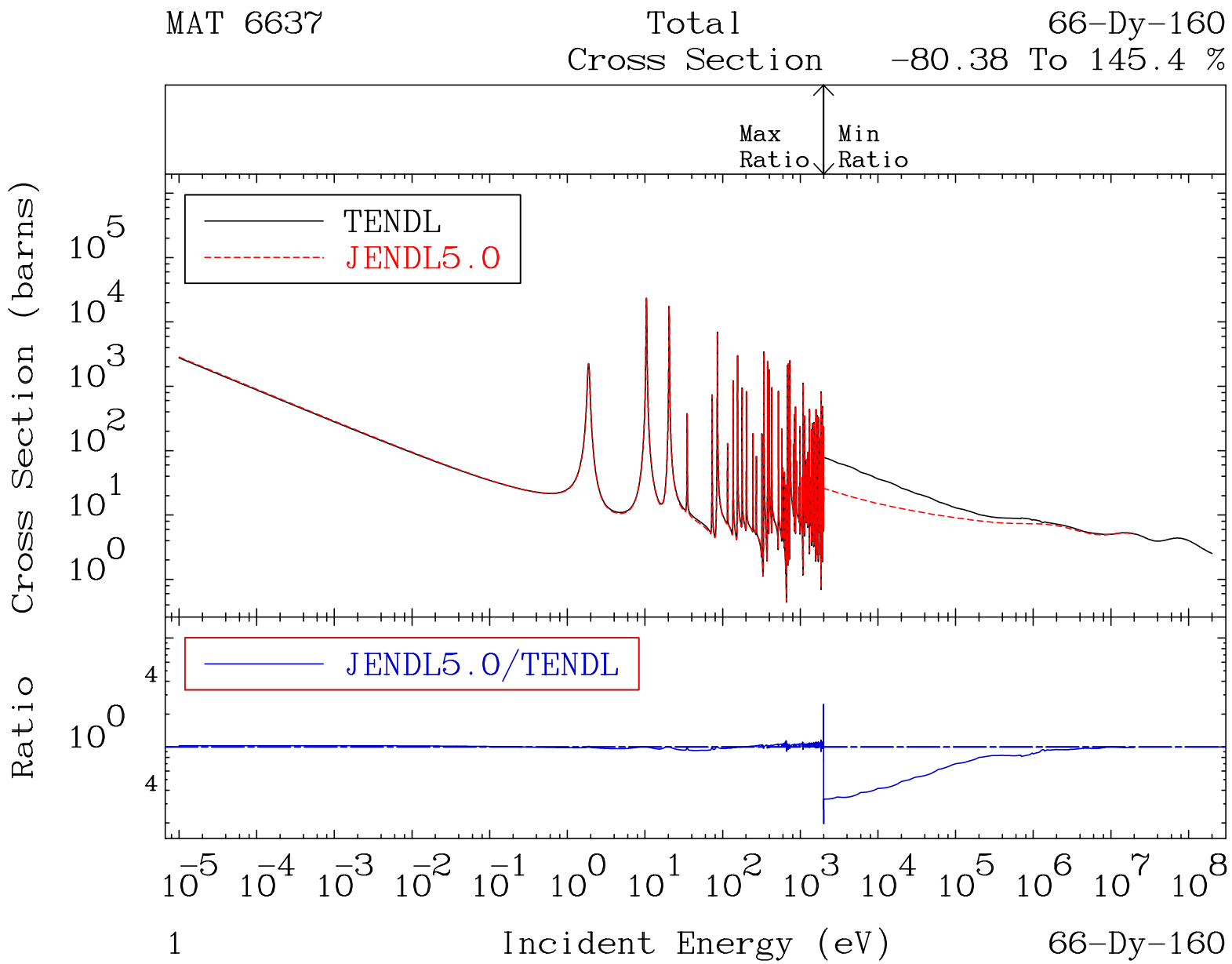
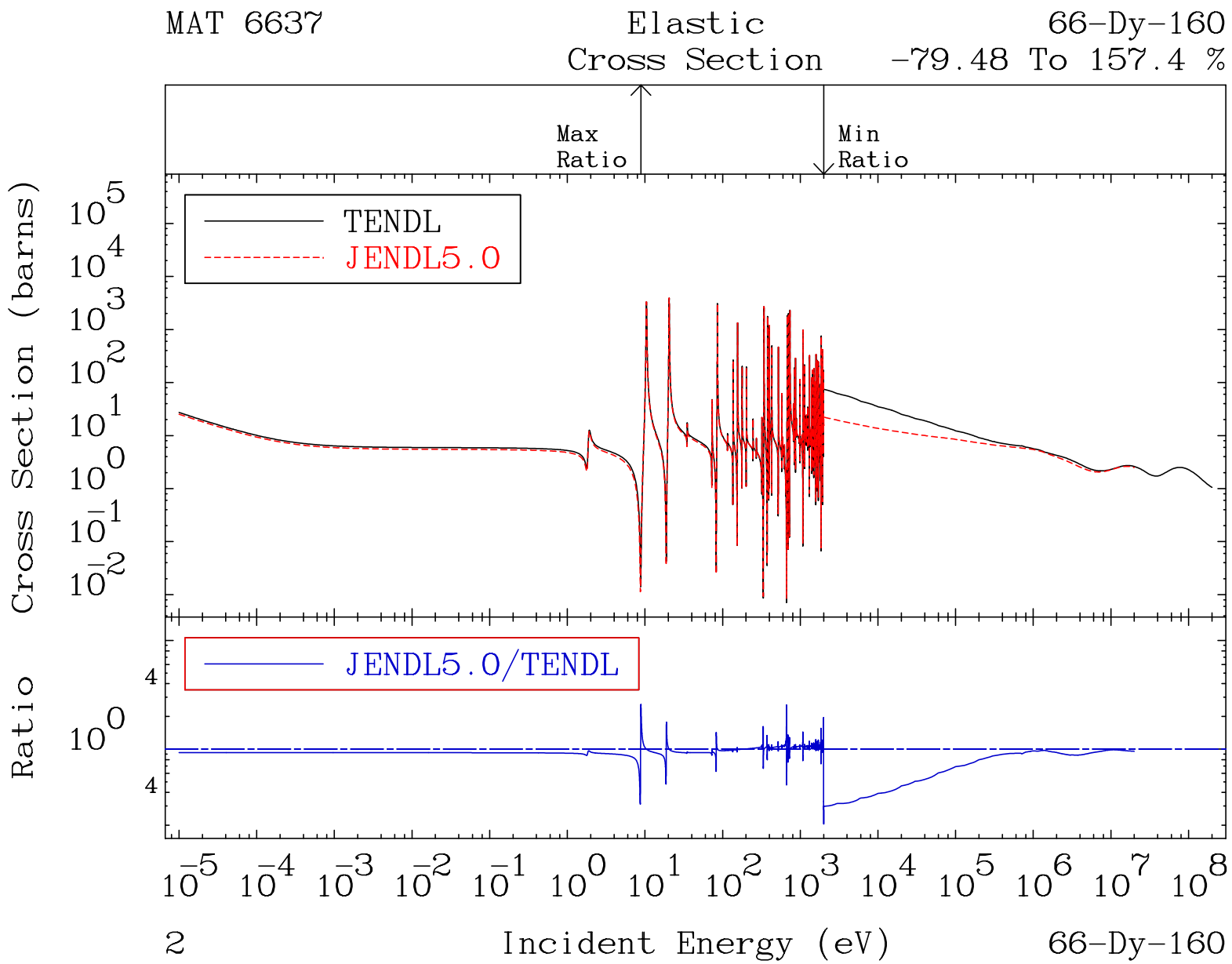
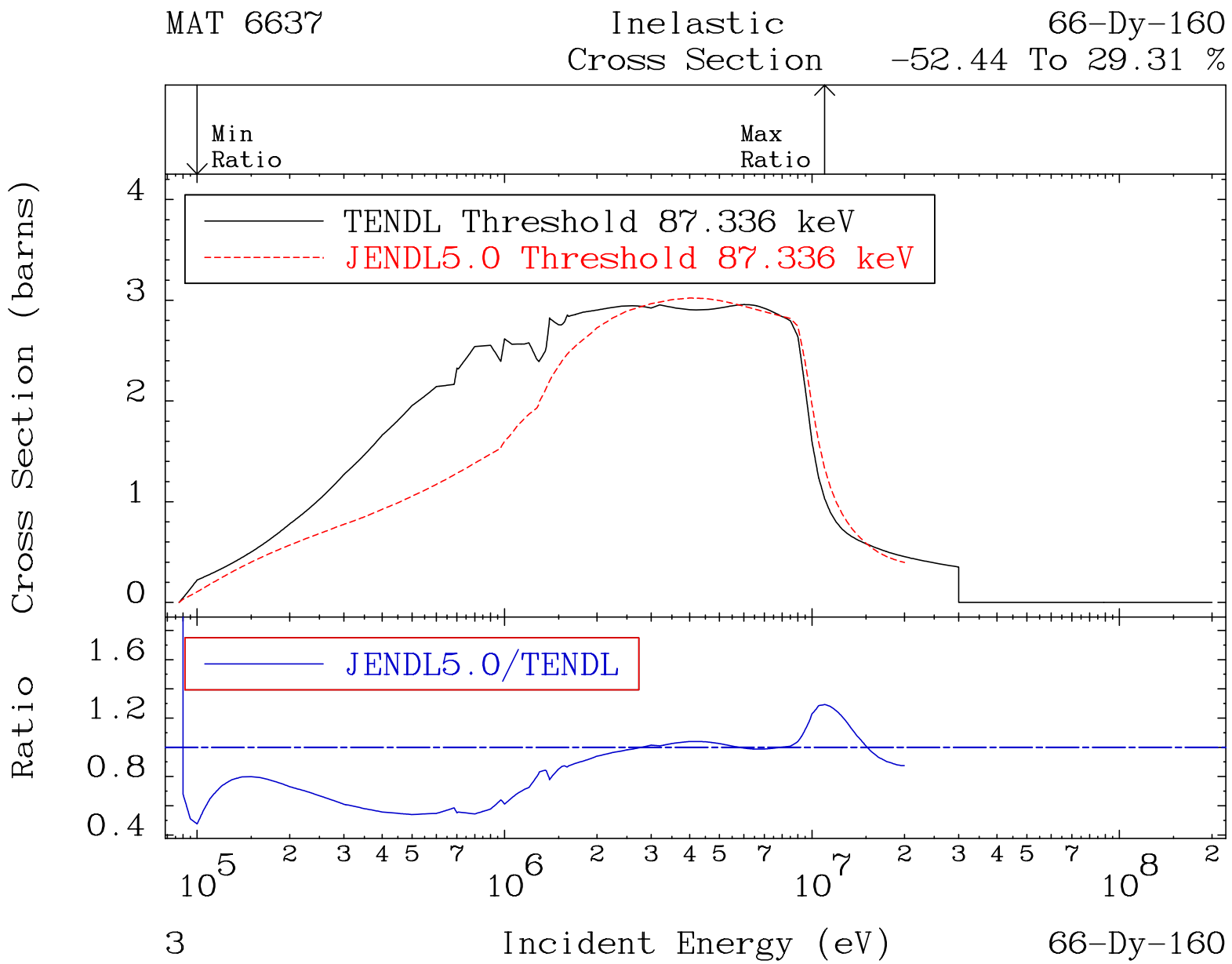
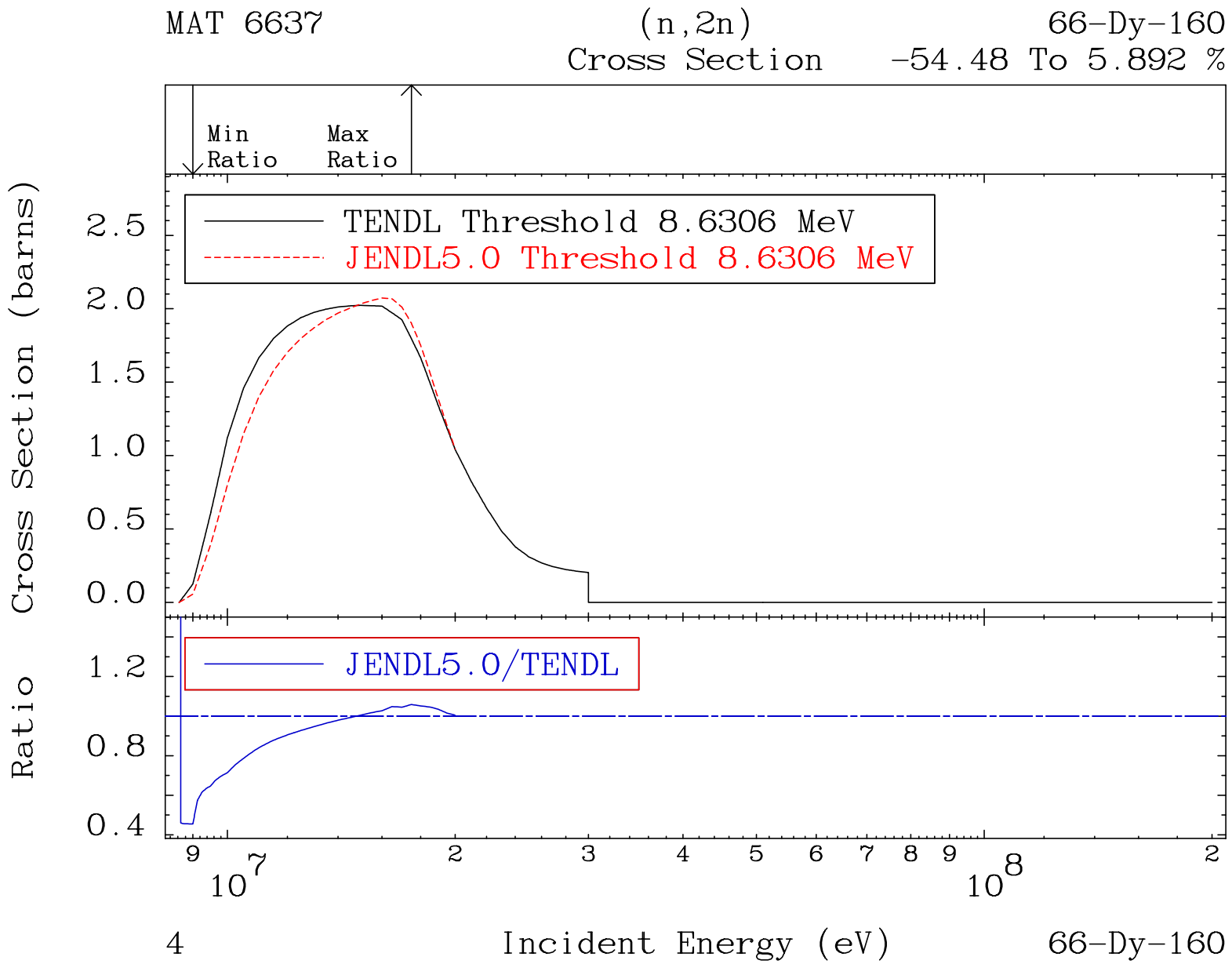
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

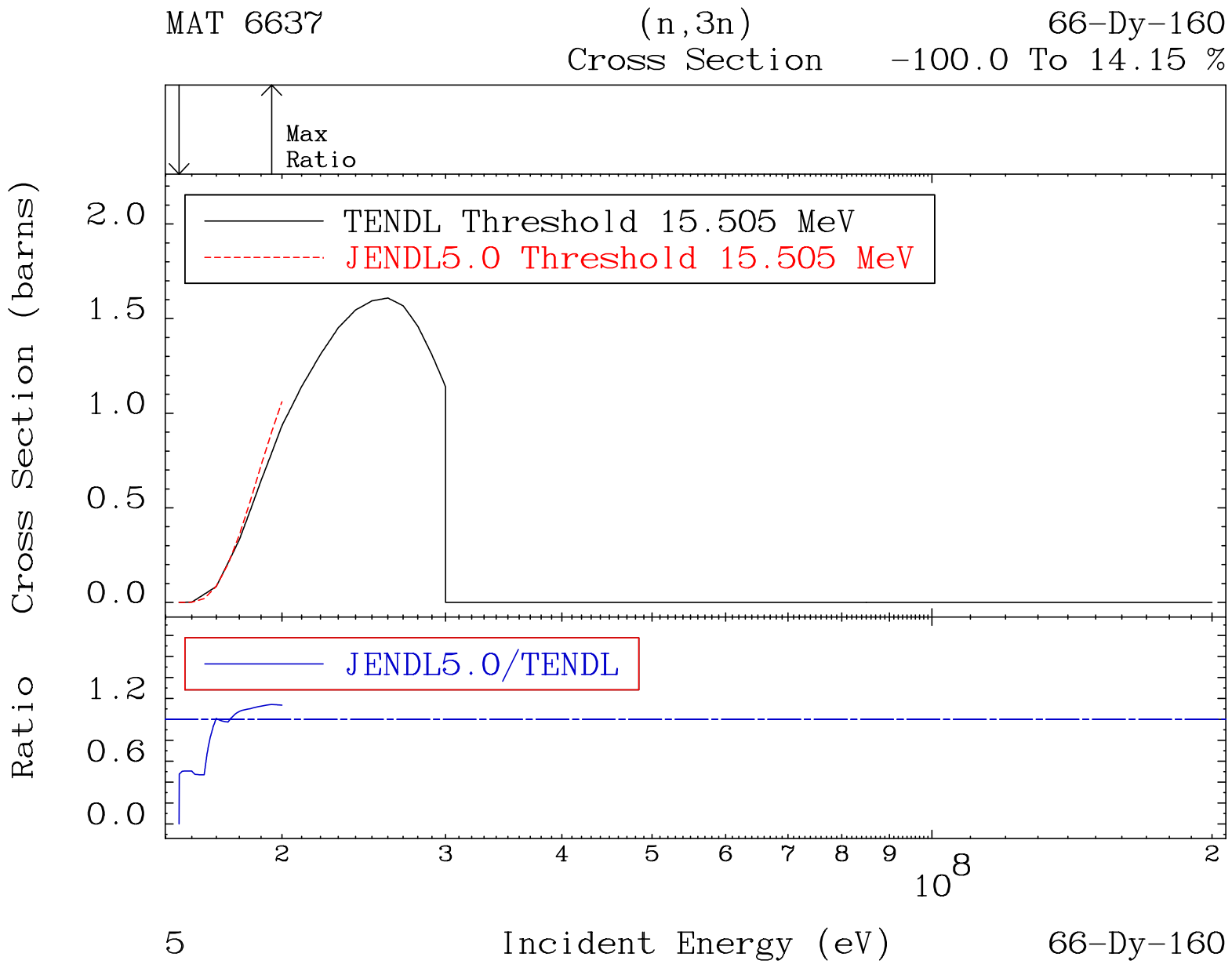
Press Mouse Button to Start

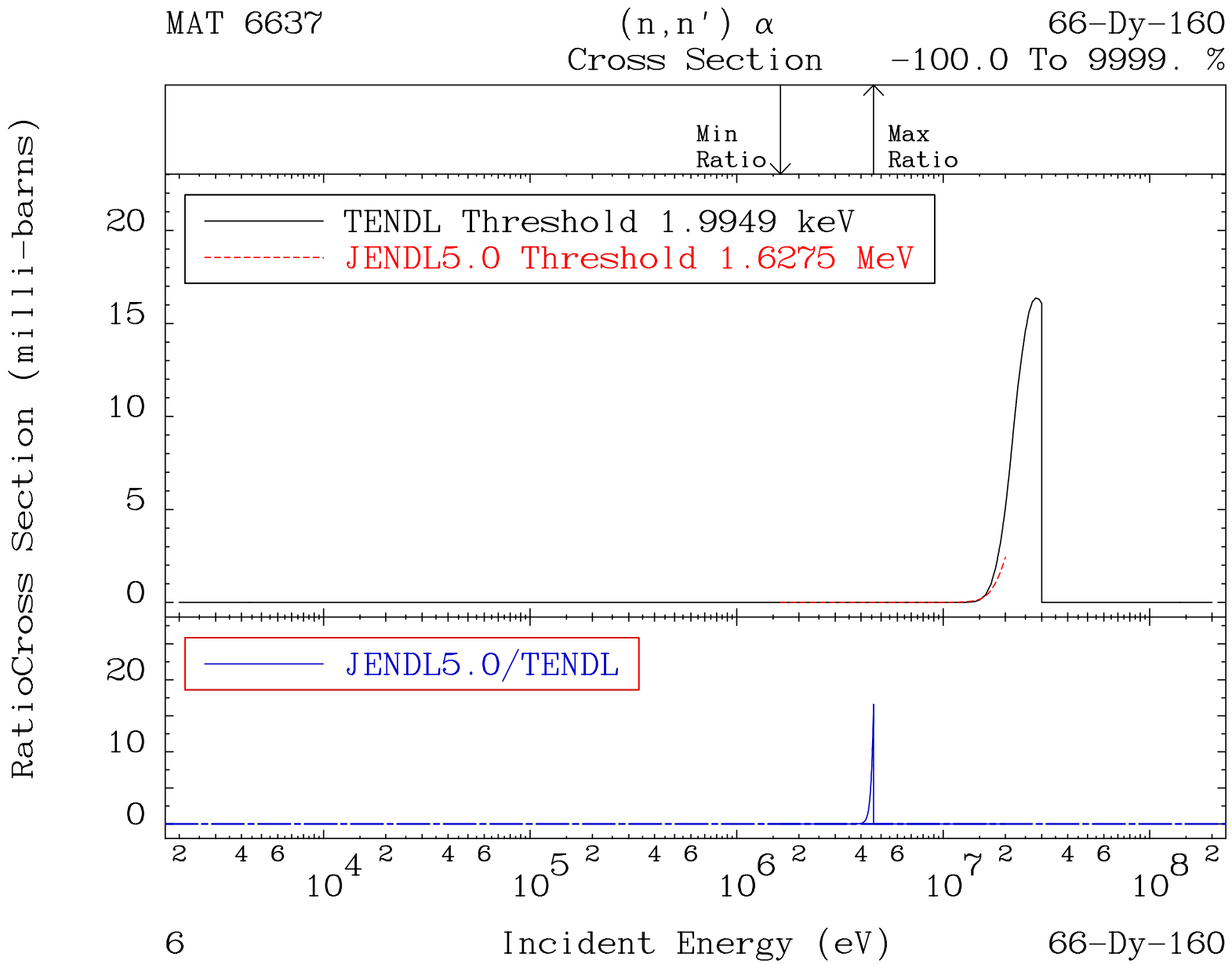

MAT 6637
Total
Cross Section
66-Dy-160
-80.38 To 145.4 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
66-Dy-160

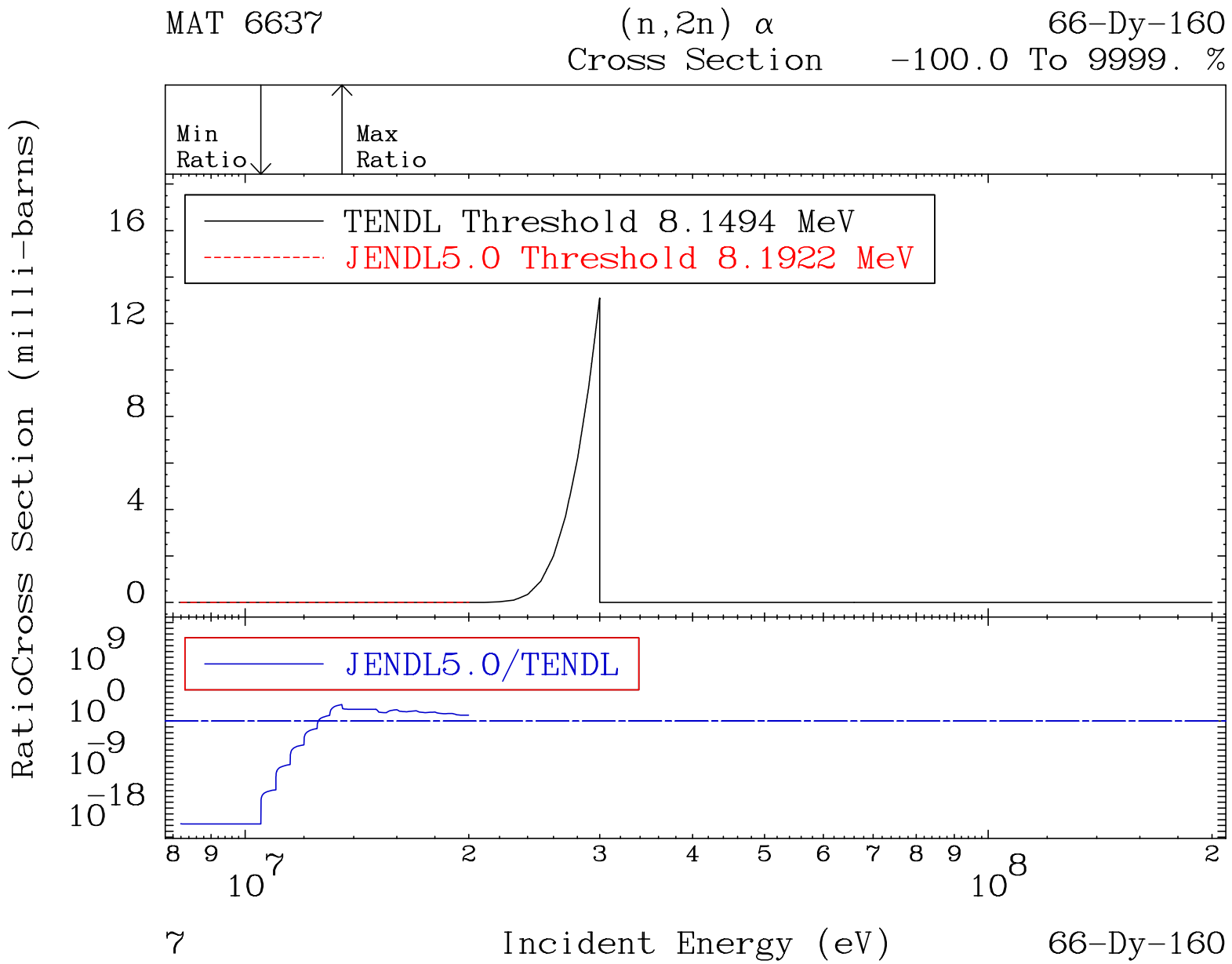

MAT 6637
Elastic
Cross Section
66-Dy-160
-79.48 To 157.4 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
66-Dy-160
2

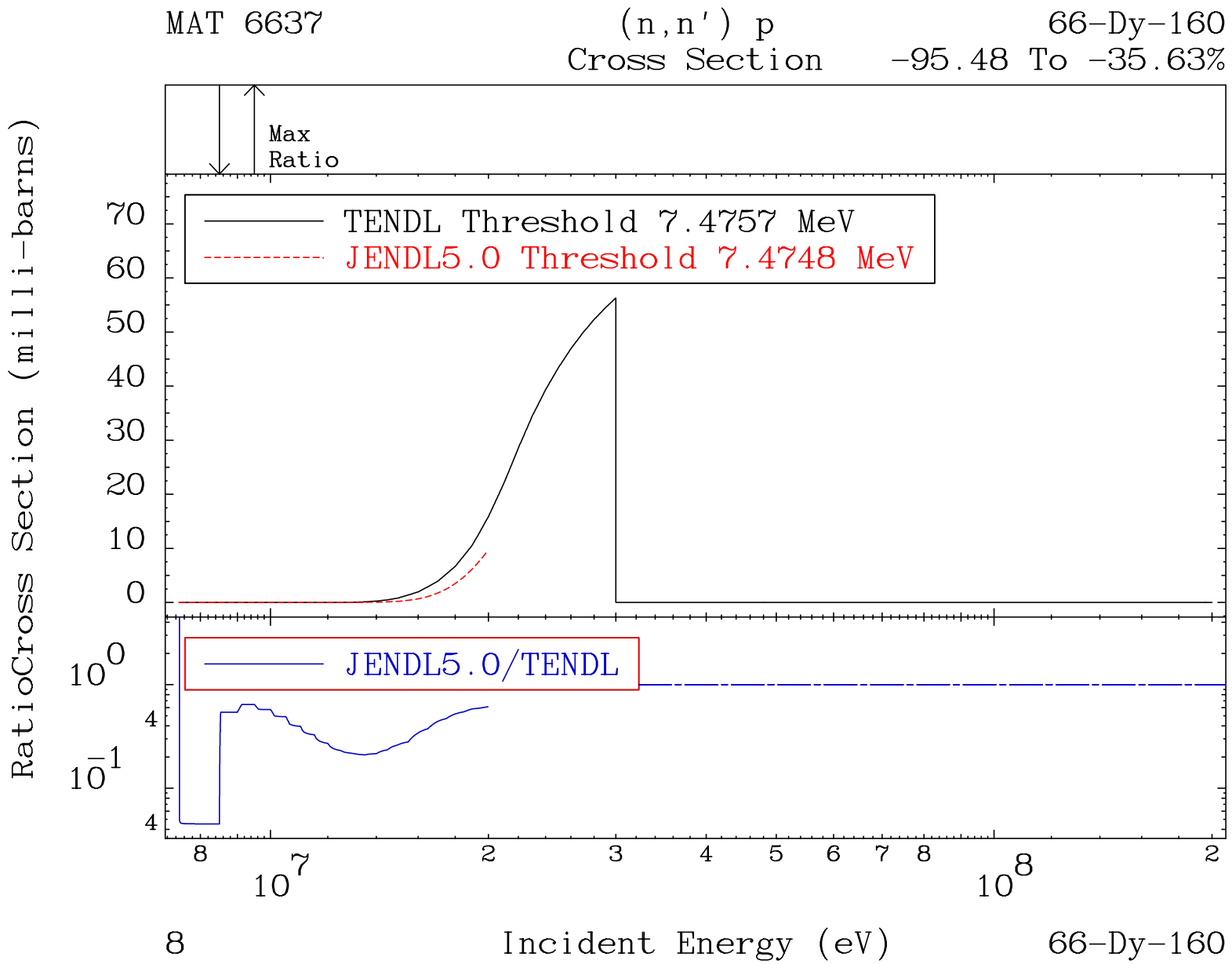

MAT 6637
Inelastic
Cross Section
66-Dy-160
-52.44 To 29.31 %
Min
Ratio
Max
Ratio
TENDL Threshold 87.336 keV
JENDL5.0 Threshold 87.336 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
66-Dy-160

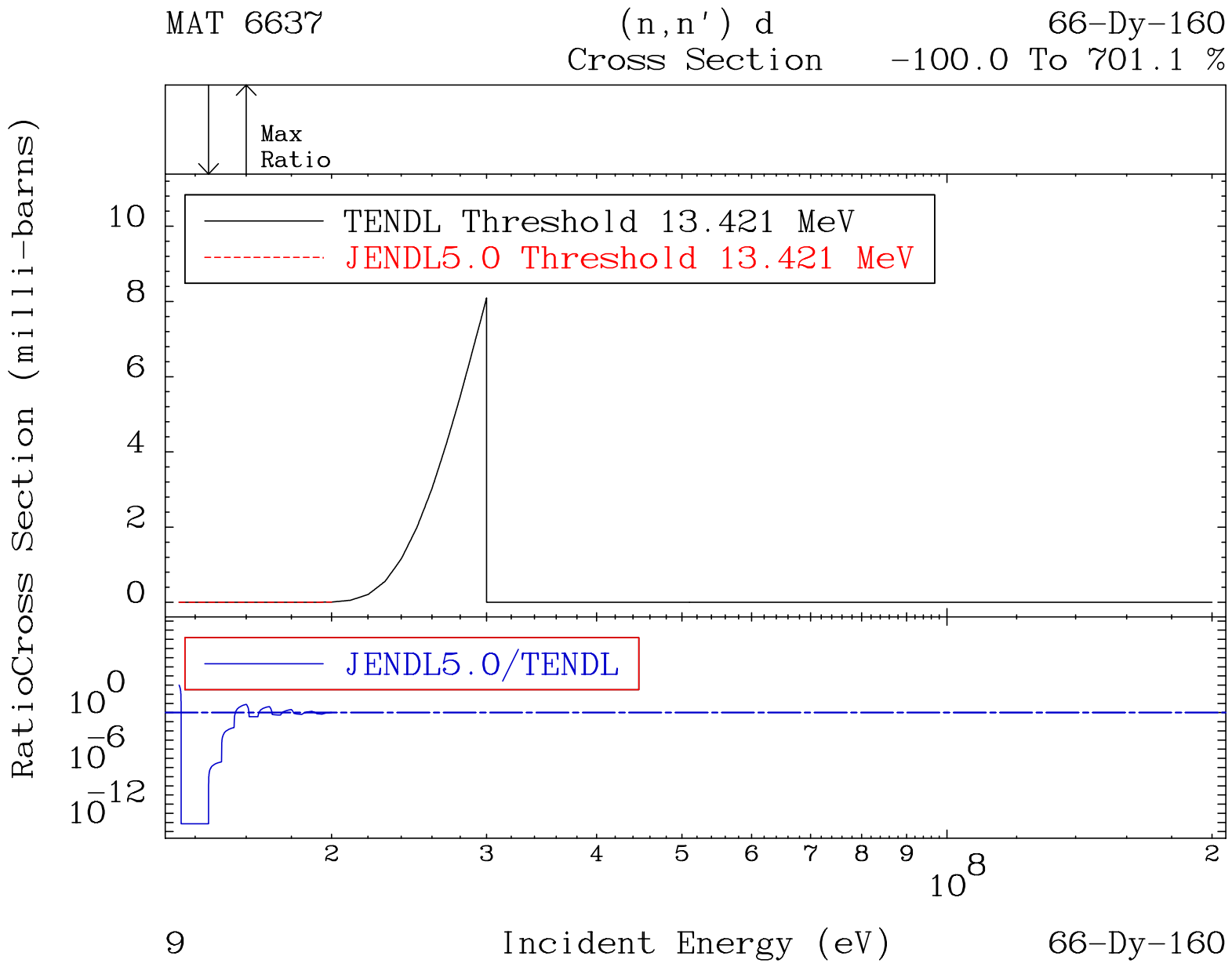

MAT 6637
(n,2n)
Cross Section
66-Dy-160
-54.48 To 5.892 %
Min Ratio
Max Ratio
TENDL Threshold 8.6306 MeV
JENDL5.0 Threshold 8.6306 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66-Dy-160
4

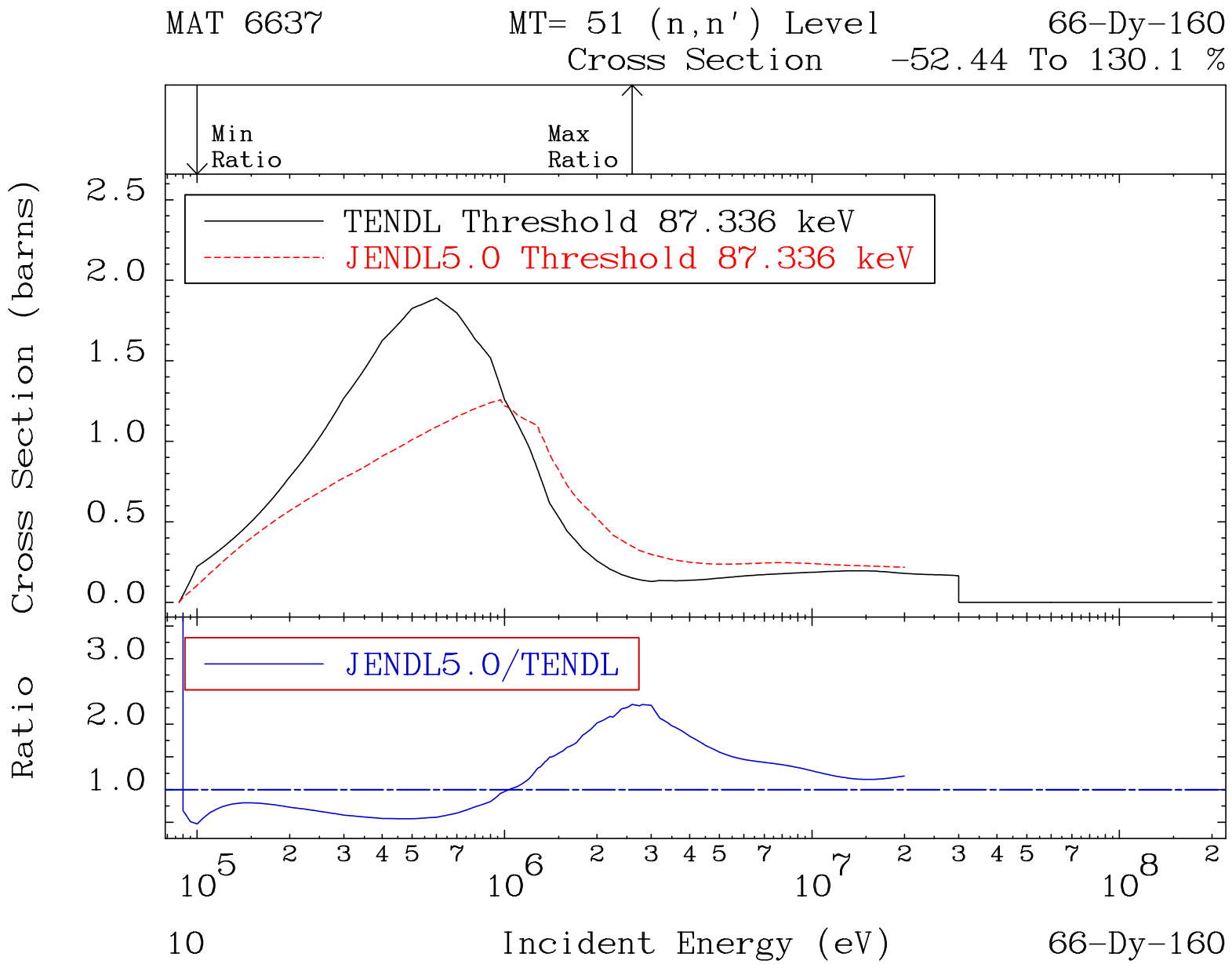

MAT 6637
(n,3n)
66-Dy-160
Cross Section
-100.0 To 14.15 %
Max
Ratio
TENDL Threshold 15.505 MeV
JENDL5.0 Threshold 15.505 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
66-Dy-160

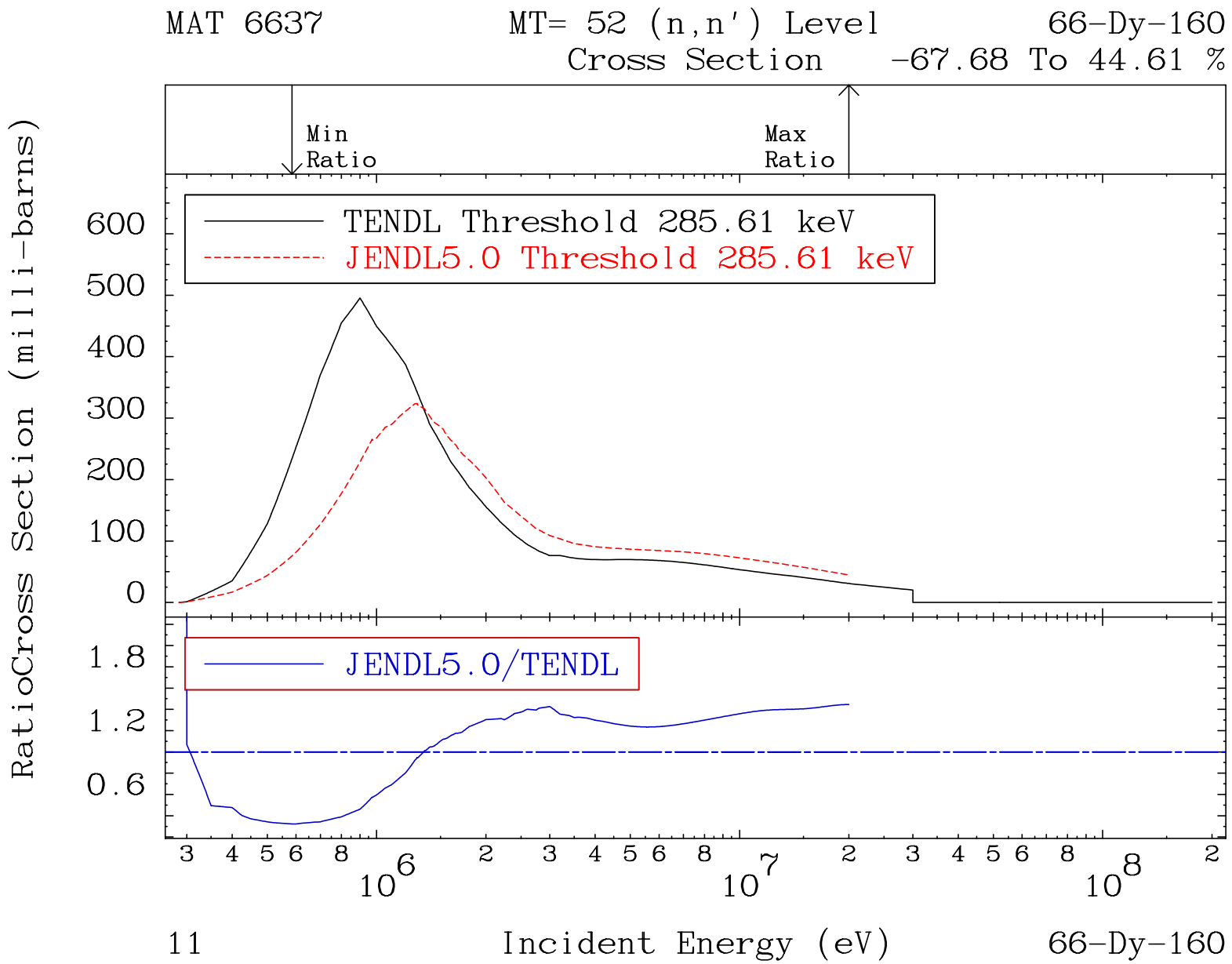

MAT 6637
(n,n') α
Cross Section
66-Dy-160
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9949 keV
JENDL5.0 Threshold 1.6275 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
66-Dy-160

