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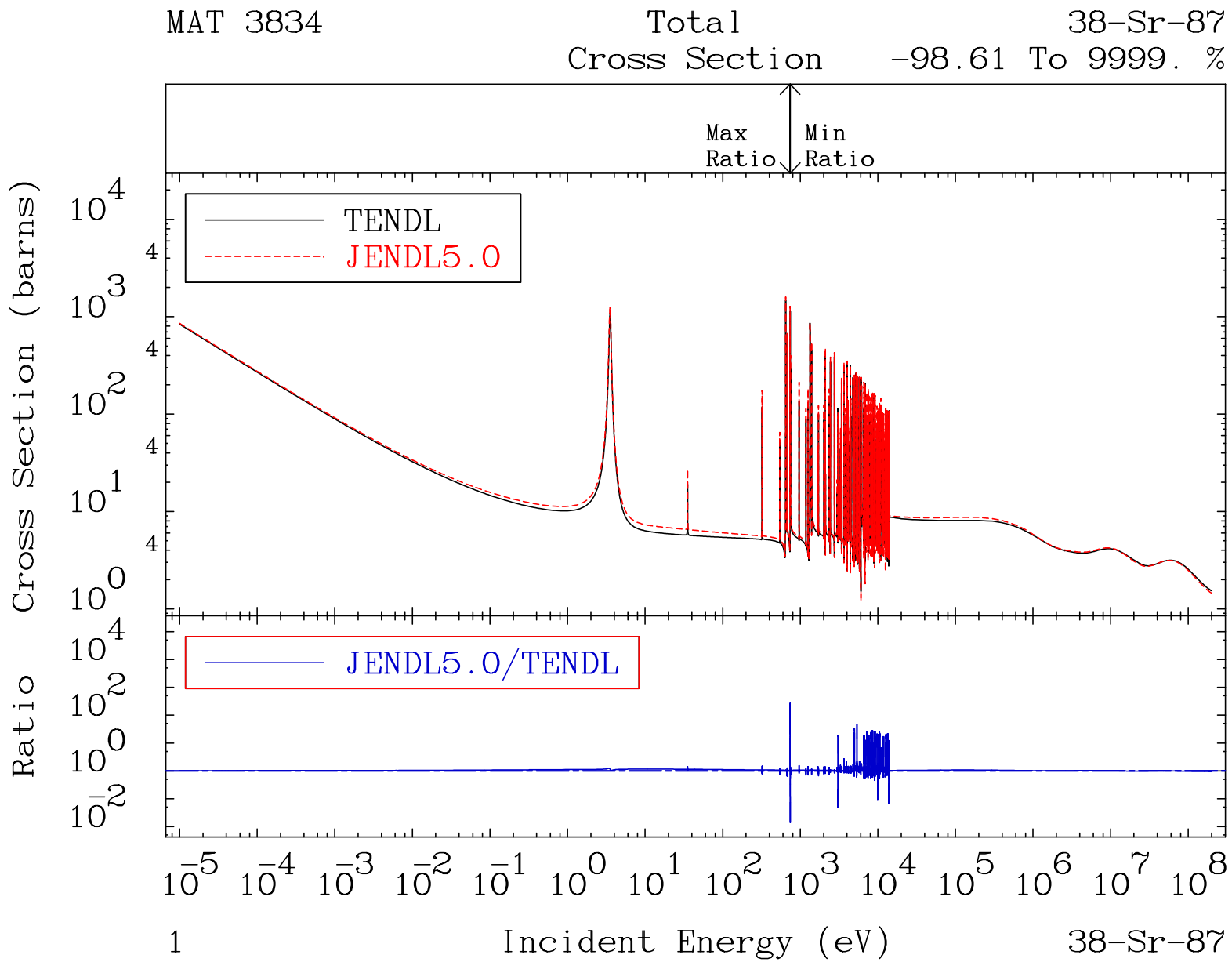
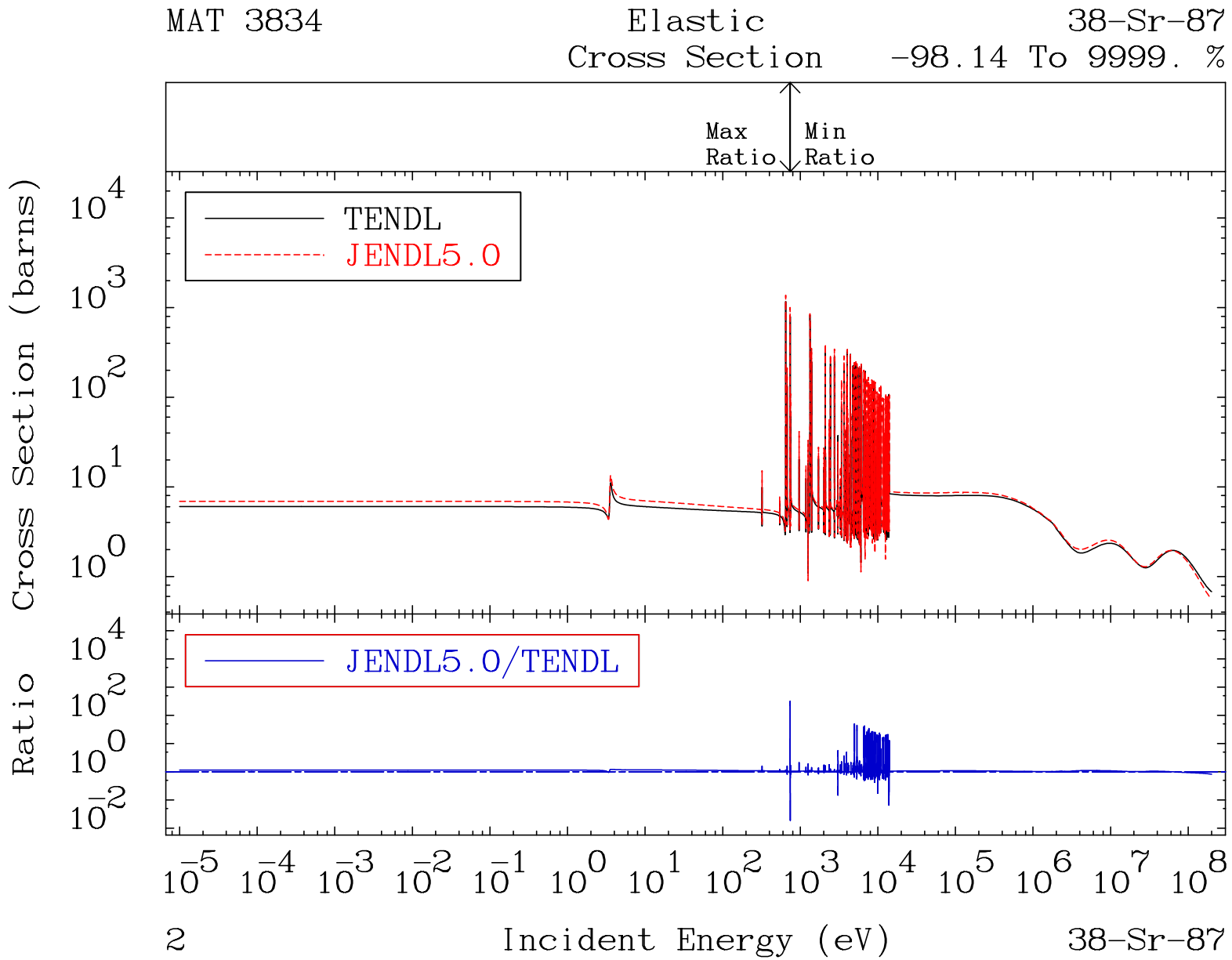
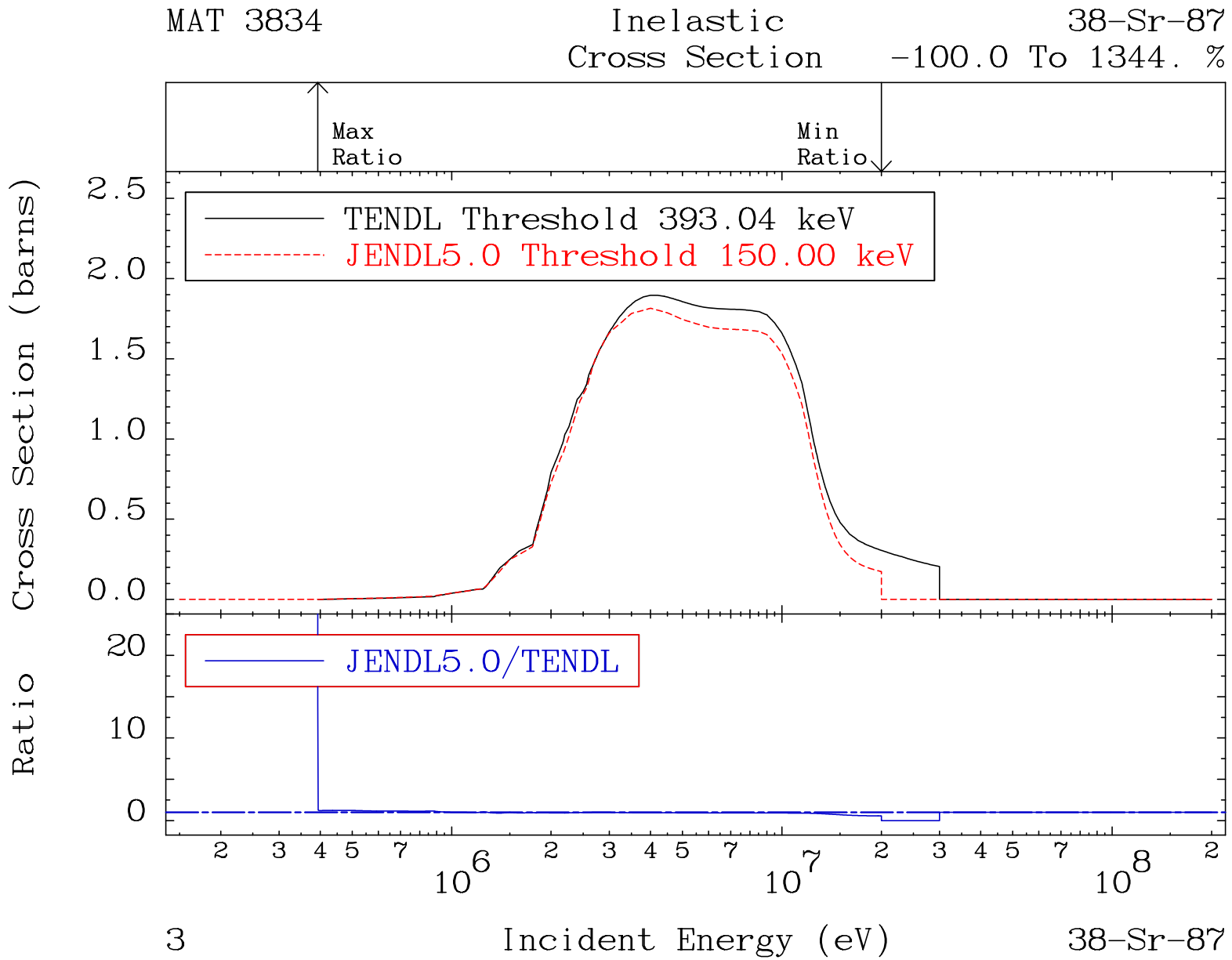
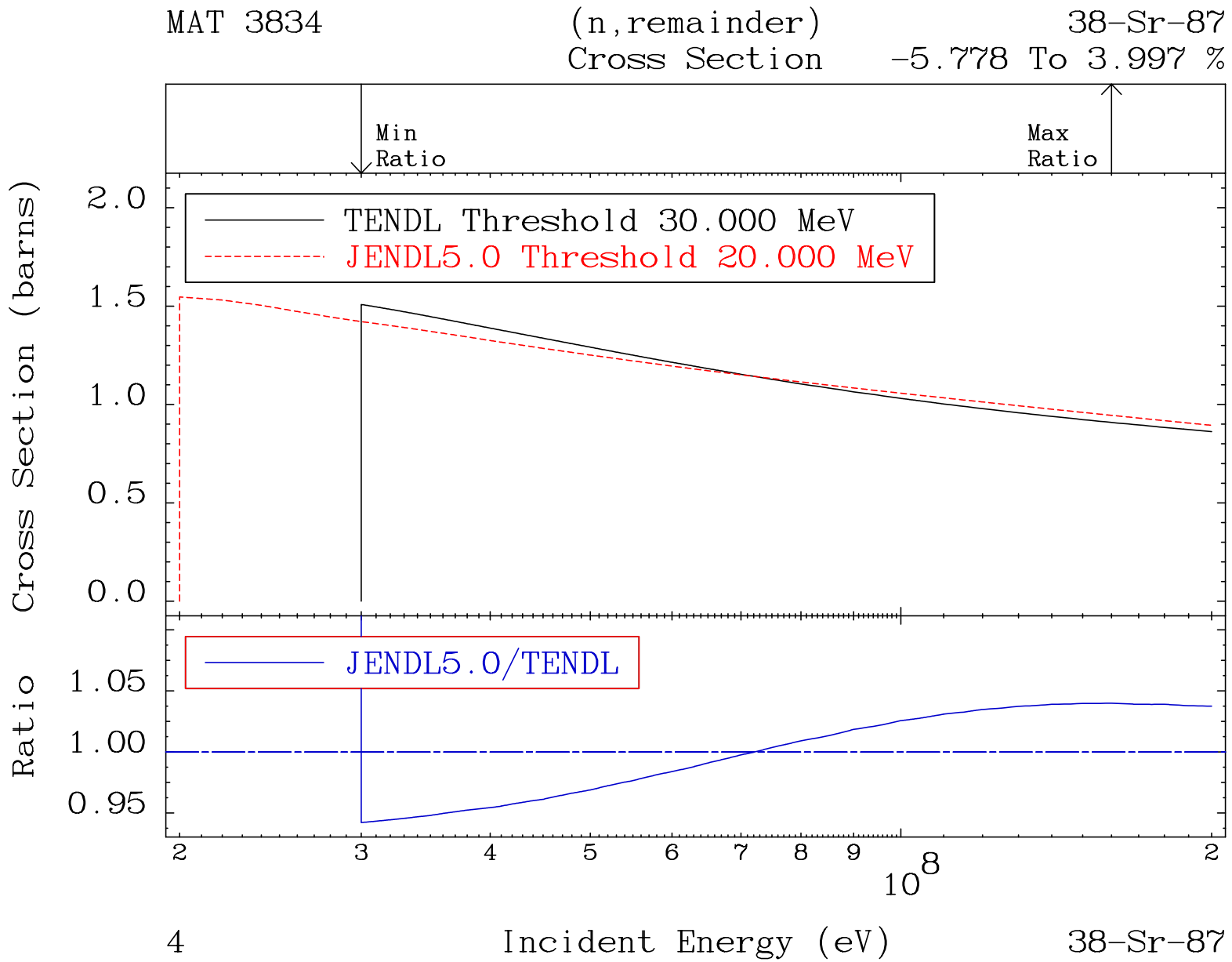
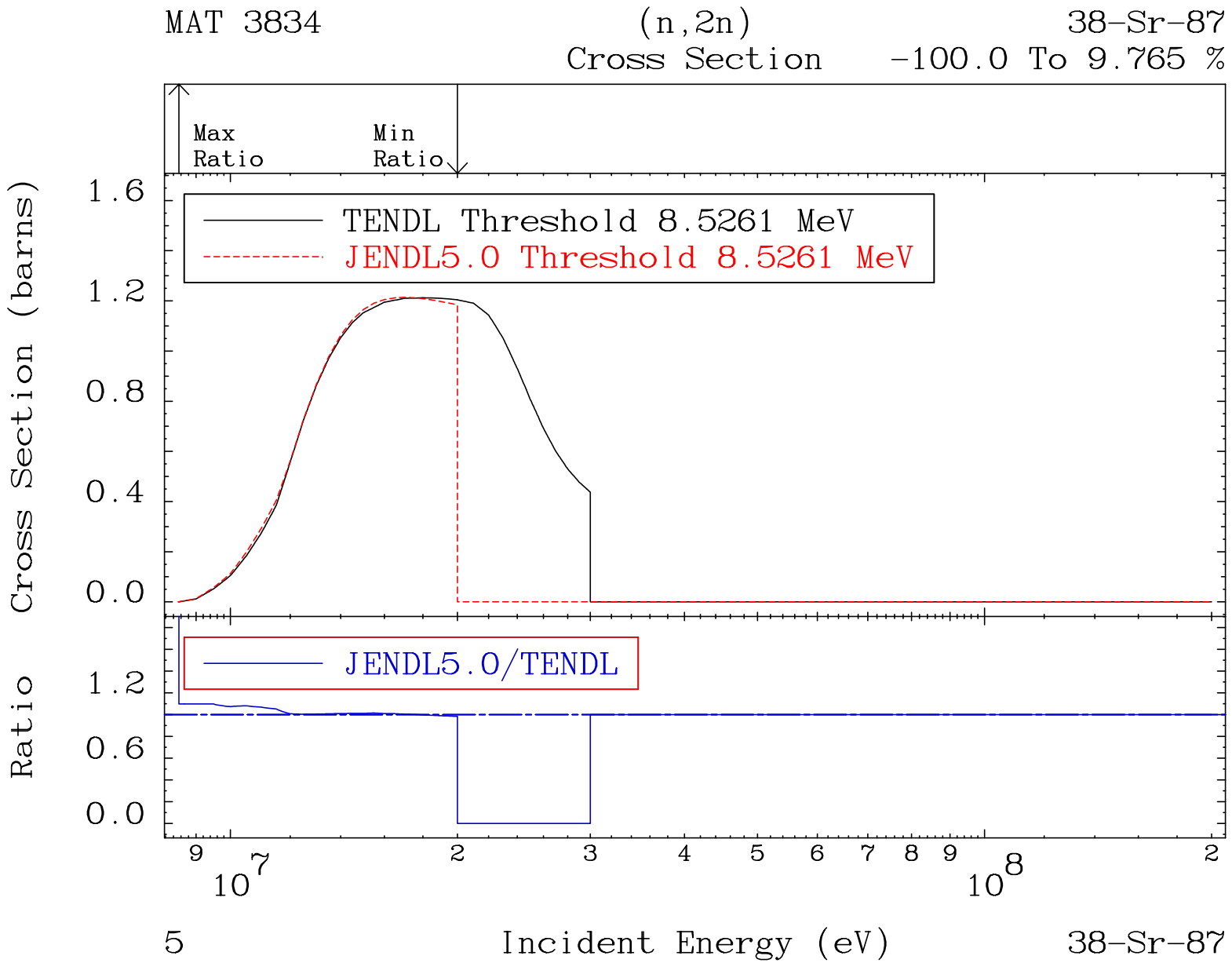
Press Mouse Button to Start

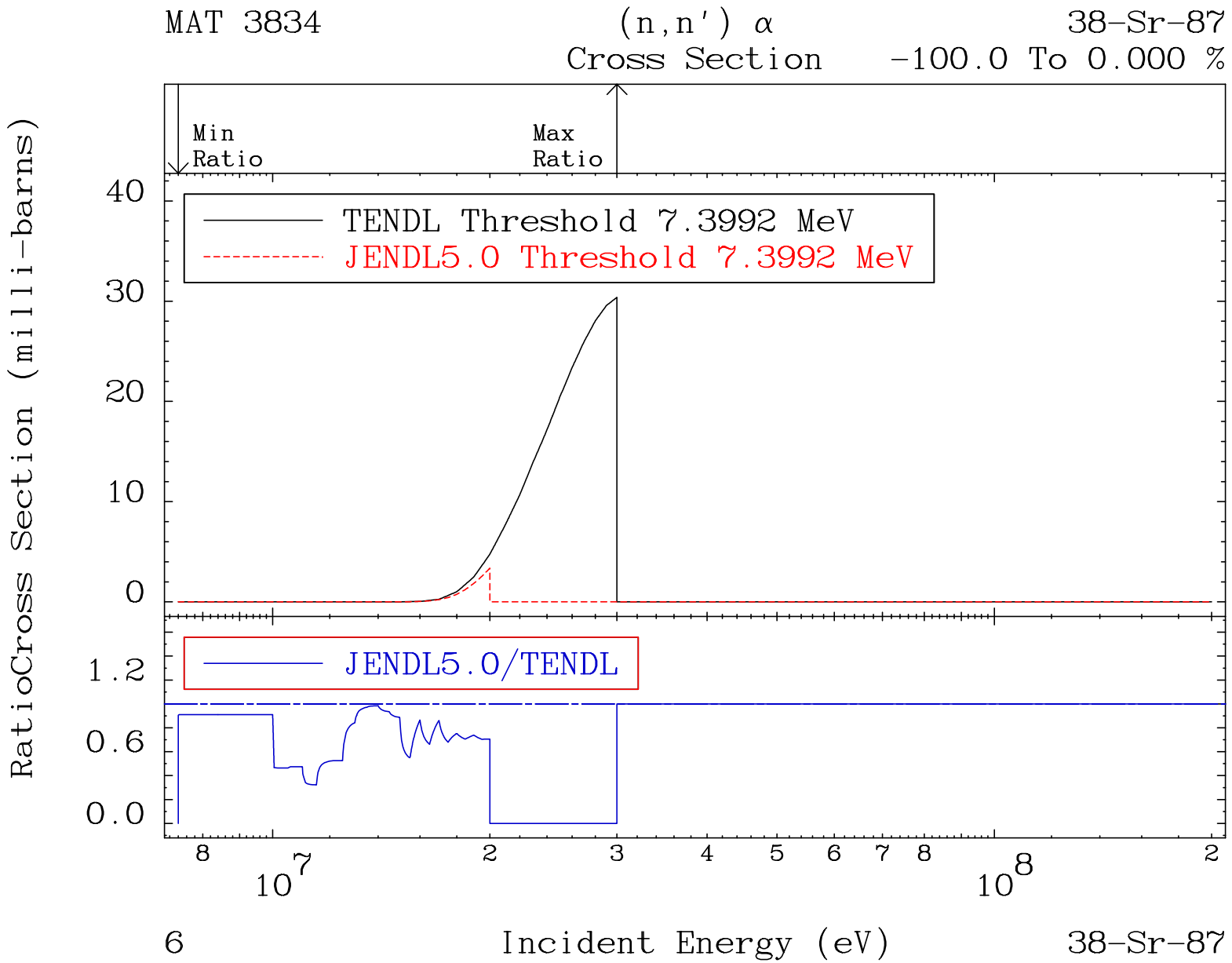

MAT 3834
Total
Cross Section
38-Sr-87
-98.61 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
38-Sr-87

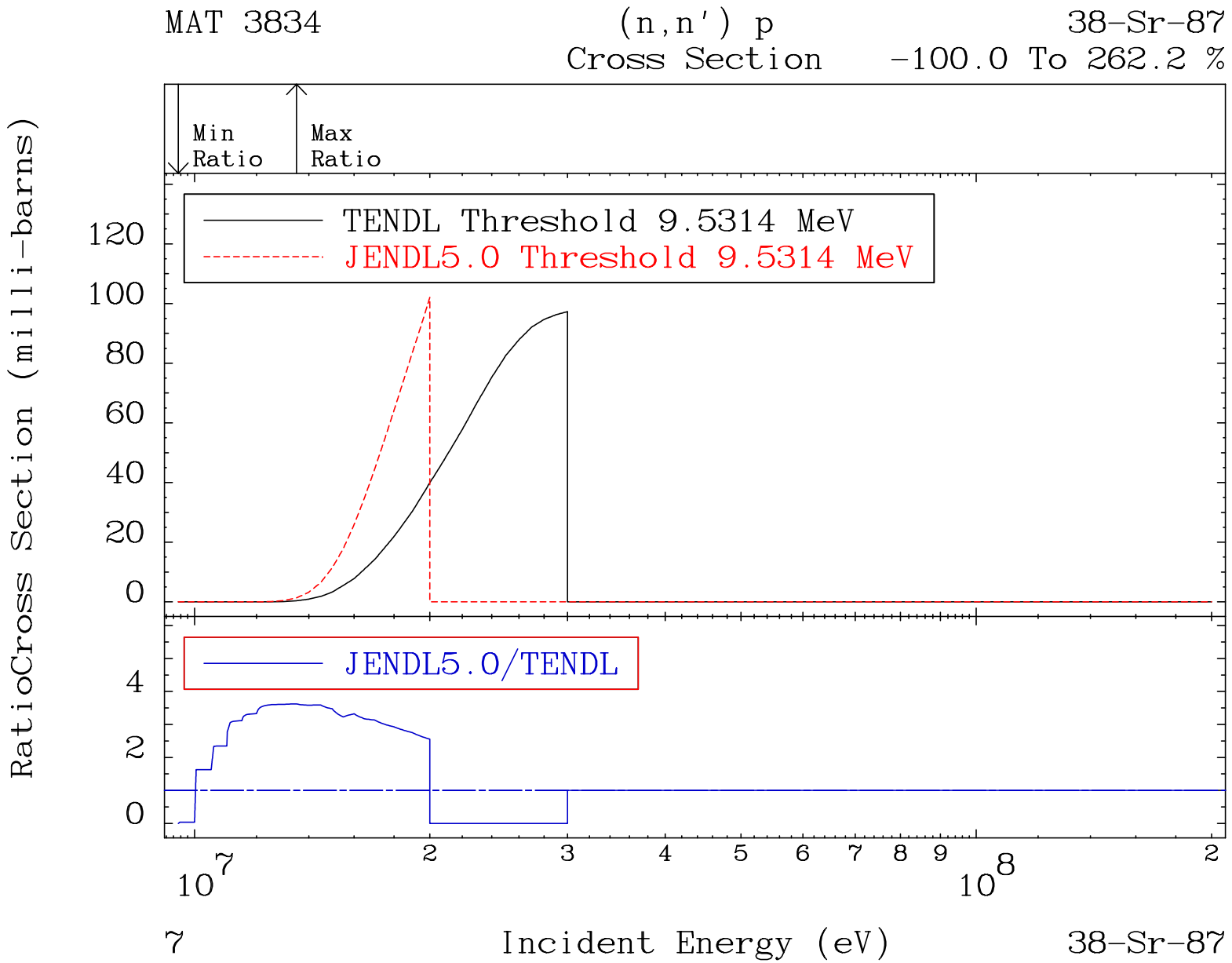

MAT 3834
Elastic
Cross Section
38-Sr-87
-98.14 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
38-Sr-87

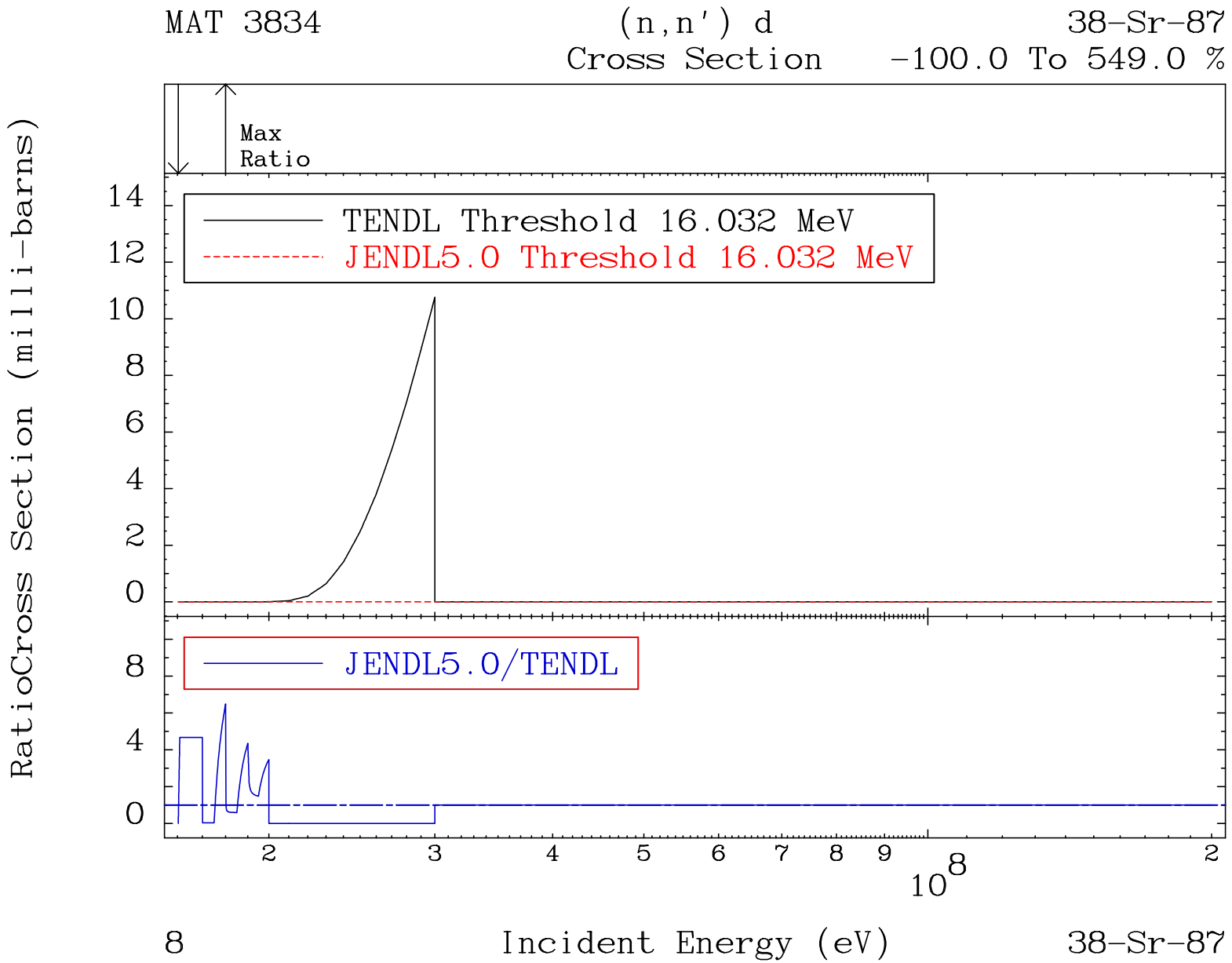

MAT 3834
Inelastic
Cross Section
38-Sr-87
-100.0 To 1344. %
Max
Ratio
Min
Ratio
TENDL Threshold 393.04 keV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
20
10
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
3
38-Sr-87

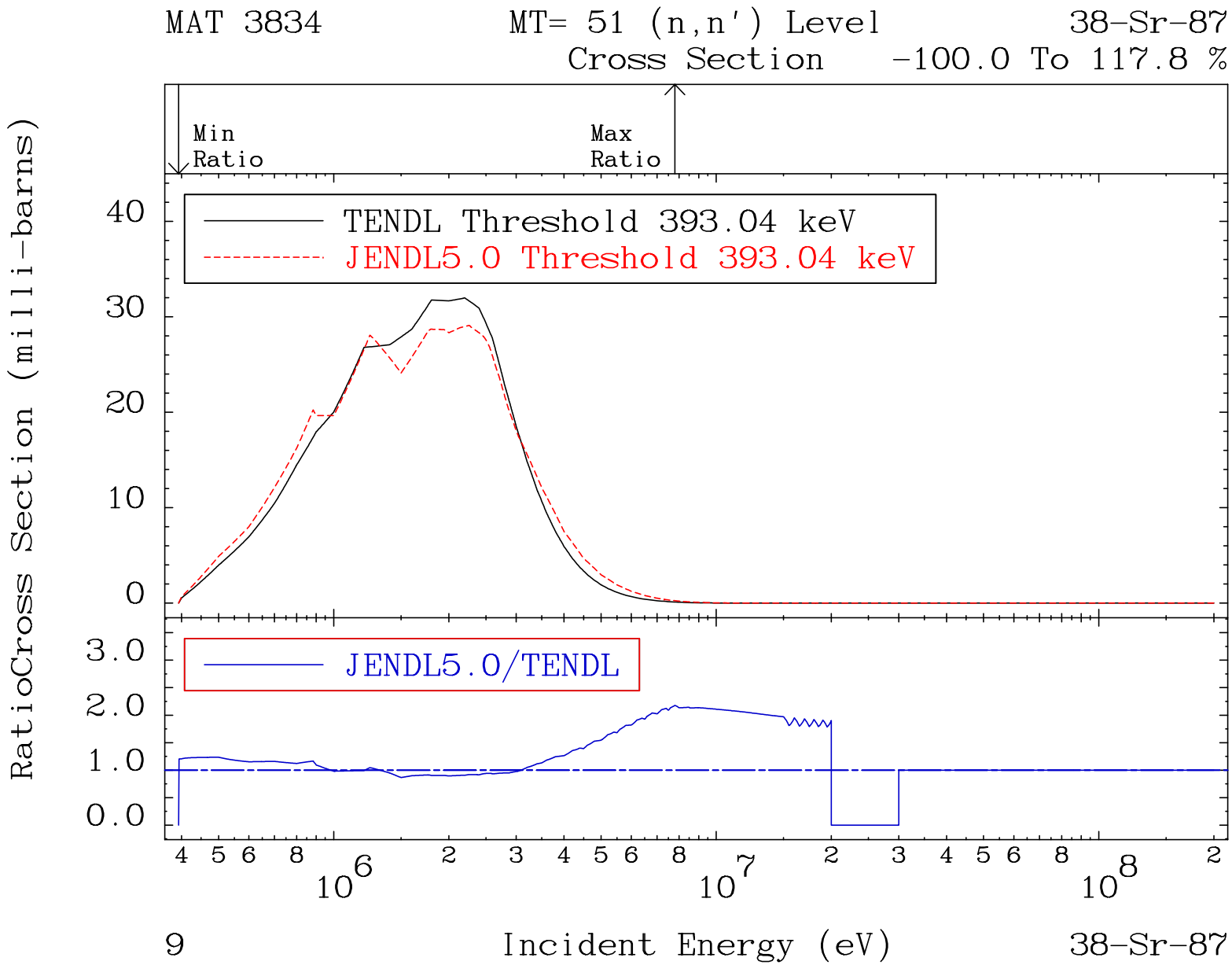

MAT 3834
(n,remainder)
Cross Section
38-Sr-87
-5.778 To 3.997 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.05
1.00
0.95
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
38-Sr-87

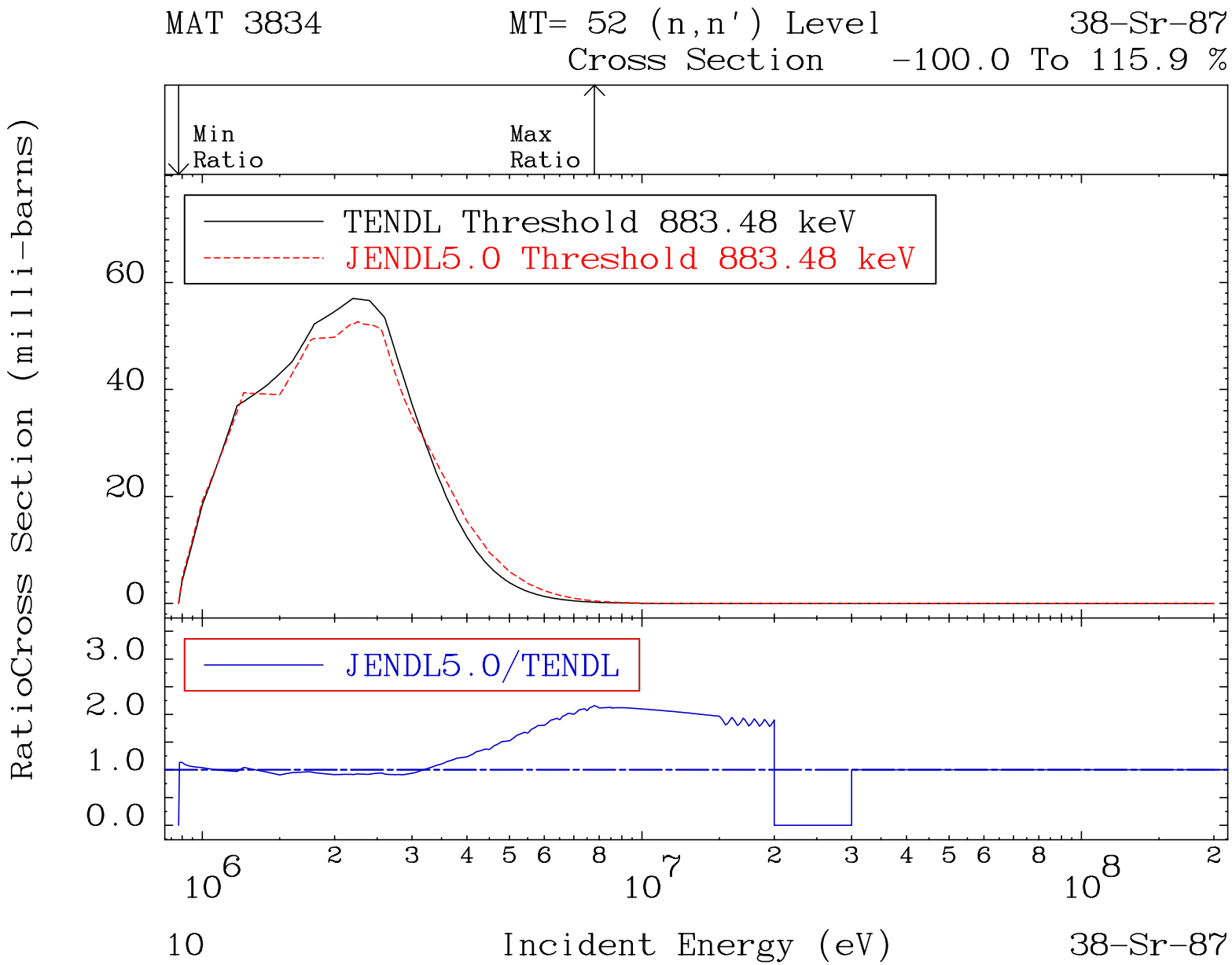

MAT 3834
(n,2n)
Cross Section
38-Sr-87
-100.0 To 9.765 %
Max Ratio
Min Ratio
TENDL Threshold 8.5261 MeV
JENDL5.0 Threshold 8.5261 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
38-Sr-87

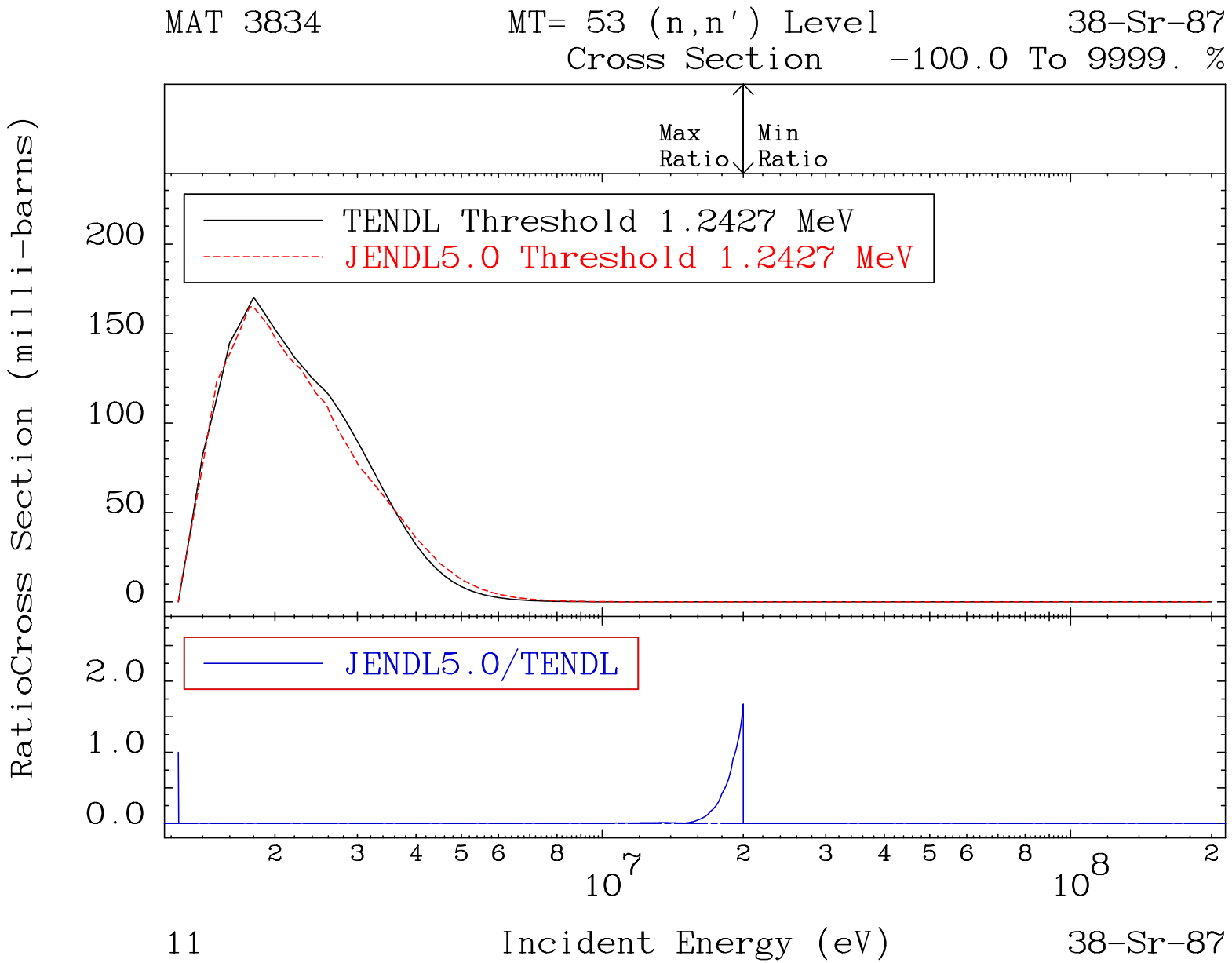

MAT 3834
(n,n') α
Cross Section
38-Sr-87
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.3992 MeV
JENDL5.0 Threshold 7.3992 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
6
Incident Energy (eV)
38-Sr-87

