Program Complot
(Version 2018-1)
by
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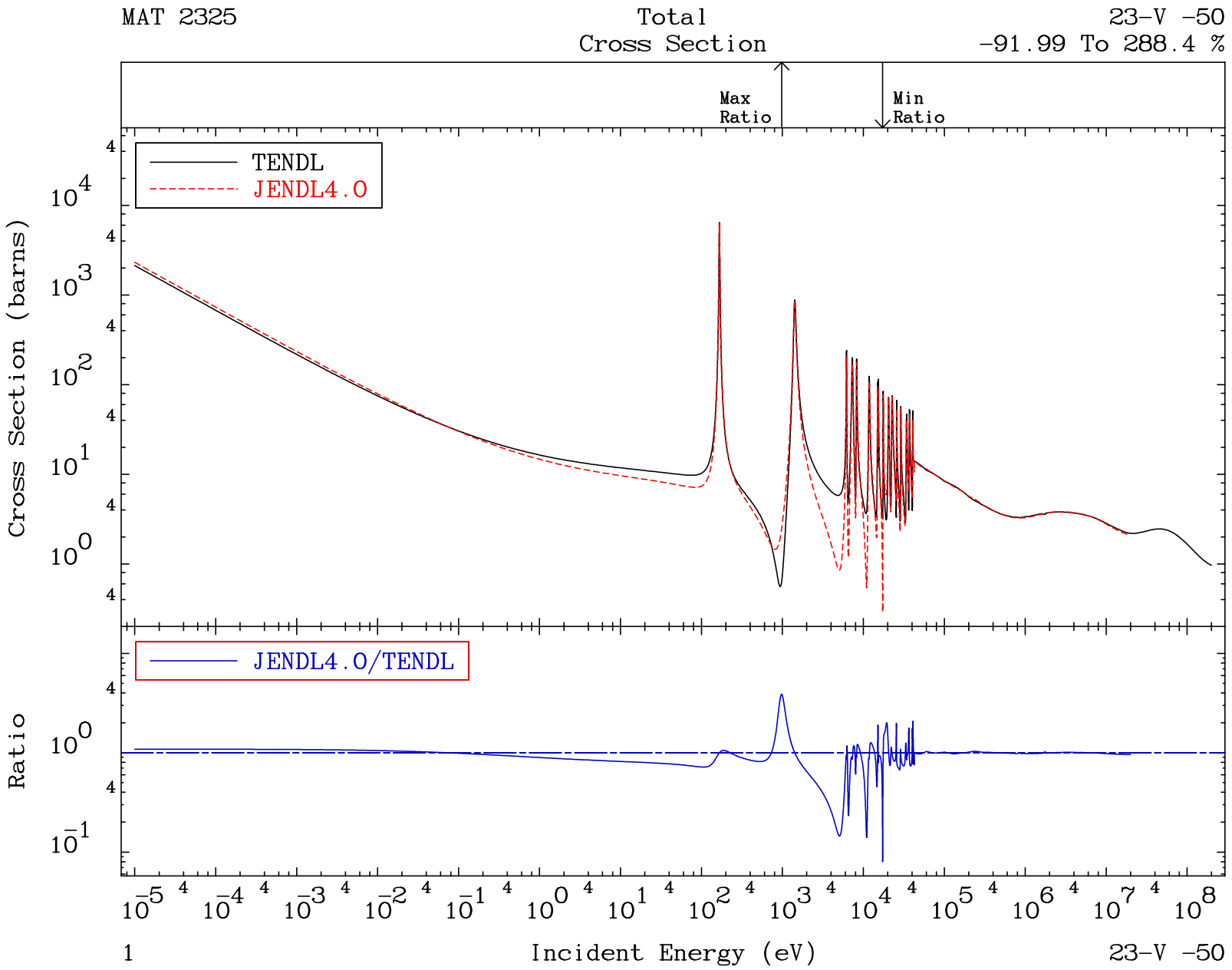
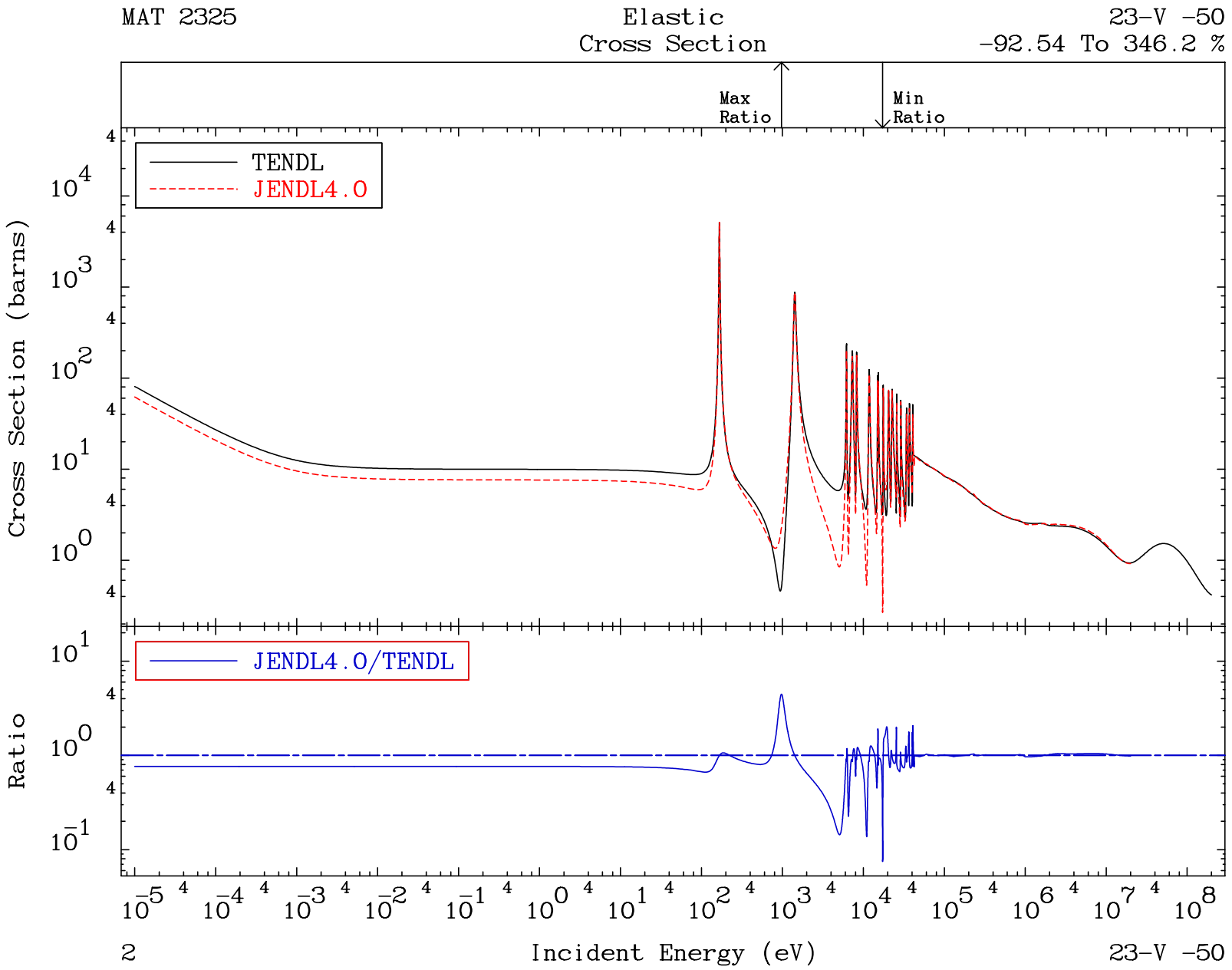
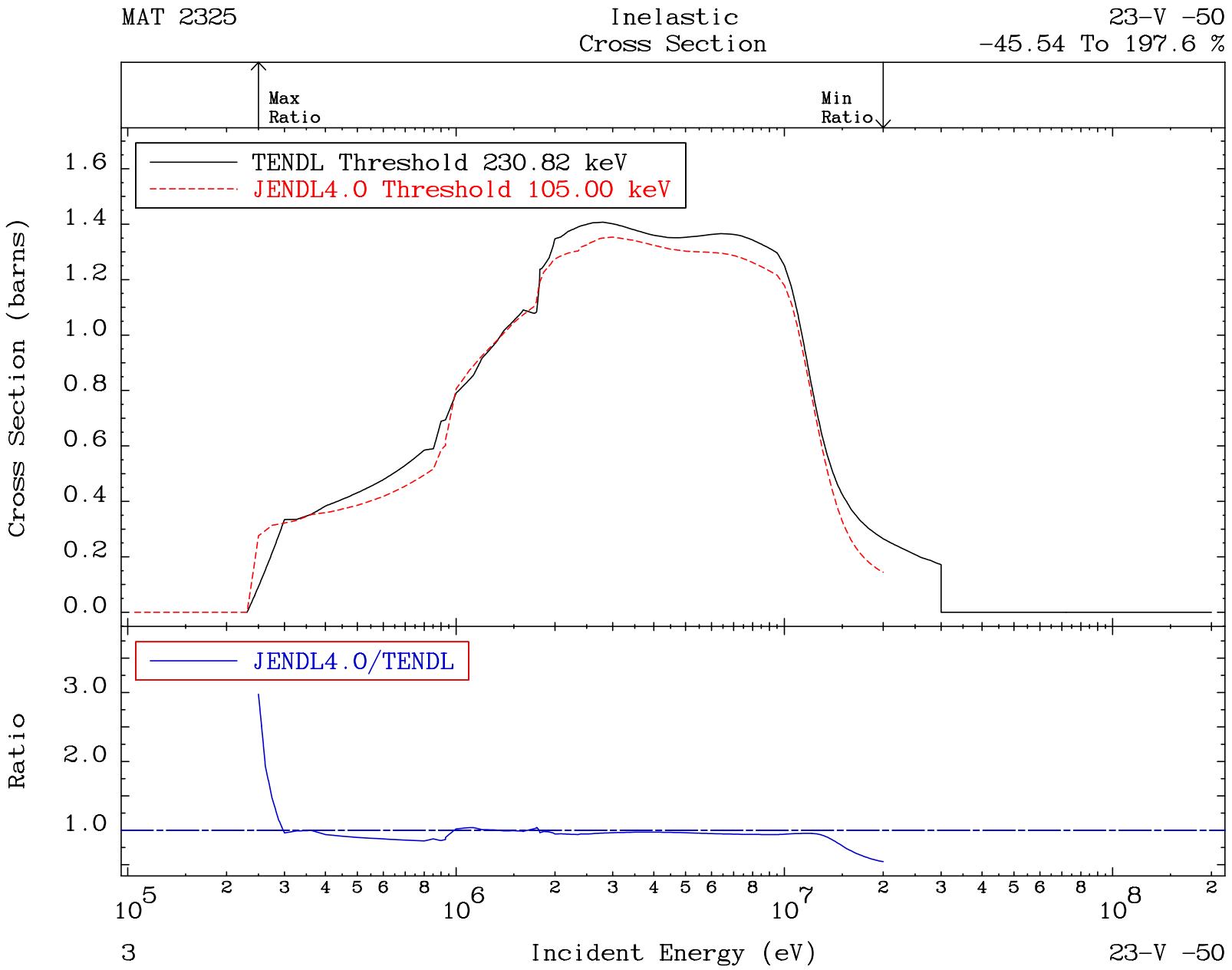
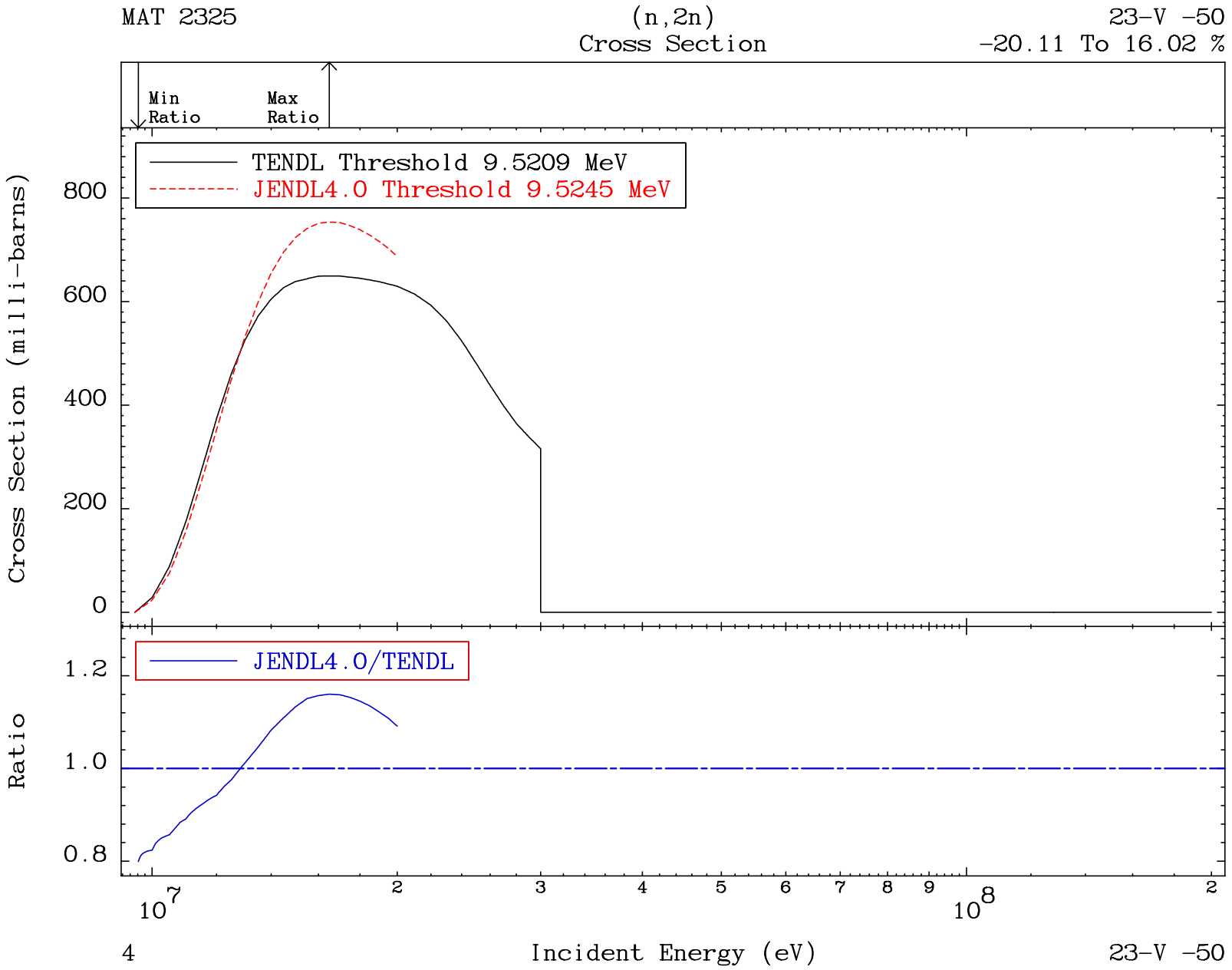
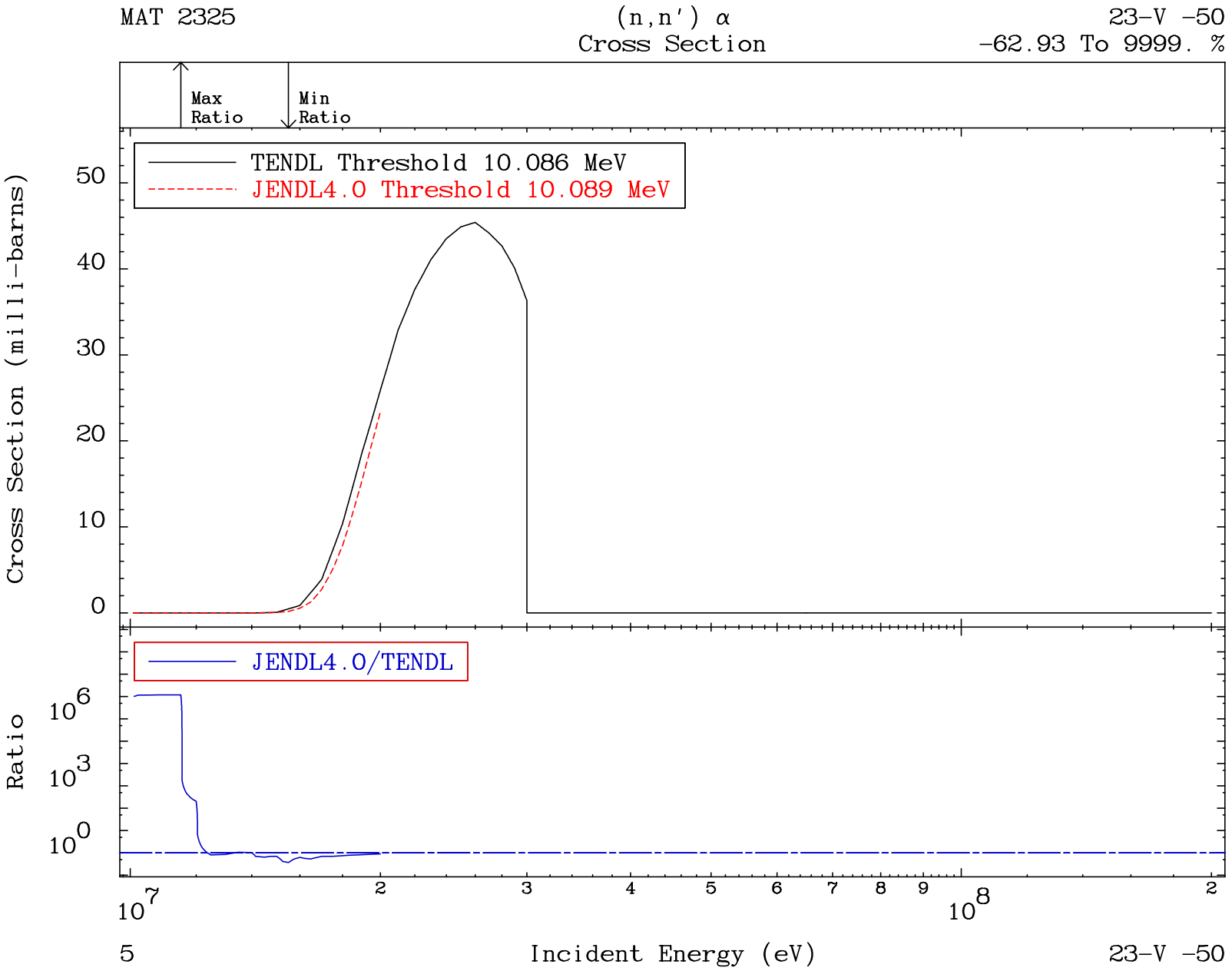
Press Mouse Button to Start

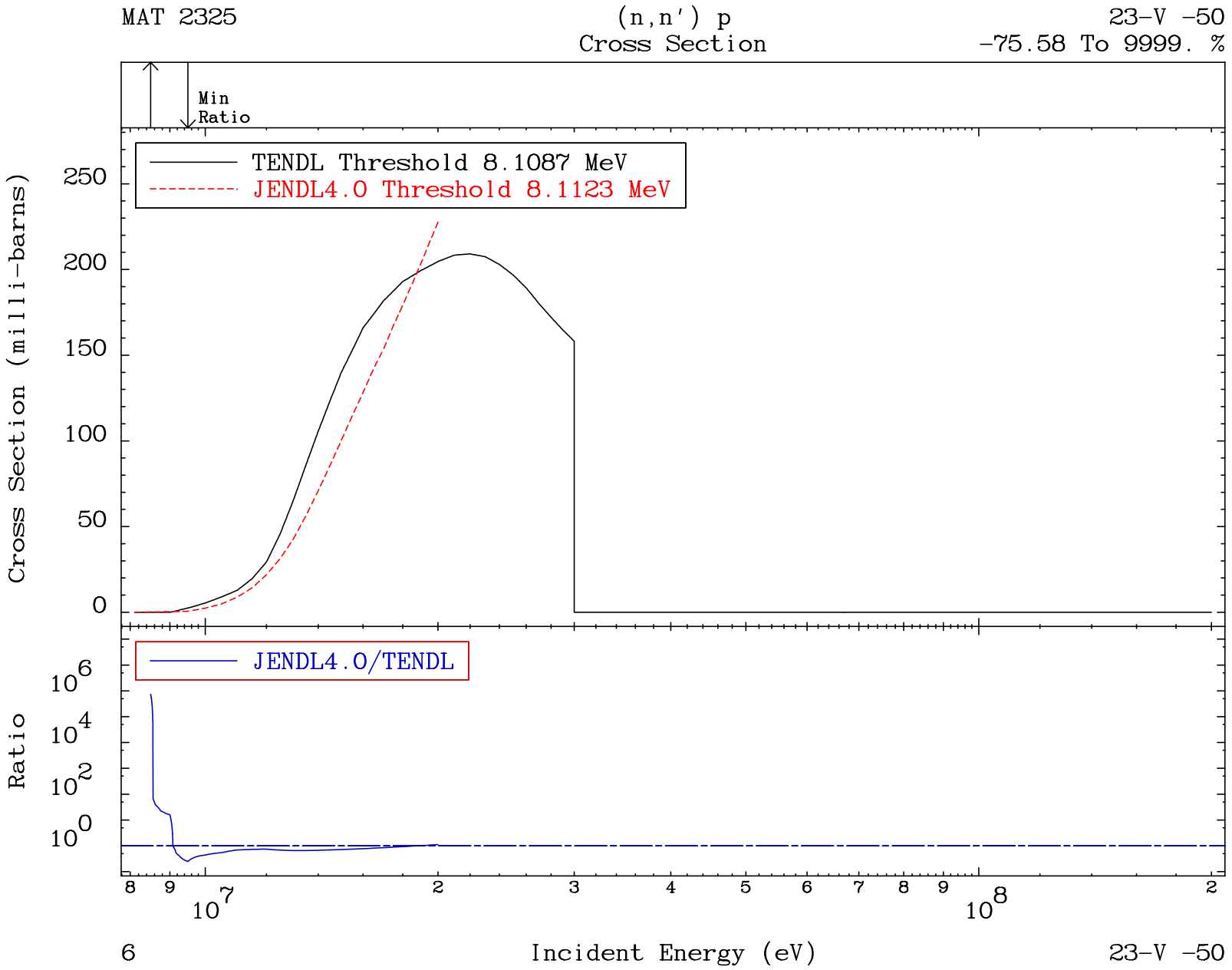

MAT 2325
Total
Cross Section
23-V -50
-91.99 To 288.4 %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
23-V -50

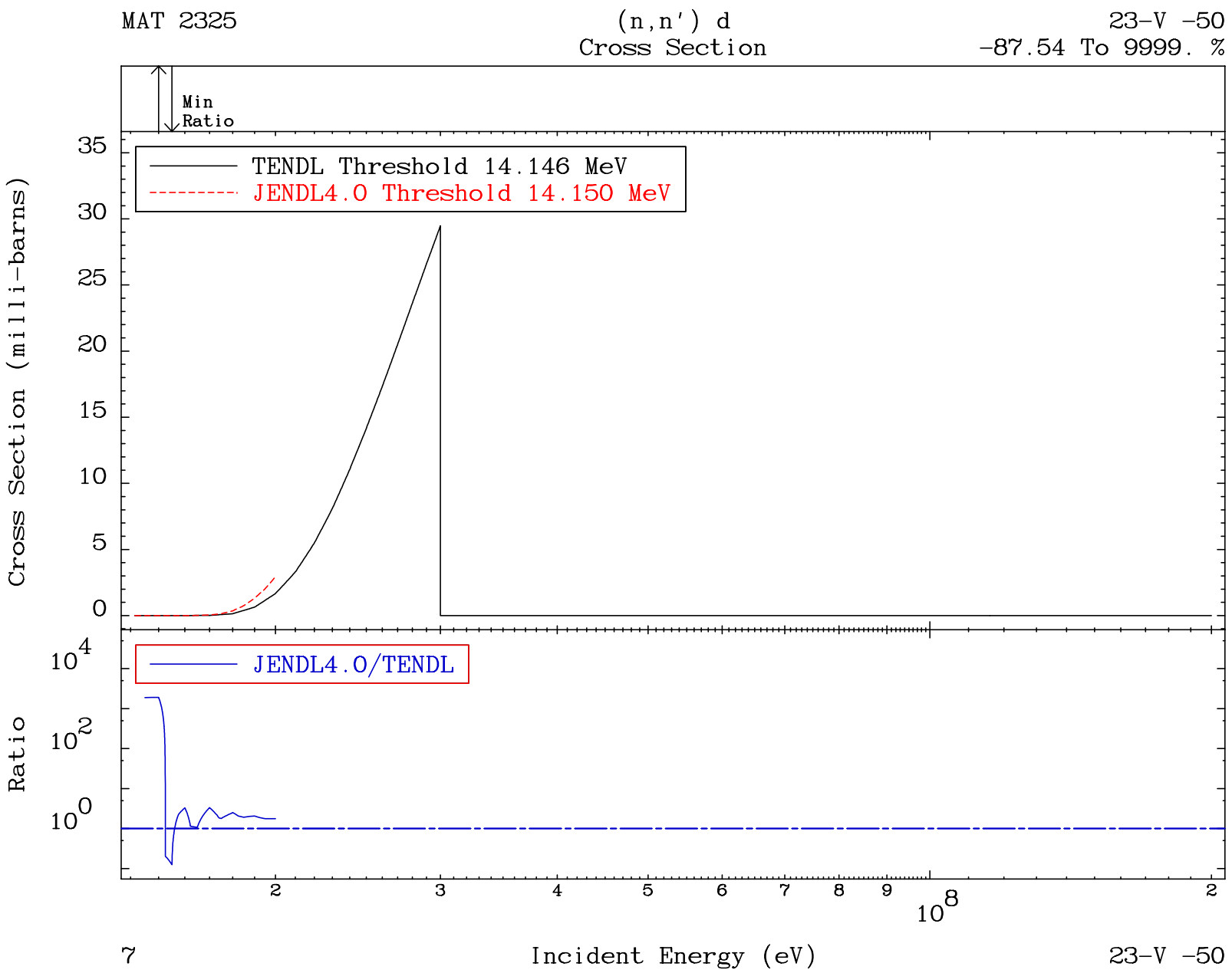

MAT 2325
Elastic
Cross Section
23-V -50
-92.54 To 346.2 %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
23-V -50

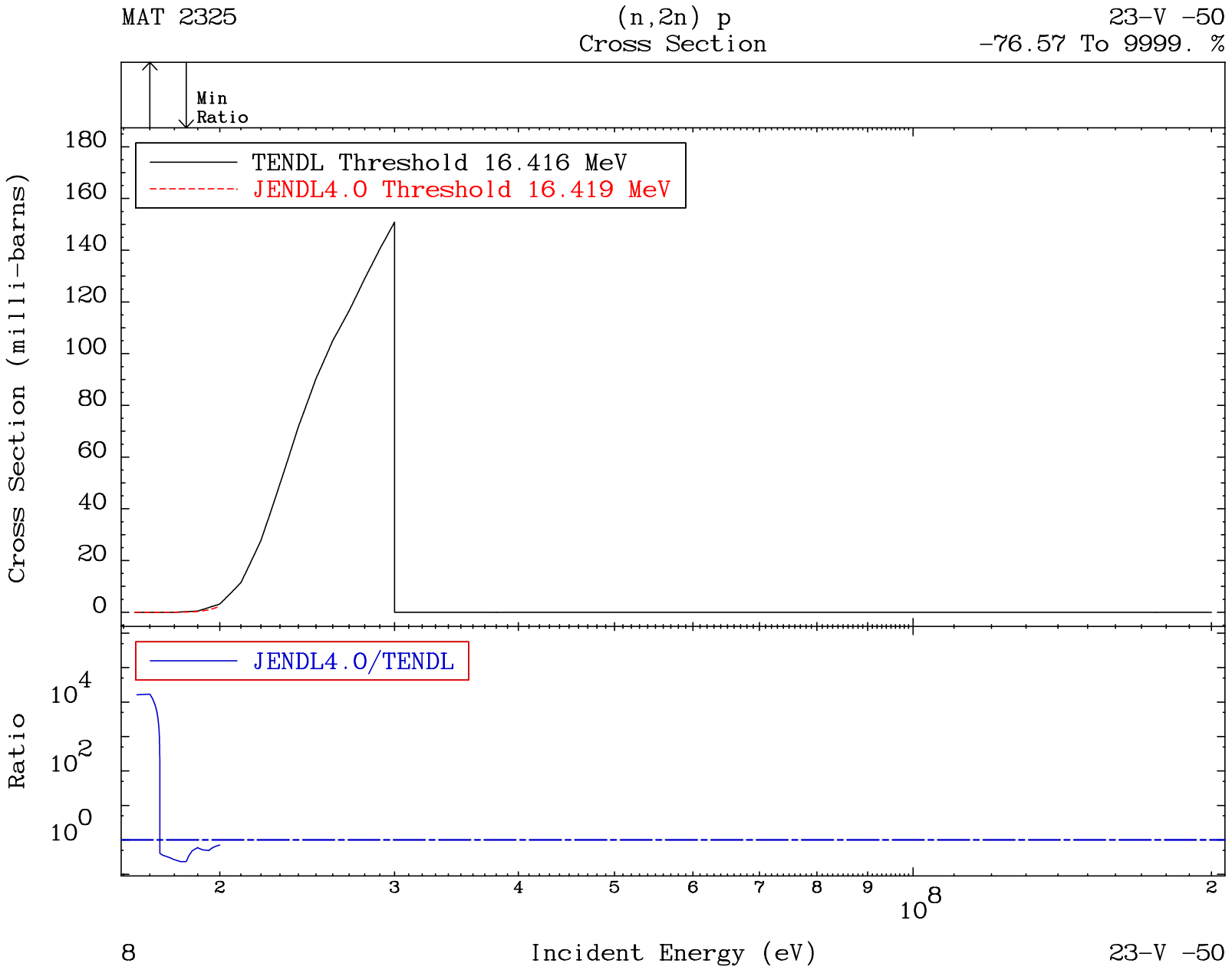

MAT 2325
Inelastic
Cross Section
23-V -50
-45.54 To 197.6 %
Max
Ratio
Min
Ratio
TENDL Threshold 230.82 keV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
10^5
10^6
10^7
10^8
Incident Energy (eV)
3
23-V -50

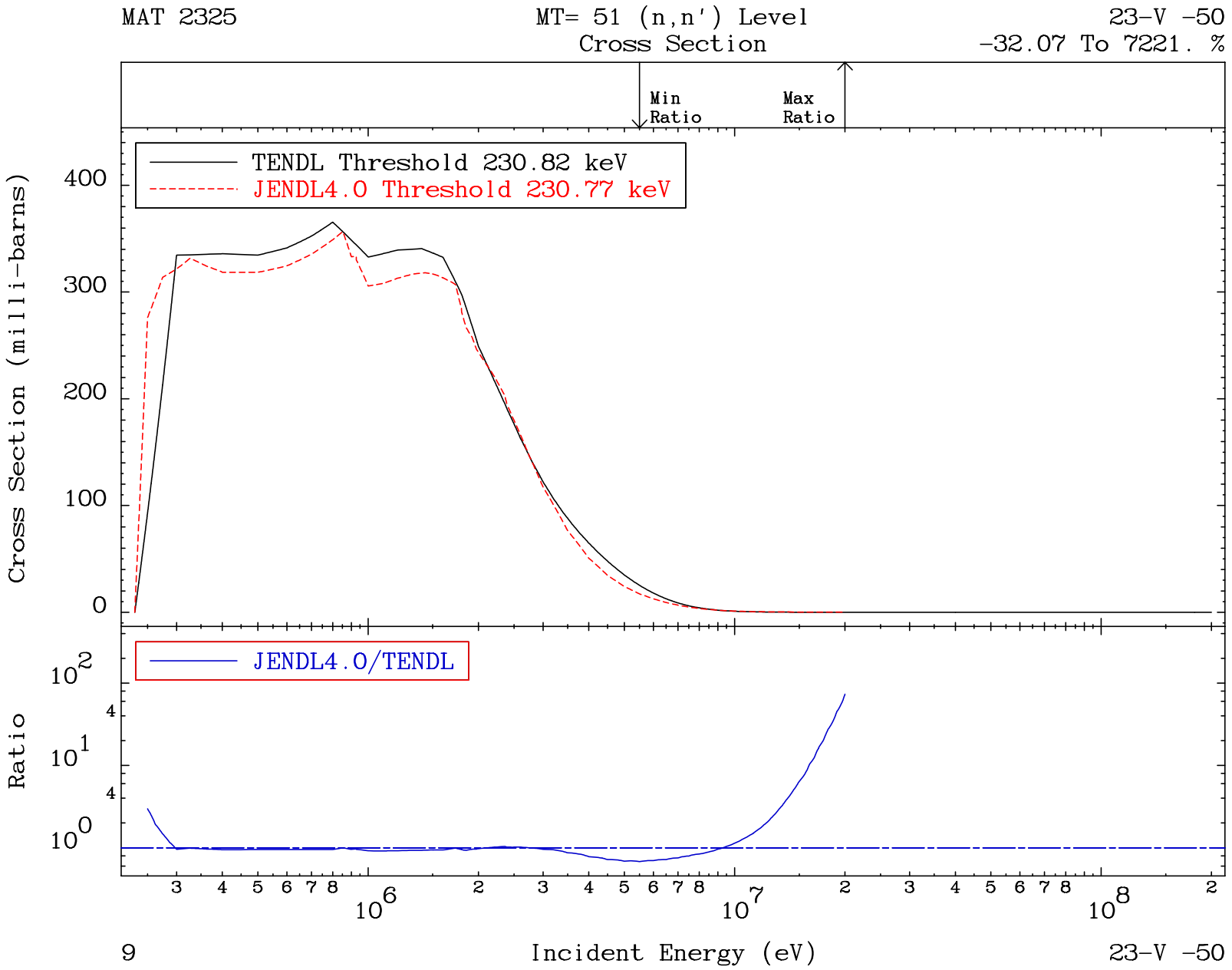

MAT 2325
(n,2n)
Cross Section
23-V -50
-20.11 To 16.02 %
Min Ratio
Max Ratio
TENDL Threshold 9.5209 MeV
JENDL4.0 Threshold 9.5245 MeV
Cross Section (milli-barns)
800
600
400
200
0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
23-V -50

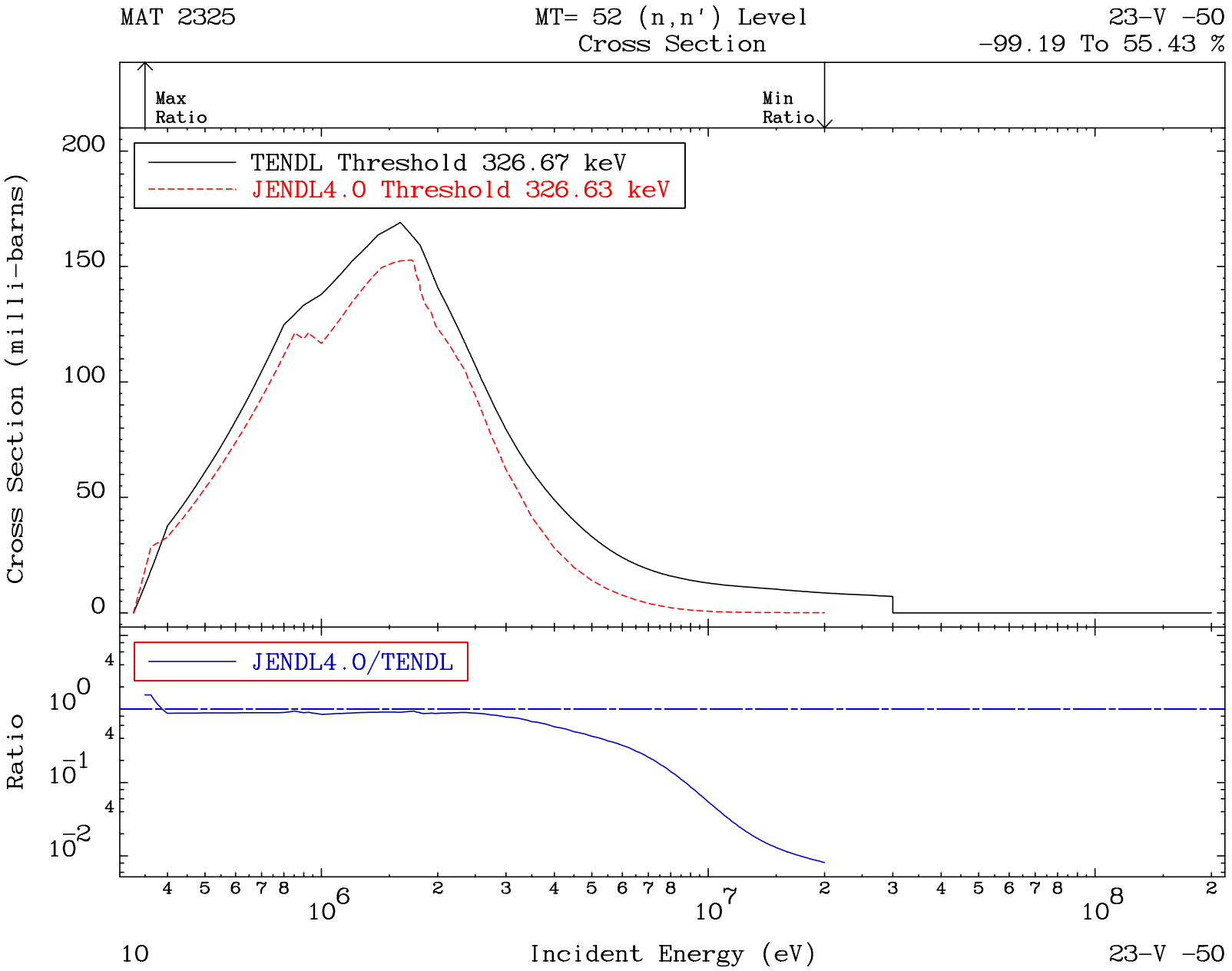

MAT 2325
(n,n') α
Cross Section
23-V -50
-62.93 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 10.086 MeV
JENDL4.0 Threshold 10.089 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
23-V -50