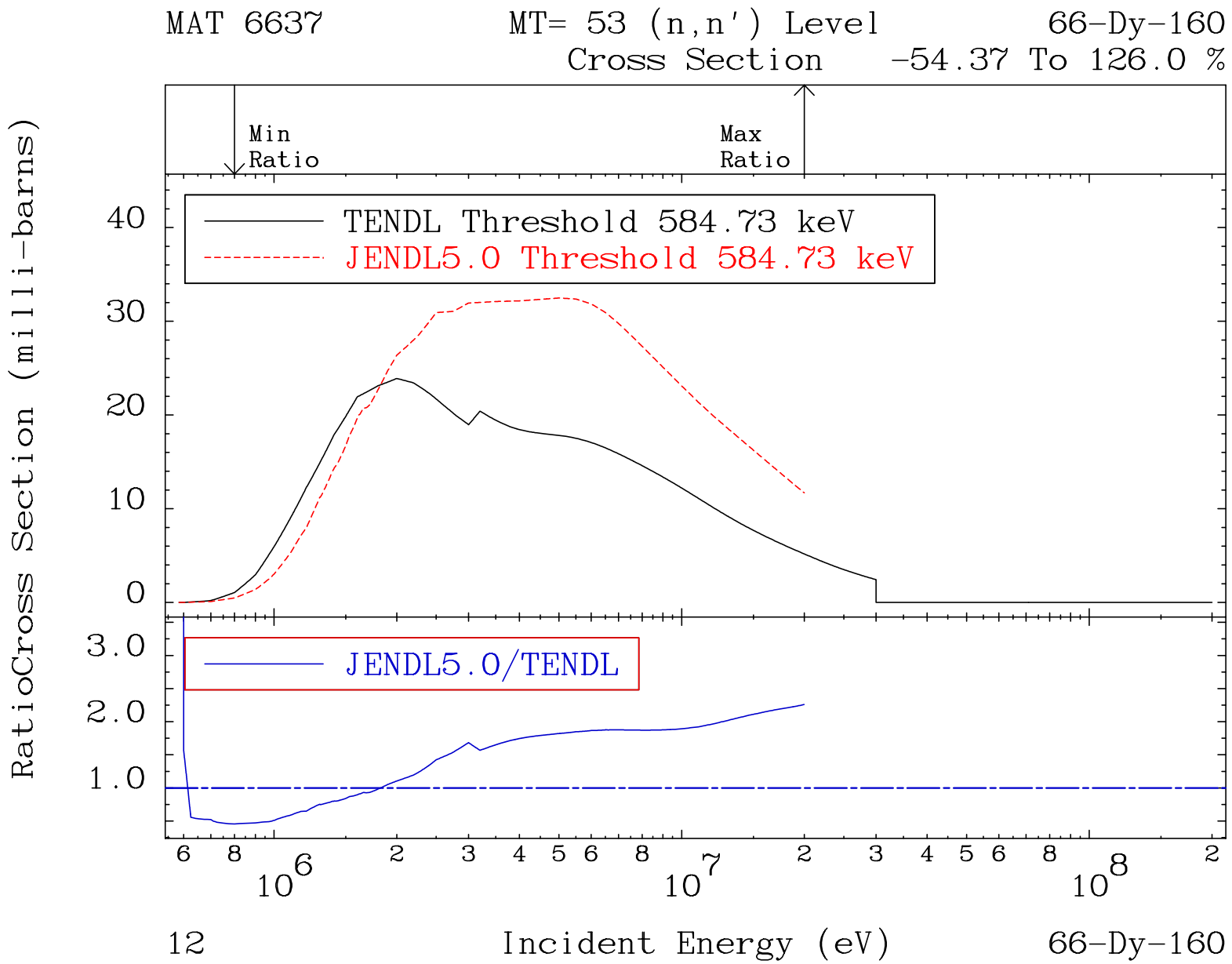

MAT 6637
(n,2n) α
66-Dy-160
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.1494 MeV
JENDL5.0 Threshold 8.1922 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66-Dy-160

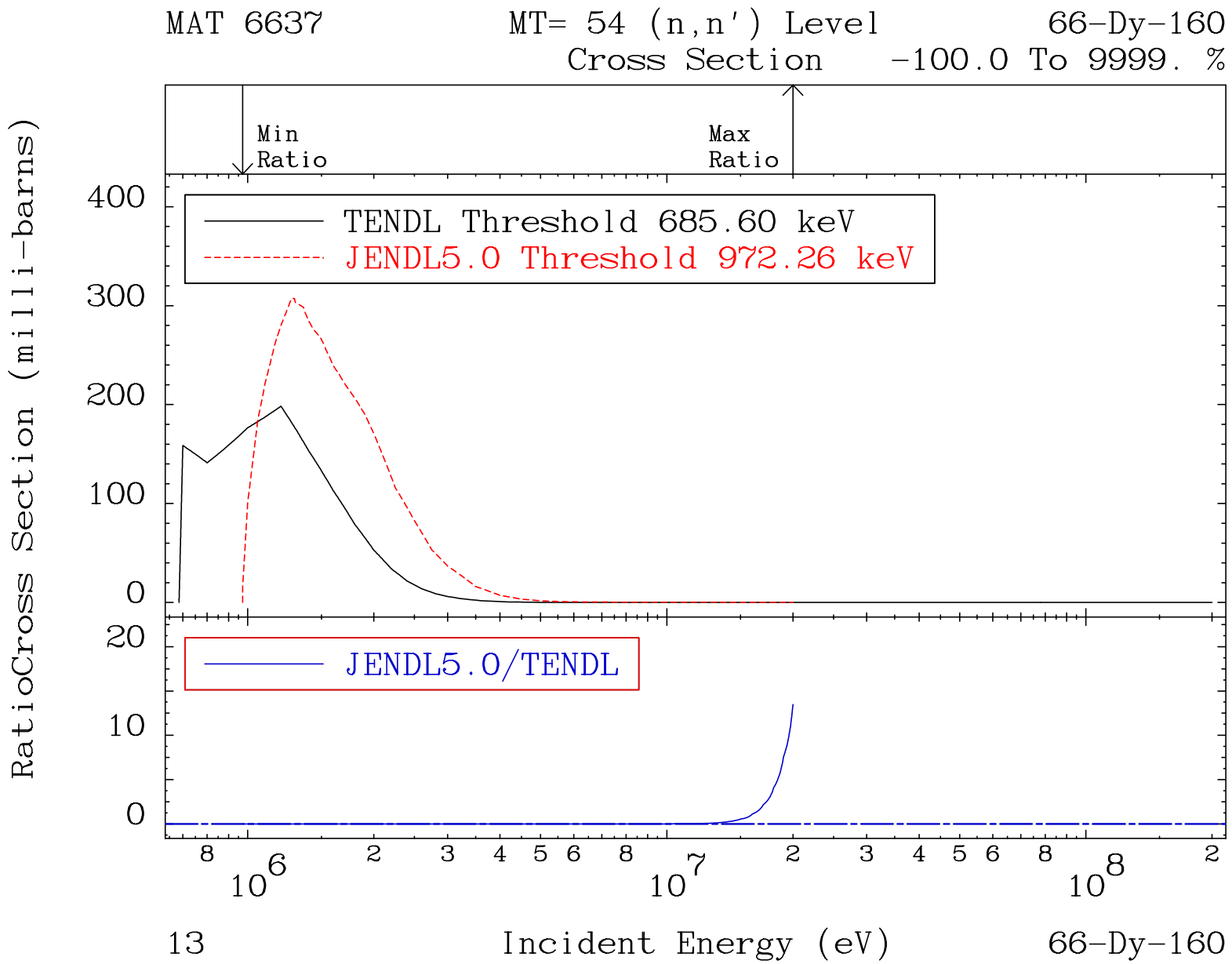

MAT 6637
(n,n') p
Cross Section
66-Dy-160
-95.48 To -35.63%
Max
Ratio
TENDL Threshold 7.4757 MeV
JENDL5.0 Threshold 7.4748 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66-Dy-160

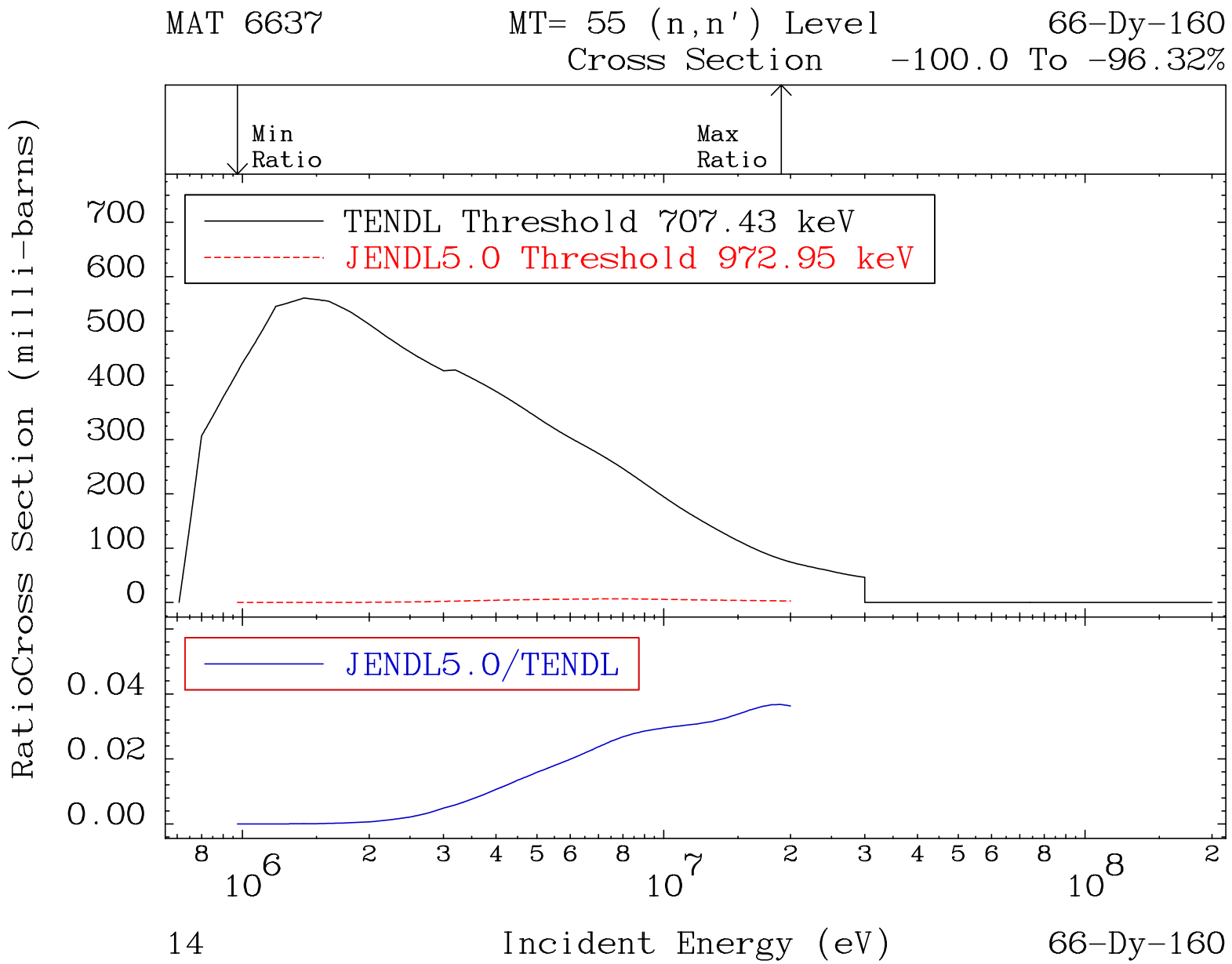

MAT 6637
(n,n') d
Cross Section
66-Dy-160
-100.0 To 701.1 %
Max
Ratio
TENDL Threshold 13.421 MeV
JENDL5.0 Threshold 13.421 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
66-Dy-160

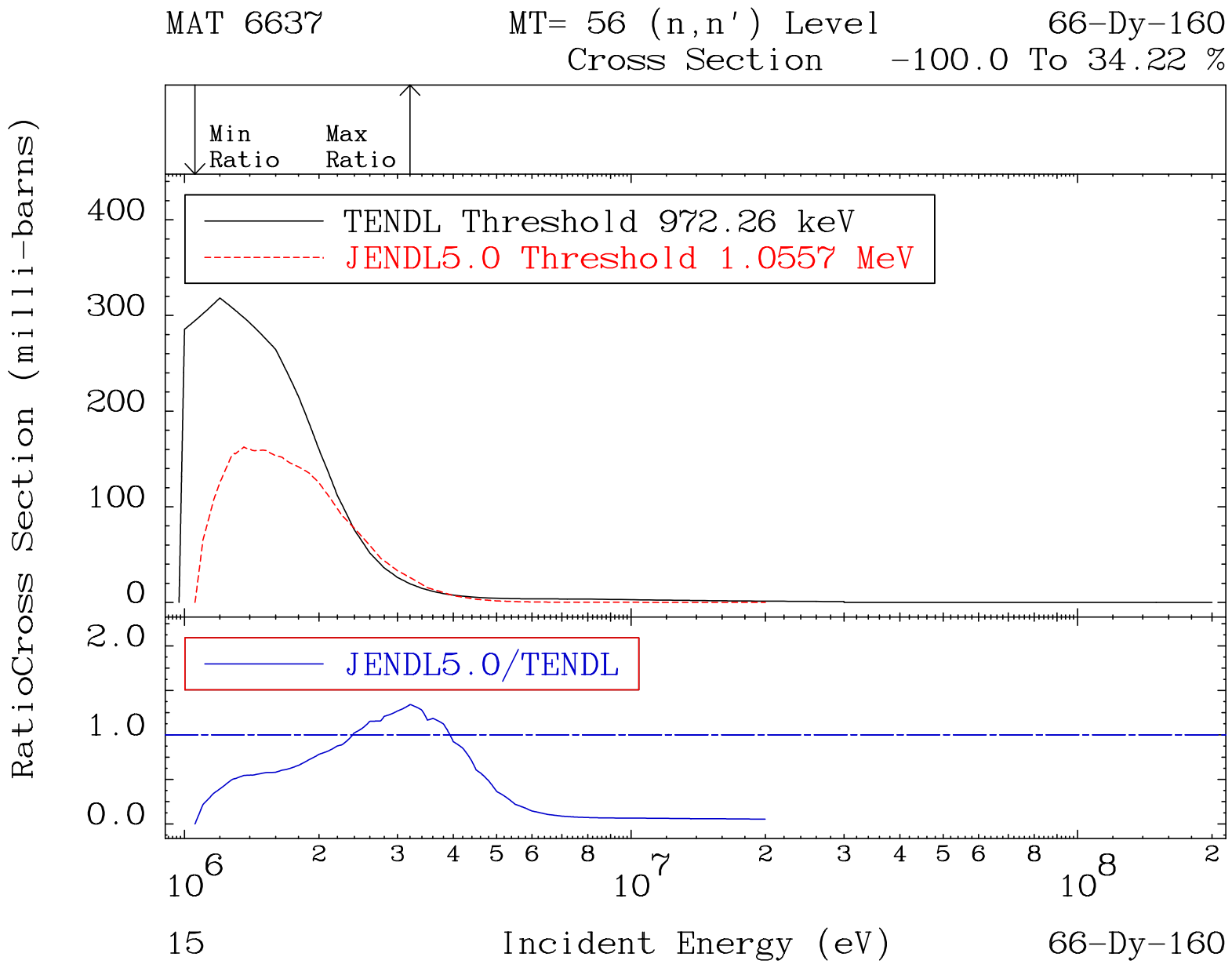

MAT 6637
MT= 51 (n,n') Level
66-Dy-160
Cross Section -52.44 To 130.1 %
Min Ratio
Max Ratio
TENDL Threshold 87.336 keV
JENDL5.0 Threshold 87.336 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66-Dy-160

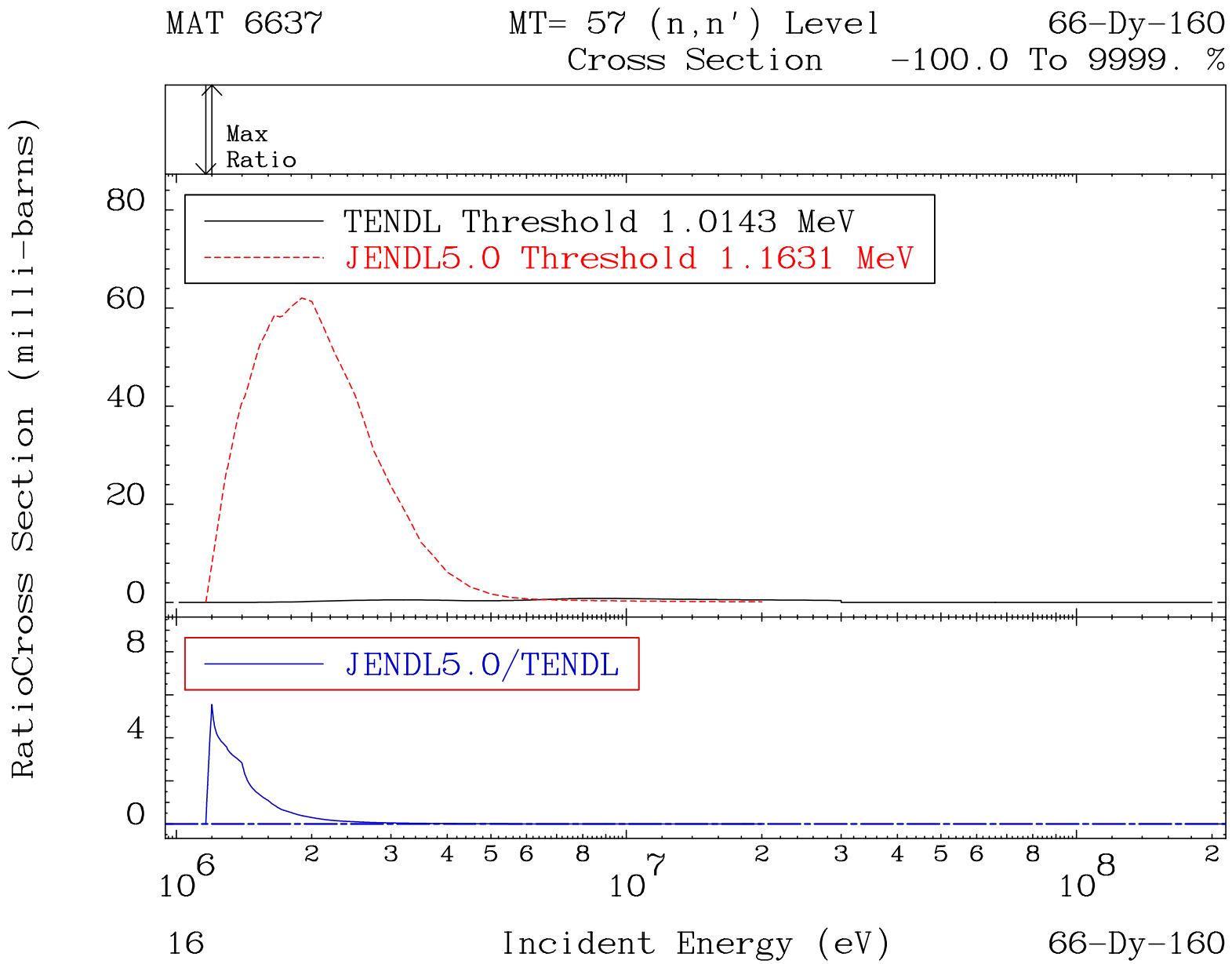

MAT 6637
MT= 52 (n,n') Level
66-Dy-160
Cross Section
-67.68 To 44.61 %
Min Ratio
Max Ratio
TENDL Threshold 285.61 keV
JENDL5.0 Threshold 285.61 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
1.8
1.2
0.6
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
66-Dy-160

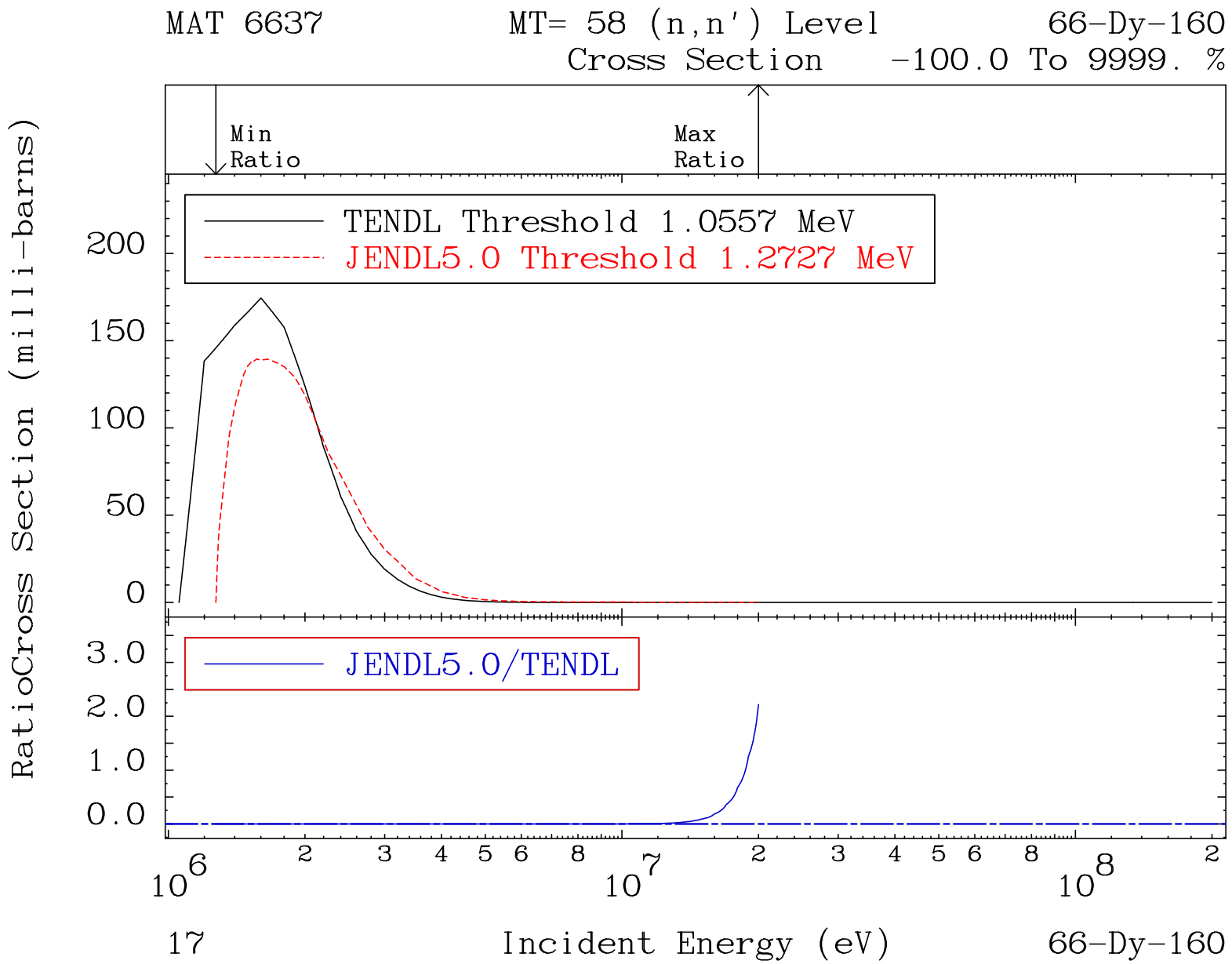

MAT 6637
MT= 53 (n,n') Level
66-Dy-160
Cross Section
-54.37 To 126.0 %
Min Ratio
Max Ratio
TENDL Threshold 584.73 keV
JENDL5.0 Threshold 584.73 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
12
Incident Energy (eV)
66-Dy-160

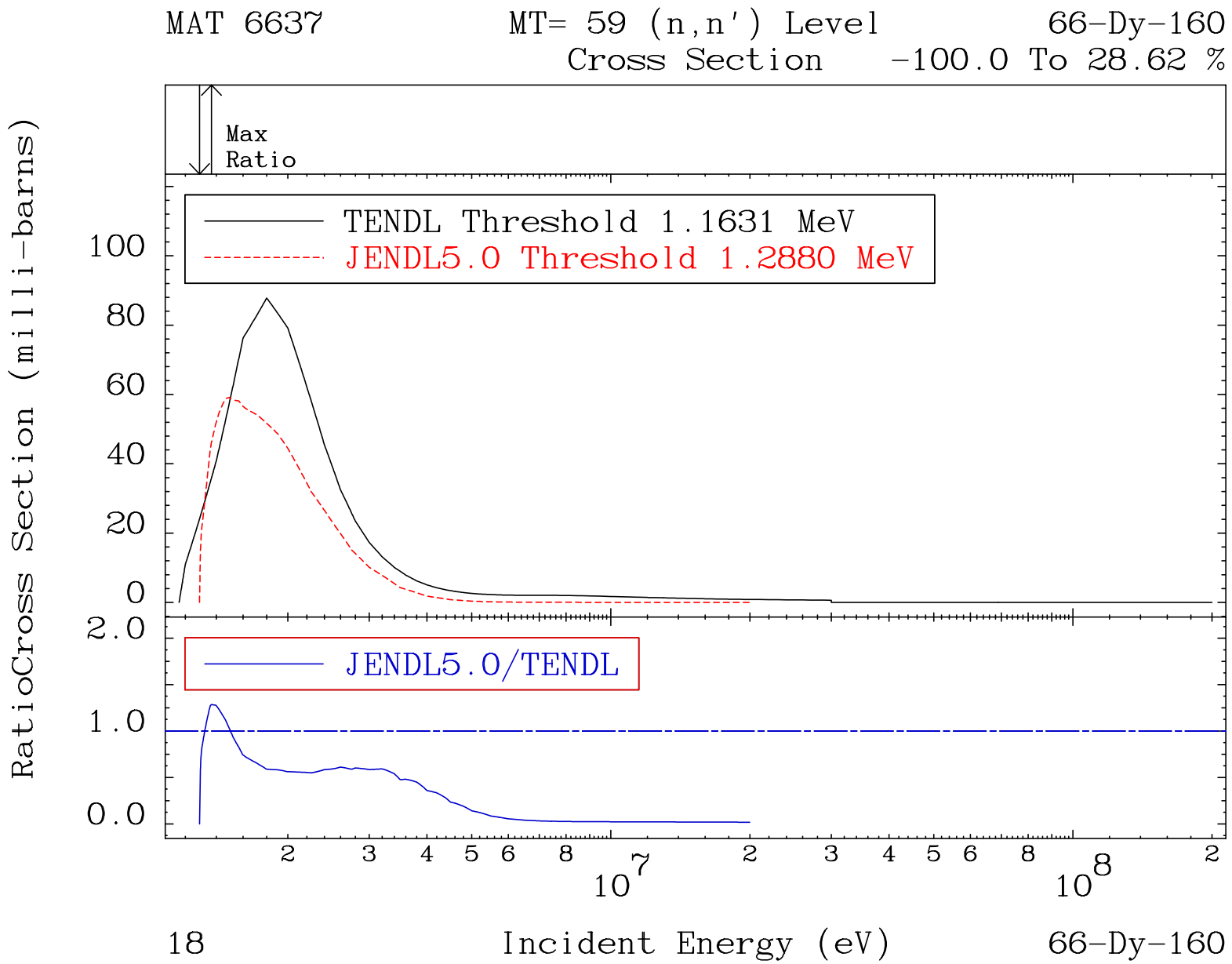

MAT 6637
MT= 54 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 685.60 keV
JENDL5.0 Threshold 972.26 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
20
10
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
13
Incident Energy (eV)
66-Dy-160

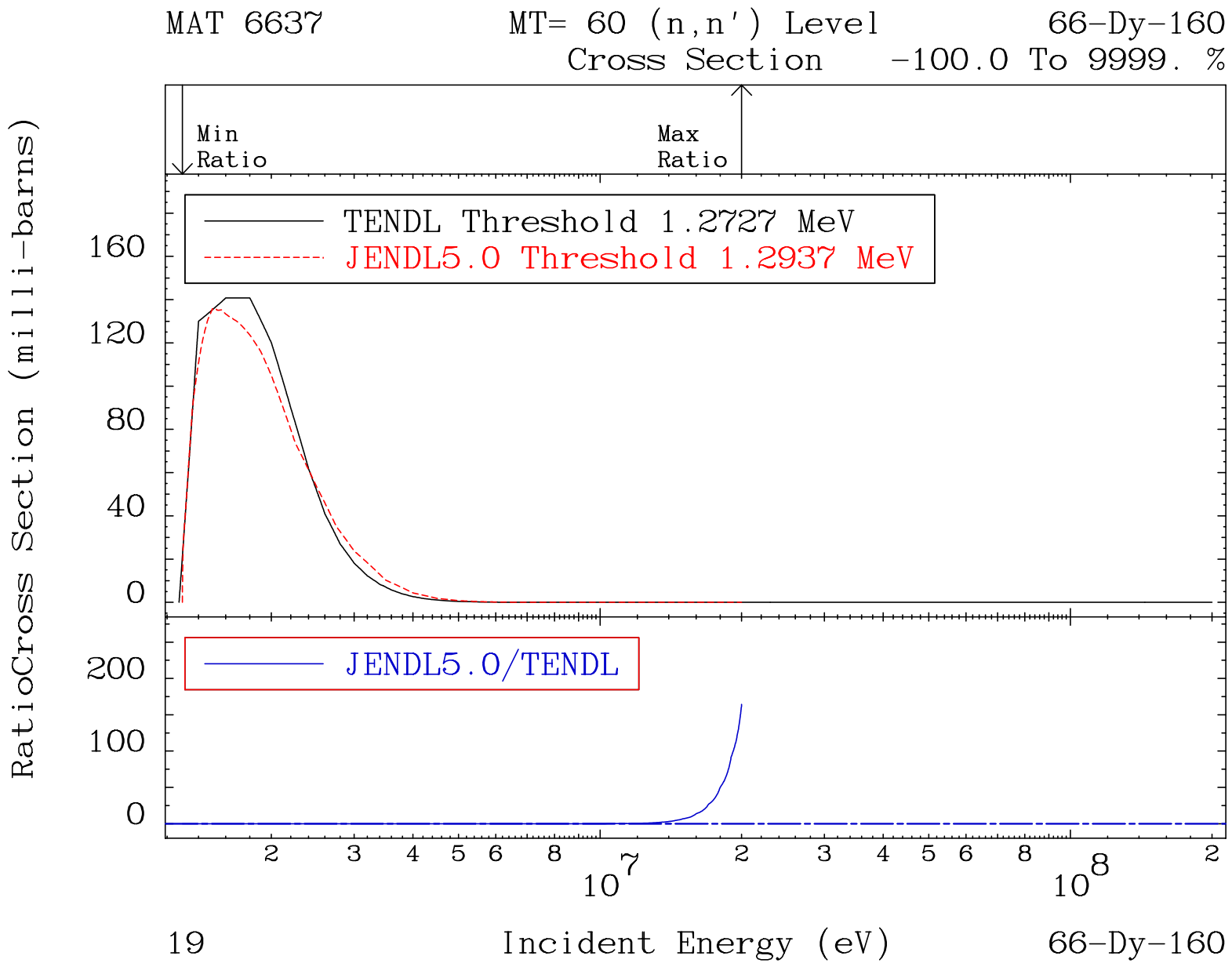

MAT 6637
MT= 55 (n,n') Level
66-Dy-160
Cross Section
-100.0 To -96.32%
Min Ratio
Max Ratio
TENDL Threshold 707.43 keV
JENDL5.0 Threshold 972.95 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
0.04
0.02
0.00
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
14
Incident Energy (eV)
66-Dy-160

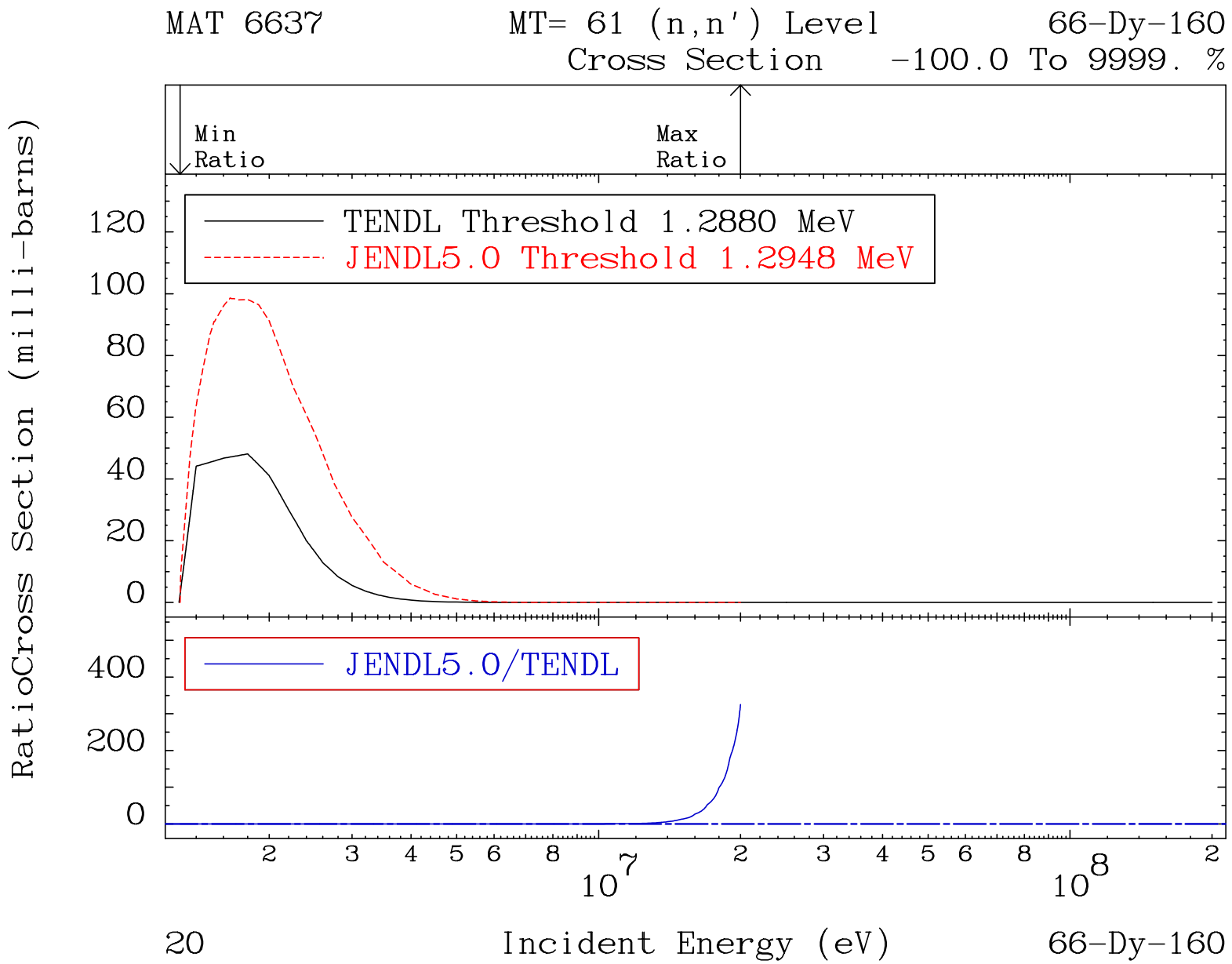

MAT 6637
MT= 56 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 34.22 %
Min Ratio
Max Ratio
TENDL Threshold 972.26 keV
JENDL5.0 Threshold 1.0557 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.0
1.0
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
15
Incident Energy (eV)
66-Dy-160

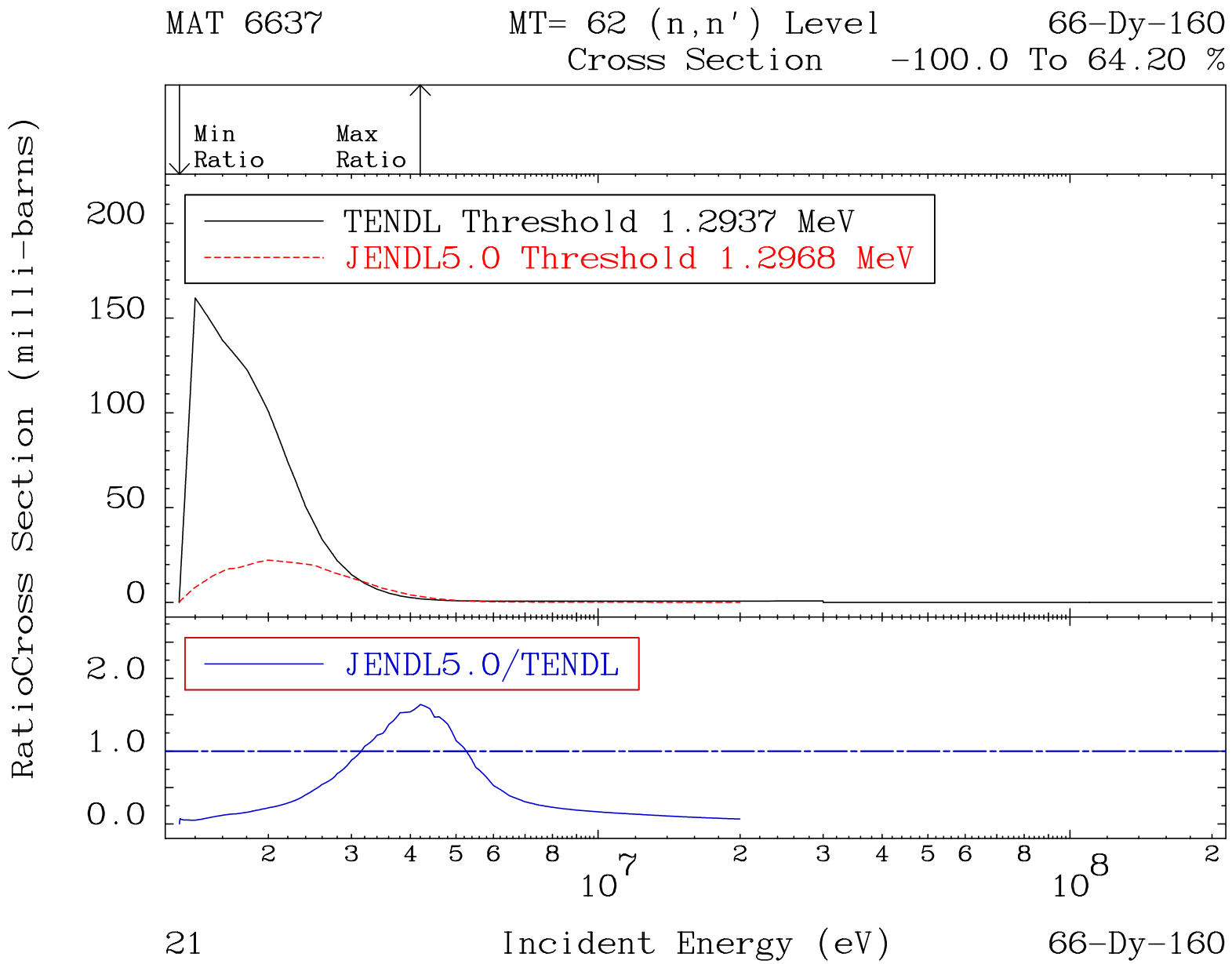

MAT 6637
MT= 57 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 1.0143 MeV
JENDL5.0 Threshold 1.1631 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
8
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
16
Incident Energy (eV)
66-Dy-160

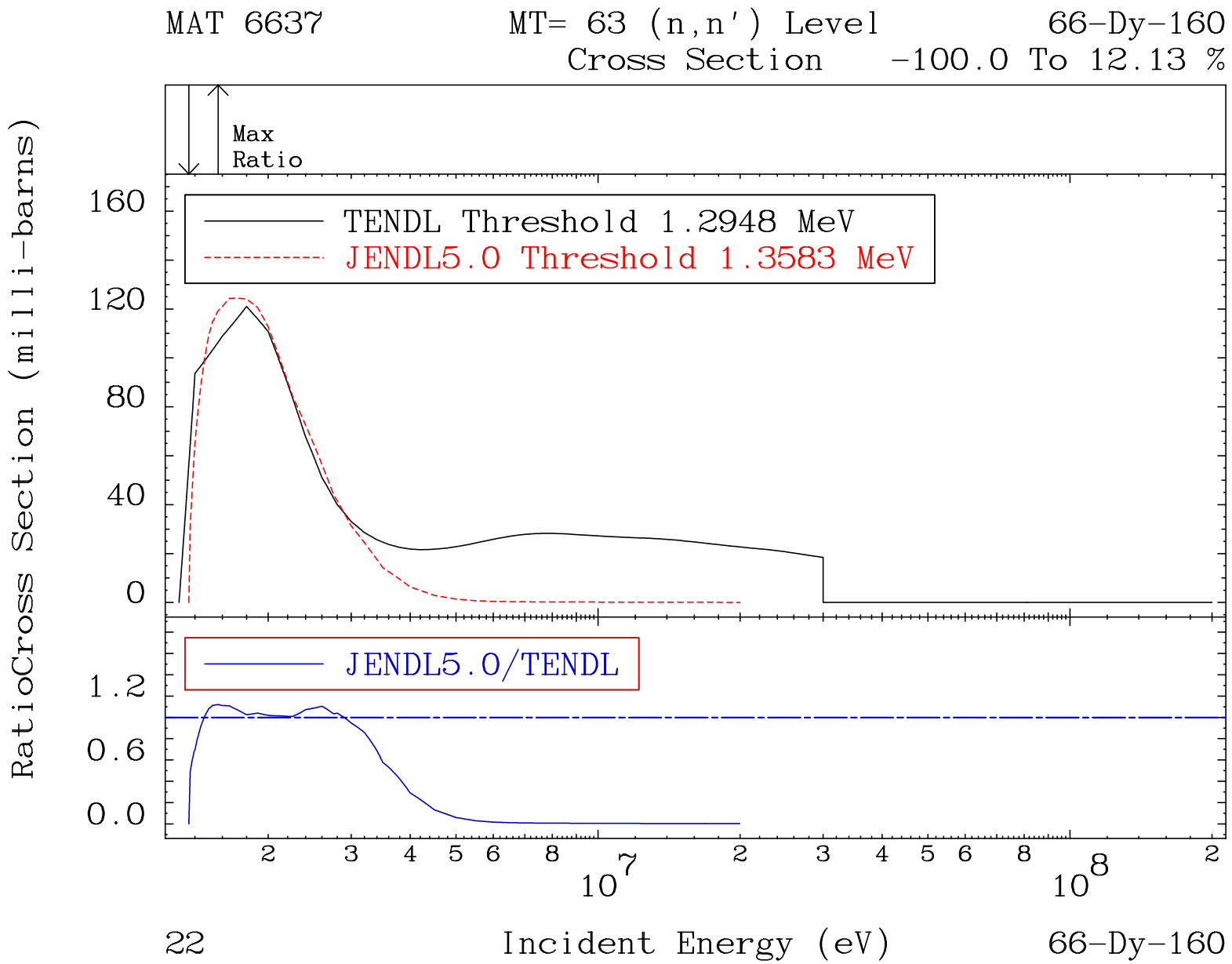

MAT 6637
MT= 58 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.0557 MeV
JENDL5.0 Threshold 1.2727 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
3.0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
17
66-Dy-160

