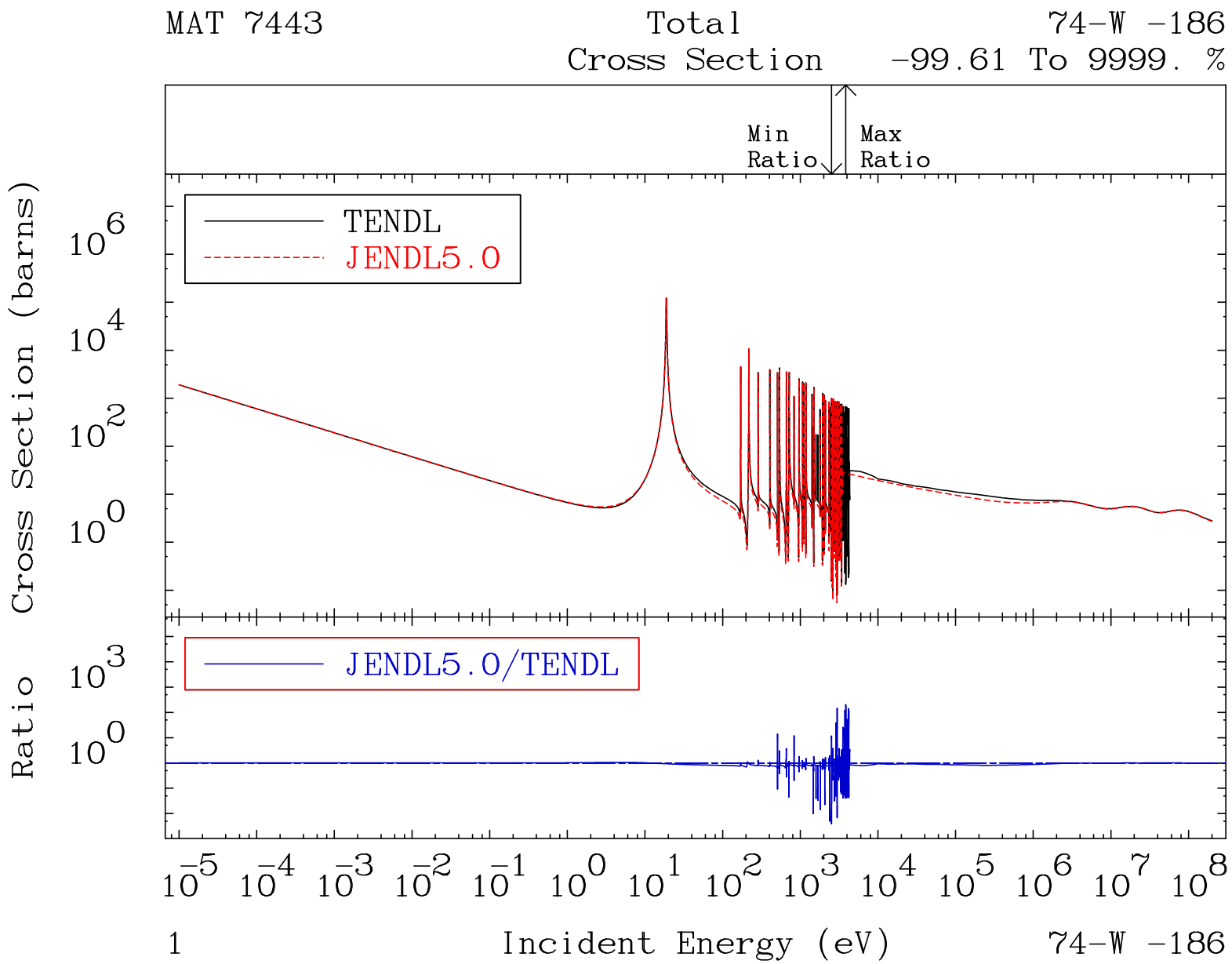
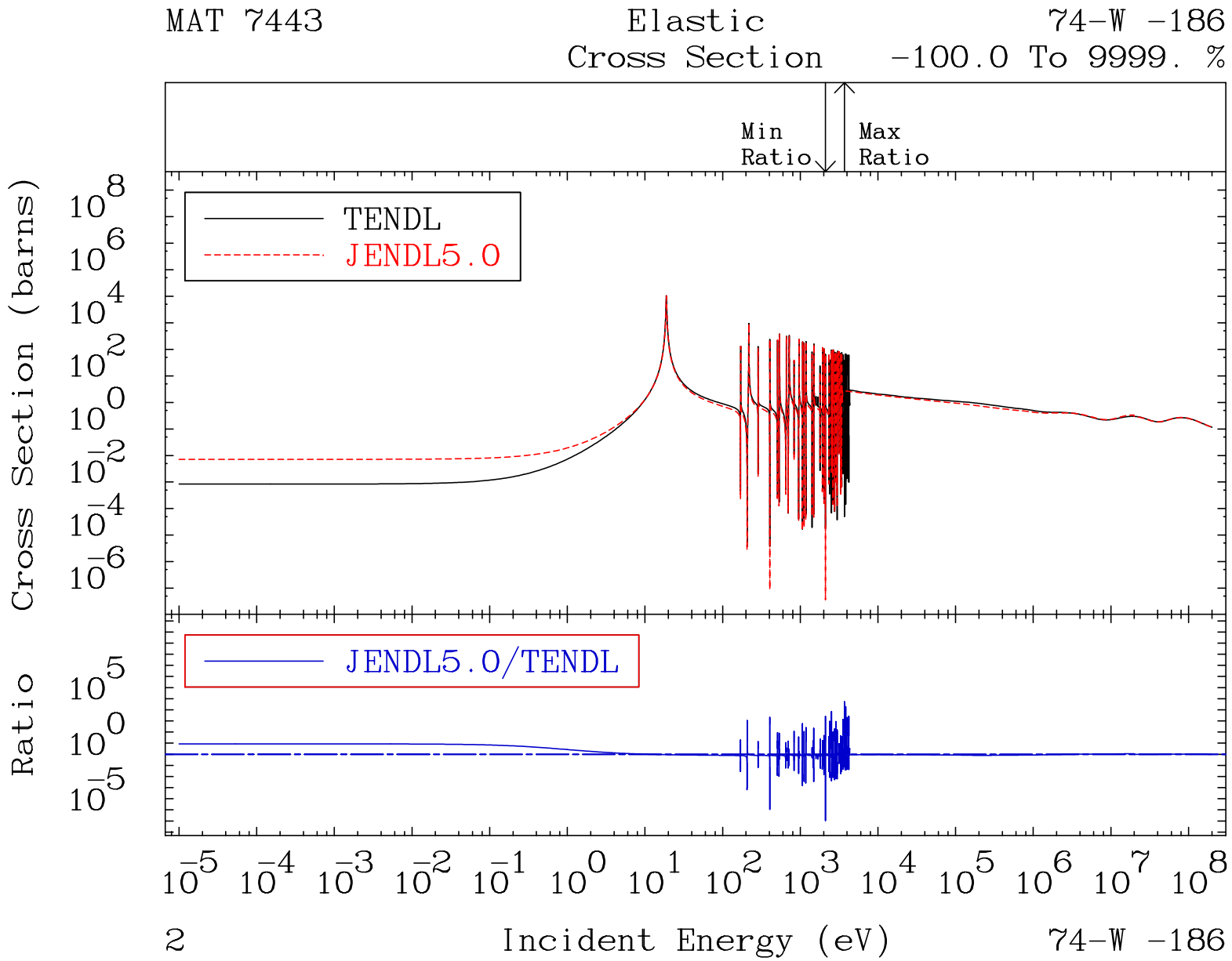
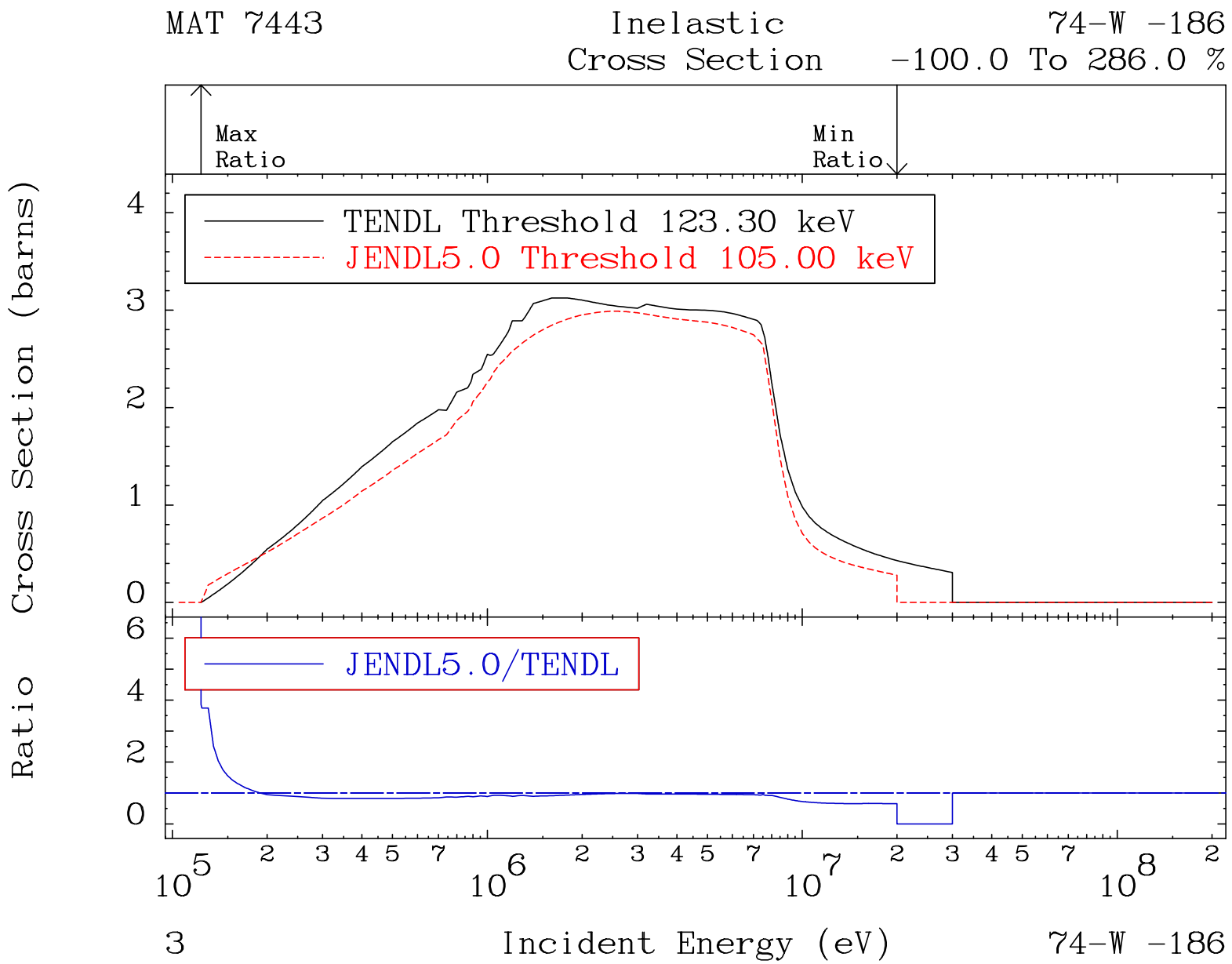
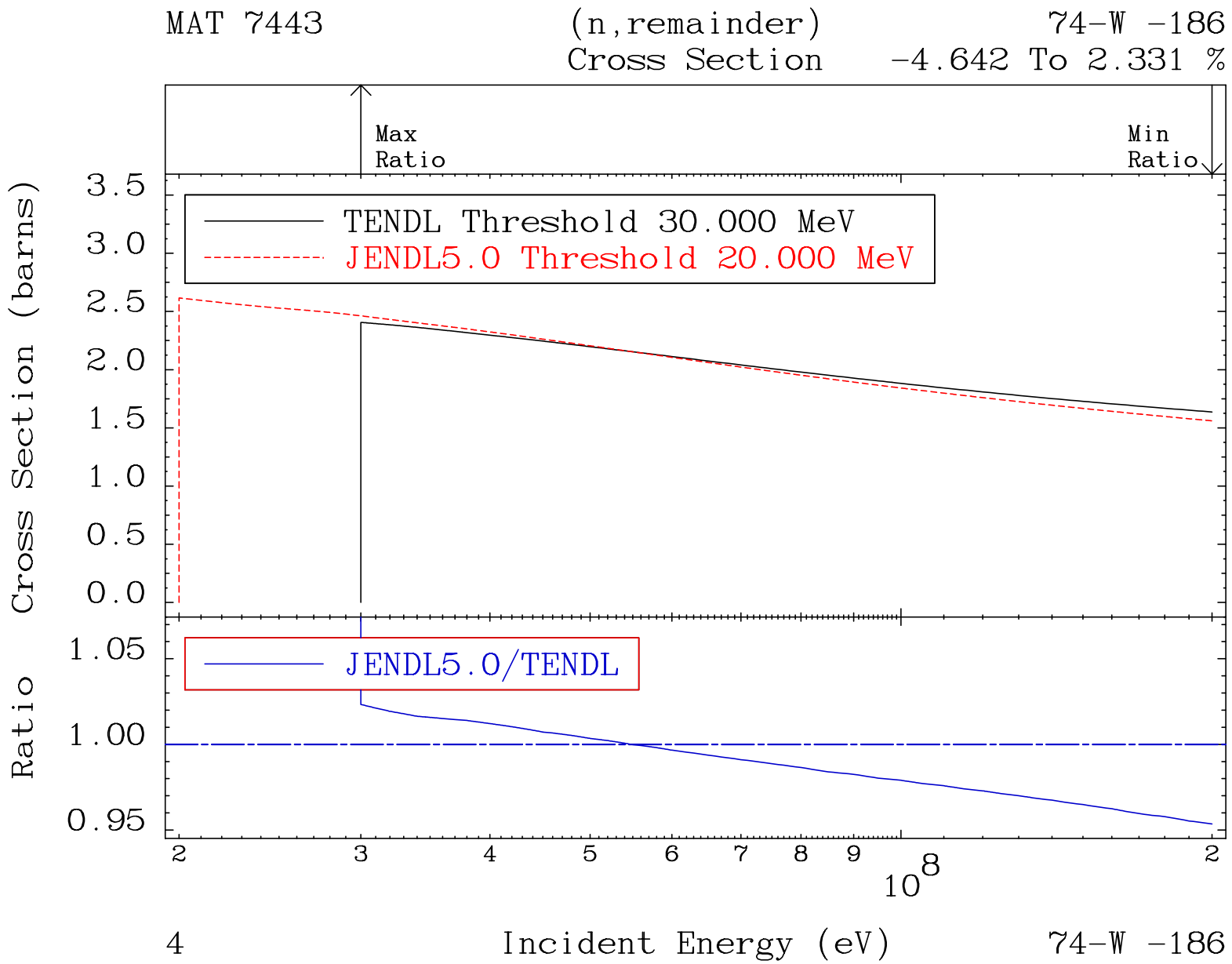
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

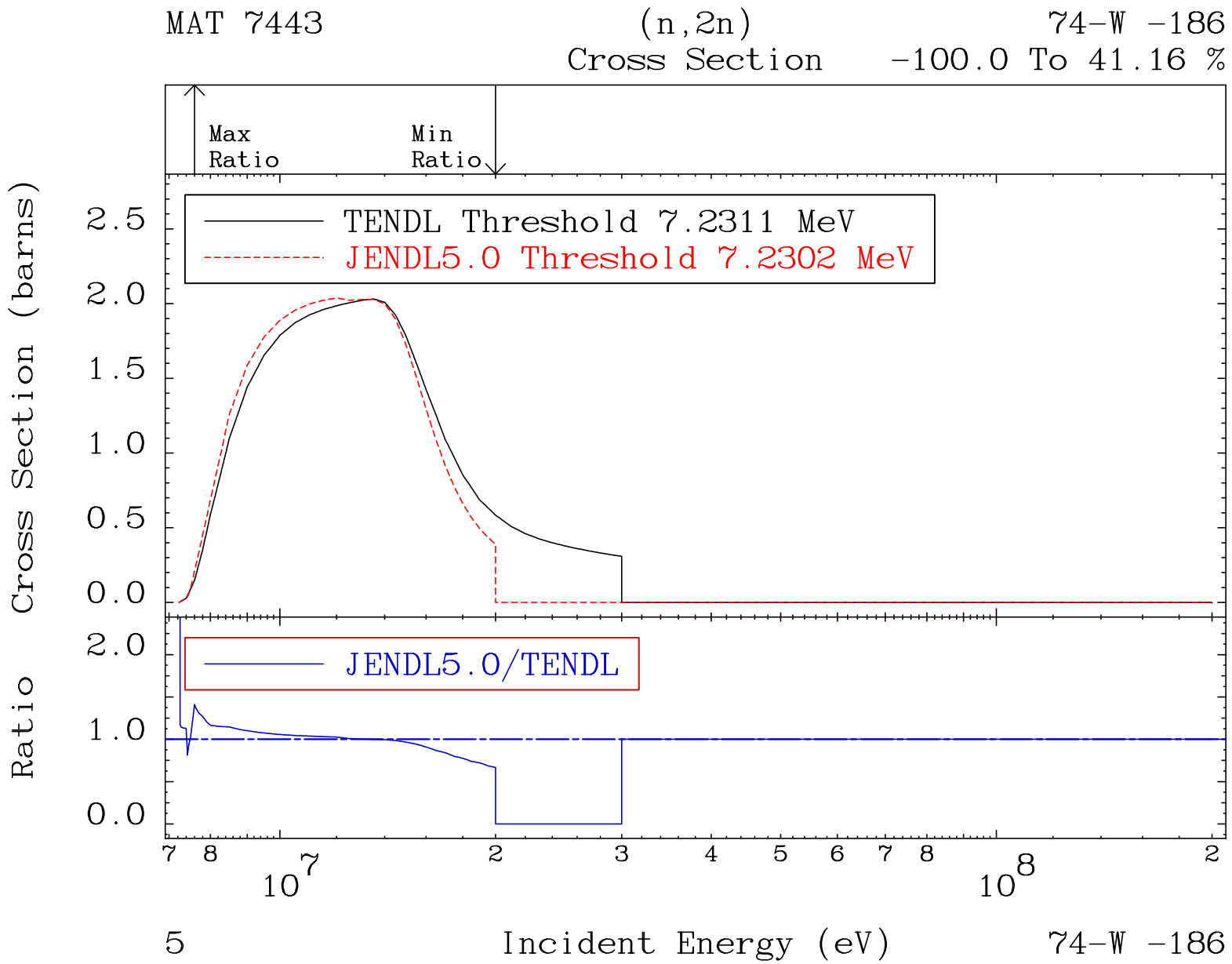
Press Mouse Button to Start

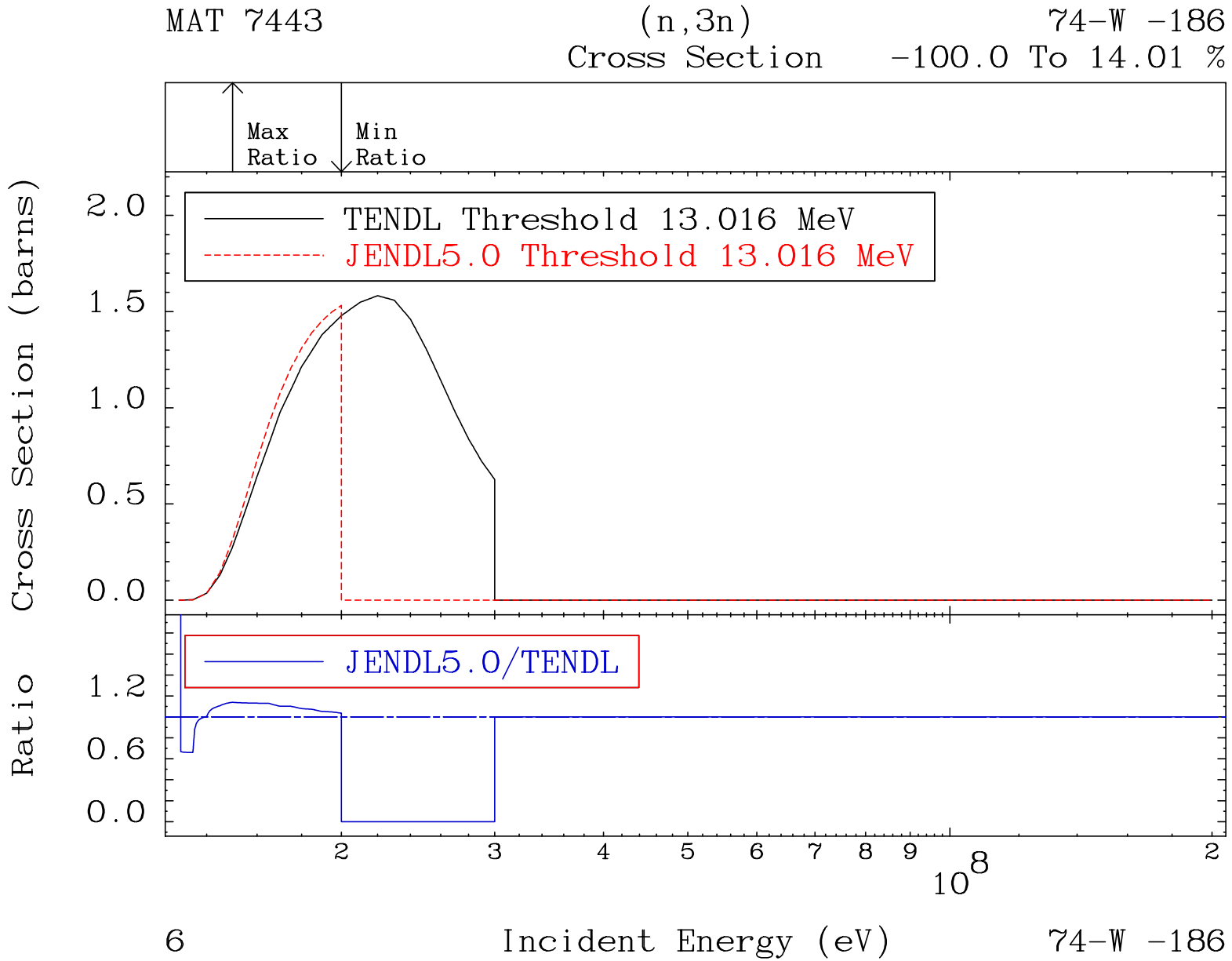

MAT 7443
Total
Cross Section
74-W -186
-99.61 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
74-W -186

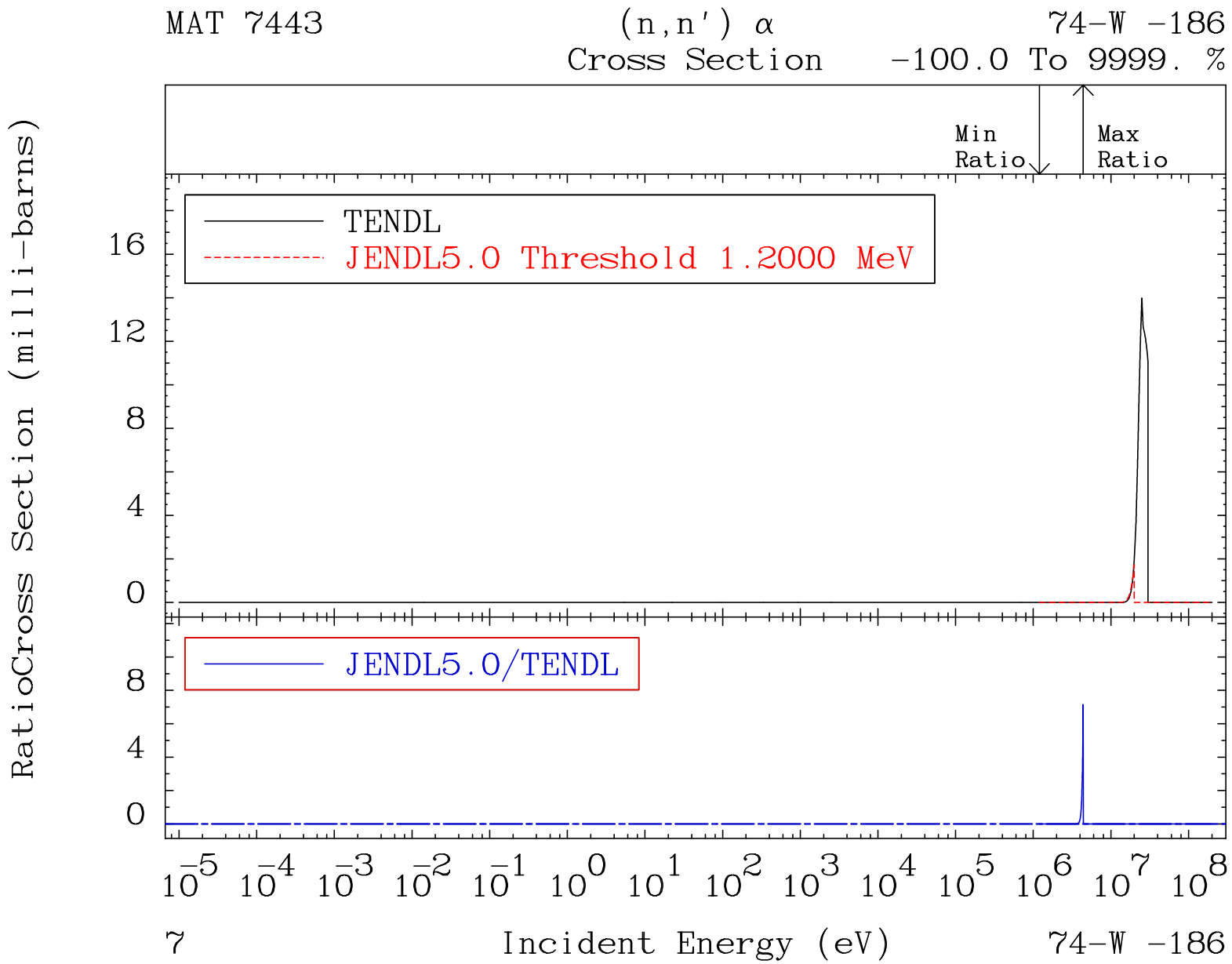

MAT 7443
Elastic
Cross Section
74-W -186
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
74-W -186

