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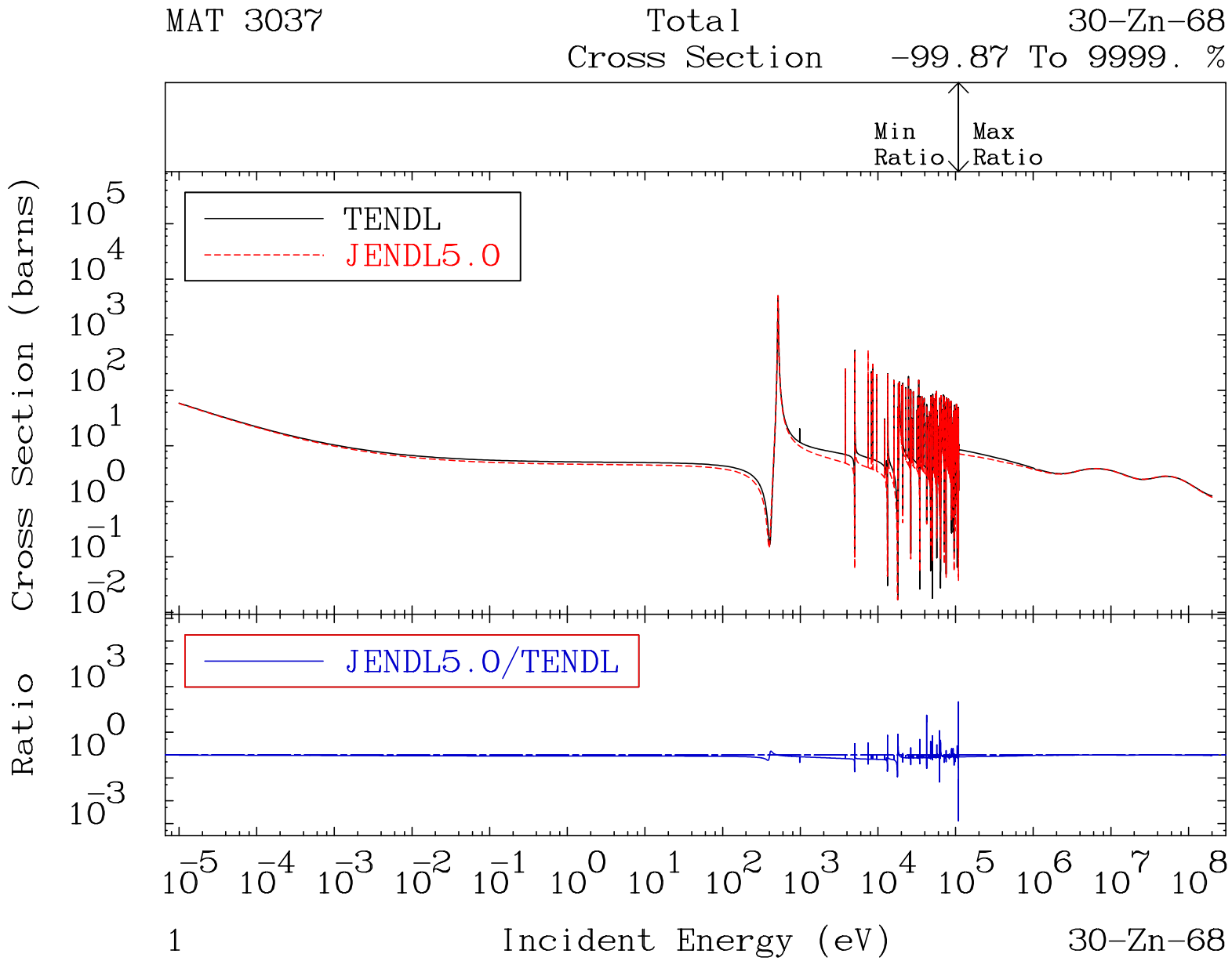
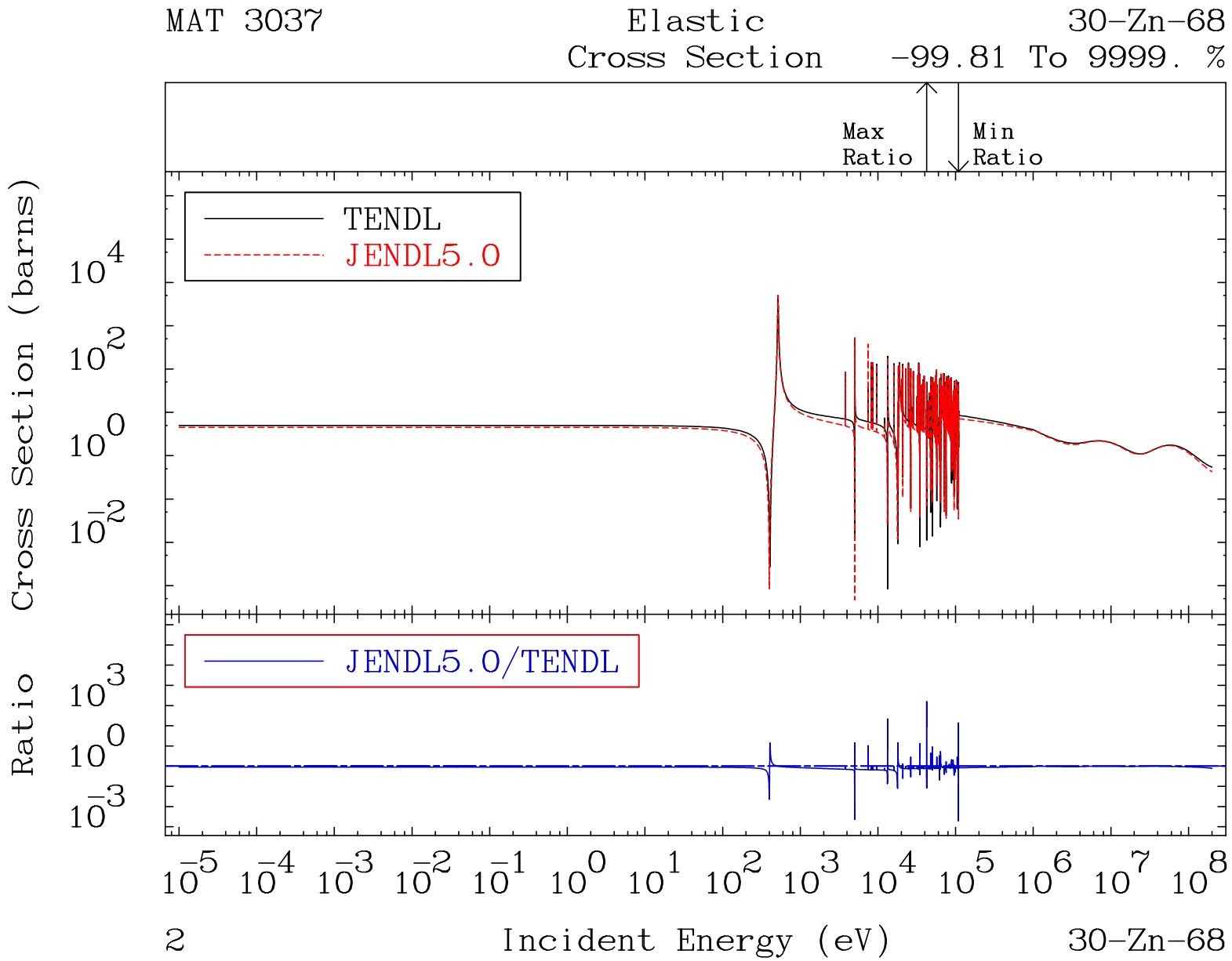
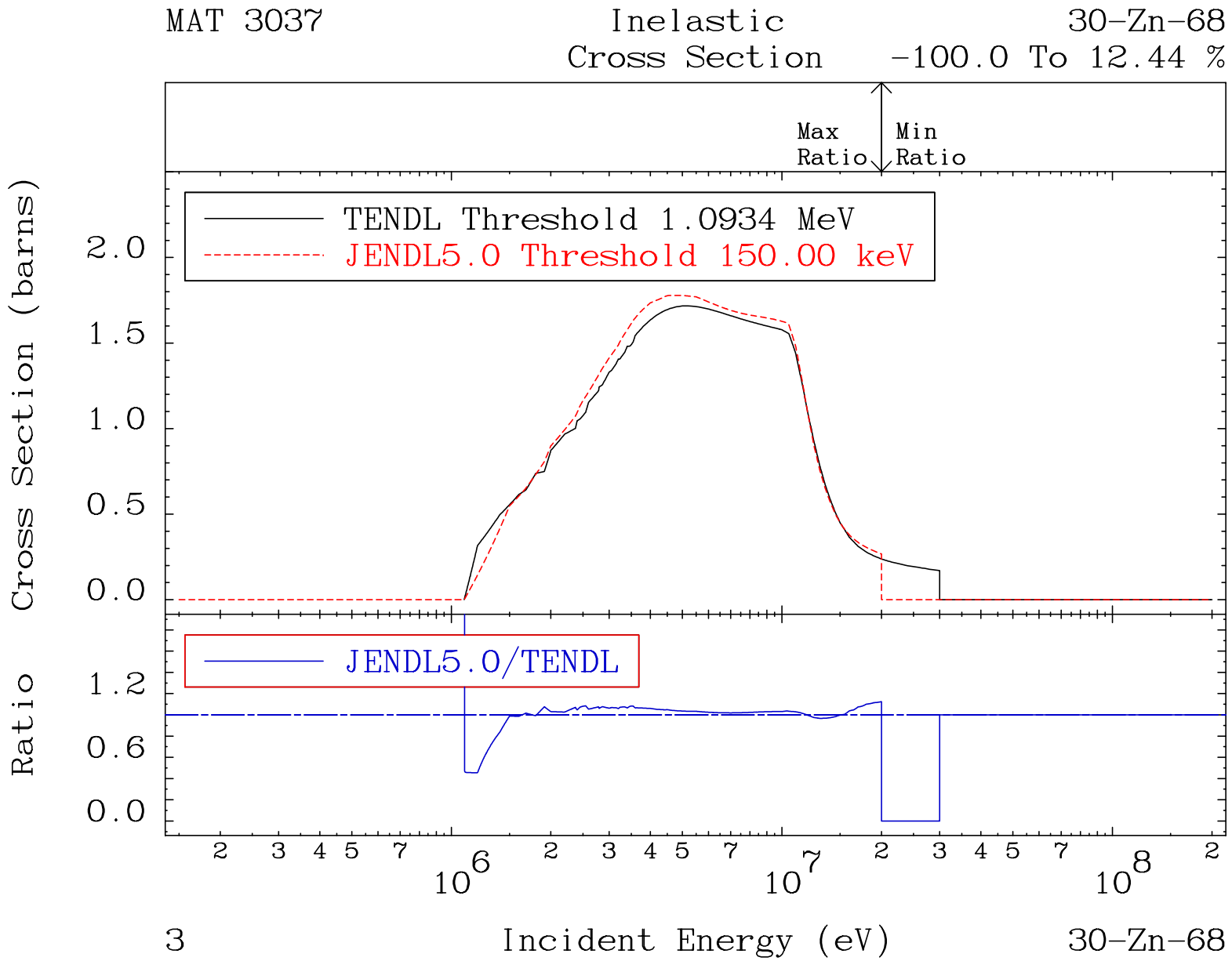
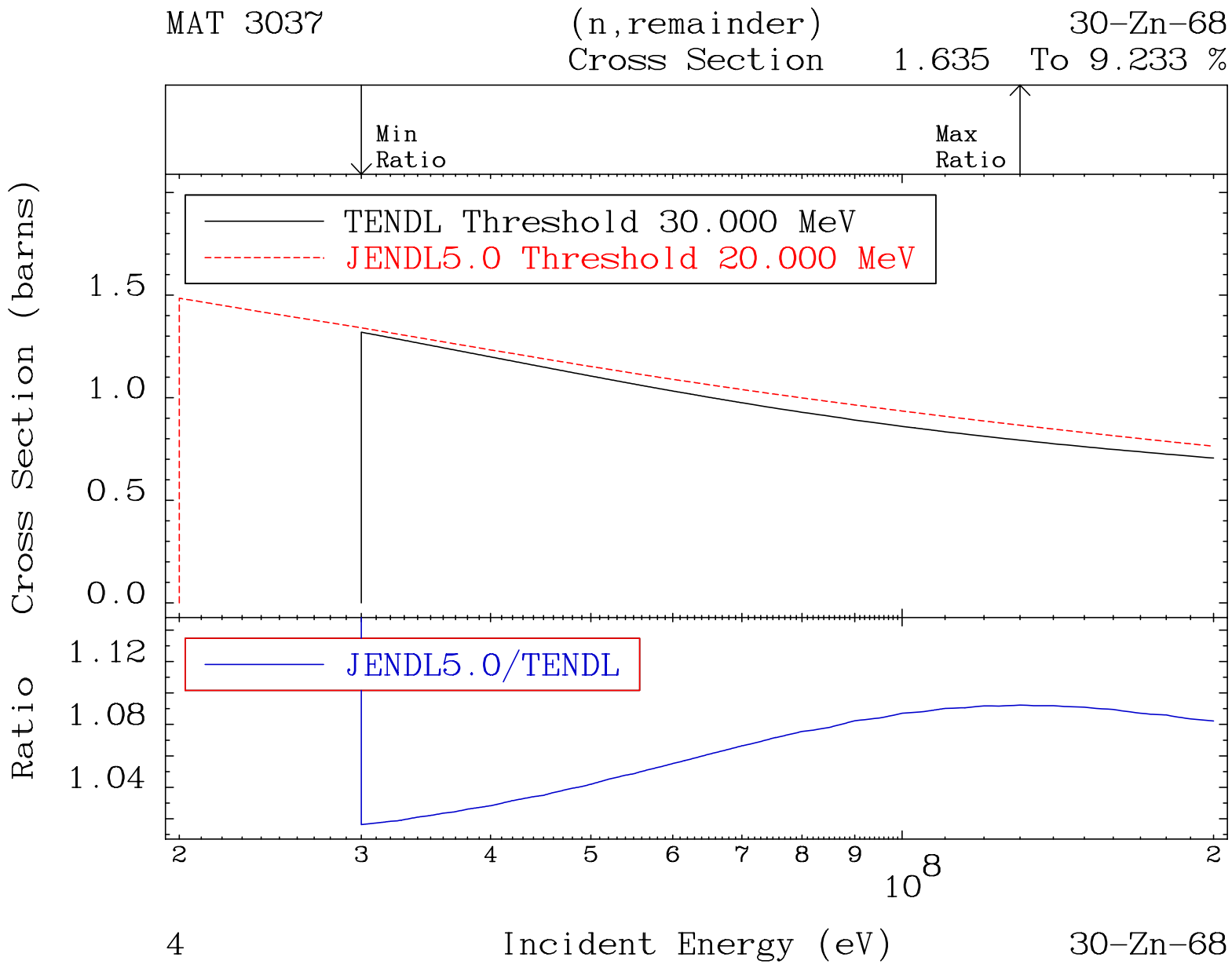
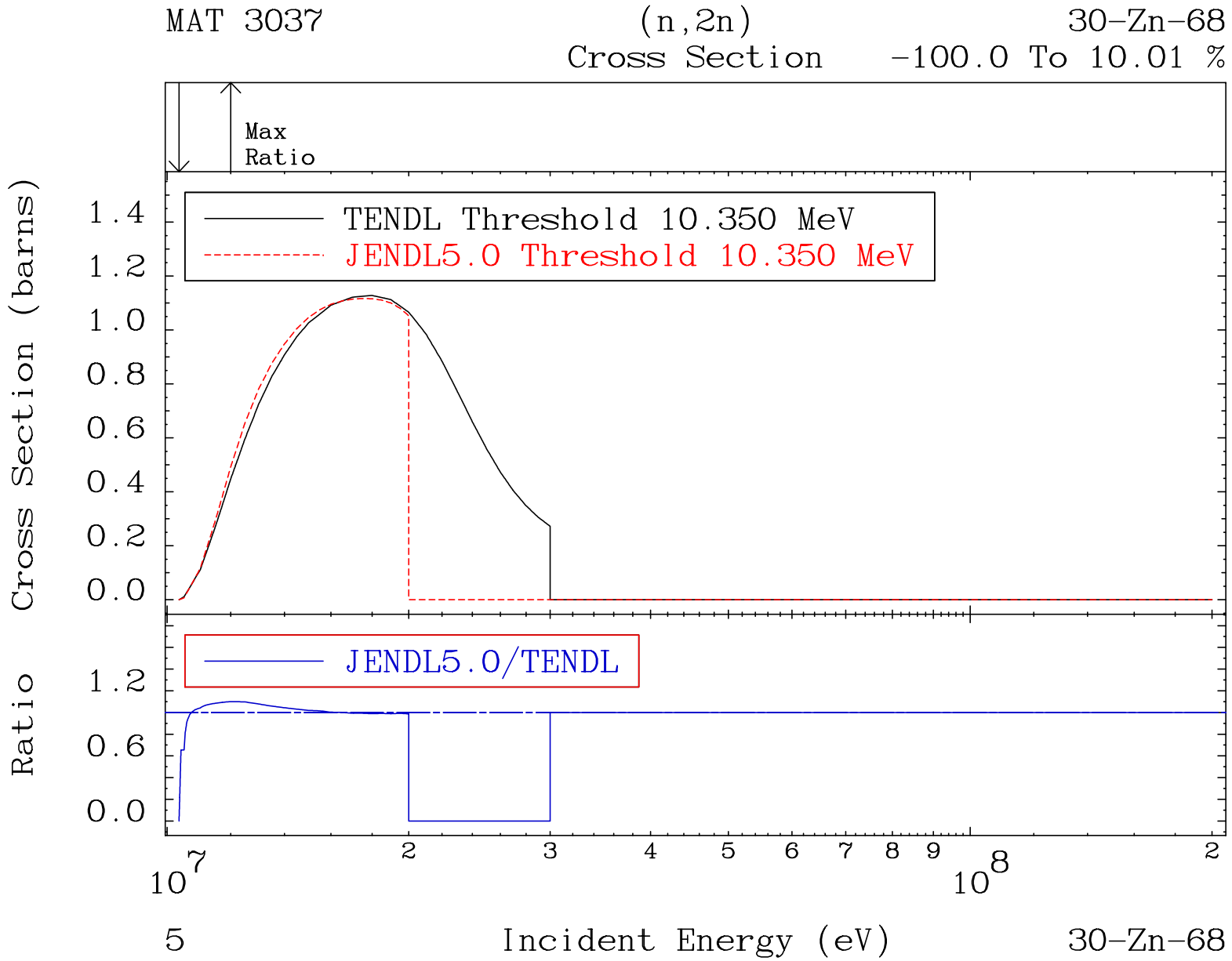
Press Mouse Button to Start

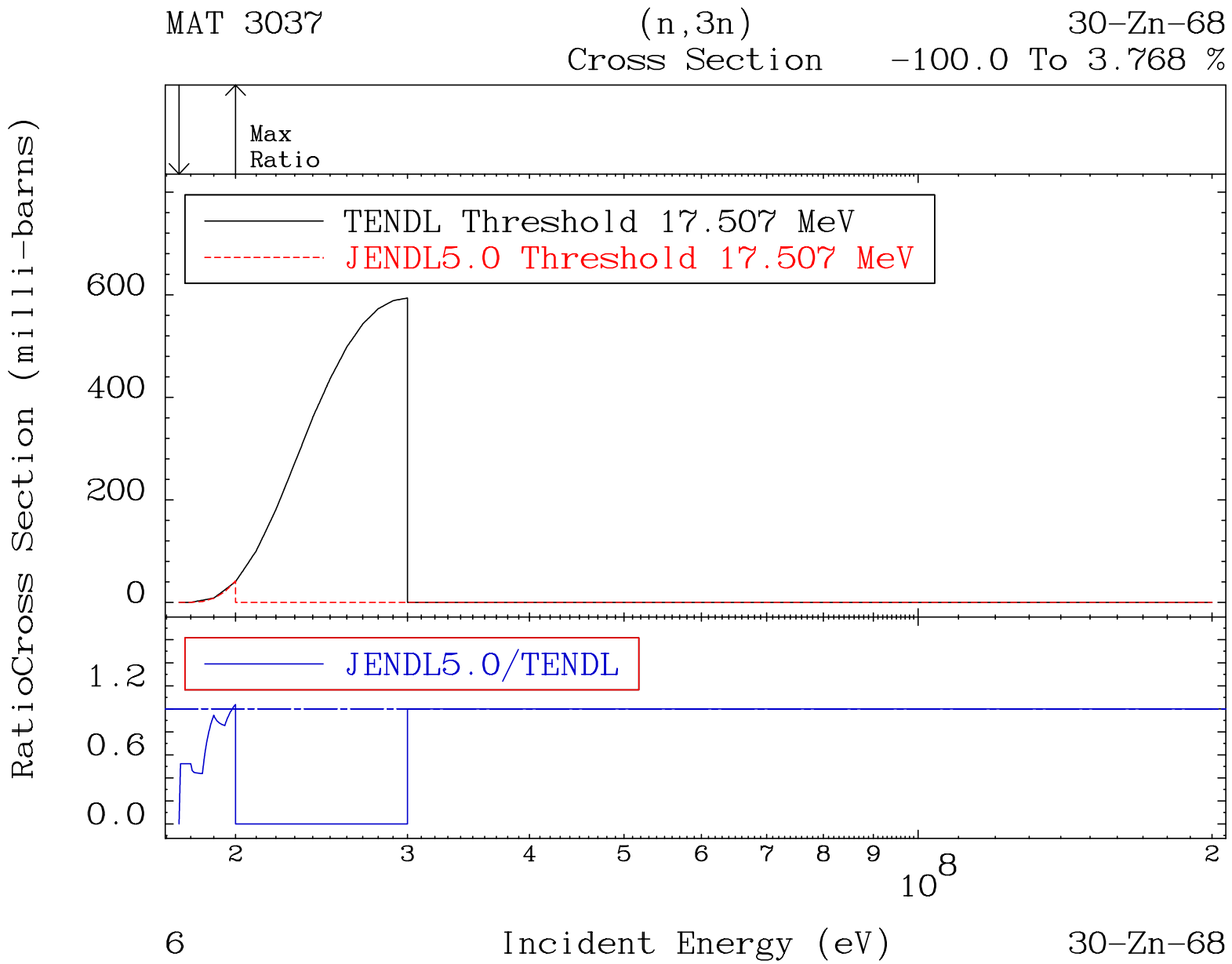

MAT 3037
Total
Cross Section
30-Zn-68
-99.87 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
30-Zn-68

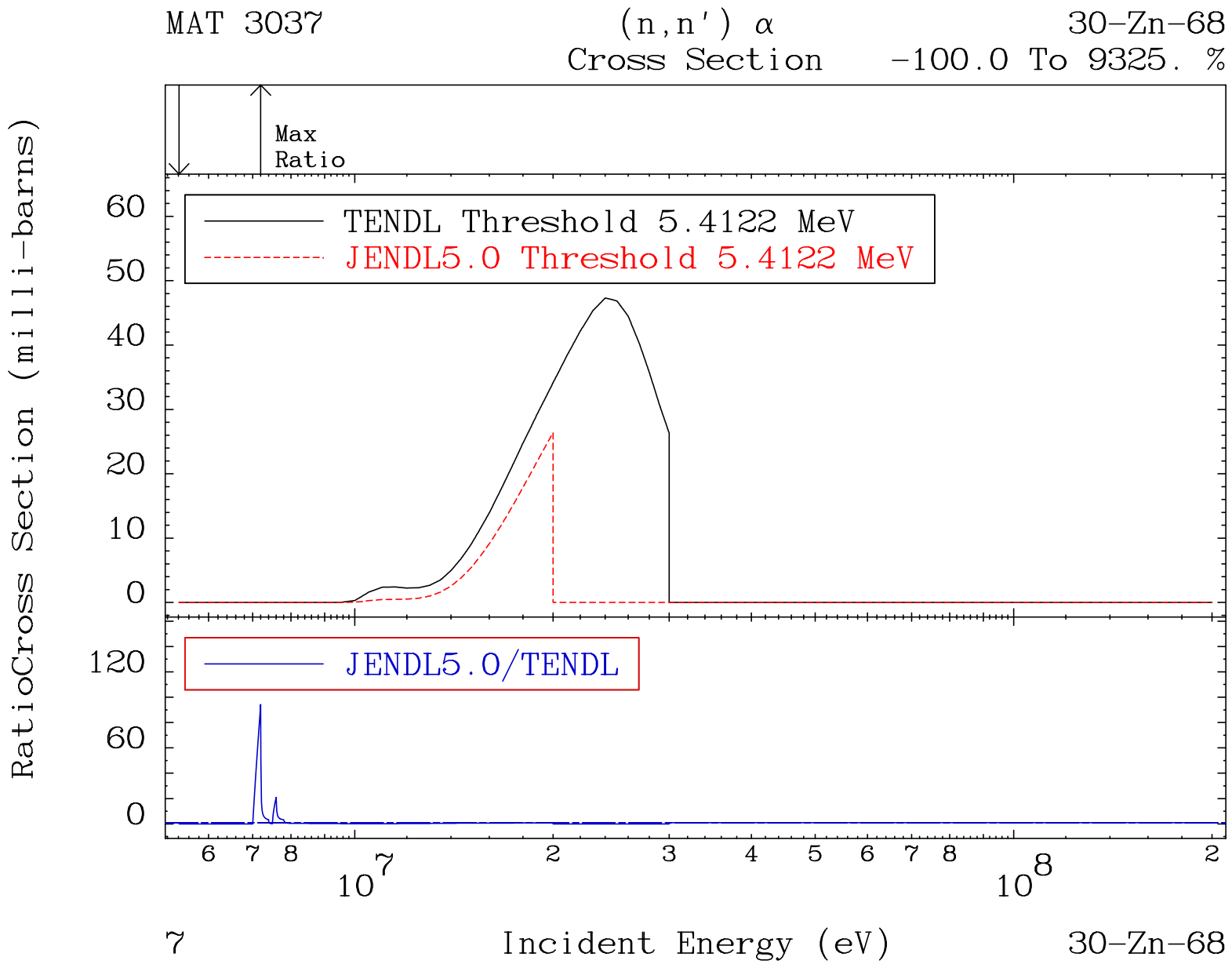

MAT 3037
Elastic
Cross Section
30-Zn-68
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
2
30-Zn-68

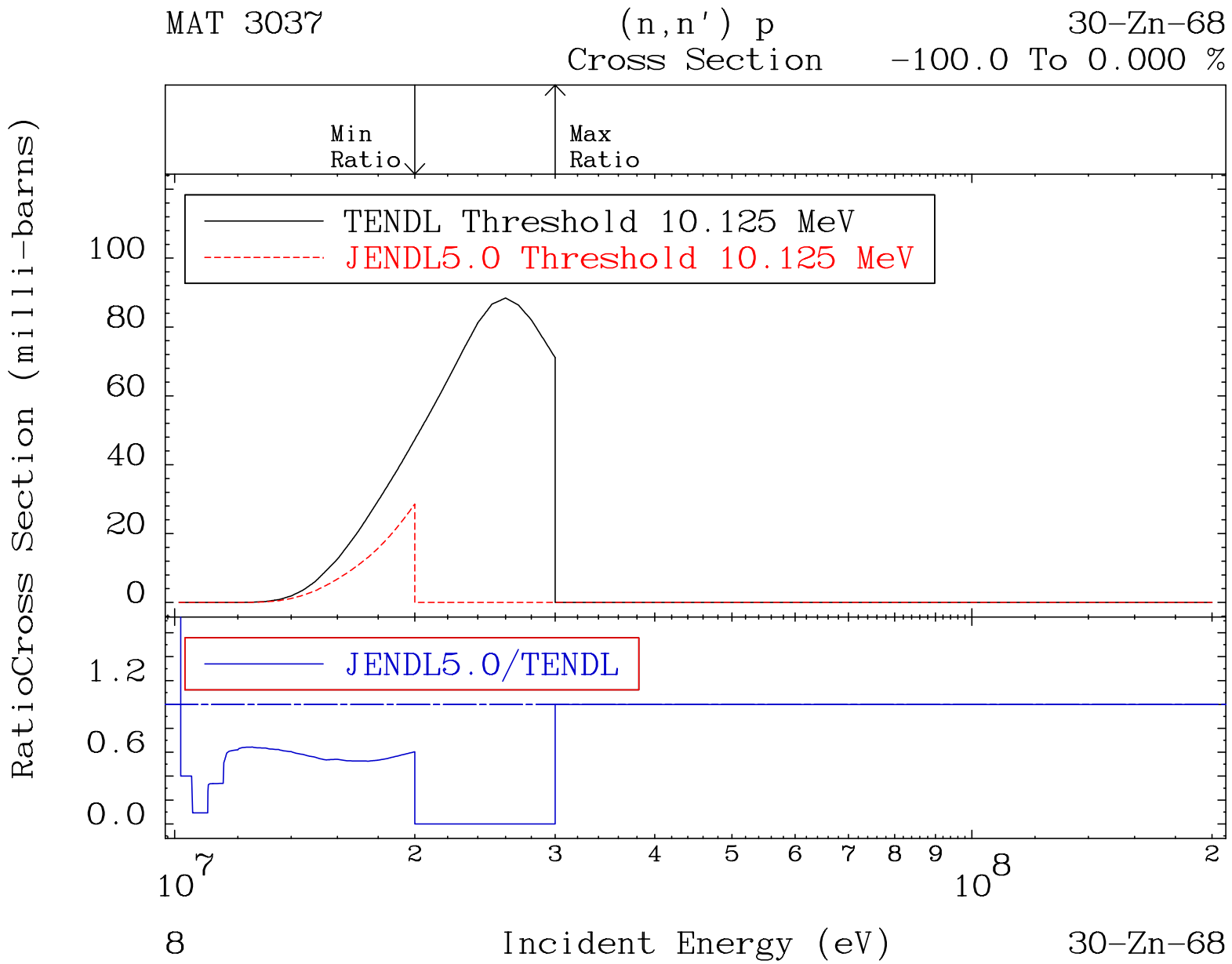

MAT 3037
Inelastic
Cross Section
30-Zn-68
-100.0 To 12.44 %
Max Ratio
Min Ratio
TENDL Threshold 1.0934 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
3
30-Zn-68

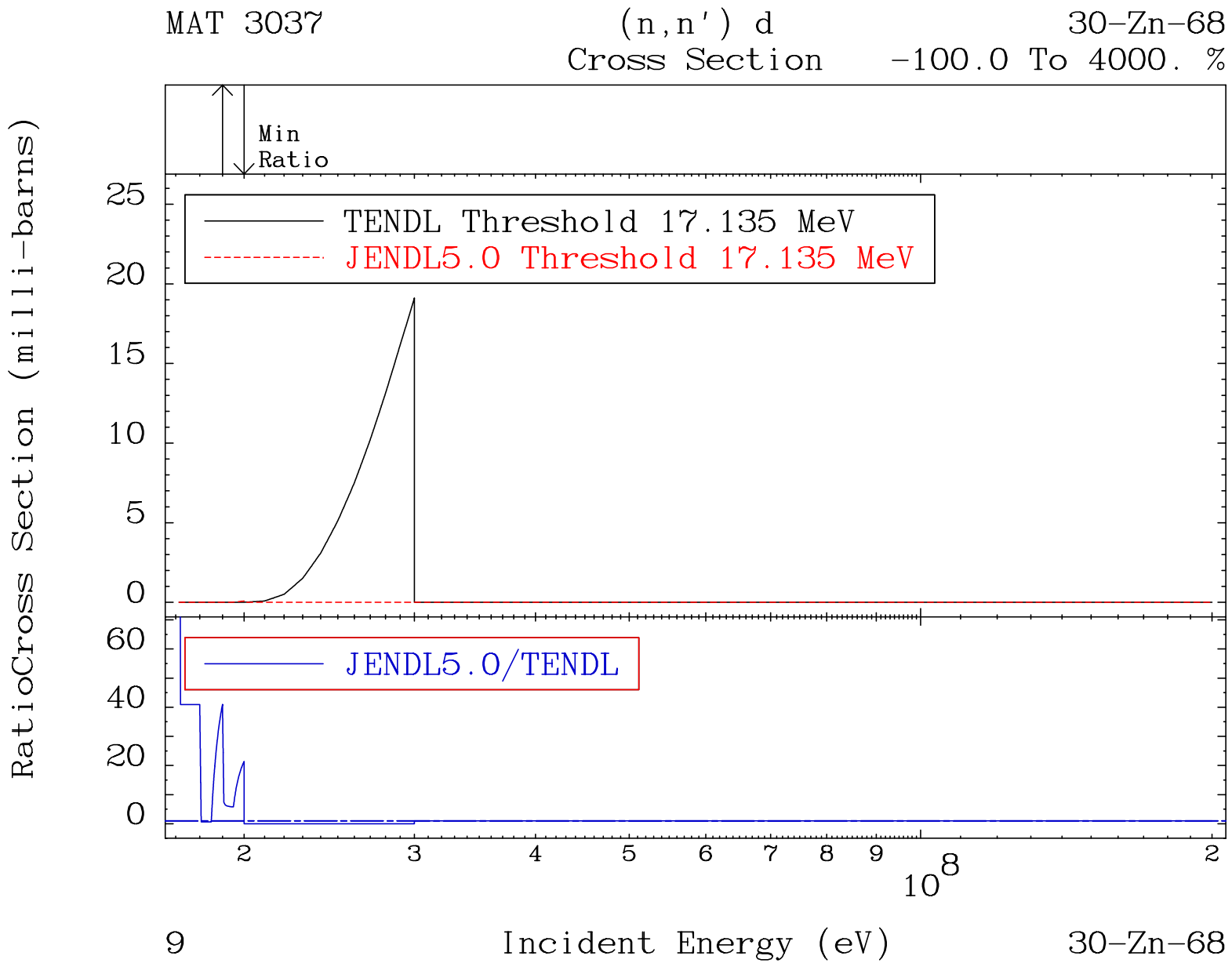

MAT 3037
(n,remainder)
Cross Section
30-Zn-68
1.635 To 9.233 %
Min Ratio
Max Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.12
1.08
1.04
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
30-Zn-68

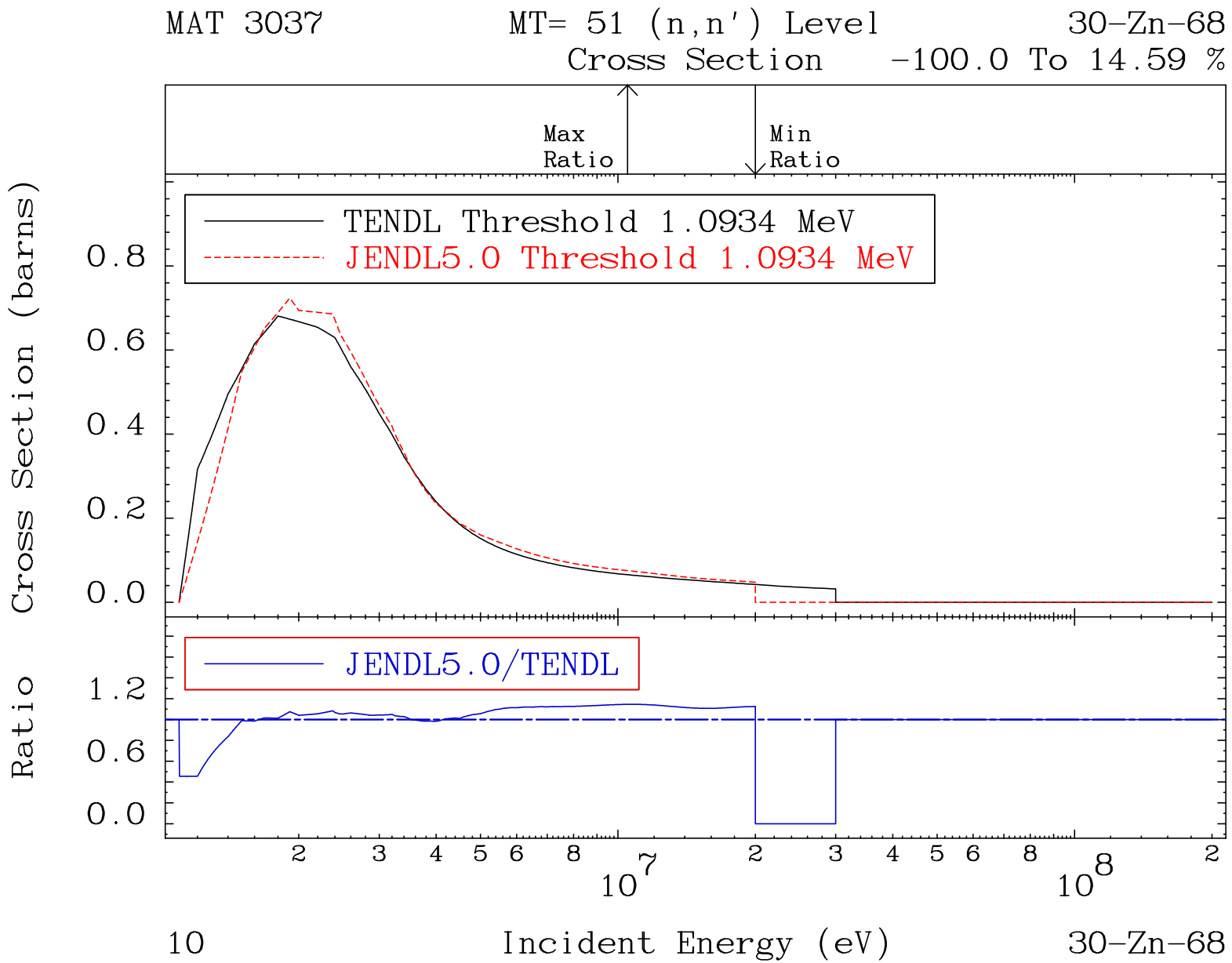

MAT 3037
(n,2n)
Cross Section
30-Zn-68
-100.0 To 10.01 %
Max
Ratio
TENDL Threshold 10.350 MeV
JENDL5.0 Threshold 10.350 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
30-Zn-68

