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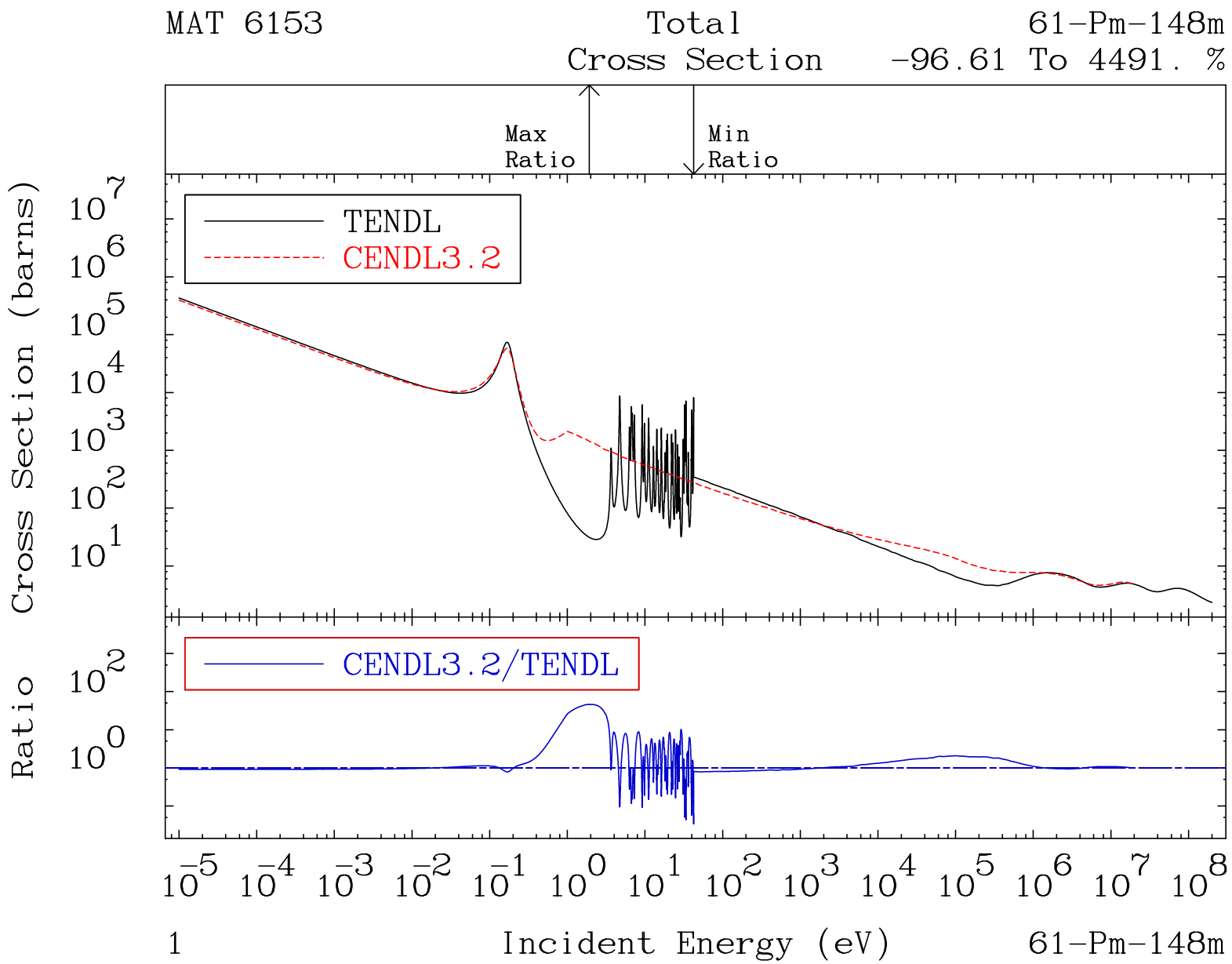
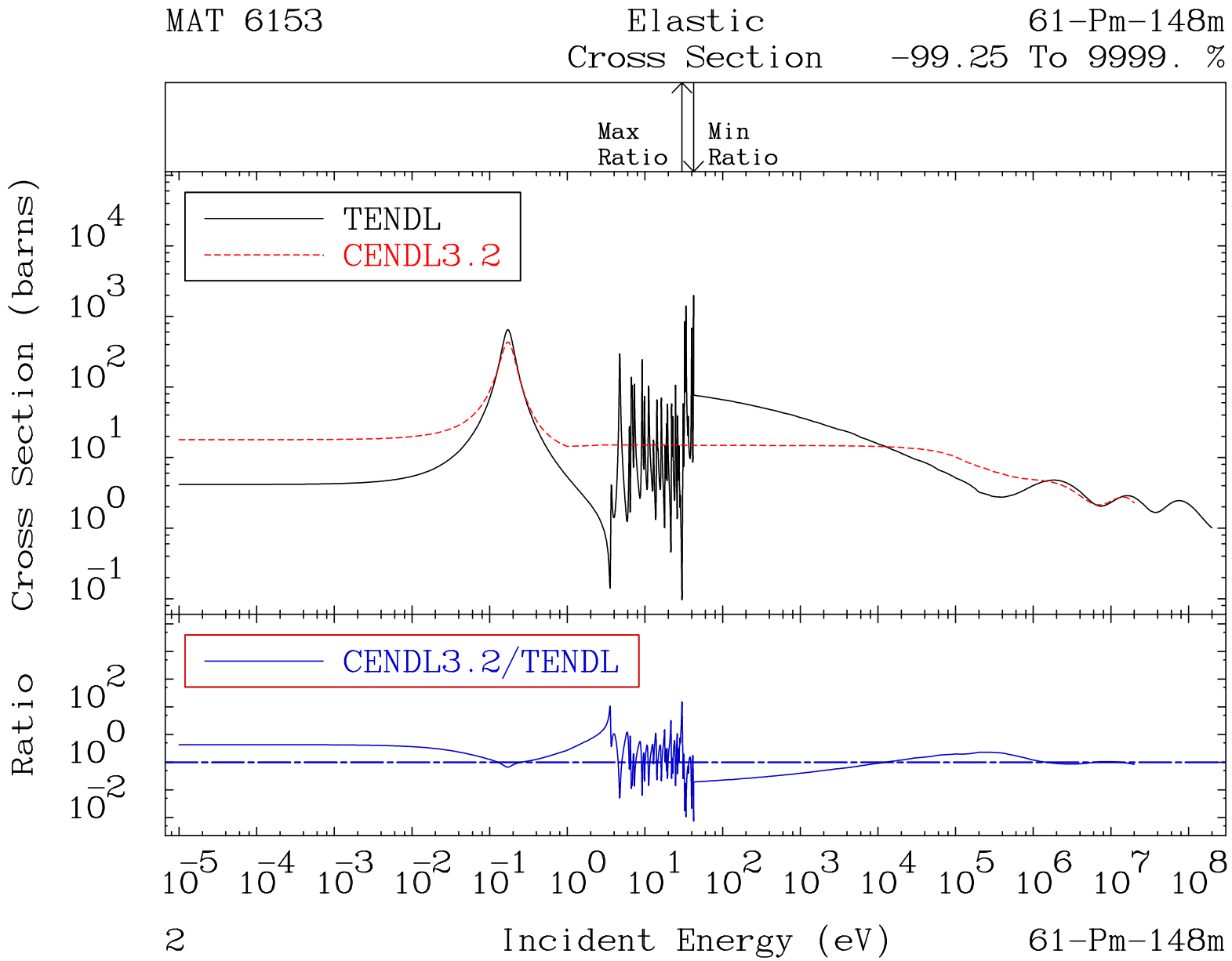
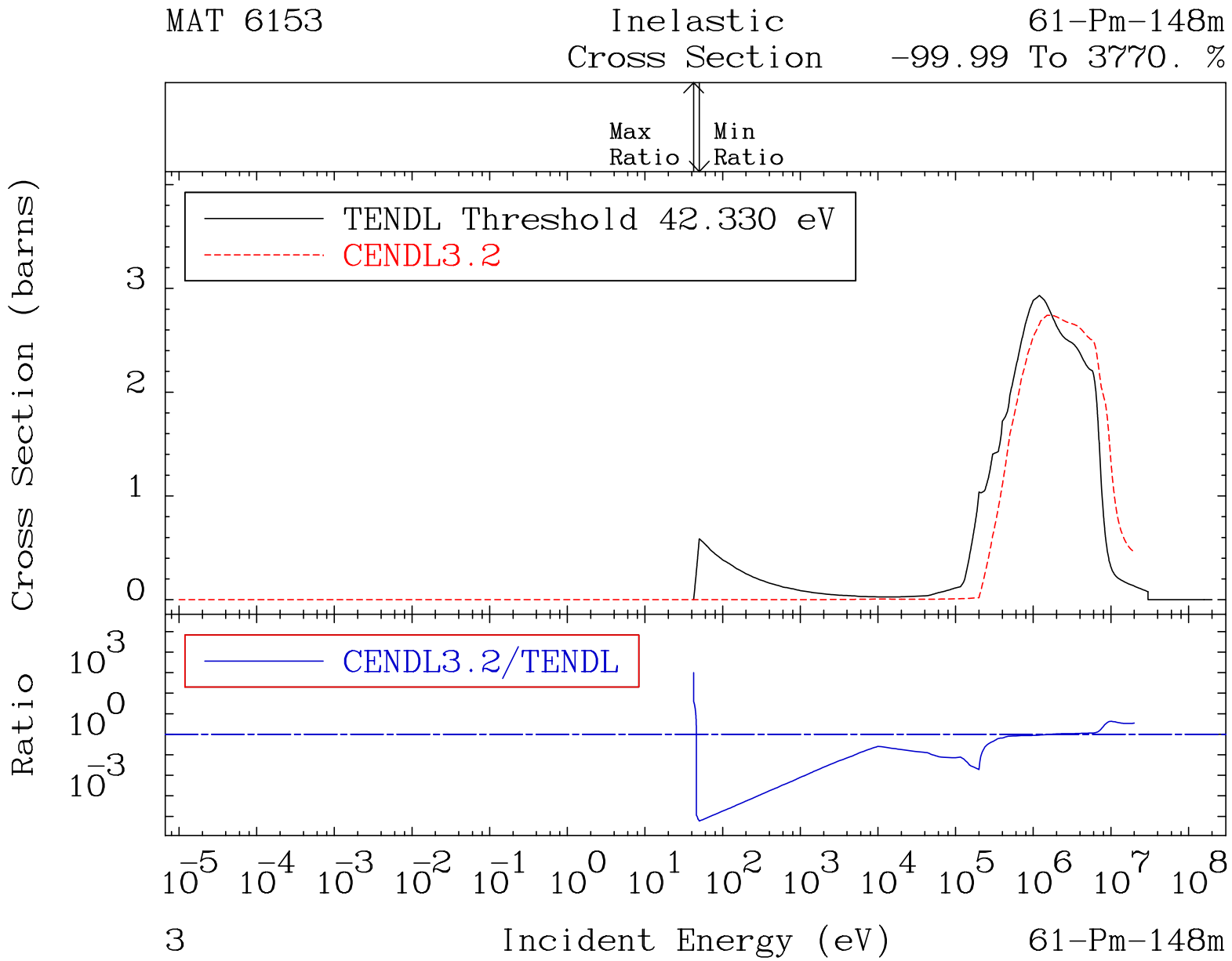
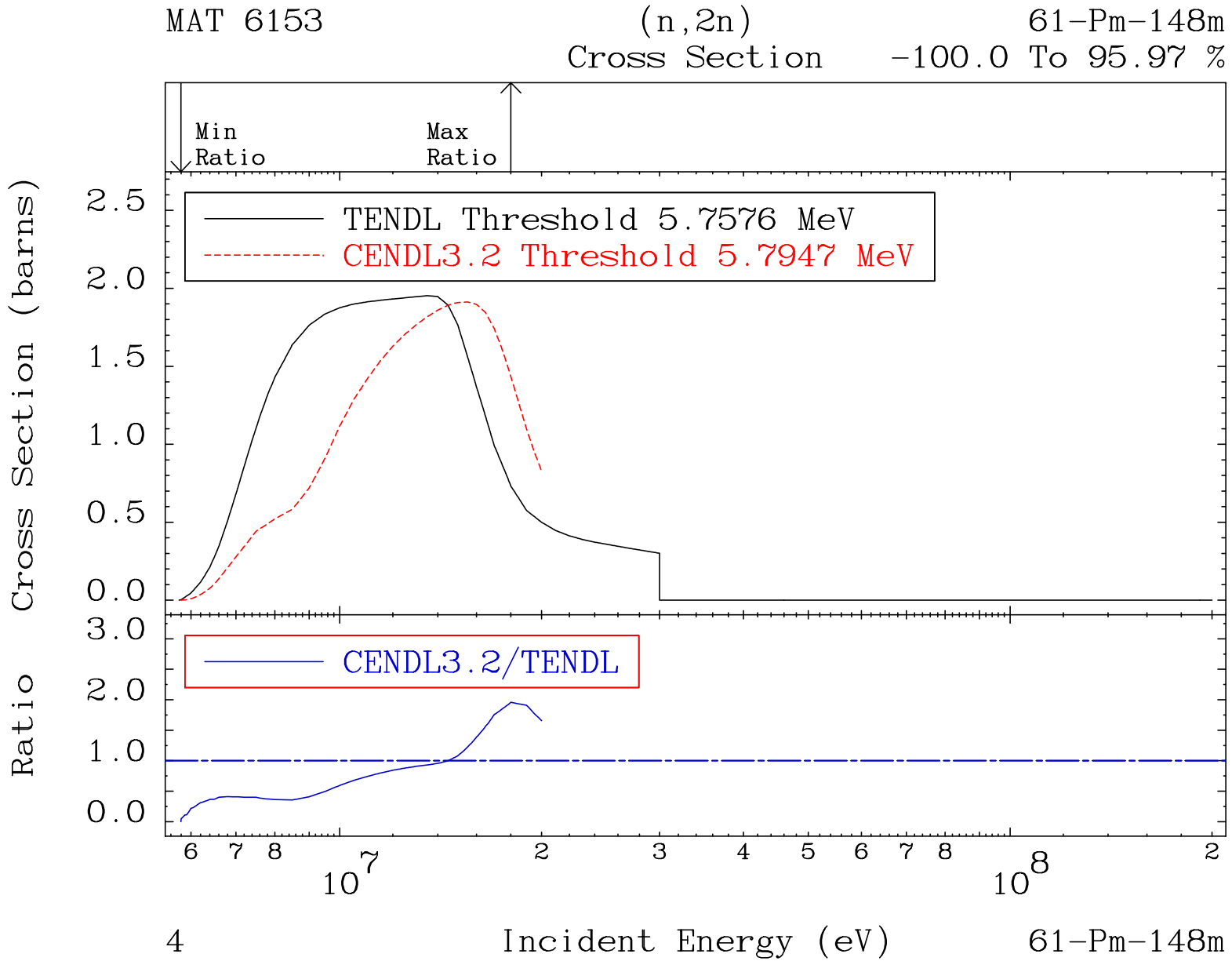
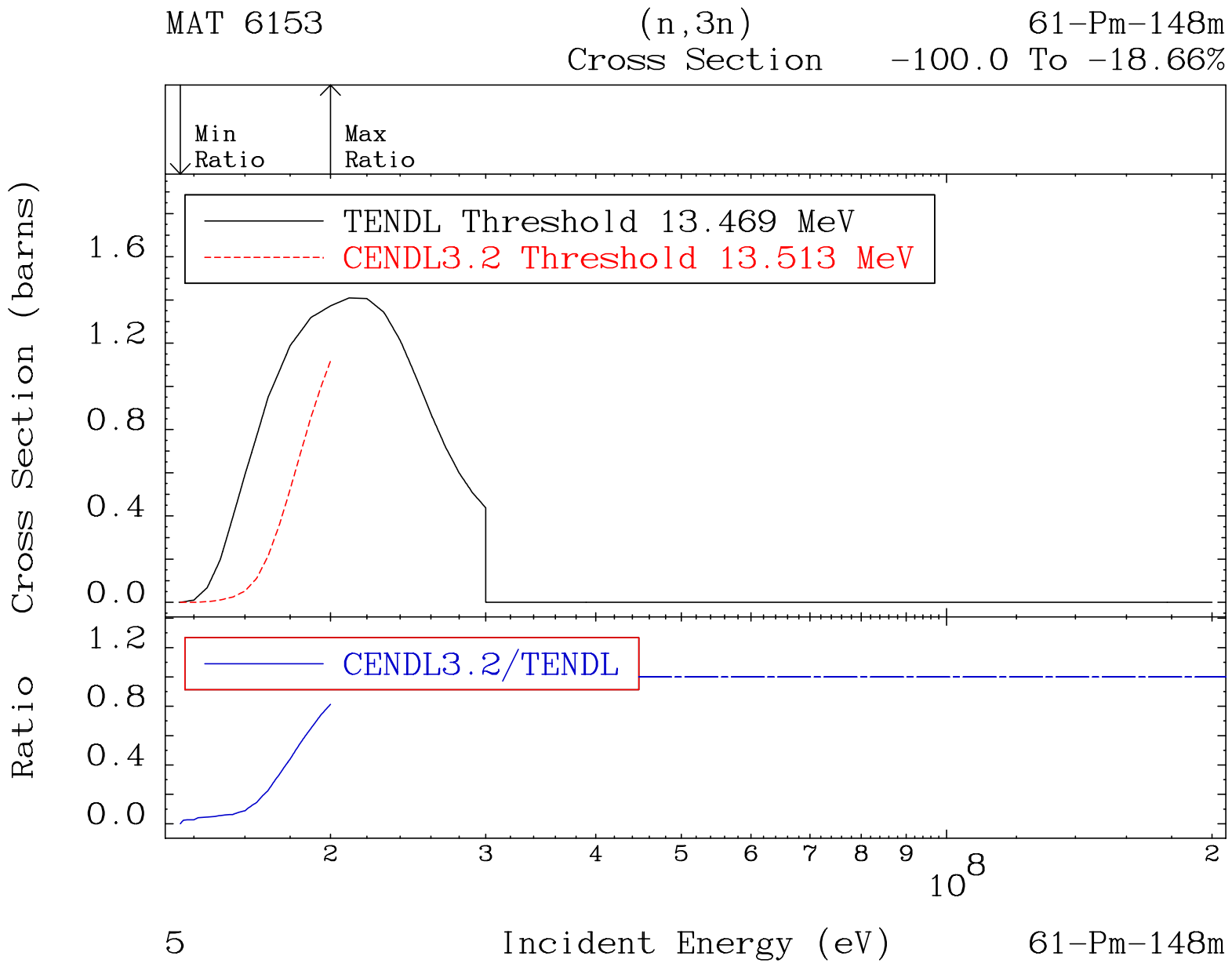
Press Mouse Button to Start

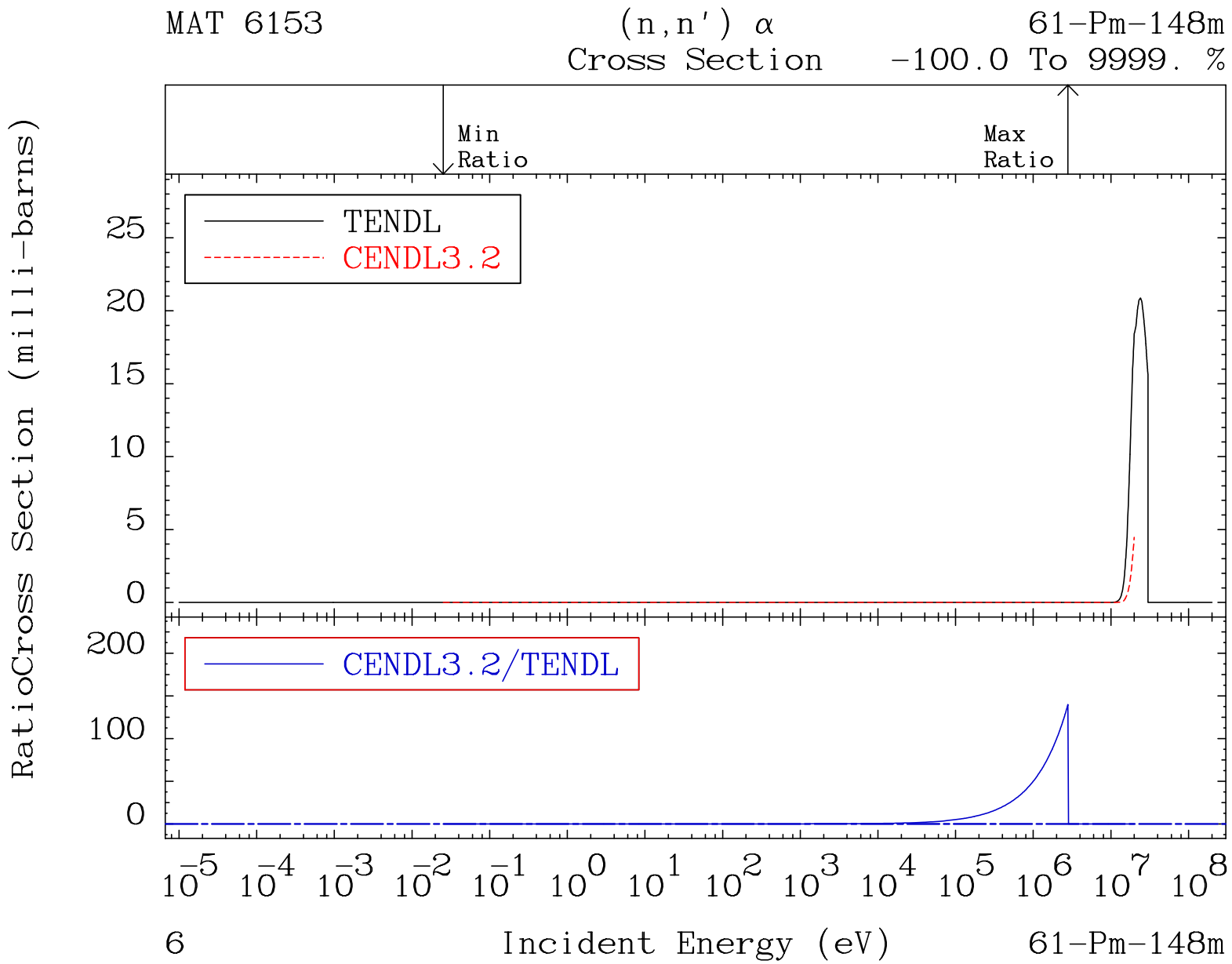

MAT 6153
Total
Cross Section
61-Pm-148m
-96.61 To 4491. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
61-Pm-148m

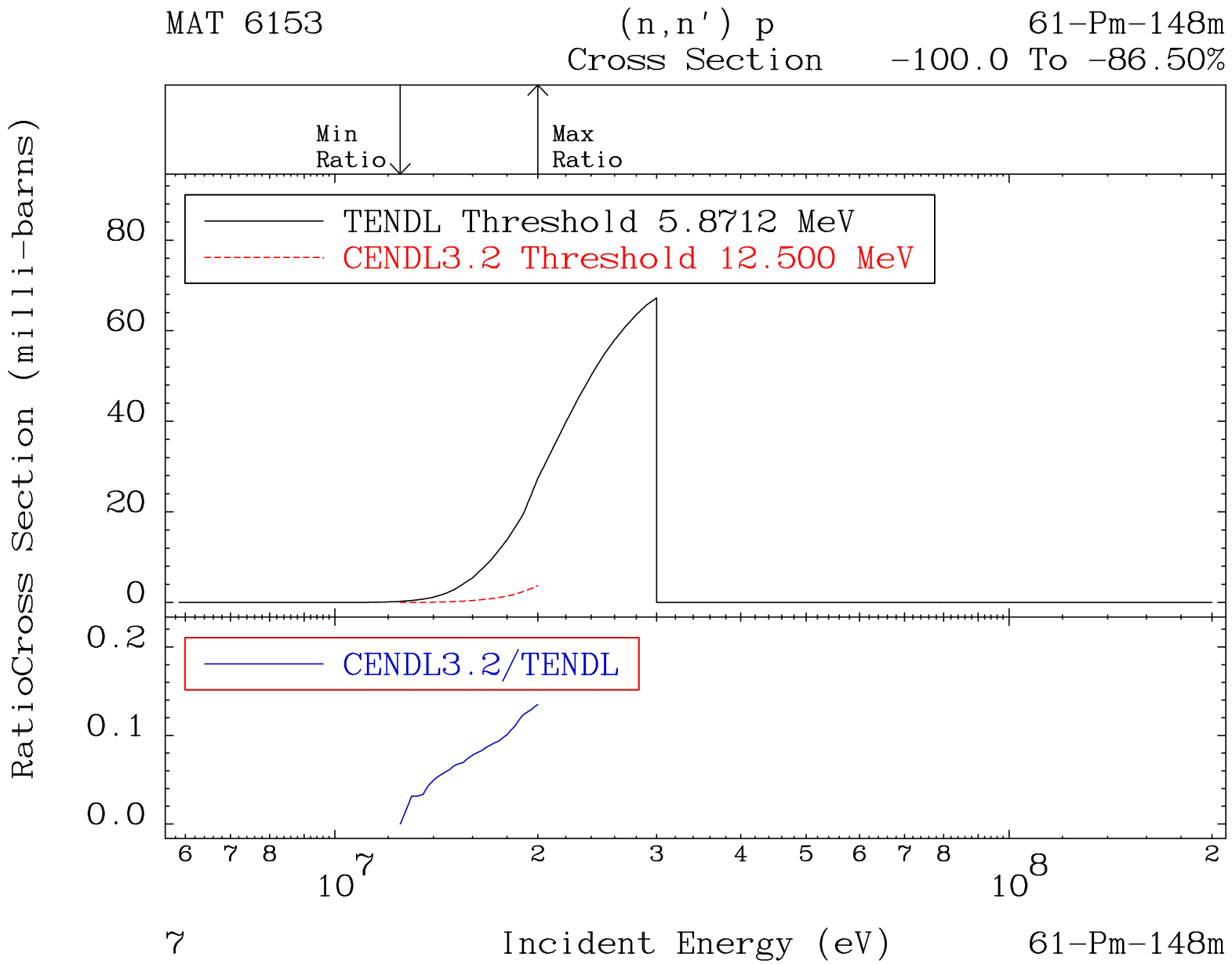

MAT 6153
Elastic
Cross Section
61-Pm-148m
-99.25 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
61-Pm-148m
2

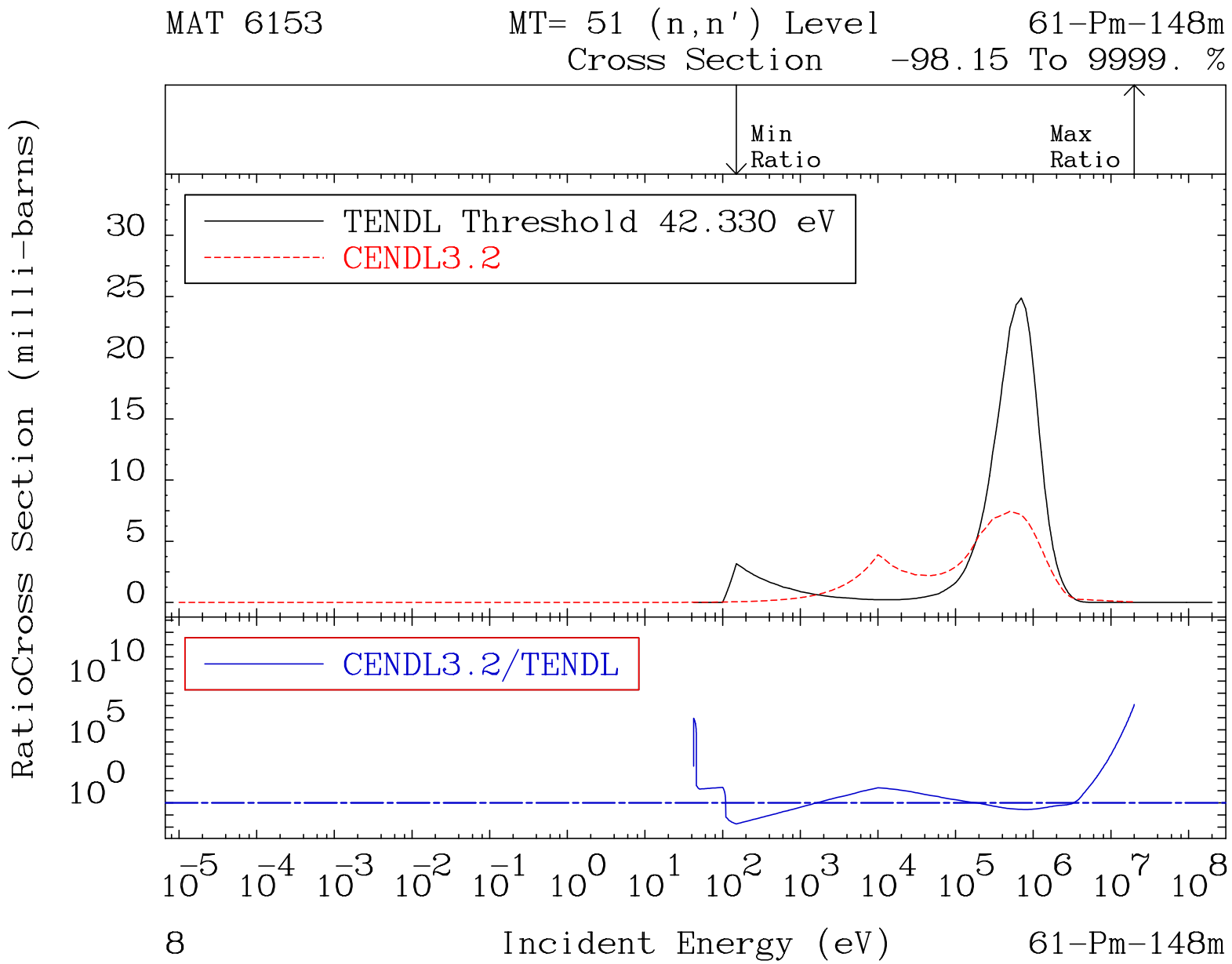

MAT 6153
Inelastic
Cross Section
61-Pm-148m
-99.99 To 3770. %
Max Ratio
Min Ratio
TENDL Threshold 42.330 eV
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
61-Pm-148m

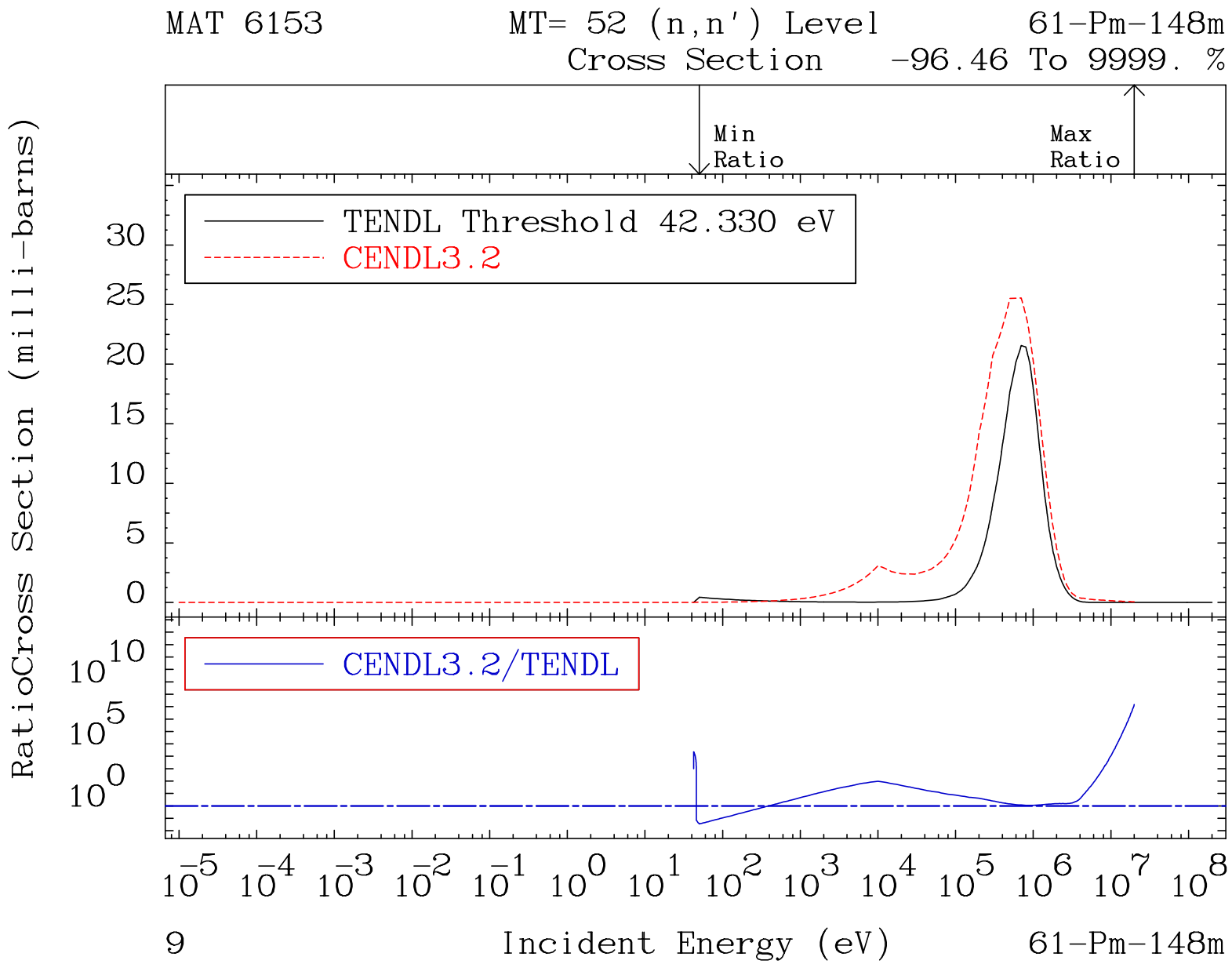

MAT 6153
(n,2n)
Cross Section
61-Pm-148m
-100.0 To 95.97 %
Min Ratio
Max Ratio
TENDL Threshold 5.7576 MeV
CENDL3.2 Threshold 5.7947 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
4
61-Pm-148m

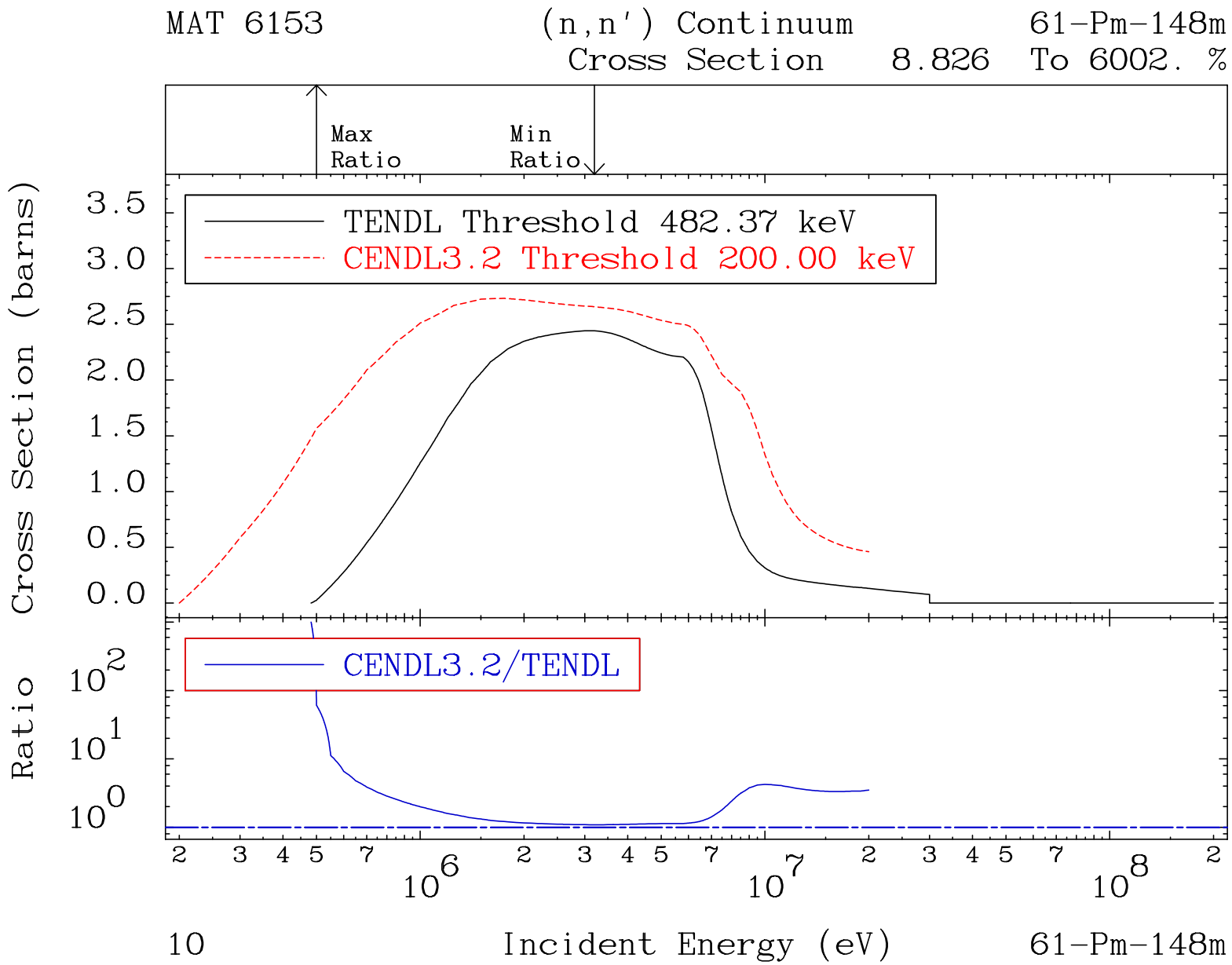

MAT 6153
(n,3n)
Cross Section
61-Pm-148m
-100.0 To -18.66%
Min Ratio
Max Ratio
TENDL Threshold 13.469 MeV
CENDL3.2 Threshold 13.513 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
Incident Energy (eV)
5
61-Pm-148m

