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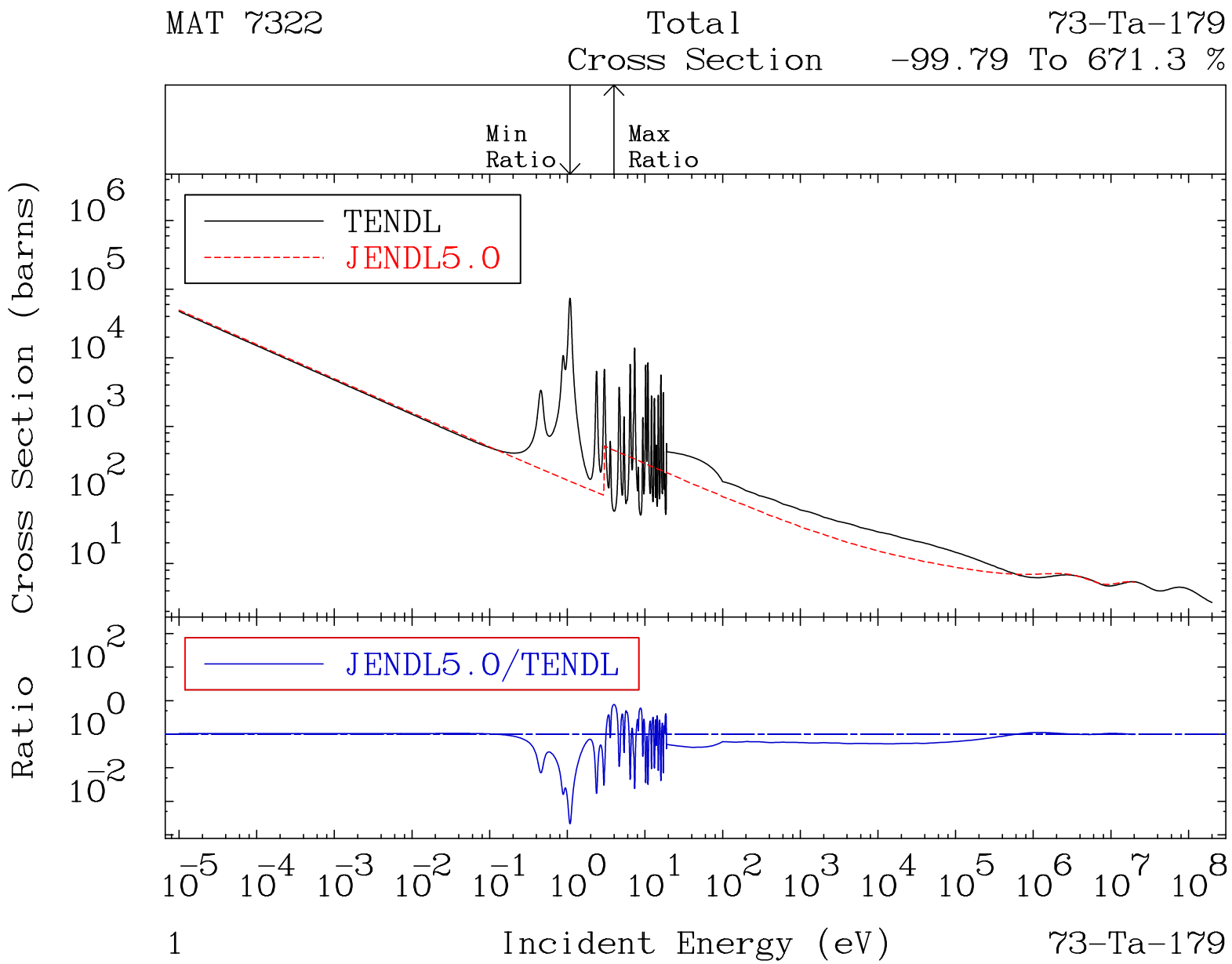
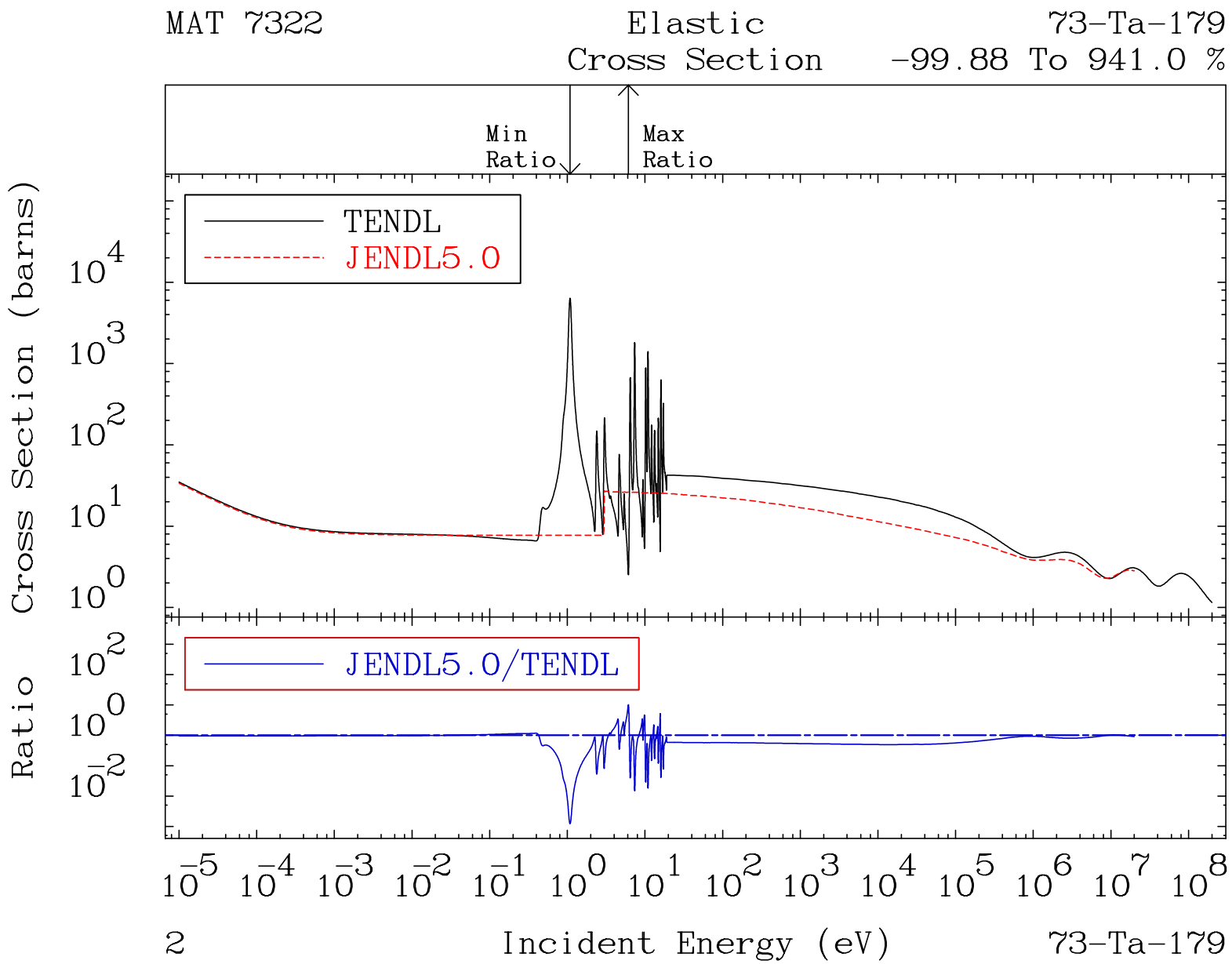
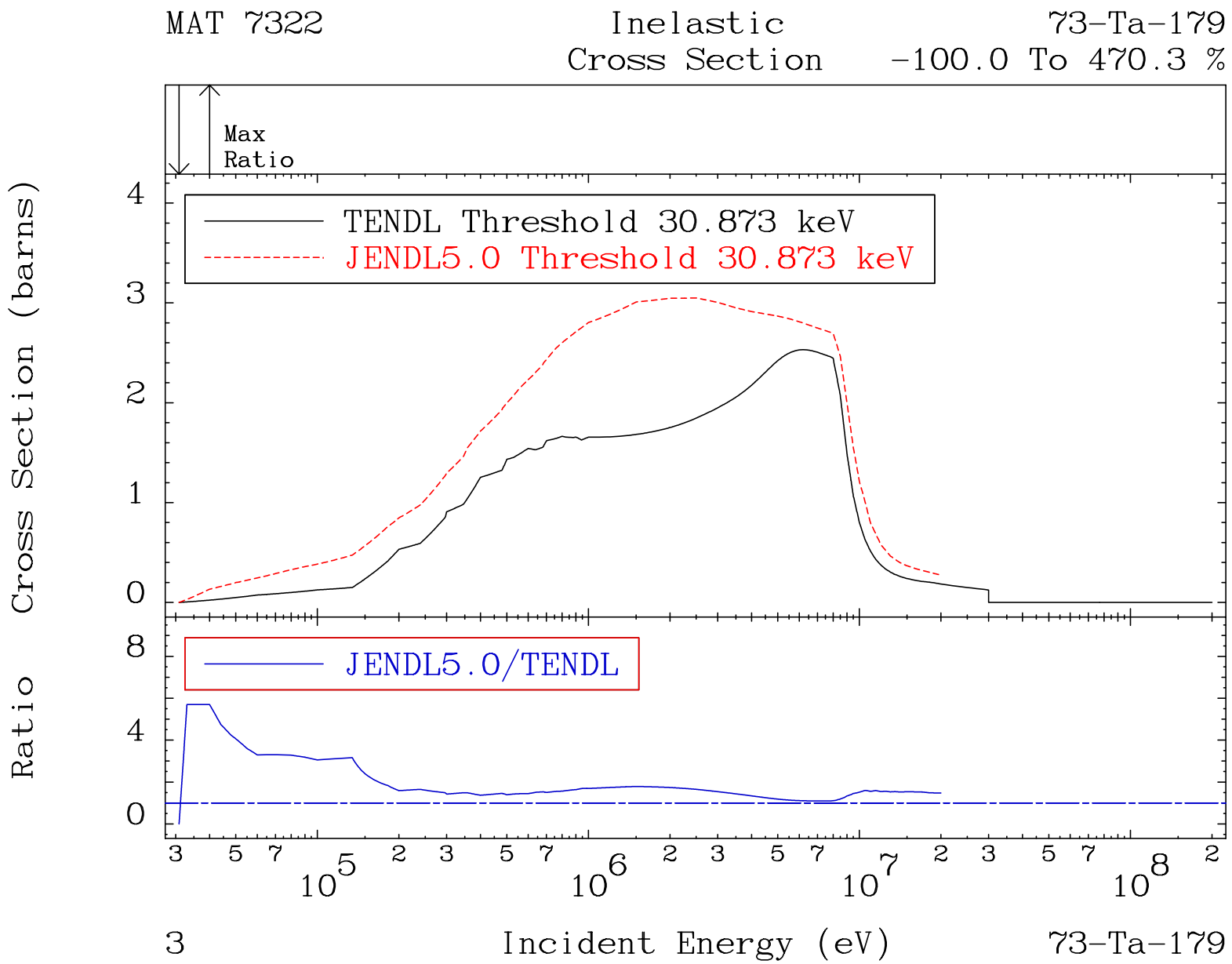
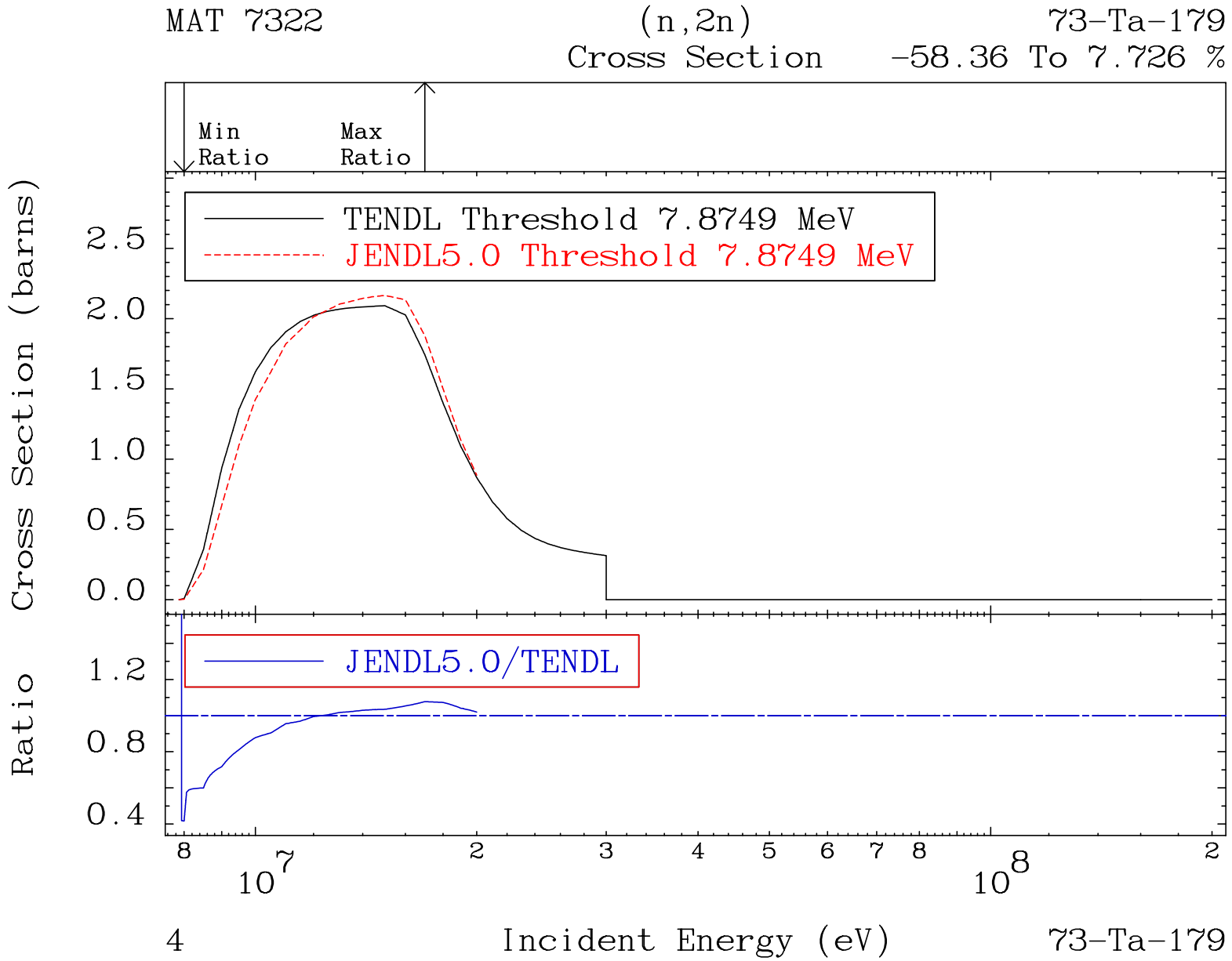
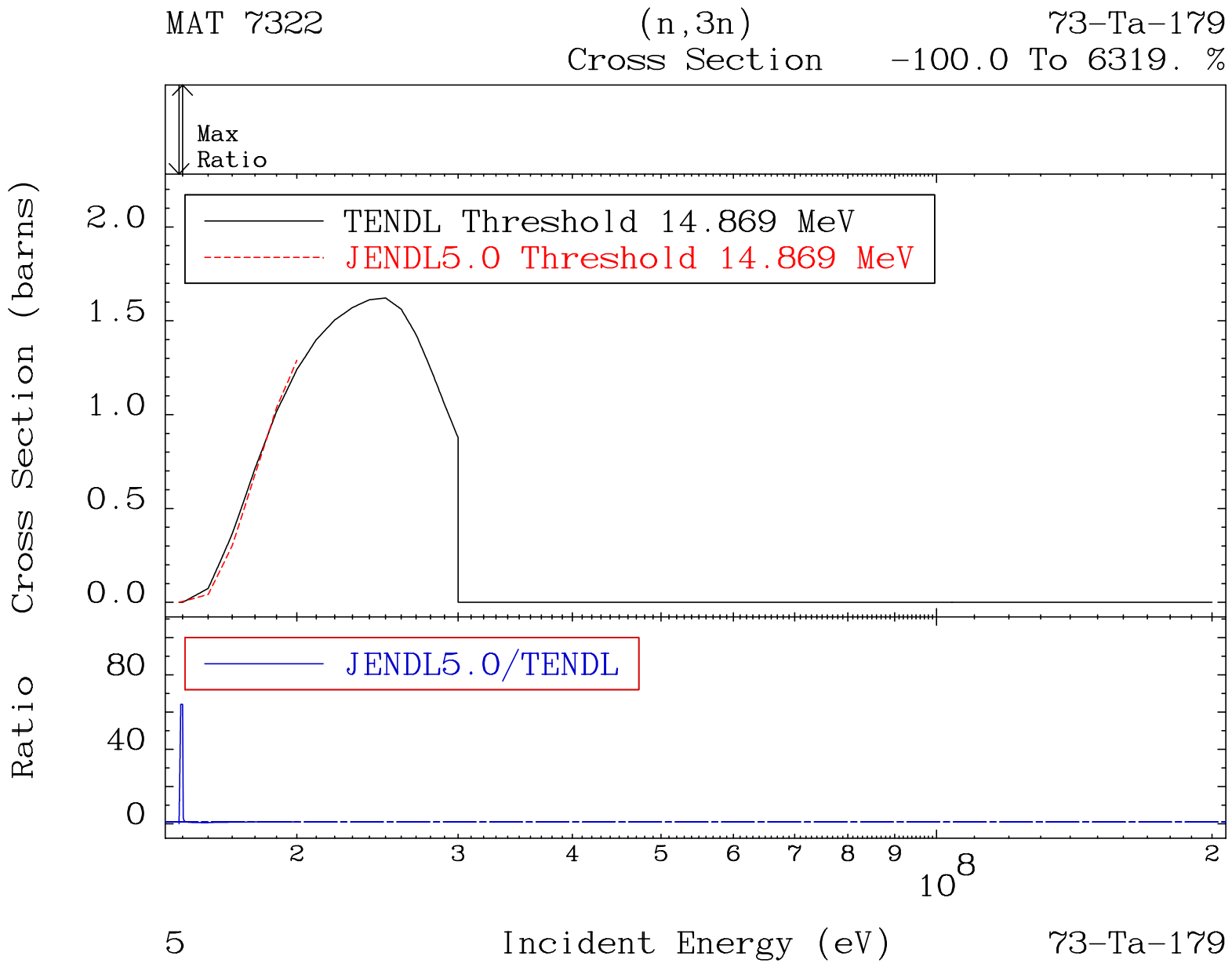
Press Mouse Button to Start

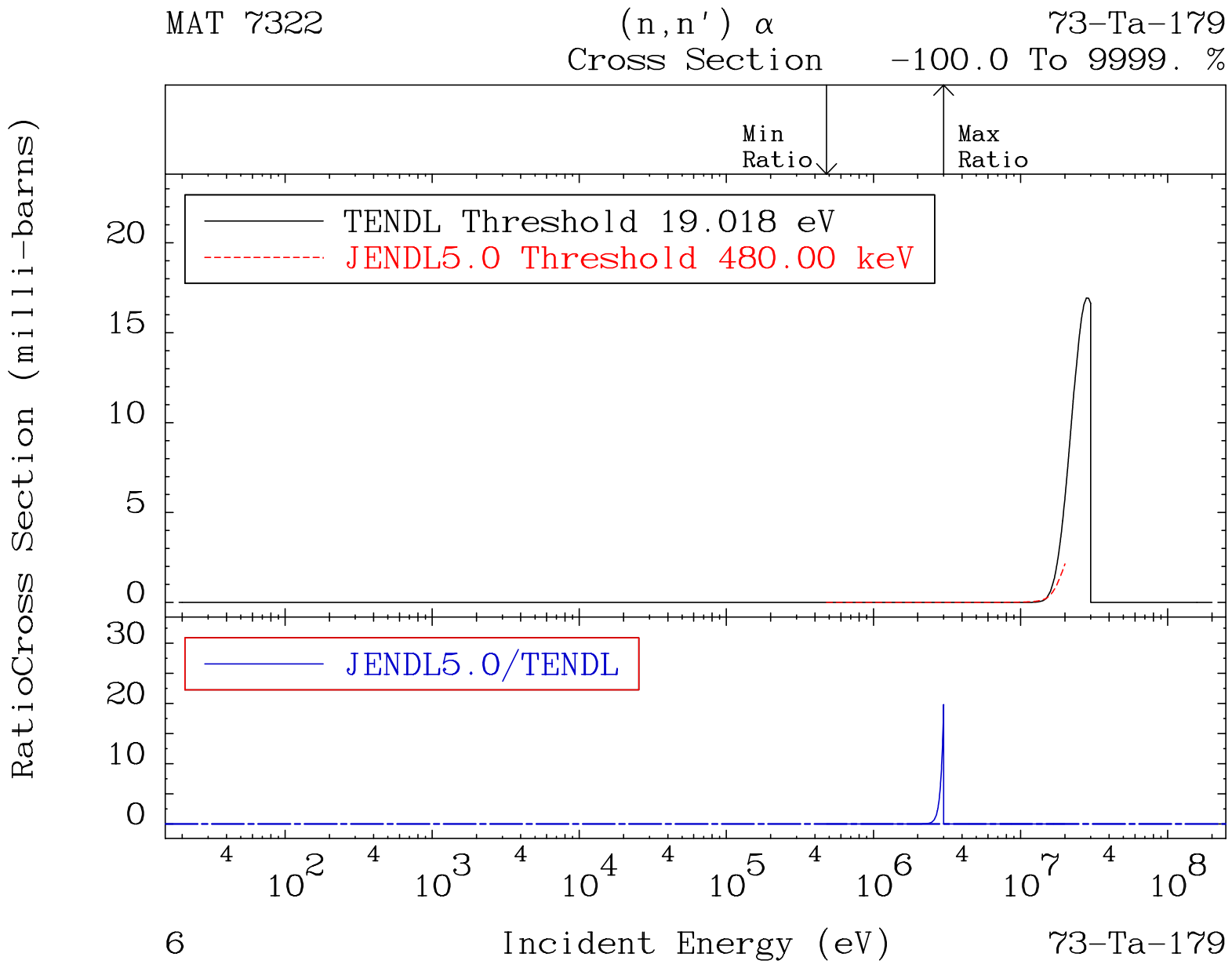

MAT 7322
Total
Cross Section
73-Ta-179
-99.79 To 671.3 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
73-Ta-179

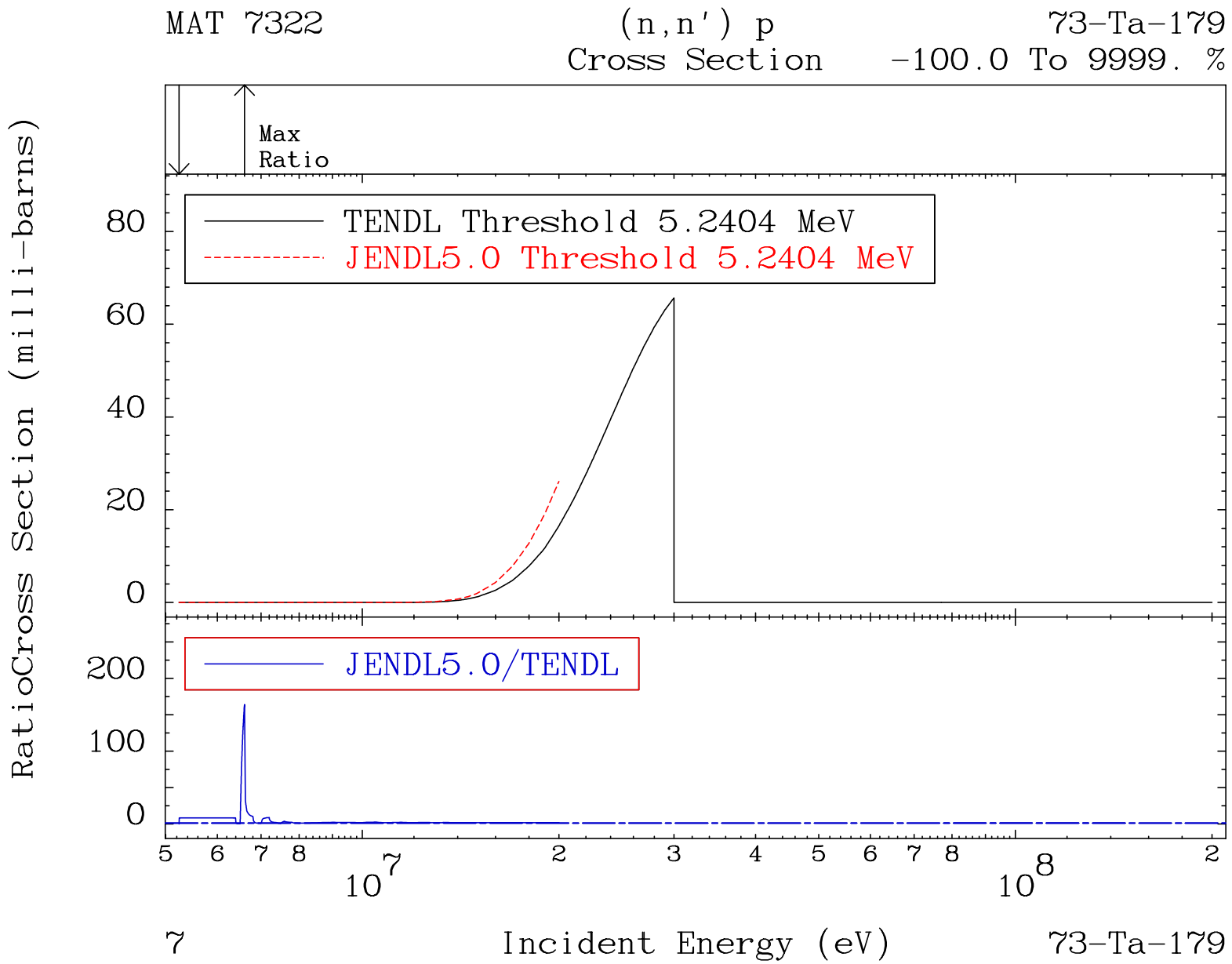

MAT 7322
Elastic
Cross Section
73-Ta-179
-99.88 To 941.0 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
2
73-Ta-179

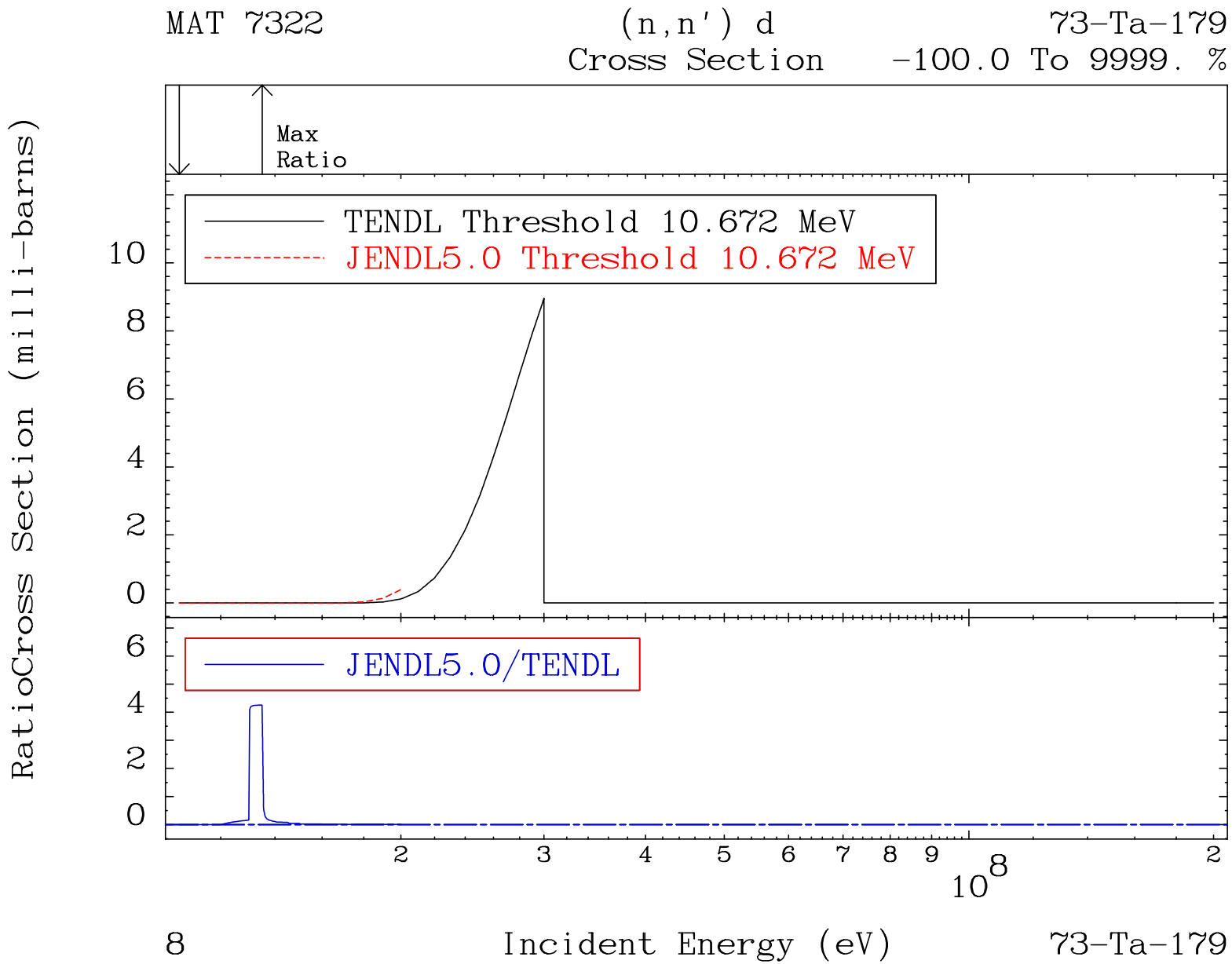

MAT 7322
Inelastic
Cross Section
73-Ta-179
-100.0 To 470.3 %
Max
Ratio
TENDL Threshold 30.873 keV
JENDL5.0 Threshold 30.873 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73-Ta-179

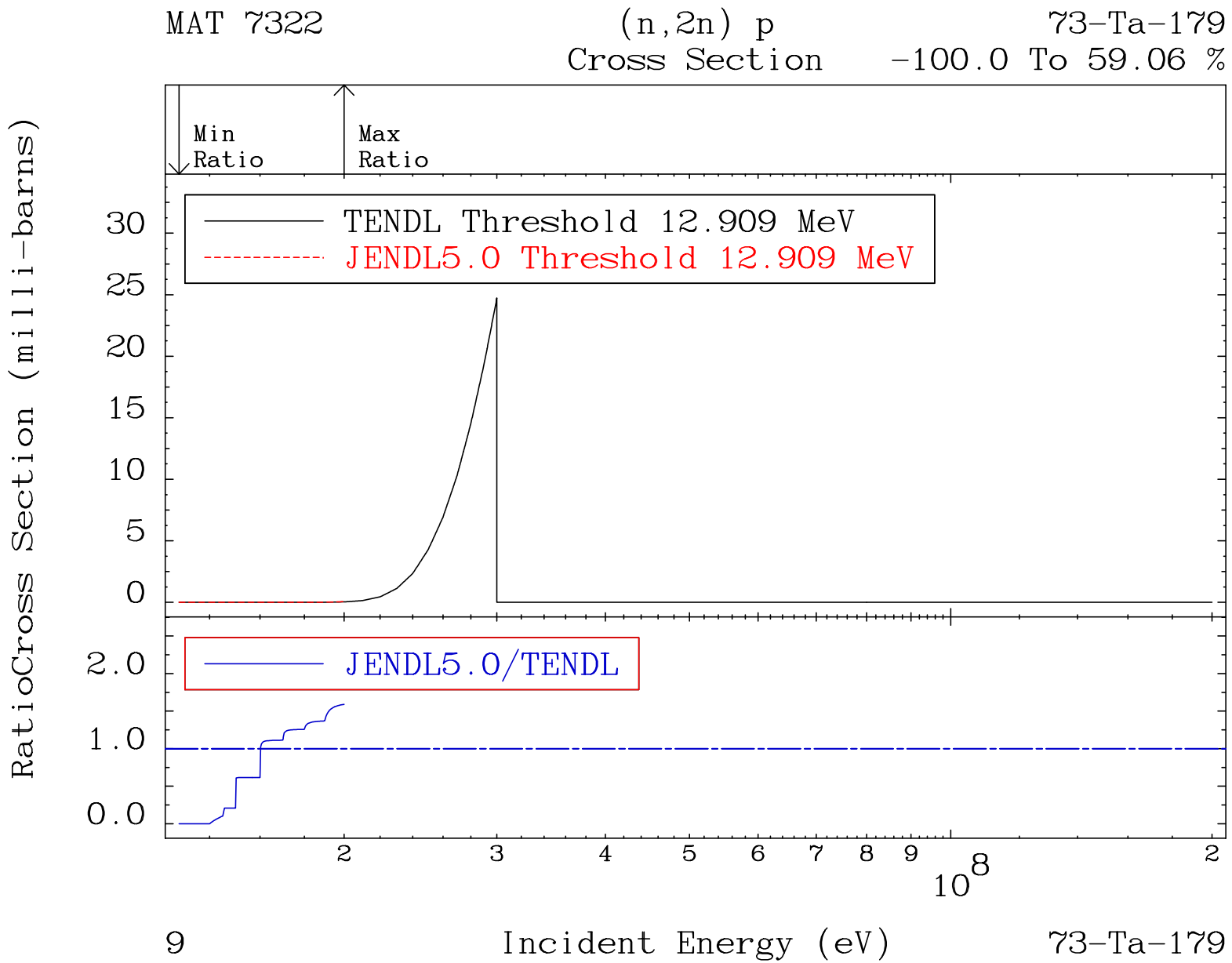

MAT 7322
(n,2n)
Cross Section
73-Ta-179
-58.36 To 7.726 %
Min Ratio
Max Ratio
TENDL Threshold 7.8749 MeV
JENDL5.0 Threshold 7.8749 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
4
73-Ta-179