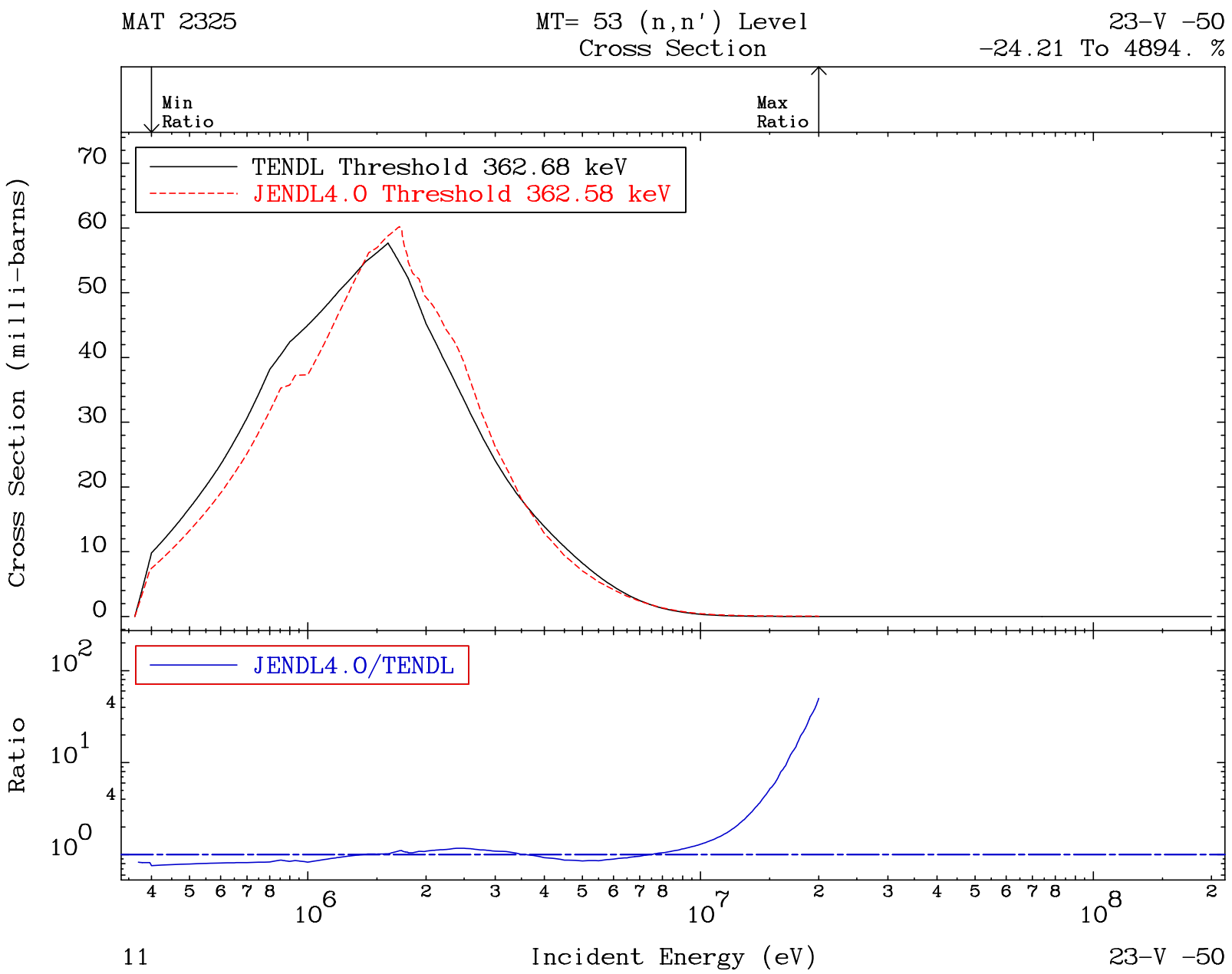

MAT 2325
(n,n') p
Cross Section
23-V -50
-75.58 To 9999. %
Min
Ratio
TENDL Threshold 8.1087 MeV
JENDL4.0 Threshold 8.1123 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
23-V -50

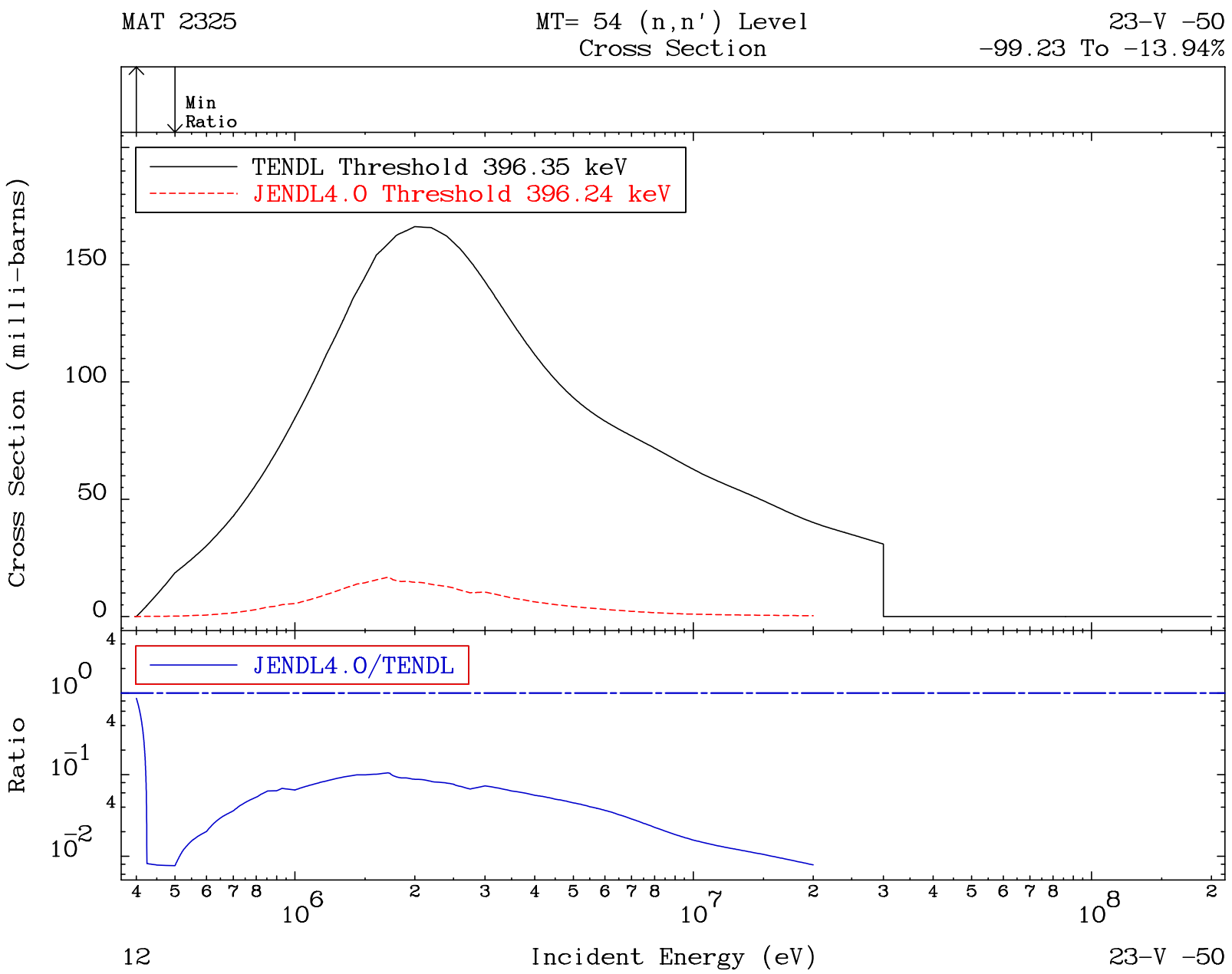

MAT 2325
(n,n') d
Cross Section
23-V -50
-87.54 To 9999. %
Min
Ratio
TENDL Threshold 14.146 MeV
JENDL4.0 Threshold 14.150 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
23-V -50

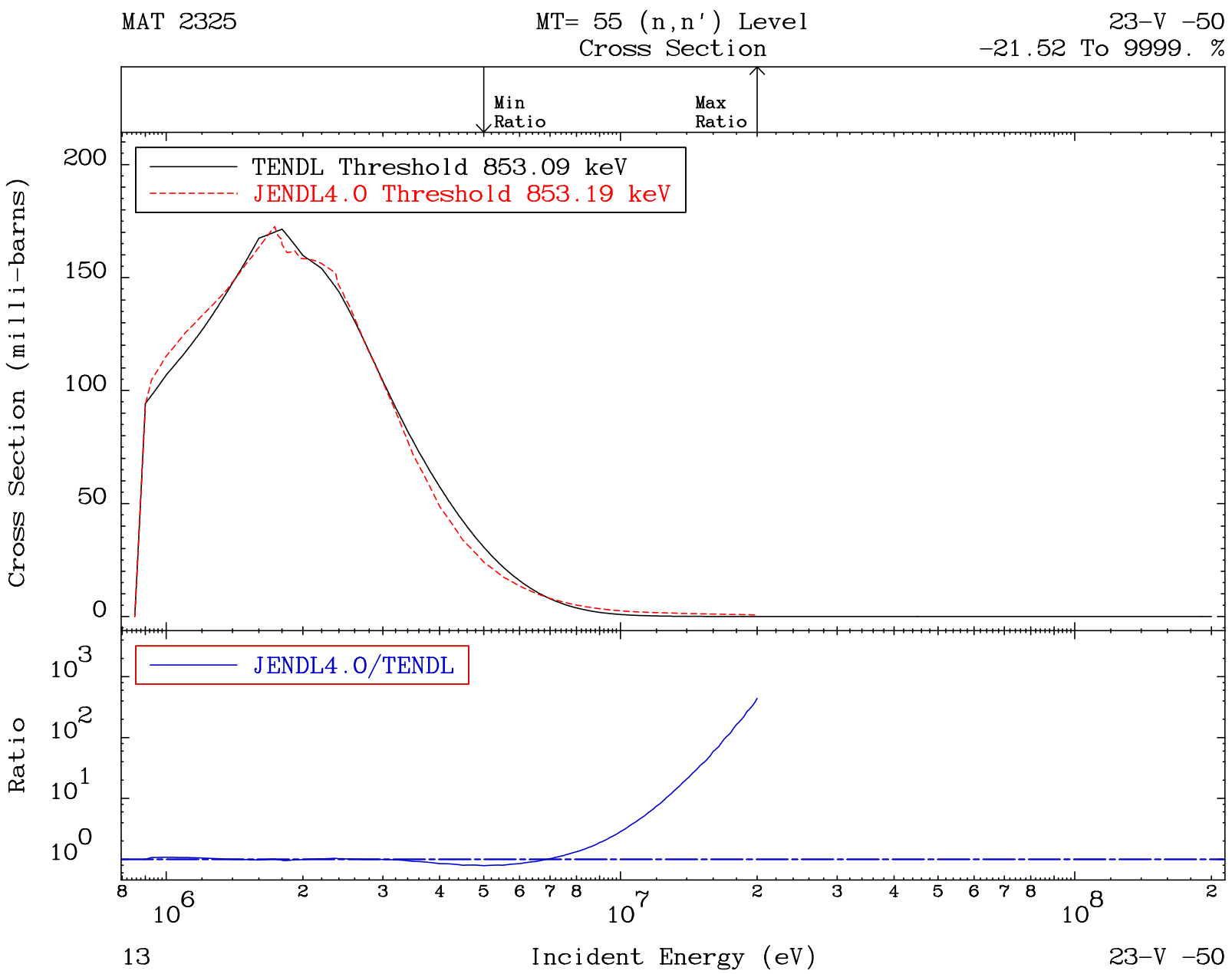

MAT 2325
(n,2n) p
Cross Section
23-V -50
-76.57 To 9999. %
Min
Ratio
TENDL Threshold 16.416 MeV
JENDL4.0 Threshold 16.419 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
23-V -50

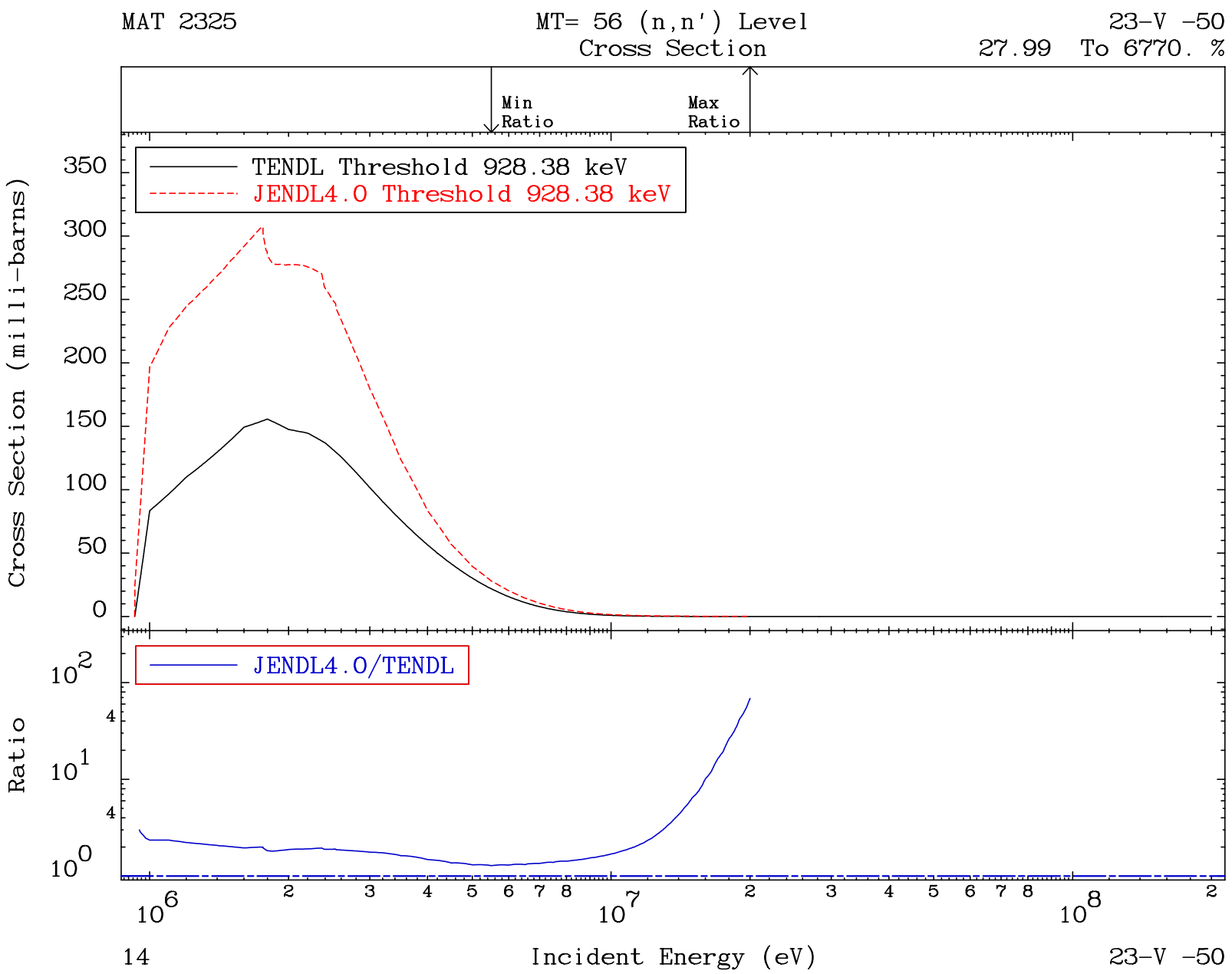

MAT 2325
MT= 51 (n,n') Level
Cross Section
23-V -50
-32.07 To 7221. %
Min Ratio
Max Ratio
TENDL Threshold 230.82 keV
JENDL4.0 Threshold 230.77 keV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
10^6
10^7
10^8
Incident Energy (eV)
9
23-V -50

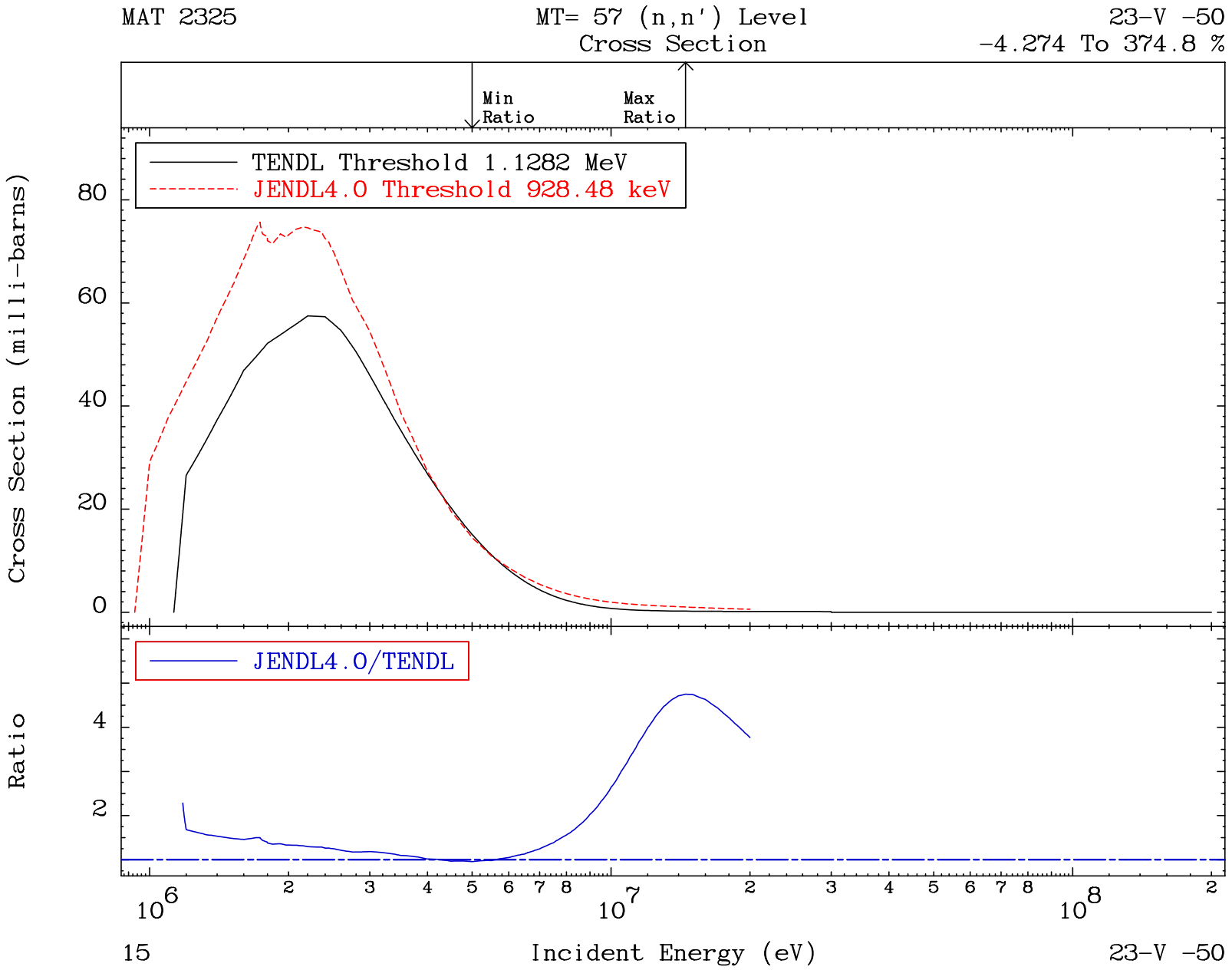

MAT 2325
MT= 52 (n,n') Level
Cross Section
23-V -50
-99.19 To 55.43 %
Max
Ratio
Min
Ratio
TENDL Threshold 326.67 keV
JENDL4.0 Threshold 326.63 keV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
4
10^6
10^7
10^8
Incident Energy (eV)
10
23-V -50

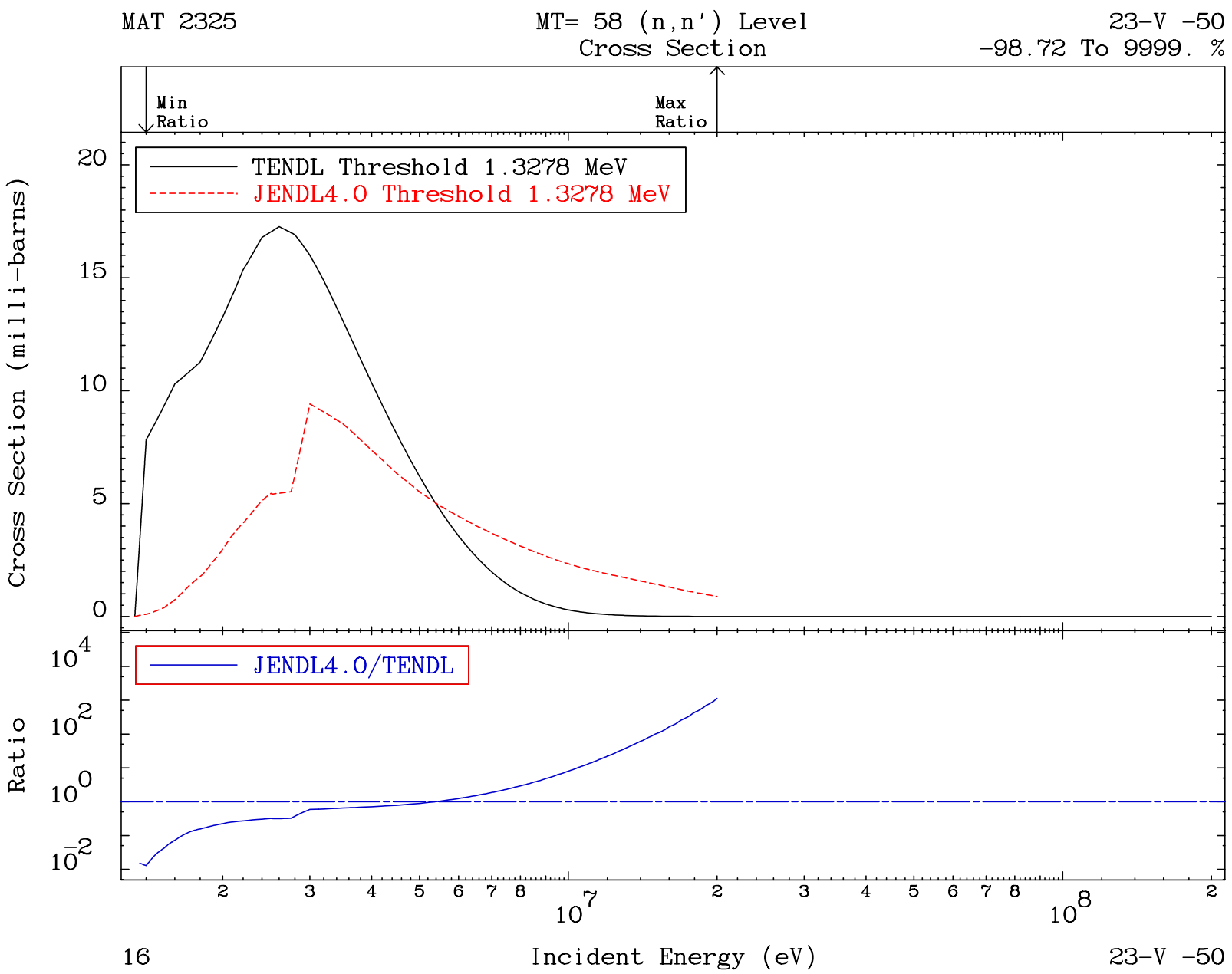

MAT 2325
MT= 53 (n,n') Level
Cross Section
23-V -50
-24.21 To 4894. %
Min
Ratio
Max
Ratio
TENDL Threshold 362.68 keV
JENDL4.0 Threshold 362.58 keV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
11
23-V -50

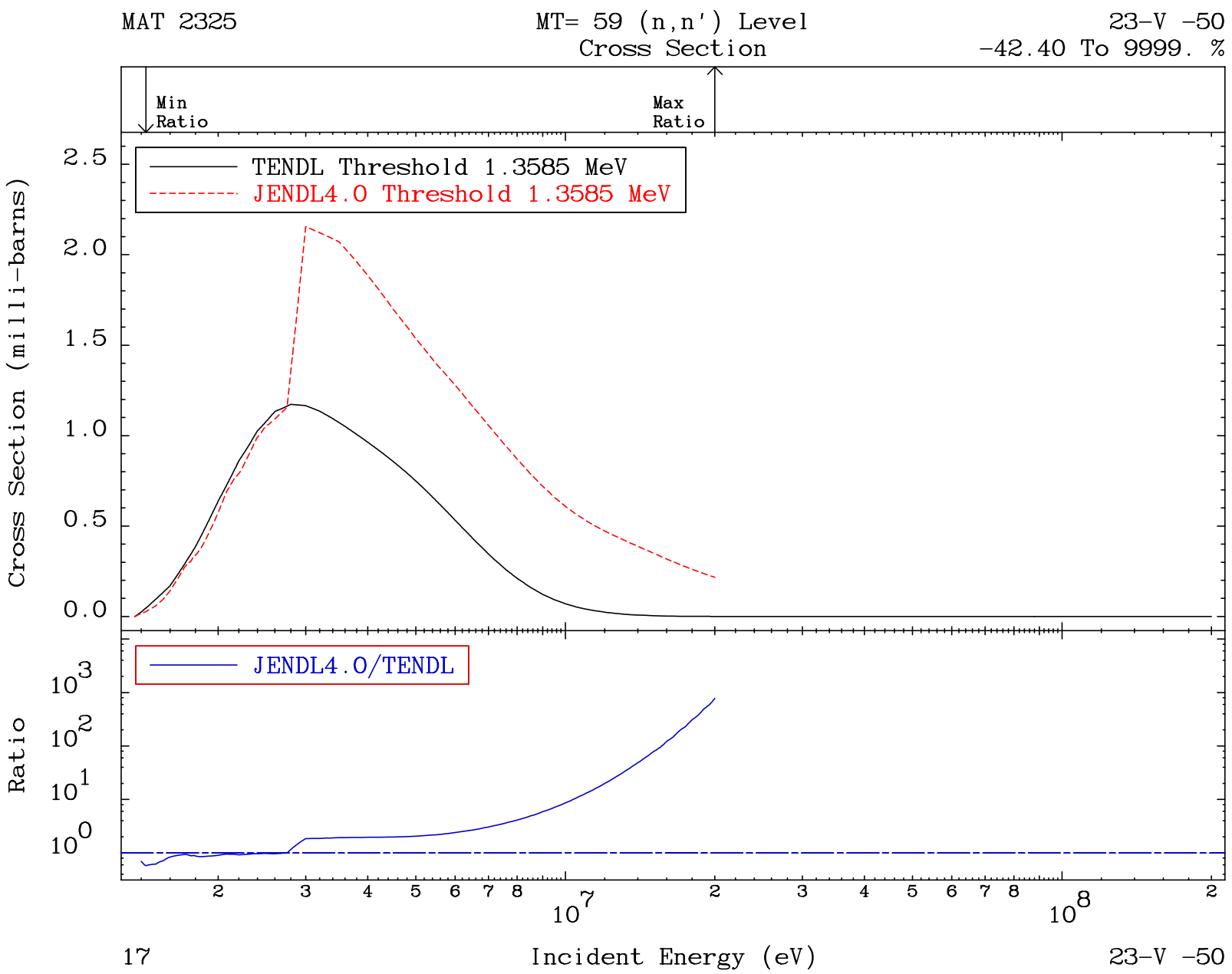

MAT 2325
MT= 54 (n,n') Level
Cross Section
23-V -50
-99.23 To -13.94%
Min
Ratio
TENDL Threshold 396.35 keV
JENDL4.0 Threshold 396.24 keV
Cross Section (milli-barns)
150
100
50
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^6
10^7
10^8
12
Incident Energy (eV)
23-V -50

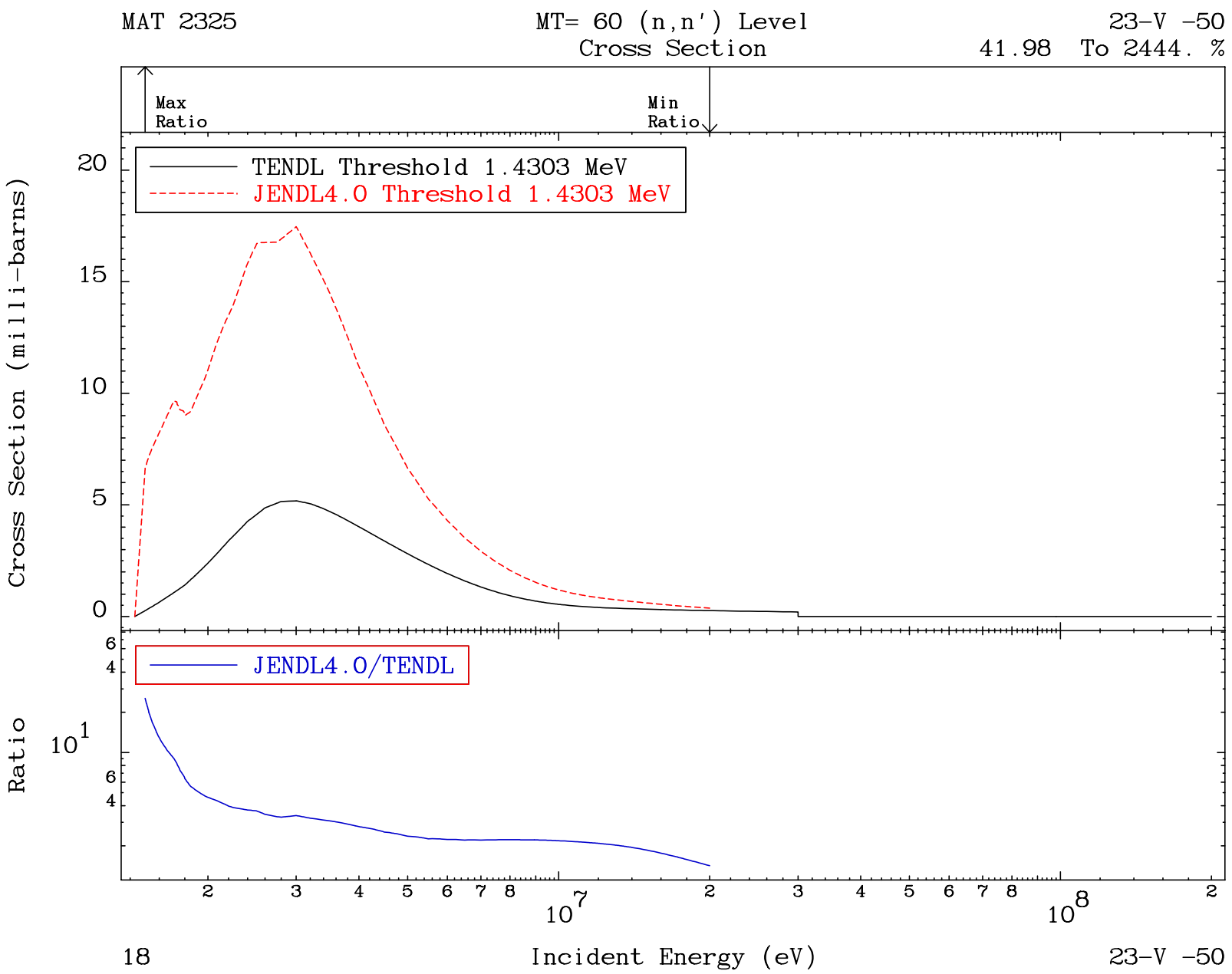

MAT 2325
MT= 55 (n,n') Level
Cross Section
23-V -50
-21.52 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 853.09 keV
JENDL4.0 Threshold 853.19 keV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
23-V -50

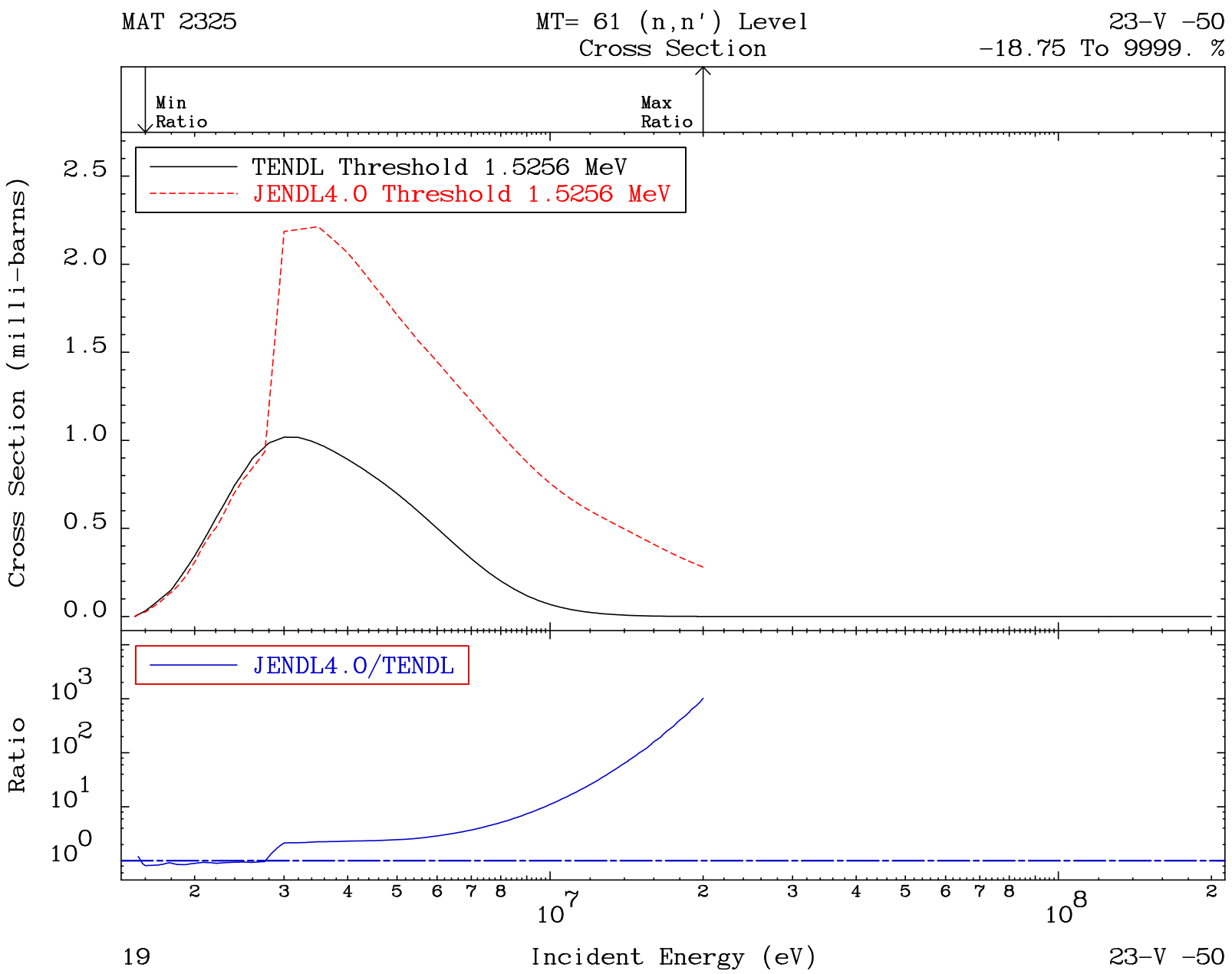

MAT 2325
MT= 56 (n,n') Level
Cross Section
23-V -50
27.99 To 6770. %
Min Ratio
Max Ratio
TENDL Threshold 928.38 keV
JENDL4.0 Threshold 928.38 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
10^6
10^7
10^8
Incident Energy (eV)
14
23-V -50

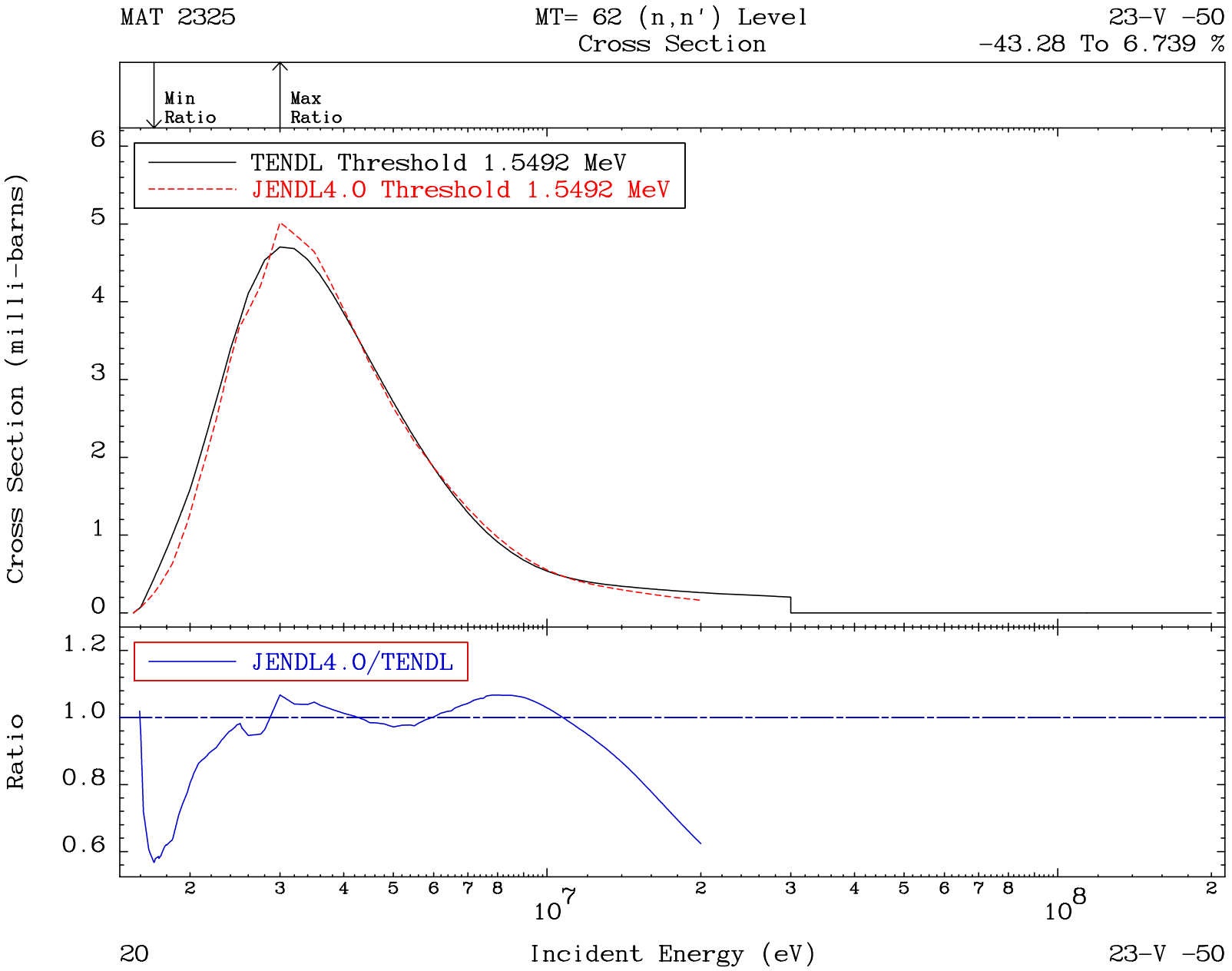

MAT 2325
MT= 57 (n,n') Level
Cross Section
23-V -50
-4.274 To 374.8 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1282 MeV
JENDL4.0 Threshold 928.48 keV
Cross Section (milli-barns)
0
20
40
60
80
JENDL4.0/TENDL
Ratio
2
4
10^6
10^7
10^8
Incident Energy (eV)
15
23-V -50

