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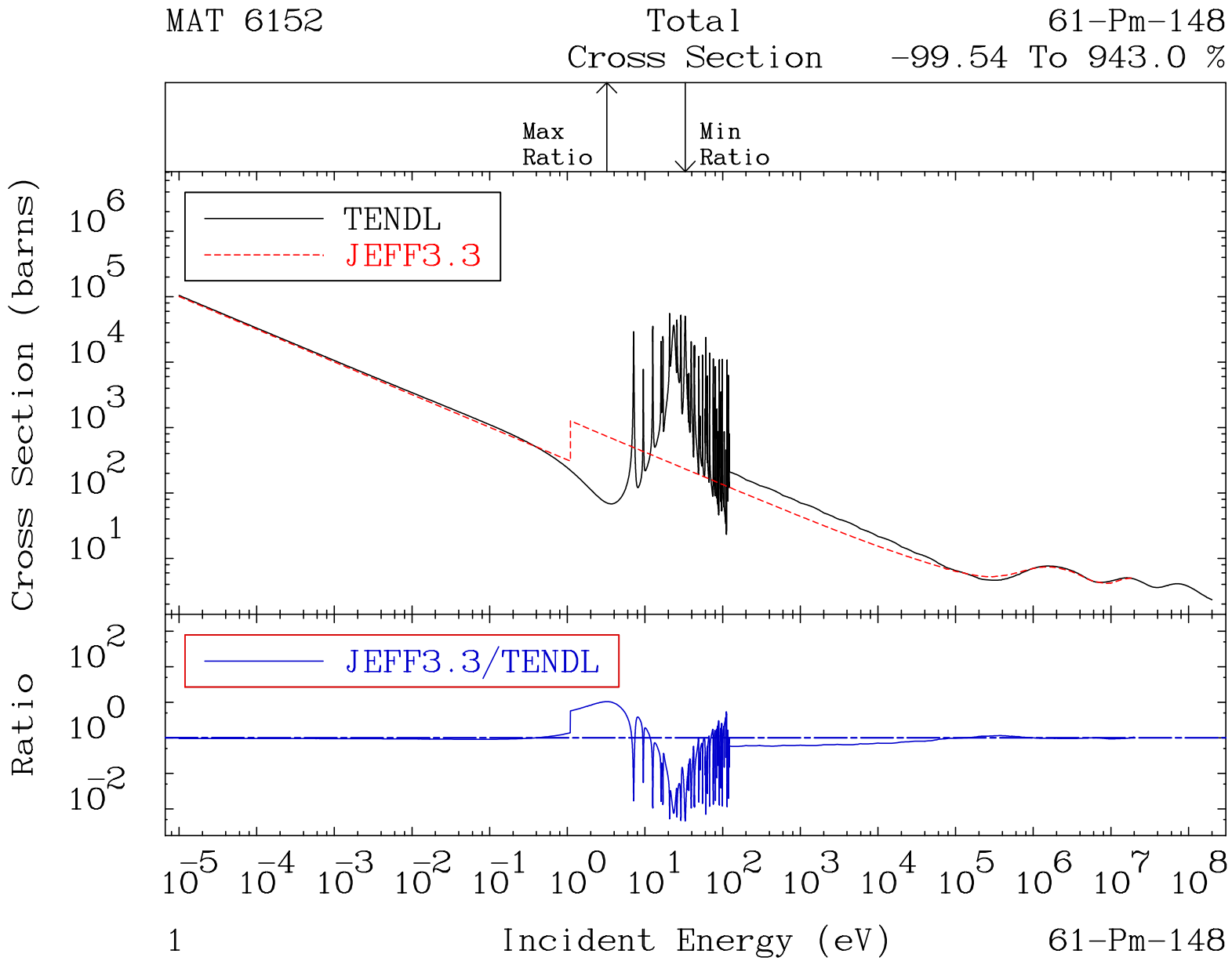
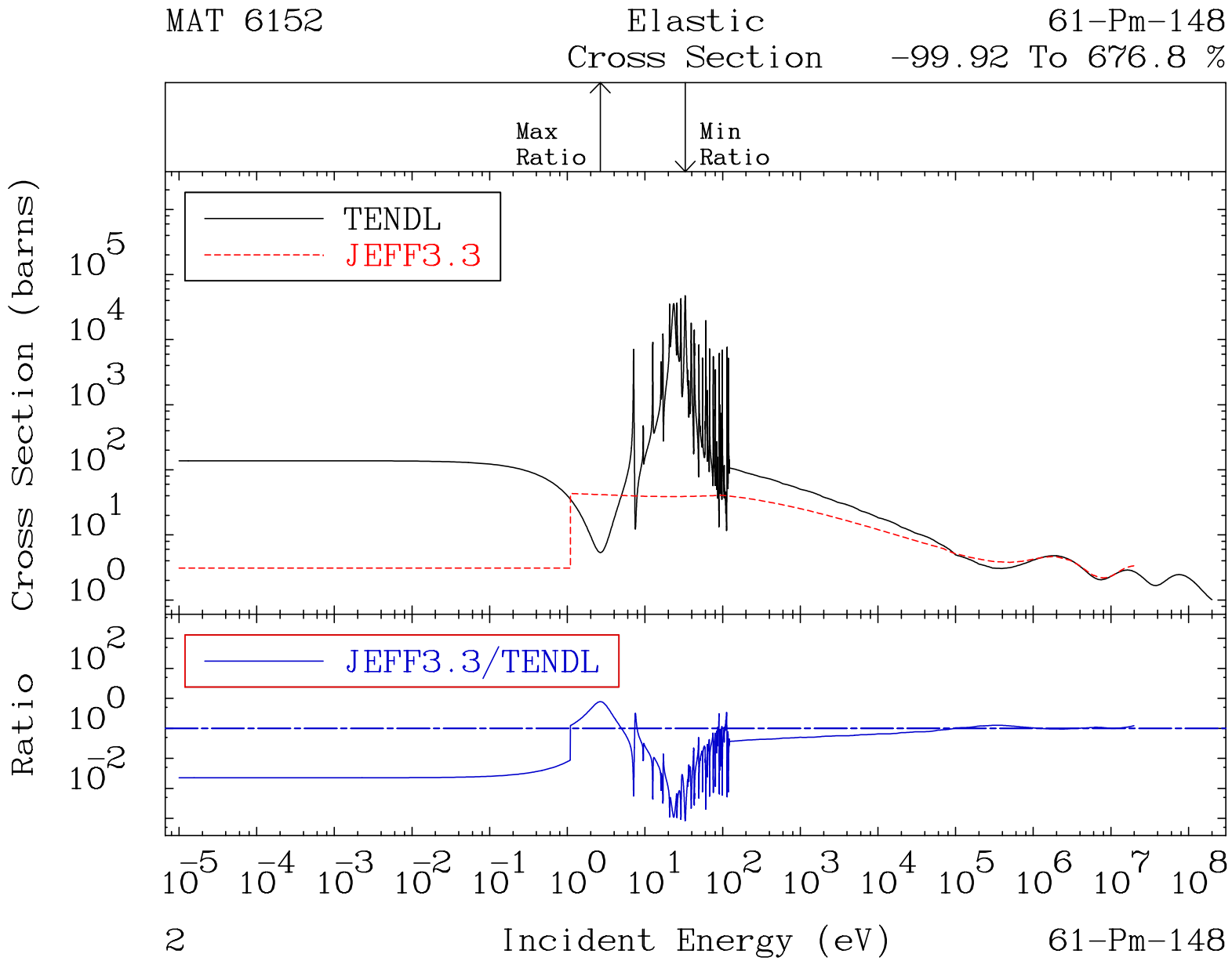
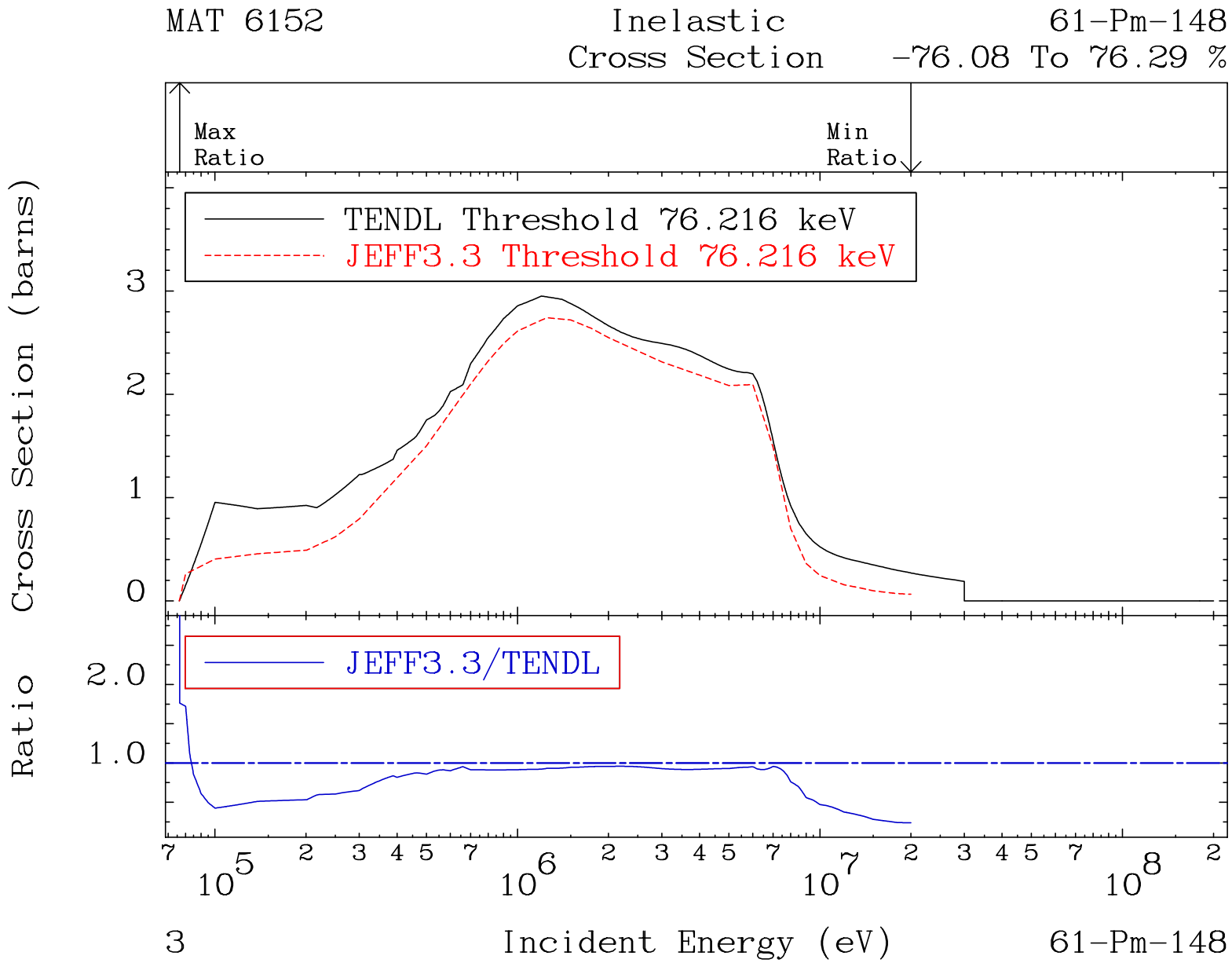
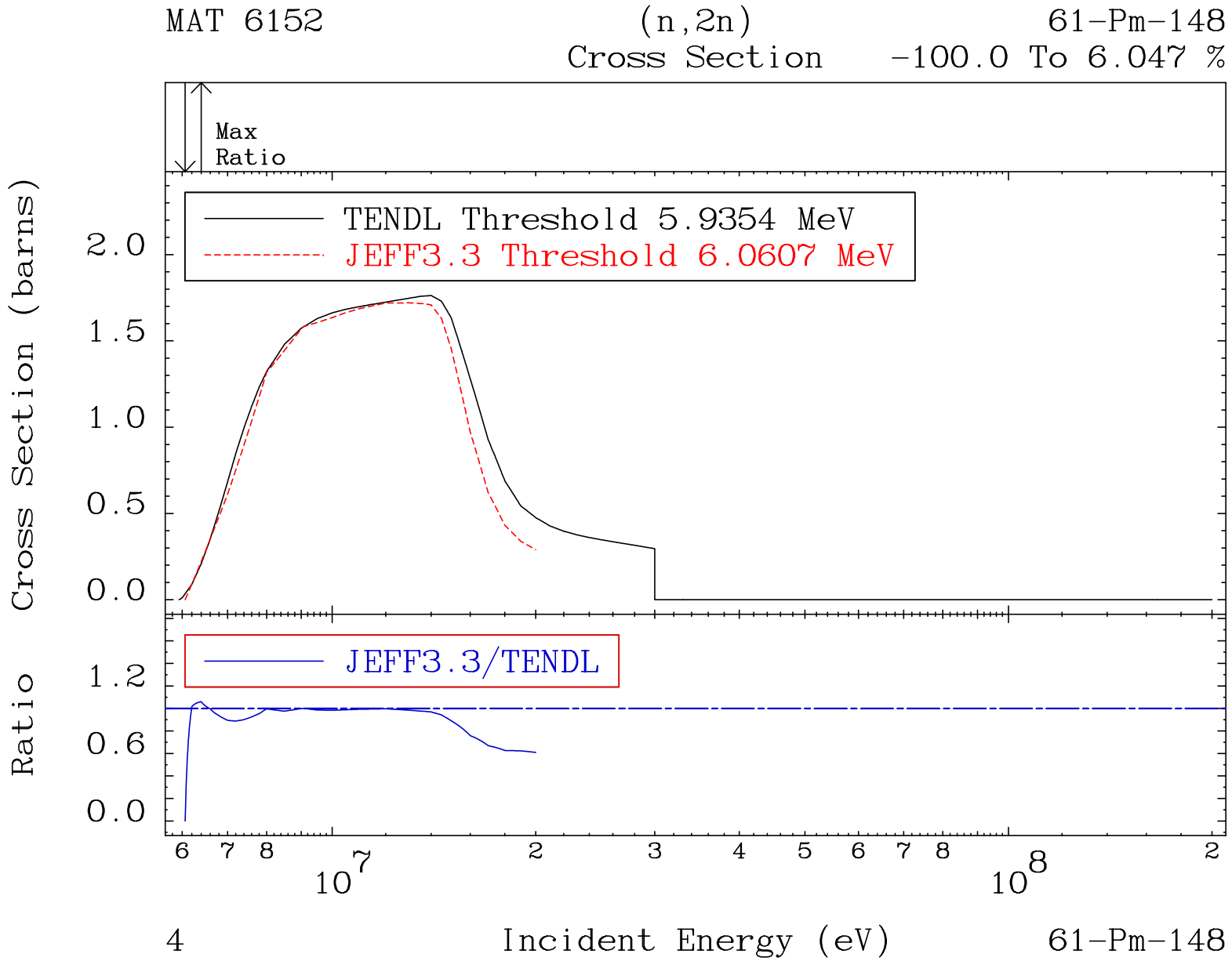
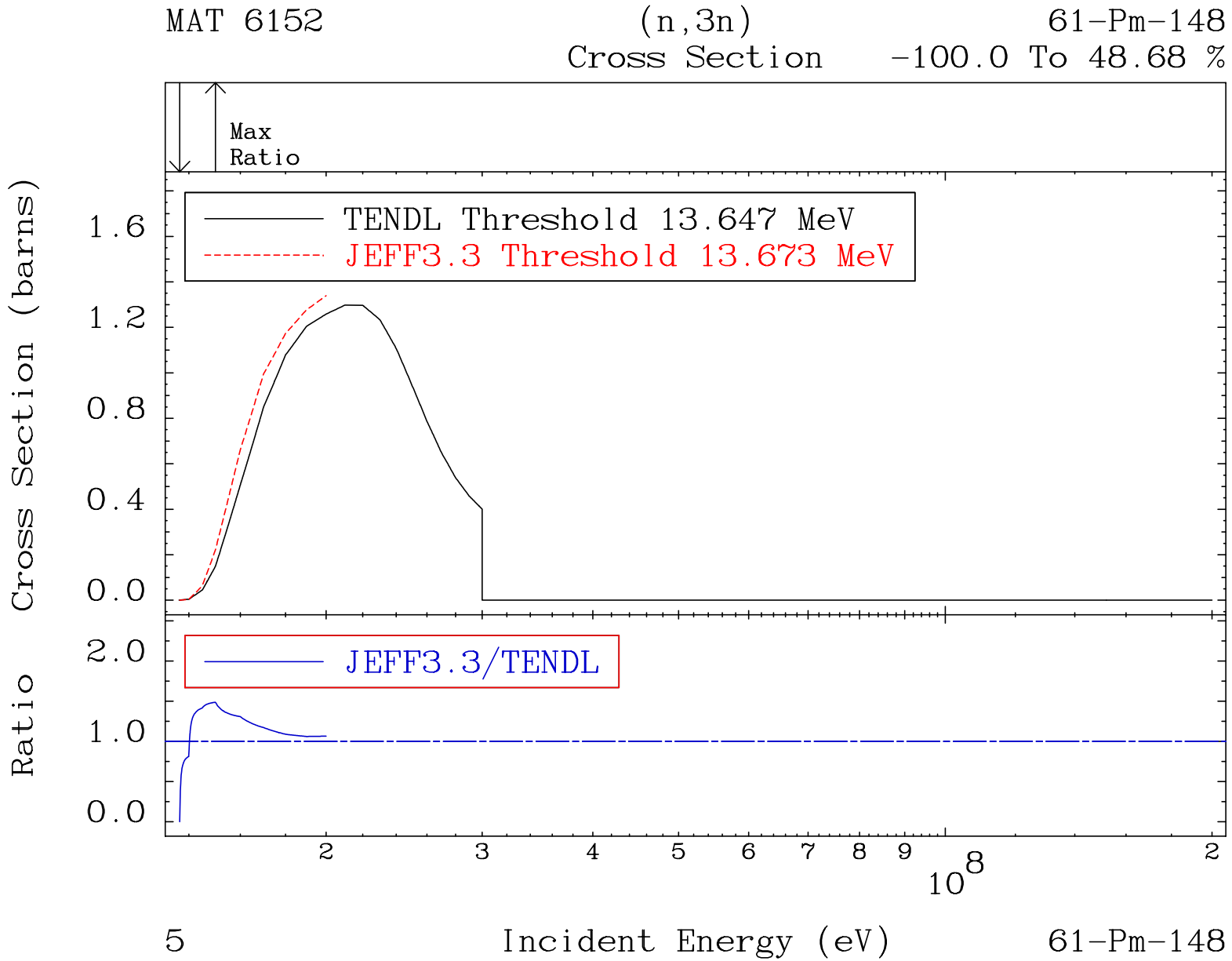
Press Mouse Button to Start