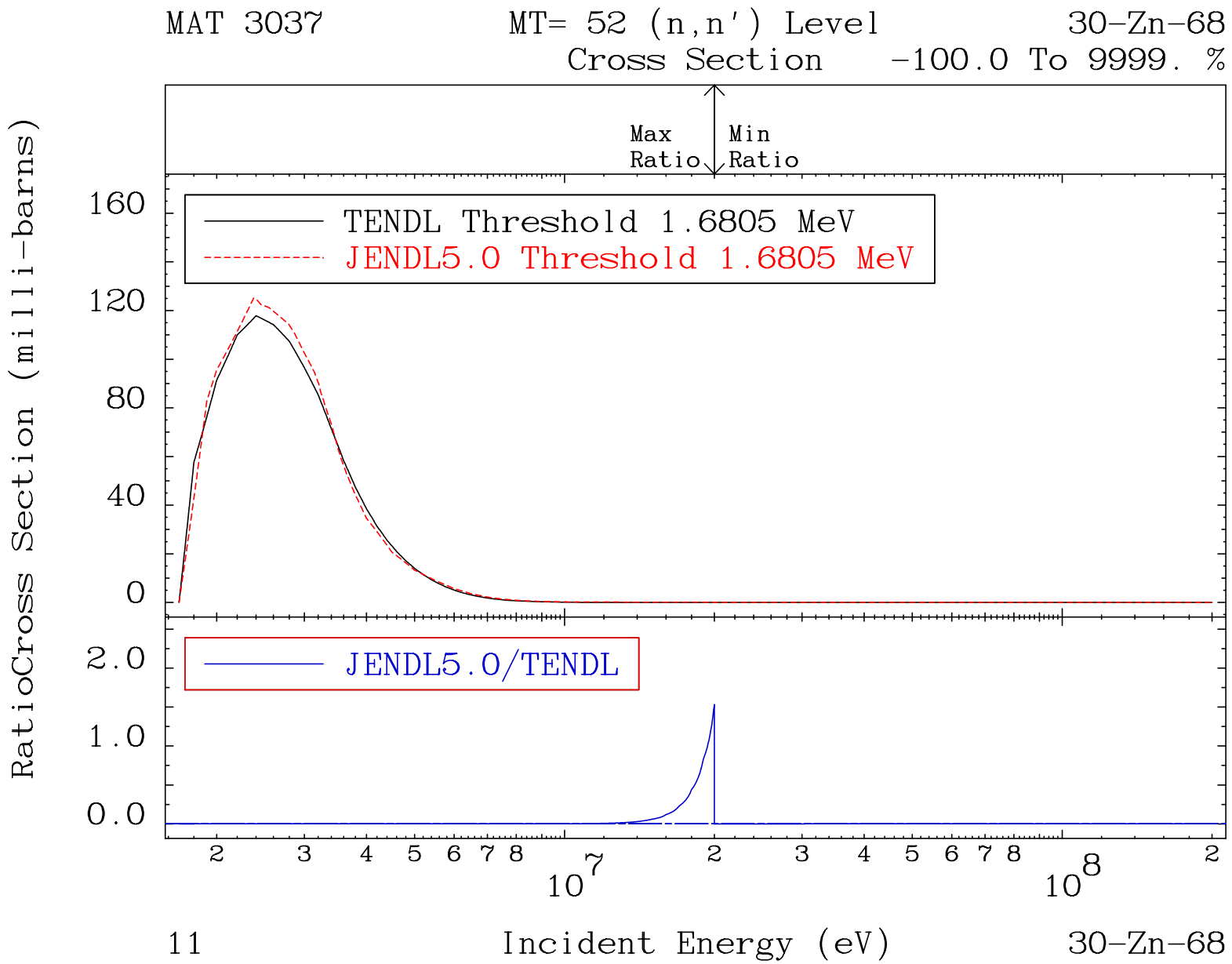

MAT 3037
(n,3n)
Cross Section
30-Zn-68
-100.0 To 3.768 %
Max
Ratio
TENDL Threshold 17.507 MeV
JENDL5.0 Threshold 17.507 MeV
600
400
200
0
JENDL5.0/TENDL
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
6
Incident Energy (eV)
30-Zn-68

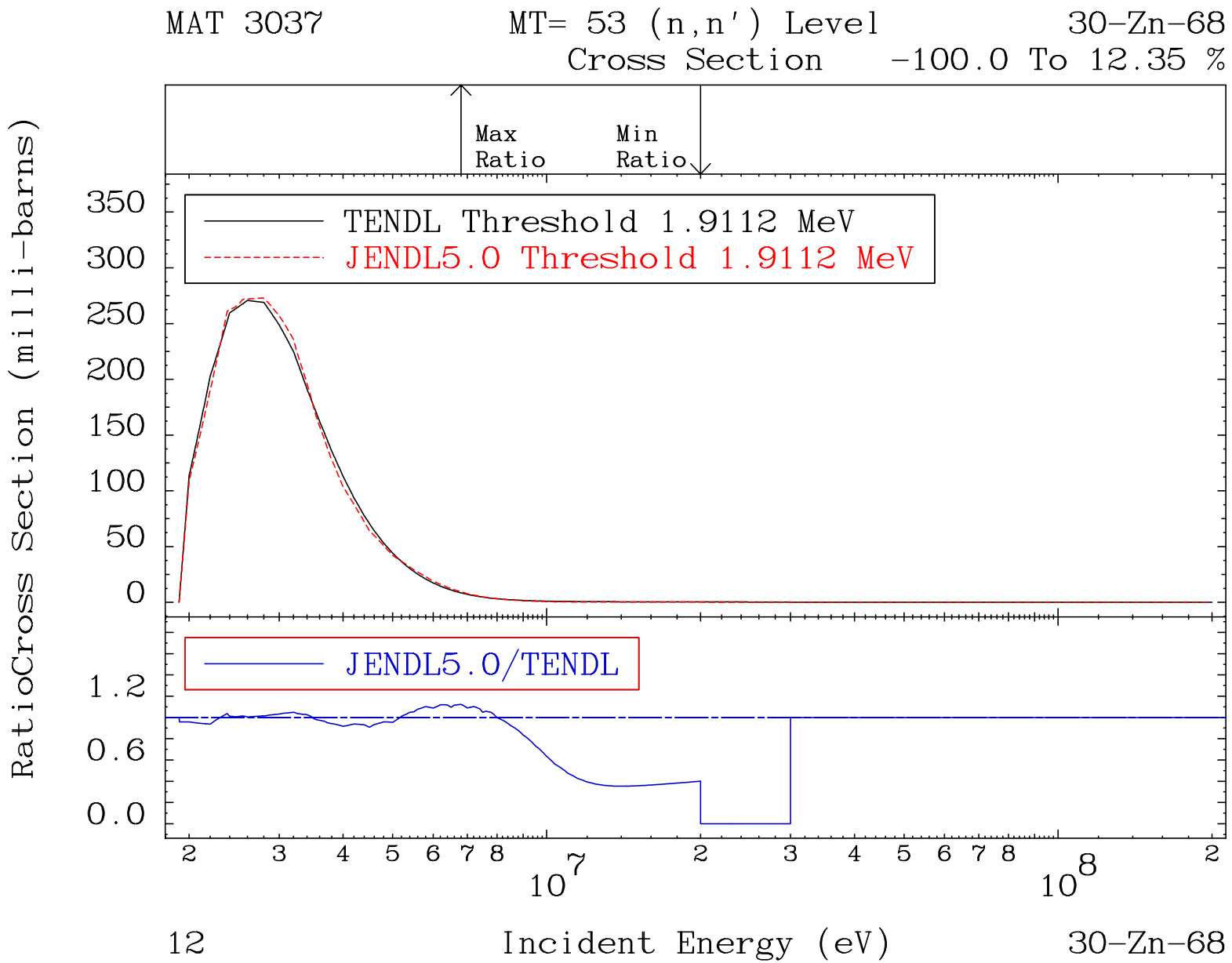

MAT 3037
(n,n') α
Cross Section
30-Zn-68
-100.0 To 9325. %
Max
Ratio
TENDL Threshold 5.4122 MeV
JENDL5.0 Threshold 5.4122 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
120
60
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
30-Zn-68

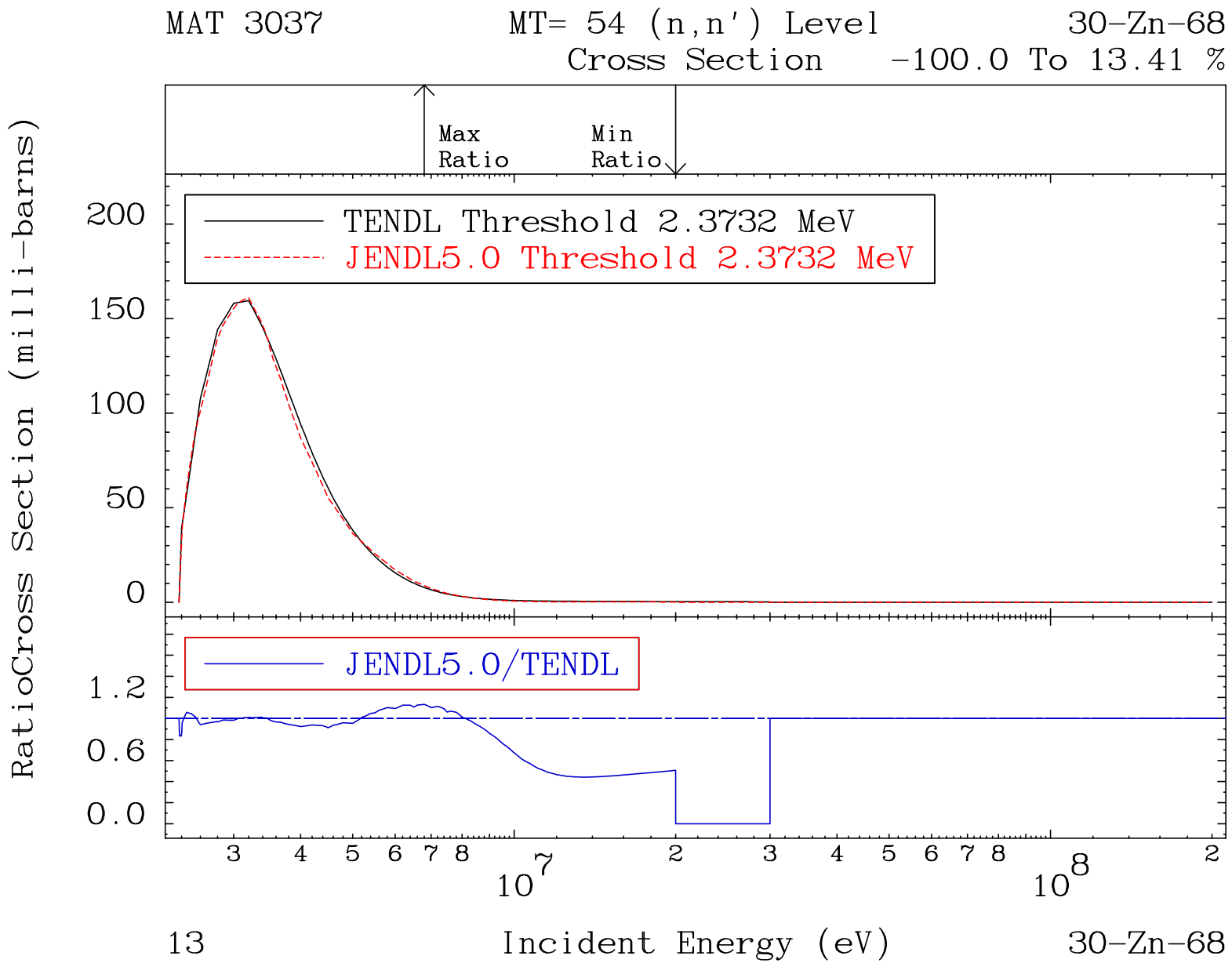

MAT 3037
(n,n') p
Cross Section
30-Zn-68
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 10.125 MeV
JENDL5.0 Threshold 10.125 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
30-Zn-68

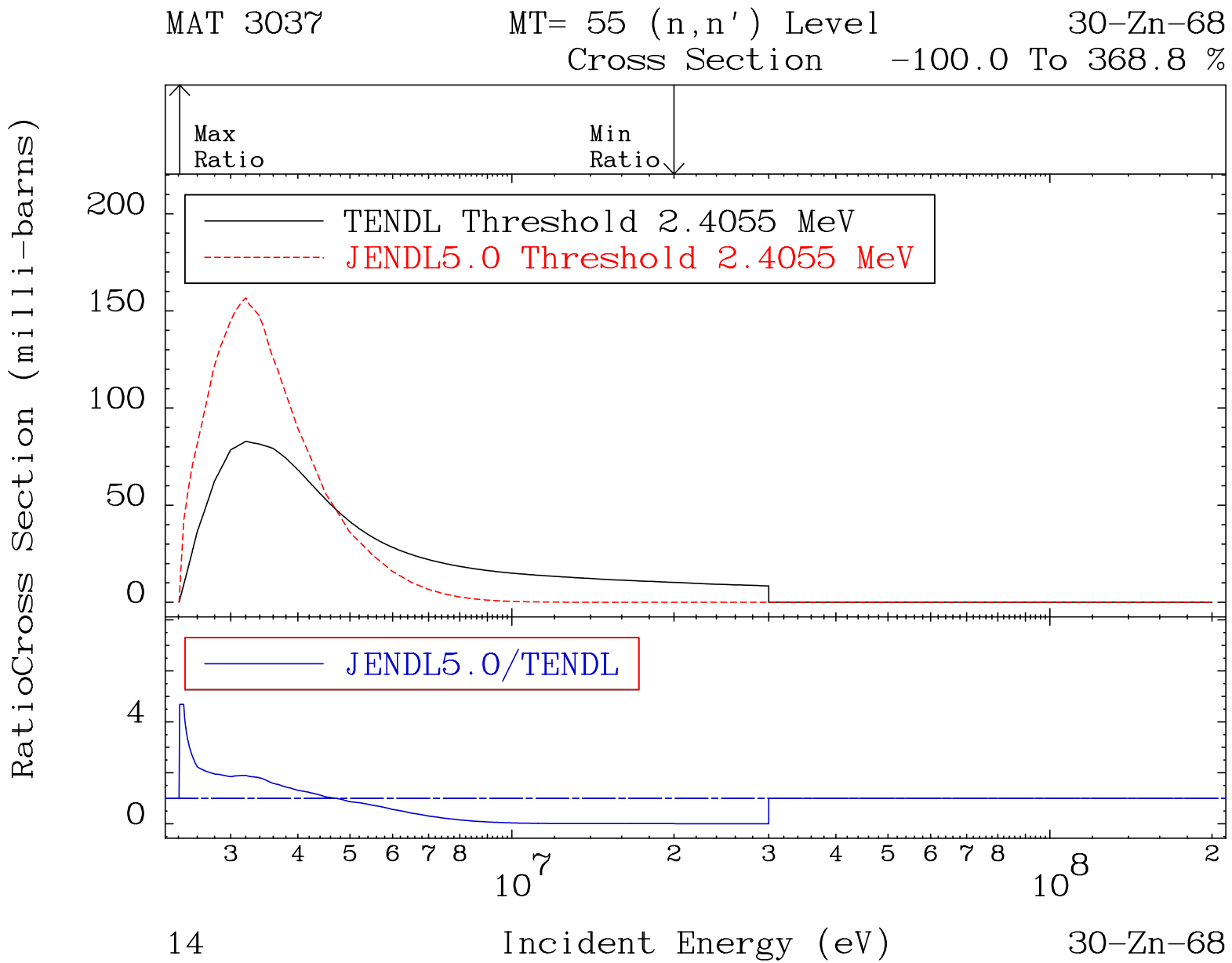

MAT 3037
(n,n') d
Cross Section
30-Zn-68
-100.0 To 4000. %
Min
Ratio
TENDL Threshold 17.135 MeV
JENDL5.0 Threshold 17.135 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
60
40
20
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
30-Zn-68

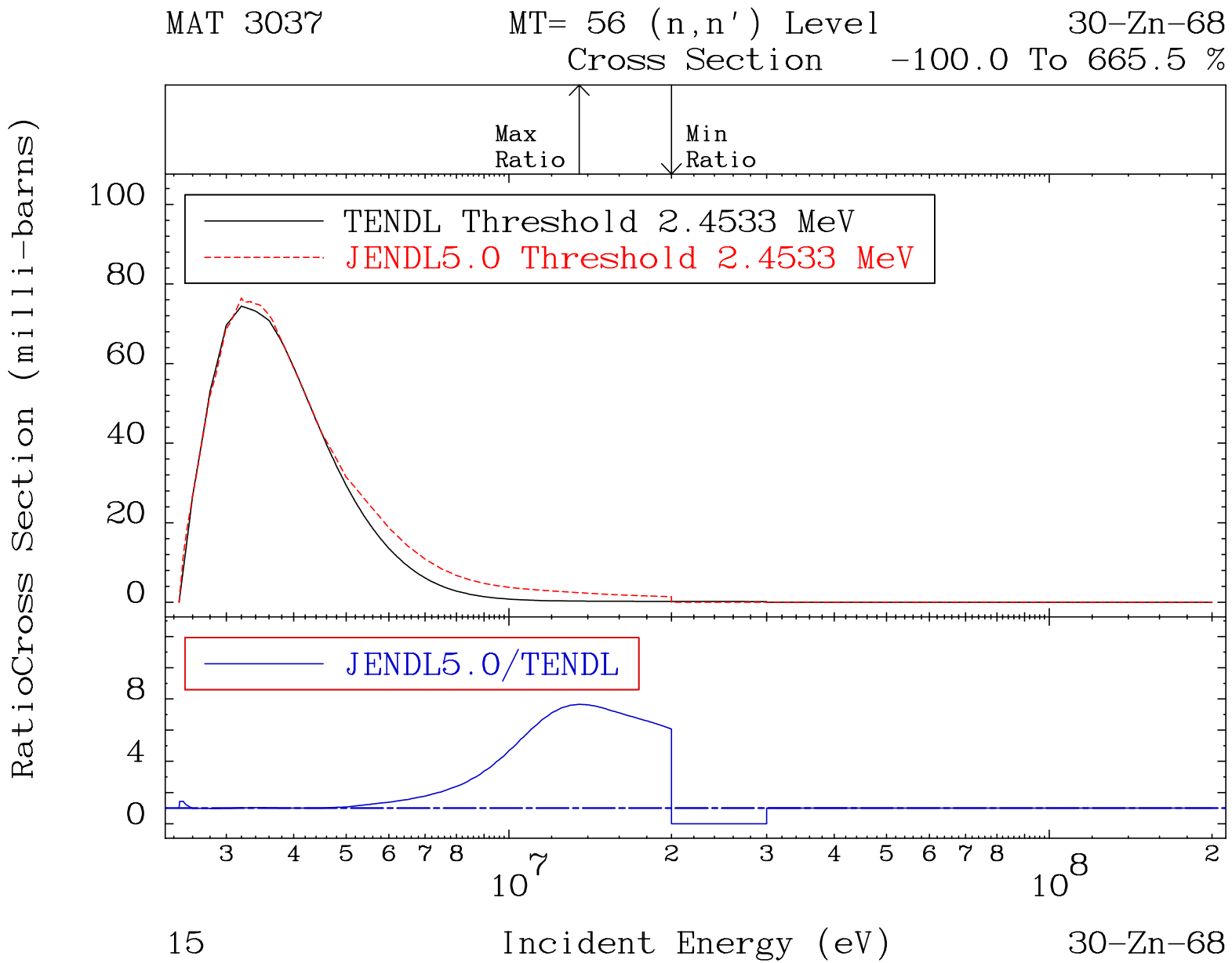

MAT 3037
MT= 51 (n,n') Level
30-Zn-68
Cross Section -100.0 To 14.59 %
Max Ratio
Min Ratio
TENDL Threshold 1.0934 MeV
JENDL5.0 Threshold 1.0934 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
30-Zn-68

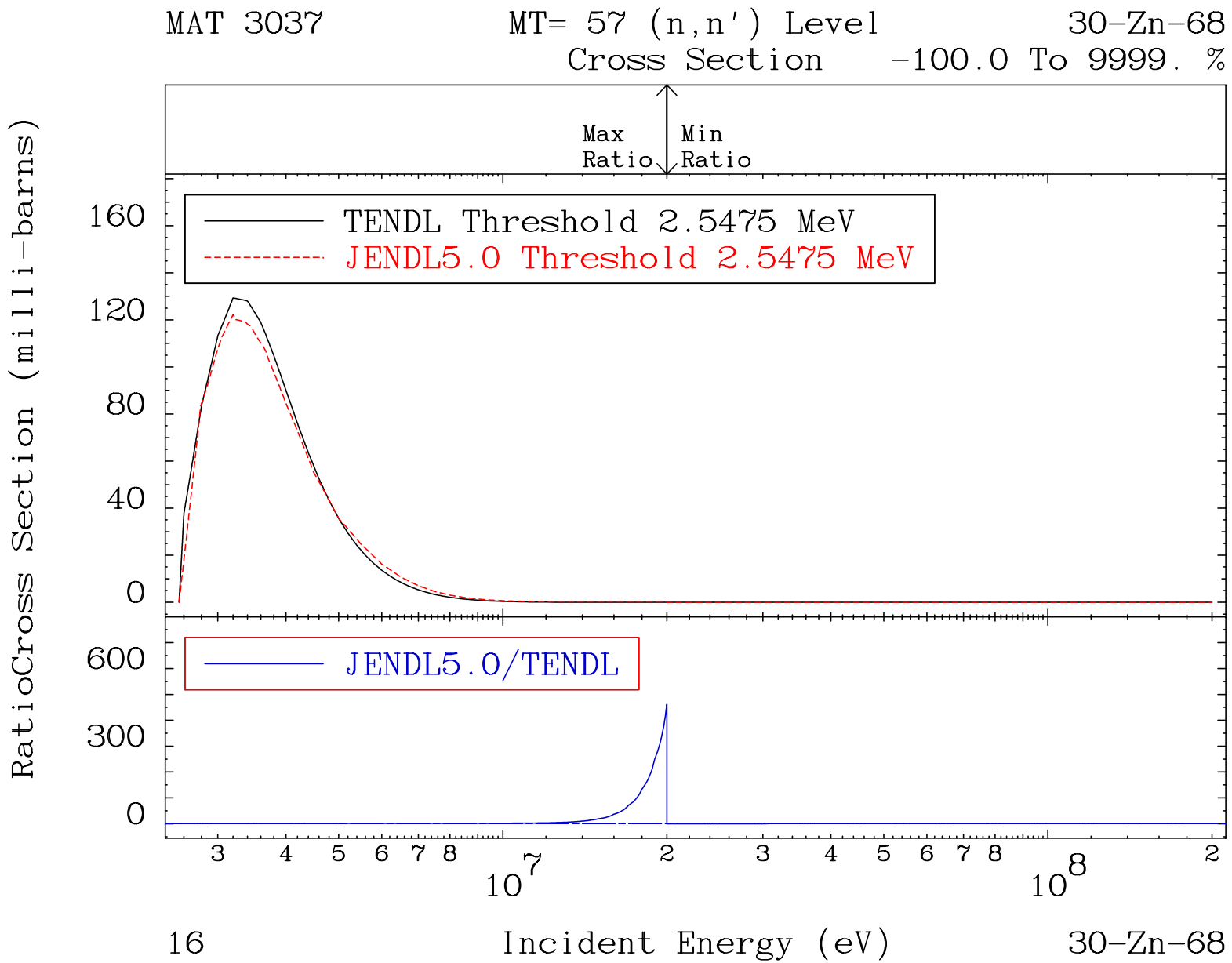

MAT 3037
MT= 52 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6805 MeV
JENDL5.0 Threshold 1.6805 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
30-Zn-68

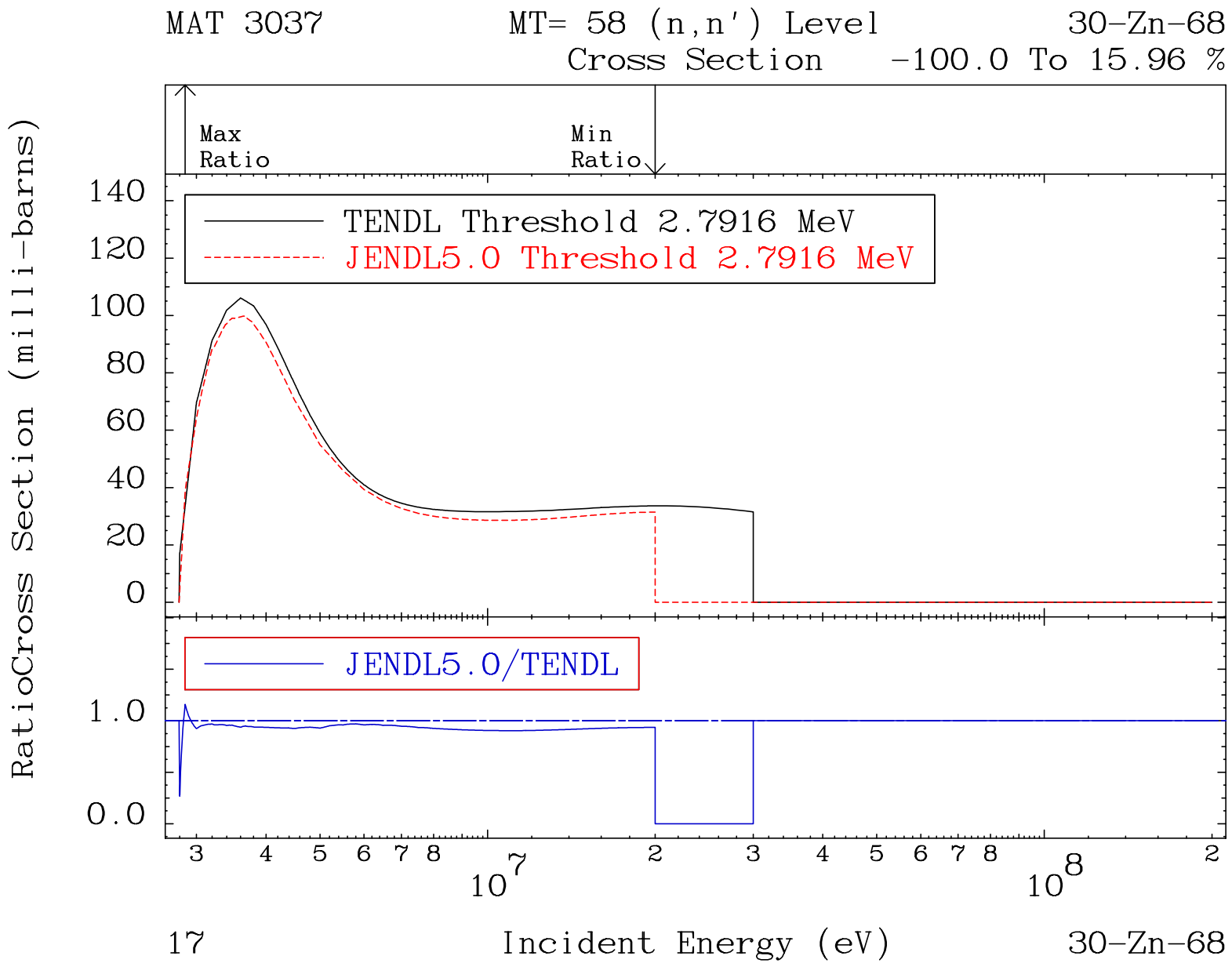

MAT 3037
MT= 53 (n,n') Level
30-Zn-68
Cross Section -100.0 To 12.35 %
Max Ratio
Min Ratio
TENDL Threshold 1.9112 MeV
JENDL5.0 Threshold 1.9112 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
30-Zn-68

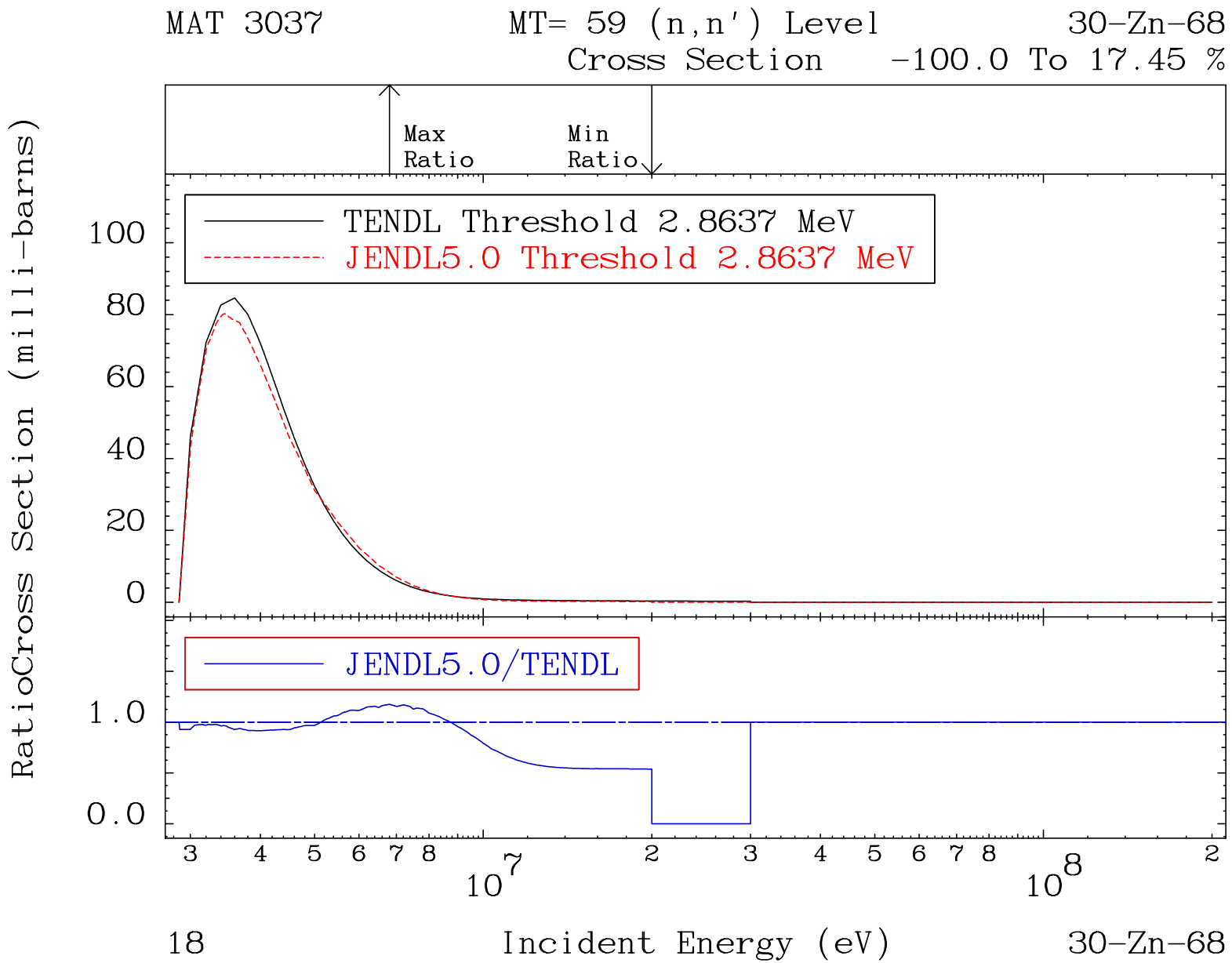

MAT 3037
MT= 54 (n,n') Level
30-Zn-68
Cross Section -100.0 To 13.41 %
Max Ratio
Min Ratio
TENDL Threshold 2.3732 MeV
JENDL5.0 Threshold 2.3732 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
30-Zn-68

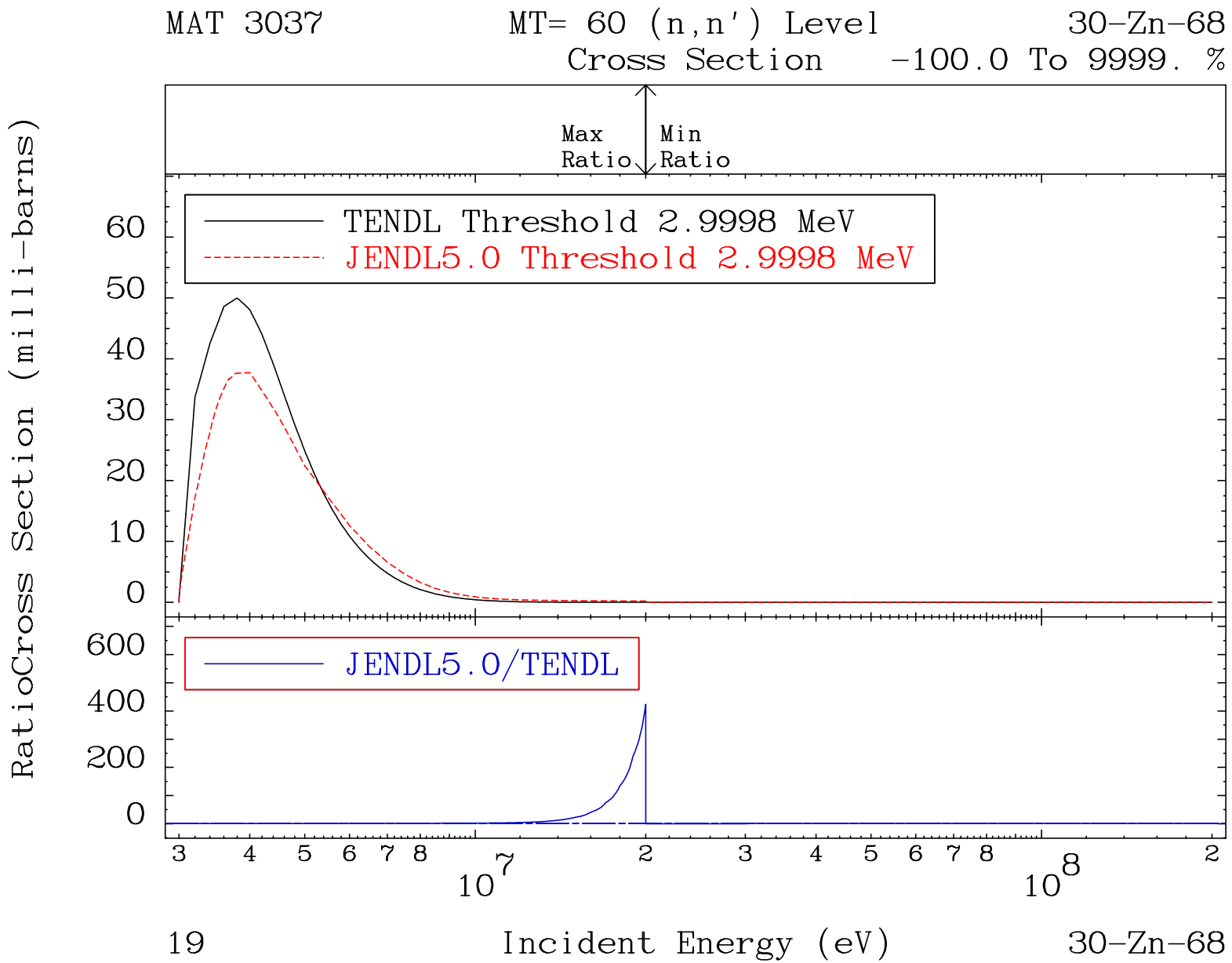

MAT 3037
MT= 55 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 368.8 %
Max Ratio
Min Ratio
TENDL Threshold 2.4055 MeV
JENDL5.0 Threshold 2.4055 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
30-Zn-68

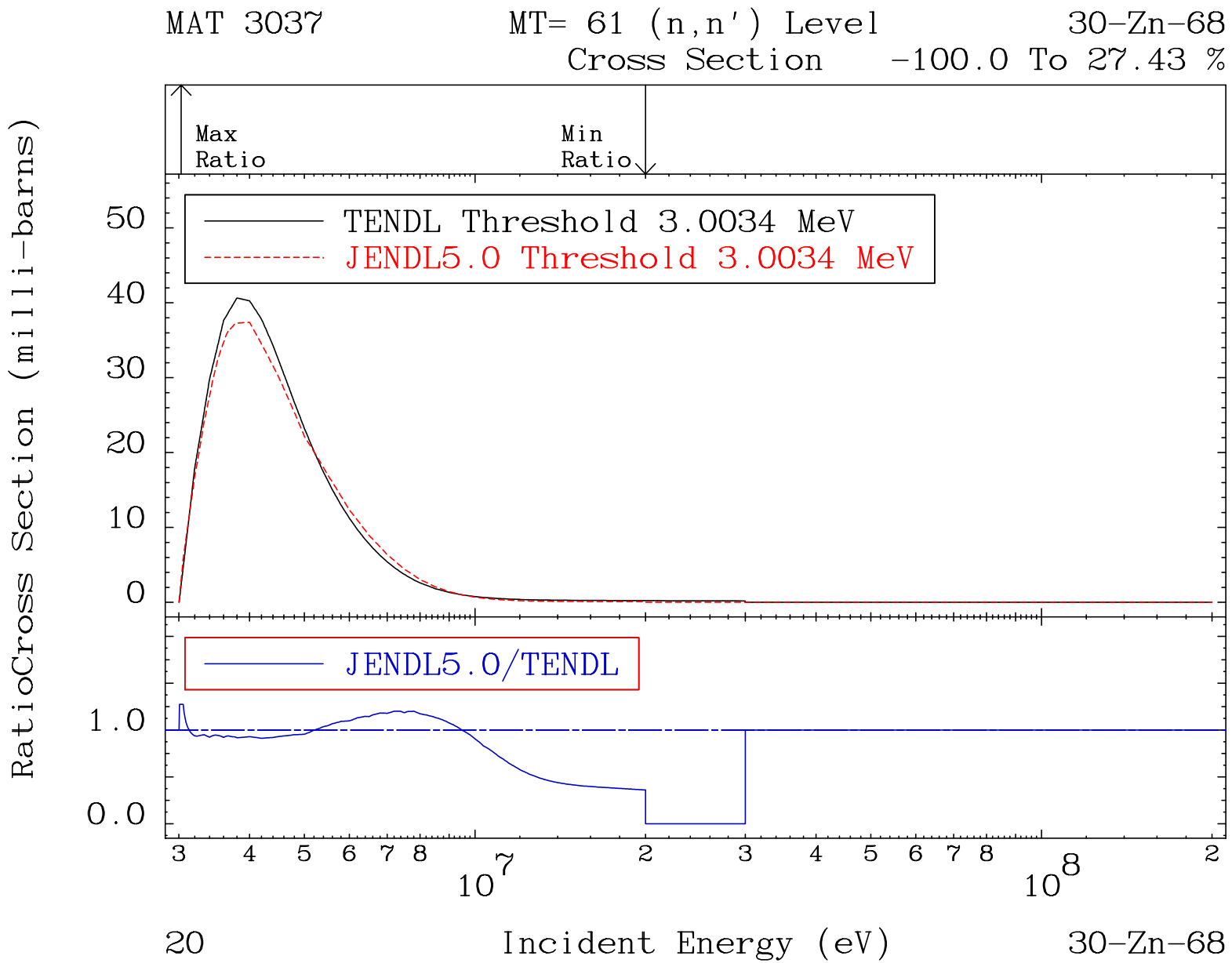

MAT 3037
MT= 56 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 665.5 %
Max Ratio
Min Ratio
TENDL Threshold 2.4533 MeV
JENDL5.0 Threshold 2.4533 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
30-Zn-68