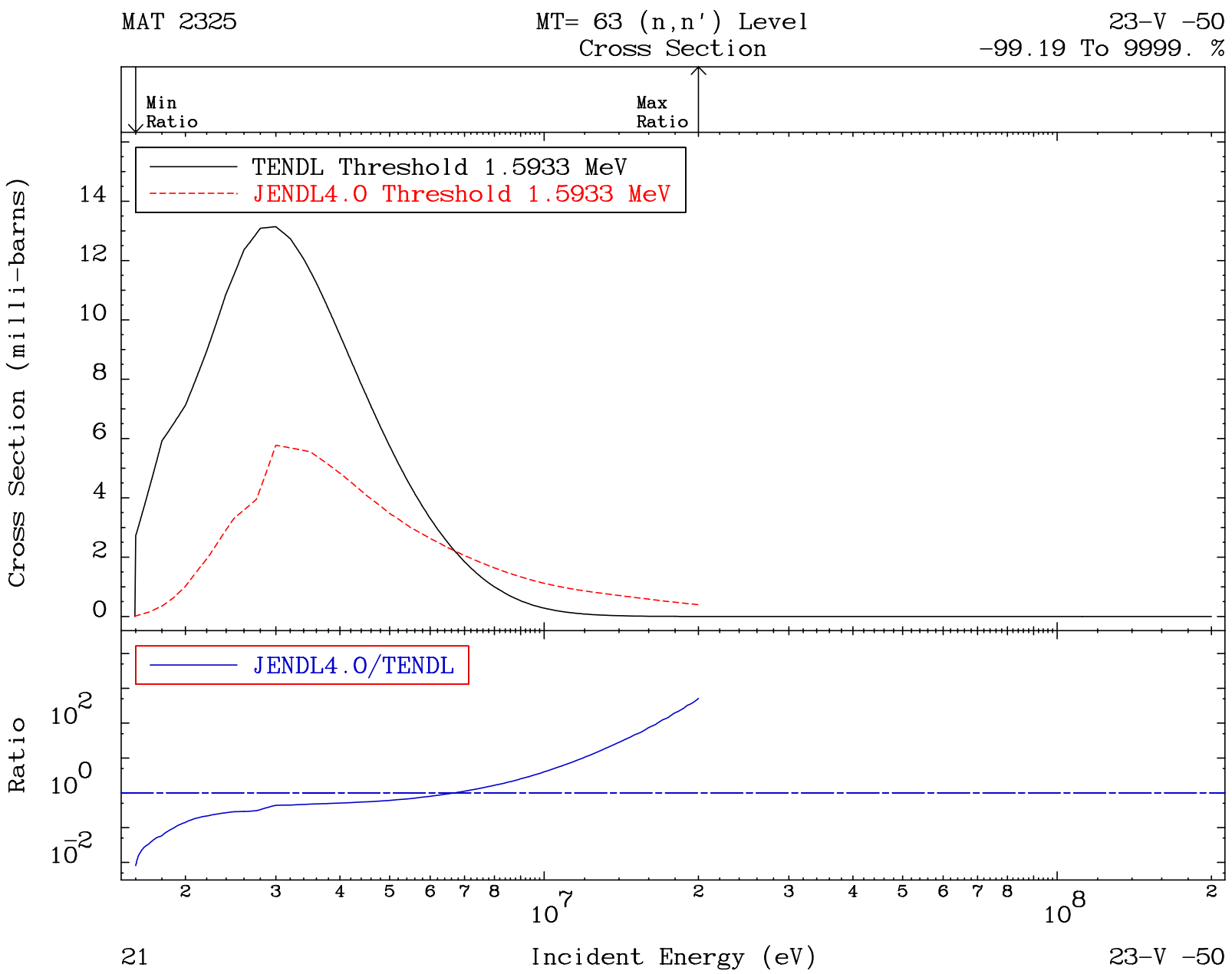

MAT 2325
MT= 58 (n,n') Level
Cross Section
23-V -50
-98.72 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.3278 MeV
JENDL4.0 Threshold 1.3278 MeV
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
16
Incident Energy (eV)
23-V -50

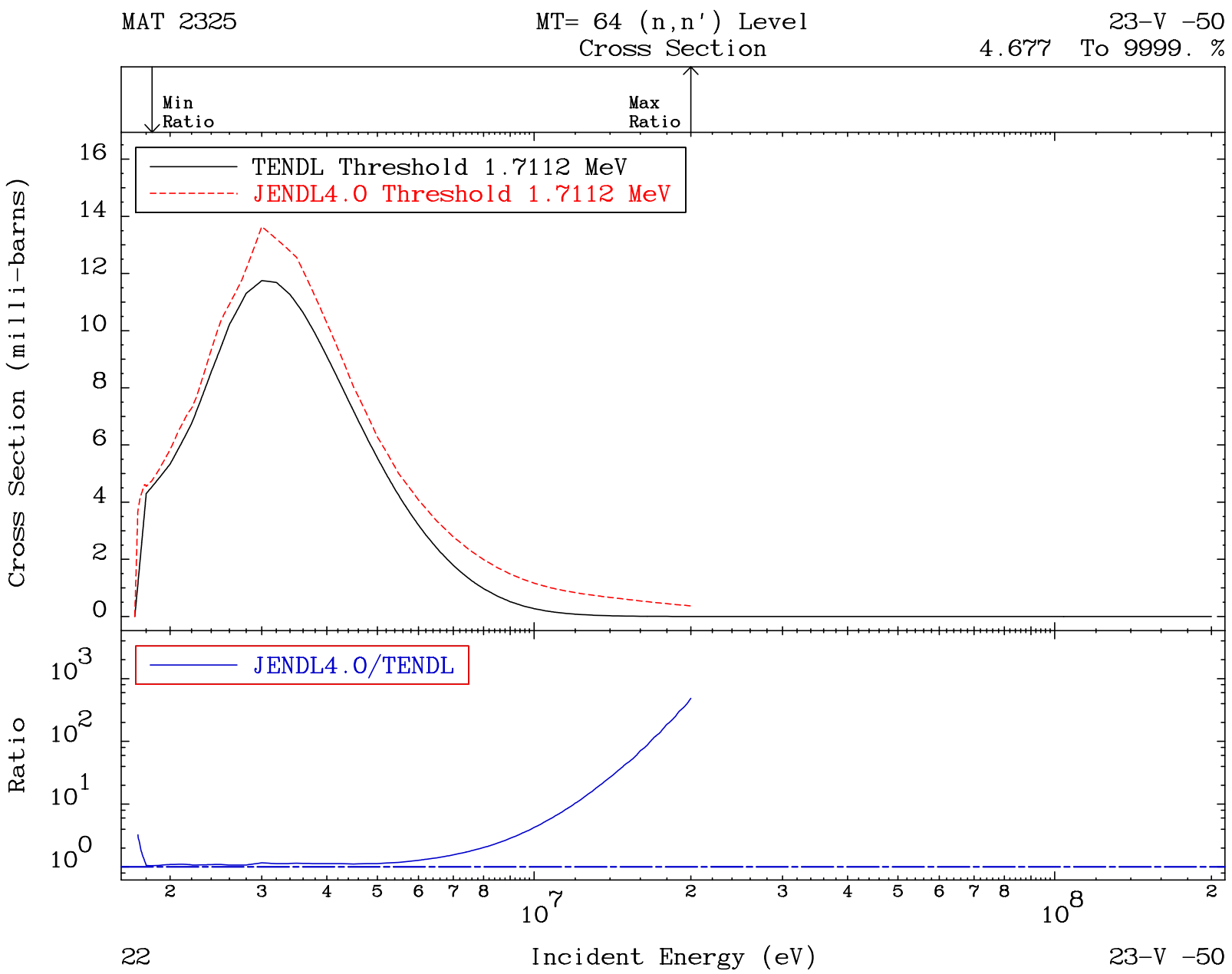

MAT 2325
MT= 59 (n,n') Level
Cross Section
23-V -50
-42.40 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.3585 MeV
JENDL4.0 Threshold 1.3585 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
23-V -50

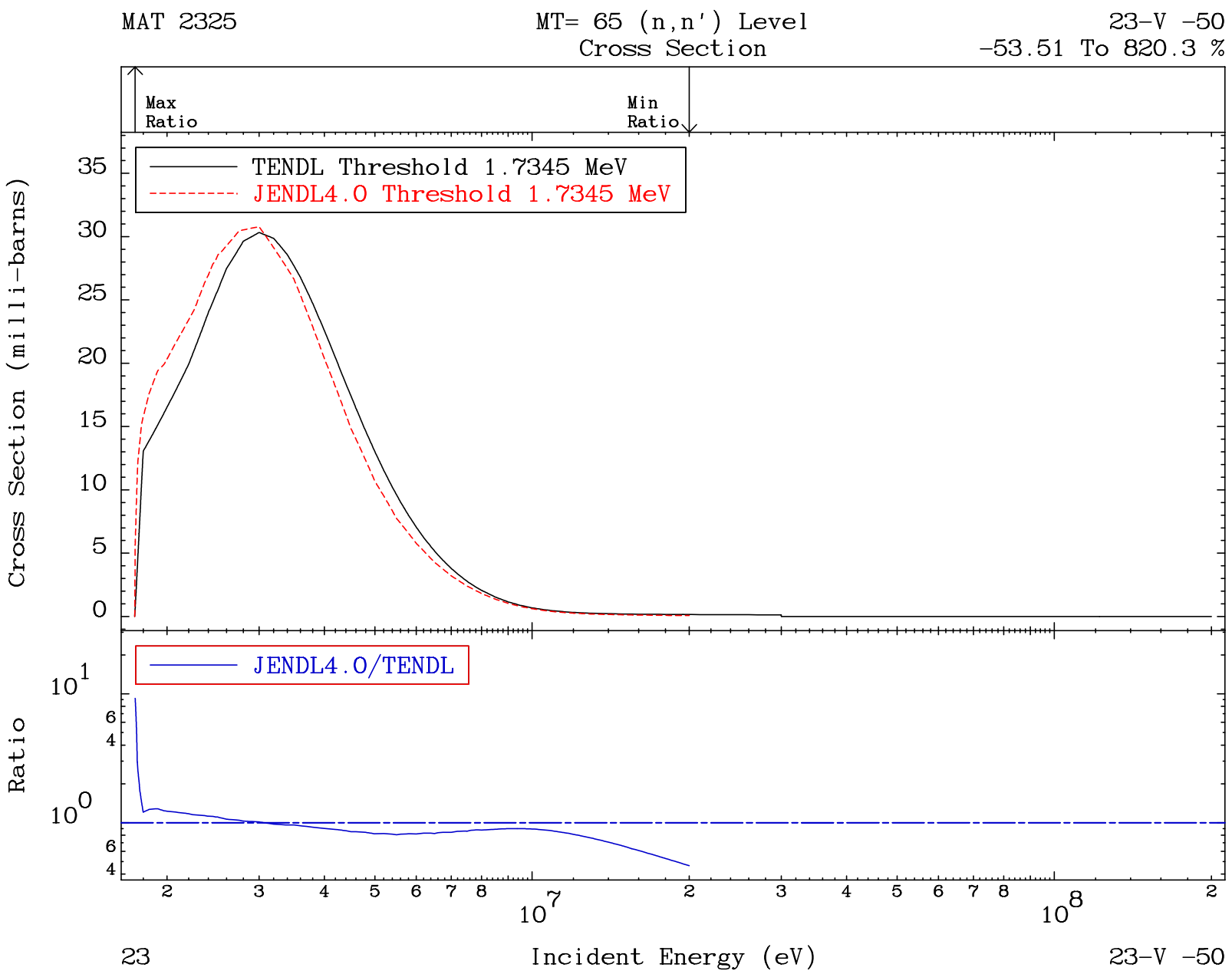

MAT 2325
MT= 60 (n,n') Level
Cross Section
23-V -50
41.98 To 2444. %
Max Ratio
Min Ratio
TENDL Threshold 1.4303 MeV
JENDL4.0 Threshold 1.4303 MeV
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
6
4
10^1
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
23-V -50

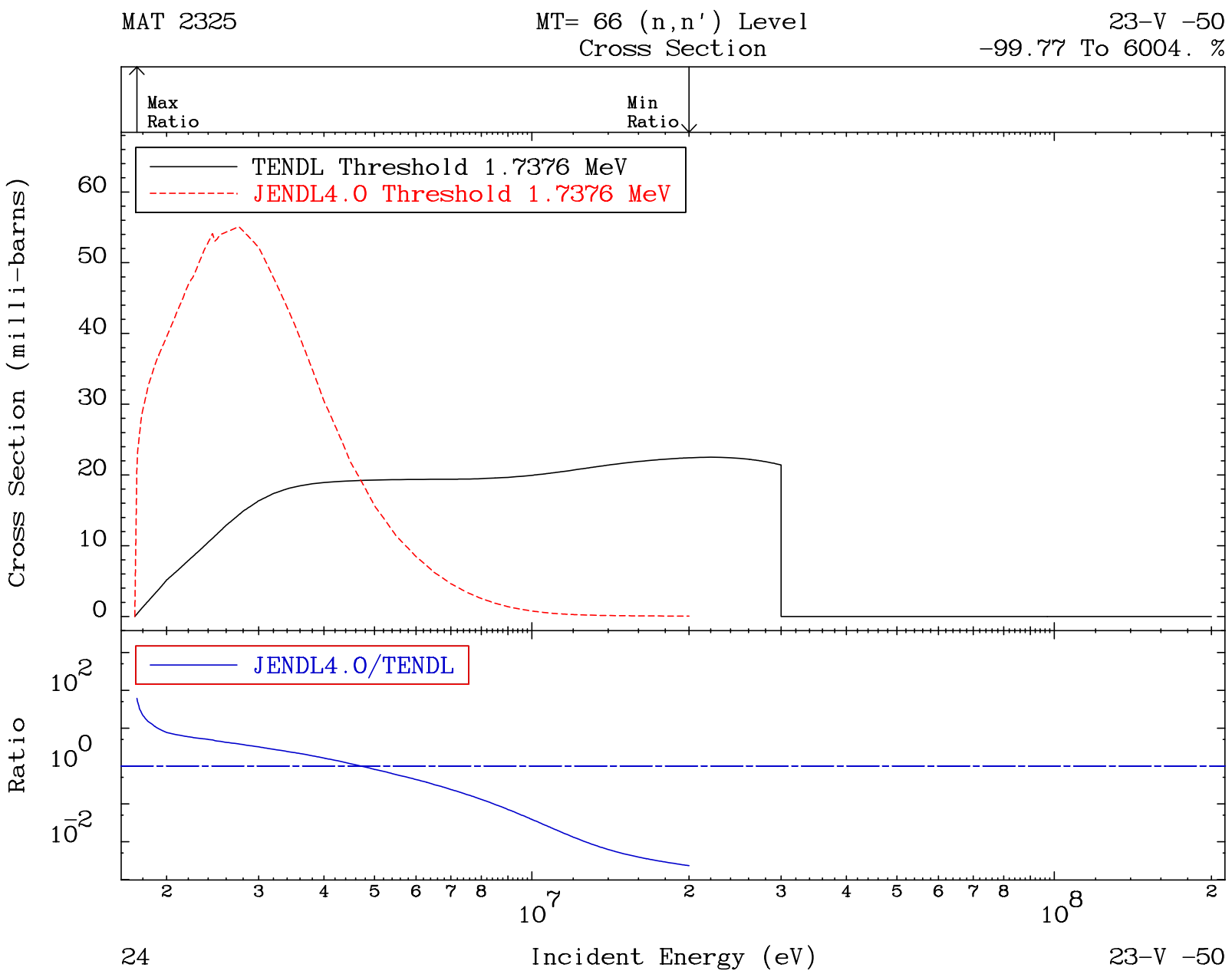

MAT 2325
MT= 61 (n,n') Level
Cross Section
23-V -50
-18.75 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5256 MeV
JENDL4.0 Threshold 1.5256 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
23-V -50

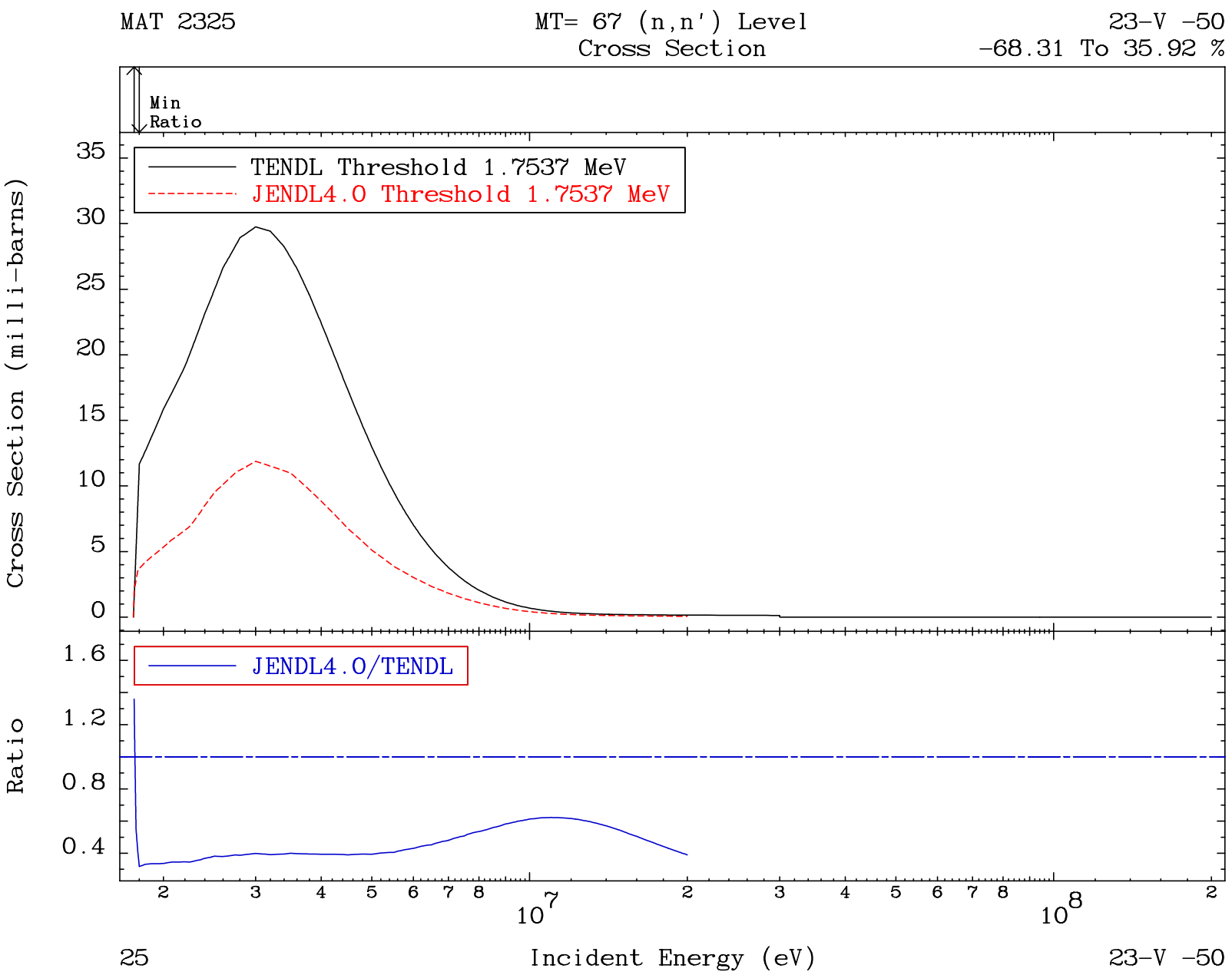

MAT 2325
MT= 62 (n,n') Level
Cross Section
23-V -50
-43.28 To 6.739 %
Min Ratio
Max Ratio
TENDL Threshold 1.5492 MeV
JENDL4.0 Threshold 1.5492 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
20
23-V -50

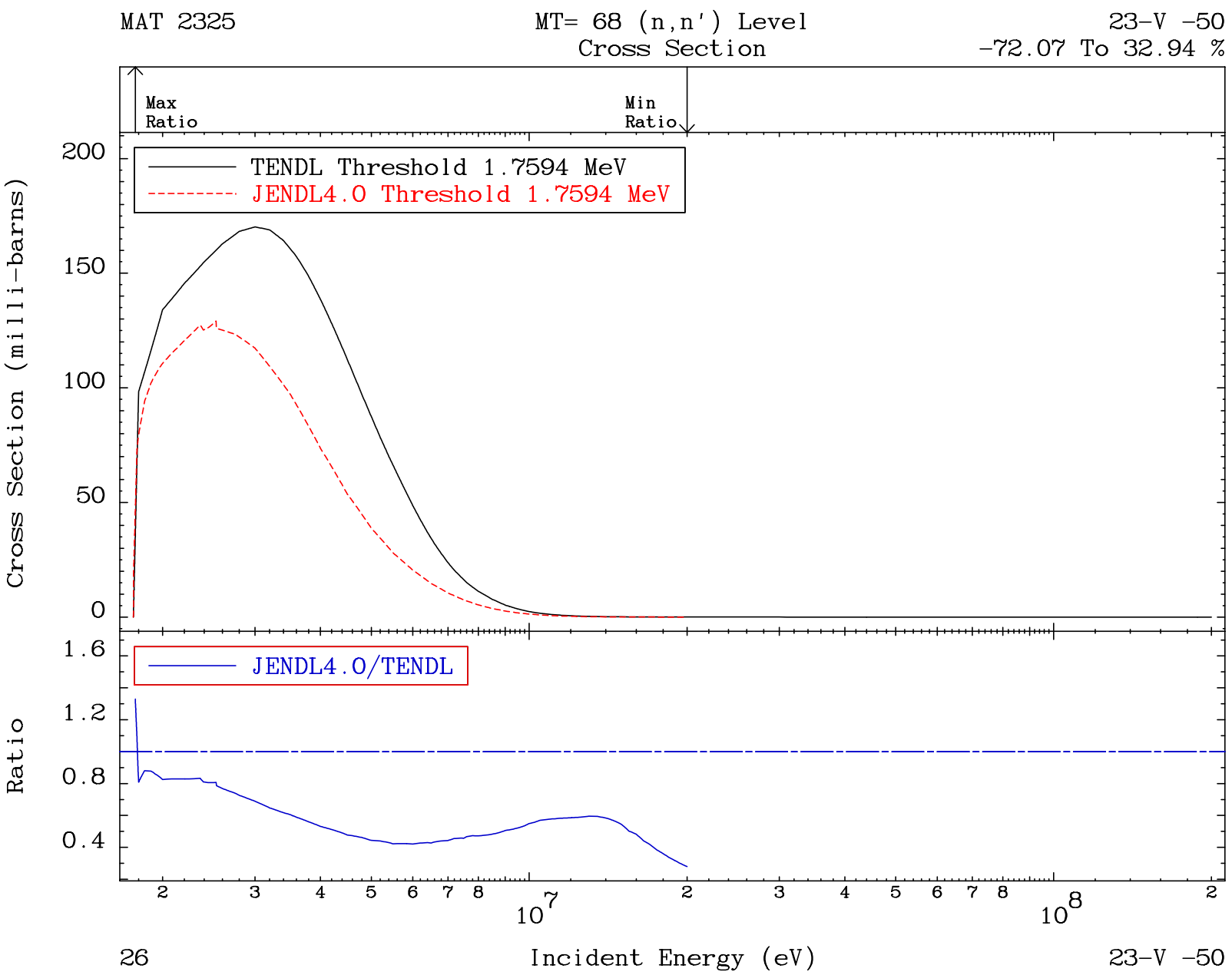

MAT 2325
MT= 63 (n,n') Level
Cross Section
23-V -50
-99.19 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5933 MeV
JENDL4.0 Threshold 1.5933 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
23-V -50

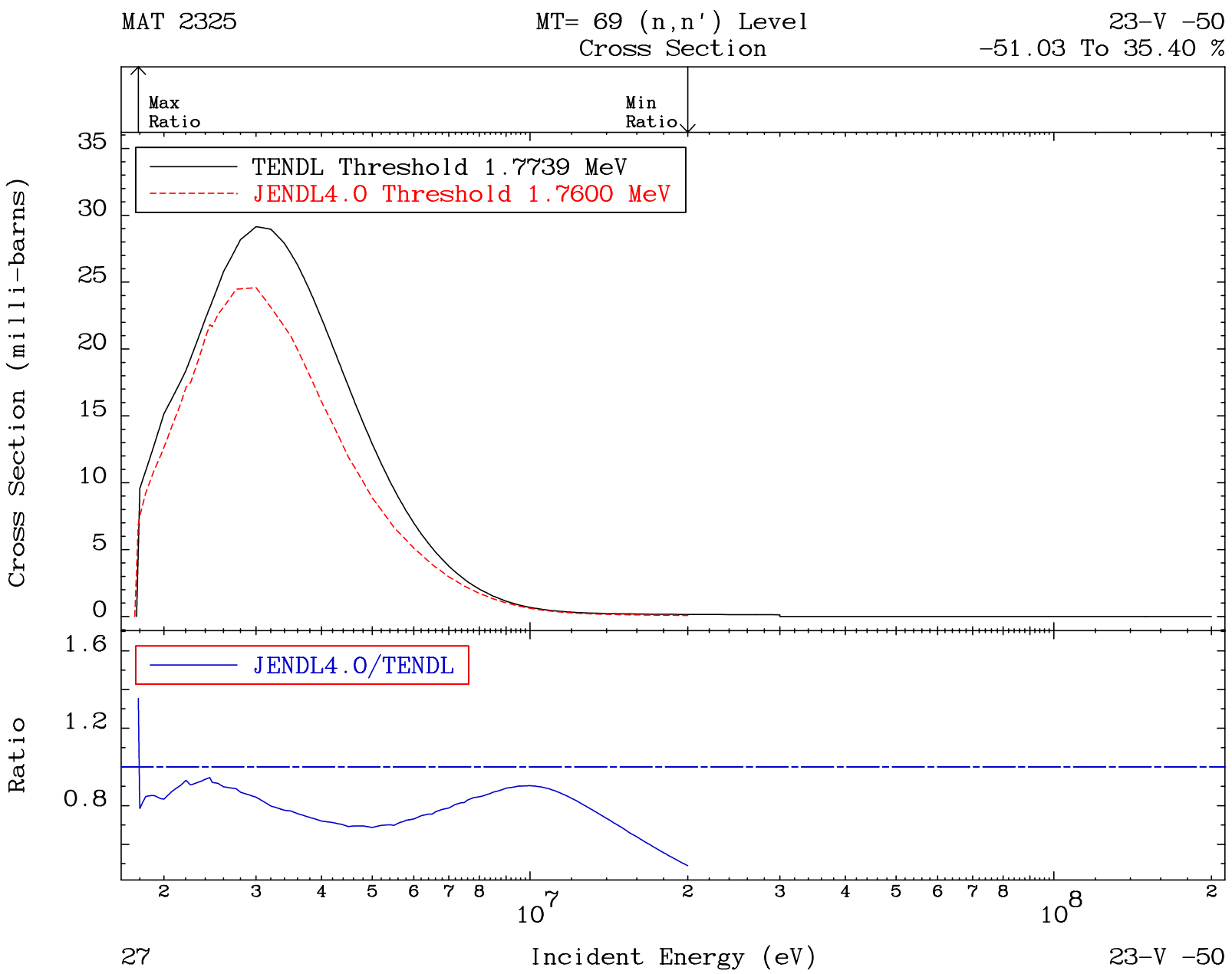

MAT 2325
MT= 64 (n,n') Level
Cross Section
23-V -50
4.677 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7112 MeV
JENDL4.0 Threshold 1.7112 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
22
23-V -50

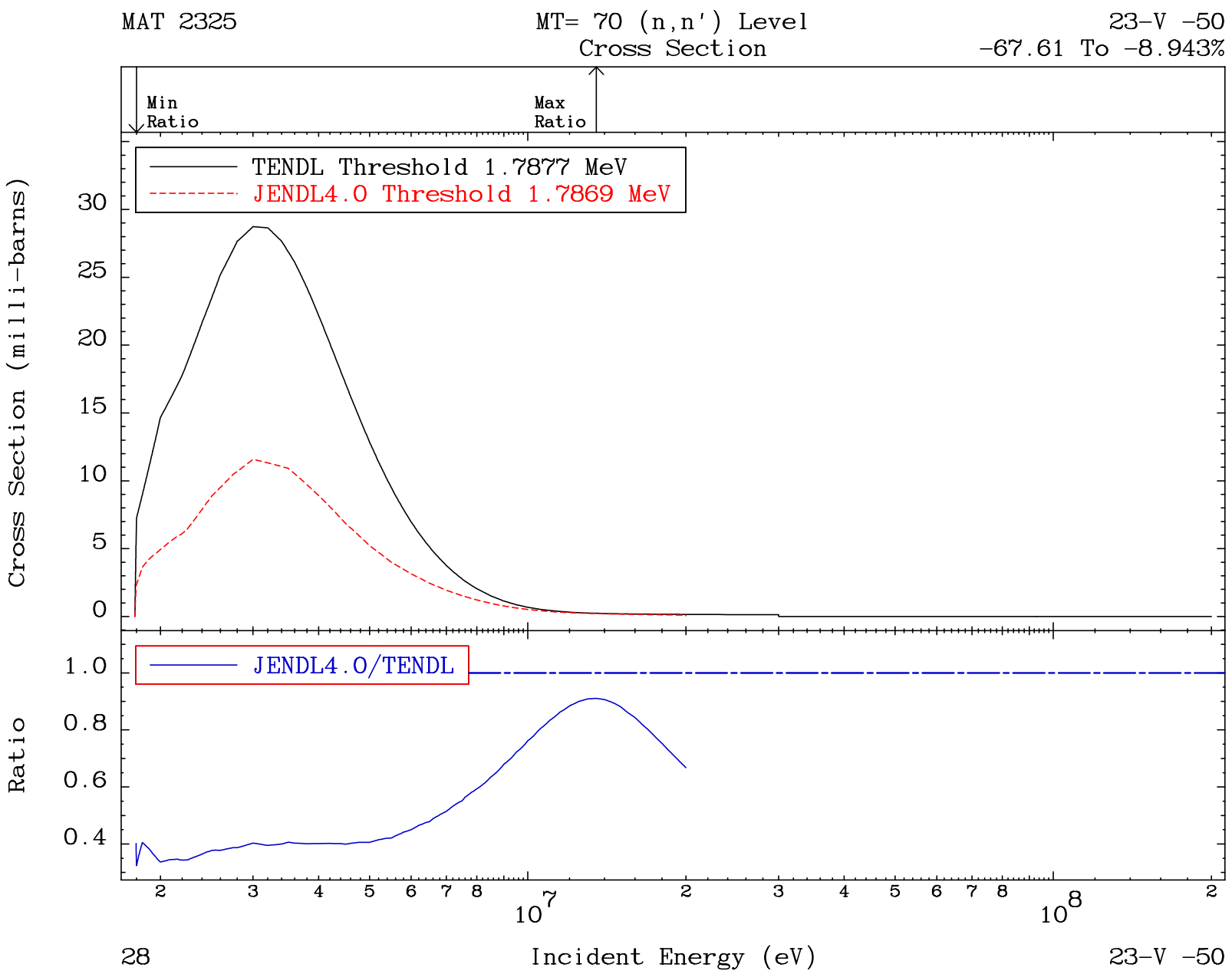

MAT 2325
MT= 65 (n,n') Level
Cross Section
23-V -50
-53.51 To 820.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7345 MeV
JENDL4.0 Threshold 1.7345 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^1
10^0
6
4
6
4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
23
Incident Energy (eV)
23-V -50

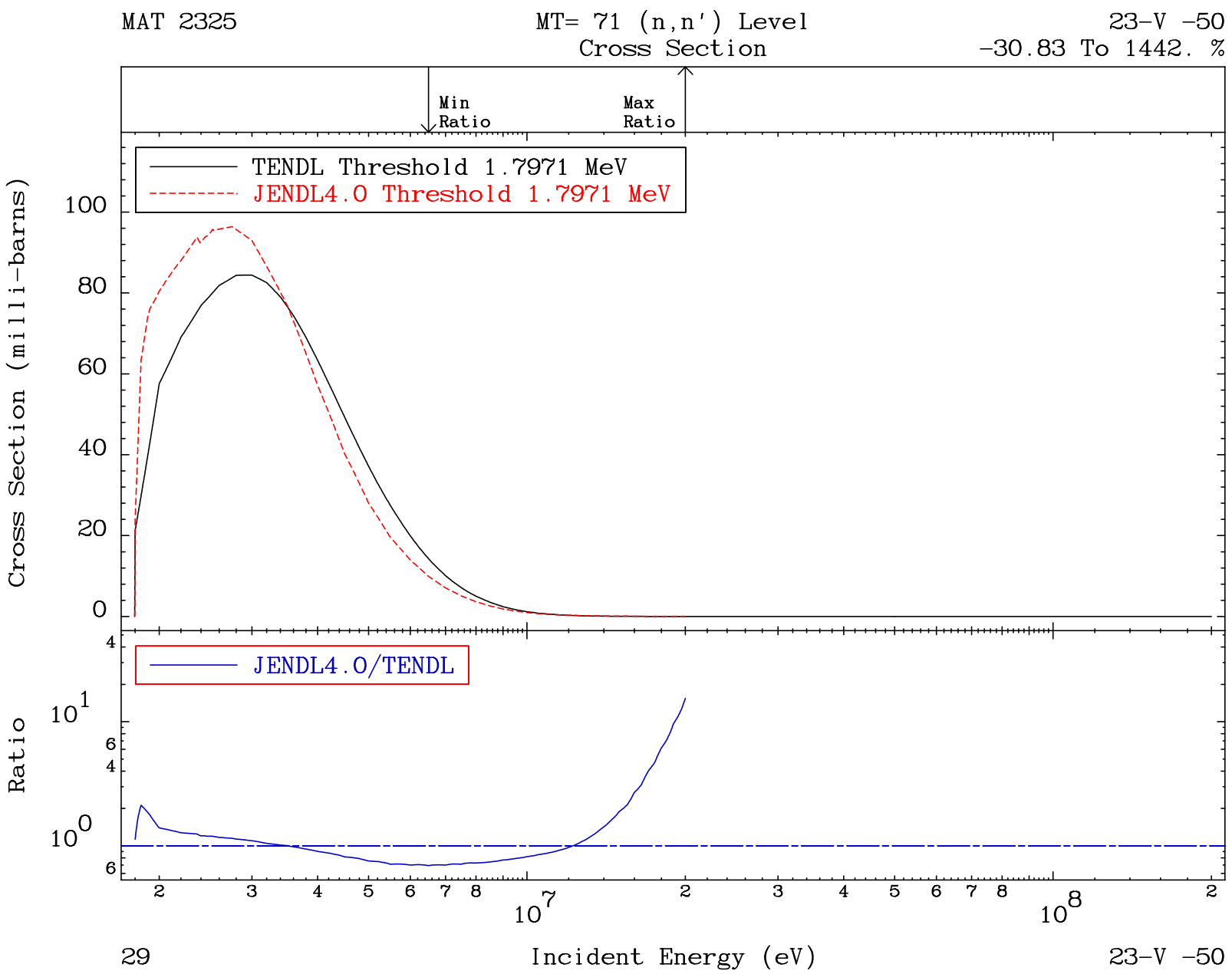

MAT 2325
MT= 66 (n,n') Level
Cross Section
23-V -50
-99.77 To 6004. %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7376 MeV
JENDL4.0 Threshold 1.7376 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
23-V -50

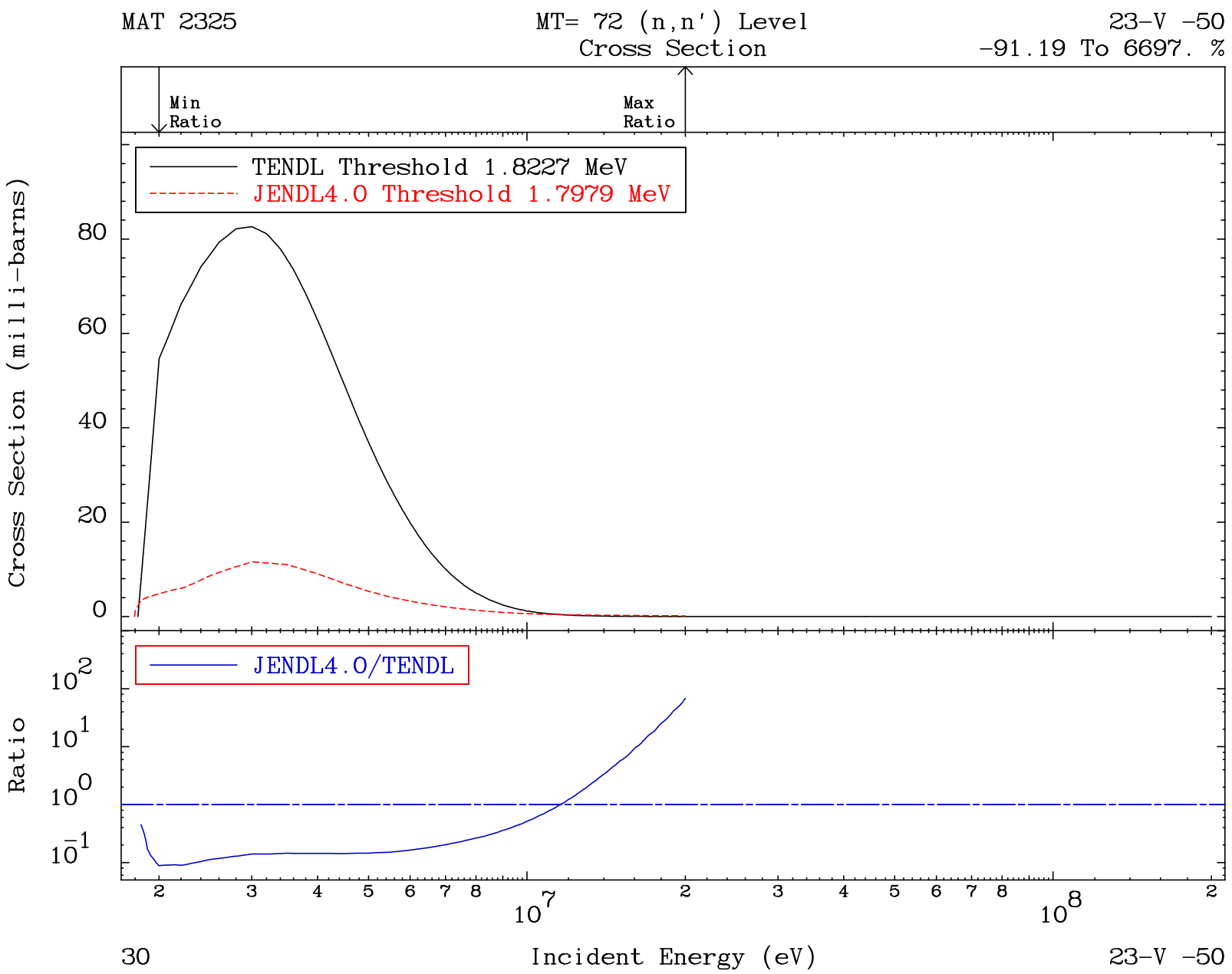

MAT 2325
MT= 67 (n,n') Level
Cross Section
23-V -50
-68.31 To 35.92 %
Min
Ratio
TENDL Threshold 1.7537 MeV
JENDL4.0 Threshold 1.7537 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
23-V -50