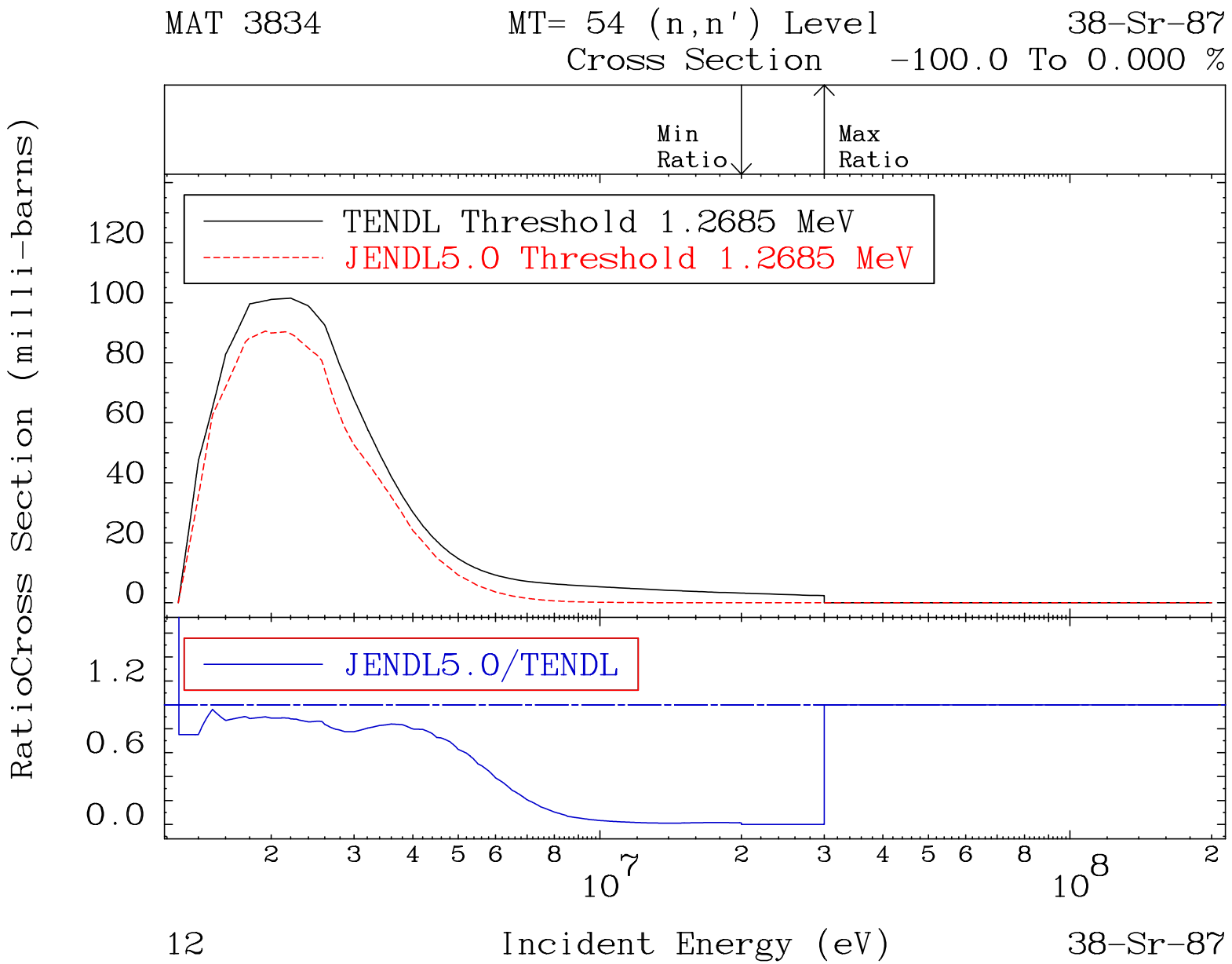

MAT 3834
(n,n') p
Cross Section
38-Sr-87
-100.0 To 262.2 %
Min Ratio
Max Ratio
TENDL Threshold 9.5314 MeV
JENDL5.0 Threshold 9.5314 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
38-Sr-87

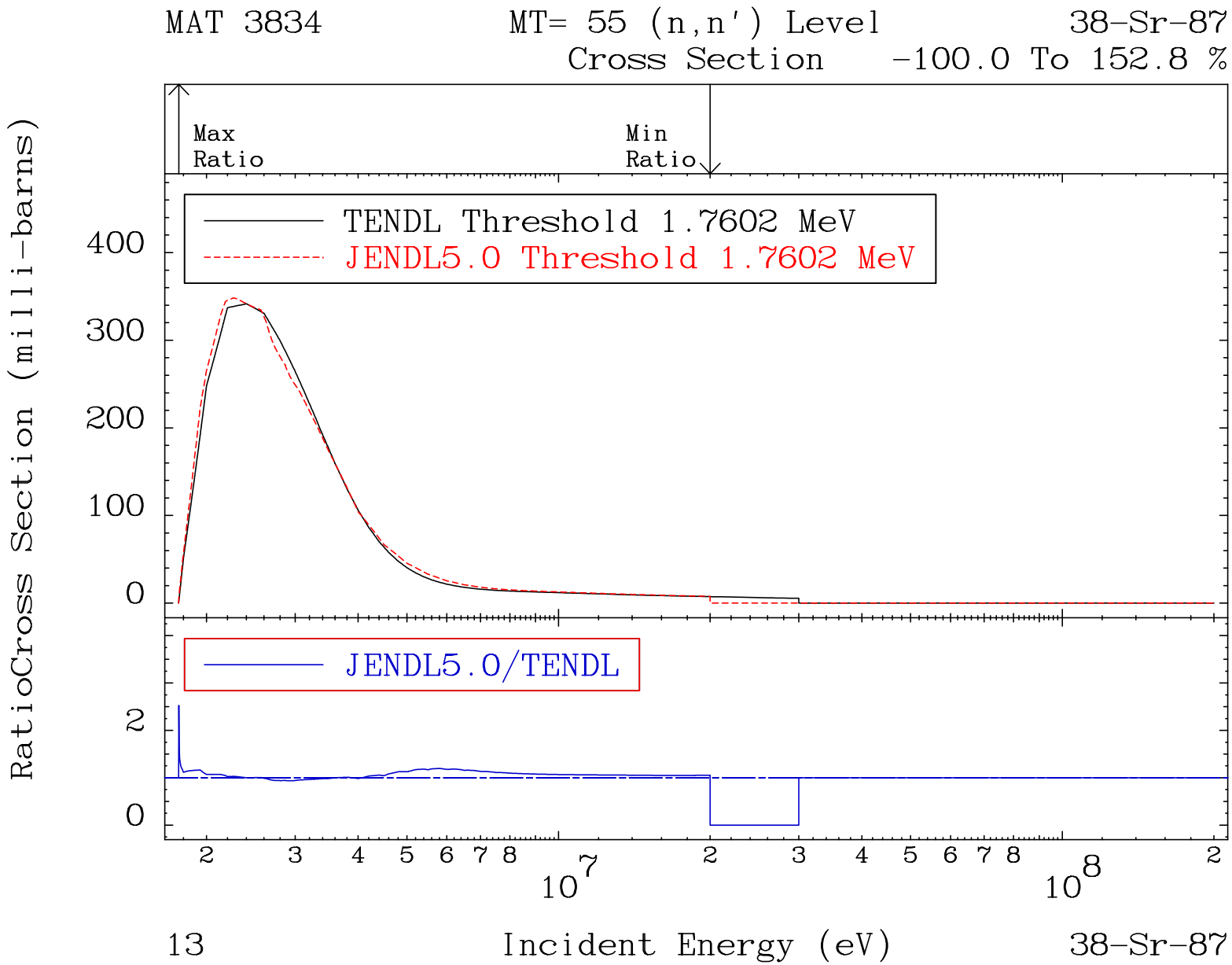

MAT 3834
(n,n') d
Cross Section
38-Sr-87
-100.0 To 549.0 %
Max
Ratio
TENDL Threshold 16.032 MeV
JENDL5.0 Threshold 16.032 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
8
4
0
2
3
4
5
6
7
8
9
2
10^8
8
Incident Energy (eV)
38-Sr-87

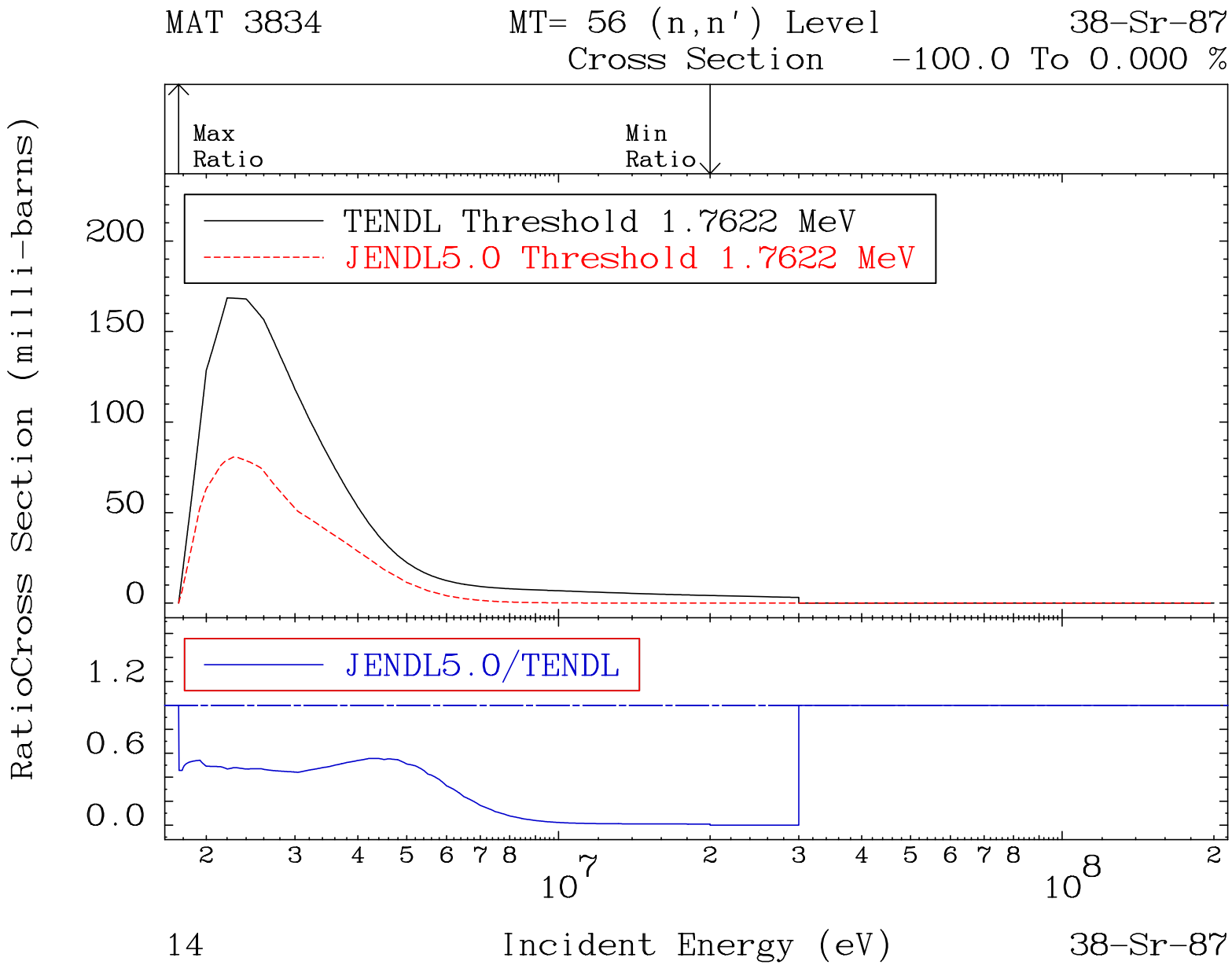

MAT 3834
MT= 51 (n,n') Level
38-Sr-87
Cross Section -100.0 To 117.8 %
Min Ratio
Max Ratio
TENDL Threshold 393.04 keV
JENDL5.0 Threshold 393.04 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
38-Sr-87

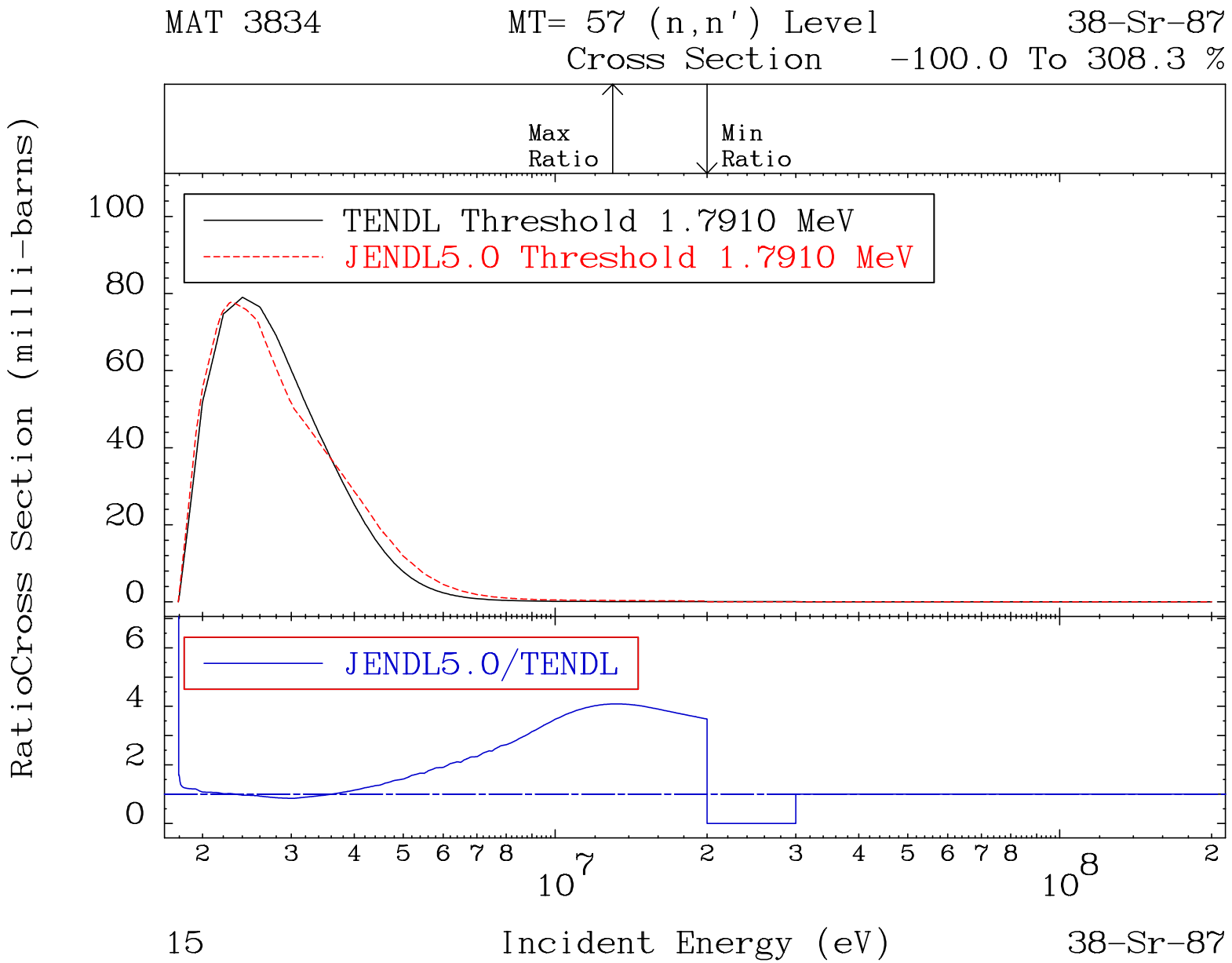

MAT 3834
MT= 52 (n,n') Level
38-Sr-87
Cross Section
-100.0 To 115.9 %
Min Ratio
Max Ratio
TENDL Threshold 883.48 keV
JENDL5.0 Threshold 883.48 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
3.0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
10
38-Sr-87

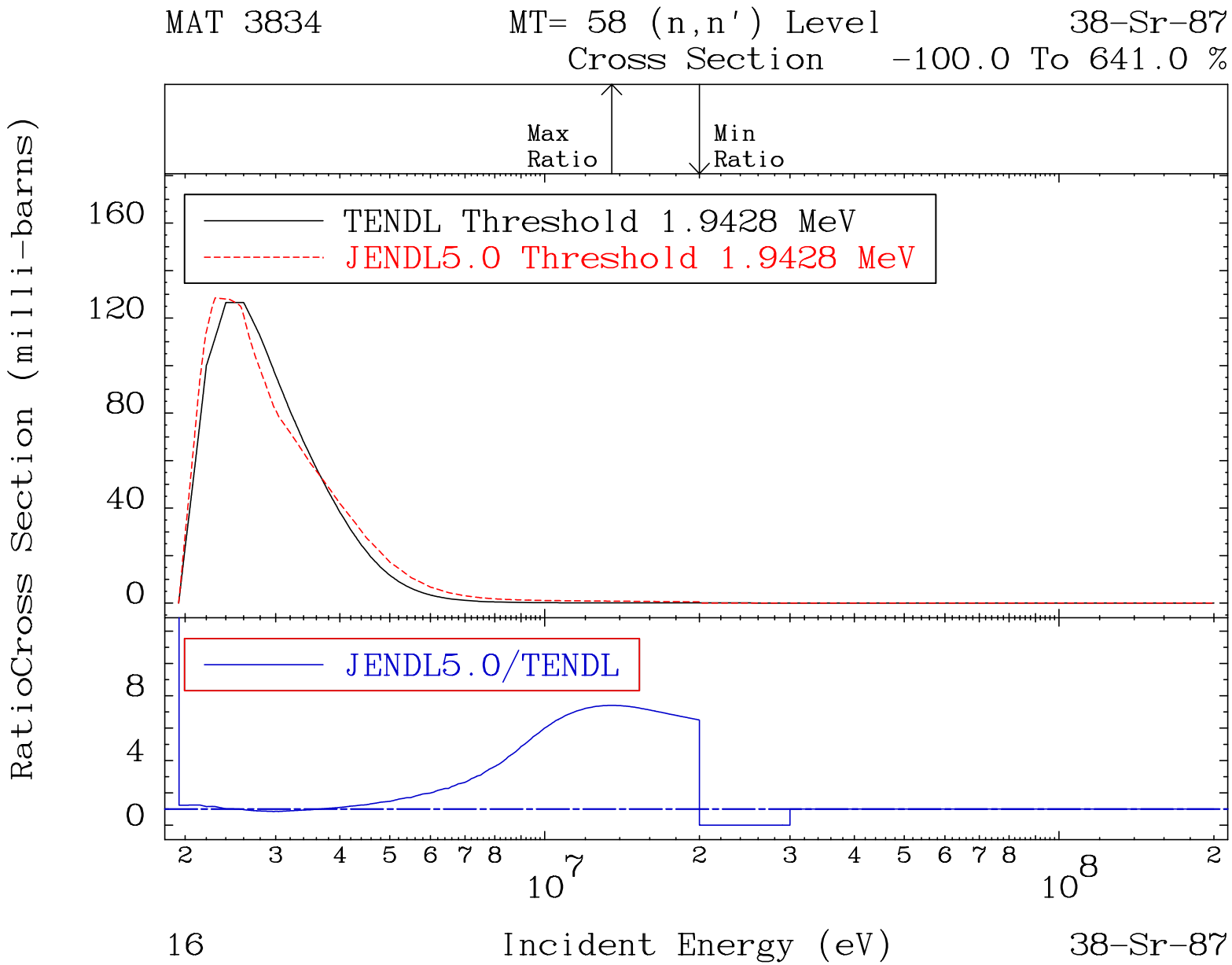

MAT 3834
MT= 53 (n,n') Level
38-Sr-87
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2427 MeV
JENDL5.0 Threshold 1.2427 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
38-Sr-87

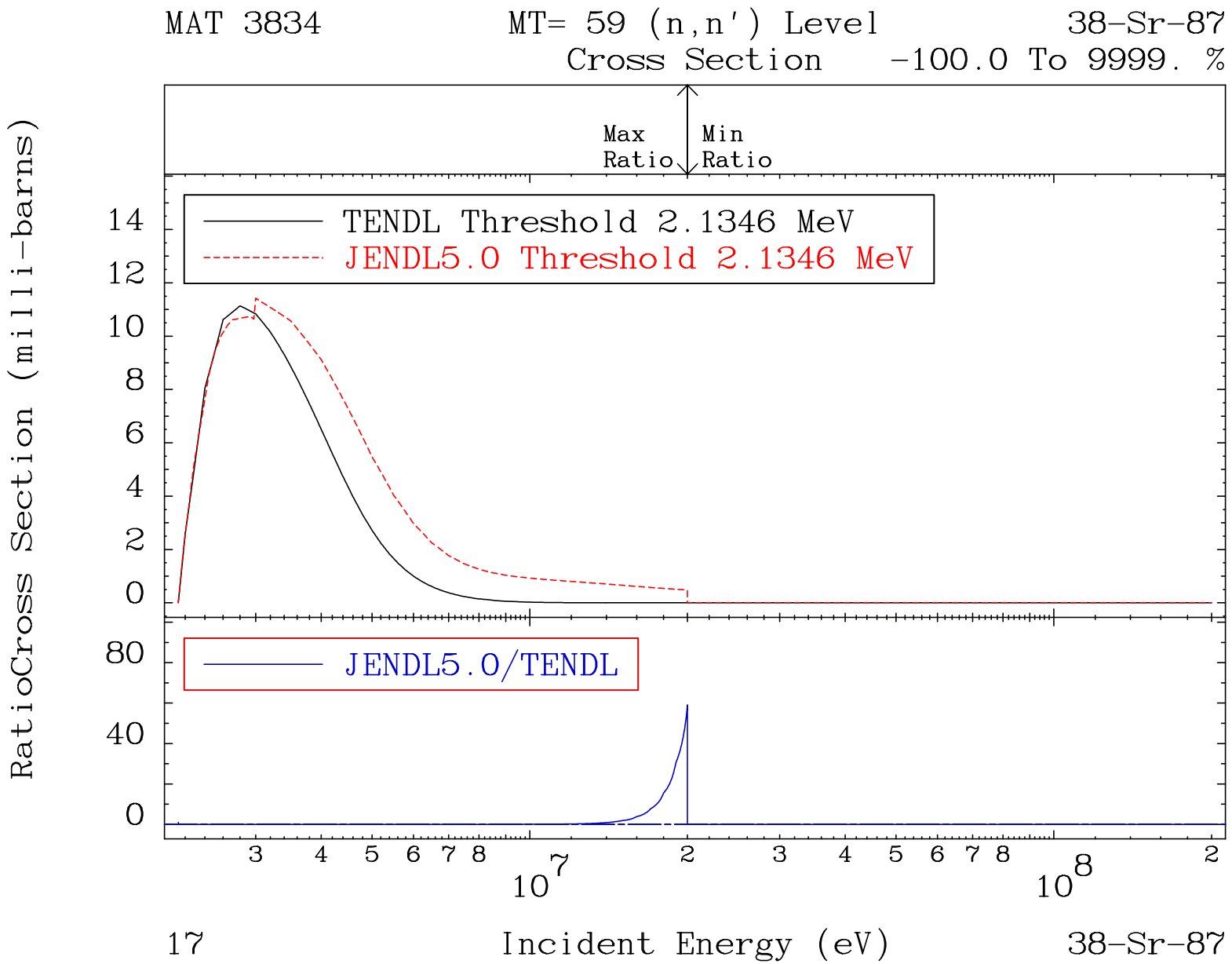

MAT 3834
MT= 54 (n,n') Level
38-Sr-87
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.2685 MeV
JENDL5.0 Threshold 1.2685 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
38-Sr-87

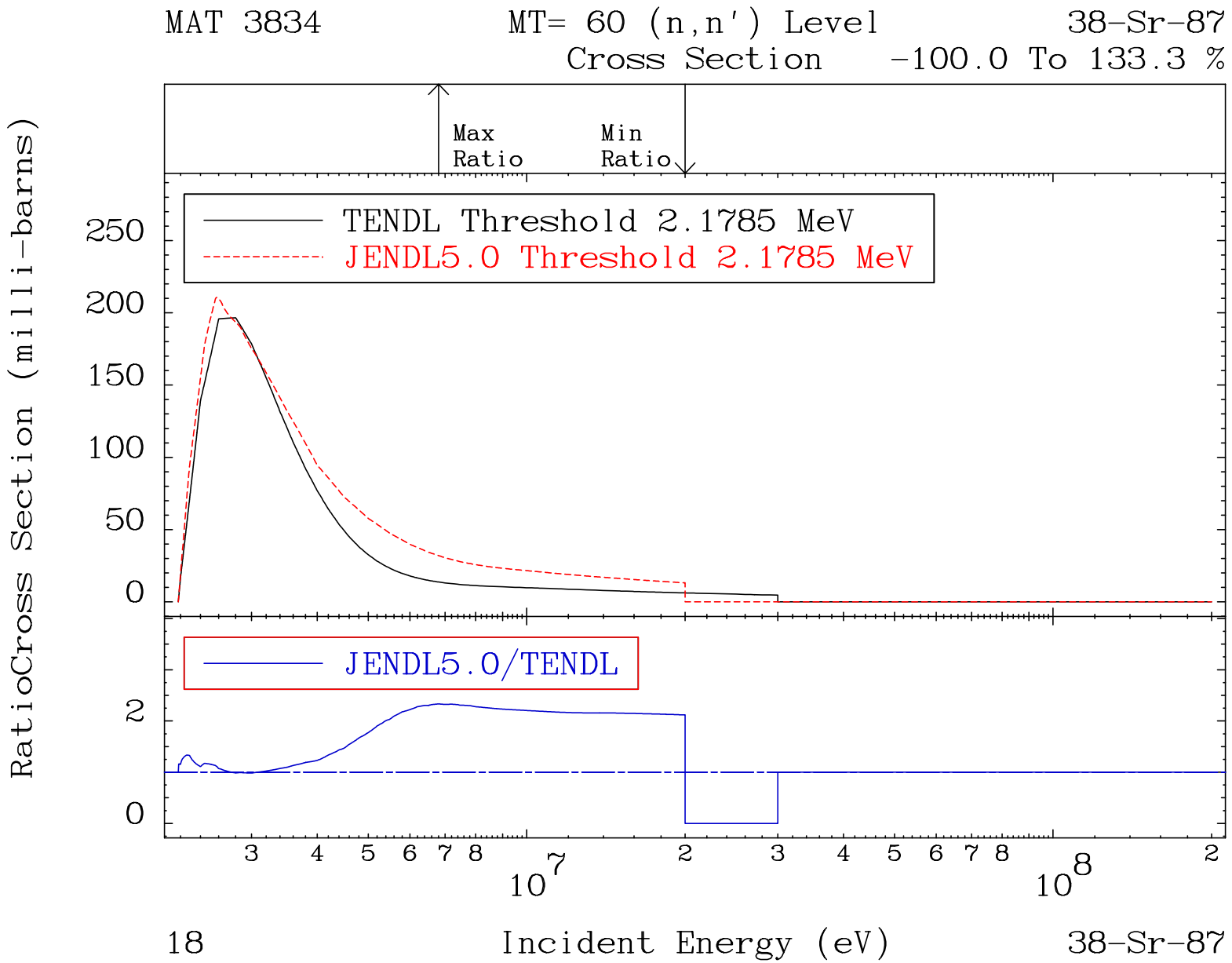

MAT 3834
MT= 55 (n,n') Level
38-Sr-87
Cross Section
-100.0 To 152.8 %
Max Ratio
Min Ratio
TENDL Threshold 1.7602 MeV
JENDL5.0 Threshold 1.7602 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
38-Sr-87

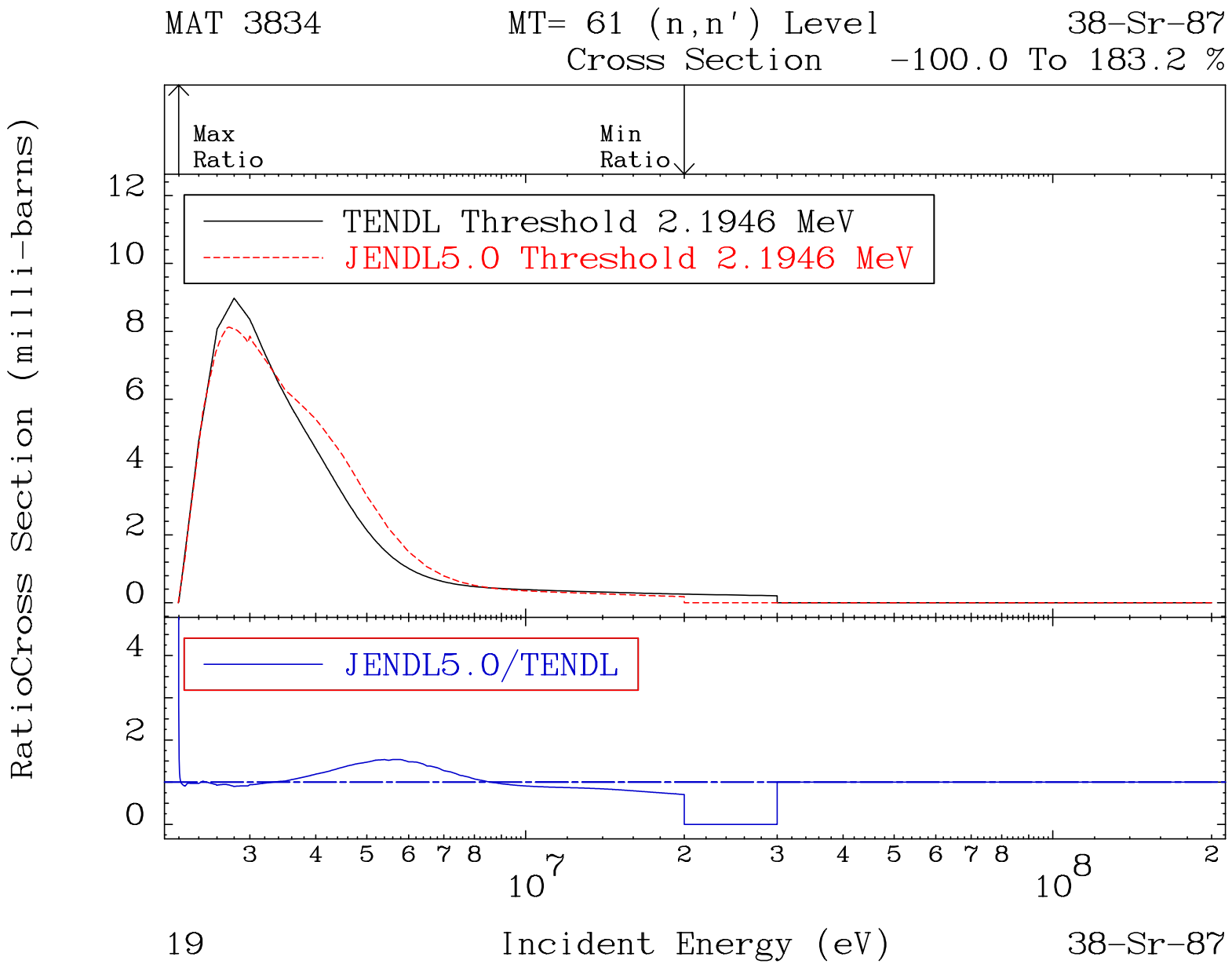

MAT 3834
MT= 56 (n,n') Level
38-Sr-87
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.7622 MeV
JENDL5.0 Threshold 1.7622 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
38-Sr-87

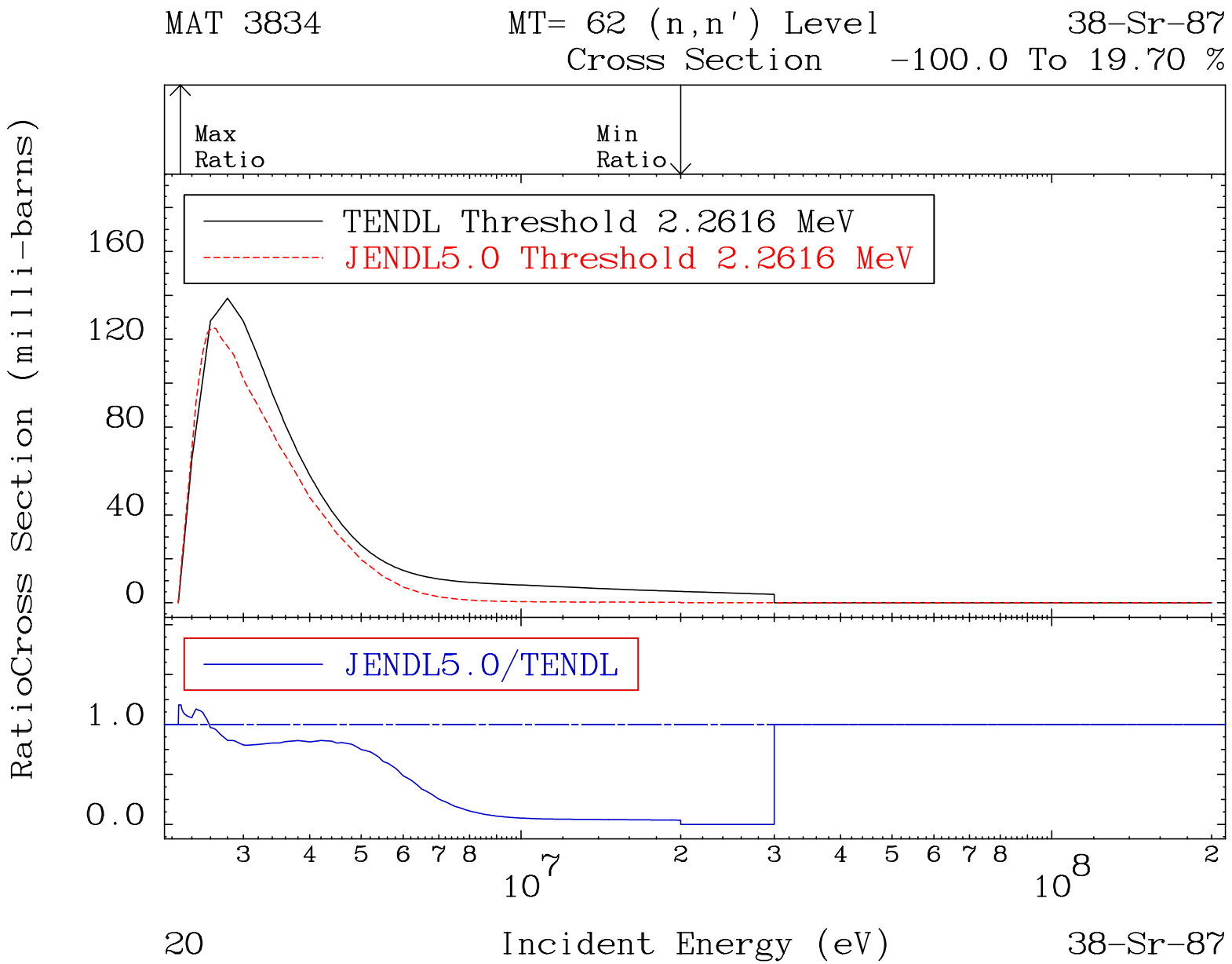

MAT 3834
MT= 57 (n,n') Level
38-Sr-87
Cross Section -100.0 To 308.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.7910 MeV
JENDL5.0 Threshold 1.7910 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
15
38-Sr-87

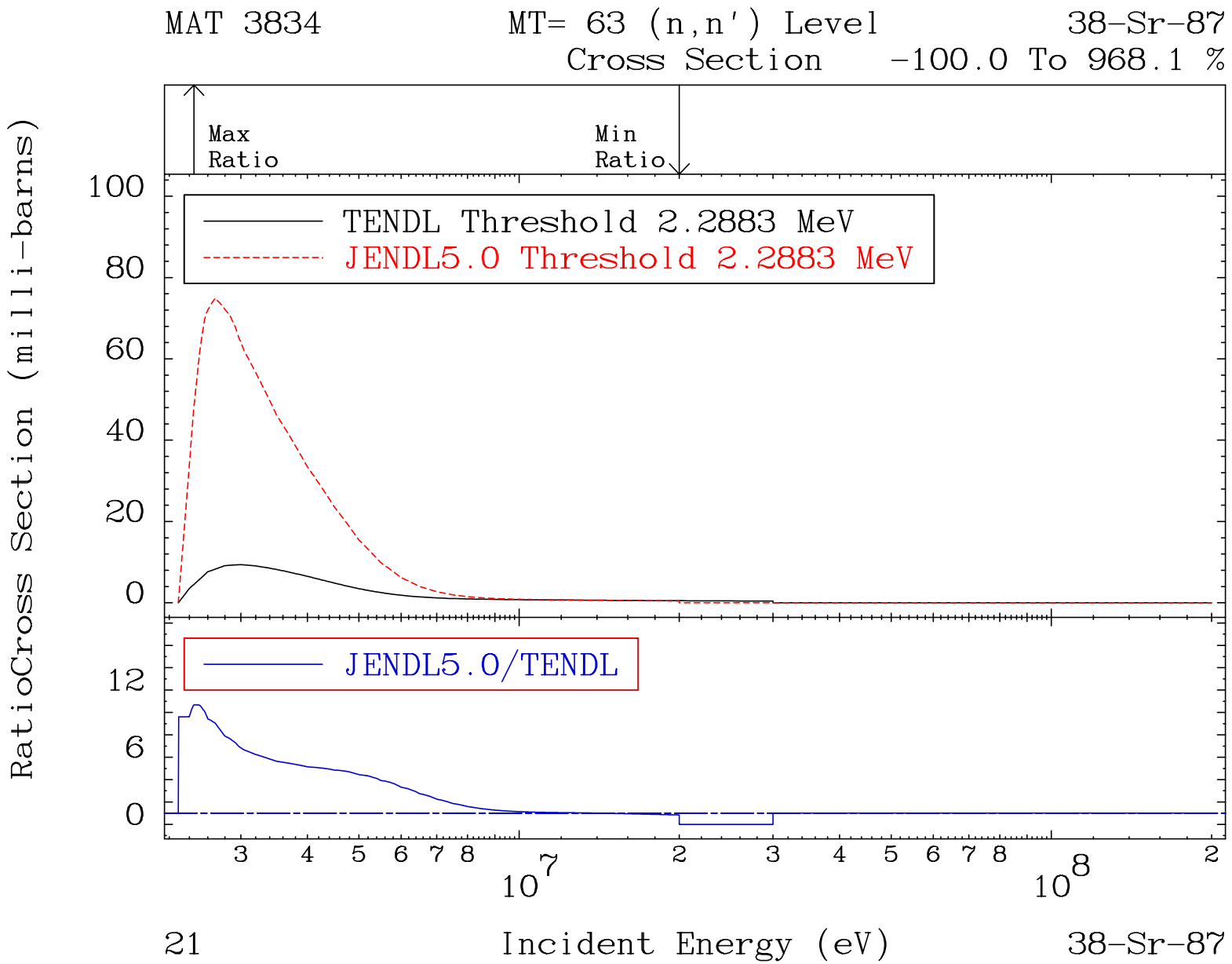

MAT 3834
MT= 58 (n,n') Level
38-Sr-87
Cross Section -100.0 To 641.0 %
Max Ratio
Min Ratio
TENDL Threshold 1.9428 MeV
JENDL5.0 Threshold 1.9428 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
38-Sr-87

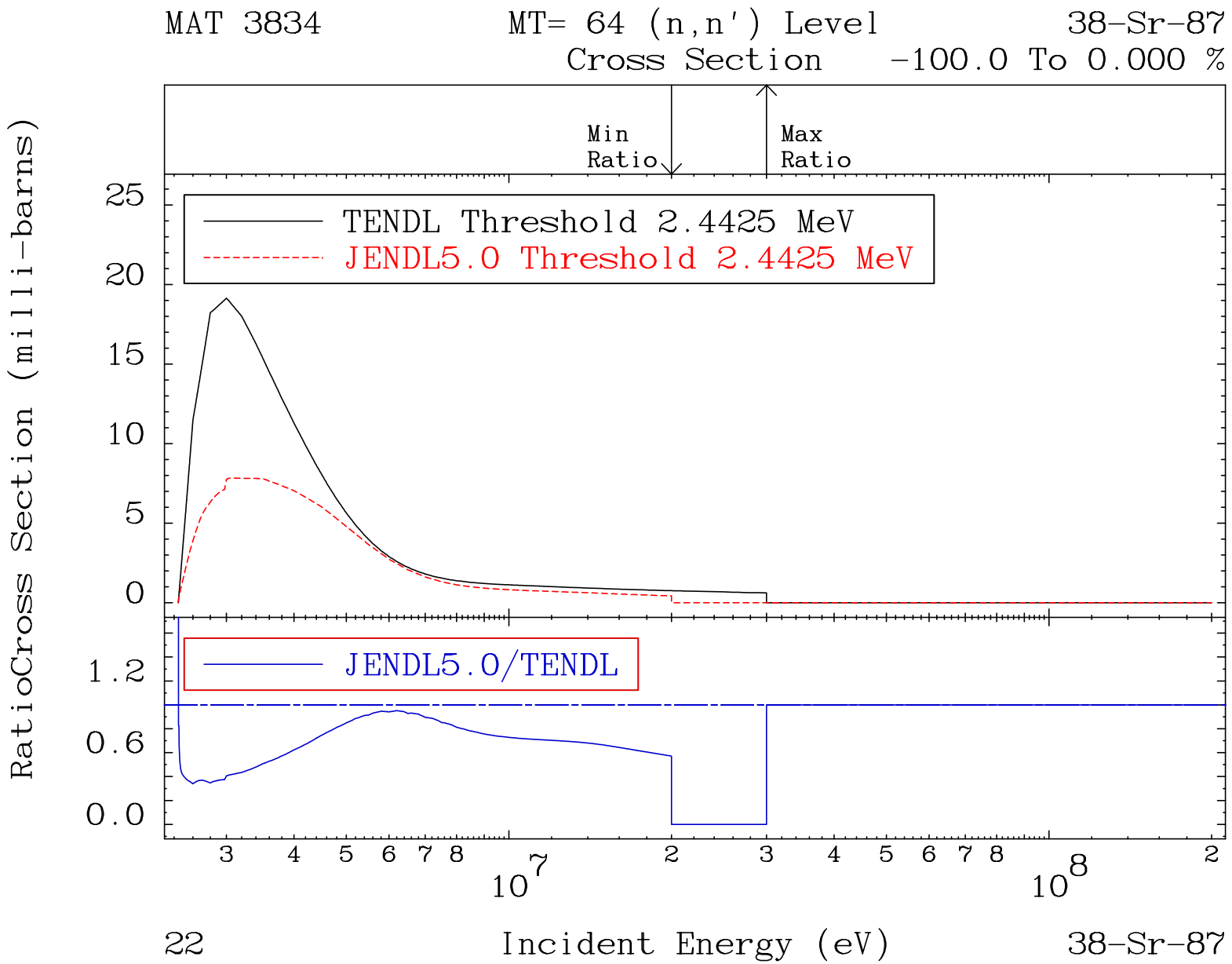

MAT 3834
MT= 59 (n,n') Level
38-Sr-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1346 MeV
JENDL5.0 Threshold 2.1346 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
80
40
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
38-Sr-87