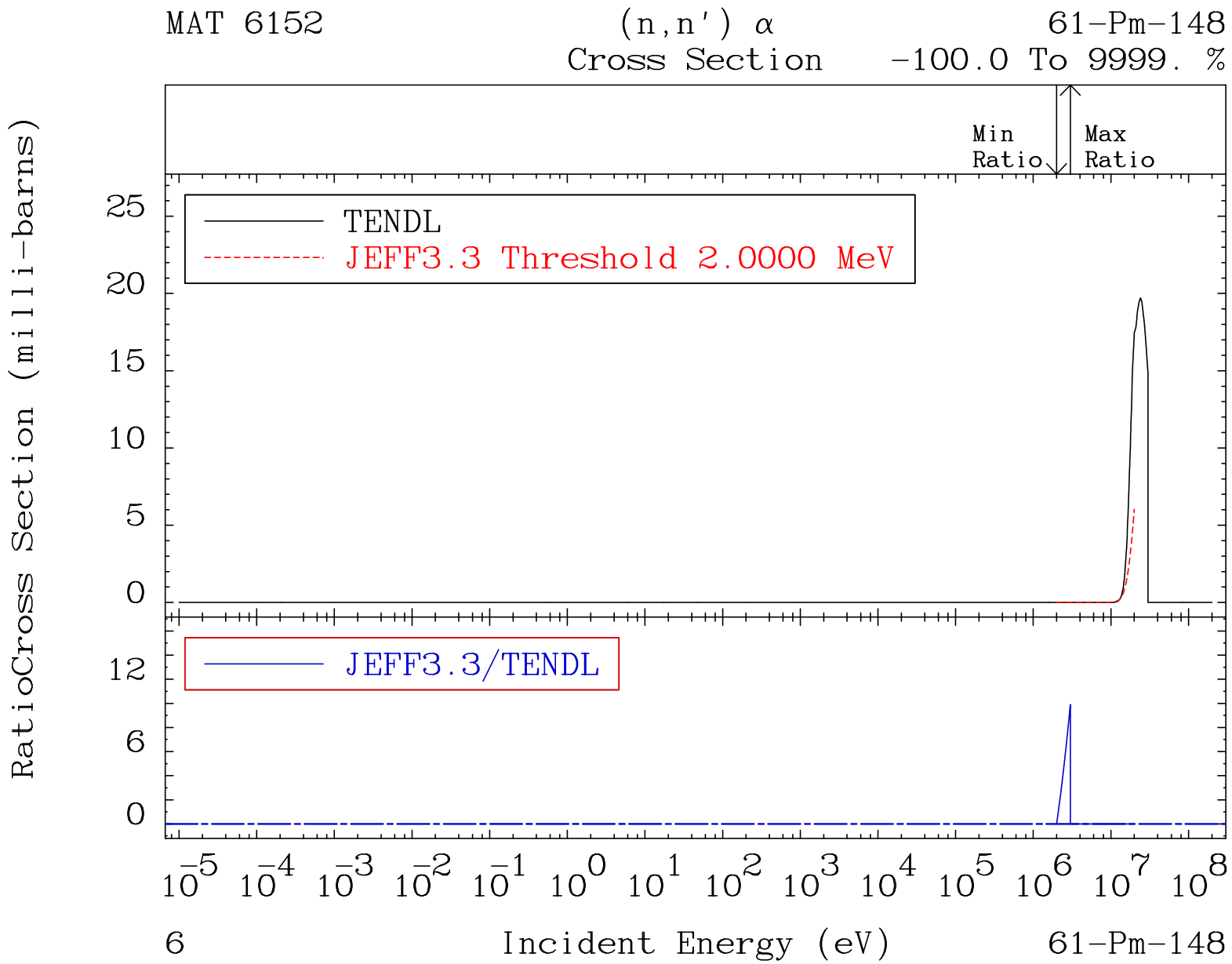

MAT 6152
Total
Cross Section
61-Pm-148
-99.54 To 943.0 %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
61-Pm-148

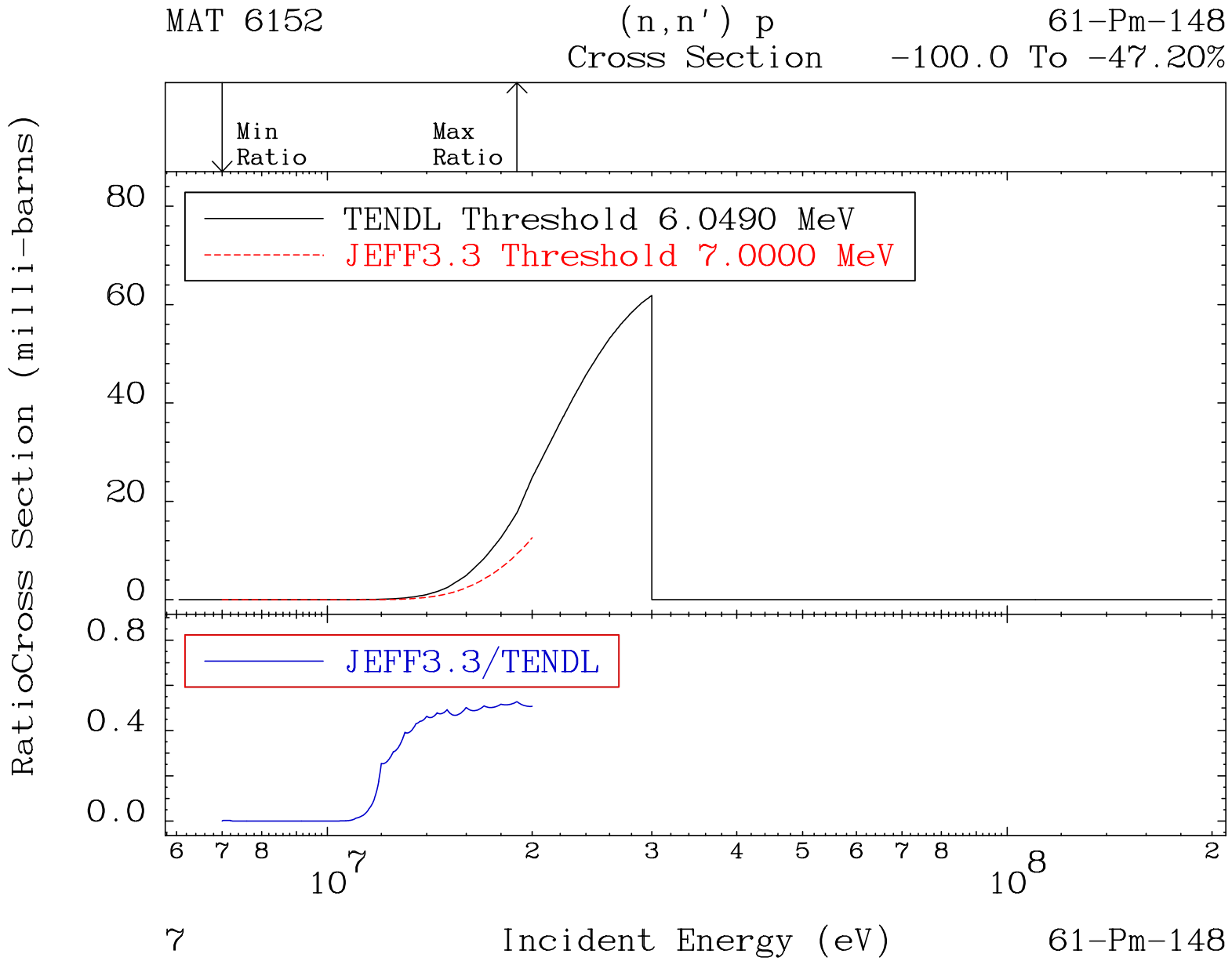

MAT 6152
Elastic
Cross Section
61-Pm-148
-99.92 To 676.8 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
61-Pm-148

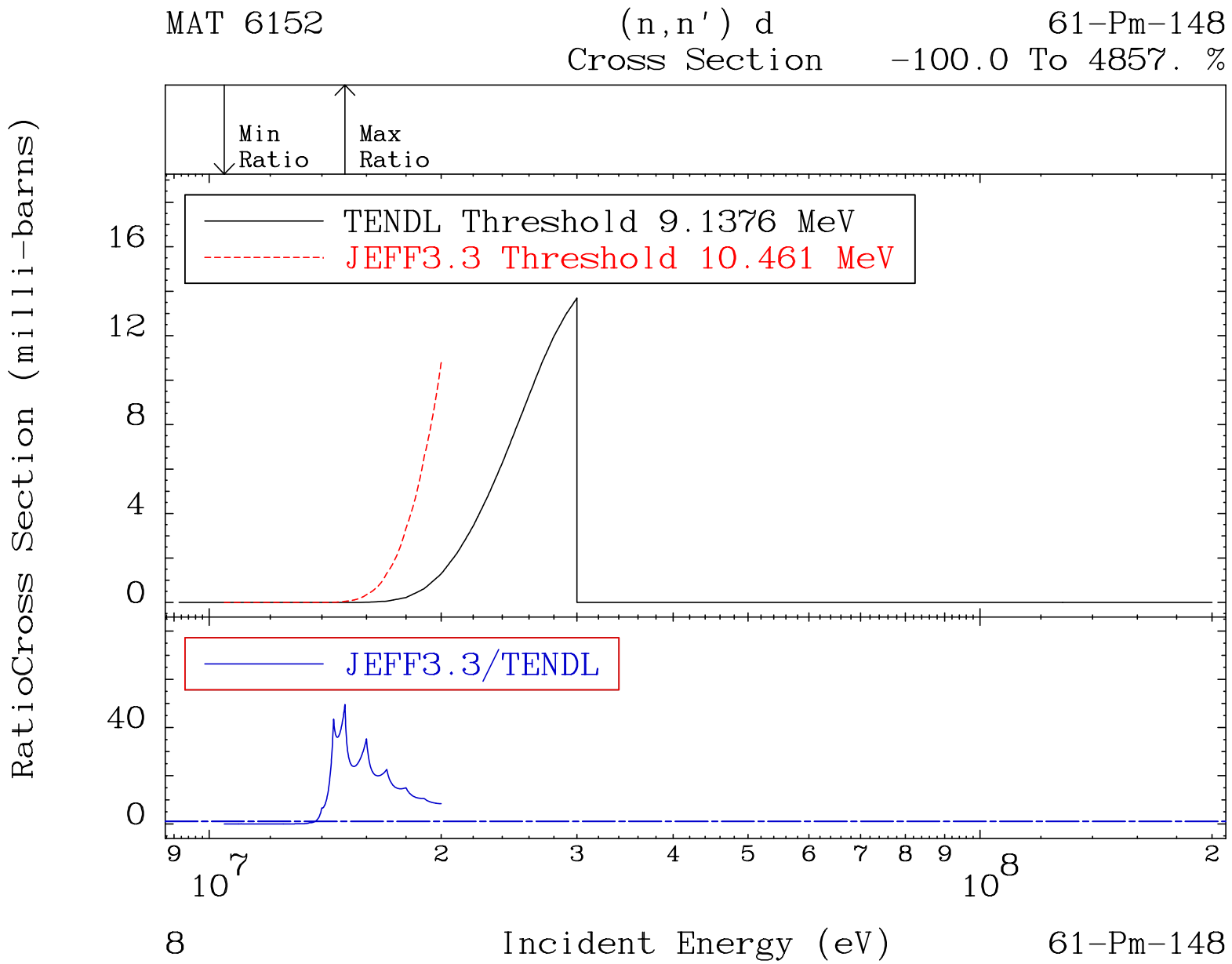

MAT 6152
Inelastic
Cross Section
61-Pm-148
-76.08 To 76.29 %
Max
Ratio
Min
Ratio
TENDL Threshold 76.216 keV
JEFF3.3 Threshold 76.216 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61-Pm-148
3

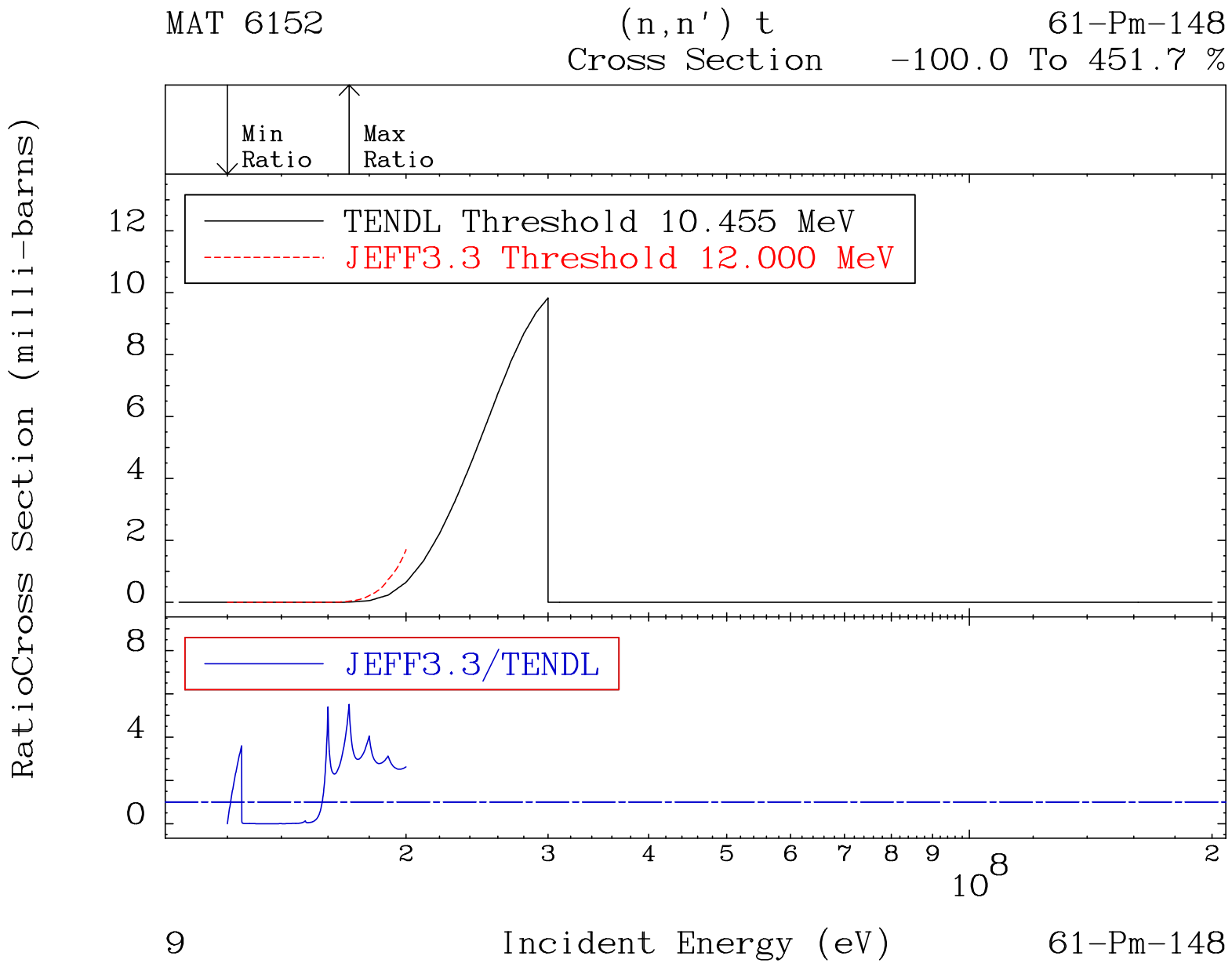

MAT 6152
(n,2n)
Cross Section
61-Pm-148
-100.0 To 6.047 %
Max
Ratio
TENDL Threshold 5.9354 MeV
JEFF3.3 Threshold 6.0607 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
4
61-Pm-148

