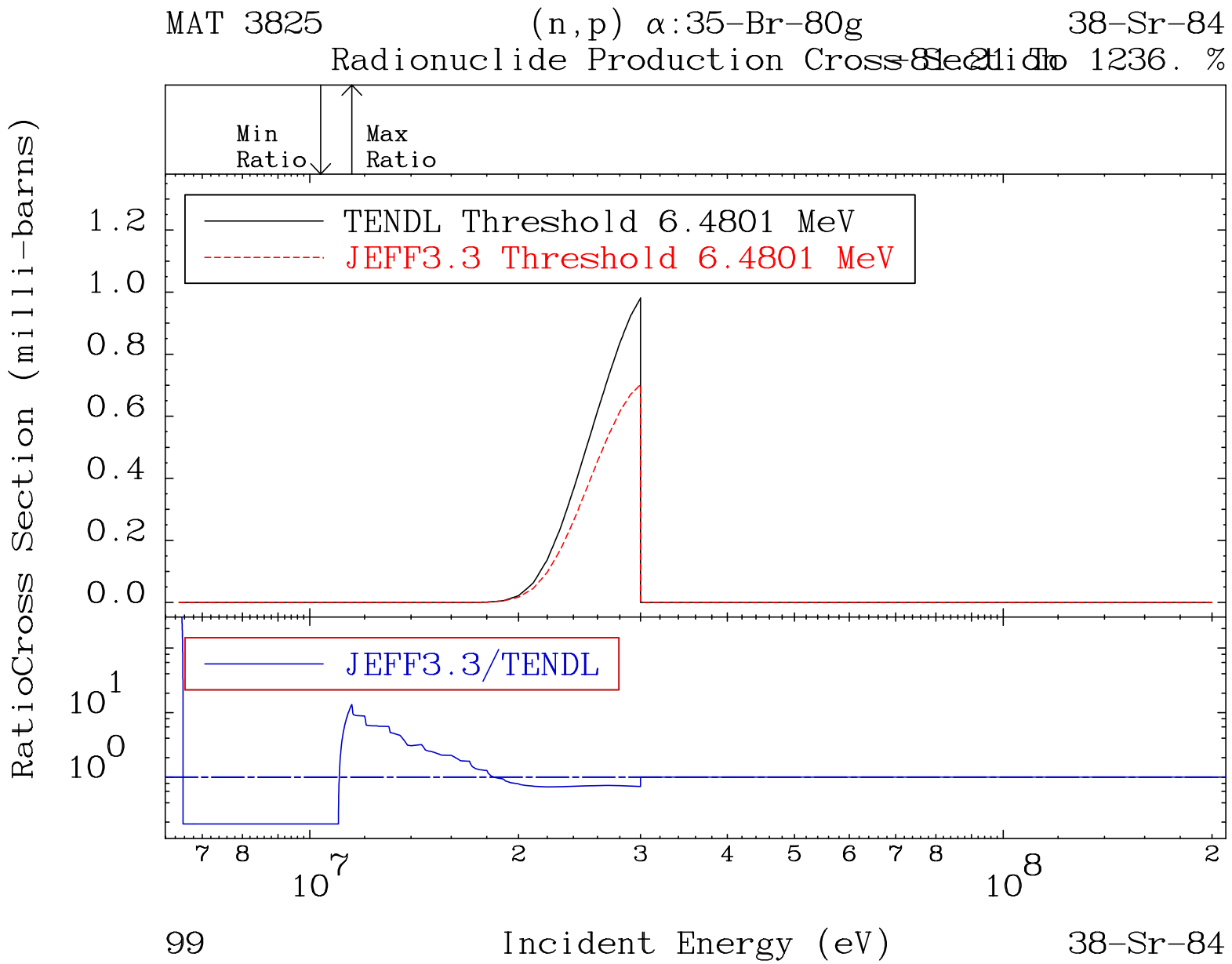

MAT 3825
(n,t):37-Rb-82m1
38-Sr-84
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
94
38-Sr-84

