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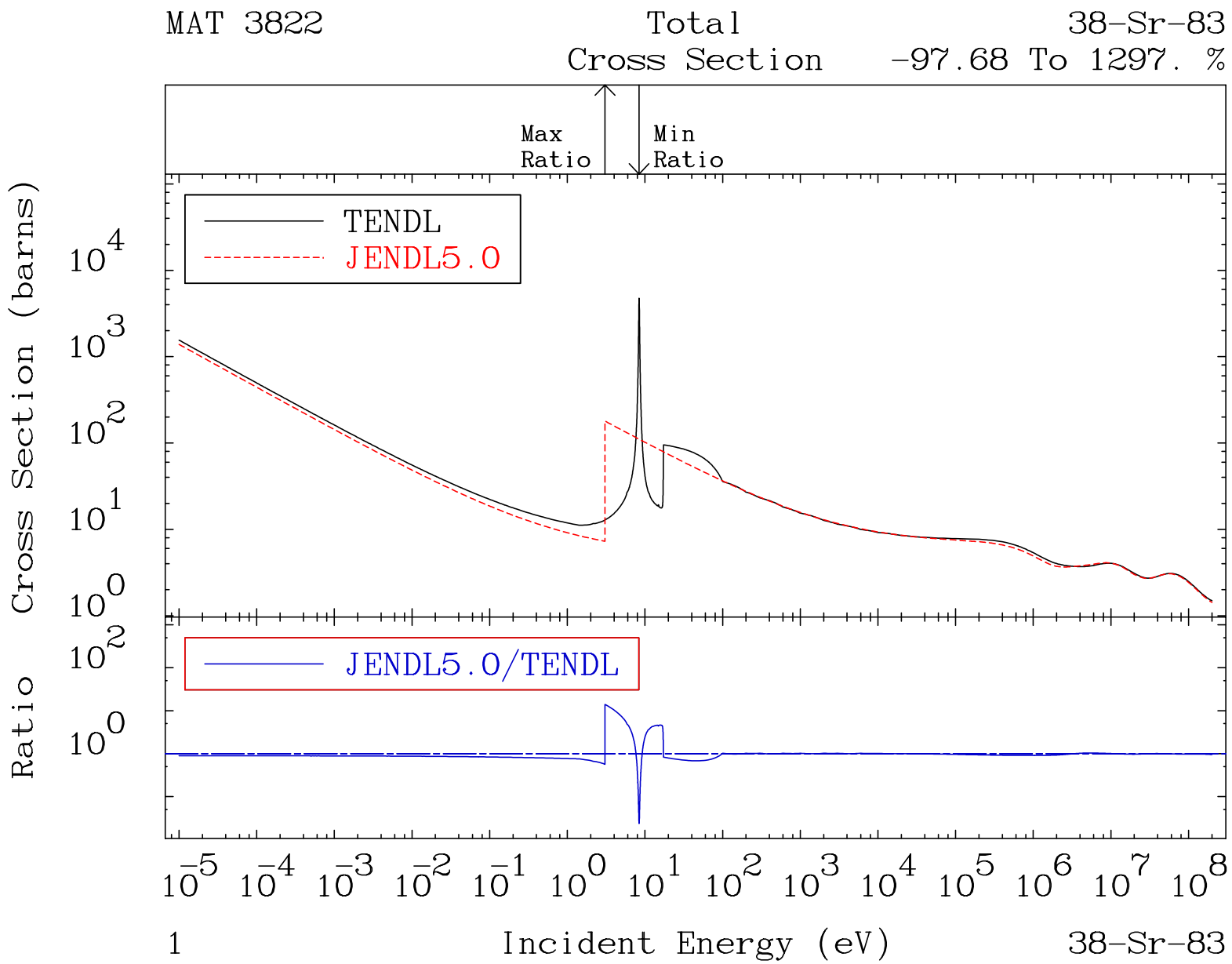
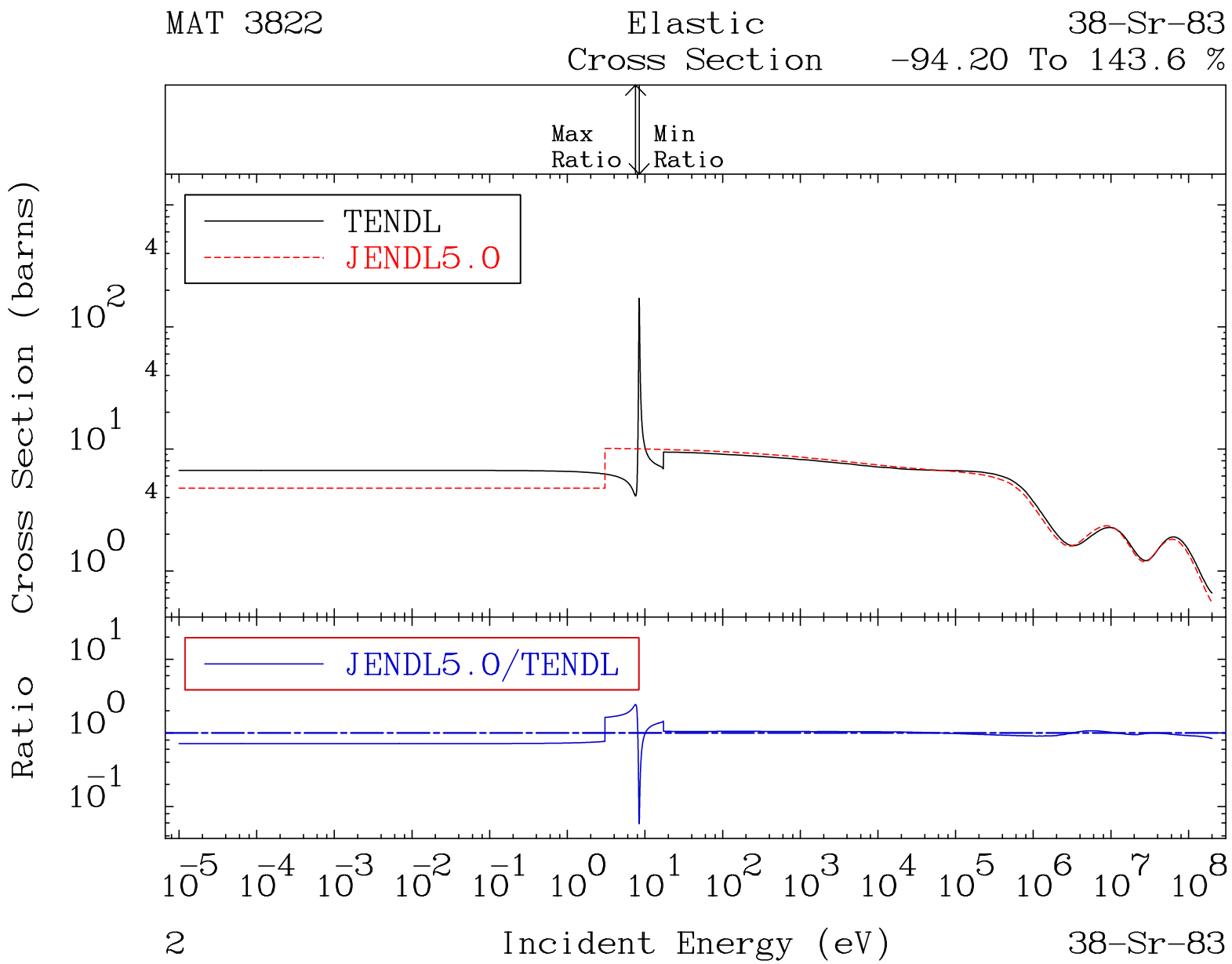
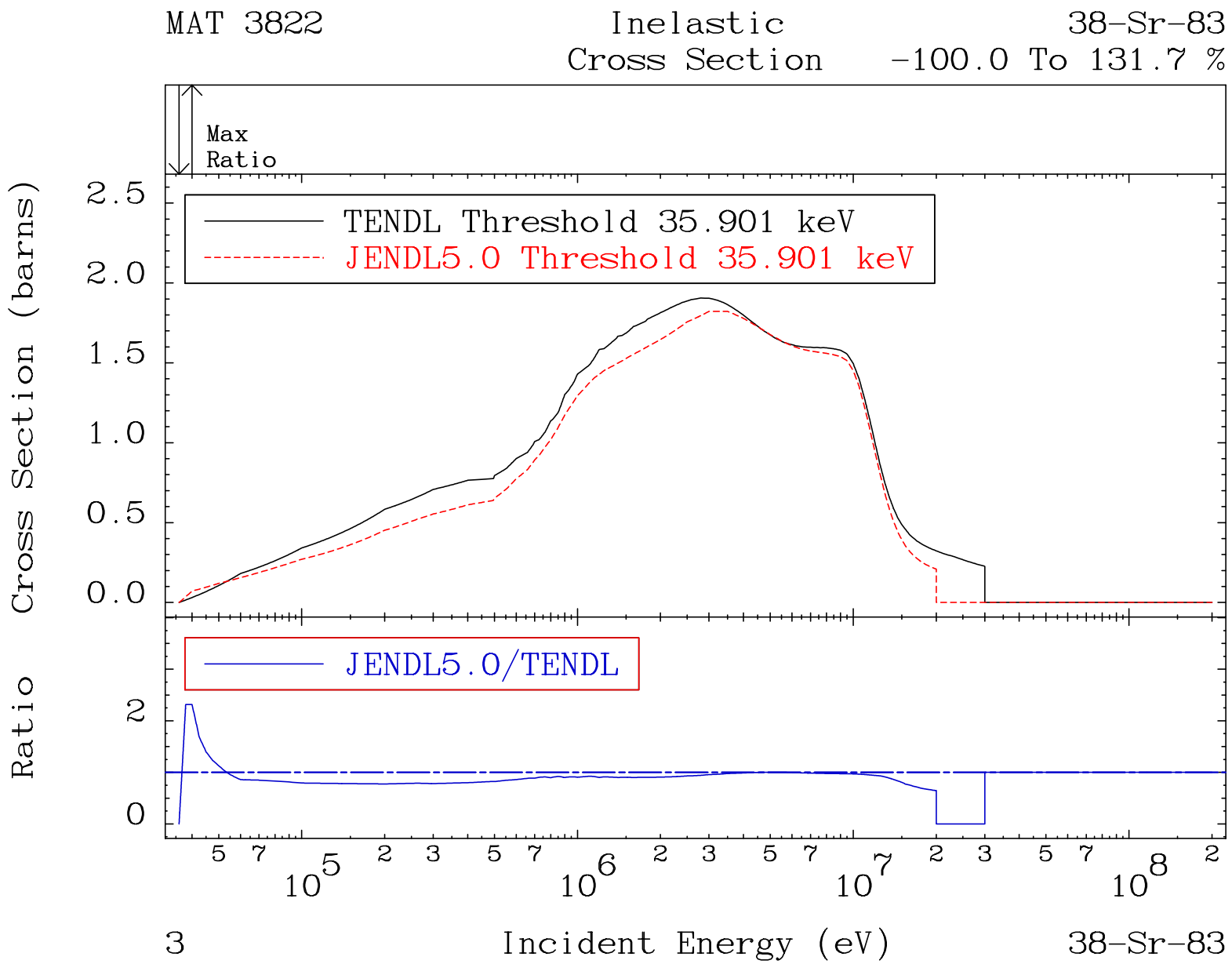
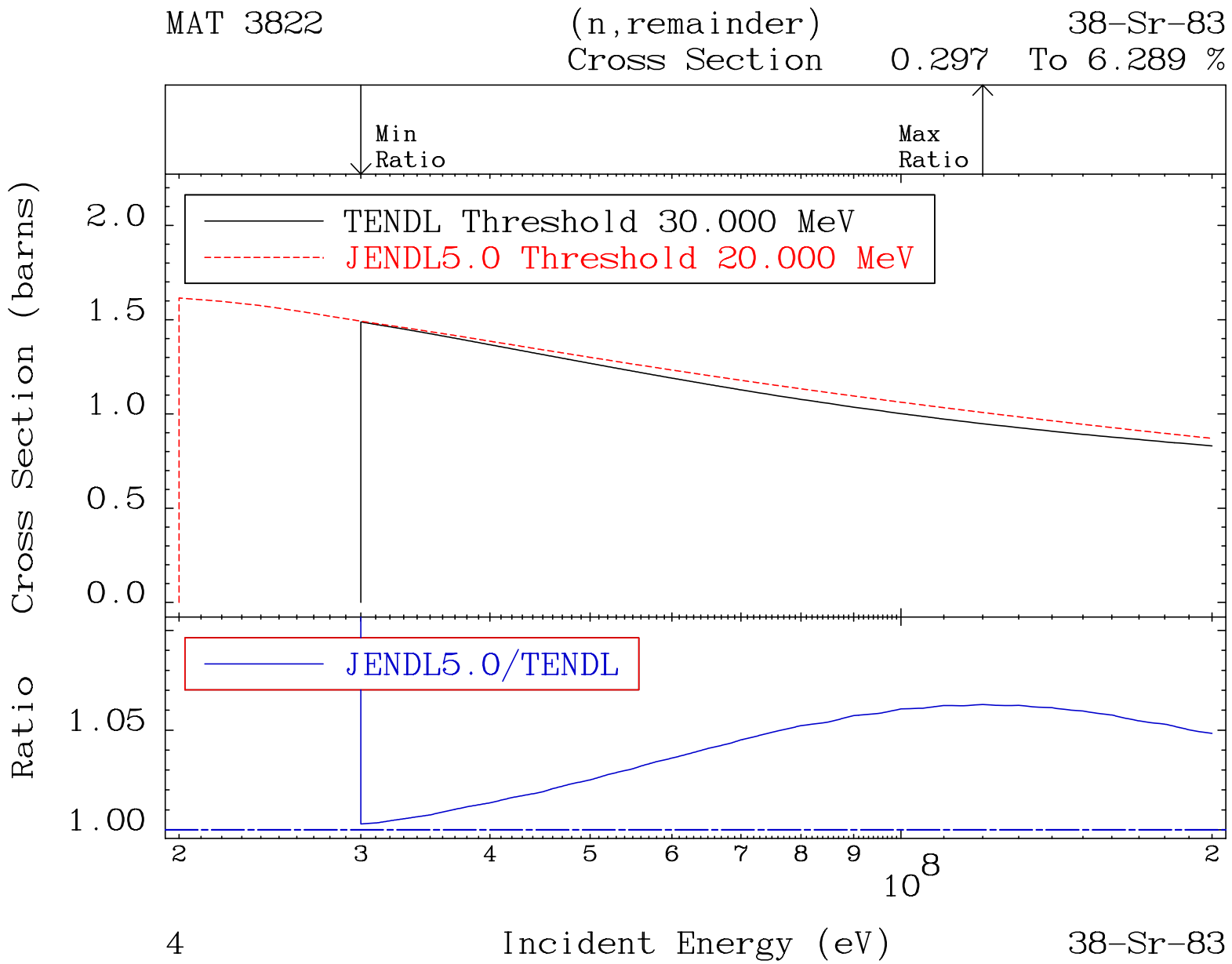
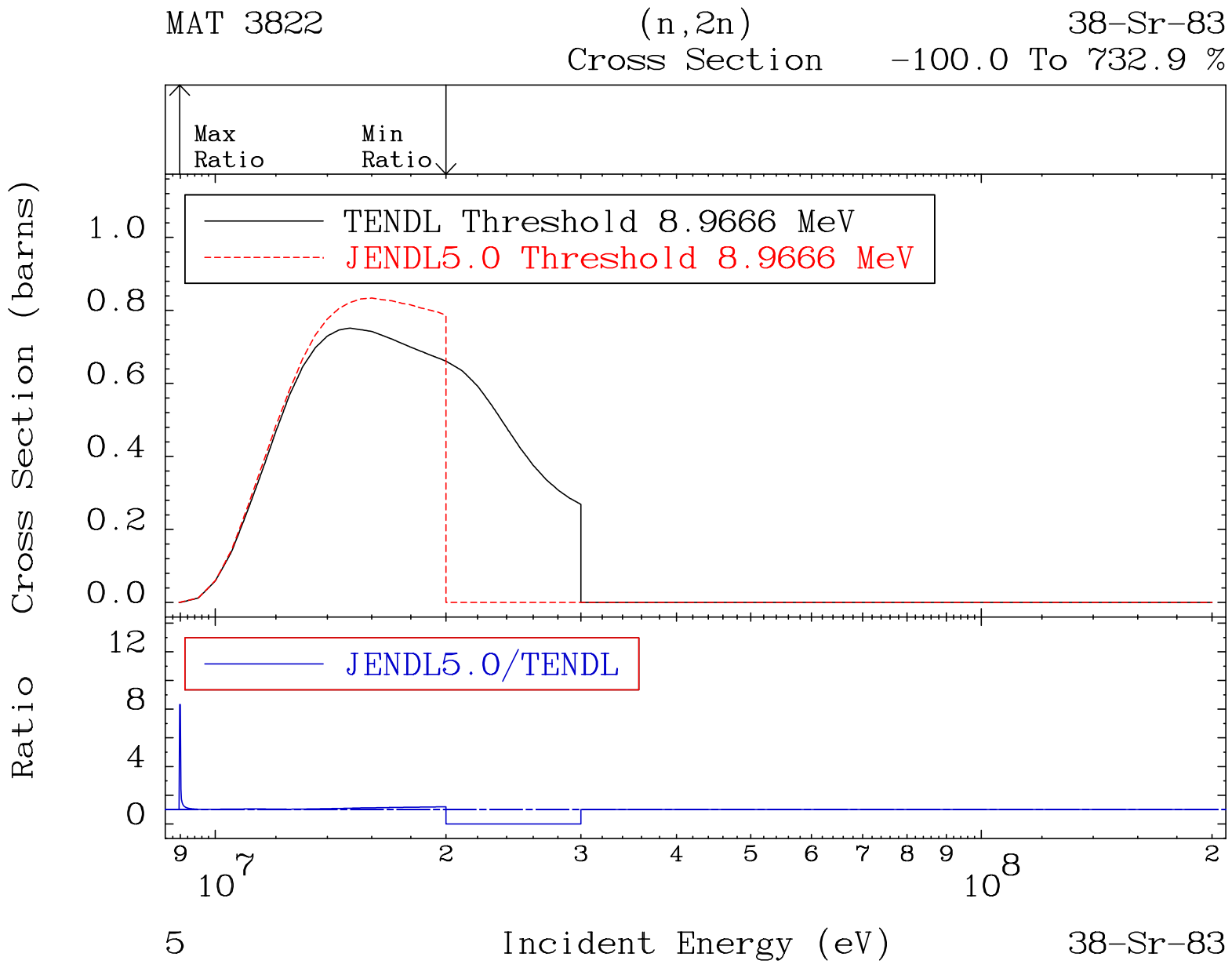
Press Mouse Button to Start

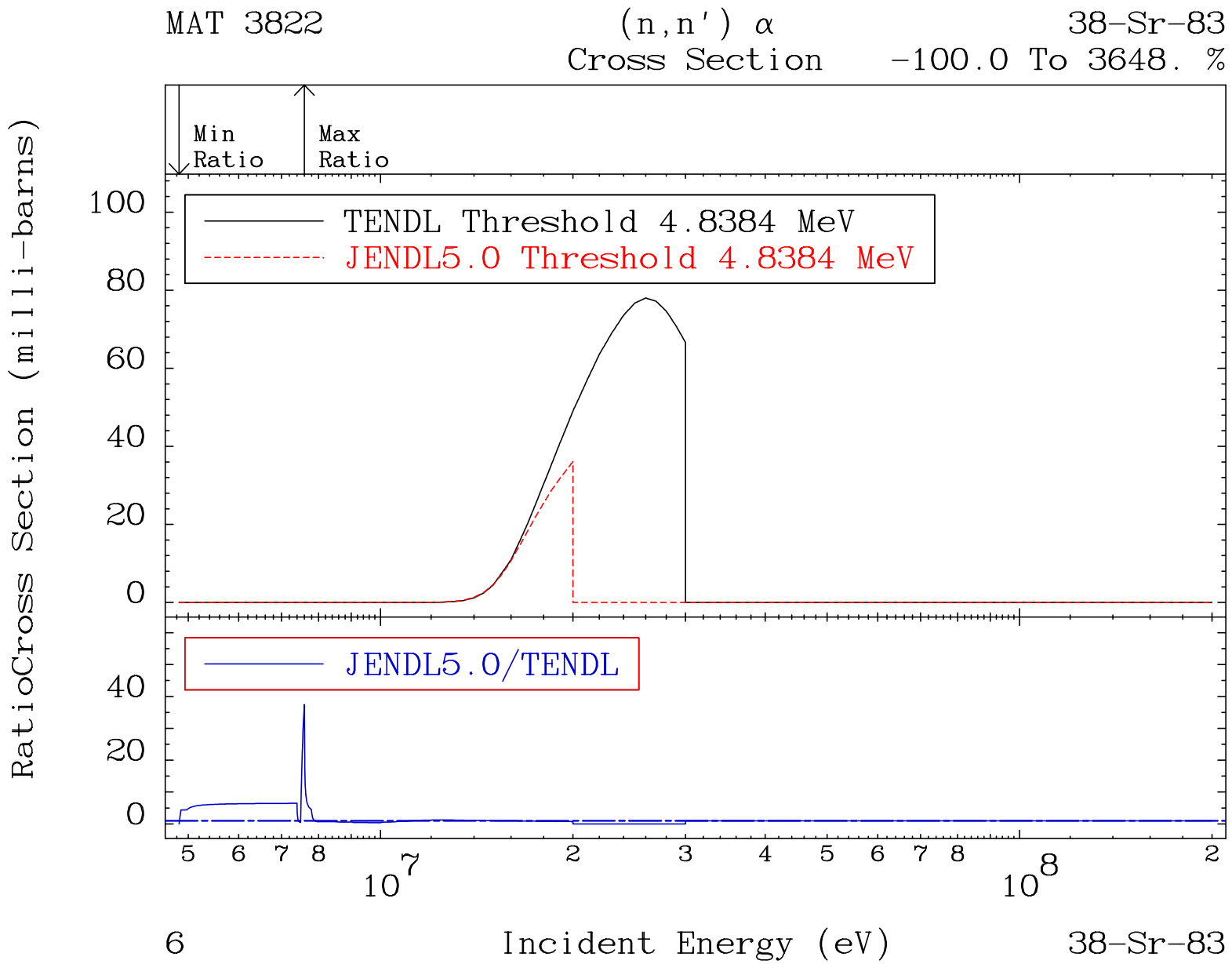

MAT 3822
Total
Cross Section
38-Sr-83
-97.68 To 1297. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
38-Sr-83

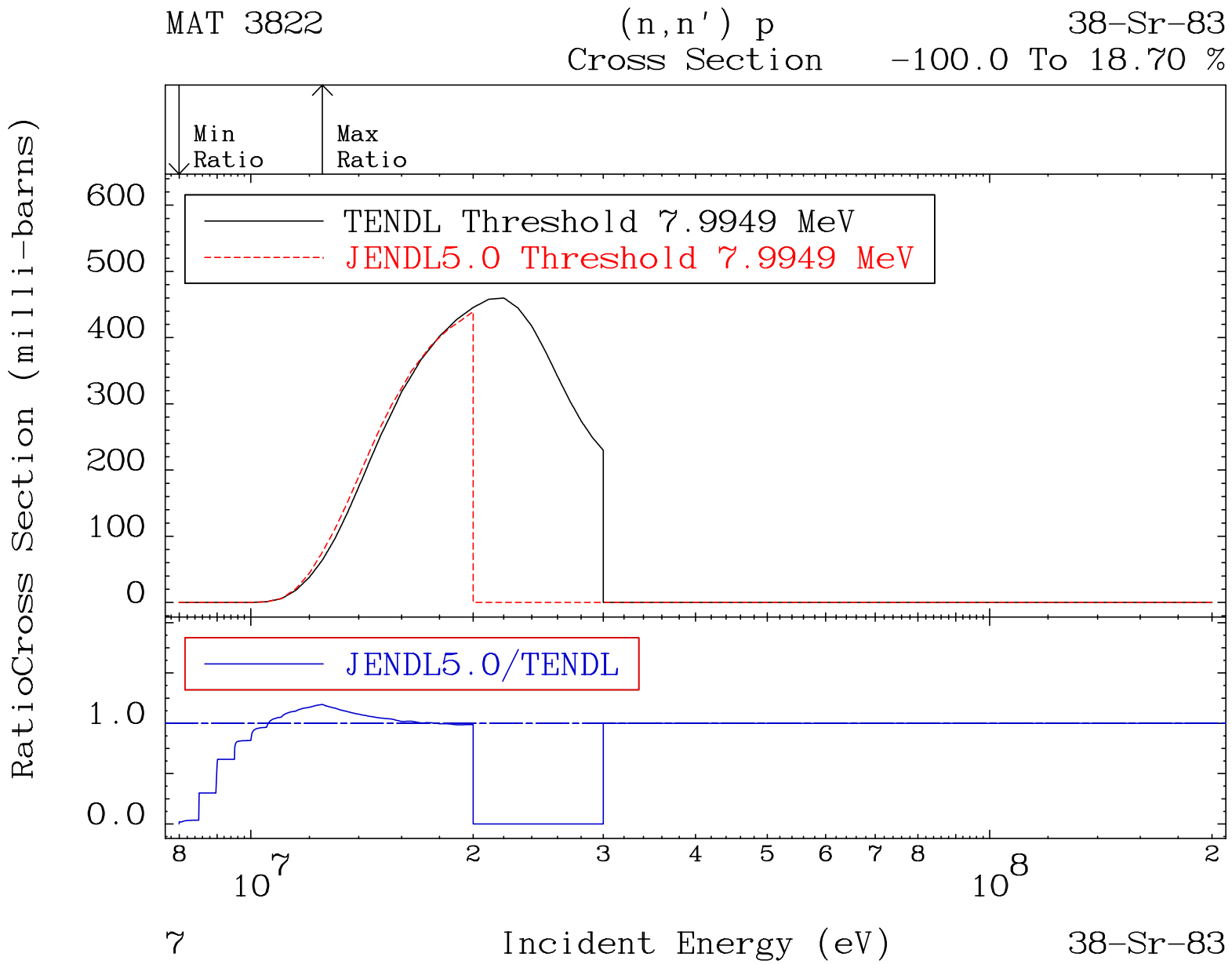

MAT 3822
Elastic
Cross Section
38-Sr-83
-94.20 To 143.6 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (barns)
Incident Energy (eV)
2
38-Sr-83

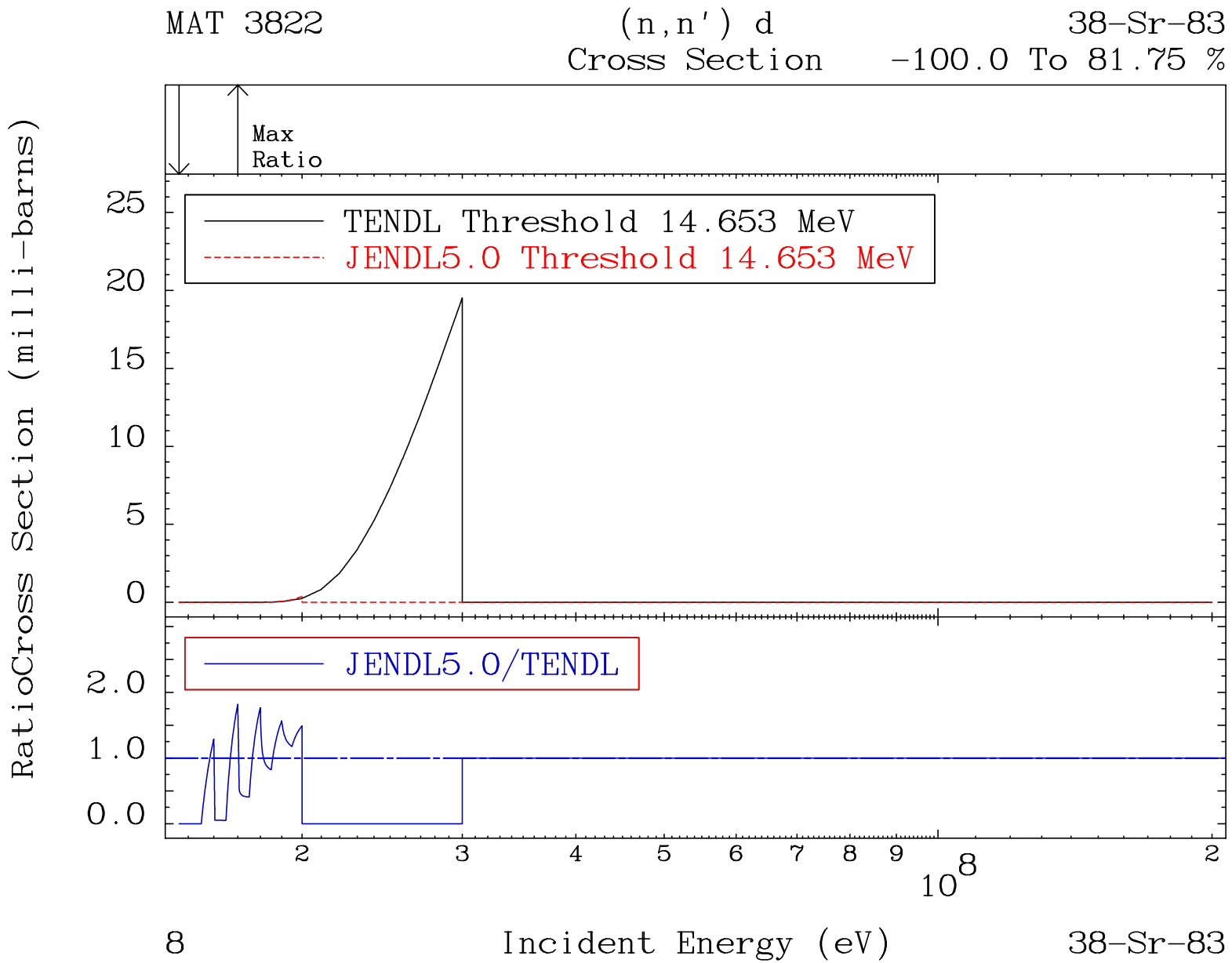

MAT 3822
Inelastic
Cross Section
38-Sr-83
-100.0 To 131.7 %
Max
Ratio
TENDL Threshold 35.901 keV
JENDL5.0 Threshold 35.901 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
38-Sr-83

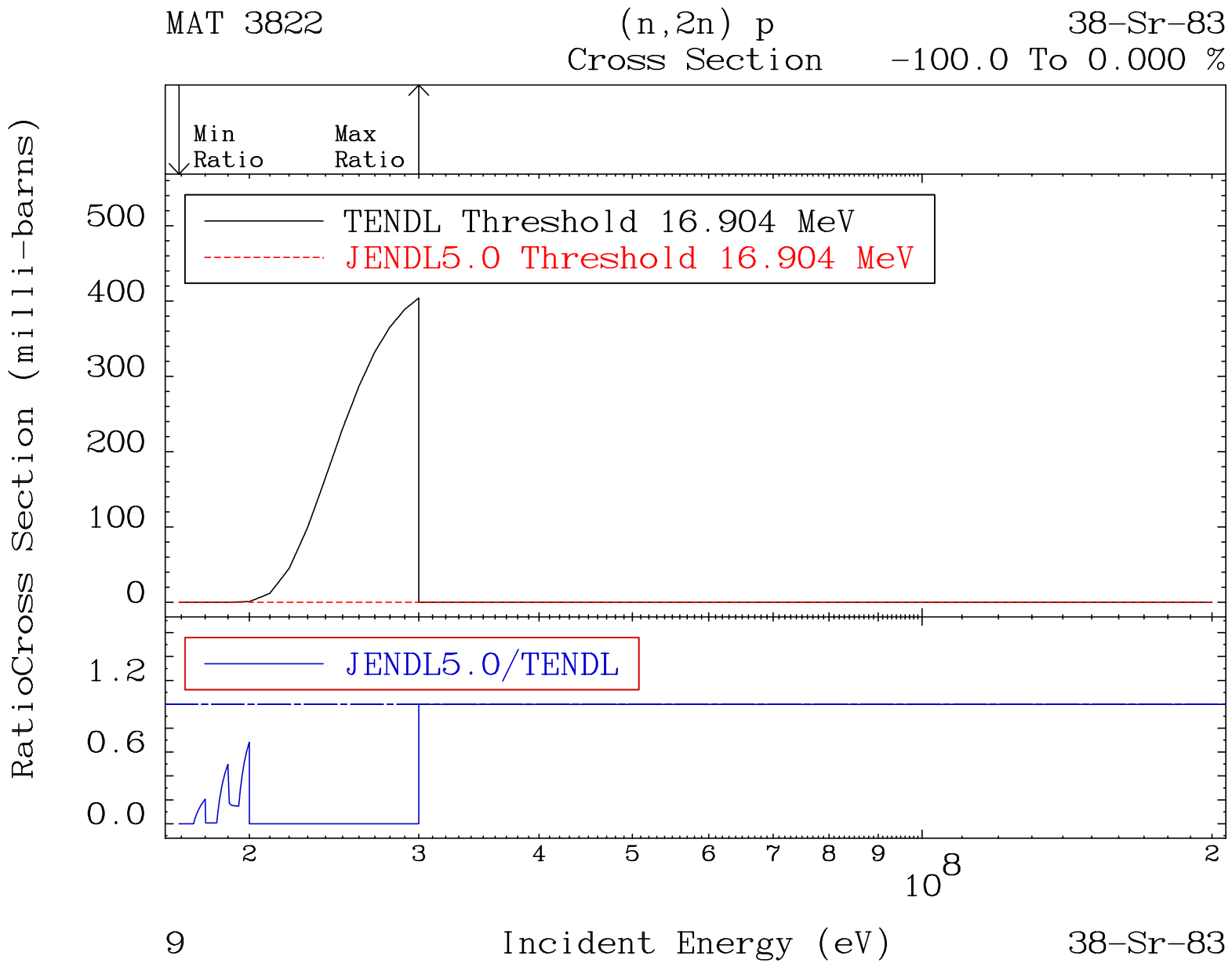

MAT 3822
(n,remainder)
Cross Section
38-Sr-83
0.297 To 6.289 %
Min Ratio
Max Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.05
1.00
2
3
4
5
6
7
8
9
10^8
Incident Energy (eV)
4
38-Sr-83

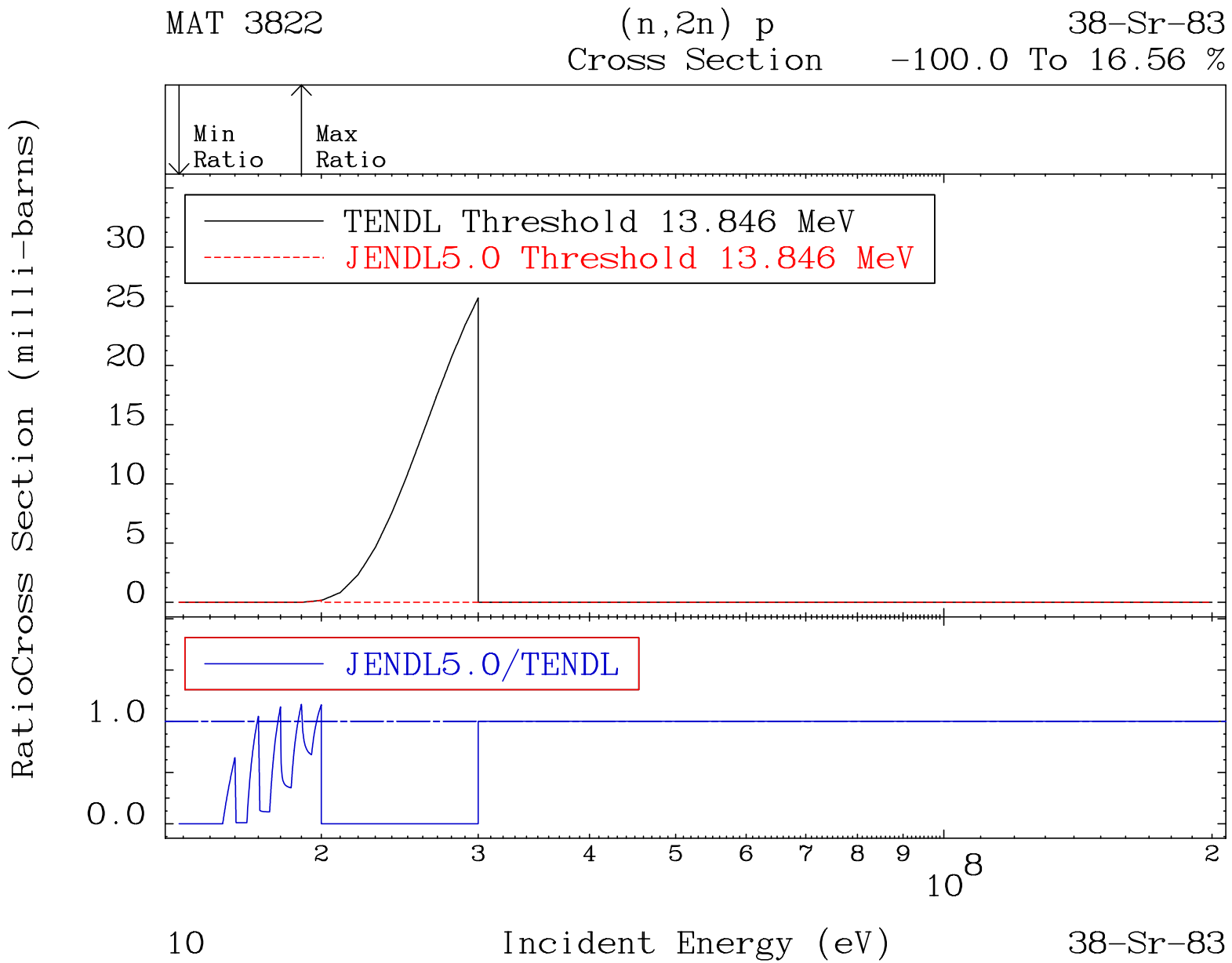

MAT 3822
(n,2n)
Cross Section
38-Sr-83
-100.0 To 732.9 %
Max Ratio
Min Ratio
TENDL Threshold 8.9666 MeV
JENDL5.0 Threshold 8.9666 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
12
8
4
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
Incident Energy (eV)
5
38-Sr-83

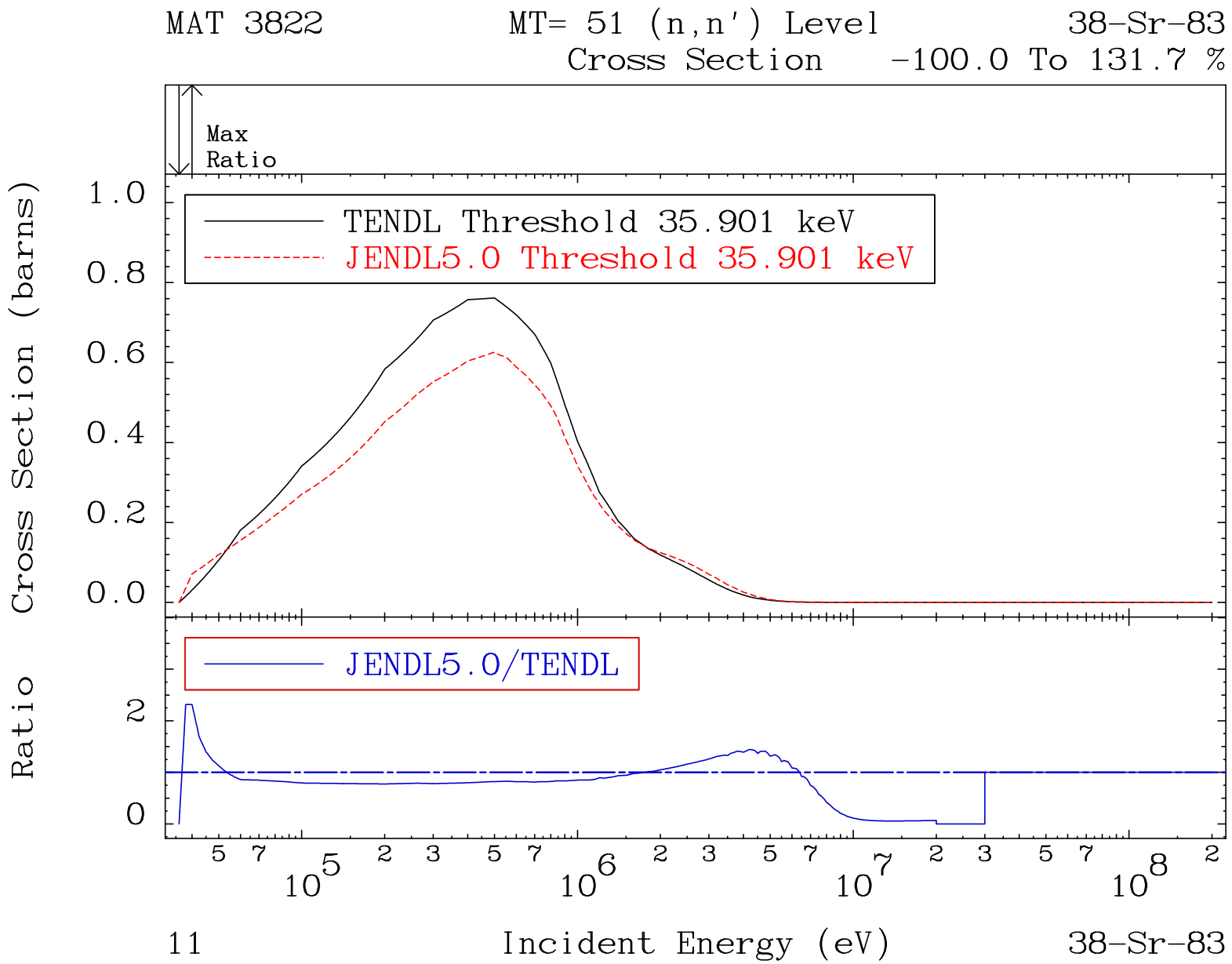

MAT 3822
(n,n') α
38-Sr-83
Cross Section
-100.0 To 3648. %
Min Ratio
Max Ratio
TENDL Threshold 4.8384 MeV
JENDL5.0 Threshold 4.8384 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
38-Sr-83

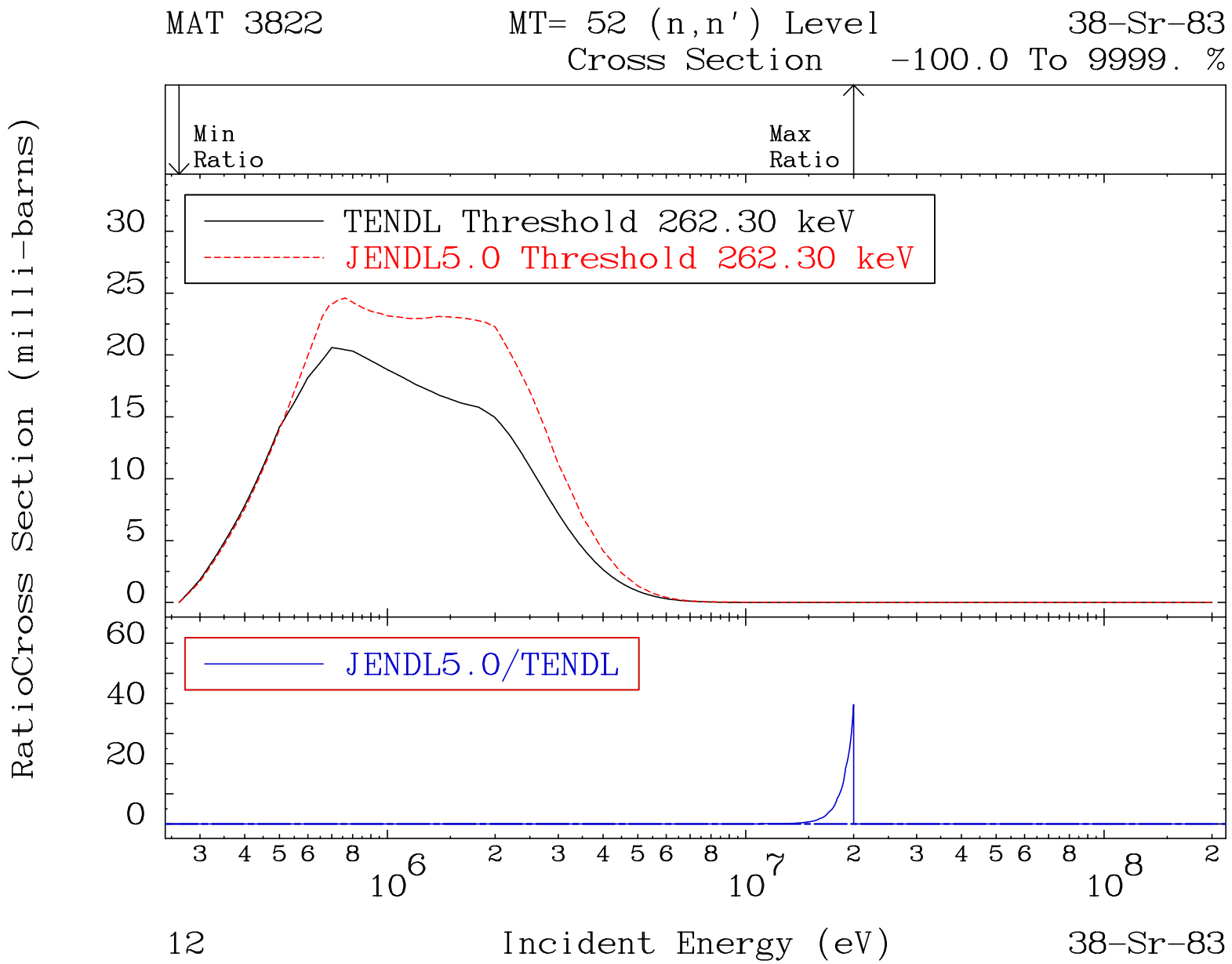

MAT 3822
(n,n') p
Cross Section
38-Sr-83
-100.0 To 18.70 %
Min Ratio
Max Ratio
TENDL Threshold 7.9949 MeV
JENDL5.0 Threshold 7.9949 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
1.0
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
7
Incident Energy (eV)
38-Sr-83

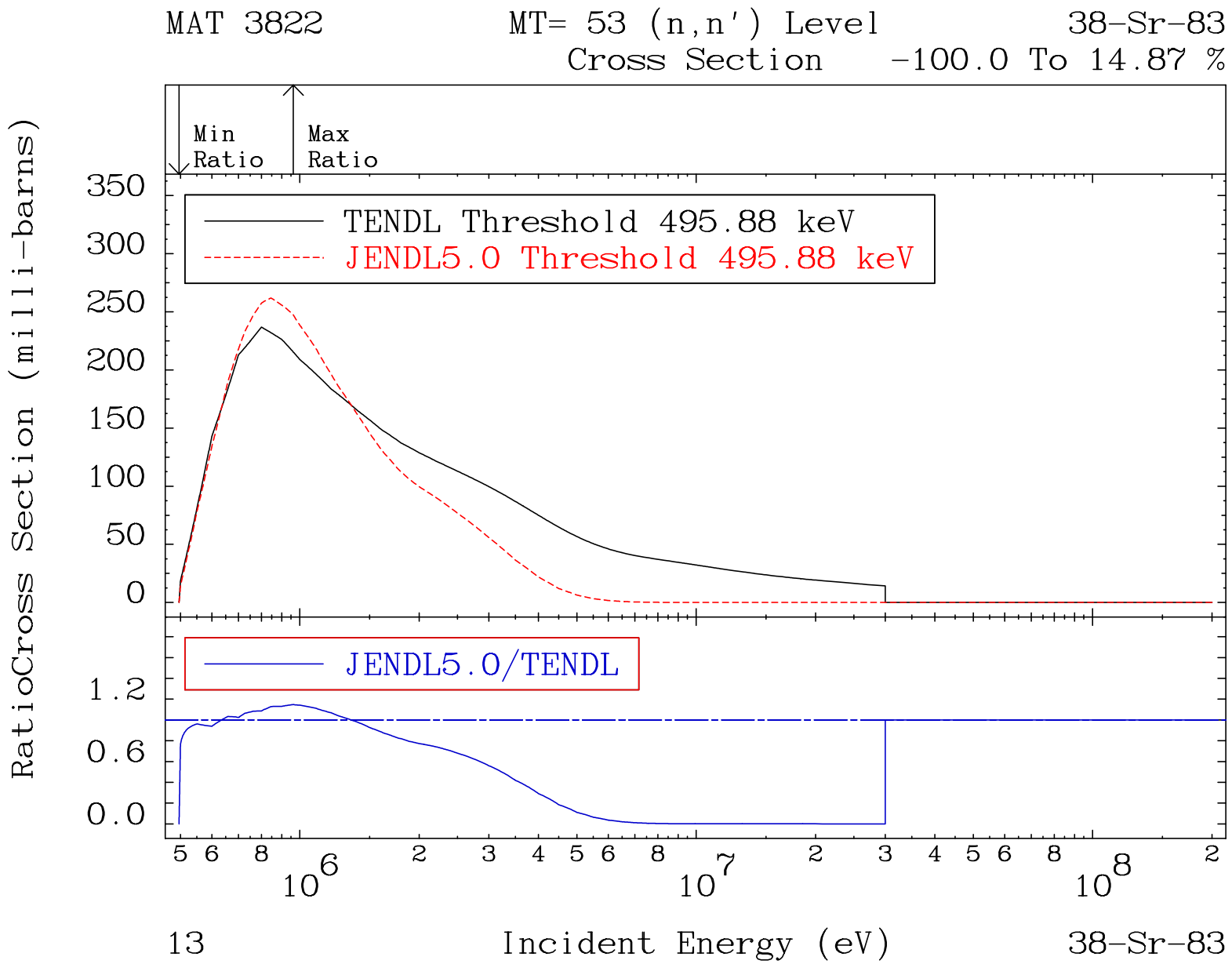

MAT 3822
(n,n') d
Cross Section
38-Sr-83
-100.0 To 81.75 %
Max
Ratio
TENDL Threshold 14.653 MeV
JENDL5.0 Threshold 14.653 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
38-Sr-83