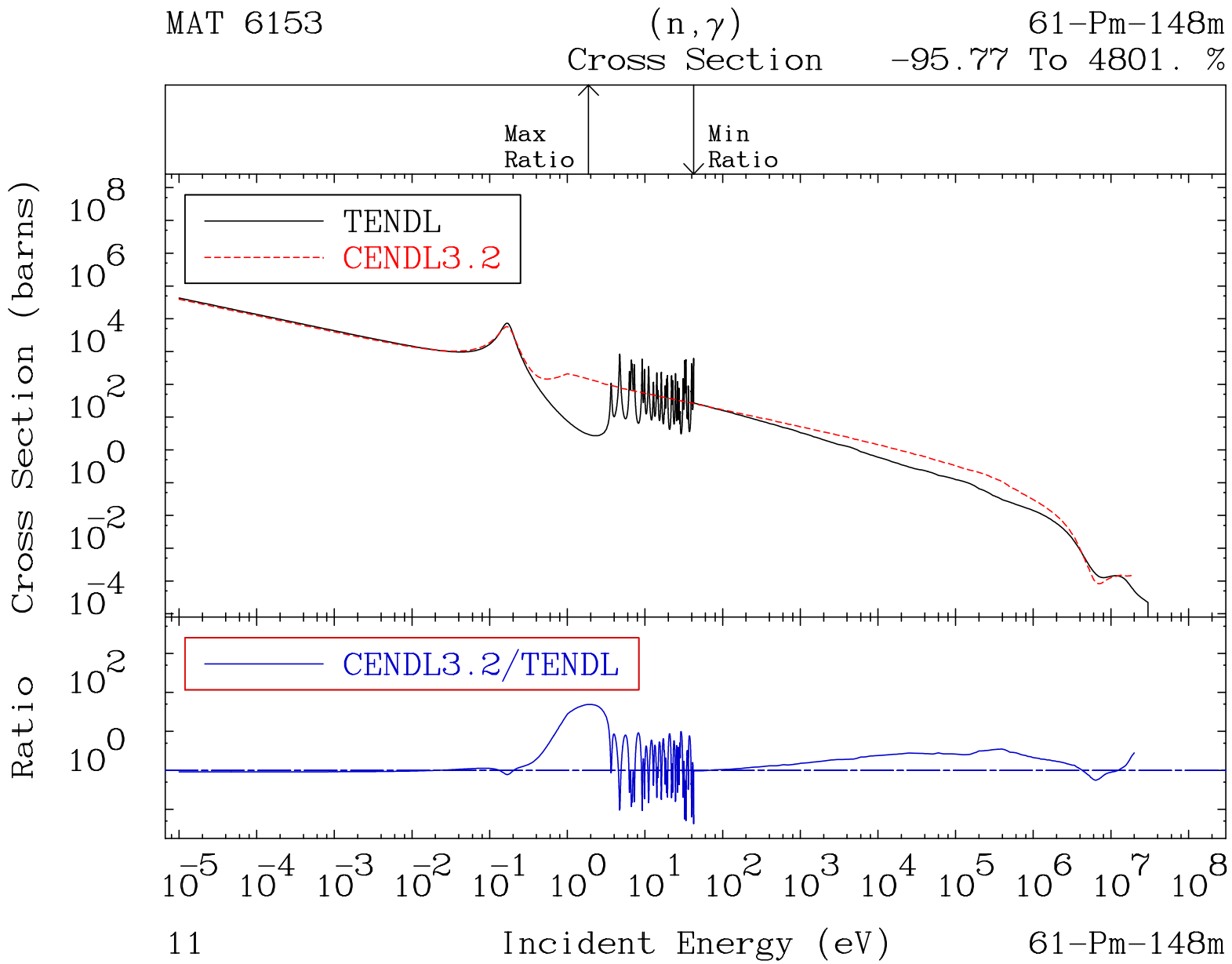

MAT 6153
(n,n') α
61-Pm-148m
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
200
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
6
Incident Energy (eV)
61-Pm-148m

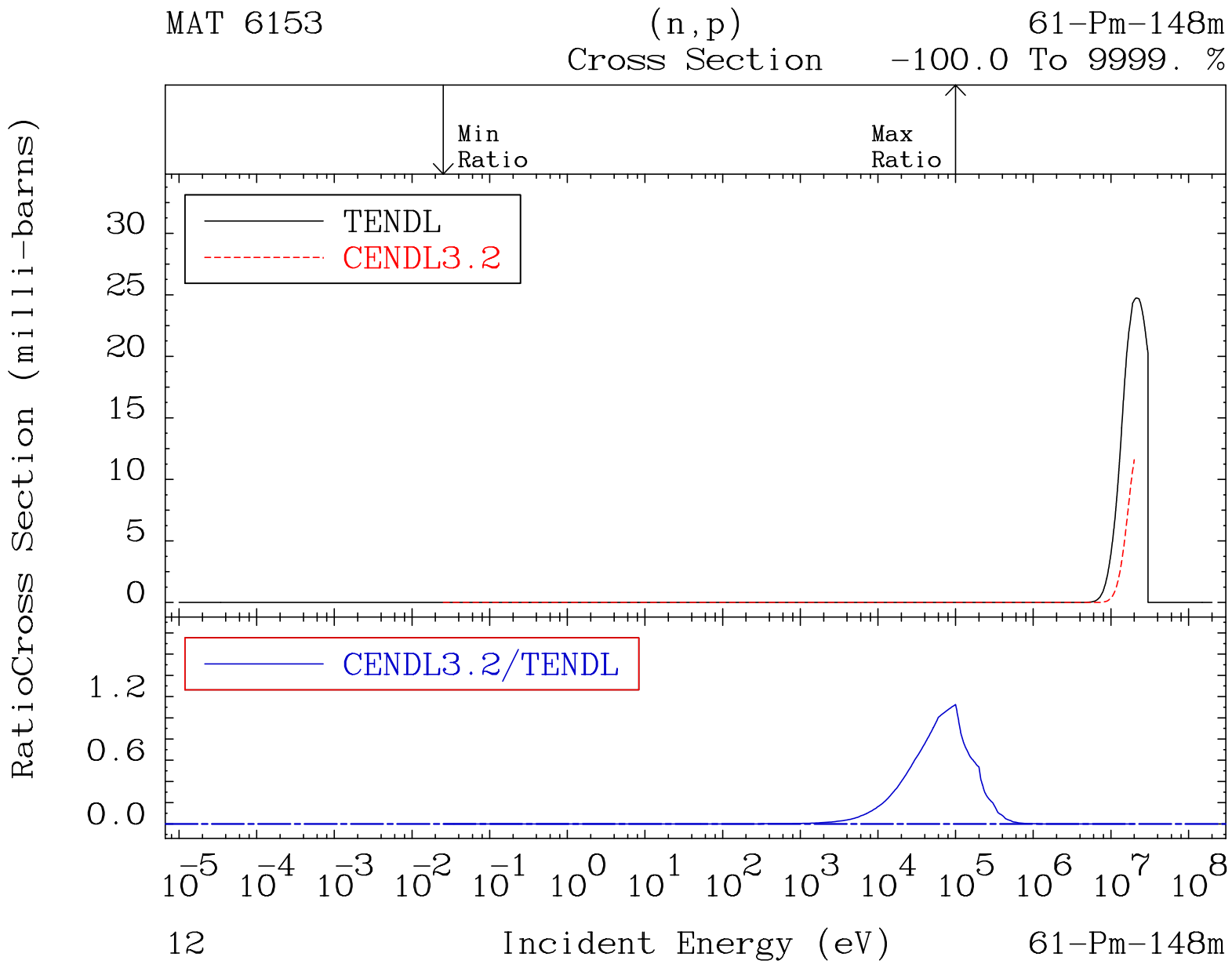

MAT 6153
(n,n') p
Cross Section
61-Pm-148m
-100.0 To -86.50%
Min Ratio
Max Ratio
TENDL Threshold 5.8712 MeV
CENDL3.2 Threshold 12.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
0.2
0.1
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
61-Pm-148m

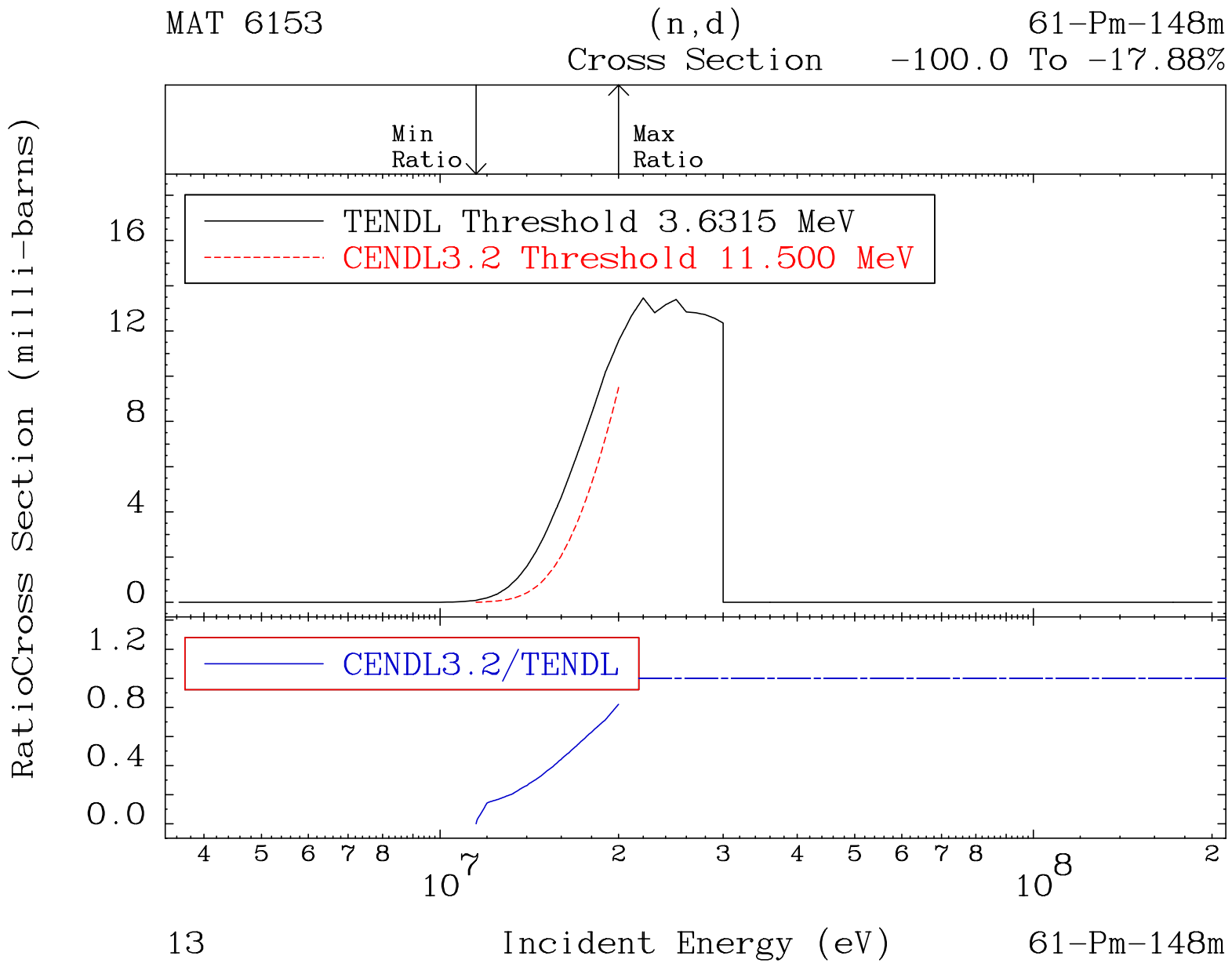

MAT 6153
MT= 51 (n,n') Level
61-Pm-148m
Cross Section -98.15 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 42.330 eV
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
8
61-Pm-148m

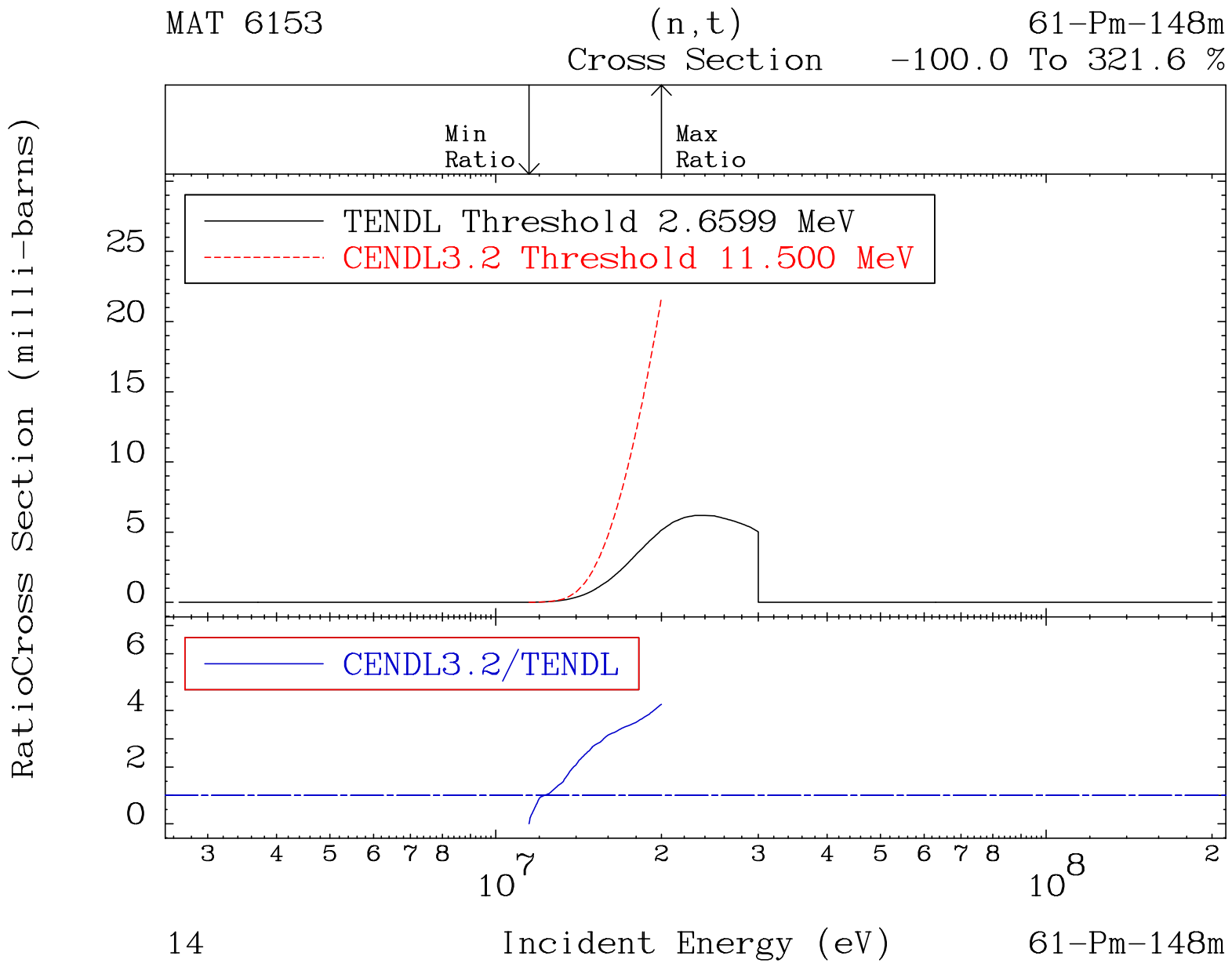

MAT 6153
MT= 52 (n,n') Level
61-Pm-148m
Cross Section -96.46 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 42.330 eV
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
61-Pm-148m

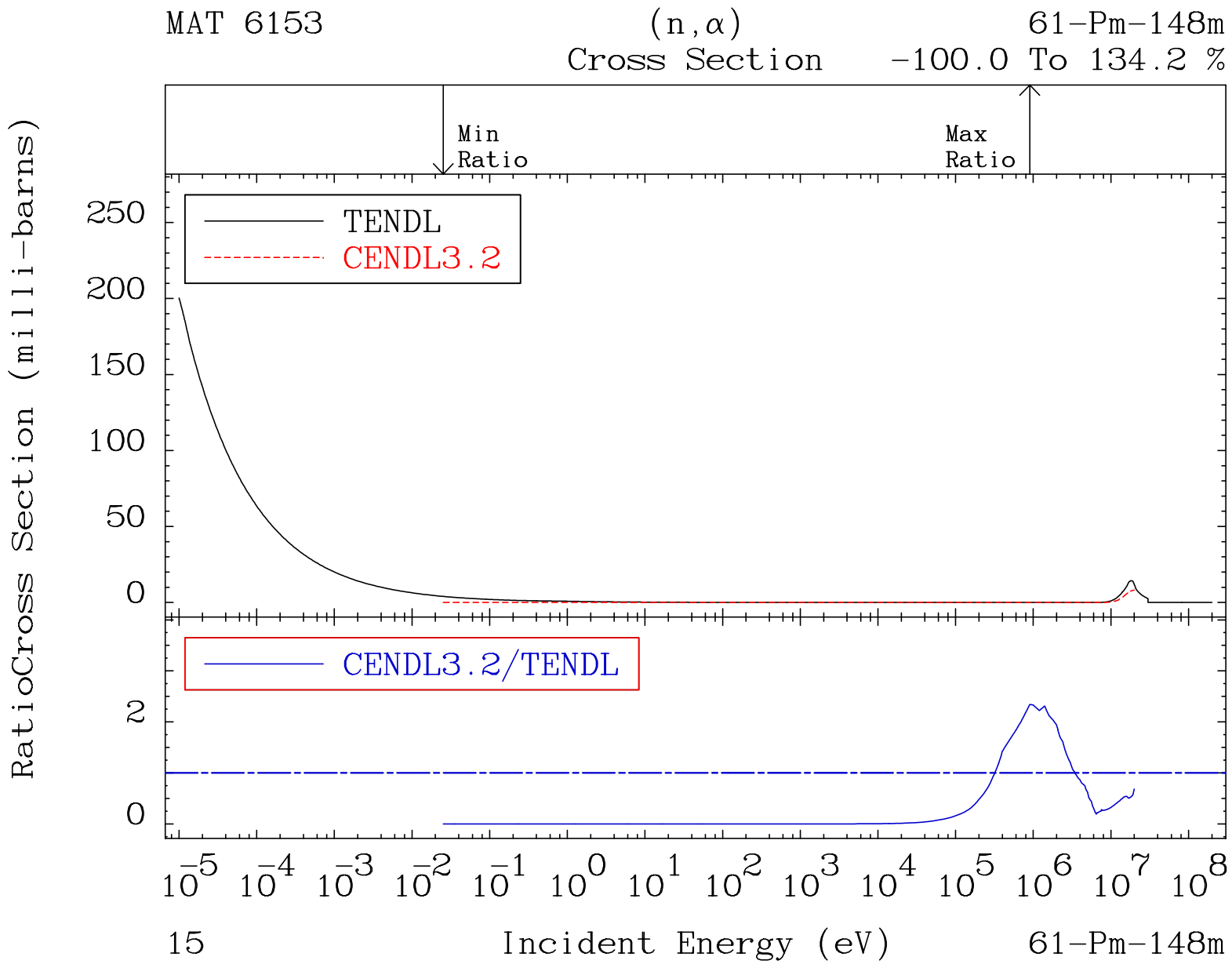

MAT 6153
(n,n') Continuum
Cross Section
8.826
61-Pm-148m
To 6002. %
Max Ratio
Min Ratio
TENDL Threshold 482.37 keV
CENDL3.2 Threshold 200.00 keV
Cross Section (barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
10^2
10^1
10^0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
10
Incident Energy (eV)
61-Pm-148m

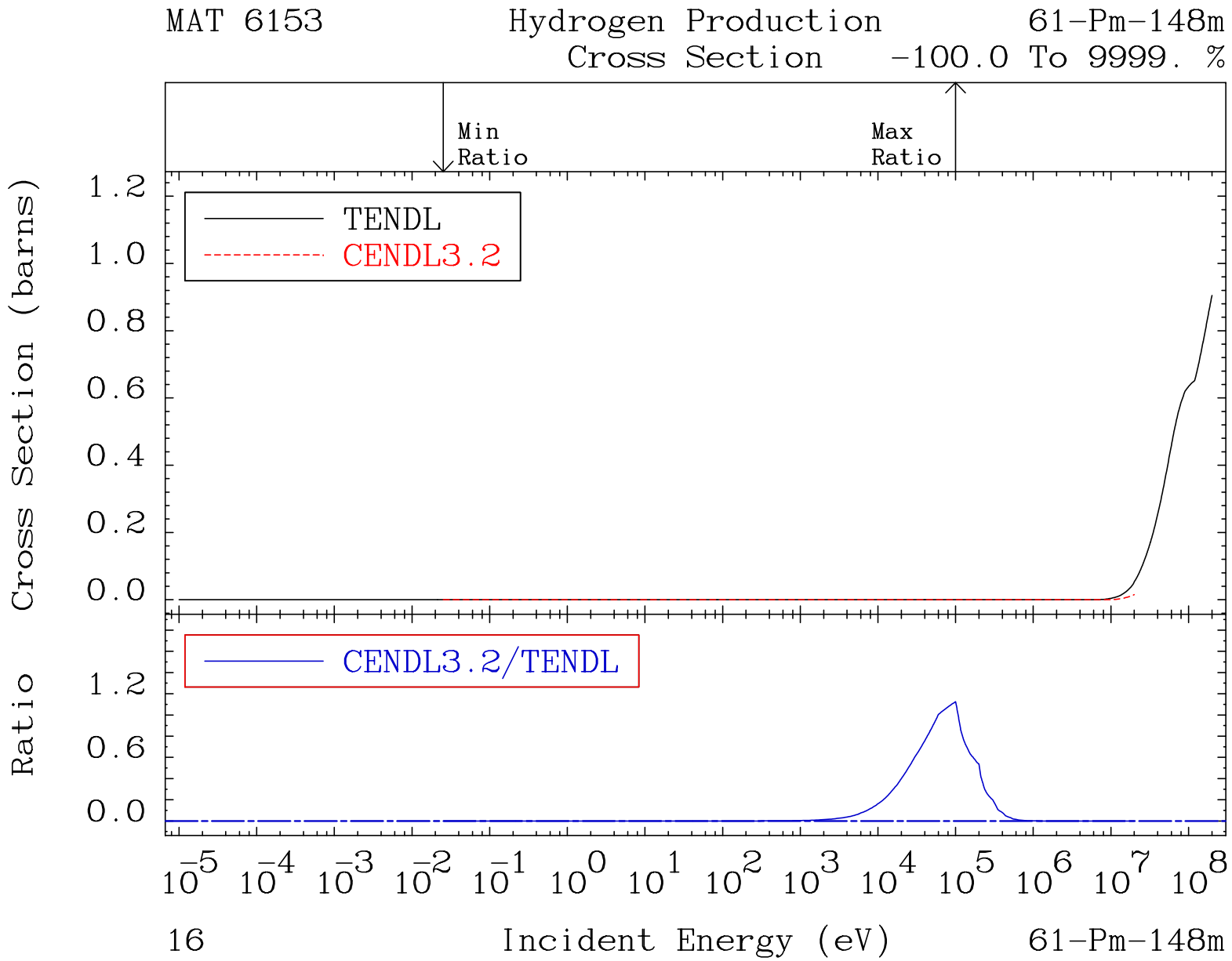

MAT 6153
(n,γ)
61-Pm-148m
Cross Section
-95.77 To 4801. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
11
61-Pm-148m

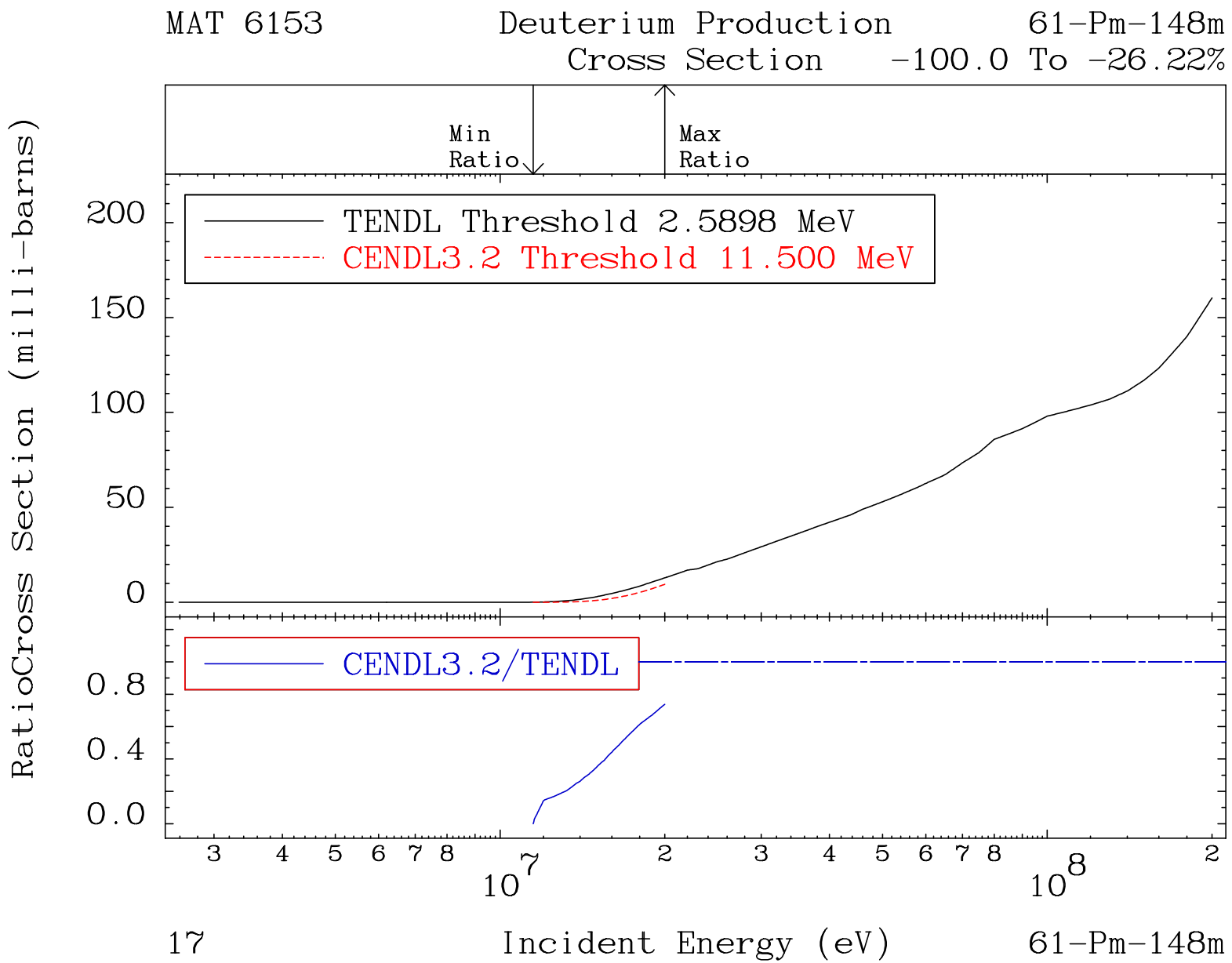

MAT 6153
(n,p)
Cross Section
61-Pm-148m
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
12
61-Pm-148m

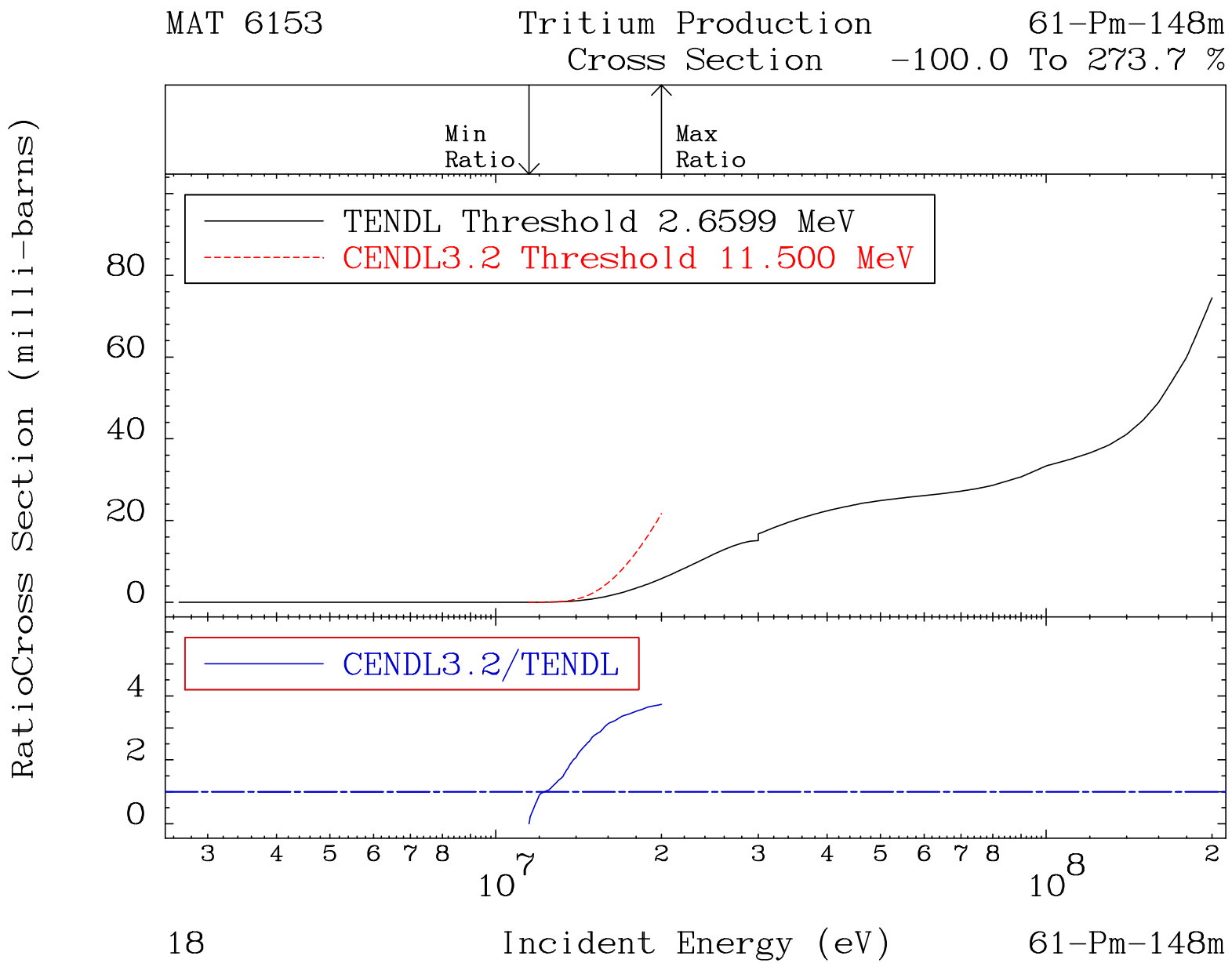

MAT 6153
(n,d)
Cross Section
61-Pm-148m
-100.0 To -17.88%
Min Ratio
Max Ratio
TENDL Threshold 3.6315 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.8
0.4
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
61-Pm-148m

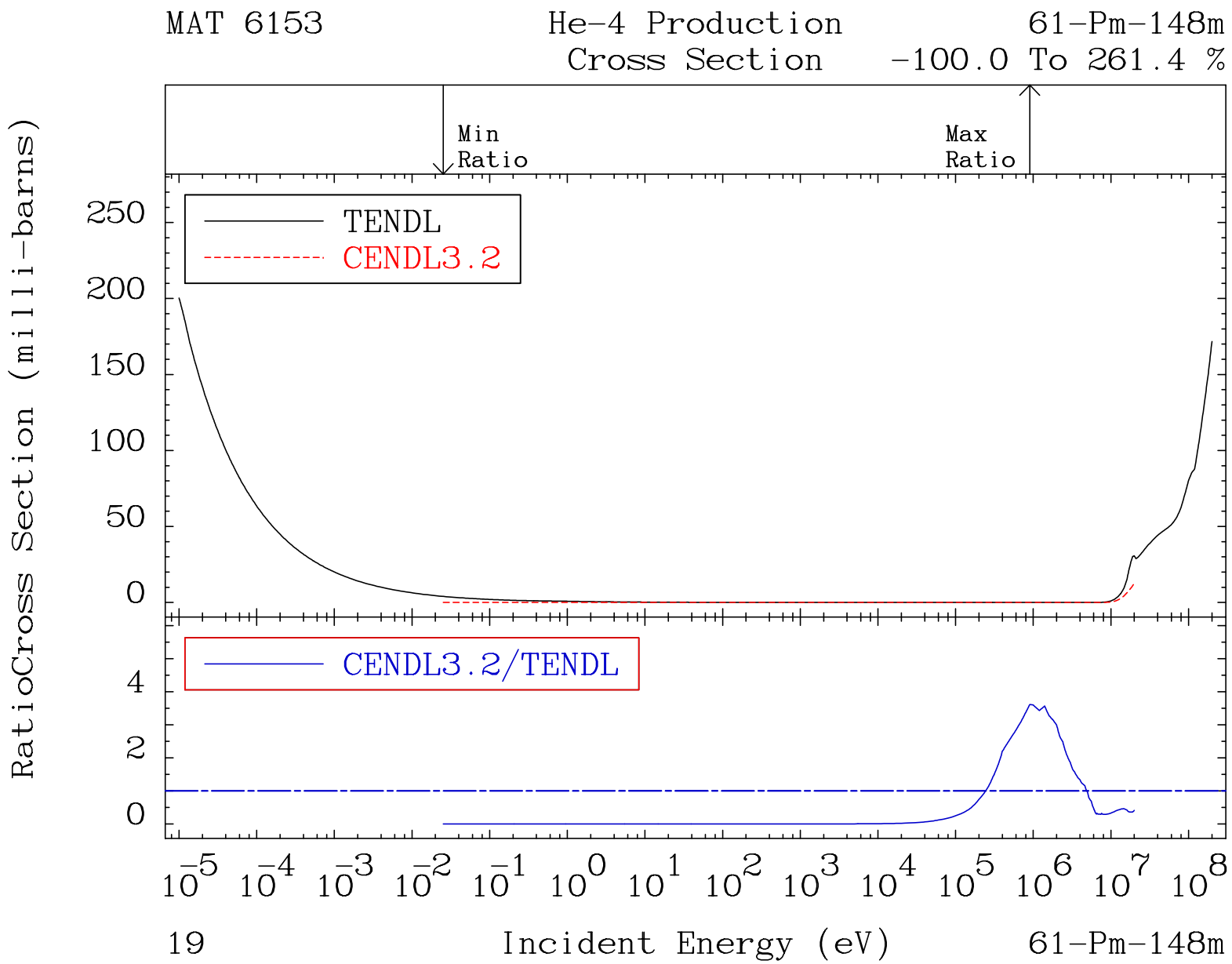

MAT 6153
(n,t)
Cross Section
61-Pm-148m
-100.0 To 321.6 %
Min Ratio
Max Ratio
TENDL Threshold 2.6599 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
6
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
61-Pm-148m

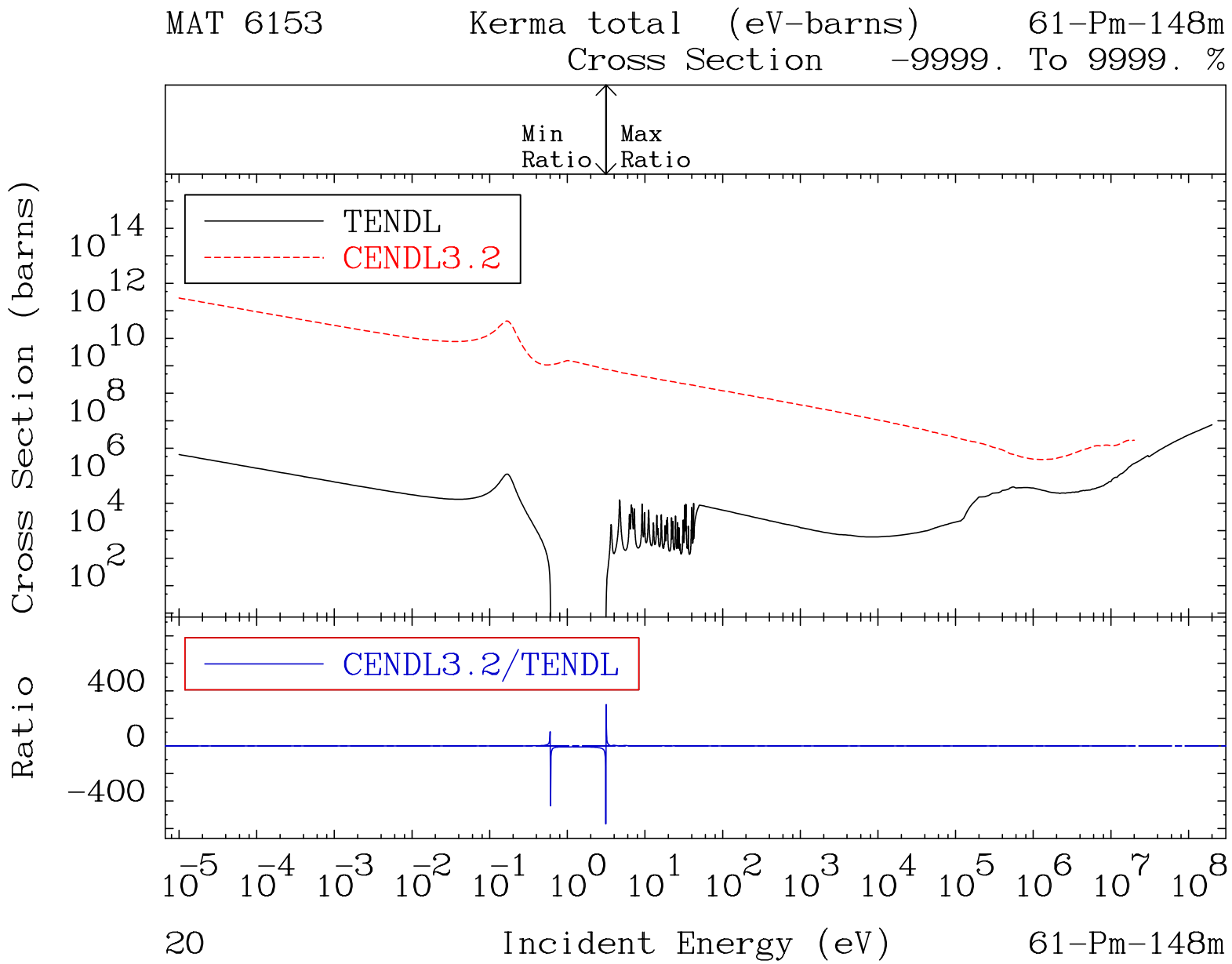

MAT 6153
(n,α)
Cross Section
61-Pm-148m
-100.0 To 134.2 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
15
Incident Energy (eV)
61-Pm-148m

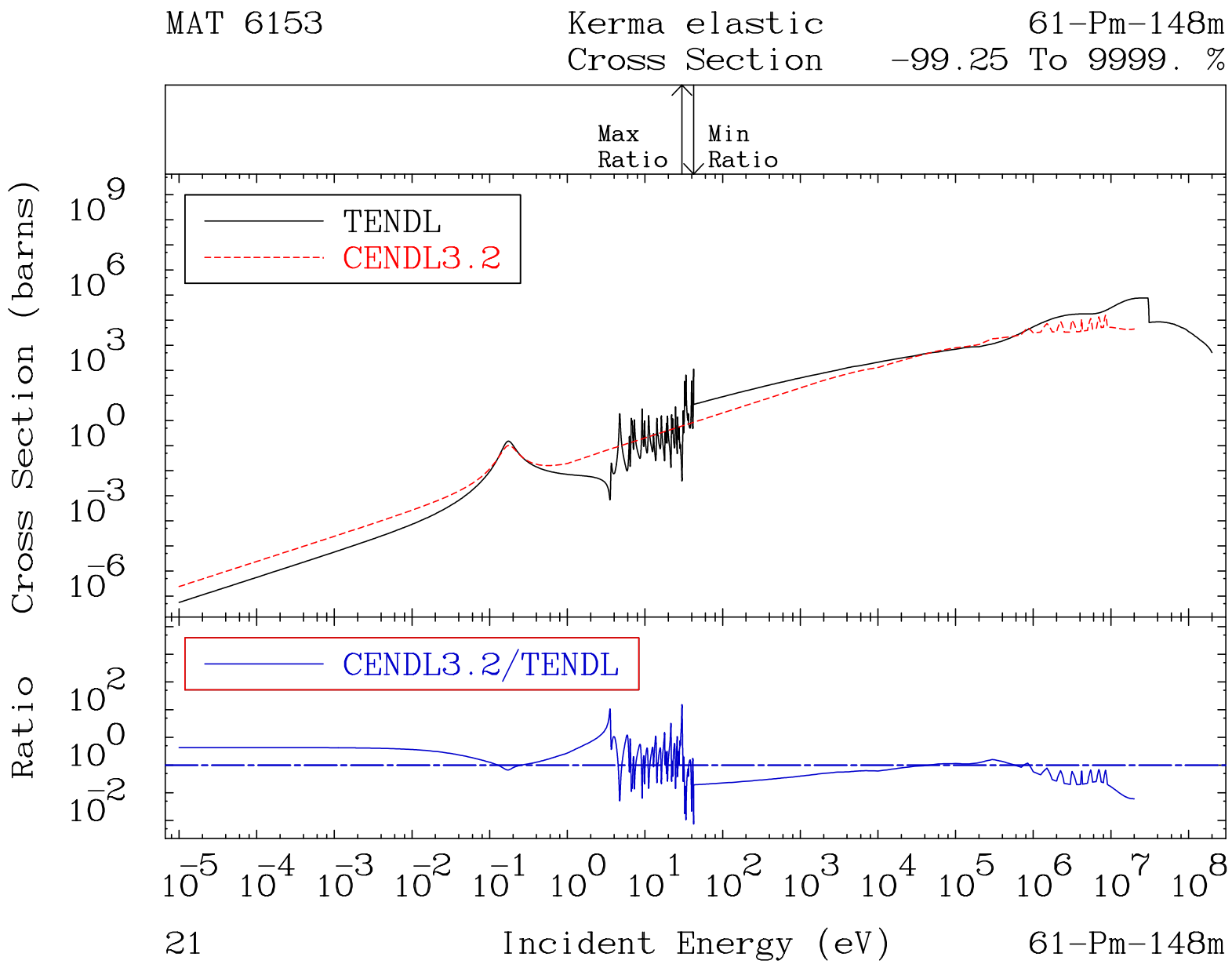

MAT 6153
Hydrogen Production
61-Pm-148m
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
Incident Energy (eV)
16
61-Pm-148m