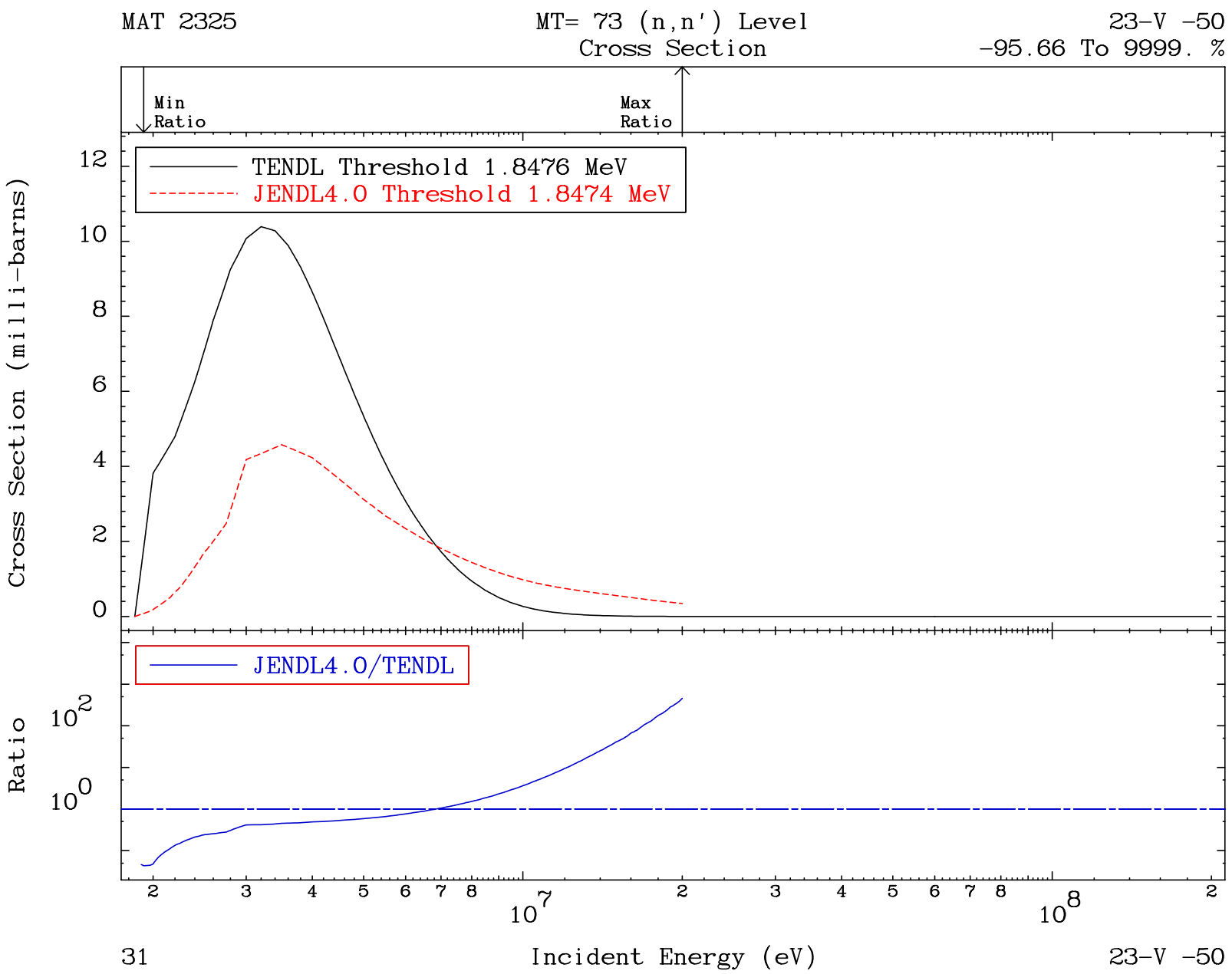

MAT 2325
MT= 68 (n,n') Level
Cross Section
23-V -50
-72.07 To 32.94 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7594 MeV
JENDL4.0 Threshold 1.7594 MeV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
23-V -50

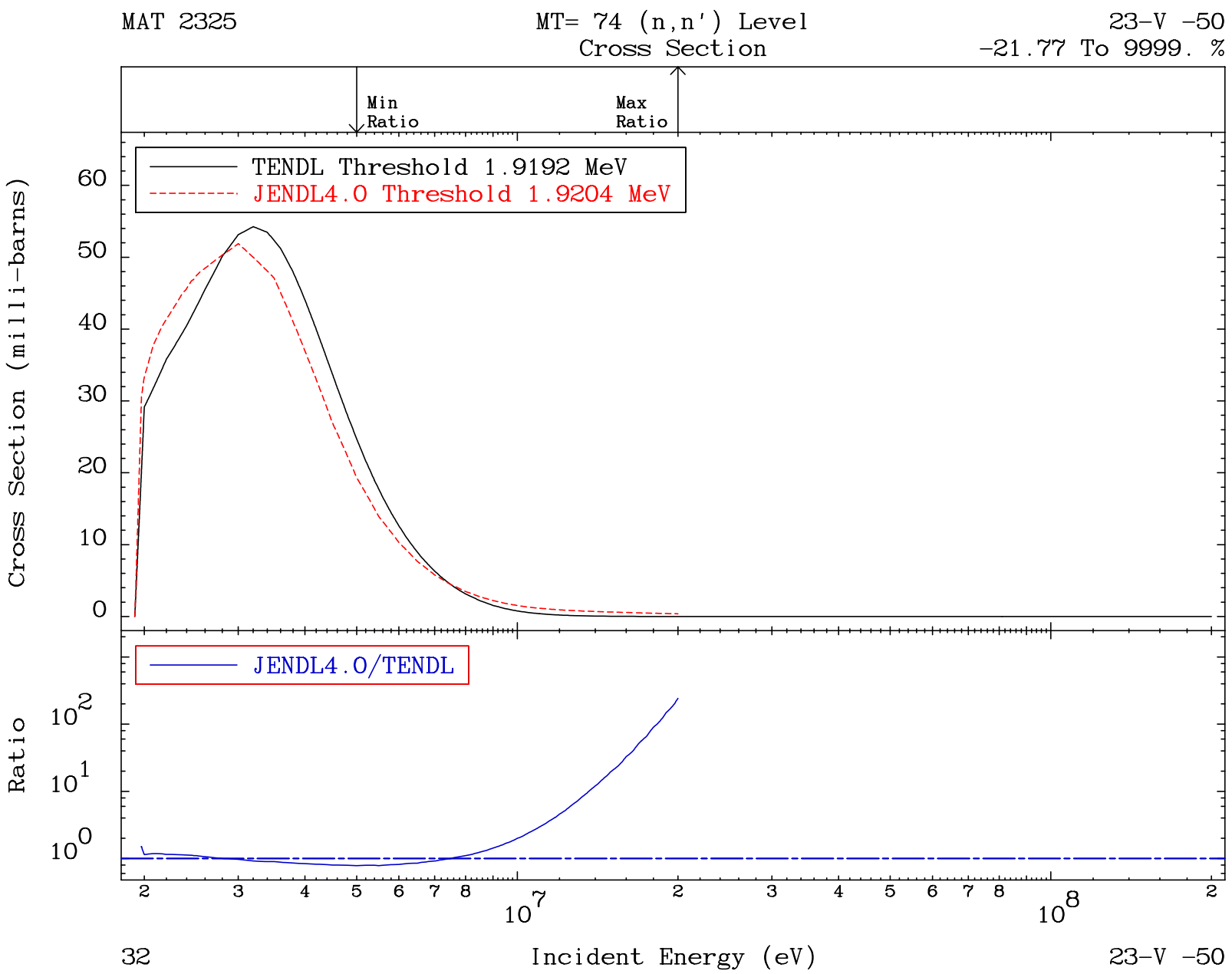

MAT 2325
MT= 69 (n,n') Level
Cross Section
23-V -50
-51.03 To 35.40 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.7739 MeV
JENDL4.0 Threshold 1.7600 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
27
Incident Energy (eV)
23-V -50

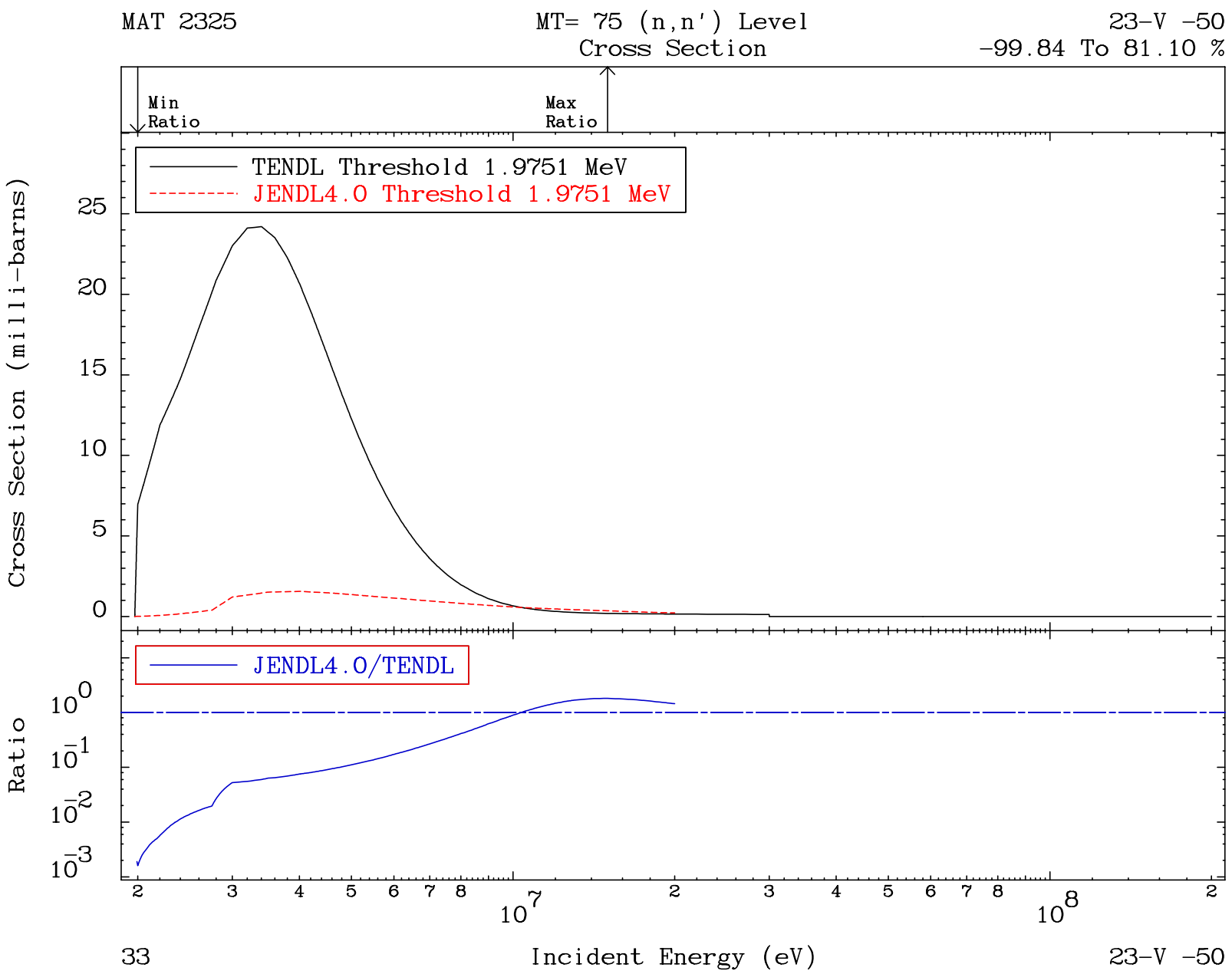

MAT 2325
MT= 70 (n,n') Level
Cross Section
23-V -50
-67.61 To -8.943%
Min
Ratio
Max
Ratio
TENDL Threshold 1.7877 MeV
JENDL4.0 Threshold 1.7869 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
28
Incident Energy (eV)
23-V -50

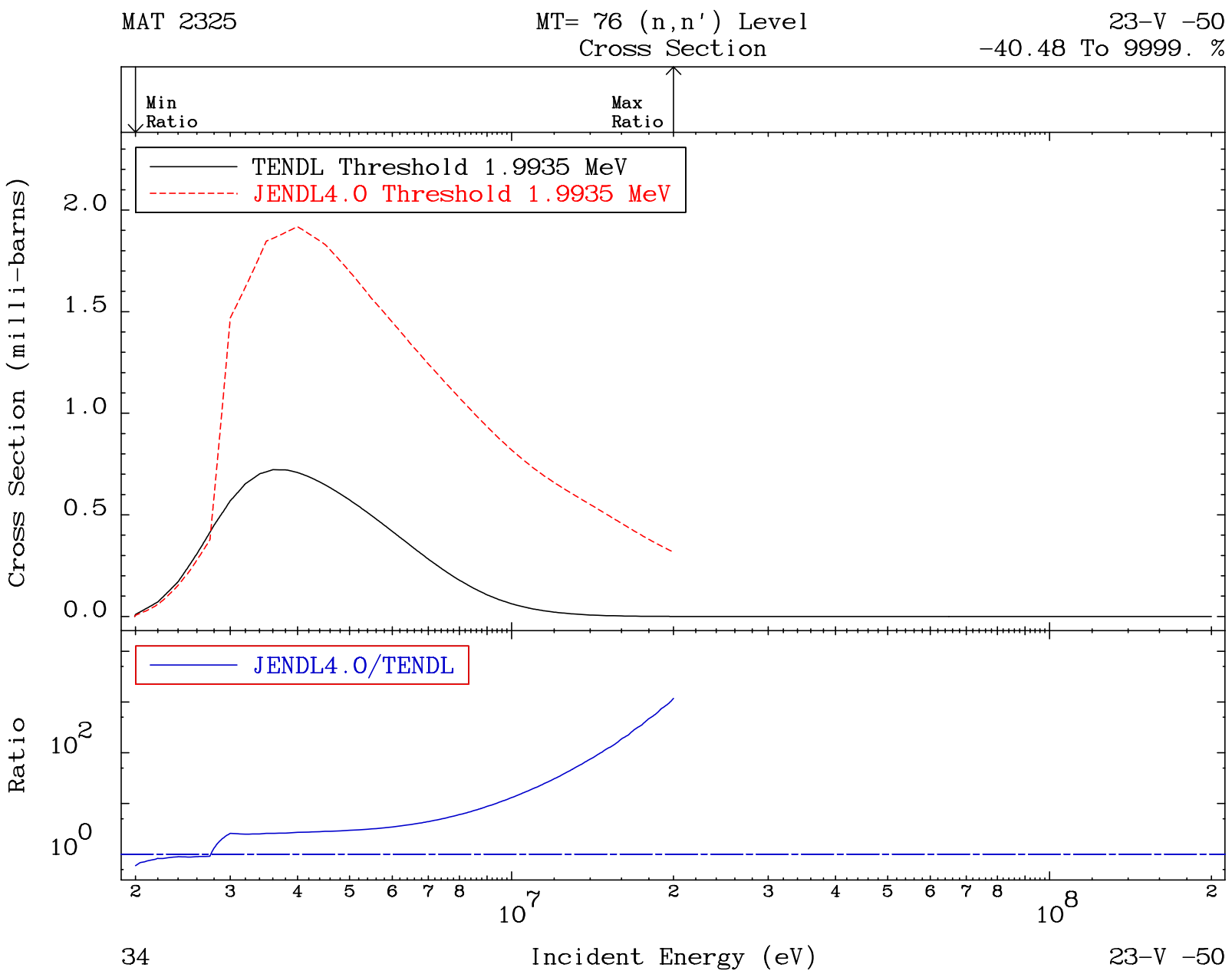

MAT 2325
MT= 71 (n,n') Level
Cross Section
23-V -50
-30.83 To 1442. %
Min Ratio
Max Ratio
TENDL Threshold 1.7971 MeV
JENDL4.0 Threshold 1.7971 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^1
10^0
6
4
2
3
4
5
6
7
8
10^7
10^8
29
Incident Energy (eV)
23-V -50

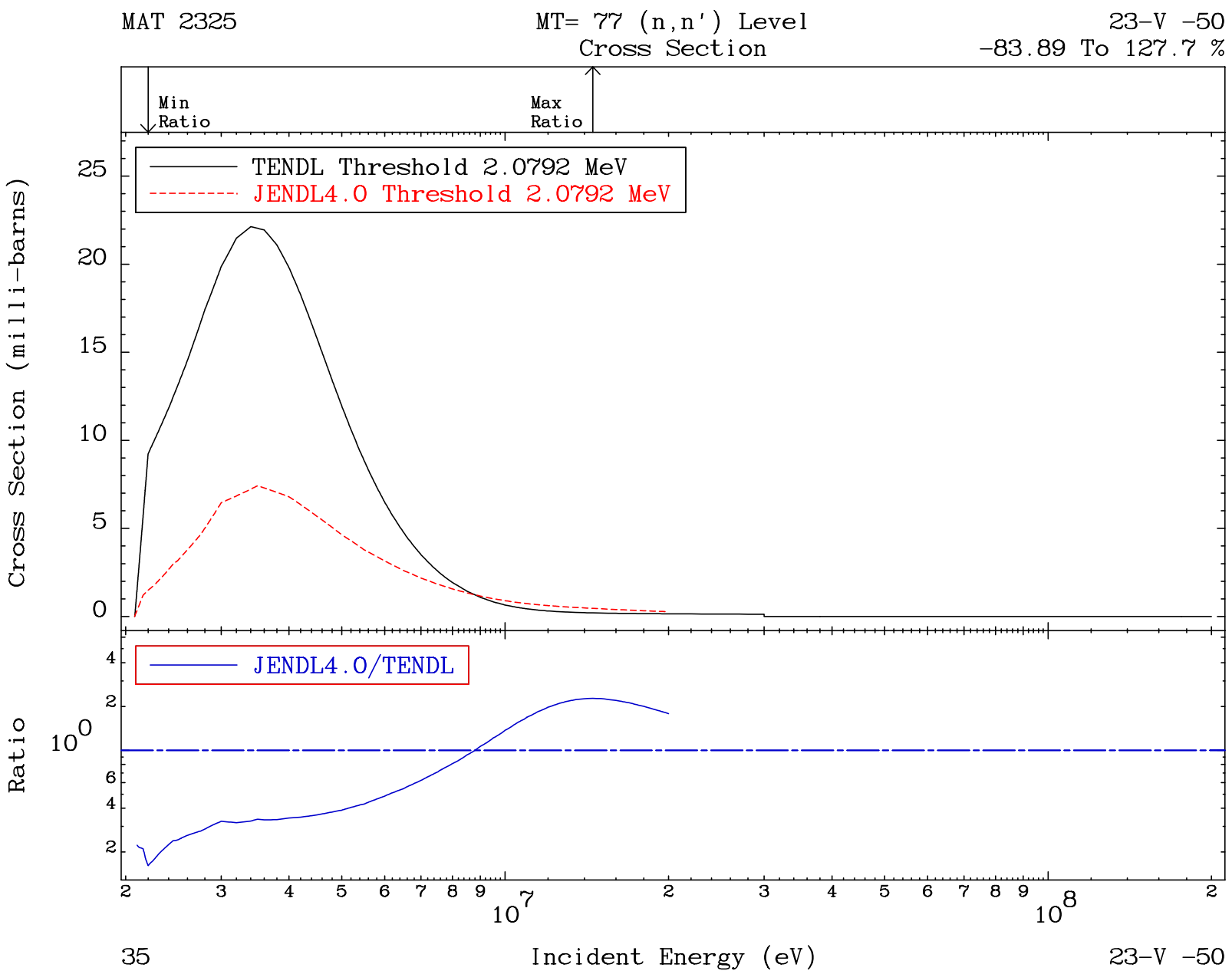

MAT 2325
MT= 72 (n,n') Level
Cross Section
23-V -50
-91.19 To 6697. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.8227 MeV
JENDL4.0 Threshold 1.7979 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
10^{-1}
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
23-V -50

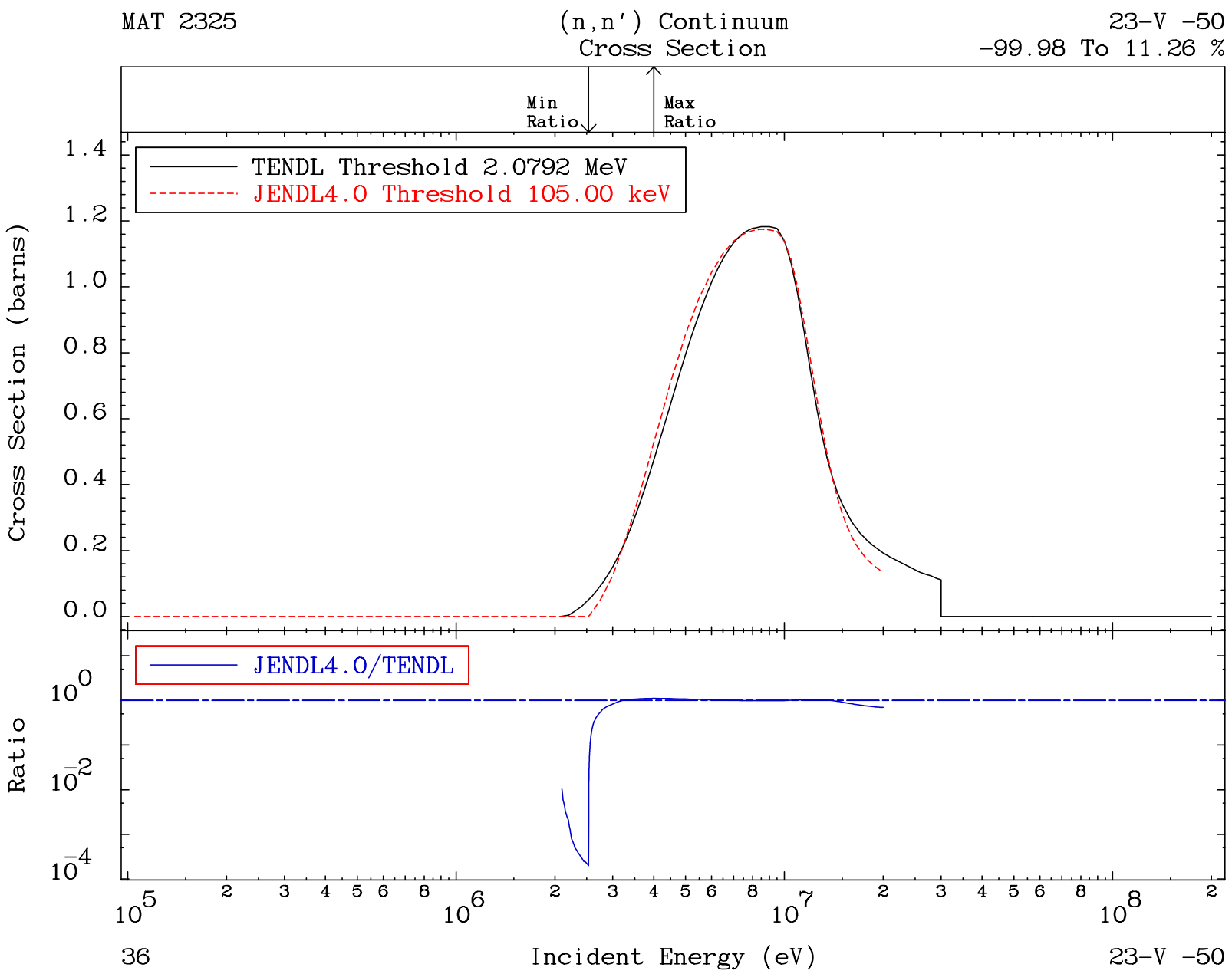

MAT 2325
MT= 73 (n,n') Level
Cross Section
23-V -50
-95.66 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.8476 MeV
JENDL4.0 Threshold 1.8474 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
23-V -50

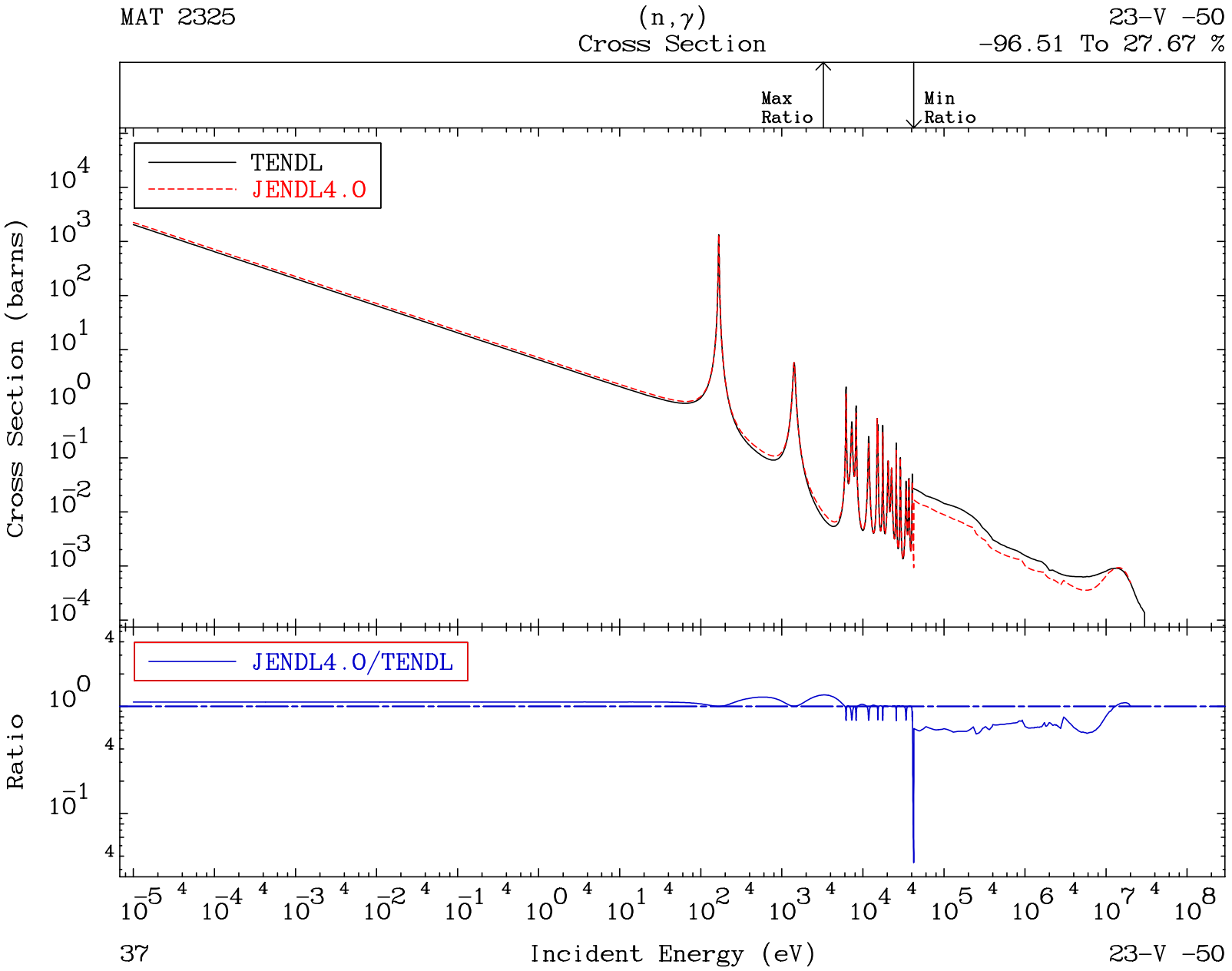

MAT 2325
MT= 74 (n,n') Level
Cross Section
23-V -50
-21.77 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.9192 MeV
JENDL4.0 Threshold 1.9204 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
23-V -50

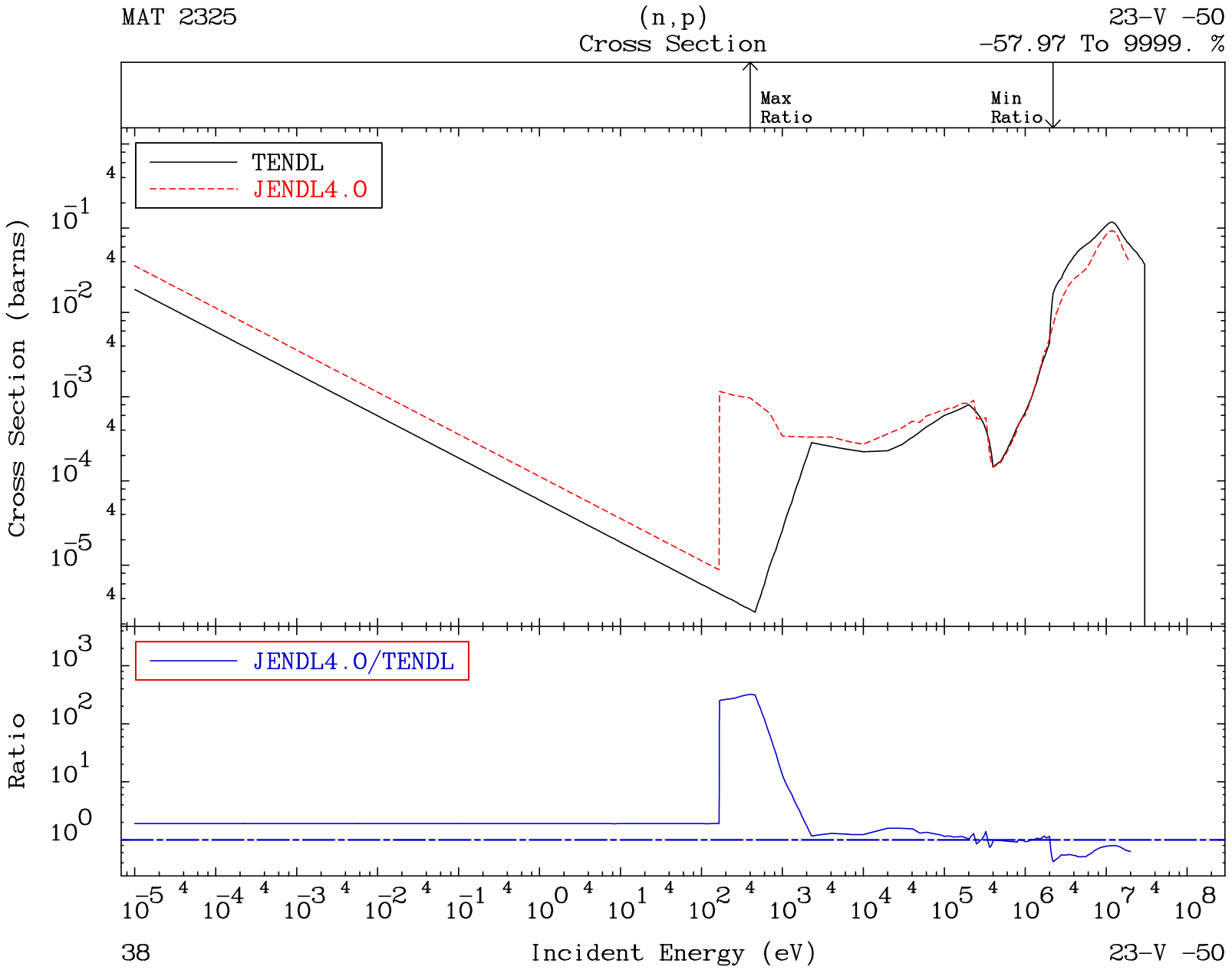

MAT 2325
MT= 75 (n,n') Level
Cross Section
23-V -50
-99.84 To 81.10 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.9751 MeV
JENDL4.0 Threshold 1.9751 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
33
Incident Energy (eV)
23-V -50

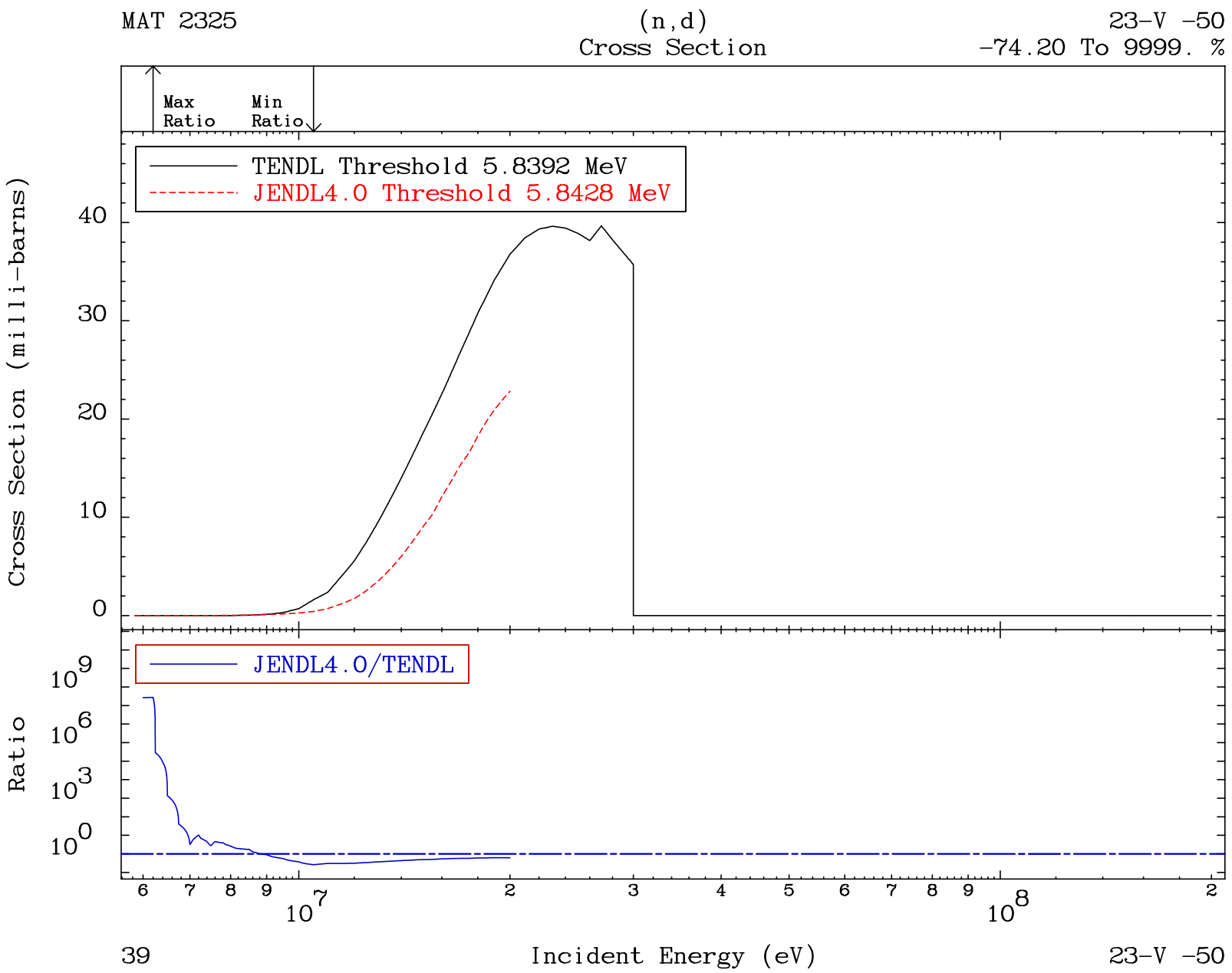

MAT 2325
MT= 76 (n,n') Level
Cross Section
23-V -50
-40.48 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.9935 MeV
JENDL4.0 Threshold 1.9935 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
23-V -50

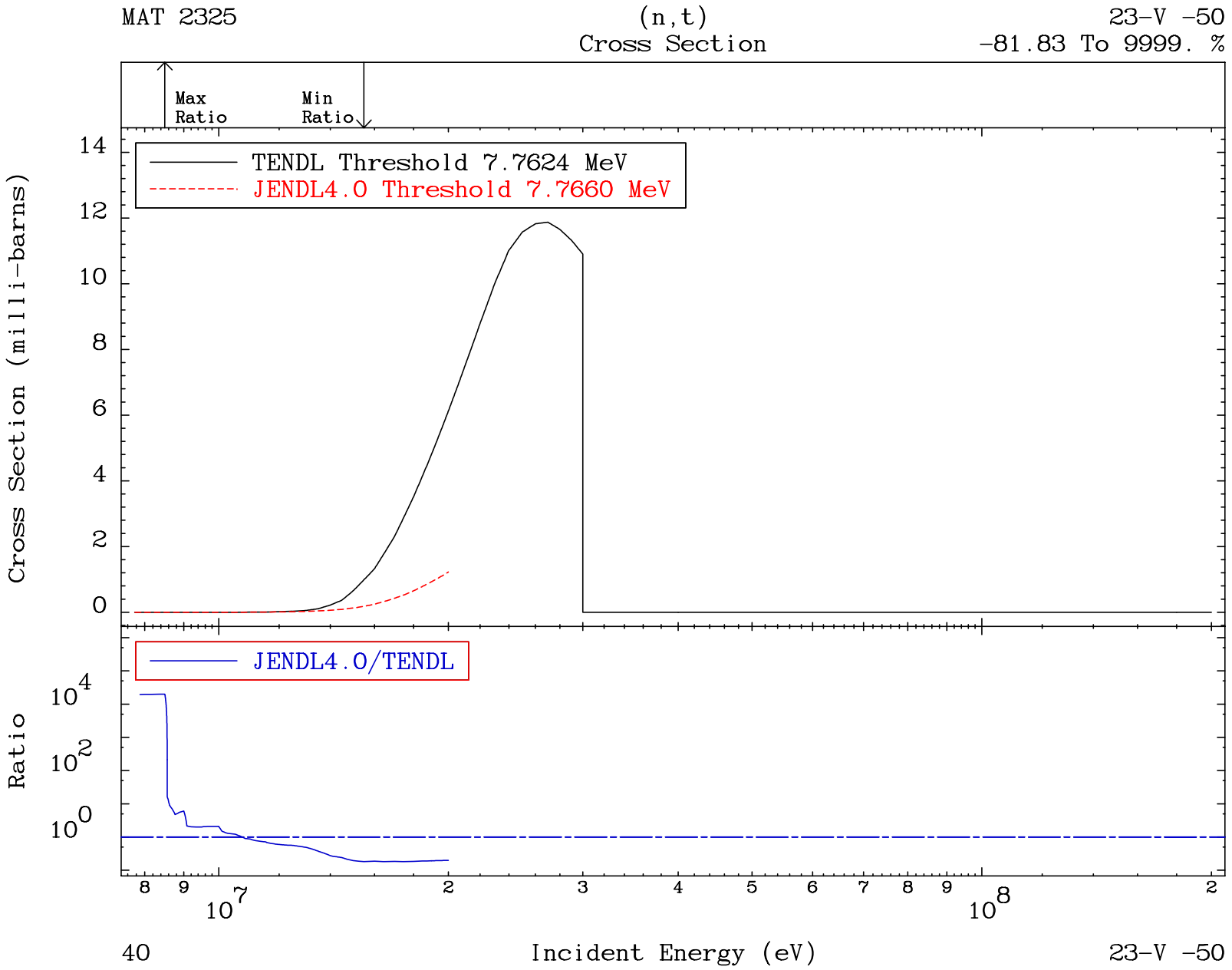

MAT 2325
MT= 77 (n,n') Level
Cross Section
23-V -50
-83.89 To 127.7 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0792 MeV
JENDL4.0 Threshold 2.0792 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
4
2
10^0
6
4
2
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
23-V -50