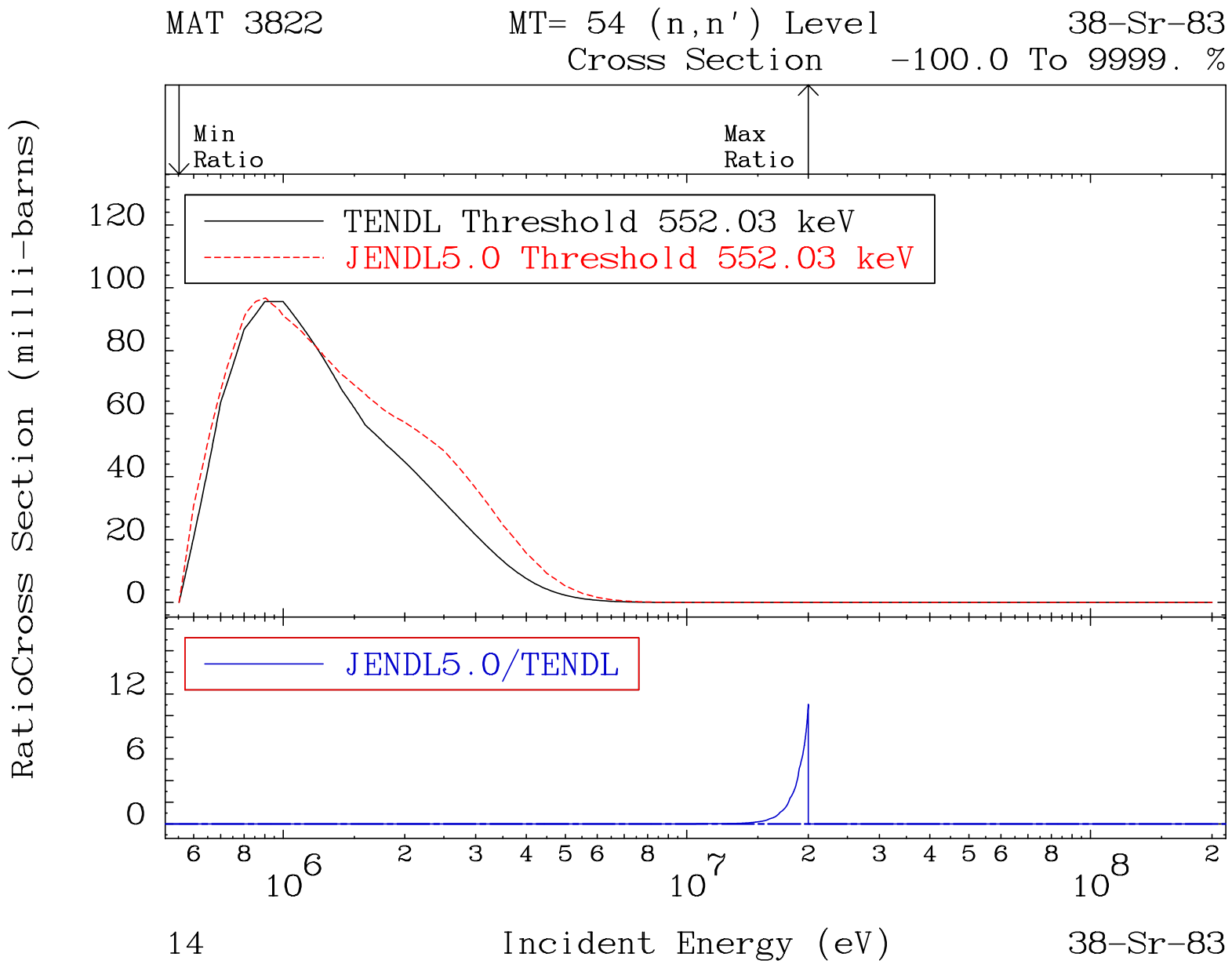

MAT 3822
(n,2n) p
38-Sr-83
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.904 MeV
JENDL5.0 Threshold 16.904 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
38-Sr-83

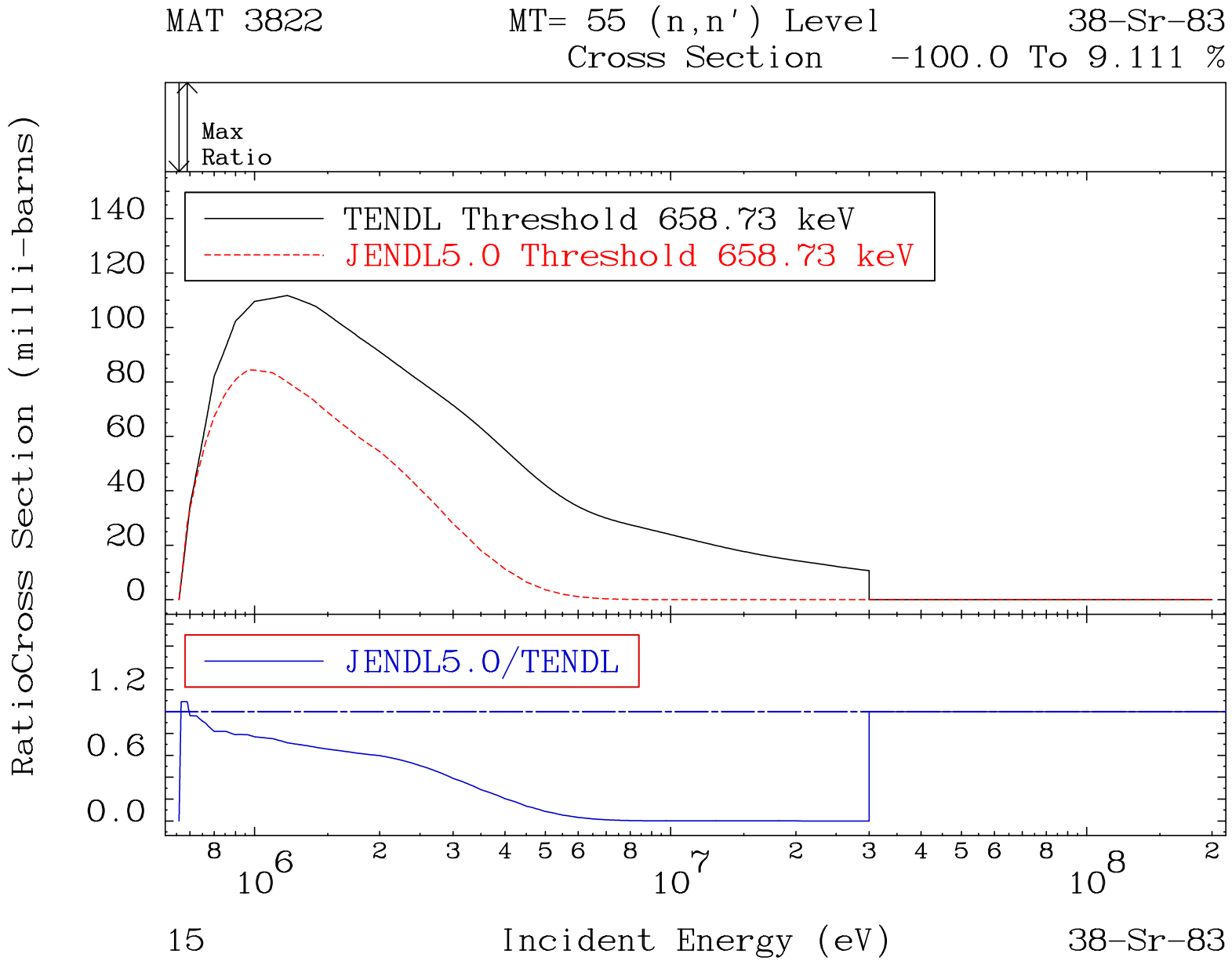

MAT 3822
(n,2n) p
Cross Section
38-Sr-83
-100.0 To 16.56 %
Min Ratio
Max Ratio
TENDL Threshold 13.846 MeV
JENDL5.0 Threshold 13.846 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
38-Sr-83

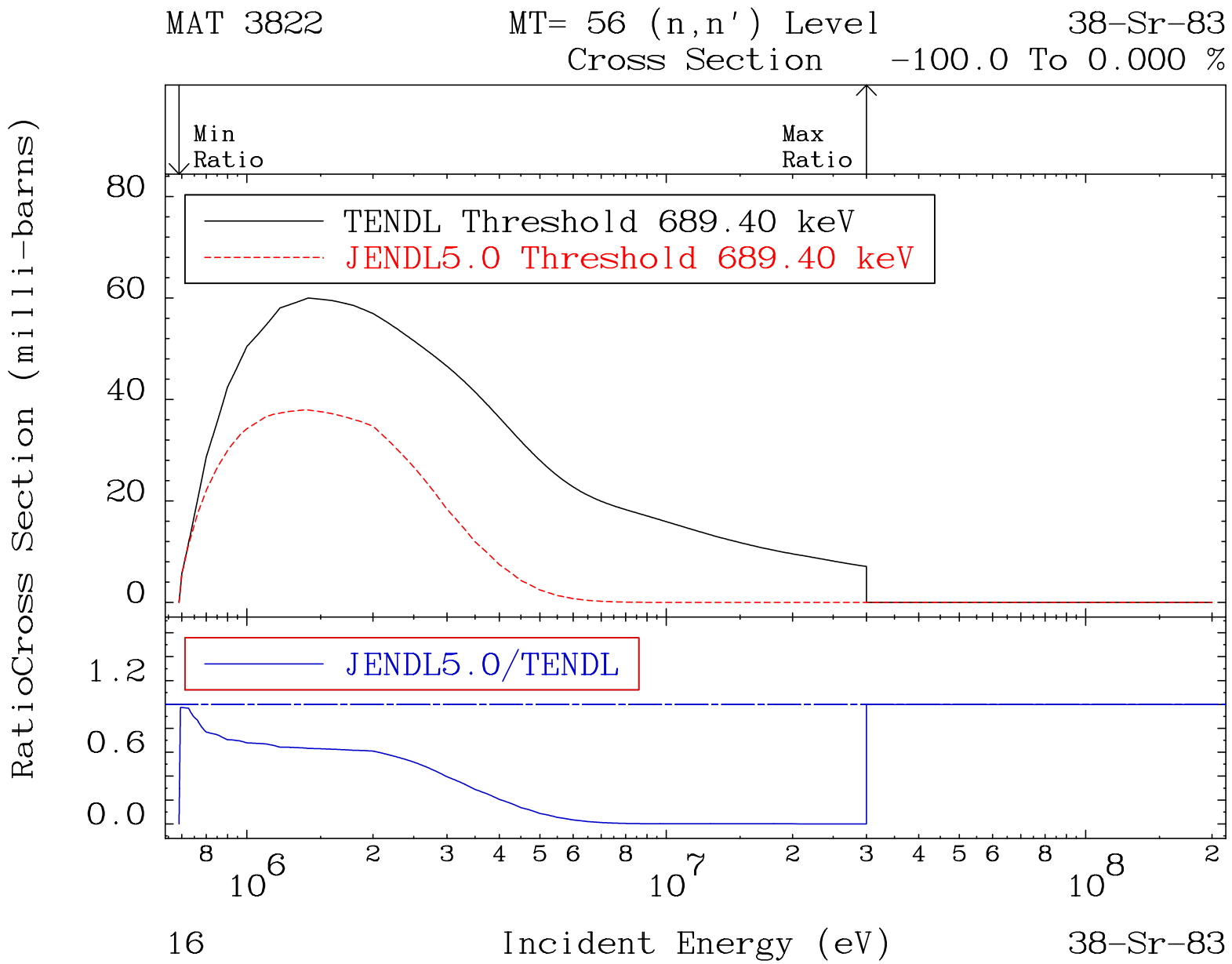

MAT 3822
MT= 51 (n,n') Level
38-Sr-83
Cross Section -100.0 To 131.7 %
Max
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
TENDL Threshold 35.901 keV
JENDL5.0 Threshold 35.901 keV
Cross Section (barns)
JENDL5.0/TENDL
2
0
Ratio
5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
11
Incident Energy (eV)
38-Sr-83

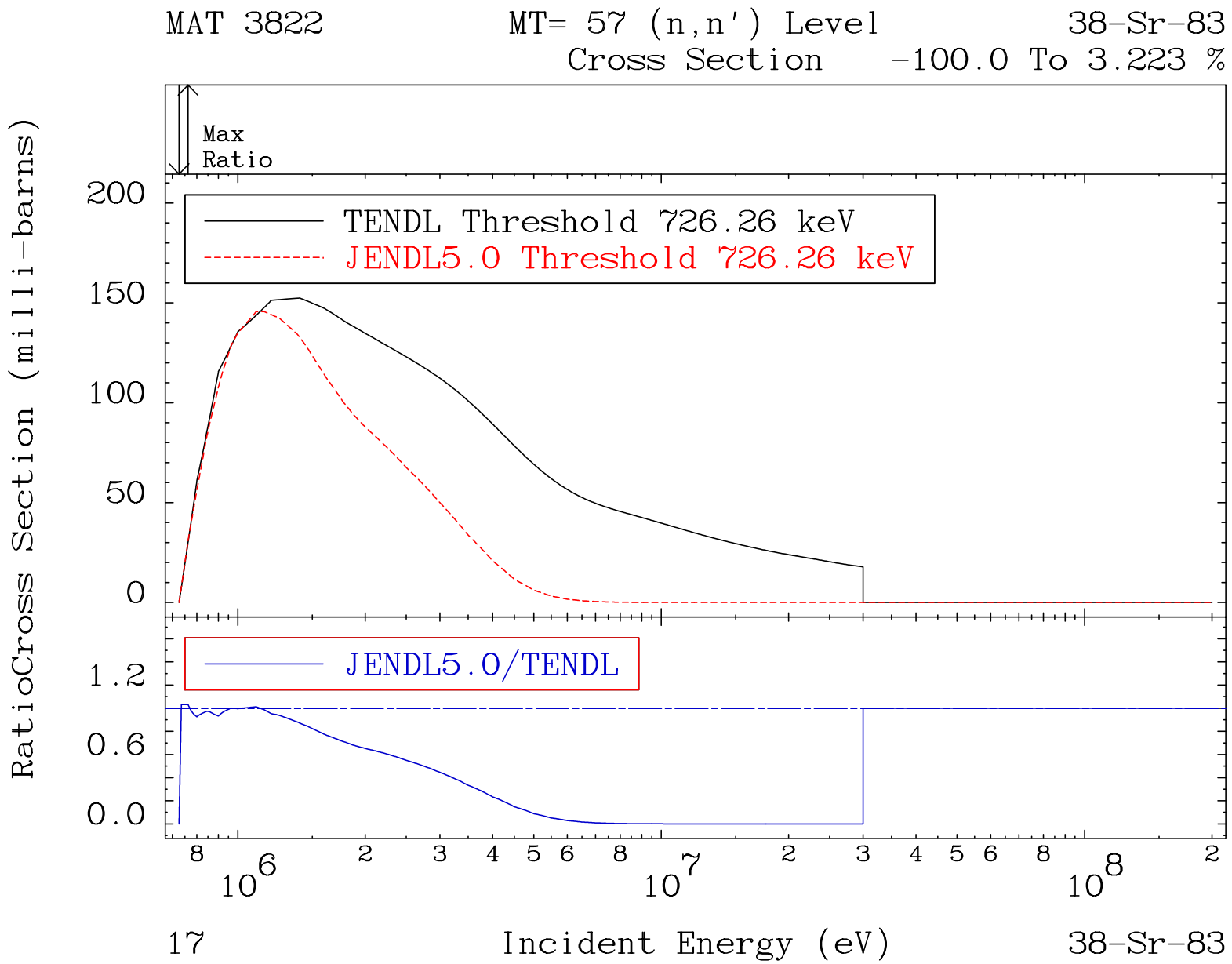

MAT 3822
MT= 52 (n,n') Level
38-Sr-83
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 262.30 keV
JENDL5.0 Threshold 262.30 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
38-Sr-83

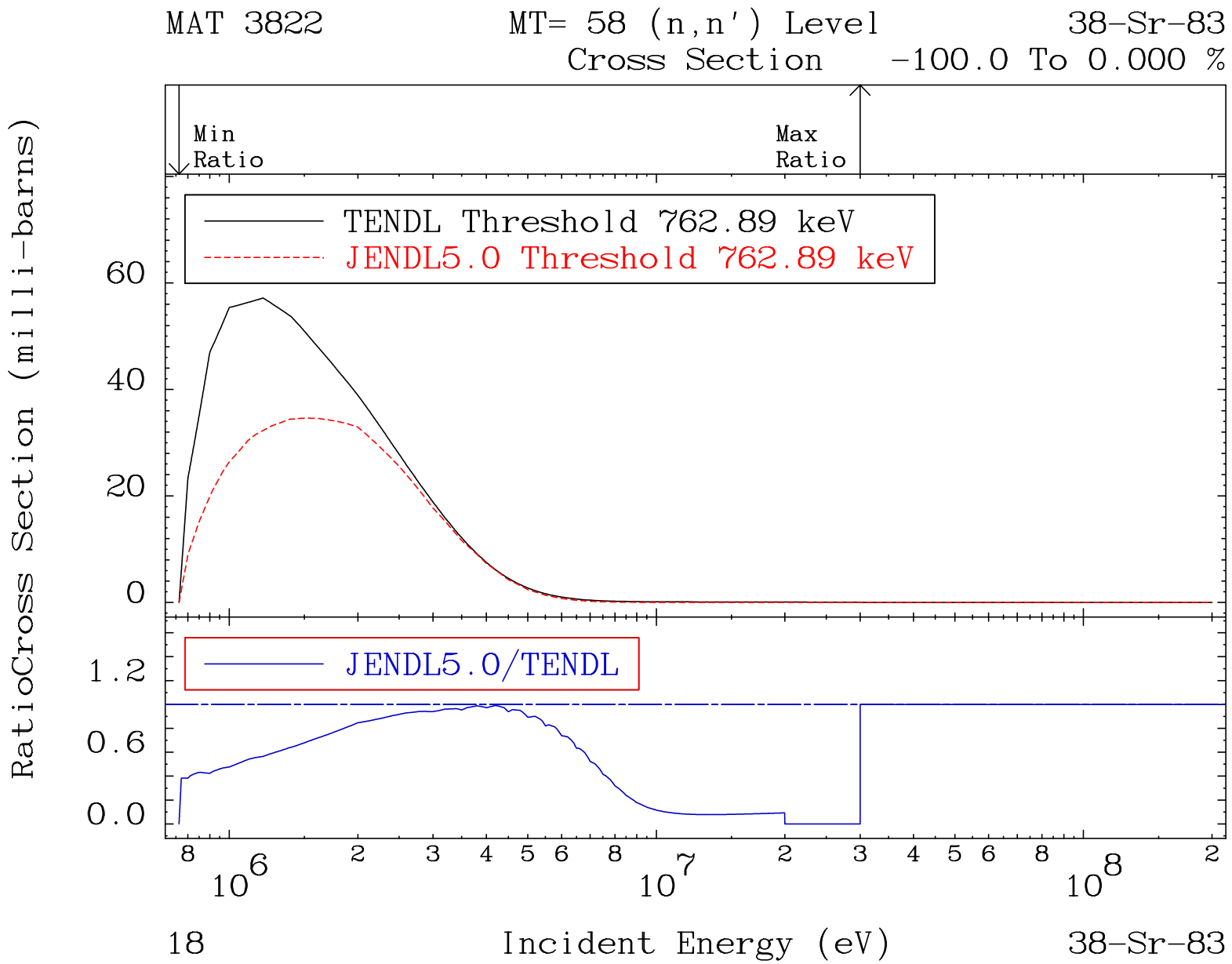

MAT 3822
MT= 53 (n,n') Level
38-Sr-83
Cross Section -100.0 To 14.87 %
Min Ratio
Max Ratio
TENDL Threshold 495.88 keV
JENDL5.0 Threshold 495.88 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.2
0.6
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
38-Sr-83

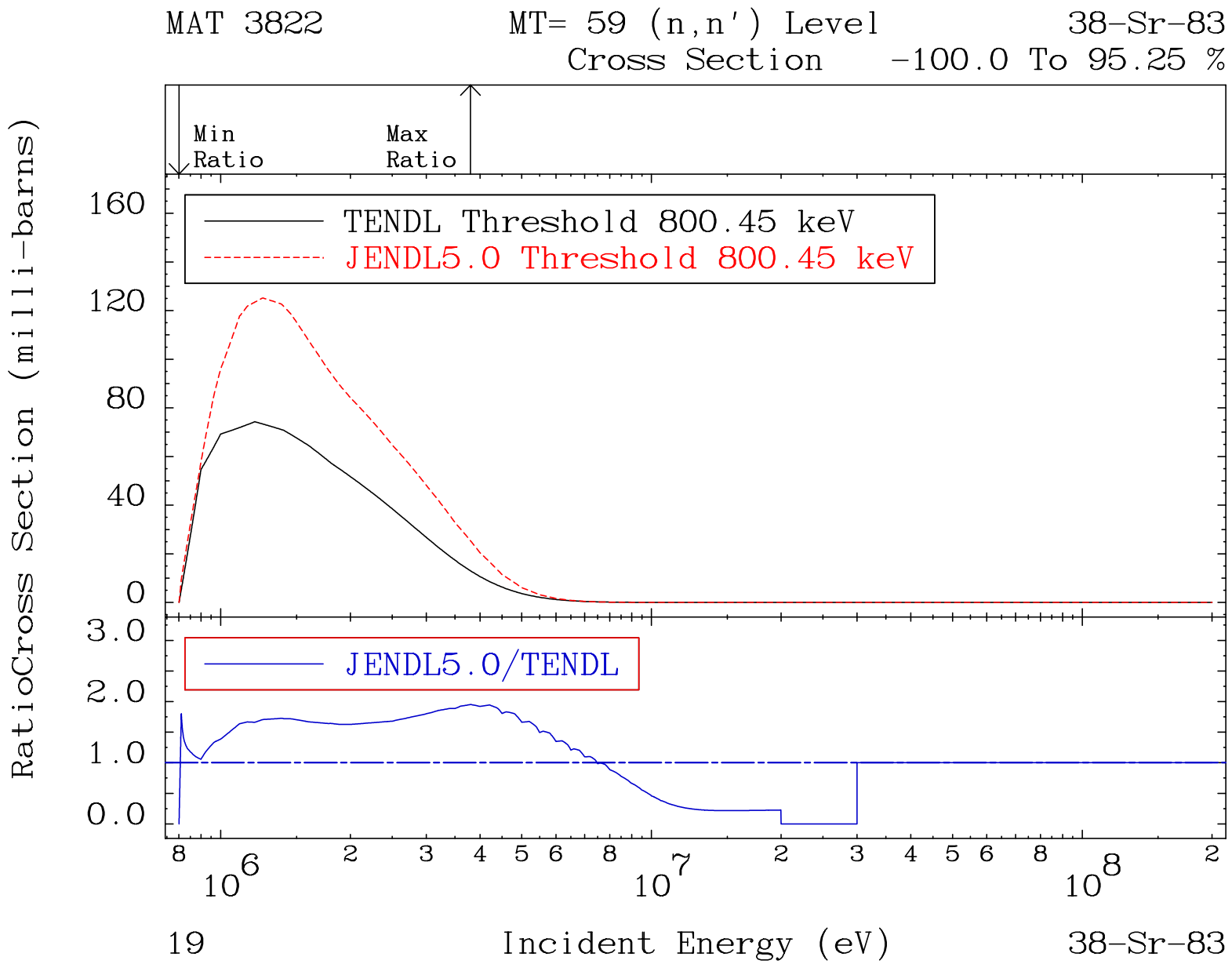

MAT 3822
MT= 54 (n,n') Level
38-Sr-83
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 552.03 keV
JENDL5.0 Threshold 552.03 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
12
6
0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
38-Sr-83

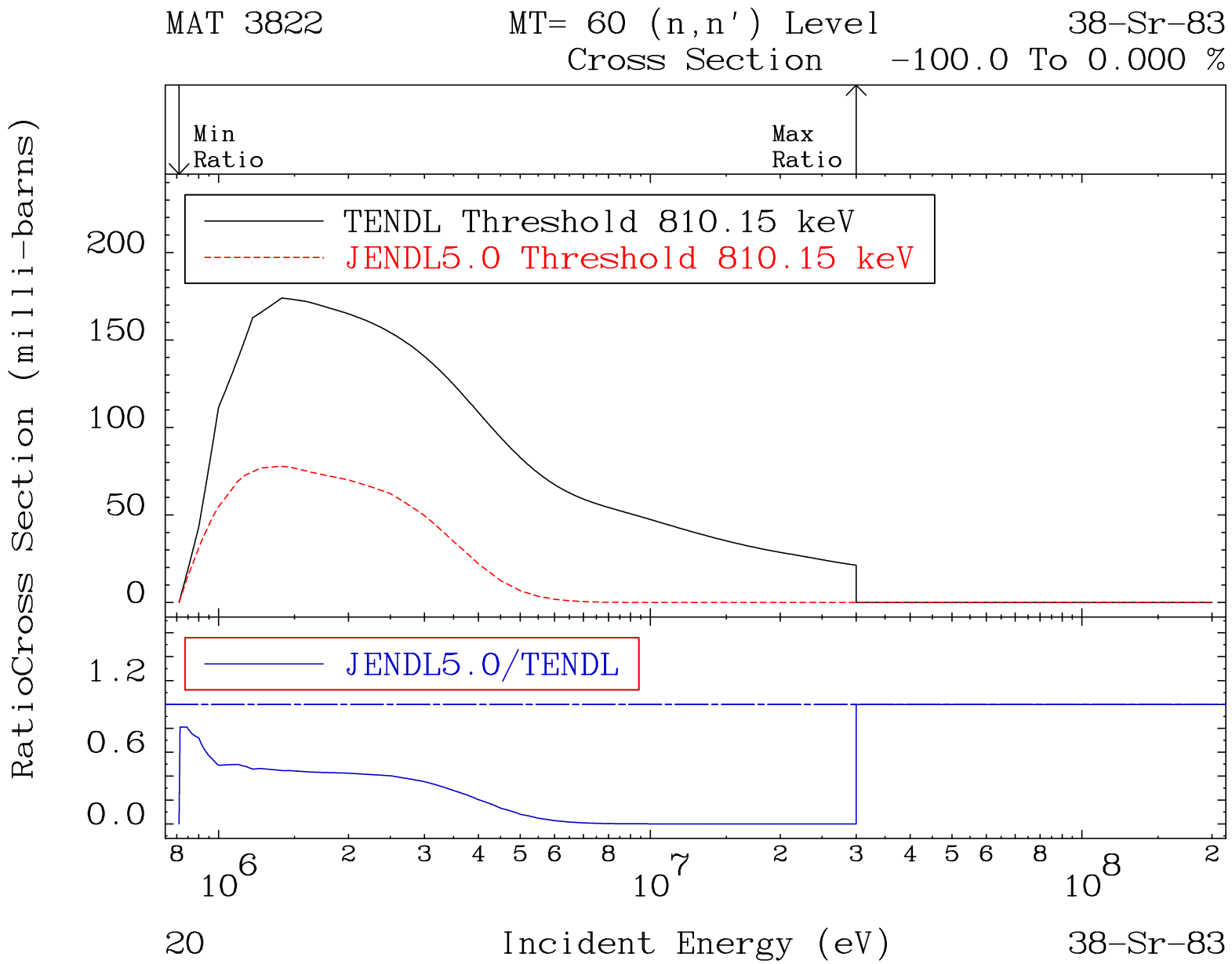

MAT 3822
MT= 55 (n,n') Level
38-Sr-83
Cross Section -100.0 To 9.111 %
Max
Ratio
TENDL Threshold 658.73 keV
JENDL5.0 Threshold 658.73 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
15
Incident Energy (eV)
38-Sr-83

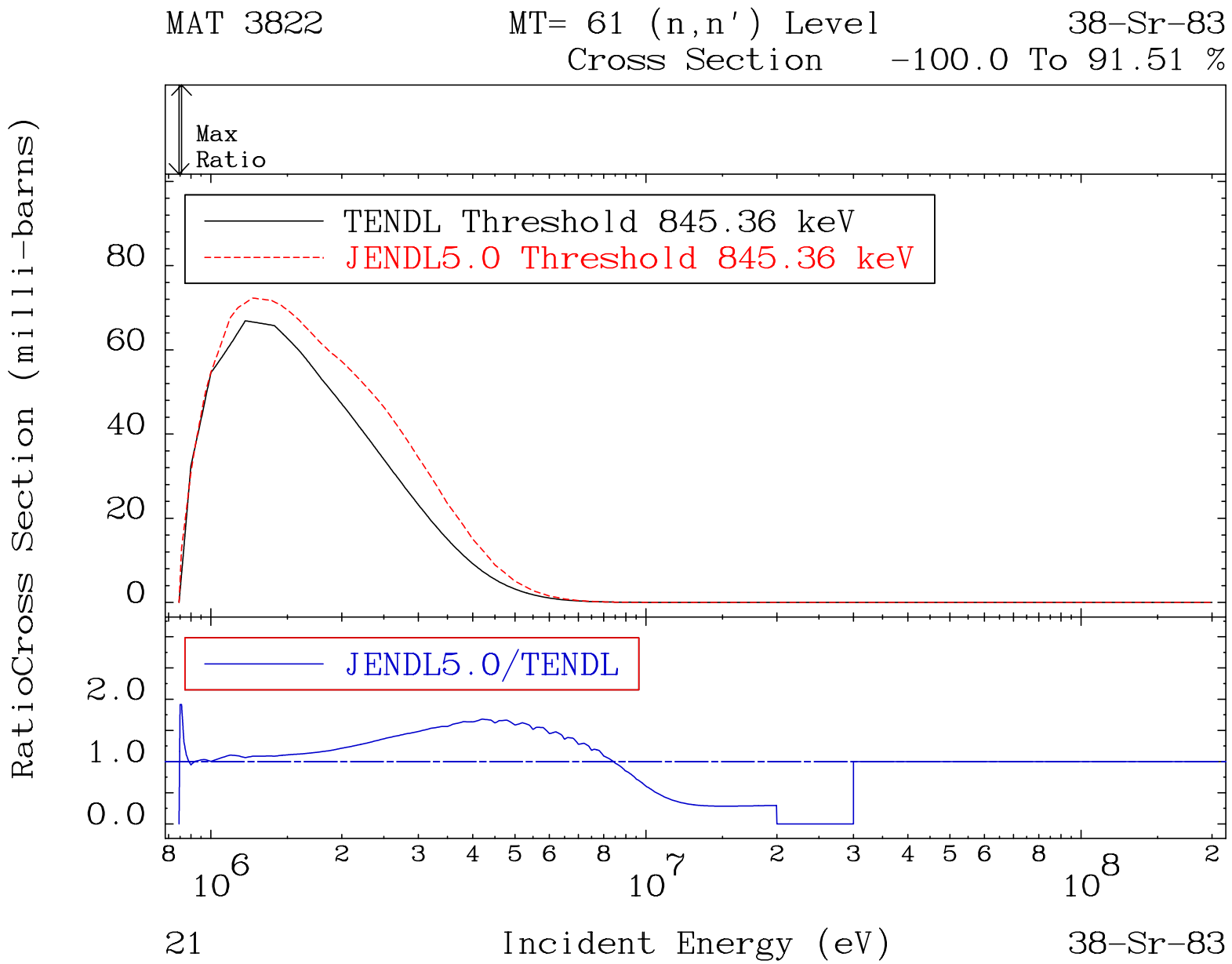

MAT 3822
MT= 56 (n,n') Level
38-Sr-83
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 689.40 keV
JENDL5.0 Threshold 689.40 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
16
Incident Energy (eV)
38-Sr-83

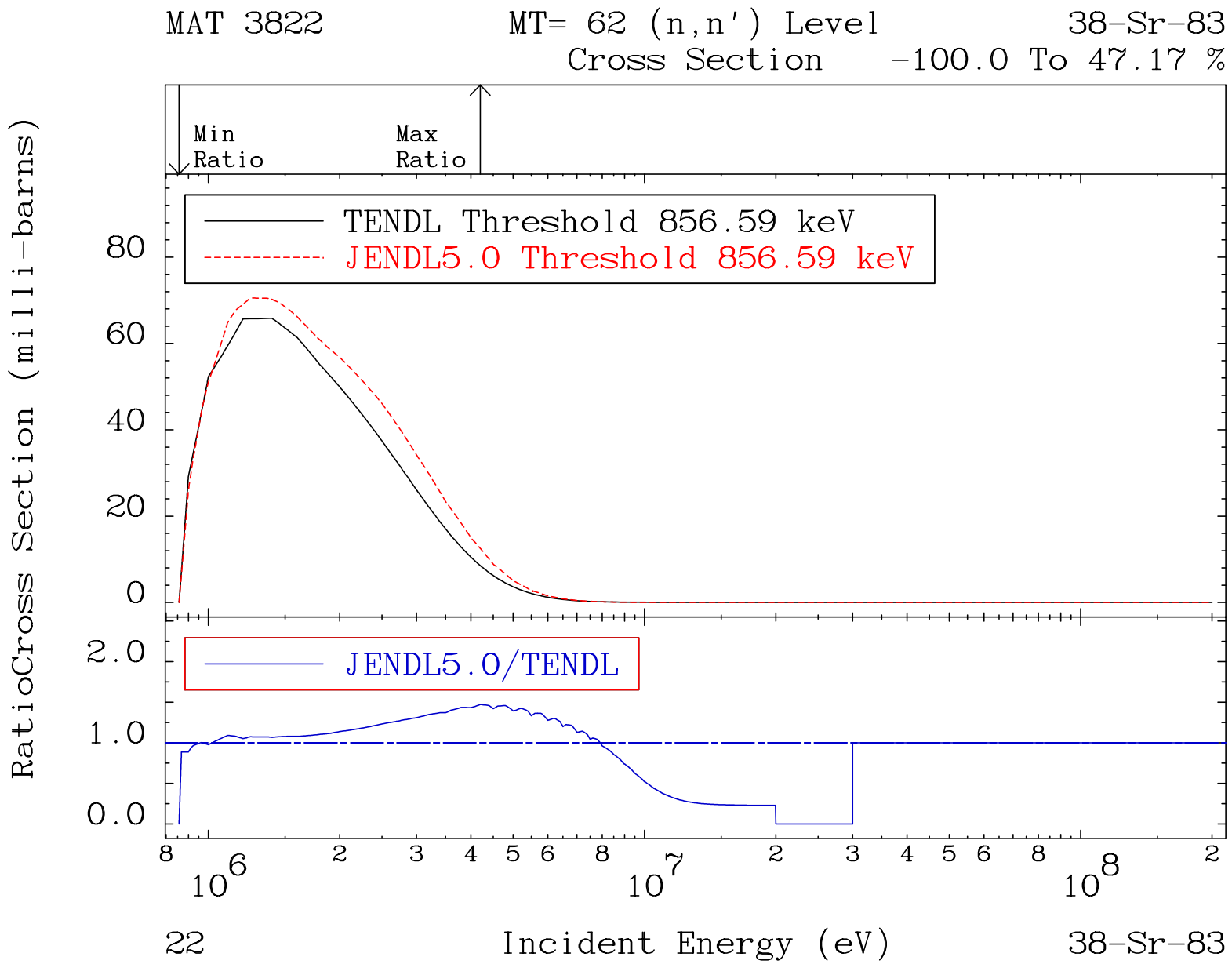

MAT 3822
MT= 57 (n,n') Level
38-Sr-83
Cross Section -100.0 To 3.223 %
Max
Ratio
TENDL Threshold 726.26 keV
JENDL5.0 Threshold 726.26 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
17
Incident Energy (eV)
38-Sr-83

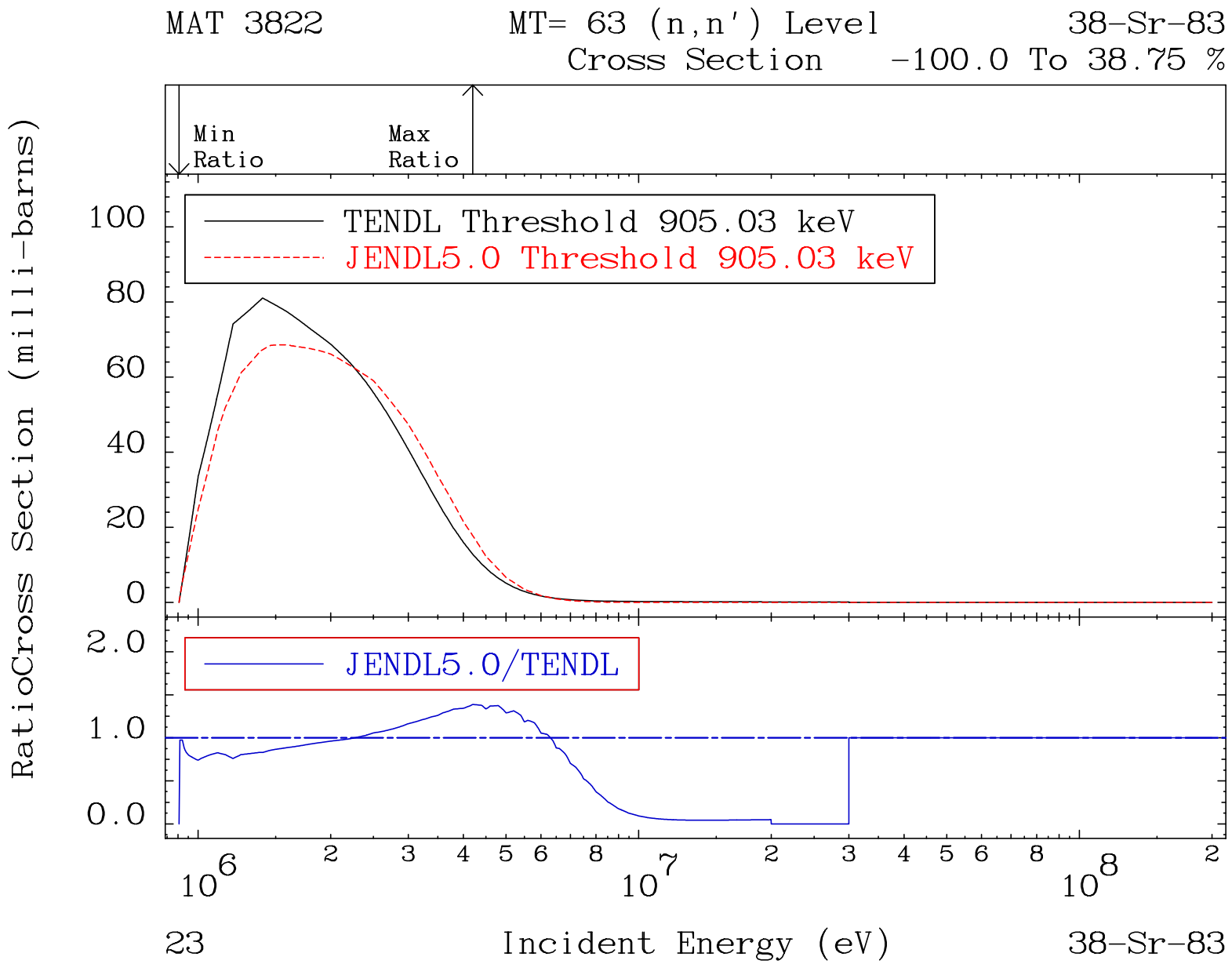

MAT 3822
MT= 58 (n,n') Level
38-Sr-83
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 762.89 keV
JENDL5.0 Threshold 762.89 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
18
Incident Energy (eV)
38-Sr-83

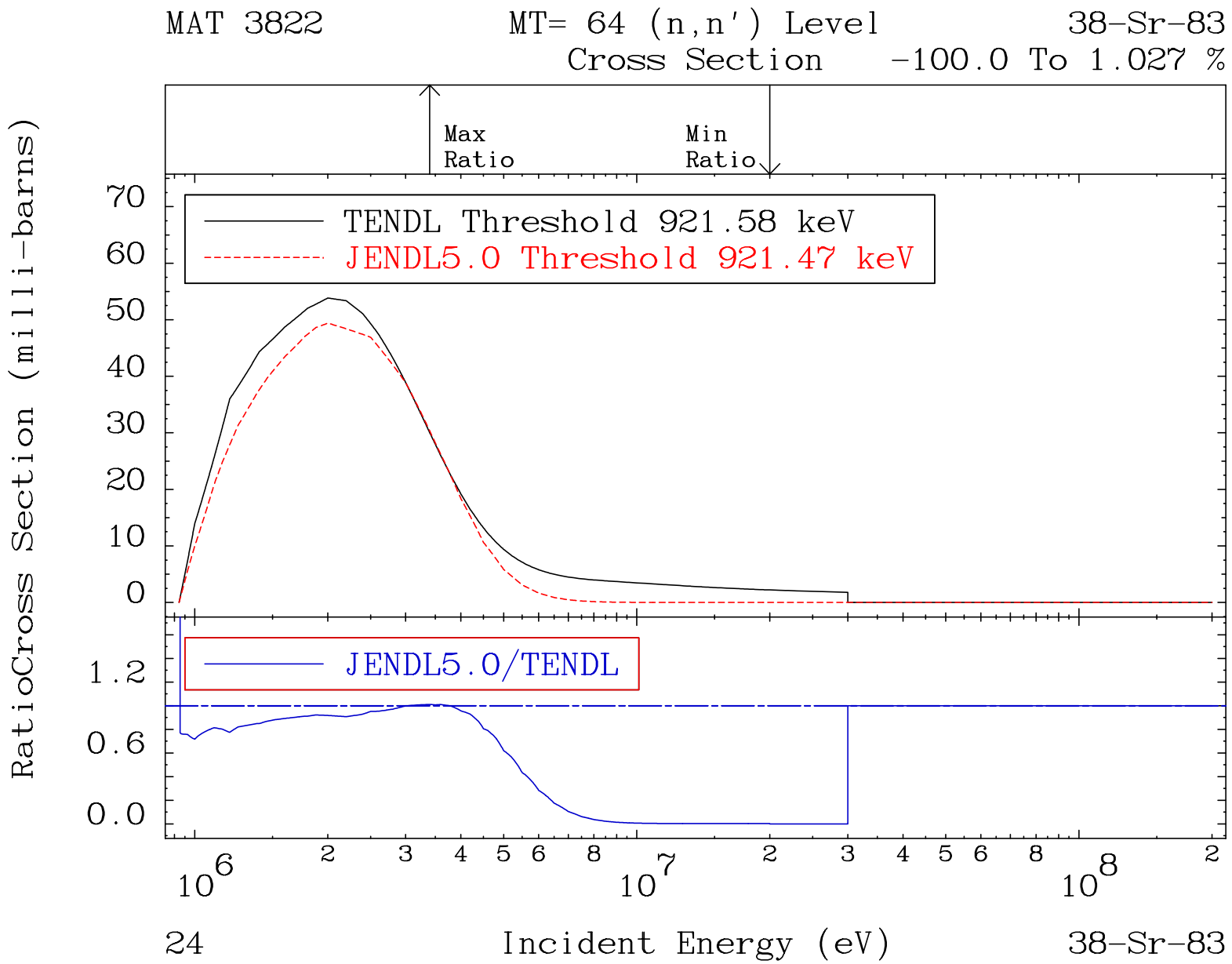

MAT 3822
MT= 59 (n,n') Level
38-Sr-83
Cross Section
-100.0 To 95.25 %
Min Ratio
Max Ratio
TENDL Threshold 800.45 keV
JENDL5.0 Threshold 800.45 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
3.0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
19
Incident Energy (eV)
38-Sr-83

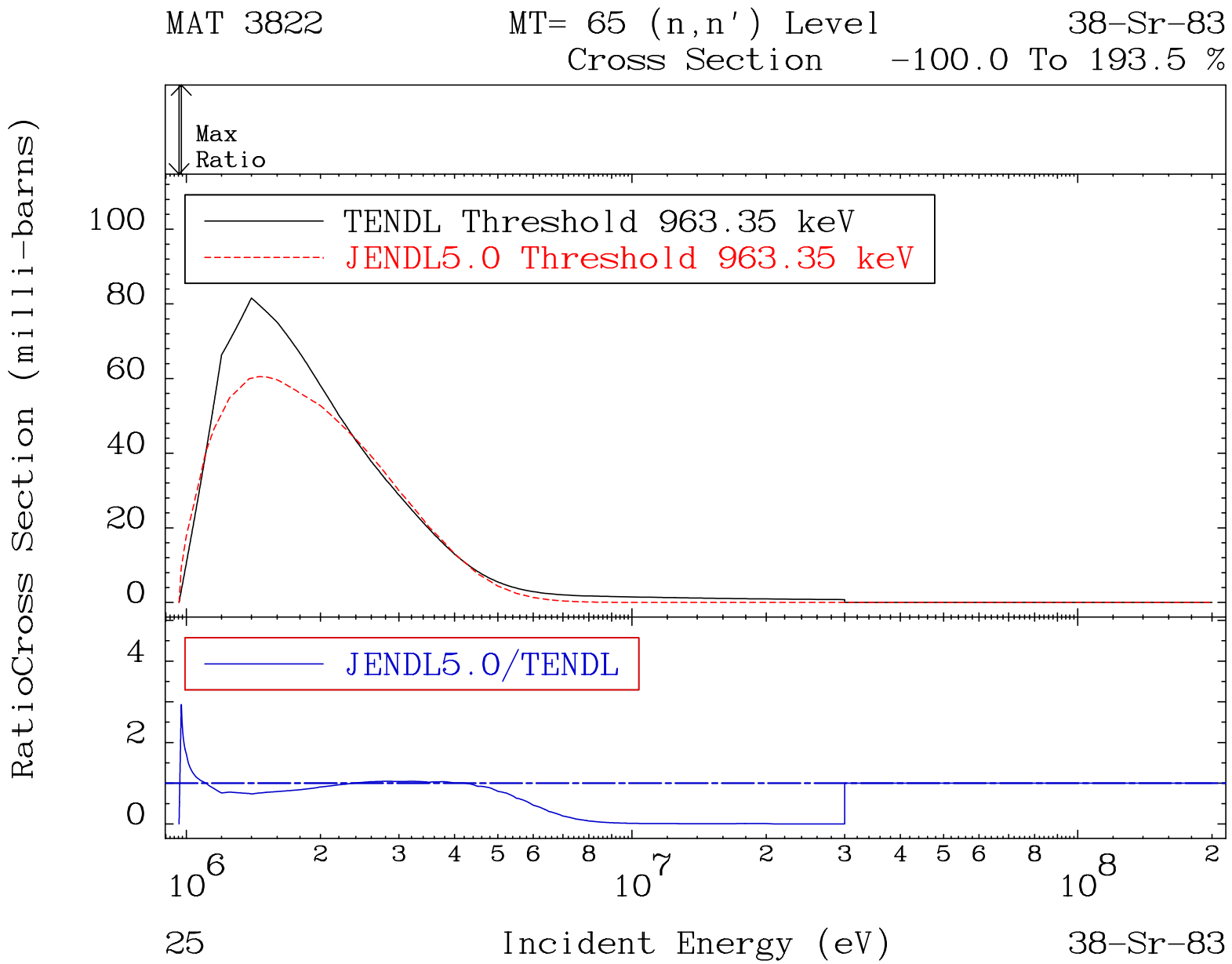

MAT 3822
MT= 60 (n,n') Level
38-Sr-83
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 810.15 keV
JENDL5.0 Threshold 810.15 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
20
Incident Energy (eV)
38-Sr-83

