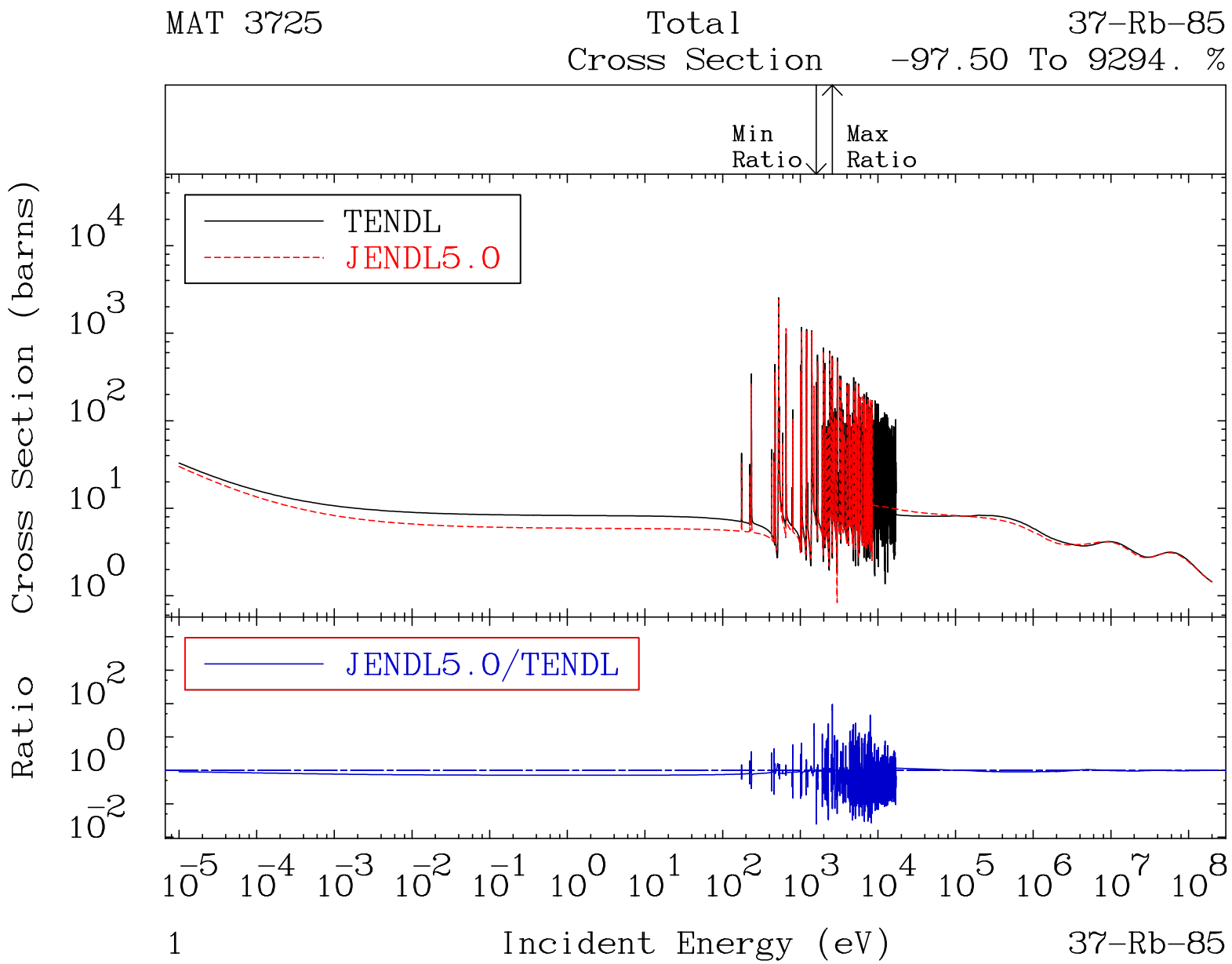
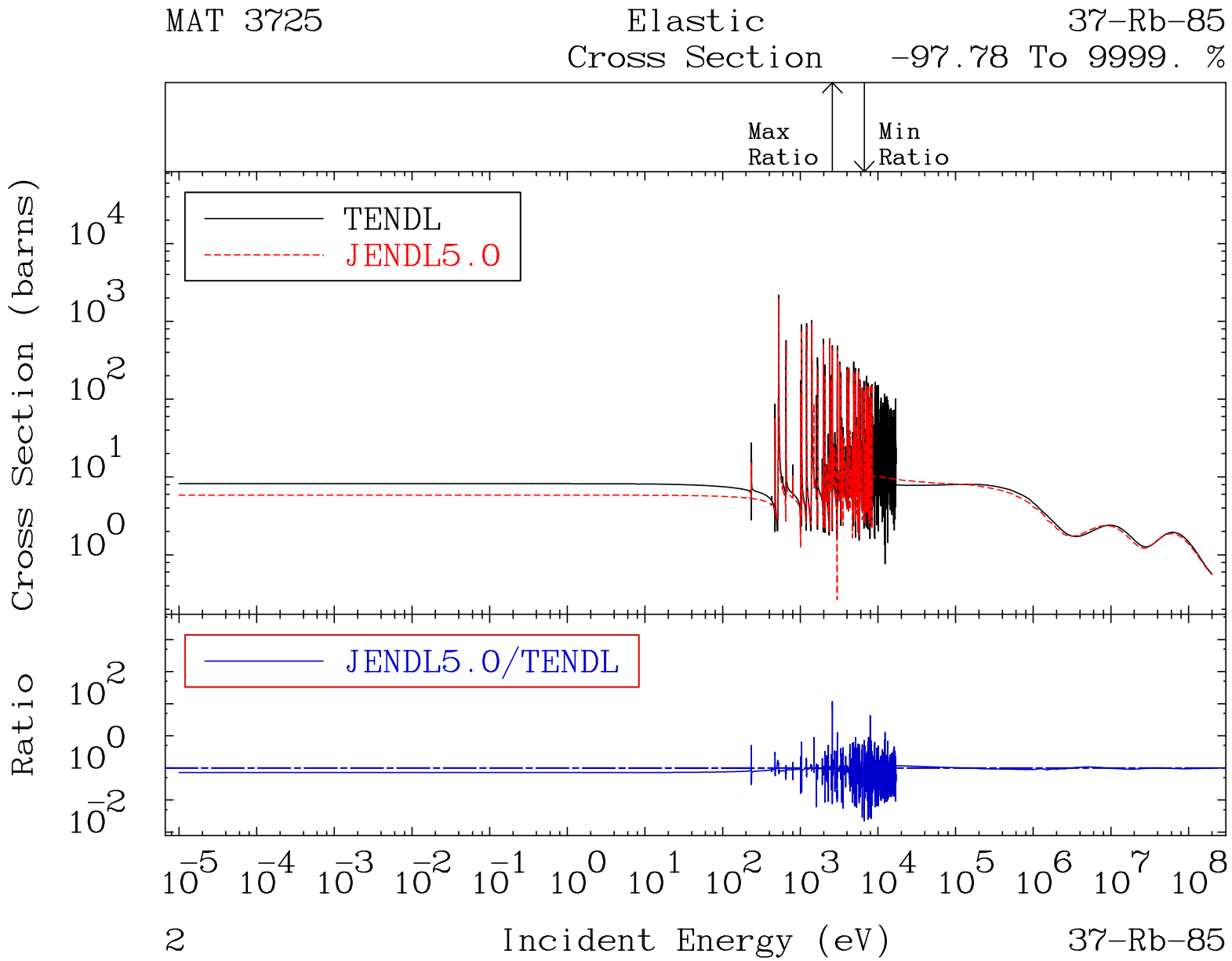
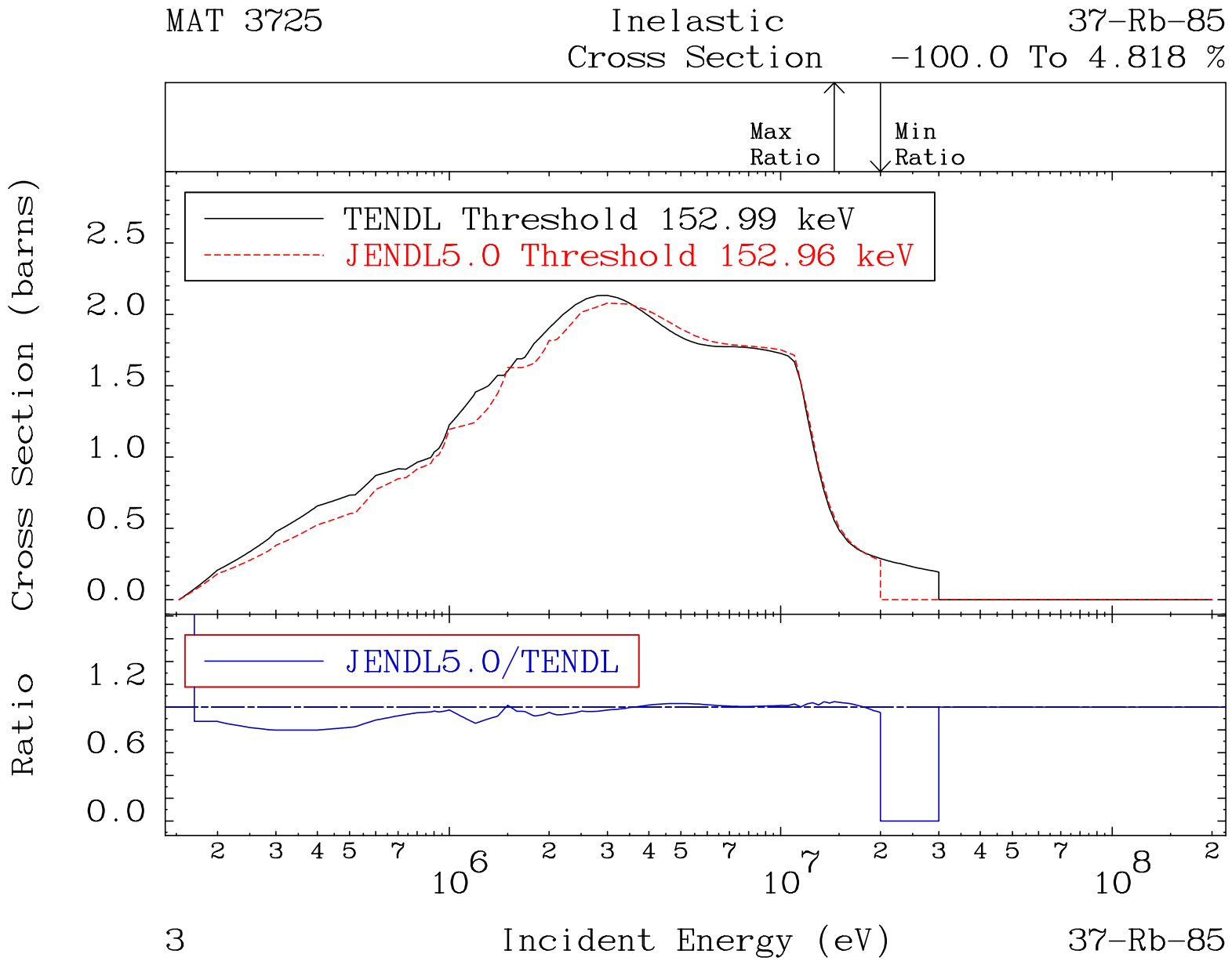
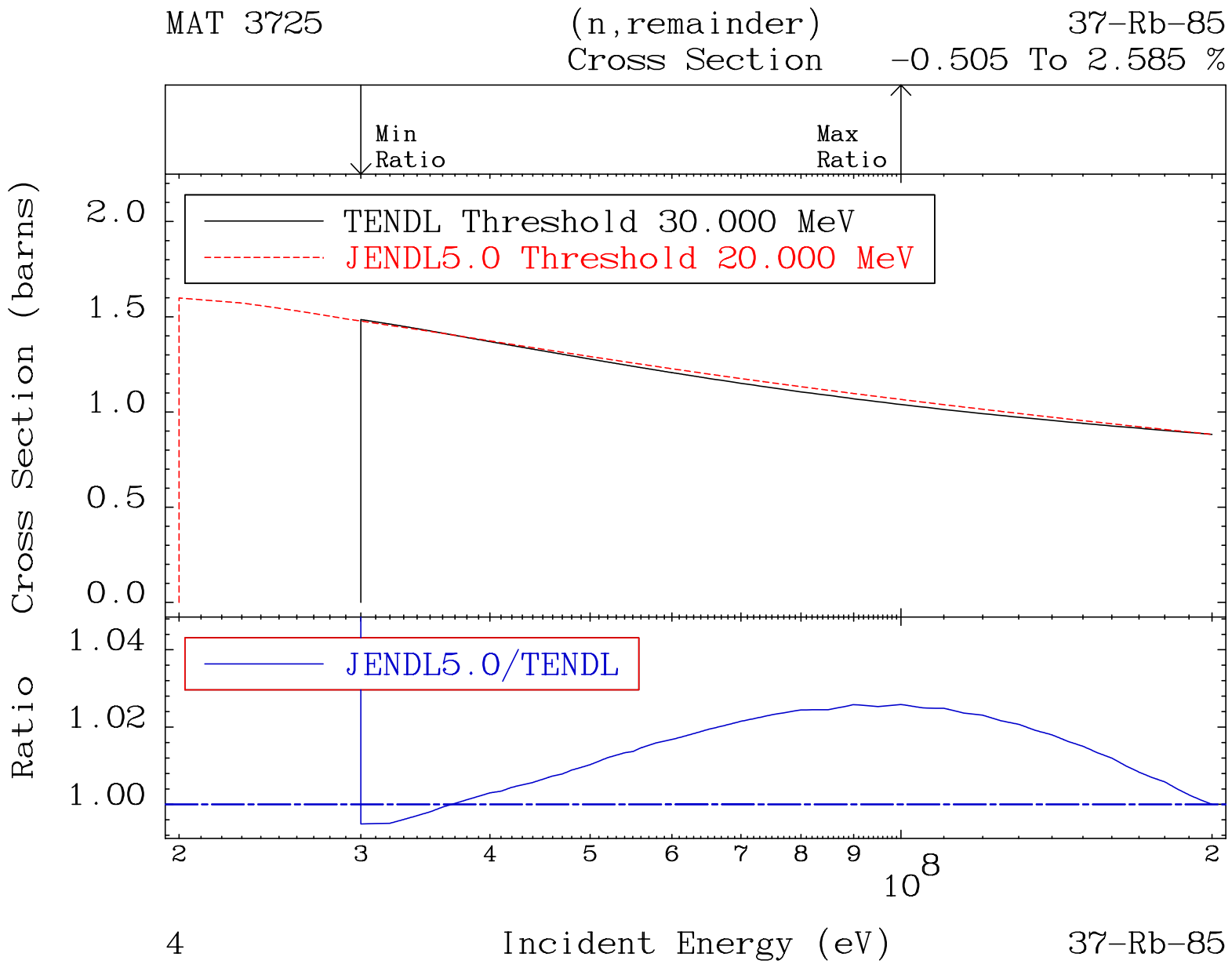
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

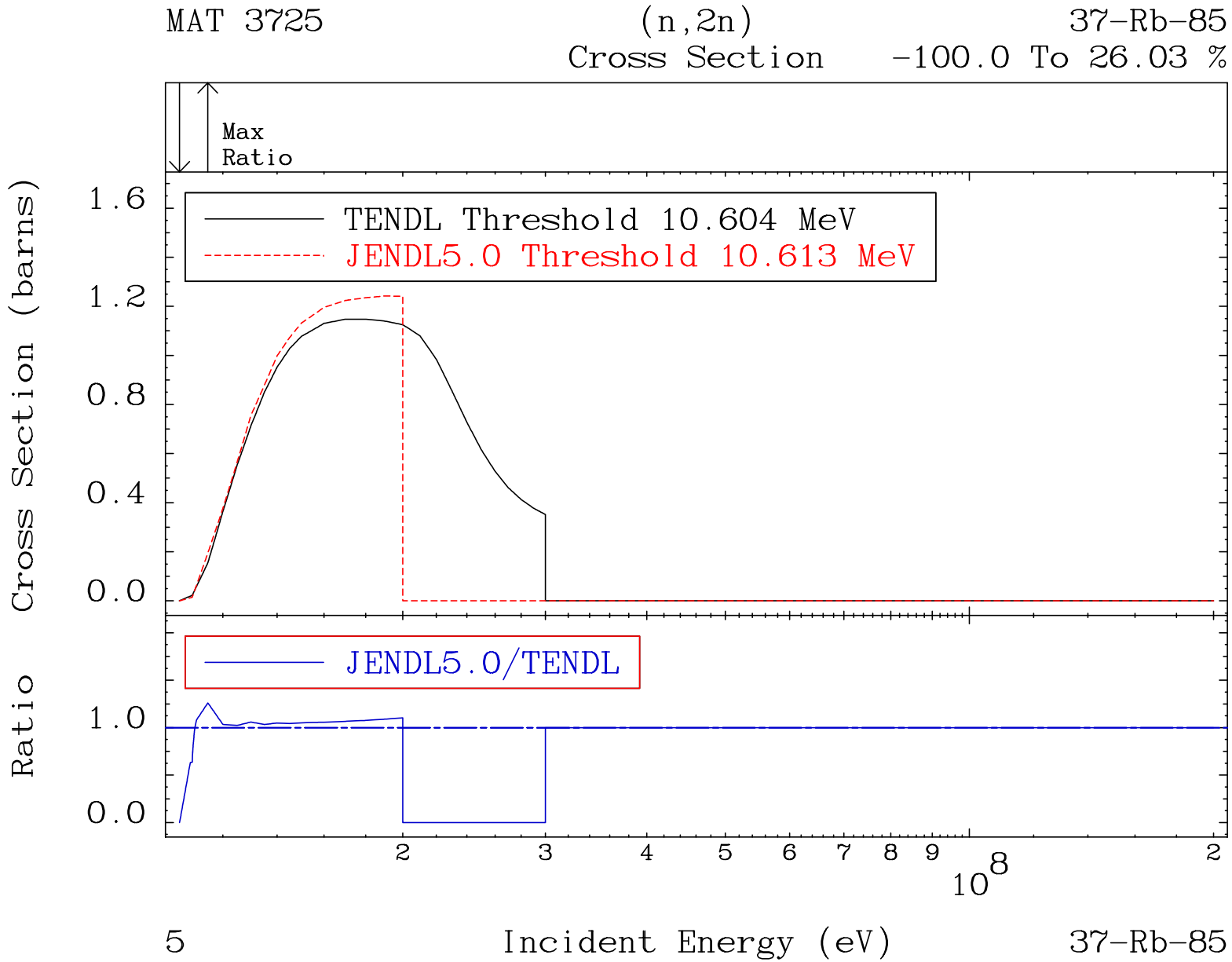
Press Mouse Button to Start

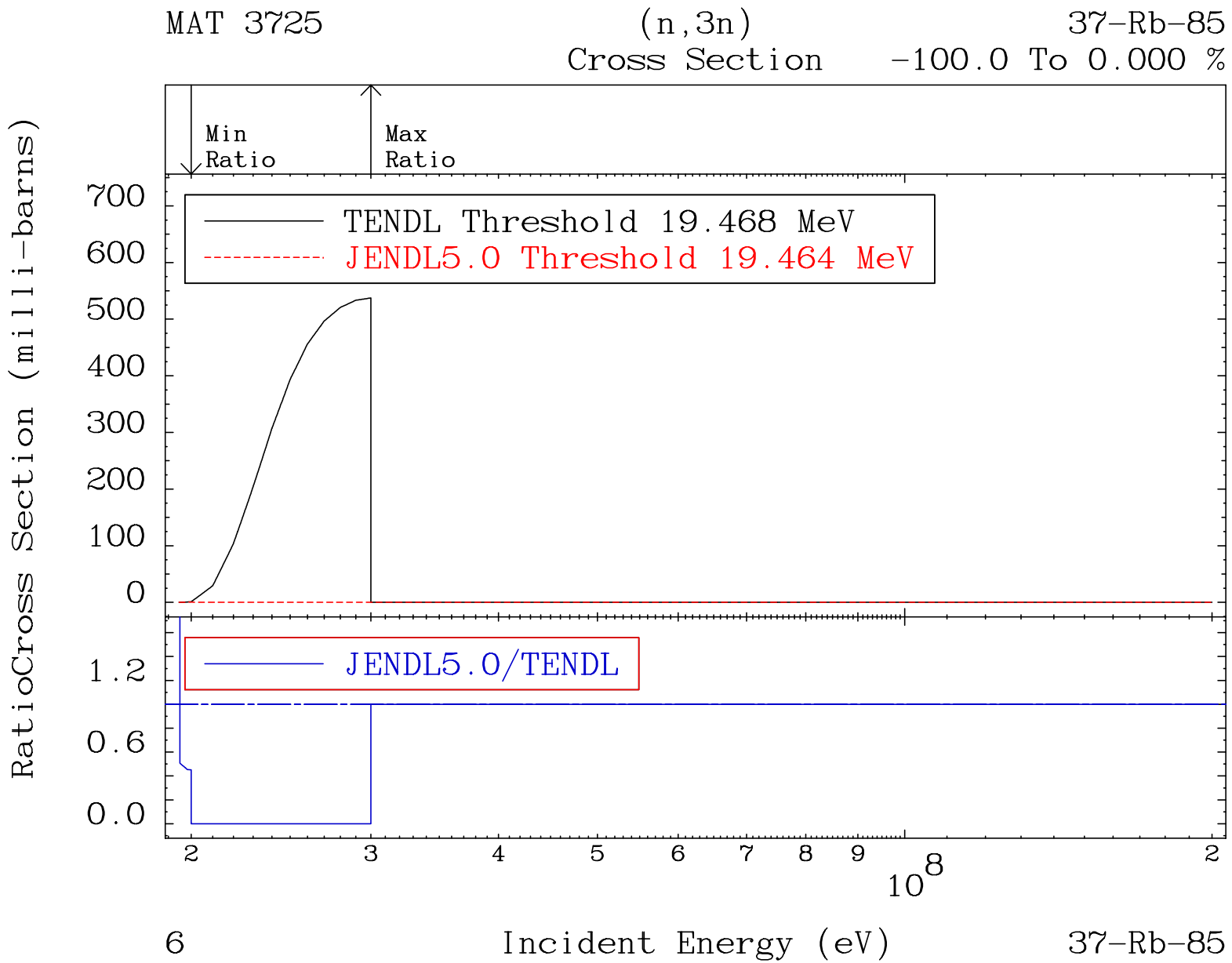

MAT 3725
Total
Cross Section
37-Rb-85
-97.50 To 9294. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
37-Rb-85

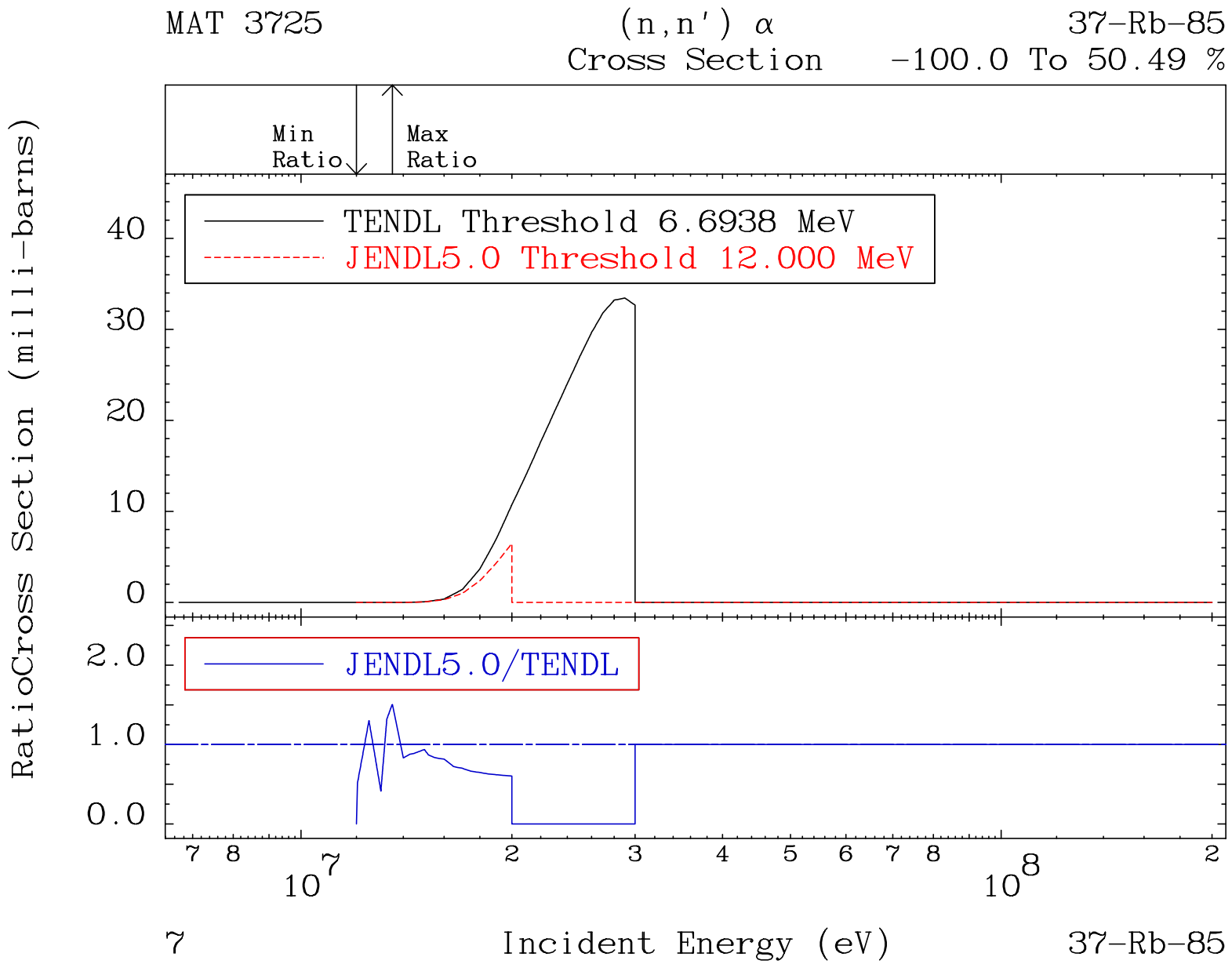

MAT 3725
Elastic
Cross Section
37-Rb-85
-97.78 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
37-Rb-85

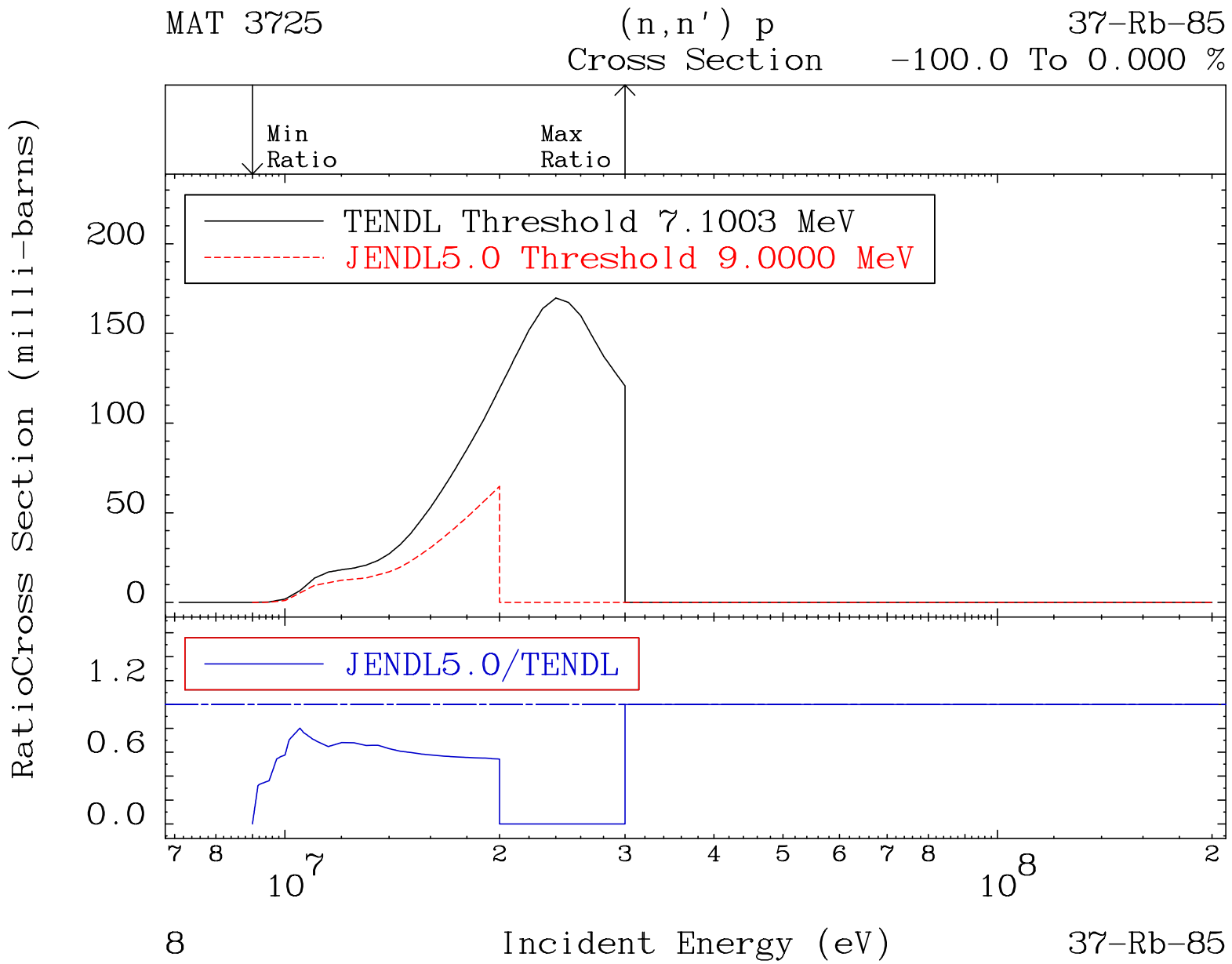

MAT 3725
Inelastic
Cross Section
37-Rb-85
-100.0 To 4.818 %
Max Ratio
Min Ratio
TENDL Threshold 152.99 keV
JENDL5.0 Threshold 152.96 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
37-Rb-85

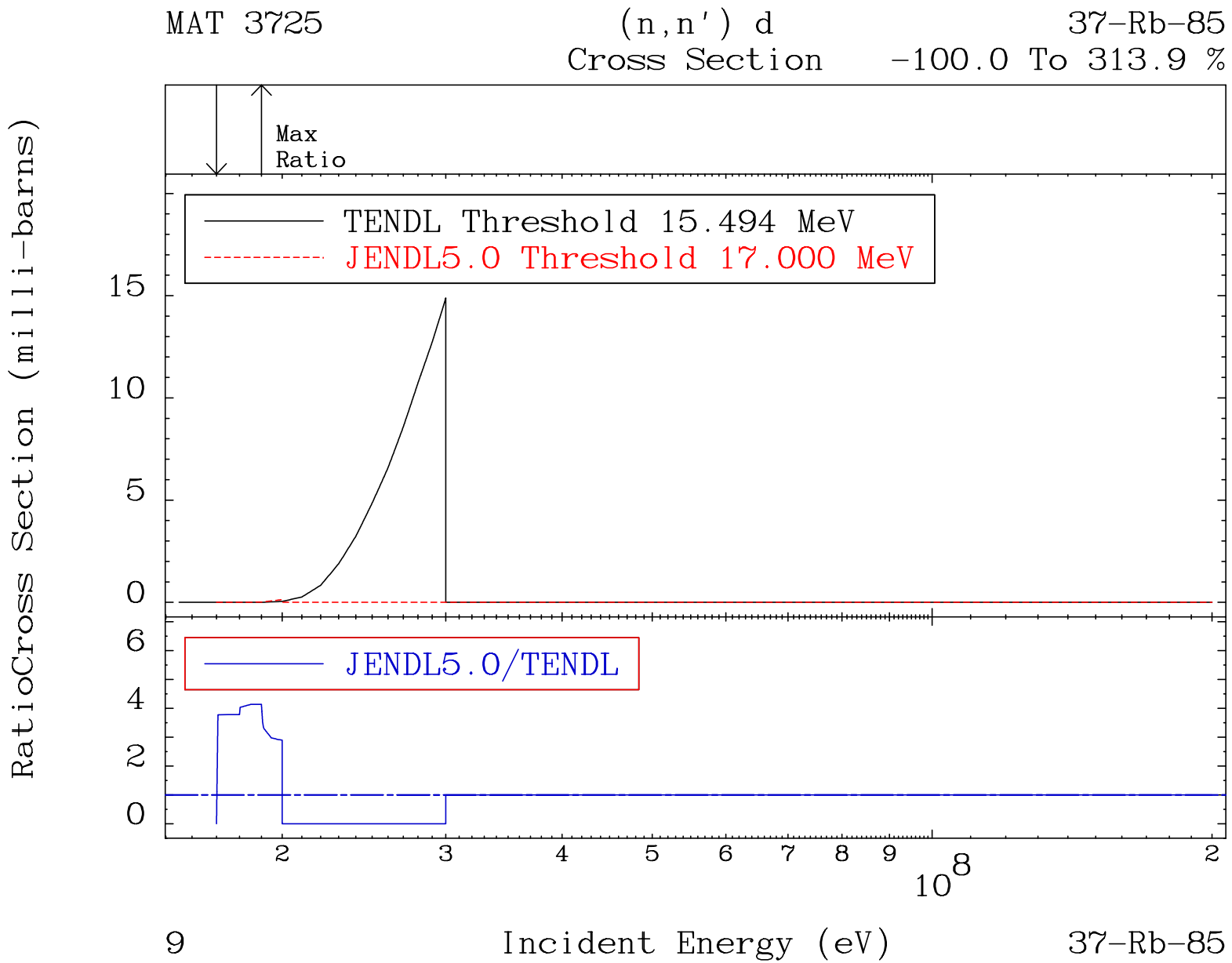

MAT 3725
(n,remainder)
Cross Section
37-Rb-85
-0.505 To 2.585 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
37-Rb-85

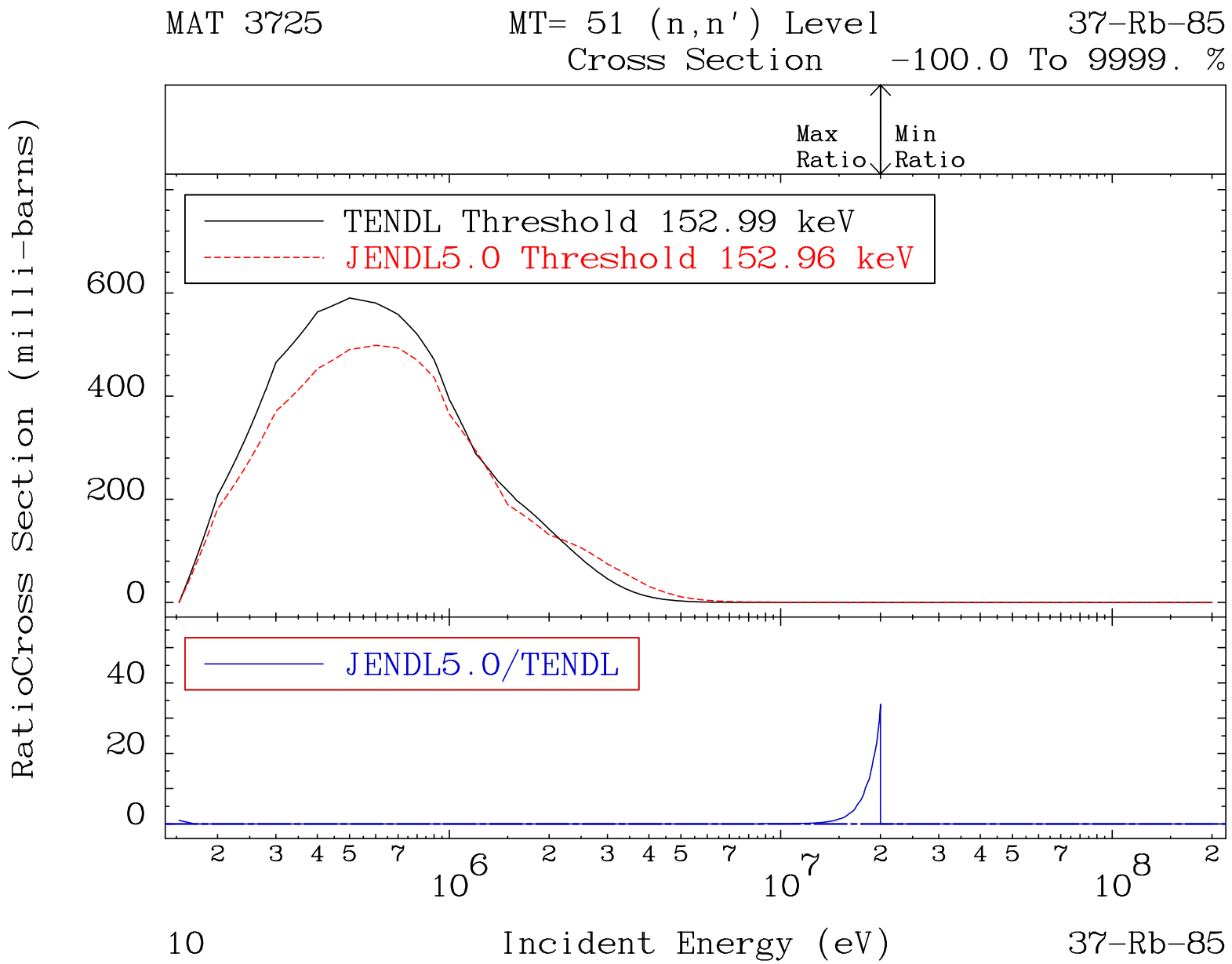

MAT 3725
(n,2n)
Cross Section
37-Rb-85
-100.0 To 26.03 %
Max
Ratio
TENDL Threshold 10.604 MeV
JENDL5.0 Threshold 10.613 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
37-Rb-85

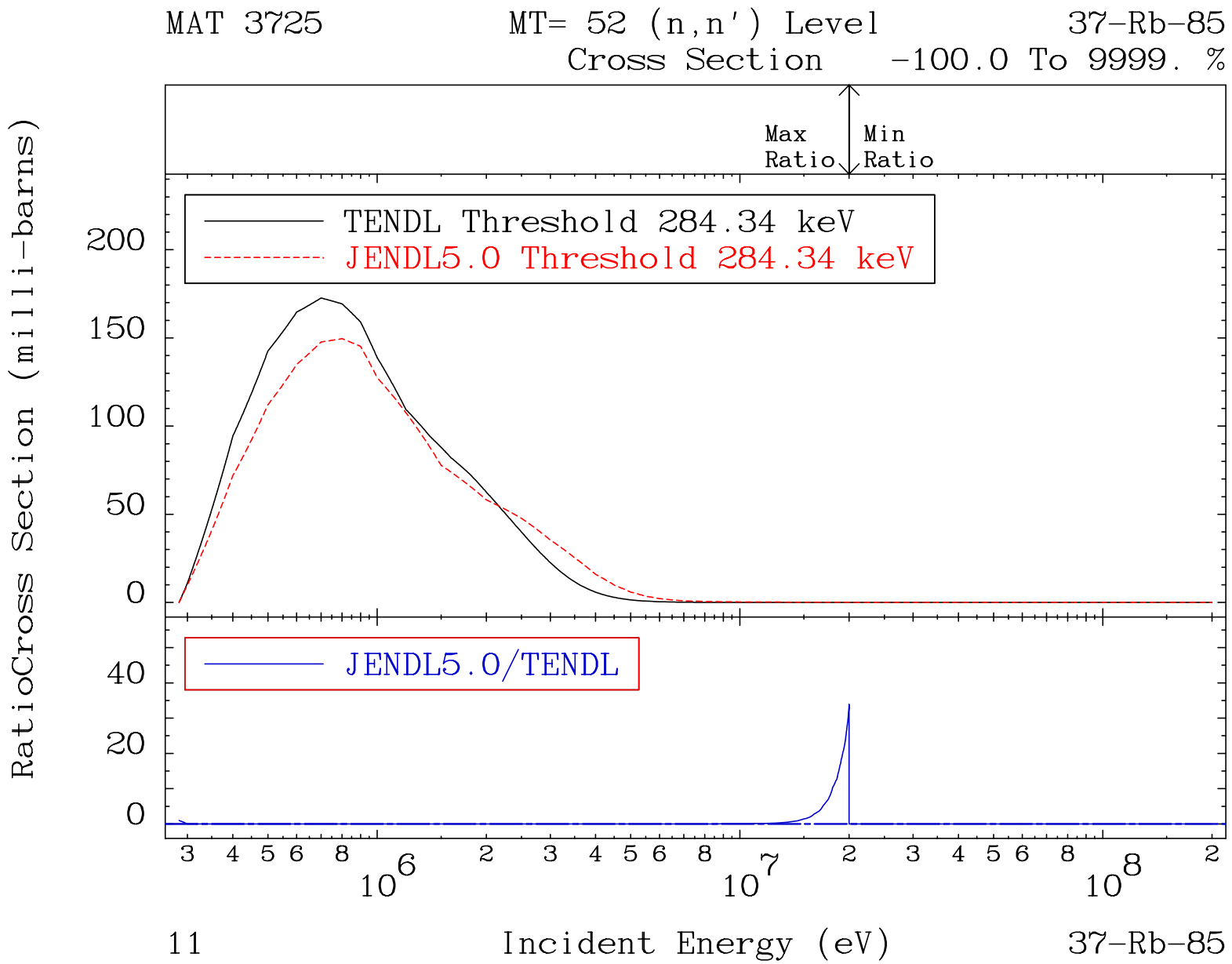

MAT 3725
(n,3n)
37-Rb-85
Cross Section
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 19.468 MeV
JENDL5.0 Threshold 19.464 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
37-Rb-85

