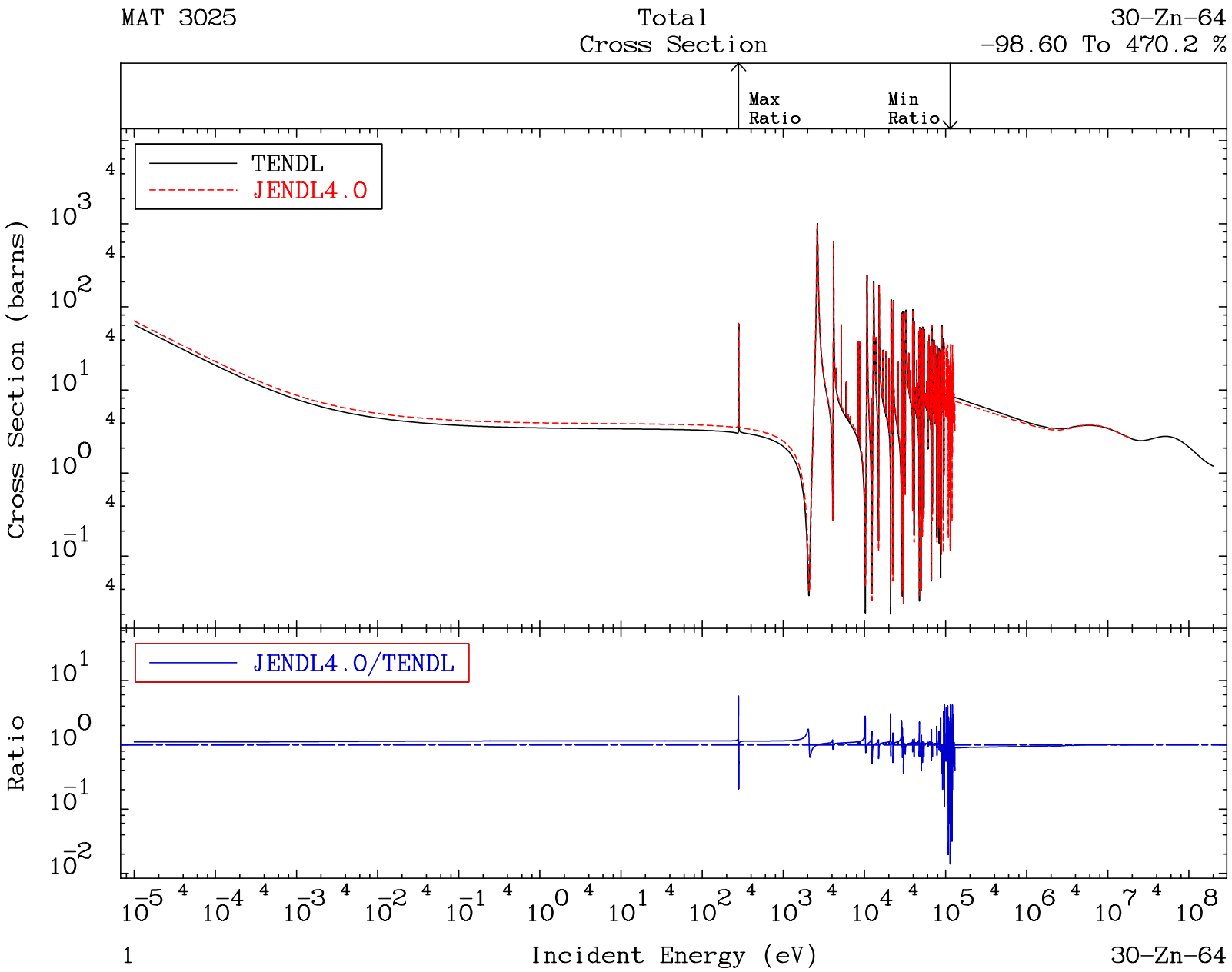
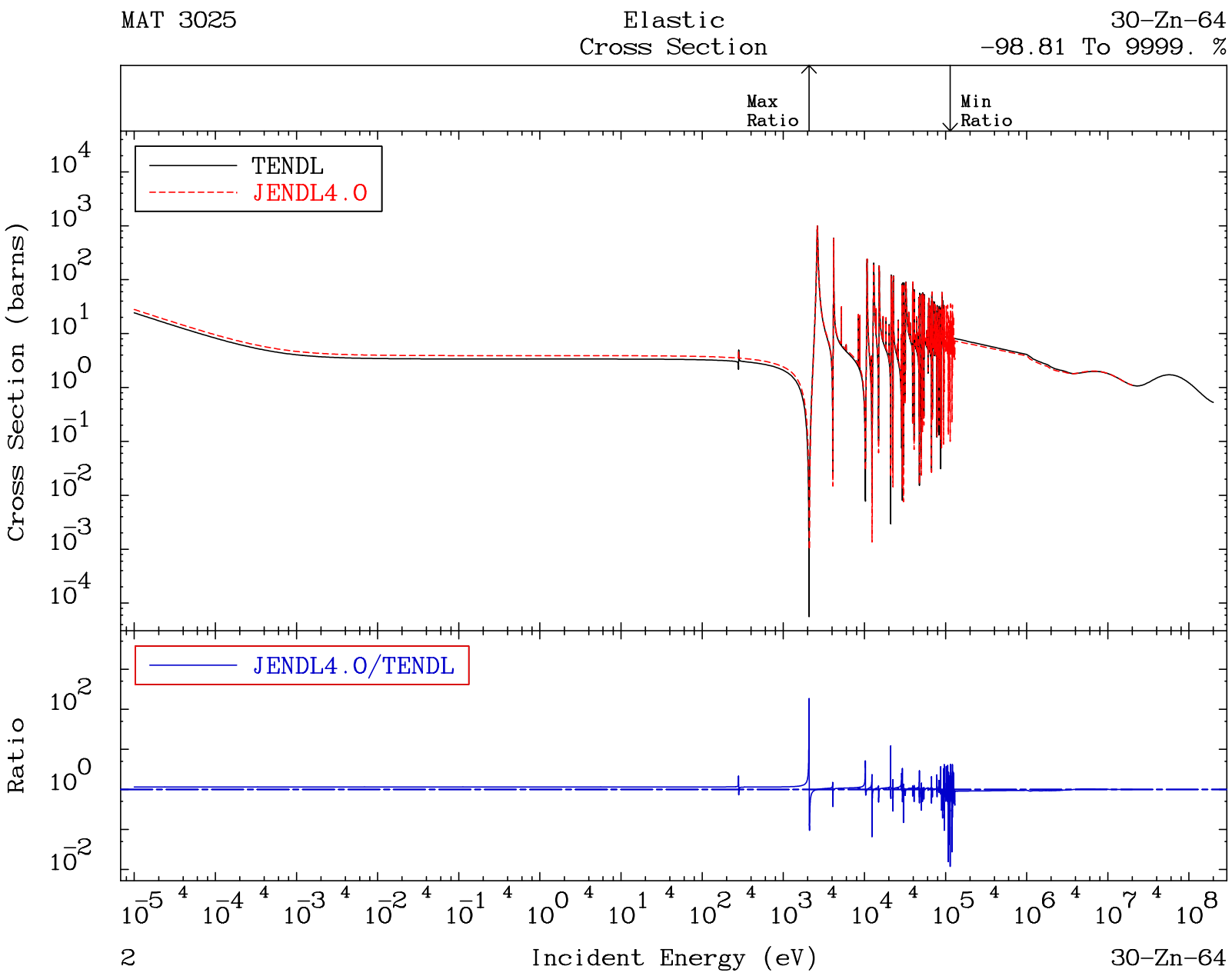
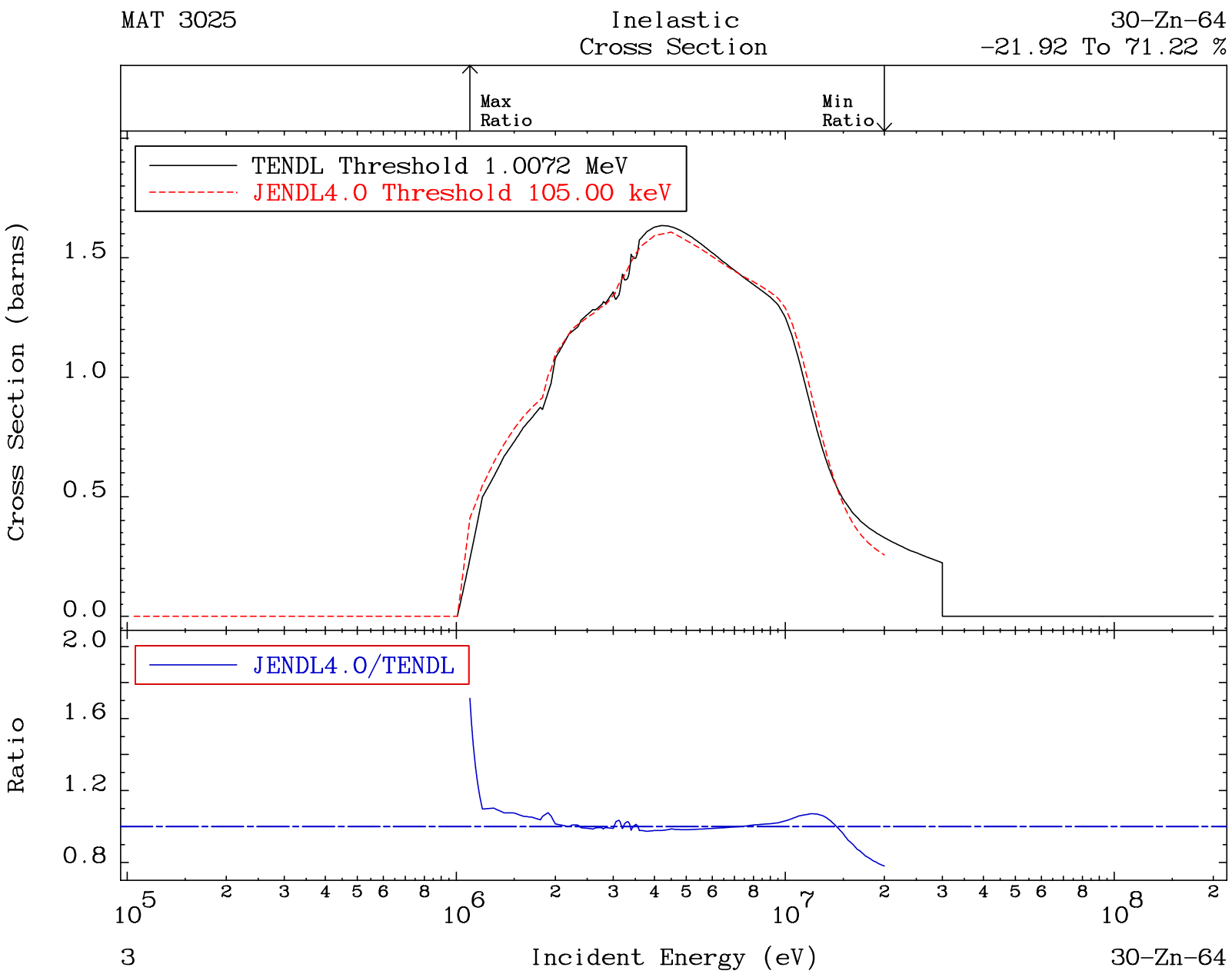
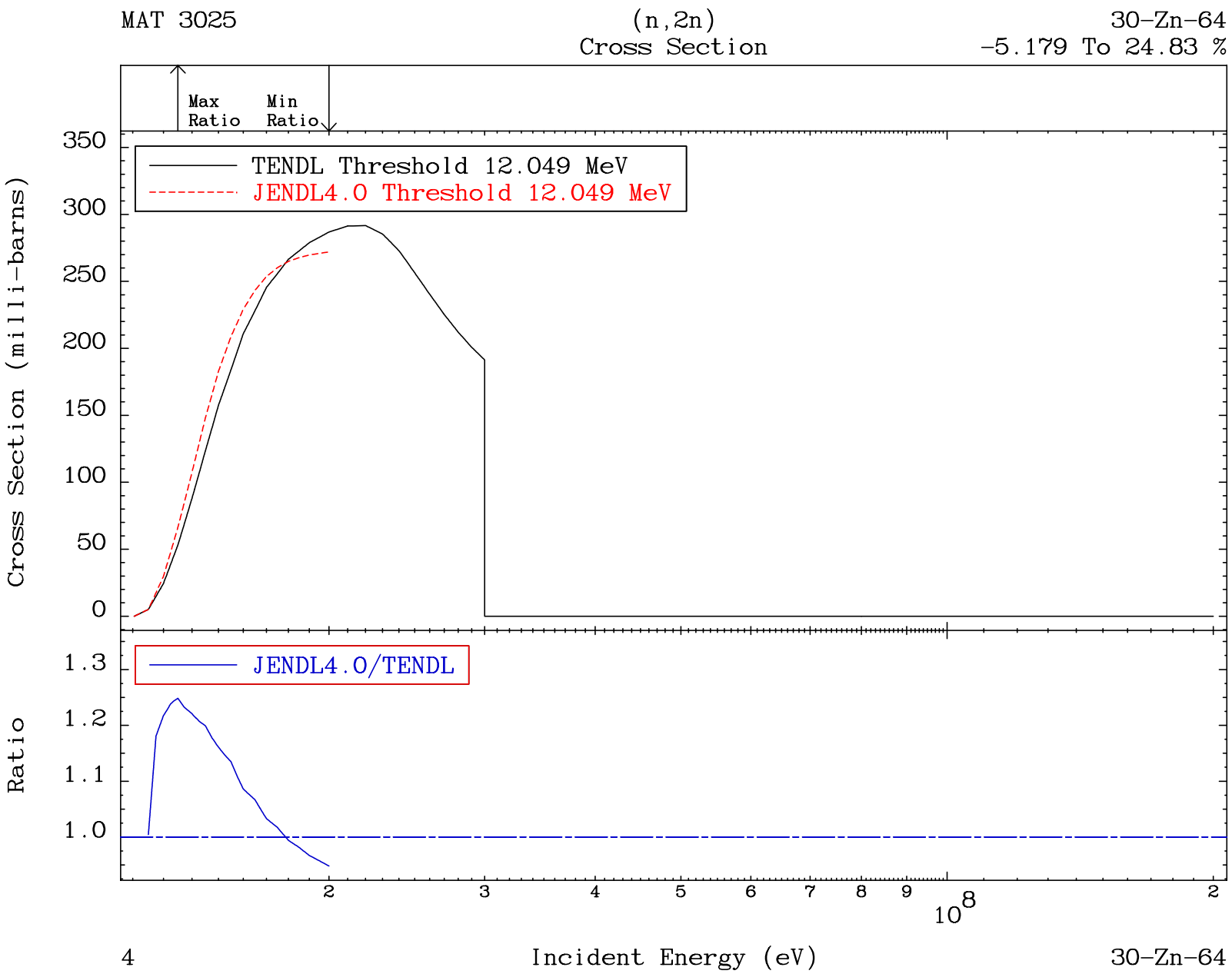
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

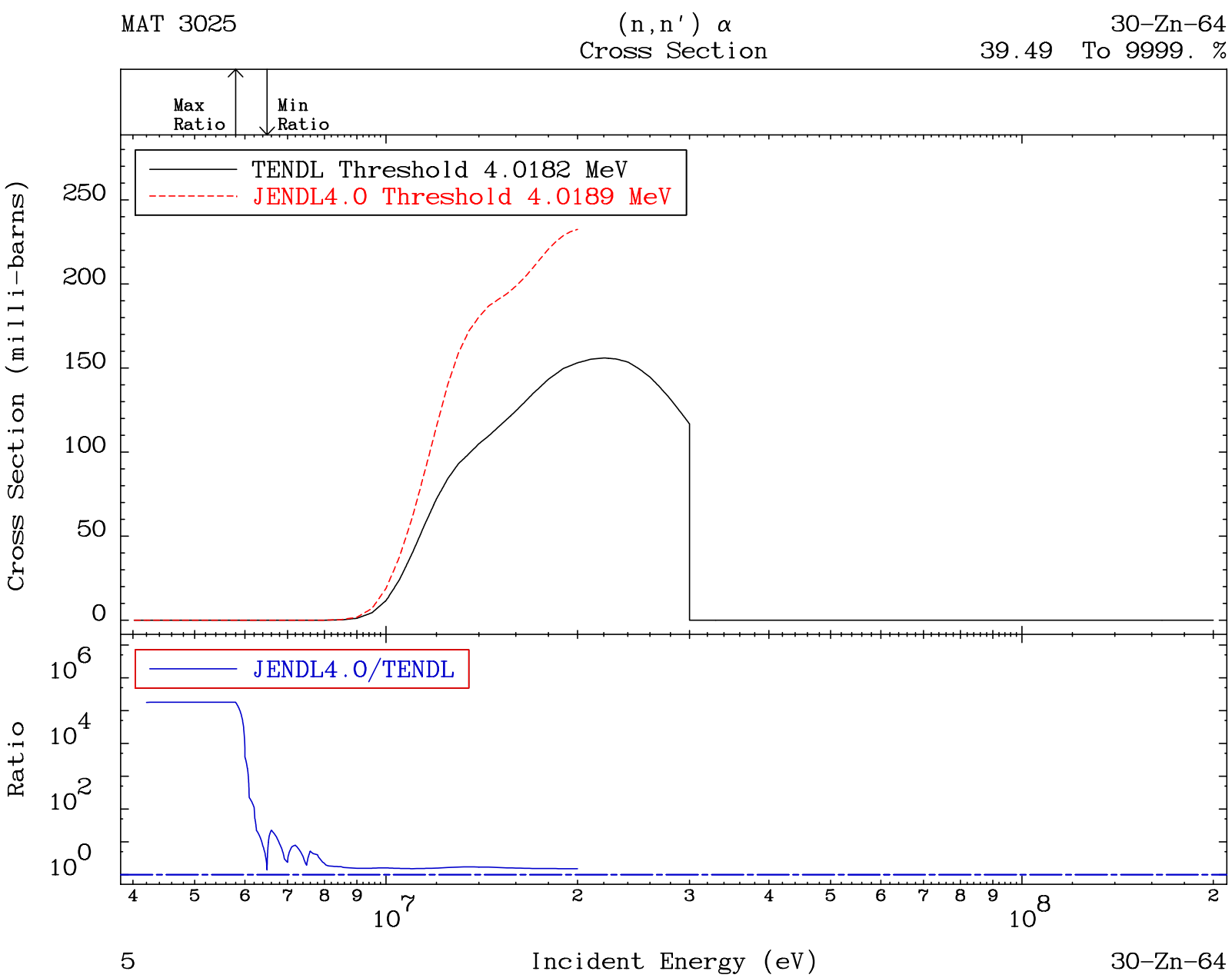
Press Mouse Button to Start

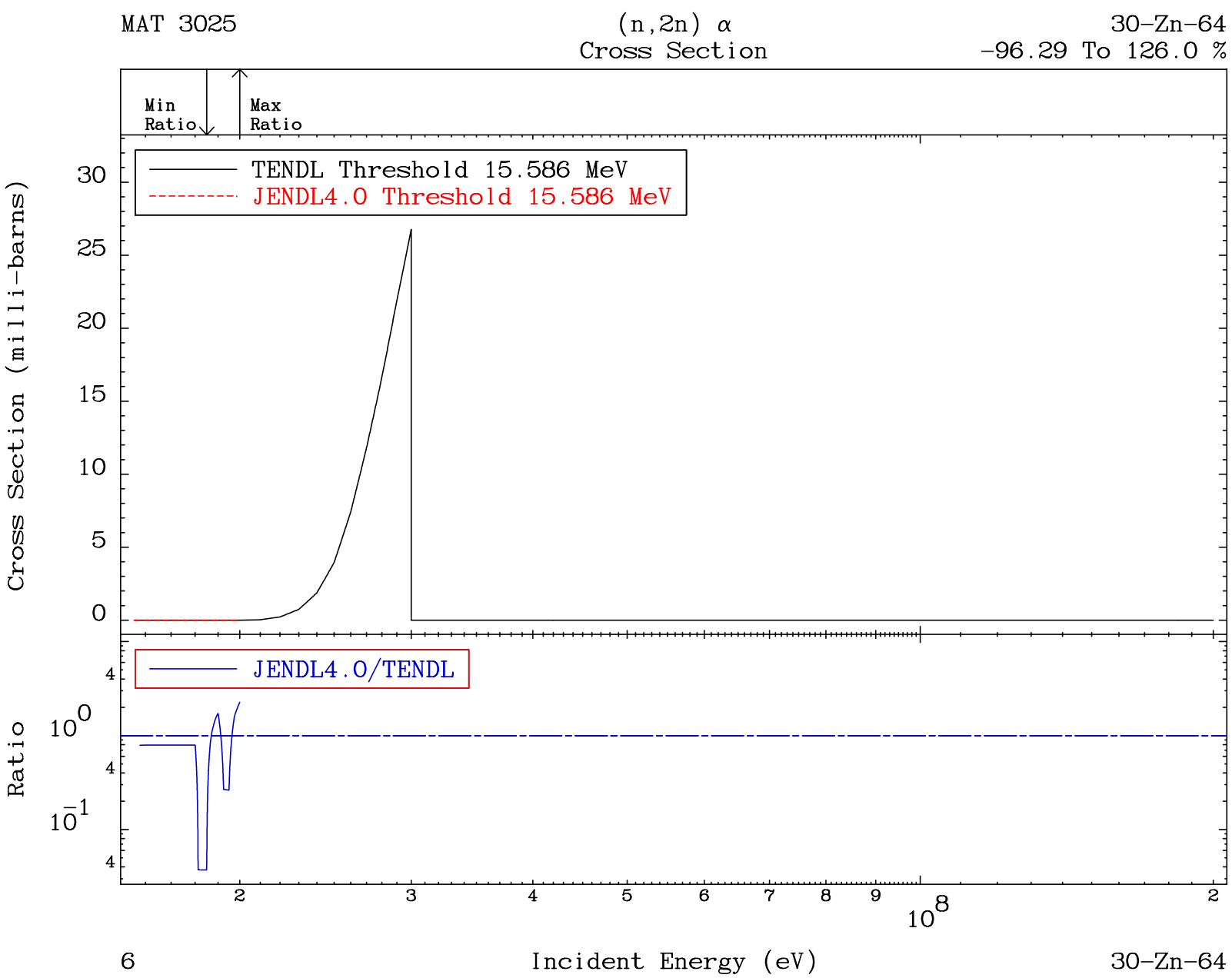

MAT 3025
Total
Cross Section
30-Zn-64
-98.60 To 470.2 %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
30-Zn-64

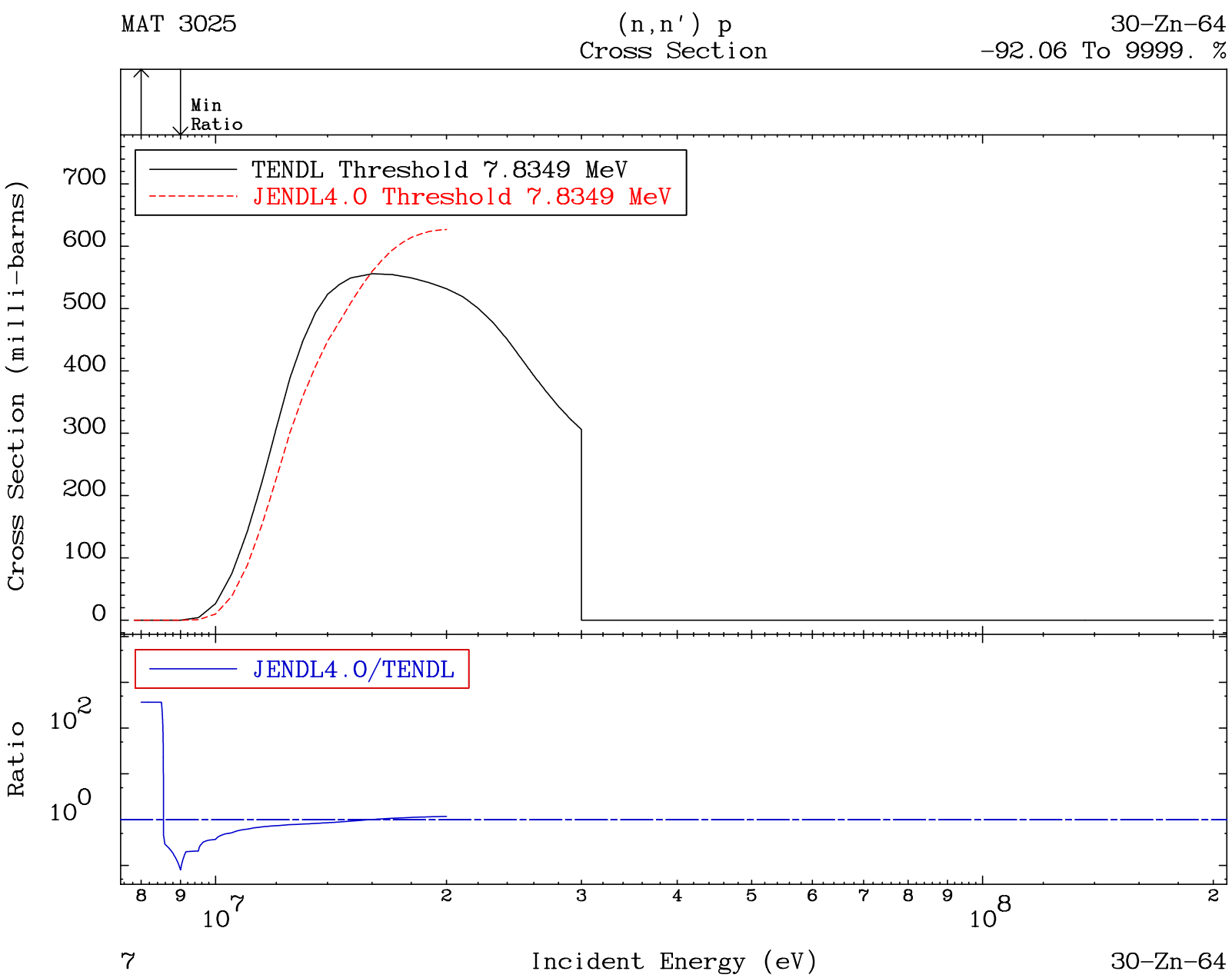

MAT 3025
Elastic
Cross Section
30-Zn-64
-98.81 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
30-Zn-64

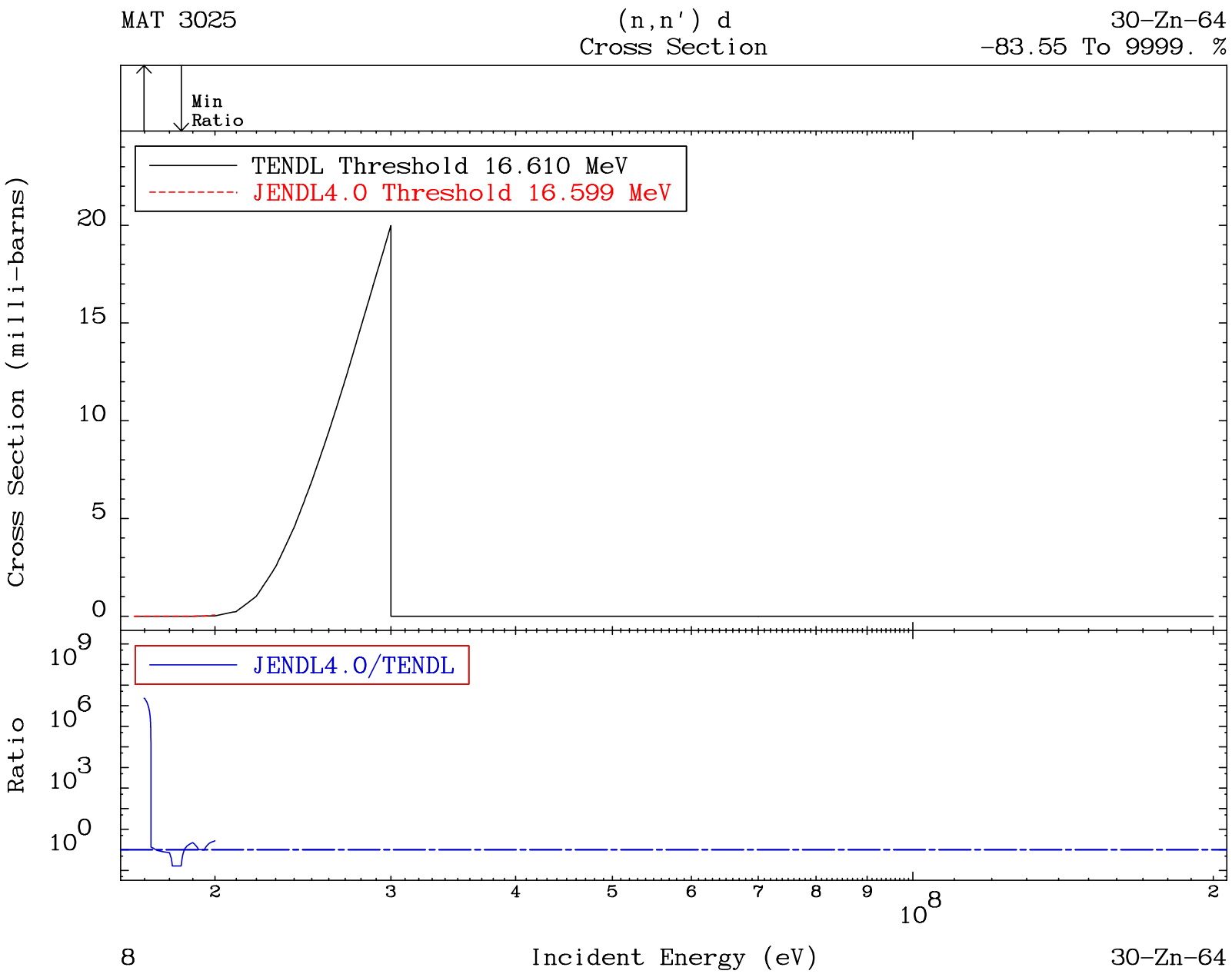

MAT 3025
Inelastic
Cross Section
30-Zn-64
-21.92 To 71.22 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.0072 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
2.0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
30-Zn-64

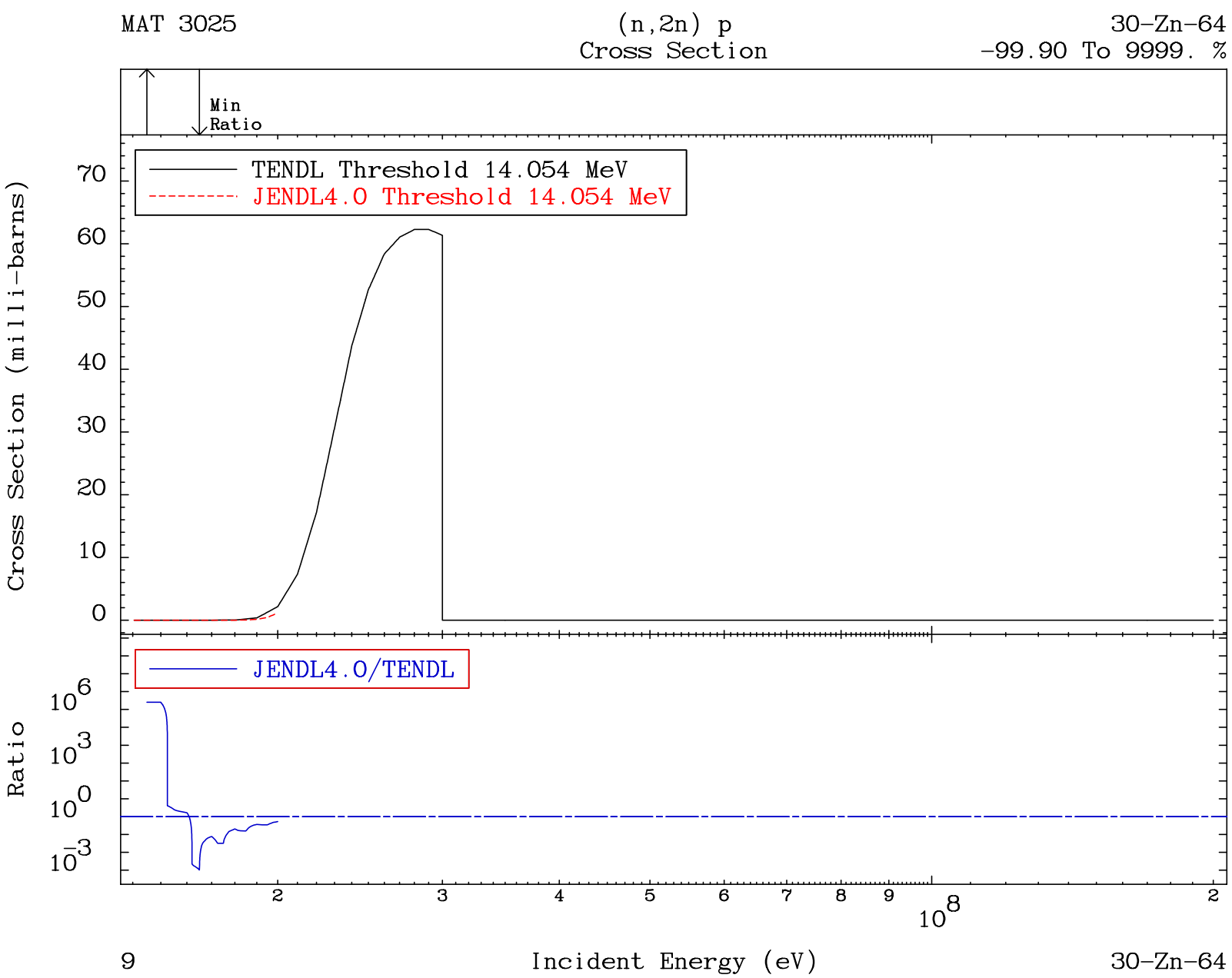

MAT 3025
(n,2n)
Cross Section
30-Zn-64
-5.179 To 24.83 %
Max Ratio
Min Ratio
TENDL Threshold 12.049 MeV
JENDL4.0 Threshold 12.049 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.3
1.2
1.1
1.0
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
30-Zn-64

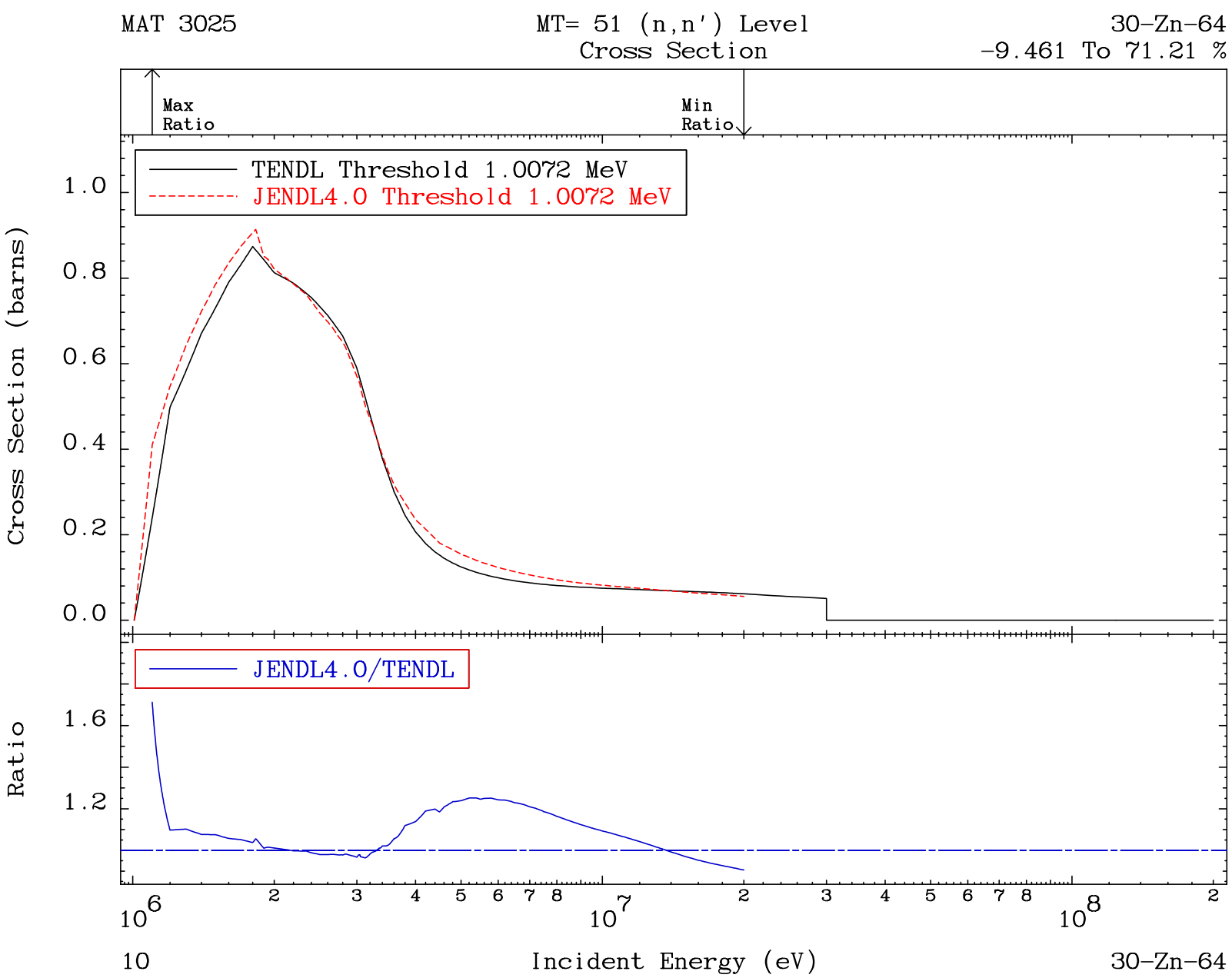

MAT 3025
(n,n') α
Cross Section
30-Zn-64
39.49 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.0182 MeV
JENDL4.0 Threshold 4.0189 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
30-Zn-64