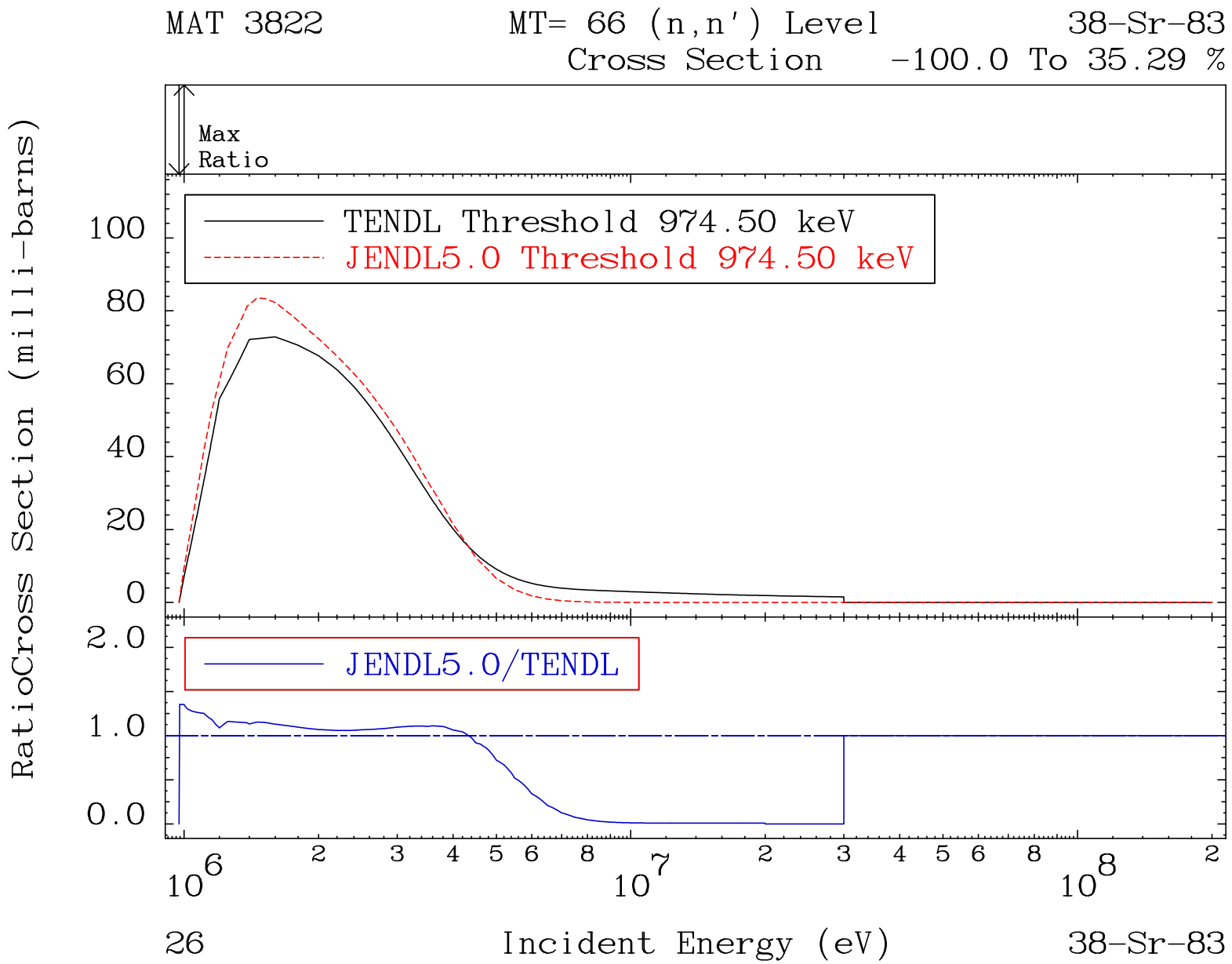

MAT 3822
MT= 61 (n,n') Level
38-Sr-83
Cross Section -100.0 To 91.51 %
Max
Ratio
TENDL Threshold 845.36 keV
JENDL5.0 Threshold 845.36 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
21
Incident Energy (eV)
38-Sr-83

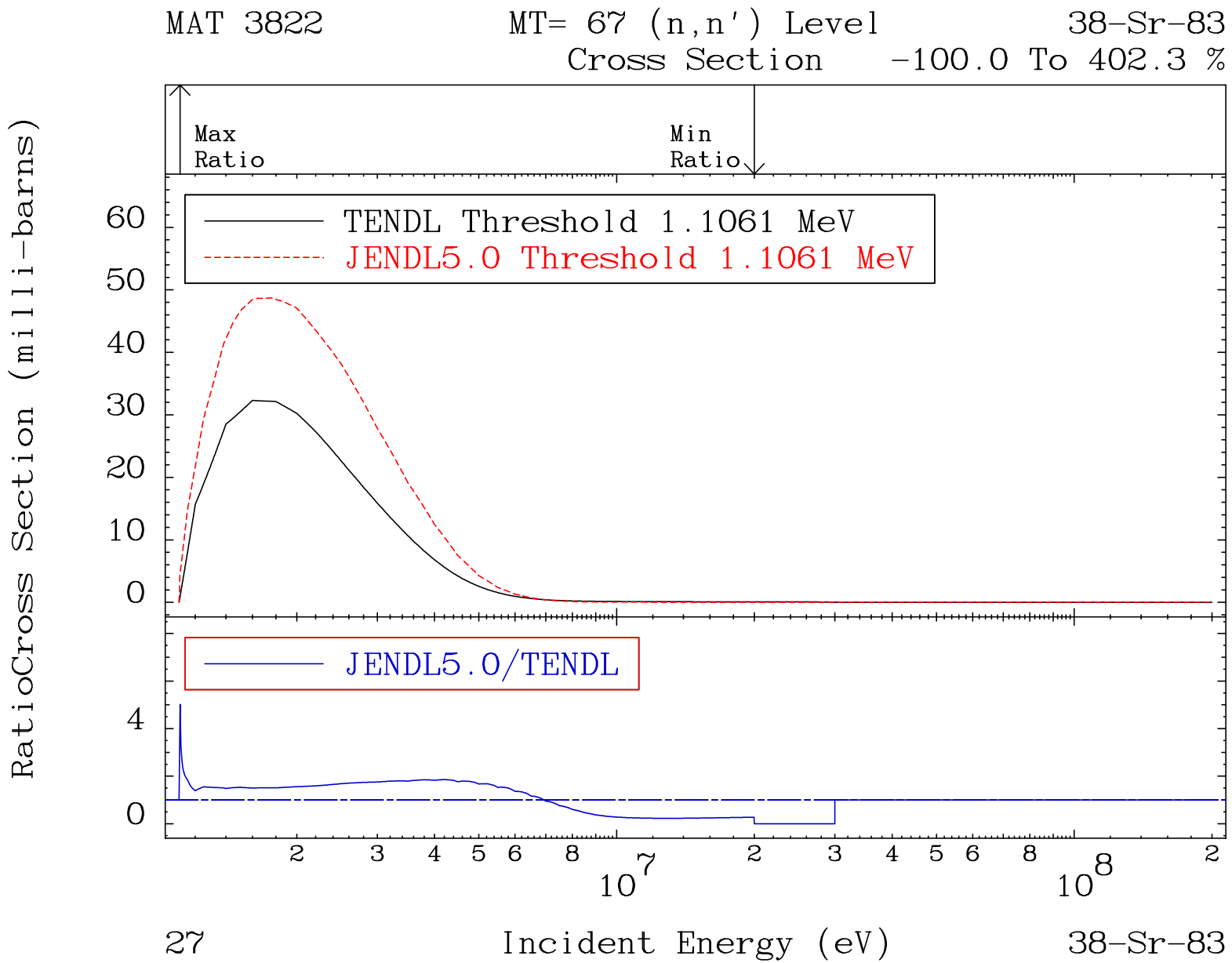

MAT 3822
MT= 62 (n,n') Level
38-Sr-83
Cross Section
-100.0 To 47.17 %
Min Ratio
Max Ratio
TENDL Threshold 856.59 keV
JENDL5.0 Threshold 856.59 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
22
Incident Energy (eV)
38-Sr-83

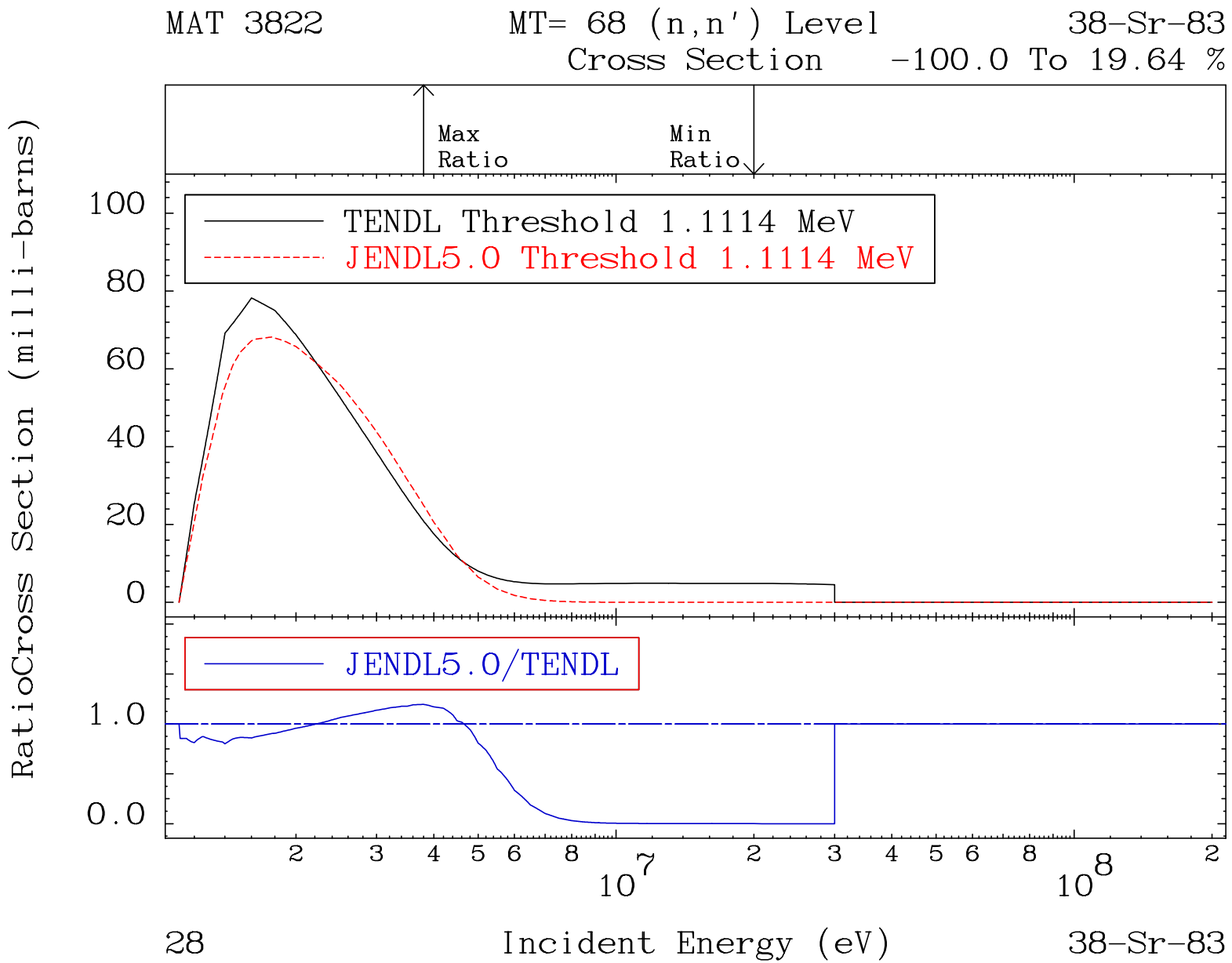

MAT 3822
MT= 63 (n,n') Level
38-Sr-83
Cross Section
-100.0 To 38.75 %
Min Ratio
Max Ratio
TENDL Threshold 905.03 keV
JENDL5.0 Threshold 905.03 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
23
Incident Energy (eV)
38-Sr-83

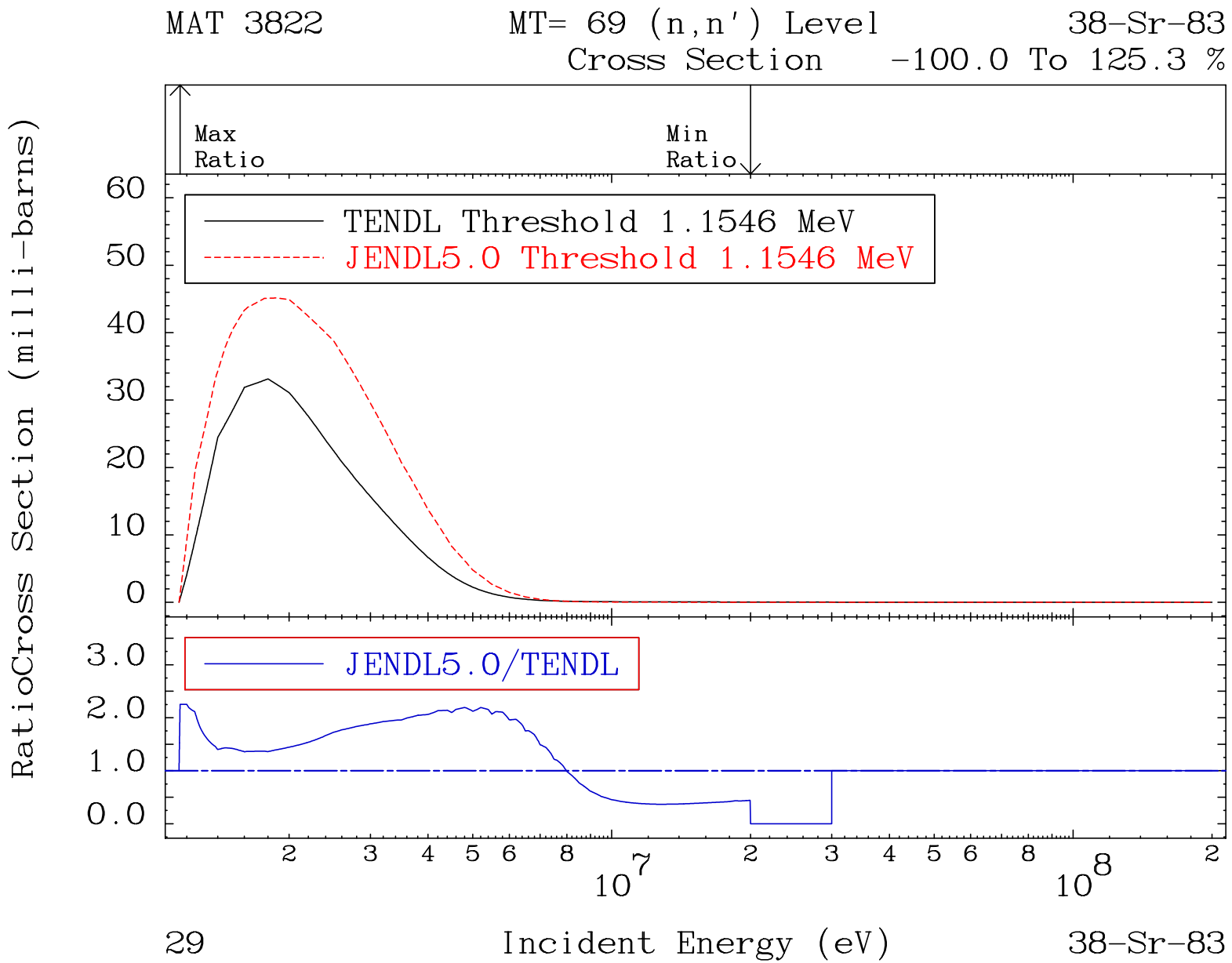

MAT 3822
MT= 64 (n,n') Level
38-Sr-83
Cross Section -100.0 To 1.027 %
Max Ratio
Min Ratio
TENDL Threshold 921.58 keV
JENDL5.0 Threshold 921.47 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
24
Incident Energy (eV)
38-Sr-83

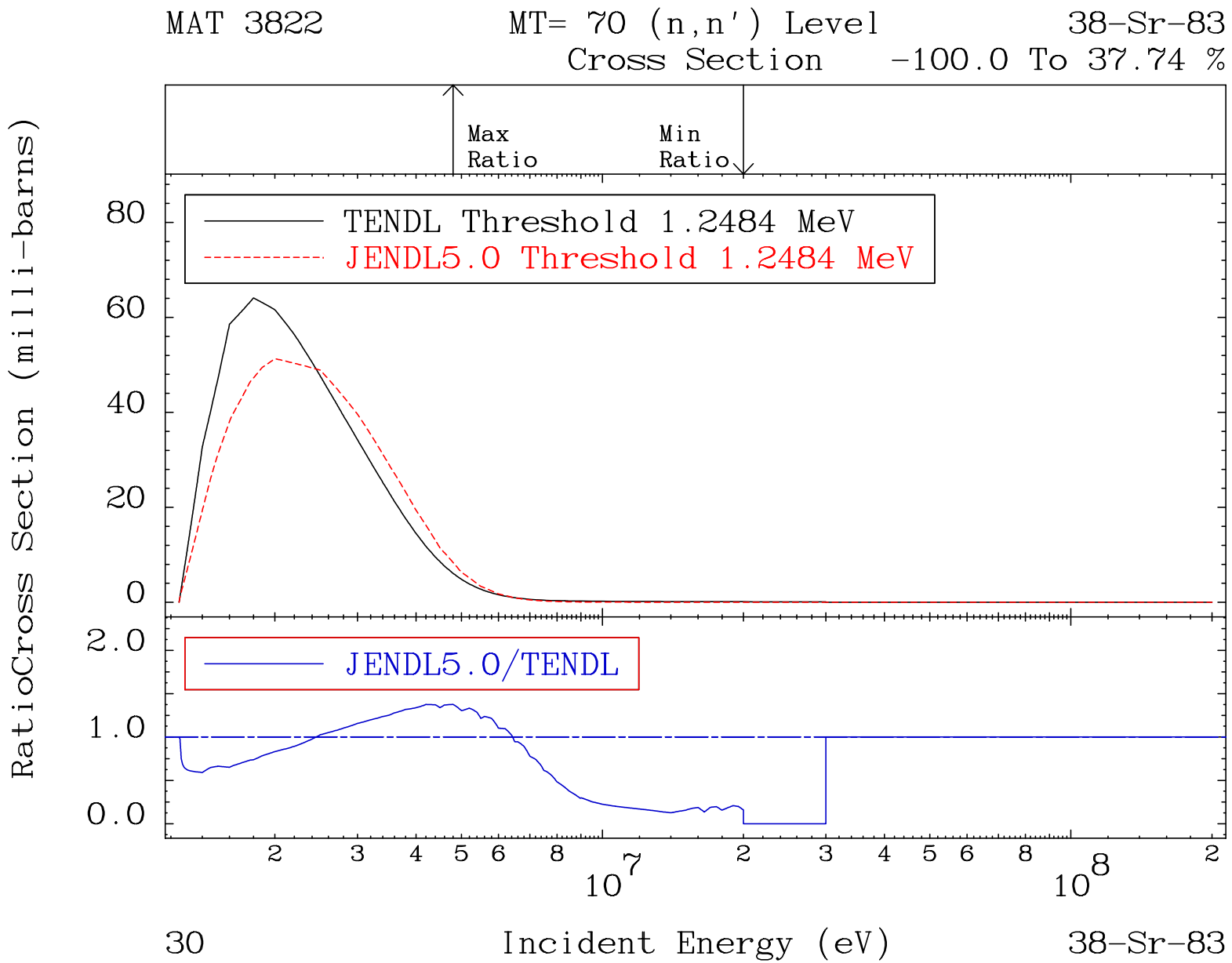

MAT 3822
MT= 65 (n,n') Level
38-Sr-83
Cross Section -100.0 To 193.5 %
Max
Ratio
TENDL Threshold 963.35 keV
JENDL5.0 Threshold 963.35 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
2
0
10^6
10^7
10^8
Incident Energy (eV)
25
38-Sr-83

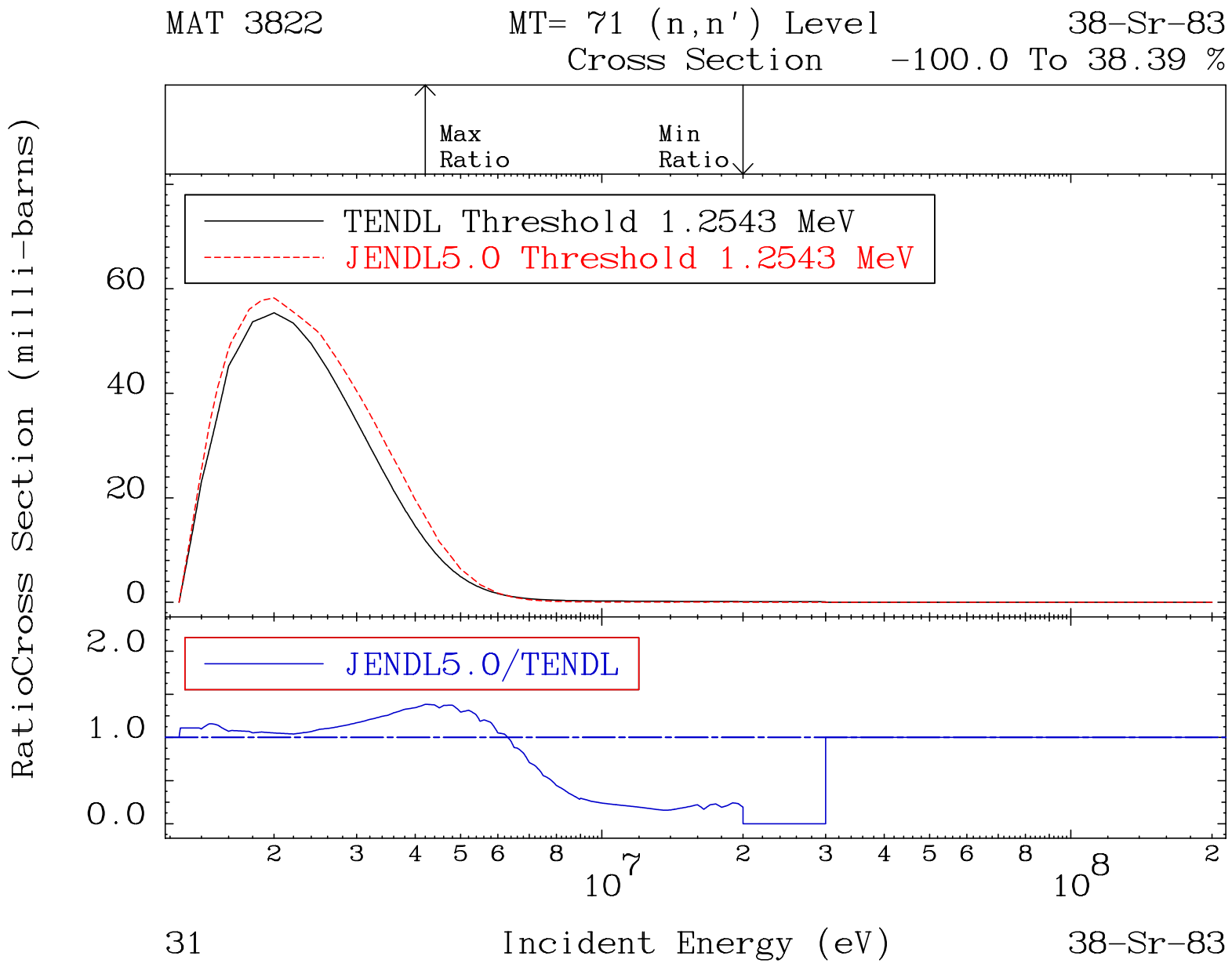

MAT 3822
MT= 66 (n,n') Level
38-Sr-83
Cross Section -100.0 To 35.29 %
Max
Ratio
TENDL Threshold 974.50 keV
JENDL5.0 Threshold 974.50 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
26
Incident Energy (eV)
38-Sr-83

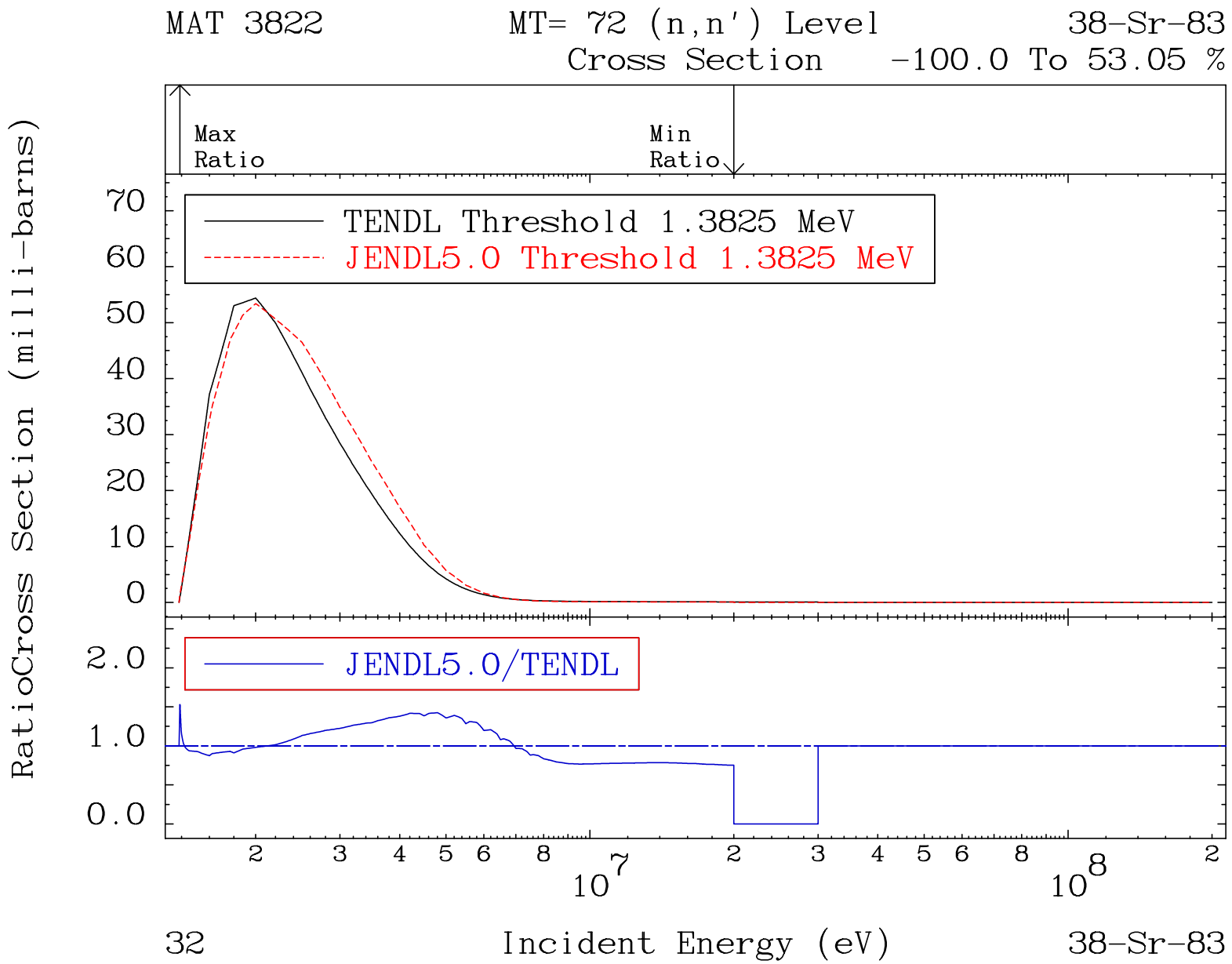

MAT 3822
MT= 67 (n,n') Level
38-Sr-83
Cross Section -100.0 To 402.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.1061 MeV
JENDL5.0 Threshold 1.1061 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
38-Sr-83

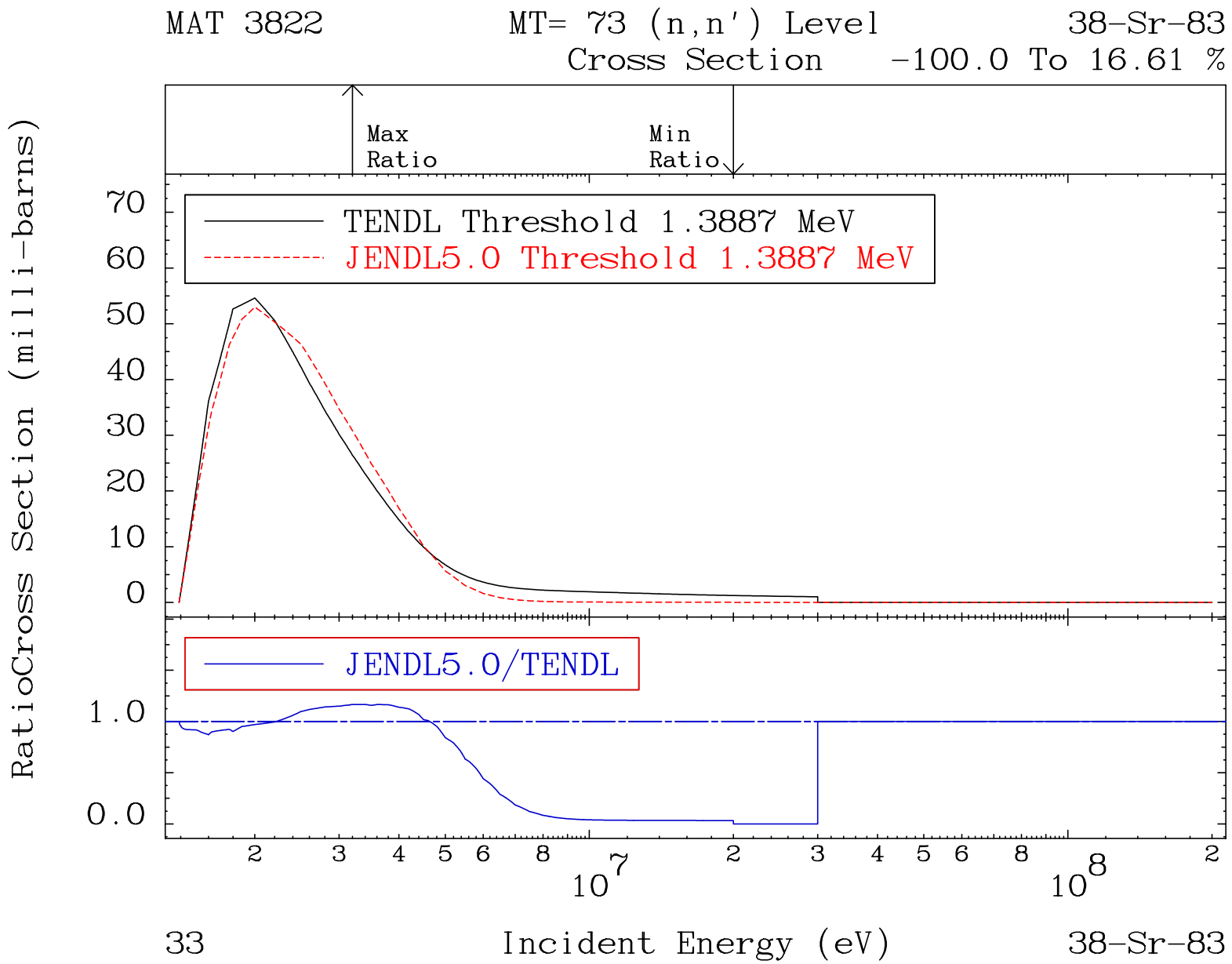

MAT 3822
MT= 68 (n,n') Level
38-Sr-83
Cross Section -100.0 To 19.64 %
Max Ratio
Min Ratio
TENDL Threshold 1.1114 MeV
JENDL5.0 Threshold 1.1114 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
28
Incident Energy (eV)
38-Sr-83

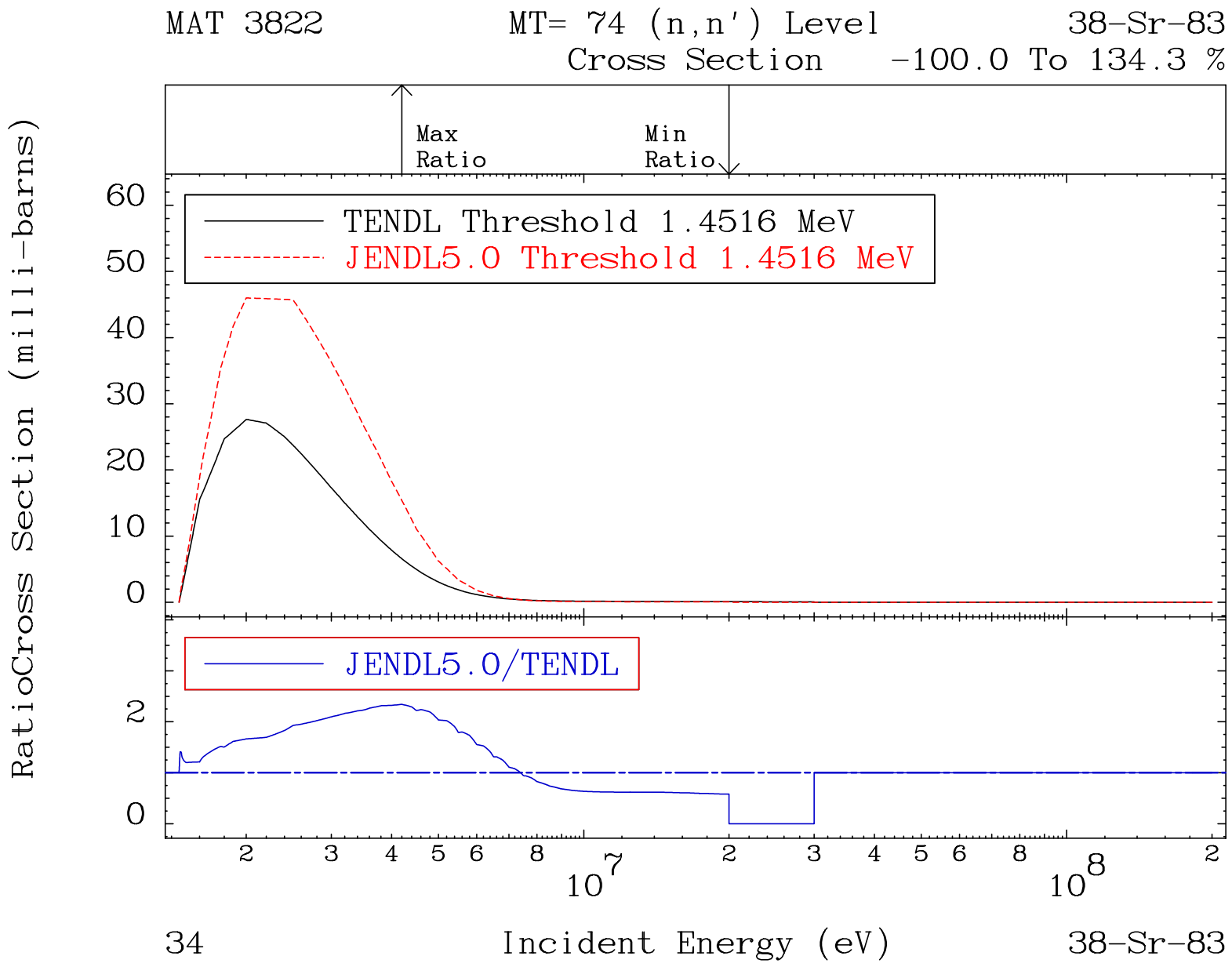

MAT 3822
MT= 69 (n,n') Level
38-Sr-83
Cross Section -100.0 To 125.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.1546 MeV
JENDL5.0 Threshold 1.1546 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
29
Incident Energy (eV)
38-Sr-83

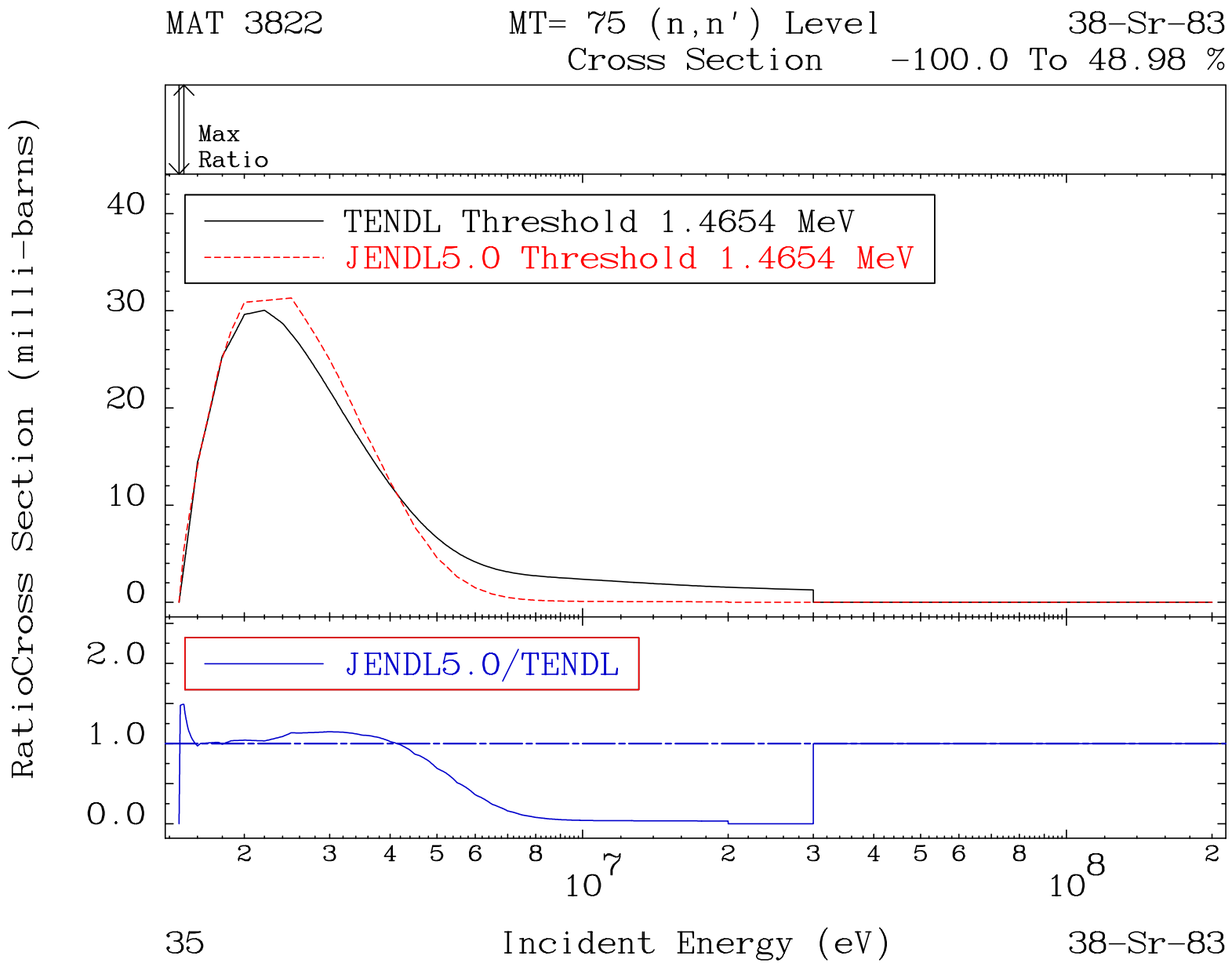

MAT 3822
MT= 70 (n,n') Level
38-Sr-83
Cross Section -100.0 To 37.74 %
Max Ratio
Min Ratio
TENDL Threshold 1.2484 MeV
JENDL5.0 Threshold 1.2484 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
30
Incident Energy (eV)
38-Sr-83

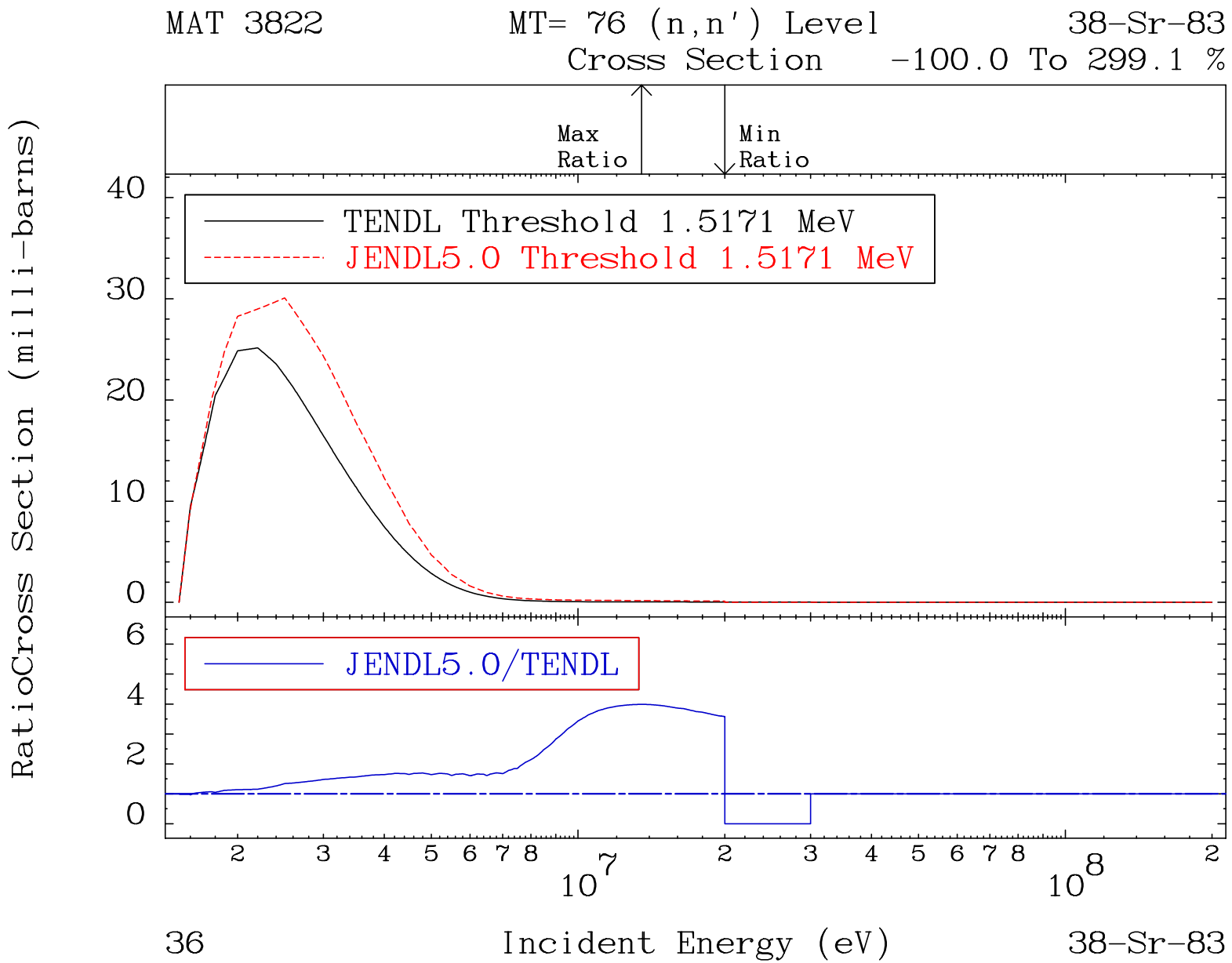

MAT 3822
MT= 71 (n,n') Level
38-Sr-83
Cross Section -100.0 To 38.39 %
Max Ratio
Min Ratio
TENDL Threshold 1.2543 MeV
JENDL5.0 Threshold 1.2543 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
31
Incident Energy (eV)
38-Sr-83

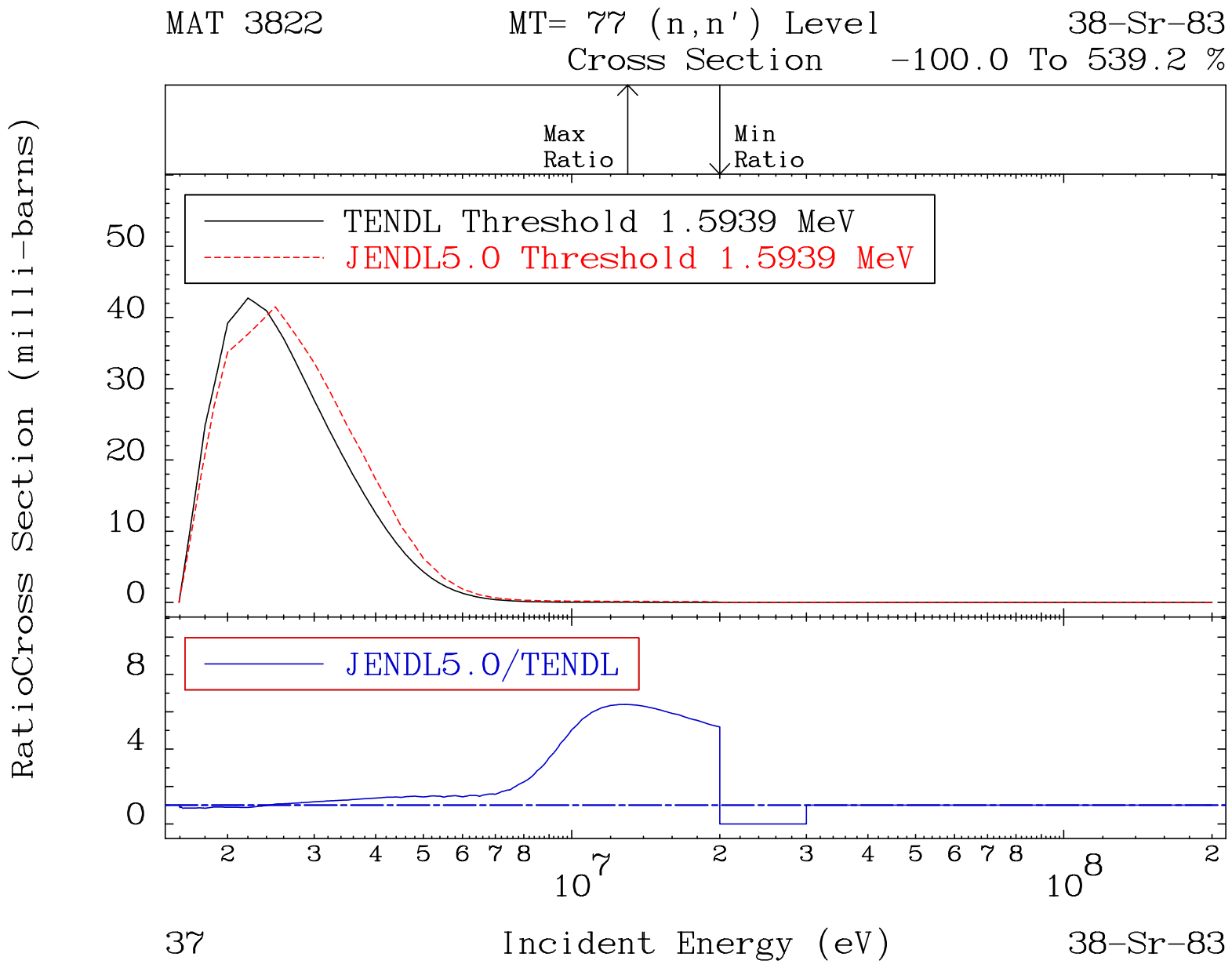

MAT 3822
MT= 72 (n,n') Level
38-Sr-83
Cross Section -100.0 To 53.05 %
Max Ratio
Min Ratio
TENDL Threshold 1.3825 MeV
JENDL5.0 Threshold 1.3825 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
32
Incident Energy (eV)
38-Sr-83