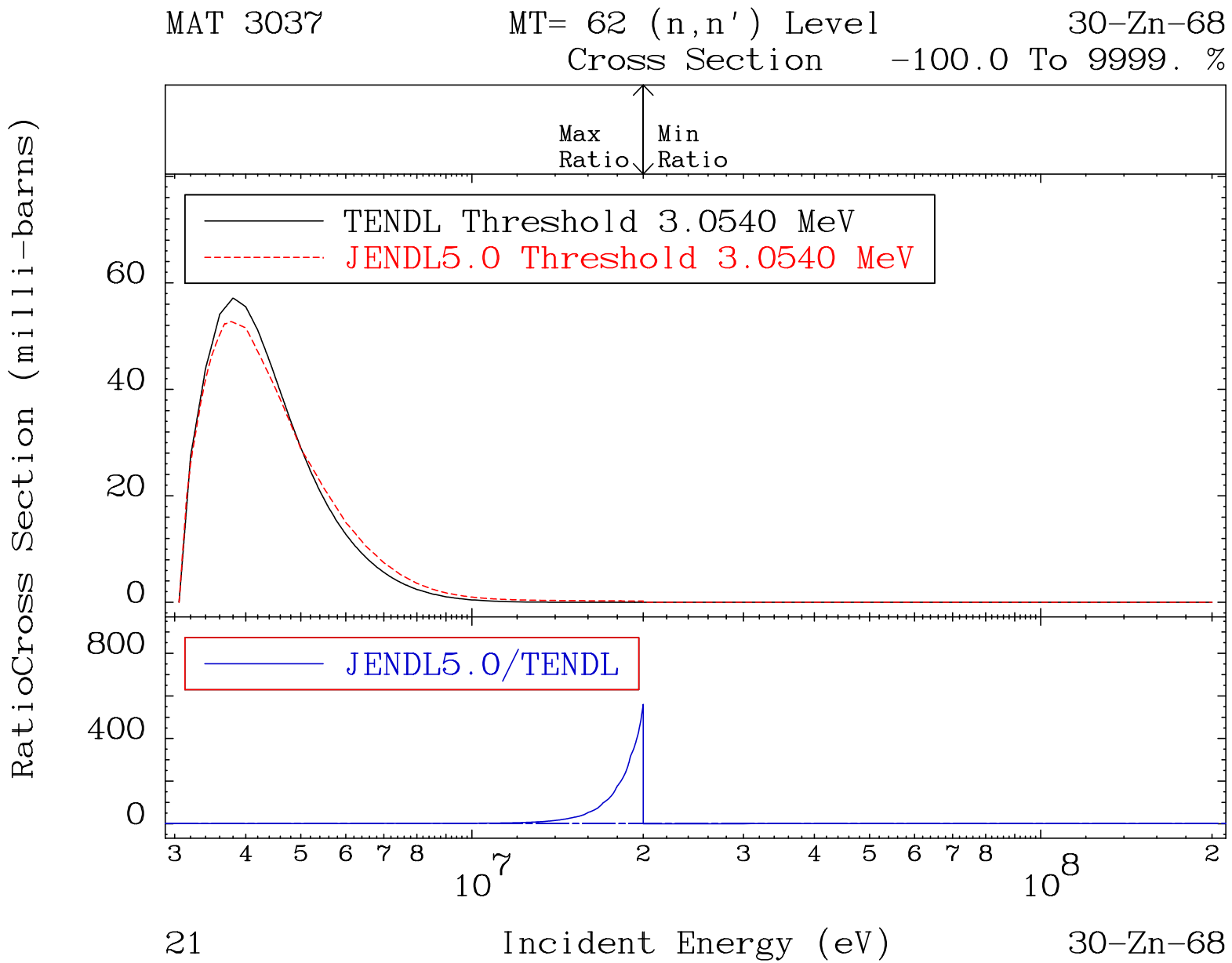

MAT 3037
MT= 57 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5475 MeV
JENDL5.0 Threshold 2.5475 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
600
300
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
30-Zn-68

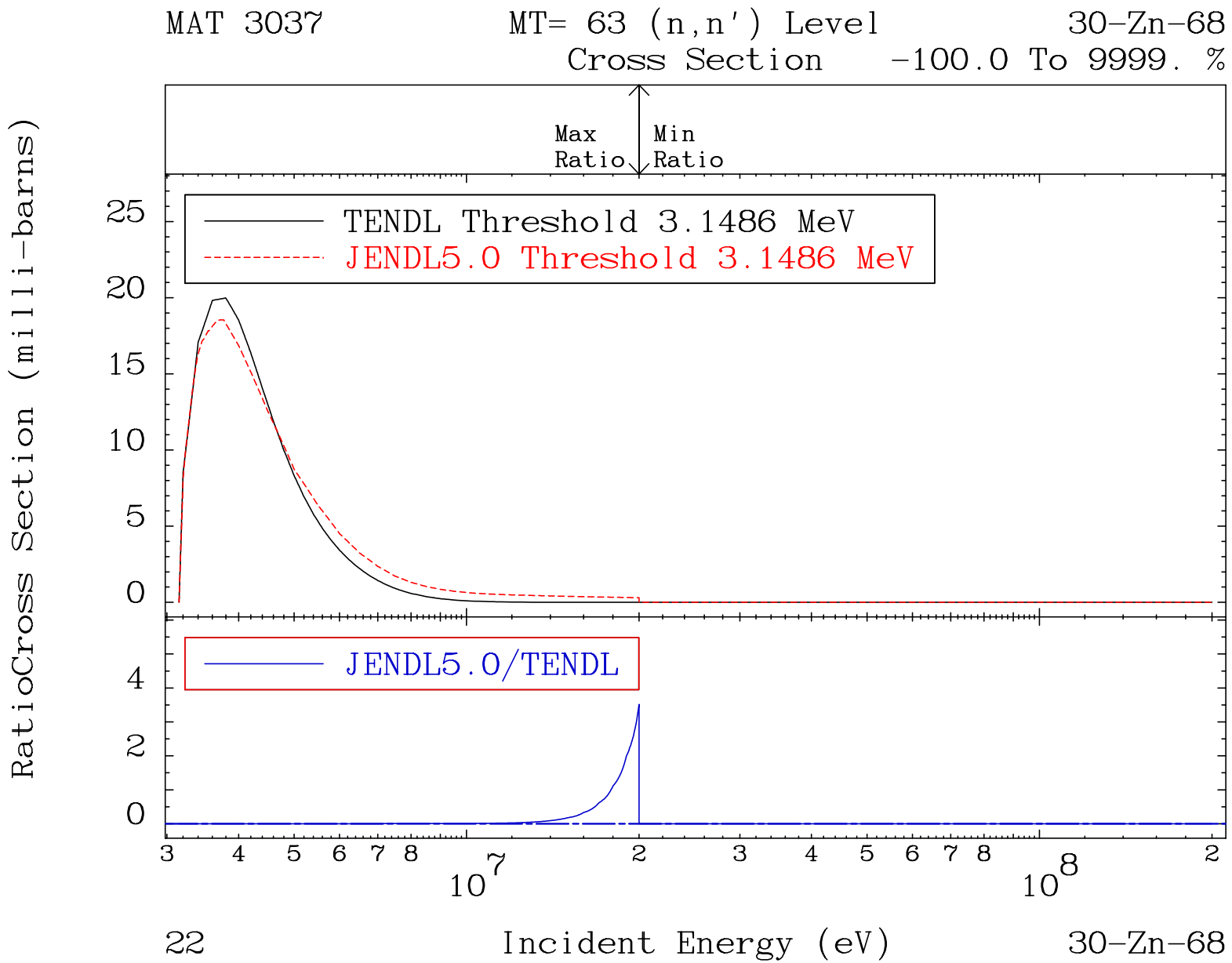

MAT 3037
MT= 58 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 15.96 %
Max Ratio
Min Ratio
TENDL Threshold 2.7916 MeV
JENDL5.0 Threshold 2.7916 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
30-Zn-68

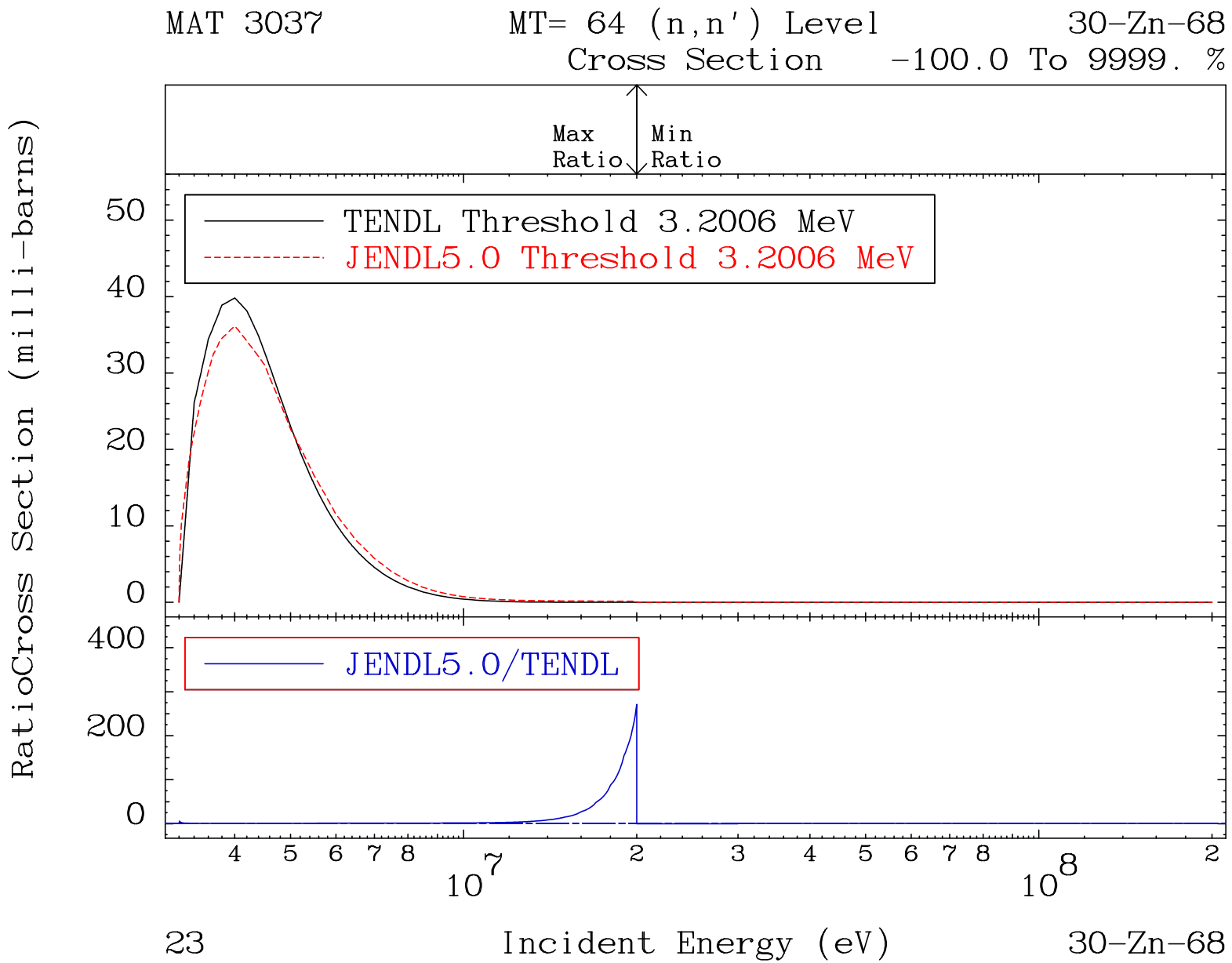

MAT 3037
MT= 59 (n,n') Level
30-Zn-68
Cross Section -100.0 To 17.45 %
Max Ratio
Min Ratio
TENDL Threshold 2.8637 MeV
JENDL5.0 Threshold 2.8637 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
30-Zn-68

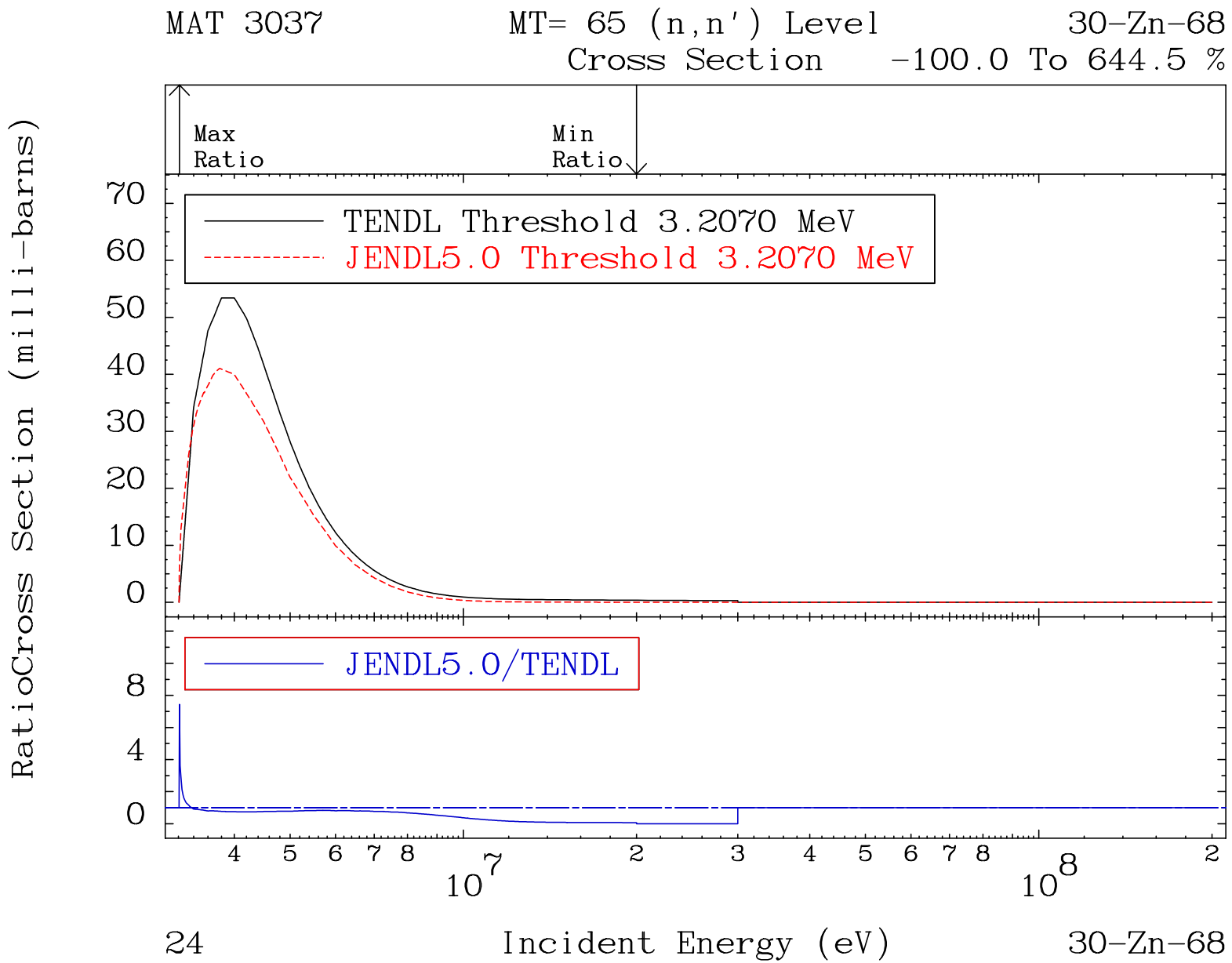

MAT 3037
MT= 60 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.9998 MeV
JENDL5.0 Threshold 2.9998 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
600
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
30-Zn-68

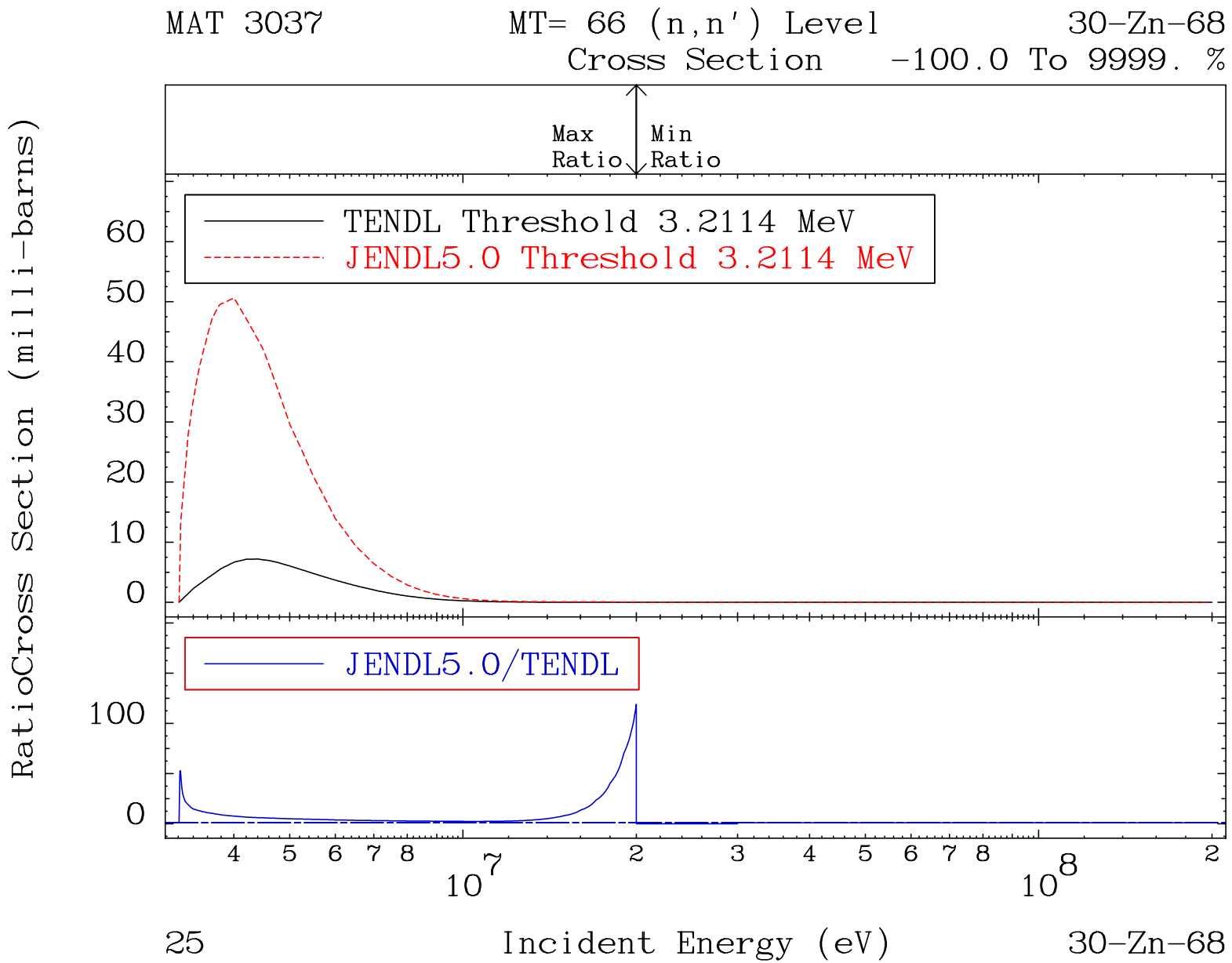

MAT 3037
MT= 61 (n,n') Level
30-Zn-68
Cross Section -100.0 To 27.43 %
Max Ratio
Min Ratio
TENDL Threshold 3.0034 MeV
JENDL5.0 Threshold 3.0034 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
30-Zn-68

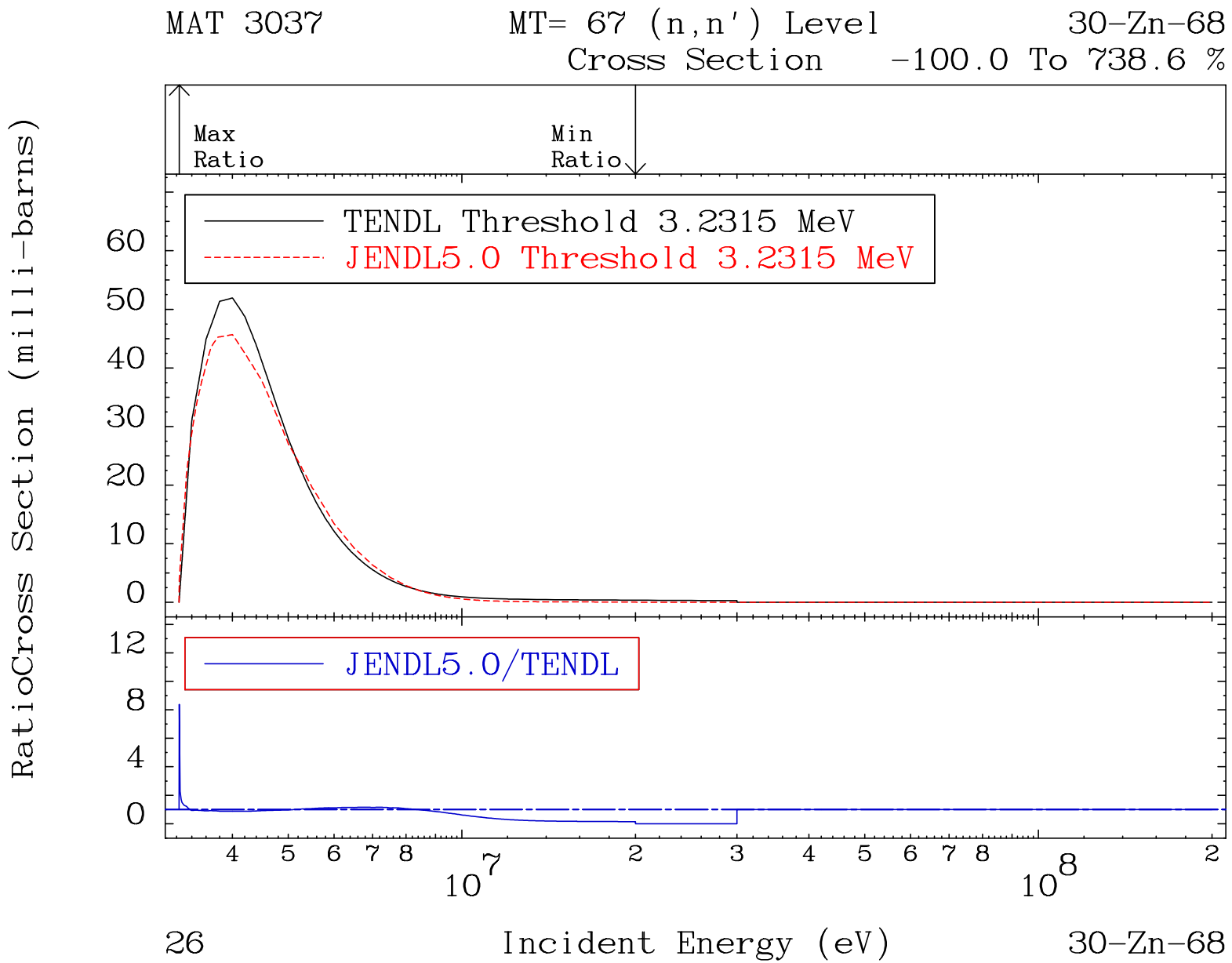

MAT 3037
MT= 62 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.0540 MeV
JENDL5.0 Threshold 3.0540 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
800
400
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
30-Zn-68

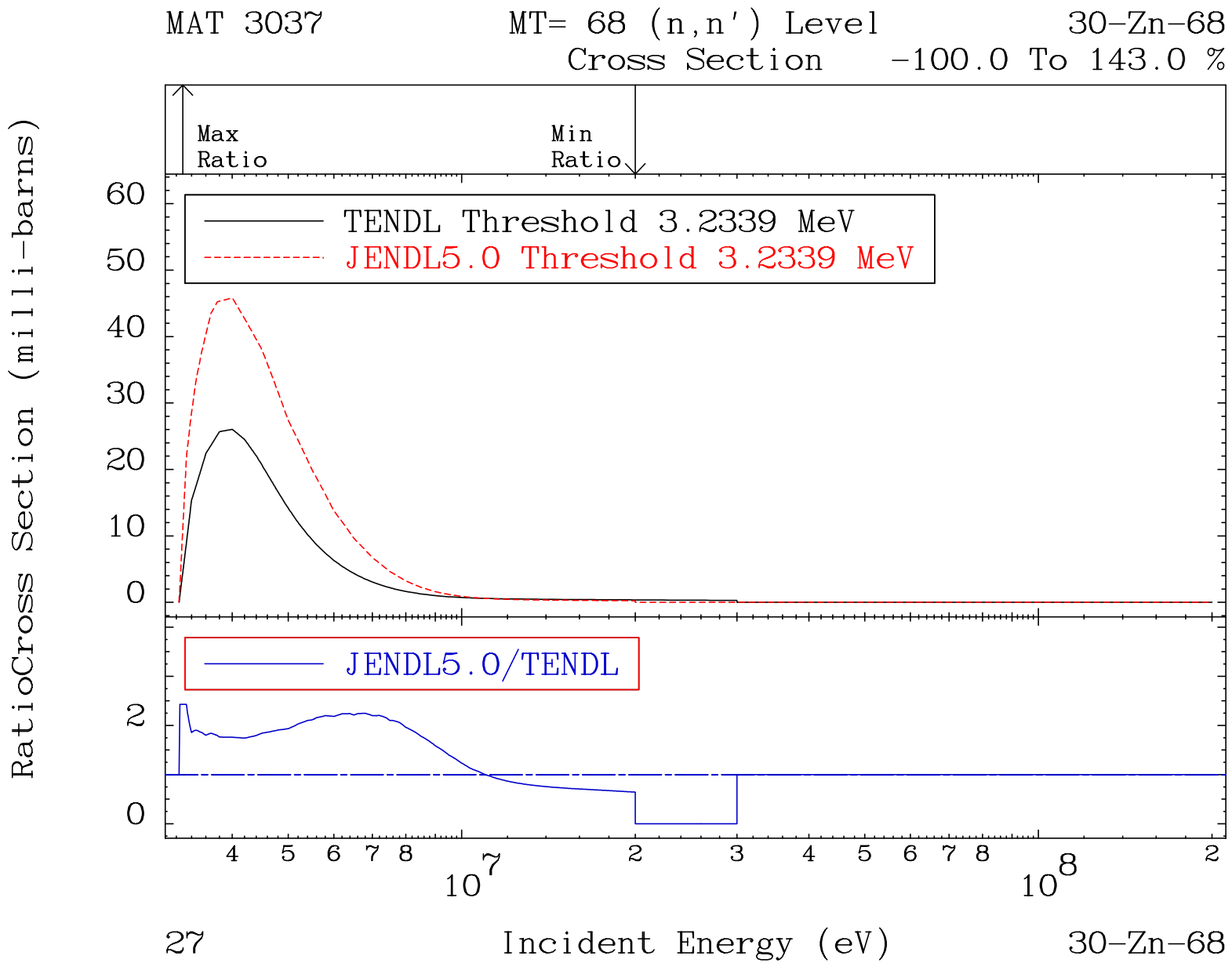

MAT 3037
MT= 63 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1486 MeV
JENDL5.0 Threshold 3.1486 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
30-Zn-68

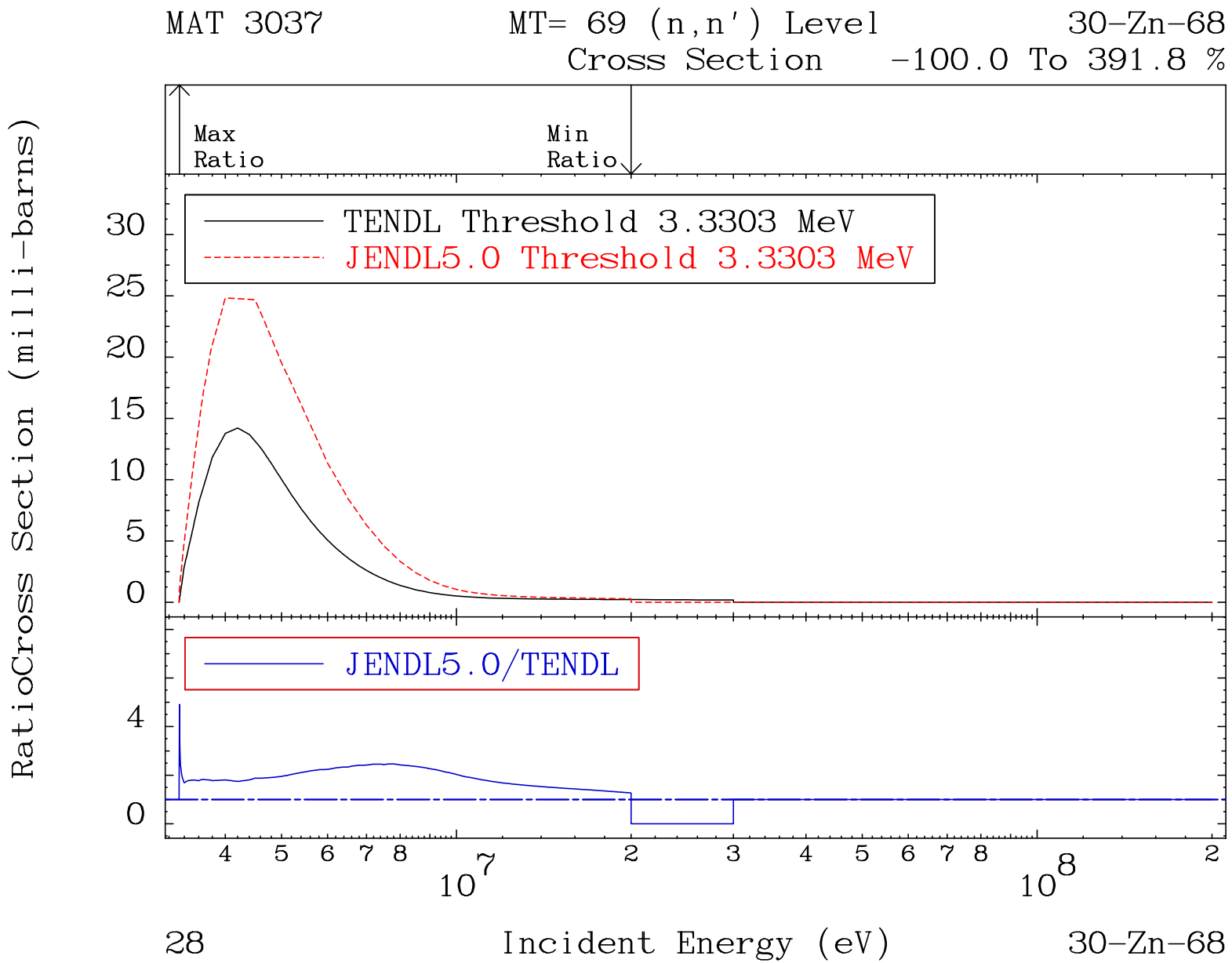

MAT 3037
MT= 64 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.2006 MeV
JENDL5.0 Threshold 3.2006 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
400
200
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
30-Zn-68

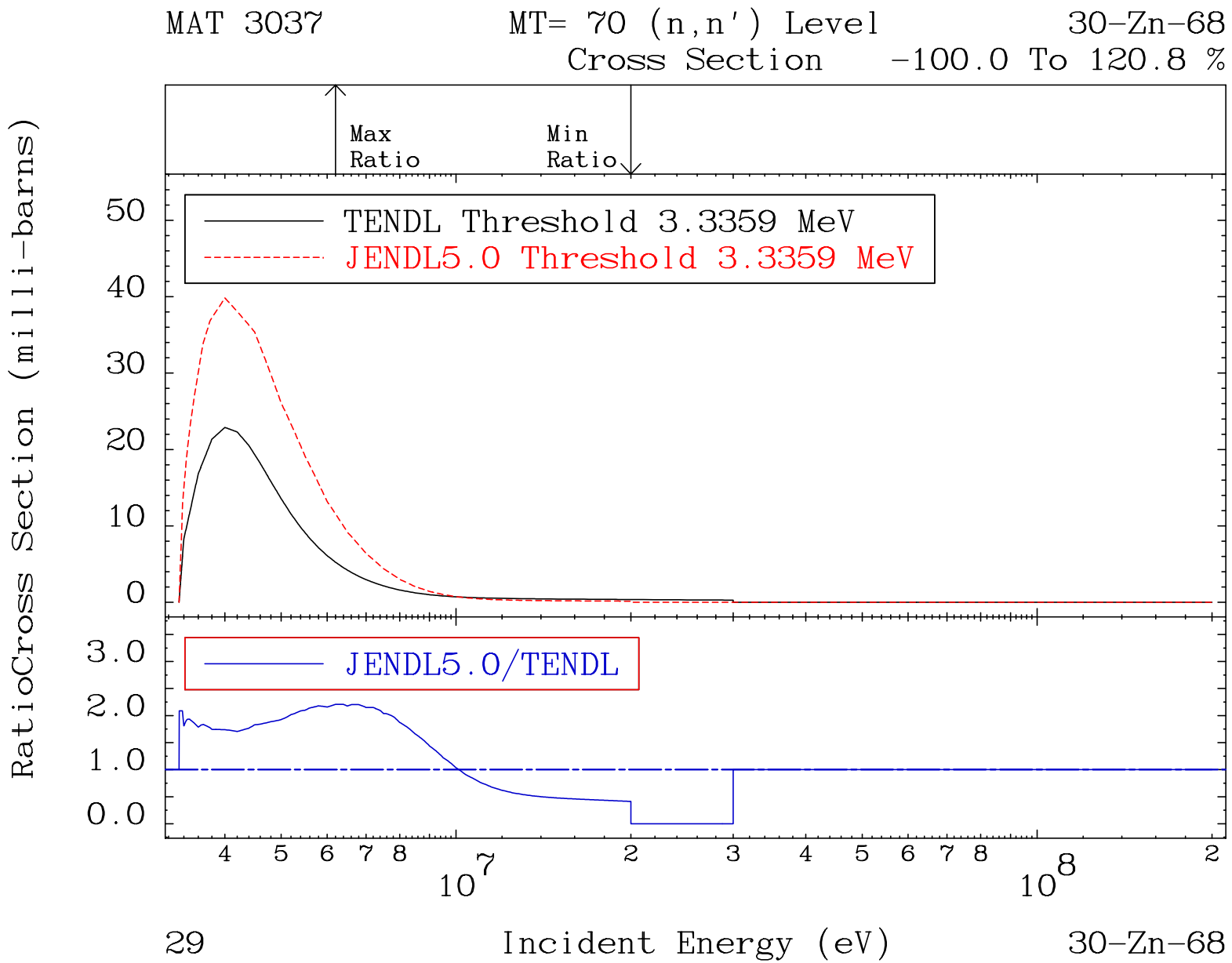

MAT 3037
MT= 65 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 644.5 %
Max Ratio
Min Ratio
TENDL Threshold 3.2070 MeV
JENDL5.0 Threshold 3.2070 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
8
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
30-Zn-68

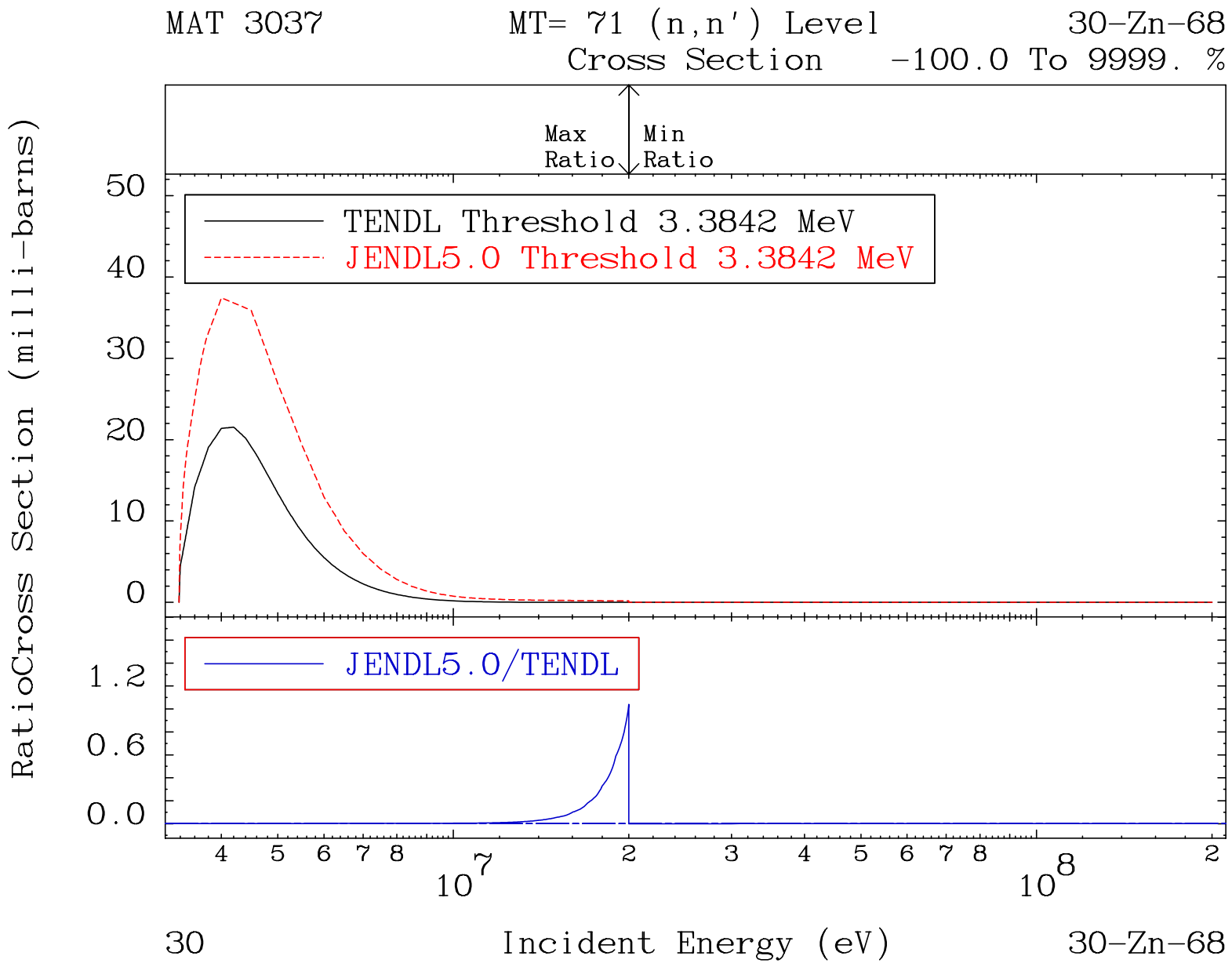

MAT 3037
MT= 66 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.2114 MeV
JENDL5.0 Threshold 3.2114 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
100
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
30-Zn-68

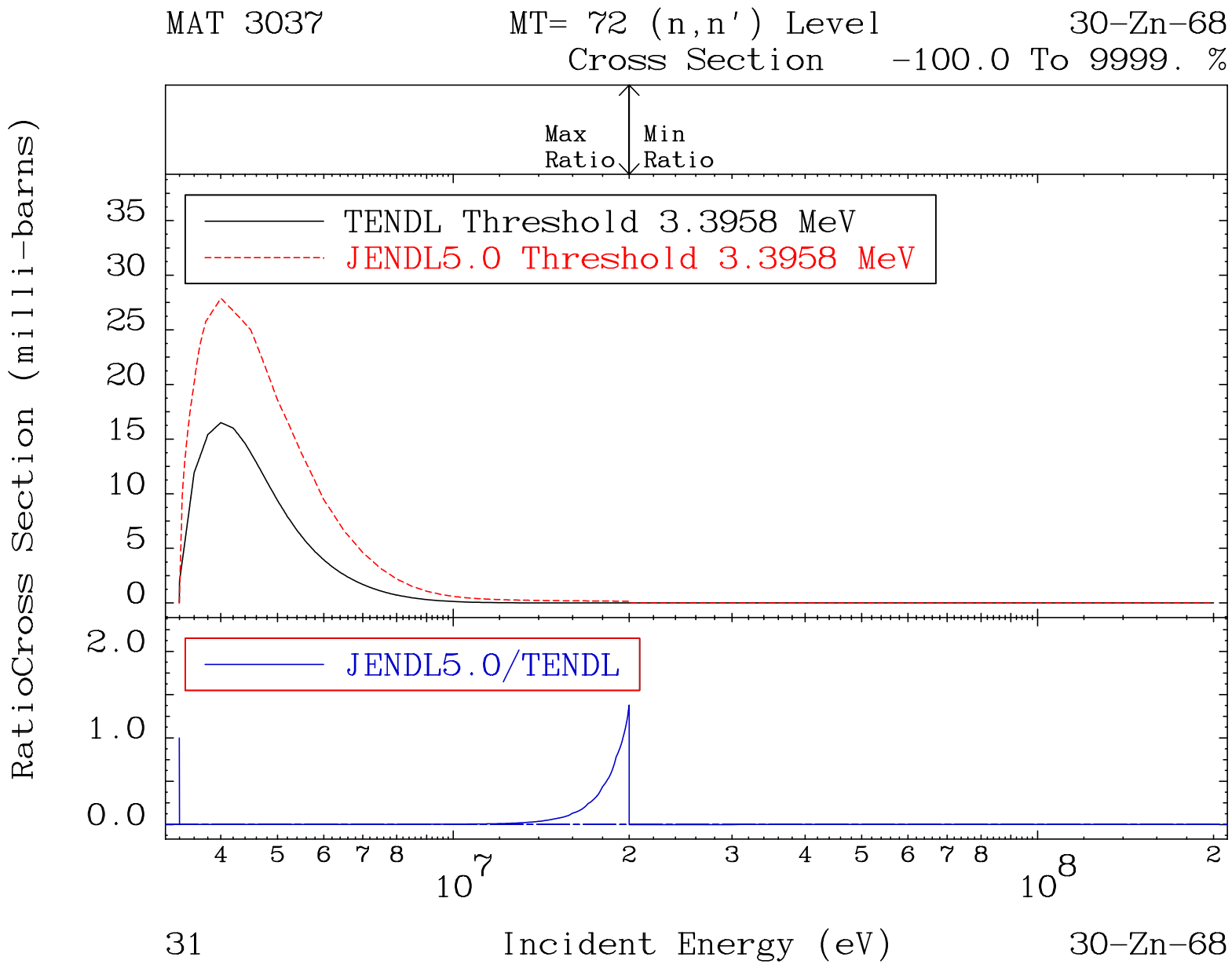

MAT 3037
MT= 67 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 738.6 %
Max Ratio
Min Ratio
TENDL Threshold 3.2315 MeV
JENDL5.0 Threshold 3.2315 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
12
8
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
30-Zn-68