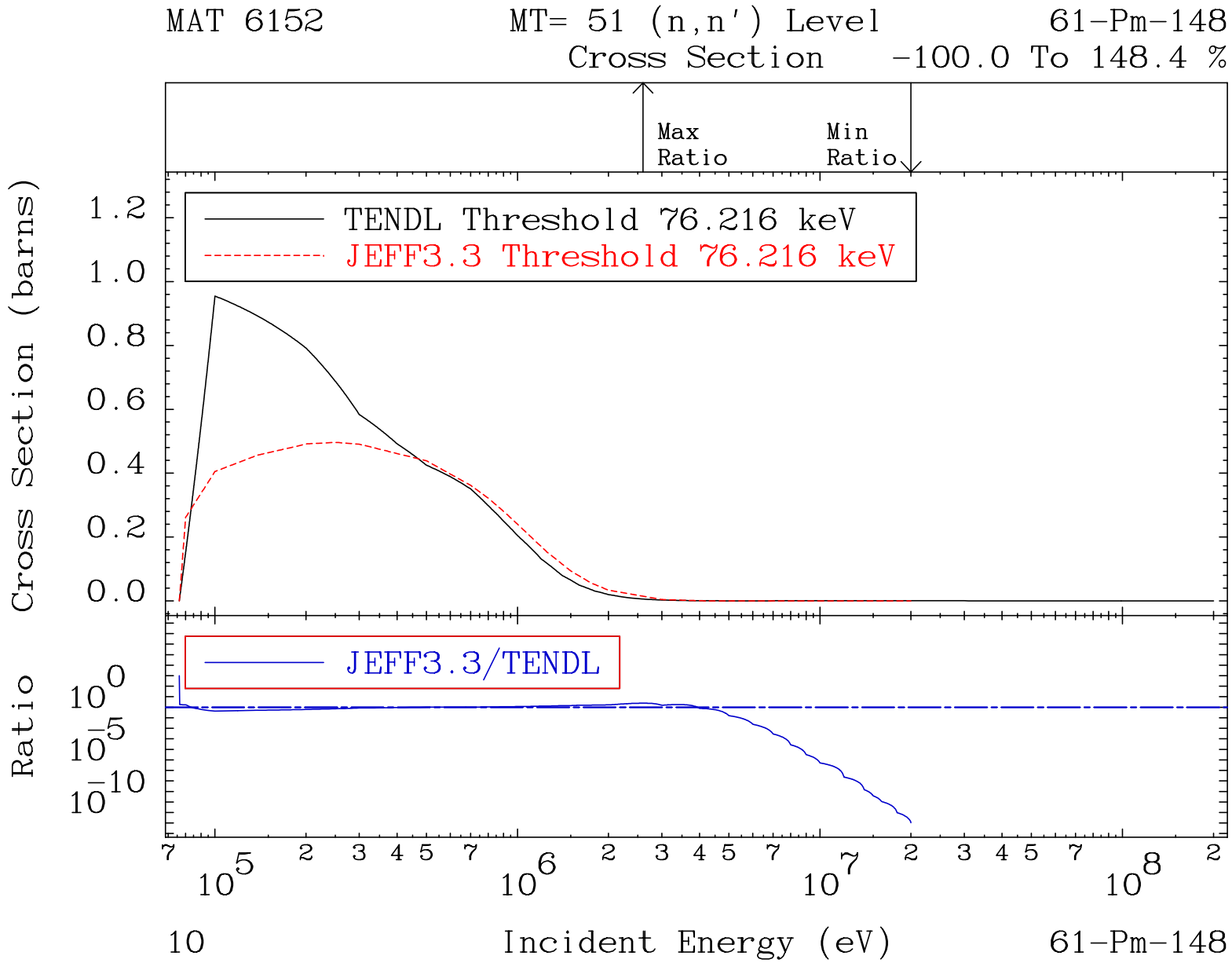

MAT 6152
(n,3n)
Cross Section
61-Pm-148
-100.0 To 48.68 %
Max
Ratio
TENDL Threshold 13.647 MeV
JEFF3.3 Threshold 13.673 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
61-Pm-148

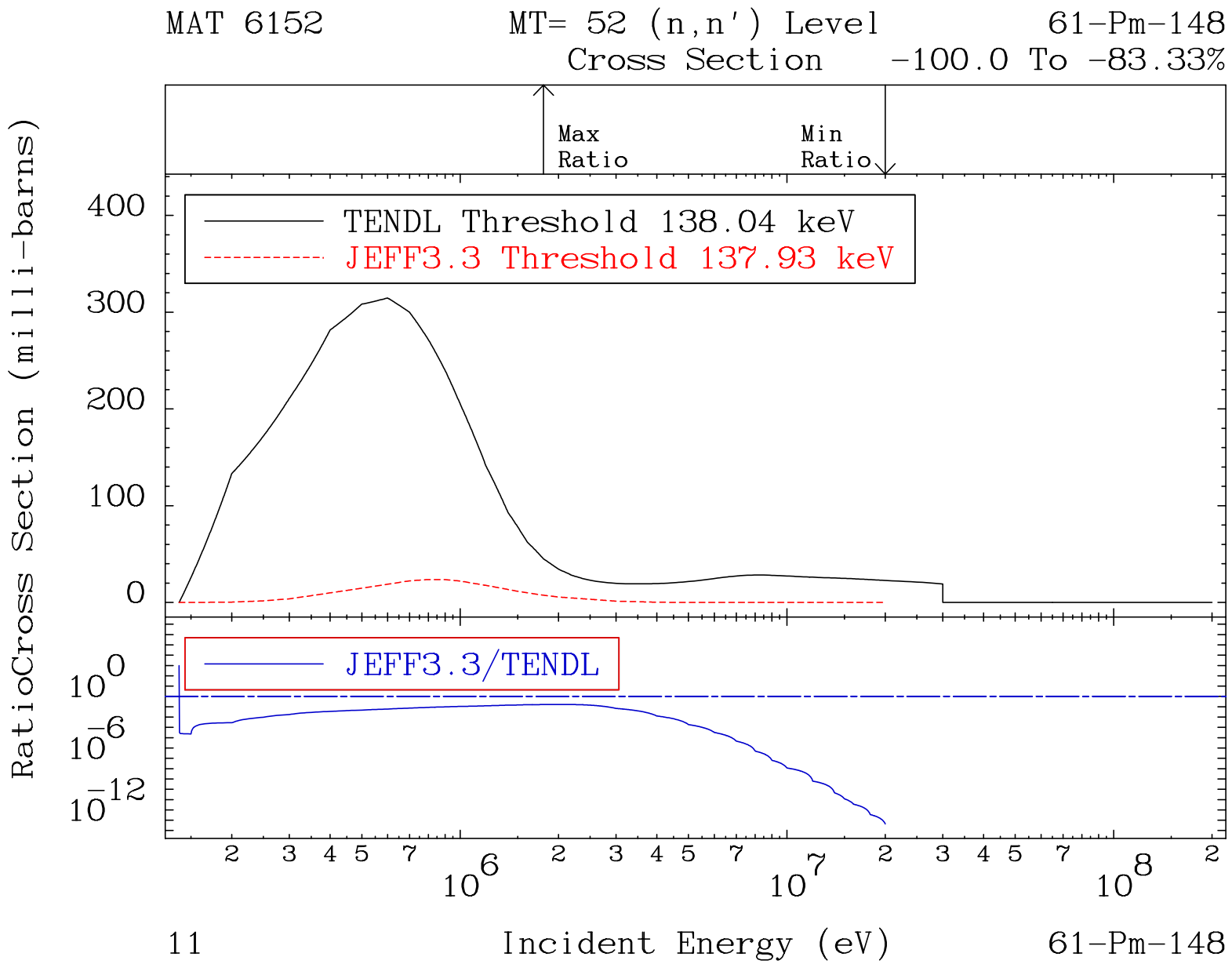

MAT 6152
(n,n') α
Cross Section
61-Pm-148
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 2.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
12
6
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
6
Incident Energy (eV)
61-Pm-148

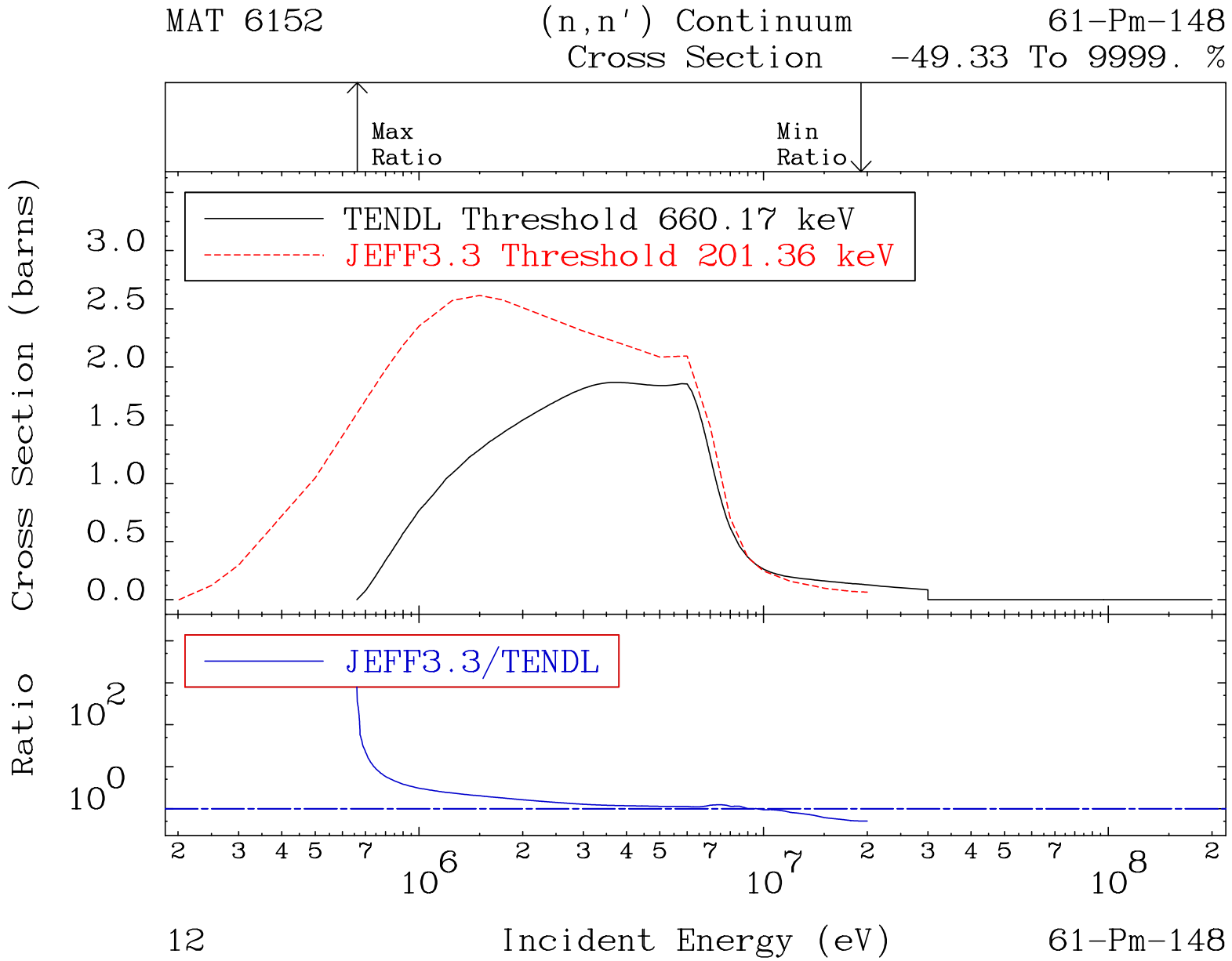

MAT 6152
(n,n') p
Cross Section
61-Pm-148
-100.0 To -47.20%
Min Ratio
Max Ratio
TENDL Threshold 6.0490 MeV
JEFF3.3 Threshold 7.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
0.8
0.4
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
61-Pm-148

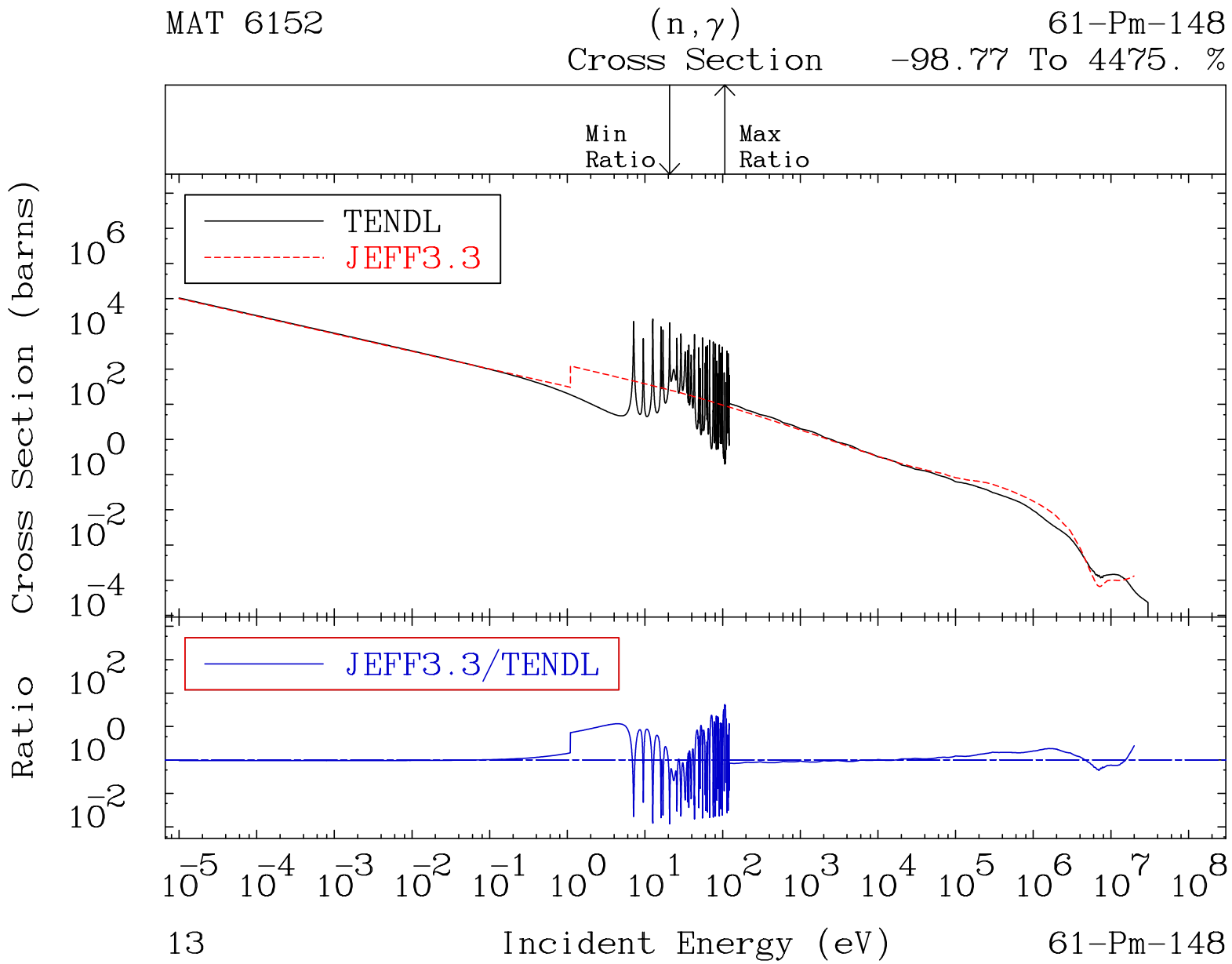

MAT 6152
(n,n') d
Cross Section
61-Pm-148
-100.0 To 4857. %
Min Ratio
Max Ratio
TENDL Threshold 9.1376 MeV
JEFF3.3 Threshold 10.461 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
40
0
9
2
3
4
5
6
7
8
9
2
10^7
10^8
8
Incident Energy (eV)
61-Pm-148