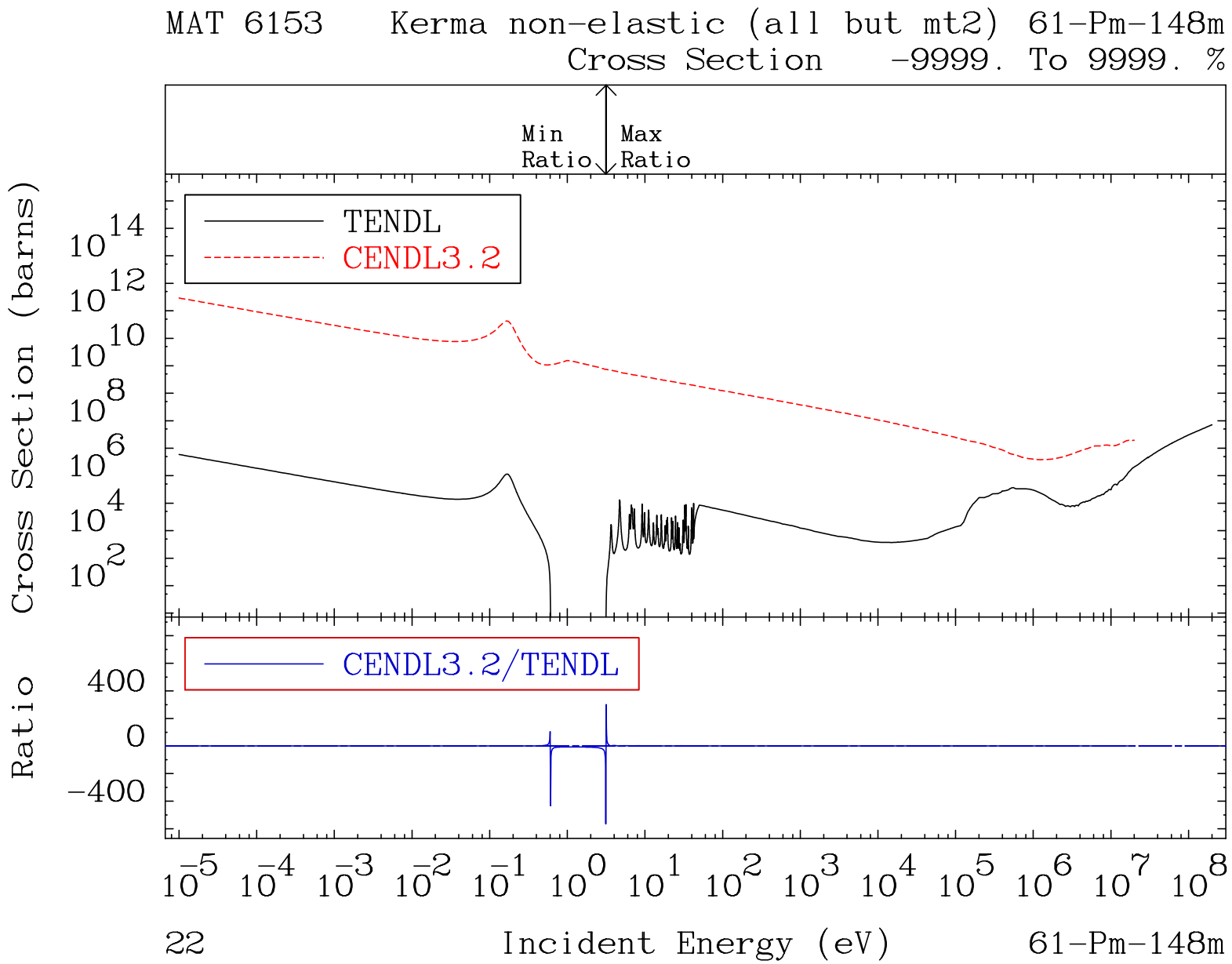

MAT 6153
Deuterium Production
61-Pm-148m
Cross Section -100.0 To -26.22%
Min Ratio
Max Ratio
TENDL Threshold 2.5898 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
0.8
0.4
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
61-Pm-148m

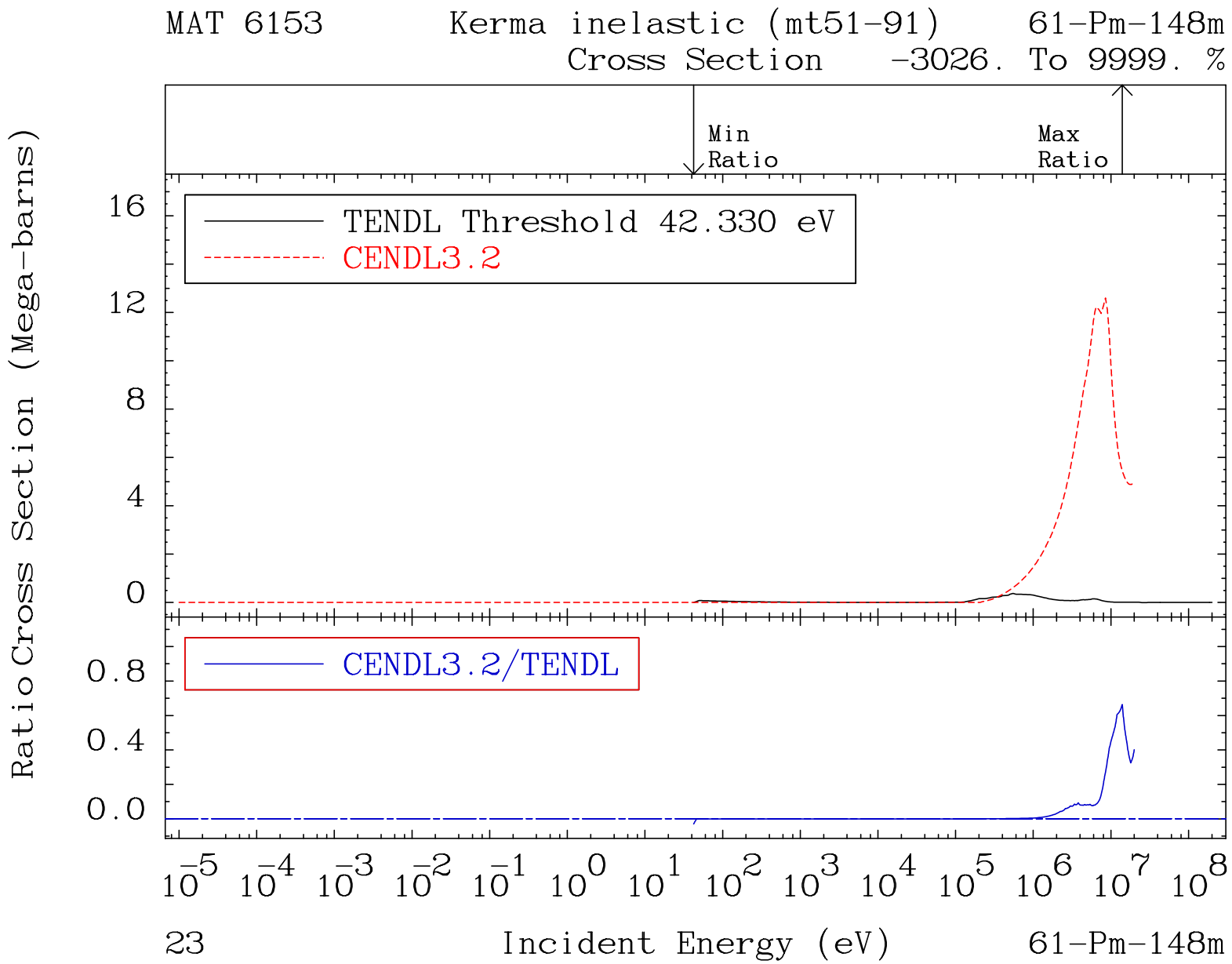

MAT 6153
Tritium Production
61-Pm-148m
Cross Section
-100.0 To 273.7 %
Min Ratio
Max Ratio
TENDL Threshold 2.6599 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
61-Pm-148m

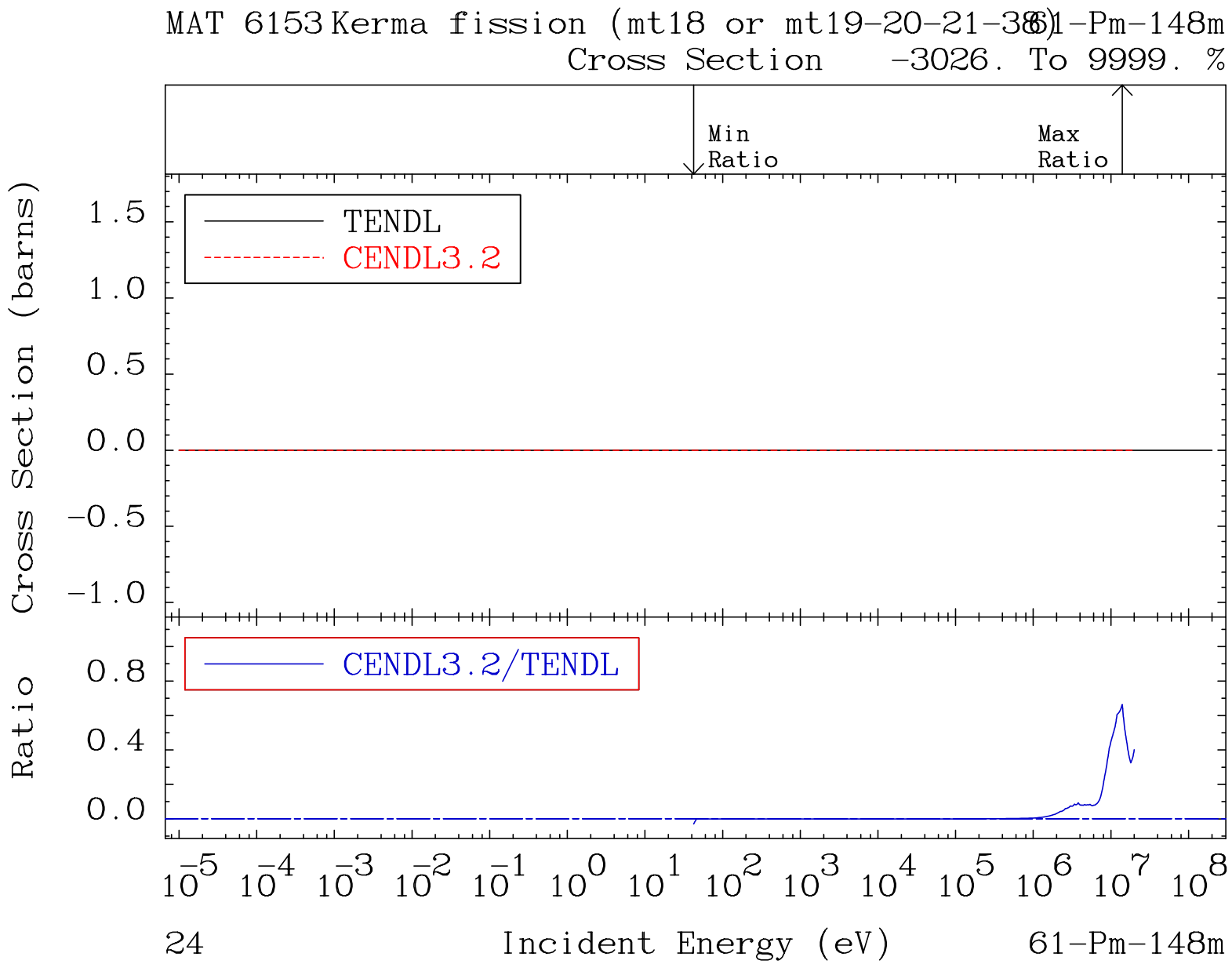

MAT 6153
He-4 Production
Cross Section
61-Pm-148m
-100.0 To 261.4 %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
19
Incident Energy (eV)
61-Pm-148m

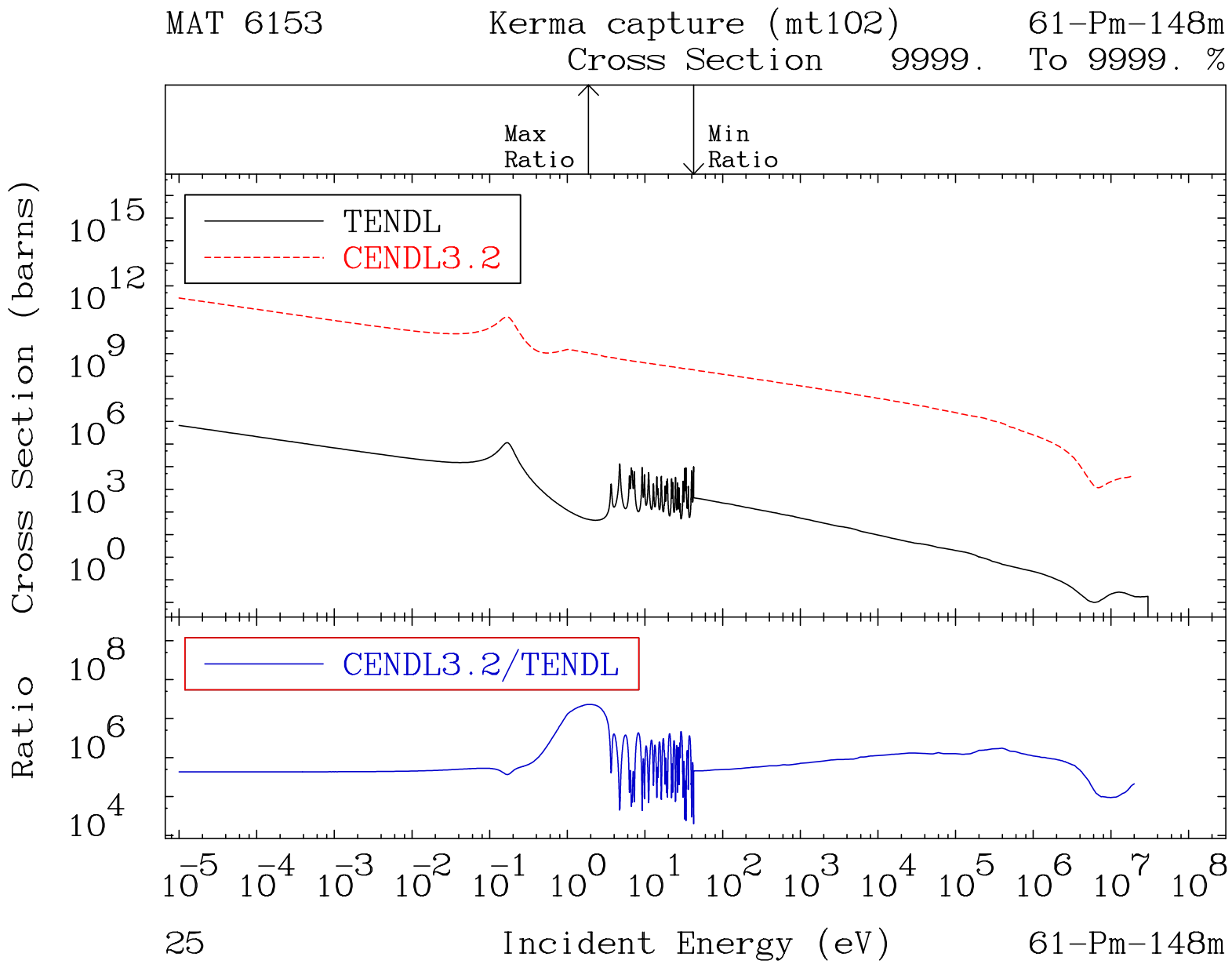

MAT 6153
Kerma total (eV-barns)
61-Pm-148m
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
20
61-Pm-148m

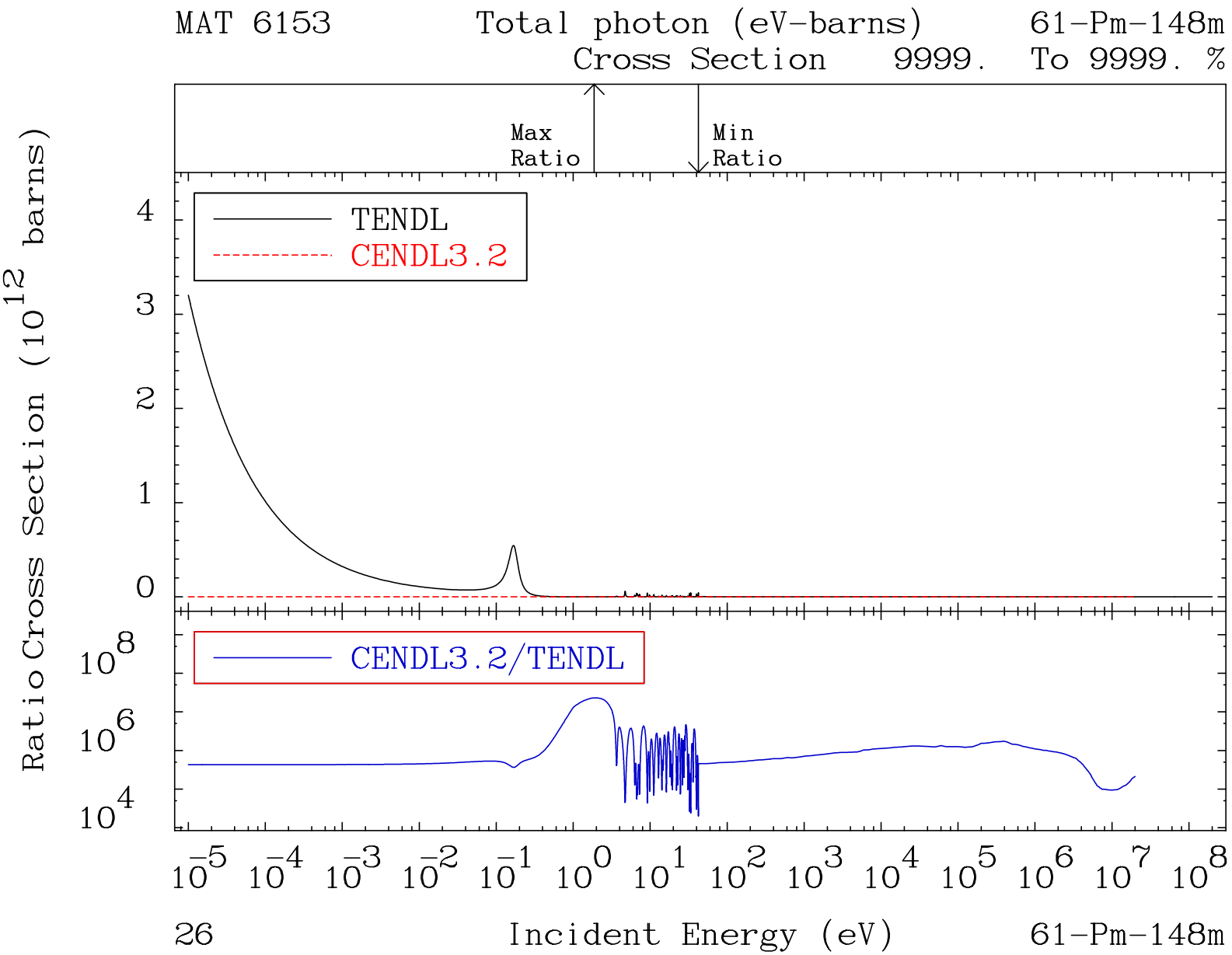

MAT 6153
Kerma elastic
Cross Section
61-Pm-148m
-99.25 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
21
61-Pm-148m

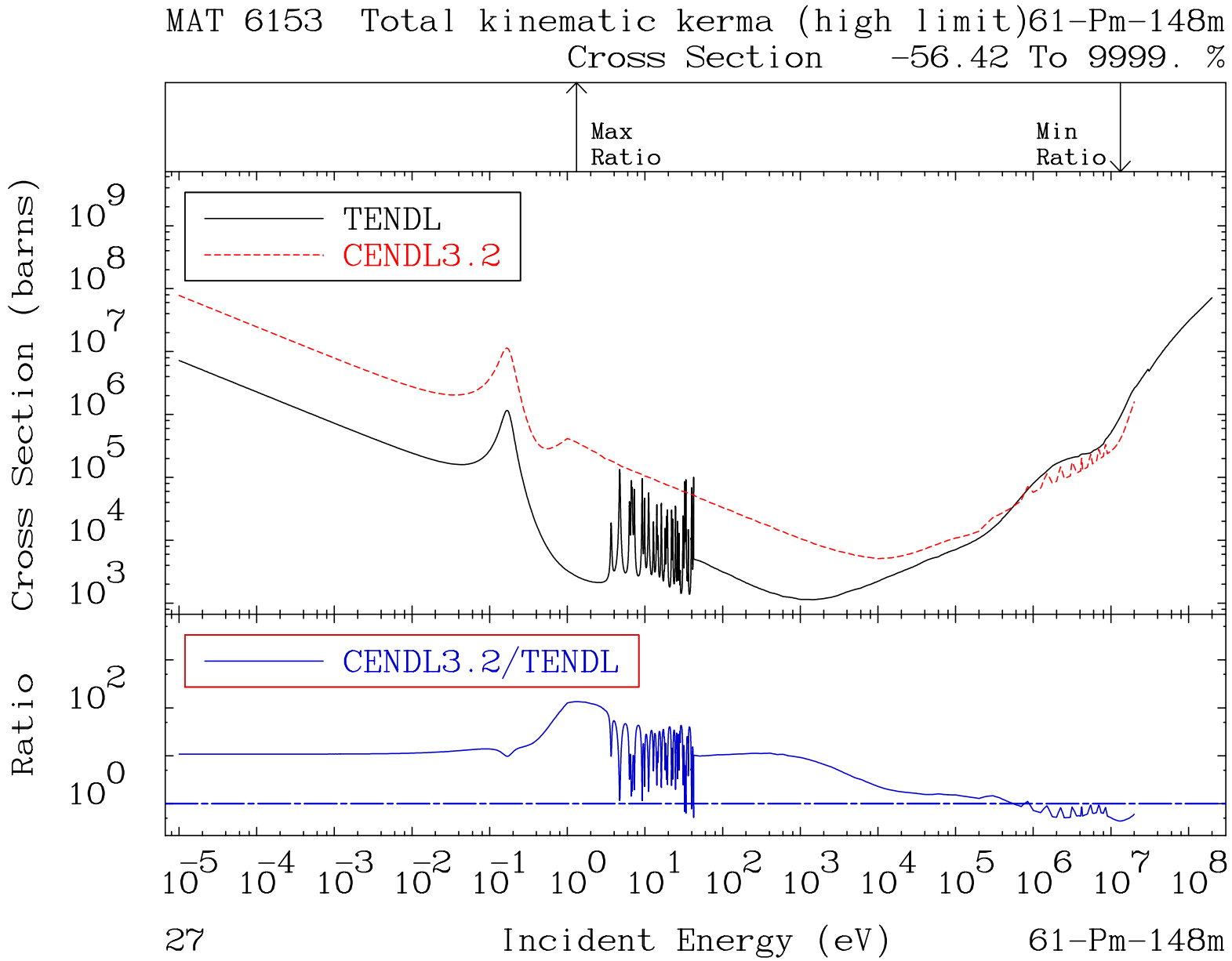

MAT 6153 Kerma non-elastic (all but mt2) 61-Pm-148m
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
22
61-Pm-148m

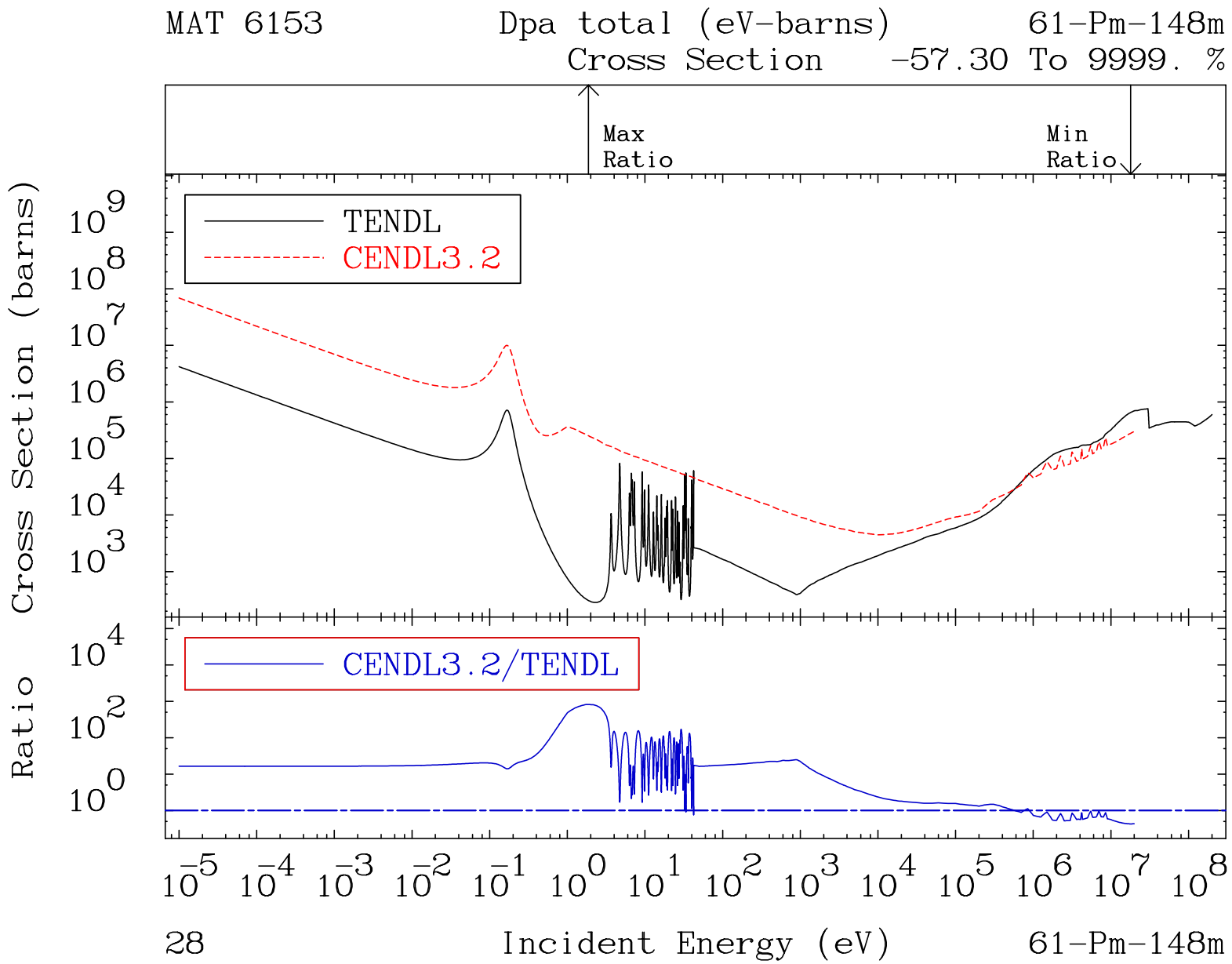

MAT 6153
Kerma inelastic (mt51-91)
61-Pm-148m
Cross Section -3026. To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 42.330 eV
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Mega-barns)
16
12
8
4
0
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
23
Incident Energy (eV)
61-Pm-148m

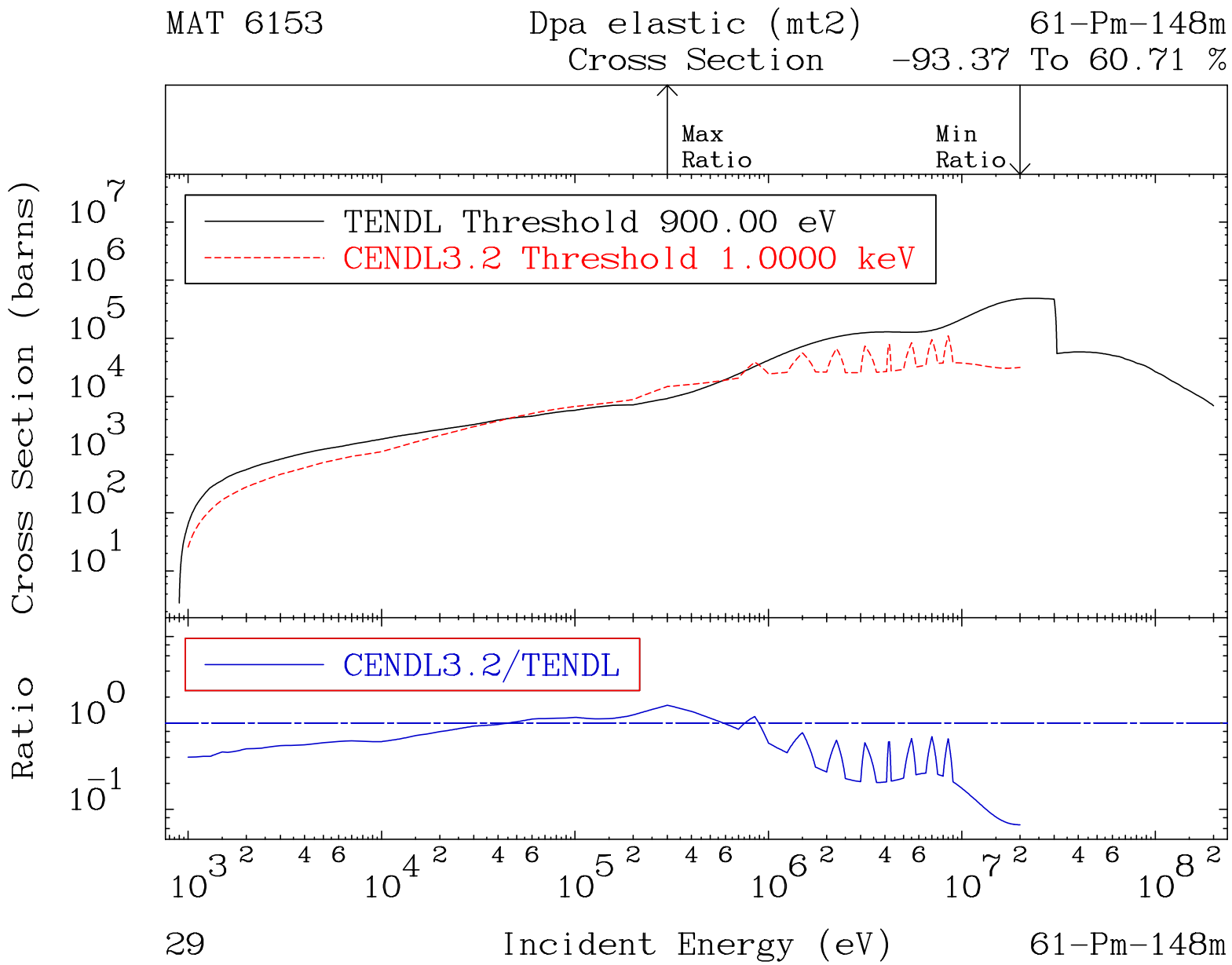

MAT 6153 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-148m
Cross Section -3026. To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0.8
0.4
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
24
Incident Energy (eV)
61-Pm-148m

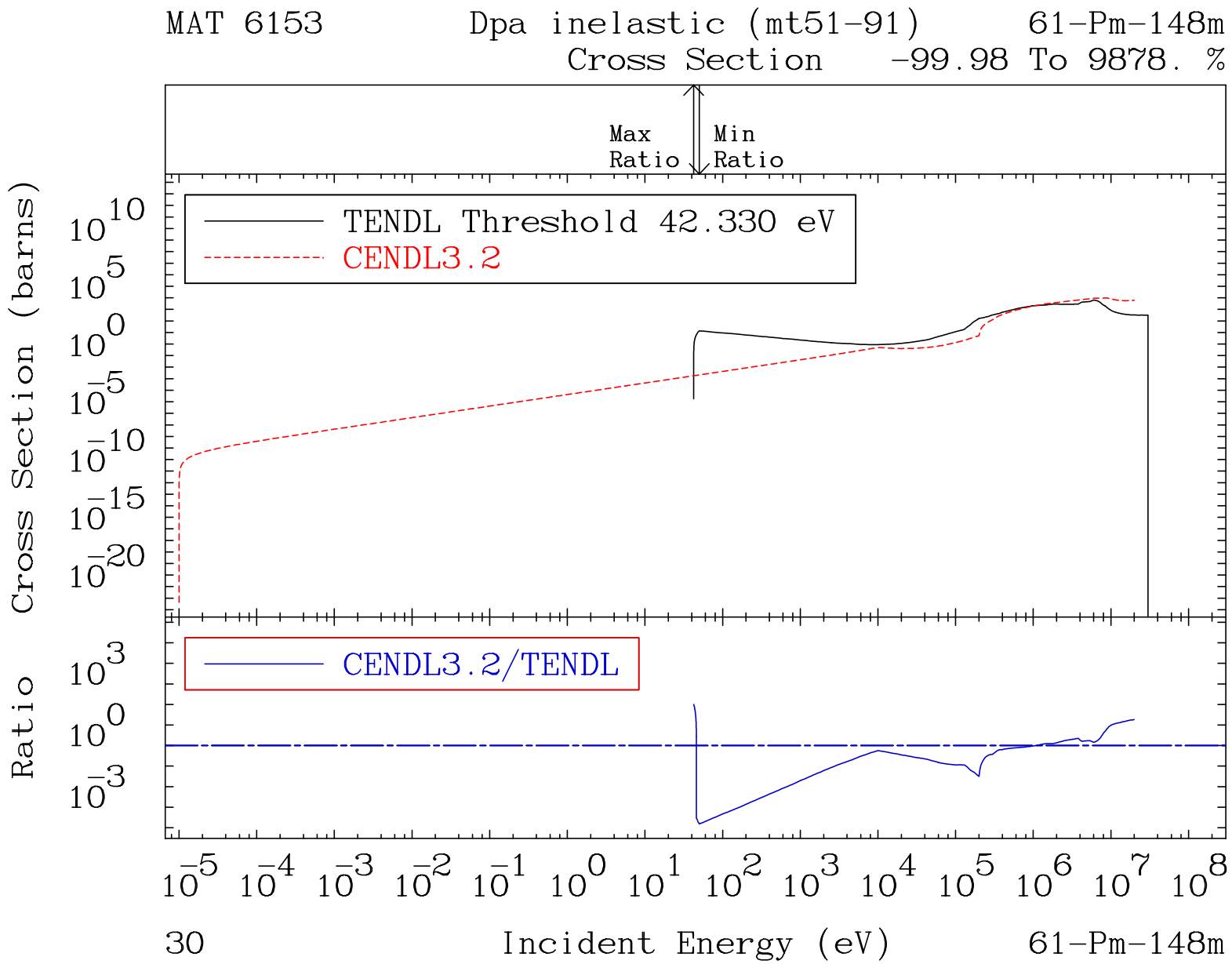

MAT 6153
Kerma capture (mt102)
61-Pm-148m
Cross Section 9999. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
25
61-Pm-148m

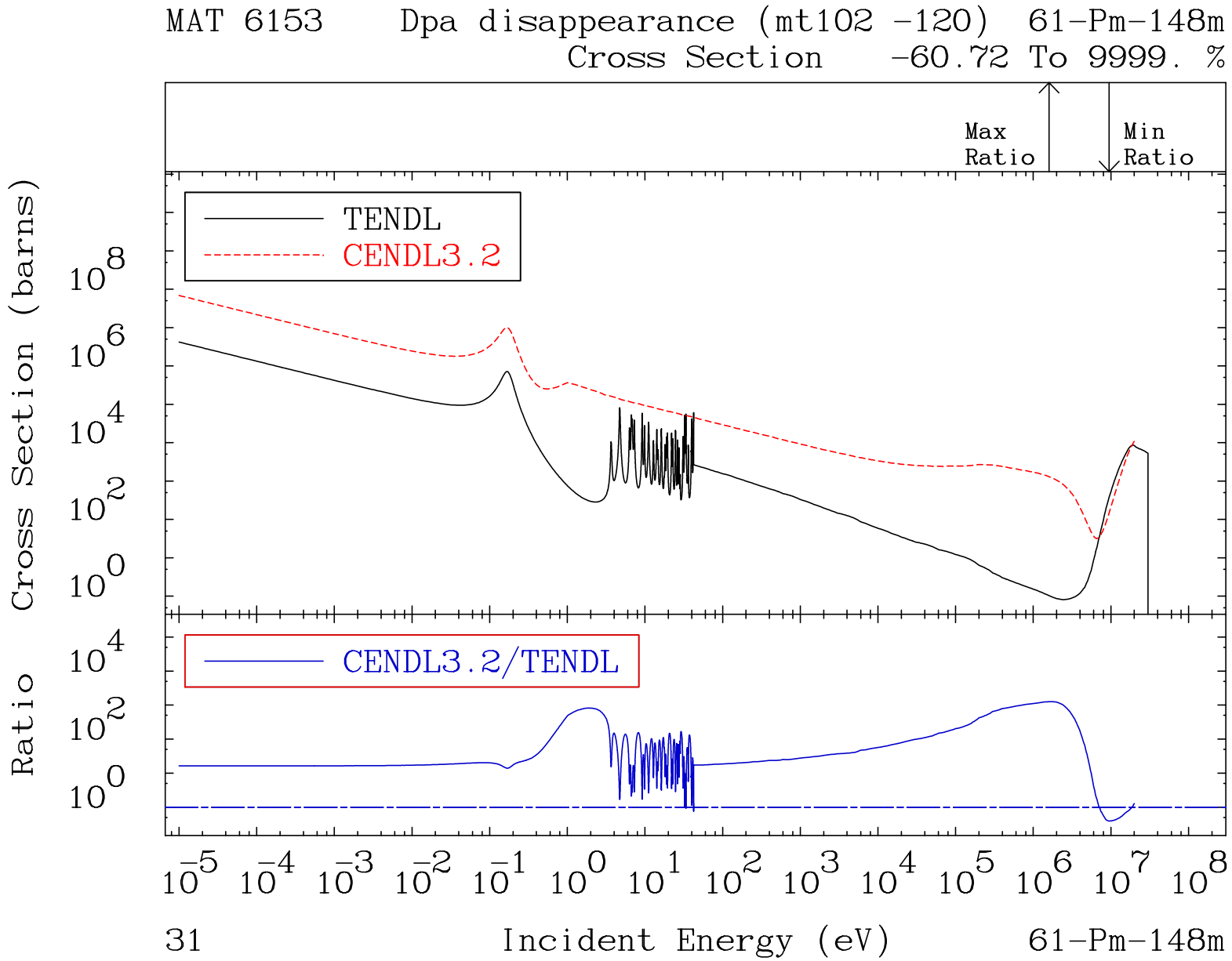

MAT 6153
Total photon (eV-barns)
61-Pm-148m
Cross Section 9999. To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (10^{12} barns)
Incident Energy (eV)
26
61-Pm-148m