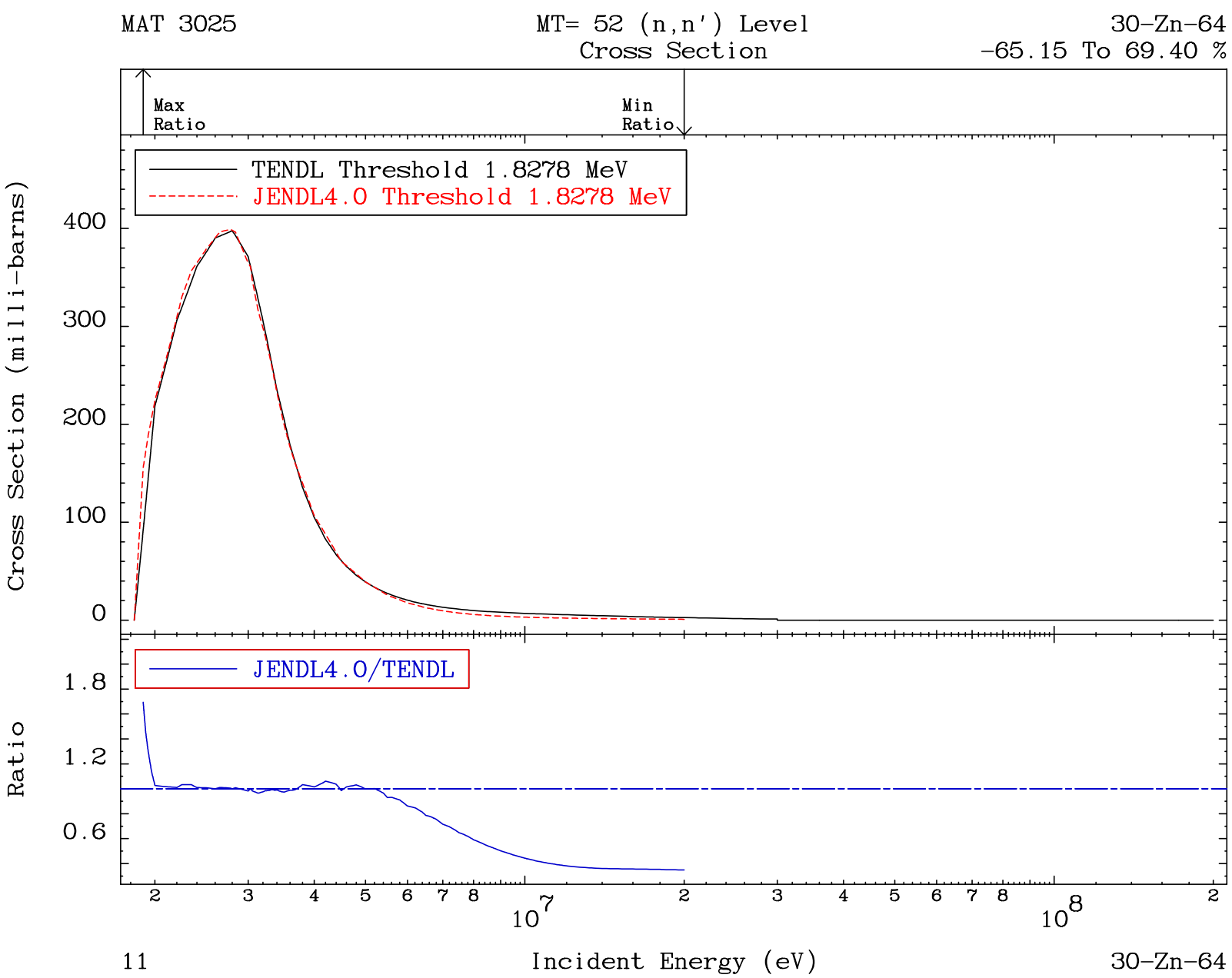

MAT 3025
(n,2n) α
Cross Section
30-Zn-64
-96.29 To 126.0 %
Min Ratio
Max Ratio
TENDL Threshold 15.586 MeV
JENDL4.0 Threshold 15.586 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
30-Zn-64

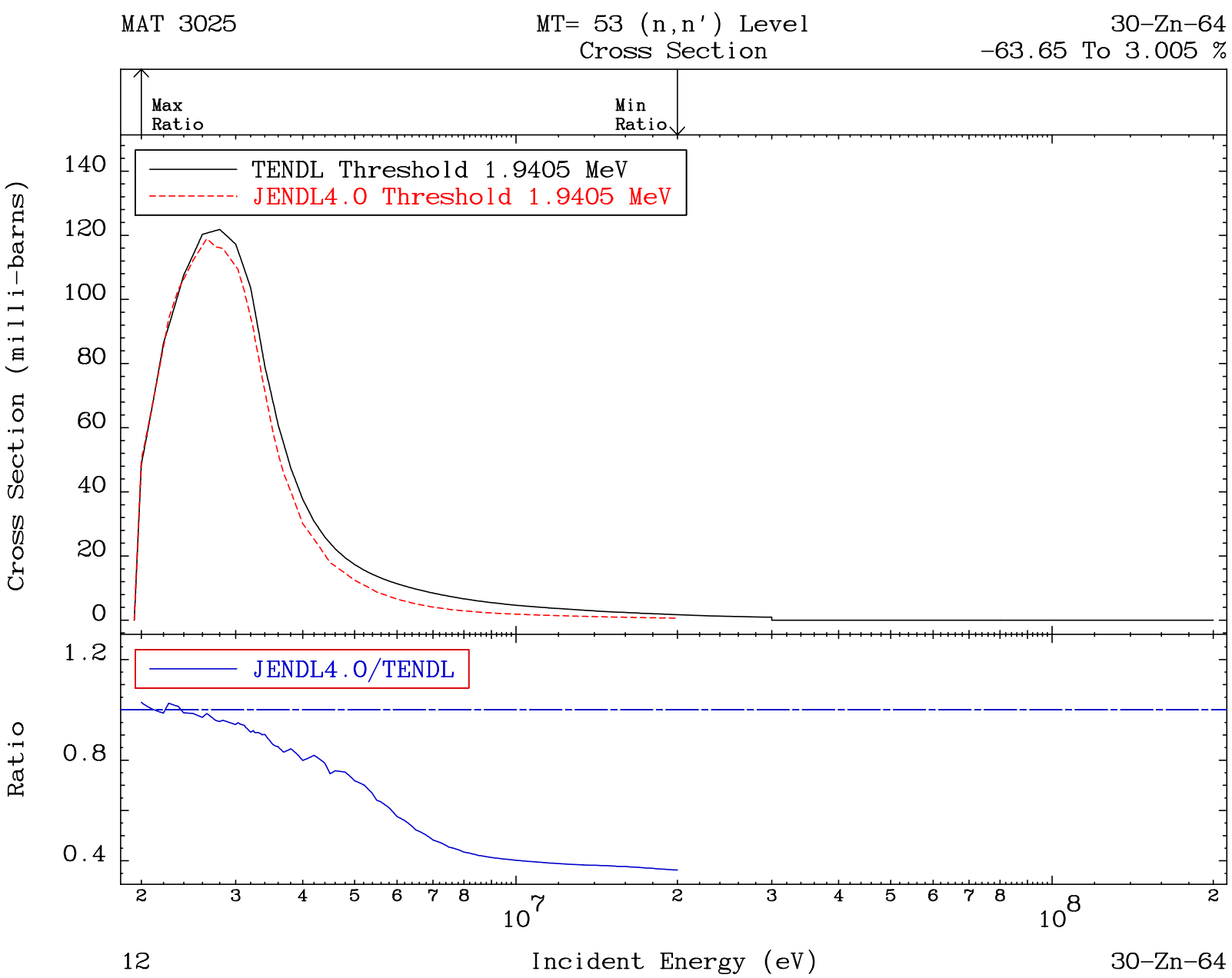

MAT 3025
(n,n') p
Cross Section
30-Zn-64
-92.06 To 9999. %
Min
Ratio
TENDL Threshold 7.8349 MeV
JENDL4.0 Threshold 7.8349 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
30-Zn-64

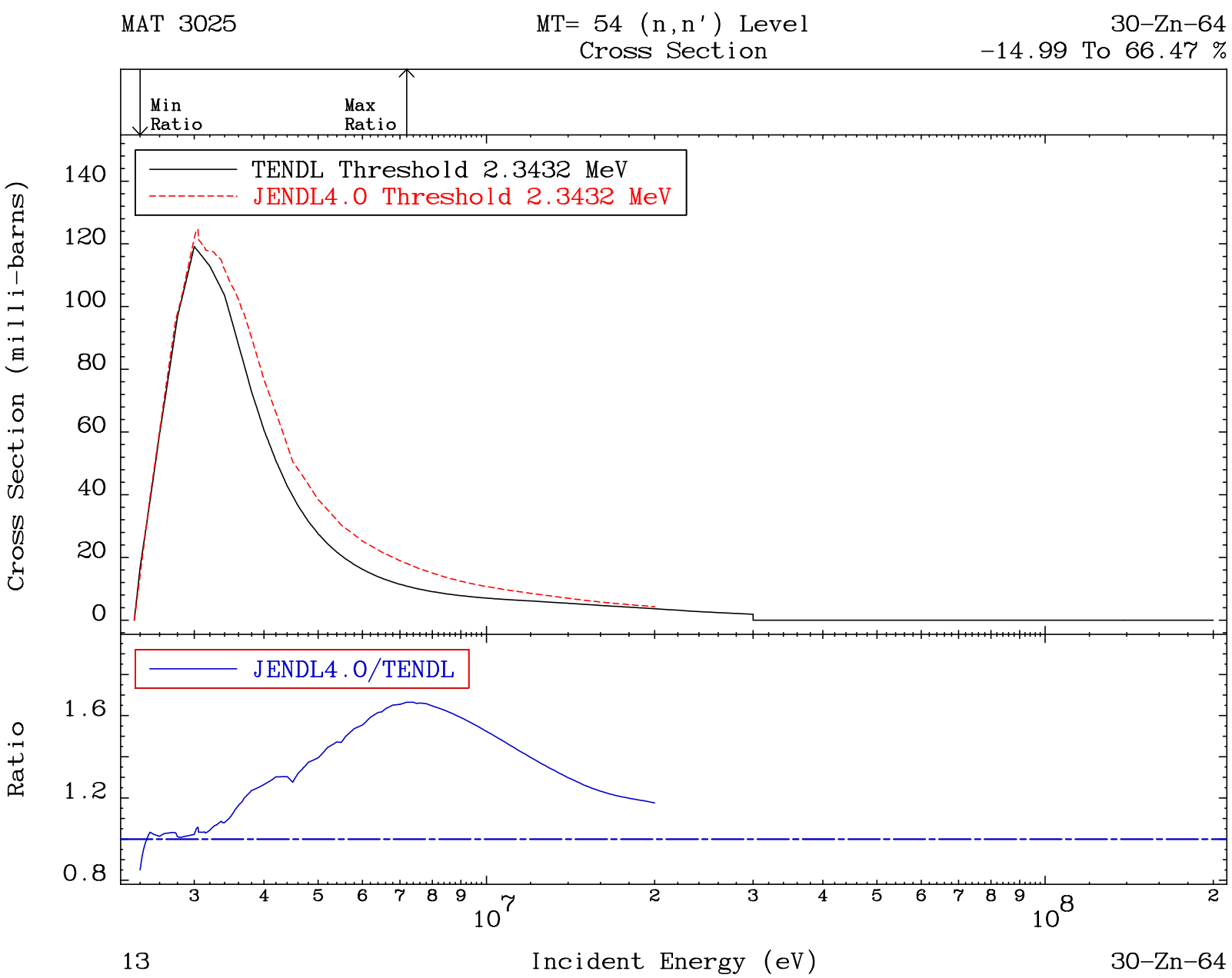

MAT 3025
(n,n') d
Cross Section
30-Zn-64
-83.55 To 9999. %
Min
Ratio
TENDL Threshold 16.610 MeV
JENDL4.0 Threshold 16.599 MeV
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
30-Zn-64

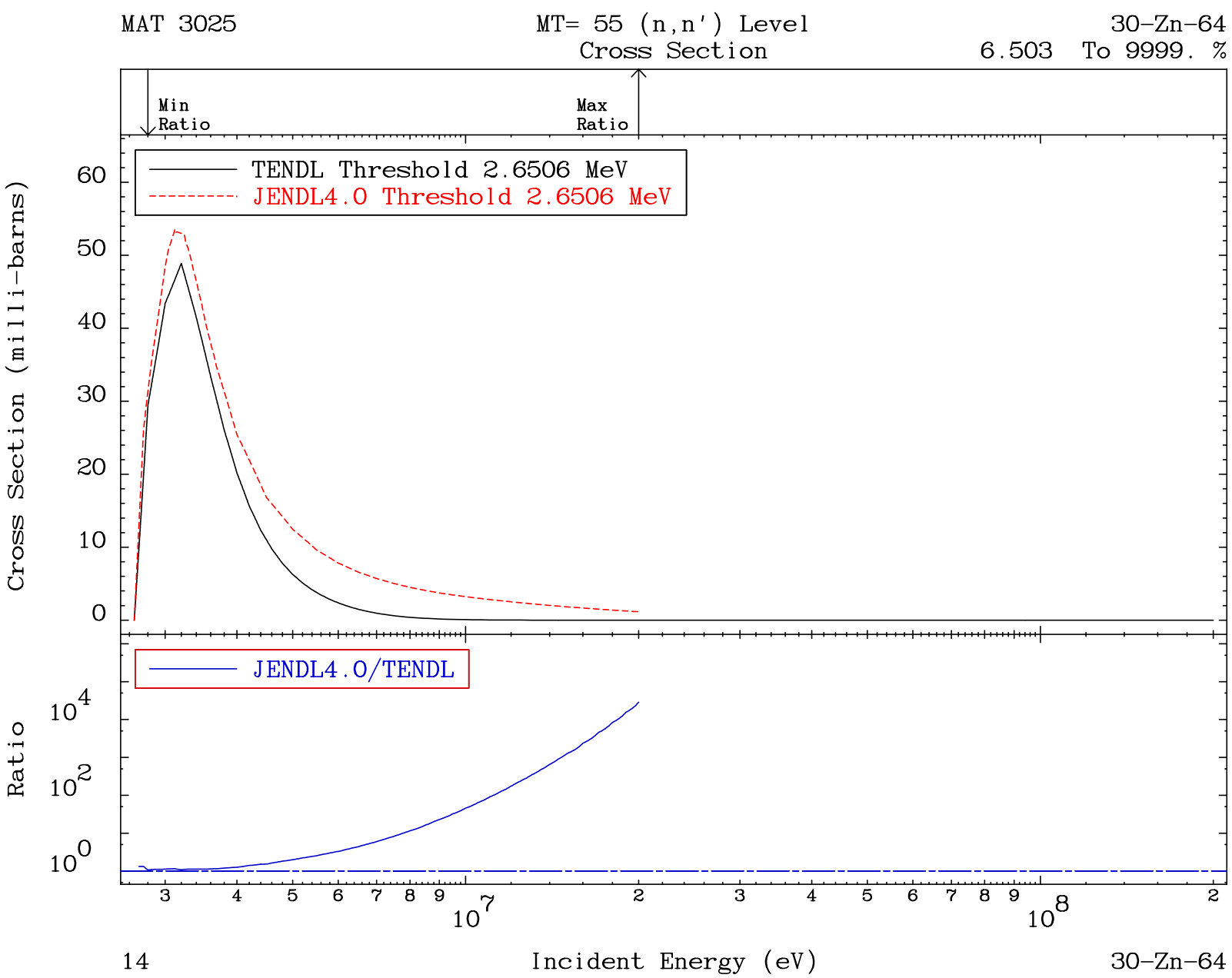

MAT 3025
(n,2n) p
Cross Section
30-Zn-64
-99.90 To 9999. %
Min
Ratio
TENDL Threshold 14.054 MeV
JENDL4.0 Threshold 14.054 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
10^-3
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
30-Zn-64

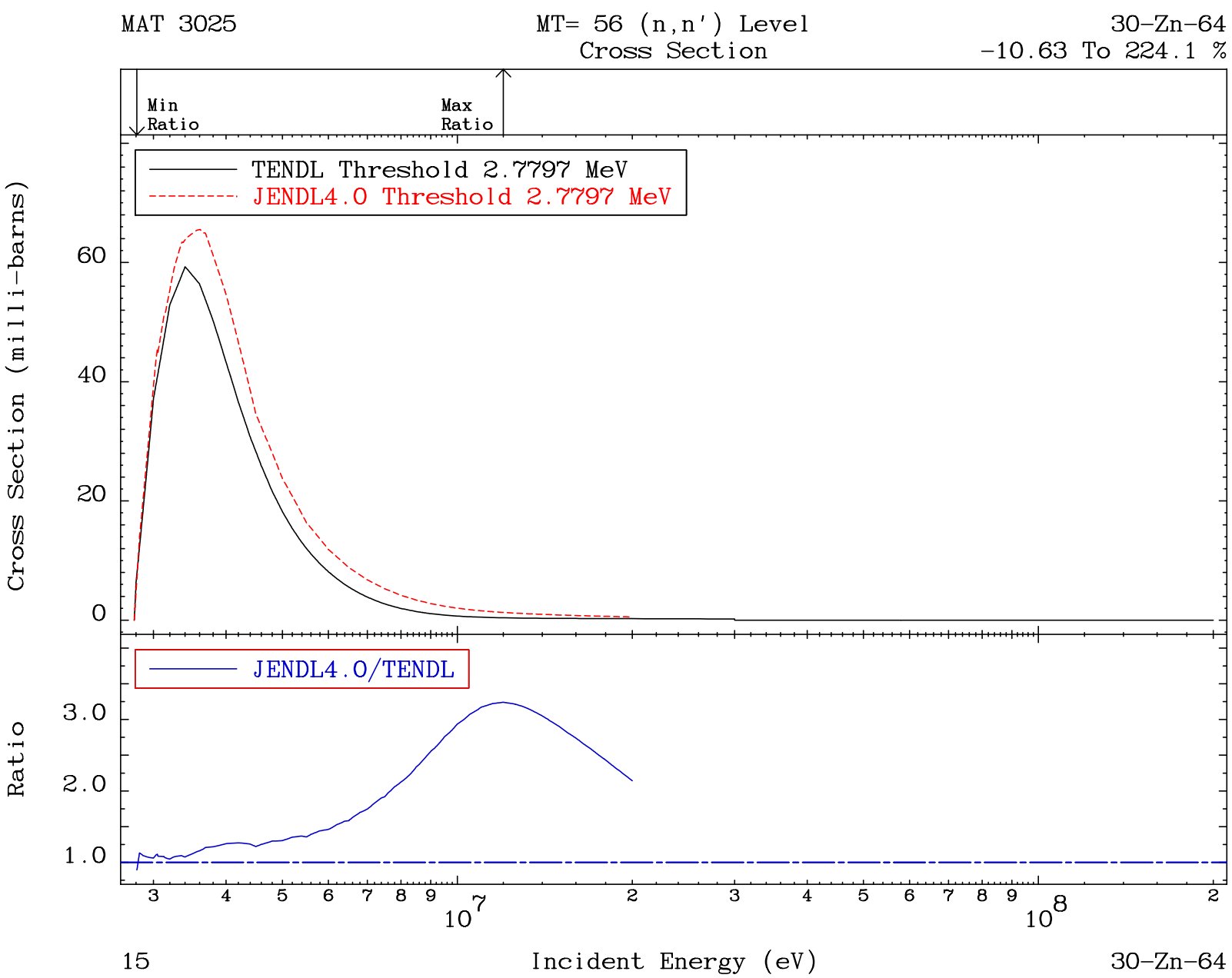

MAT 3025
MT= 51 (n,n') Level
Cross Section
30-Zn-64
-9.461 To 71.21 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.0072 MeV
JENDL4.0 Threshold 1.0072 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.6
1.2
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
30-Zn-64

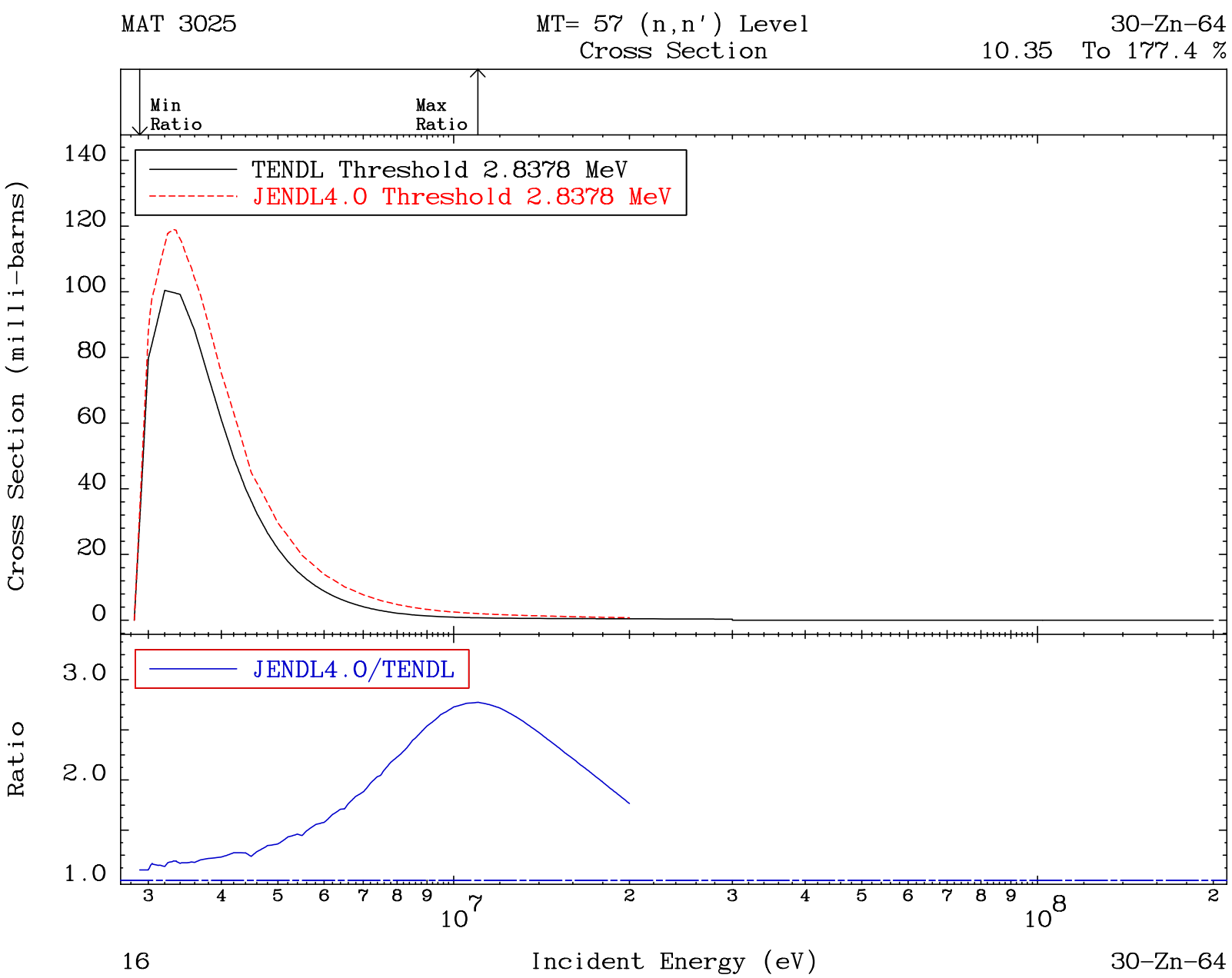

MAT 3025
MT= 52 (n,n') Level
Cross Section
30-Zn-64
-65.15 To 69.40 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.8278 MeV
JENDL4.0 Threshold 1.8278 MeV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
1.8
1.2
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
30-Zn-64

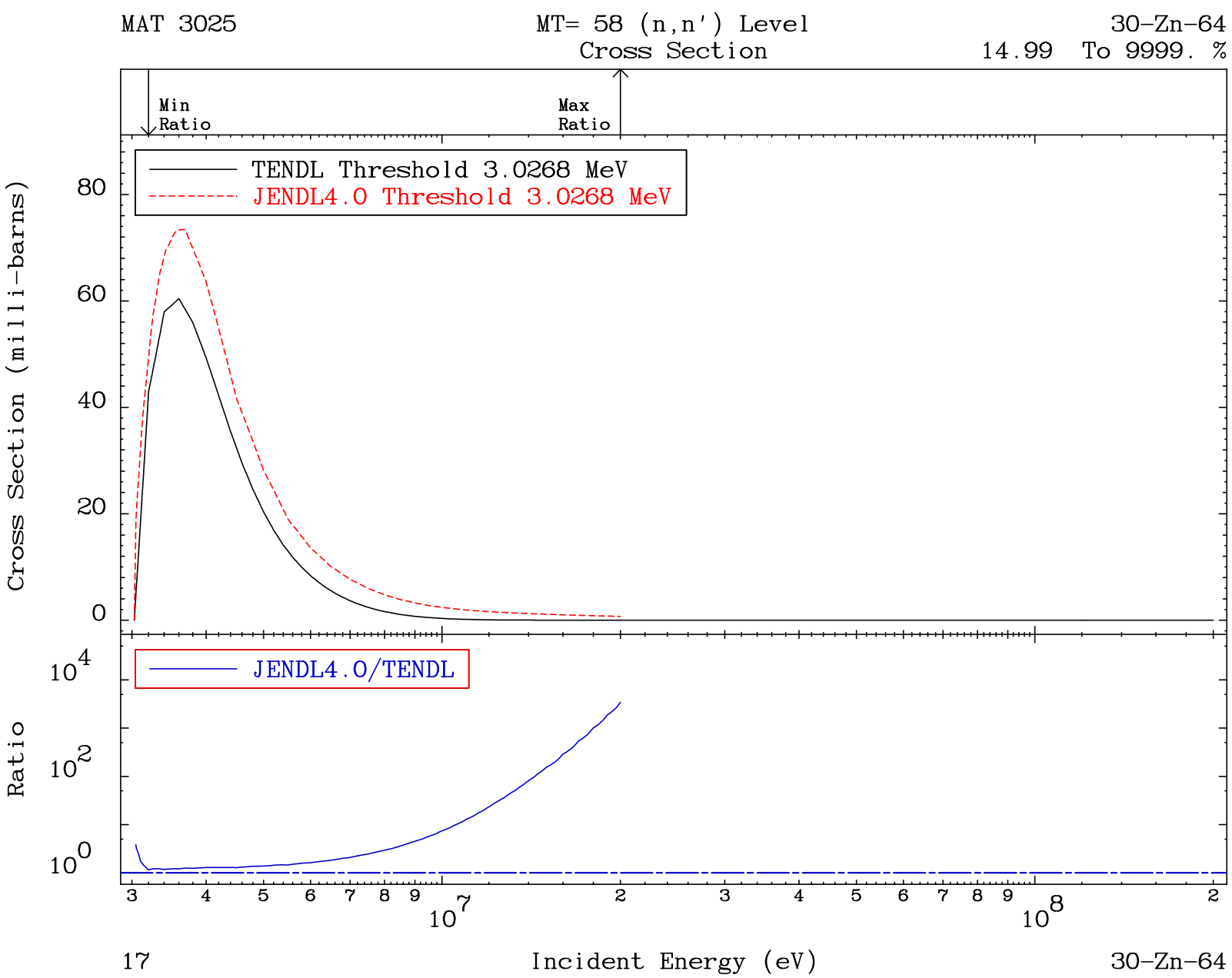

MAT 3025
MT= 53 (n,n') Level
Cross Section
30-Zn-64
-63.65 To 3.005 %
Max Ratio
Min Ratio
TENDL Threshold 1.9405 MeV
JENDL4.0 Threshold 1.9405 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
30-Zn-64

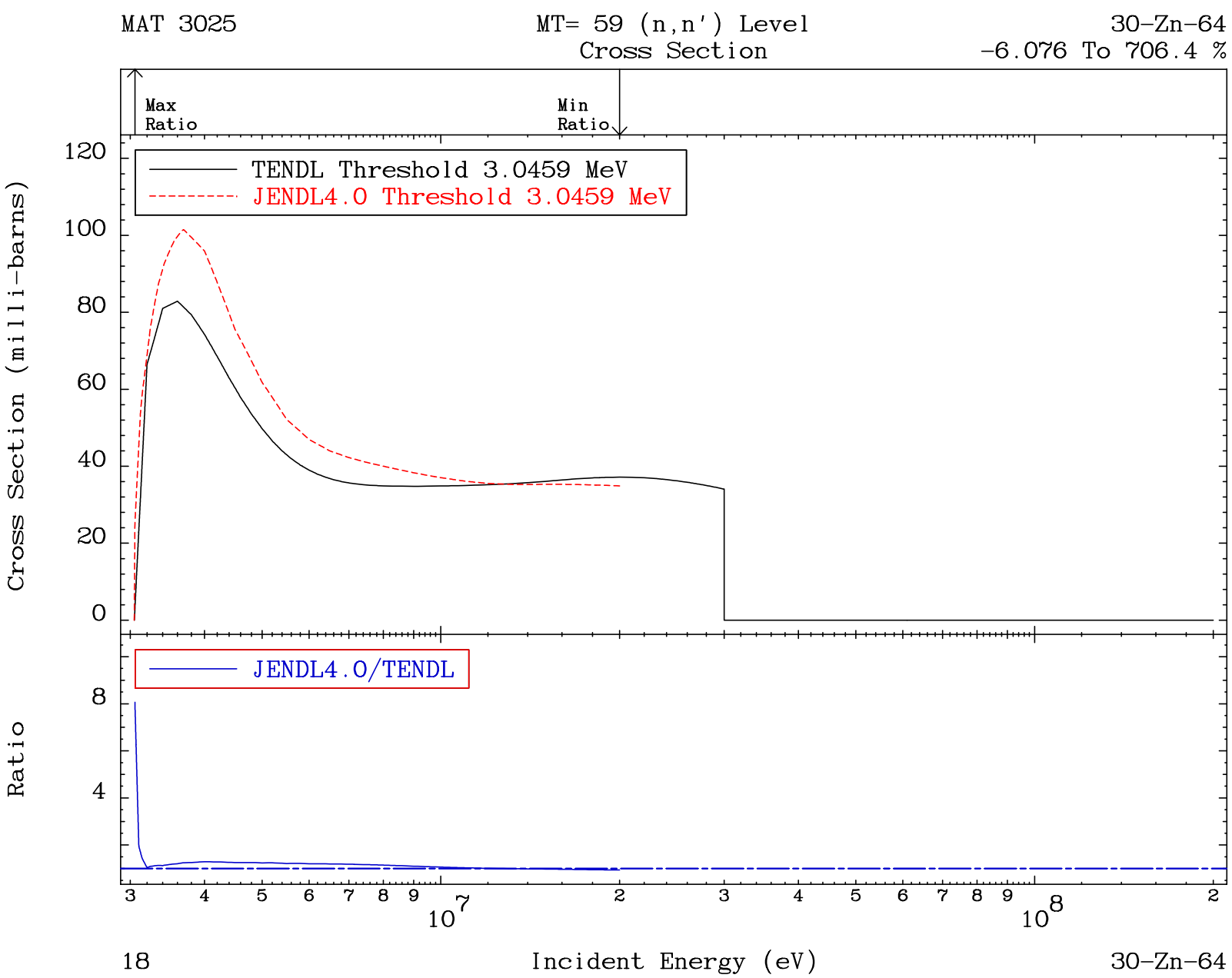

MAT 3025
MT= 54 (n,n') Level
Cross Section
30-Zn-64
-14.99 To 66.47 %
Min Ratio
Max Ratio
TENDL Threshold 2.3432 MeV
JENDL4.0 Threshold 2.3432 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
30-Zn-64

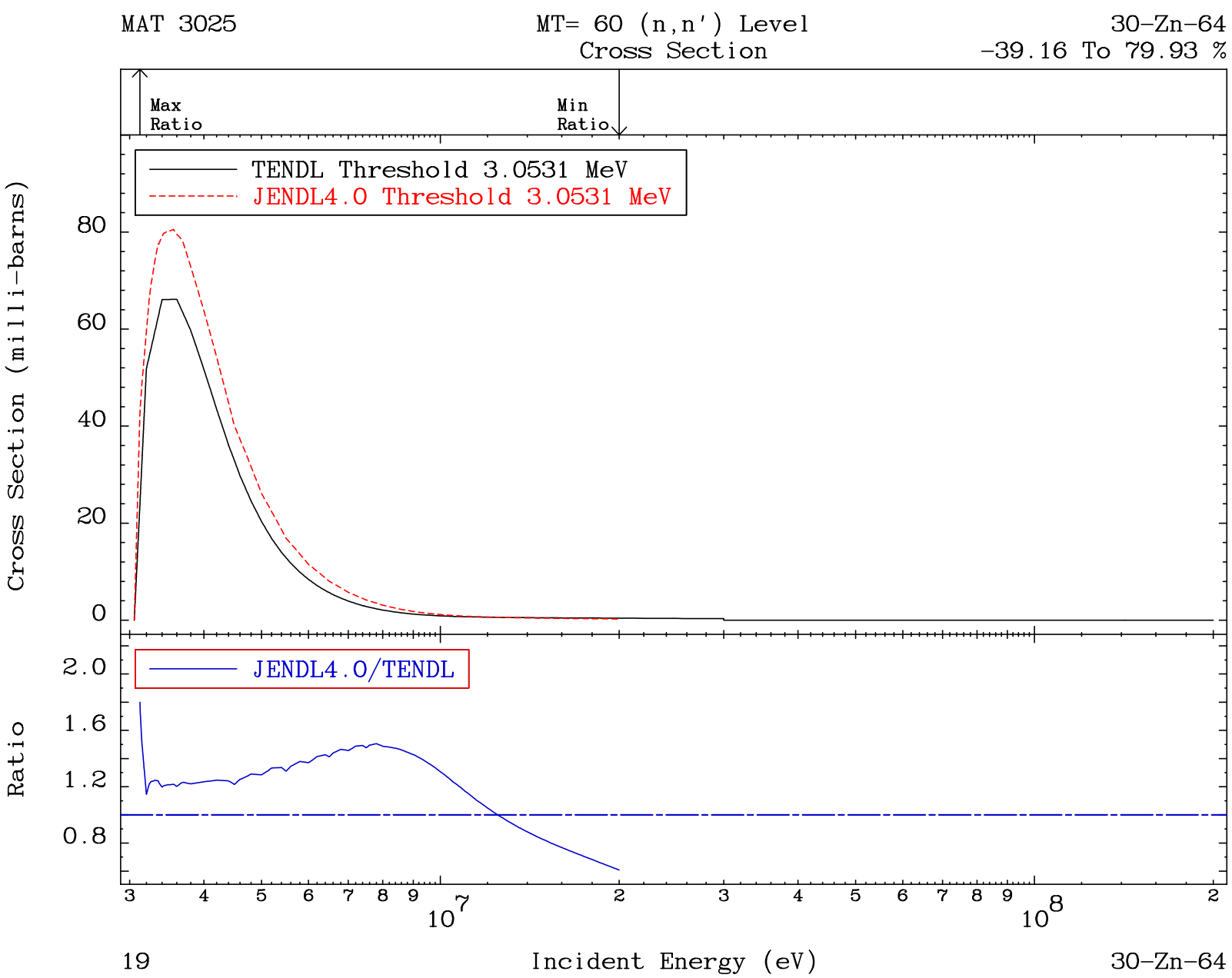

MAT 3025
MT= 55 (n,n') Level
Cross Section
30-Zn-64
6.503 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6506 MeV
JENDL4.0 Threshold 2.6506 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
30-Zn-64

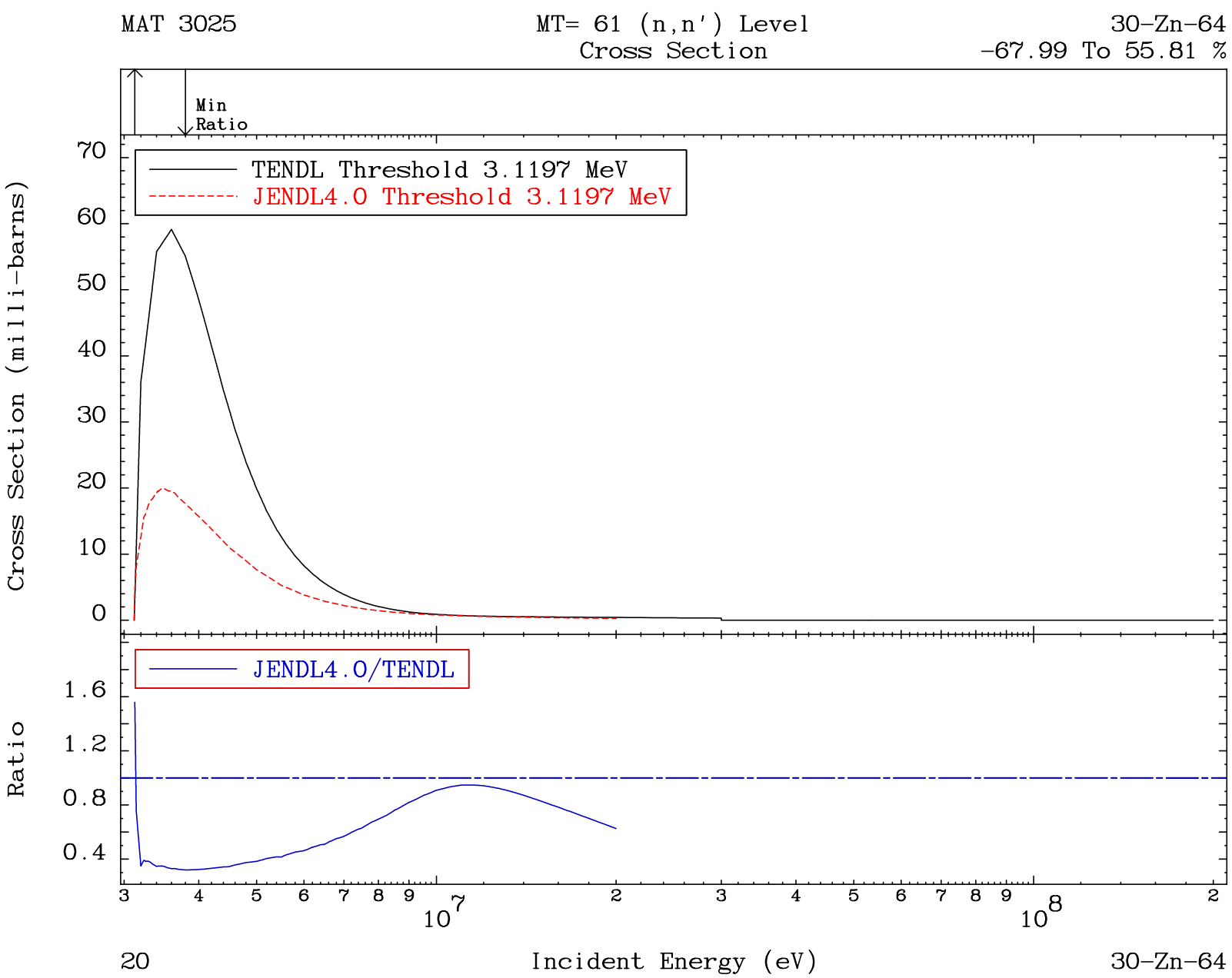

MAT 3025
MT= 56 (n,n') Level
Cross Section
30-Zn-64
-10.63 To 224.1 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7797 MeV
JENDL4.0 Threshold 2.7797 MeV
Cross Section (milli-barns)
60
40
20
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
30-Zn-64