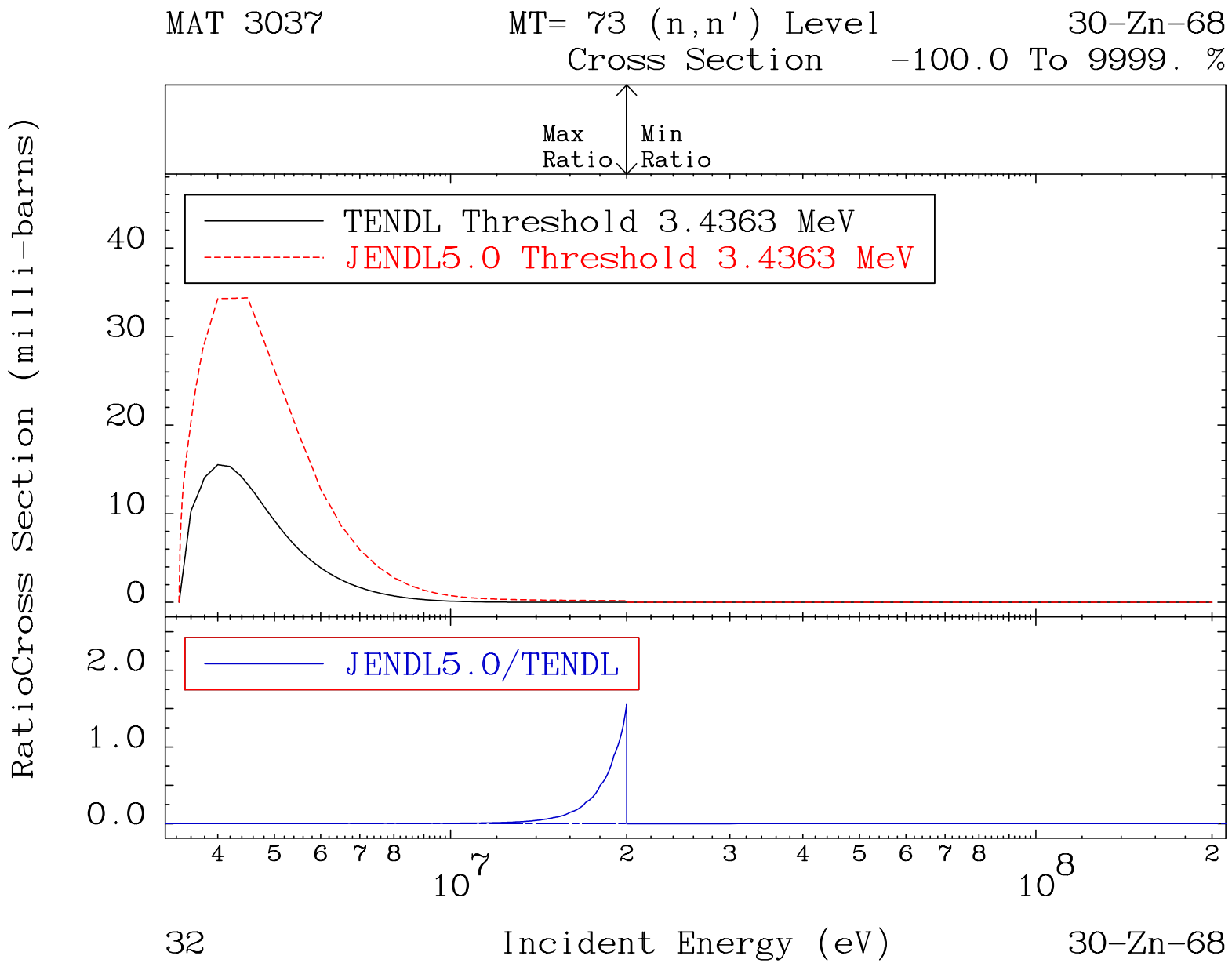

MAT 3037
MT= 68 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 143.0 %
Max Ratio
Min Ratio
TENDL Threshold 3.2339 MeV
JENDL5.0 Threshold 3.2339 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
30-Zn-68

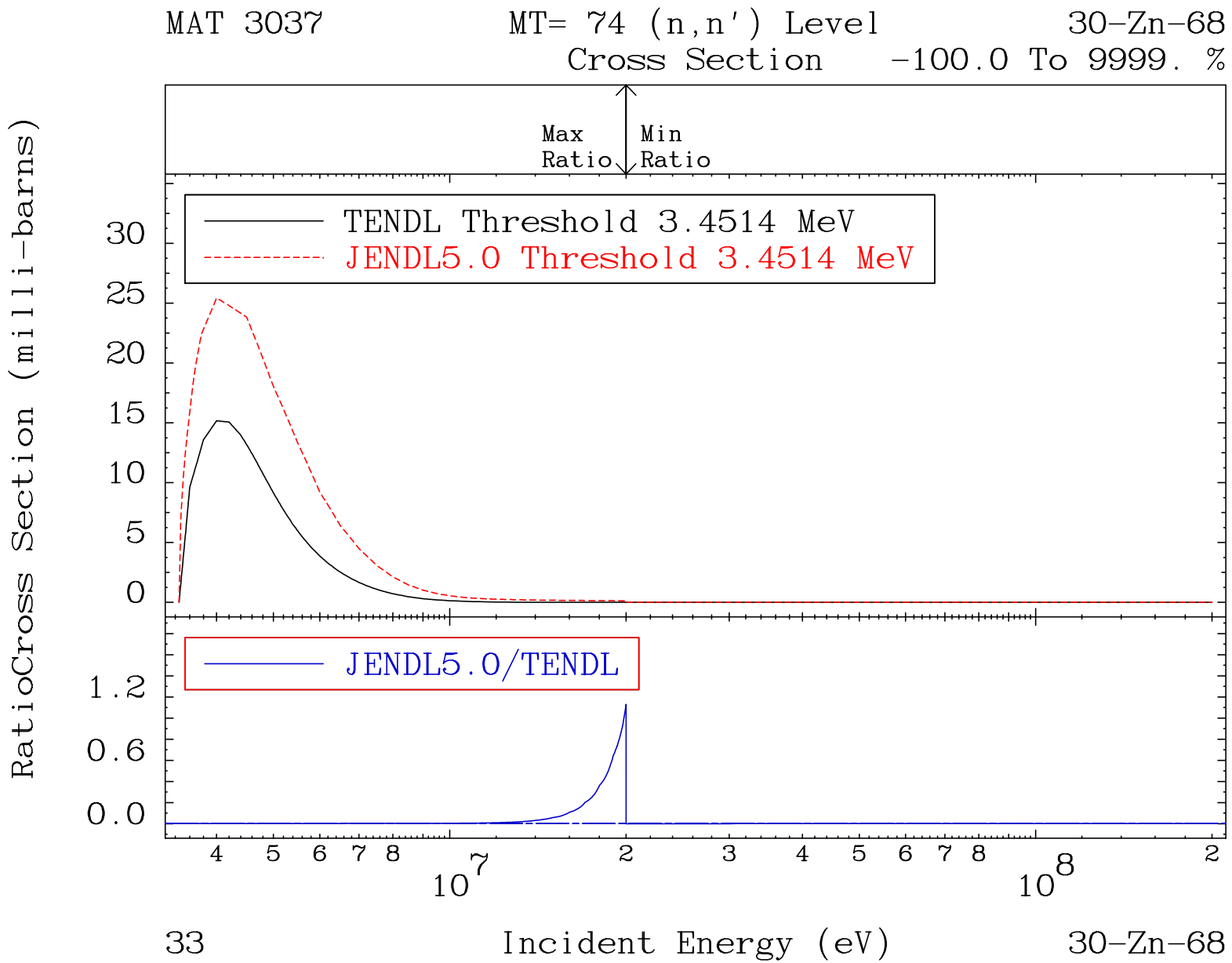

MAT 3037
MT= 69 (n,n') Level
Cross Section
30-Zn-68
-100.0 To 391.8 %
Max Ratio
Min Ratio
TENDL Threshold 3.3303 MeV
JENDL5.0 Threshold 3.3303 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
30-Zn-68

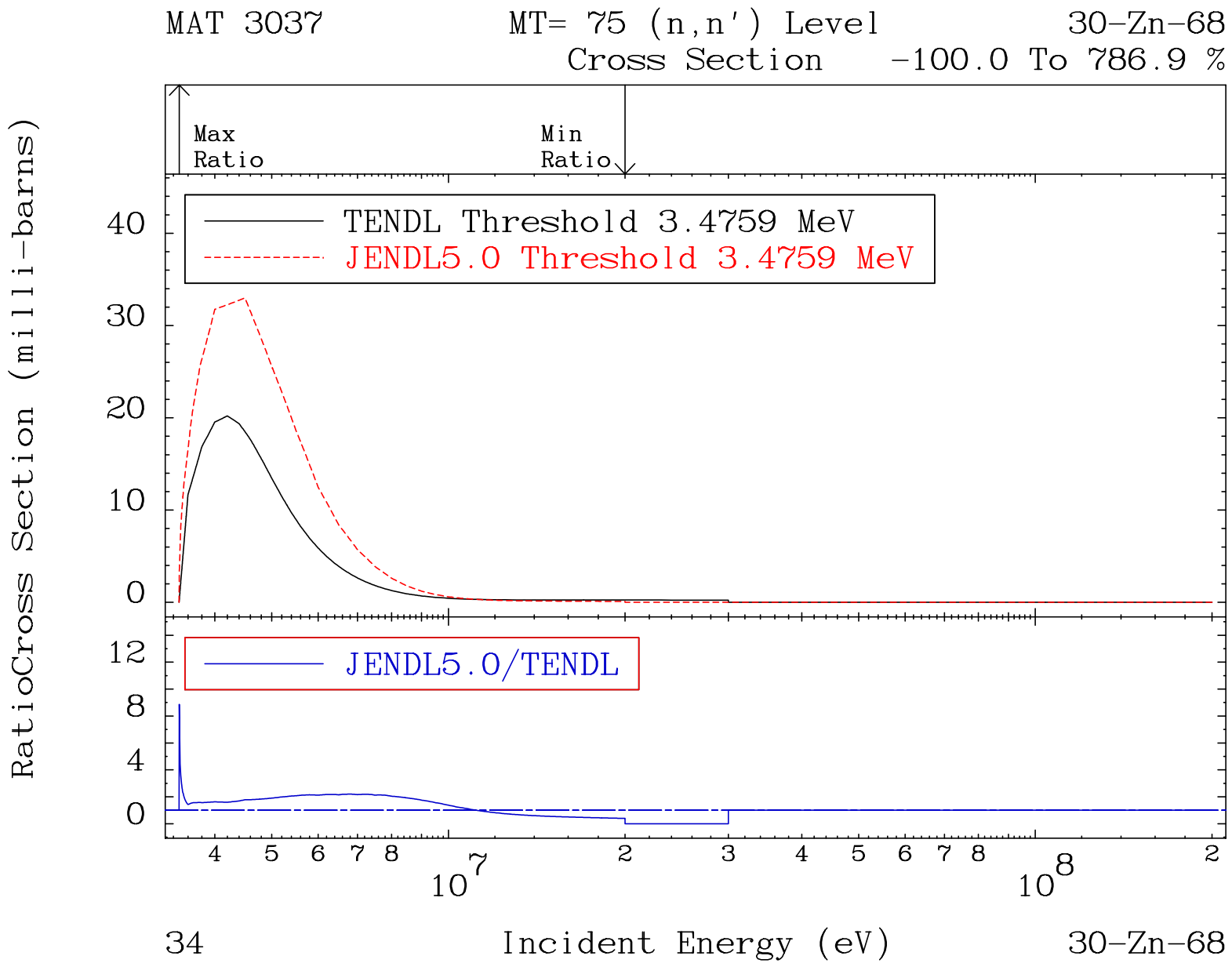

MAT 3037
MT= 70 (n,n') Level
30-Zn-68
Cross Section -100.0 To 120.8 %
Max Ratio
Min Ratio
TENDL Threshold 3.3359 MeV
JENDL5.0 Threshold 3.3359 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
3.0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
30-Zn-68

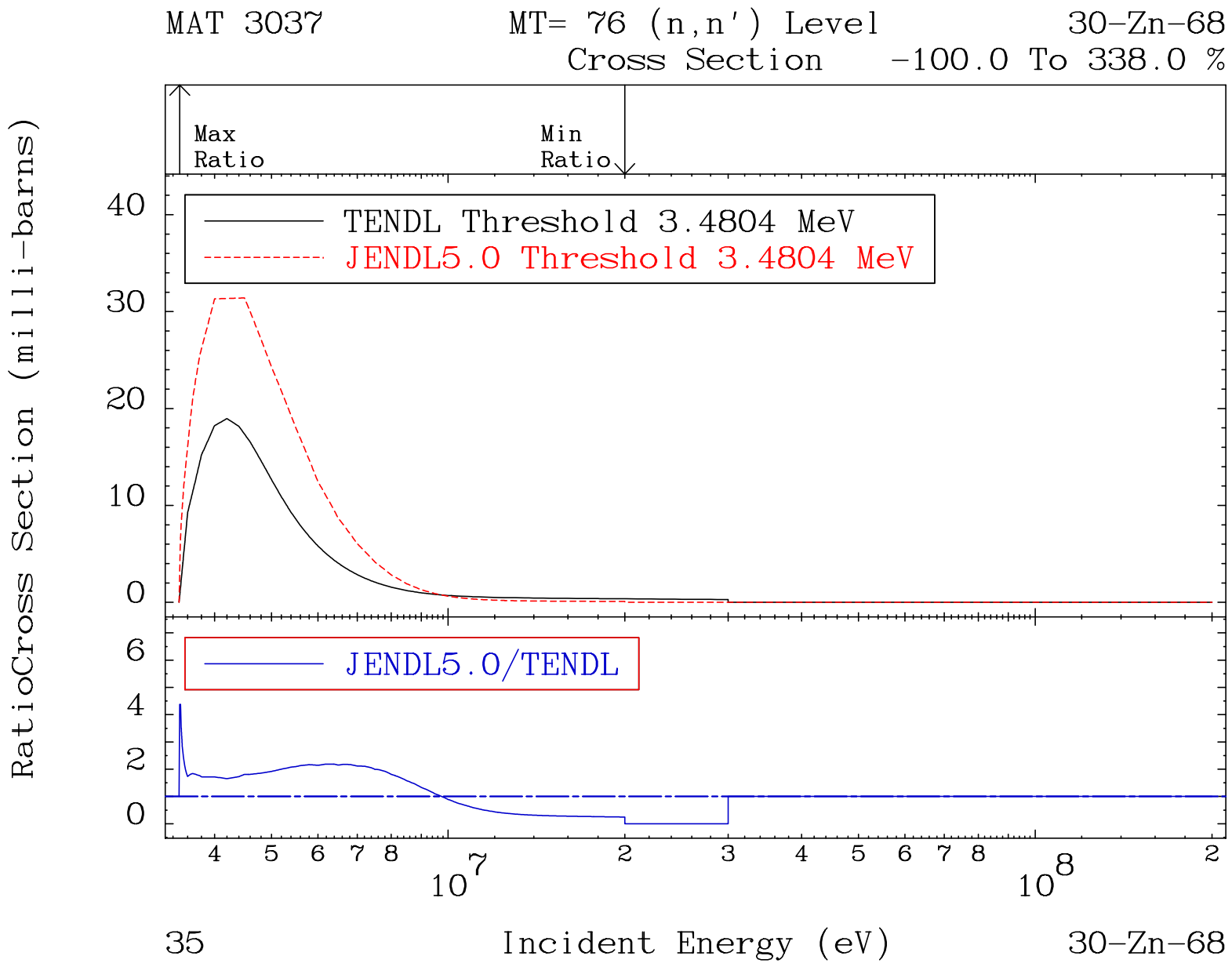

MAT 3037
MT= 71 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3842 MeV
JENDL5.0 Threshold 3.3842 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
30-Zn-68

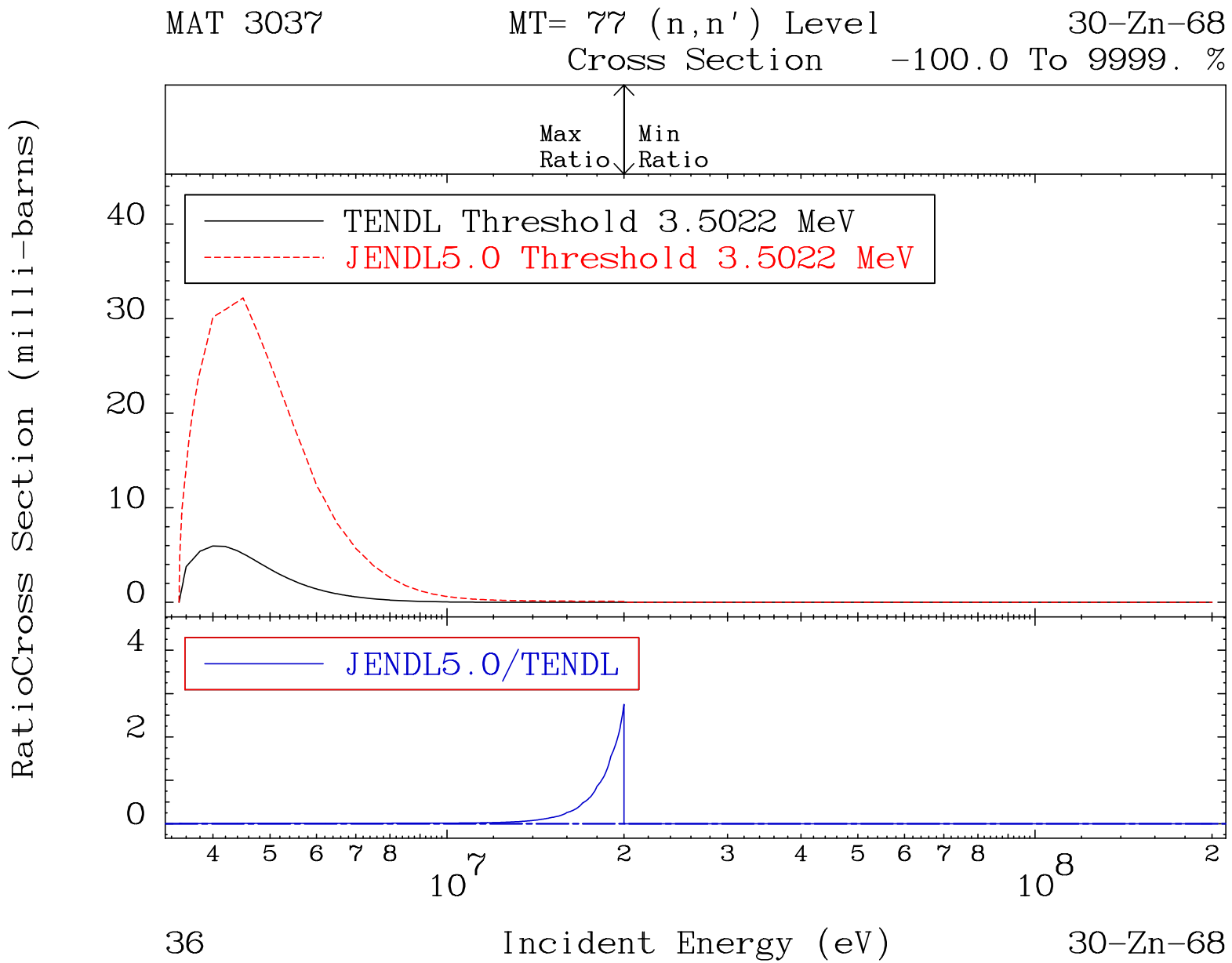

MAT 3037
MT= 72 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.3958 MeV
JENDL5.0 Threshold 3.3958 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
30-Zn-68

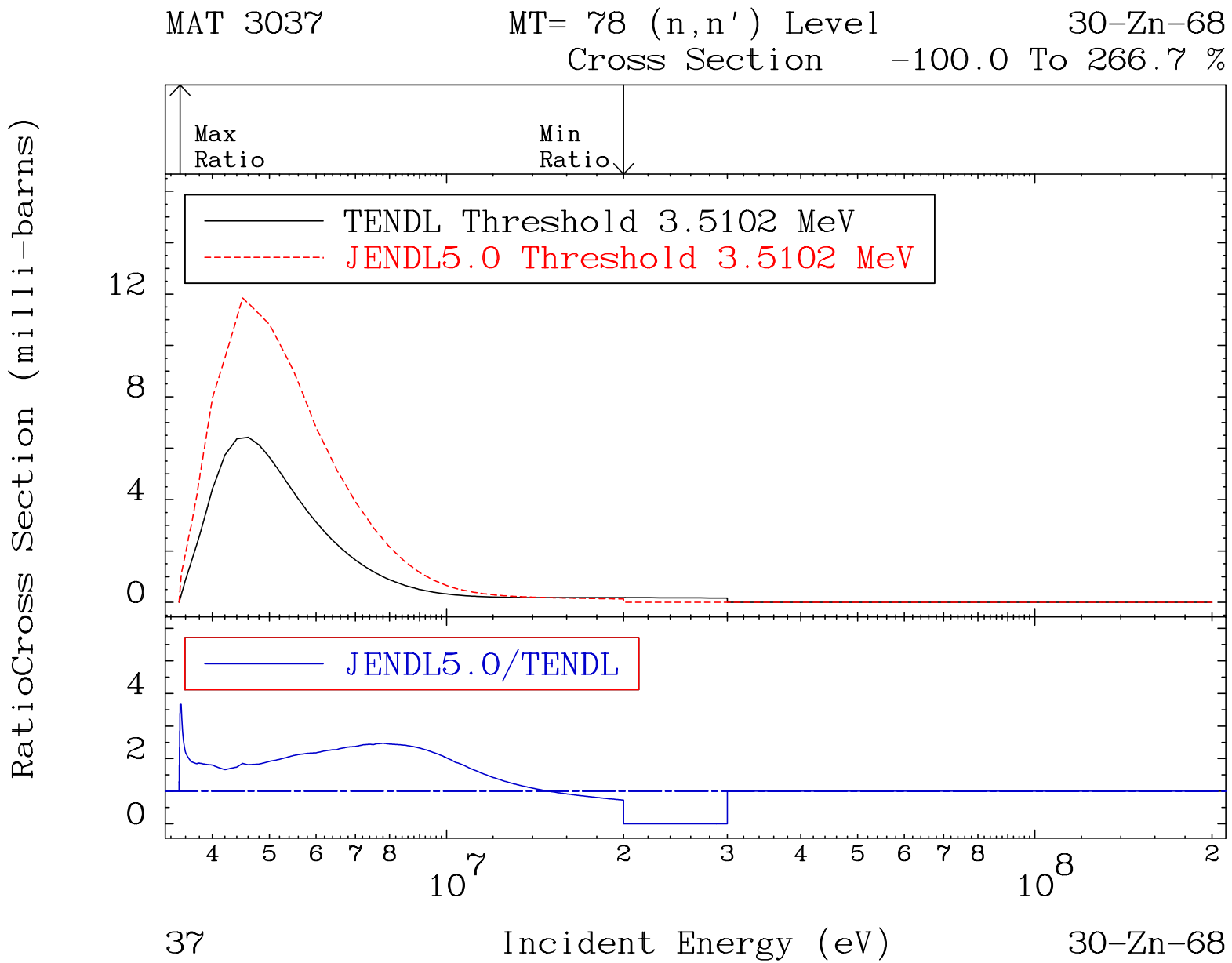

MAT 3037
MT= 73 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4363 MeV
JENDL5.0 Threshold 3.4363 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
30-Zn-68

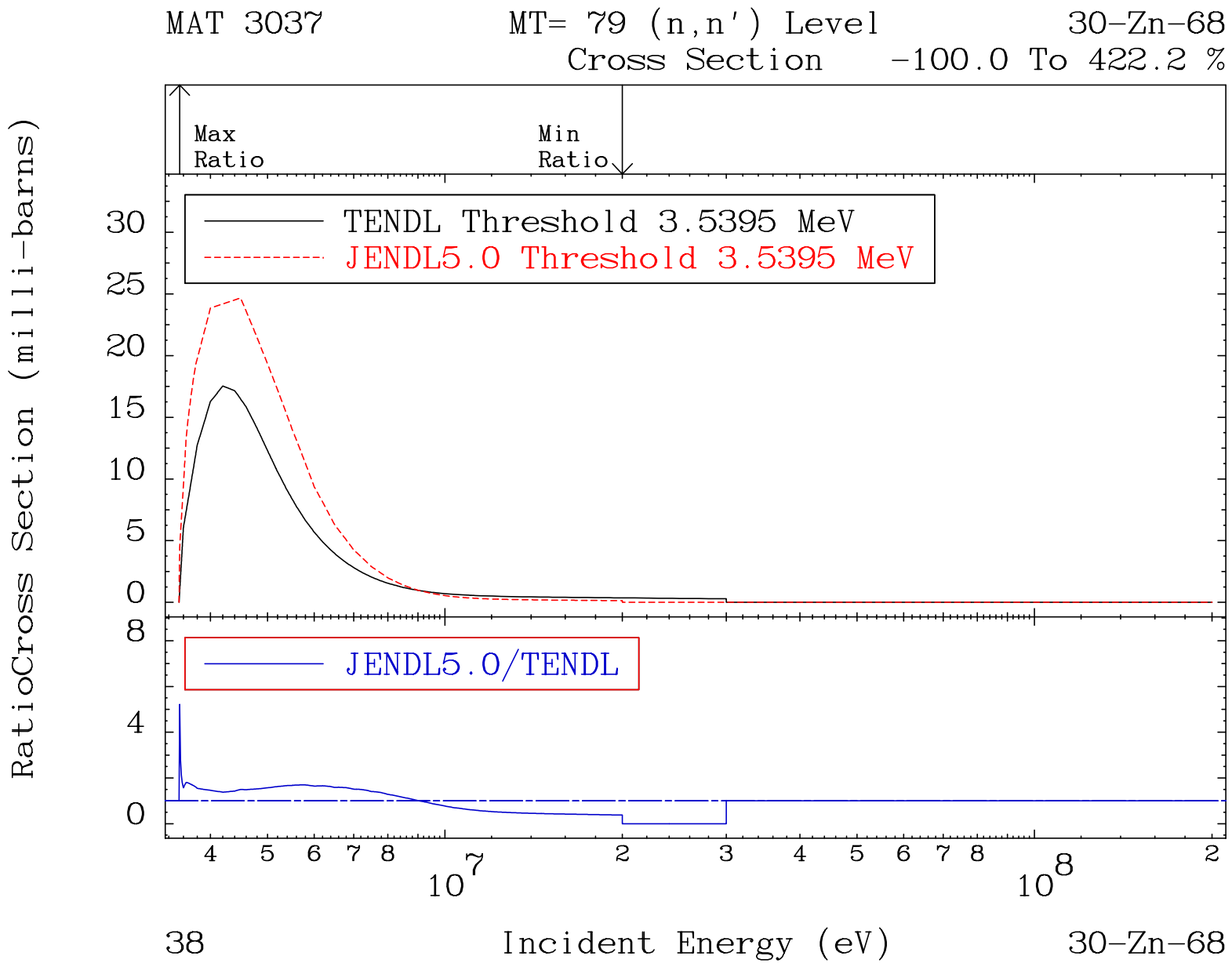

MAT 3037
MT= 74 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4514 MeV
JENDL5.0 Threshold 3.4514 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
30-Zn-68

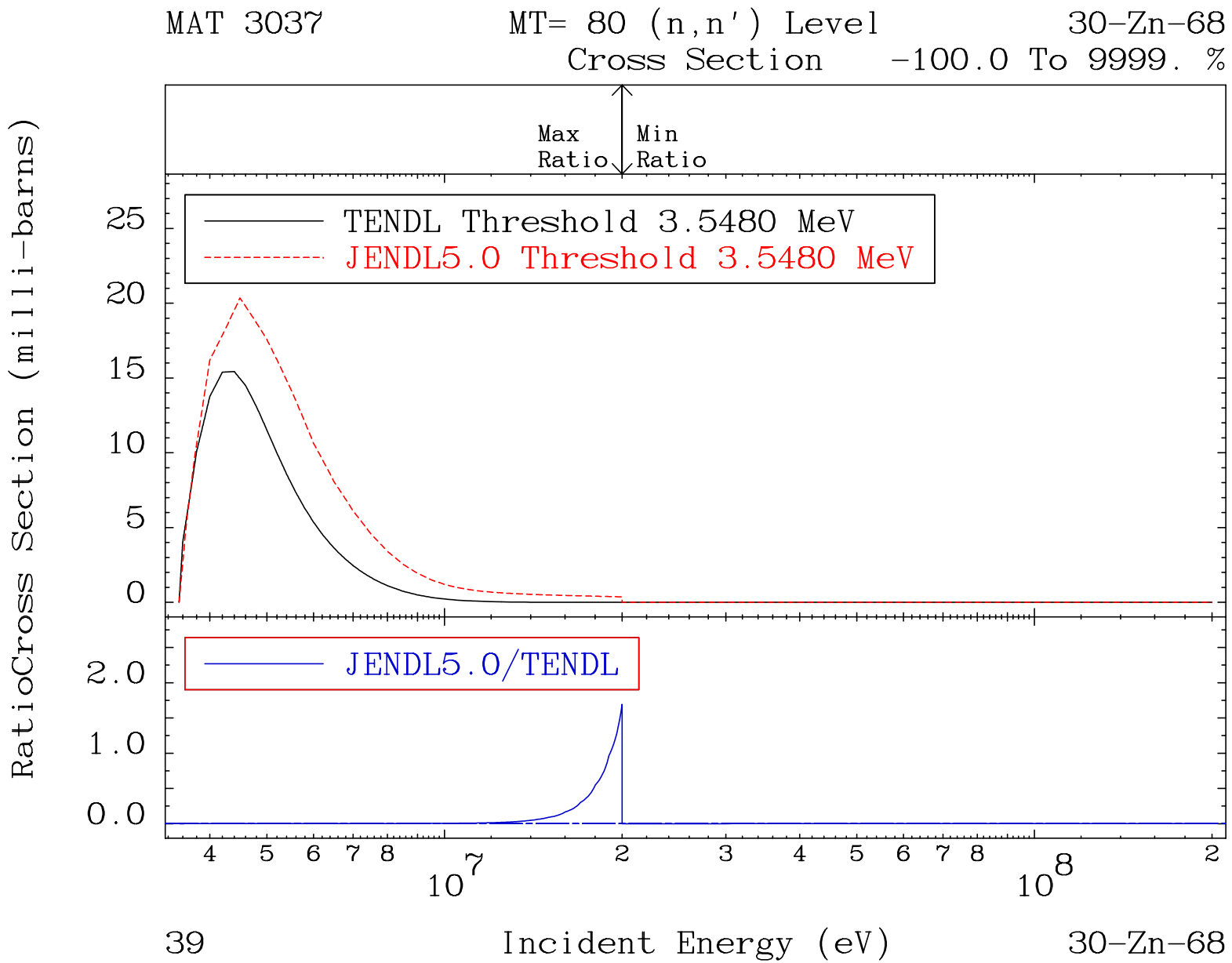

MAT 3037
MT= 75 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 786.9 %
Max Ratio
Min Ratio
TENDL Threshold 3.4759 MeV
JENDL5.0 Threshold 3.4759 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
12
8
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
30-Zn-68

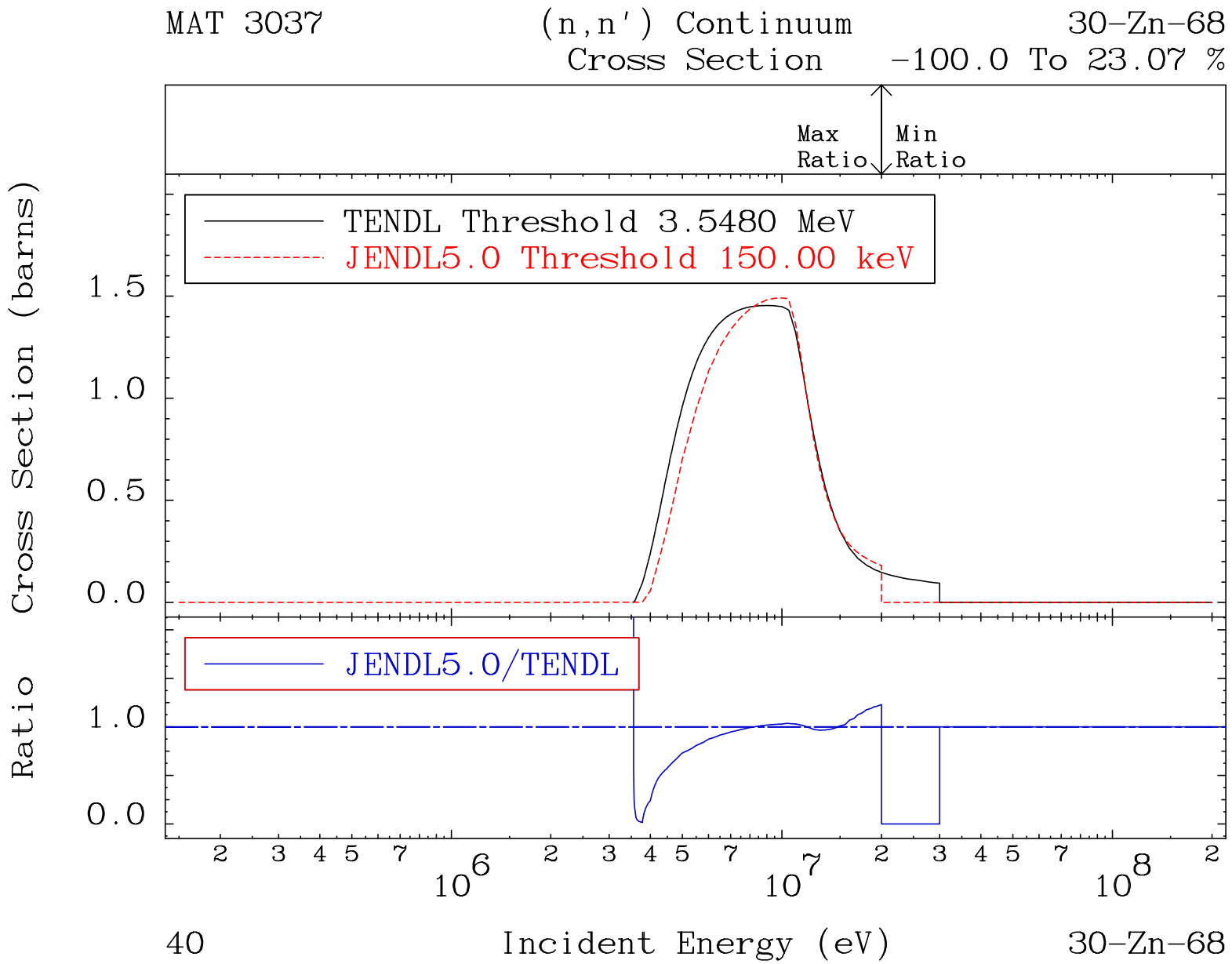

MAT 3037
MT= 76 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 338.0 %
Max Ratio
Min Ratio
TENDL Threshold 3.4804 MeV
JENDL5.0 Threshold 3.4804 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
30-Zn-68

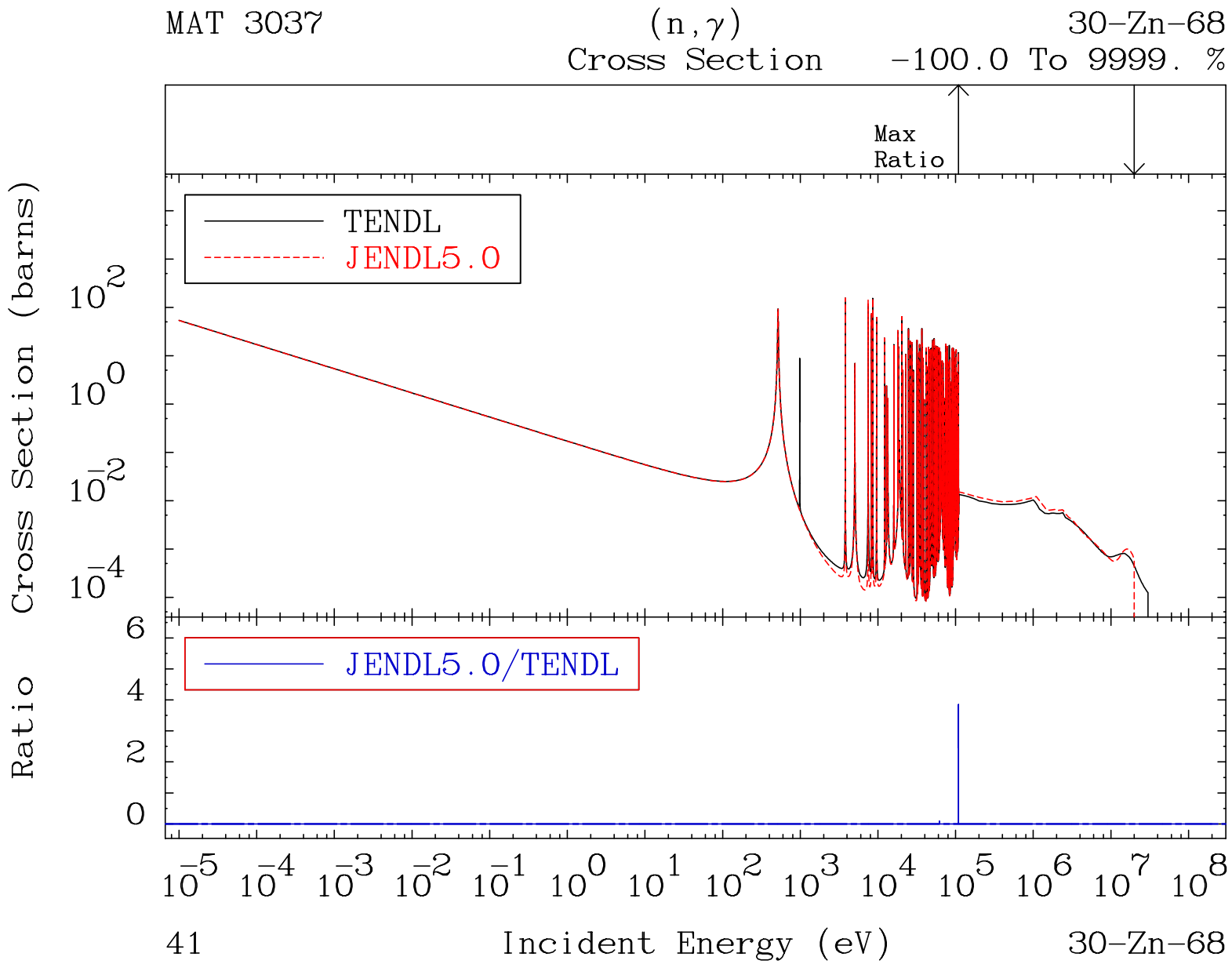

MAT 3037
MT= 77 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.5022 MeV
JENDL5.0 Threshold 3.5022 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
30-Zn-68