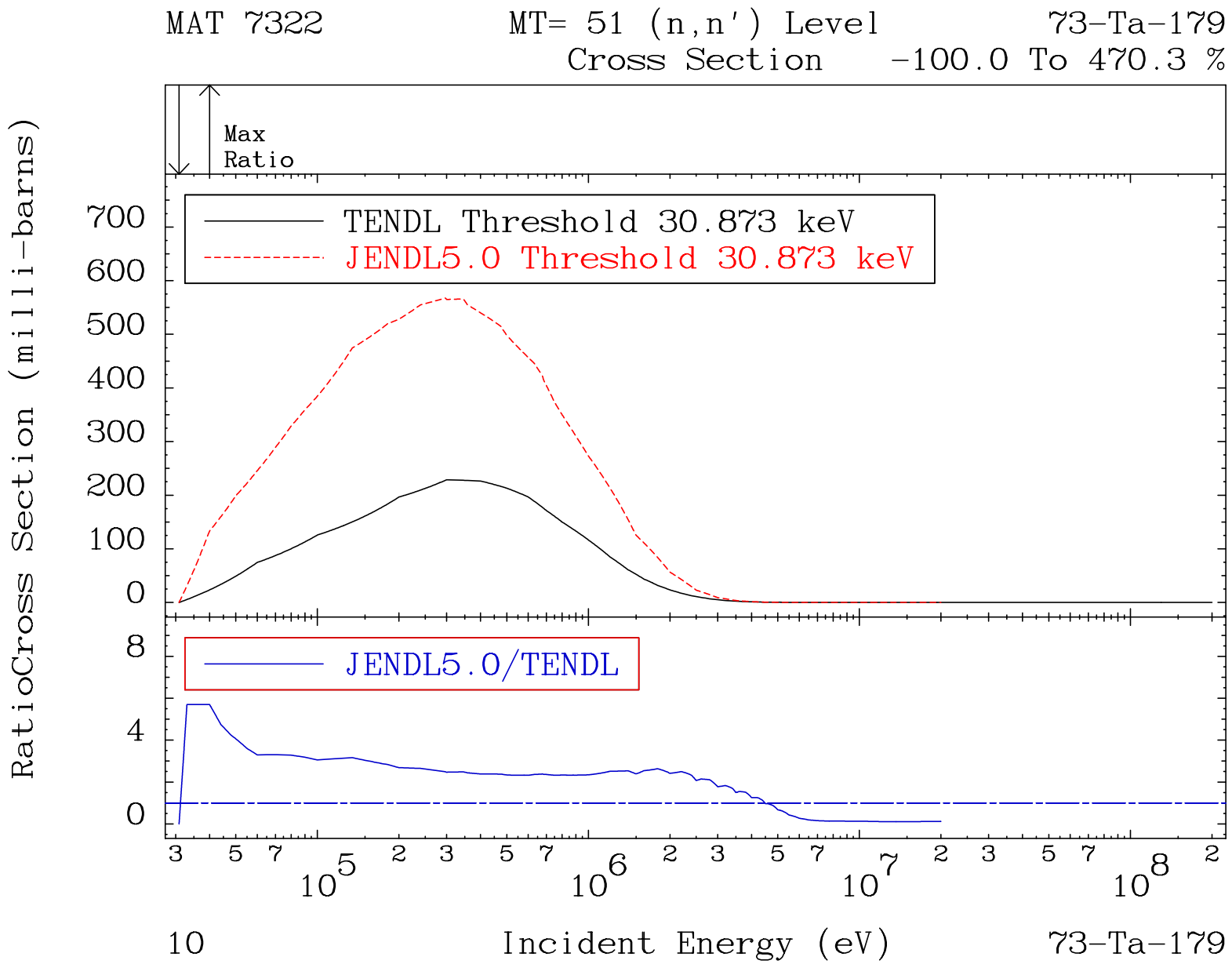

MAT 7322
(n,3n)
Cross Section
73-Ta-179
-100.0 To 6319. %
Max
Ratio
TENDL Threshold 14.869 MeV
JENDL5.0 Threshold 14.869 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
73-Ta-179

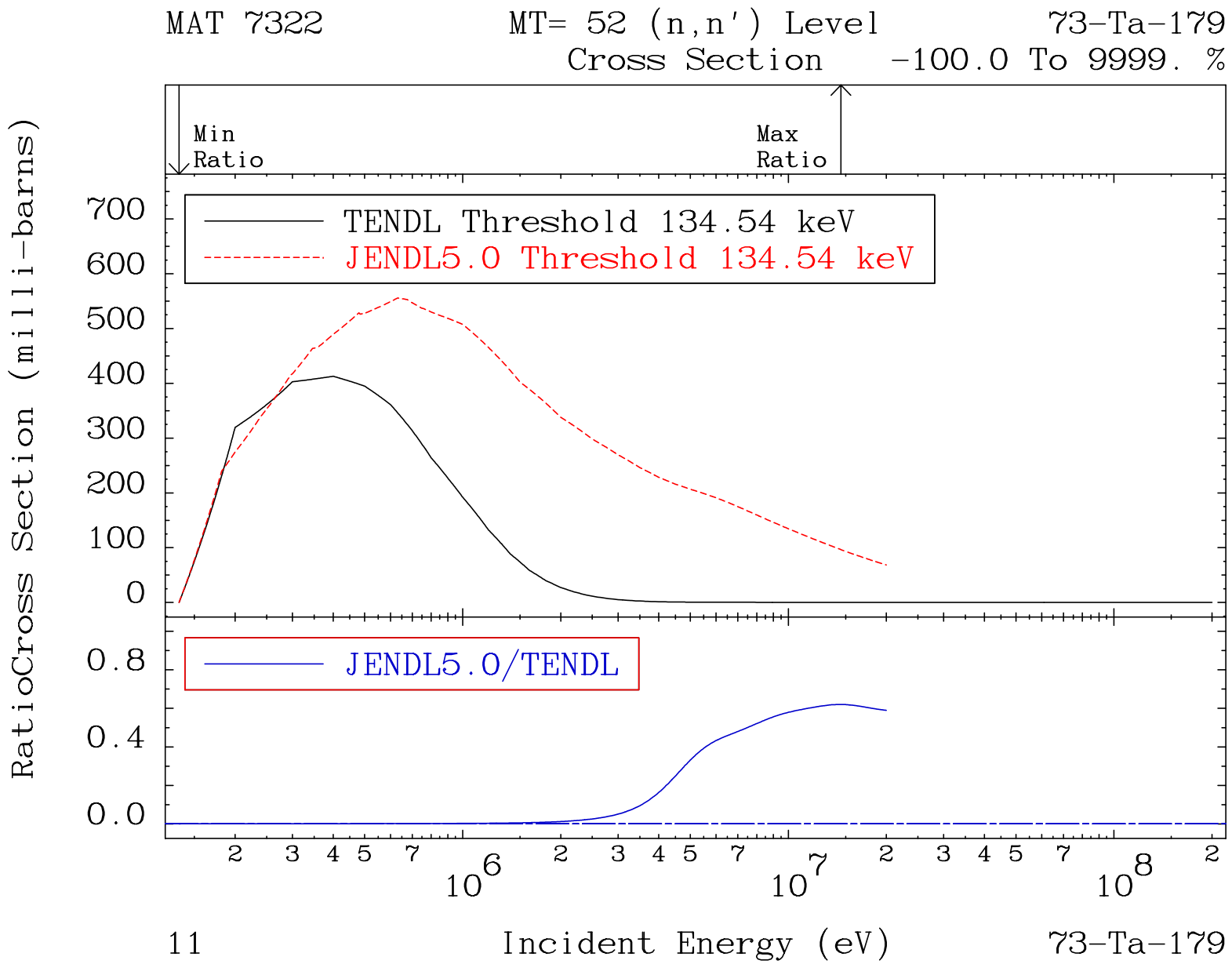

MAT 7322
(n,n') α
Cross Section
73-Ta-179
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 19.018 eV
JENDL5.0 Threshold 480.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
73-Ta-179

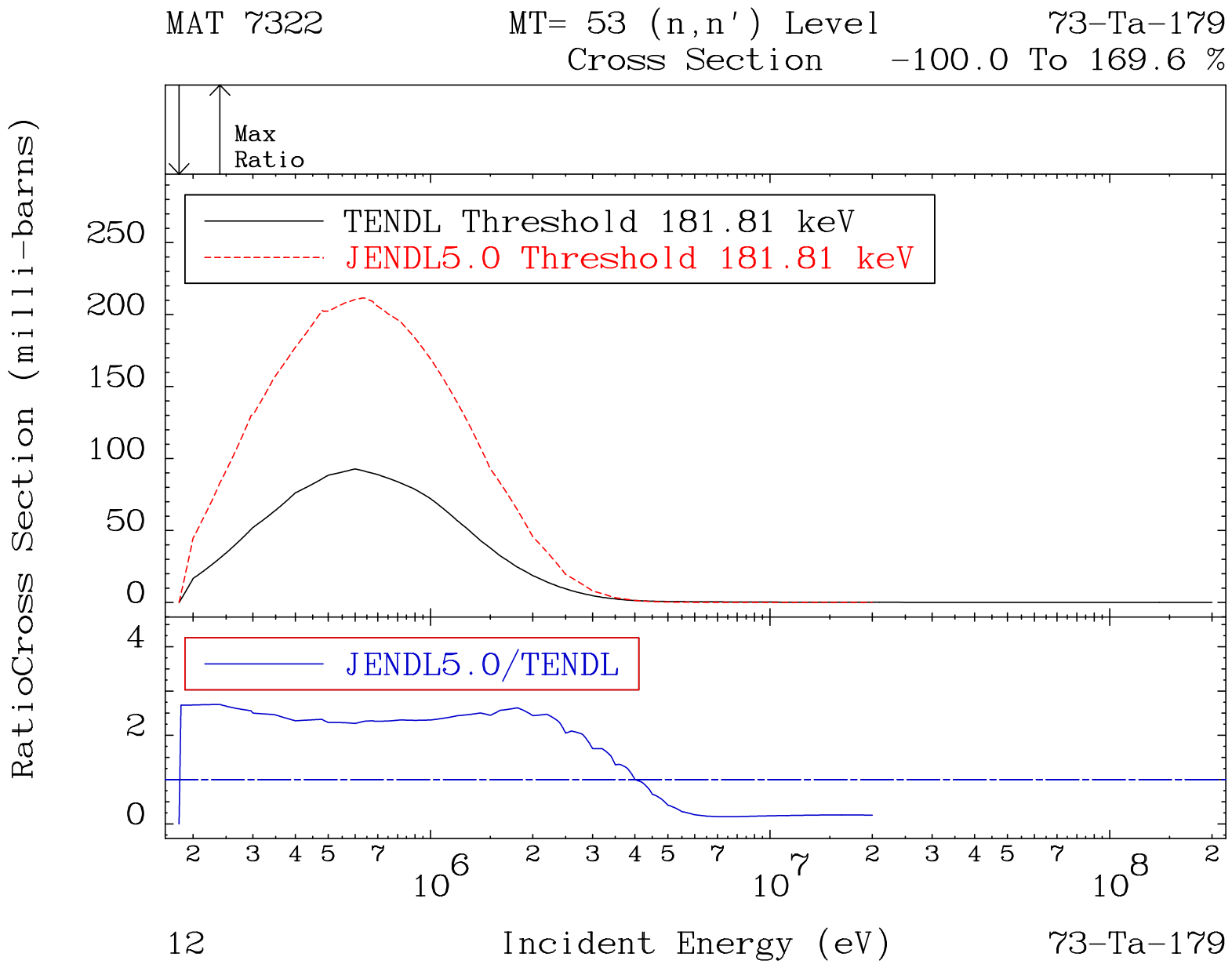

MAT 7322
(n,n') p
Cross Section
73-Ta-179
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.2404 MeV
JENDL5.0 Threshold 5.2404 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
200
100
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
73-Ta-179

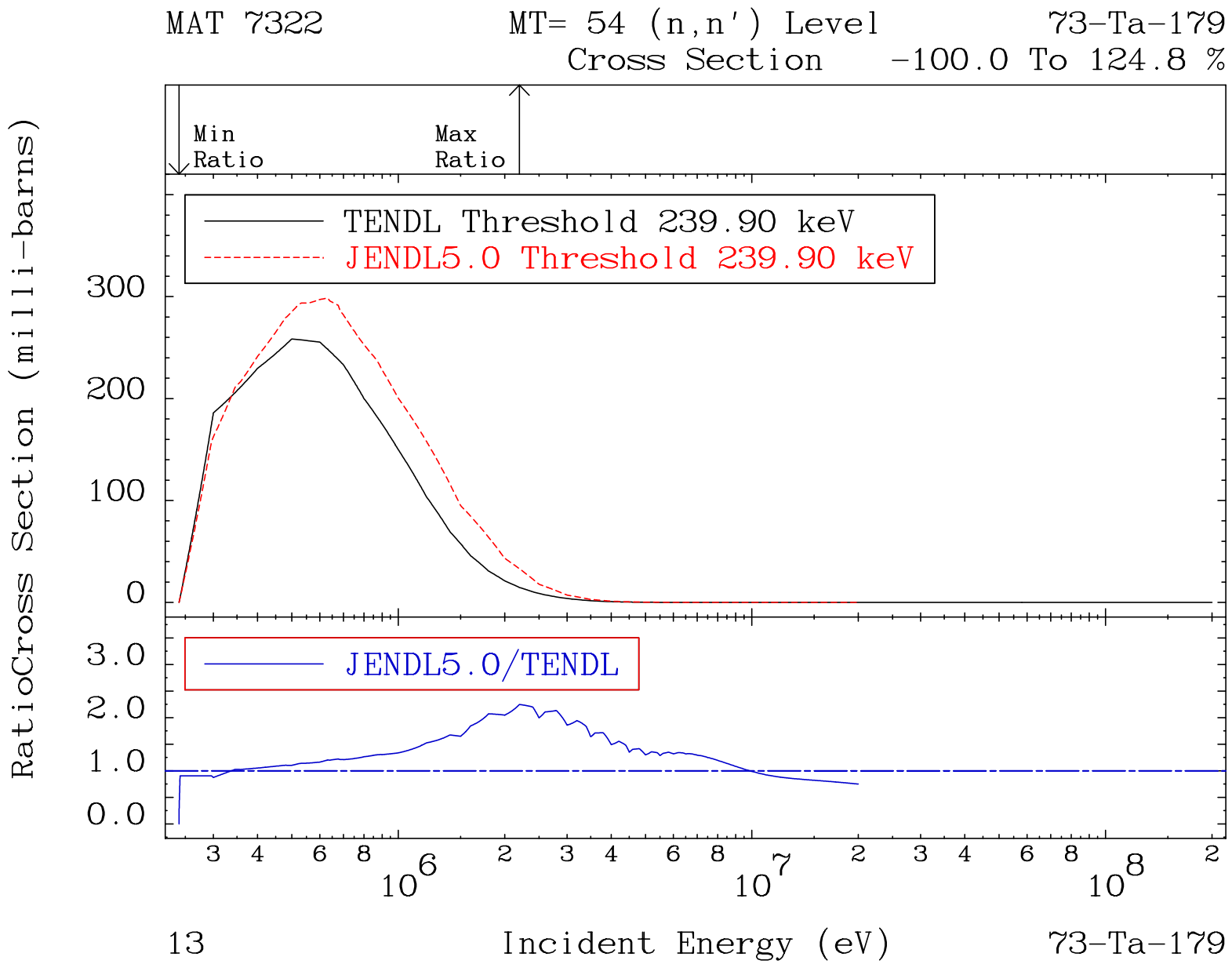

MAT 7322
(n,n') d
Cross Section
73-Ta-179
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.672 MeV
JENDL5.0 Threshold 10.672 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
8
73-Ta-179

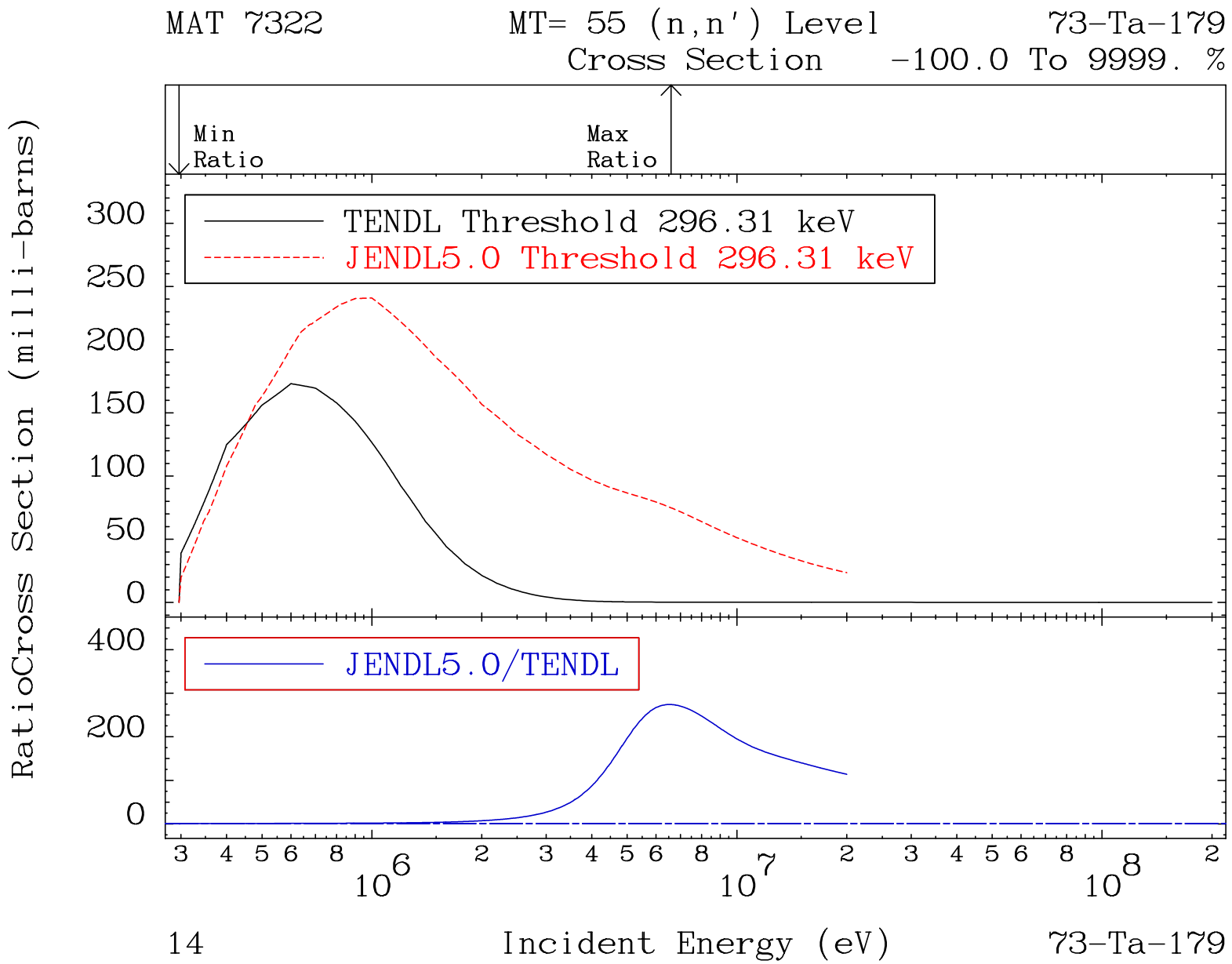

MAT 7322
(n,2n) p
Cross Section
73-Ta-179
-100.0 To 59.06 %
Min Ratio
Max Ratio
TENDL Threshold 12.909 MeV
JENDL5.0 Threshold 12.909 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
73-Ta-179

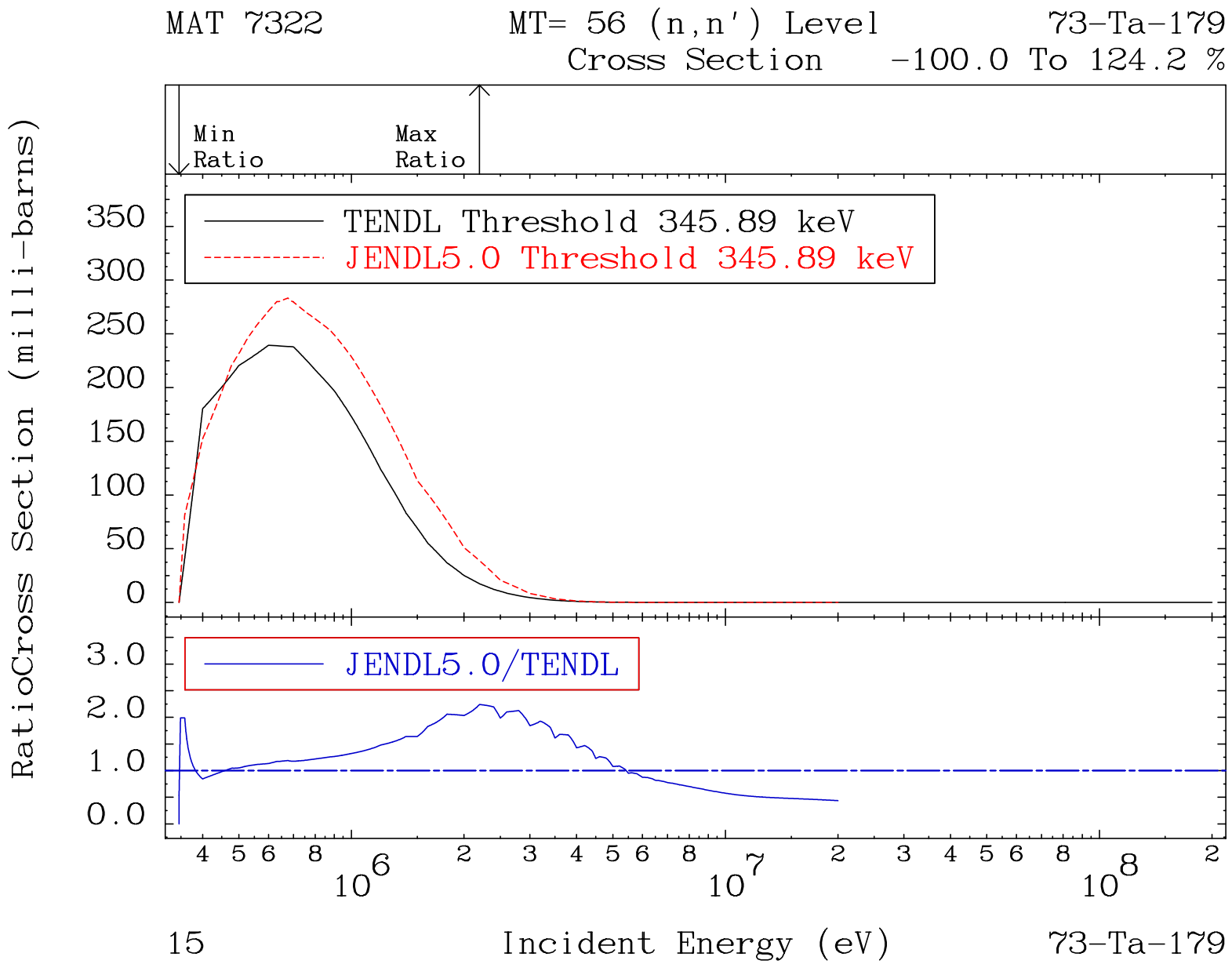

MAT 7322
MT= 51 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 470.3 %
Max
Ratio
TENDL Threshold 30.873 keV
JENDL5.0 Threshold 30.873 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
8
4
0
3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
10
Incident Energy (eV)
73-Ta-179

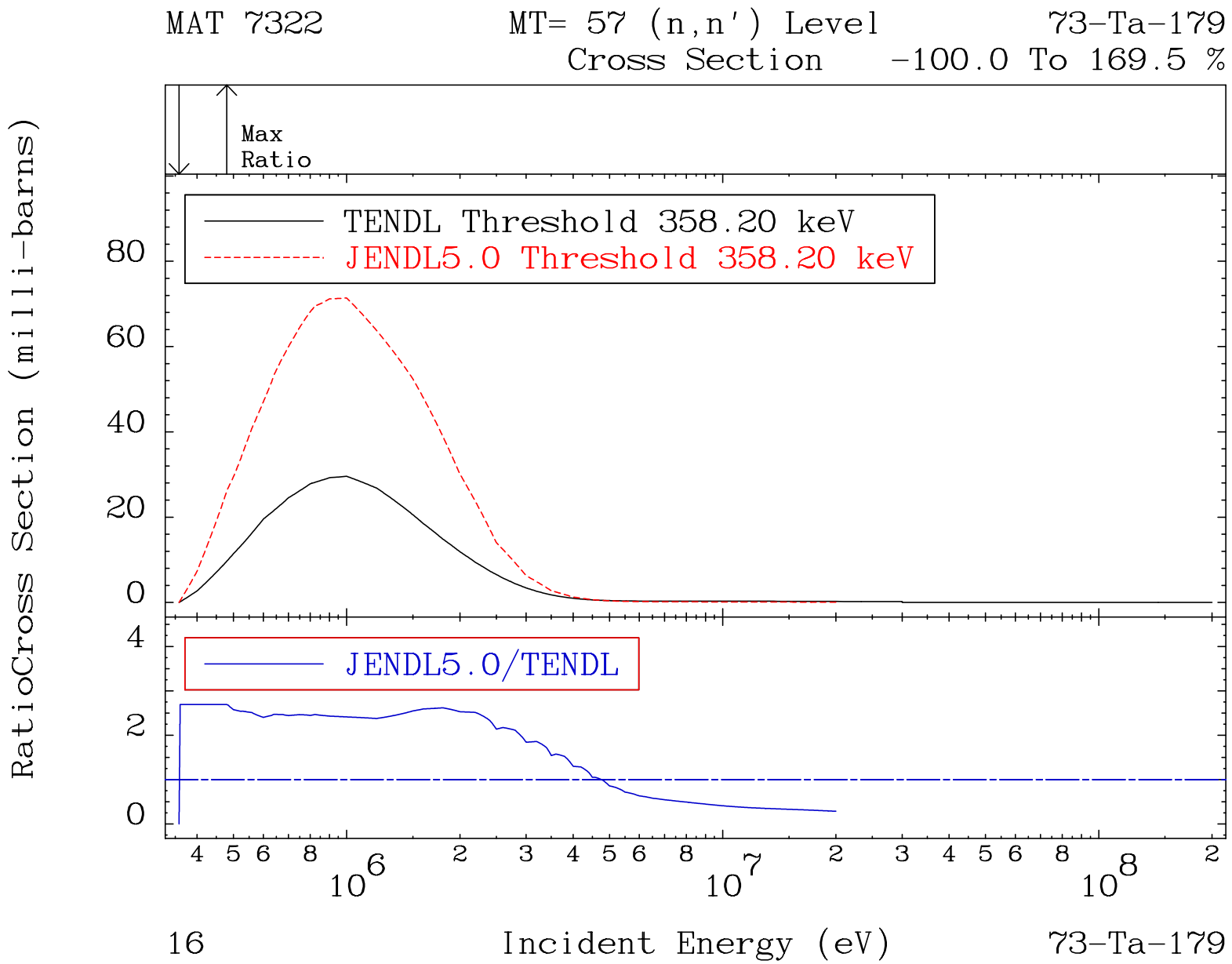

MAT 7322
MT= 52 (n,n') Level
73-Ta-179
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 134.54 keV
JENDL5.0 Threshold 134.54 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
0.8
0.4
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
11
Incident Energy (eV)
73-Ta-179

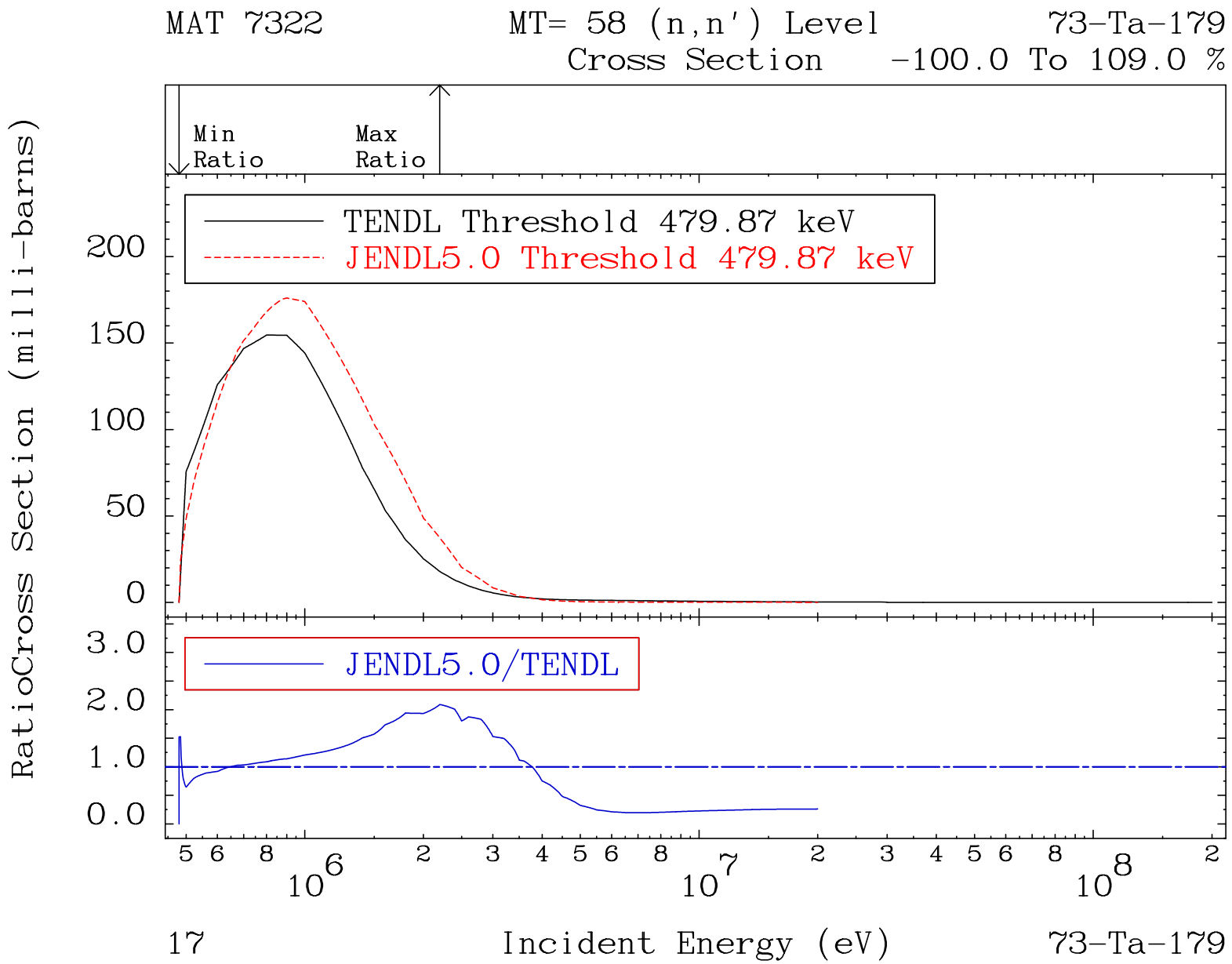

MAT 7322
MT= 53 (n,n') Level
Cross Section
73-Ta-179
-100.0 To 169.6 %
Max
Ratio
TENDL Threshold 181.81 keV
JENDL5.0 Threshold 181.81 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
12
Incident Energy (eV)
73-Ta-179