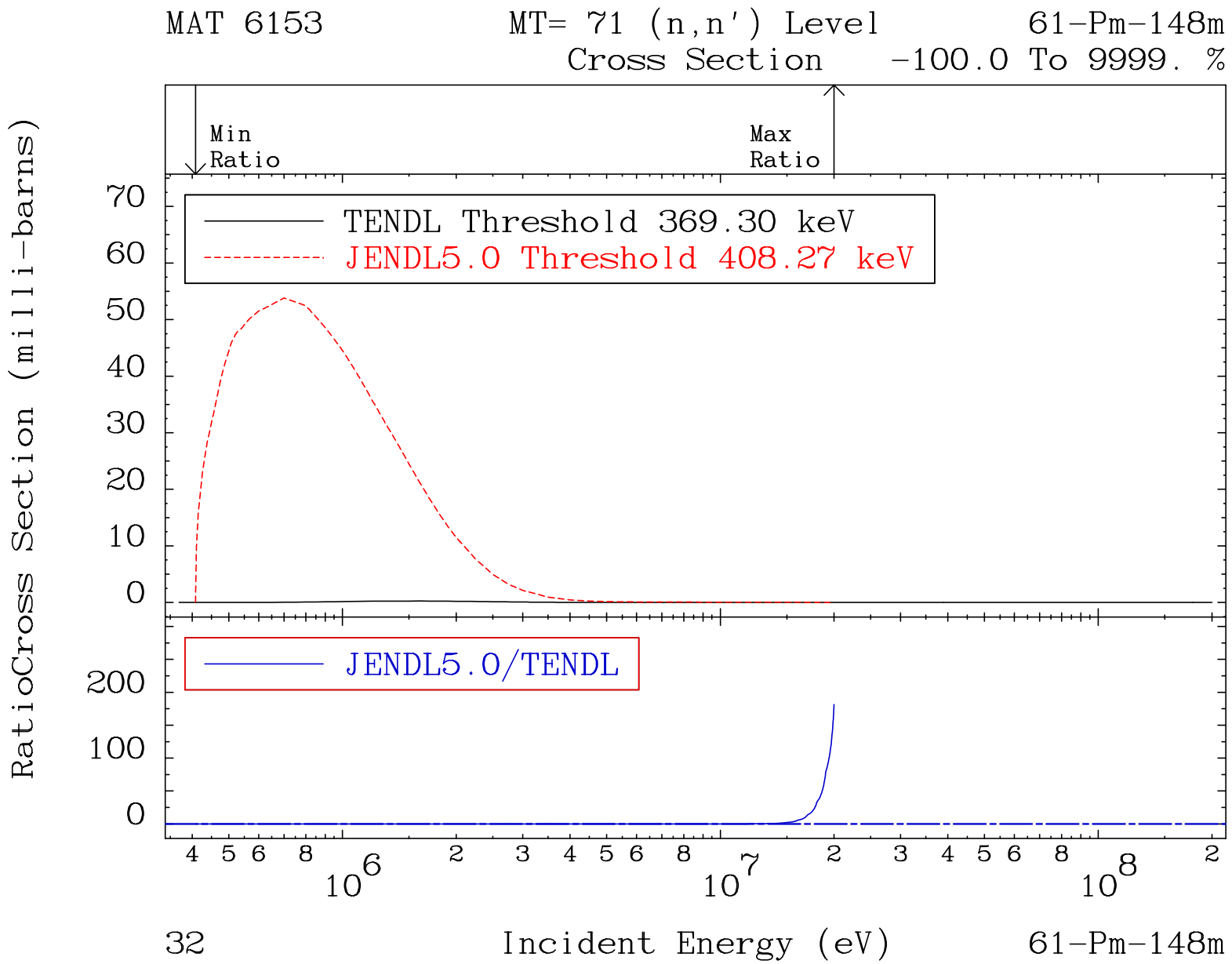

MAT 6153 Total kinematic kerma (high limit)61-Pm-148m
Cross Section -56.42 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
27
61-Pm-148m

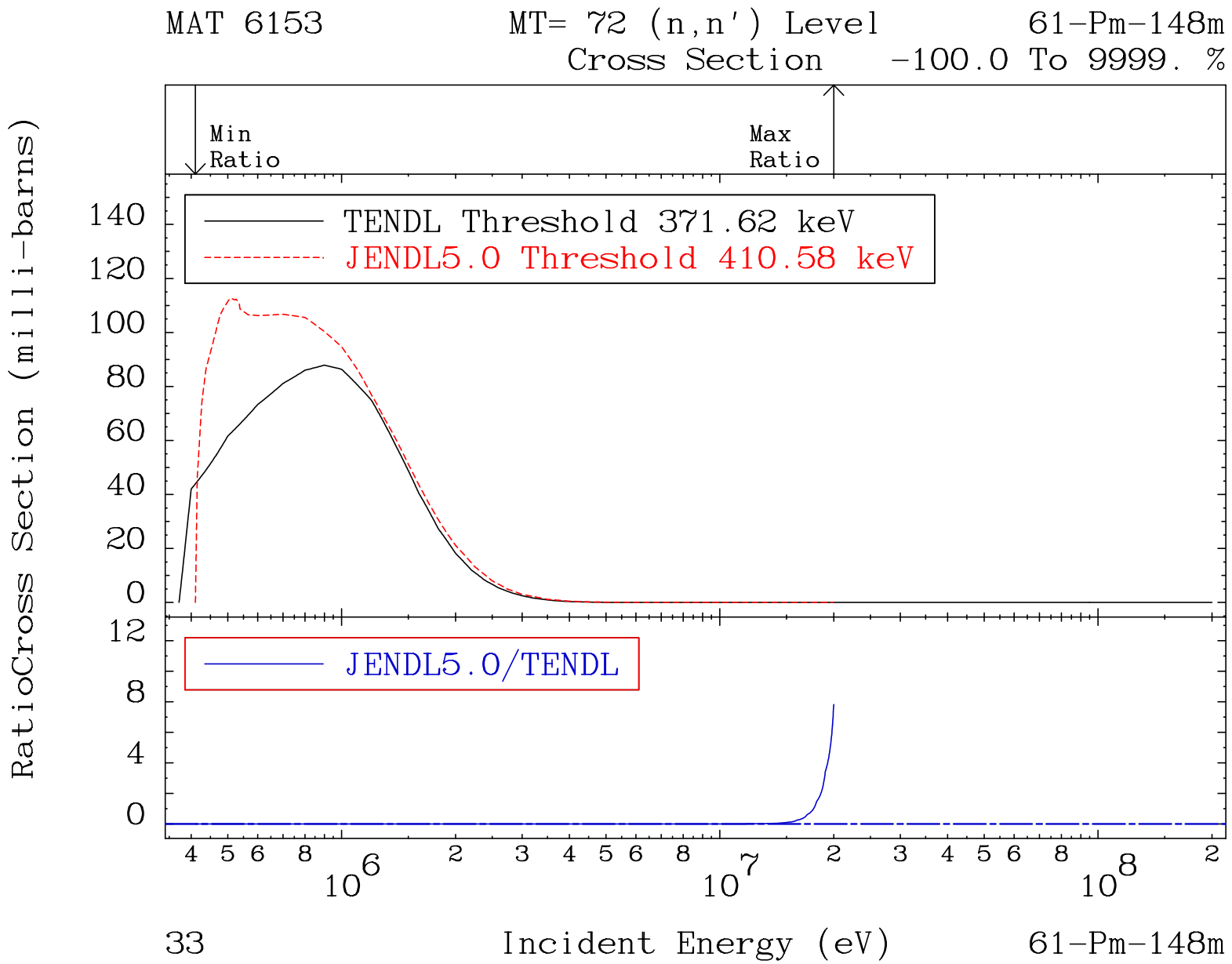

MAT 6153
Dpa total (eV-barns)
61-Pm-148m
Cross Section -57.30 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
61-Pm-148m

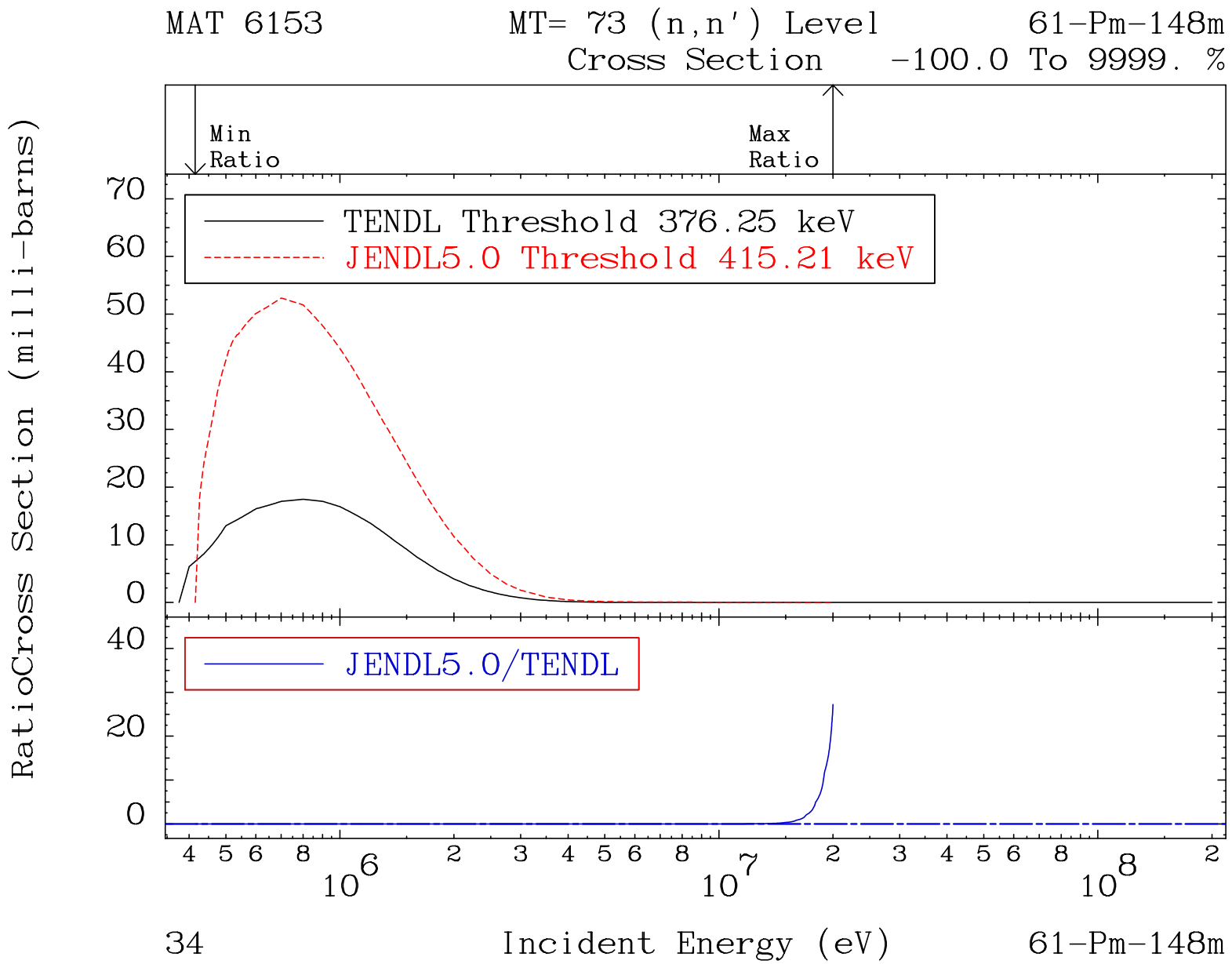

MAT 6153
Dpa elastic (mt2)
Cross Section
61-Pm-148m
-93.37 To 60.71 %
Max
Ratio
Min
Ratio
TENDL Threshold 900.00 eV
CENDL3.2 Threshold 1.0000 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
61-Pm-148m

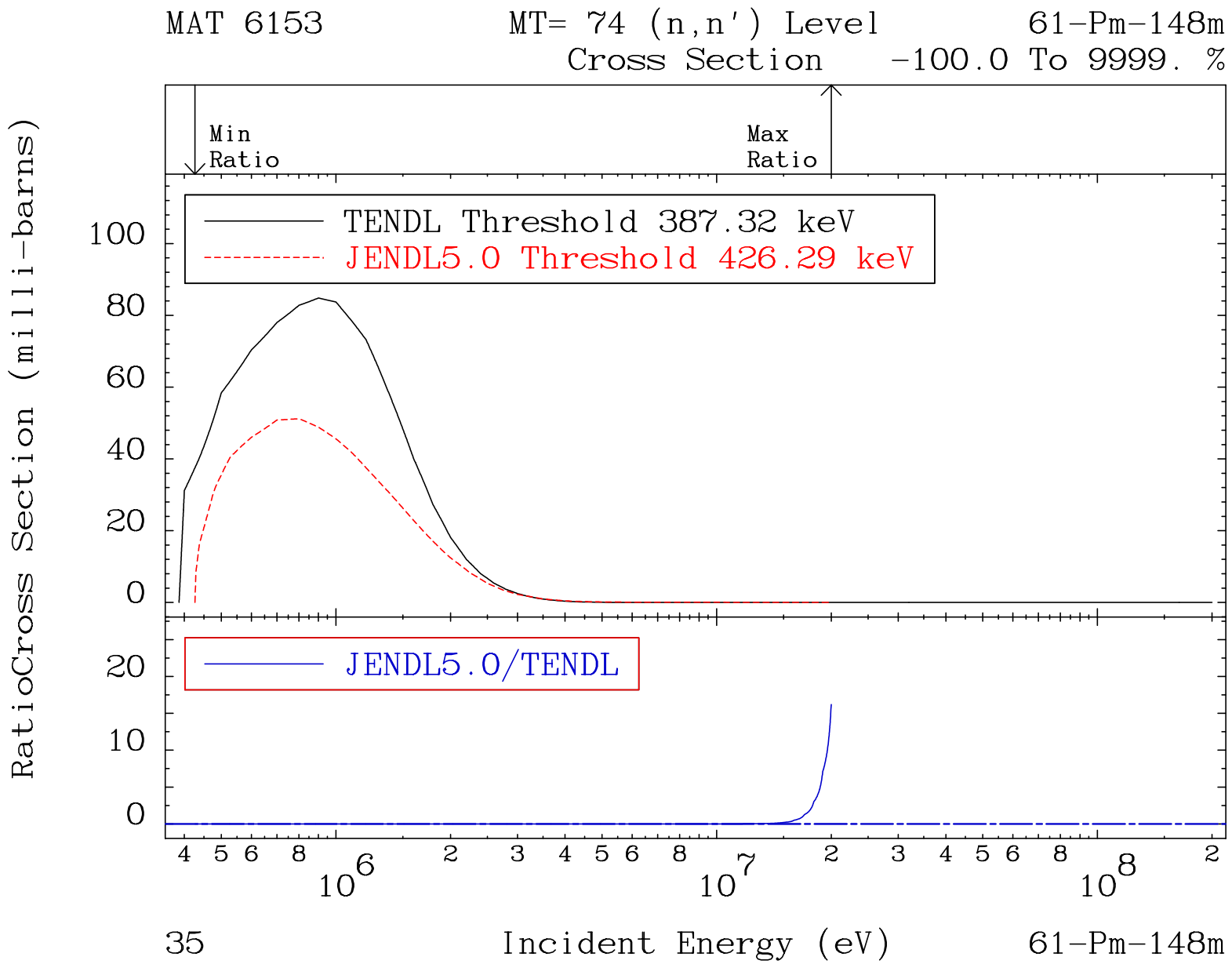

MAT 6153
Dpa inelastic (mt51-91)
61-Pm-148m
Cross Section
-99.98 To 9878. %
Max Ratio
Min Ratio
TENDL Threshold 42.330 eV
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
30
61-Pm-148m

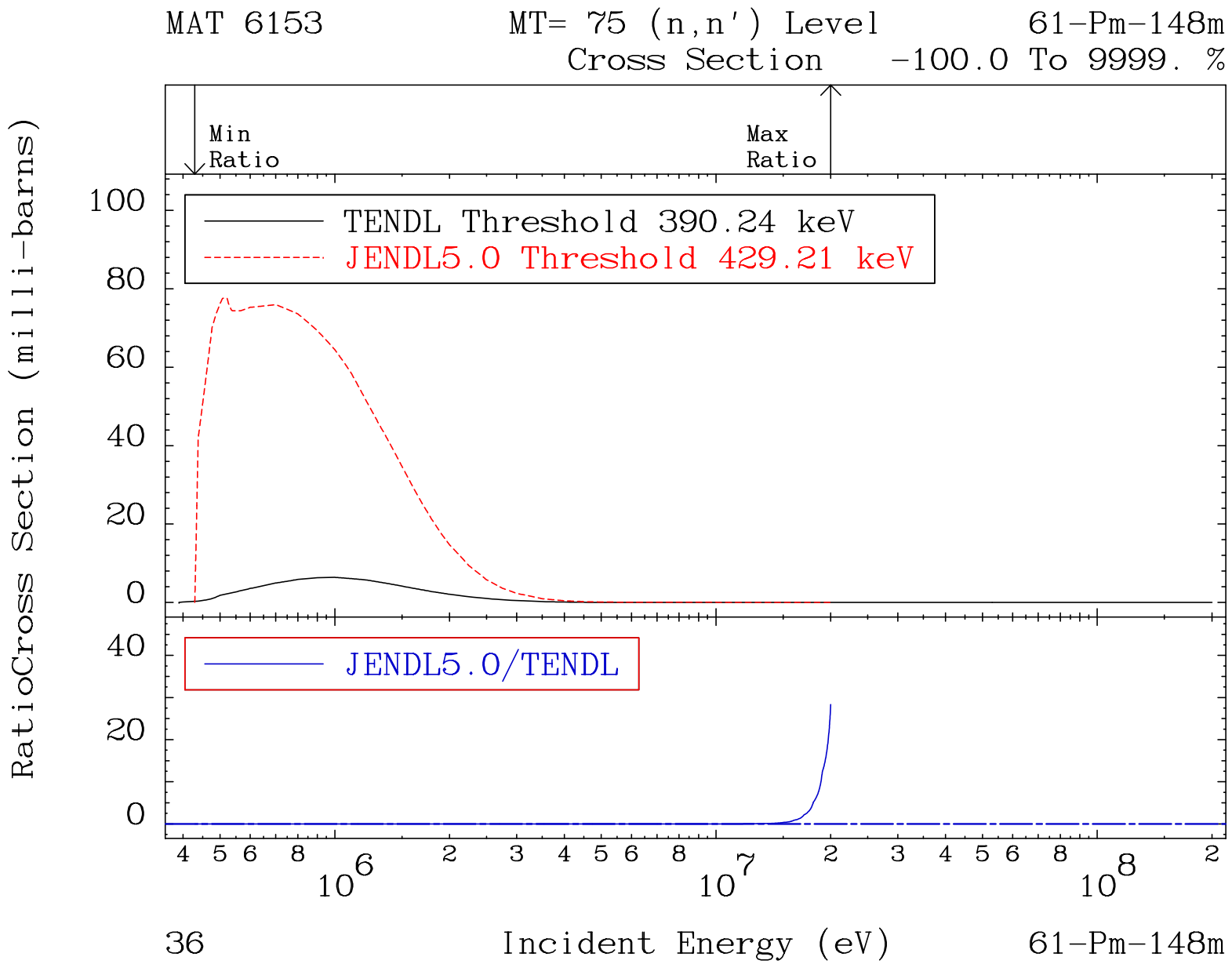

MAT 6153 Dpa disappearance (mt102 -120) 61-Pm-148m
Cross Section -60.72 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
61-Pm-148m

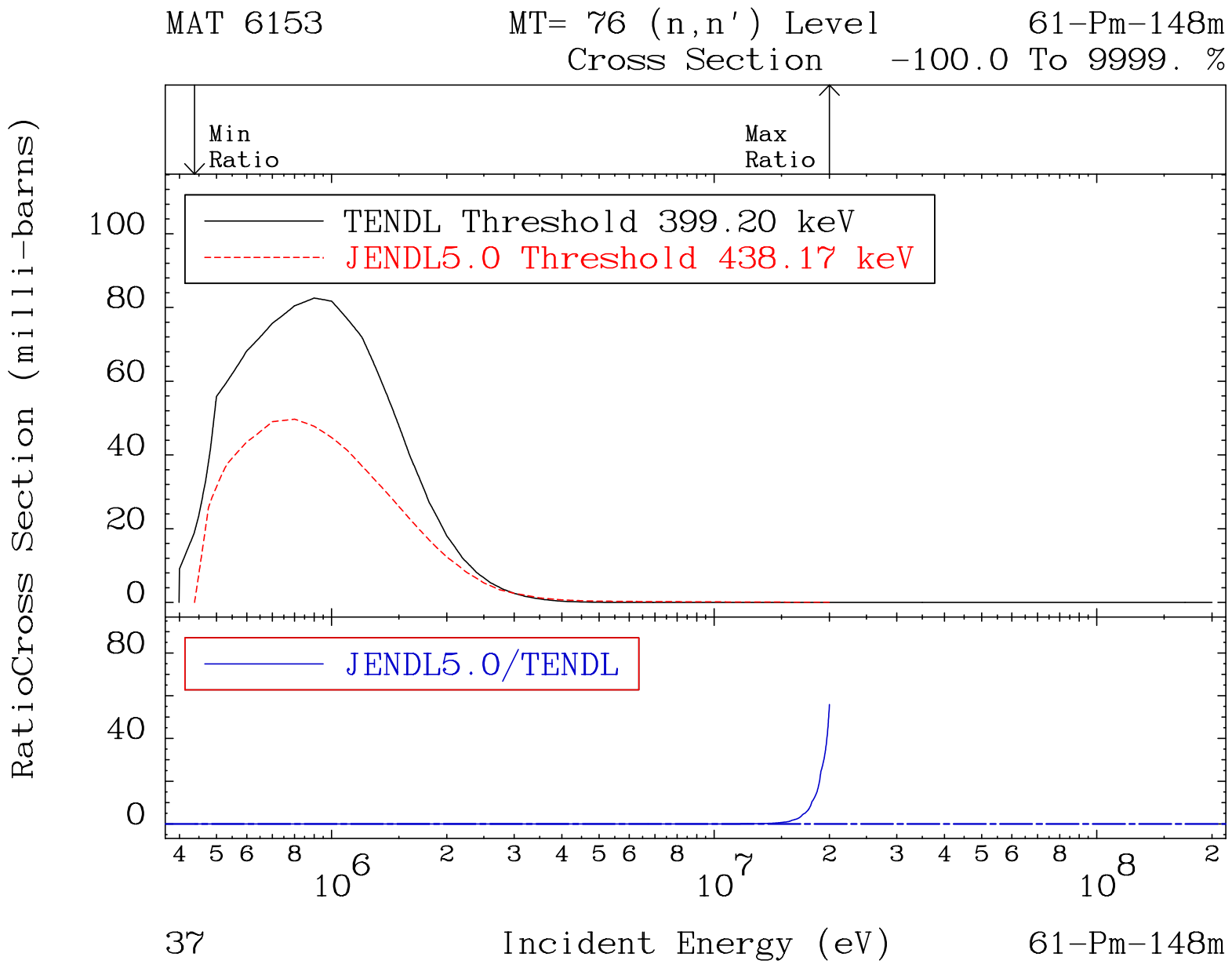

MAT 6153
MT= 71 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 369.30 keV
JENDL5.0 Threshold 408.27 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
32
61-Pm-148m

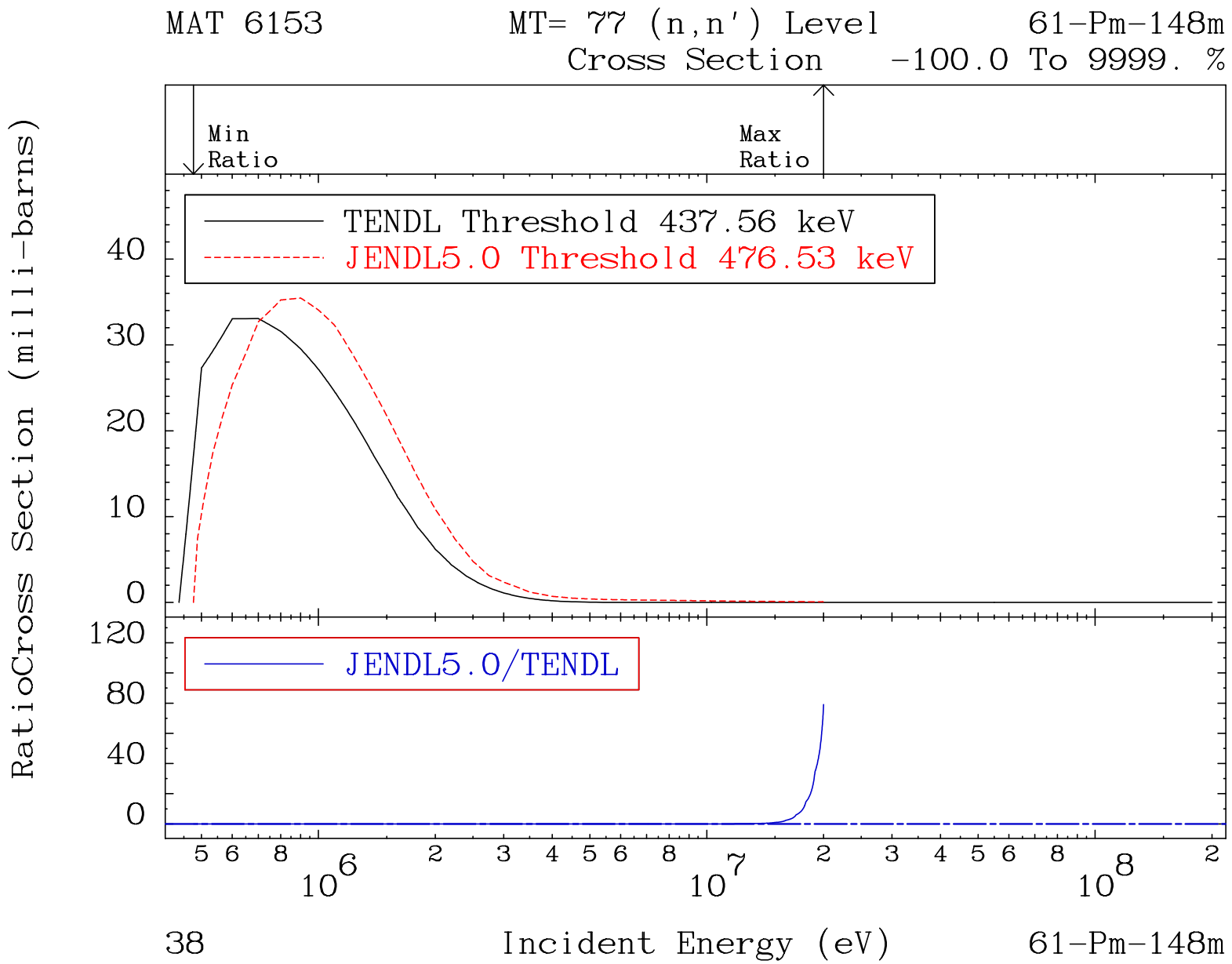

MAT 6153
MT= 72 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 371.62 keV
JENDL5.0 Threshold 410.58 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
33
61-Pm-148m

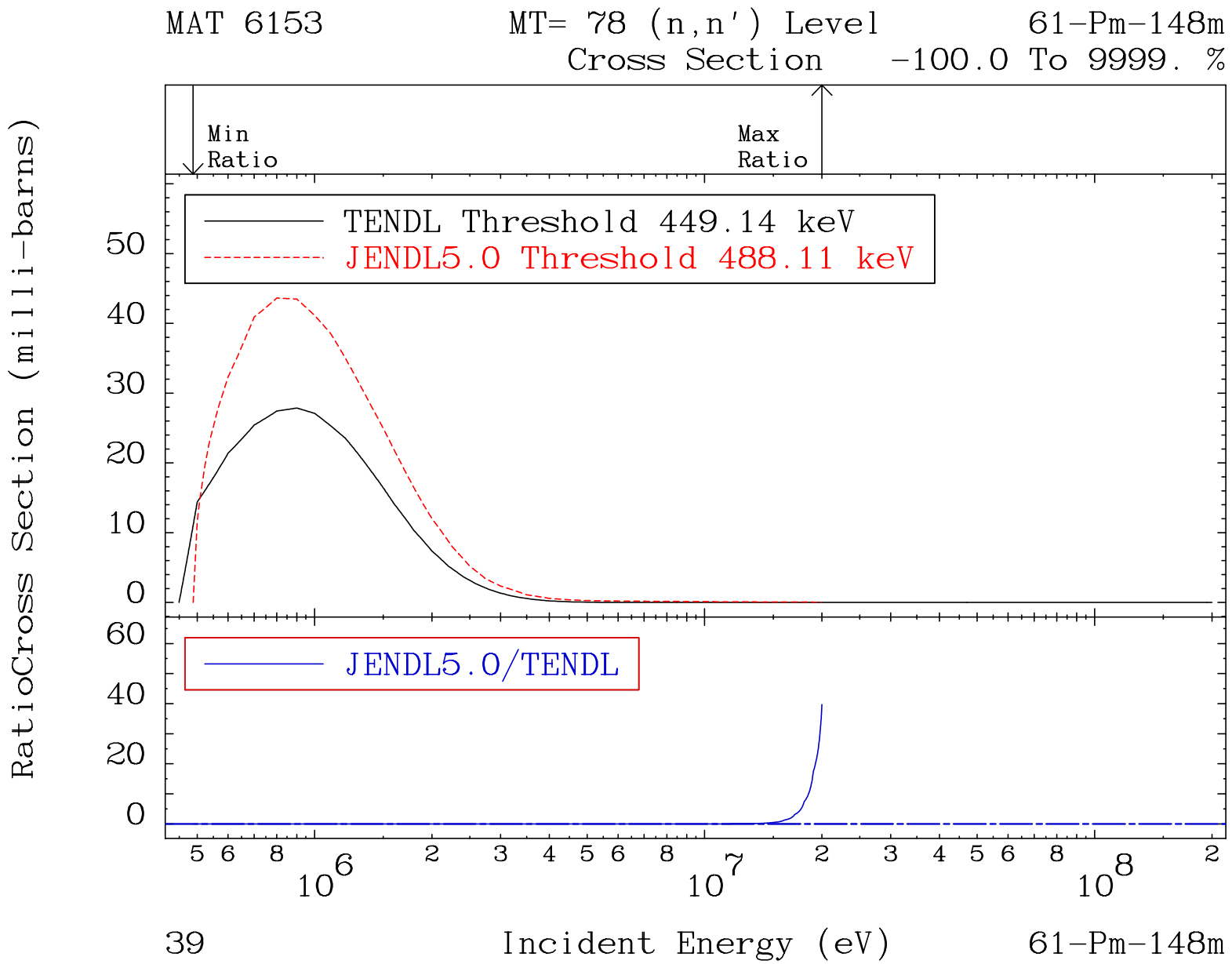

MAT 6153
MT= 73 (n,n') Level
61-Pm-148m
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 376.25 keV
JENDL5.0 Threshold 415.21 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
61-Pm-148m

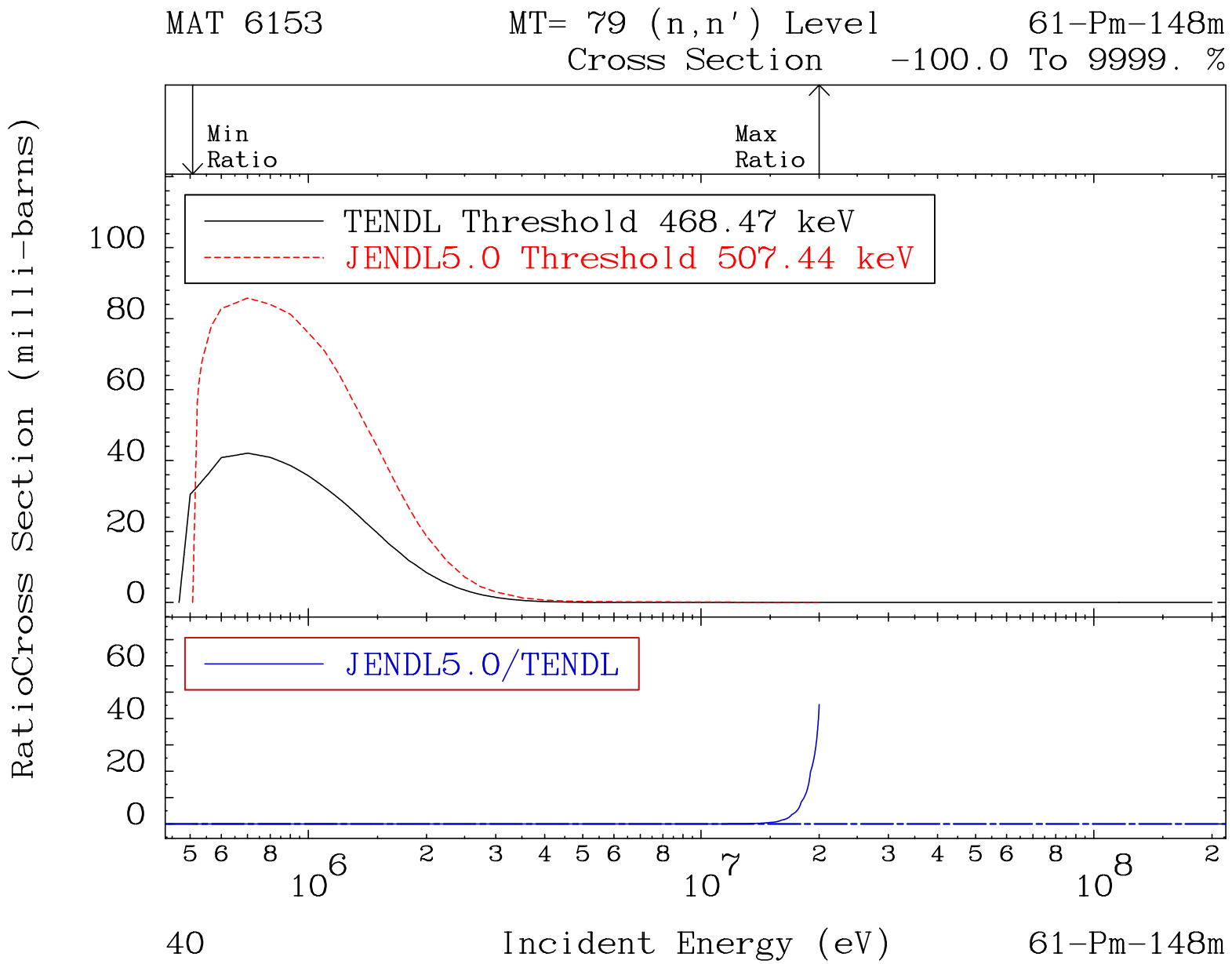

MAT 6153
MT= 74 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 387.32 keV
JENDL5.0 Threshold 426.29 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
20
10
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
35
61-Pm-148m

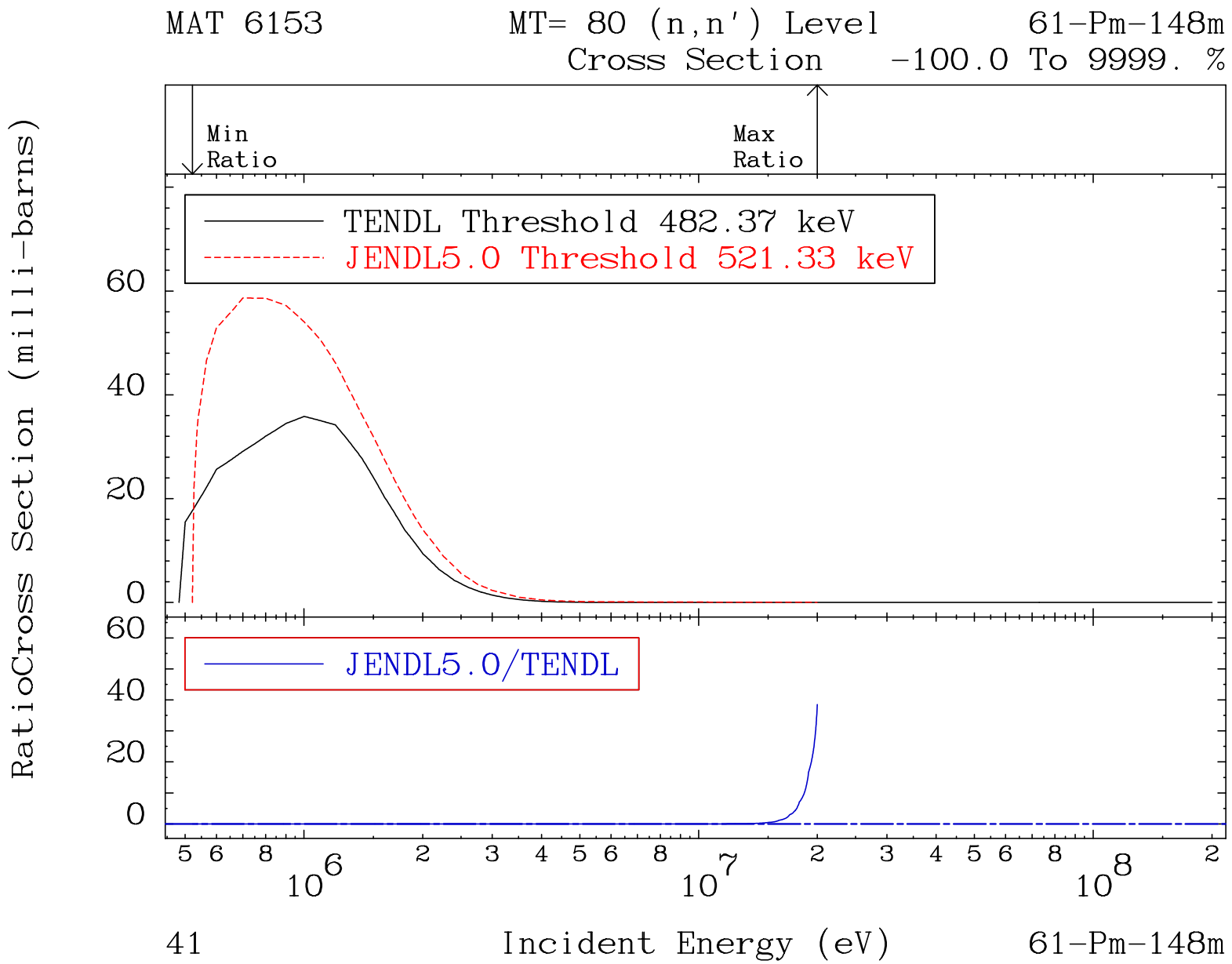

MAT 6153
MT= 75 (n,n') Level
61-Pm-148m
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 390.24 keV
JENDL5.0 Threshold 429.21 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
61-Pm-148m