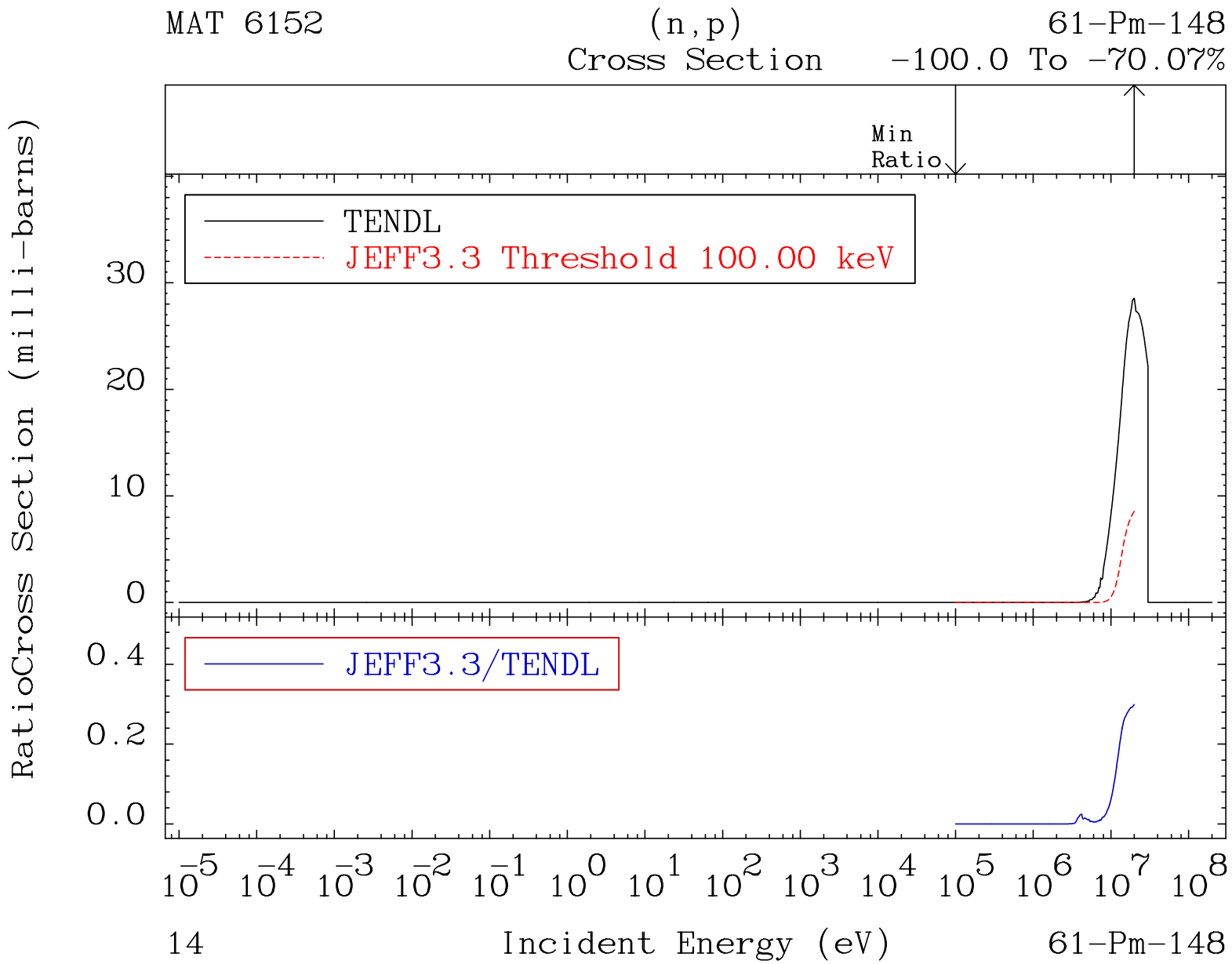

MAT 6152
(n,n') t
Cross Section
61-Pm-148
-100.0 To 451.7 %
Min Ratio
Max Ratio
TENDL Threshold 10.455 MeV
JEFF3.3 Threshold 12.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
61-Pm-148

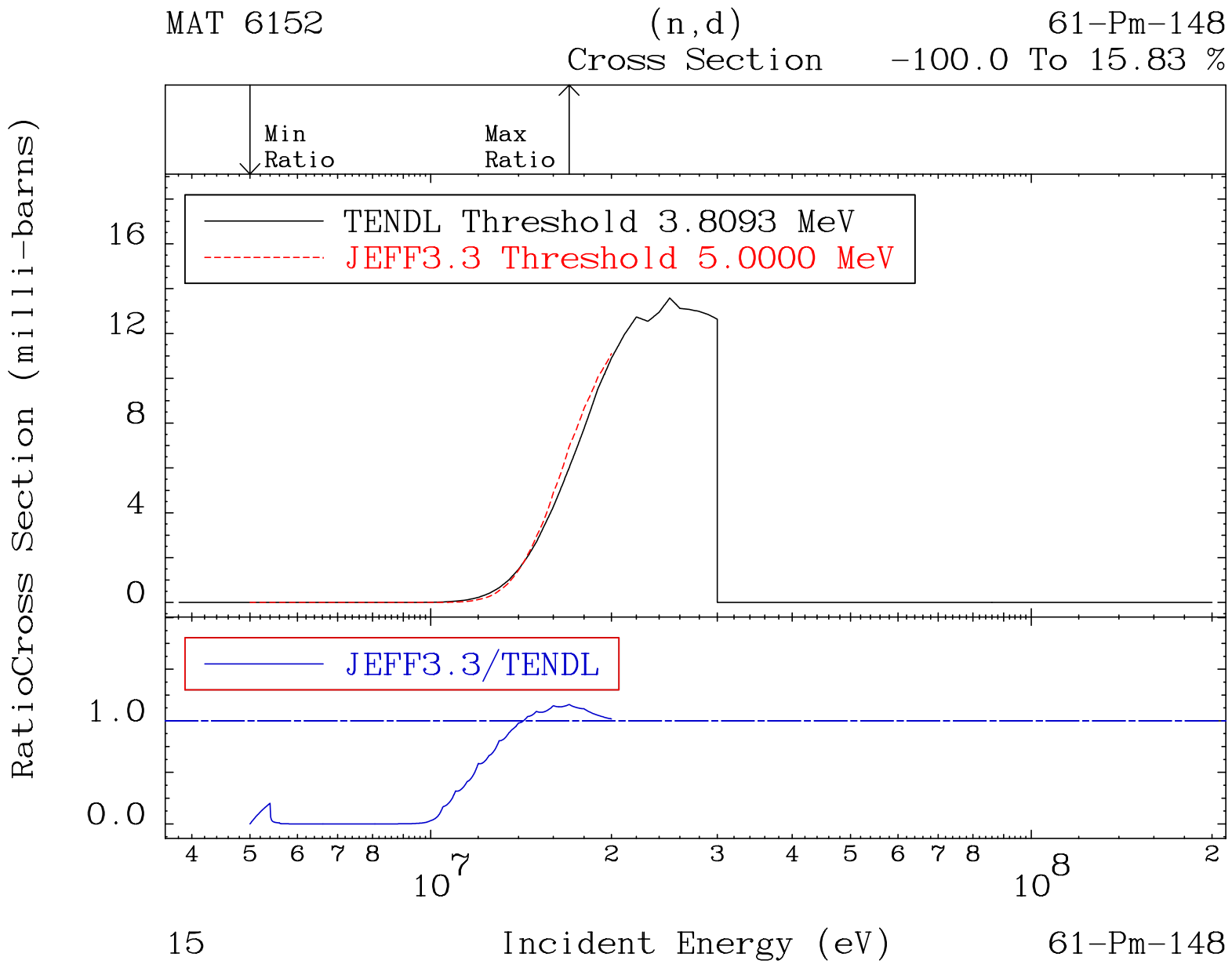

MAT 6152
MT= 51 (n,n') Level
61-Pm-148
Cross Section
-100.0 To 148.4 %
Max Ratio
Min Ratio
TENDL Threshold 76.216 keV
JEFF3.3 Threshold 76.216 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^0
10^-5
10^-10
7
2
3
4
5
7
10^5
10^6
10^7
10^8
10
Incident Energy (eV)
61-Pm-148

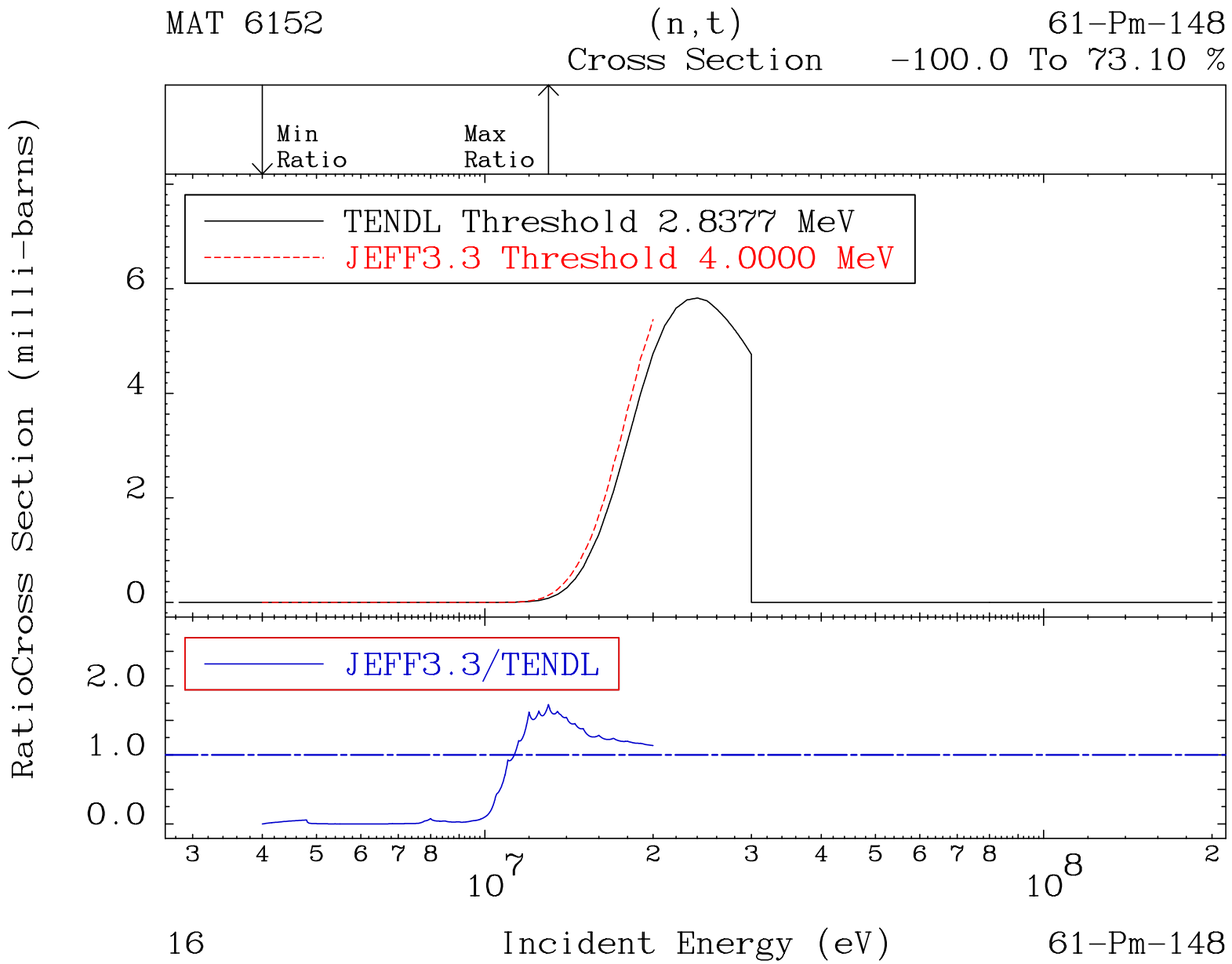

MAT 6152
MT= 52 (n,n') Level
61-Pm-148
Cross Section -100.0 To -83.33%
Max Ratio
Min Ratio
TENDL Threshold 138.04 keV
JEFF3.3 Threshold 137.93 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^0
10^-6
10^-12
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
11
Incident Energy (eV)
61-Pm-148

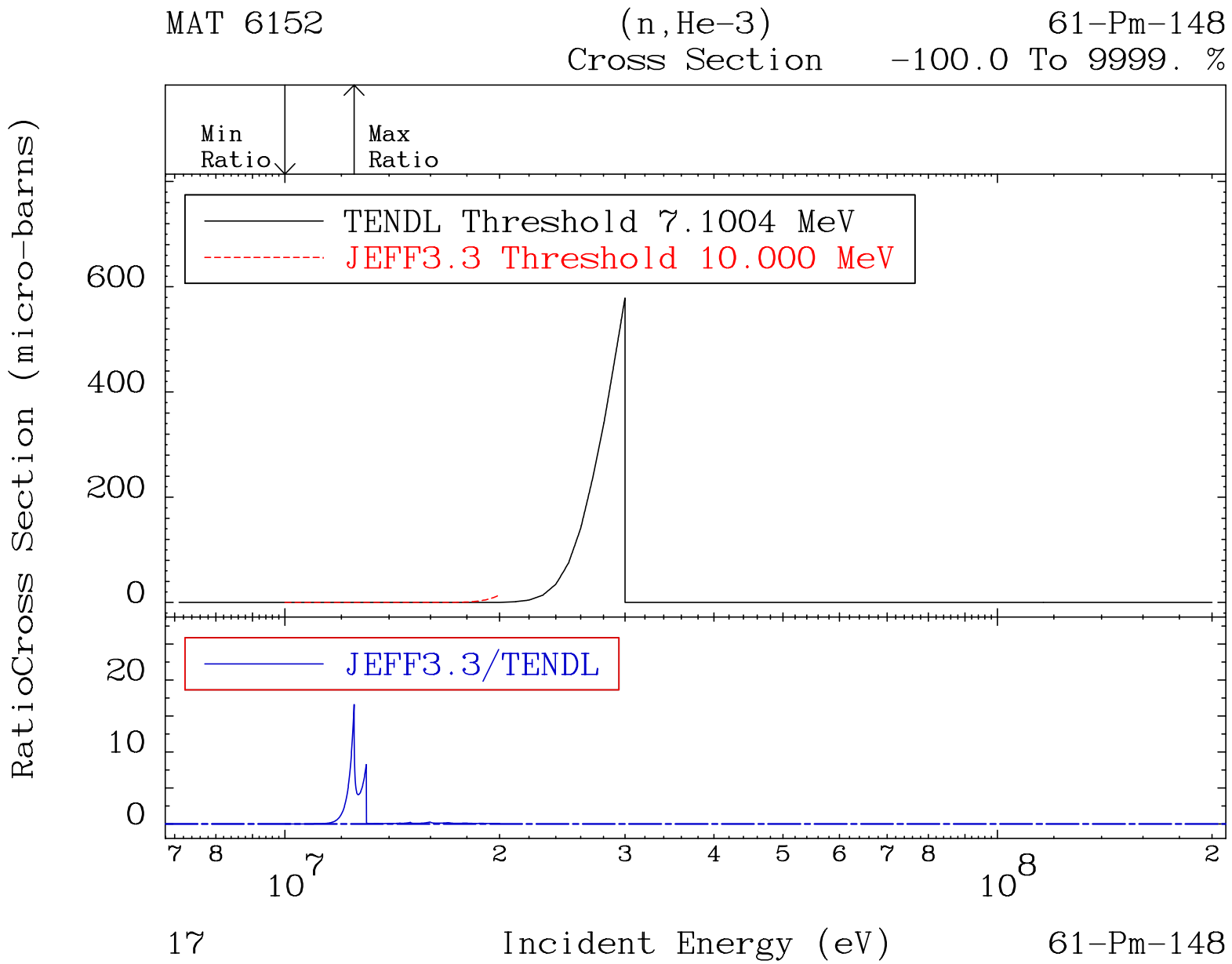

MAT 6152
(n,n') Continuum
Cross Section
61-Pm-148
-49.33 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 660.17 keV
JEFF3.3 Threshold 201.36 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
12
Incident Energy (eV)
61-Pm-148

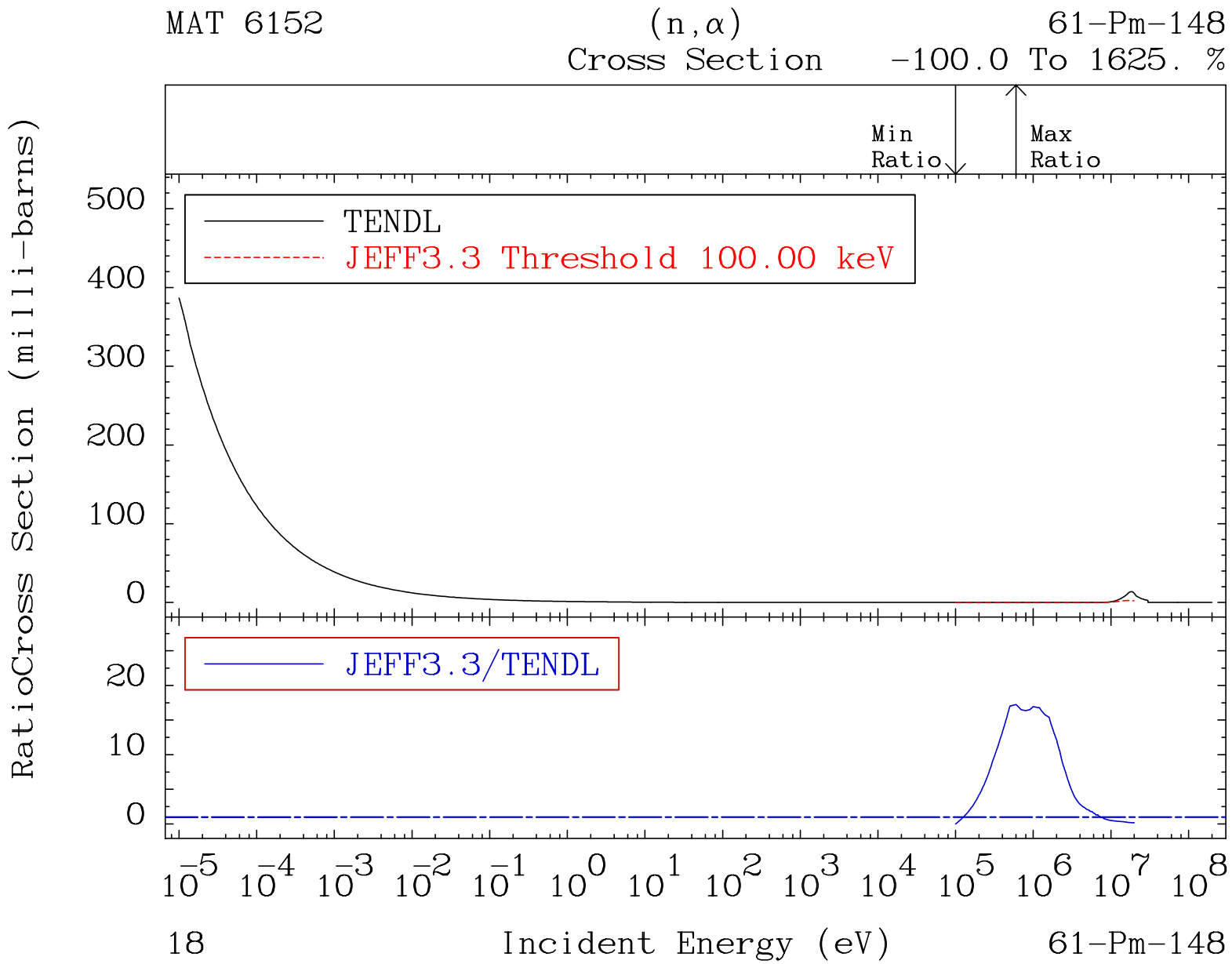

MAT 6152
(n,γ)
Cross Section
61-Pm-148
-98.77 To 4475. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
13
61-Pm-148