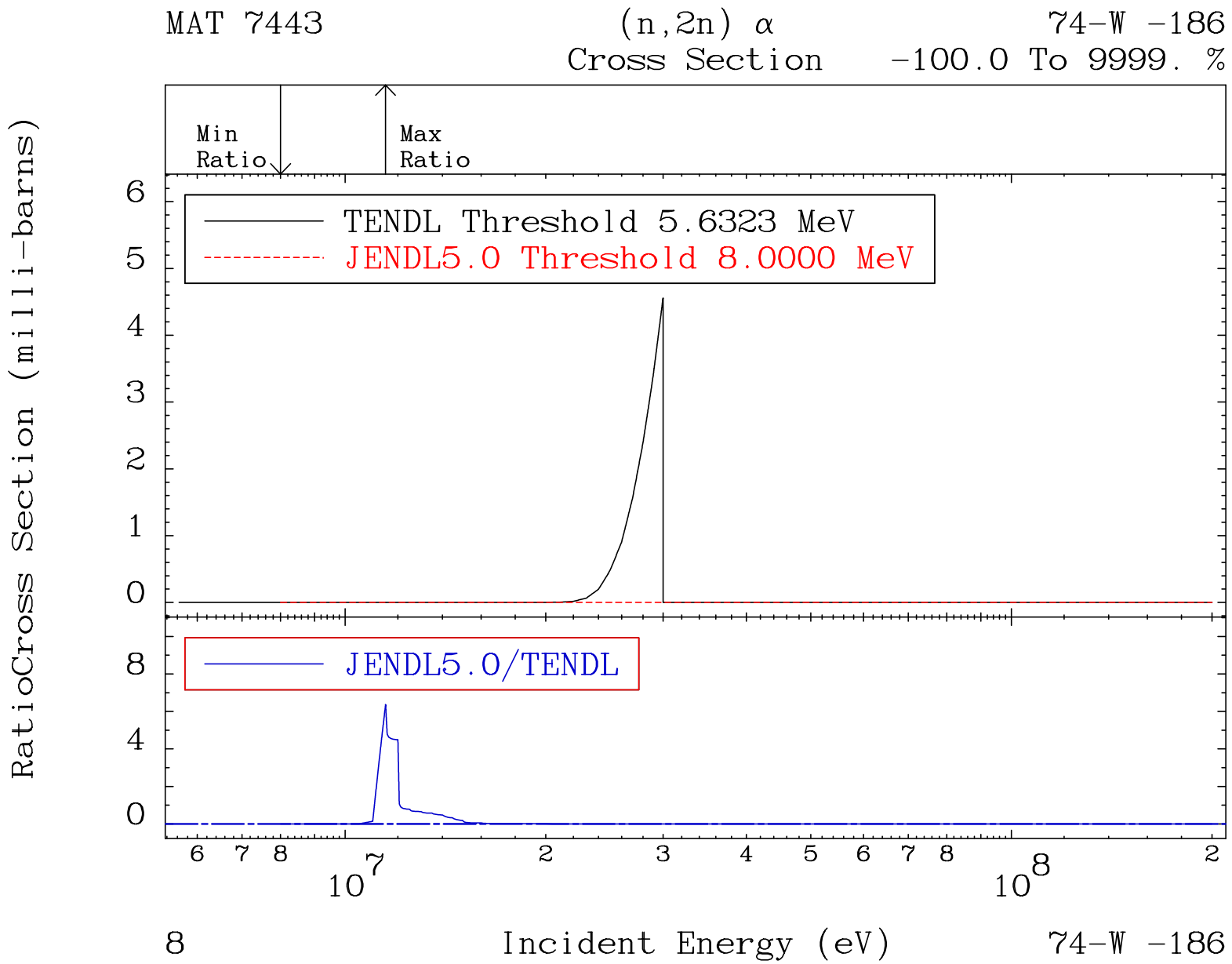

MAT 7443
Inelastic
Cross Section
74-W -186
-100.0 To 286.0 %
Max
Ratio
Min
Ratio
TENDL Threshold 123.30 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74-W -186
3

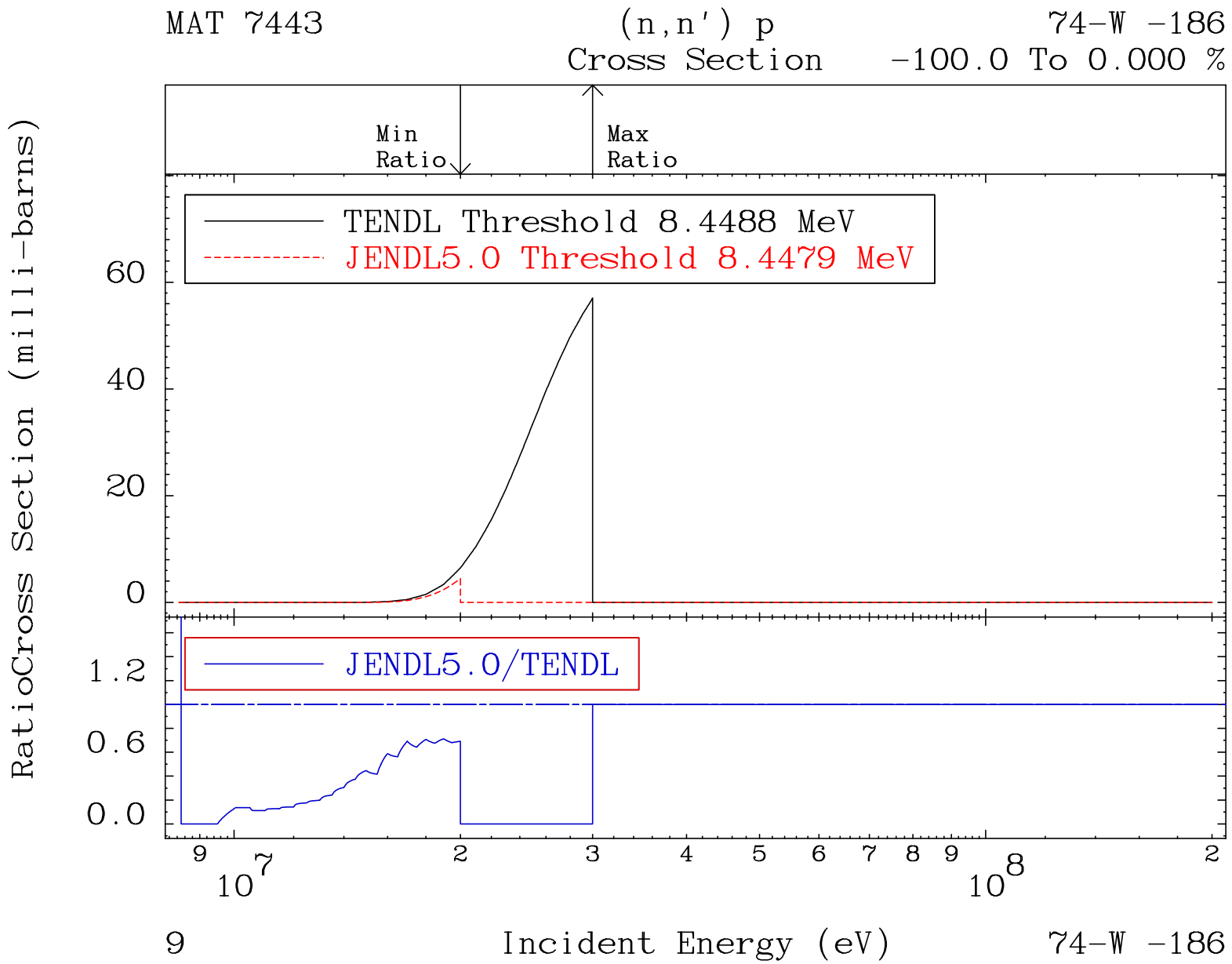

MAT 7443
(n,remainder)
Cross Section
74-W -186
-4.642 To 2.331 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1.05
1.00
0.95
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
74-W -186

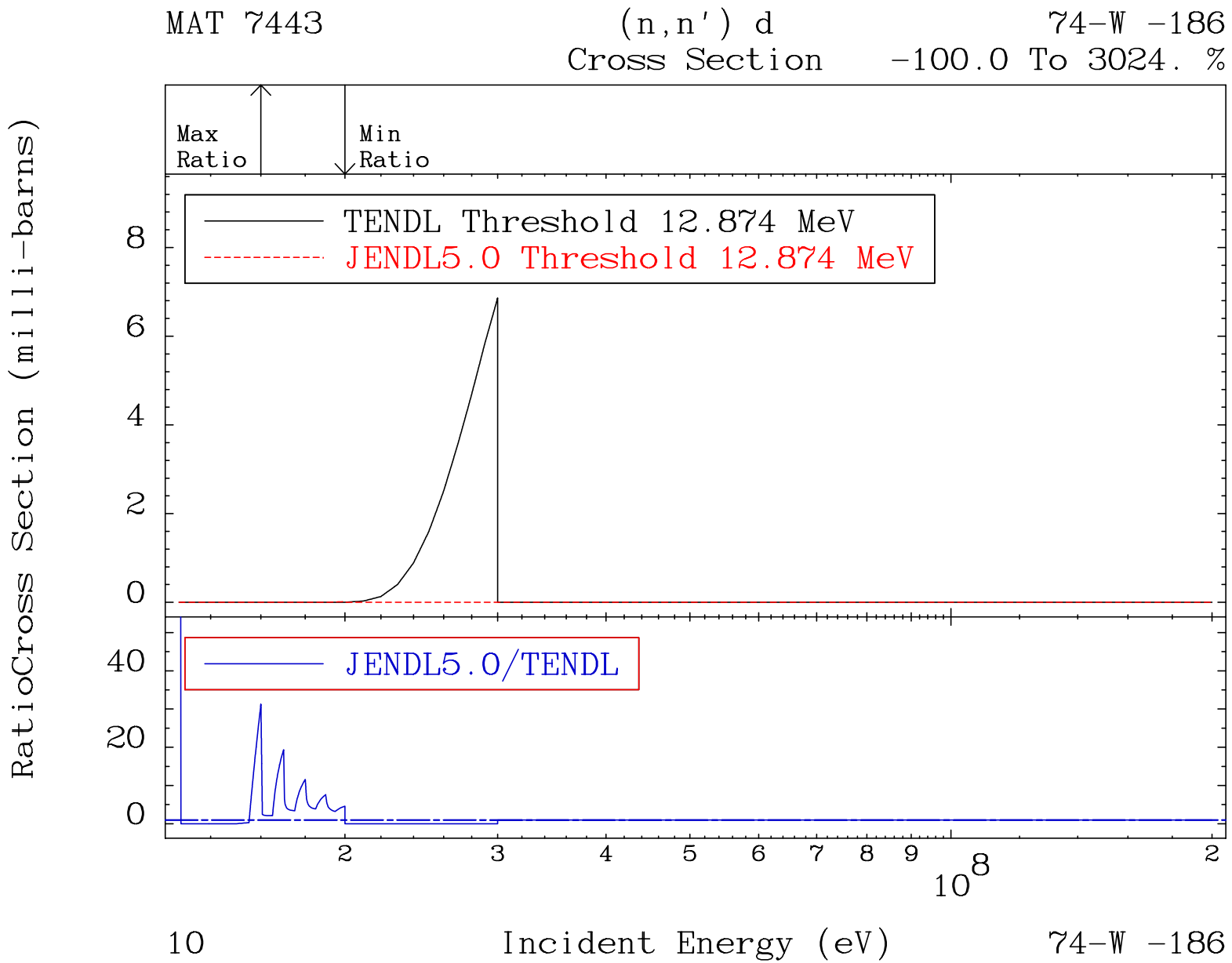

MAT 7443
(n,2n)
Cross Section
74-W -186
-100.0 To 41.16 %
Max Ratio
Min Ratio
TENDL Threshold 7.2311 MeV
JENDL5.0 Threshold 7.2302 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
5
74-W -186

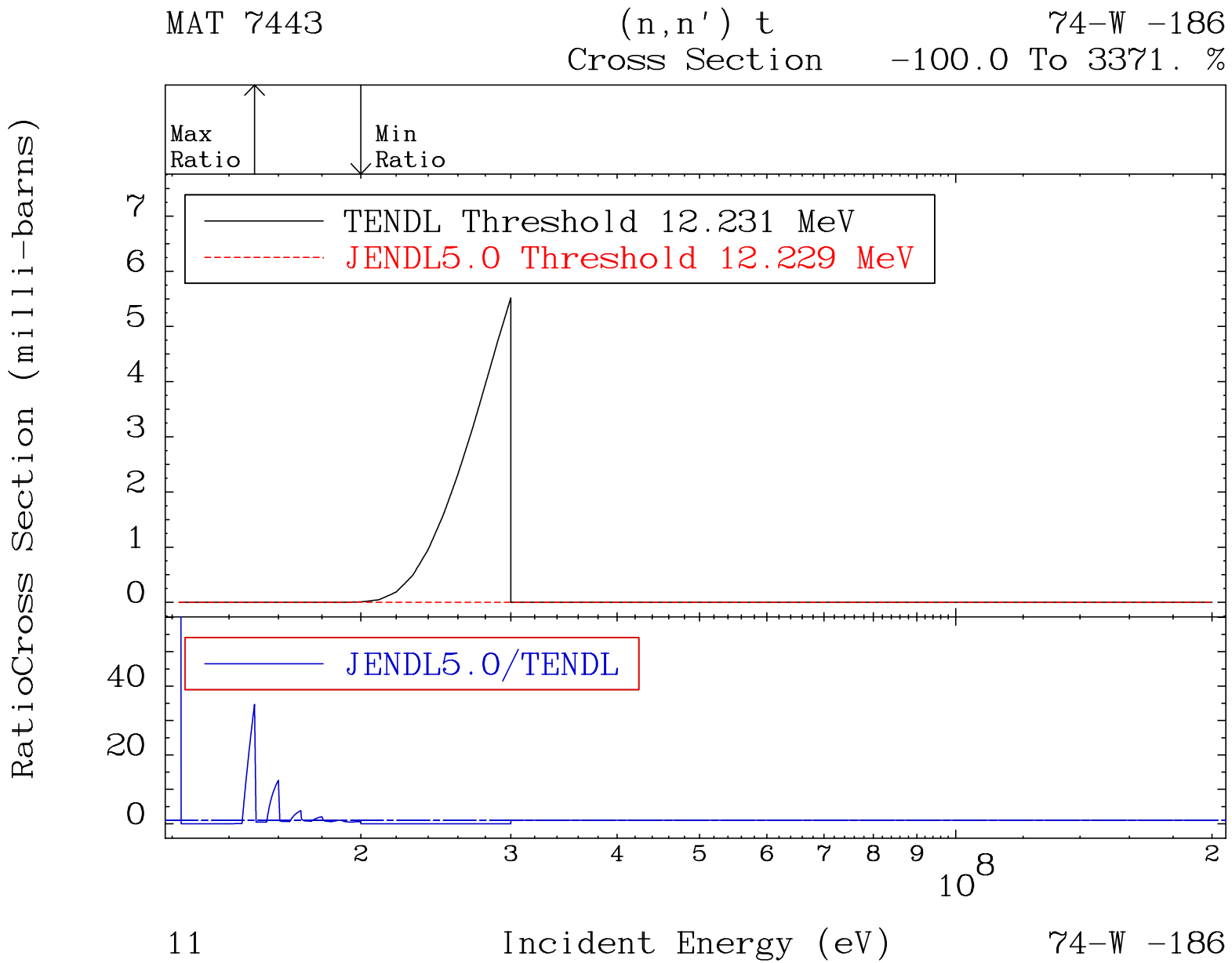

MAT 7443
(n,3n)
Cross Section
74-W -186
-100.0 To 14.01 %
Max Ratio
Min Ratio
TENDL Threshold 13.016 MeV
JENDL5.0 Threshold 13.016 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
6
74-W -186

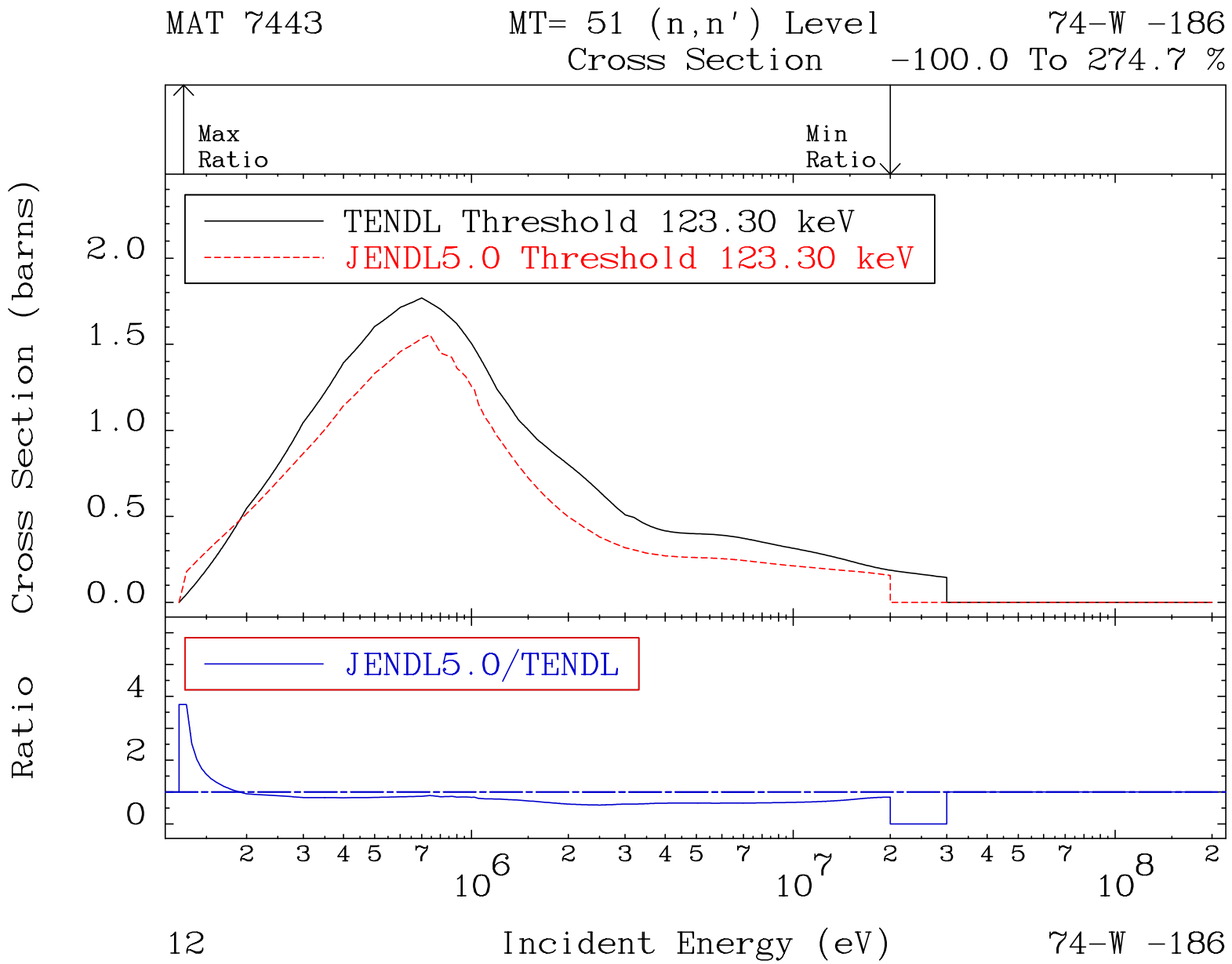

MAT 7443
(n,n') α
Cross Section
74-W -186
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 1.2000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
8
4
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
7
Incident Energy (eV)
74-W -186

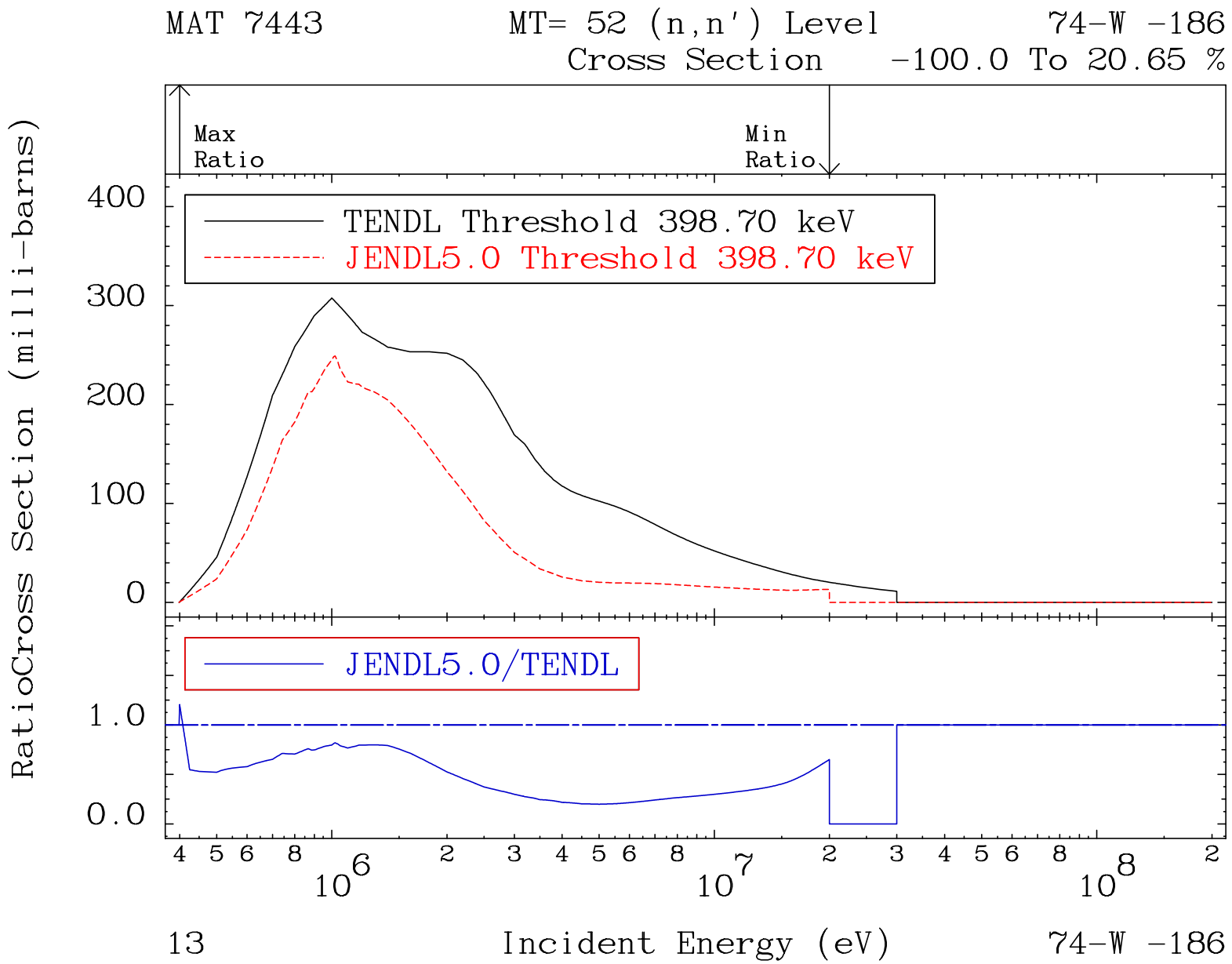

MAT 7443
(n,2n) α
Cross Section
74-W -186
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.6323 MeV
JENDL5.0 Threshold 8.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
74-W -186
8