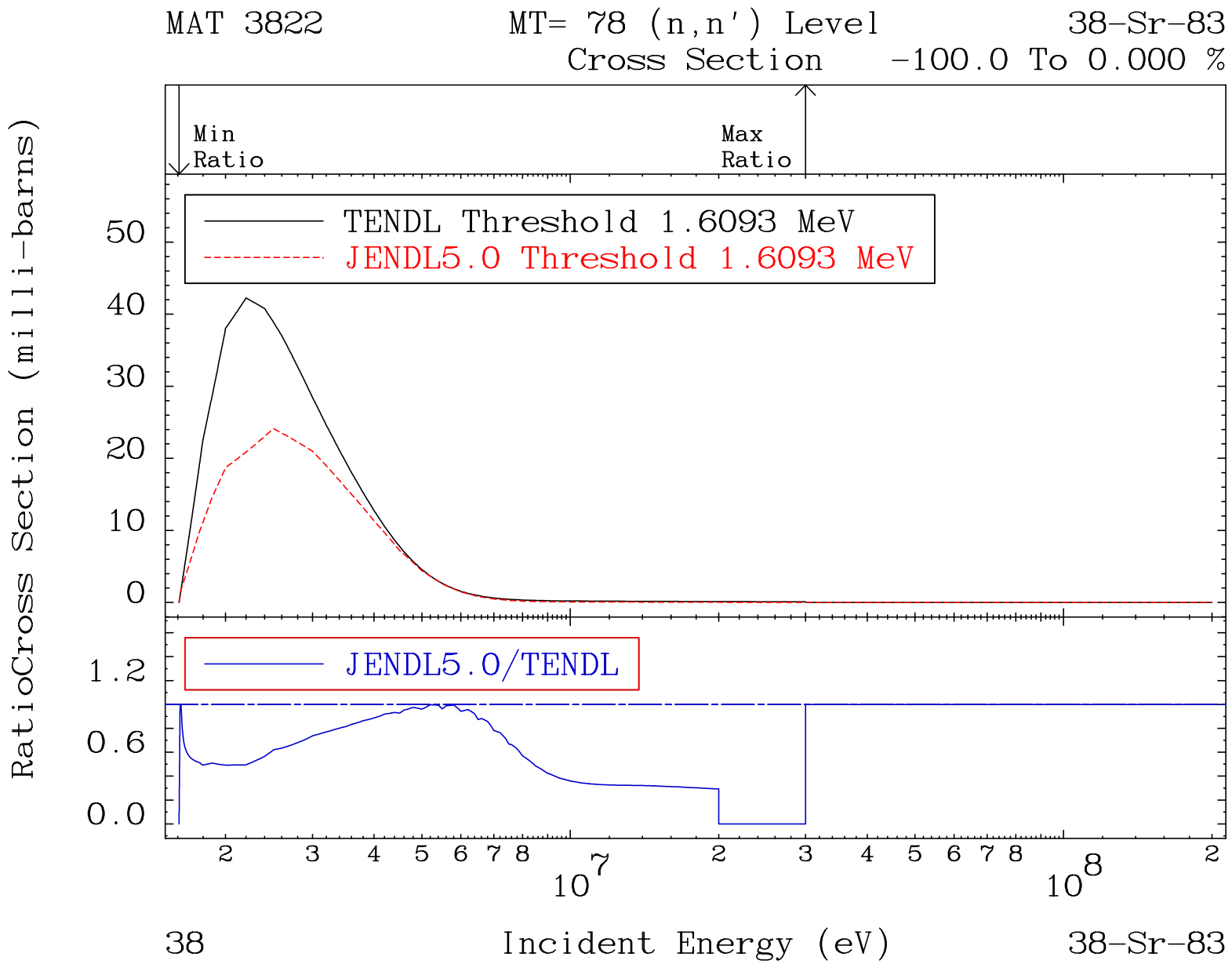

MAT 3822
MT= 73 (n,n') Level
38-Sr-83
Cross Section -100.0 To 16.61 %
Max Ratio
Min Ratio
TENDL Threshold 1.3887 MeV
JENDL5.0 Threshold 1.3887 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
33
Incident Energy (eV)
38-Sr-83

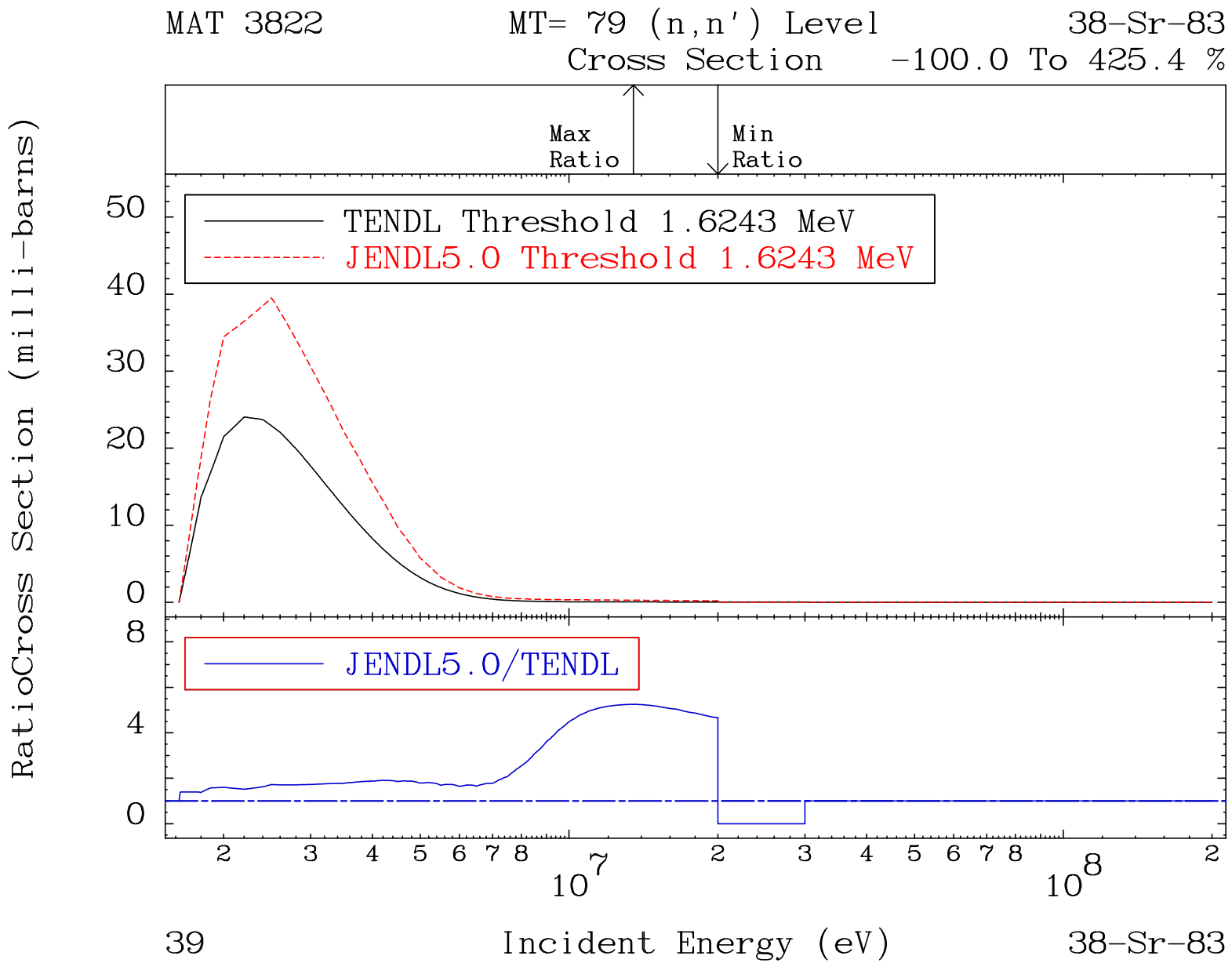

MAT 3822
MT= 74 (n,n') Level
38-Sr-83
Cross Section -100.0 To 134.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.4516 MeV
JENDL5.0 Threshold 1.4516 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
34
Incident Energy (eV)
38-Sr-83

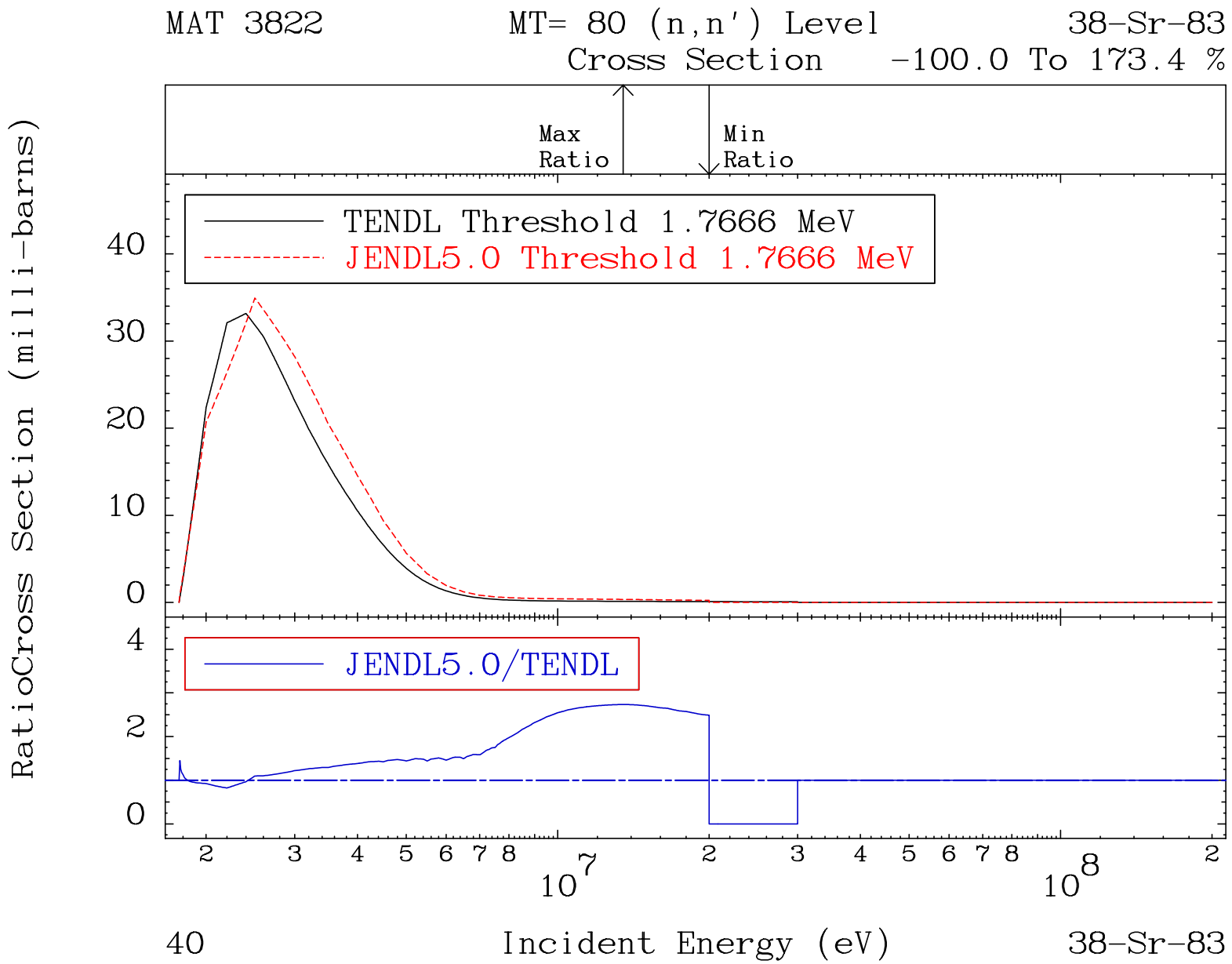

MAT 3822
MT= 75 (n,n') Level
38-Sr-83
Cross Section -100.0 To 48.98 %
Max
Ratio
TENDL Threshold 1.4654 MeV
JENDL5.0 Threshold 1.4654 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
35
Incident Energy (eV)
38-Sr-83

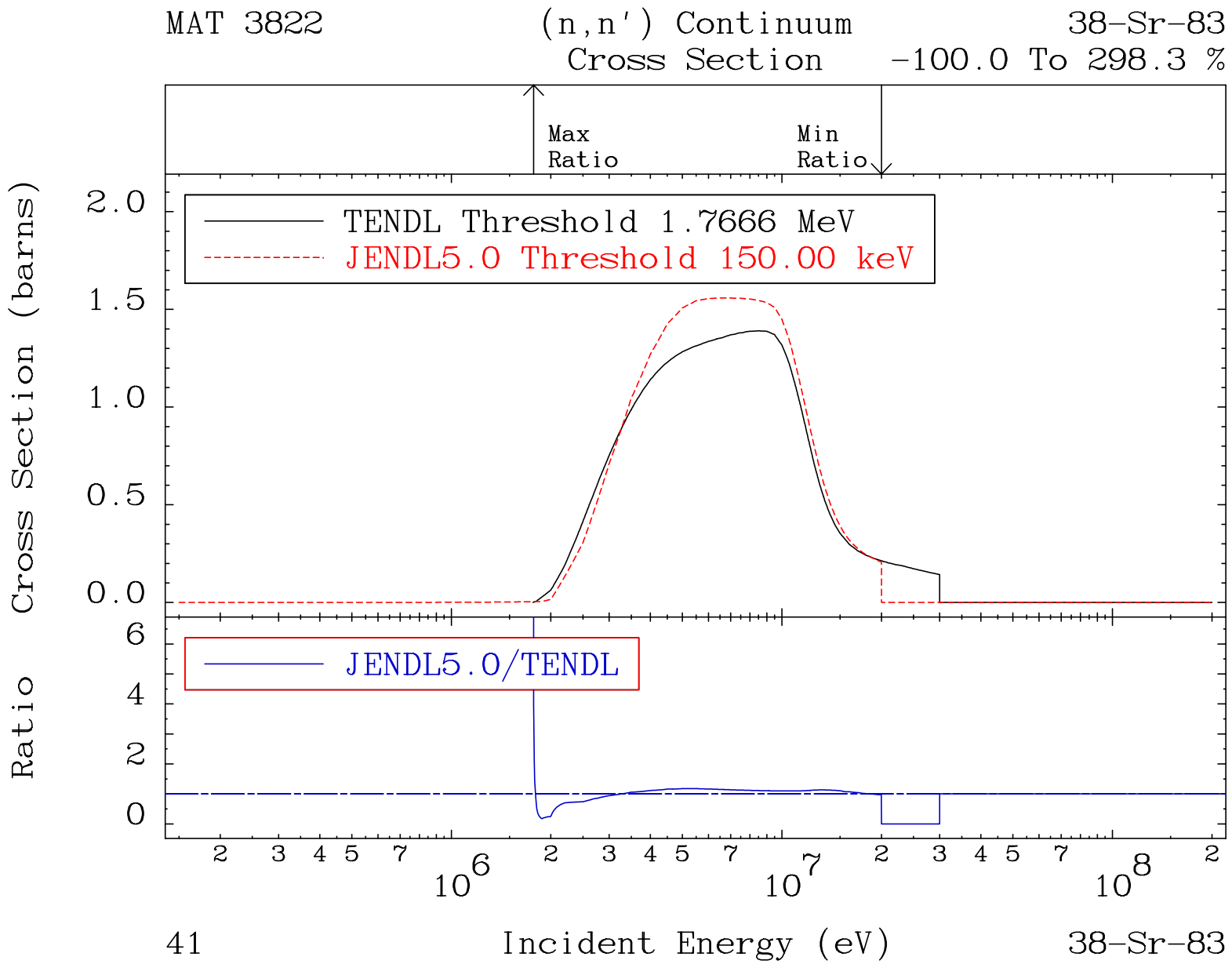

MAT 3822
MT= 76 (n,n') Level
38-Sr-83
Cross Section -100.0 To 299.1 %
Max Ratio
Min Ratio
TENDL Threshold 1.5171 MeV
JENDL5.0 Threshold 1.5171 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
38-Sr-83

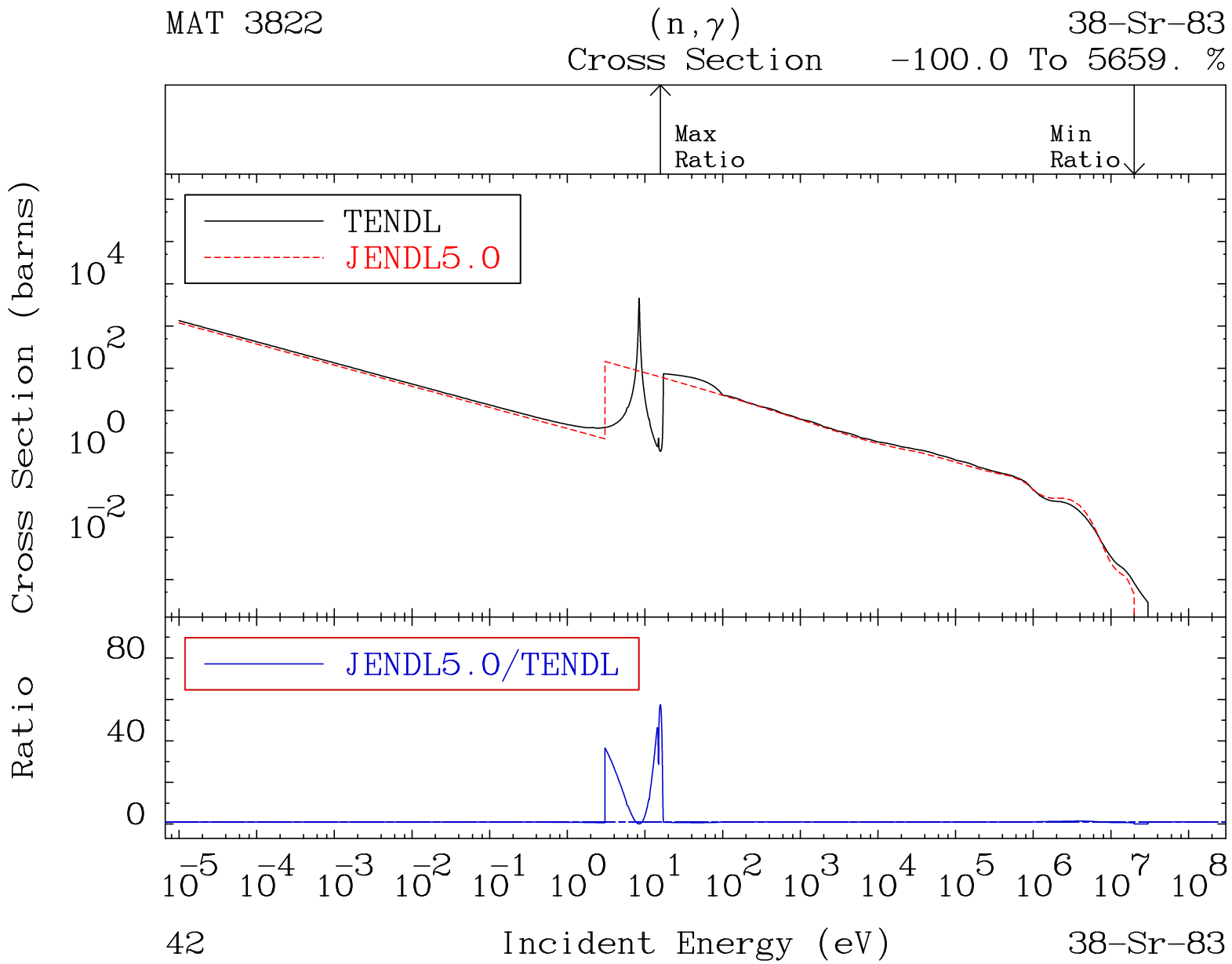

MAT 3822
MT= 77 (n,n') Level
38-Sr-83
Cross Section -100.0 To 539.2 %
Max Ratio
Min Ratio
TENDL Threshold 1.5939 MeV
JENDL5.0 Threshold 1.5939 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
38-Sr-83

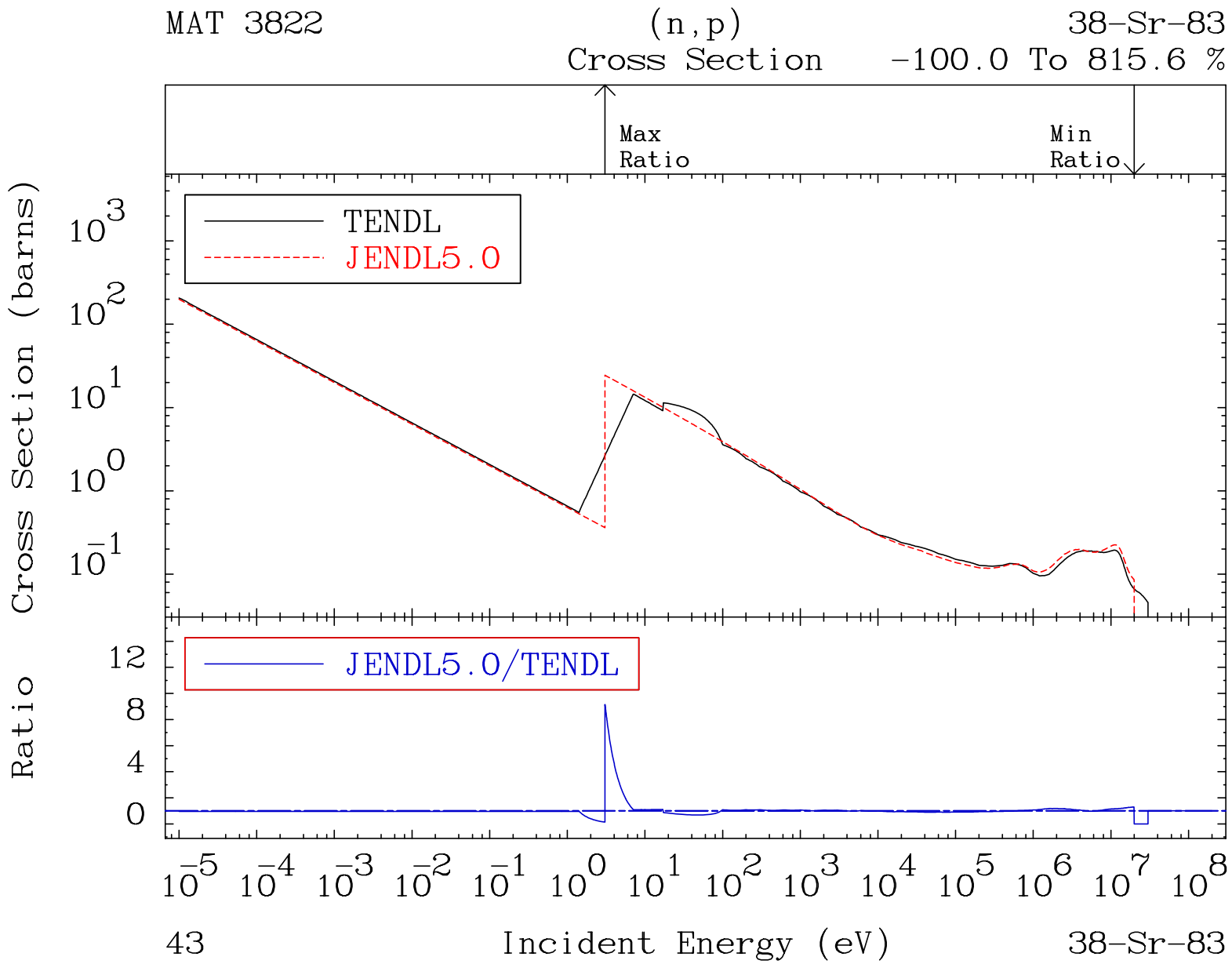

MAT 3822
MT= 78 (n,n') Level
38-Sr-83
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.6093 MeV
JENDL5.0 Threshold 1.6093 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
38-Sr-83

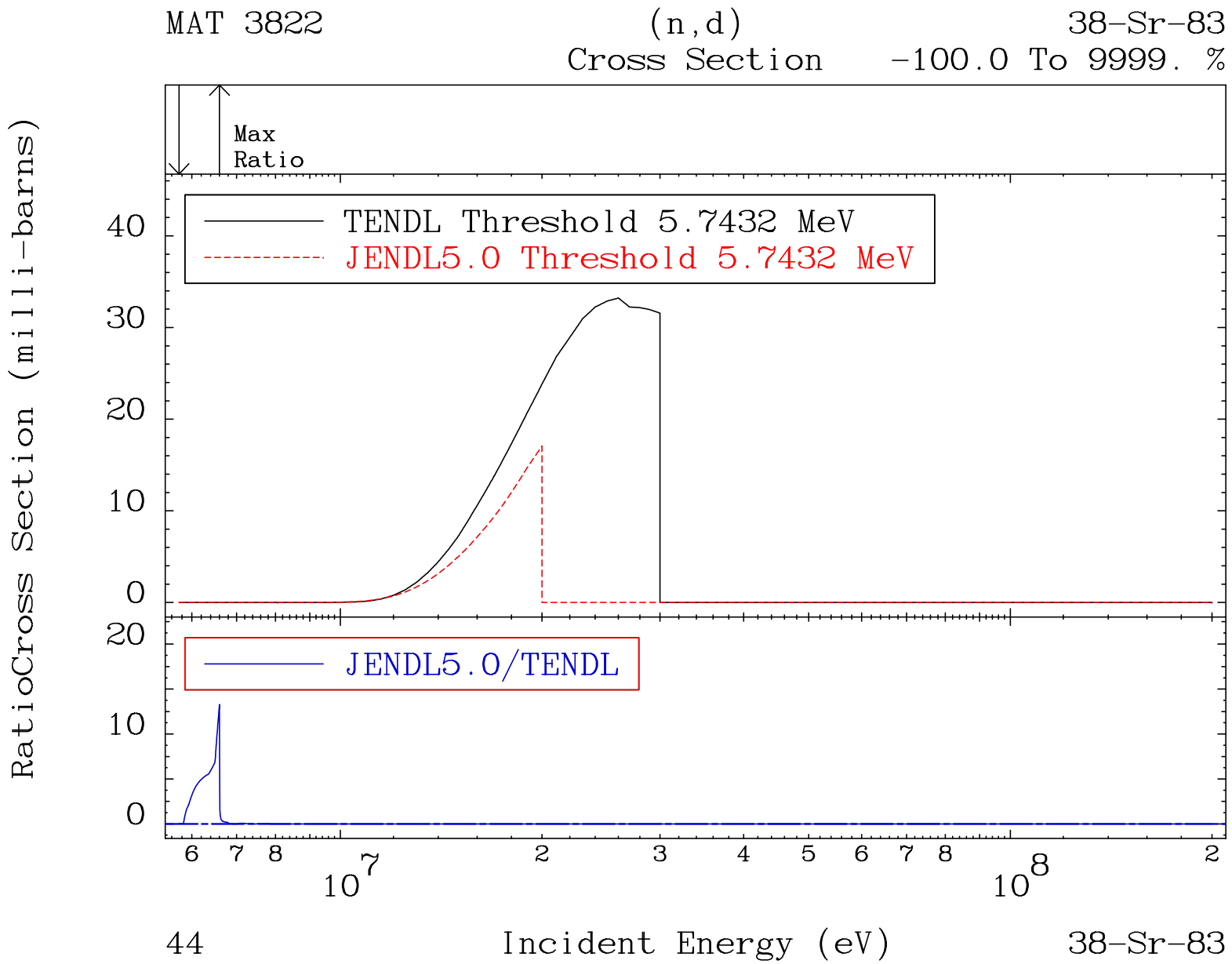

MAT 3822
MT= 79 (n,n') Level
38-Sr-83
Cross Section -100.0 To 425.4 %
Max Ratio
Min Ratio
TENDL Threshold 1.6243 MeV
JENDL5.0 Threshold 1.6243 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
38-Sr-83

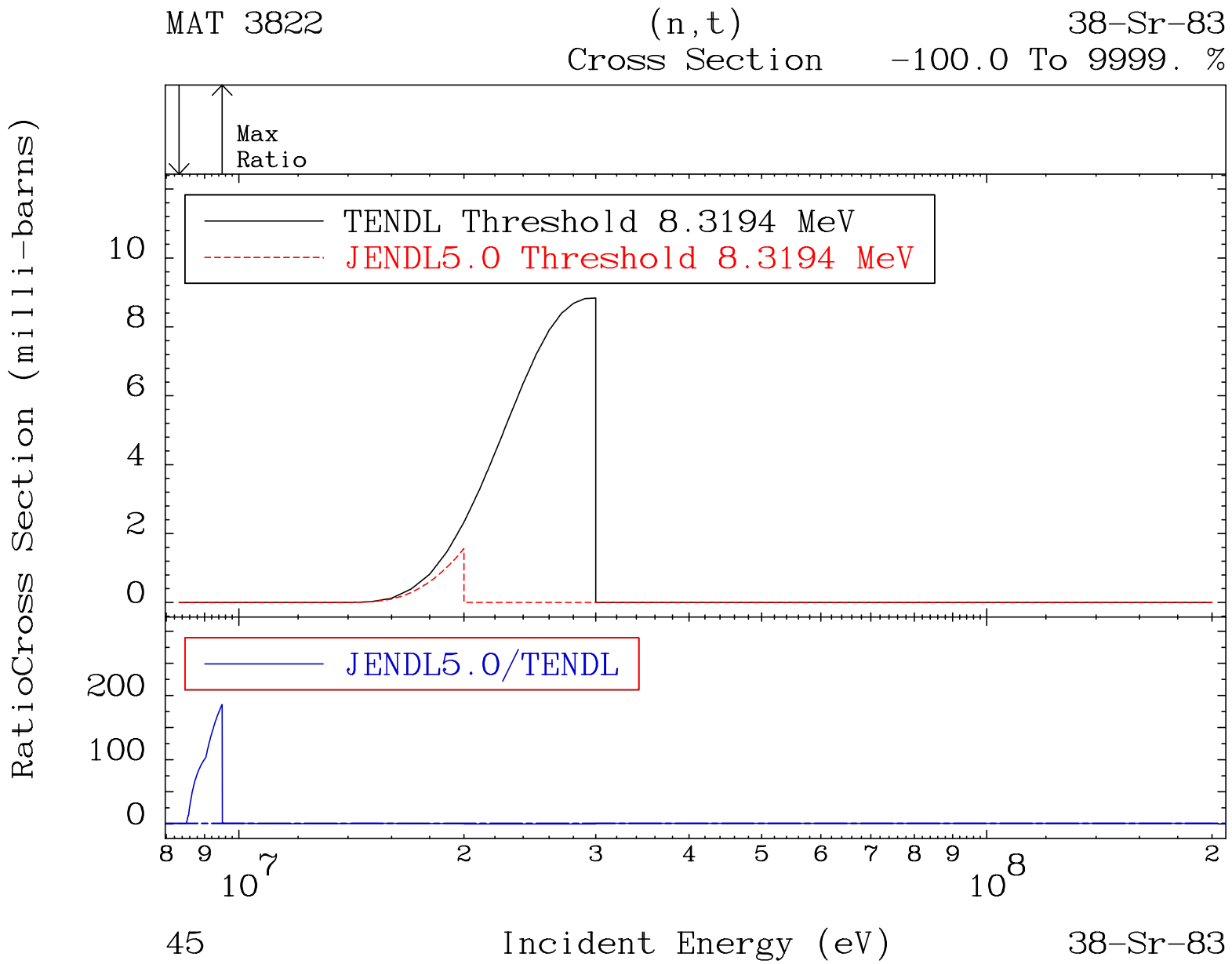

MAT 3822
MT= 80 (n,n') Level
38-Sr-83
Cross Section -100.0 To 173.4 %
Max Ratio
Min Ratio
TENDL Threshold 1.7666 MeV
JENDL5.0 Threshold 1.7666 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
38-Sr-83

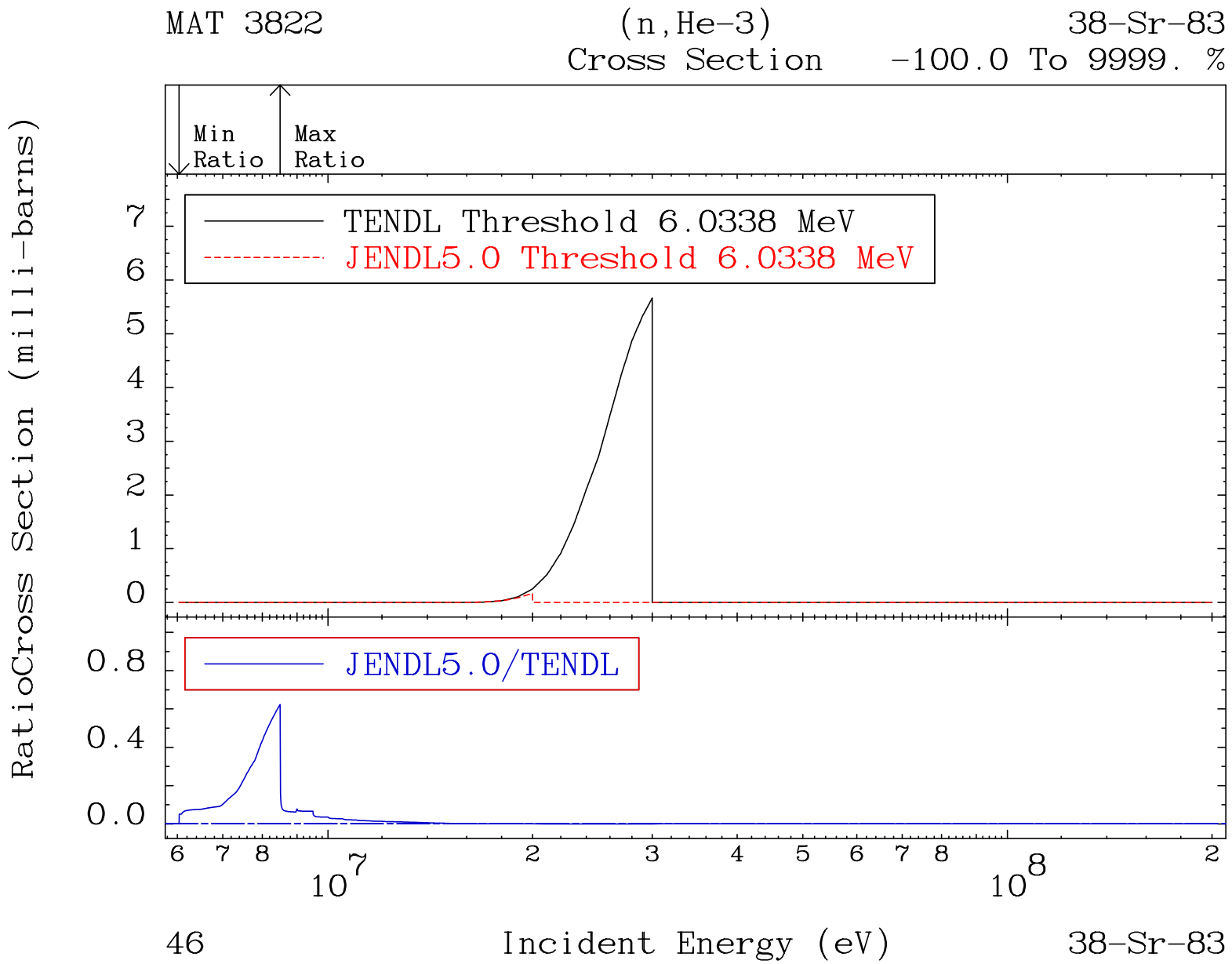

MAT 3822
(n,n') Continuum
Cross Section
38-Sr-83
-100.0 To 298.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7666 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
6
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
41
Incident Energy (eV)
38-Sr-83

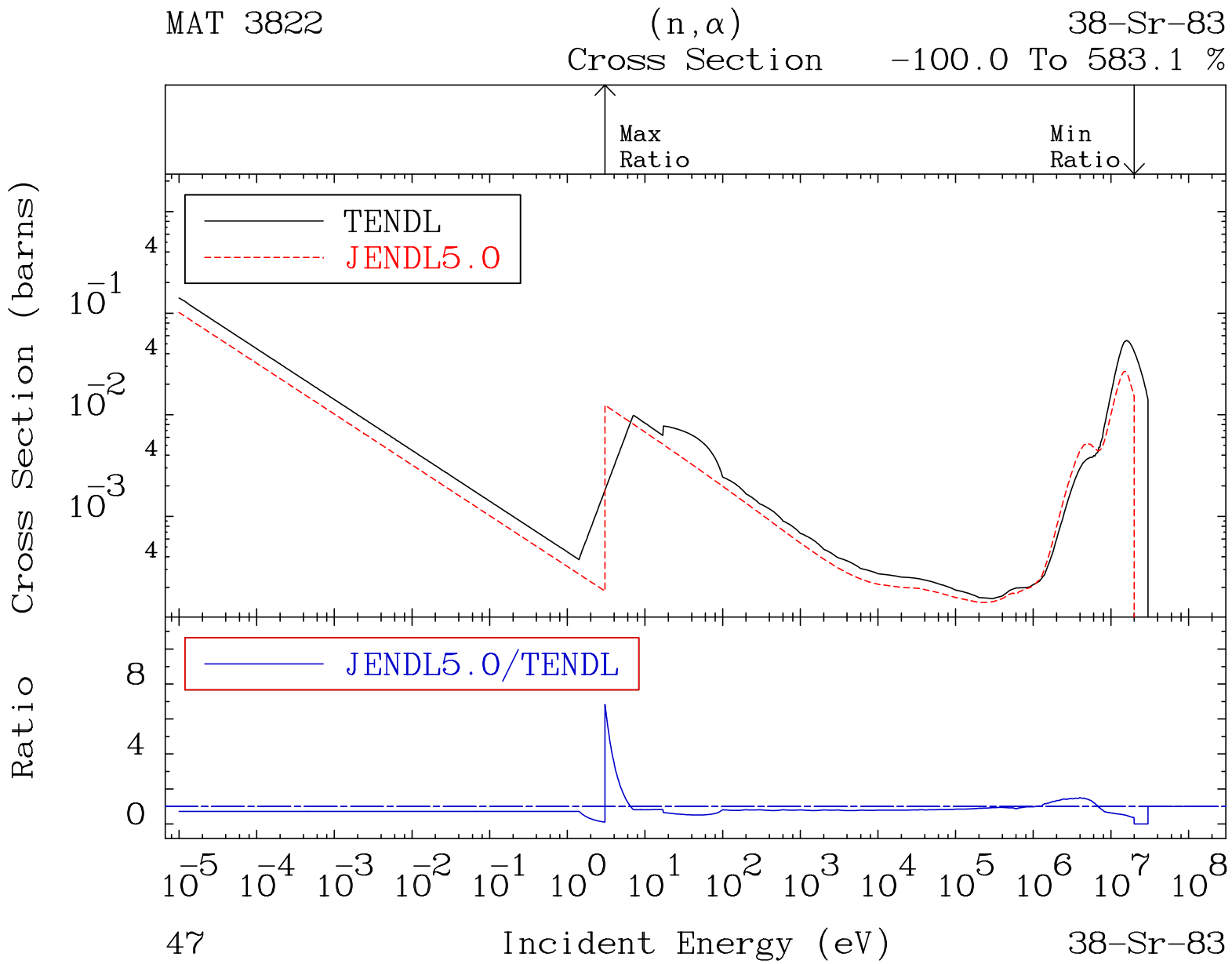

MAT 3822
(n,γ)
38-Sr-83
Cross Section
-100.0 To 5659. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
80
40
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
38-Sr-83

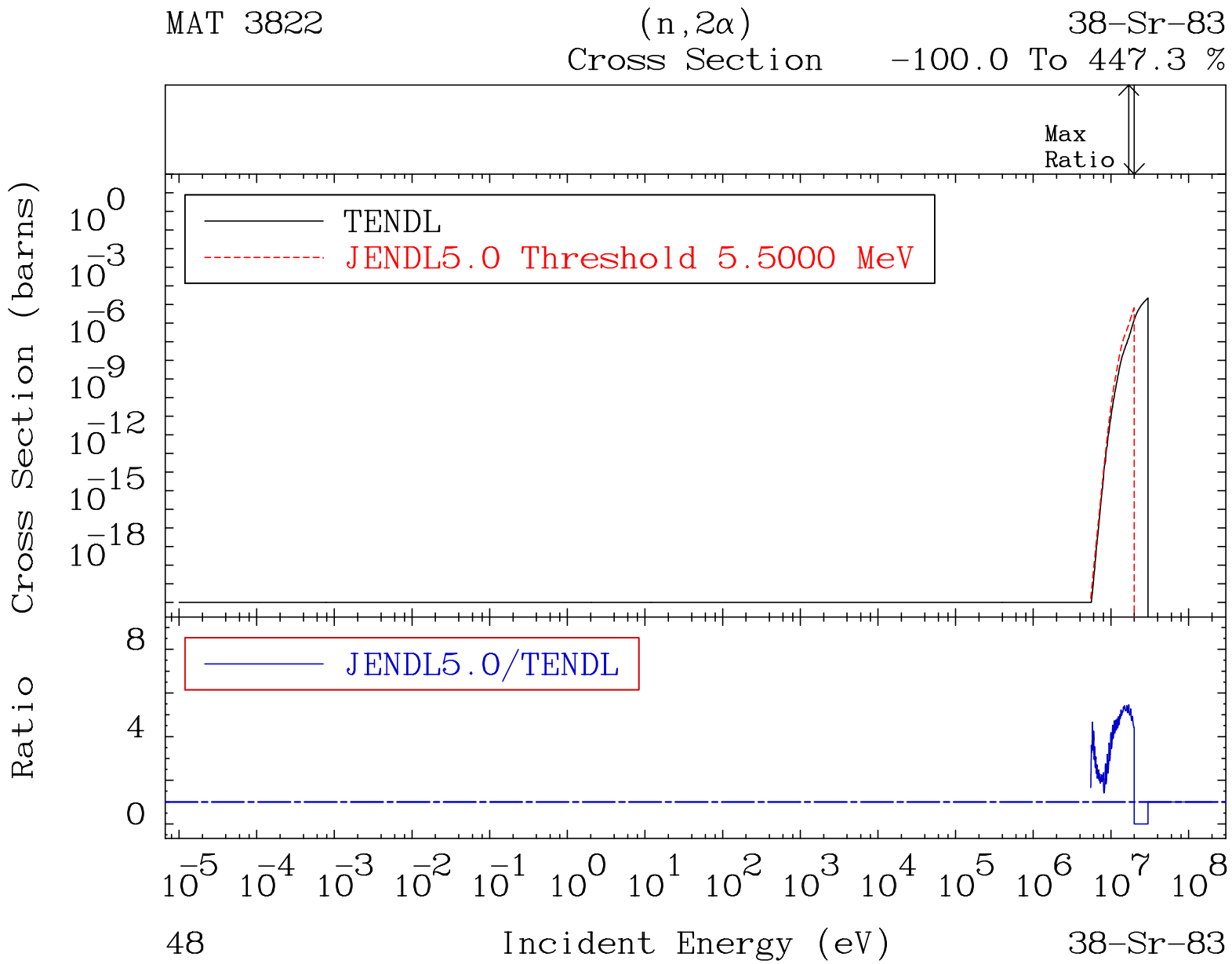

MAT 3822
(n,p)
Cross Section
38-Sr-83
-100.0 To 815.6 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
38-Sr-83

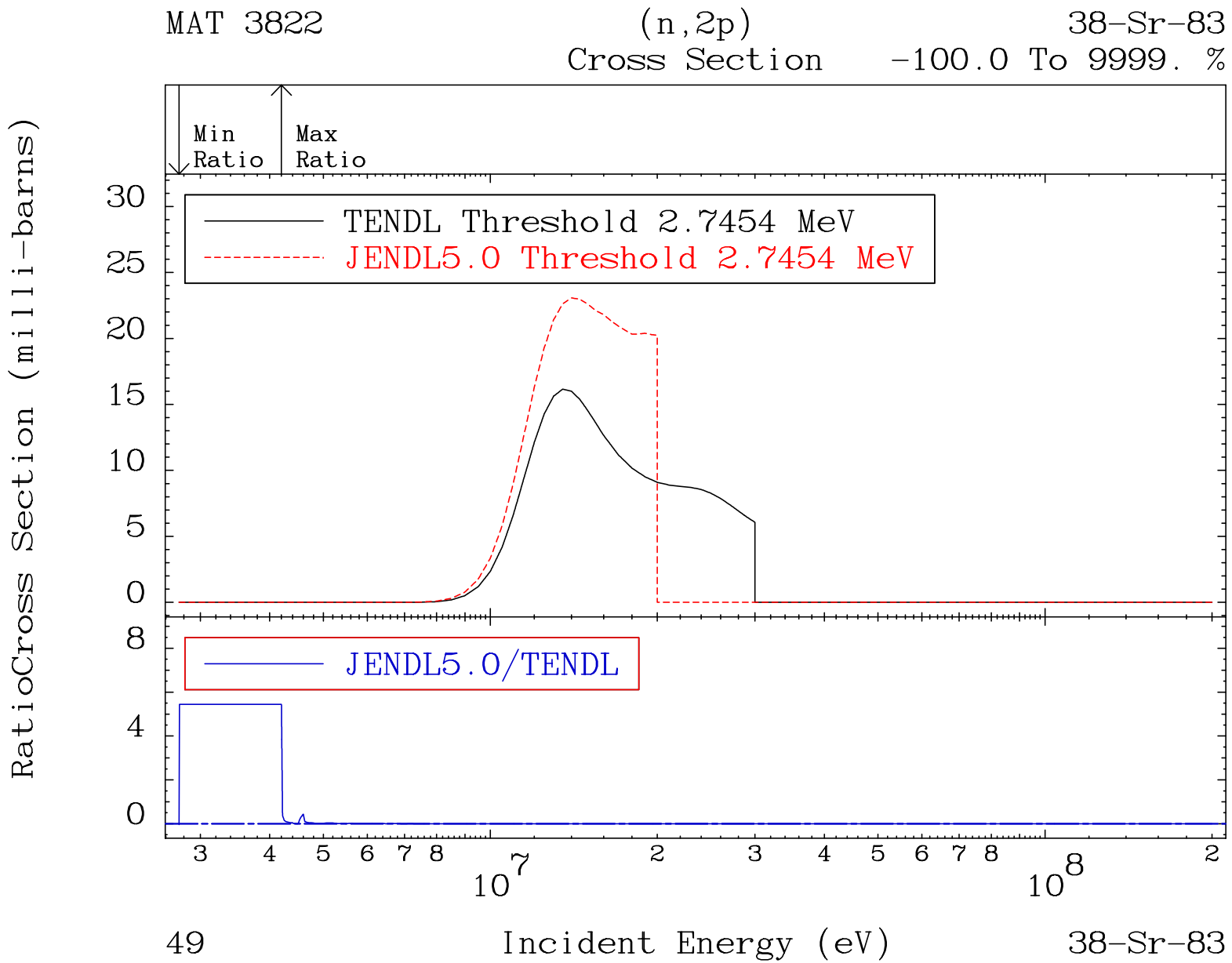

MAT 3822
(n,d)
38-Sr-83
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.7432 MeV
JENDL5.0 Threshold 5.7432 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
44
Incident Energy (eV)
38-Sr-83