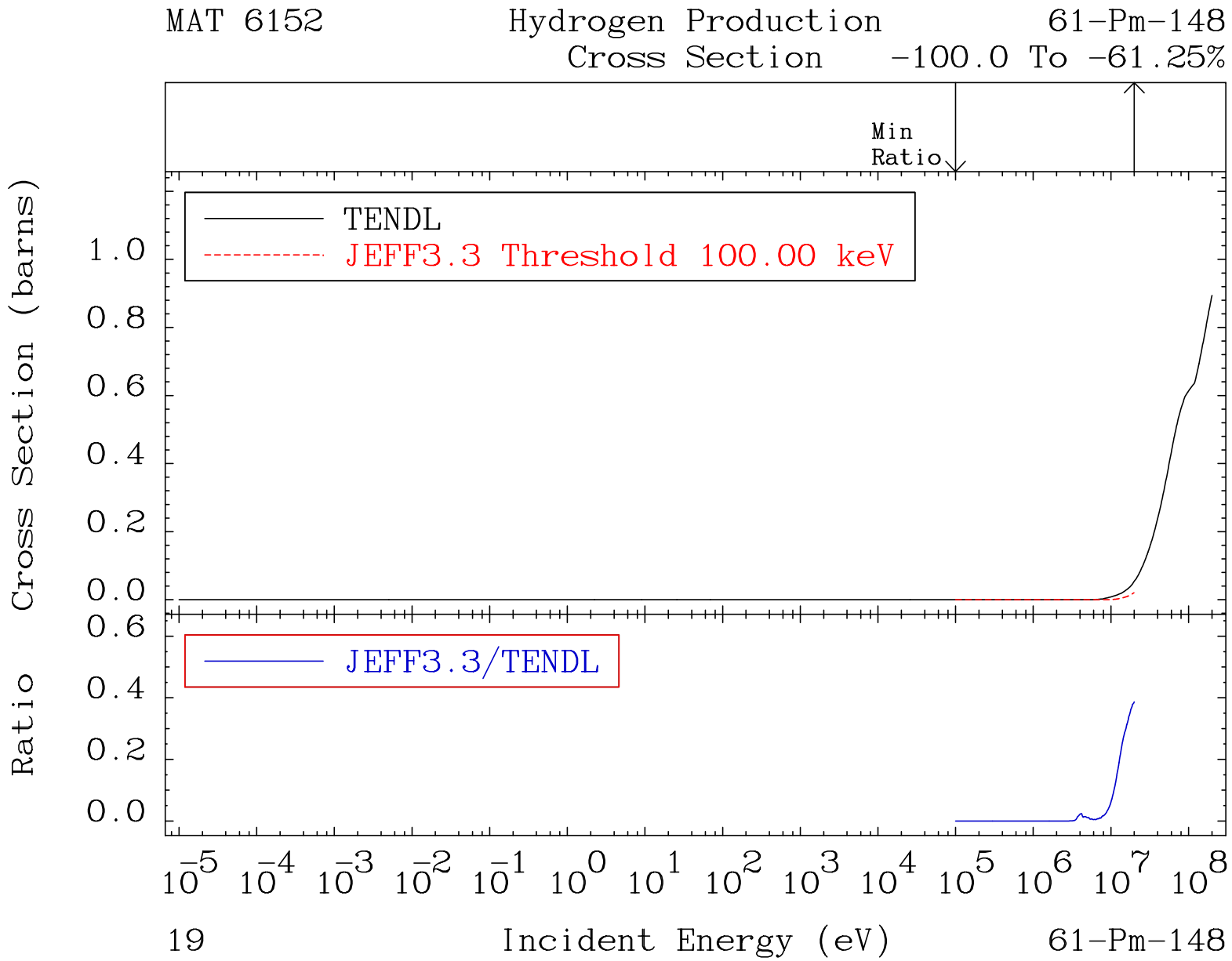

MAT 6152
(n,p)
Cross Section
61-Pm-148
-100.0 To -70.07%
Min
Ratio
TENDL
JEFF3.3 Threshold 100.00 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
20
10
0
0.4
0.2
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
14
Incident Energy (eV)
61-Pm-148

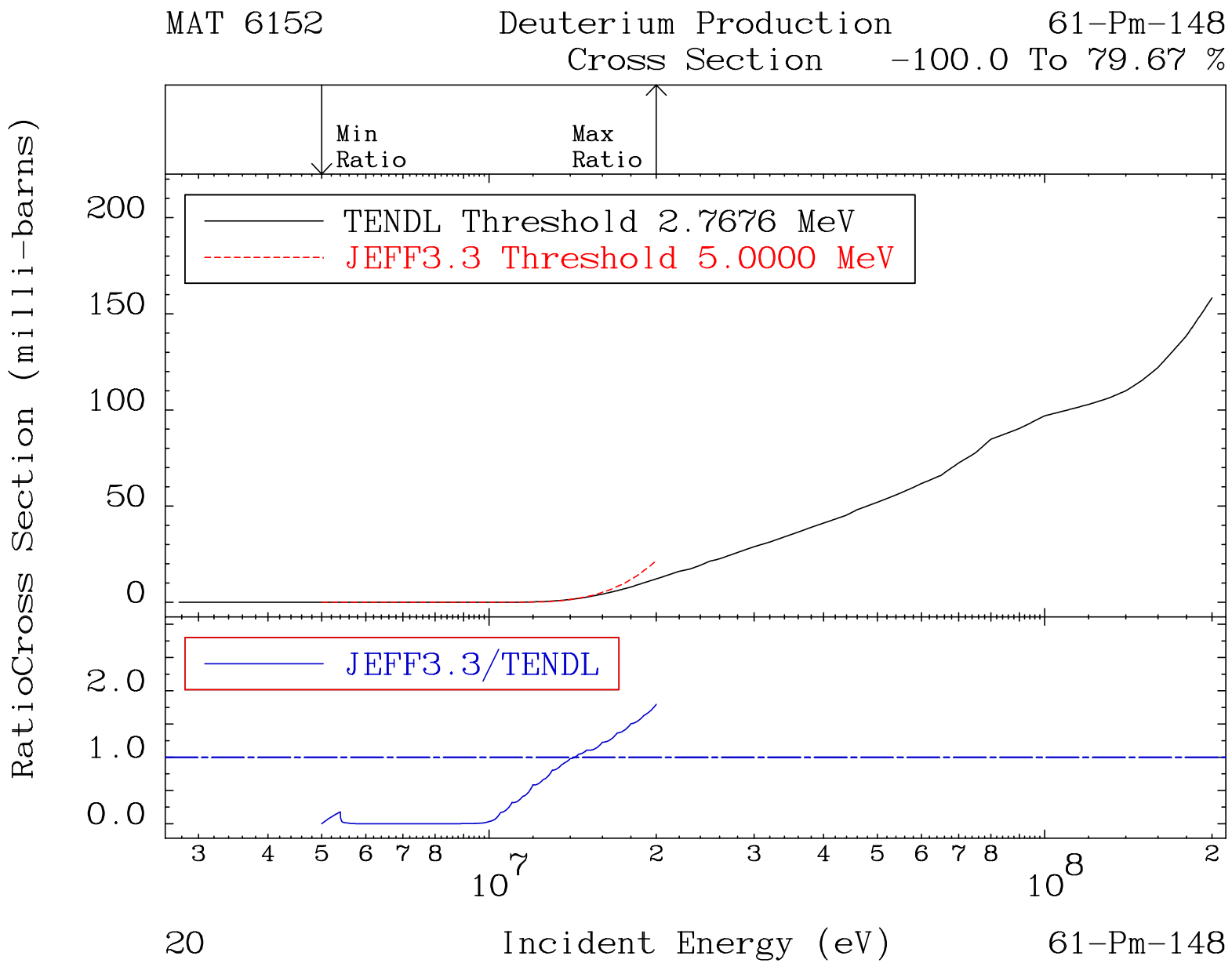

MAT 6152
(n,d)
Cross Section
61-Pm-148
-100.0 To 15.83 %
Min Ratio
Max Ratio
TENDL Threshold 3.8093 MeV
JEFF3.3 Threshold 5.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
61-Pm-148

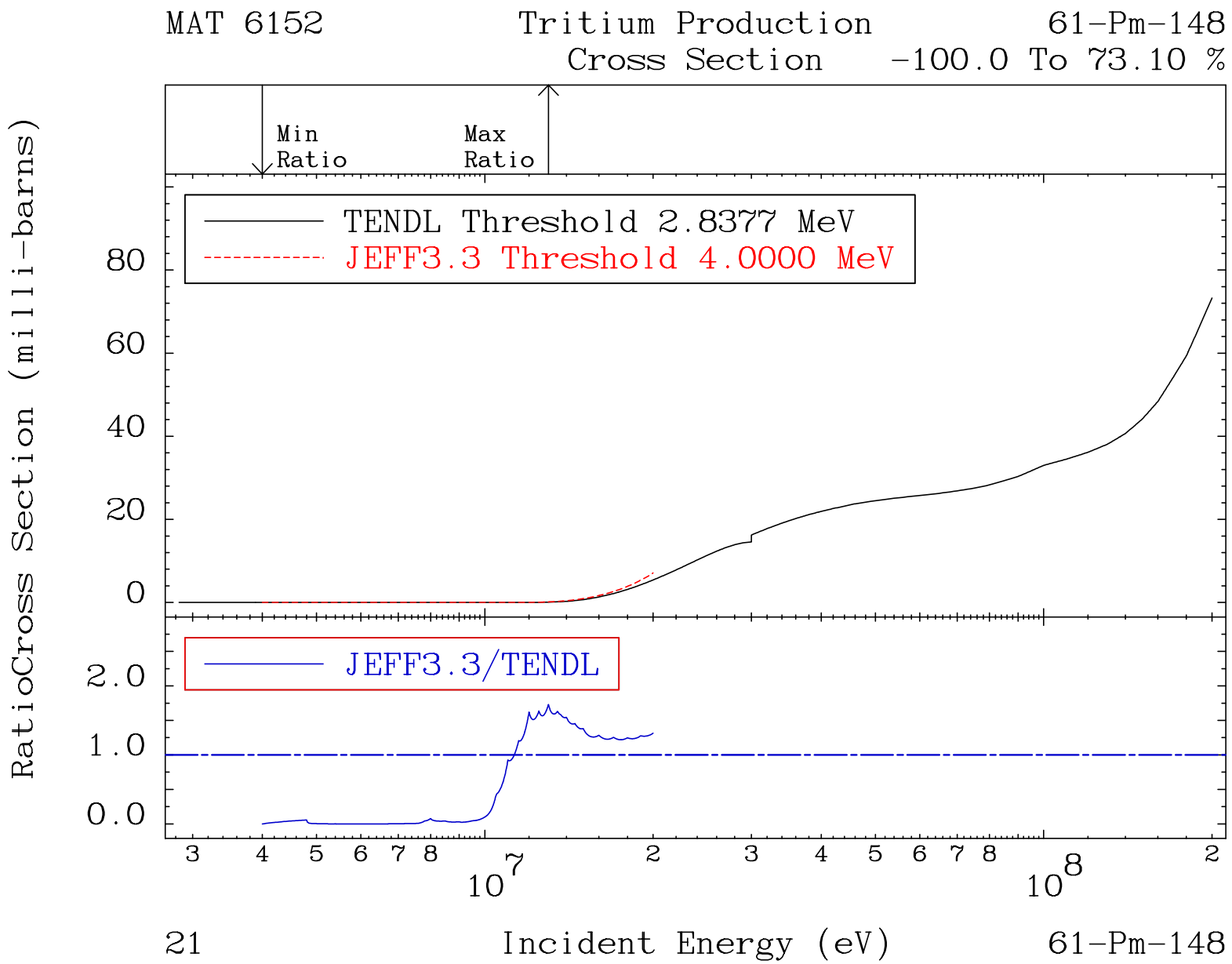

MAT 6152
(n,t)
Cross Section
61-Pm-148
-100.0 To 73.10 %
Min Ratio
Max Ratio
TENDL Threshold 2.8377 MeV
JEFF3.3 Threshold 4.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
61-Pm-148

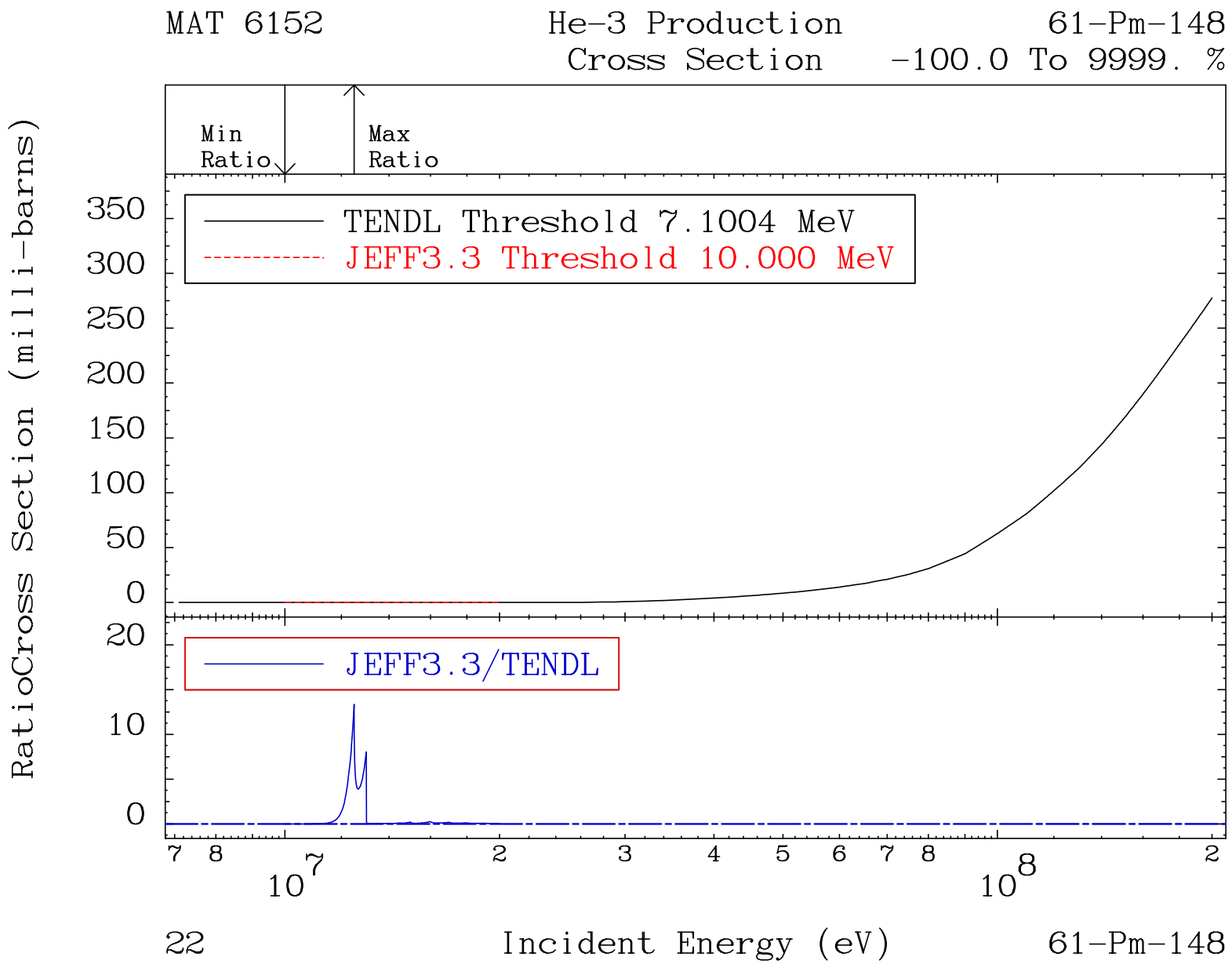

MAT 6152
(n,He-3)
61-Pm-148
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.1004 MeV
JEFF3.3 Threshold 10.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
600
400
200
0
20
10
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
61-Pm-148