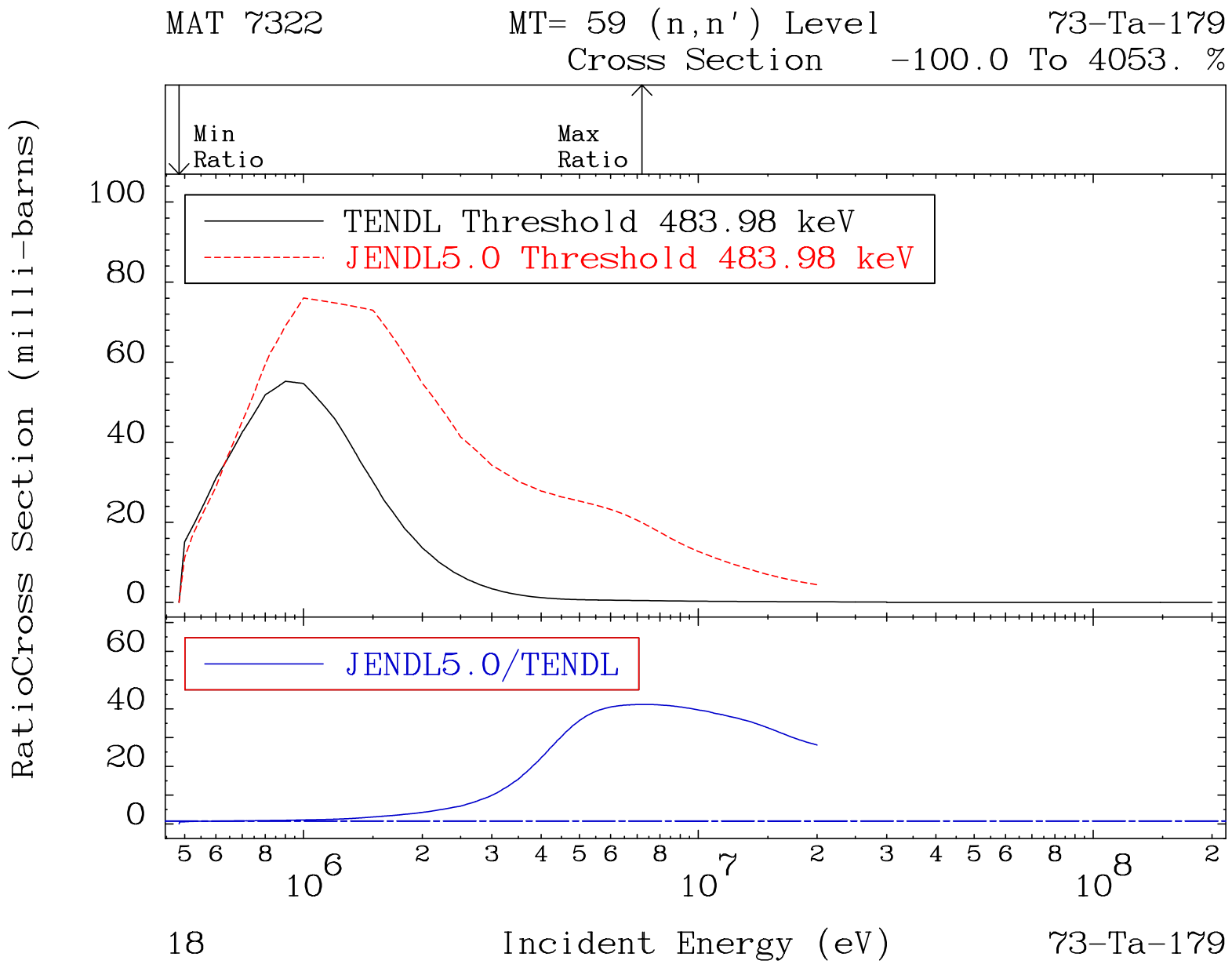

MAT 7322
MT= 54 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 124.8 %
Min Ratio
Max Ratio
TENDL Threshold 239.90 keV
JENDL5.0 Threshold 239.90 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
3.0
2.0
1.0
0.0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
13
Incident Energy (eV)
73-Ta-179

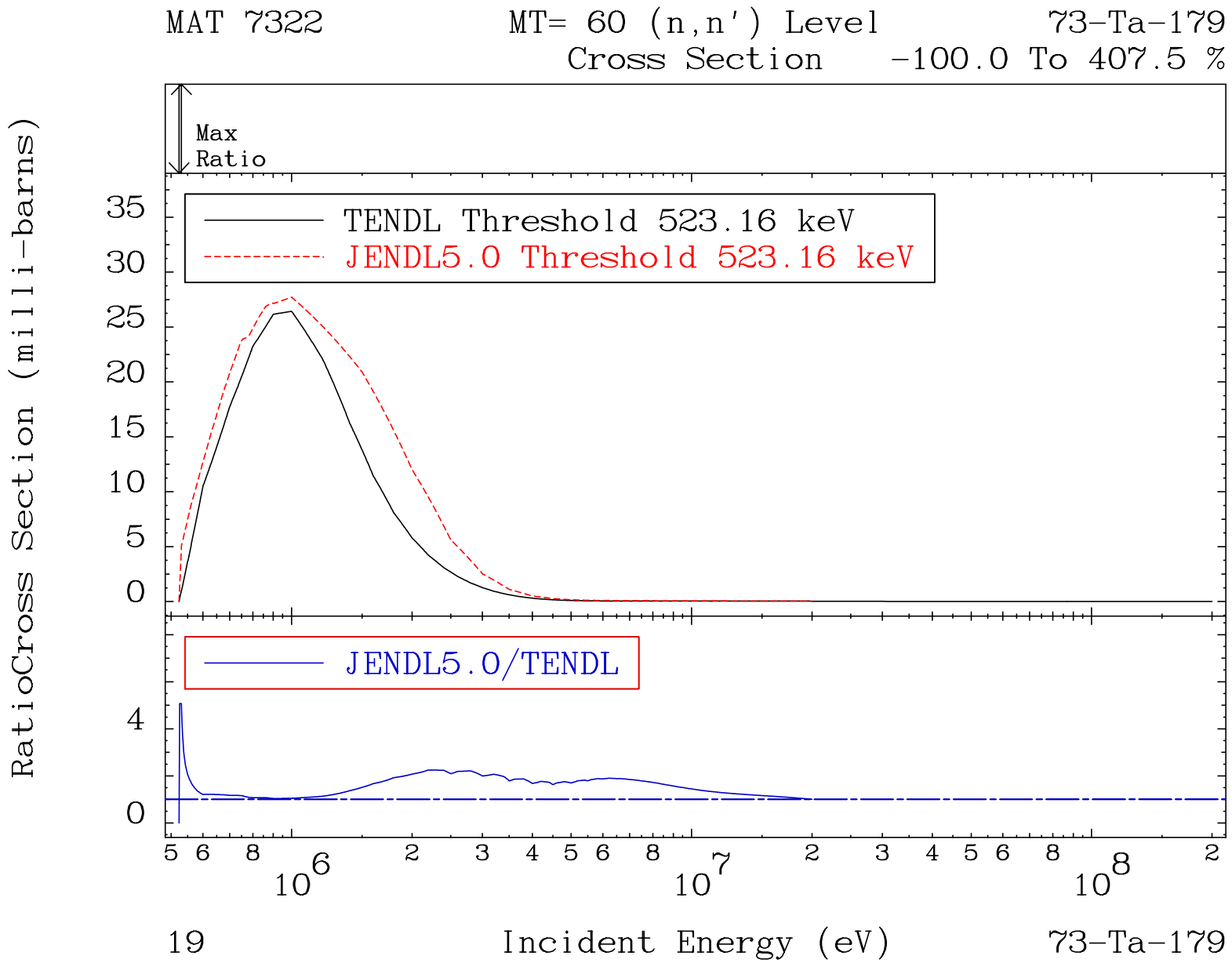

MAT 7322
MT= 55 (n,n') Level
73-Ta-179
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 296.31 keV
JENDL5.0 Threshold 296.31 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
400
200
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
73-Ta-179

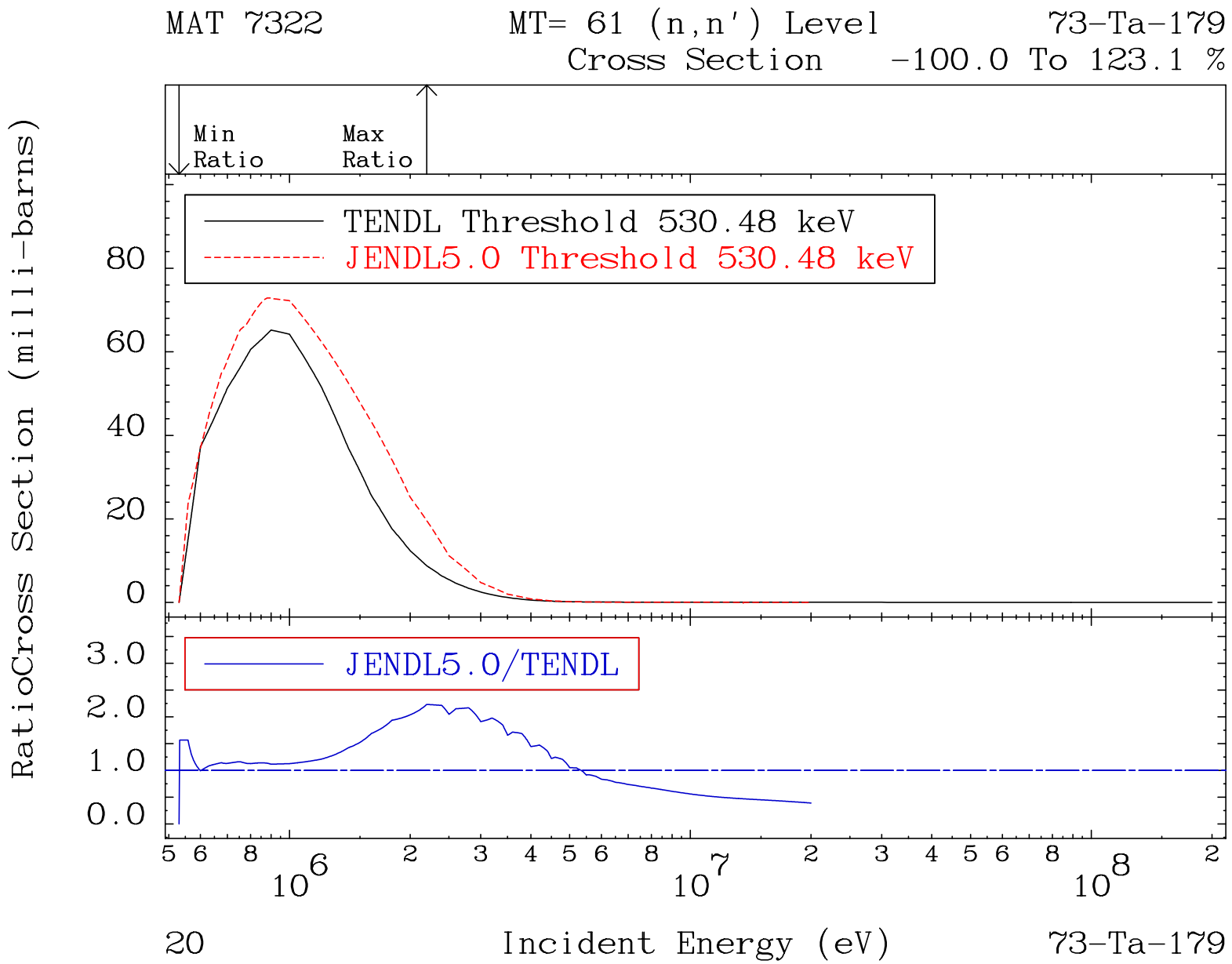

MAT 7322
MT= 56 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 124.2 %
Min Ratio
Max Ratio
TENDL Threshold 345.89 keV
JENDL5.0 Threshold 345.89 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
3.0
2.0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
73-Ta-179

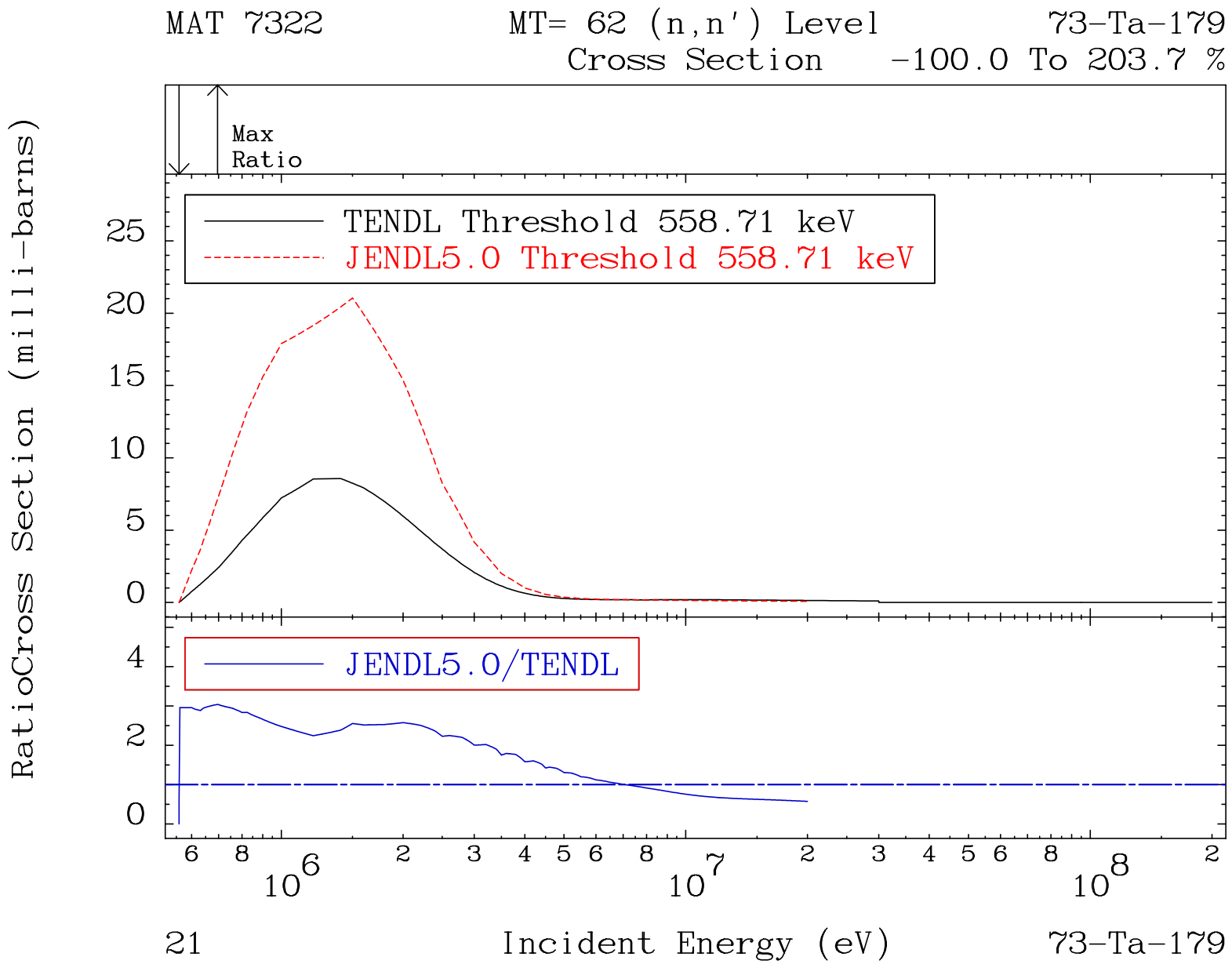

MAT 7322
MT= 57 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 169.5 %
Max
Ratio
TENDL Threshold 358.20 keV
JENDL5.0 Threshold 358.20 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
16
Incident Energy (eV)
73-Ta-179

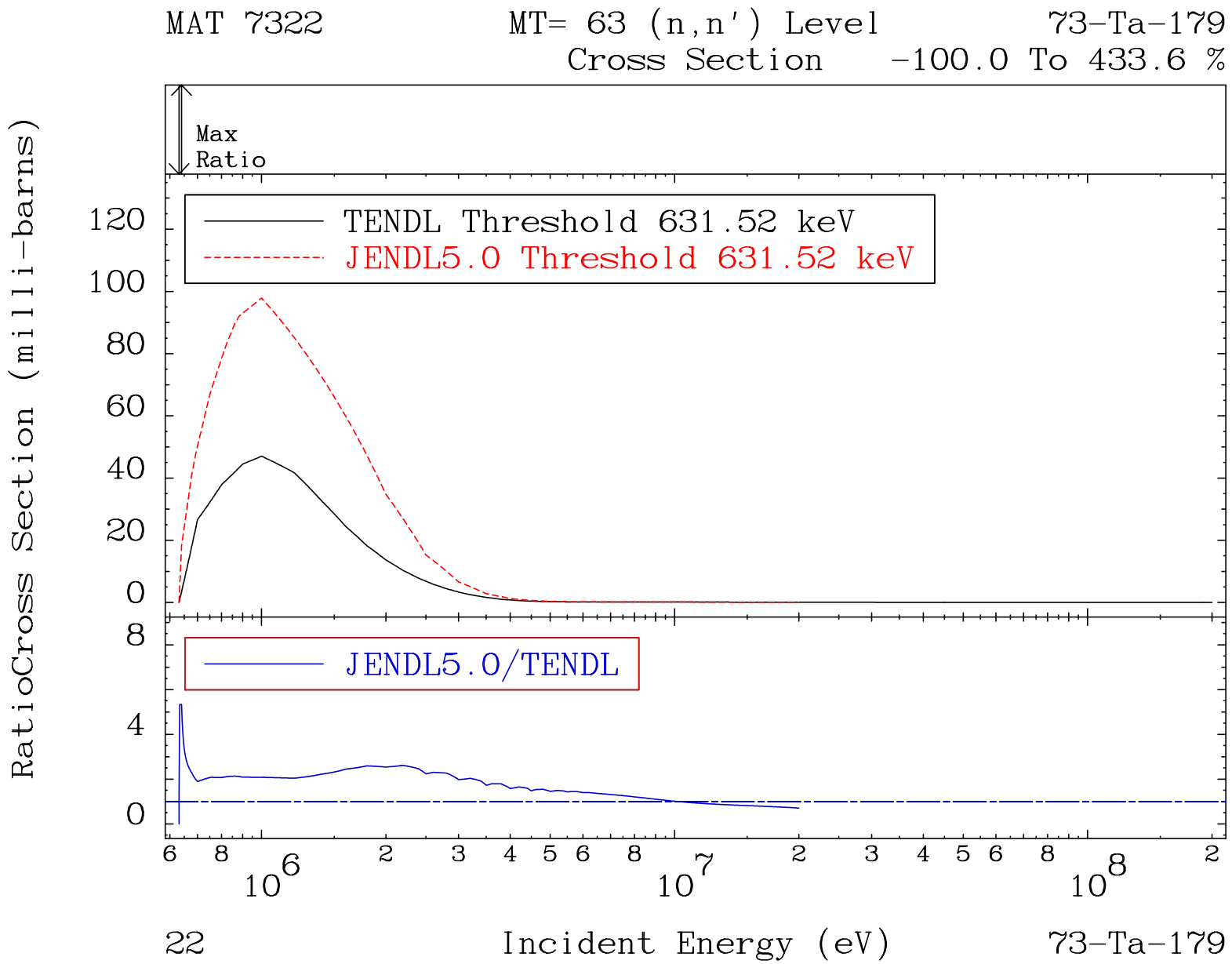

MAT 7322
MT= 58 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 109.0 %
Min Ratio
Max Ratio
TENDL Threshold 479.87 keV
JENDL5.0 Threshold 479.87 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
3.0
2.0
1.0
0.0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
73-Ta-179

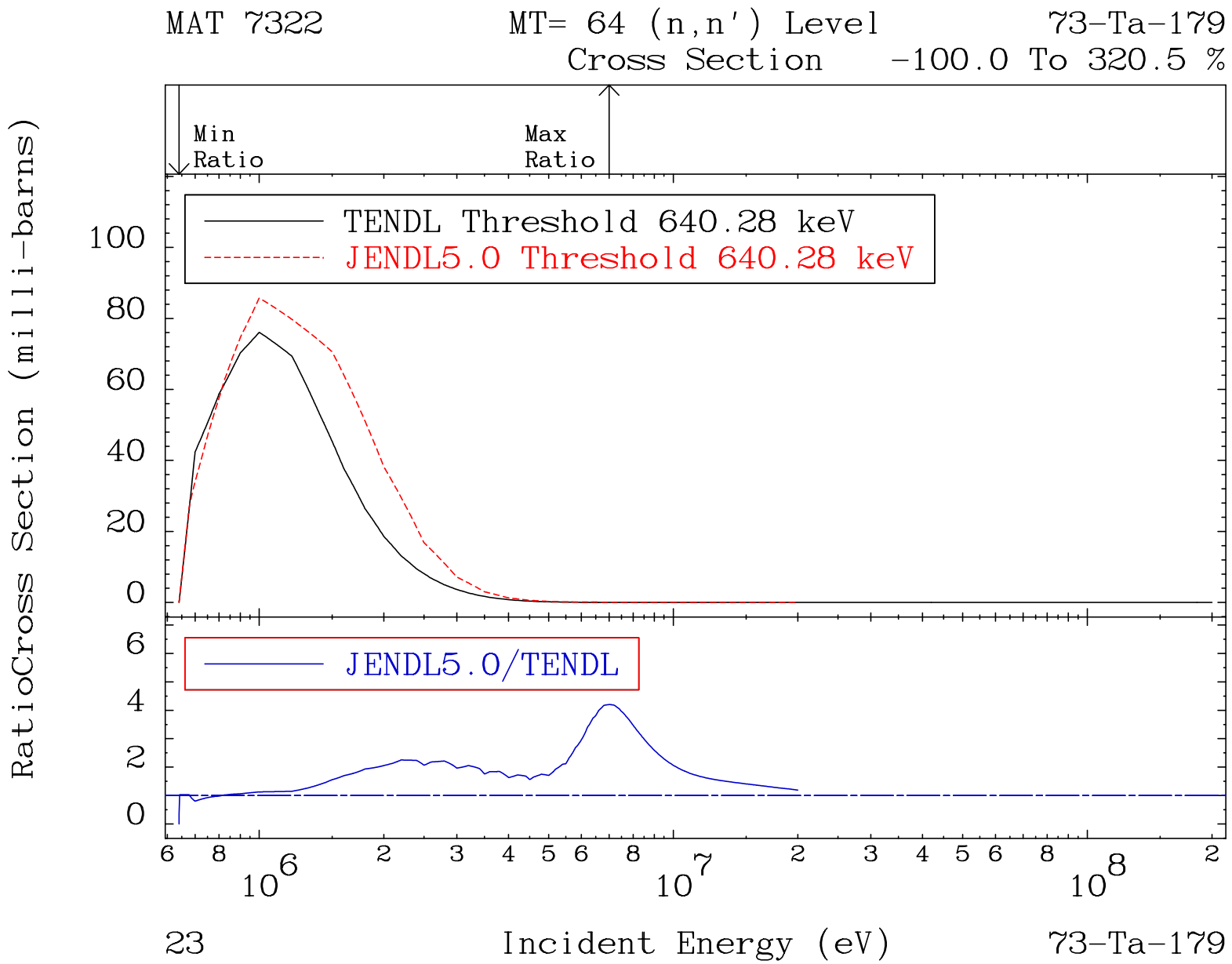

MAT 7322
MT= 59 (n,n') Level
73-Ta-179
Cross Section -100.0 To 4053. %
Min Ratio
Max Ratio
TENDL Threshold 483.98 keV
JENDL5.0 Threshold 483.98 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
73-Ta-179

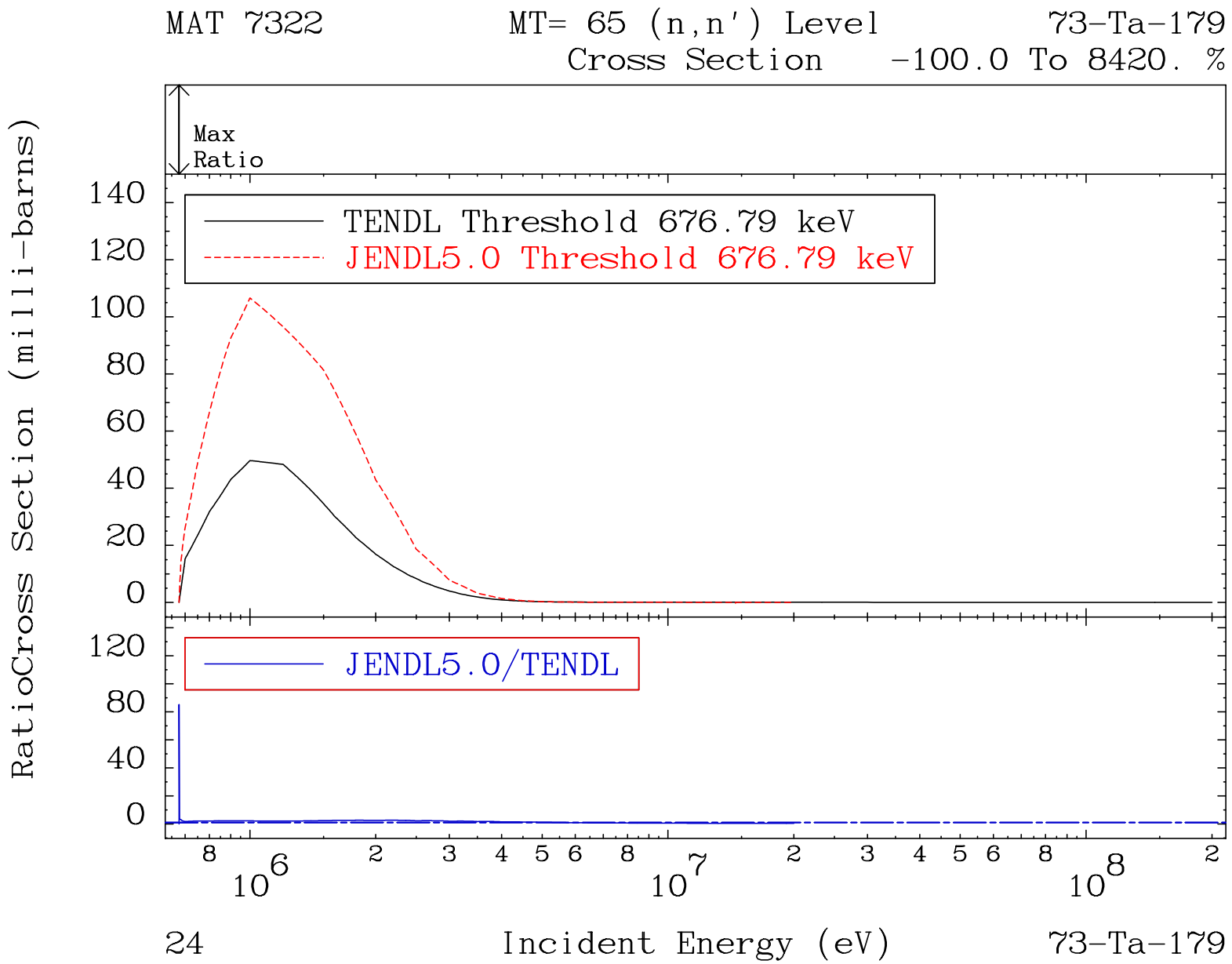

MAT 7322
MT= 60 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 407.5 %
Max
Ratio
TENDL Threshold 523.16 keV
JENDL5.0 Threshold 523.16 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
19
Incident Energy (eV)
73-Ta-179

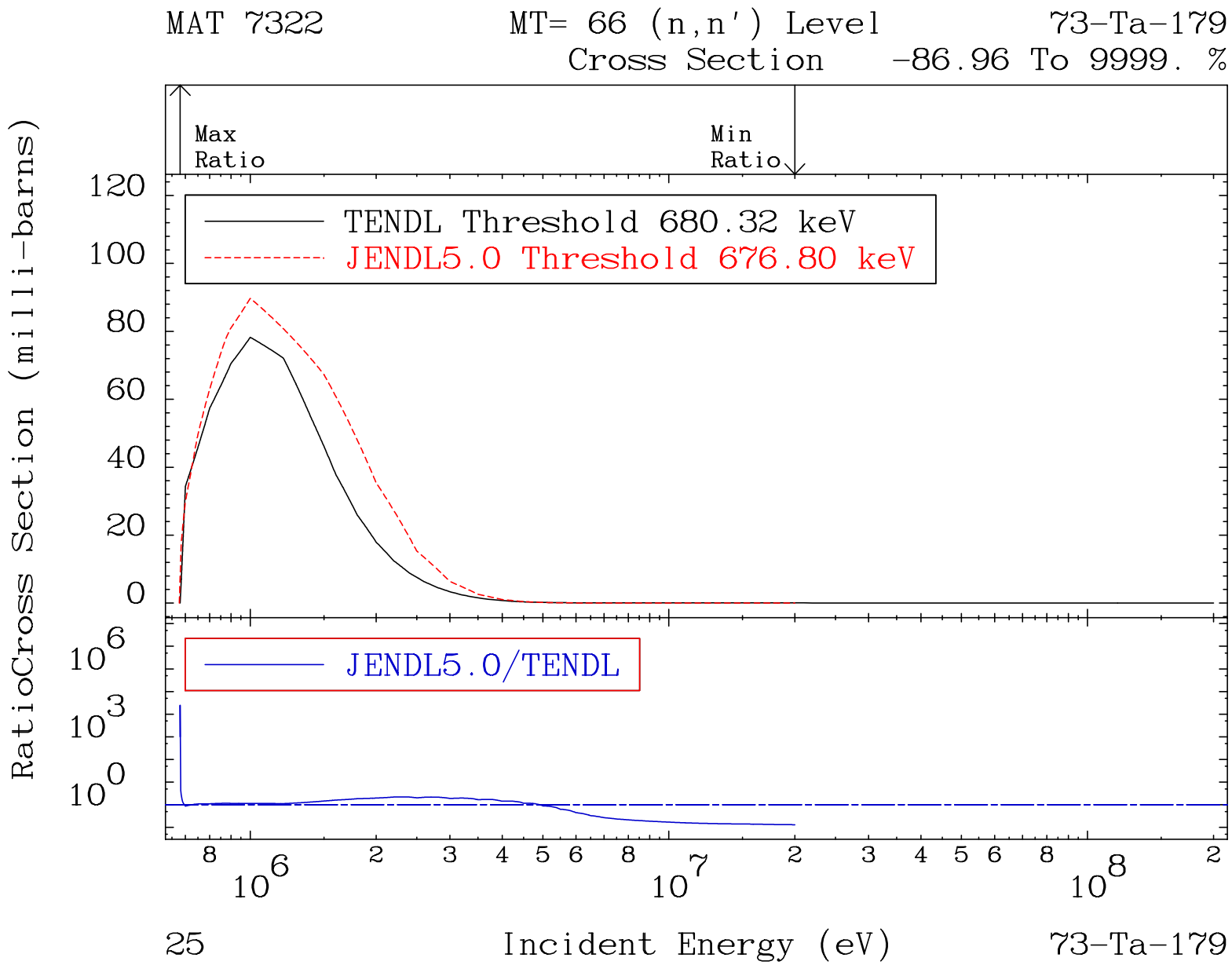

MAT 7322
MT= 61 (n,n') Level
73-Ta-179
Cross Section -100.0 To 123.1 %
Min Ratio
Max Ratio
TENDL Threshold 530.48 keV
JENDL5.0 Threshold 530.48 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
20
73-Ta-179