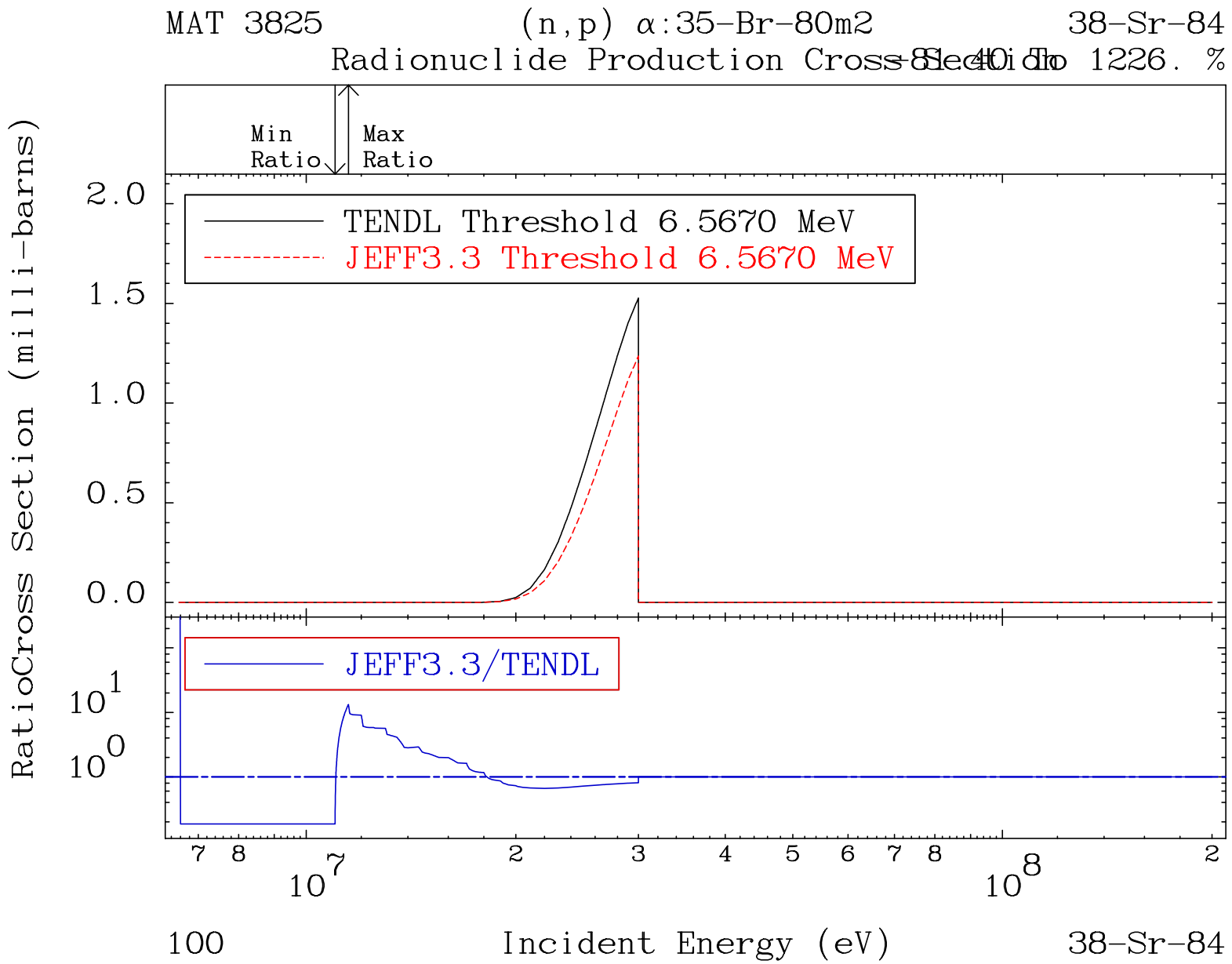

MAT 3825
(n,2α):34-Se-77g
38-Sr-84
Radionuclide Production Cross-Section
Max Ratio
Min Ratio
TENDL Threshold 2.8626 MeV
JEFF3.3 Threshold 2.8626 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
95
38-Sr-84