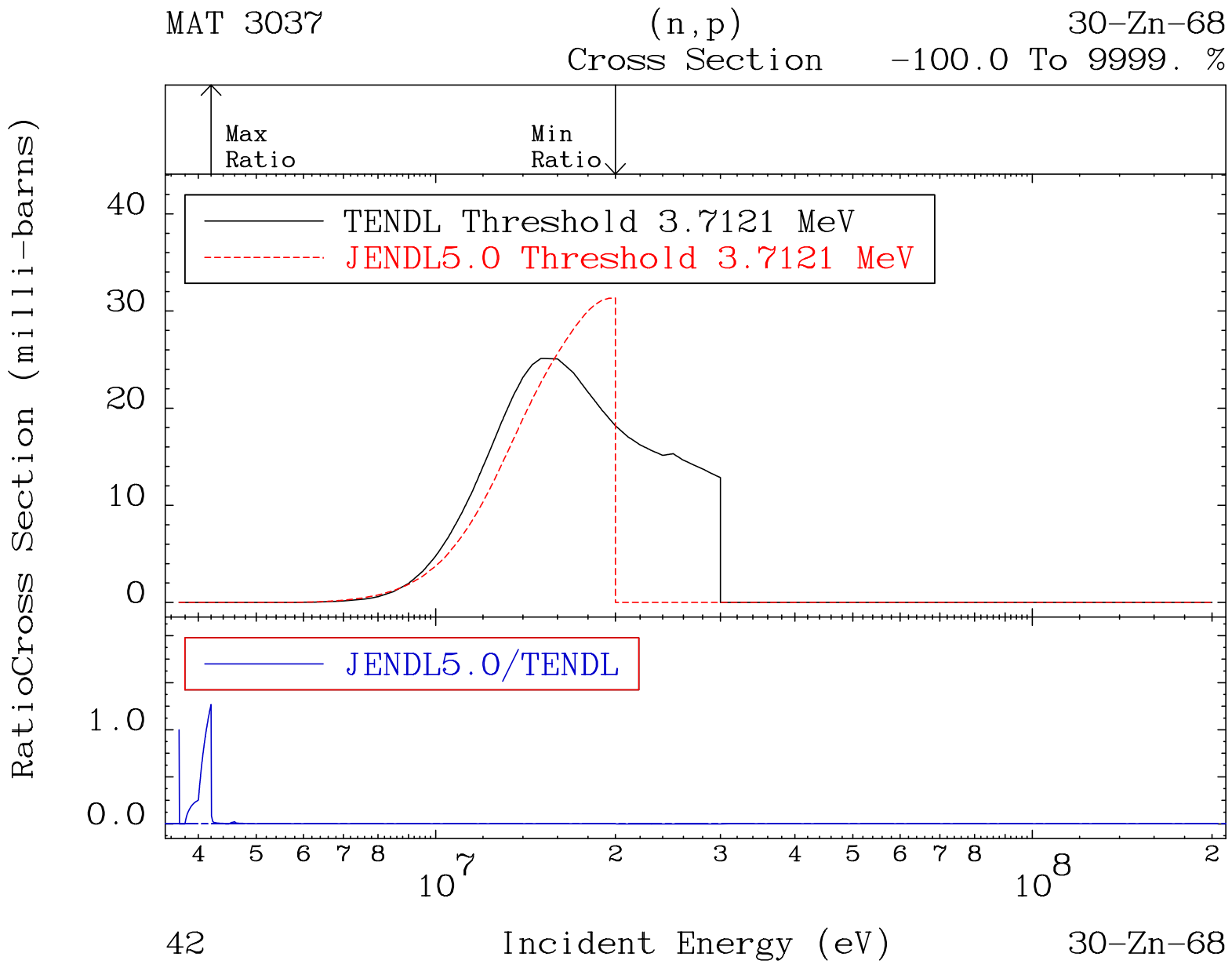

MAT 3037
MT= 78 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 266.7 %
Max Ratio
Min Ratio
TENDL Threshold 3.5102 MeV
JENDL5.0 Threshold 3.5102 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
12
8
4
0
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
30-Zn-68

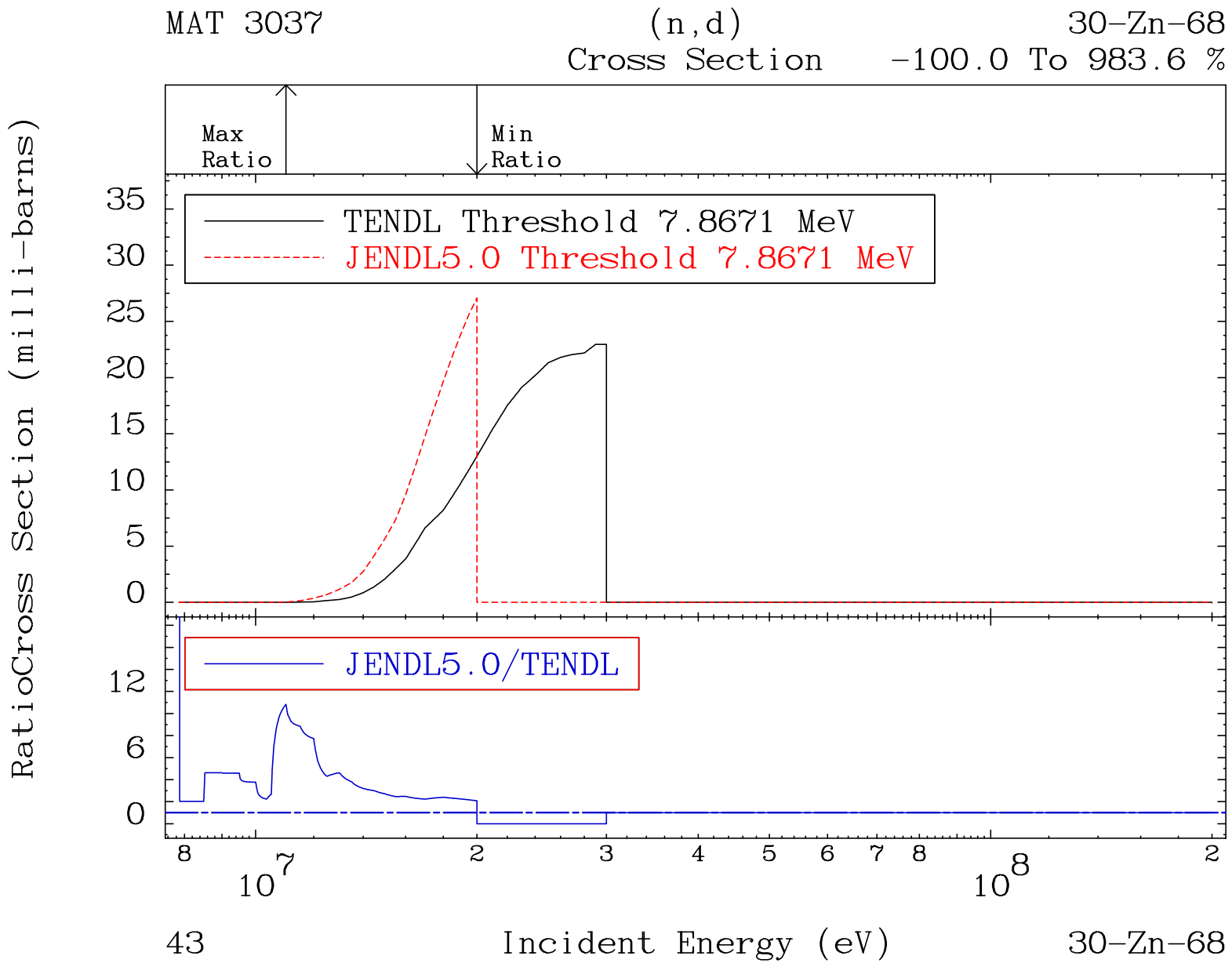

MAT 3037
MT= 79 (n,n') Level
30-Zn-68
Cross Section
-100.0 To 422.2 %
Max Ratio
Min Ratio
TENDL Threshold 3.5395 MeV
JENDL5.0 Threshold 3.5395 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
8
4
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
30-Zn-68

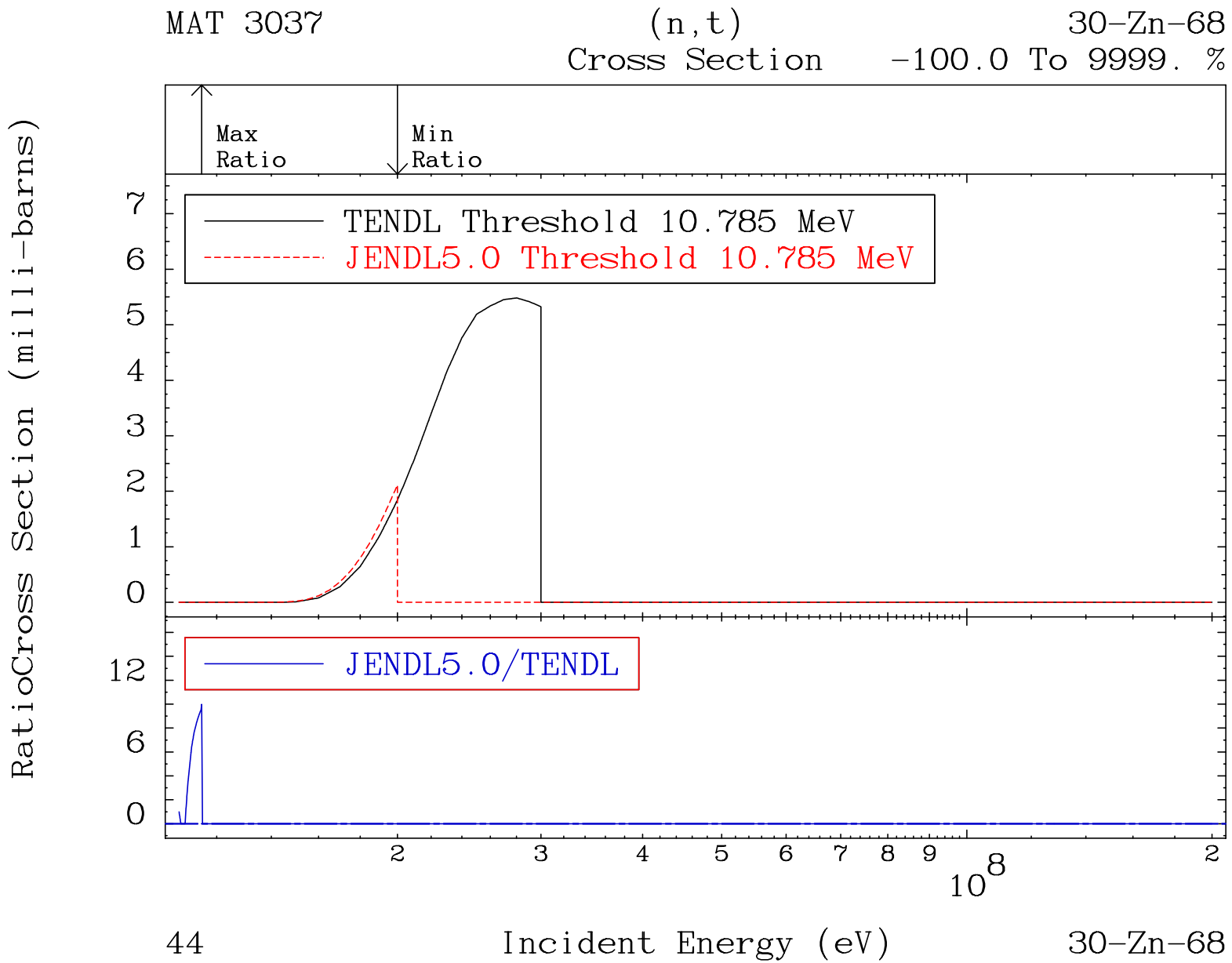

MAT 3037
MT= 80 (n,n') Level
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.5480 MeV
JENDL5.0 Threshold 3.5480 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
30-Zn-68

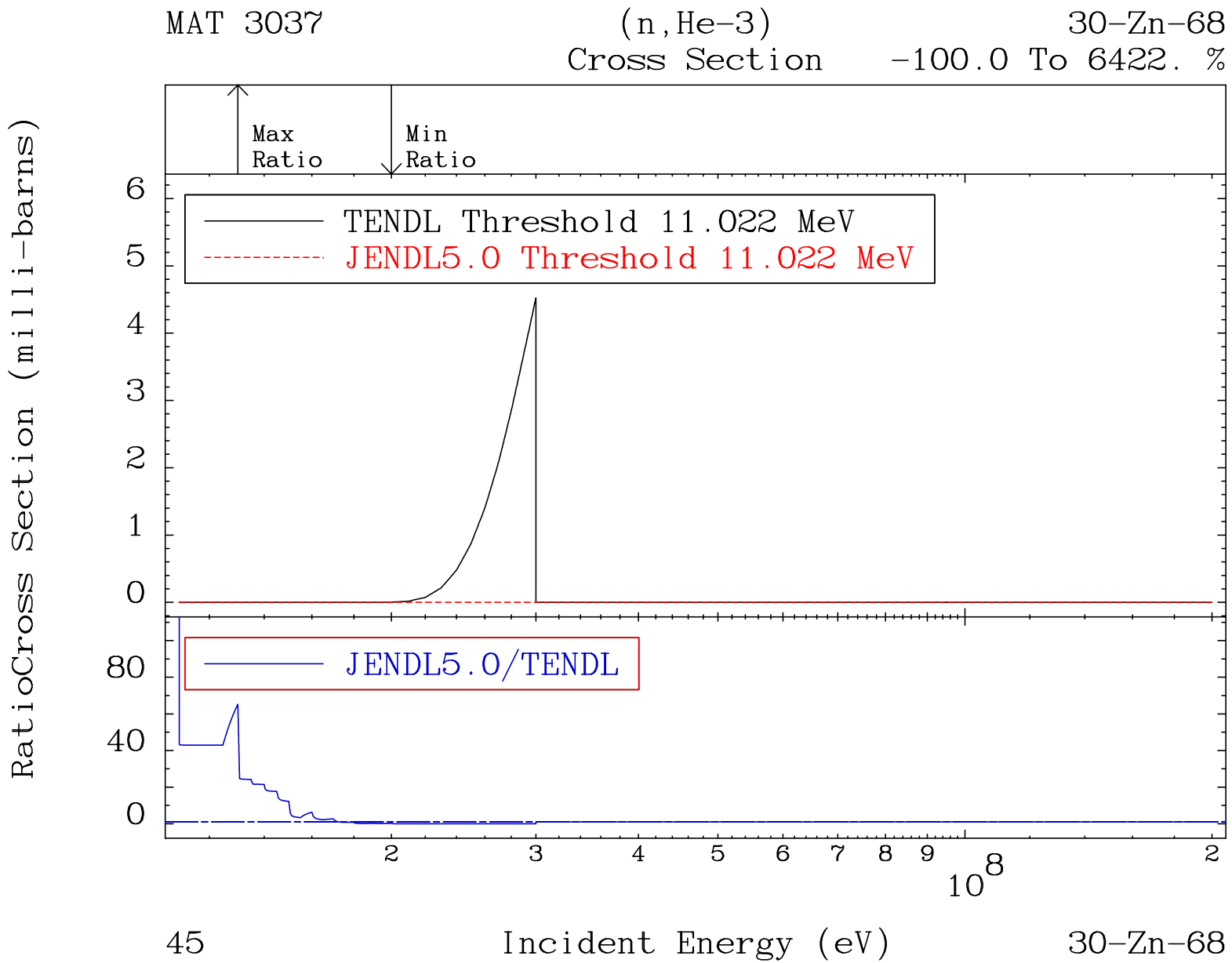

MAT 3037
(n,n') Continuum
Cross Section
30-Zn-68
-100.0 To 23.07 %
Max Ratio
Min Ratio
TENDL Threshold 3.5480 MeV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
40
Incident Energy (eV)
30-Zn-68

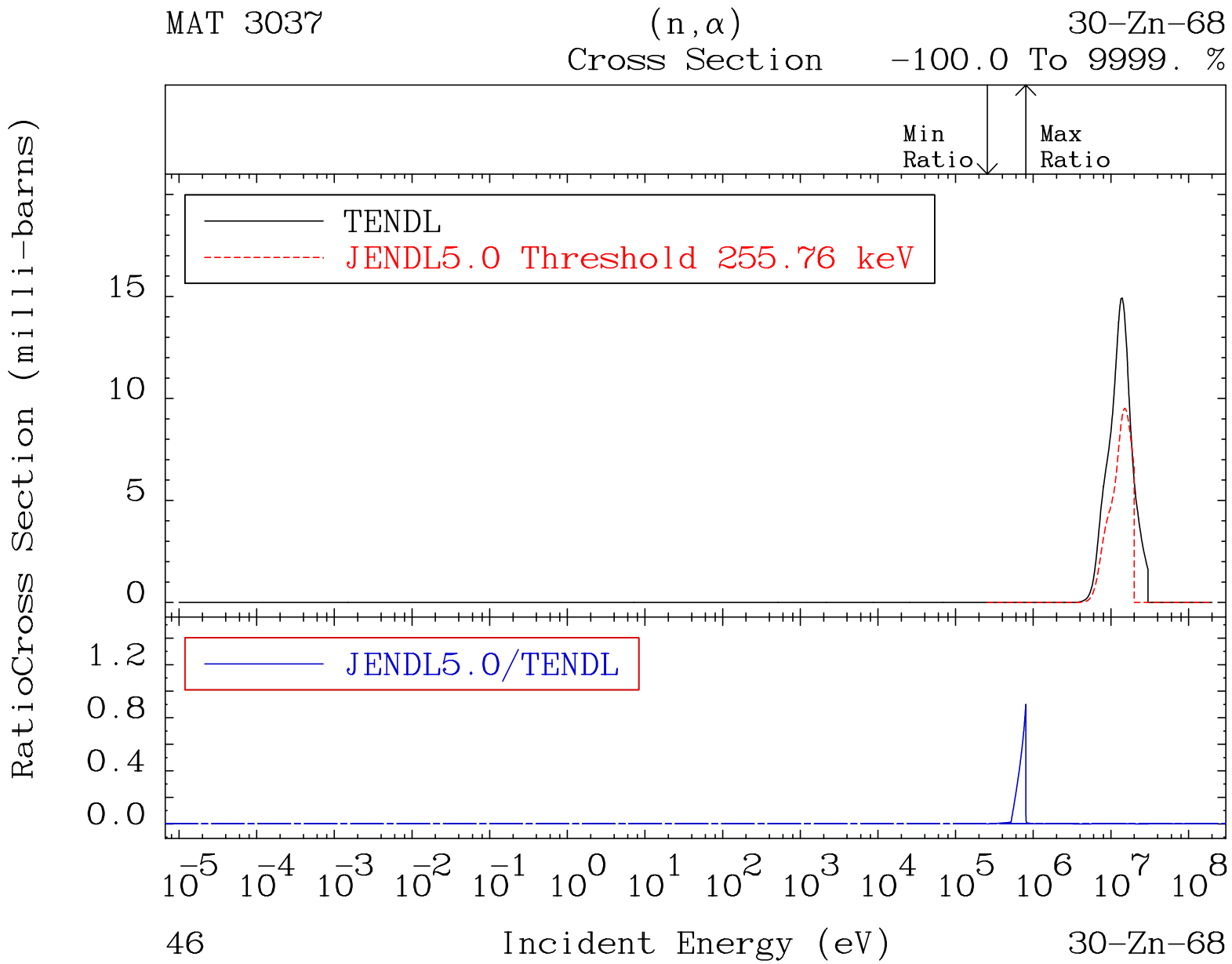

MAT 3037
(n,γ)
Cross Section
30-Zn-68
-100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^2
10^0
10^-2
10^-4
JENDL5.0/TENDL
Ratio
6
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
41
Incident Energy (eV)
30-Zn-68

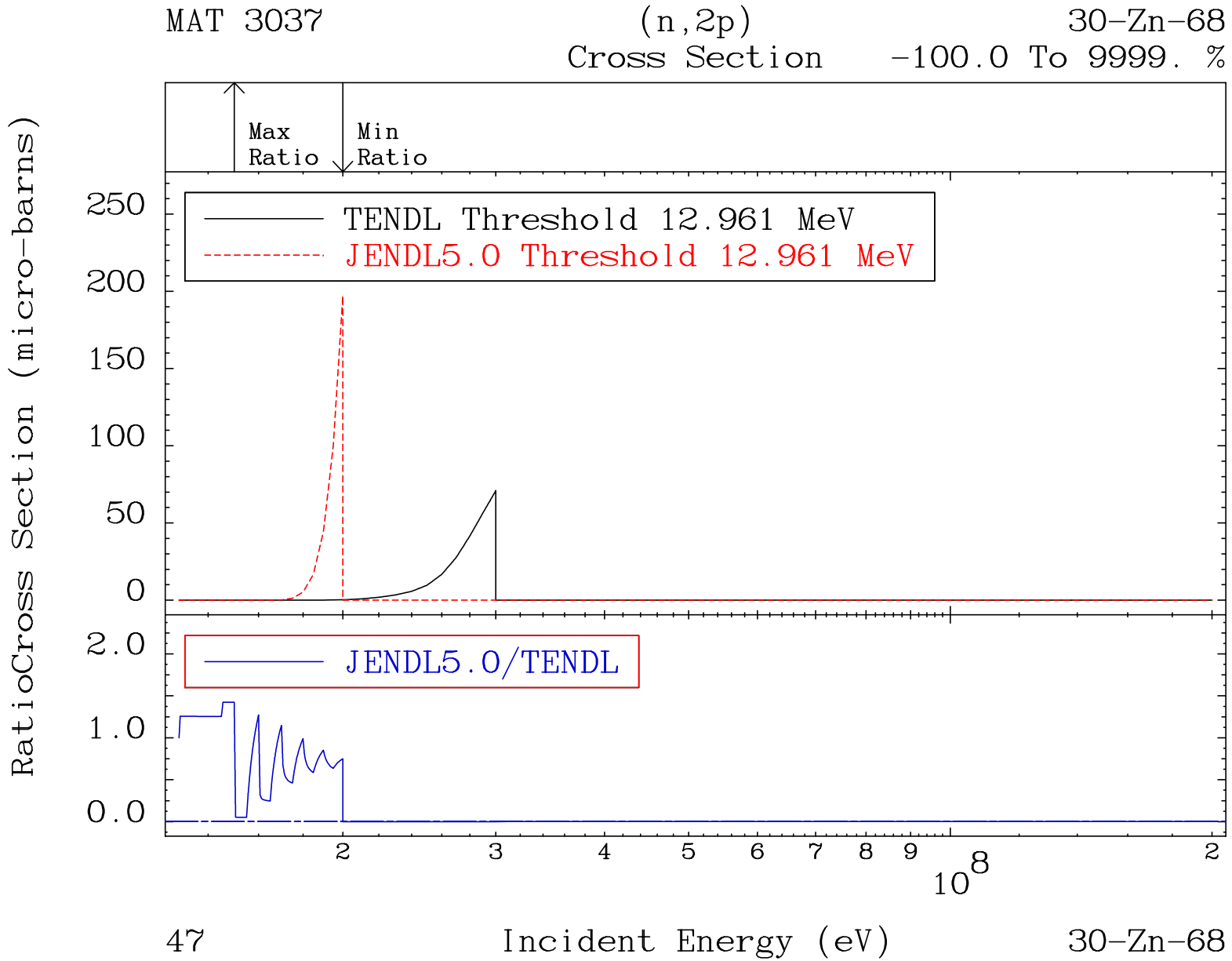

MAT 3037
(n,p)
30-Zn-68
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.7121 MeV
JENDL5.0 Threshold 3.7121 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
42
Incident Energy (eV)
30-Zn-68

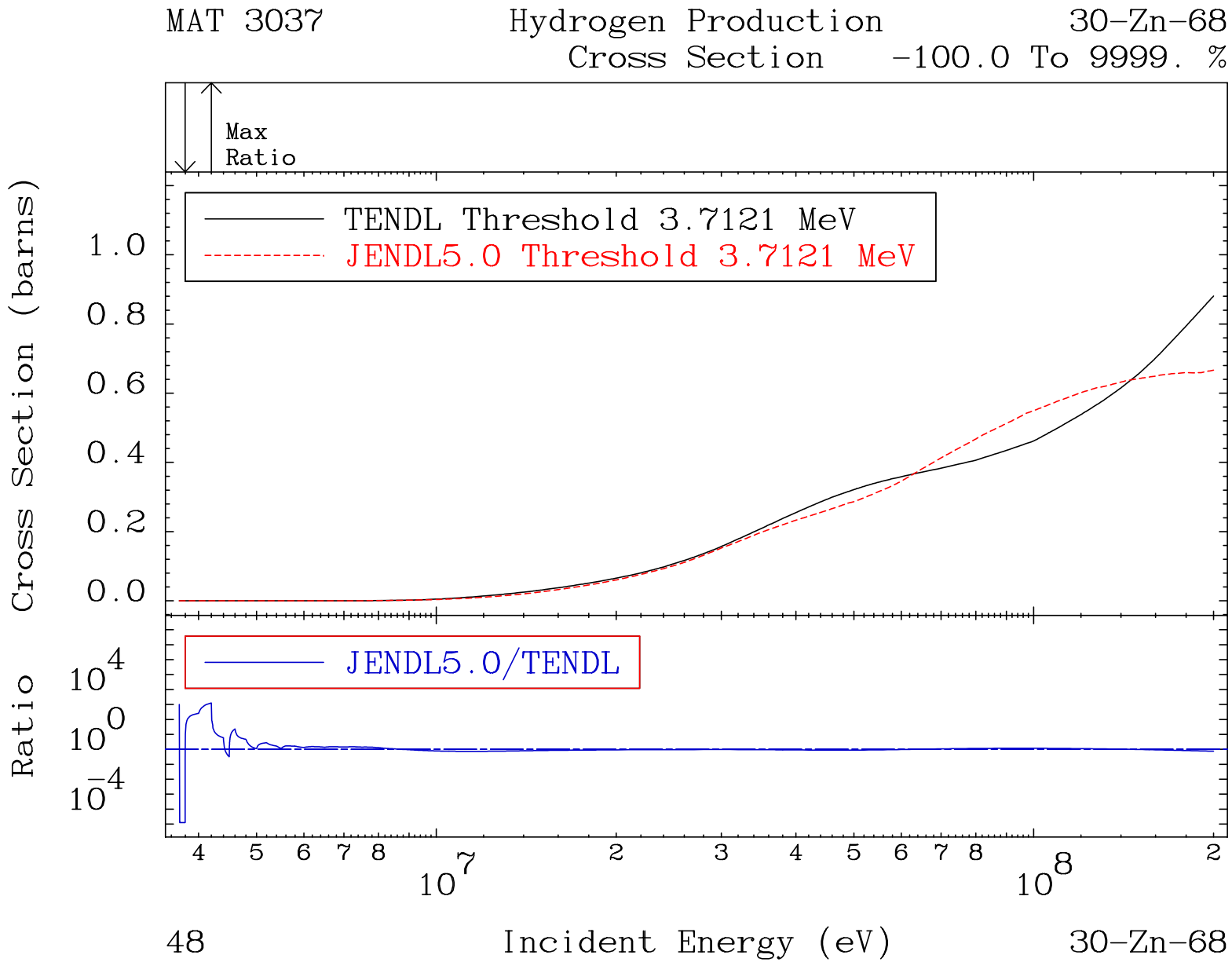

MAT 3037
(n,d)
30-Zn-68
Cross Section
-100.0 To 983.6 %
Max Ratio
Min Ratio
TENDL Threshold 7.8671 MeV
JENDL5.0 Threshold 7.8671 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
12
6
0
8
2
3
4
5
6
7
8
2
10^7
10^8
43
Incident Energy (eV)
30-Zn-68

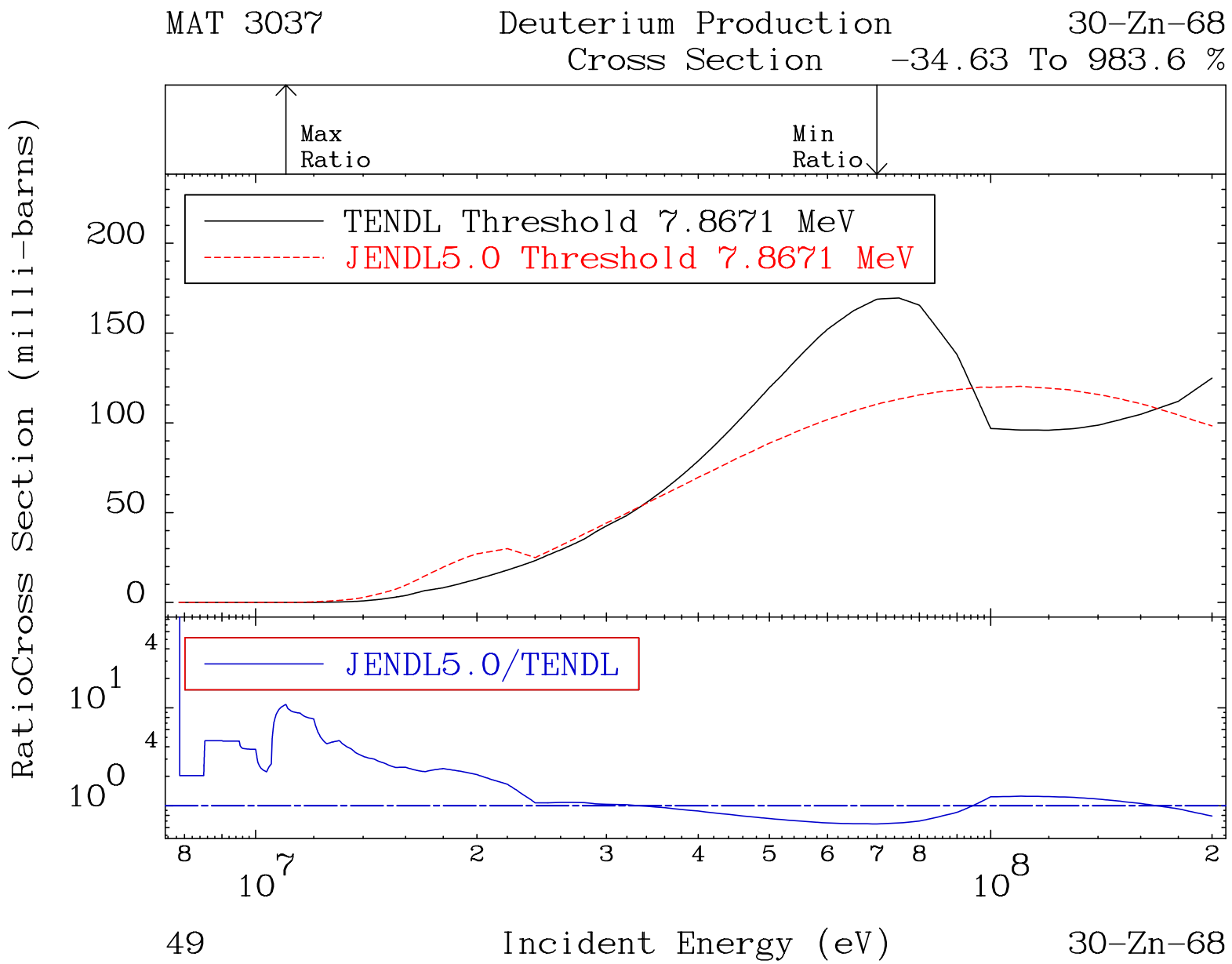

MAT 3037
(n,t)
30-Zn-68
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.785 MeV
JENDL5.0 Threshold 10.785 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
7
12
6
0
2
3
4
5
6
7
8
9
2
10^8
44
Incident Energy (eV)
30-Zn-68

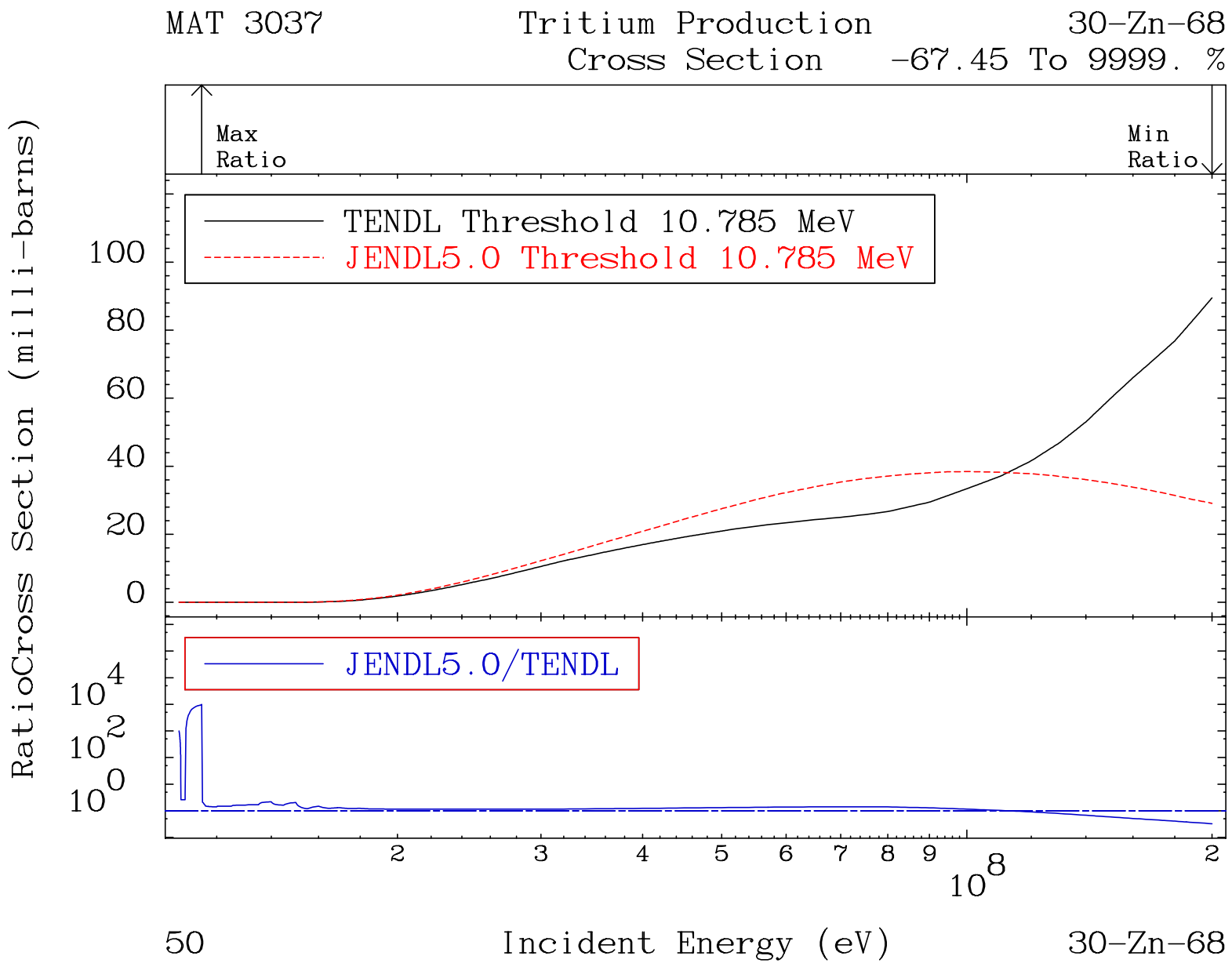

MAT 3037
(n,He-3)
Cross Section
30-Zn-68
-100.0 To 6422. %
Max Ratio
Min Ratio
TENDL Threshold 11.022 MeV
JENDL5.0 Threshold 11.022 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
45
30-Zn-68

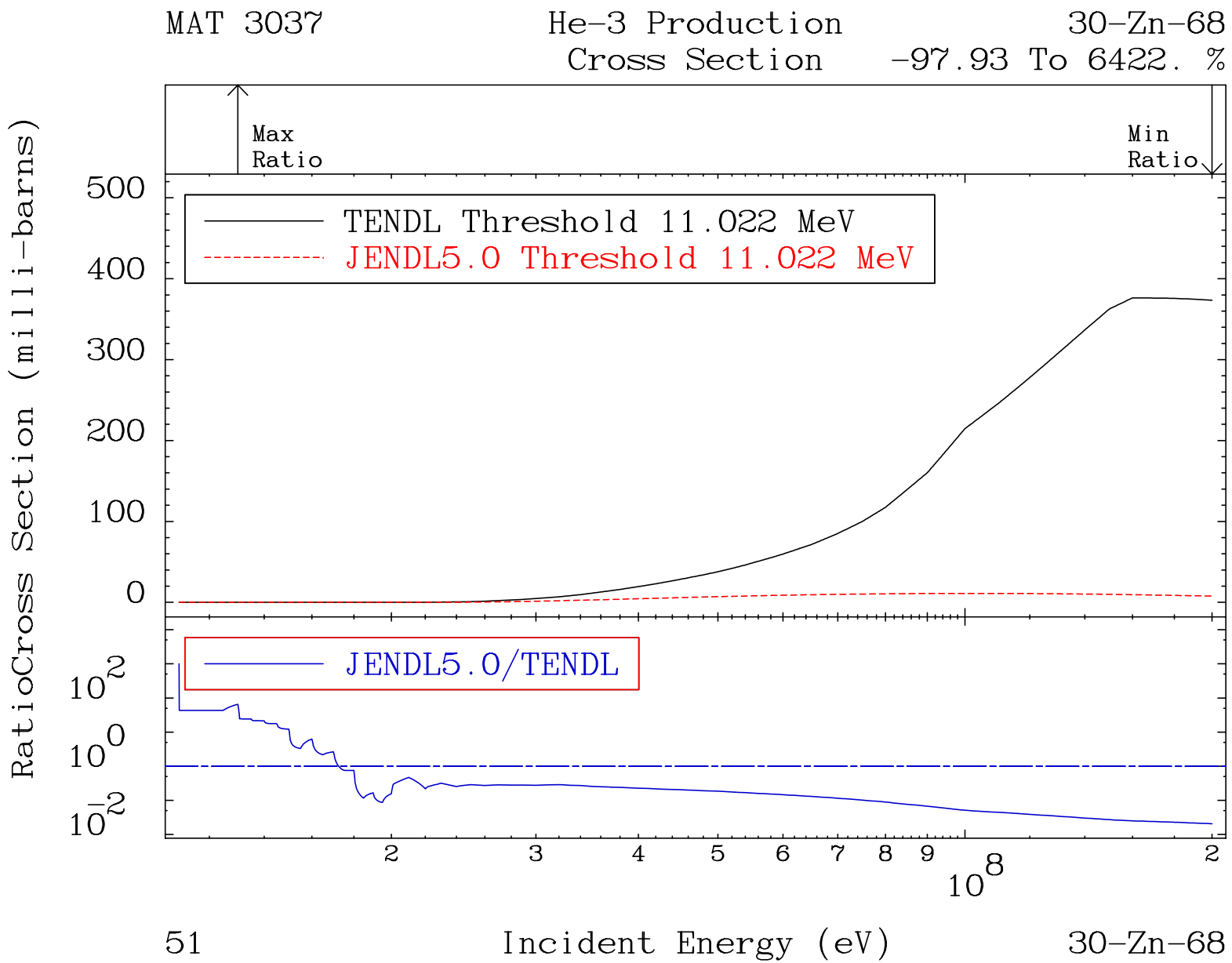

MAT 3037
(n,α)
Cross Section
30-Zn-68
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 255.76 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
46
30-Zn-68