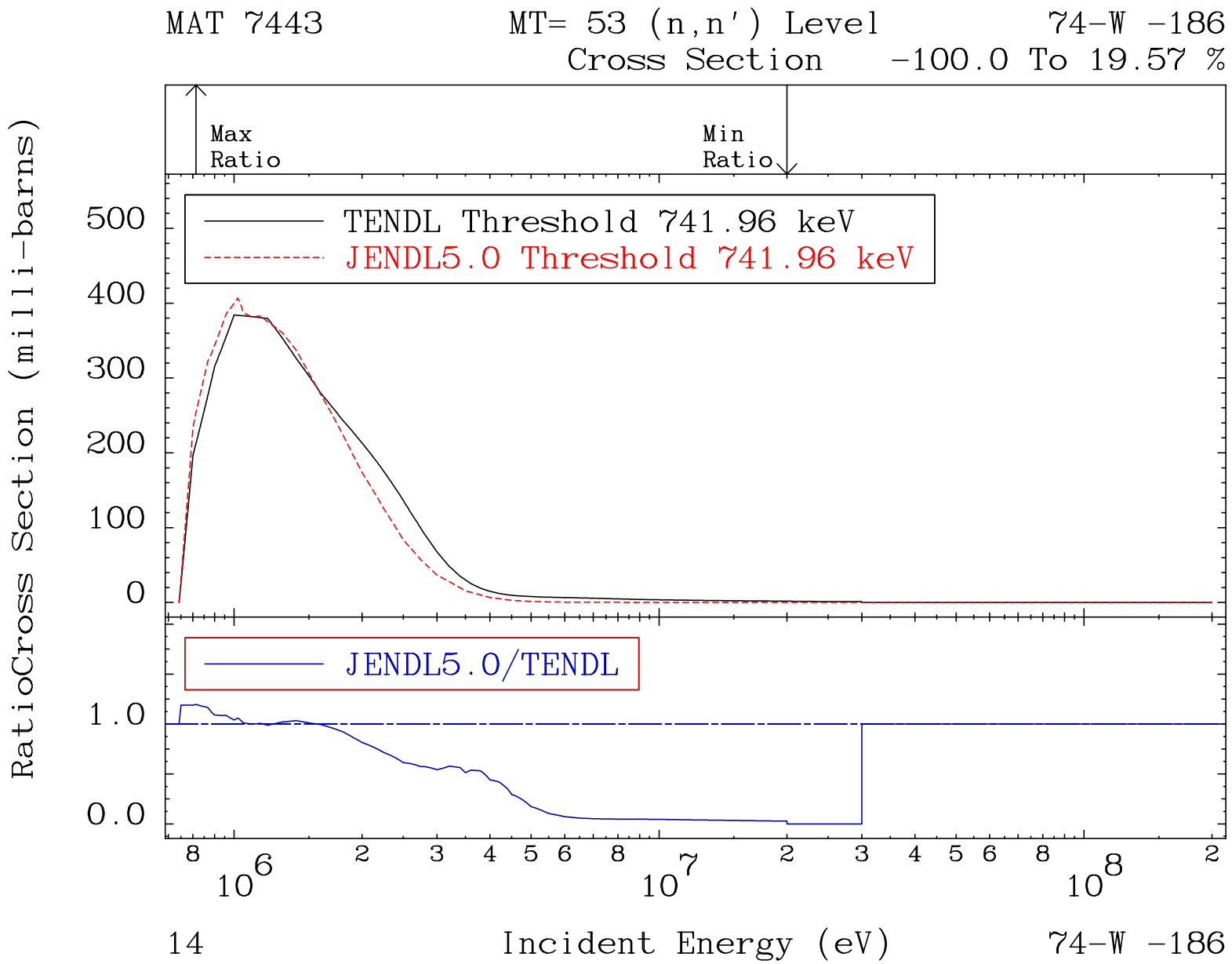

MAT 7443
(n,n') p
Cross Section
74-W -186
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.4488 MeV
JENDL5.0 Threshold 8.4479 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
74-W -186

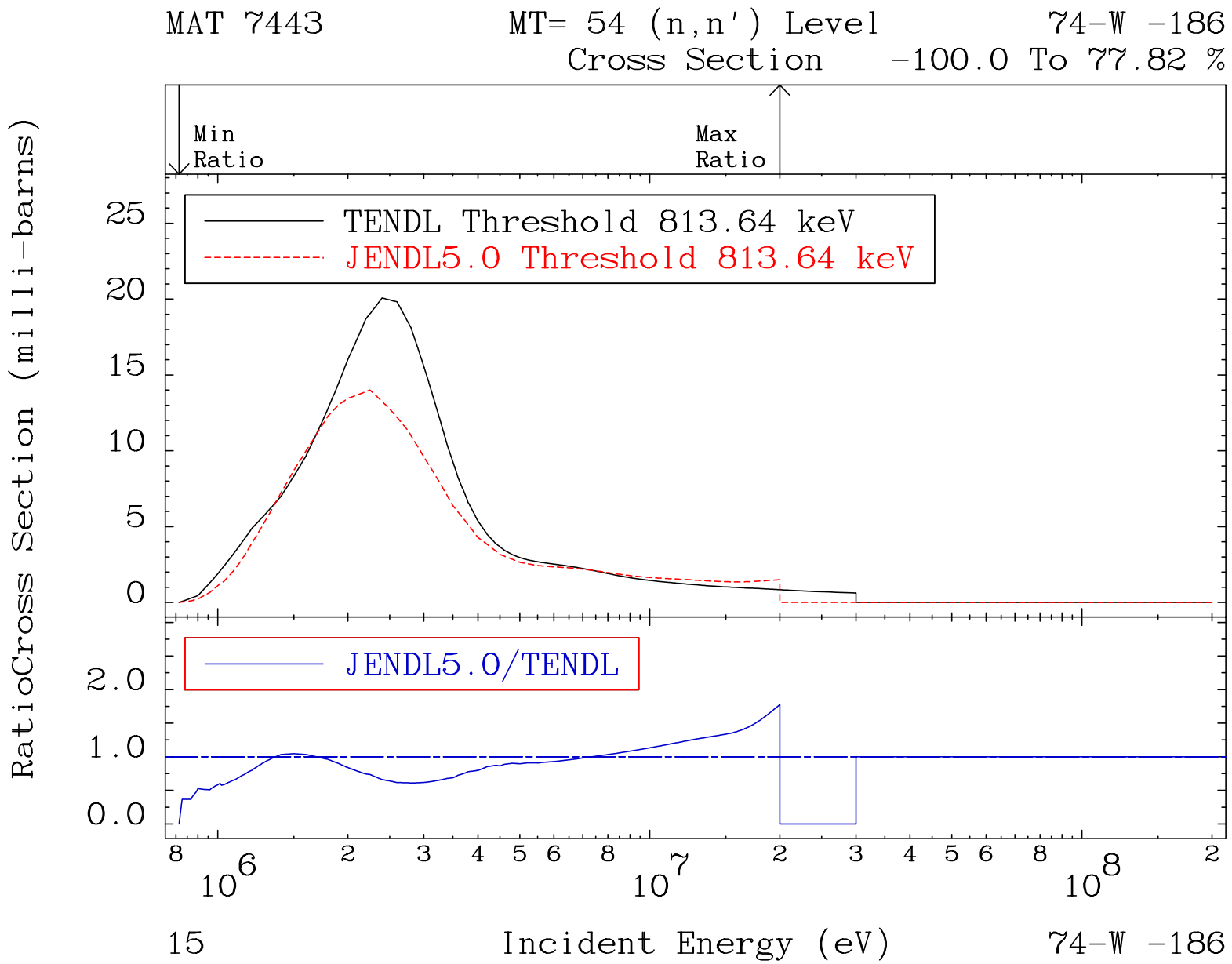

MAT 7443
(n,n') d
Cross Section
74-W -186
-100.0 To 3024. %
Max Ratio
Min Ratio
TENDL Threshold 12.874 MeV
JENDL5.0 Threshold 12.874 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10
74-W -186

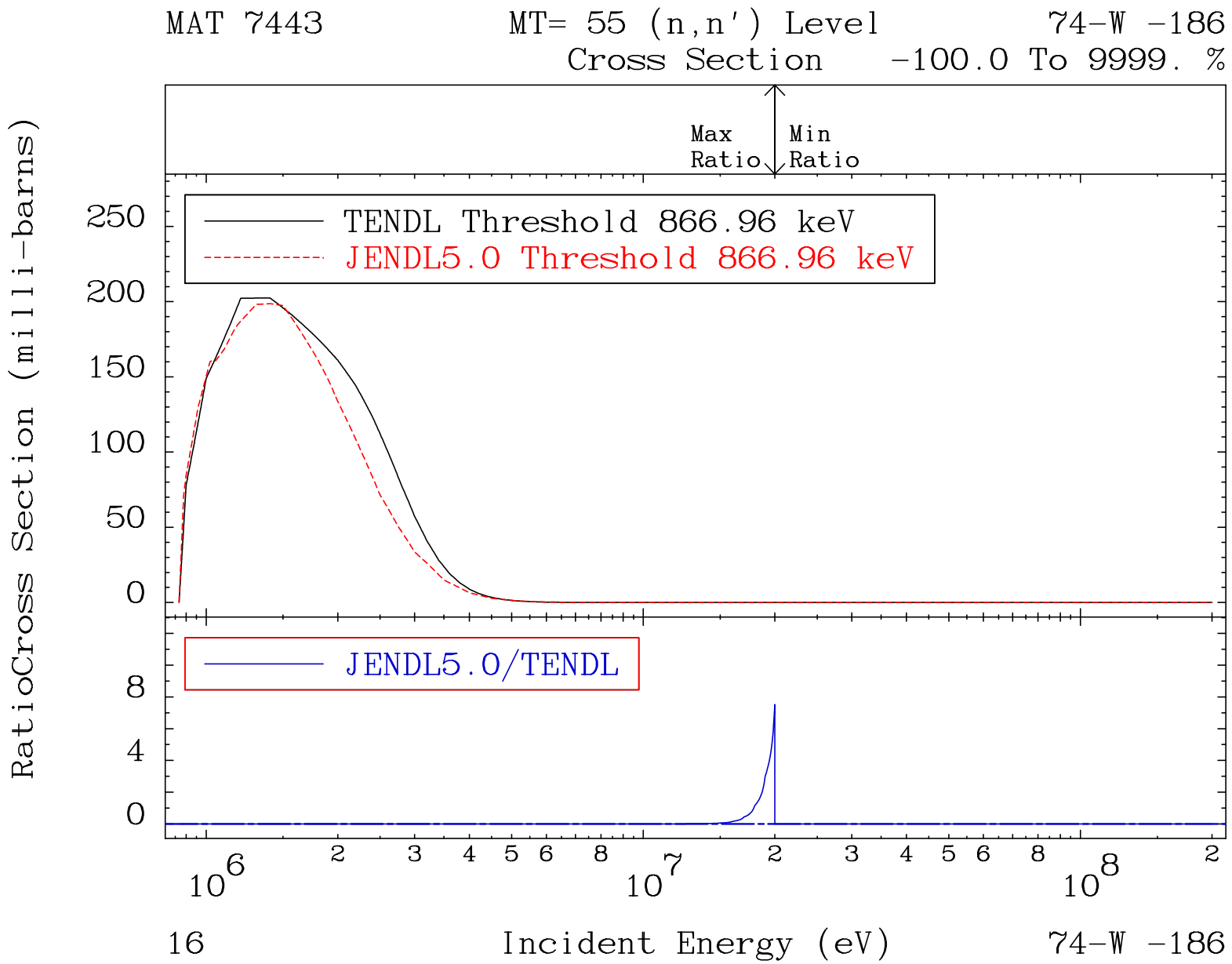

MAT 7443
(n,n') t
Cross Section
74-W -186
-100.0 To 3371. %
Max Ratio
Min Ratio
TENDL Threshold 12.231 MeV
JENDL5.0 Threshold 12.229 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
74-W -186

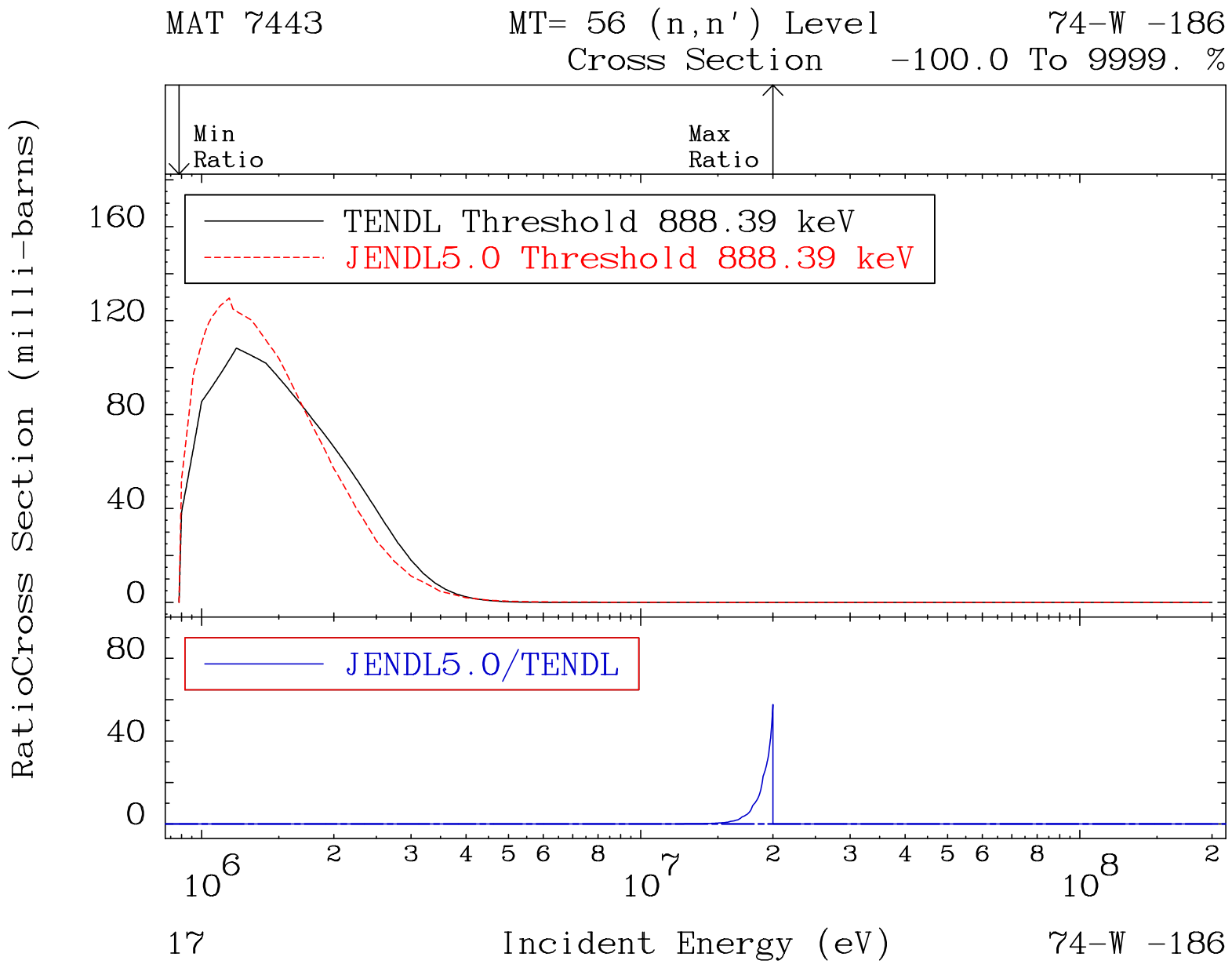

MAT 7443
MT= 51 (n,n') Level
74-W -186
Cross Section -100.0 To 274.7 %
Max Ratio
Min Ratio
TENDL Threshold 123.30 keV
JENDL5.0 Threshold 123.30 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
12
Incident Energy (eV)
74-W -186

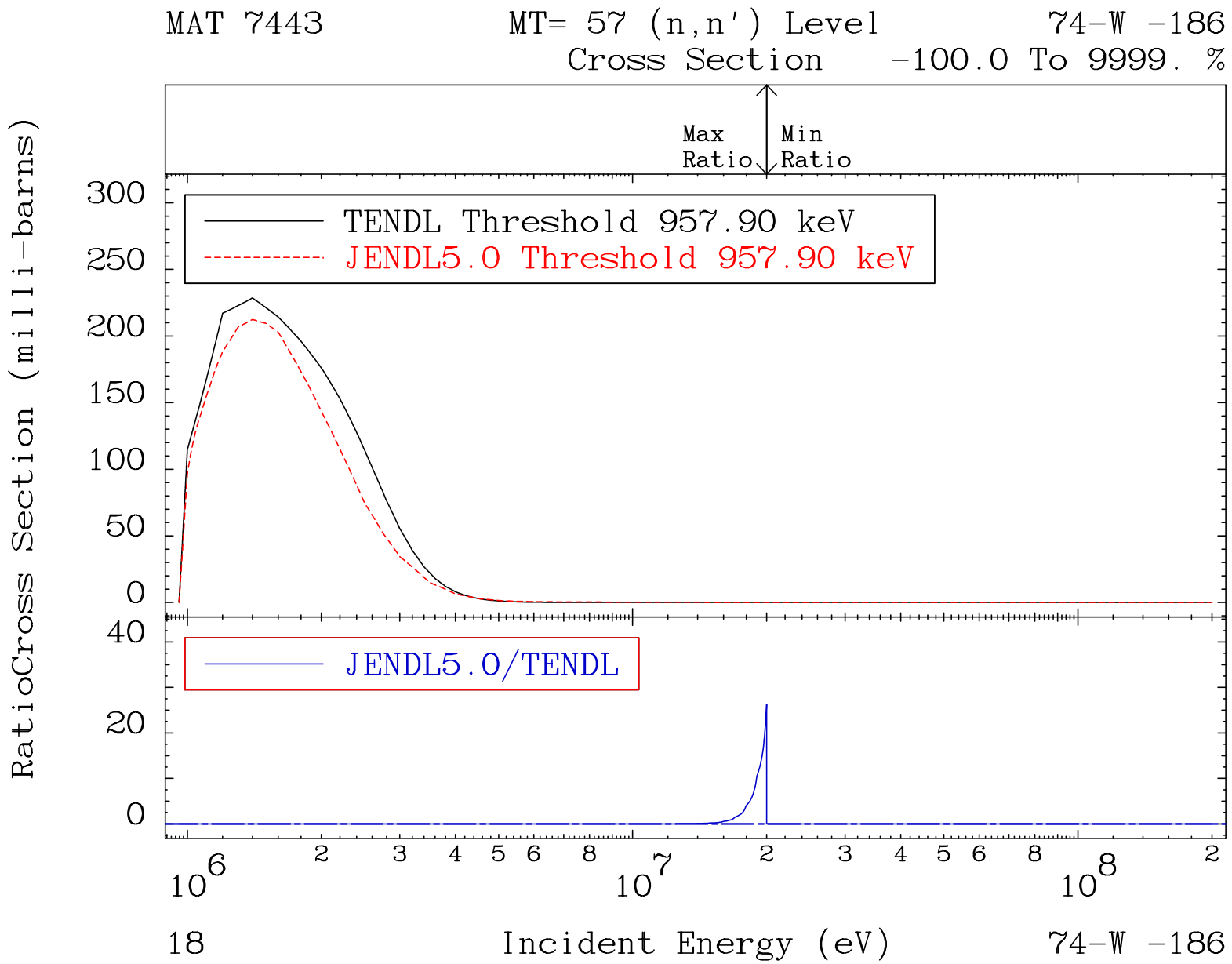

MAT 7443
MT= 52 (n,n') Level
74-W -186
Cross Section
-100.0 To 20.65 %
Max Ratio
Min Ratio
TENDL Threshold 398.70 keV
JENDL5.0 Threshold 398.70 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.0
0.0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
74-W -186

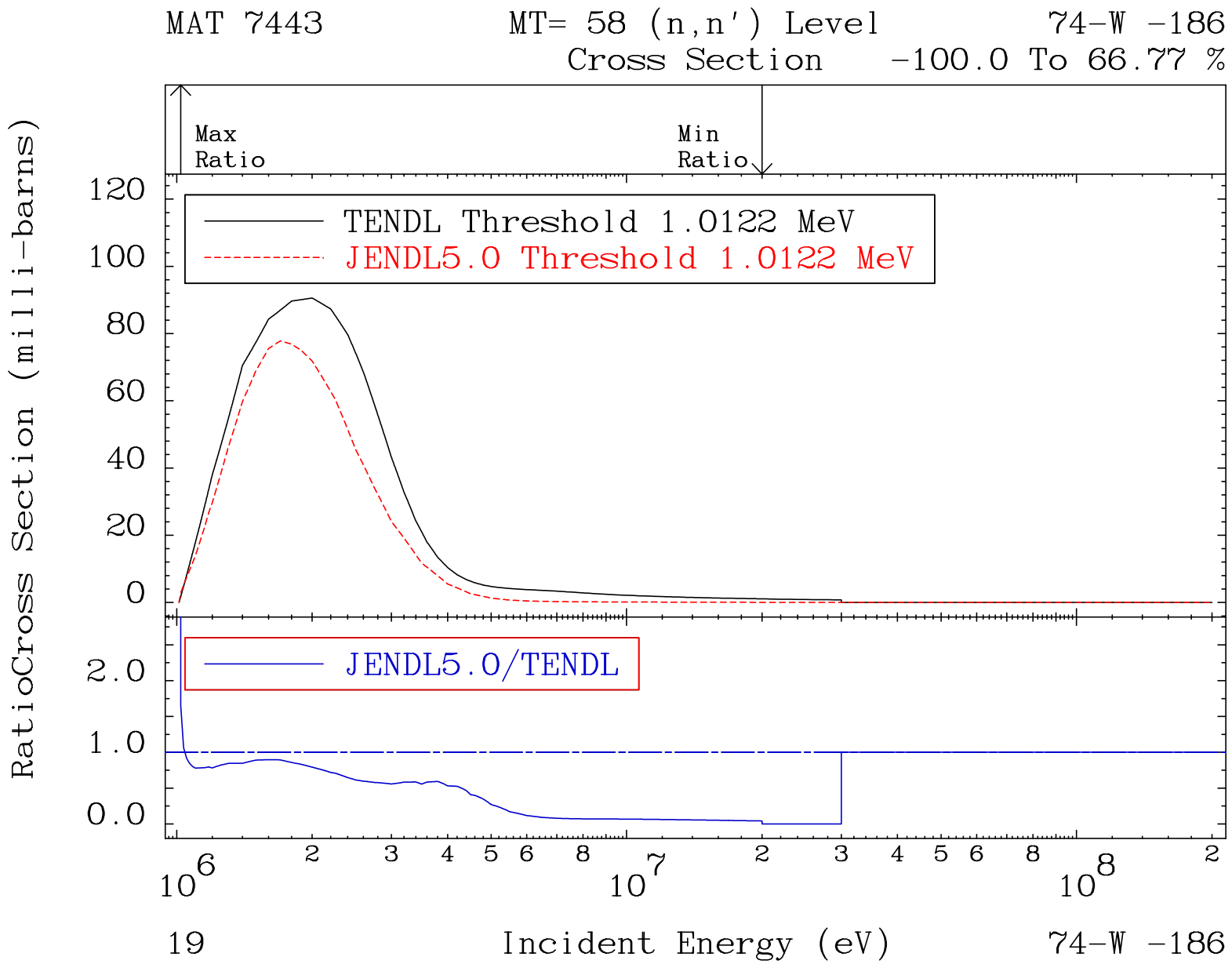

MAT 7443
MT= 53 (n,n') Level
74-W -186
Cross Section -100.0 To 19.57 %
Max Ratio
Min Ratio
TENDL Threshold 741.96 keV
JENDL5.0 Threshold 741.96 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
14
Incident Energy (eV)
74-W -186

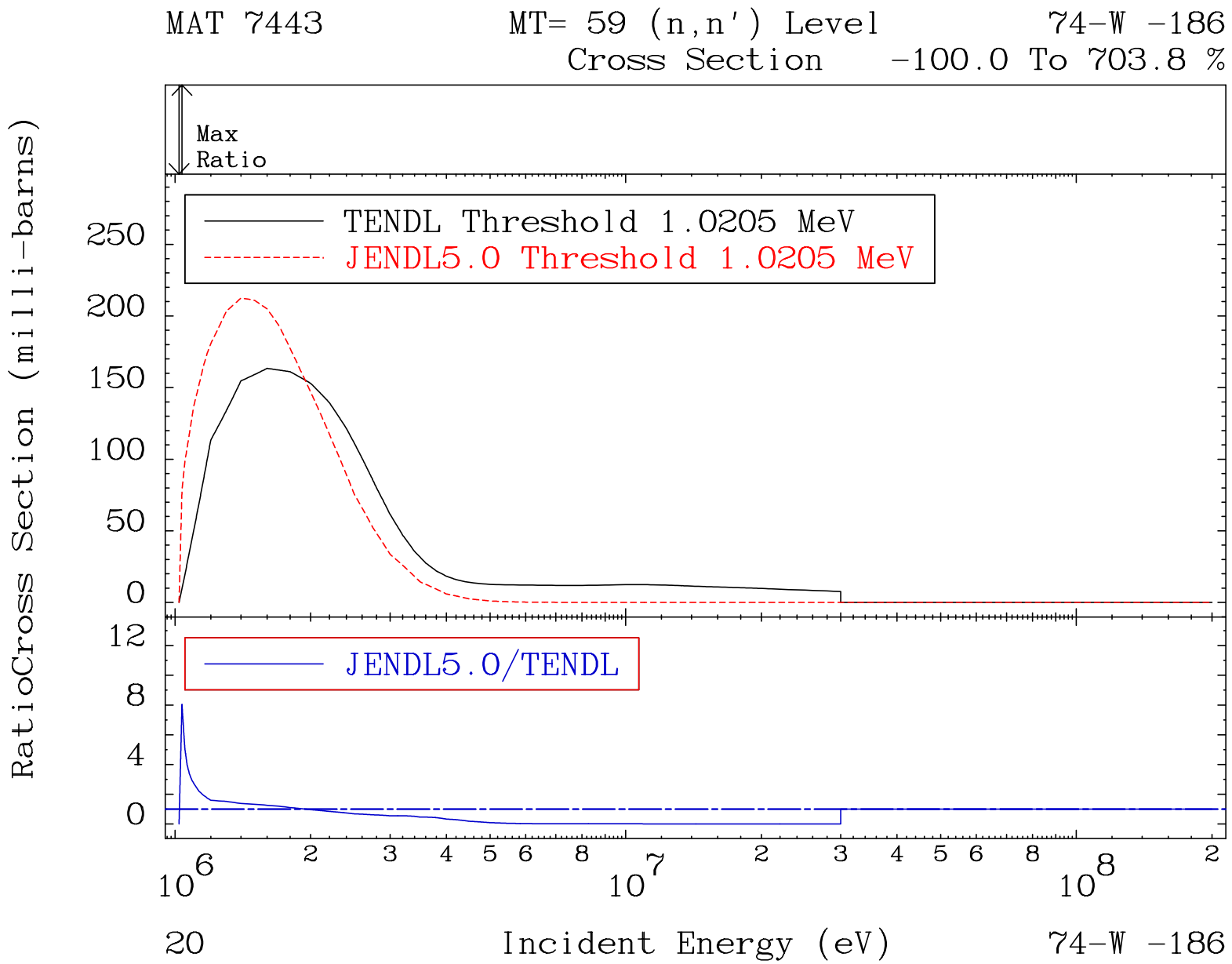

MAT 7443
MT= 54 (n,n') Level
74-W -186
Cross Section
-100.0 To 77.82 %
Min Ratio
Max Ratio
TENDL Threshold 813.64 keV
JENDL5.0 Threshold 813.64 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
15
Incident Energy (eV)
74-W -186