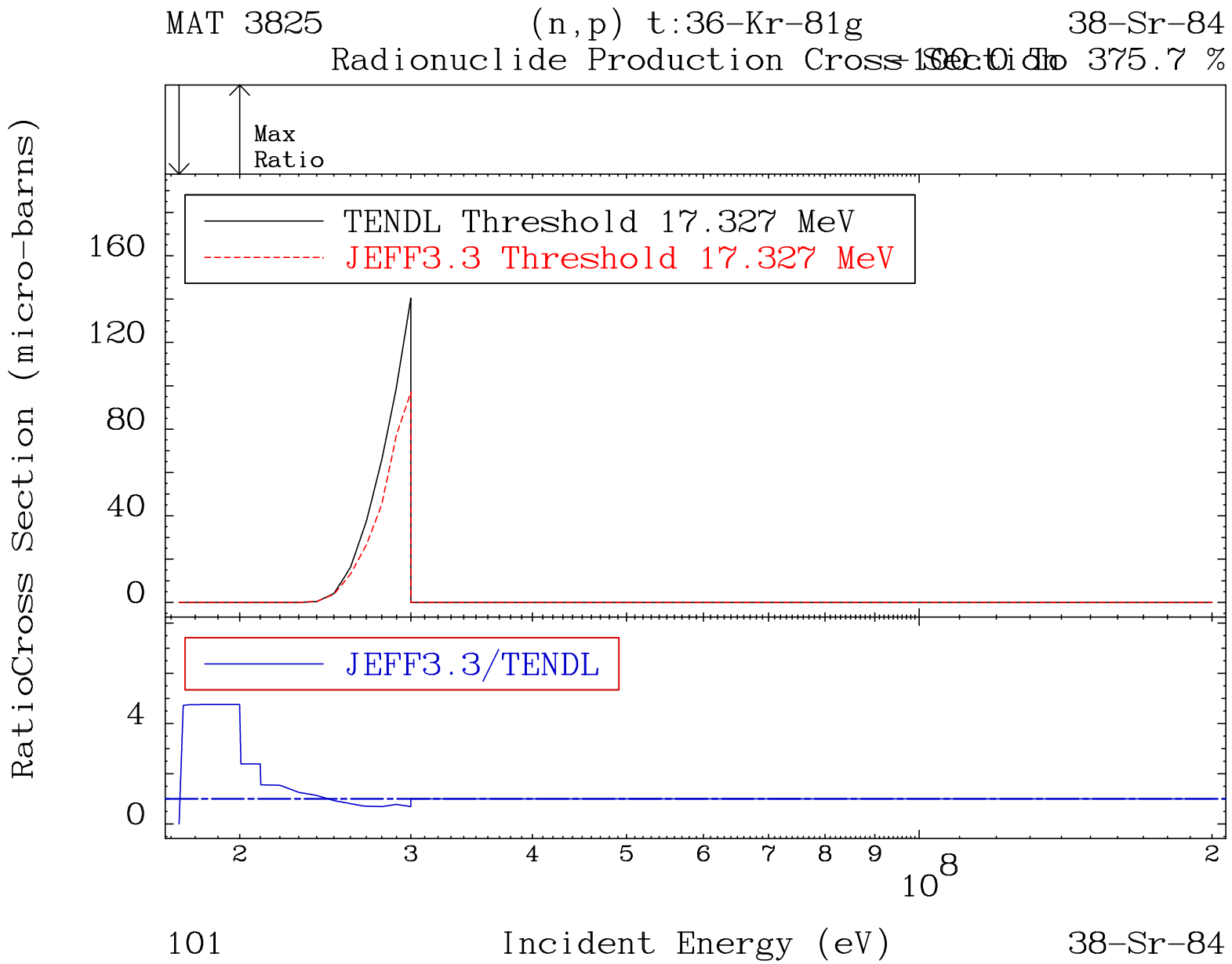

MAT 3825
(n,2α):34-Se-77m1
38-Sr-84
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 3.0265 MeV
JEFF3.3 Threshold 3.0265 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
96
38-Sr-84