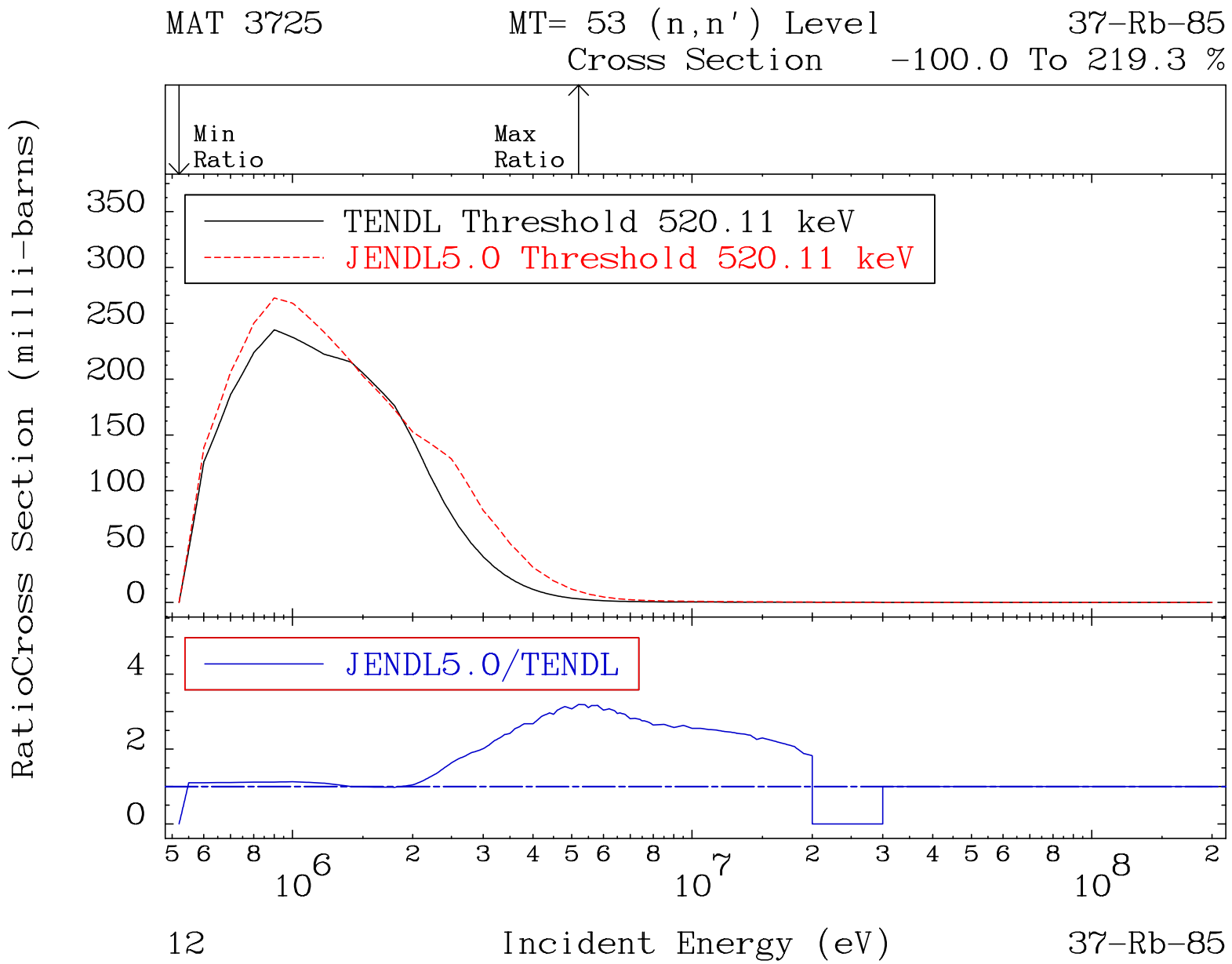

MAT 3725
(n,n') α
Cross Section
37-Rb-85
-100.0 To 50.49 %
Min Ratio
Max Ratio
TENDL Threshold 6.6938 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
37-Rb-85

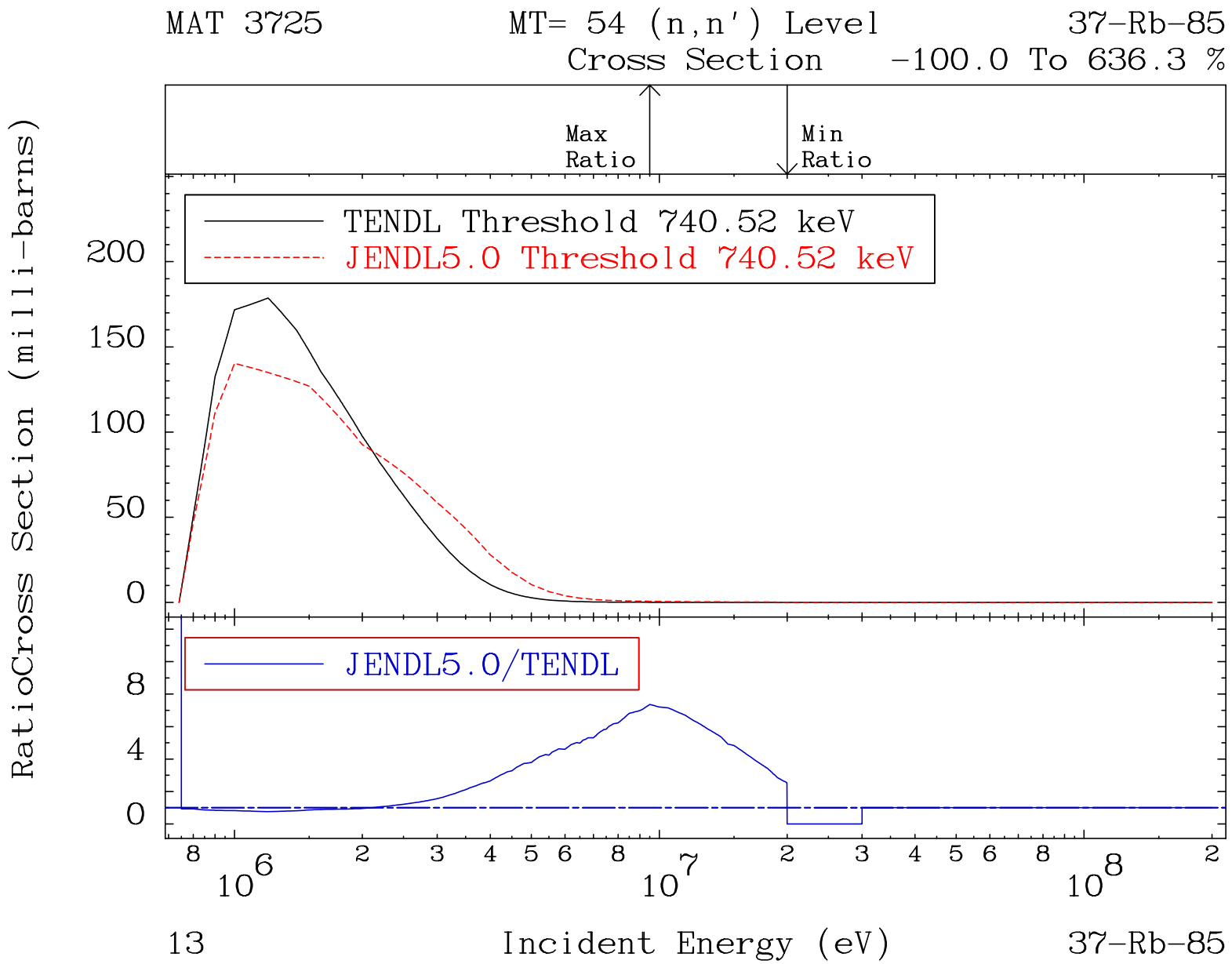

MAT 3725
(n,n') p
Cross Section
37-Rb-85
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 7.1003 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
8
Incident Energy (eV)
37-Rb-85

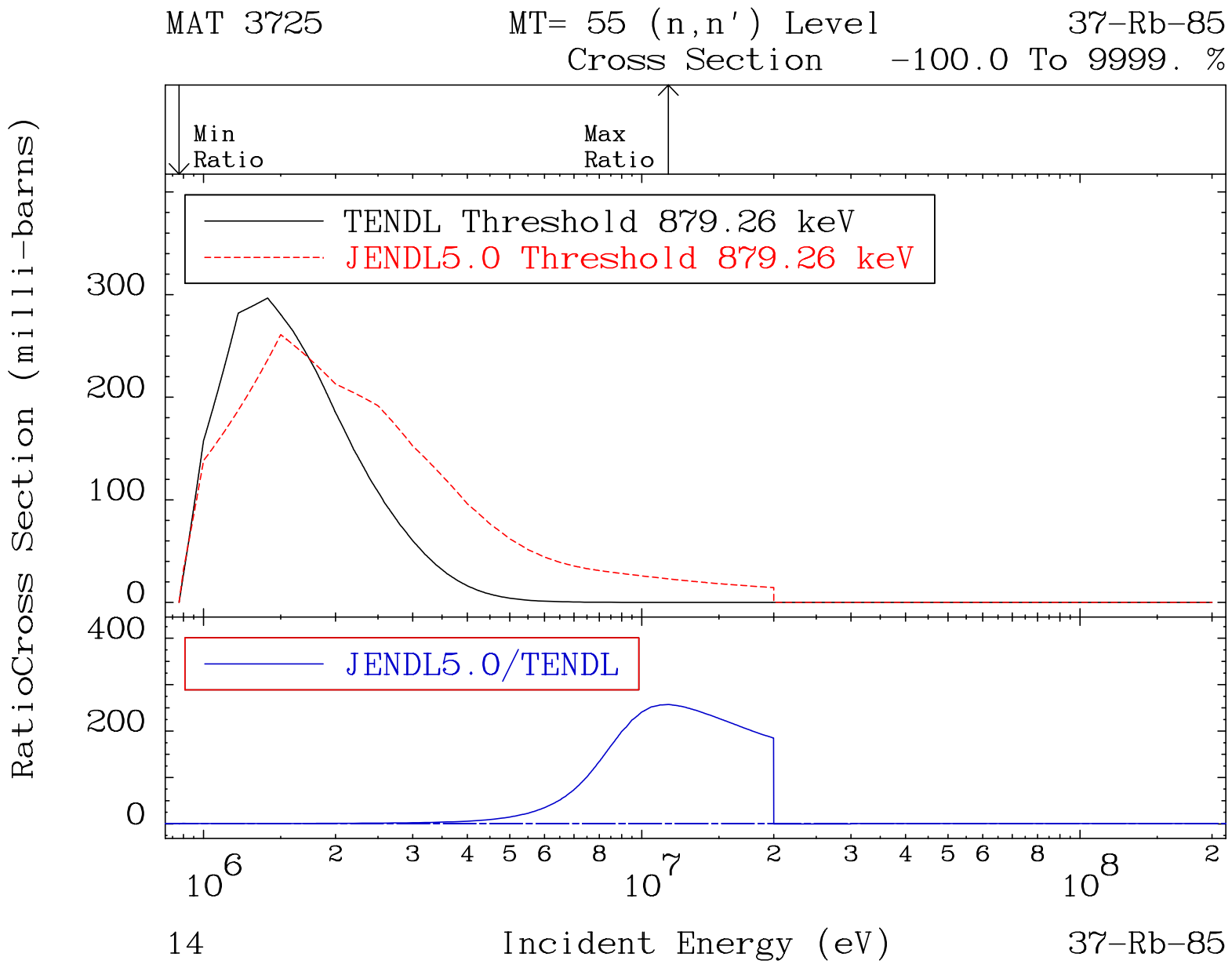

MAT 3725
(n,n') d
Cross Section
37-Rb-85
-100.0 To 313.9 %
Max
Ratio
TENDL Threshold 15.494 MeV
JENDL5.0 Threshold 17.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
37-Rb-85

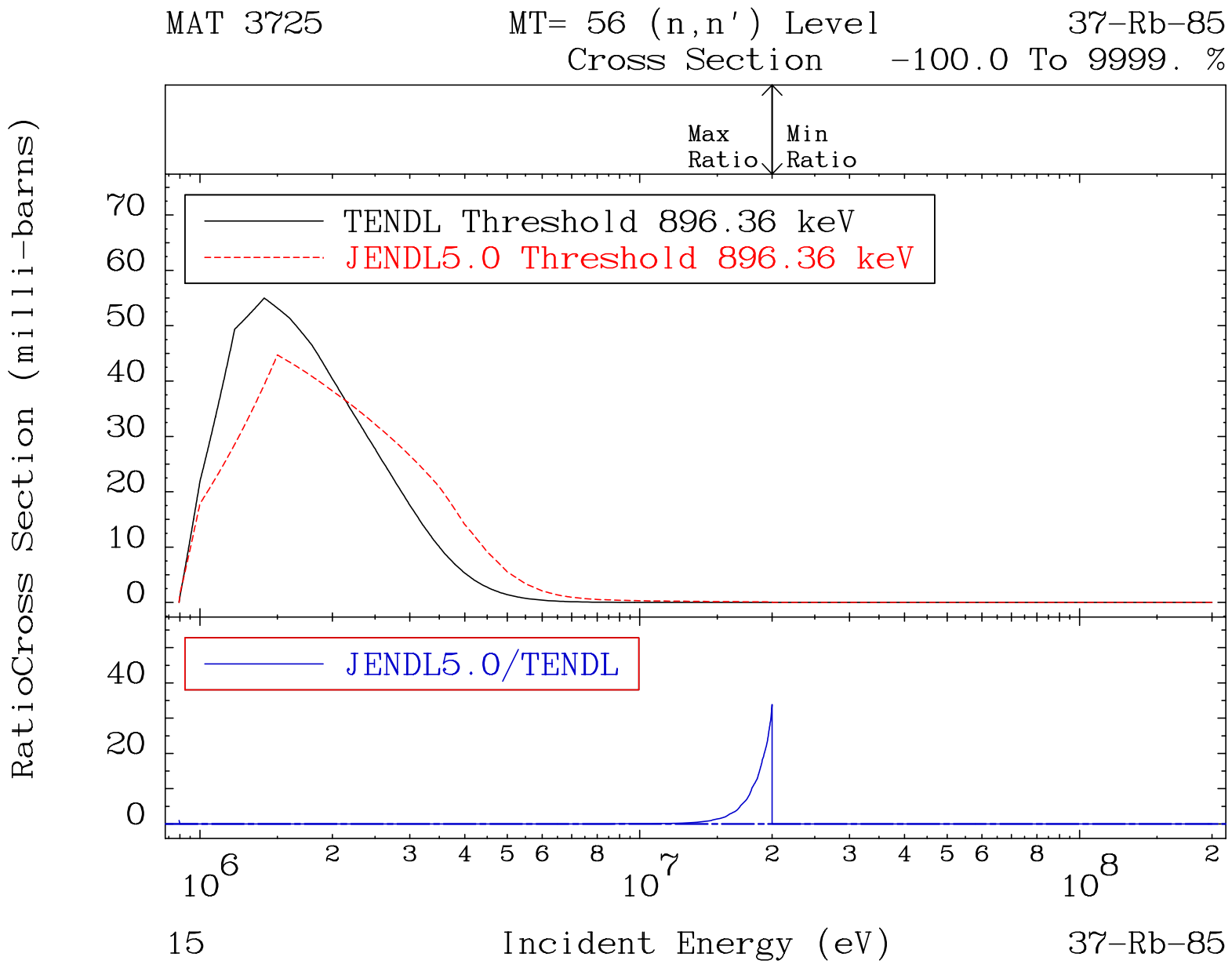

MAT 3725
MT= 51 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 152.99 keV
JENDL5.0 Threshold 152.96 keV
600
400
200
0
JENDL5.0/TENDL
40
20
0
RatioCross Section (milli-barns)
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
10
Incident Energy (eV)
37-Rb-85

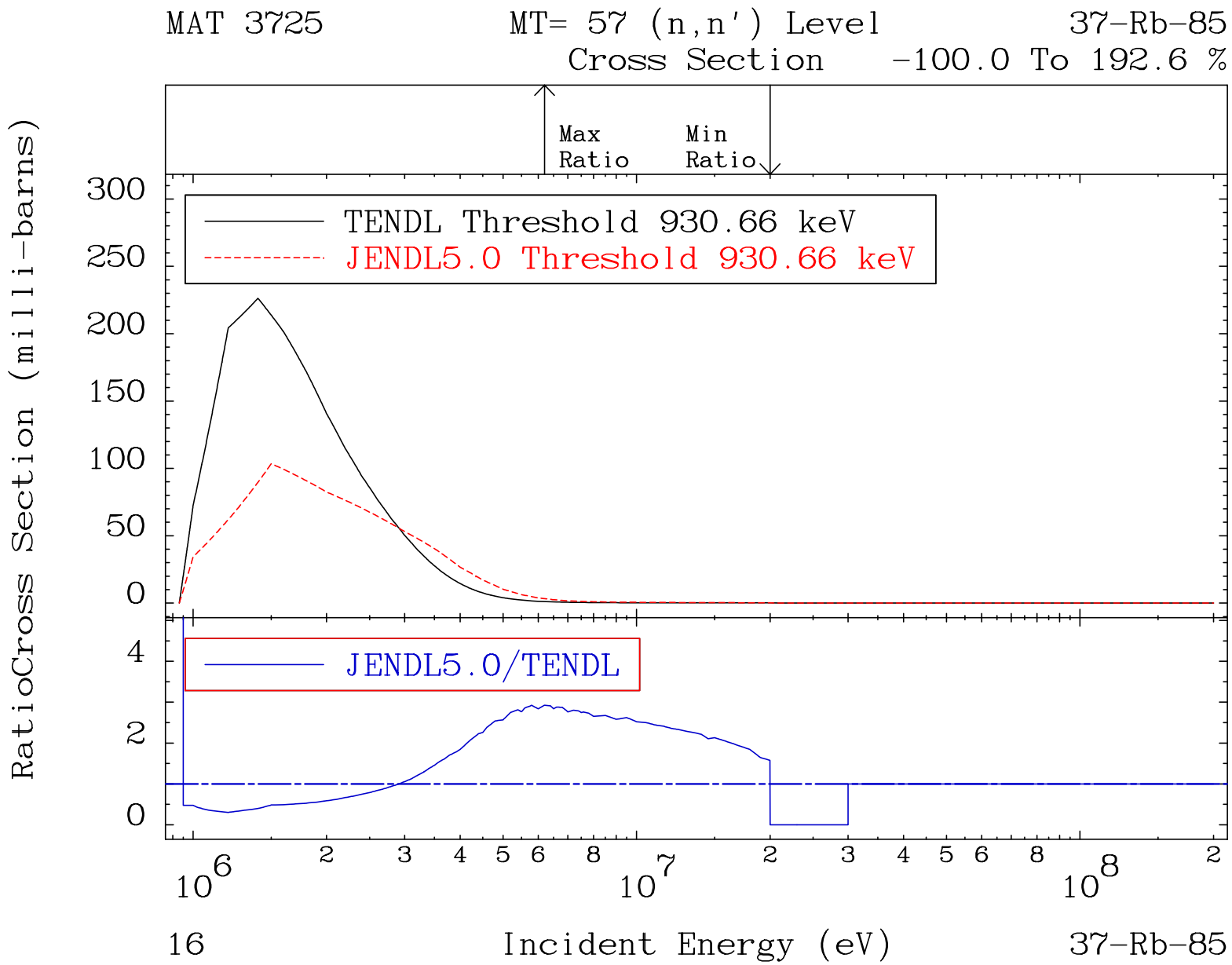

MAT 3725
MT= 52 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 284.34 keV
JENDL5.0 Threshold 284.34 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
40
20
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
37-Rb-85

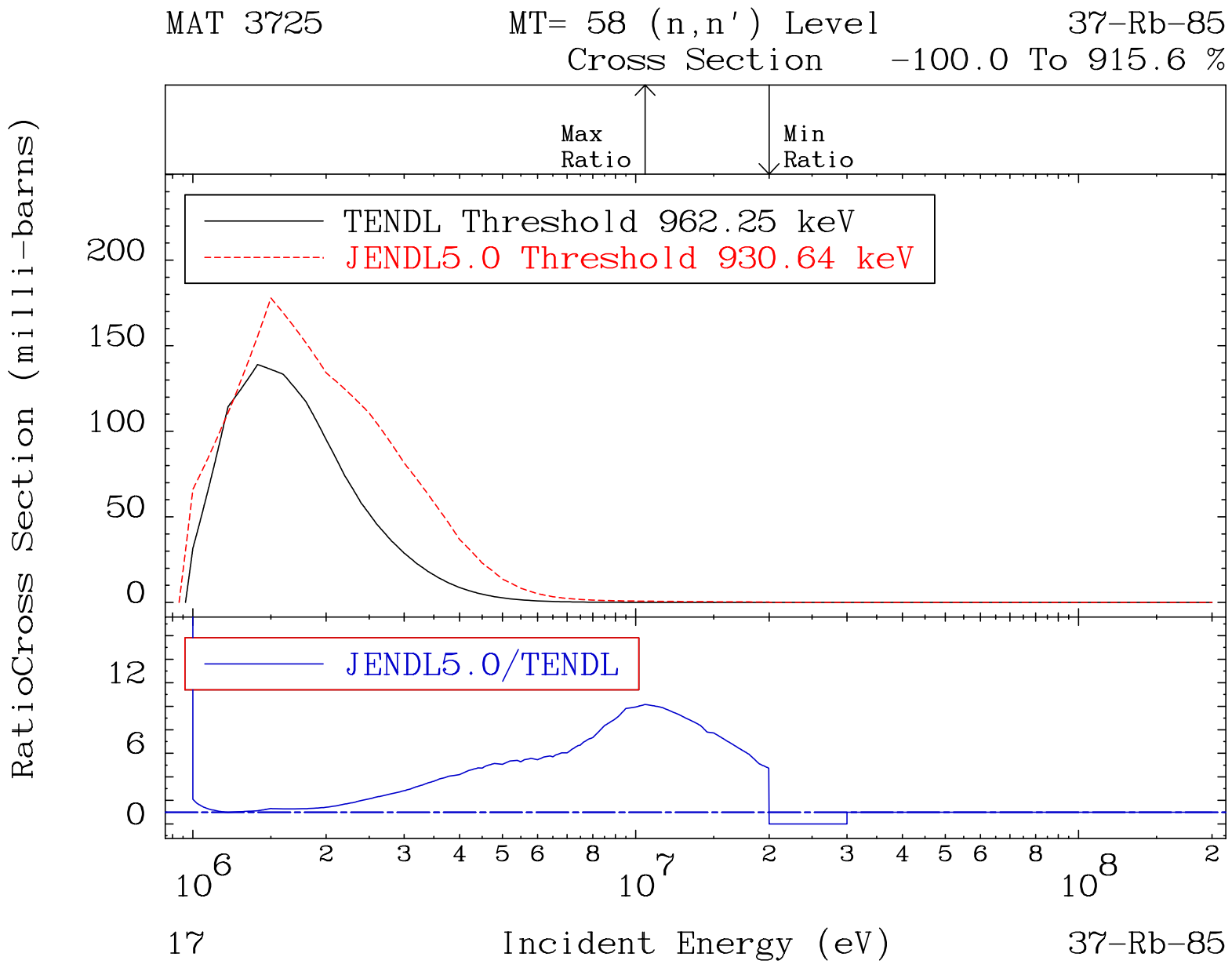

MAT 3725
MT= 53 (n,n') Level
37-Rb-85
Cross Section -100.0 To 219.3 %
Min Ratio
Max Ratio
TENDL Threshold 520.11 keV
JENDL5.0 Threshold 520.11 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
37-Rb-85

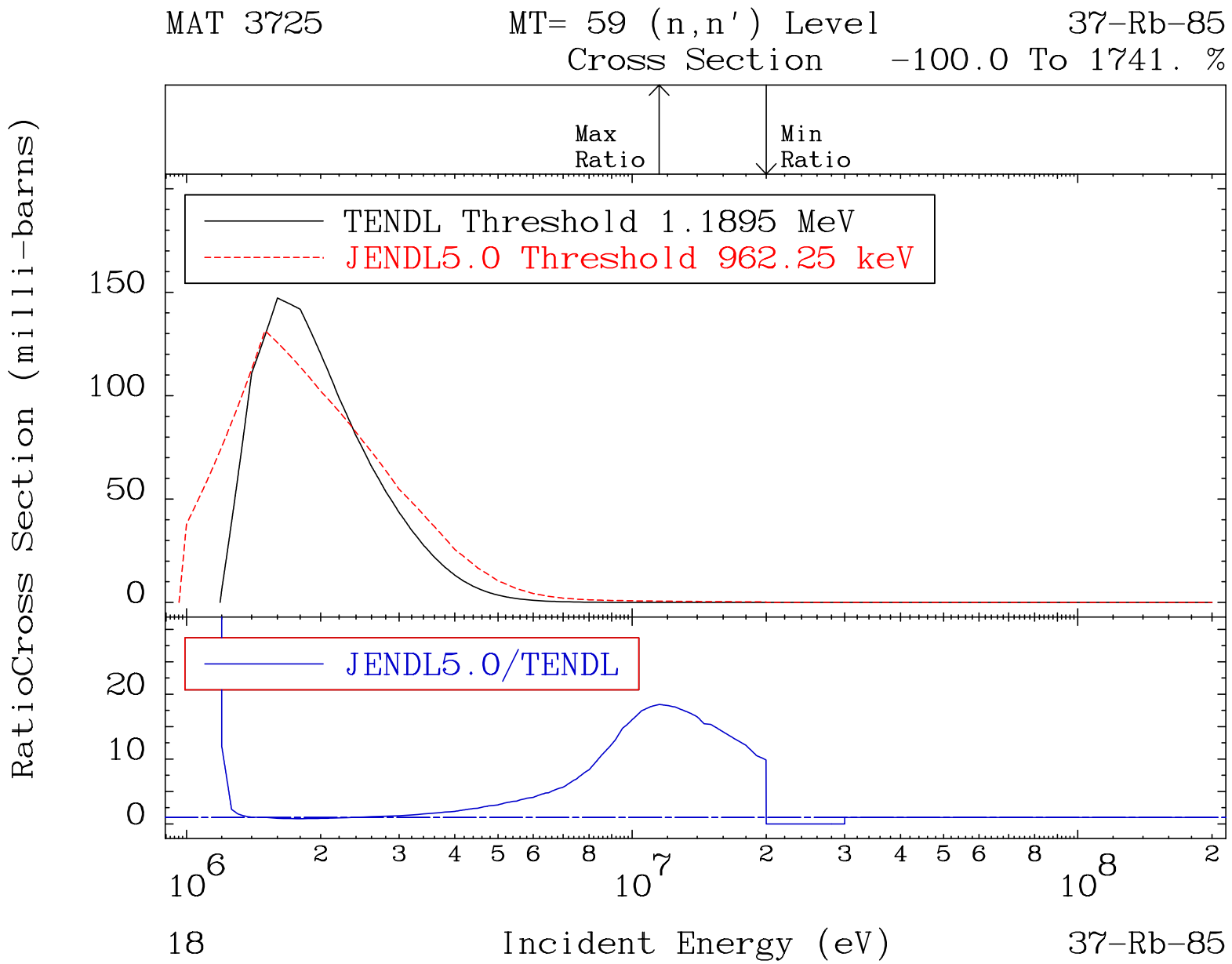

MAT 3725
MT= 54 (n,n') Level
37-Rb-85
Cross Section -100.0 To 636.3 %
Max Ratio
Min Ratio
TENDL Threshold 740.52 keV
JENDL5.0 Threshold 740.52 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
8
4
0
8
2
3
4
5
6
8
10^6
10^7
10^8
13
Incident Energy (eV)
37-Rb-85

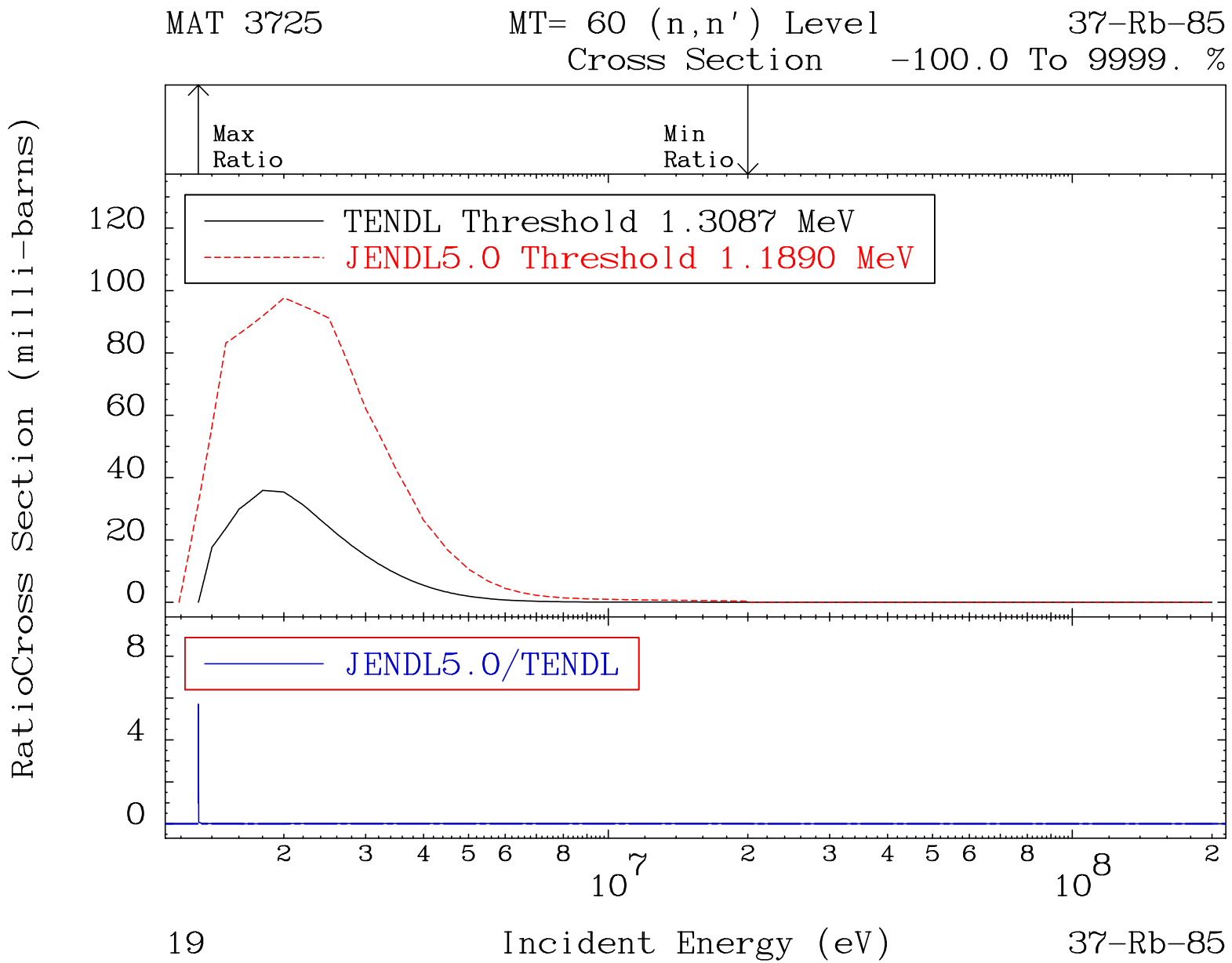

MAT 3725
MT= 55 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 879.26 keV
JENDL5.0 Threshold 879.26 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
400
200
0
10^6
10^7
10^8
2 3 4 5 6 8
14
Incident Energy (eV)
37-Rb-85

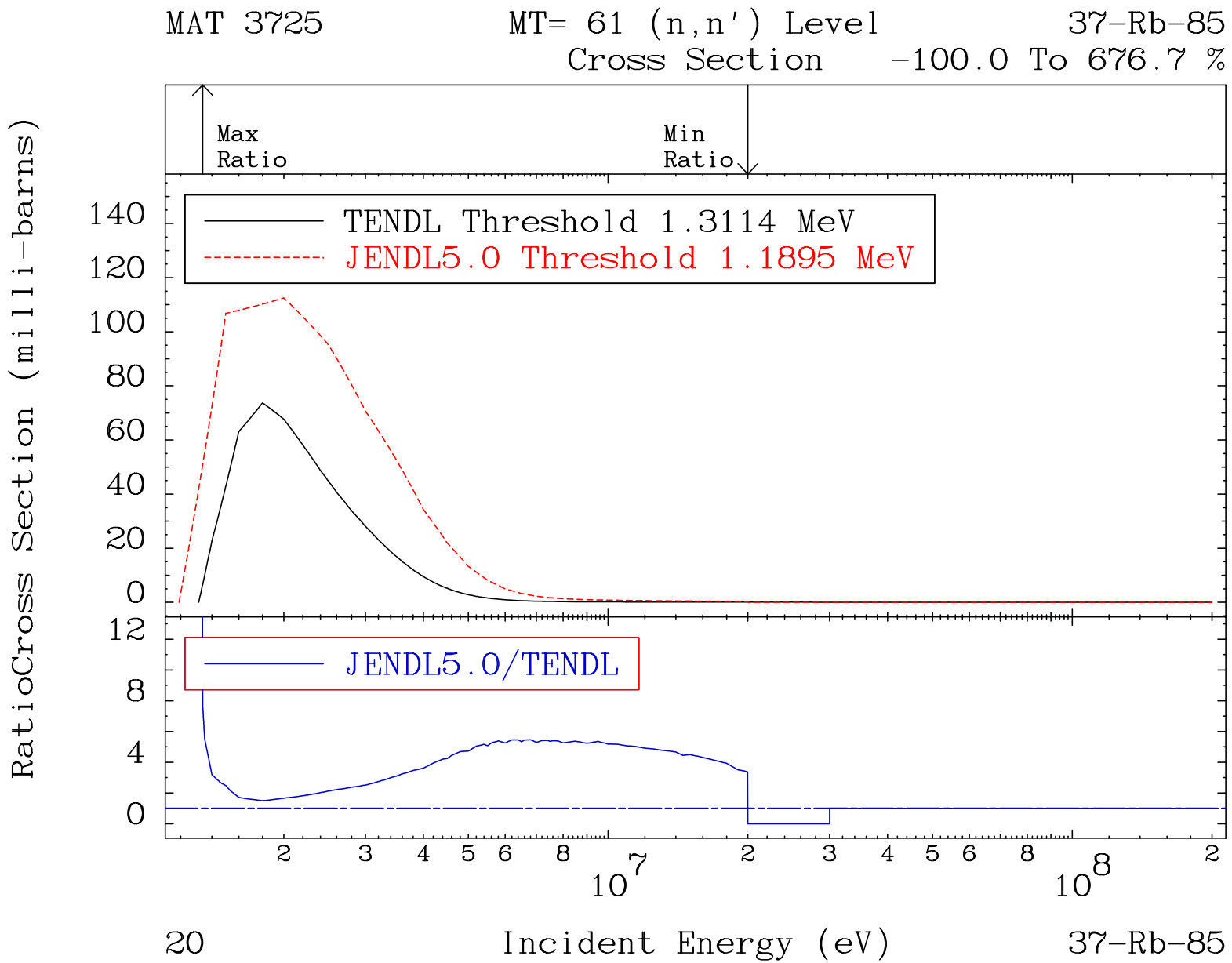

MAT 3725
MT= 56 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 896.36 keV
JENDL5.0 Threshold 896.36 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
15
37-Rb-85

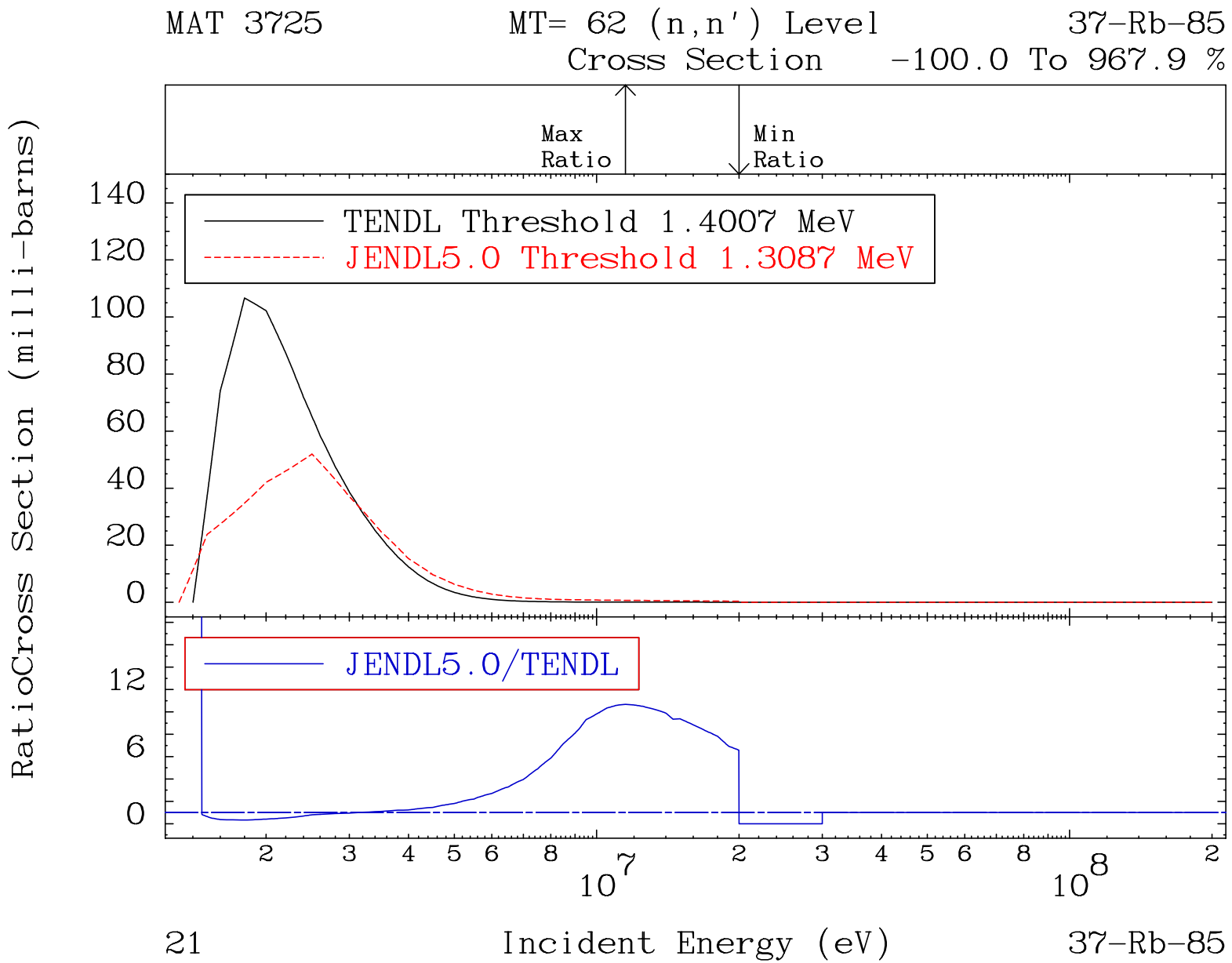

MAT 3725
MT= 57 (n,n') Level
37-Rb-85
Cross Section
-100.0 To 192.6 %
Max Ratio
Min Ratio
TENDL Threshold 930.66 keV
JENDL5.0 Threshold 930.66 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
16
Incident Energy (eV)
37-Rb-85