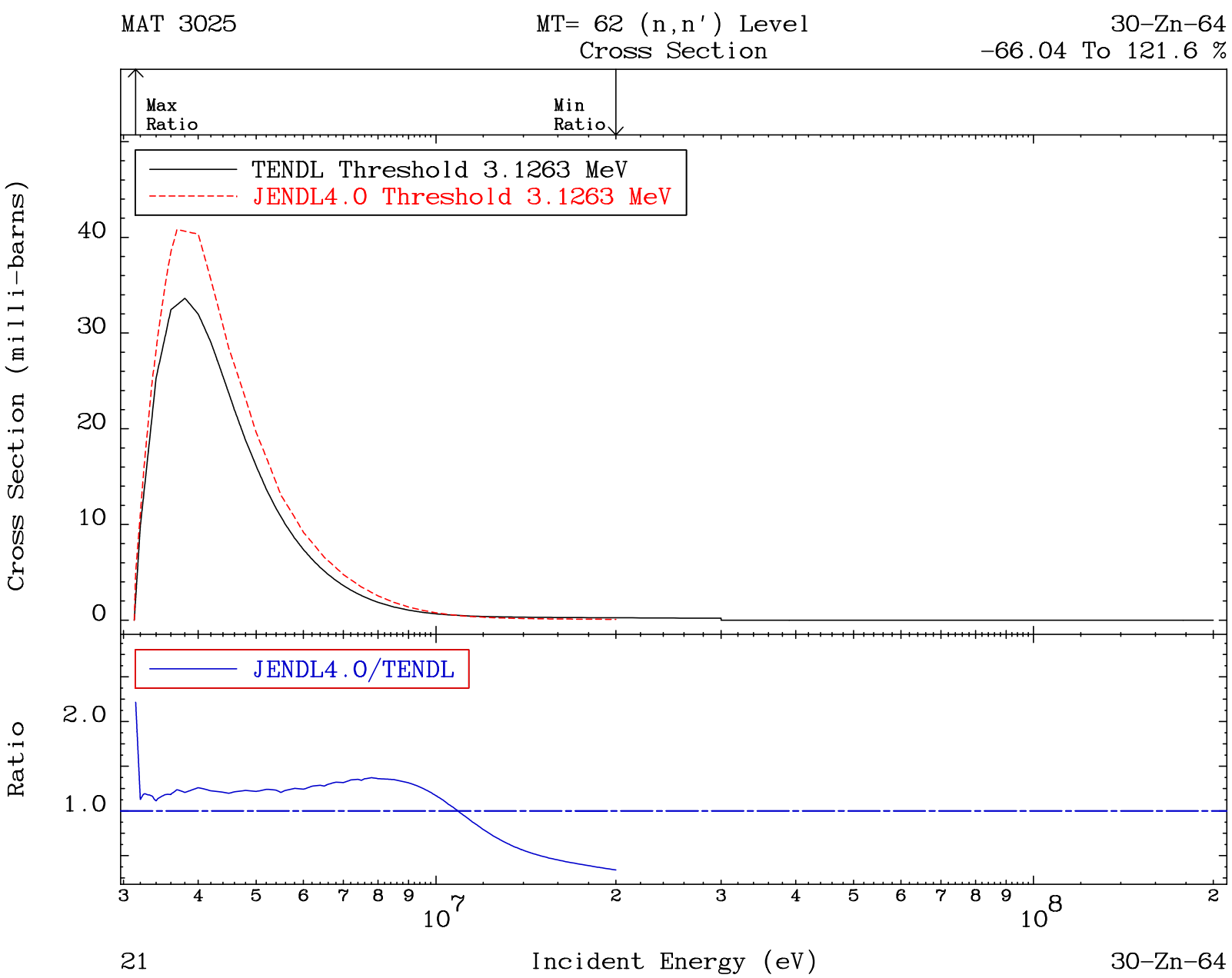

MAT 3025
MT= 57 (n,n') Level
Cross Section
30-Zn-64
10.35 To 177.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.8378 MeV
JENDL4.0 Threshold 2.8378 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
30-Zn-64

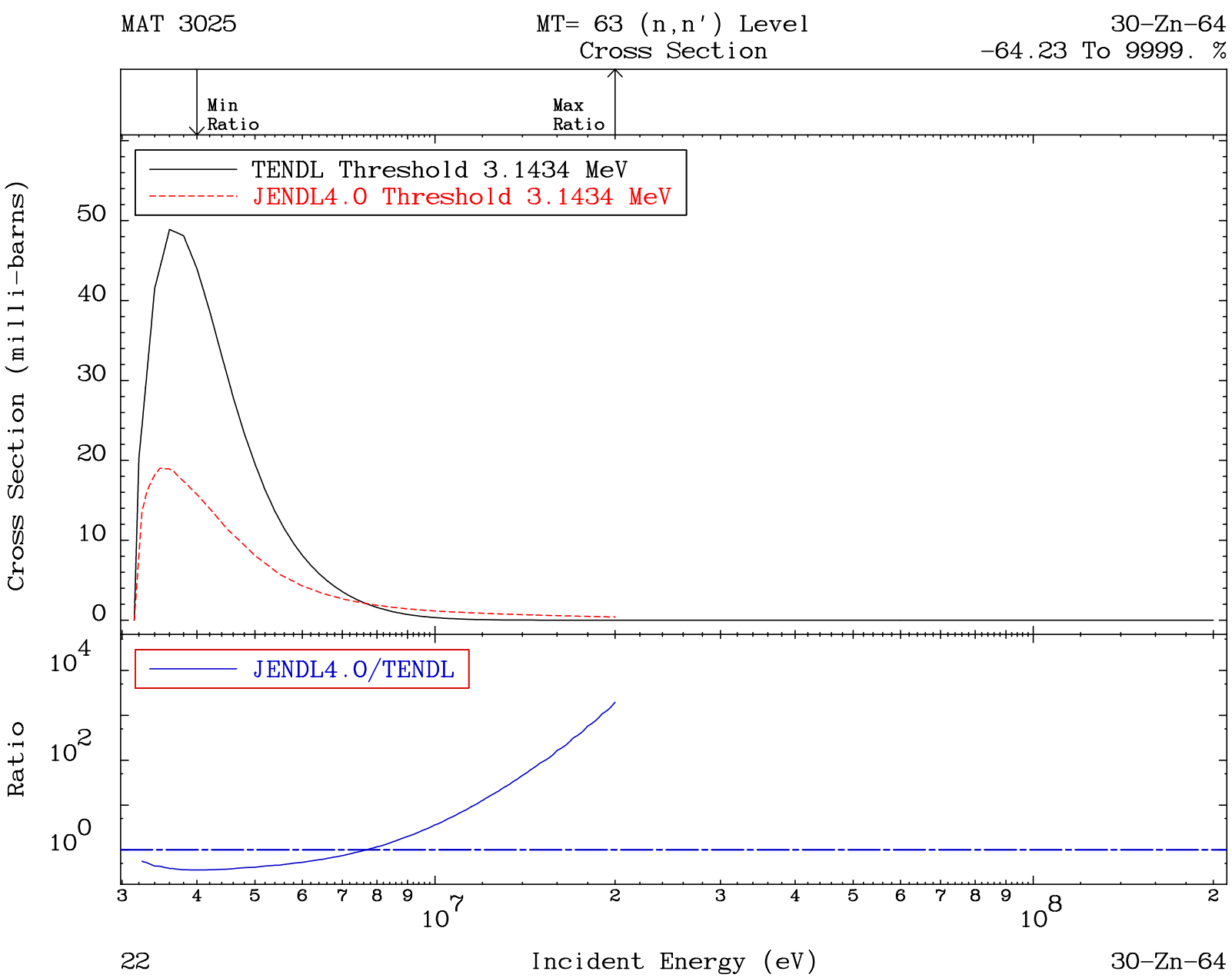

MAT 3025
MT= 58 (n,n') Level
Cross Section
30-Zn-64
14.99 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0268 MeV
JENDL4.0 Threshold 3.0268 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
17
Incident Energy (eV)
30-Zn-64

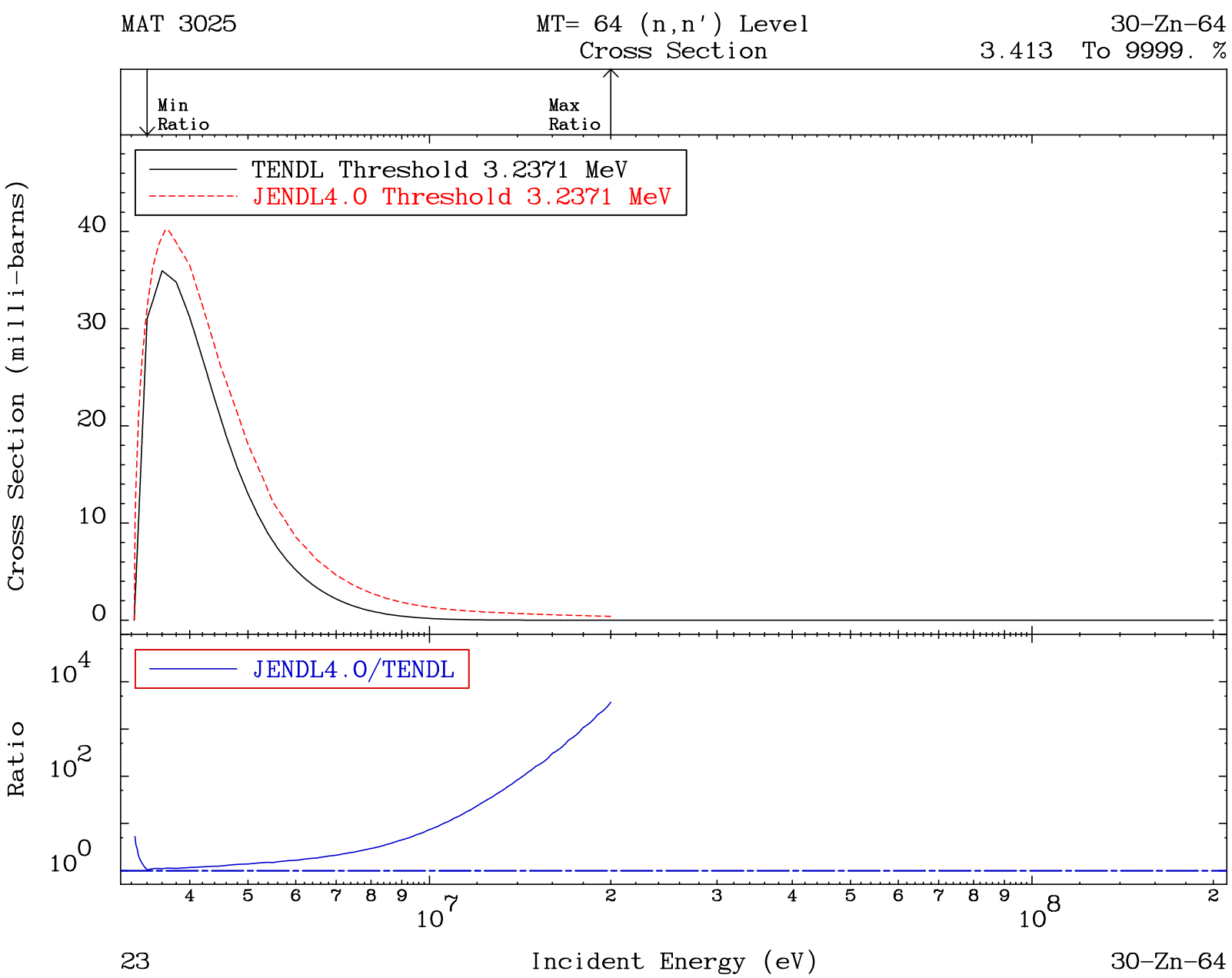

MAT 3025
MT= 59 (n,n') Level
Cross Section
30-Zn-64
-6.076 To 706.4 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0459 MeV
JENDL4.0 Threshold 3.0459 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
8
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
30-Zn-64

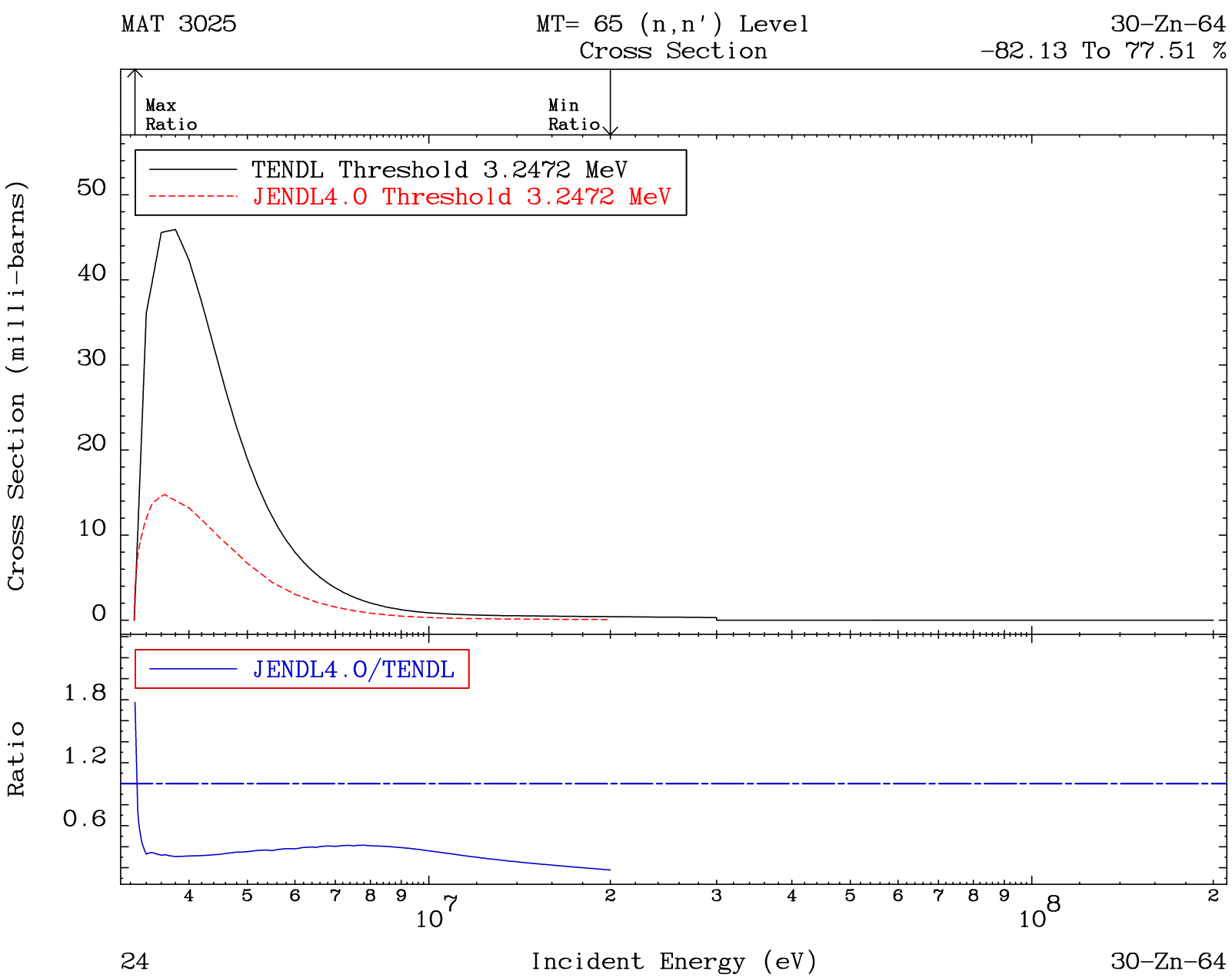

MAT 3025
MT= 60 (n,n') Level
Cross Section
30-Zn-64
-39.16 To 79.93 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0531 MeV
JENDL4.0 Threshold 3.0531 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
0.8
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
30-Zn-64

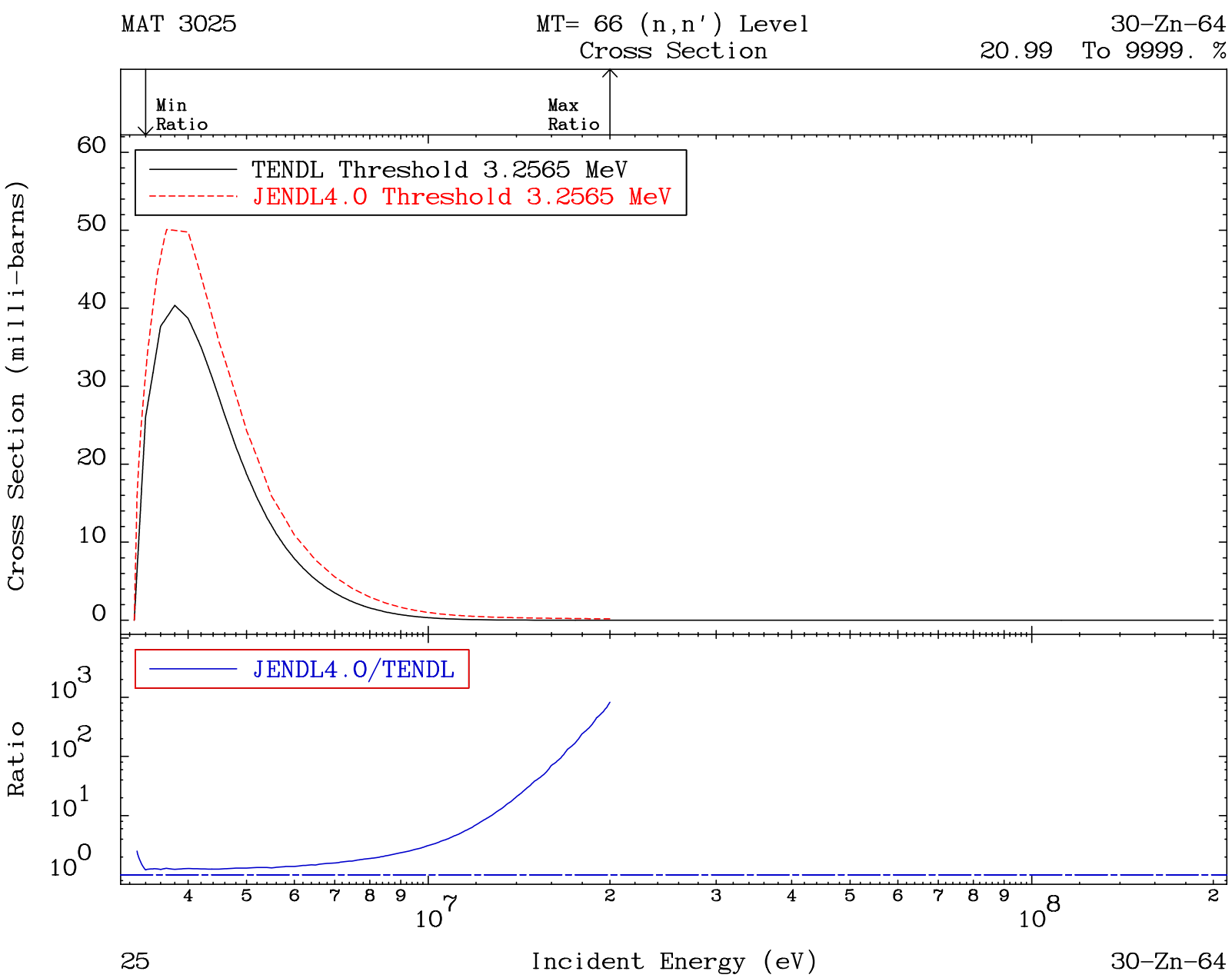

MAT 3025
MT= 61 (n,n') Level
Cross Section
30-Zn-64
-67.99 To 55.81 %
Min
Ratio
TENDL Threshold 3.1197 MeV
JENDL4.0 Threshold 3.1197 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
30-Zn-64

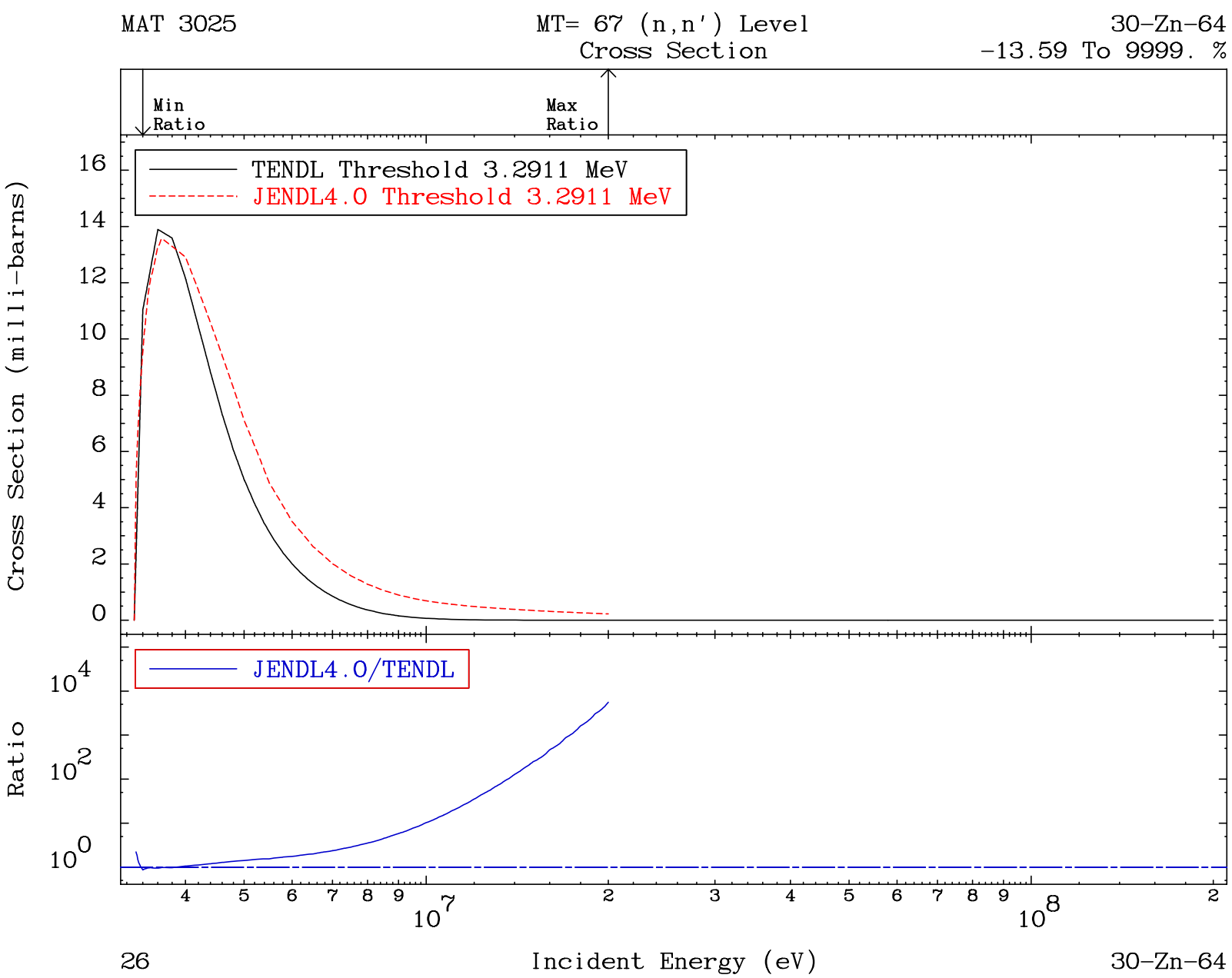

MAT 3025
MT= 62 (n,n') Level
Cross Section
30-Zn-64
-66.04 To 121.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.1263 MeV
JENDL4.0 Threshold 3.1263 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
2.0
1.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
21
Incident Energy (eV)
30-Zn-64

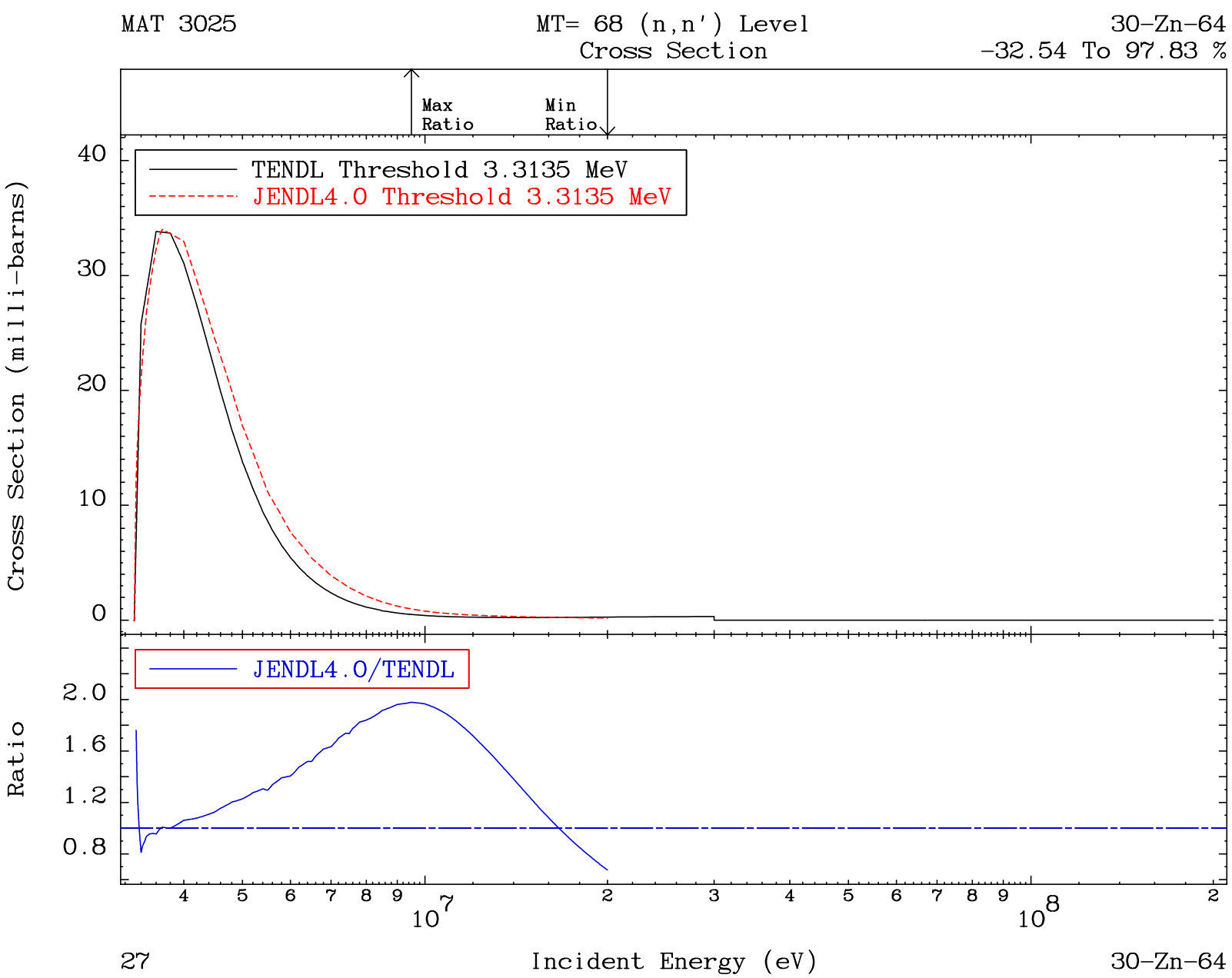

MAT 3025
MT= 63 (n,n') Level
Cross Section
30-Zn-64
-64.23 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 3.1434 MeV
JENDL4.0 Threshold 3.1434 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
30-Zn-64

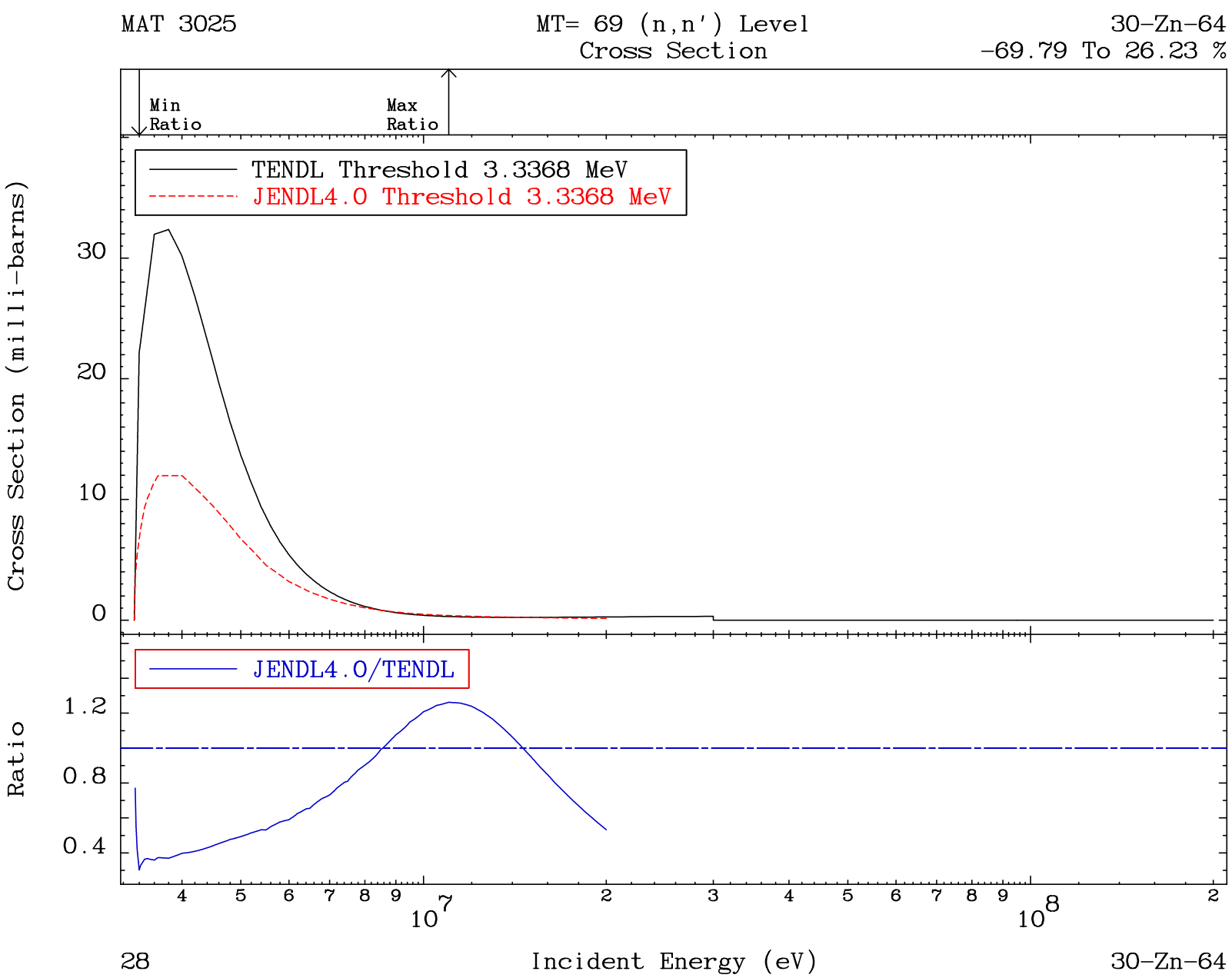

MAT 3025
MT= 64 (n,n') Level
Cross Section
30-Zn-64
3.413 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.2371 MeV
JENDL4.0 Threshold 3.2371 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
30-Zn-64

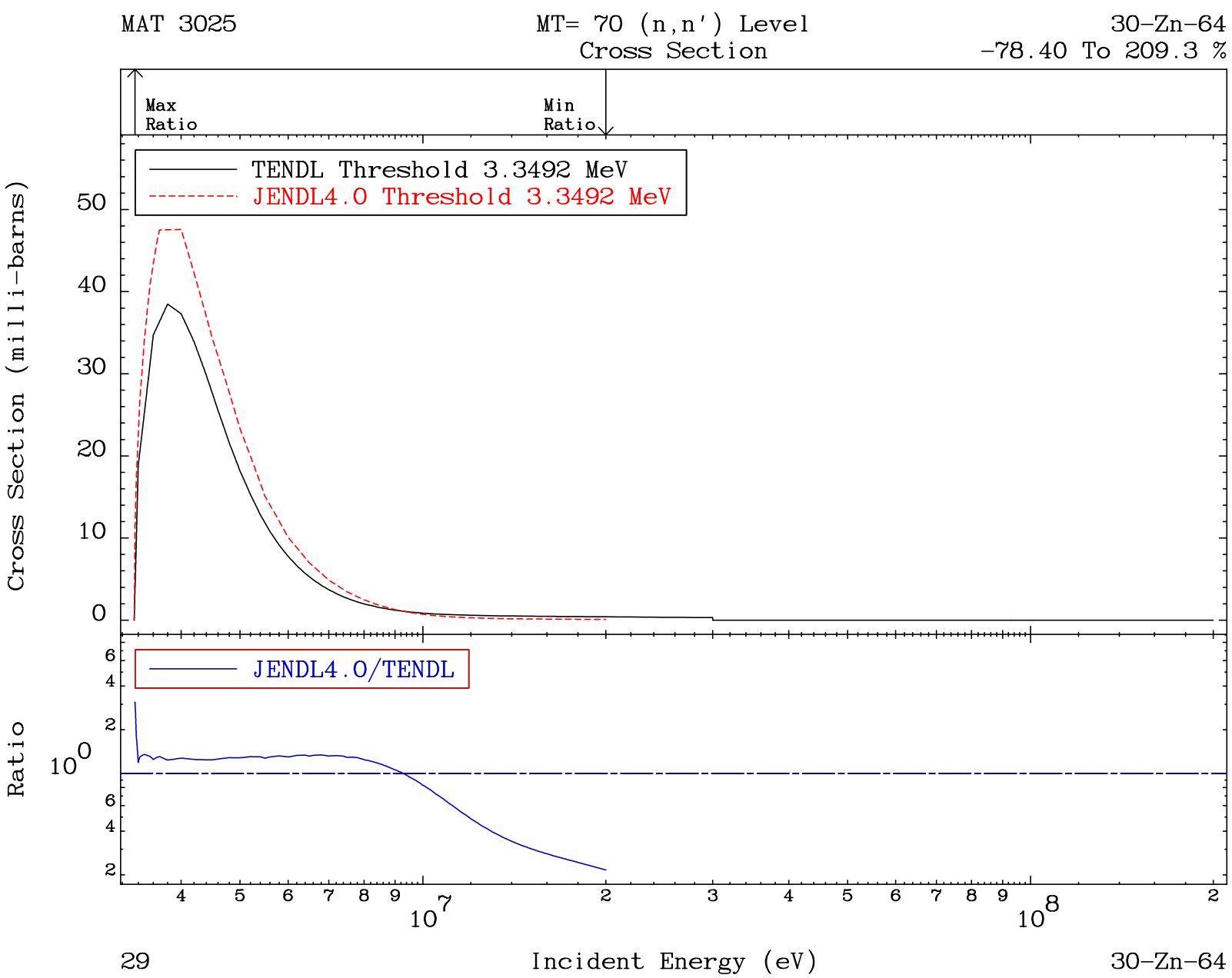

MAT 3025
MT= 65 (n,n') Level
Cross Section
30-Zn-64
-82.13 To 77.51 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.2472 MeV
JENDL4.0 Threshold 3.2472 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.8
1.2
0.6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
30-Zn-64

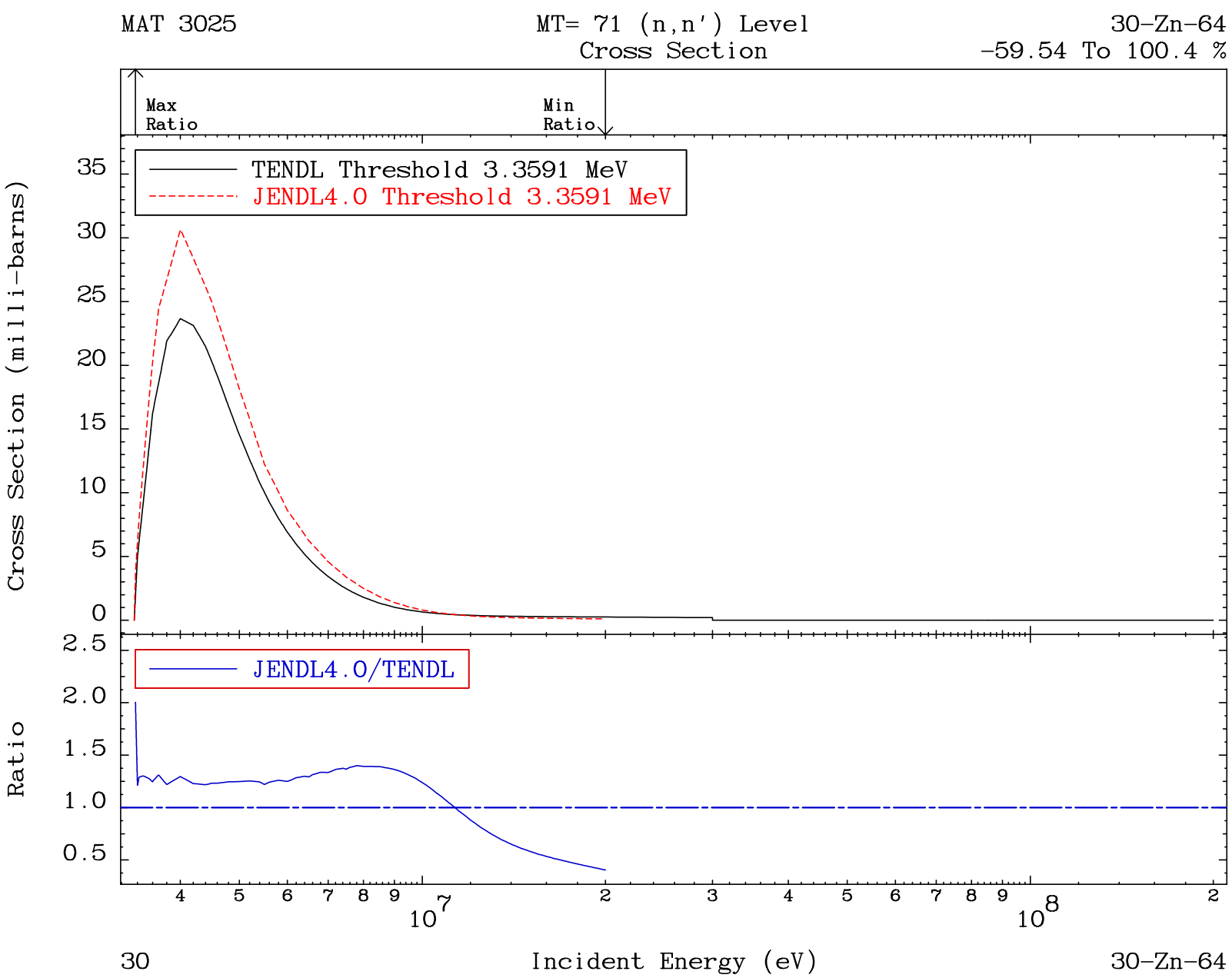

MAT 3025
MT= 66 (n,n') Level
Cross Section
30-Zn-64
20.99 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.2565 MeV
JENDL4.0 Threshold 3.2565 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
25
30-Zn-64