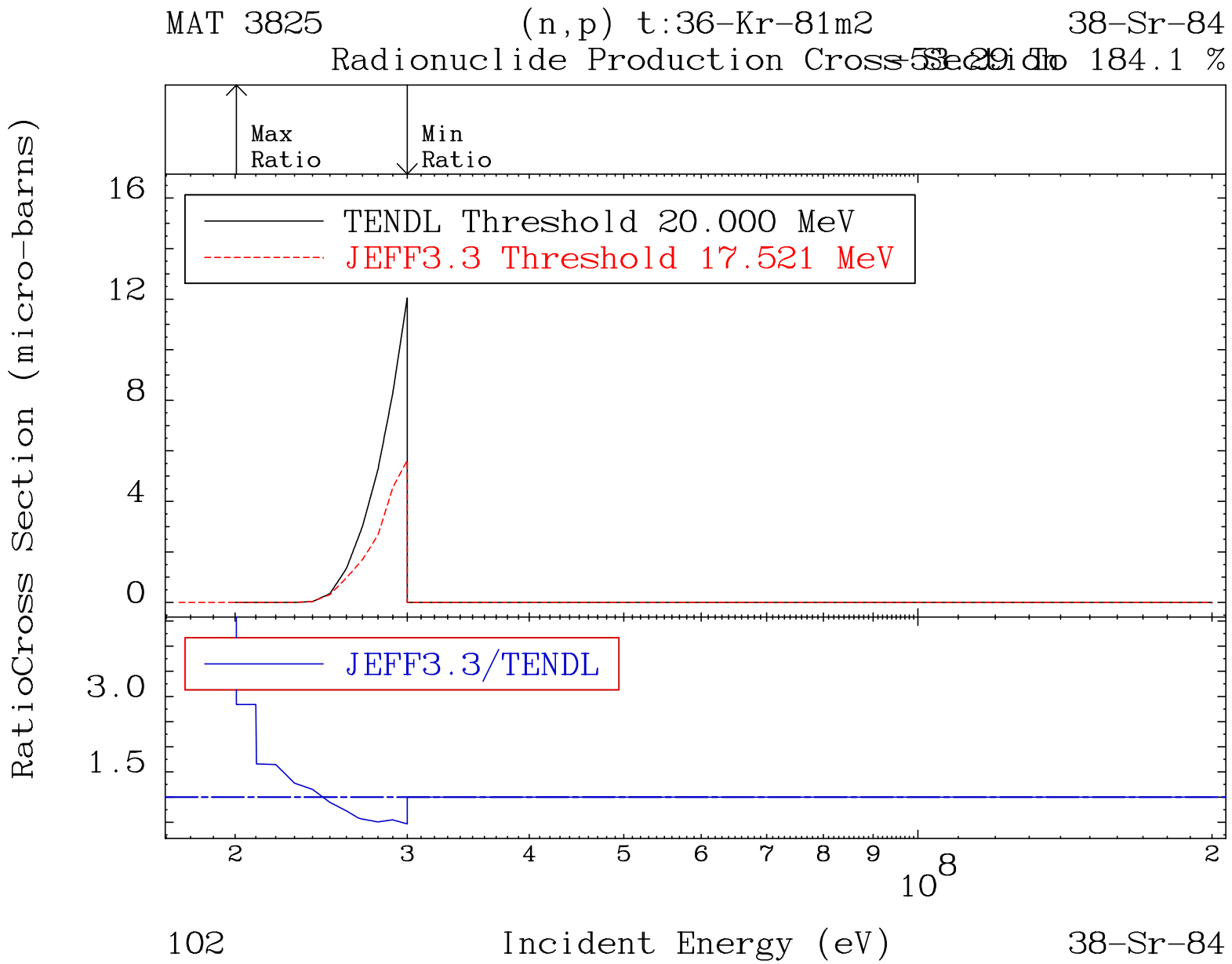

MAT 3825
(n,2p):36-Kr-83g
38-Sr-84
Radionuclide Production Cross Section To 5.735 %
Min Ratio
Max Ratio
TENDL Threshold 7.2517 MeV
JEFF3.3 Threshold 7.2517 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
97
Incident Energy (eV)
38-Sr-84