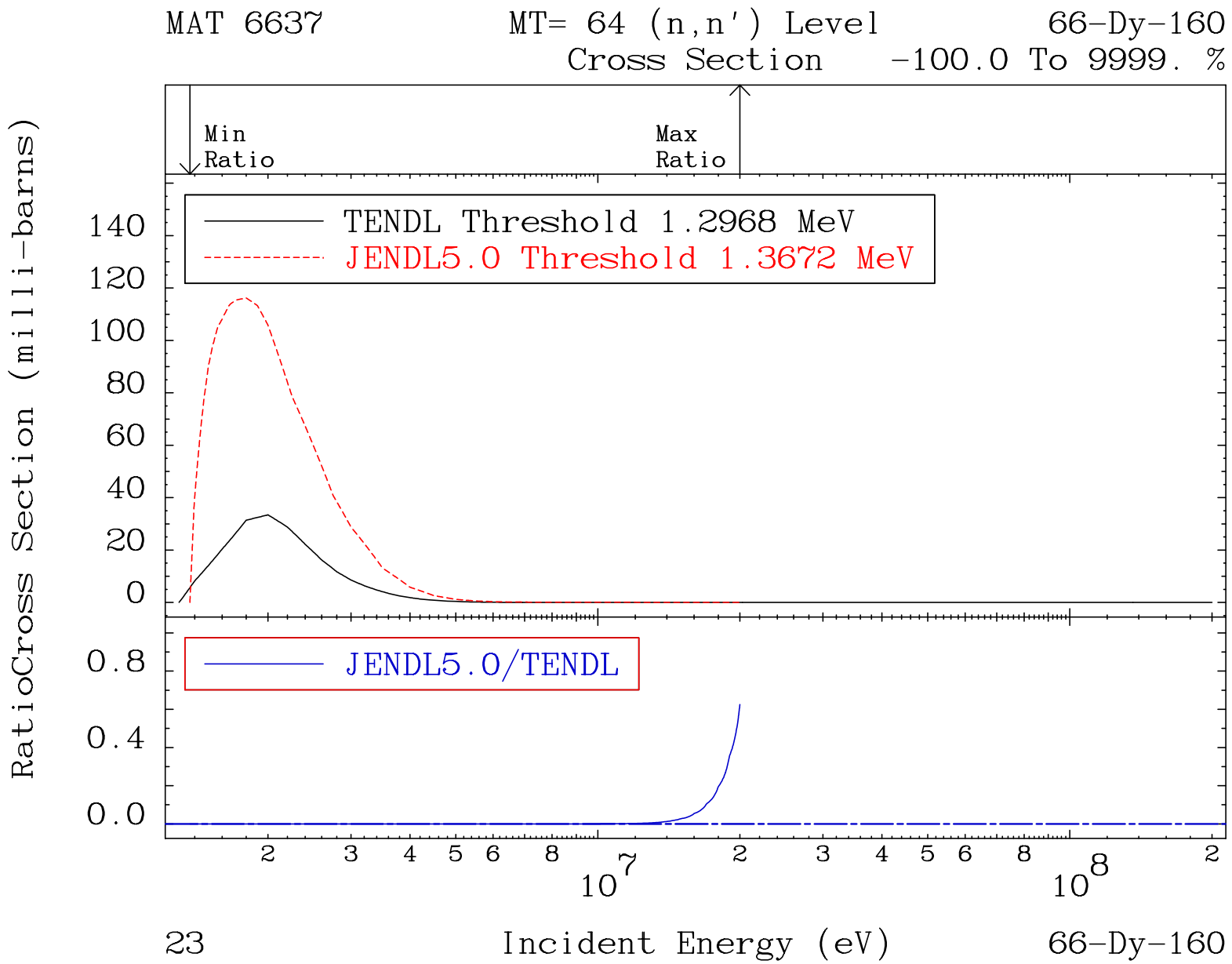

MAT 6637
MT= 59 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 28.62 %
Max
Ratio
TENDL Threshold 1.1631 MeV
JENDL5.0 Threshold 1.2880 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
18
Incident Energy (eV)
66-Dy-160

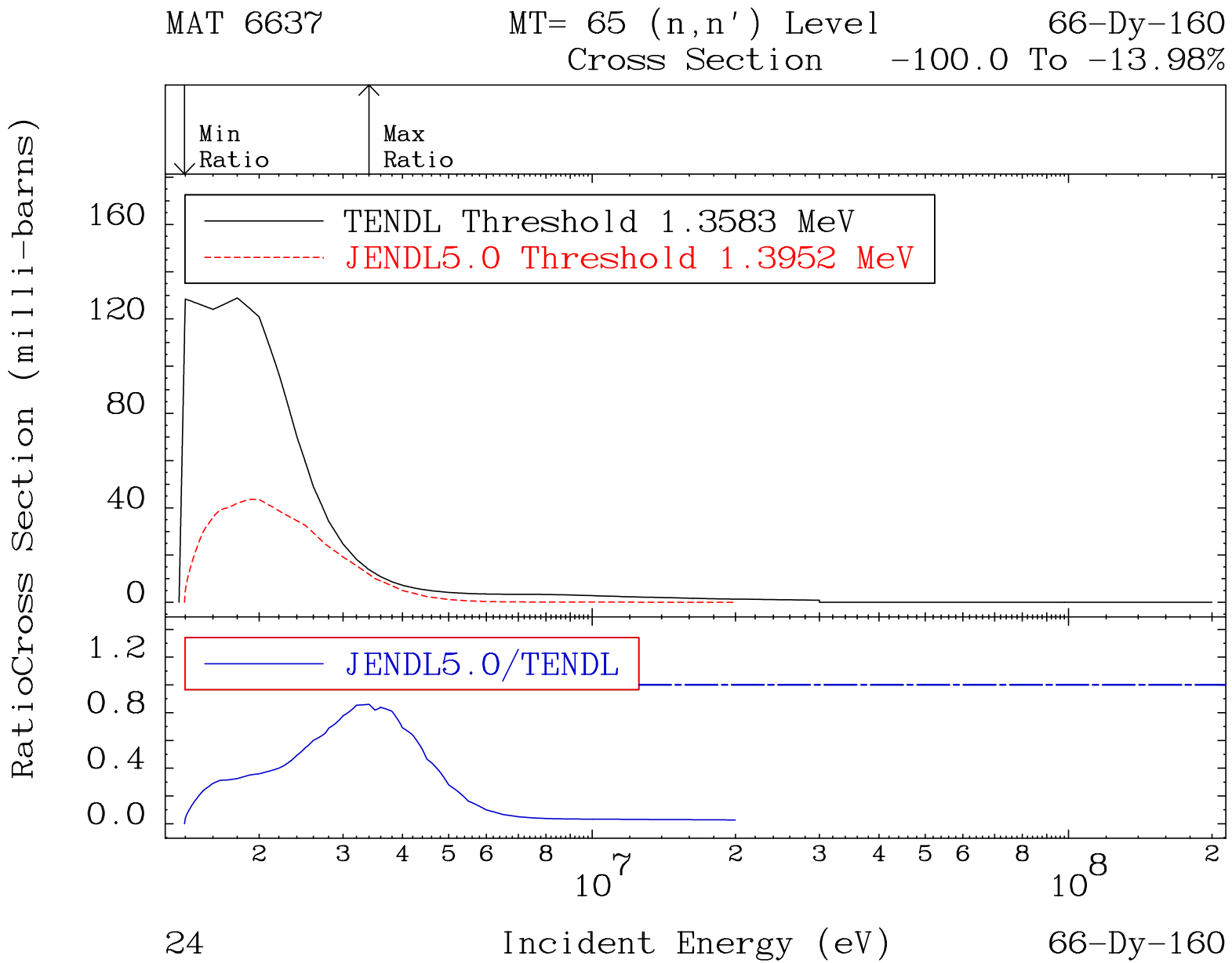

MAT 6637
MT= 60 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2727 MeV
JENDL5.0 Threshold 1.2937 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
66-Dy-160

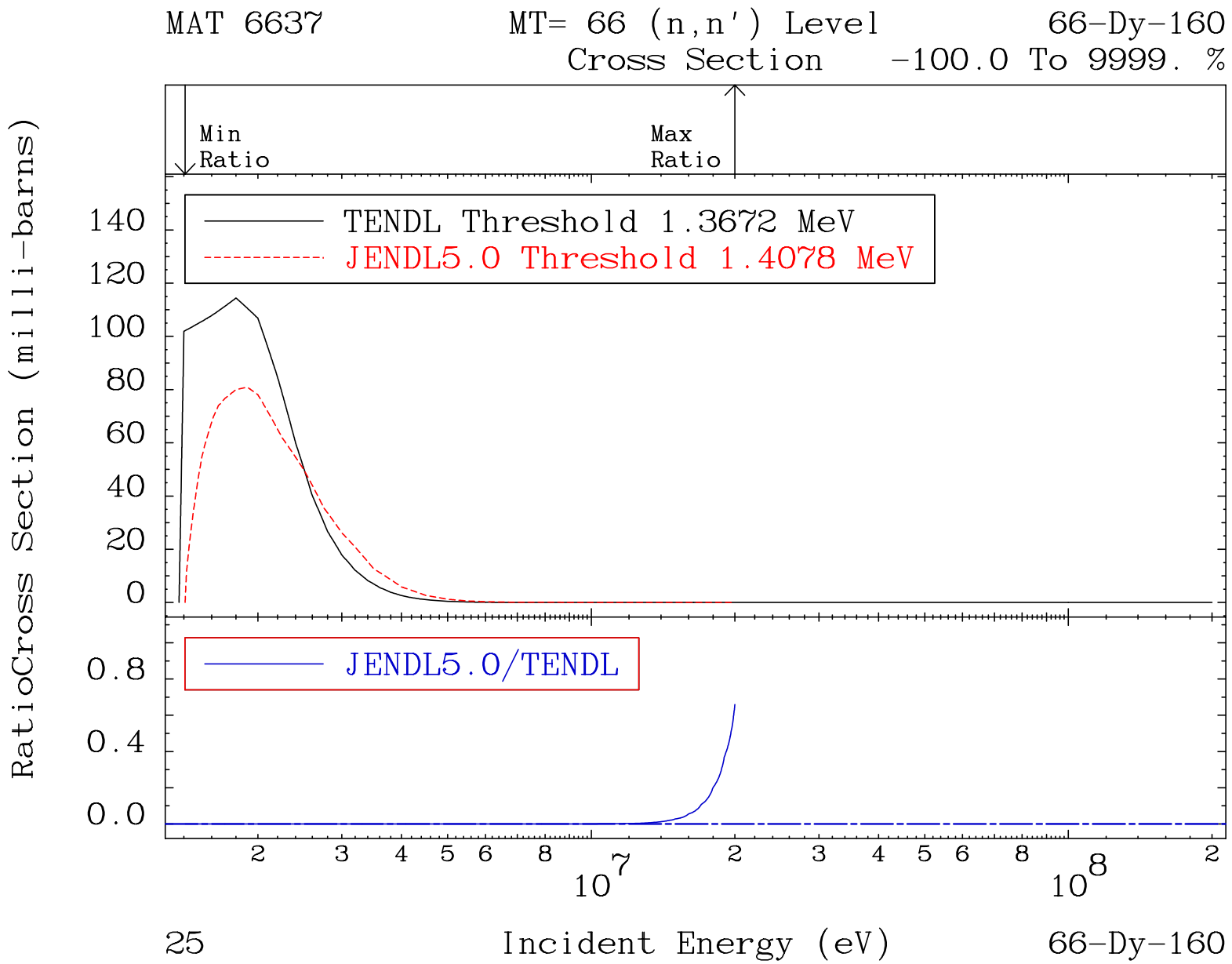

MAT 6637
MT= 61 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2880 MeV
JENDL5.0 Threshold 1.2948 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
400
200
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
66-Dy-160

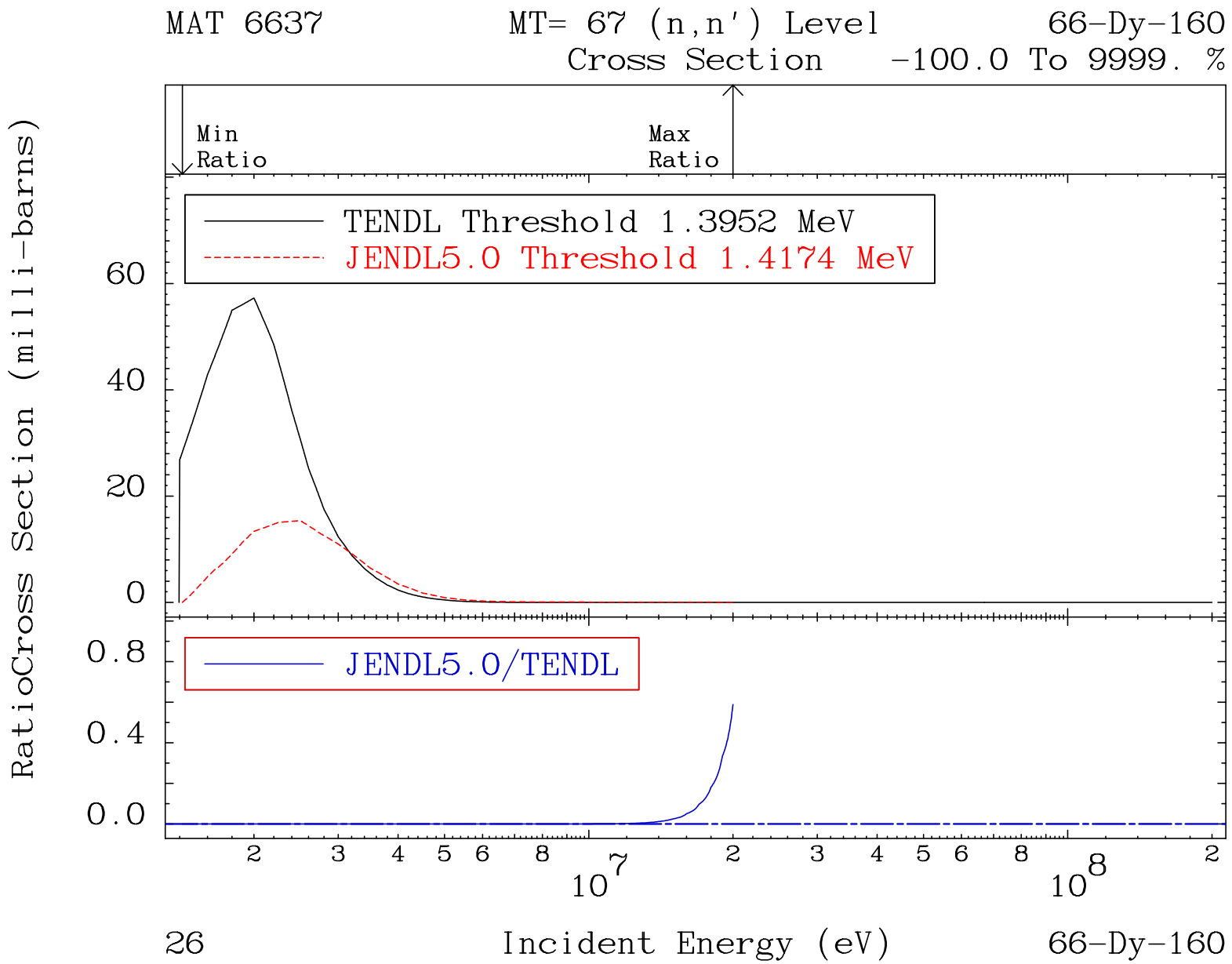

MAT 6637
MT= 62 (n,n') Level
66-Dy-160
Cross Section -100.0 To 64.20 %
Min Ratio
Max Ratio
TENDL Threshold 1.2937 MeV
JENDL5.0 Threshold 1.2968 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
21
Incident Energy (eV)
66-Dy-160

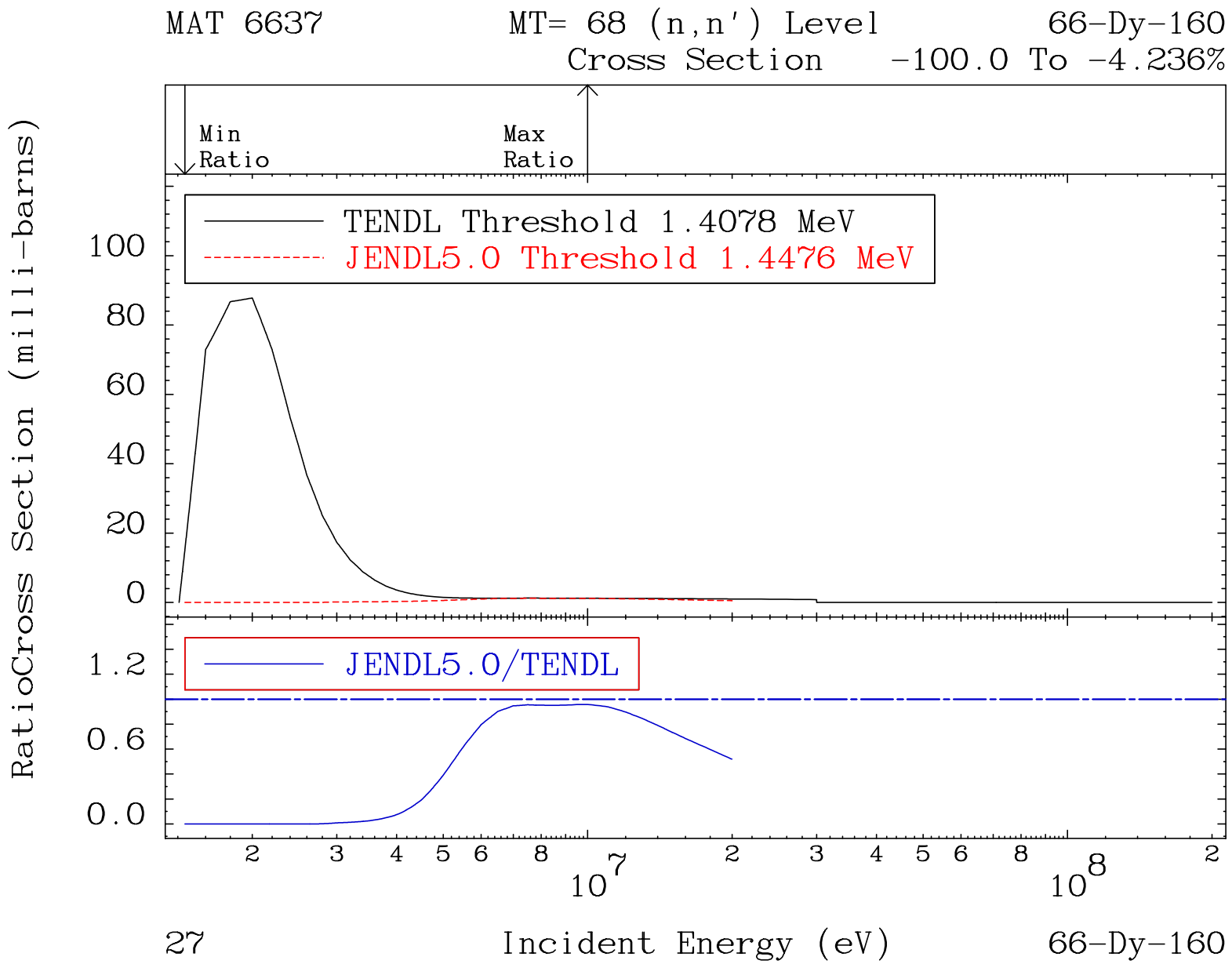

MAT 6637
MT= 63 (n,n') Level
66-Dy-160
Cross Section -100.0 To 12.13 %
Max
Ratio
TENDL Threshold 1.2948 MeV
JENDL5.0 Threshold 1.3583 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
22
Incident Energy (eV)
66-Dy-160

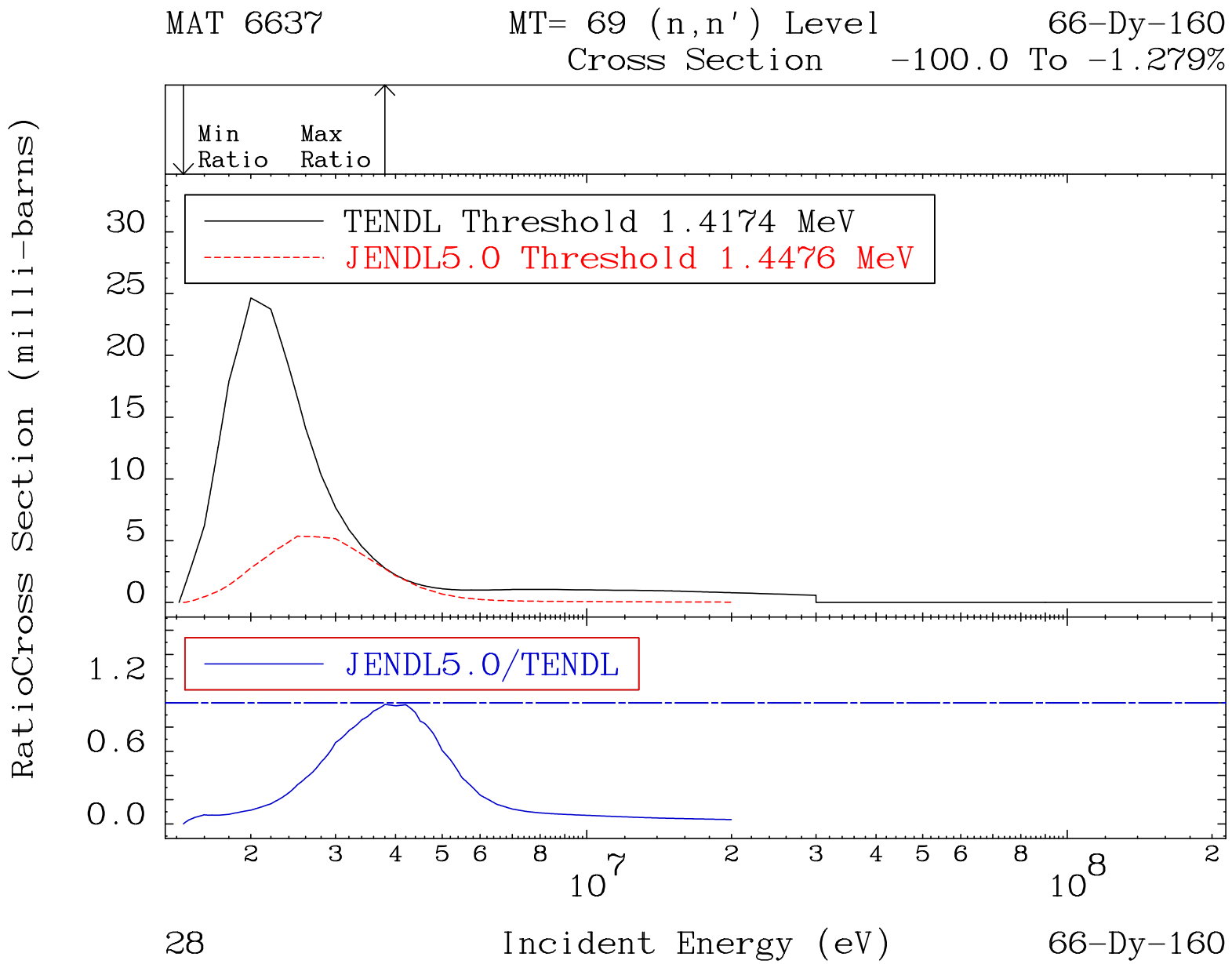

MAT 6637
MT= 64 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2968 MeV
JENDL5.0 Threshold 1.3672 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
0.8
0.4
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
66-Dy-160

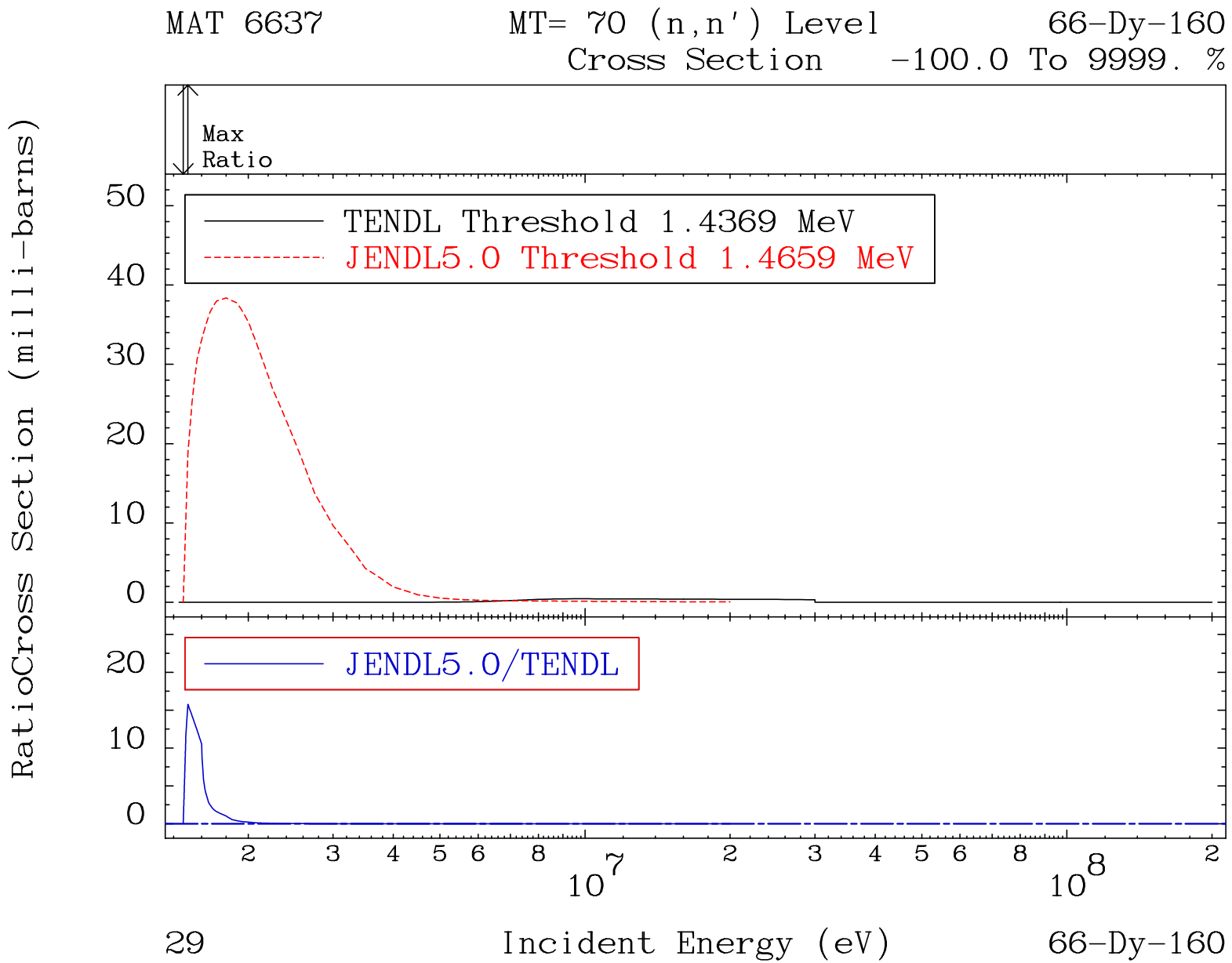

MAT 6637
MT= 65 (n,n') Level
66-Dy-160
Cross Section -100.0 To -13.98%
Min Ratio
Max Ratio
TENDL Threshold 1.3583 MeV
JENDL5.0 Threshold 1.3952 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.8
0.4
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
66-Dy-160

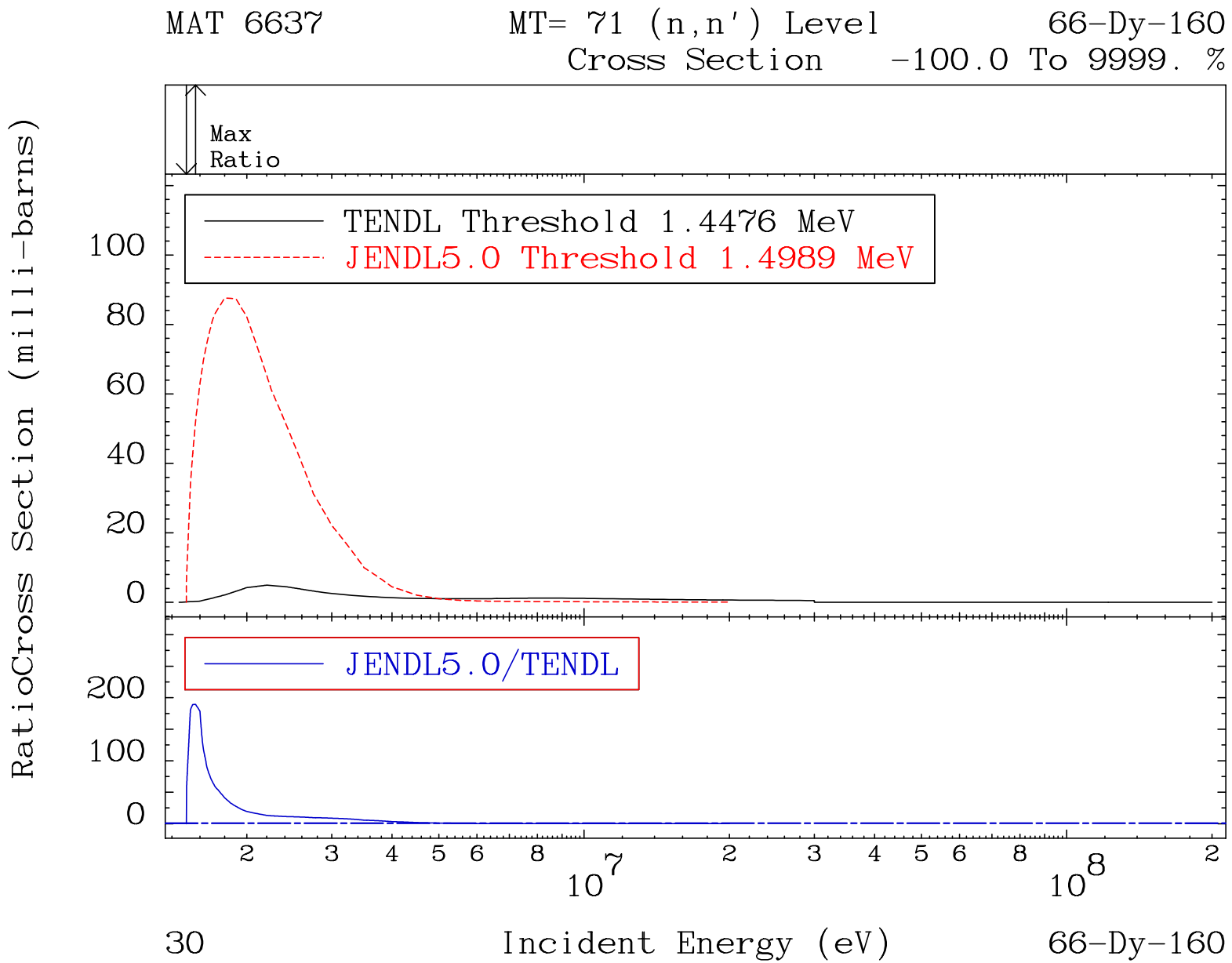

MAT 6637
MT= 66 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3672 MeV
JENDL5.0 Threshold 1.4078 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
0.8
0.4
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
25
Incident Energy (eV)
66-Dy-160

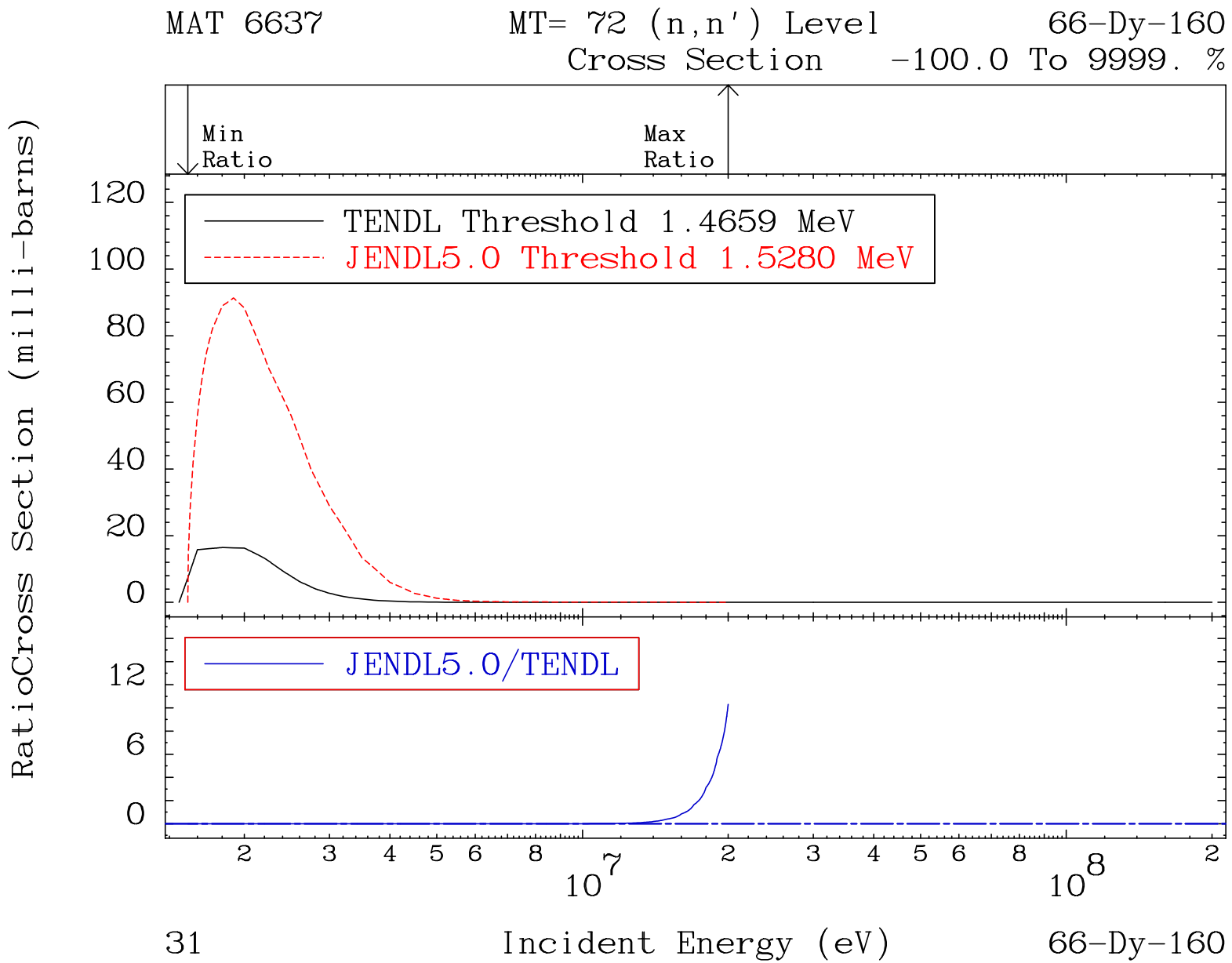

MAT 6637
MT= 67 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3952 MeV
JENDL5.0 Threshold 1.4174 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
0.8
0.4
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
26
Incident Energy (eV)
66-Dy-160

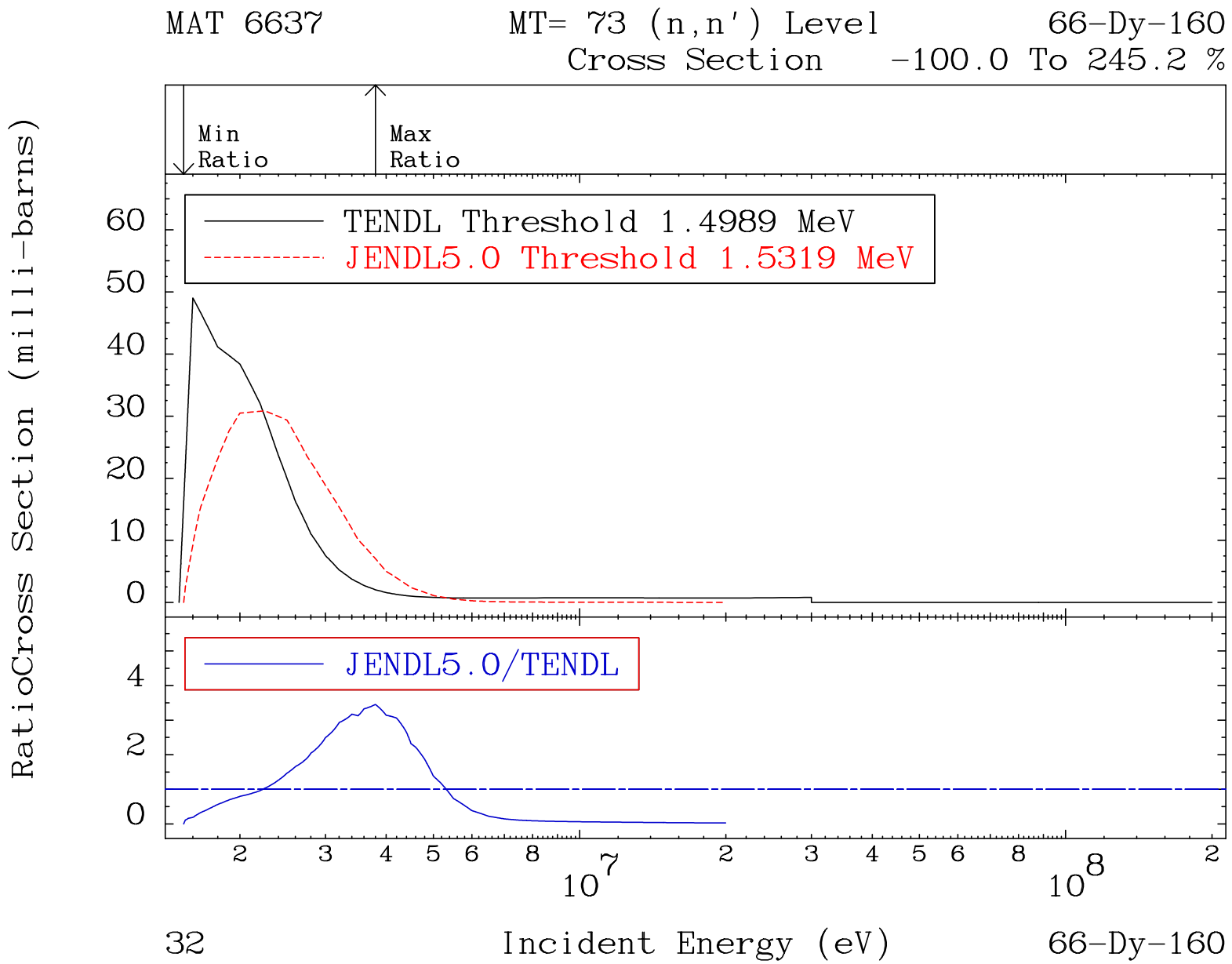

MAT 6637
MT= 68 (n,n') Level
66-Dy-160
Cross Section
-100.0 To -4.236%
Min Ratio
Max Ratio
TENDL Threshold 1.4078 MeV
JENDL5.0 Threshold 1.4476 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
27
Incident Energy (eV)
66-Dy-160