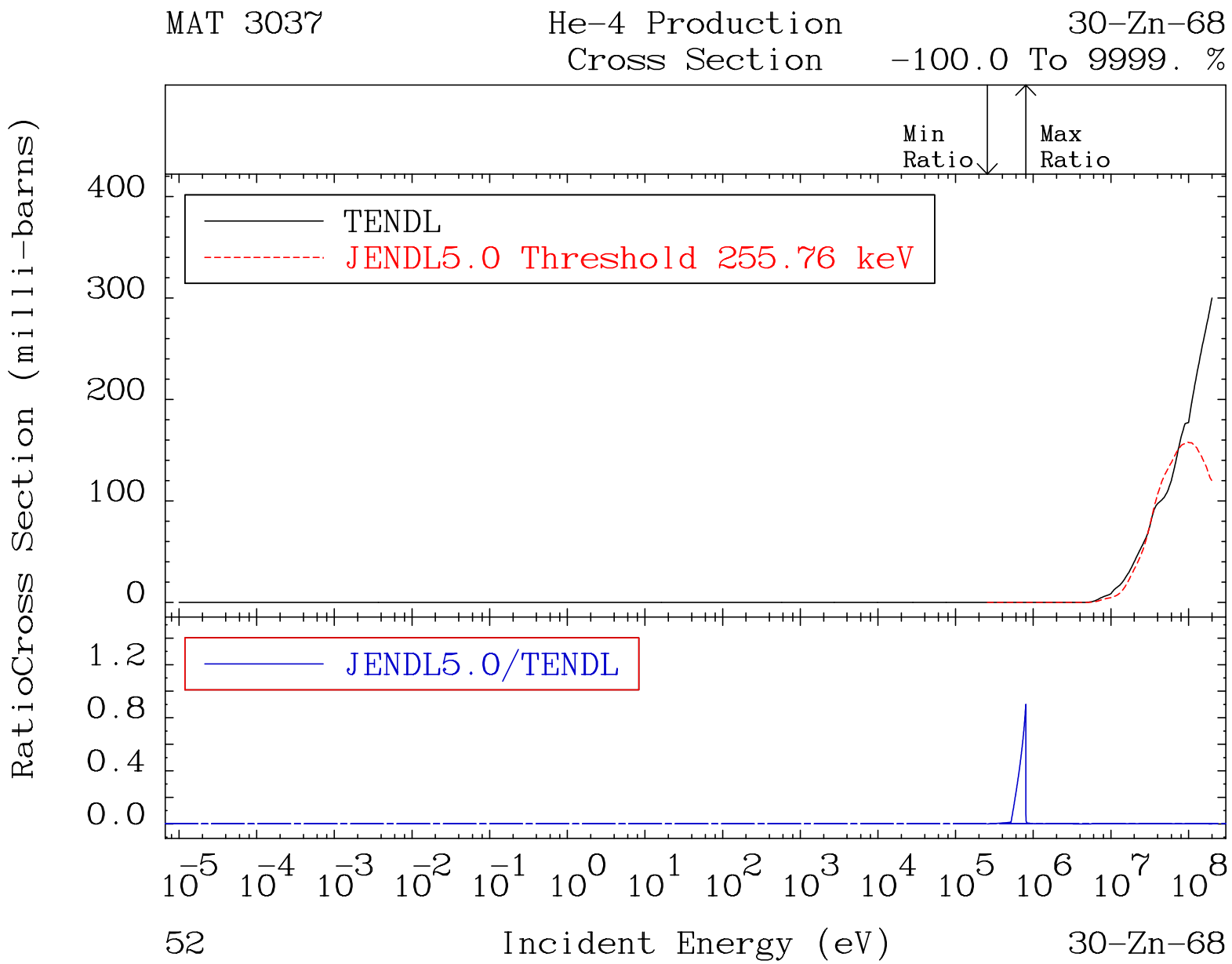

MAT 3037
(n,2p)
30-Zn-68
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.961 MeV
JENDL5.0 Threshold 12.961 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
30-Zn-68

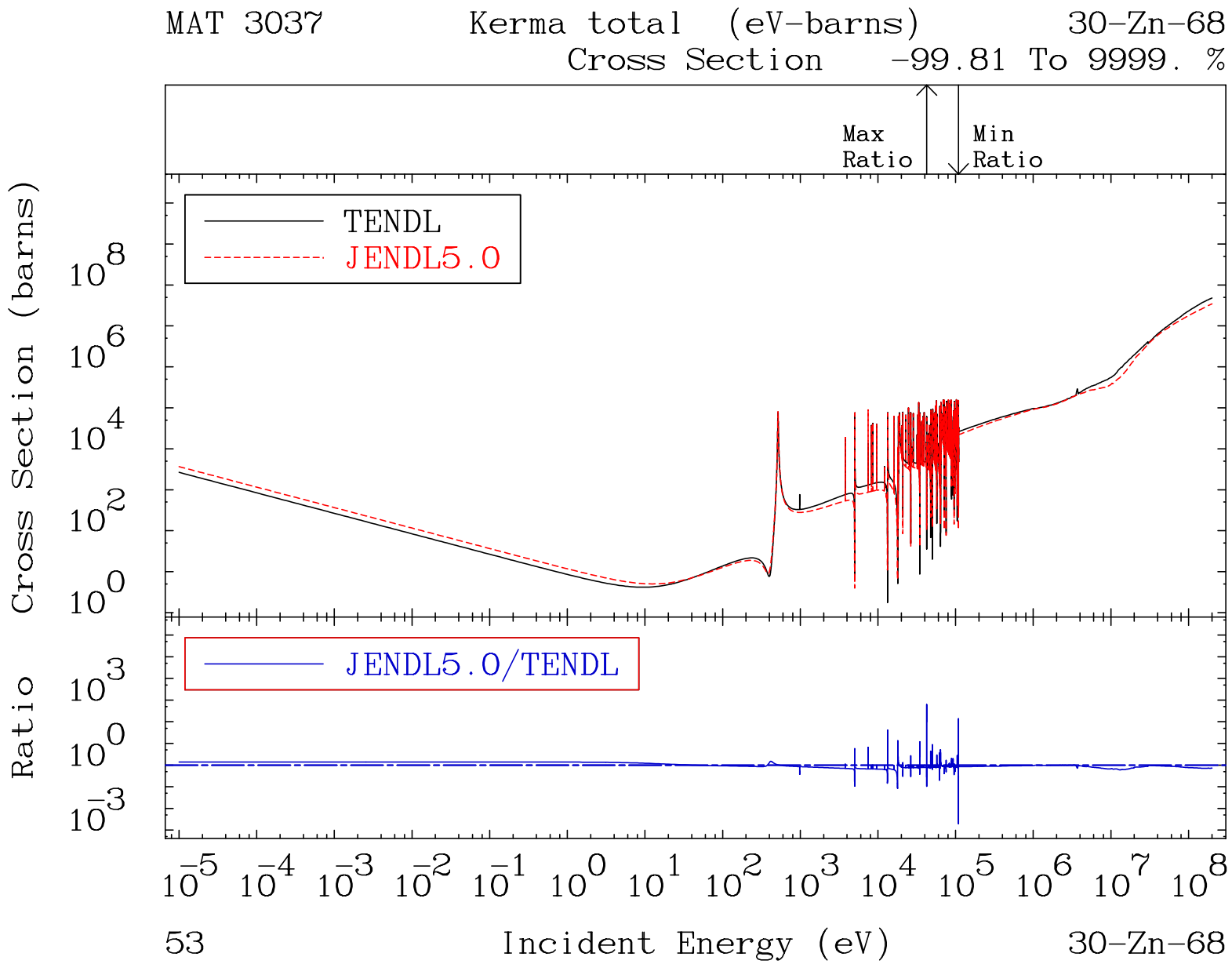

MAT 3037
Hydrogen Production
30-Zn-68
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.7121 MeV
JENDL5.0 Threshold 3.7121 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
10^4
10^0
10^-4
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
48
Incident Energy (eV)
30-Zn-68

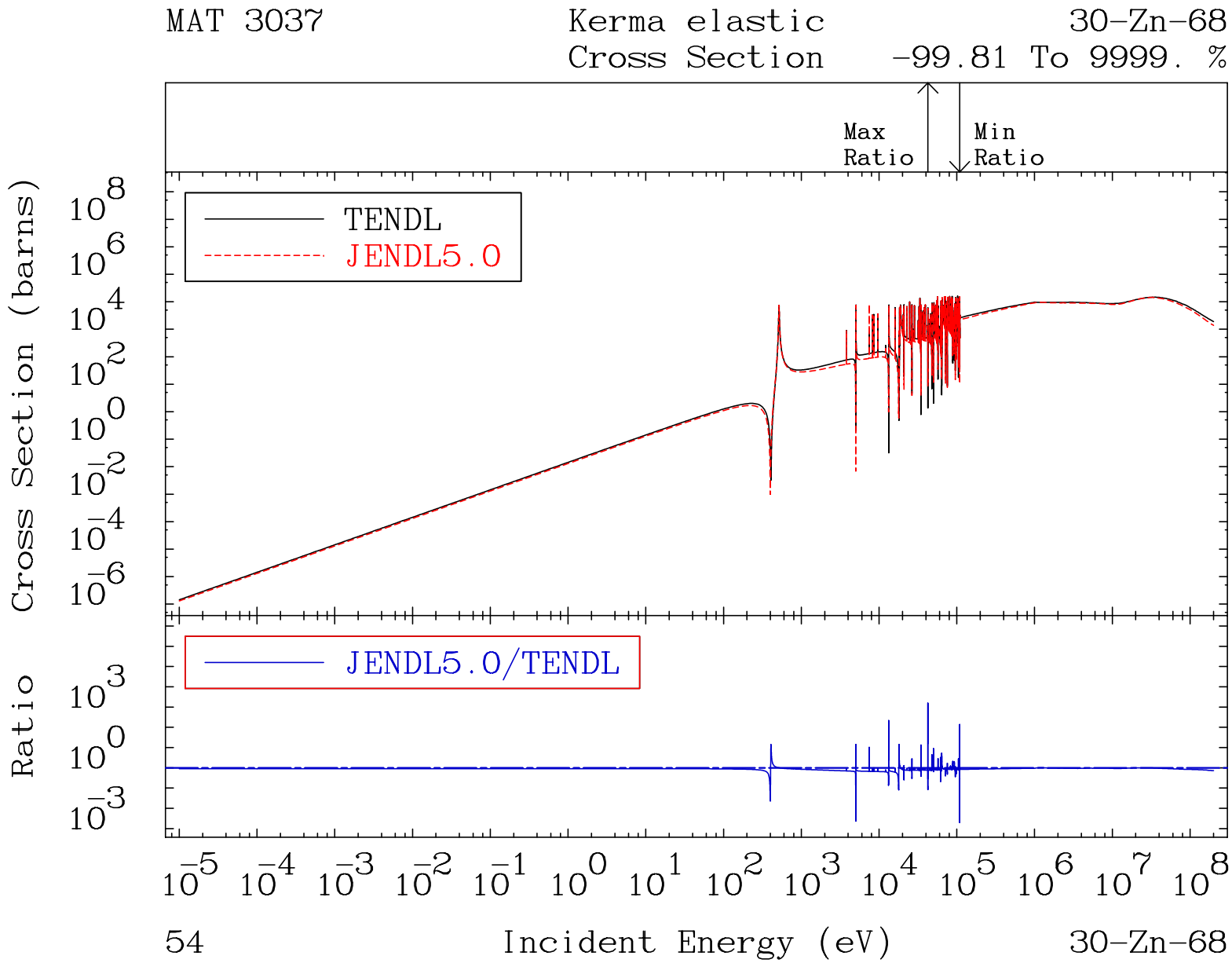

MAT 3037
Deuterium Production
30-Zn-68
Cross Section
-34.63 To 983.6 %
Max Ratio
Min Ratio
TENDL Threshold 7.8671 MeV
JENDL5.0 Threshold 7.8671 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
4
10^1
4
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
49
Incident Energy (eV)
30-Zn-68

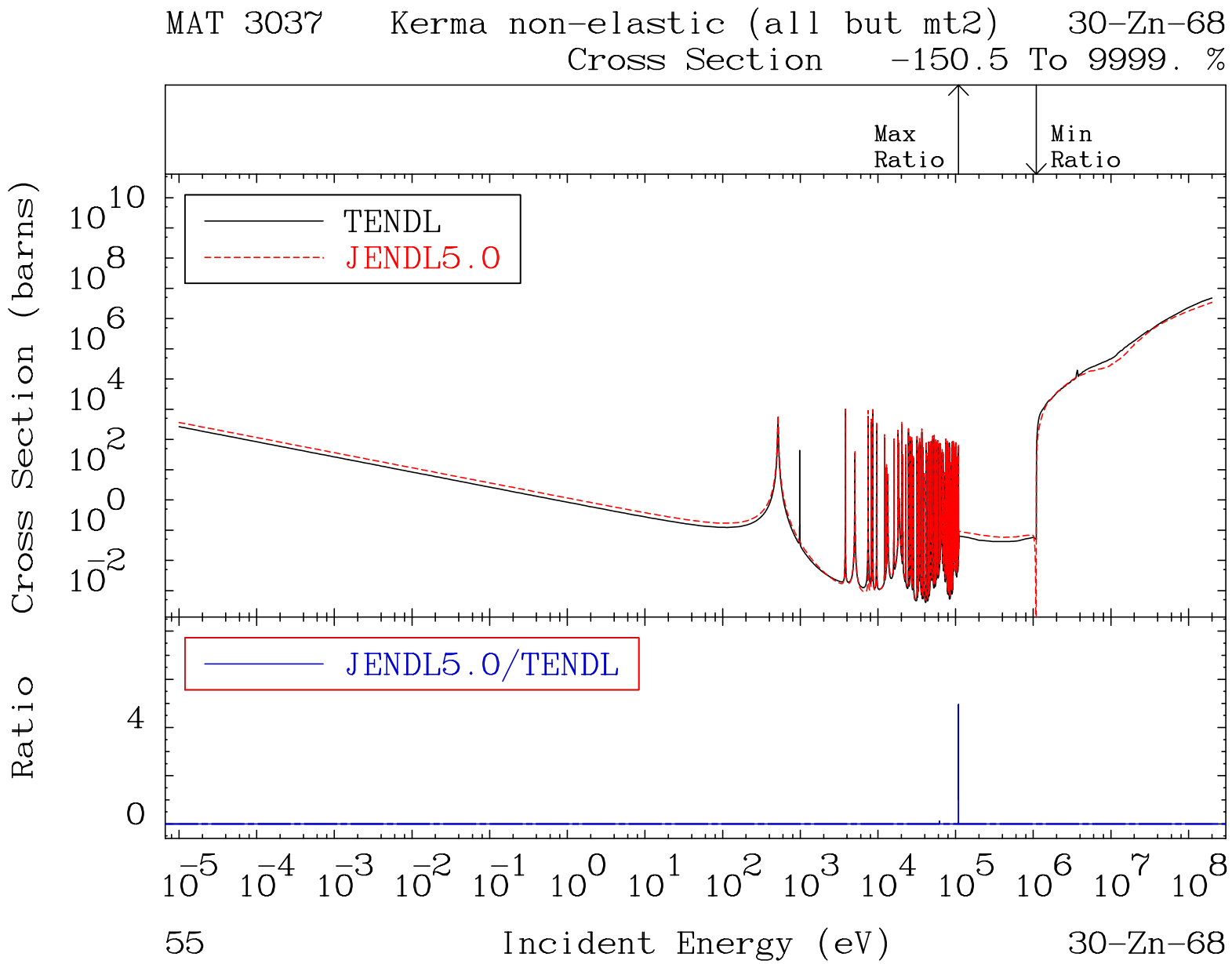

MAT 3037
Tritium Production
Cross Section
30-Zn-68
-67.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.785 MeV
JENDL5.0 Threshold 10.785 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
30-Zn-68

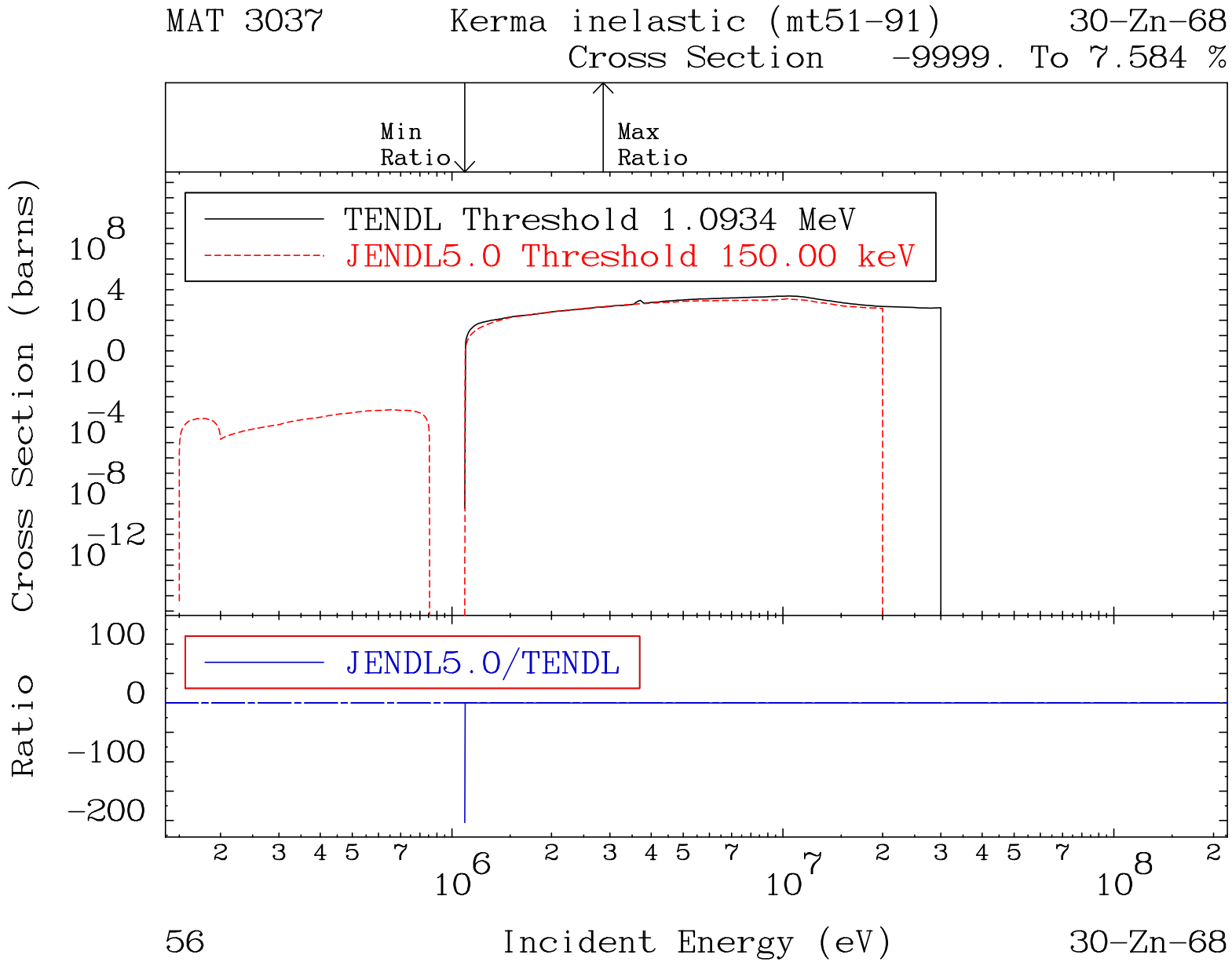

MAT 3037
He-3 Production
Cross Section
30-Zn-68
-97.93 To 6422. %
Max Ratio
Min Ratio
TENDL Threshold 11.022 MeV
JENDL5.0 Threshold 11.022 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
30-Zn-68

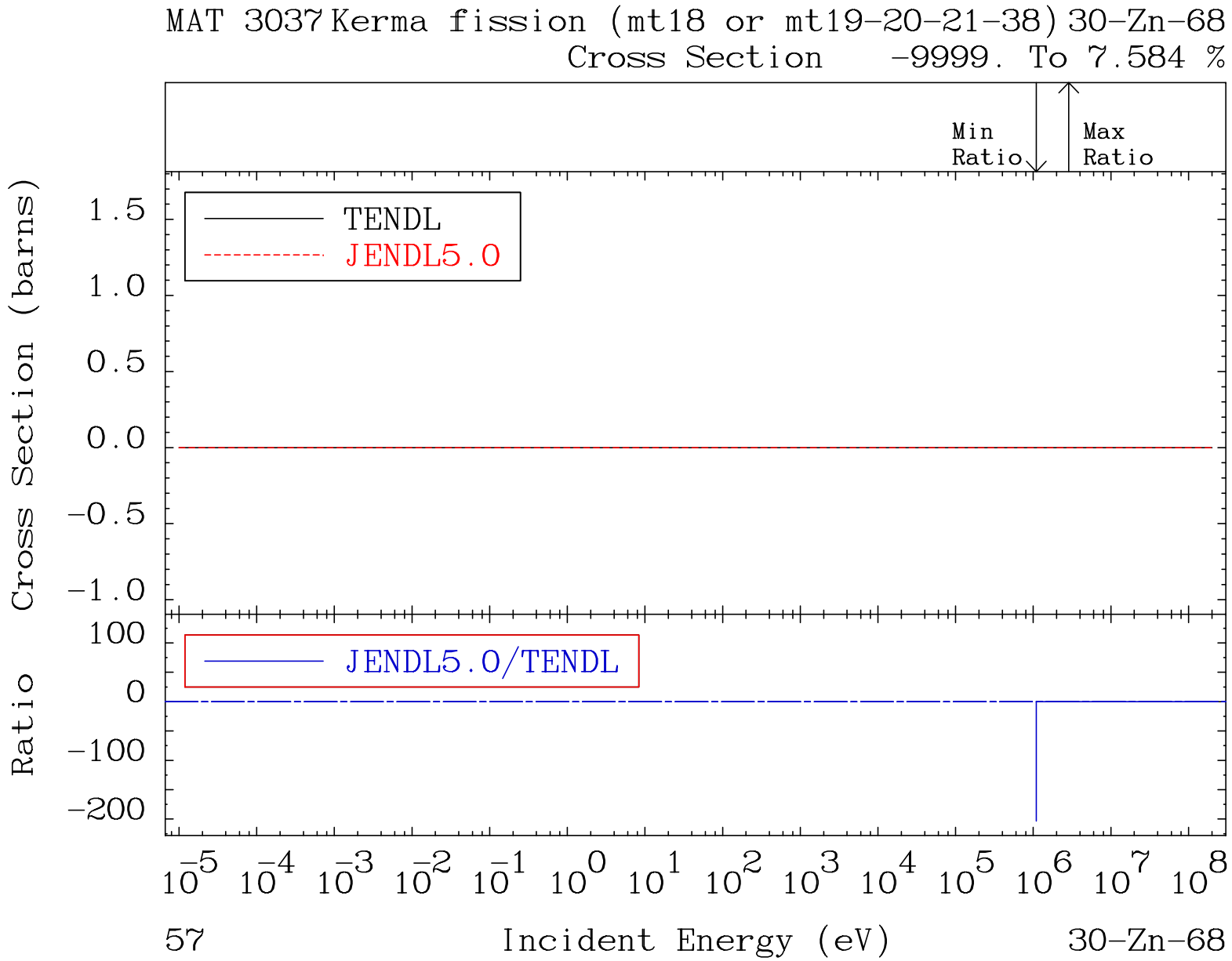

MAT 3037
He-4 Production
Cross Section
30-Zn-68
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 255.76 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
52
30-Zn-68

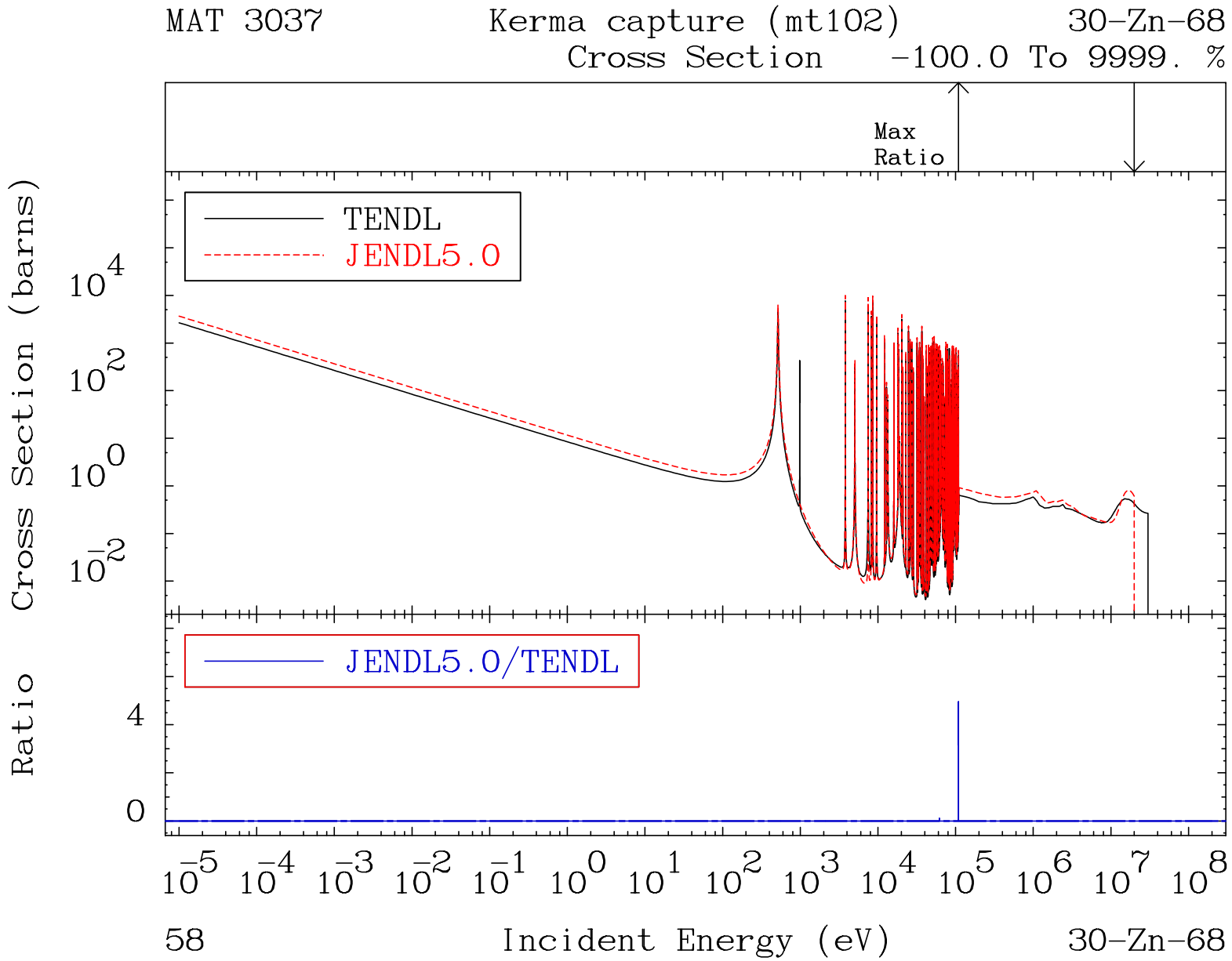

MAT 3037
Kerma total (eV-barns)
30-Zn-68
Cross Section -99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
30-Zn-68

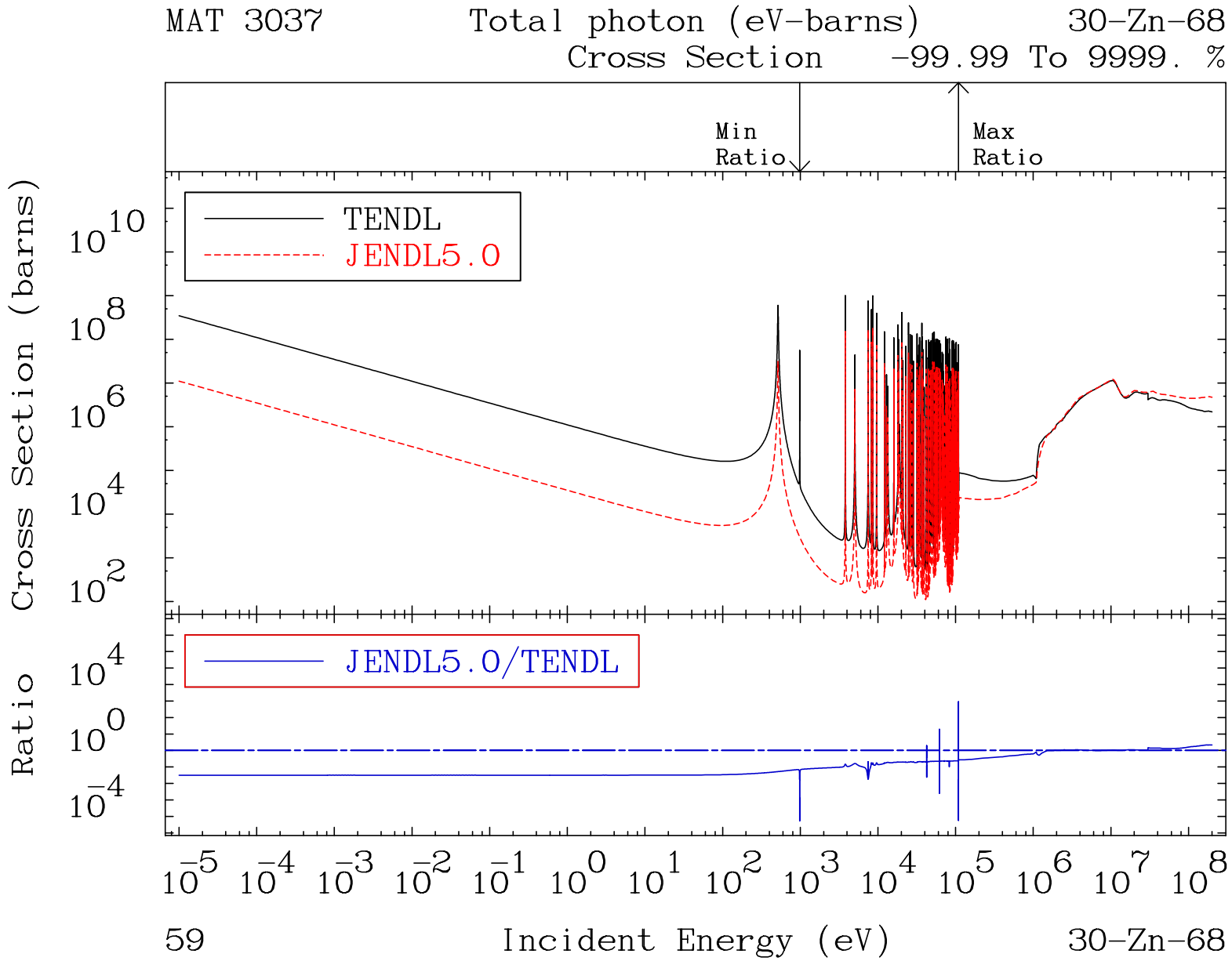

MAT 3037
Kerma elastic
Cross Section
30-Zn-68
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
30-Zn-68

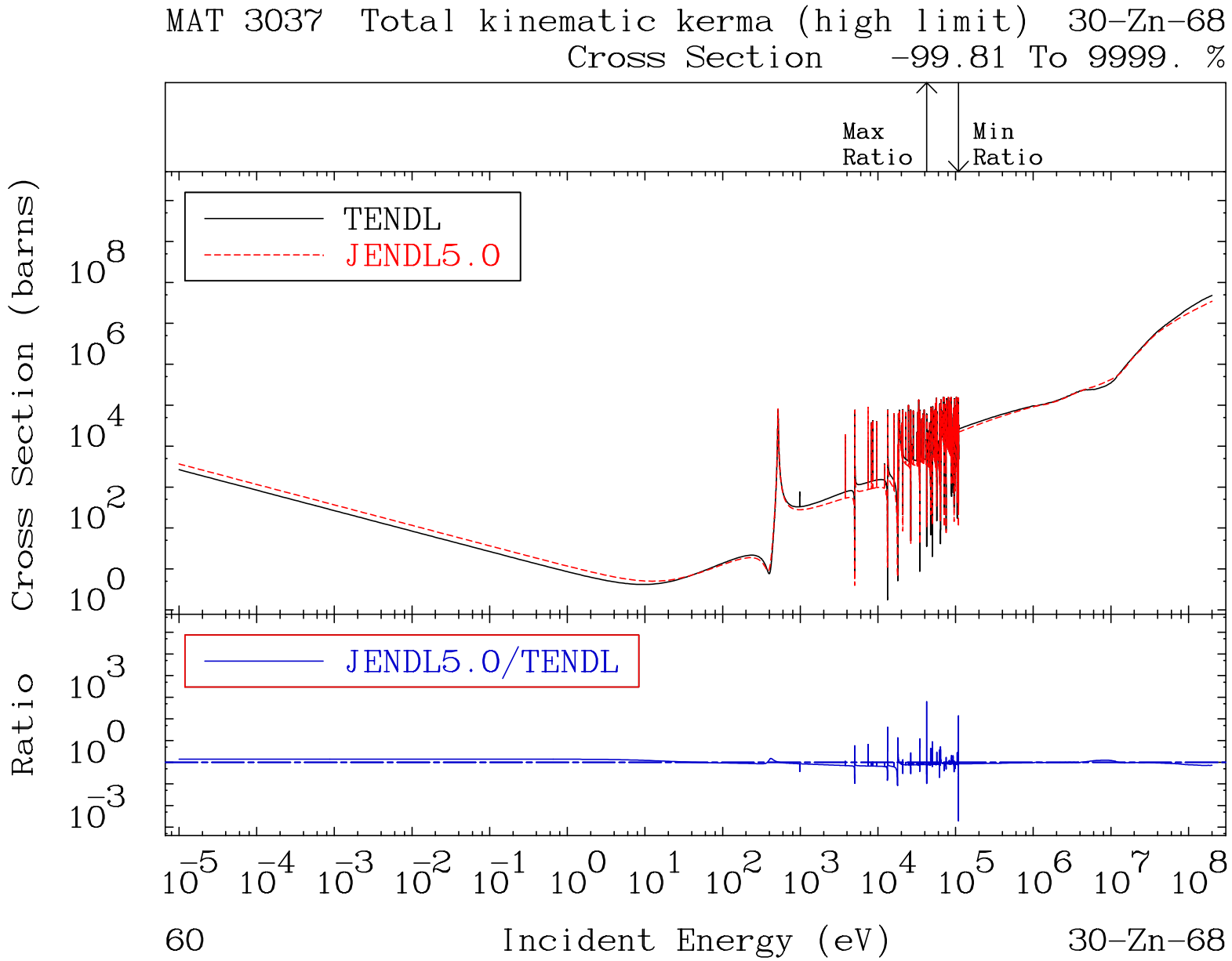

MAT 3037 Kerma non-elastic (all but mt2) 30-Zn-68
Cross Section -150.5 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
30-Zn-68

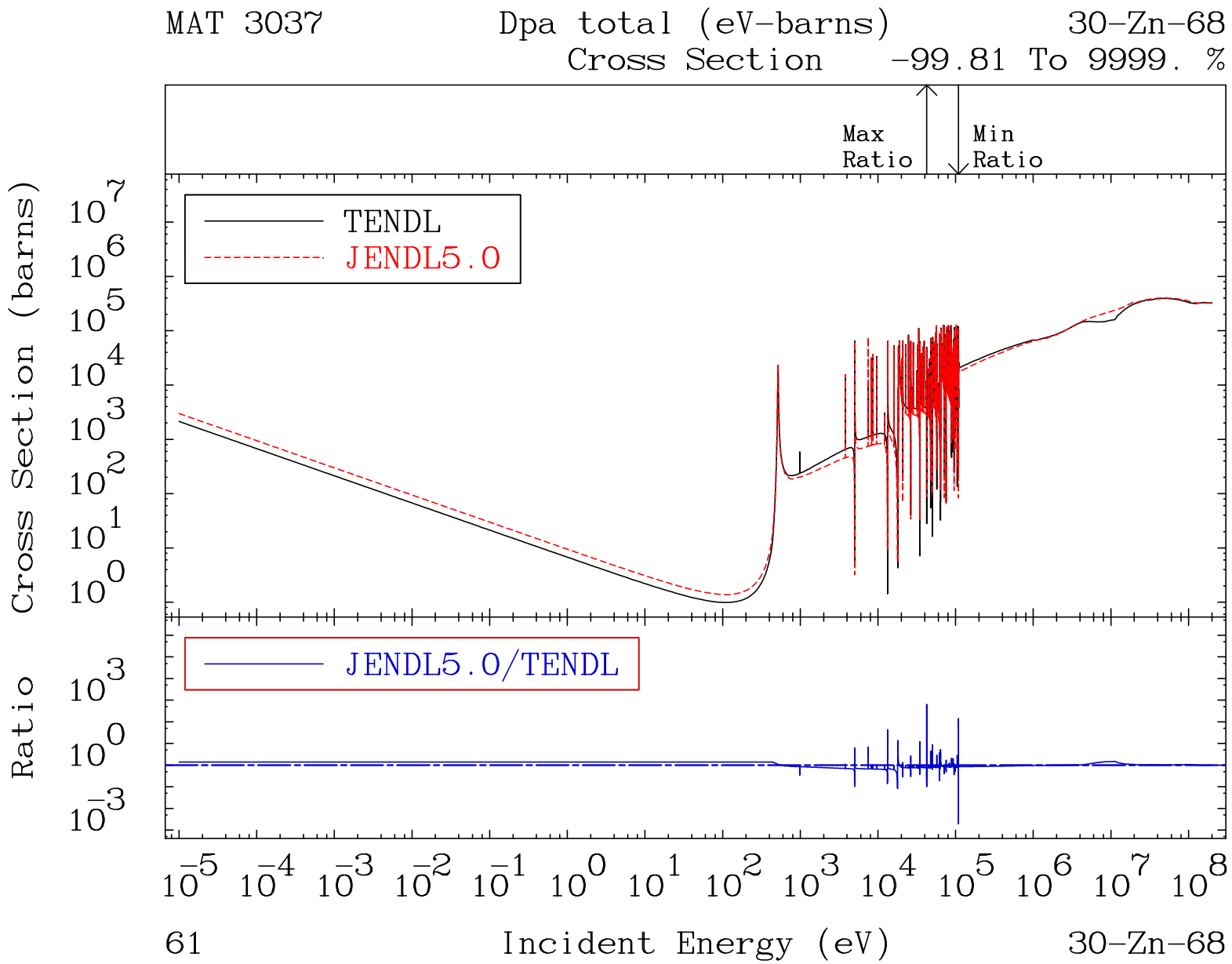

MAT 3037
Kerma inelastic (mt51-91)
30-Zn-68
Cross Section -9999. To 7.584 %
Min Ratio
Max Ratio
TENDL Threshold 1.0934 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
30-Zn-68