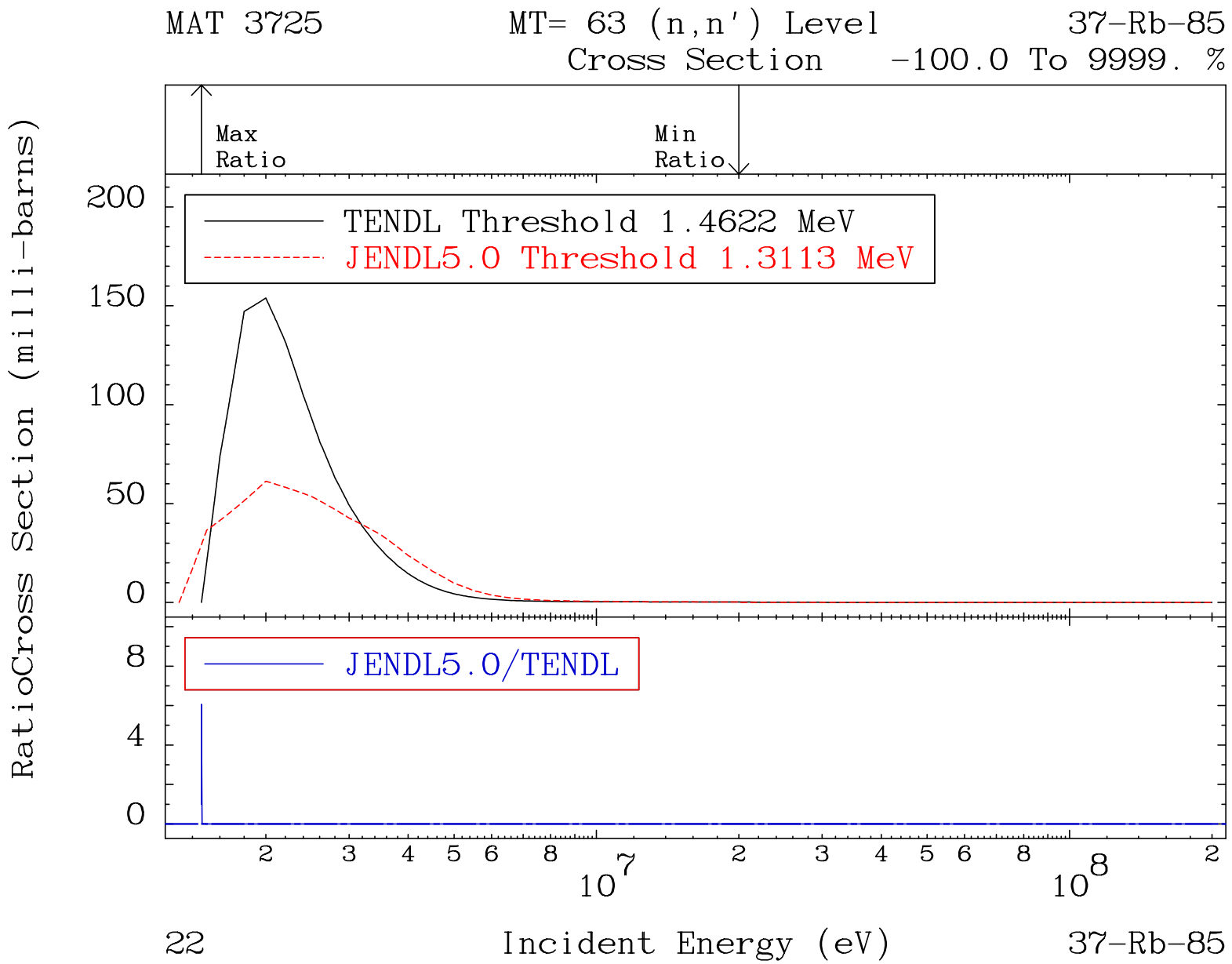

MAT 3725
MT= 58 (n,n') Level
37-Rb-85
Cross Section -100.0 To 915.6 %
Max Ratio
Min Ratio
TENDL Threshold 962.25 keV
JENDL5.0 Threshold 930.64 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
12
6
0
10^6
10^7
10^8
2 3 4 5 6 8
17
Incident Energy (eV)
37-Rb-85

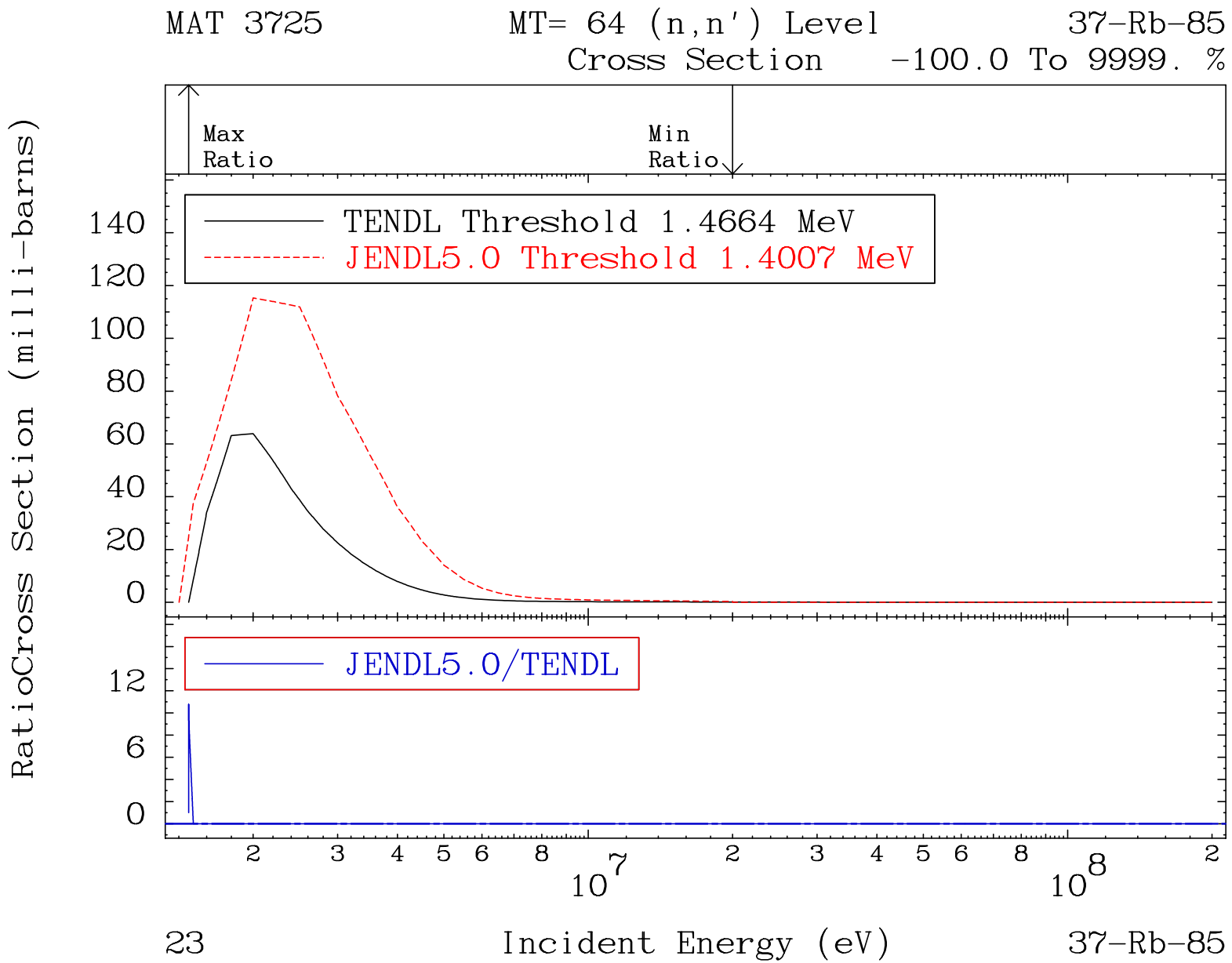

MAT 3725
MT= 59 (n,n') Level
37-Rb-85
Cross Section -100.0 To 1741. %
Max Ratio
Min Ratio
TENDL Threshold 1.1895 MeV
JENDL5.0 Threshold 962.25 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
20
10
0
10^6
10^7
10^8
2 3 4 5 6 8
18
Incident Energy (eV)
37-Rb-85

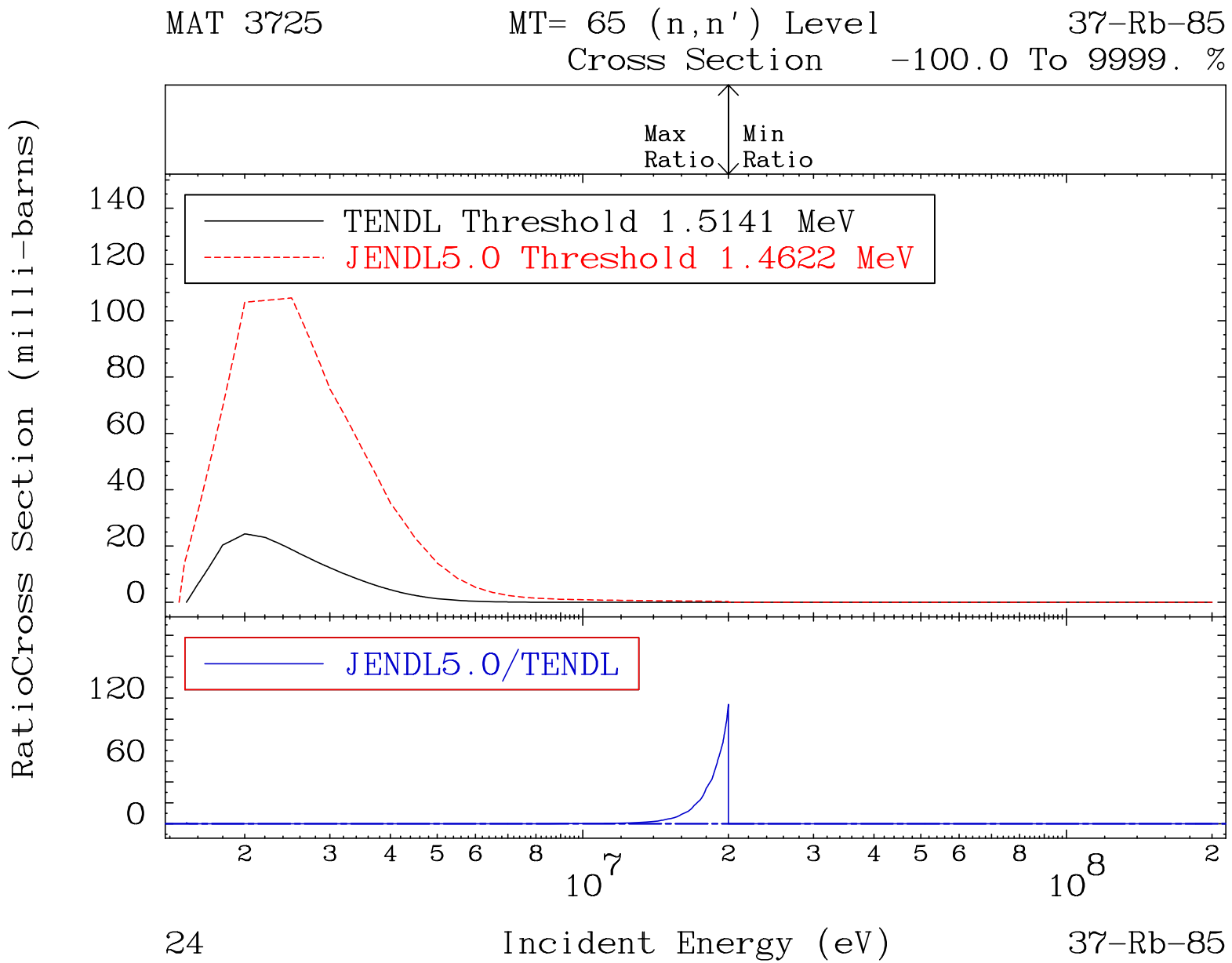

MAT 3725
MT= 60 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.3087 MeV
JENDL5.0 Threshold 1.1890 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
37-Rb-85

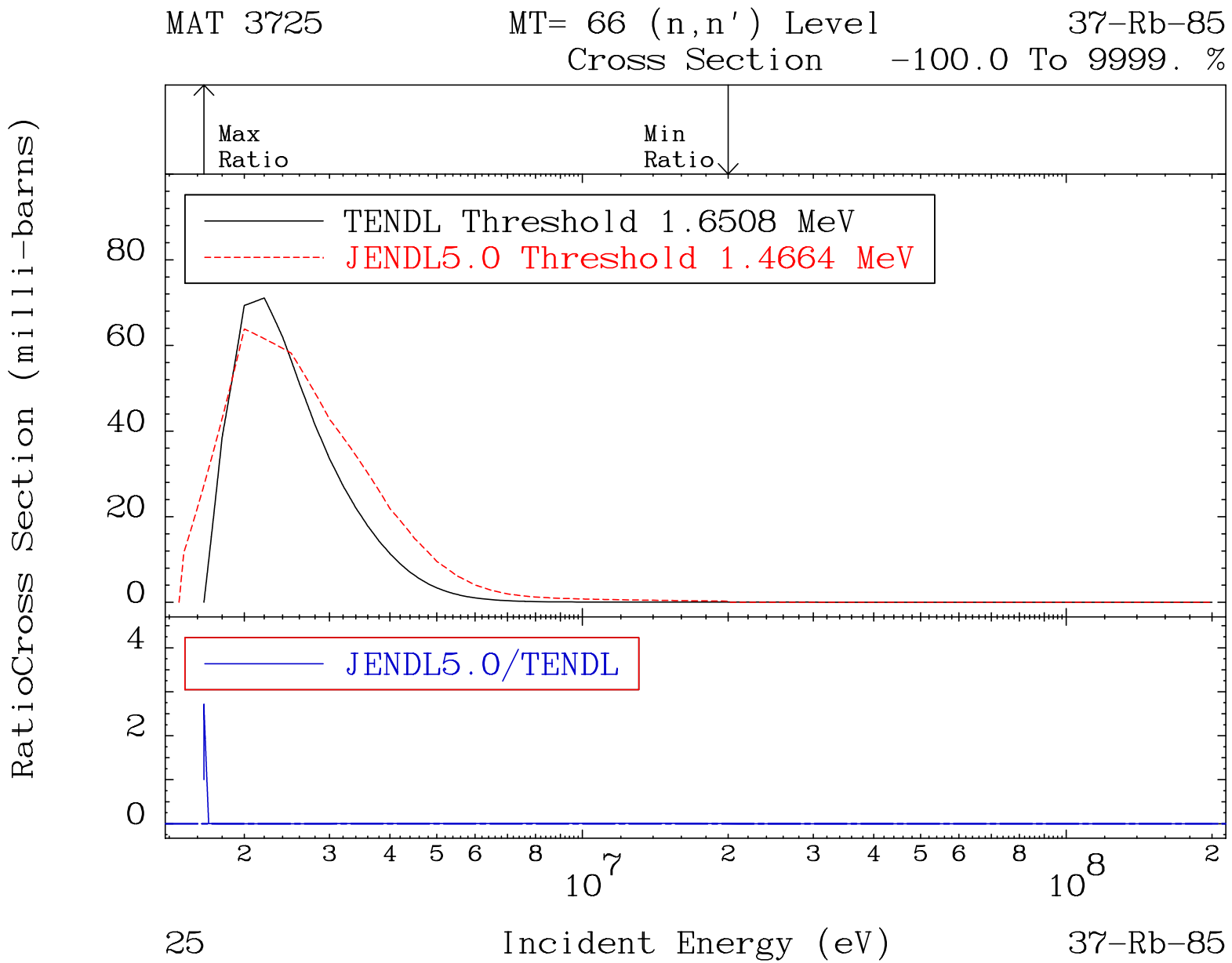

MAT 3725
MT= 61 (n,n') Level
37-Rb-85
Cross Section -100.0 To 676.7 %
Max Ratio
Min Ratio
TENDL Threshold 1.3114 MeV
JENDL5.0 Threshold 1.1895 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
37-Rb-85

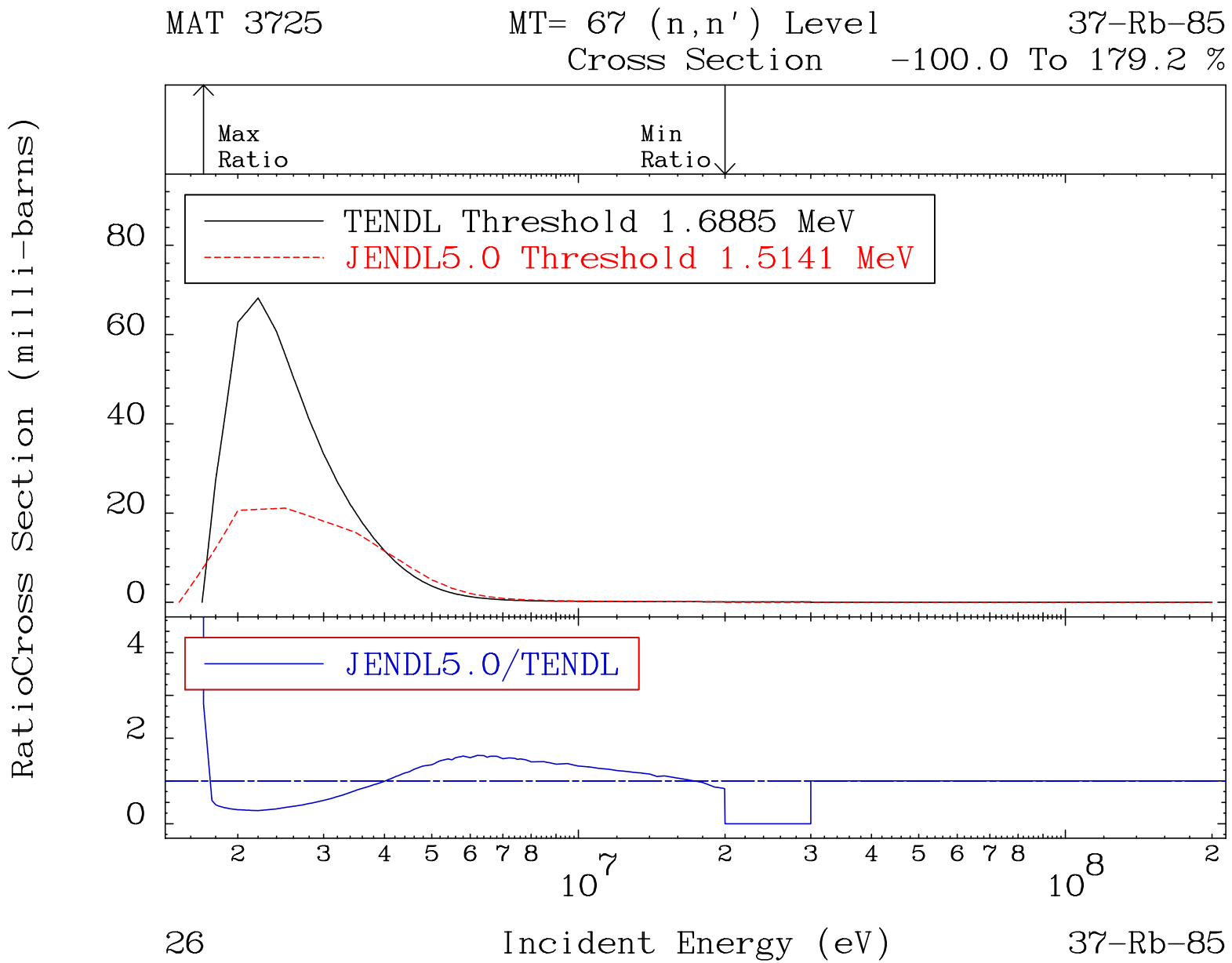

MAT 3725
MT= 62 (n,n') Level
37-Rb-85
Cross Section -100.0 To 967.9 %
Max Ratio
Min Ratio
TENDL Threshold 1.4007 MeV
JENDL5.0 Threshold 1.3087 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
6
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
37-Rb-85

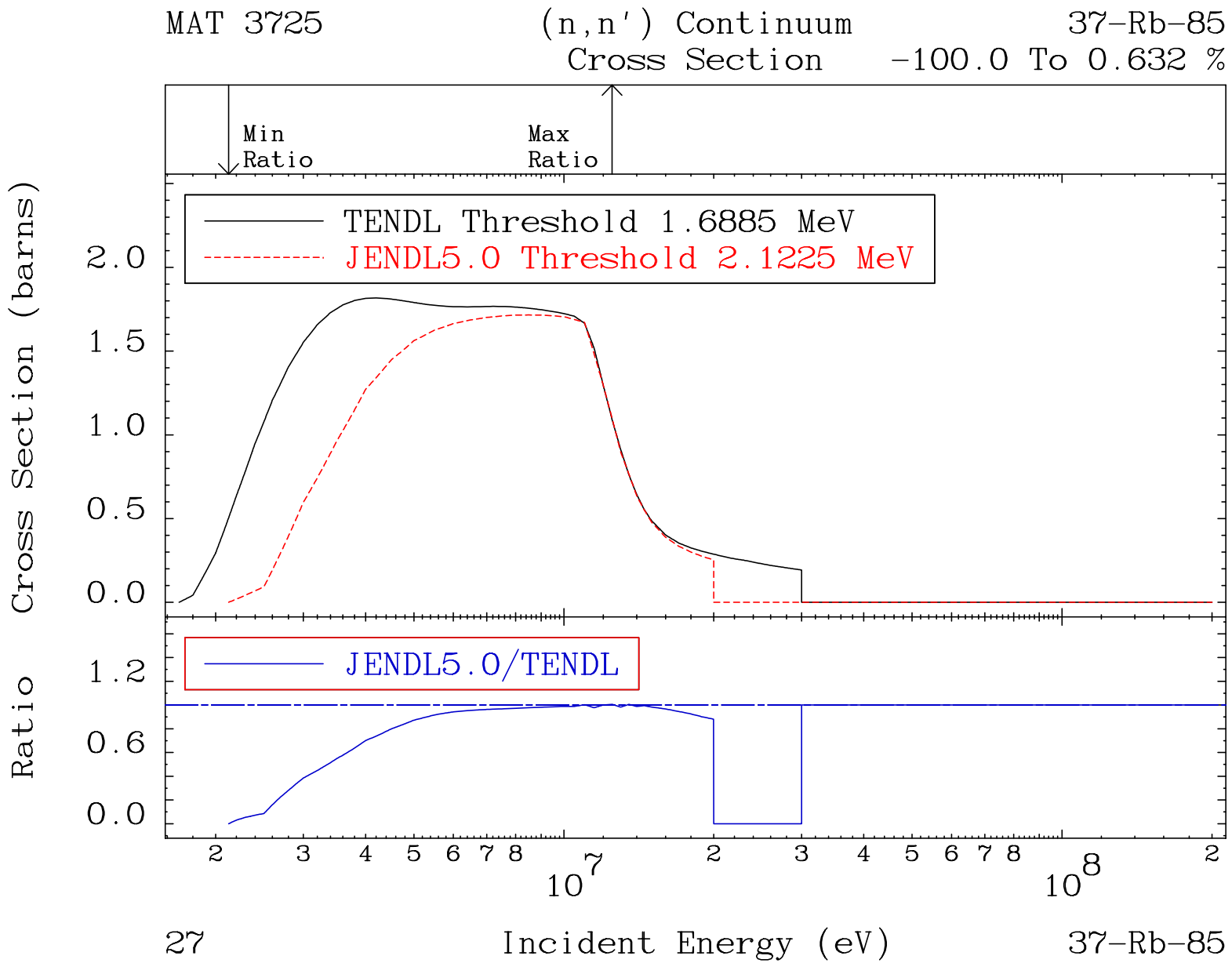

MAT 3725
MT= 63 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4622 MeV
JENDL5.0 Threshold 1.3113 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
37-Rb-85

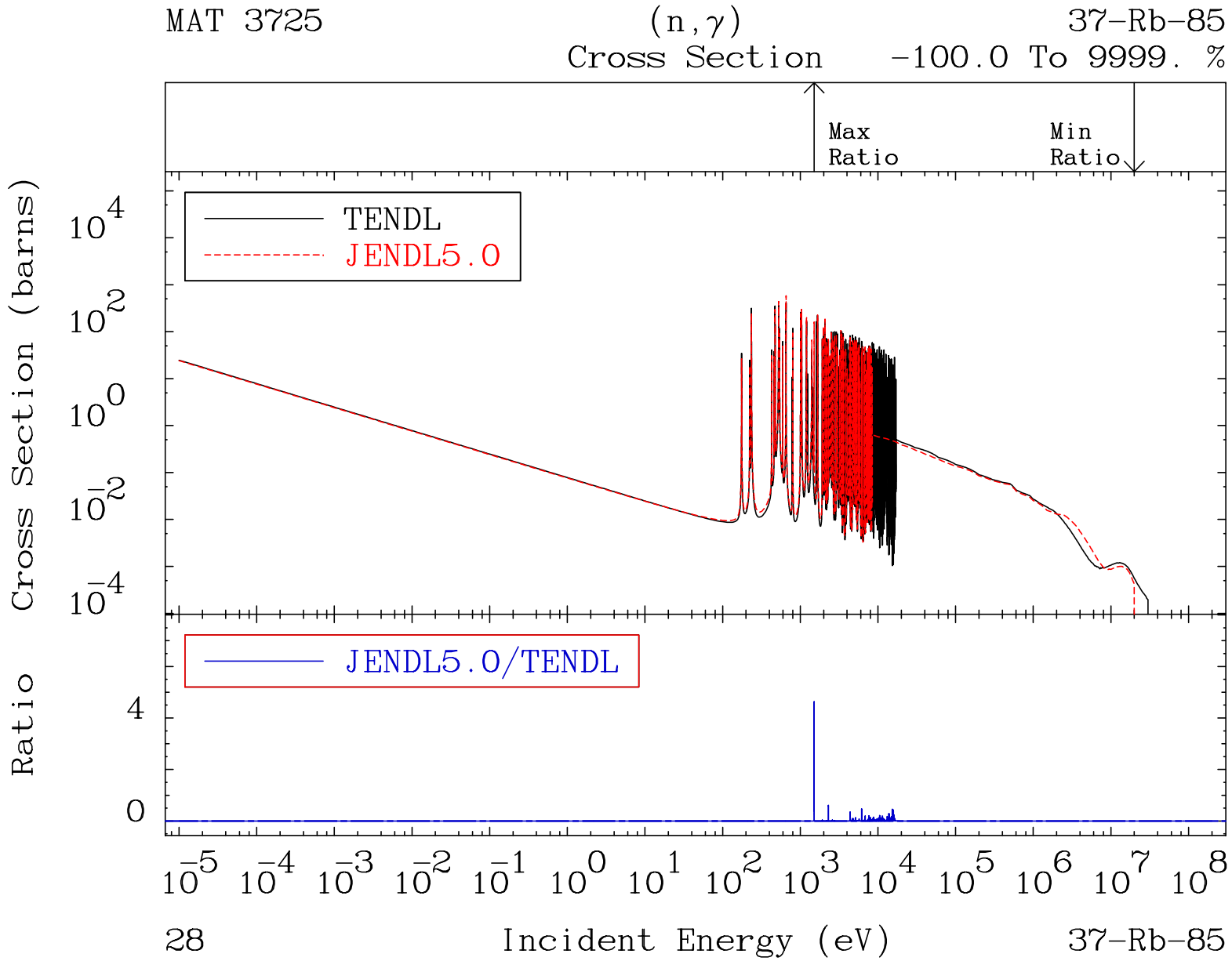

MAT 3725
MT= 64 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.4664 MeV
JENDL5.0 Threshold 1.4007 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
6
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
37-Rb-85

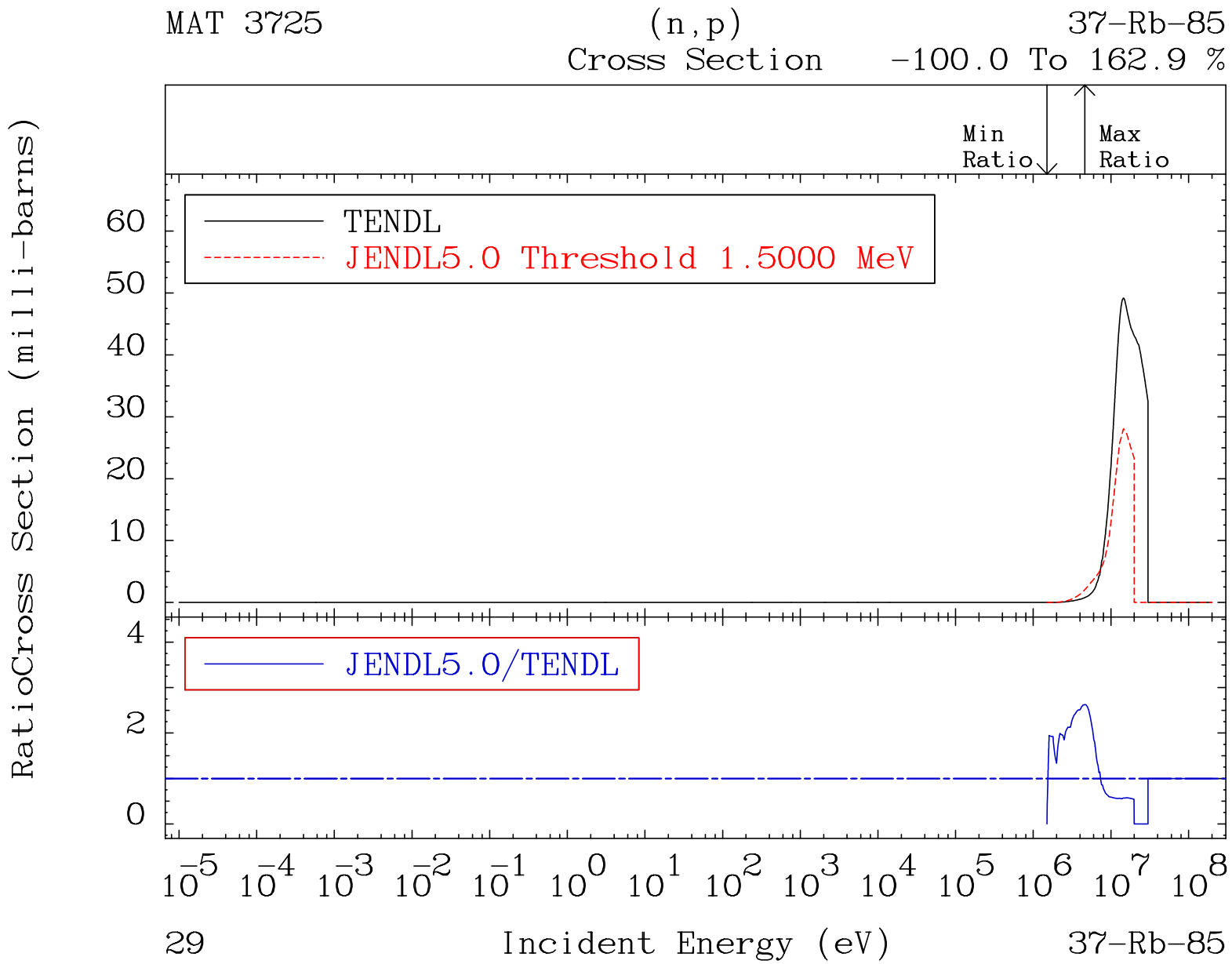

MAT 3725
MT= 65 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5141 MeV
JENDL5.0 Threshold 1.4622 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
120
60
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
37-Rb-85

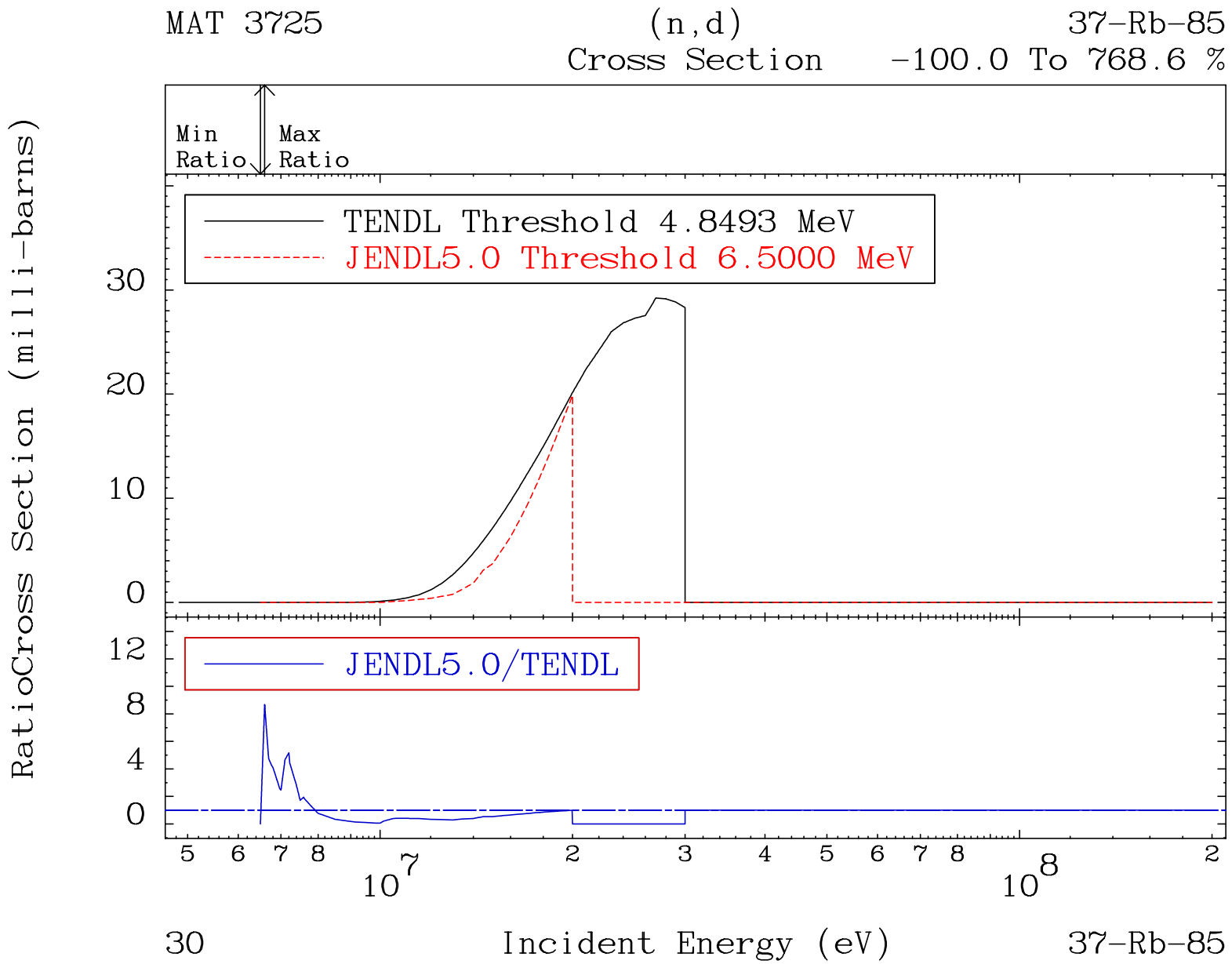

MAT 3725
MT= 66 (n,n') Level
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6508 MeV
JENDL5.0 Threshold 1.4664 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
25
Incident Energy (eV)
37-Rb-85

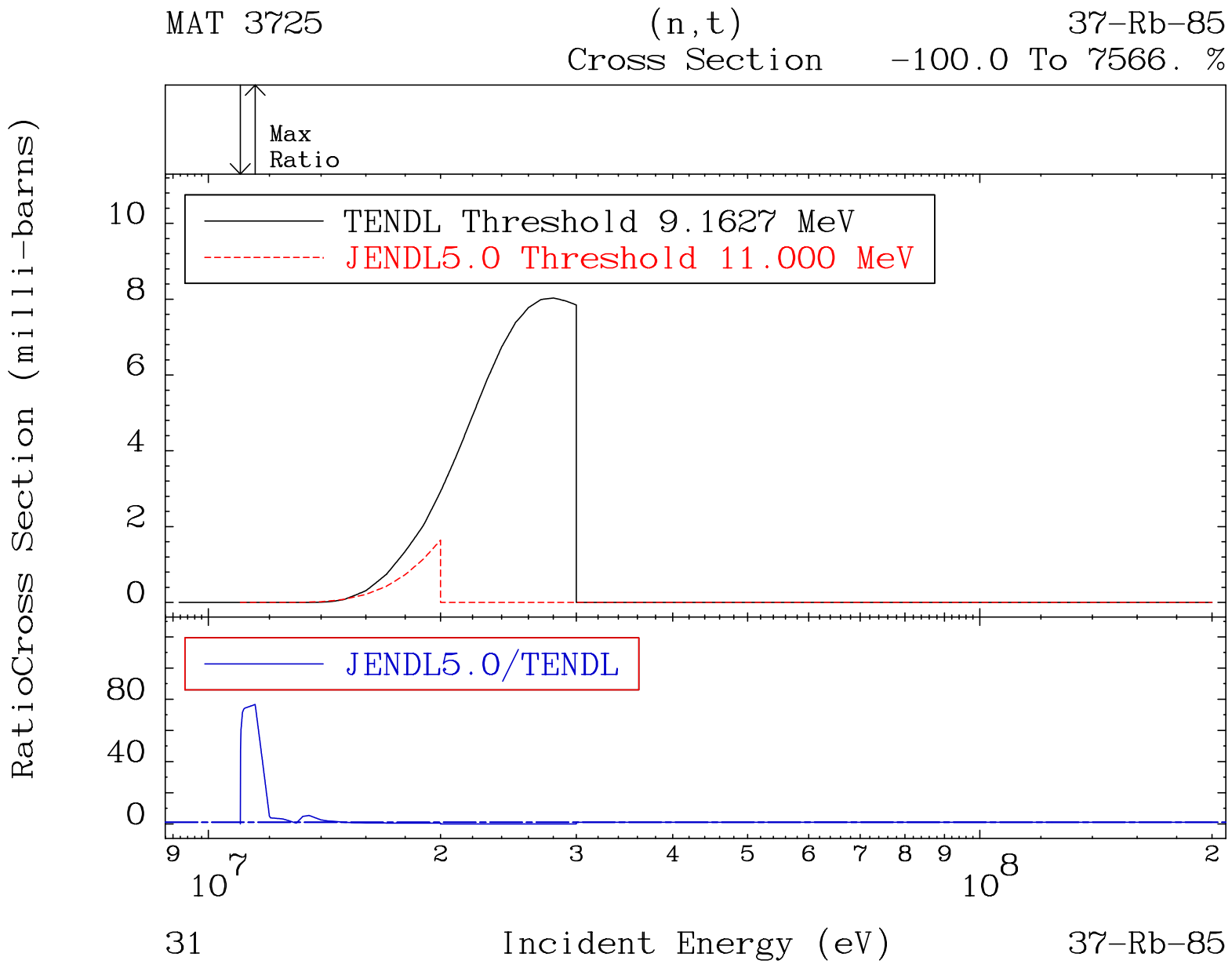

MAT 3725
MT= 67 (n,n') Level
37-Rb-85
Cross Section -100.0 To 179.2 %
Max Ratio
Min Ratio
TENDL Threshold 1.6885 MeV
JENDL5.0 Threshold 1.5141 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
37-Rb-85