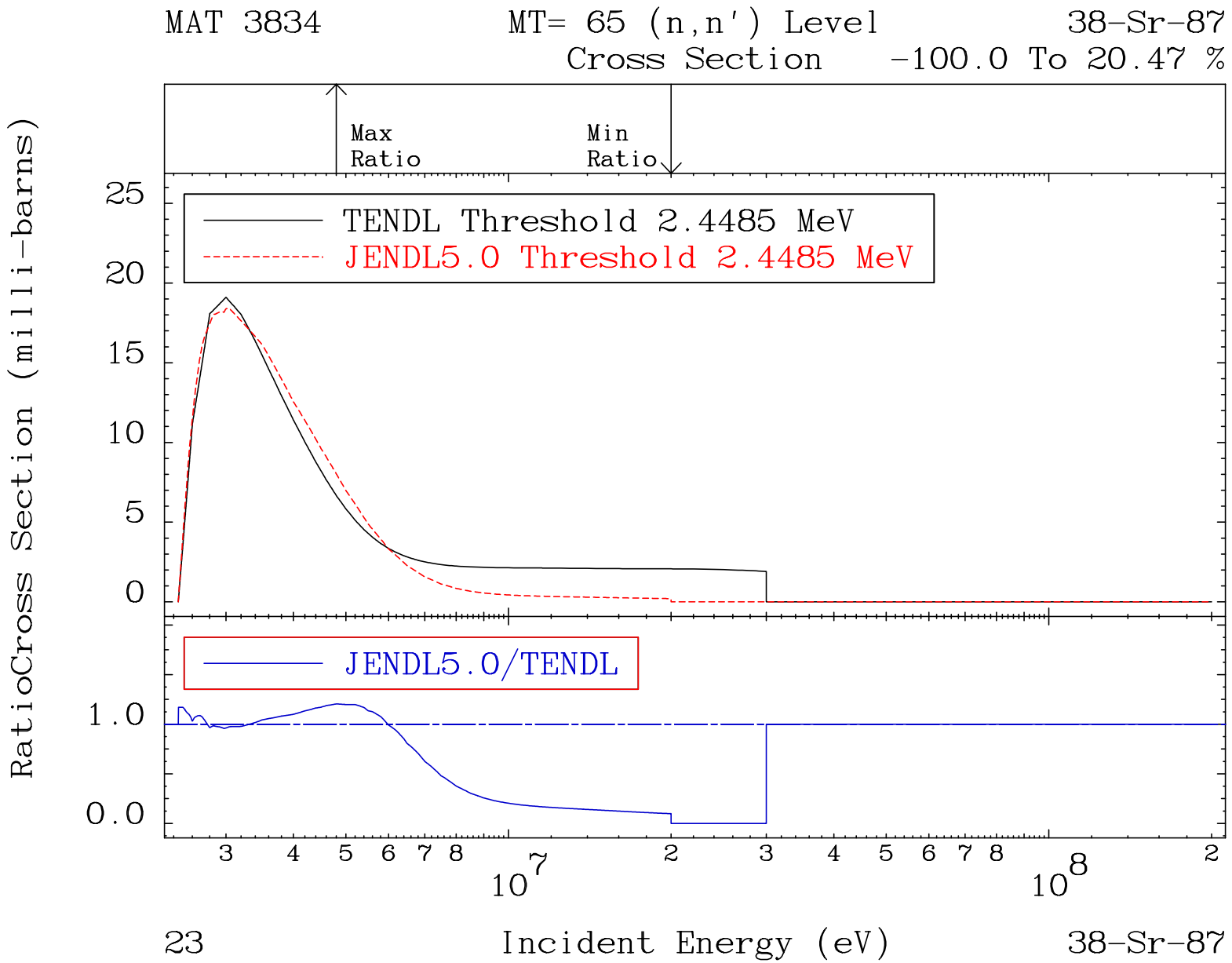

MAT 3834
MT= 60 (n,n') Level
38-Sr-87
Cross Section -100.0 To 133.3 %
Max Ratio
Min Ratio
TENDL Threshold 2.1785 MeV
JENDL5.0 Threshold 2.1785 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
38-Sr-87

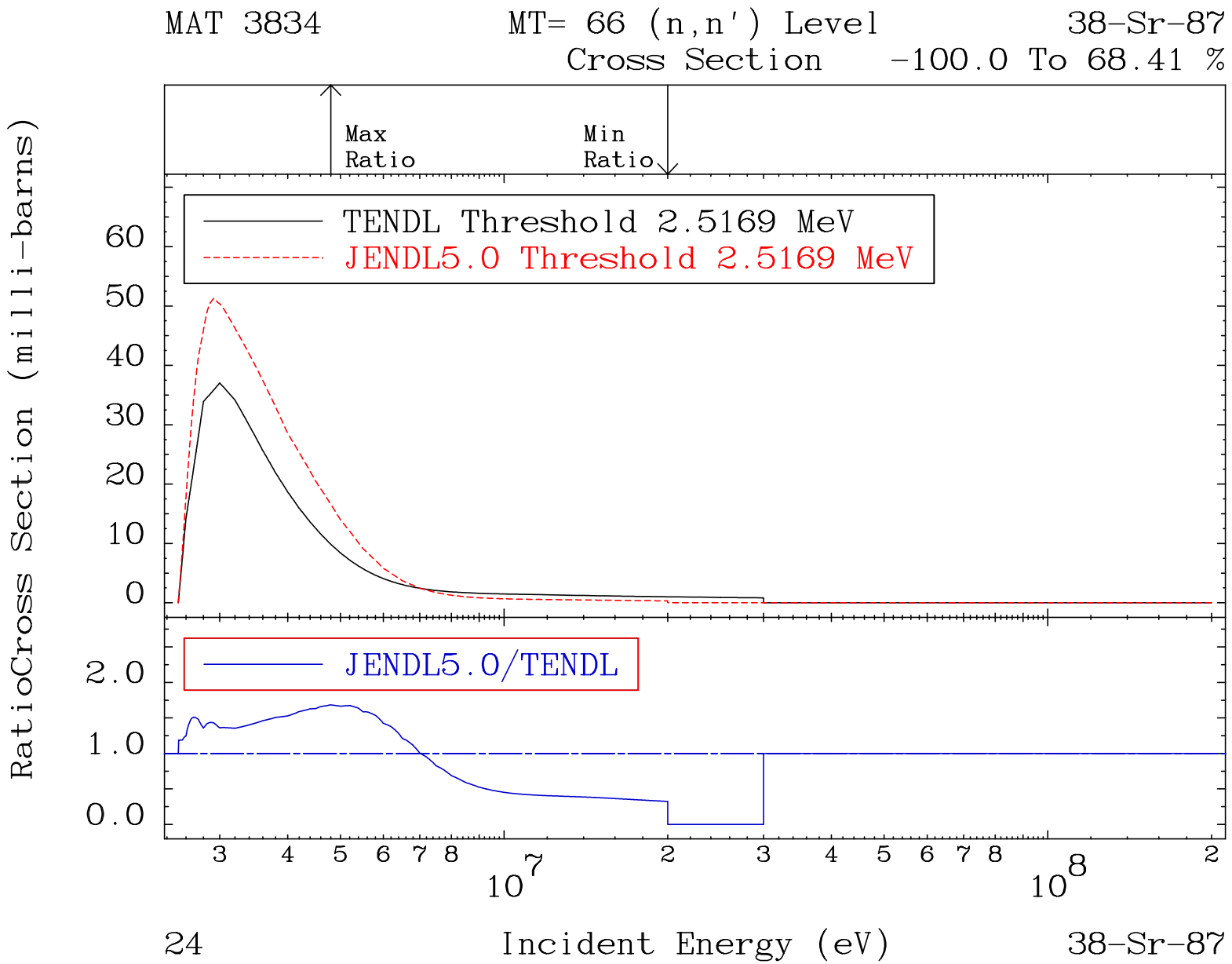

MAT 3834
MT= 61 (n,n') Level
38-Sr-87
Cross Section -100.0 To 183.2 %
Max Ratio
Min Ratio
TENDL Threshold 2.1946 MeV
JENDL5.0 Threshold 2.1946 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
38-Sr-87

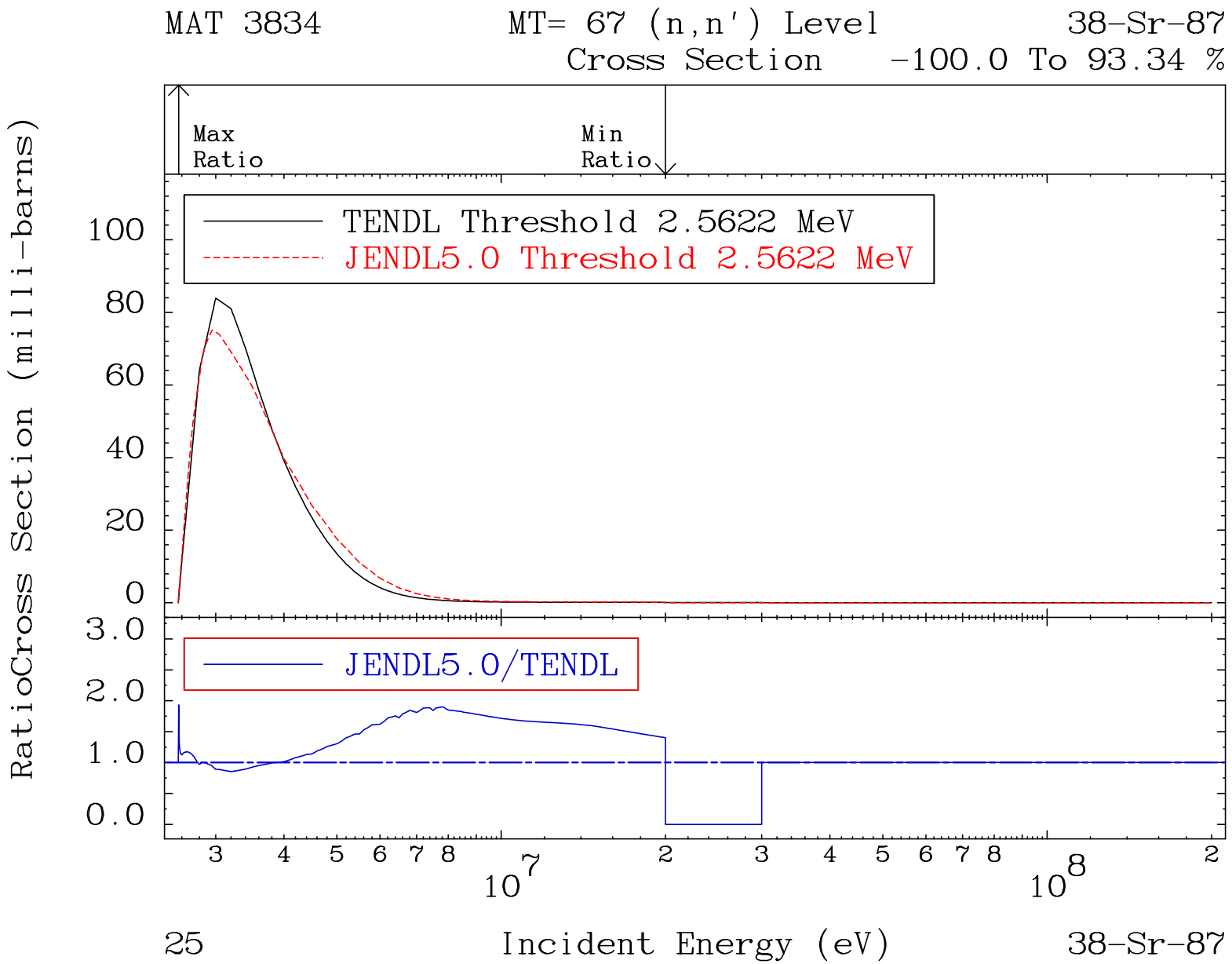

MAT 3834
MT= 62 (n,n') Level
38-Sr-87
Cross Section -100.0 To 19.70 %
Max Ratio
Min Ratio
TENDL Threshold 2.2616 MeV
JENDL5.0 Threshold 2.2616 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
38-Sr-87

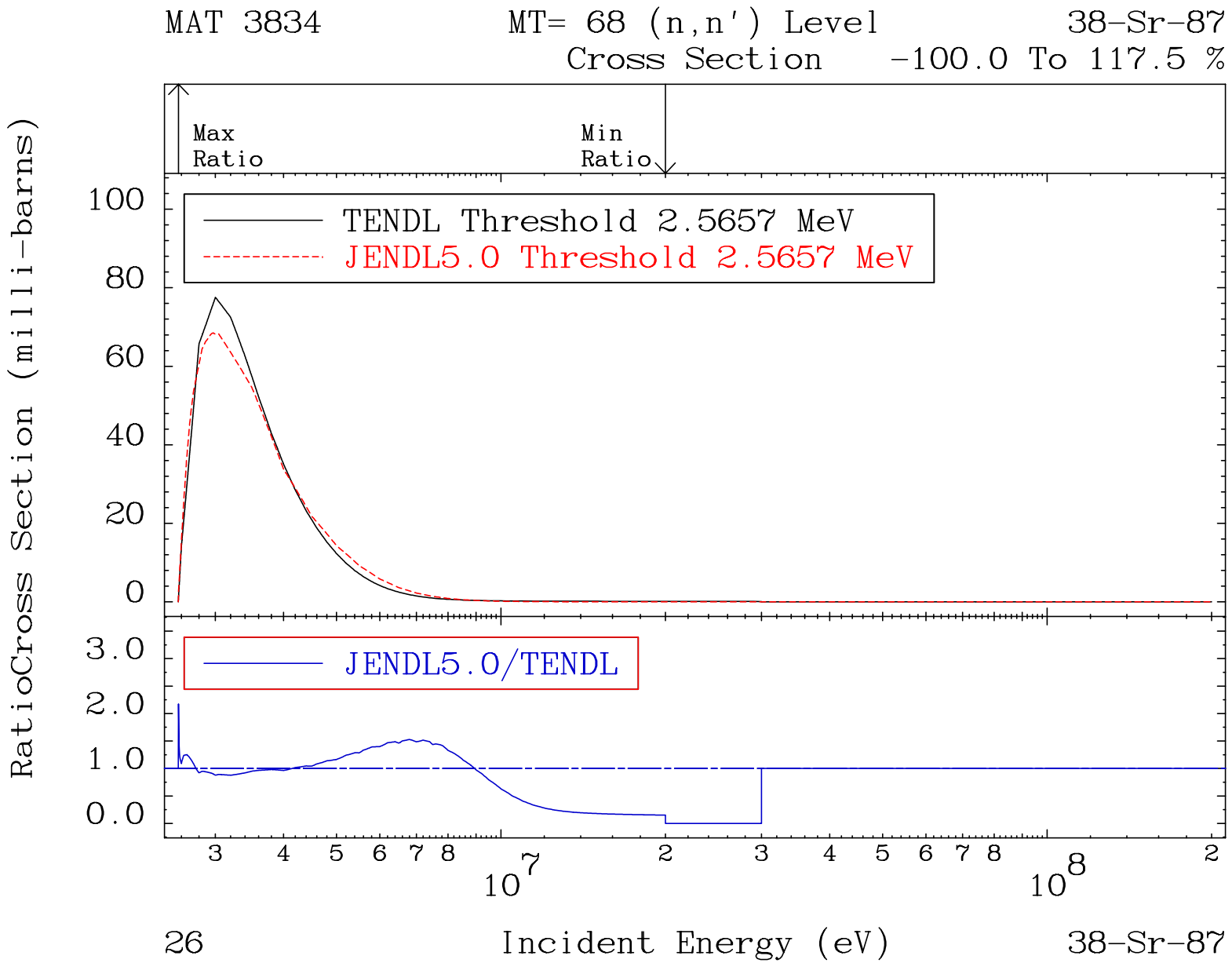

MAT 3834
MT= 63 (n,n') Level
38-Sr-87
Cross Section
-100.0 To 968.1 %
Max Ratio
Min Ratio
TENDL Threshold 2.2883 MeV
JENDL5.0 Threshold 2.2883 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
12
6
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
38-Sr-87

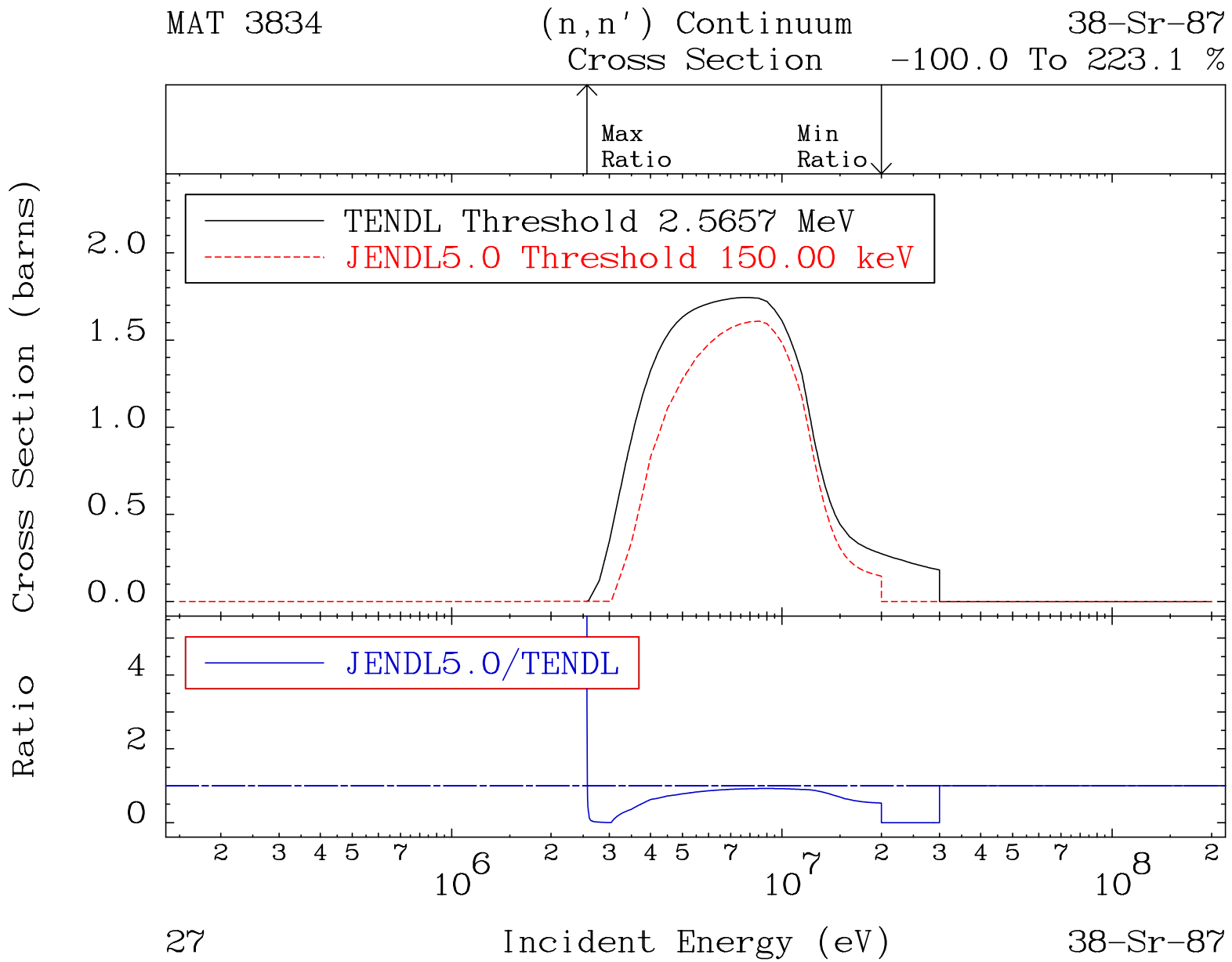

MAT 3834
MT= 64 (n,n') Level
38-Sr-87
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.4425 MeV
JENDL5.0 Threshold 2.4425 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
38-Sr-87

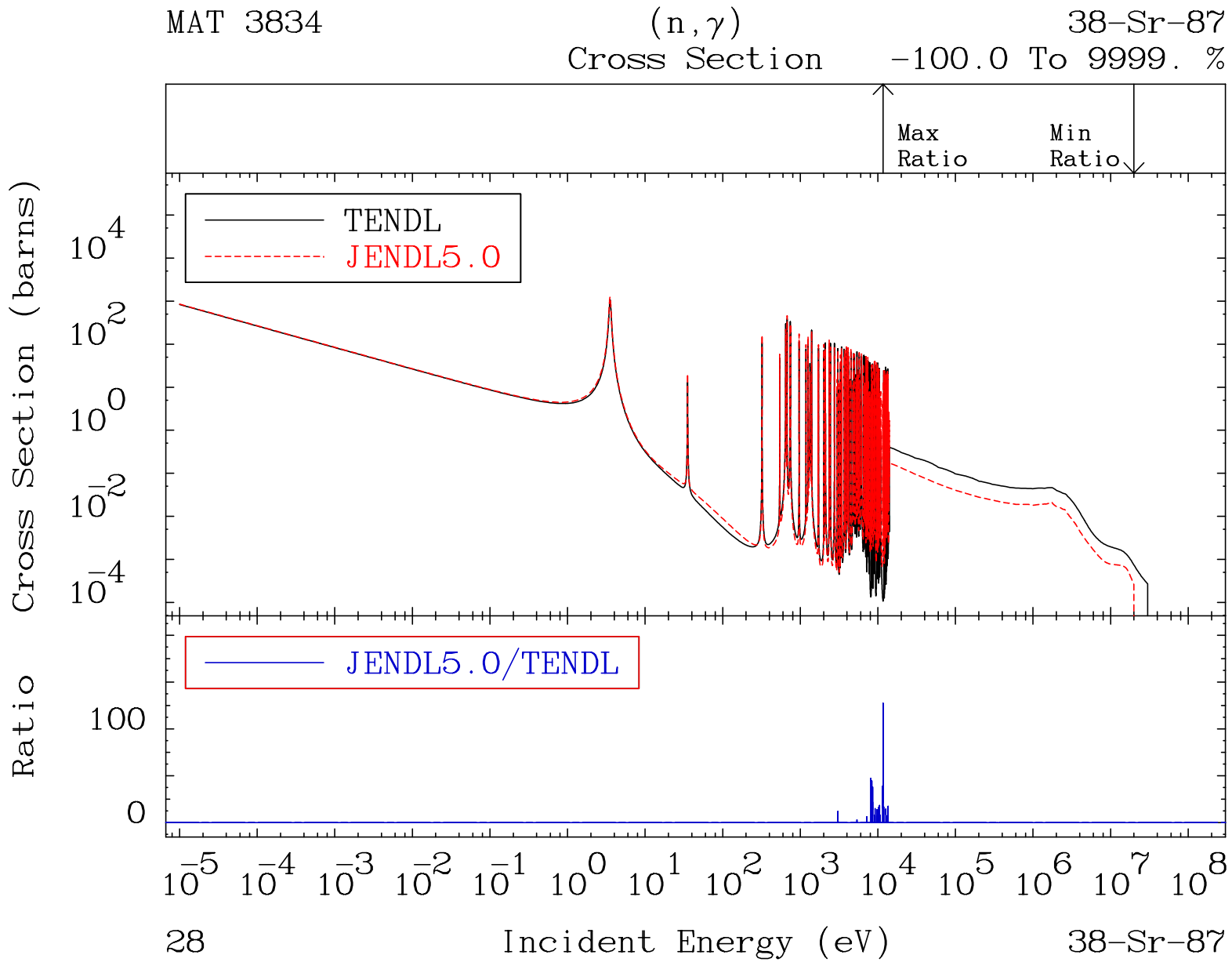

MAT 3834
MT= 65 (n,n') Level
38-Sr-87
Cross Section -100.0 To 20.47 %
Max Ratio
Min Ratio
TENDL Threshold 2.4485 MeV
JENDL5.0 Threshold 2.4485 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
38-Sr-87

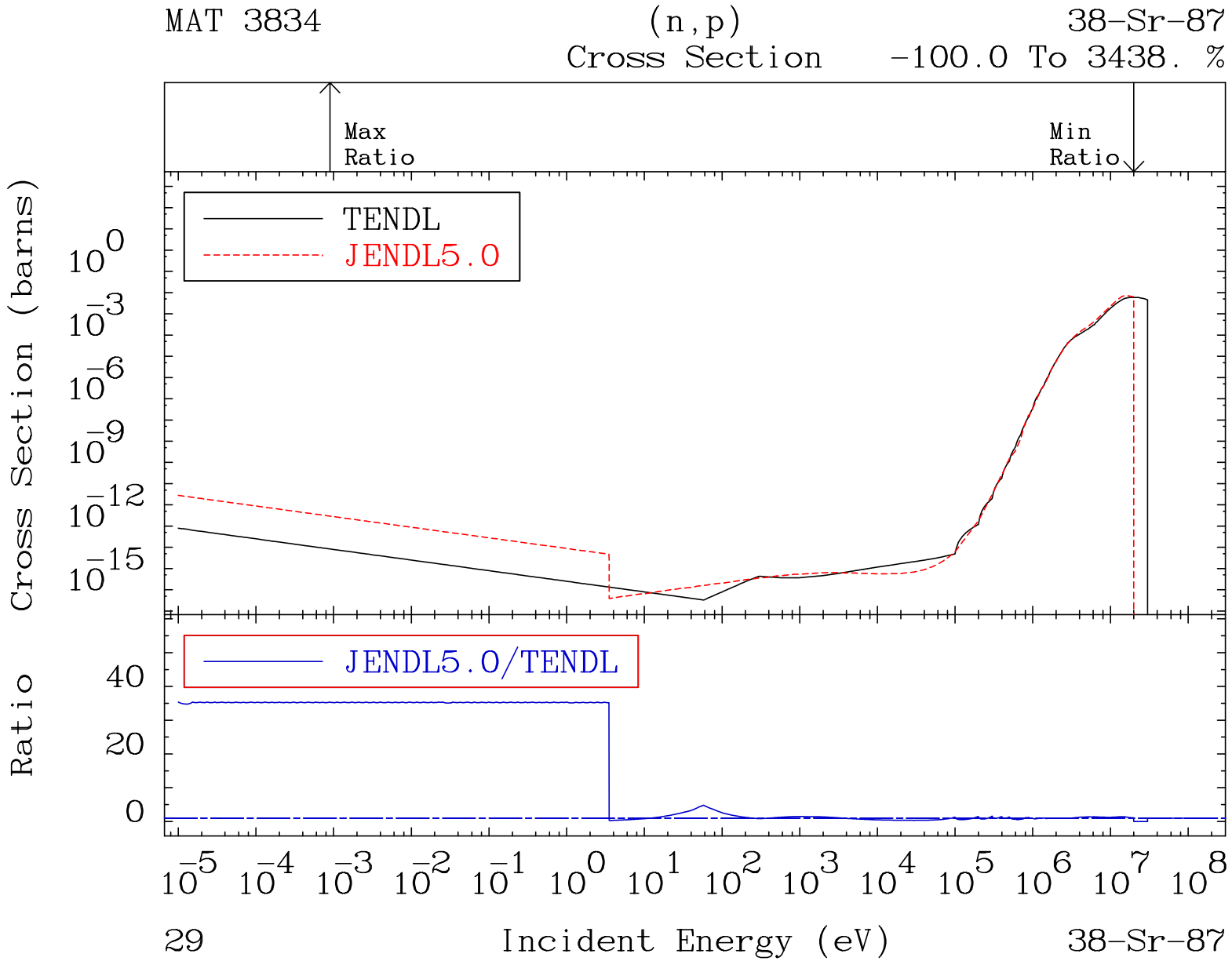

MAT 3834
MT= 66 (n,n') Level
38-Sr-87
Cross Section -100.0 To 68.41 %
Max Ratio
Min Ratio
TENDL Threshold 2.5169 MeV
JENDL5.0 Threshold 2.5169 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
38-Sr-87

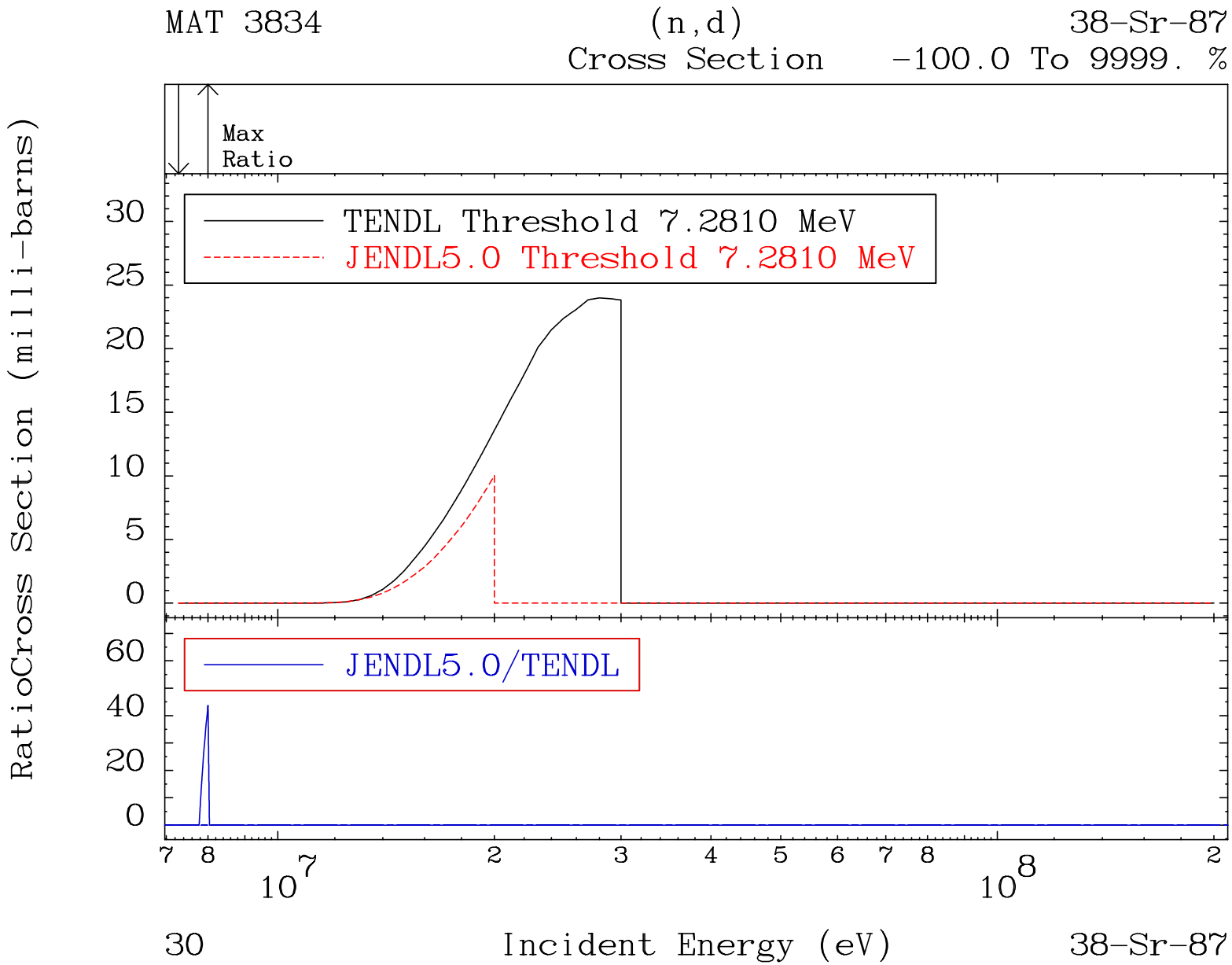

MAT 3834
MT= 67 (n,n') Level
38-Sr-87
Cross Section
-100.0 To 93.34 %
Max Ratio
Min Ratio
TENDL Threshold 2.5622 MeV
JENDL5.0 Threshold 2.5622 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
38-Sr-87

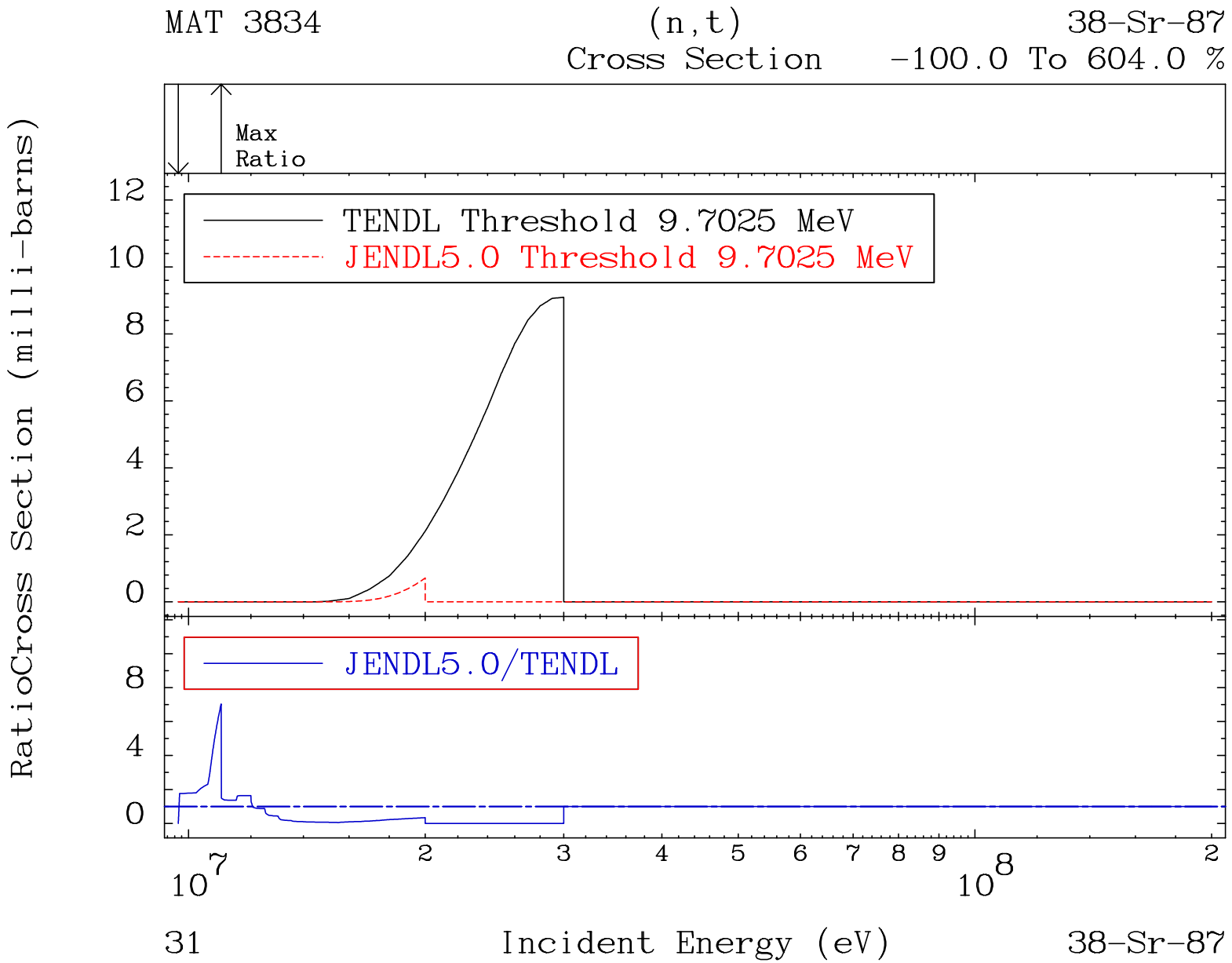

MAT 3834
MT= 68 (n,n') Level
38-Sr-87
Cross Section -100.0 To 117.5 %
Max Ratio
Min Ratio
TENDL Threshold 2.5657 MeV
JENDL5.0 Threshold 2.5657 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
38-Sr-87

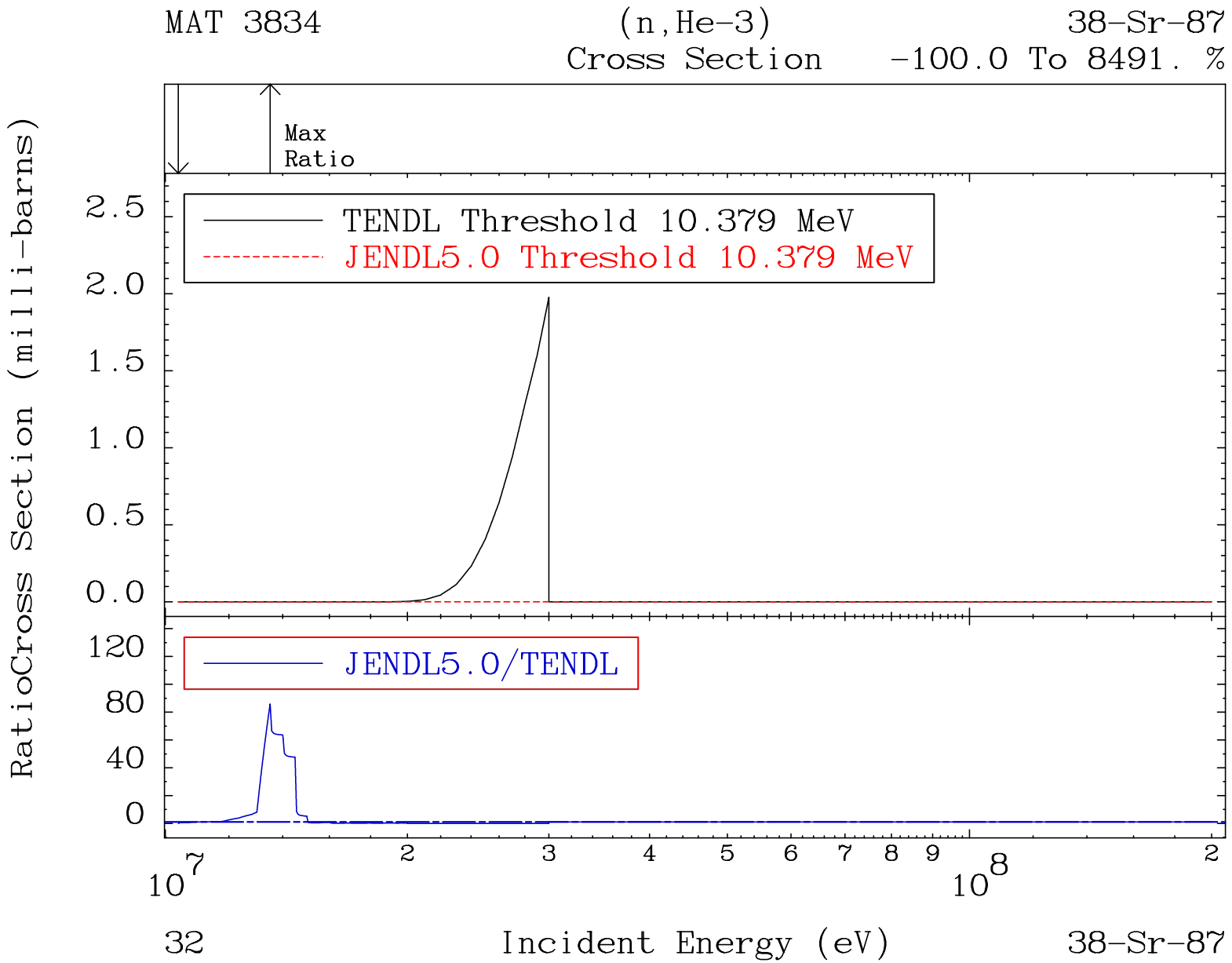

MAT 3834
(n,n') Continuum
Cross Section
38-Sr-87
-100.0 To 223.1 %
Max Ratio
Min Ratio
TENDL Threshold 2.5657 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
38-Sr-87

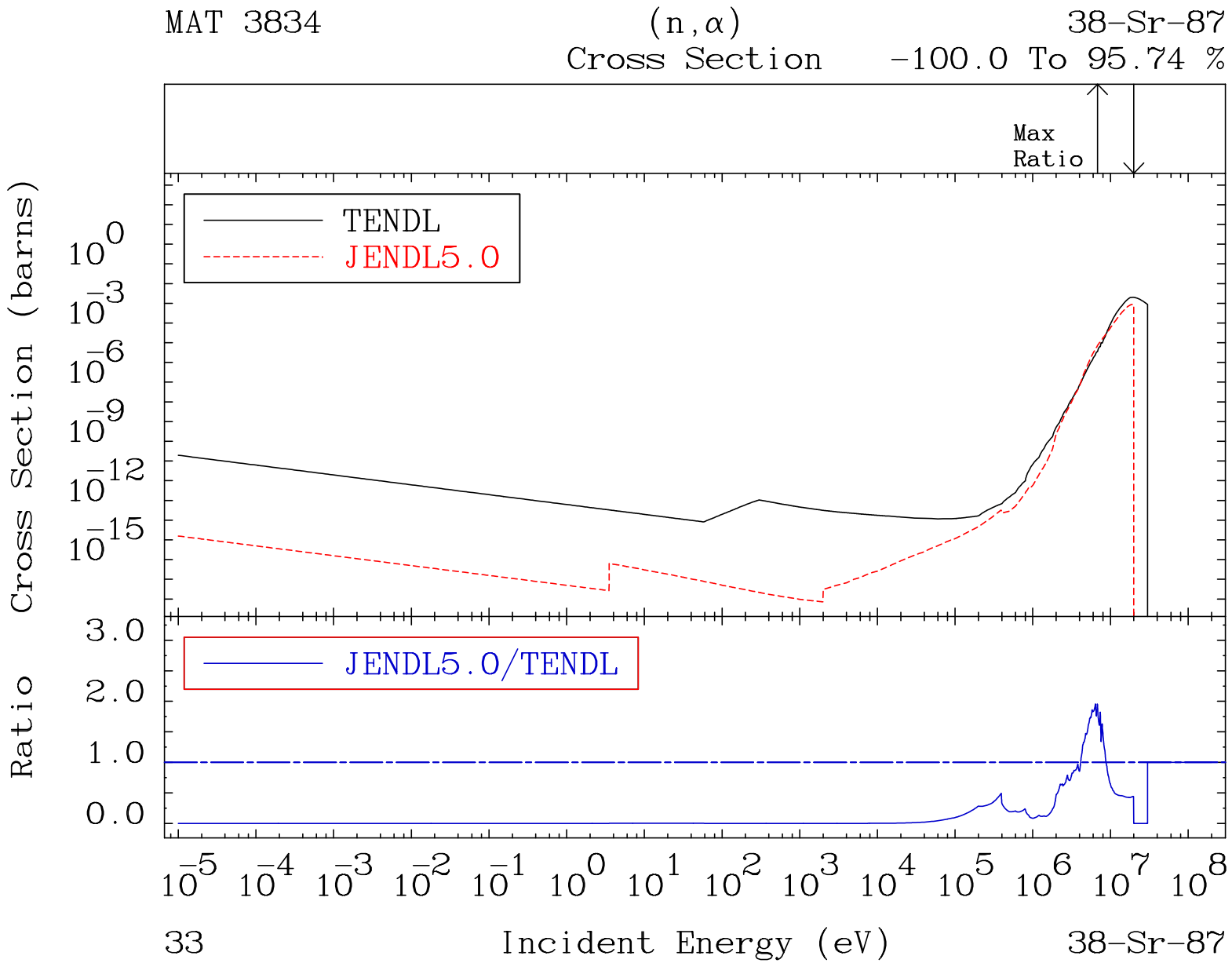

MAT 3834
(n,γ)
Cross Section
38-Sr-87
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
28
38-Sr-87