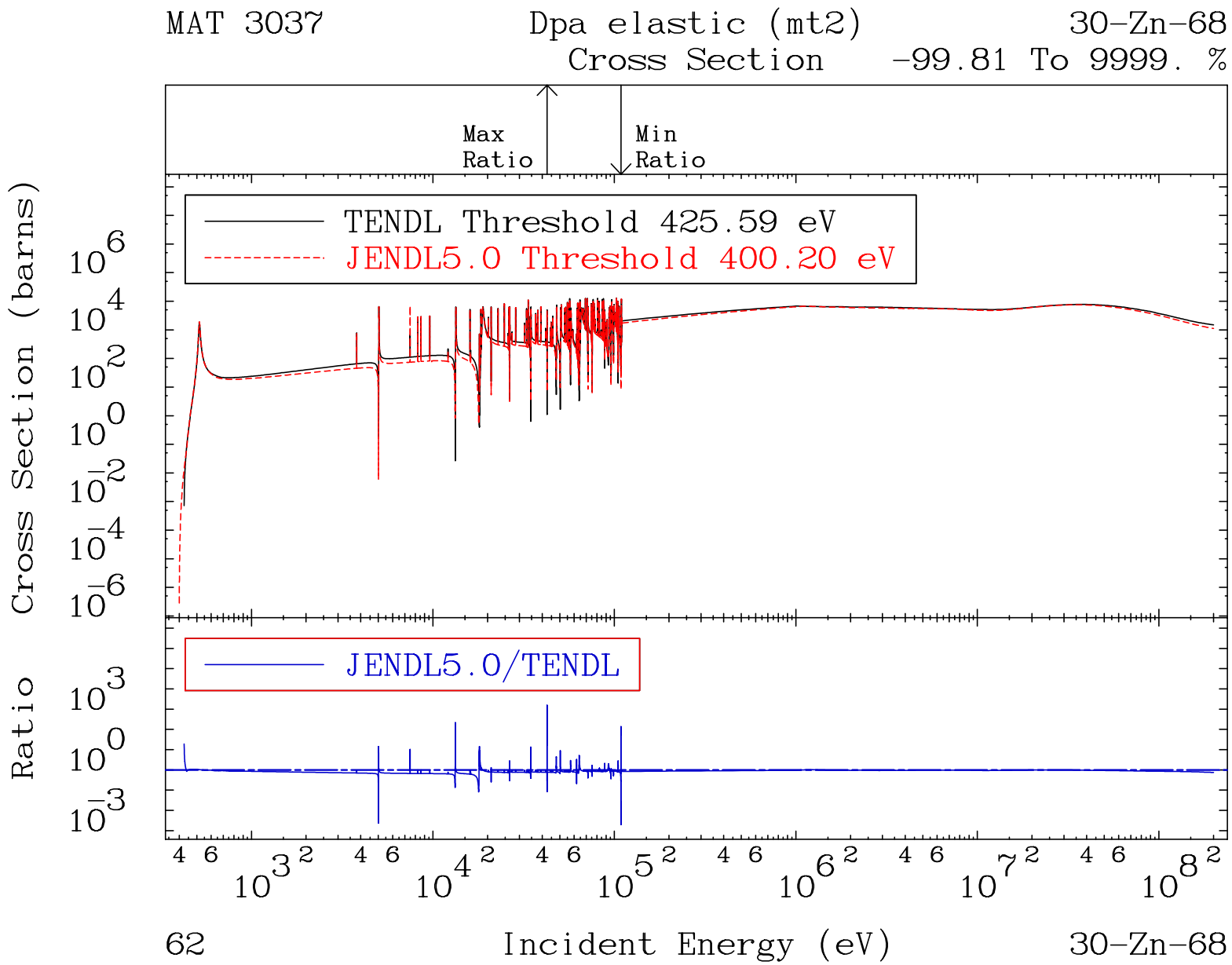

MAT 3037 Kerma fission (mt18 or mt19-20-21-38) 30-Zn-68
Cross Section -9999. To 7.584 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
100
0
-100
-200
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
57
Incident Energy (eV)
30-Zn-68

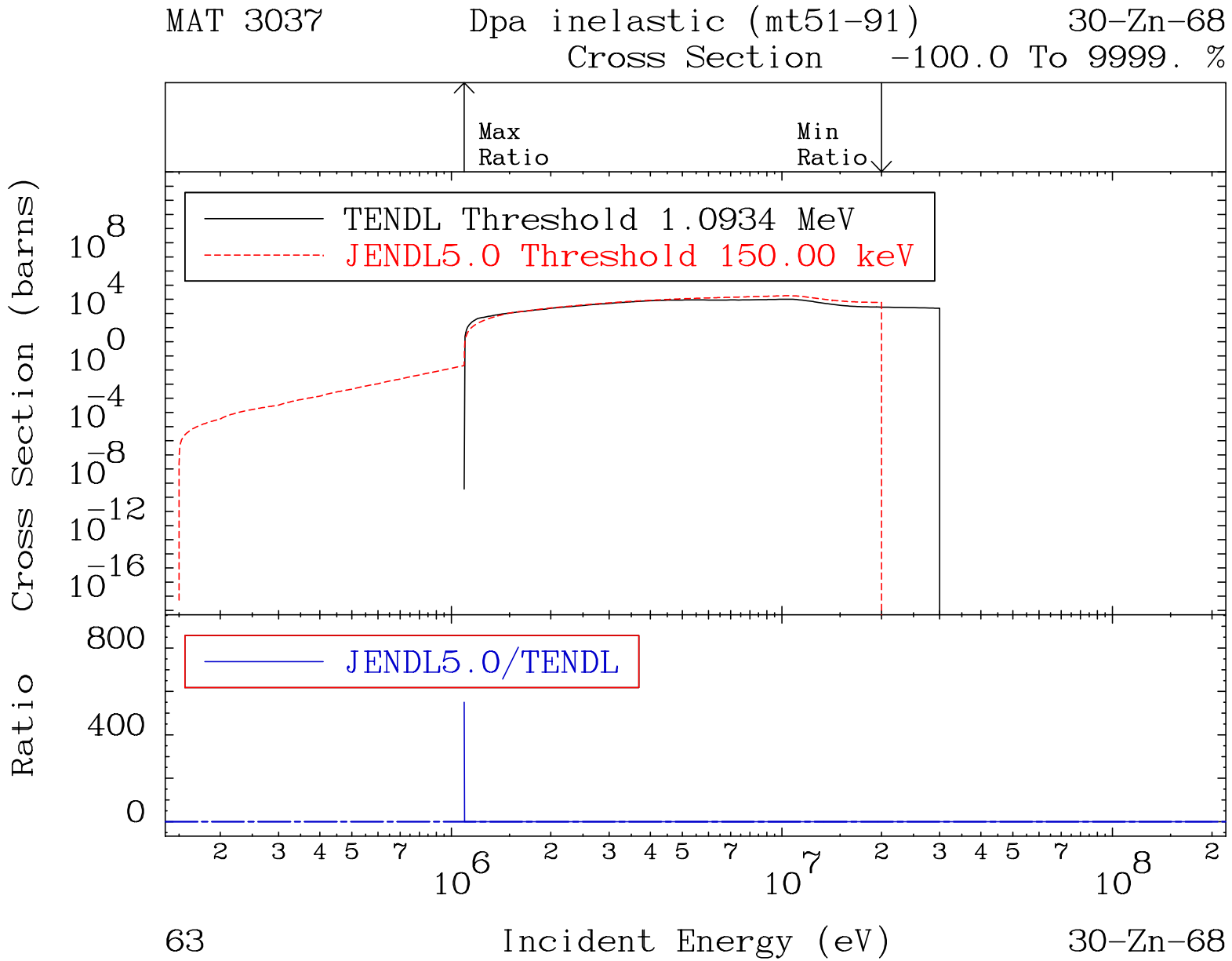

MAT 3037
Kerma capture (mt102)
30-Zn-68
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
30-Zn-68

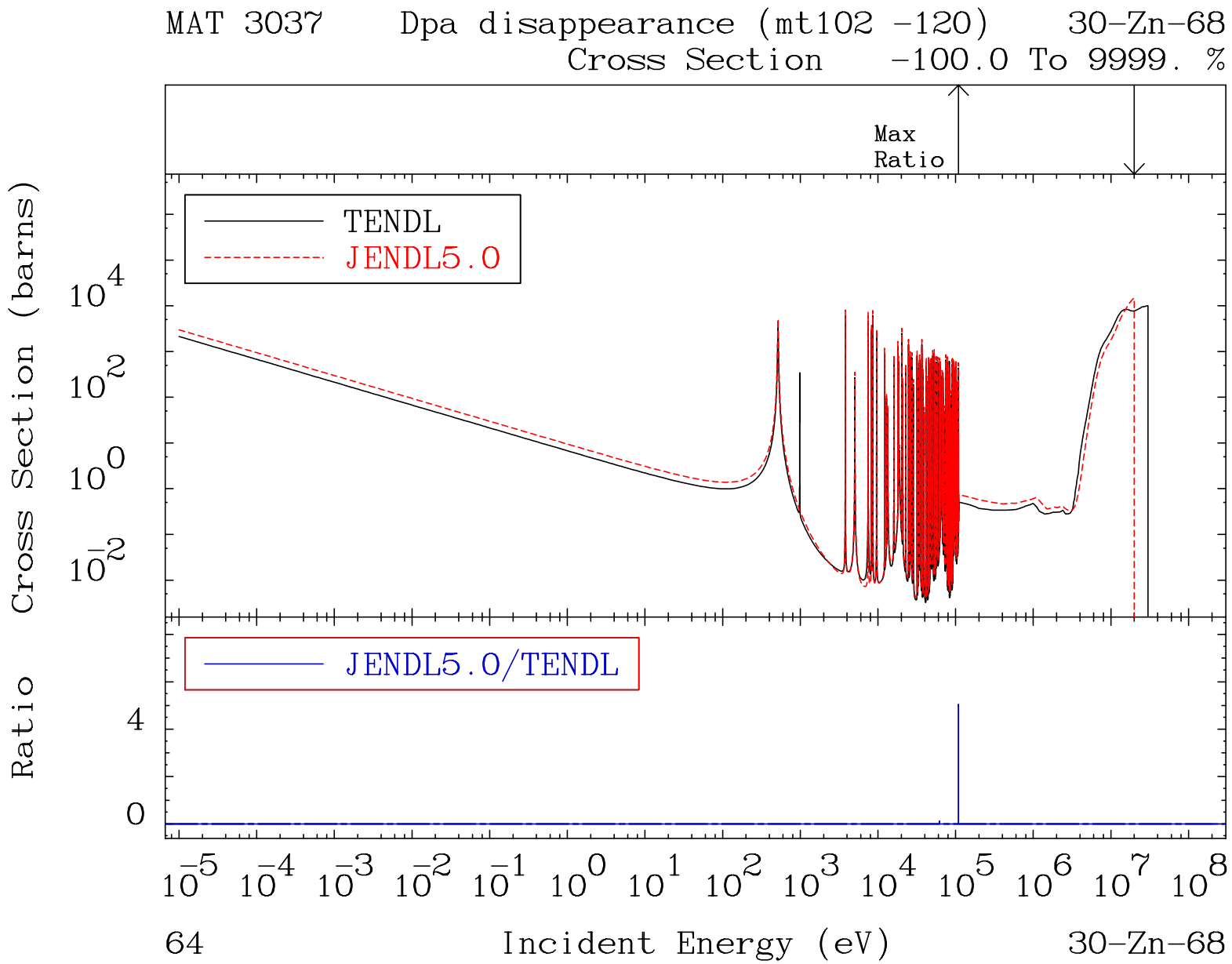

MAT 3037
Total photon (eV-barns)
30-Zn-68
Cross Section -99.99 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
30-Zn-68

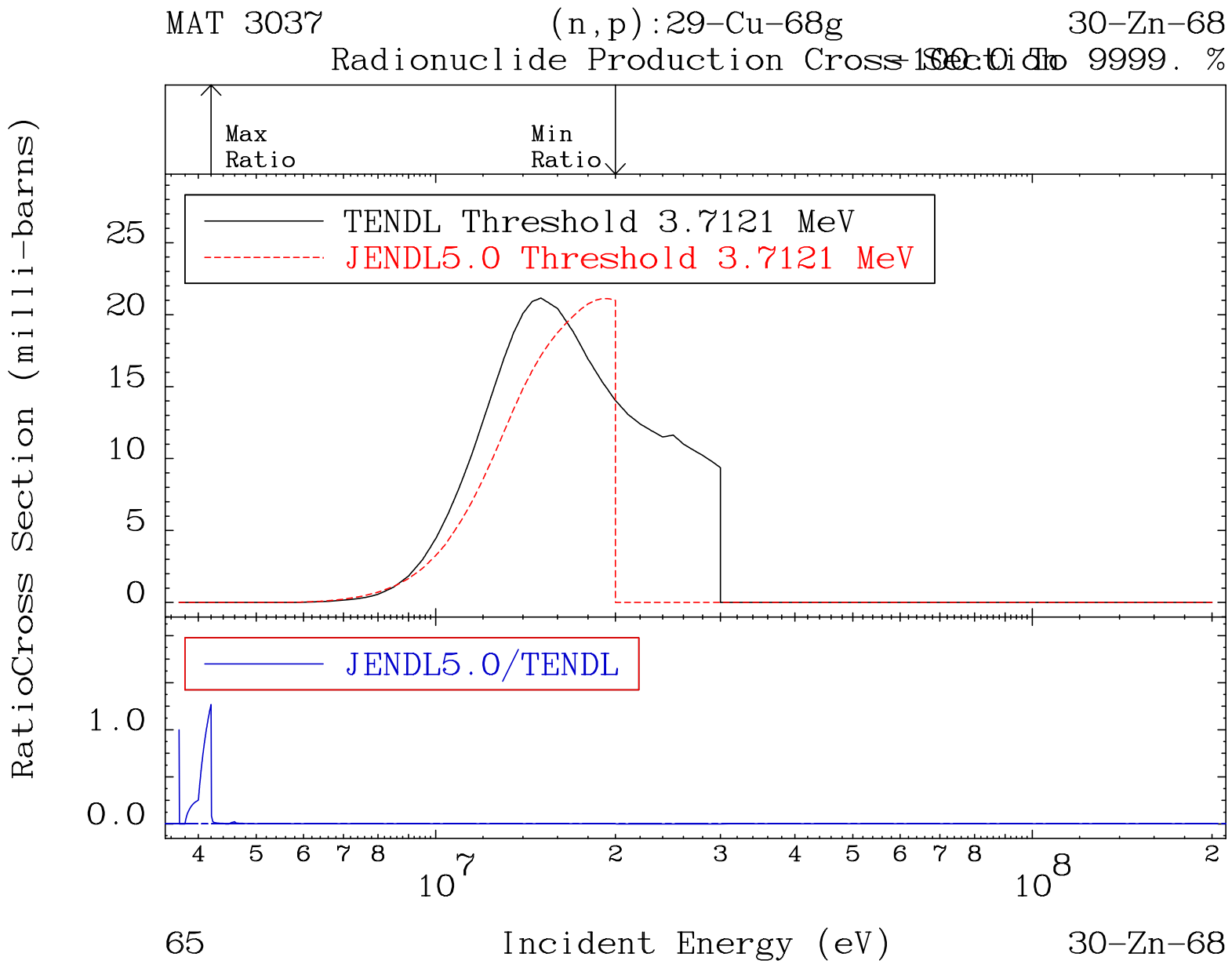

MAT 3037 Total kinematic kerma (high limit) 30-Zn-68
Cross Section -99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
30-Zn-68

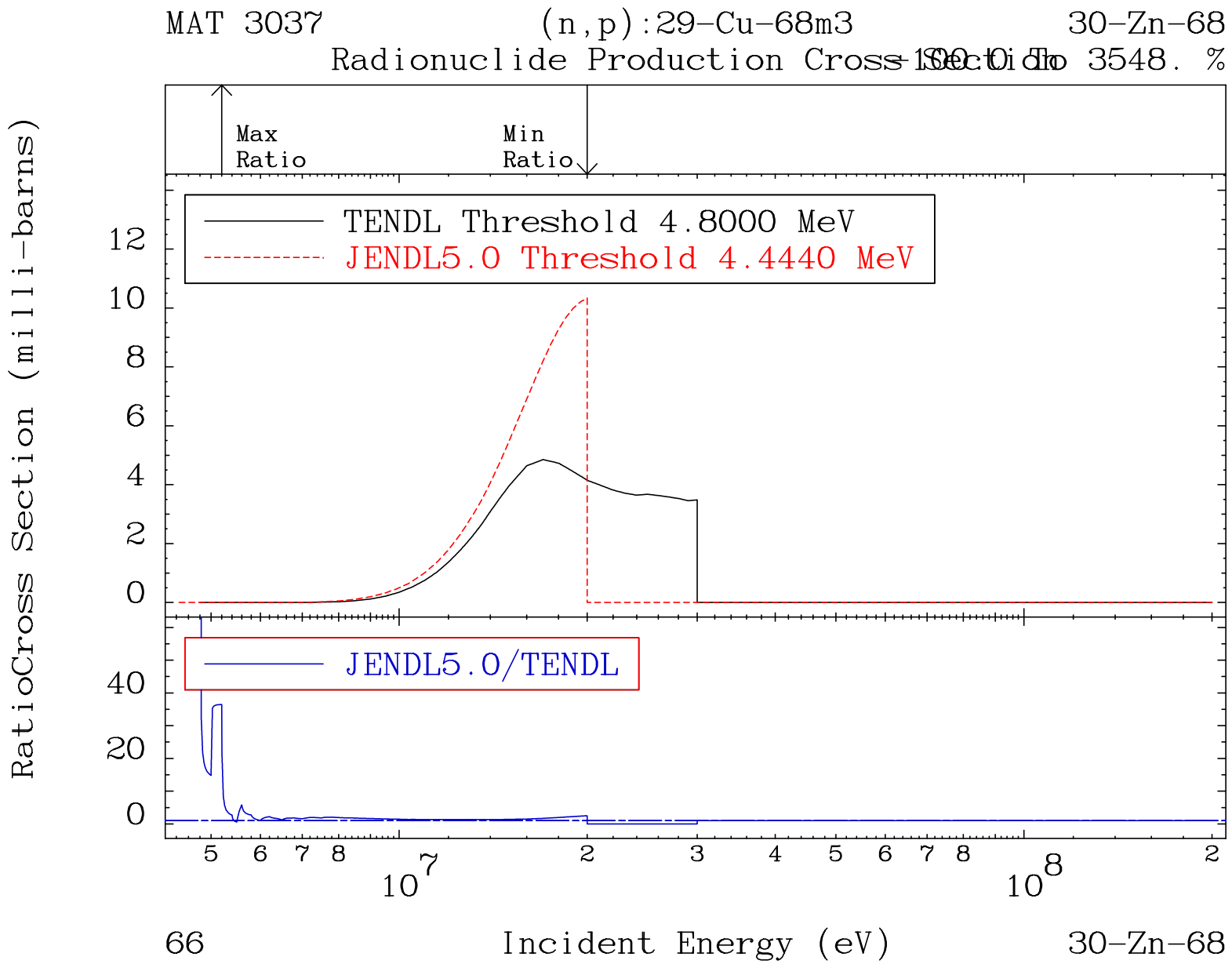

MAT 3037
Dpa total (eV-barns)
30-Zn-68
Cross Section
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
30-Zn-68

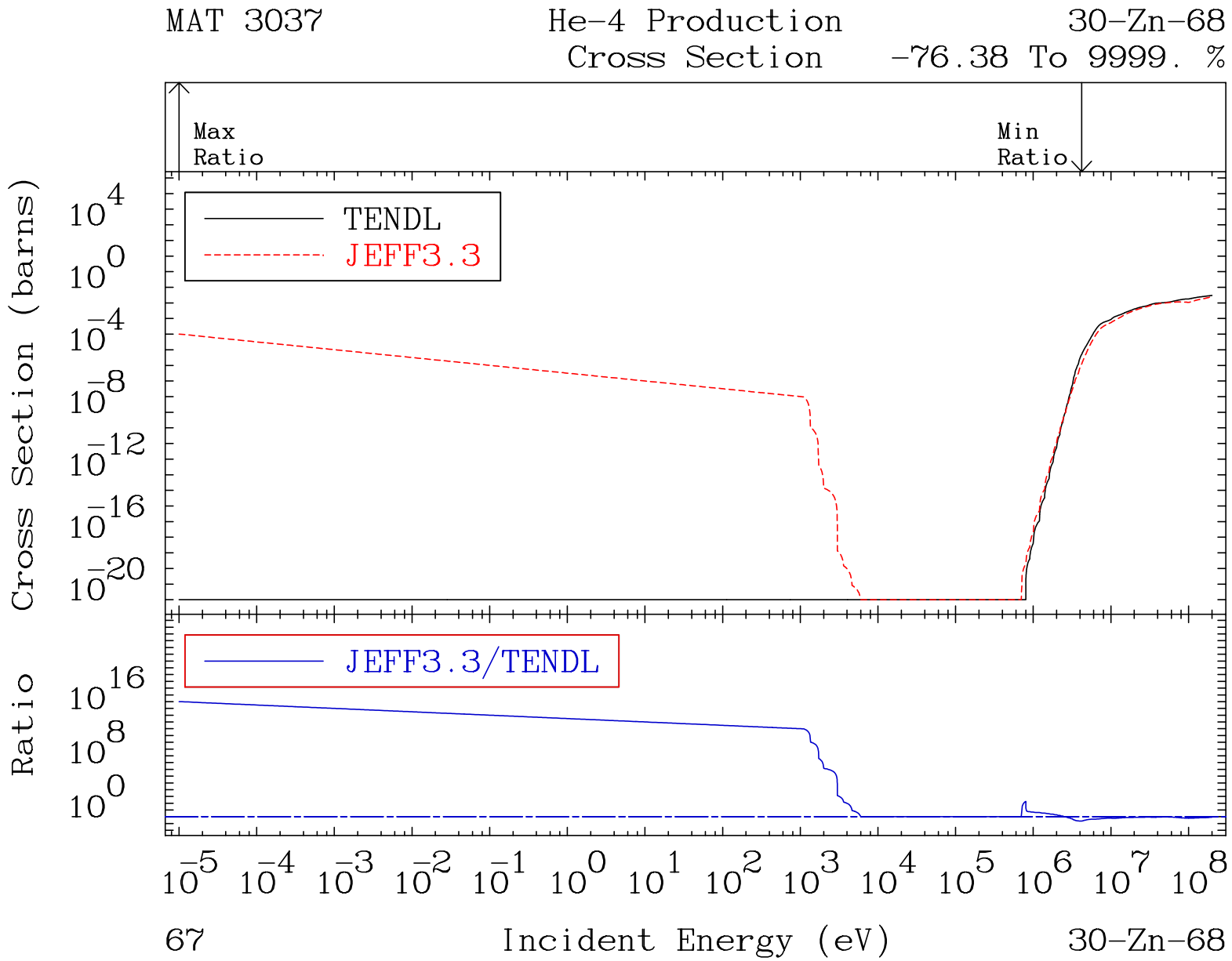

MAT 3037
Dpa elastic (mt2)
Cross Section
30-Zn-68
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 425.59 eV
JENDL5.0 Threshold 400.20 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
30-Zn-68

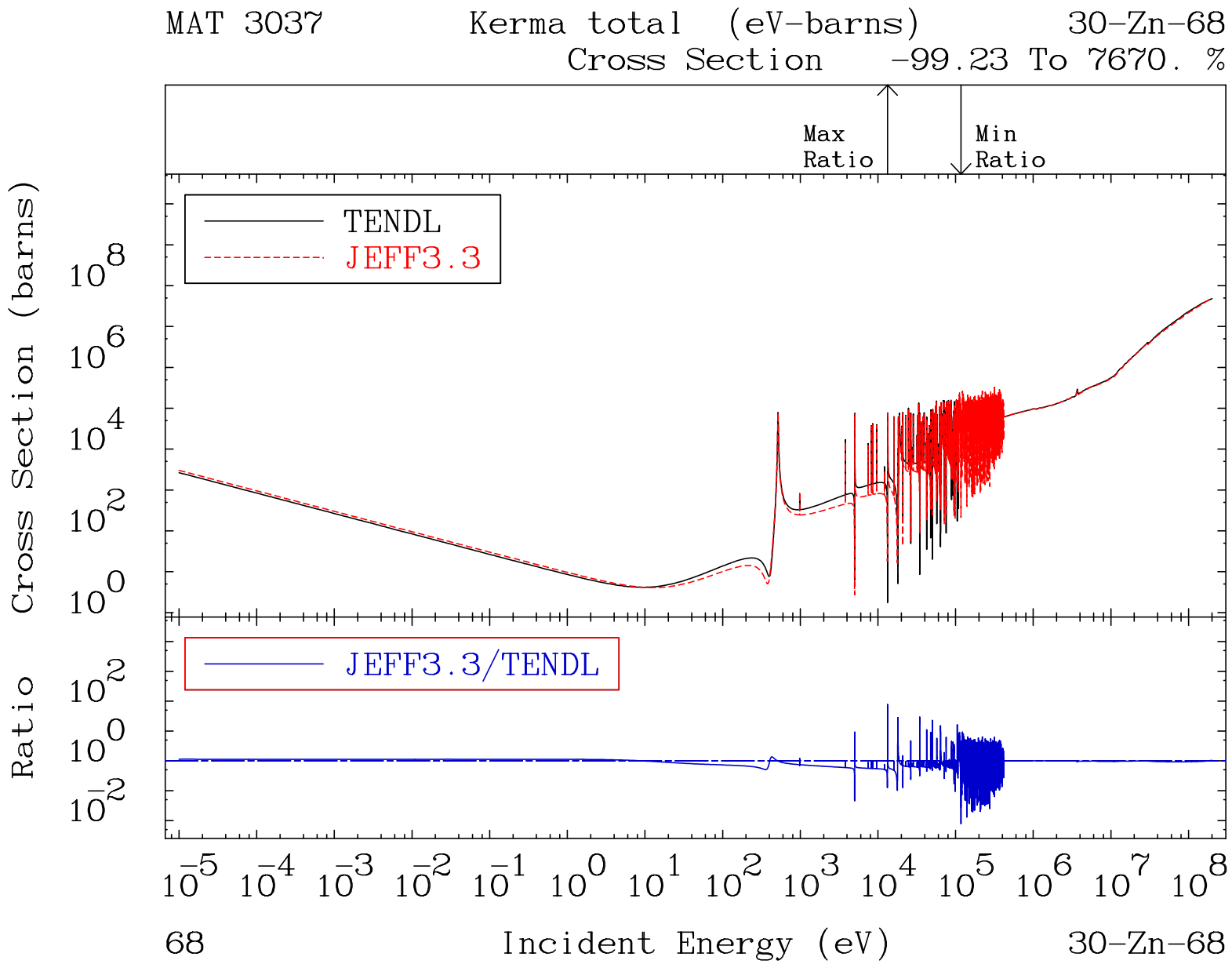

MAT 3037
Dpa inelastic (mt51-91)
30-Zn-68
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0934 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
30-Zn-68

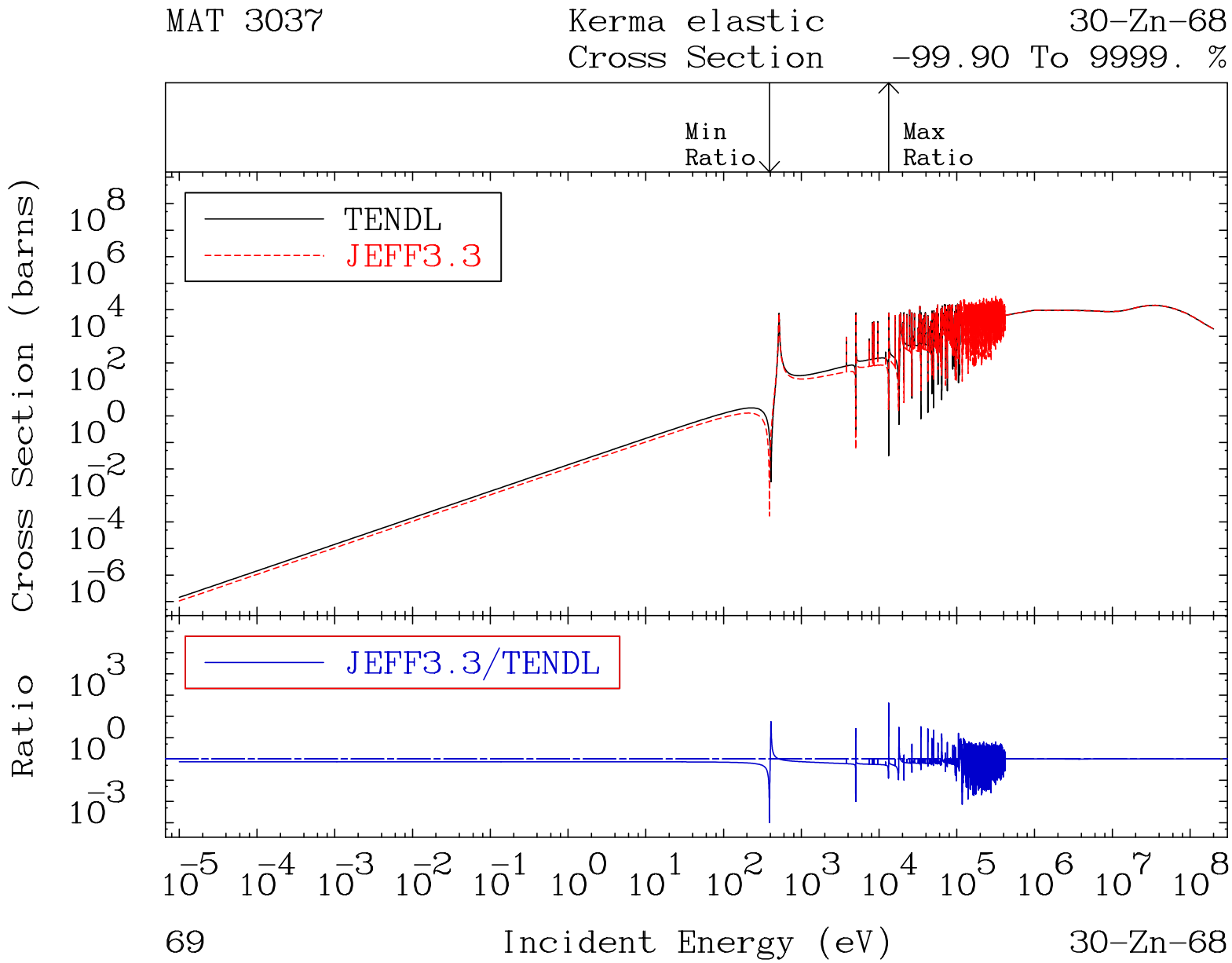

MAT 3037 Dpa disappearance (mt102 -120) 30-Zn-68
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
64
30-Zn-68

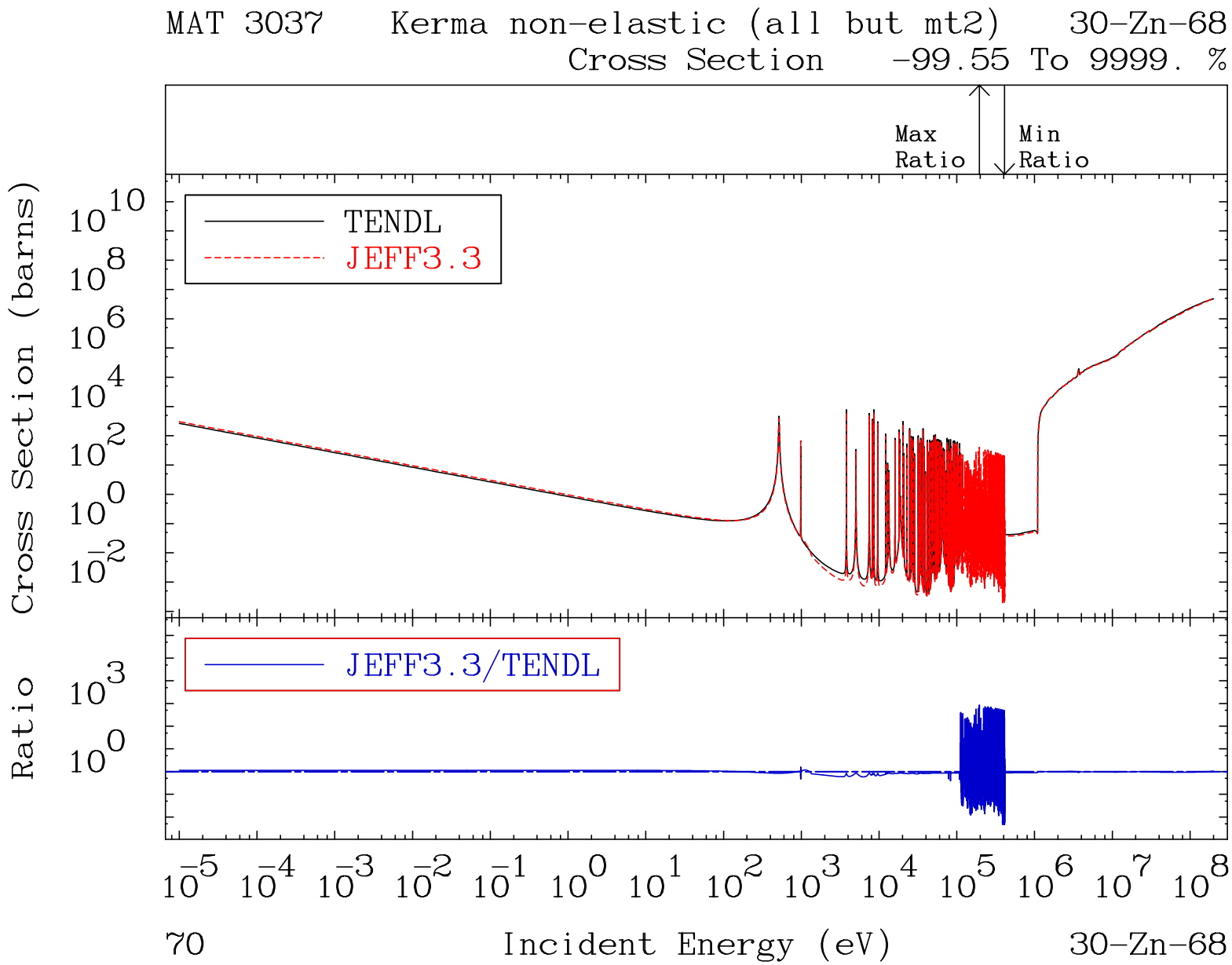

MAT 3037
(n,p):29-Cu-68g
30-Zn-68
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.7121 MeV
JENDL5.0 Threshold 3.7121 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
65
Incident Energy (eV)
30-Zn-68

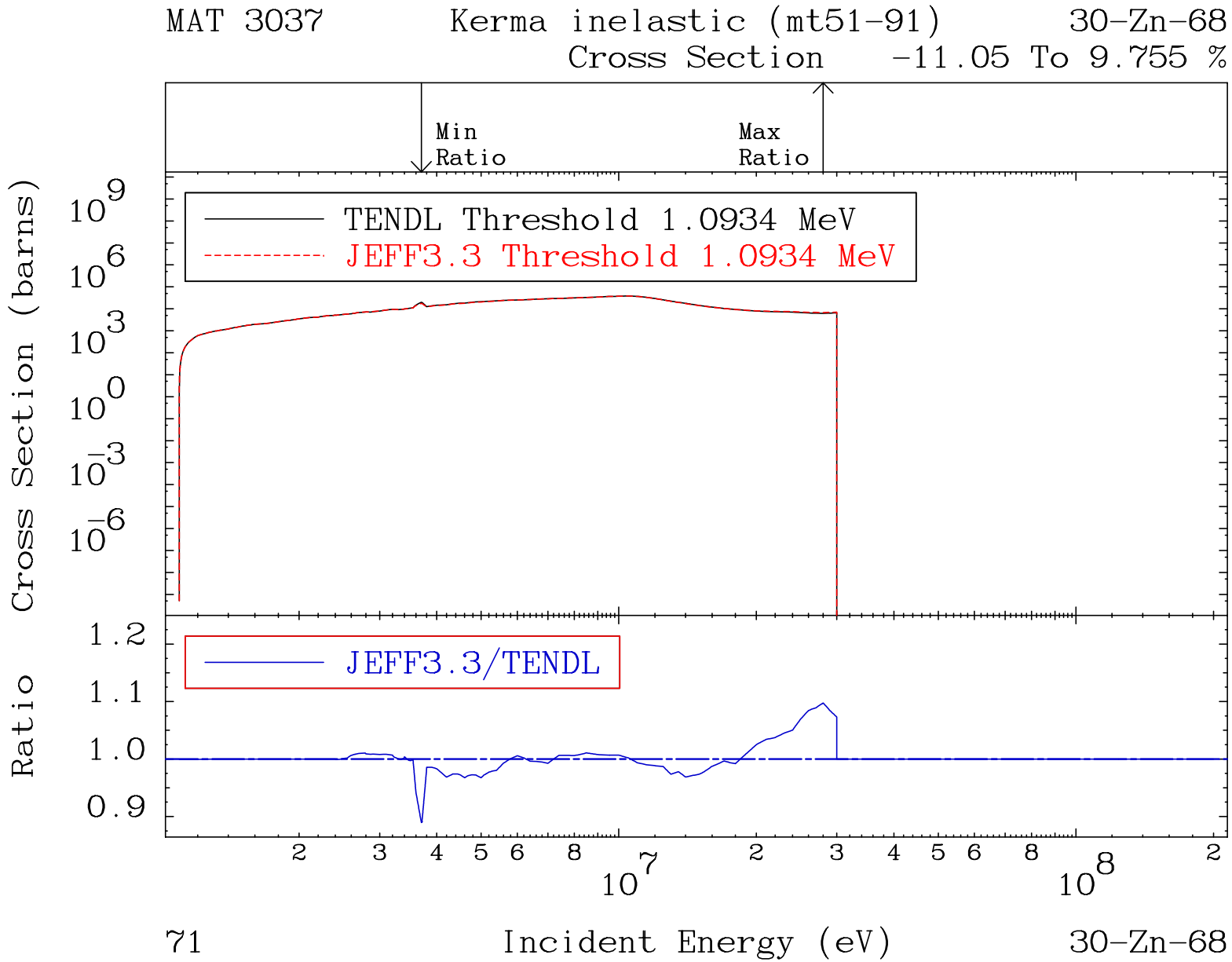

MAT 3037
(n,p):29-Cu-68m3
30-Zn-68
Radionuclide Production Cross Section To 3548. %
Max Ratio
Min Ratio
TENDL Threshold 4.8000 MeV
JENDL5.0 Threshold 4.4440 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
30-Zn-68