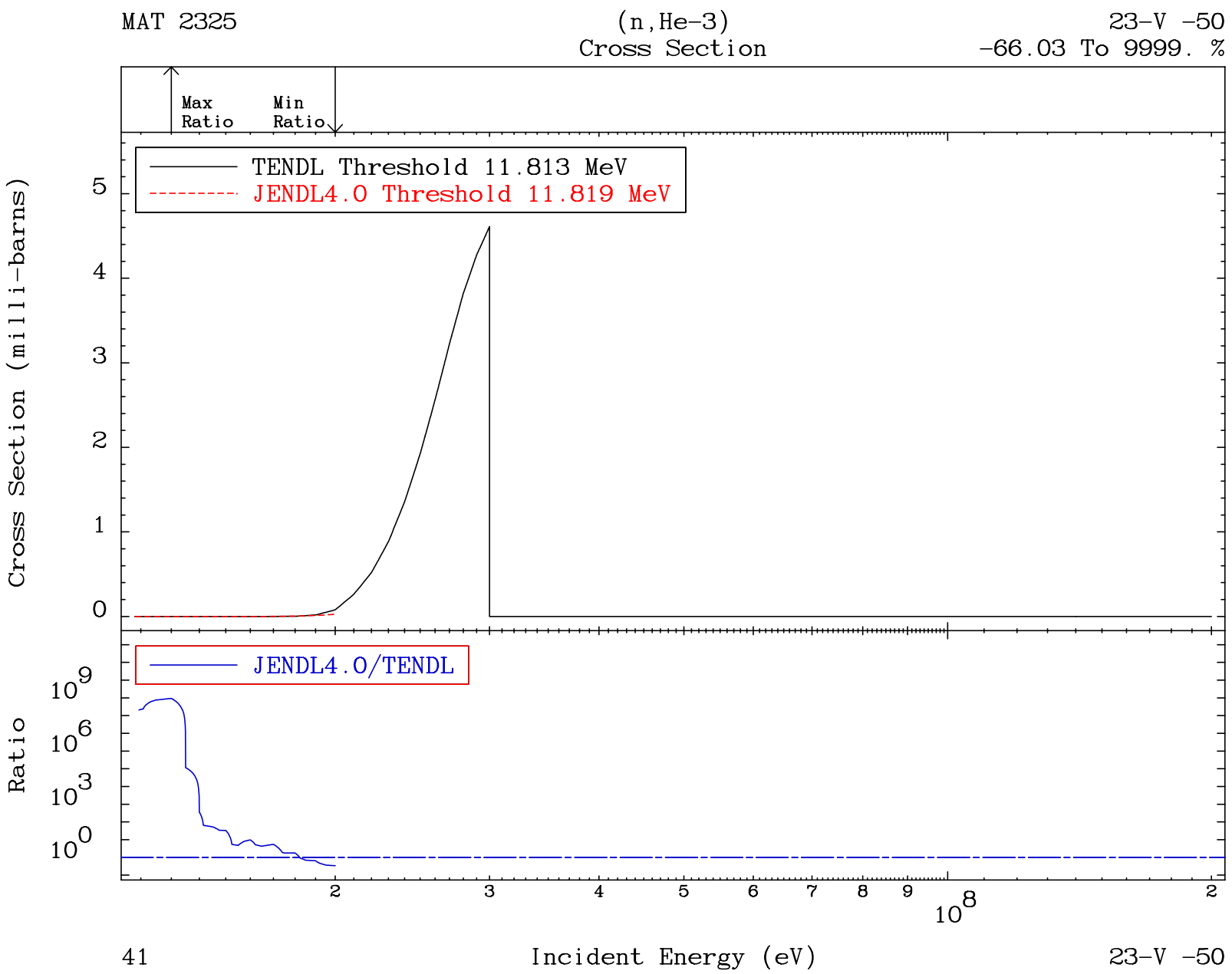

MAT 2325
(n,n') Continuum
Cross Section
23-V -50
-99.98 To 11.26 %
Min Ratio
Max Ratio
TENDL Threshold 2.0792 MeV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
23-V -50

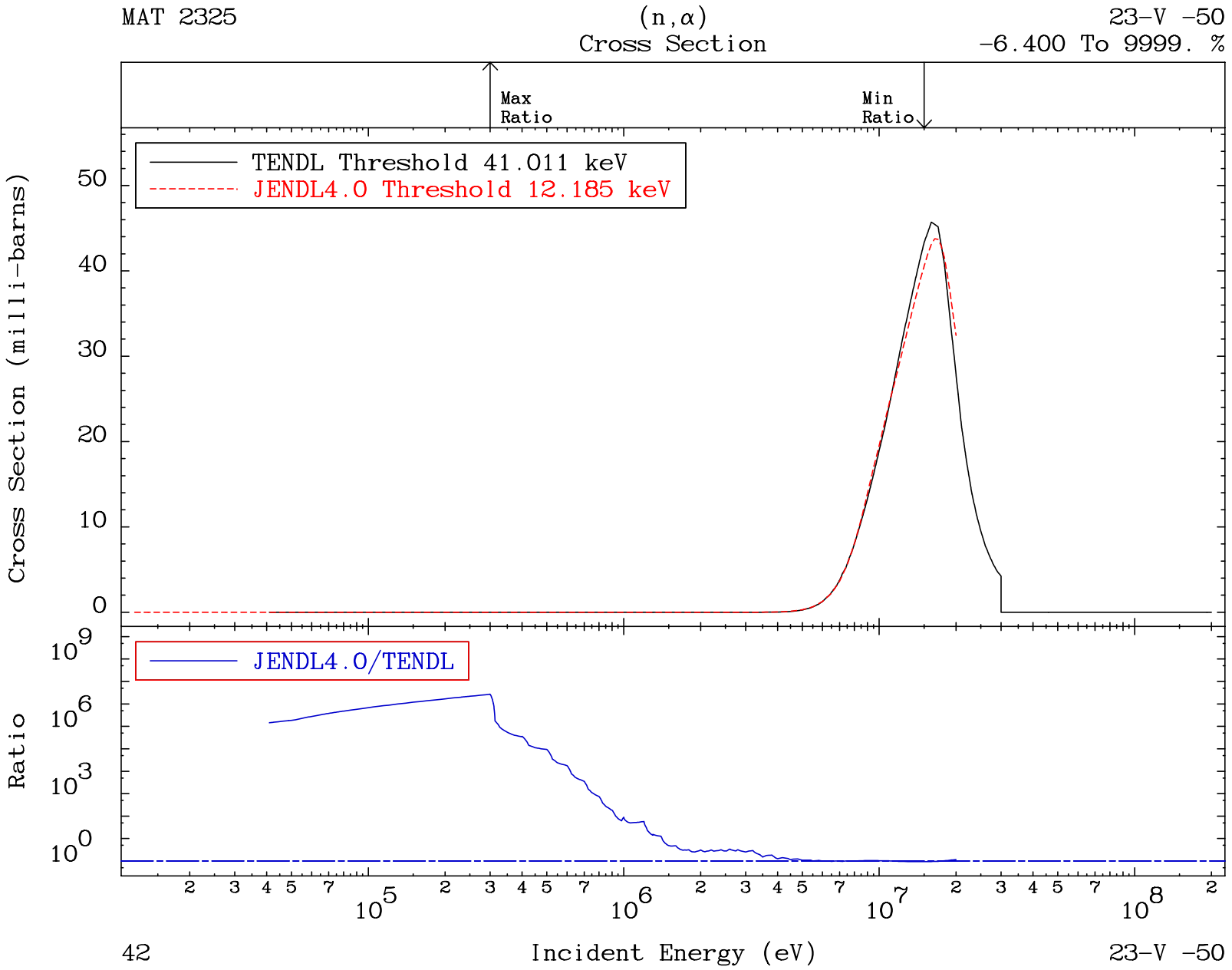

MAT 2325
(n,γ)
Cross Section
23-V -50
-96.51 To 27.67 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
37
23-V -50

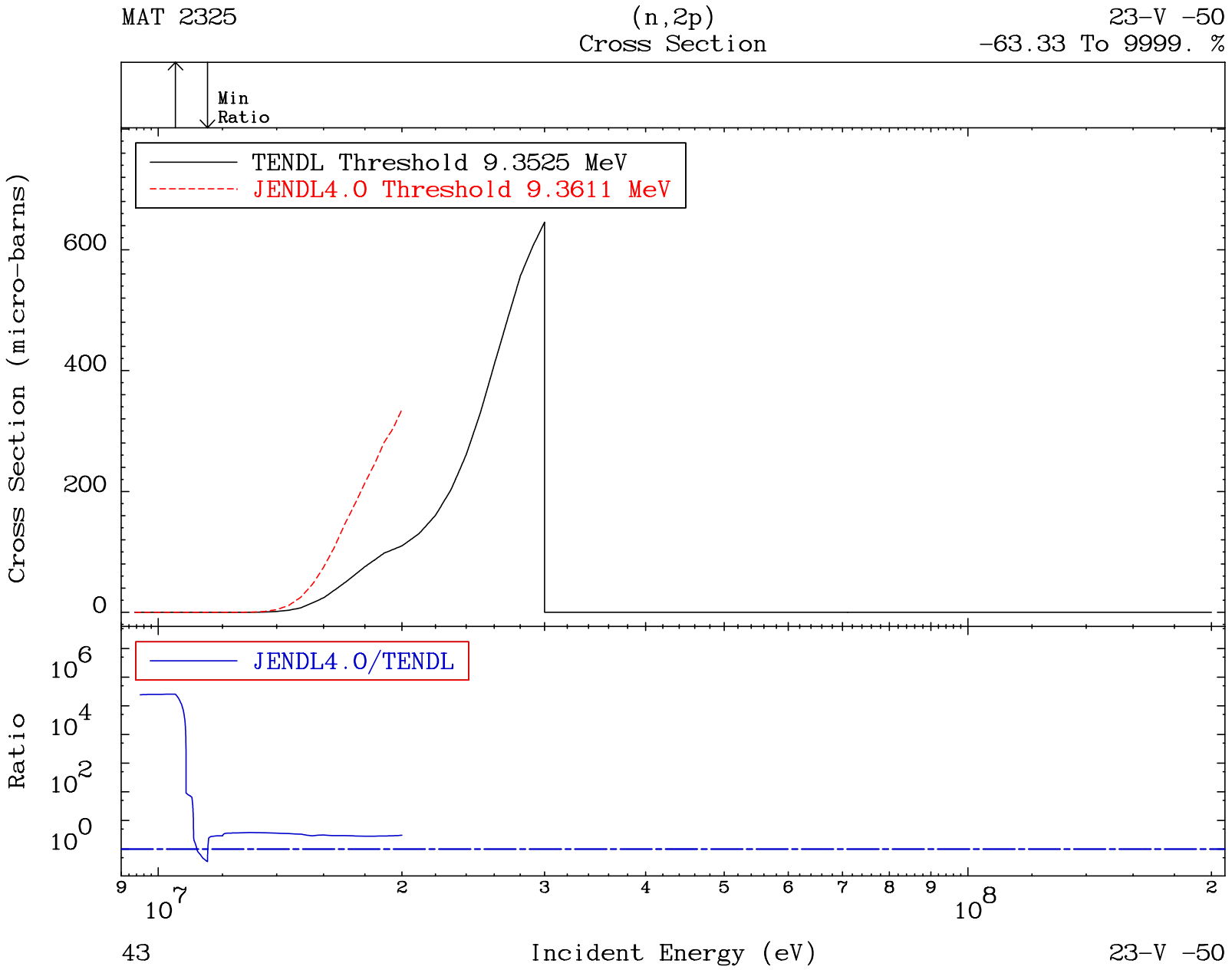

MAT 2325
(n,p)
Cross Section
23-V -50
-57.97 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
38
23-V -50

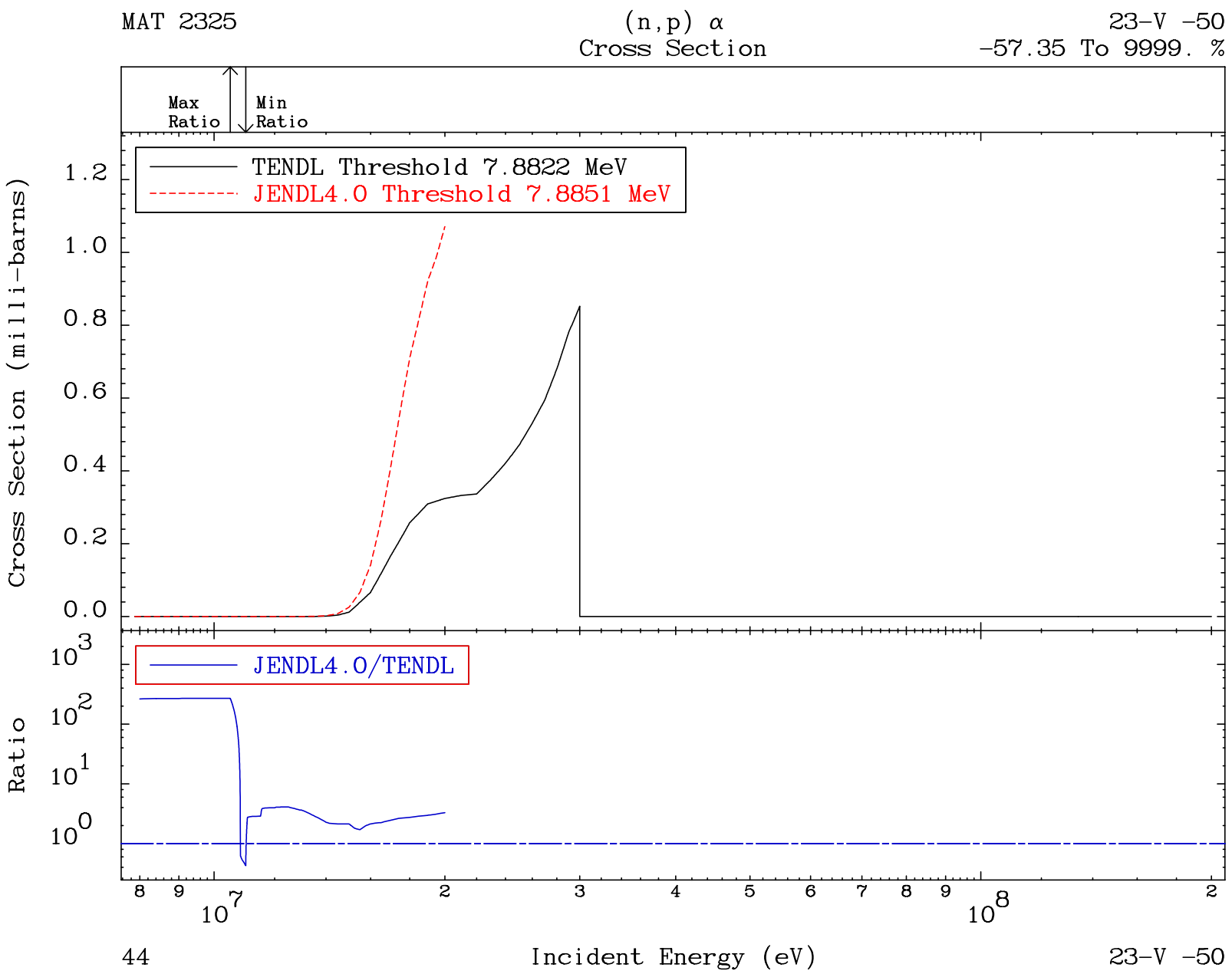

MAT 2325
(n,d)
Cross Section
23-V -50
-74.20 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.8392 MeV
JENDL4.0 Threshold 5.8428 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
23-V -50

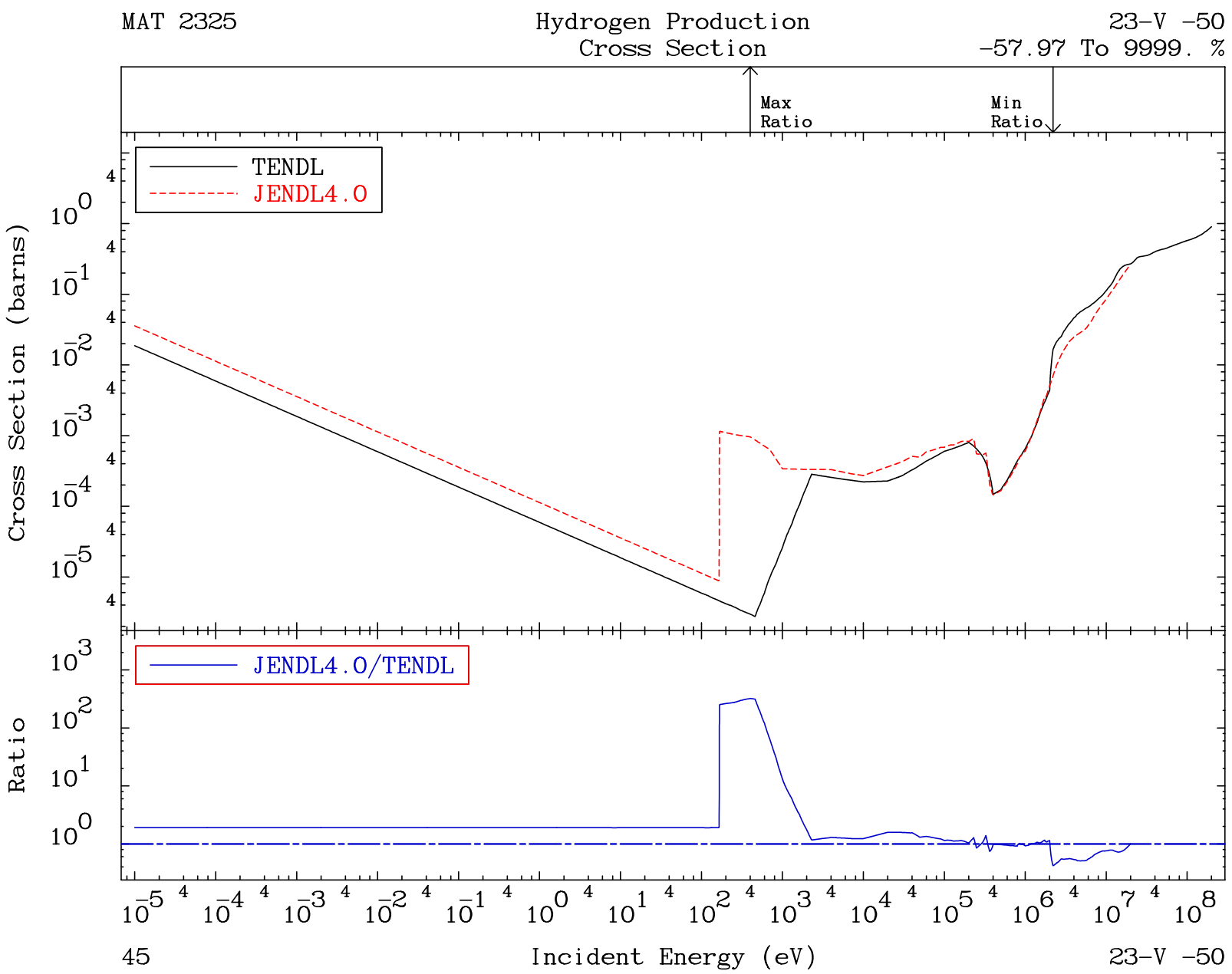

MAT 2325
(n,t)
Cross Section
23-V -50
-81.83 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.7624 MeV
JENDL4.0 Threshold 7.7660 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
40
23-V -50

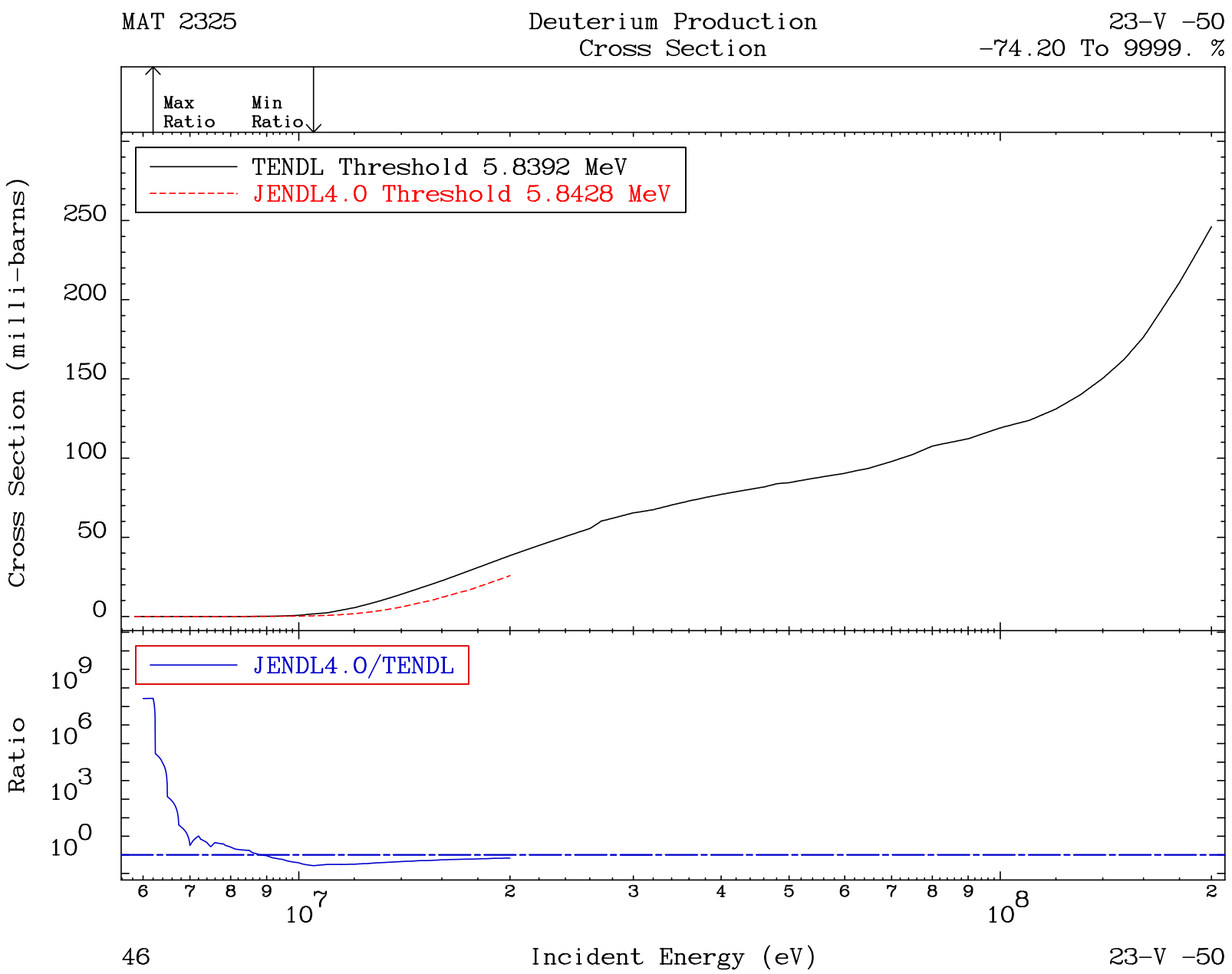

MAT 2325
(n,He-3)
Cross Section
23-V -50
-66.03 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.813 MeV
JENDL4.0 Threshold 11.819 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
23-V -50

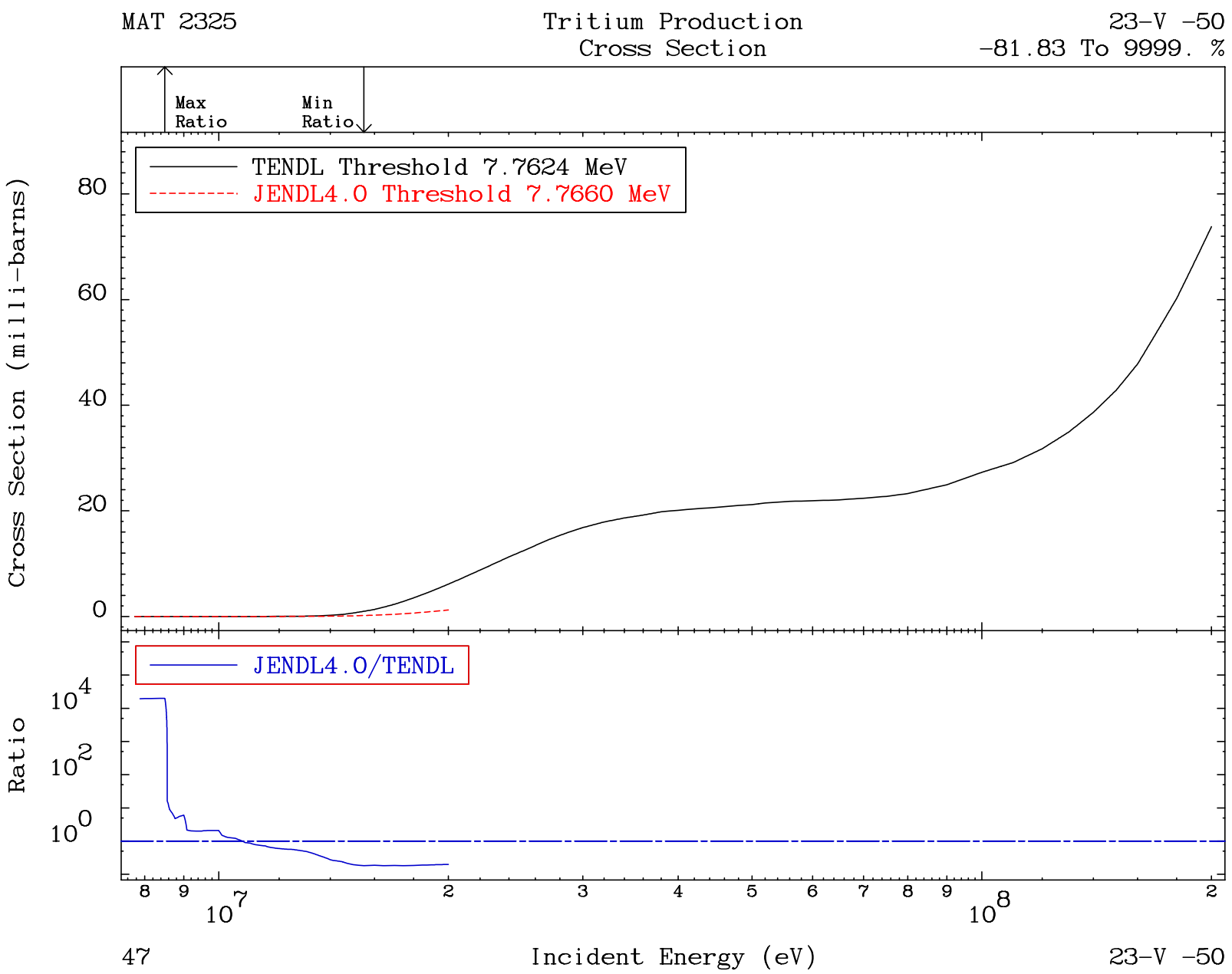

MAT 2325
(n,α)
Cross Section
23-V -50
-6.400 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 41.011 keV
JENDL4.0 Threshold 12.185 keV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
42
Incident Energy (eV)
23-V -50

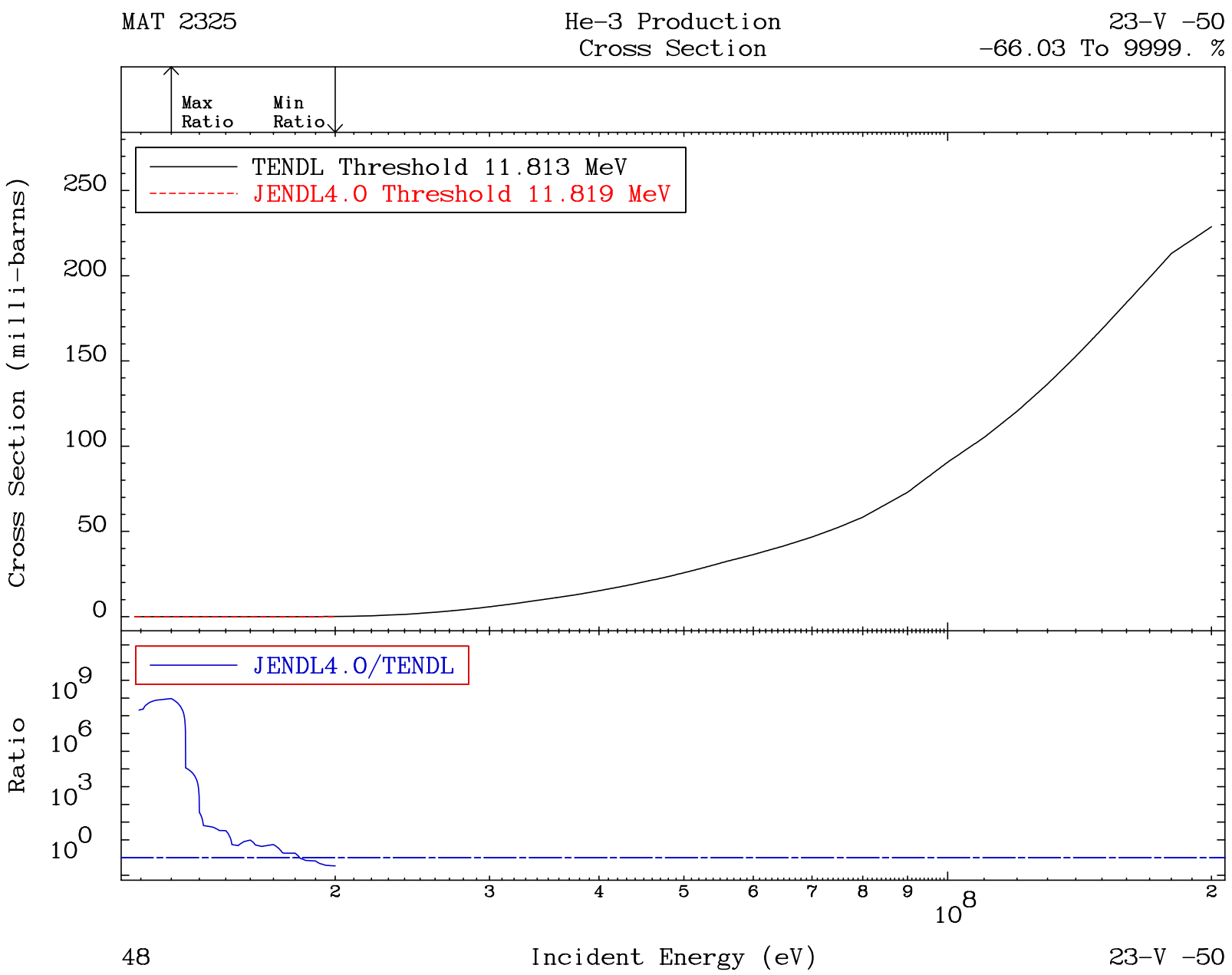

MAT 2325
(n,2p)
Cross Section
23-V -50
-63.33 To 9999. %
Min
Ratio
TENDL Threshold 9.3525 MeV
JENDL4.0 Threshold 9.3611 MeV
Cross Section (micro-barns)
600
400
200
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
23-V -50

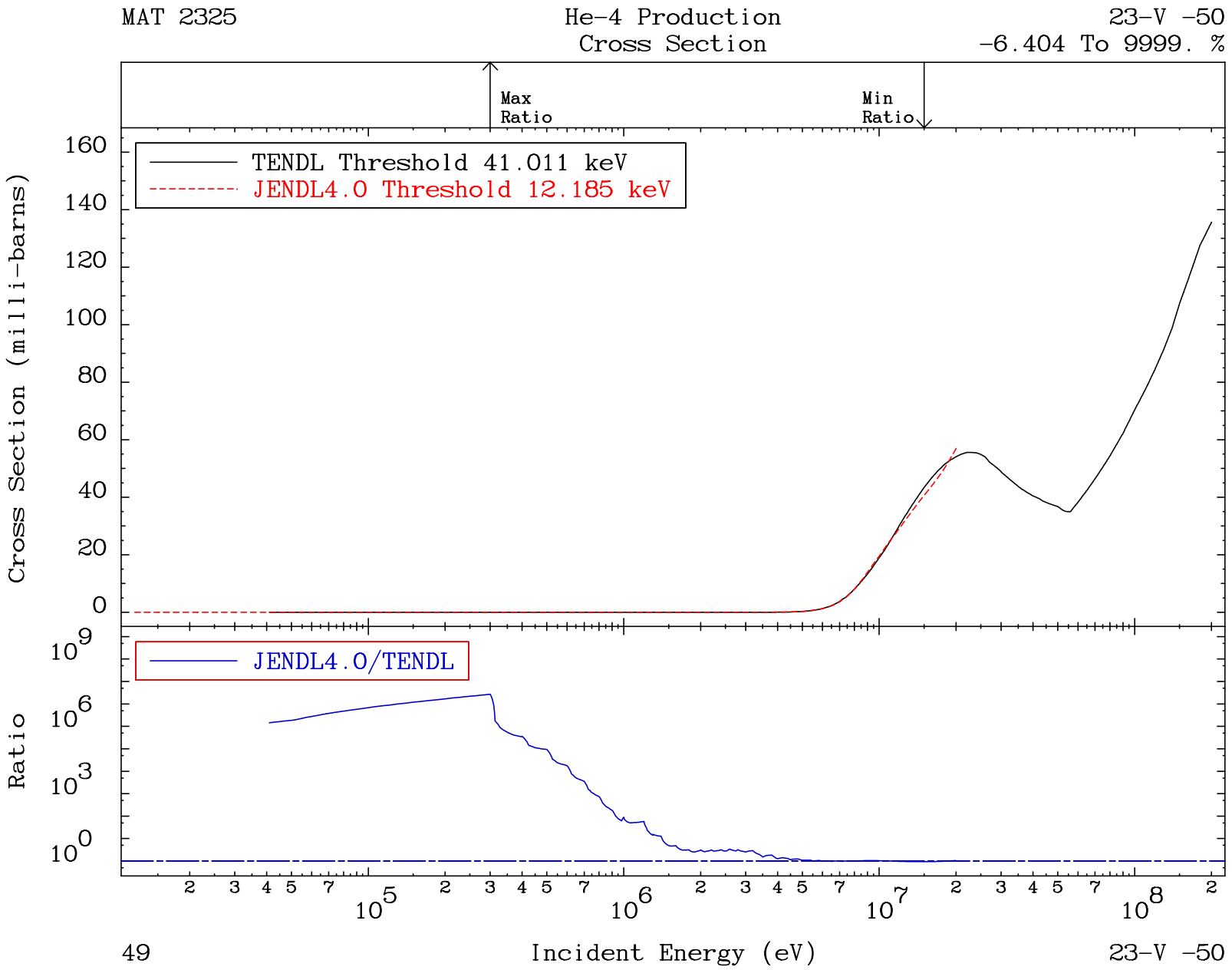

MAT 2325
(n,p) α
Cross Section
23-V -50
-57.35 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.8822 MeV
JENDL4.0 Threshold 7.8851 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
23-V -50

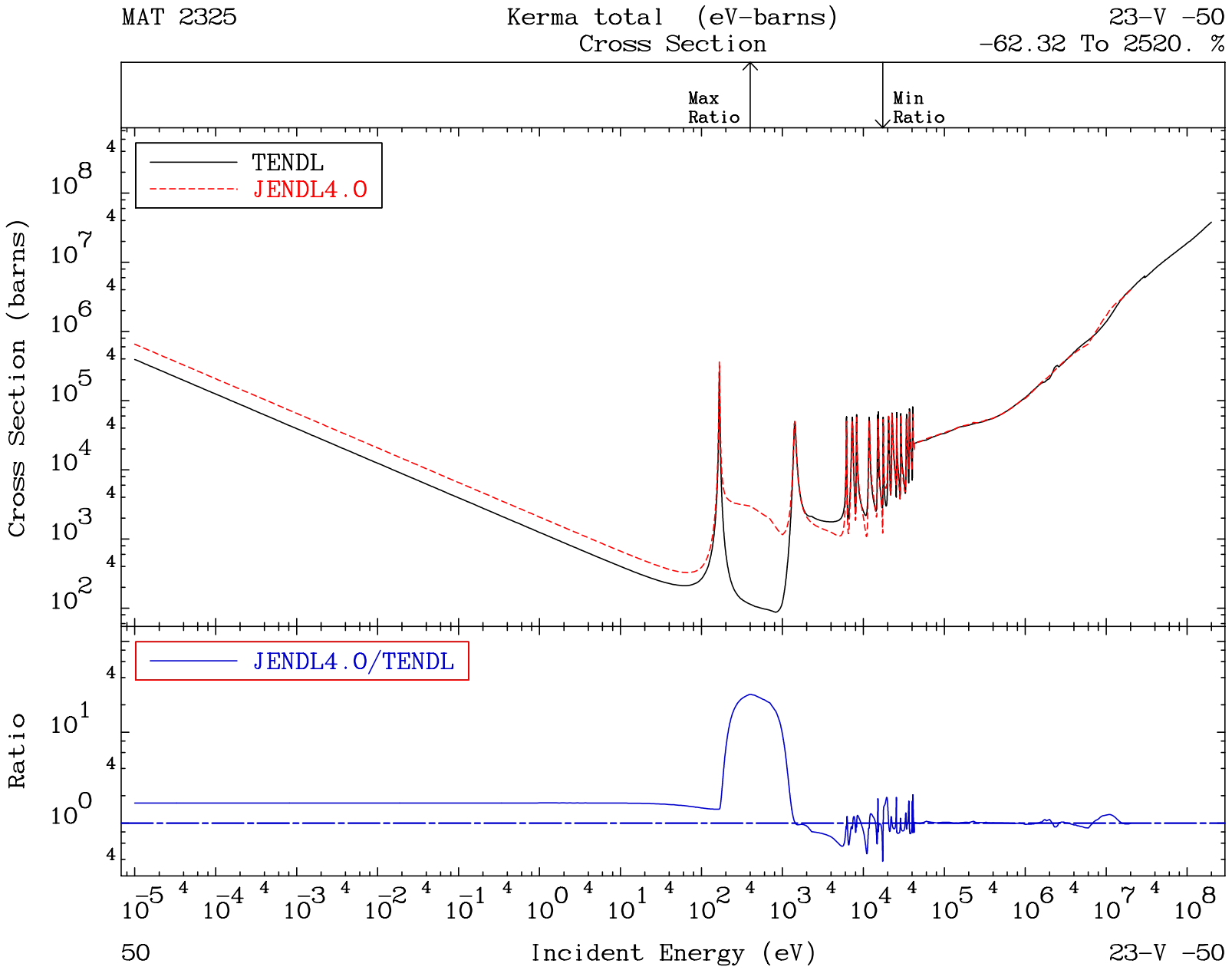

MAT 2325
Hydrogen Production
Cross Section
23-V -50
-57.97 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
45
23-V -50

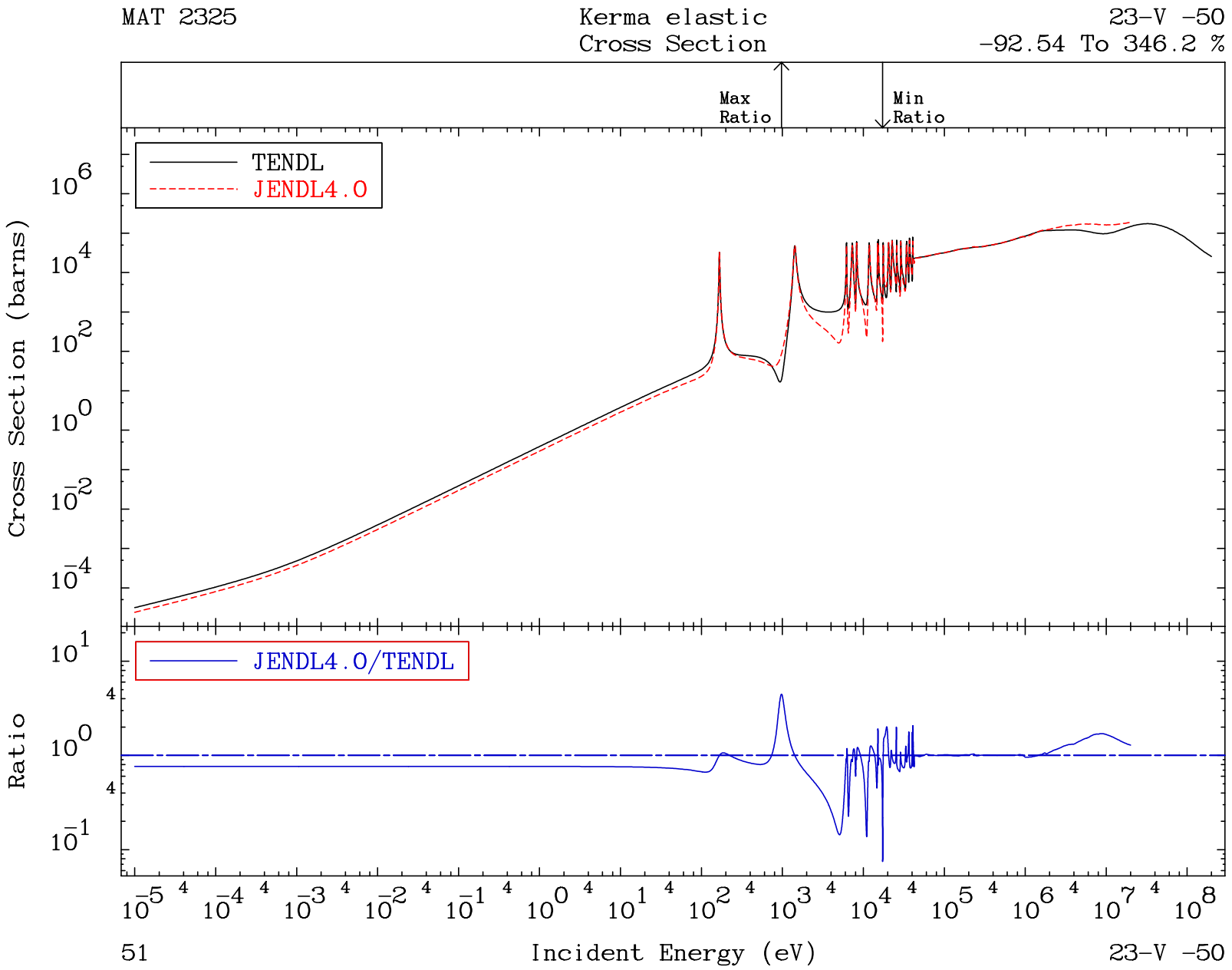

MAT 2325
Deuterium Production
Cross Section
23-V -50
-74.20 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.8392 MeV
JENDL4.0 Threshold 5.8428 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
23-V -50