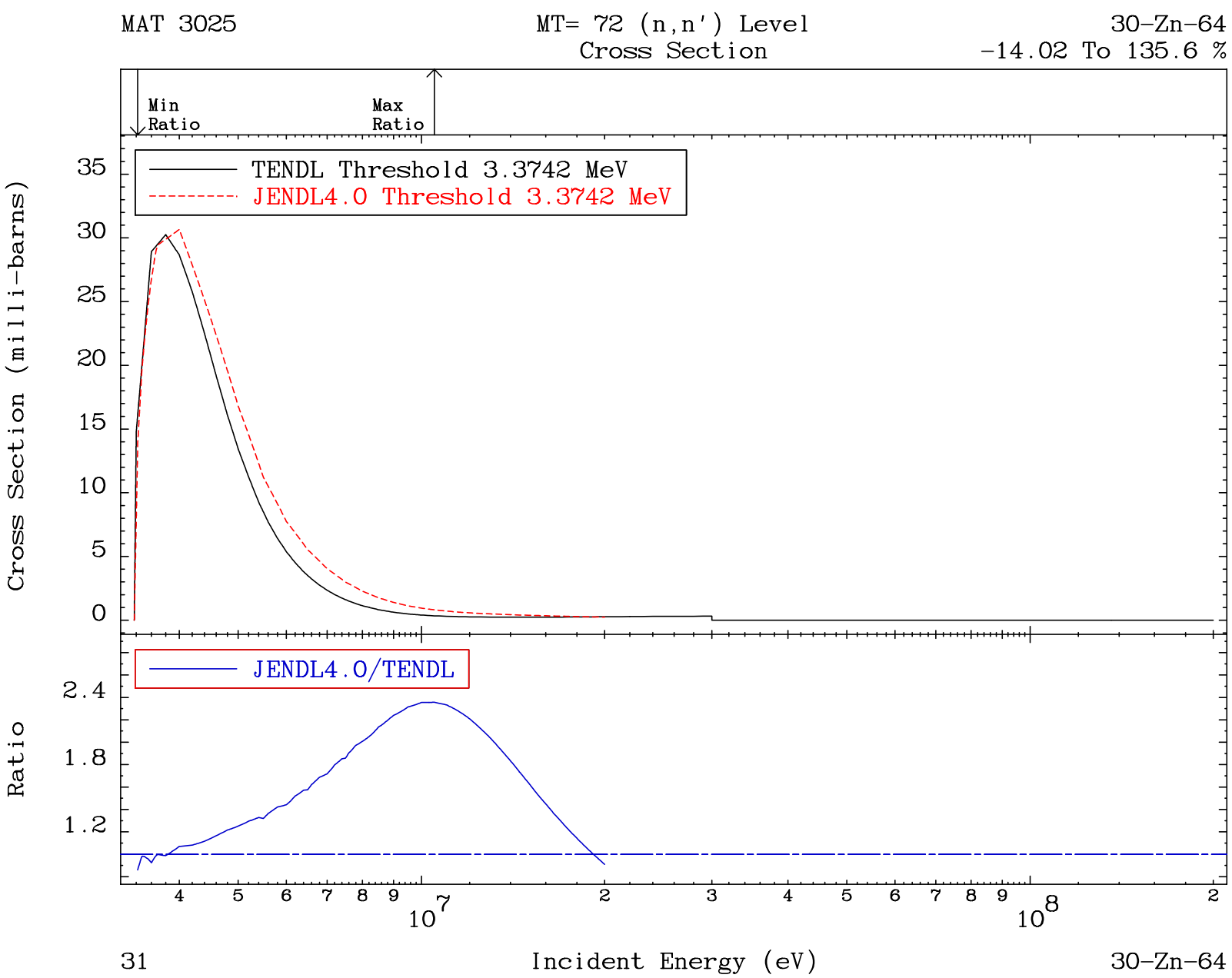

MAT 3025
MT= 67 (n,n') Level
Cross Section
30-Zn-64
-13.59 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 3.2911 MeV
JENDL4.0 Threshold 3.2911 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
26
Incident Energy (eV)
30-Zn-64

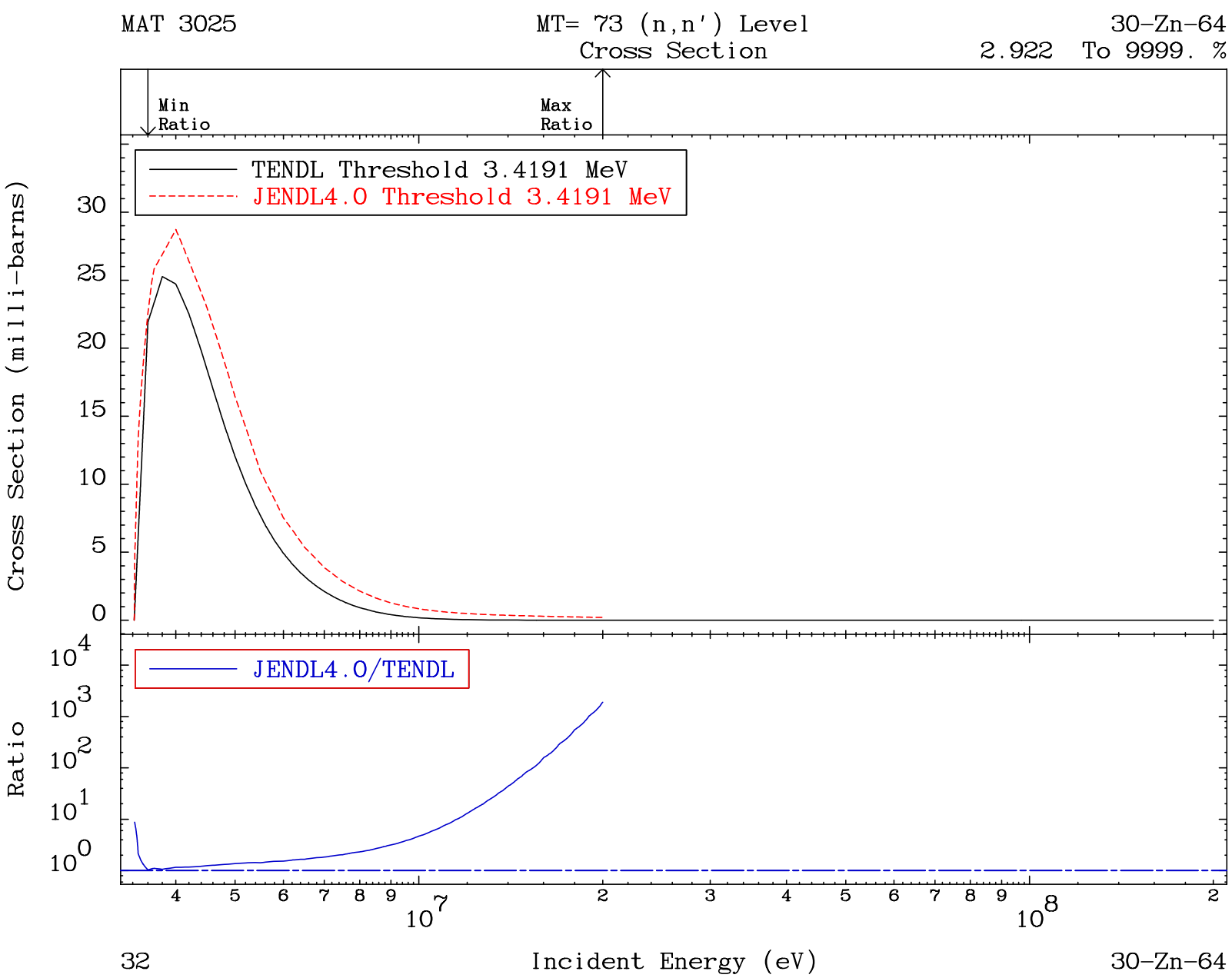

MAT 3025
MT= 68 (n,n') Level
Cross Section
30-Zn-64
-32.54 To 97.83 %
Max Ratio
Min Ratio
TENDL Threshold 3.3135 MeV
JENDL4.0 Threshold 3.3135 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
30-Zn-64

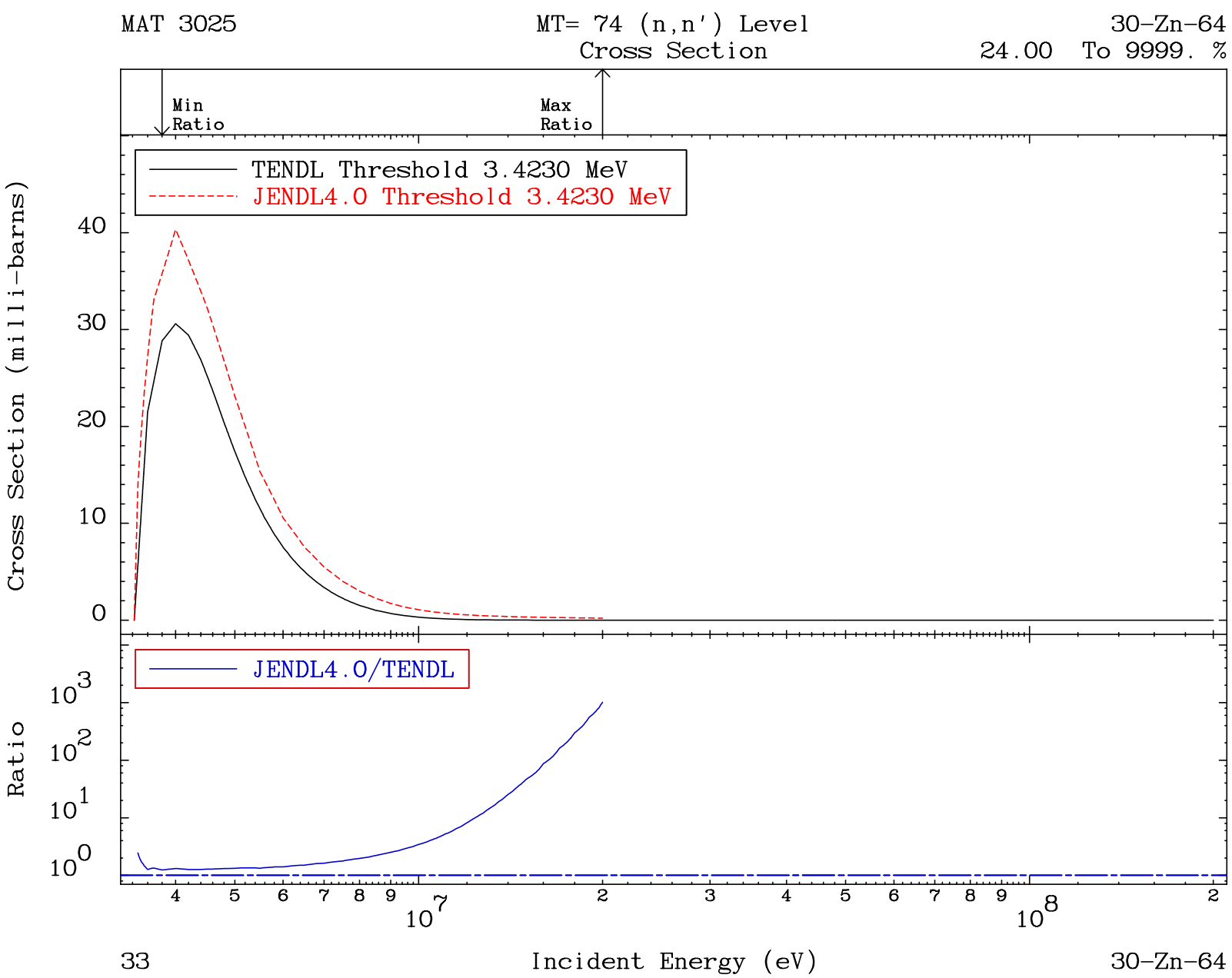

MAT 3025
MT= 69 (n,n') Level
Cross Section
30-Zn-64
-69.79 To 26.23 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.3368 MeV
JENDL4.0 Threshold 3.3368 MeV
Cross Section (milli-barns)
30
20
10
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
28
Incident Energy (eV)
30-Zn-64

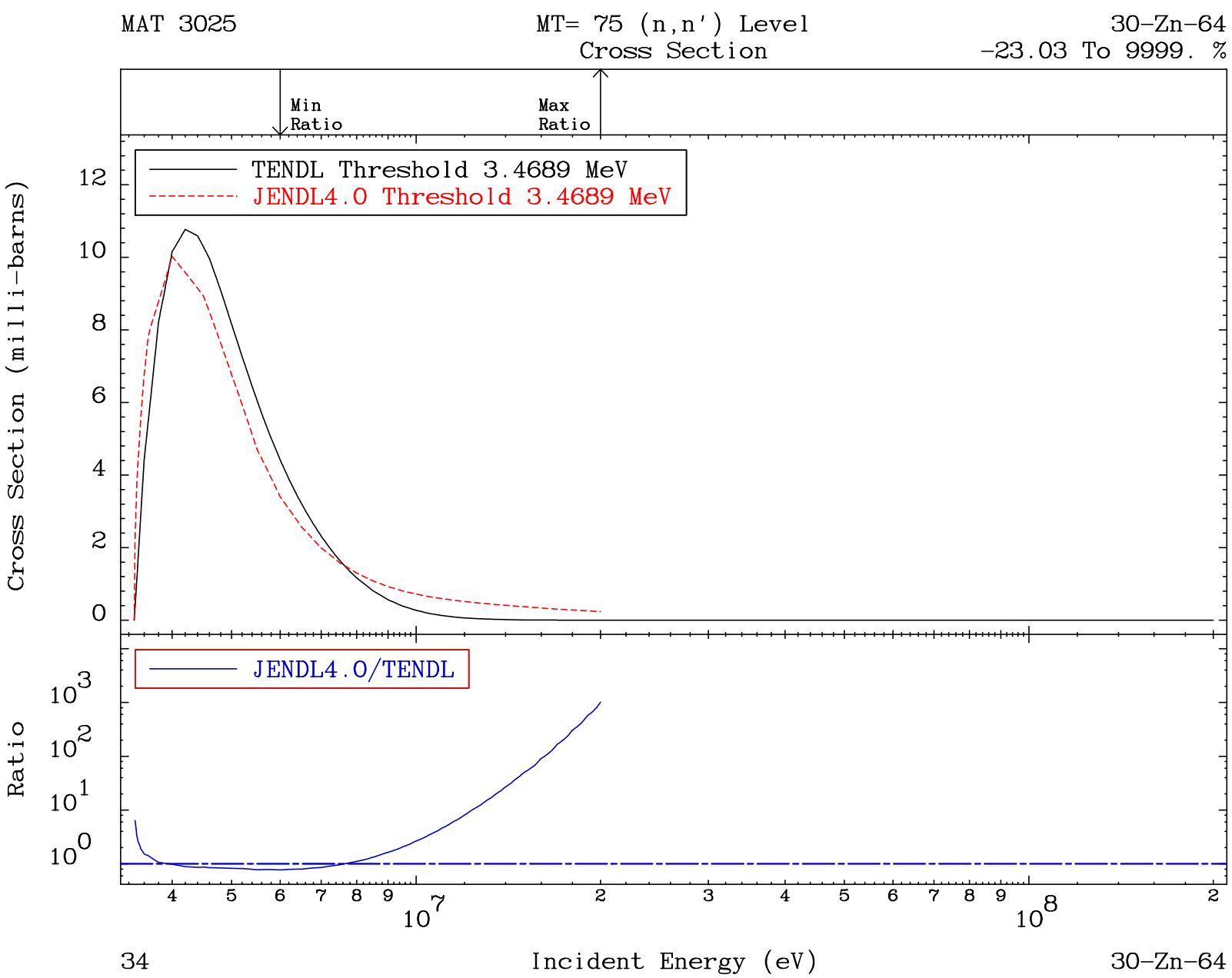

MAT 3025
MT= 70 (n,n') Level
Cross Section
30-Zn-64
-78.40 To 209.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.3492 MeV
JENDL4.0 Threshold 3.3492 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^7
10^8
29
Incident Energy (eV)
30-Zn-64

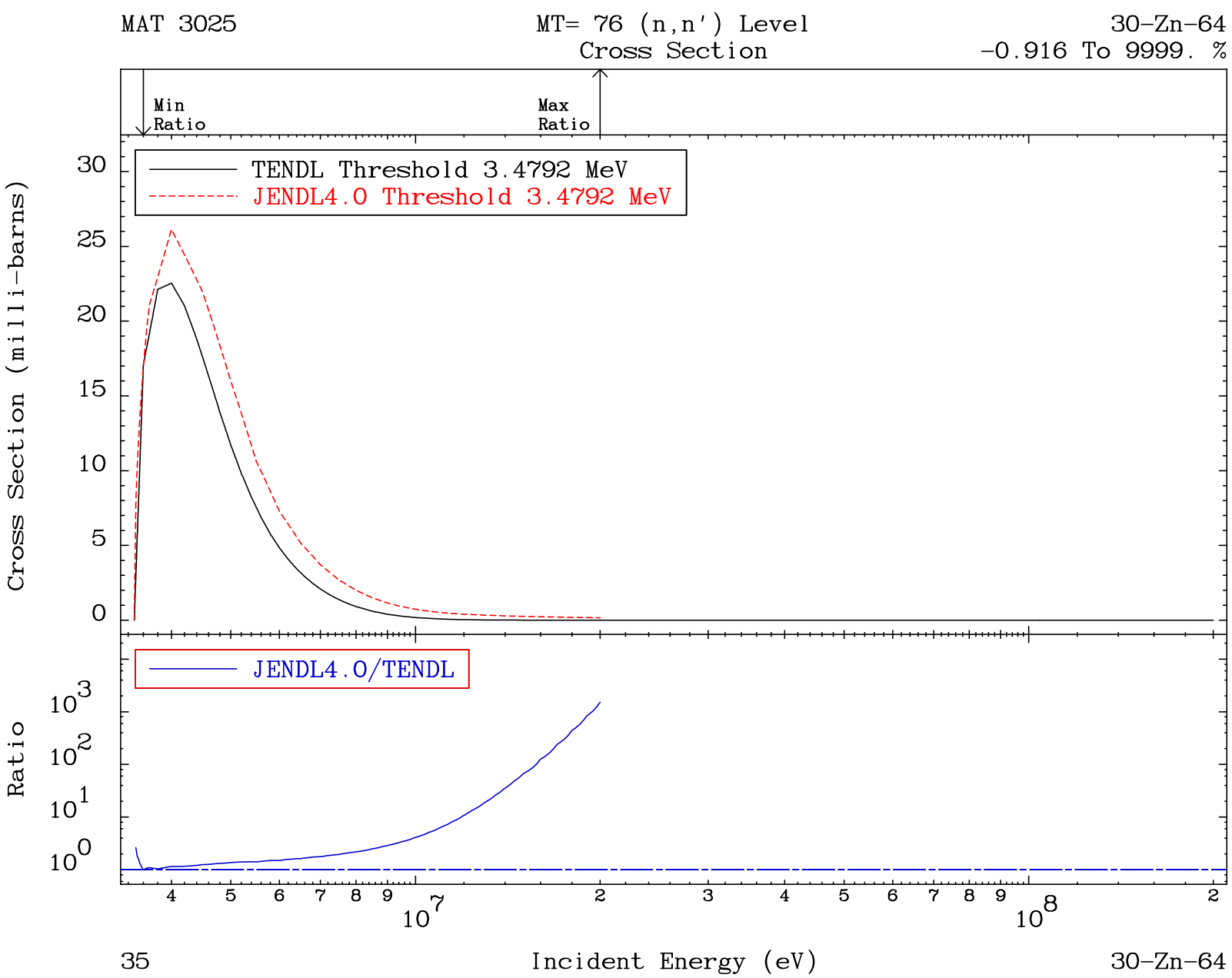

MAT 3025
MT= 71 (n,n') Level
Cross Section
30-Zn-64
-59.54 To 100.4 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.3591 MeV
JENDL4.0 Threshold 3.3591 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
2.5
2.0
1.5
1.0
0.5
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
30-Zn-64

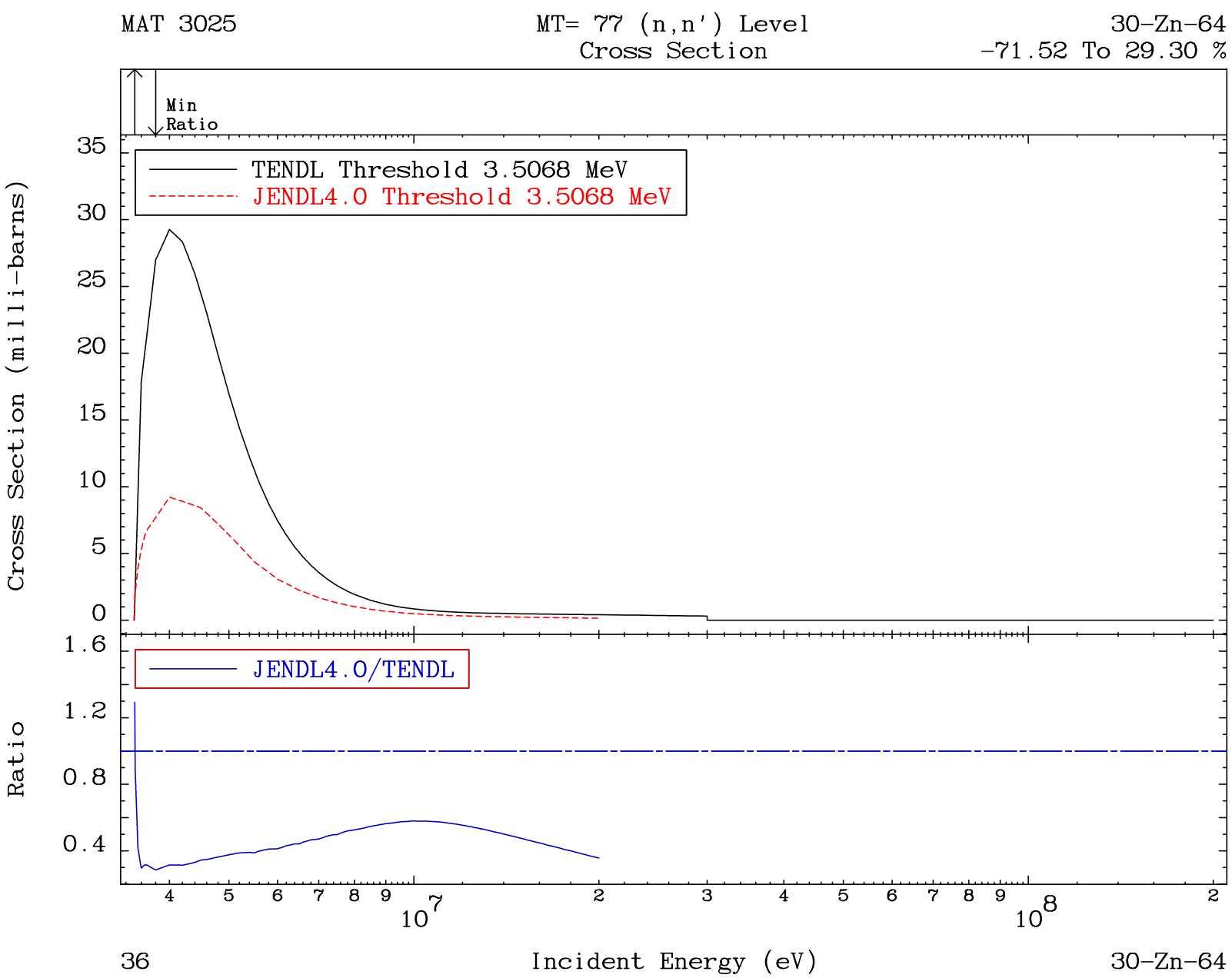

MAT 3025
MT= 72 (n,n') Level
Cross Section
30-Zn-64
-14.02 To 135.6 %
Min Ratio
Max Ratio
TENDL Threshold 3.3742 MeV
JENDL4.0 Threshold 3.3742 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
31
30-Zn-64

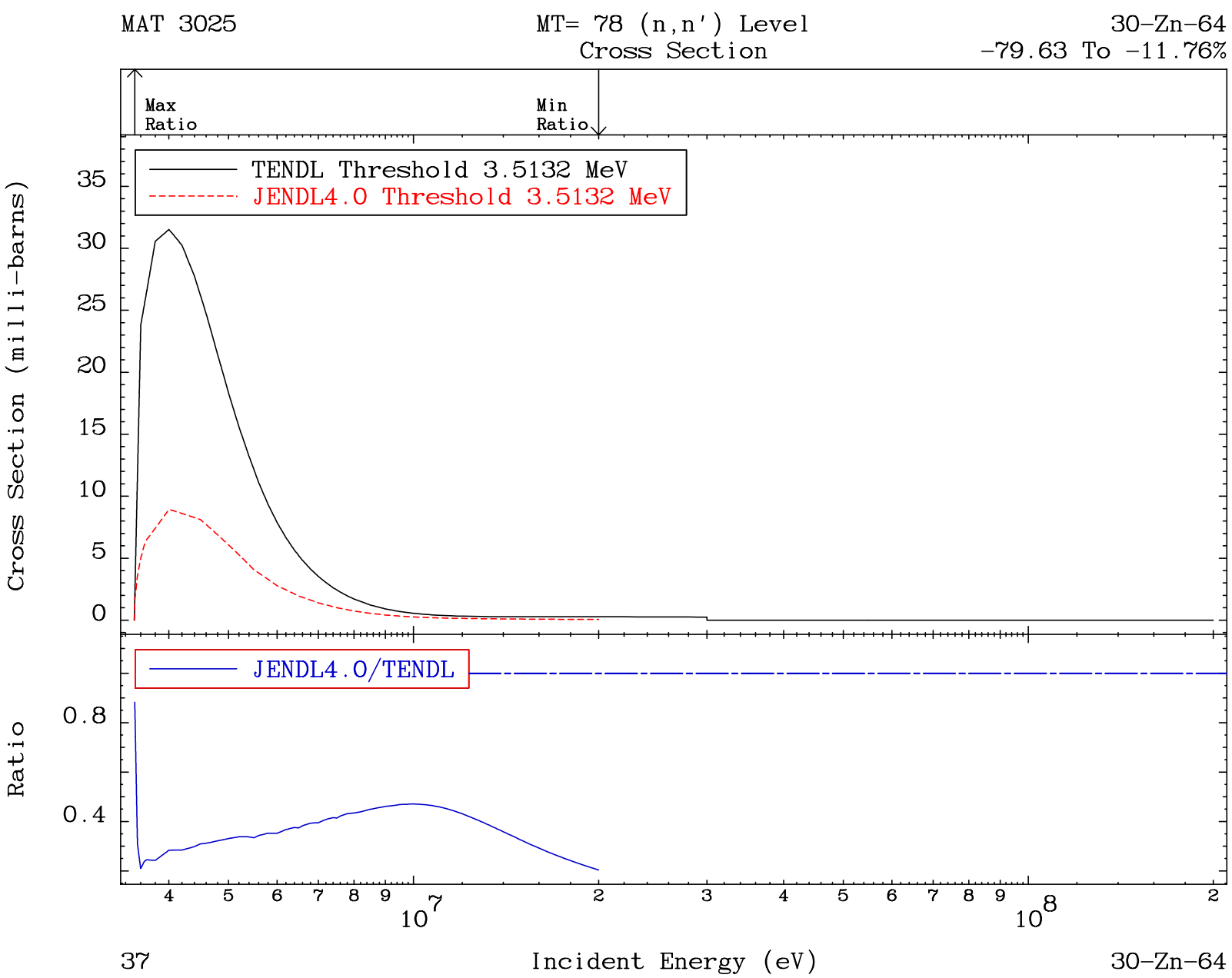

MAT 3025
MT= 73 (n,n') Level
Cross Section
30-Zn-64
2.922 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.4191 MeV
JENDL4.0 Threshold 3.4191 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
30-Zn-64

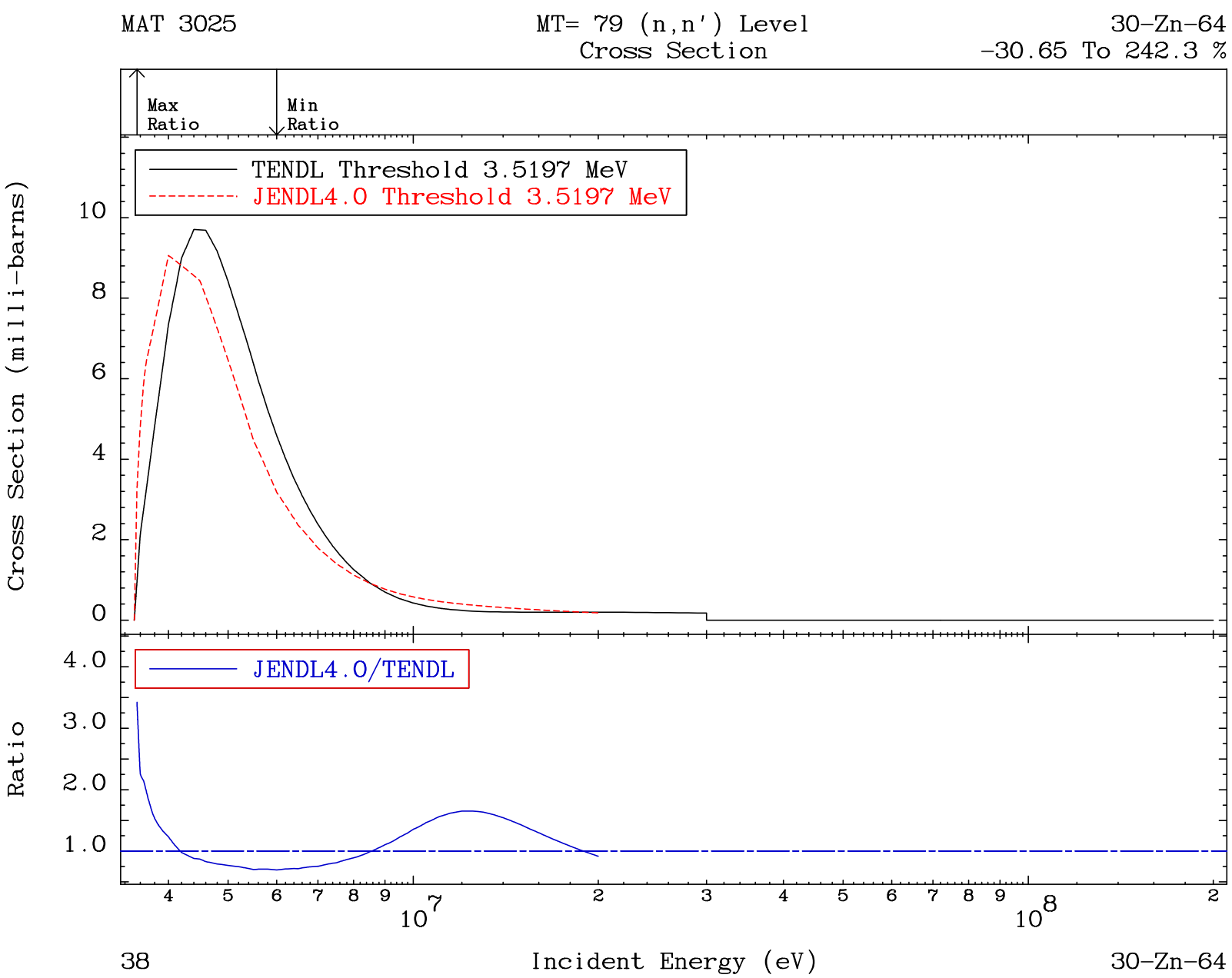

MAT 3025
MT= 74 (n,n') Level
Cross Section
30-Zn-64
24.00 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.4230 MeV
JENDL4.0 Threshold 3.4230 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
30-Zn-64

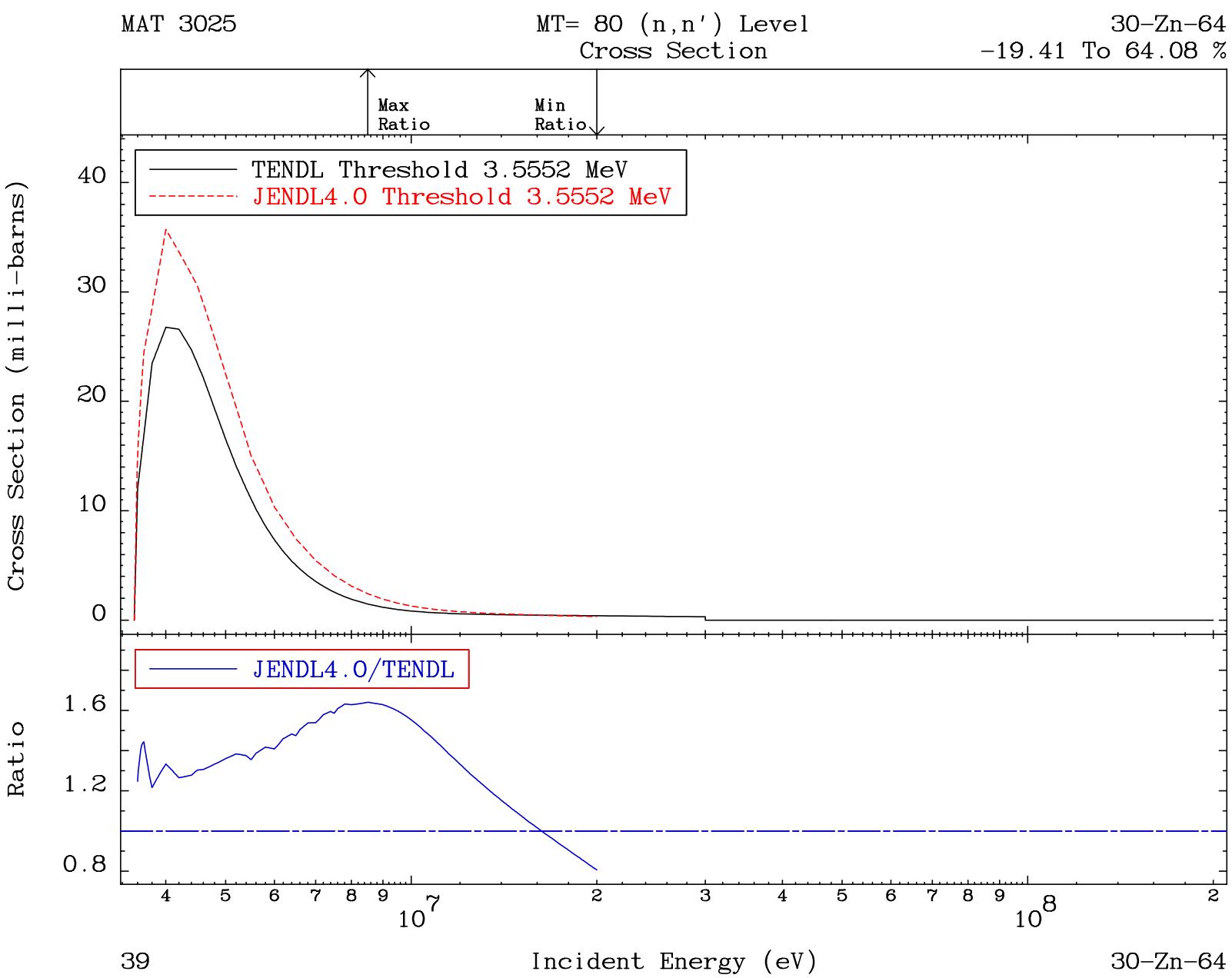

MAT 3025
MT= 75 (n,n') Level
Cross Section
30-Zn-64
-23.03 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 3.4689 MeV
JENDL4.0 Threshold 3.4689 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
34
Incident Energy (eV)
30-Zn-64

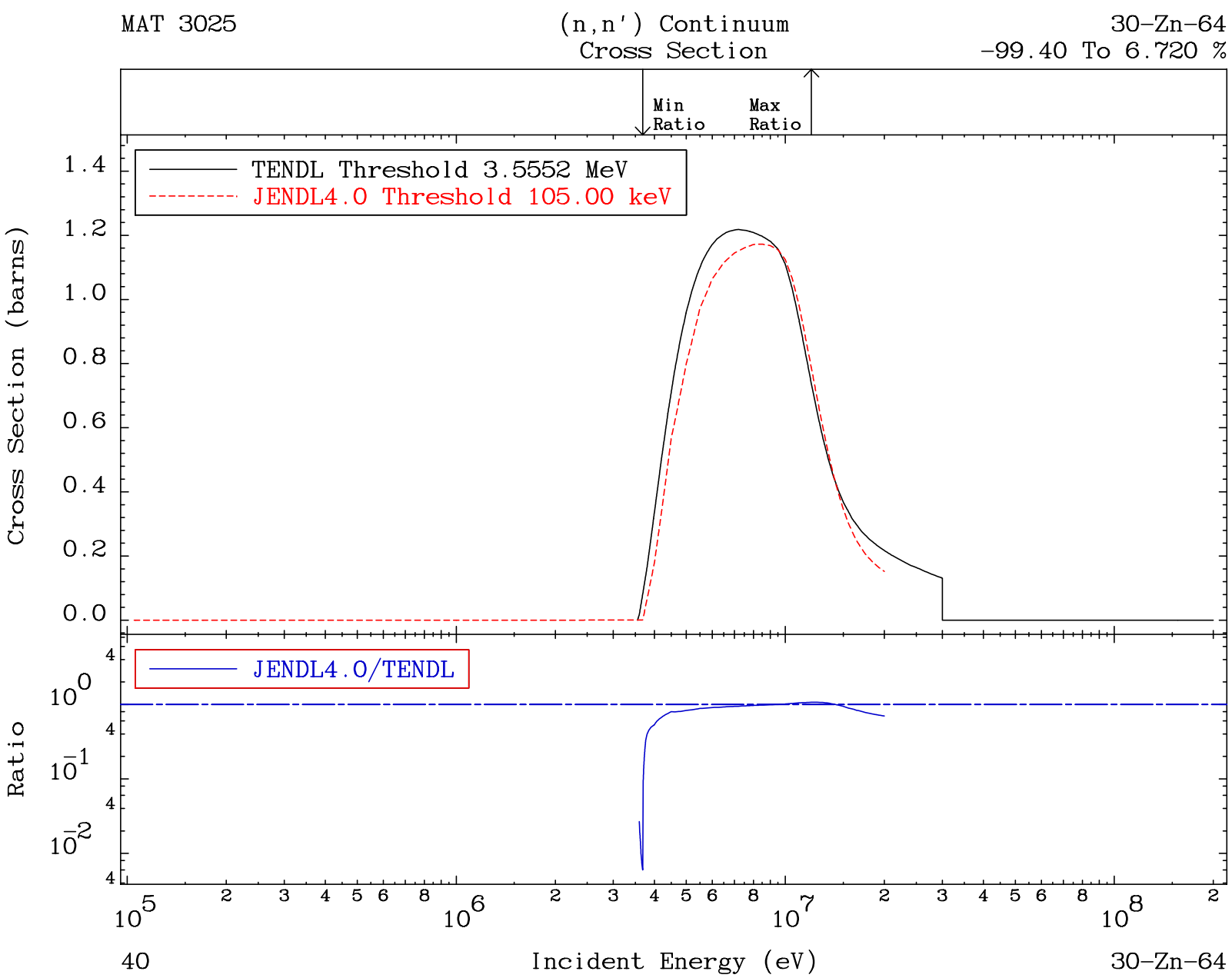

MAT 3025
MT= 76 (n,n') Level
Cross Section
30-Zn-64
-0.916 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 3.4792 MeV
JENDL4.0 Threshold 3.4792 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
30-Zn-64