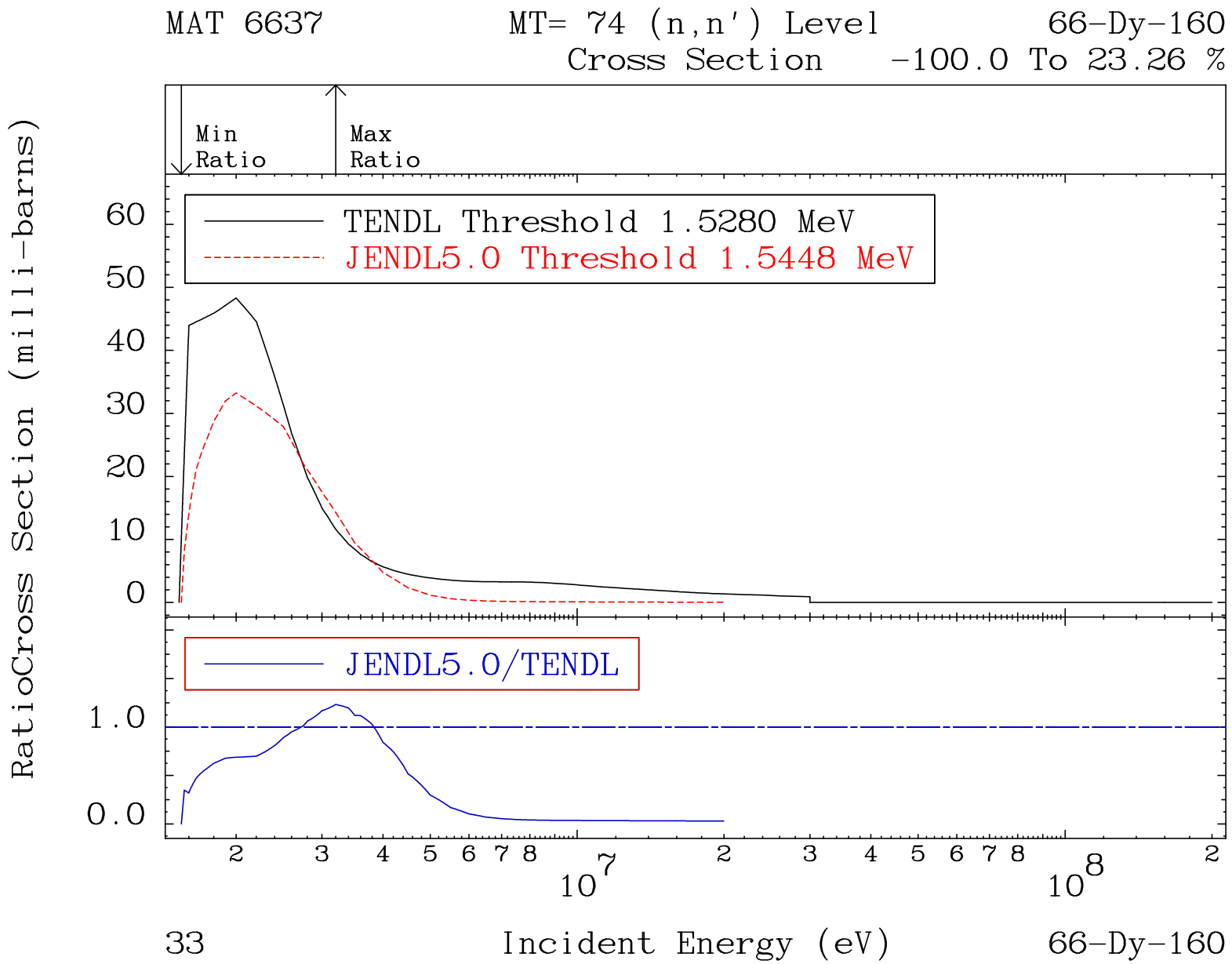

MAT 6637
MT= 69 (n,n') Level
66-Dy-160
Cross Section -100.0 To -1.279%
Min Ratio
Max Ratio
TENDL Threshold 1.4174 MeV
JENDL5.0 Threshold 1.4476 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
28
Incident Energy (eV)
66-Dy-160

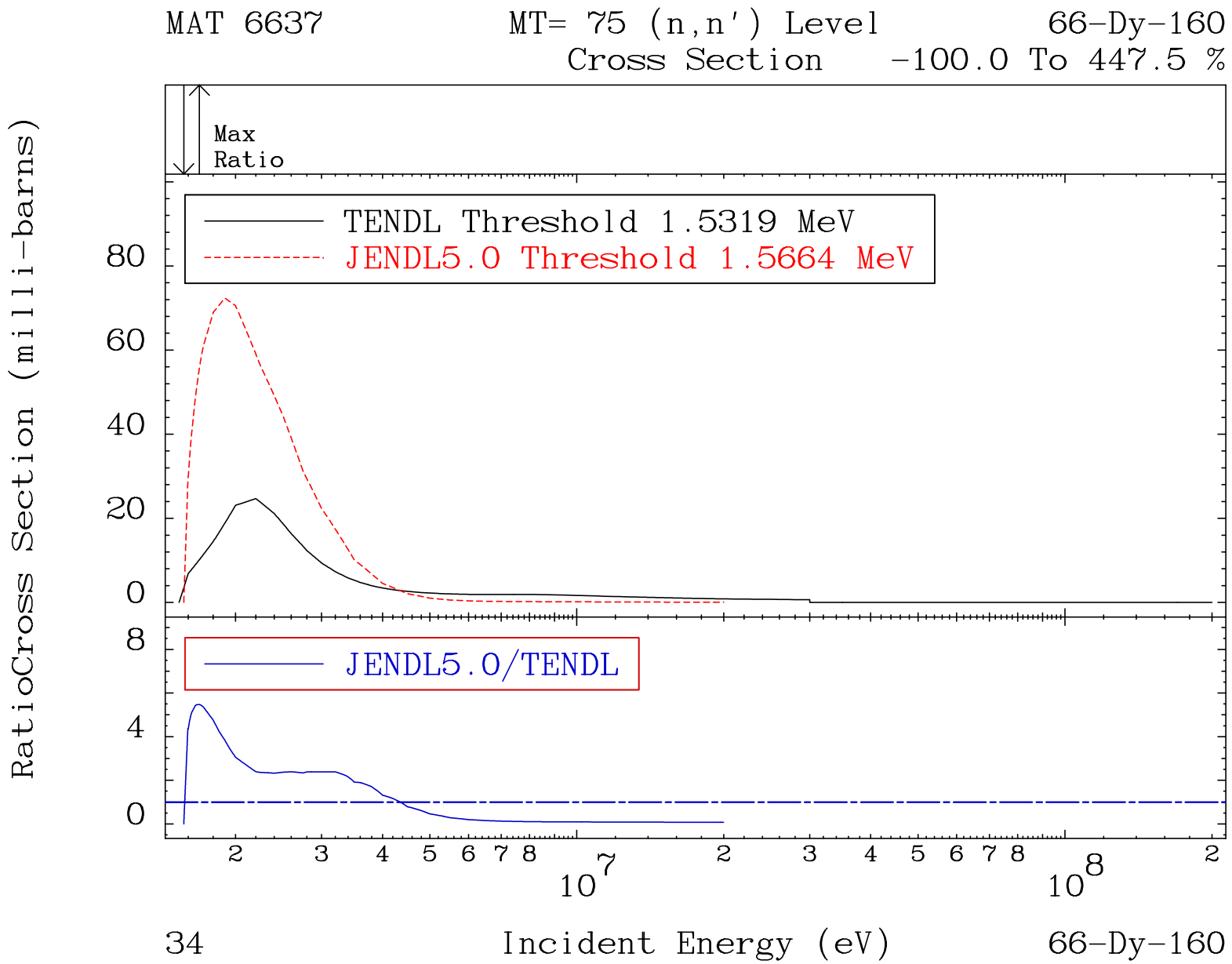

MAT 6637
MT= 70 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 1.4369 MeV
JENDL5.0 Threshold 1.4659 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
20
10
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
29
Incident Energy (eV)
66-Dy-160

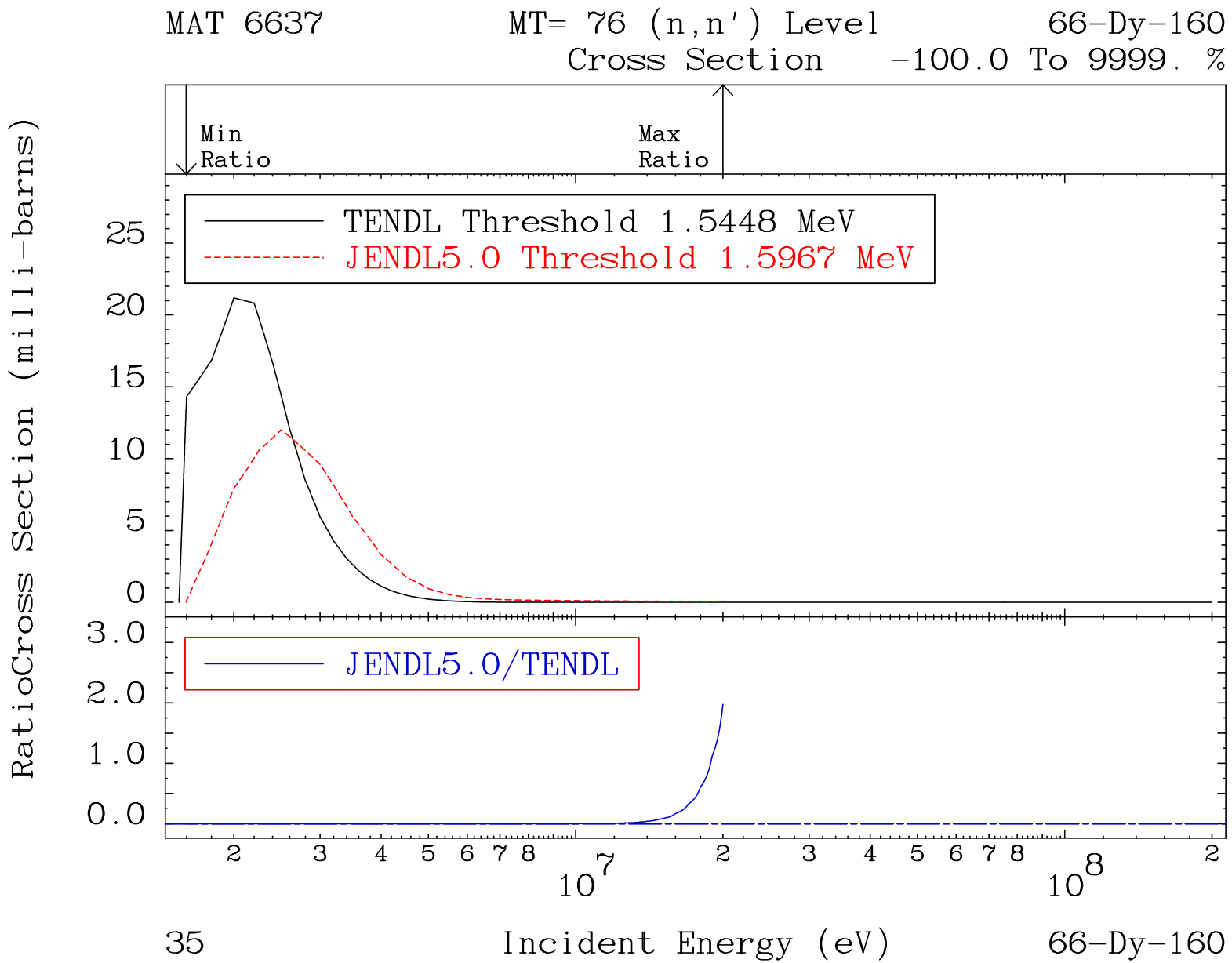

MAT 6637
MT= 71 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 1.4476 MeV
JENDL5.0 Threshold 1.4989 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
200
100
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
30
Incident Energy (eV)
66-Dy-160

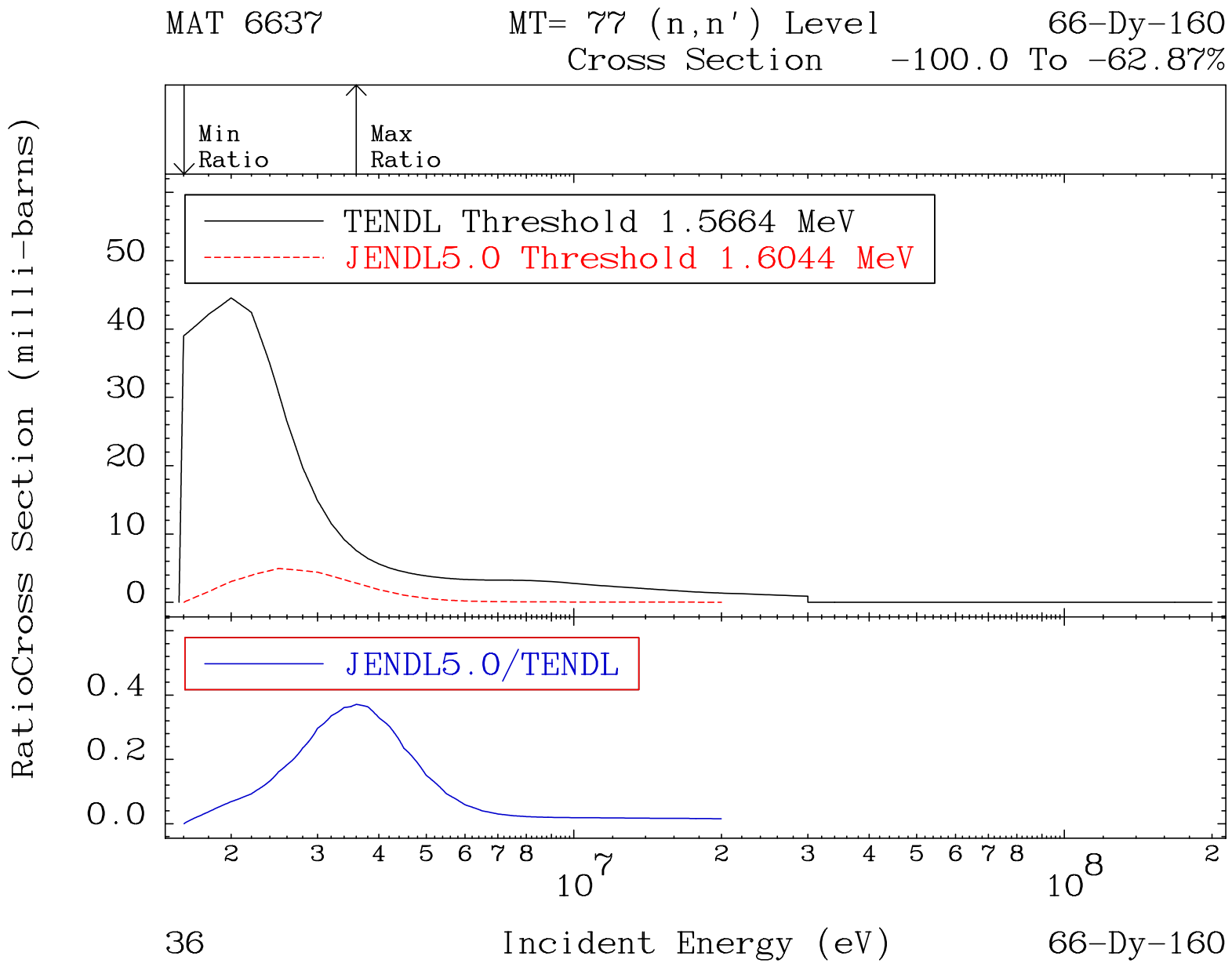

MAT 6637
MT= 72 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4659 MeV
JENDL5.0 Threshold 1.5280 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
12
6
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
31
Incident Energy (eV)
66-Dy-160

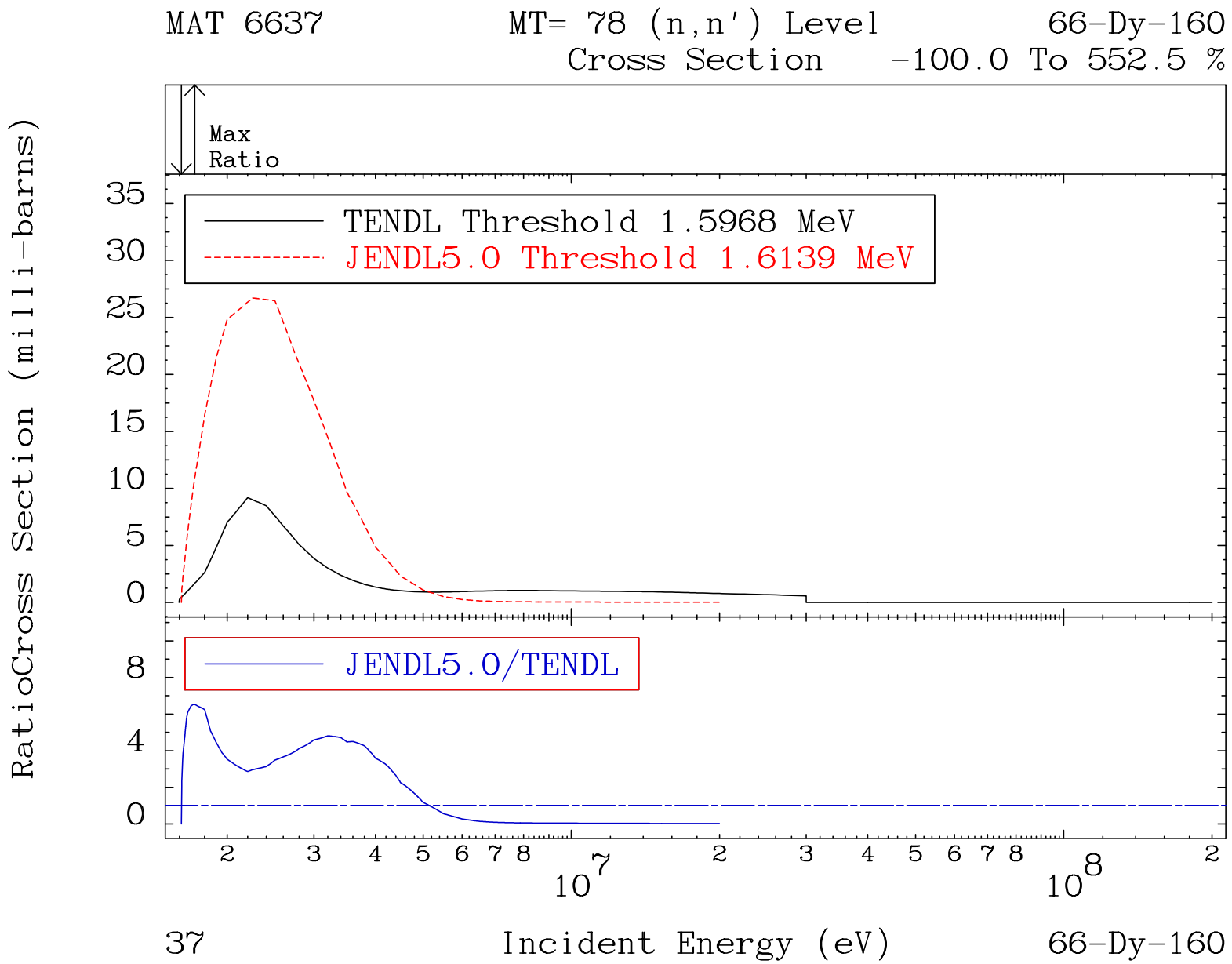

MAT 6637
MT= 73 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 245.2 %
Min Ratio
Max Ratio
TENDL Threshold 1.4989 MeV
JENDL5.0 Threshold 1.5319 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
66-Dy-160

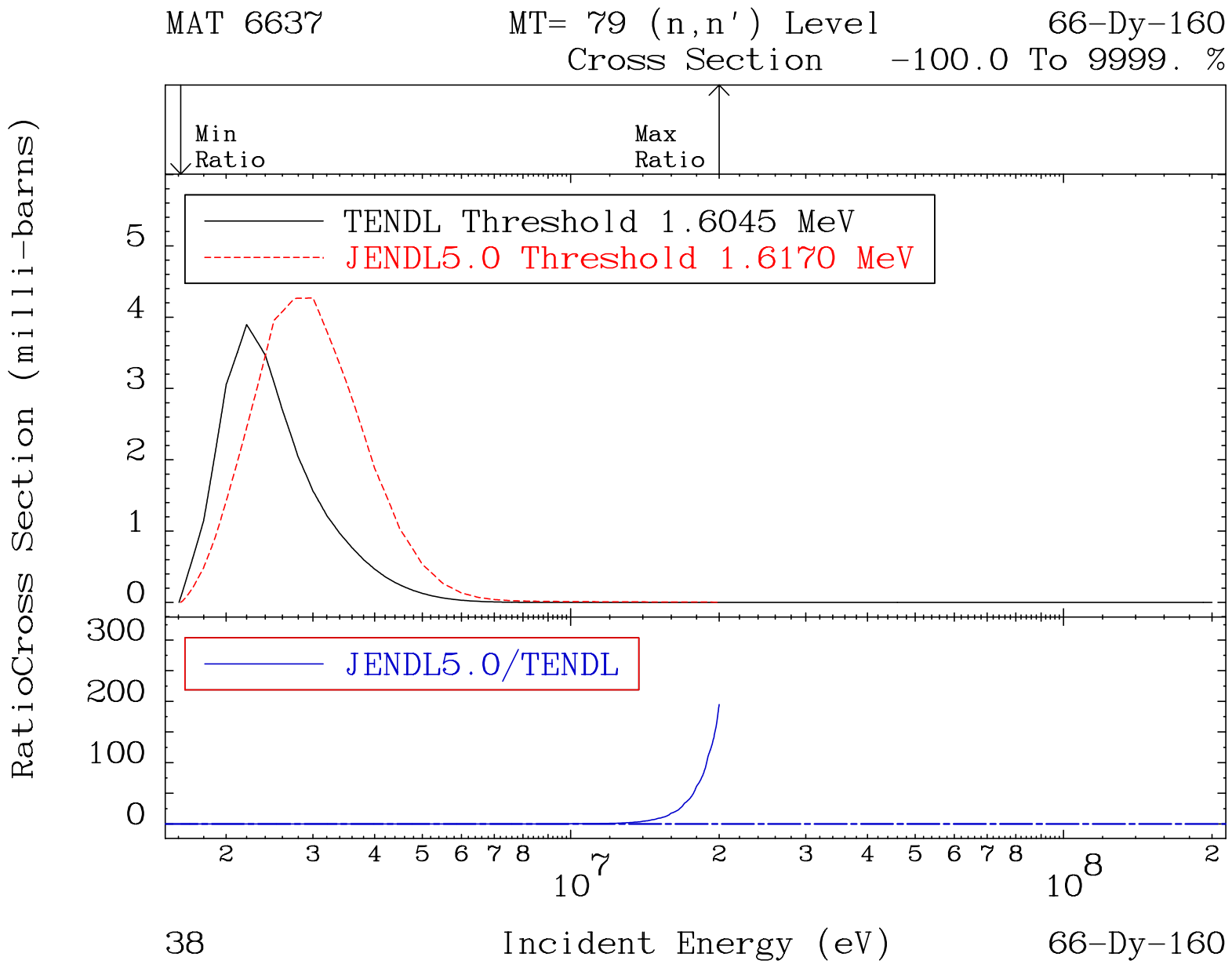

MAT 6637
MT= 74 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 23.26 %
Min Ratio
Max Ratio
TENDL Threshold 1.5280 MeV
JENDL5.0 Threshold 1.5448 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
66-Dy-160

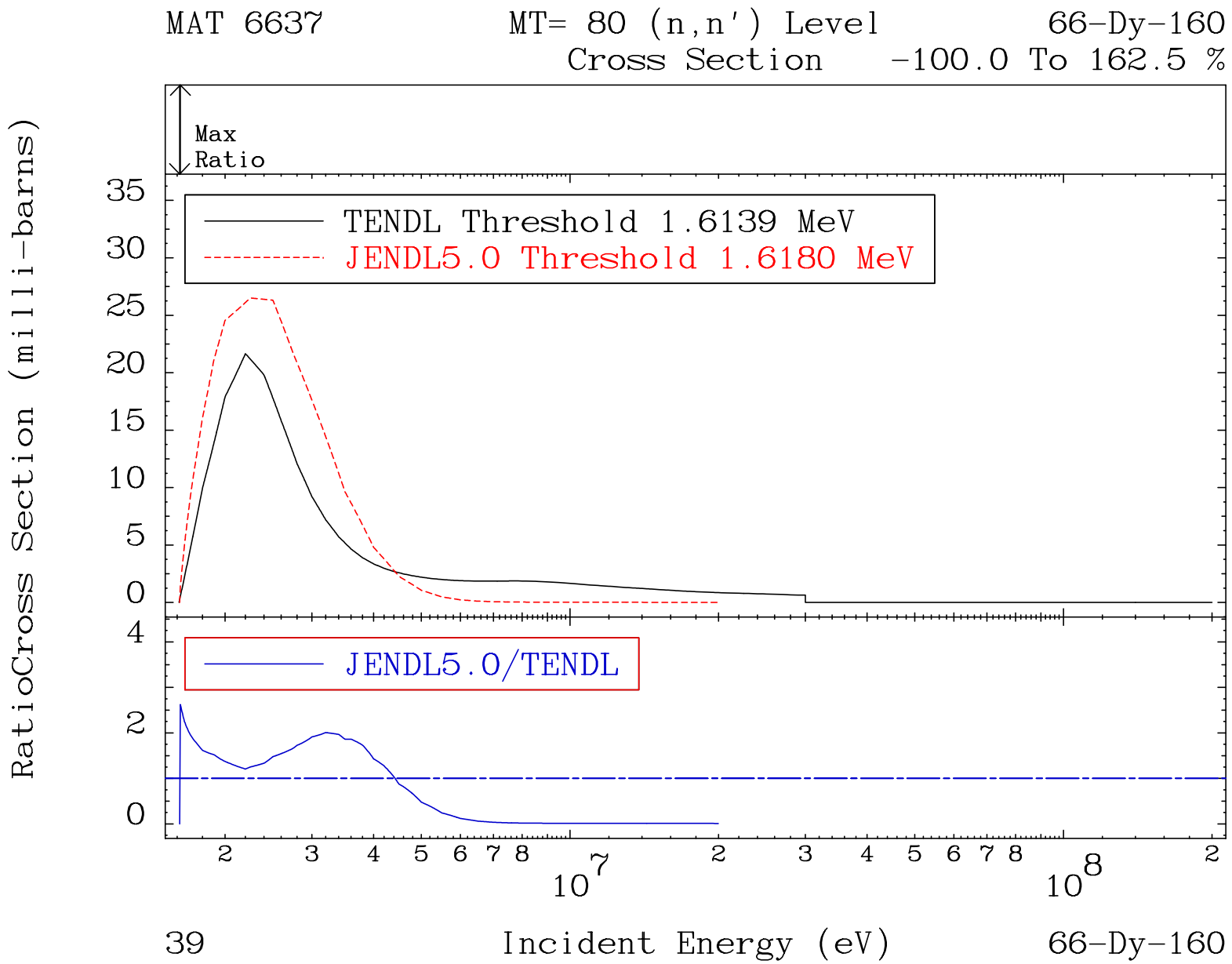

MAT 6637
MT= 75 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 447.5 %
Max
Ratio
TENDL Threshold 1.5319 MeV
JENDL5.0 Threshold 1.5664 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
66-Dy-160

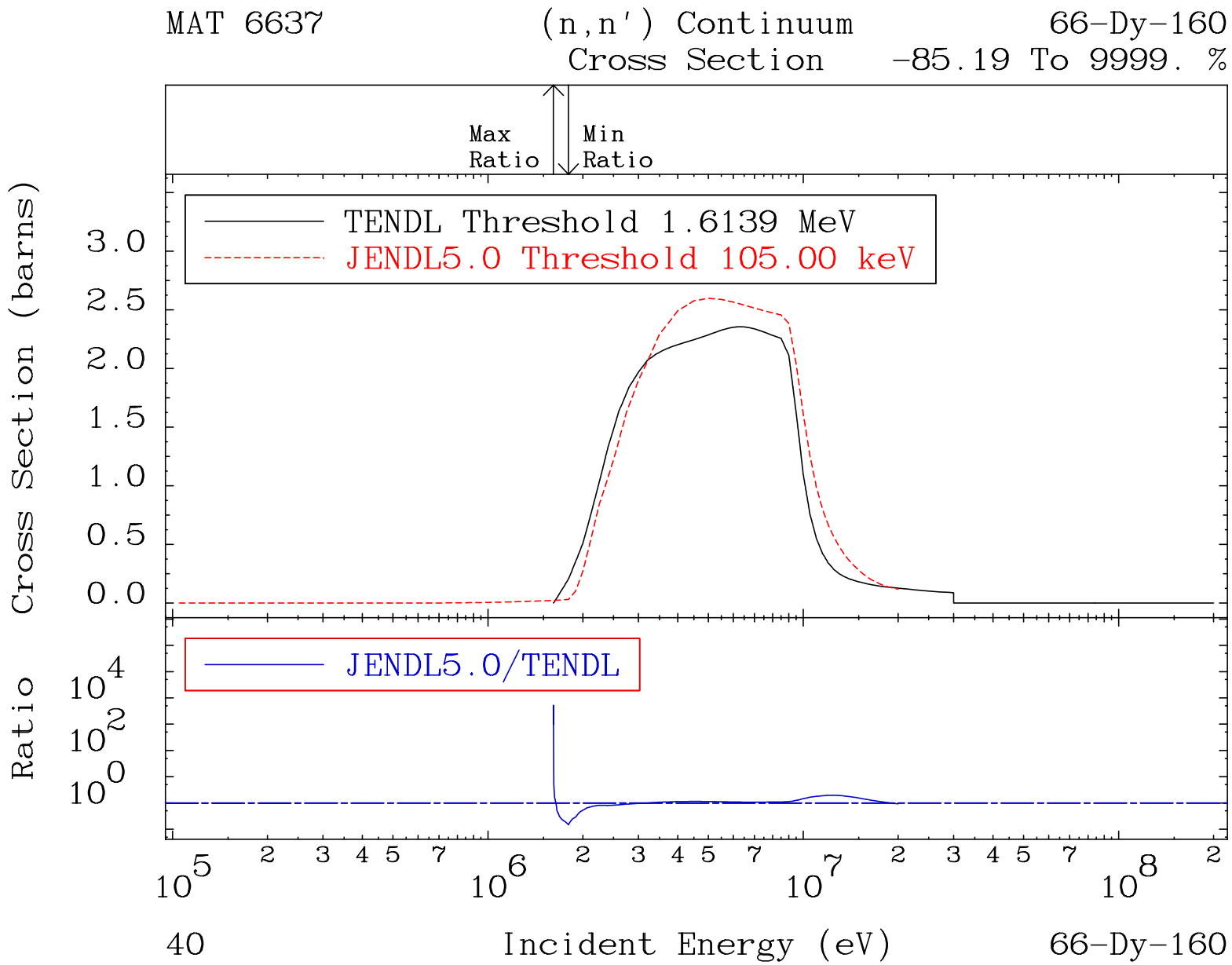

MAT 6637
MT= 76 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.5448 MeV
JENDL5.0 Threshold 1.5967 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
3.0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
35
Incident Energy (eV)
66-Dy-160

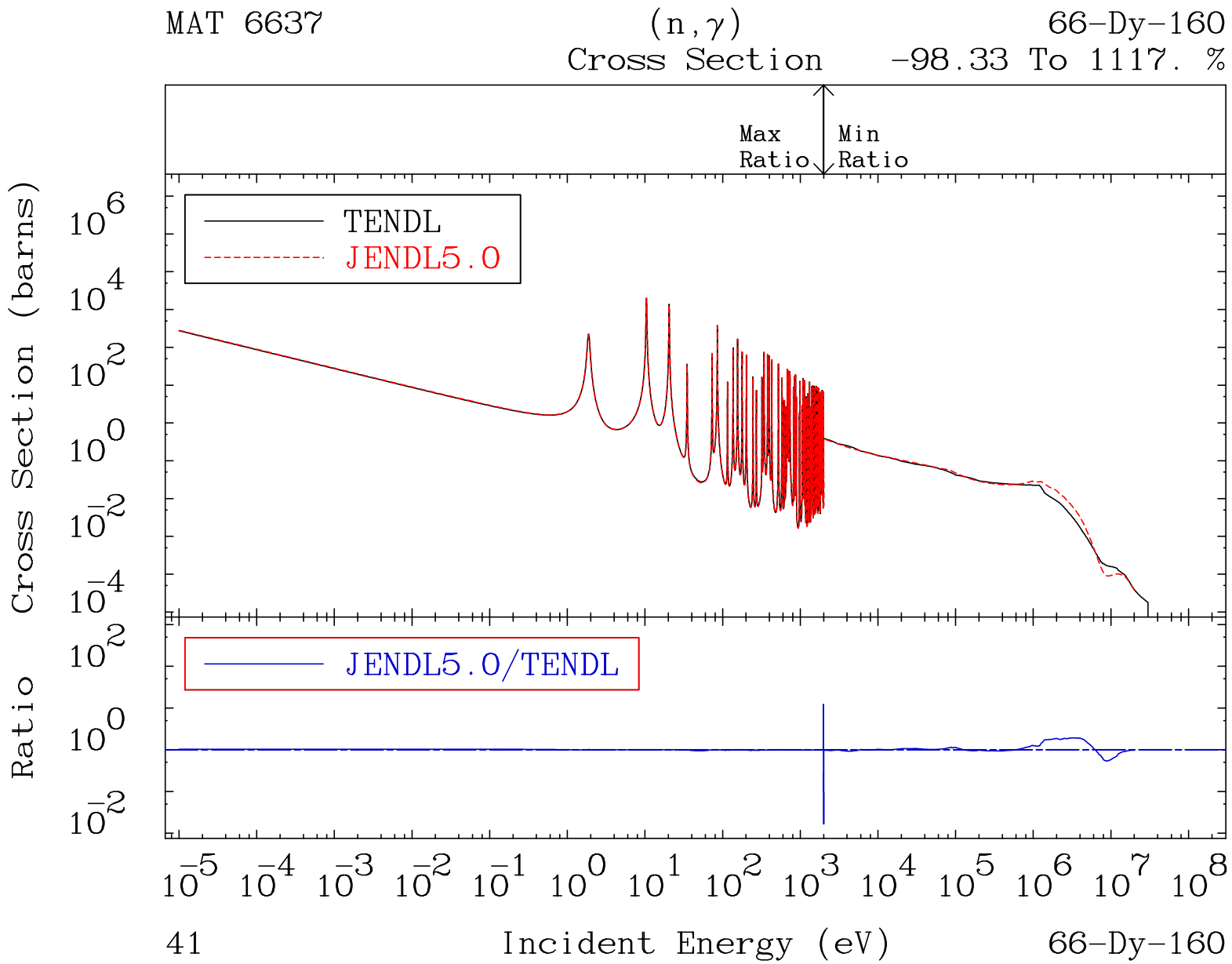

MAT 6637
MT= 77 (n,n') Level
66-Dy-160
Cross Section
-100.0 To -62.87%
Min Ratio
Max Ratio
TENDL Threshold 1.5664 MeV
JENDL5.0 Threshold 1.6044 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.4
0.2
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
36
Incident Energy (eV)
66-Dy-160

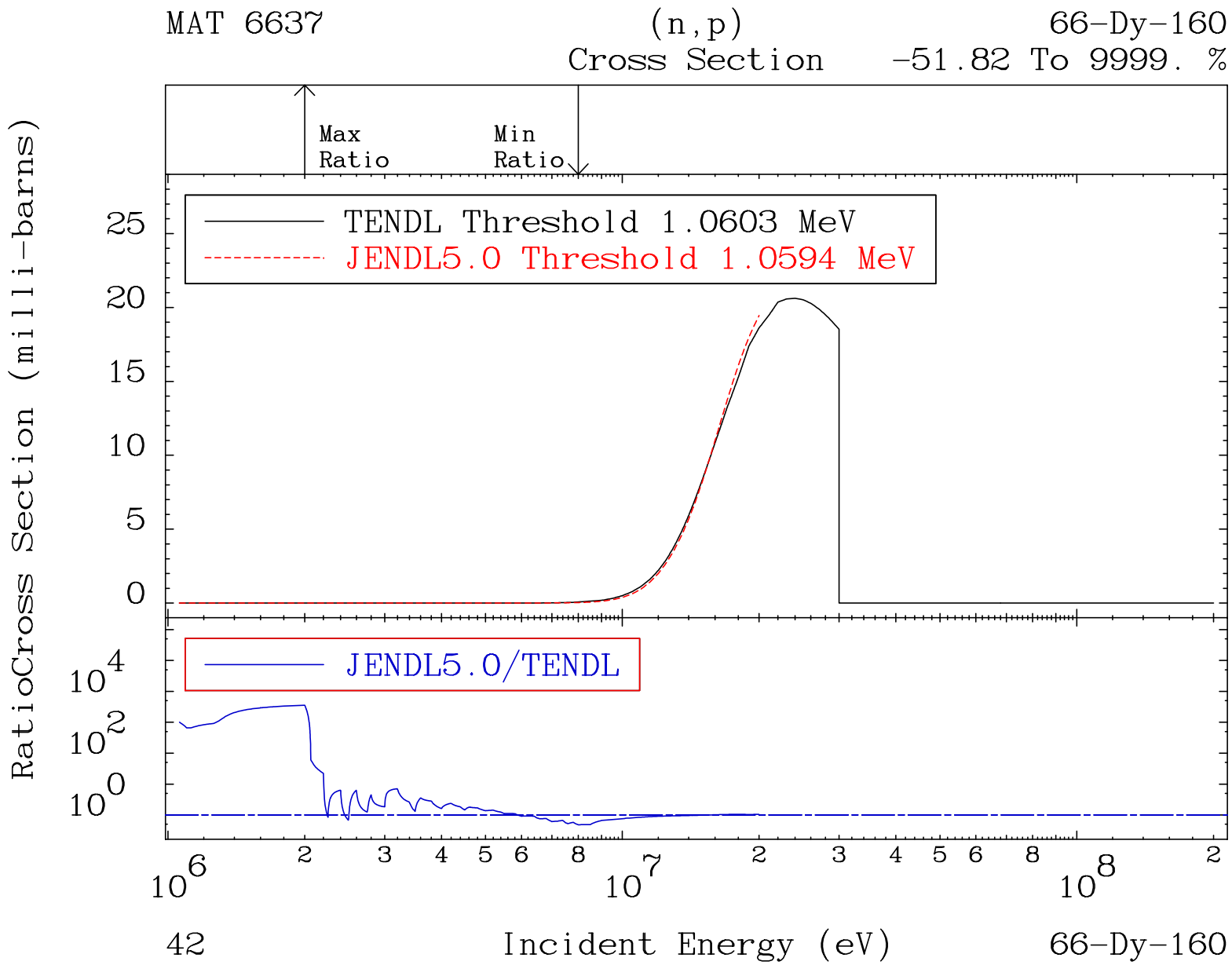

MAT 6637
MT= 78 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 552.5 %
Max
Ratio
TENDL Threshold 1.5968 MeV
JENDL5.0 Threshold 1.6139 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
8
4
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
66-Dy-160

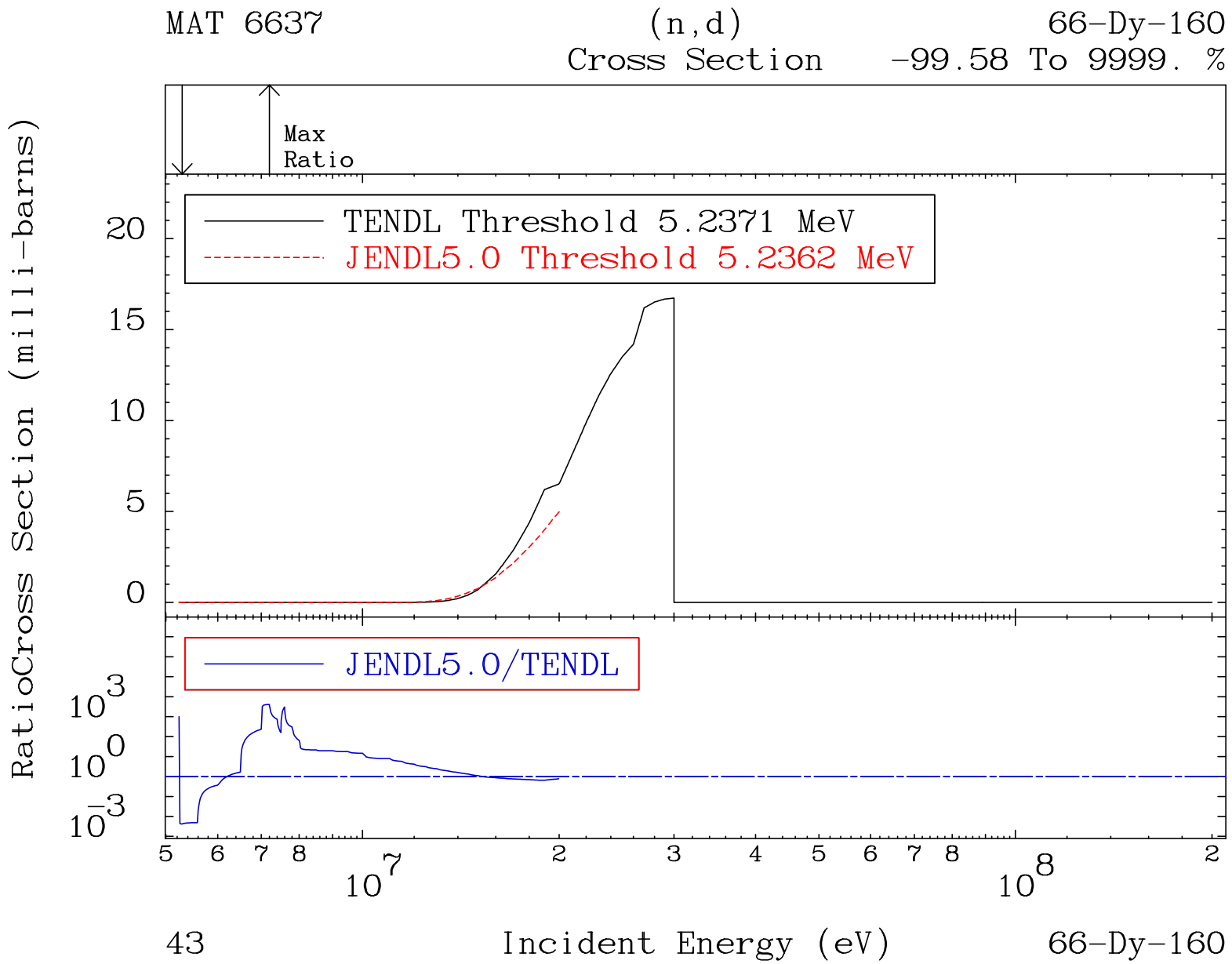

MAT 6637
MT= 79 (n,n') Level
66-Dy-160
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.6045 MeV
JENDL5.0 Threshold 1.6170 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38
66-Dy-160