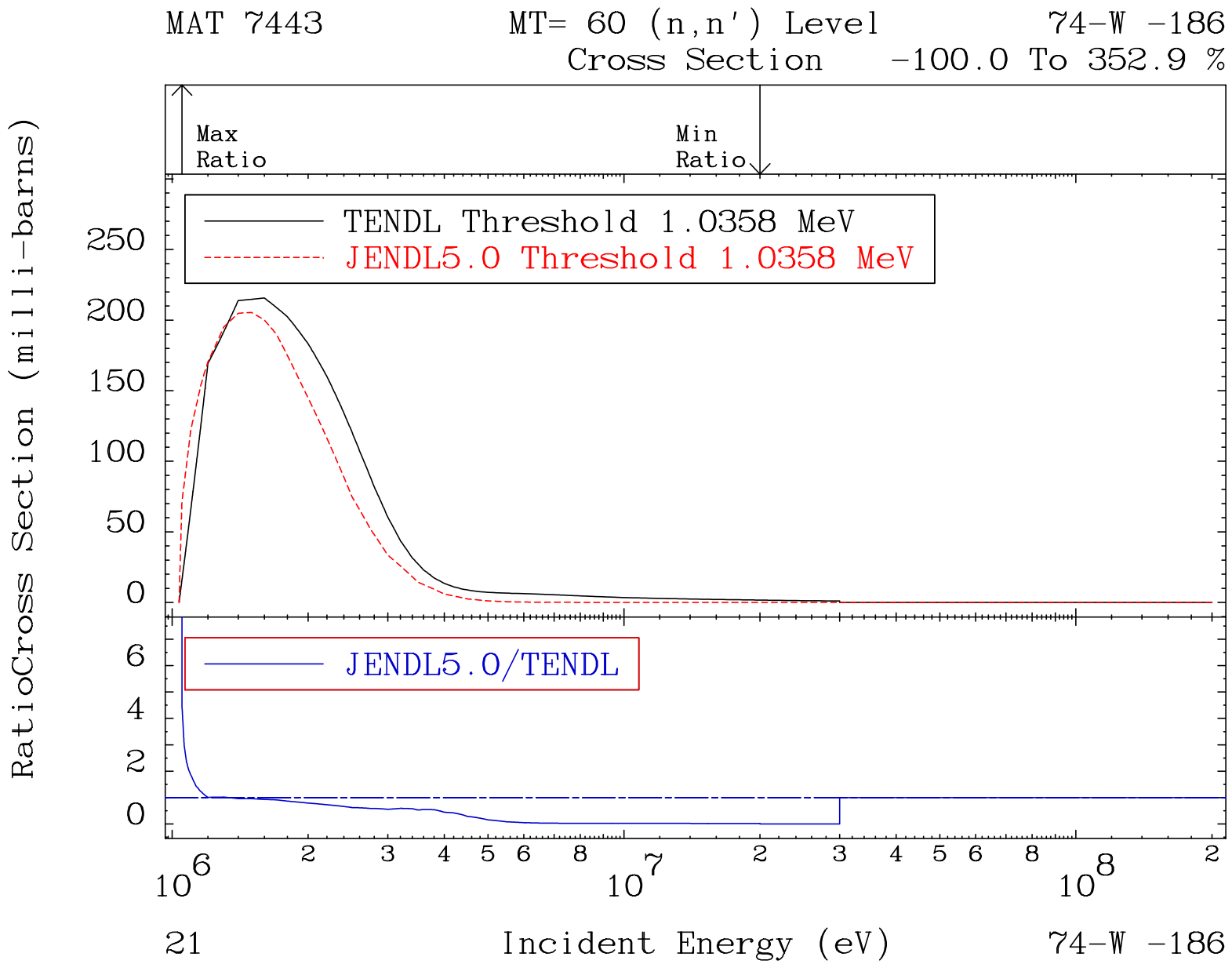

MAT 7443
MT= 55 (n,n') Level
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 866.96 keV
JENDL5.0 Threshold 866.96 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
8
4
0
2
3
4
5
6
8
10^6
10^7
10^8
16
Incident Energy (eV)
74-W -186

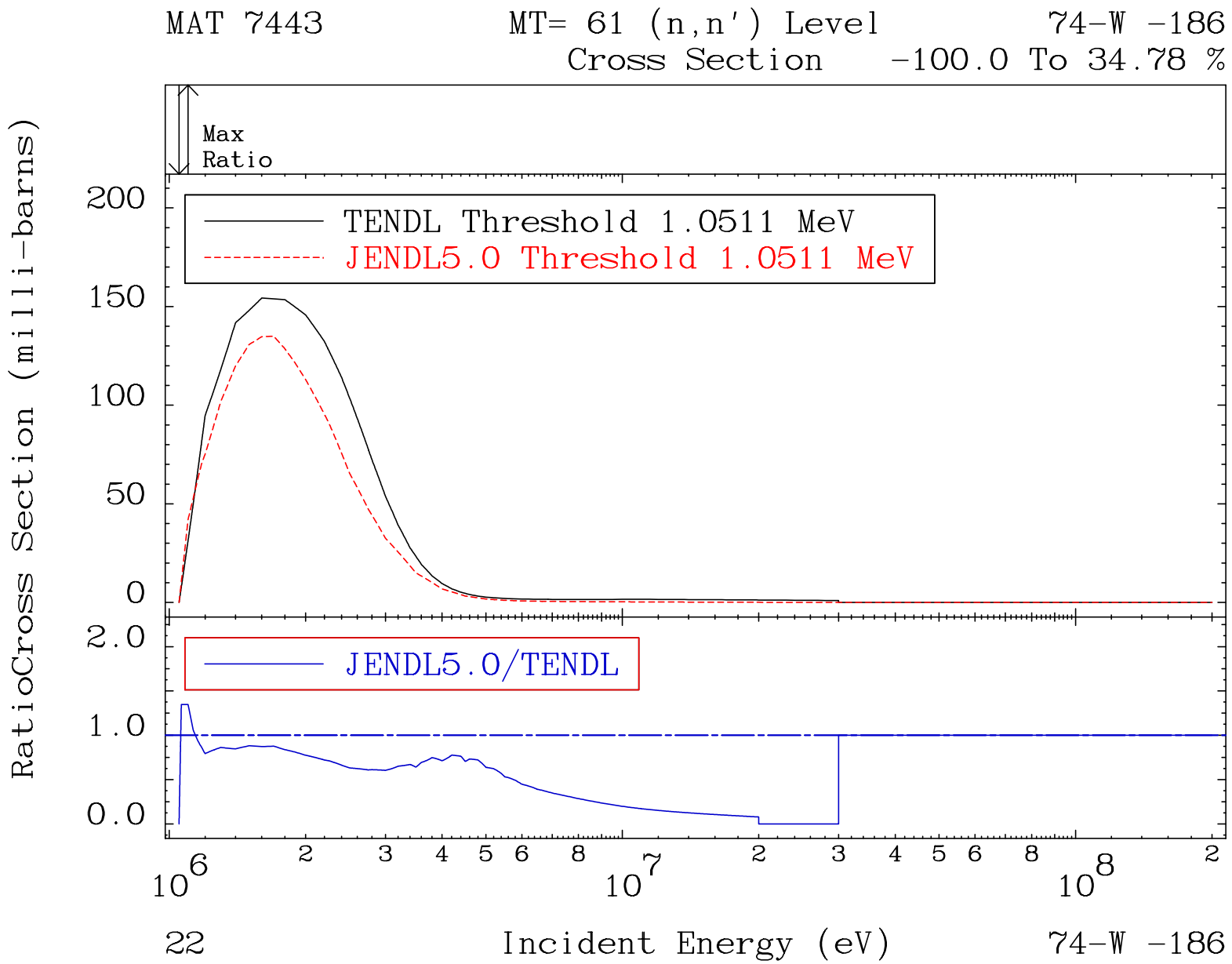

MAT 7443
MT= 56 (n,n') Level
74-W -186
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 888.39 keV
JENDL5.0 Threshold 888.39 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
80
40
0
10^6
10^7
10^8
2 3 4 5 6 8
17
Incident Energy (eV)
74-W -186

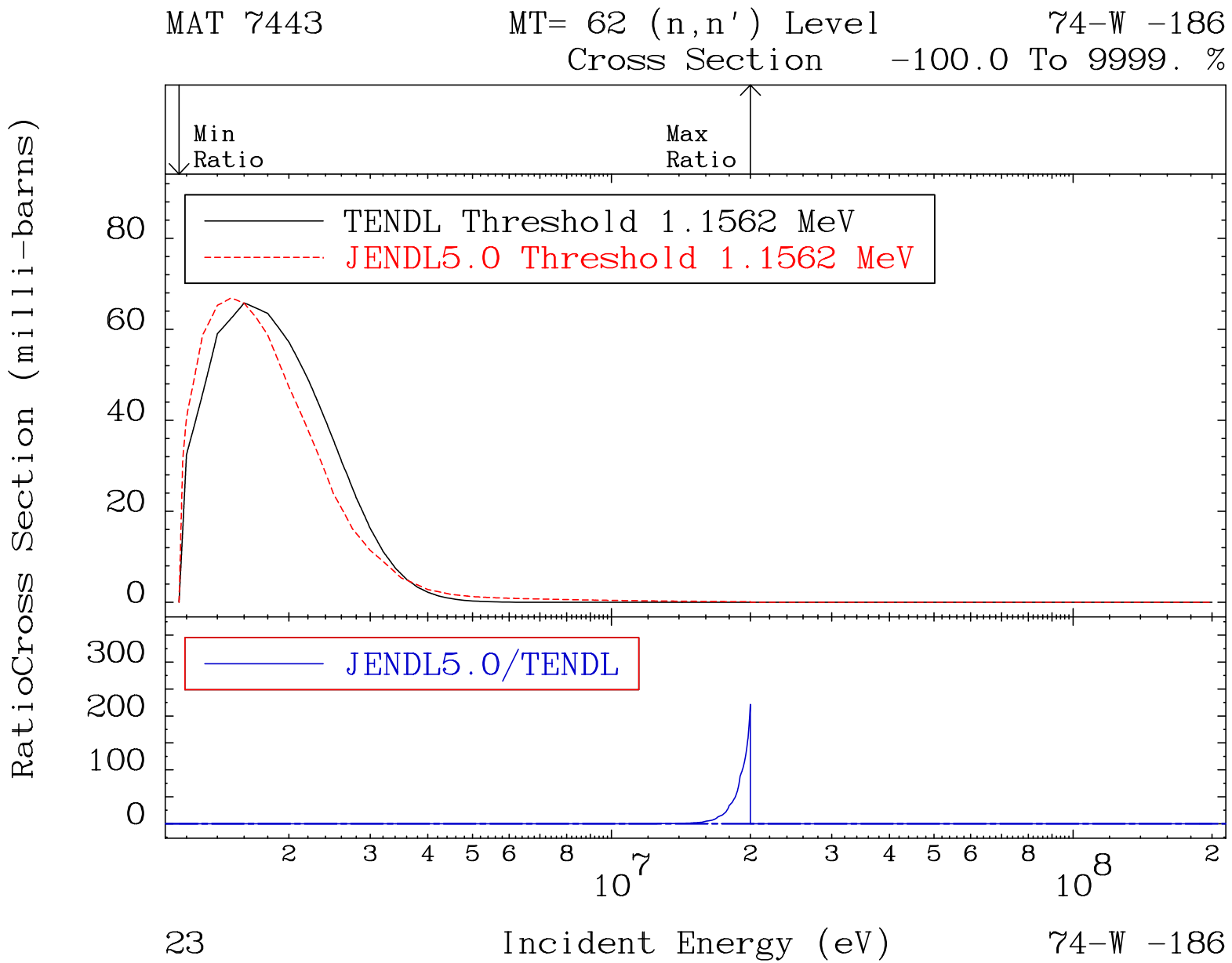

MAT 7443
MT= 57 (n,n') Level
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 957.90 keV
JENDL5.0 Threshold 957.90 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
40
20
0
10^6
10^7
10^8
Incident Energy (eV)
18
74-W -186

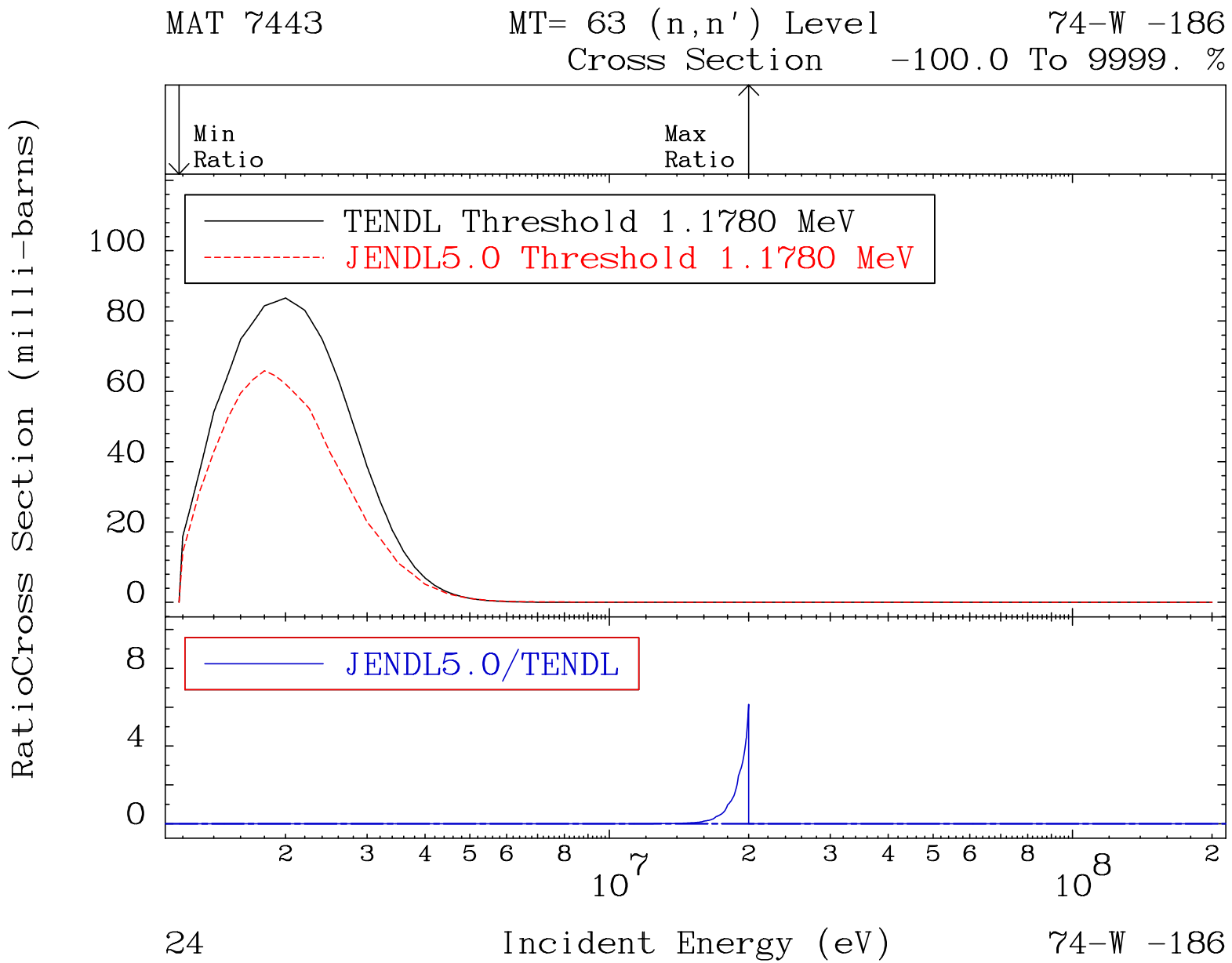

MAT 7443
MT= 58 (n,n') Level
74-W -186
Cross Section
-100.0 To 66.77 %
Max Ratio
Min Ratio
TENDL Threshold 1.0122 MeV
JENDL5.0 Threshold 1.0122 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
19
74-W -186

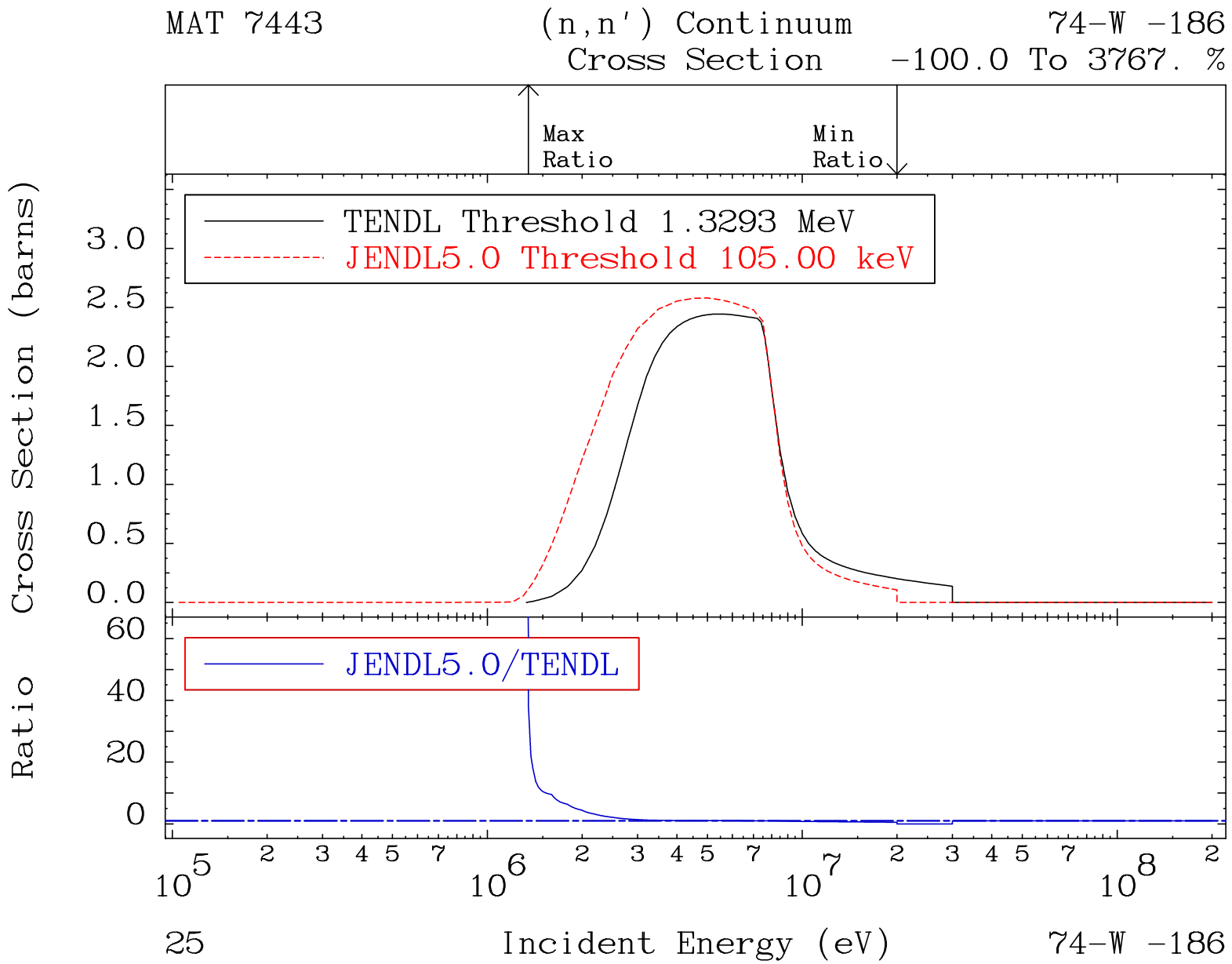

MAT 7443
MT= 59 (n,n') Level
74-W -186
Cross Section
-100.0 To 703.8 %
Max
Ratio
TENDL Threshold 1.0205 MeV
JENDL5.0 Threshold 1.0205 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
12
8
4
0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
20
Incident Energy (eV)
74-W -186

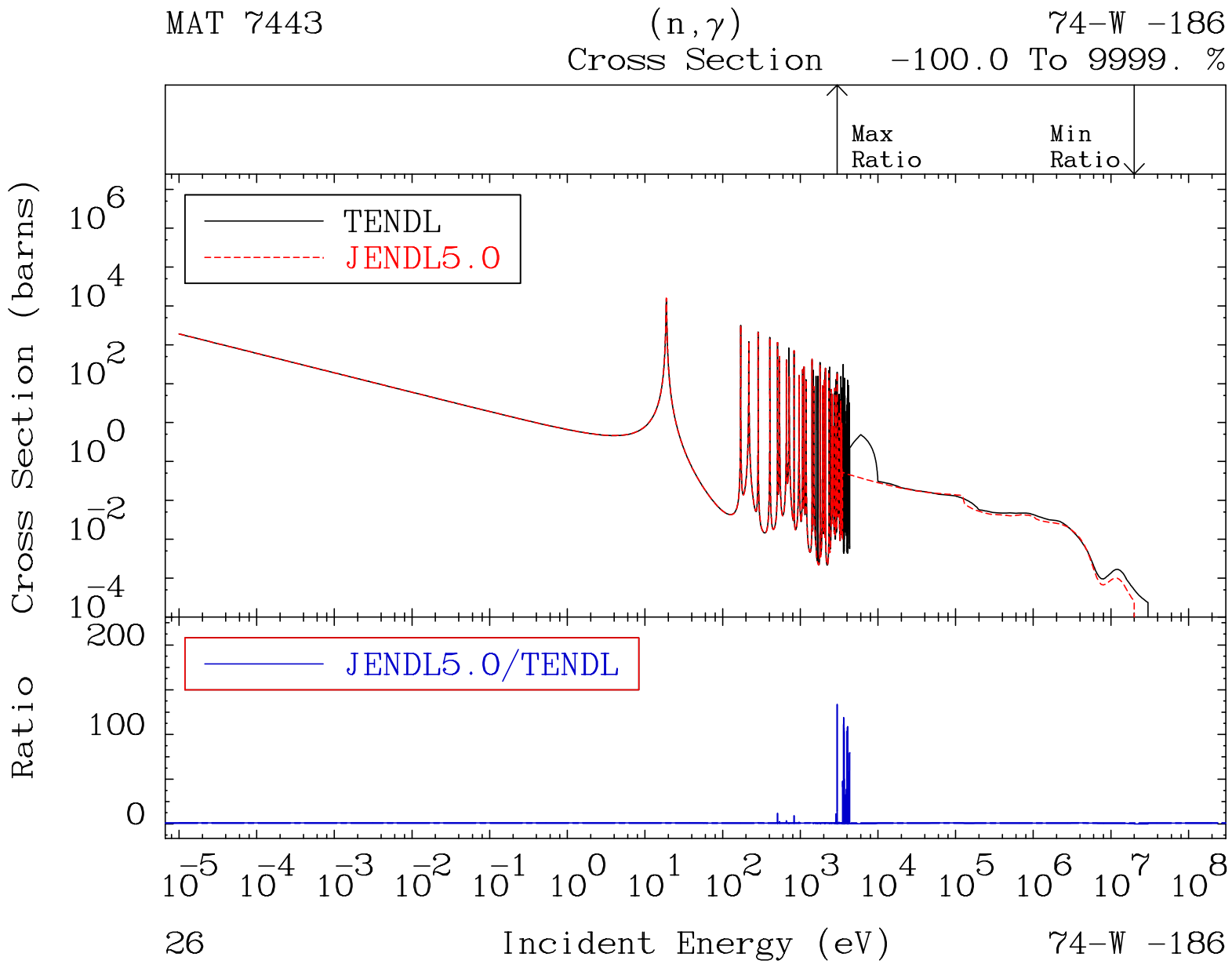

MAT 7443
MT= 60 (n,n') Level
74-W -186
Cross Section -100.0 To 352.9 %
Max Ratio
Min Ratio
TENDL Threshold 1.0358 MeV
JENDL5.0 Threshold 1.0358 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
6
4
2
0
10^6
10^7
10^8
Incident Energy (eV)
21
74-W -186