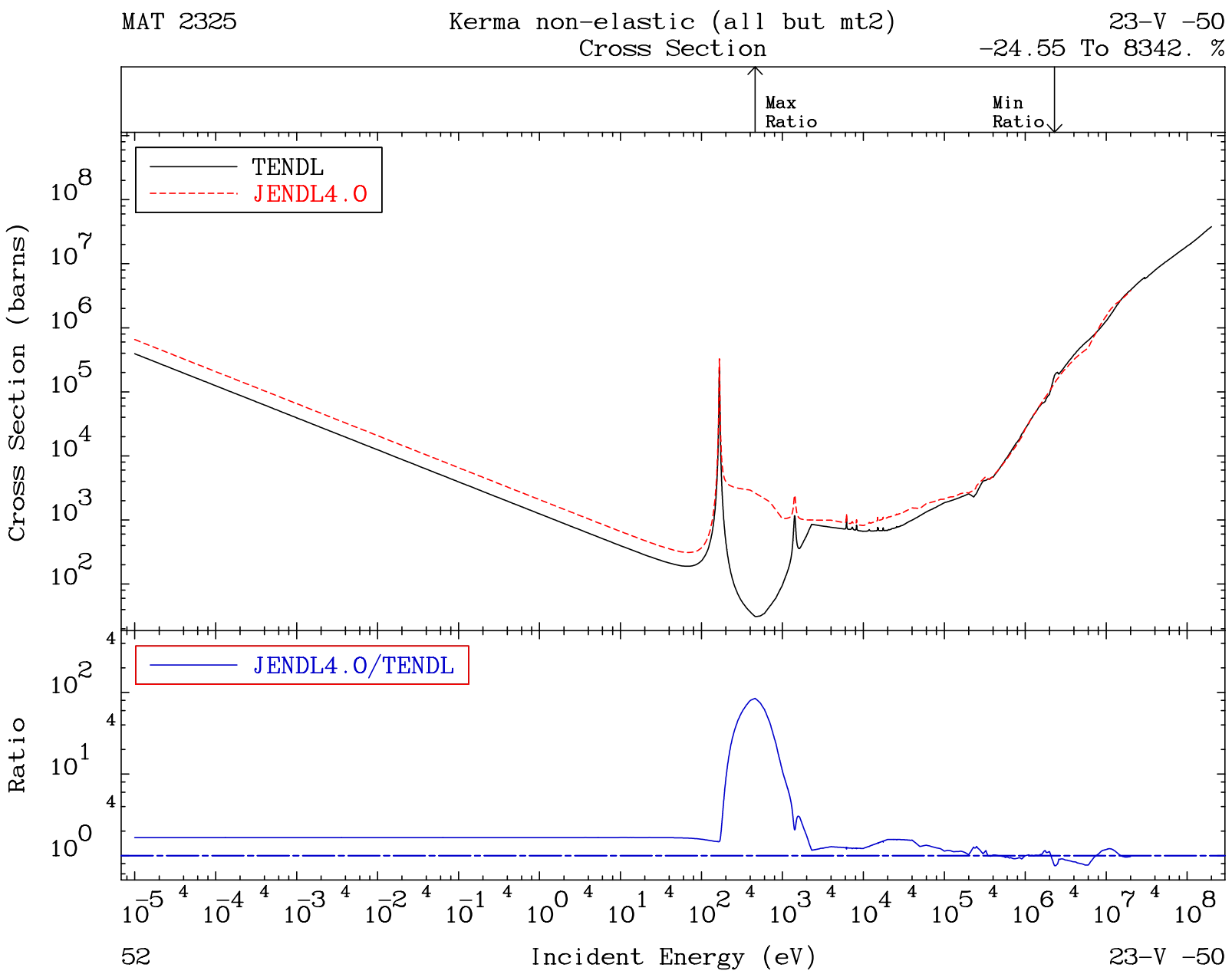

MAT 2325
Tritium Production
Cross Section
23-V -50
-81.83 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.7624 MeV
JENDL4.0 Threshold 7.7660 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
23-V -50

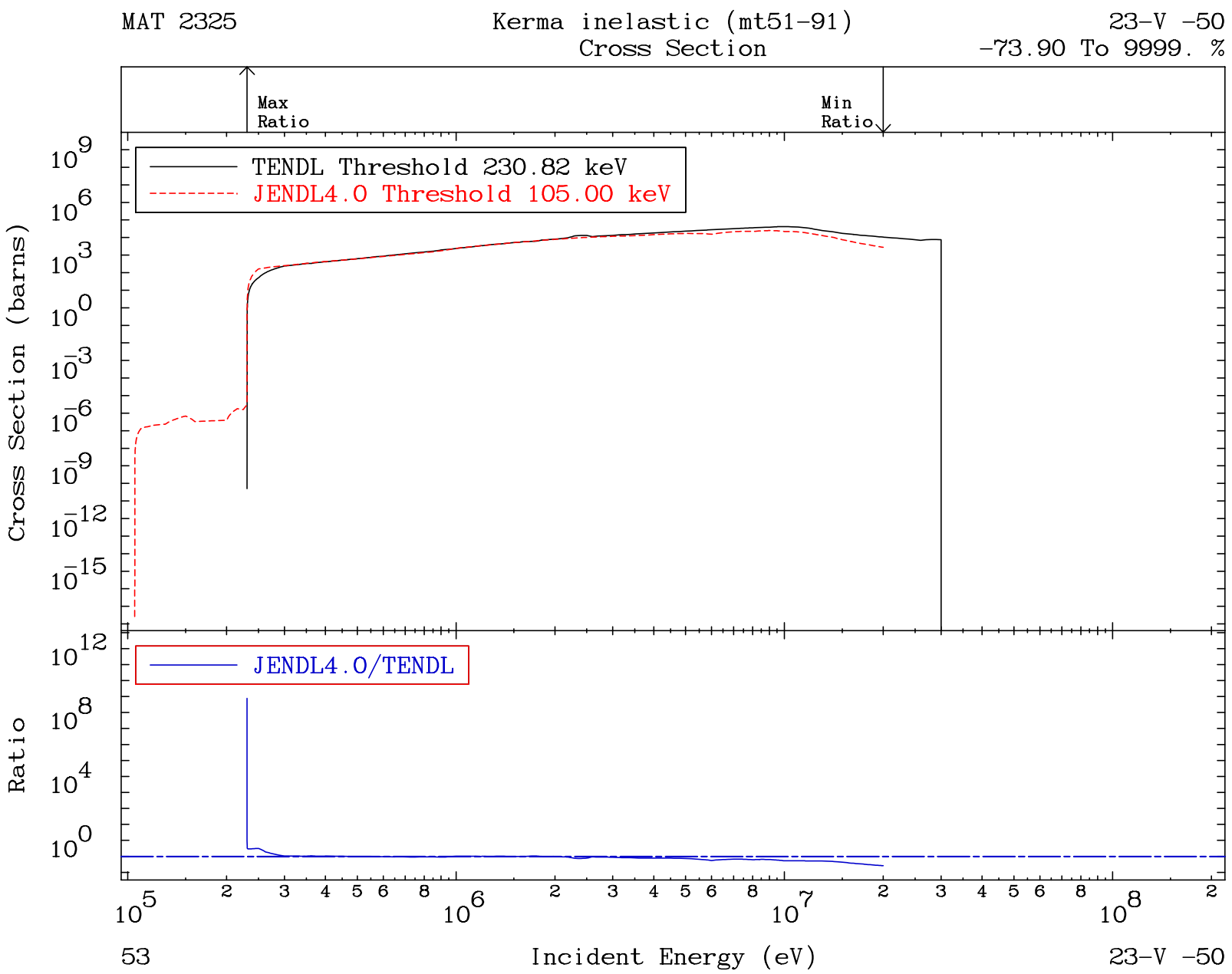

MAT 2325
He-3 Production
Cross Section
23-V -50
-66.03 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.813 MeV
JENDL4.0 Threshold 11.819 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
23-V -50

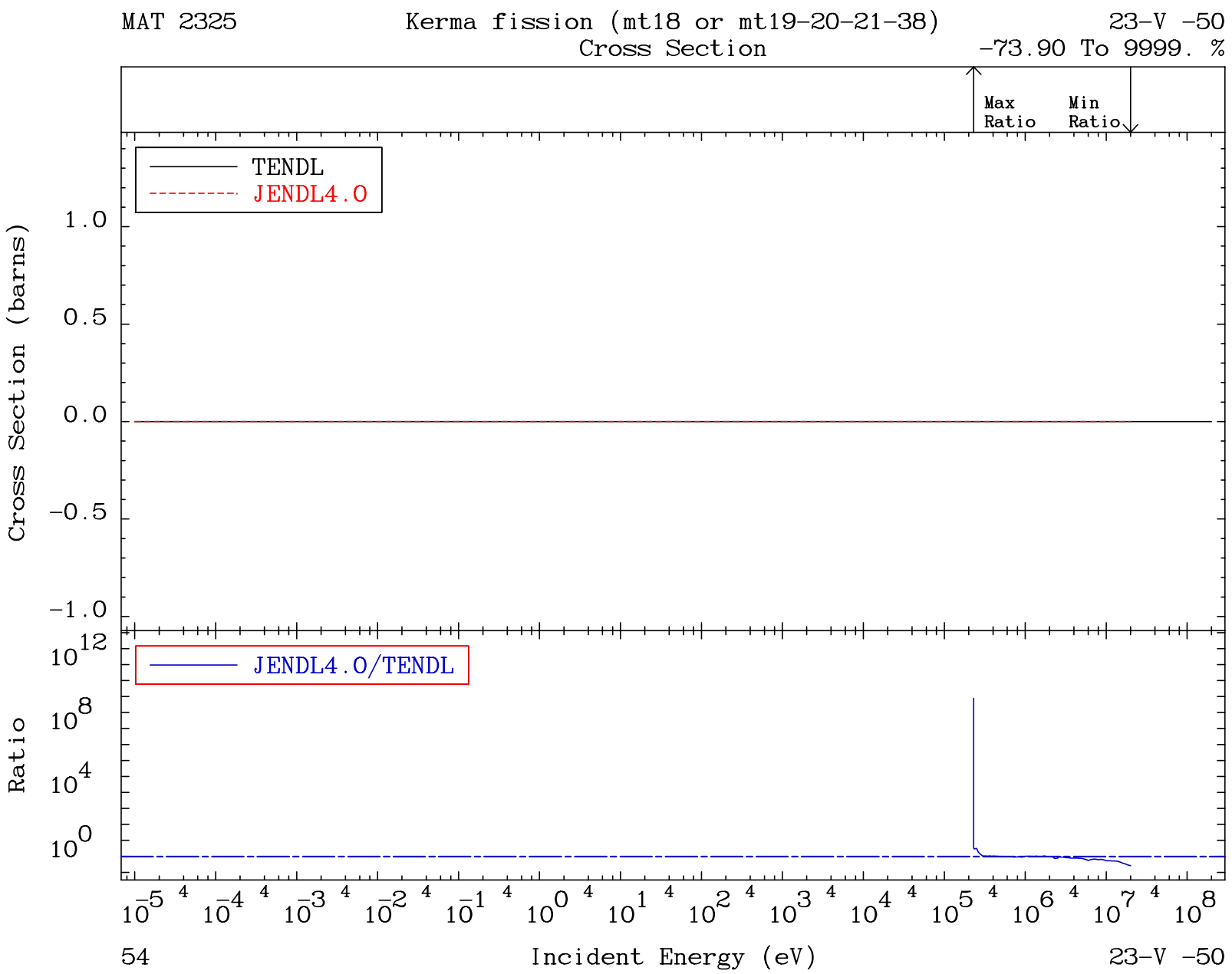

MAT 2325
He-4 Production
Cross Section
23-V -50
-6.404 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 41.011 keV
JENDL4.0 Threshold 12.185 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
49
Incident Energy (eV)
23-V -50

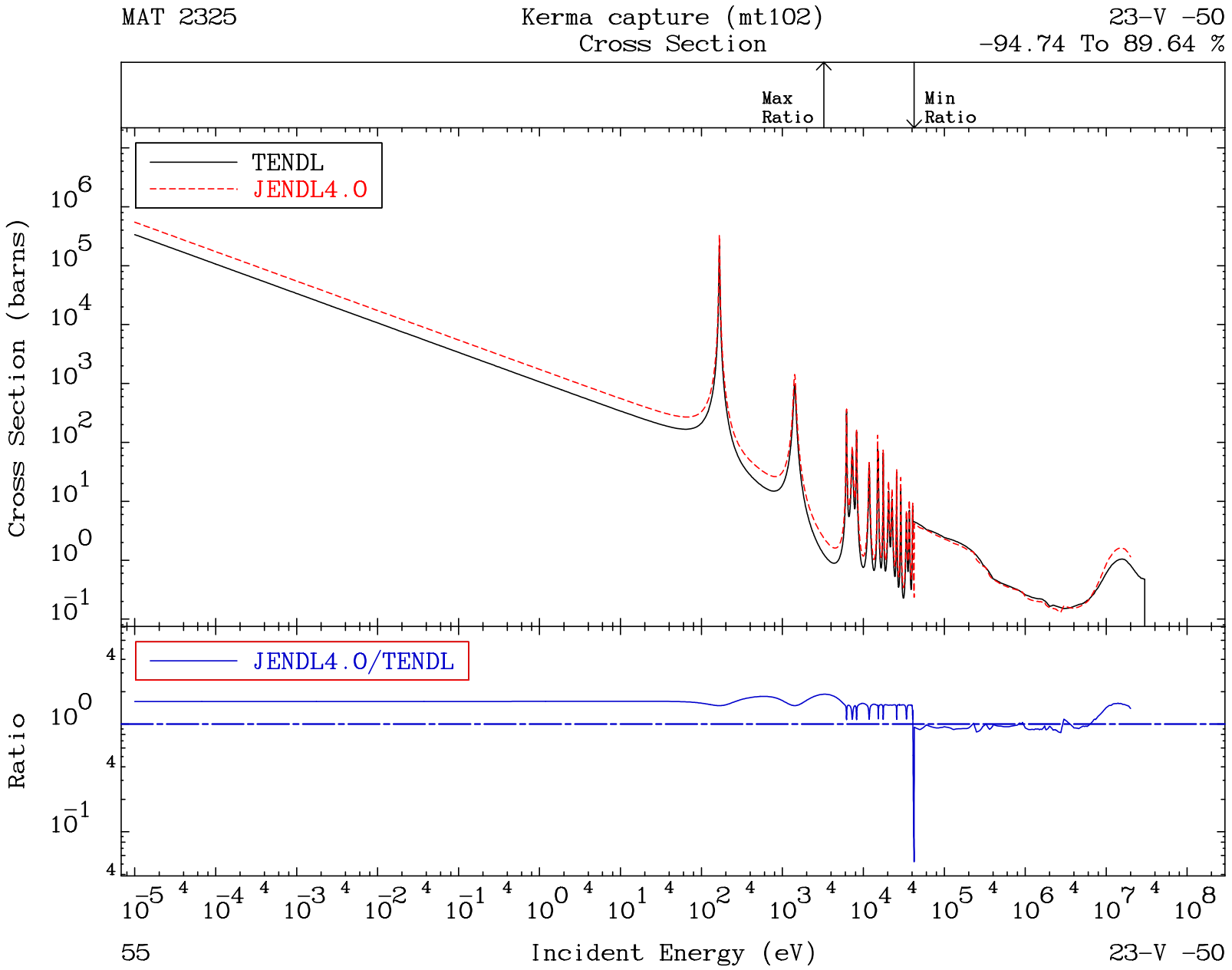

MAT 2325
Kerma total (eV-barns)
Cross Section
23-V -50
-62.32 To 2520. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
50
23-V -50

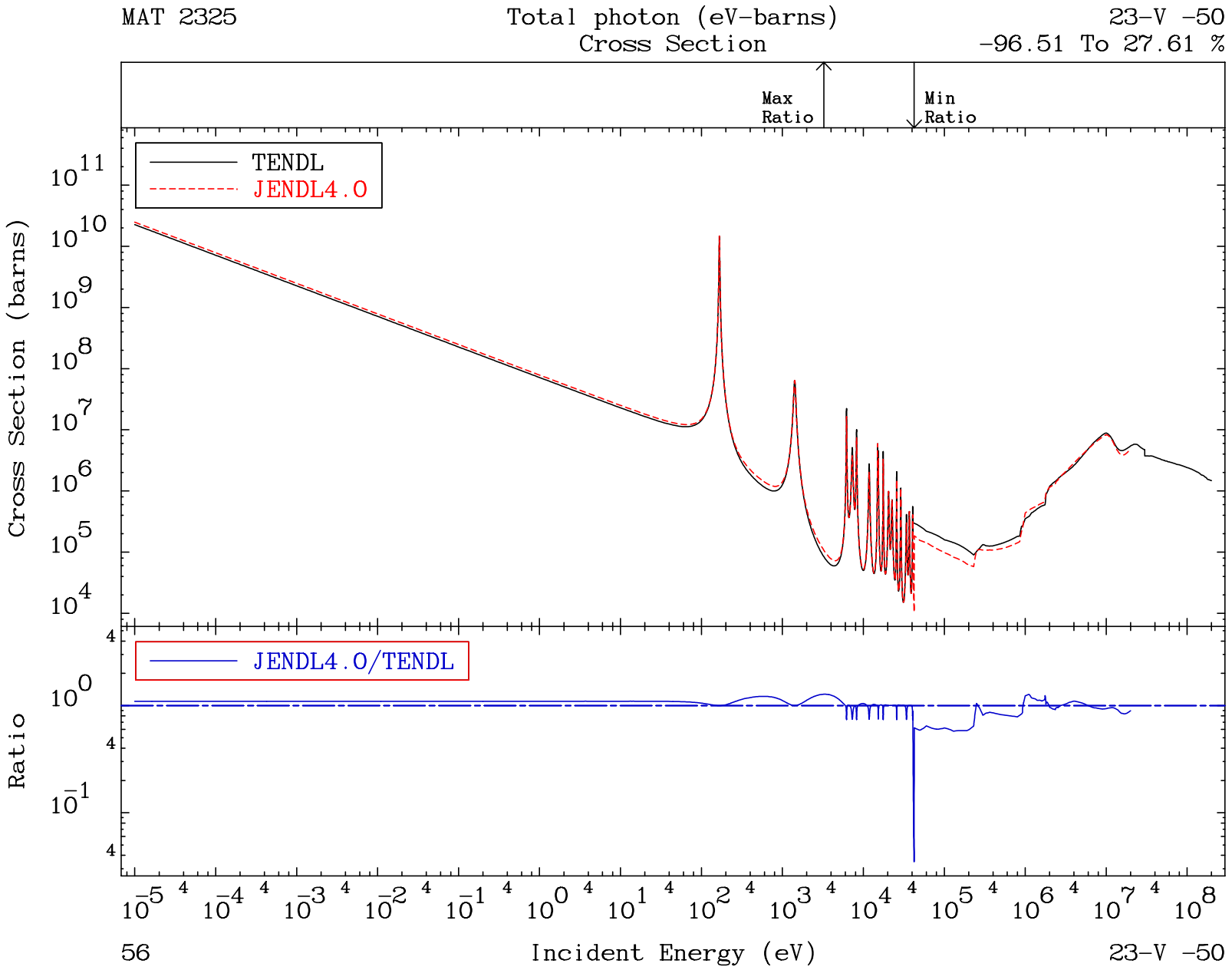

MAT 2325
Kerma elastic
Cross Section
23-V -50
-92.54 To 346.2 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
51
23-V -50

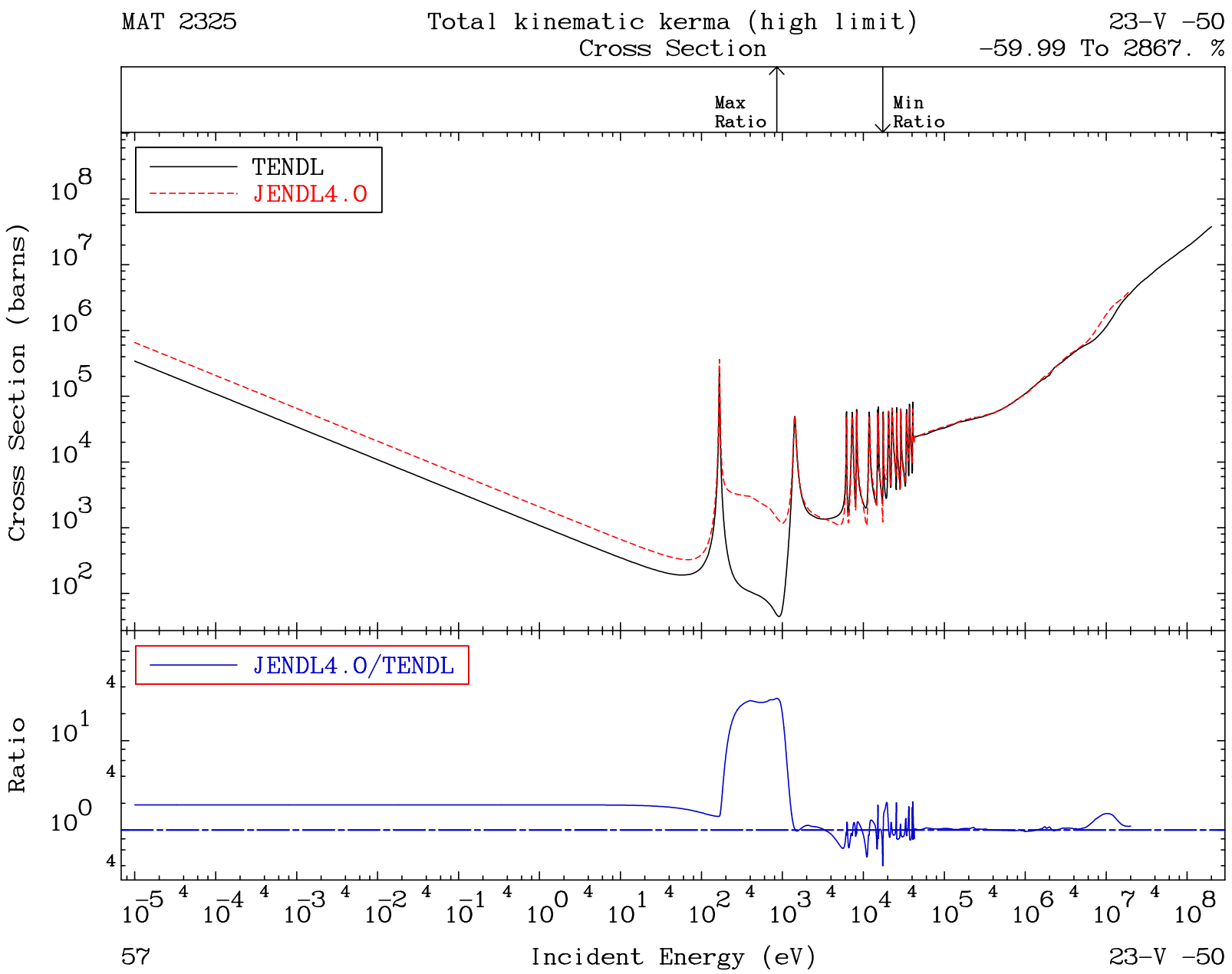

MAT 2325
Kerma non-elastic (all but mt2)
Cross Section
23-V -50
-24.55 To 8342. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
52
23-V -50

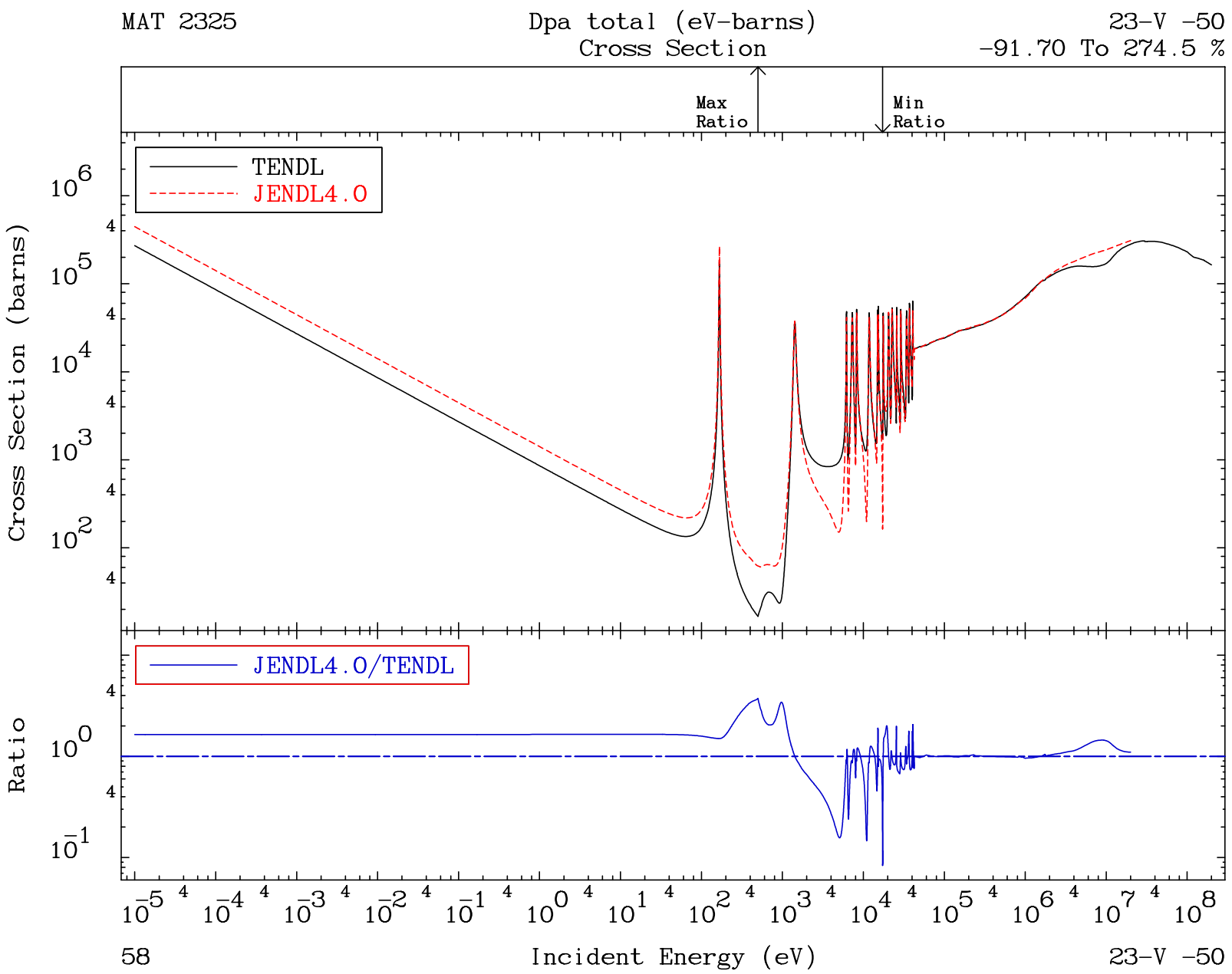

MAT 2325
Kerma inelastic (mt51-91)
Cross Section
23-V -50
-73.90 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 230.82 keV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
53
23-V -50

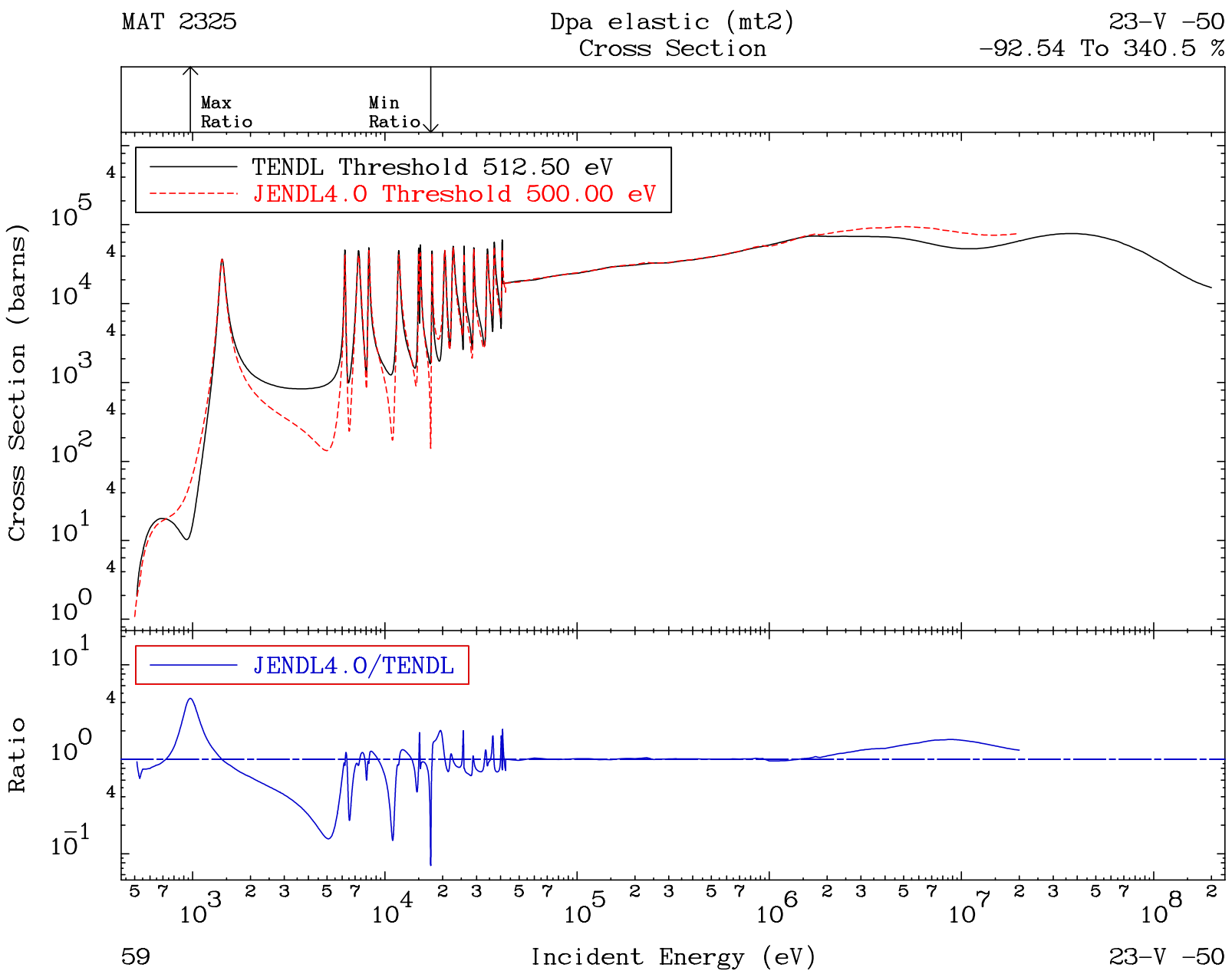

MAT 2325
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
23-V -50
-73.90 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
54
Incident Energy (eV)
23-V -50

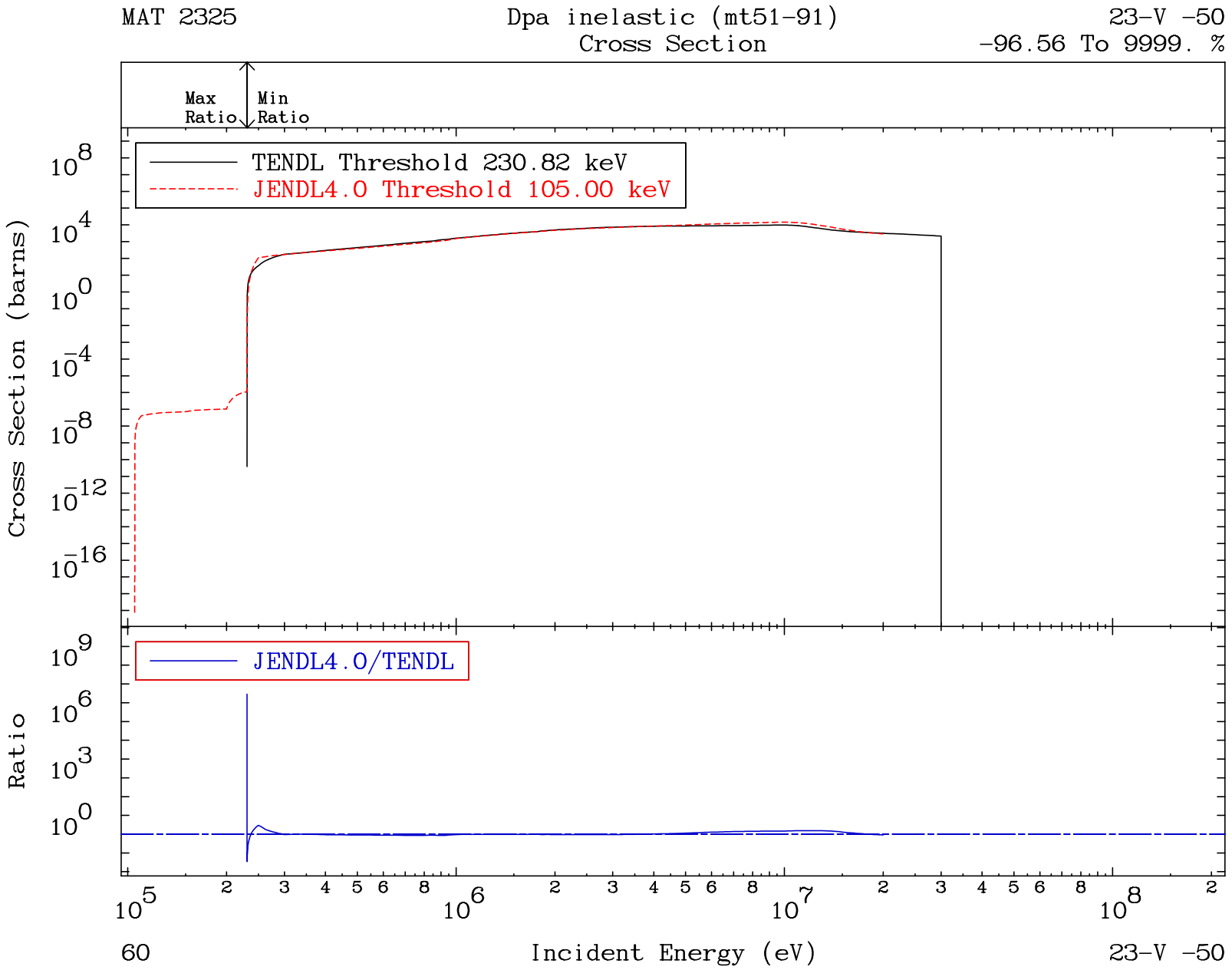

MAT 2325
Kerma capture (mt102)
Cross Section
23-V -50
-94.74 To 89.64 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
55
23-V -50

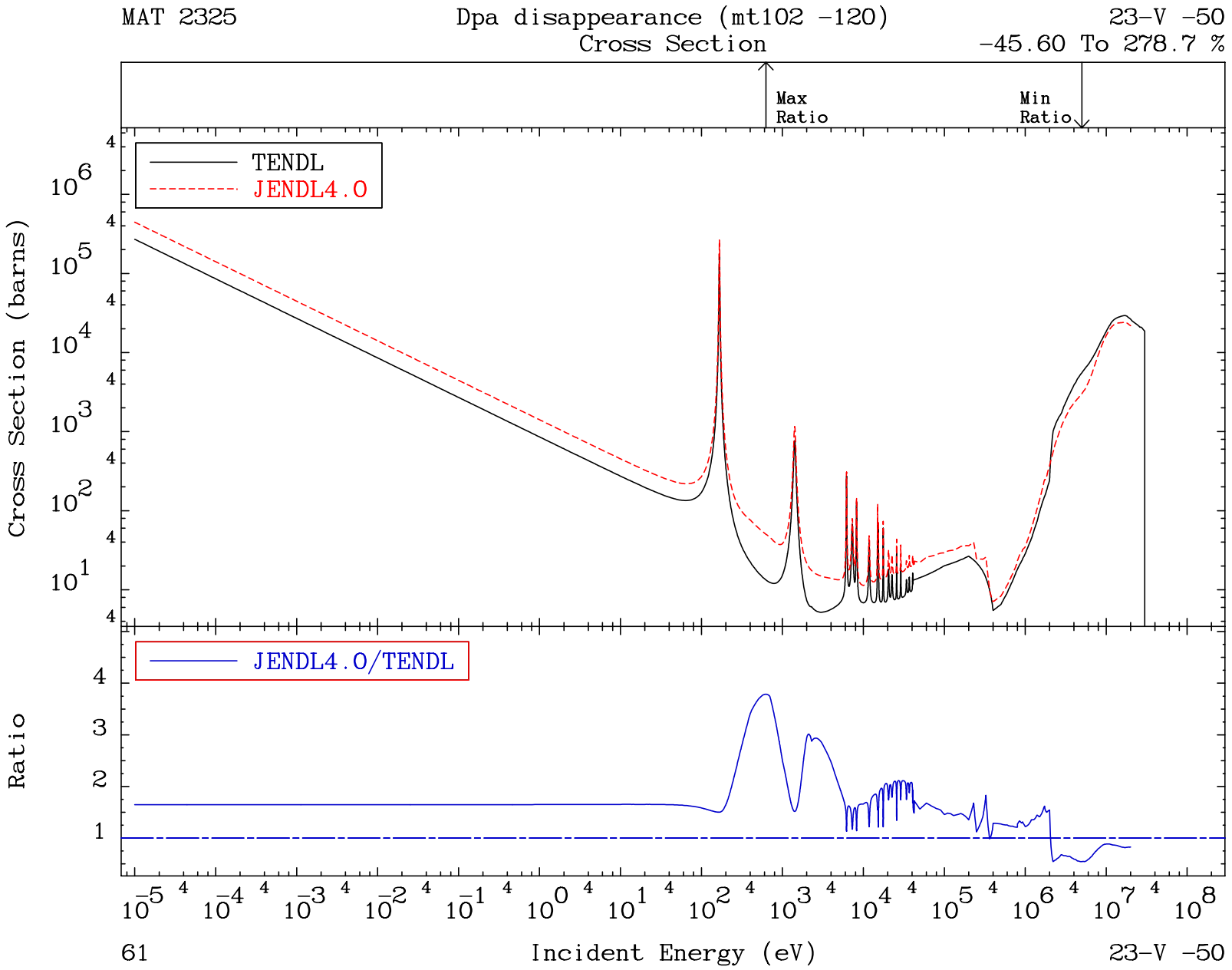

MAT 2325
Total photon (eV-barns)
Cross Section
23-V -50
-96.51 To 27.61 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
23-V -50