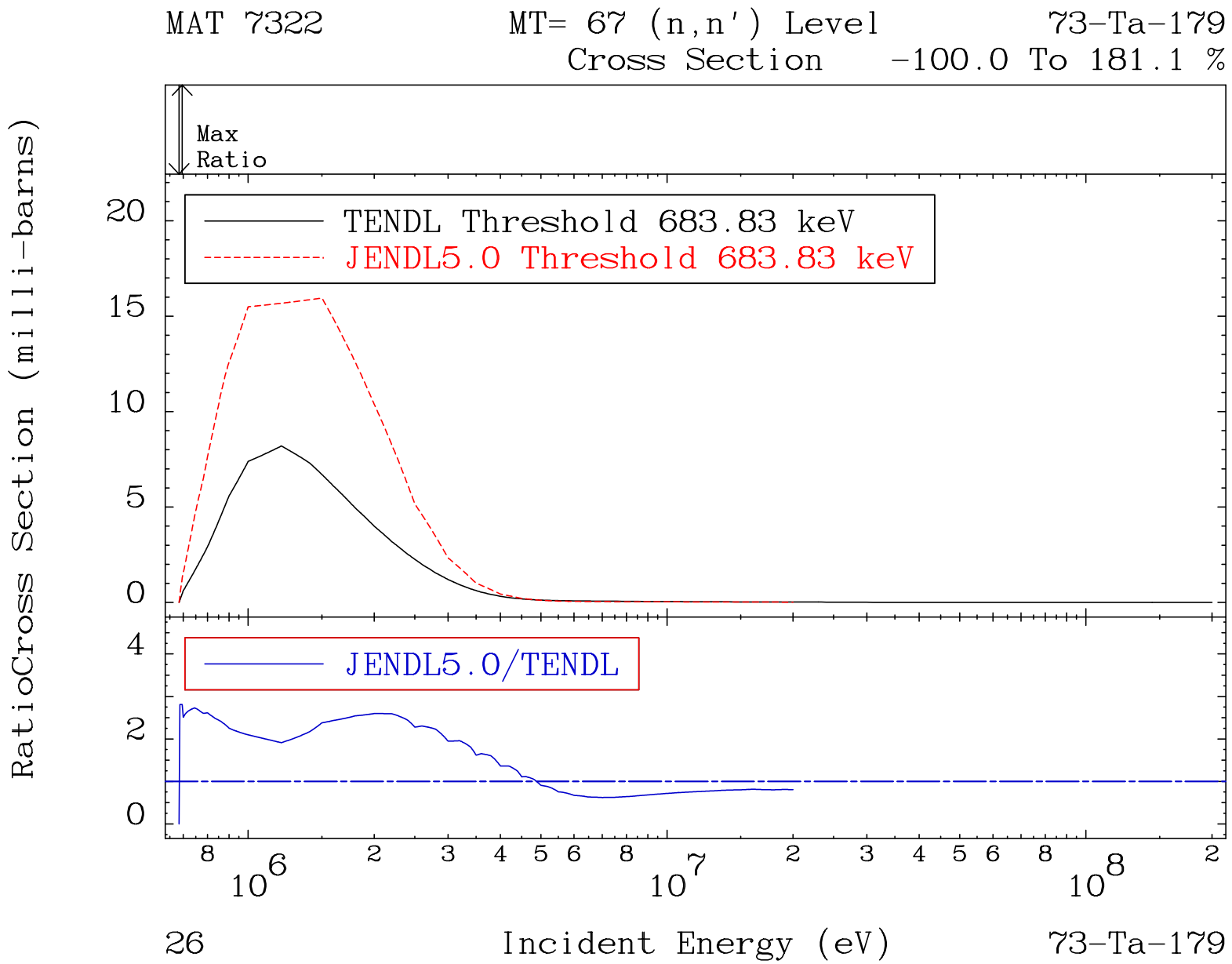

MAT 7322
MT= 62 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 203.7 %
Max
Ratio
TENDL Threshold 558.71 keV
JENDL5.0 Threshold 558.71 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
73-Ta-179

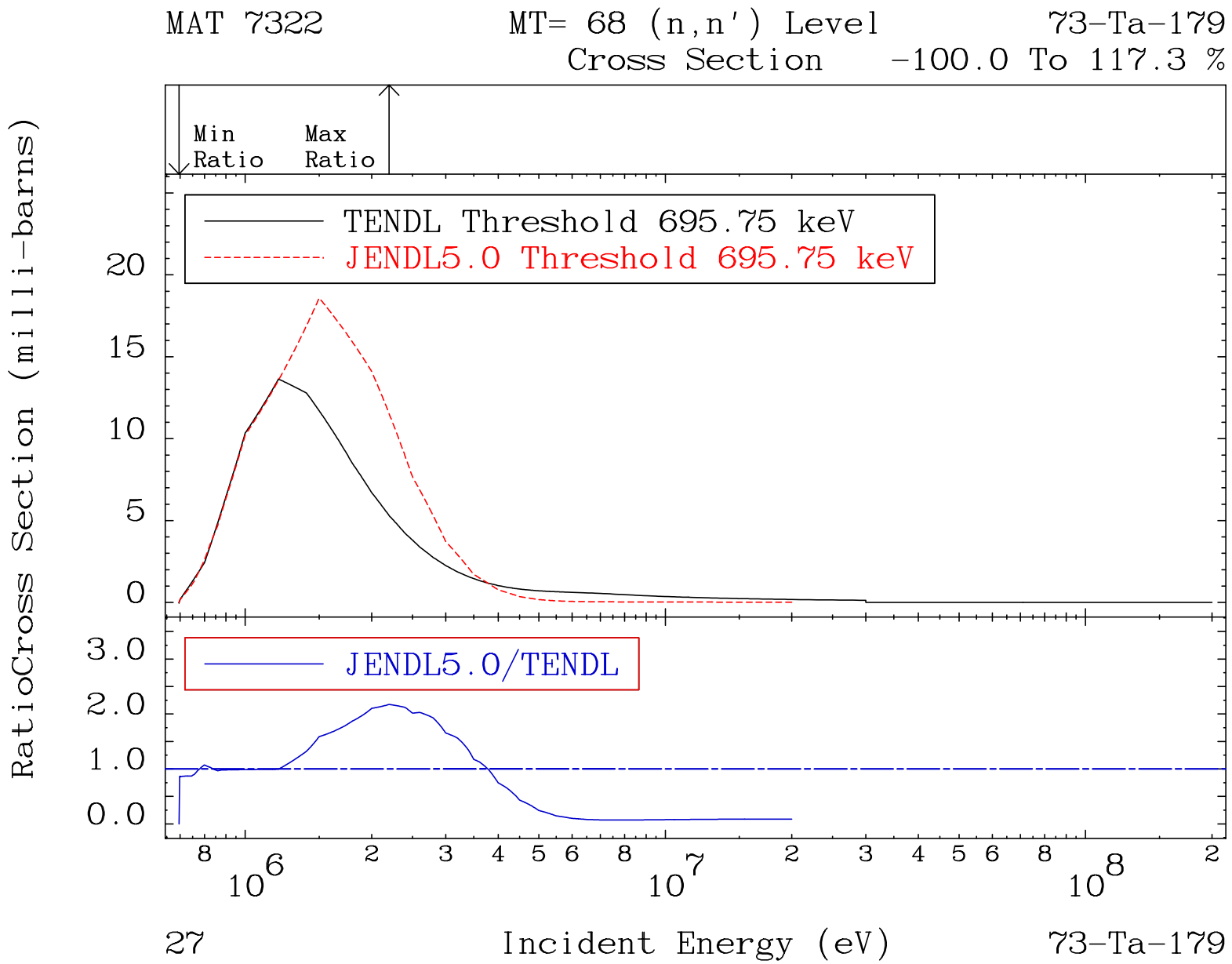

MAT 7322
MT= 63 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 433.6 %
Max
Ratio
TENDL Threshold 631.52 keV
JENDL5.0 Threshold 631.52 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
8
4
0
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
22
Incident Energy (eV)
73-Ta-179

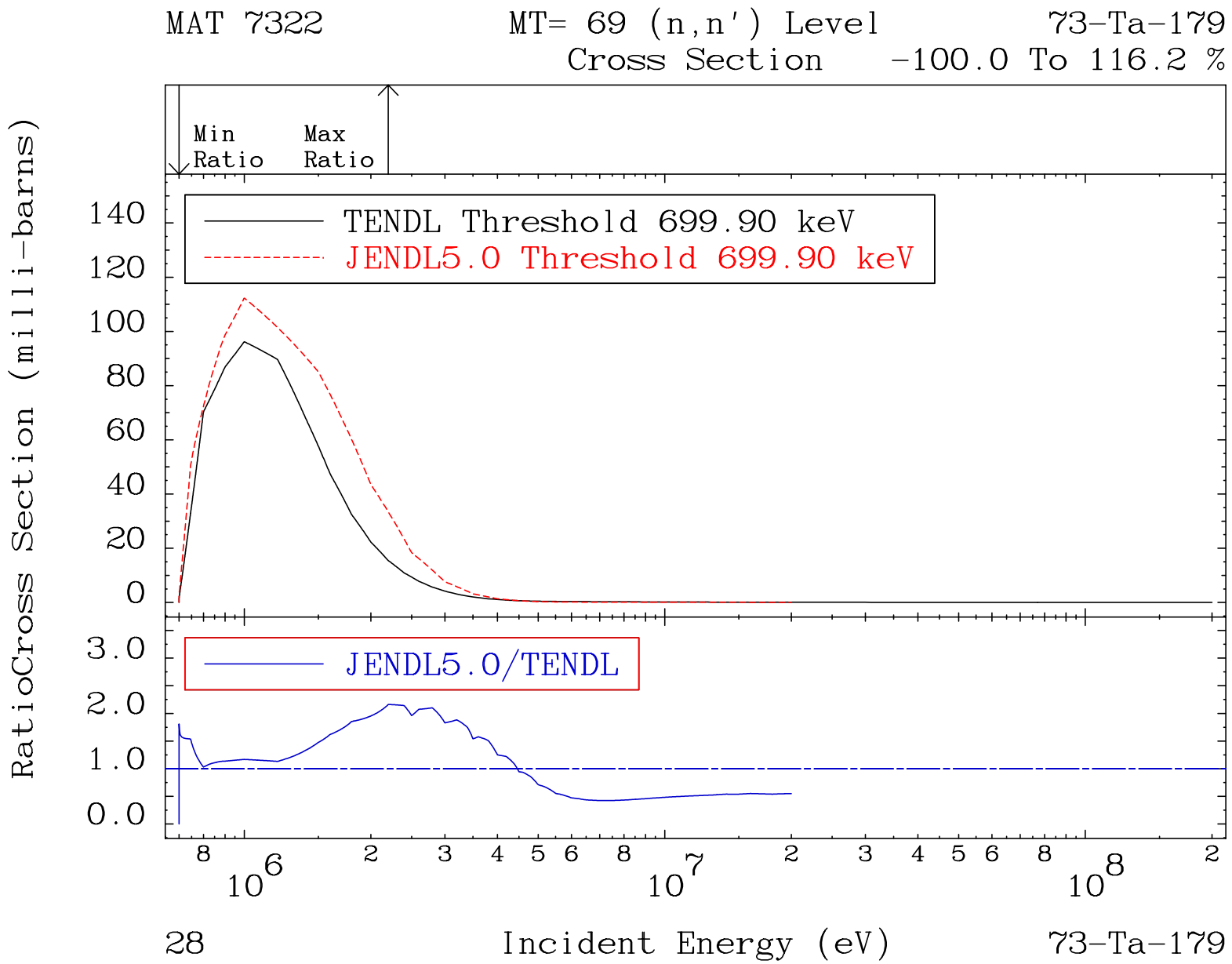

MAT 7322
MT= 64 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 320.5 %
Min Ratio
Max Ratio
TENDL Threshold 640.28 keV
JENDL5.0 Threshold 640.28 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
73-Ta-179

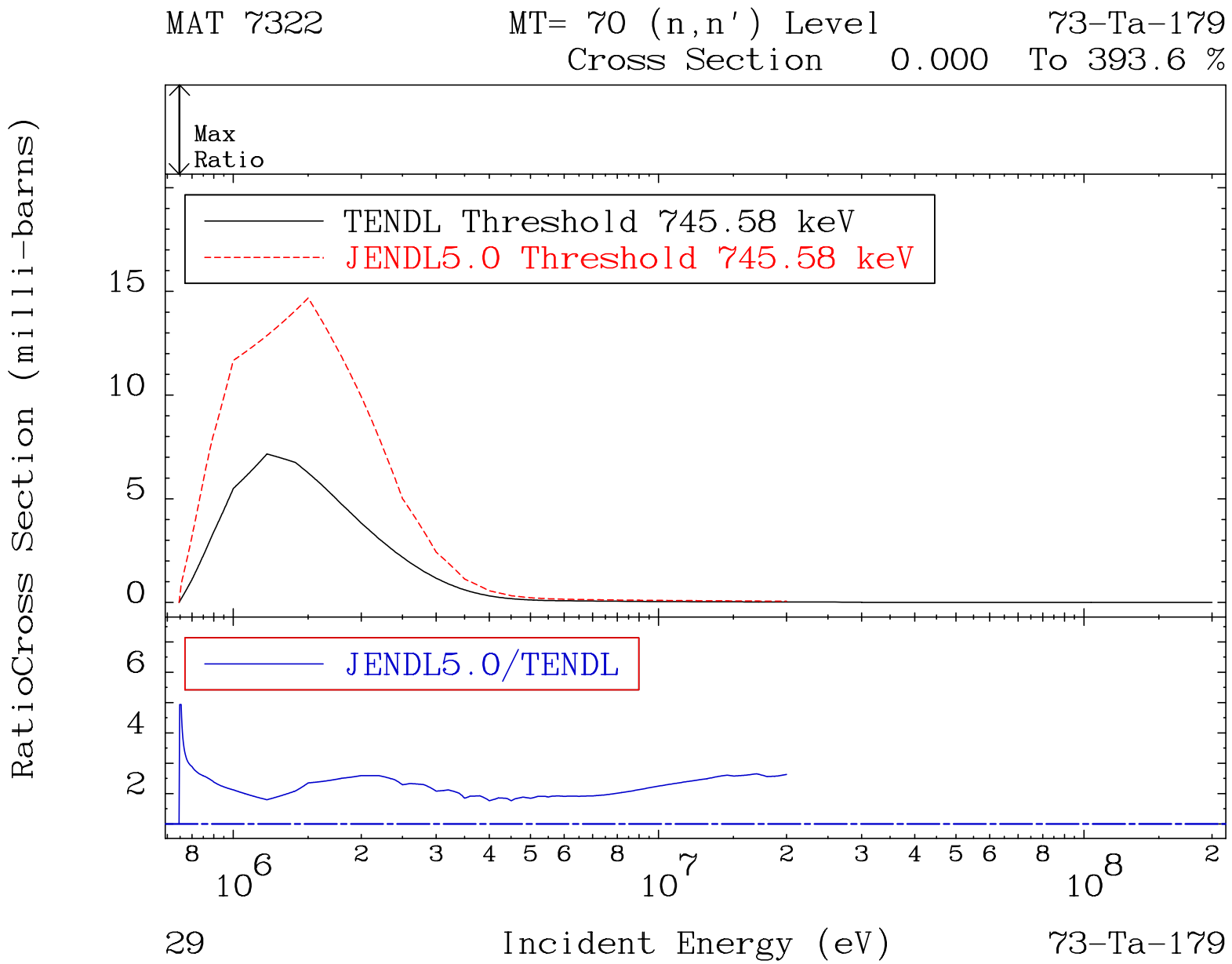

MAT 7322
MT= 65 (n,n') Level
73-Ta-179
Cross Section -100.0 To 8420. %
Max
Ratio
TENDL Threshold 676.79 keV
JENDL5.0 Threshold 676.79 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
120
80
40
0
8
2
3
4
5
6
8
2
3
4
5
6
8
2
10^6
10^7
10^8
24
Incident Energy (eV)
73-Ta-179

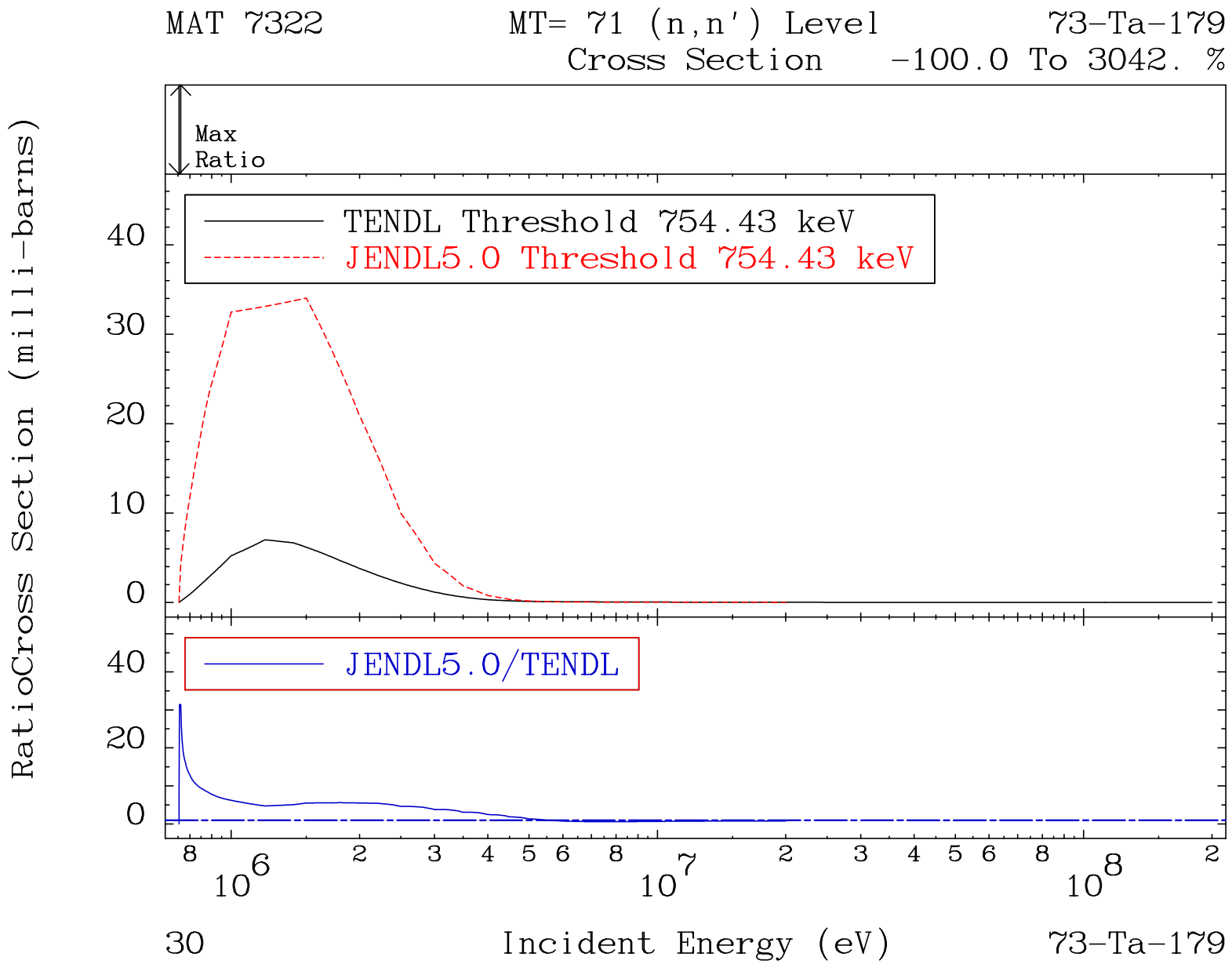

MAT 7322
MT= 66 (n,n') Level
73-Ta-179
Cross Section -86.96 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 680.32 keV
JENDL5.0 Threshold 676.80 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^6
10^3
10^0
8
2
3
4
5
6
8
10^6
10^7
10^8
25
Incident Energy (eV)
73-Ta-179

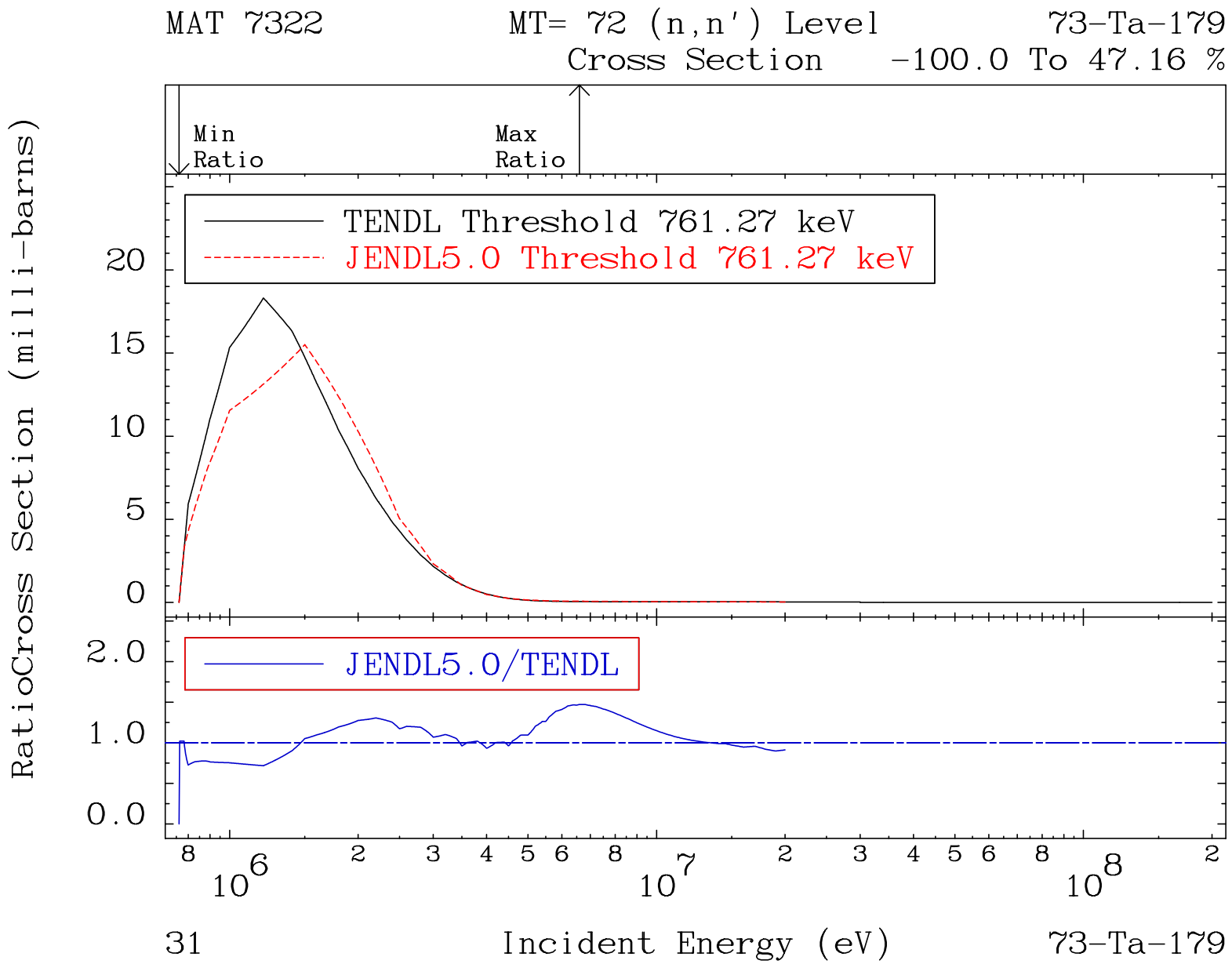

MAT 7322
MT= 67 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 181.1 %
Max
Ratio
TENDL Threshold 683.83 keV
JENDL5.0 Threshold 683.83 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
26
73-Ta-179

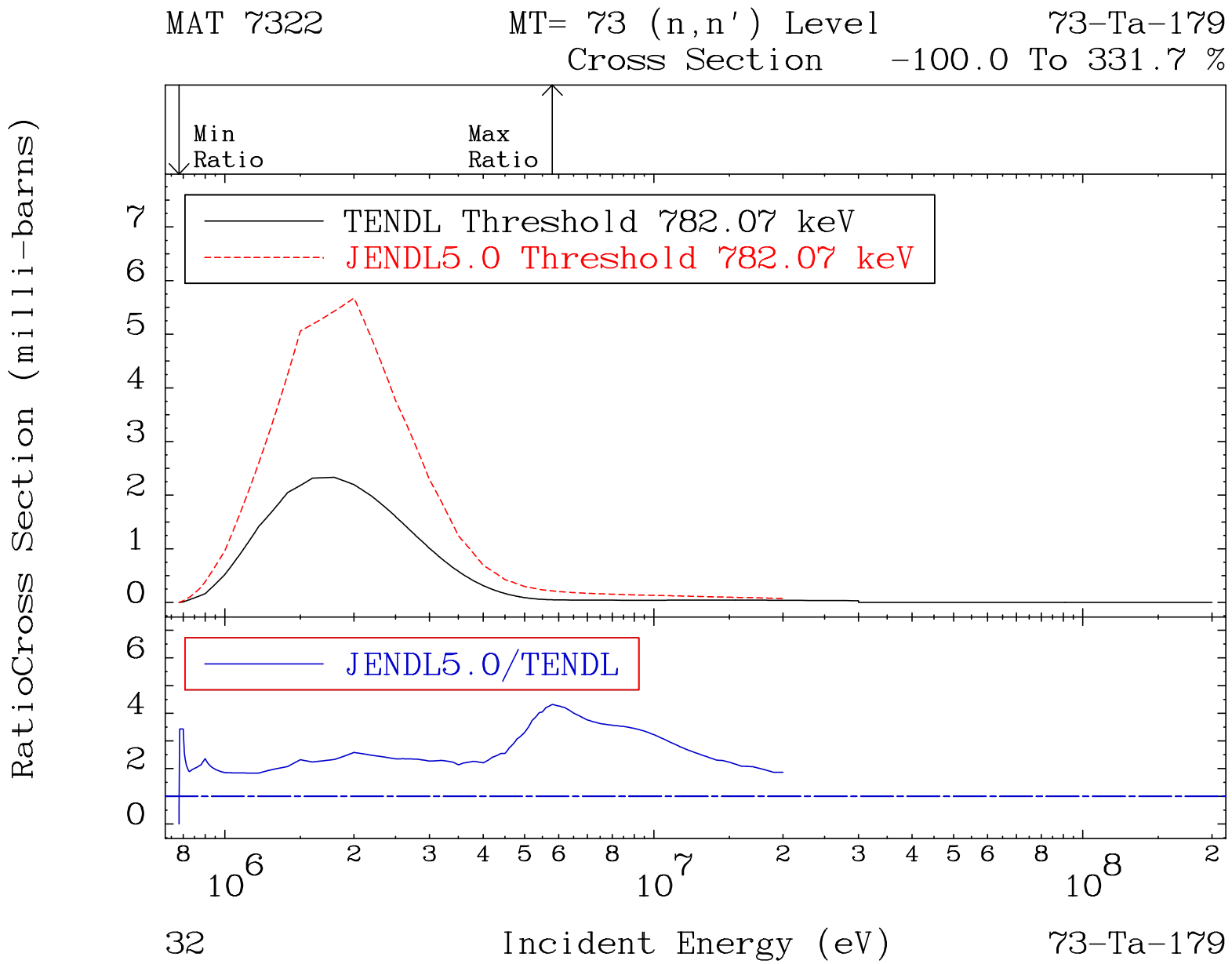

MAT 7322
MT= 68 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 117.3 %
Min Ratio
Max Ratio
TENDL Threshold 695.75 keV
JENDL5.0 Threshold 695.75 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
27
73-Ta-179

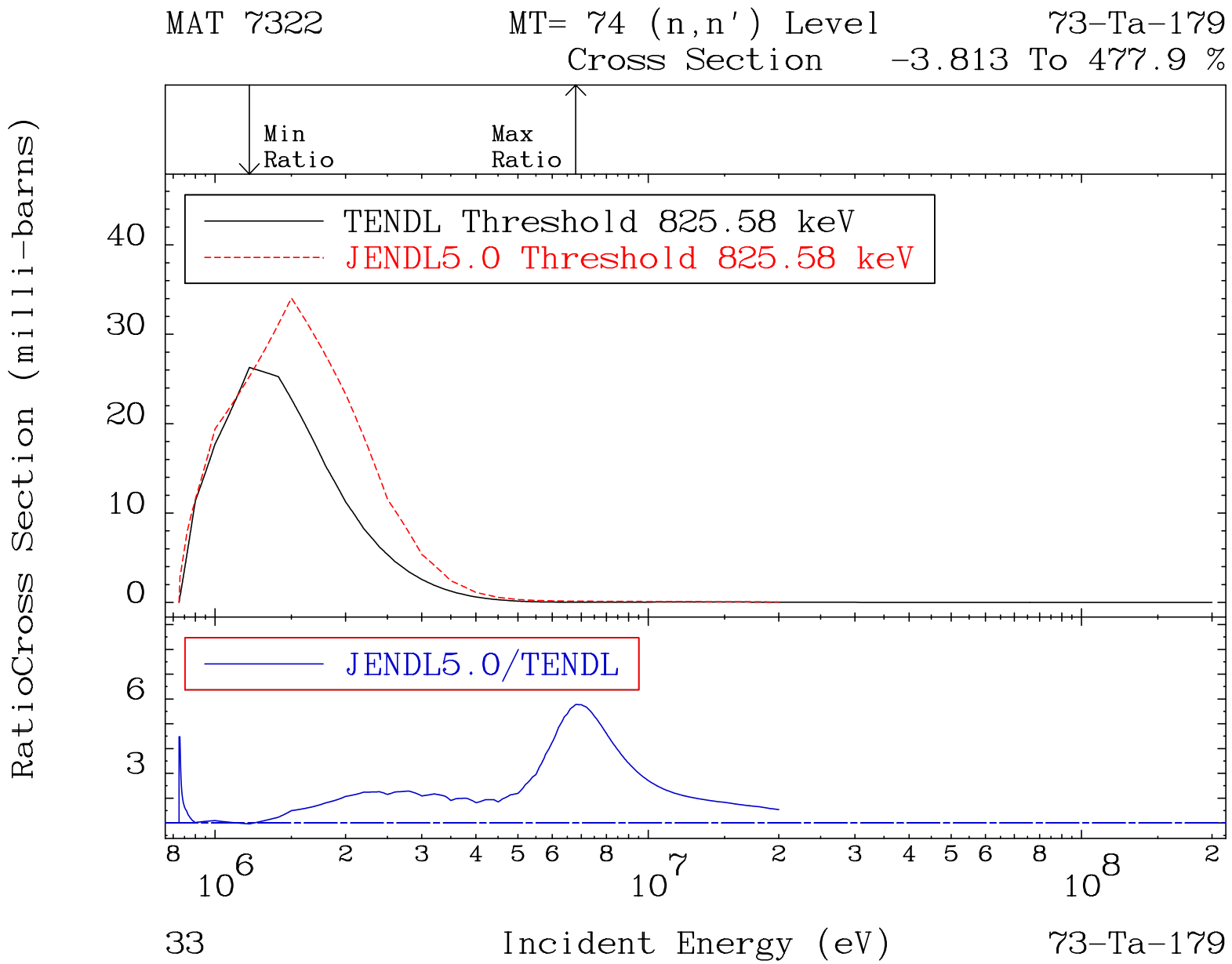

MAT 7322
MT= 69 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 116.2 %
Min Ratio
Max Ratio
TENDL Threshold 699.90 keV
JENDL5.0 Threshold 699.90 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
28
Incident Energy (eV)
73-Ta-179

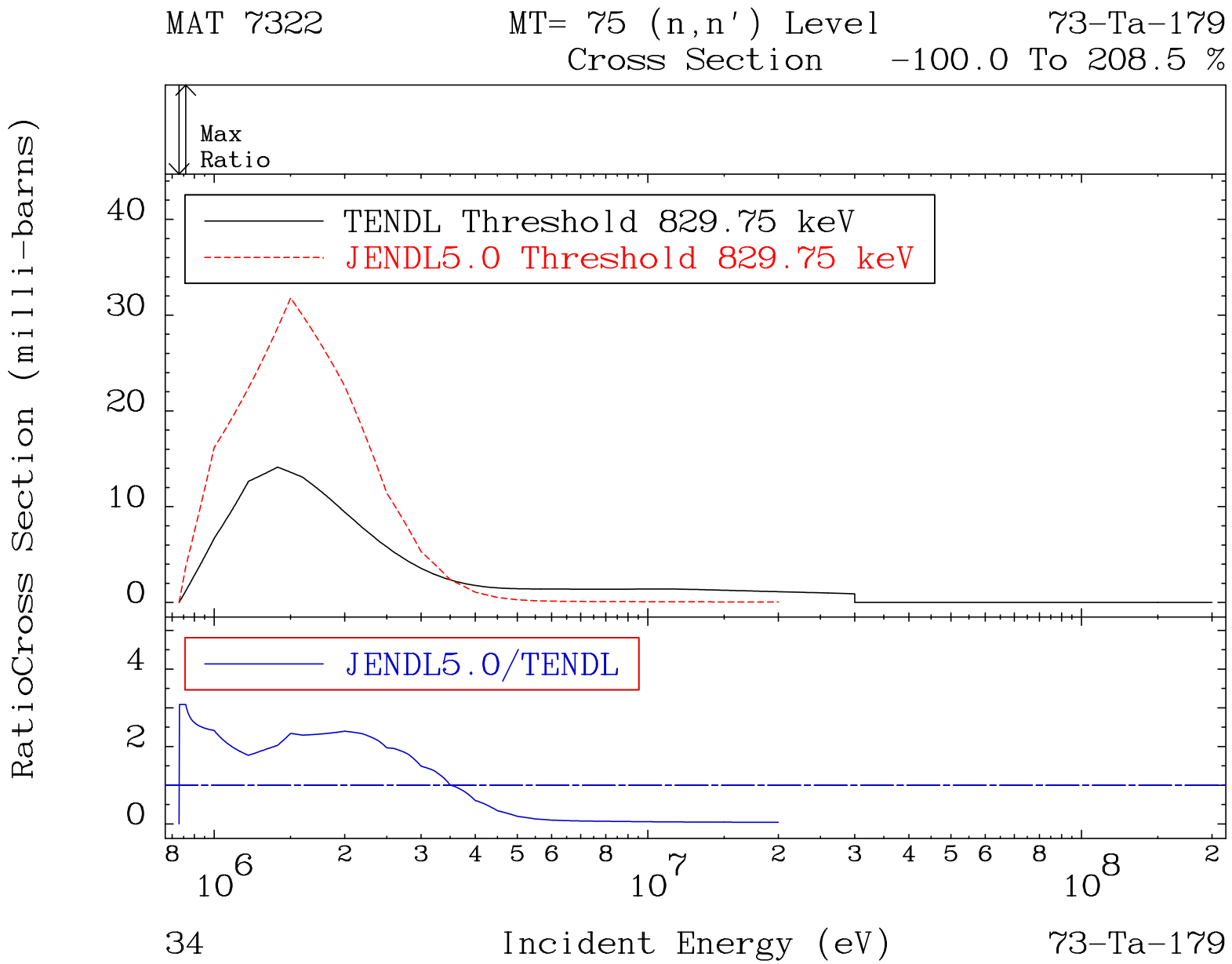

MAT 7322
MT= 70 (n,n') Level
73-Ta-179
Cross Section 0.000 To 393.6 %
Max
Ratio
TENDL Threshold 745.58 keV
JENDL5.0 Threshold 745.58 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
6
4
2
8
2
3
4
5
6
8
10^6
10^7
10^8
29
Incident Energy (eV)
73-Ta-179