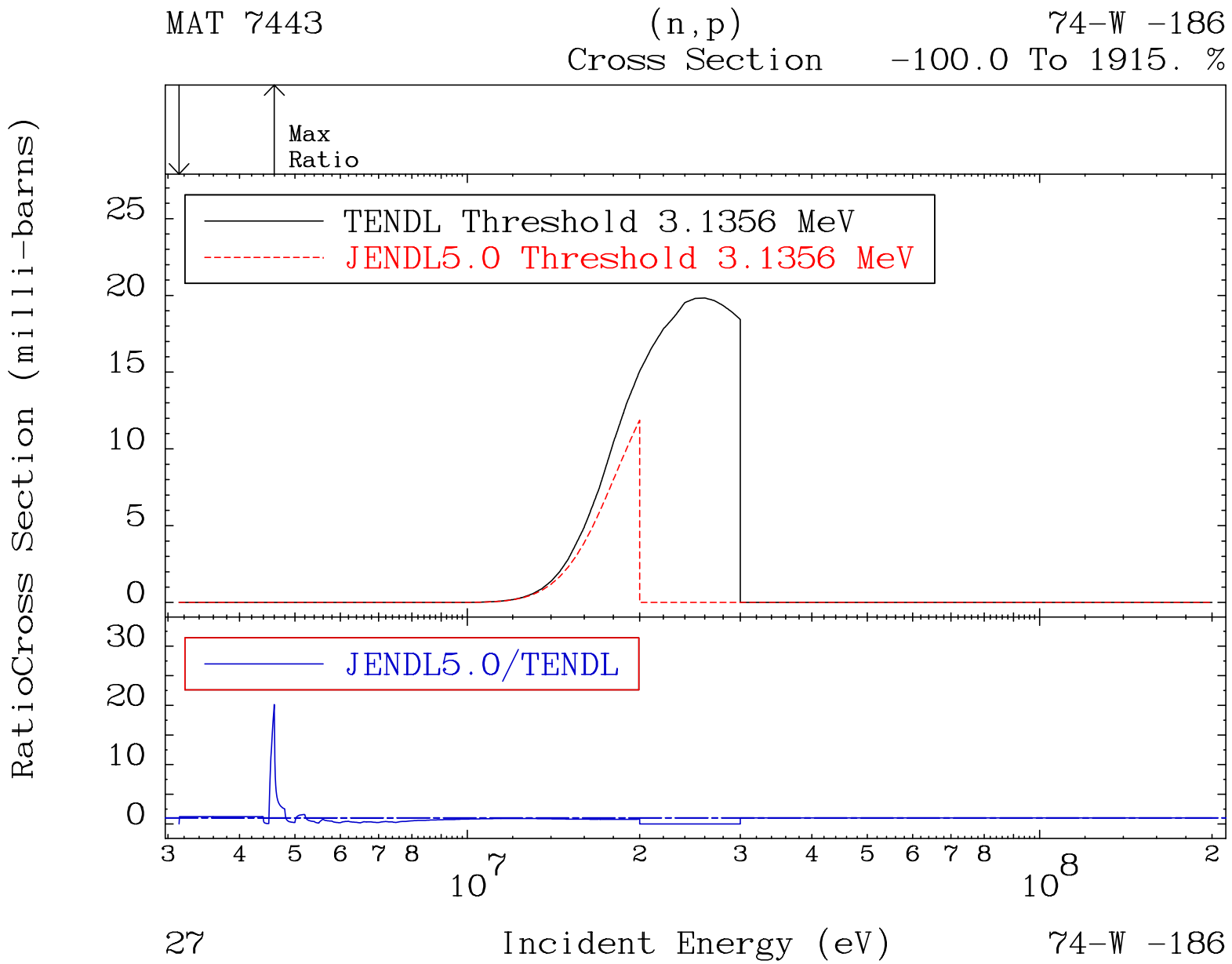

MAT 7443
MT= 61 (n,n') Level
74-W -186
Cross Section
-100.0 To 34.78 %
Max
Ratio
TENDL Threshold 1.0511 MeV
JENDL5.0 Threshold 1.0511 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
22
74-W -186

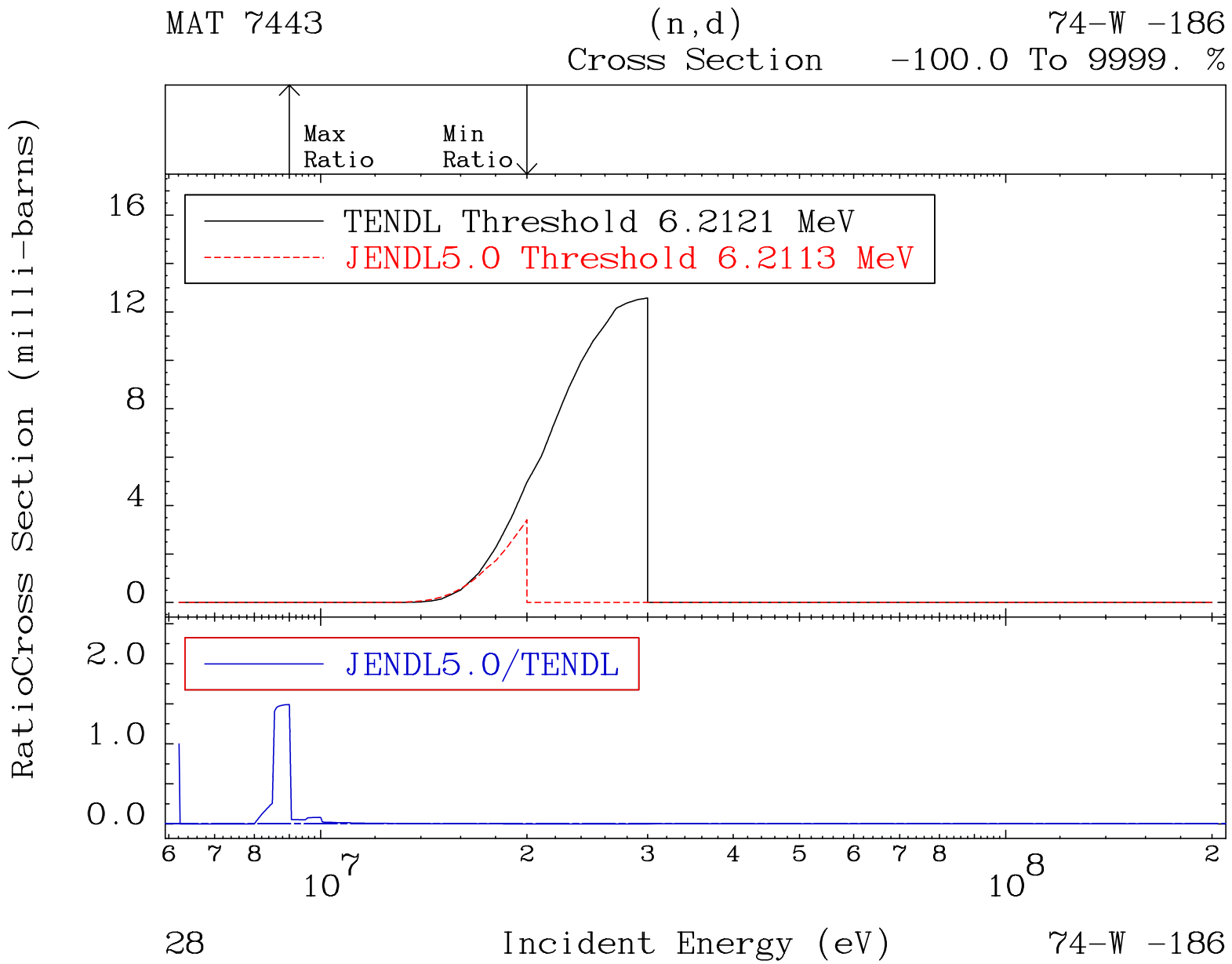

MAT 7443
MT= 62 (n,n') Level
74-W -186
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1562 MeV
JENDL5.0 Threshold 1.1562 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
300
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
74-W -186

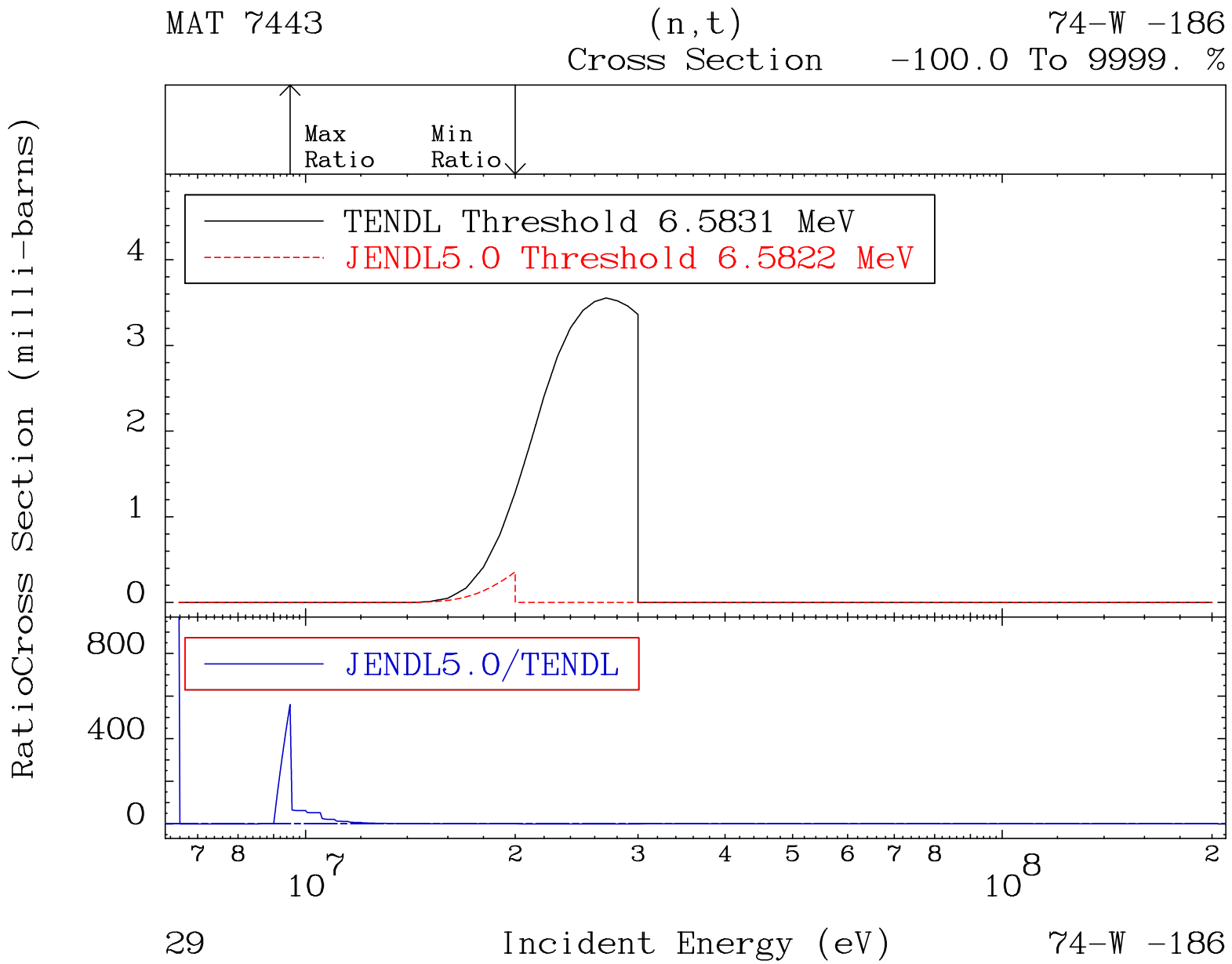

MAT 7443
MT= 63 (n,n') Level
74-W -186
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1780 MeV
JENDL5.0 Threshold 1.1780 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
24
Incident Energy (eV)
74-W -186

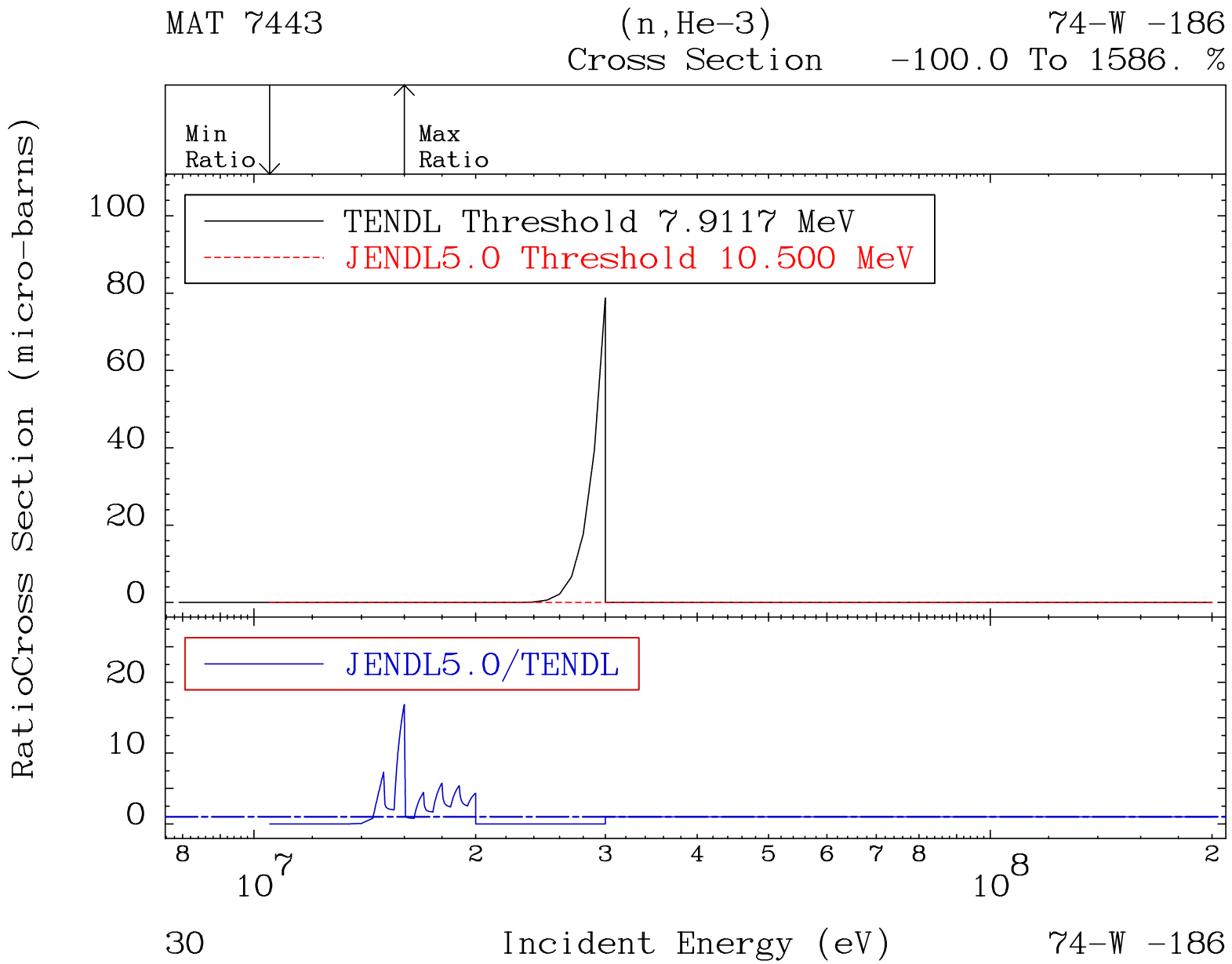

MAT 7443
(n,n') Continuum
Cross Section
74-W -186
-100.0 To 3767. %
Max
Ratio
Min
Ratio
TENDL Threshold 1.3293 MeV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
3.0
2.5
2.0
1.5
1.0
0.5
0.0
60
40
20
0
10^5
10^6
10^7
10^8
Incident Energy (eV)
25
74-W -186

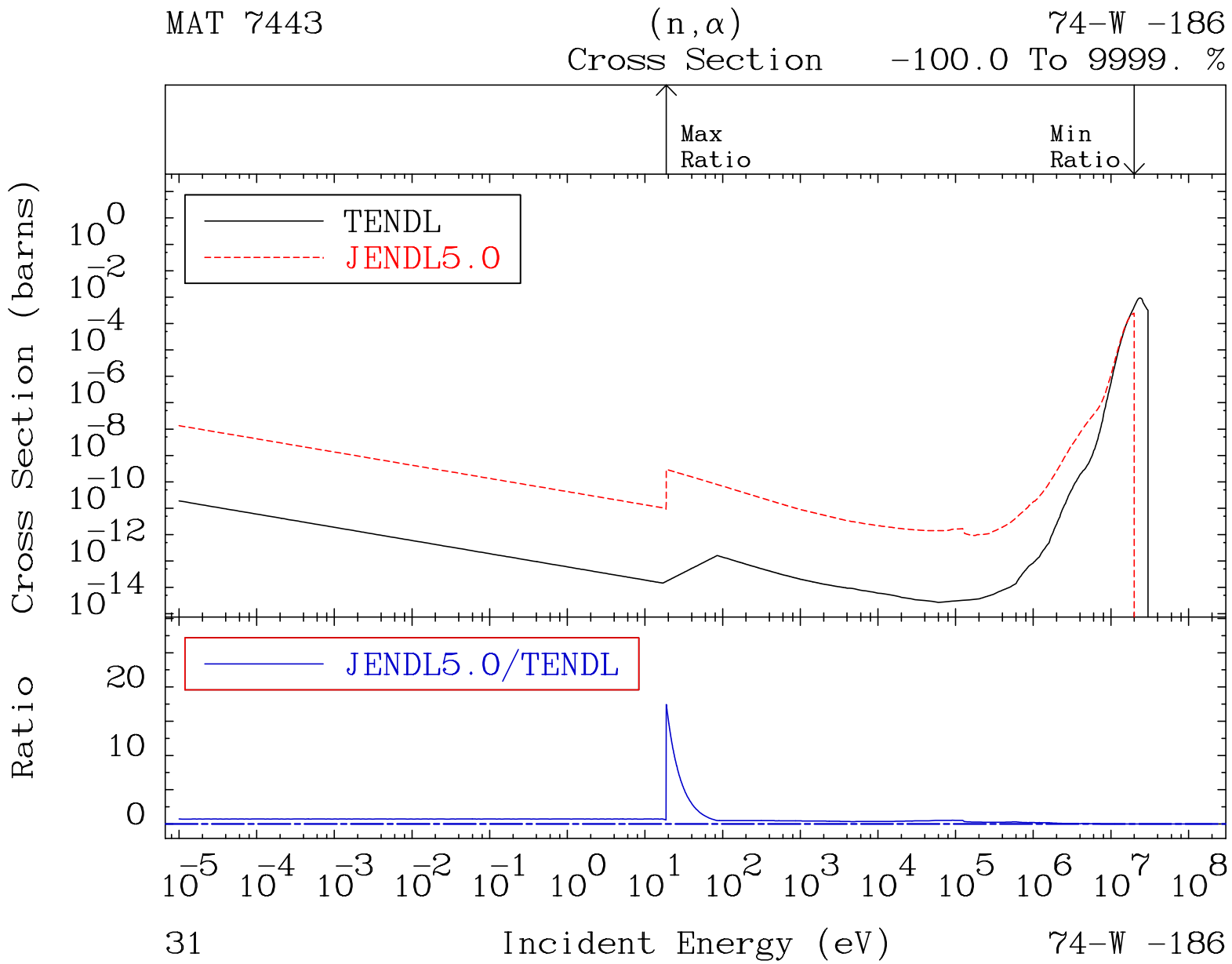

MAT 7443
(n,γ)
Cross Section
74-W -186
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
74-W -186

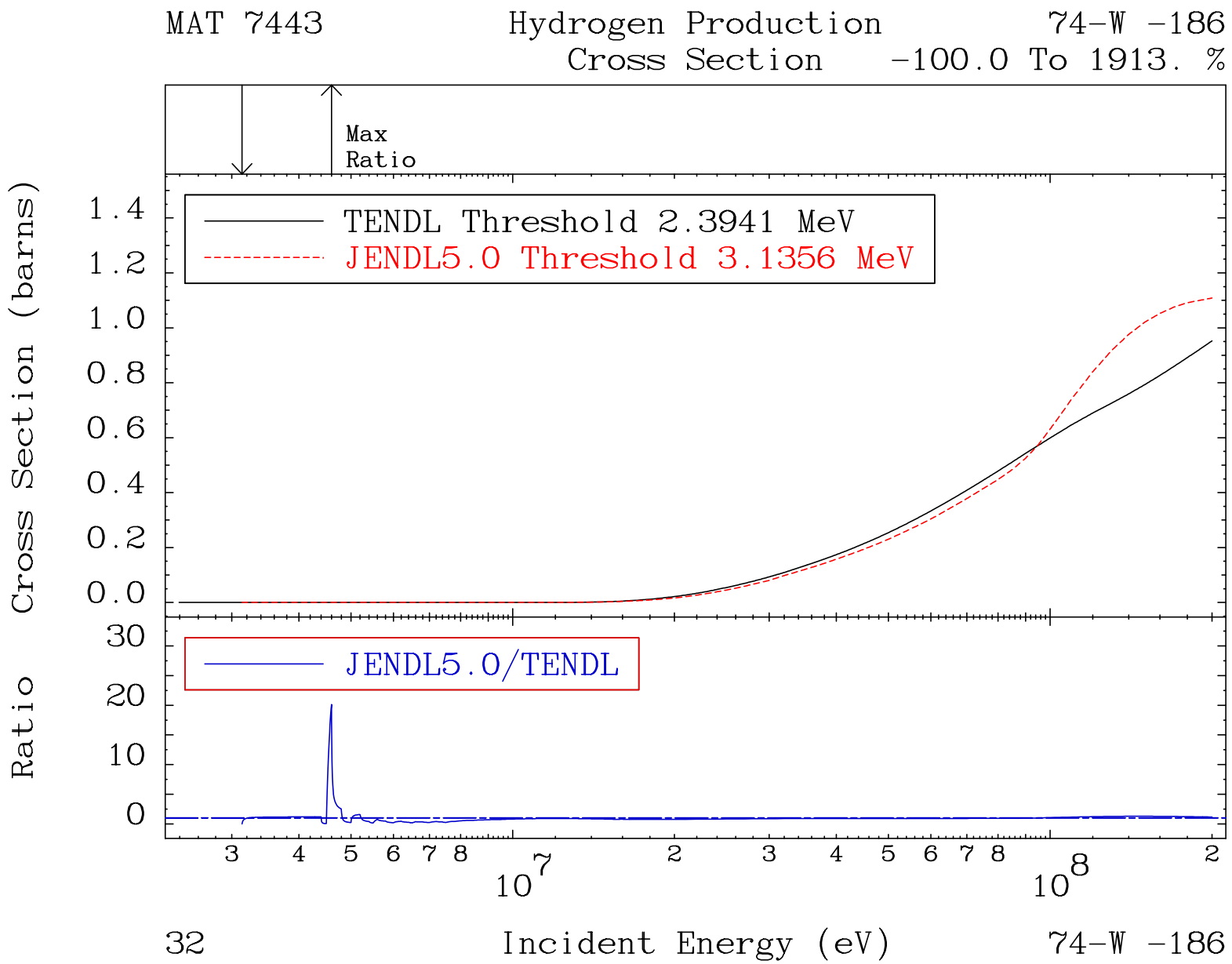

MAT 7443
(n,p)
74-W -186
Cross Section
-100.0 To 1915. %
Max
Ratio
TENDL Threshold 3.1356 MeV
JENDL5.0 Threshold 3.1356 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
30
20
10
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
74-W -186

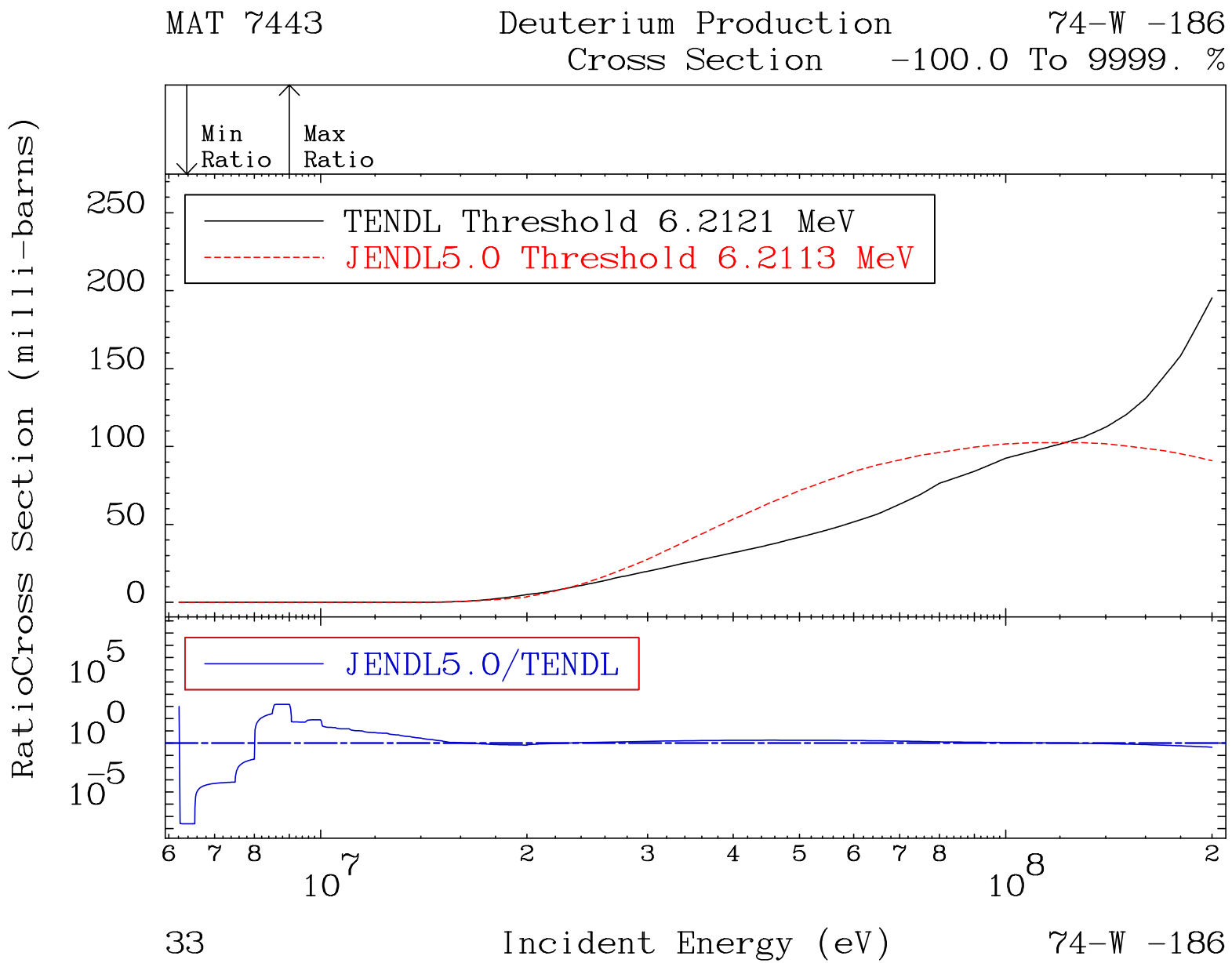

MAT 7443
(n,d)
74-W -186
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2121 MeV
JENDL5.0 Threshold 6.2113 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
74-W -186