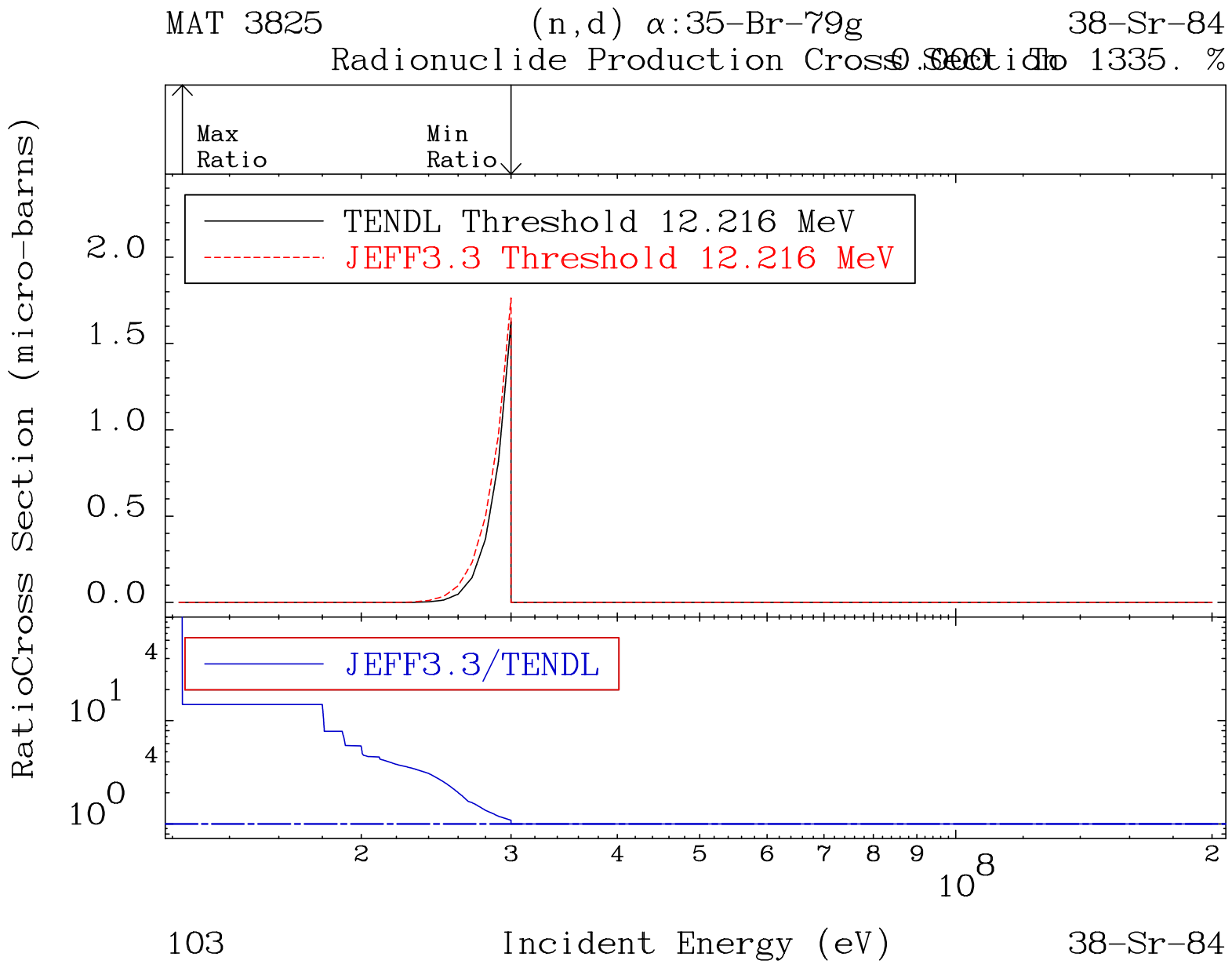

MAT 3825
(n,2p):36-Kr-83m2
38-Sr-84
Radionuclide Production Cross Section To 8.217 %
Min Ratio
Max Ratio
TENDL Threshold 7.2938 MeV
JEFF3.3 Threshold 7.2938 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
98
Incident Energy (eV)
38-Sr-84