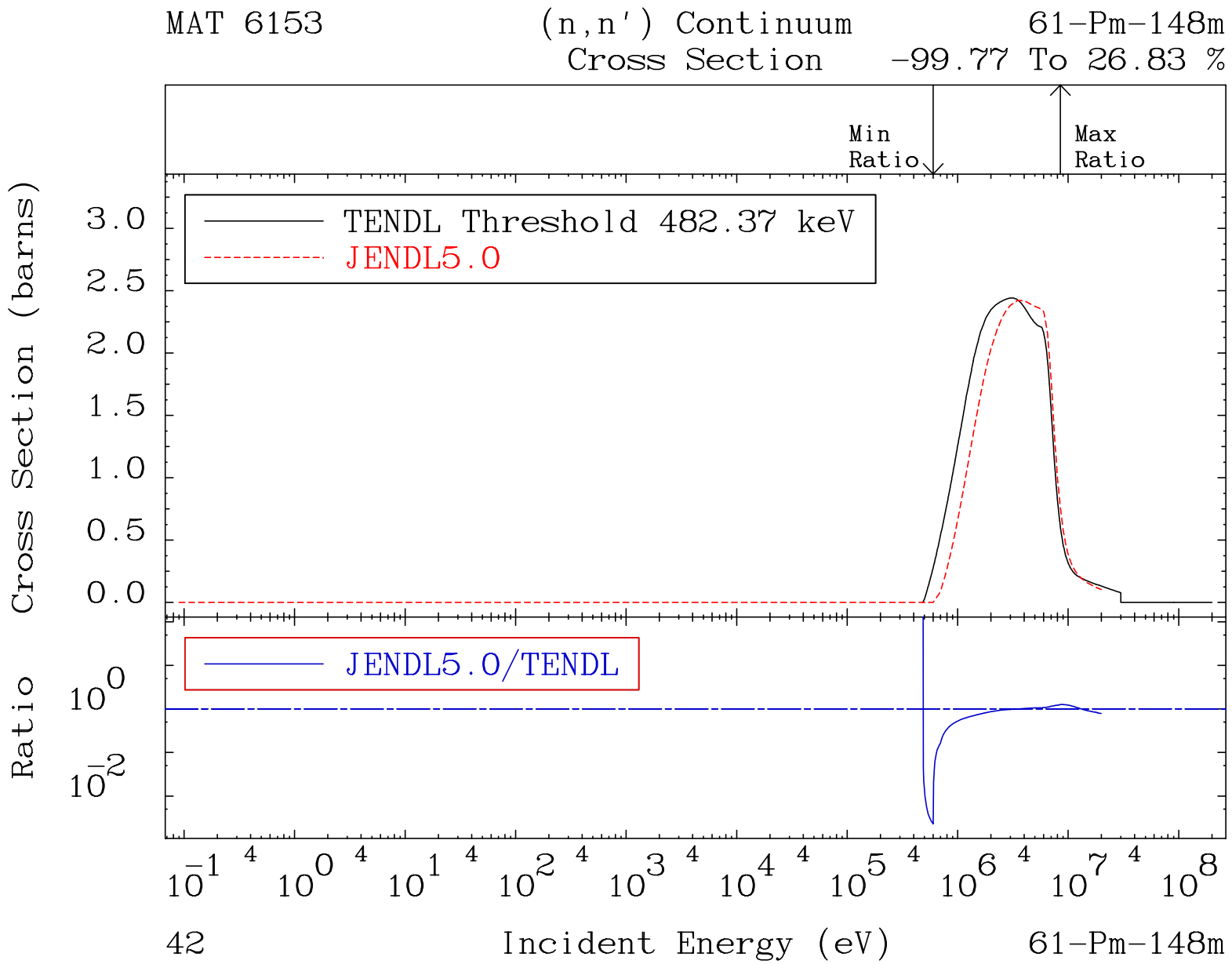

MAT 6153
MT= 76 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 399.20 keV
JENDL5.0 Threshold 438.17 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
61-Pm-148m

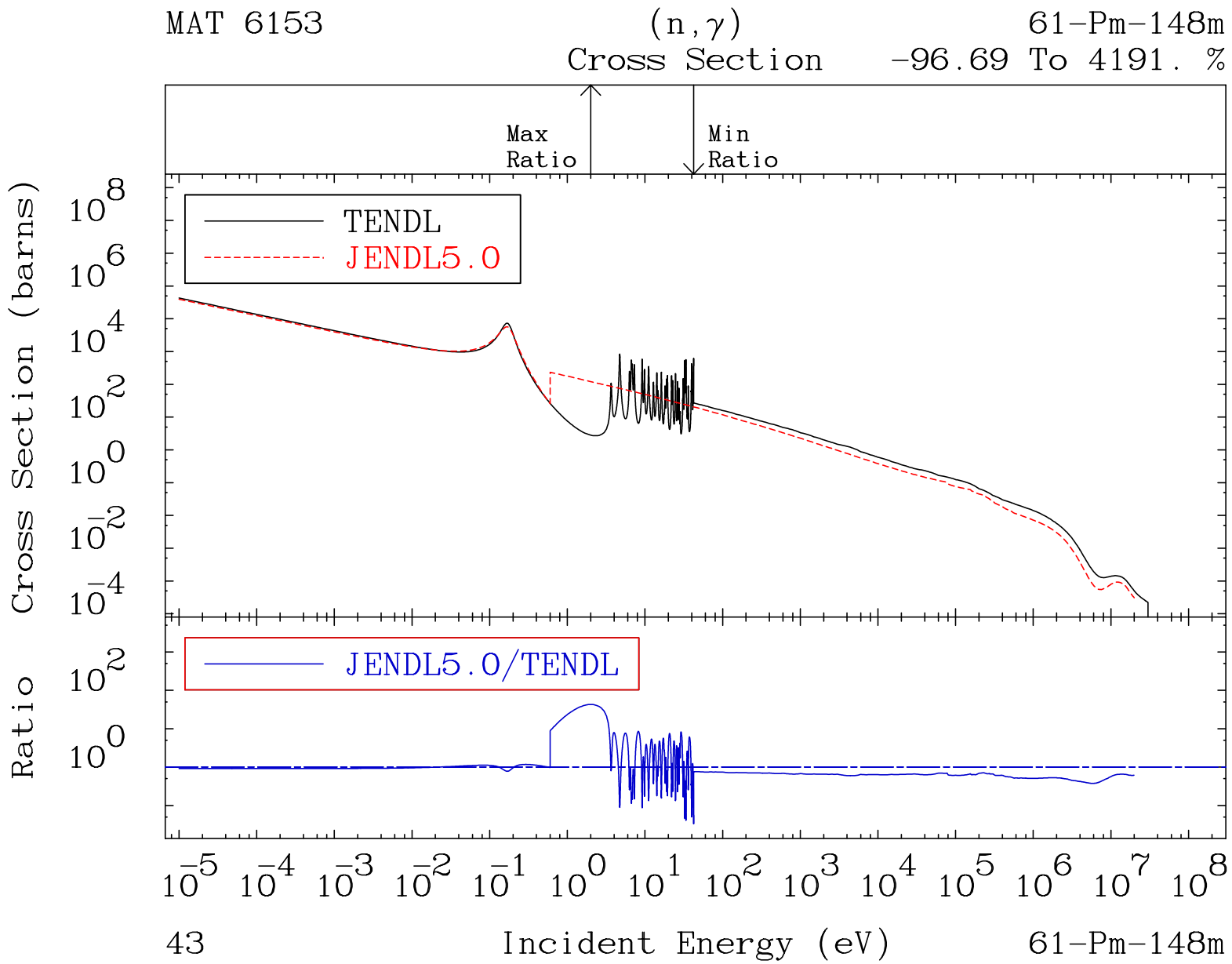

MAT 6153
MT= 77 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 437.56 keV
JENDL5.0 Threshold 476.53 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38
61-Pm-148m

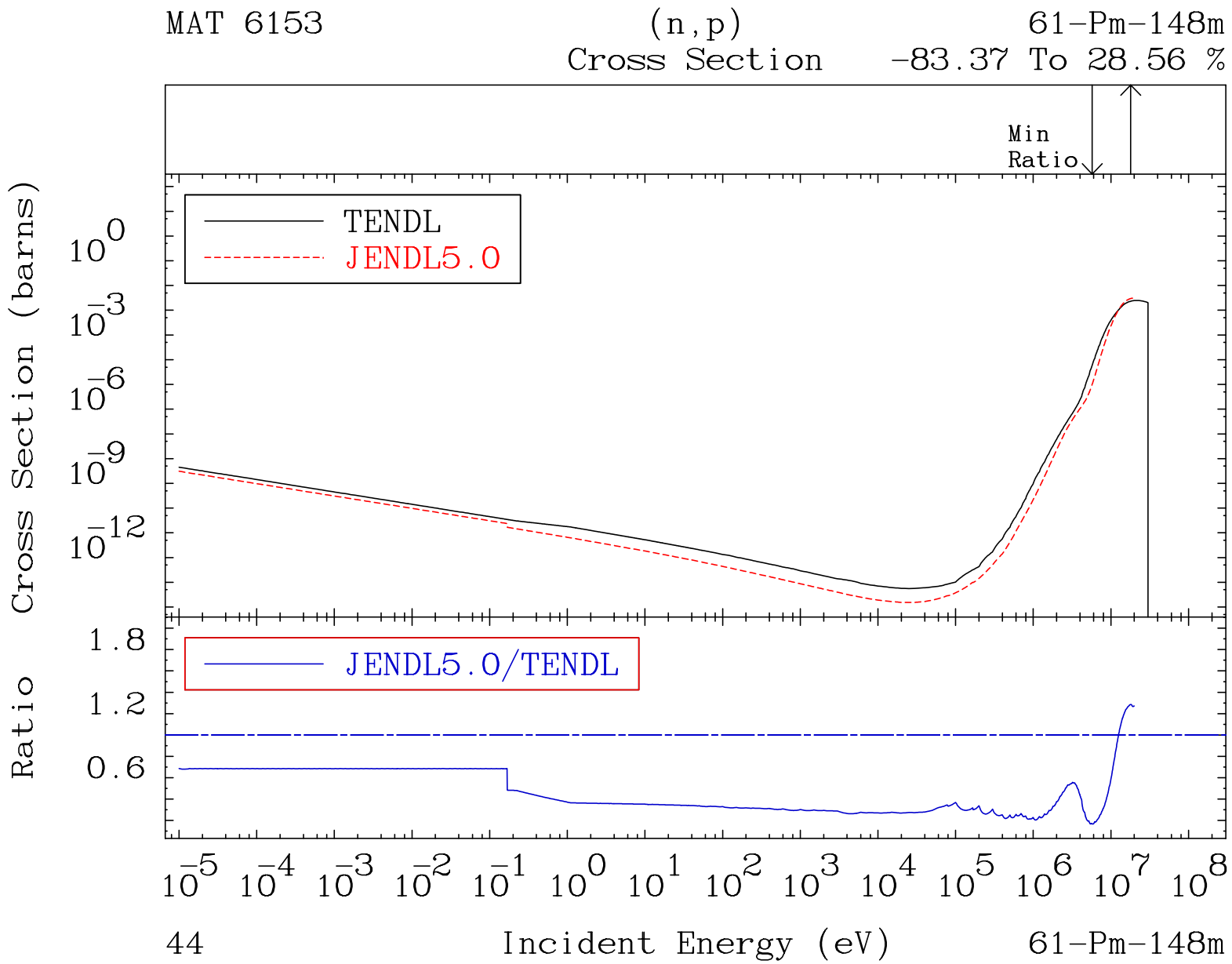

MAT 6153
MT= 78 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 449.14 keV
JENDL5.0 Threshold 488.11 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
39
61-Pm-148m

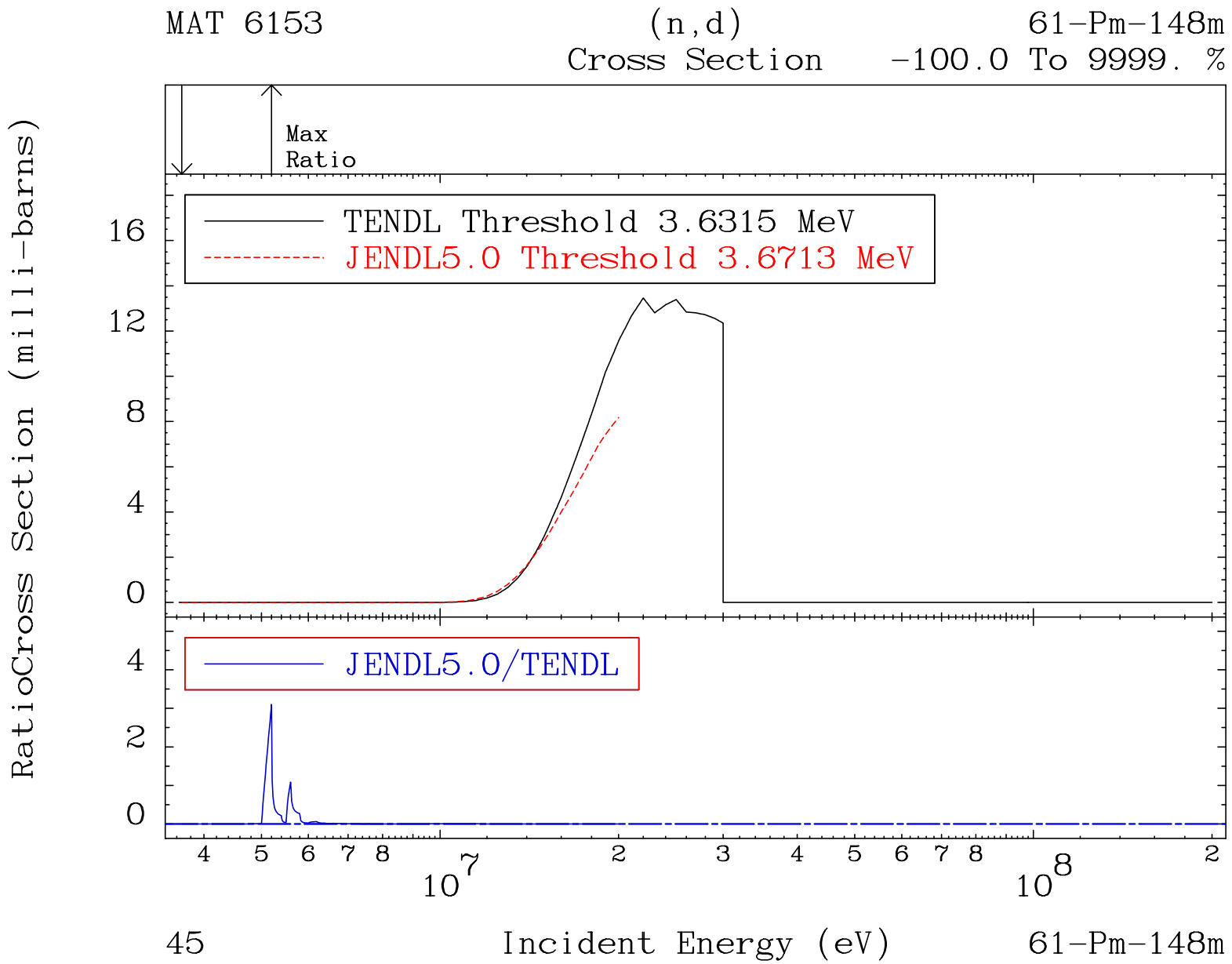

MAT 6153
MT= 79 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 468.47 keV
JENDL5.0 Threshold 507.44 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
40
61-Pm-148m

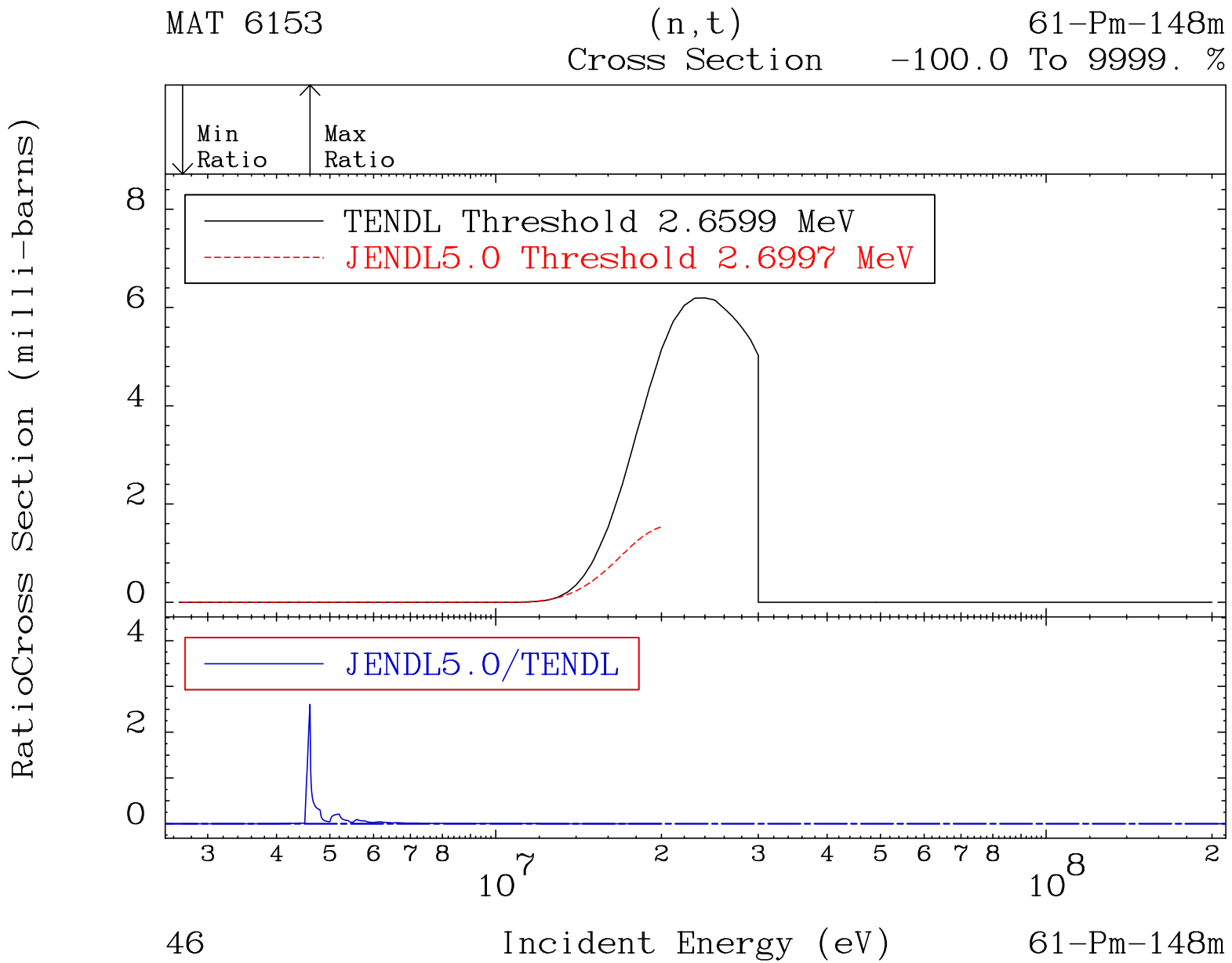

MAT 6153
MT= 80 (n,n') Level
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 482.37 keV
JENDL5.0 Threshold 521.33 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
41
Incident Energy (eV)
61-Pm-148m

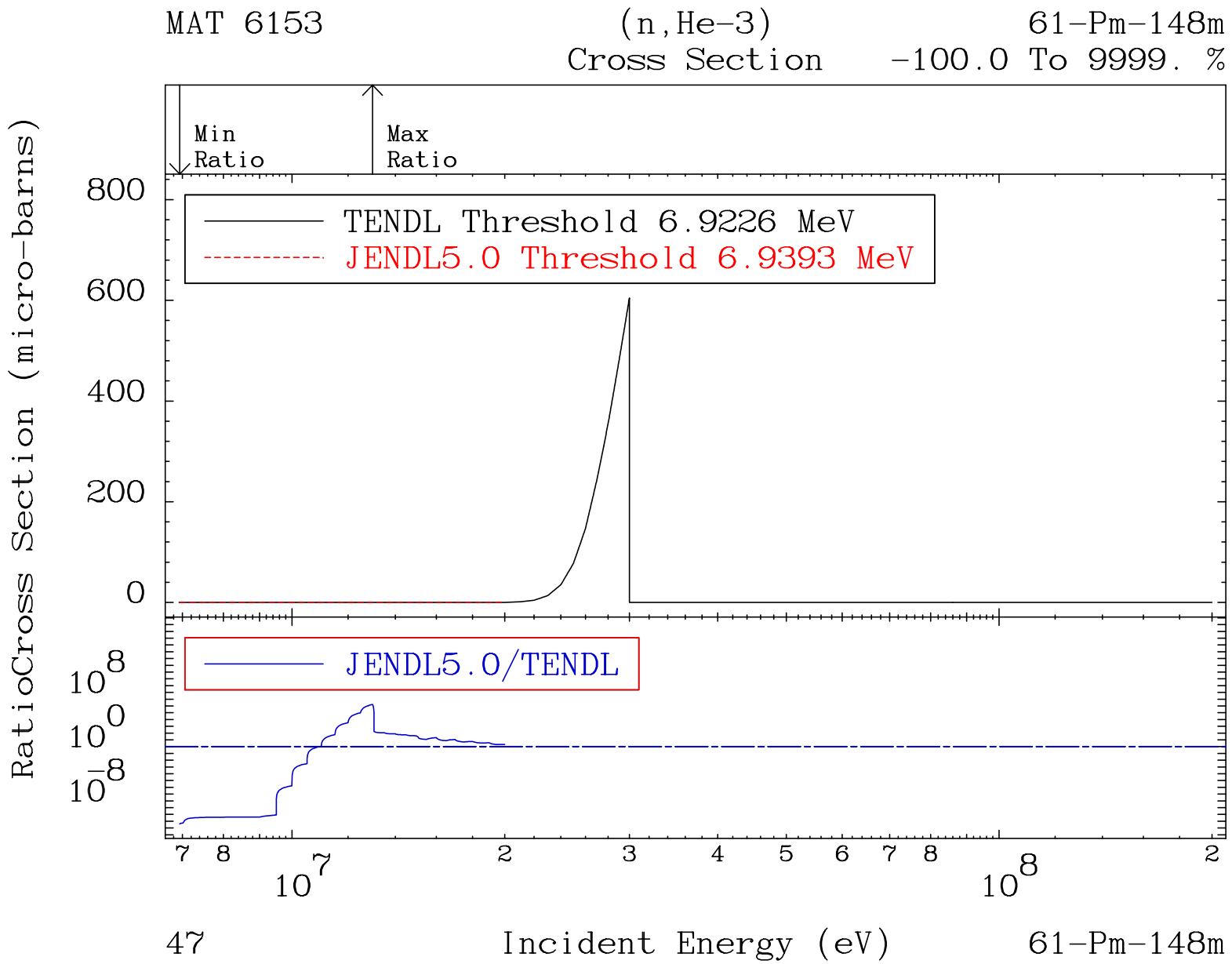

MAT 6153
(n,n') Continuum
Cross Section
61-Pm-148m
-99.77 To 26.83 %
Min Ratio
Max Ratio
TENDL Threshold 482.37 keV
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
61-Pm-148m

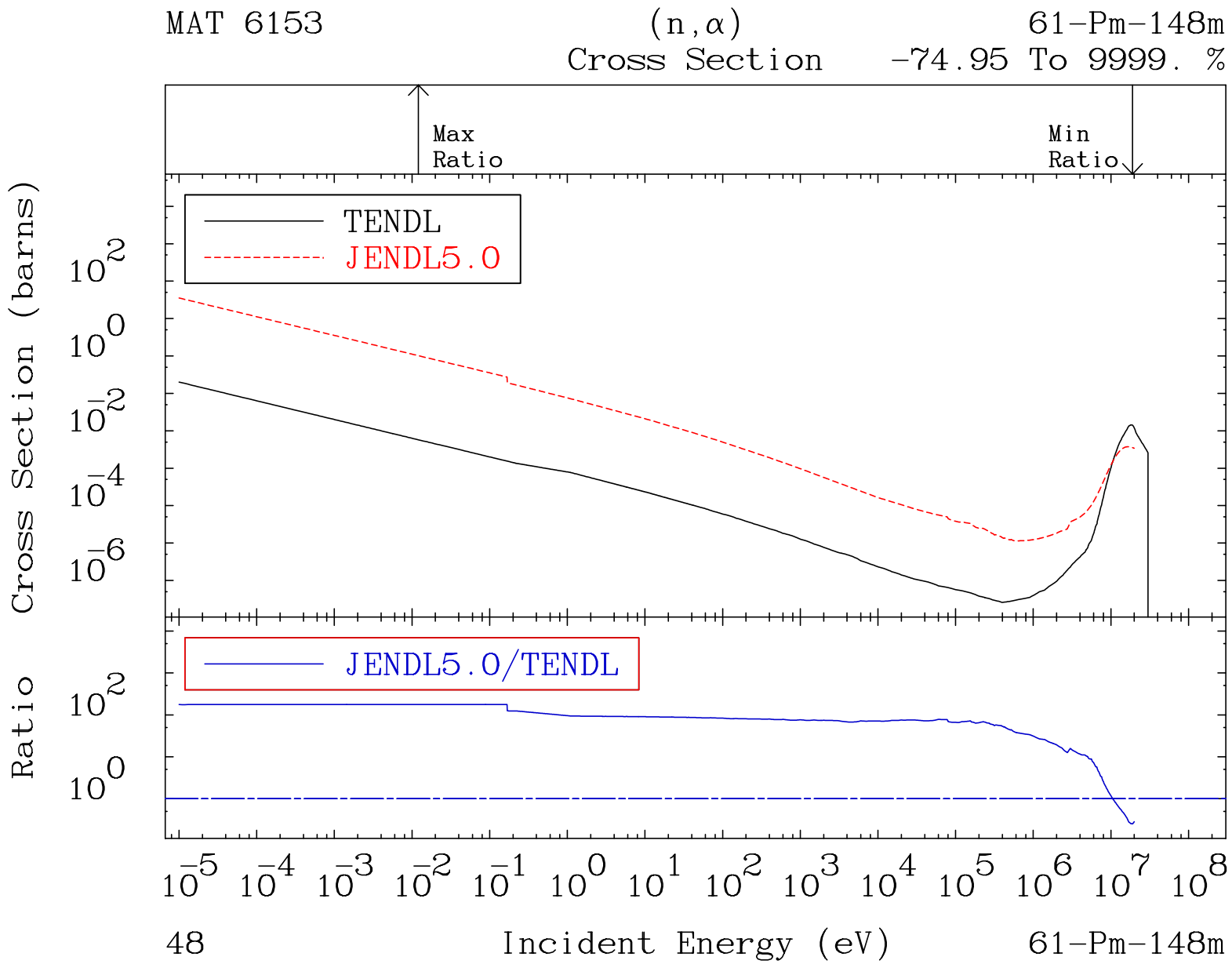

MAT 6153
(n,γ)
Cross Section
61-Pm-148m
-96.69 To 4191. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
43
61-Pm-148m

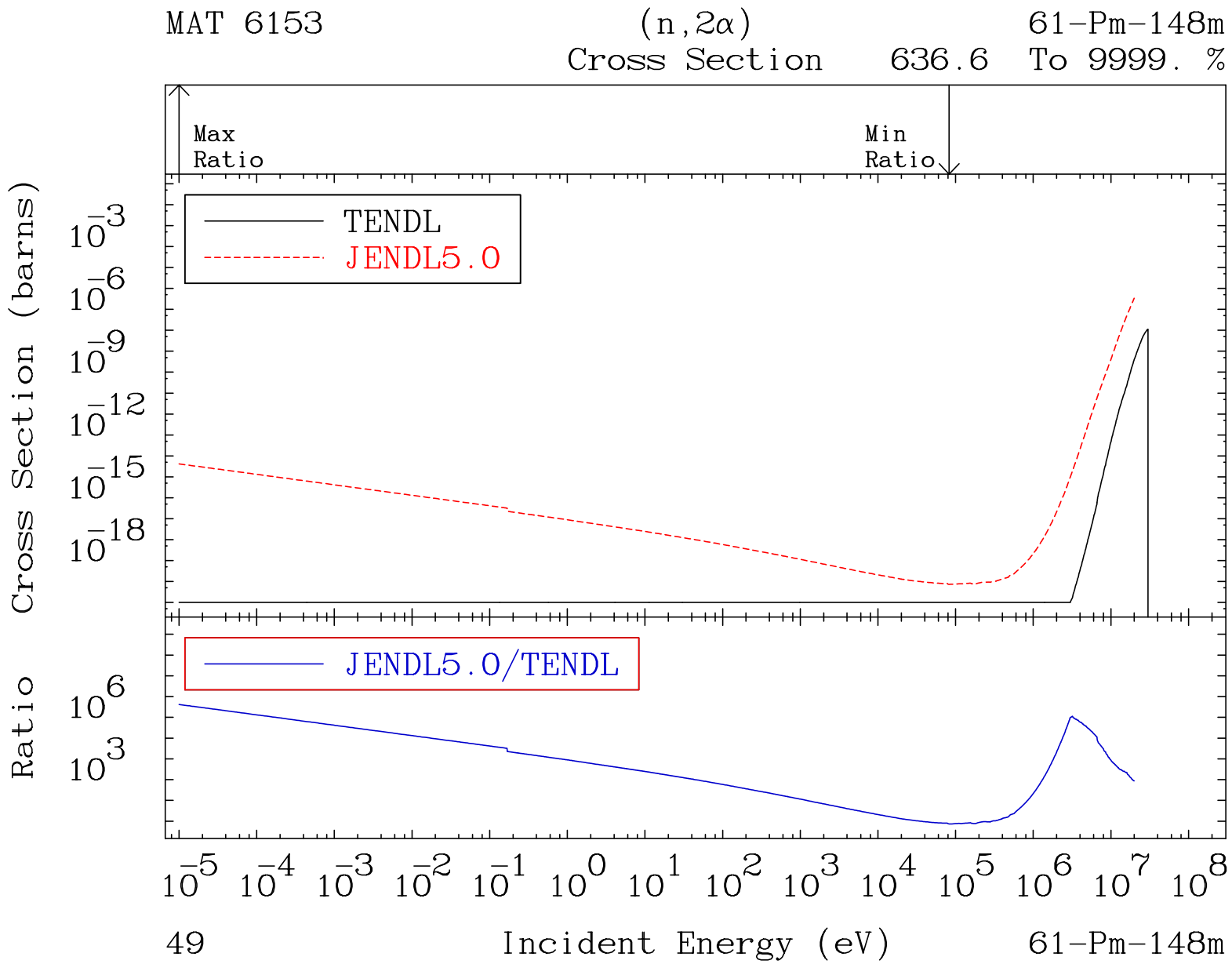

MAT 6153
(n,p)
Cross Section
61-Pm-148m
-83.37 To 28.56 %
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
61-Pm-148m

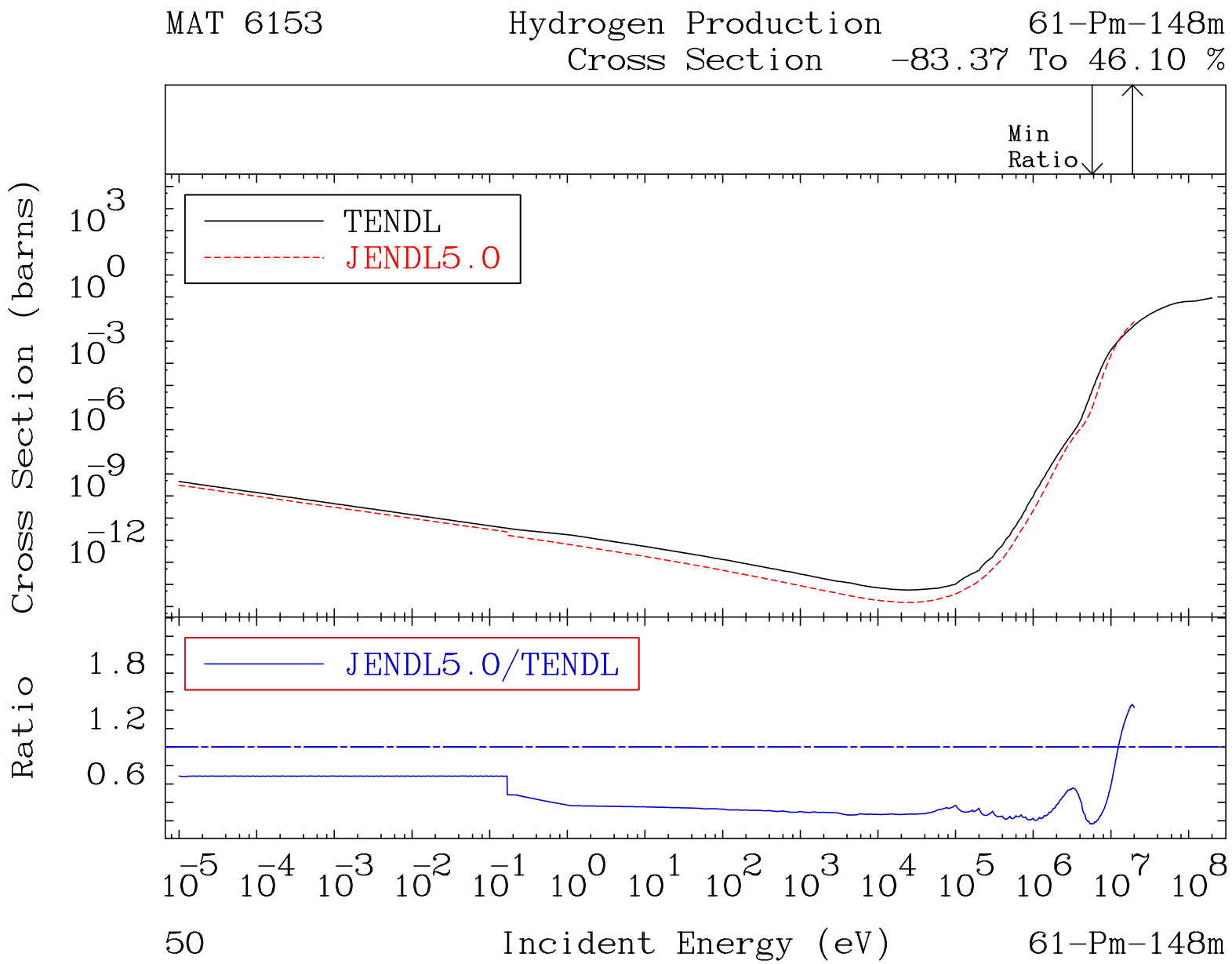

MAT 6153
(n,d)
61-Pm-148m
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 3.6315 MeV
JENDL5.0 Threshold 3.6713 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
61-Pm-148m

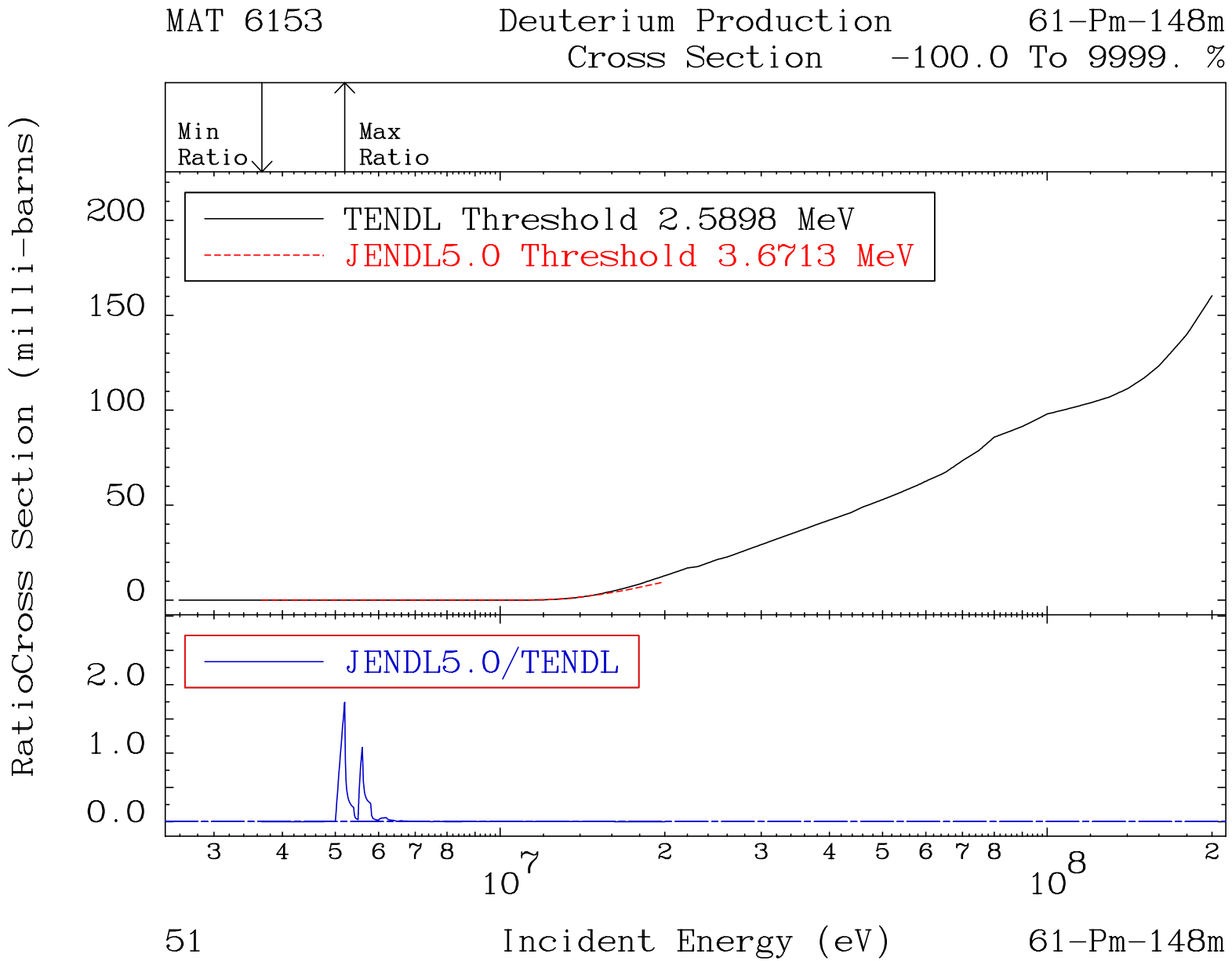

MAT 6153
(n,t)
Cross Section
61-Pm-148m
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6599 MeV
JENDL5.0 Threshold 2.6997 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
46
61-Pm-148m