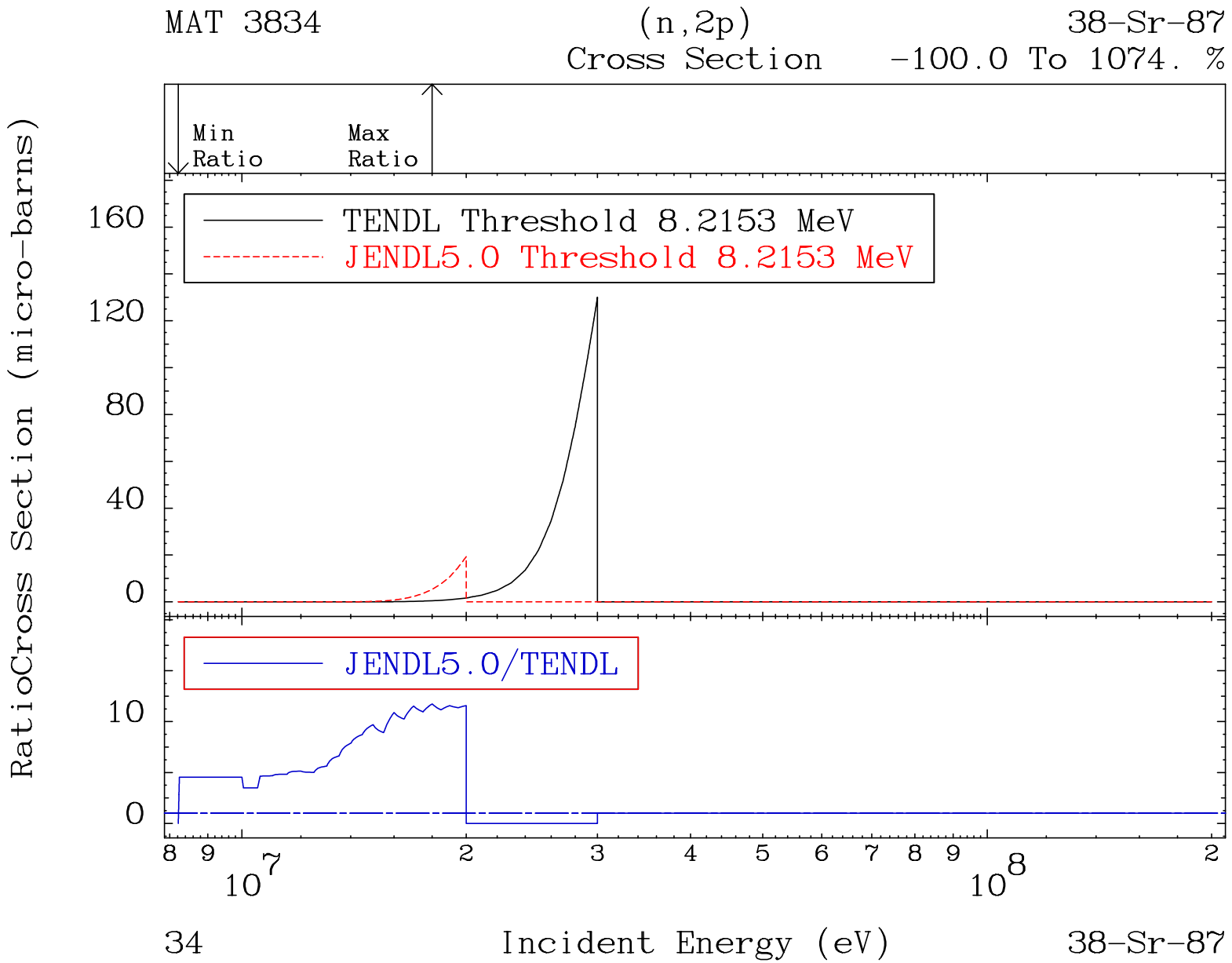

MAT 3834
(n,p)
Cross Section
38-Sr-87
-100.0 To 3438. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
38-Sr-87

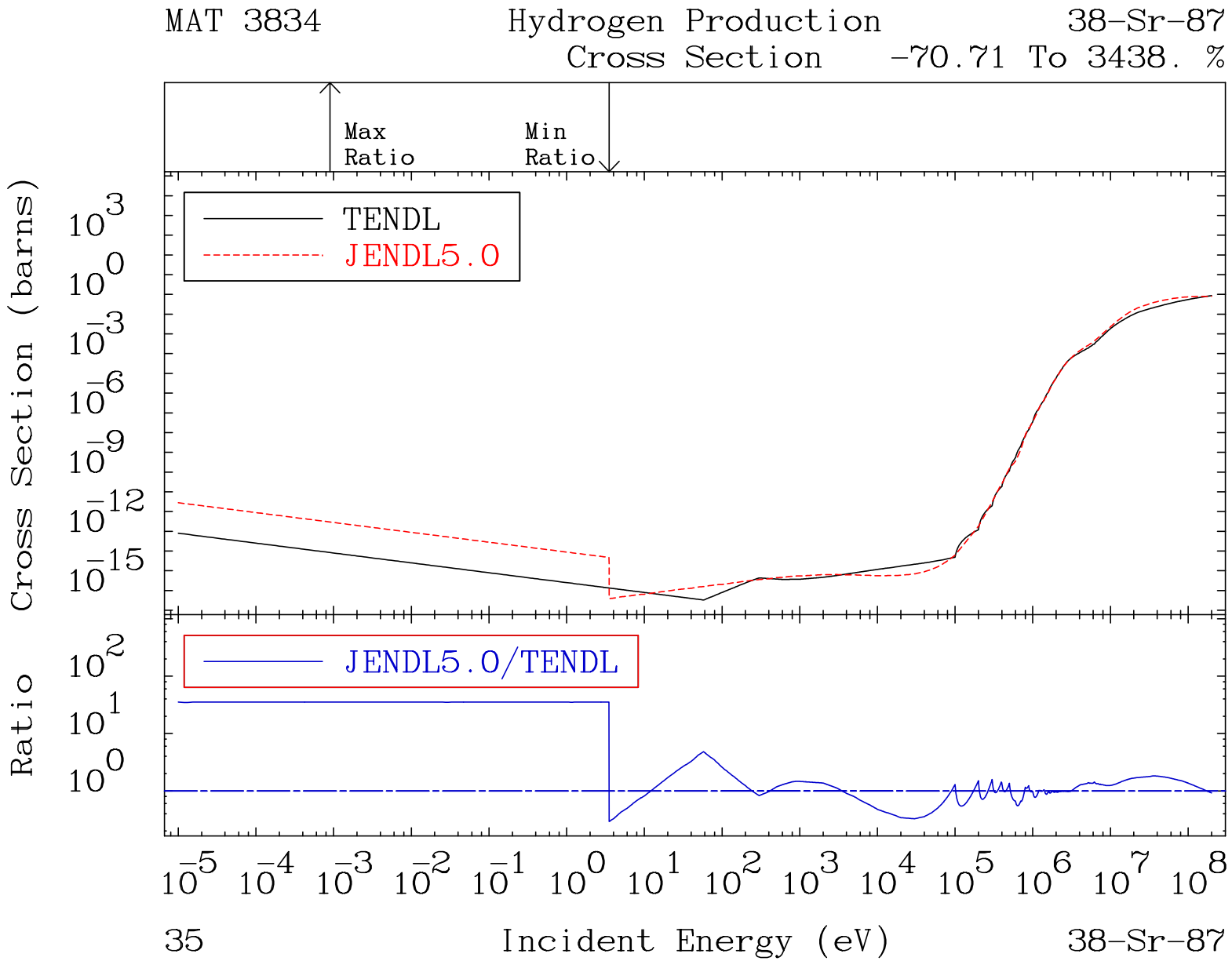

MAT 3834
(n,d)
Cross Section
38-Sr-87
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.2810 MeV
JENDL5.0 Threshold 7.2810 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
60
40
20
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
38-Sr-87

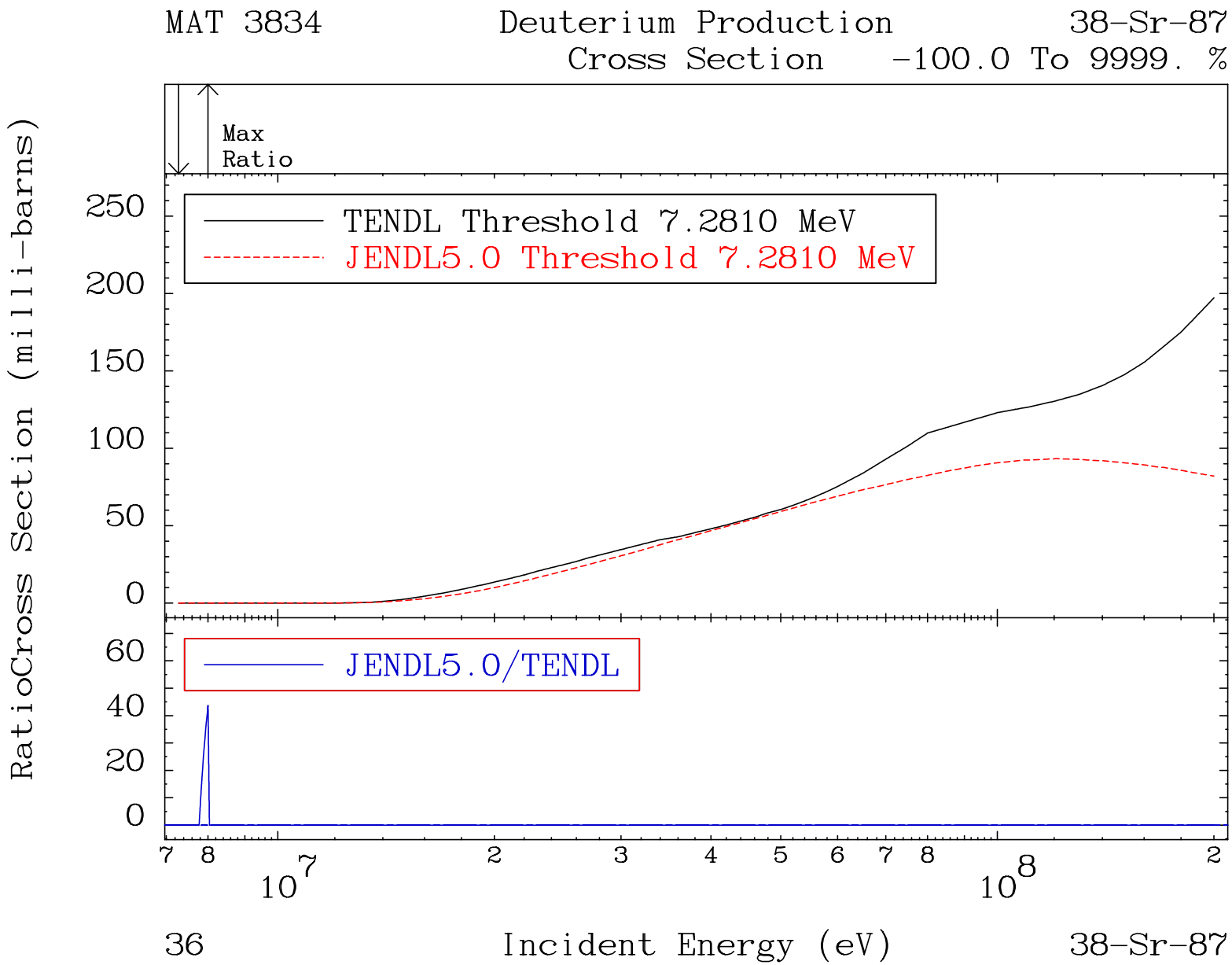

MAT 3834
(n,t)
Cross Section
38-Sr-87
-100.0 To 604.0 %
Max
Ratio
TENDL Threshold 9.7025 MeV
JENDL5.0 Threshold 9.7025 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
31
38-Sr-87

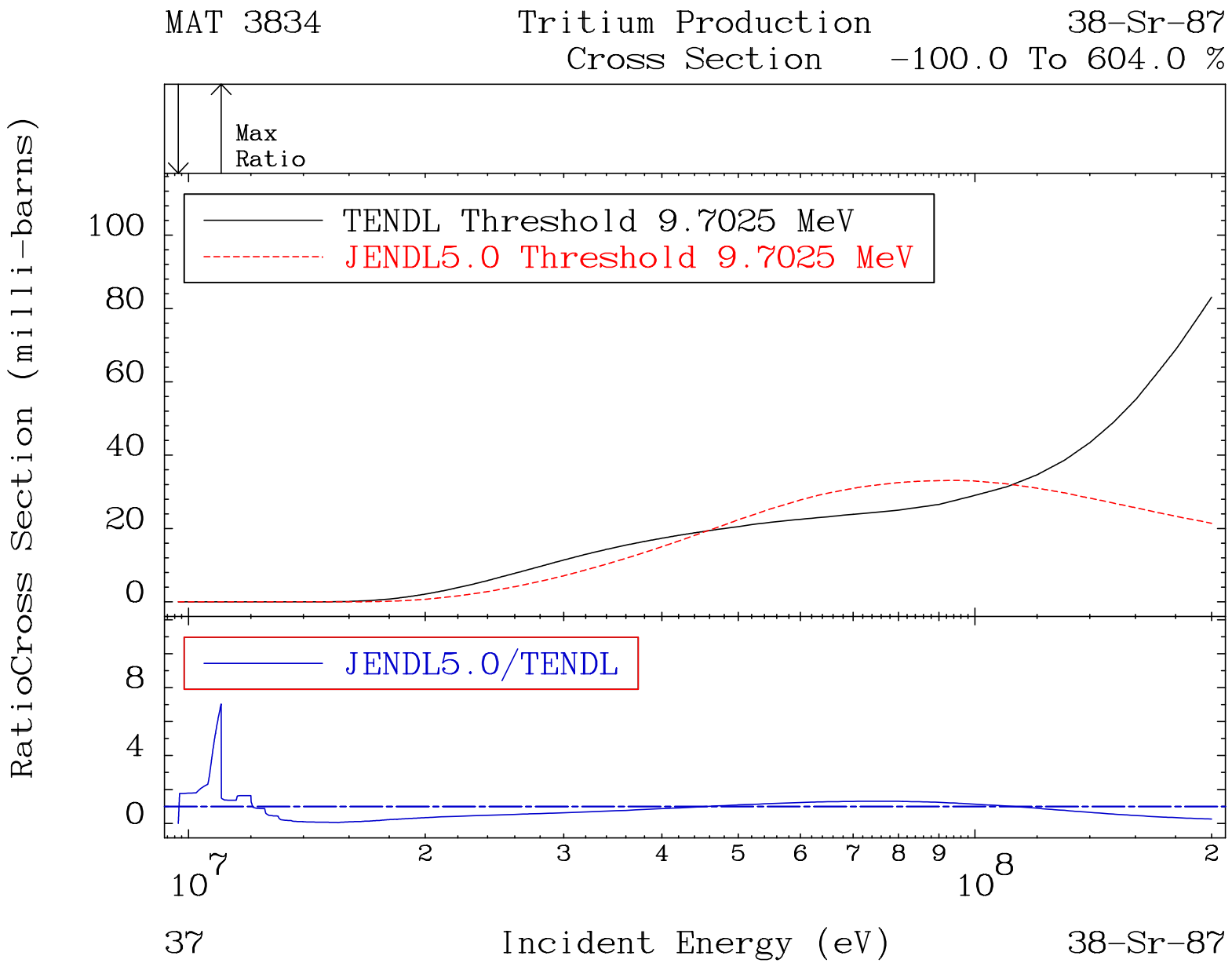

MAT 3834
(n,He-3)
Cross Section
38-Sr-87
-100.0 To 8491. %
Max
Ratio
TENDL Threshold 10.379 MeV
JENDL5.0 Threshold 10.379 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
120
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
32
Incident Energy (eV)
38-Sr-87

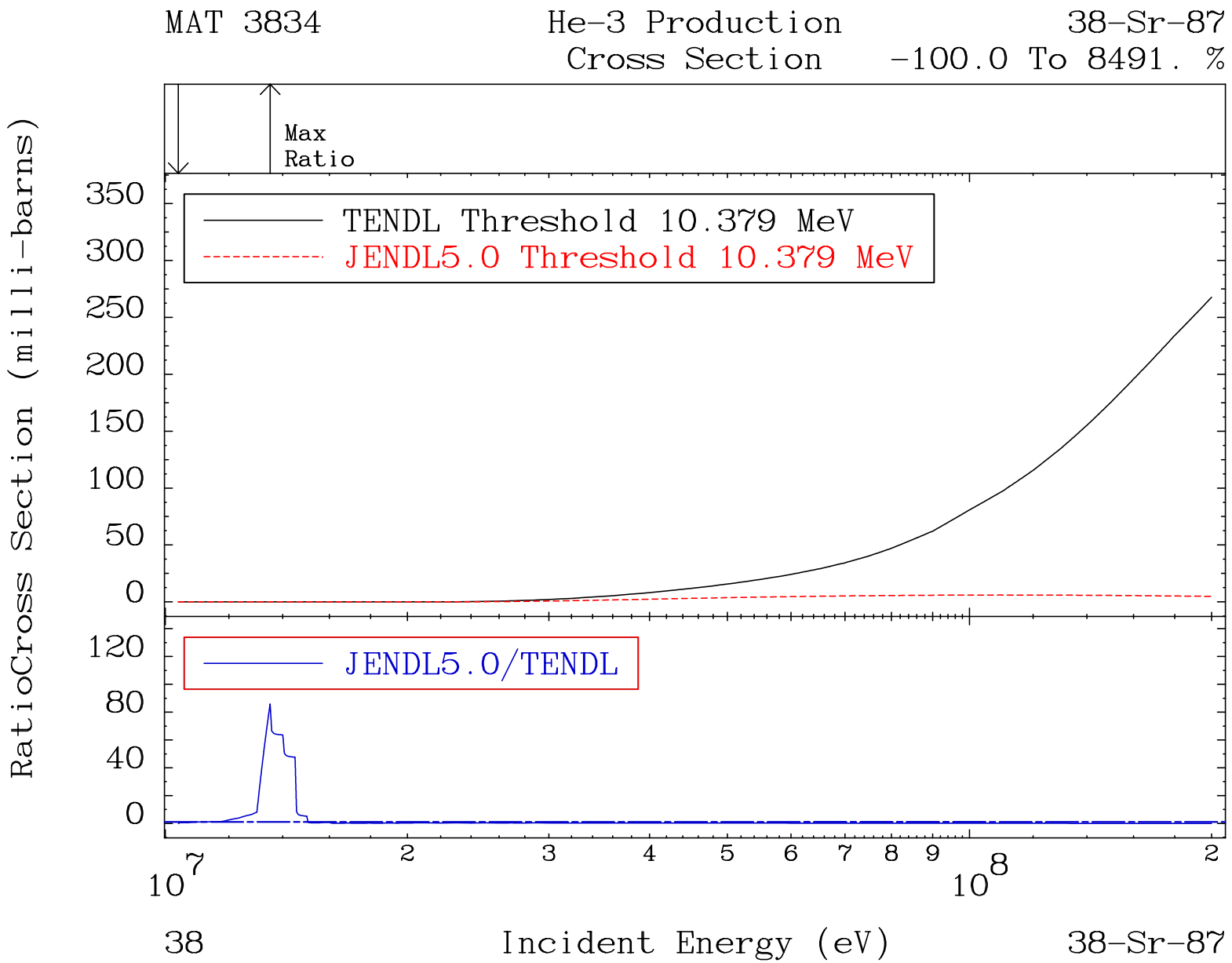

MAT 3834
(n,α)
Cross Section
38-Sr-87
-100.0 To 95.74 %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
38-Sr-87

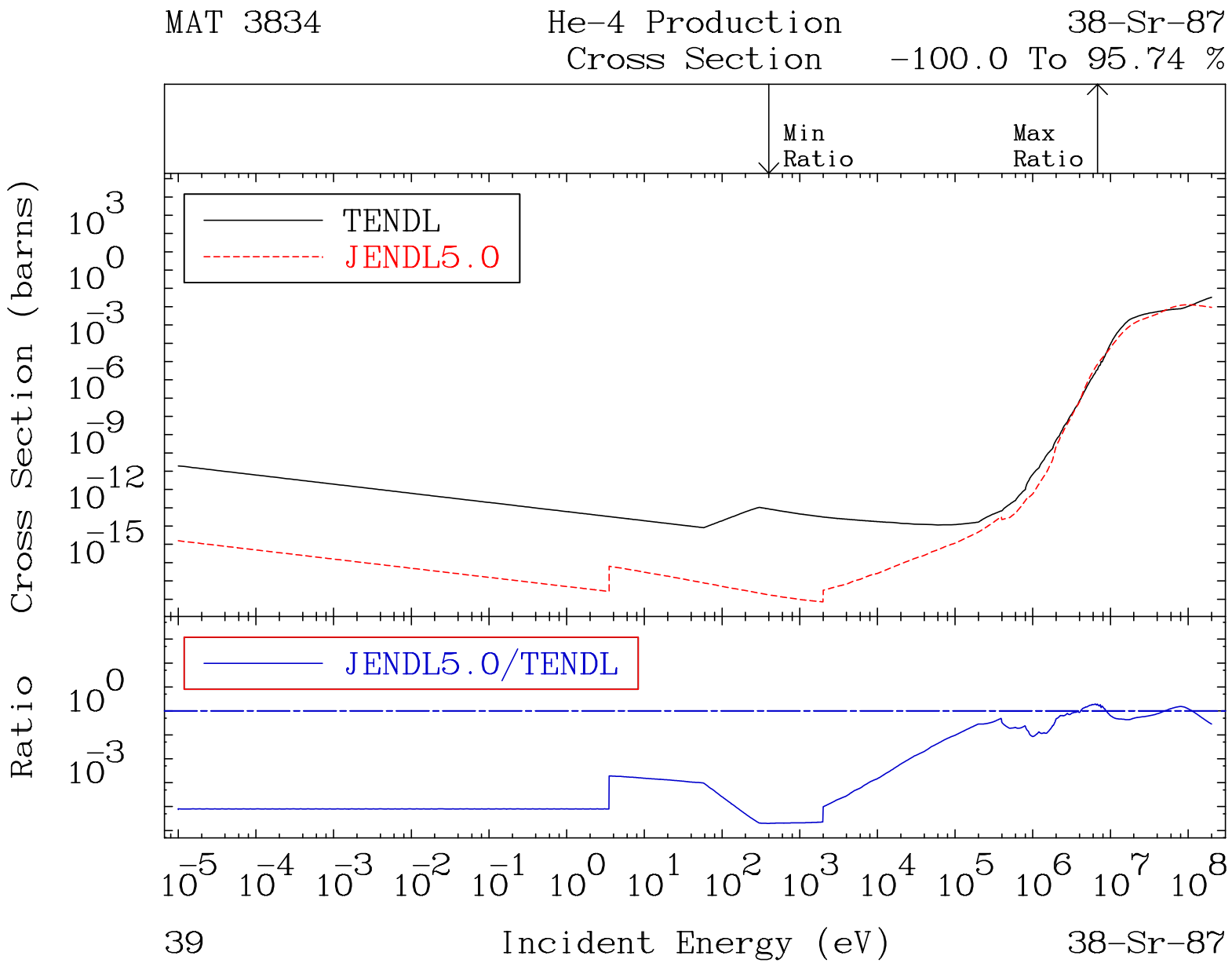

MAT 3834
(n,2p)
Cross Section
38-Sr-87
-100.0 To 1074. %
Min Ratio
Max Ratio
TENDL Threshold 8.2153 MeV
JENDL5.0 Threshold 8.2153 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
10
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
38-Sr-87

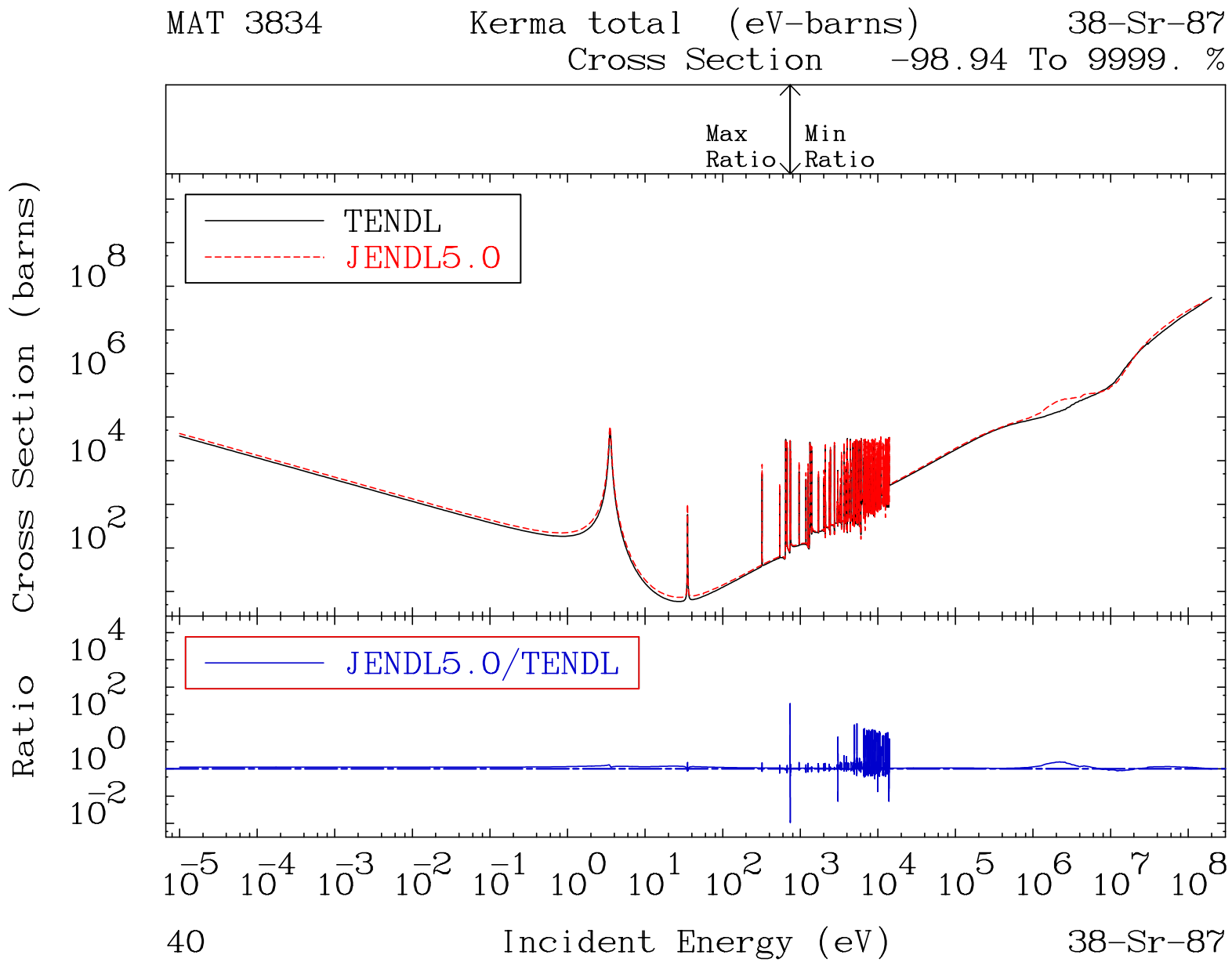

MAT 3834
Hydrogen Production
38-Sr-87
Cross Section
-70.71 To 3438. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
35
38-Sr-87

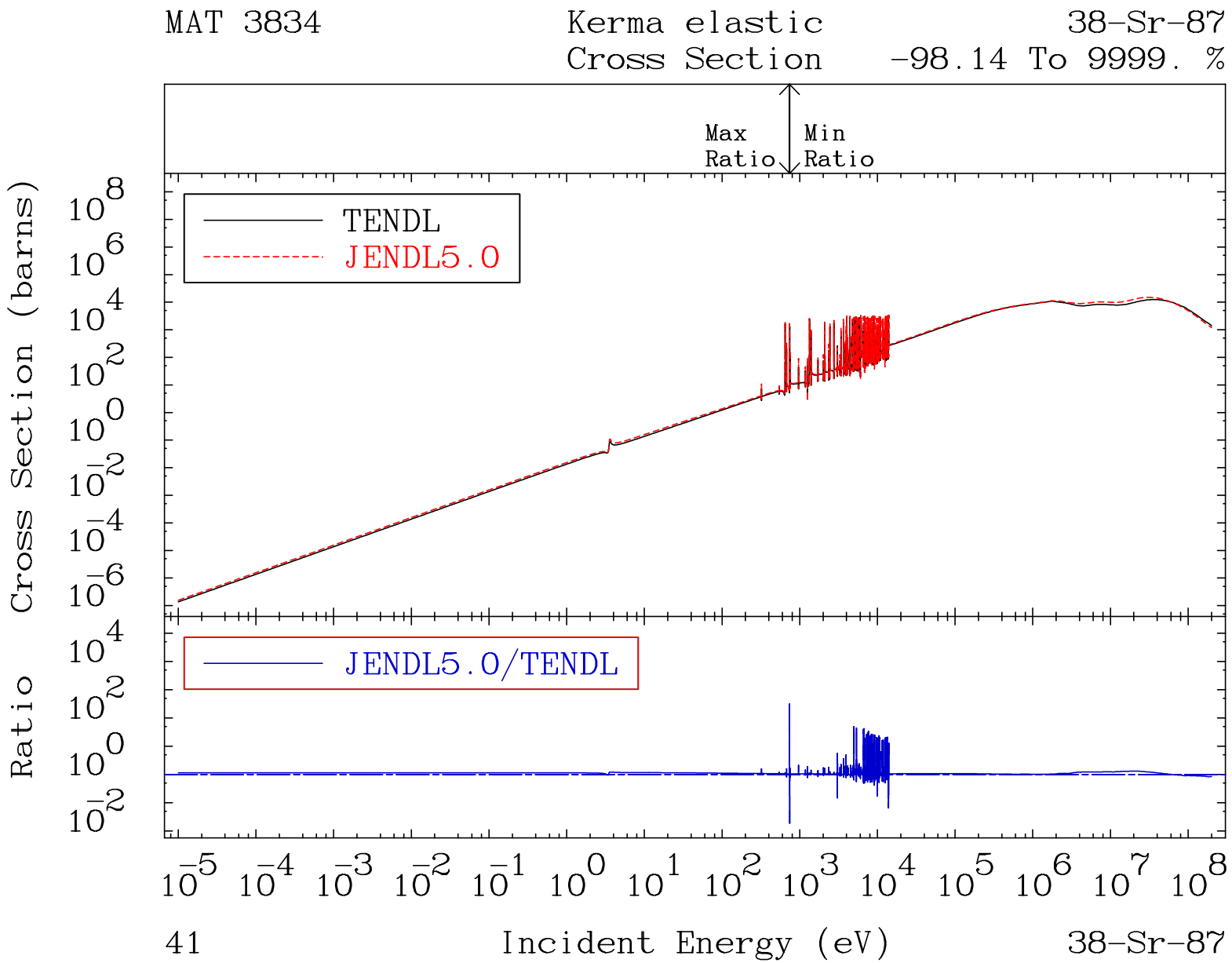

MAT 3834
Deuterium Production
38-Sr-87
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.2810 MeV
JENDL5.0 Threshold 7.2810 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
60
40
20
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
38-Sr-87

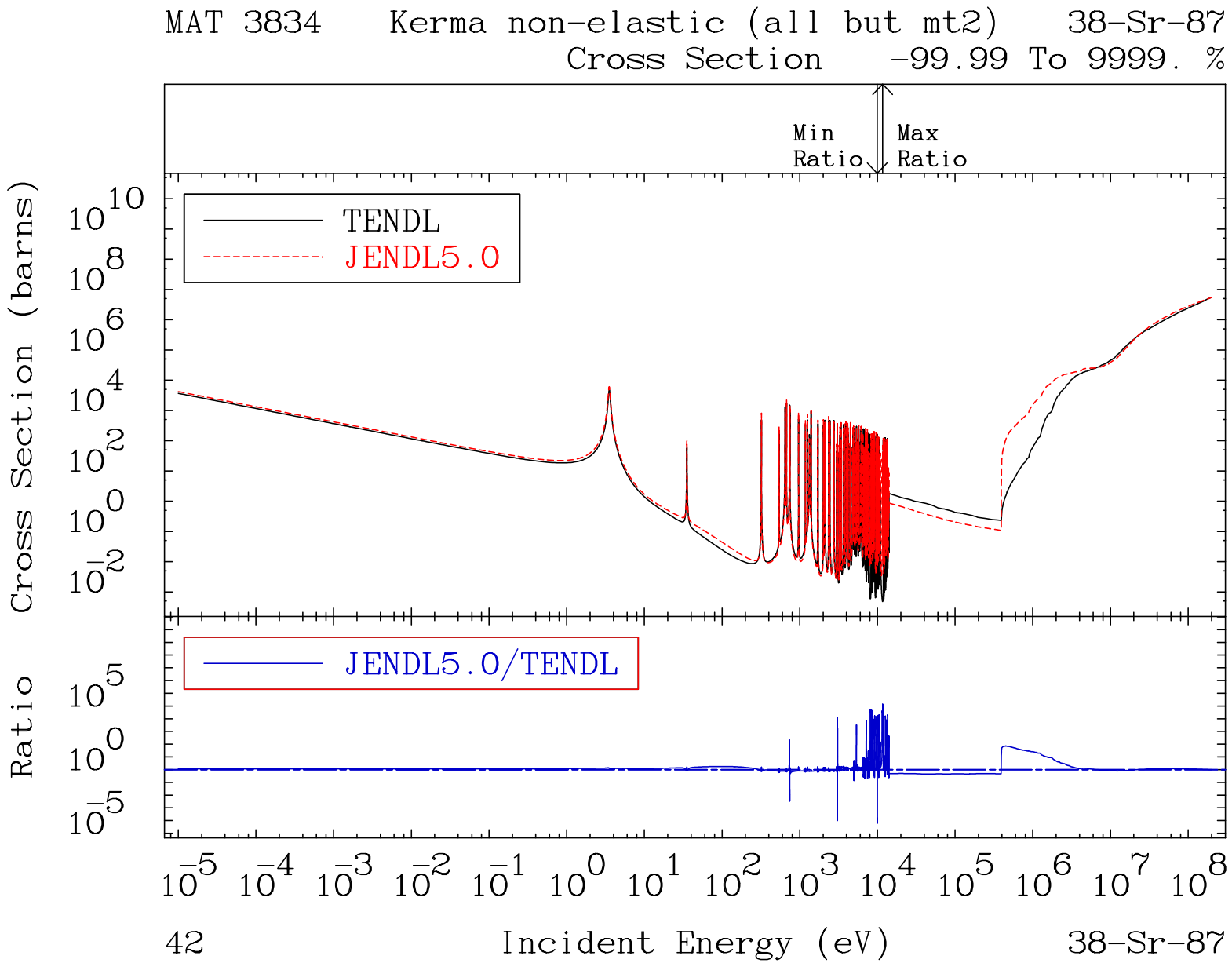

MAT 3834
Tritium Production
Cross Section
38-Sr-87
-100.0 To 604.0 %
Max
Ratio
TENDL Threshold 9.7025 MeV
JENDL5.0 Threshold 9.7025 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
38-Sr-87

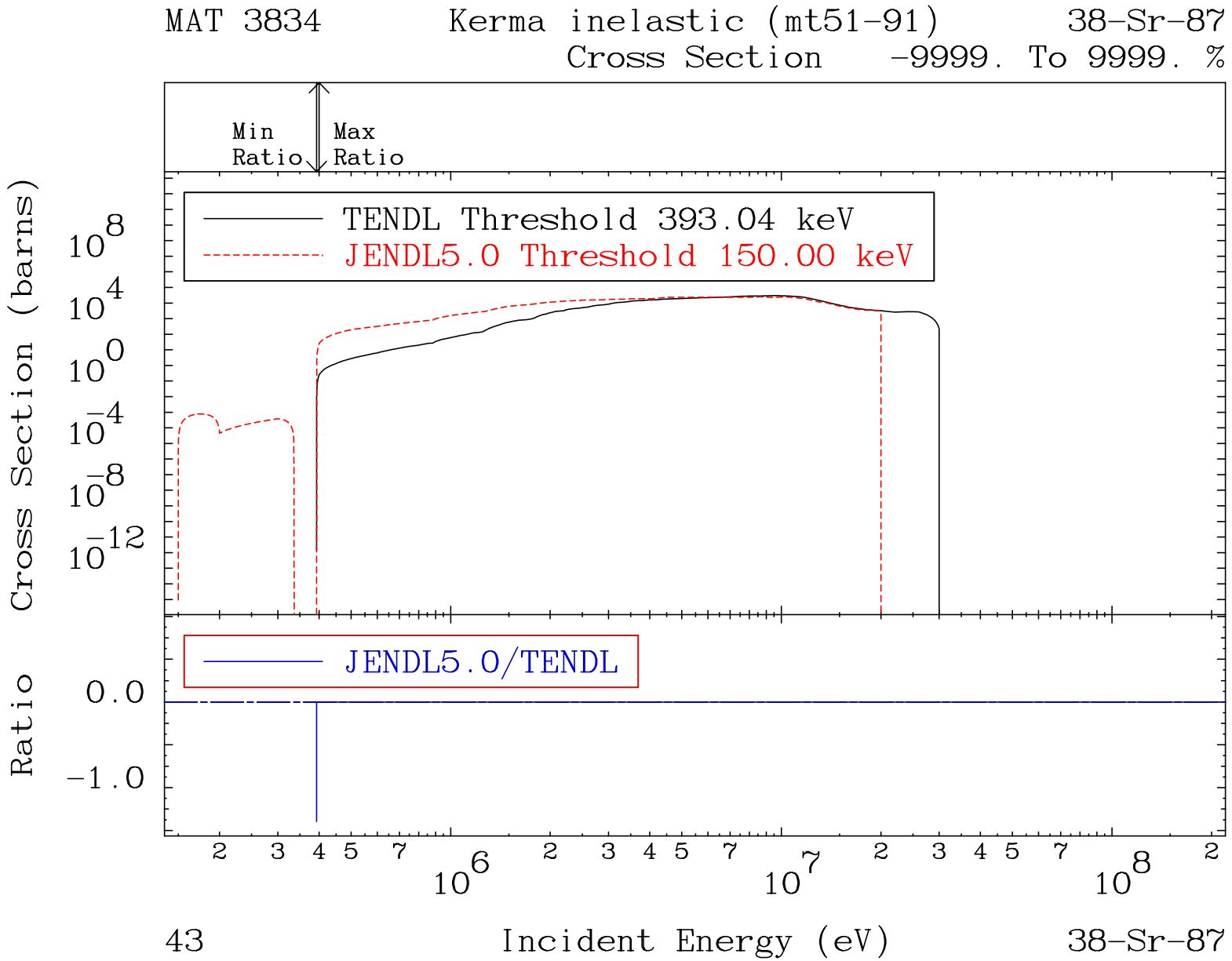

MAT 3834
He-3 Production
Cross Section
38-Sr-87
-100.0 To 8491. %
Max
Ratio
TENDL Threshold 10.379 MeV
JENDL5.0 Threshold 10.379 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
120
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
38-Sr-87

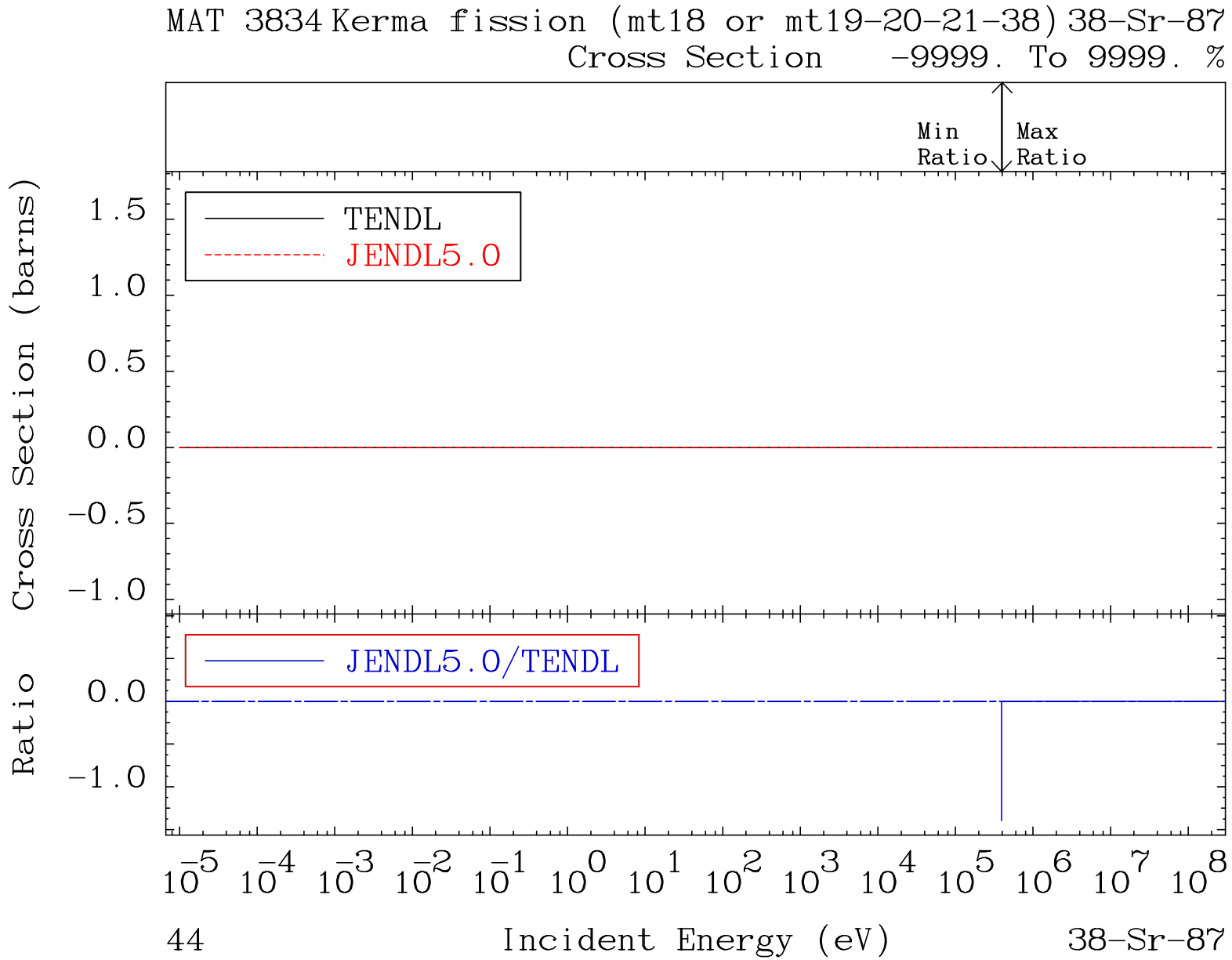

MAT 3834
He-4 Production
Cross Section
38-Sr-87
-100.0 To 95.74 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^3
10^0
10^-3
10^-6
10^-9
10^-12
10^-15
JENDL5.0/TENDL
Ratio
10^0
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
38-Sr-87