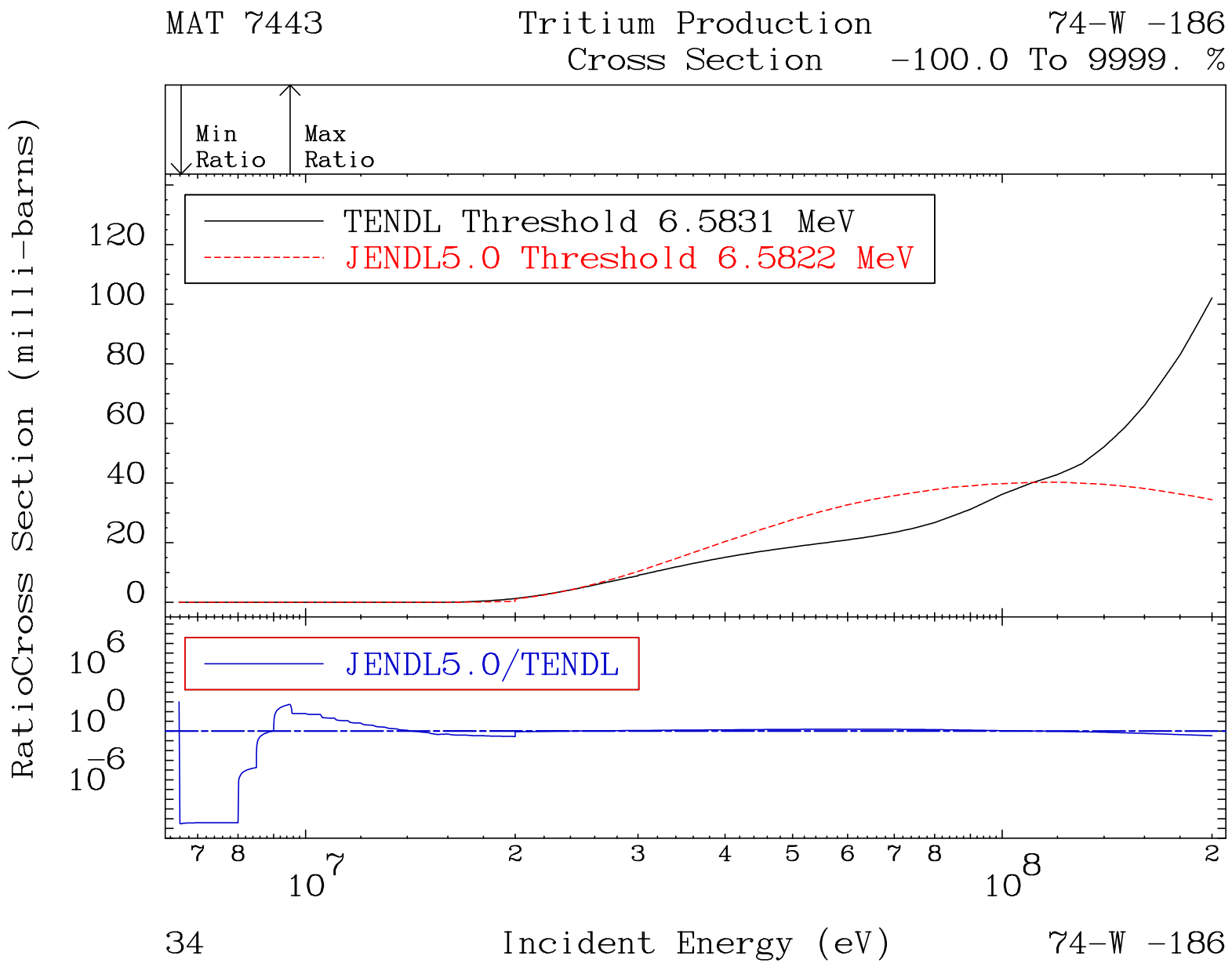

MAT 7443
(n,t)
74-W -186
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.5831 MeV
JENDL5.0 Threshold 6.5822 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
29
74-W -186

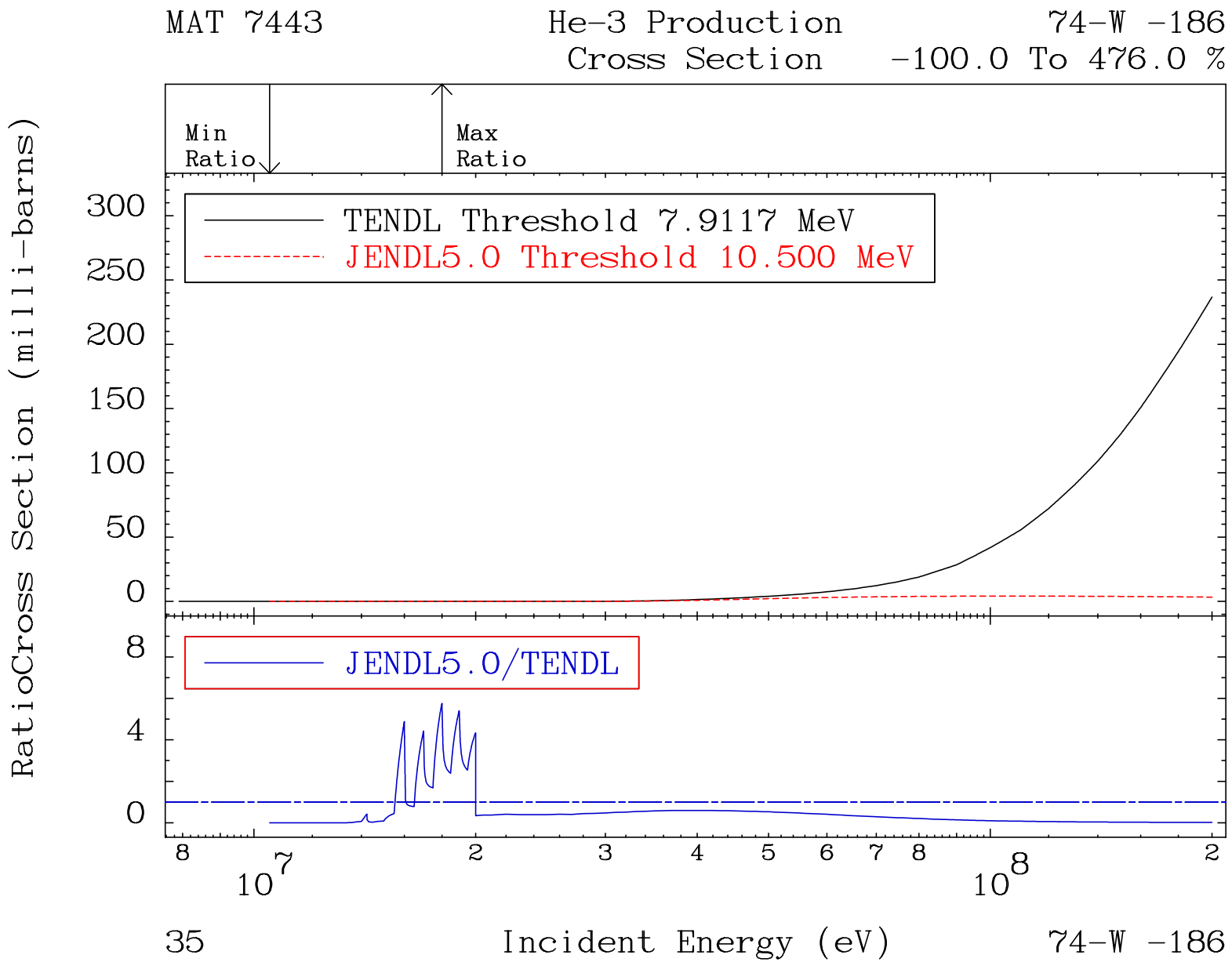

MAT 7443
(n,He-3)
Cross Section
74-W -186
-100.0 To 1586. %
Min Ratio
Max Ratio
TENDL Threshold 7.9117 MeV
JENDL5.0 Threshold 10.500 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
100
80
60
40
20
0
20
10
0
8
2
3
4
5
6
7
8
2
10^7
10^8
30
Incident Energy (eV)
74-W -186

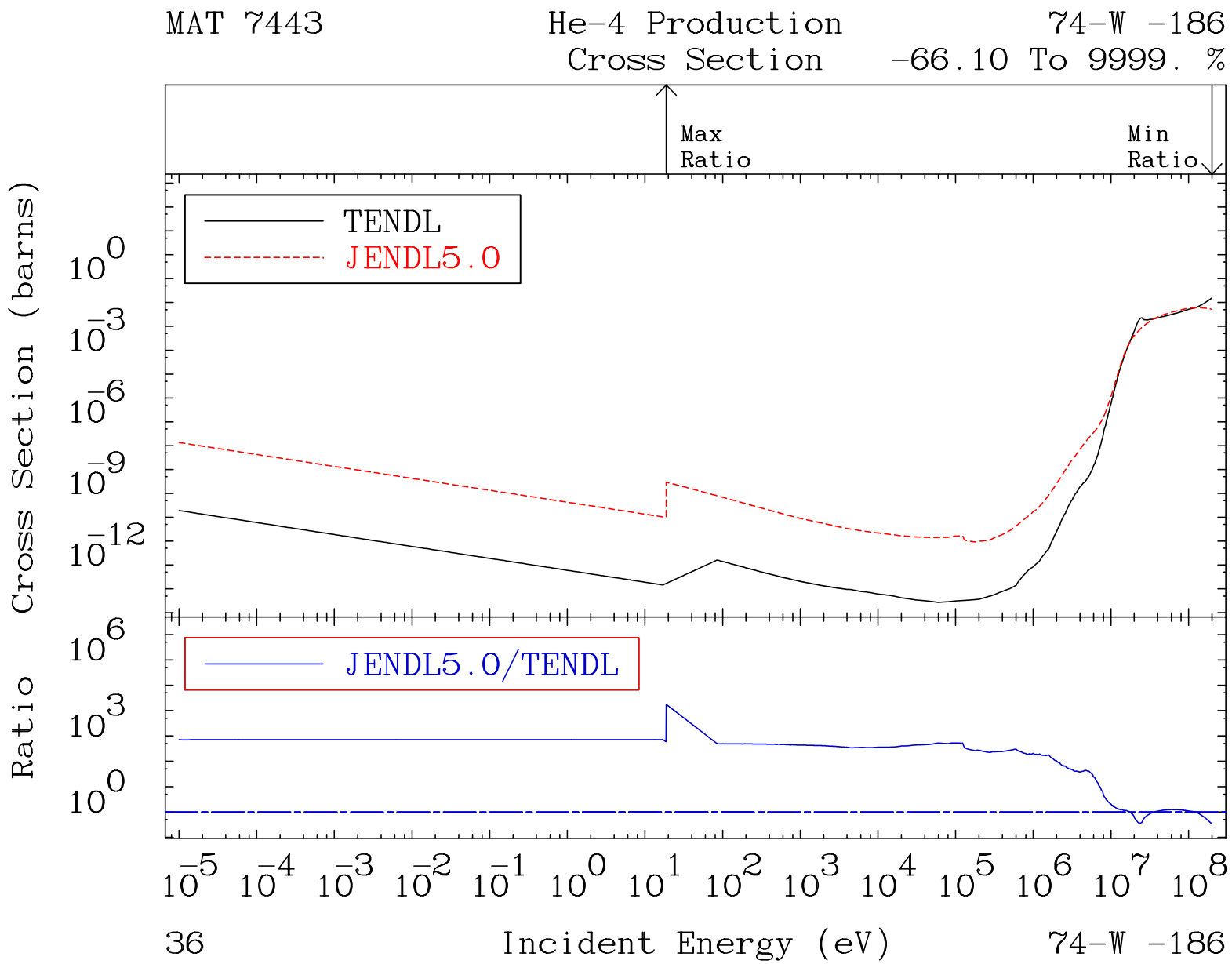

MAT 7443
(n,α)
Cross Section
74-W -186
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
31
74-W -186

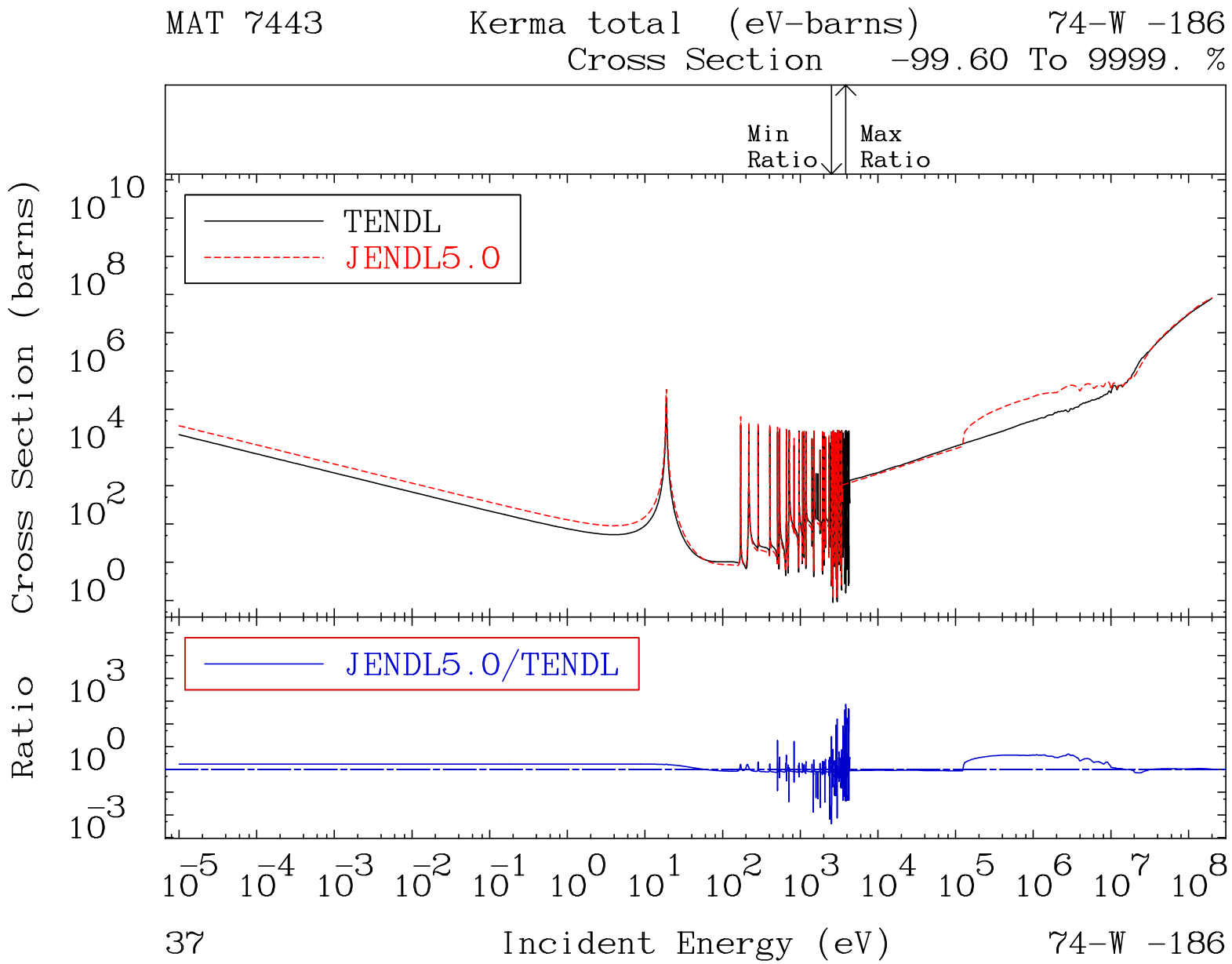

MAT 7443
Hydrogen Production
74-W -186
Cross Section -100.0 To 1913. %
Max
Ratio
TENDL Threshold 2.3941 MeV
JENDL5.0 Threshold 3.1356 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
30
20
10
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
32
Incident Energy (eV)
74-W -186

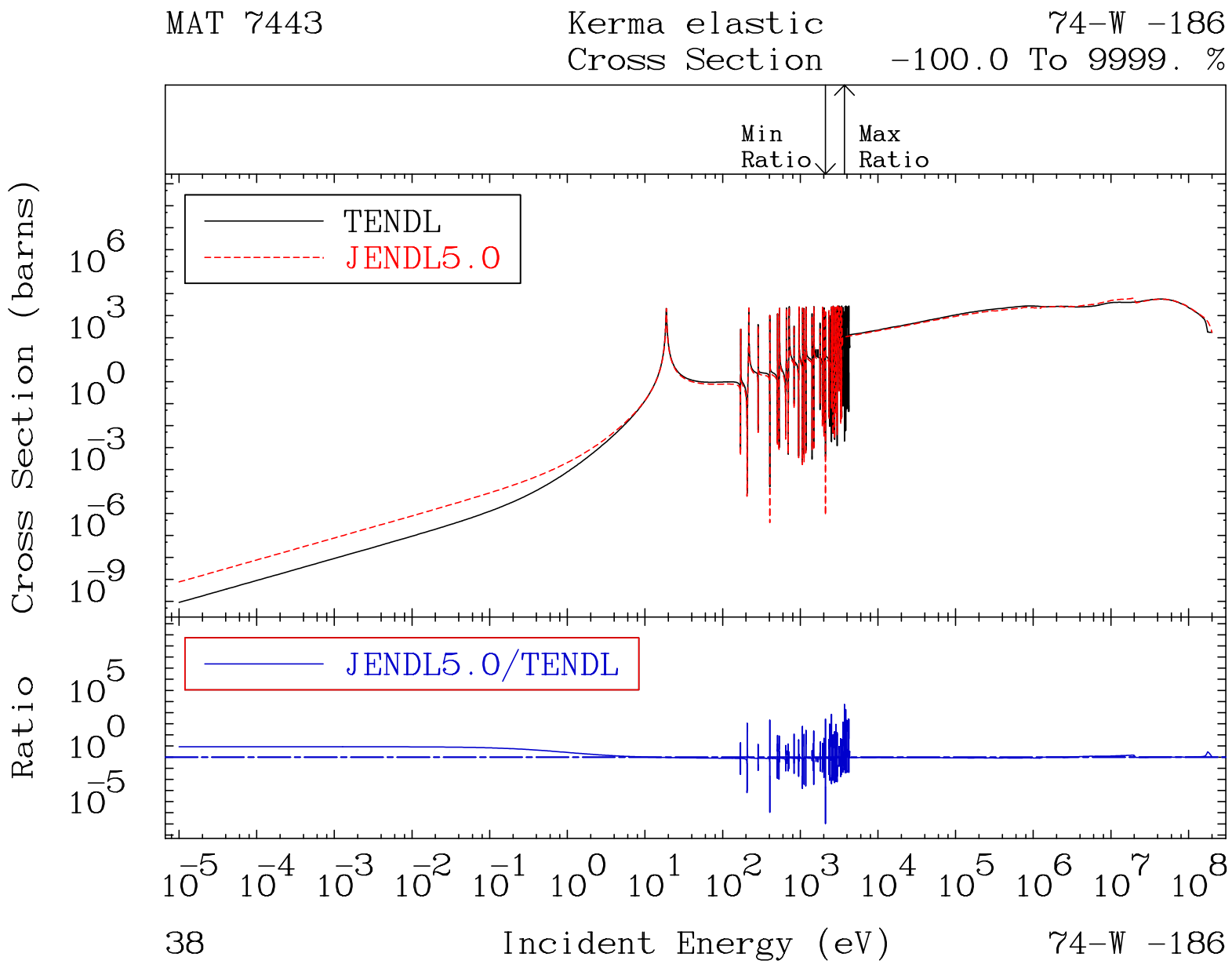

MAT 7443
Deuterium Production
74-W -186
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.2121 MeV
JENDL5.0 Threshold 6.2113 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^5
10^0
10^-5
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
74-W -186

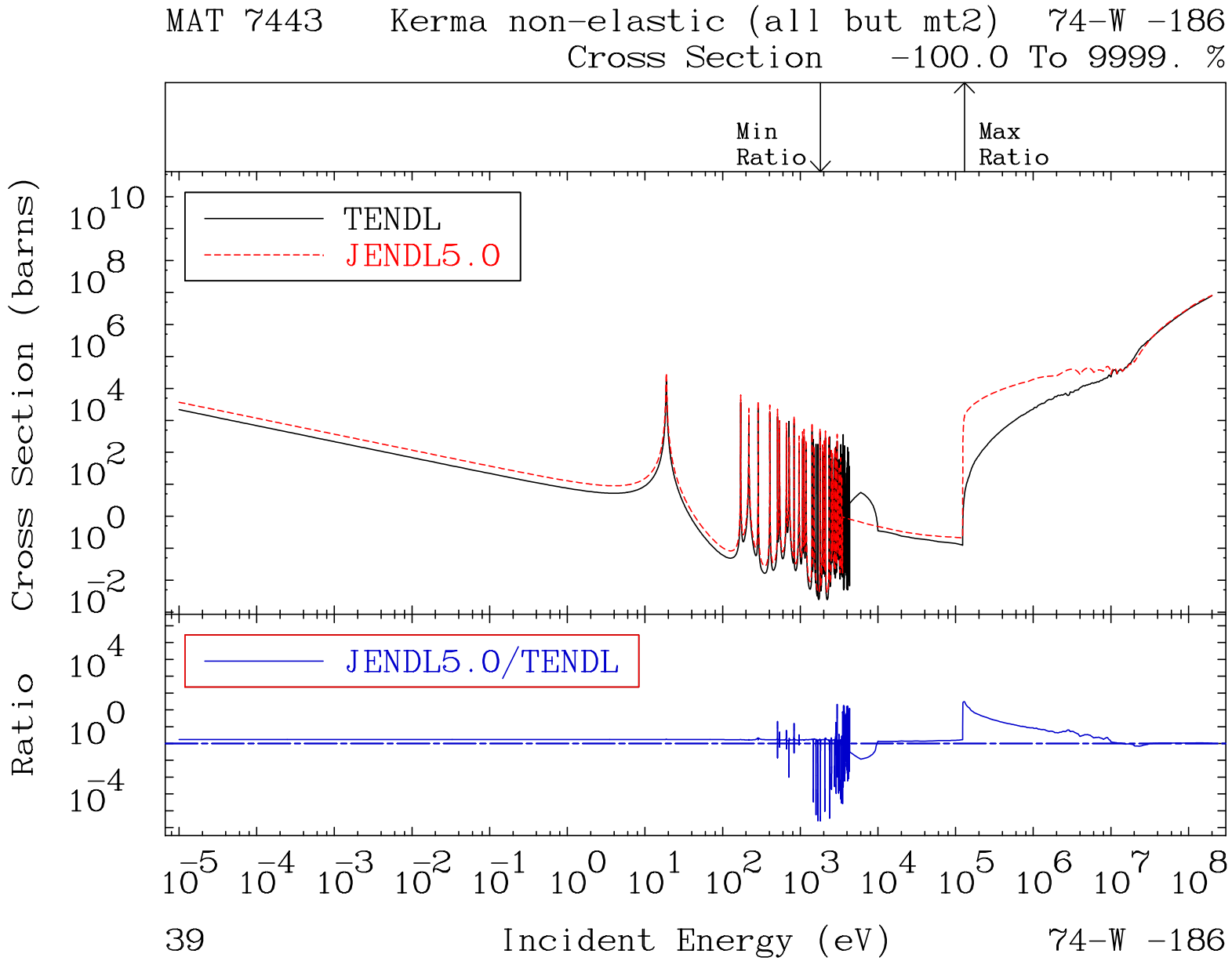

MAT 7443
Tritium Production
74-W -186
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.5831 MeV
JENDL5.0 Threshold 6.5822 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^6
10^0
10^-6
7 8 10^7 2 3 4 5 6 7 8 10^8 2
34
Incident Energy (eV)
74-W -186