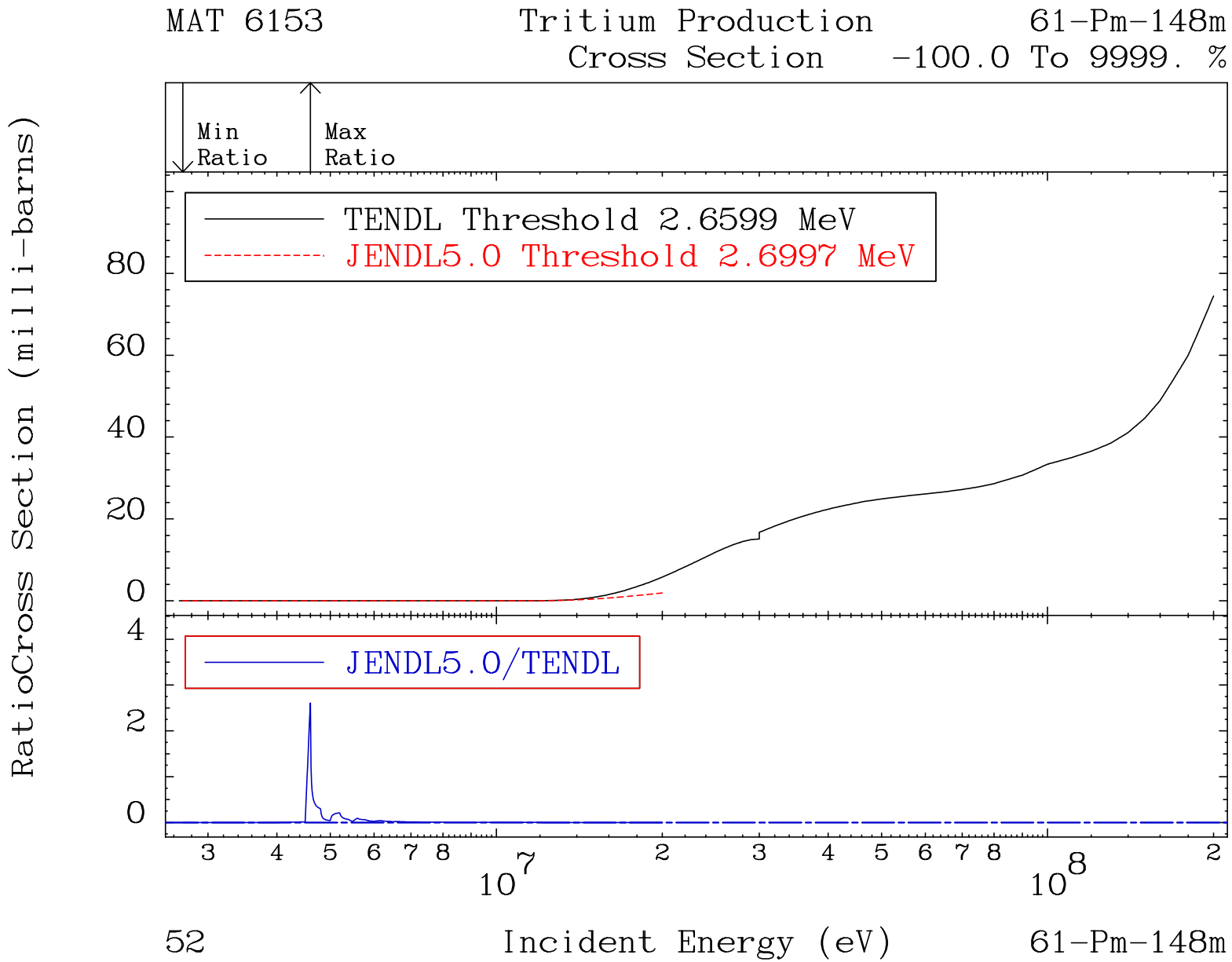

MAT 6153
(n,He-3)
Cross Section
61-Pm-148m
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.9226 MeV
JENDL5.0 Threshold 6.9393 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
10^8
10^0
10^-8
7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
61-Pm-148m

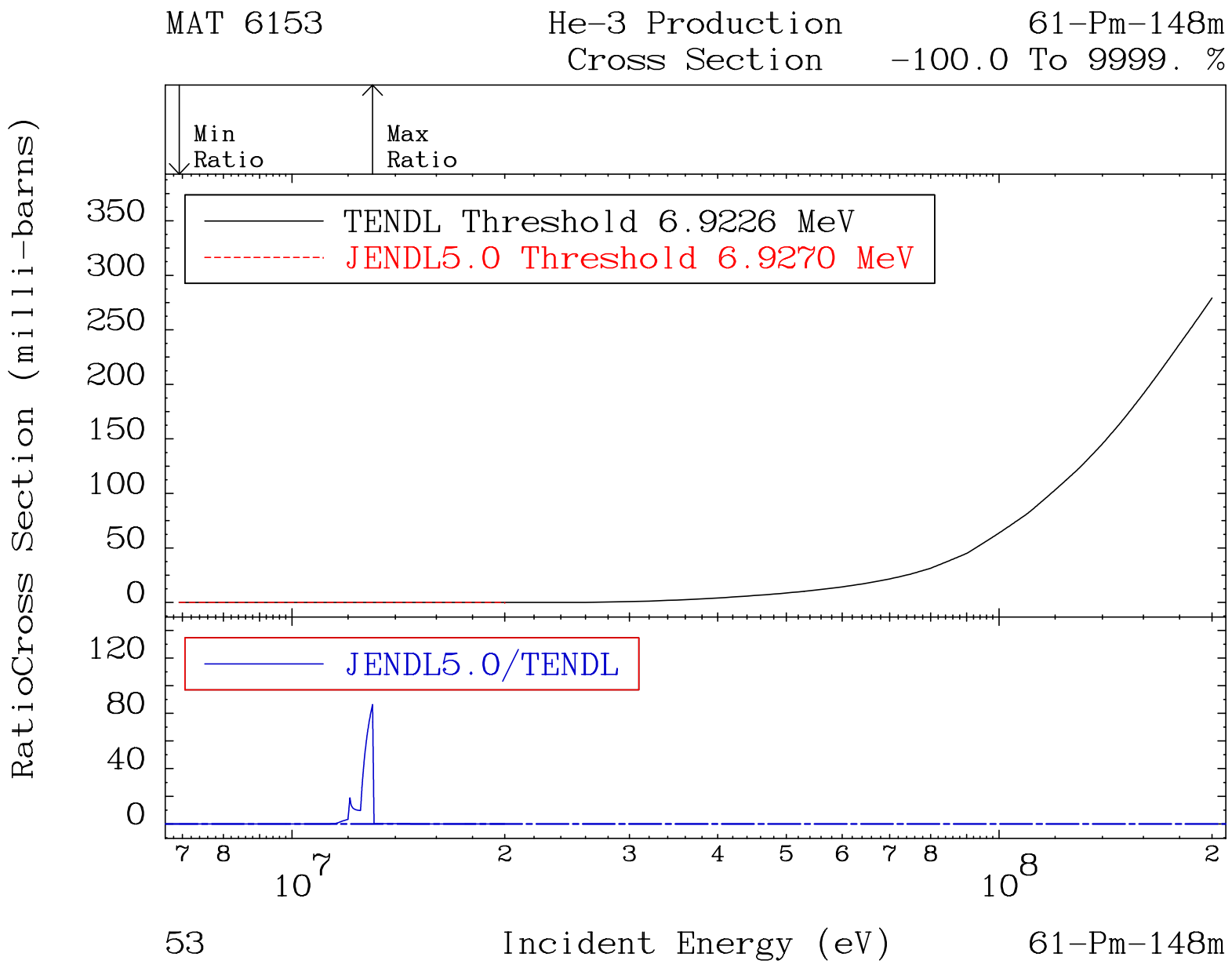

MAT 6153
(n,α)
Cross Section
61-Pm-148m
-74.95 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
61-Pm-148m

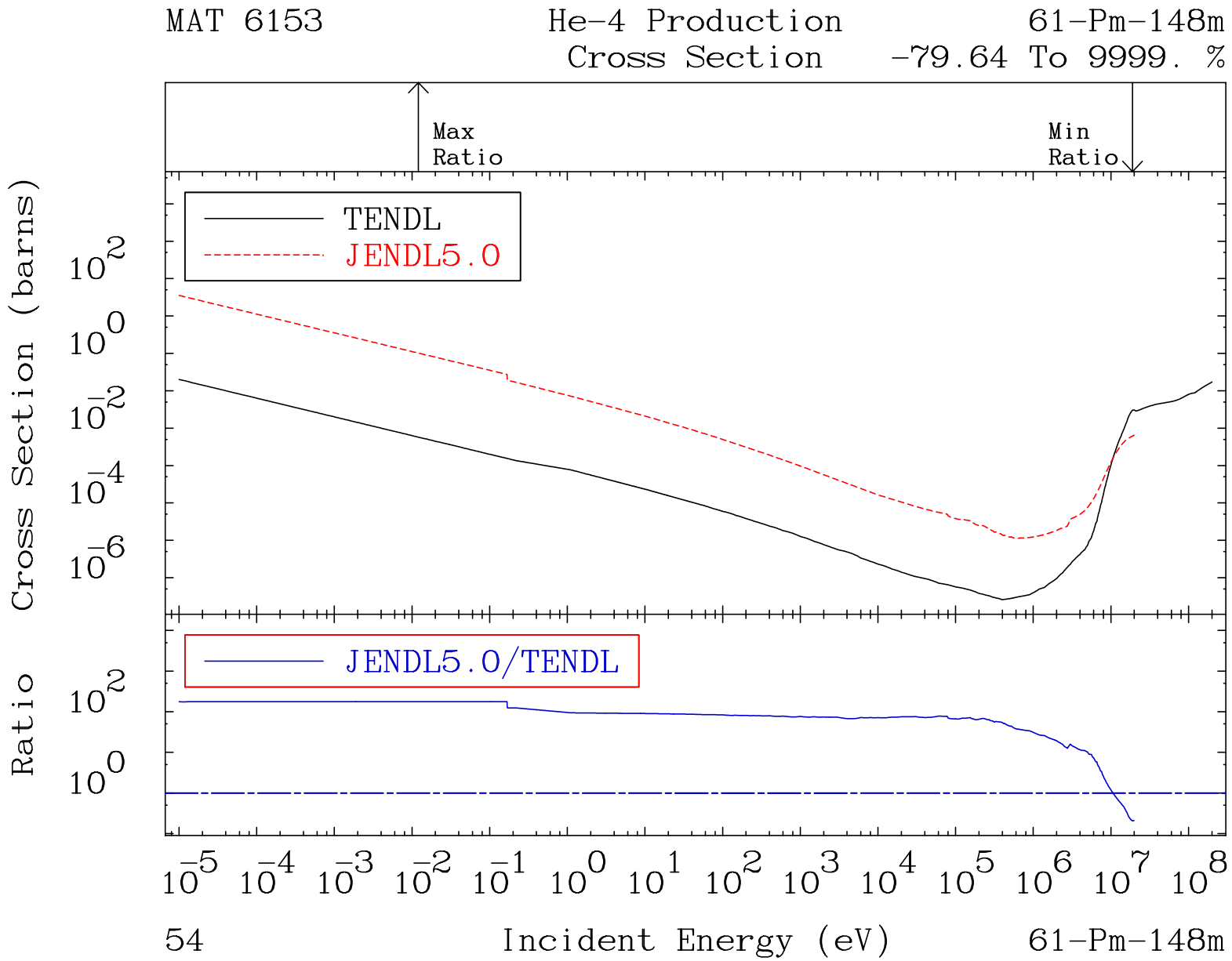

MAT 6153
(n,2α)
61-Pm-148m
Cross Section 636.6 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
49
61-Pm-148m

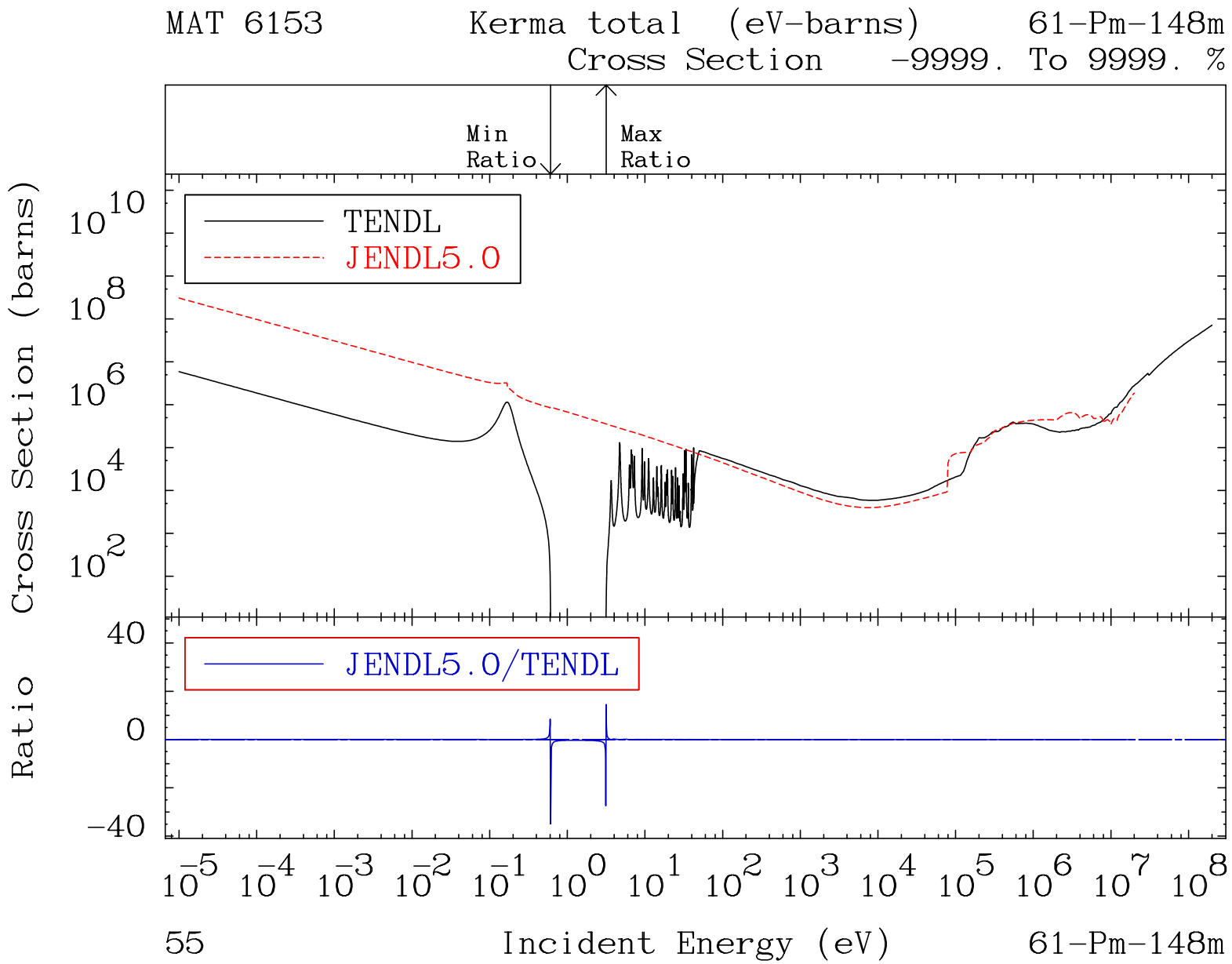

MAT 6153
Hydrogen Production
61-Pm-148m
Cross Section
-83.37 To 46.10 %
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^3
10^0
10^-3
10^-6
10^-9
10^-12
JENDL5.0/TENDL
Ratio
1.8
1.2
0.6
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
50
61-Pm-148m

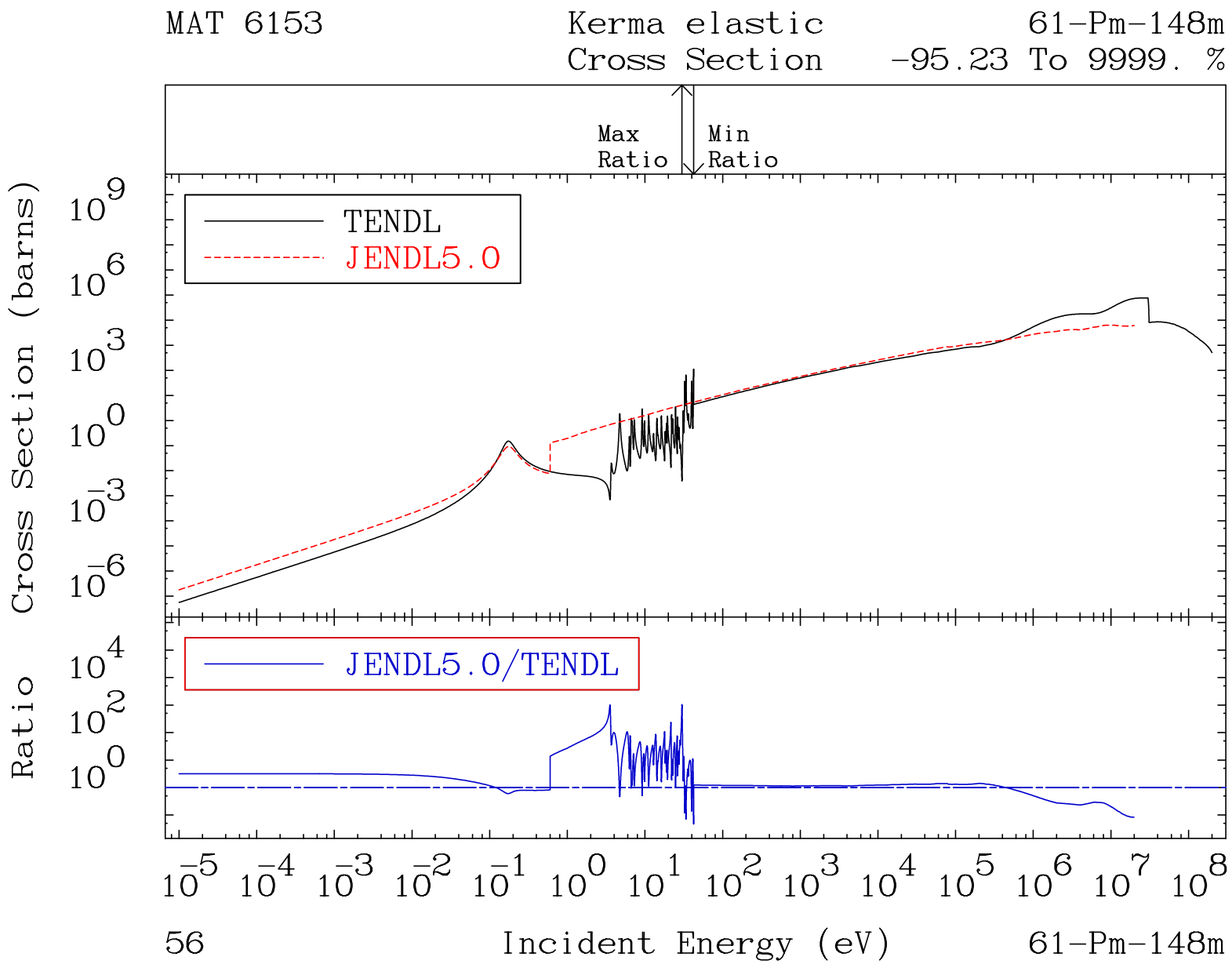

MAT 6153
Deuterium Production
61-Pm-148m
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5898 MeV
JENDL5.0 Threshold 3.6713 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
51
Incident Energy (eV)
61-Pm-148m

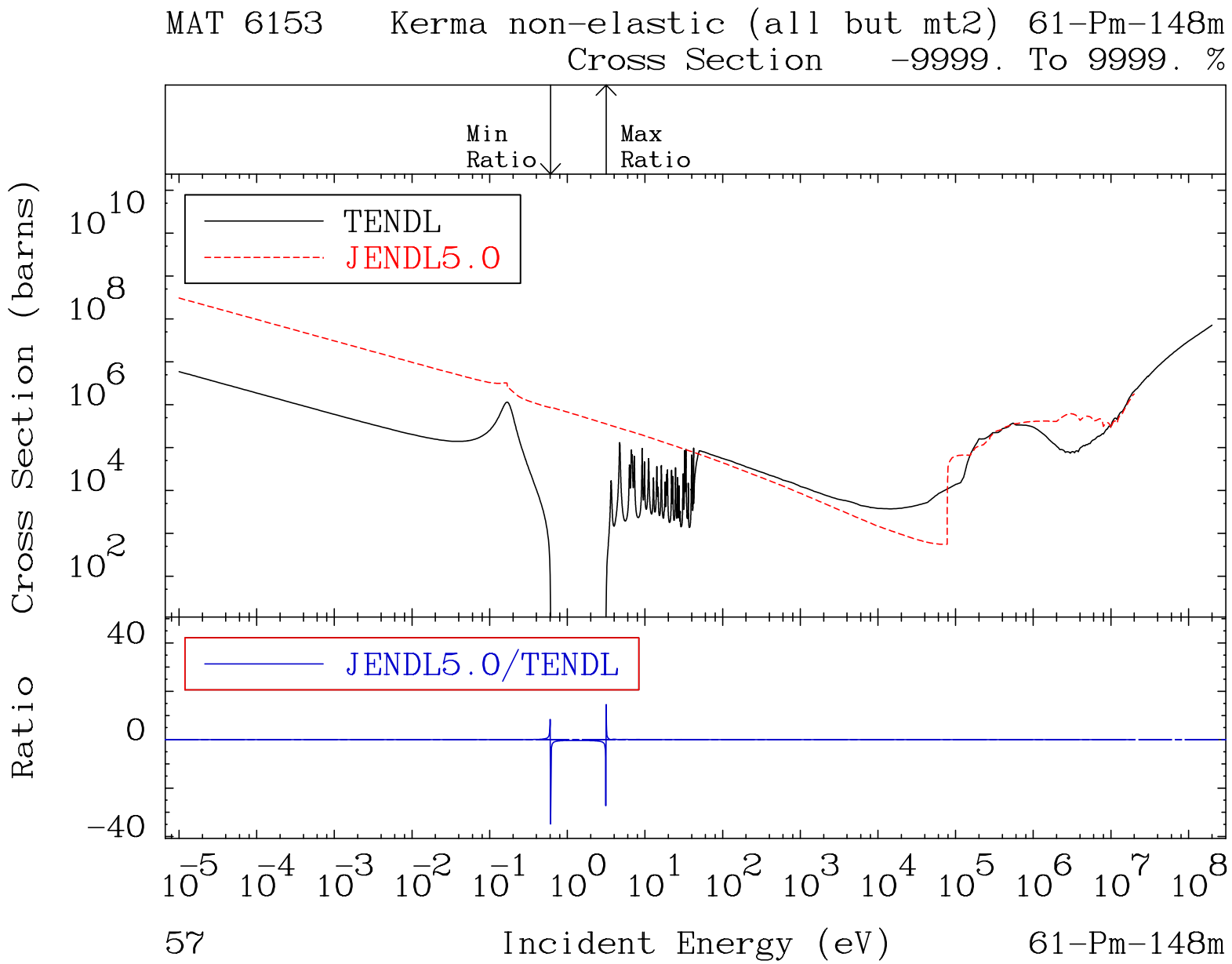

MAT 6153
Tritium Production
61-Pm-148m
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.6599 MeV
JENDL5.0 Threshold 2.6997 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
52
Incident Energy (eV)
61-Pm-148m

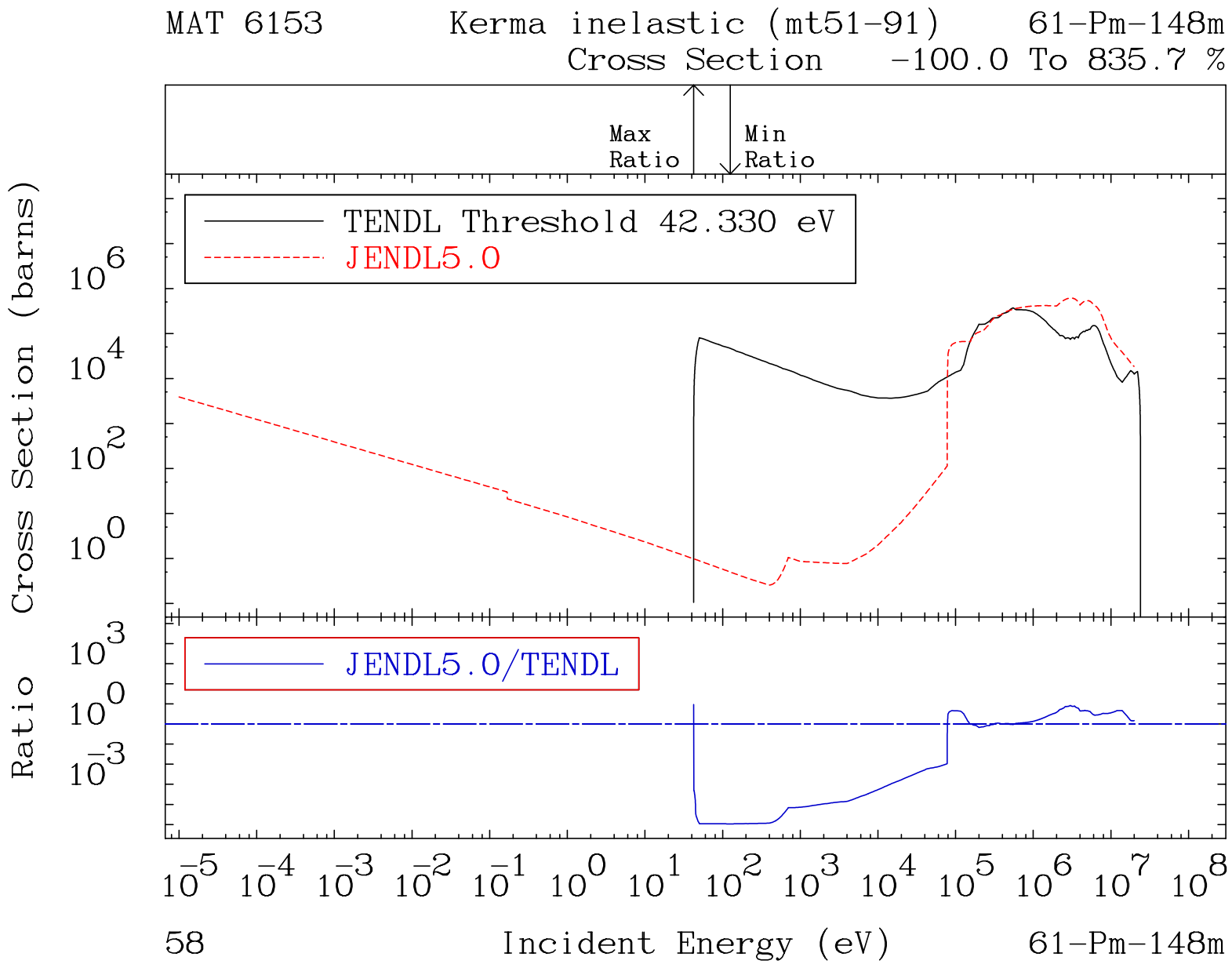

MAT 6153
He-3 Production
Cross Section
61-Pm-148m
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.9226 MeV
JENDL5.0 Threshold 6.9270 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
120
80
40
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
53
Incident Energy (eV)
61-Pm-148m

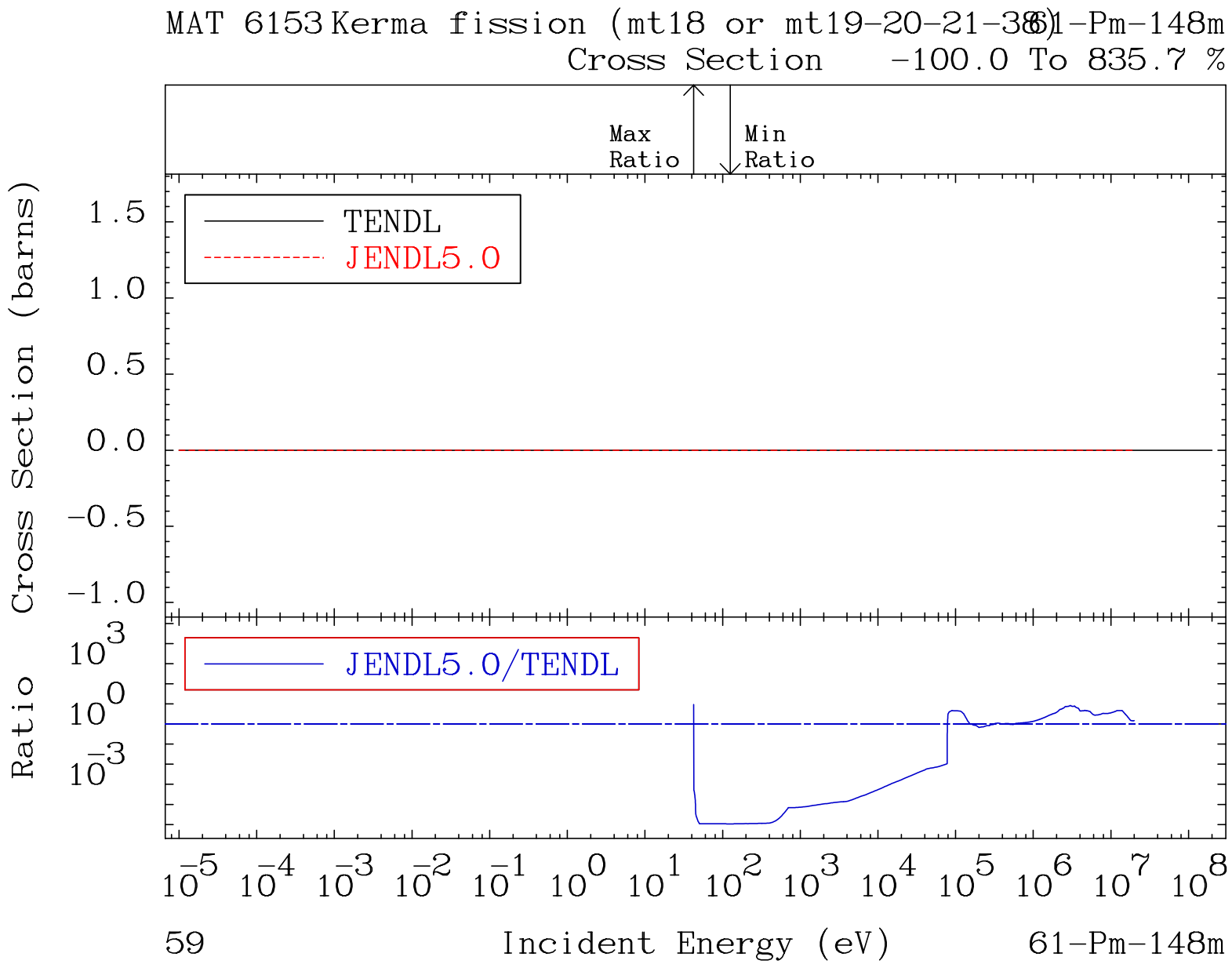

MAT 6153
He-4 Production
Cross Section
61-Pm-148m
-79.64 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
61-Pm-148m

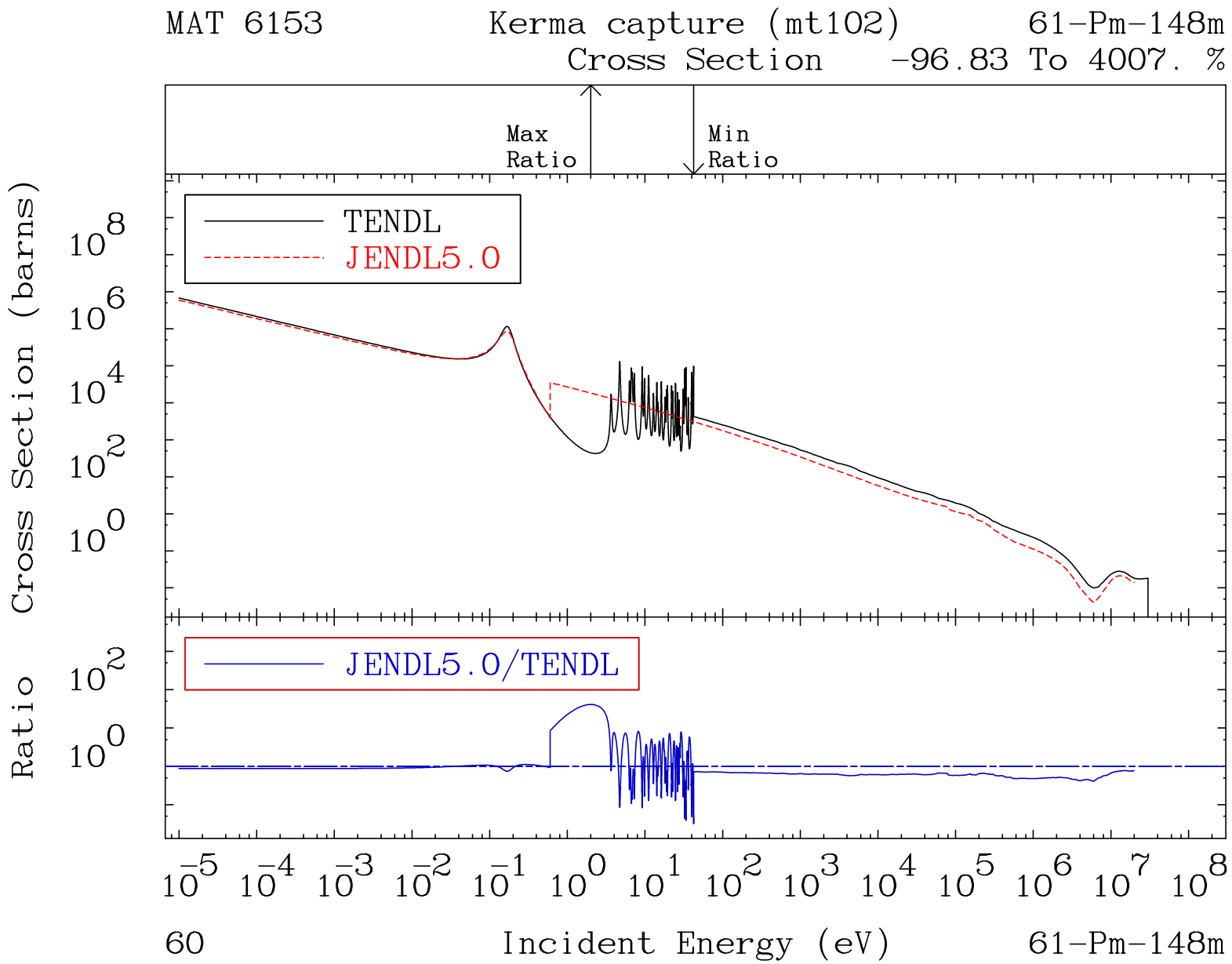

MAT 6153
Kerma total (eV-barns)
61-Pm-148m
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
61-Pm-148m

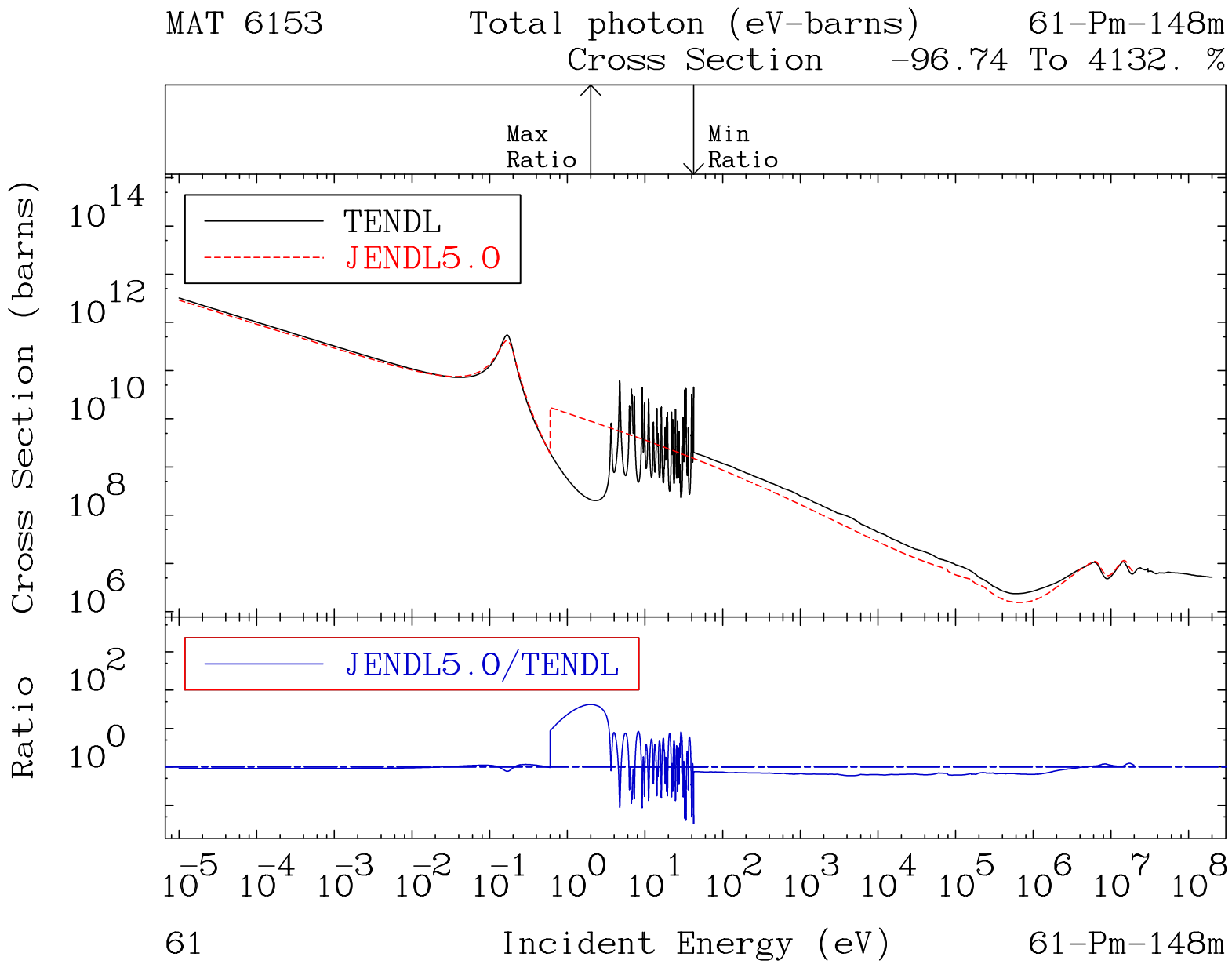

MAT 6153
Kerma elastic
Cross Section
61-Pm-148m
-95.23 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
61-Pm-148m

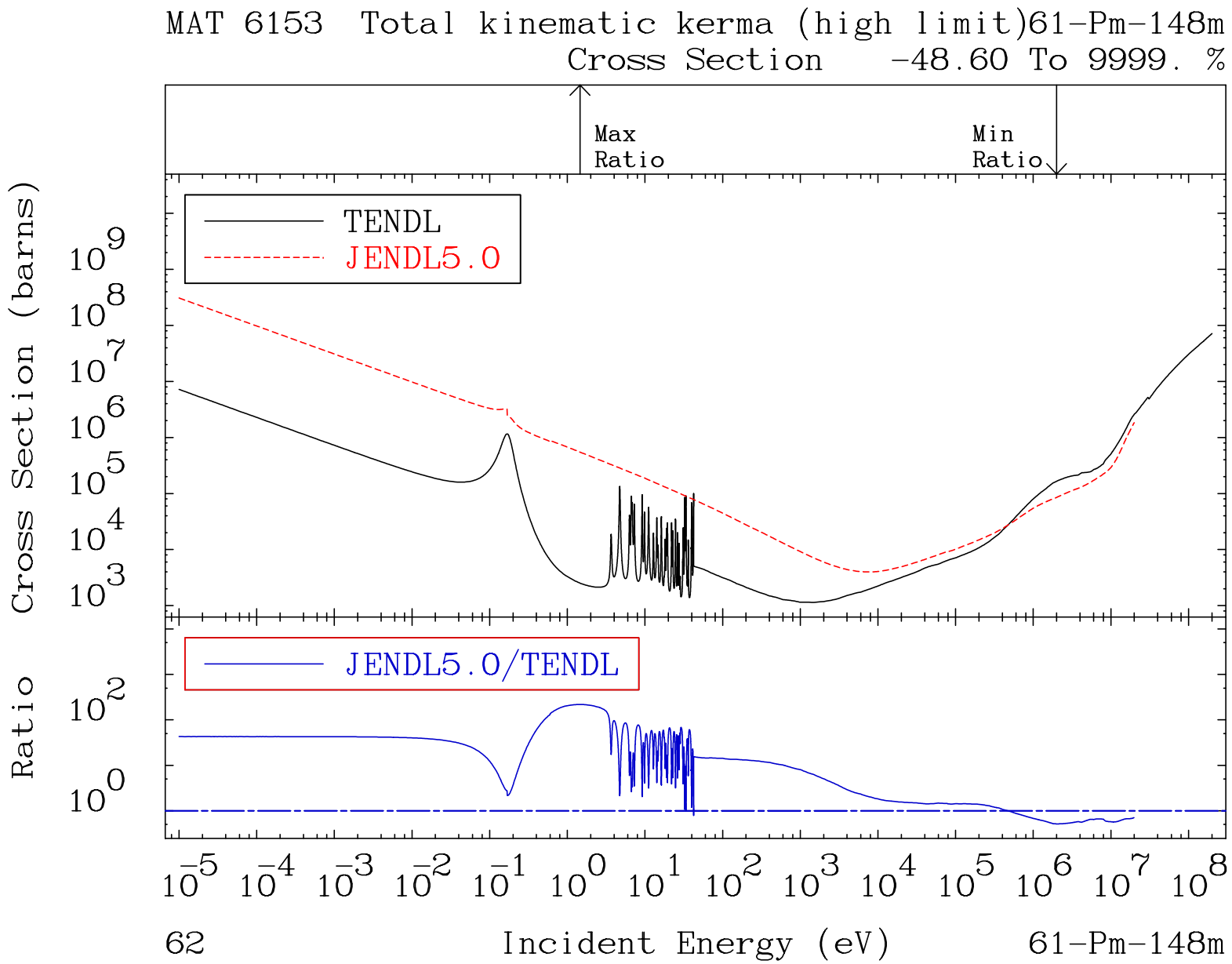

MAT 6153 Kerma non-elastic (all but mt2) 61-Pm-148m
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
61-Pm-148m