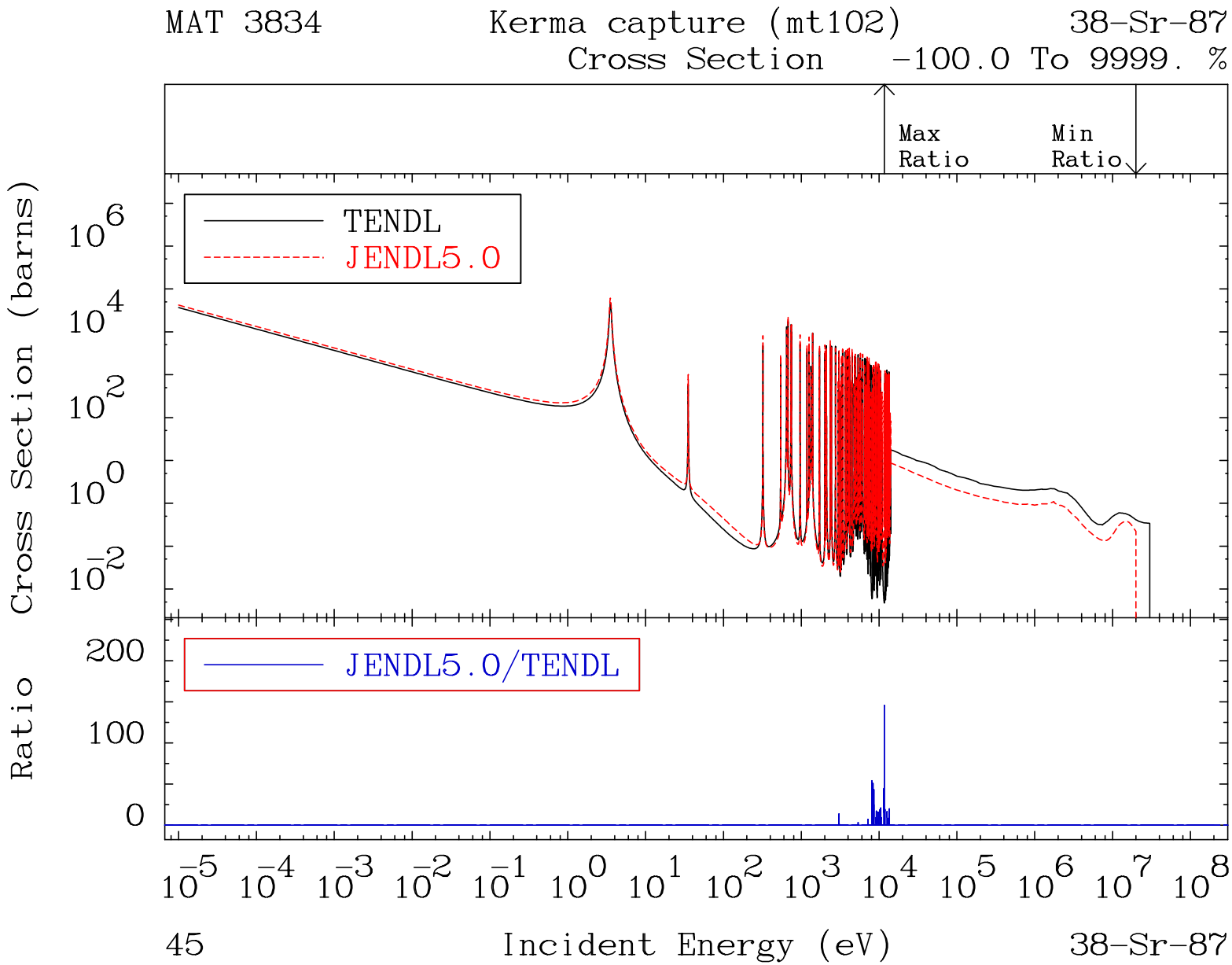

MAT 3834
Kerma total (eV-barns)
38-Sr-87
Cross Section -98.94 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
38-Sr-87

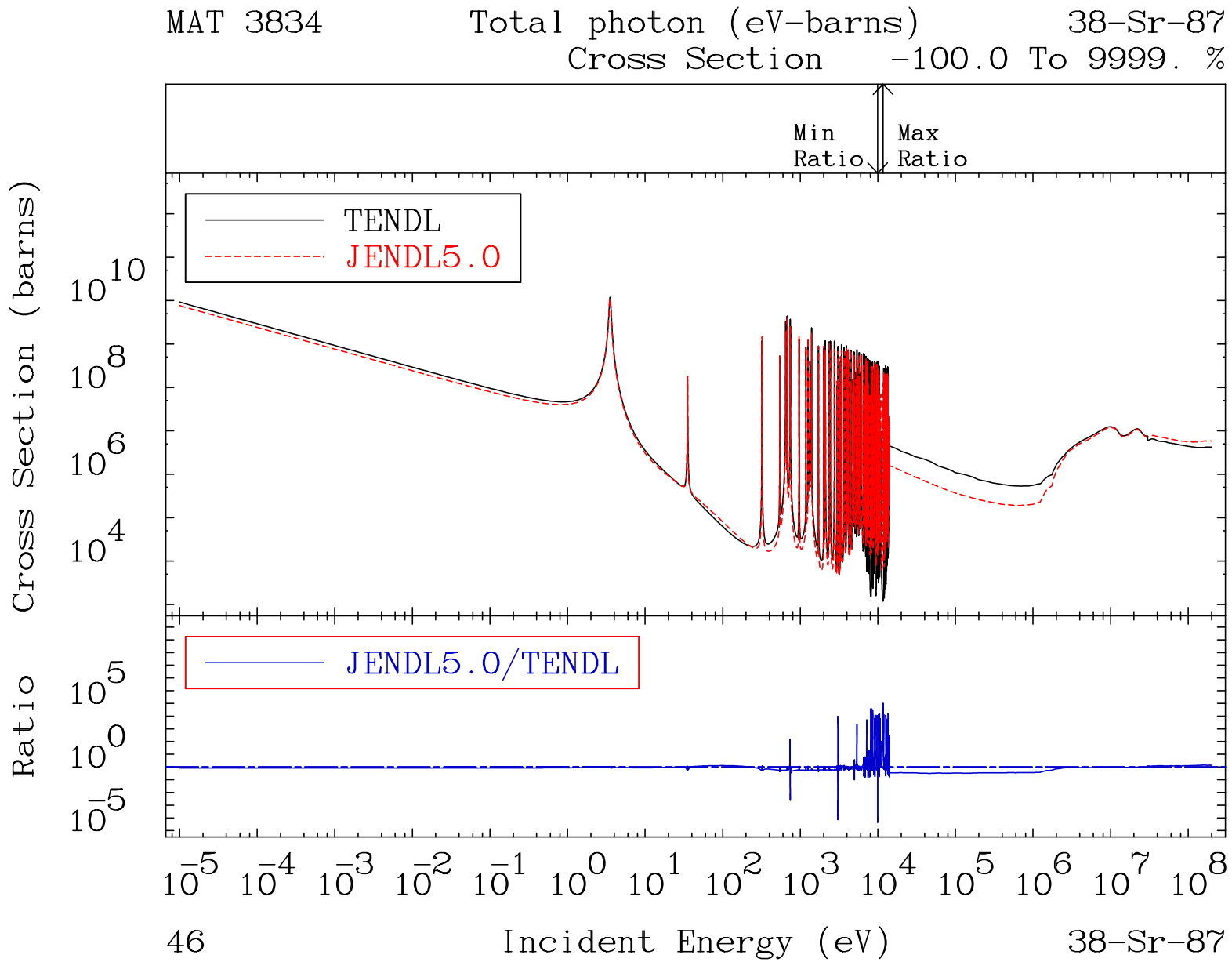

MAT 3834
Kerma elastic
Cross Section
38-Sr-87
-98.14 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
38-Sr-87

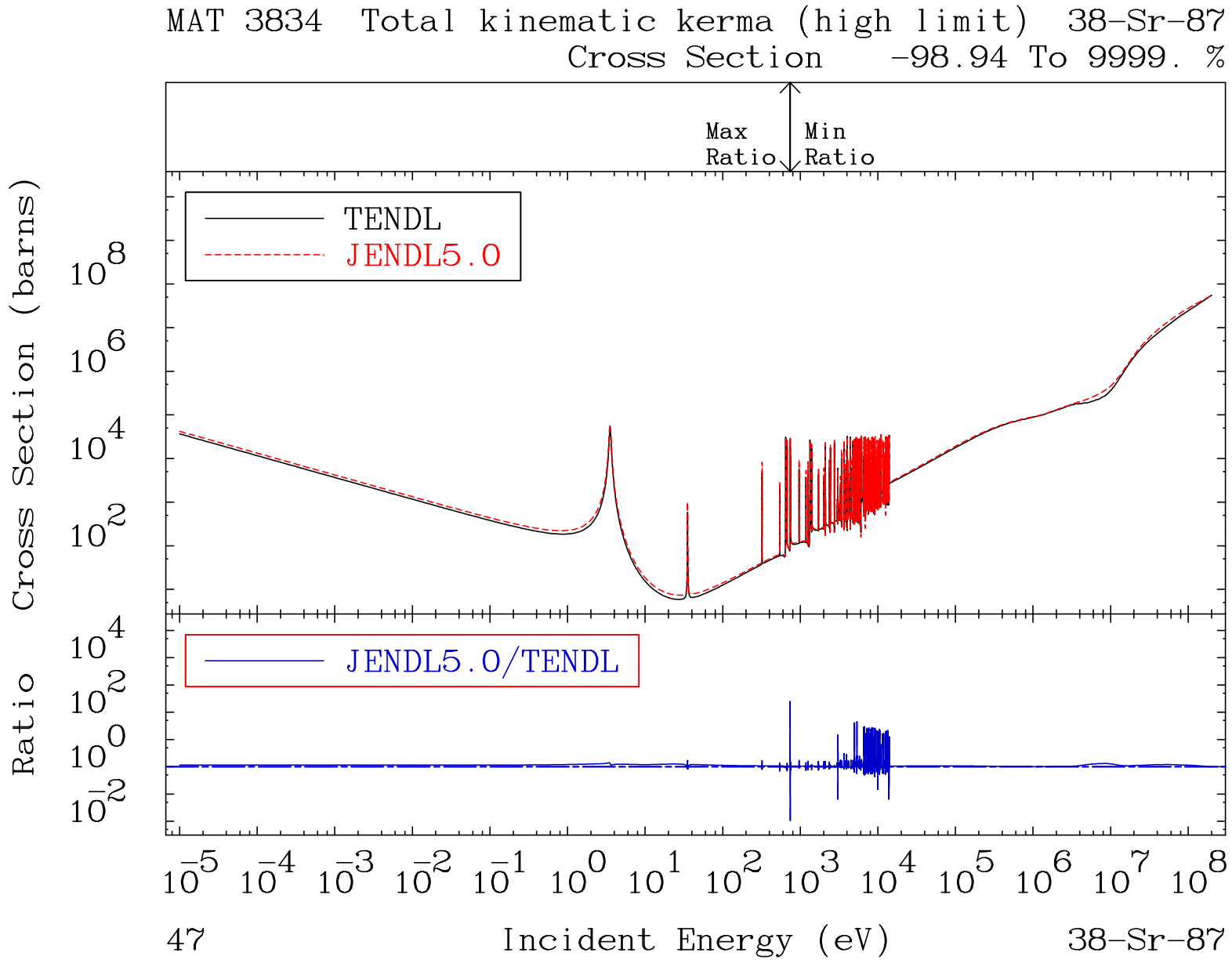

MAT 3834 Kerma non-elastic (all but mt2) 38-Sr-87
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
42
38-Sr-87

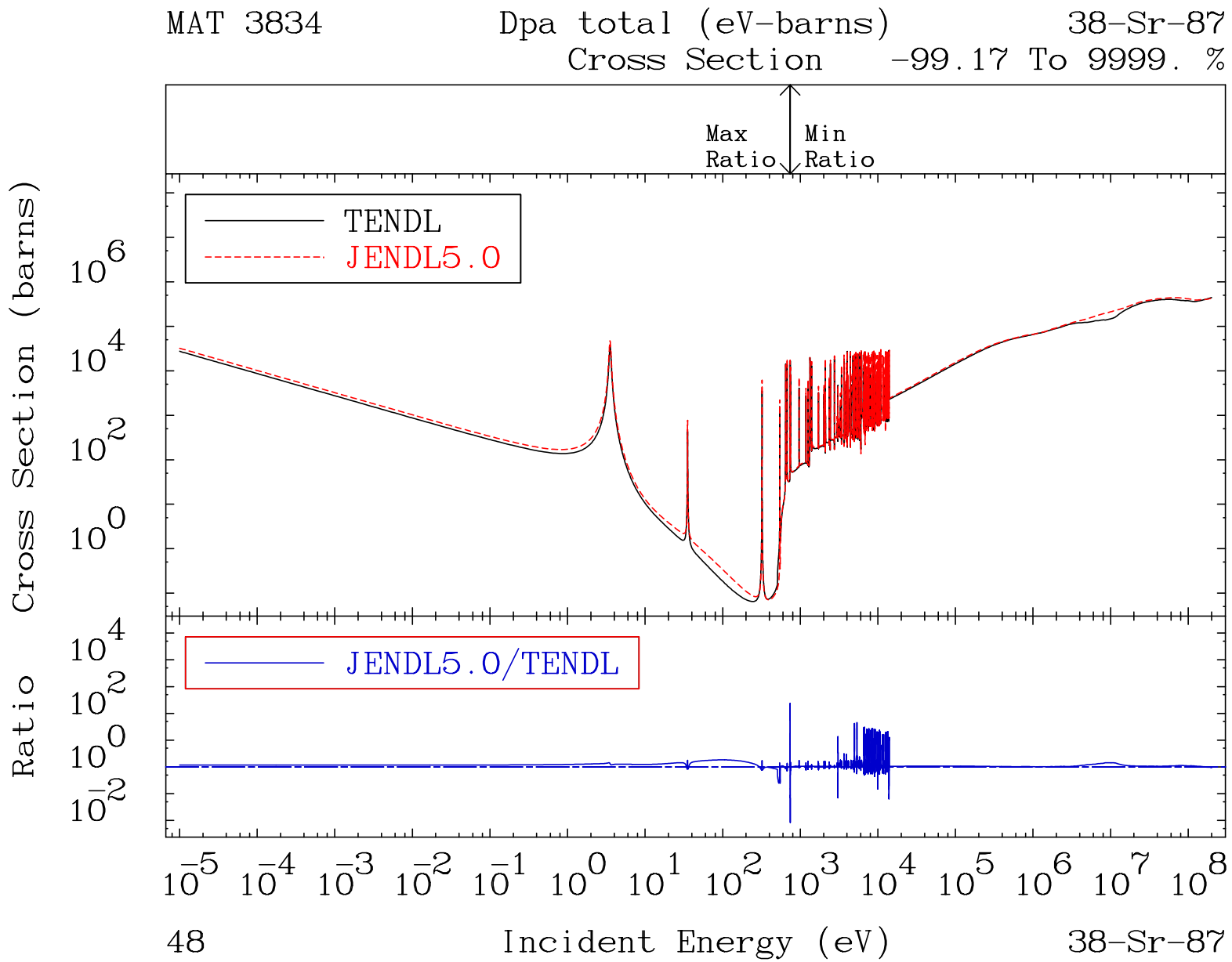

MAT 3834
Kerma inelastic (mt51-91)
38-Sr-87
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 393.04 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
38-Sr-87

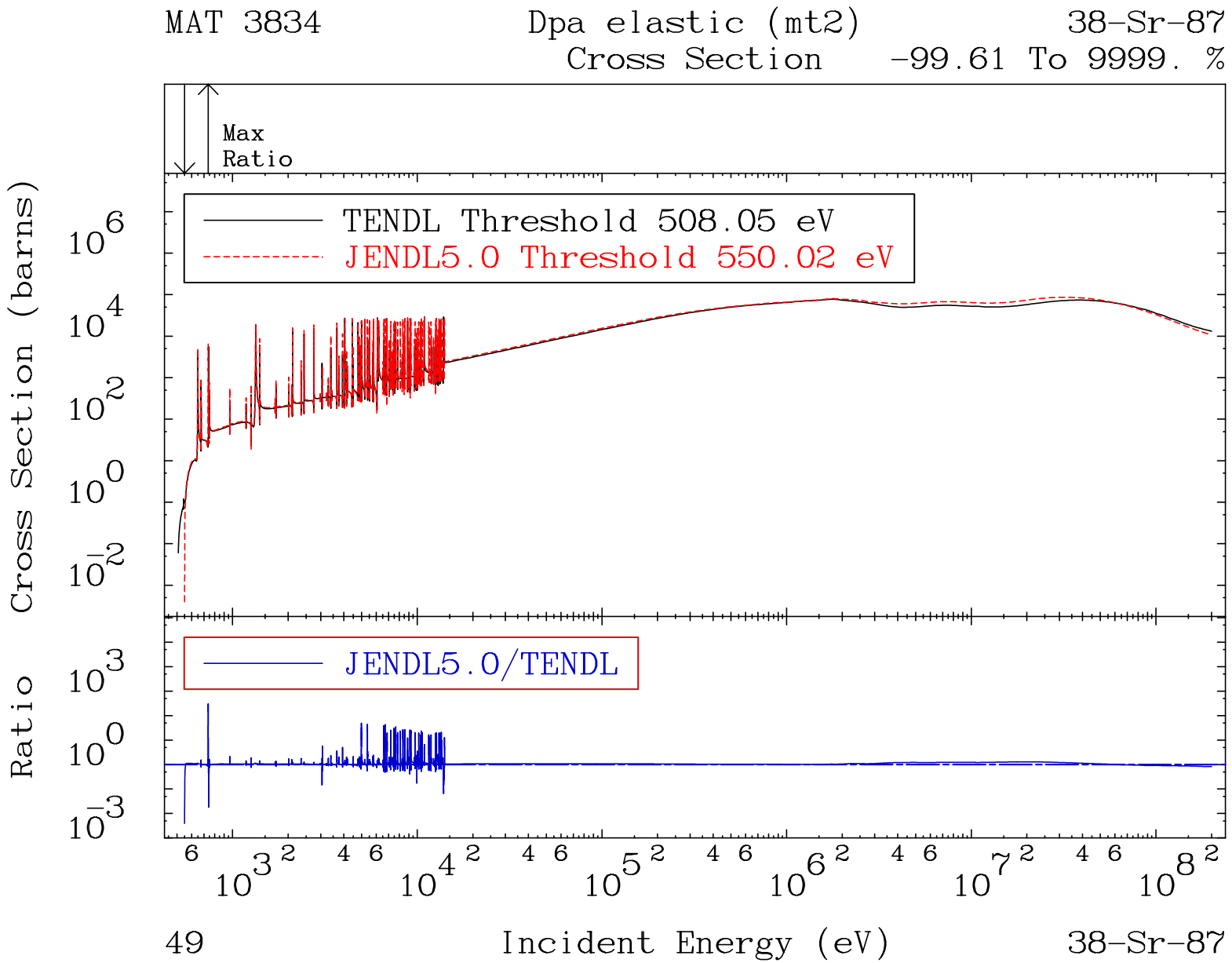

MAT 3834 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-87
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0.0
-1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
44
Incident Energy (eV)
38-Sr-87

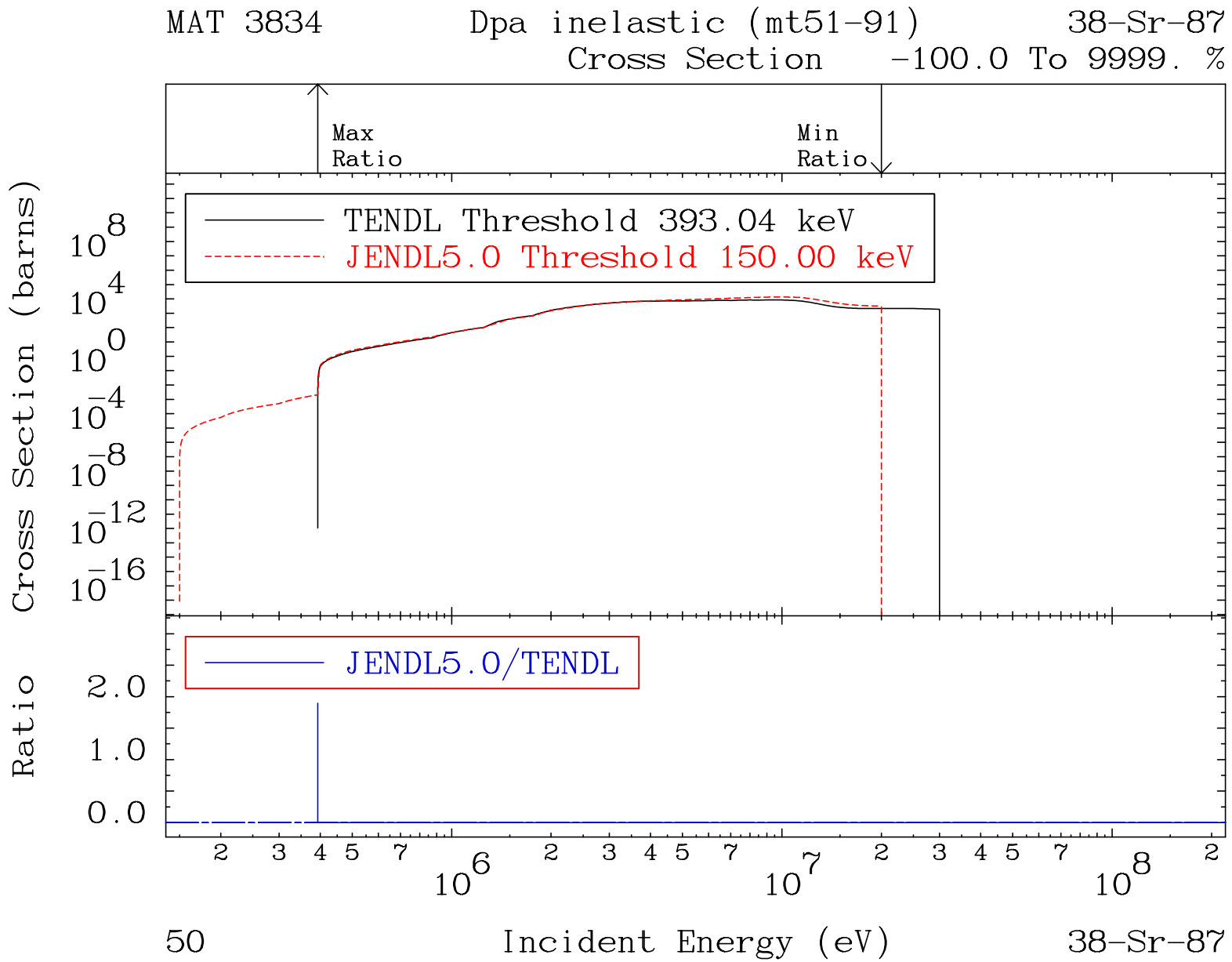

MAT 3834
Kerma capture (mt102)
38-Sr-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
38-Sr-87

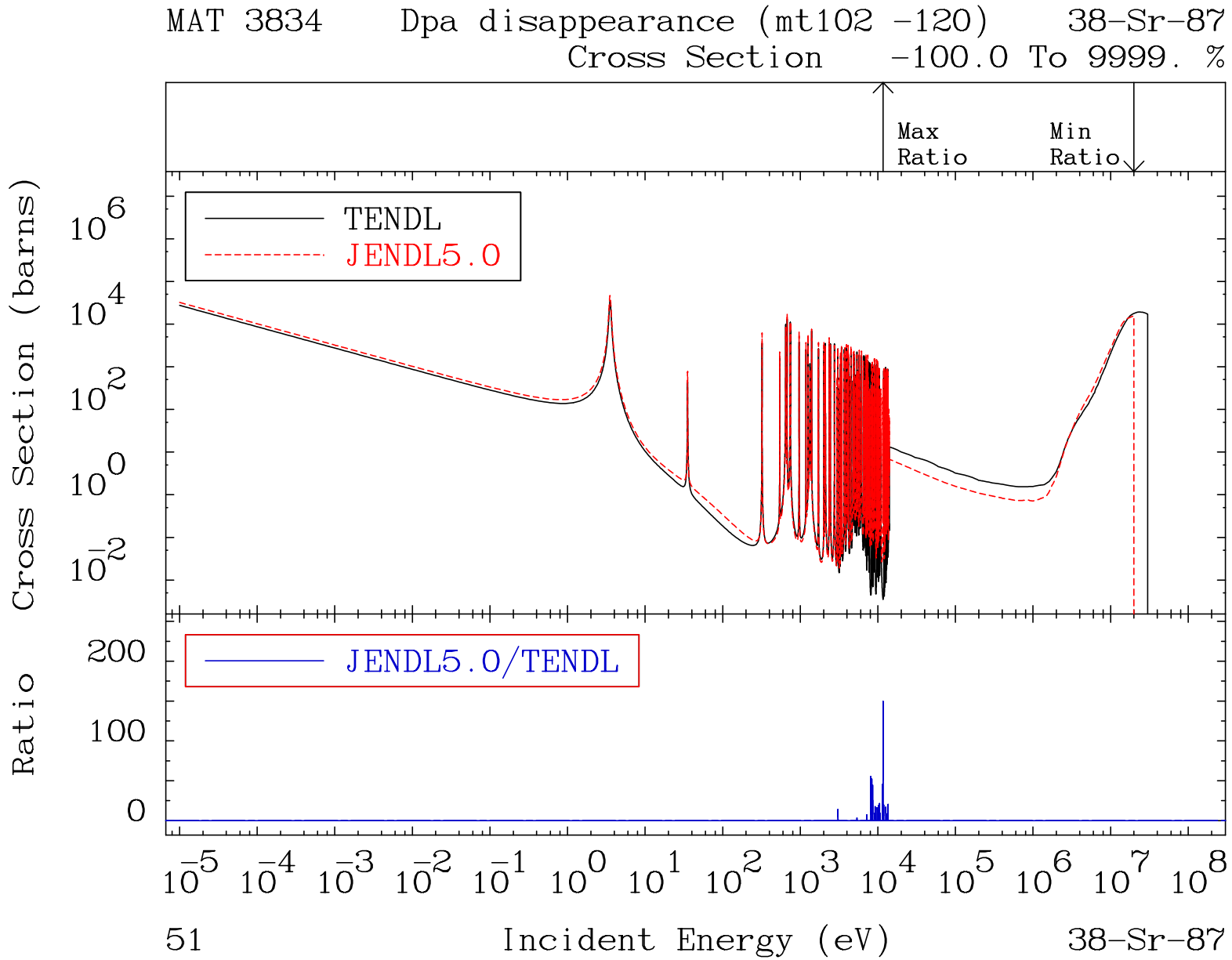

MAT 3834
Total photon (eV-barns)
38-Sr-87
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^10
10^8
10^6
10^4
JENDL5.0/TENDL
Ratio
10^5
10^0
10^-5
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
46
Incident Energy (eV)
38-Sr-87

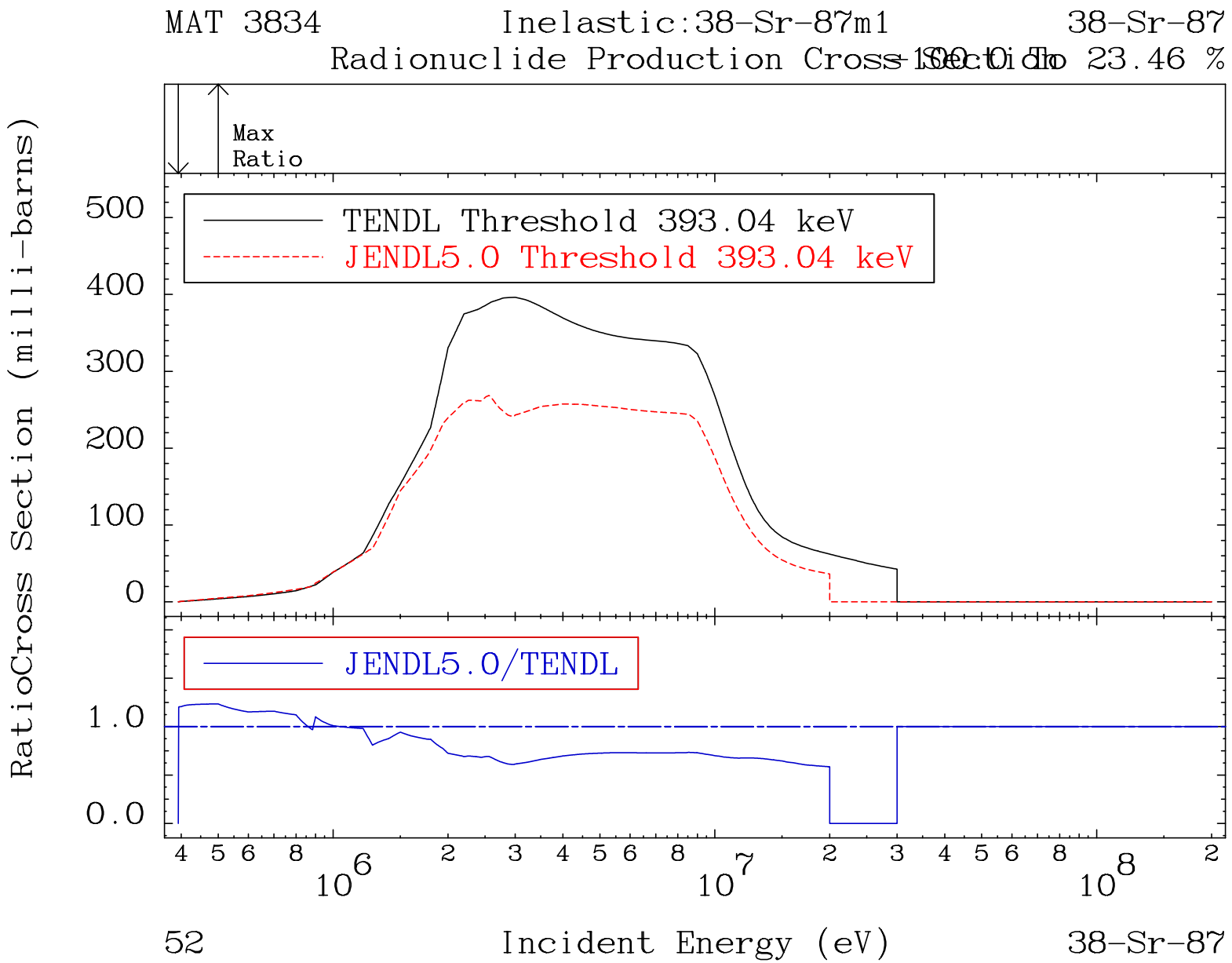

MAT 3834 Total kinematic kerma (high limit) 38-Sr-87
Cross Section -98.94 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
38-Sr-87

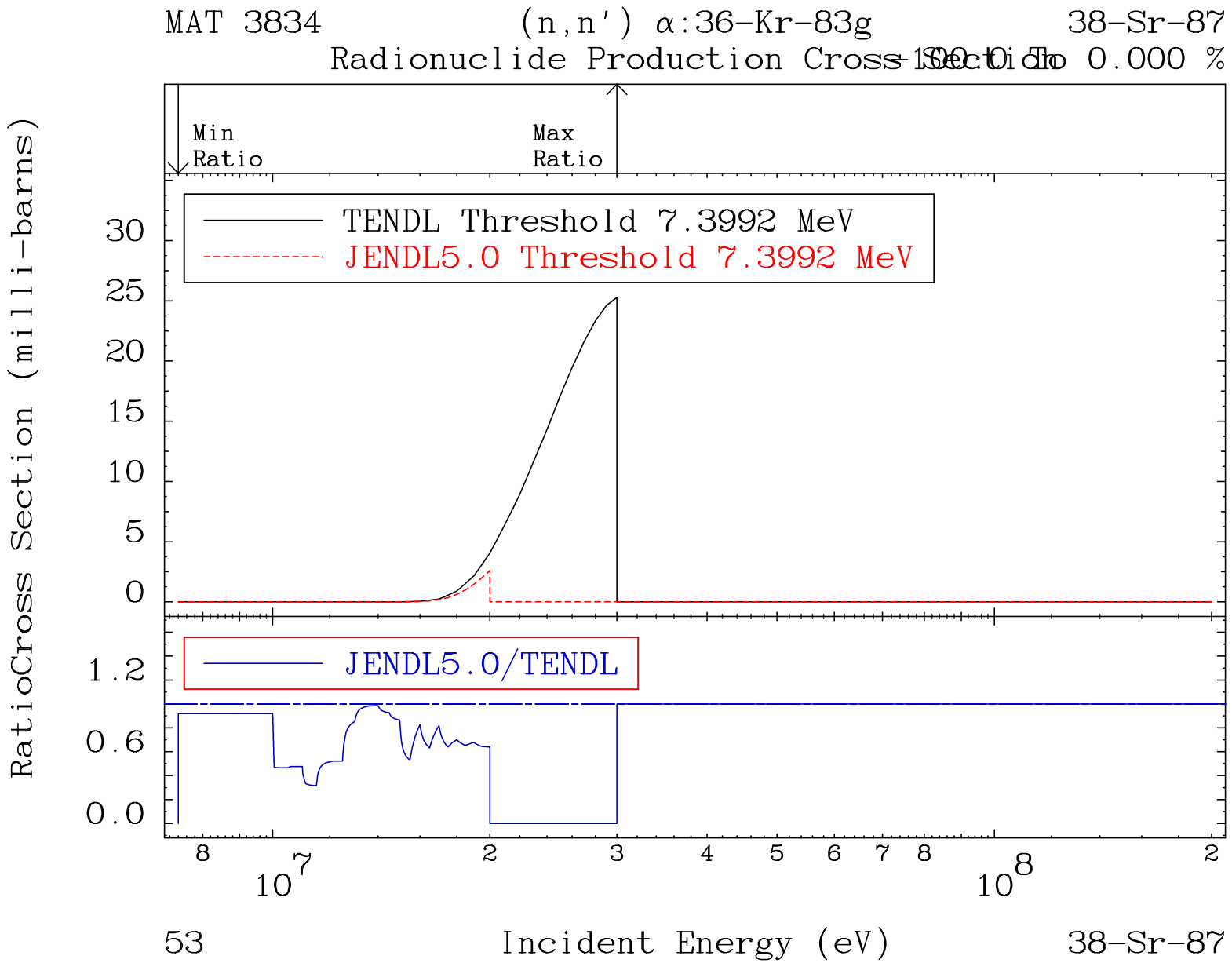

MAT 3834
Dpa total (eV-barns)
38-Sr-87
Cross Section
-99.17 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
48
38-Sr-87

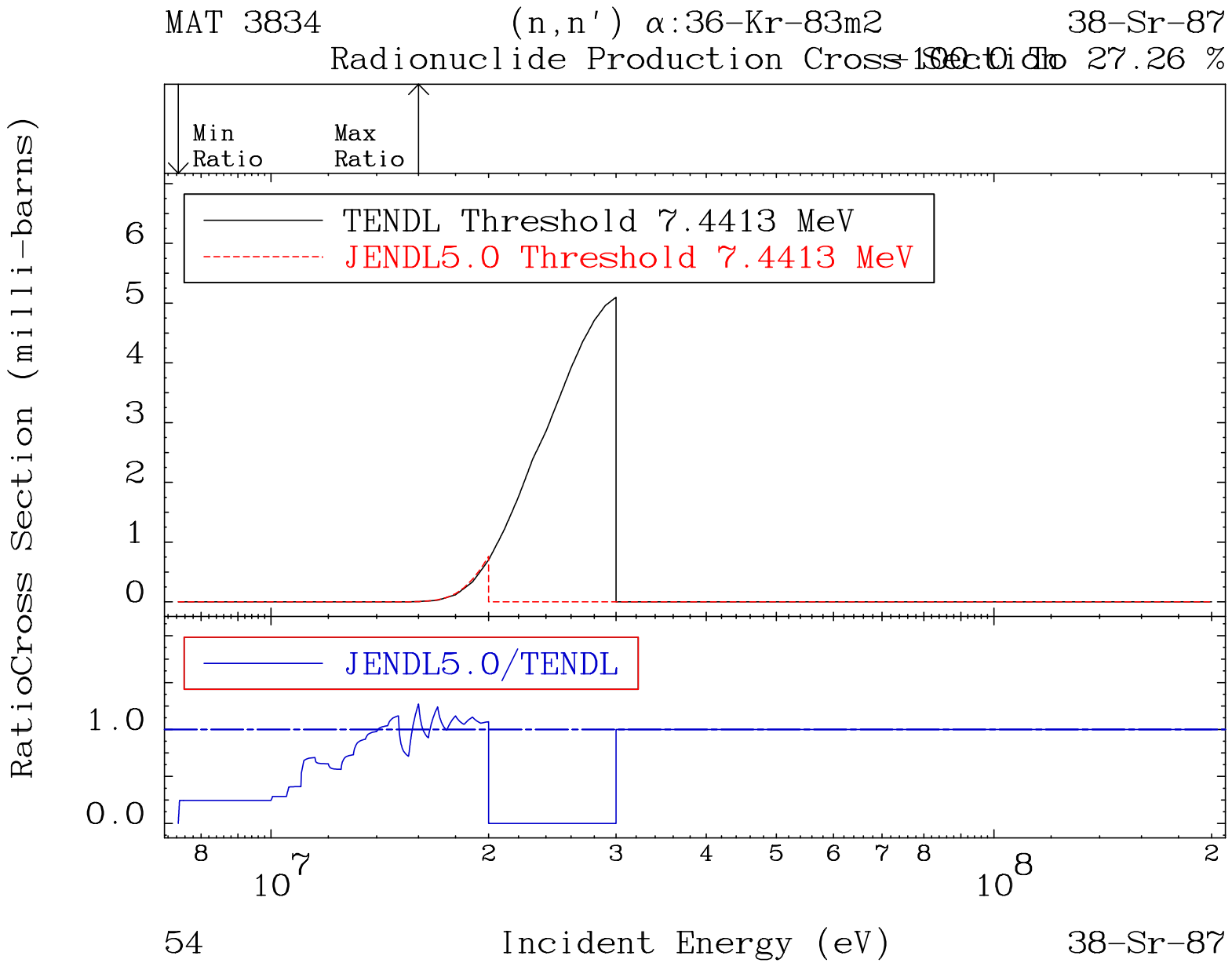

MAT 3834
Dpa elastic (mt2)
Cross Section
38-Sr-87
-99.61 To 9999. %
Max
Ratio
TENDL Threshold 508.05 eV
JENDL5.0 Threshold 550.02 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
38-Sr-87

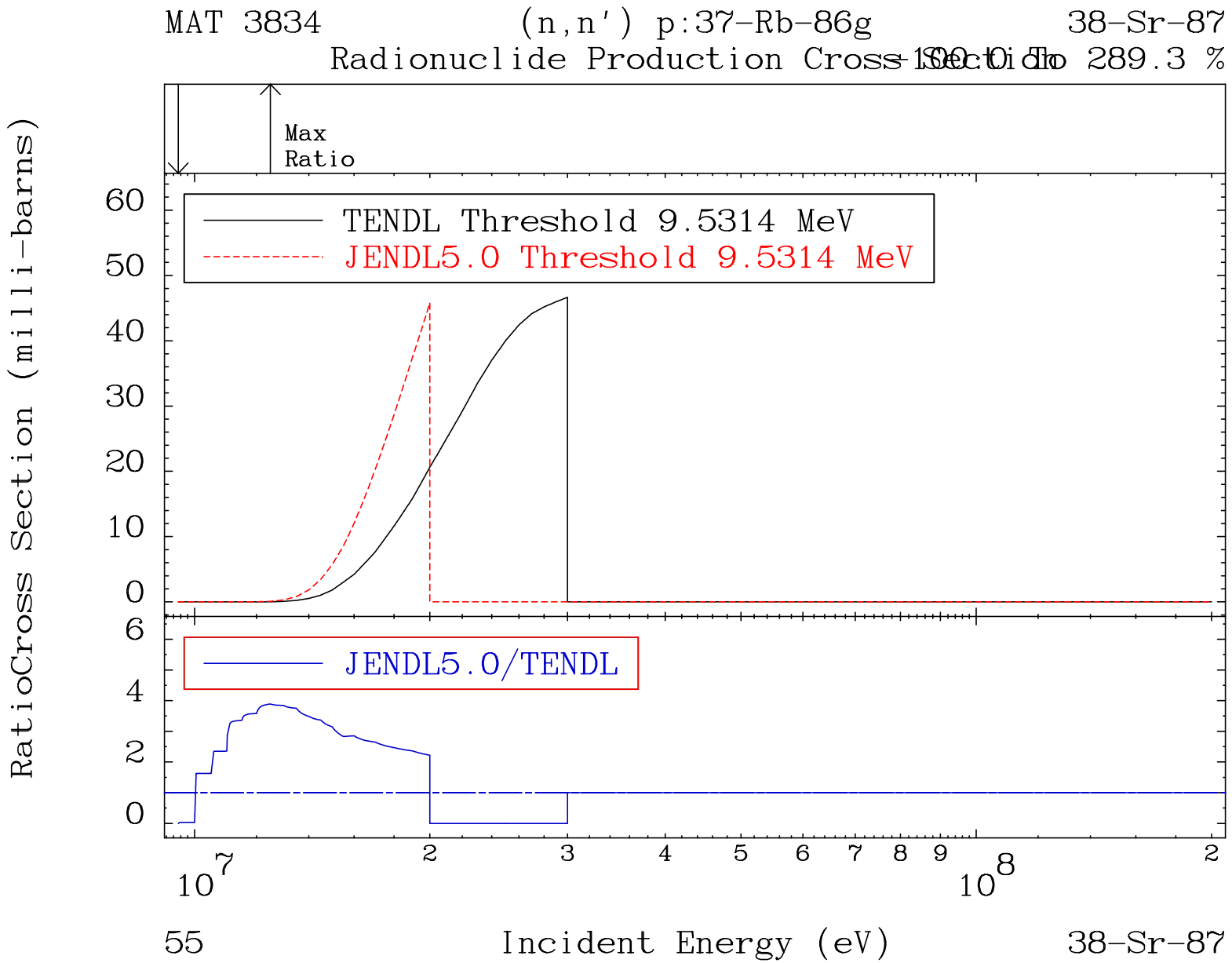

MAT 3834
Dpa inelastic (mt51-91)
38-Sr-87
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 393.04 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
38-Sr-87