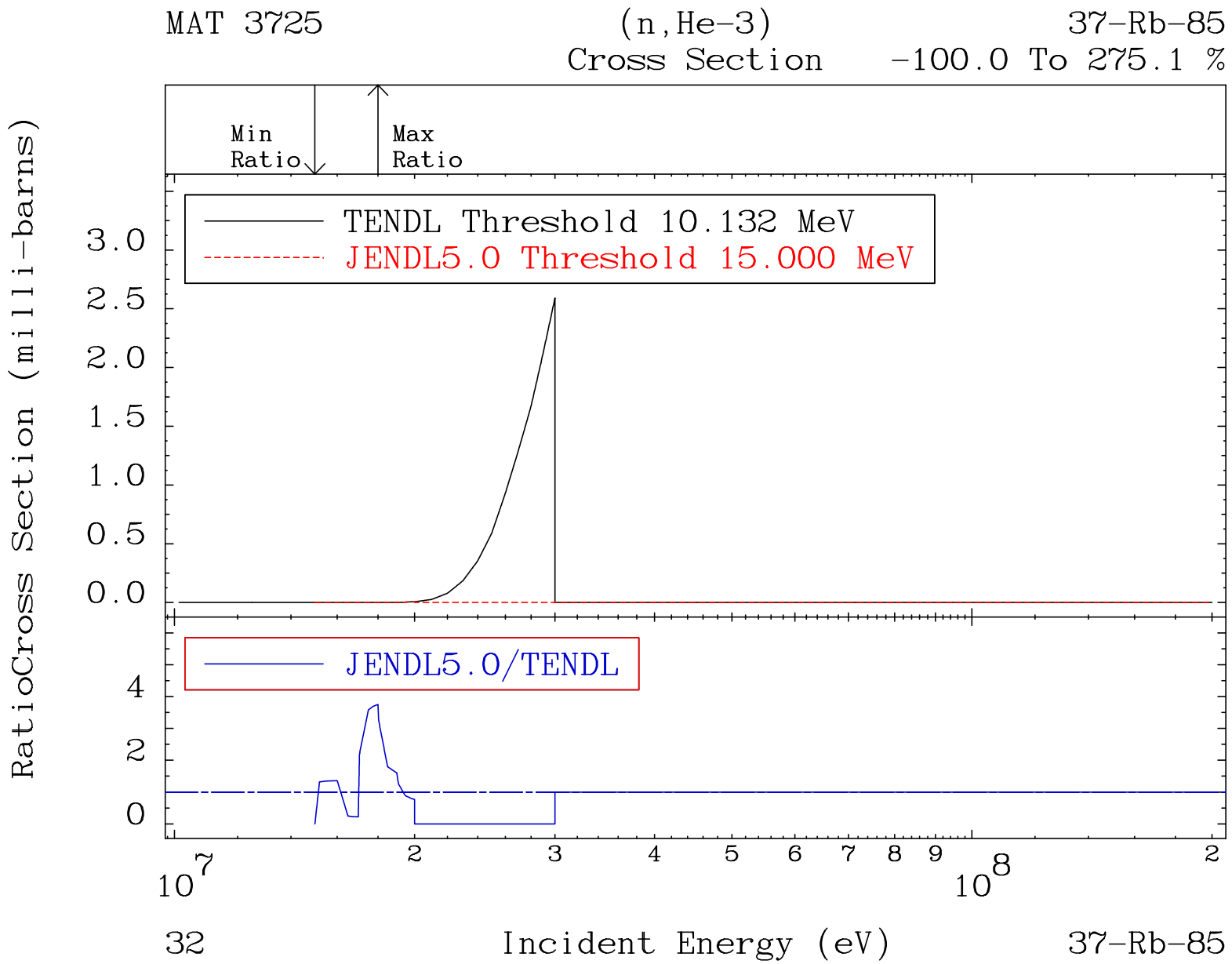

MAT 3725
(n,n') Continuum
Cross Section
37-Rb-85
-100.0 To 0.632 %
Min Ratio
Max Ratio
TENDL Threshold 1.6885 MeV
JENDL5.0 Threshold 2.1225 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
37-Rb-85

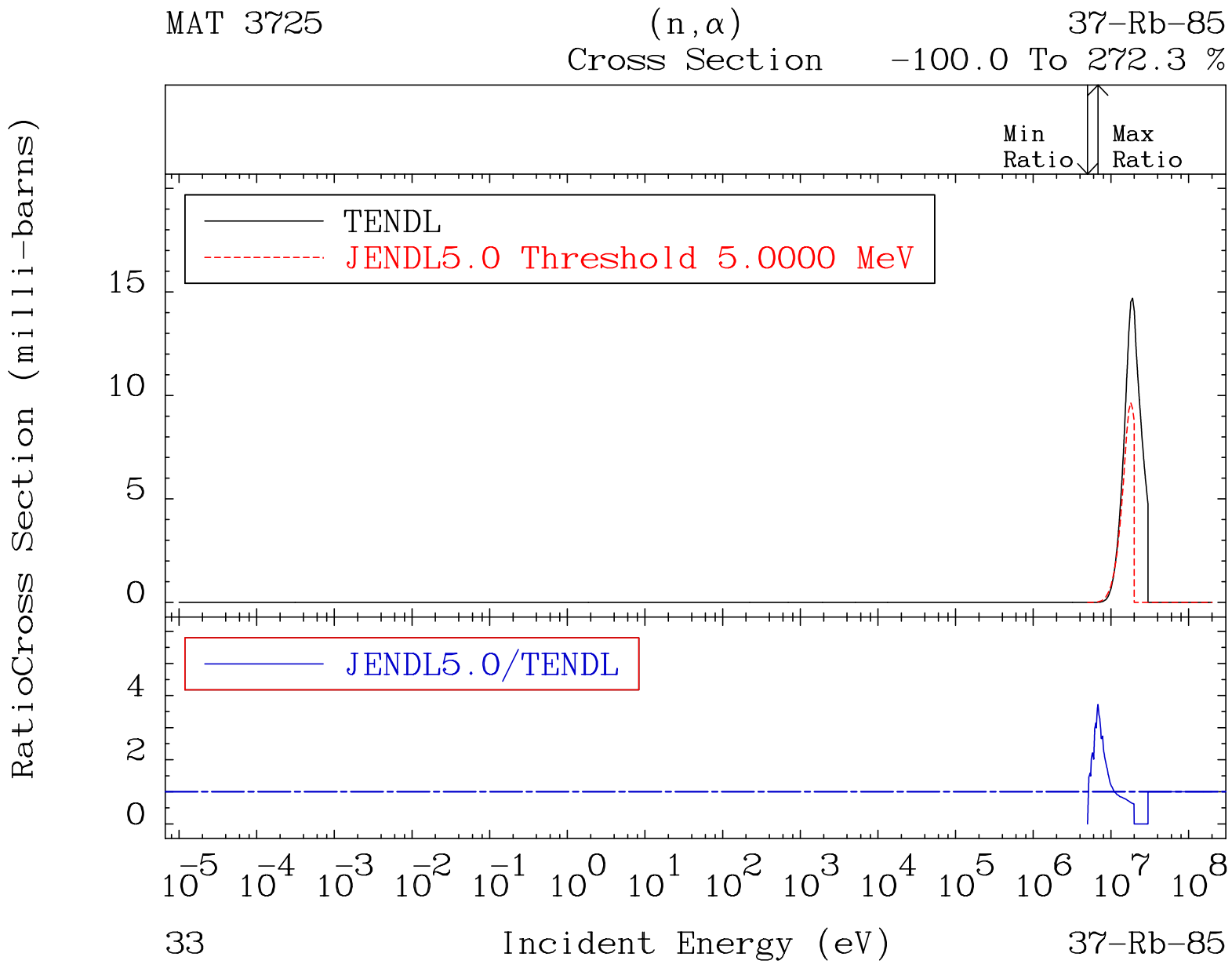

MAT 3725
(n,γ)
Cross Section
37-Rb-85
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
28
37-Rb-85

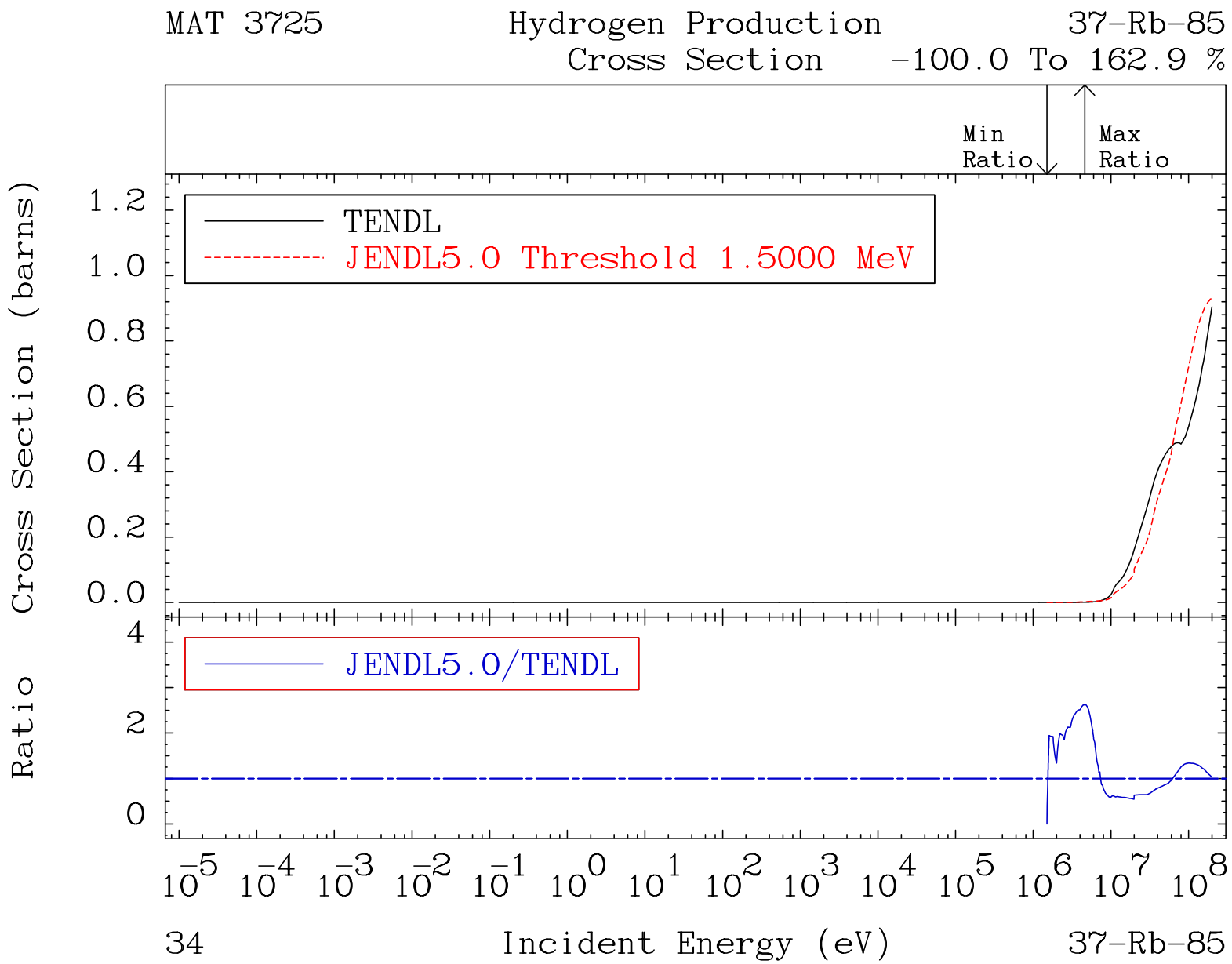

MAT 3725
(n,p)
37-Rb-85
Cross Section
-100.0 To 162.9 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 1.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
37-Rb-85

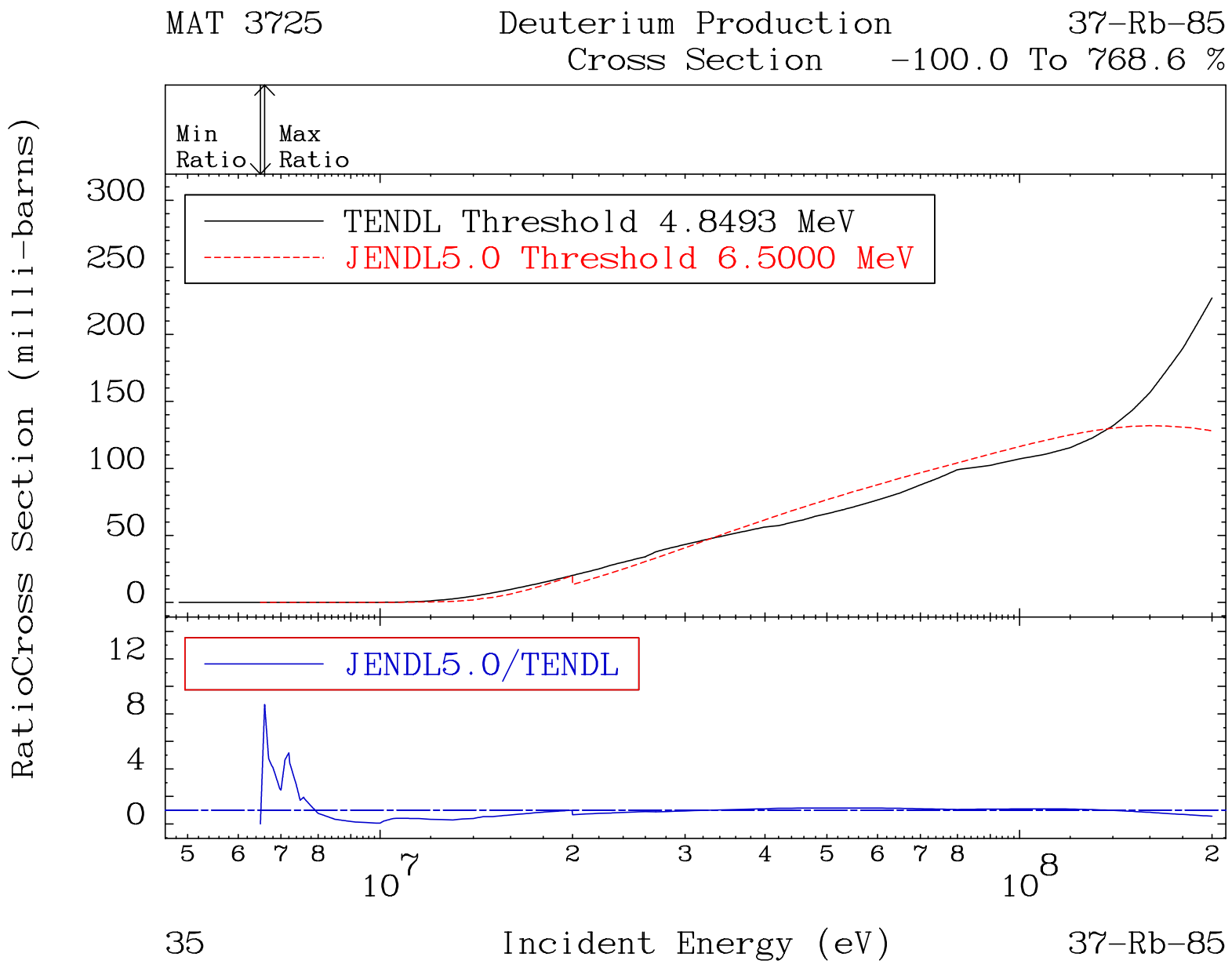

MAT 3725
(n,d)
37-Rb-85
Cross Section
-100.0 To 768.6 %
Min Ratio
Max Ratio
TENDL Threshold 4.8493 MeV
JENDL5.0 Threshold 6.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
12
8
4
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
37-Rb-85

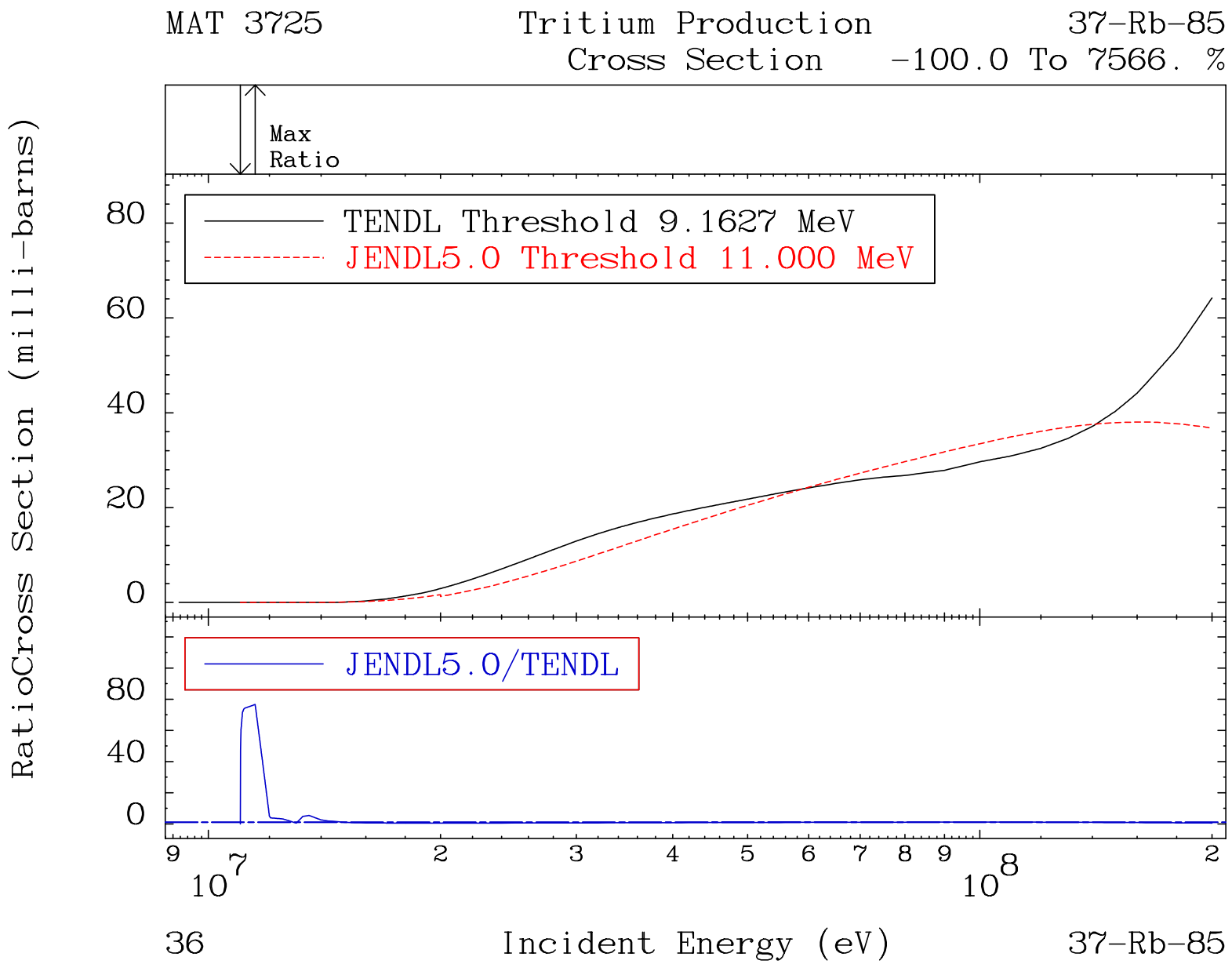

MAT 3725
(n,t)
37-Rb-85
Cross Section
-100.0 To 7566. %
Max
Ratio
TENDL Threshold 9.1627 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
80
40
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
31
Incident Energy (eV)
37-Rb-85

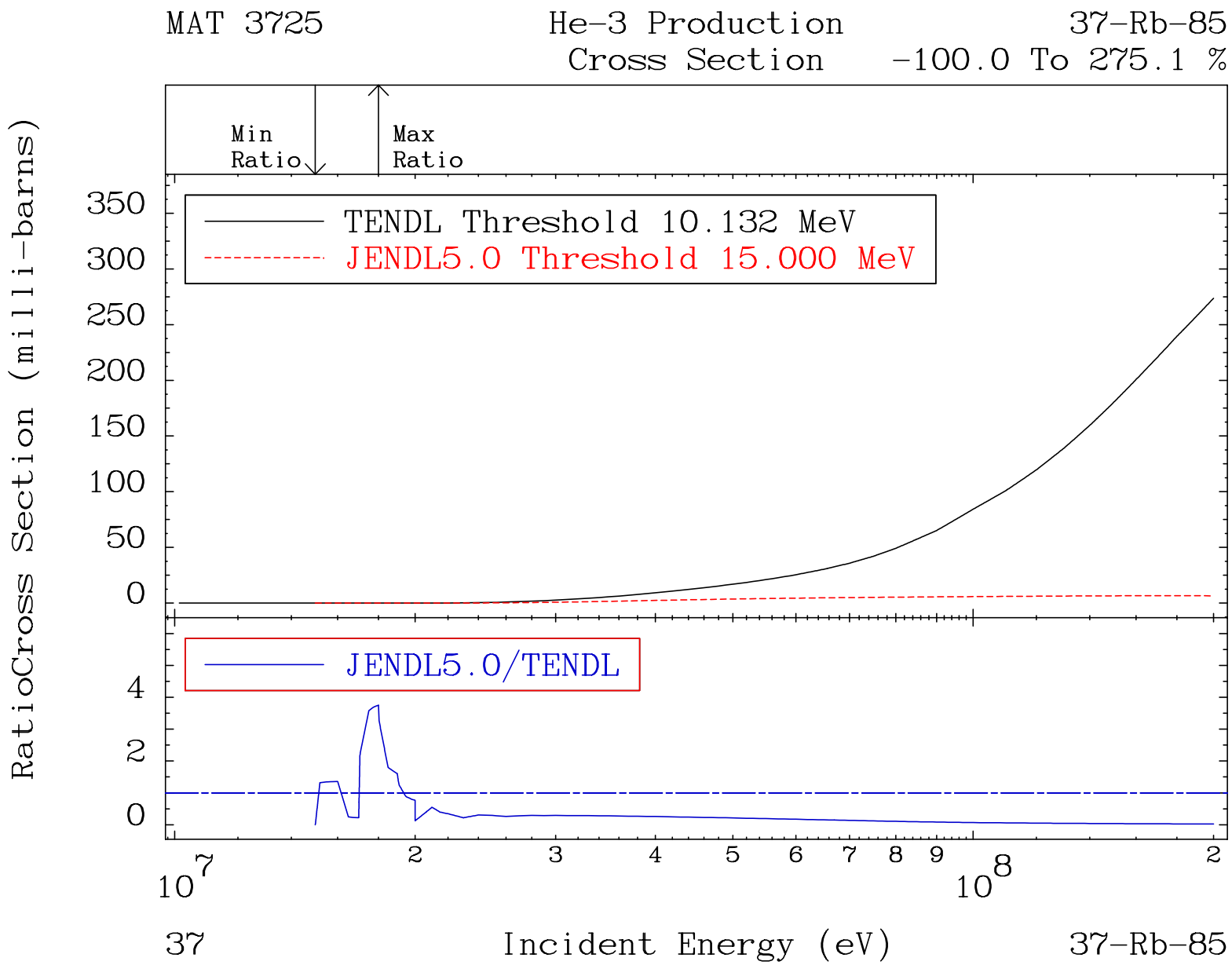

MAT 3725
(n,He-3)
Cross Section
37-Rb-85
-100.0 To 275.1 %
Min Ratio
Max Ratio
TENDL Threshold 10.132 MeV
JENDL5.0 Threshold 15.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
32
Incident Energy (eV)
37-Rb-85

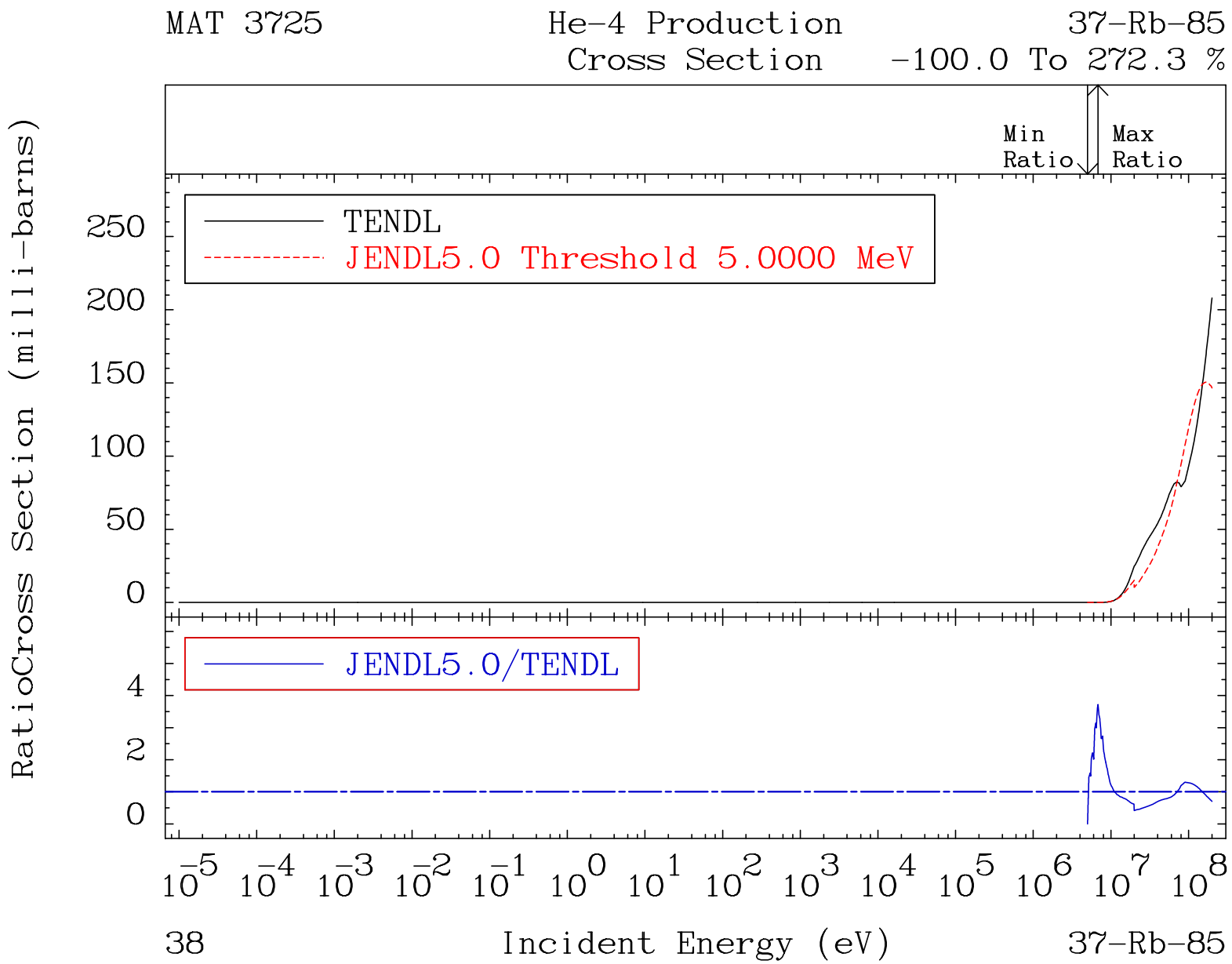

MAT 3725
(n,α)
Cross Section
37-Rb-85
-100.0 To 272.3 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
33
Incident Energy (eV)
37-Rb-85

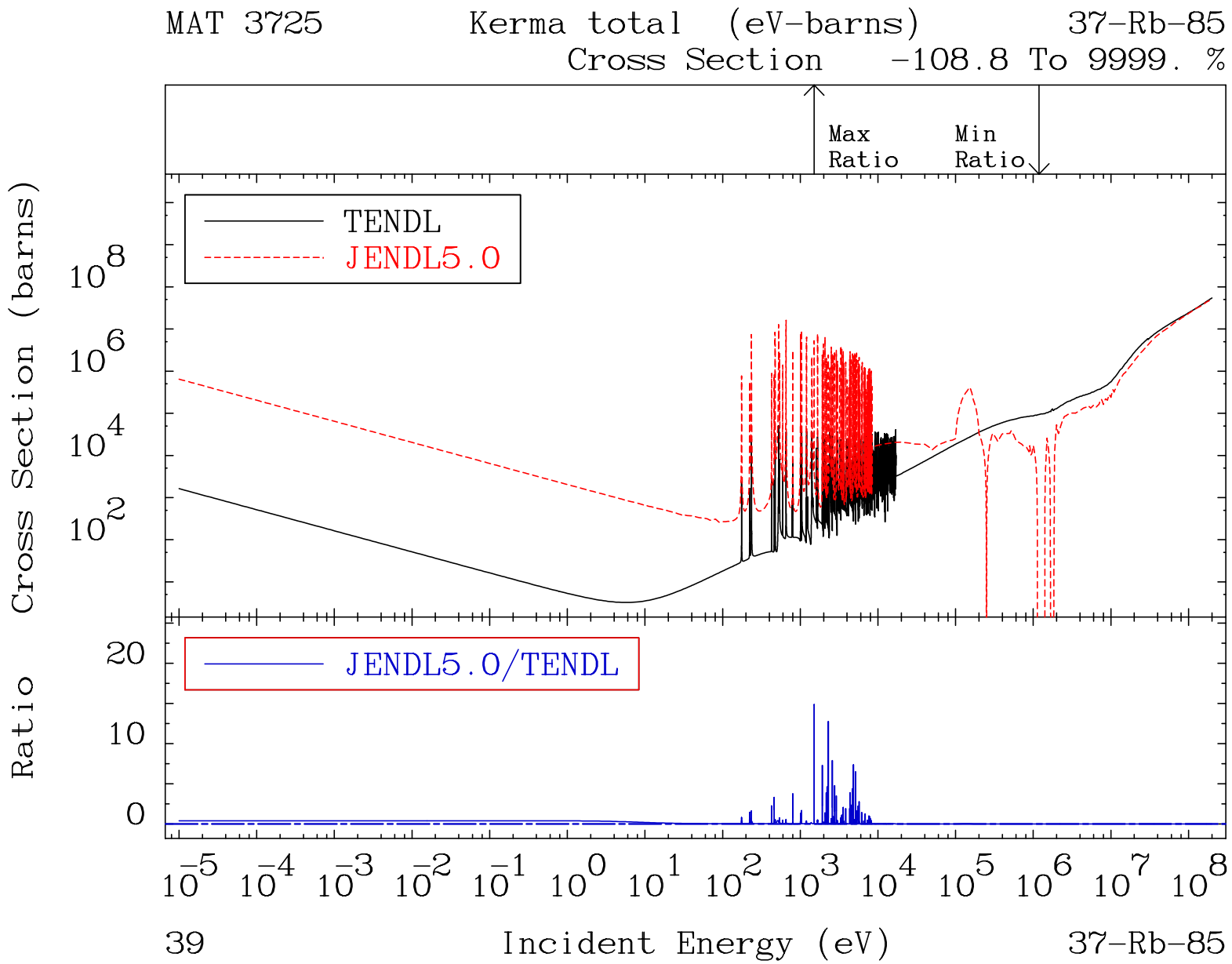

MAT 3725
Hydrogen Production
37-Rb-85
Cross Section
-100.0 To 162.9 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 1.5000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
37-Rb-85

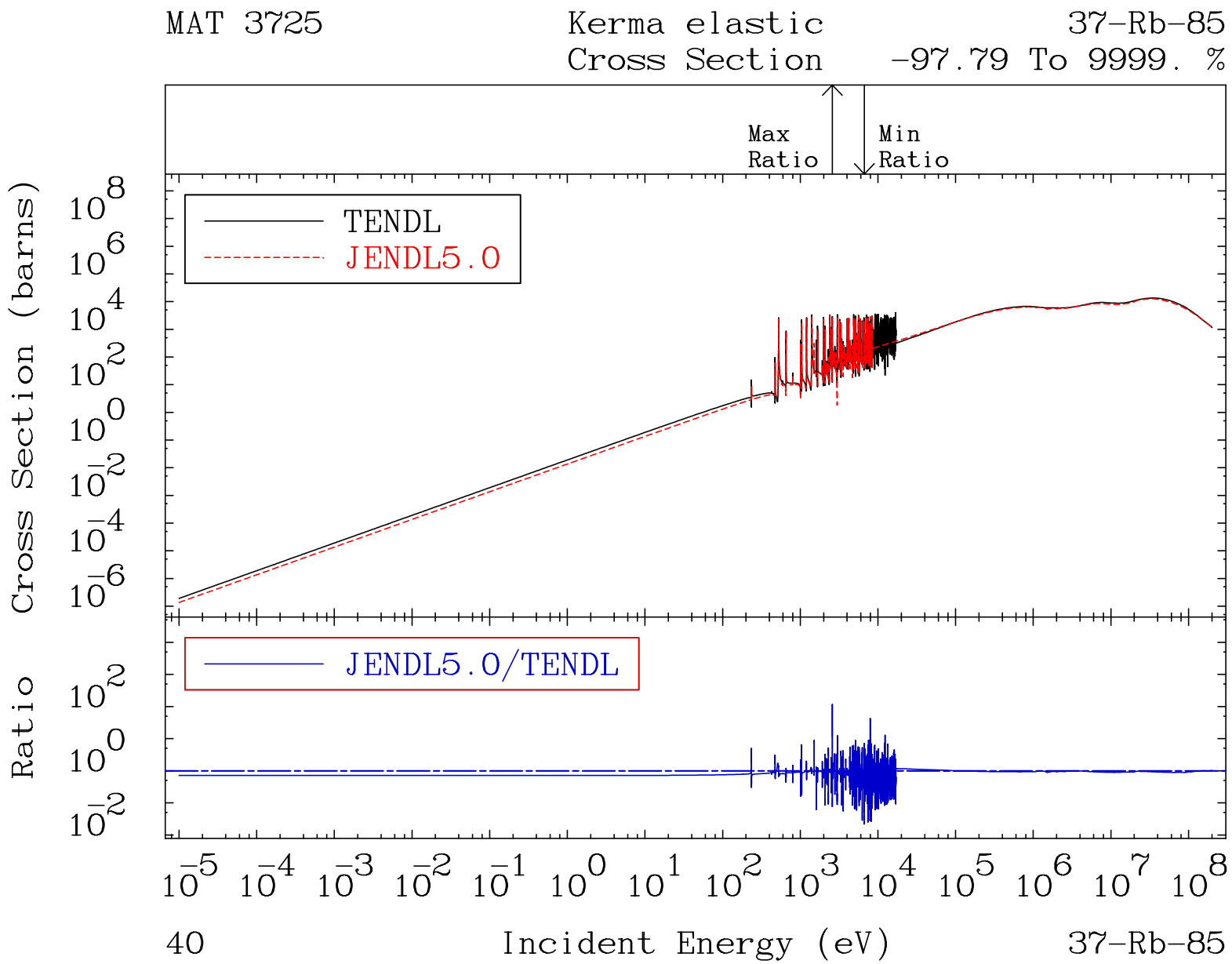

MAT 3725
Deuterium Production
37-Rb-85
Cross Section -100.0 To 768.6 %
Min Ratio
Max Ratio
TENDL Threshold 4.8493 MeV
JENDL5.0 Threshold 6.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
12
8
4
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
37-Rb-85

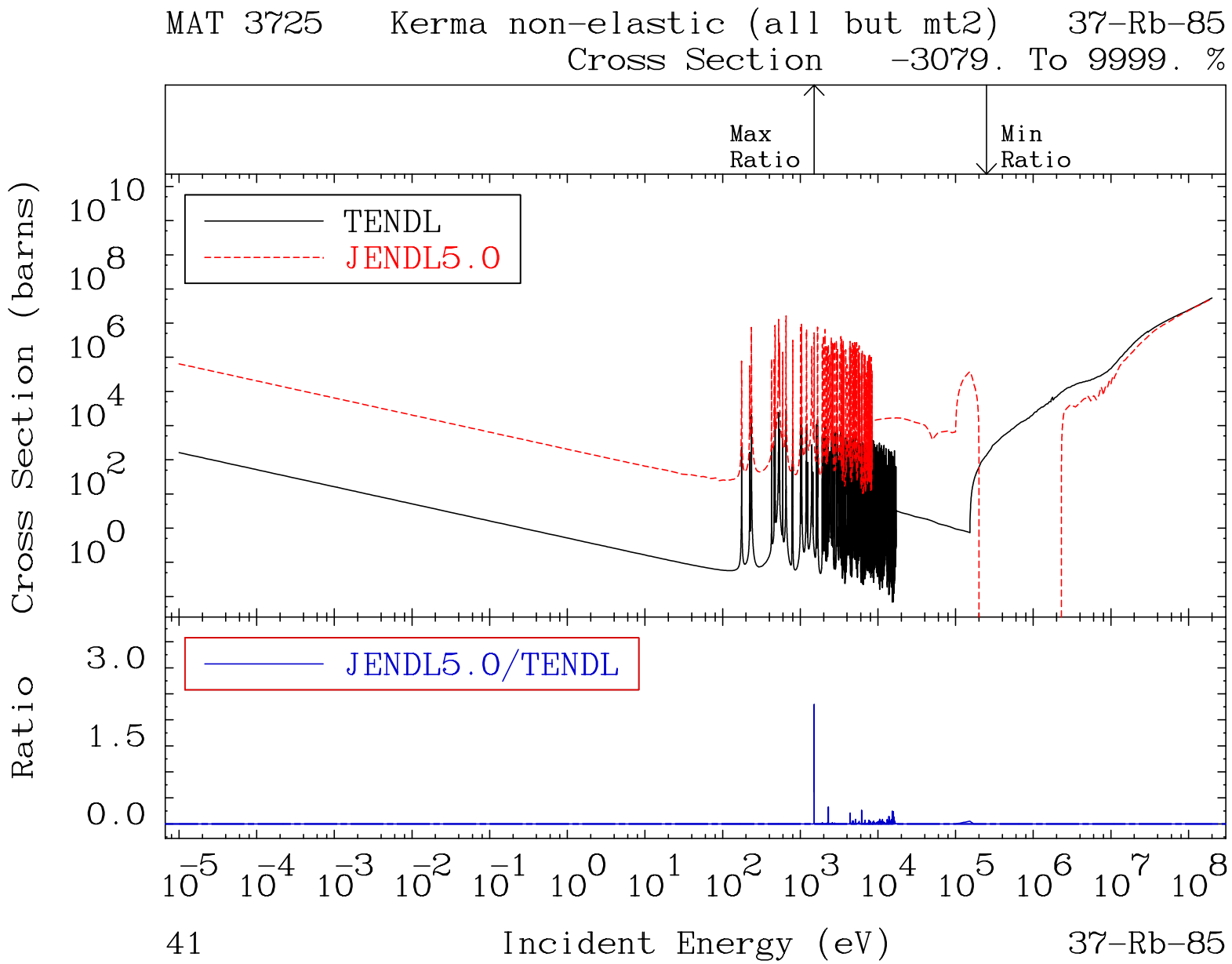

MAT 3725
Tritium Production
37-Rb-85
Cross Section
-100.0 To 7566. %
Max
Ratio
TENDL Threshold 9.1627 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
80
40
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
36
Incident Energy (eV)
37-Rb-85