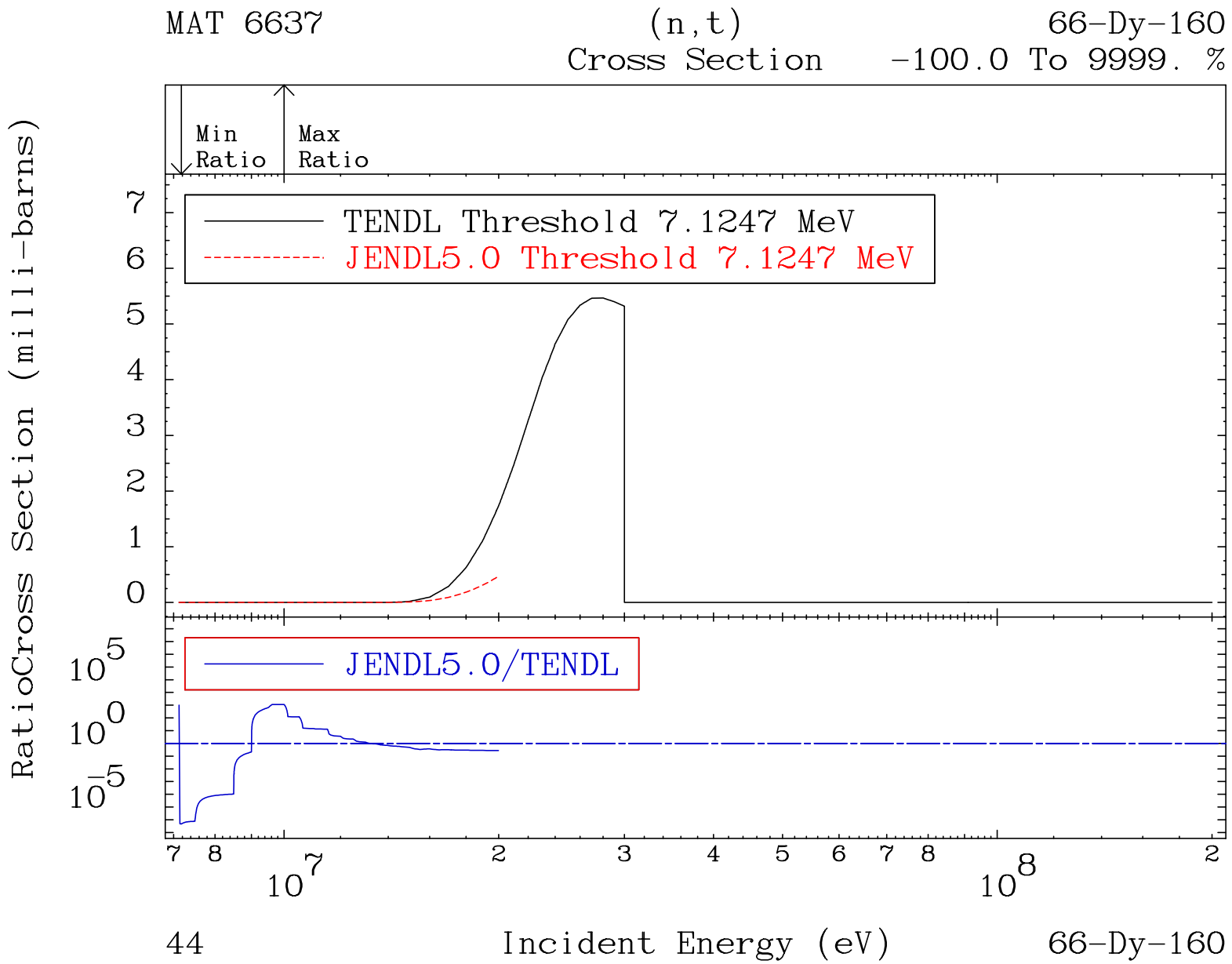

MAT 6637
MT= 80 (n,n') Level
66-Dy-160
Cross Section
-100.0 To 162.5 %
Max
Ratio
TENDL Threshold 1.6139 MeV
JENDL5.0 Threshold 1.6180 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
39
Incident Energy (eV)
66-Dy-160

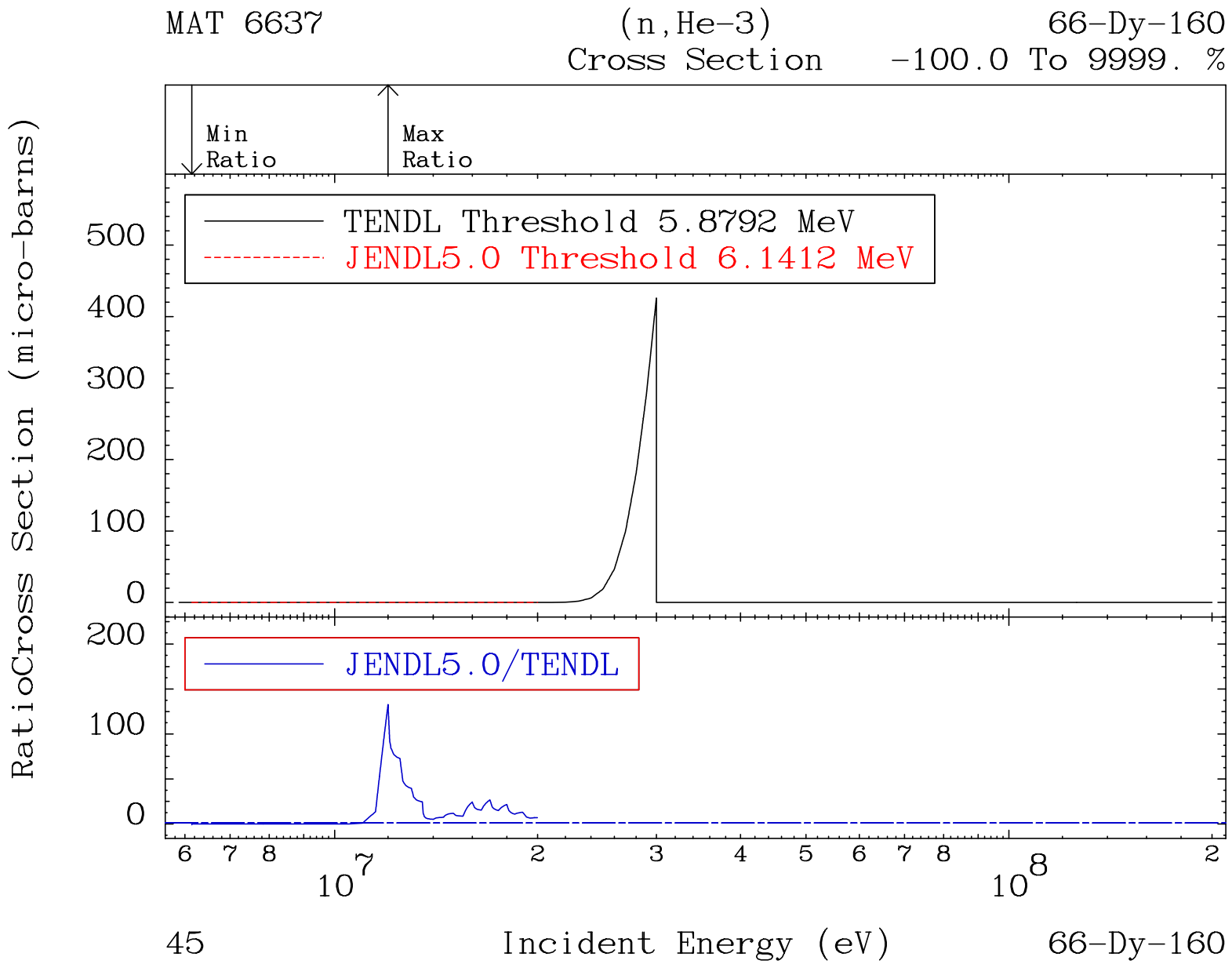

MAT 6637
(n,n') Continuum
Cross Section
66-Dy-160
-85.19 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6139 MeV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
10^4
10^2
10^0
10^5
10^6
10^7
10^8
Incident Energy (eV)
40
66-Dy-160

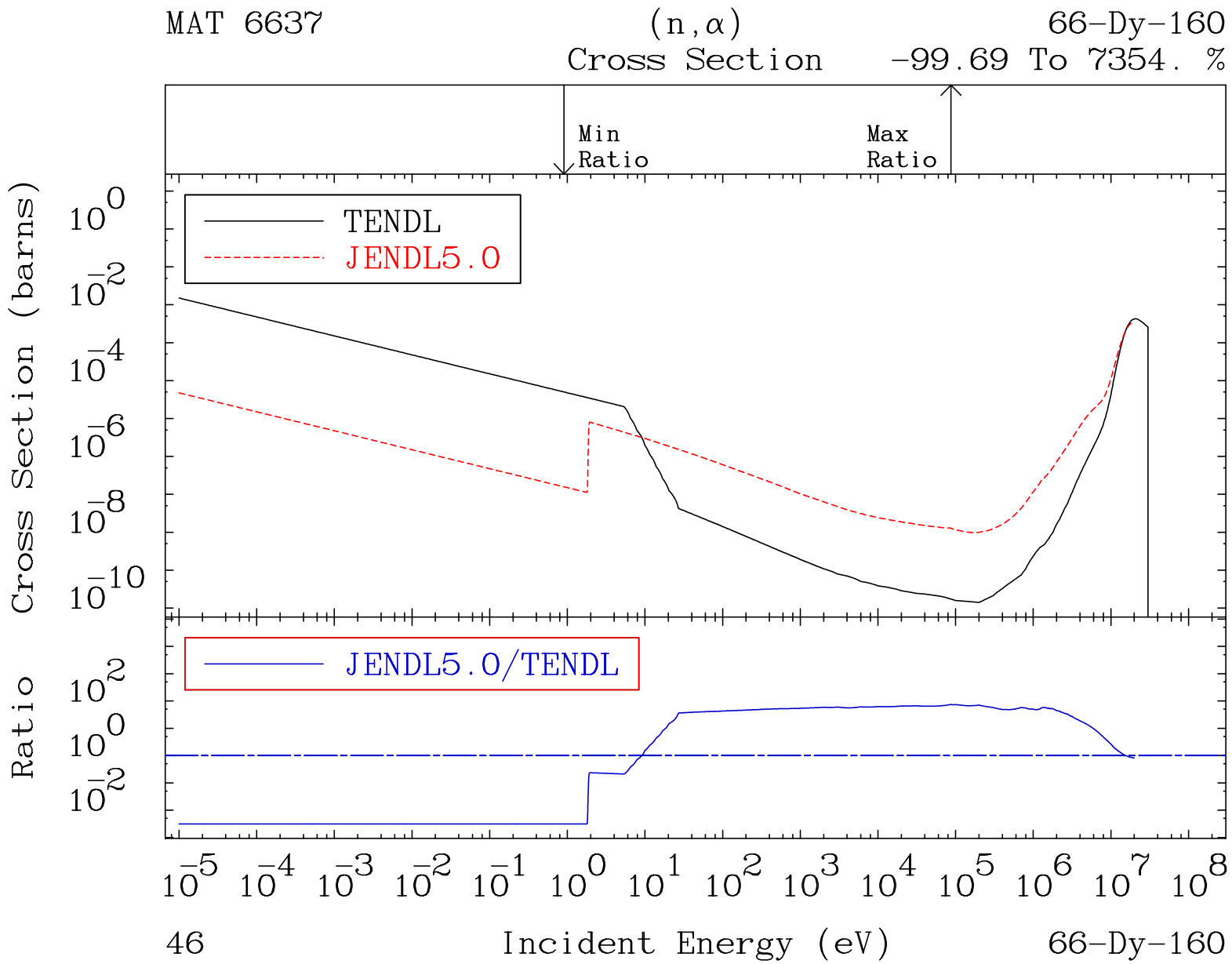

MAT 6637
(n,γ)
Cross Section
66-Dy-160
-98.33 To 1117. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
66-Dy-160

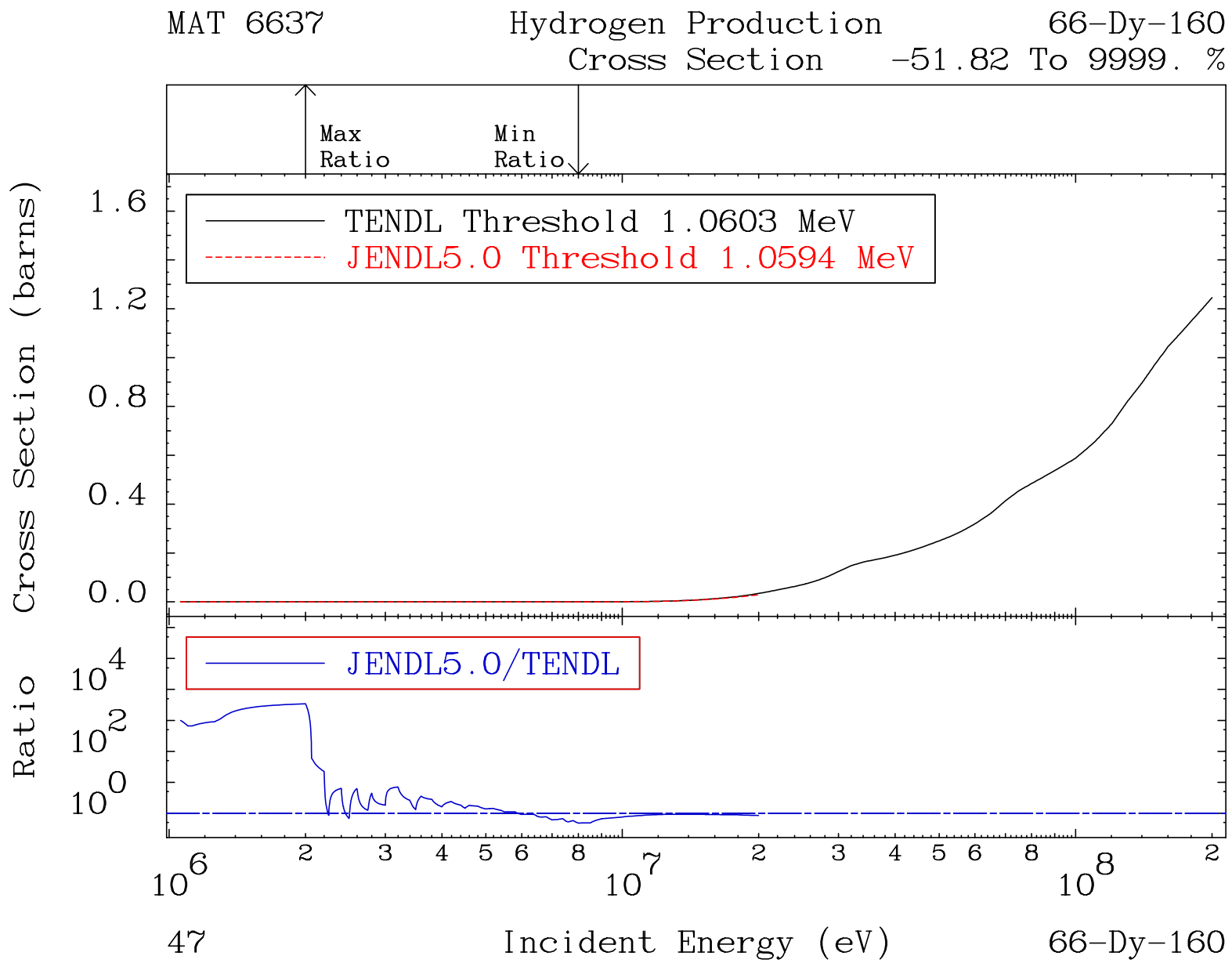

MAT 6637
(n,p)
66-Dy-160
Cross Section
-51.82 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0603 MeV
JENDL5.0 Threshold 1.0594 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
42
66-Dy-160

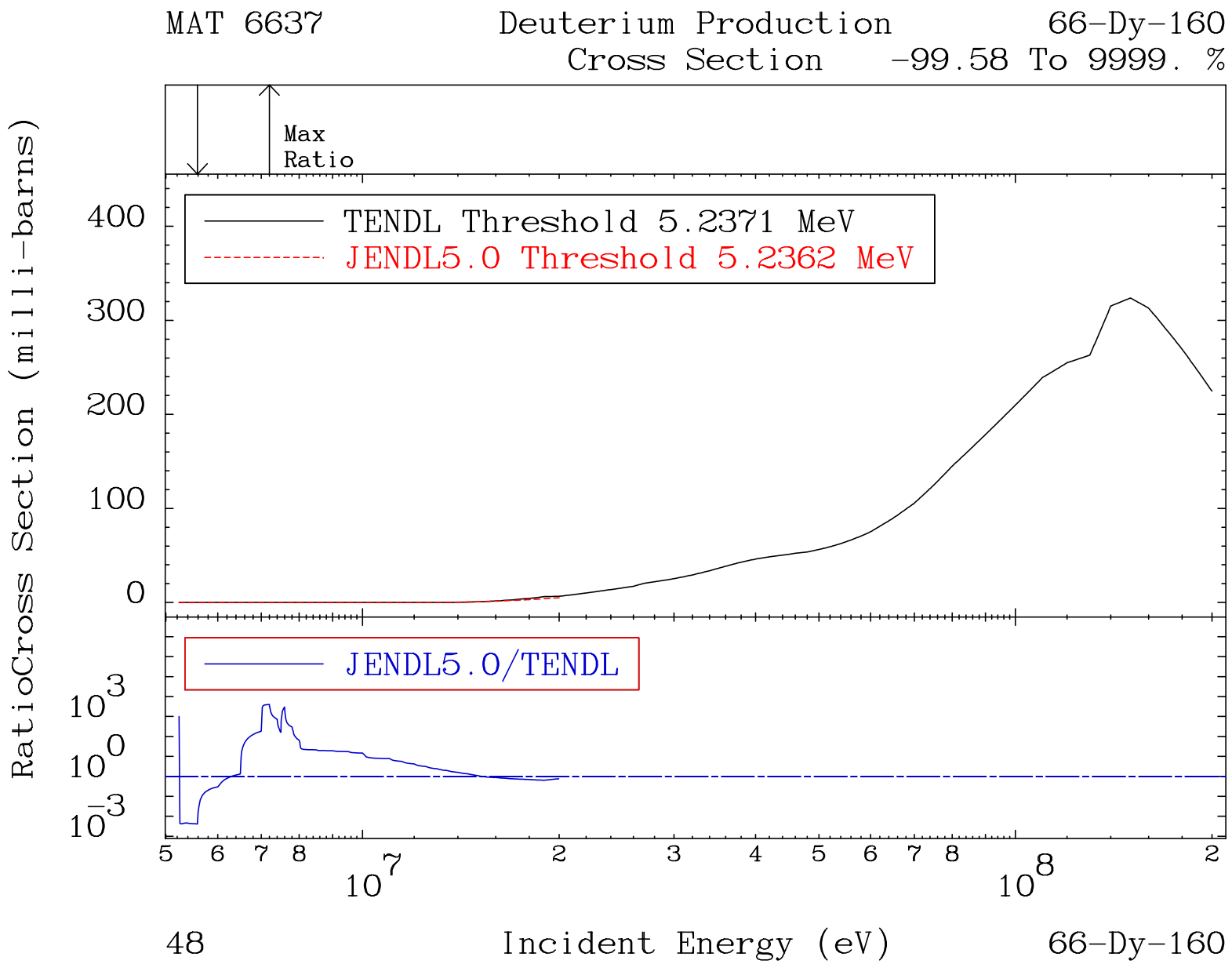

MAT 6637
(n,d)
66-Dy-160
Cross Section
-99.58 To 9999. %
Max
Ratio
TENDL Threshold 5.2371 MeV
JENDL5.0 Threshold 5.2362 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^3
10^0
10^-3
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
43
Incident Energy (eV)
66-Dy-160

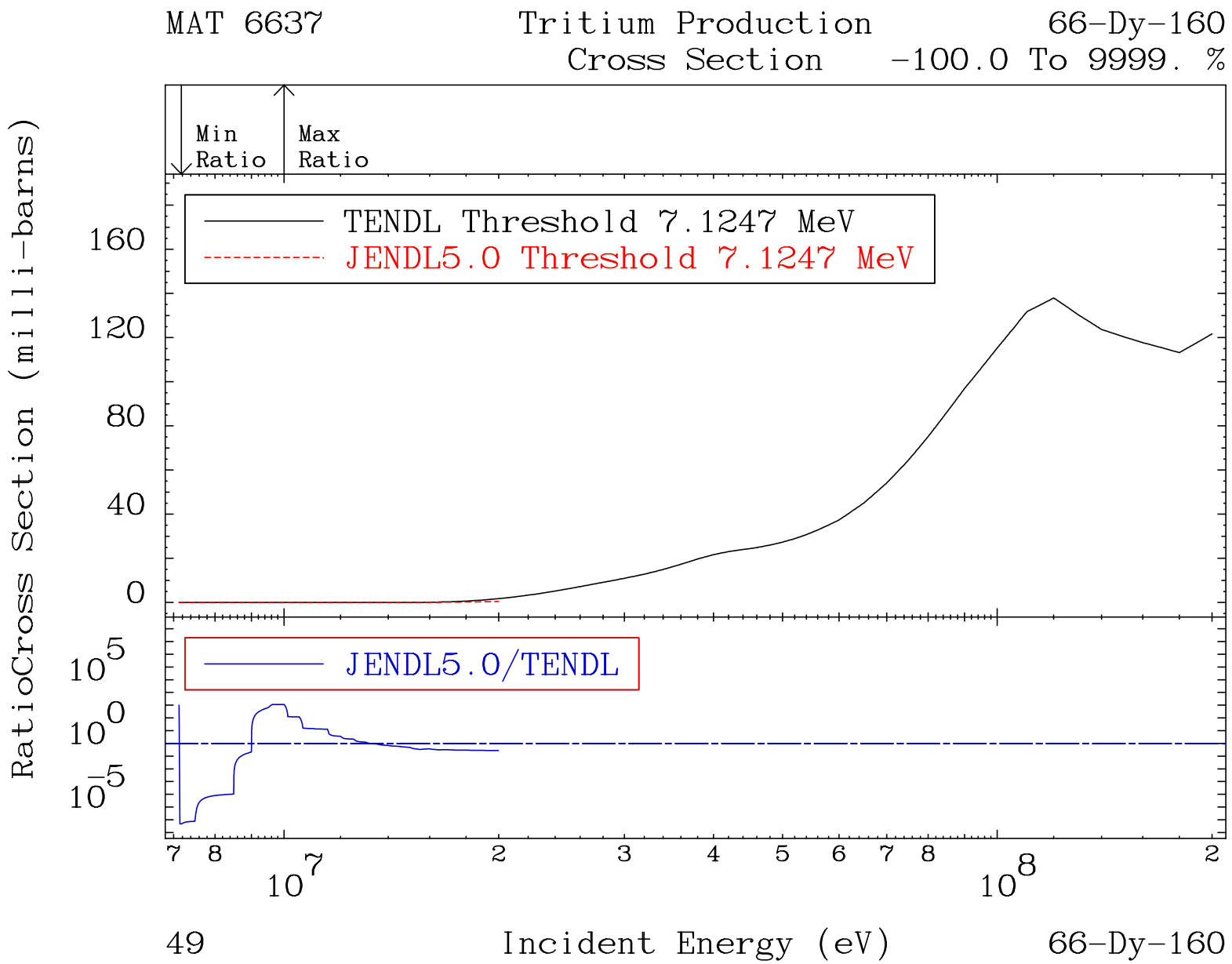

MAT 6637
(n,t)
66-Dy-160
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.1247 MeV
JENDL5.0 Threshold 7.1247 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
6
7
10^5
10^0
10^-5
7
8
10^7
2
3
4
5
6
7
8
10^8
2
44
Incident Energy (eV)
66-Dy-160

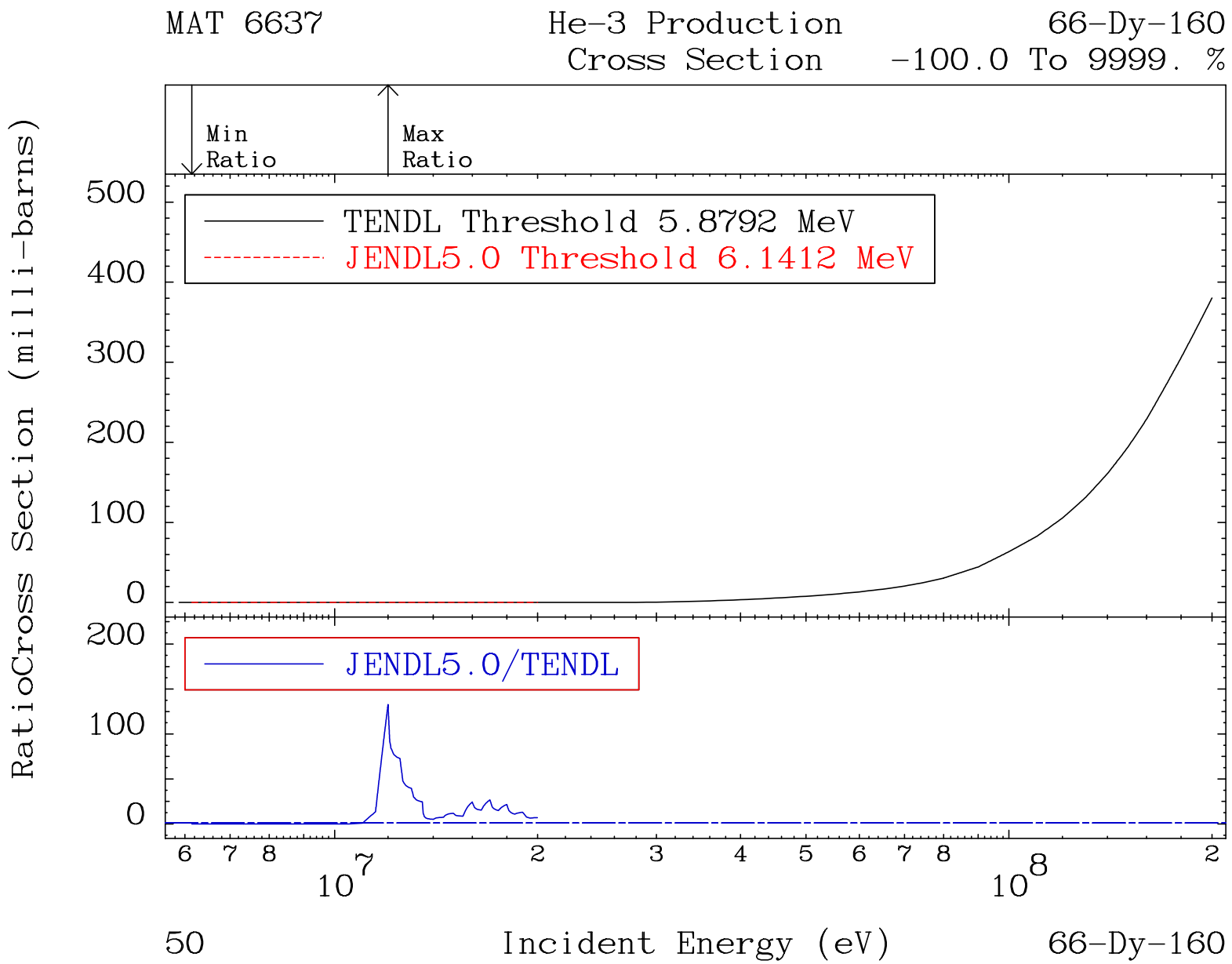

MAT 6637
(n,He-3)
66-Dy-160
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.8792 MeV
JENDL5.0 Threshold 6.1412 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
200
100
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
66-Dy-160

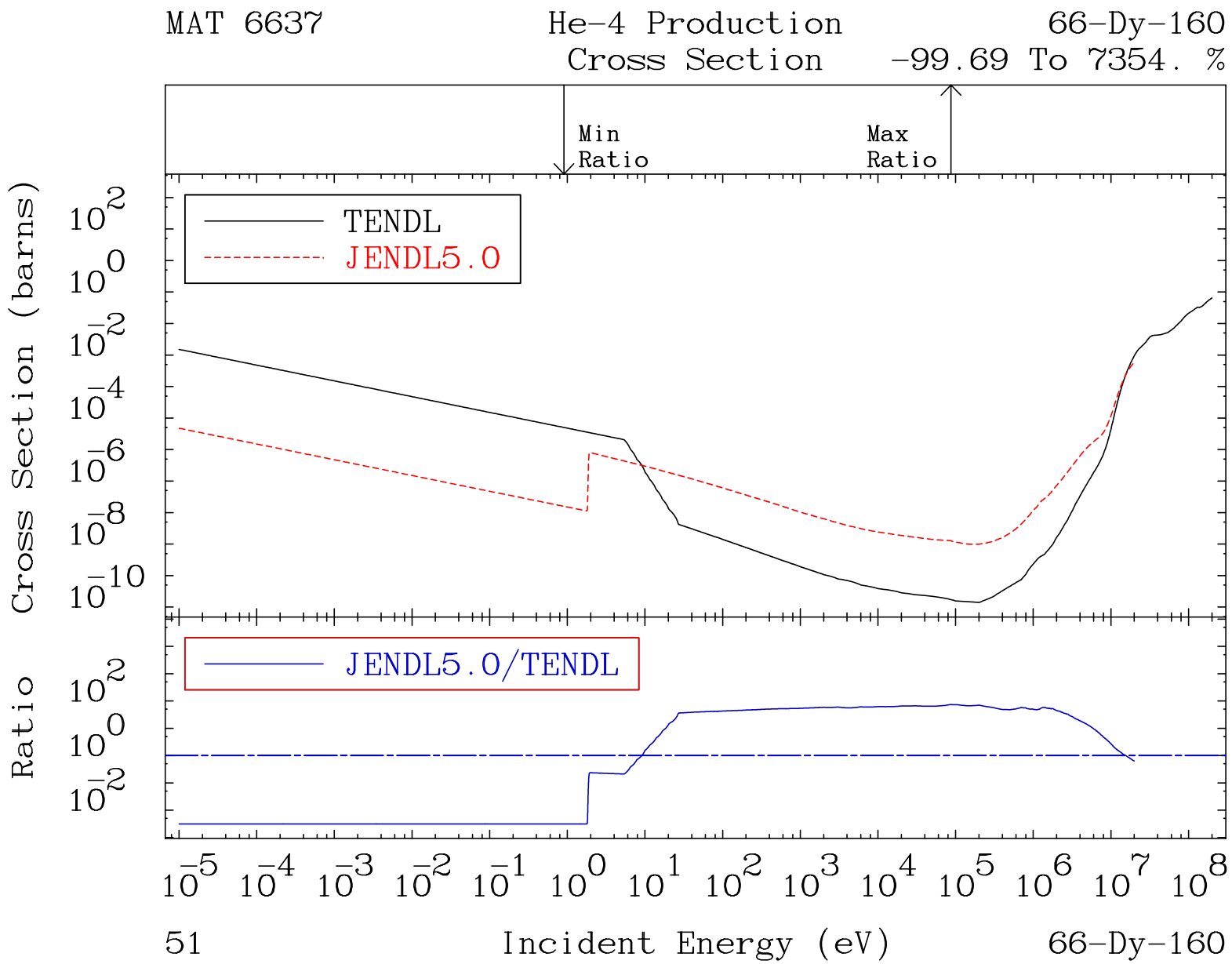

MAT 6637
(n,α)
66-Dy-160
Cross Section
-99.69 To 7354. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
66-Dy-160

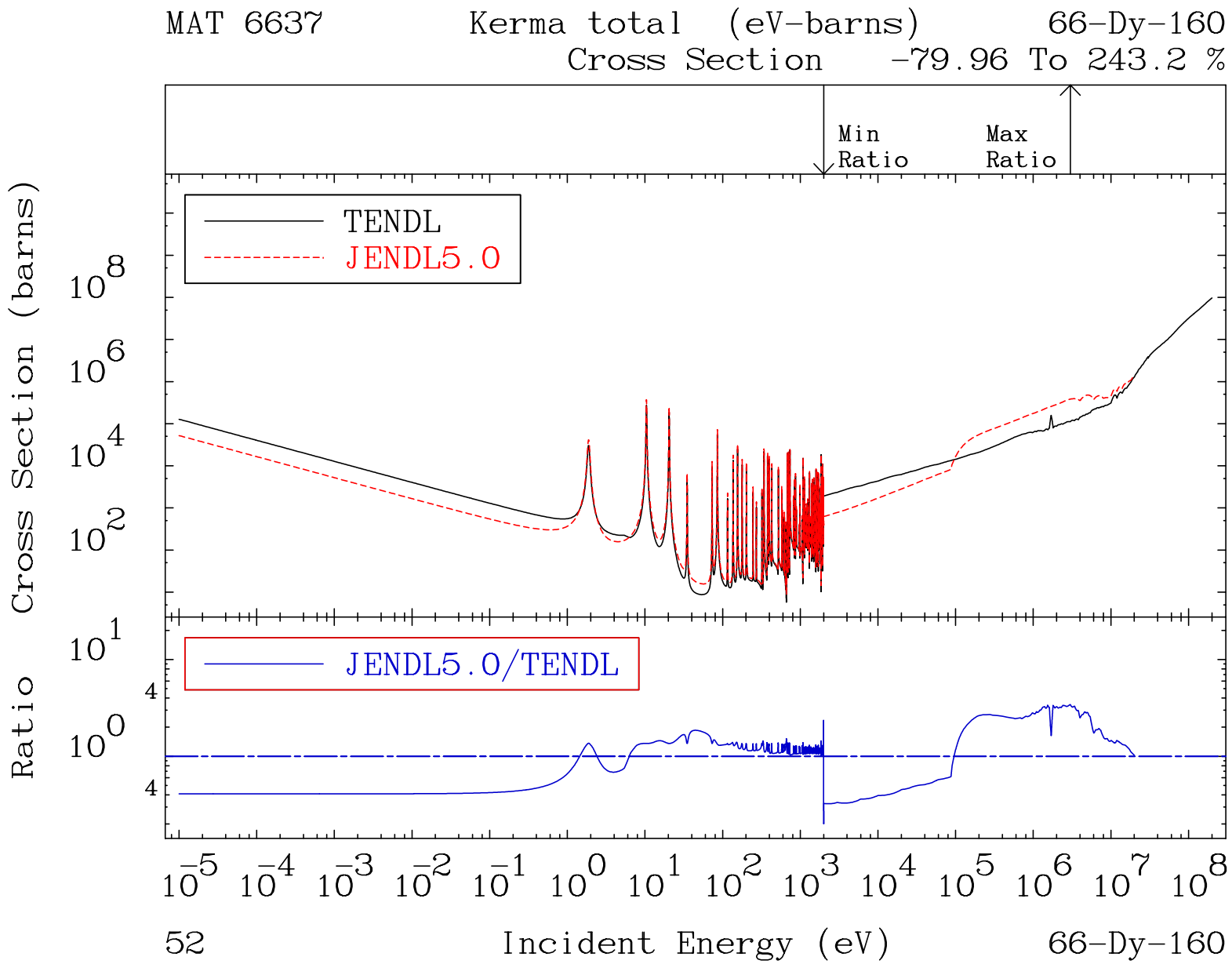

MAT 6637
Hydrogen Production
66-Dy-160
Cross Section
-51.82 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.0603 MeV
JENDL5.0 Threshold 1.0594 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
10^4
10^2
10^0
10^6
10^7
10^8
Incident Energy (eV)
47
66-Dy-160

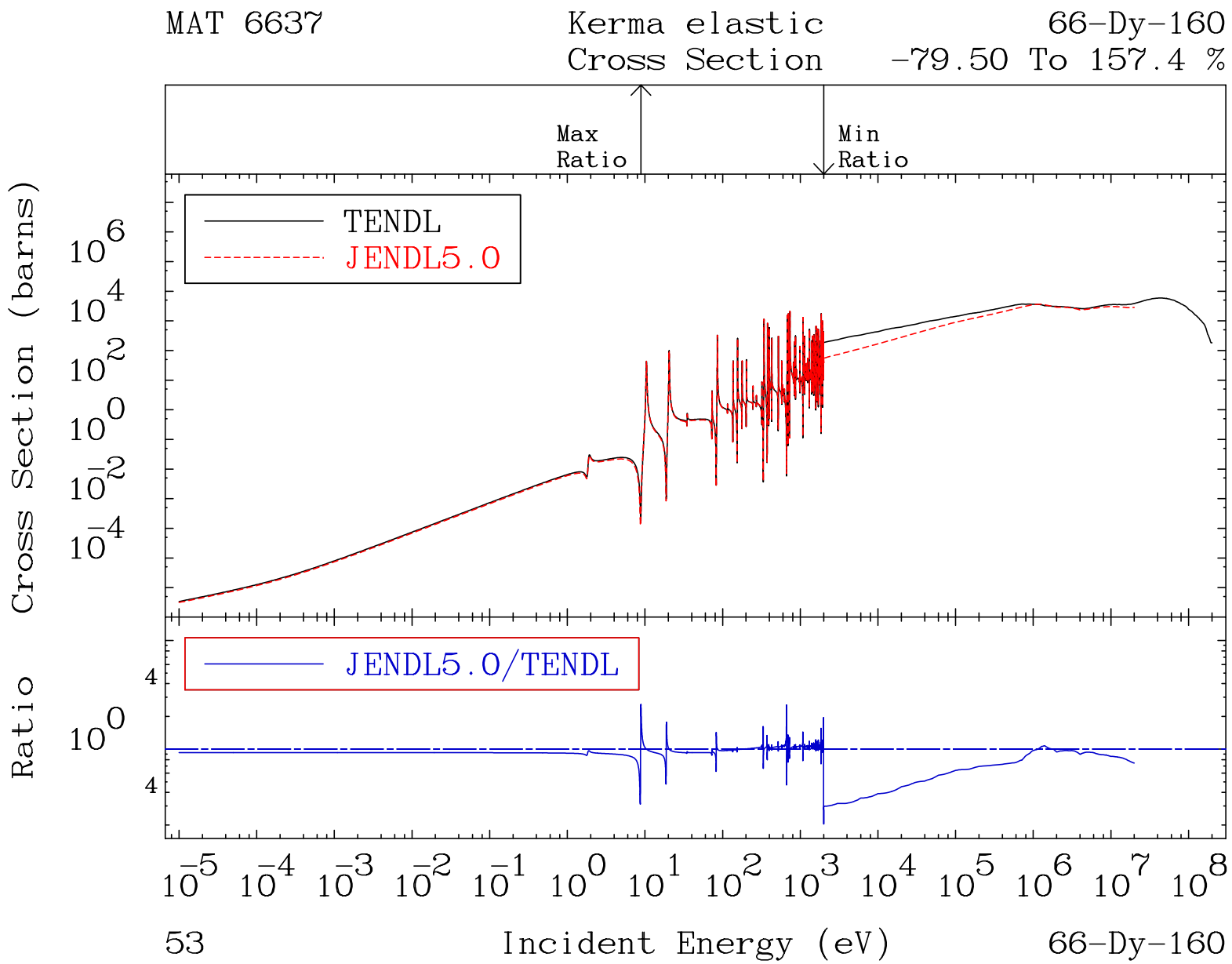

MAT 6637
Deuterium Production
66-Dy-160
Cross Section
-99.58 To 9999. %
Max
Ratio
TENDL Threshold 5.2371 MeV
JENDL5.0 Threshold 5.2362 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^3
10^0
10^-3
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
48
Incident Energy (eV)
66-Dy-160

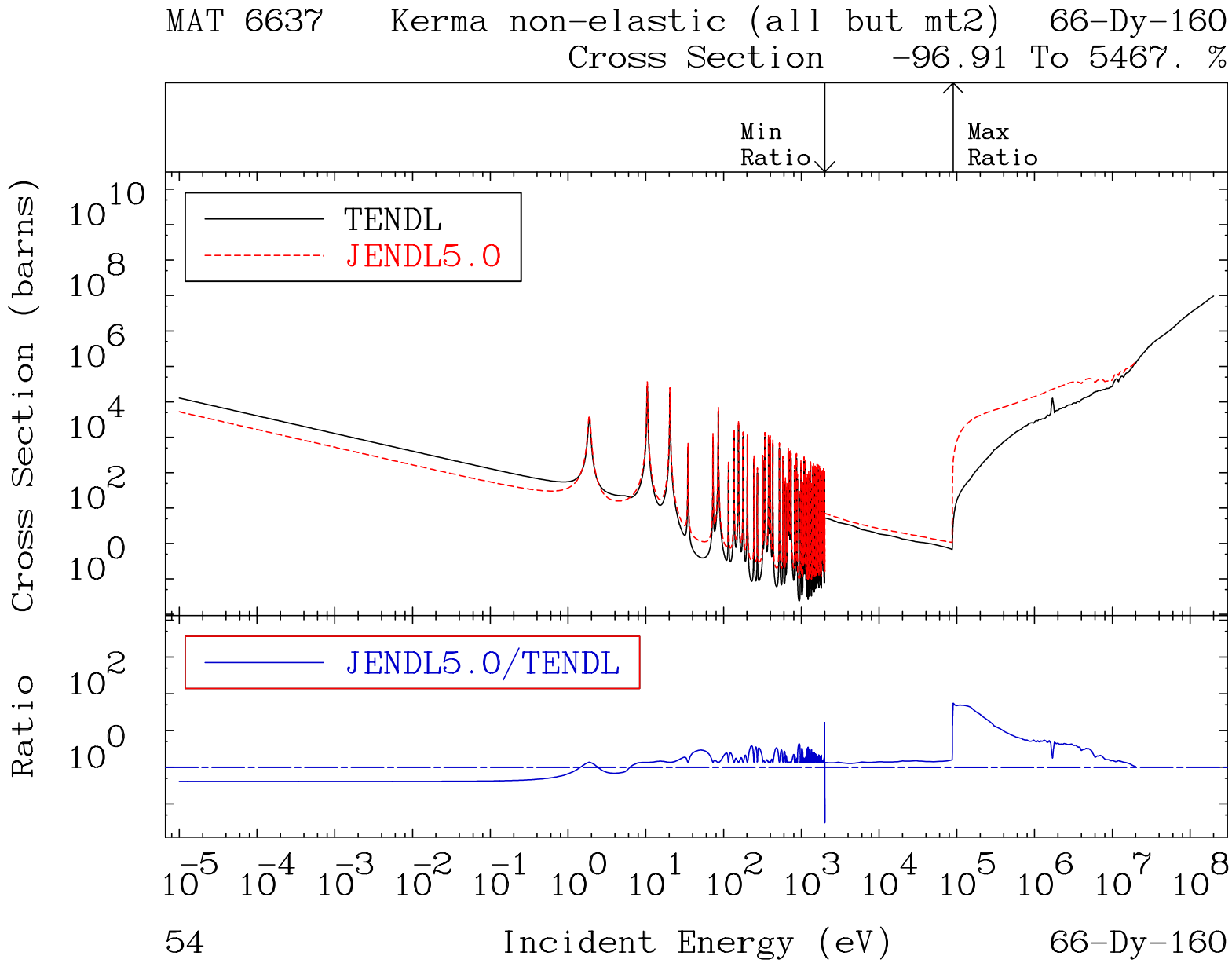

MAT 6637
Tritium Production
66-Dy-160
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.1247 MeV
JENDL5.0 Threshold 7.1247 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^5
10^0
10^-5
7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
66-Dy-160