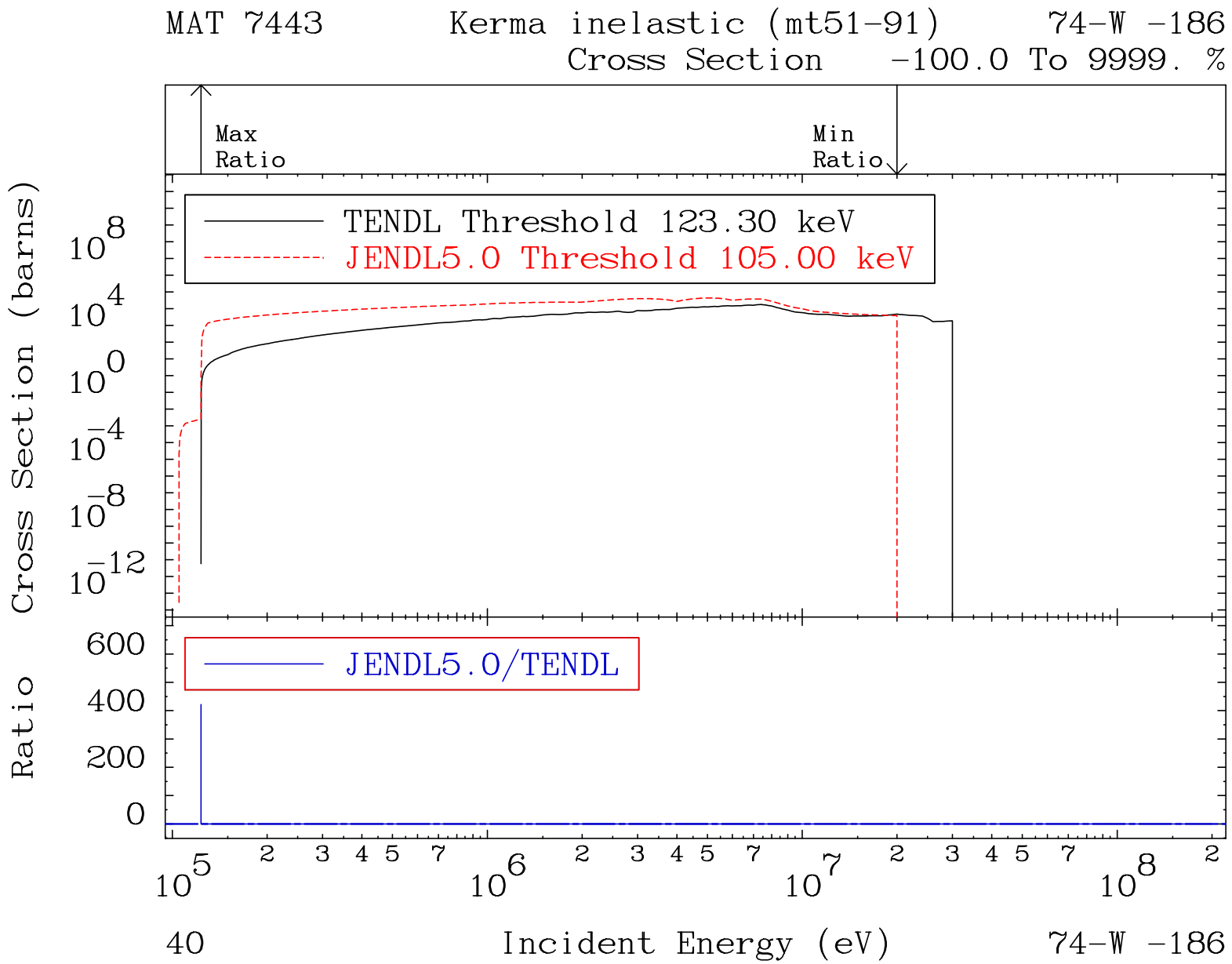

MAT 7443
He-3 Production
Cross Section
74-W -186
-100.0 To 476.0 %
Min Ratio
Max Ratio
TENDL Threshold 7.9117 MeV
JENDL5.0 Threshold 10.500 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
8
4
0
8
2
3
4
5
6
7
8
2
10^7
10^8
35
Incident Energy (eV)
74-W -186

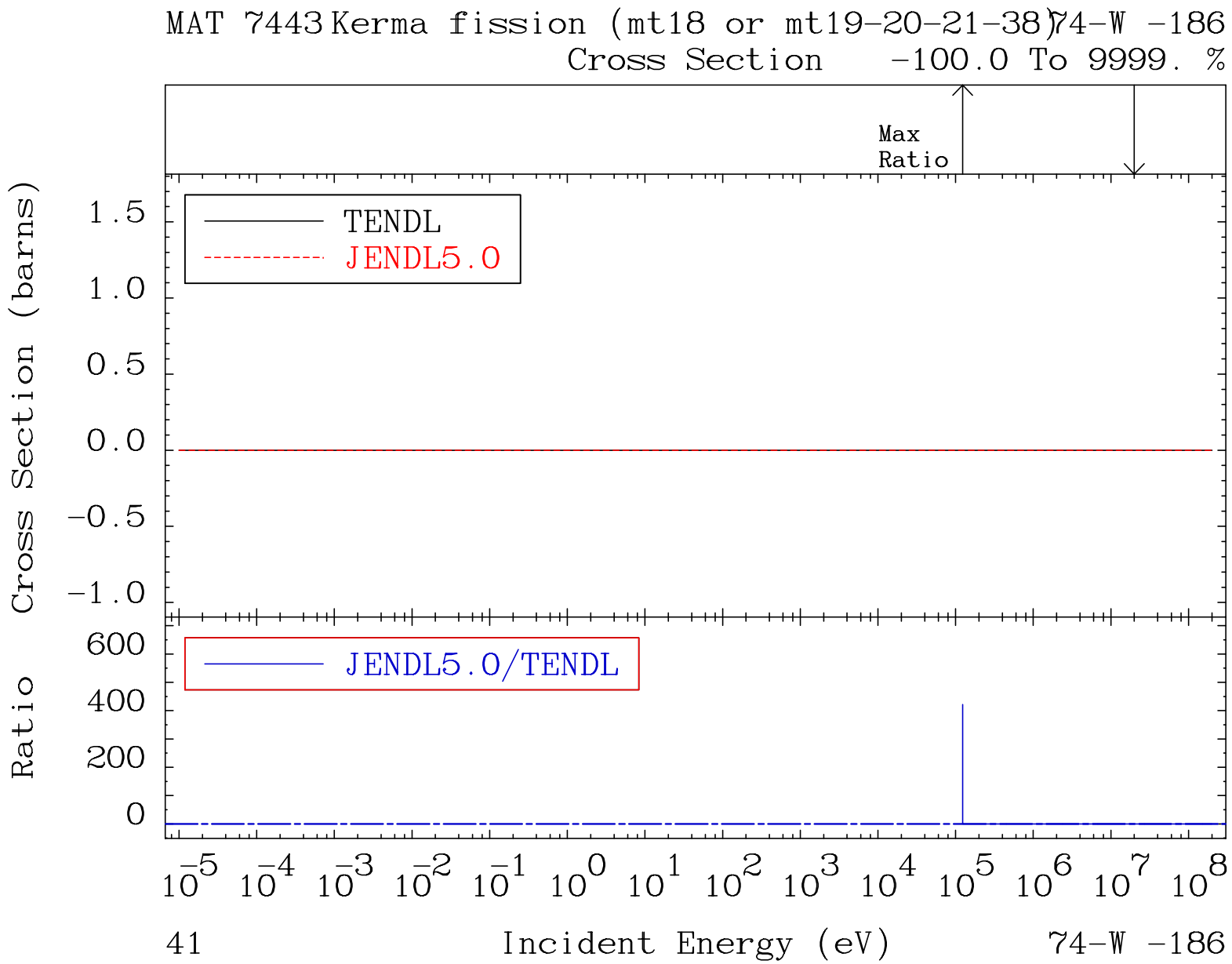

MAT 7443
He-4 Production
Cross Section
74-W -186
-66.10 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
74-W -186

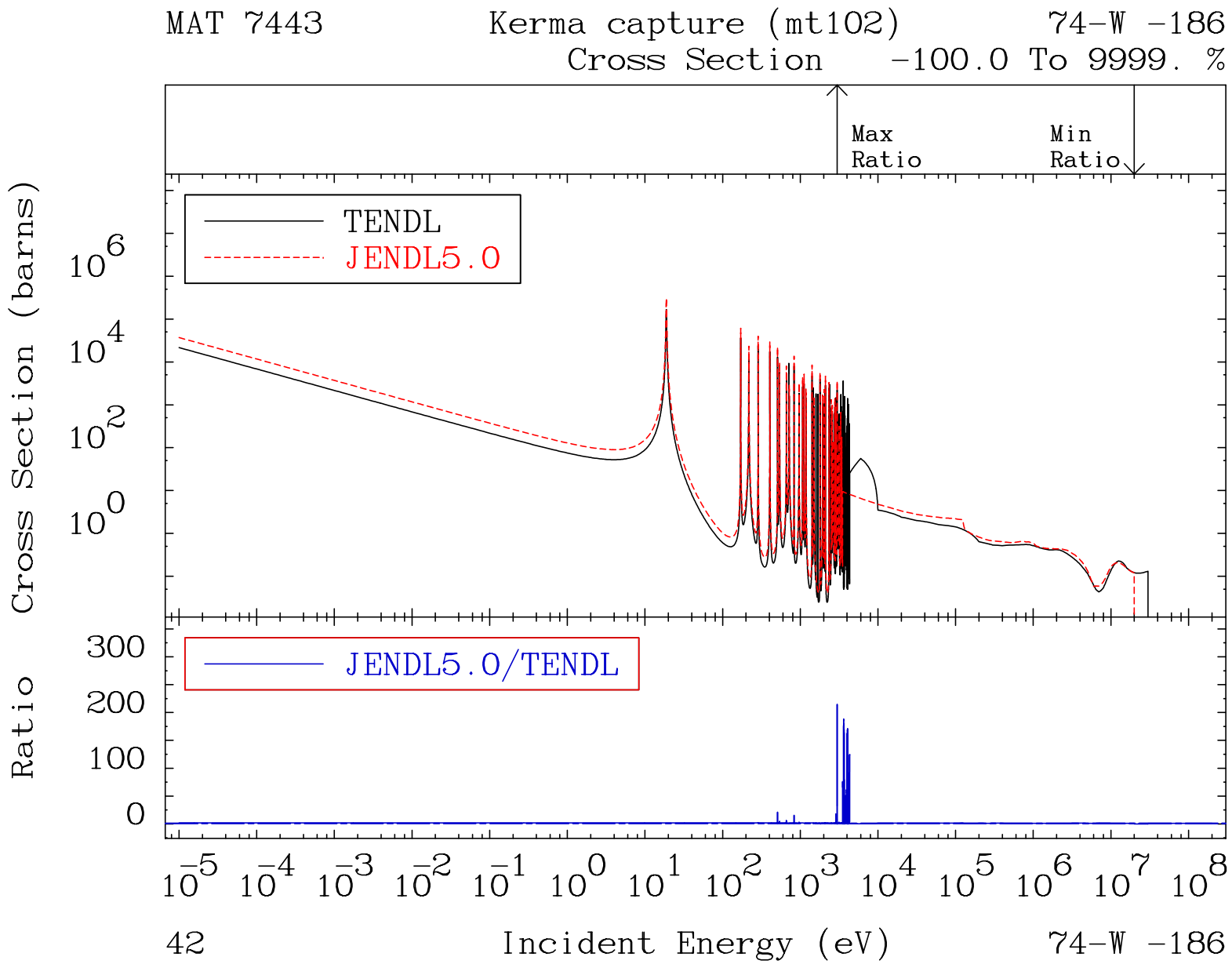

MAT 7443
Kerma total (eV-barns)
74-W -186
Cross Section -99.60 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
74-W -186

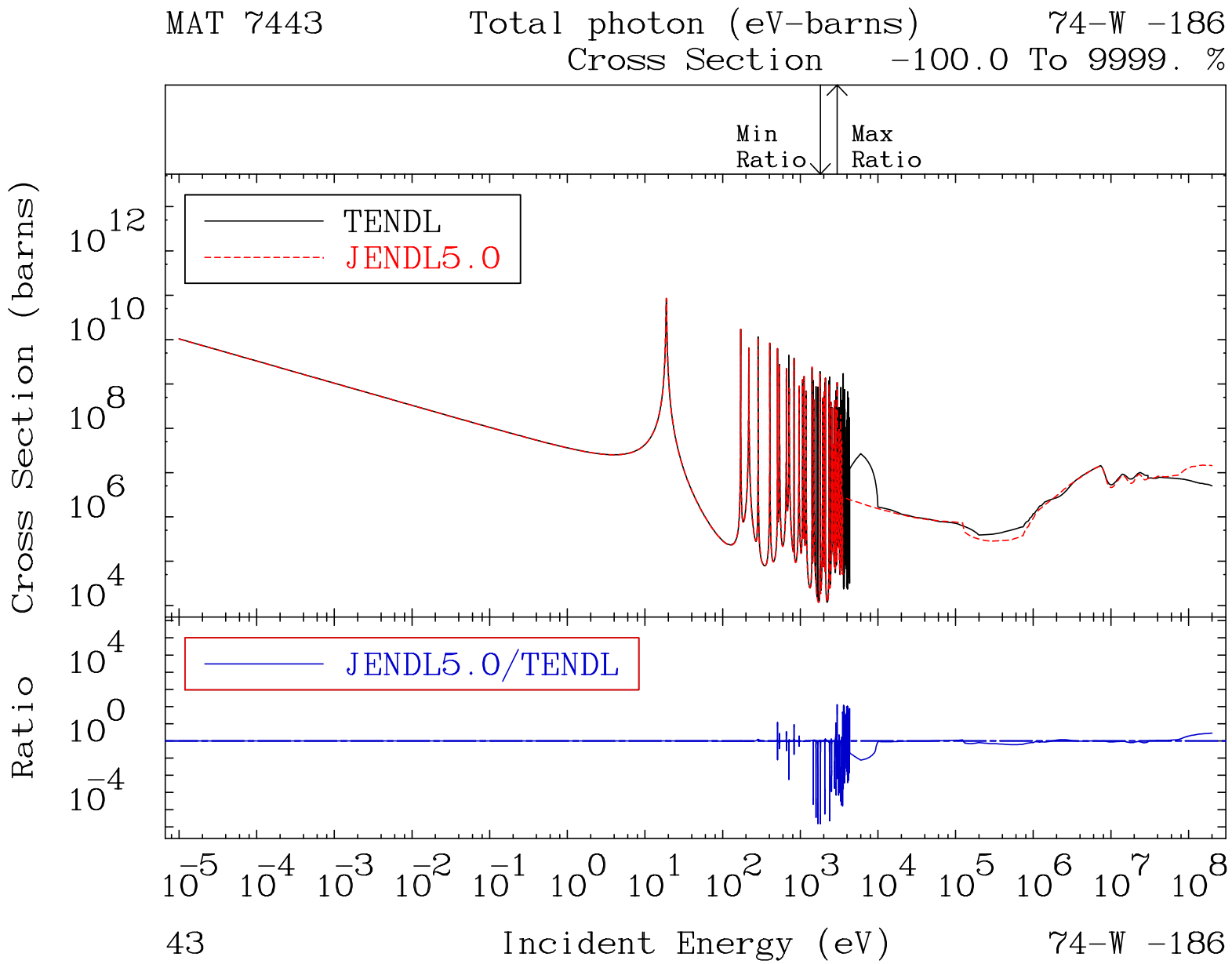

MAT 7443
Kerma elastic
Cross Section
74-W -186
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
74-W -186

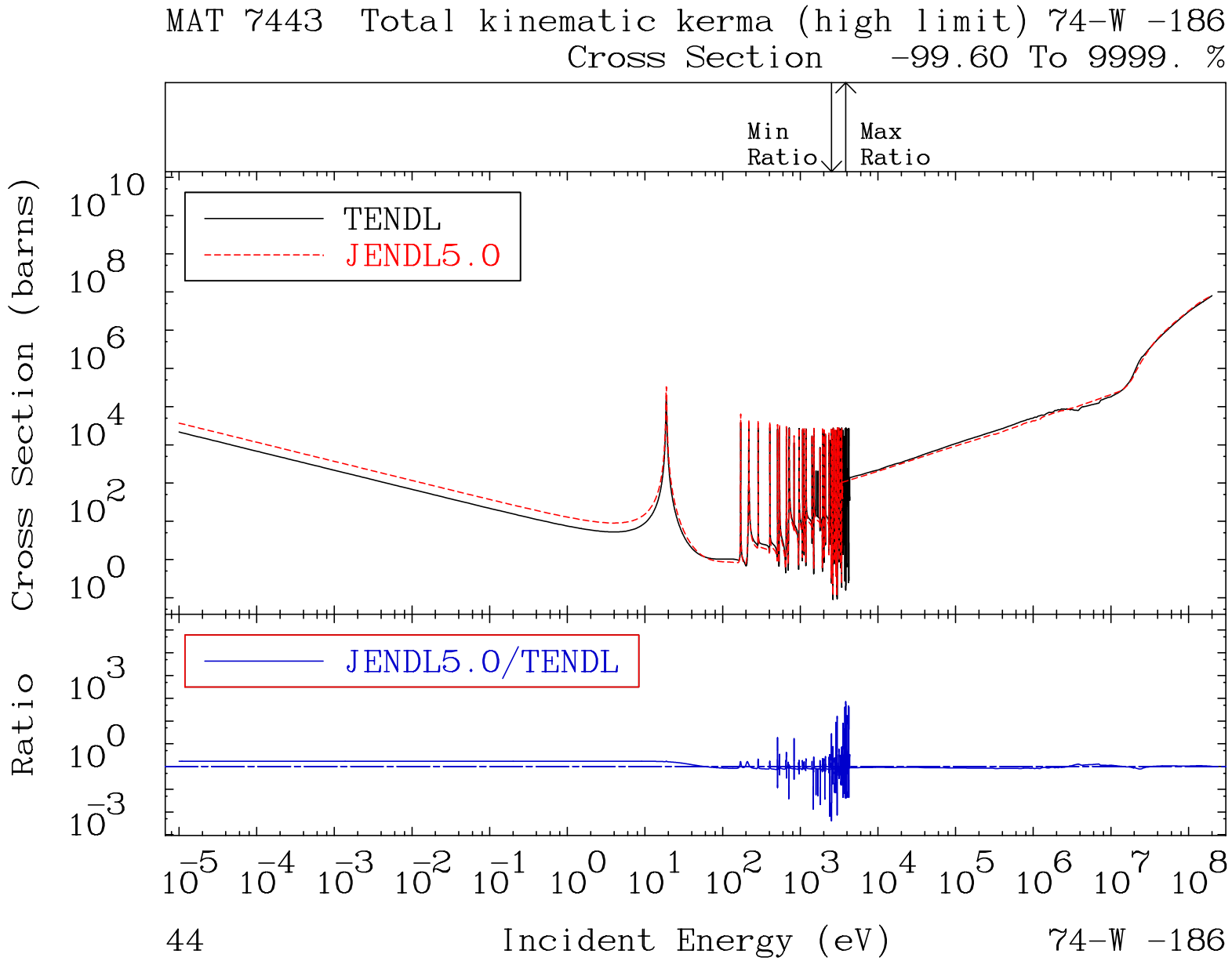

MAT 7443 Kerma non-elastic (all but mt2) 74-W -186
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
39
74-W -186

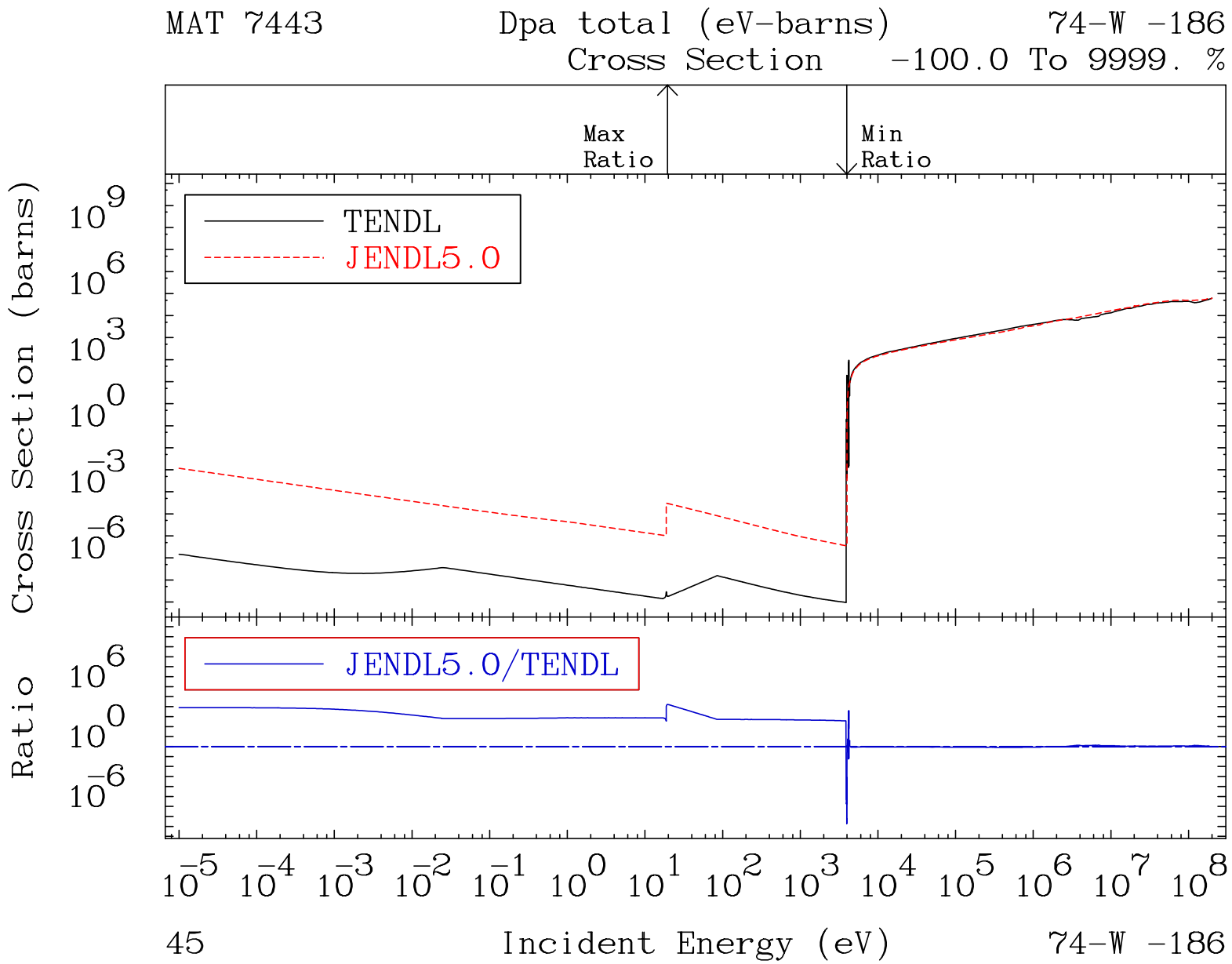

MAT 7443
Kerma inelastic (mt51-91)
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 123.30 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
40
74-W -186

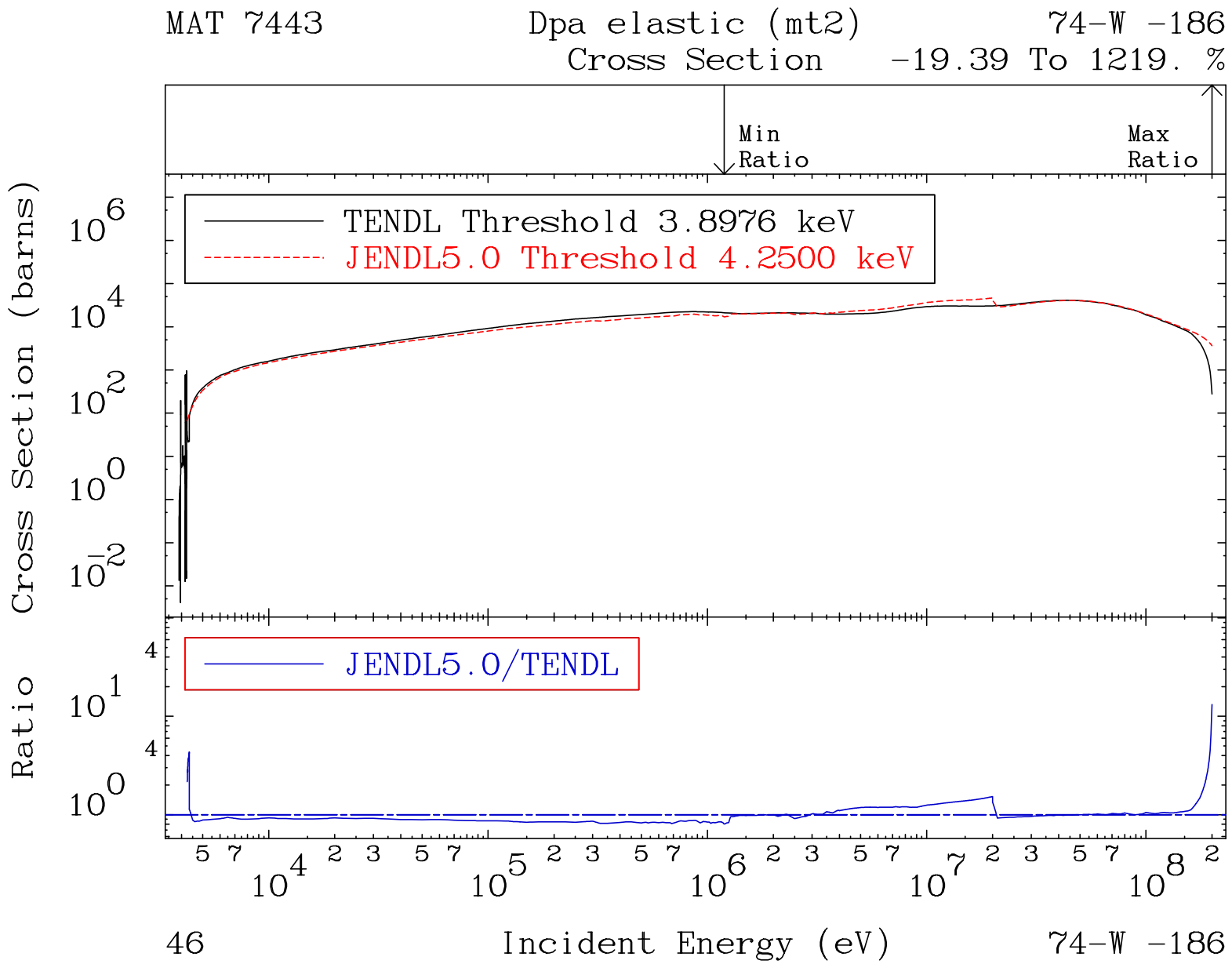

MAT 7443 Kerma fission (mt18 or mt19-20-21-38) 74-W -186
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
600
400
200
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
41
Incident Energy (eV)
74-W -186