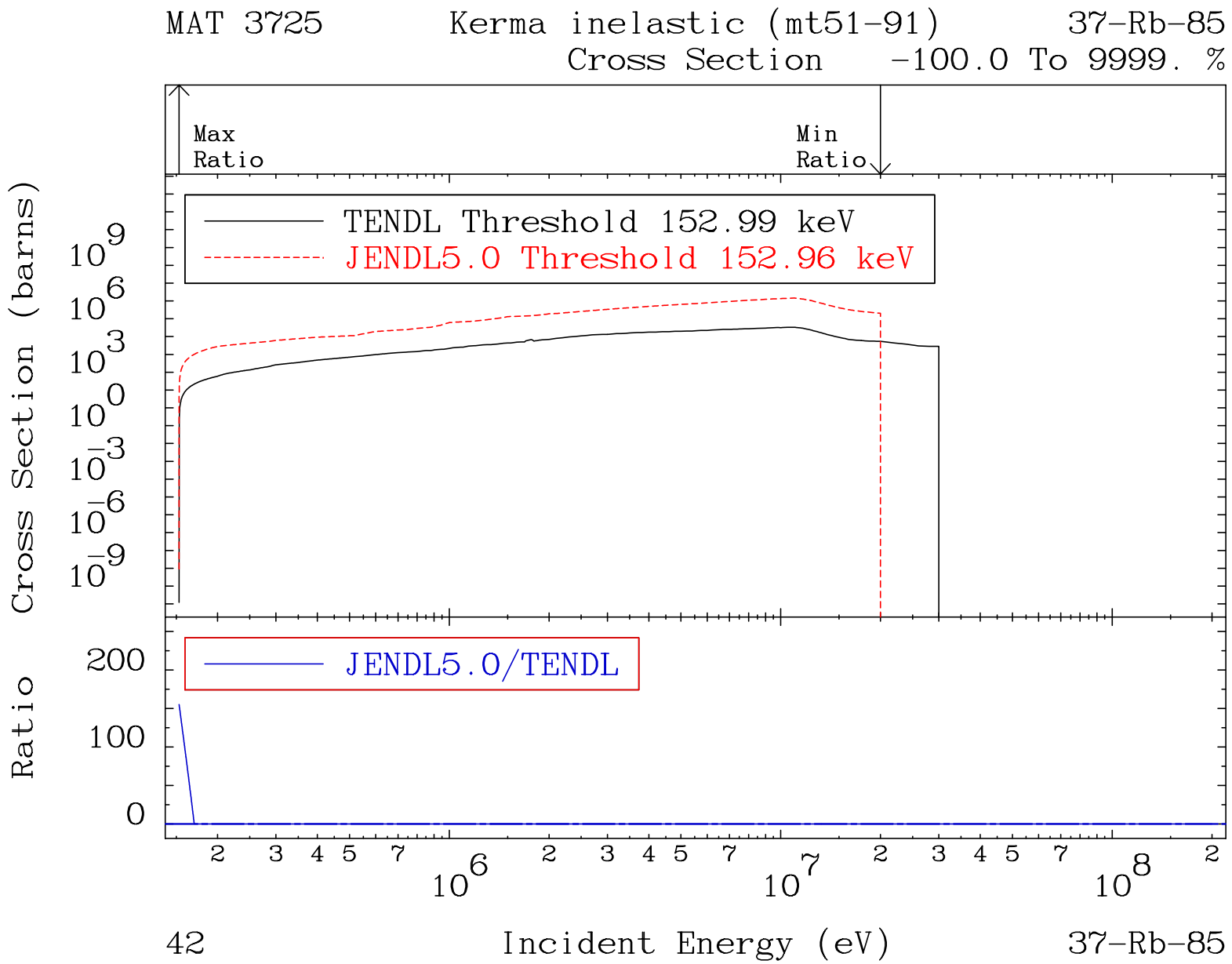

MAT 3725
He-3 Production
Cross Section
37-Rb-85
-100.0 To 275.1 %
Min Ratio
Max Ratio
TENDL Threshold 10.132 MeV
JENDL5.0 Threshold 15.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
37-Rb-85

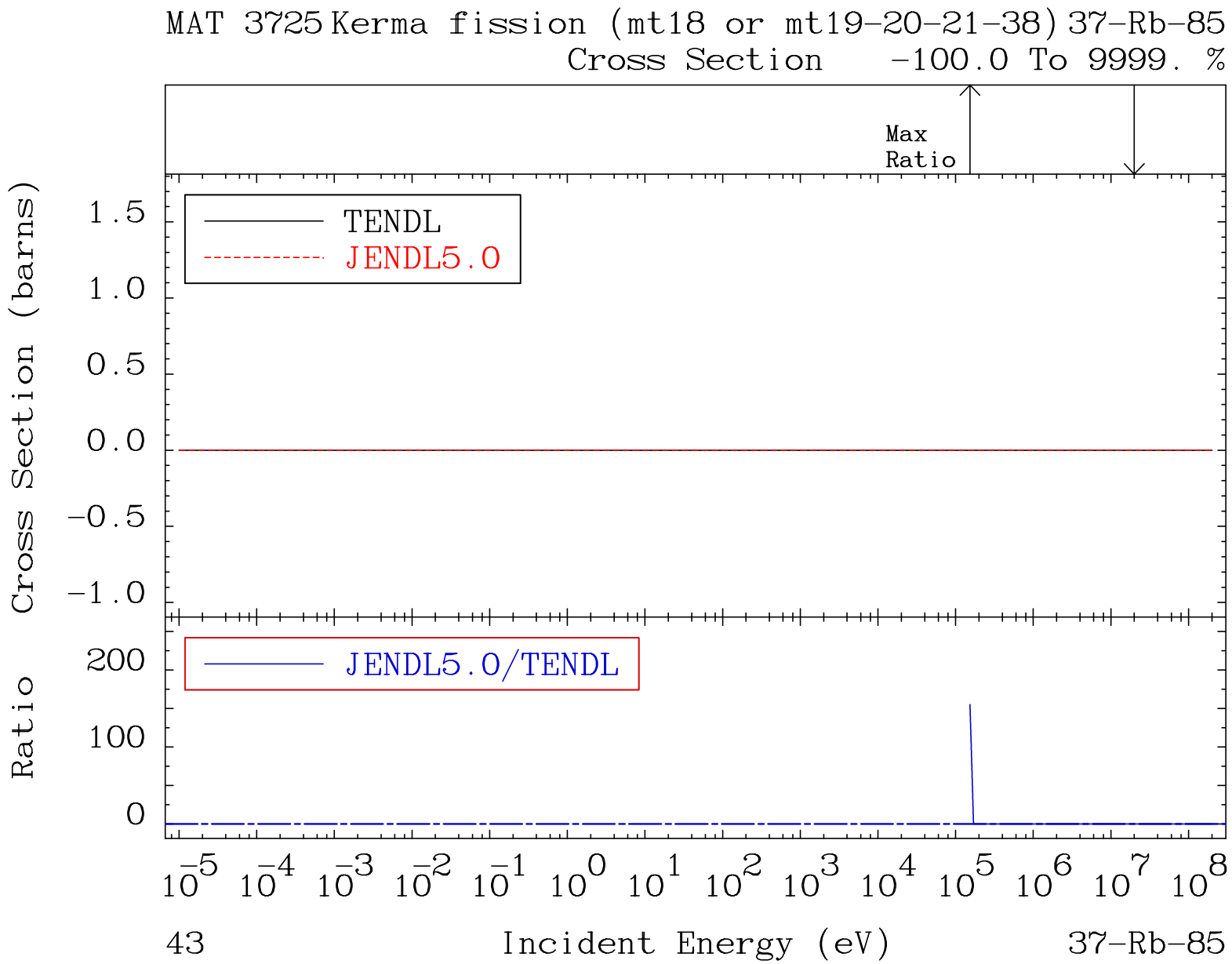

MAT 3725
He-4 Production
Cross Section
37-Rb-85
-100.0 To 272.3 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
37-Rb-85

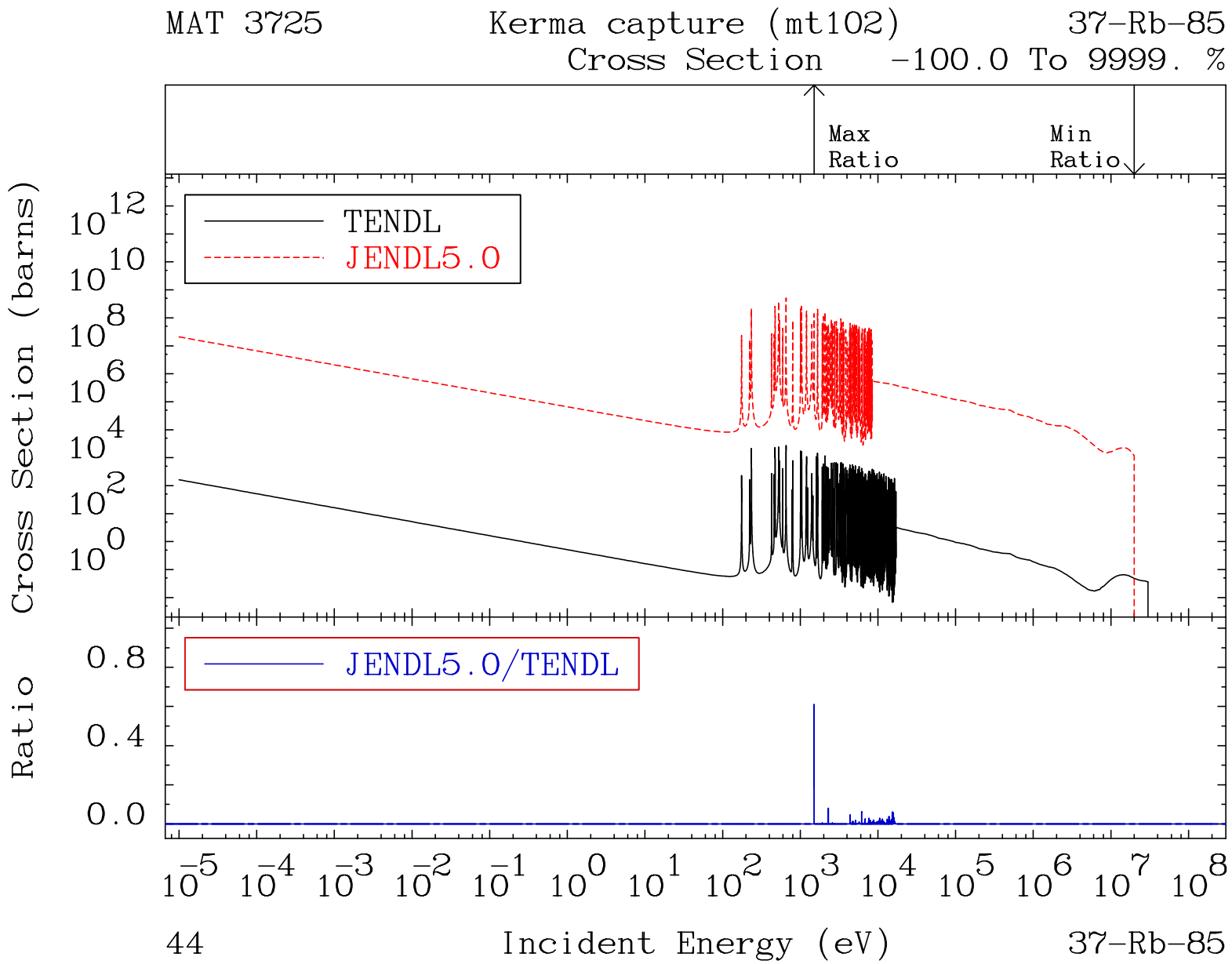

MAT 3725
Kerma total (eV-barns)
37-Rb-85
Cross Section -108.8 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
39
37-Rb-85

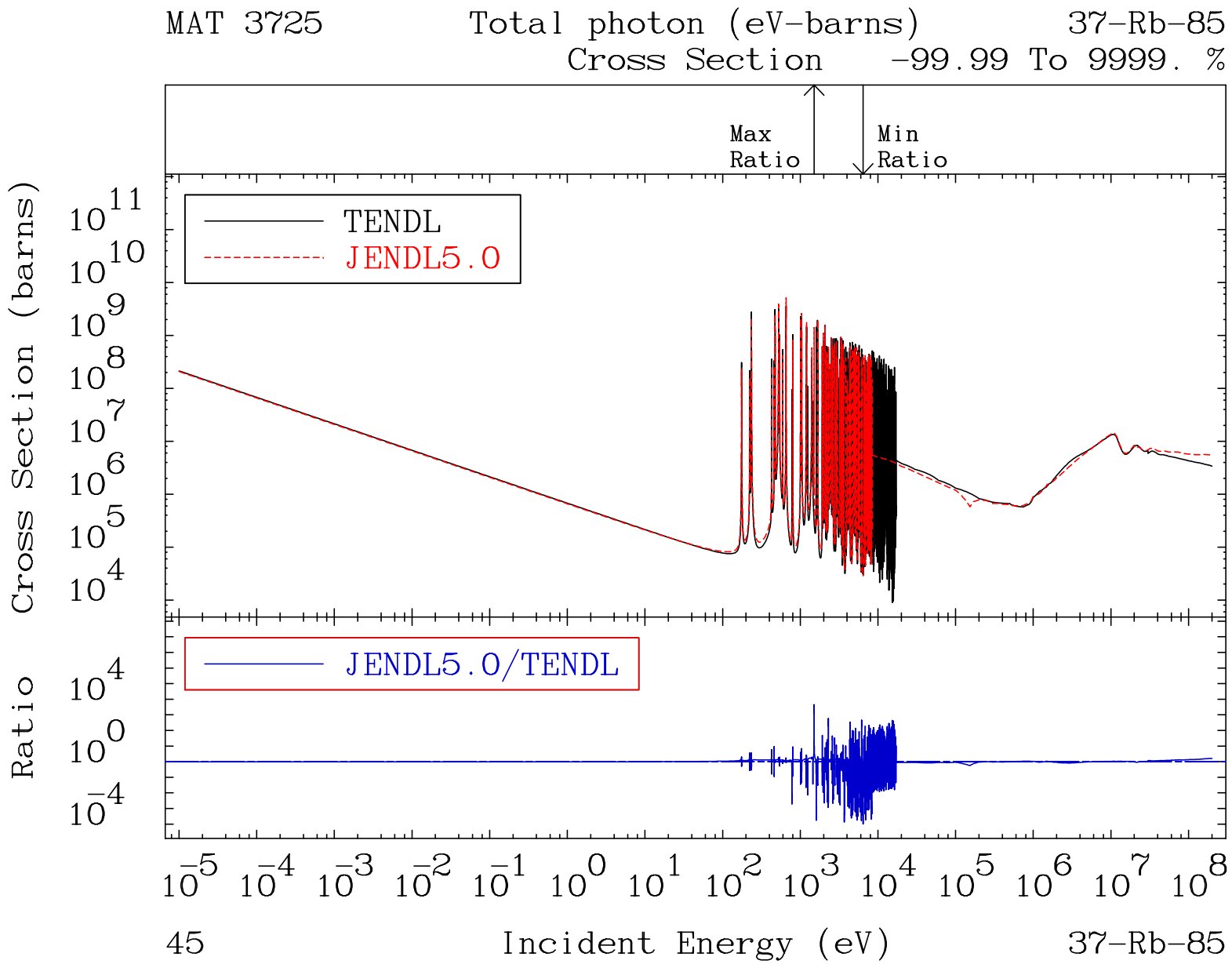

MAT 3725
Kerma elastic
Cross Section
37-Rb-85
-97.79 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
37-Rb-85

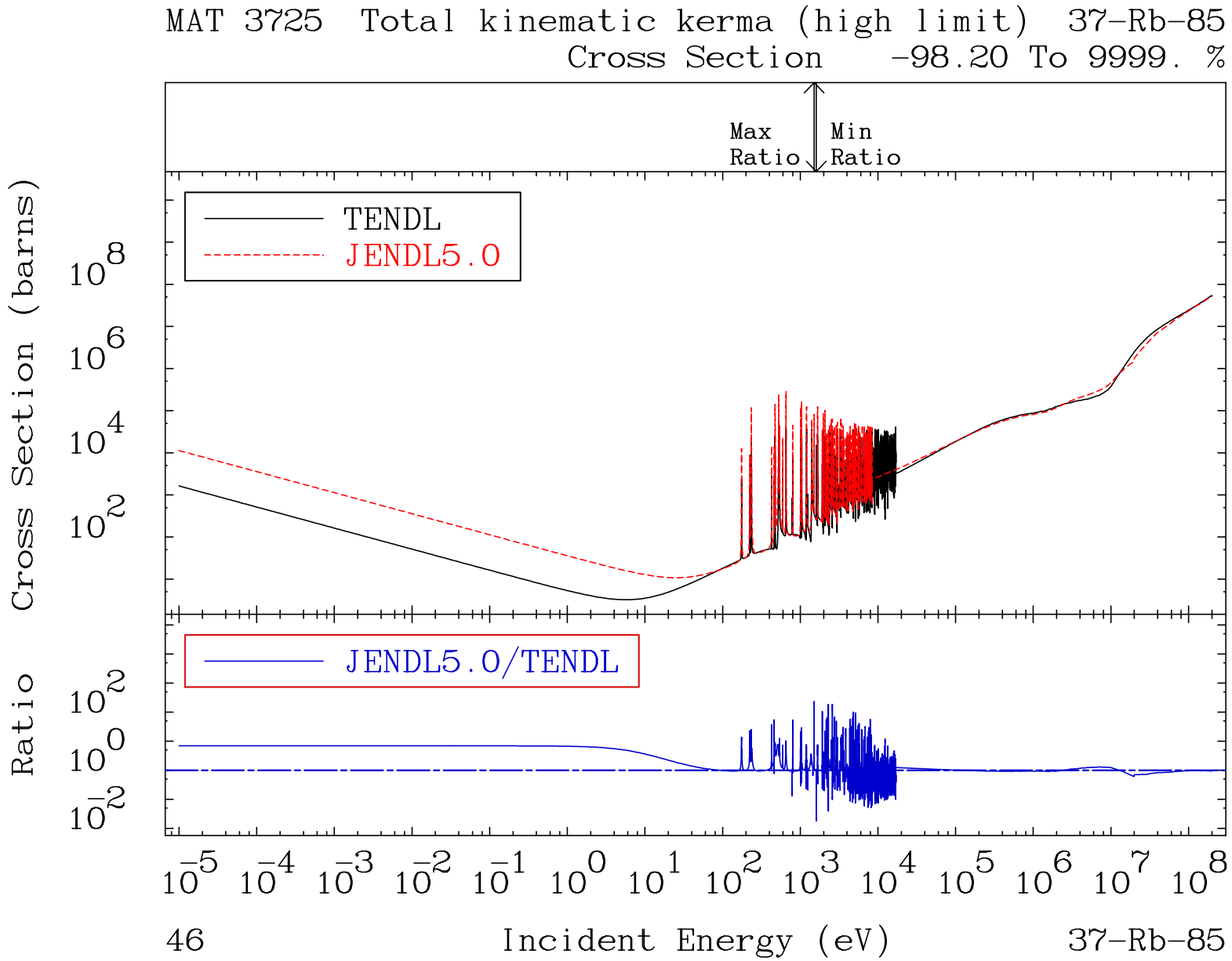

MAT 3725 Kerma non-elastic (all but mt2) 37-Rb-85
Cross Section -3079. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
37-Rb-85

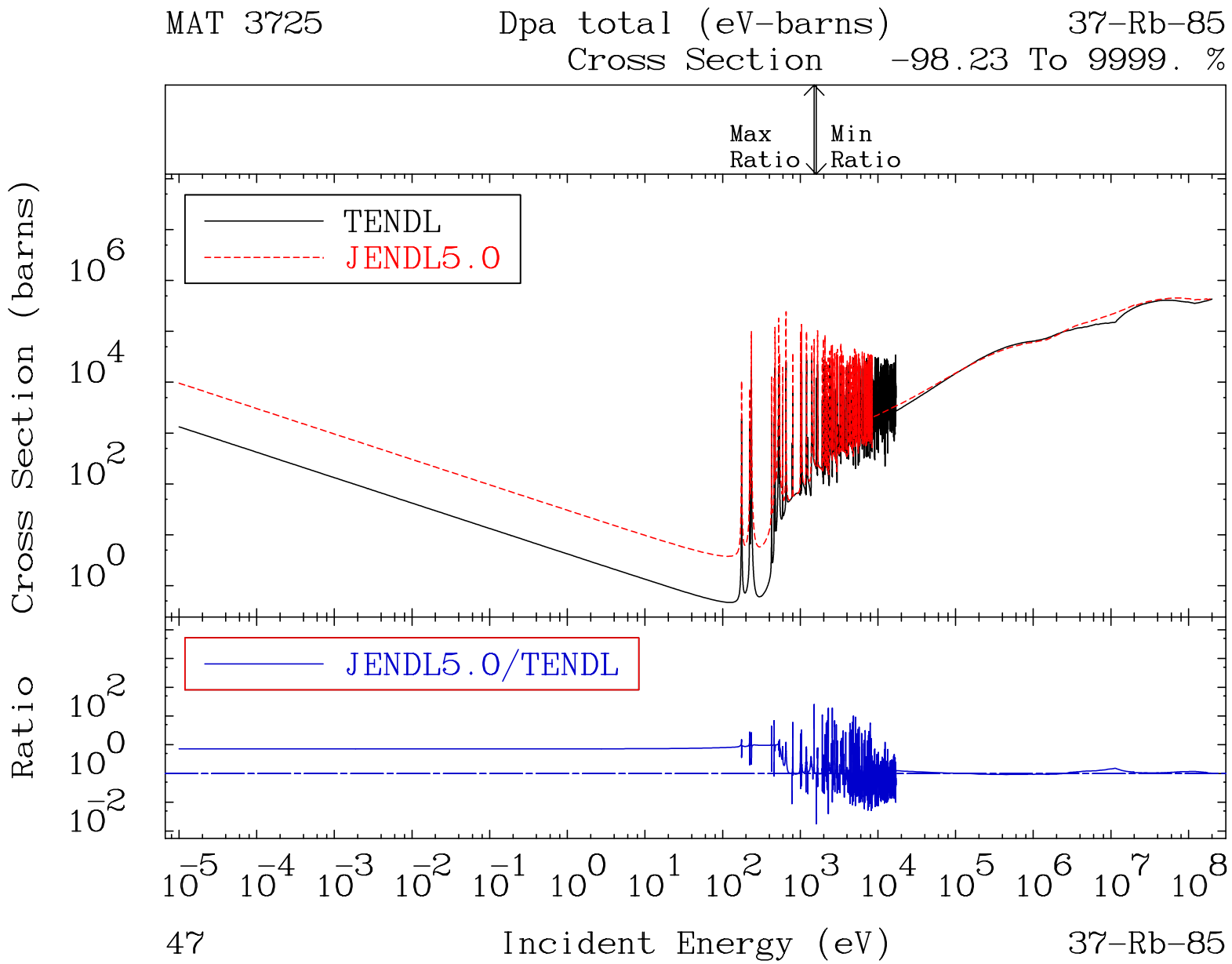

MAT 3725
Kerma inelastic (mt51-91)
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 152.99 keV
JENDL5.0 Threshold 152.96 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
42
37-Rb-85

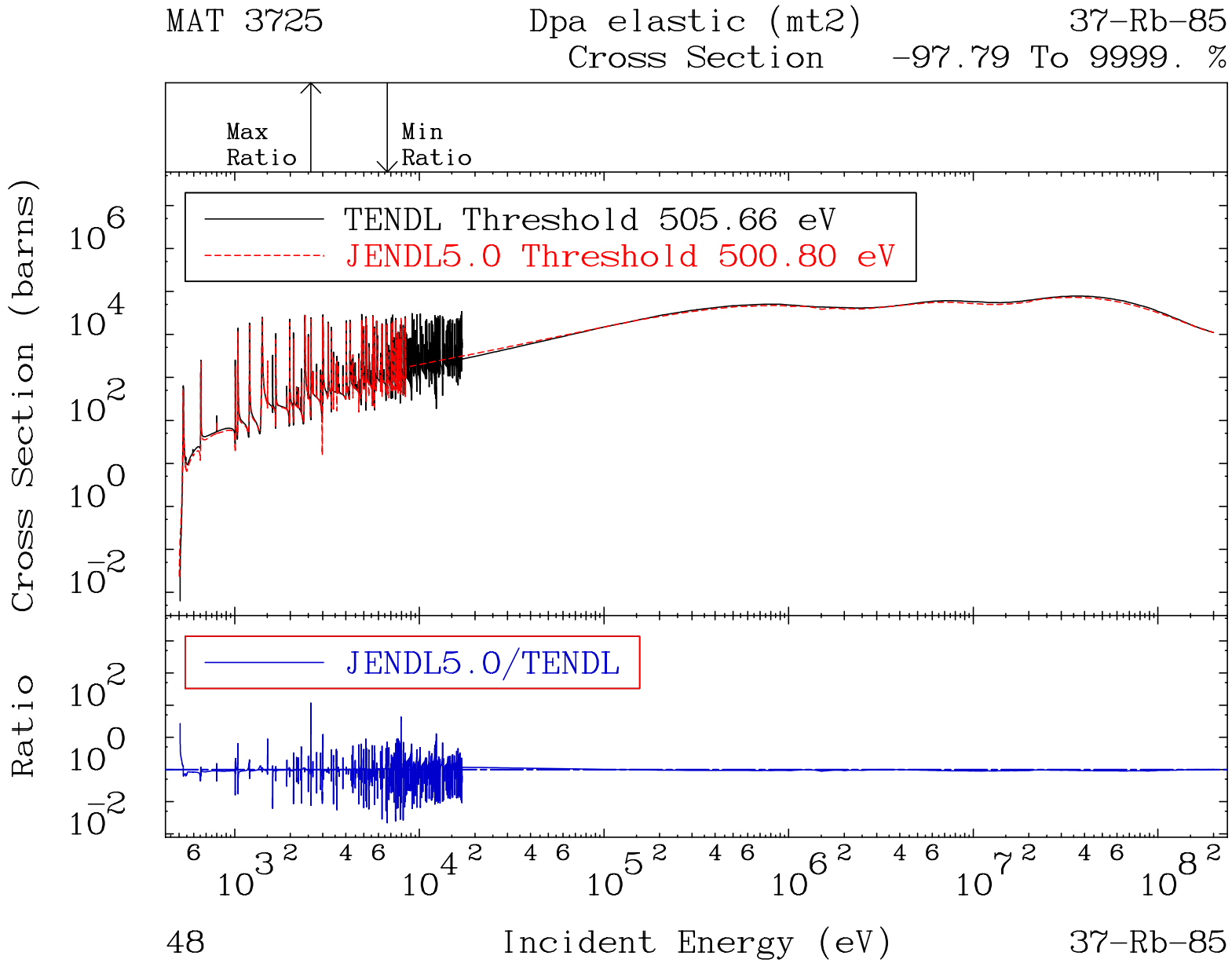

MAT 3725 Kerma fission (mt18 or mt19-20-21-38) 37-Rb-85
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
43
Incident Energy (eV)
37-Rb-85

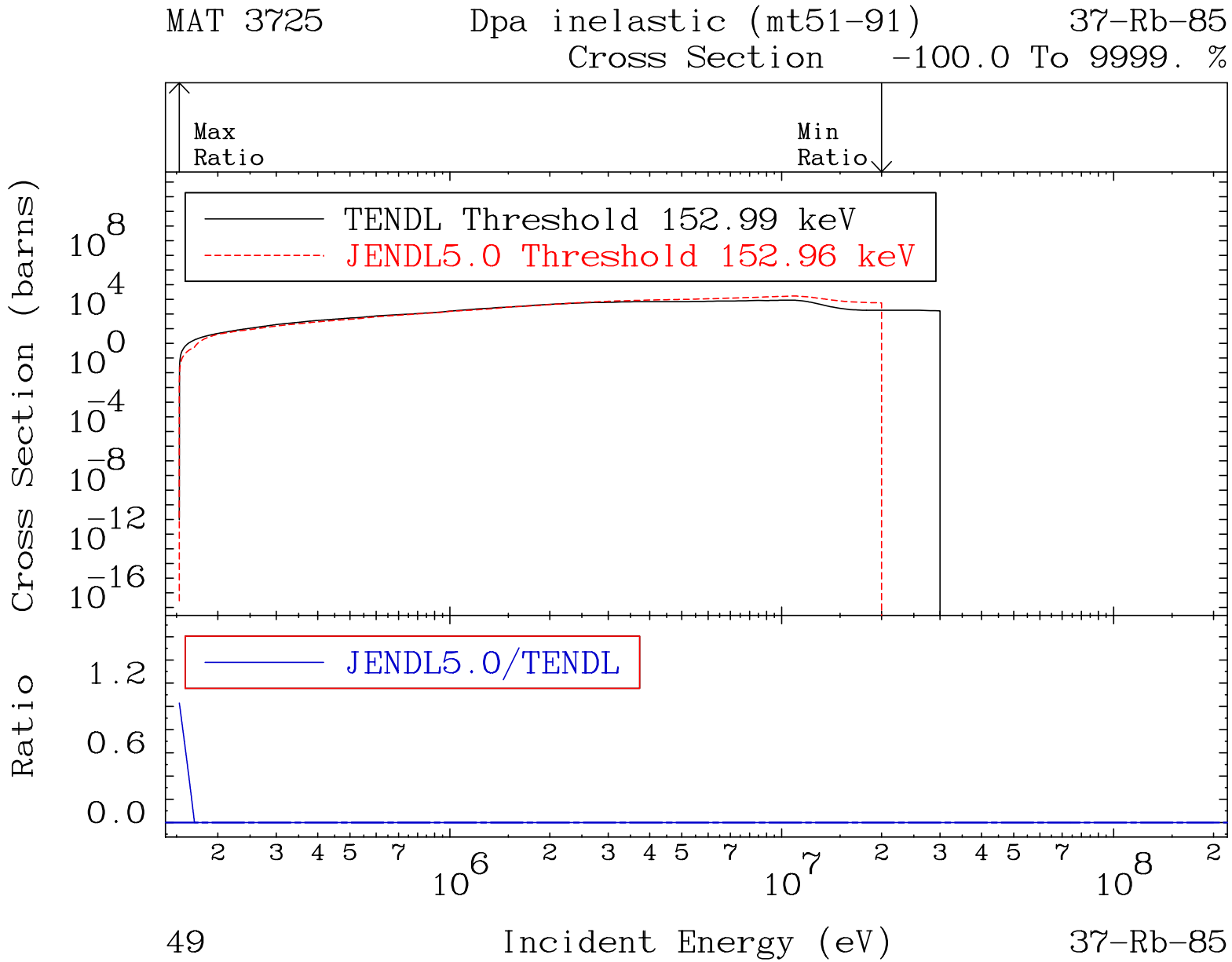

MAT 3725
Kerma capture (mt102)
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
37-Rb-85

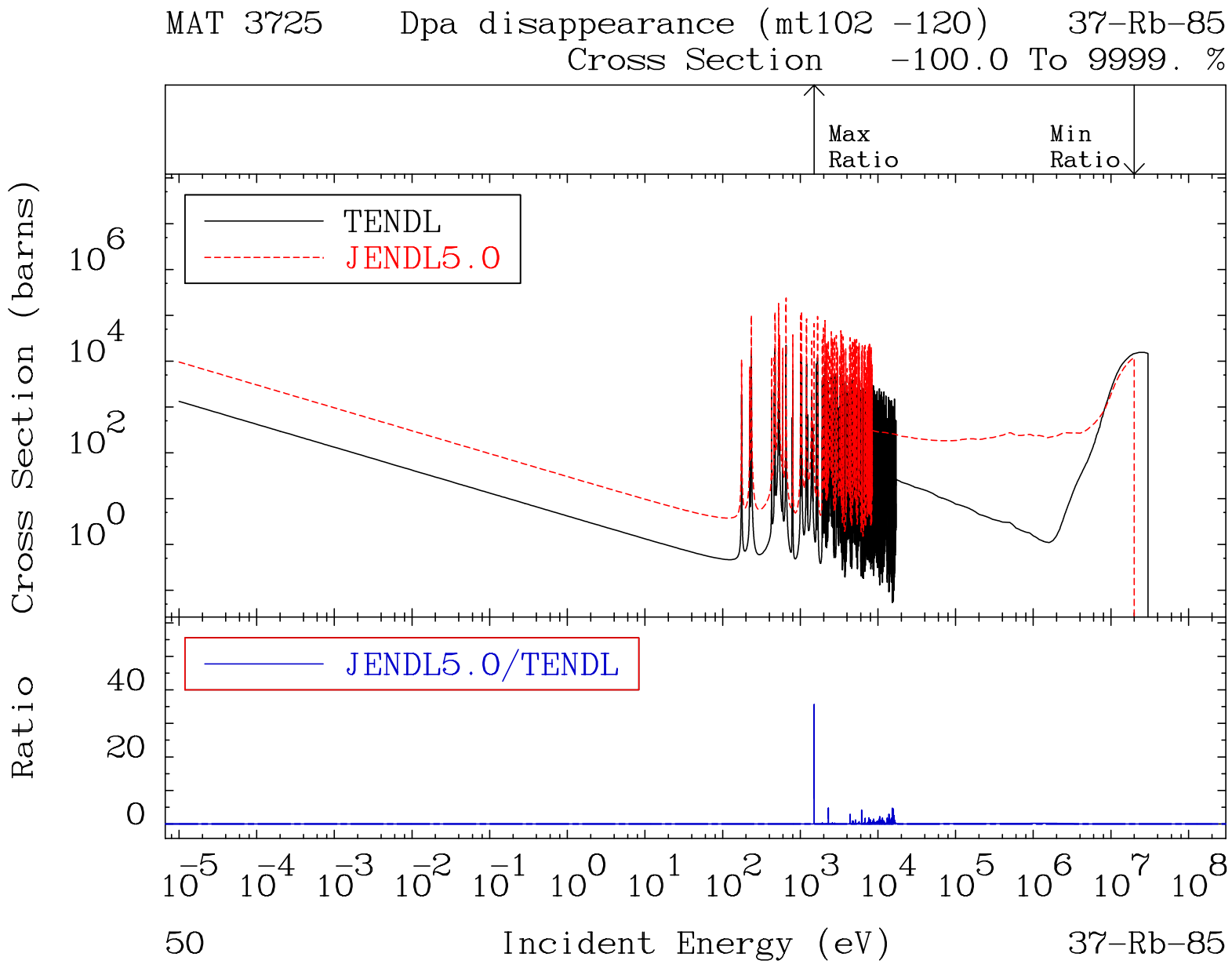

MAT 3725
Total photon (eV-barns)
37-Rb-85
Cross Section -99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
37-Rb-85

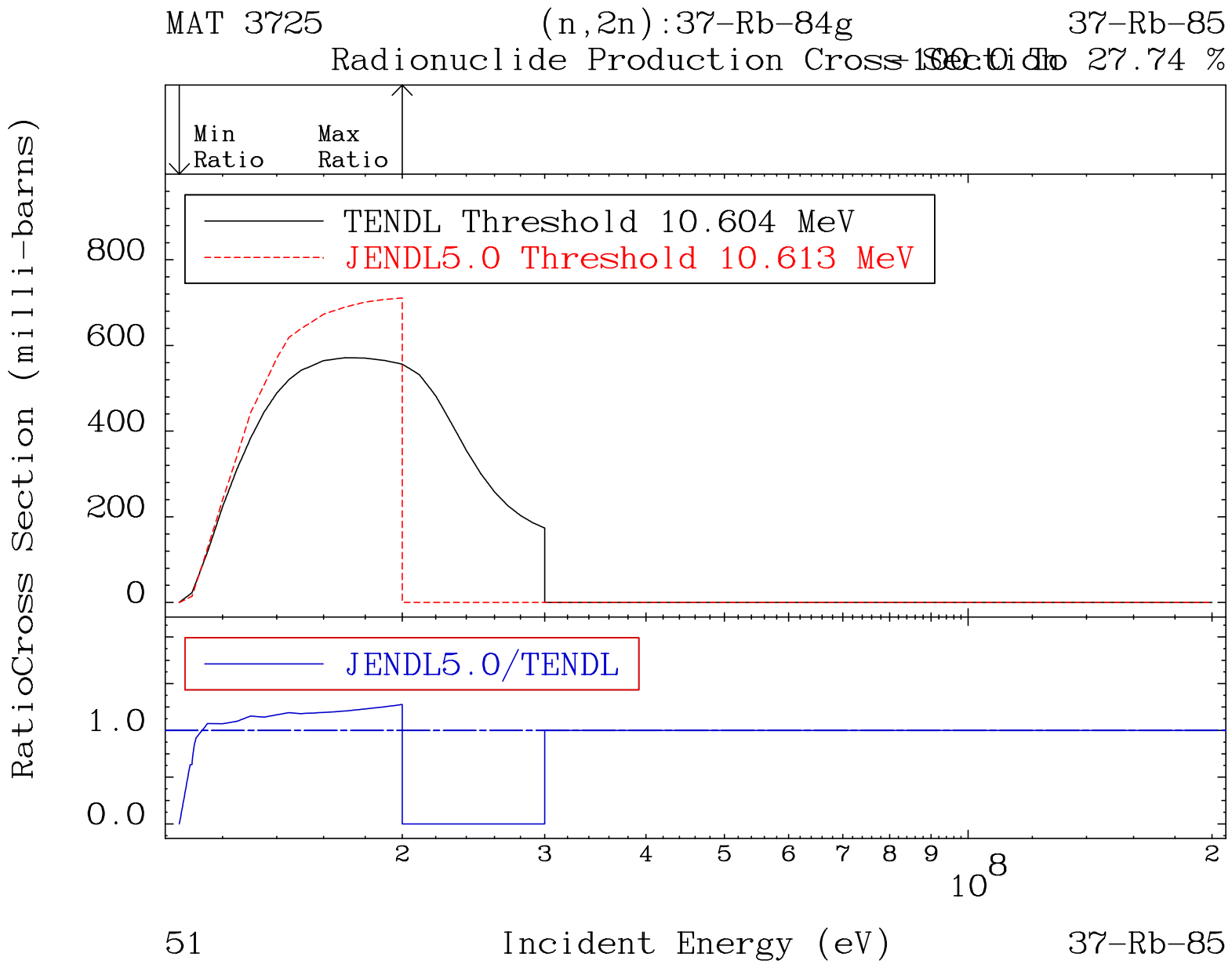

MAT 3725 Total kinematic kerma (high limit) 37-Rb-85
Cross Section -98.20 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
46
37-Rb-85

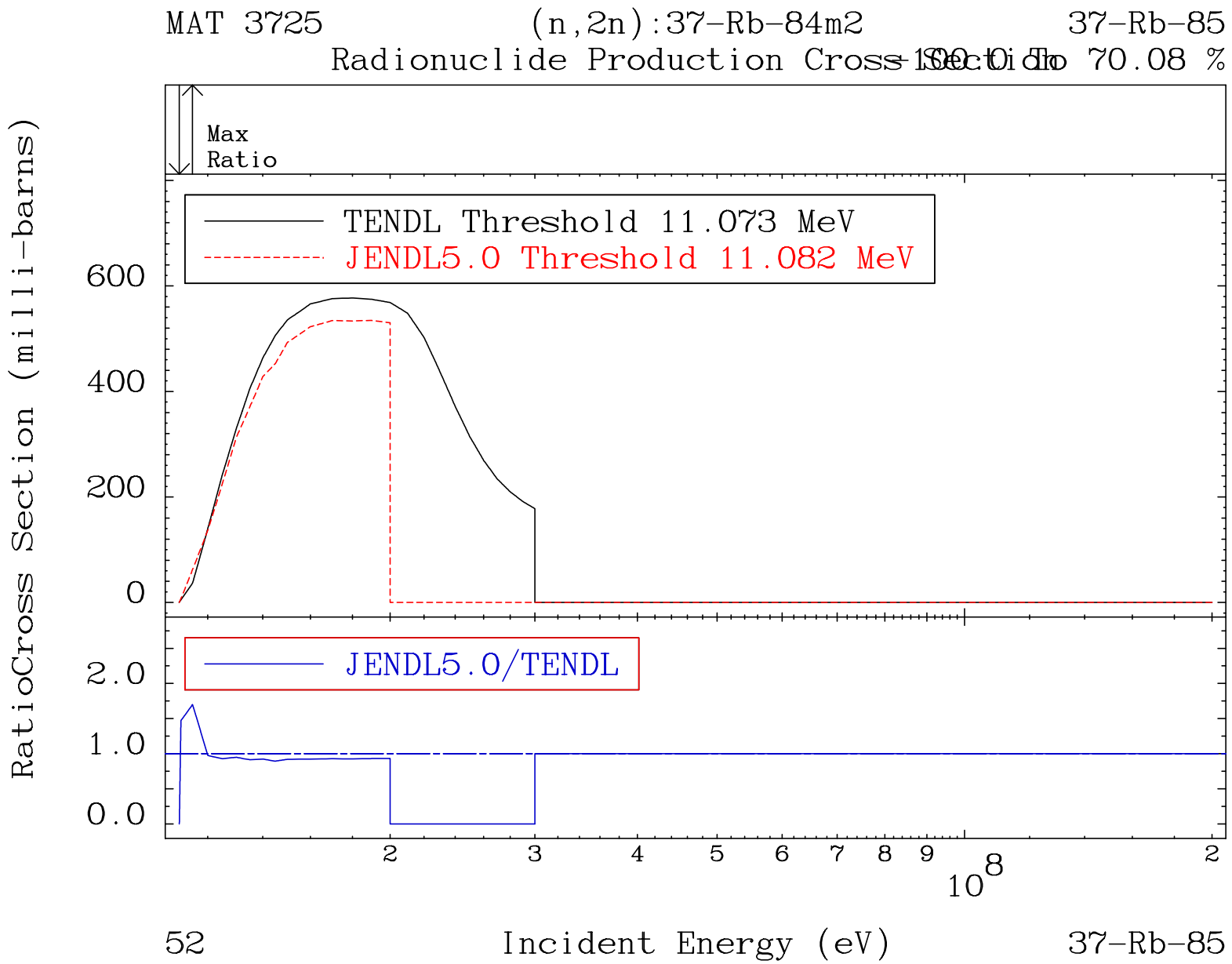

MAT 3725
Dpa total (eV-barns)
37-Rb-85
Cross Section -98.23 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
37-Rb-85