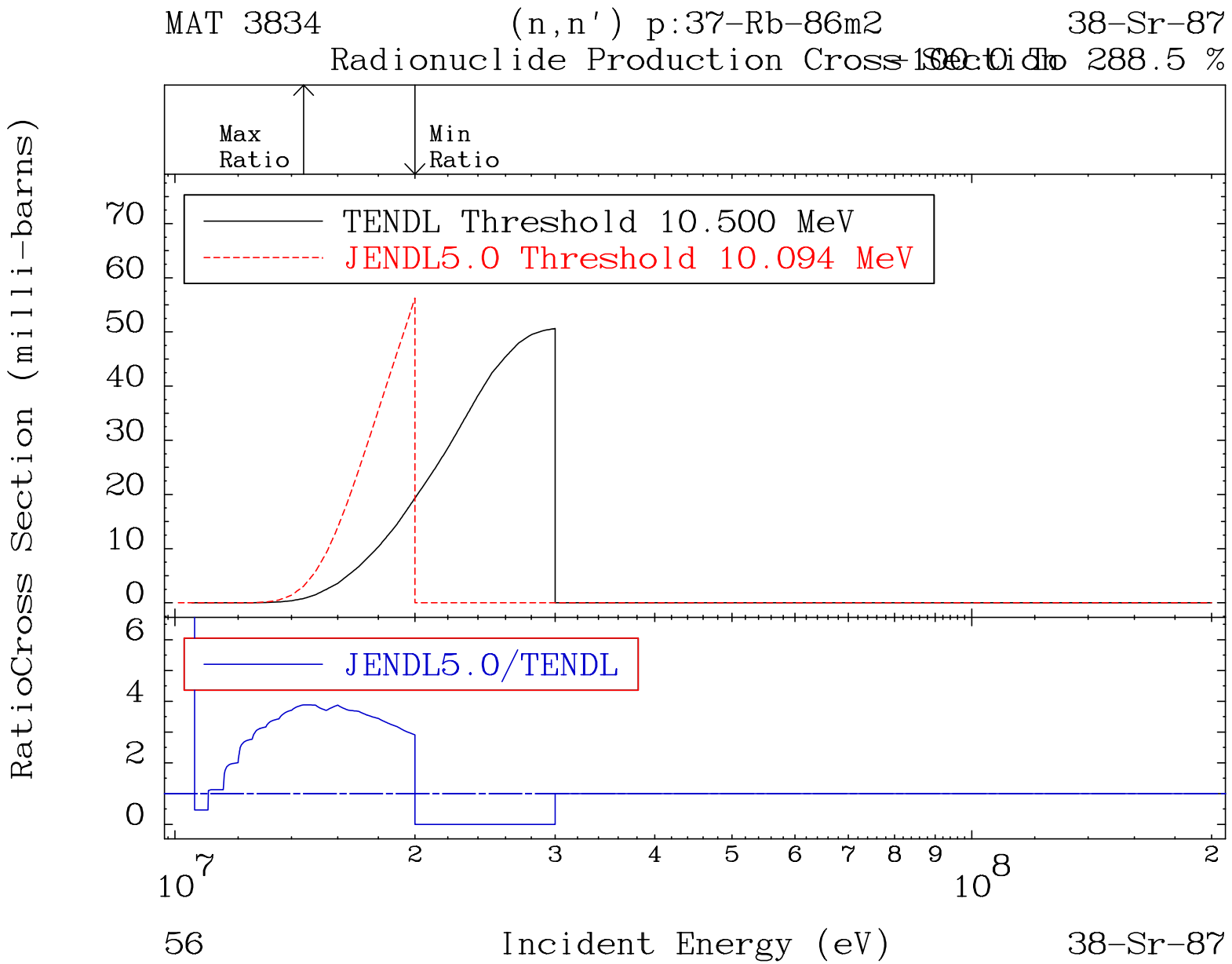

MAT 3834 Dpa disappearance (mt102 -120) 38-Sr-87
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
38-Sr-87

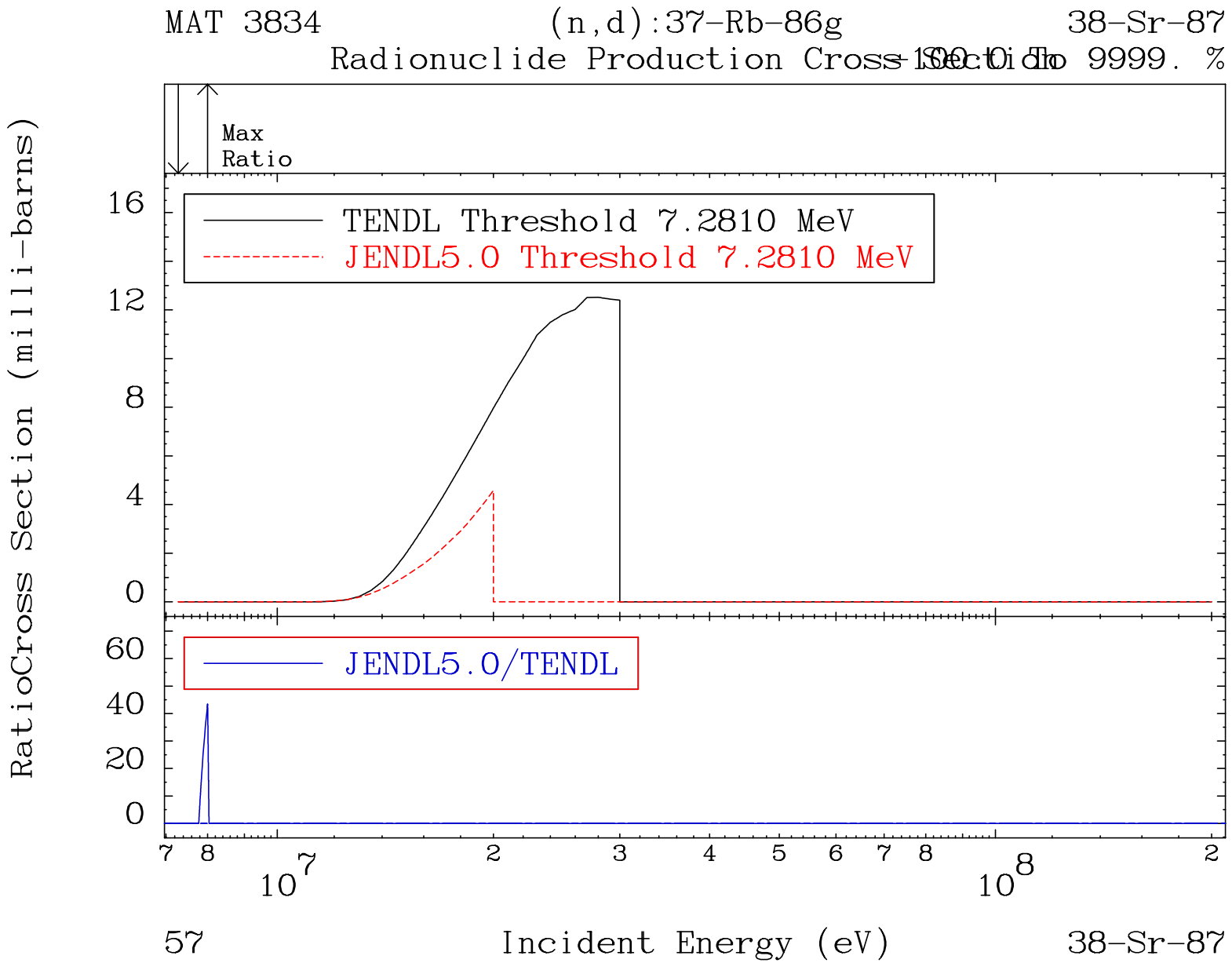

MAT 3834
Inelastic:38-Sr-87m1
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 393.04 keV
JENDL5.0 Threshold 393.04 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
52
Incident Energy (eV)
38-Sr-87

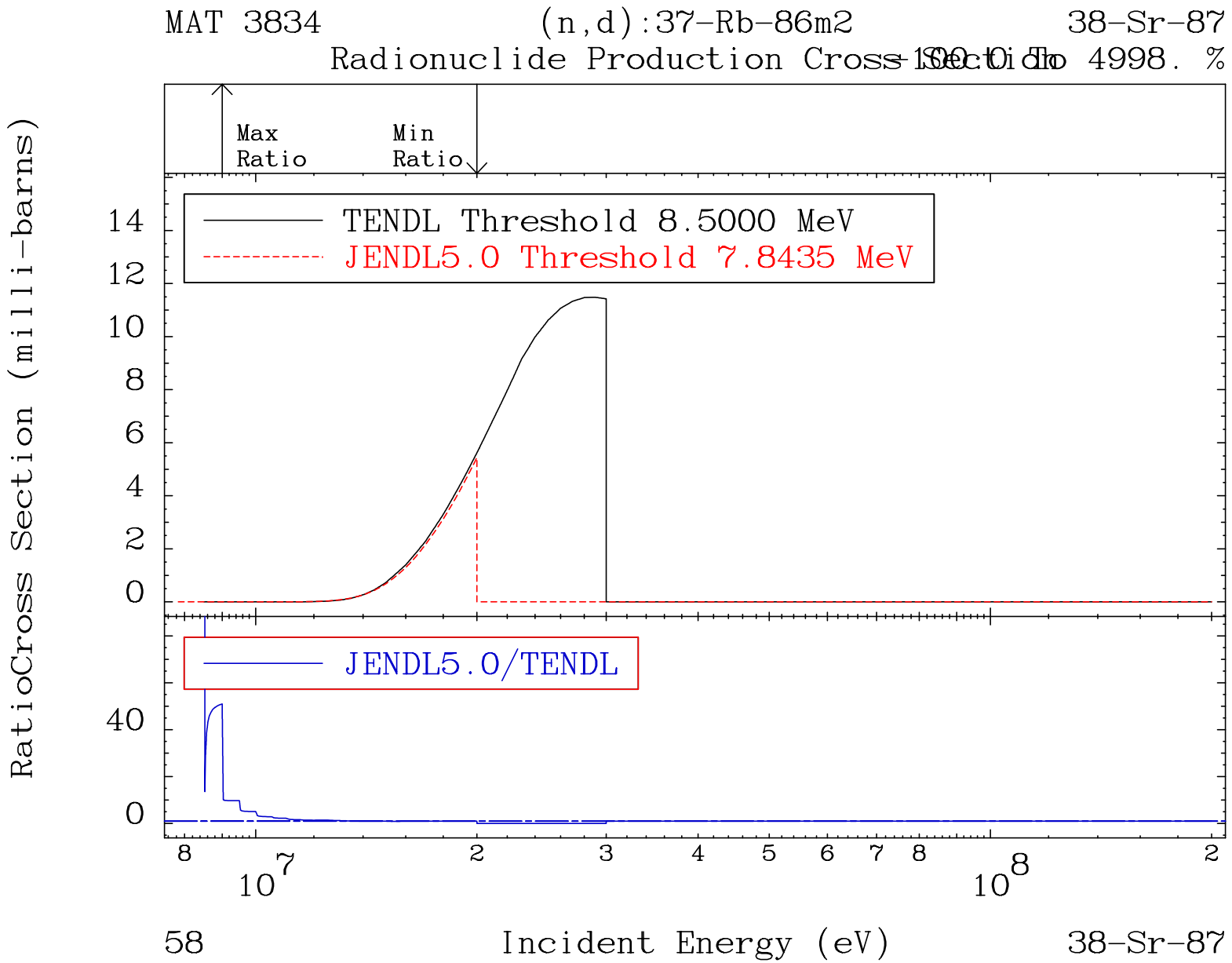

MAT 3834
(n,n') α:36-Kr-83g
38-Sr-87
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.3992 MeV
JENDL5.0 Threshold 7.3992 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
53
Incident Energy (eV)
38-Sr-87

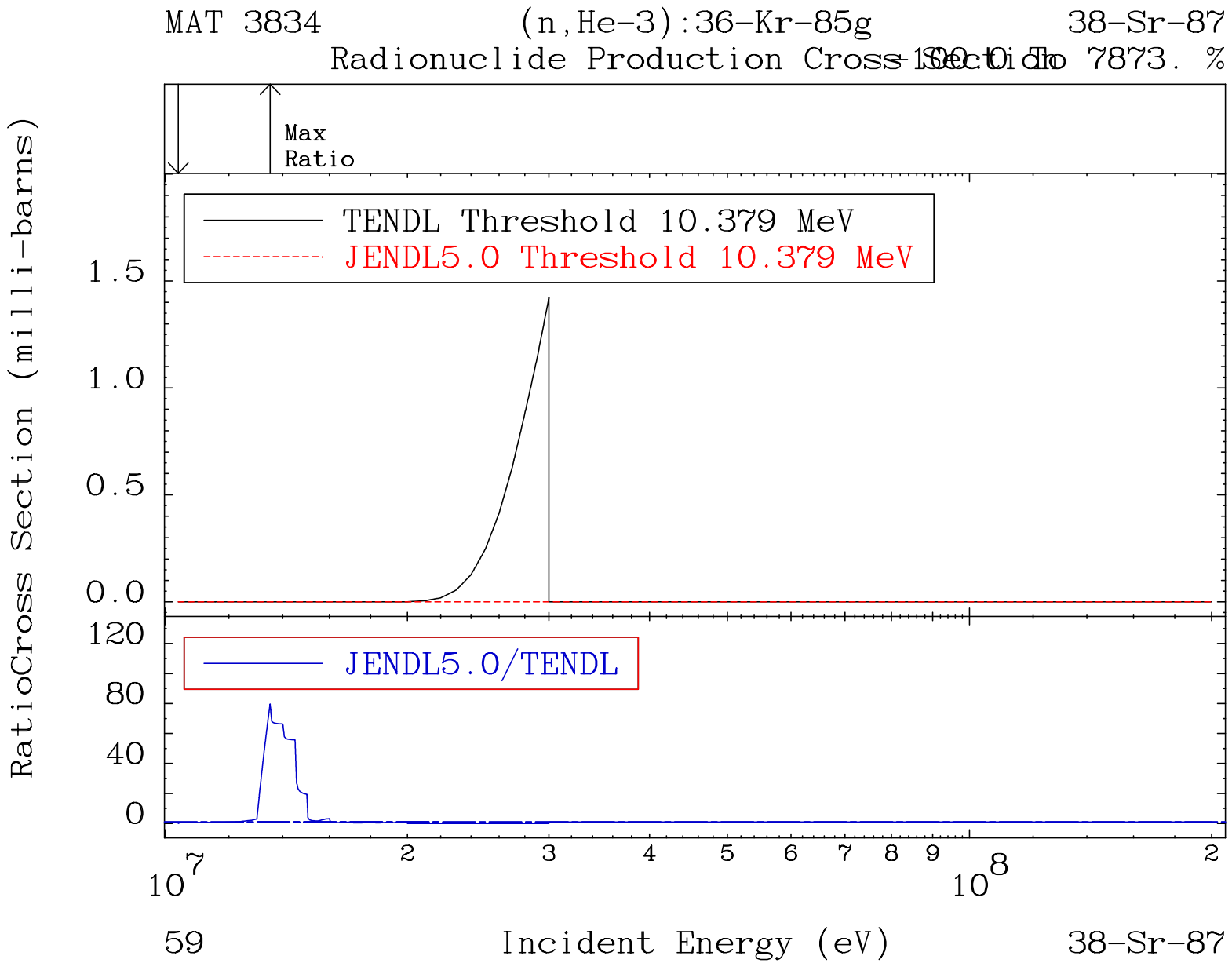

MAT 3834
(n,n') α:36-Kr-83m2
38-Sr-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.4413 MeV
JENDL5.0 Threshold 7.4413 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
38-Sr-87

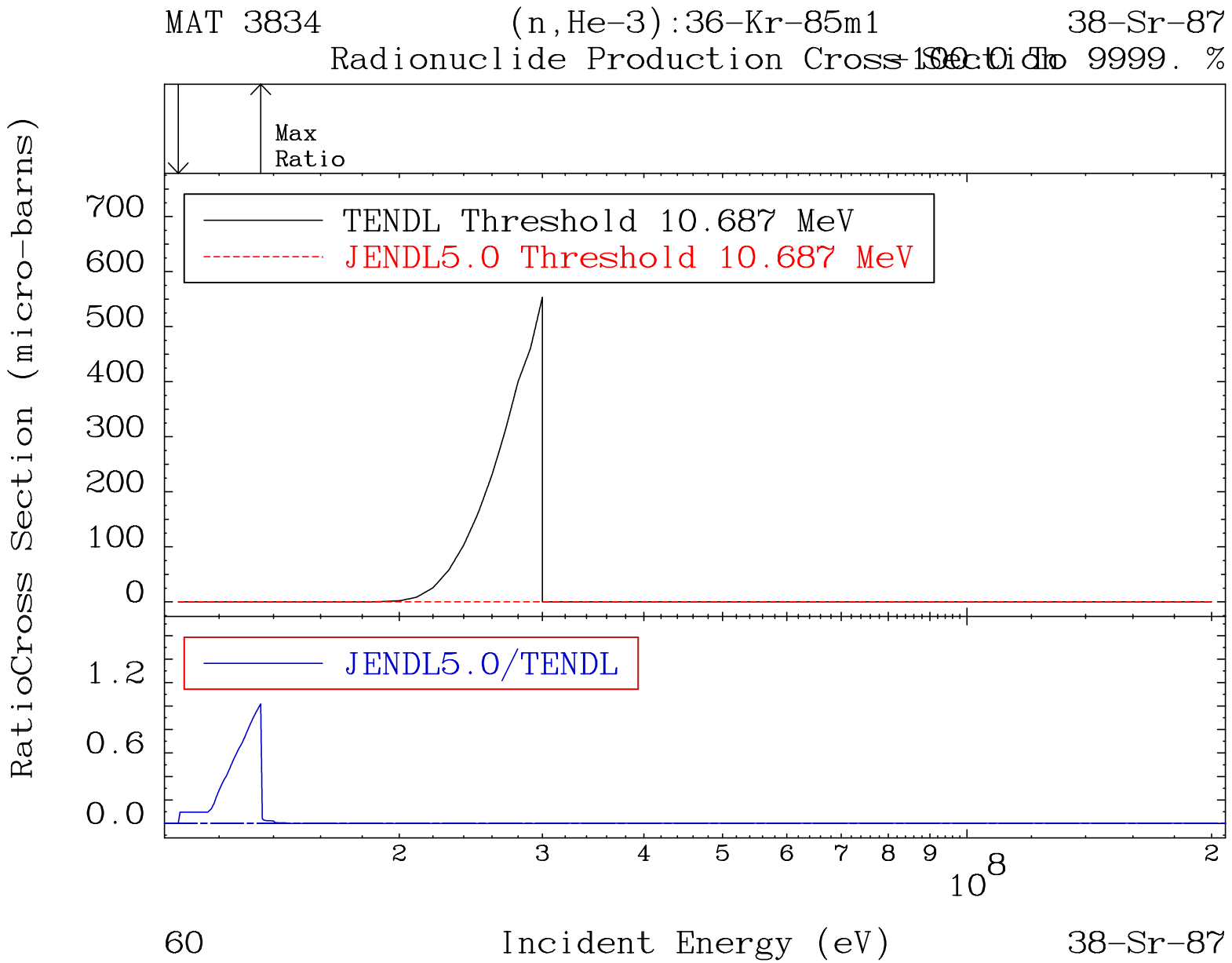

MAT 3834
(n,n') p:37-Rb-86g
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 9.5314 MeV
JENDL5.0 Threshold 9.5314 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
55
38-Sr-87

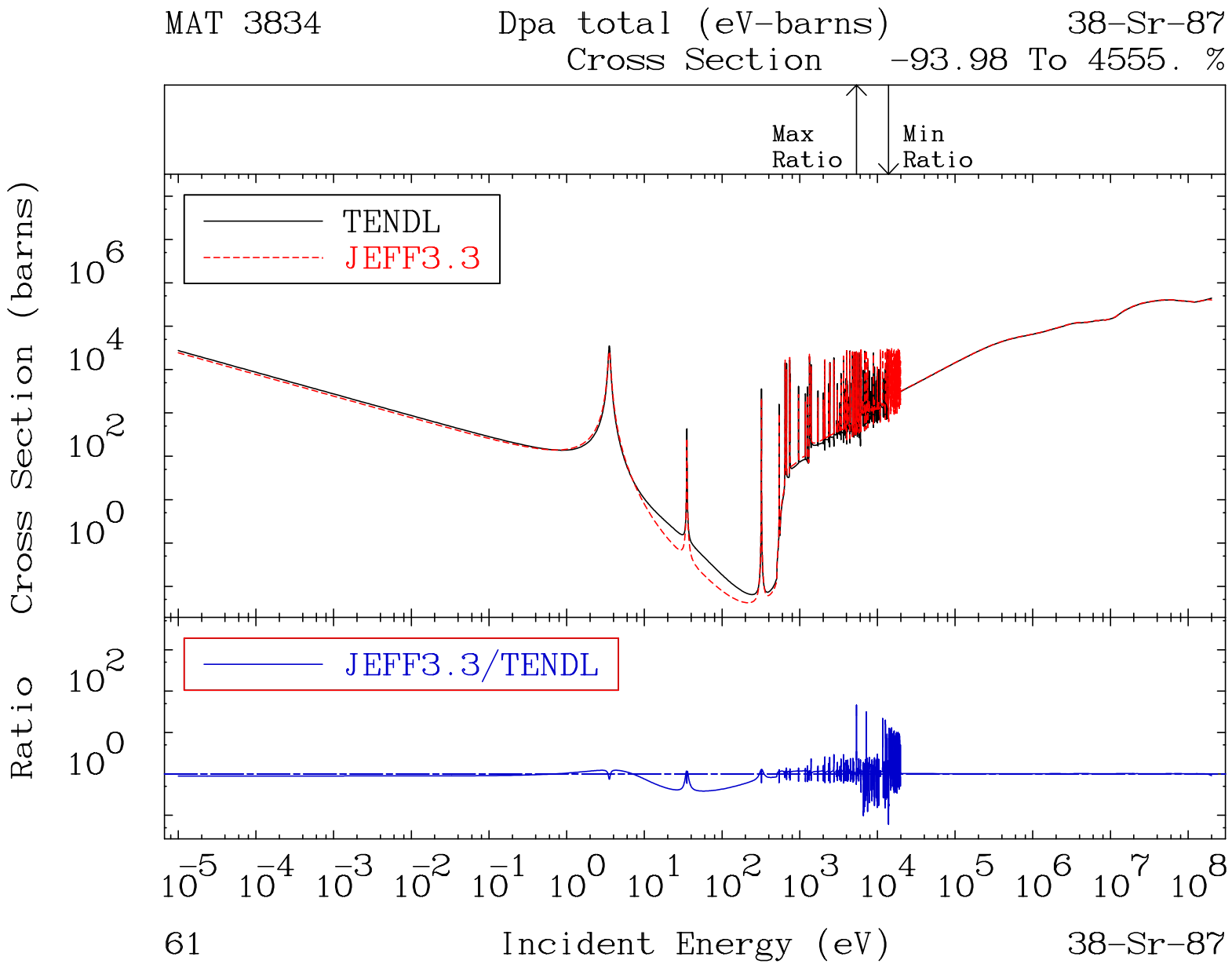

MAT 3834
(n,n') p:37-Rb-86m2
38-Sr-87
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
JENDL5.0 Threshold 10.094 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
56
38-Sr-87

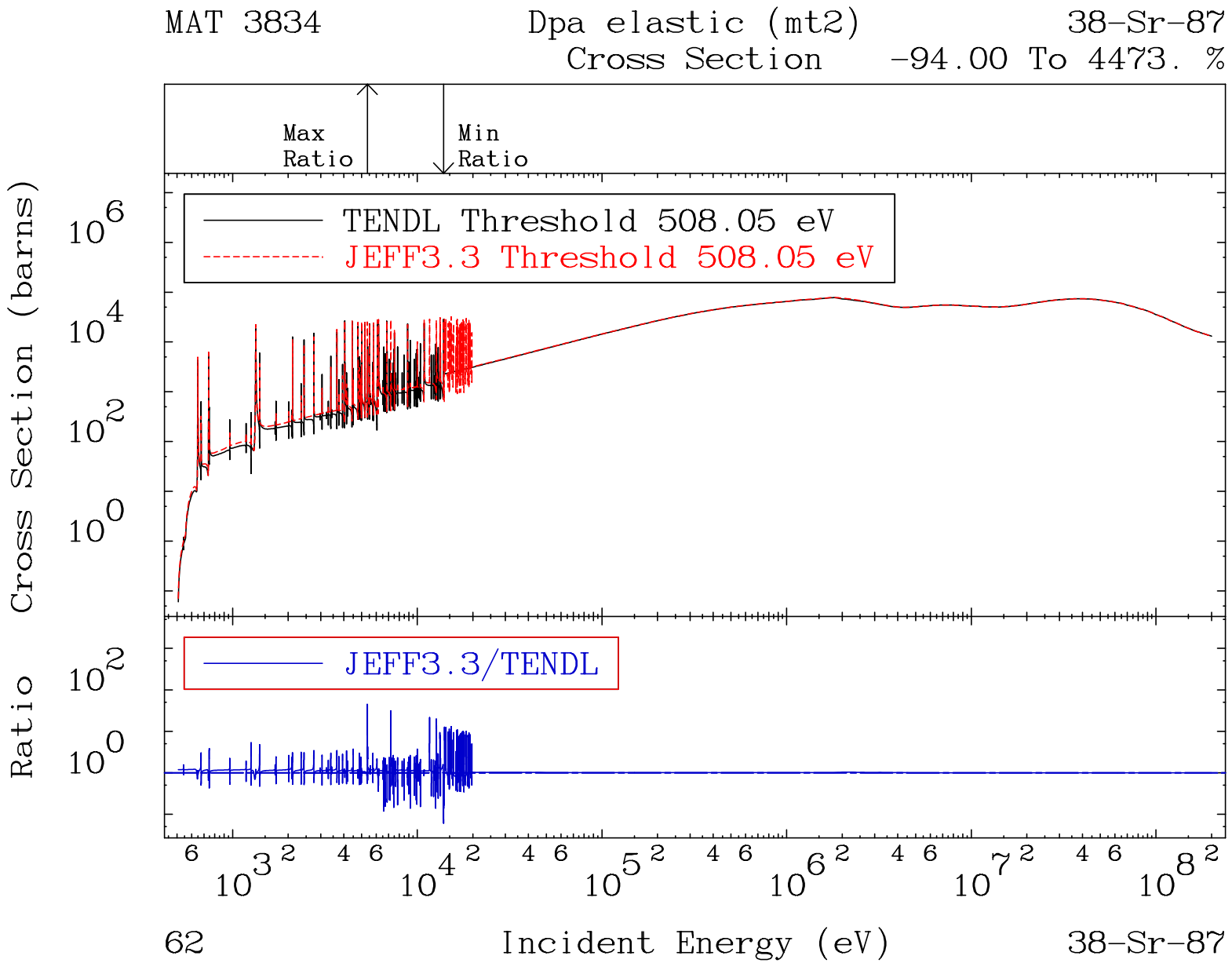

MAT 3834
(n,d):37-Rb-86g
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.2810 MeV
JENDL5.0 Threshold 7.2810 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
57
38-Sr-87

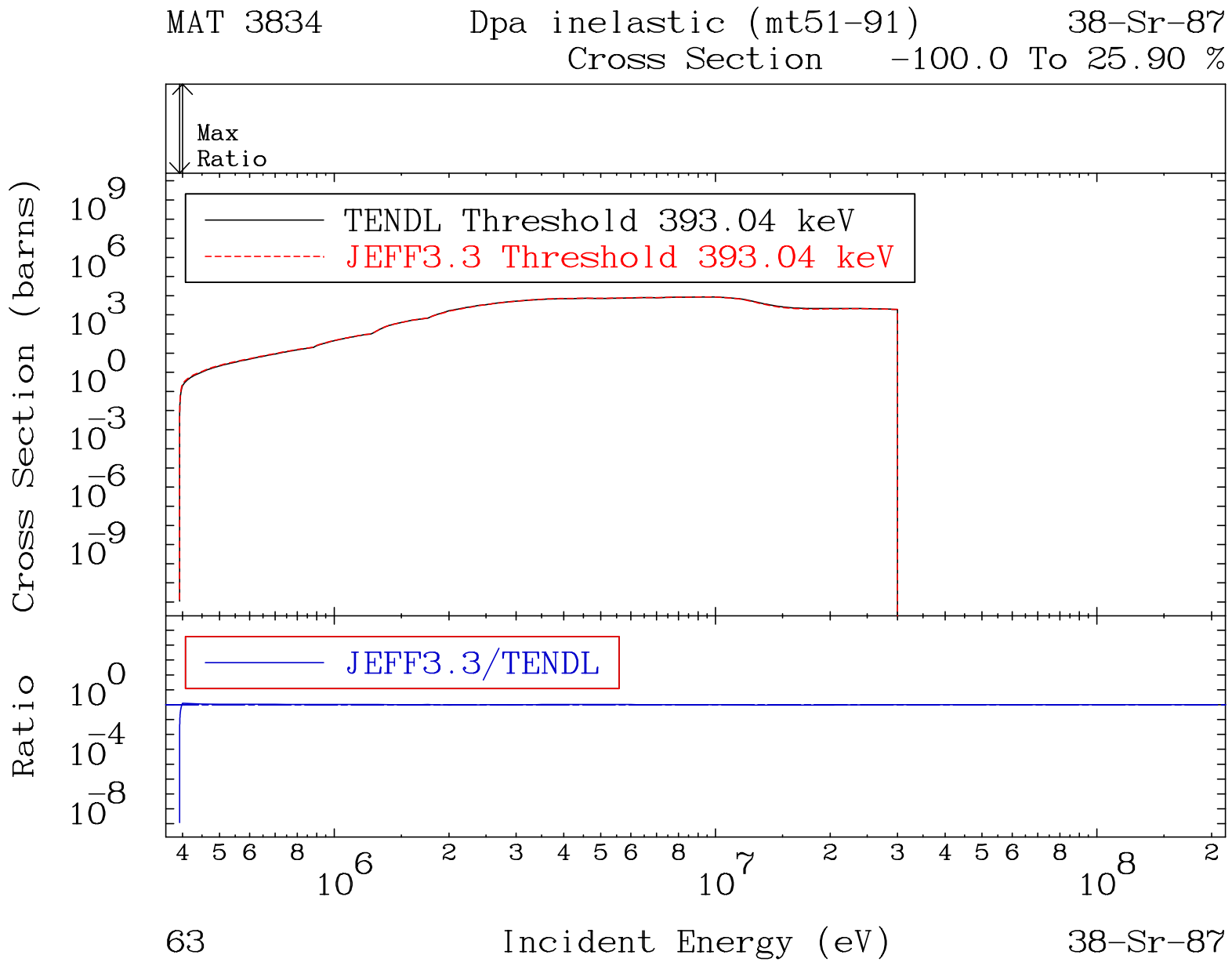

MAT 3834
(n,d):37-Rb-86m2
38-Sr-87
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 8.5000 MeV
JENDL5.0 Threshold 7.8435 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
58
38-Sr-87

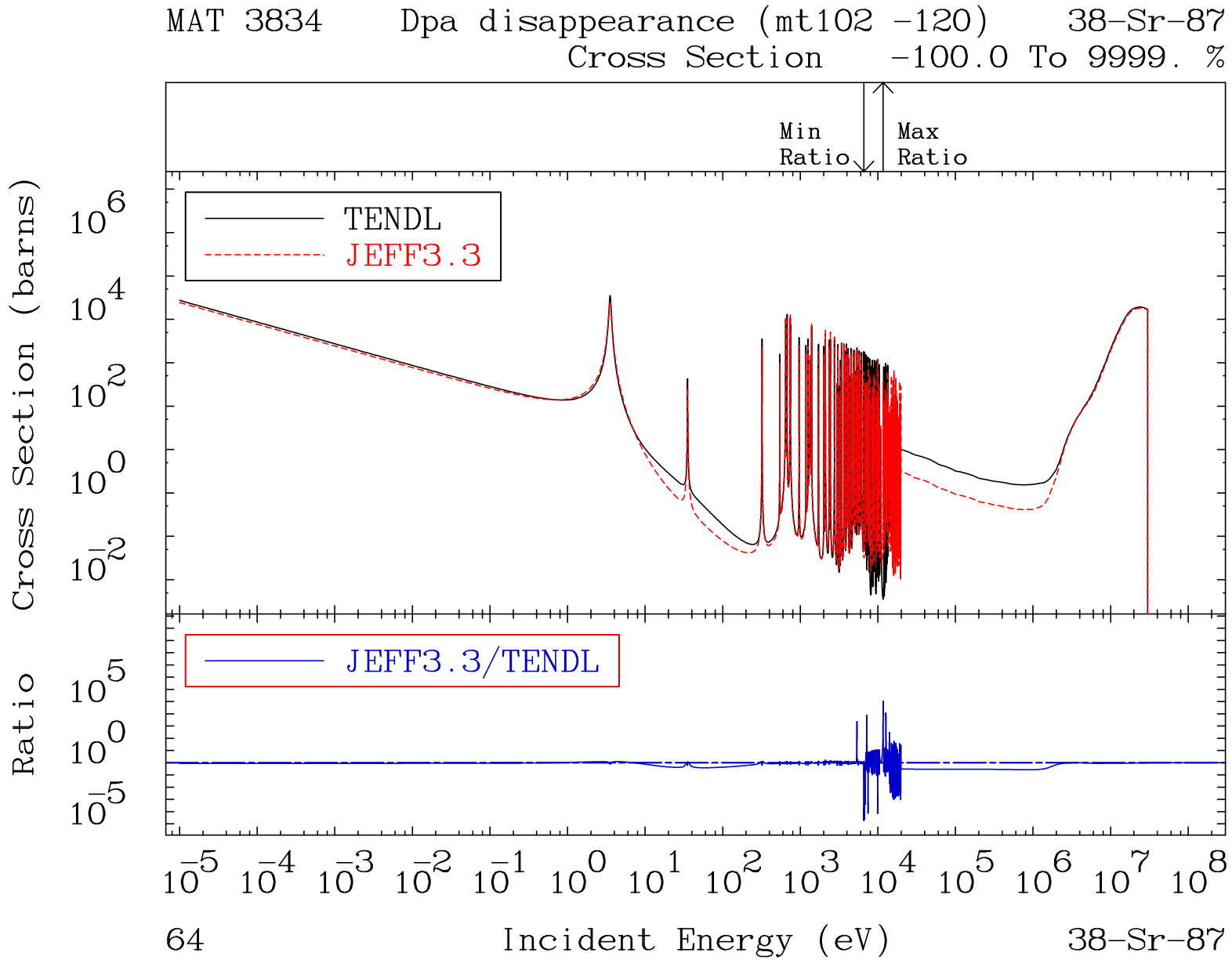

MAT 3834
(n,He-3):36-Kr-85g
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 10.379 MeV
JENDL5.0 Threshold 10.379 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.5
1.0
0.5
0.0
120
80
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
38-Sr-87

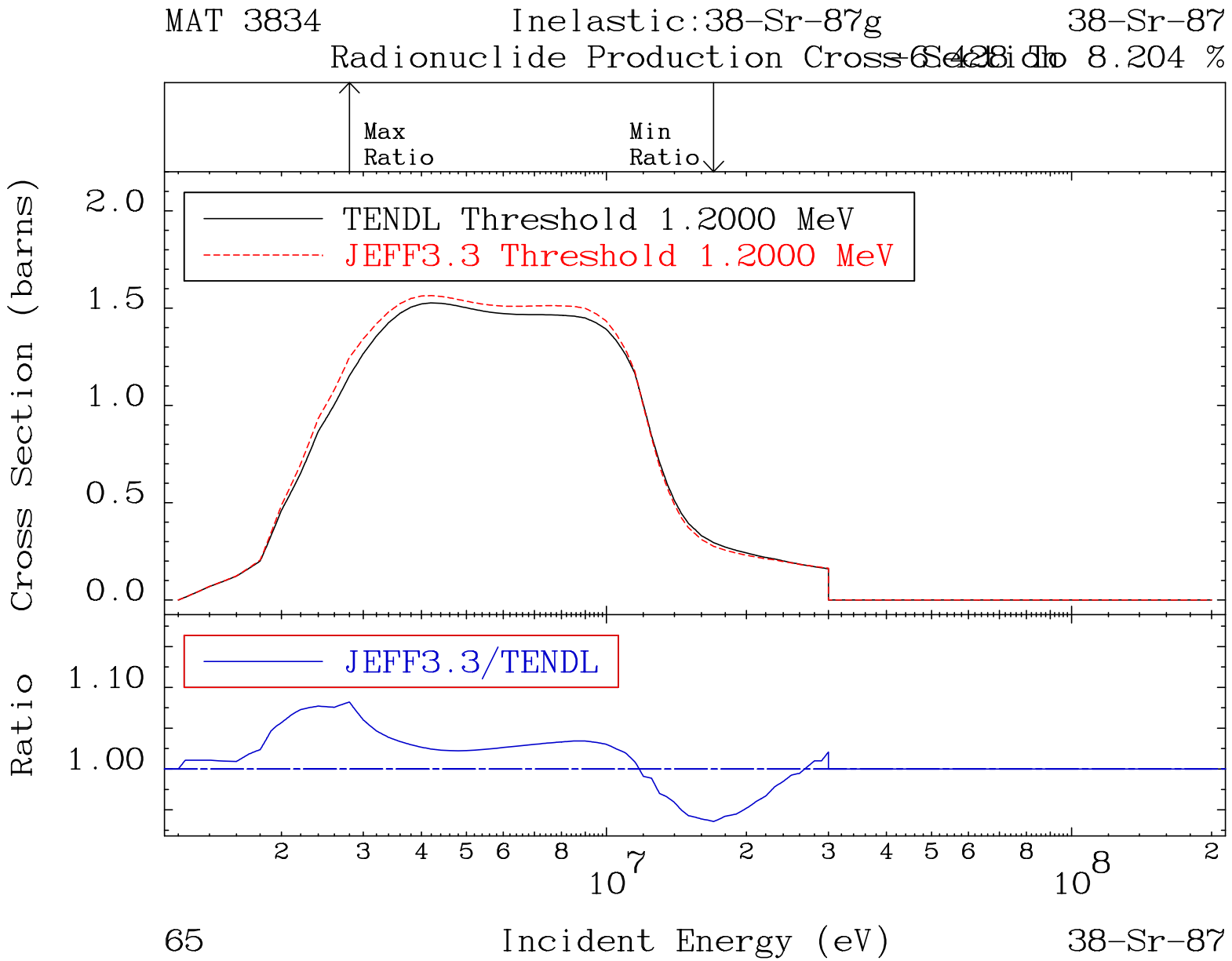

MAT 3834
(n,He-3):36-Kr-85m1
38-Sr-87
Radionuclide Production Cross Section
1.00 To 9999. %
Max
Ratio
700
600
500
400
300
200
100
0
TENDL Threshold 10.687 MeV
JENDL5.0 Threshold 10.687 MeV
1.2
0.6
0.0
JENDL5.0/TENDL
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (micro-barns)
60
Incident Energy (eV)
38-Sr-87

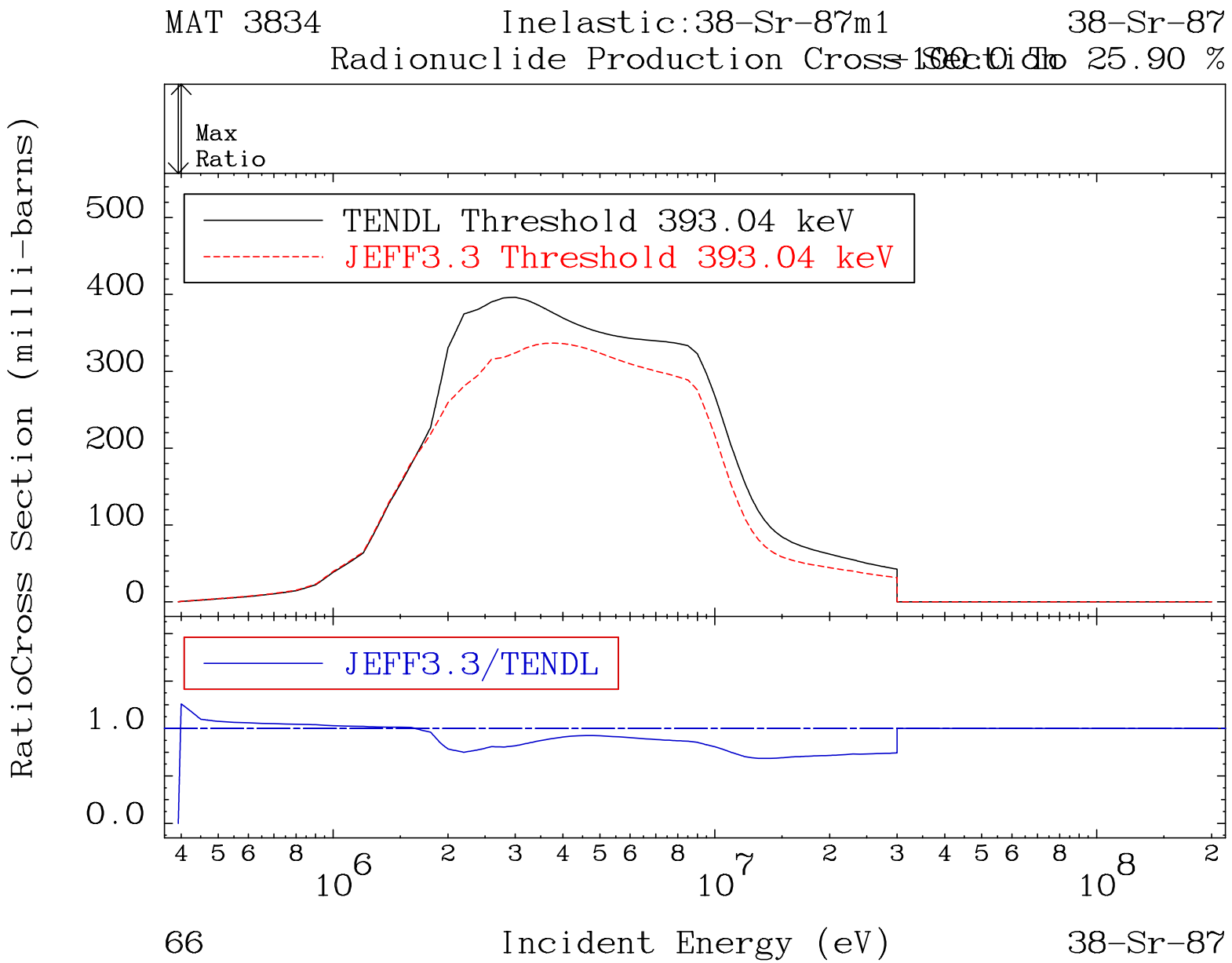

MAT 3834
Dpa total (eV-barns)
38-Sr-87
Cross Section
-93.98 To 4555. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
38-Sr-87