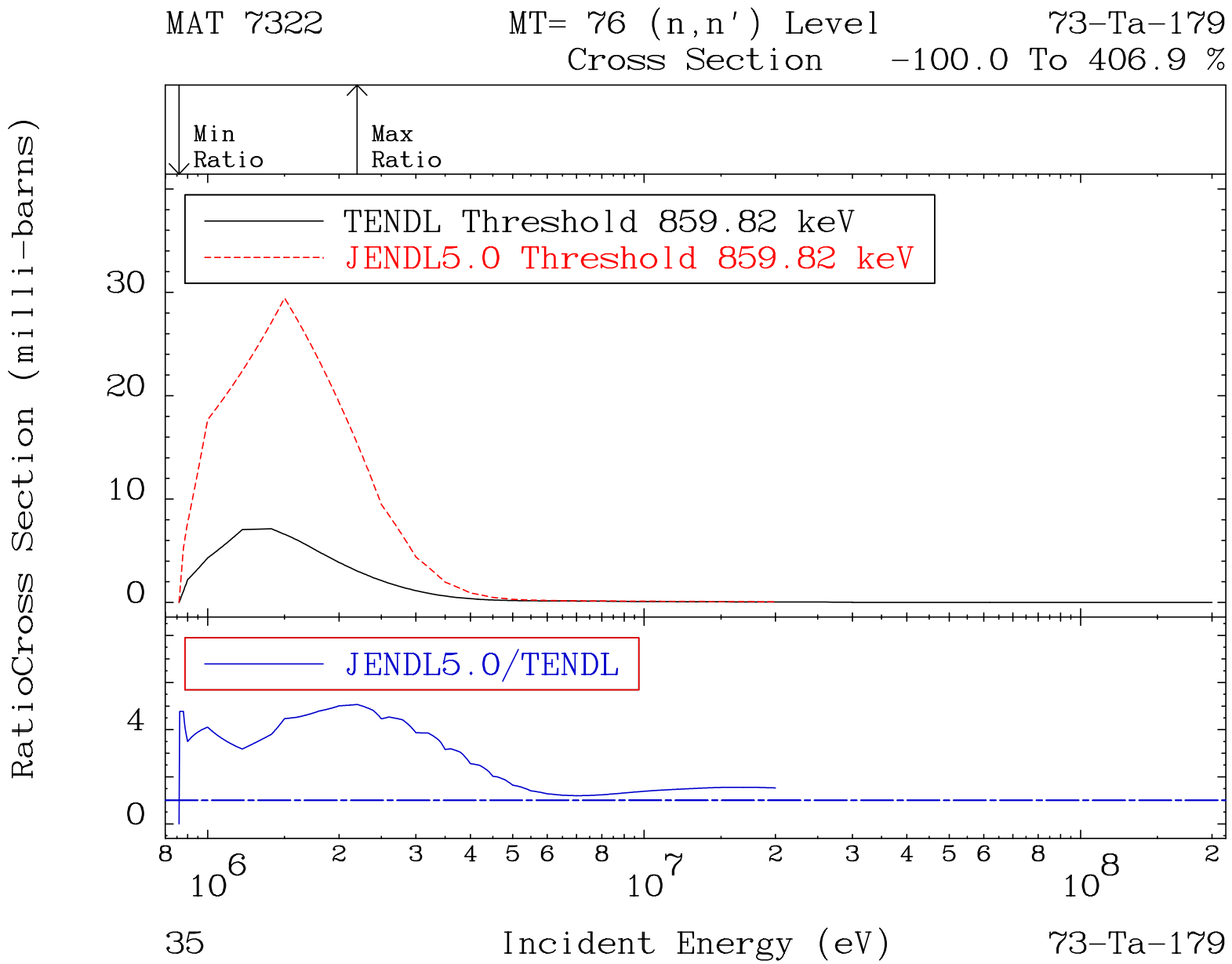

MAT 7322
MT= 71 (n,n') Level
73-Ta-179
Cross Section -100.0 To 3042. %
Max
Ratio
TENDL Threshold 754.43 keV
JENDL5.0 Threshold 754.43 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
40
20
0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
30
Incident Energy (eV)
73-Ta-179

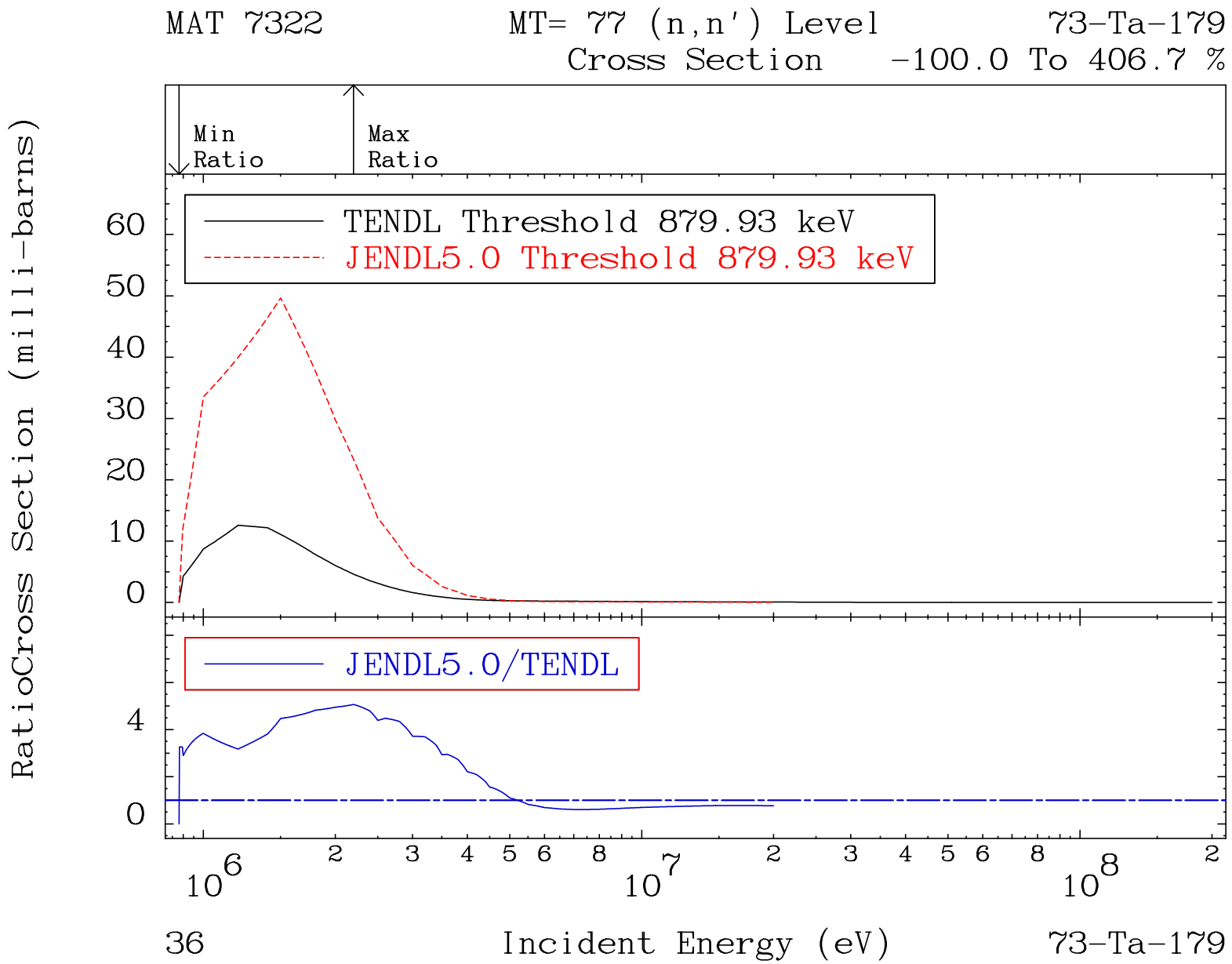

MAT 7322
MT= 72 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 47.16 %
Min Ratio
Max Ratio
TENDL Threshold 761.27 keV
JENDL5.0 Threshold 761.27 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
31
73-Ta-179

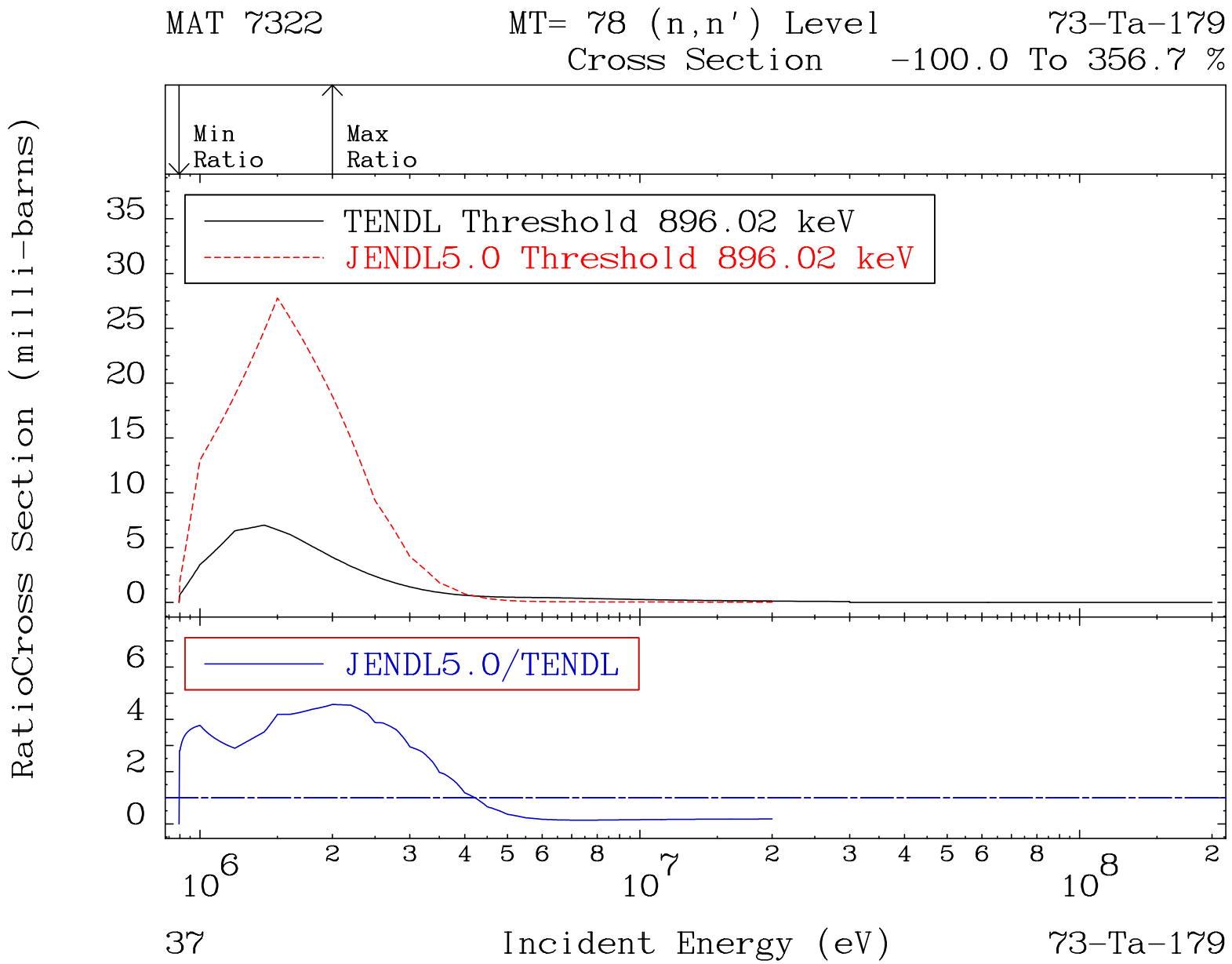

MAT 7322
MT= 73 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 331.7 %
Min Ratio
Max Ratio
TENDL Threshold 782.07 keV
JENDL5.0 Threshold 782.07 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
32
73-Ta-179

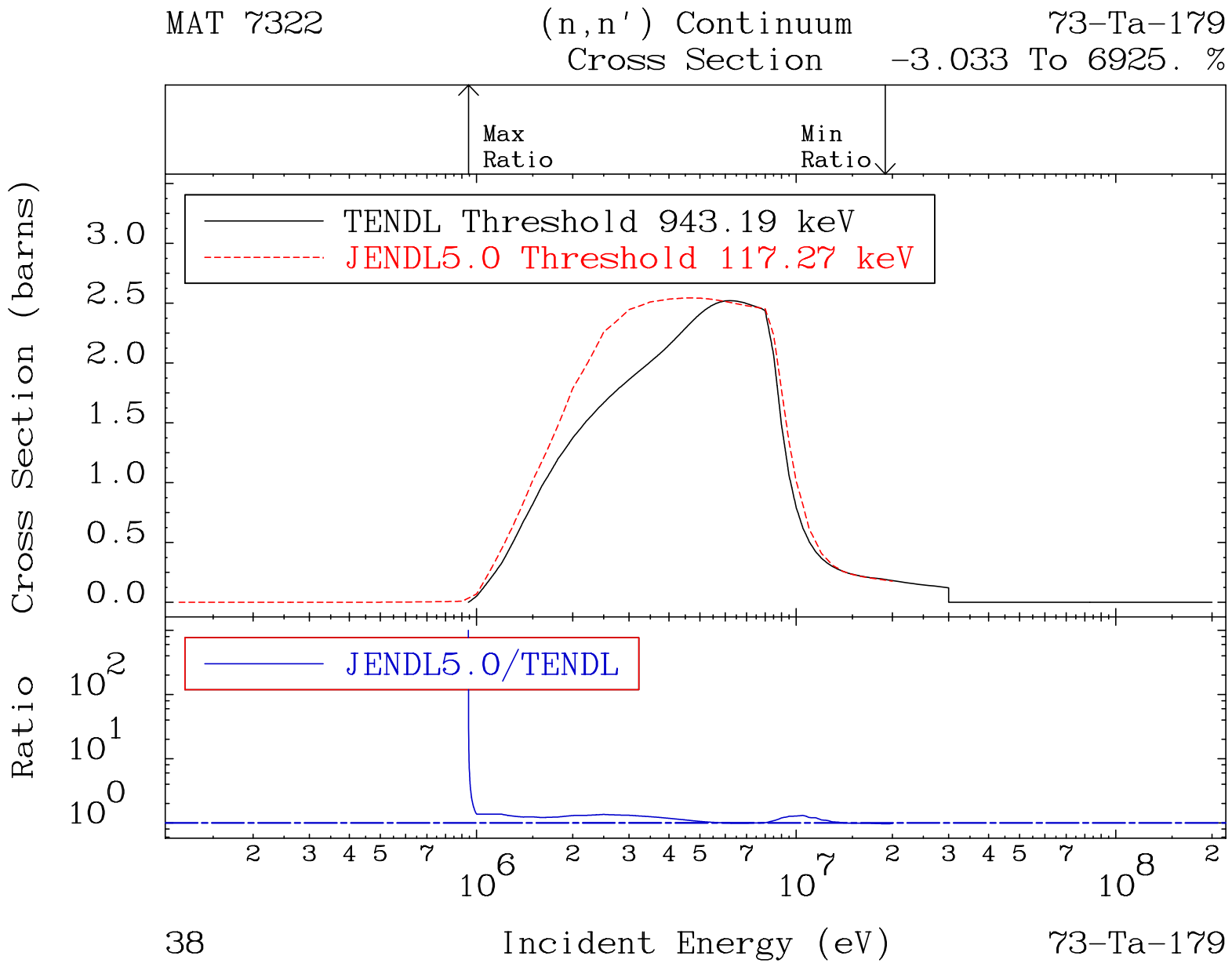

MAT 7322
MT= 74 (n,n') Level
73-Ta-179
Cross Section -3.813 To 477.9 %
Min Ratio
Max Ratio
TENDL Threshold 825.58 keV
JENDL5.0 Threshold 825.58 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6
3
8
2
3
4
5
6
8
10^6
10^7
10^8
33
Incident Energy (eV)
73-Ta-179

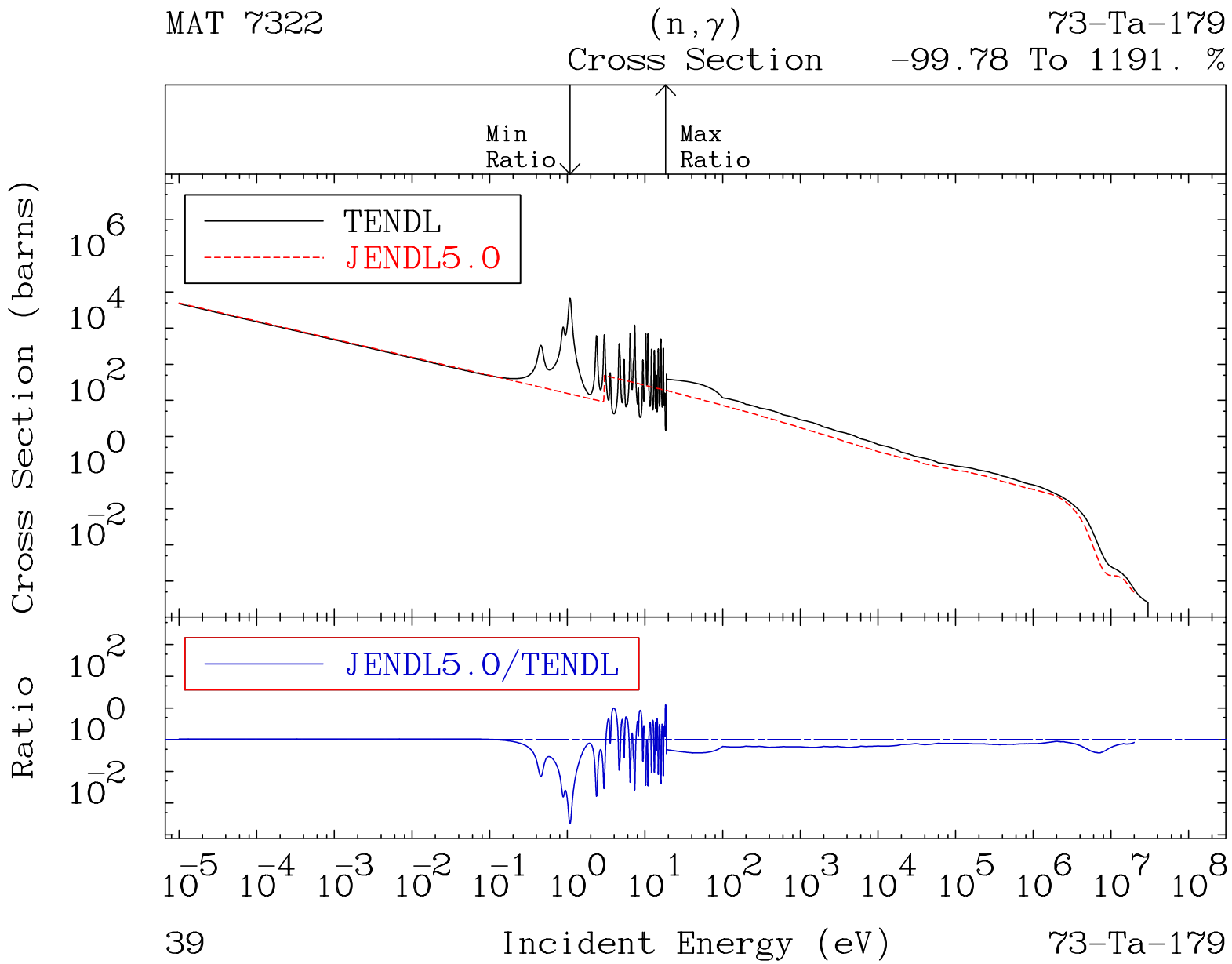

MAT 7322
MT= 75 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 208.5 %
Max
Ratio
TENDL Threshold 829.75 keV
JENDL5.0 Threshold 829.75 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
8
2
3
4
5
6
8
10^6
10^7
10^8
34
Incident Energy (eV)
73-Ta-179

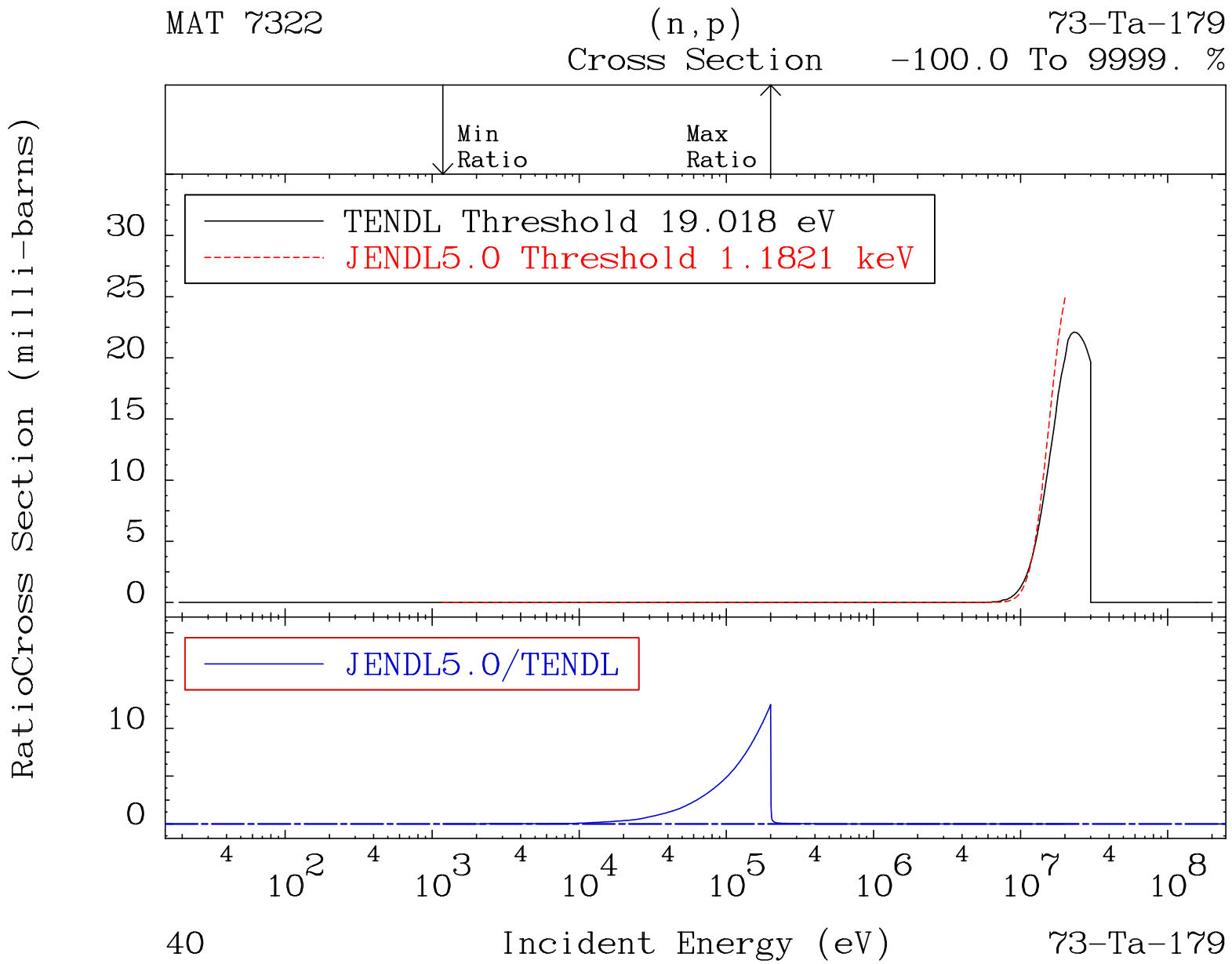

MAT 7322
MT= 76 (n,n') Level
73-Ta-179
Cross Section -100.0 To 406.9 %
Min Ratio
Max Ratio
TENDL Threshold 859.82 keV
JENDL5.0 Threshold 859.82 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
4
0
8
2
3
4
5
6
8
10^6
10^7
10^8
35
Incident Energy (eV)
73-Ta-179

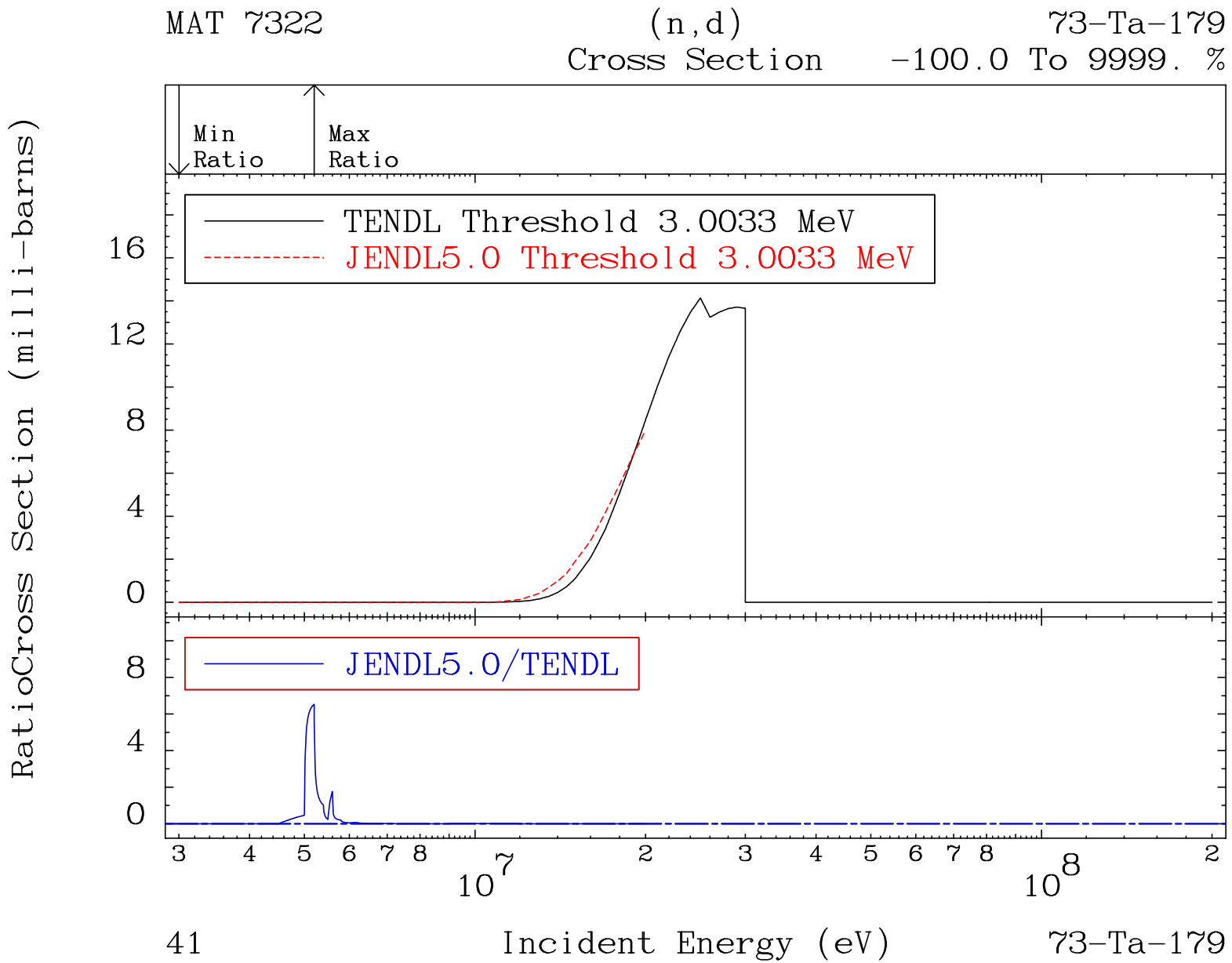

MAT 7322
MT= 77 (n,n') Level
73-Ta-179
Cross Section -100.0 To 406.7 %
Min Ratio
Max Ratio
TENDL Threshold 879.93 keV
JENDL5.0 Threshold 879.93 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
36
Incident Energy (eV)
73-Ta-179

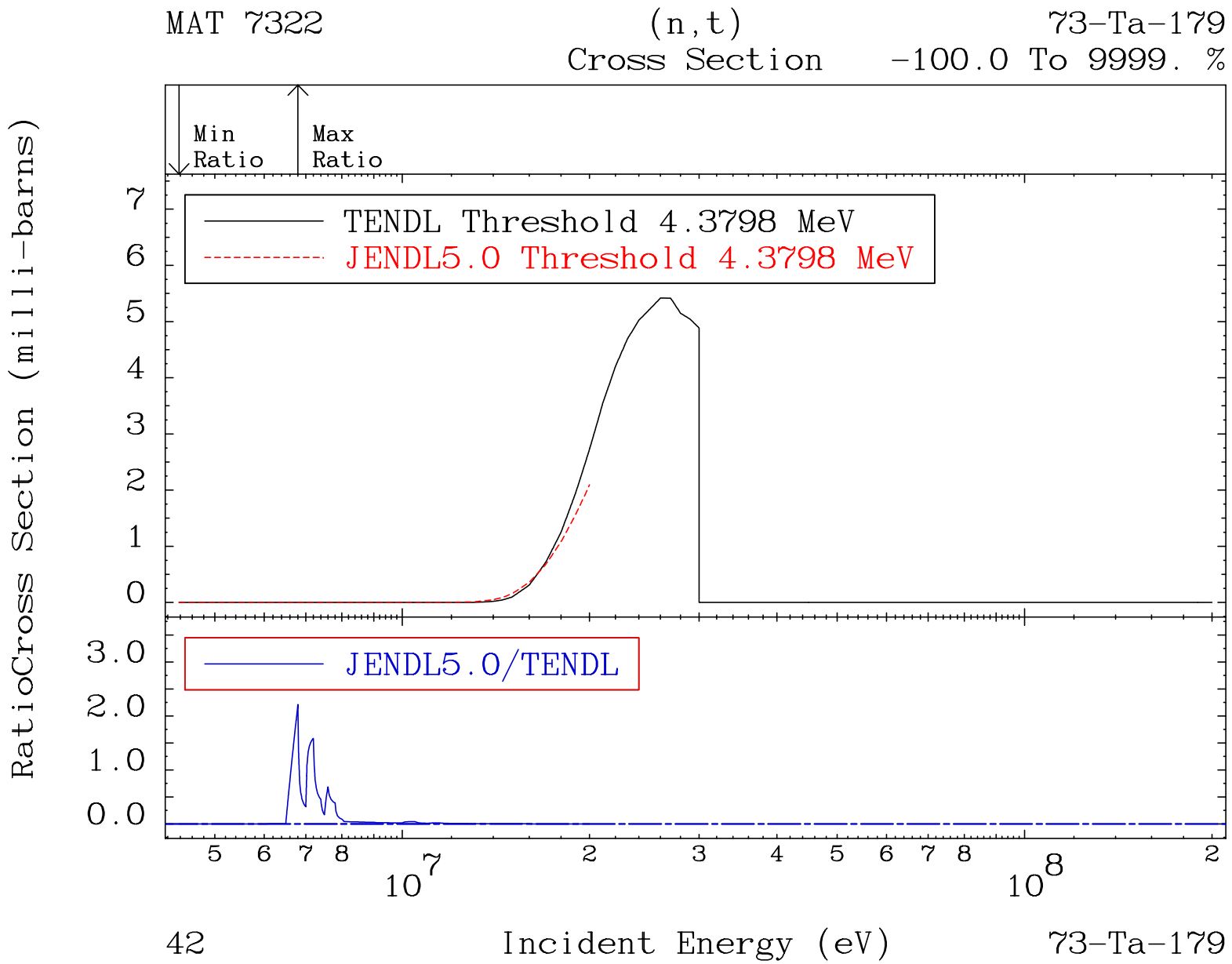

MAT 7322
MT= 78 (n,n') Level
73-Ta-179
Cross Section
-100.0 To 356.7 %
Min Ratio
Max Ratio
TENDL Threshold 896.02 keV
JENDL5.0 Threshold 896.02 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
73-Ta-179