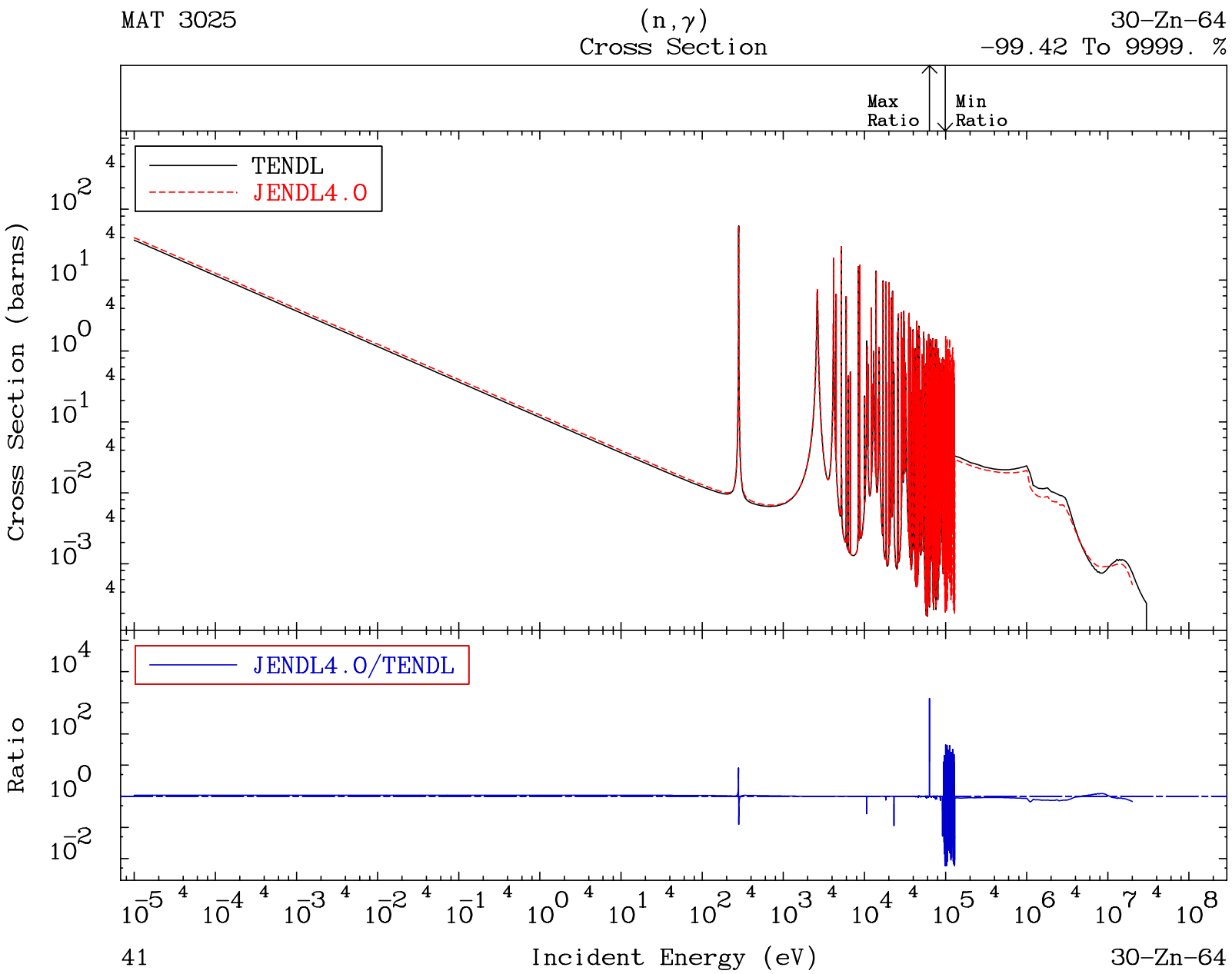

MAT 3025
MT= 77 (n,n') Level
Cross Section
30-Zn-64
-71.52 To 29.30 %
Min
Ratio
TENDL Threshold 3.5068 MeV
JENDL4.0 Threshold 3.5068 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
30-Zn-64

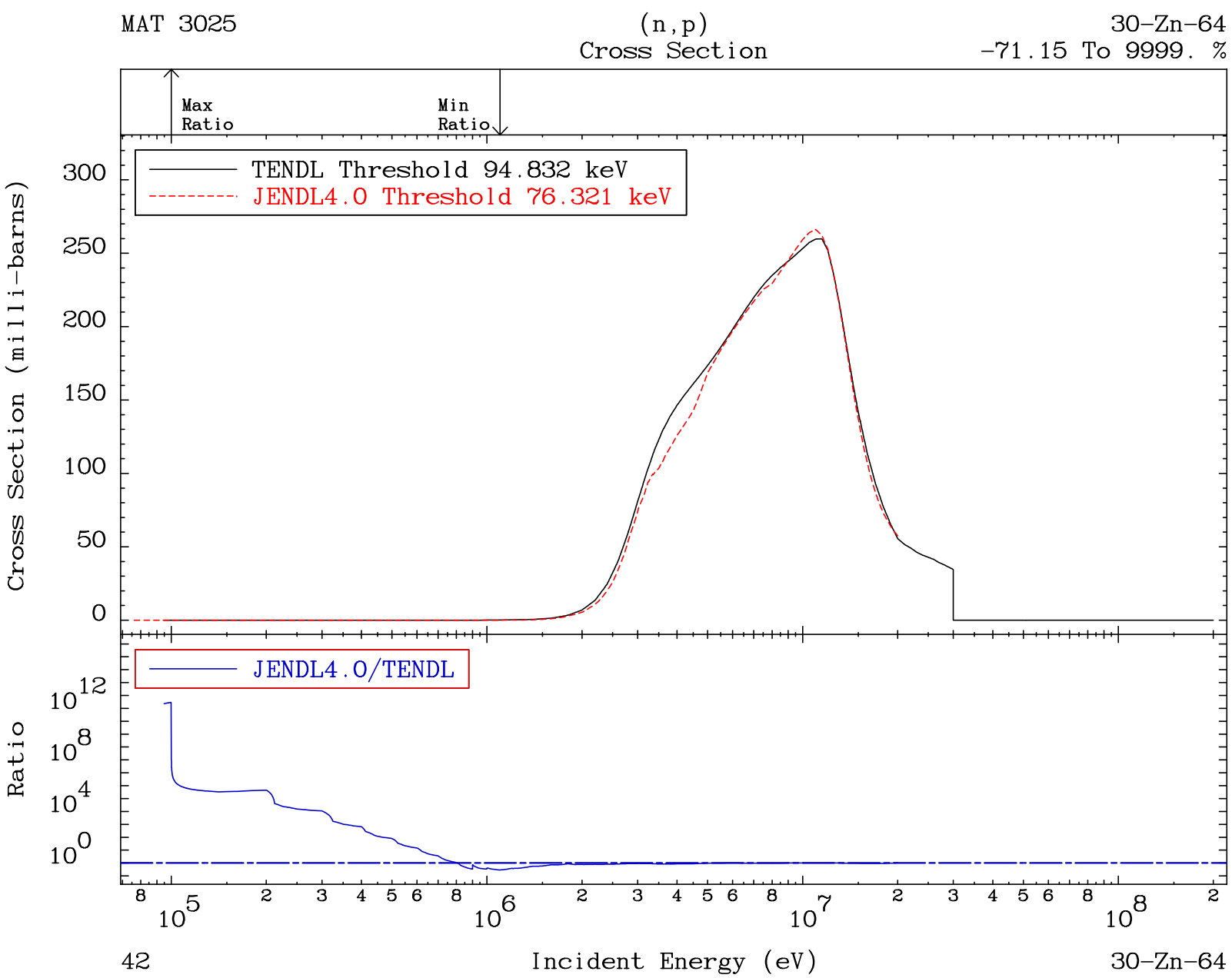

MAT 3025
MT= 78 (n,n') Level
Cross Section
30-Zn-64
-79.63 To -11.76%
Max
Ratio
Min
Ratio
TENDL Threshold 3.5132 MeV
JENDL4.0 Threshold 3.5132 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
30-Zn-64

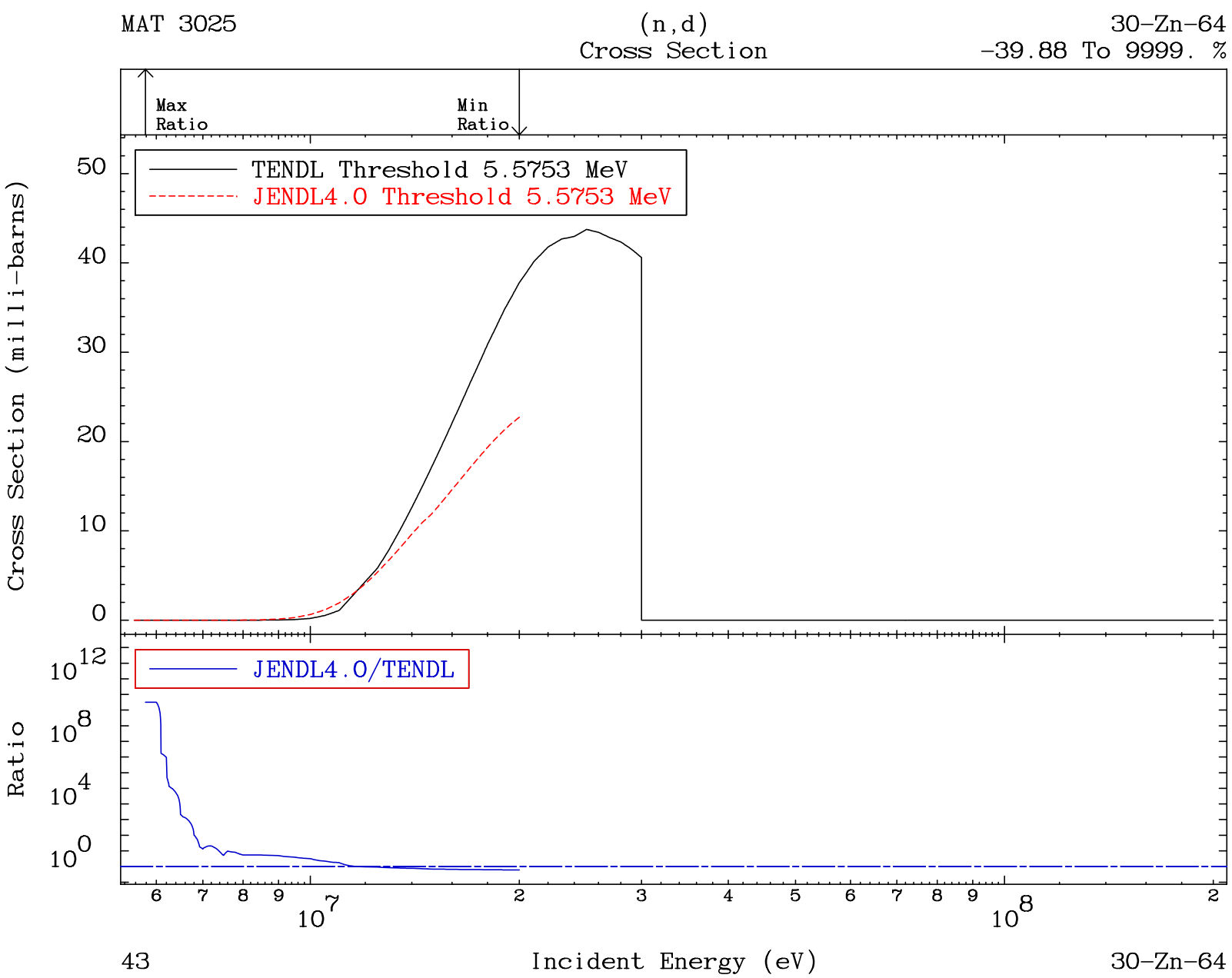

MAT 3025
MT= 79 (n,n') Level
Cross Section
30-Zn-64
-30.65 To 242.3 %
Max Ratio
Min Ratio
TENDL Threshold 3.5197 MeV
JENDL4.0 Threshold 3.5197 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
38
30-Zn-64

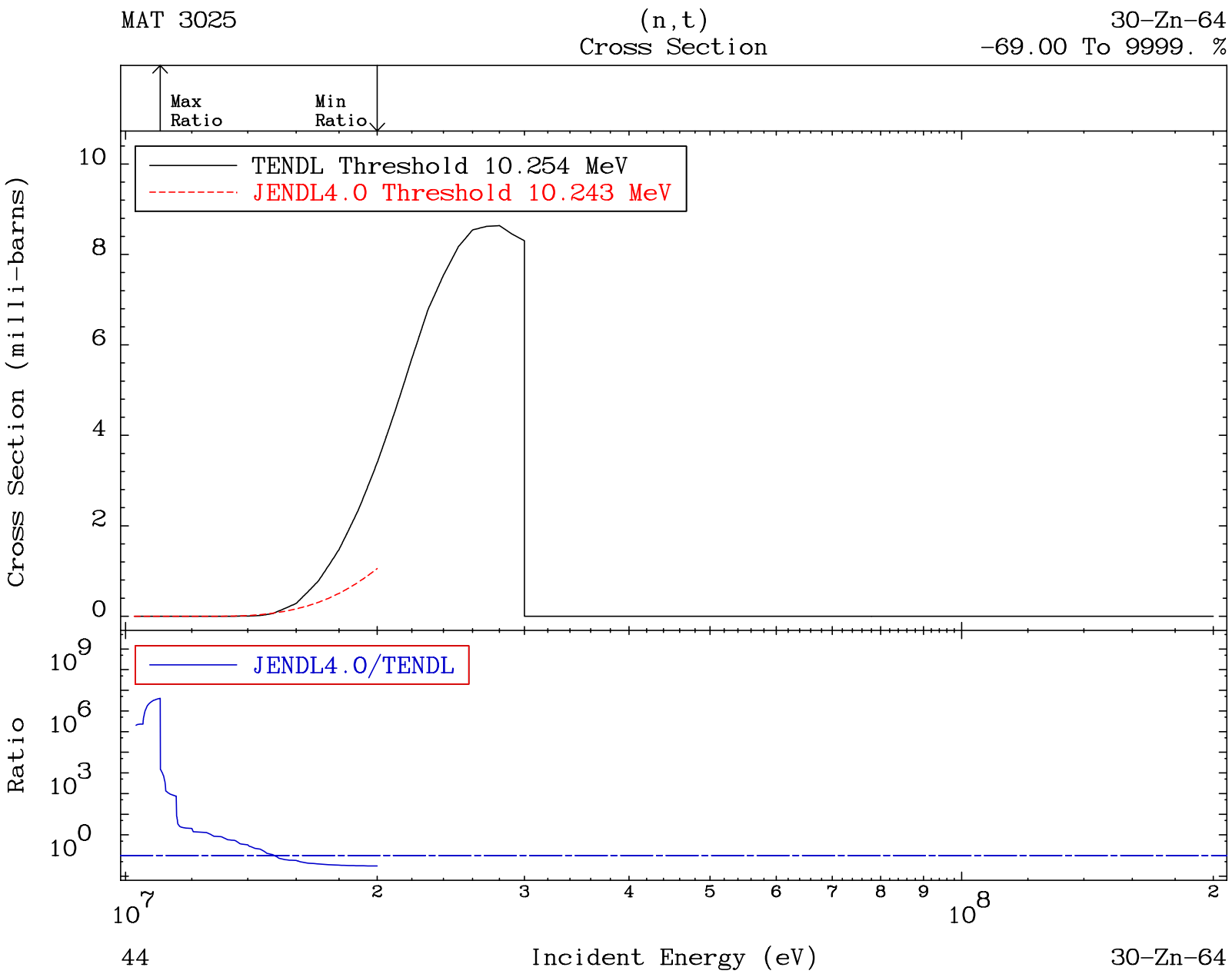

MAT 3025
MT= 80 (n,n') Level
Cross Section
30-Zn-64
-19.41 To 64.08 %
Max Ratio
Min Ratio
TENDL Threshold 3.5552 MeV
JENDL4.0 Threshold 3.5552 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
30-Zn-64

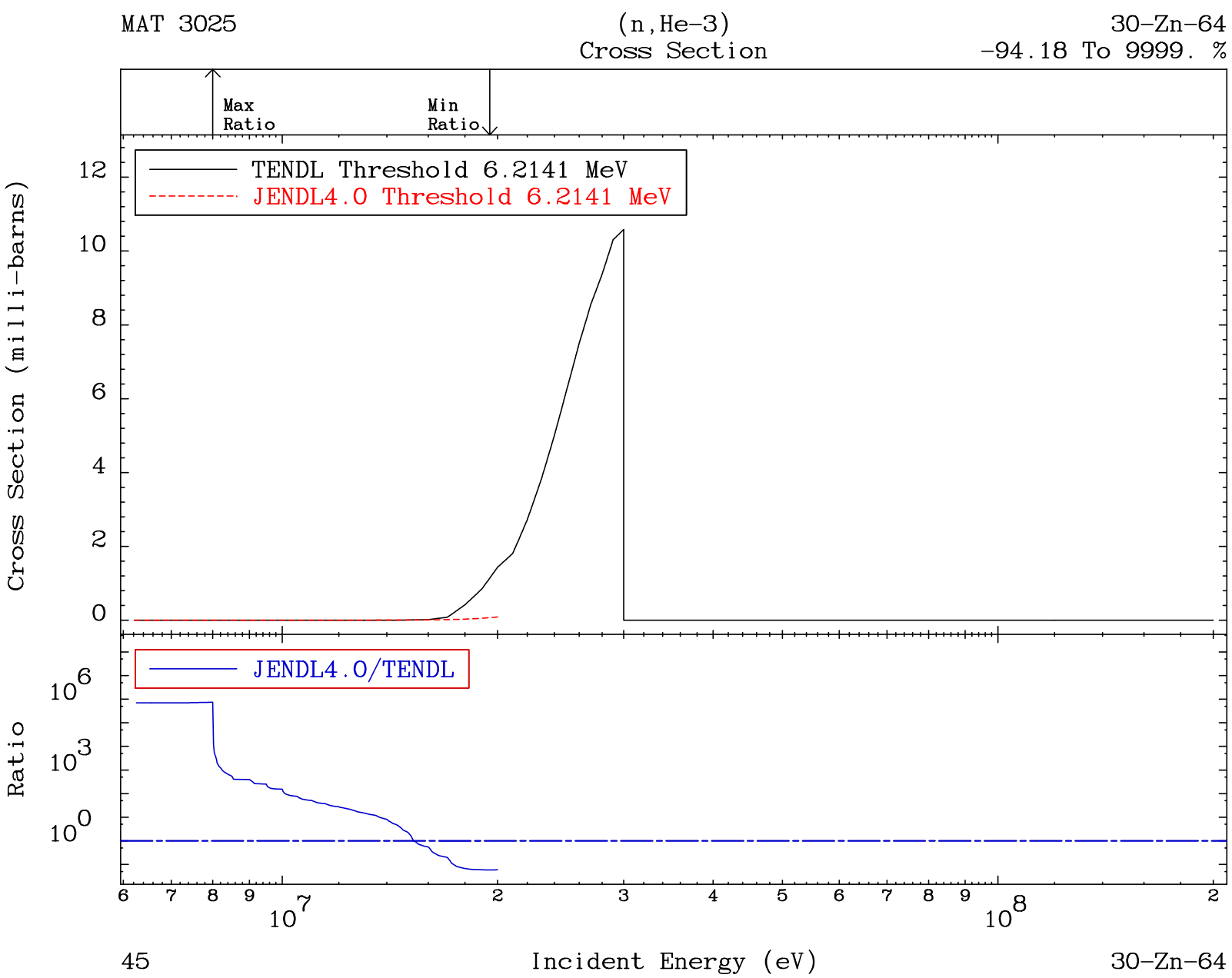

MAT 3025
(n,n') Continuum
Cross Section
30-Zn-64
-99.40 To 6.720 %
Min Ratio
Max Ratio
TENDL Threshold 3.5552 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^5
10^6
10^7
10^8
Incident Energy (eV)
40
30-Zn-64

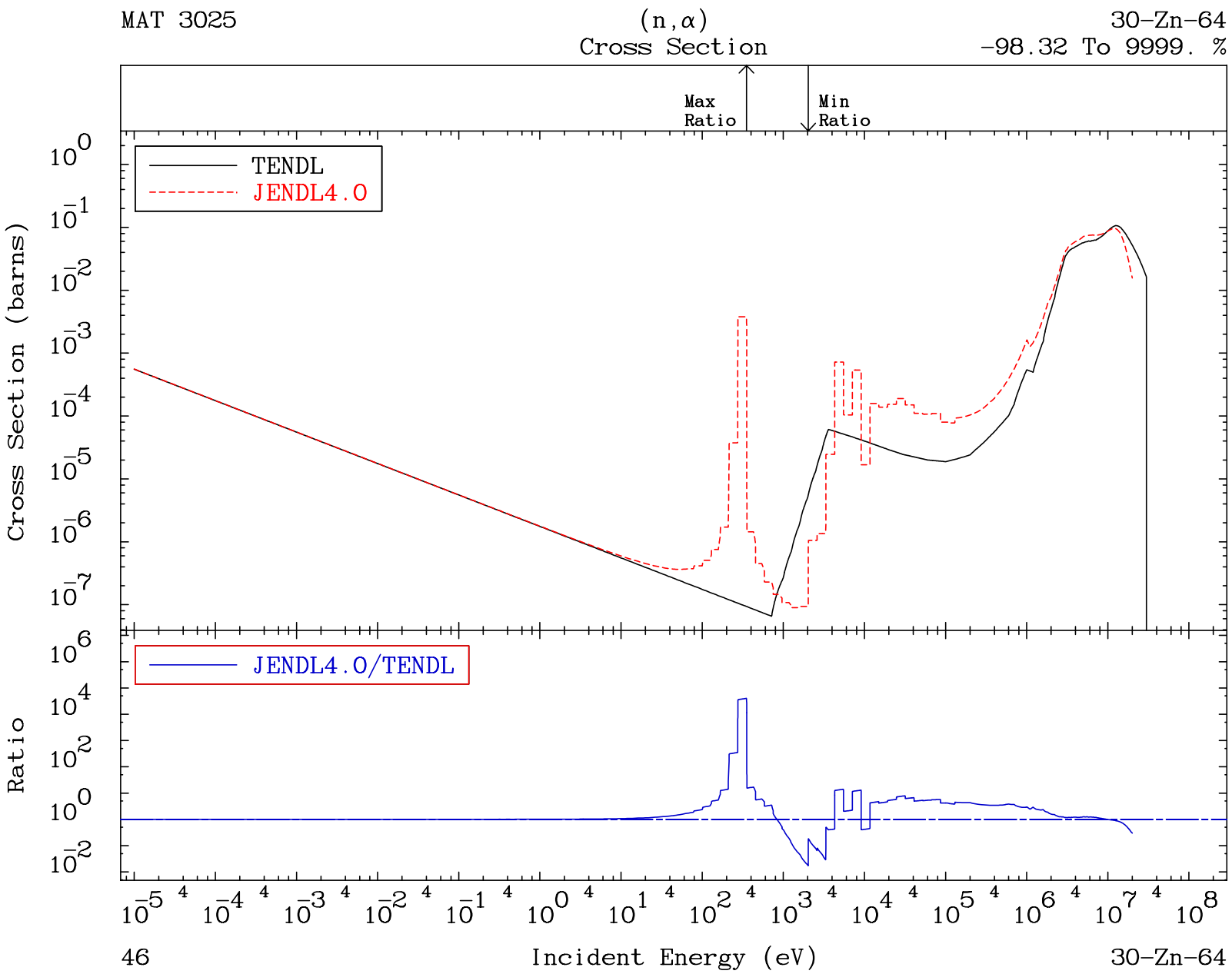

MAT 3025
(n,γ)
Cross Section
30-Zn-64
-99.42 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
41
30-Zn-64

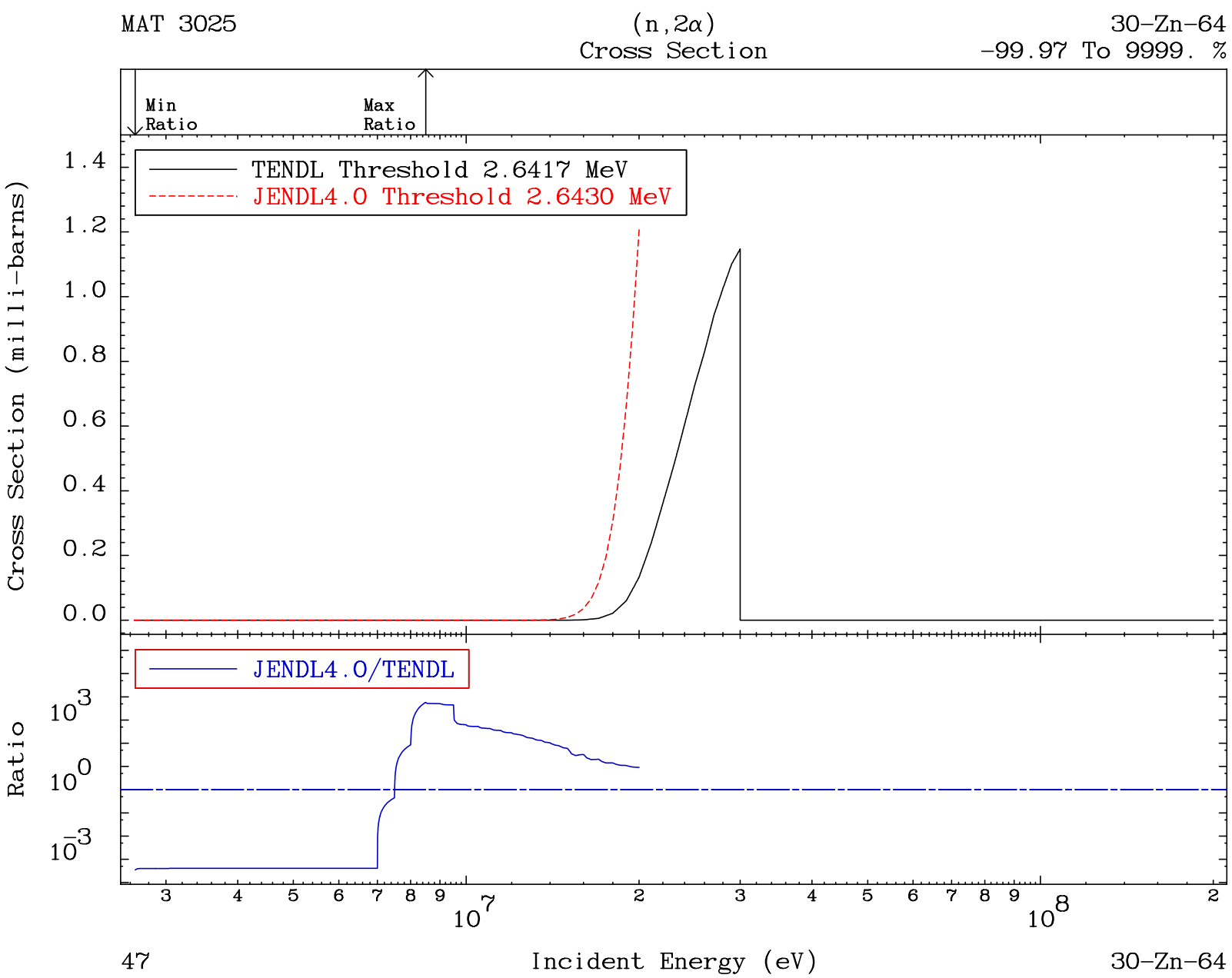

MAT 3025
(n,p)
Cross Section
30-Zn-64
-71.15 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 94.832 keV
JENDL4.0 Threshold 76.321 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^12
10^8
10^4
10^0
8
10^5
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
42
Incident Energy (eV)
30-Zn-64

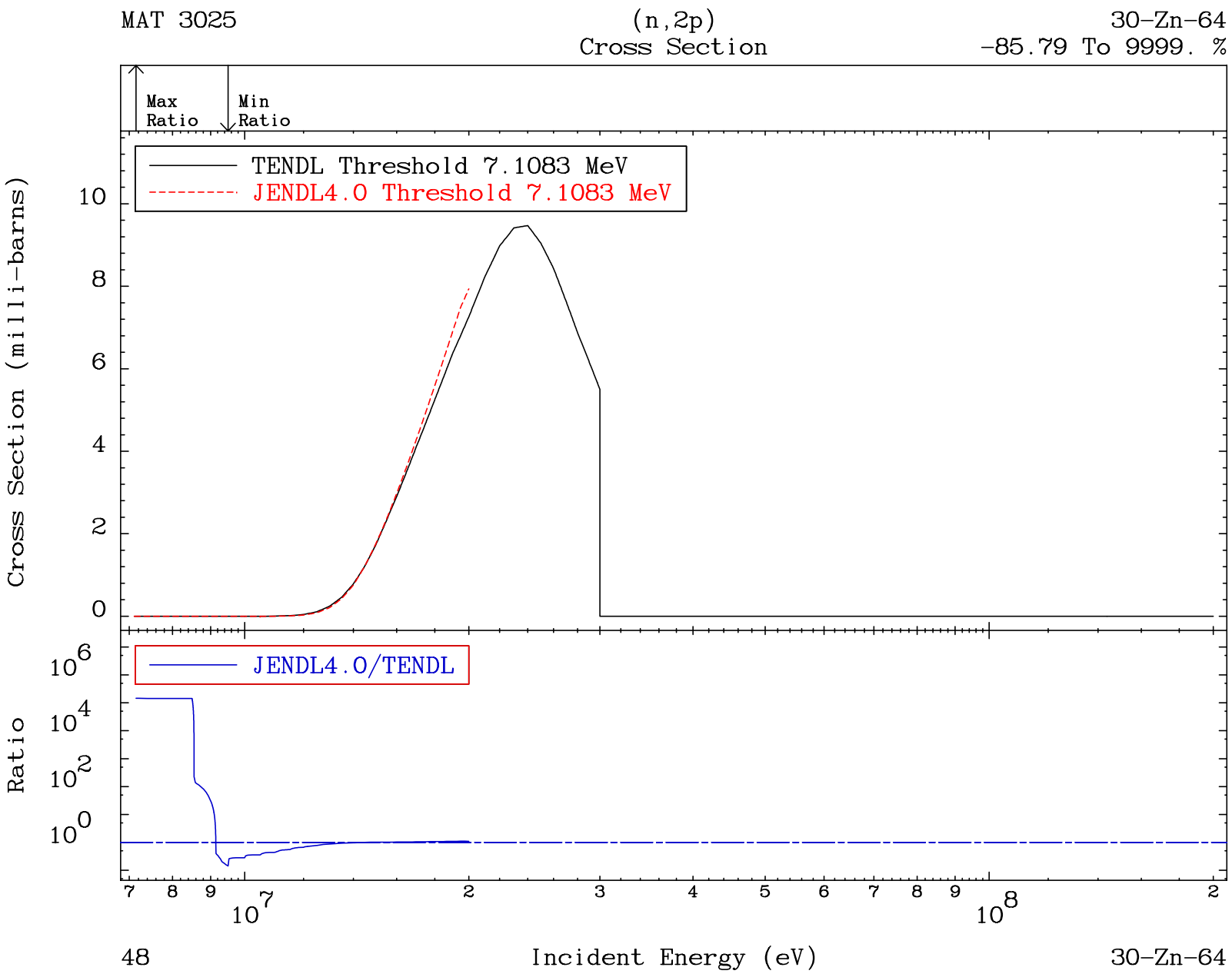

MAT 3025
(n,d)
Cross Section
30-Zn-64
-39.88 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.5753 MeV
JENDL4.0 Threshold 5.5753 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^12
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
30-Zn-64

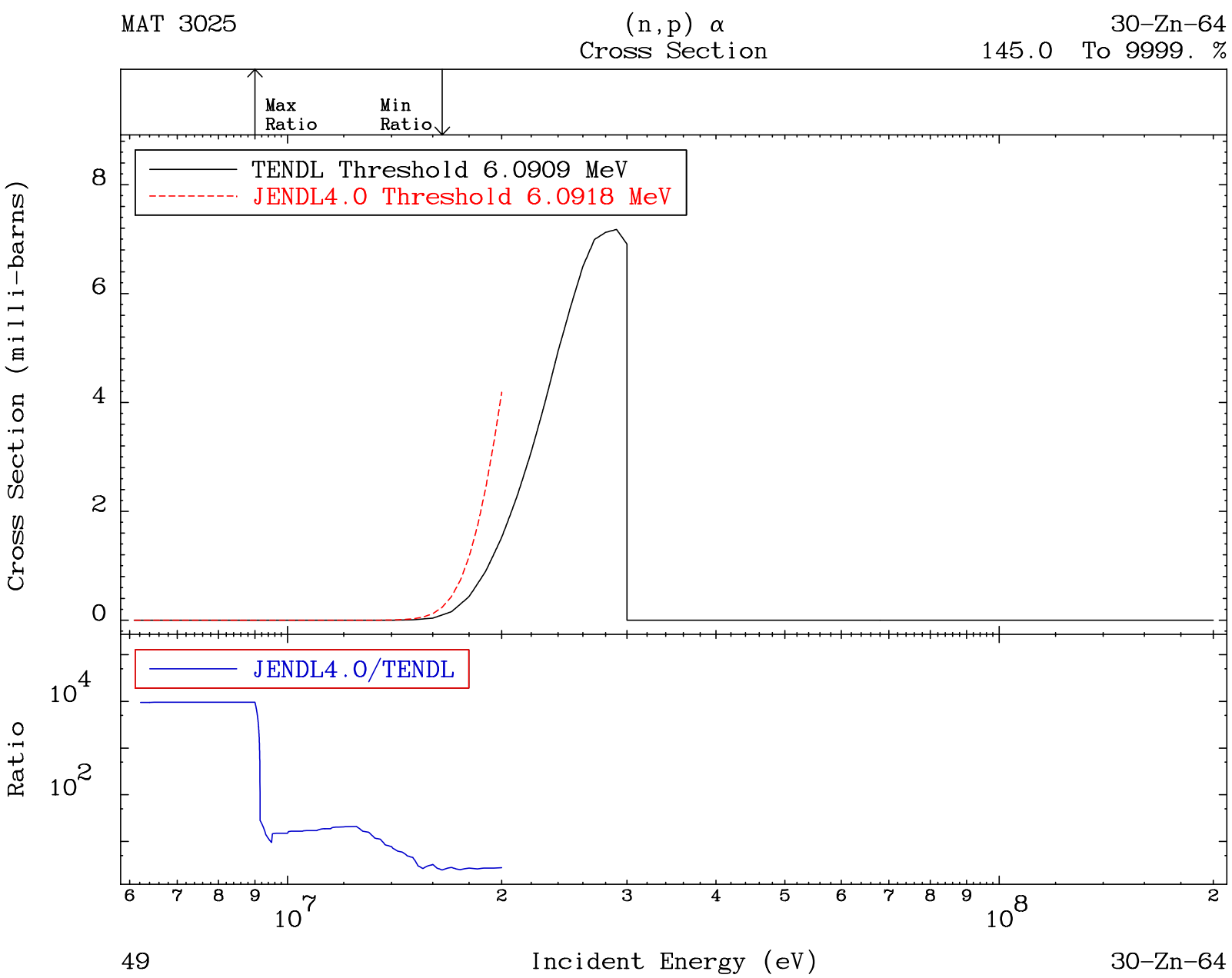

MAT 3025
(n,t)
Cross Section
30-Zn-64
-69.00 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.254 MeV
JENDL4.0 Threshold 10.243 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
44
30-Zn-64

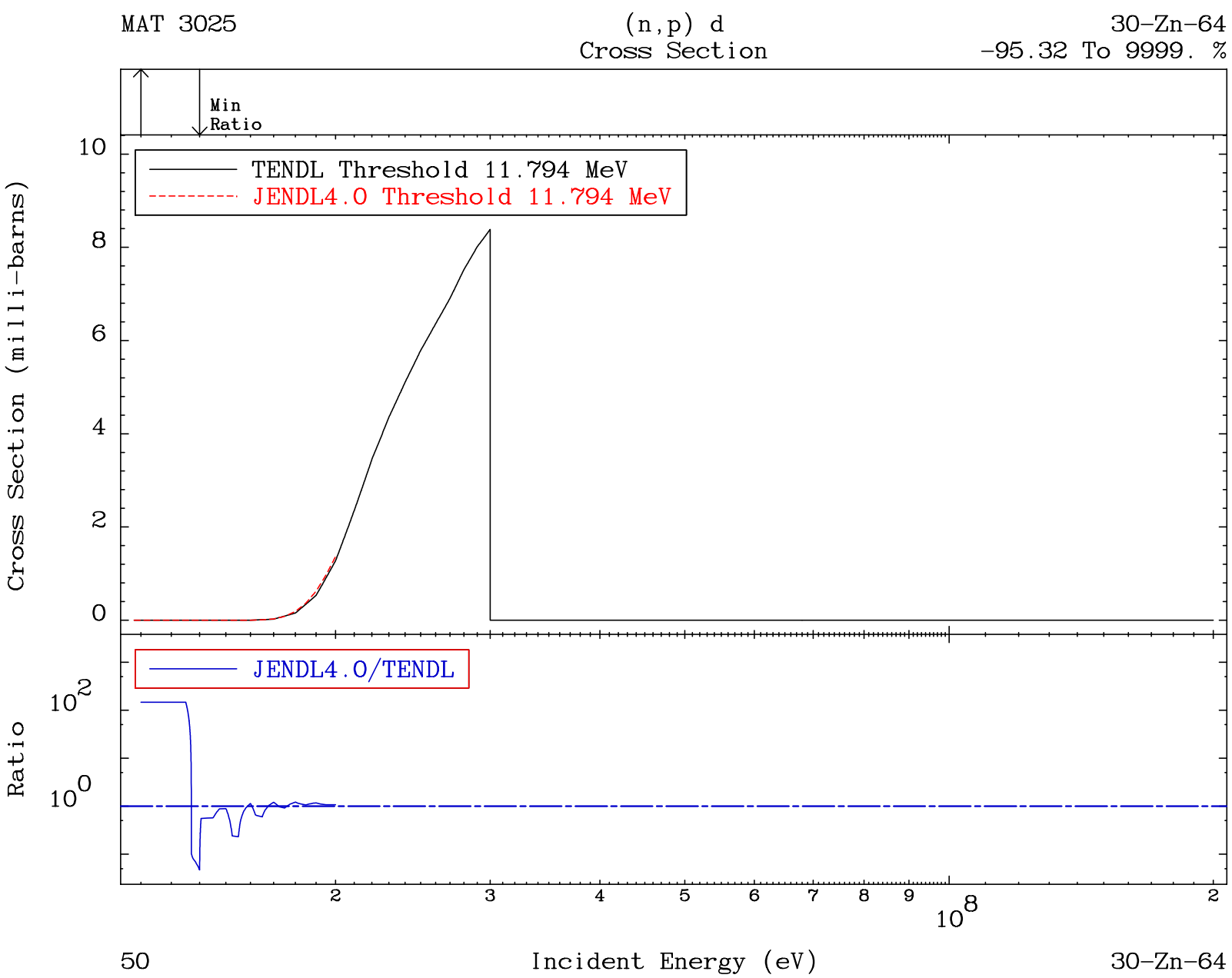

MAT 3025
(n,He-3)
Cross Section
30-Zn-64
-94.18 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2141 MeV
JENDL4.0 Threshold 6.2141 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
45
30-Zn-64

