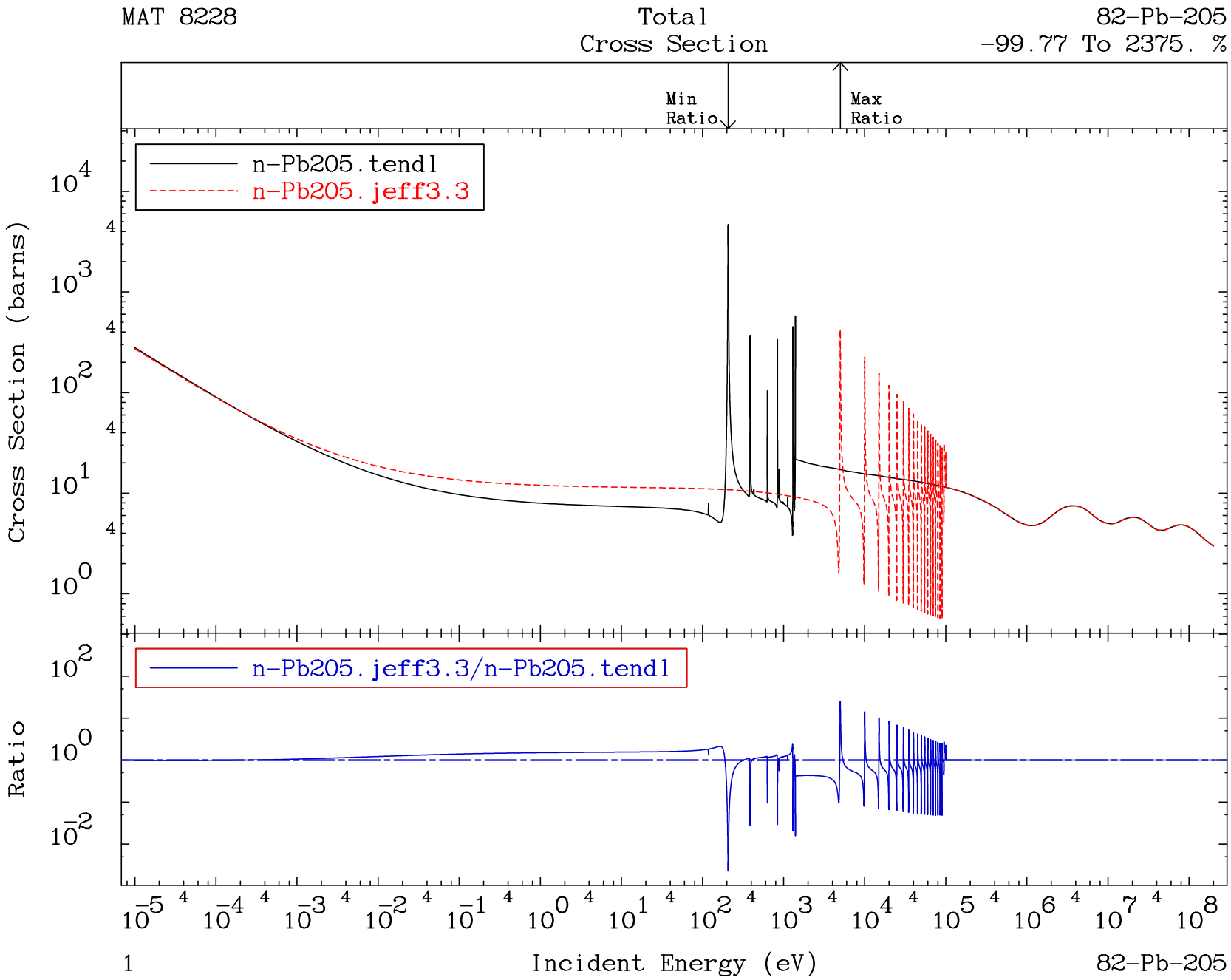
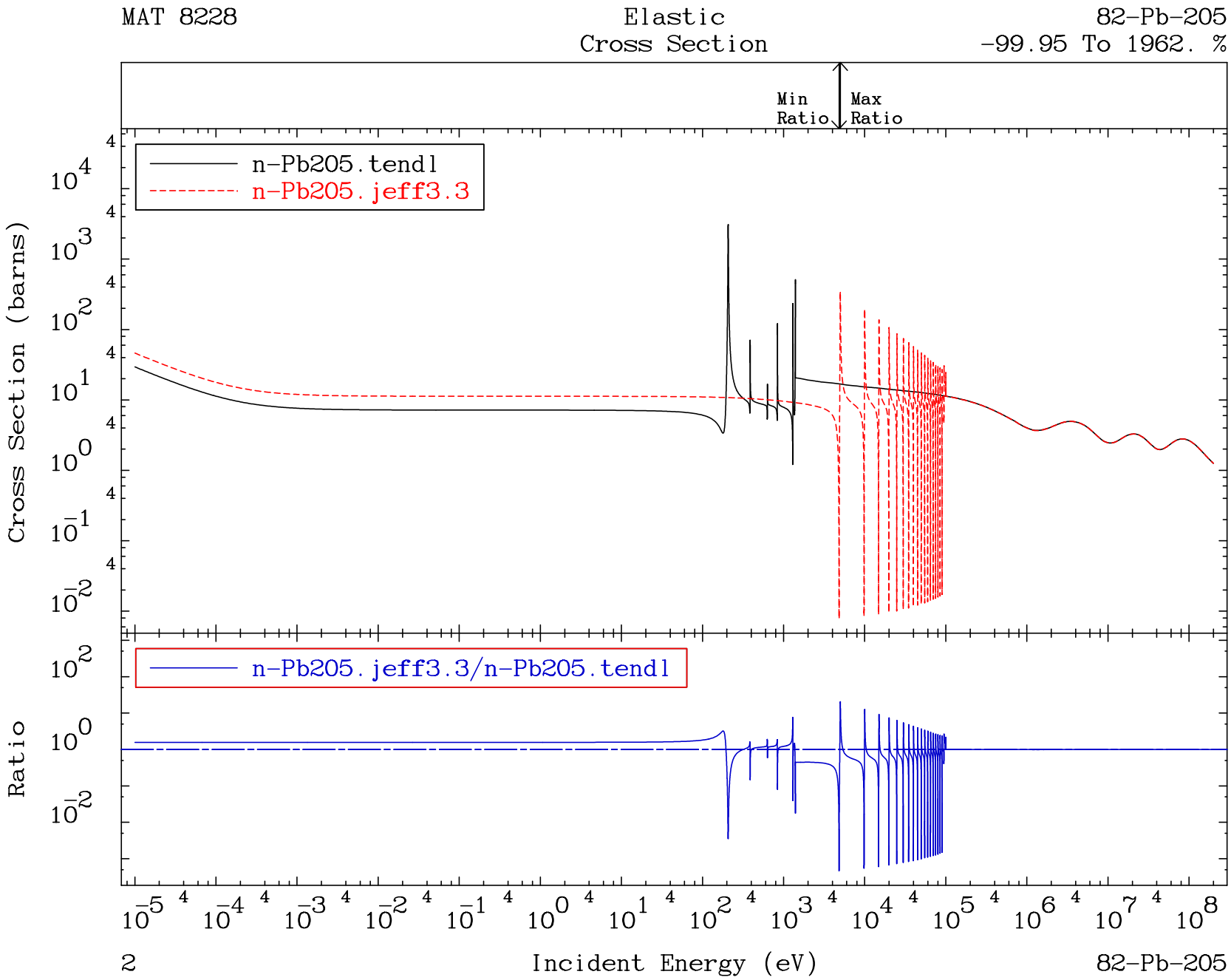
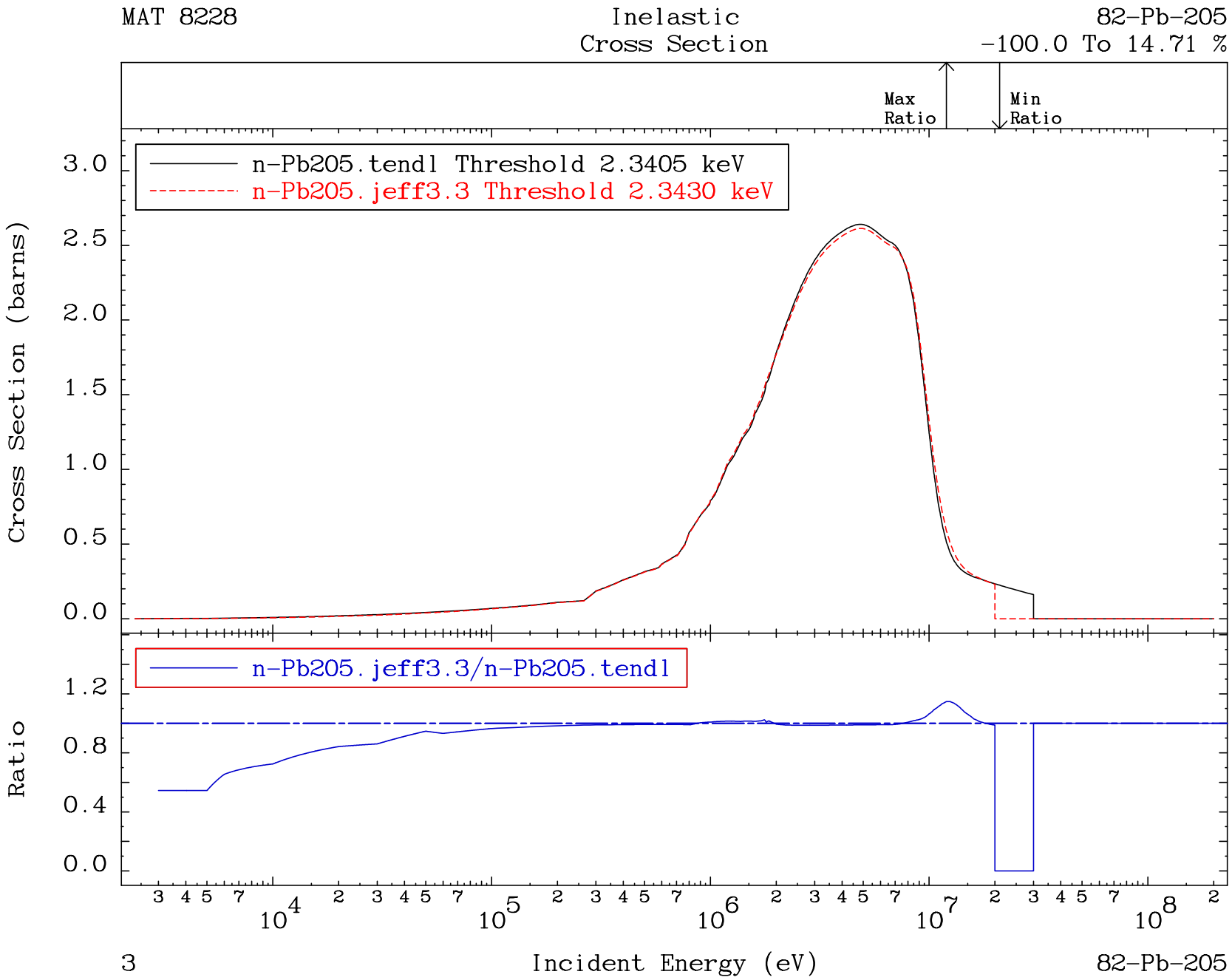
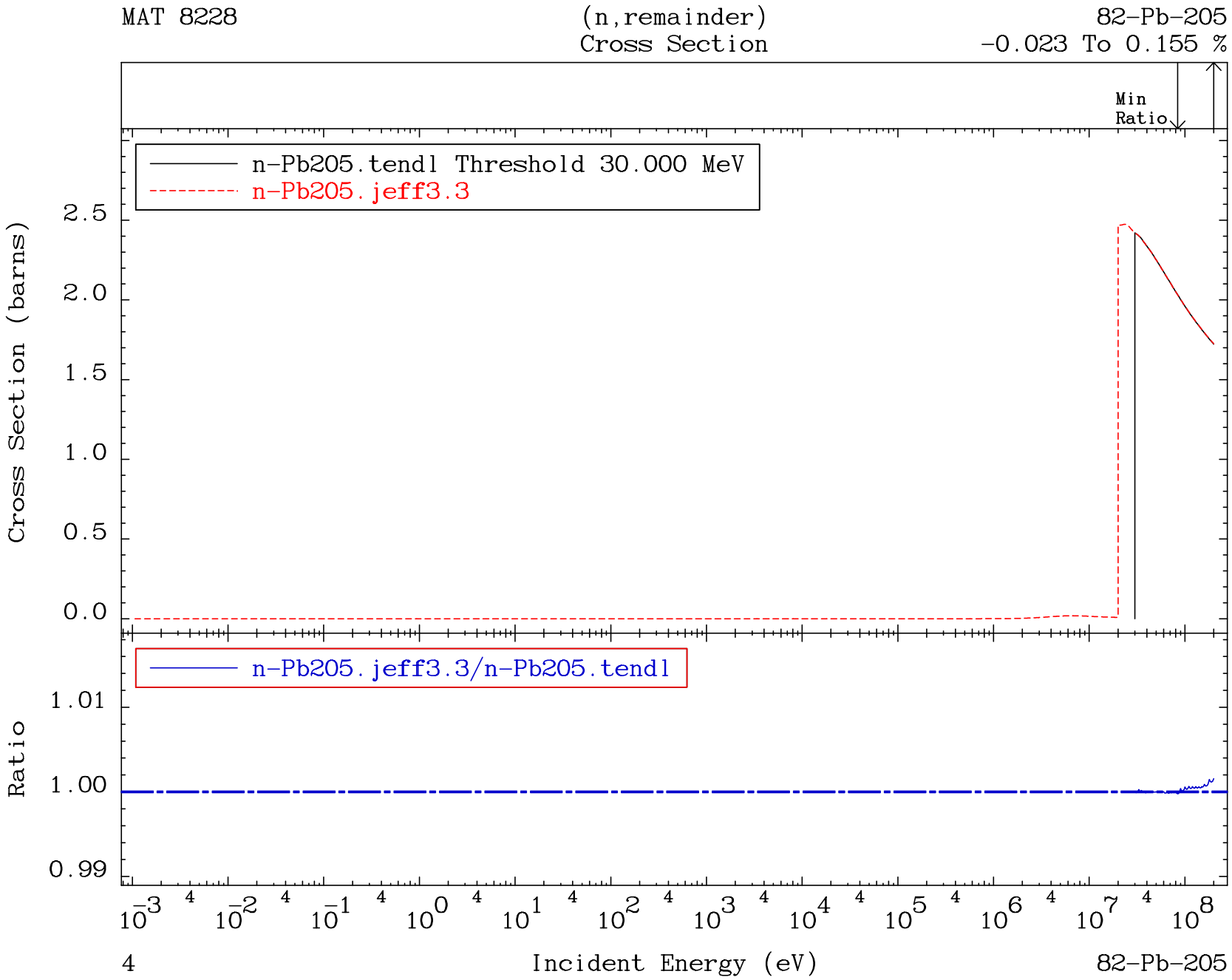
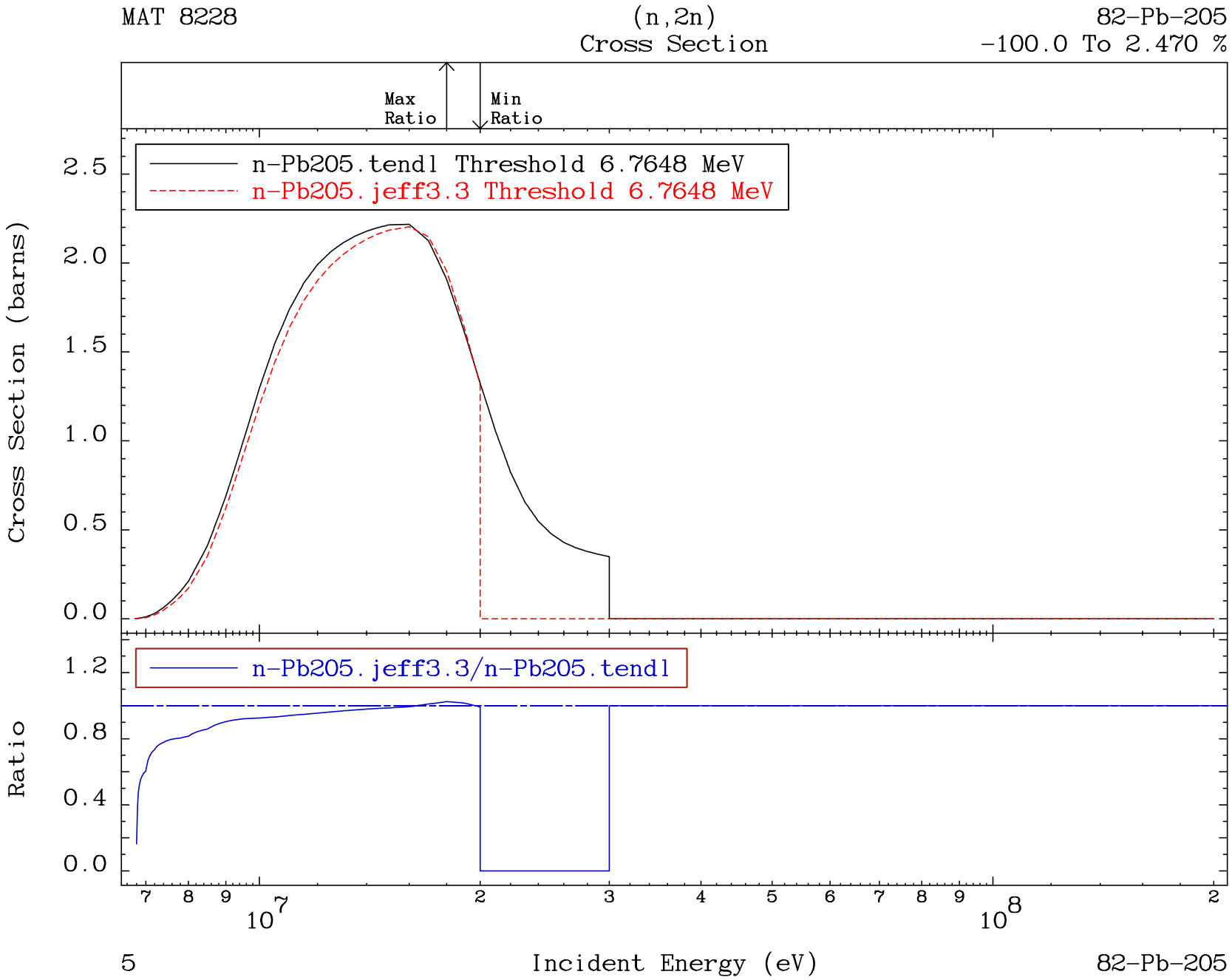
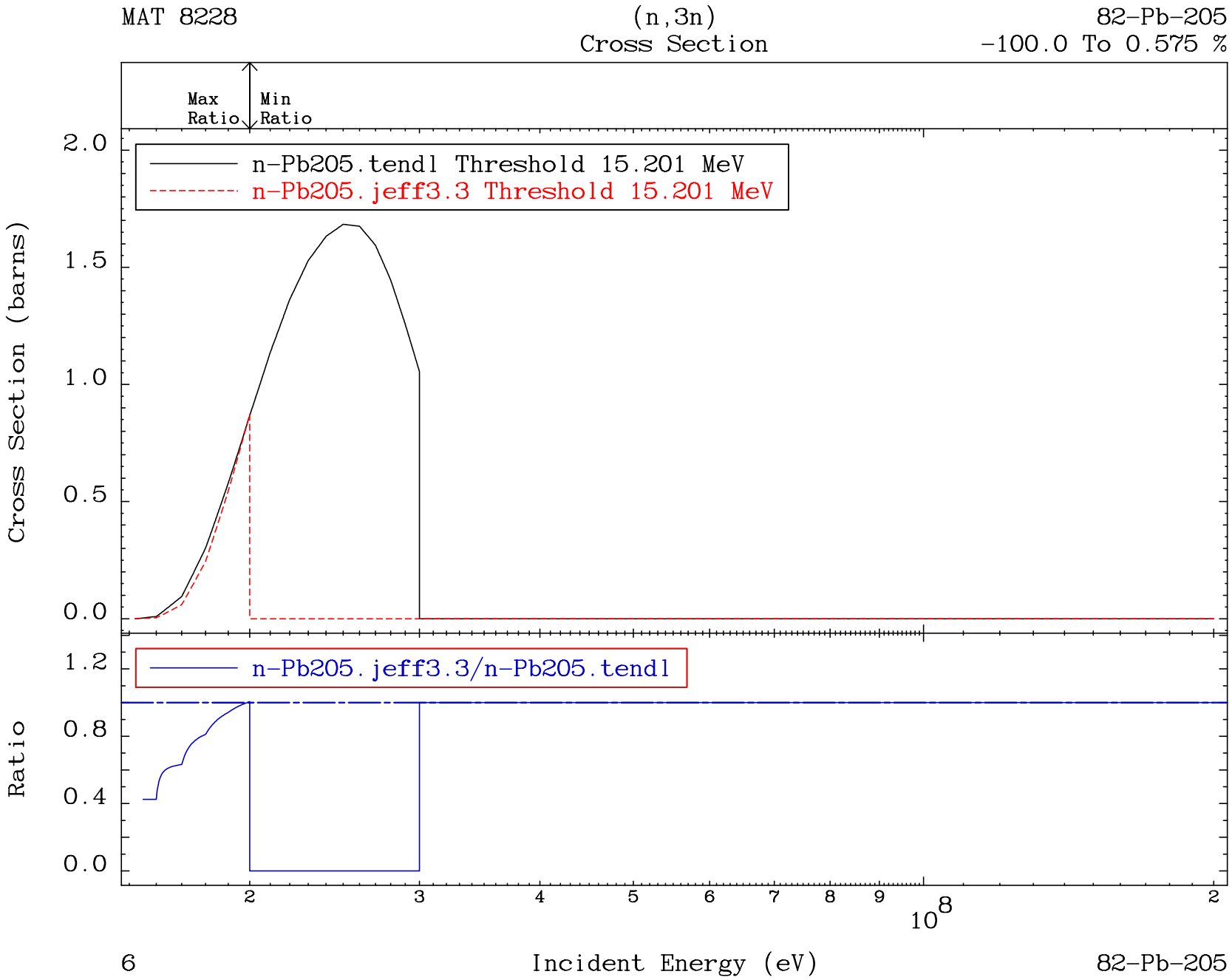