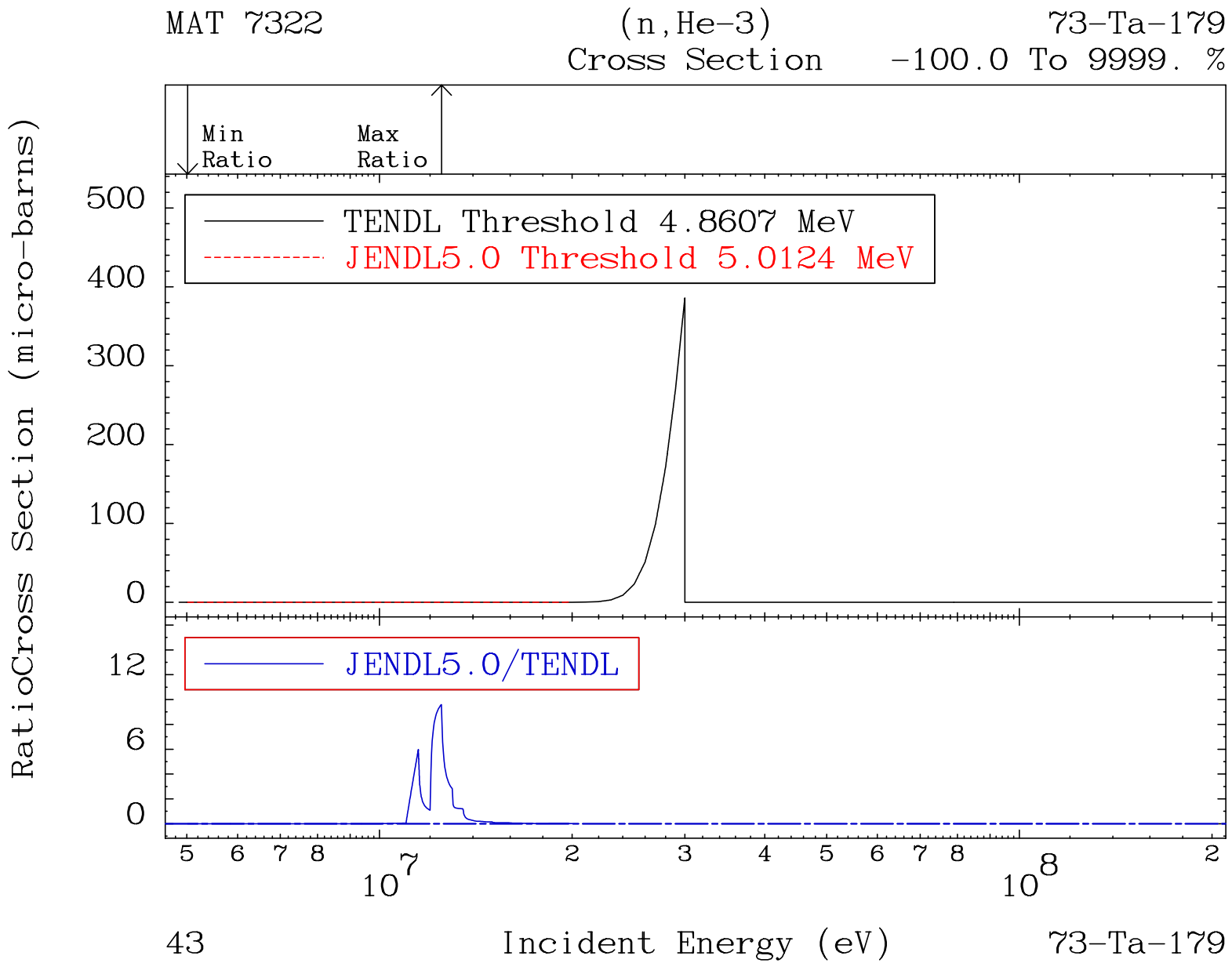

MAT 7322
(n,n') Continuum
Cross Section
73-Ta-179
-3.033 To 6925. %
Max
Ratio
Min
Ratio
TENDL Threshold 943.19 keV
JENDL5.0 Threshold 117.27 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
10^2
10^1
10^0
2 3 4 5 7
10^6
2 3 4 5 7
10^7
2 3 4 5 7
10^8
2
38
Incident Energy (eV)
73-Ta-179

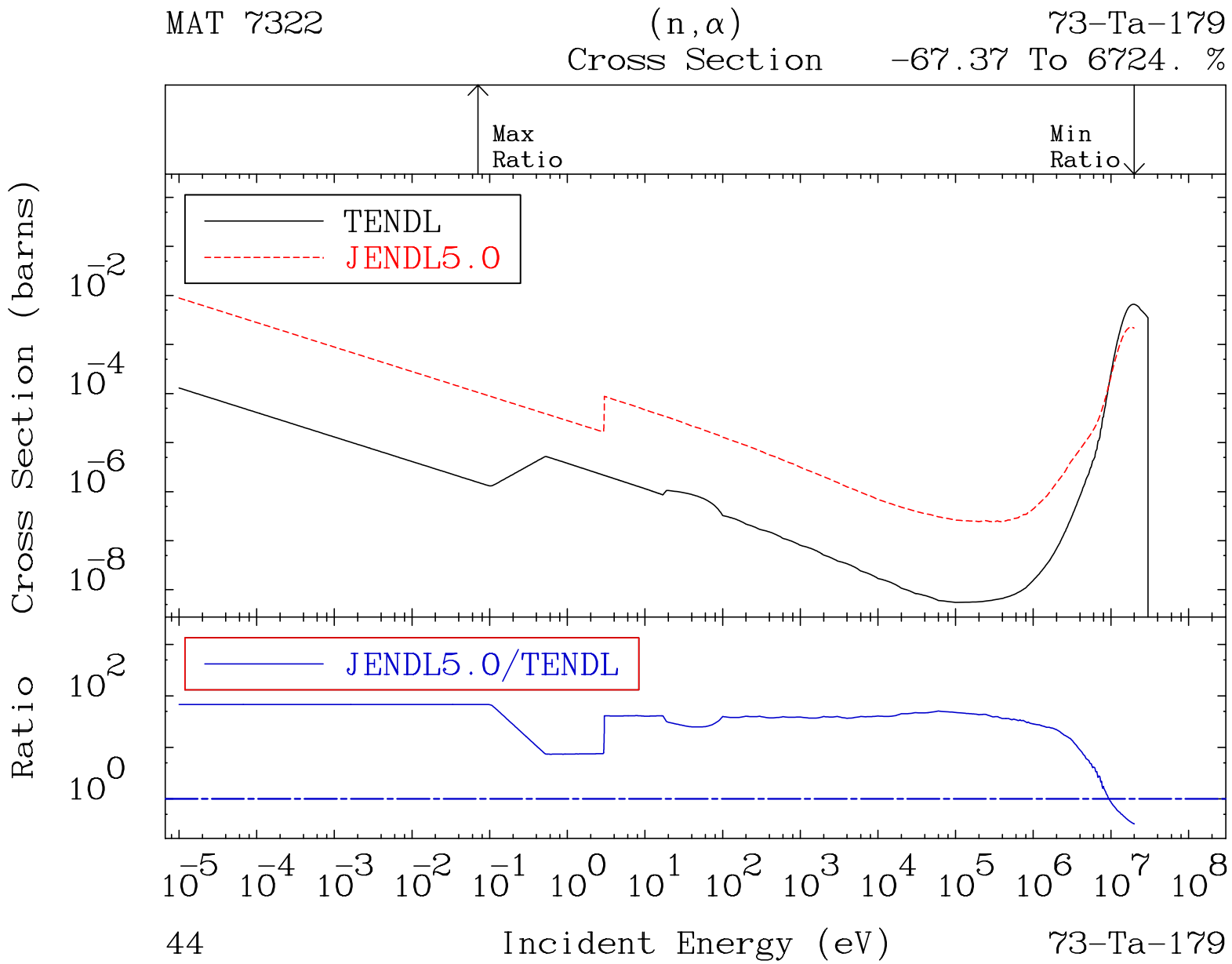

MAT 7322
(n,γ)
Cross Section
73-Ta-179
-99.78 To 1191. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
73-Ta-179

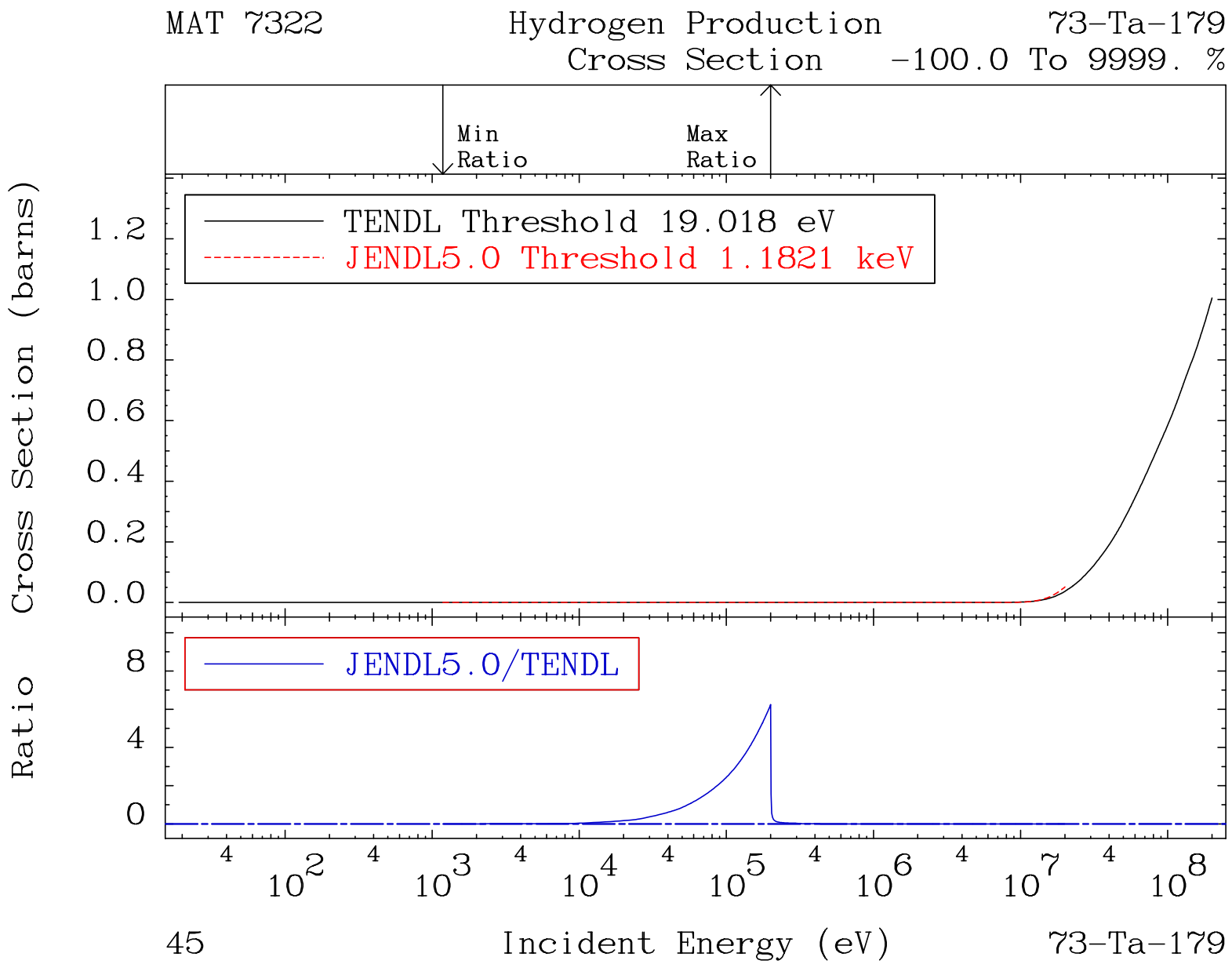

MAT 7322
(n,p)
Cross Section
73-Ta-179
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 19.018 eV
JENDL5.0 Threshold 1.1821 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
40
73-Ta-179

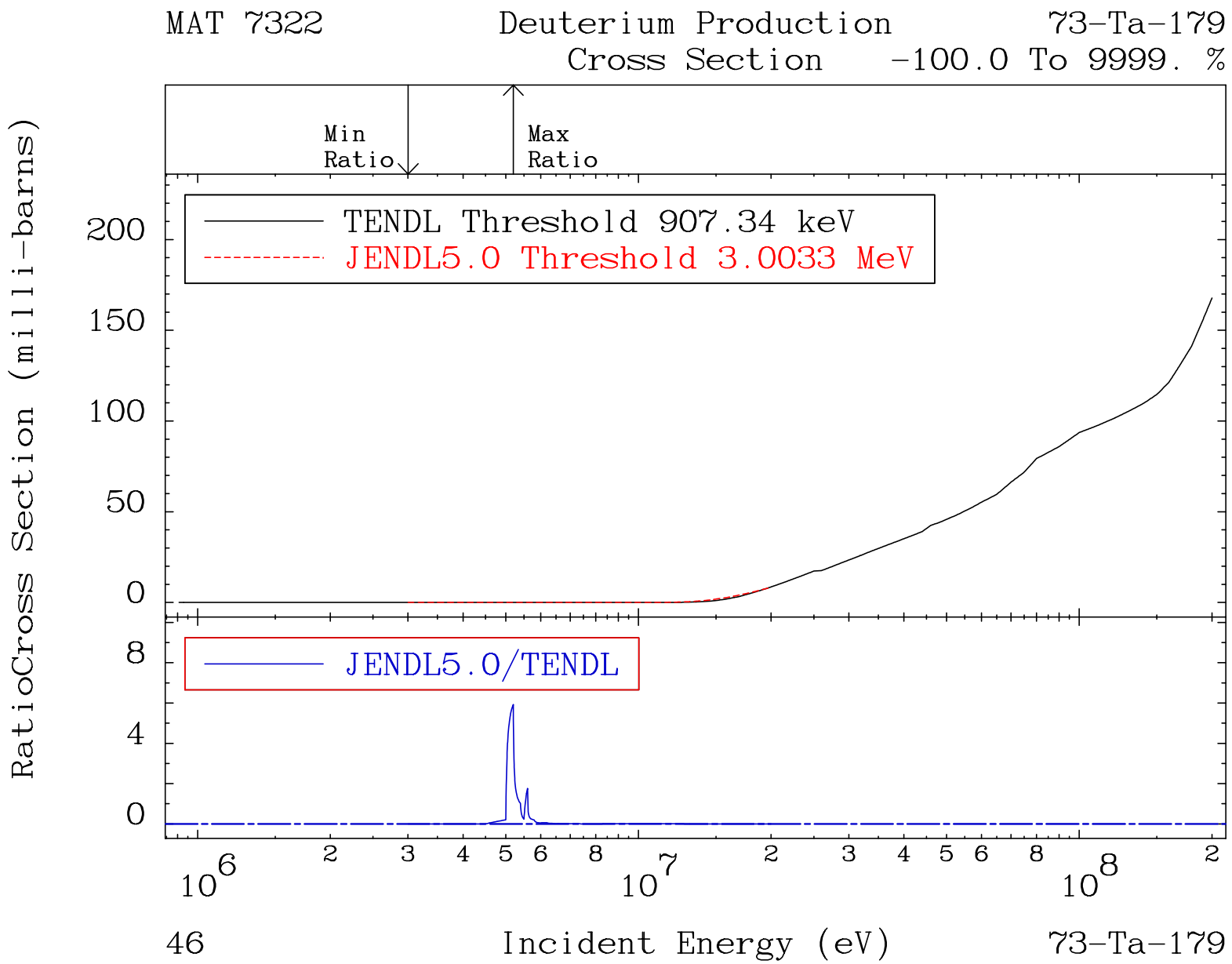

MAT 7322
(n,d)
73-Ta-179
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0033 MeV
JENDL5.0 Threshold 3.0033 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
73-Ta-179

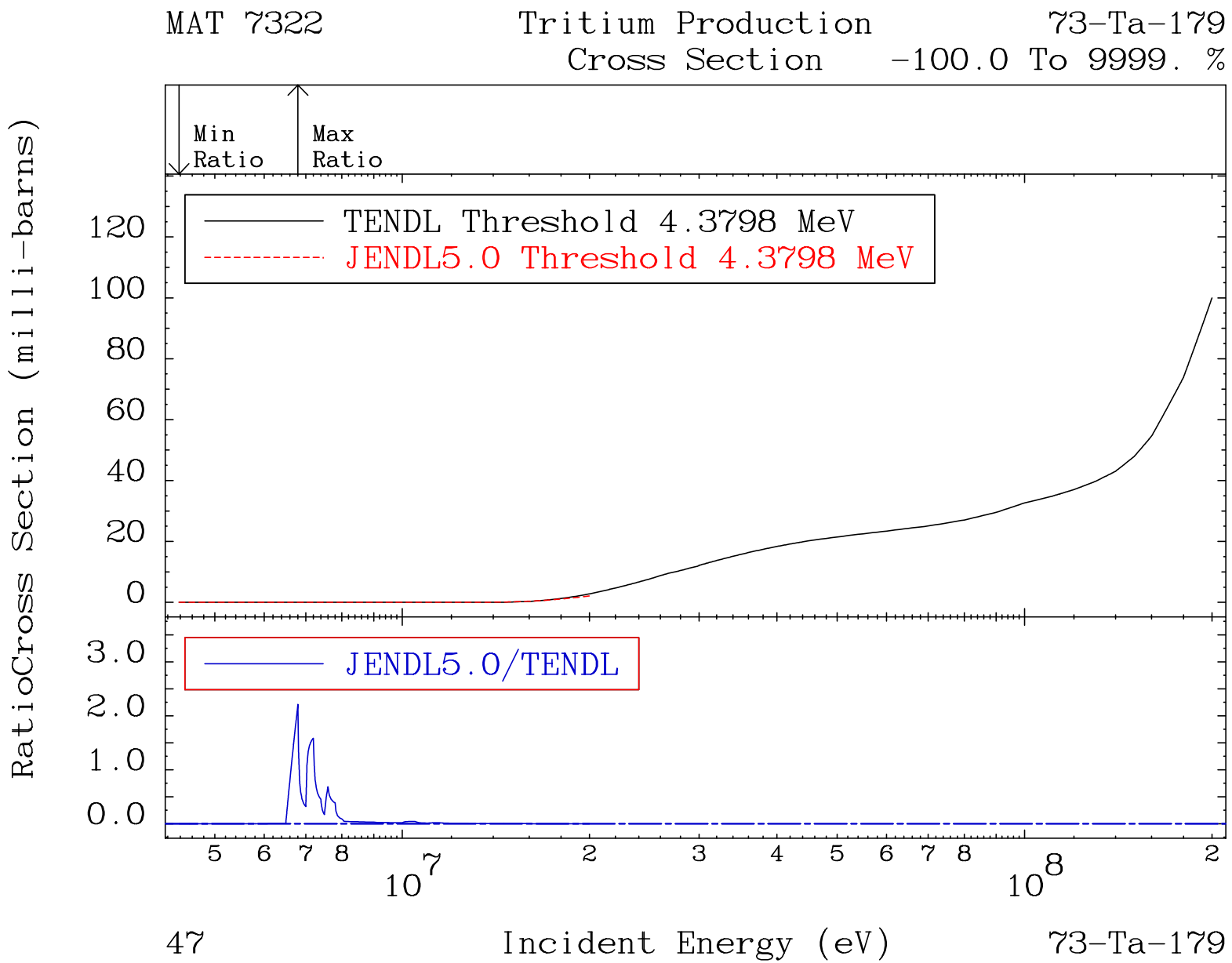

MAT 7322
(n,t)
Cross Section
73-Ta-179
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.3798 MeV
JENDL5.0 Threshold 4.3798 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
42
73-Ta-179

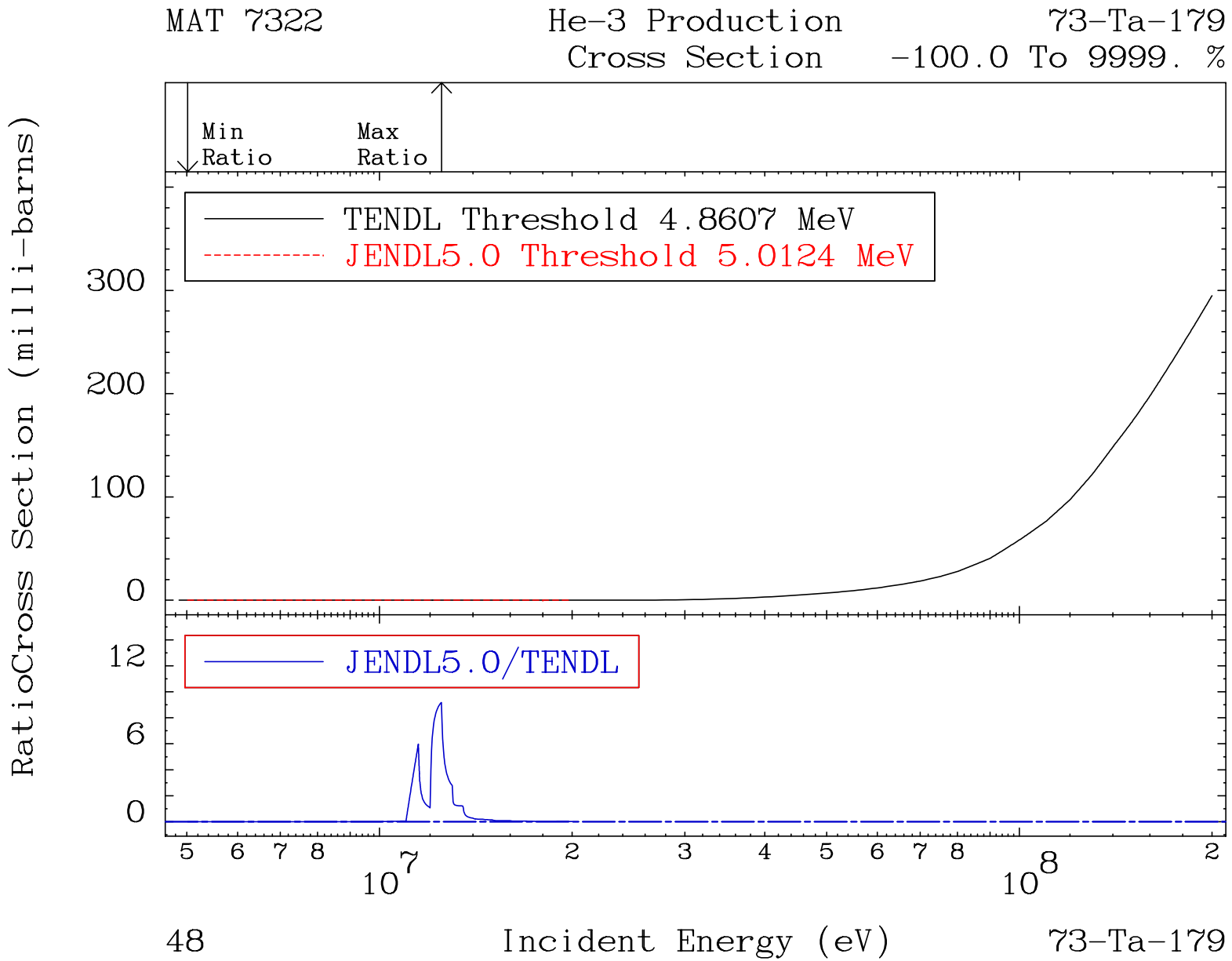

MAT 7322
(n,He-3)
Cross Section
73-Ta-179
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.8607 MeV
JENDL5.0 Threshold 5.0124 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
12
6
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
73-Ta-179

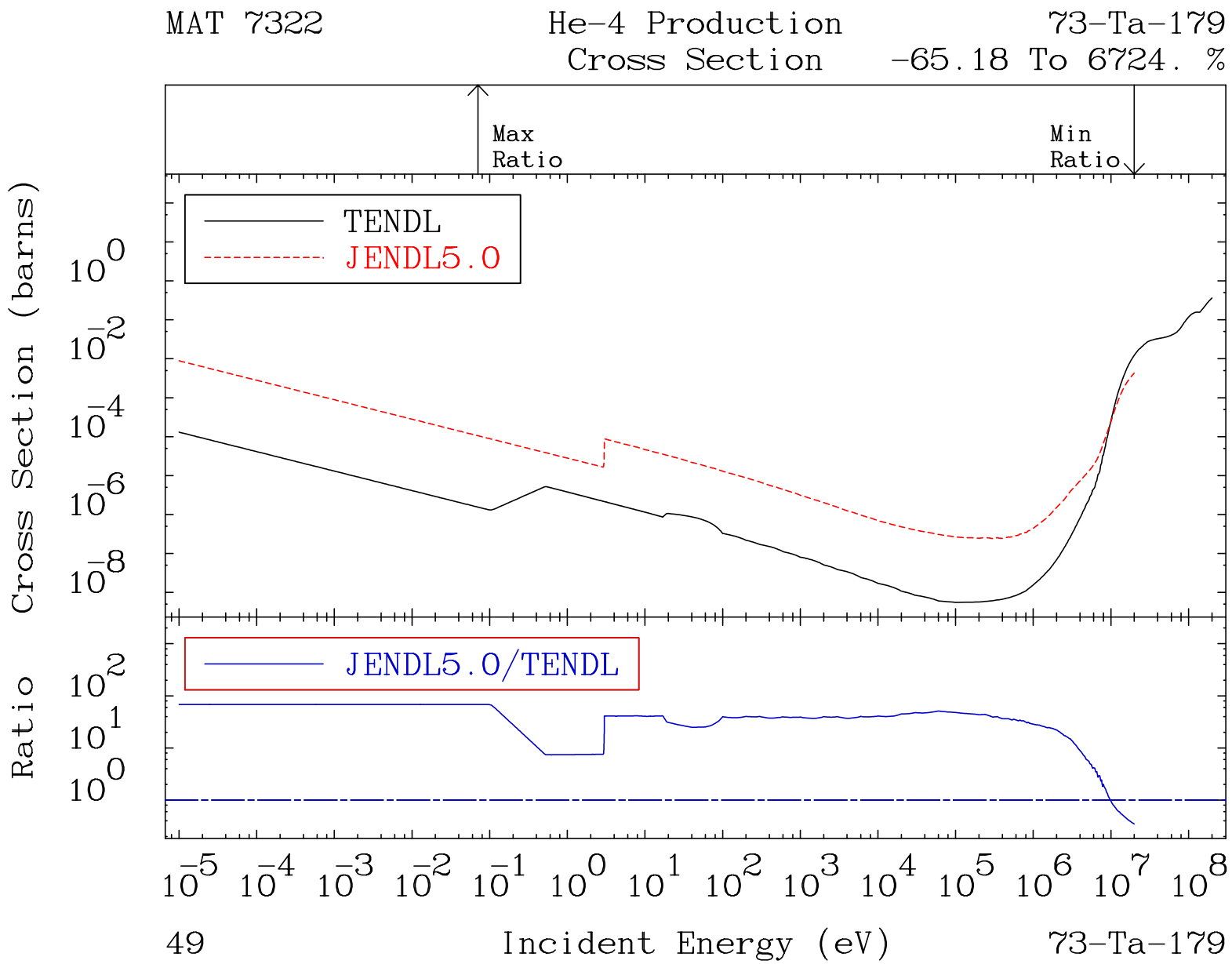

MAT 7322
(n,α)
Cross Section
73-Ta-179
-67.37 To 6724. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
73-Ta-179

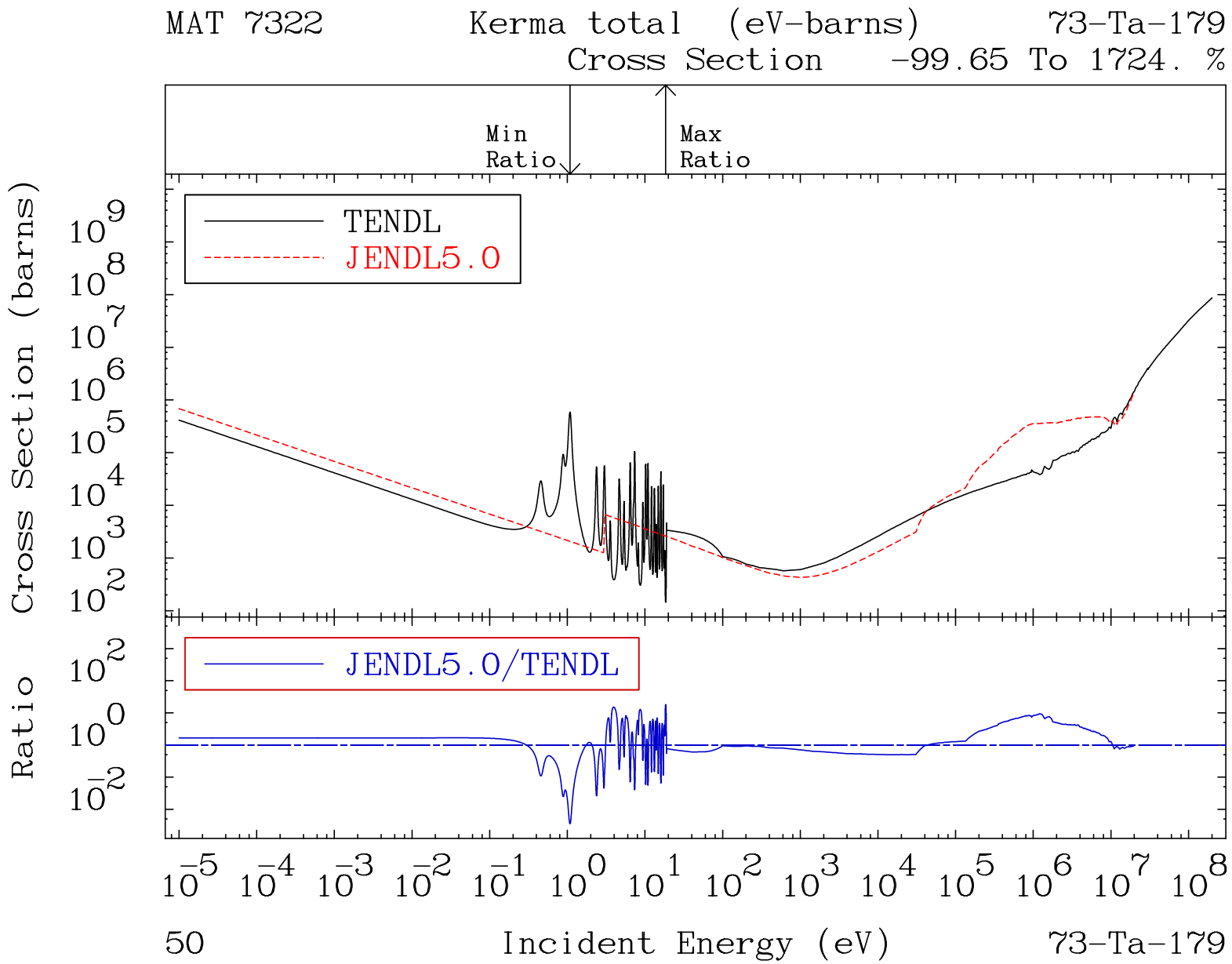

MAT 7322
Hydrogen Production
73-Ta-179
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 19.018 eV
JENDL5.0 Threshold 1.1821 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
10^2
10^3
10^4
10^5
10^6
10^7
10^8
45
Incident Energy (eV)
73-Ta-179