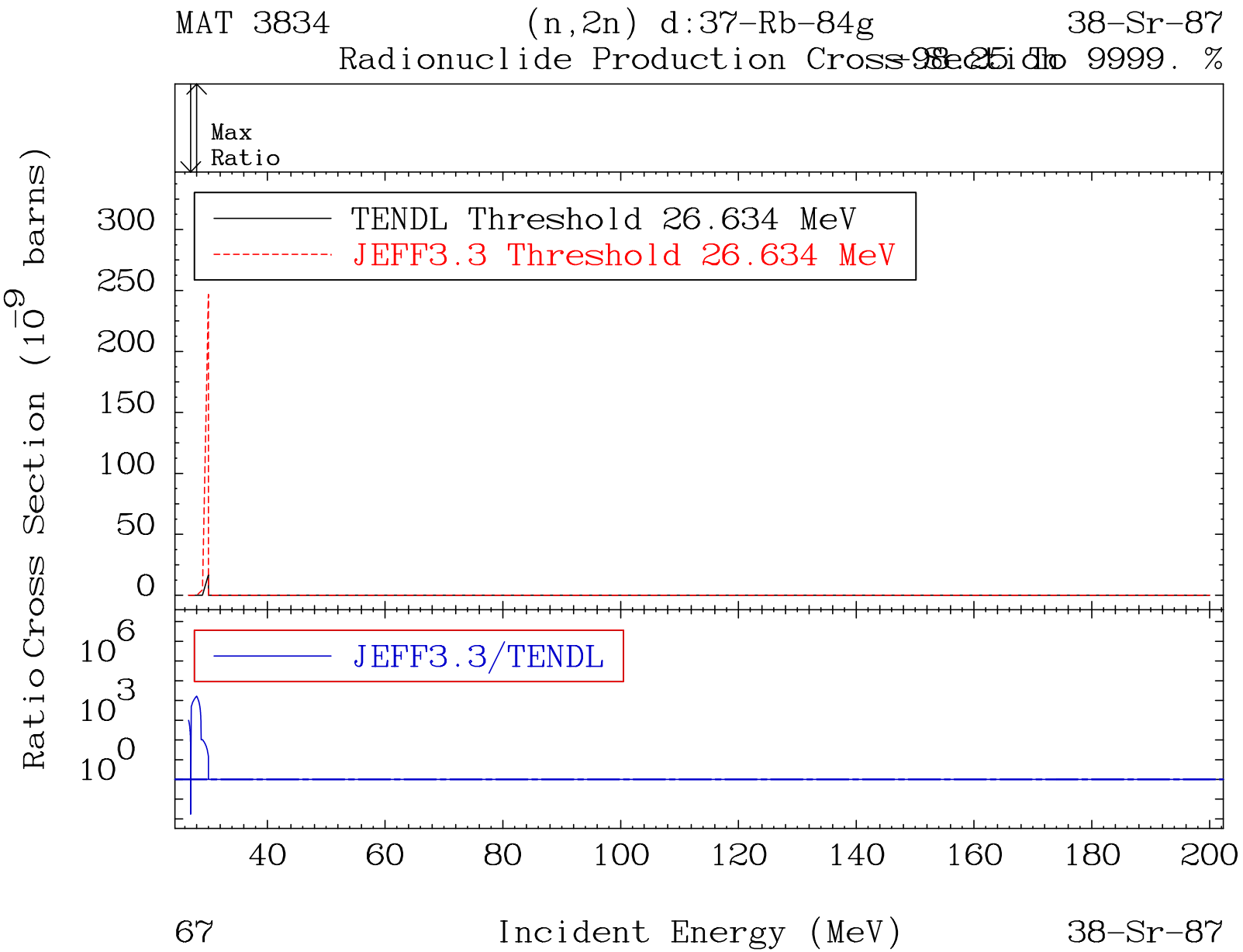

MAT 3834
Dpa elastic (mt2)
Cross Section
38-Sr-87
-94.00 To 4473. %
Max Ratio
Min Ratio
TENDL Threshold 508.05 eV
JEFF3.3 Threshold 508.05 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
38-Sr-87

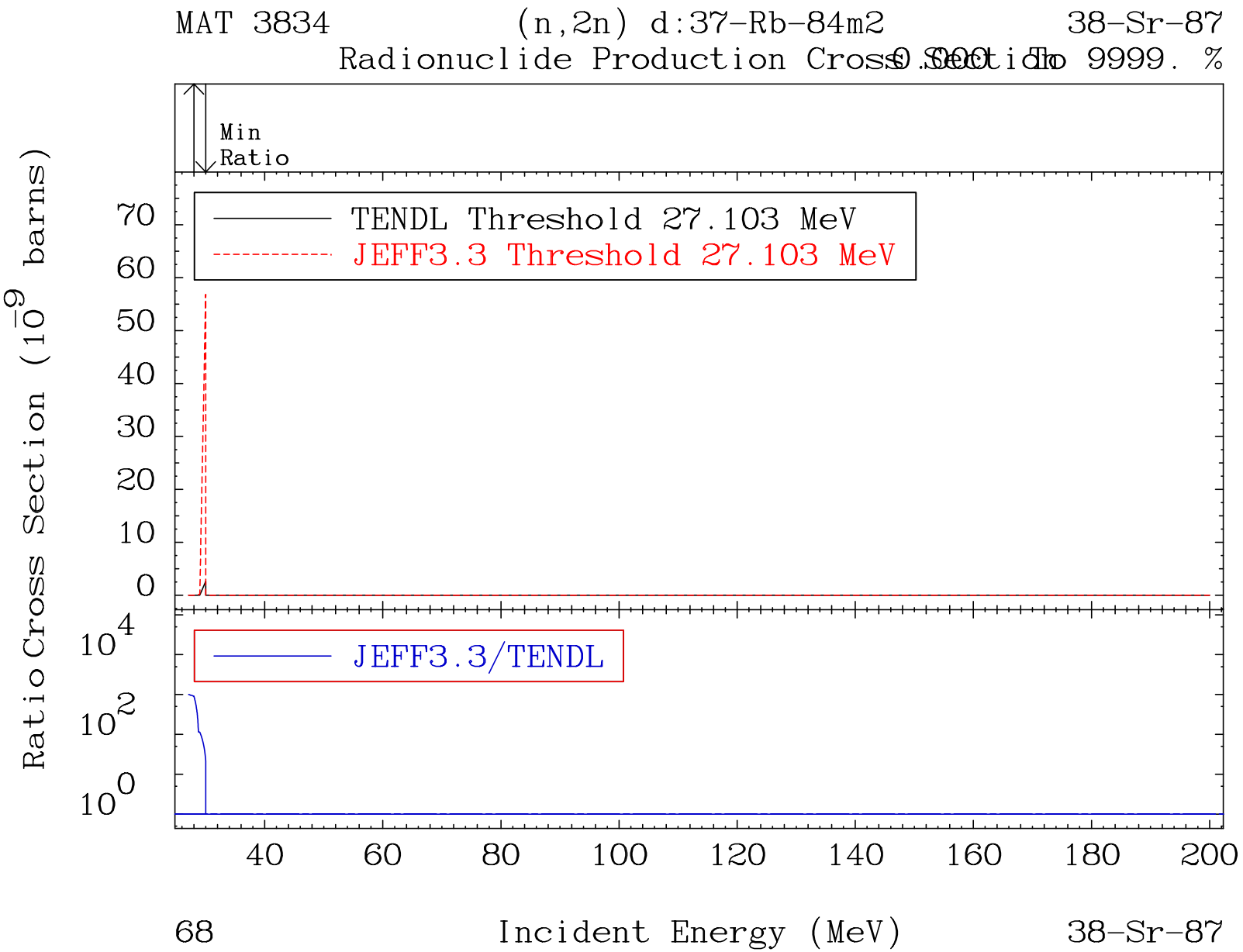

MAT 3834
Dpa inelastic (mt51-91)
38-Sr-87
Cross Section -100.0 To 25.90 %
Max
Ratio
TENDL Threshold 393.04 keV
JEFF3.3 Threshold 393.04 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
38-Sr-87

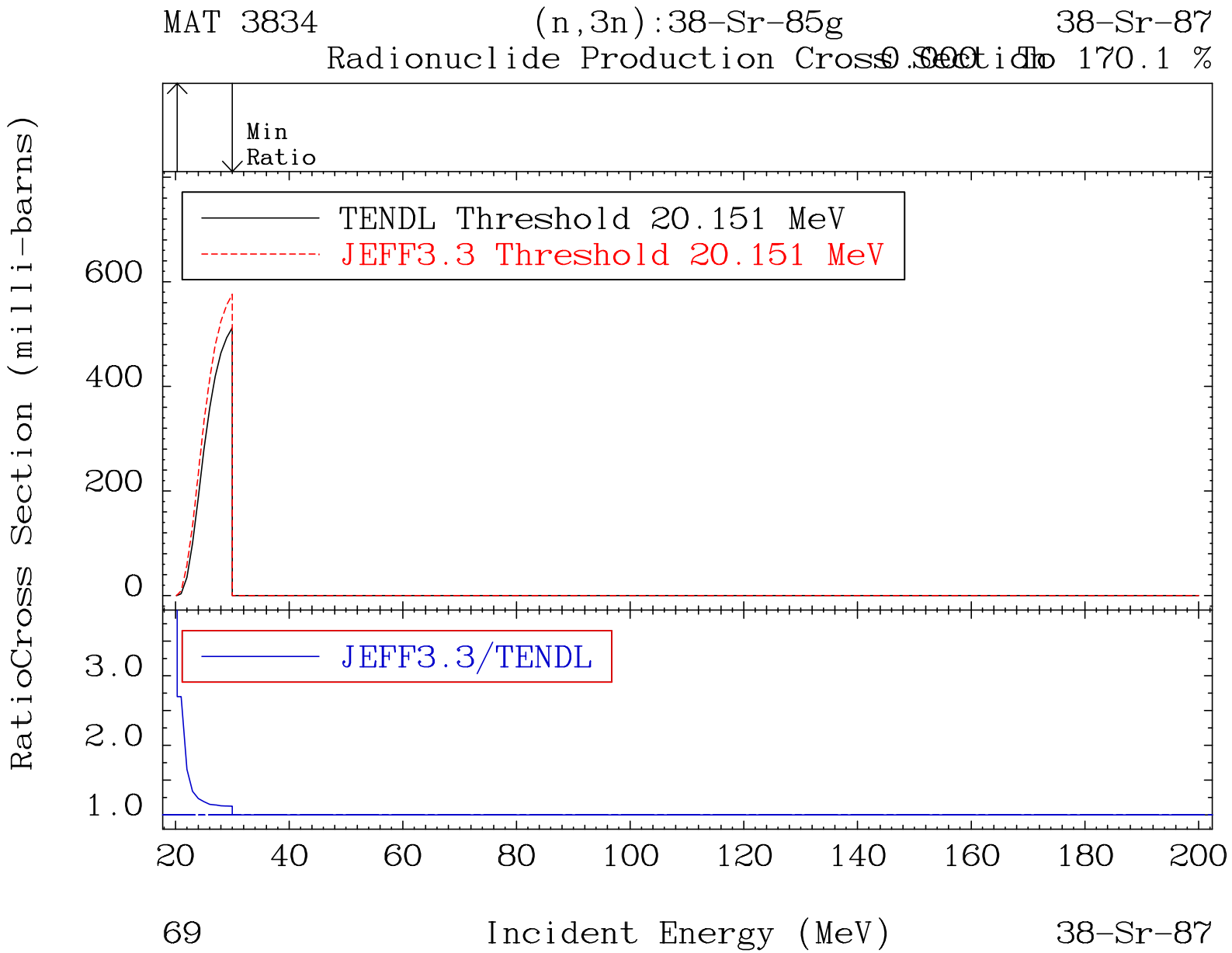

MAT 3834 Dpa disappearance (mt102 -120) 38-Sr-87
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
38-Sr-87

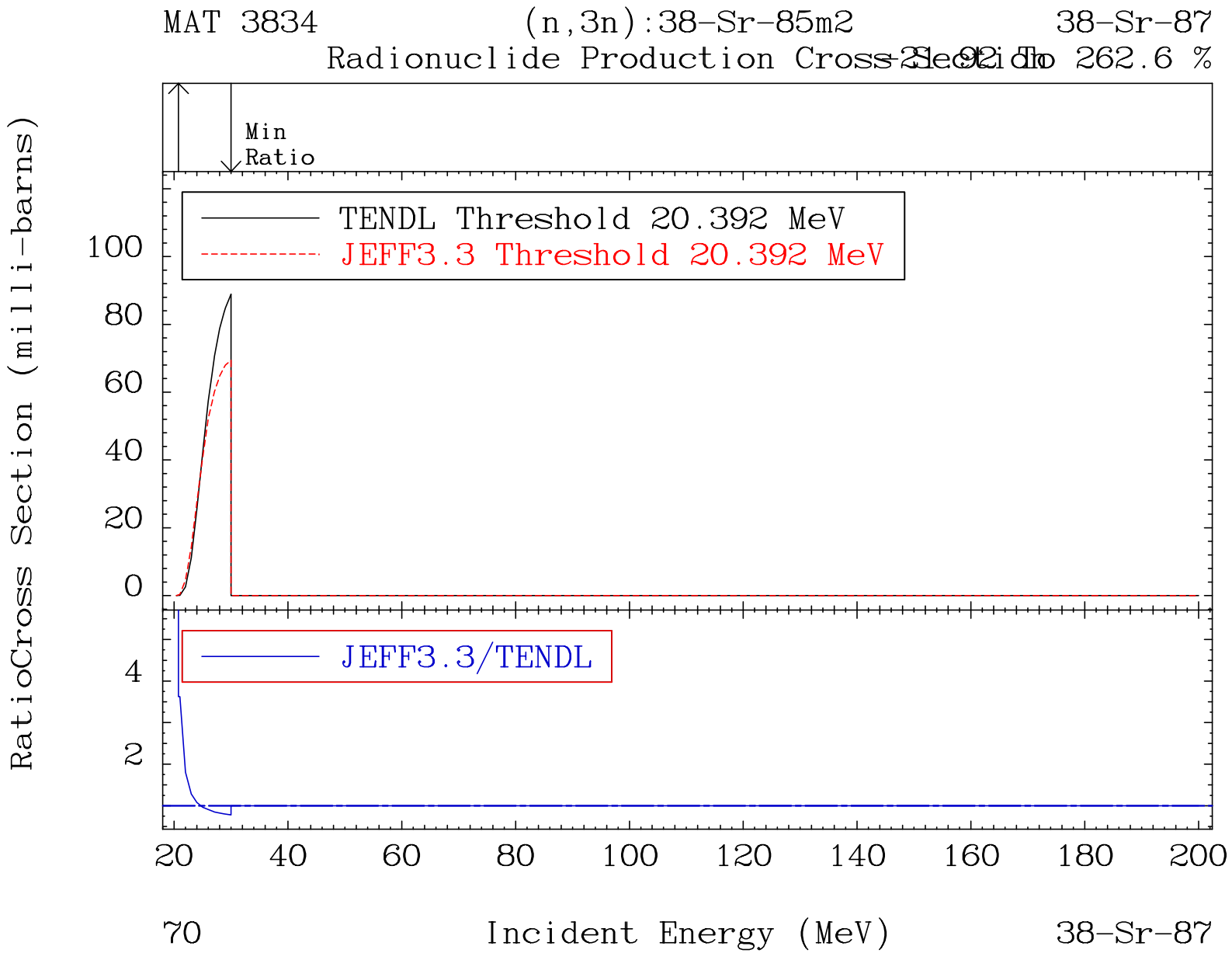

MAT 3834
Inelastic:38-Sr-87g
38-Sr-87
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 1.2000 MeV
JEFF3.3 Threshold 1.2000 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
38-Sr-87

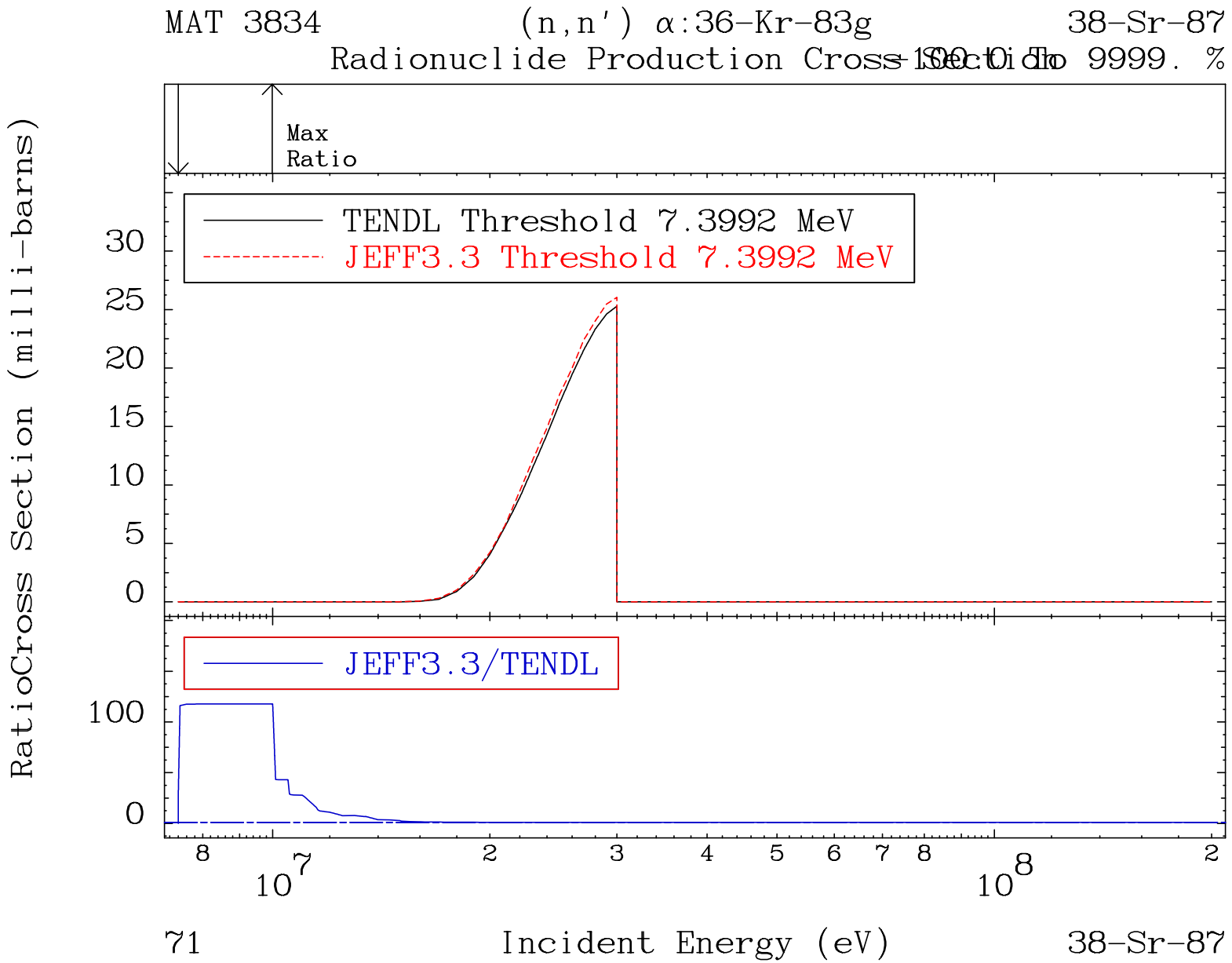

MAT 3834
Inelastic:38-Sr-87m1
38-Sr-87
Radionuclide Production Cross Section
Uncertainty 25.90 %
Max
Ratio
TENDL Threshold 393.04 keV
JEFF3.3 Threshold 393.04 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
66
Incident Energy (eV)
38-Sr-87

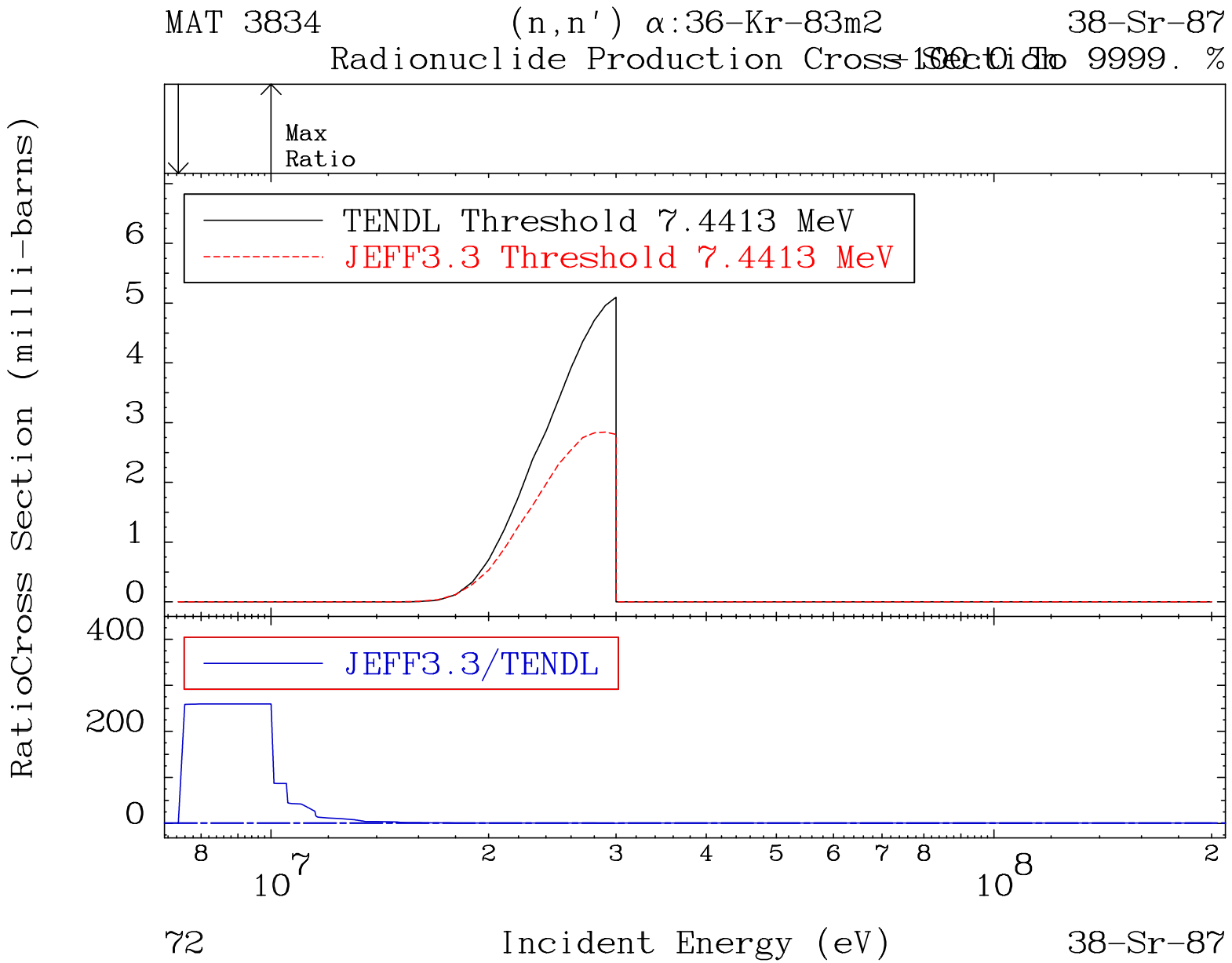

MAT 3834
(n,2n) d:37-Rb-84g
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 26.634 MeV
JEFF3.3 Threshold 26.634 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
10^{6}
10^{3}
10^{0}
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
38-Sr-87

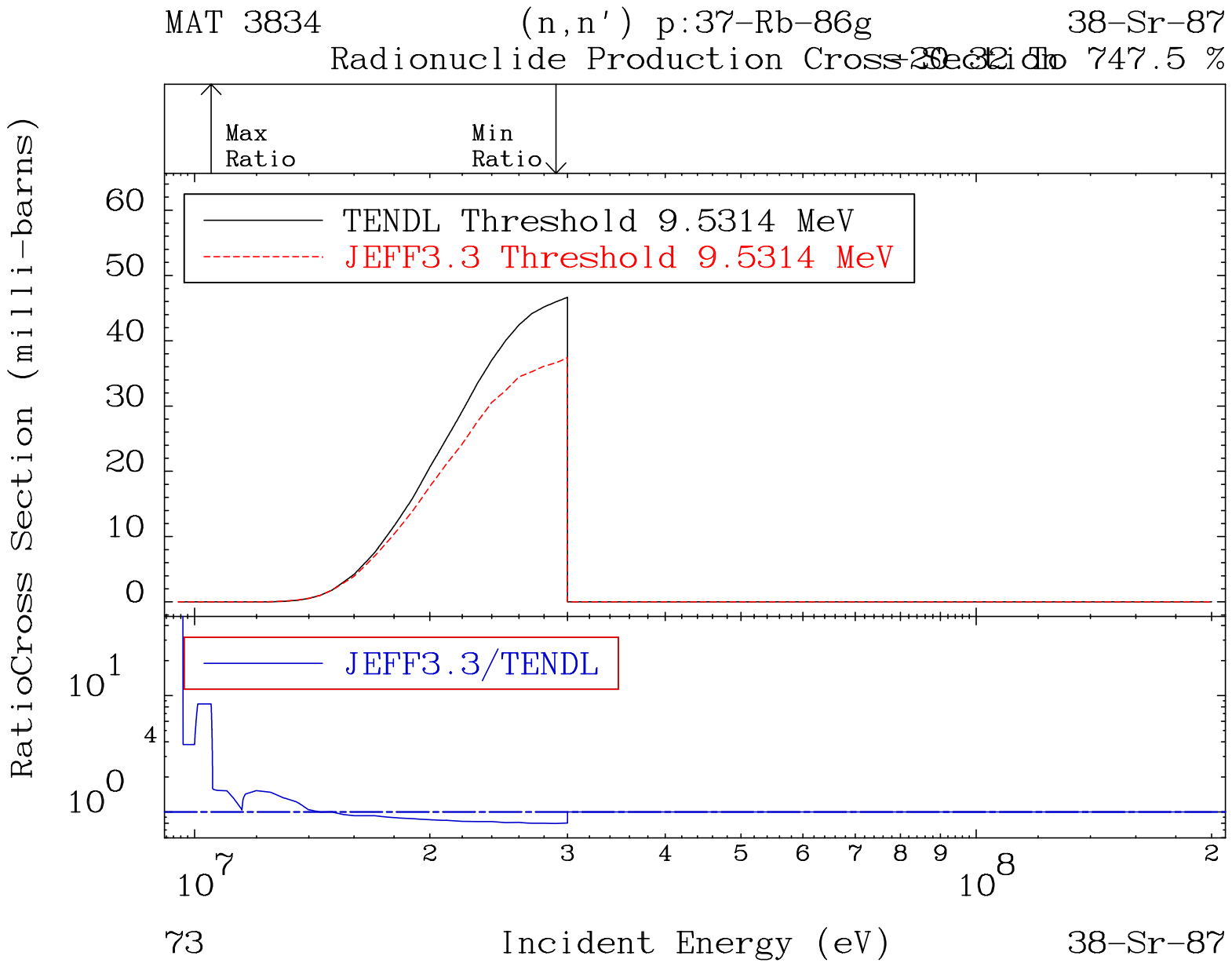

MAT 3834
(n,2n) d:37-Rb-84m2
38-Sr-87
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 27.103 MeV
JEFF3.3 Threshold 27.103 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
70
60
50
40
30
20
10
0
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
68
Incident Energy (MeV)
38-Sr-87

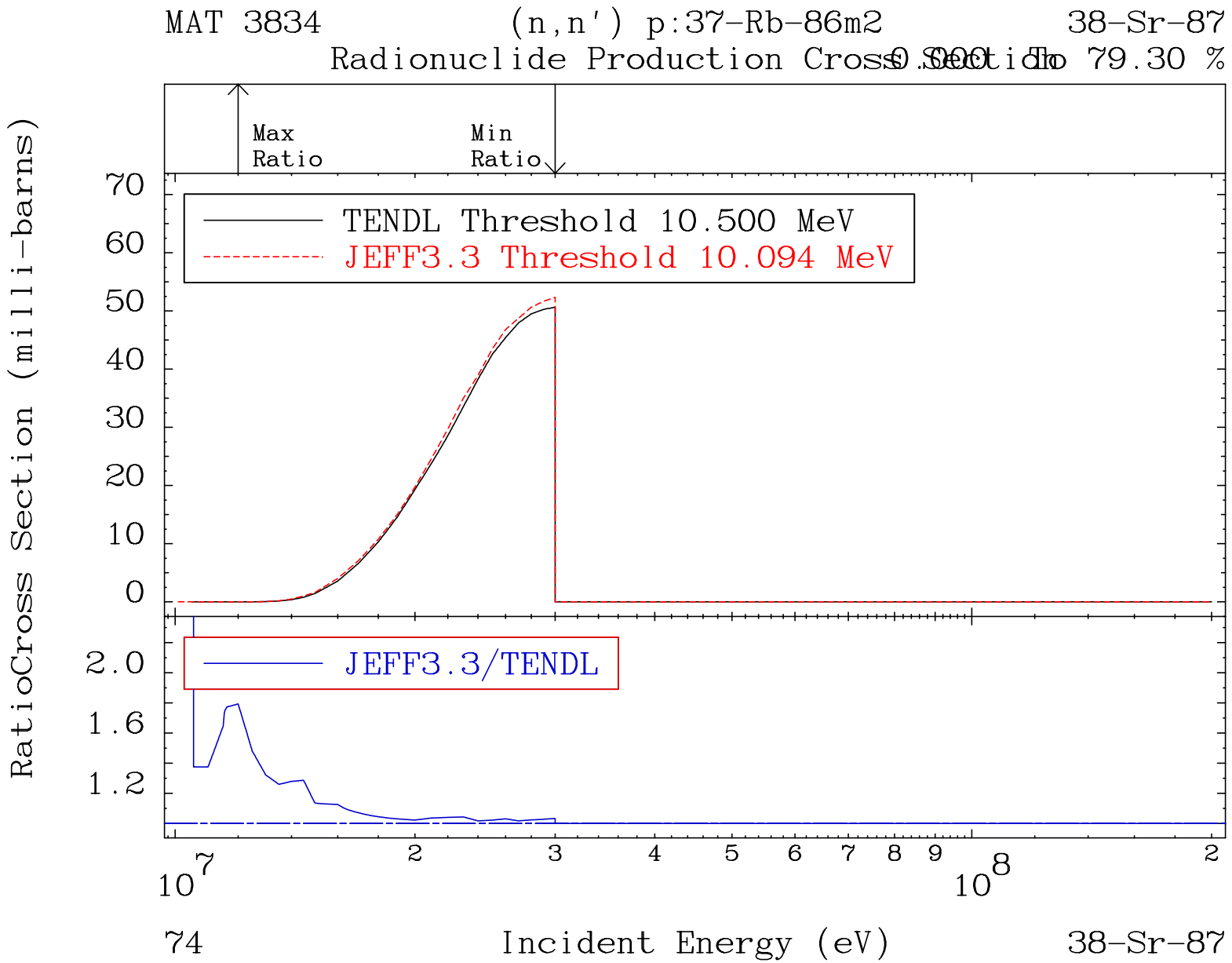

MAT 3834
(n,3n):38-Sr-85g
38-Sr-87
Radionuclide Production Cross Section
0.000 To 170.1 %
Min
Ratio
TENDL Threshold 20.151 MeV
JEFF3.3 Threshold 20.151 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
600
400
200
0
3.0
2.0
1.0
20
40
60
80
100
120
140
160
180
200
69
Incident Energy (MeV)
38-Sr-87

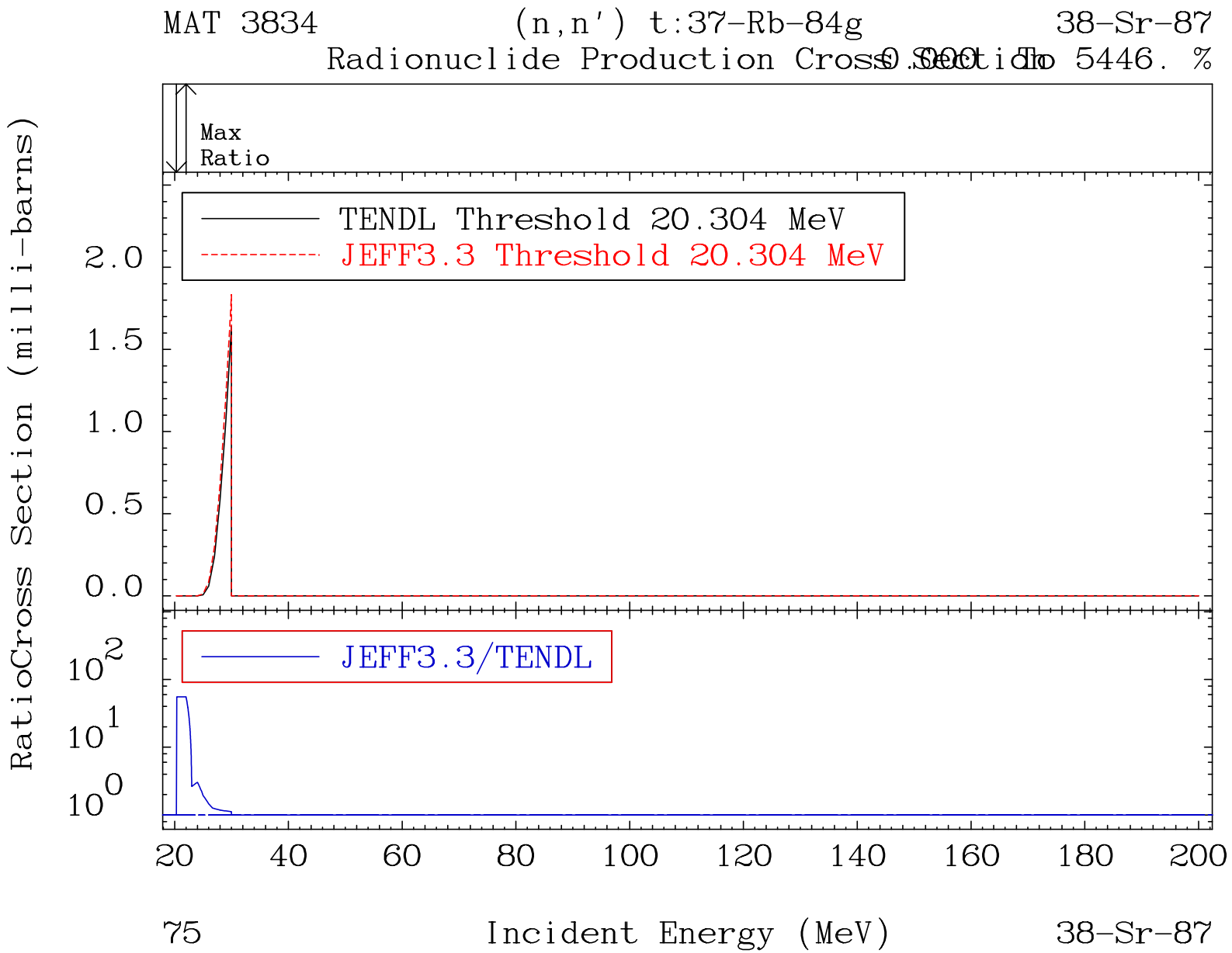

MAT 3834
(n,3n):38-Sr-85m2
38-Sr-87
Radionuclide Production Cross-Section To 262.6 %
Min
Ratio
TENDL Threshold 20.392 MeV
JEFF3.3 Threshold 20.392 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
2
20
40
60
80
100
120
140
160
180
200
70
Incident Energy (MeV)
38-Sr-87

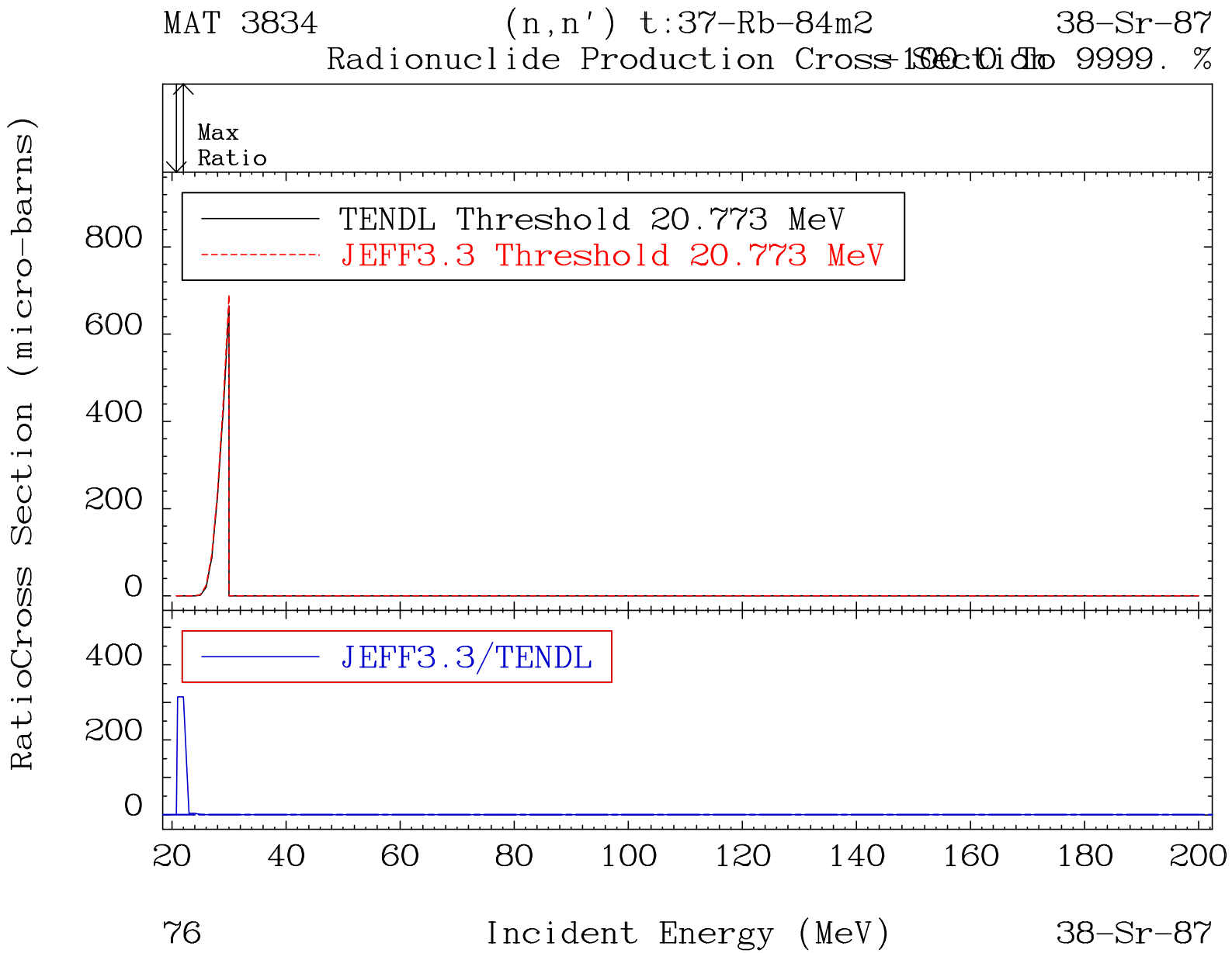

MAT 3834
(n,n') α:36-Kr-83g
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.3992 MeV
JEFF3.3 Threshold 7.3992 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
38-Sr-87

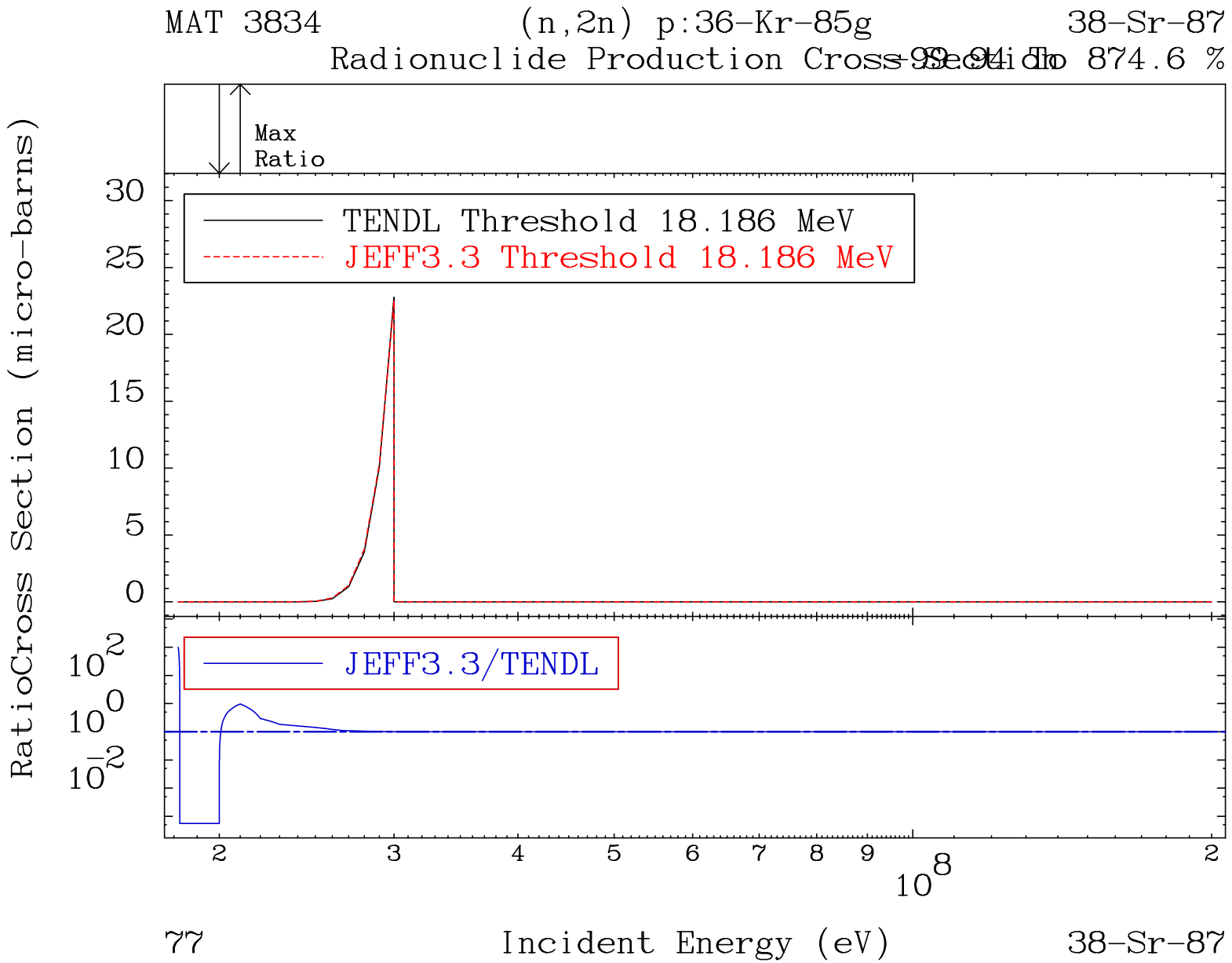

MAT 3834
(n,n') α:36-Kr-83m2
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.4413 MeV
JEFF3.3 Threshold 7.4413 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
38-Sr-87