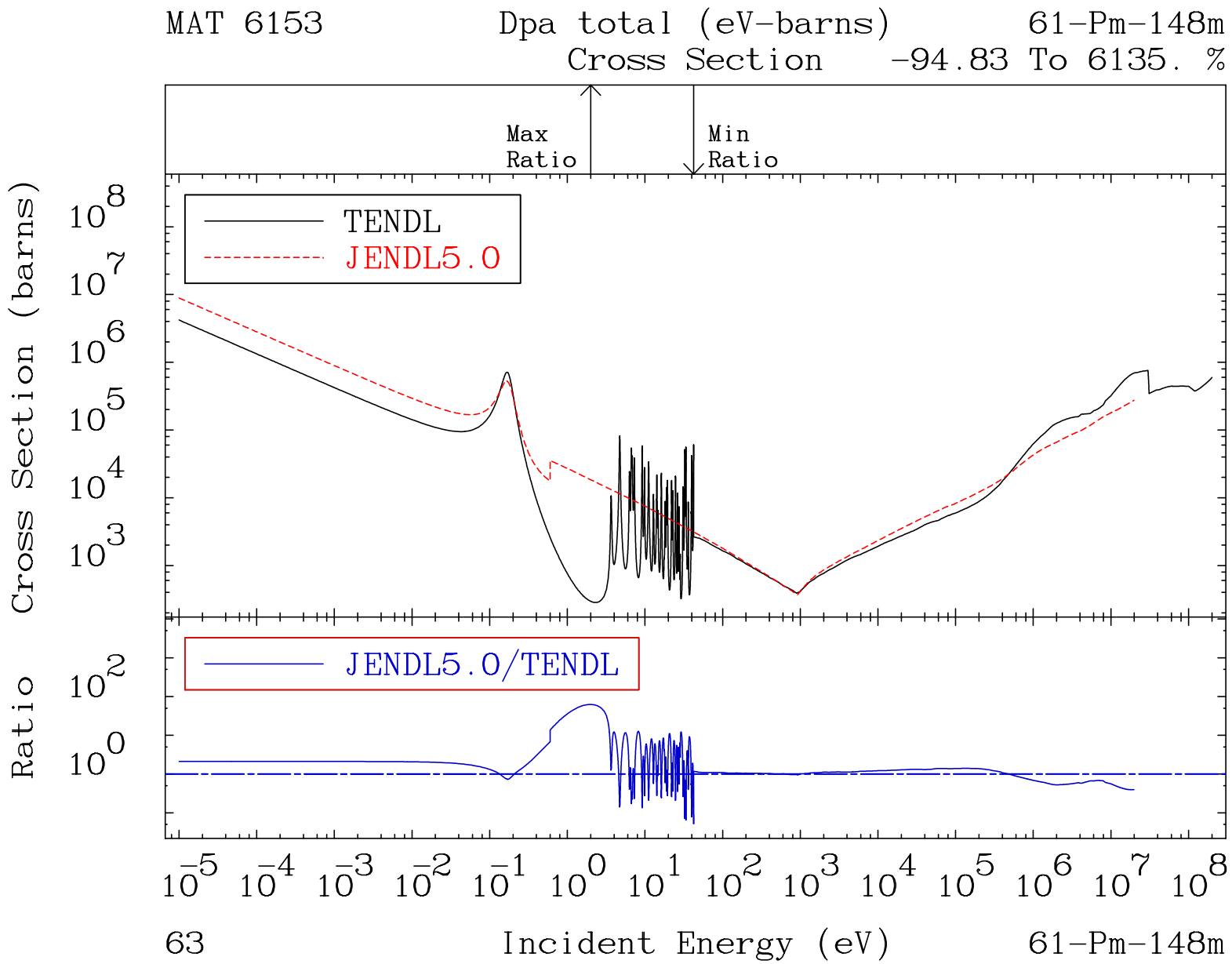

MAT 6153
Kerma inelastic (mt51-91)
61-Pm-148m
Cross Section
-100.0 To 835.7 %
Max Ratio
Min Ratio
TENDL Threshold 42.330 eV
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
61-Pm-148m

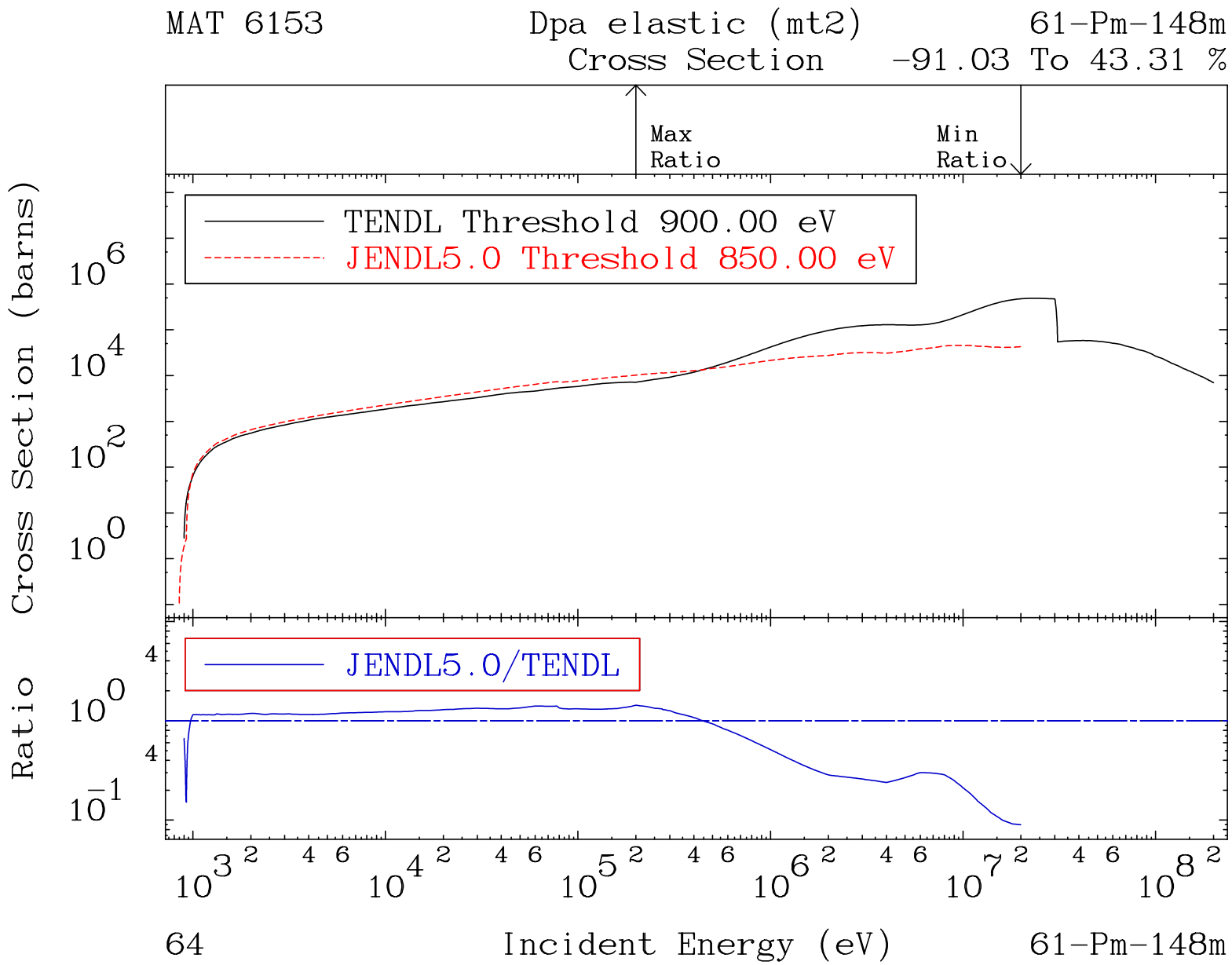

MAT 6153 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-148m
Cross Section -100.0 To 835.7 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{3}
10^{0}
10^{-3}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
59
Incident Energy (eV)
61-Pm-148m

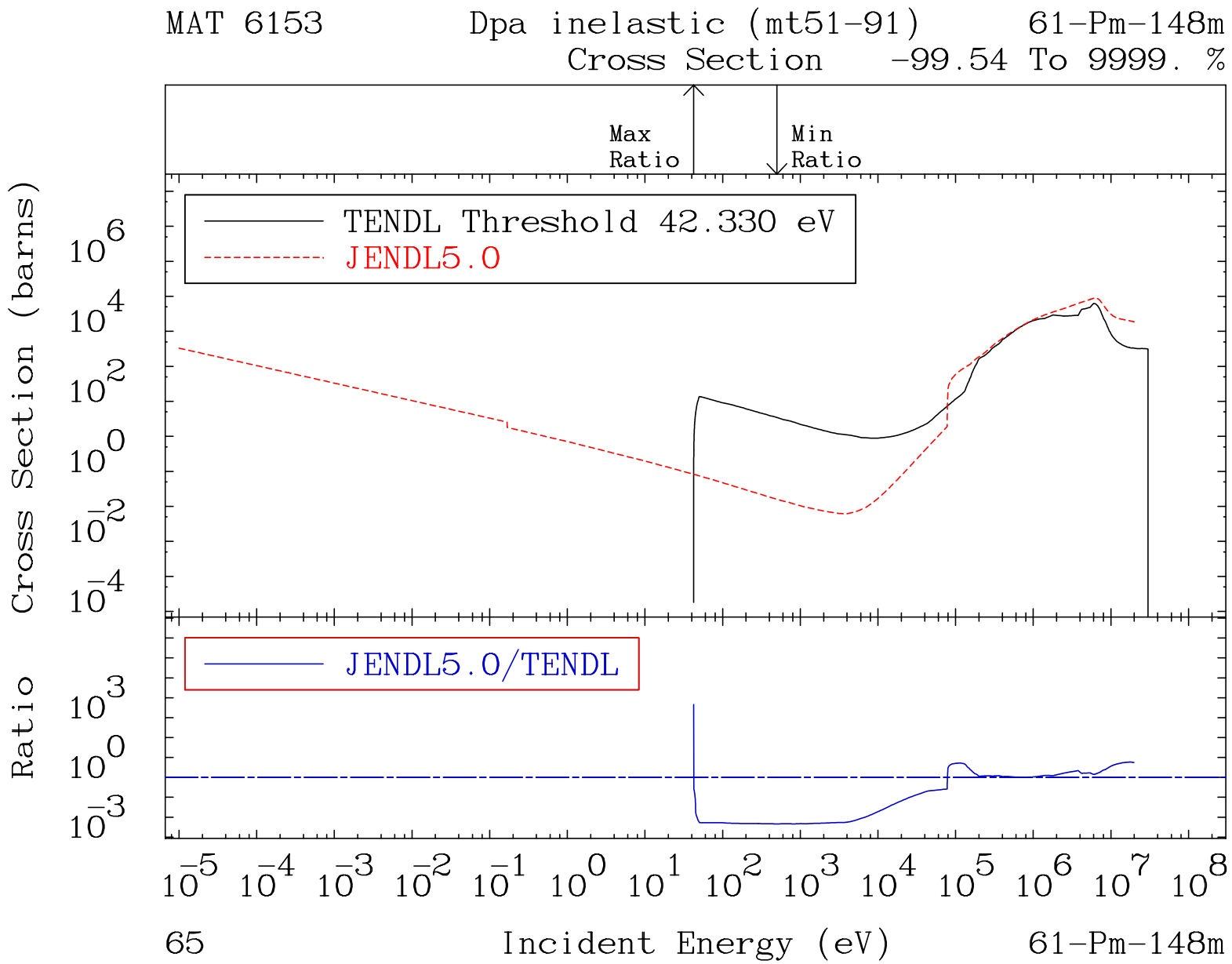

MAT 6153
Kerma capture (mt102)
61-Pm-148m
Cross Section -96.83 To 4007. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
60
61-Pm-148m

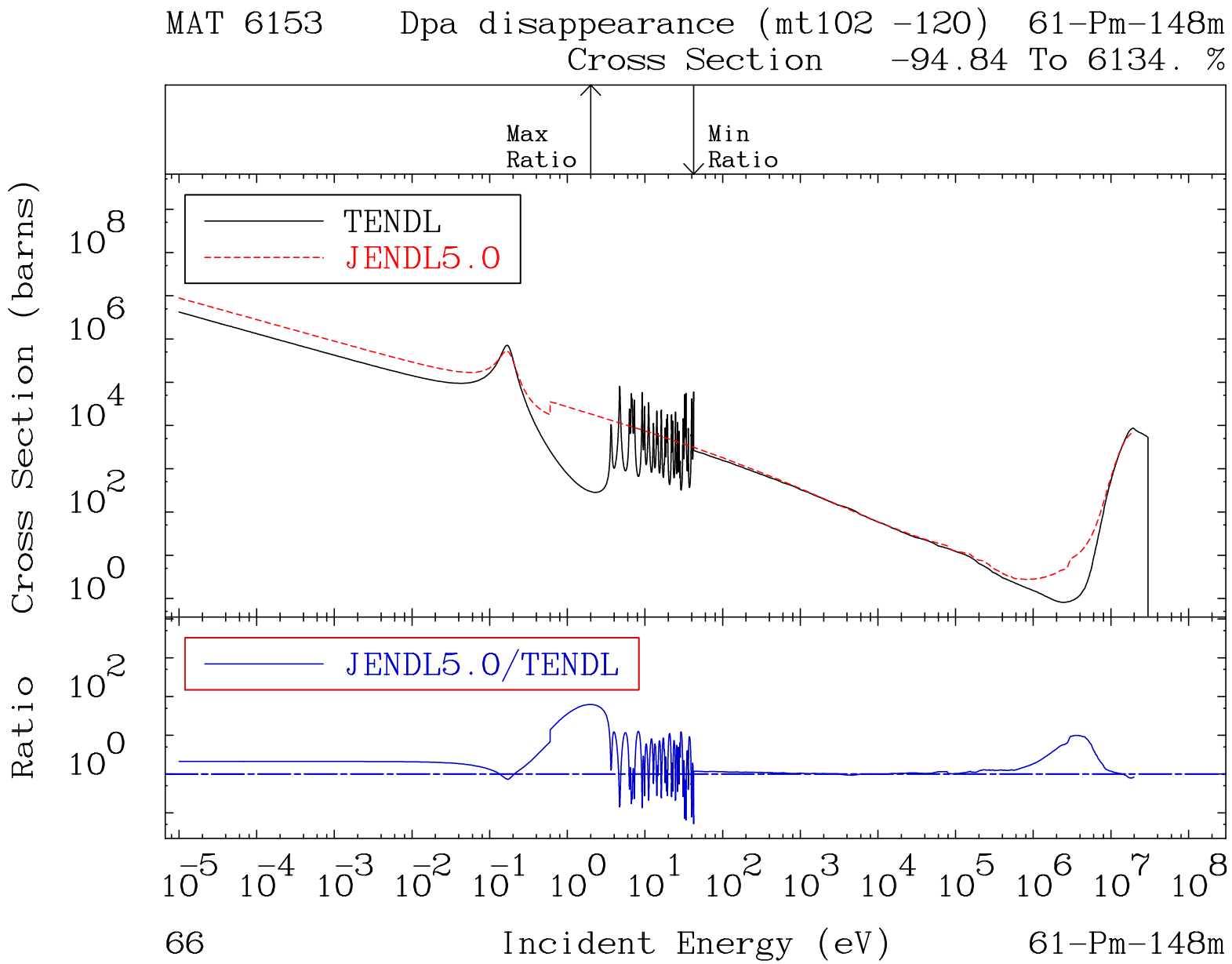

MAT 6153
Total photon (eV-barns)
61-Pm-148m
Cross Section -96.74 To 4132. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
61-Pm-148m

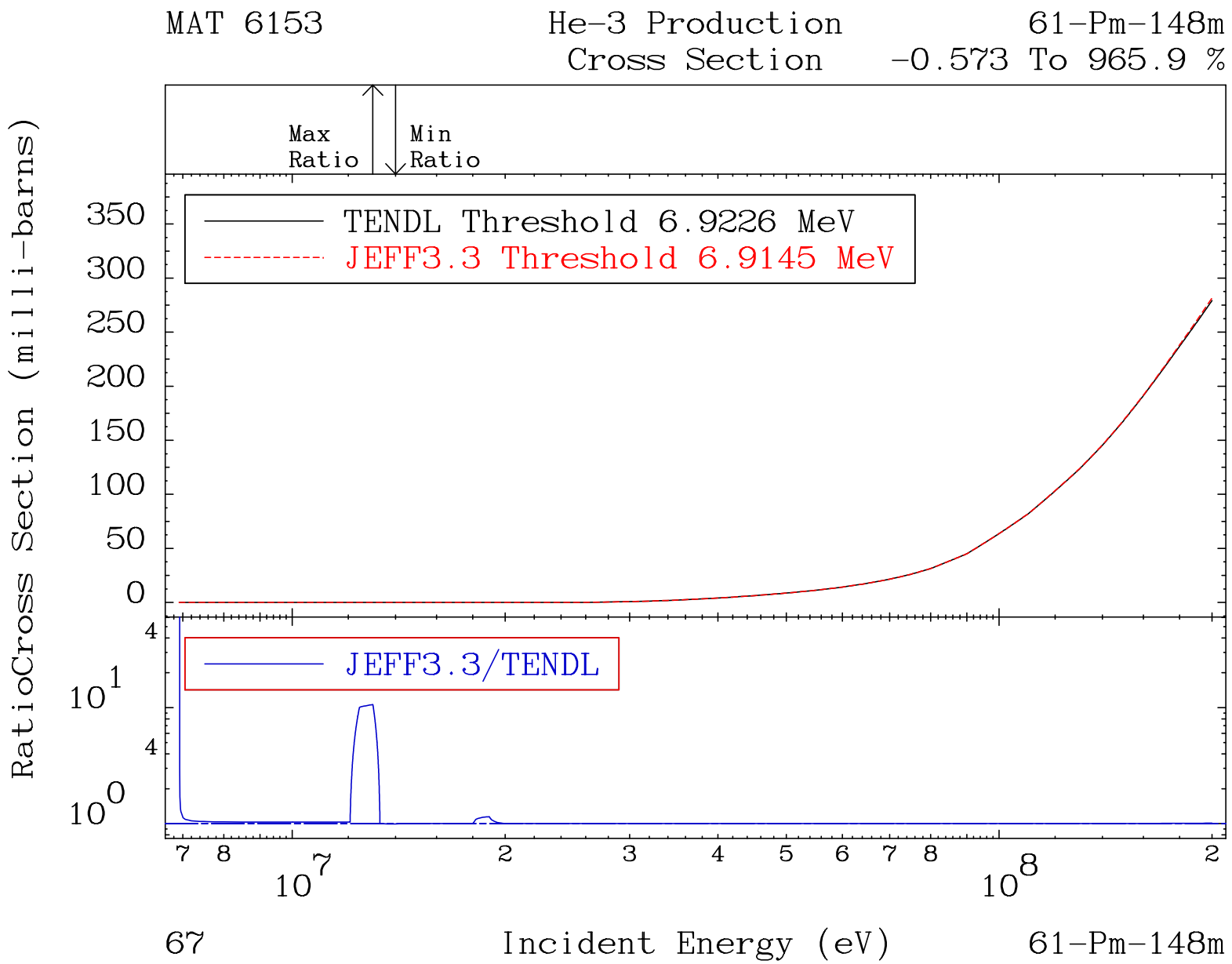

MAT 6153 Total kinematic kerma (high limit)61-Pm-148m
Cross Section -48.60 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
61-Pm-148m

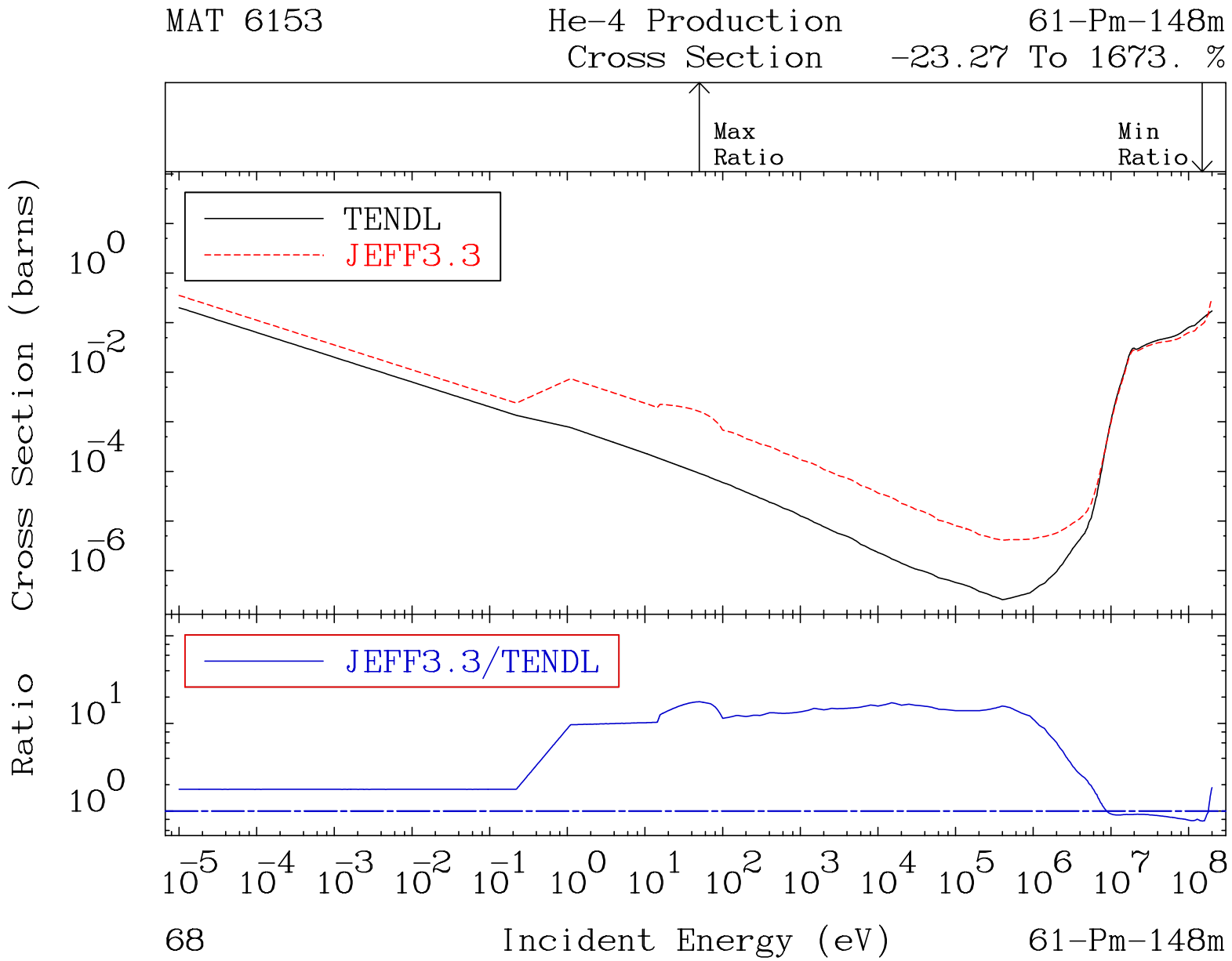

MAT 6153
Dpa total (eV-barns)
61-Pm-148m
Cross Section -94.83 To 6135. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
61-Pm-148m

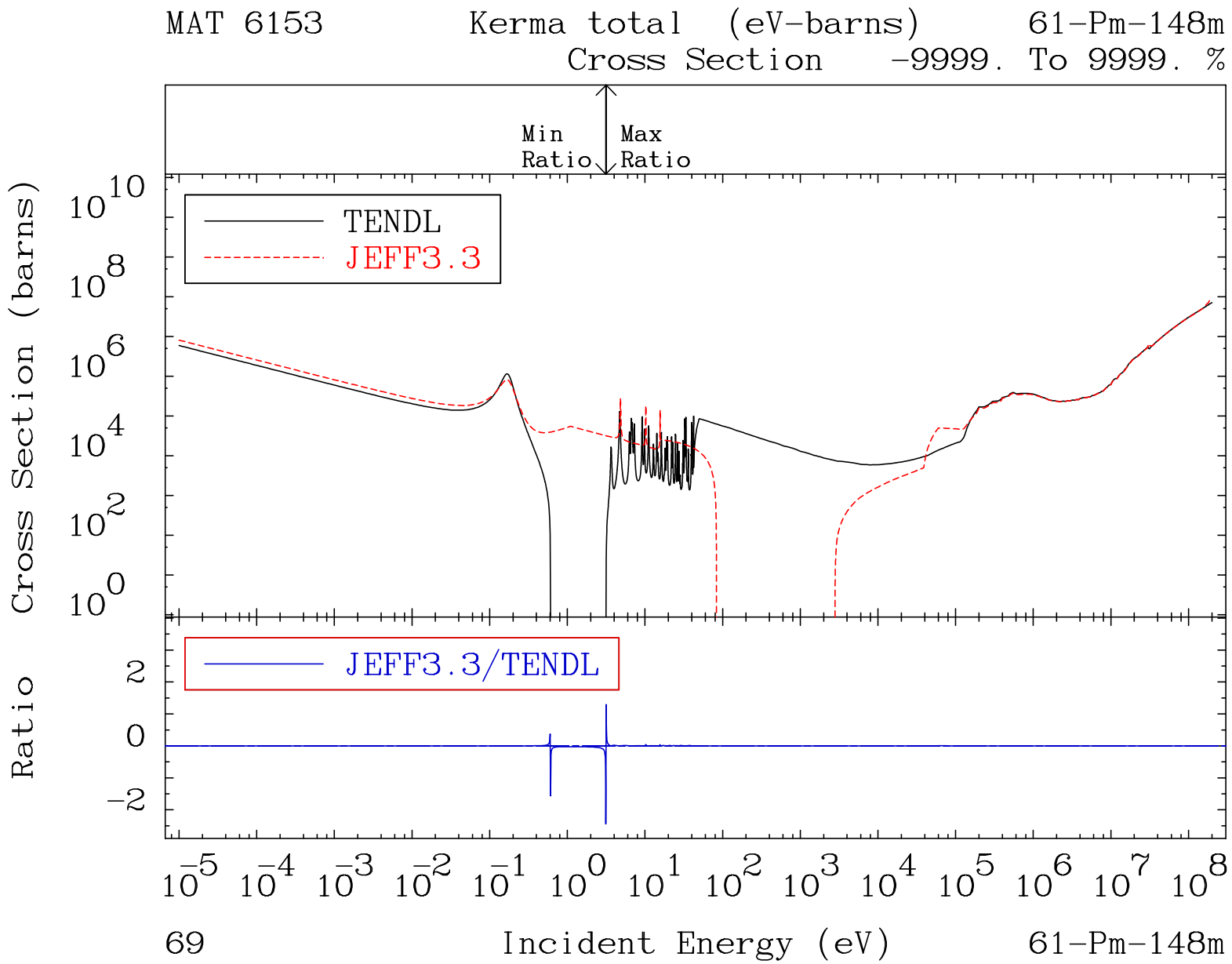

MAT 6153
Dpa elastic (mt2)
Cross Section
61-Pm-148m
-91.03 To 43.31 %
Max
Ratio
Min
Ratio
TENDL Threshold 900.00 eV
JENDL5.0 Threshold 850.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
61-Pm-148m

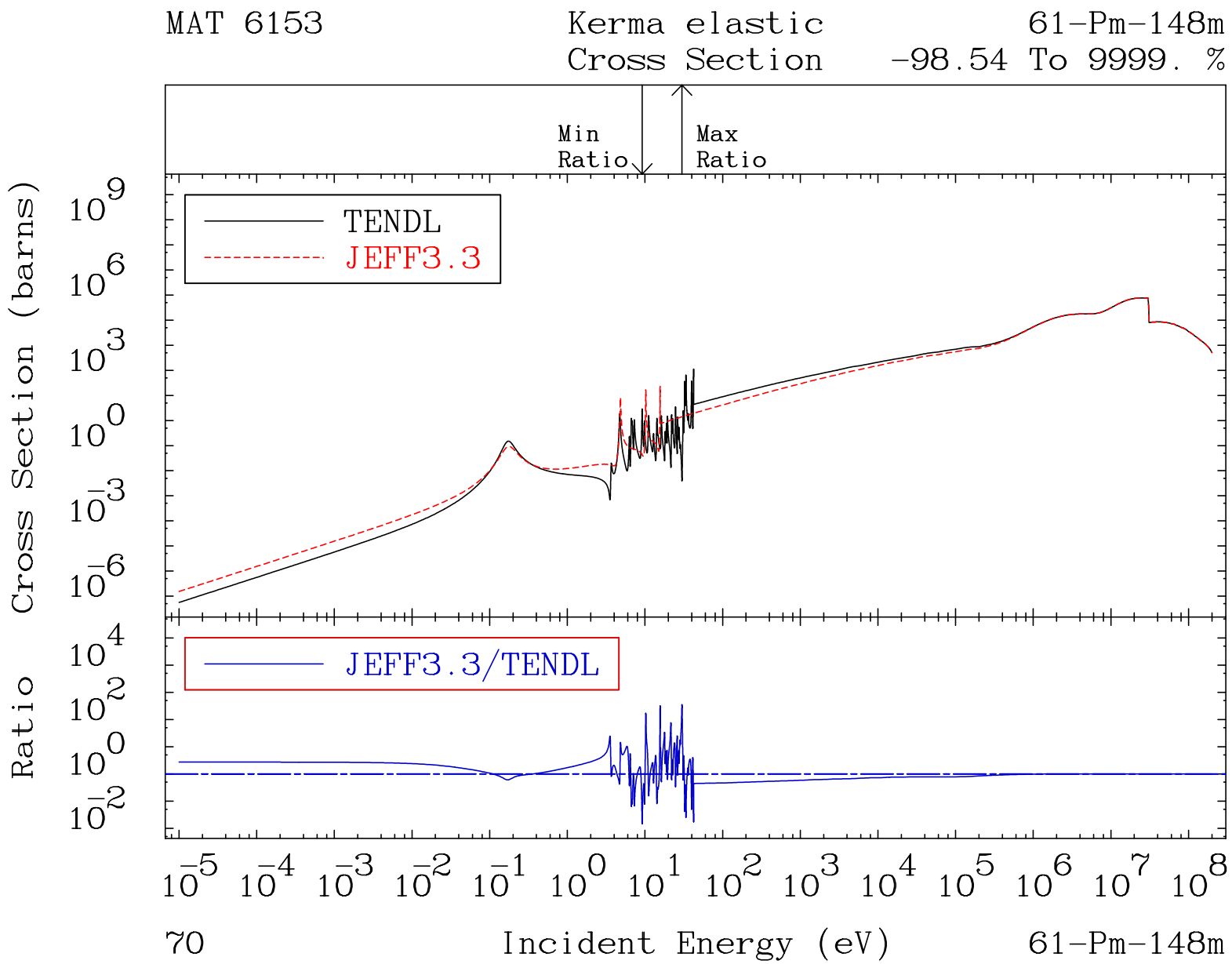

MAT 6153
Dpa inelastic (mt51-91)
61-Pm-148m
Cross Section
-99.54 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 42.330 eV
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
61-Pm-148m

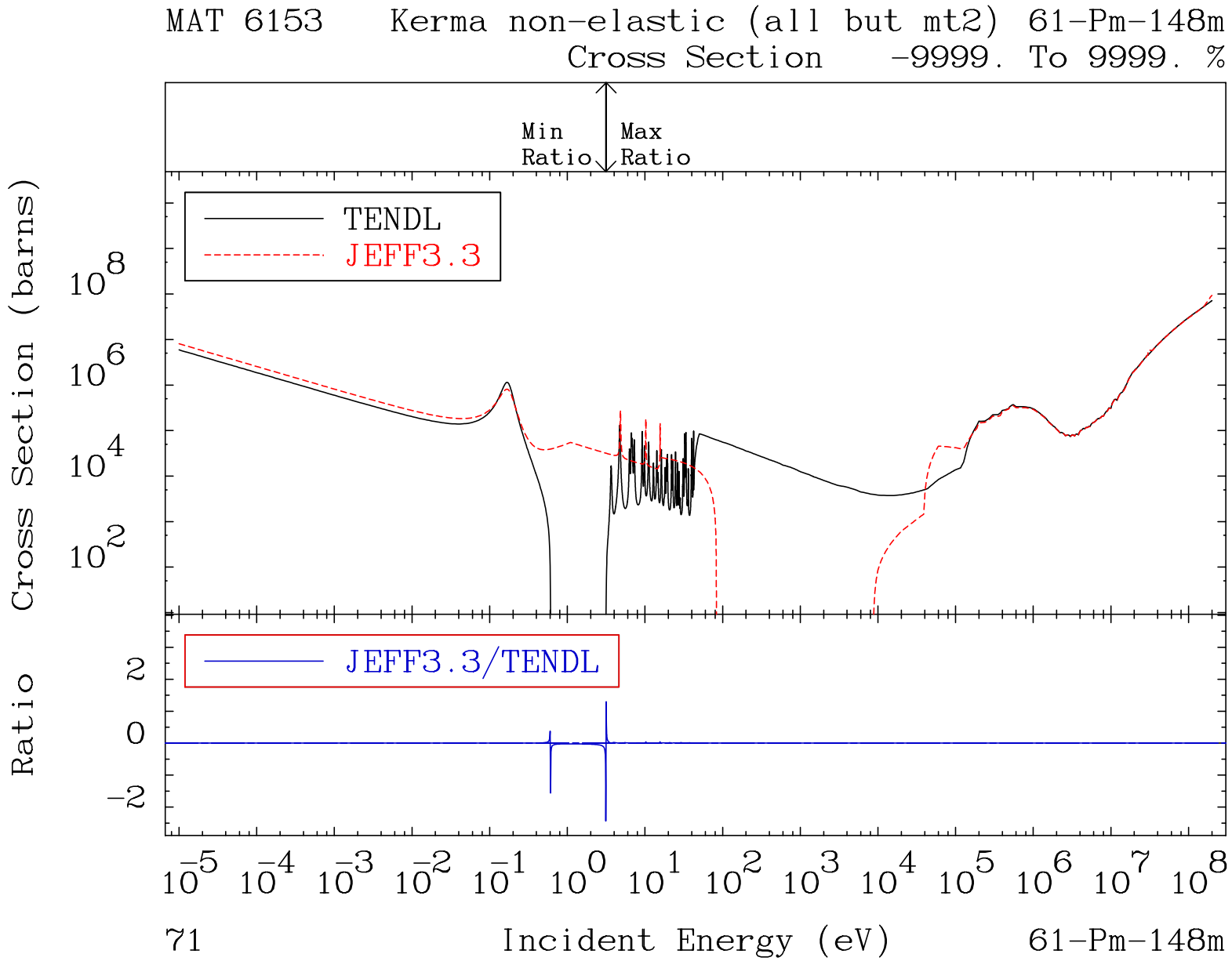

MAT 6153 Dpa disappearance (mt102 -120) 61-Pm-148m
Cross Section -94.84 To 6134. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
61-Pm-148m

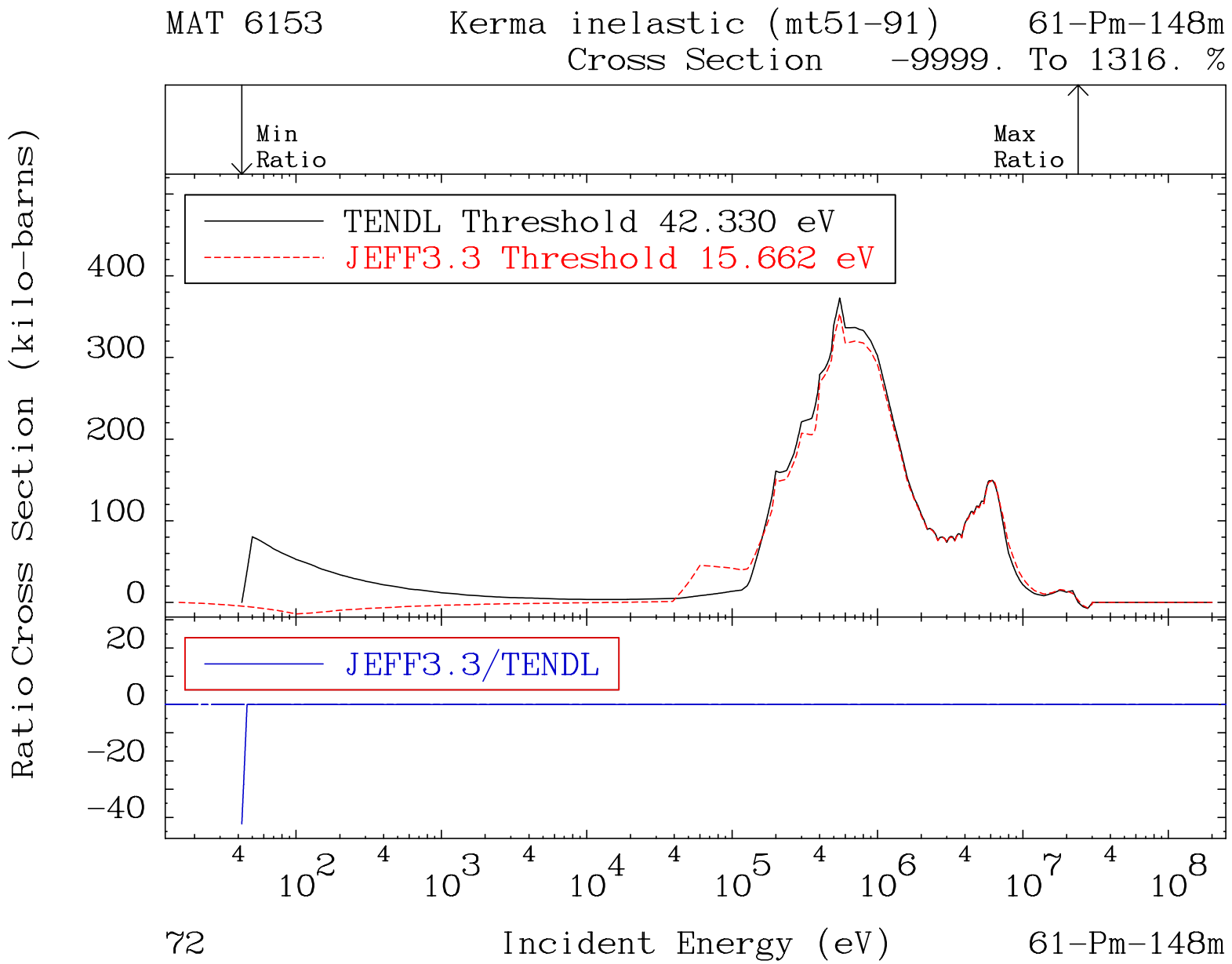

MAT 6153
He-3 Production
Cross Section
61-Pm-148m
-0.573 To 965.9 %
Max Ratio
Min Ratio
TENDL Threshold 6.9226 MeV
JEFF3.3 Threshold 6.9145 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
61-Pm-148m