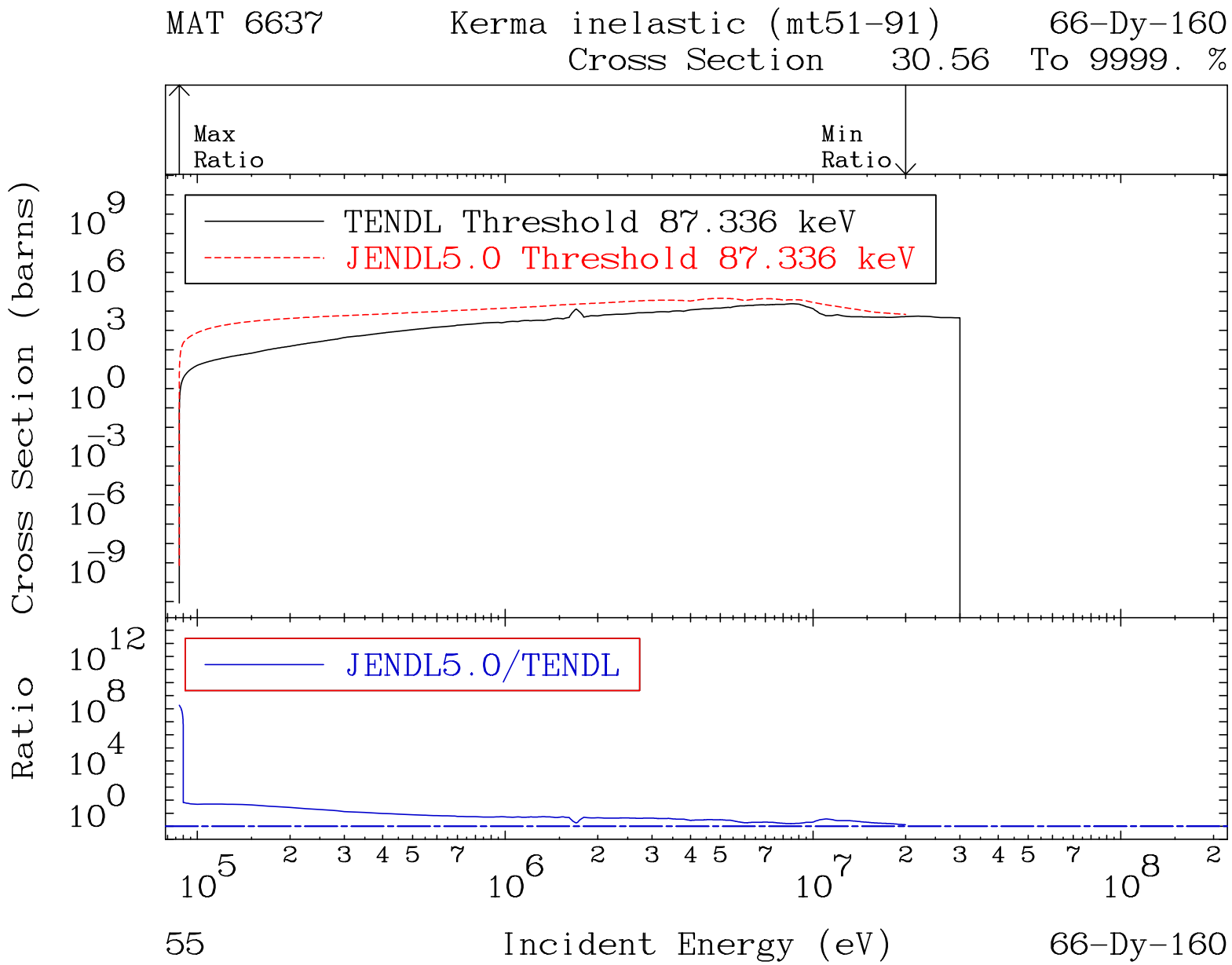

MAT 6637
He-3 Production
Cross Section
66-Dy-160
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.8792 MeV
JENDL5.0 Threshold 6.1412 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
200
100
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
66-Dy-160

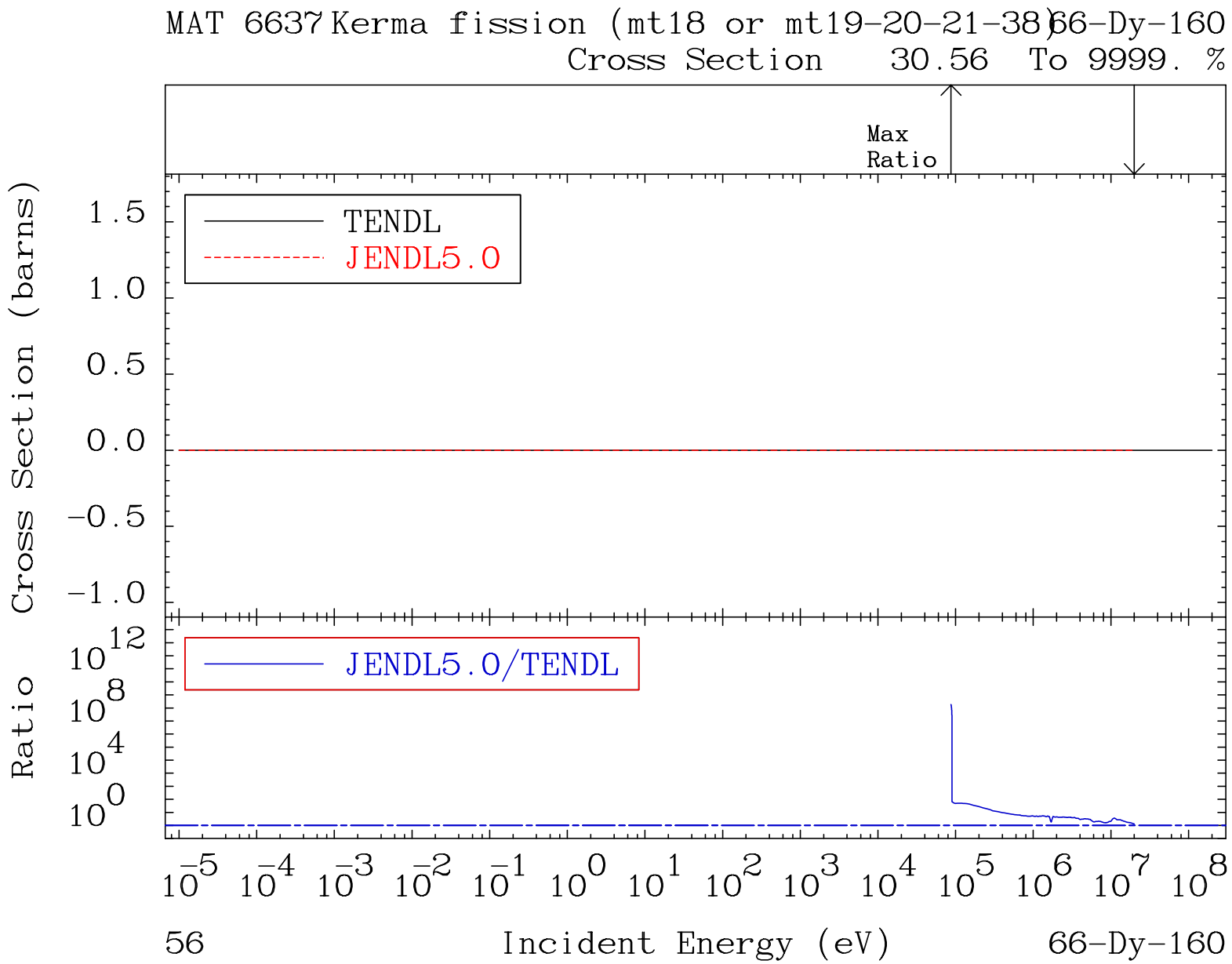

MAT 6637
He-4 Production
Cross Section
66-Dy-160
-99.69 To 7354. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
66-Dy-160

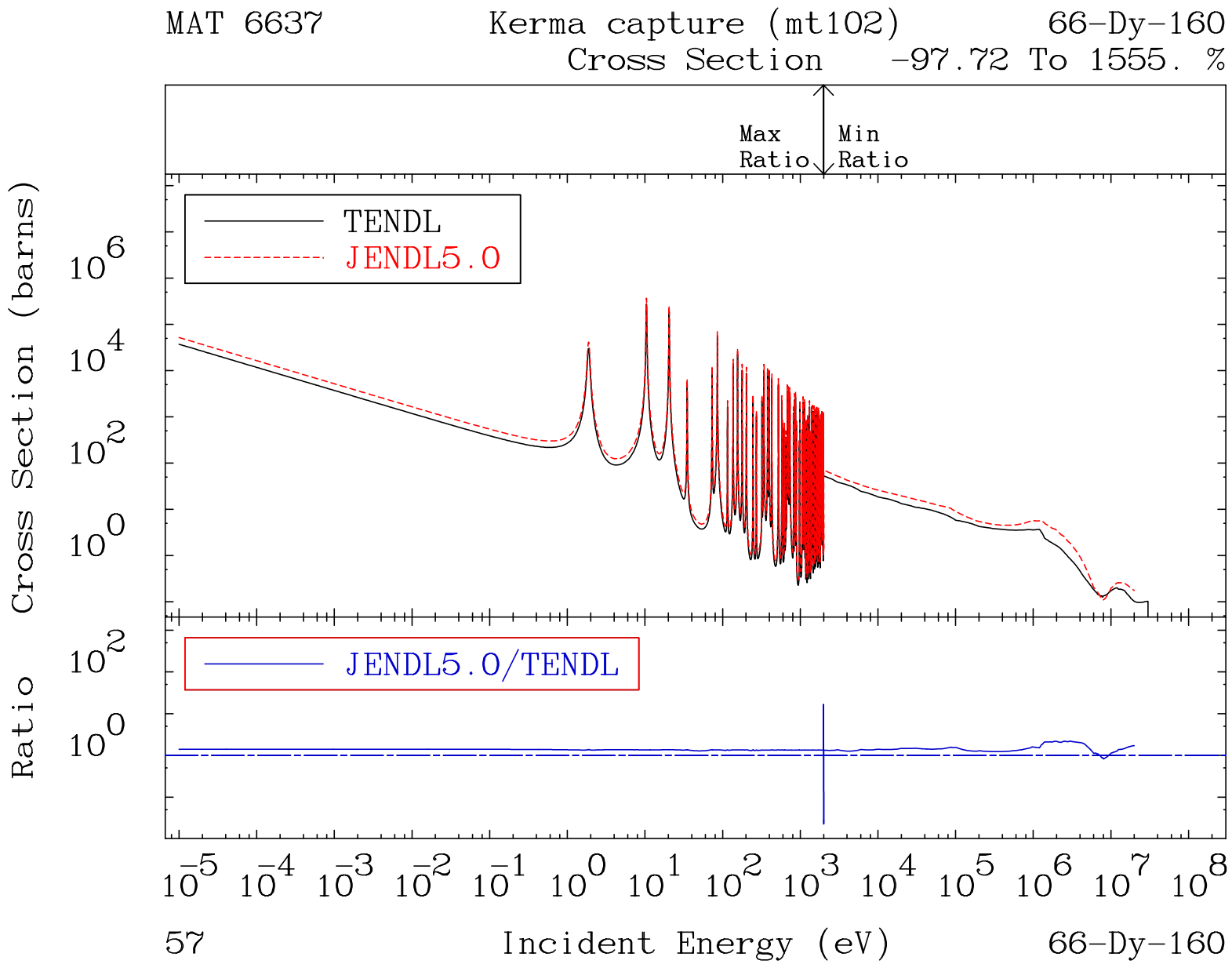

MAT 6637
Kerma total (eV-barns)
66-Dy-160
Cross Section -79.96 To 243.2 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
66-Dy-160

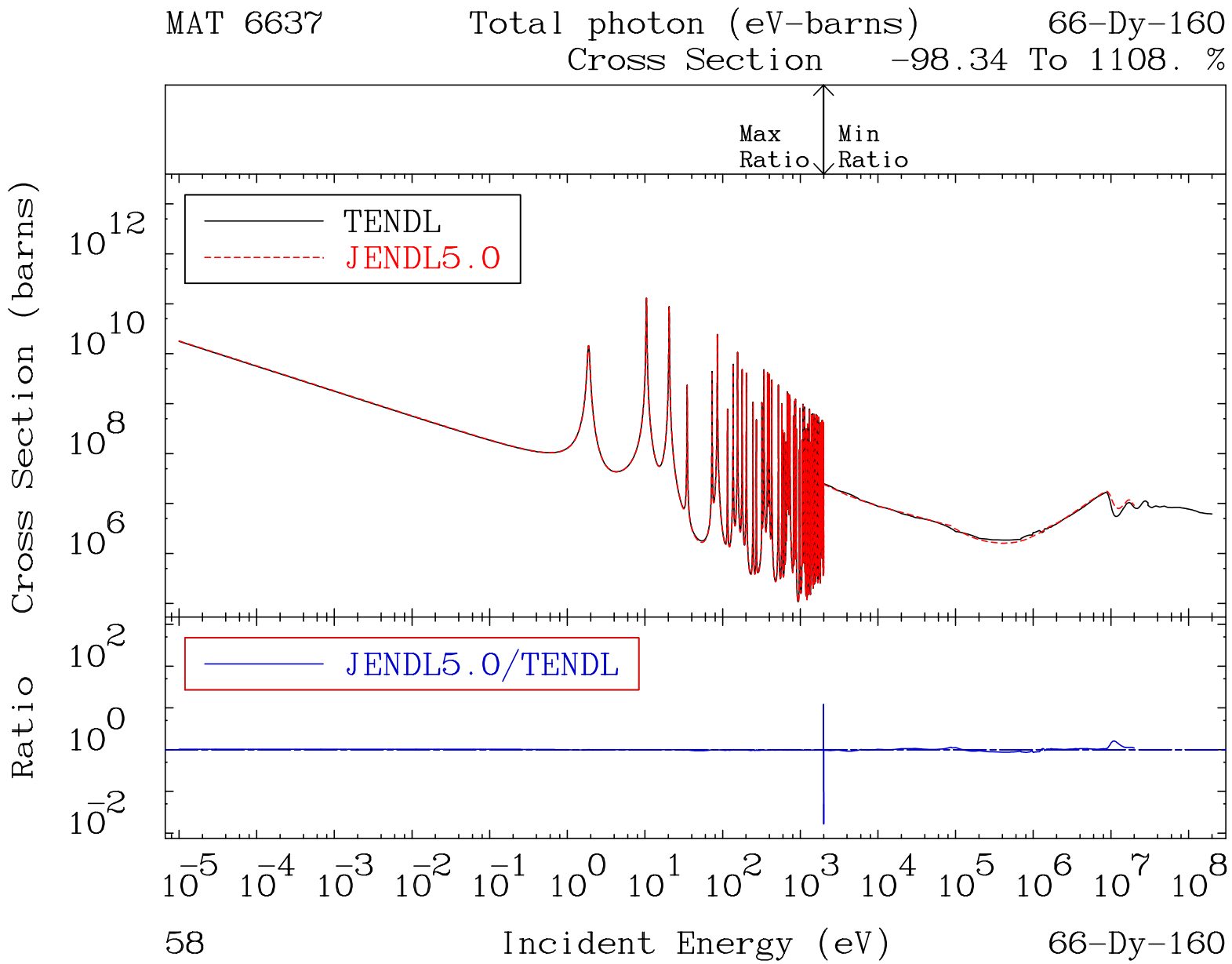

MAT 6637
Kerma elastic
Cross Section
66-Dy-160
-79.50 To 157.4 %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
66-Dy-160

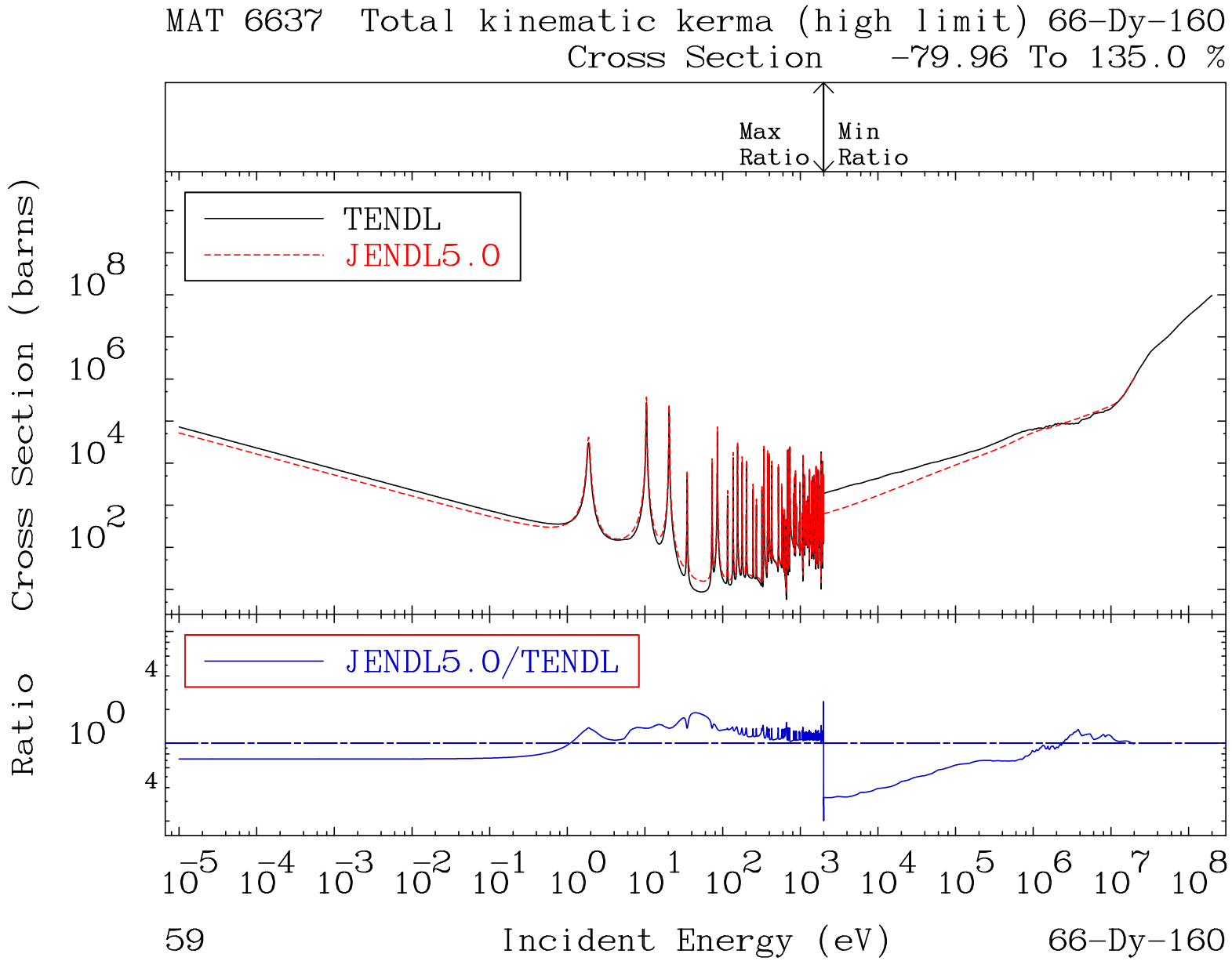

MAT 6637 Kerma non-elastic (all but mt2) 66-Dy-160
Cross Section -96.91 To 5467. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
66-Dy-160

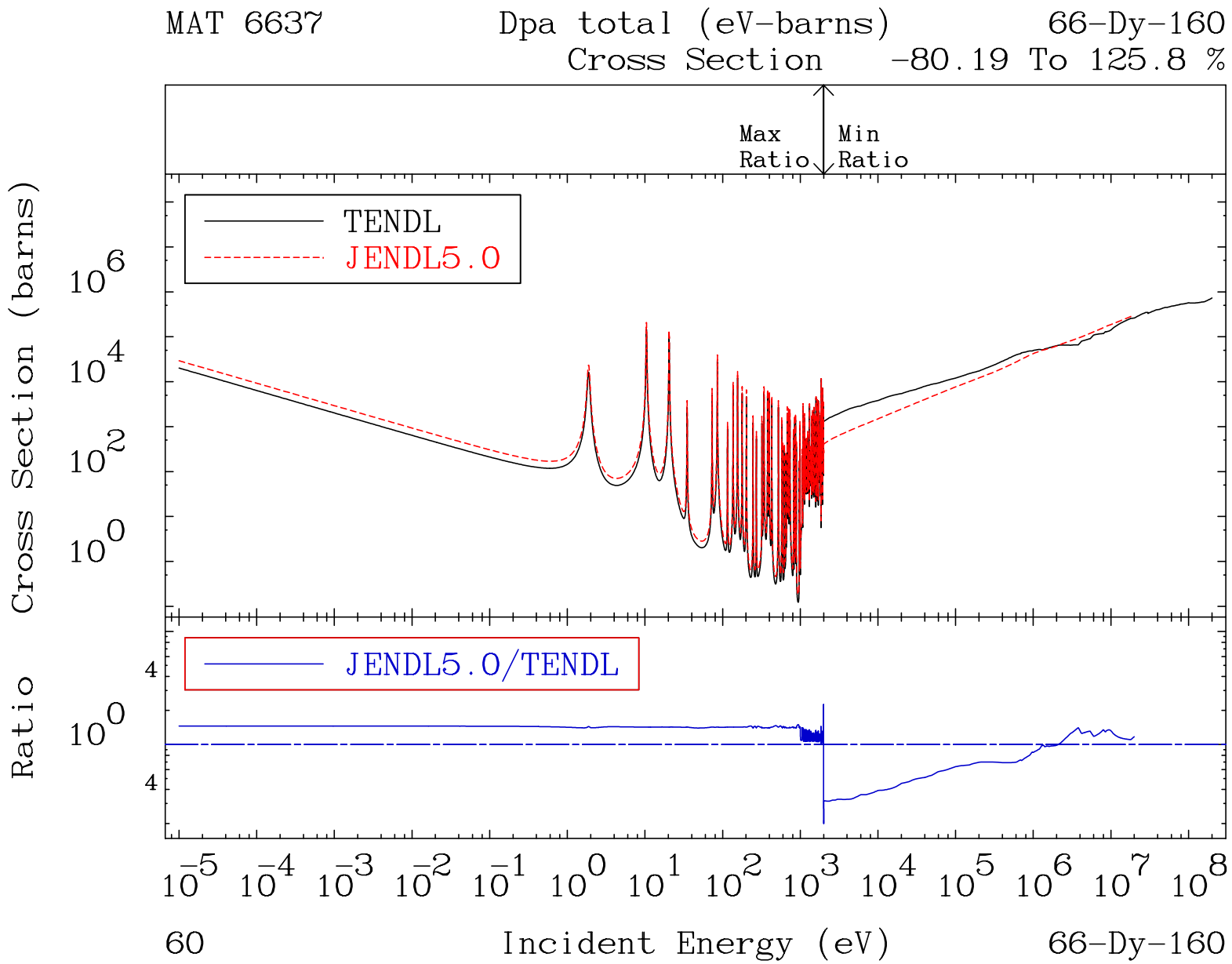

MAT 6637
Kerma inelastic (mt51-91)
66-Dy-160
Cross Section 30.56 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 87.336 keV
JENDL5.0 Threshold 87.336 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
66-Dy-160

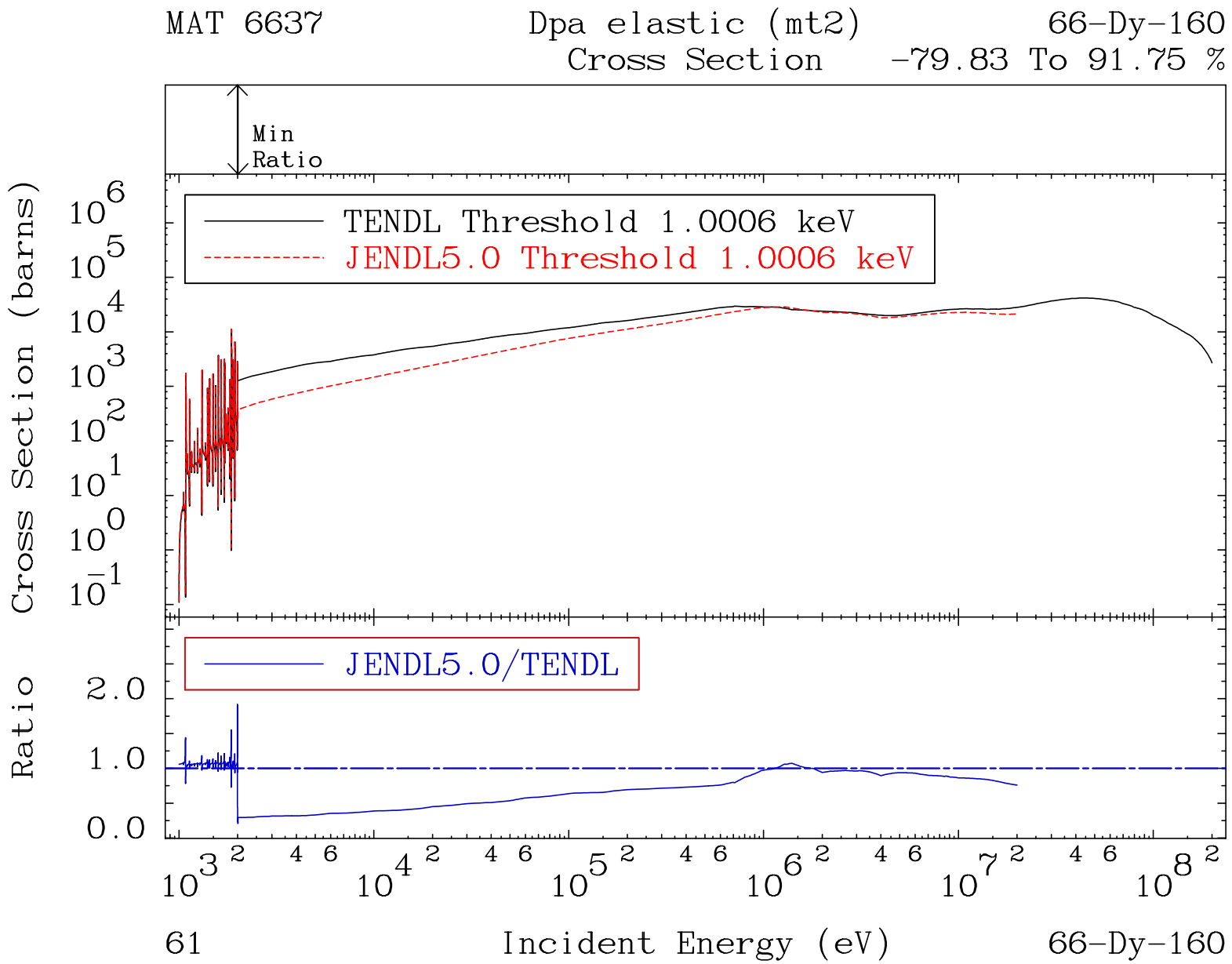

MAT 6637 Kerma fission (mt18 or mt19-20-21-38) 66-Dy-160
Cross Section 30.56 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{12}
10^{8}
10^{4}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
56
Incident Energy (eV)
66-Dy-160

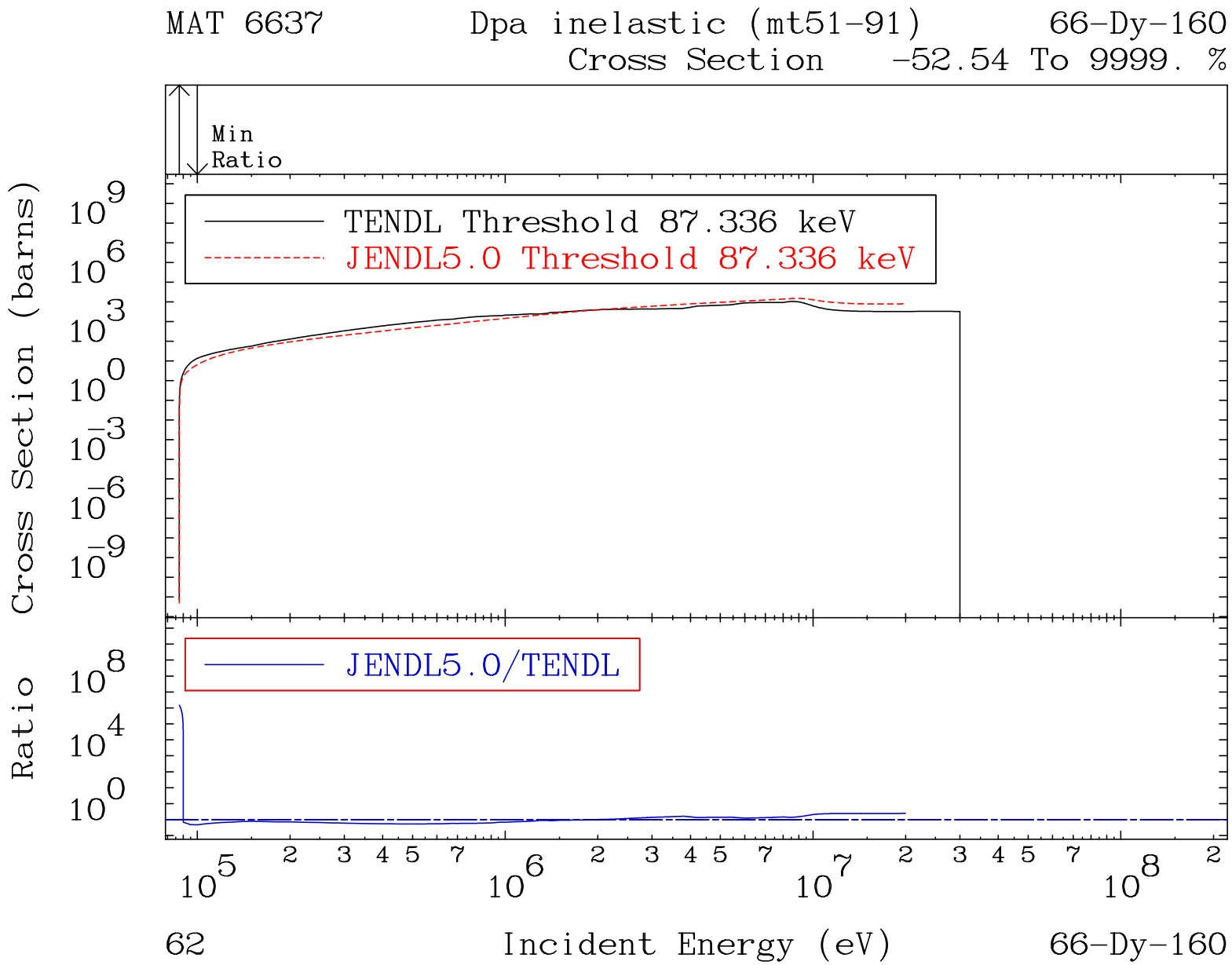

MAT 6637
Kerma capture (mt102)
66-Dy-160
Cross Section
-97.72 To 1555. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
66-Dy-160

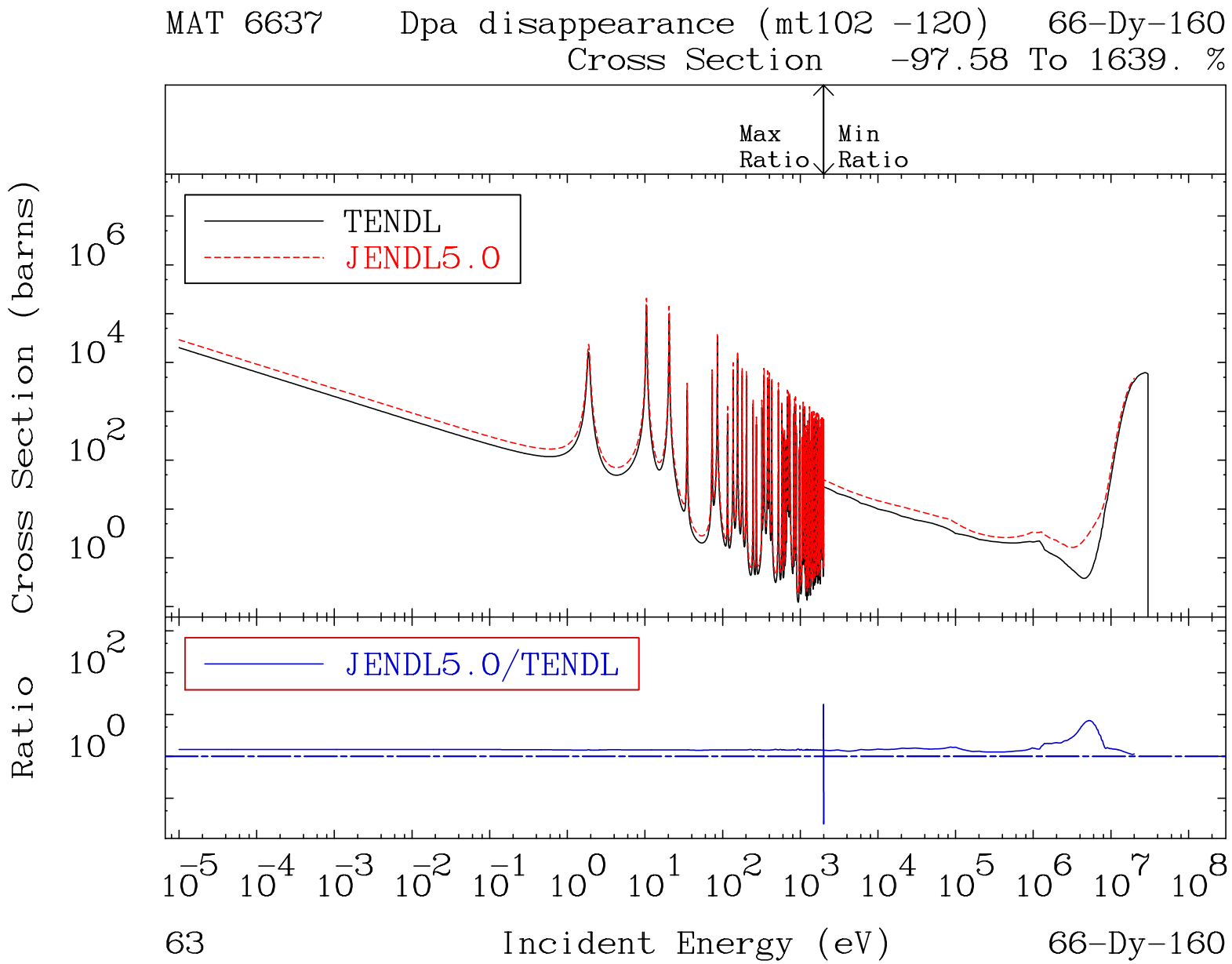

MAT 6637
Total photon (eV-barns)
66-Dy-160
Cross Section -98.34 To 1108. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
66-Dy-160

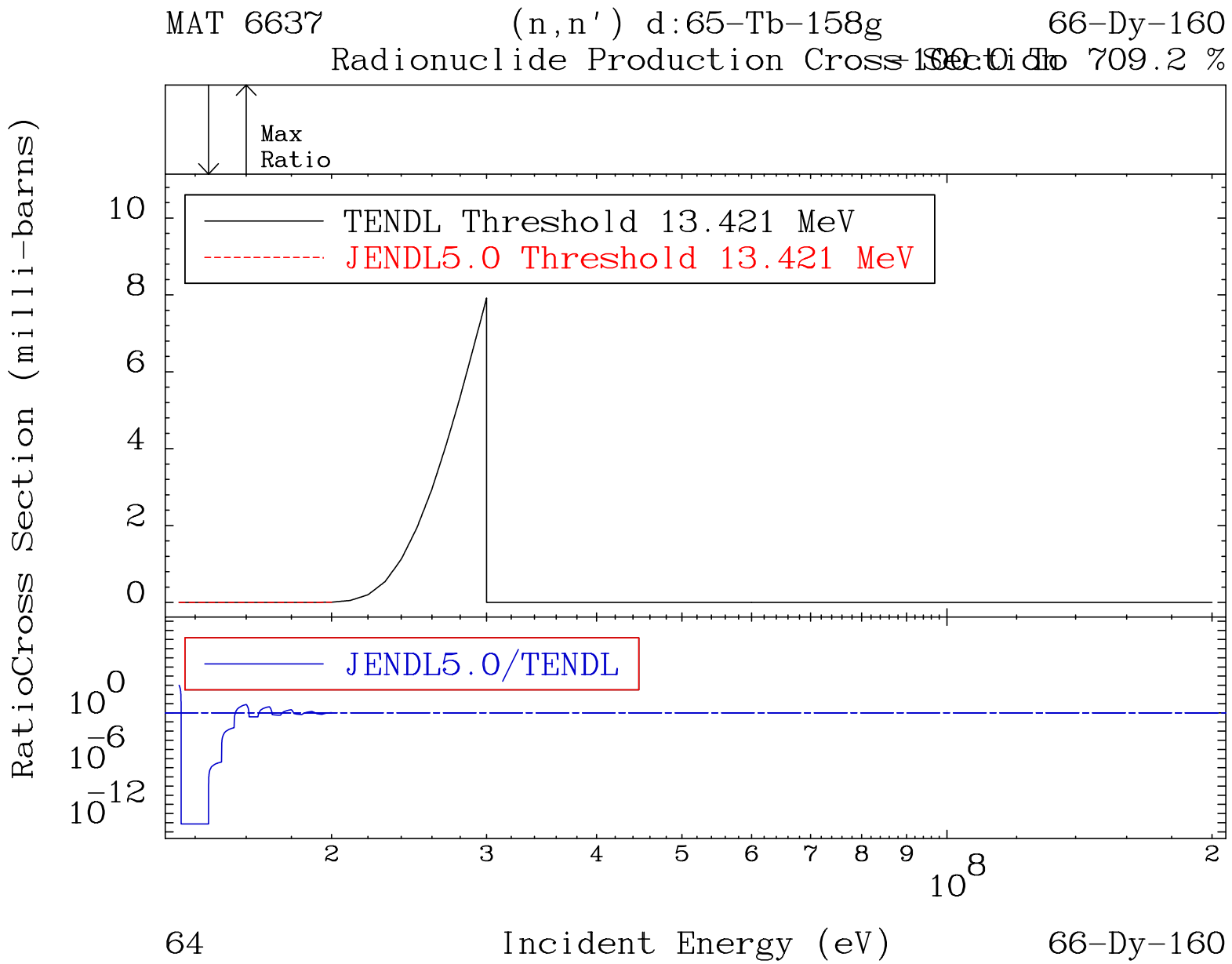

MAT 6637 Total kinematic kerma (high limit) 66-Dy-160
Cross Section -79.96 To 135.0 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
66-Dy-160

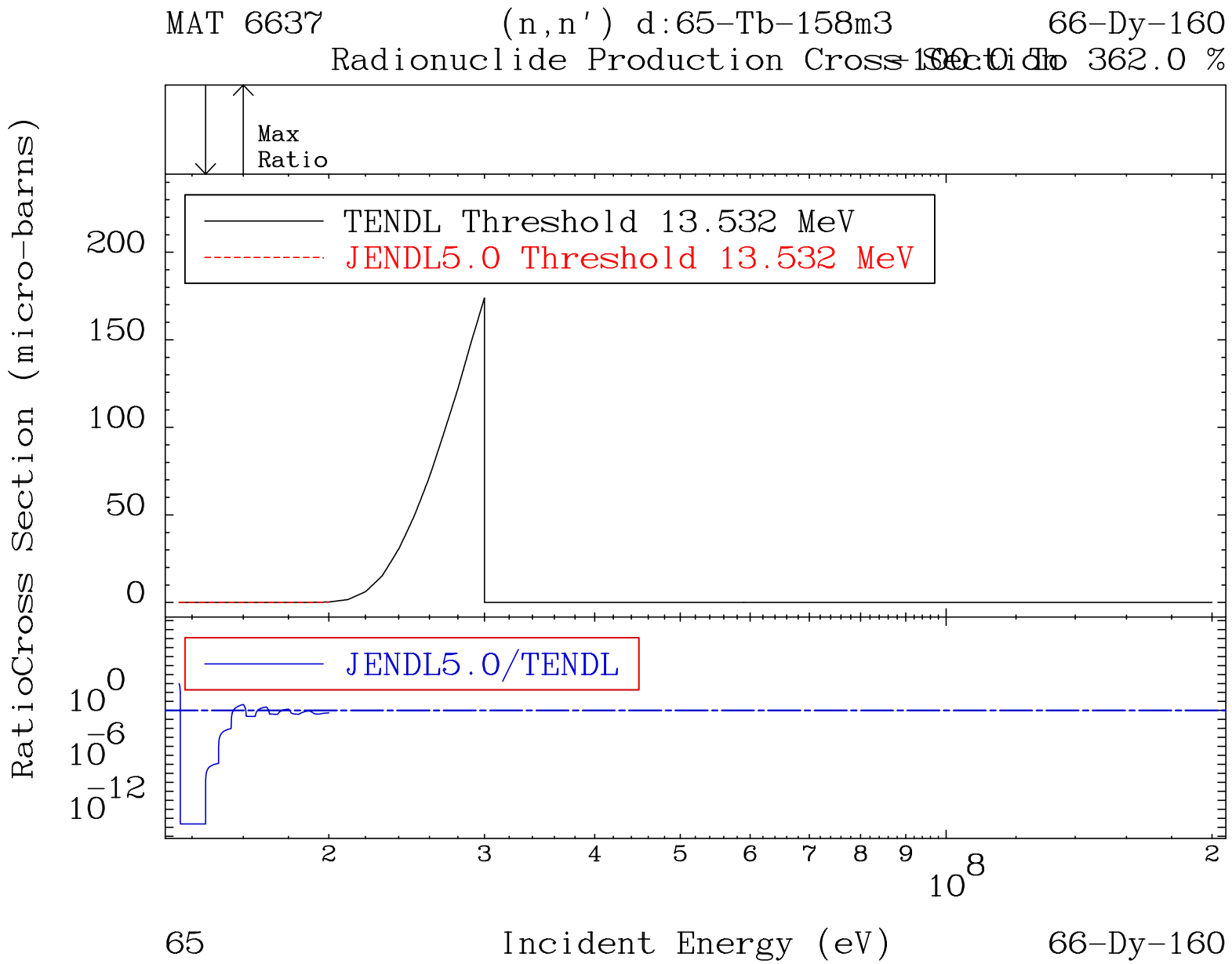

MAT 6637
Dpa total (eV-barns)
66-Dy-160
Cross Section
-80.19 To 125.8 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
66-Dy-160