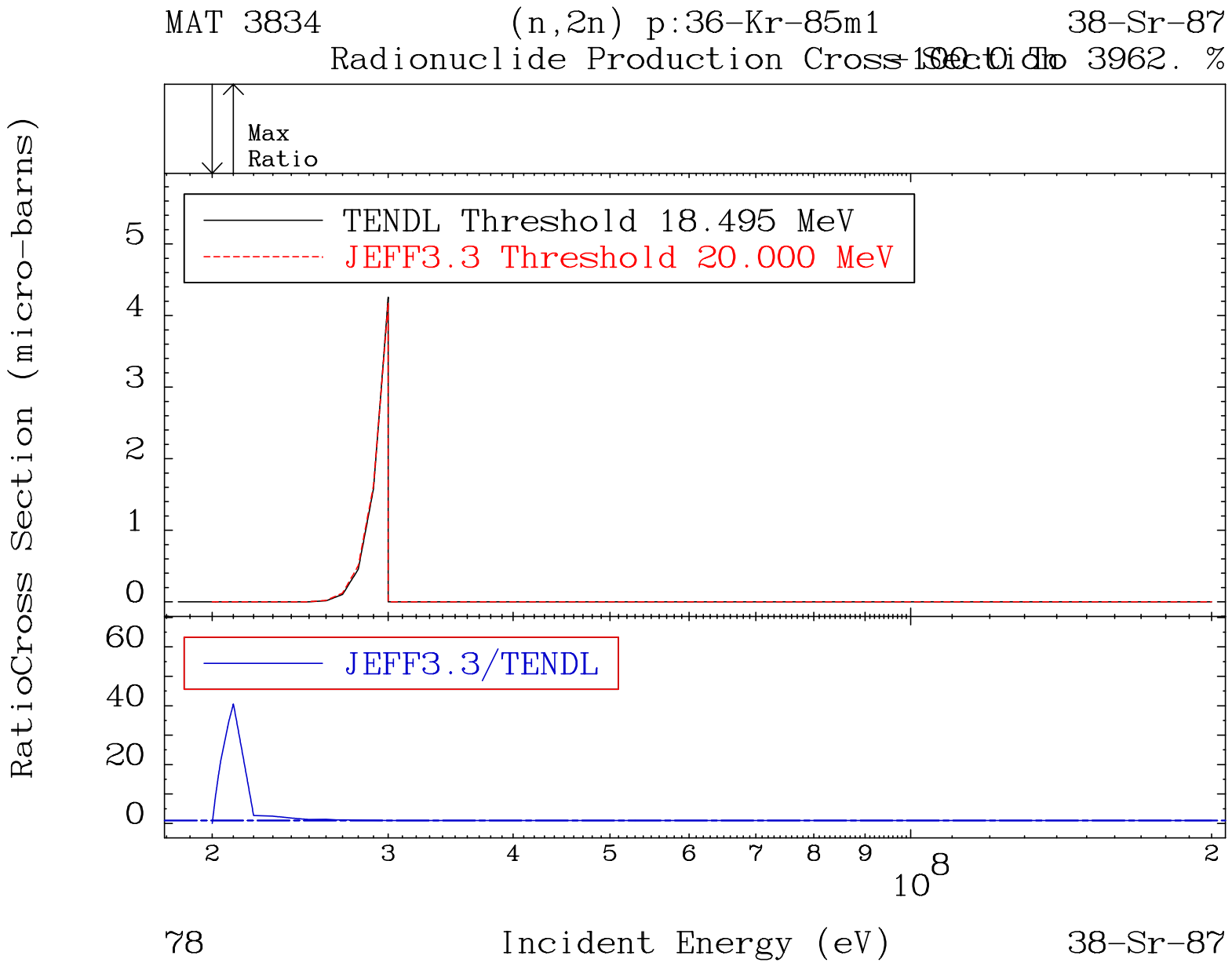

MAT 3834
(n,n') p:37-Rb-86g
38-Sr-87
Radionuclide Production Cross Section To 747.5 %
Max Ratio
Min Ratio
TENDL Threshold 9.5314 MeV
JEFF3.3 Threshold 9.5314 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
38-Sr-87

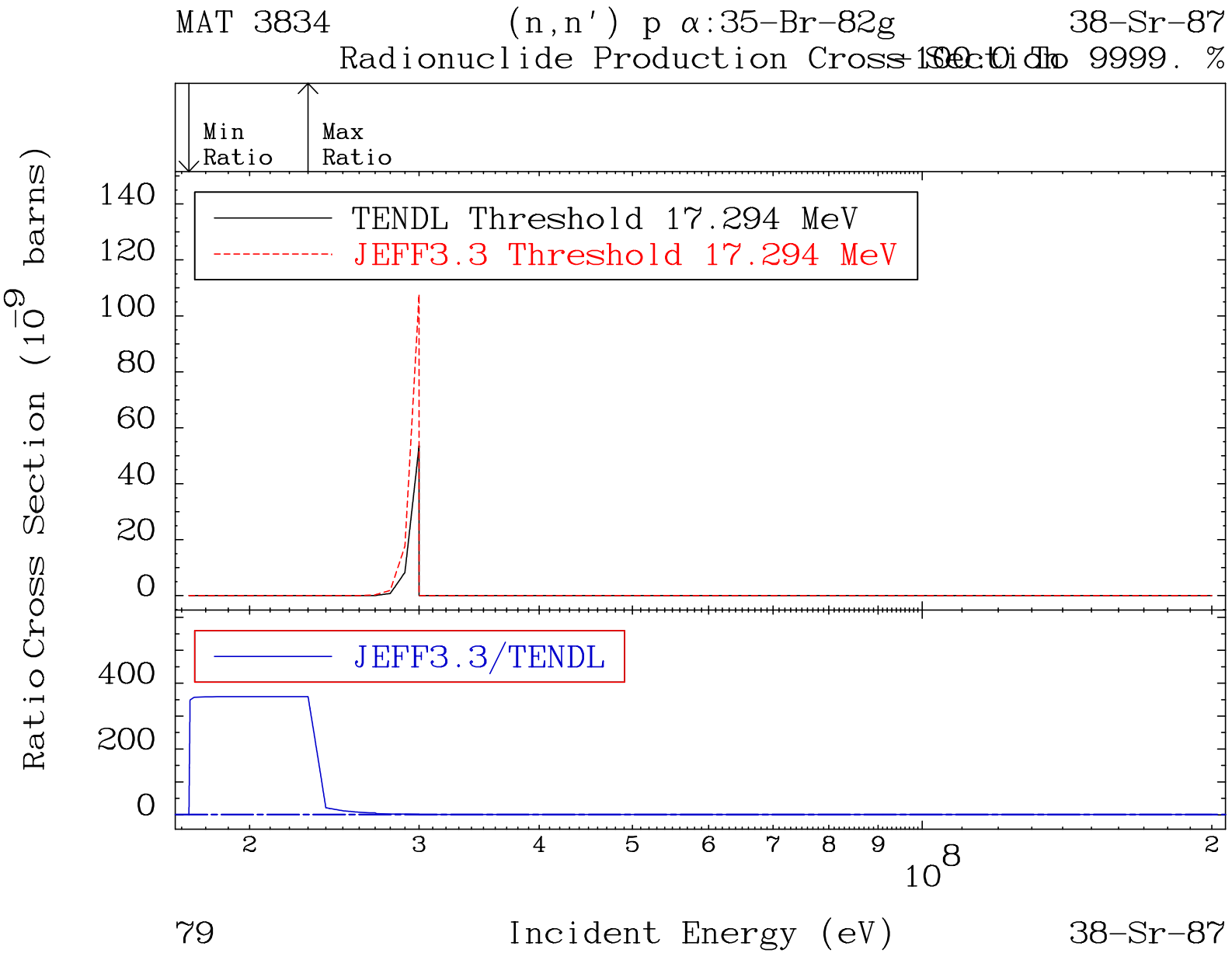

MAT 3834
(n,n') p:37-Rb-86m2
38-Sr-87
Radionuclide Production Cross Section
0.000 To 79.30 %
Max Ratio
Min Ratio
TENDL Threshold 10.500 MeV
JEFF3.3 Threshold 10.094 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.6
1.2
10^7
2
3
4
5
6
7
8
9
10^8
2
74
Incident Energy (eV)
38-Sr-87

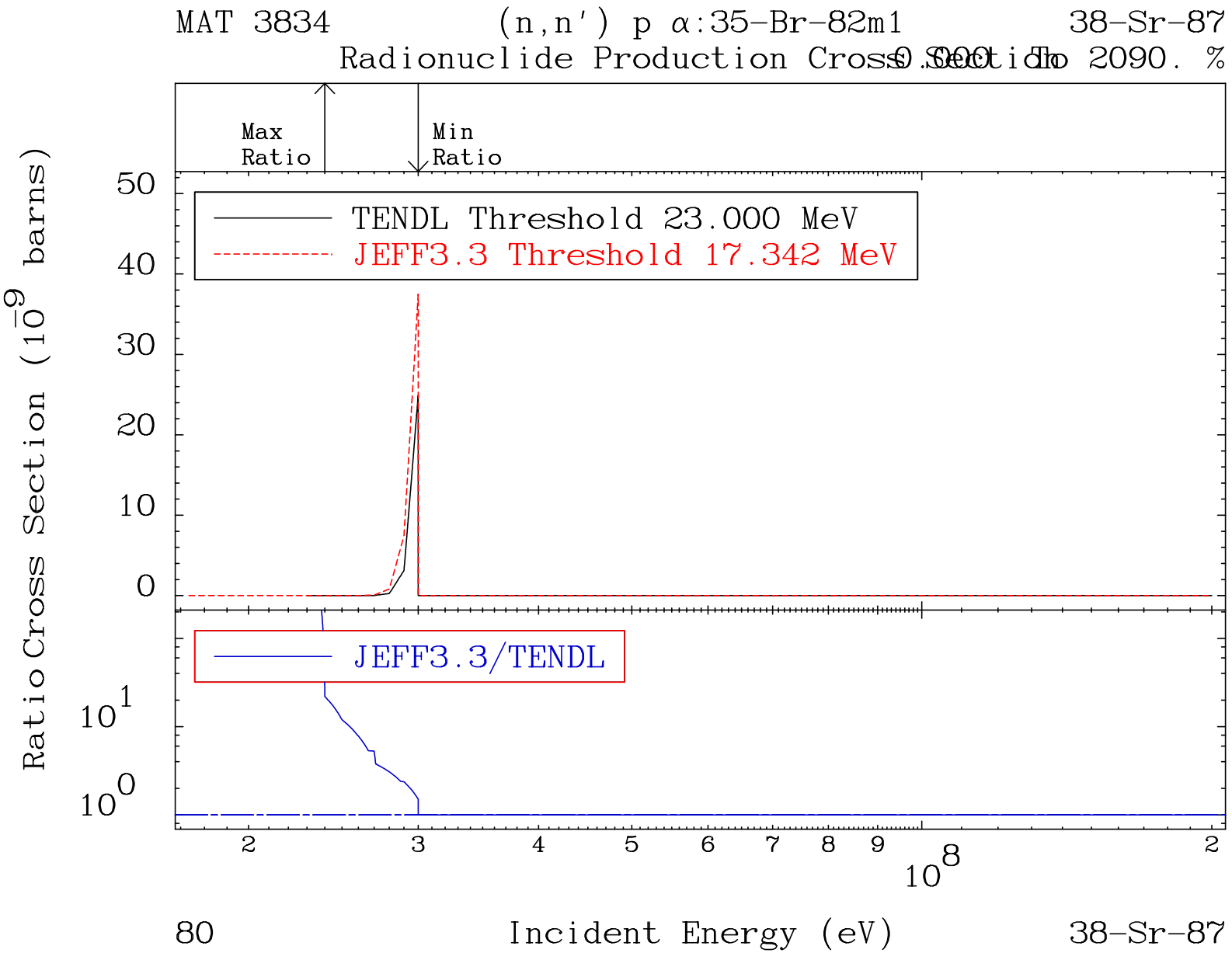

MAT 3834
(n,n') t:37-Rb-84g
38-Sr-87
Radionuclide Production Cross Section
0.000 To 5446. %
Max
Ratio
TENDL Threshold 20.304 MeV
JEFF3.3 Threshold 20.304 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^2
10^1
10^0
20
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
38-Sr-87

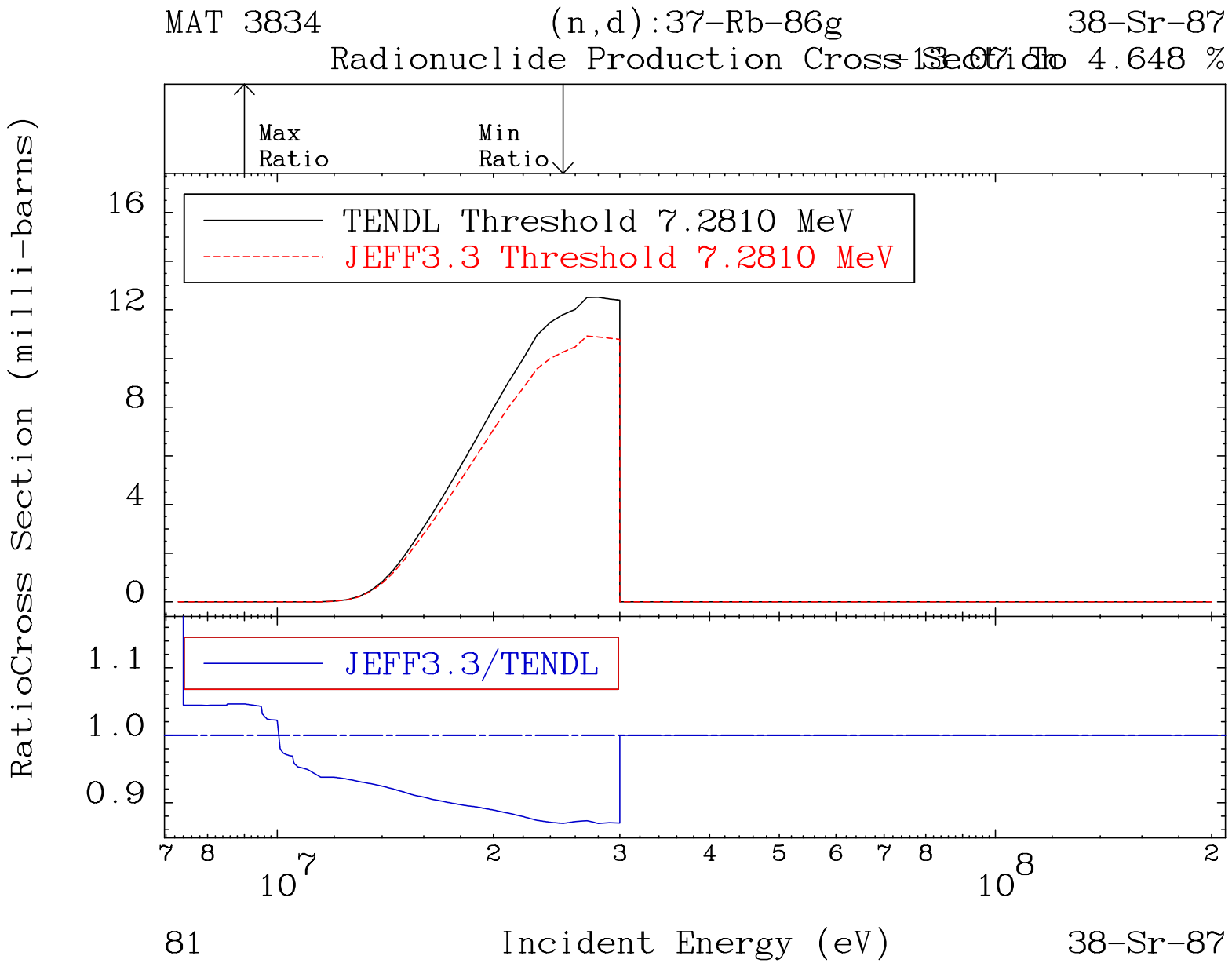

MAT 3834
(n,n') t:37-Rb-84m2
38-Sr-87
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 20.773 MeV
JEFF3.3 Threshold 20.773 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
400
200
0
20
40
60
80
100
120
140
160
180
200
76
Incident Energy (MeV)
38-Sr-87

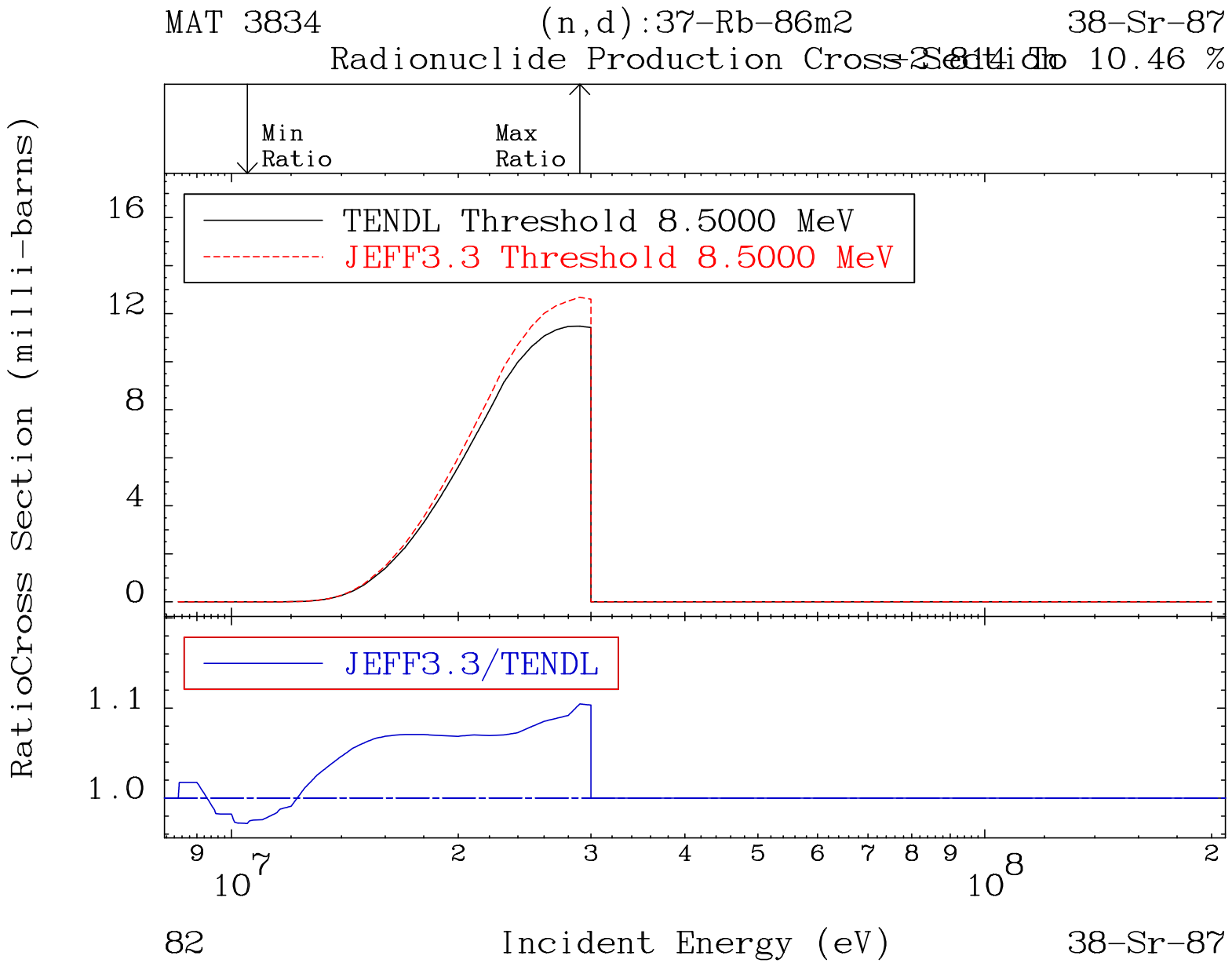

MAT 3834
(n,2n) p:36-Kr-85g
38-Sr-87
Radionuclide Production Cross Section To 874.6 %
Max
Ratio
TENDL Threshold 18.186 MeV
JEFF3.3 Threshold 18.186 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
77
38-Sr-87

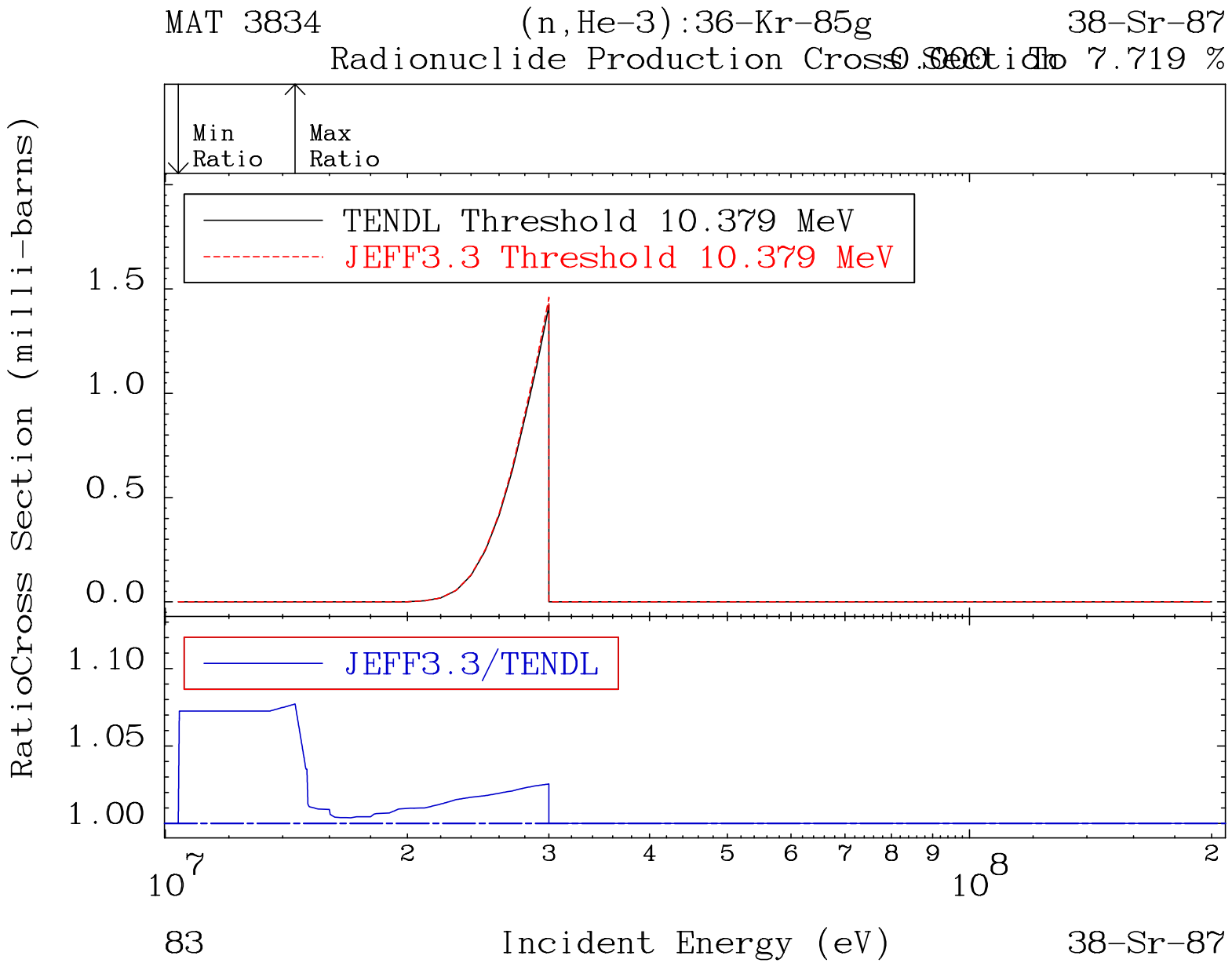

MAT 3834
(n,2n) p:36-Kr-85m1
38-Sr-87
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 18.495 MeV
JEFF3.3 Threshold 20.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
78
38-Sr-87

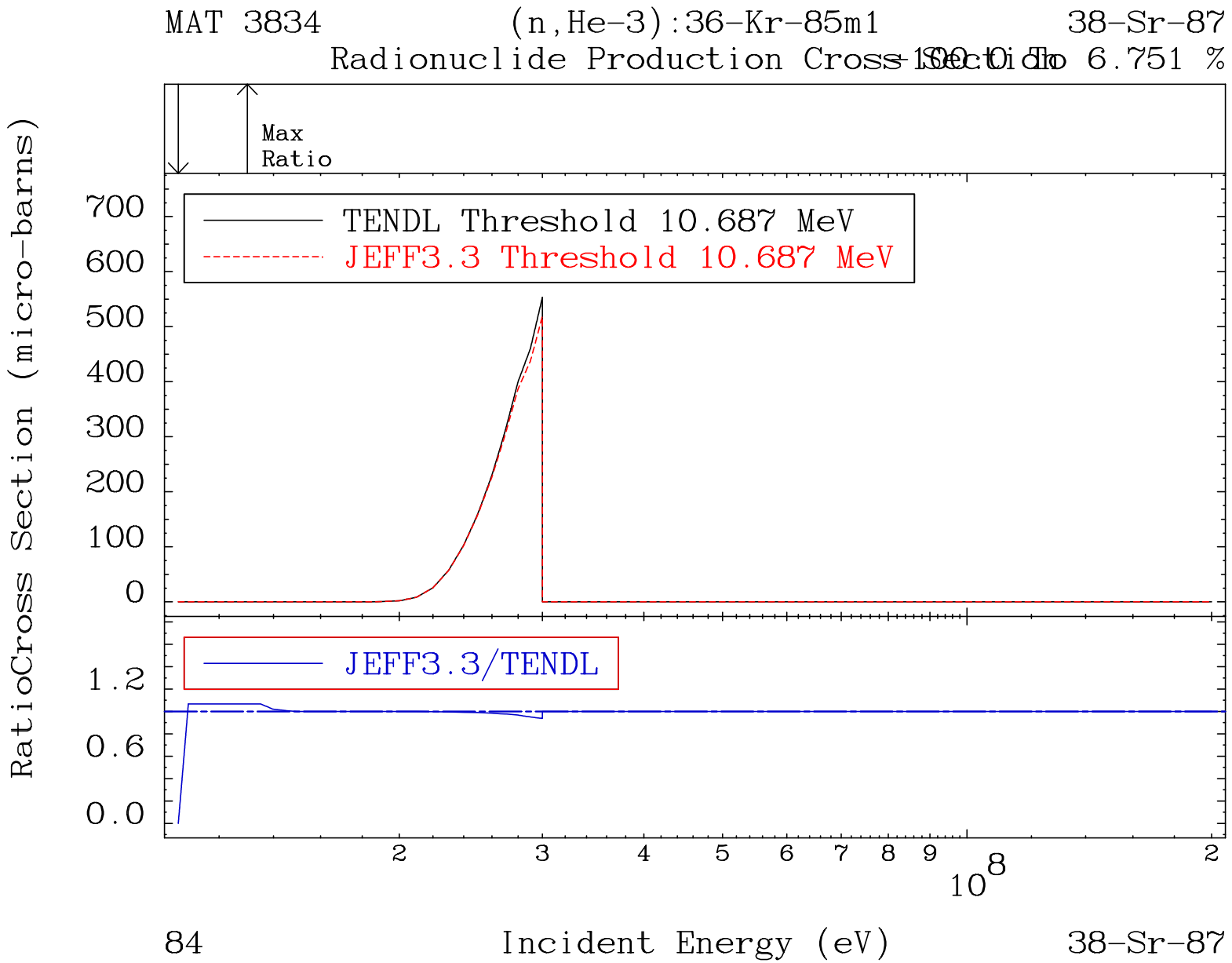

MAT 3834
(n,n') p α:35-Br-82g
38-Sr-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 17.294 MeV
JEFF3.3 Threshold 17.294 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
10^8
79
38-Sr-87

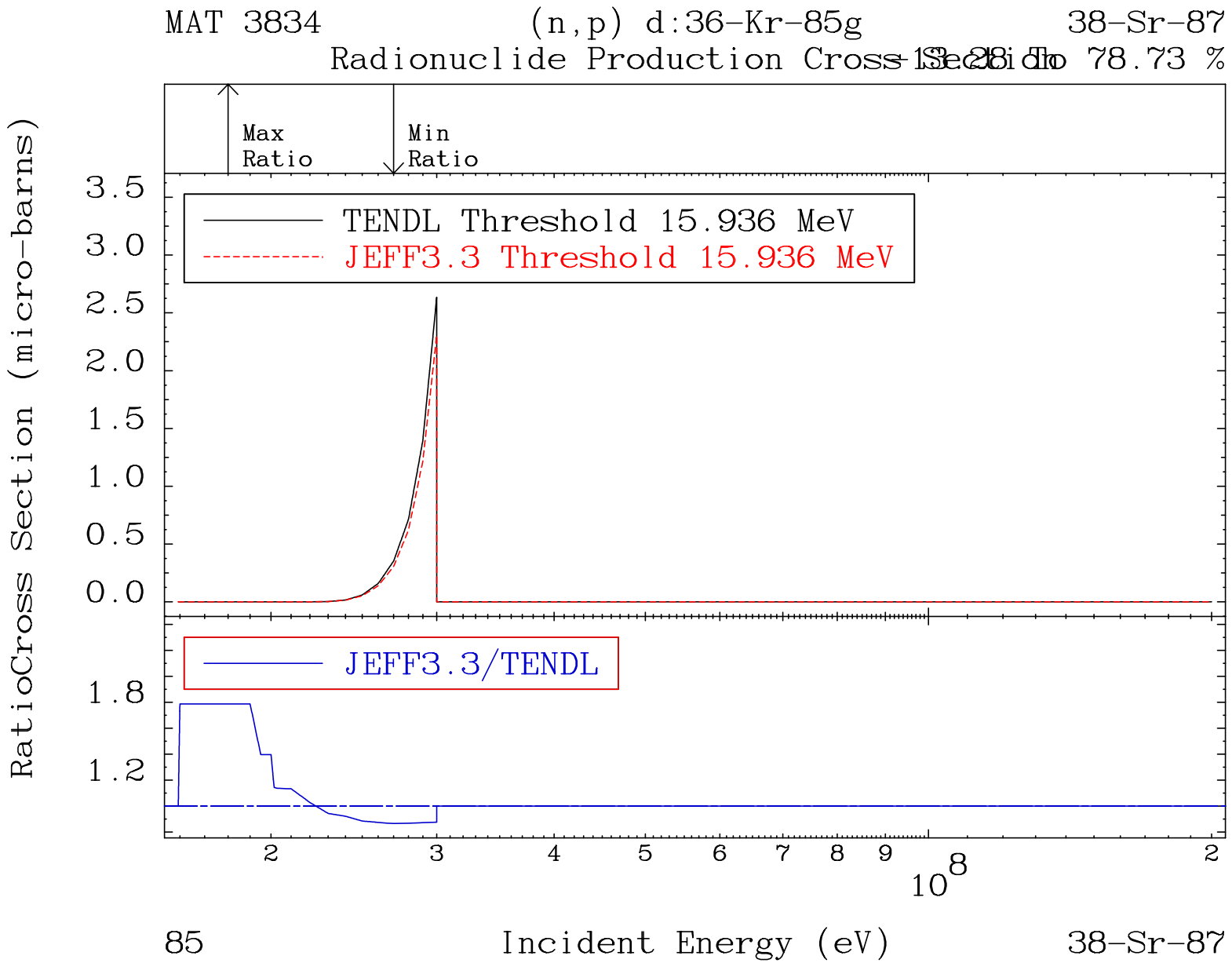

MAT 3834
(n,n') p α:35-Br-82m1
38-Sr-87
Radionuclide Production Cross Section
0.000 To 2090. %
Max Ratio
Min Ratio
TENDL Threshold 23.000 MeV
JEFF3.3 Threshold 17.342 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
50
40
30
20
10
0
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
38-Sr-87

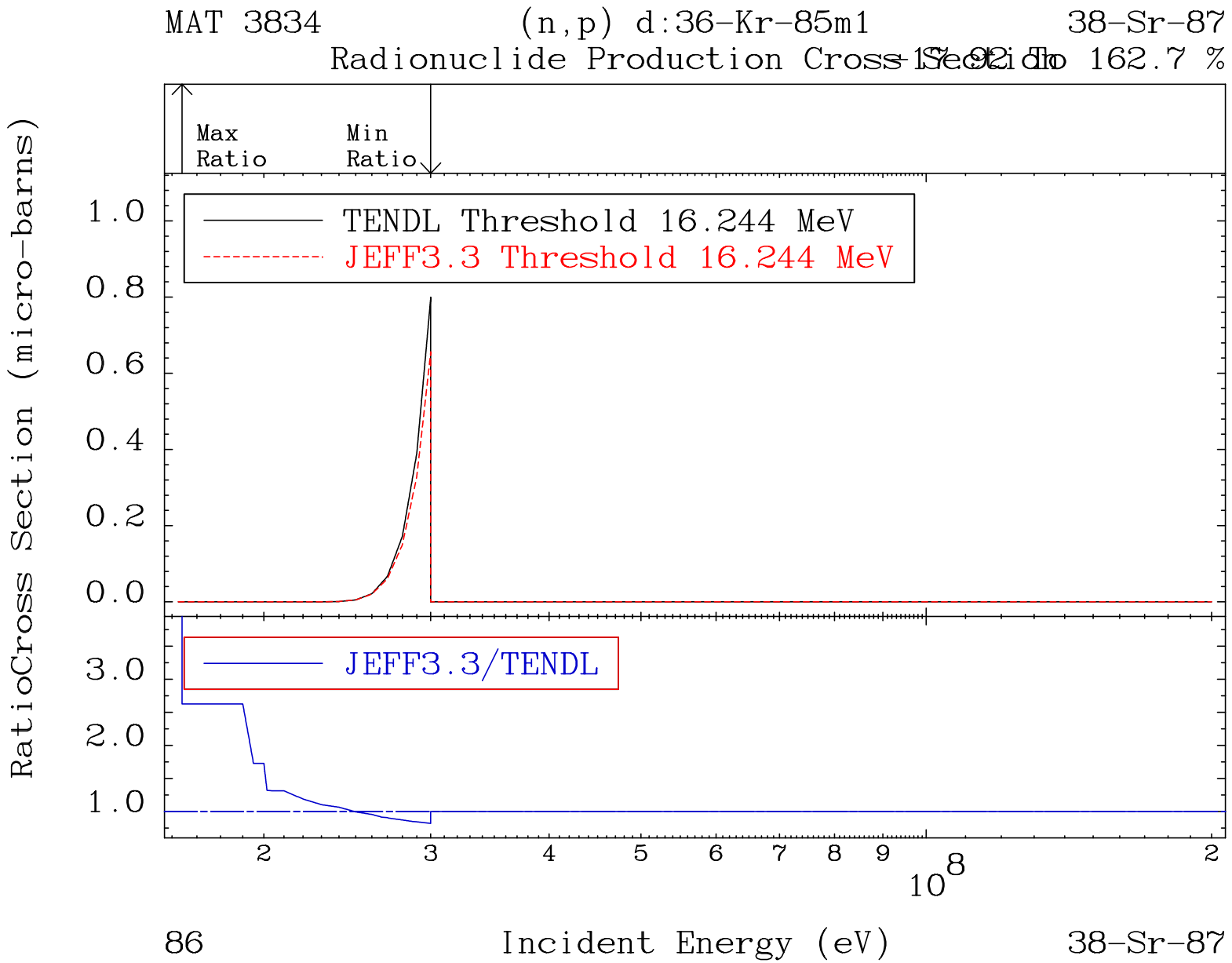

MAT 3834
(n,d):37-Rb-86g
38-Sr-87
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.2810 MeV
JEFF3.3 Threshold 7.2810 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
38-Sr-87

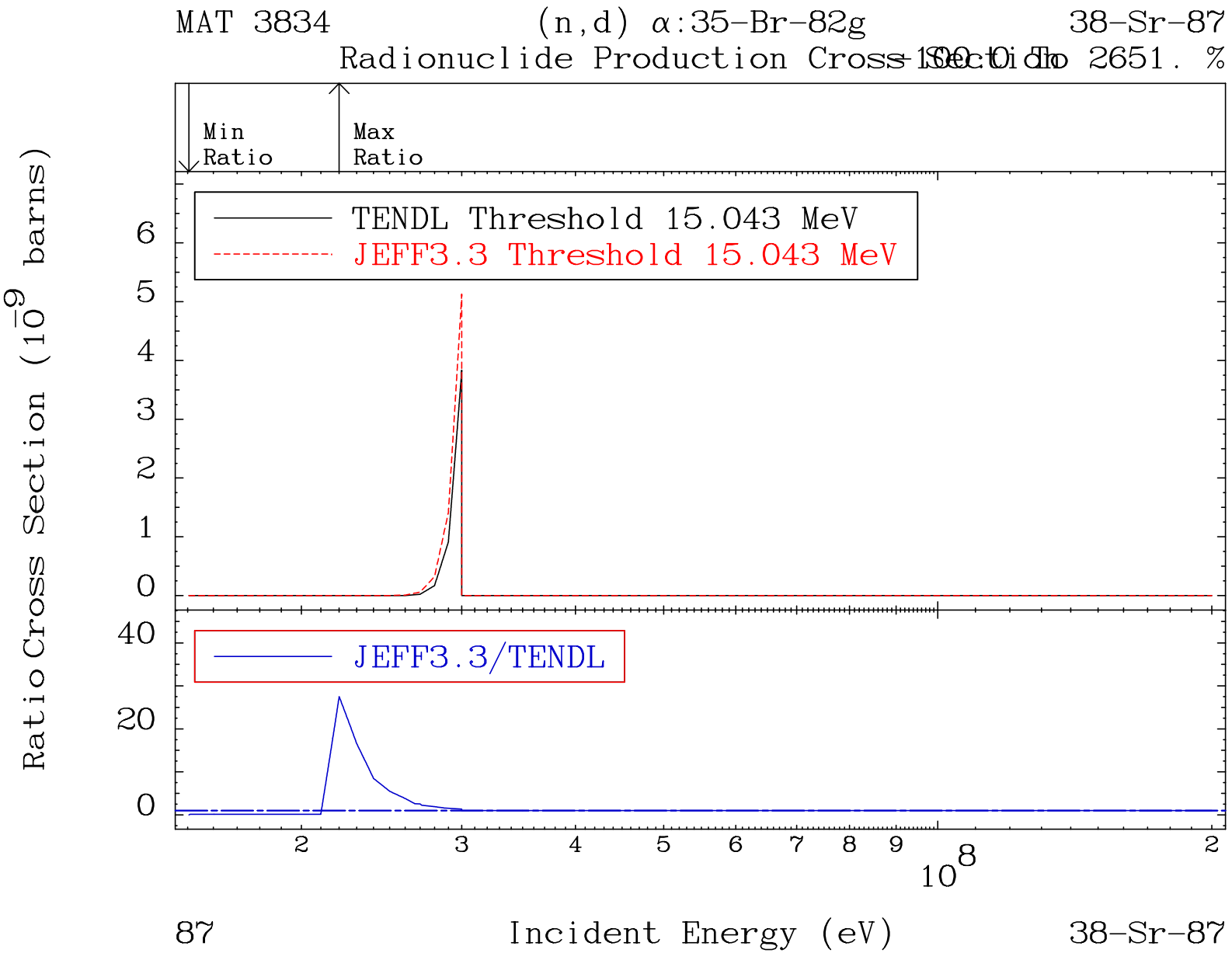

MAT 3834
(n,d):37-Rb-86m2
38-Sr-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 8.5000 MeV
JEFF3.3 Threshold 8.5000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
38-Sr-87

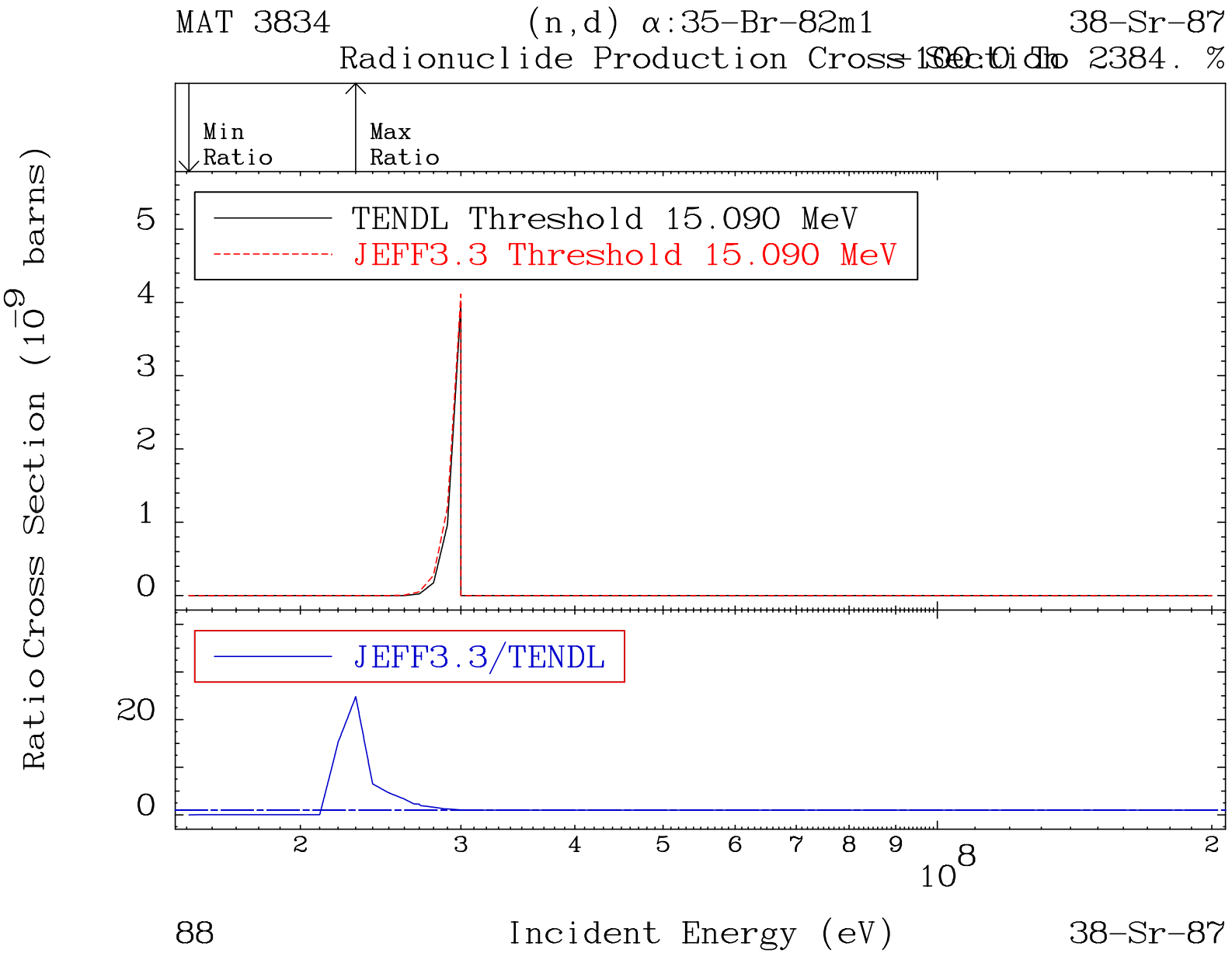

MAT 3834
(n,He-3):36-Kr-85g
38-Sr-87
Radionuclide Production Cross Section
0.000 To 7.719 %
Min Ratio
Max Ratio
TENDL Threshold 10.379 MeV
JEFF3.3 Threshold 10.379 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.5
1.0
0.5
0.0
1.10
1.05
1.00
10^7
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
38-Sr-87


MAT 3834
(n,He-3):36-Kr-85m1
38-Sr-87
Radionuclide Production Cross Section To 6.751 %
Max
Ratio
TENDL Threshold 10.687 MeV
JEFF3.3 Threshold 10.687 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
700
600
500
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
84
Incident Energy (eV)
38-Sr-87


MAT 3834
(n,p) d:36-Kr-85g
38-Sr-87
Radionuclide Production Cross Section To 78.73 %
Max Ratio
Min Ratio
TENDL Threshold 15.936 MeV
JEFF3.3 Threshold 15.936 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
38-Sr-87


MAT 3834
(n,p) d:36-Kr-85m1
38-Sr-87
Radionuclide Production Cross Section To 162.7 %
Max Ratio
Min Ratio
TENDL Threshold 16.244 MeV
JEFF3.3 Threshold 16.244 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
86
Incident Energy (eV)
38-Sr-87


MAT 3834
(n,d) α:35-Br-82g
38-Sr-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.043 MeV
JEFF3.3 Threshold 15.043 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
87
38-Sr-87


MAT 3834
(n,d) α:35-Br-82m1
38-Sr-87
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 15.090 MeV
JEFF3.3 Threshold 15.090 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
88
38-Sr-87