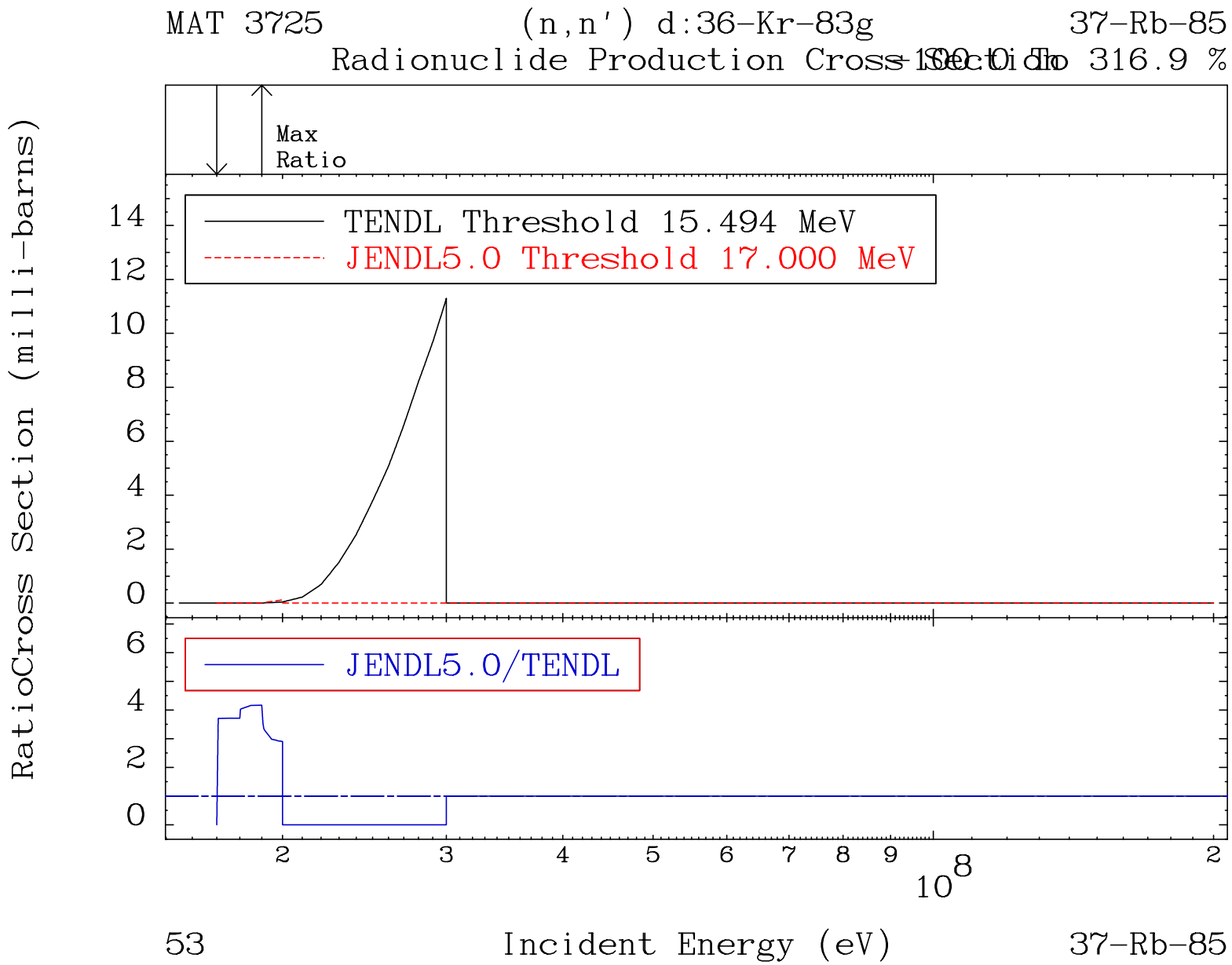

MAT 3725
Dpa elastic (mt2)
Cross Section
37-Rb-85
-97.79 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 505.66 eV
JENDL5.0 Threshold 500.80 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
37-Rb-85

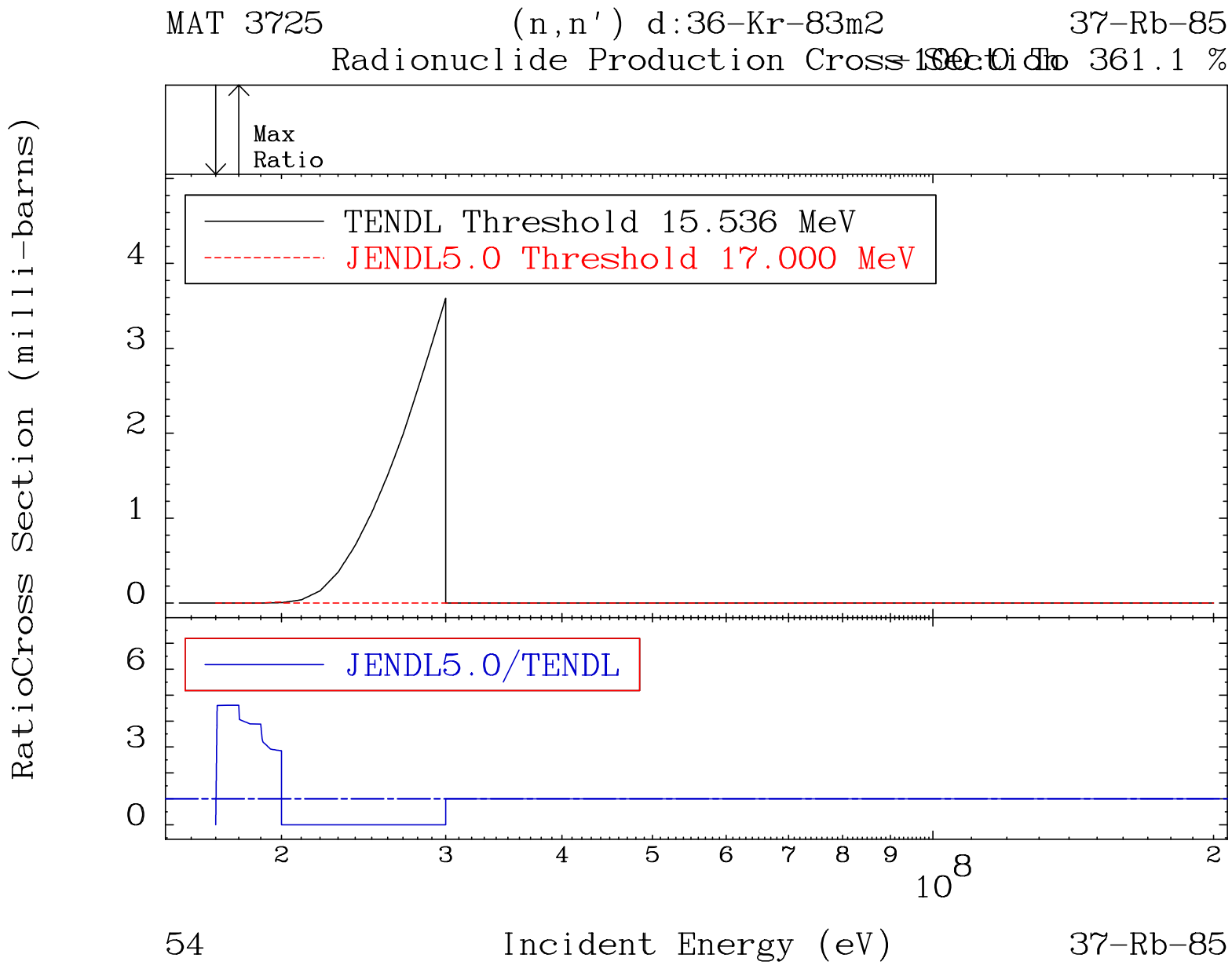

MAT 3725
Dpa inelastic (mt51-91)
37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 152.99 keV
JENDL5.0 Threshold 152.96 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
37-Rb-85

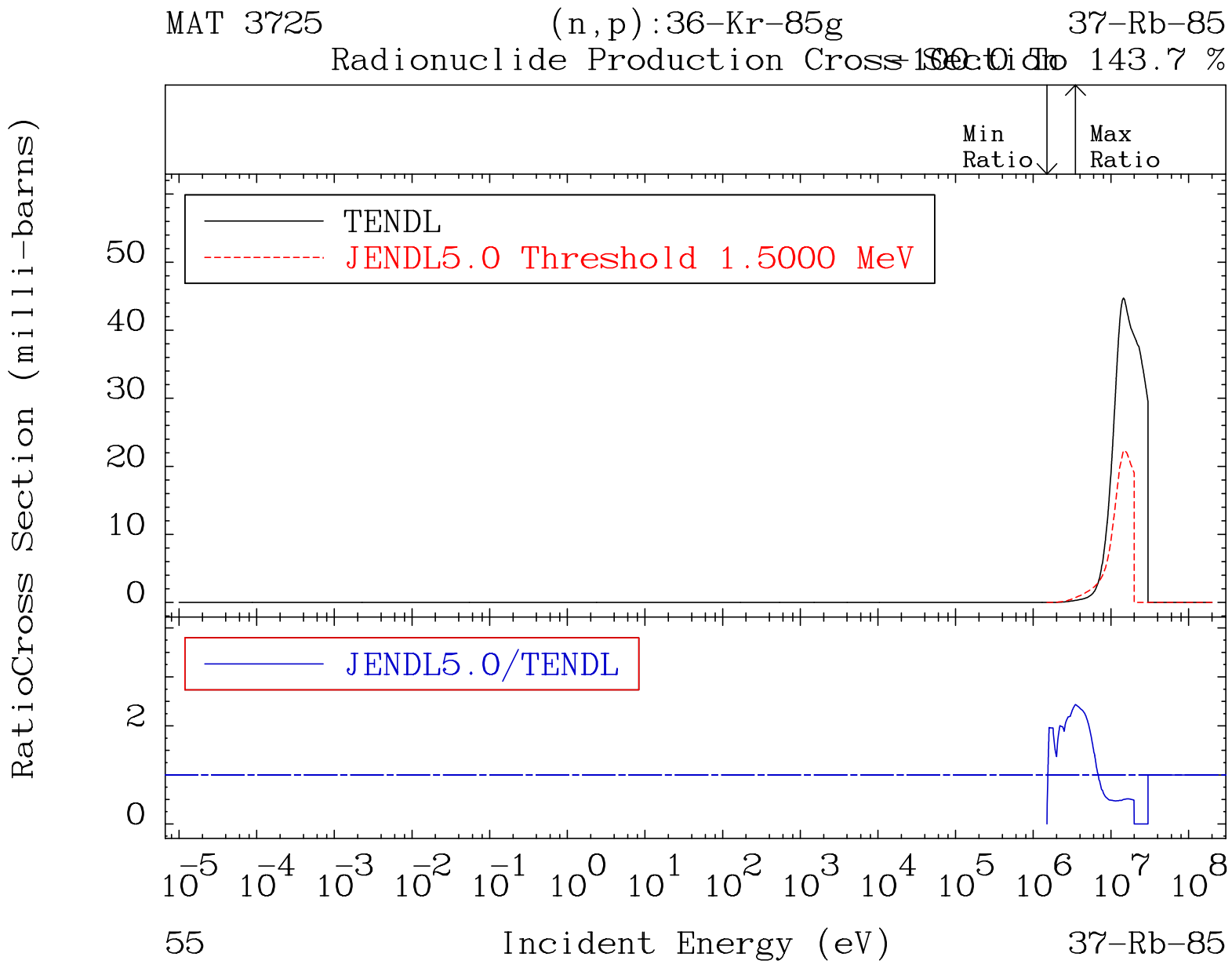

MAT 3725 Dpa disappearance (mt102 -120) 37-Rb-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
37-Rb-85

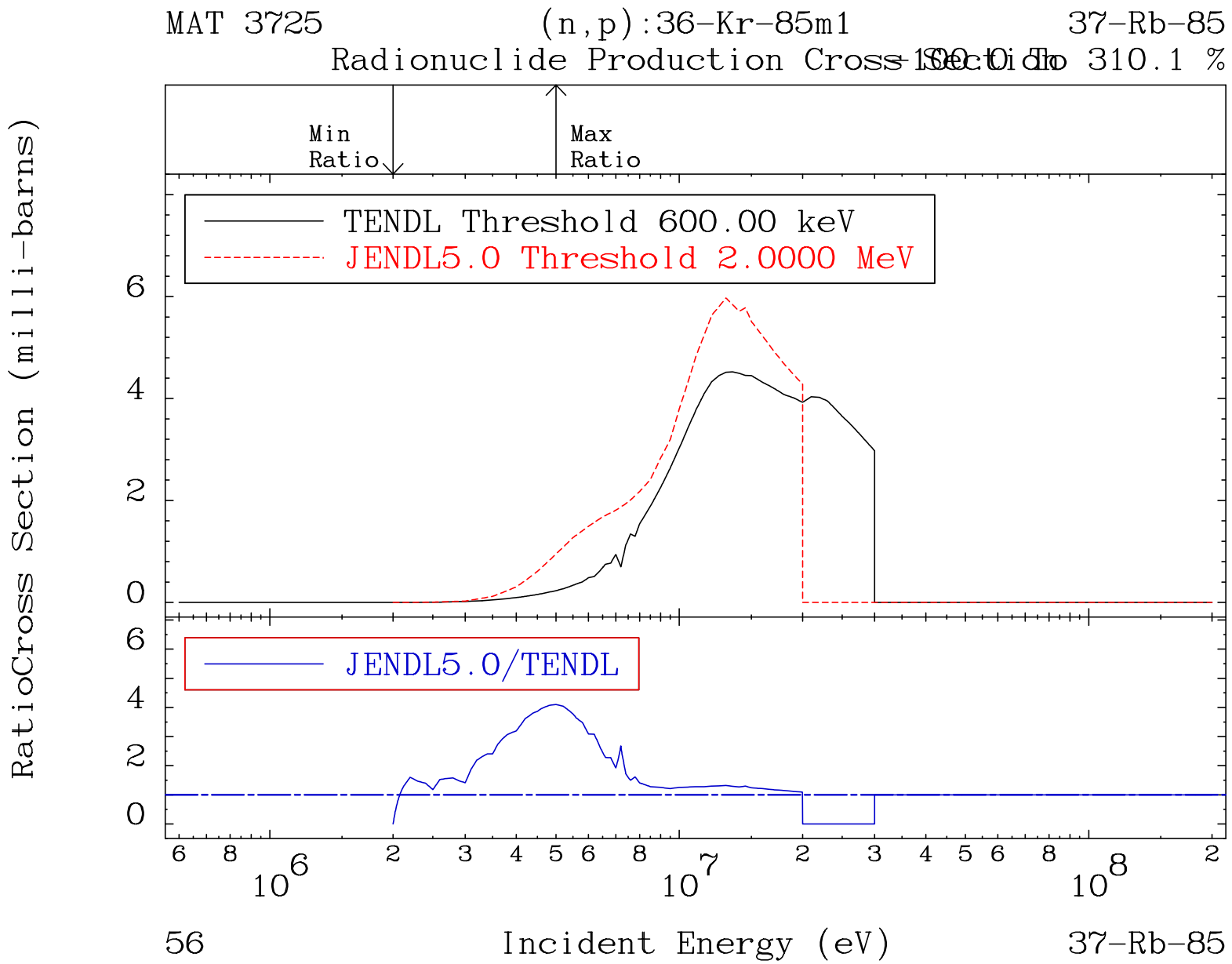

MAT 3725
(n,2n):37-Rb-84g
37-Rb-85
Radionuclide Production Cross Section To 27.74 %
Min Ratio
Max Ratio
TENDL Threshold 10.604 MeV
JENDL5.0 Threshold 10.613 MeV
800
600
400
200
0
JENDL5.0/TENDL
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (milli-barns)
51
Incident Energy (eV)
37-Rb-85

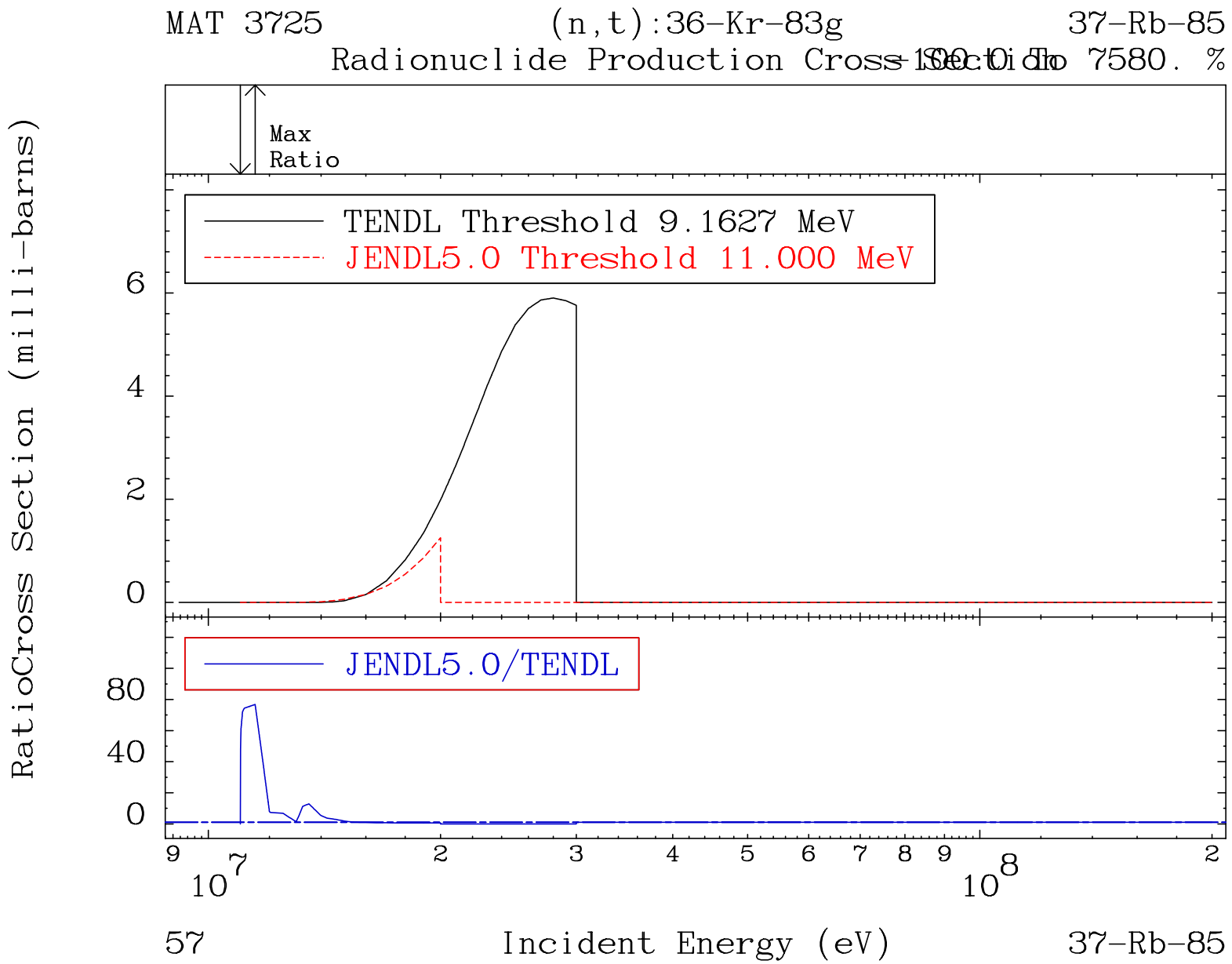

MAT 3725
(n,2n):37-Rb-84m2
37-Rb-85
Radionuclide Production Cross Section
Isotopic 70.08 %
Max
Ratio
TENDL Threshold 11.073 MeV
JENDL5.0 Threshold 11.082 MeV
600
400
200
0
JENDL5.0/TENDL
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
52
Incident Energy (eV)
37-Rb-85

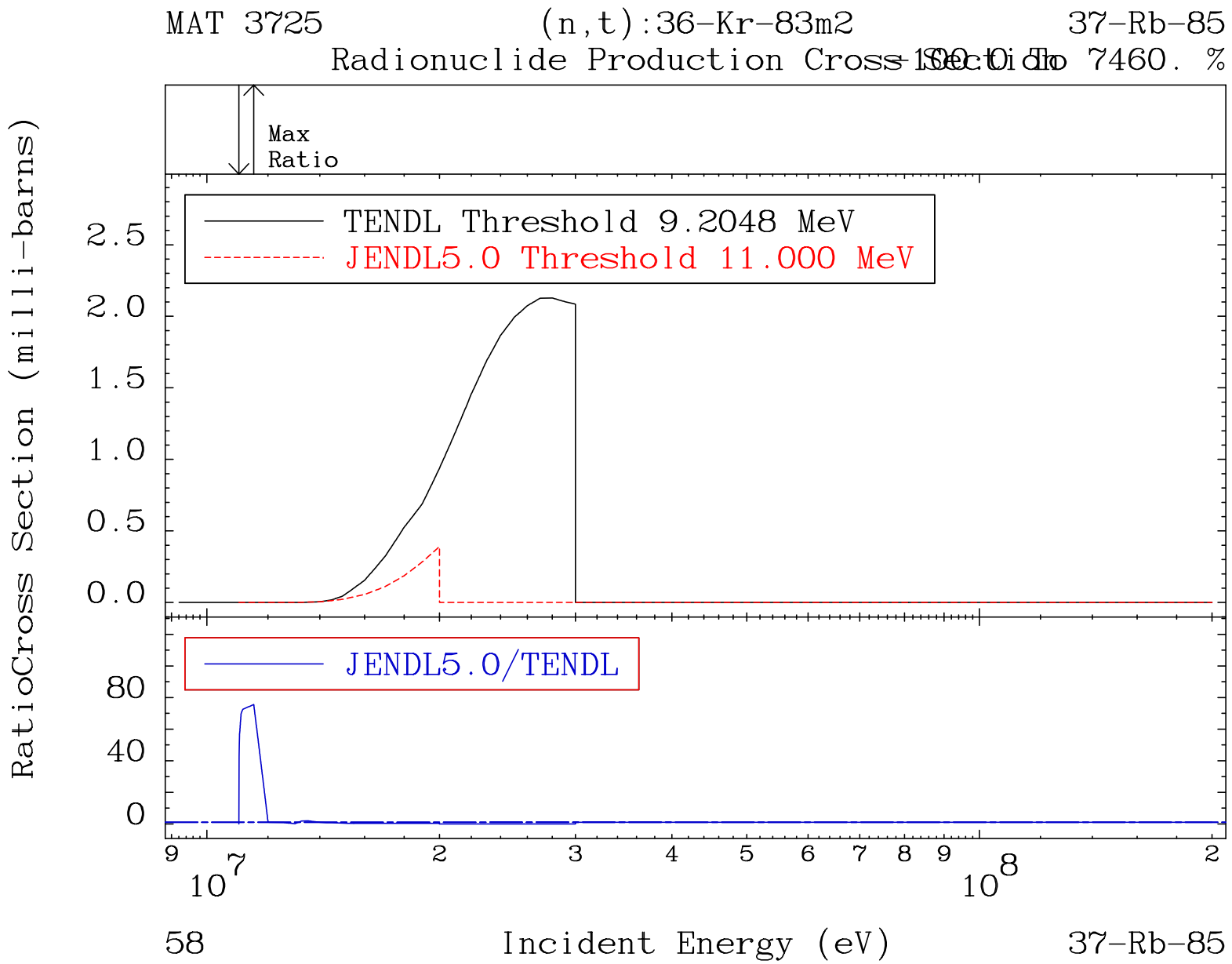

MAT 3725
(n,n') d:36-Kr-83g
37-Rb-85
Radionuclide Production Cross Section To 316.9 %
Max
Ratio
TENDL Threshold 15.494 MeV
JENDL5.0 Threshold 17.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
37-Rb-85

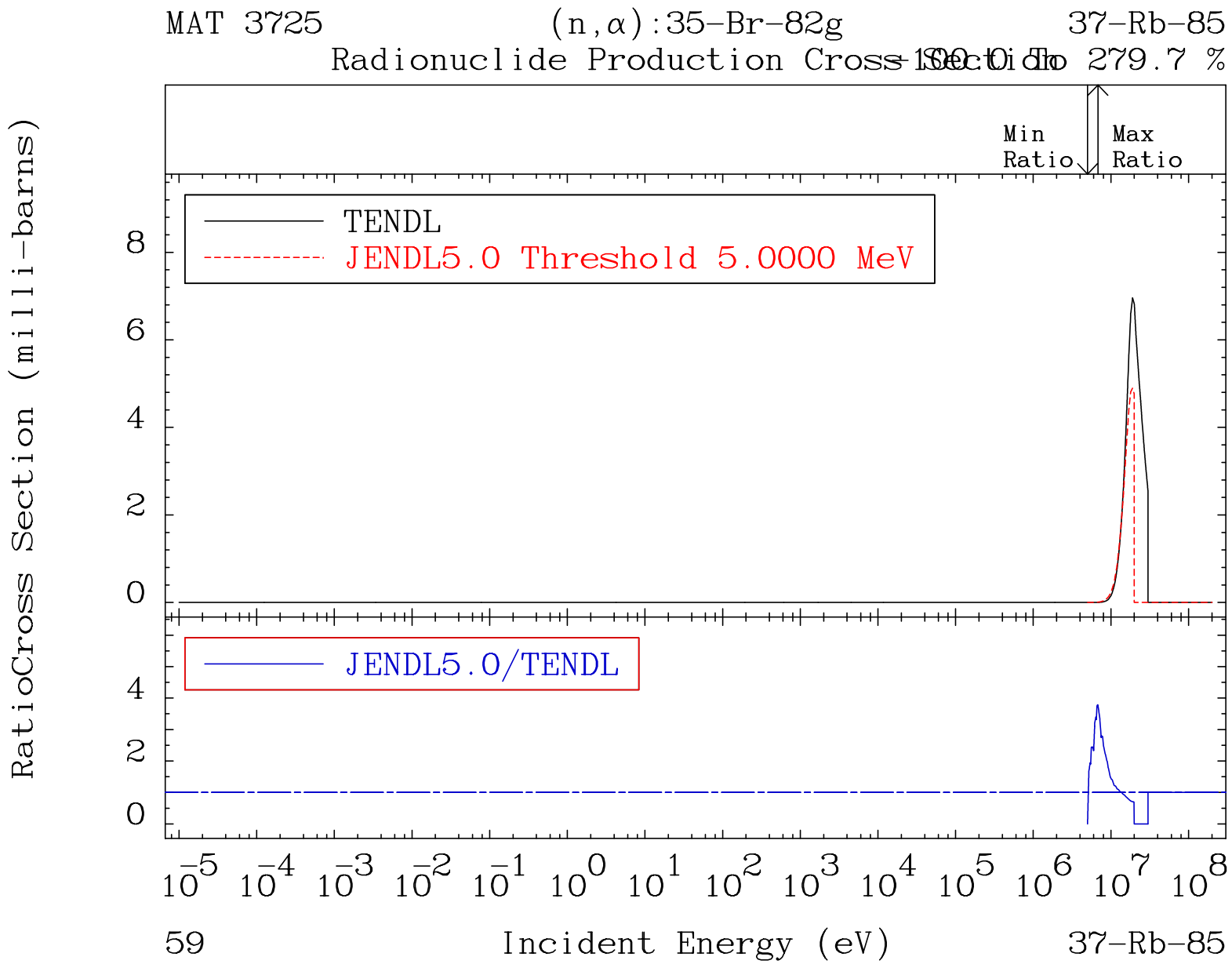

MAT 3725
(n,n') d:36-Kr-83m2
37-Rb-85
Radionuclide Production Cross Section To 361.1 %
Max
Ratio
TENDL Threshold 15.536 MeV
JENDL5.0 Threshold 17.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
37-Rb-85

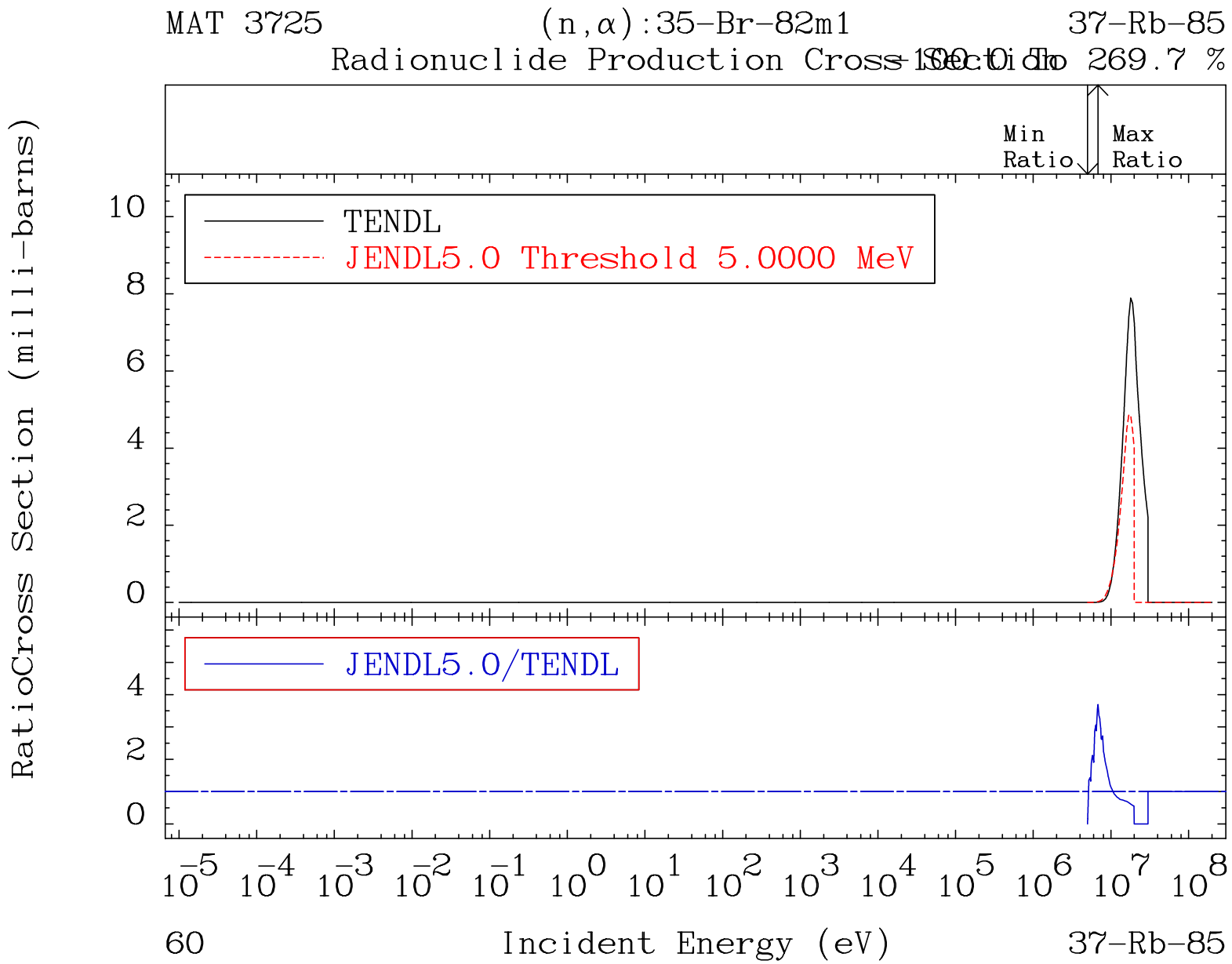

MAT 3725
(n,p):36-Kr-85g
37-Rb-85
Radionuclide Production Cross Section
Min Ratio = 100.0 To Max Ratio = 143.7 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 1.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
55
Incident Energy (eV)
37-Rb-85

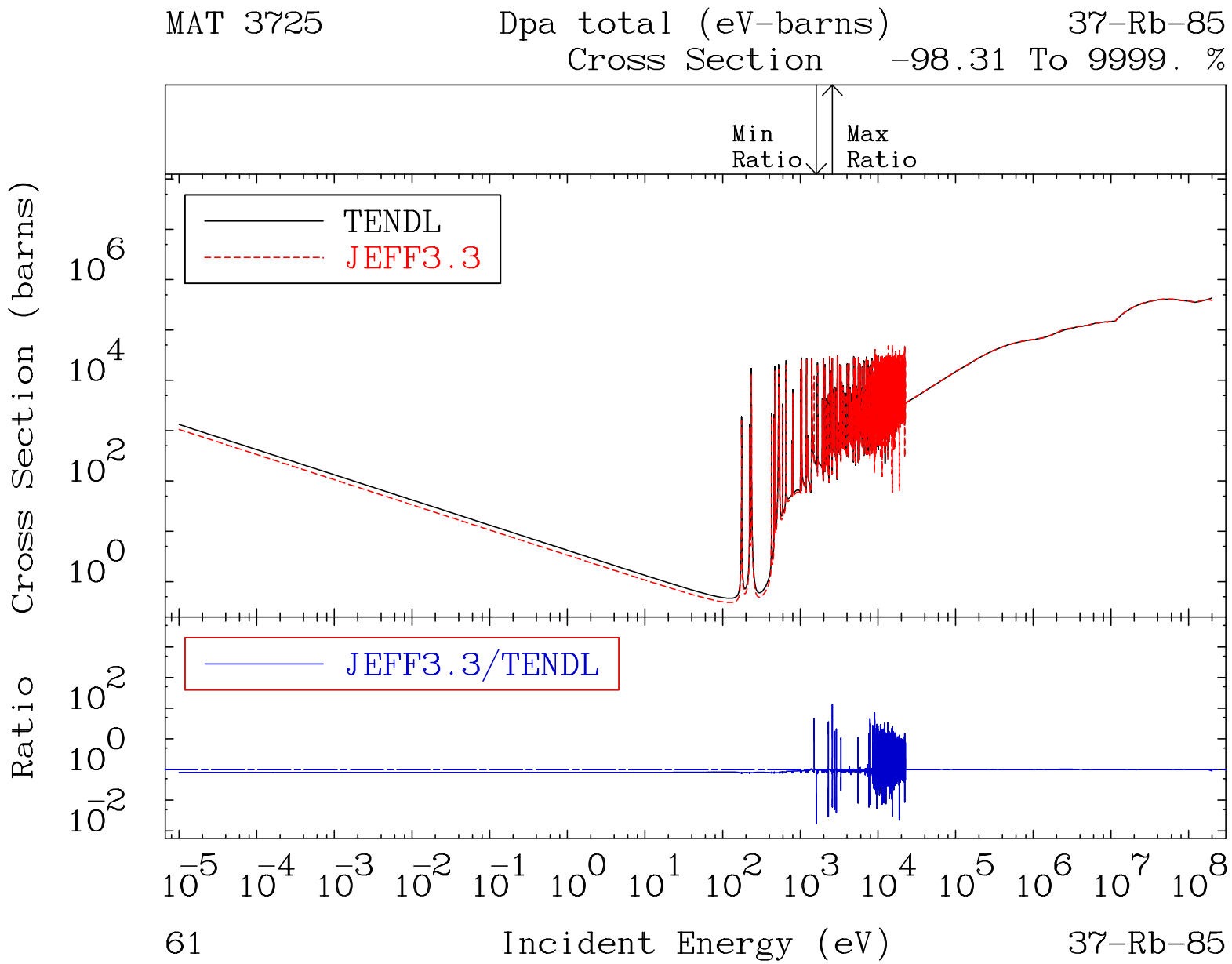

MAT 3725
(n,p):36-Kr-85m1
37-Rb-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 600.00 keV
JENDL5.0 Threshold 2.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
56
37-Rb-85

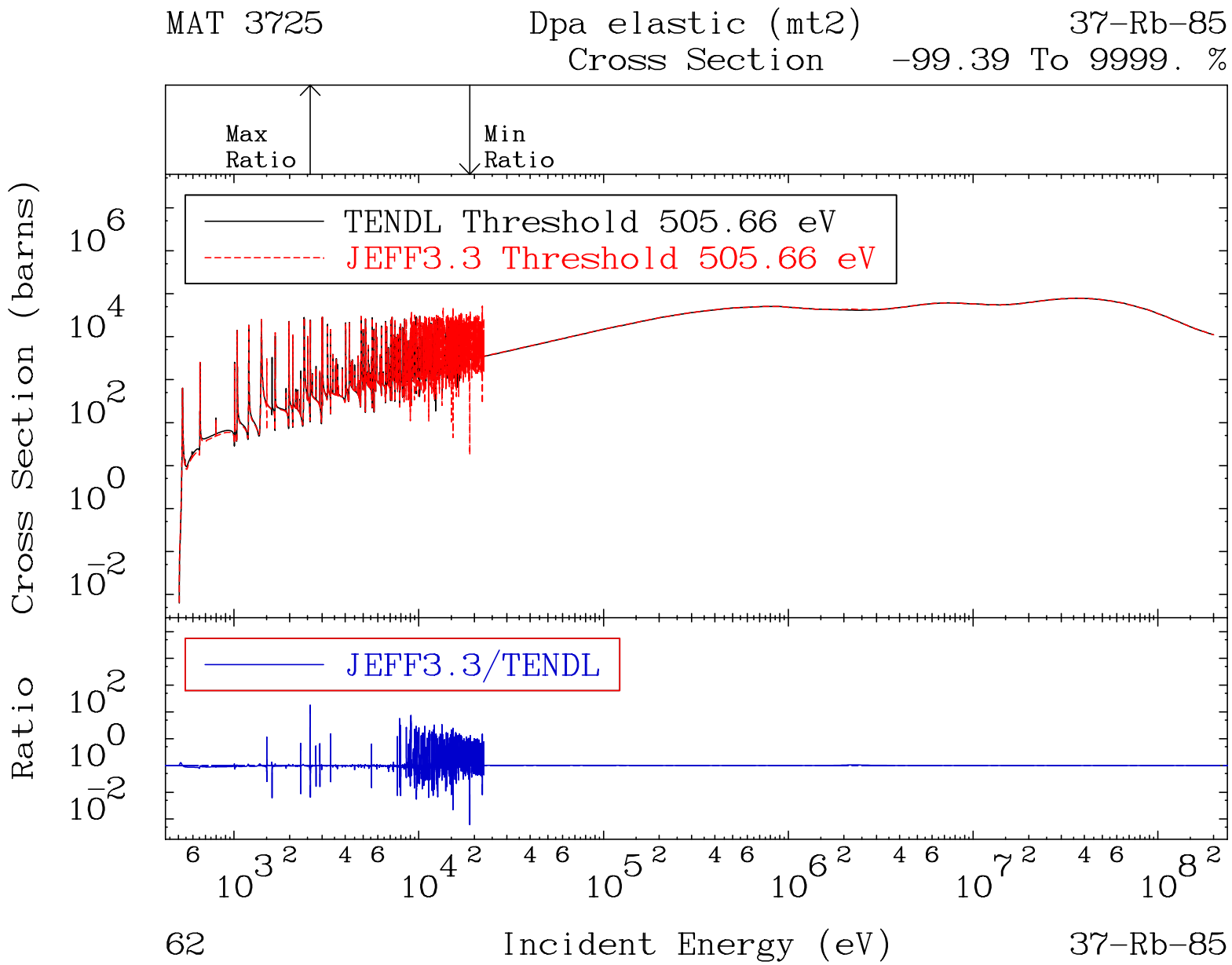

MAT 3725
(n,t):36-Kr-83g
37-Rb-85
Radionuclide Production Cross Section To 7580. %
Max
Ratio
TENDL Threshold 9.1627 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
57
37-Rb-85