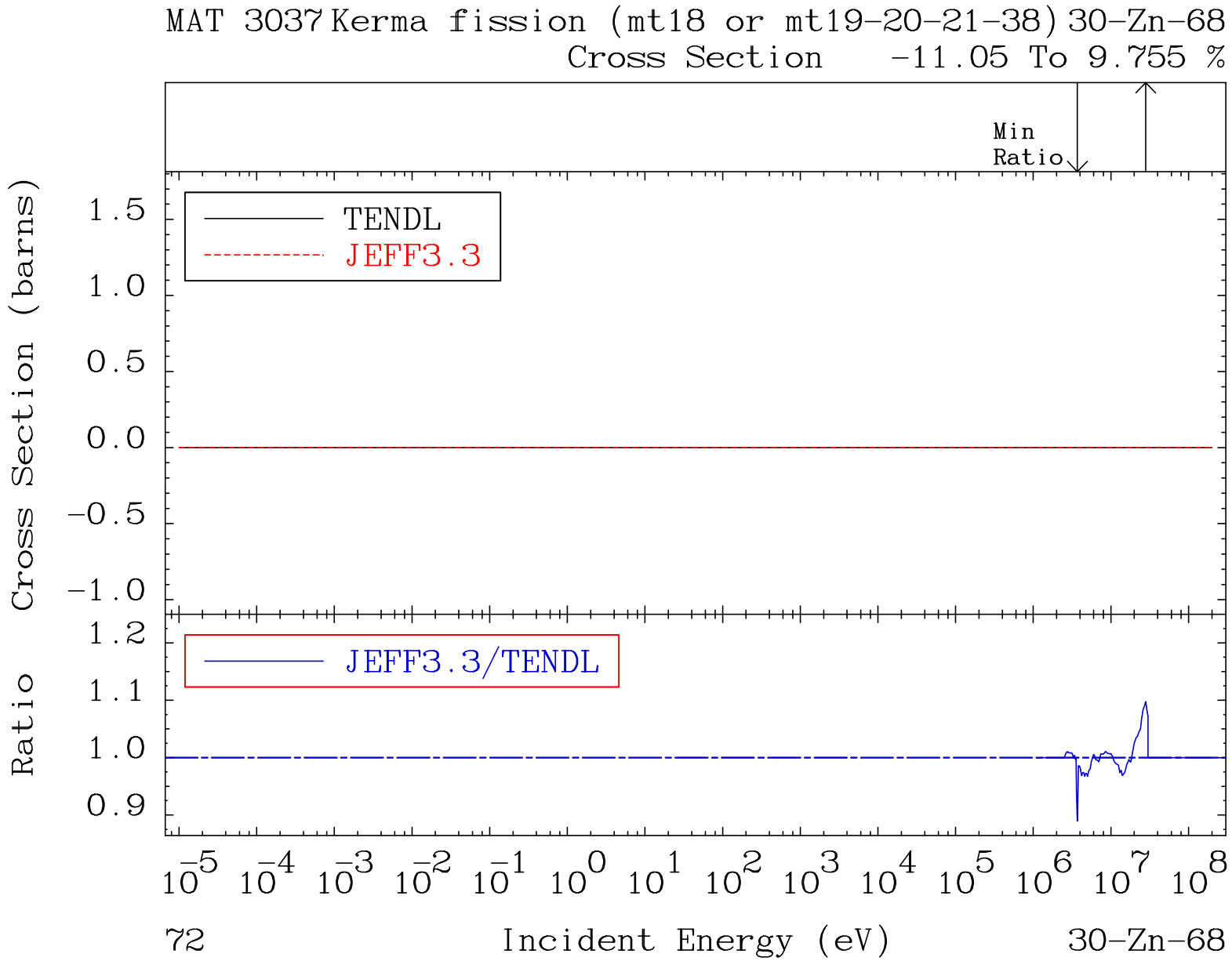

MAT 3037
He-4 Production
Cross Section
30-Zn-68
-76.38 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
30-Zn-68

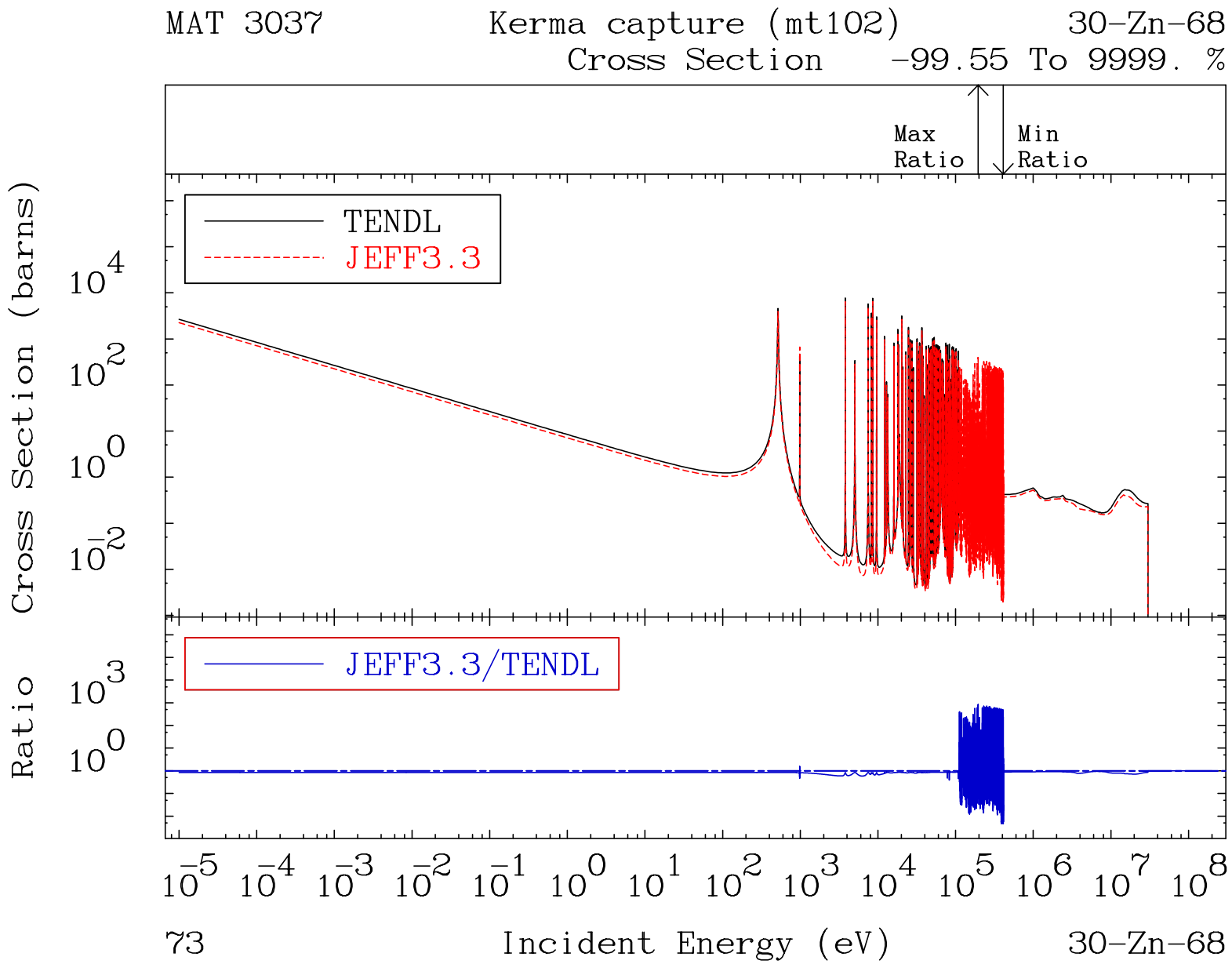

MAT 3037
Kerma total (eV-barns)
30-Zn-68
Cross Section -99.23 To 7670. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
30-Zn-68

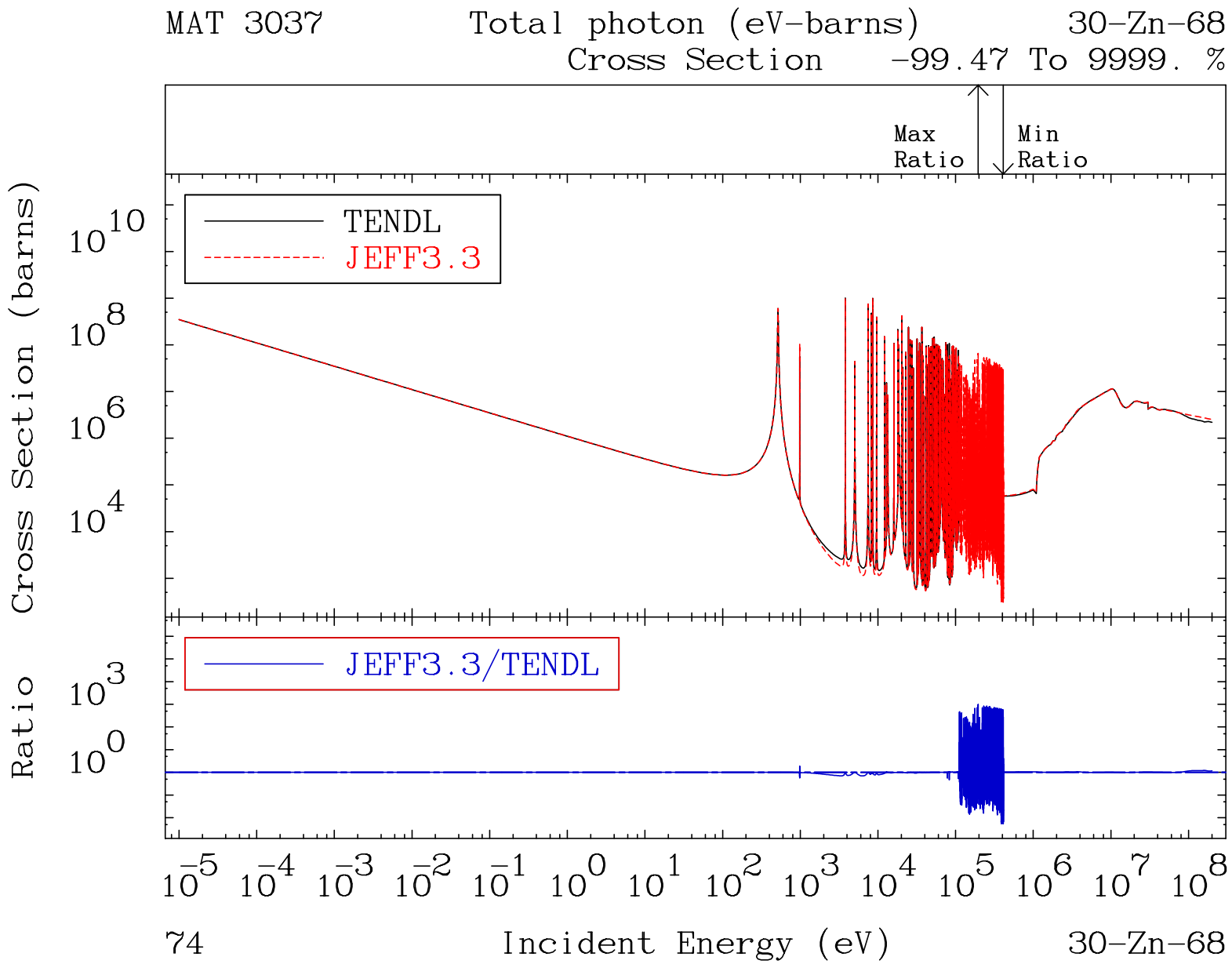

MAT 3037
Kerma elastic
Cross Section
30-Zn-68
-99.90 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
30-Zn-68

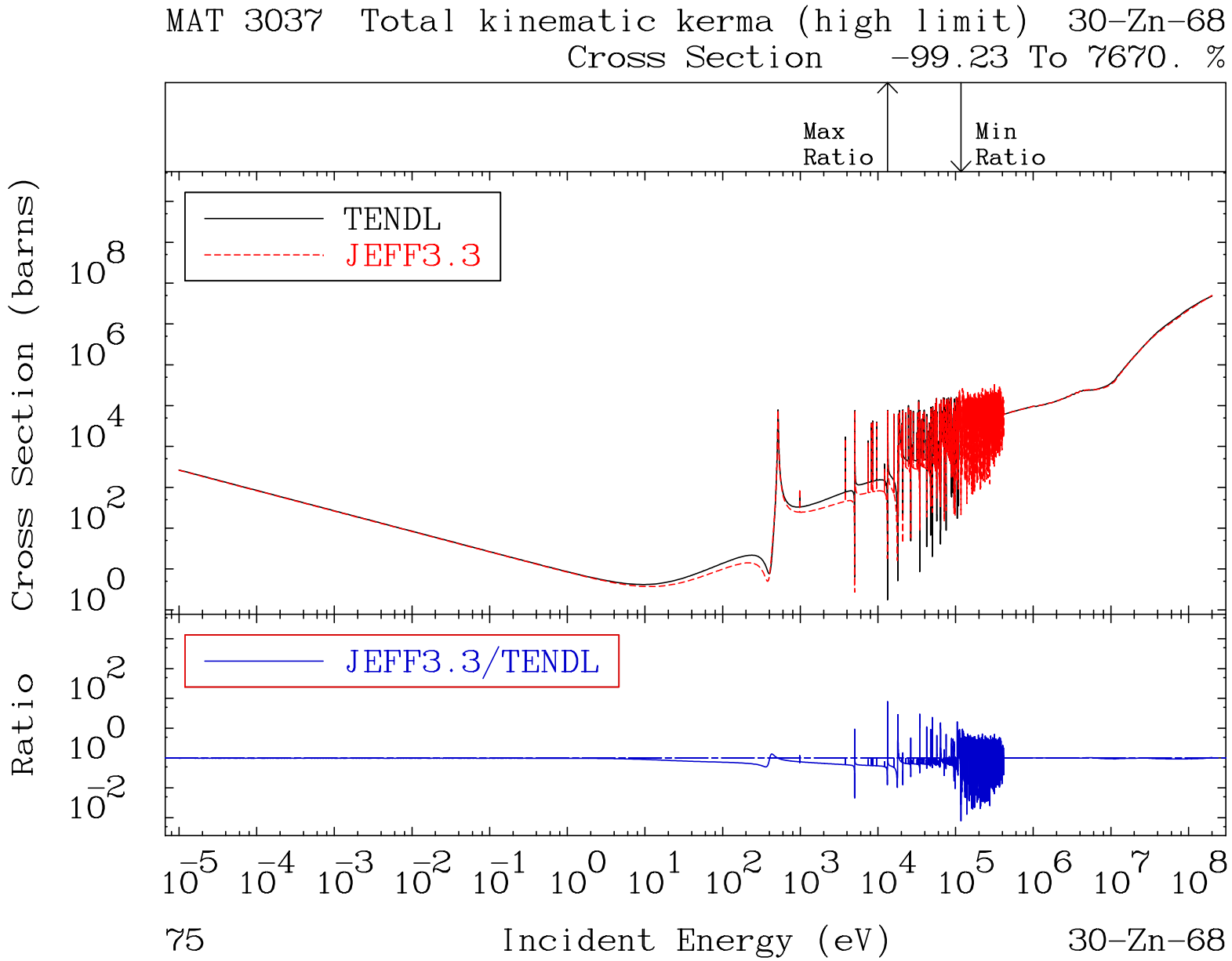

MAT 3037 Kerma non-elastic (all but mt2) 30-Zn-68
Cross Section -99.55 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
30-Zn-68

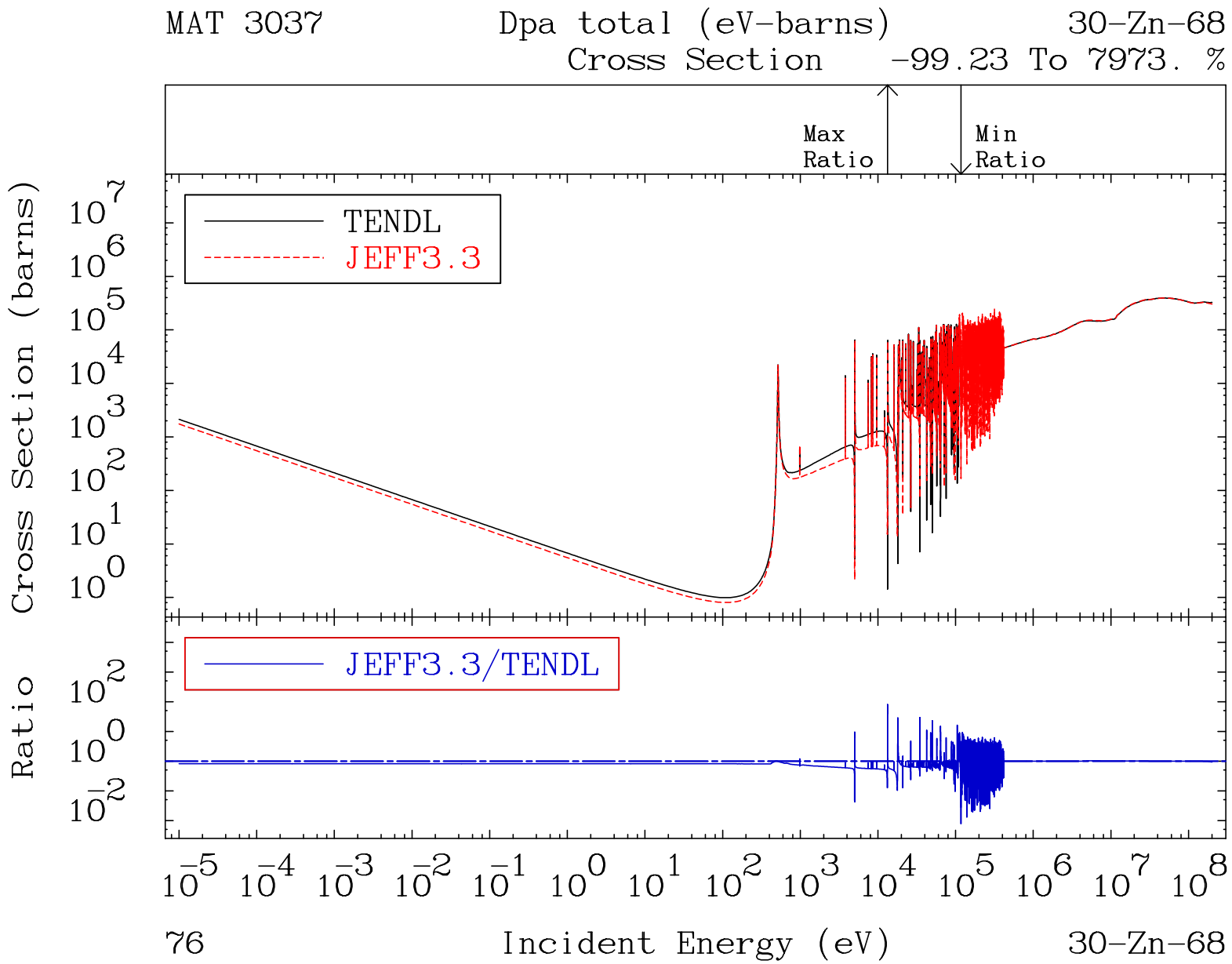

MAT 3037
Kerma inelastic (mt51-91)
30-Zn-68
Cross Section -11.05 To 9.755 %
Min Ratio
Max Ratio
TENDL Threshold 1.0934 MeV
JEFF3.3 Threshold 1.0934 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
30-Zn-68

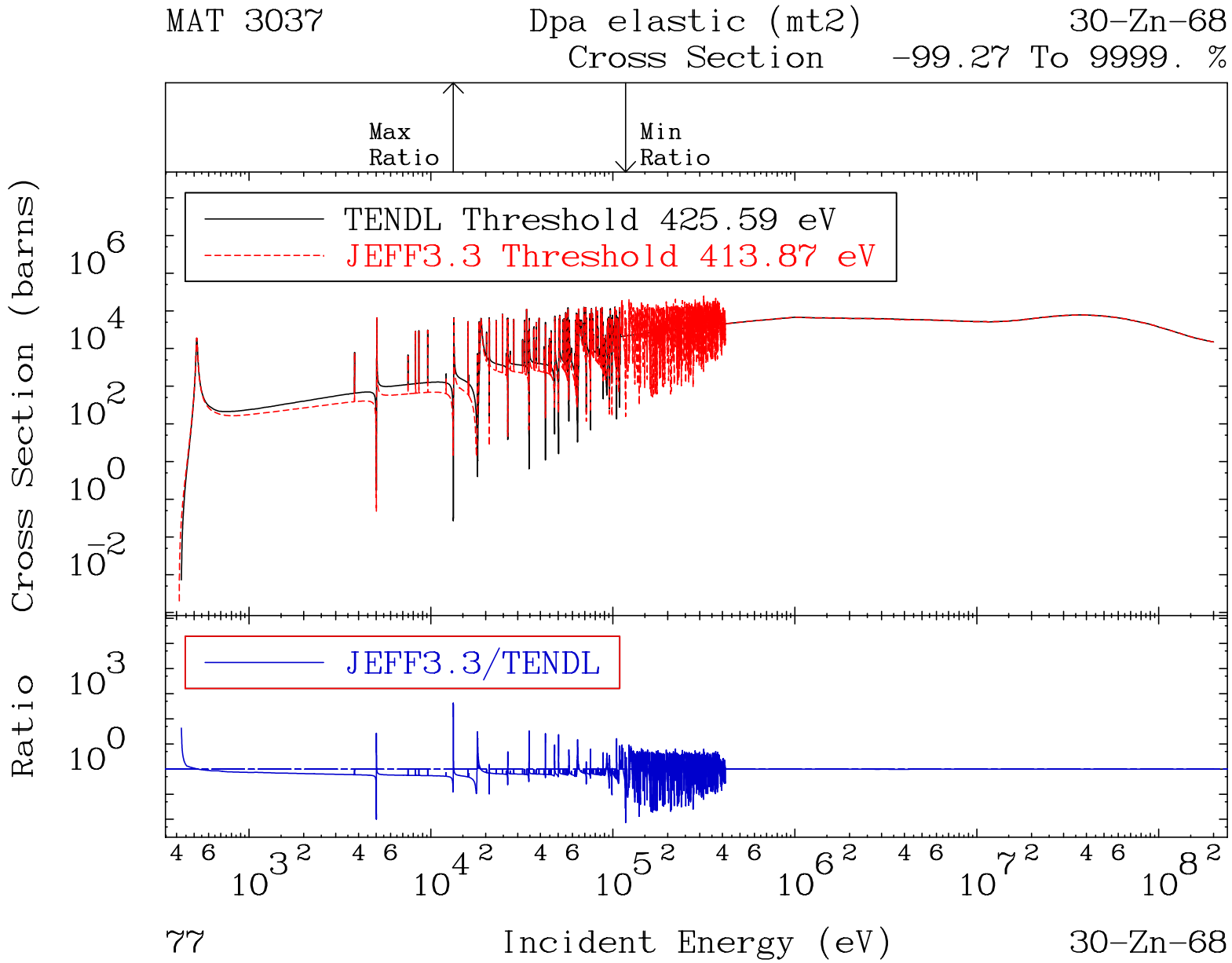

MAT 3037 Kerma fission (mt18 or mt19-20-21-38) 30-Zn-68
Cross Section -11.05 To 9.755 %
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.2
1.1
1.0
0.9
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
30-Zn-68

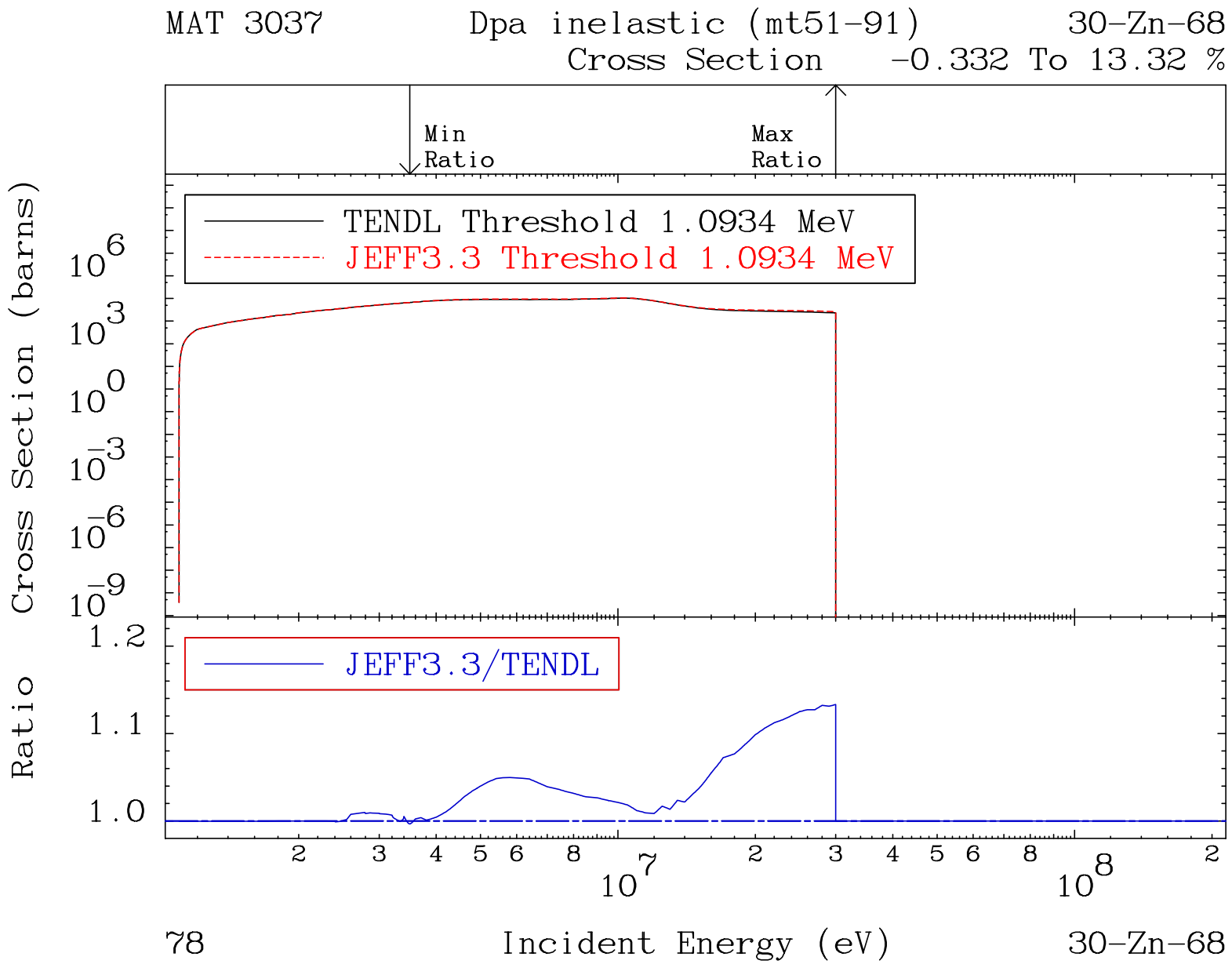

MAT 3037
Kerma capture (mt102)
30-Zn-68
Cross Section -99.55 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
30-Zn-68

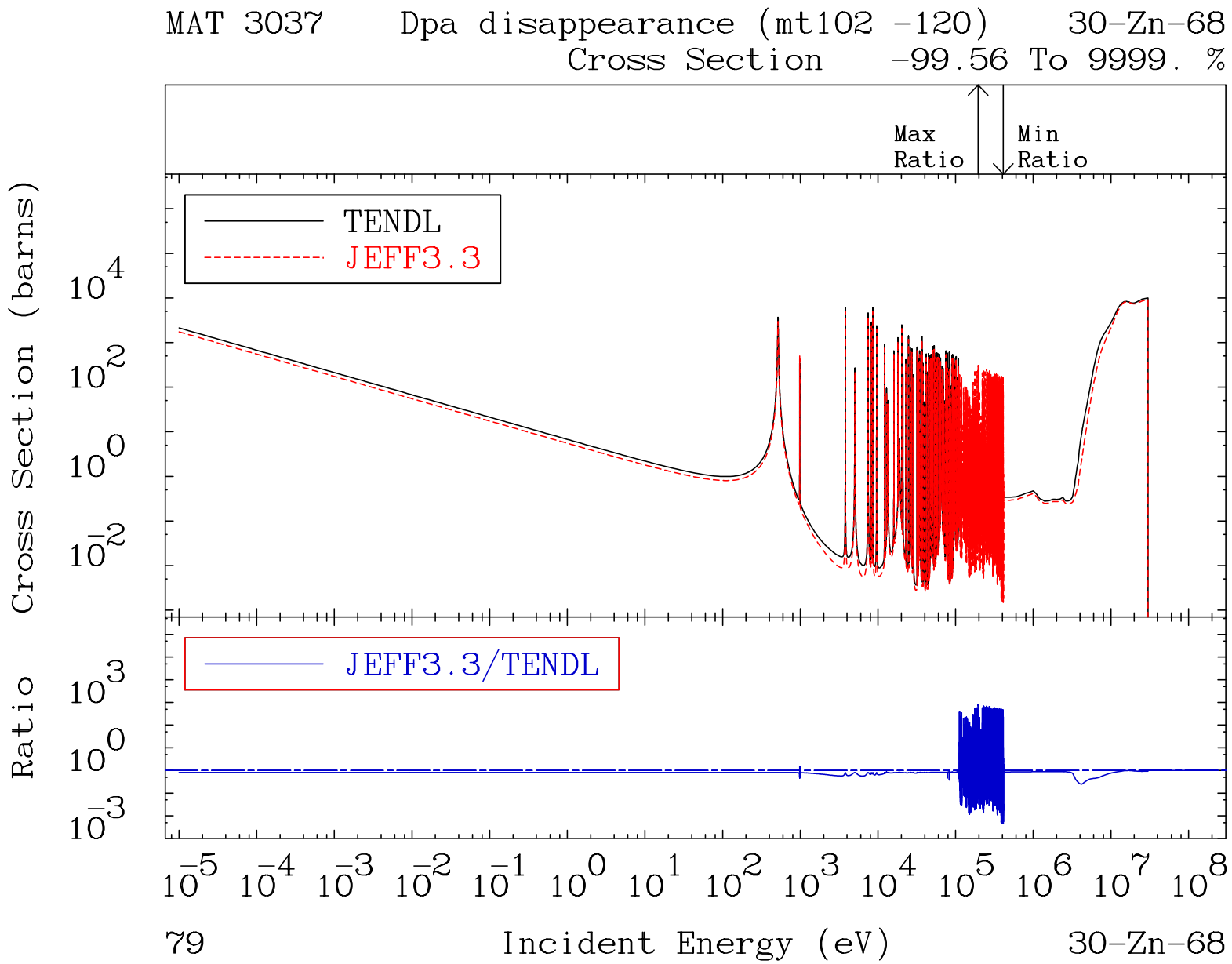

MAT 3037
Total photon (eV-barns)
30-Zn-68
Cross Section -99.47 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
30-Zn-68

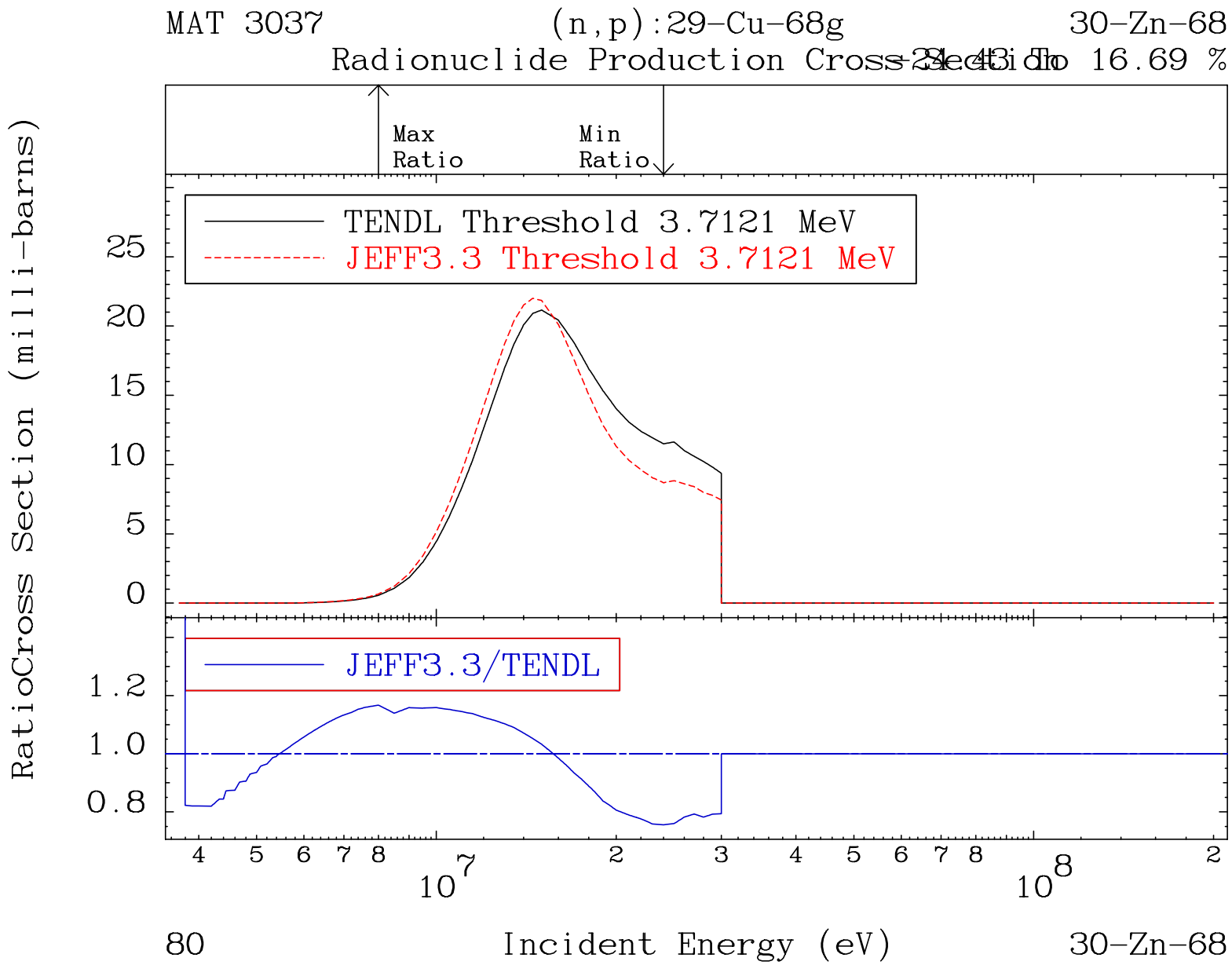

MAT 3037 Total kinematic kerma (high limit) 30-Zn-68
Cross Section -99.23 To 7670. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
30-Zn-68

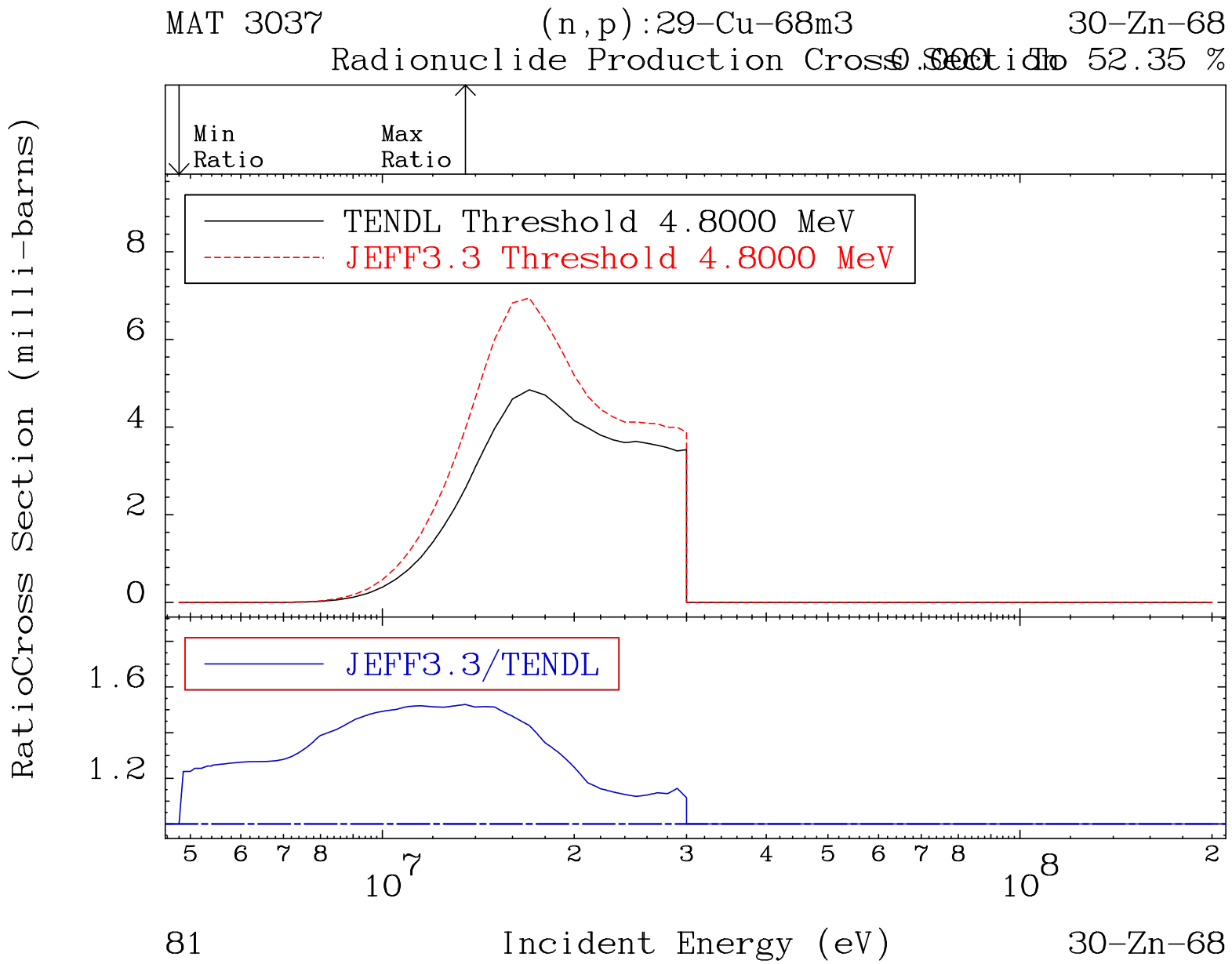

MAT 3037
Dpa total (eV-barns)
30-Zn-68
Cross Section
-99.23 To 7973. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
30-Zn-68


MAT 3037
Dpa elastic (mt2)
Cross Section
30-Zn-68
-99.27 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 425.59 eV
JEFF3.3 Threshold 413.87 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
30-Zn-68


MAT 3037
Dpa inelastic (mt51-91)
30-Zn-68
Cross Section -0.332 To 13.32 %
Min Ratio
Max Ratio
TENDL Threshold 1.0934 MeV
JEFF3.3 Threshold 1.0934 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
78
30-Zn-68


MAT 3037 Dpa disappearance (mt102 -120) 30-Zn-68
Cross Section -99.56 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
79
30-Zn-68


MAT 3037
(n,p):29-Cu-68g
30-Zn-68
Radionuclide Production Cross Section To 16.69 %
Max Ratio
Min Ratio
TENDL Threshold 3.7121 MeV
JEFF3.3 Threshold 3.7121 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80
30-Zn-68


MAT 3037
(n,p):29-Cu-68m3
30-Zn-68
Radionuclide Production Cross Section To 52.35 %
Min Ratio
Max Ratio
TENDL Threshold 4.8000 MeV
JEFF3.3 Threshold 4.8000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
30-Zn-68