MAT 8228
Total
Cross Section
82-Pb-205
-99.77 To 2375. %
Min
Ratio
Max
Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
1
82-Pb-205

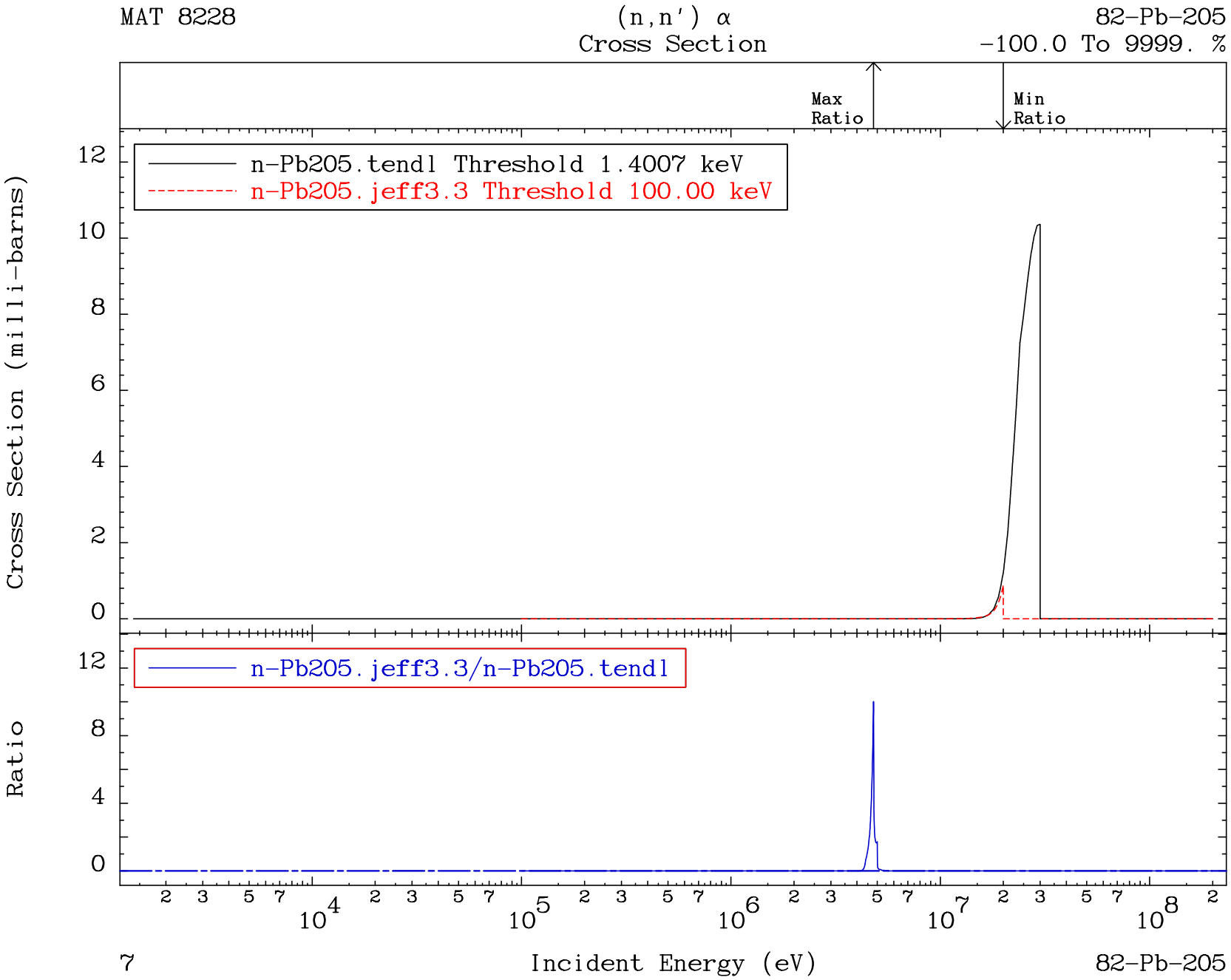

MAT 8228
Elastic
Cross Section
82-Pb-205
-99.95 To 1962. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
2
82-Pb-205

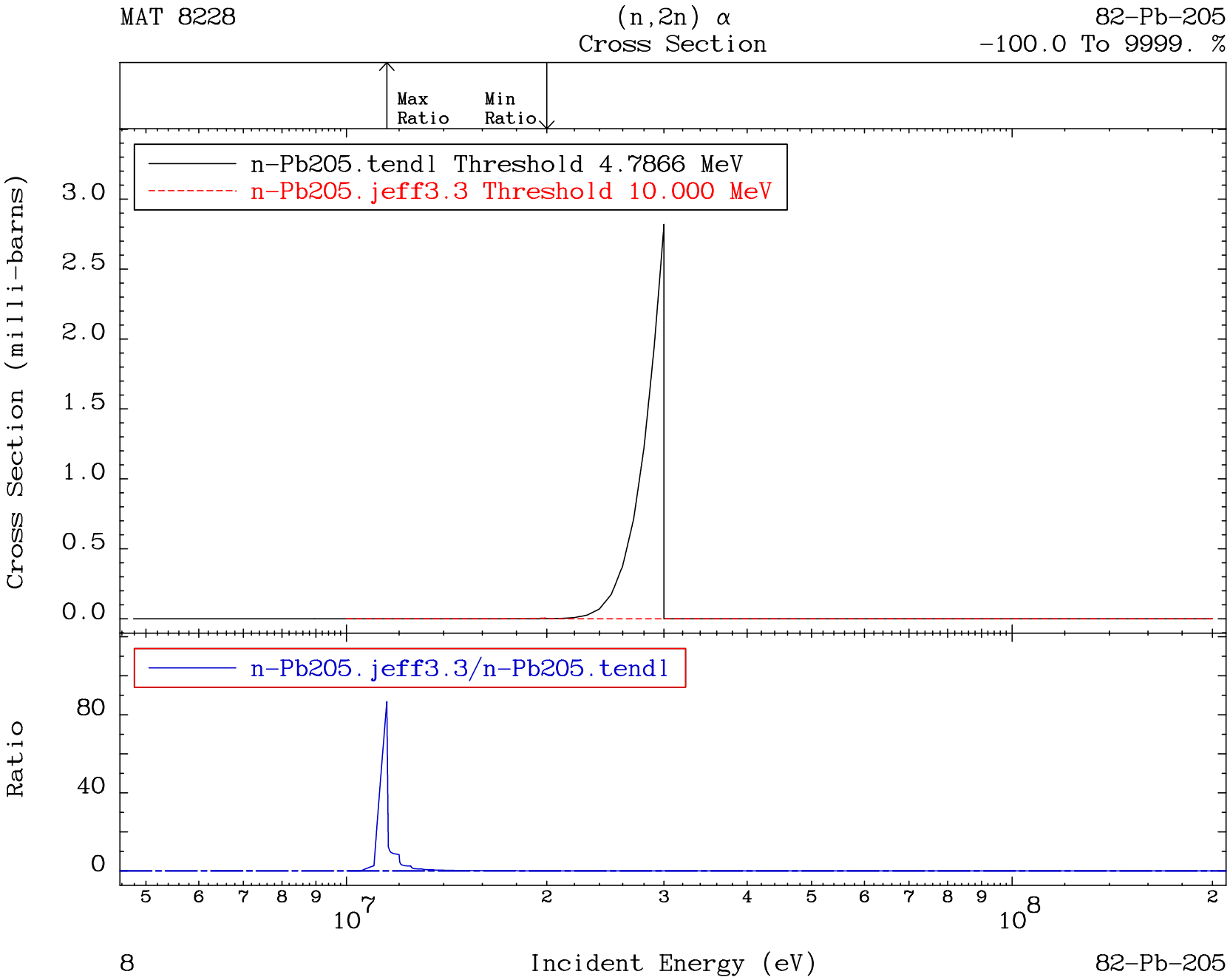

MAT 8228
Inelastic
Cross Section
82-Pb-205
-100.0 To 14.71 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 2.3405 keV
n-Pb205.jeff3.3 Threshold 2.3430 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
3
Incident Energy (eV)
82-Pb-205

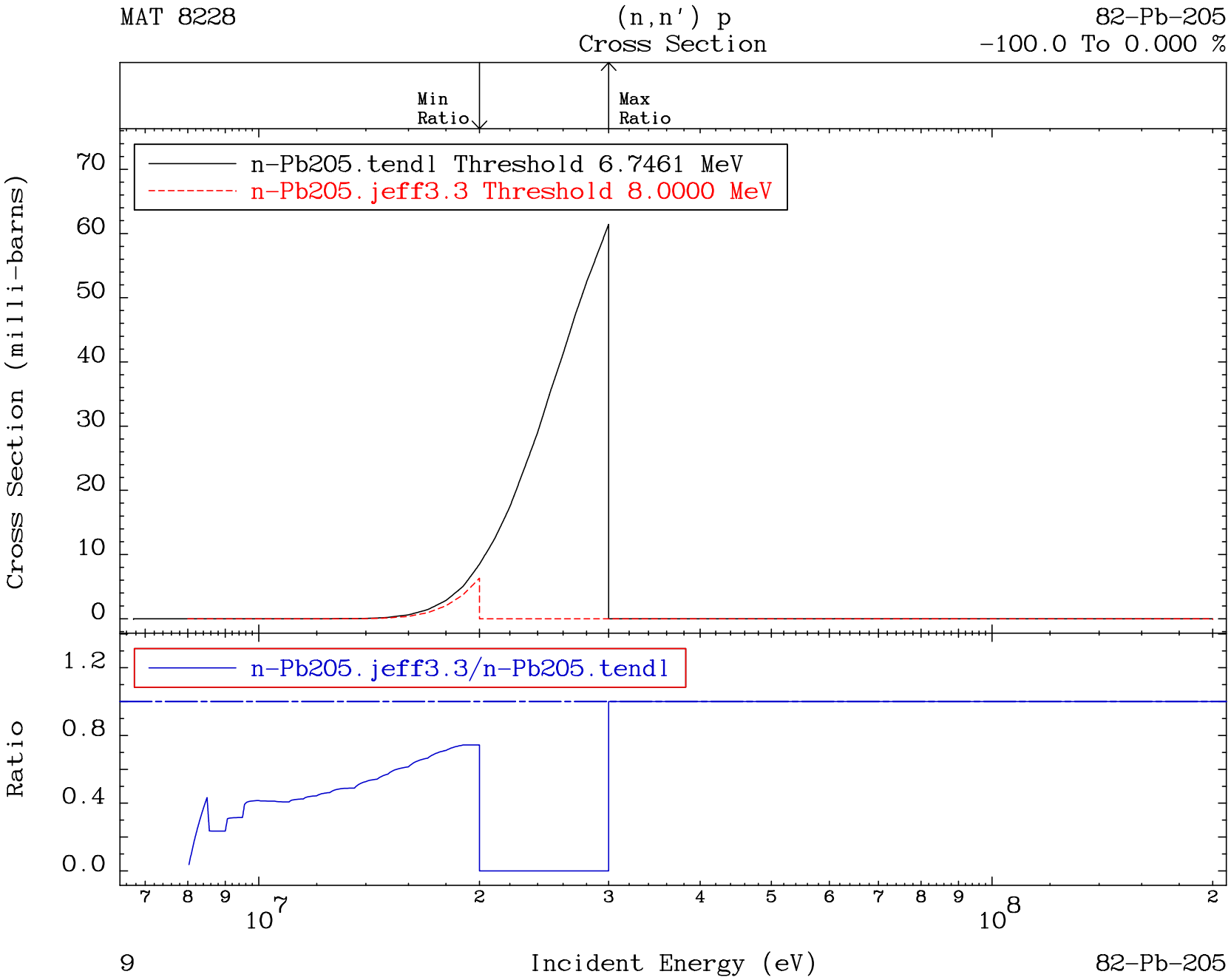

MAT 8228
(n,remainder)
Cross Section
82-Pb-205
-0.023 To 0.155 %
Min
Ratio
n-Pb205.tendl Threshold 30.000 MeV
n-Pb205.jeff3.3
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.01
1.00
0.99
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
4
Incident Energy (eV)
82-Pb-205

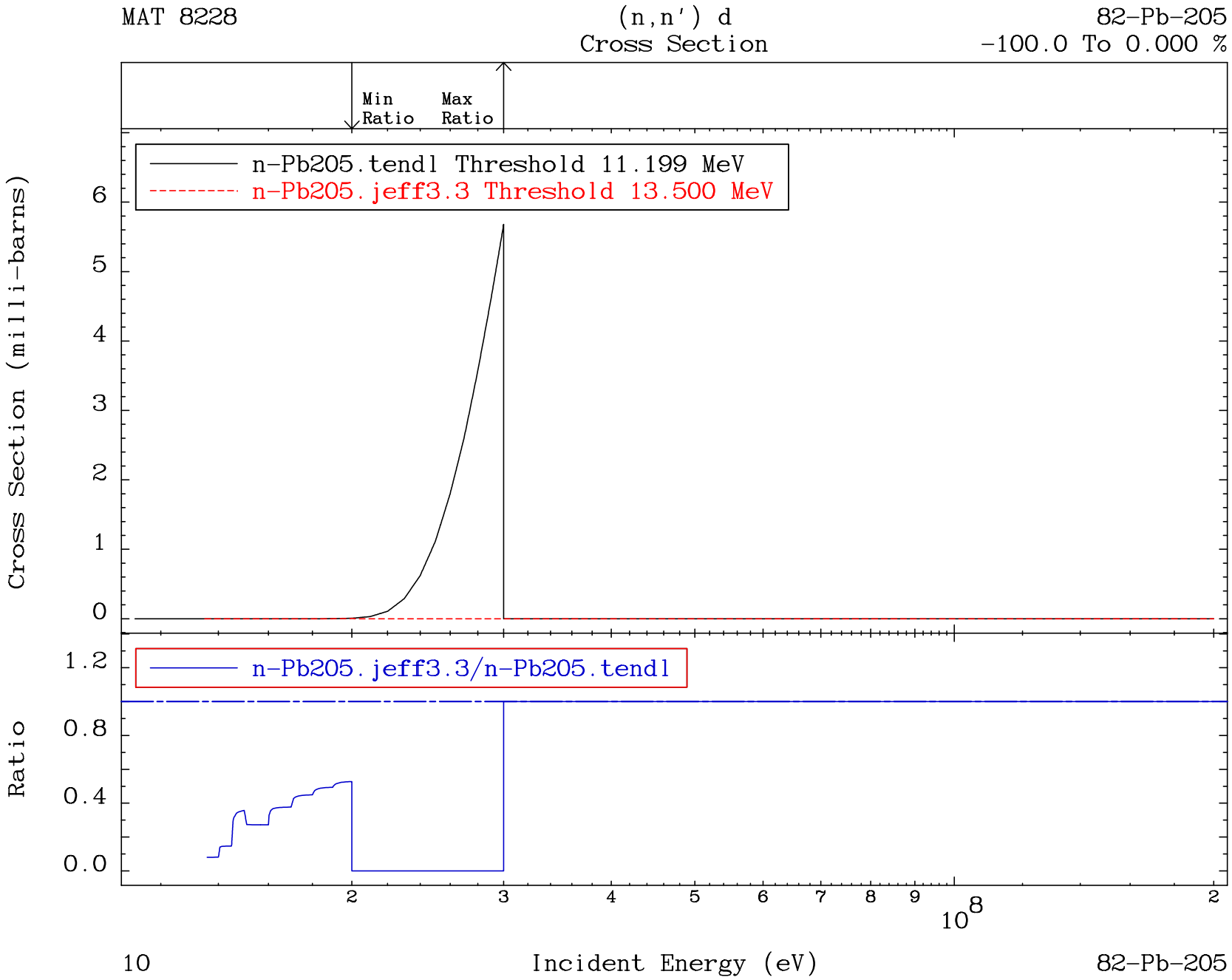

MAT 8228
(n,2n)
Cross Section
82-Pb-205
-100.0 To 2.470 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 6.7648 MeV
n-Pb205.jeff3.3 Threshold 6.7648 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
82-Pb-205

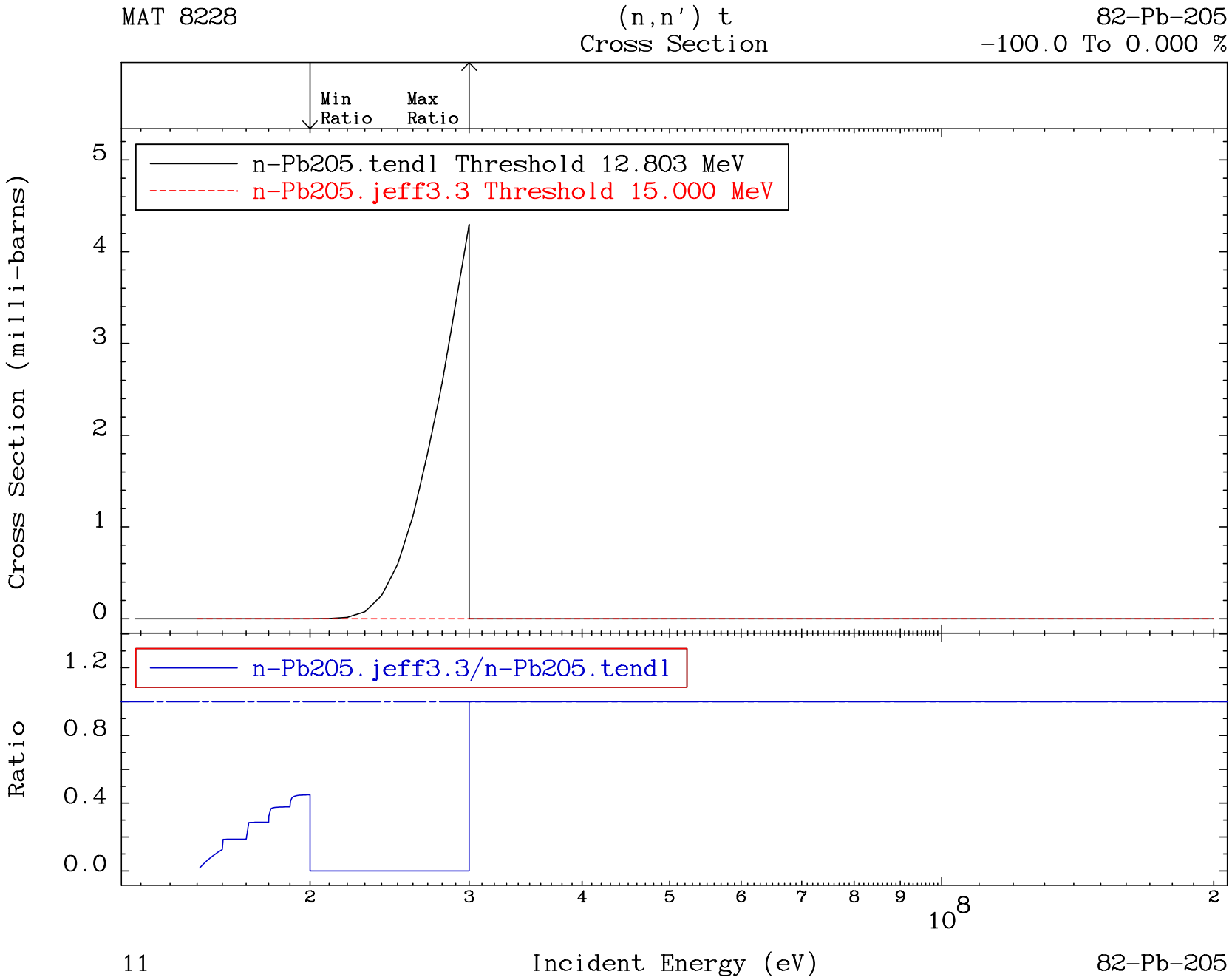

MAT 8228
(n,3n)
Cross Section
82-Pb-205
-100.0 To 0.575 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 15.201 MeV
n-Pb205.jeff3.3 Threshold 15.201 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
82-Pb-205