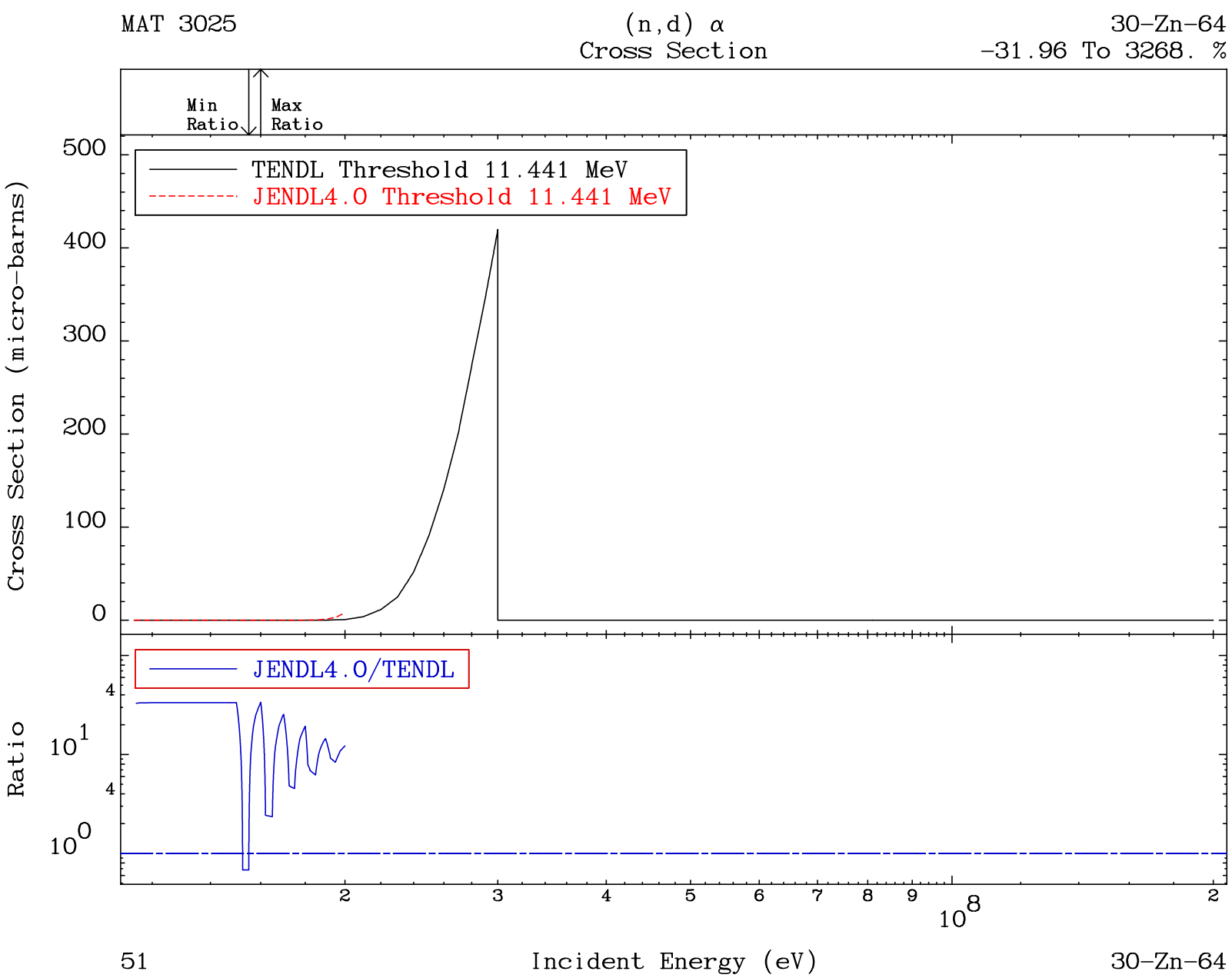

MAT 3025
(n,α)
Cross Section
30-Zn-64
-98.32 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
46
30-Zn-64

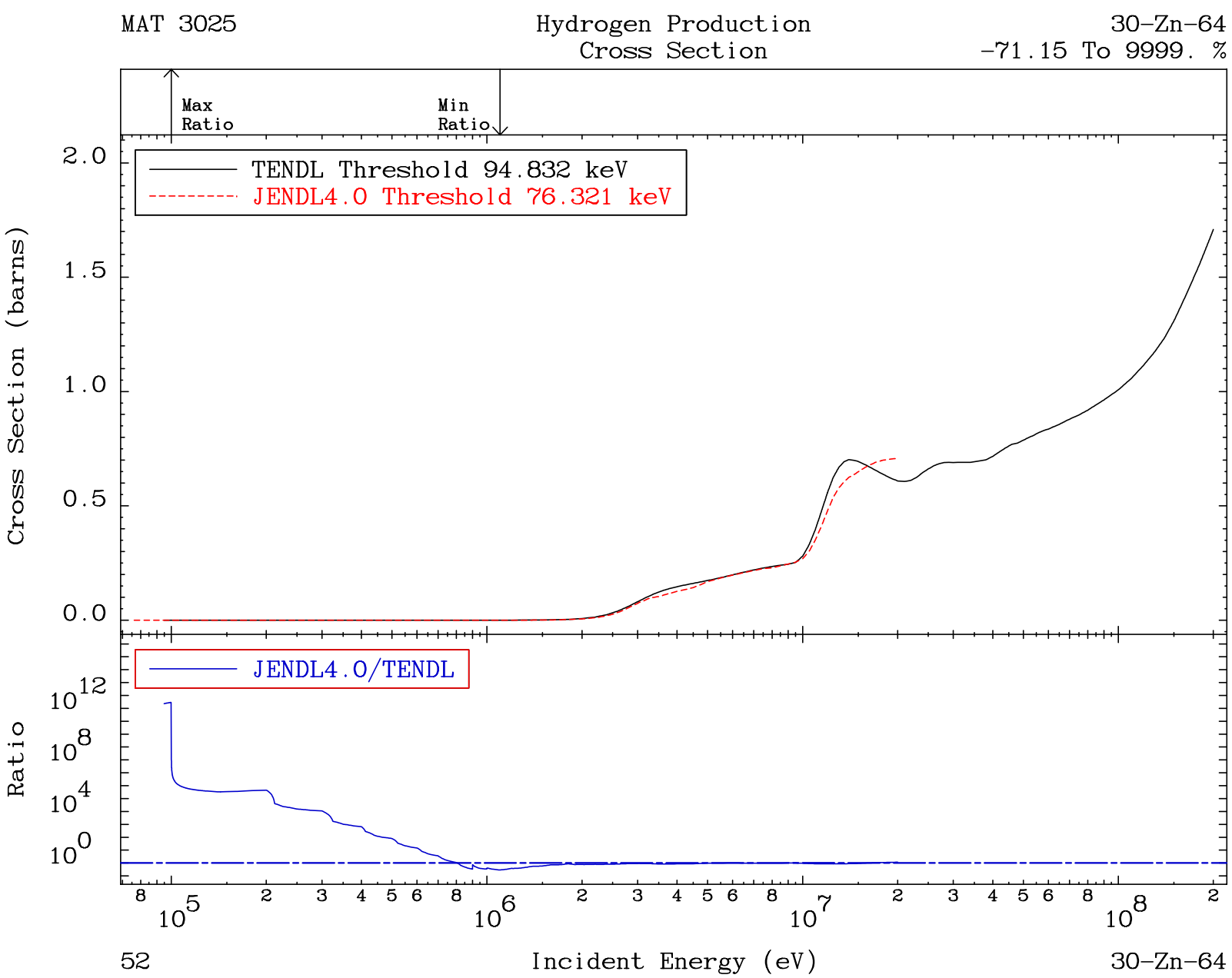

MAT 3025
(n,2α)
Cross Section
30-Zn-64
-99.97 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6417 MeV
JENDL4.0 Threshold 2.6430 MeV
Cross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^3
10^0
10^-3
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
30-Zn-64

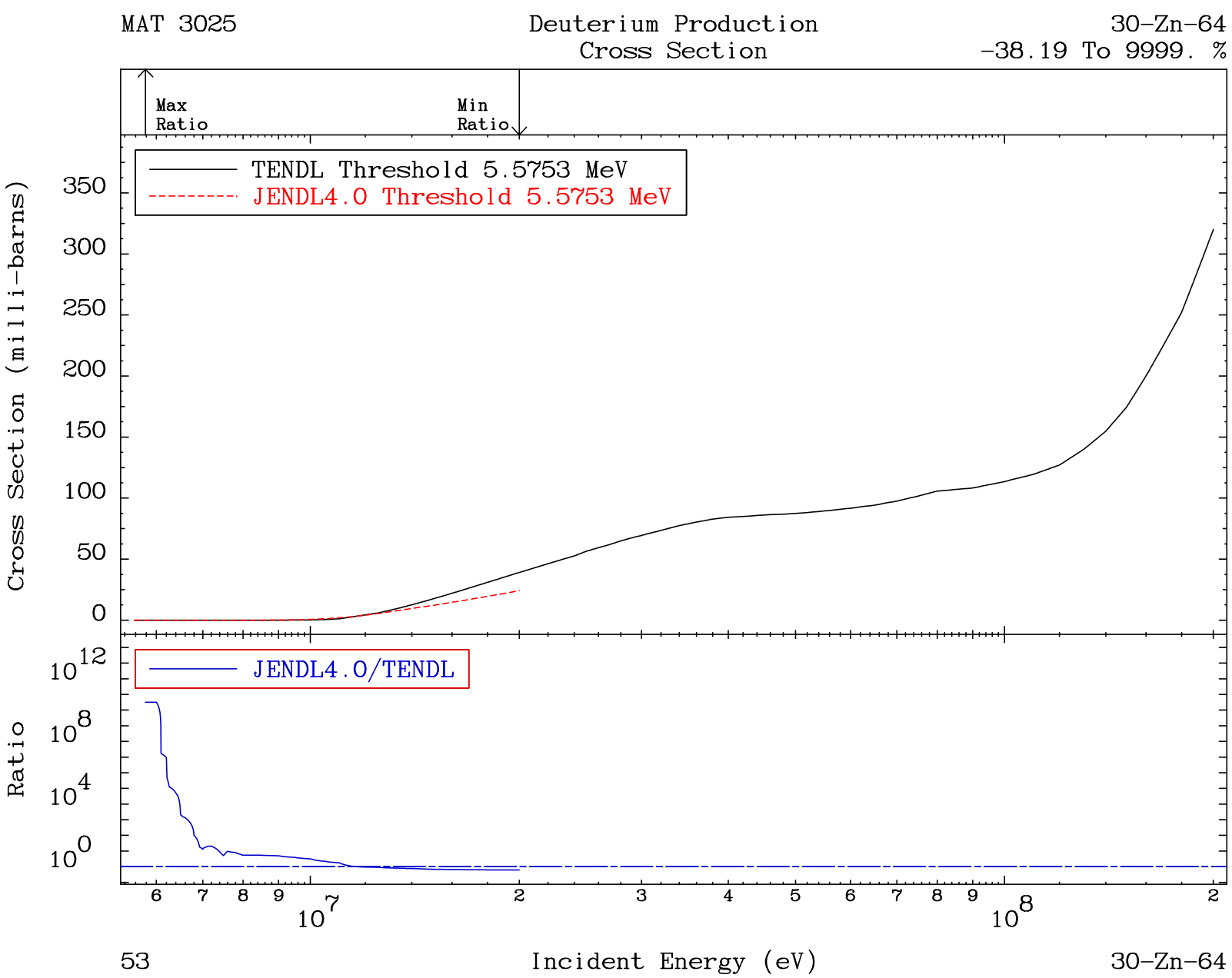

MAT 3025
(n,2p)
Cross Section
30-Zn-64
-85.79 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.1083 MeV
JENDL4.0 Threshold 7.1083 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
48
30-Zn-64

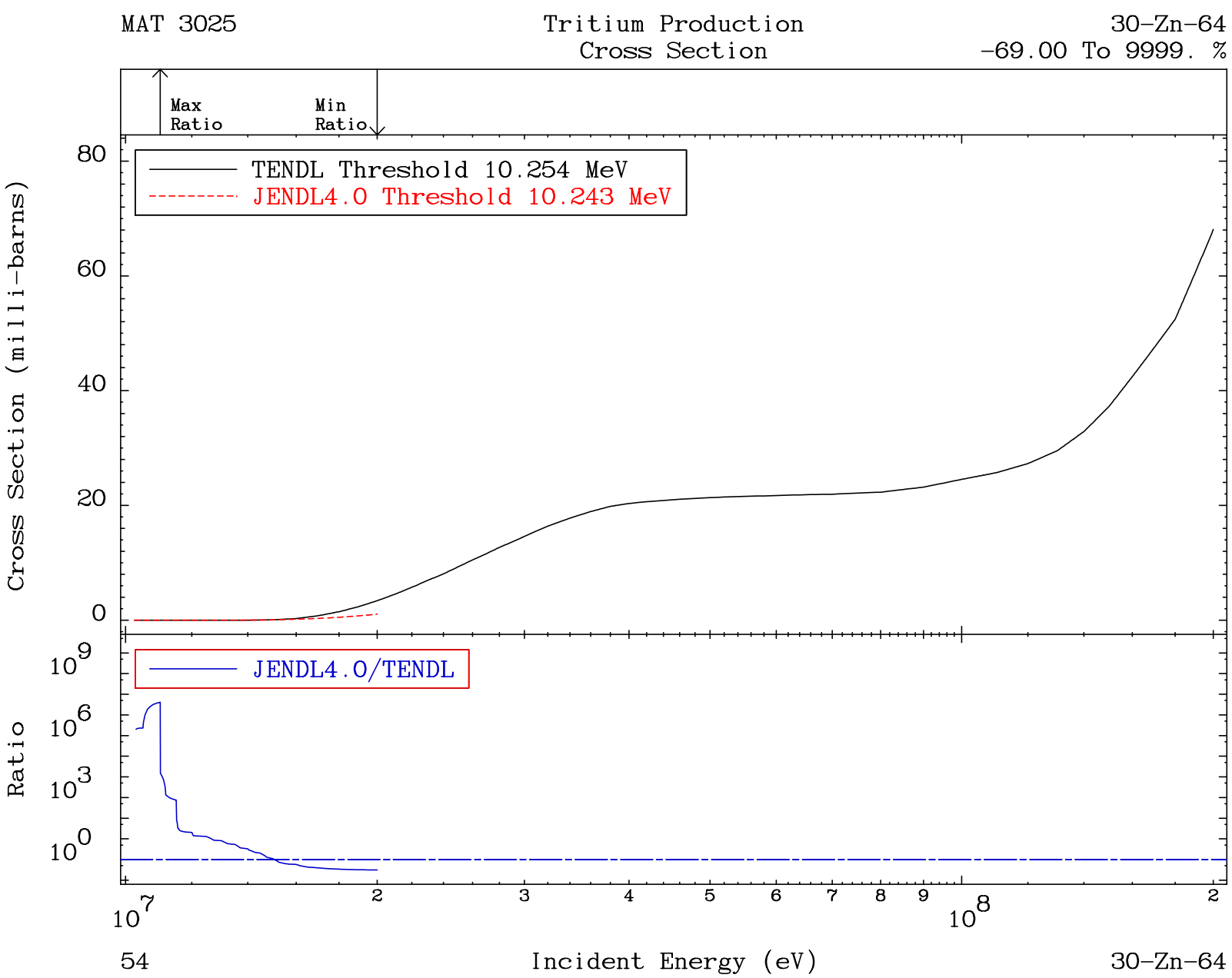

MAT 3025
(n,p) α
Cross Section
30-Zn-64
145.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0909 MeV
JENDL4.0 Threshold 6.0918 MeV
Cross Section (milli-barns)
0
2
4
6
8
JENDL4.0/TENDL
Ratio
10^4
10^2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
30-Zn-64

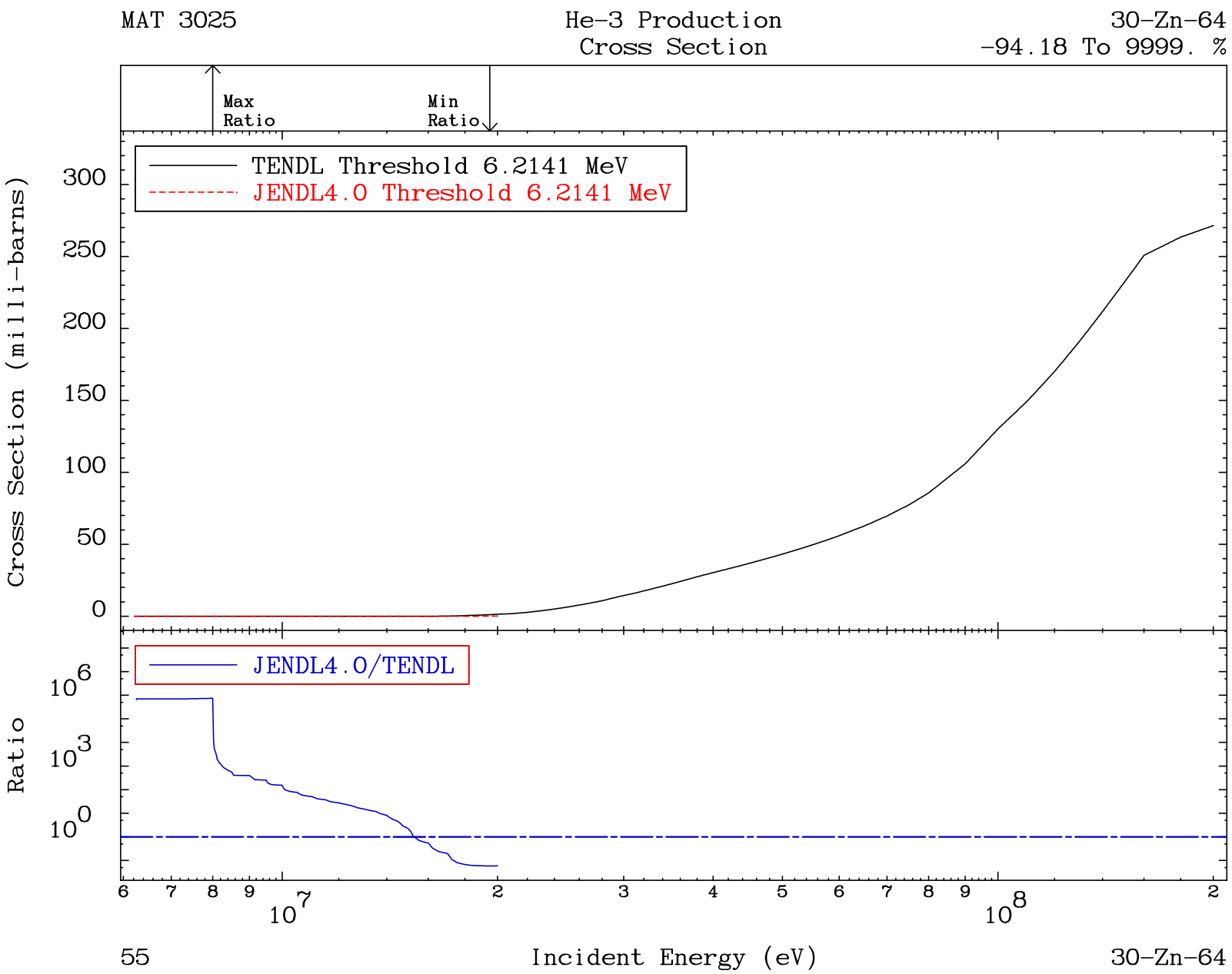

MAT 3025
(n,p) d
Cross Section
30-Zn-64
-95.32 To 9999. %
Min
Ratio
TENDL Threshold 11.794 MeV
JENDL4.0 Threshold 11.794 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
50
30-Zn-64

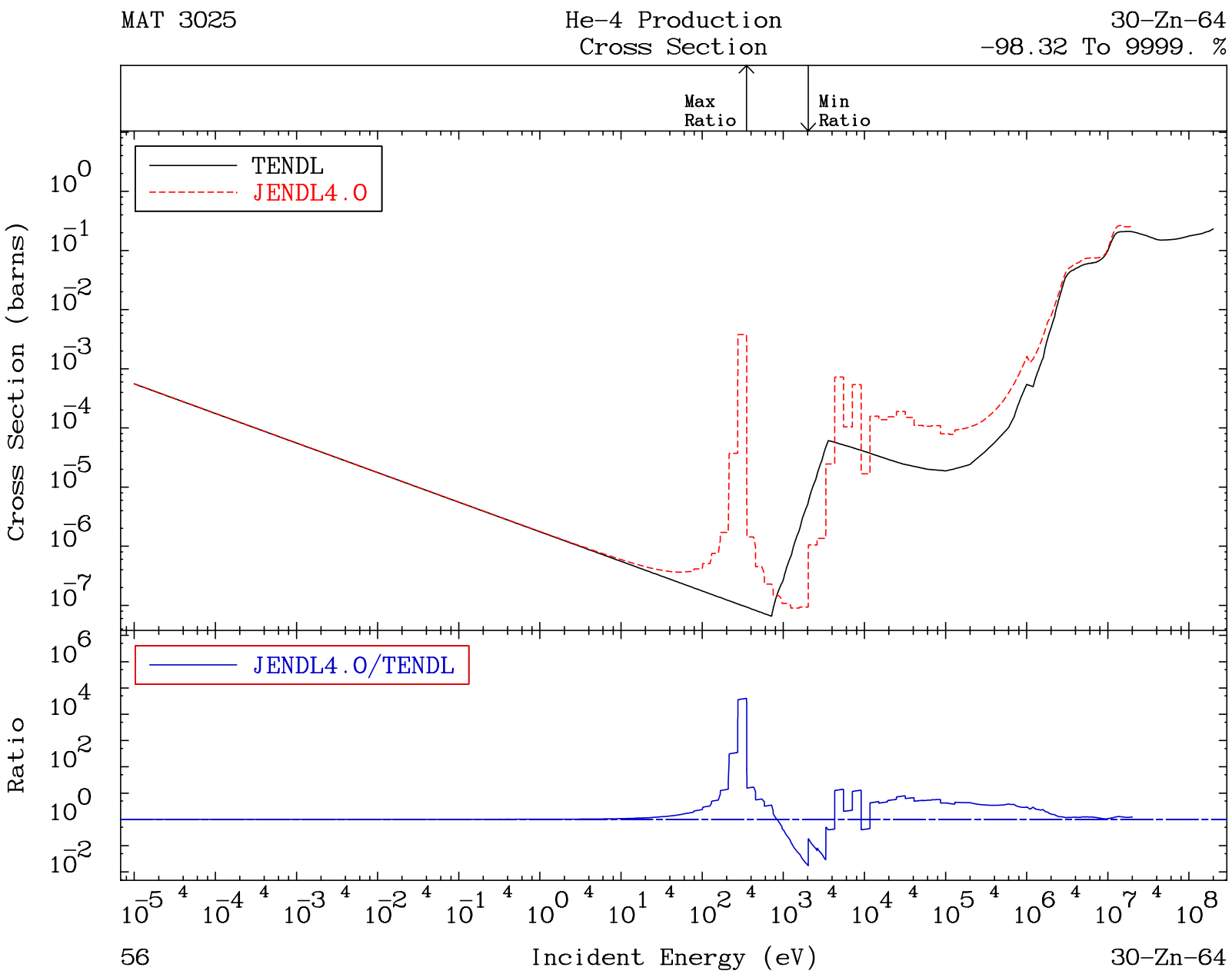

MAT 3025
(n,d) α
Cross Section
30-Zn-64
-31.96 To 3268. %
Min Ratio
Max Ratio
TENDL Threshold 11.441 MeV
JENDL4.0 Threshold 11.441 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
30-Zn-64

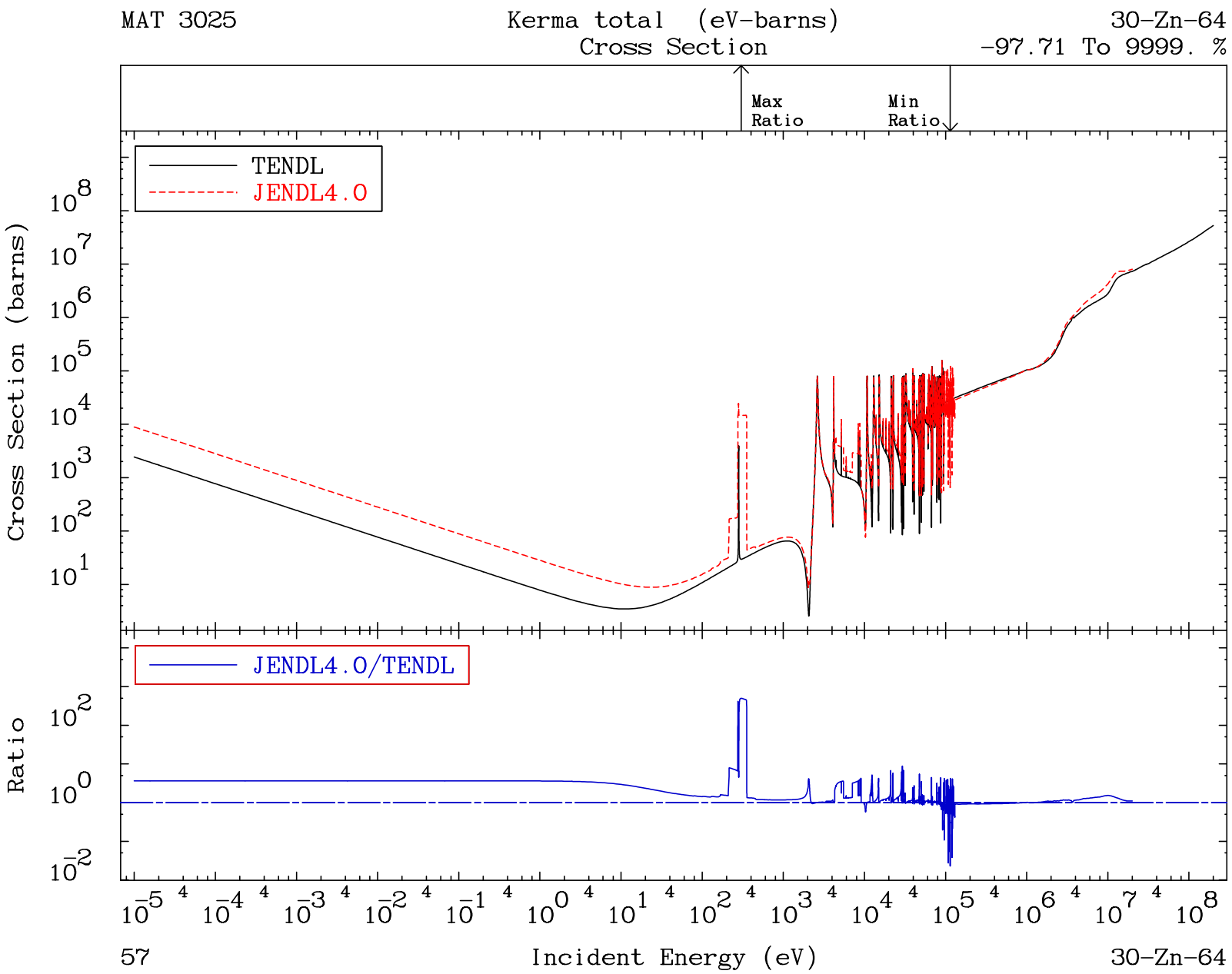

MAT 3025
Hydrogen Production
Cross Section
30-Zn-64
-71.15 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 94.832 keV
JENDL4.0 Threshold 76.321 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^12
10^8
10^4
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
52
30-Zn-64

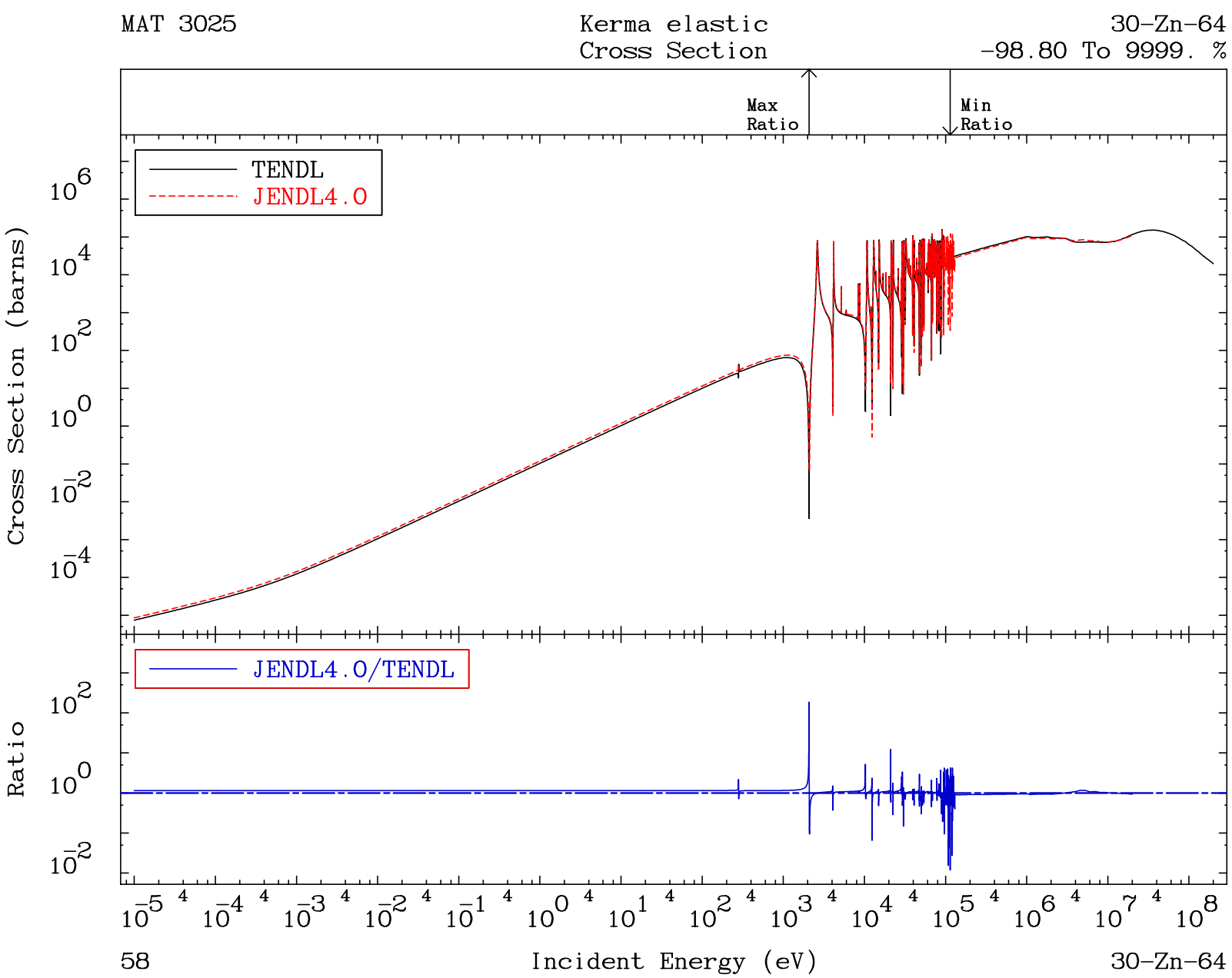

MAT 3025
Deuterium Production
Cross Section
30-Zn-64
-38.19 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.5753 MeV
JENDL4.0 Threshold 5.5753 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^12
10^8
10^4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
30-Zn-64

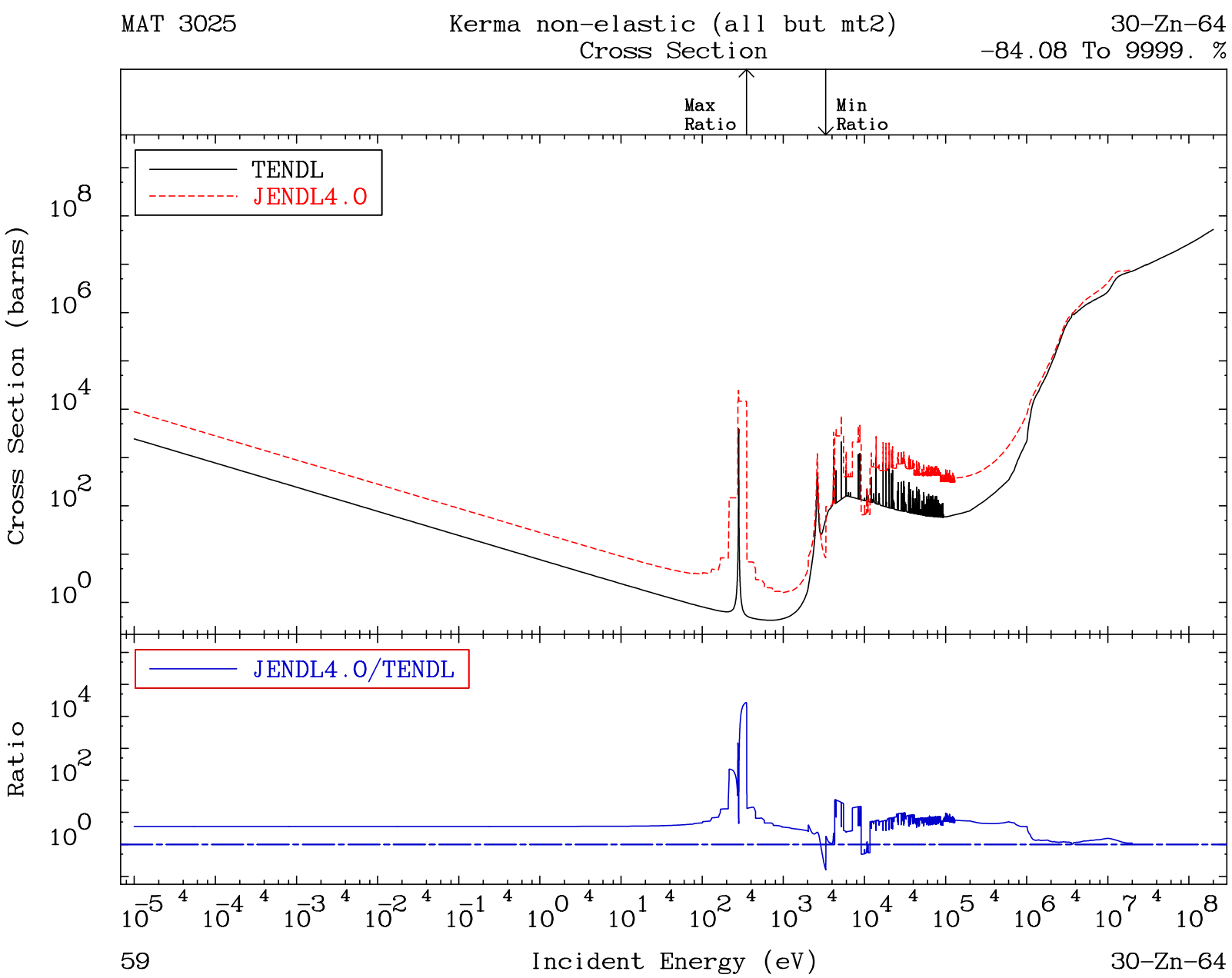

MAT 3025
Tritium Production
Cross Section
30-Zn-64
-69.00 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.254 MeV
JENDL4.0 Threshold 10.243 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
30-Zn-64

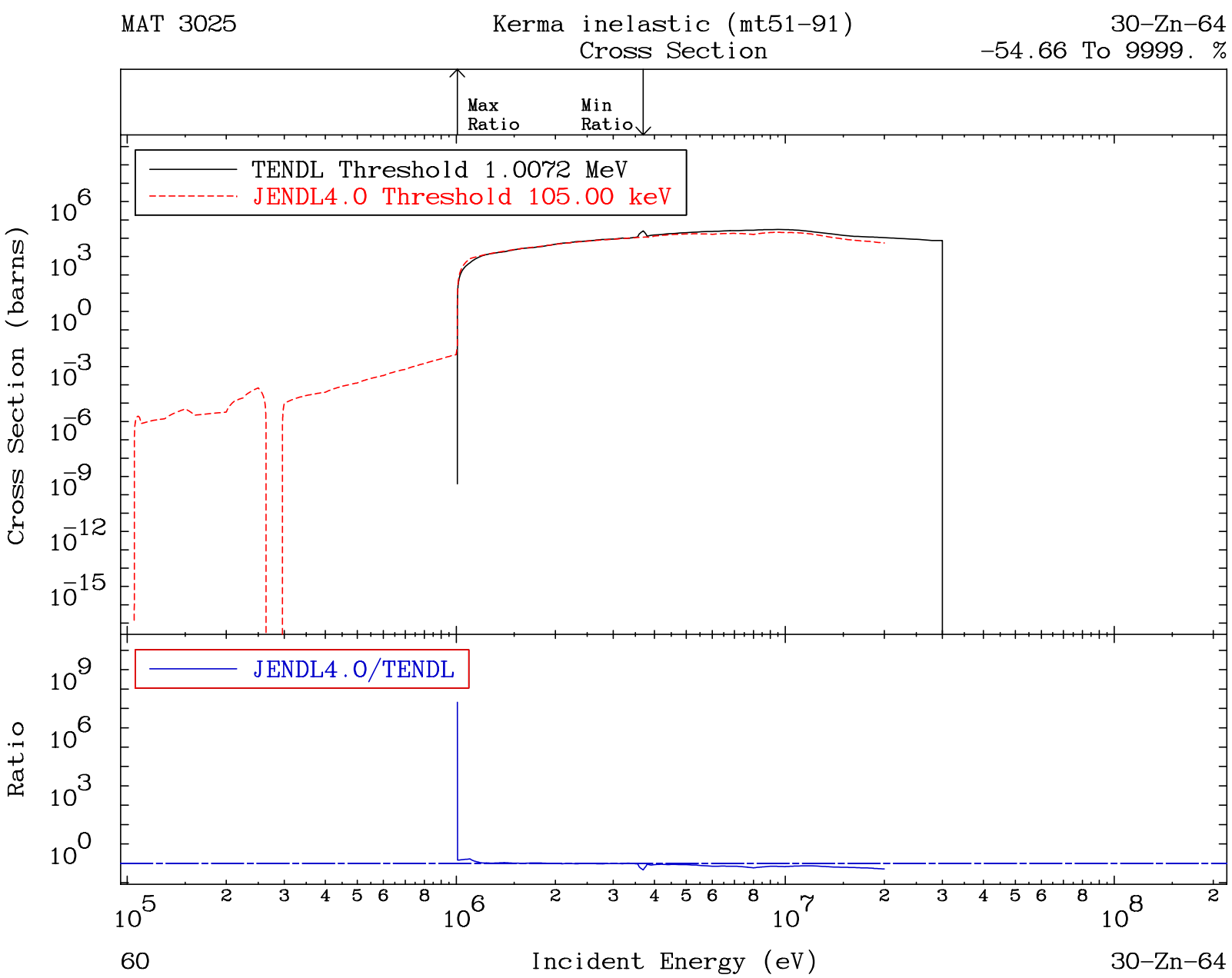

MAT 3025
He-3 Production
Cross Section
30-Zn-64
-94.18 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2141 MeV
JENDL4.0 Threshold 6.2141 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
30-Zn-64