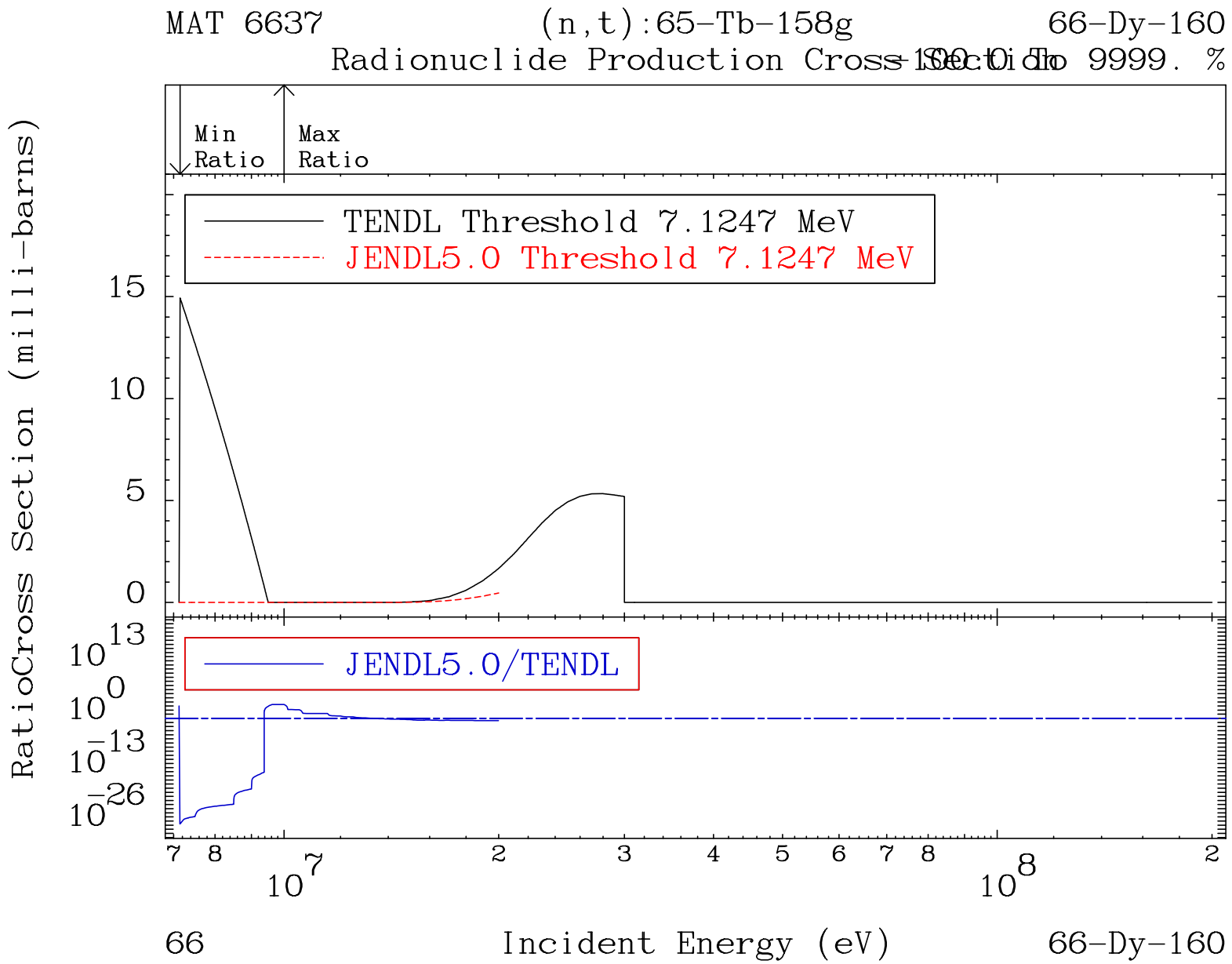

MAT 6637
Dpa elastic (mt2)
Cross Section
66-Dy-160
-79.83 To 91.75 %
Min
Ratio
TENDL Threshold 1.0006 keV
JENDL5.0 Threshold 1.0006 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
66-Dy-160

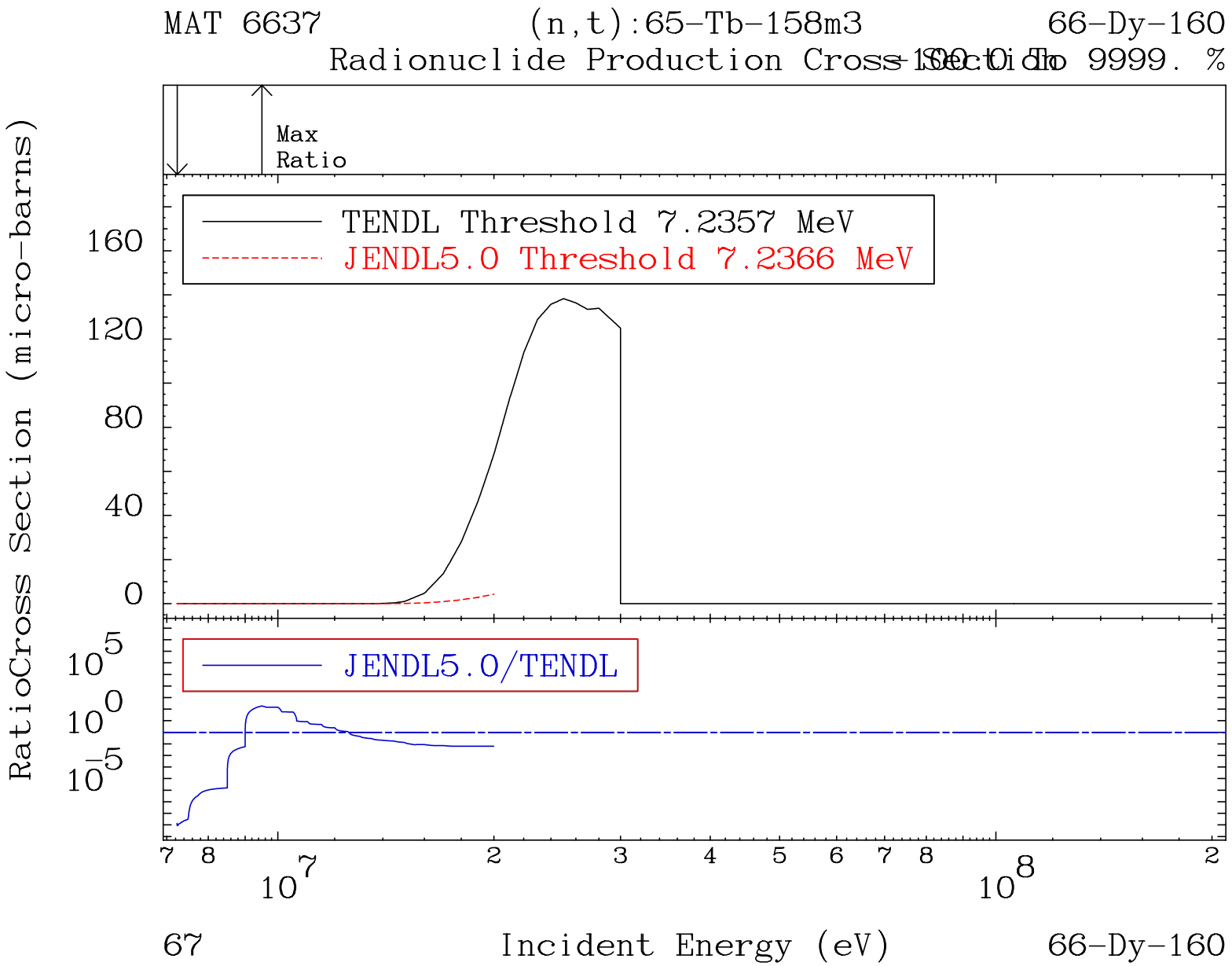

MAT 6637
Dpa inelastic (mt51-91)
66-Dy-160
Cross Section -52.54 To 9999. %
Min
Ratio
TENDL Threshold 87.336 keV
JENDL5.0 Threshold 87.336 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
66-Dy-160

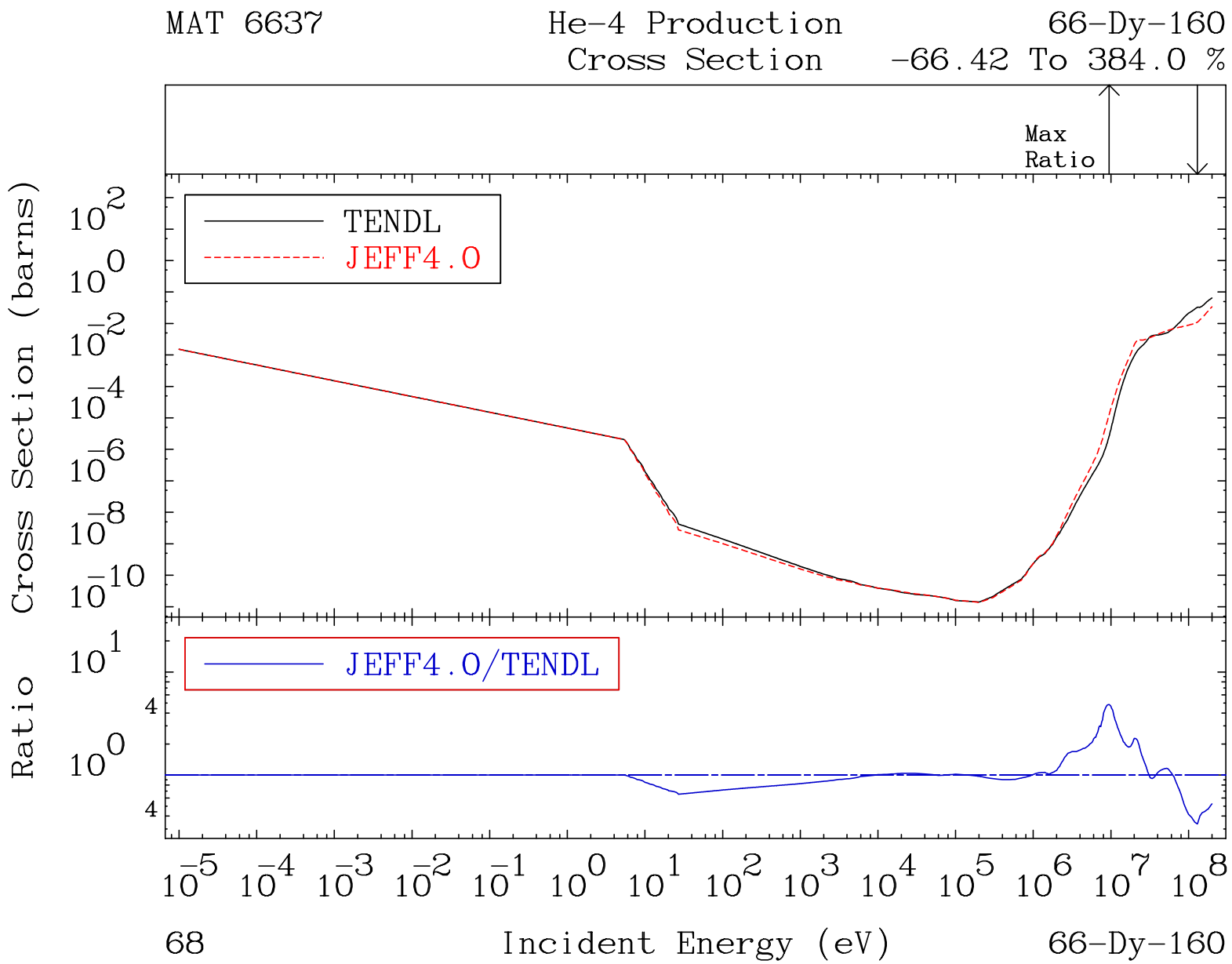

MAT 6637 Dpa disappearance (mt102 -120) 66-Dy-160
Cross Section -97.58 To 1639. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
63
66-Dy-160

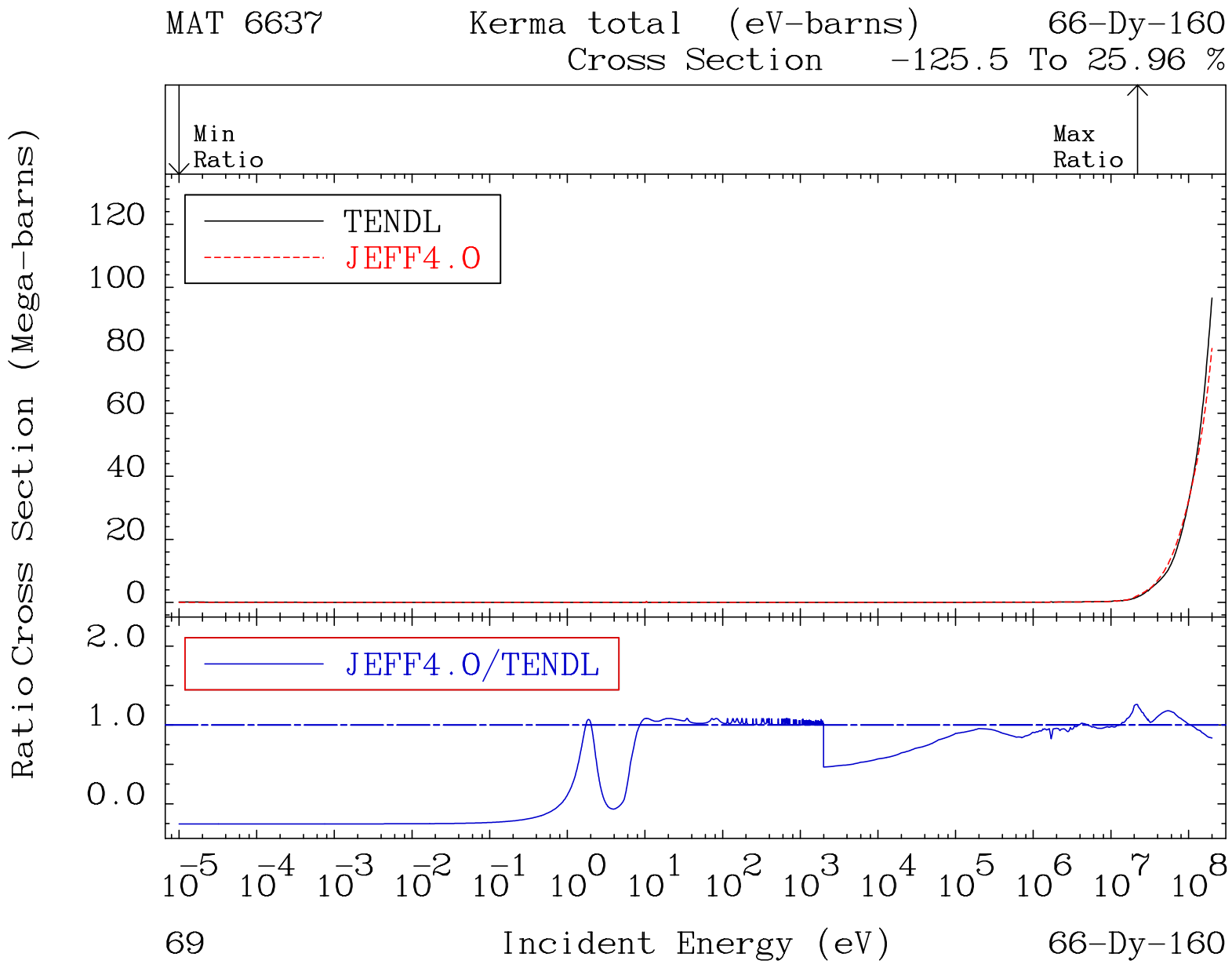

MAT 6637
(n,n') d:65-Tb-158g
66-Dy-160
Radionuclide Production Cross Section to 709.2 %
Max
Ratio
TENDL Threshold 13.421 MeV
JENDL5.0 Threshold 13.421 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
64
66-Dy-160

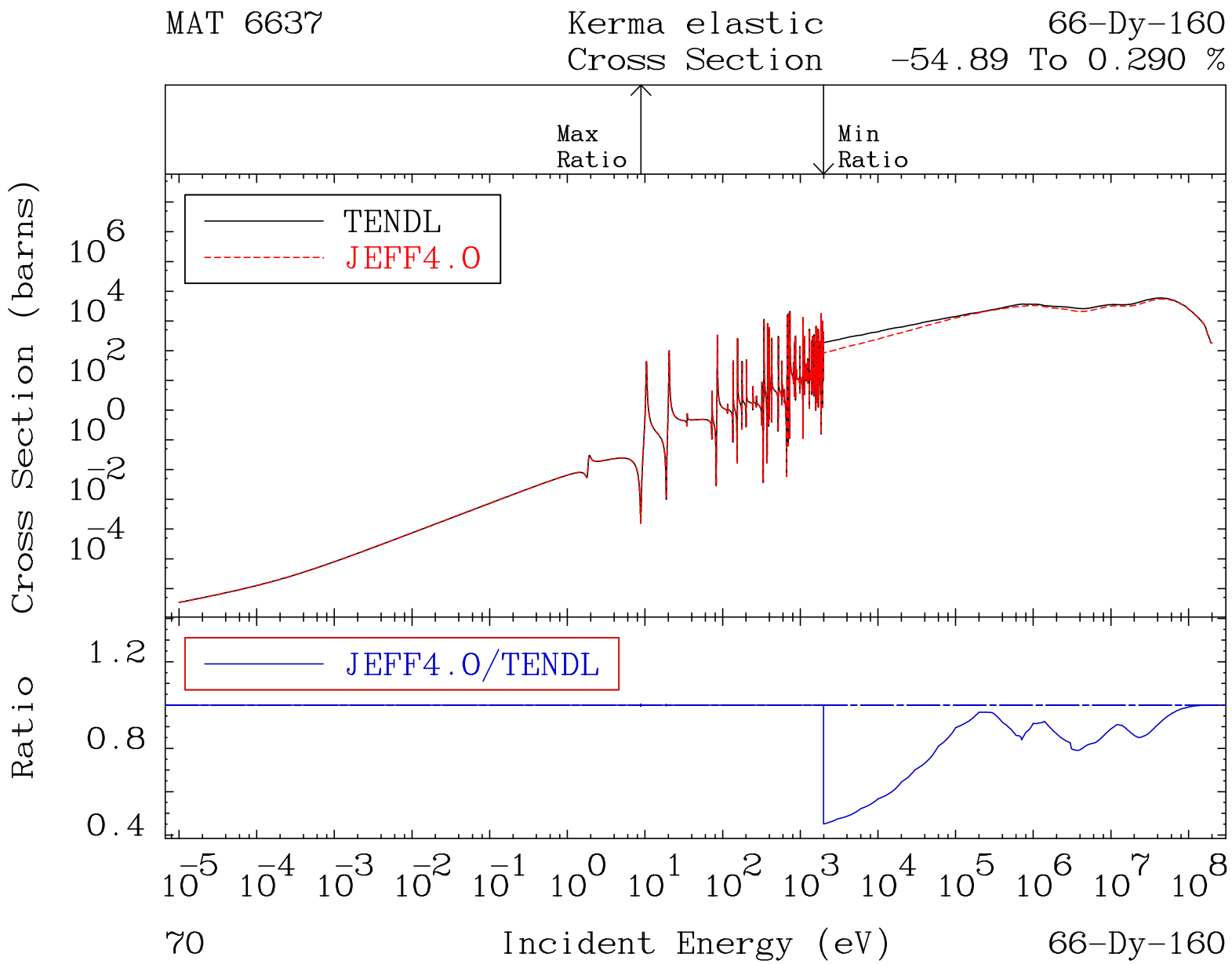

MAT 6637
(n,n') d:65-Tb-158m3
66-Dy-160
Radionuclide Production Cross Section To 362.0 %
Max
Ratio
TENDL Threshold 13.532 MeV
JENDL5.0 Threshold 13.532 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
200
150
100
50
0
10^{0}
10^{-6}
10^{-12}
2
3
4
5
6
7
8
9
10^{8}
2
65
Incident Energy (eV)
66-Dy-160

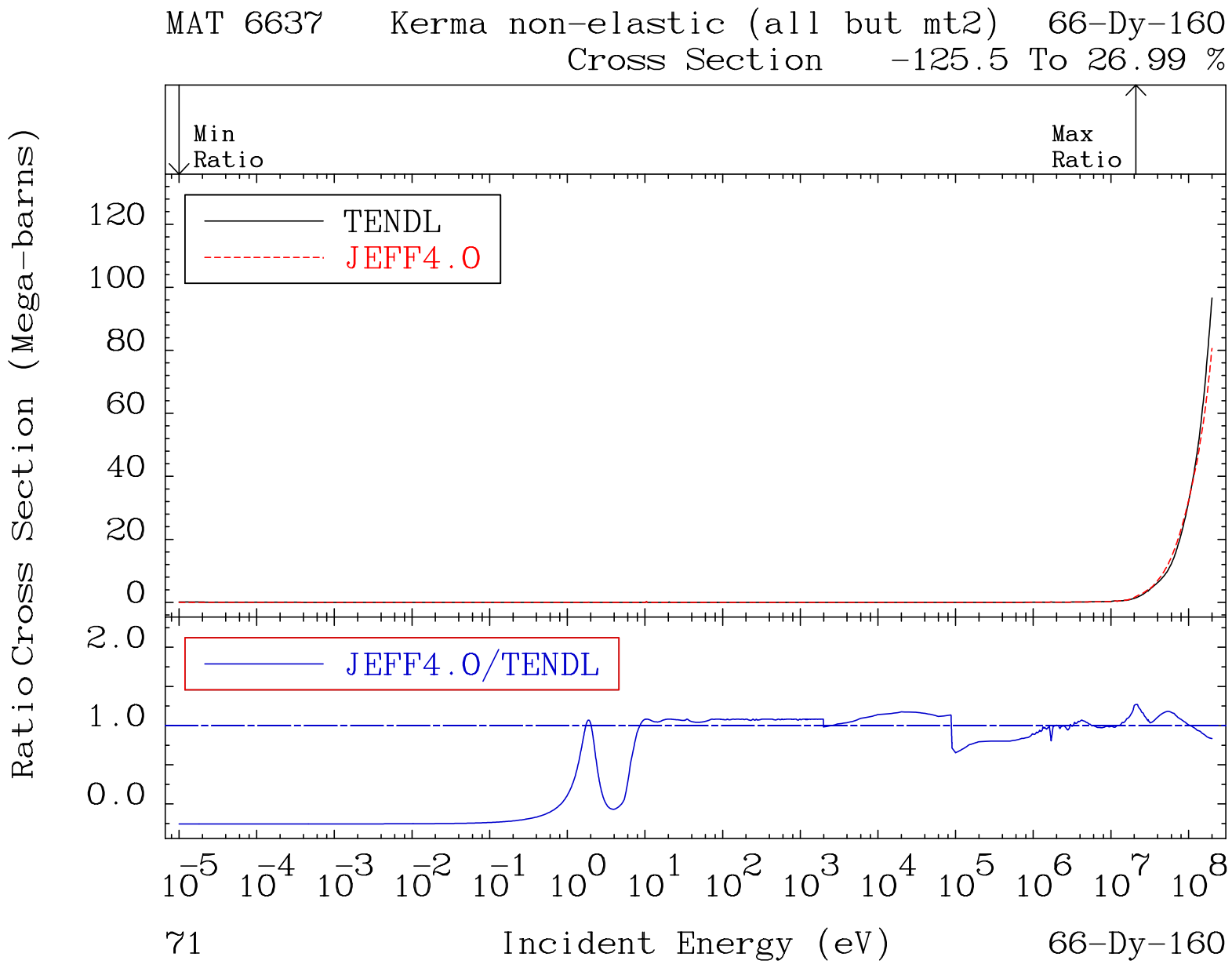

MAT 6637
(n,t):65-Tb-158g
66-Dy-160
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.1247 MeV
JENDL5.0 Threshold 7.1247 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
10^13
10^0
10^-13
10^-26
7 8 10^7 2 3 4 5 6 7 8 10^8 2
66
Incident Energy (eV)
66-Dy-160

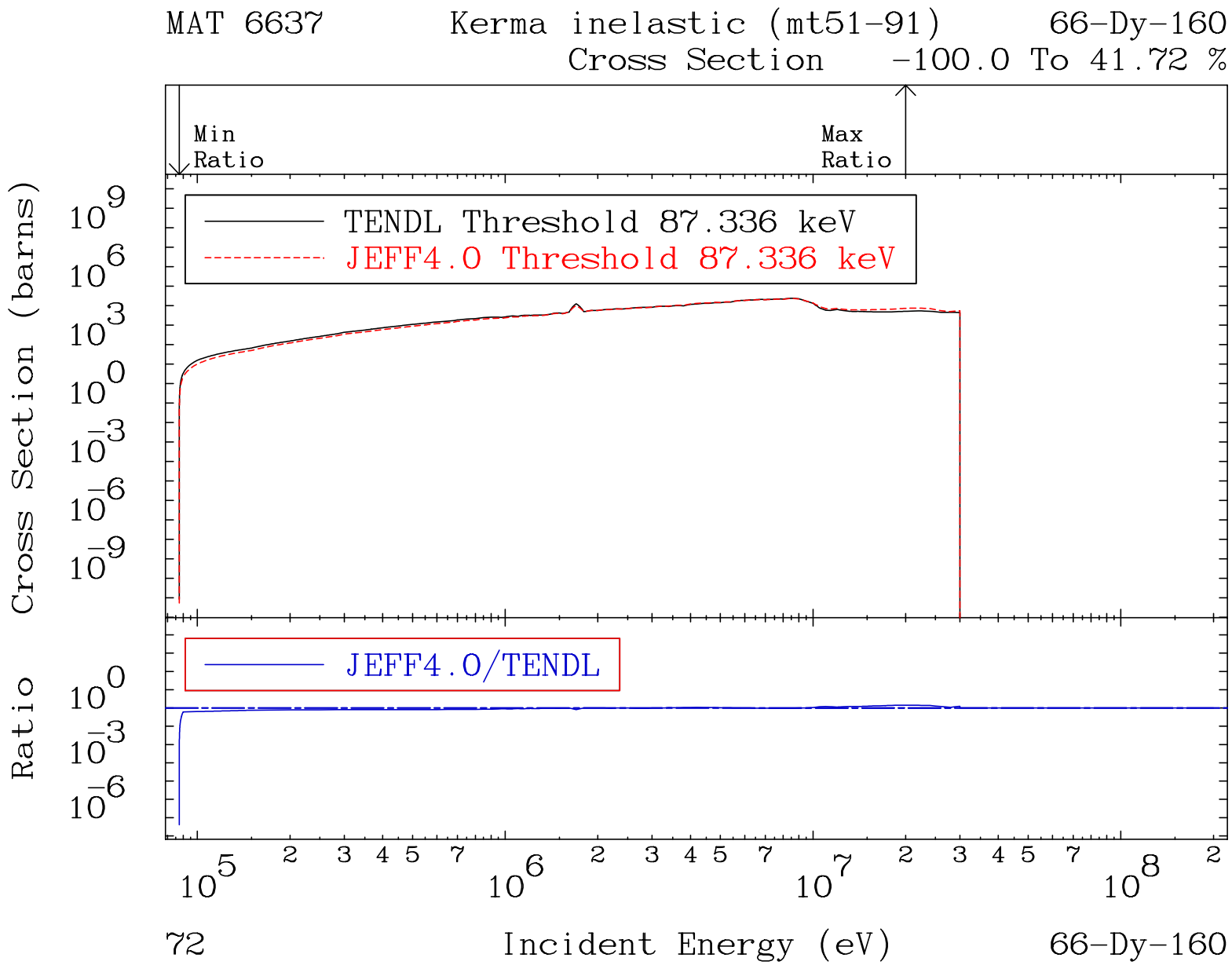

MAT 6637
(n,t):65-Tb-158m3
66-Dy-160
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 7.2357 MeV
JENDL5.0 Threshold 7.2366 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
160
120
80
40
0
10^5
10^0
10^-5
7 8 10^7 2 3 4 5 6 7 8 10^8 2
67
Incident Energy (eV)
66-Dy-160

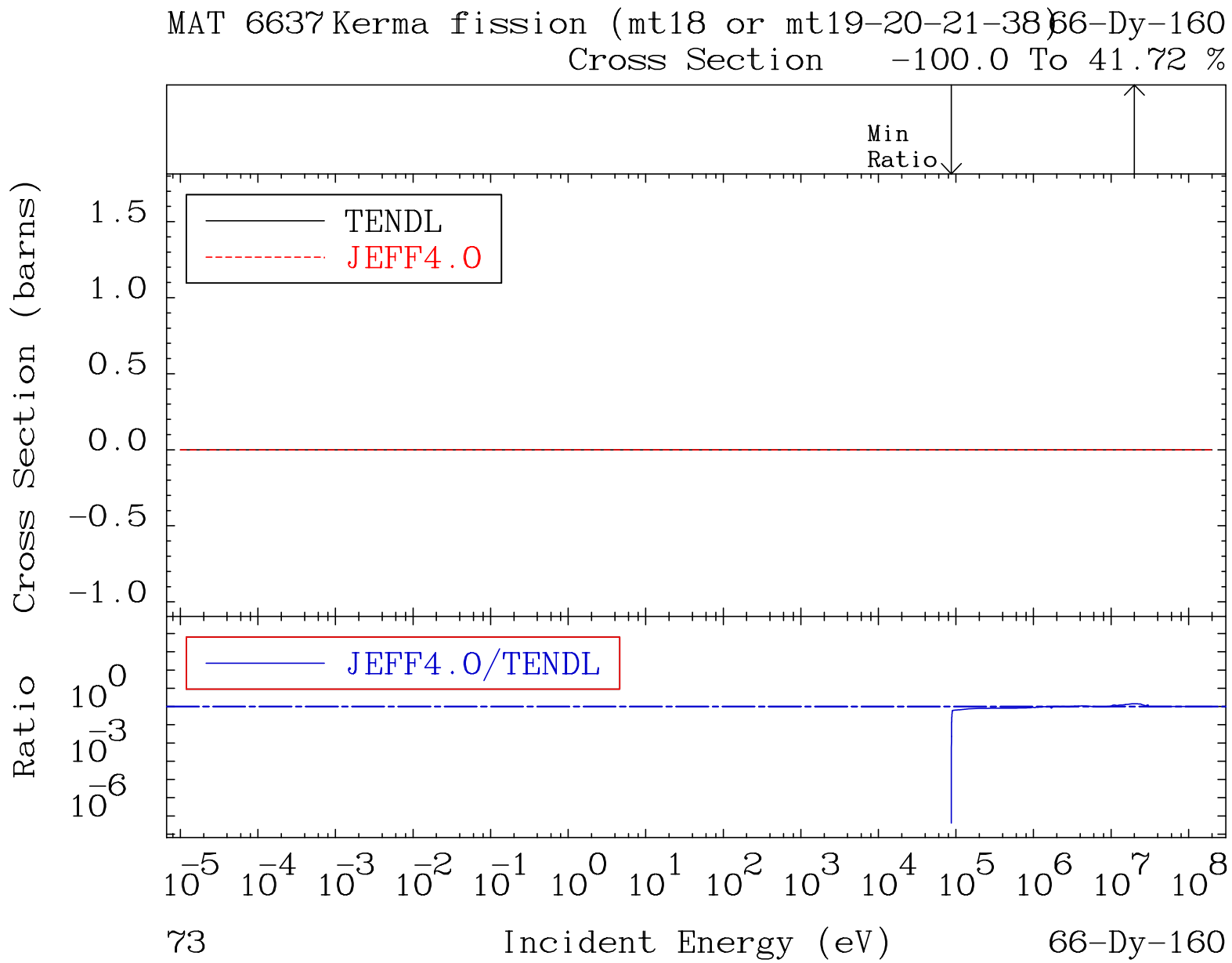

MAT 6637
He-4 Production
Cross Section
66-Dy-160
-66.42 To 384.0 %
Max
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
66-Dy-160

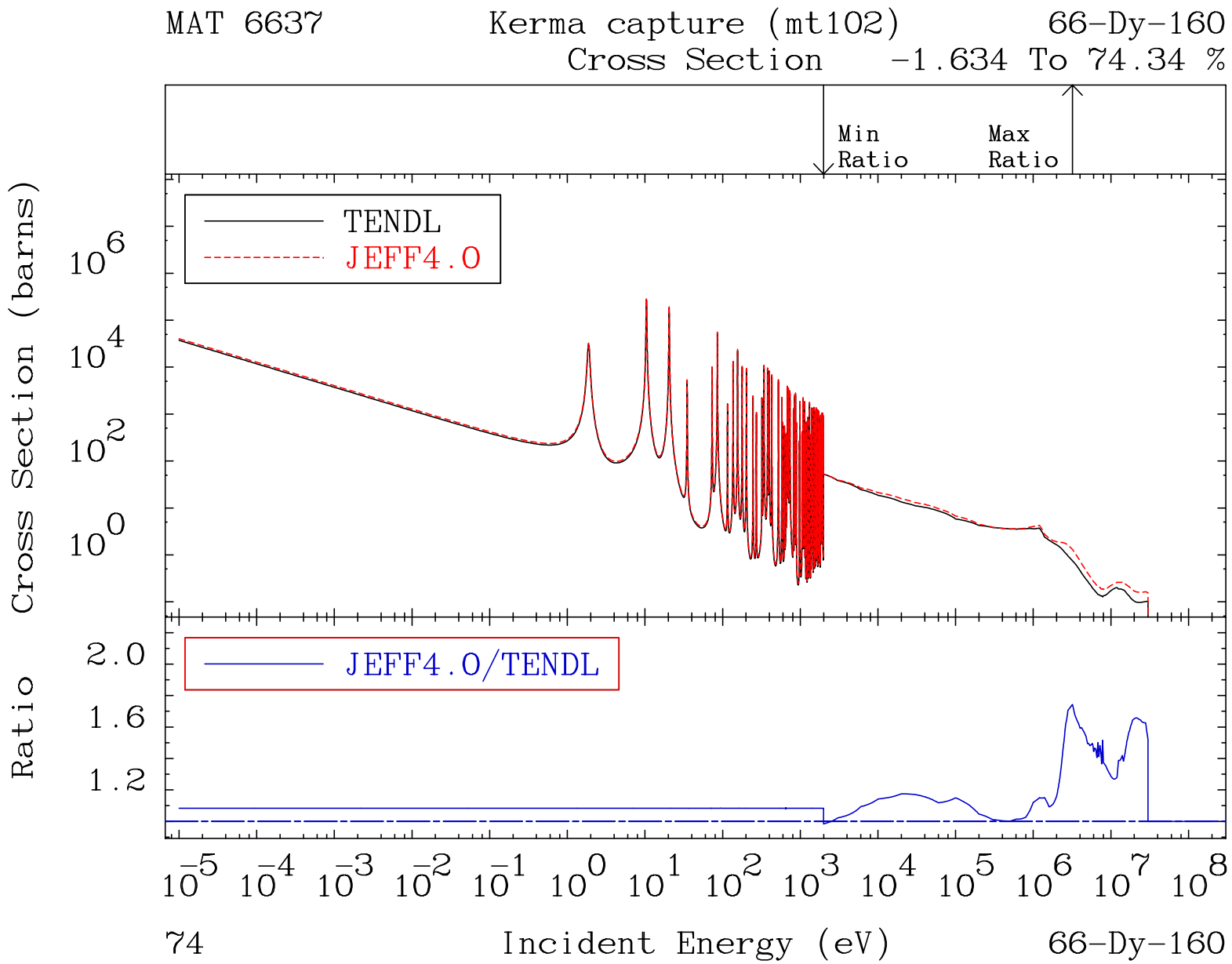

MAT 6637
Kerma total (eV-barns)
66-Dy-160
Cross Section -125.5 To 25.96 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Ratio Cross Section (Mega-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
69
Incident Energy (eV)
66-Dy-160

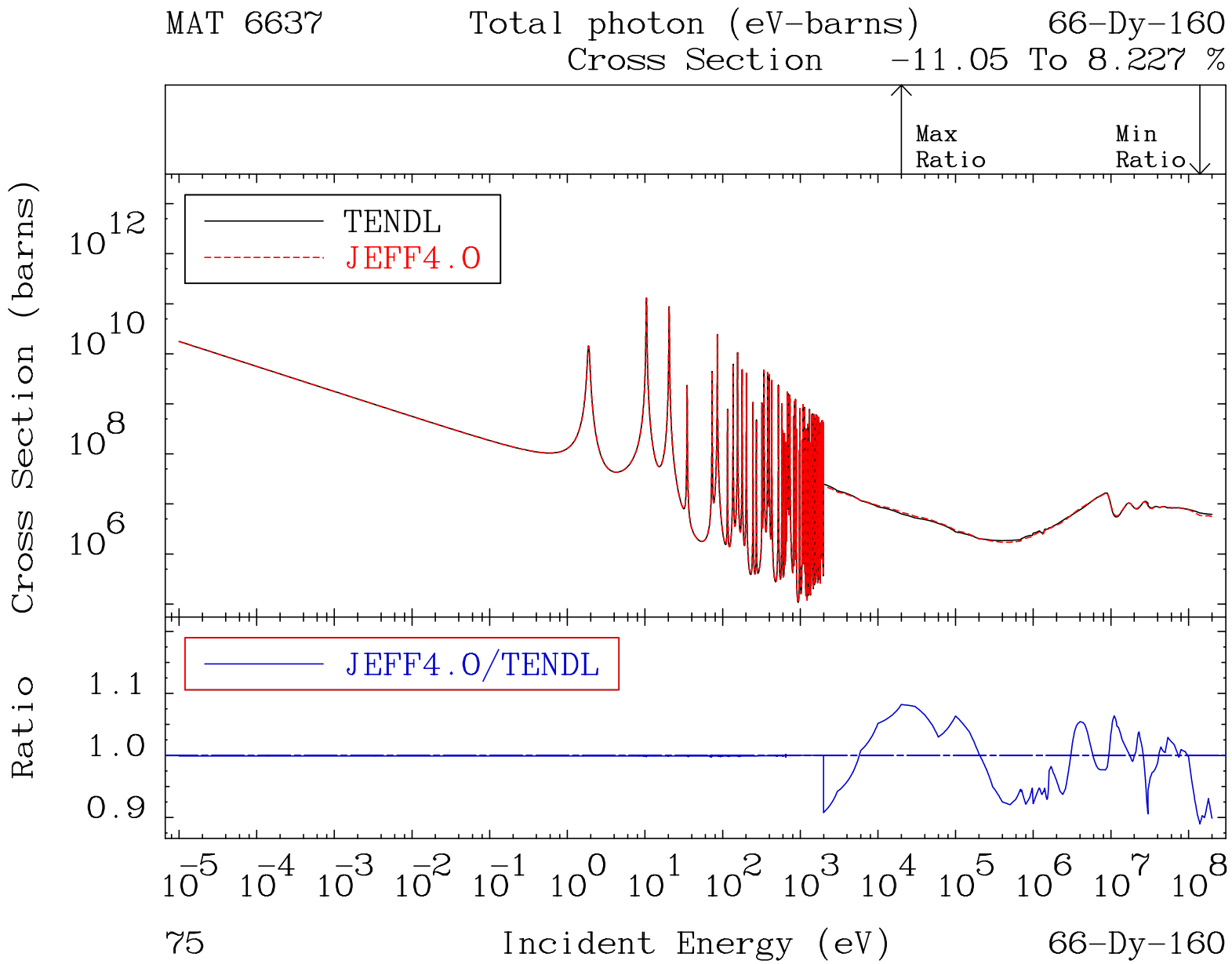

MAT 6637
Kerma elastic
Cross Section
66-Dy-160
-54.89 To 0.290 %
Max
Ratio
Min
Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
70
66-Dy-160

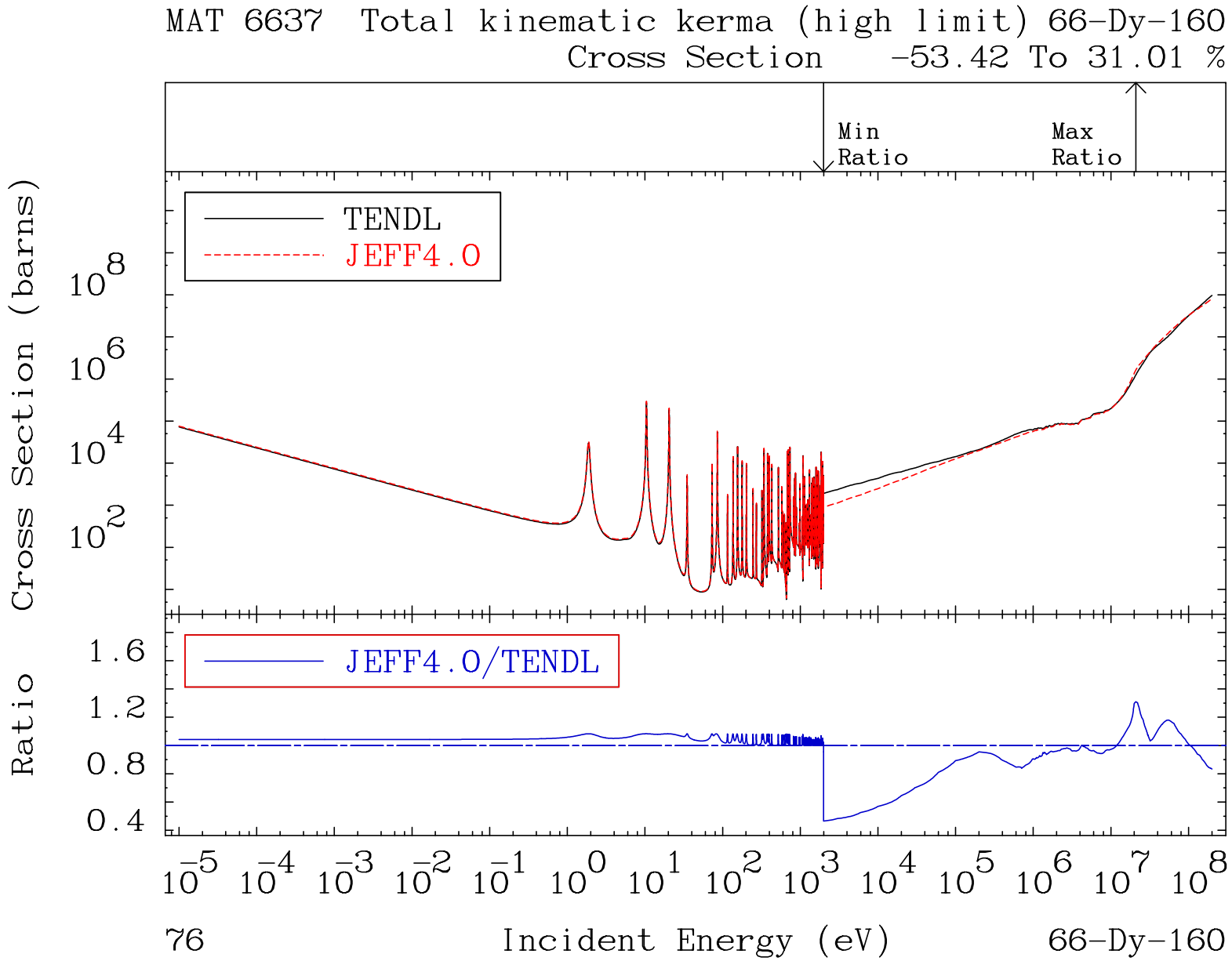

MAT 6637 Kerma non-elastic (all but mt2) 66-Dy-160
Cross Section -125.5 To 26.99 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Ratio Cross Section (Mega-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
71
Incident Energy (eV)
66-Dy-160