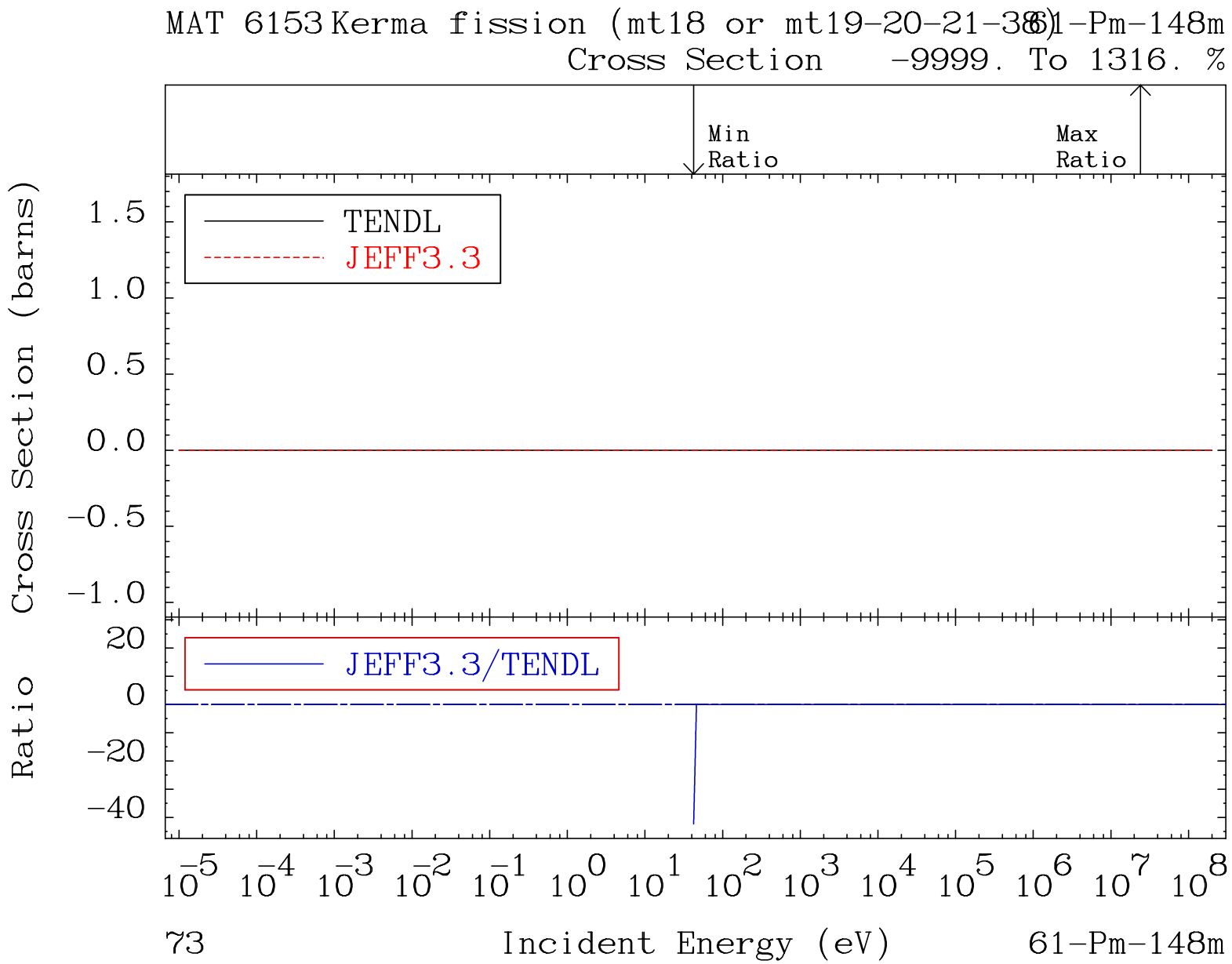

MAT 6153
He-4 Production
Cross Section
61-Pm-148m
-23.27 To 1673. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
61-Pm-148m

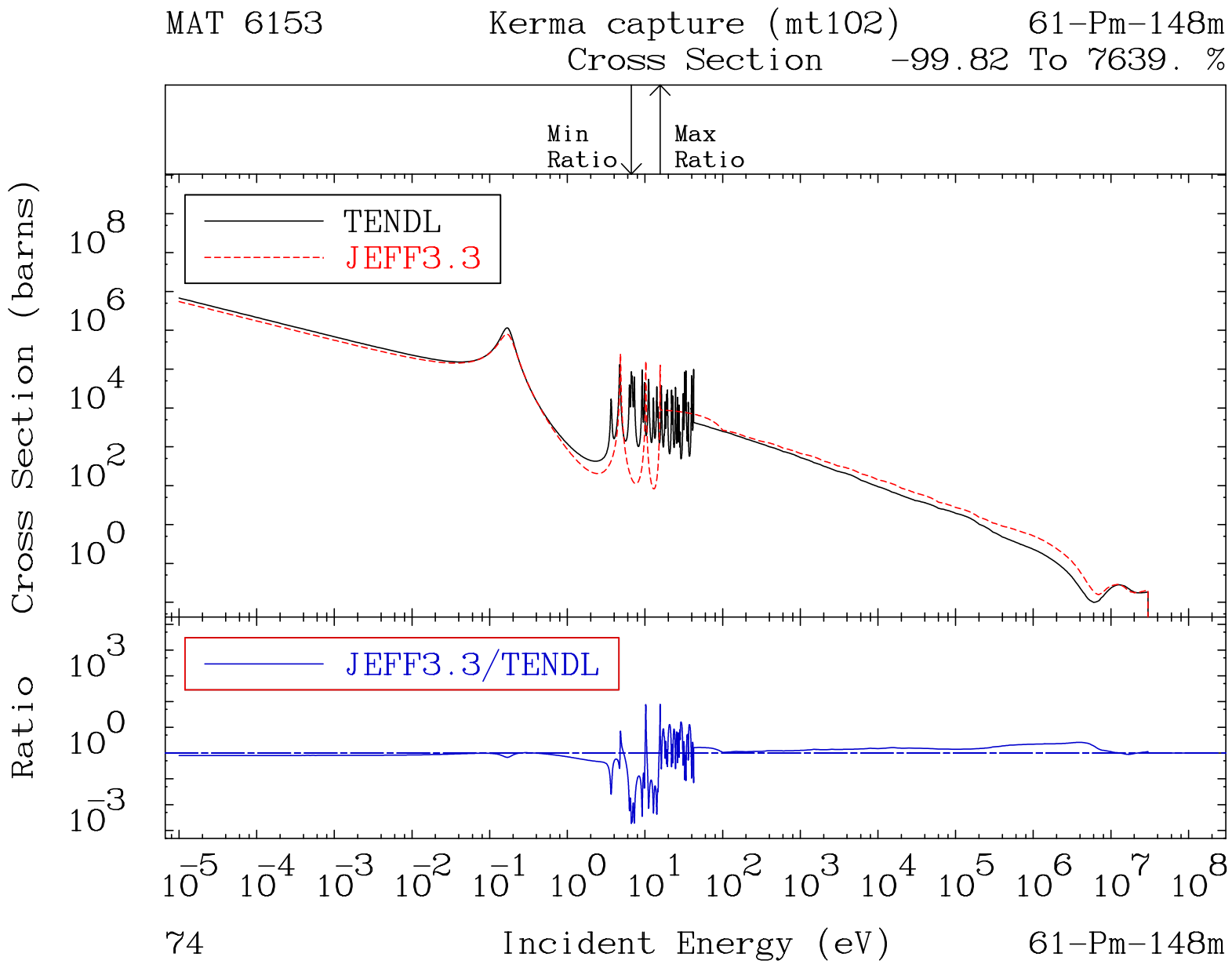

MAT 6153
Kerma total (eV-barns)
61-Pm-148m
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
61-Pm-148m

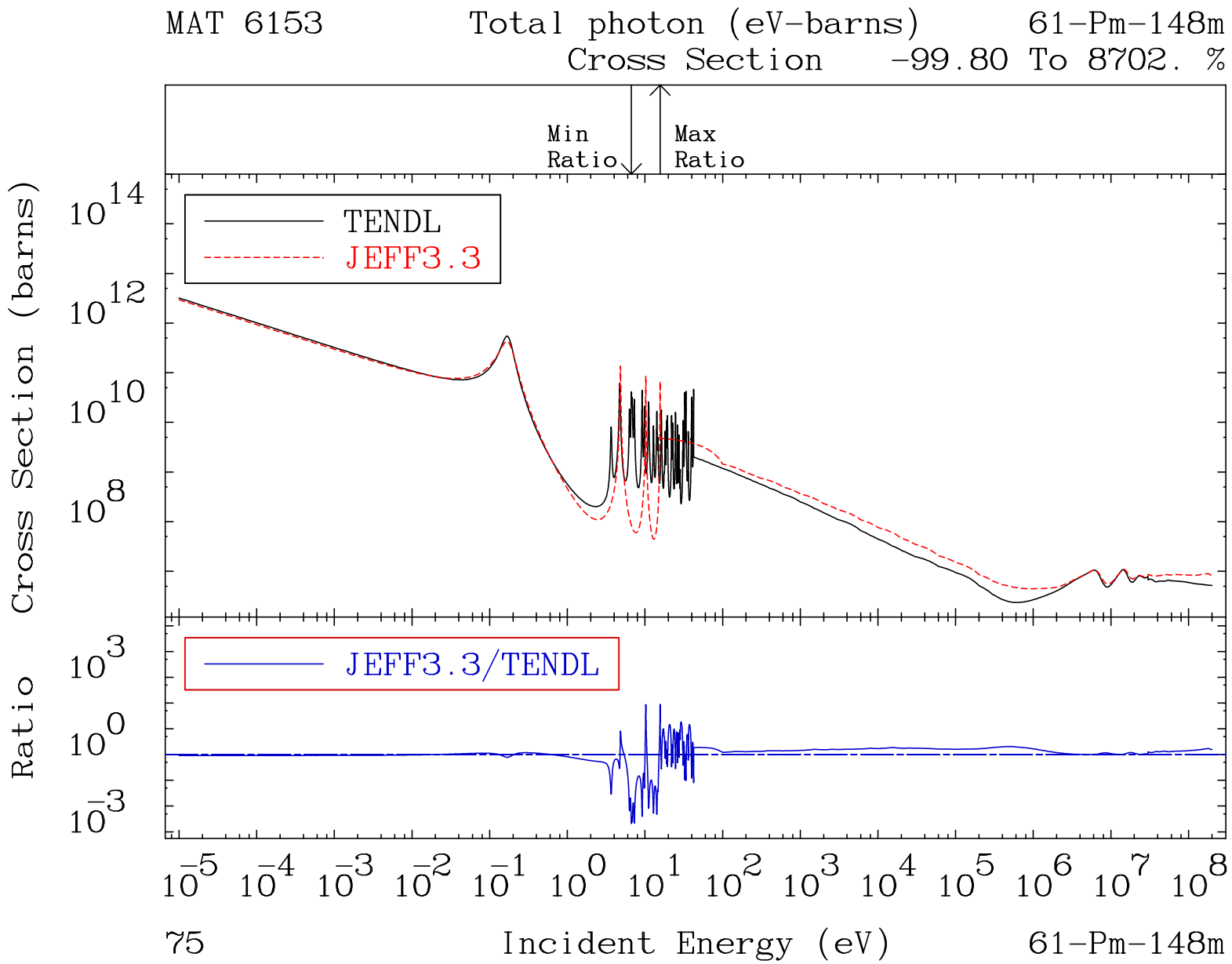

MAT 6153
Kerma elastic
Cross Section
61-Pm-148m
-98.54 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
61-Pm-148m

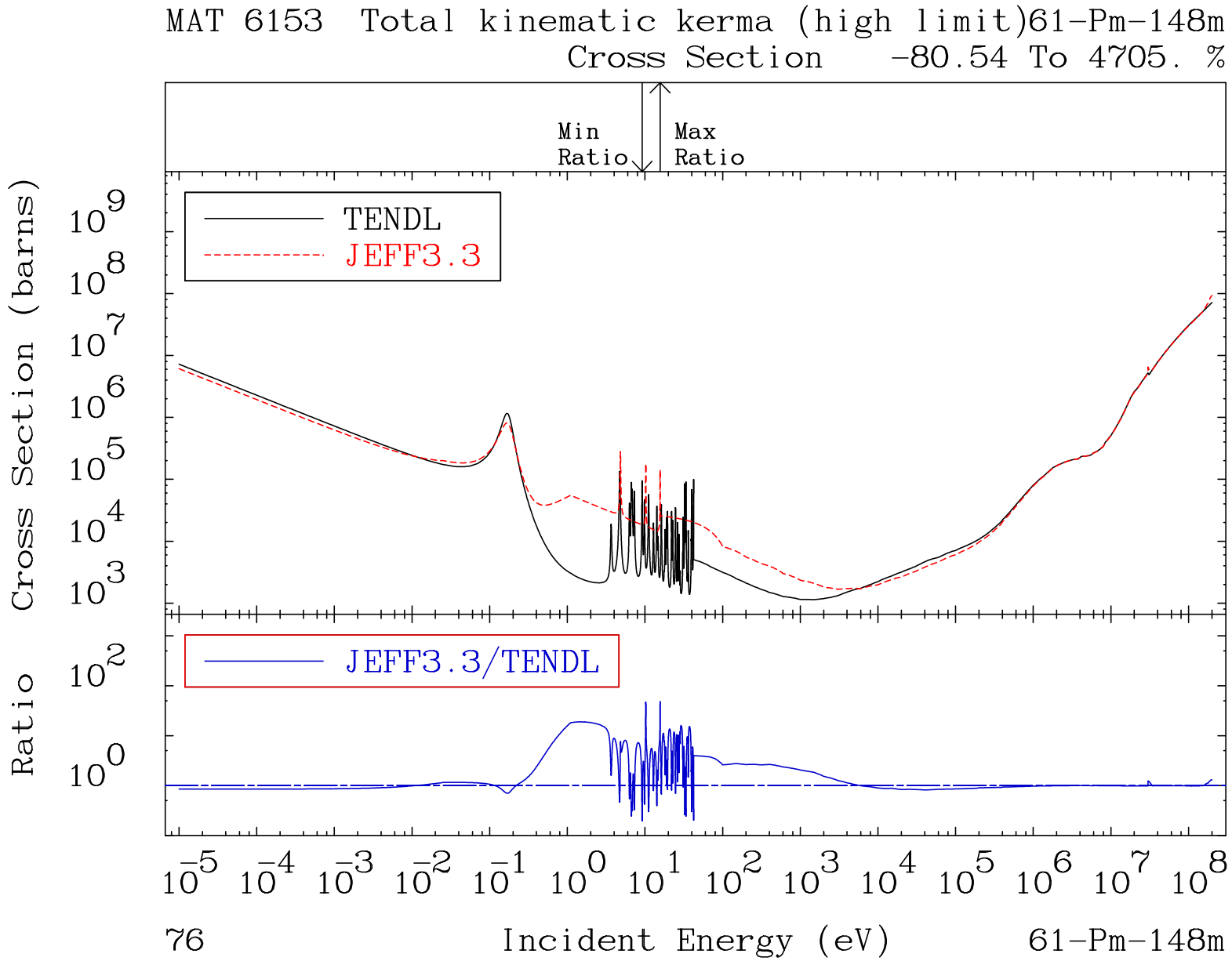

MAT 6153 Kerma non-elastic (all but mt2) 61-Pm-148m
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
61-Pm-148m

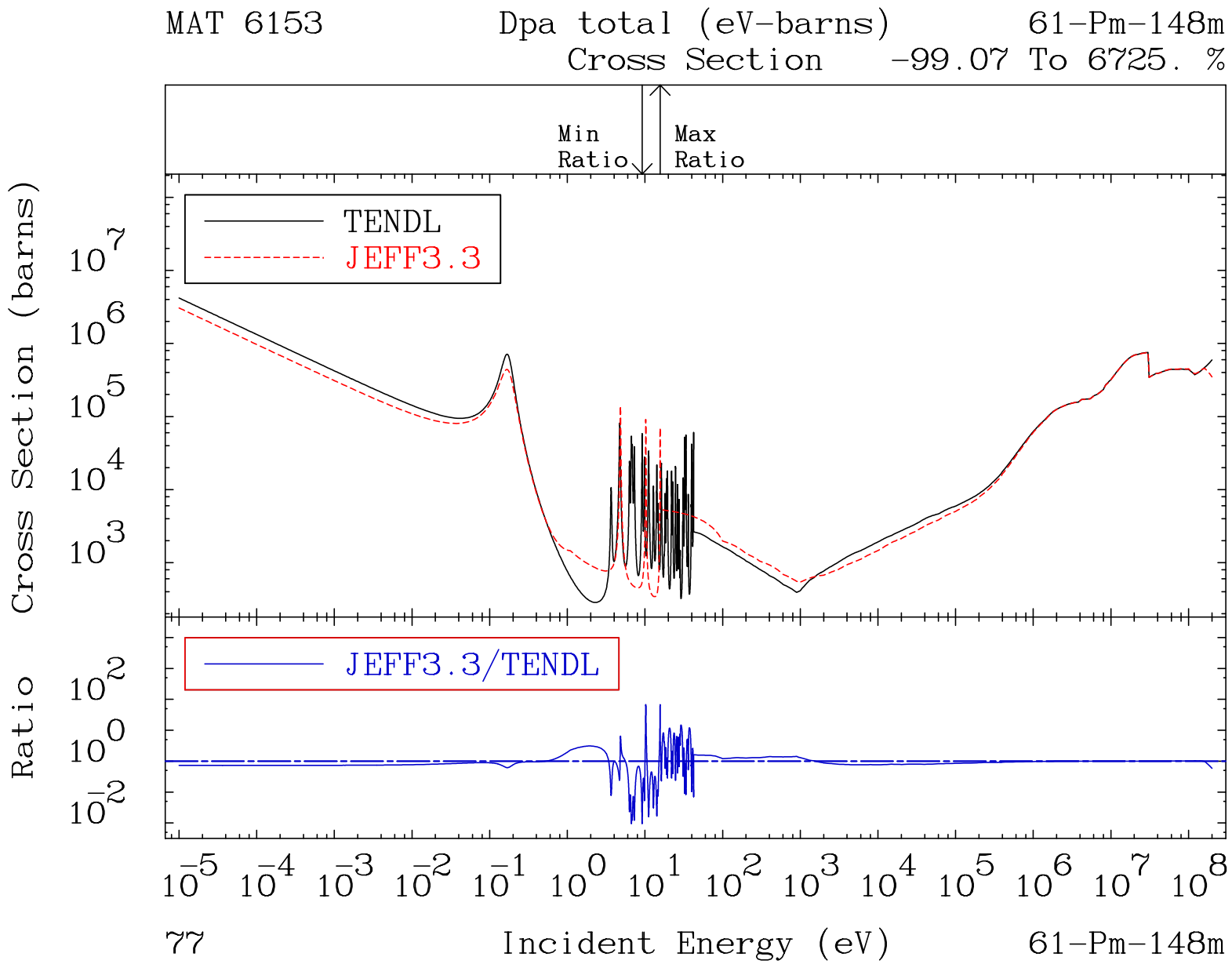

MAT 6153
Kerma inelastic (mt51-91)
61-Pm-148m
Cross Section -9999. To 1316. %
Min Ratio
Max Ratio
TENDL Threshold 42.330 eV
JEFF3.3 Threshold 15.662 eV
JEFF3.3/TENDL
Ratio Cross Section (kilo-barns)
400
300
200
100
0
20
0
-20
-40
10^2
10^3
10^4
10^5
10^6
10^7
10^8
72
Incident Energy (eV)
61-Pm-148m

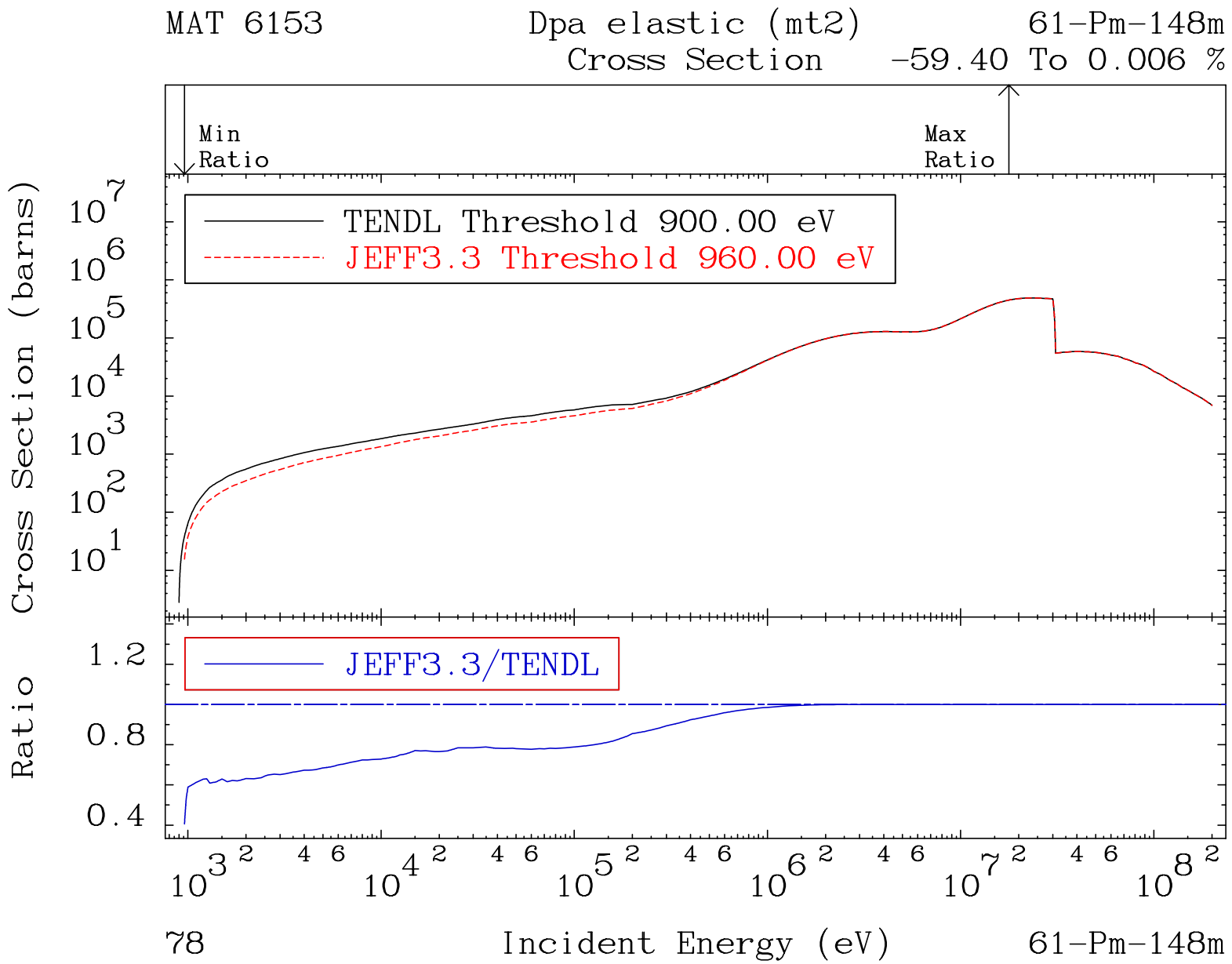

MAT 6153 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-148m
Cross Section -9999. To 1316. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
20
0
-20
-40
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
73
Incident Energy (eV)
61-Pm-148m

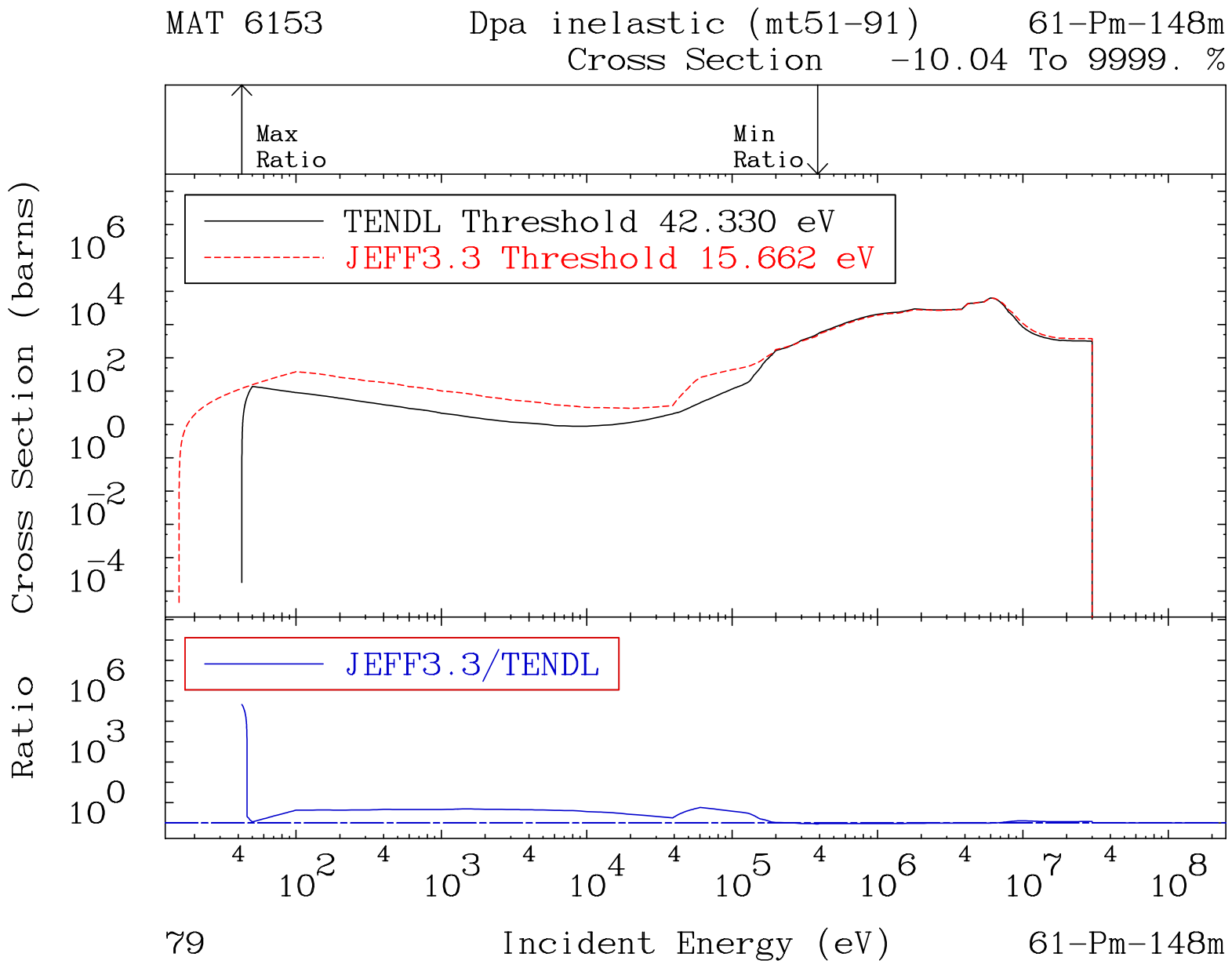

MAT 6153
Kerma capture (mt102)
61-Pm-148m
Cross Section -99.82 To 7639. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
61-Pm-148m

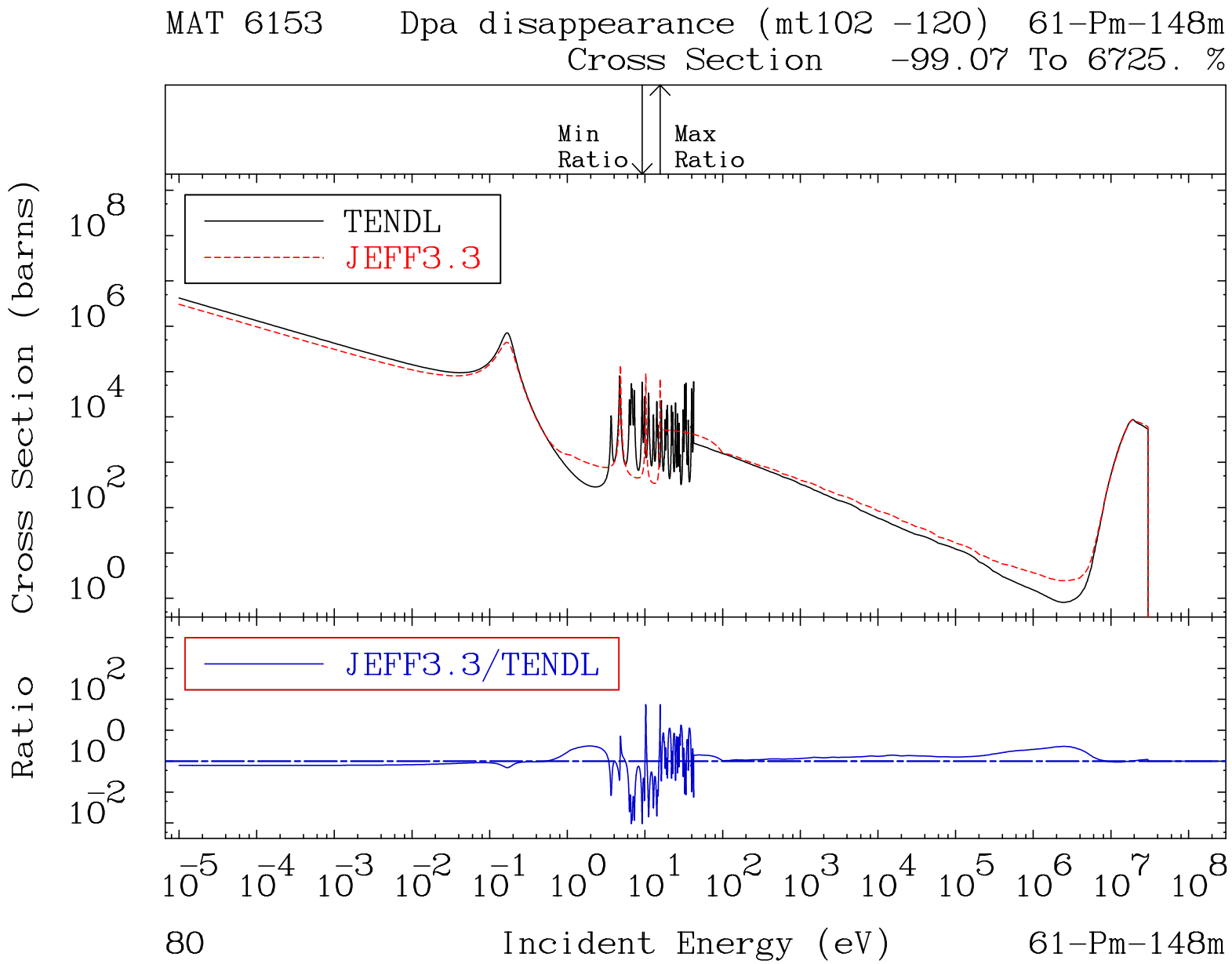

MAT 6153
Total photon (eV-barns)
61-Pm-148m
Cross Section -99.80 To 8702. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
61-Pm-148m

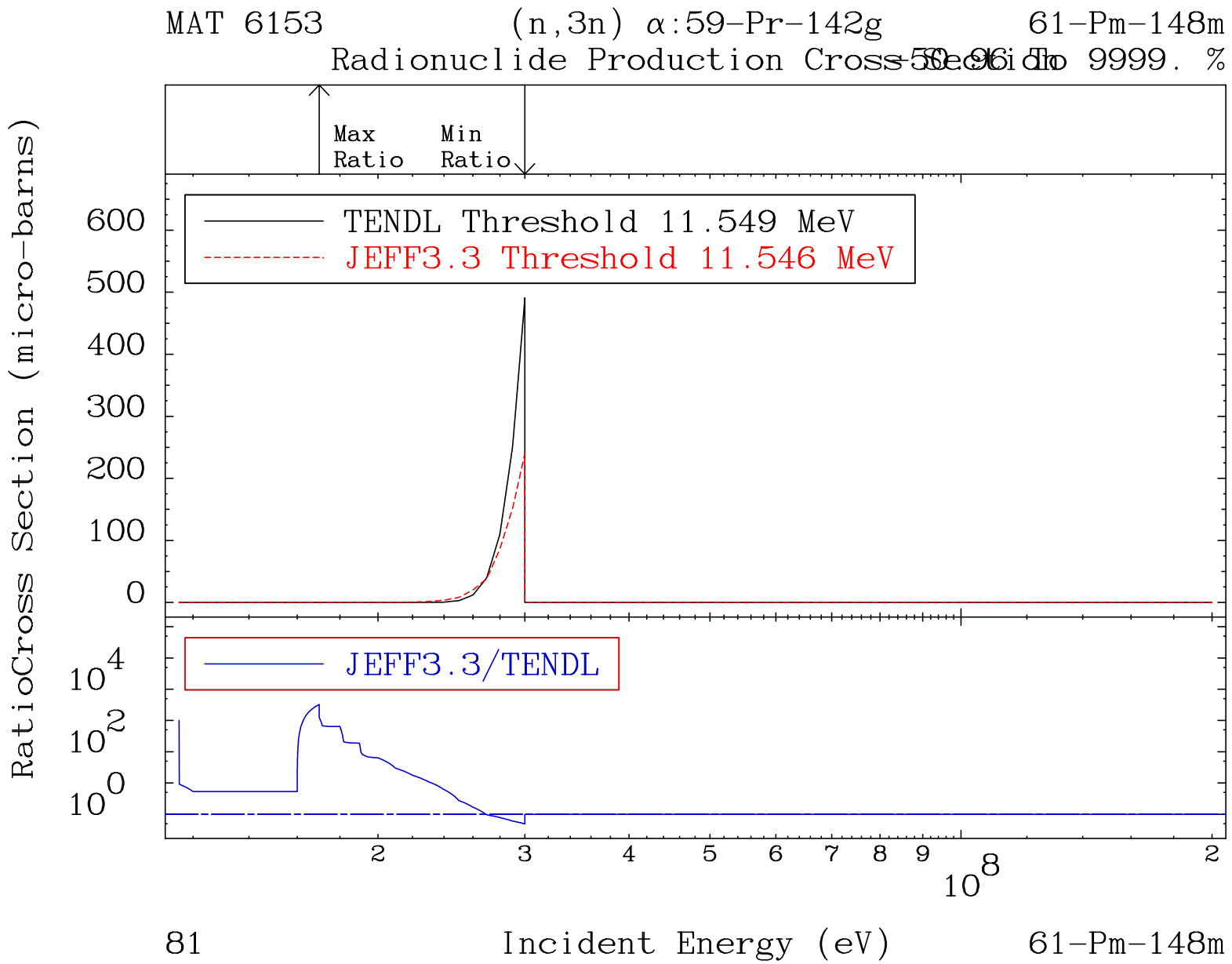

MAT 6153 Total kinematic kerma (high limit)61-Pm-148m
Cross Section -80.54 To 4705. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
61-Pm-148m

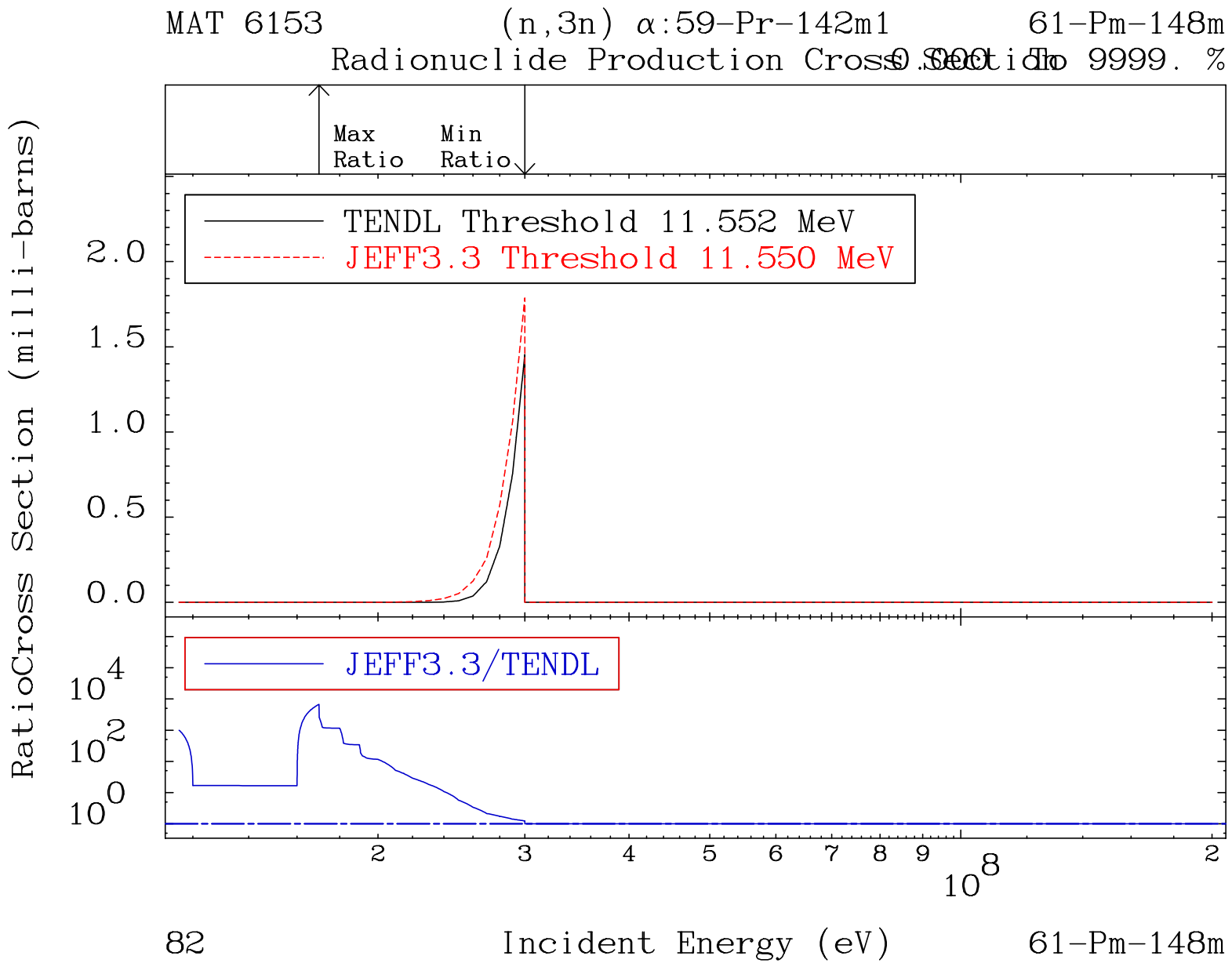

MAT 6153
Dpa total (eV-barns)
61-Pm-148m
Cross Section -99.07 To 6725. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
61-Pm-148m


MAT 6153
Dpa elastic (mt2)
Cross Section
61-Pm-148m
-59.40 To 0.006 %
Min
Ratio
Max
Ratio
TENDL Threshold 900.00 eV
JEFF3.3 Threshold 960.00 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
78
61-Pm-148m


MAT 6153
Dpa inelastic (mt51-91)
61-Pm-148m
Cross Section
-10.04 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 42.330 eV
JEFF3.3 Threshold 15.662 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
79
61-Pm-148m


MAT 6153 Dpa disappearance (mt102 -120) 61-Pm-148m
Cross Section -99.07 To 6725. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
80
61-Pm-148m


MAT 6153
(n,3n) α:59-Pr-142g
61-Pm-148m
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.549 MeV
JEFF3.3 Threshold 11.546 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
600
500
400
300
200
100
0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
61-Pm-148m


MAT 6153
(n,3n) α:59-Pr-142m1
61-Pm-148m
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.552 MeV
JEFF3.3 Threshold 11.550 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
61-Pm-148m