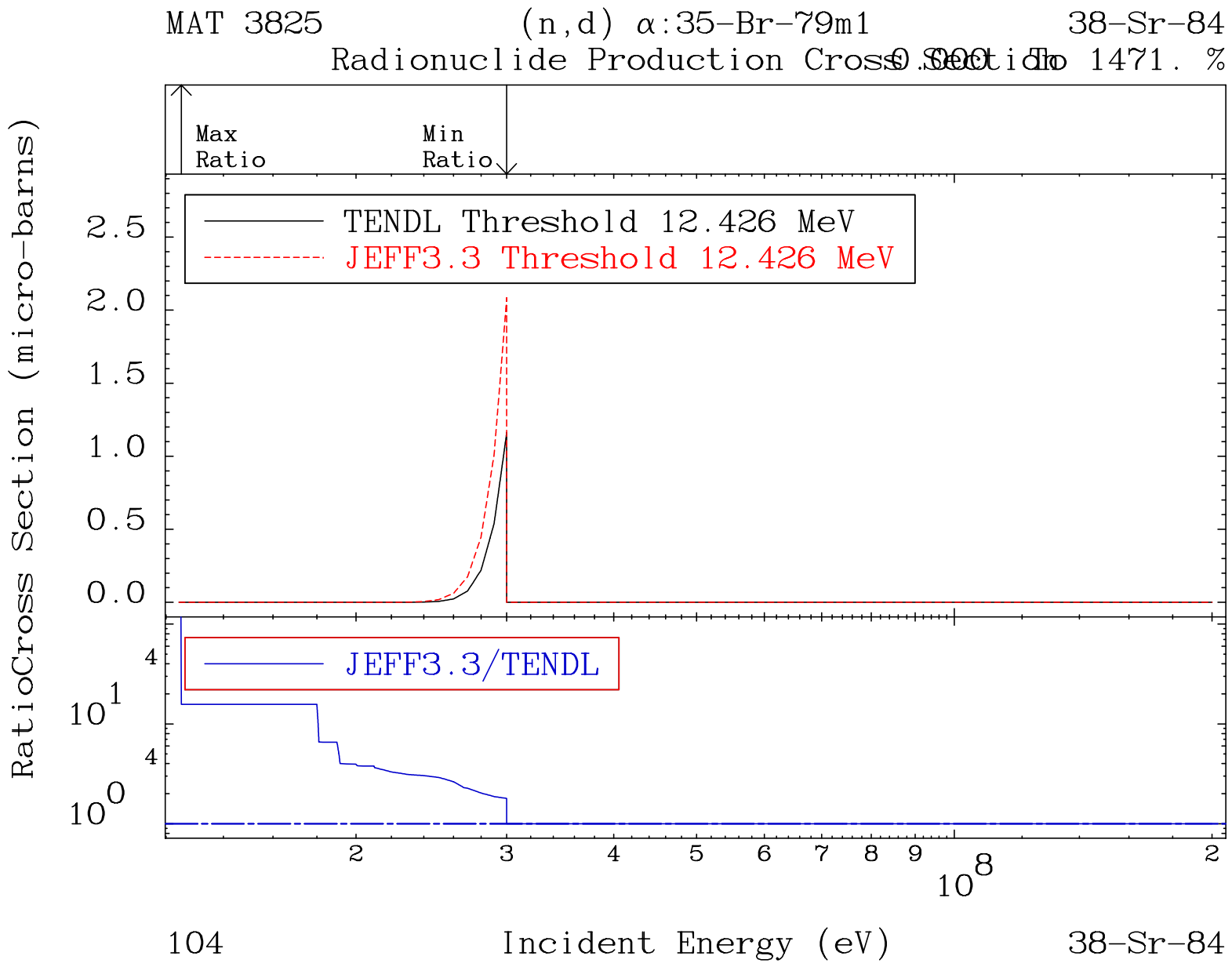

MAT 3825
(n,p) α:35-Br-80g
38-Sr-84
Radionuclide Production Cross-Section To 1236. %
Min Ratio
Max Ratio
TENDL Threshold 6.4801 MeV
JEFF3.3 Threshold 6.4801 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^1
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
99
Incident Energy (eV)
38-Sr-84


MAT 3825
(n,p) α:35-Br-80m2
38-Sr-84
Radionuclide Production Cross-Section To 1226. %
Min Ratio
Max Ratio
TENDL Threshold 6.5670 MeV
JEFF3.3 Threshold 6.5670 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^1
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
100
Incident Energy (eV)
38-Sr-84


MAT 3825
(n,p) t:36-Kr-81g
38-Sr-84
Radionuclide Production Cross Section To 375.7 %
Max
Ratio
TENDL Threshold 17.327 MeV
JEFF3.3 Threshold 17.327 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
4
0
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
38-Sr-84


MAT 3825
(n,p) t:36-Kr-81m2
38-Sr-84
Radionuclide Production Cross Section To 184.1 %
Max Ratio
Min Ratio
TENDL Threshold 20.000 MeV
JEFF3.3 Threshold 17.521 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
3.0
1.5
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
38-Sr-84


MAT 3825
(n,d) α:35-Br-79g
38-Sr-84
Radionuclide Production Cross Section
0.000 To 1335. %
Max Ratio
Min Ratio
TENDL Threshold 12.216 MeV
JEFF3.3 Threshold 12.216 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
38-Sr-84


MAT 3825
(n,d) α:35-Br-79m1
38-Sr-84
Radionuclide Production Cross Section
0.000 To 1471. %
Max Ratio
Min Ratio
TENDL Threshold 12.426 MeV
JEFF3.3 Threshold 12.426 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
104
Incident Energy (eV)
38-Sr-84