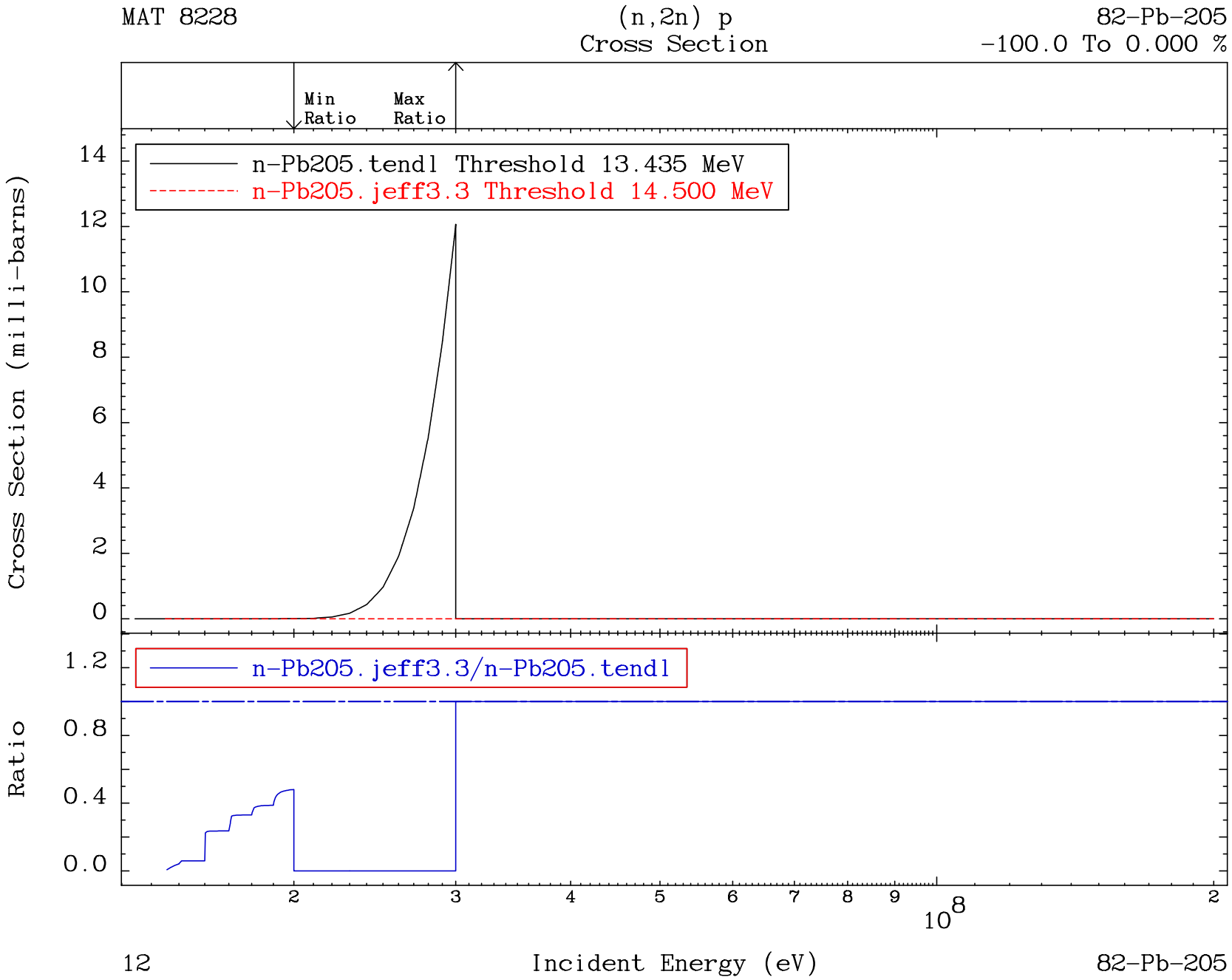

MAT 8228
(n,n') α
Cross Section
82-Pb-205
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.4007 keV
n-Pb205.jeff3.3 Threshold 100.00 keV
Cross Section (milli-barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
7
82-Pb-205

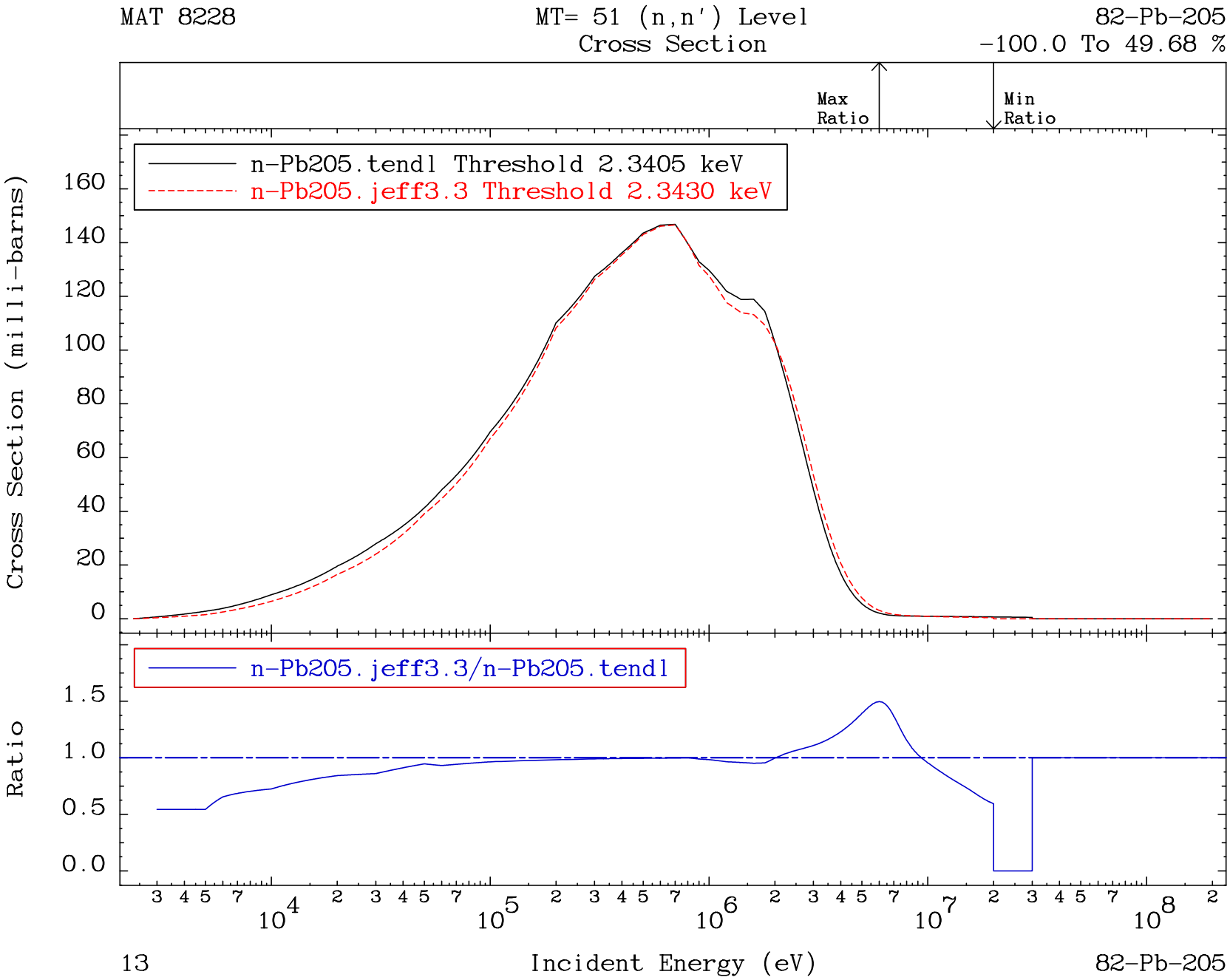

MAT 8228
(n,2n) α
Cross Section
82-Pb-205
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 4.7866 MeV
n-Pb205.jeff3.3 Threshold 10.000 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
80
40
0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
82-Pb-205

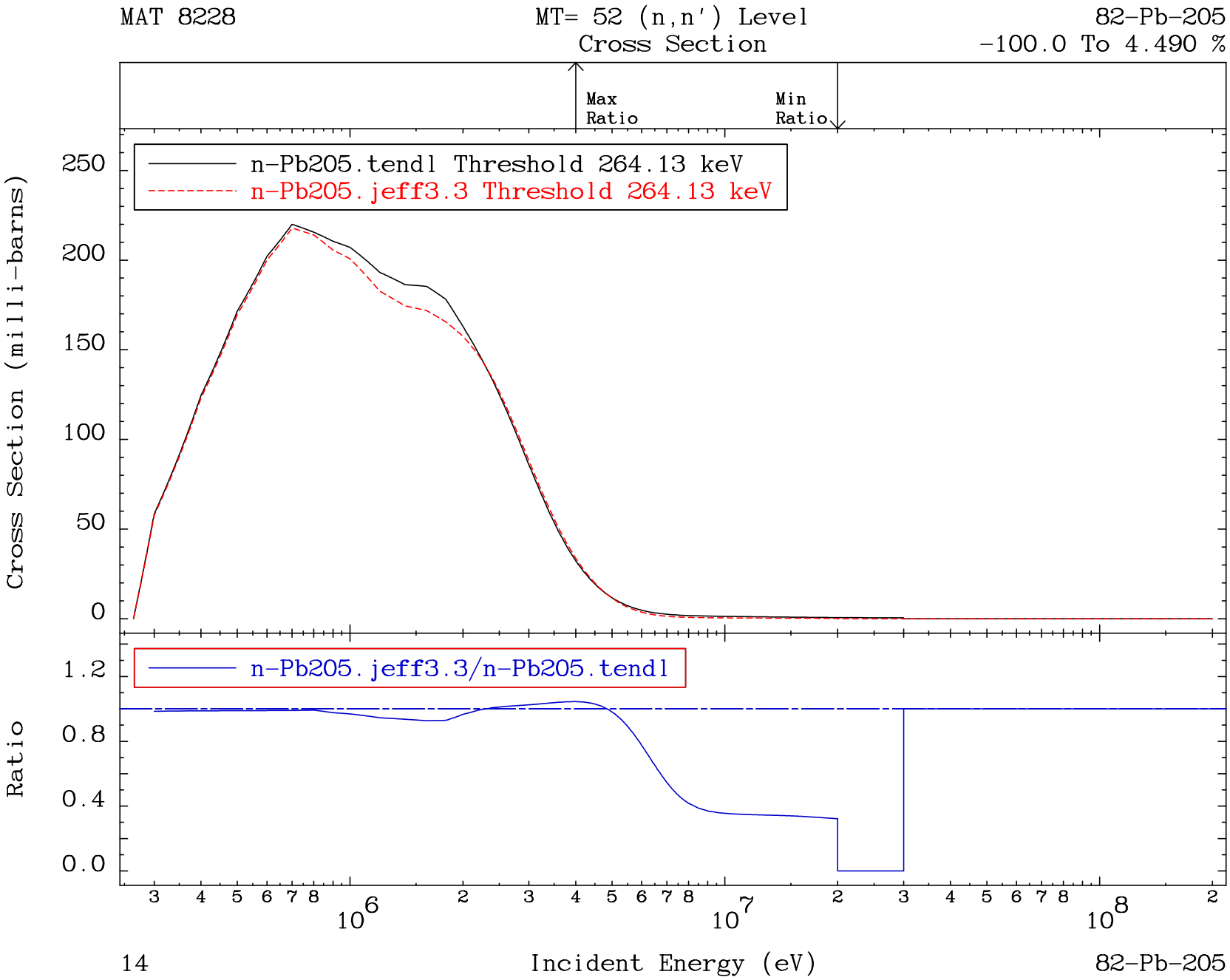

MAT 8228
(n,n') p
Cross Section
82-Pb-205
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 6.7461 MeV
n-Pb205.jeff3.3 Threshold 8.0000 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
82-Pb-205

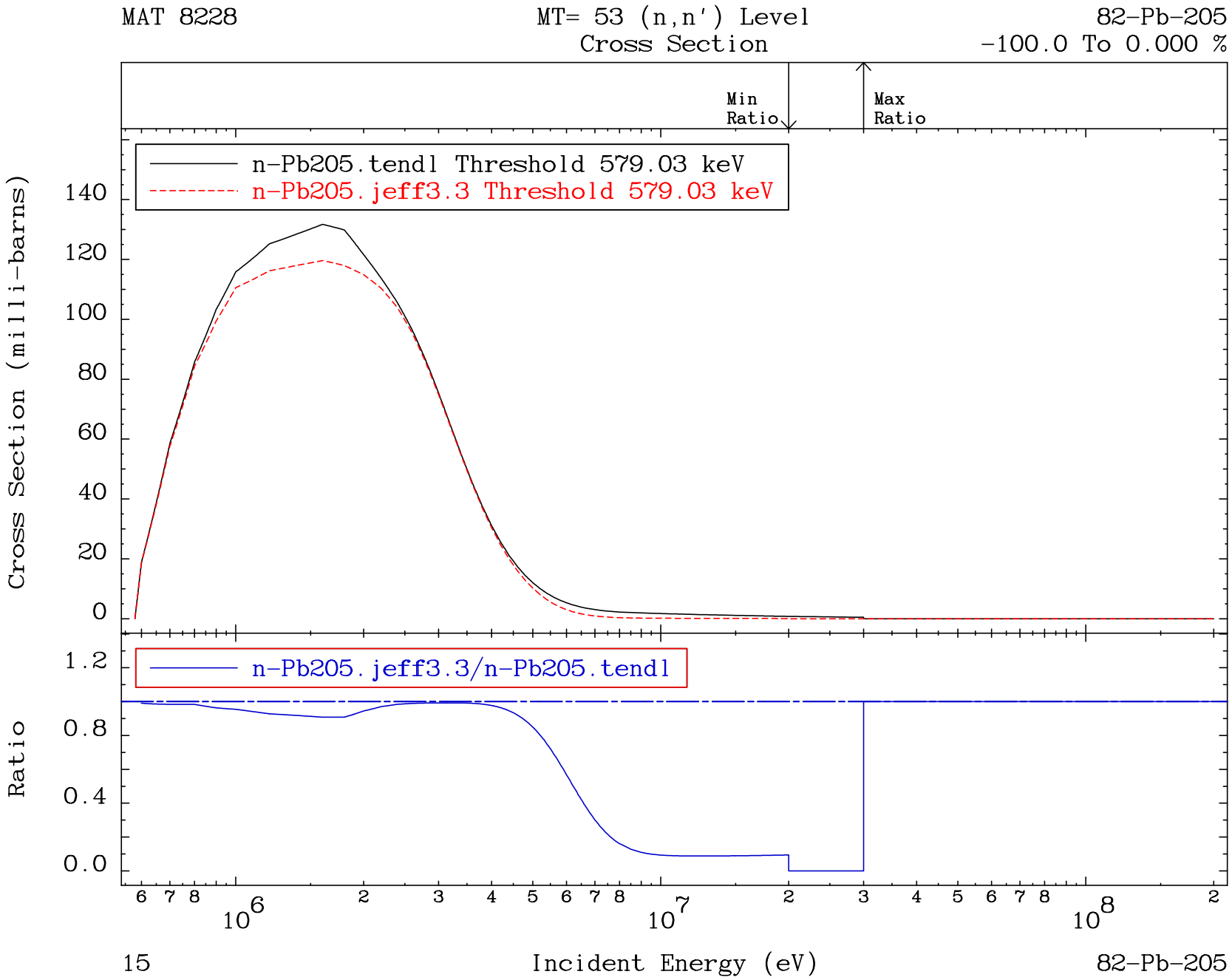

MAT 8228
(n,n') d
Cross Section
82-Pb-205
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 11.199 MeV
n-Pb205.jeff3.3 Threshold 13.500 MeV
Cross Section (milli-barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
10
82-Pb-205

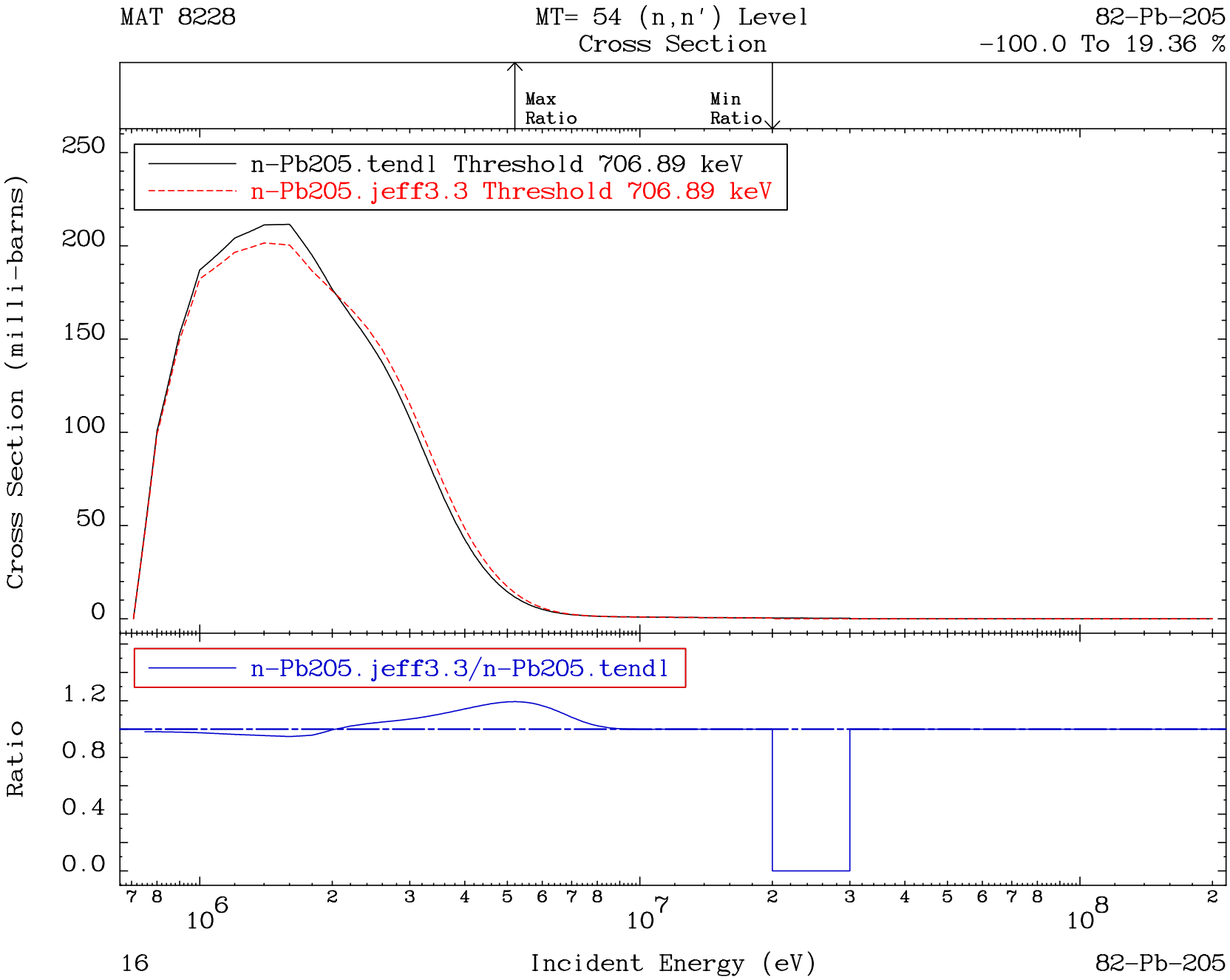

MAT 8228
(n,n') t
Cross Section
82-Pb-205
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 12.803 MeV
n-Pb205.jeff3.3 Threshold 15.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
0.0
0.4
0.8
1.2
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
82-Pb-205

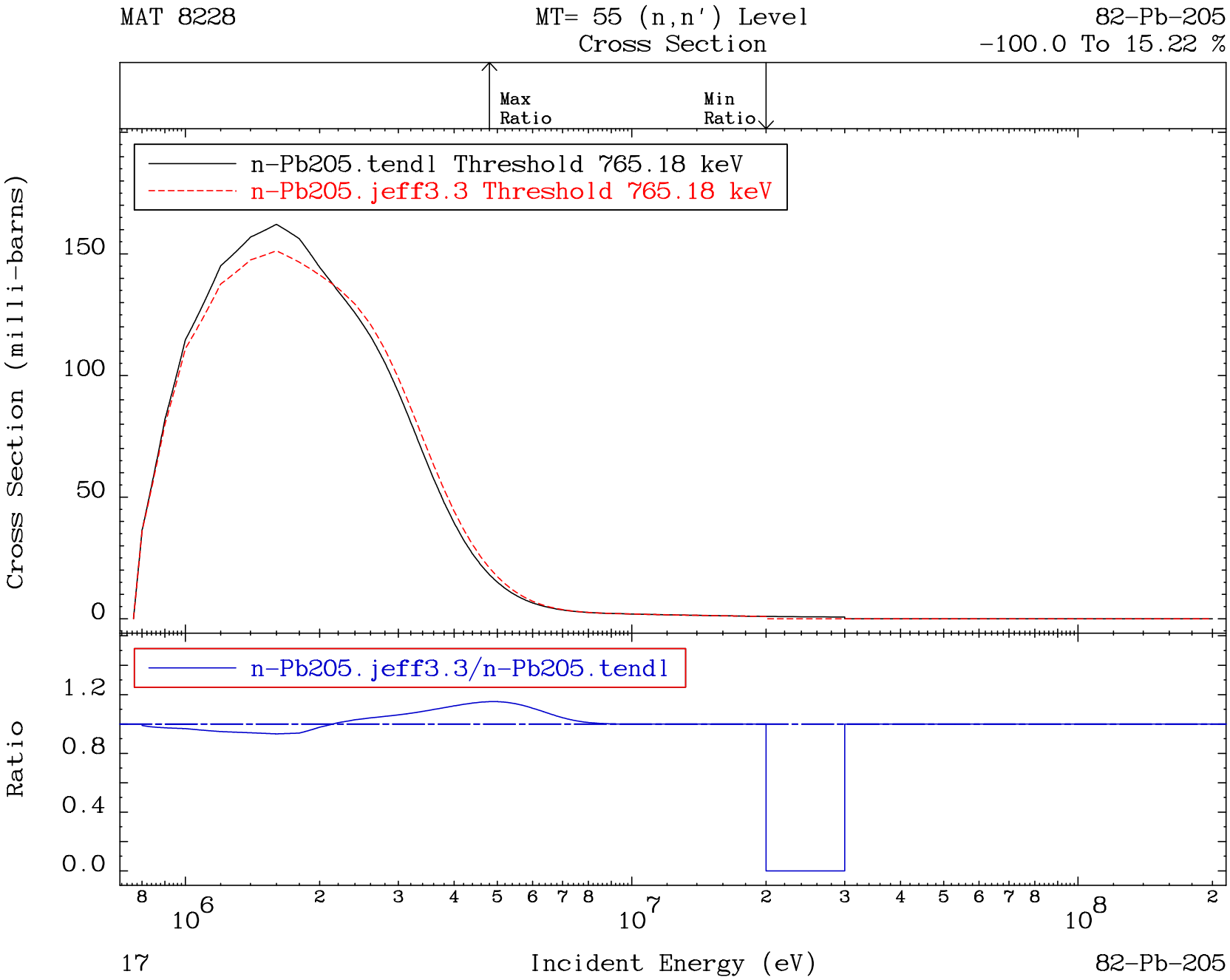

MAT 8228
(n,2n) p
Cross Section
82-Pb-205
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 13.435 MeV
n-Pb205.jeff3.3 Threshold 14.500 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
82-Pb-205