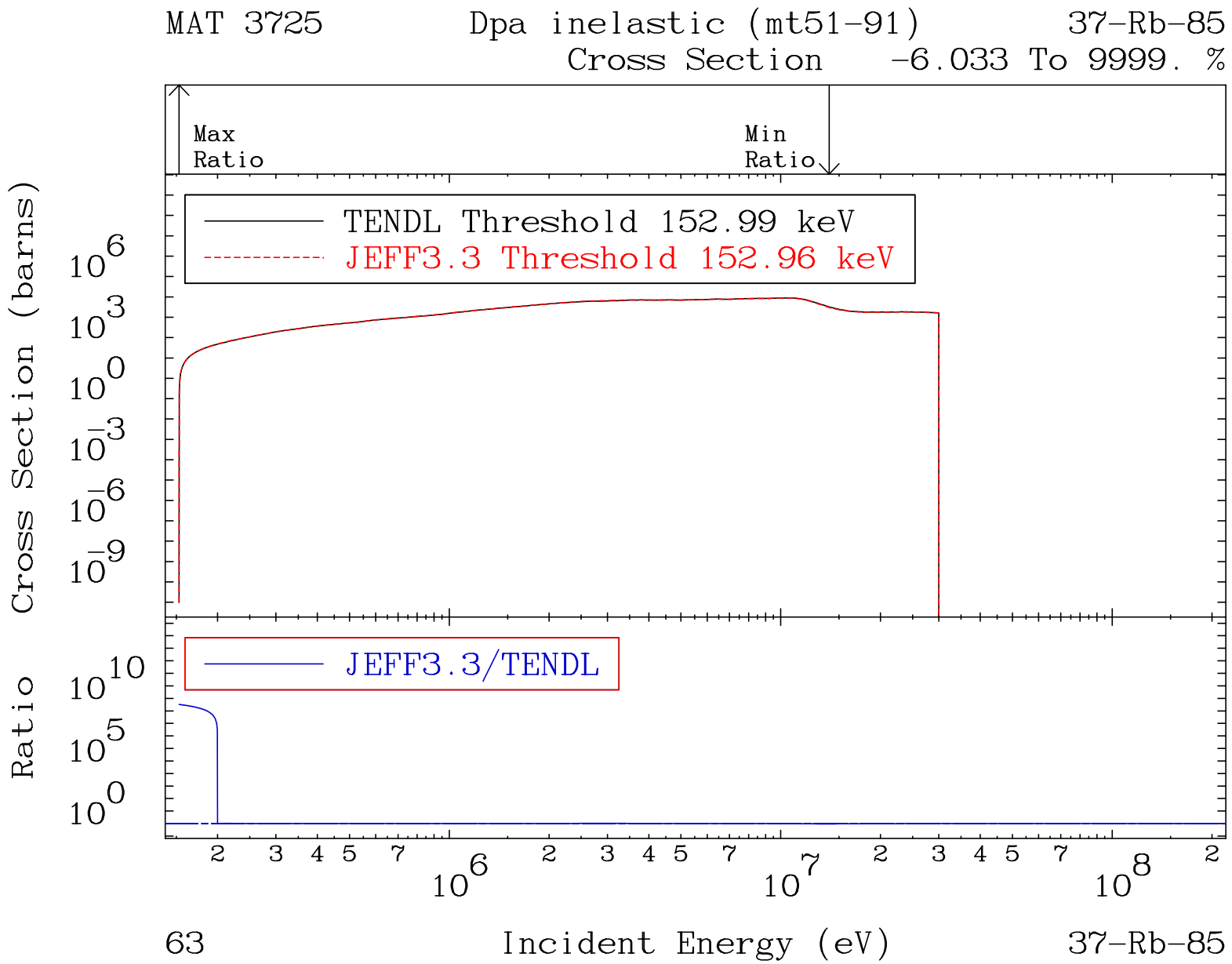

MAT 3725
(n,t):36-Kr-83m2
37-Rb-85
Radionuclide Production Cross Section To 7460. %
Max
Ratio
TENDL Threshold 9.2048 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
80
40
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
37-Rb-85

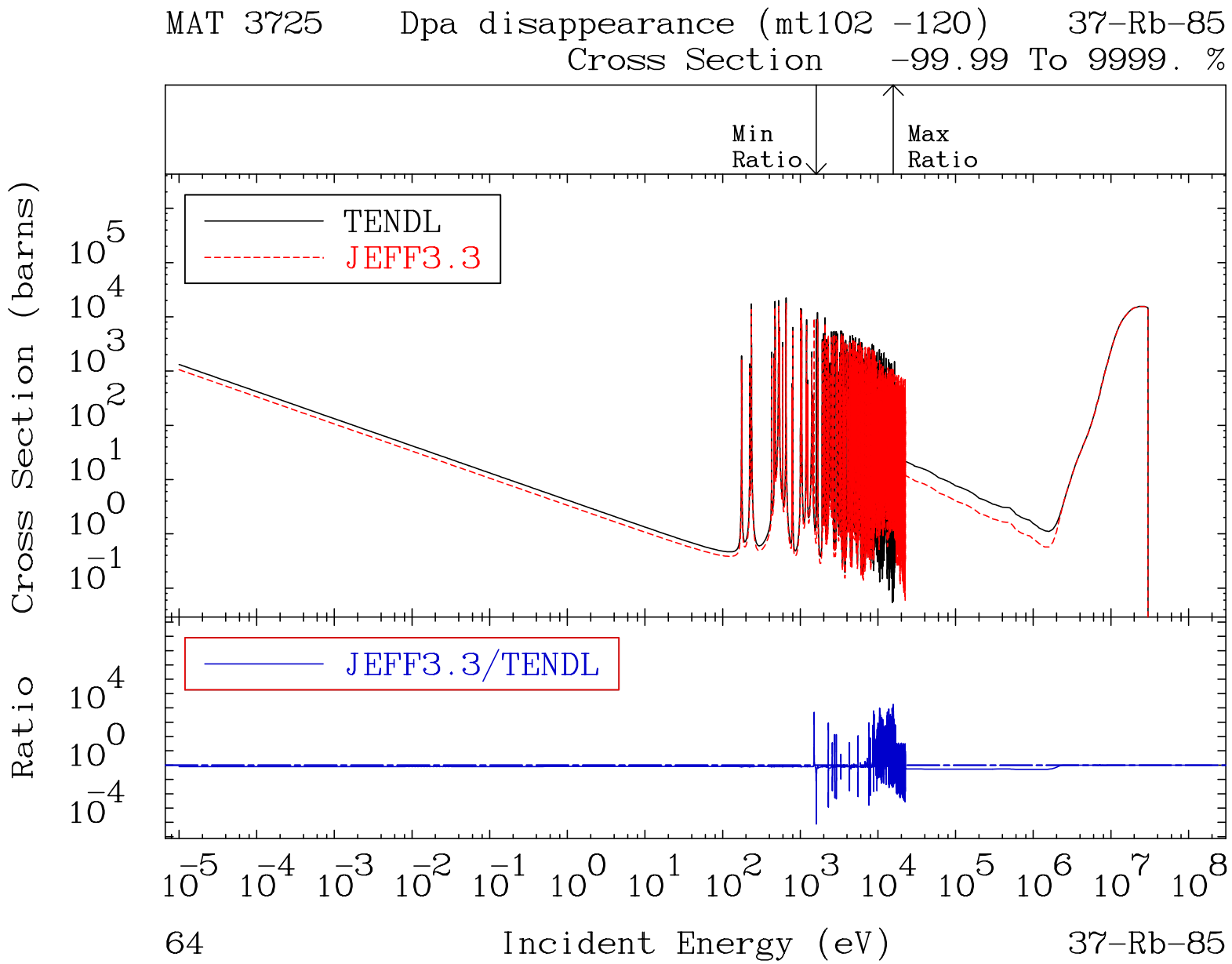

MAT 3725
(n,α):35-Br-82g
37-Rb-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
59
37-Rb-85

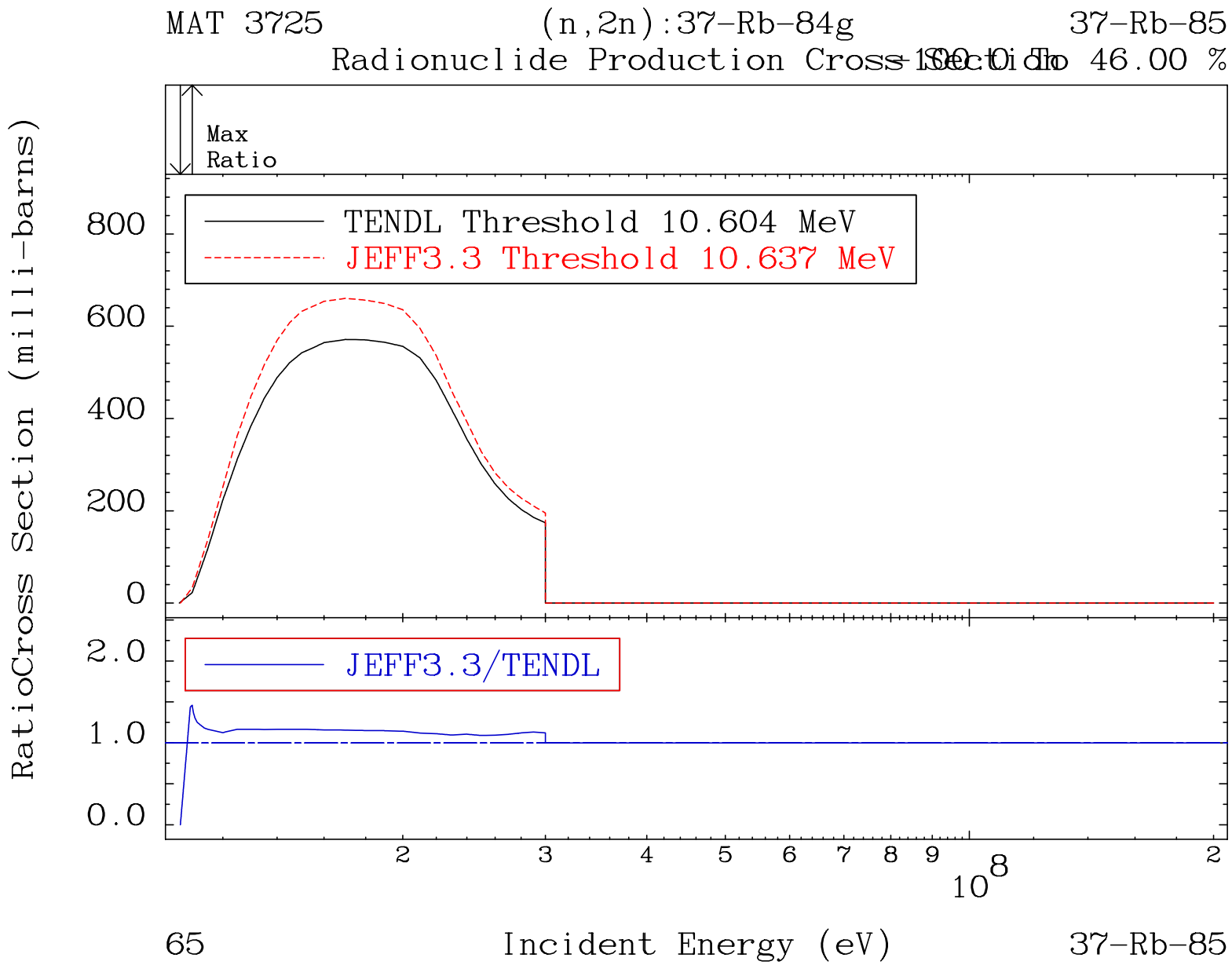

MAT 3725
(n,α):35-Br-82m1
37-Rb-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
60
37-Rb-85

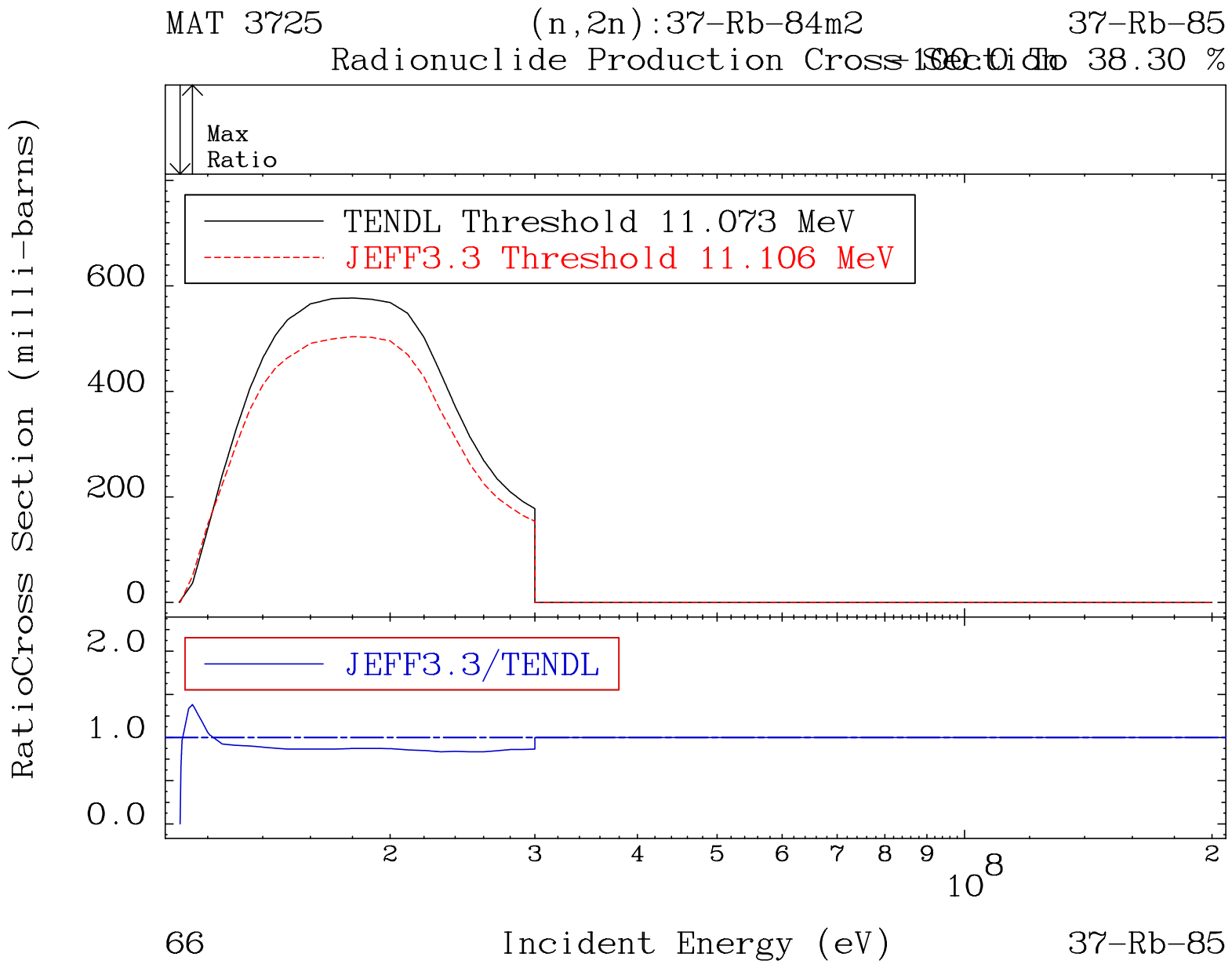

MAT 3725
Dpa total (eV-barns)
37-Rb-85
Cross Section -98.31 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
37-Rb-85

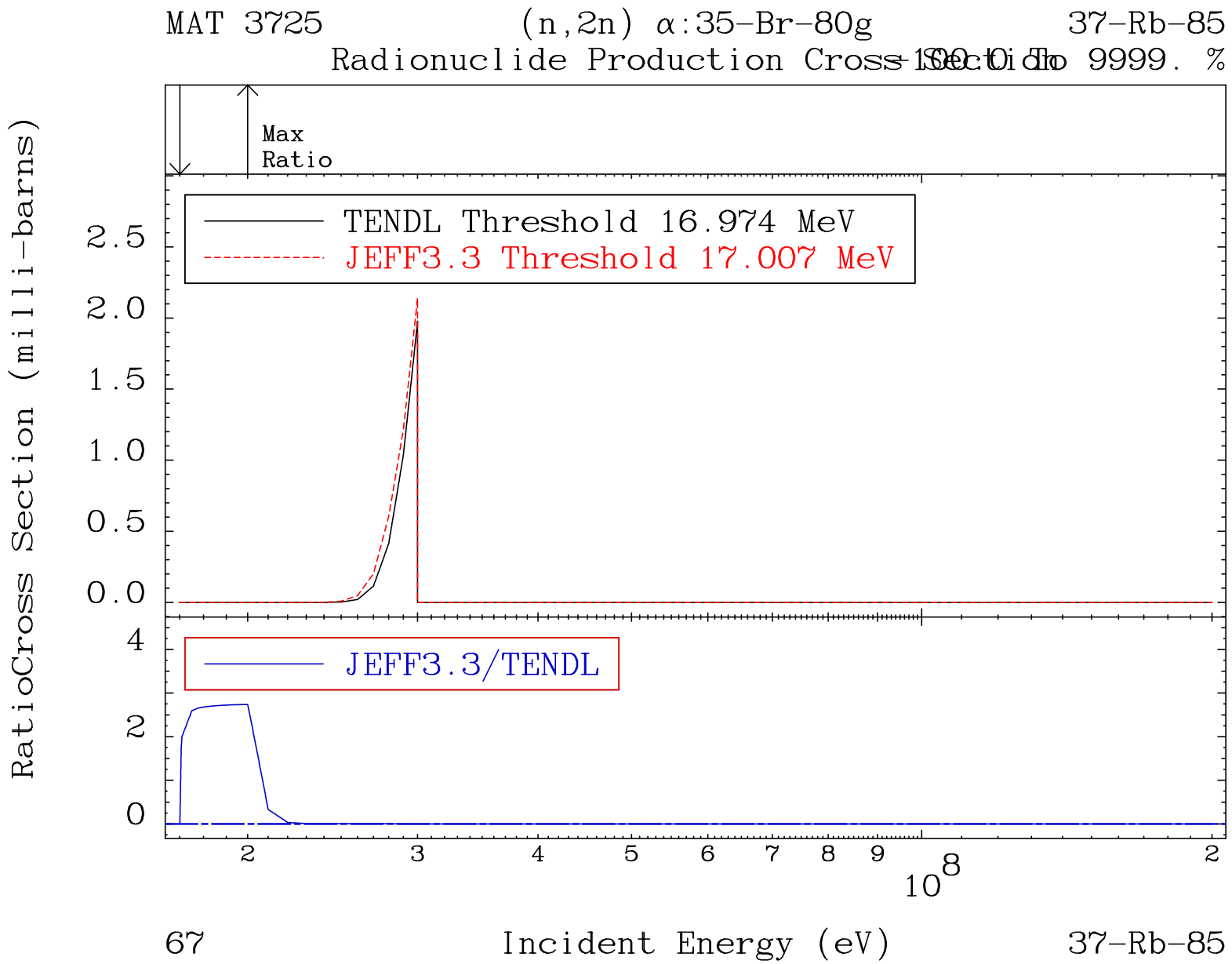

MAT 3725
Dpa elastic (mt2)
Cross Section
37-Rb-85
-99.39 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 505.66 eV
JEFF3.3 Threshold 505.66 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
37-Rb-85

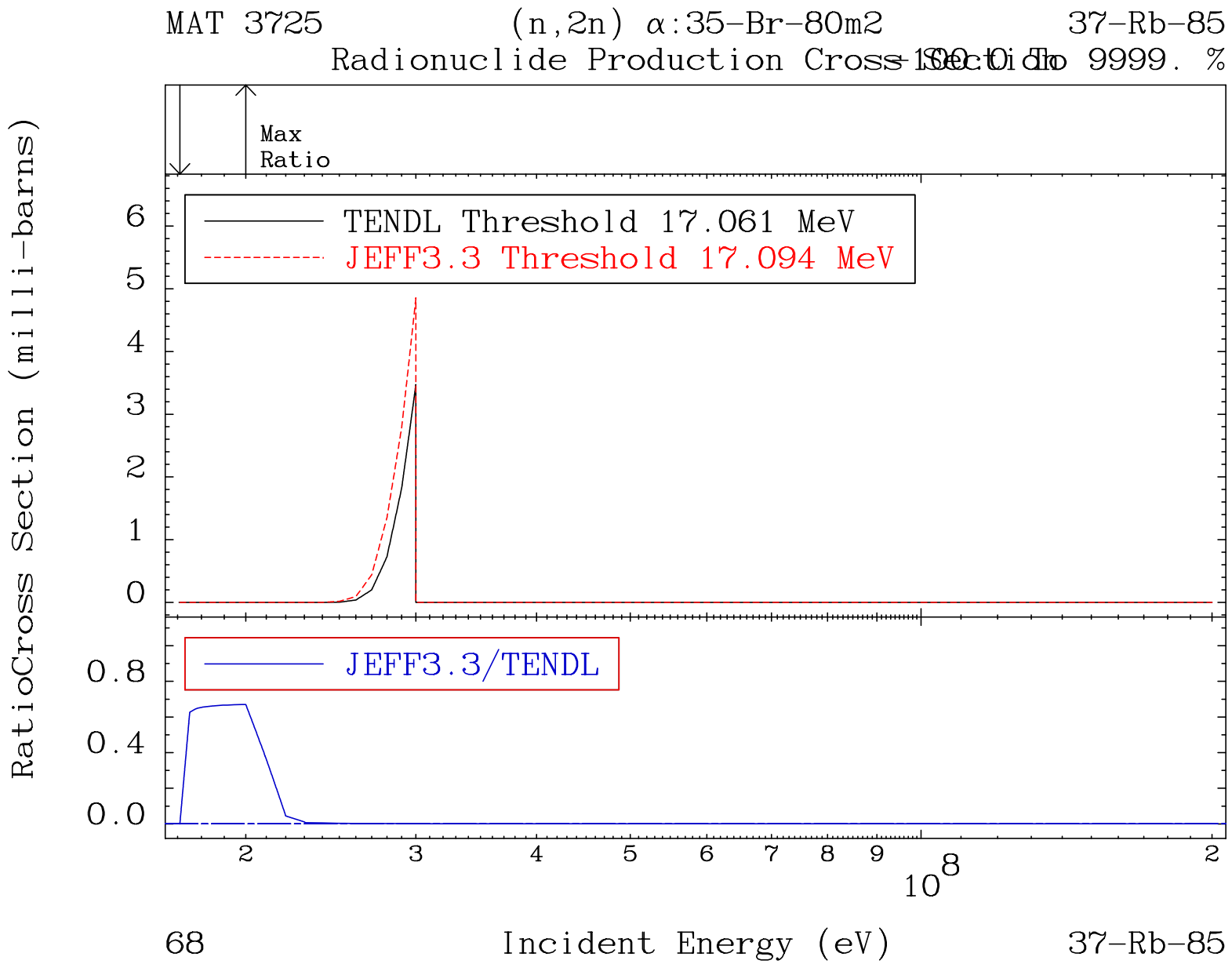

MAT 3725
Dpa inelastic (mt51-91)
37-Rb-85
Cross Section
-6.033 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 152.99 keV
JEFF3.3 Threshold 152.96 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
37-Rb-85

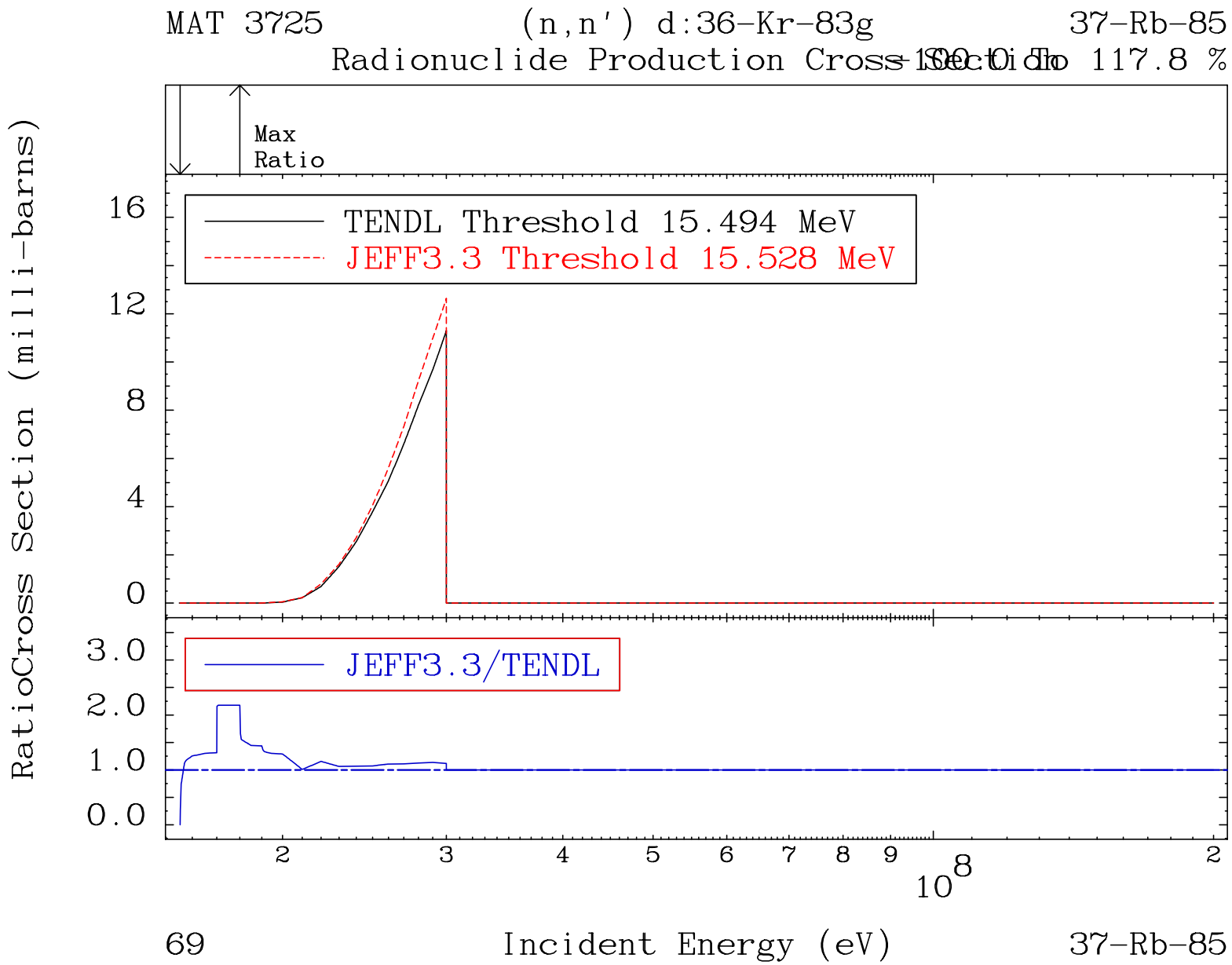

MAT 3725 Dpa disappearance (mt102 -120) 37-Rb-85
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
37-Rb-85

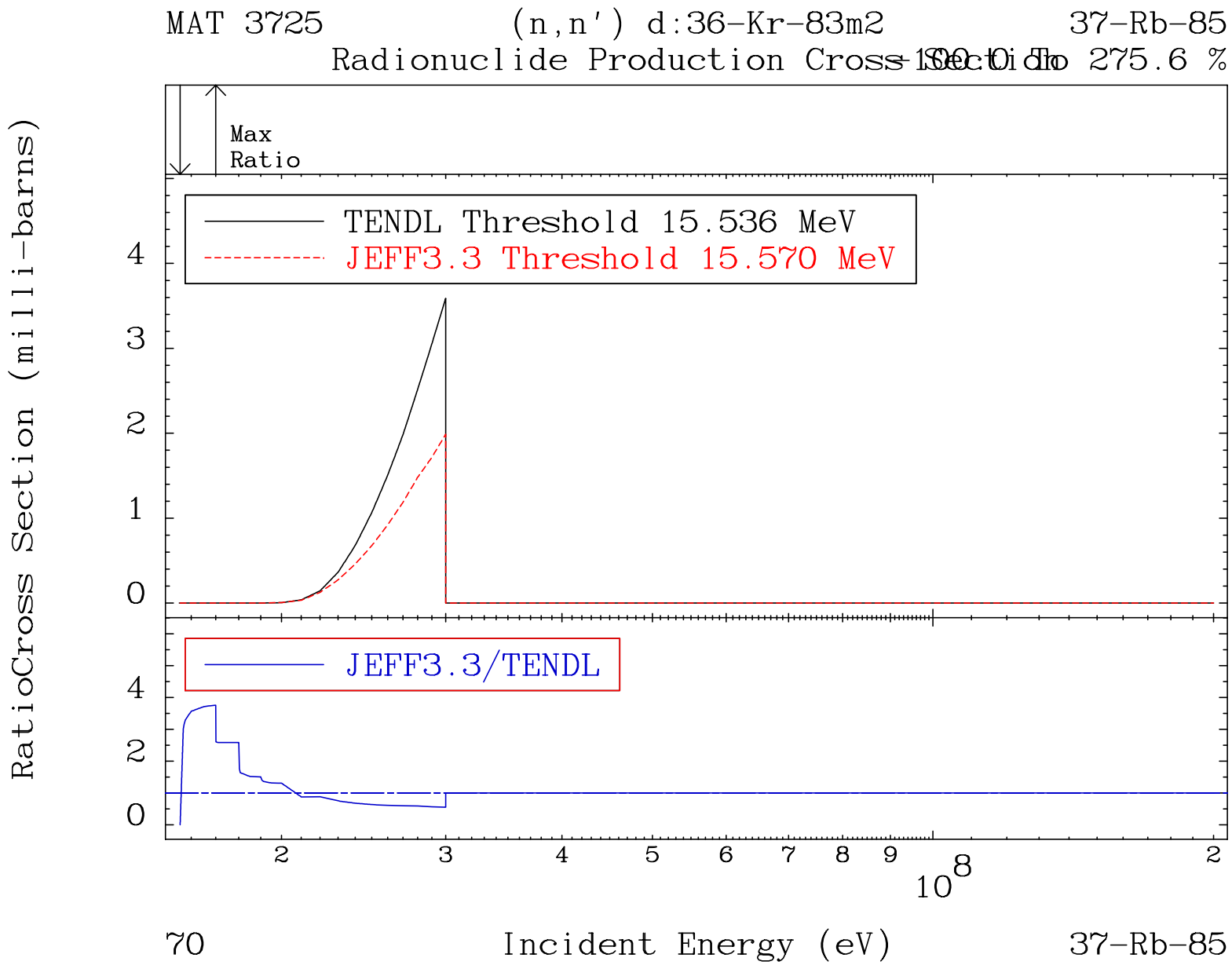

MAT 3725
(n,2n):37-Rb-84g
37-Rb-85
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 10.604 MeV
JEFF3.3 Threshold 10.637 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
65
Incident Energy (eV)
37-Rb-85

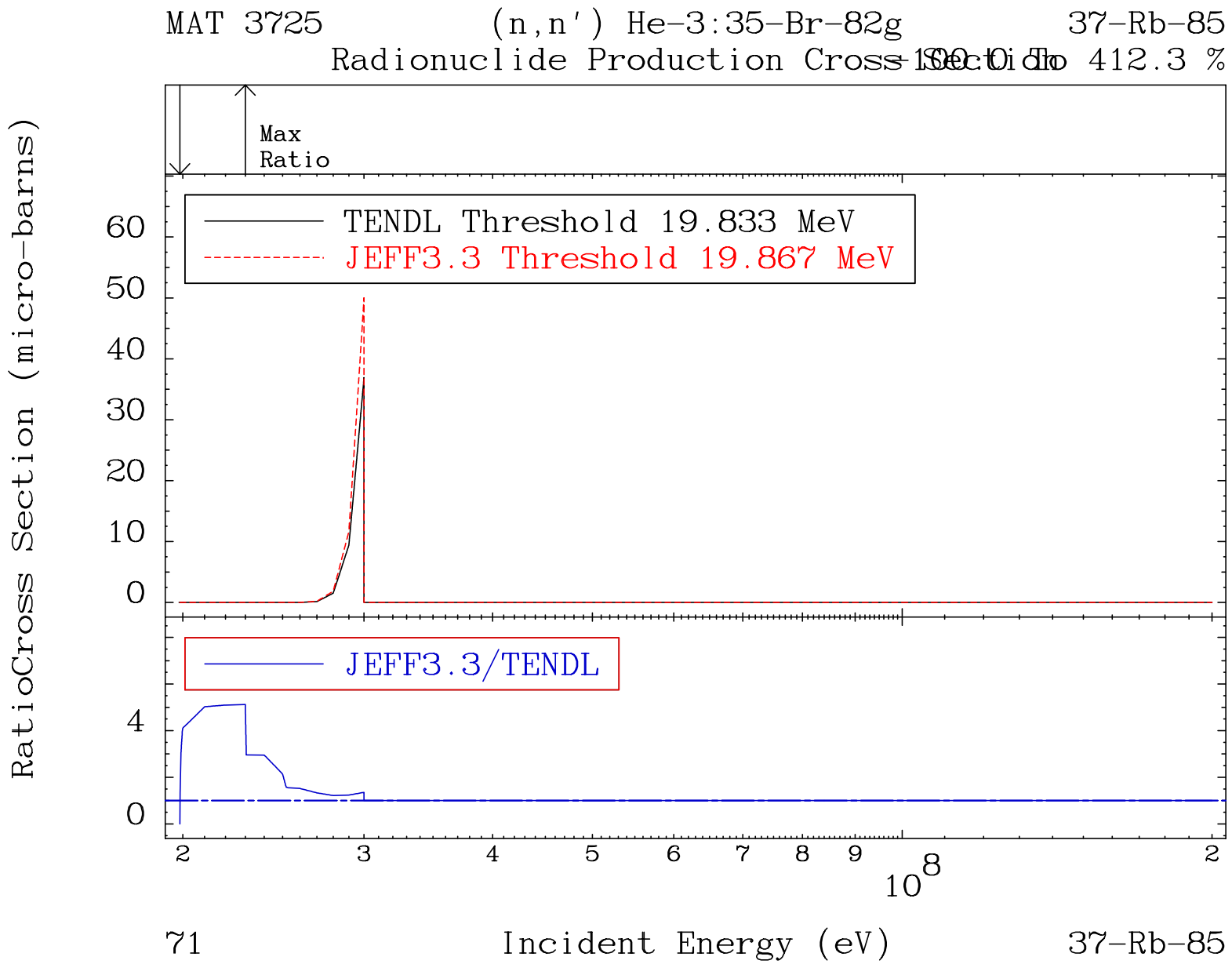

MAT 3725
(n,2n):37-Rb-84m2
37-Rb-85
Radionuclide Production Cross Section To 38.30 %
Max
Ratio
TENDL Threshold 11.073 MeV
JEFF3.3 Threshold 11.106 MeV
600
400
200
0
2.0
1.0
0.0
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2
3
4
5
6
7
8
9
2
10^8
66
Incident Energy (eV)
37-Rb-85

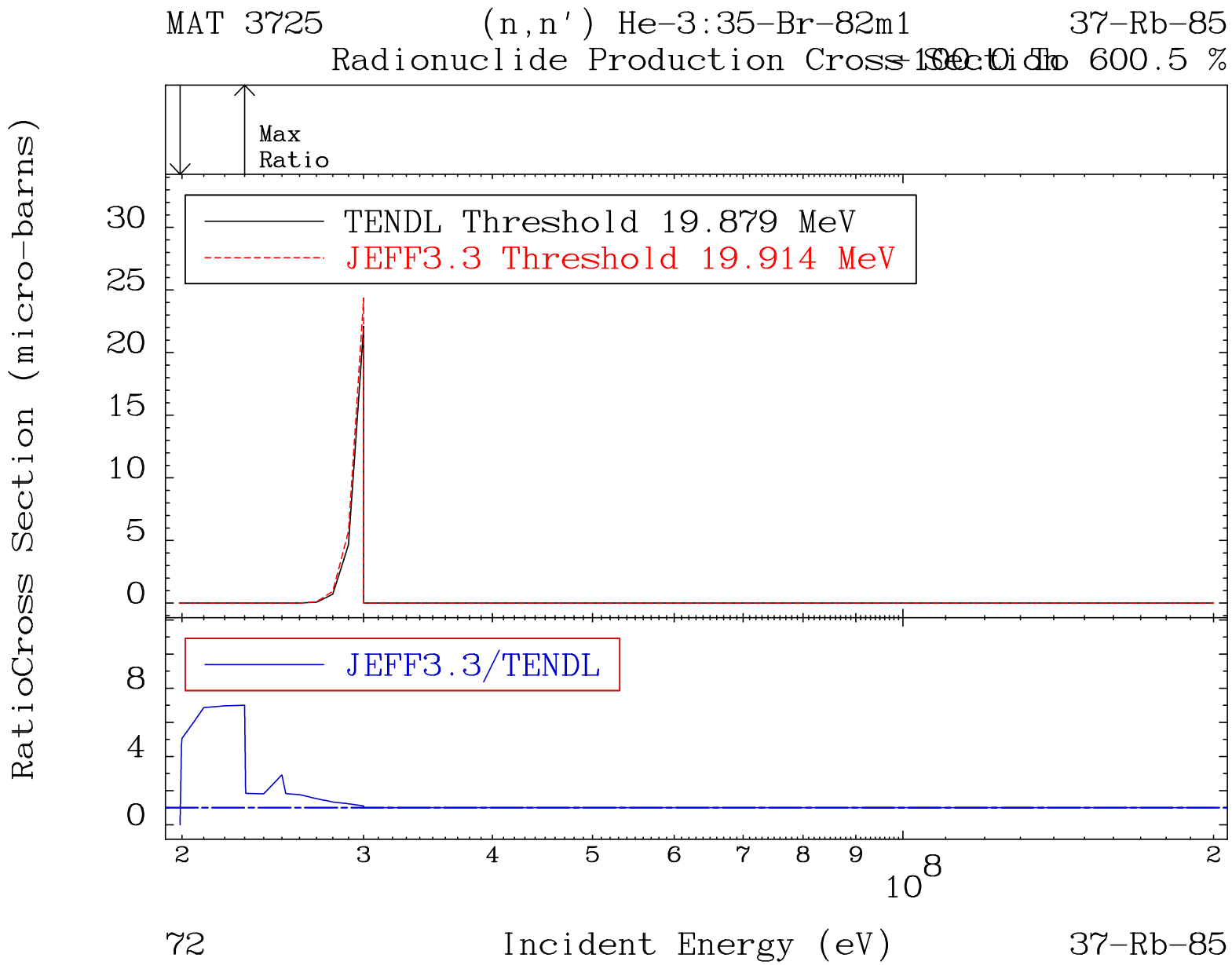

MAT 3725
(n,2n) α:35-Br-80g
37-Rb-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 16.974 MeV
JEFF3.3 Threshold 17.007 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
67
Incident Energy (eV)
37-Rb-85