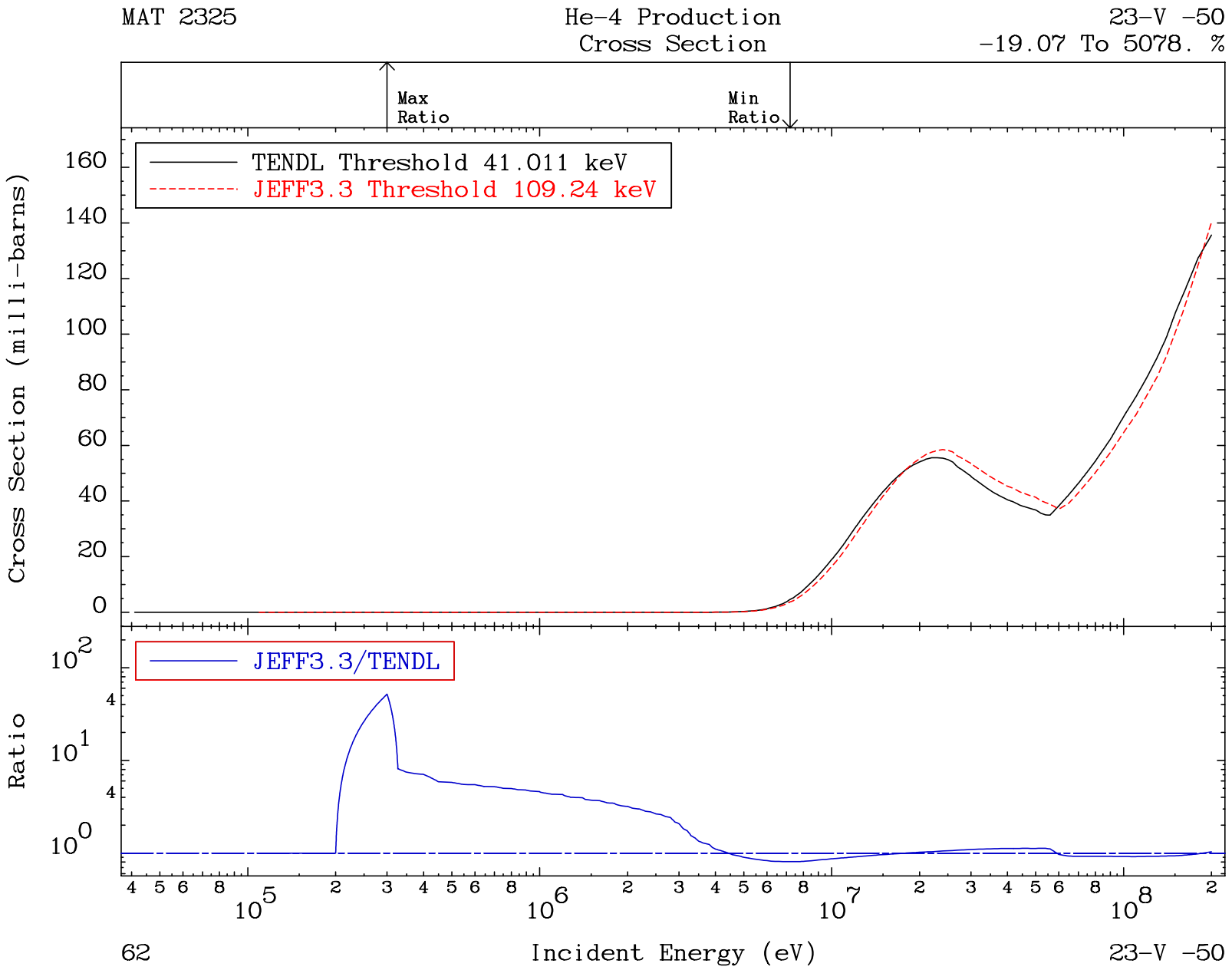

MAT 2325
Total kinematic kerma (high limit)
Cross Section
23-V -50
-59.99 To 2867. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
57
23-V -50

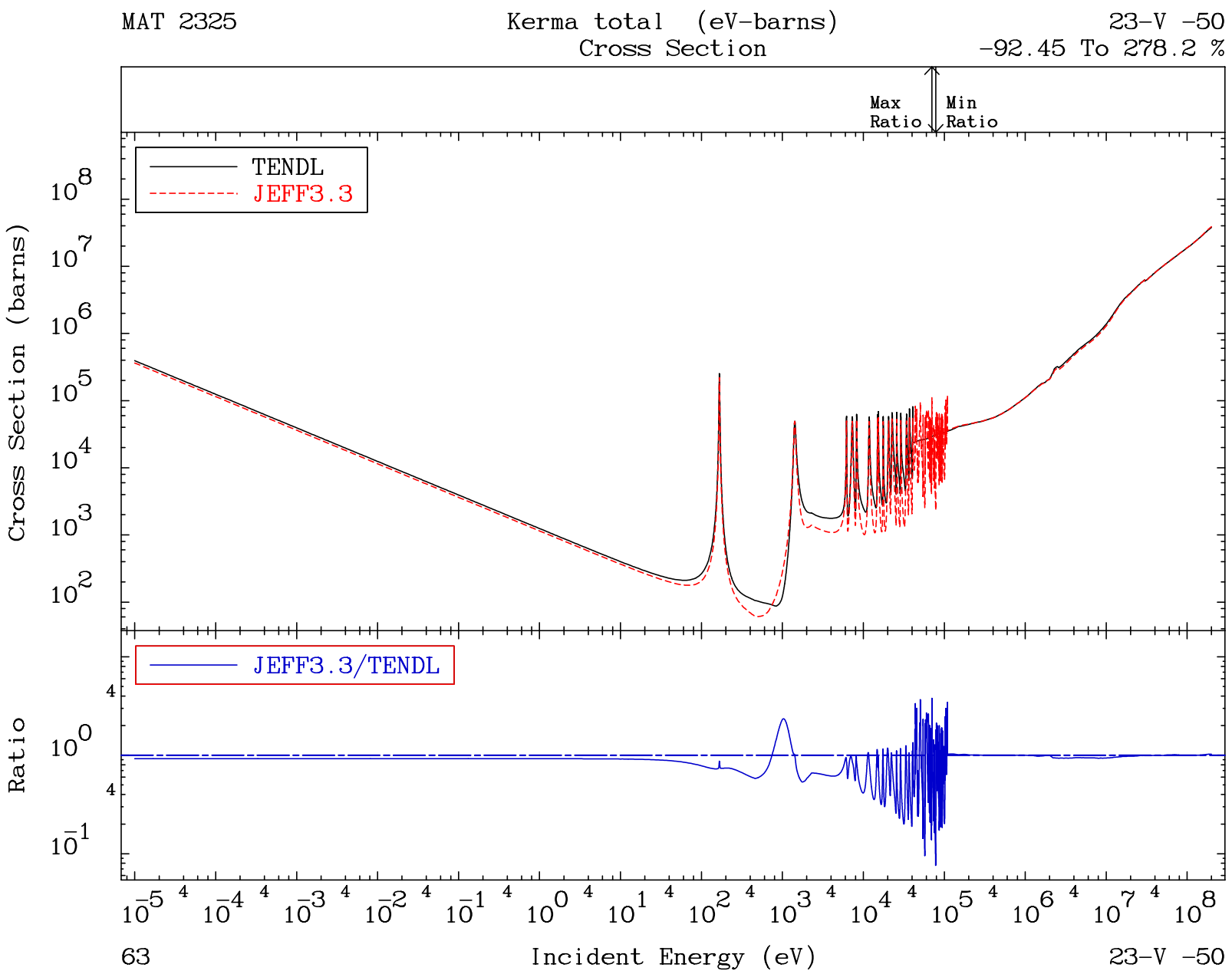

MAT 2325
Dpa total (eV-barns)
Cross Section
23-V -50
-91.70 To 274.5 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
58
23-V -50

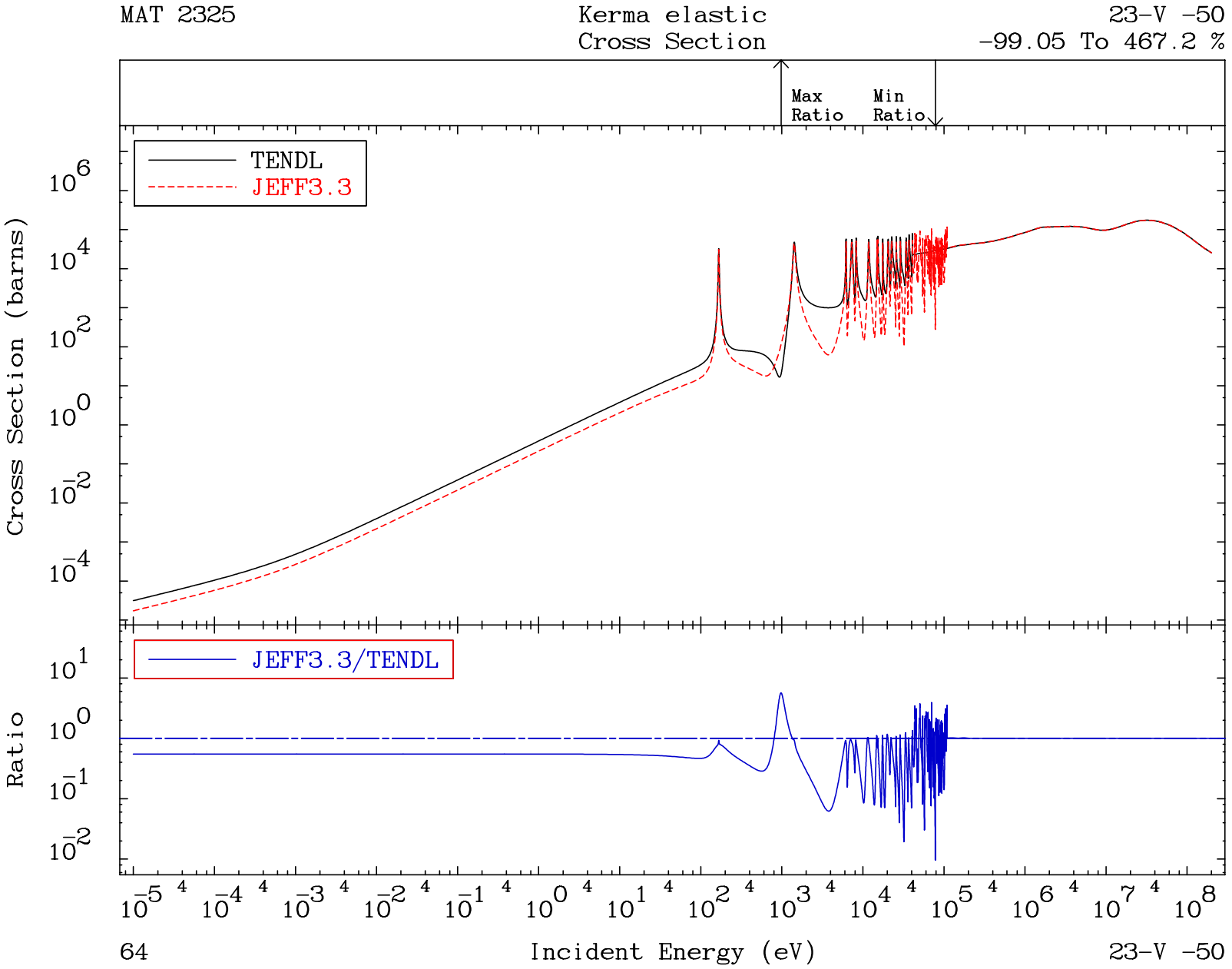

MAT 2325
Dpa elastic (mt2)
Cross Section
23-V -50
-92.54 To 340.5 %
Max Ratio
Min Ratio
TENDL Threshold 512.50 eV
JENDL4.0 Threshold 500.00 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
59
23-V -50

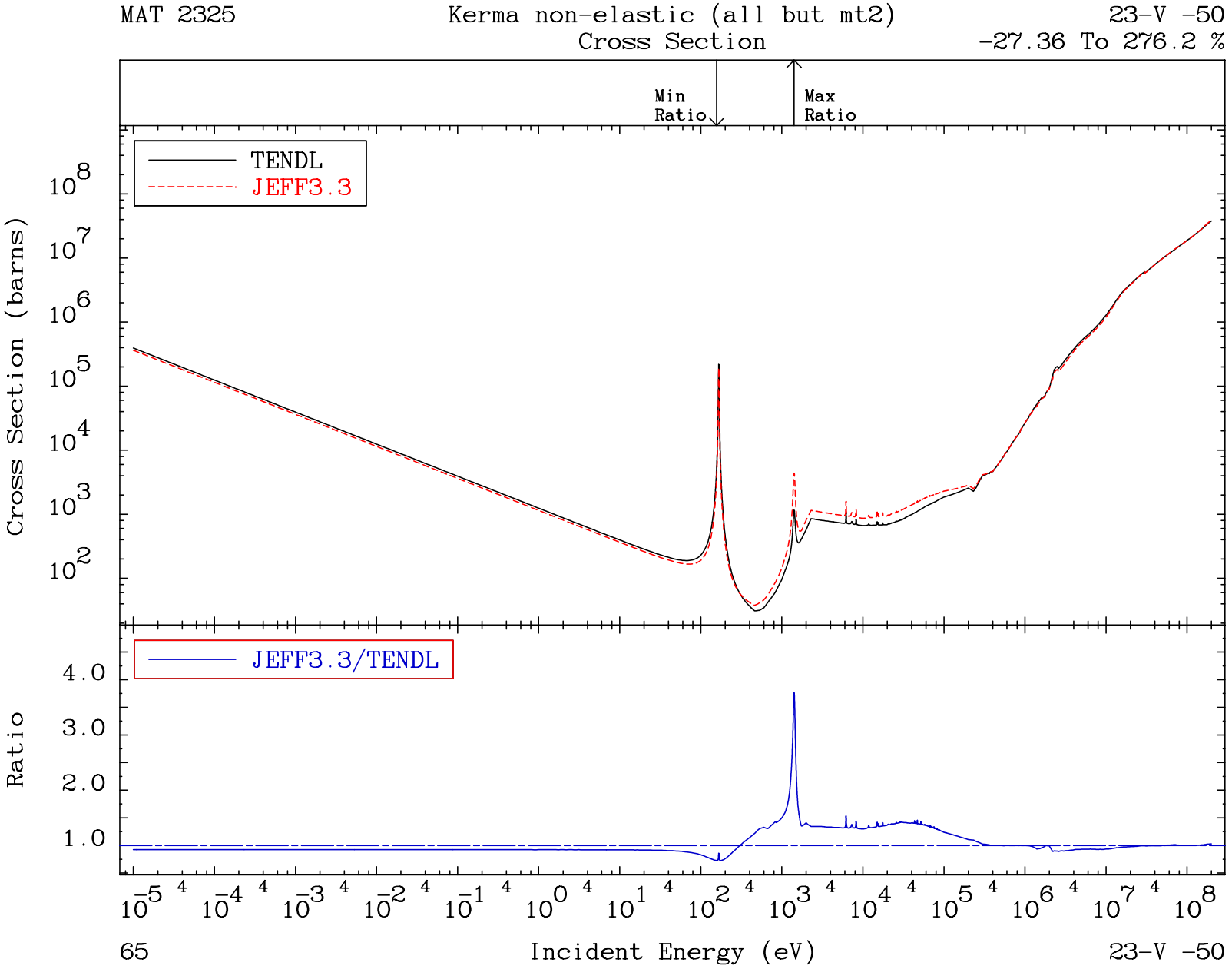

MAT 2325
Dpa inelastic (mt51-91)
Cross Section
23-V -50
-96.56 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 230.82 keV
JENDL4.0 Threshold 105.00 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
60
23-V -50

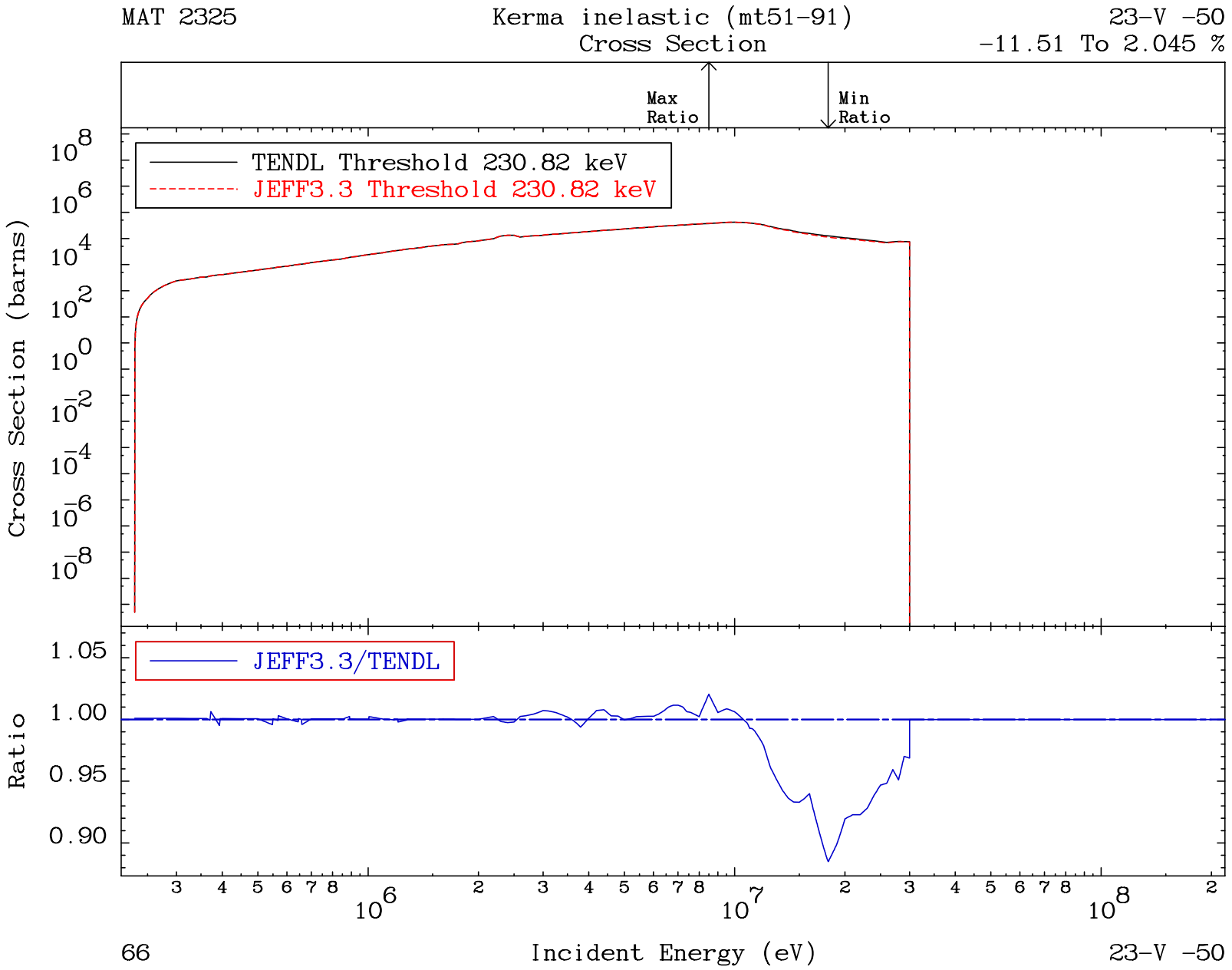

MAT 2325
Dpa disappearance (mt102 -120)
Cross Section
23-V -50
-45.60 To 278.7 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
61
23-V -50

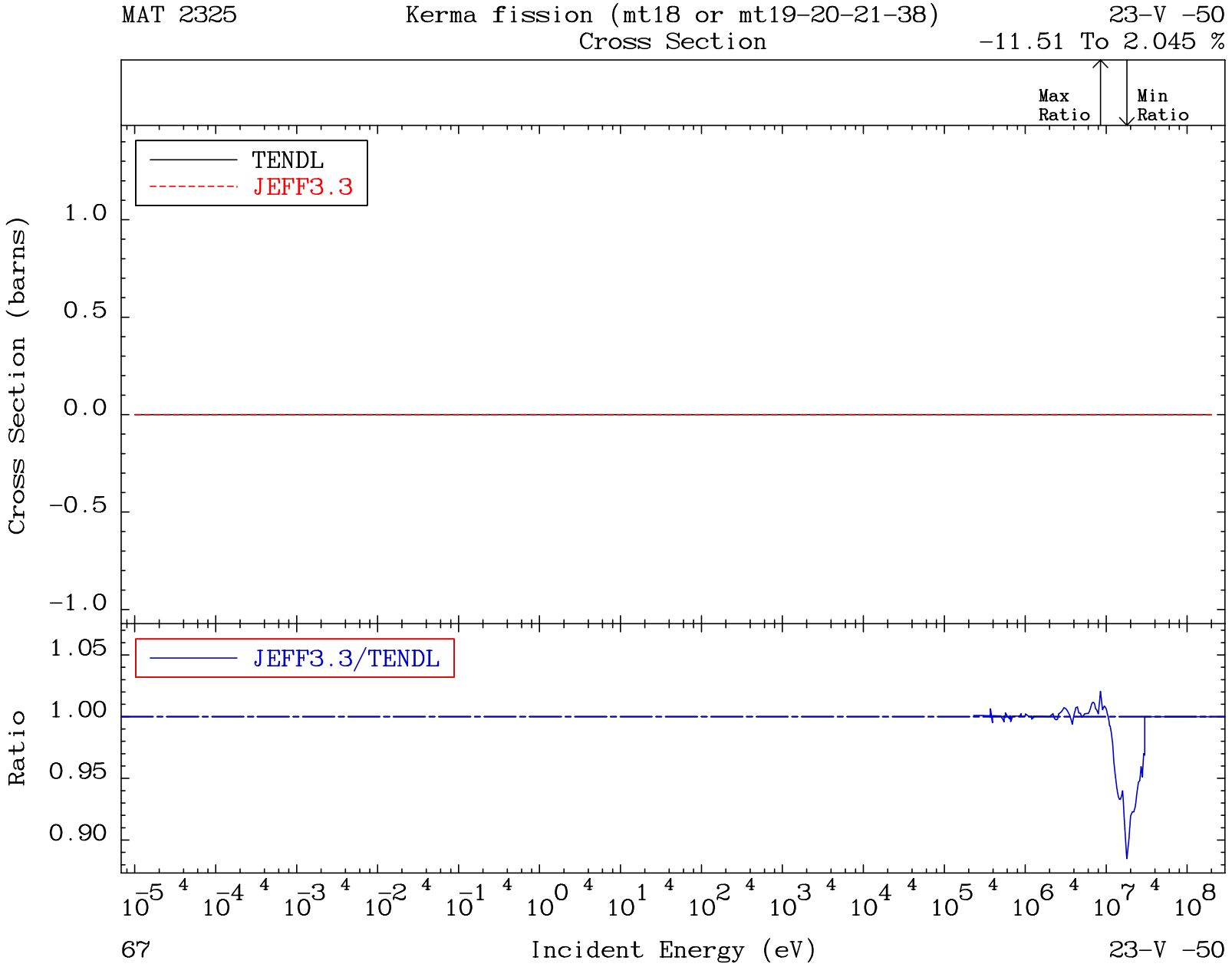

MAT 2325
He-4 Production
Cross Section
23-V -50
-19.07 To 5078. %
Max
Ratio
Min
Ratio
TENDL Threshold 41.011 keV
JEFF3.3 Threshold 109.24 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
10^5
10^6
10^7
10^8
62
Incident Energy (eV)
23-V -50

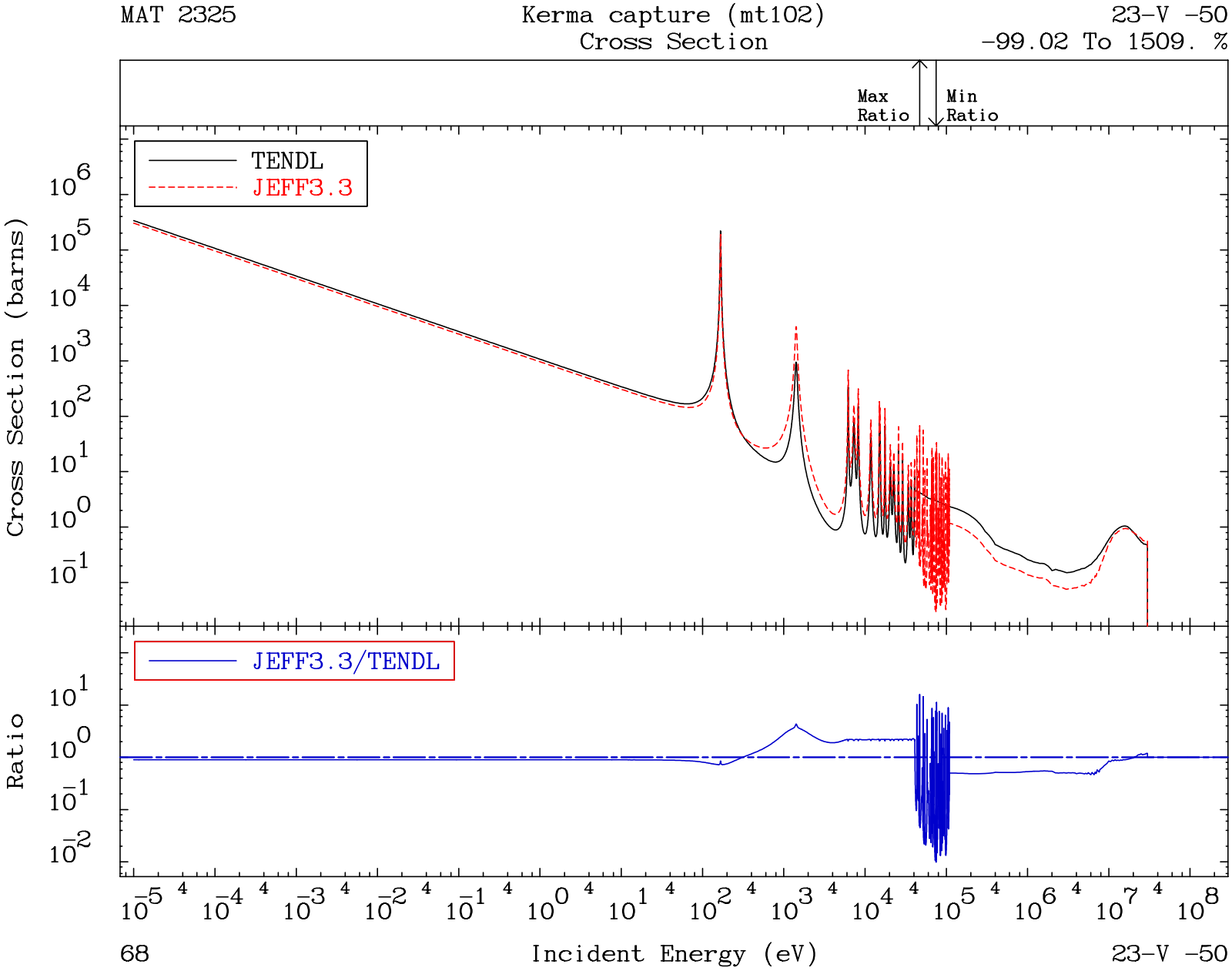

MAT 2325
Kerma total (eV-barns)
Cross Section
23-V -50
-92.45 To 278.2 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
23-V -50

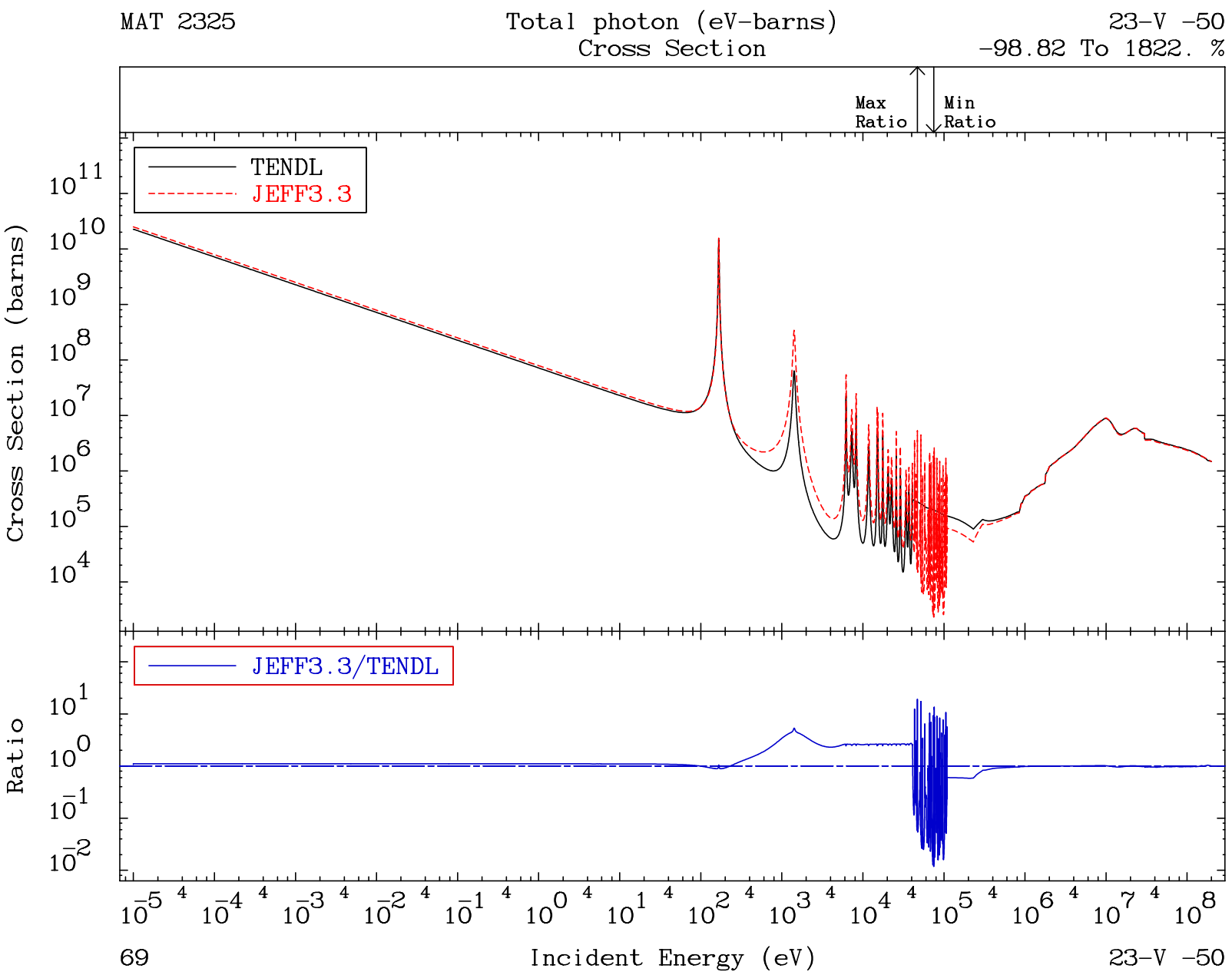

MAT 2325
Kerma elastic
Cross Section
23-V -50
-99.05 To 467.2 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
23-V -50

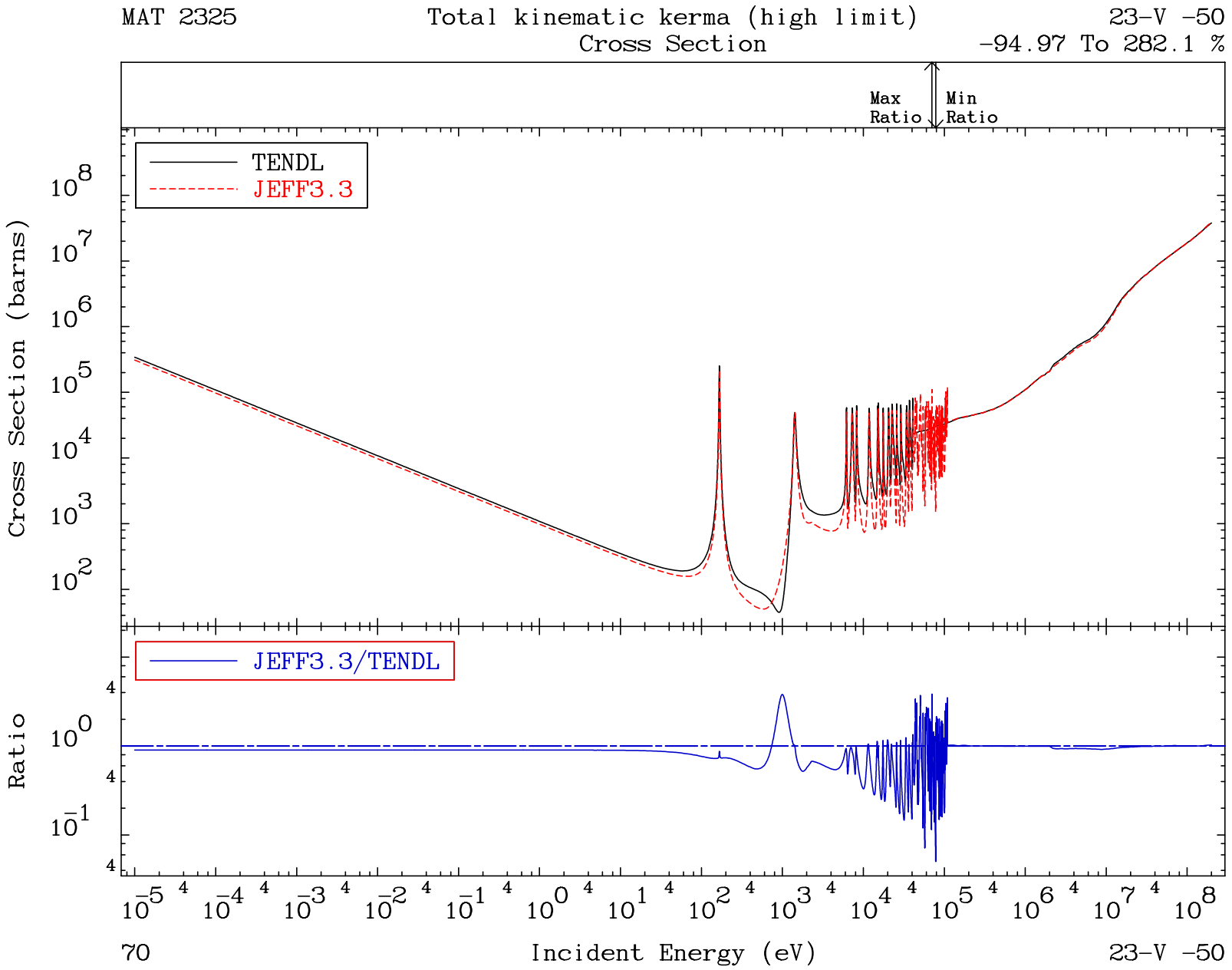

MAT 2325
Kerma non-elastic (all but mt2)
Cross Section
23-V -50
-27.36 To 276.2 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
23-V -50

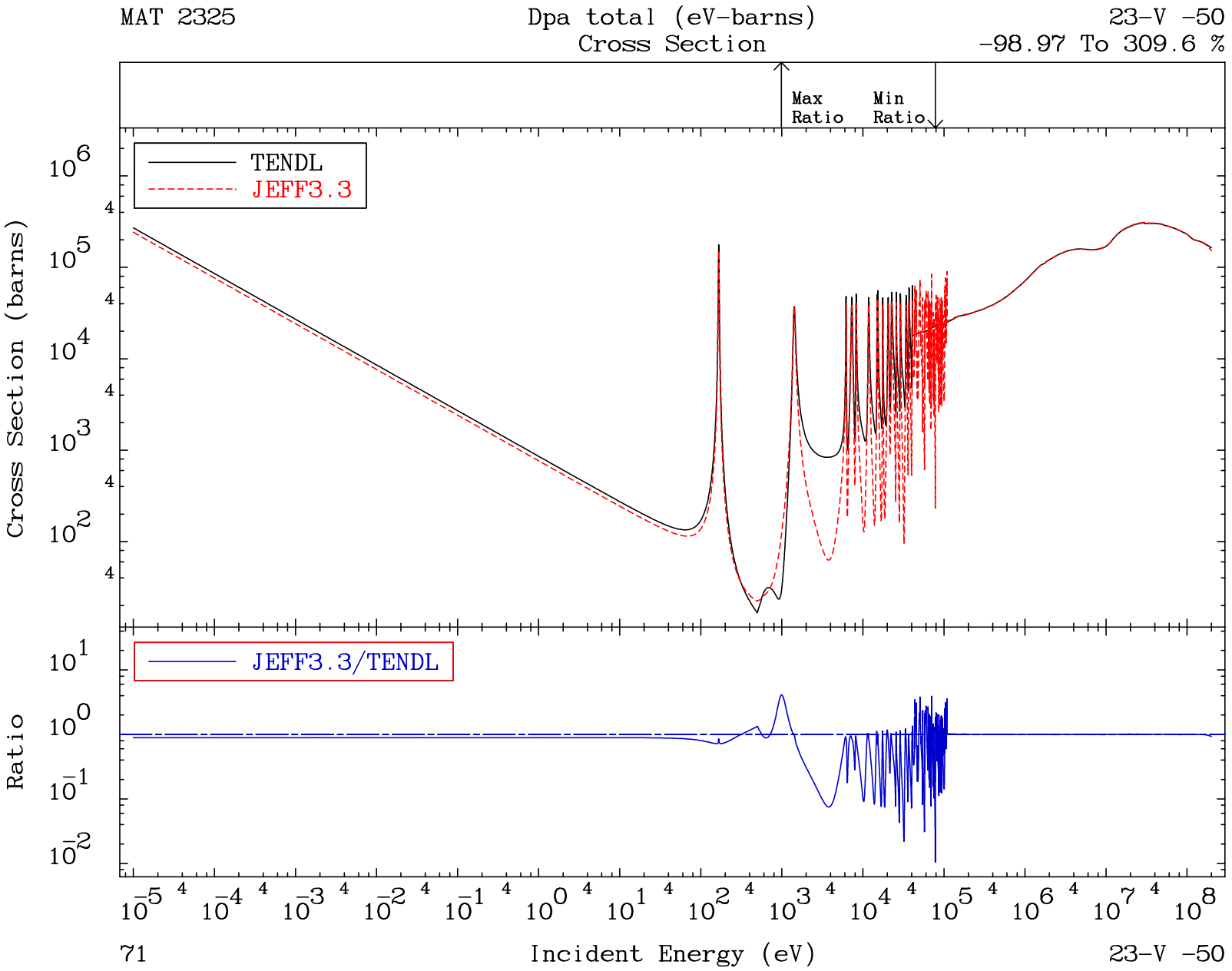

MAT 2325
Kerma inelastic (mt51-91)
Cross Section
23-V -50
-11.51 To 2.045 %
Max Ratio
Min Ratio
TENDL Threshold 230.82 keV
JEFF3.3 Threshold 230.82 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
23-V -50