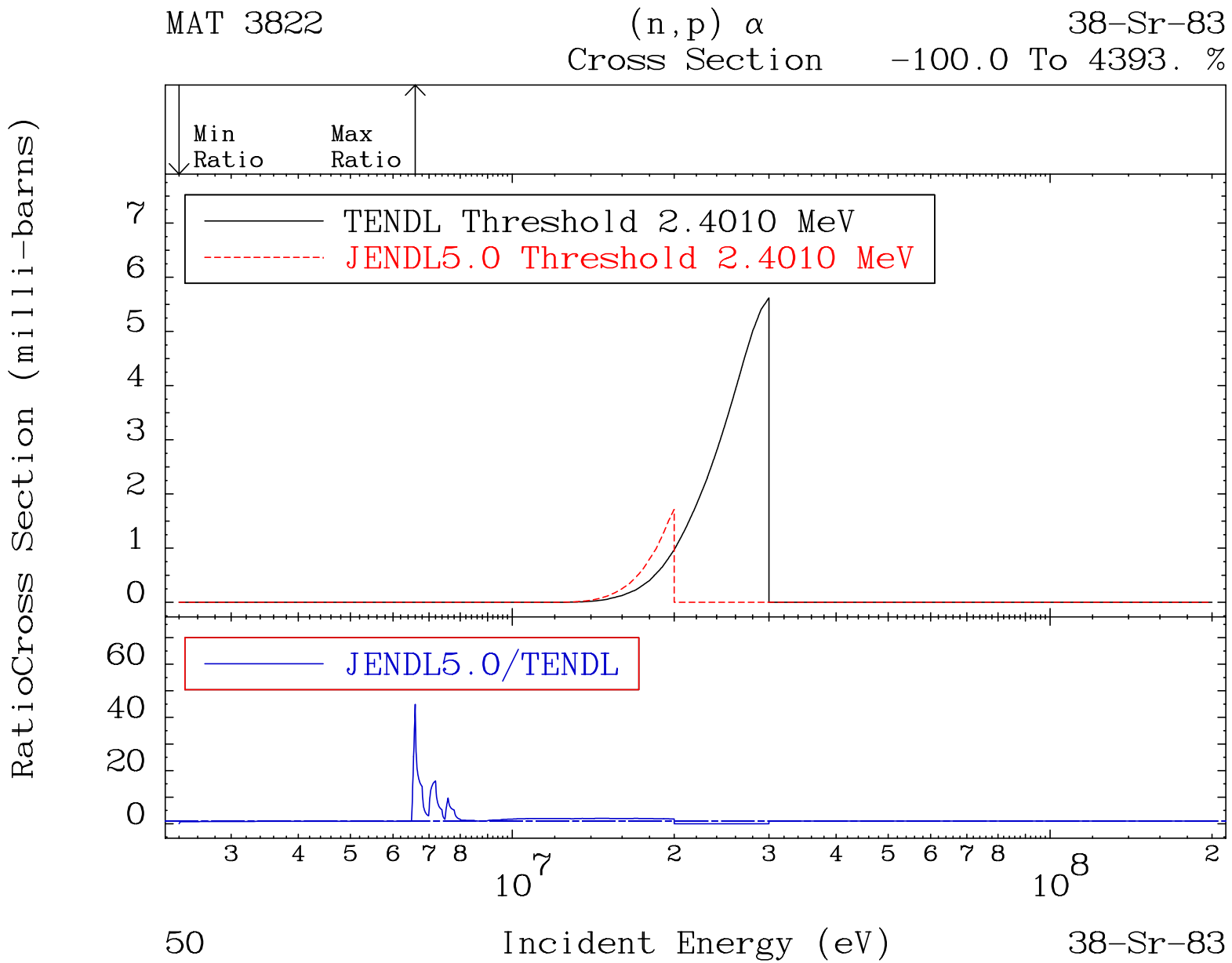

MAT 3822
(n,t)
Cross Section
38-Sr-83
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.3194 MeV
JENDL5.0 Threshold 8.3194 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
200
100
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
38-Sr-83

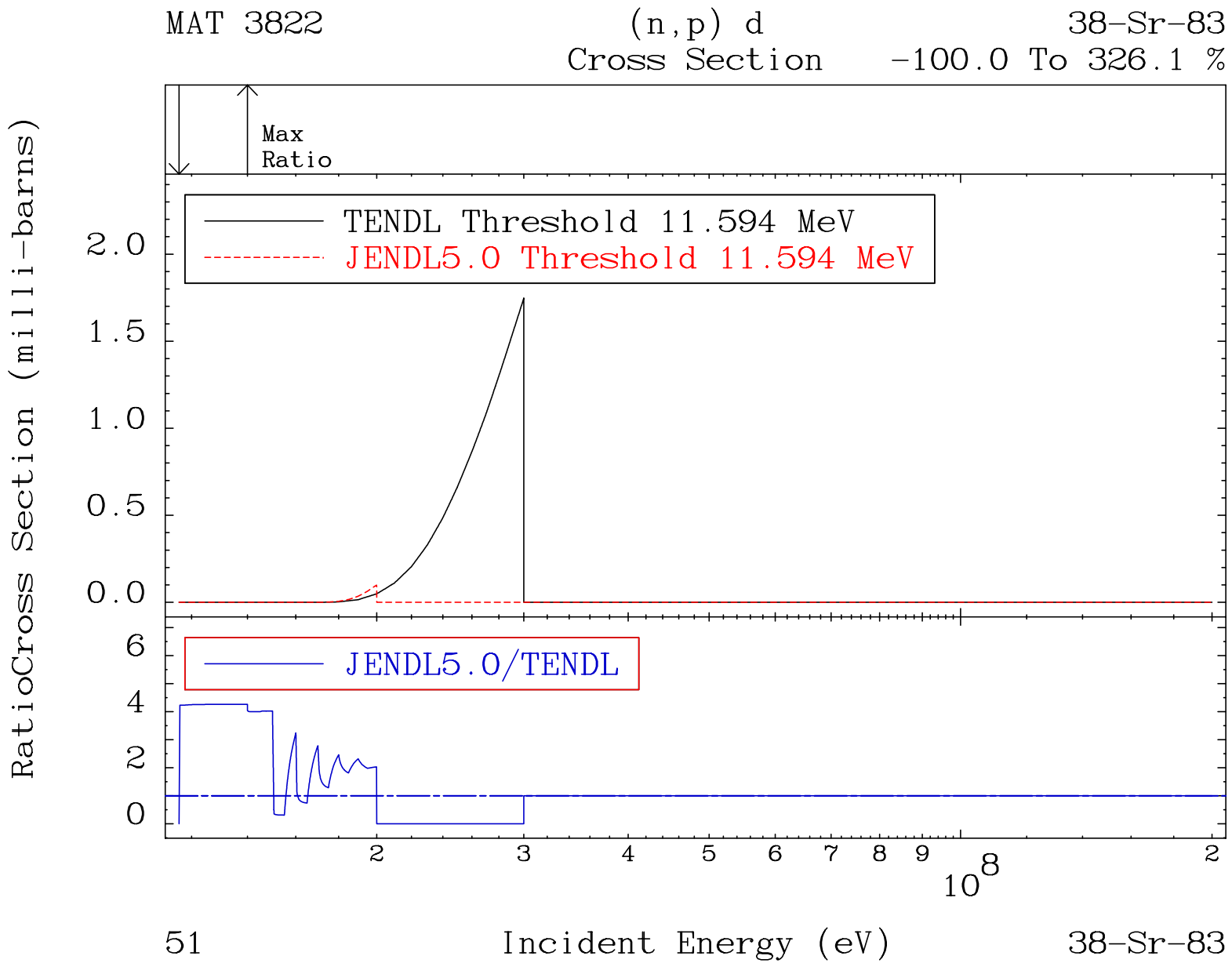

MAT 3822
(n,He-3)
Cross Section
38-Sr-83
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.0338 MeV
JENDL5.0 Threshold 6.0338 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
46
38-Sr-83

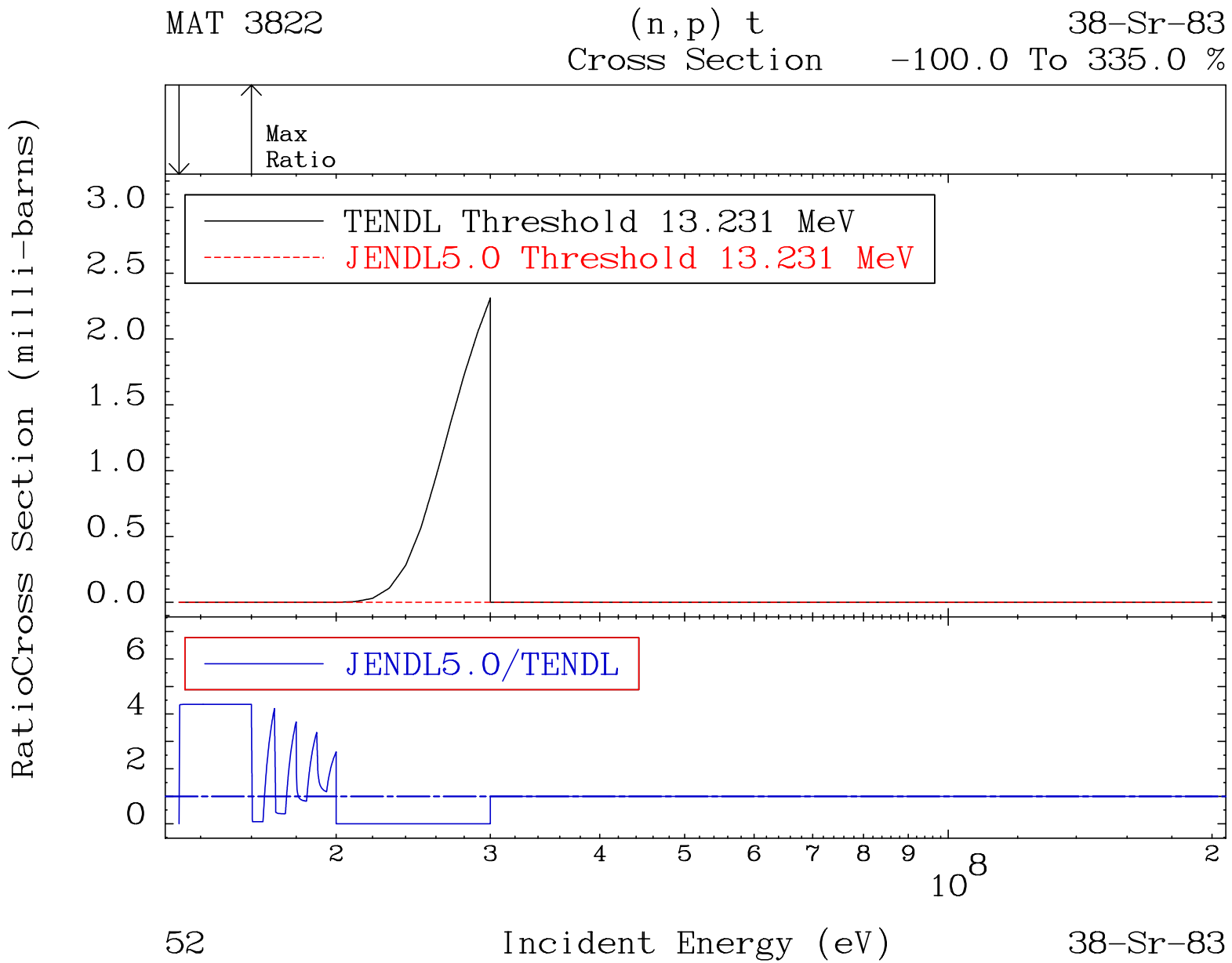

MAT 3822
(n,α)
Cross Section
38-Sr-83
-100.0 To 583.1 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
38-Sr-83

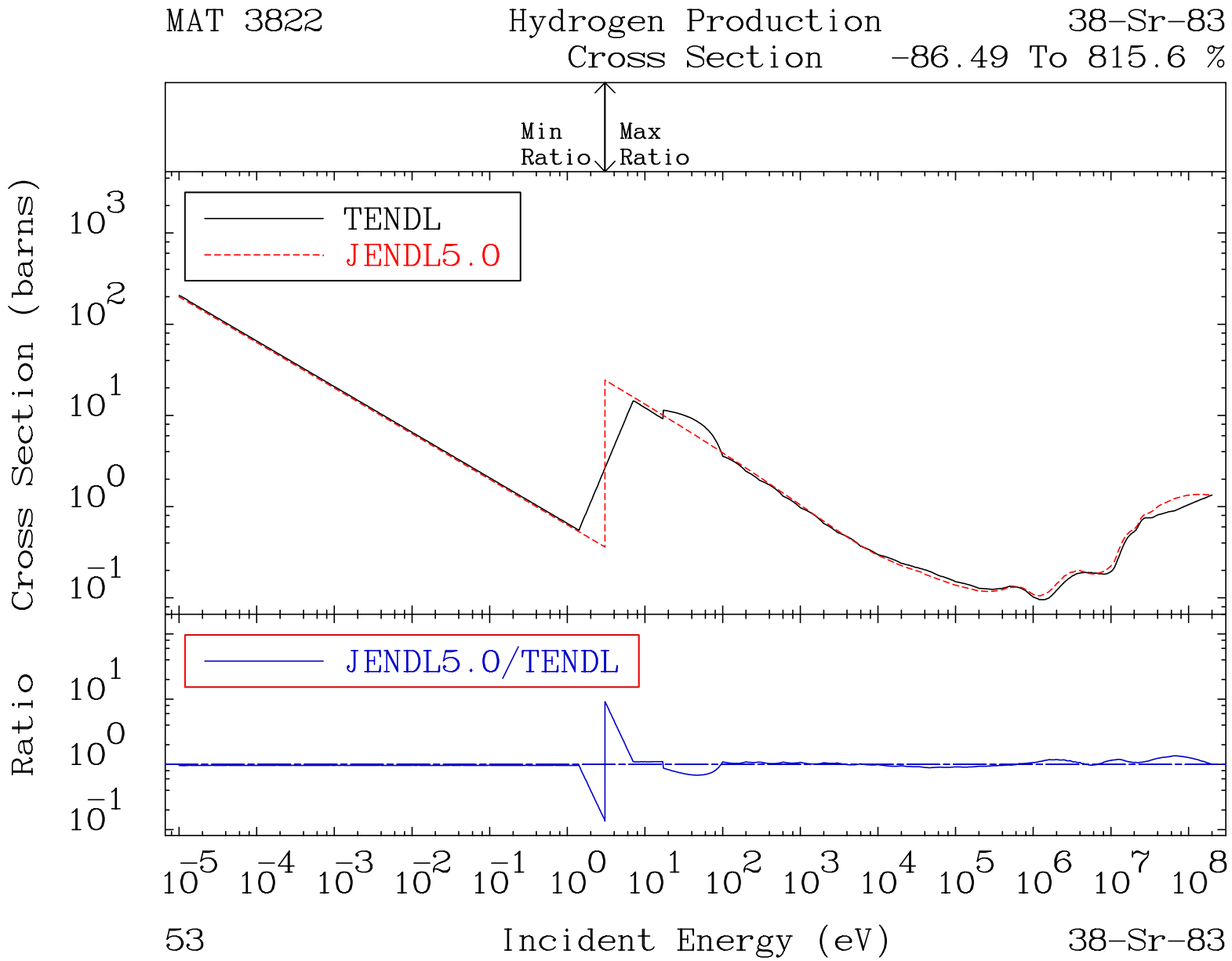

MAT 3822
(n,2α)
38-Sr-83
Cross Section
-100.0 To 447.3 %
Max
Ratio
TENDL
JENDL5.0 Threshold 5.5000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
38-Sr-83

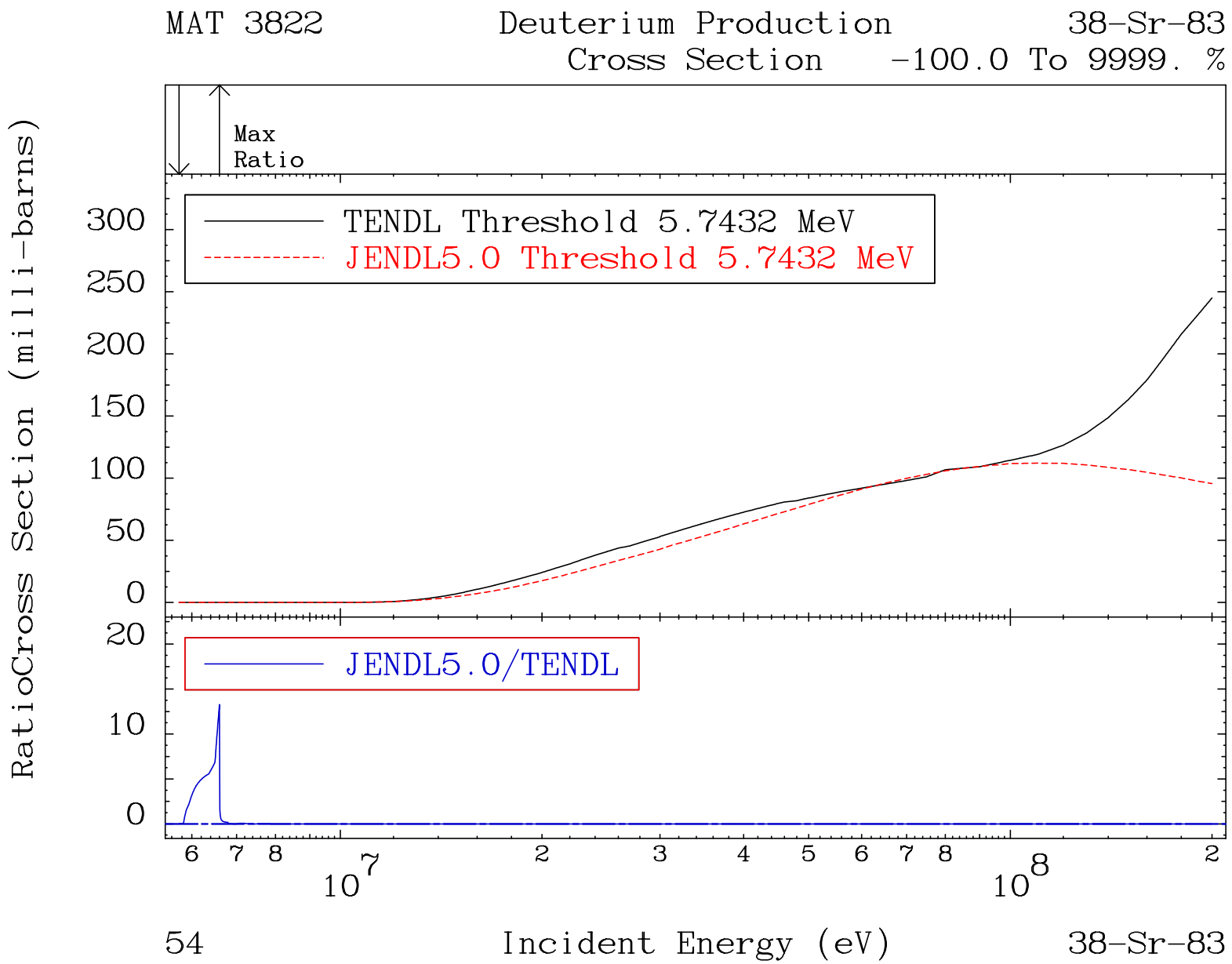

MAT 3822
(n,2p)
38-Sr-83
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.7454 MeV
JENDL5.0 Threshold 2.7454 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
8
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
38-Sr-83

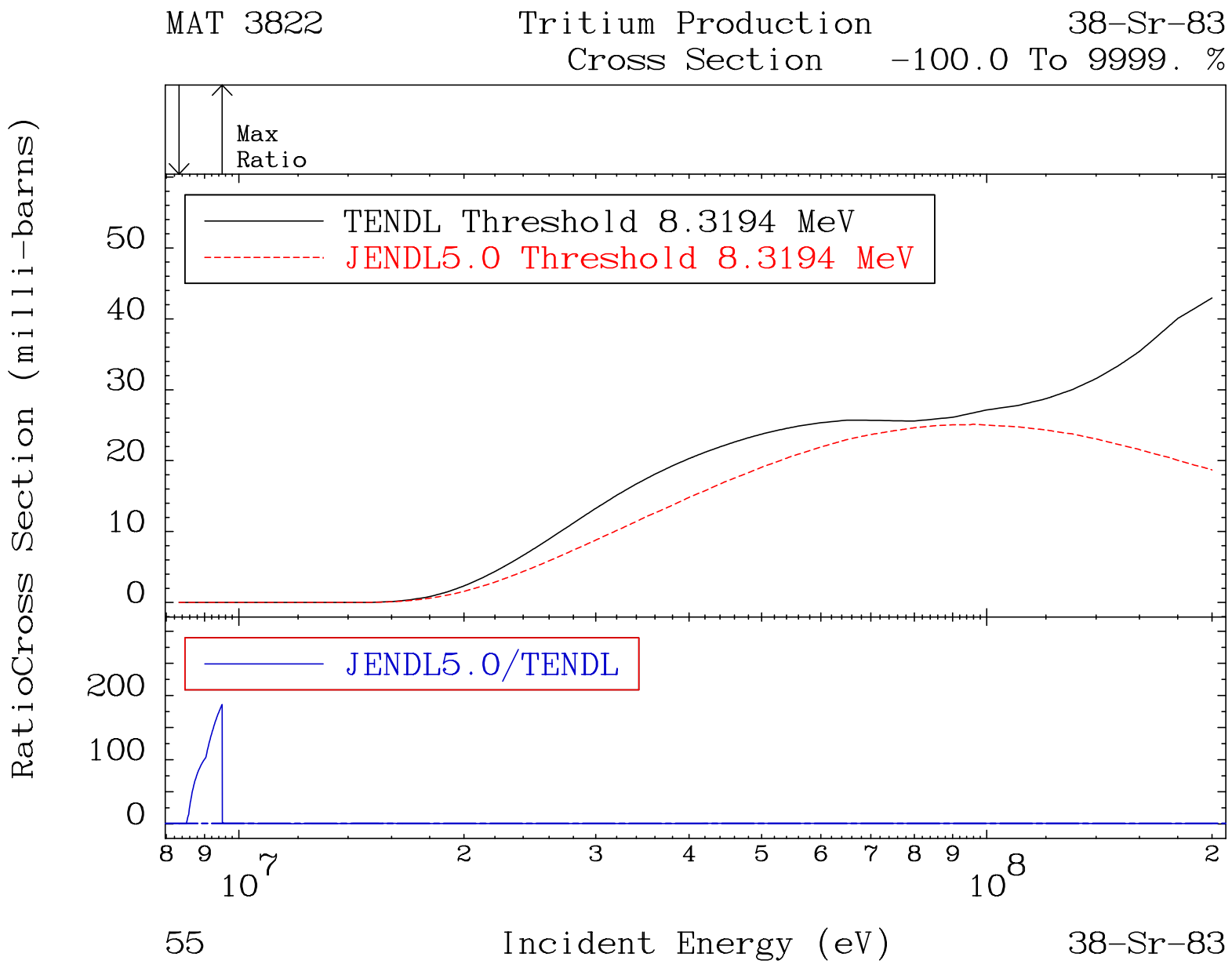

MAT 3822
(n,p) α
38-Sr-83
Cross Section
-100.0 To 4393. %
Min Ratio
Max Ratio
TENDL Threshold 2.4010 MeV
JENDL5.0 Threshold 2.4010 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50
38-Sr-83

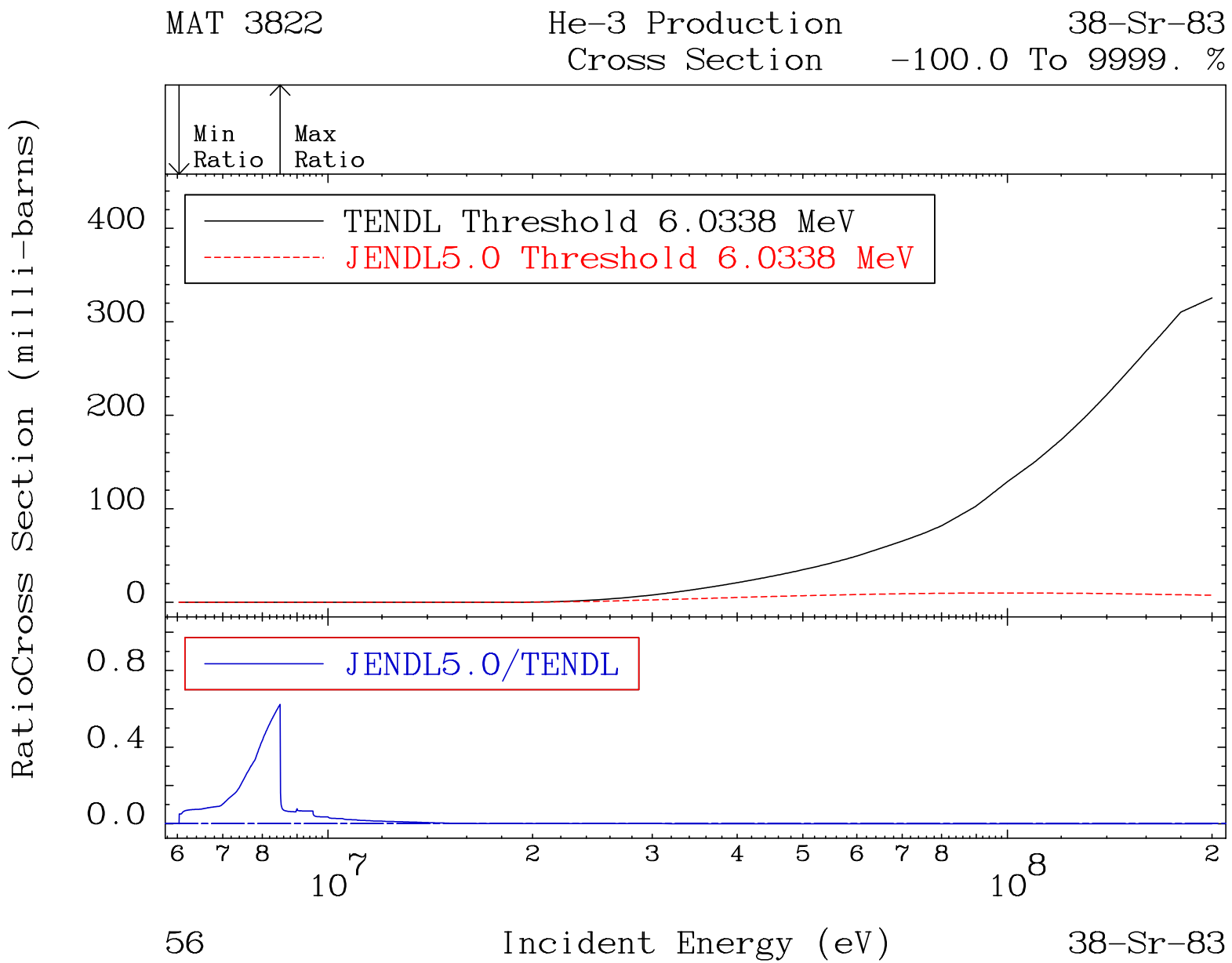

MAT 3822
(n,p) d
Cross Section
38-Sr-83
-100.0 To 326.1 %
Max
Ratio
TENDL Threshold 11.594 MeV
JENDL5.0 Threshold 11.594 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
38-Sr-83

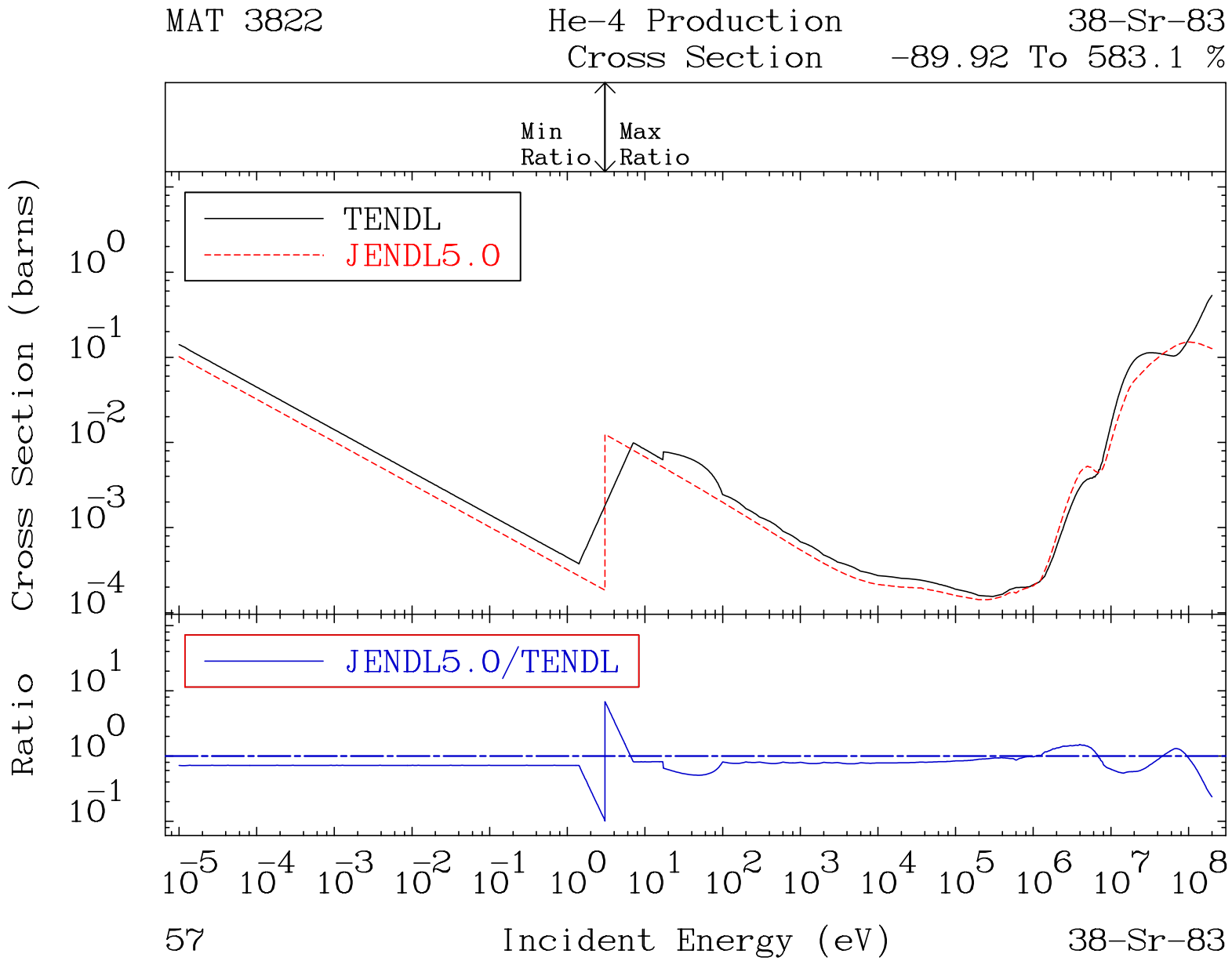

MAT 3822
(n,p) t
Cross Section
38-Sr-83
-100.0 To 335.0 %
Max
Ratio
TENDL Threshold 13.231 MeV
JENDL5.0 Threshold 13.231 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
38-Sr-83

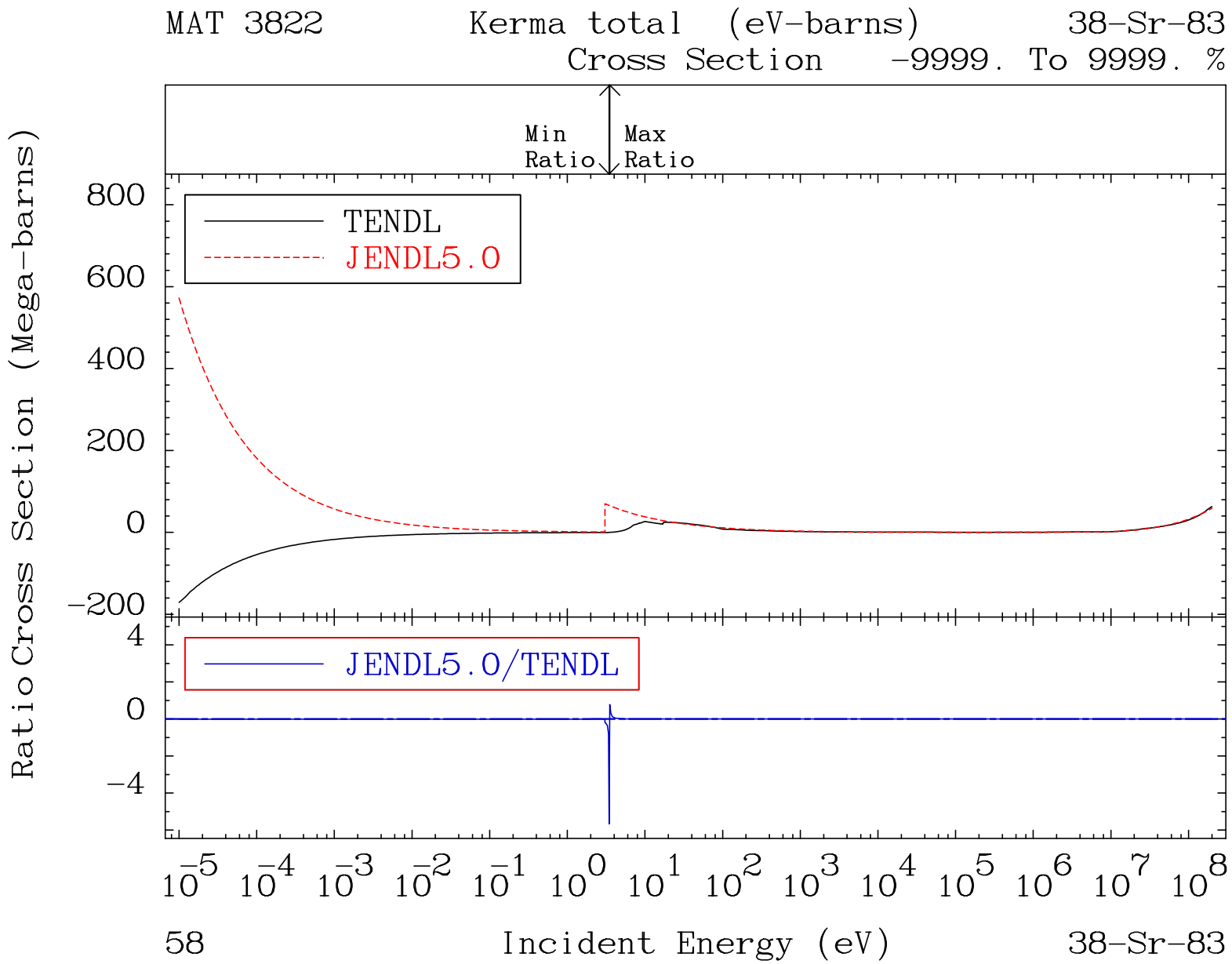

MAT 3822
Hydrogen Production
38-Sr-83
Cross Section
-86.49 To 815.6 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
38-Sr-83

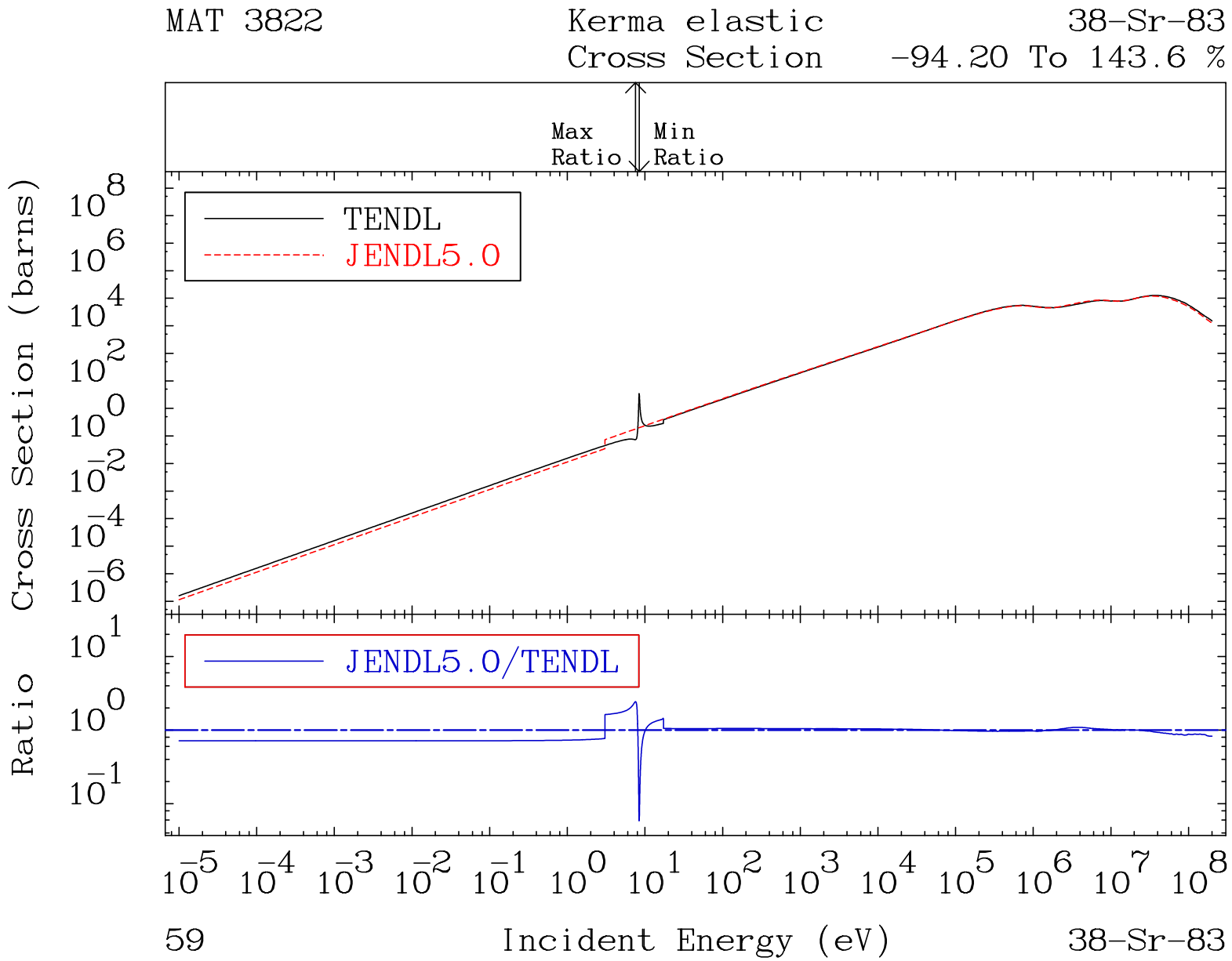

MAT 3822
Deuterium Production
38-Sr-83
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.7432 MeV
JENDL5.0 Threshold 5.7432 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
54
Incident Energy (eV)
38-Sr-83

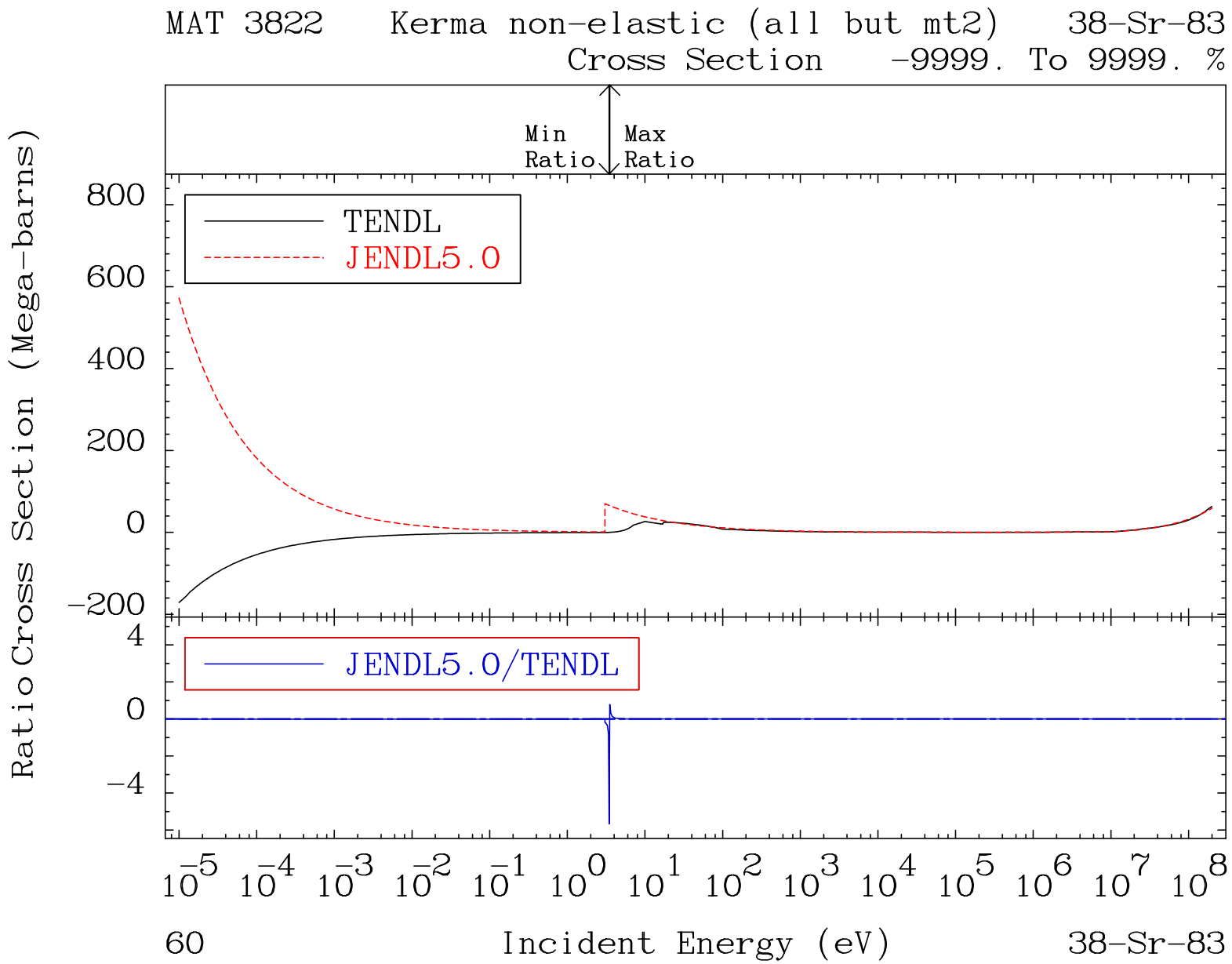

MAT 3822
Tritium Production
38-Sr-83
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.3194 MeV
JENDL5.0 Threshold 8.3194 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
200
100
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
38-Sr-83

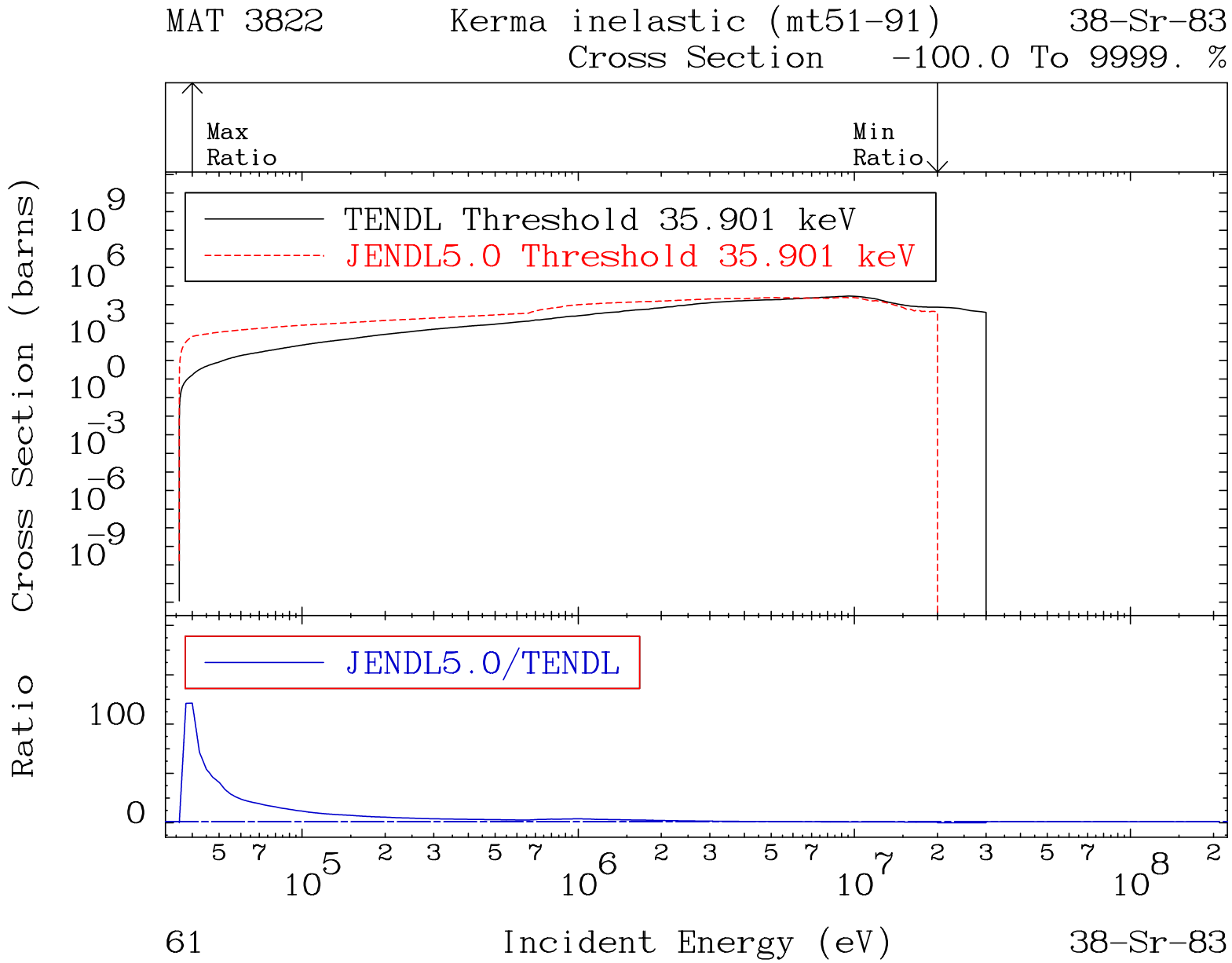

MAT 3822
He-3 Production
Cross Section
38-Sr-83
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.0338 MeV
JENDL5.0 Threshold 6.0338 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
0.8
0.4
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
56
Incident Energy (eV)
38-Sr-83

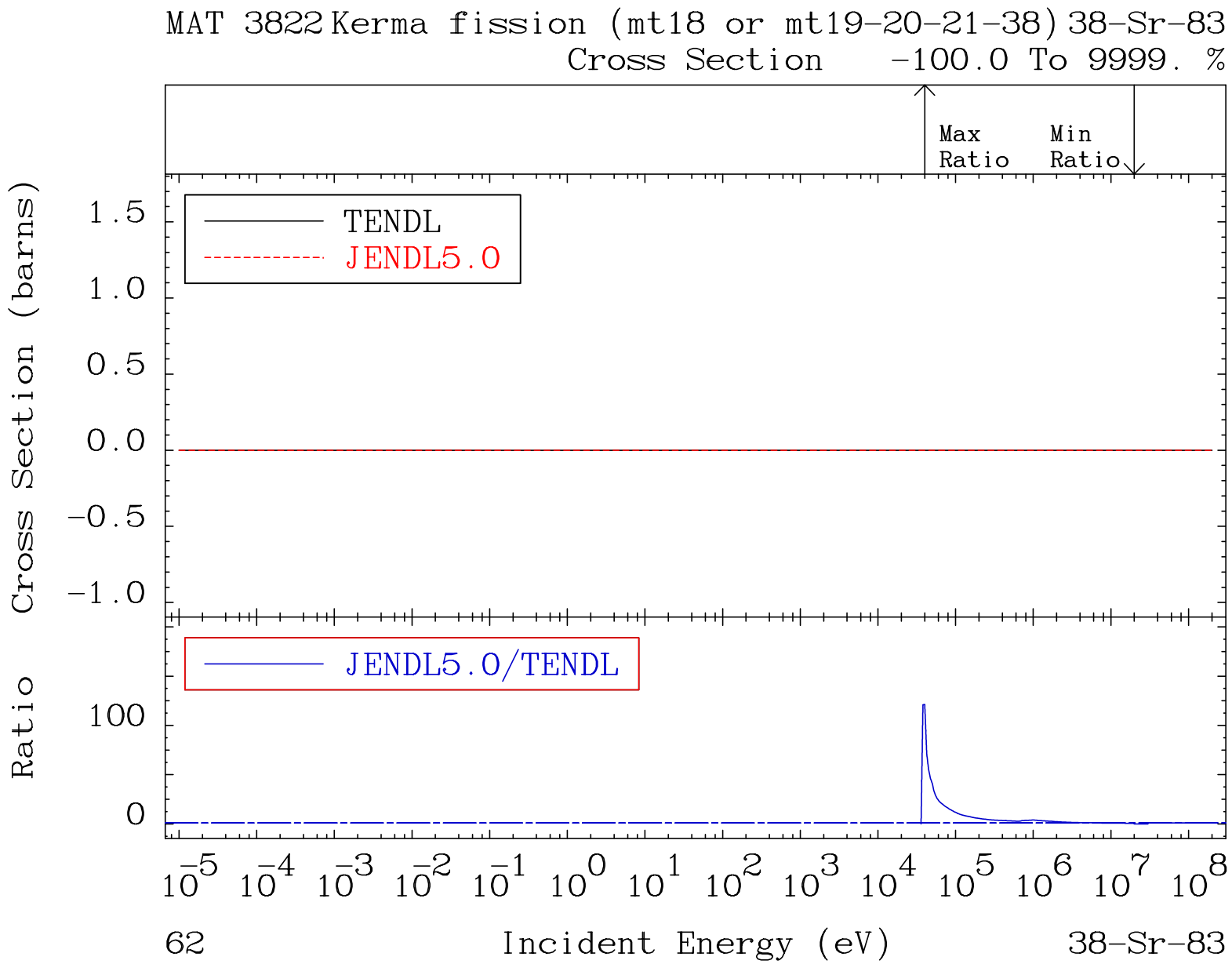

MAT 3822
He-4 Production
Cross Section
38-Sr-83
-89.92 To 583.1 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
38-Sr-83