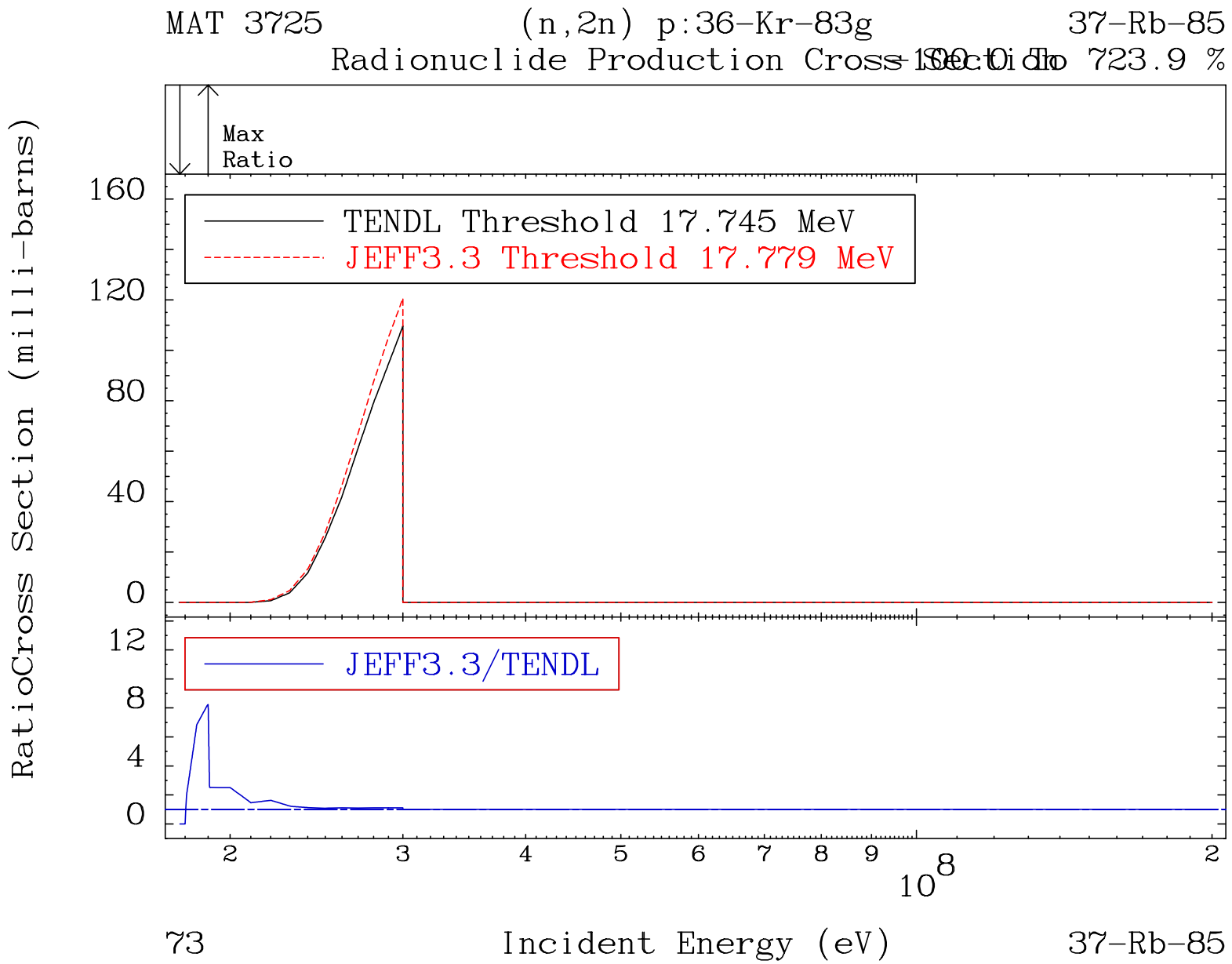

MAT 3725
(n,2n) α:35-Br-80m2
37-Rb-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 17.061 MeV
JEFF3.3 Threshold 17.094 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
6
5
4
3
2
1
0
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
37-Rb-85

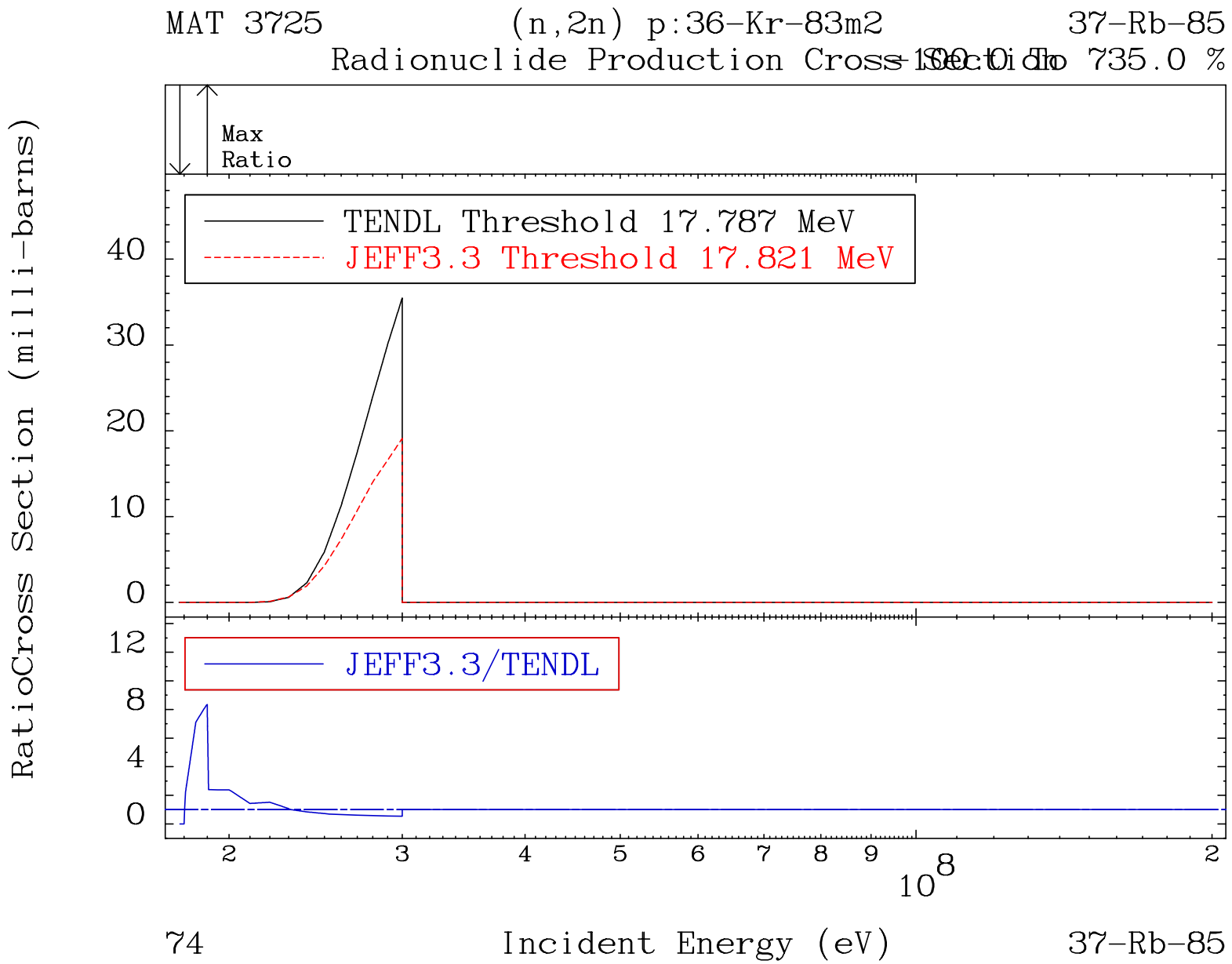

MAT 3725
(n,n') d:36-Kr-83g
37-Rb-85
Radionuclide Production Cross Section To 117.8 %
Max
Ratio
TENDL Threshold 15.494 MeV
JEFF3.3 Threshold 15.528 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
37-Rb-85

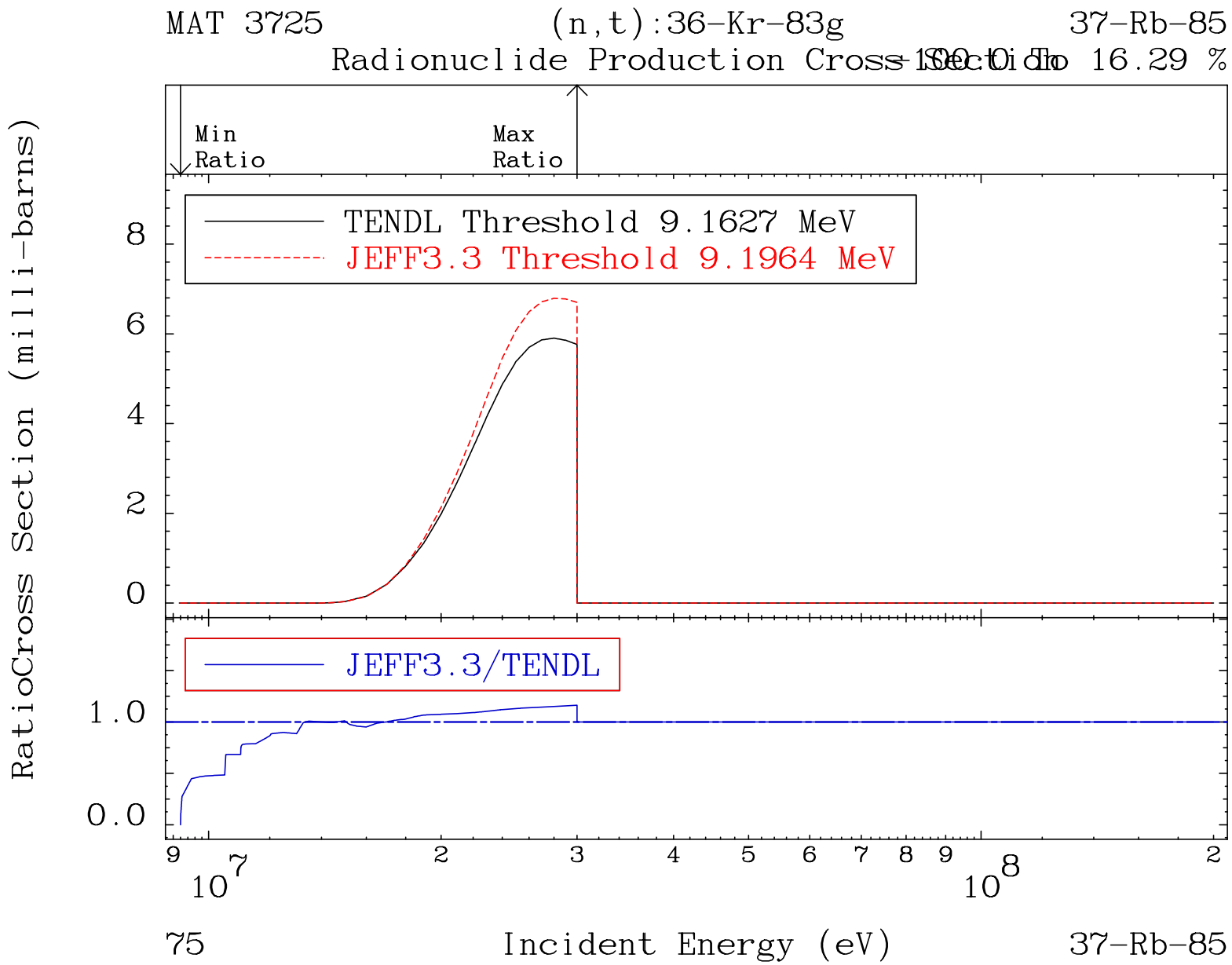

MAT 3725
(n,n') d:36-Kr-83m2
37-Rb-85
Radionuclide Production Cross Section To 275.6 %
Max
Ratio
TENDL Threshold 15.536 MeV
JEFF3.3 Threshold 15.570 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
37-Rb-85

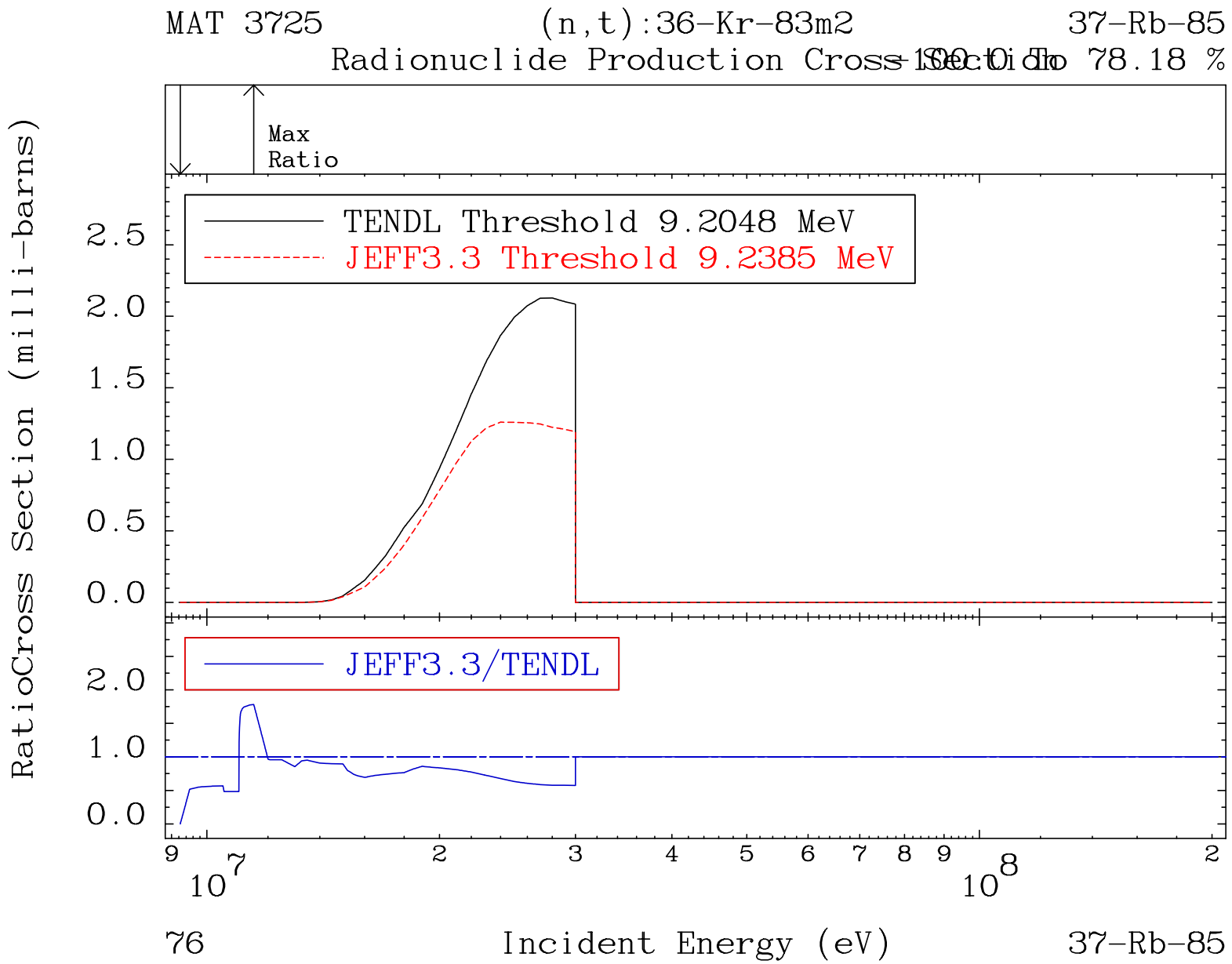

MAT 3725
(n,n') He-3:35-Br-82g
37-Rb-85
Radionuclide Production Cross Section To 412.3 %
Max
Ratio
TENDL Threshold 19.833 MeV
JEFF3.3 Threshold 19.867 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
60
50
40
30
20
10
0
4
0
2
3
4
5
6
7
8
9
10^8
2
71
Incident Energy (eV)
37-Rb-85

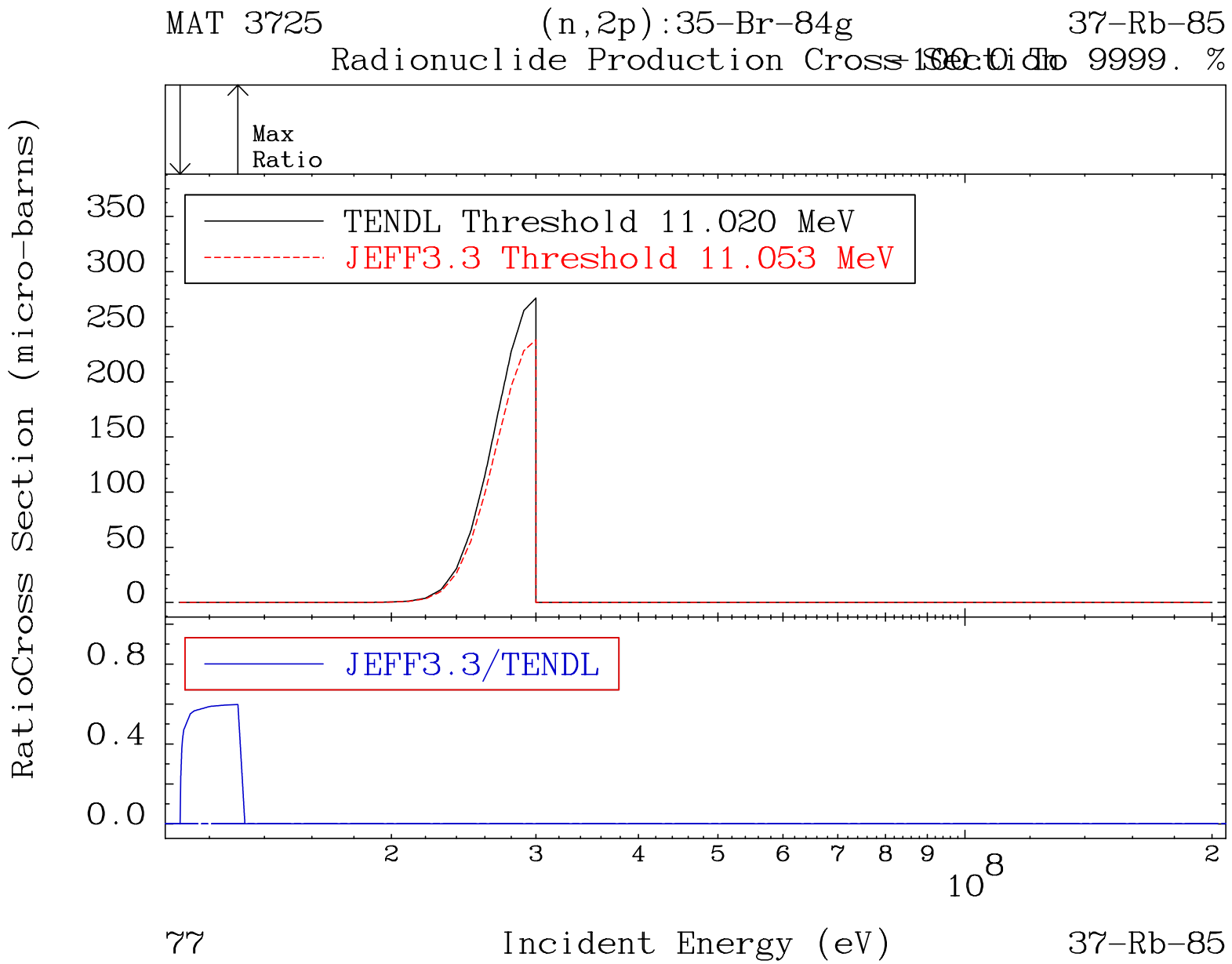

MAT 3725
(n,n') He-3:35-Br-82m1
37-Rb-85
Radionuclide Production Cross Section To 600.5 %
Max
Ratio
TENDL Threshold 19.879 MeV
JEFF3.3 Threshold 19.914 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
30
25
20
15
10
5
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
37-Rb-85

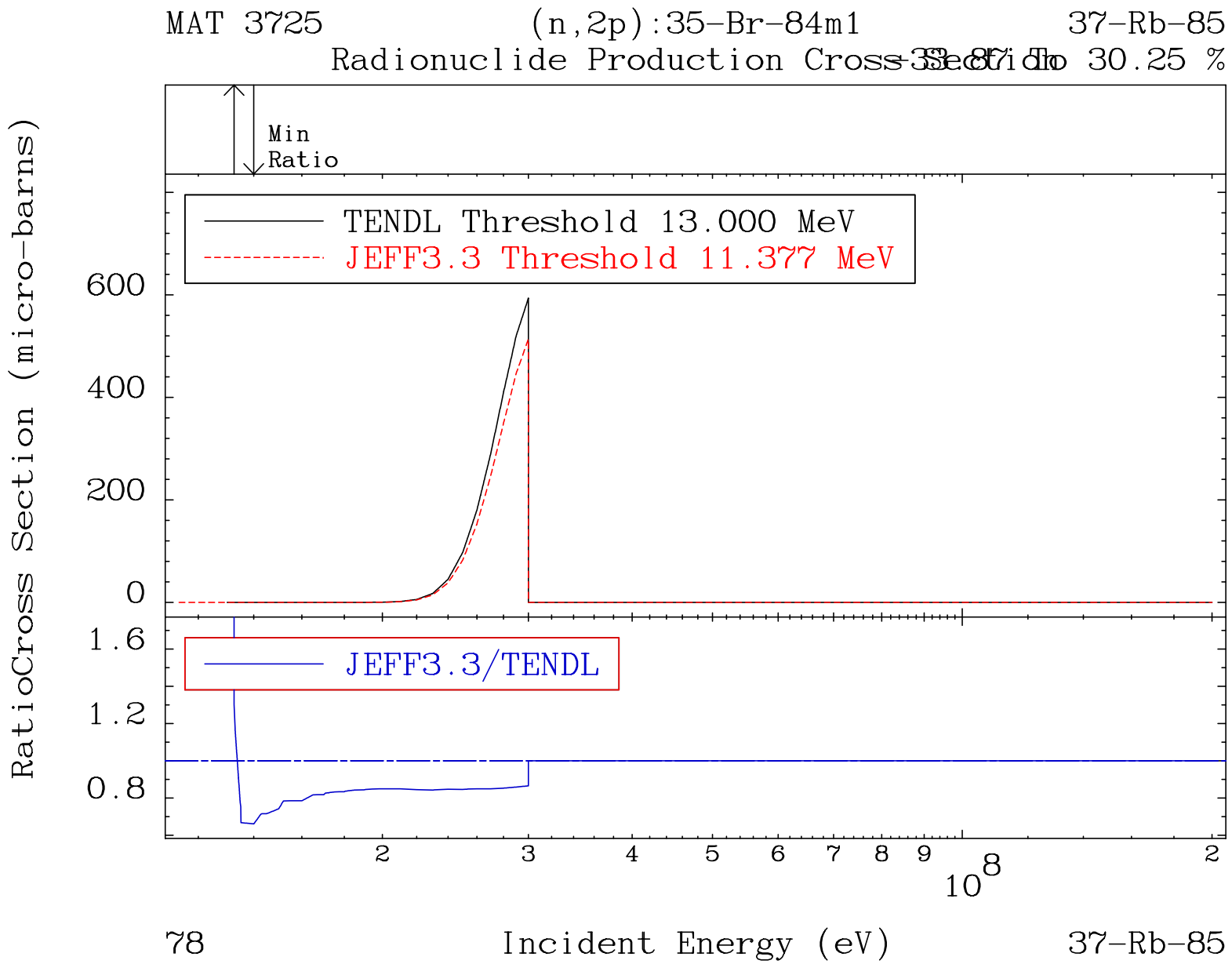

MAT 3725
(n,2n) p:36-Kr-83g
37-Rb-85
Radionuclide Production Cross Section To 723.9 %
Max
Ratio
160
120
80
40
0
TENDL Threshold 17.745 MeV
JEFF3.3 Threshold 17.779 MeV
12
8
4
0
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
73
Incident Energy (eV)
37-Rb-85

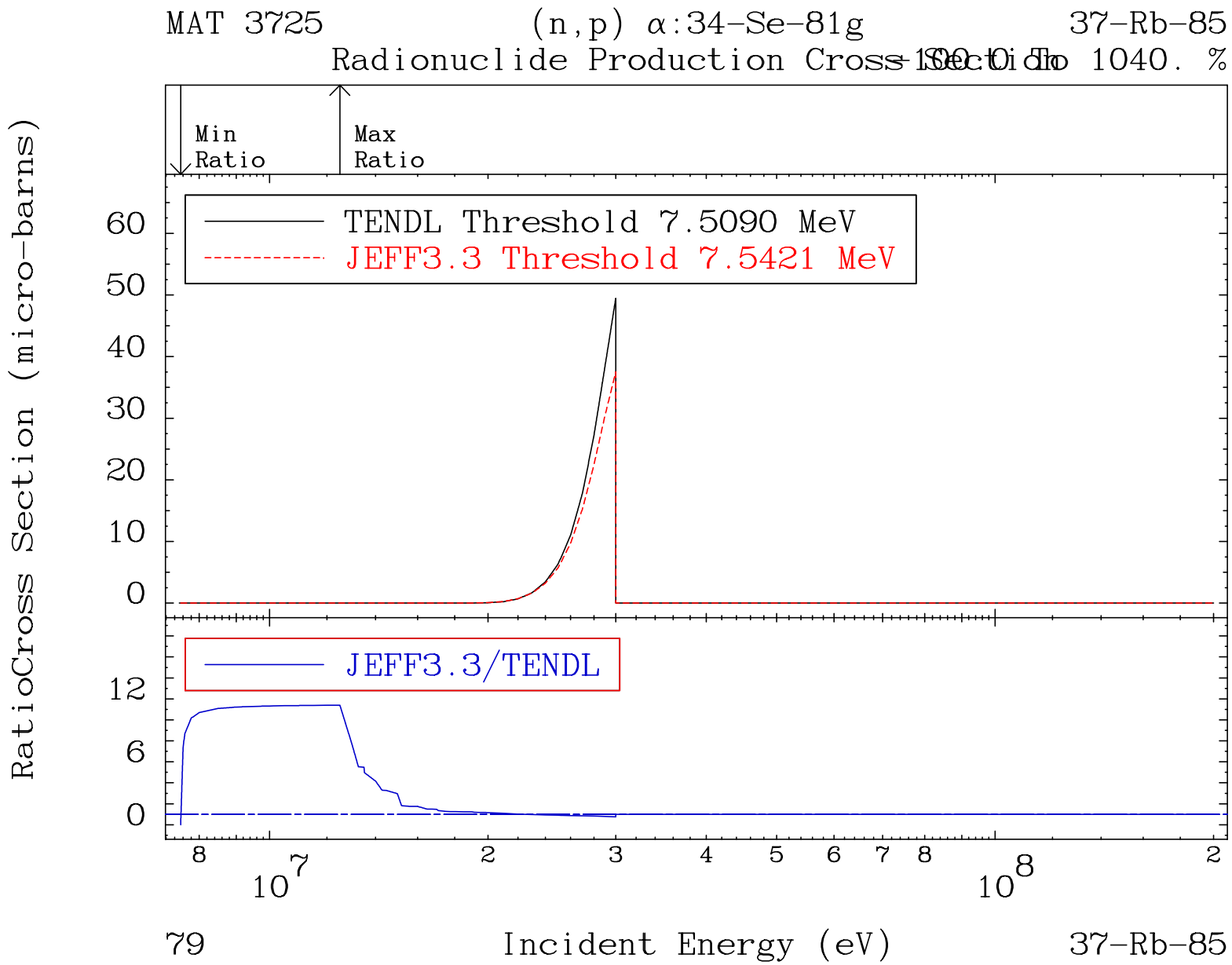

MAT 3725
(n,2n) p:36-Kr-83m2
37-Rb-85
Radionuclide Production Cross Section To 735.0 %
Max
Ratio
TENDL Threshold 17.787 MeV
JEFF3.3 Threshold 17.821 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
12
8
4
0
2
3
4
5
6
7
8
9
2
10^8
74
Incident Energy (eV)
37-Rb-85

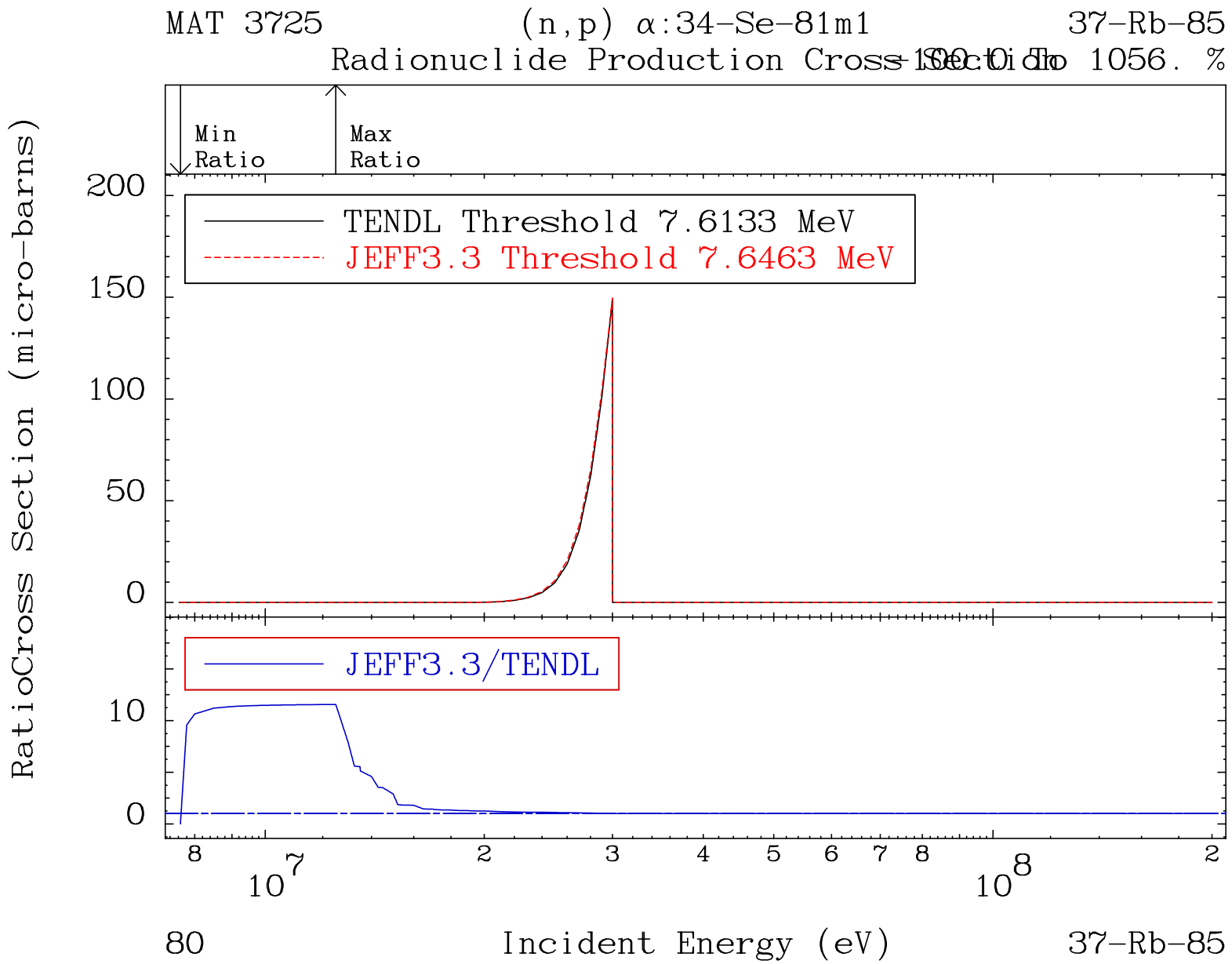

MAT 3725
(n,t):36-Kr-83g
37-Rb-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 9.1627 MeV
JEFF3.3 Threshold 9.1964 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
75
37-Rb-85

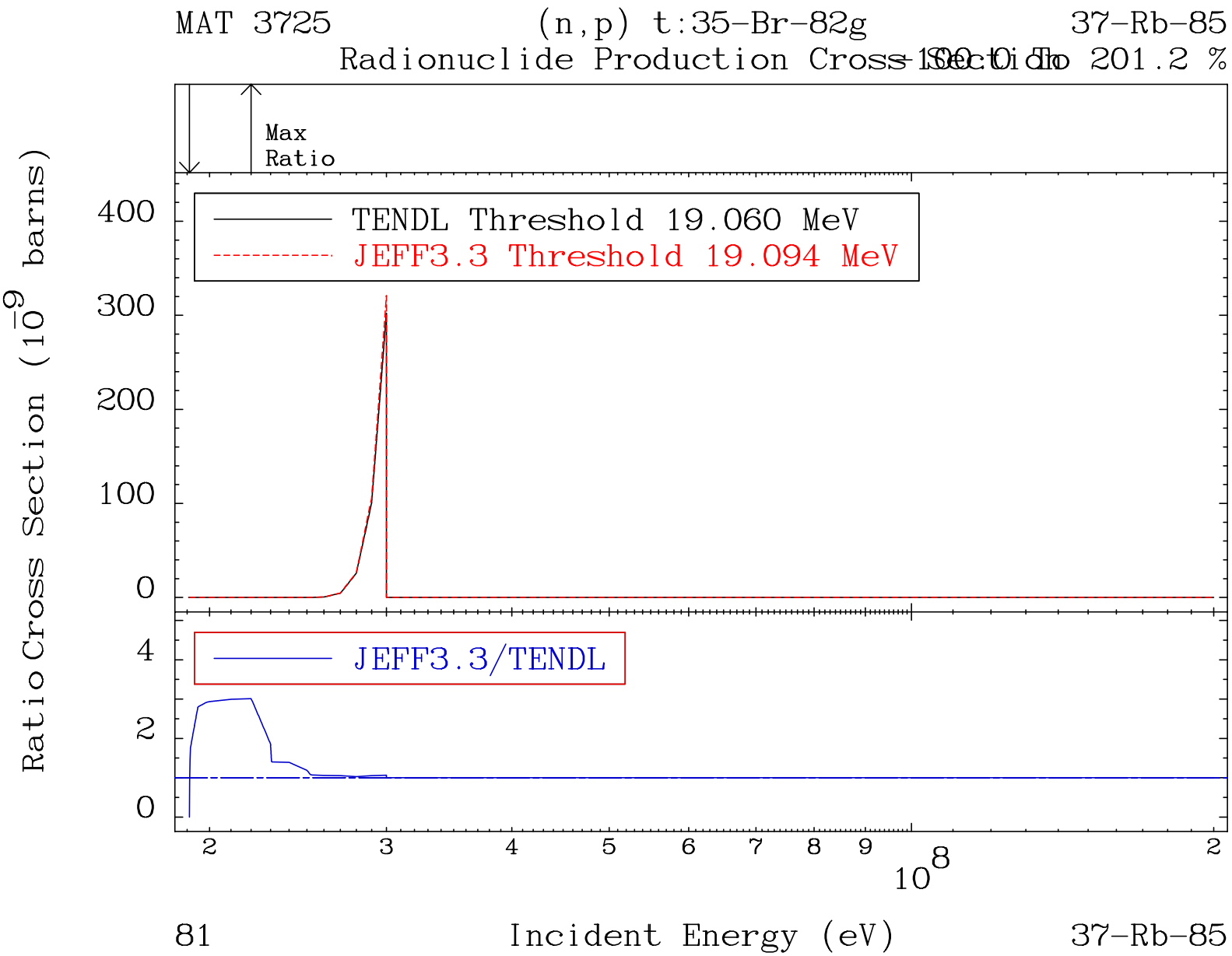

MAT 3725
(n,t):36-Kr-83m2
37-Rb-85
Radionuclide Production Cross Section To 78.18 %
Max
Ratio
TENDL Threshold 9.2048 MeV
JEFF3.3 Threshold 9.2385 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
37-Rb-85

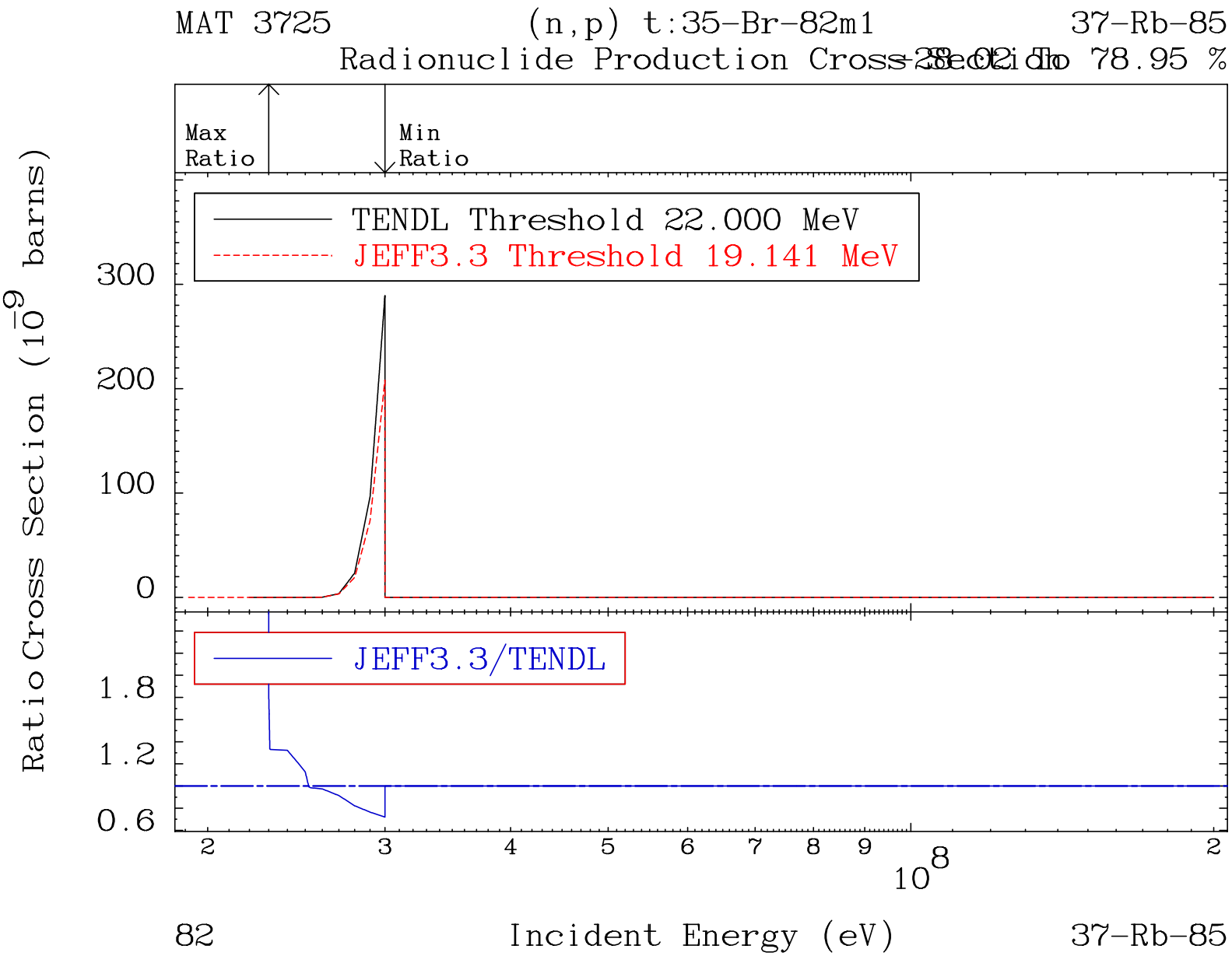

MAT 3725
(n,2p):35-Br-84g
37-Rb-85
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 11.020 MeV
JEFF3.3 Threshold 11.053 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
350
300
250
200
150
100
50
0
0.8
0.4
0.0
2
3
4
5
6
7
8
9
2
10^8
77
Incident Energy (eV)
37-Rb-85


MAT 3725
(n,2p):35-Br-84m1
37-Rb-85
Radionuclide Production Cross Section To 30.25 %
Min
Ratio
TENDL Threshold 13.000 MeV
JEFF3.3 Threshold 11.377 MeV
600
400
200
0
1.6
1.2
0.8
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (micro-barns)
78
Incident Energy (eV)
37-Rb-85


MAT 3725
(n,p) α:34-Se-81g
37-Rb-85
Radionuclide Production Cross Section To 1040. %
Min Ratio
Max Ratio
TENDL Threshold 7.5090 MeV
JEFF3.3 Threshold 7.5421 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
60
50
40
30
20
10
0
12
6
0
8
2
3
4
5
6
7
8
2
10^7
10^8
79
Incident Energy (eV)
37-Rb-85


MAT 3725
(n,p) α:34-Se-81m1
37-Rb-85
Radionuclide Production Cross Section To 1056. %
Min Ratio
Max Ratio
TENDL Threshold 7.6133 MeV
JEFF3.3 Threshold 7.6463 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
200
150
100
50
0
10
0
8
10^7
2
3
4
5
6
7
8
10^8
2
80
Incident Energy (eV)
37-Rb-85


MAT 3725
(n,p) t:35-Br-82g
37-Rb-85
Radionuclide Production Cross Section To 201.2 %
Max
Ratio
TENDL Threshold 19.060 MeV
JEFF3.3 Threshold 19.094 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
400
300
200
100
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
37-Rb-85


MAT 3725
(n,p) t:35-Br-82m1
37-Rb-85
Radionuclide Production Cross Section To 78.95 %
Max Ratio
Min Ratio
TENDL Threshold 22.000 MeV
JEFF3.3 Threshold 19.141 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
300
200
100
0
1.8
1.2
0.6
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
37-Rb-85