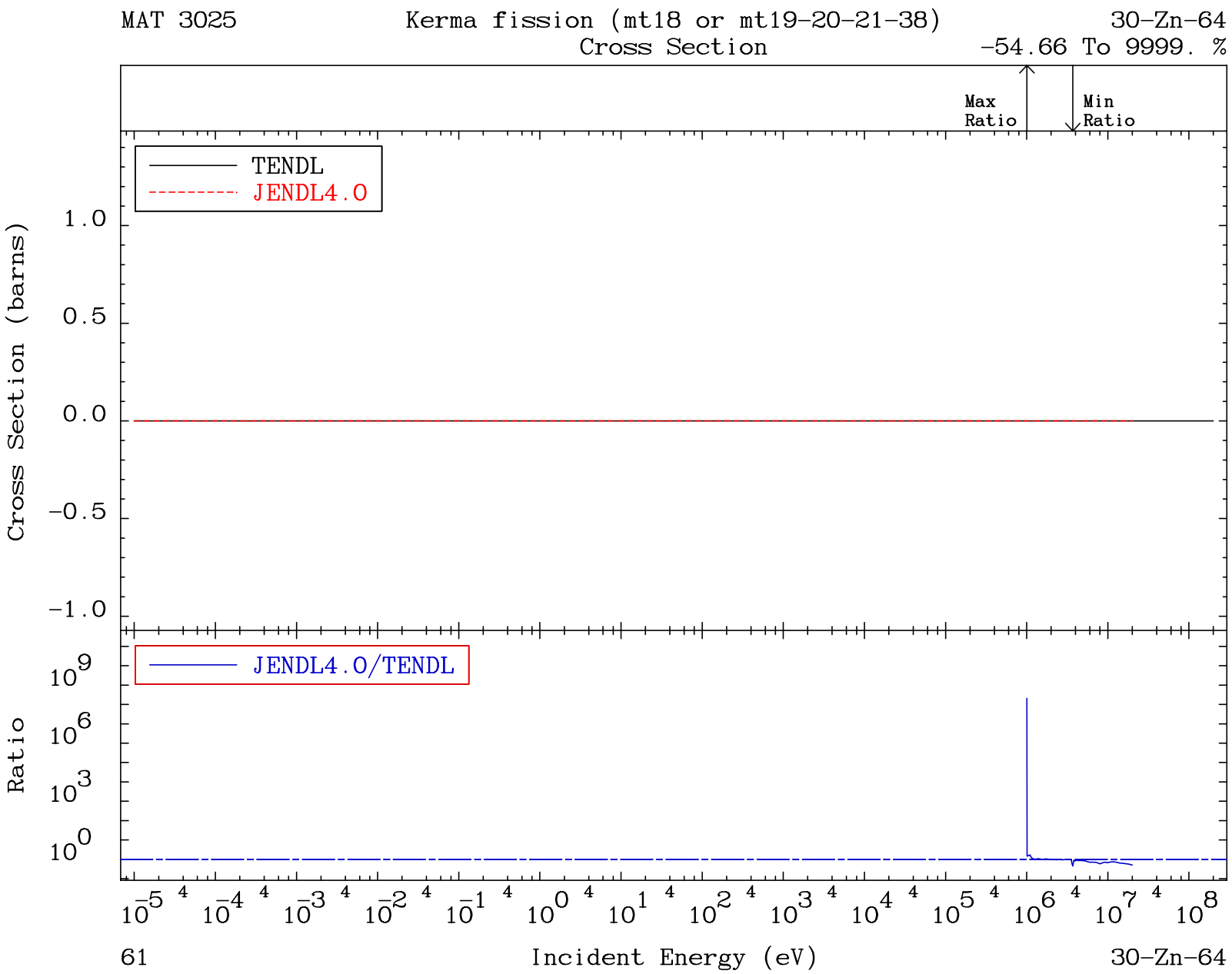

MAT 3025
He-4 Production
Cross Section
30-Zn-64
-98.32 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
30-Zn-64

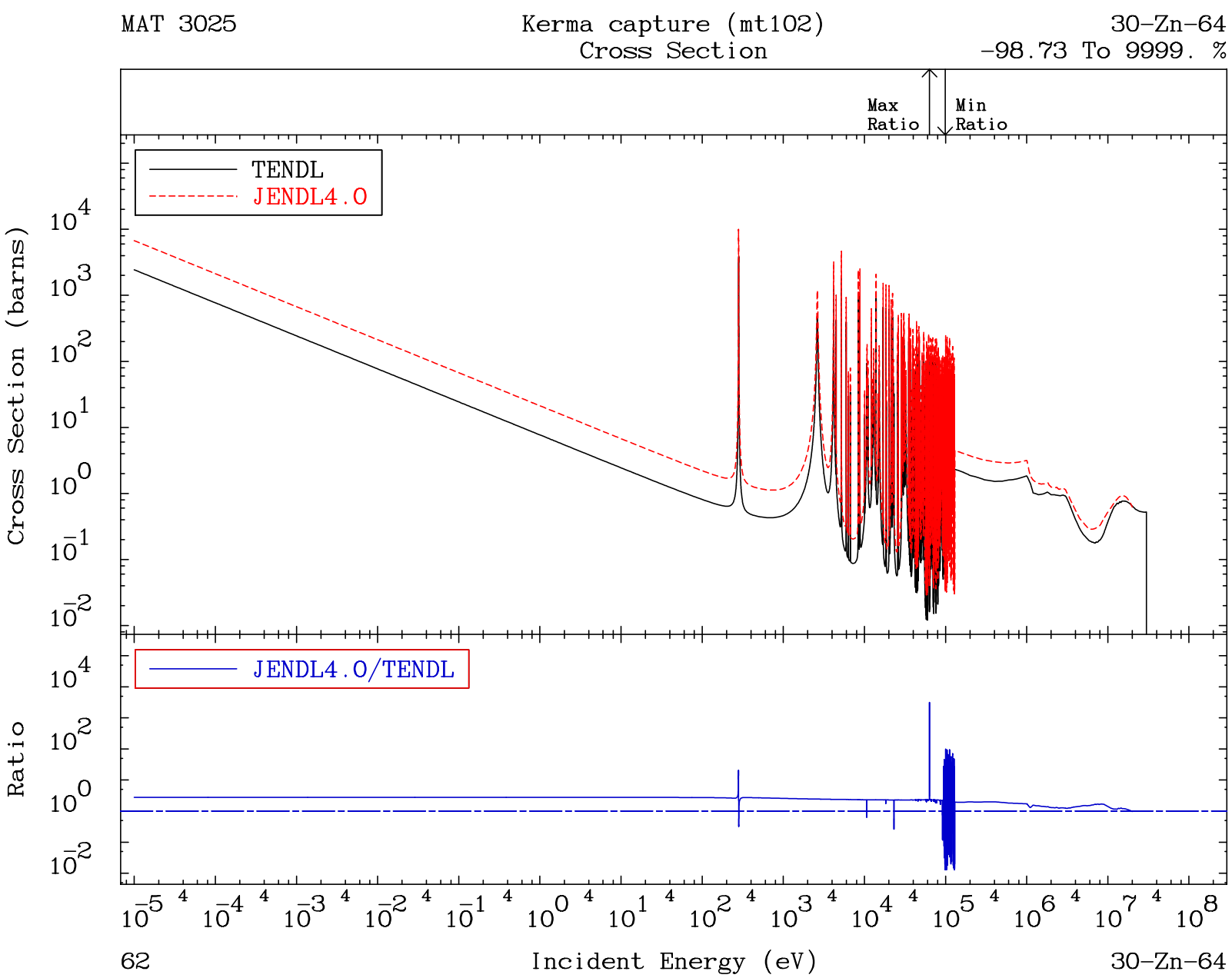

MAT 3025
Kerma total (eV-barns)
Cross Section
30-Zn-64
-97.71 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
57
30-Zn-64

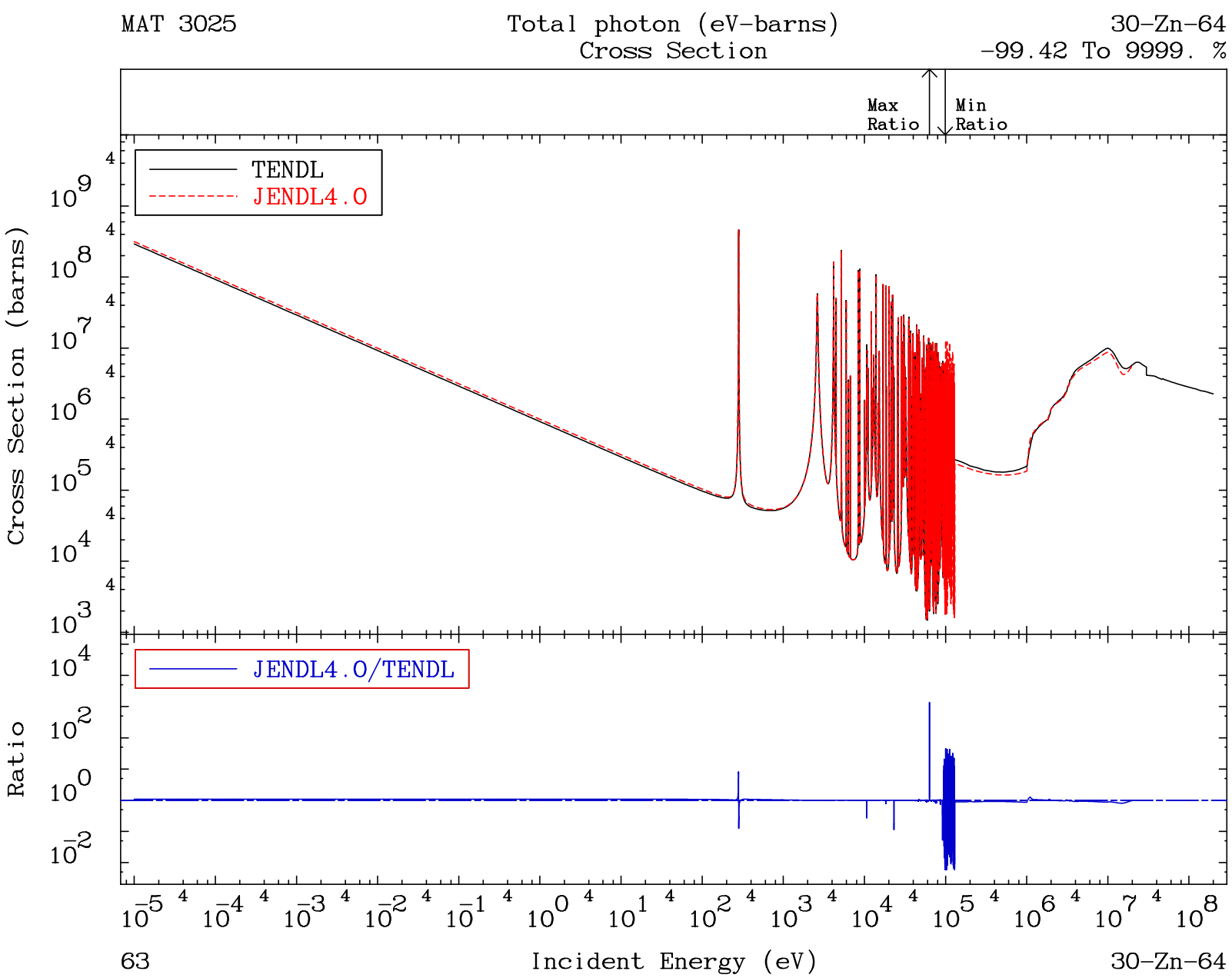

MAT 3025
Kerma elastic
Cross Section
30-Zn-64
-98.80 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
30-Zn-64

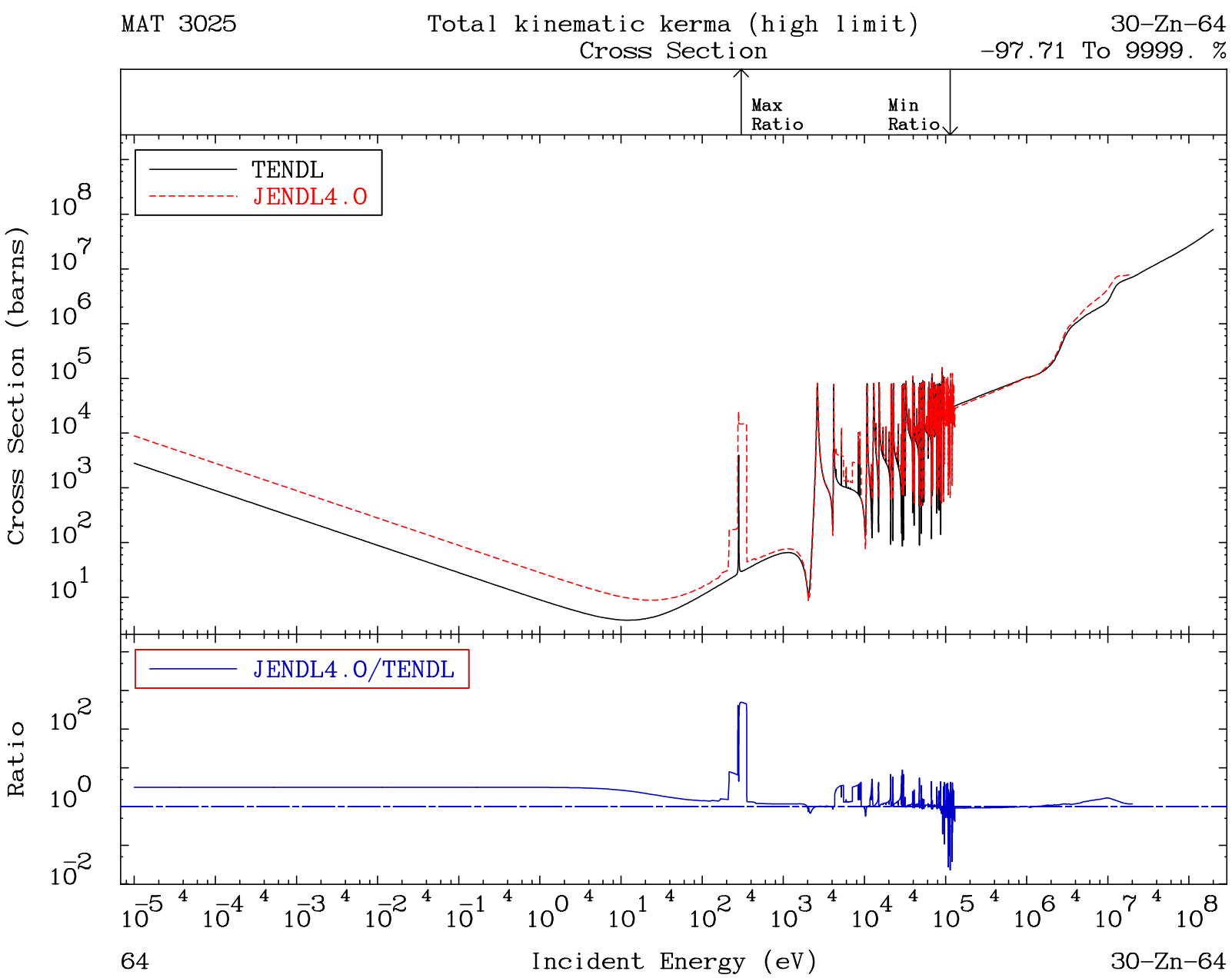

MAT 3025
Kerma non-elastic (all but mt2)
Cross Section
30-Zn-64
-84.08 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
59
30-Zn-64

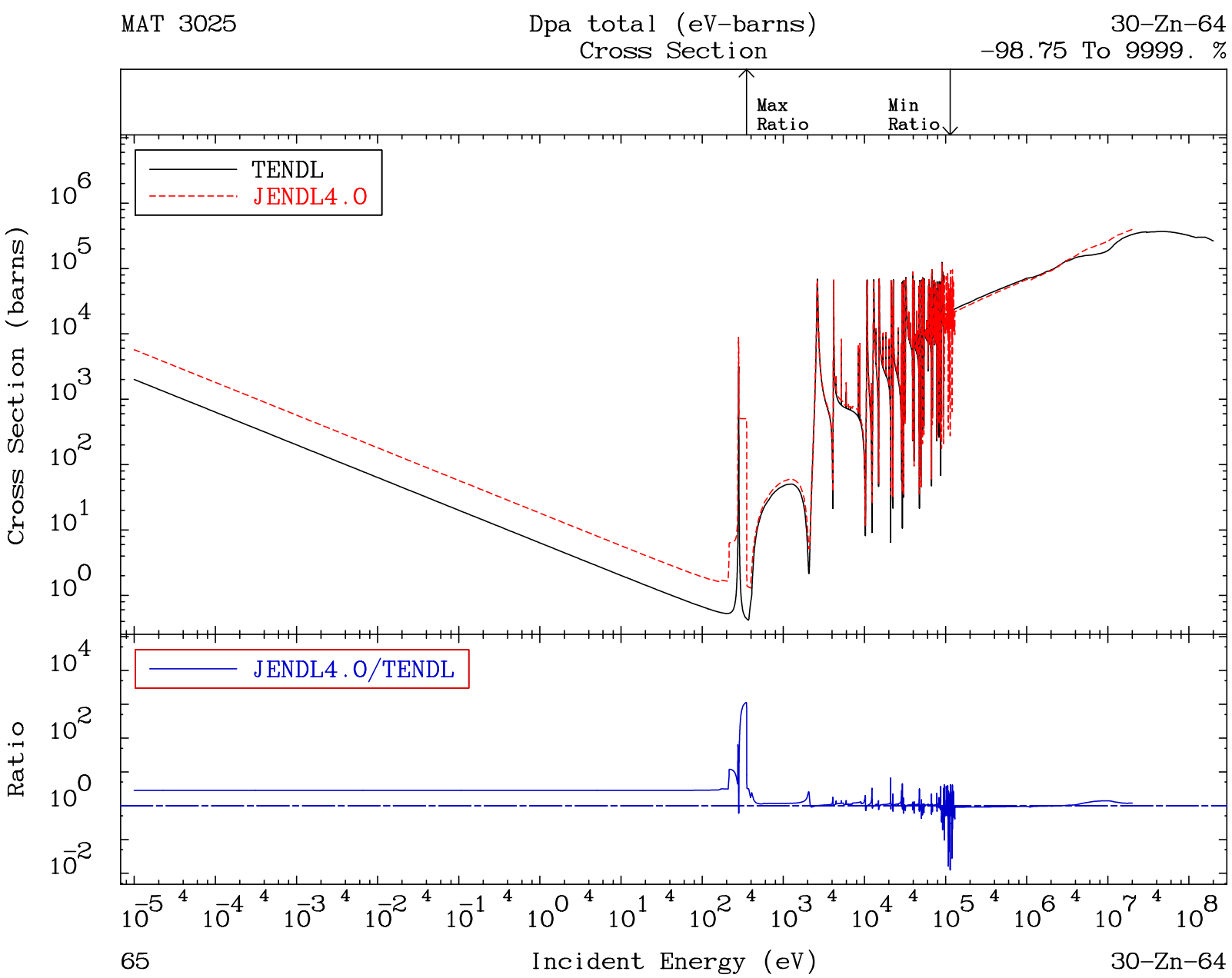

MAT 3025
Kerma inelastic (mt51-91)
Cross Section
30-Zn-64
-54.66 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0072 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
60
30-Zn-64

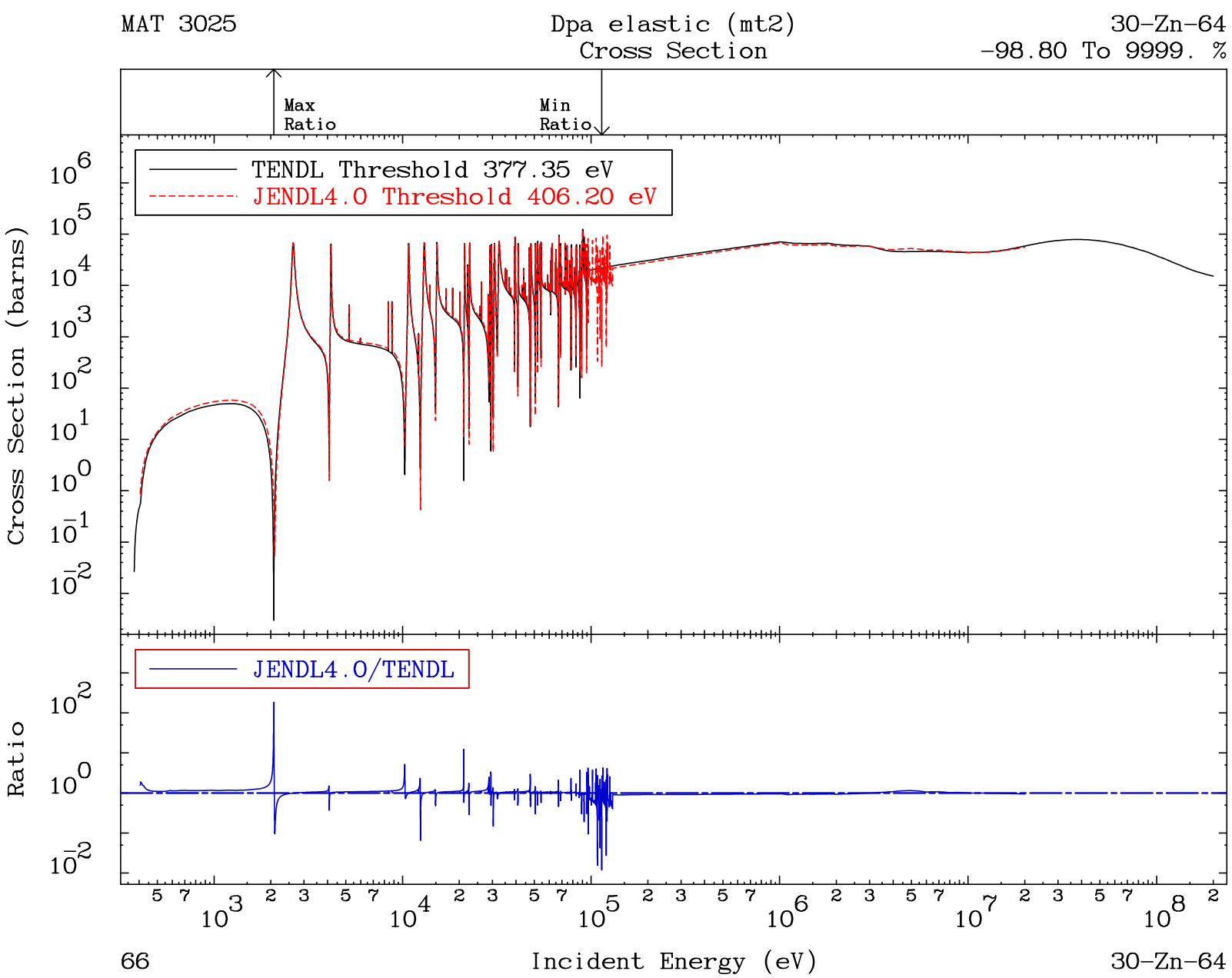

MAT 3025
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
30-Zn-64
-54.66 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
61
Incident Energy (eV)
30-Zn-64

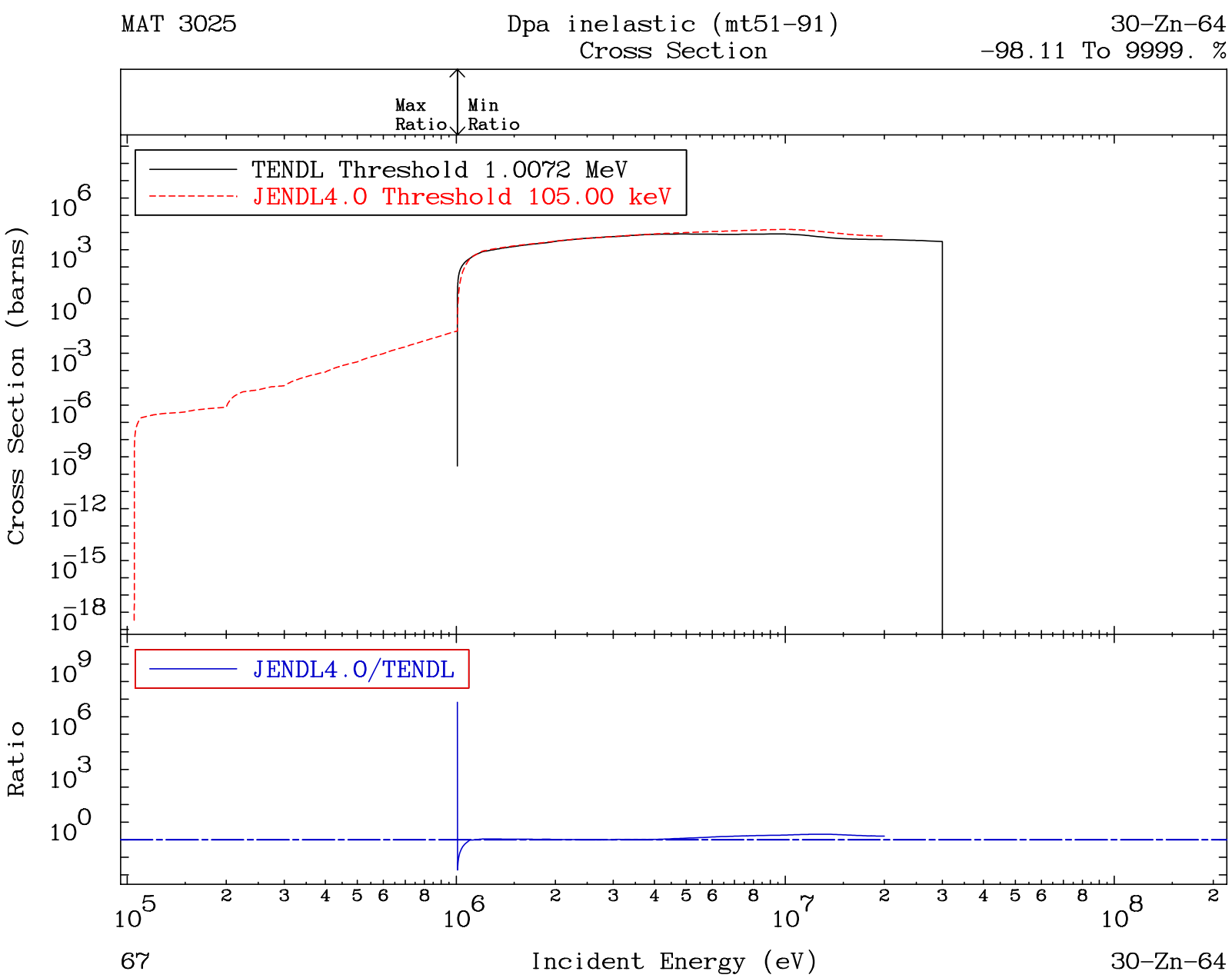

MAT 3025
Kerma capture (mt102)
Cross Section
30-Zn-64
-98.73 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
62
30-Zn-64

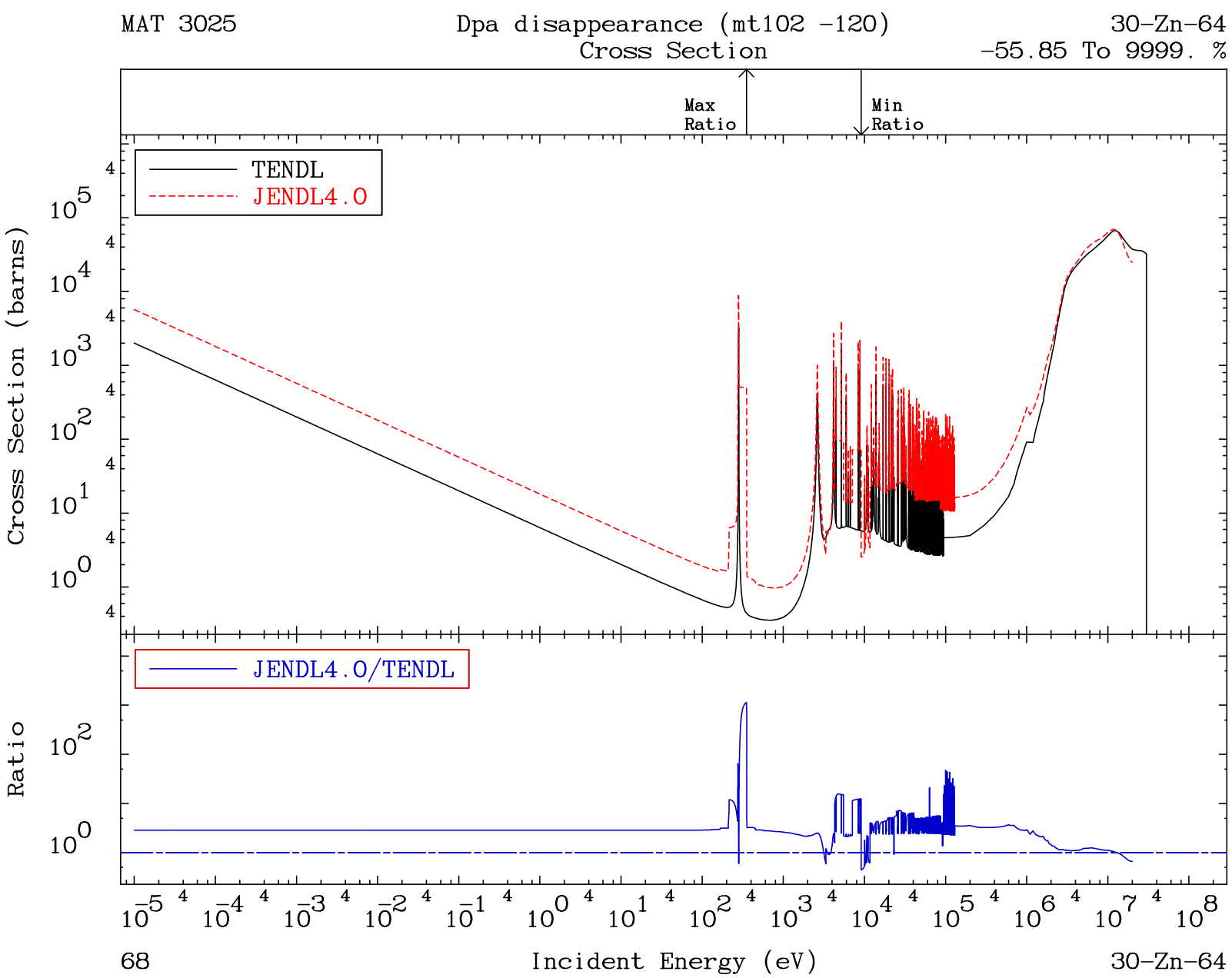

MAT 3025
Total photon (eV-barns)
Cross Section
30-Zn-64
-99.42 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
63
30-Zn-64

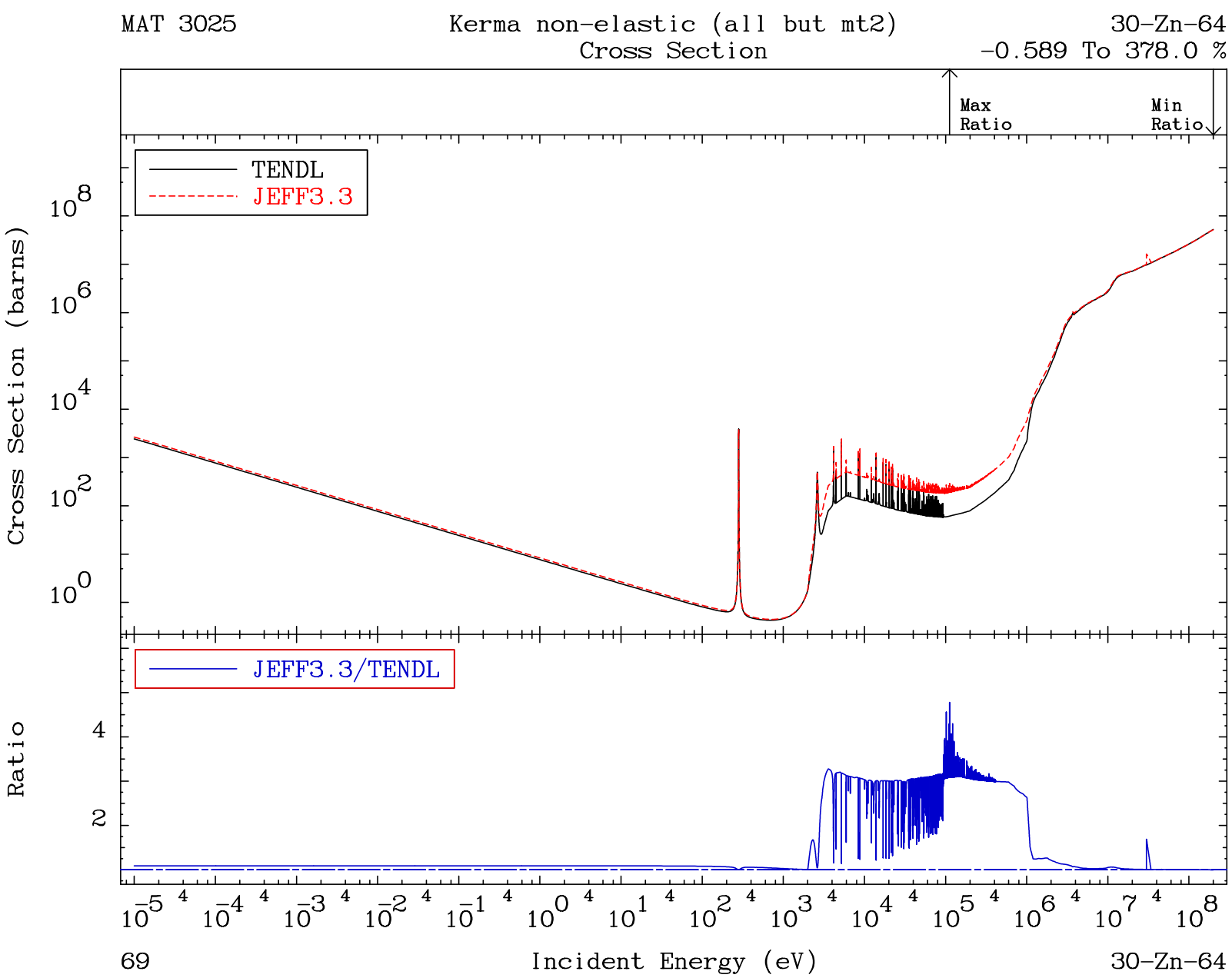

MAT 3025
Total kinematic kerma (high limit)
Cross Section
30-Zn-64
-97.71 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
64
30-Zn-64

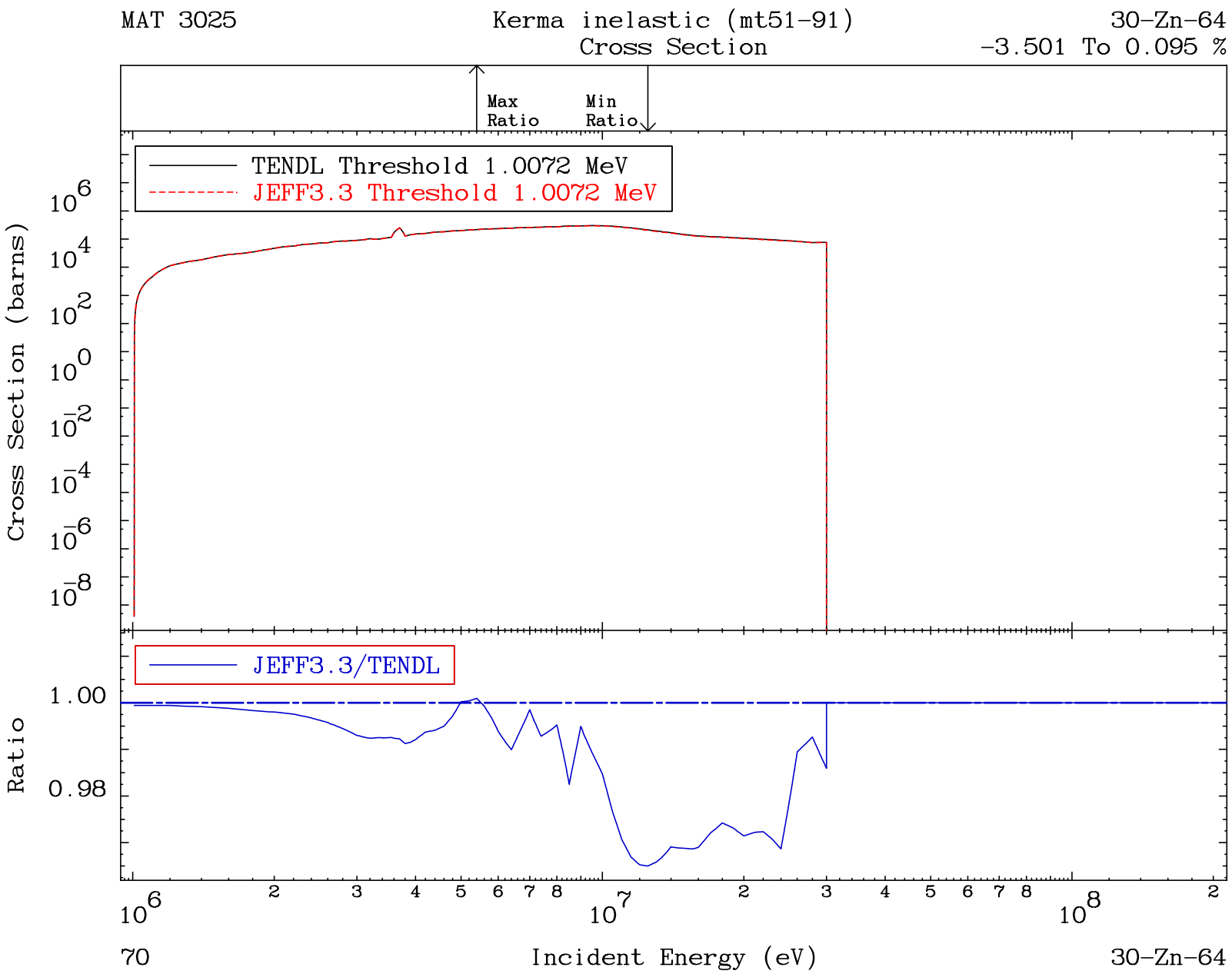

MAT 3025
Dpa total (eV-barns)
Cross Section
30-Zn-64
-98.75 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
65
30-Zn-64