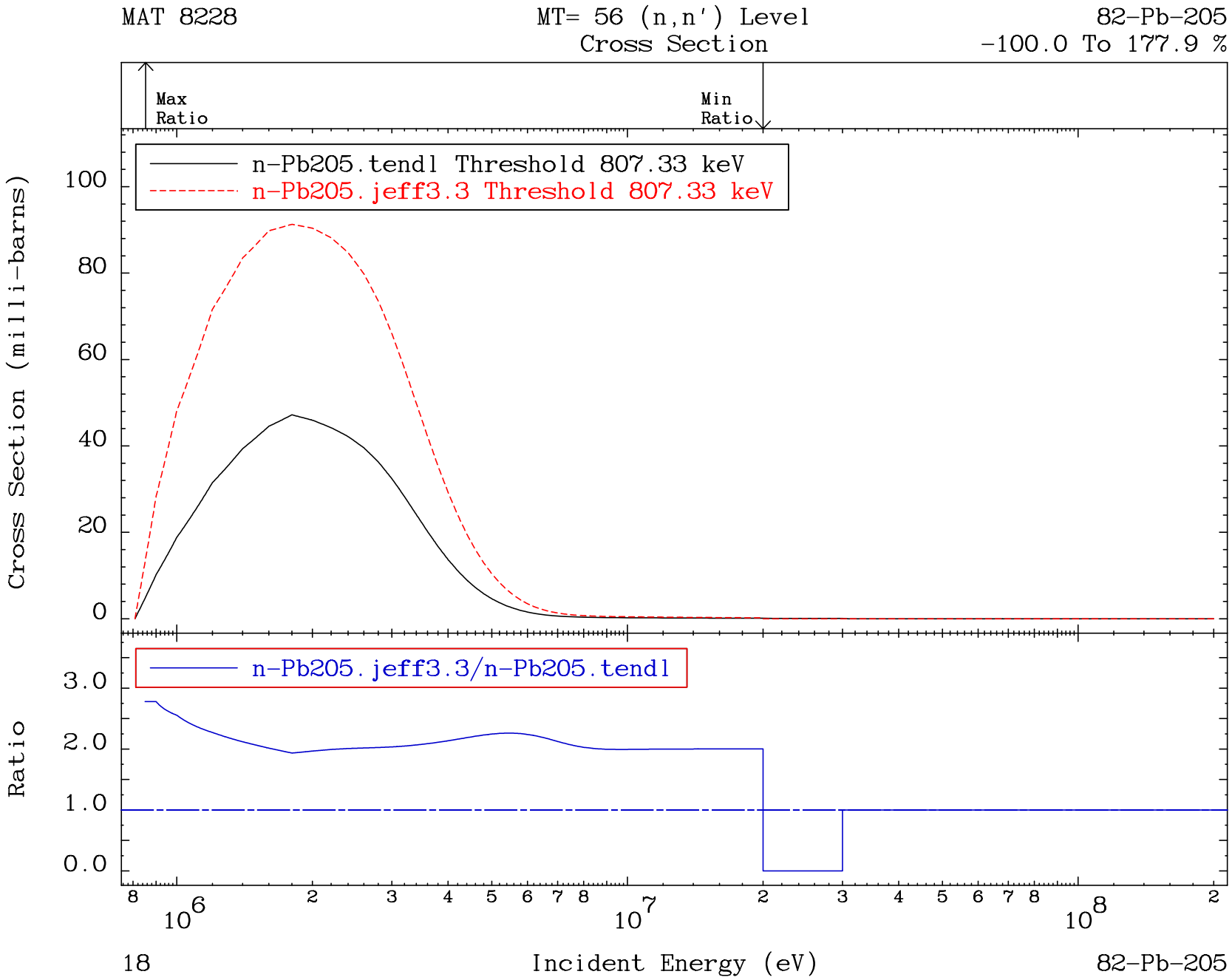

MAT 8228
MT= 51 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 49.68 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 2.3405 keV
n-Pb205.jeff3.3 Threshold 2.3430 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.5
1.0
0.5
0.0
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
13
Incident Energy (eV)
82-Pb-205

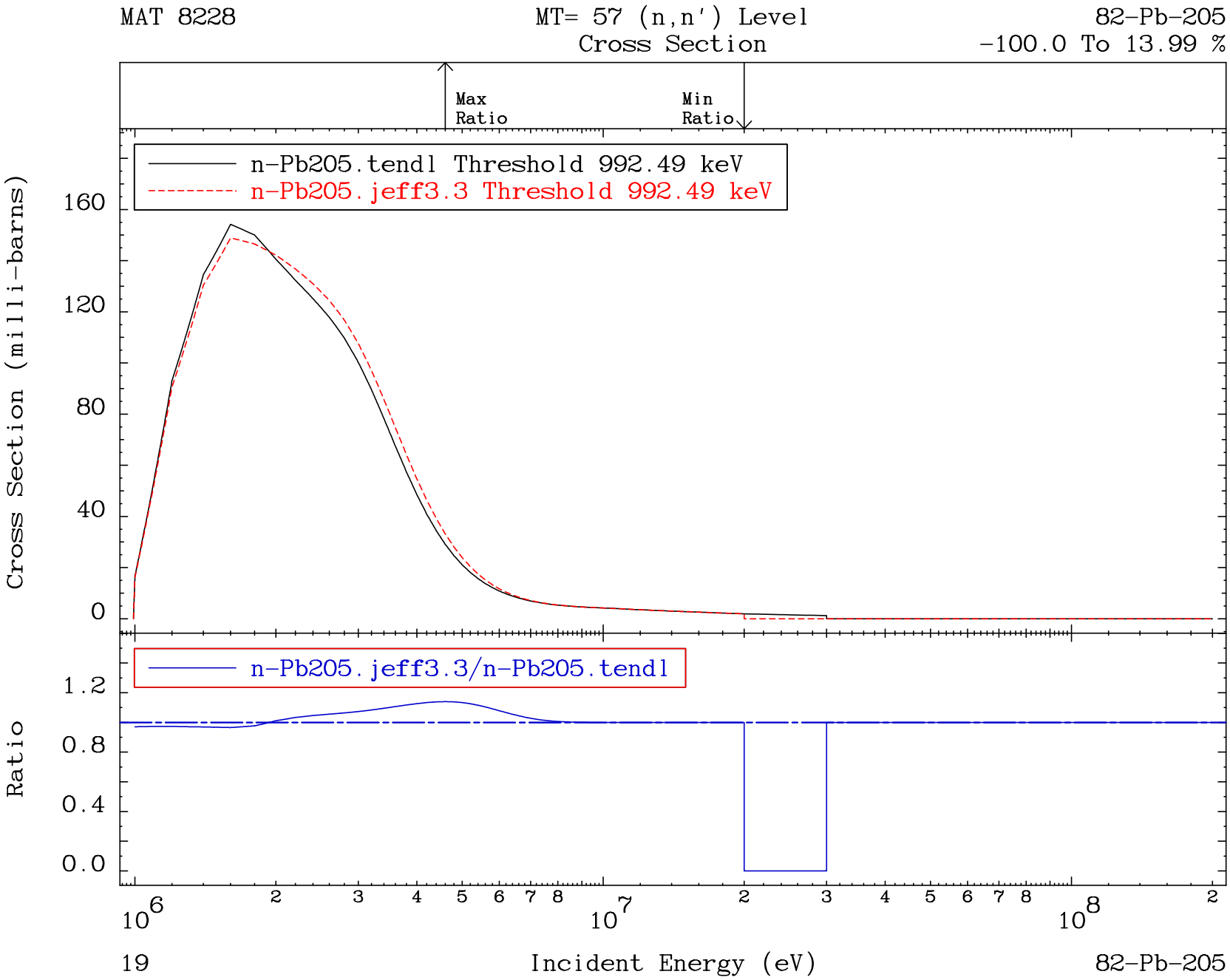

MAT 8228
MT= 52 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 4.490 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 264.13 keV
n-Pb205.jeff3.3 Threshold 264.13 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
82-Pb-205

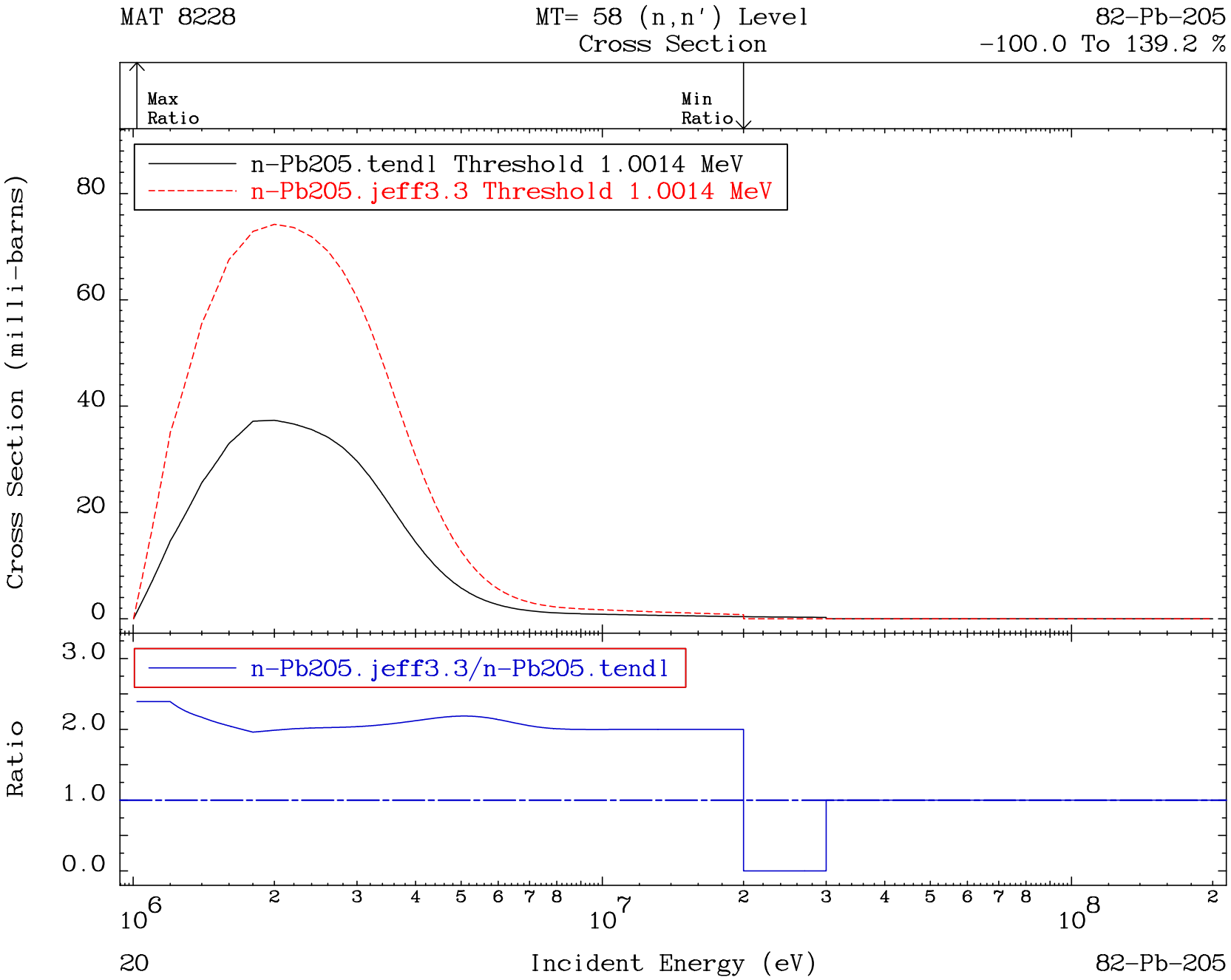

MAT 8228
MT= 53 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 0.000 %
Min
Ratio
Max
Ratio
n-Pb205.tendl Threshold 579.03 keV
n-Pb205.jeff3.3 Threshold 579.03 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
6 7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
15
Incident Energy (eV)
82-Pb-205

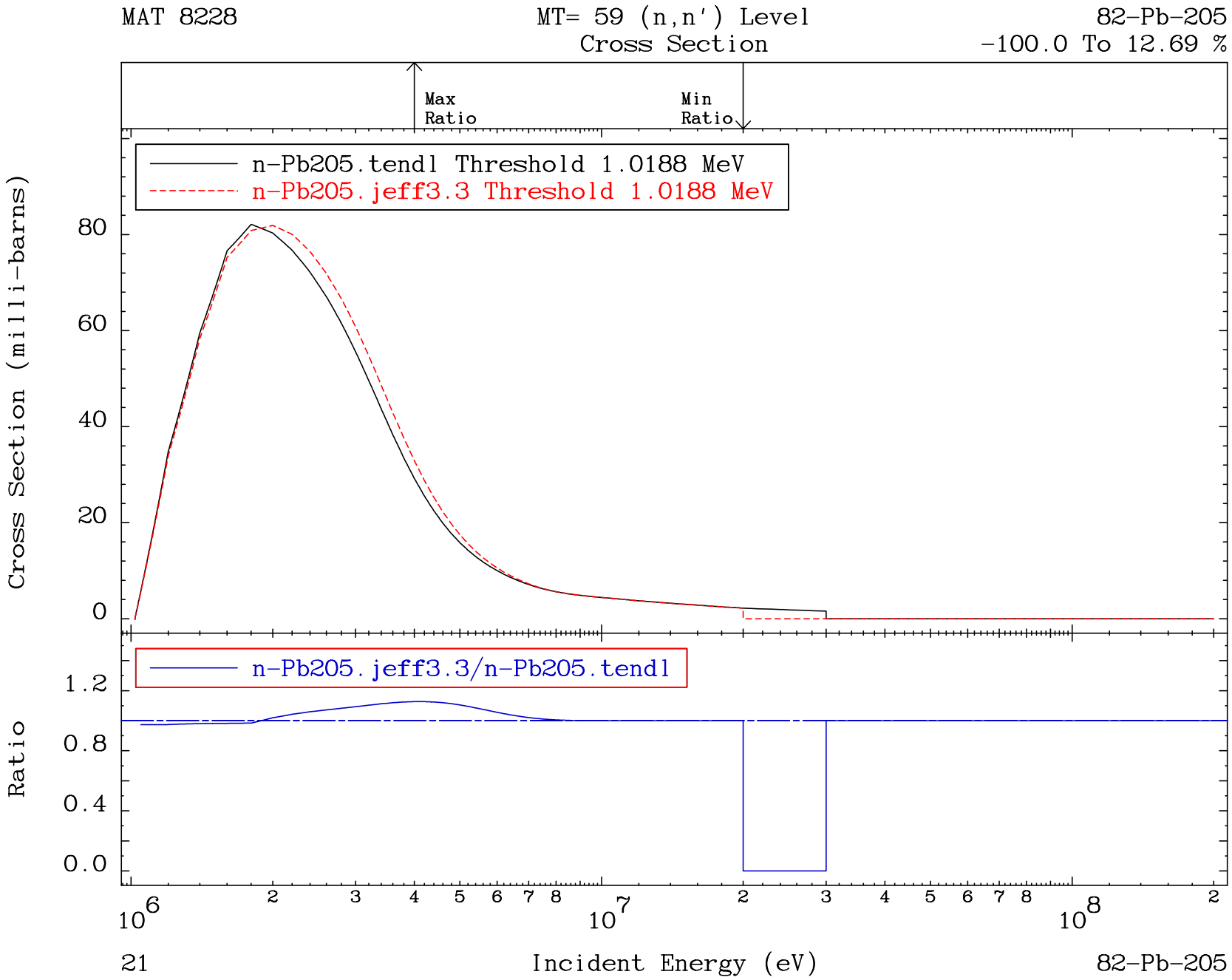

MAT 8228
MT= 54 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 19.36 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 706.89 keV
n-Pb205.jeff3.3 Threshold 706.89 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
82-Pb-205

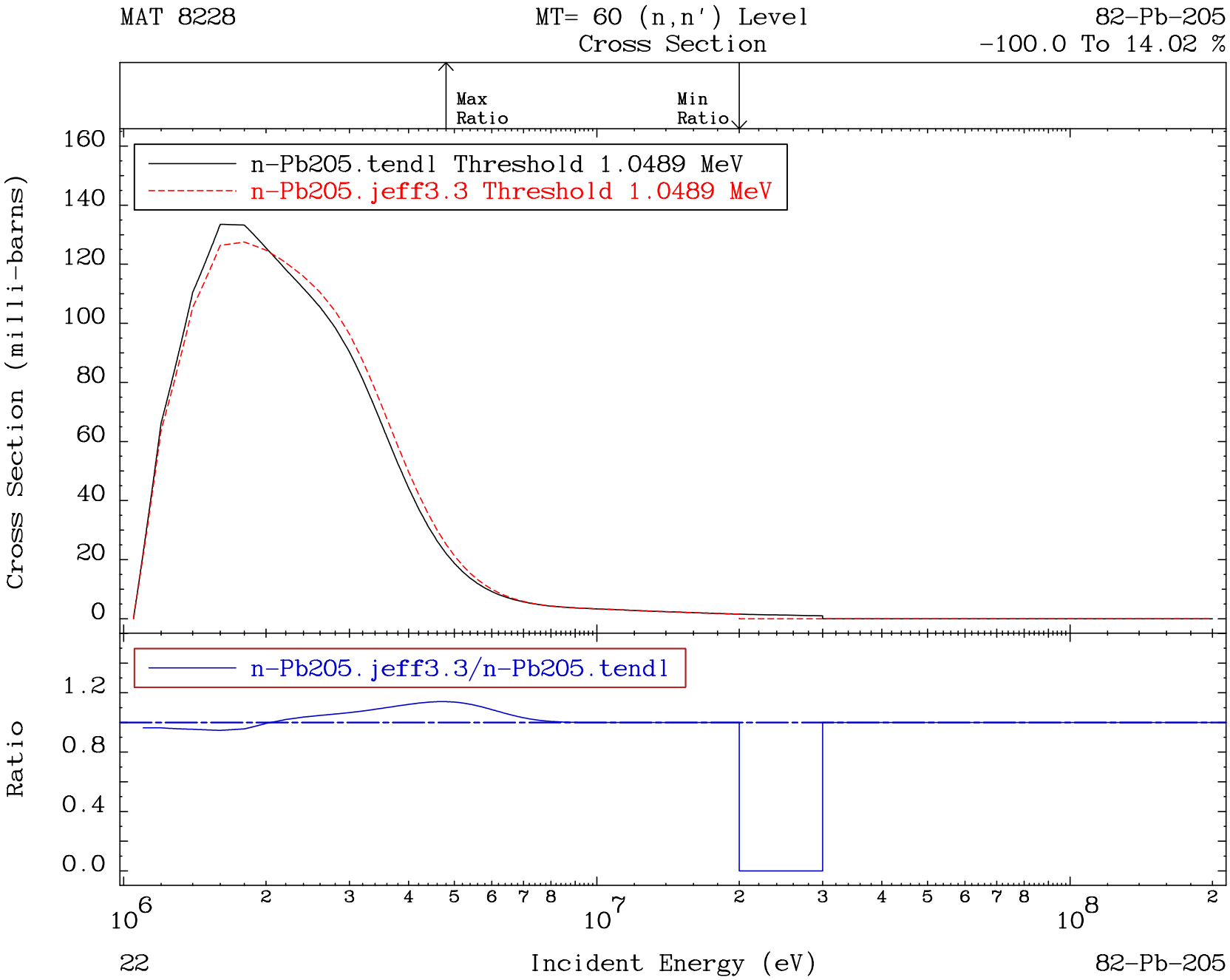

MAT 8228
MT= 55 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 15.22 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 765.18 keV
n-Pb205.jeff3.3 Threshold 765.18 keV
Cross Section (milli-barns)
150
100
50
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
82-Pb-205