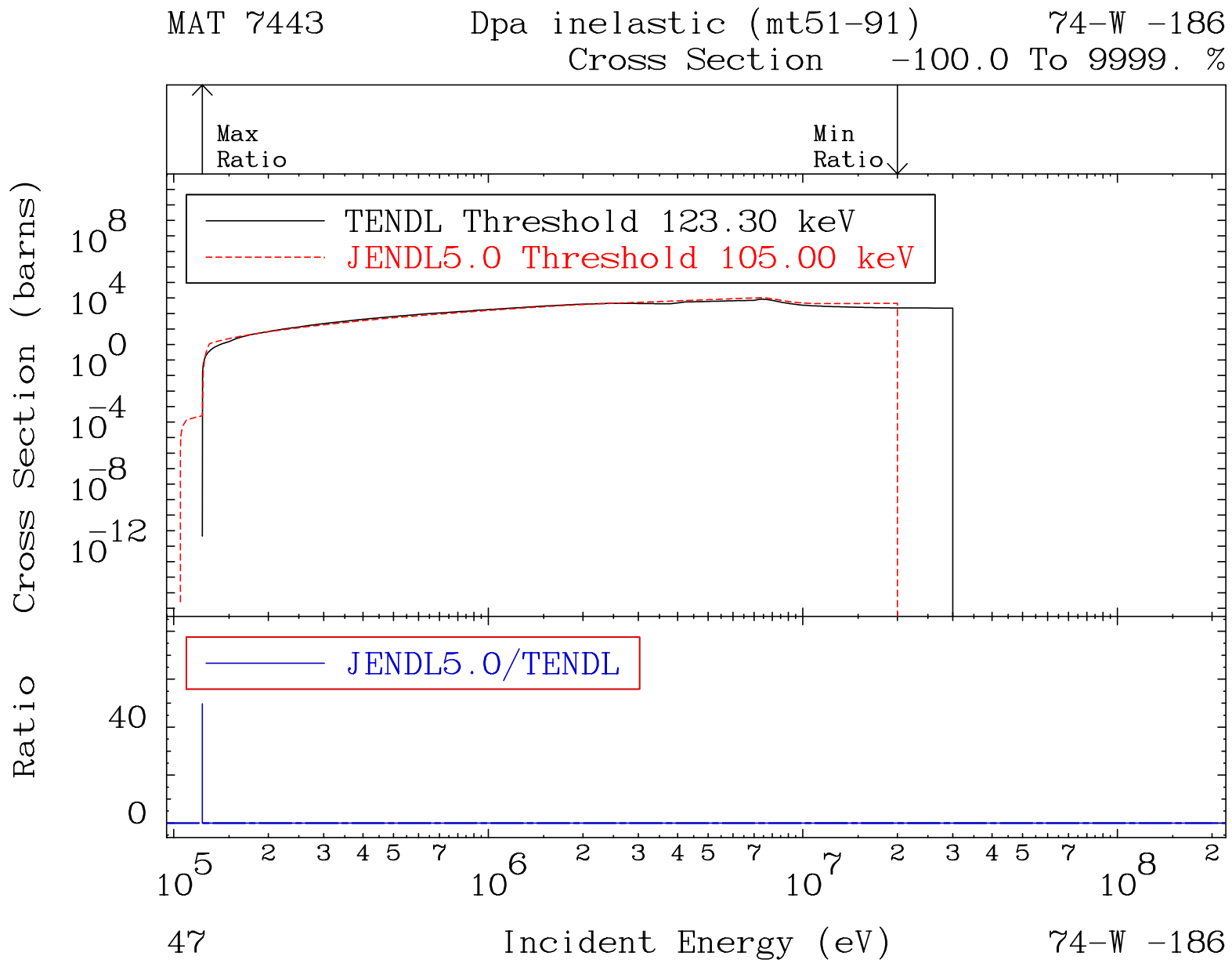

MAT 7443
Kerma capture (mt102)
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
42
74-W -186

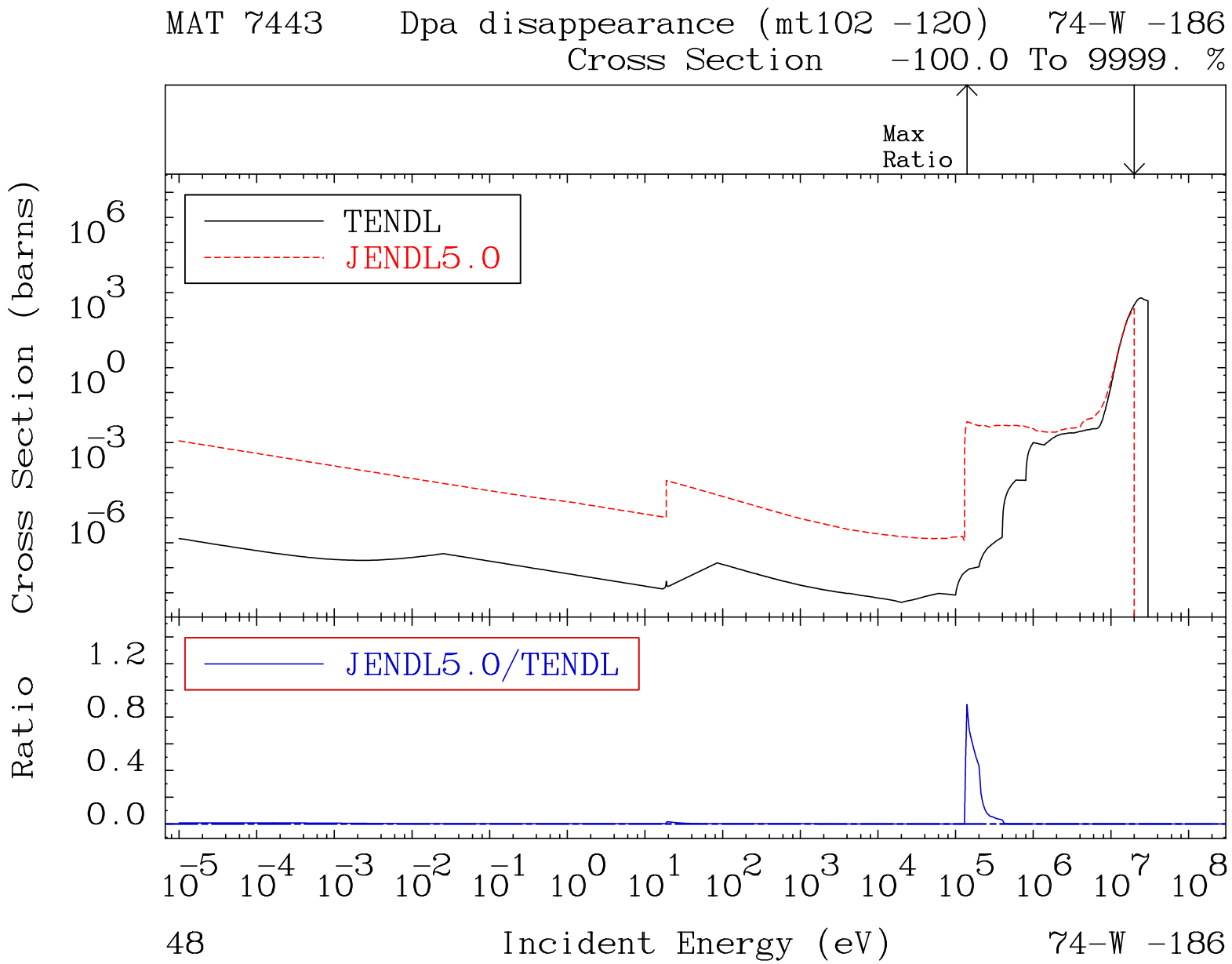

MAT 7443
Total photon (eV-barns)
74-W -186
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
74-W -186

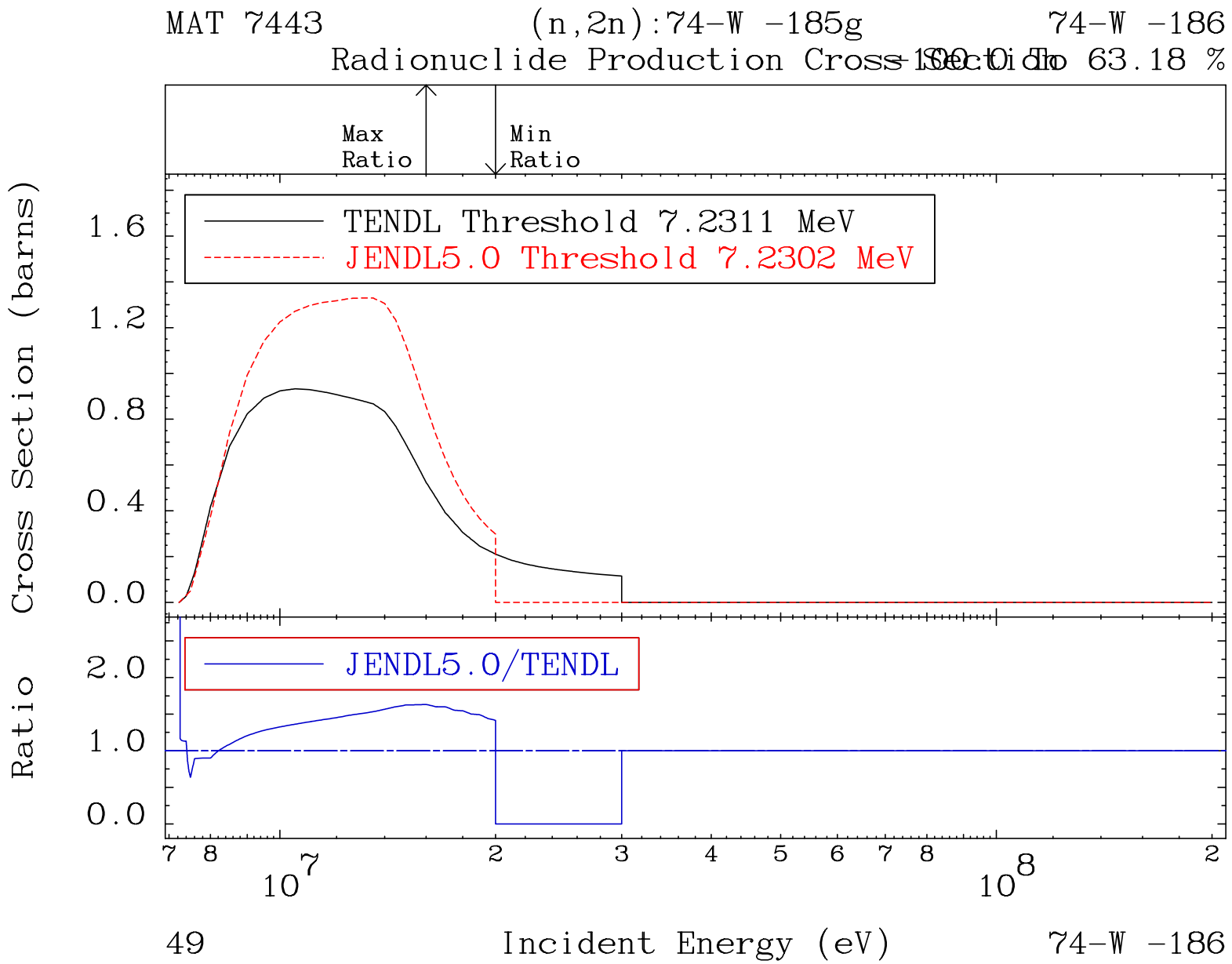

MAT 7443 Total kinematic kerma (high limit) 74-W -186
Cross Section -99.60 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
74-W -186

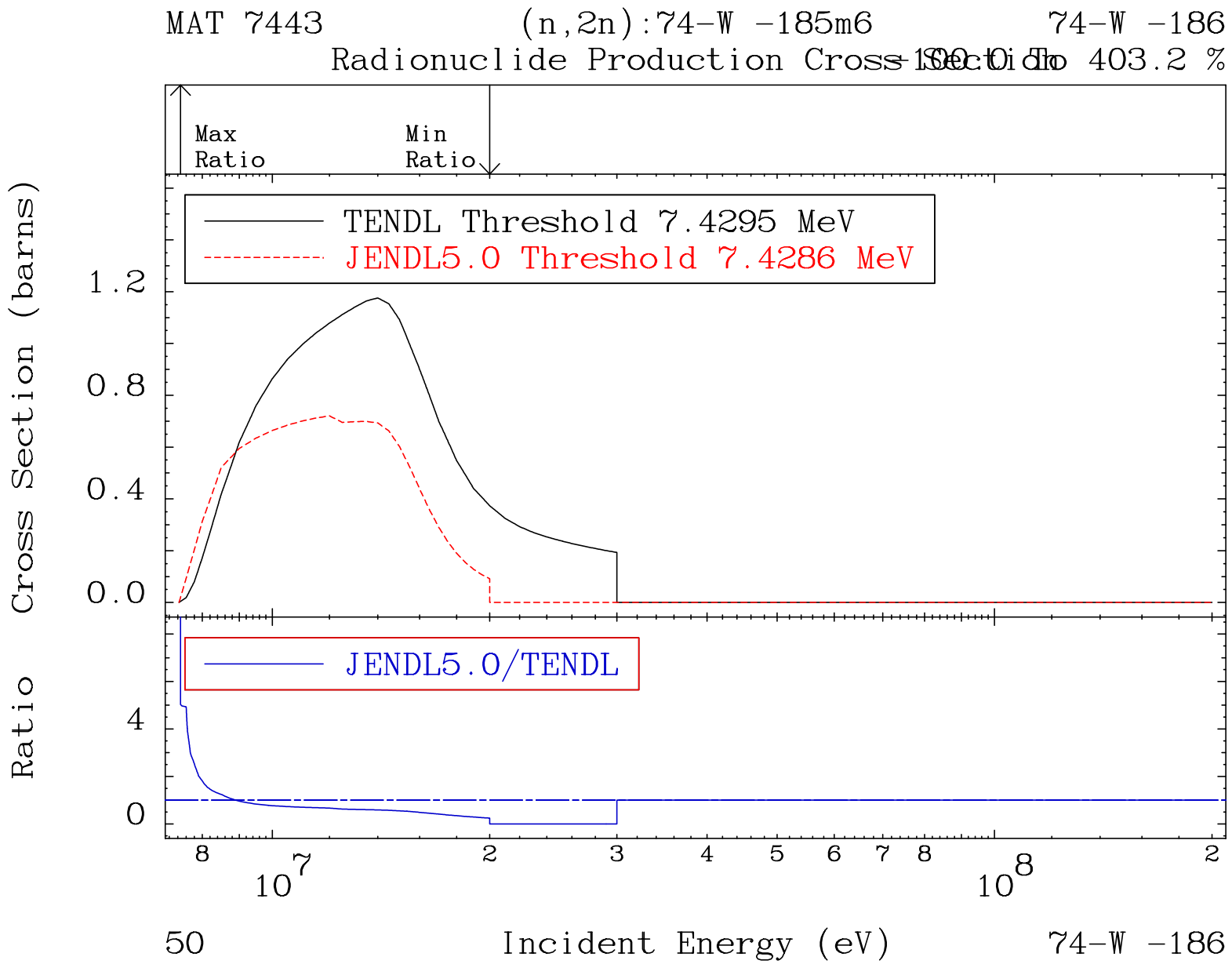

MAT 7443
Dpa total (eV-barns)
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
74-W -186

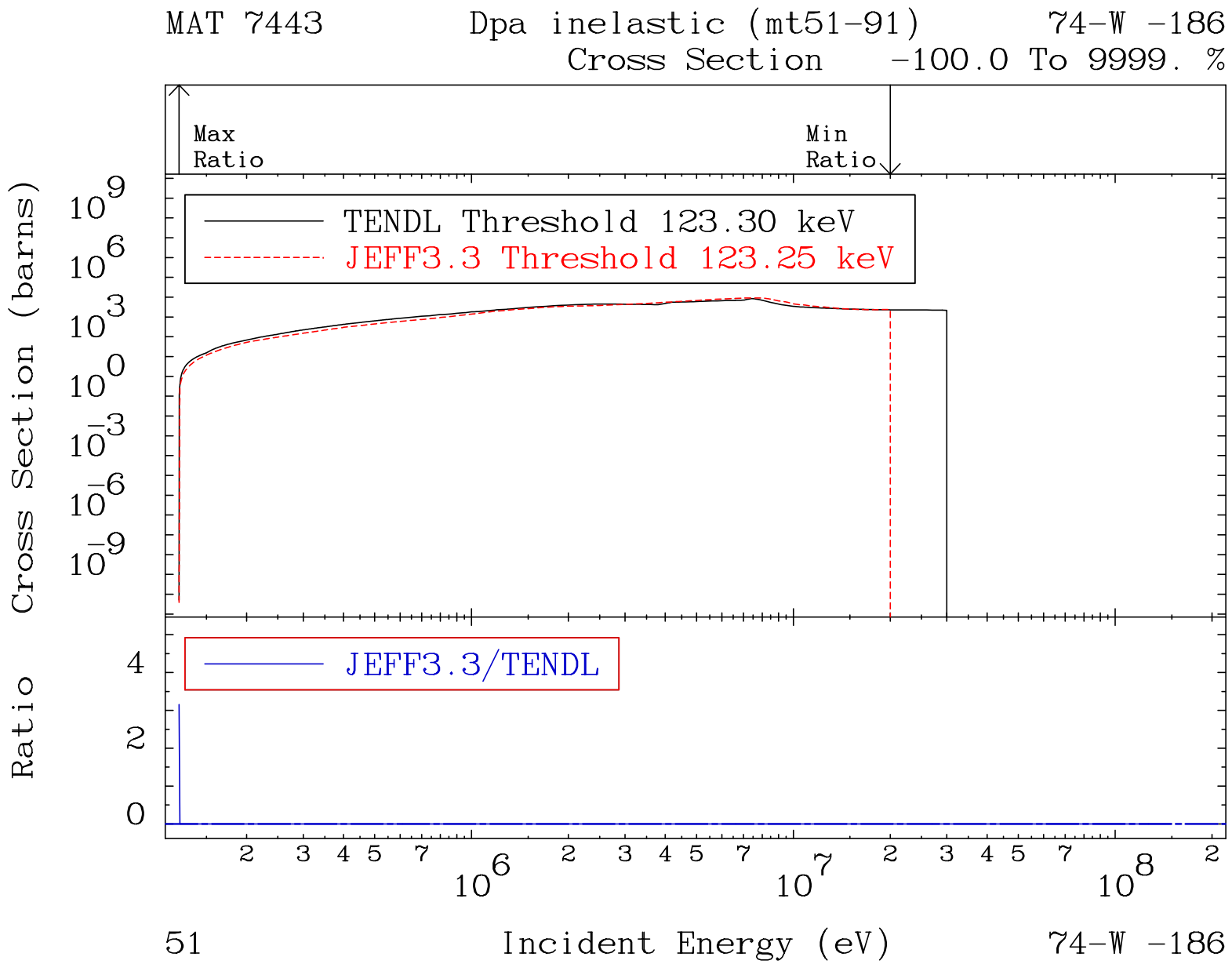

MAT 7443
Dpa elastic (mt2)
Cross Section
74-W -186
-19.39 To 1219. %
Min Ratio
Max Ratio
TENDL Threshold 3.8976 keV
JENDL5.0 Threshold 4.2500 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
74-W -186

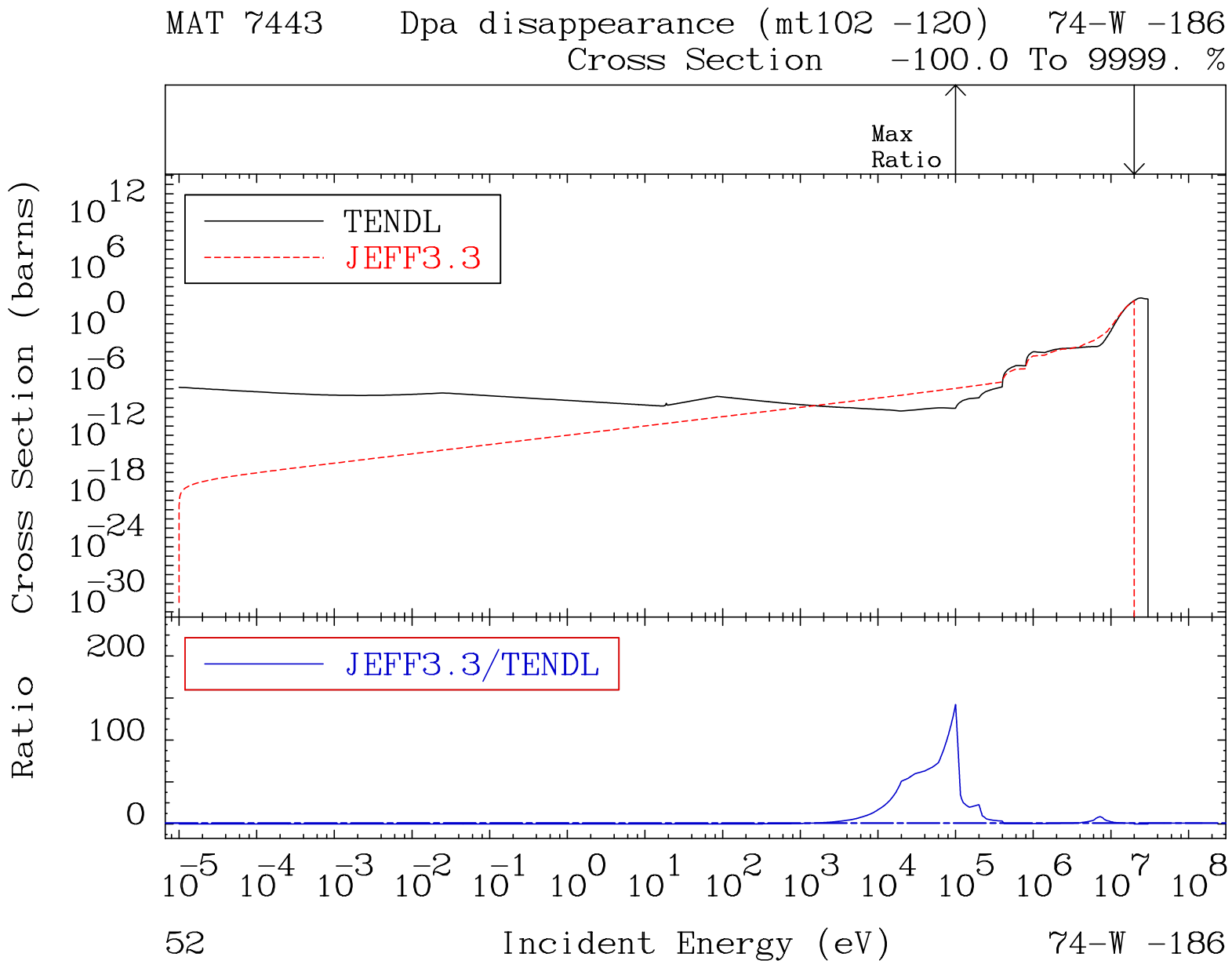

MAT 7443
Dpa inelastic (mt51-91)
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 123.30 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
74-W -186


MAT 7443 Dpa disappearance (mt102 -120) 74-W -186
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
JENDL5.0/TENDL
Ratio
1.2
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
48
Incident Energy (eV)
74-W -186


MAT 7443
(n,2n):74-W -185g
74-W -186
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.2311 MeV
JENDL5.0 Threshold 7.2302 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
74-W -186


MAT 7443
(n,2n):74-W -185m6
74-W -186
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.4295 MeV
JENDL5.0 Threshold 7.4286 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
0.8
0.4
0.0
4
0
8
2
3
4
5
6
7
8
2
10^7
10^8
50
Incident Energy (eV)
74-W -186


MAT 7443
Dpa inelastic (mt51-91)
74-W -186
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 123.30 keV
JEFF3.3 Threshold 123.25 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
74-W -186


MAT 7443 Dpa disappearance (mt102 -120) 74-W -186
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
74-W -186