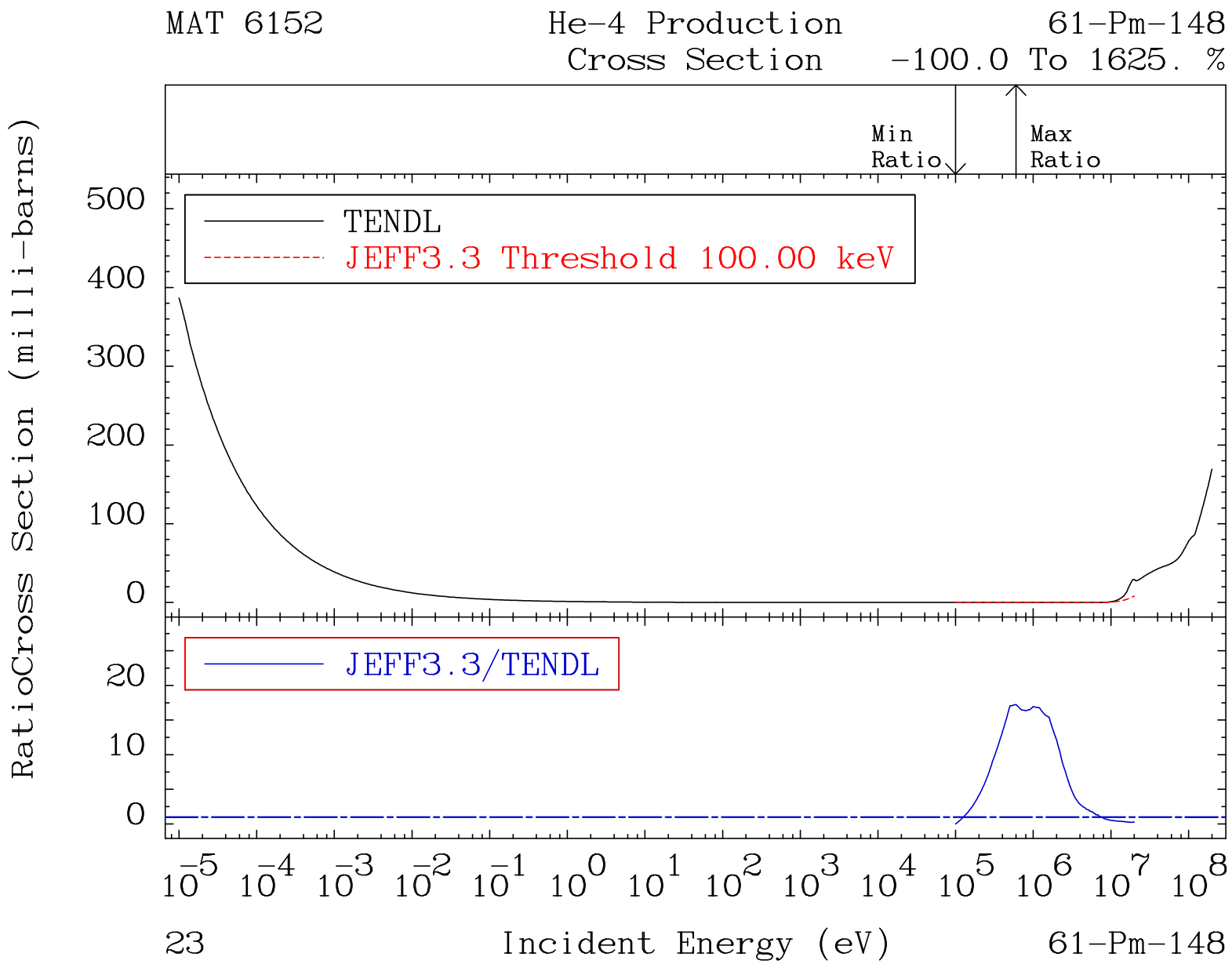

MAT 6152
(n,α)
61-Pm-148
Cross Section
-100.0 To 1625. %
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 100.00 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
20
10
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
18
Incident Energy (eV)
61-Pm-148

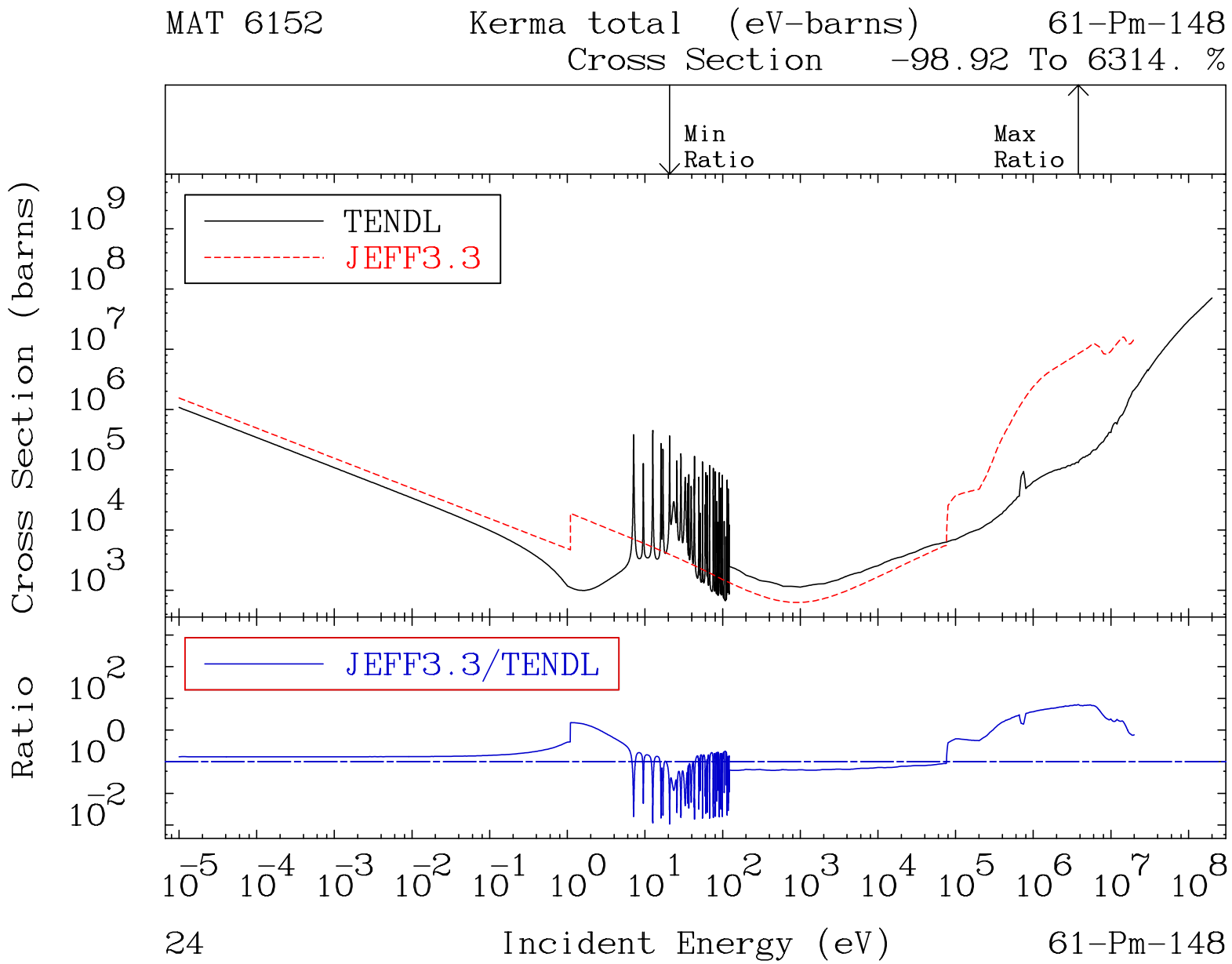

MAT 6152
Hydrogen Production
61-Pm-148
Cross Section -100.0 To -61.25%
Min
Ratio
TENDL
JEFF3.3 Threshold 100.00 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
0.6
0.4
0.2
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
19
Incident Energy (eV)
61-Pm-148

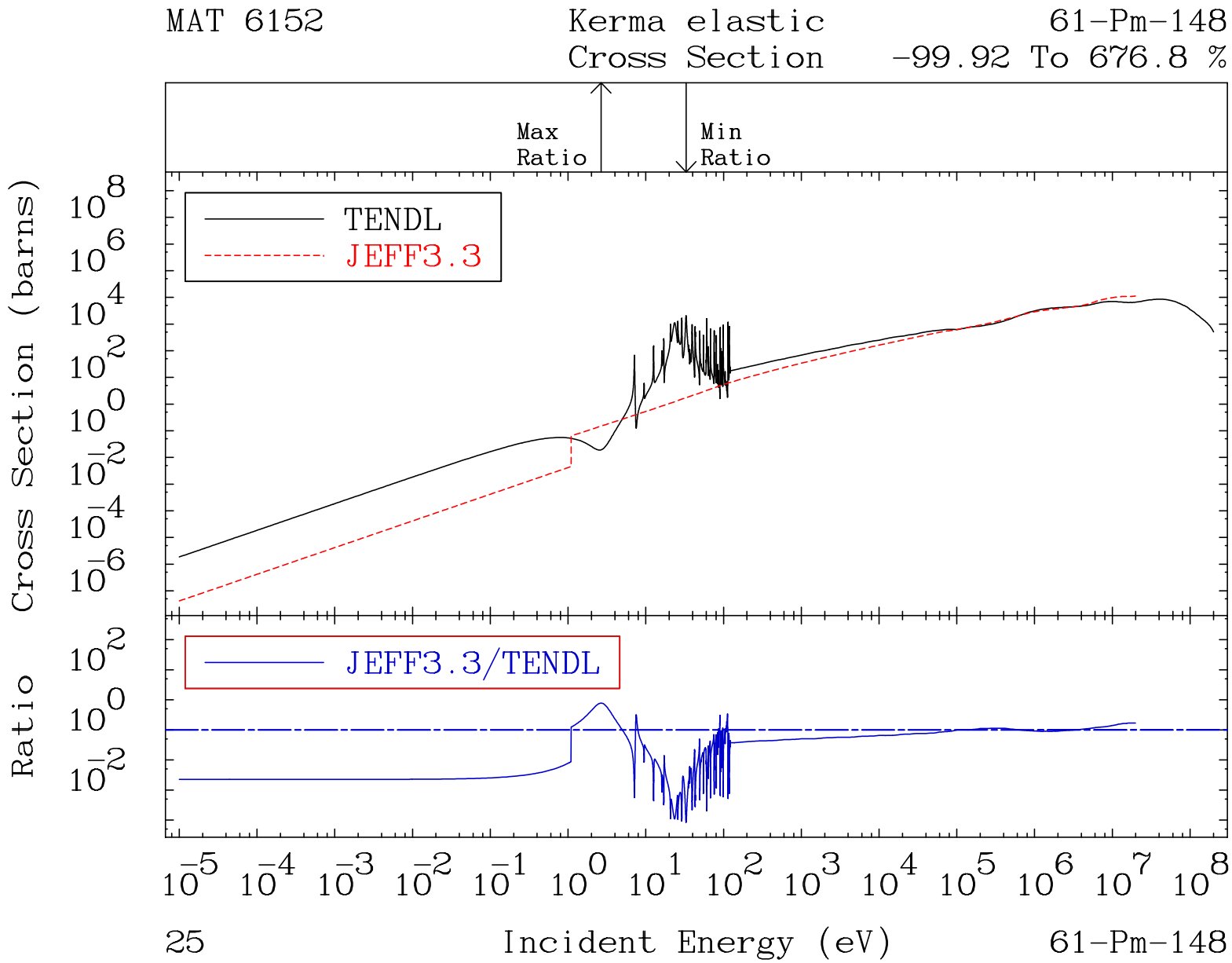

MAT 6152
Deuterium Production
61-Pm-148
Cross Section -100.0 To 79.67 %
Min Ratio
Max Ratio
TENDL Threshold 2.7676 MeV
JEFF3.3 Threshold 5.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
61-Pm-148

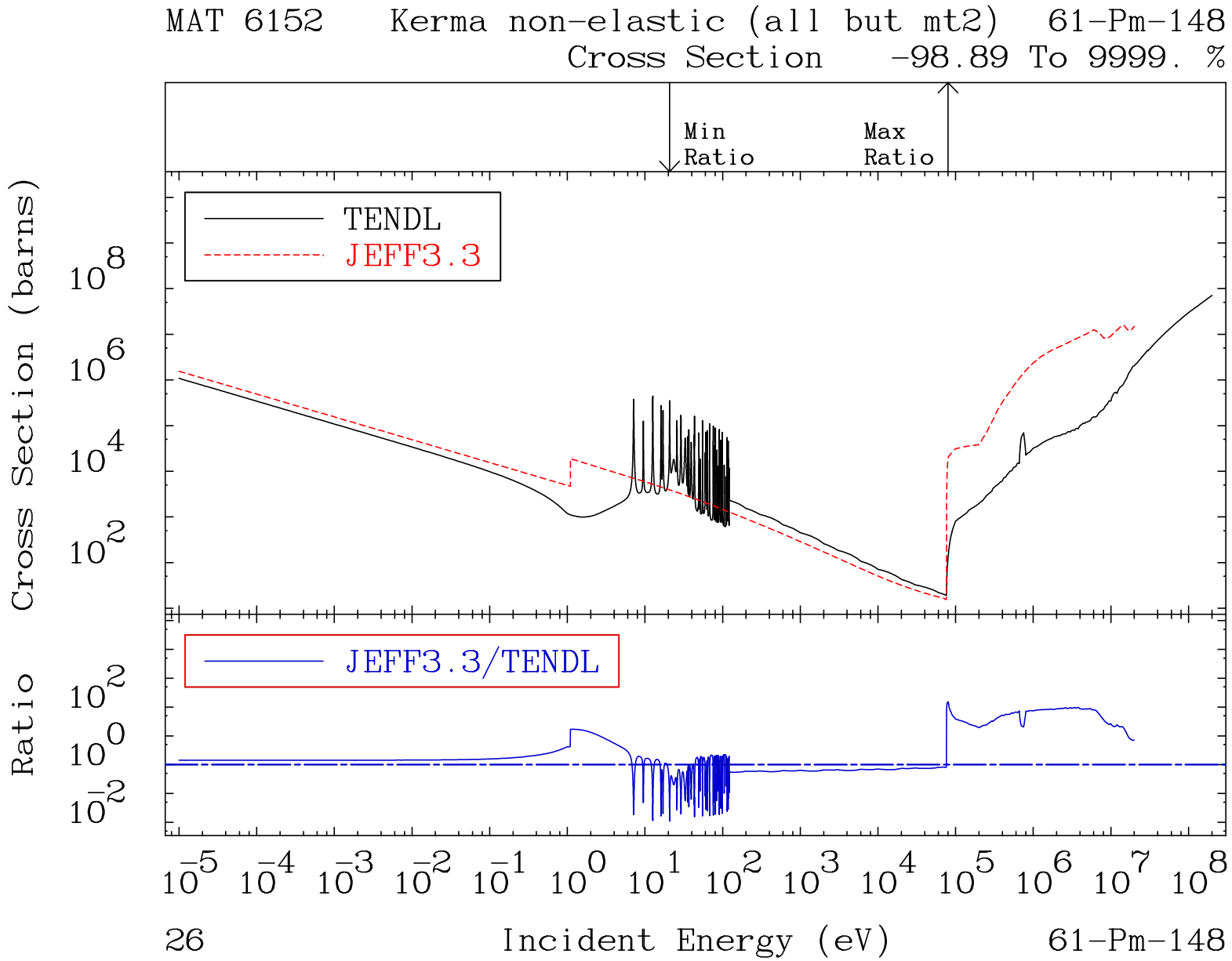

MAT 6152
Tritium Production
61-Pm-148
Cross Section
-100.0 To 73.10 %
Min Ratio
Max Ratio
TENDL Threshold 2.8377 MeV
JEFF3.3 Threshold 4.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
61-Pm-148