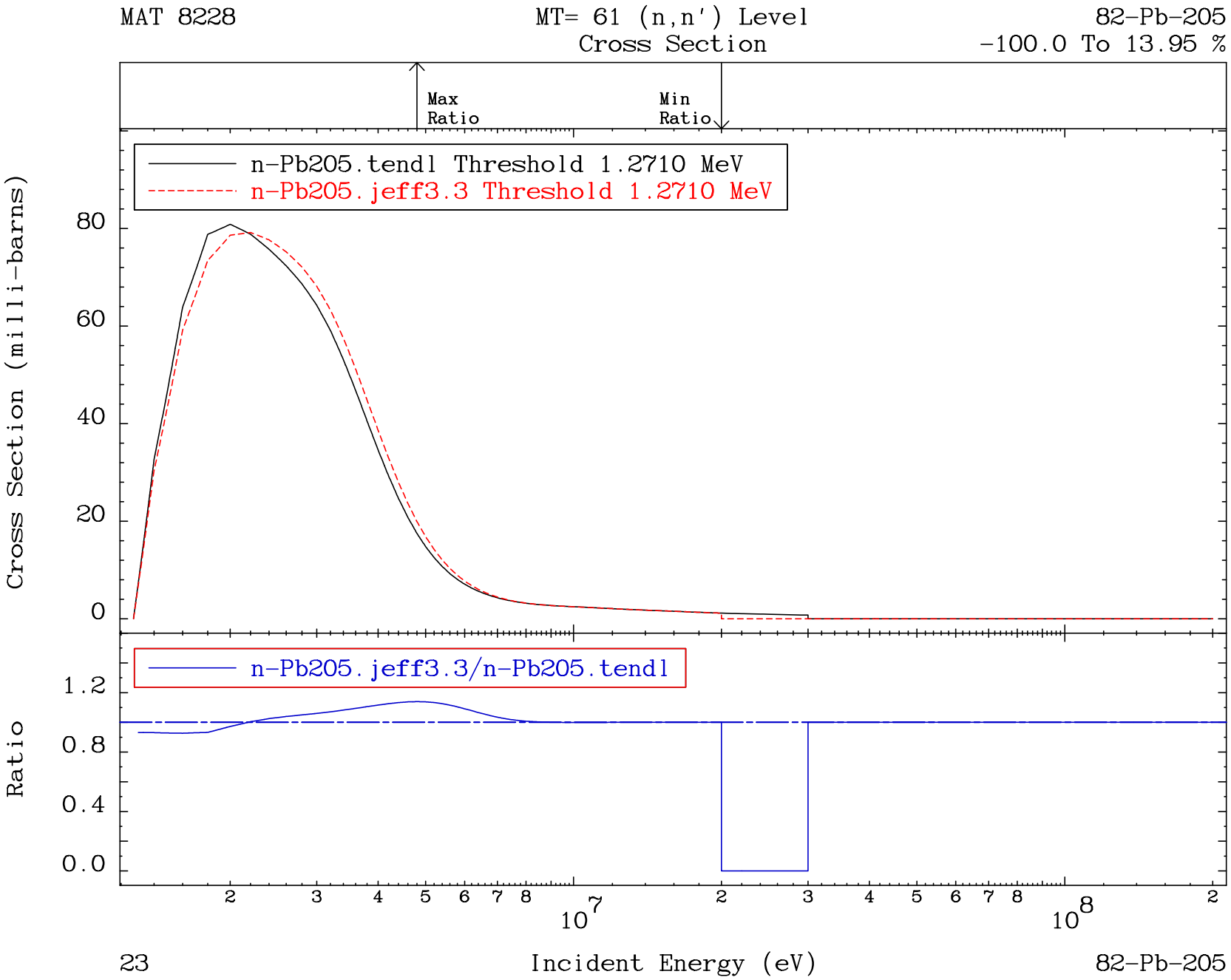

MAT 8228
MT= 56 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 177.9 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 807.33 keV
n-Pb205.jeff3.3 Threshold 807.33 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
3.0
2.0
1.0
0.0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
82-Pb-205

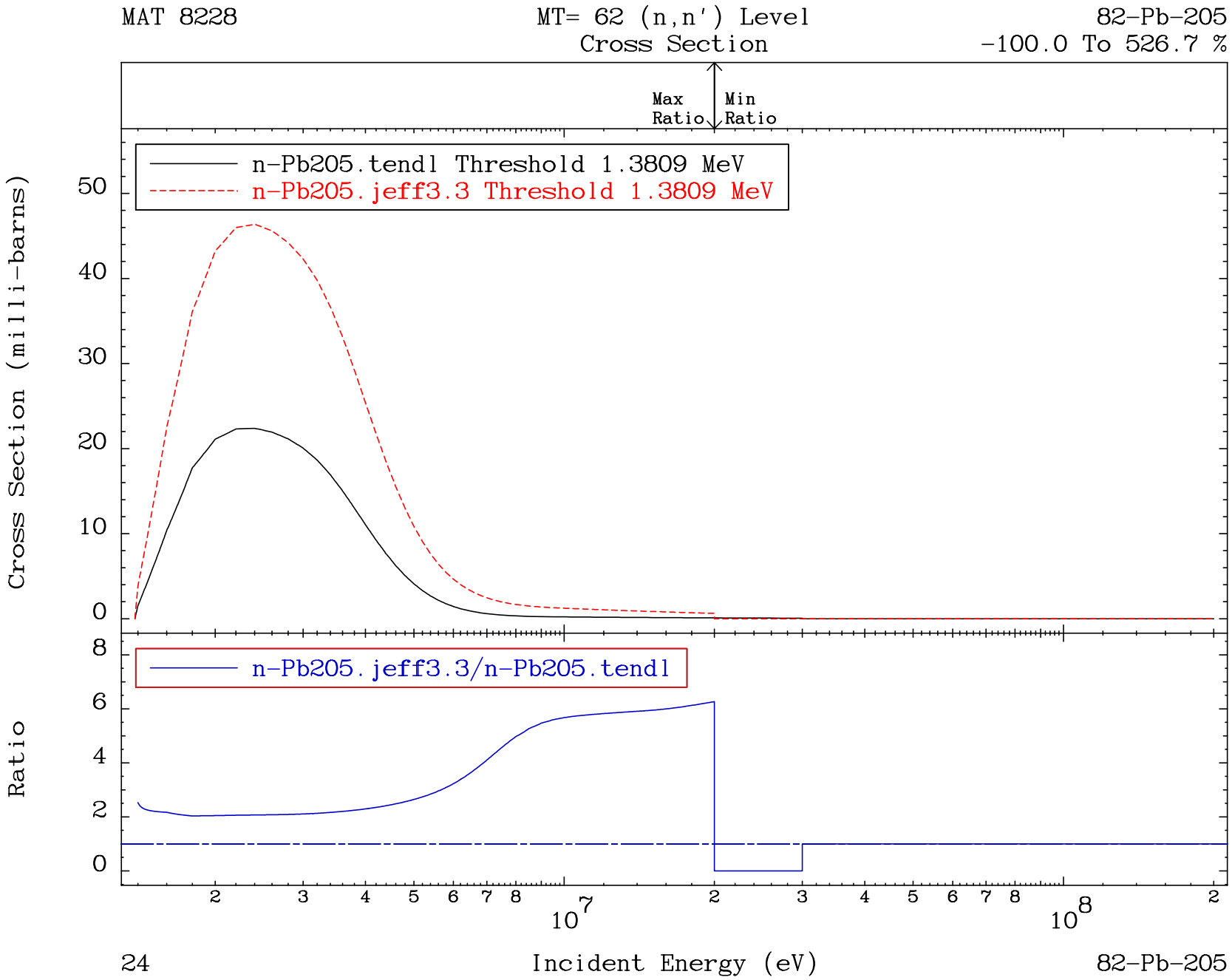

MAT 8228
MT= 57 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 13.99 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 992.49 keV
n-Pb205.jeff3.3 Threshold 992.49 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
10^6
10^7
10^8
19
Incident Energy (eV)
82-Pb-205

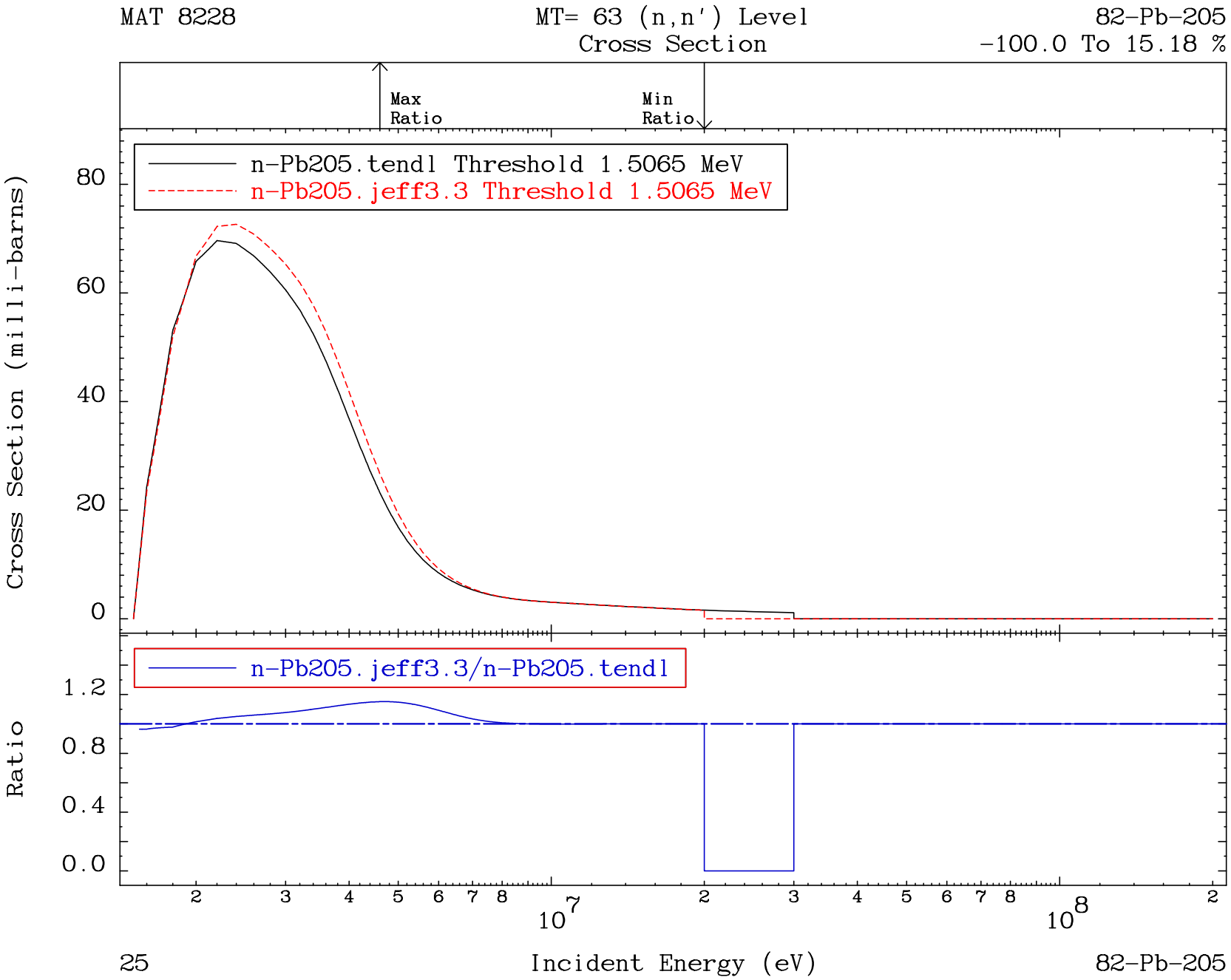

MAT 8228
MT= 58 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 139.2 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.0014 MeV
n-Pb205.jeff3.3 Threshold 1.0014 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
3.0
2.0
1.0
0.0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
82-Pb-205

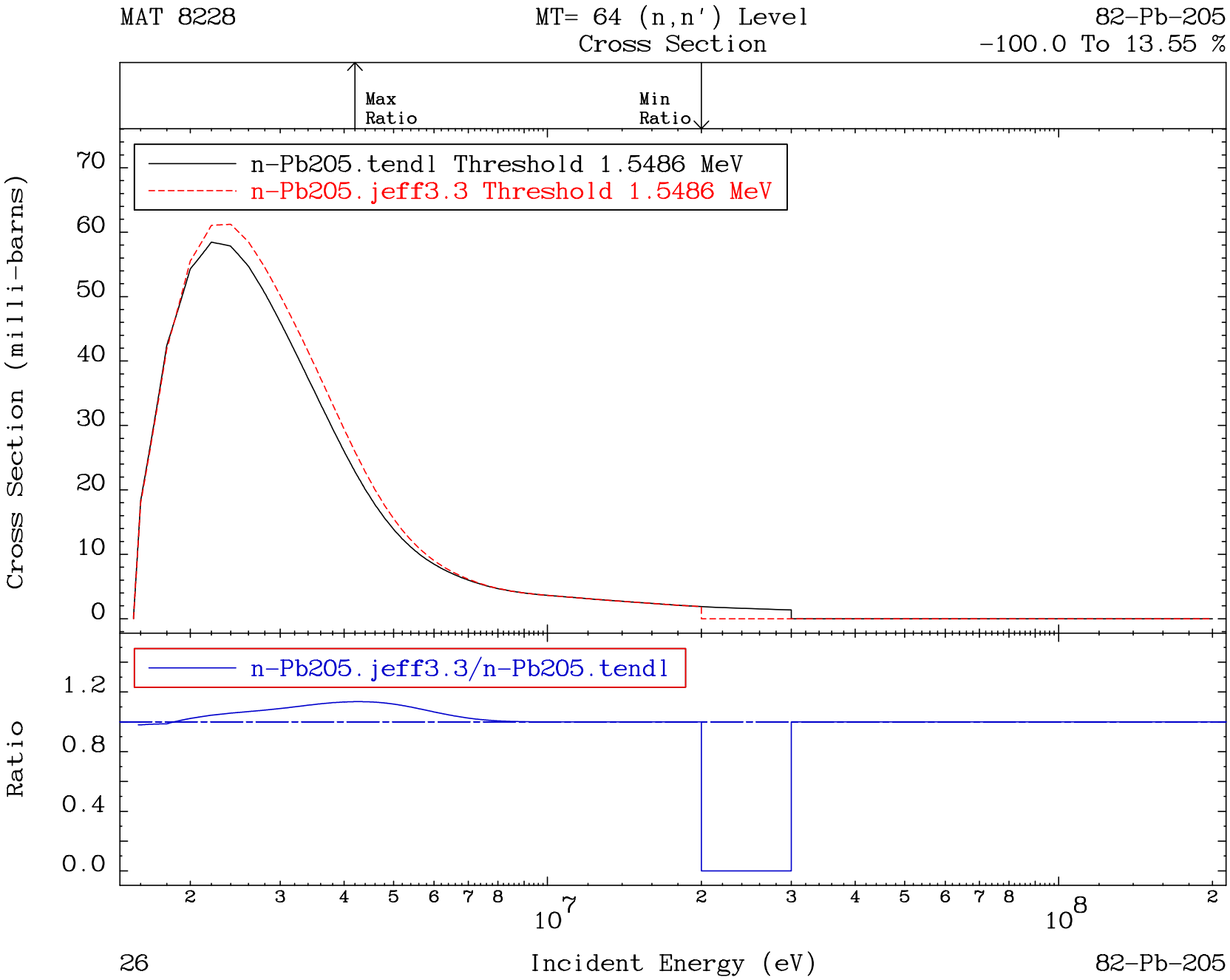

MAT 8228
MT= 59 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 12.69 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.0188 MeV
n-Pb205.jeff3.3 Threshold 1.0188 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
10^6
10^7
10^8
21
Incident Energy (eV)
82-Pb-205

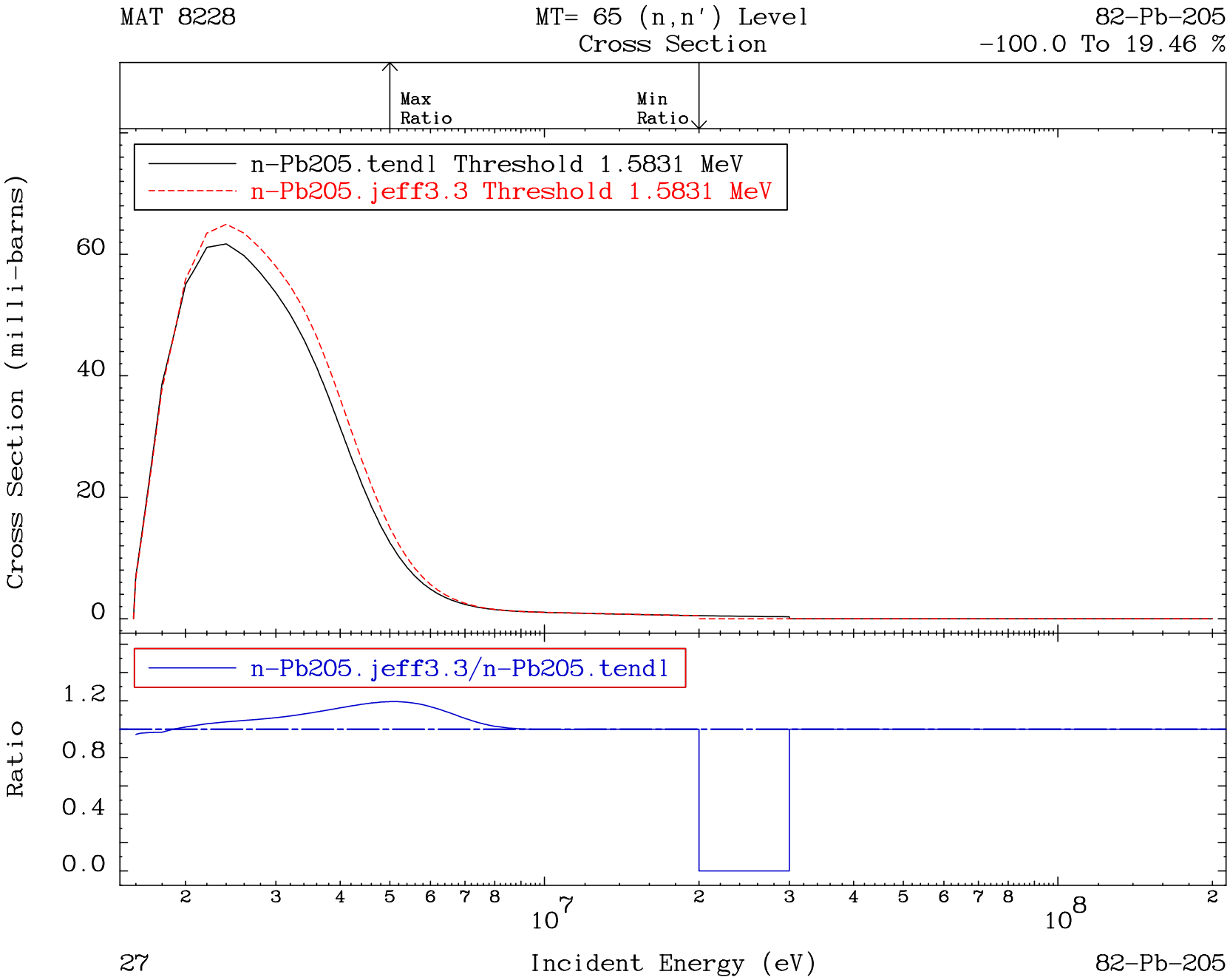

MAT 8228
MT= 60 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 14.02 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.0489 MeV
n-Pb205.jeff3.3 Threshold 1.0489 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
82-Pb-205

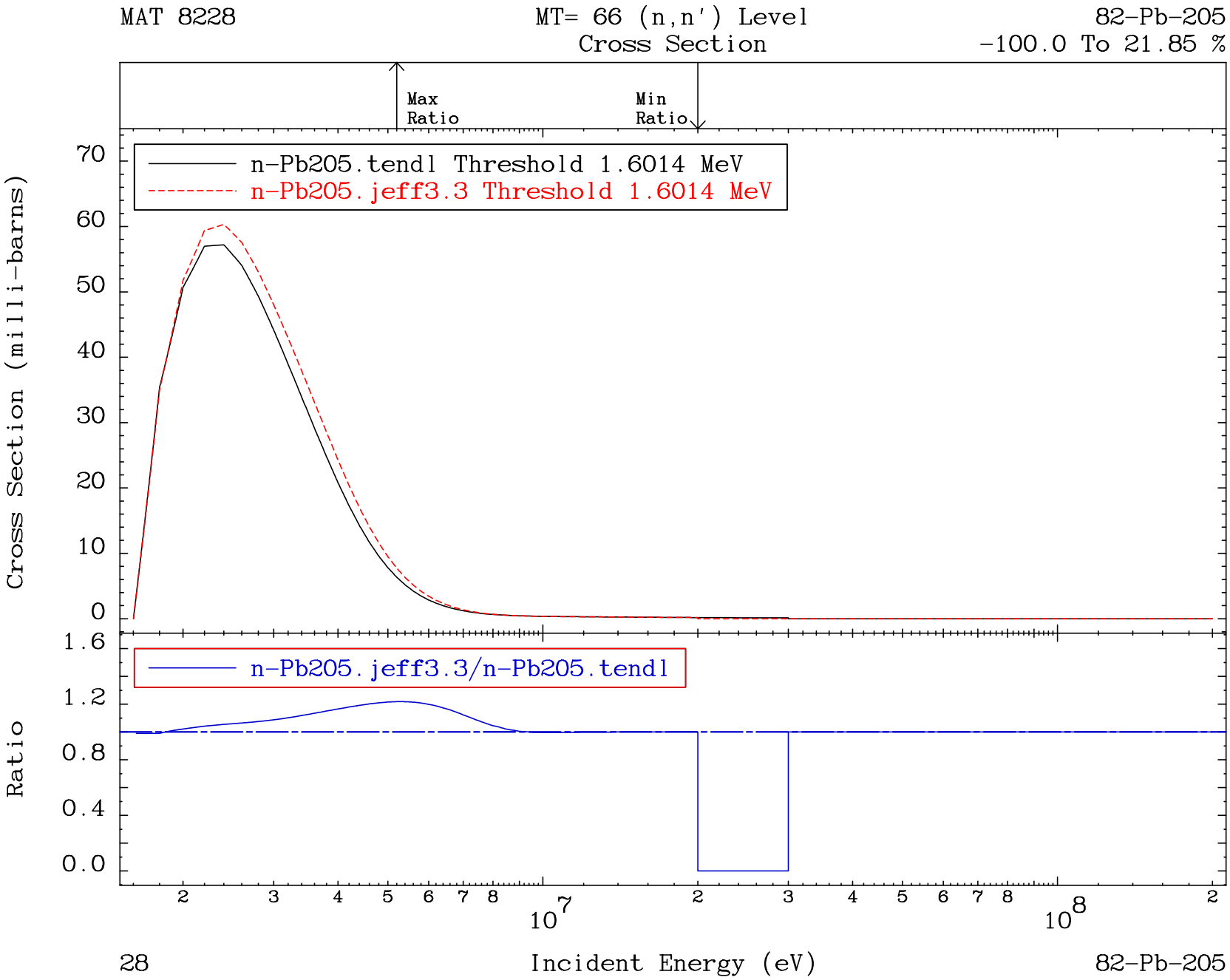

MAT 8228
MT= 61 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 13.95 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.2710 MeV
n-Pb205.jeff3.3 Threshold 1.2710 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
82-Pb-205