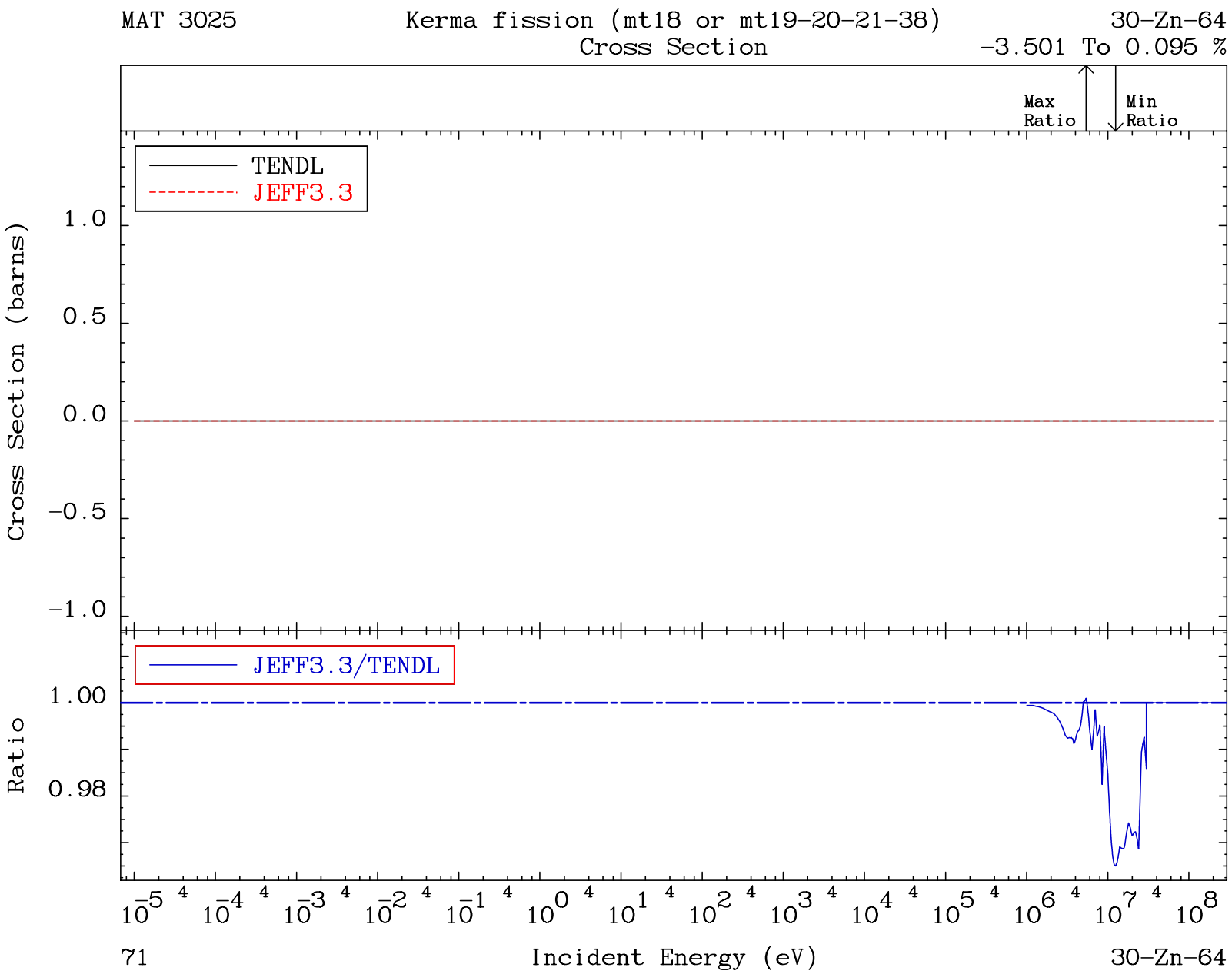

MAT 3025
Dpa elastic (mt2)
Cross Section
30-Zn-64
-98.80 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 377.35 eV
JENDL4.0 Threshold 406.20 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
66
30-Zn-64

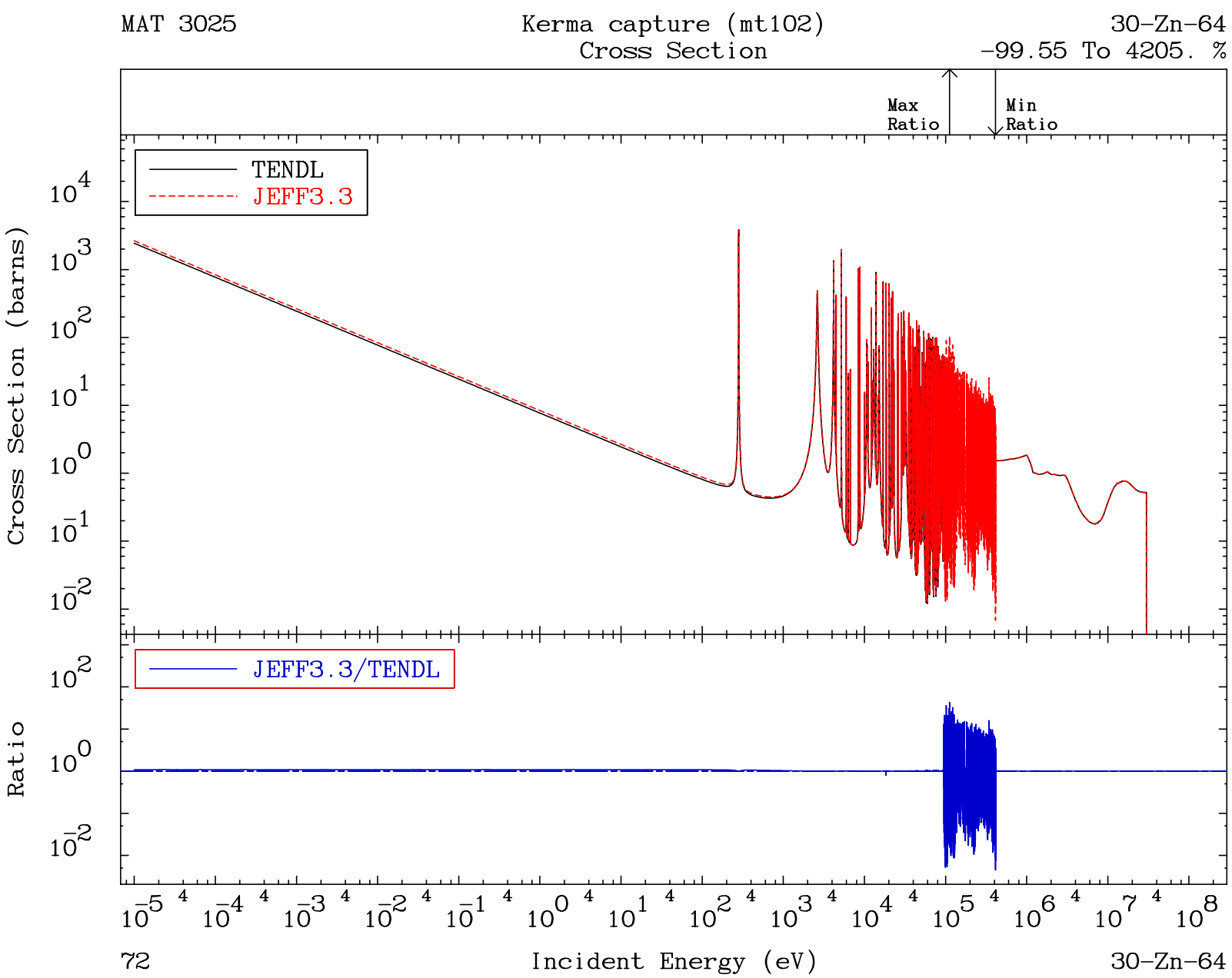

MAT 3025
Dpa inelastic (mt51-91)
Cross Section
30-Zn-64
-98.11 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0072 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
67
30-Zn-64

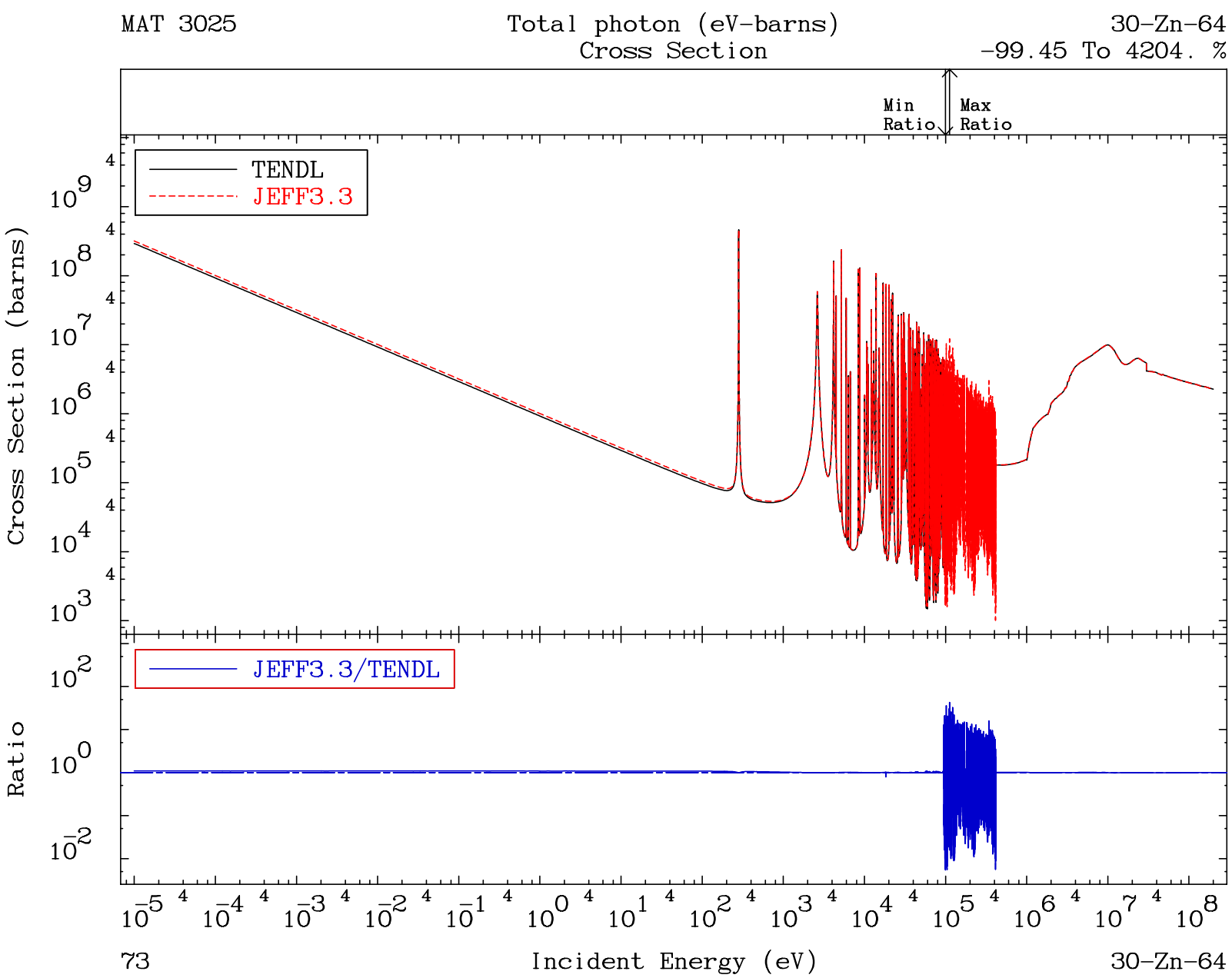

MAT 3025
Dpa disappearance (mt102 -120)
Cross Section
30-Zn-64
-55.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
68
30-Zn-64

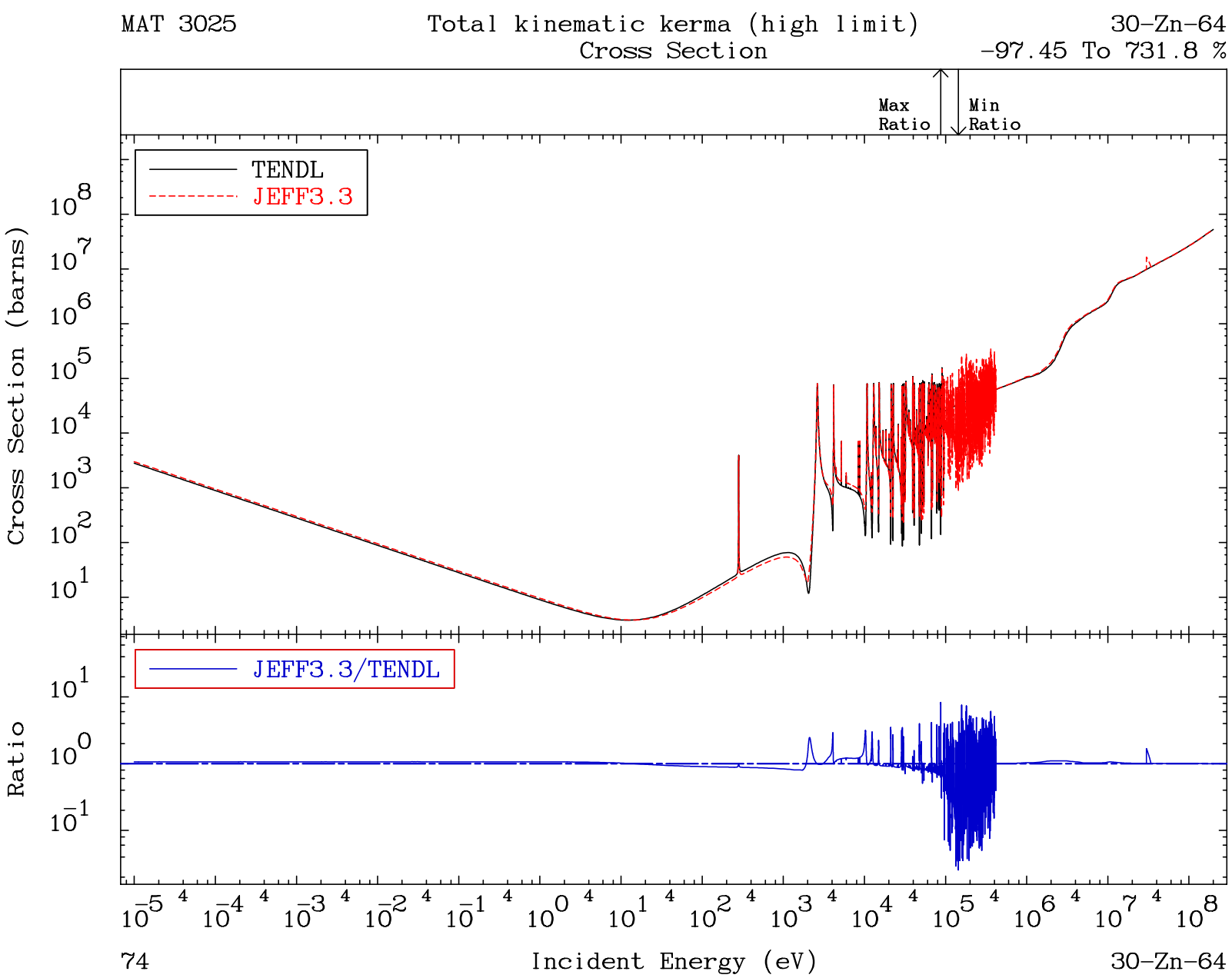

MAT 3025
Kerma non-elastic (all but mt2)
Cross Section
30-Zn-64
-0.589 To 378.0 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
30-Zn-64

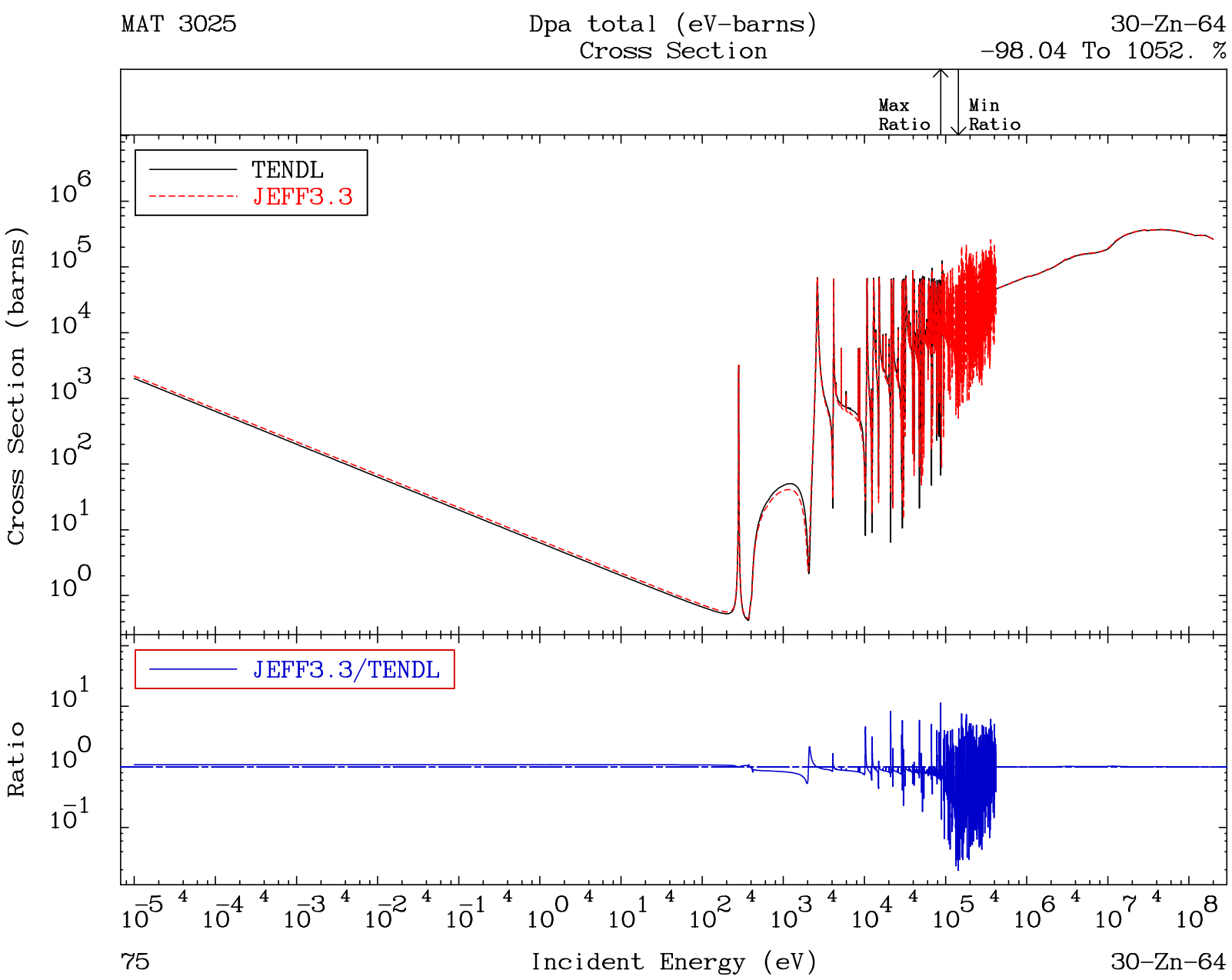

MAT 3025
Kerma inelastic (mt51-91)
Cross Section
30-Zn-64
-3.501 To 0.095 %
Max Ratio
Min Ratio
TENDL Threshold 1.0072 MeV
JEFF3.3 Threshold 1.0072 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
30-Zn-64

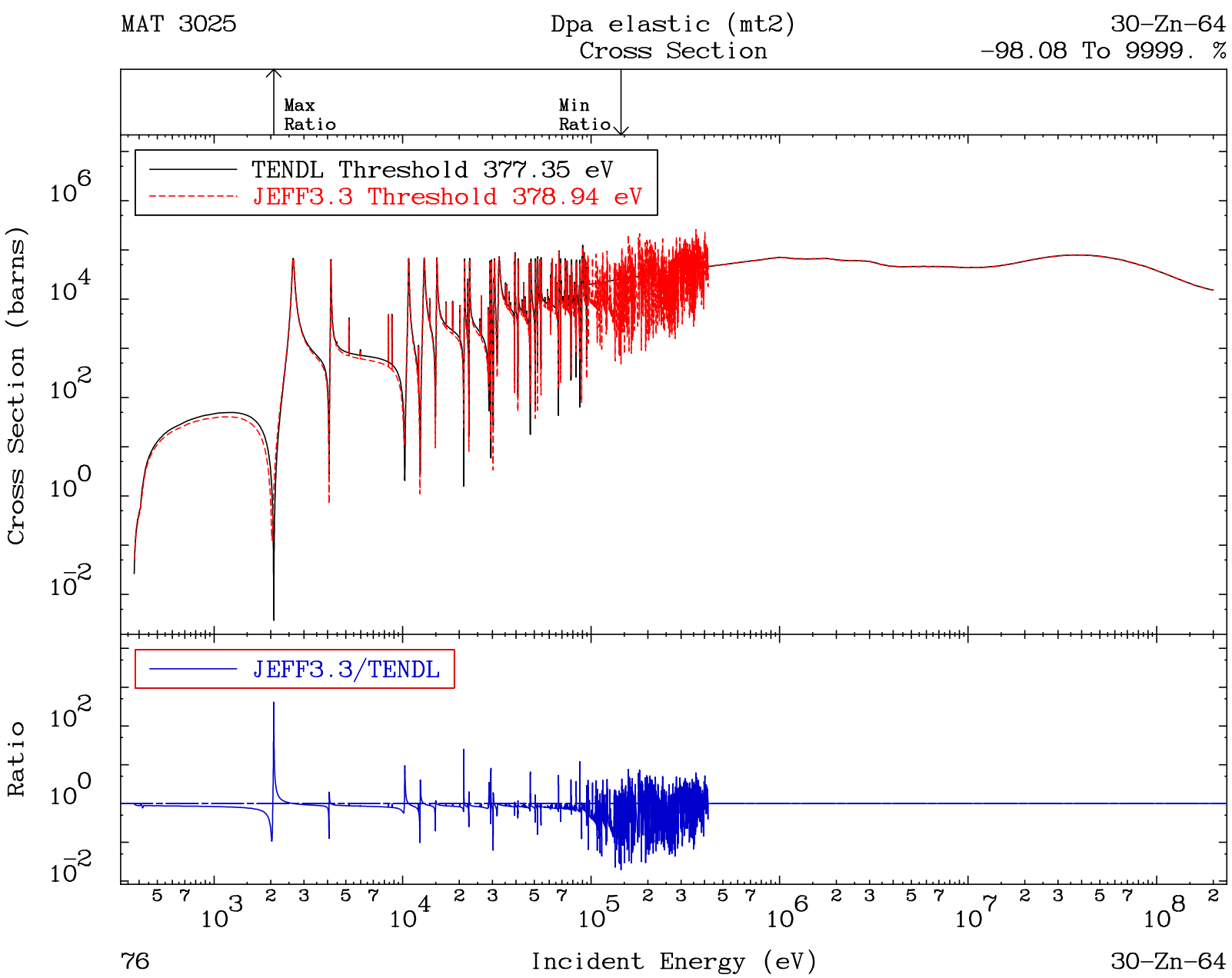

MAT 3025
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
30-Zn-64
-3.501 To 0.095 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.00
0.98
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
71
Incident Energy (eV)
30-Zn-64

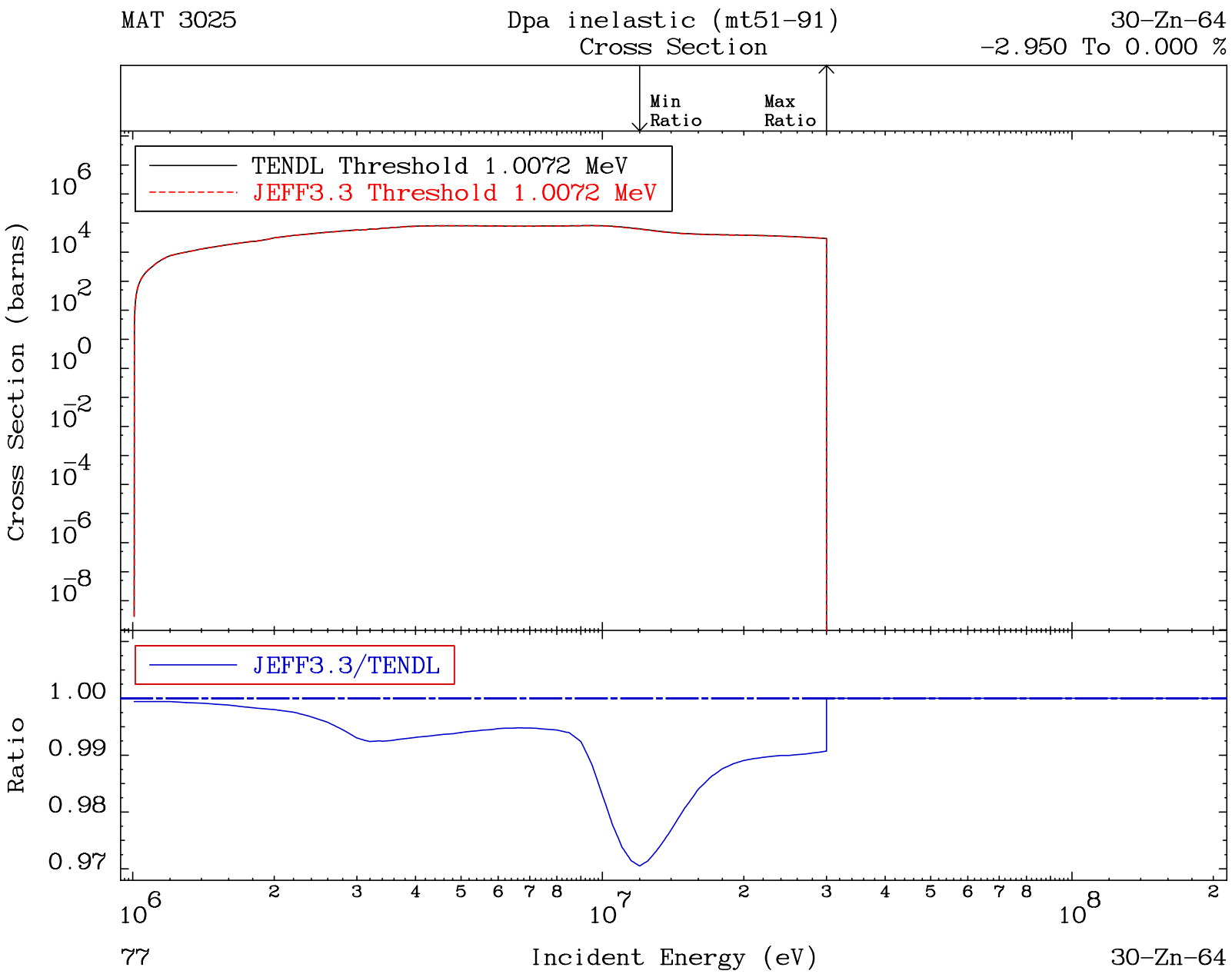

MAT 3025
Kerma capture (mt102)
Cross Section
30-Zn-64
-99.55 To 4205. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
30-Zn-64

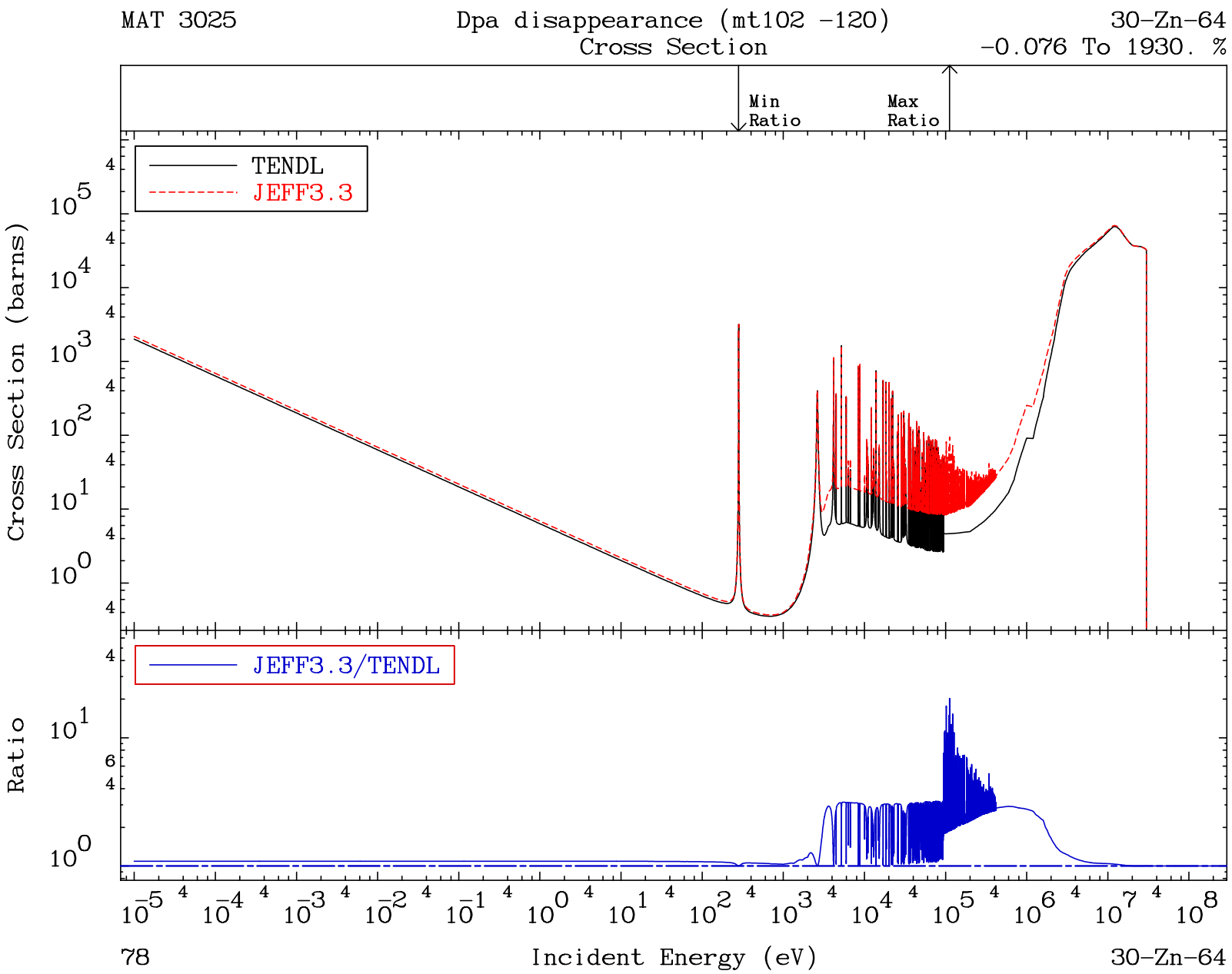

MAT 3025
Total photon (eV-barns)
Cross Section
30-Zn-64
-99.45 To 4204. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
30-Zn-64

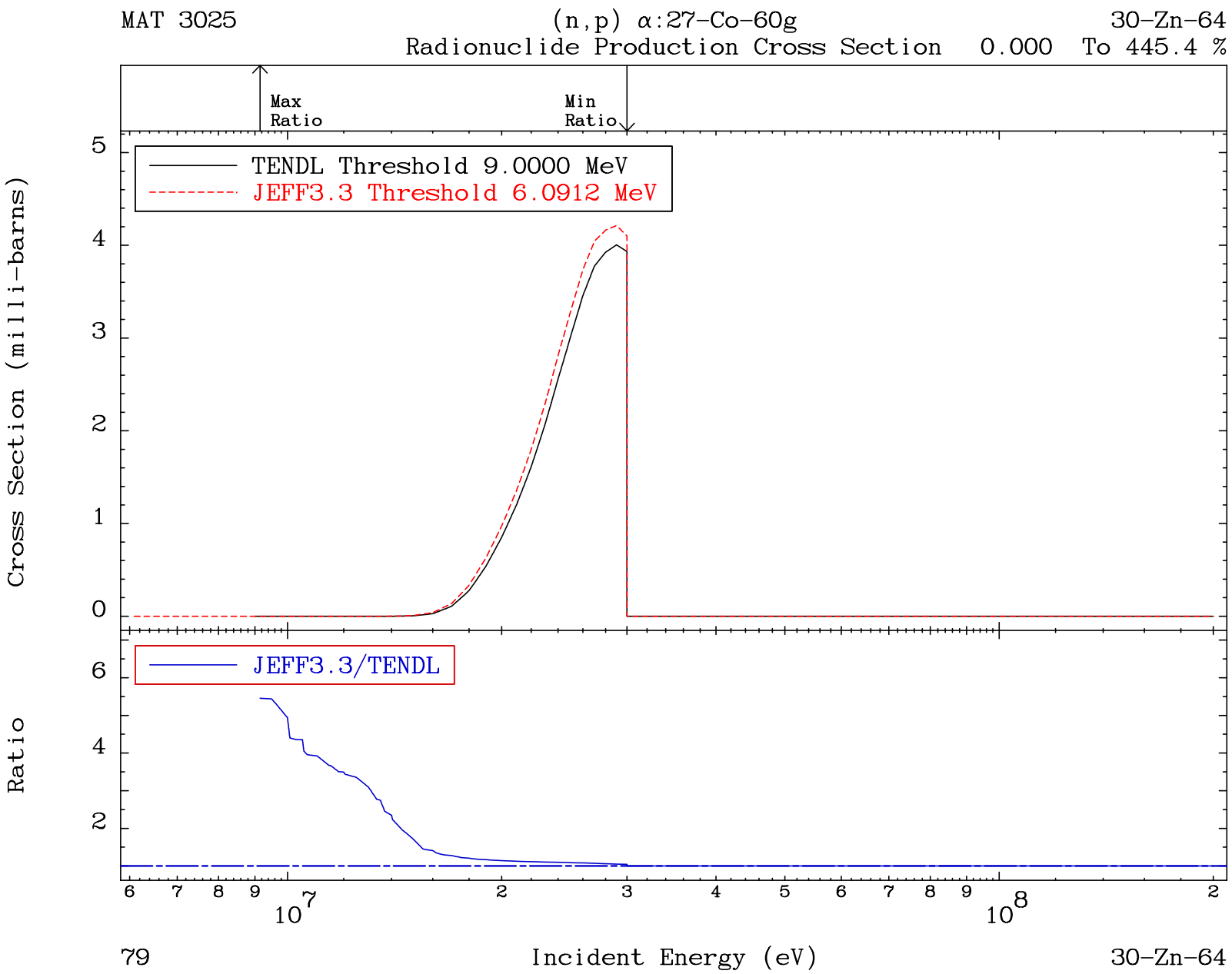

MAT 3025
Total kinematic kerma (high limit)
Cross Section
30-Zn-64
-97.45 To 731.8 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
30-Zn-64

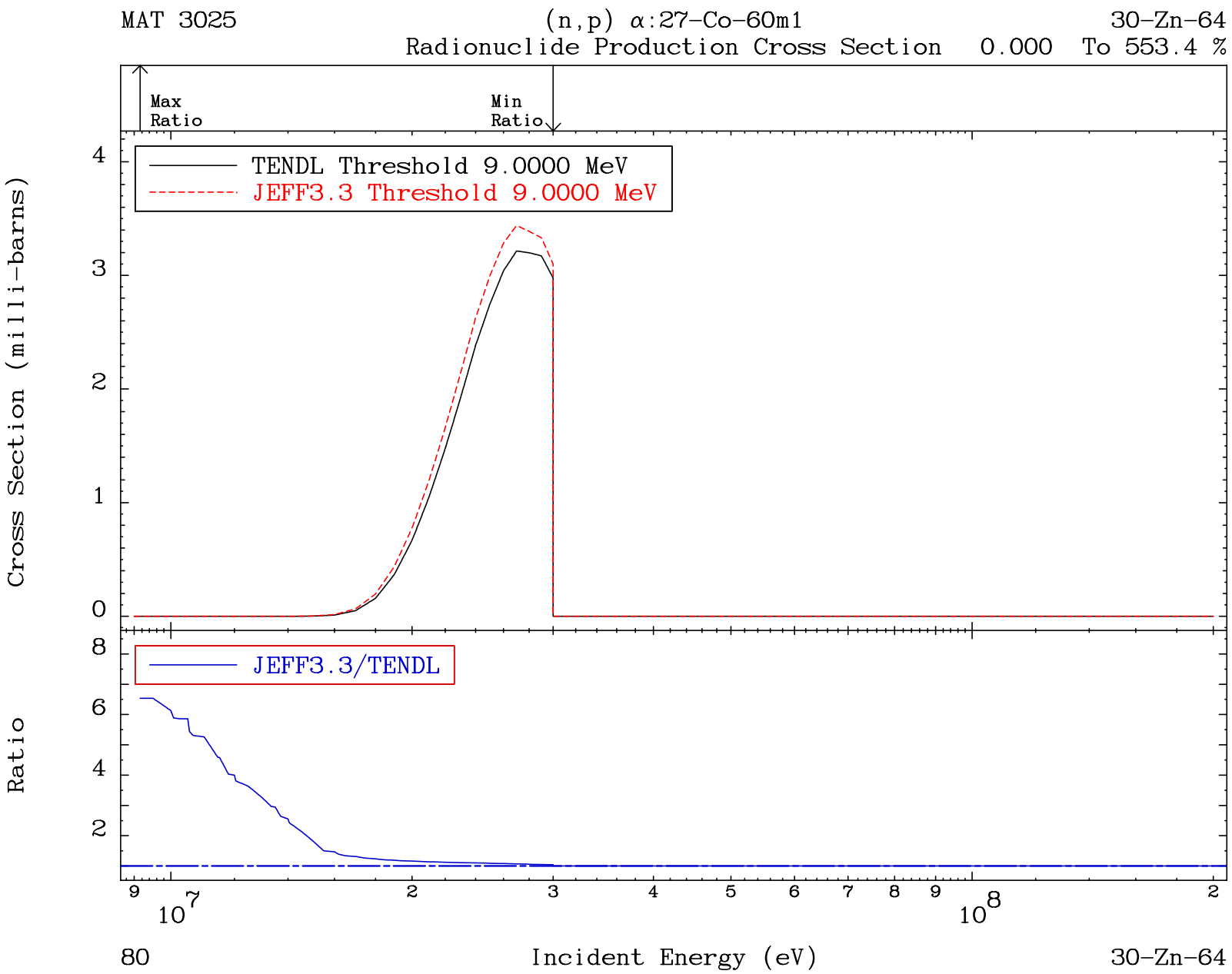

MAT 3025
Dpa total (eV-barns)
Cross Section
30-Zn-64
-98.04 To 1052. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
30-Zn-64


MAT 3025
Dpa elastic (mt2)
Cross Section
30-Zn-64
-98.08 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 377.35 eV
JEFF3.3 Threshold 378.94 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
30-Zn-64


MAT 3025
Dpa inelastic (mt51-91)
Cross Section
30-Zn-64
-2.950 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.0072 MeV
JEFF3.3 Threshold 1.0072 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
77
30-Zn-64


MAT 3025
Dpa disappearance (mt102 -120)
Cross Section
30-Zn-64
-0.076 To 1930. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
78
30-Zn-64


MAT 3025
(n,p) α:27-Co-60g
30-Zn-64
Radionuclide Production Cross Section 0.000 To 445.4 %
Max Ratio
Min Ratio
TENDL Threshold 9.0000 MeV
JEFF3.3 Threshold 6.0912 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
79
30-Zn-64


MAT 3025
(n,p) α:27-Co-60m1
30-Zn-64
Radionuclide Production Cross Section 0.000 To 553.4 %
Max Ratio
Min Ratio
TENDL Threshold 9.0000 MeV
JEFF3.3 Threshold 9.0000 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
80
30-Zn-64