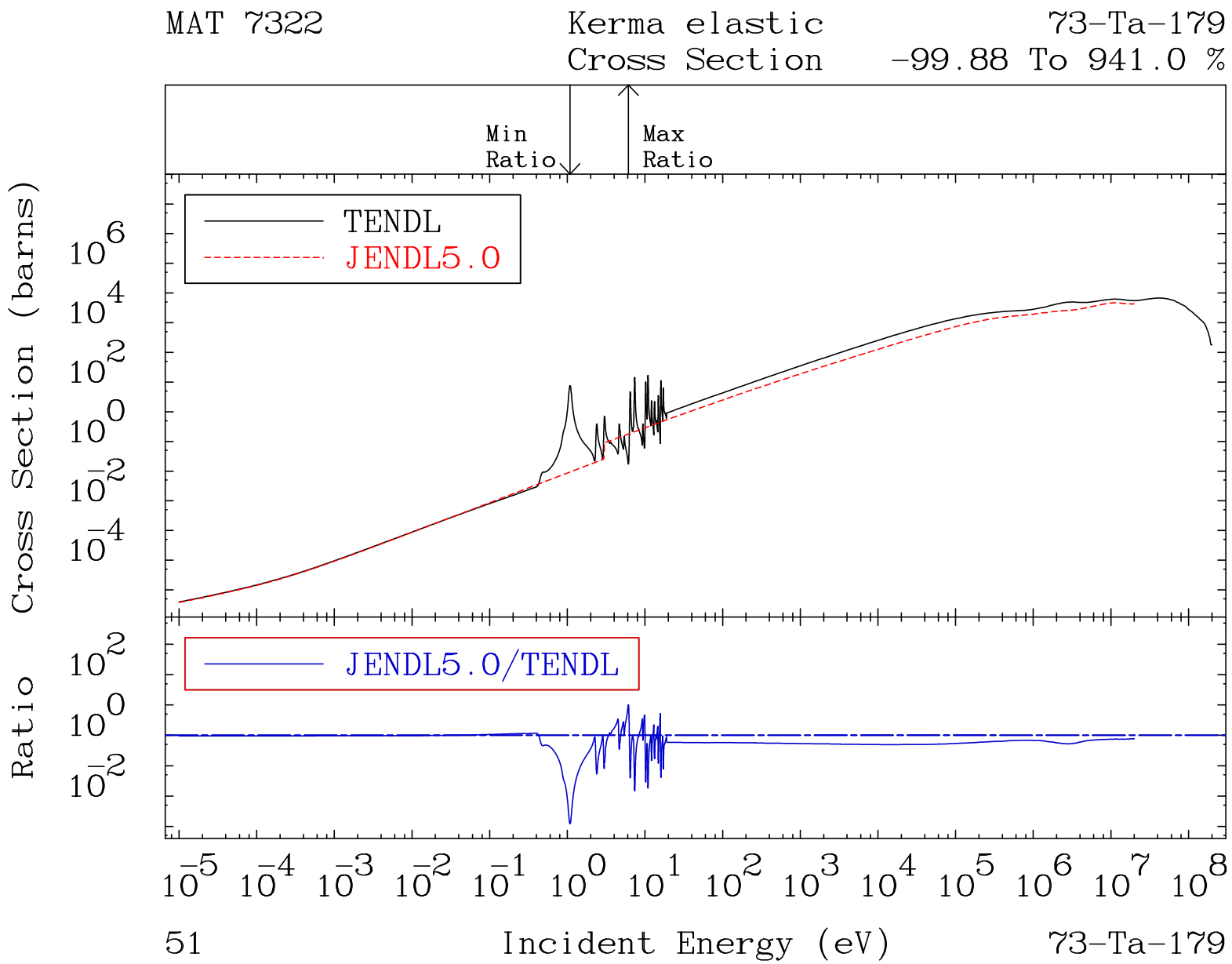

MAT 7322
Deuterium Production
73-Ta-179
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 907.34 keV
JENDL5.0 Threshold 3.0033 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
8
4
0
10^6
10^7
10^8
46
Incident Energy (eV)
73-Ta-179

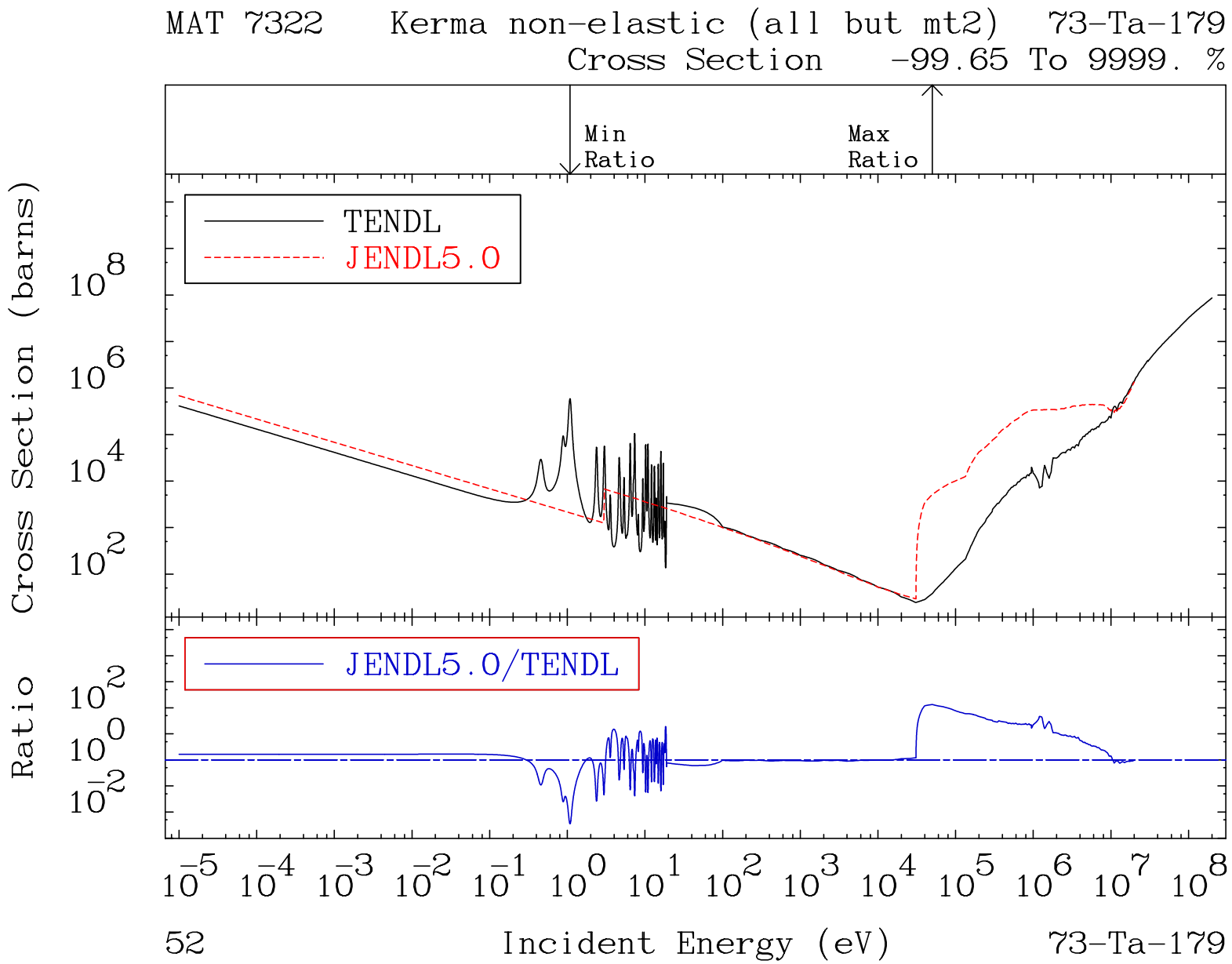

MAT 7322
Tritium Production
73-Ta-179
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.3798 MeV
JENDL5.0 Threshold 4.3798 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
73-Ta-179

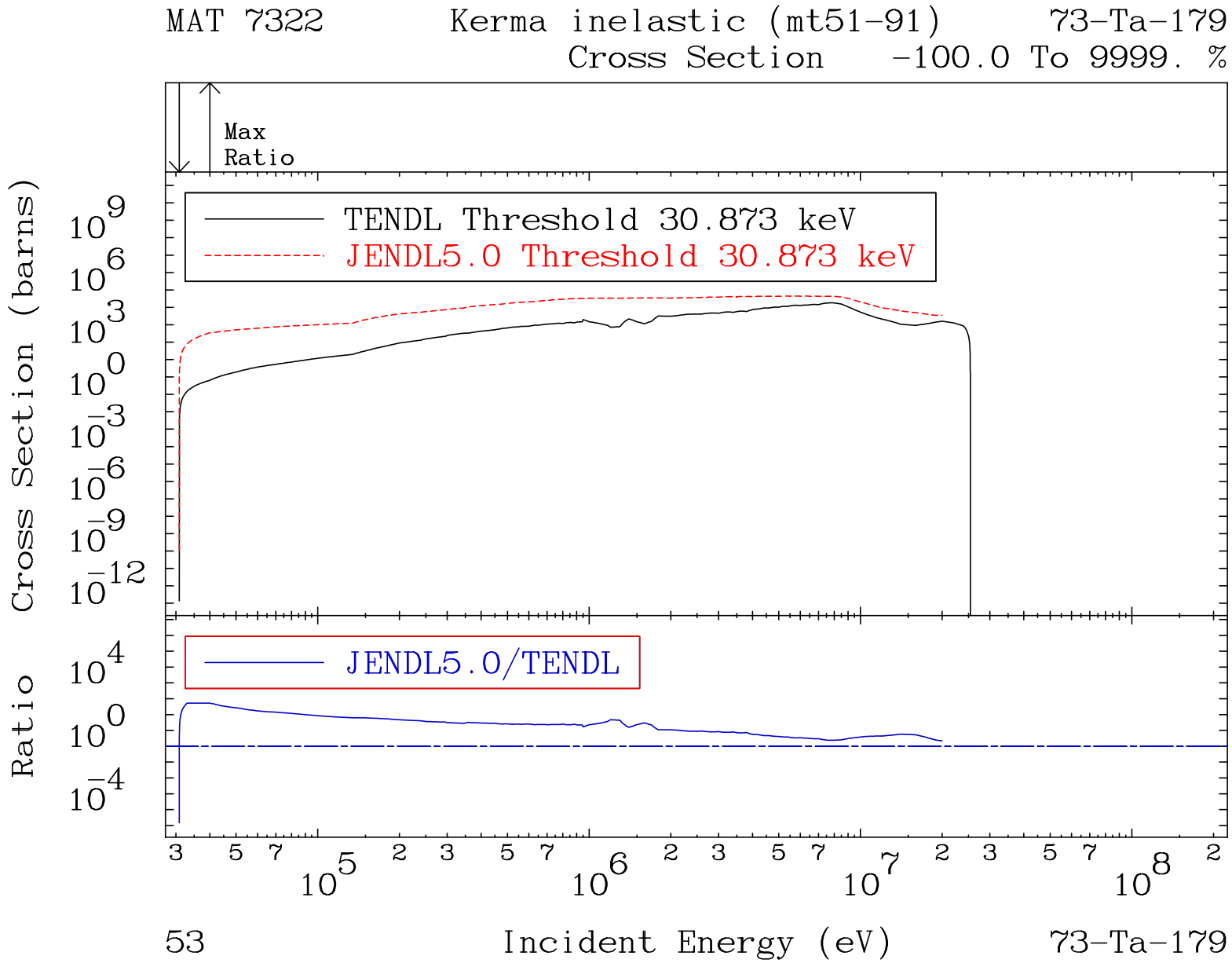

MAT 7322
He-3 Production
Cross Section
73-Ta-179
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.8607 MeV
JENDL5.0 Threshold 5.0124 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
12
6
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
48
Incident Energy (eV)
73-Ta-179

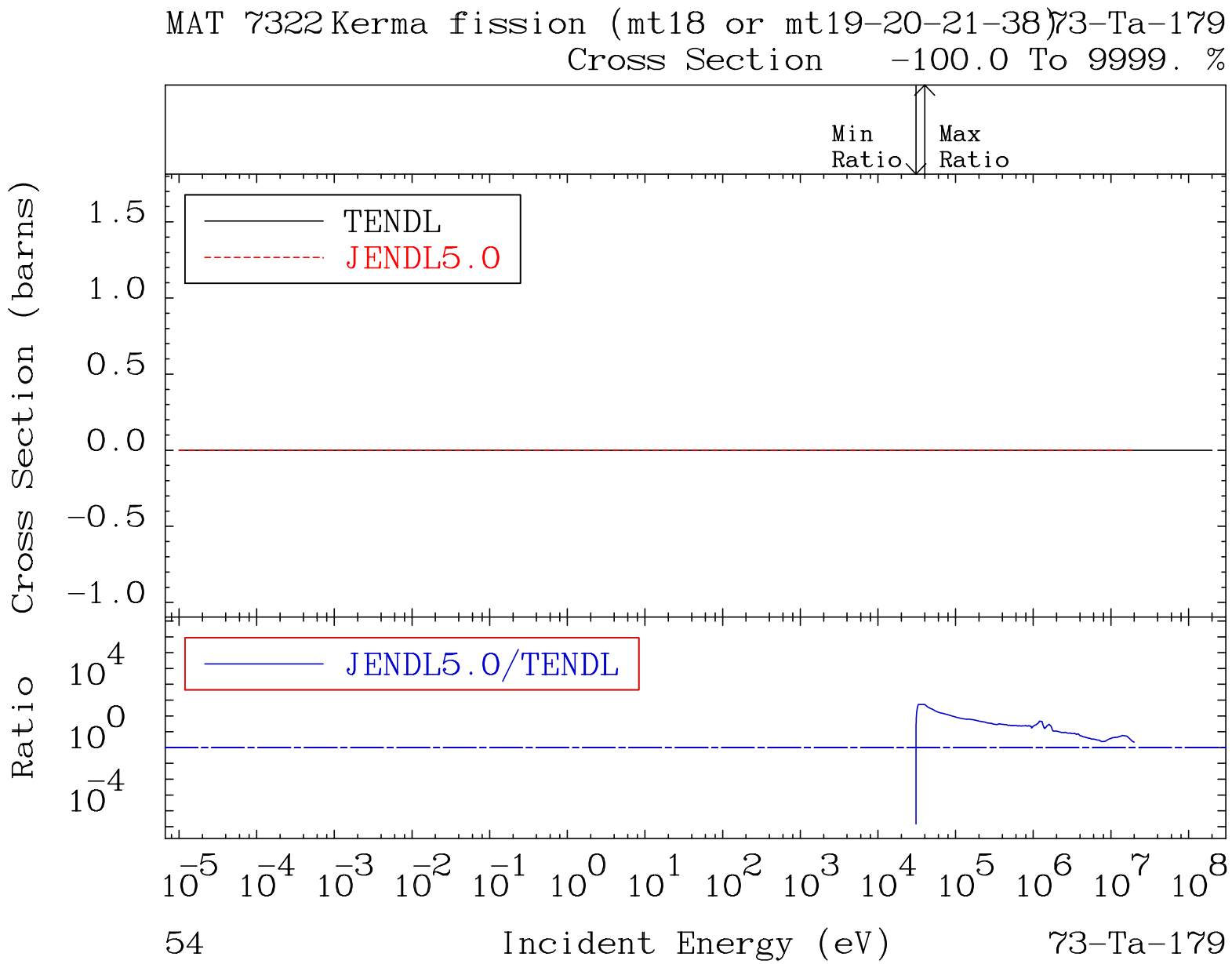

MAT 7322
He-4 Production
Cross Section
73-Ta-179
-65.18 To 6724. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
49
73-Ta-179

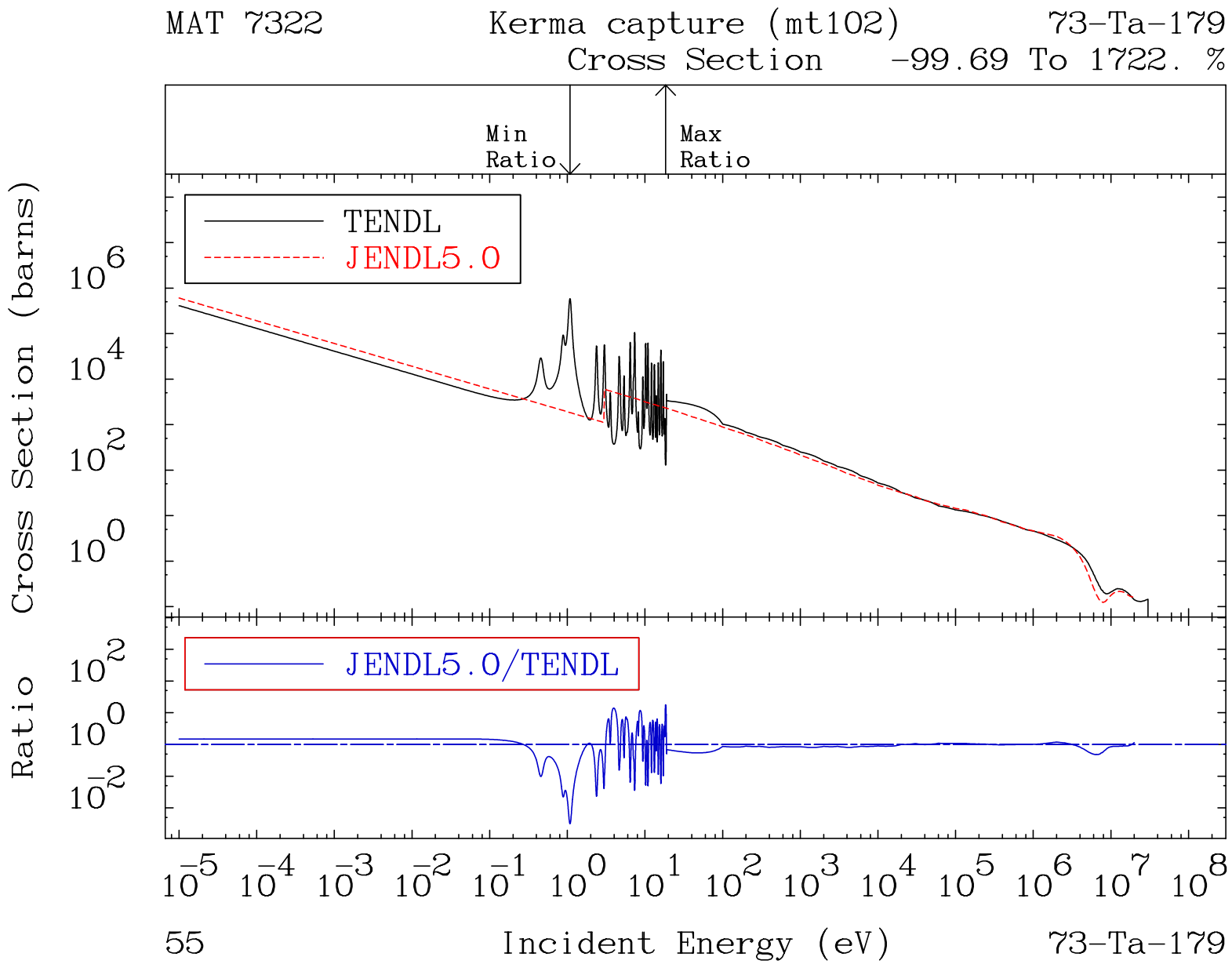

MAT 7322
Kerma total (eV-barns)
73-Ta-179
Cross Section -99.65 To 1724. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
73-Ta-179

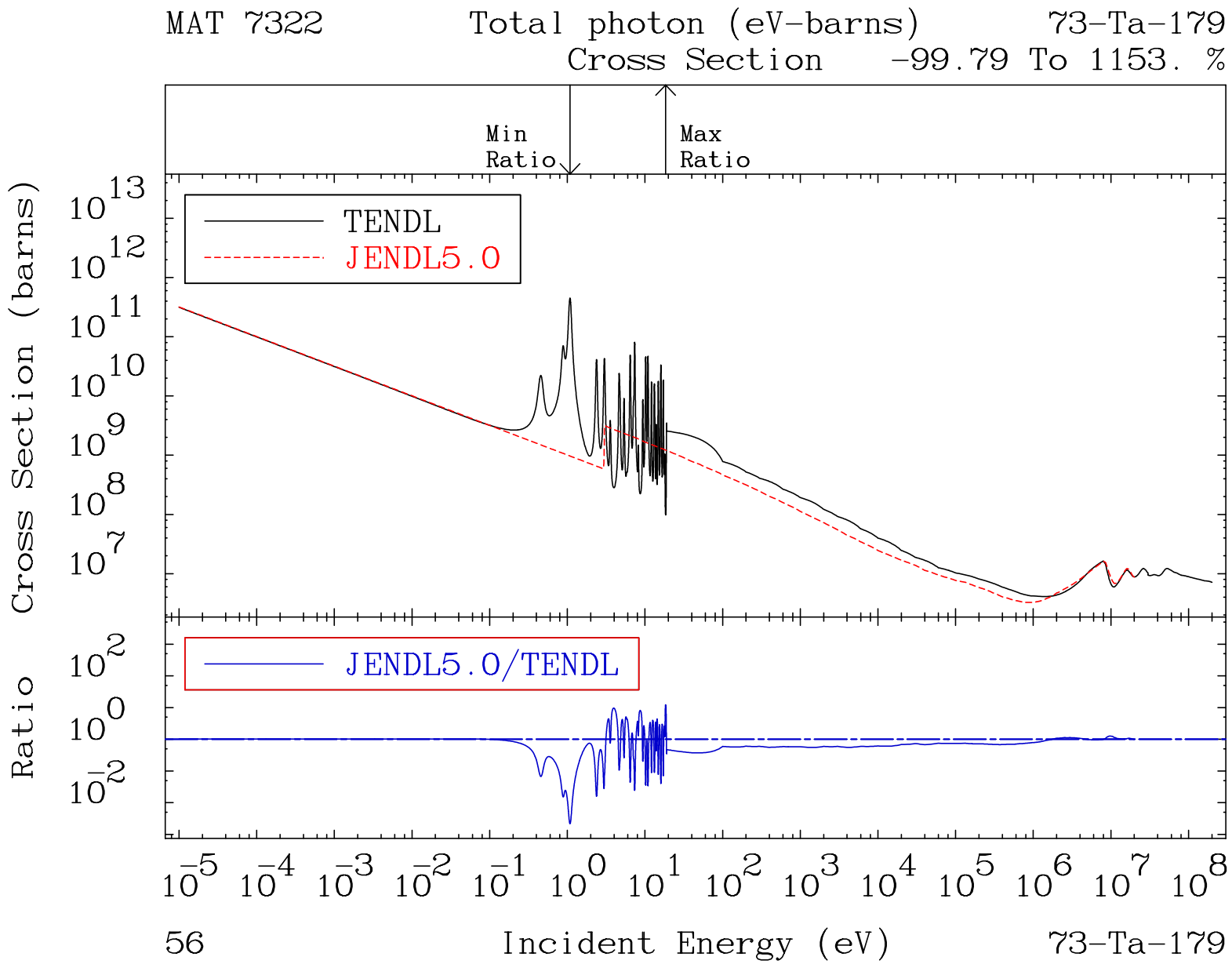

MAT 7322
Kerma elastic
Cross Section
73-Ta-179
-99.88 To 941.0 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
73-Ta-179

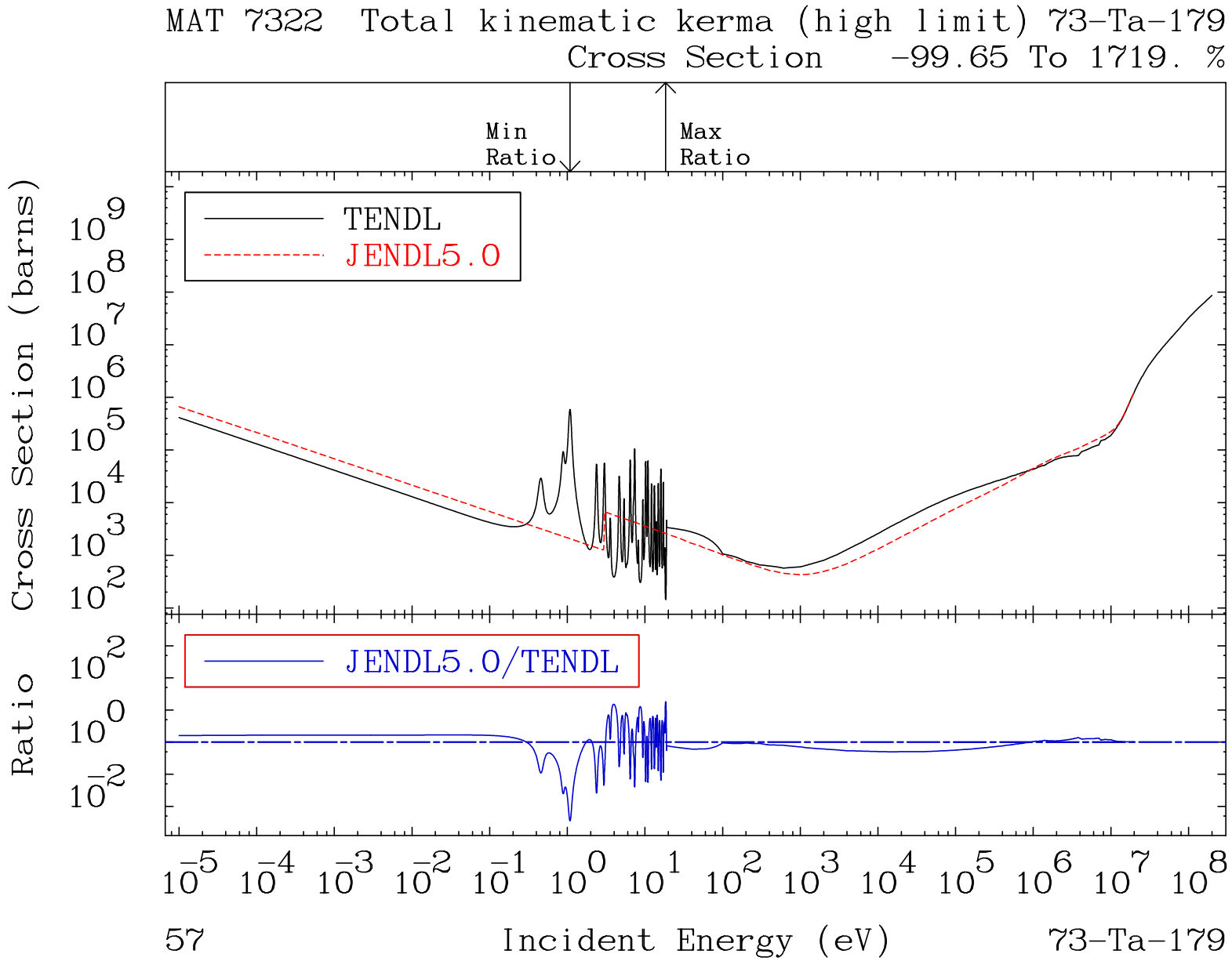

MAT 7322 Kerma non-elastic (all but mt2) 73-Ta-179
Cross Section -99.65 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
73-Ta-179

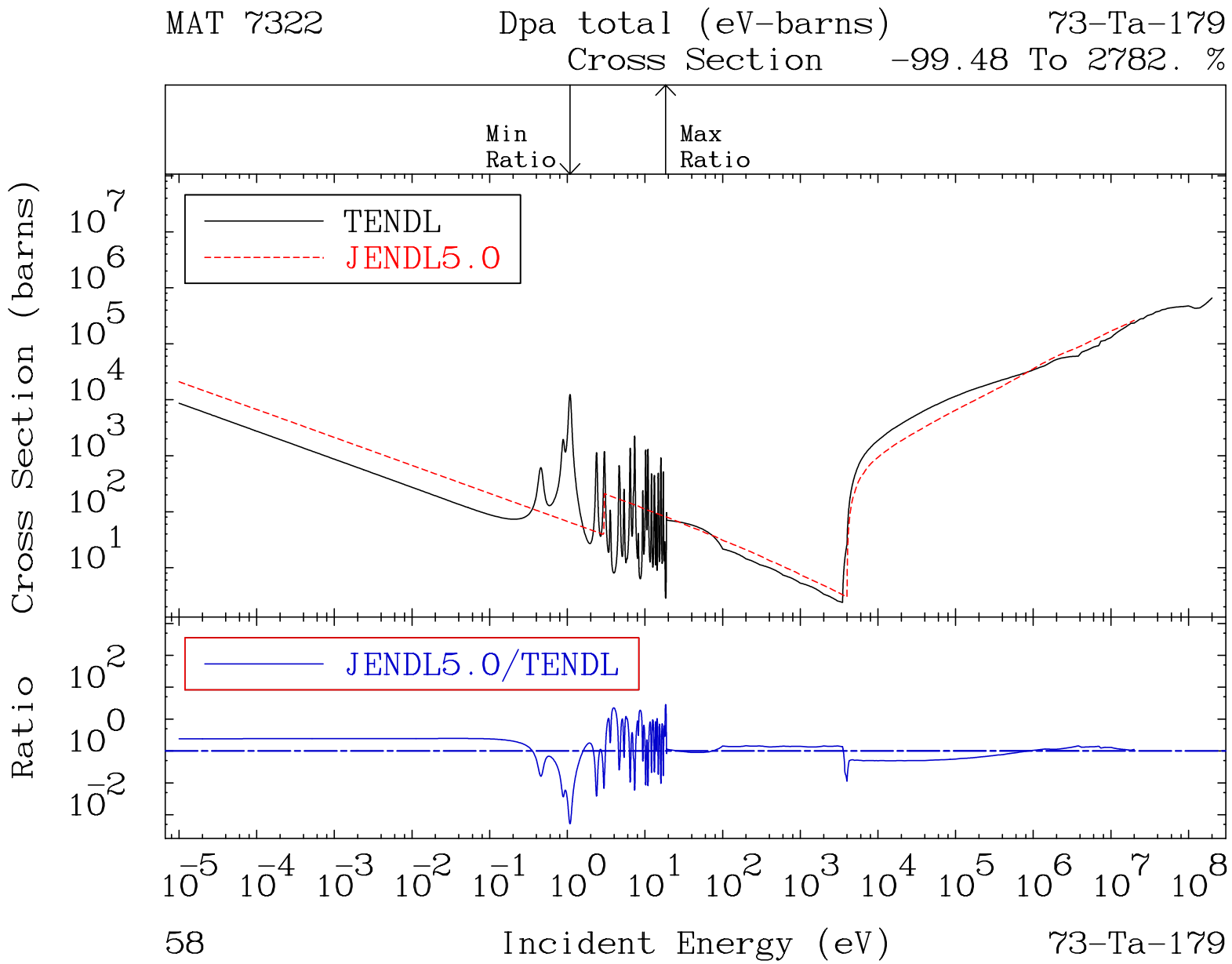

MAT 7322
Kerma inelastic (mt51-91)
73-Ta-179
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 30.873 keV
JENDL5.0 Threshold 30.873 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
73-Ta-179

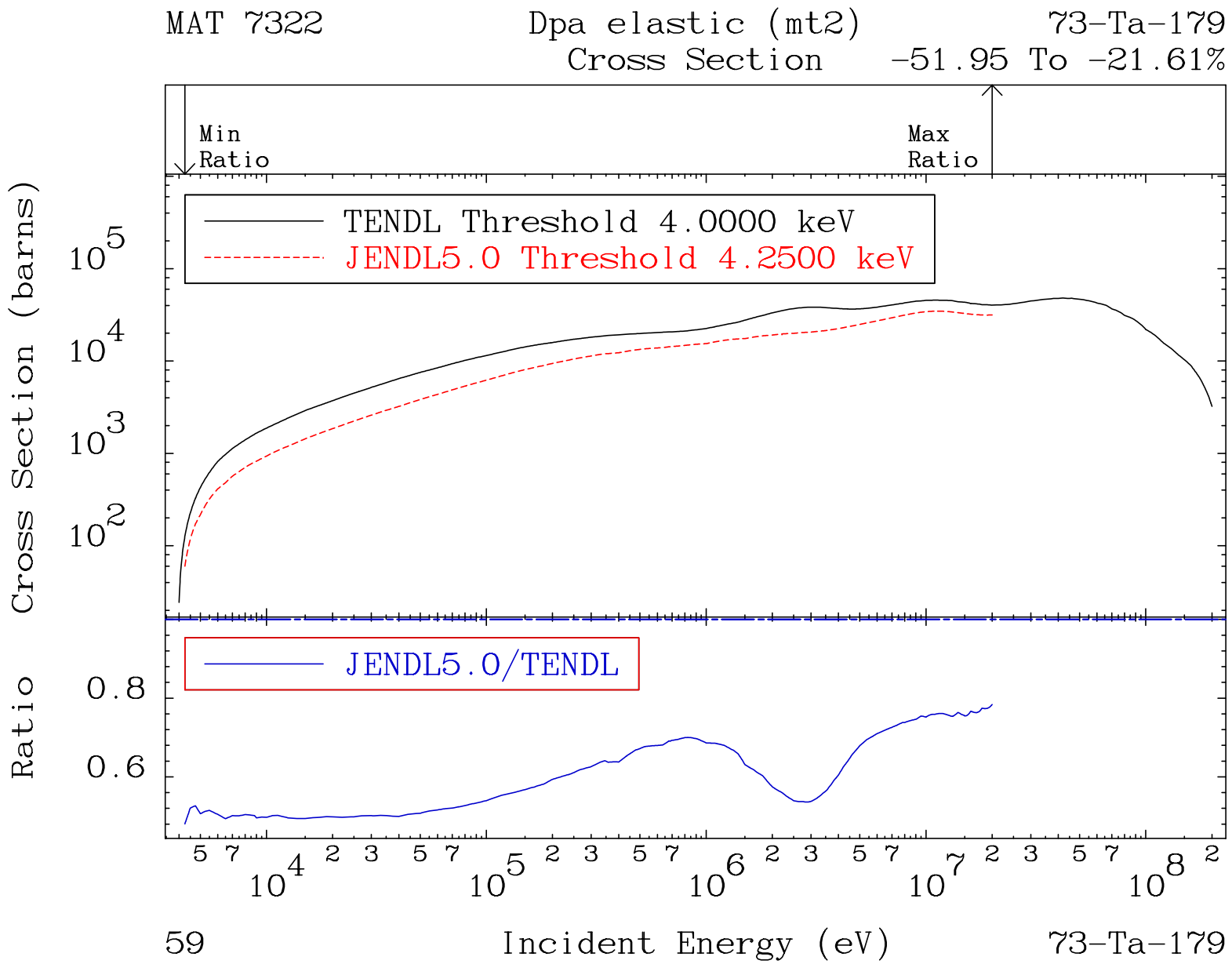

MAT 7322 Kerma fission (mt18 or mt19-20-21-38) 73-Ta-179
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{4}
10^{0}
10^{-4}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
54
Incident Energy (eV)
73-Ta-179