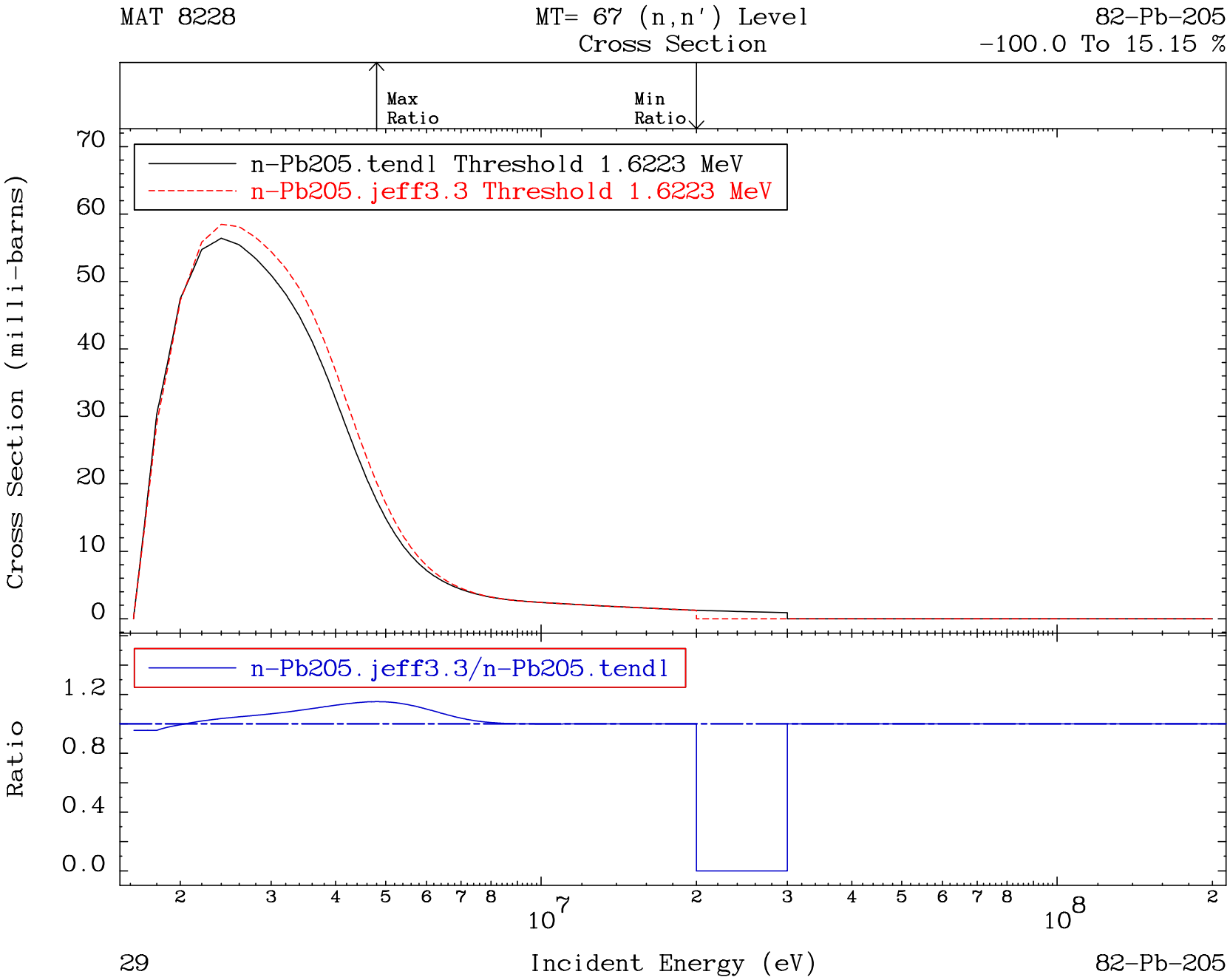

MAT 8228
MT= 62 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 526.7 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.3809 MeV
n-Pb205.jeff3.3 Threshold 1.3809 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
8
6
4
2
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
82-Pb-205

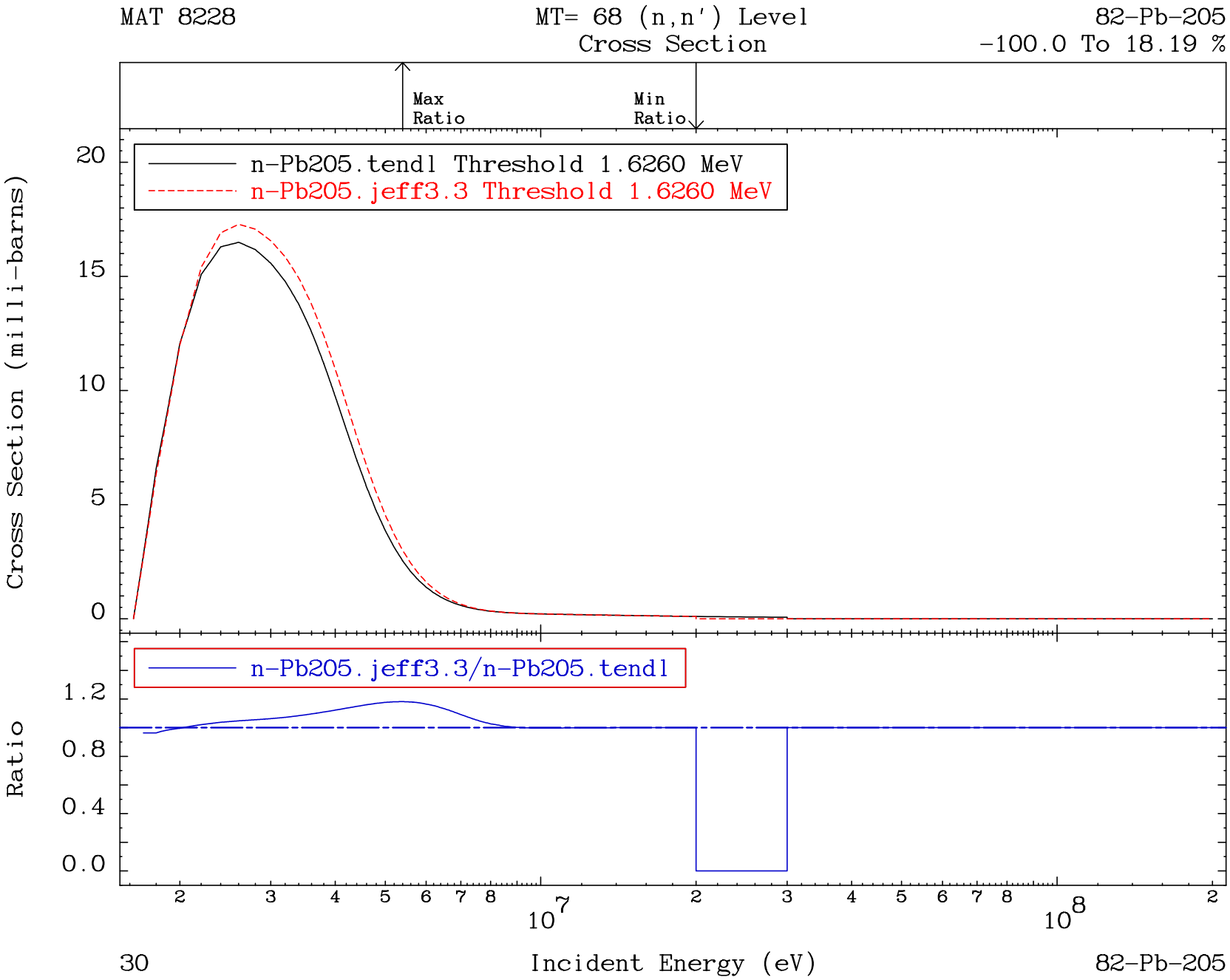

MAT 8228
MT= 63 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 15.18 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.5065 MeV
n-Pb205.jeff3.3 Threshold 1.5065 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
82-Pb-205

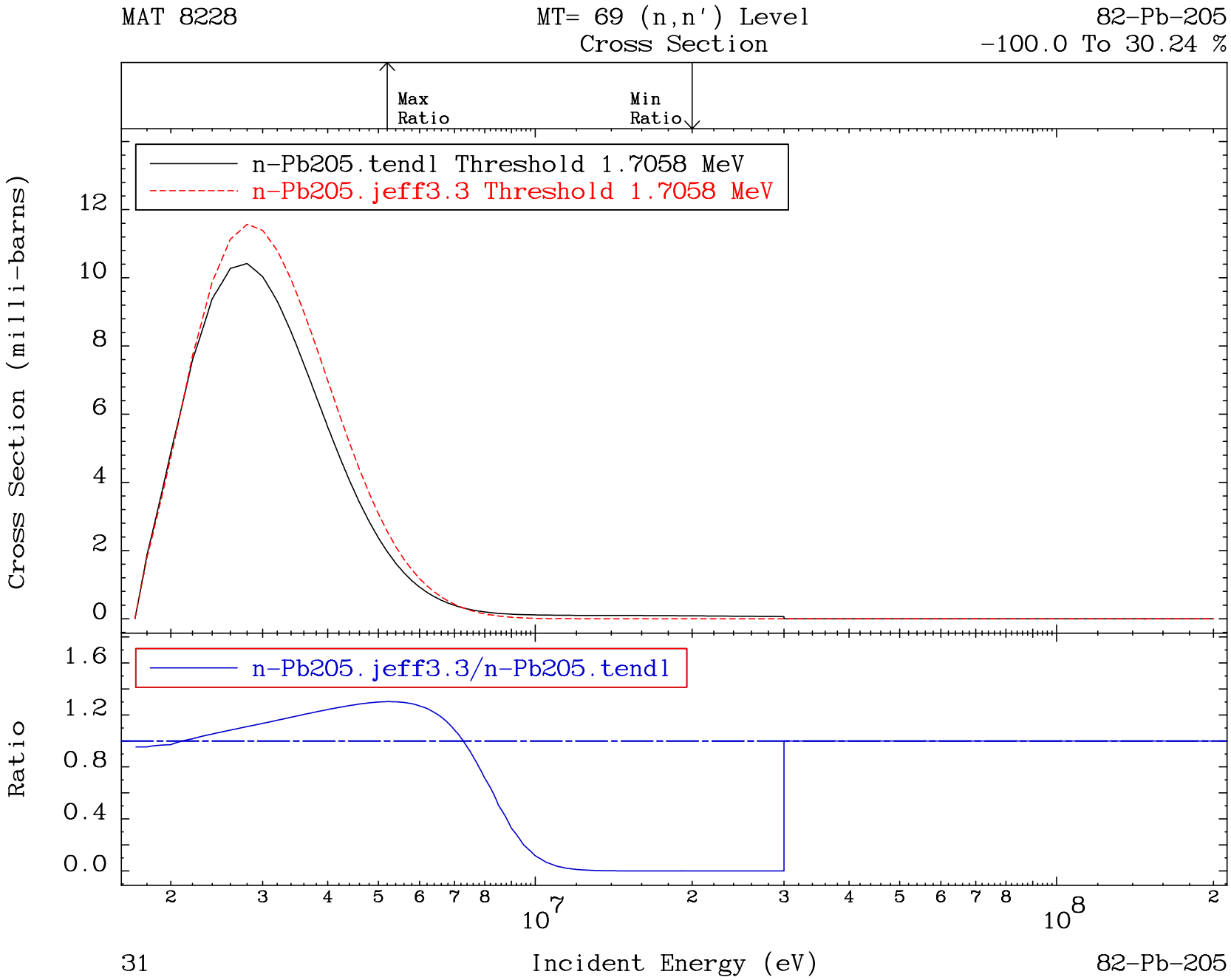

MAT 8228
MT= 64 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 13.55 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.5486 MeV
n-Pb205.jeff3.3 Threshold 1.5486 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
26
Incident Energy (eV)
82-Pb-205

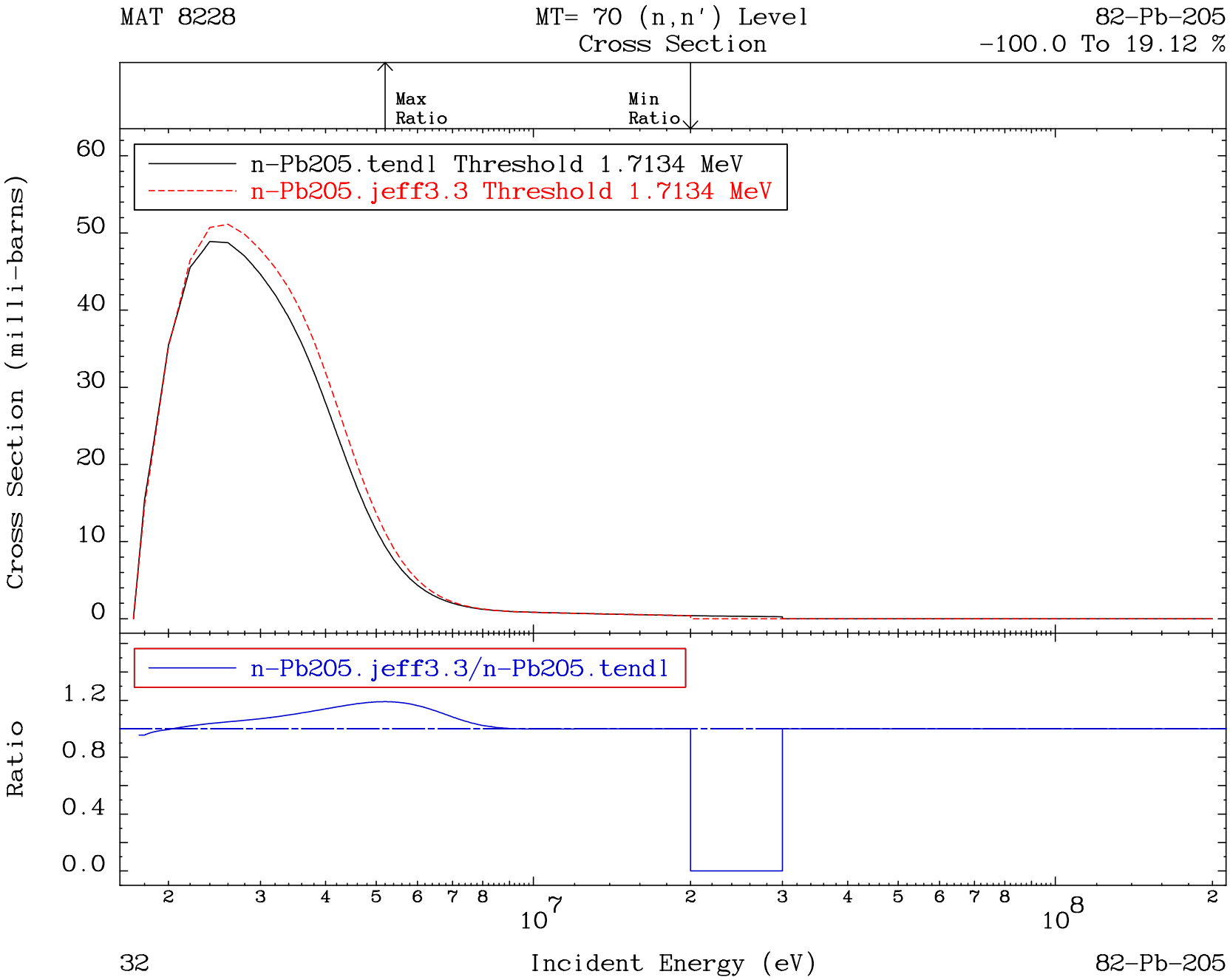

MAT 8228
MT= 65 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 19.46 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.5831 MeV
n-Pb205.jeff3.3 Threshold 1.5831 MeV
Cross Section (milli-barns)
60
40
20
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
82-Pb-205

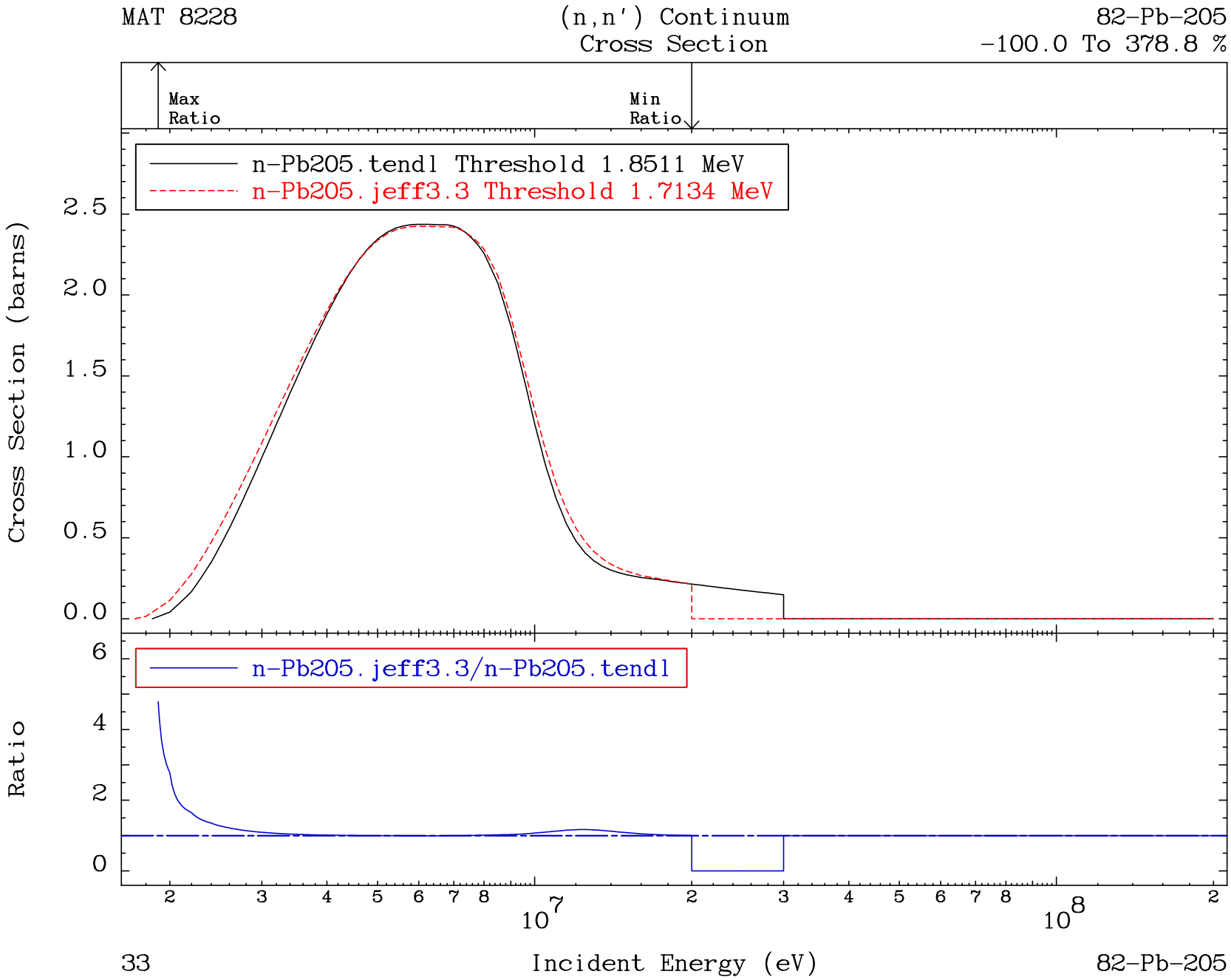

MAT 8228
MT= 66 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 21.85 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.6014 MeV
n-Pb205.jeff3.3 Threshold 1.6014 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.6
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
28
Incident Energy (eV)
82-Pb-205