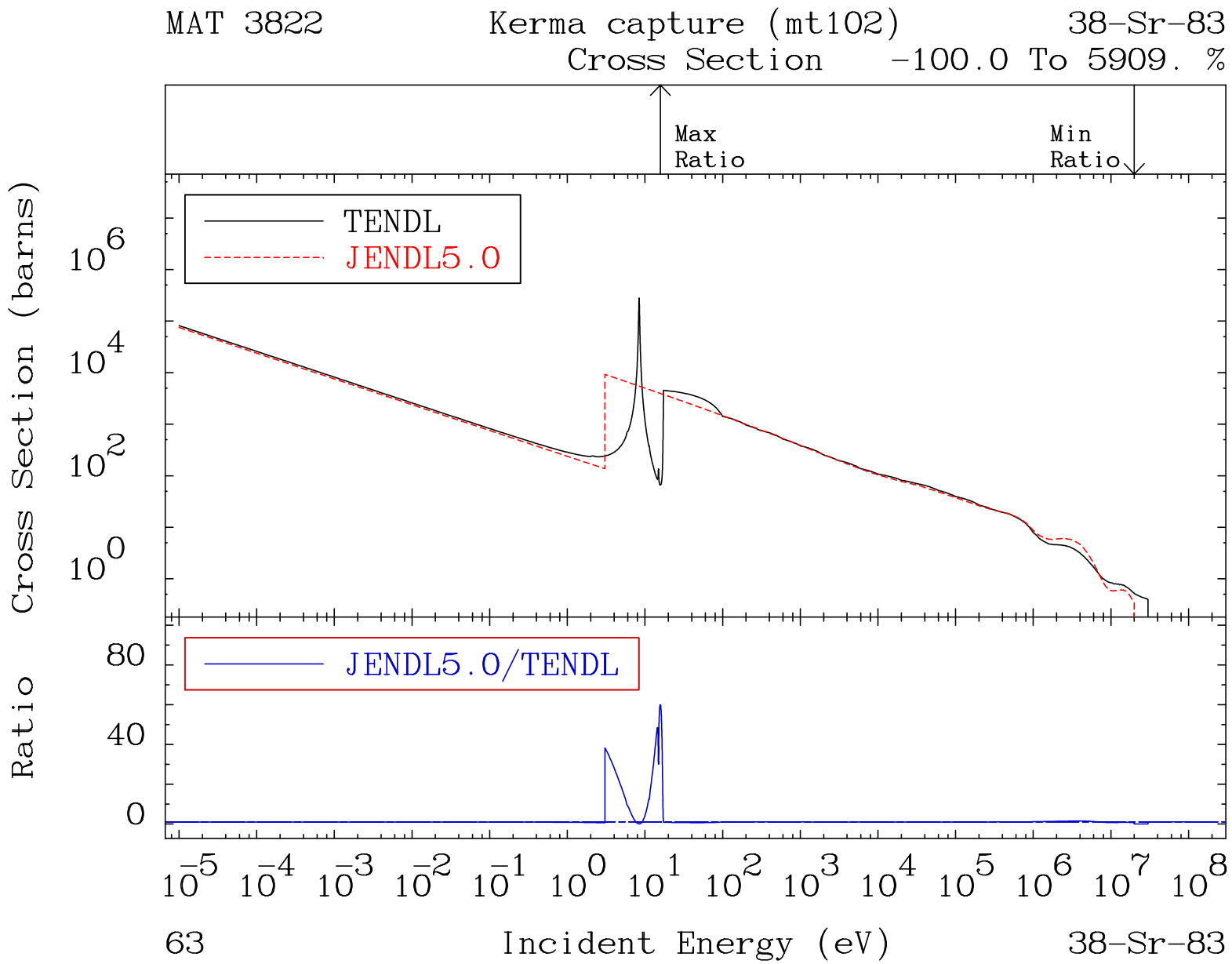

MAT 3822
Kerma total (eV-barns)
38-Sr-83
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
800
600
400
200
0
-200
4
0
-4
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
58
Incident Energy (eV)
38-Sr-83

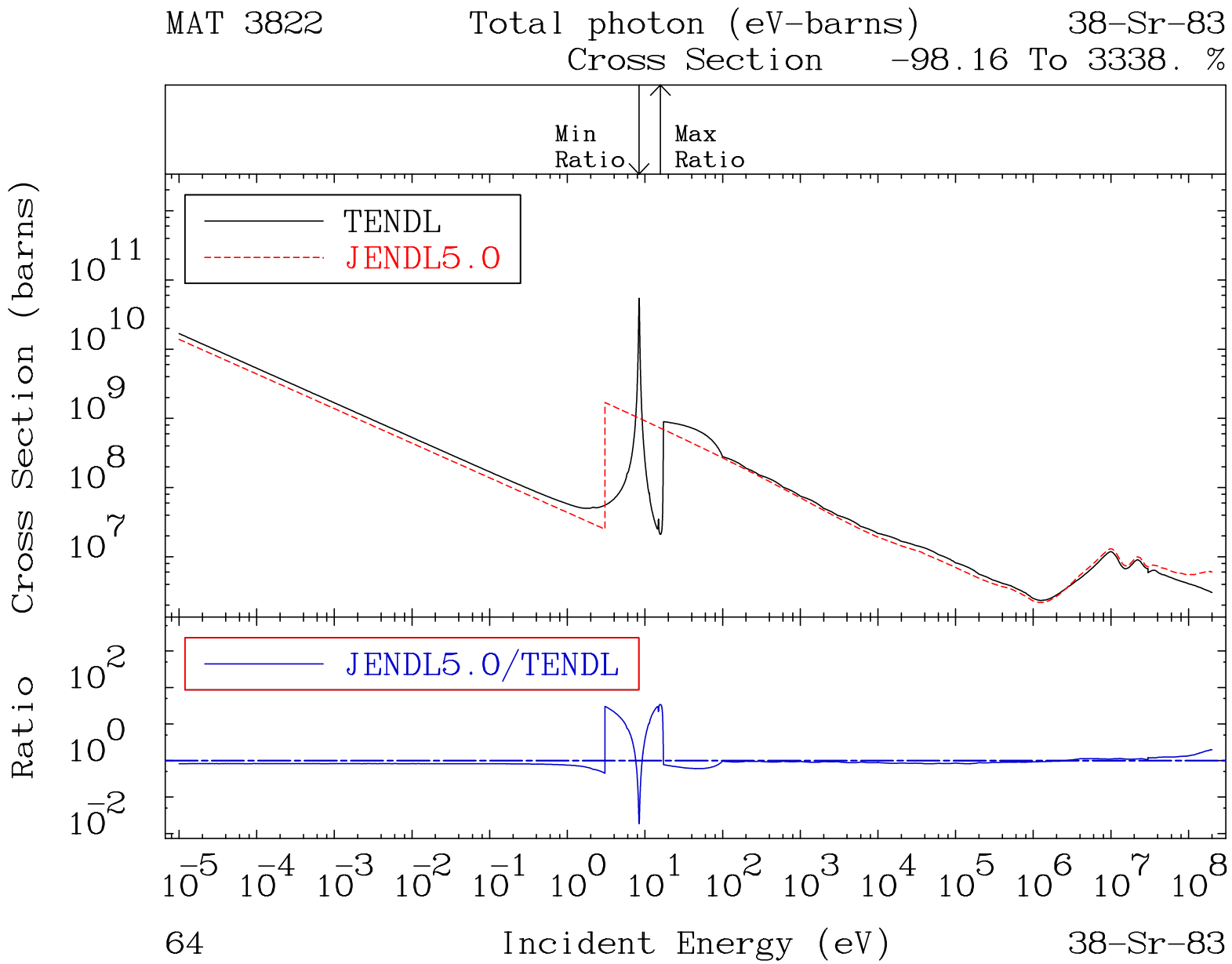

MAT 3822
Kerma elastic
Cross Section
38-Sr-83
-94.20 To 143.6 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
38-Sr-83

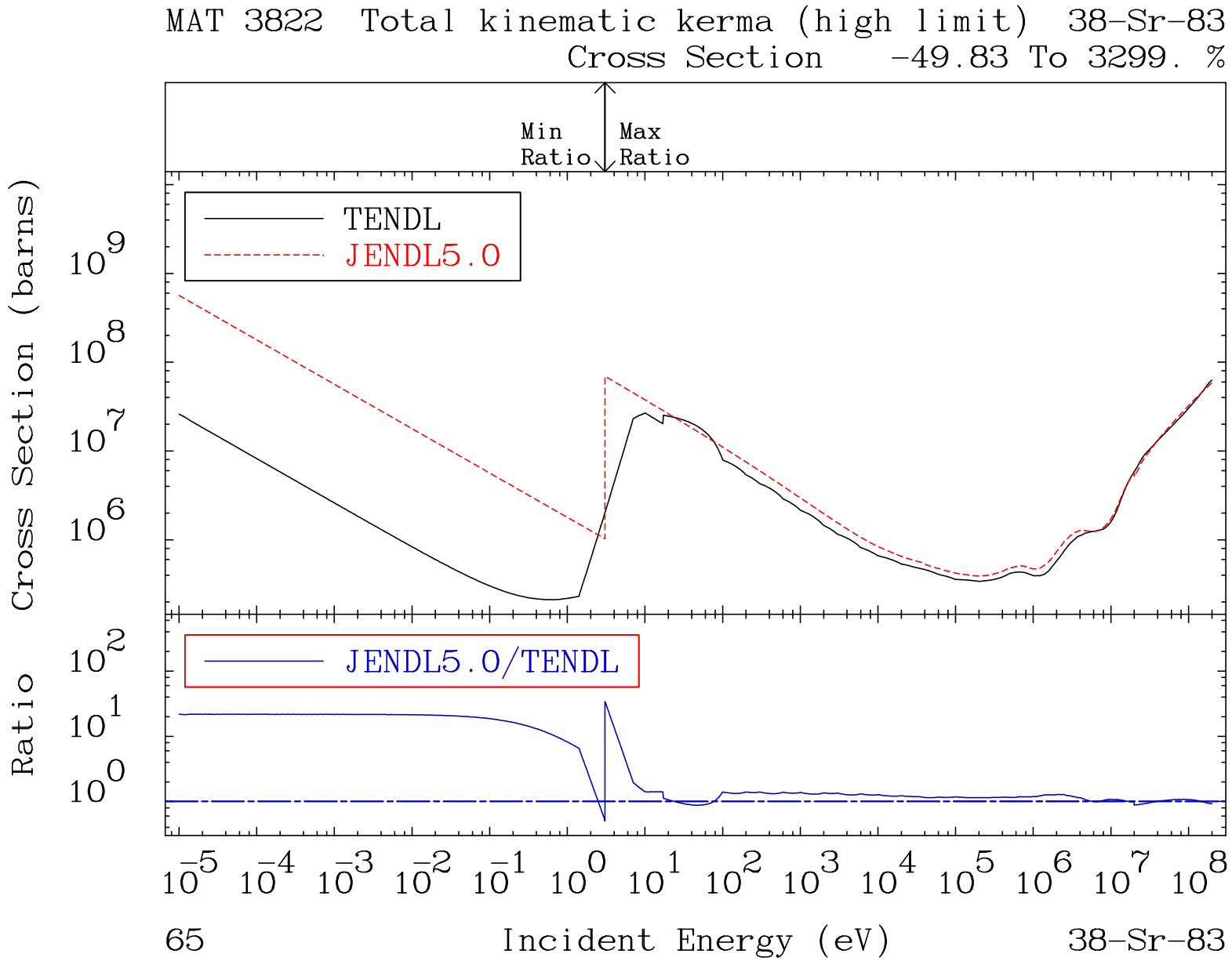

MAT 3822 Kerma non-elastic (all but mt2) 38-Sr-83
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
800
600
400
200
0
-200
4
0
-4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
60
Incident Energy (eV)
38-Sr-83

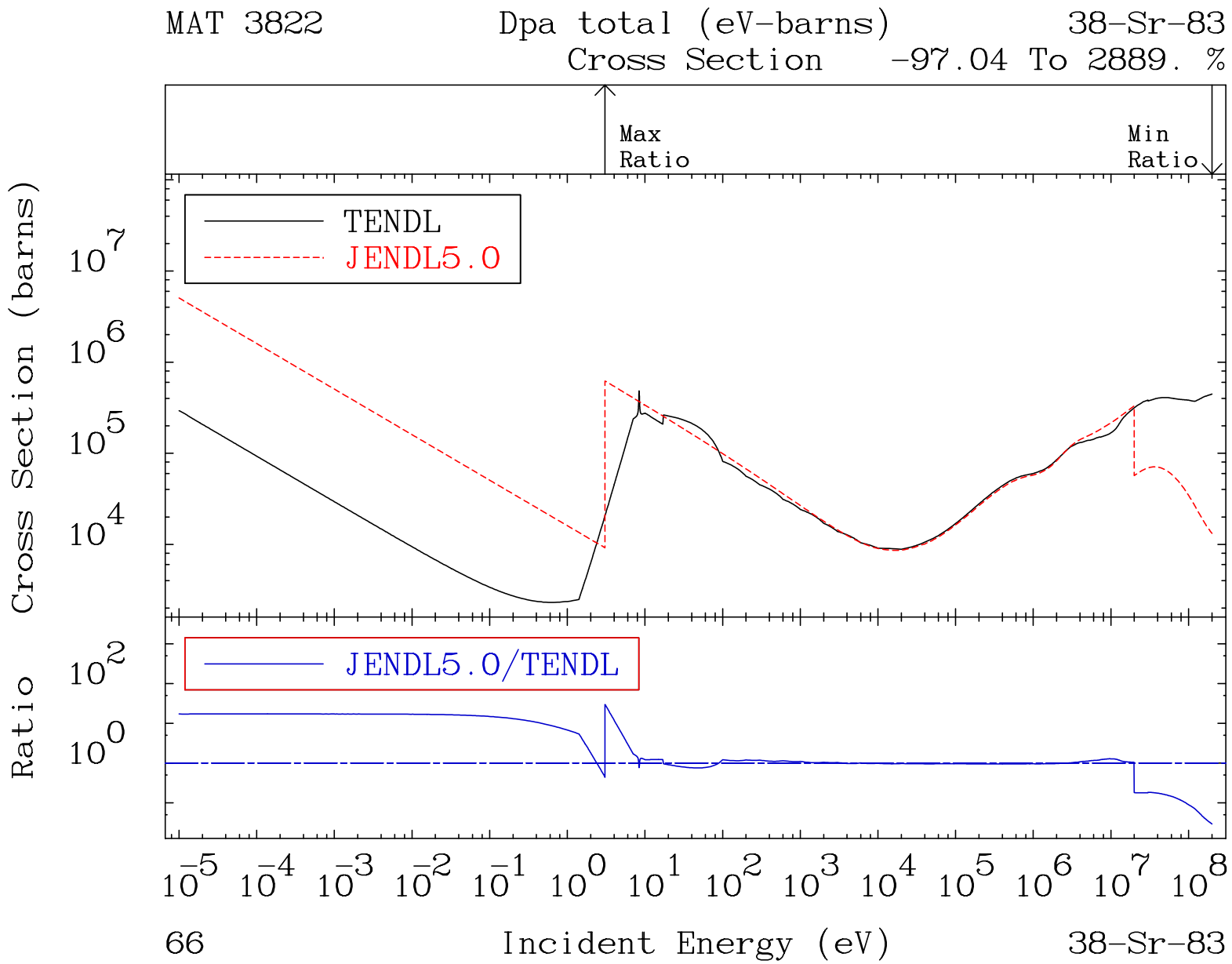

MAT 3822
Kerma inelastic (mt51-91)
38-Sr-83
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 35.901 keV
JENDL5.0 Threshold 35.901 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
38-Sr-83

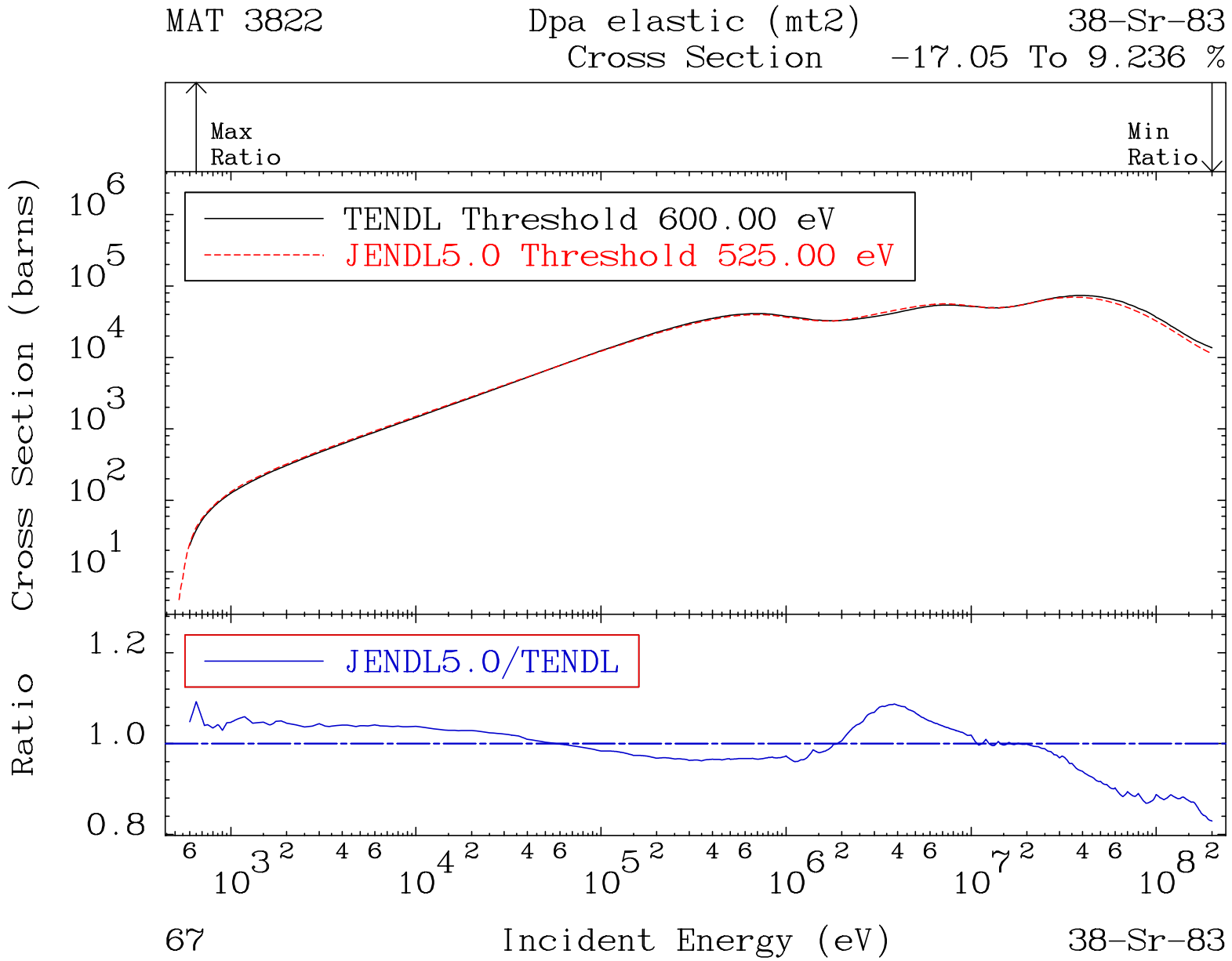

MAT 3822 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-83
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
62
Incident Energy (eV)
38-Sr-83

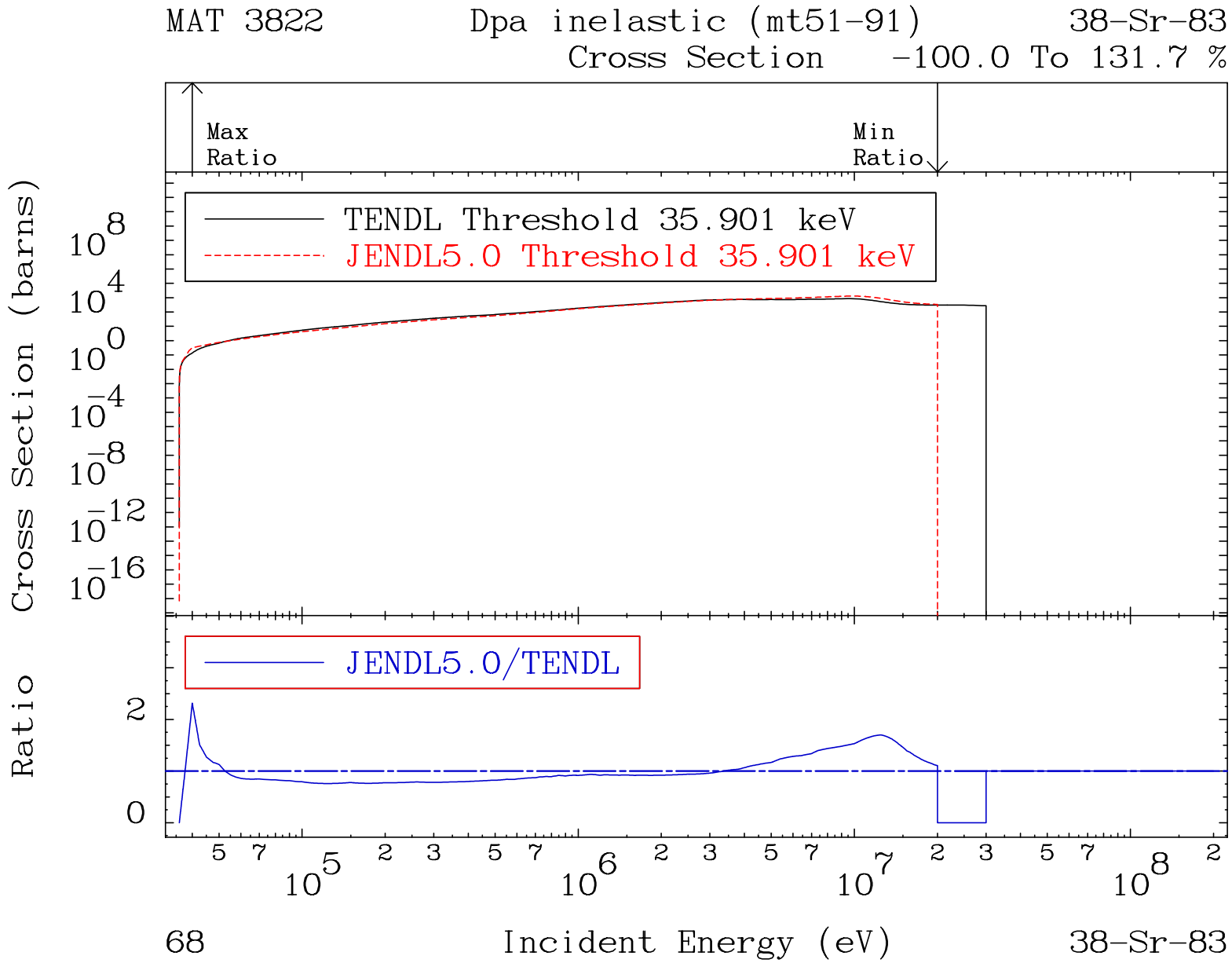

MAT 3822
Kerma capture (mt102)
38-Sr-83
Cross Section -100.0 To 5909. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
JENDL5.0/TENDL
Ratio
80
40
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
63
Incident Energy (eV)
38-Sr-83

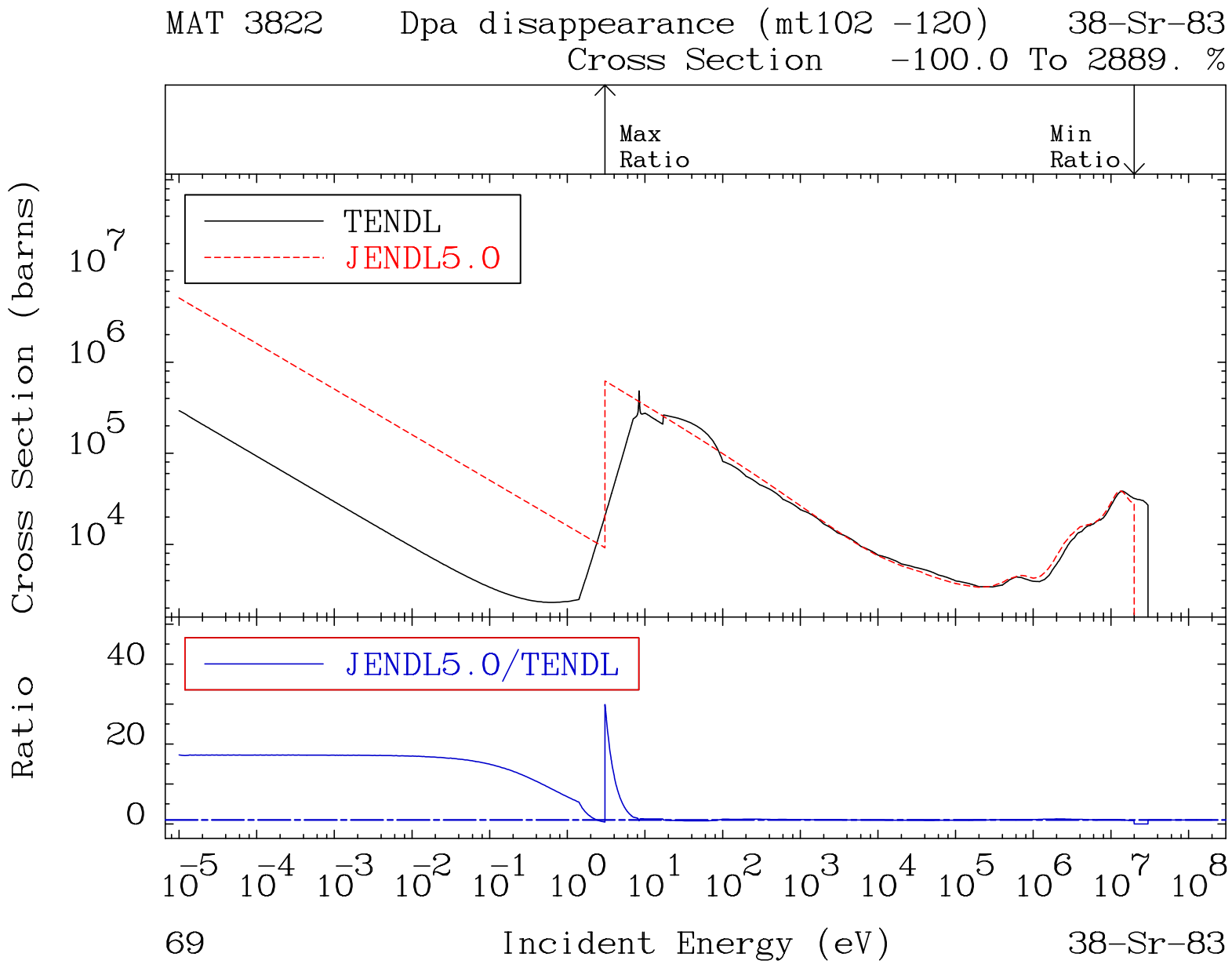

MAT 3822
Total photon (eV-barns)
38-Sr-83
Cross Section -98.16 To 3338. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
38-Sr-83

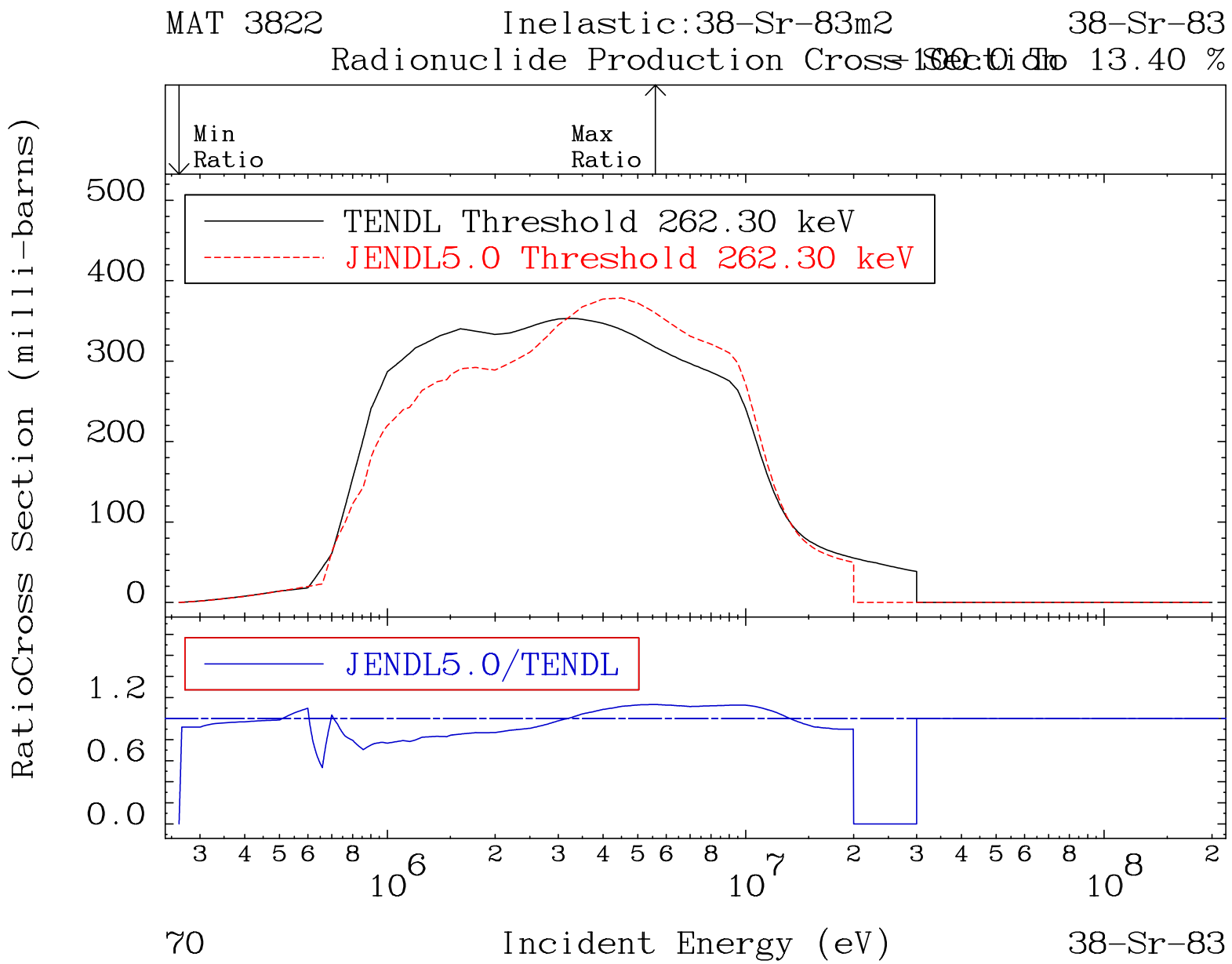

MAT 3822 Total kinematic kerma (high limit) 38-Sr-83
Cross Section -49.83 To 3299. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
38-Sr-83

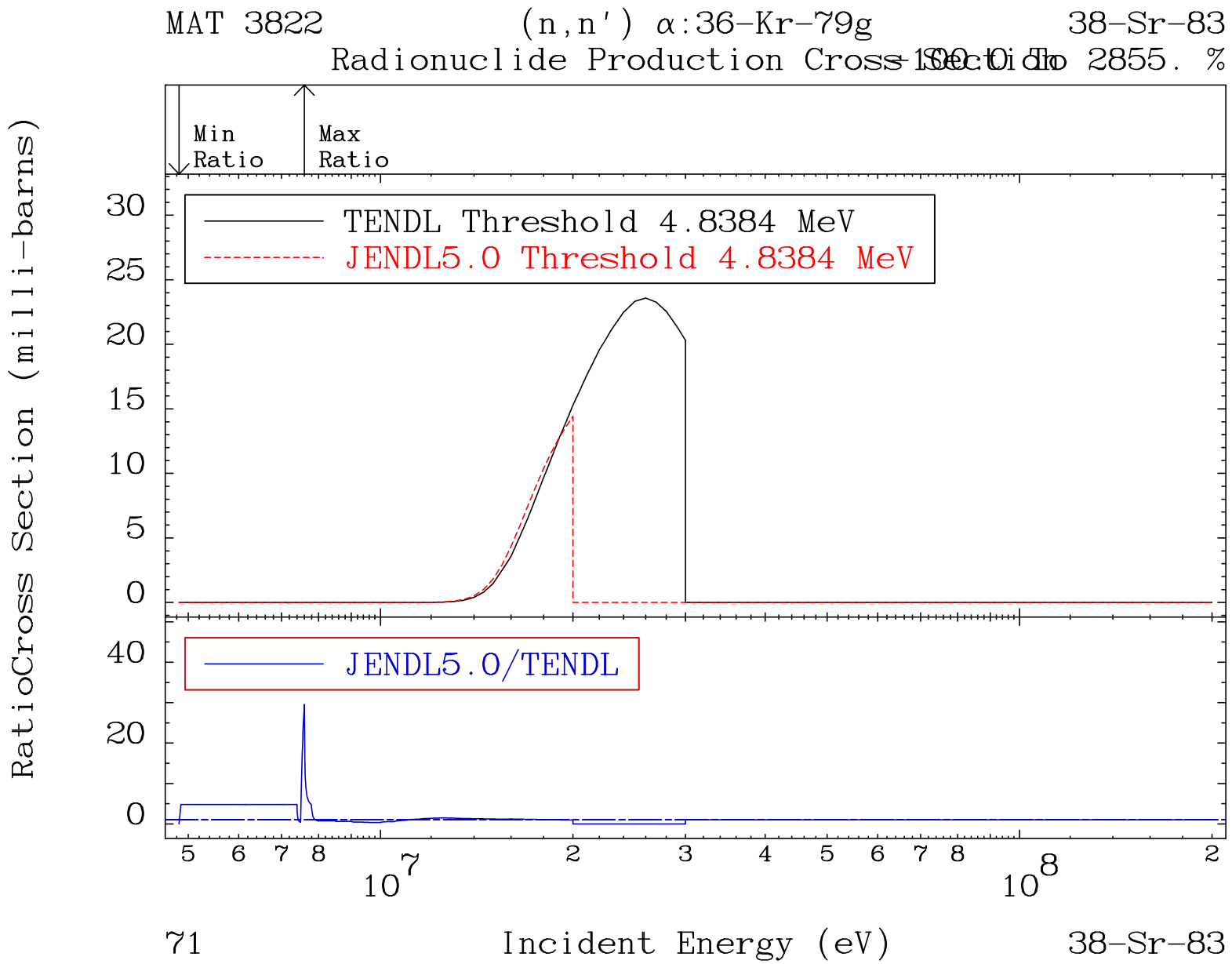

MAT 3822
Dpa total (eV-barns)
38-Sr-83
Cross Section -97.04 To 2889. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
38-Sr-83

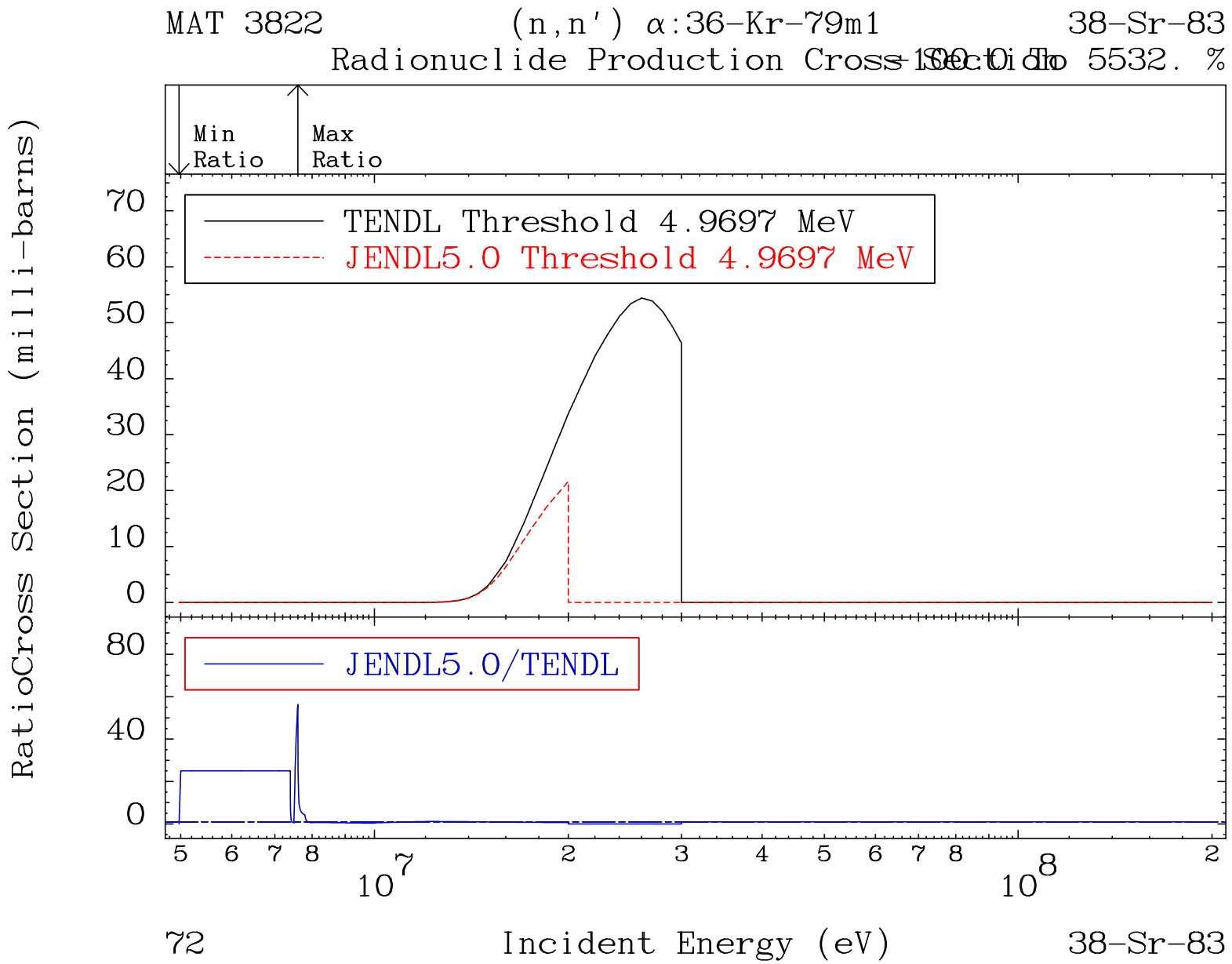

MAT 3822
Dpa elastic (mt2)
Cross Section
38-Sr-83
-17.05 To 9.236 %
Max
Ratio
Min
Ratio
TENDL Threshold 600.00 eV
JENDL5.0 Threshold 525.00 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
67
38-Sr-83

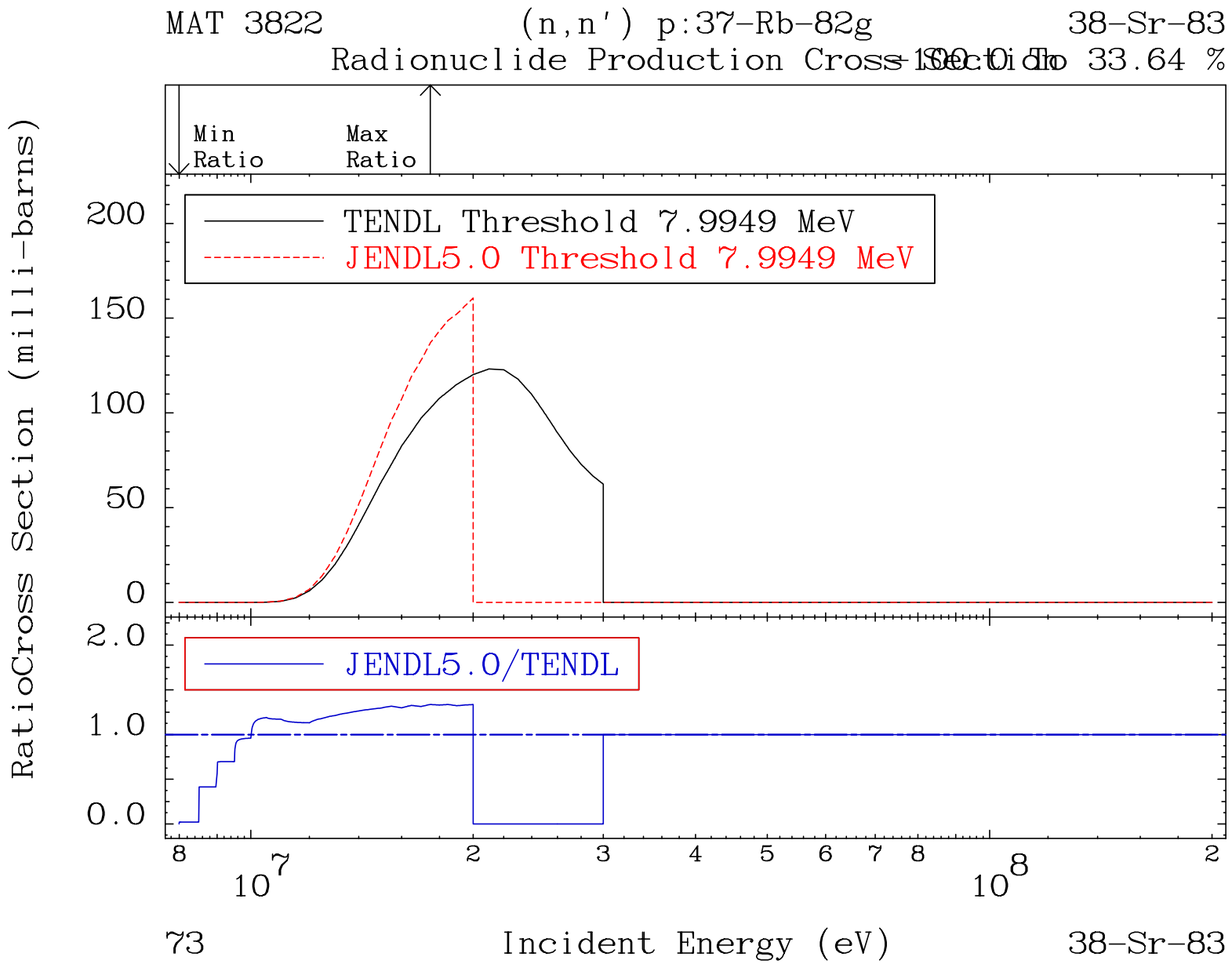

MAT 3822
Dpa inelastic (mt51-91)
38-Sr-83
Cross Section -100.0 To 131.7 %
Max Ratio
Min Ratio
TENDL Threshold 35.901 keV
JENDL5.0 Threshold 35.901 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
68
38-Sr-83

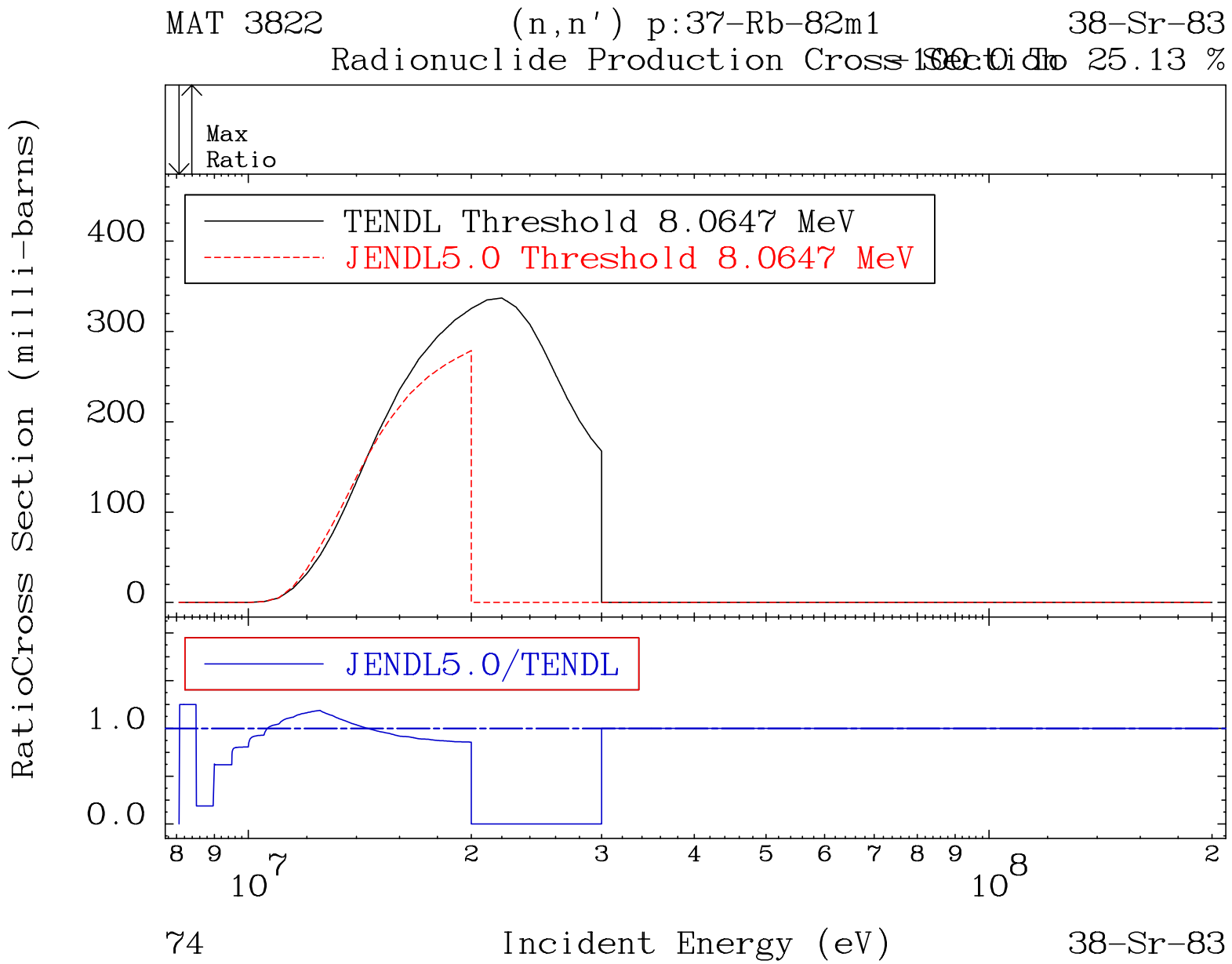

MAT 3822 Dpa disappearance (mt102 -120) 38-Sr-83
Cross Section -100.0 To 2889. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^7
10^6
10^5
10^4
JENDL5.0/TENDL
Ratio
40
20
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
69
Incident Energy (eV)
38-Sr-83