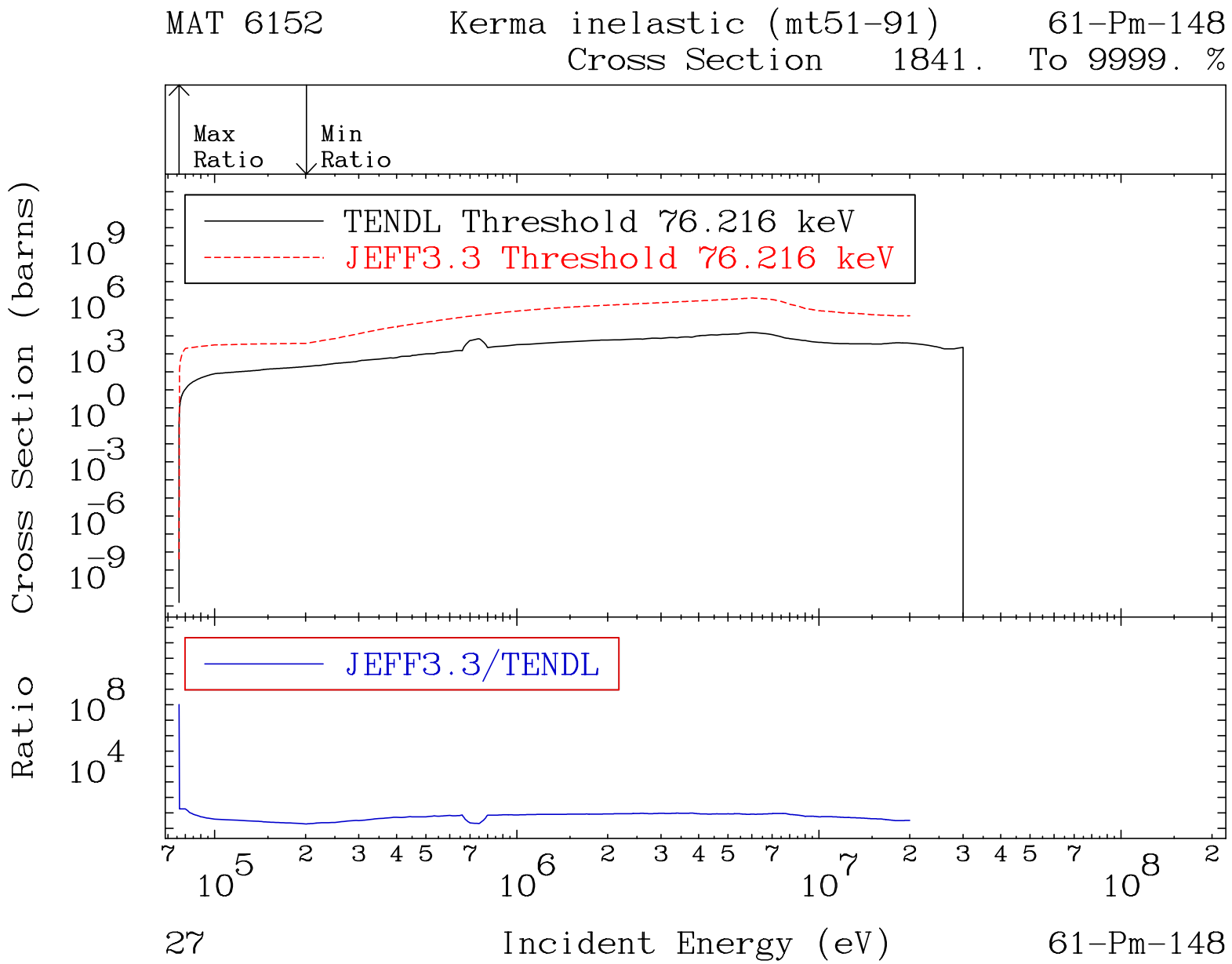

MAT 6152
He-3 Production
61-Pm-148
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.1004 MeV
JEFF3.3 Threshold 10.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
20
10
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
61-Pm-148

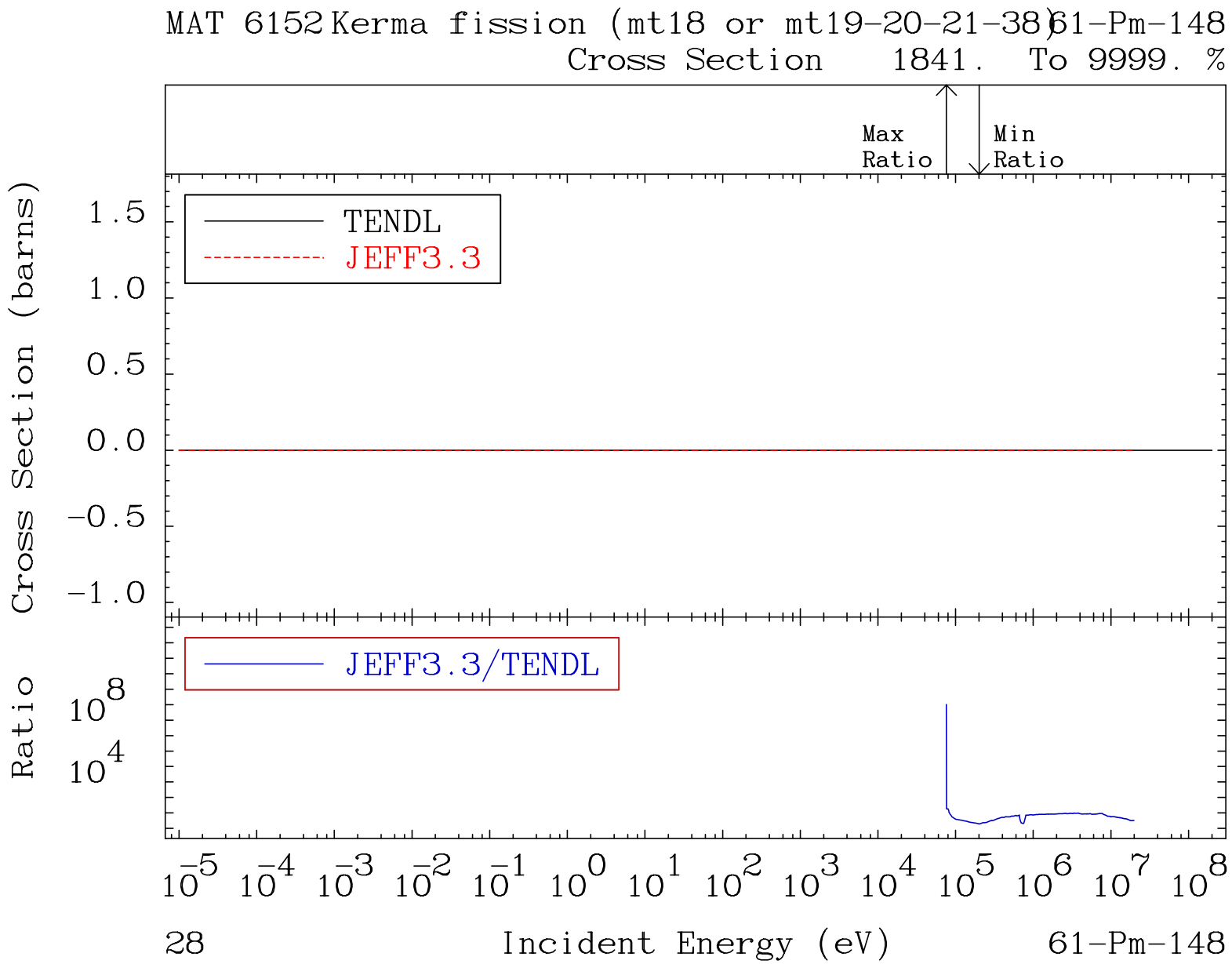

MAT 6152
He-4 Production
Cross Section
61-Pm-148
-100.0 To 1625. %
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 100.00 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
20
10
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
23
Incident Energy (eV)
61-Pm-148

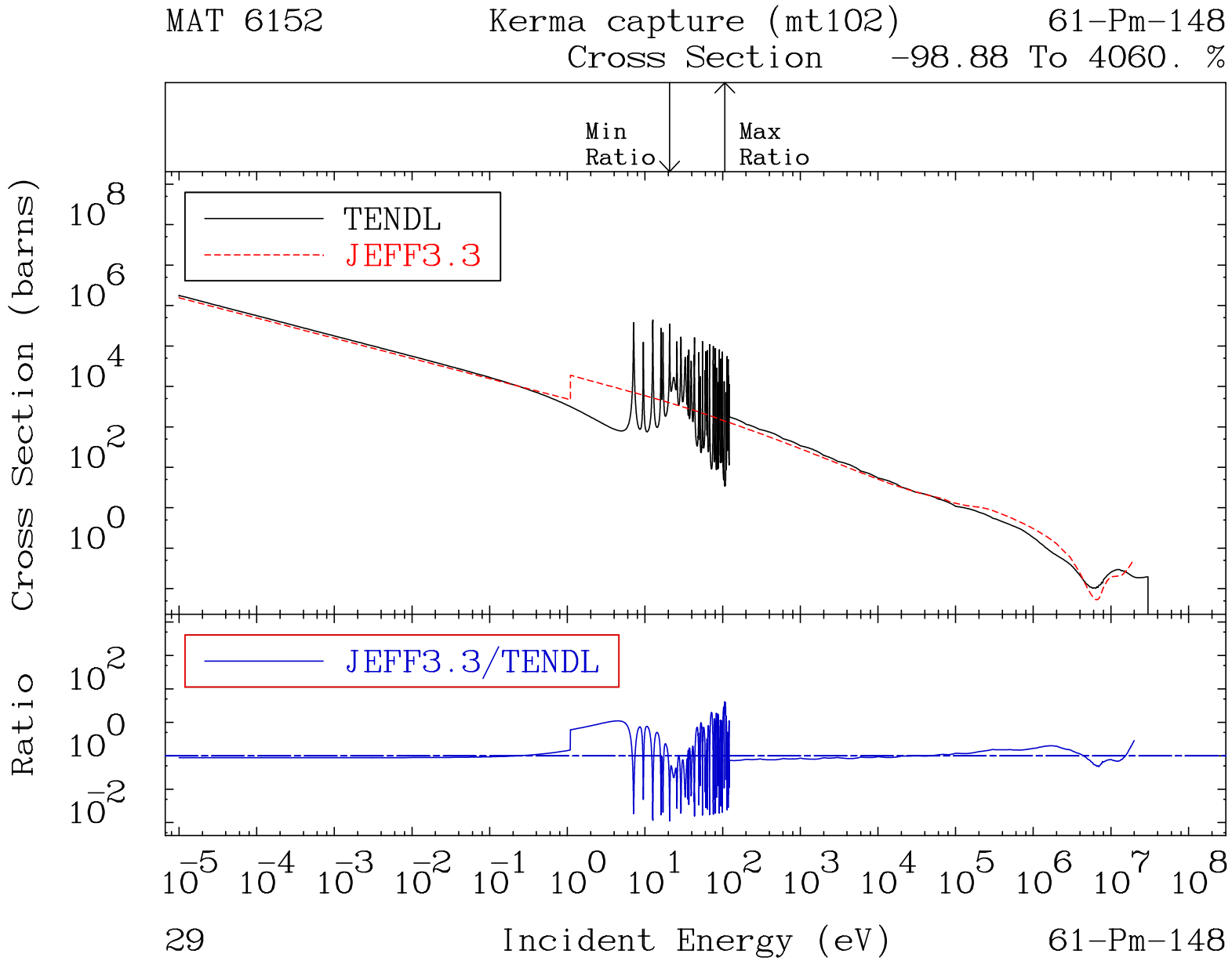

MAT 6152
Kerma total (eV-barns)
61-Pm-148
Cross Section -98.92 To 6314. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
24
61-Pm-148

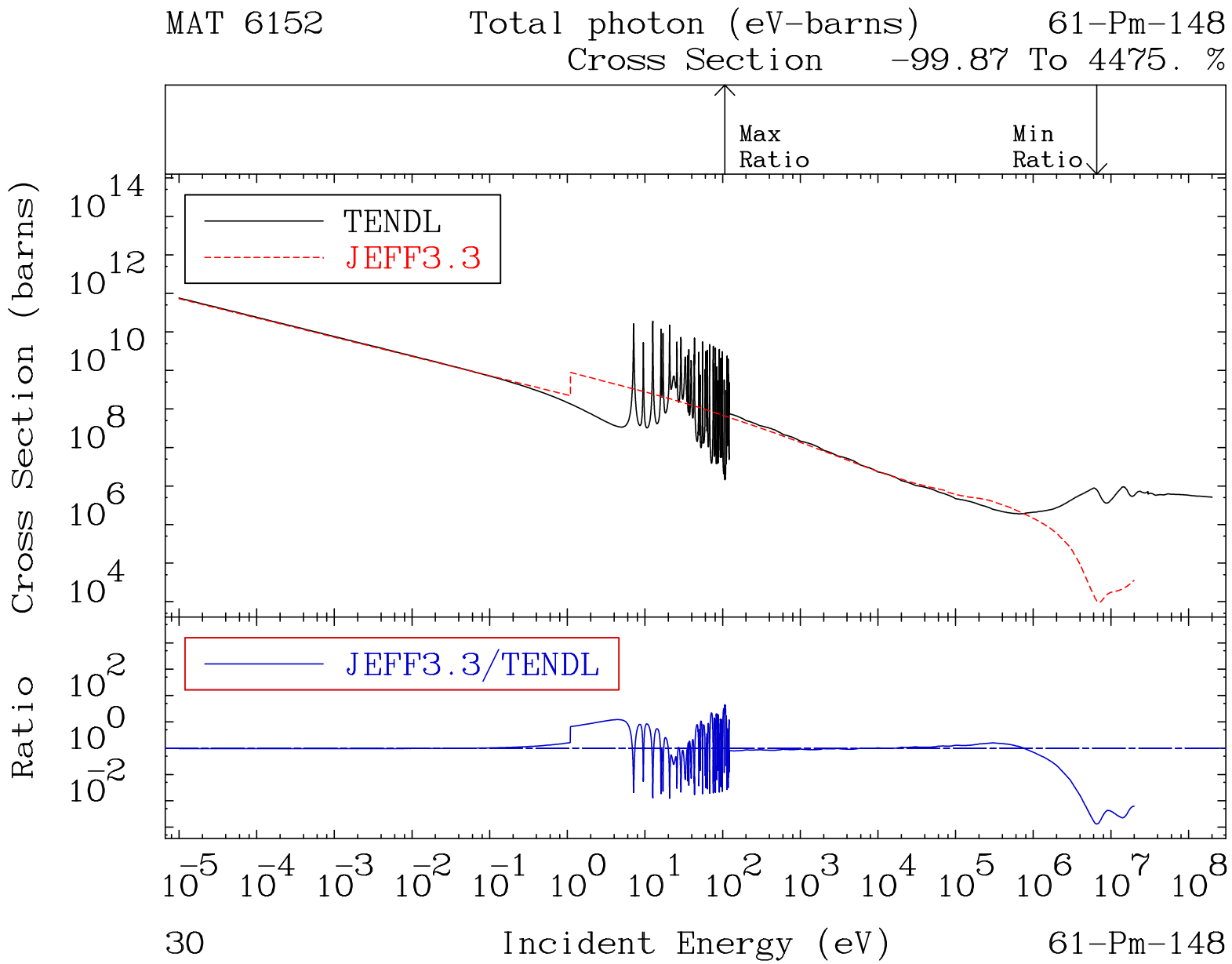

MAT 6152
Kerma elastic
Cross Section
61-Pm-148
-99.92 To 676.8 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
25
61-Pm-148

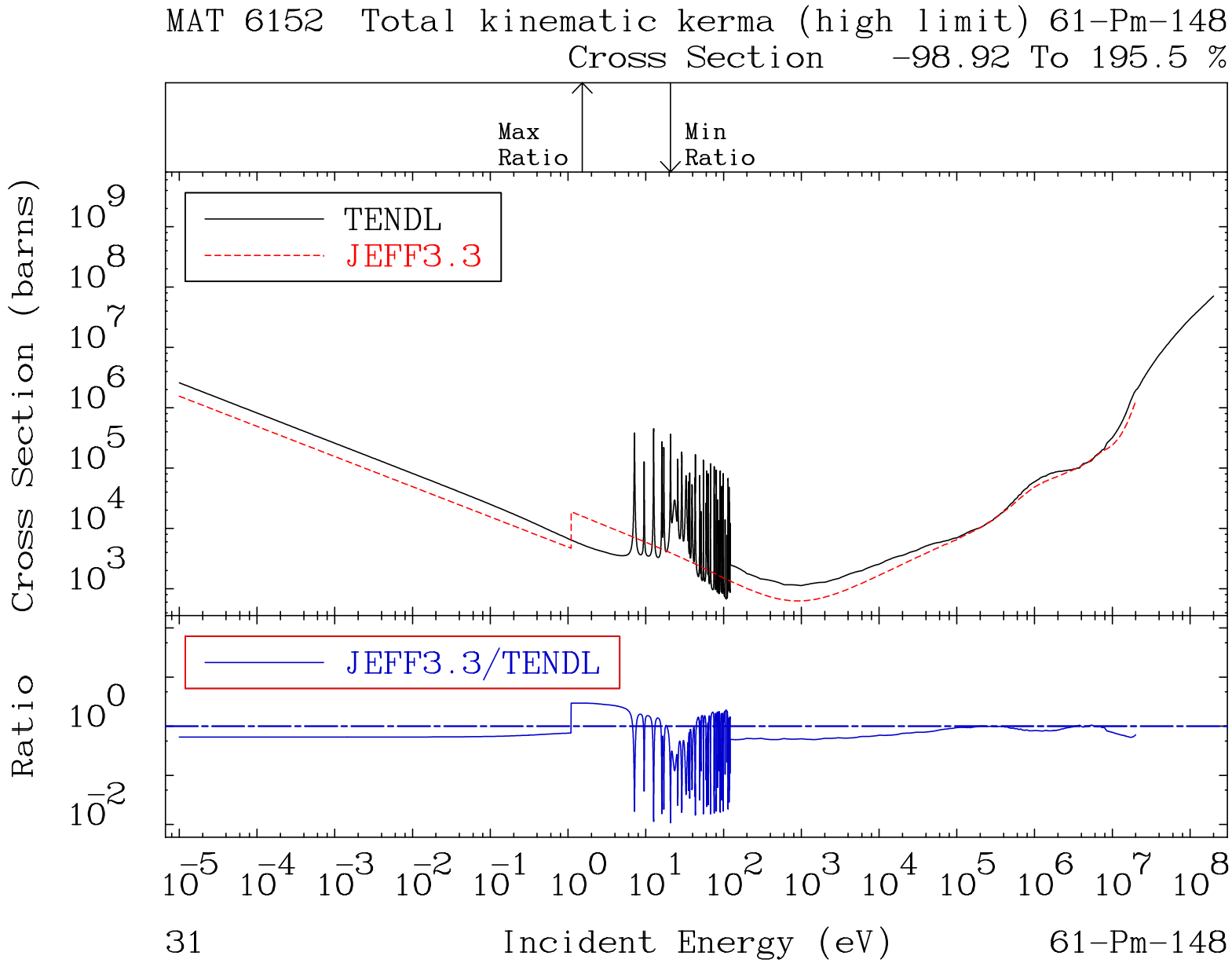

MAT 6152 Kerma non-elastic (all but mt2) 61-Pm-148
Cross Section -98.89 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
61-Pm-148