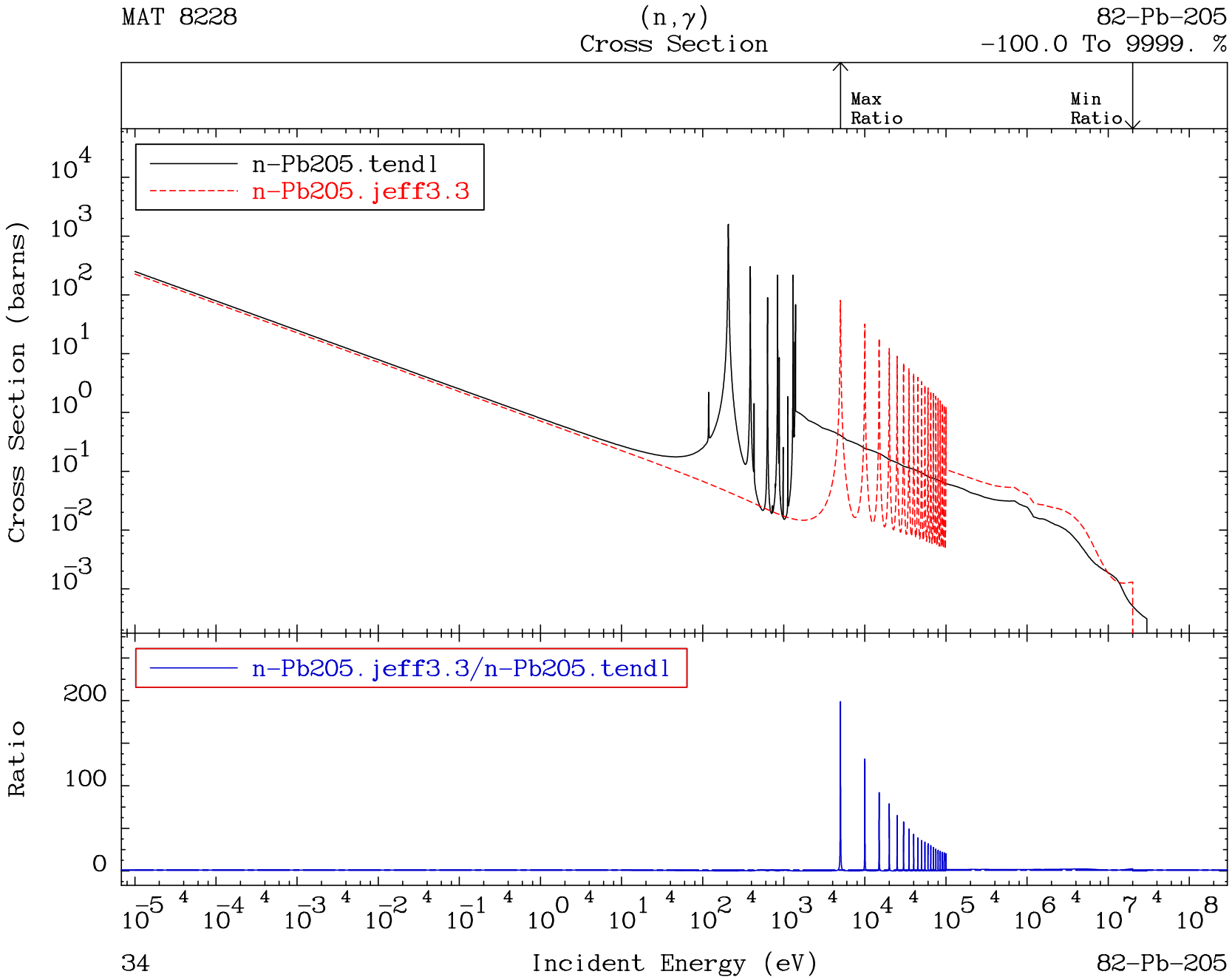

MAT 8228
MT= 67 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 15.15 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.6223 MeV
n-Pb205.jeff3.3 Threshold 1.6223 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
29
Incident Energy (eV)
82-Pb-205

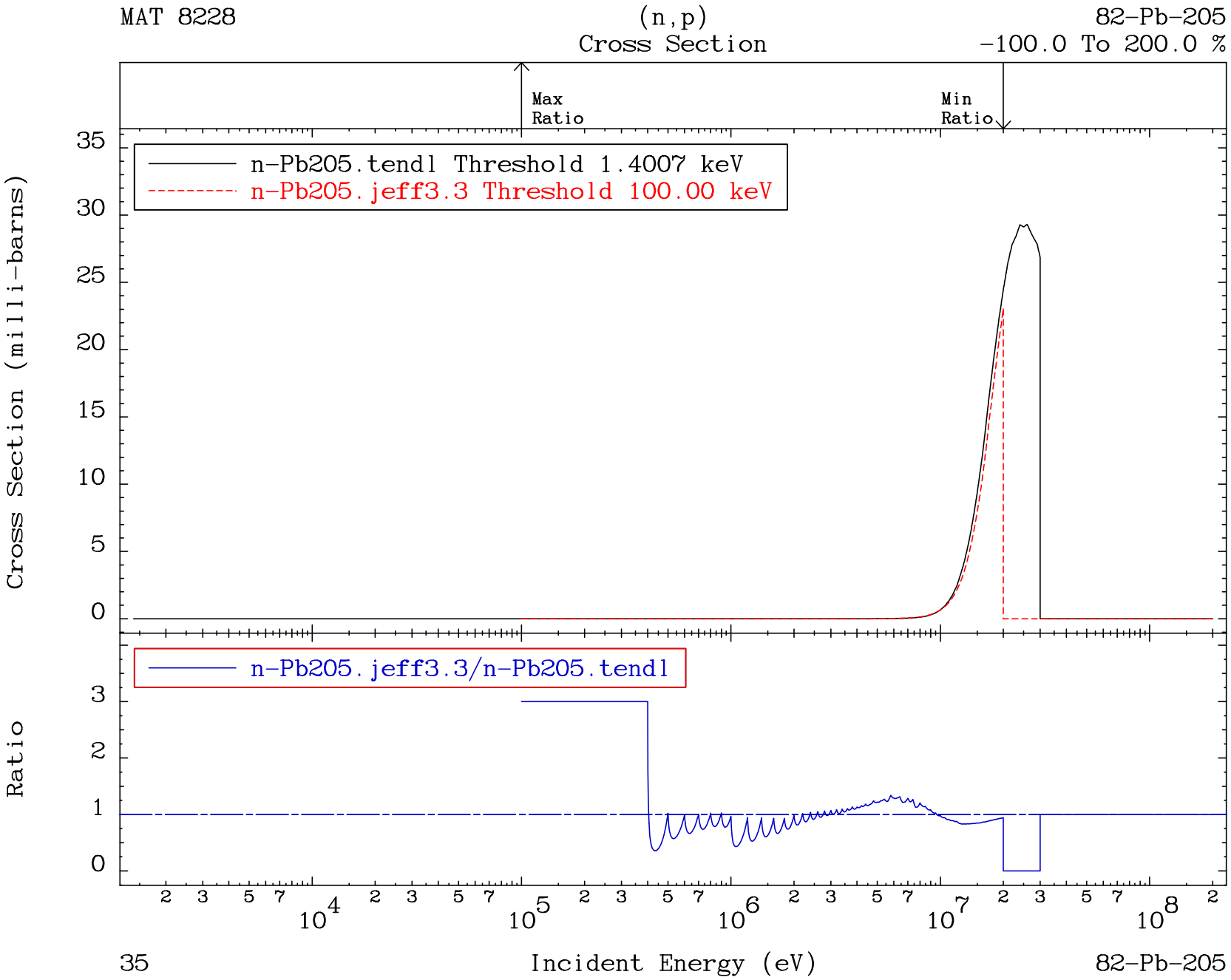

MAT 8228
MT= 68 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 18.19 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.6260 MeV
n-Pb205.jeff3.3 Threshold 1.6260 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
82-Pb-205

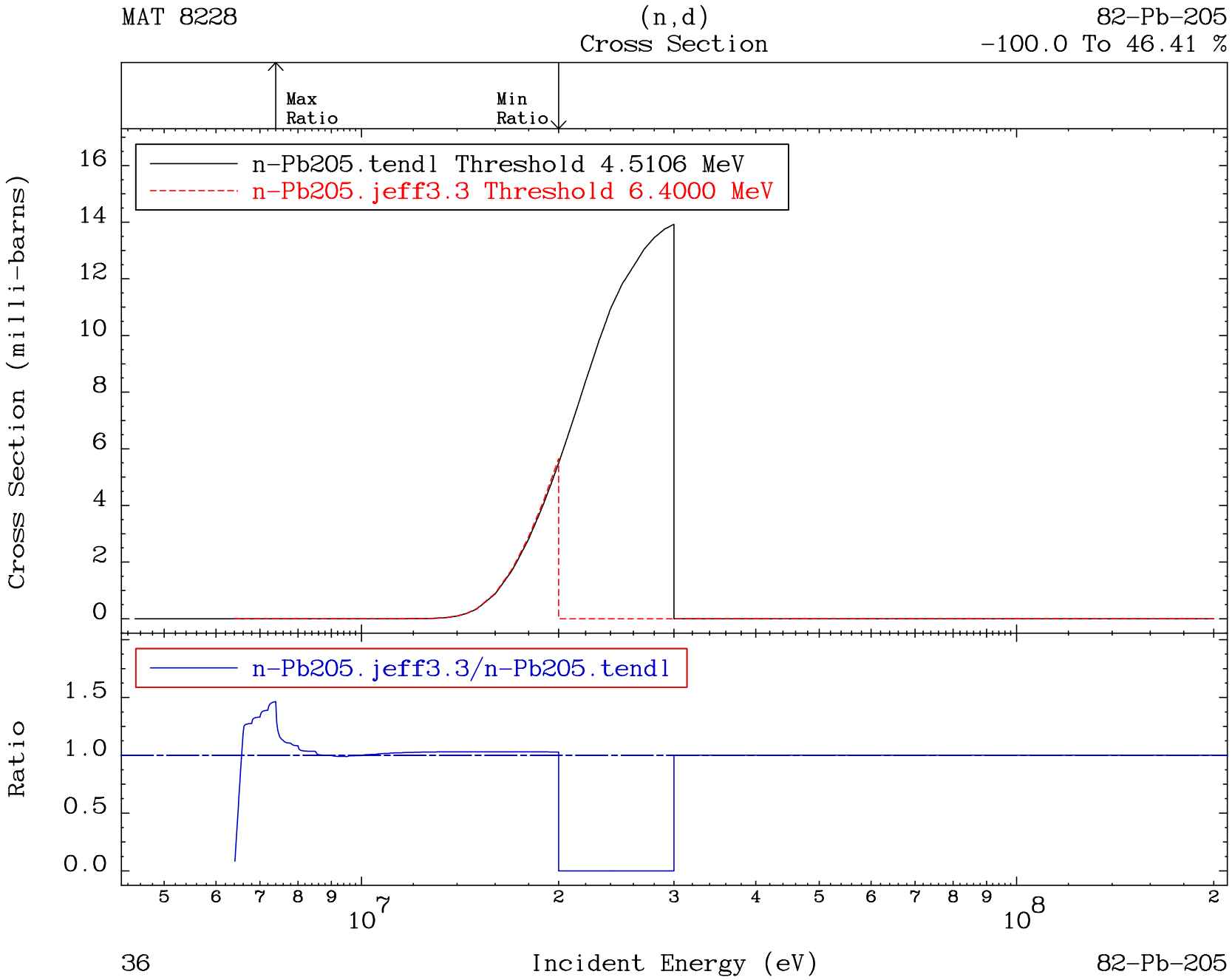

MAT 8228
MT= 69 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 30.24 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.7058 MeV
n-Pb205.jeff3.3 Threshold 1.7058 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
0.0
0.4
0.8
1.2
1.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
31
Incident Energy (eV)
82-Pb-205

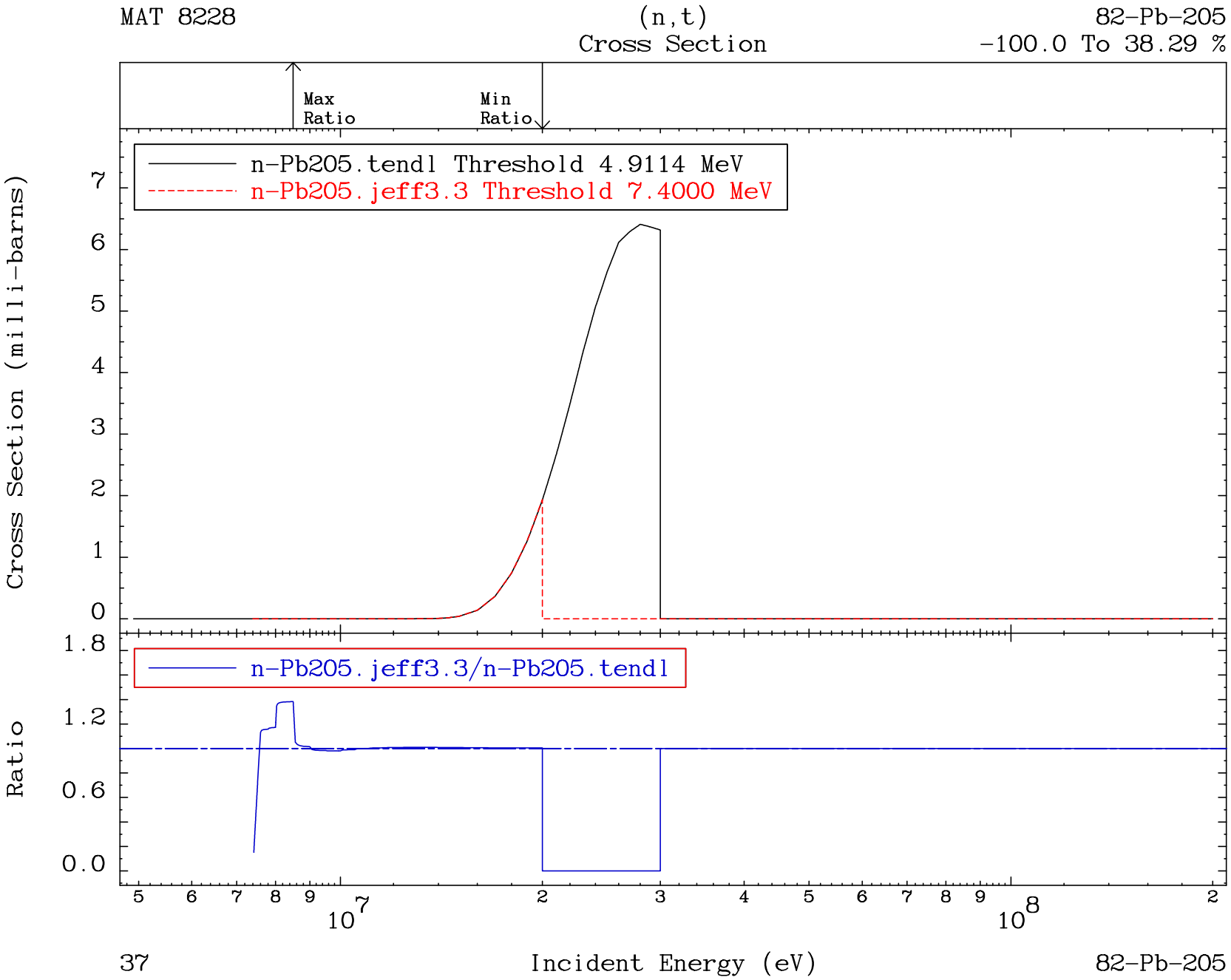

MAT 8228
MT= 70 (n,n') Level
Cross Section
82-Pb-205
-100.0 To 19.12 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.7134 MeV
n-Pb205.jeff3.3 Threshold 1.7134 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
32
Incident Energy (eV)
82-Pb-205

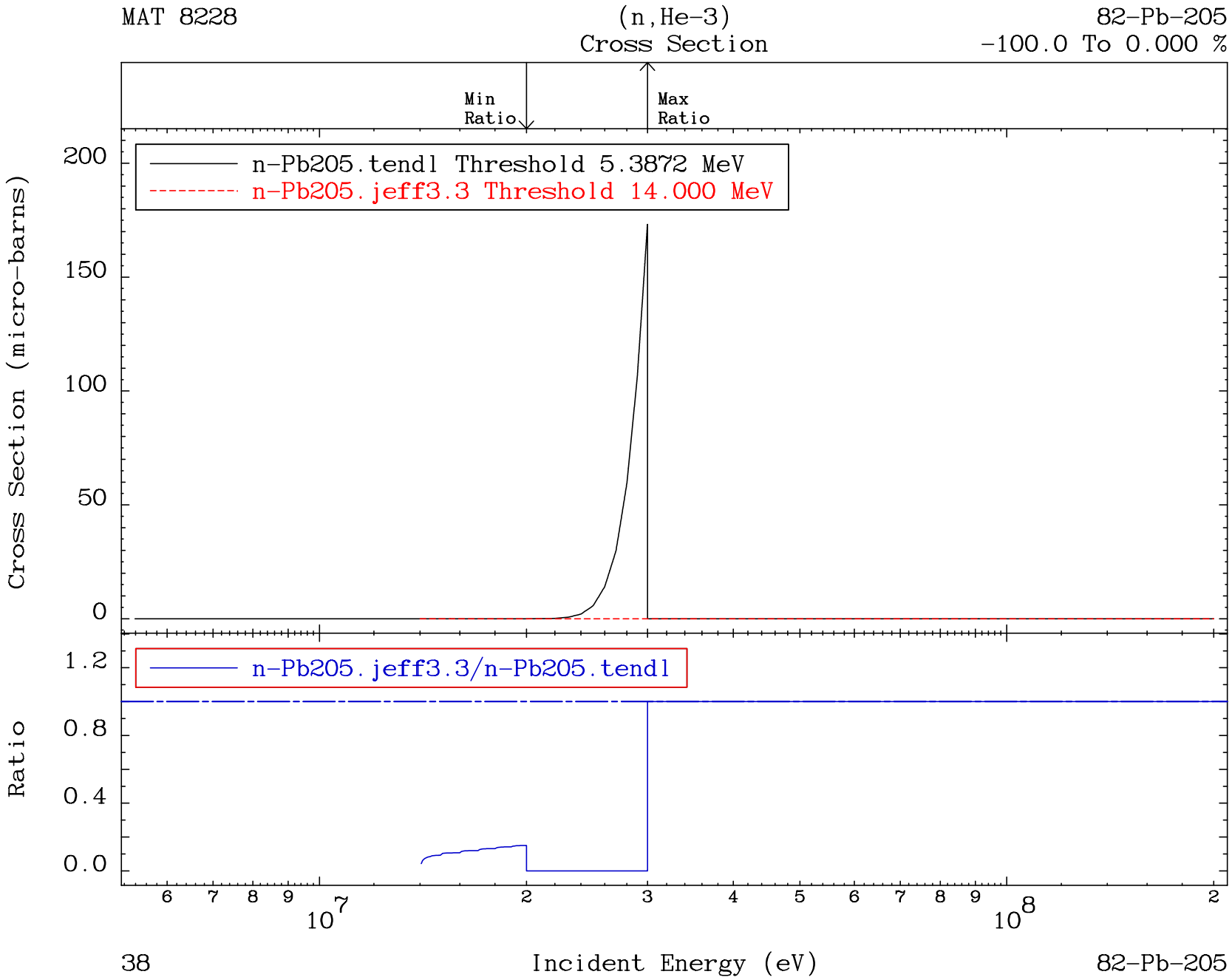

MAT 8228
(n,n') Continuum
Cross Section
82-Pb-205
-100.0 To 378.8 %
Max
Ratio
Min
Ratio
n-Pb205.tendl Threshold 1.8511 MeV
n-Pb205.jeff3.3 Threshold 1.7134 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
6
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
82-Pb-205

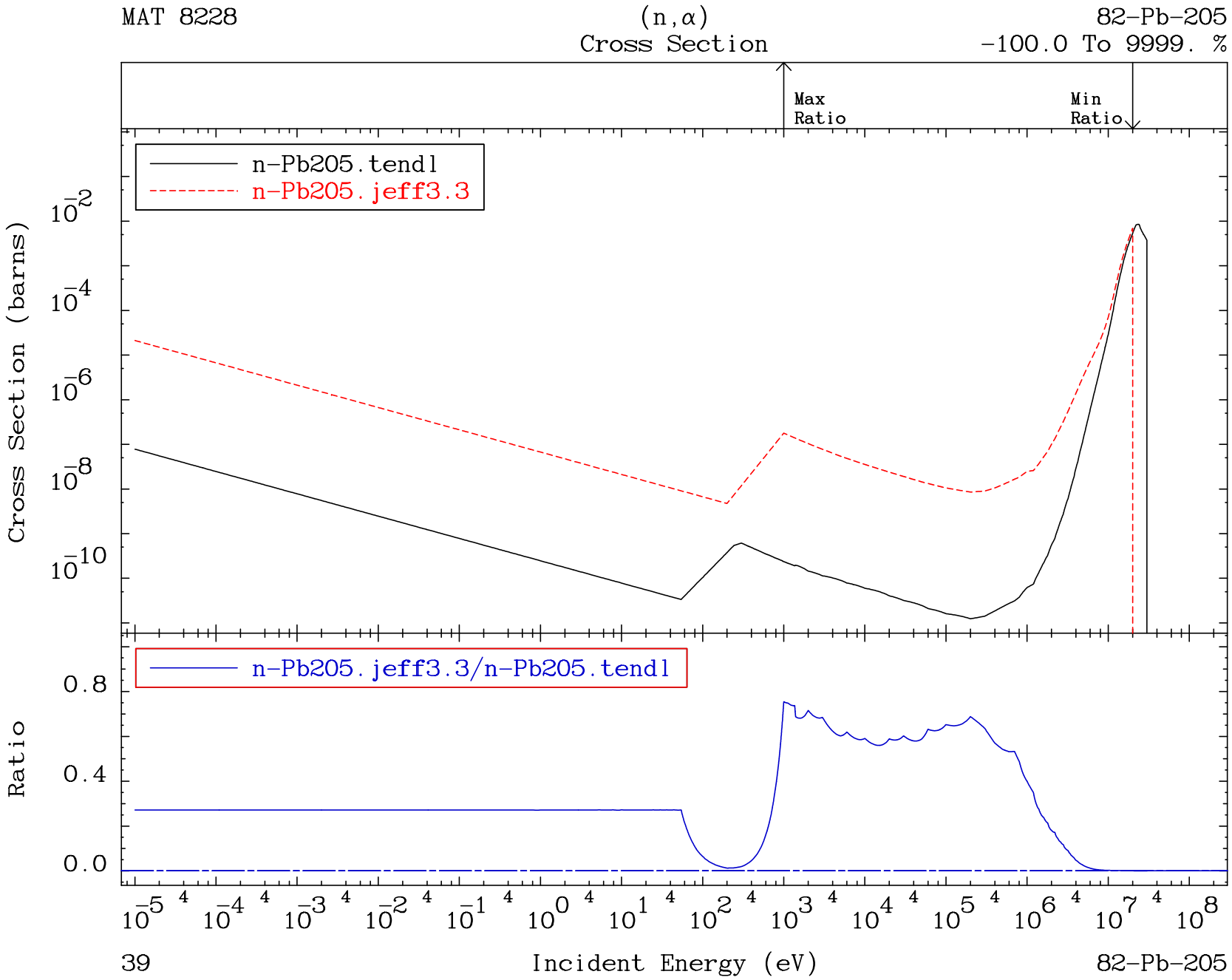

MAT 8228
(n,γ)
Cross Section
82-Pb-205
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
34
82-Pb-205