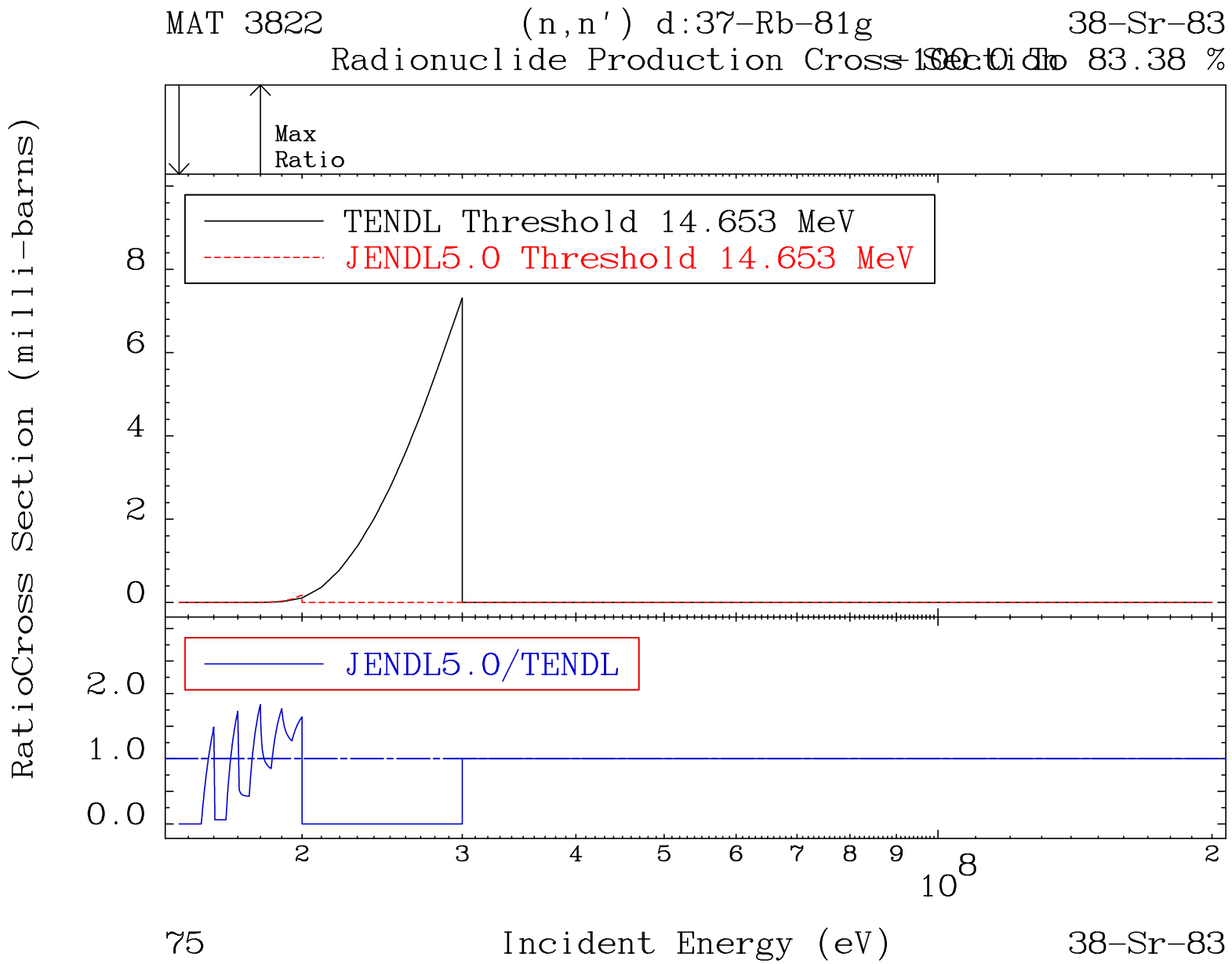

MAT 3822
Inelastic:38-Sr-83m2
38-Sr-83
Radionuclide Production Cross Section To 13.40 %
Min Ratio
Max Ratio
TENDL Threshold 262.30 keV
JENDL5.0 Threshold 262.30 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.2
0.6
0.0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
70
Incident Energy (eV)
38-Sr-83

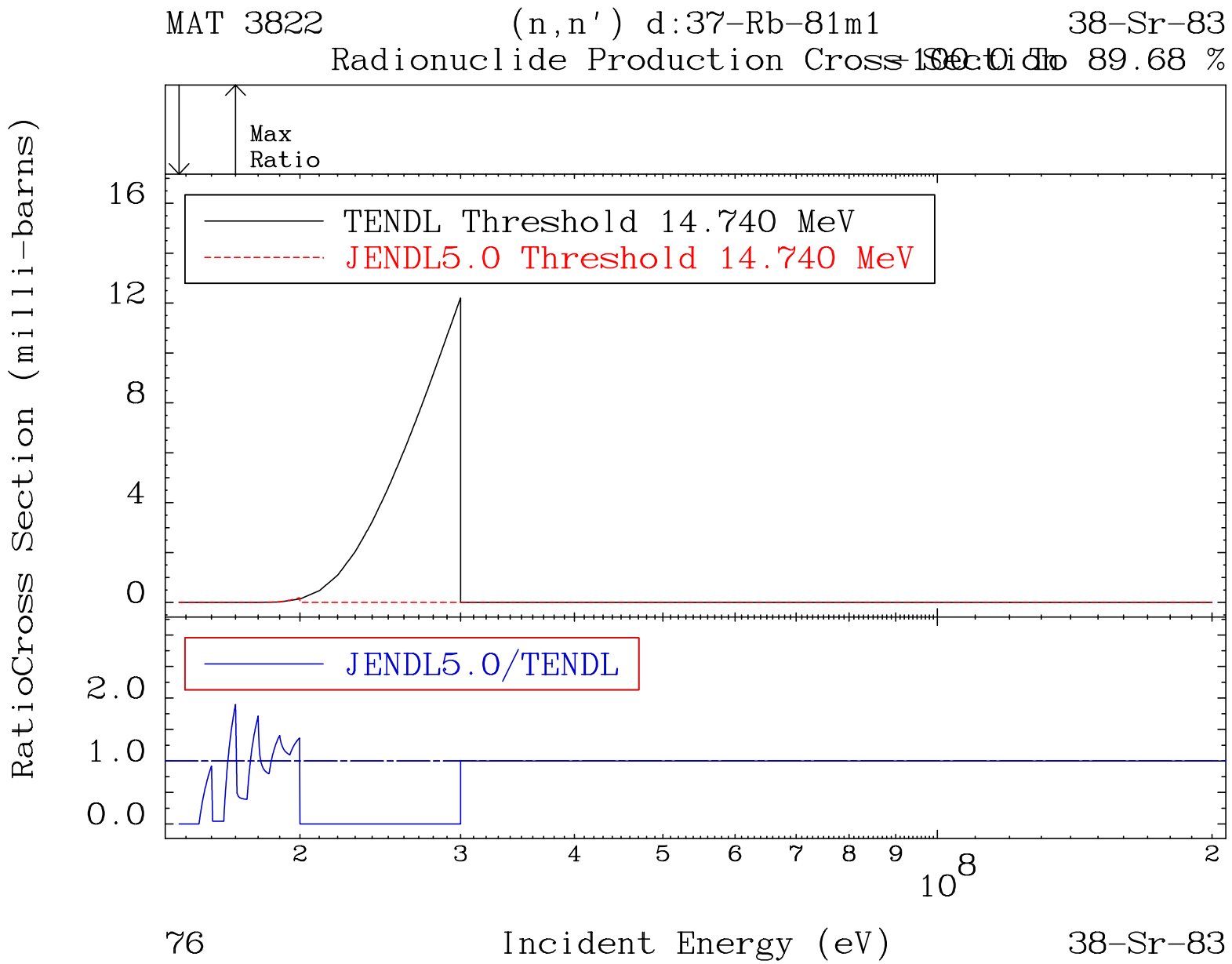

MAT 3822
(n,n') α:36-Kr-79g
38-Sr-83
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 4.8384 MeV
JENDL5.0 Threshold 4.8384 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
38-Sr-83

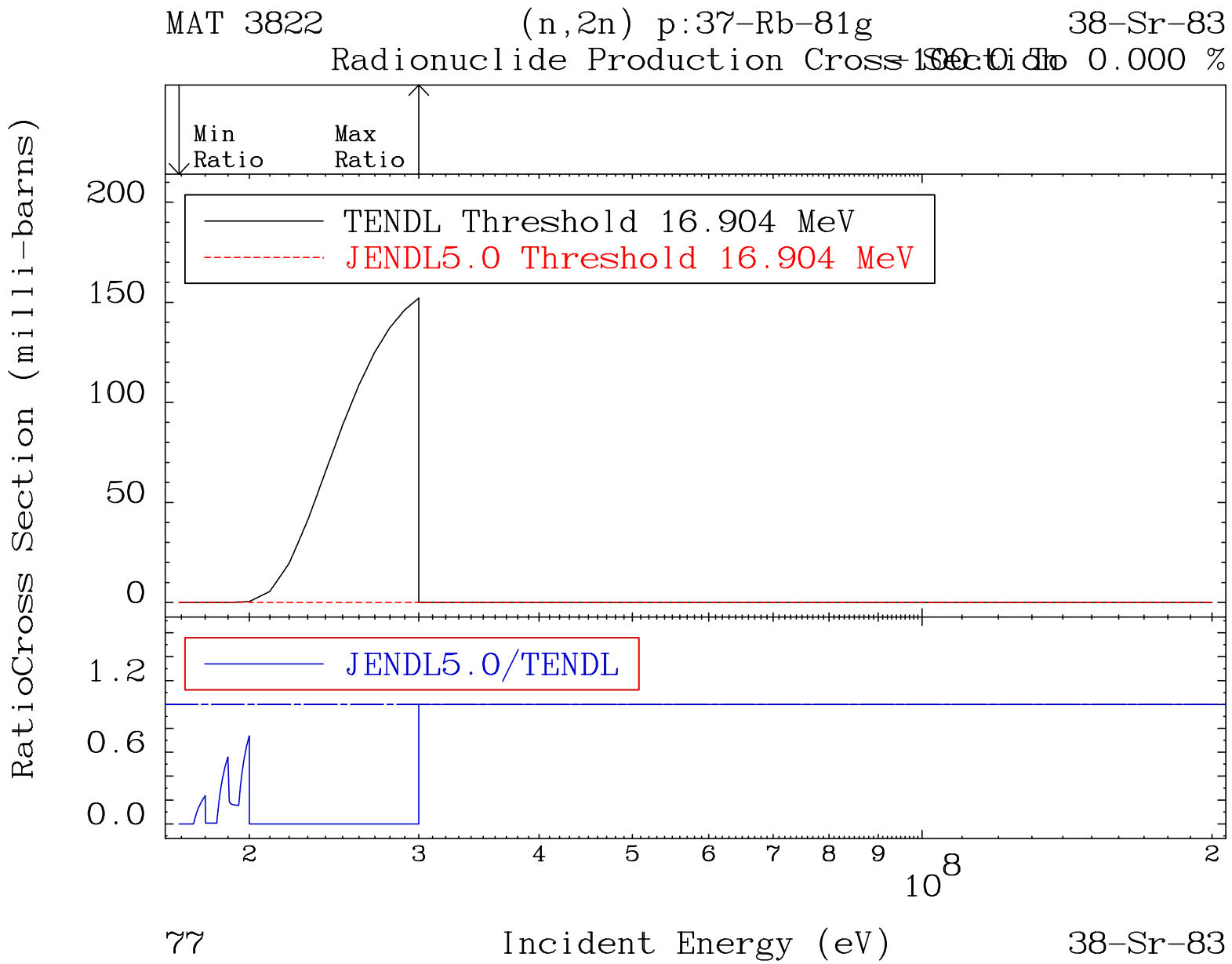

MAT 3822
(n,n') α:36-Kr-79m1
38-Sr-83
Radionuclide Production Cross Section To 5532. %
Min Ratio
Max Ratio
TENDL Threshold 4.9697 MeV
JENDL5.0 Threshold 4.9697 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
38-Sr-83

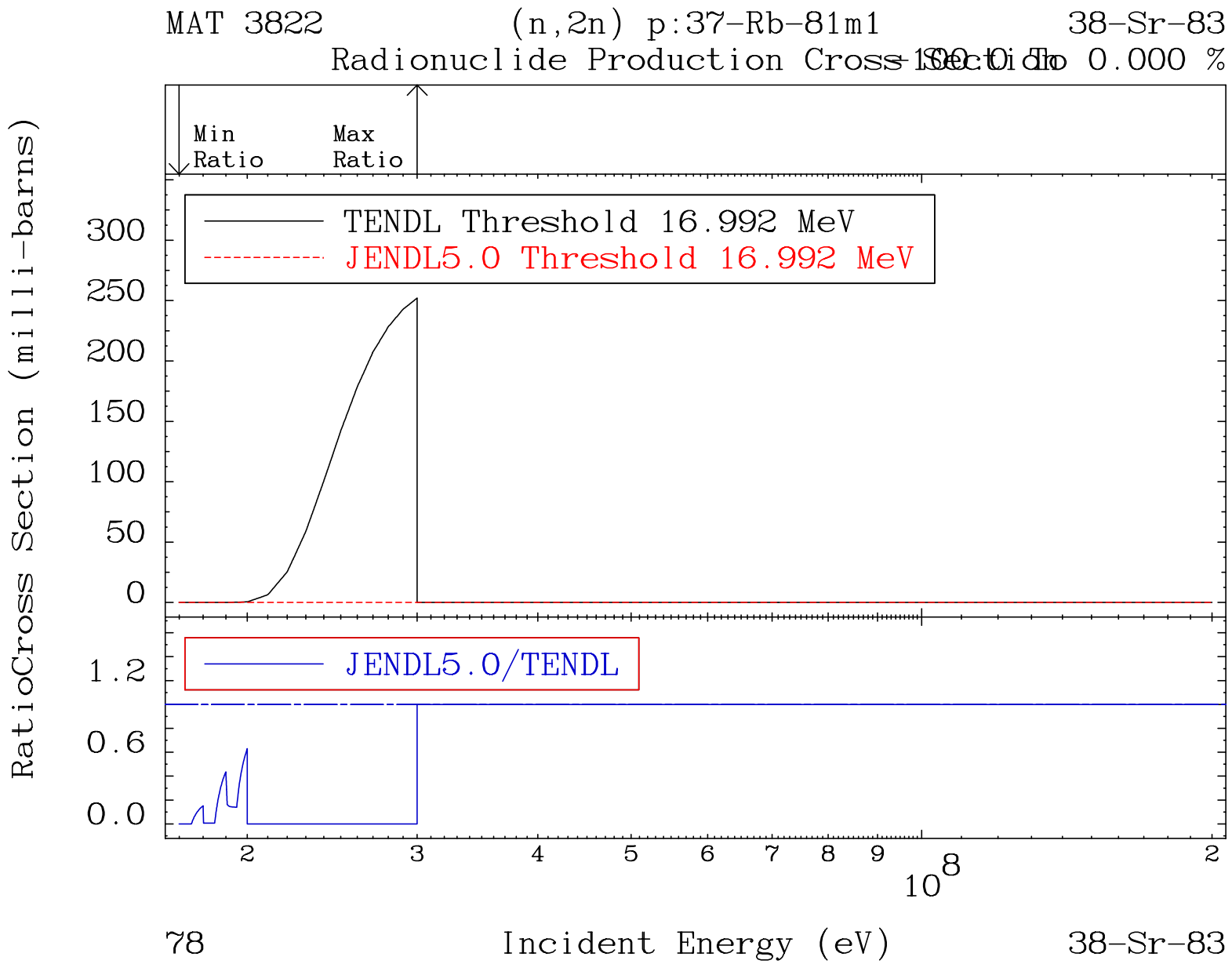

MAT 3822
(n,n') p:37-Rb-82g
38-Sr-83
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.9949 MeV
JENDL5.0 Threshold 7.9949 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
38-Sr-83

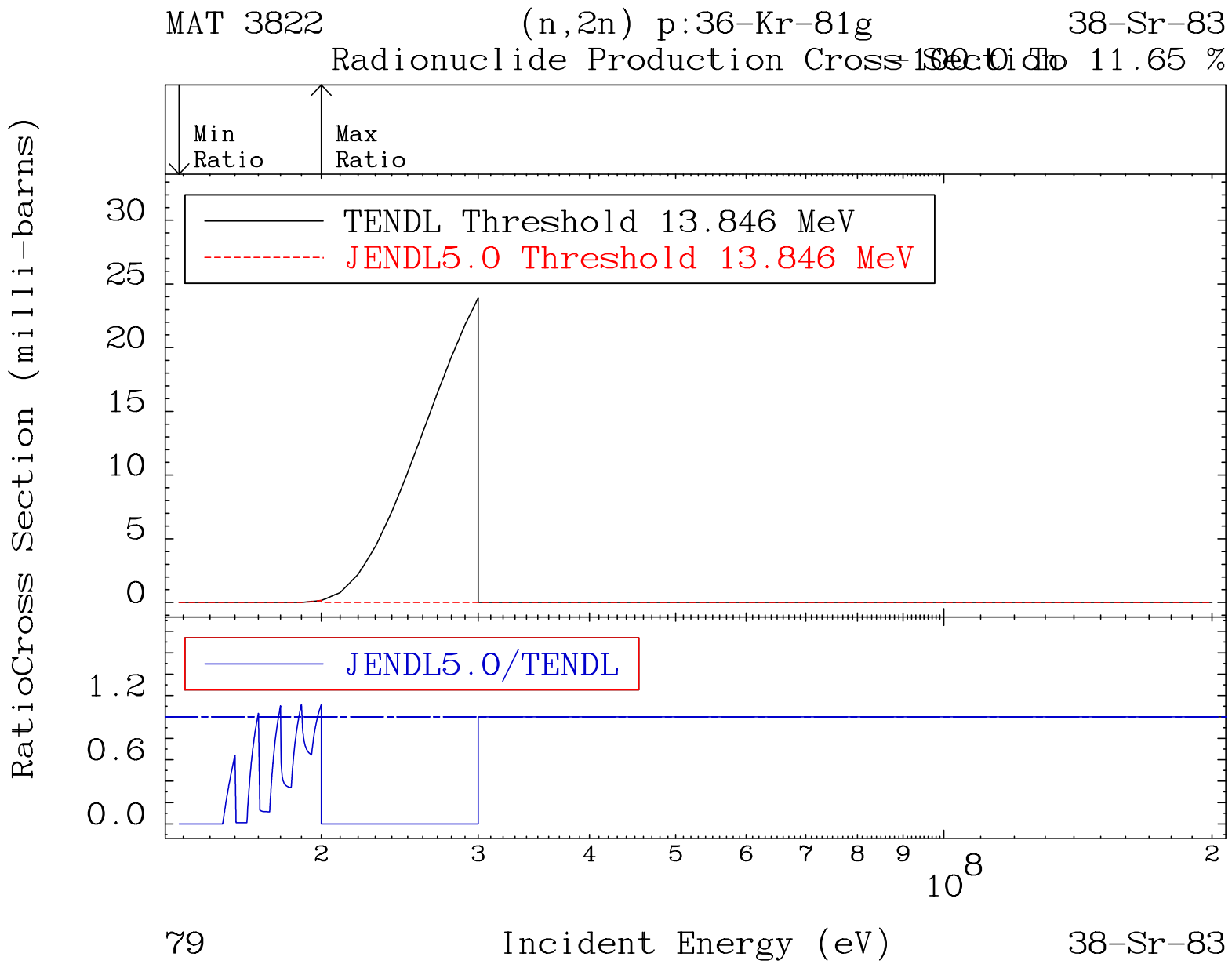

MAT 3822
(n,n') p:37-Rb-82m1
38-Sr-83
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.0647 MeV
JENDL5.0 Threshold 8.0647 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.0
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
74
Incident Energy (eV)
38-Sr-83

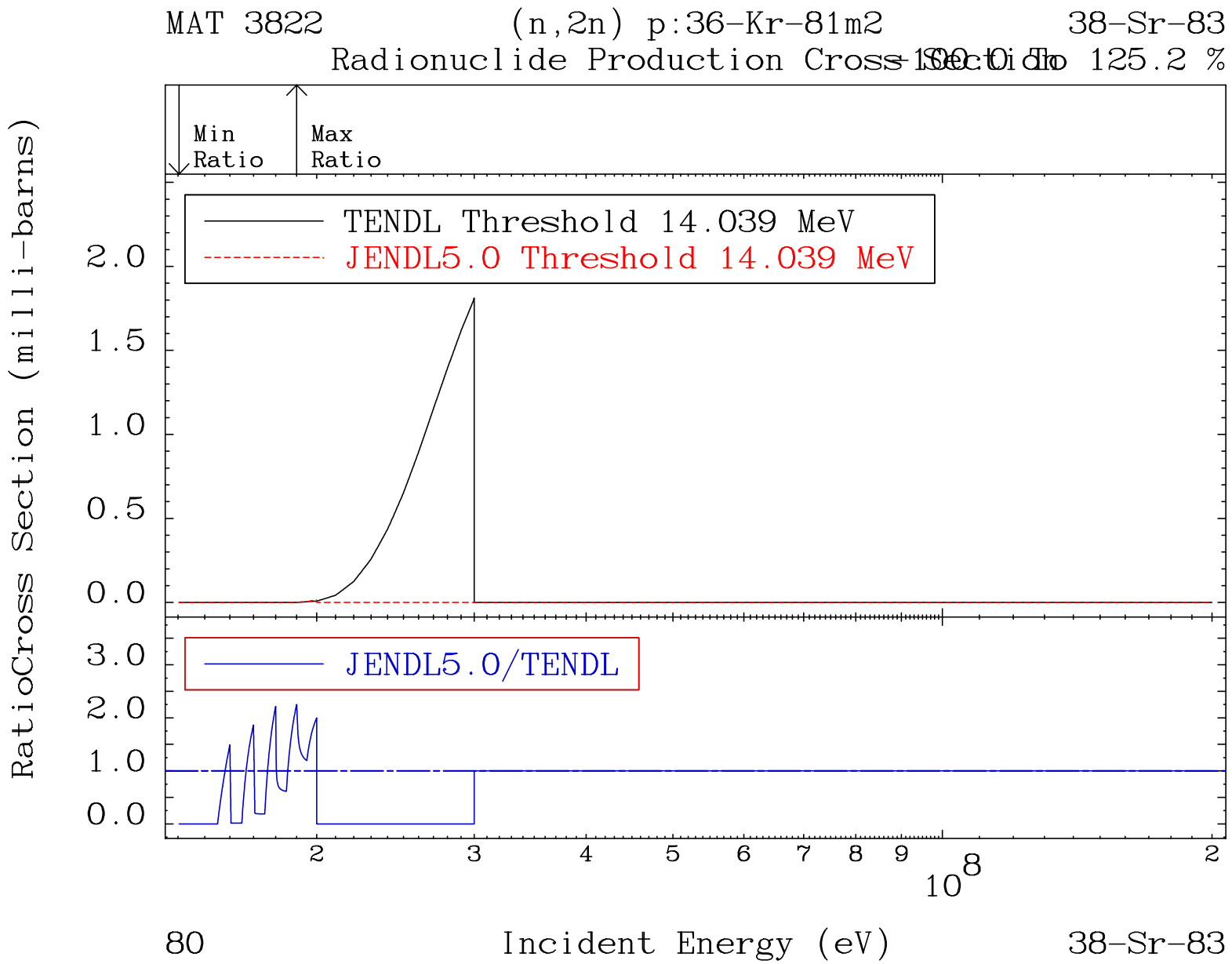

MAT 3822
(n,n') d:37-Rb-81g
38-Sr-83
Radionuclide Production Cross Section To 83.38 %
Max
Ratio
TENDL Threshold 14.653 MeV
JENDL5.0 Threshold 14.653 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
0.0
1.0
2.0
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
38-Sr-83

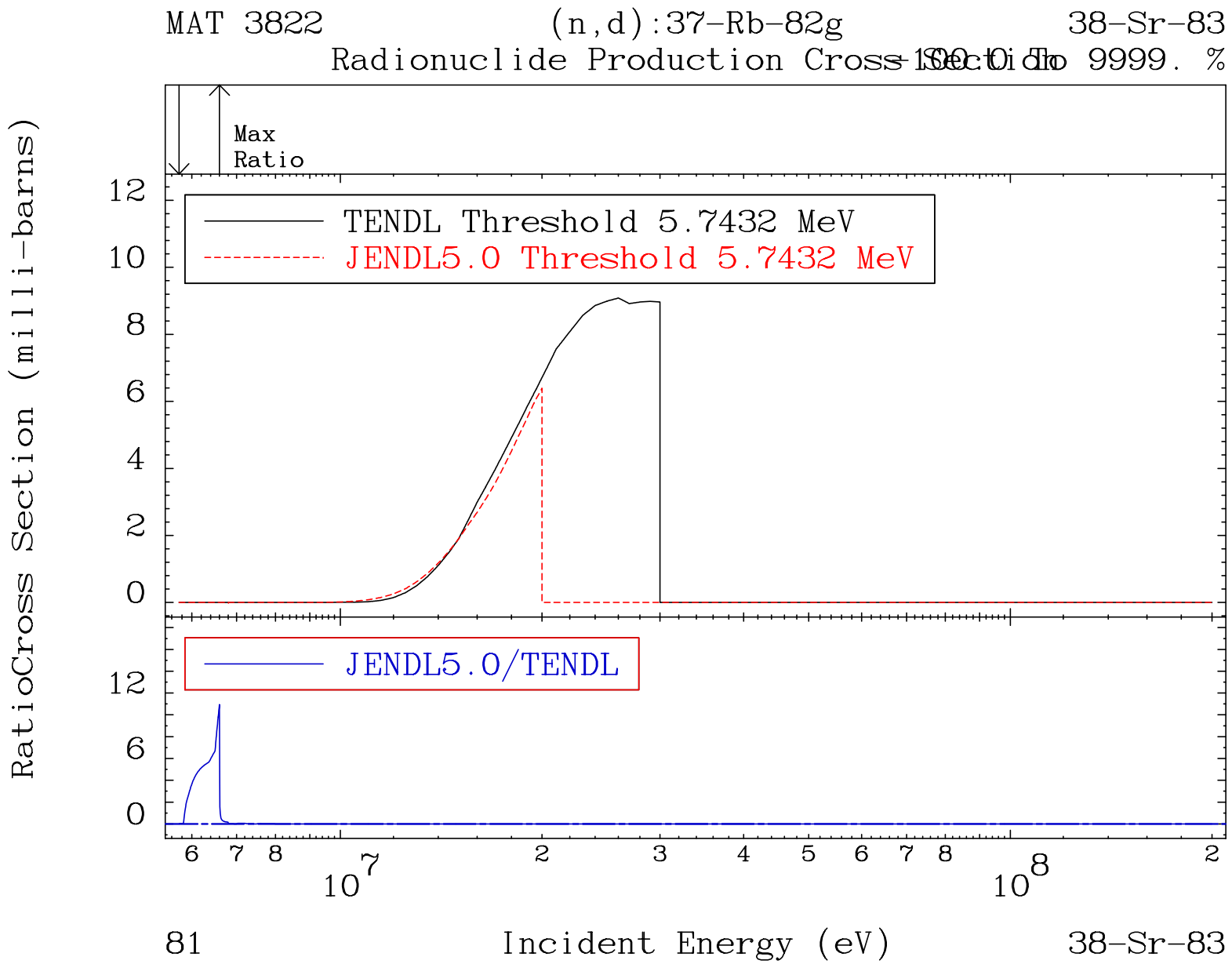

MAT 3822
(n,n') d:37-Rb-81m1
38-Sr-83
Radionuclide Production Cross Section To 89.68 %
Max
Ratio
TENDL Threshold 14.740 MeV
JENDL5.0 Threshold 14.740 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
76
Incident Energy (eV)
38-Sr-83

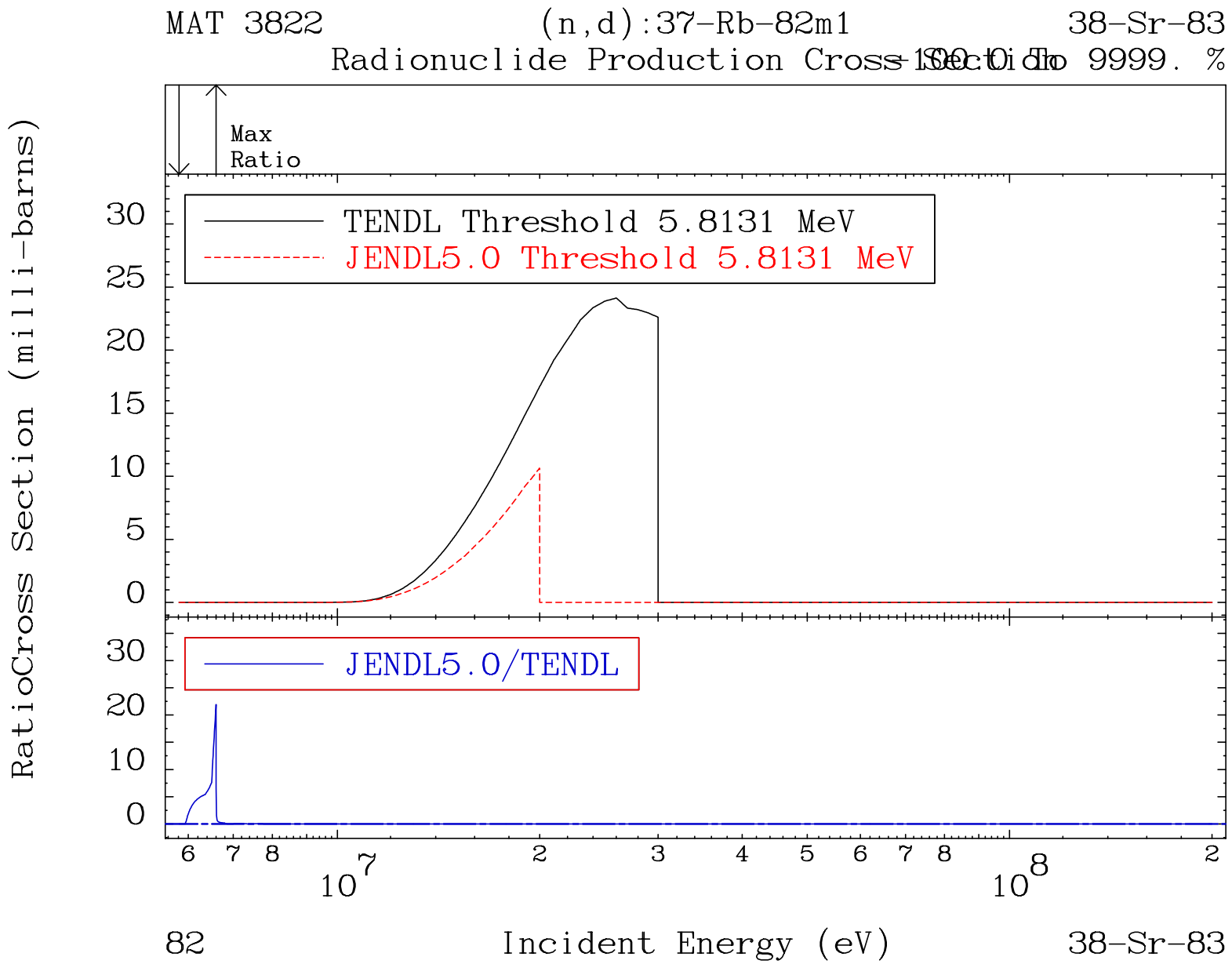

MAT 3822
(n,2n) p:37-Rb-81g
38-Sr-83
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.904 MeV
JENDL5.0 Threshold 16.904 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
38-Sr-83

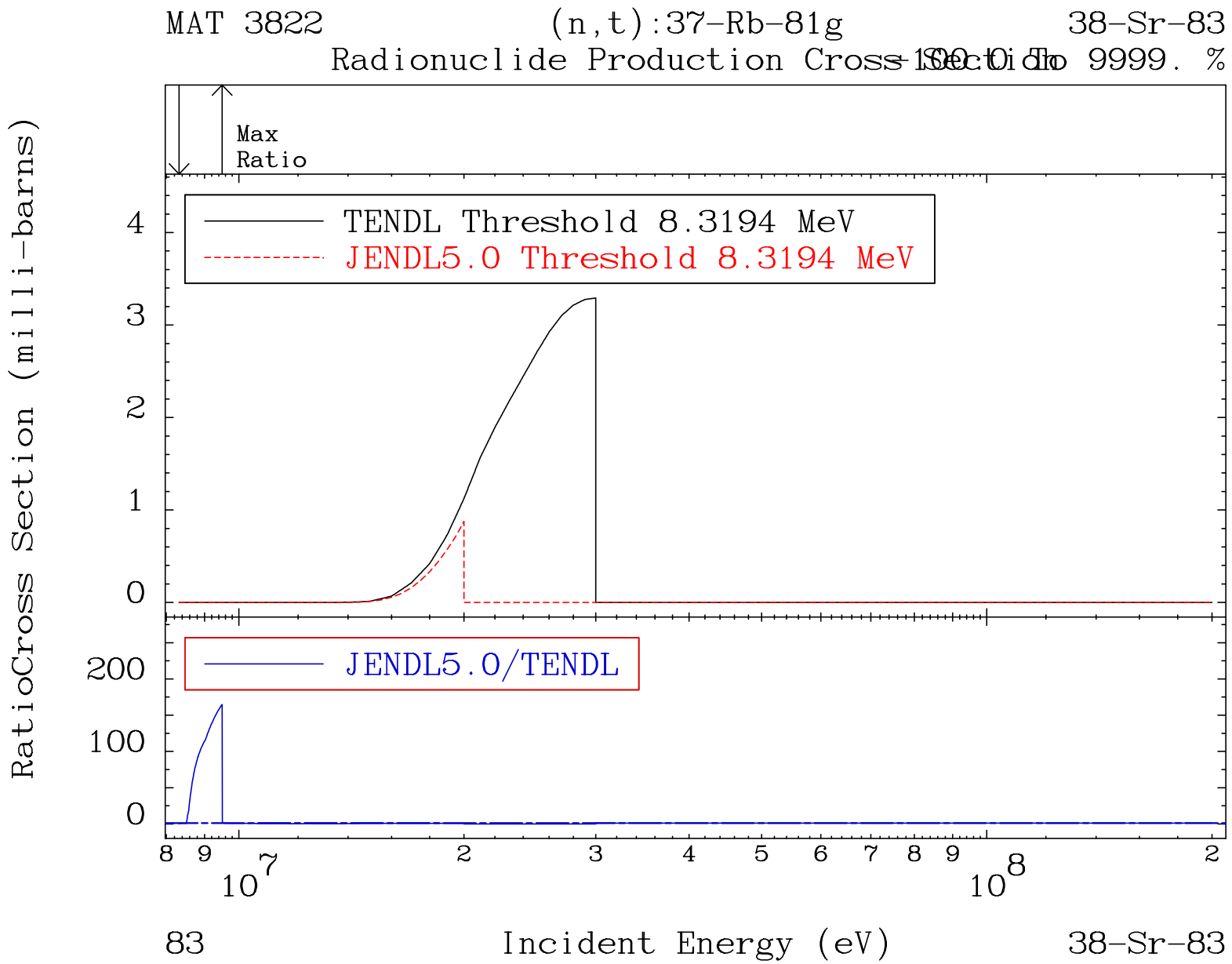

MAT 3822
(n,2n) p:37-Rb-81m1
38-Sr-83
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.992 MeV
JENDL5.0 Threshold 16.992 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
38-Sr-83

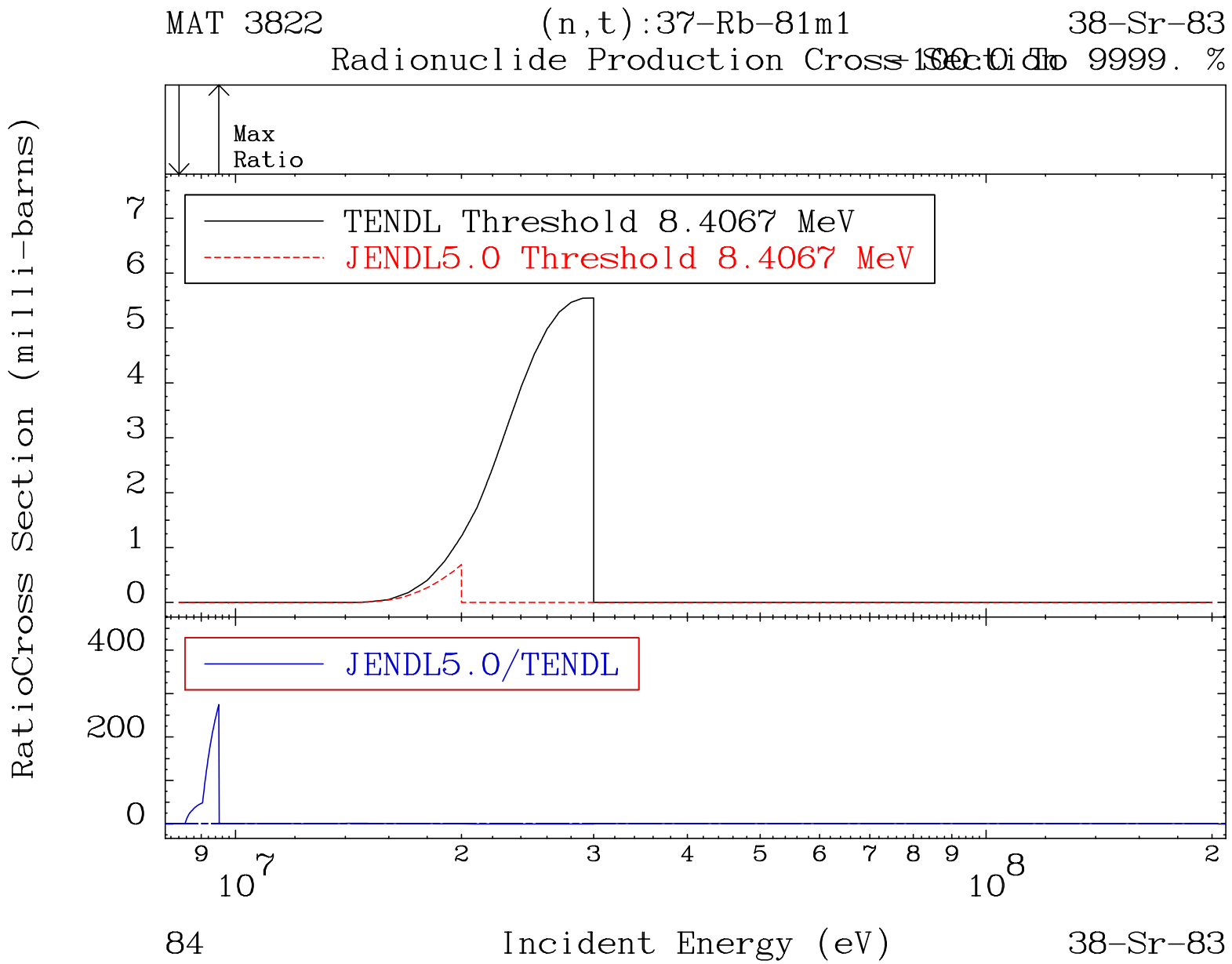

MAT 3822
(n,2n) p:36-Kr-81g
38-Sr-83
Radionuclide Production Cross Section To 11.65 %
Min Ratio
Max Ratio
TENDL Threshold 13.846 MeV
JENDL5.0 Threshold 13.846 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
38-Sr-83

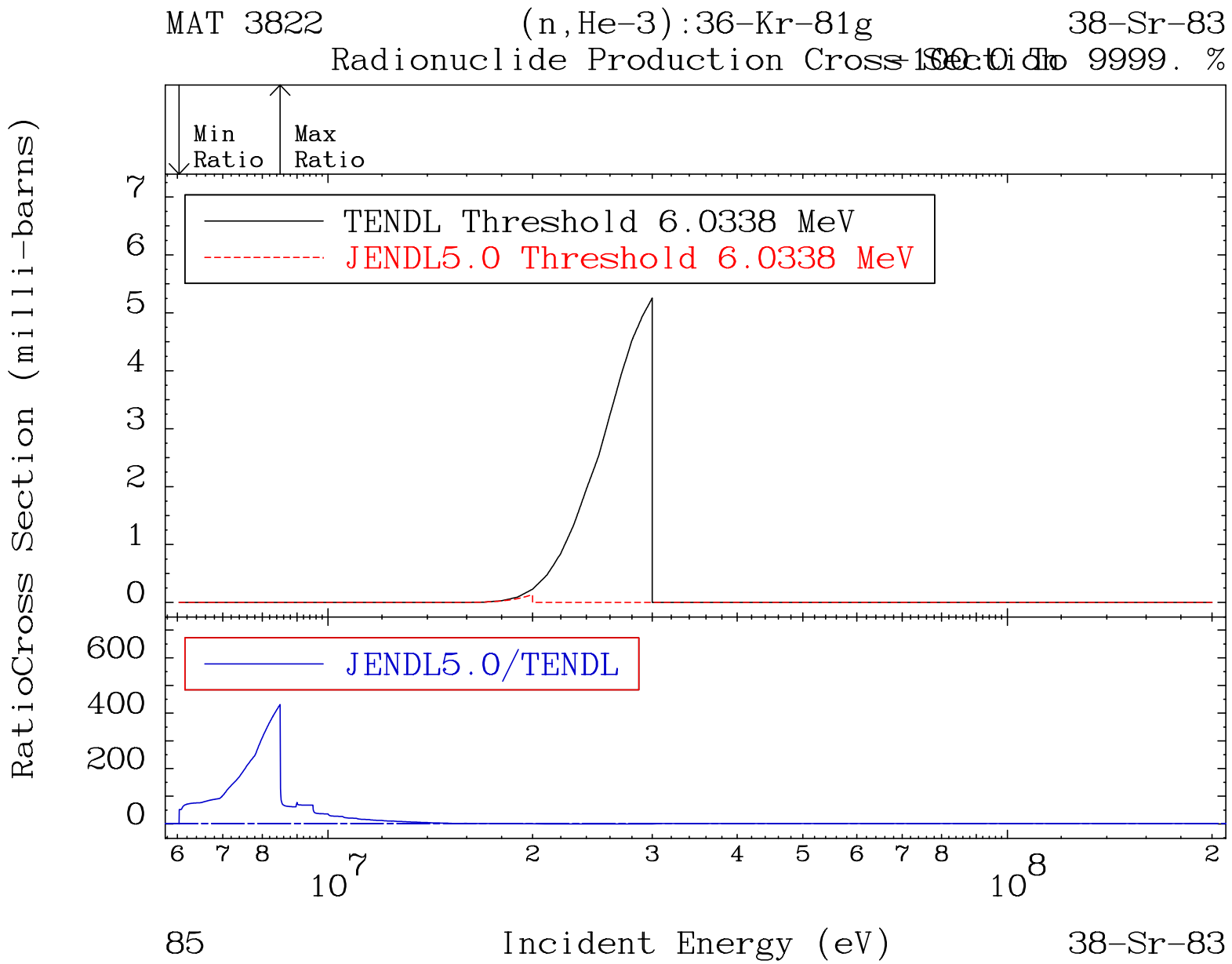

MAT 3822
(n,2n) p:36-Kr-81m2
38-Sr-83
Radionuclide Production Cross Section To 125.2 %
Min Ratio
Max Ratio
TENDL Threshold 14.039 MeV
JENDL5.0 Threshold 14.039 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
38-Sr-83

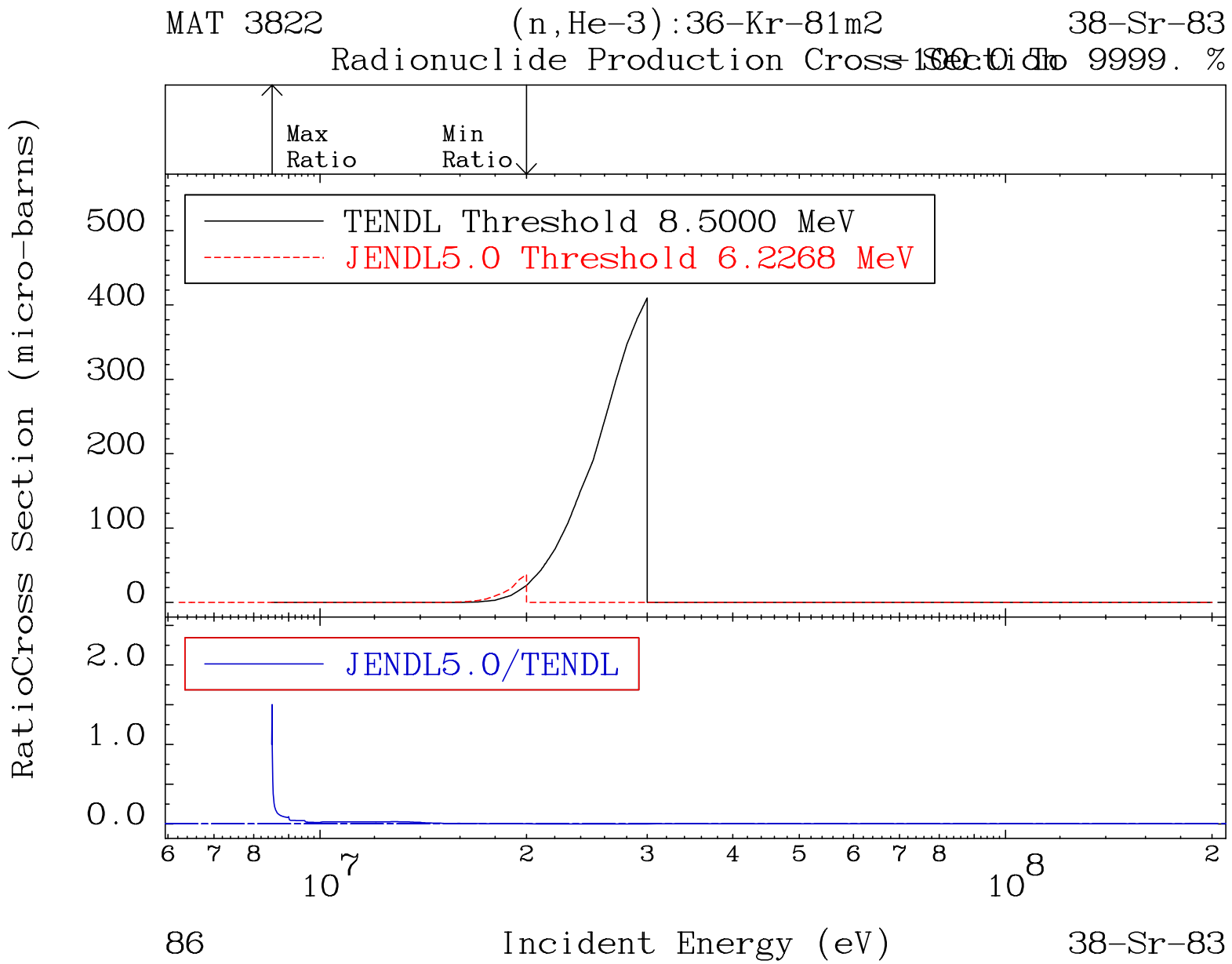

MAT 3822
(n,d):37-Rb-82g
38-Sr-83
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 5.7432 MeV
JENDL5.0 Threshold 5.7432 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
38-Sr-83