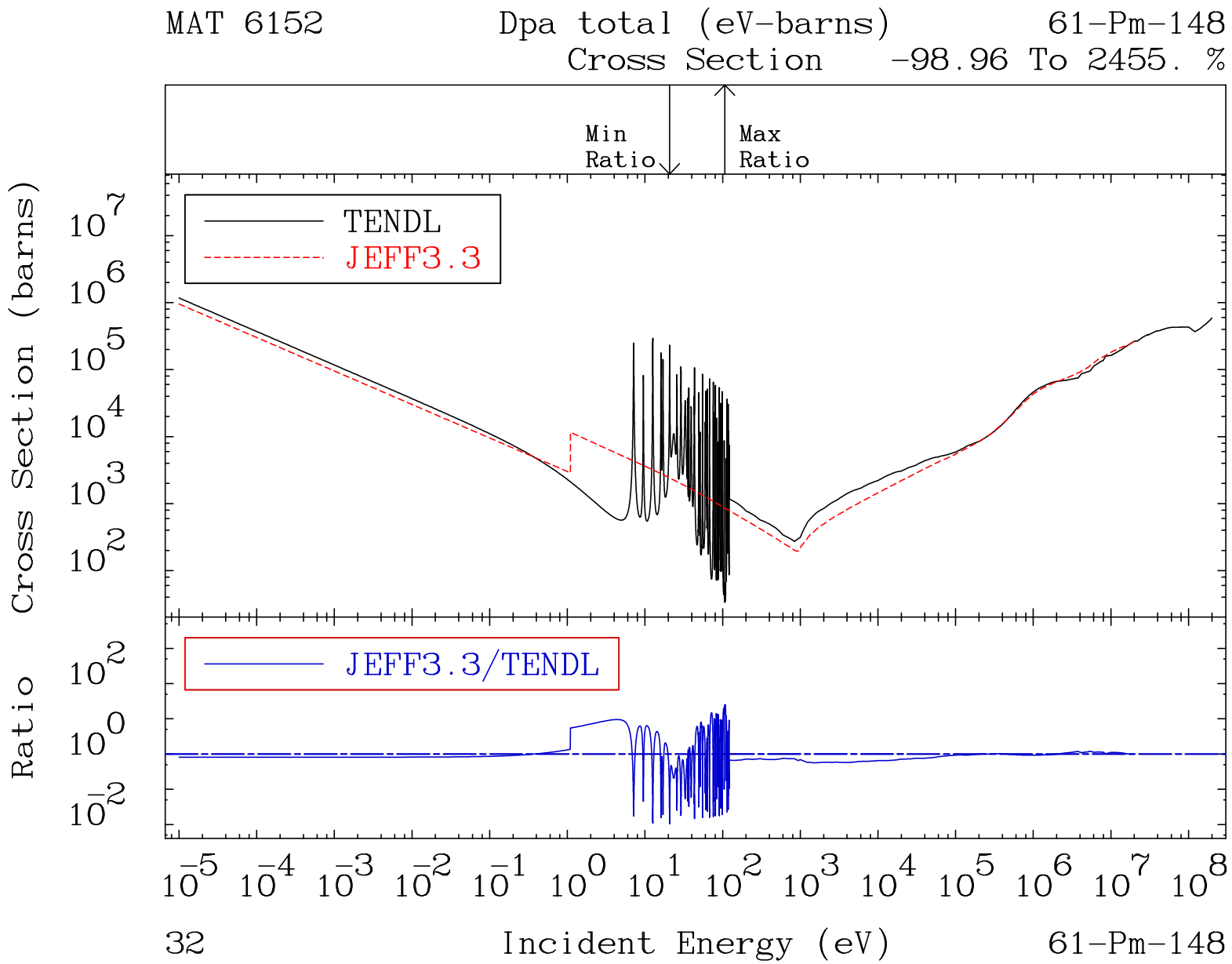

MAT 6152
Kerma inelastic (mt51-91)
61-Pm-148
Cross Section 1841. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 76.216 keV
JEFF3.3 Threshold 76.216 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
61-Pm-148

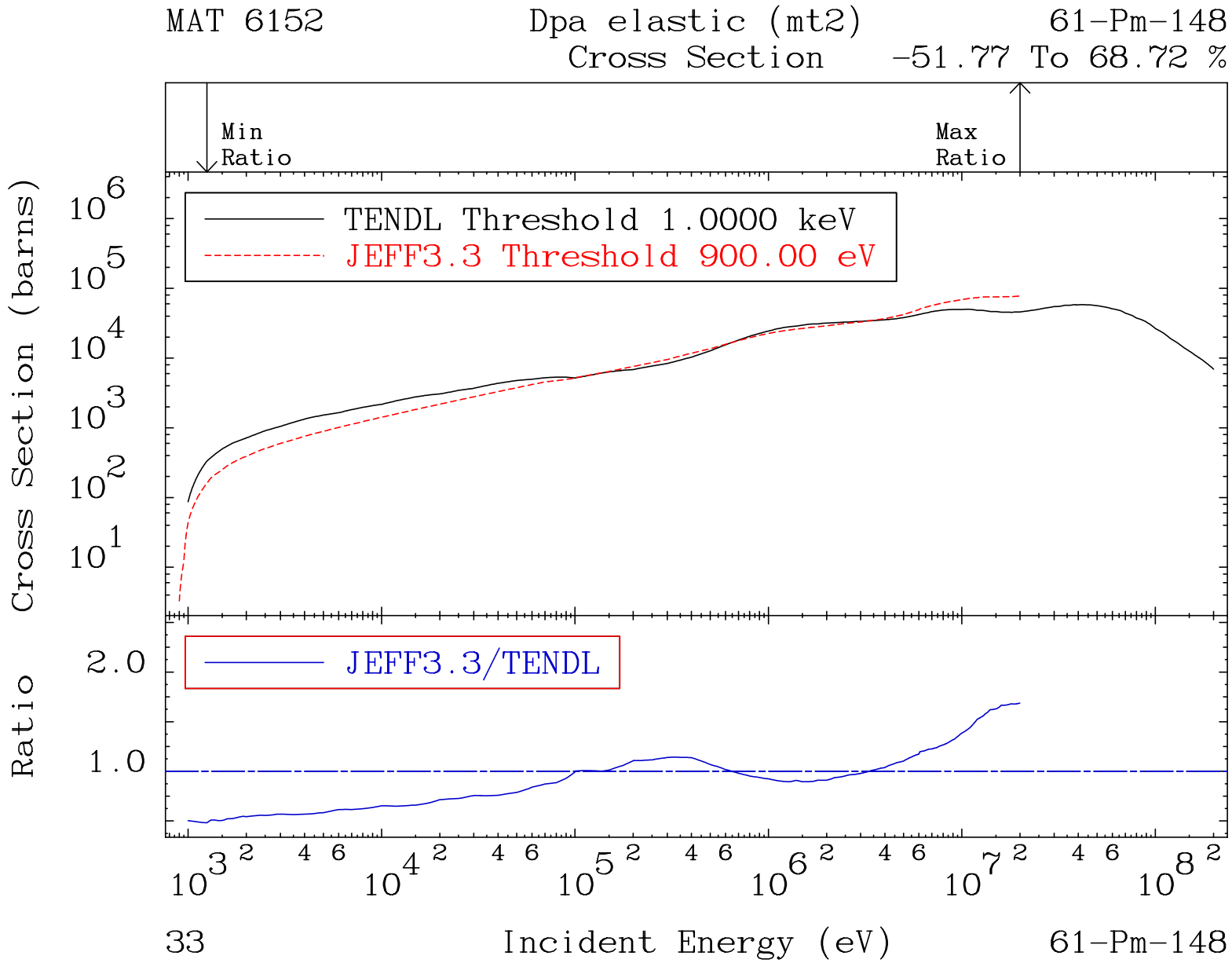

MAT 6152 Kerma fission (mt18 or mt19-20-21-38) 61-Pm-148
Cross Section 1841. To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^8
10^4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
28
Incident Energy (eV)
61-Pm-148

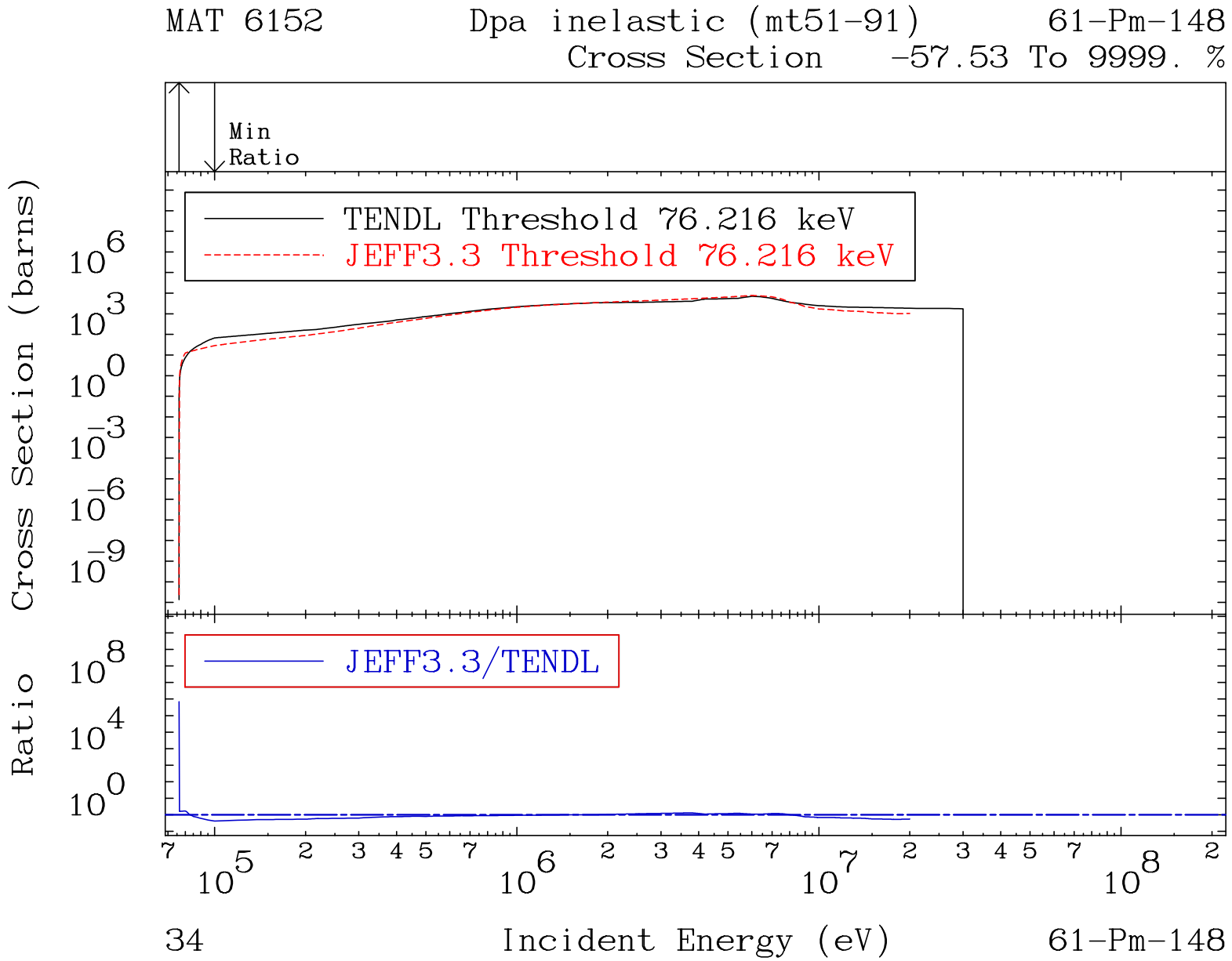

MAT 6152
Kerma capture (mt102)
61-Pm-148
Cross Section -98.88 To 4060. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
61-Pm-148

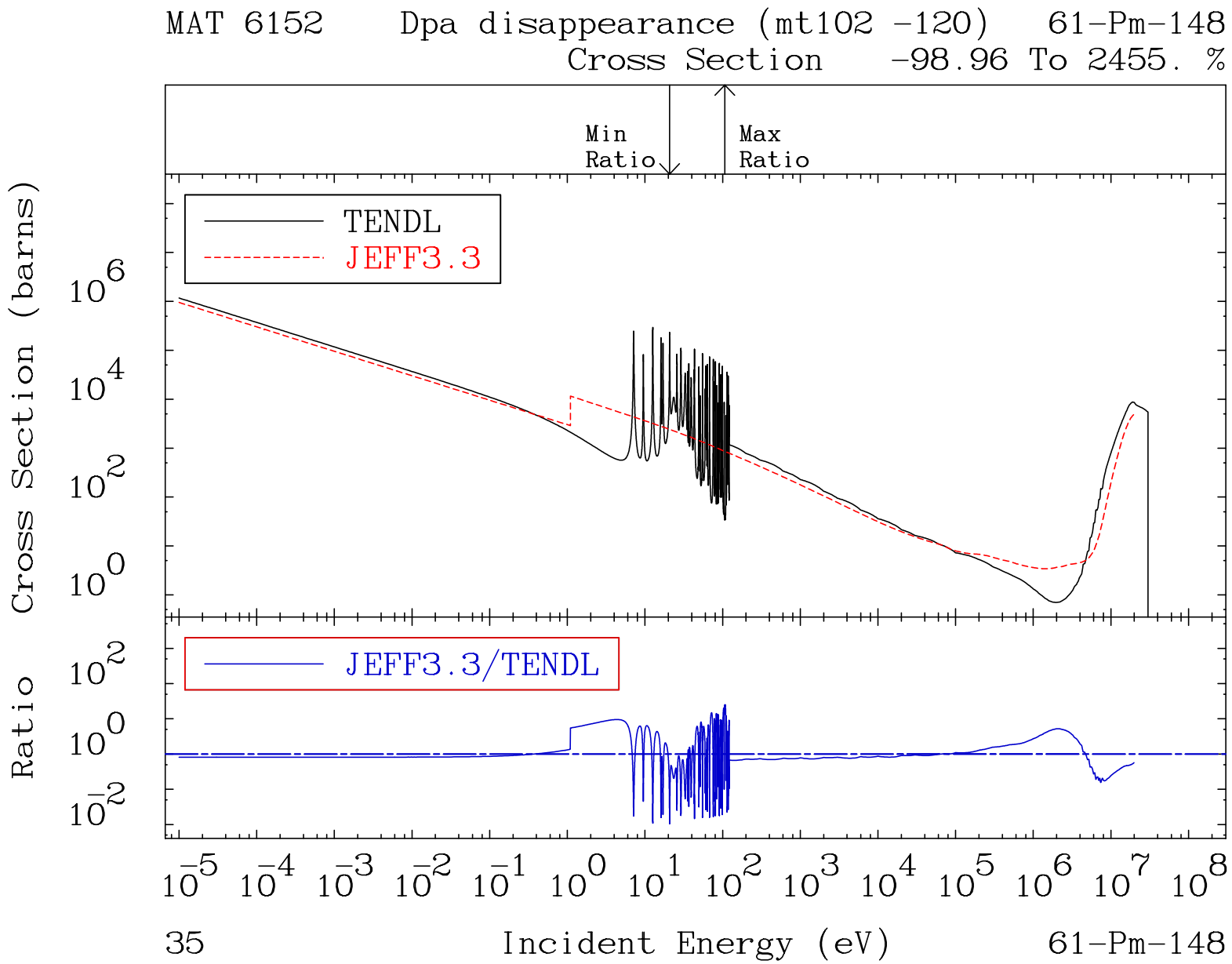

MAT 6152
Total photon (eV-barns)
61-Pm-148
Cross Section -99.87 To 4475. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
30
61-Pm-148


MAT 6152 Total kinematic kerma (high limit) 61-Pm-148
Cross Section -98.92 To 195.5 %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
61-Pm-148


MAT 6152
Dpa total (eV-barns)
61-Pm-148
Cross Section -98.96 To 2455. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
61-Pm-148


MAT 6152
Dpa elastic (mt2)
Cross Section
61-Pm-148
-51.77 To 68.72 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0000 keV
JEFF3.3 Threshold 900.00 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
61-Pm-148


MAT 6152
Dpa inelastic (mt51-91)
61-Pm-148
Cross Section -57.53 To 9999. %
Min
Ratio
TENDL Threshold 76.216 keV
JEFF3.3 Threshold 76.216 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
34
61-Pm-148


MAT 6152 Dpa disappearance (mt102 -120) 61-Pm-148
Cross Section -98.96 To 2455. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
61-Pm-148