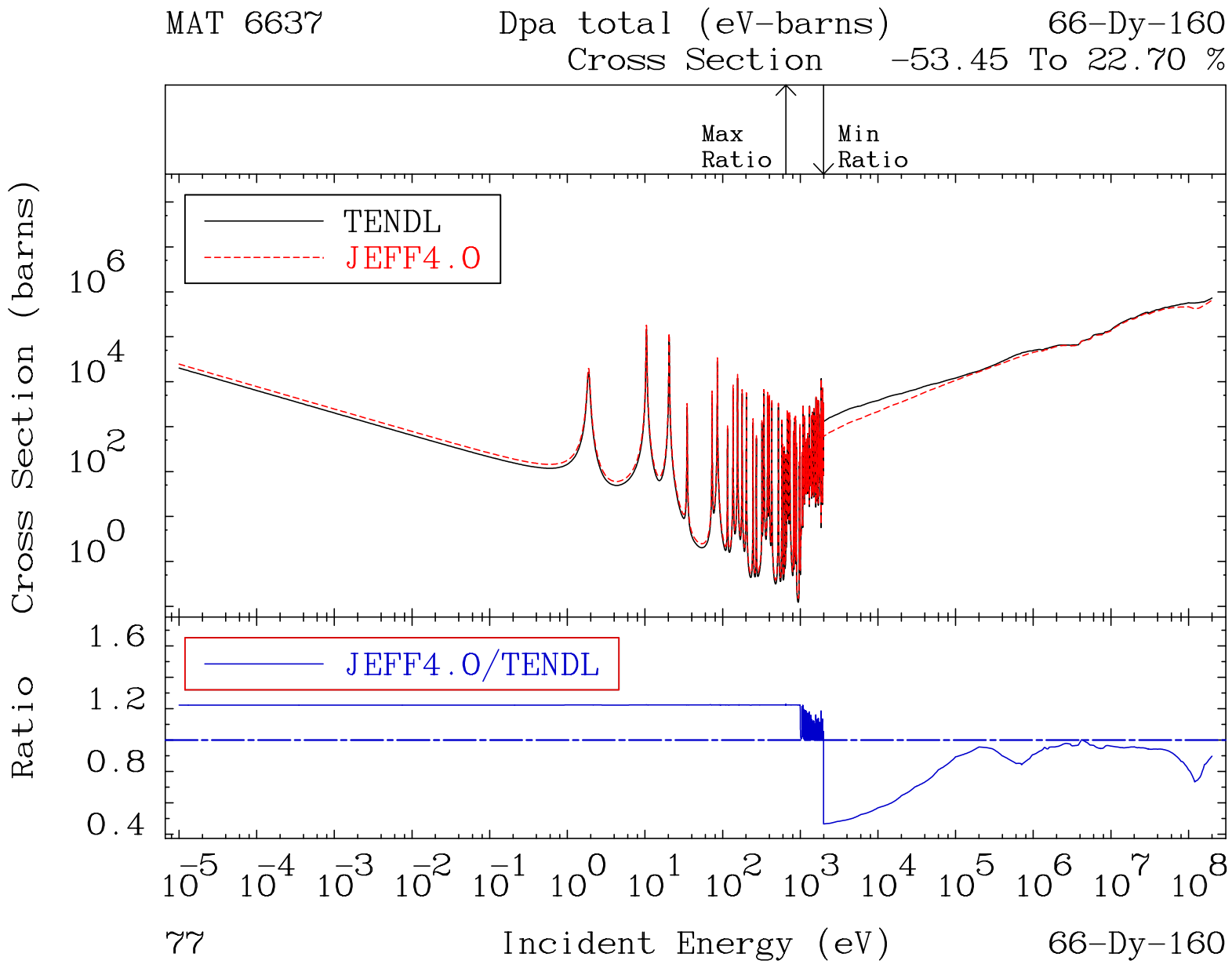

MAT 6637
Kerma inelastic (mt51-91)
66-Dy-160
Cross Section -100.0 To 41.72 %
Min Ratio
Max Ratio
TENDL Threshold 87.336 keV
JEFF4.0 Threshold 87.336 keV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
66-Dy-160

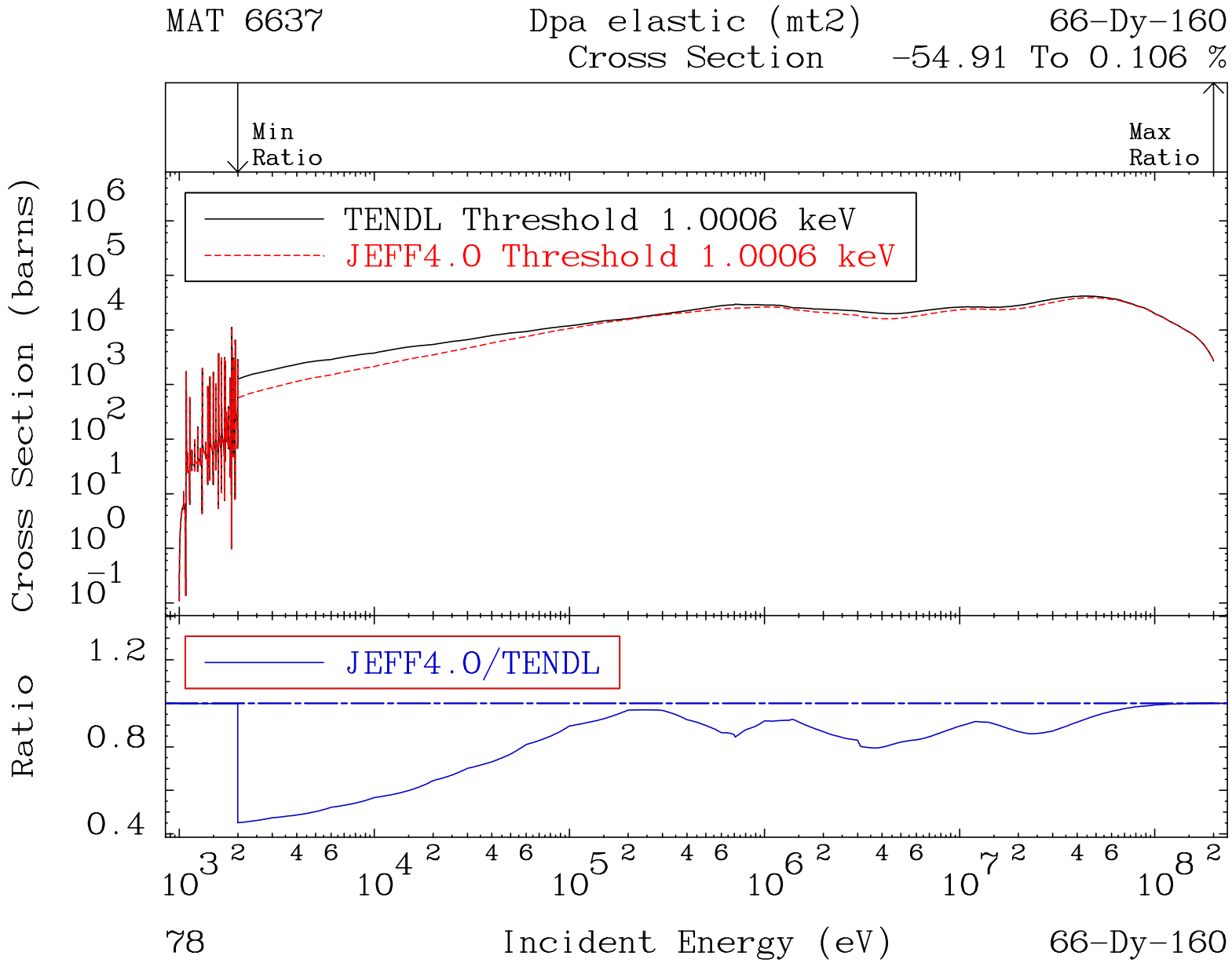

MAT 6637 Kerma fission (mt18 or mt19-20-21-38) 66-Dy-160
Cross Section -100.0 To 41.72 %
Min
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-3}
10^{-6}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
73
Incident Energy (eV)
66-Dy-160

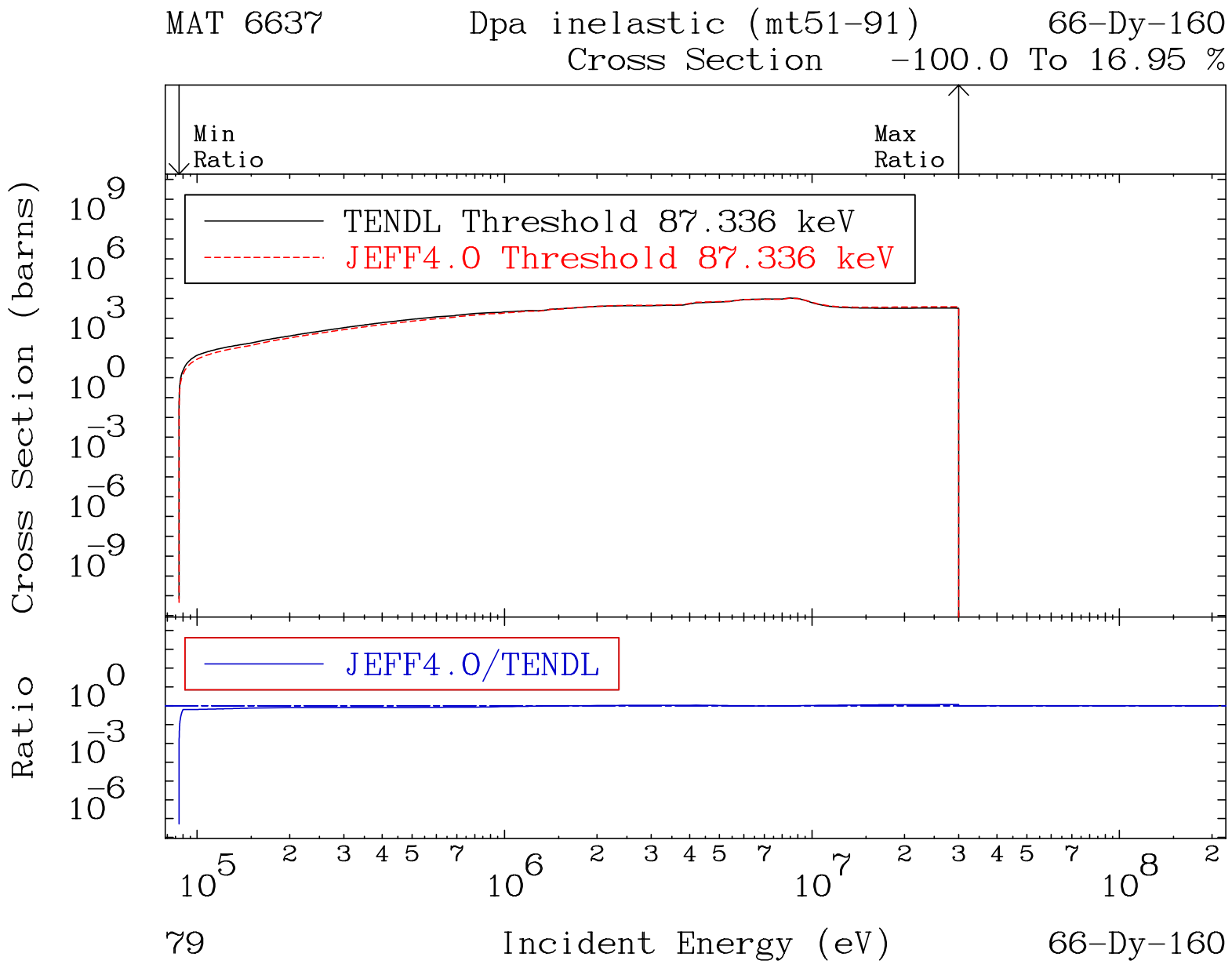

MAT 6637
Kerma capture (mt102)
66-Dy-160
Cross Section -1.634 To 74.34 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
74
66-Dy-160

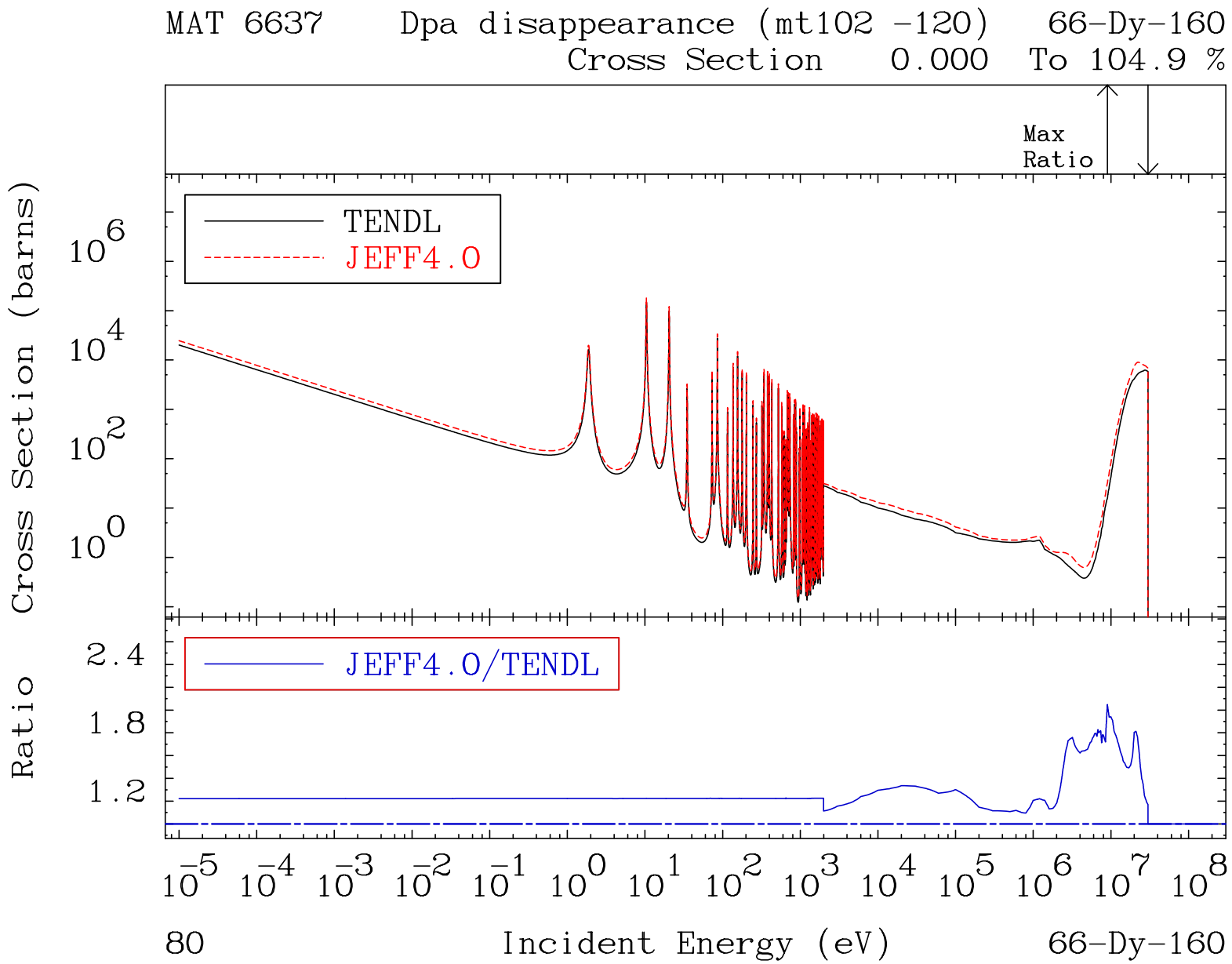

MAT 6637
Total photon (eV-barns)
66-Dy-160
Cross Section
-11.05 To 8.227 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
66-Dy-160

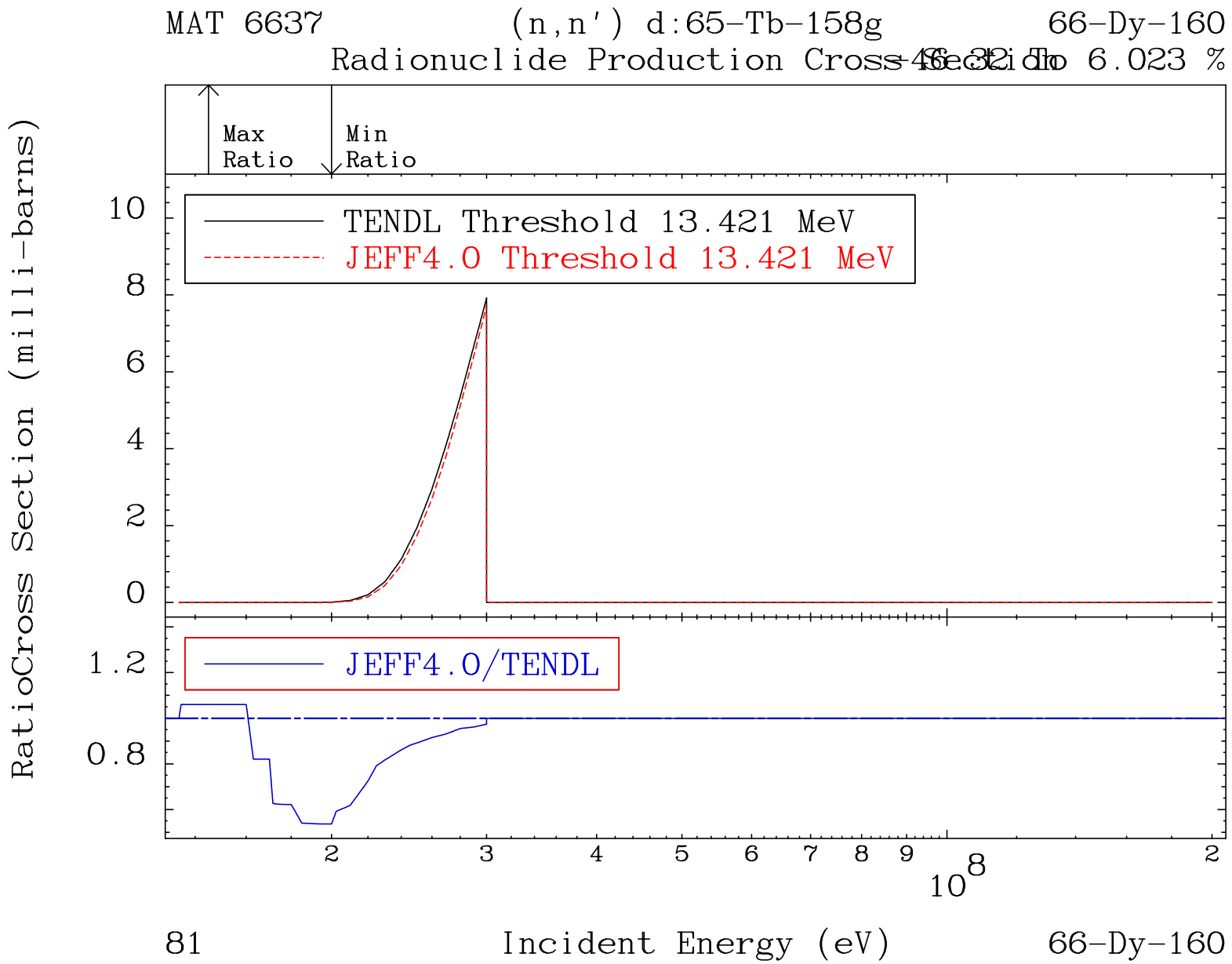

MAT 6637 Total kinematic kerma (high limit) 66-Dy-160
Cross Section -53.42 To 31.01 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
76
66-Dy-160

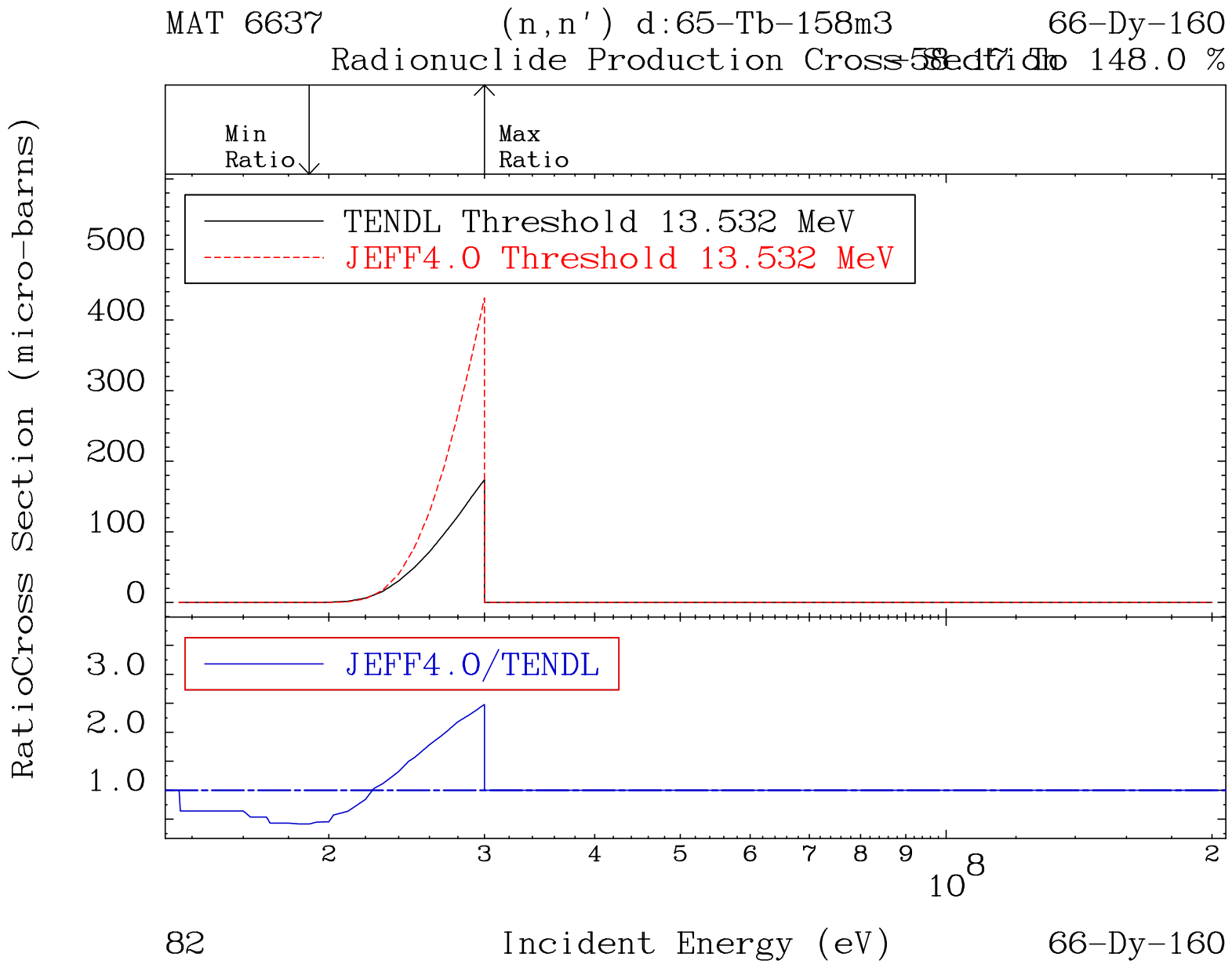

MAT 6637
Dpa total (eV-barns)
66-Dy-160
Cross Section
-53.45 To 22.70 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
66-Dy-160

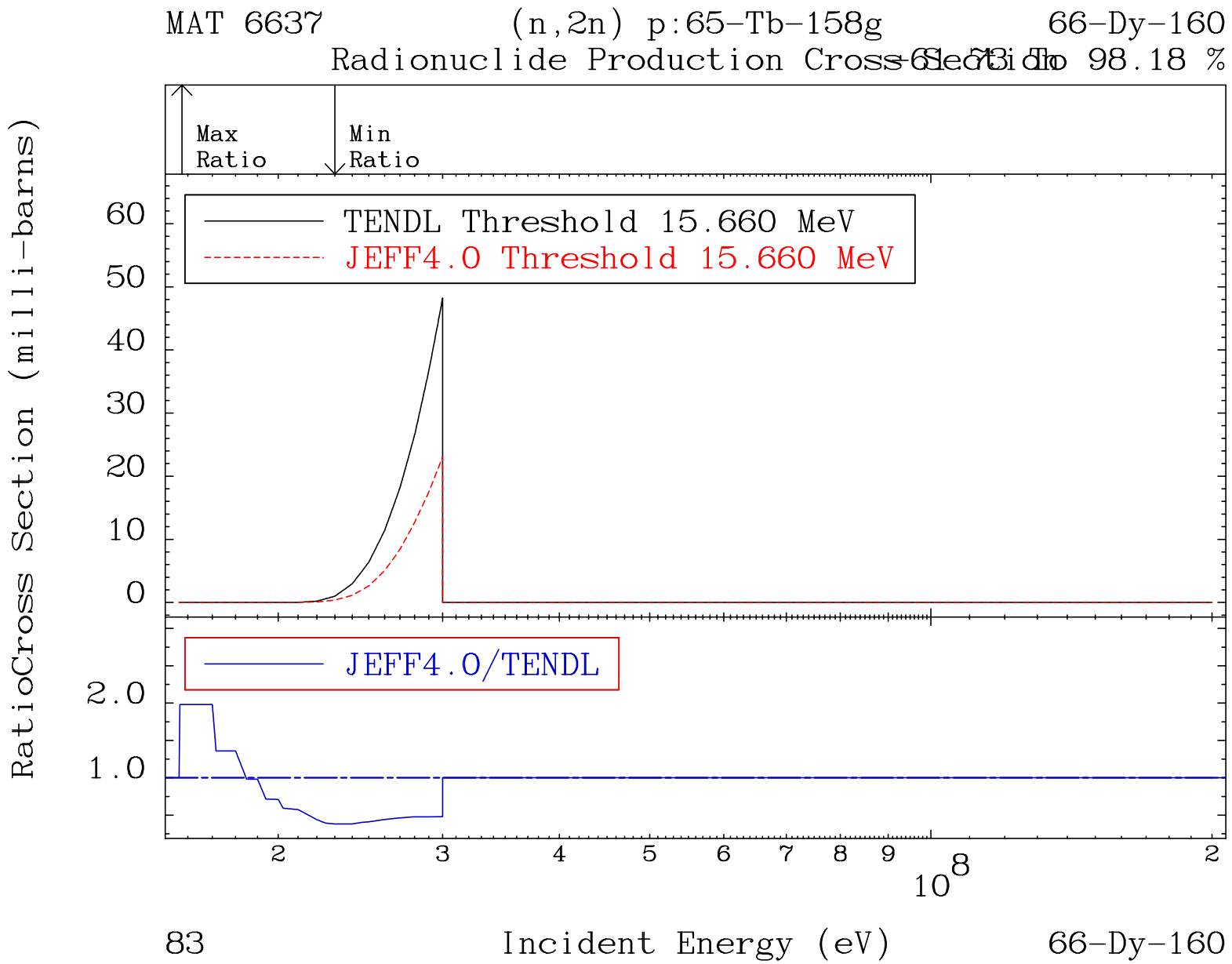

MAT 6637
Dpa elastic (mt2)
Cross Section
66-Dy-160
-54.91 To 0.106 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0006 keV
JEFF4.0 Threshold 1.0006 keV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
78
66-Dy-160

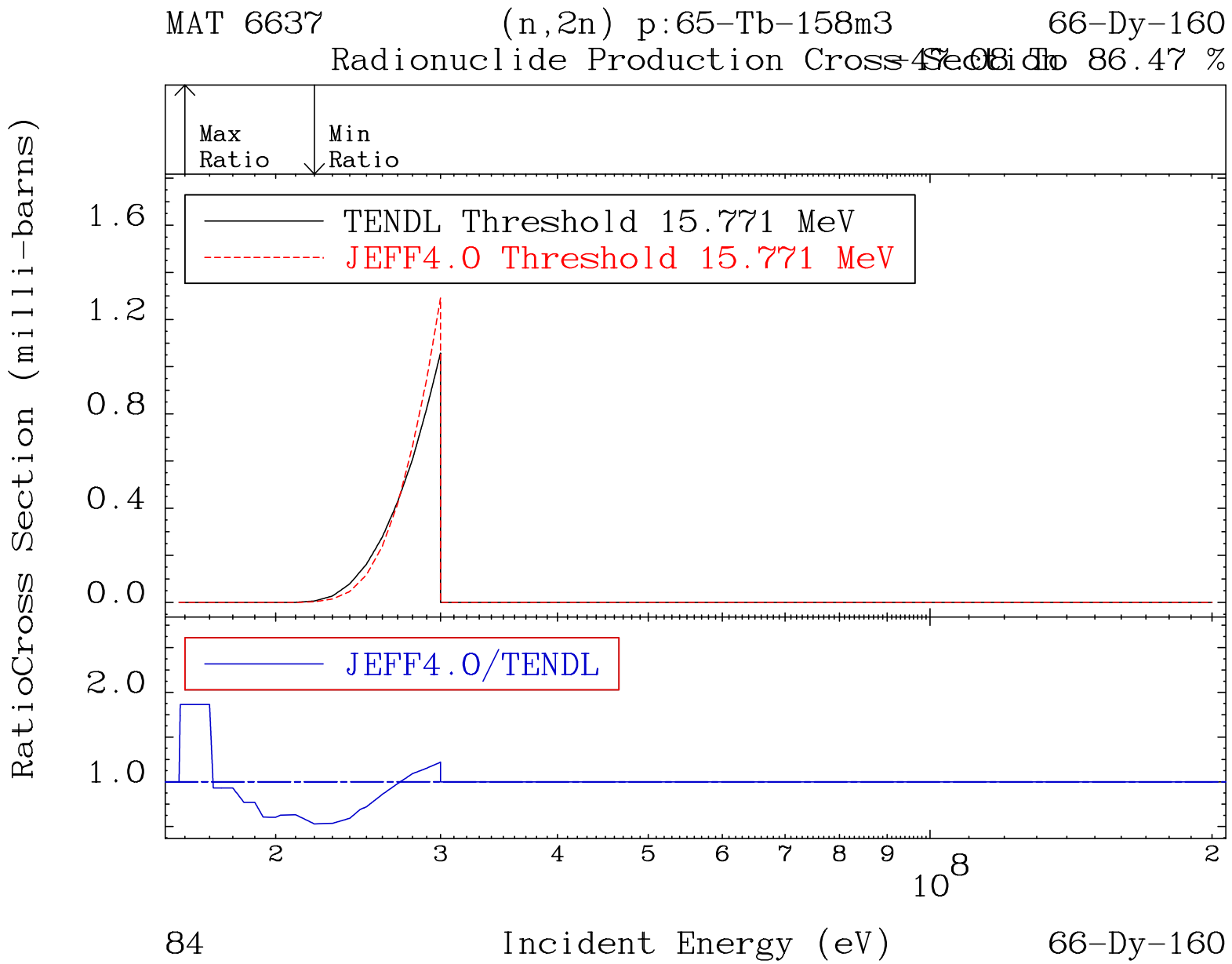

MAT 6637
Dpa inelastic (mt51-91)
66-Dy-160
Cross Section
-100.0 To 16.95 %
Min Ratio
Max Ratio
TENDL Threshold 87.336 keV
JEFF4.0 Threshold 87.336 keV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
79
66-Dy-160

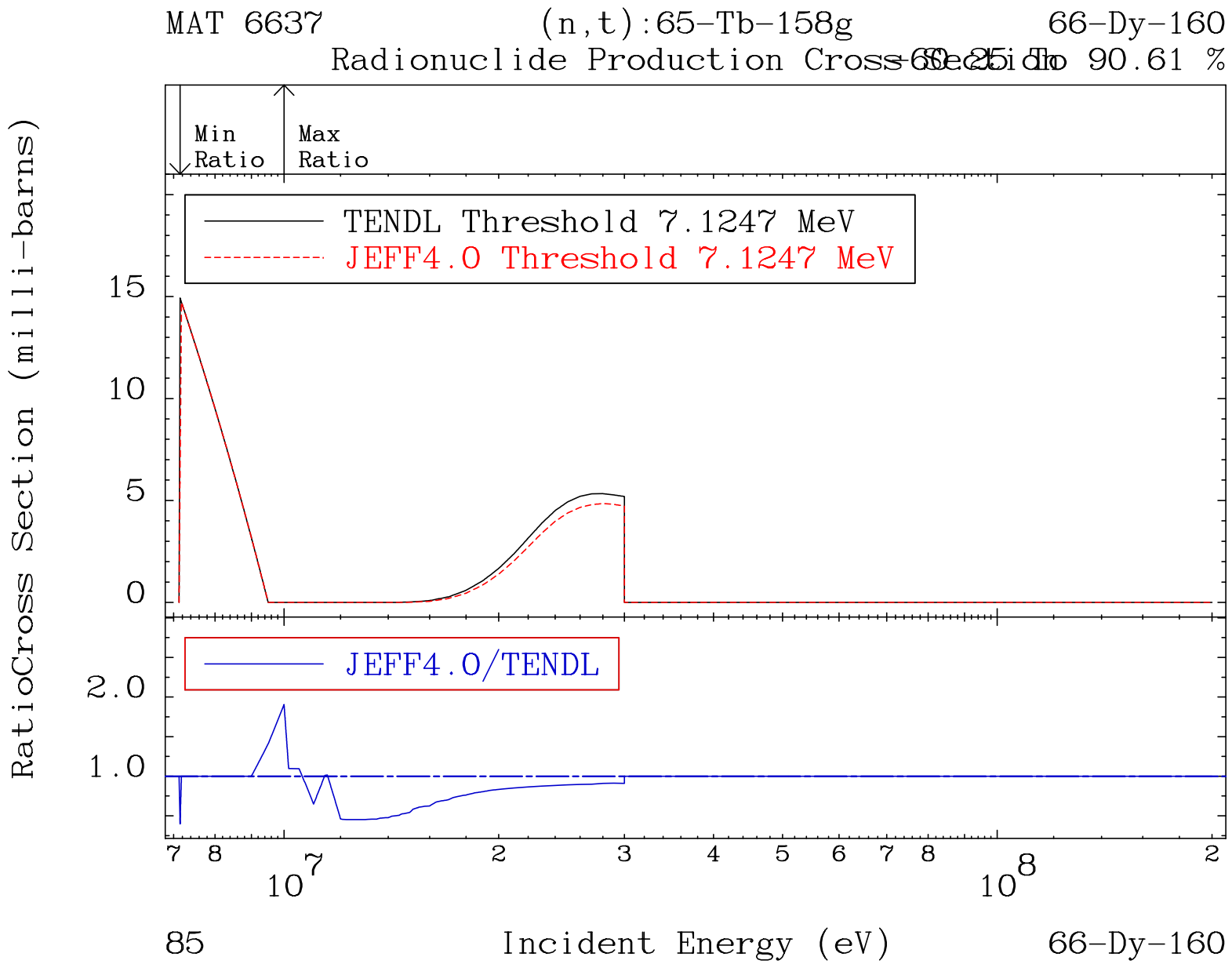

MAT 6637 Dpa disappearance (mt102 -120) 66-Dy-160
Cross Section 0.000 To 104.9 %
Max
Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
80
66-Dy-160

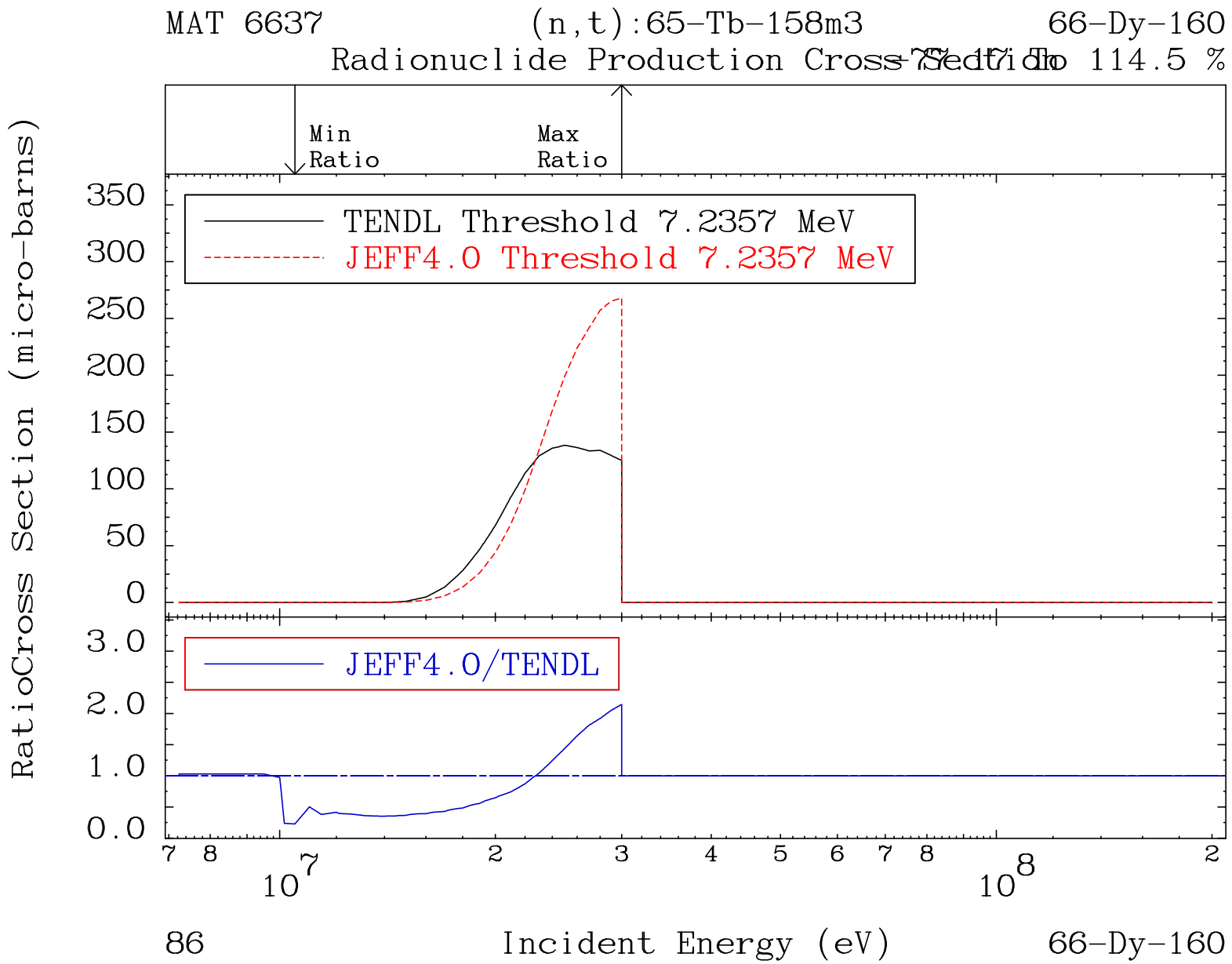

MAT 6637
(n,n') d:65-Tb-158g
66-Dy-160
Radionuclide Production Cross Section To 6.023 %
Max Ratio
Min Ratio
TENDL Threshold 13.421 MeV
JEFF4.0 Threshold 13.421 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
66-Dy-160


MAT 6637
(n,n') d:65-Tb-158m3
66-Dy-160
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 13.532 MeV
JEFF4.0 Threshold 13.532 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
66-Dy-160


MAT 6637
(n,2n) p:65-Tb-158g
66-Dy-160
Radionuclide Production Cross Section To 98.18 %
Max Ratio
Min Ratio
TENDL Threshold 15.660 MeV
JEFF4.0 Threshold 15.660 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
66-Dy-160


MAT 6637
(n,2n) p:65-Tb-158m3
66-Dy-160
Radionuclide Production Cross Section To 86.47 %
Max Ratio
Min Ratio
TENDL Threshold 15.771 MeV
JEFF4.0 Threshold 15.771 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
84
Incident Energy (eV)
66-Dy-160


MAT 6637
(n,t):65-Tb-158g
66-Dy-160
Radionuclide Production Cross Section To 90.61 %
Min Ratio
Max Ratio
TENDL Threshold 7.1247 MeV
JEFF4.0 Threshold 7.1247 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
2.0
1.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
85
Incident Energy (eV)
66-Dy-160


MAT 6637
(n,t):65-Tb-158m3
66-Dy-160
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.2357 MeV
JEFF4.0 Threshold 7.2357 MeV
JEFF4.0/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
86
66-Dy-160