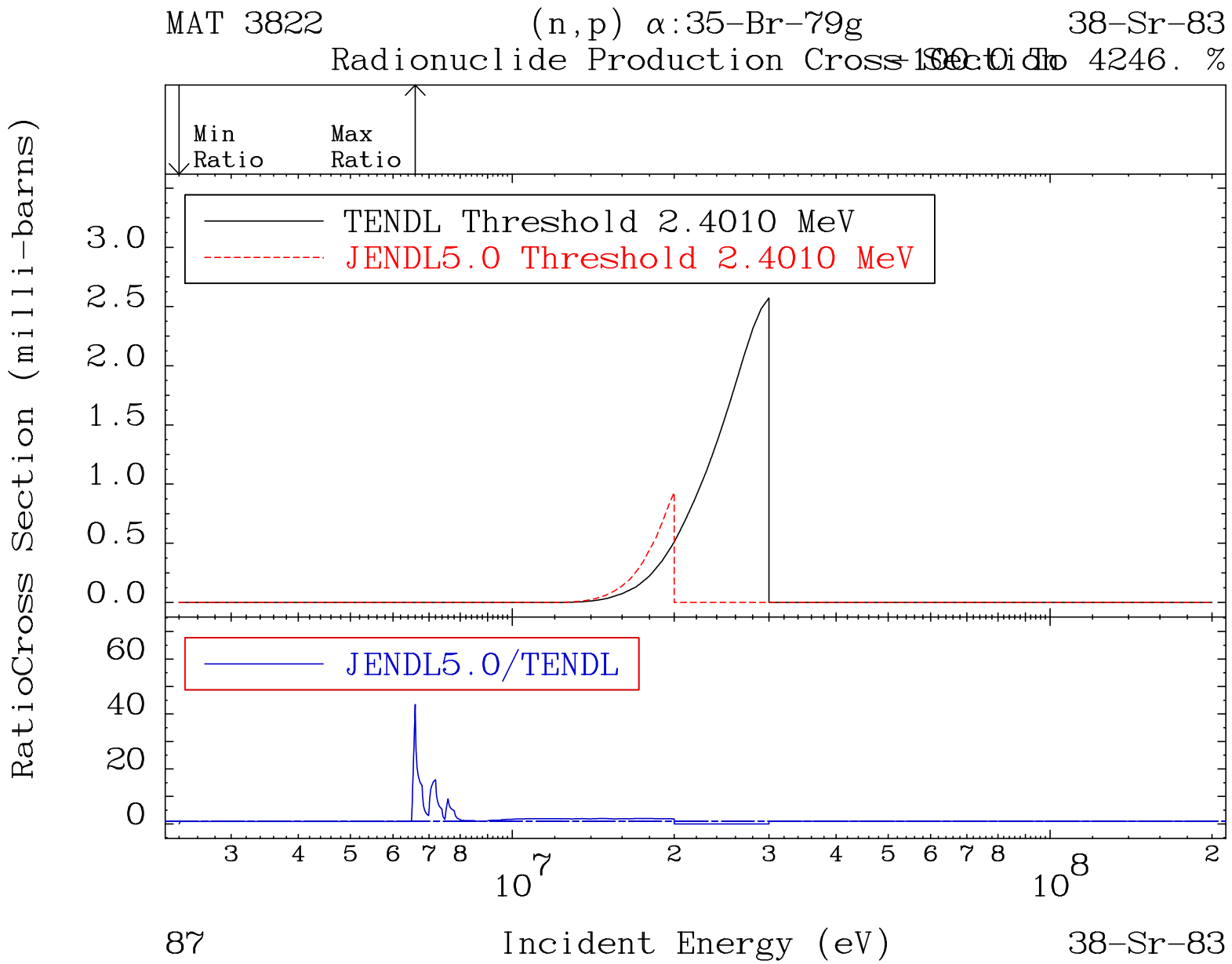

MAT 3822
(n,d):37-Rb-82m1
38-Sr-83
Radionuclide Production Cross Section
1.00 To 9999. %
Max
Ratio
TENDL Threshold 5.8131 MeV
JENDL5.0 Threshold 5.8131 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
30
20
10
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
82
Incident Energy (eV)
38-Sr-83

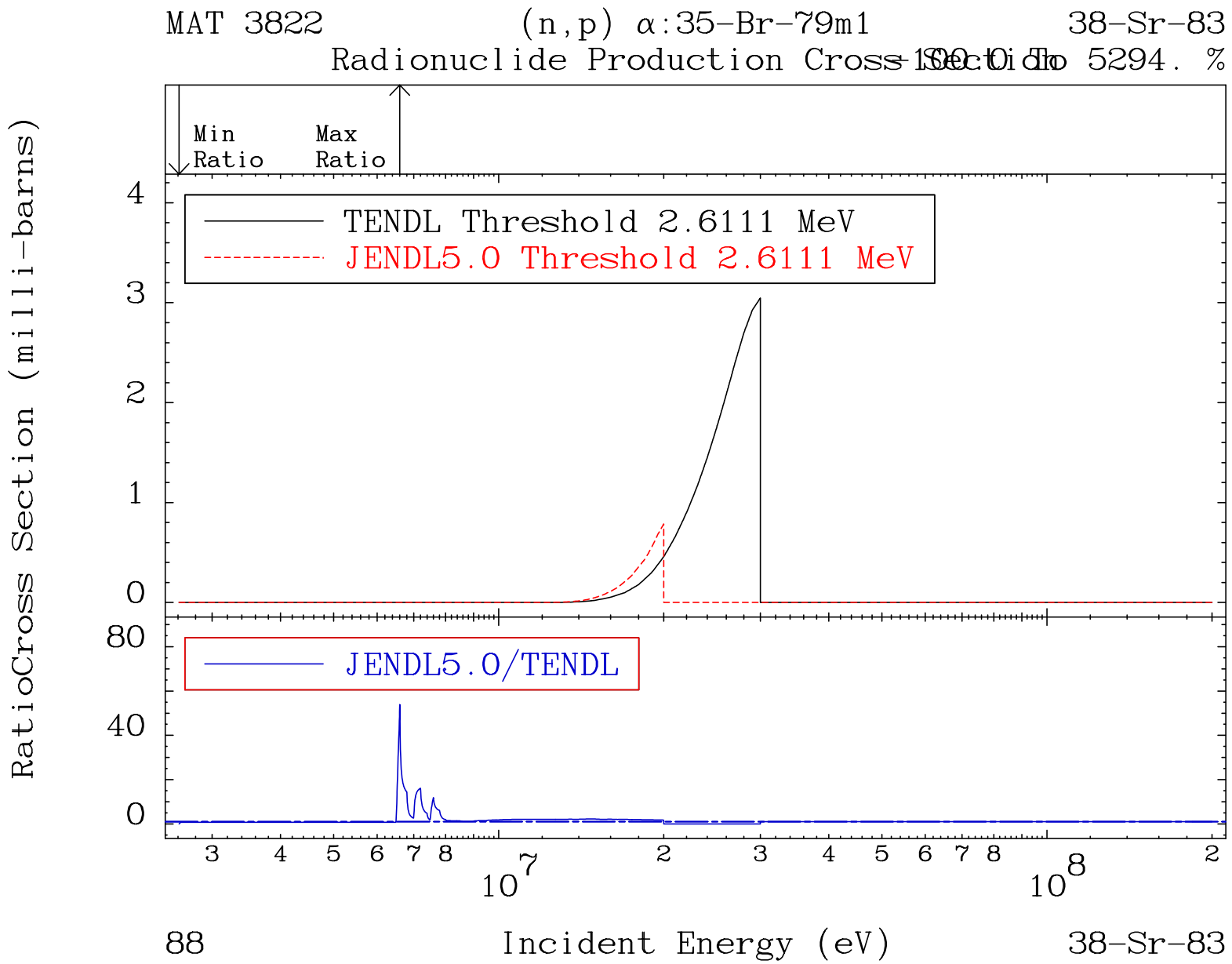

MAT 3822
(n,t):37-Rb-81g
38-Sr-83
Radionuclide Production Cross Section
100 To 9999. %
Max
Ratio
TENDL Threshold 8.3194 MeV
JENDL5.0 Threshold 8.3194 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
83
38-Sr-83

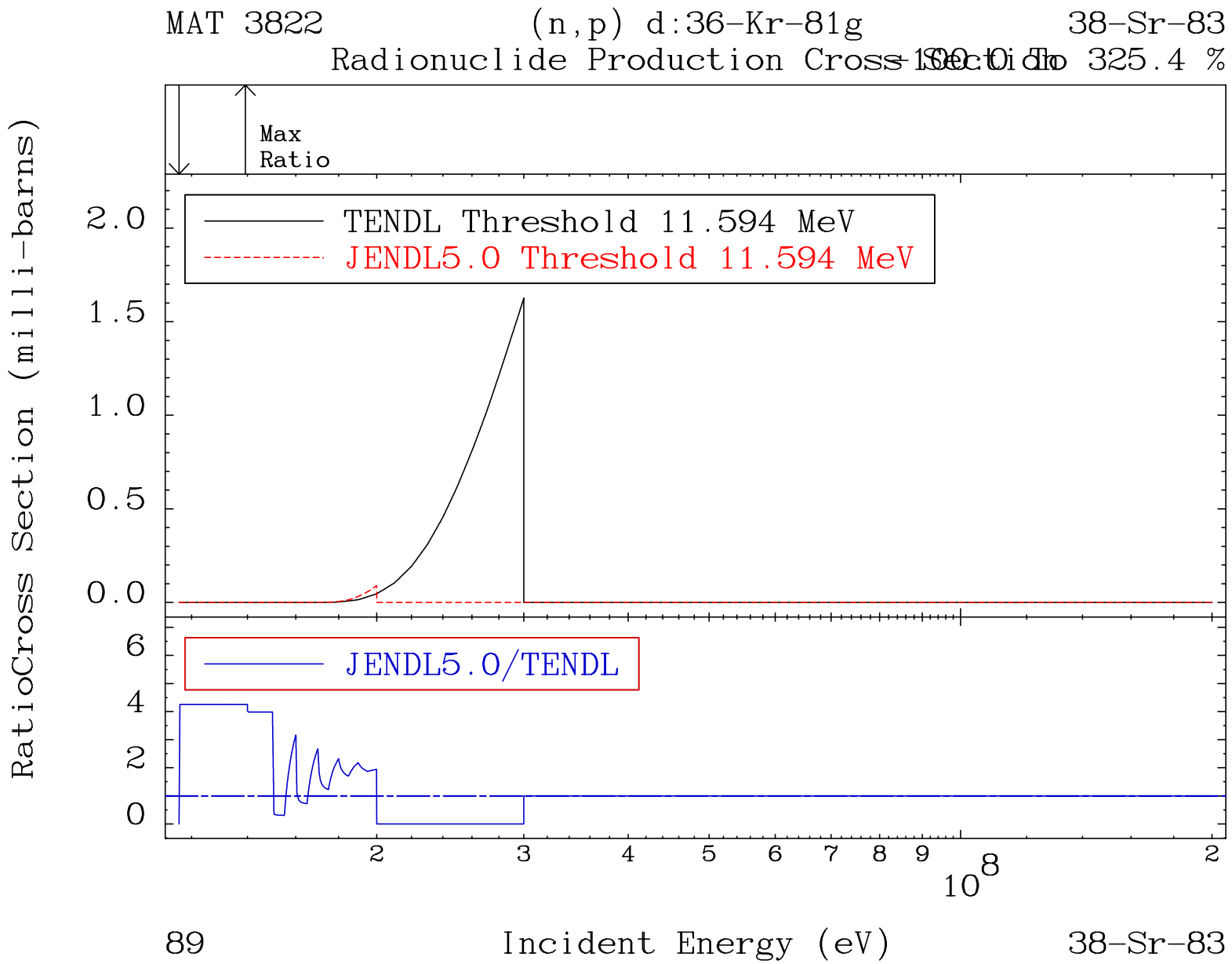

MAT 3822
(n,t):37-Rb-81m1
38-Sr-83
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.4067 MeV
JENDL5.0 Threshold 8.4067 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
84
38-Sr-83

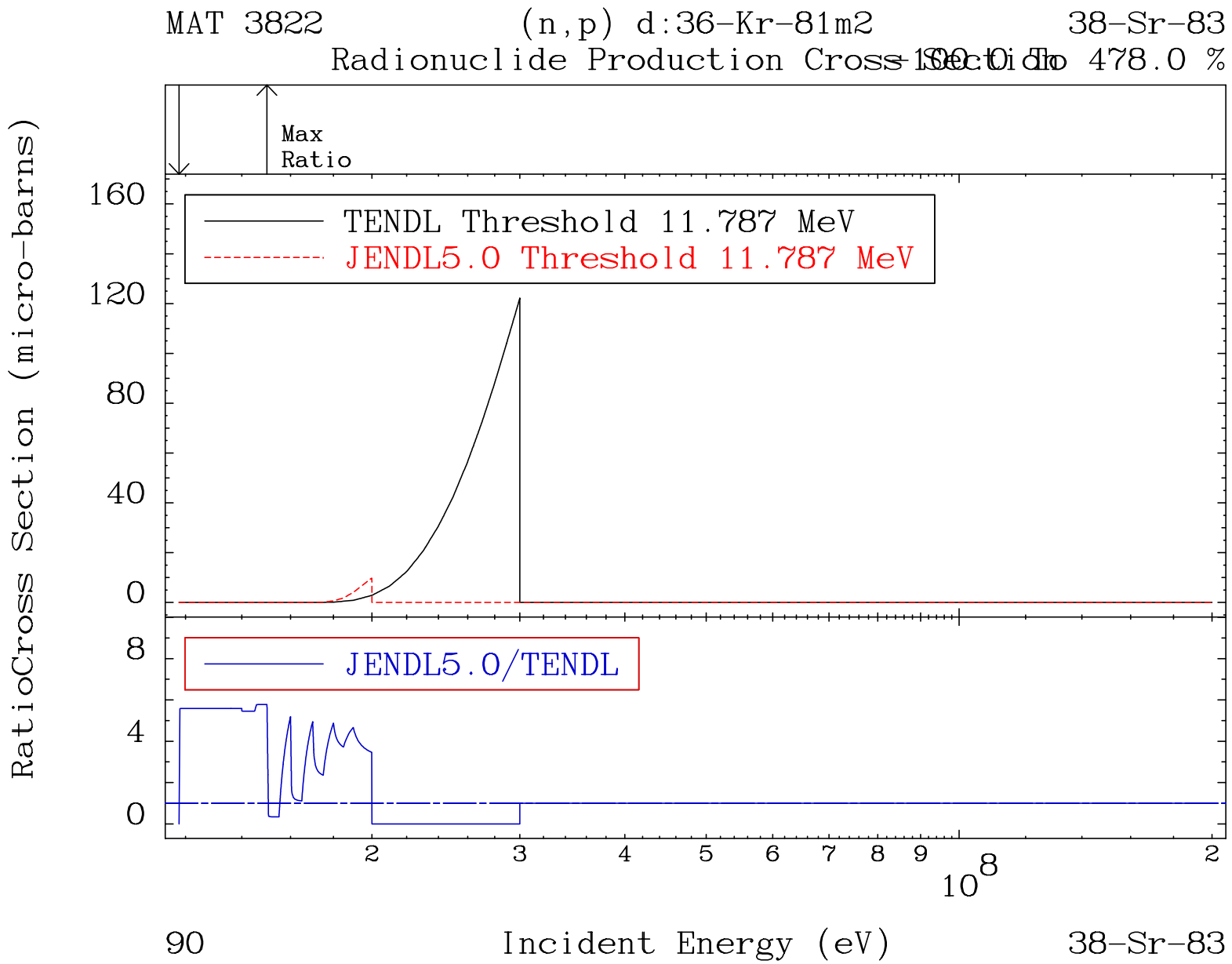

MAT 3822
(n,He-3):36-Kr-81g
38-Sr-83
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.0338 MeV
JENDL5.0 Threshold 6.0338 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
85
38-Sr-83

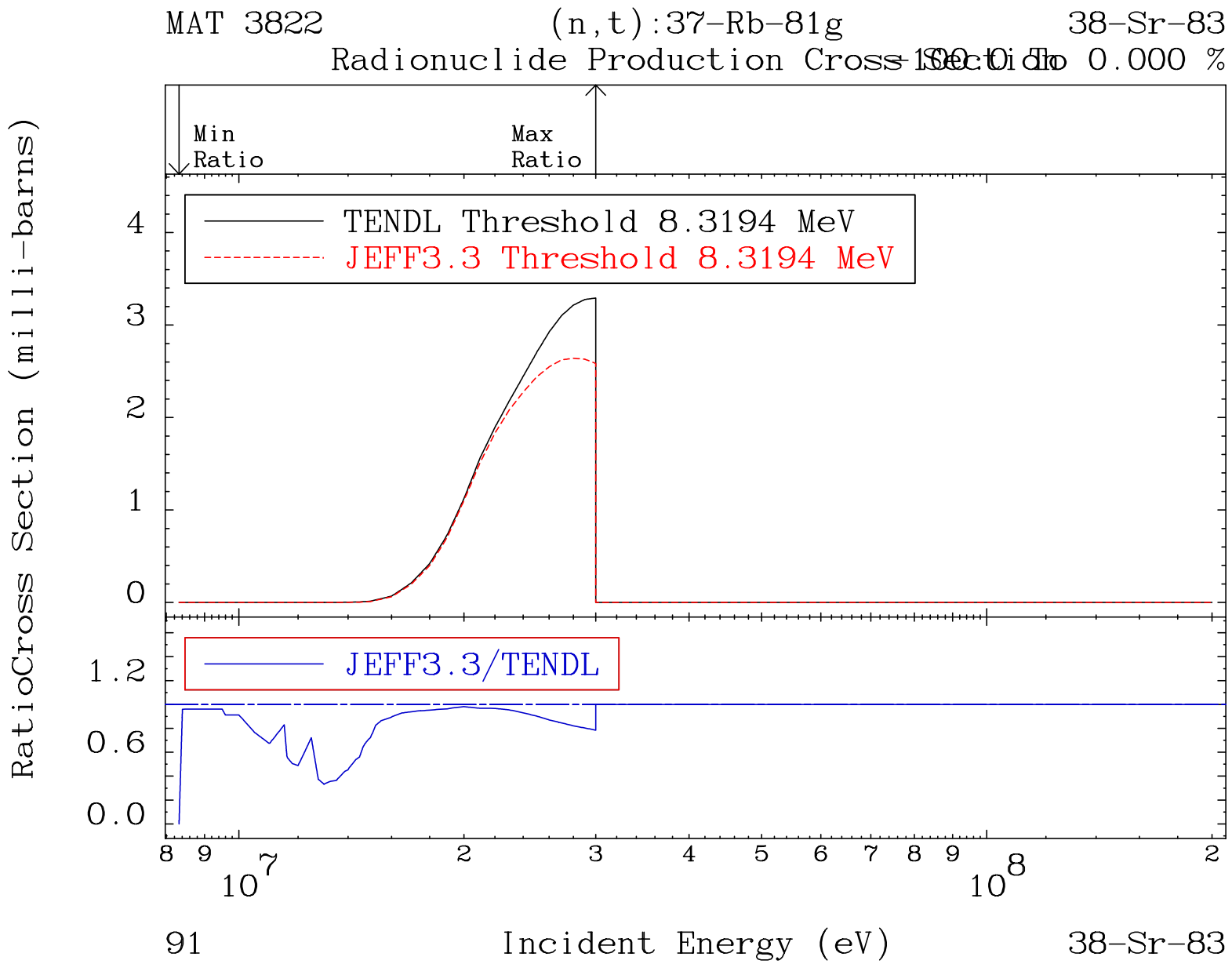

MAT 3822
(n,He-3):36-Kr-81m2
38-Sr-83
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 6.2268 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
86
38-Sr-83

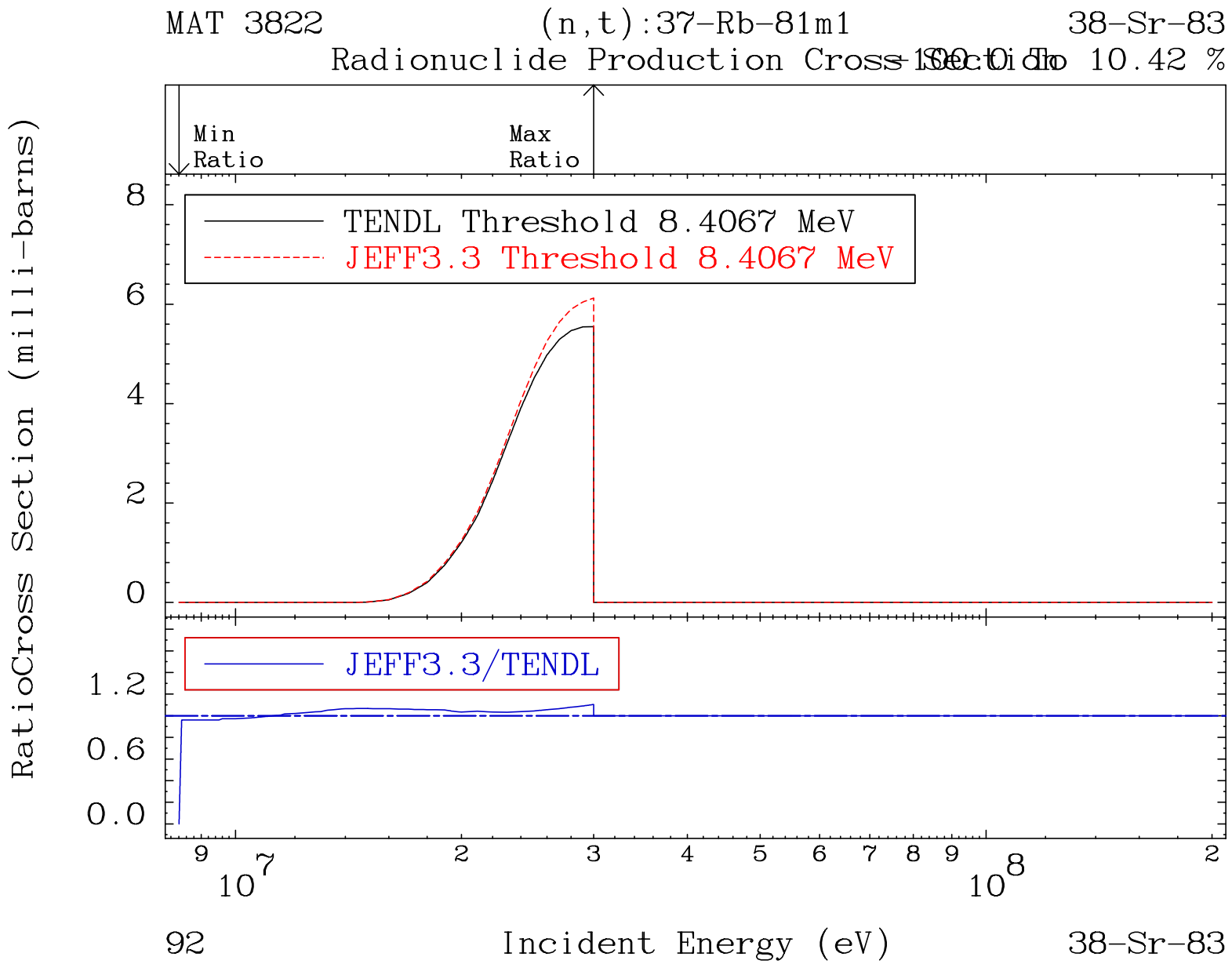

MAT 3822
(n,p) α:35-Br-79g
38-Sr-83
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 2.4010 MeV
JENDL5.0 Threshold 2.4010 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
87
38-Sr-83

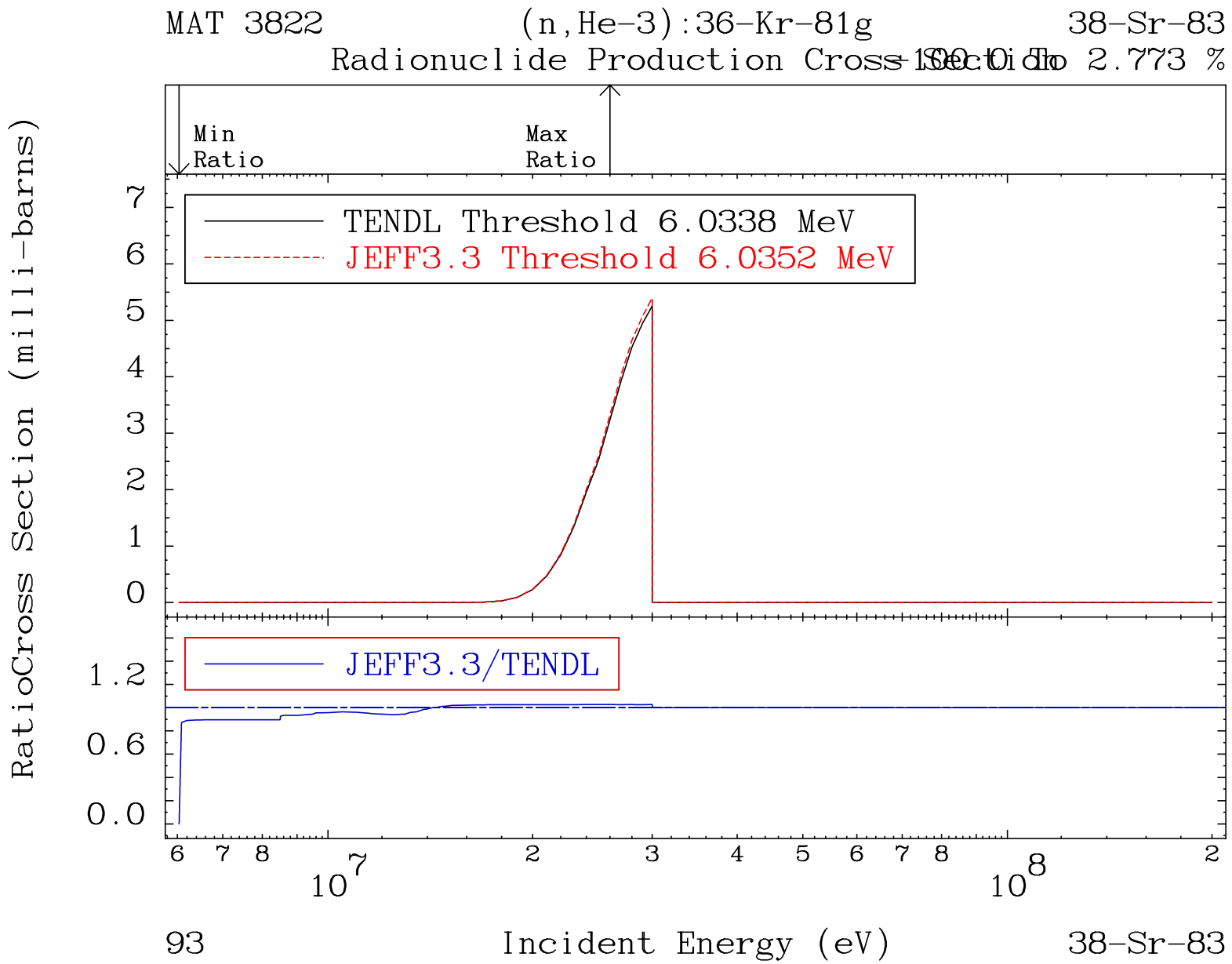

MAT 3822
(n,p) α:35-Br-79m1
38-Sr-83
Radionuclide Production Cross Section To 5294. %
Min Ratio
Max Ratio
TENDL Threshold 2.6111 MeV
JENDL5.0 Threshold 2.6111 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
88
38-Sr-83

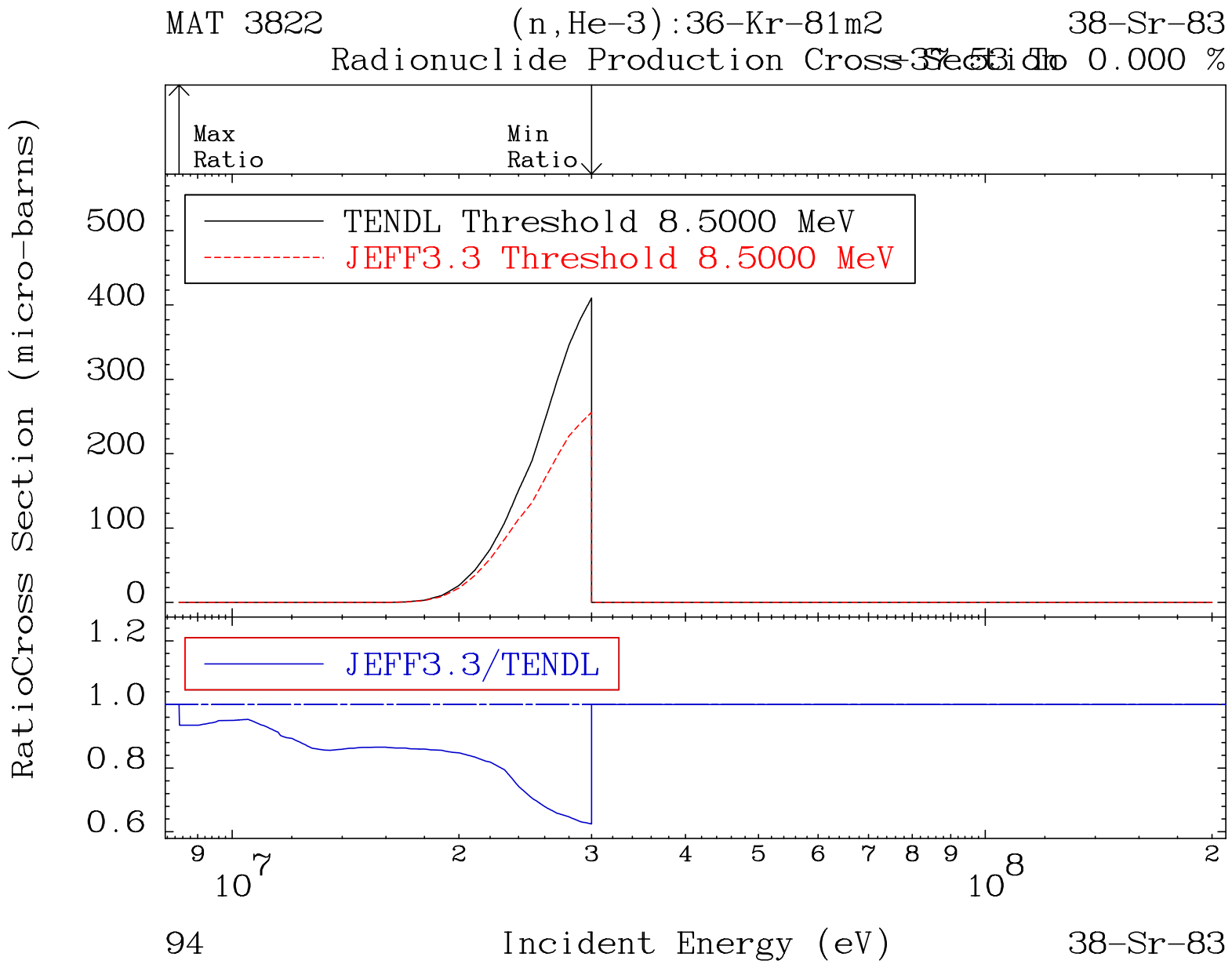

MAT 3822
(n,p) d:36-Kr-81g
38-Sr-83
Radionuclide Production Cross Section To 325.4 %
Max
Ratio
TENDL Threshold 11.594 MeV
JENDL5.0 Threshold 11.594 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
6
4
2
0
2
3
4
5
6
7
8
9
2
10^8
89
Incident Energy (eV)
38-Sr-83

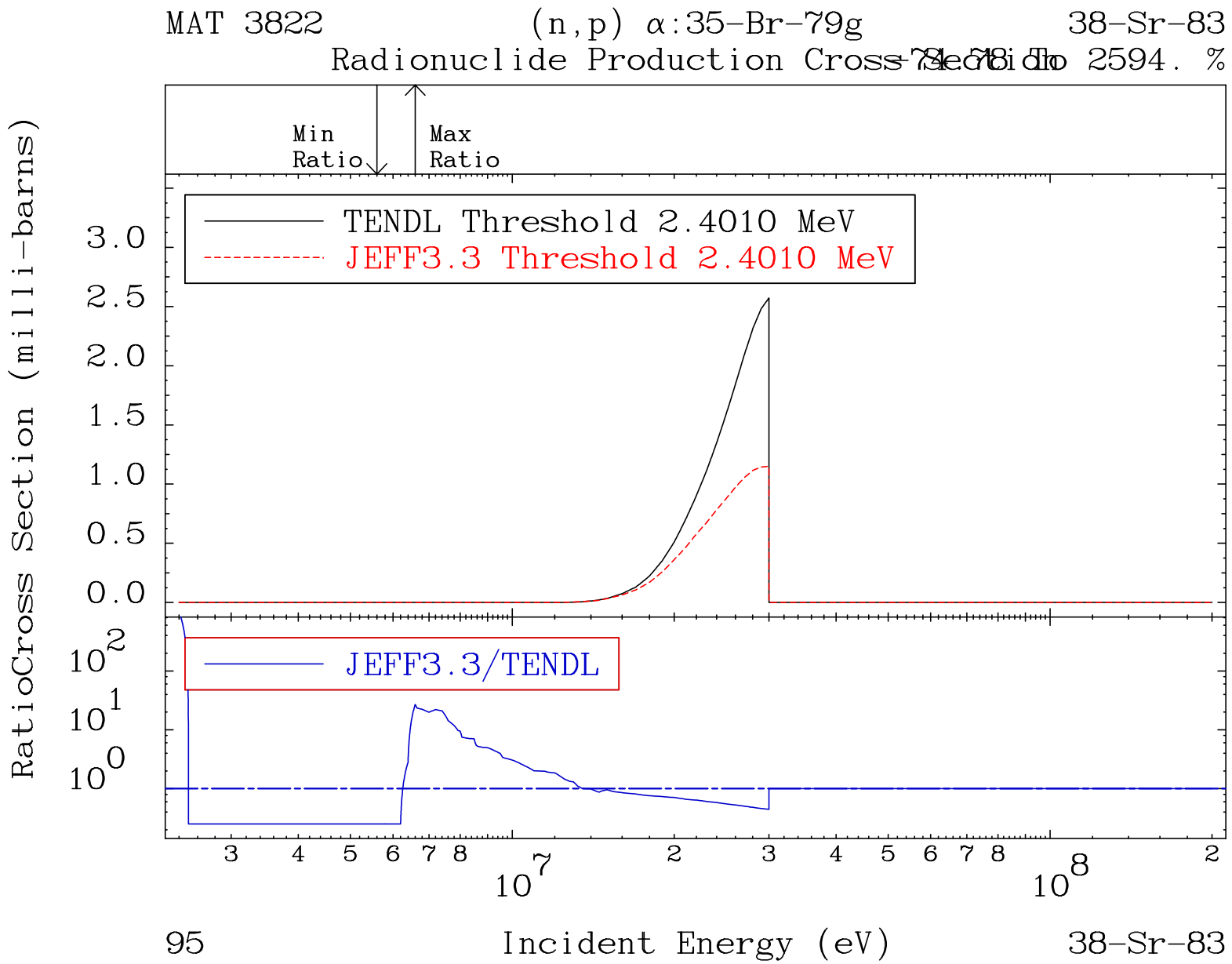

MAT 3822
(n,p) d:36-Kr-81m2
38-Sr-83
Radionuclide Production Cross Section To 478.0 %
Max
Ratio
160
120
80
40
0
TENDL Threshold 11.787 MeV
JENDL5.0 Threshold 11.787 MeV
8
4
0
JENDL5.0/TENDL
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (micro-barns)
90
Incident Energy (eV)
38-Sr-83

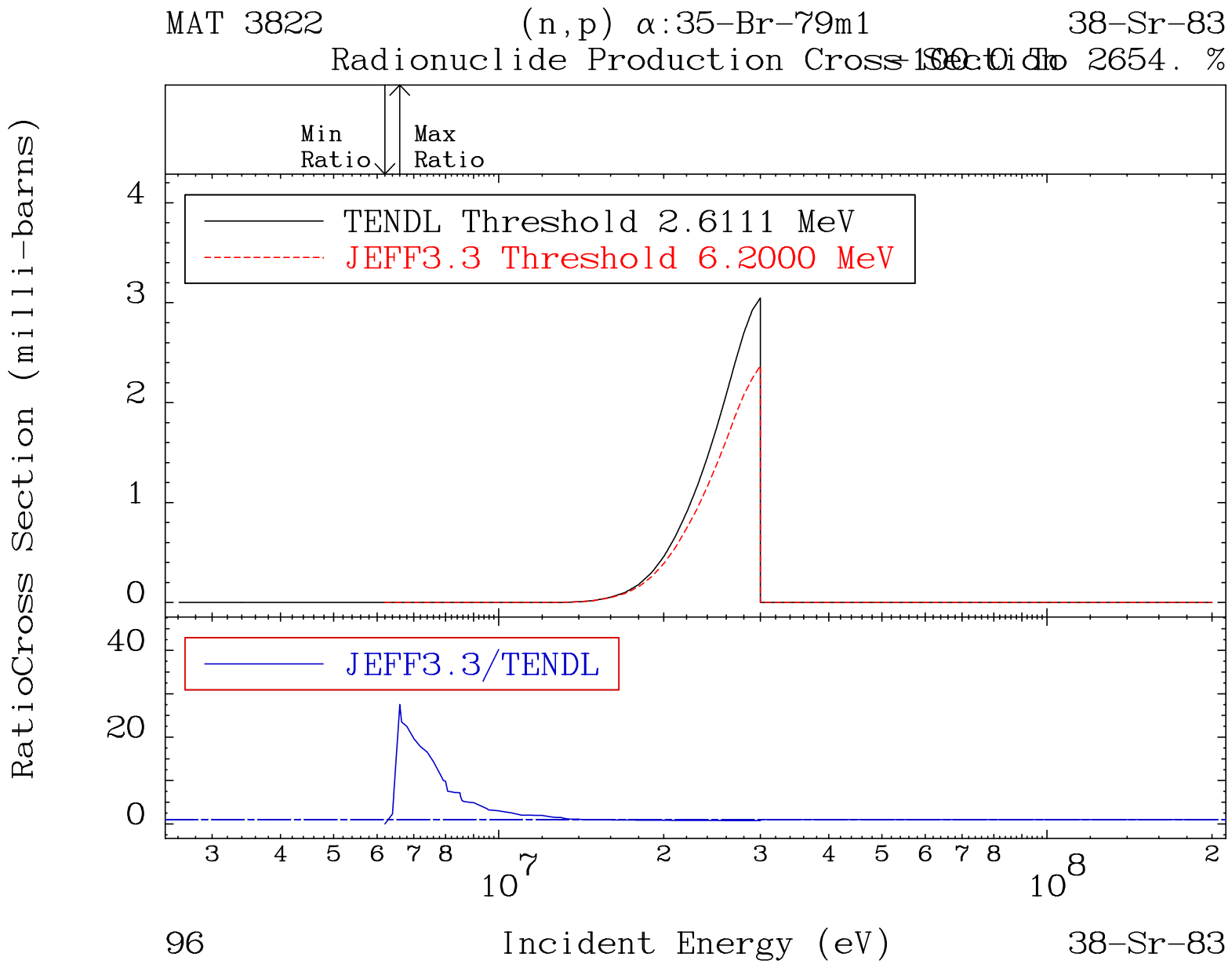

MAT 3822
(n,t):37-Rb-81g
38-Sr-83
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.3194 MeV
JEFF3.3 Threshold 8.3194 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
91
38-Sr-83

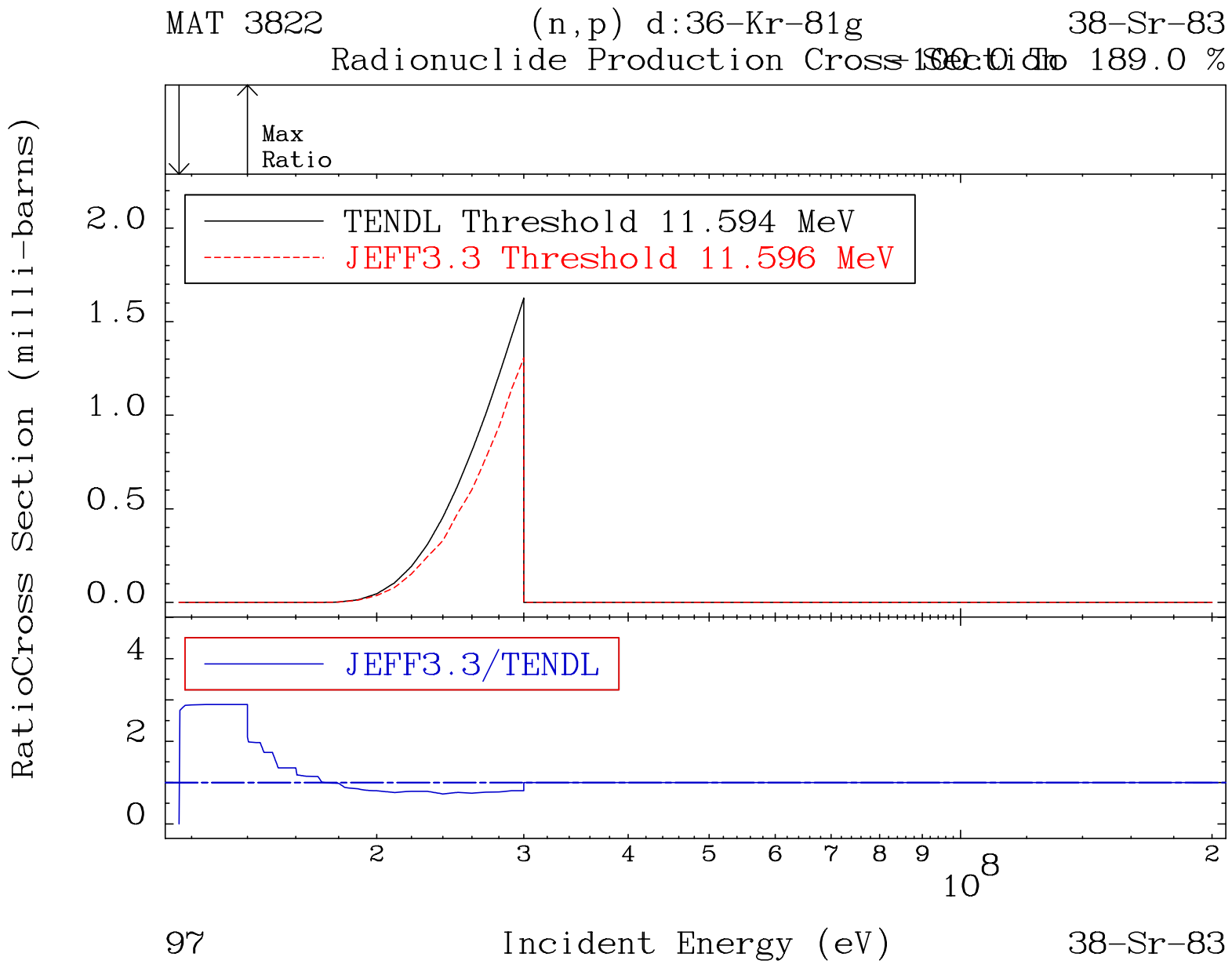

MAT 3822
(n,t):37-Rb-81m1
38-Sr-83
Radionuclide Production Cross Section To 10.42 %
Min Ratio
Max Ratio
TENDL Threshold 8.4067 MeV
JEFF3.3 Threshold 8.4067 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
92
38-Sr-83

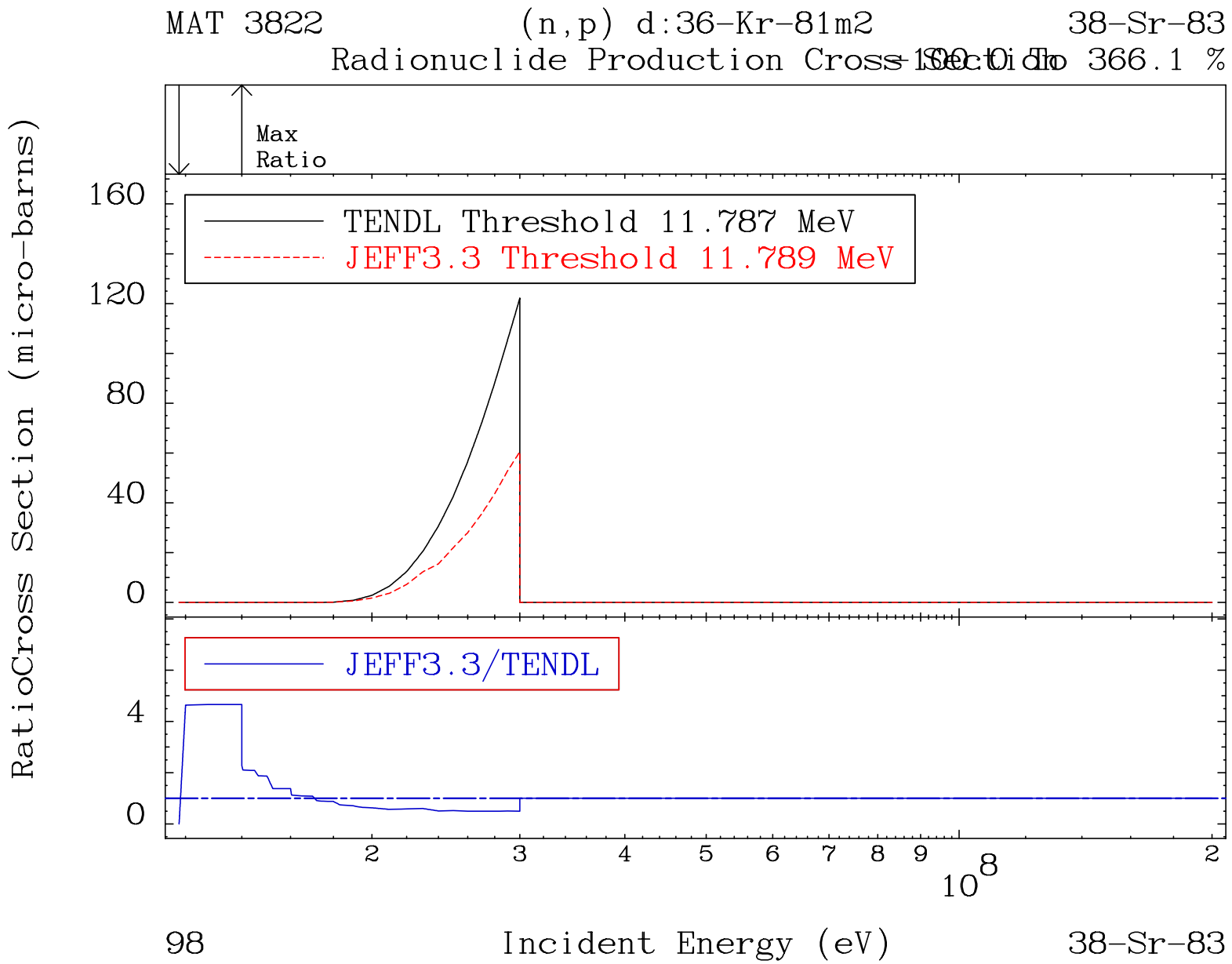

MAT 3822
(n,He-3):36-Kr-81g
38-Sr-83
Radionuclide Production Cross Section To 2.773 %
Min Ratio
Max Ratio
TENDL Threshold 6.0338 MeV
JEFF3.3 Threshold 6.0352 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
93
38-Sr-83


MAT 3822
(n,He-3):36-Kr-81m2
38-Sr-83
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JEFF3.3 Threshold 8.5000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
94
38-Sr-83


MAT 3822
(n,p) α:35-Br-79g
38-Sr-83
Radionuclide Production Cross Section To 2594. %
Min Ratio
Max Ratio
TENDL Threshold 2.4010 MeV
JEFF3.3 Threshold 2.4010 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^2
10^1
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
95
Incident Energy (eV)
38-Sr-83


MAT 3822
(n,p) α:35-Br-79m1
38-Sr-83
Radionuclide Production Cross Section To 2654. %
Min Ratio
Max Ratio
TENDL Threshold 2.6111 MeV
JEFF3.3 Threshold 6.2000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
96
38-Sr-83


MAT 3822
(n,p) d:36-Kr-81g
38-Sr-83
Radionuclide Production Cross Section To 189.0 %
Max
Ratio
TENDL Threshold 11.594 MeV
JEFF3.3 Threshold 11.596 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
4
2
0
2
3
4
5
6
7
8
9
2
10^8
97
Incident Energy (eV)
38-Sr-83


MAT 3822
(n,p) d:36-Kr-81m2
38-Sr-83
Radionuclide Production Cross Section To 366.1 %
Max
Ratio
160
120
80
40
0
TENDL Threshold 11.787 MeV
JEFF3.3 Threshold 11.789 MeV
JEFF3.3/TENDL
4
0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (micro-barns)
98
Incident Energy (eV)
38-Sr-83