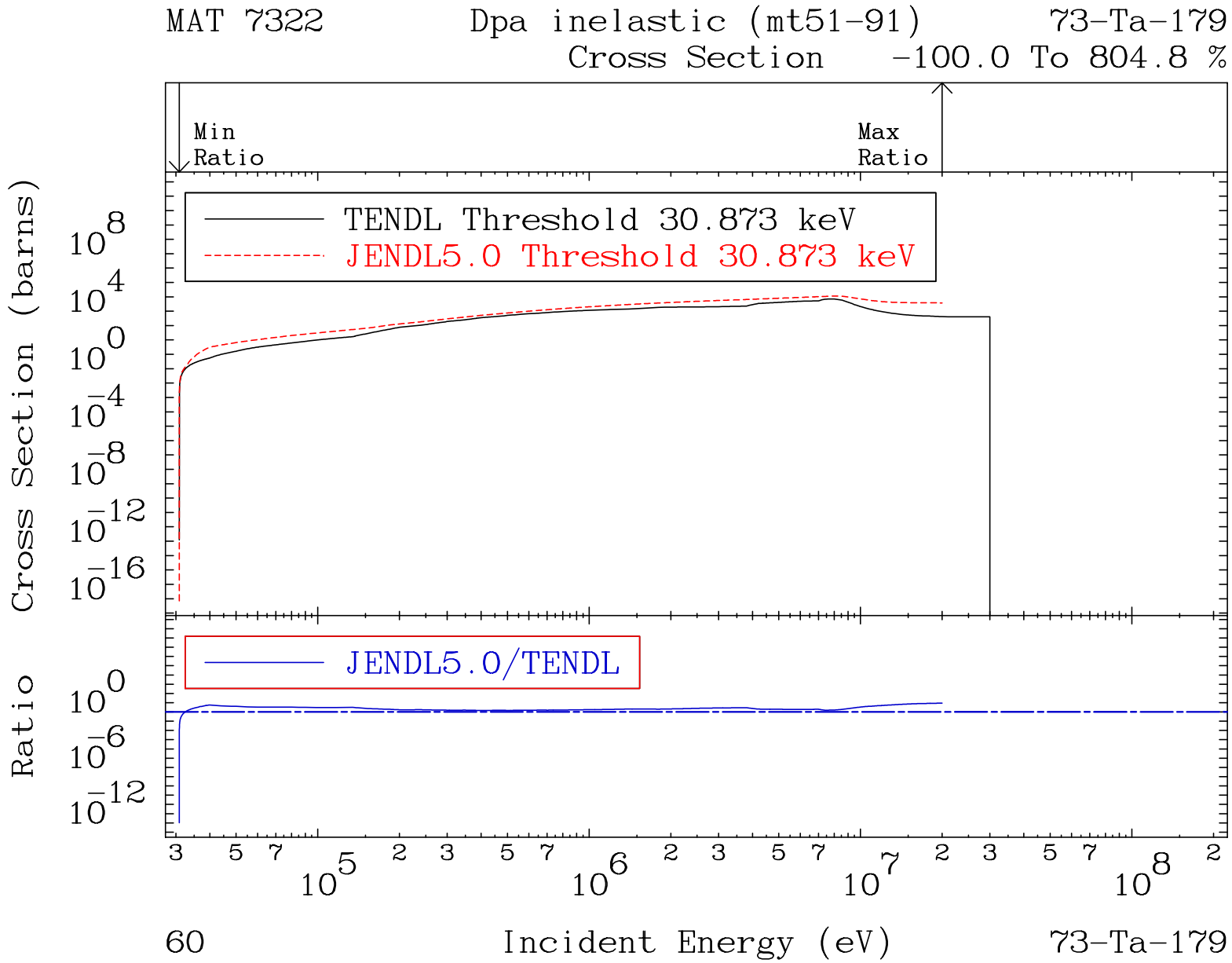

MAT 7322
Kerma capture (mt102)
73-Ta-179
Cross Section -99.69 To 1722. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
55
73-Ta-179

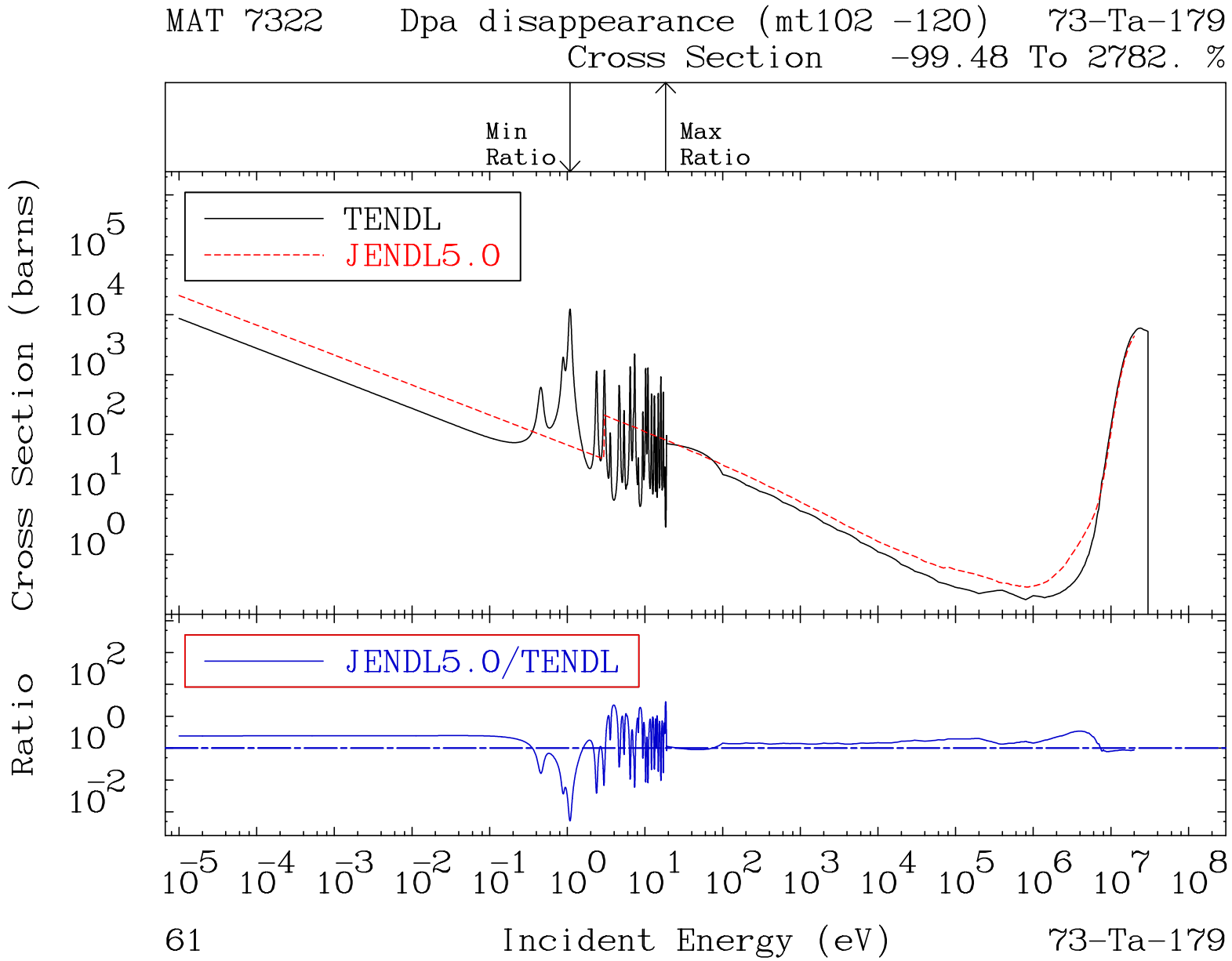

MAT 7322
Total photon (eV-barns)
73-Ta-179
Cross Section -99.79 To 1153. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
73-Ta-179

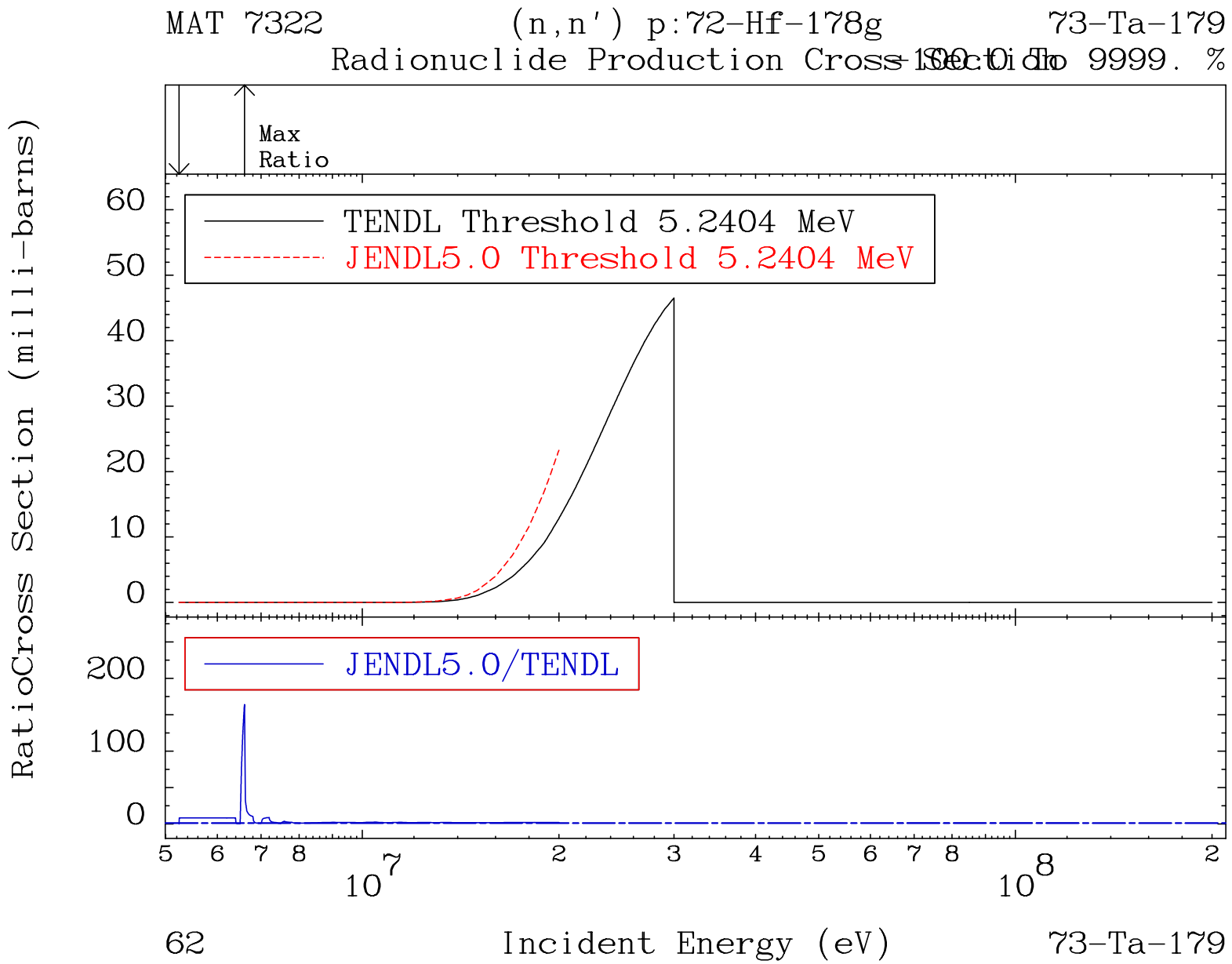

MAT 7322 Total kinematic kerma (high limit) 73-Ta-179
Cross Section -99.65 To 1719. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
73-Ta-179

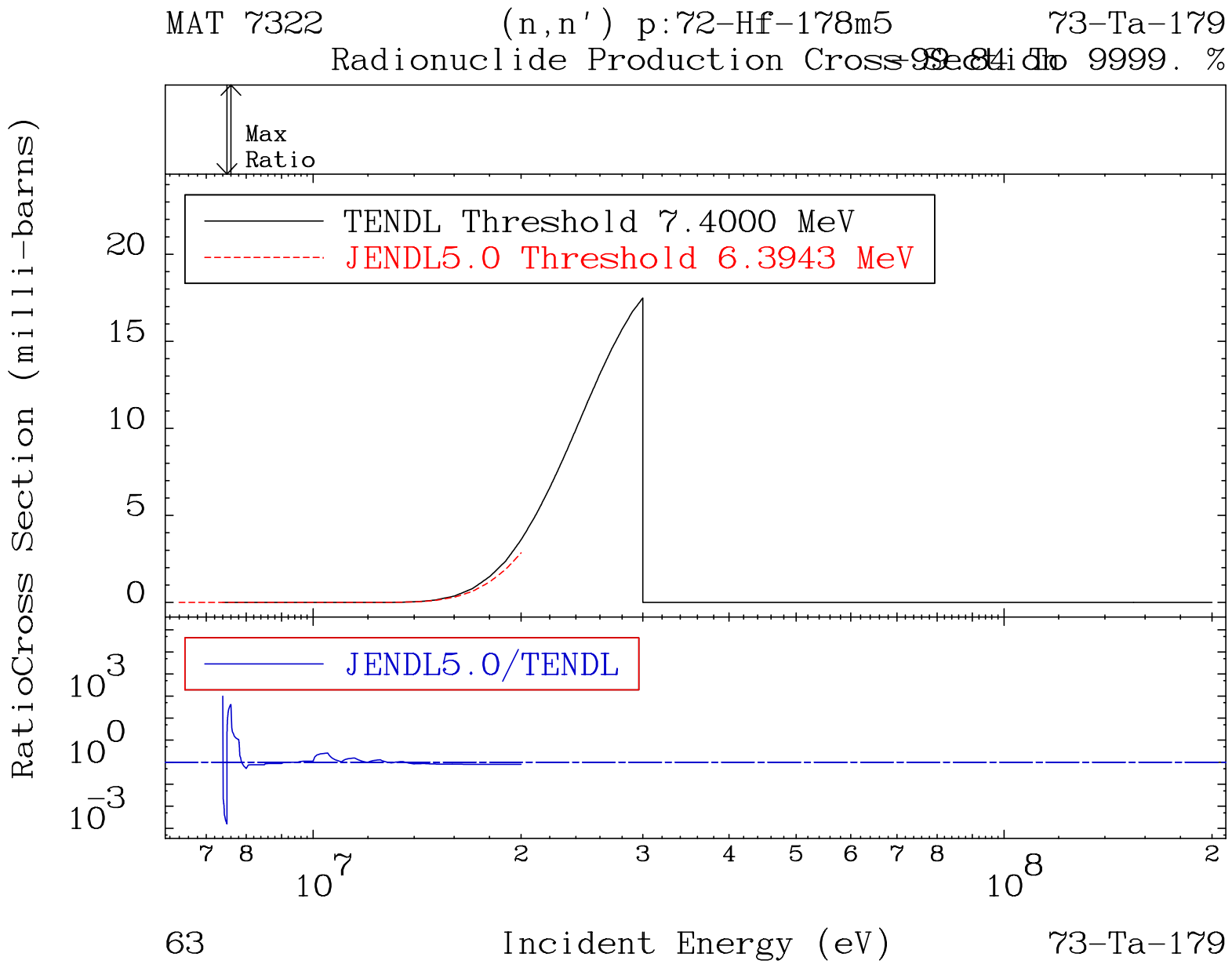

MAT 7322
Dpa total (eV-barns)
73-Ta-179
Cross Section -99.48 To 2782. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
58
Incident Energy (eV)
73-Ta-179

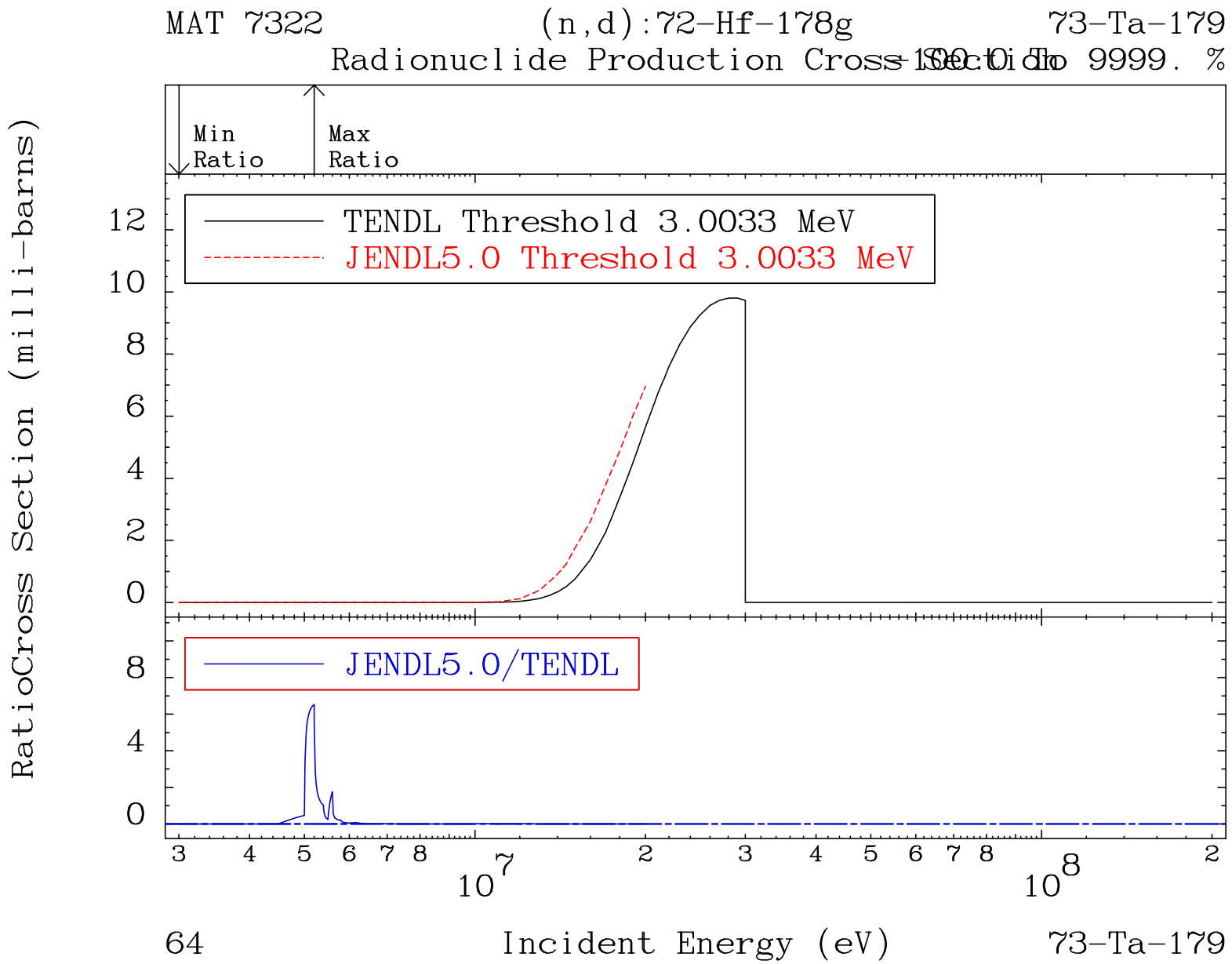

MAT 7322
Dpa elastic (mt2)
Cross Section
73-Ta-179
-51.95 To -21.61%
Min
Ratio
Max
Ratio
TENDL Threshold 4.0000 keV
JENDL5.0 Threshold 4.2500 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
73-Ta-179

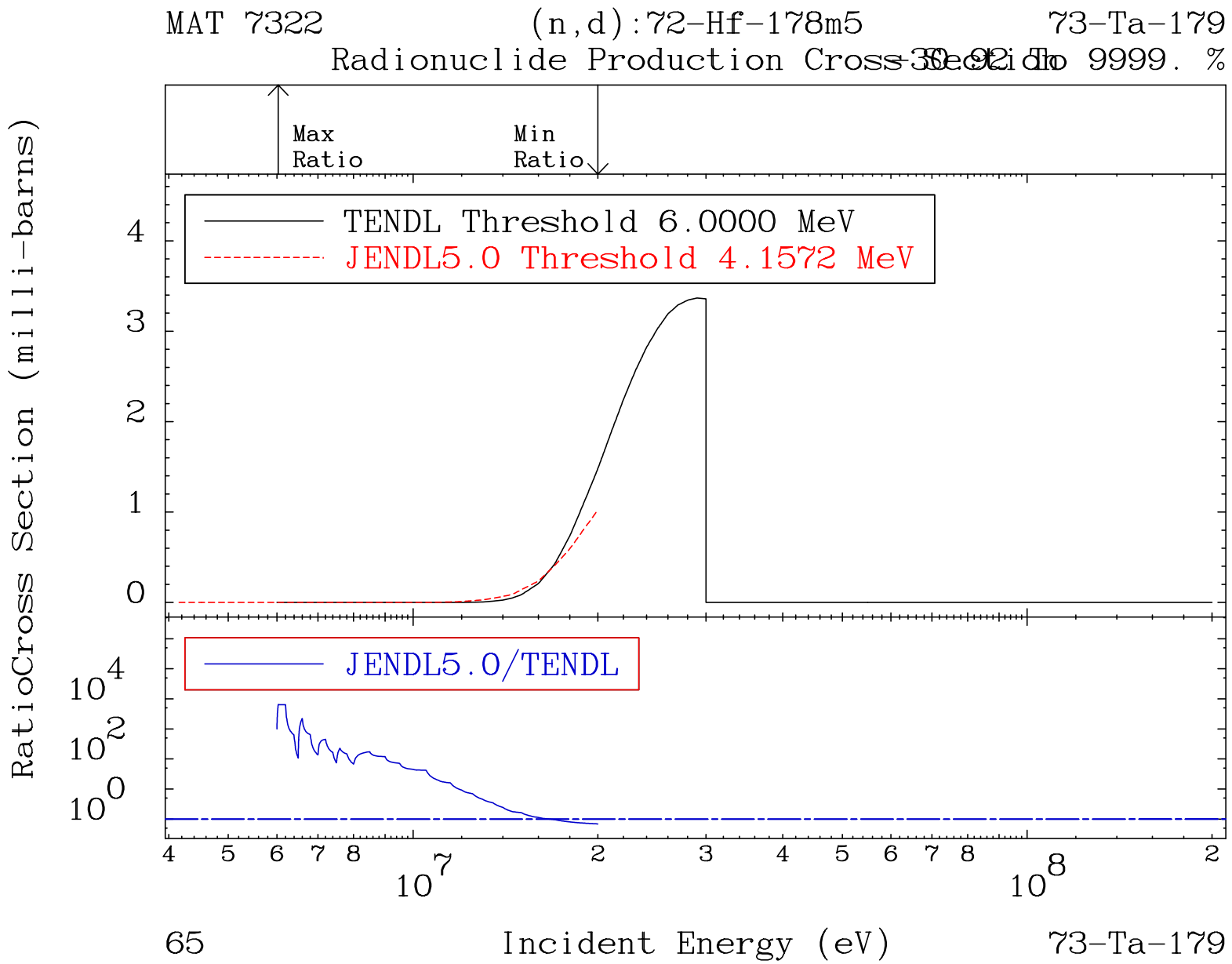

MAT 7322
Dpa inelastic (mt51-91)
73-Ta-179
Cross Section -100.0 To 804.8 %
Min Ratio
Max Ratio
TENDL Threshold 30.873 keV
JENDL5.0 Threshold 30.873 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
73-Ta-179

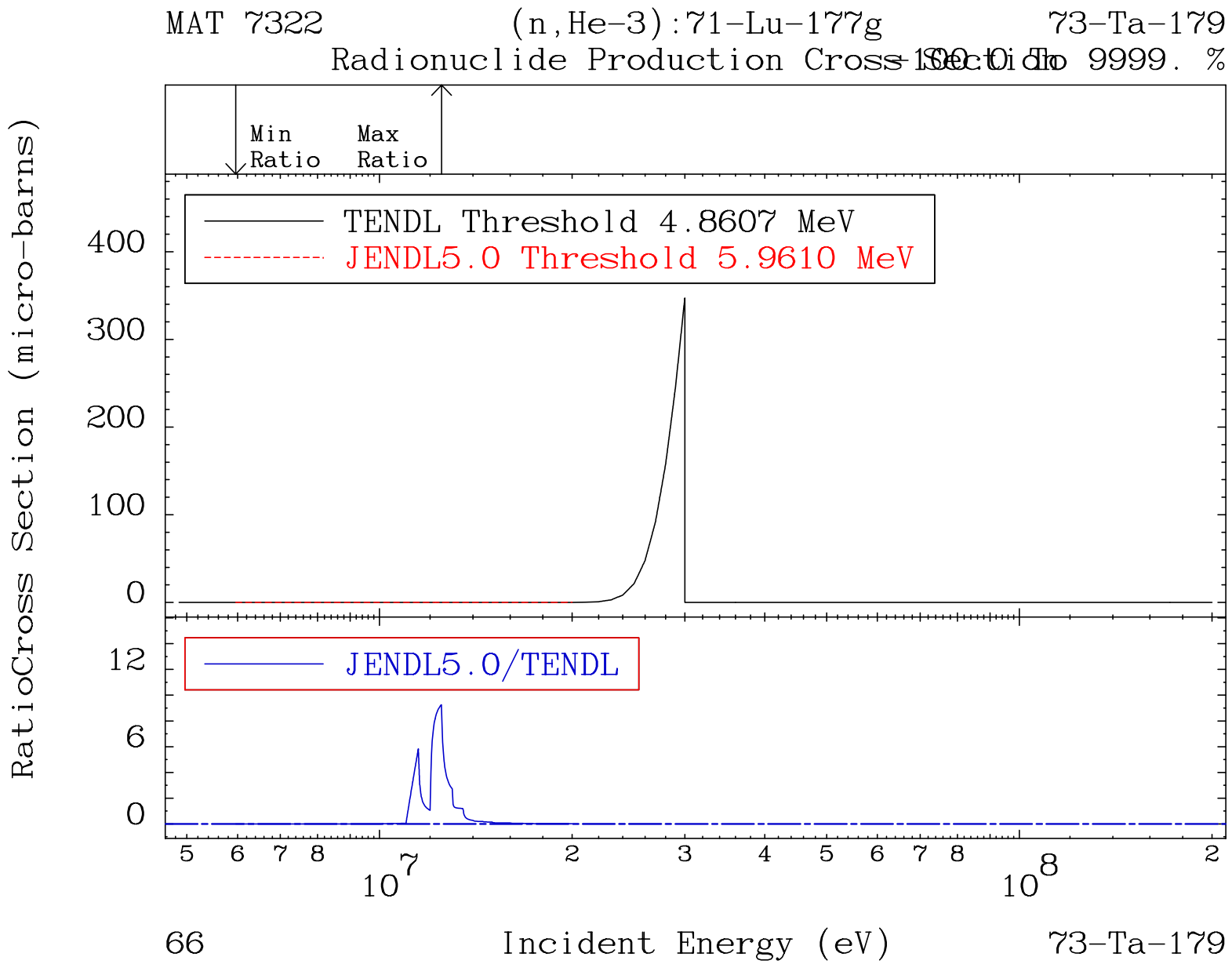

MAT 7322 Dpa disappearance (mt102 -120) 73-Ta-179
Cross Section -99.48 To 2782. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
73-Ta-179

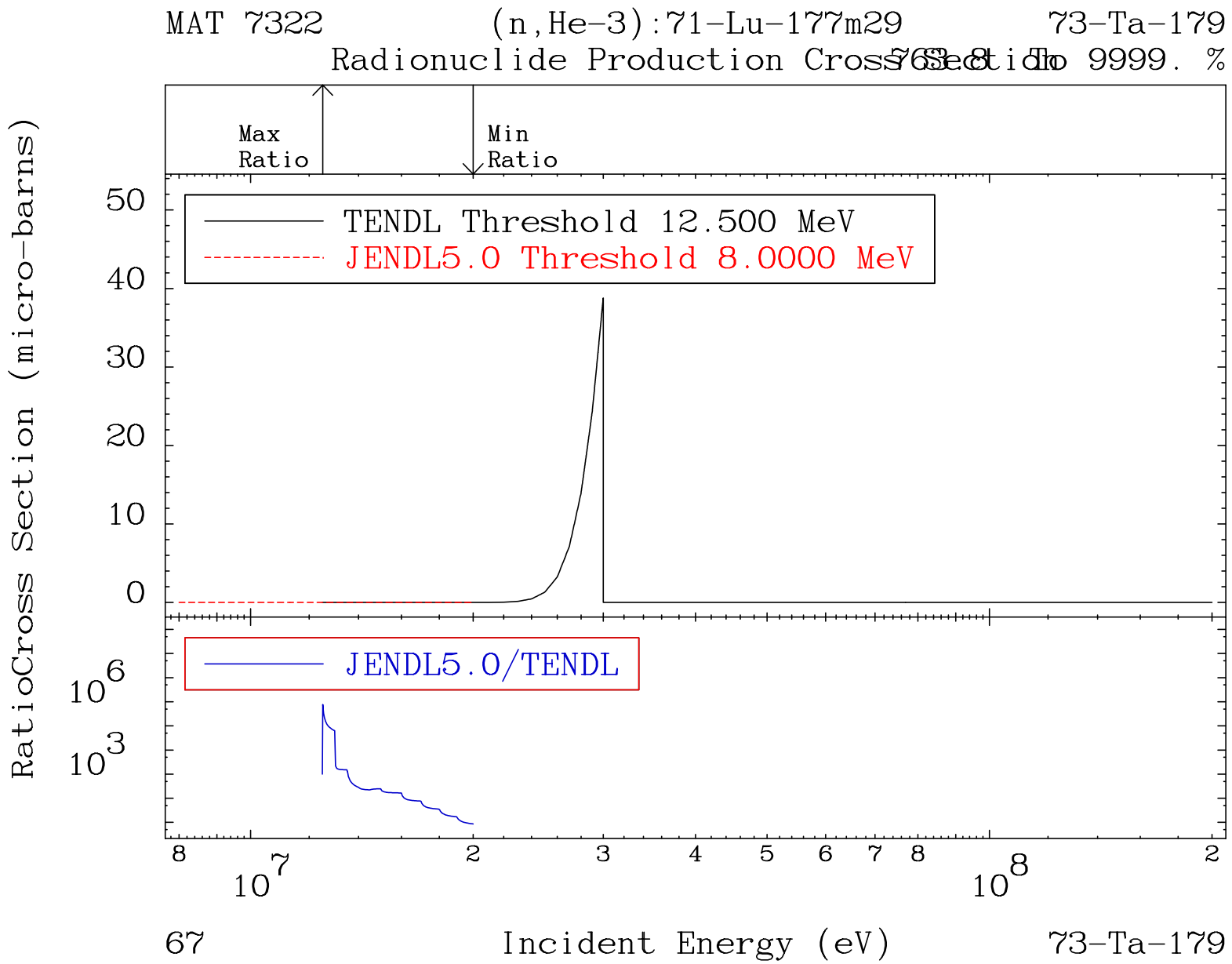

MAT 7322
(n,n') p:72-Hf-178g
73-Ta-179
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 5.2404 MeV
JENDL5.0 Threshold 5.2404 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
62
73-Ta-179


MAT 7322
(n,n') p:72-Hf-178m5
73-Ta-179
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 7.4000 MeV
JENDL5.0 Threshold 6.3943 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^3
10^0
10^-3
7 8 10^7 2 3 4 5 6 7 8 10^8 2
63
Incident Energy (eV)
73-Ta-179


MAT 7322
(n,d):72-Hf-178g
73-Ta-179
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.0033 MeV
JENDL5.0 Threshold 3.0033 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
64
73-Ta-179


MAT 7322
(n,d):72-Hf-178m5
73-Ta-179
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.0000 MeV
JENDL5.0 Threshold 4.1572 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
73-Ta-179


MAT 7322
(n,He-3):71-Lu-177g
73-Ta-179
Radionuclide Production Cross Section
100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 4.8607 MeV
JENDL5.0 Threshold 5.9610 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
12
6
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
66
Incident Energy (eV)
73-Ta-179


MAT 7322
(n,He-3):71-Lu-177m29
73-Ta-179
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JENDL5.0 Threshold 8.0000 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
50
40
30
20
10
0
10^6
10^3
8
10^7
2
3
4
5
6
7
8
10^8
2
67
Incident Energy (eV)
73-Ta-179