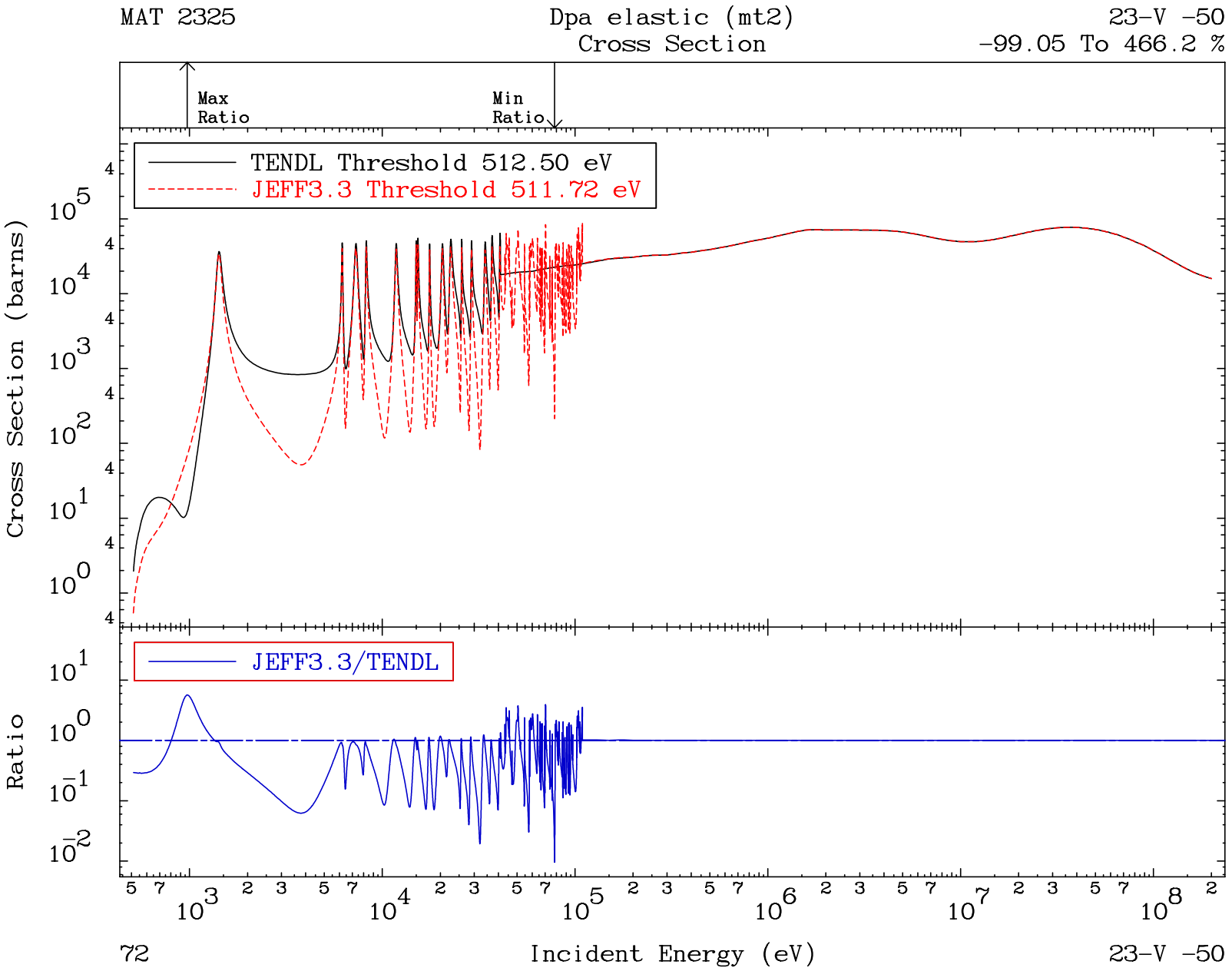

MAT 2325
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
23-V -50
-11.51 To 2.045 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
0.90
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
67
Incident Energy (eV)
23-V -50

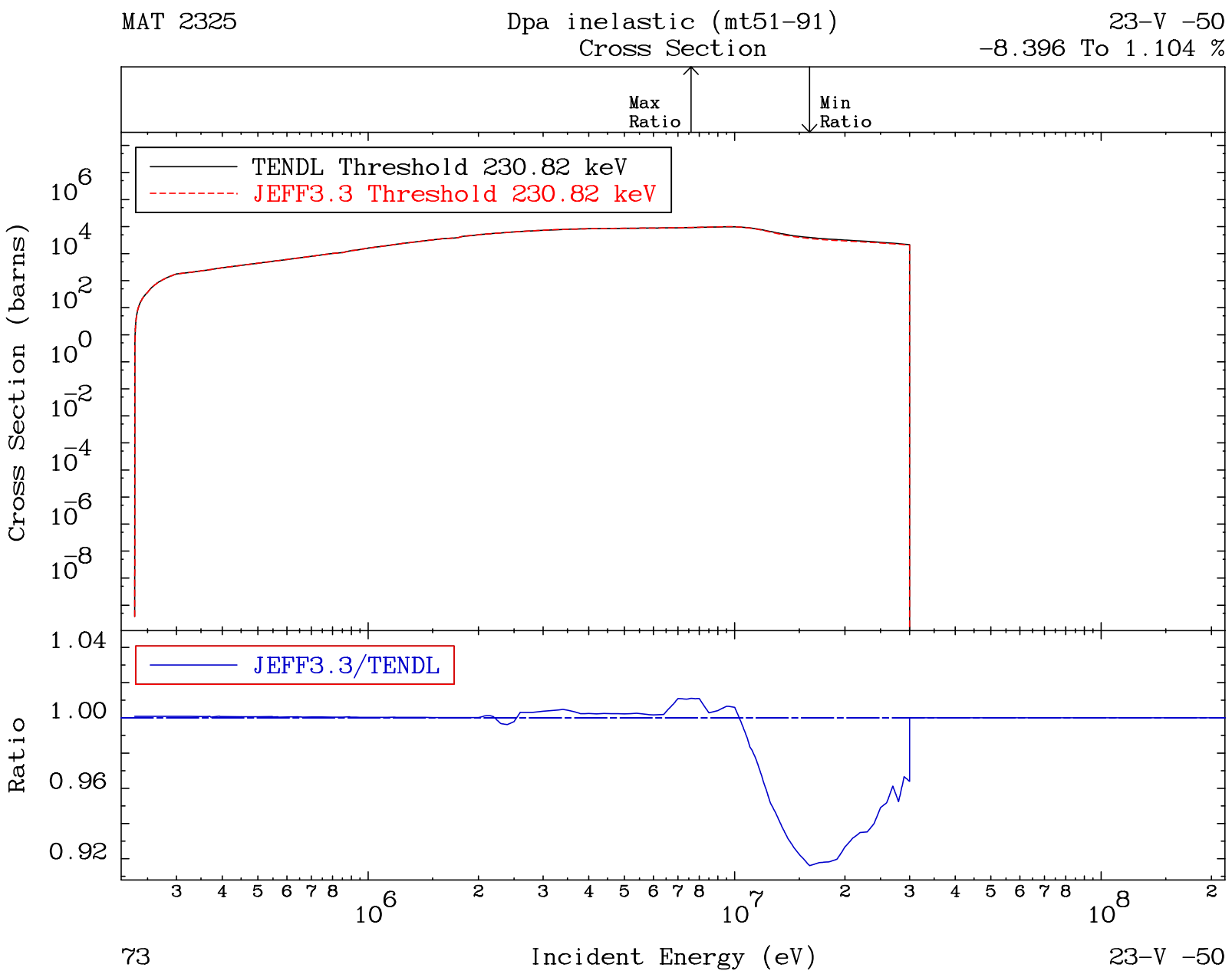

MAT 2325
Kerma capture (mt102)
Cross Section
23-V -50
-99.02 To 1509. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
23-V -50

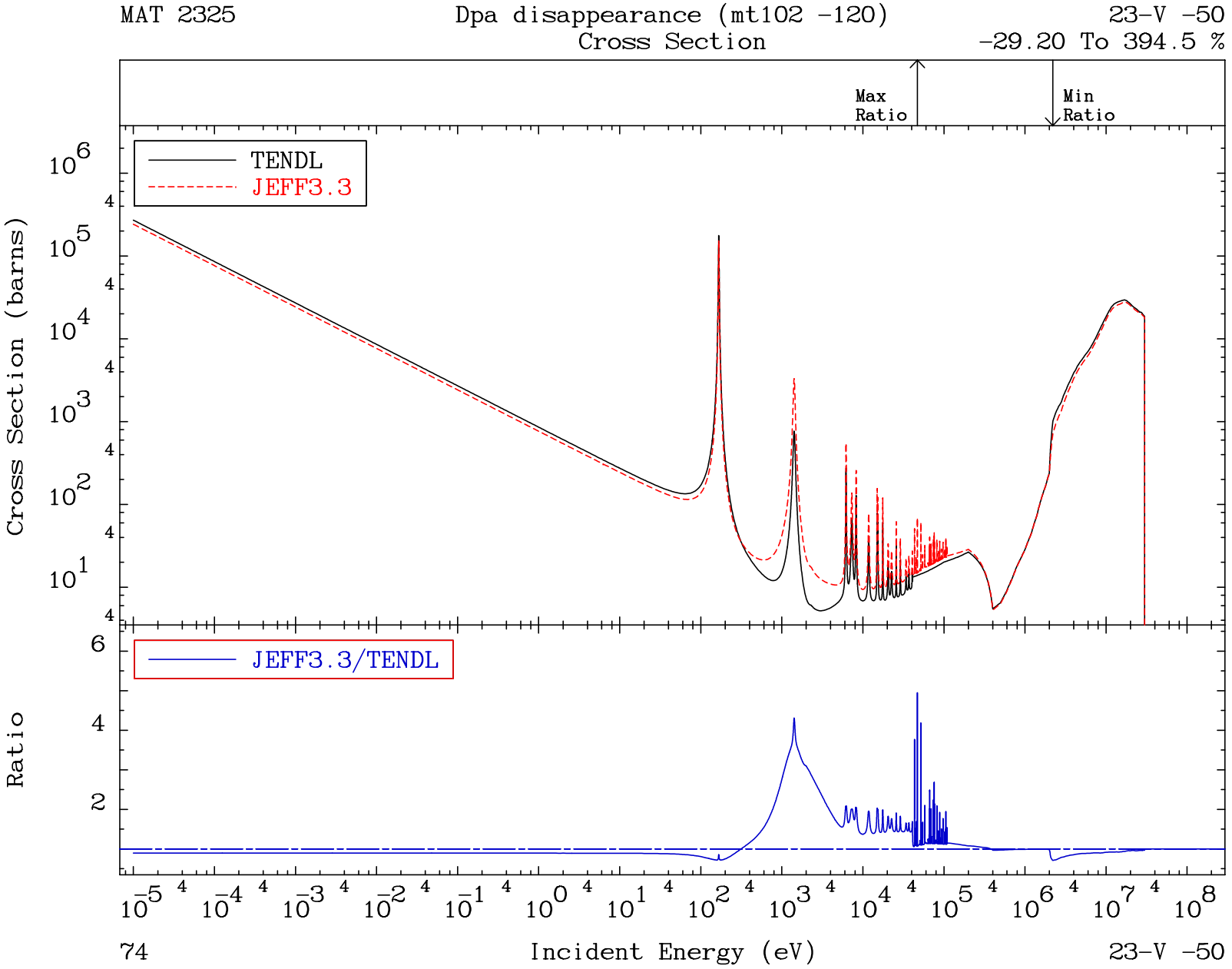

MAT 2325
Total photon (eV-barns)
Cross Section
23-V -50
-98.82 To 1822. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
69
Incident Energy (eV)
23-V -50

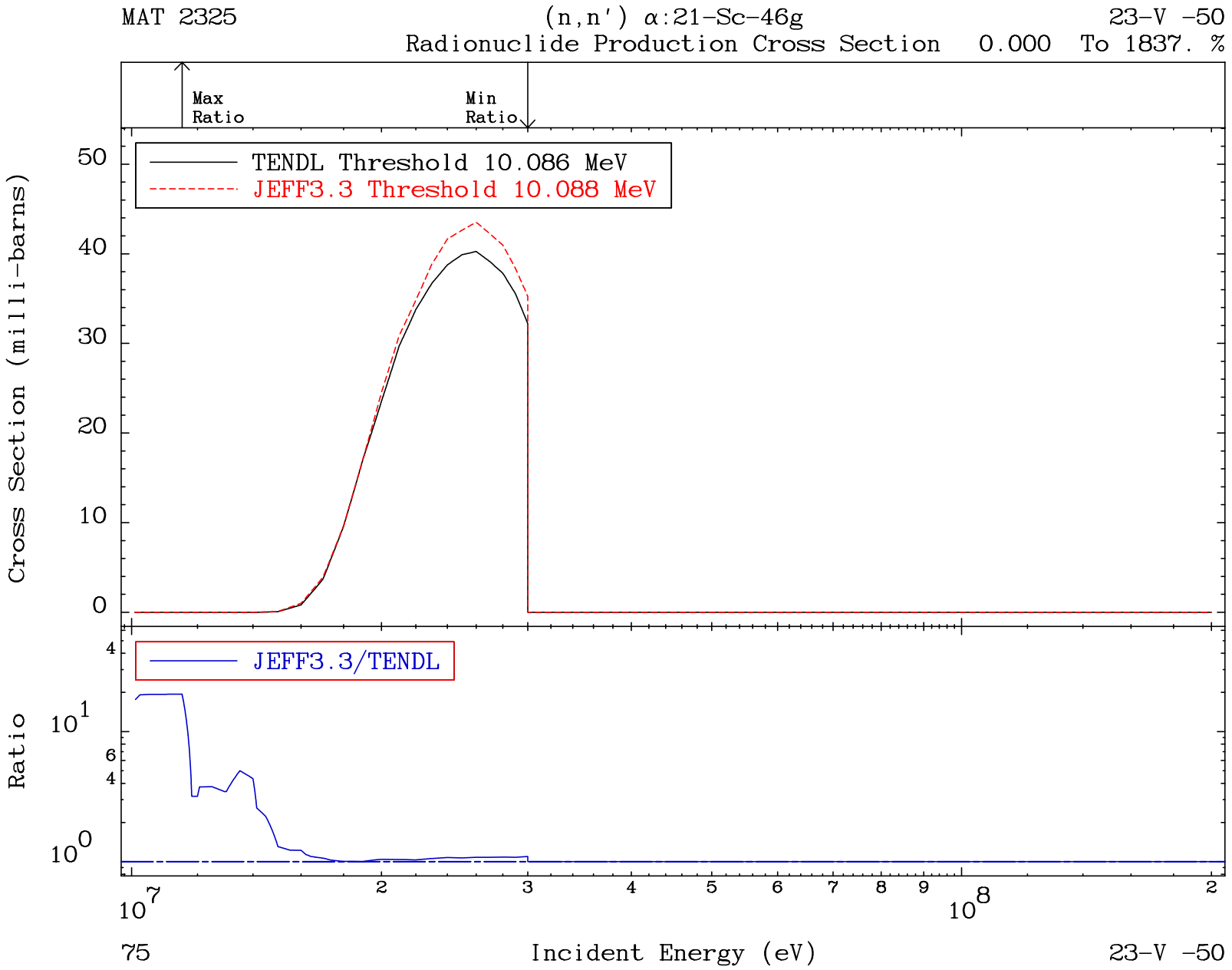

MAT 2325
Total kinematic kerma (high limit)
Cross Section
23-V -50
-94.97 To 282.1 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
23-V -50

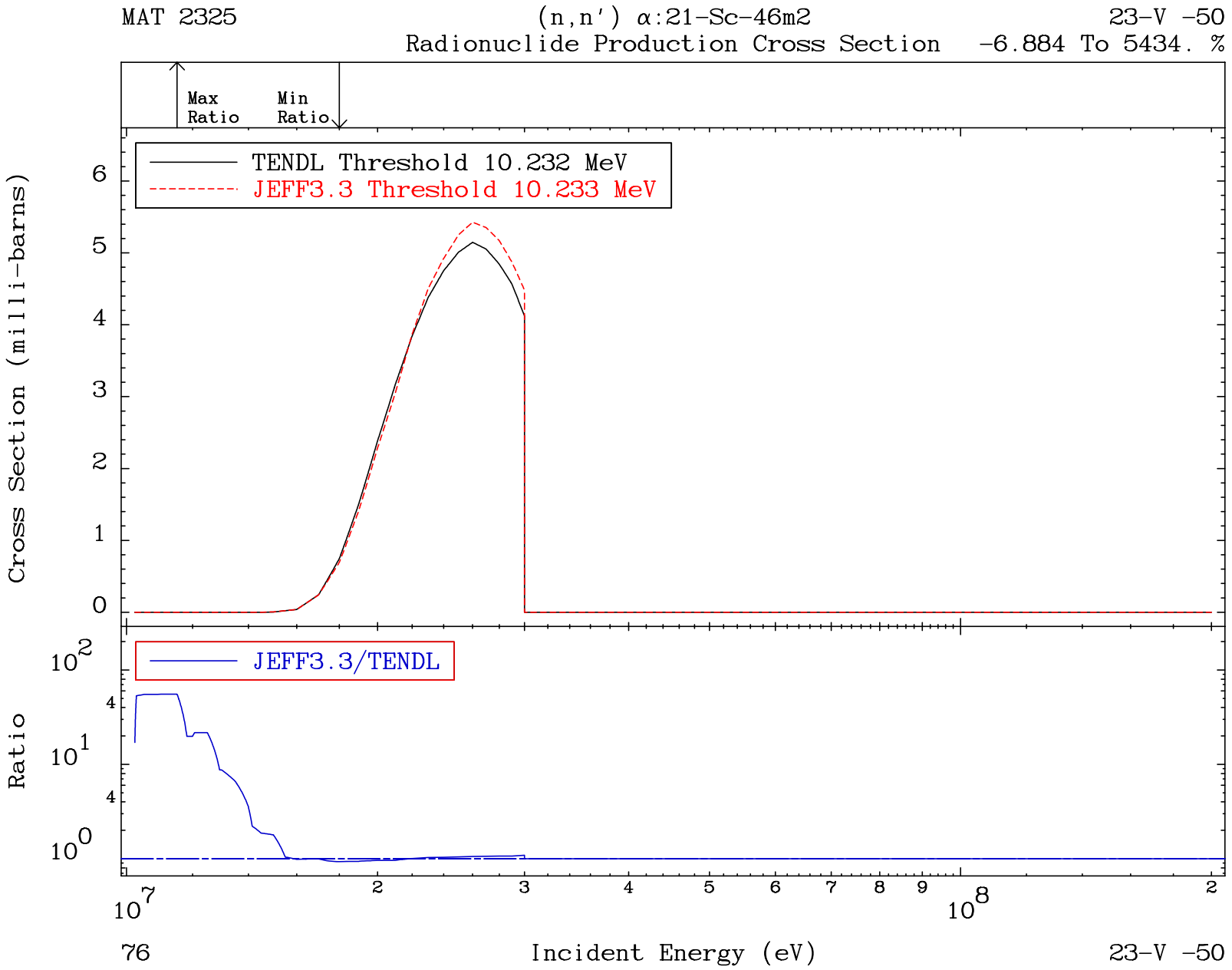

MAT 2325
Dpa total (eV-barns)
Cross Section
23-V -50
-98.97 To 309.6 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
23-V -50

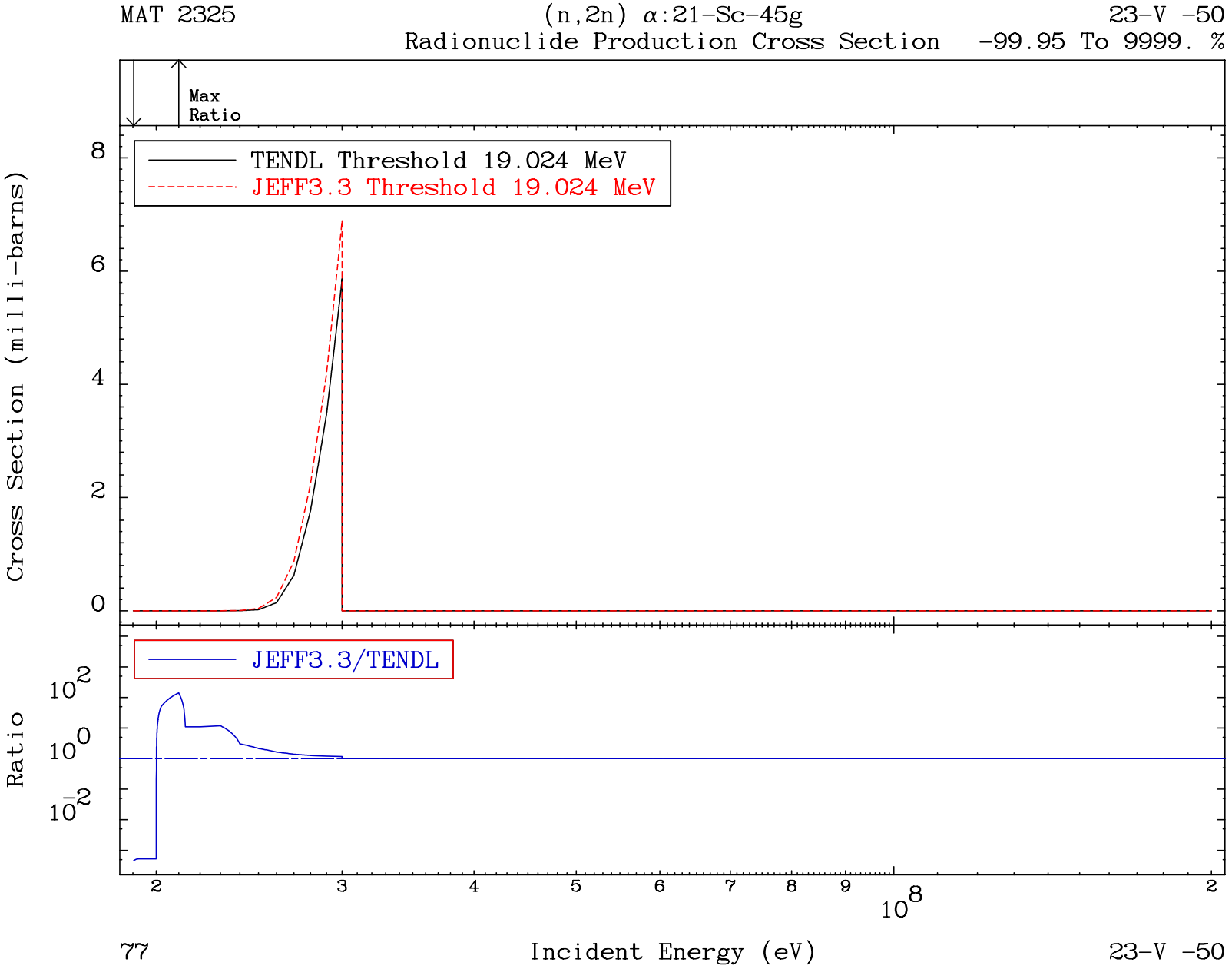

MAT 2325
Dpa elastic (mt2)
Cross Section
23-V -50
-99.05 To 466.2 %
Max Ratio
Min Ratio
TENDL Threshold 512.50 eV
JEFF3.3 Threshold 511.72 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
23-V -50

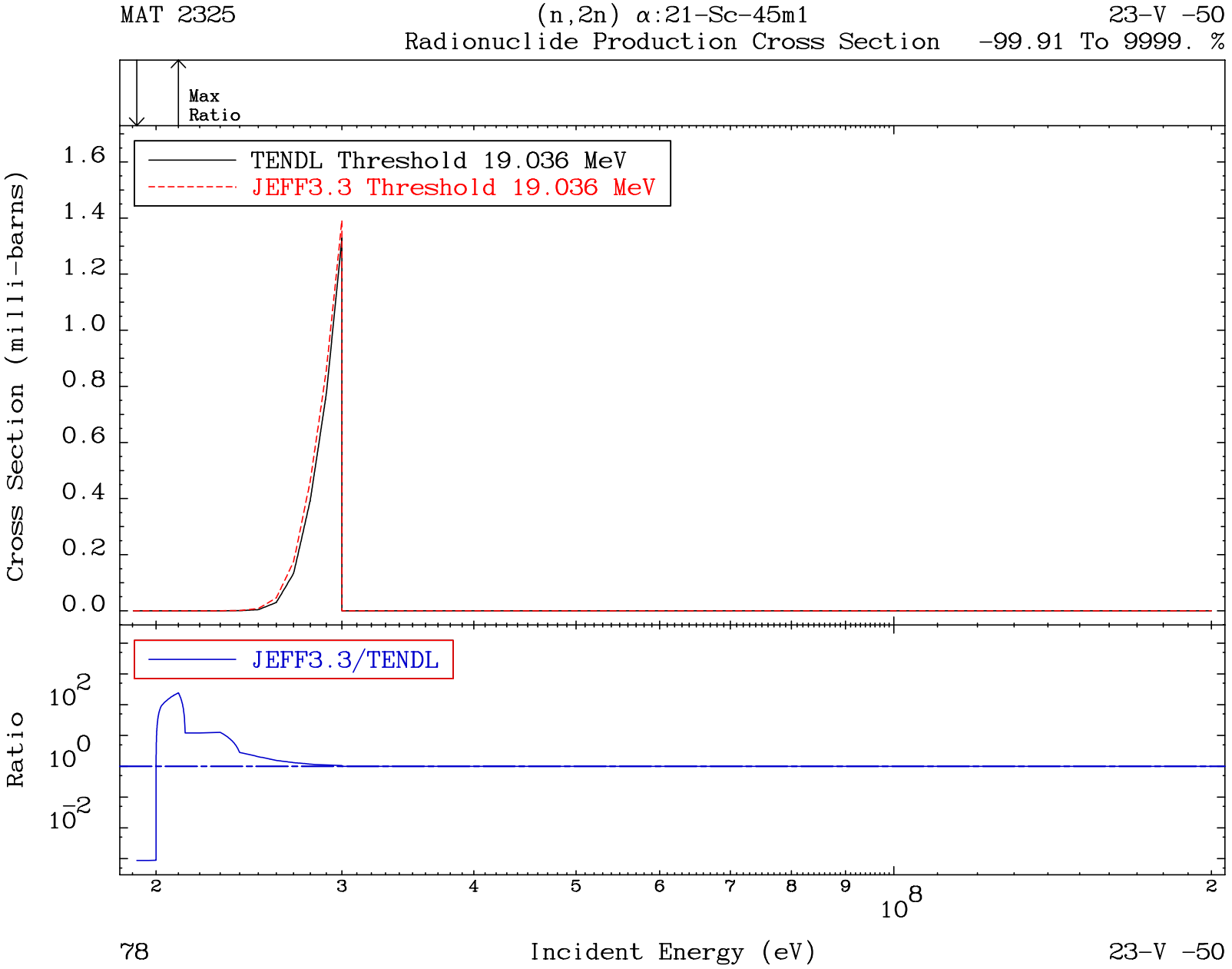

MAT 2325
Dpa inelastic (mt51-91)
Cross Section
23-V -50
-8.396 To 1.104 %
Max Ratio
Min Ratio
TENDL Threshold 230.82 keV
JEFF3.3 Threshold 230.82 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
73
Incident Energy (eV)
23-V -50

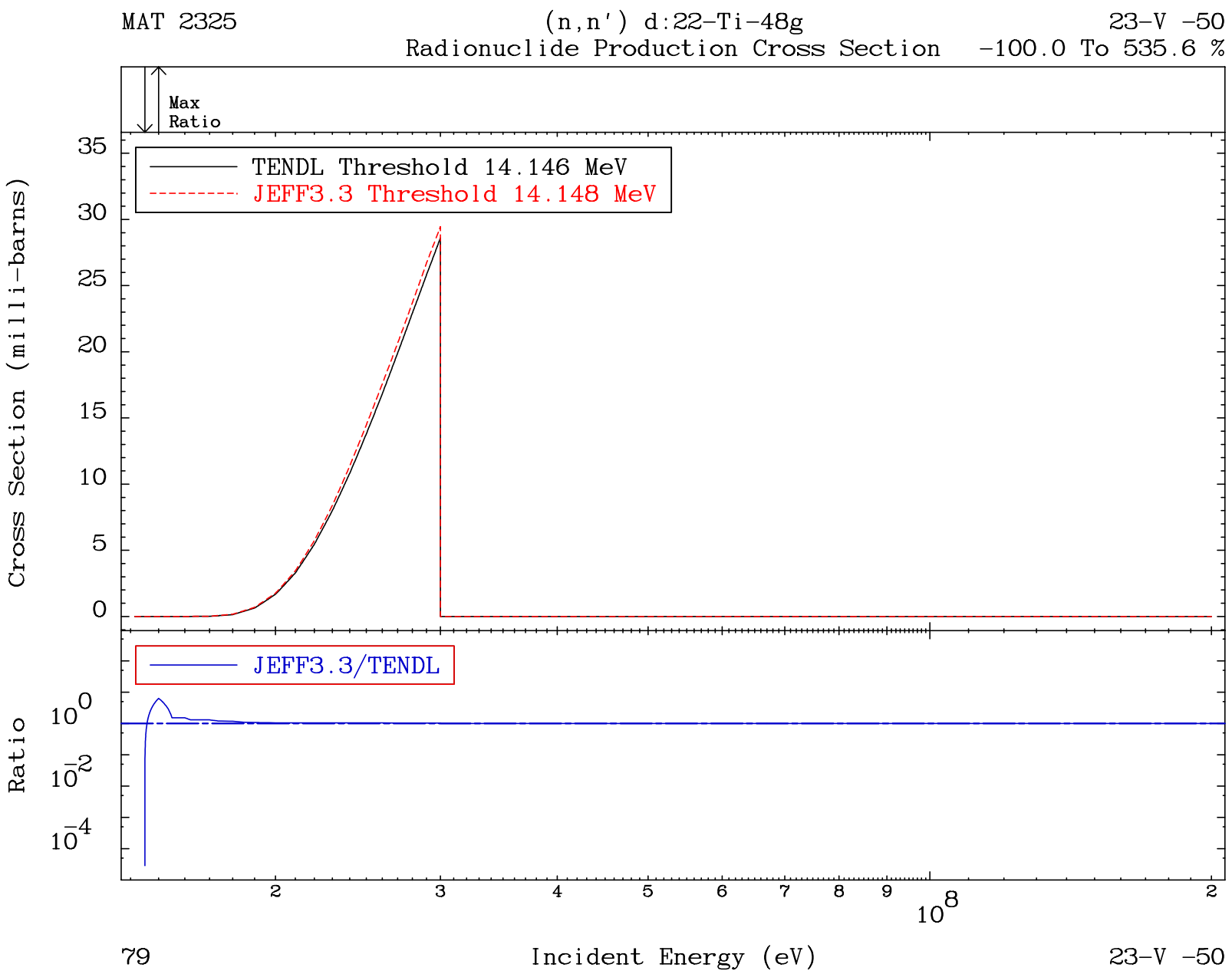

MAT 2325
Dpa disappearance (mt102 -120)
Cross Section
23-V -50
-29.20 To 394.5 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
23-V -50

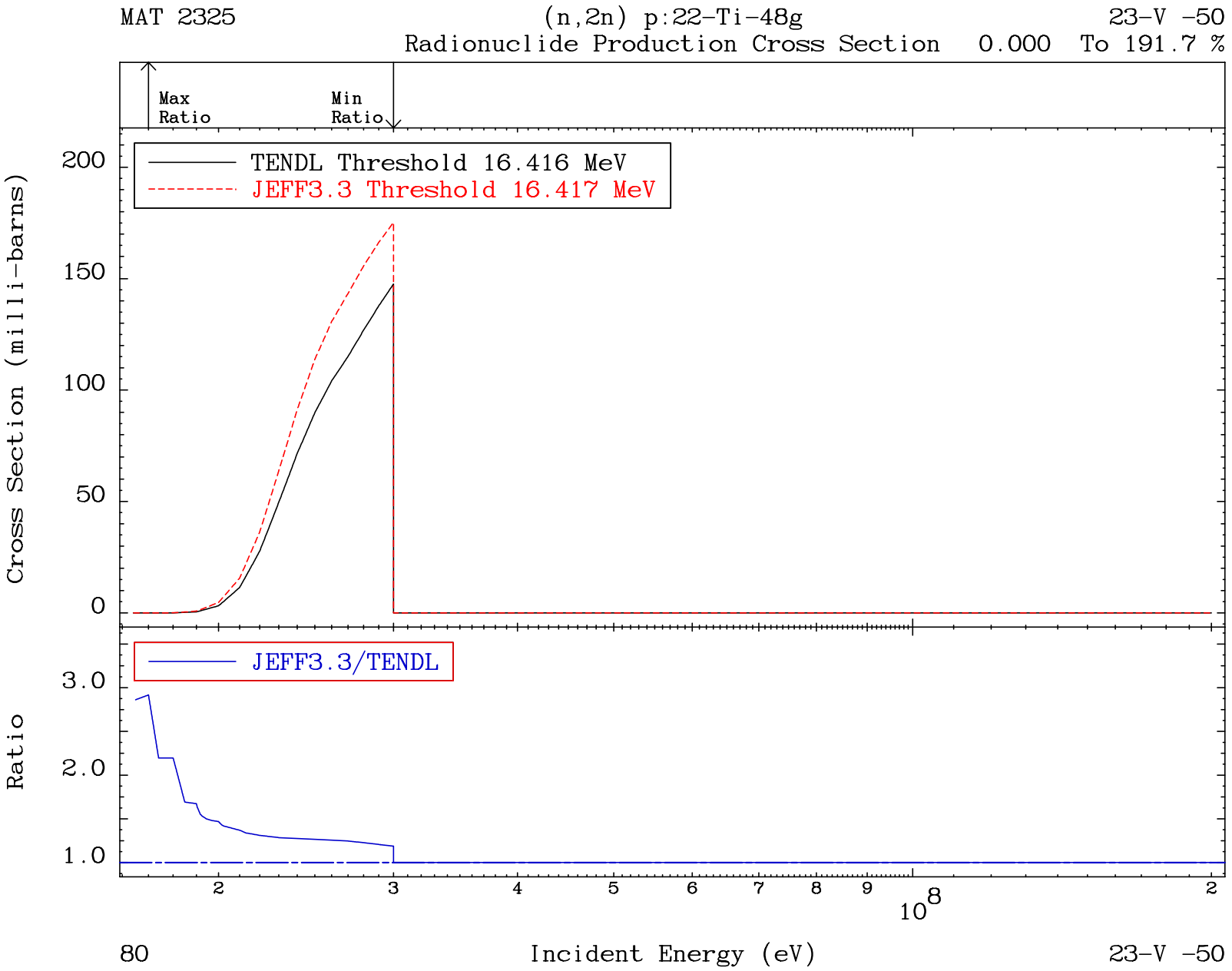

MAT 2325
(n,n') α:21-Sc-46g
23-V -50
Radionuclide Production Cross Section 0.000 To 1837. %
Max Ratio
Min Ratio
TENDL Threshold 10.086 MeV
JEFF3.3 Threshold 10.088 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
4
10^1
6
4
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
75
Incident Energy (eV)
23-V -50

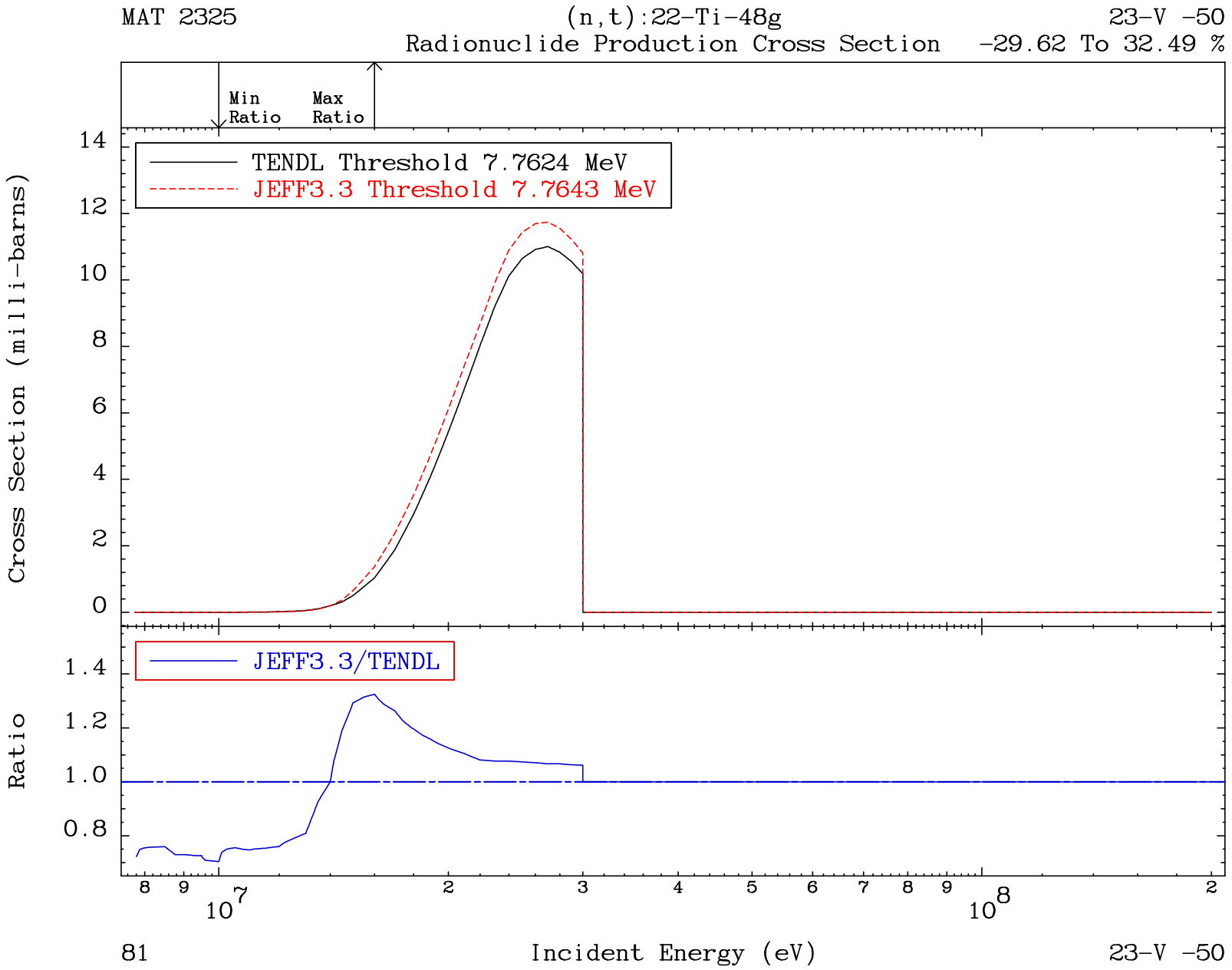

MAT 2325
(n,n') α:21-Sc-46m2
23-V -50
Radionuclide Production Cross Section -6.884 To 5434. %
Max Ratio
Min Ratio
TENDL Threshold 10.232 MeV
JEFF3.3 Threshold 10.233 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
76
23-V -50


MAT 2325
(n,2n) α:21-Sc-45g
23-V -50
Radionuclide Production Cross Section
-99.95 To 9999. %
Max
Ratio
TENDL Threshold 19.024 MeV
JEFF3.3 Threshold 19.024 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
23-V -50


MAT 2325
(n,2n) α:21-Sc-45m1
23-V -50
Radionuclide Production Cross Section
-99.91 To 9999. %
Max
Ratio
TENDL Threshold 19.036 MeV
JEFF3.3 Threshold 19.036 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
23-V -50


MAT 2325
(n,n') d:22-Ti-48g
23-V -50
Radionuclide Production Cross Section
-100.0 To 535.6 %
Max
Ratio
TENDL Threshold 14.146 MeV
JEFF3.3 Threshold 14.148 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
23-V -50


MAT 2325
(n,2n) p:22-Ti-48g
23-V -50
Radionuclide Production Cross Section 0.000 To 191.7 %
Max Ratio
Min Ratio
TENDL Threshold 16.416 MeV
JEFF3.3 Threshold 16.417 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
23-V -50


MAT 2325
(n,t):22-Ti-48g
23-V -50
Radionuclide Production Cross Section
-29.62 To 32.49 %
Min Ratio
Max Ratio
TENDL Threshold 7.7624 MeV
JEFF3.3 Threshold 7.7643 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
81
23-V -50