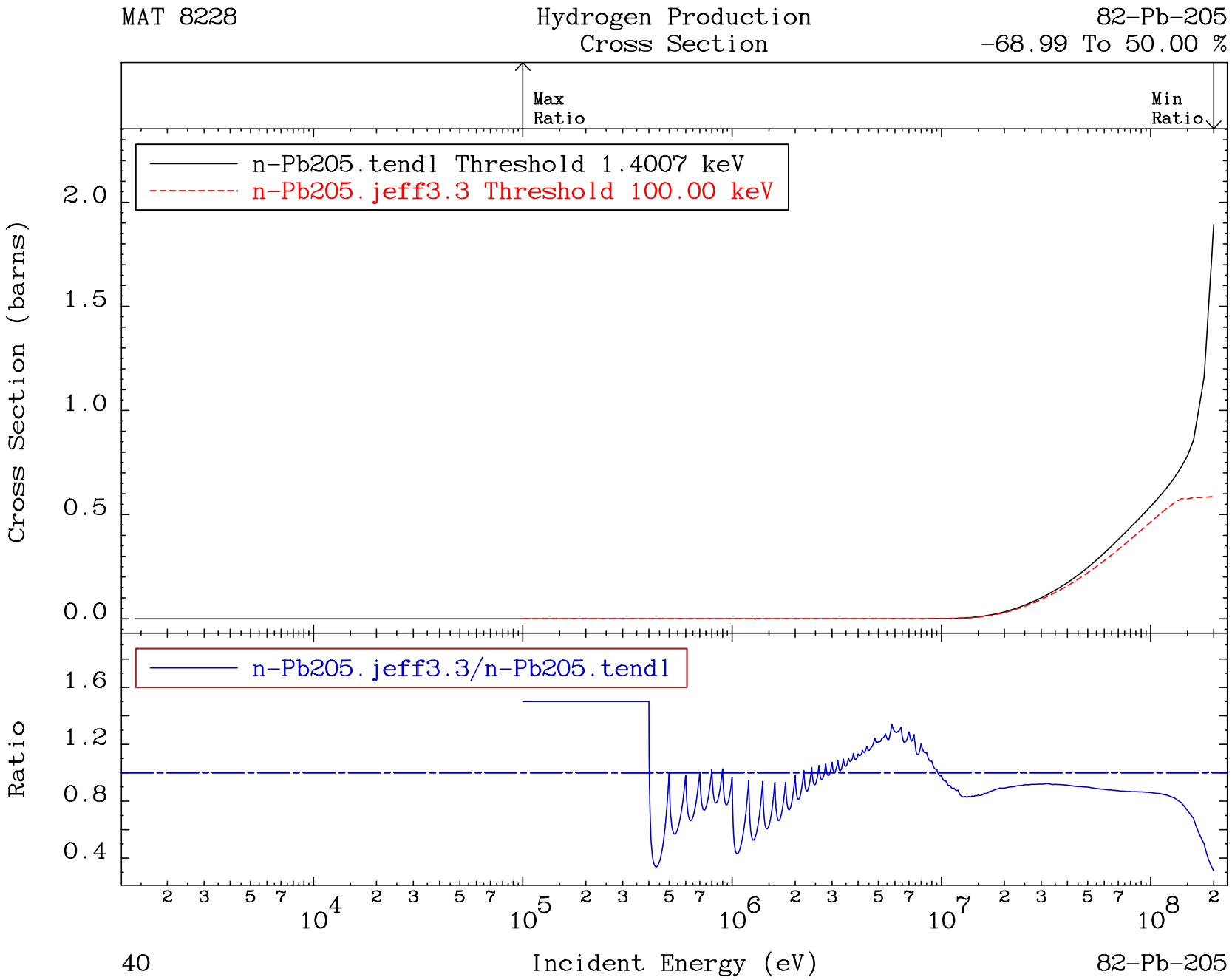

MAT 8228
(n,p)
Cross Section
82-Pb-205
-100.0 To 200.0 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.4007 keV
n-Pb205.jeff3.3 Threshold 100.00 keV
Cross Section (milli-barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
35
82-Pb-205

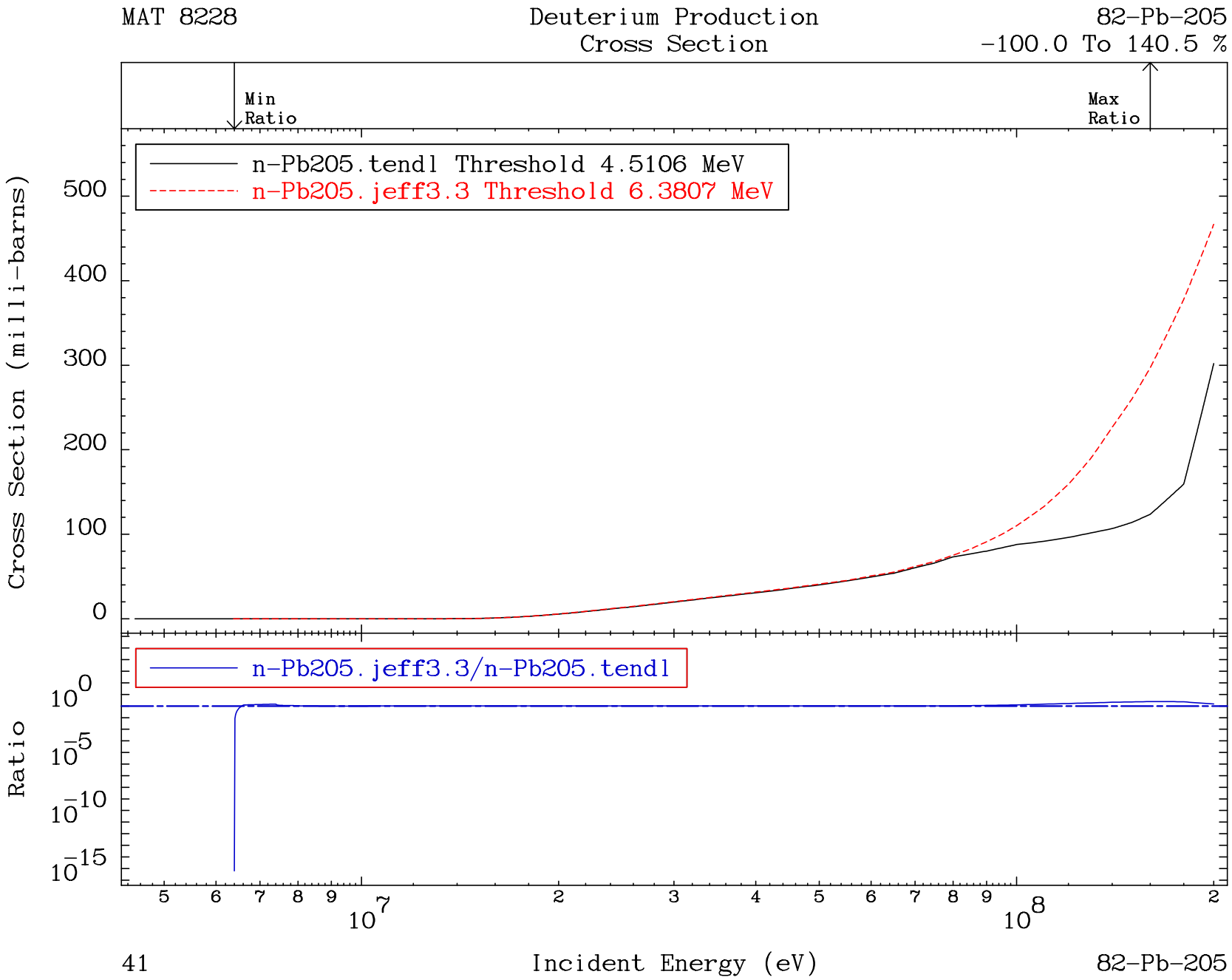

MAT 8228
(n,d)
Cross Section
82-Pb-205
-100.0 To 46.41 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 4.5106 MeV
n-Pb205.jeff3.3 Threshold 6.4000 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.5
1.0
0.5
0.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
82-Pb-205

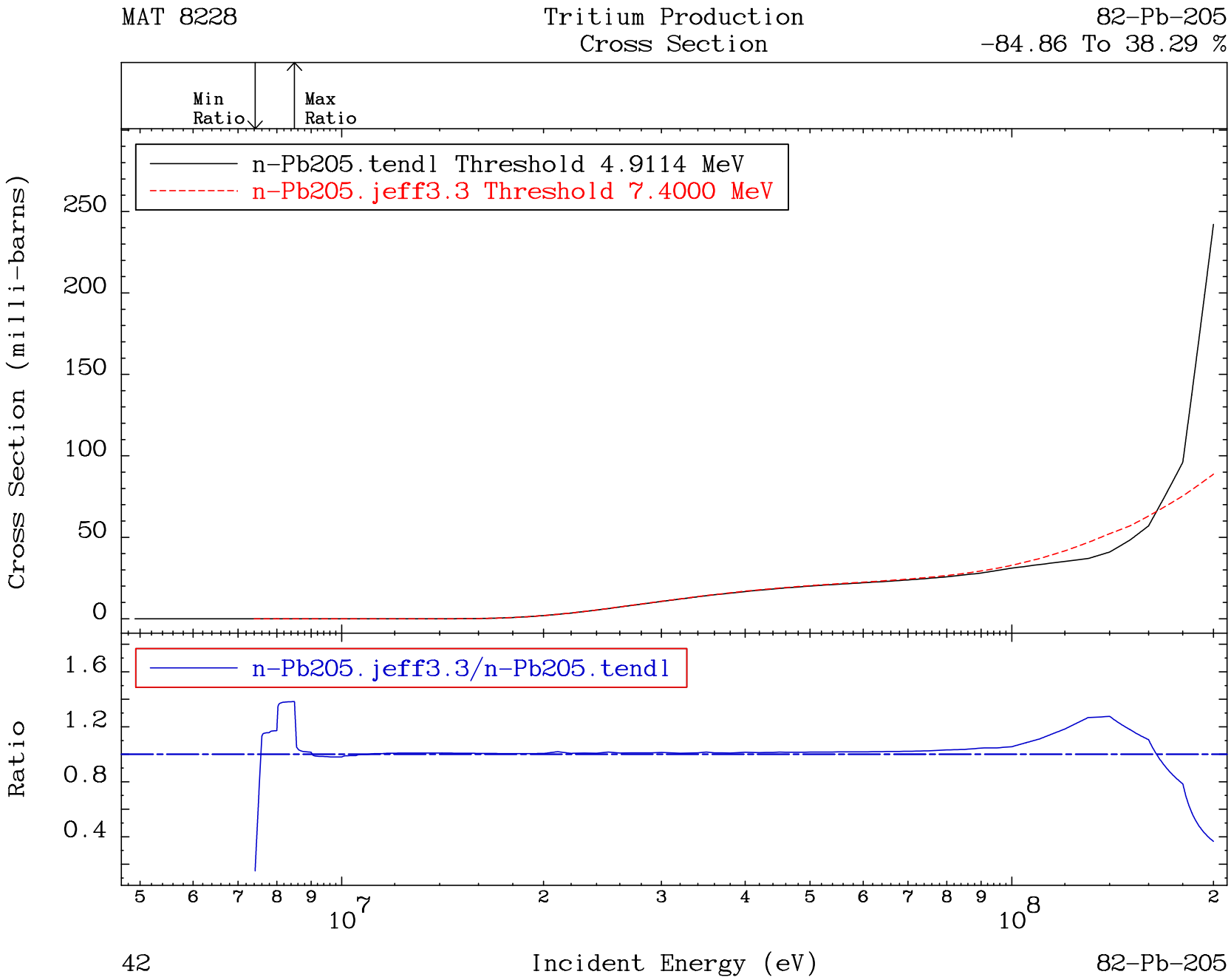

MAT 8228
(n,t)
Cross Section
82-Pb-205
-100.0 To 38.29 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 4.9114 MeV
n-Pb205.jeff3.3 Threshold 7.4000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
0.0
0.6
1.2
1.8
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
82-Pb-205

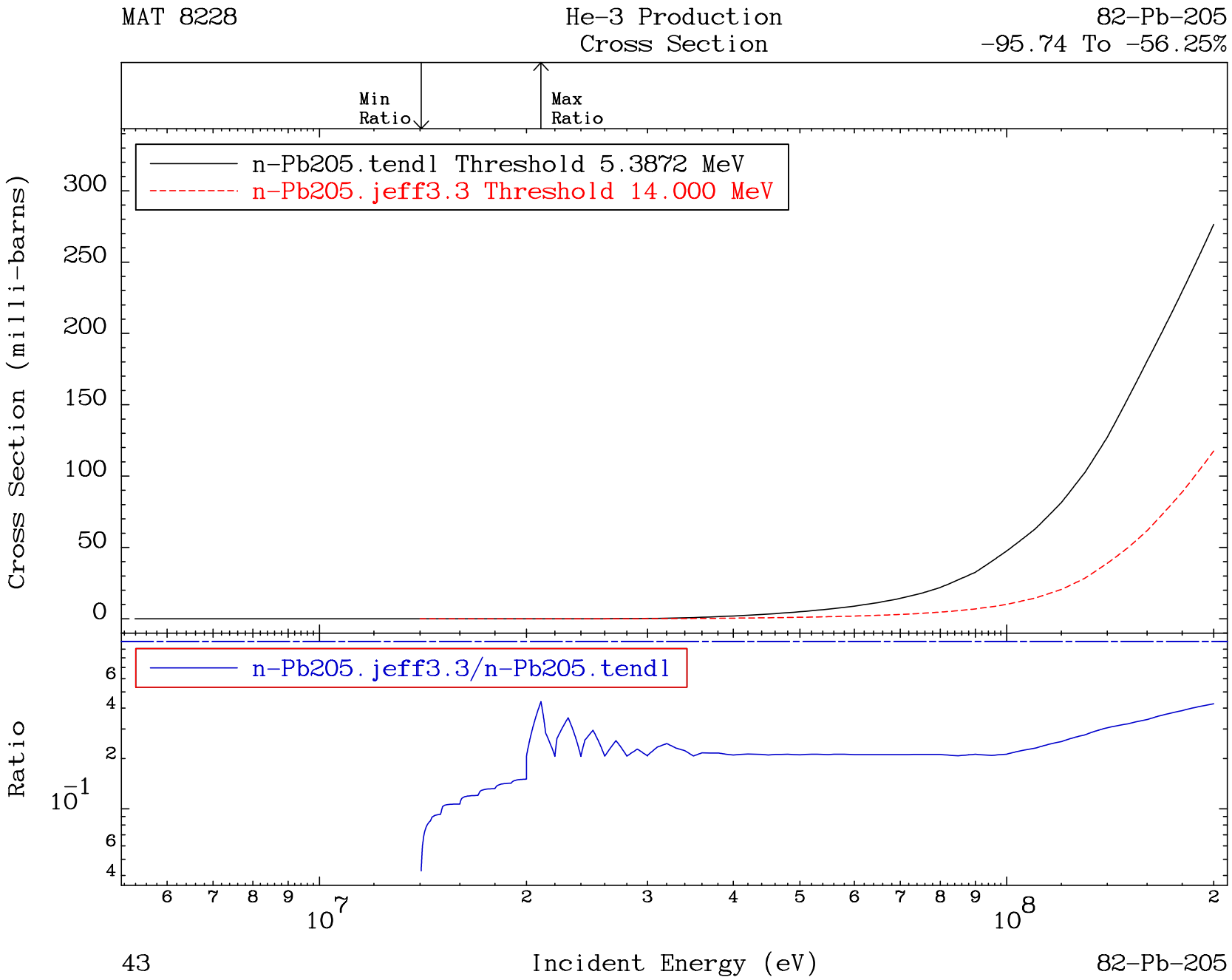

MAT 8228
(n,He-3)
Cross Section
82-Pb-205
-100.0 To 0.000 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 5.3872 MeV
n-Pb205.jeff3.3 Threshold 14.000 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
82-Pb-205

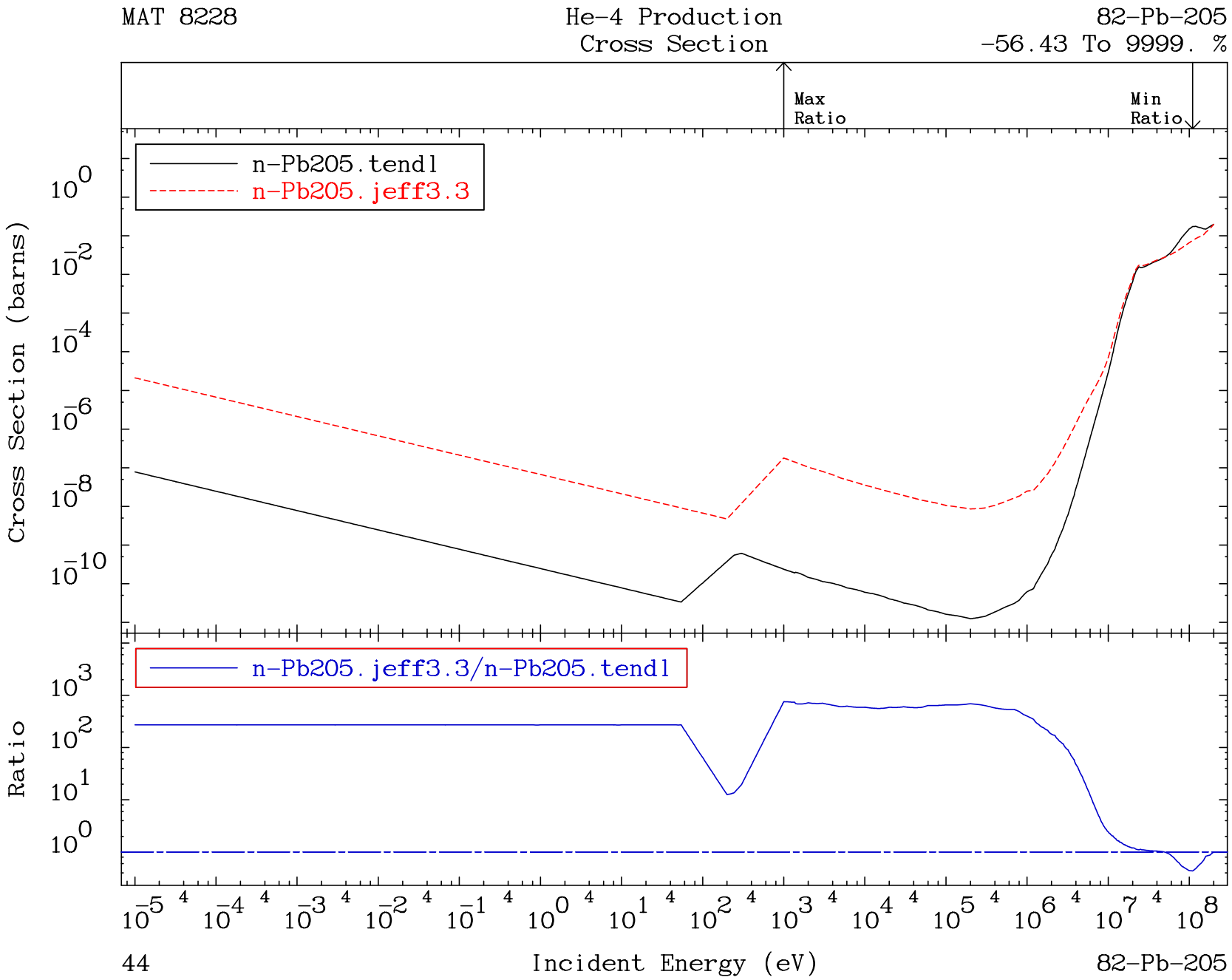

MAT 8228
(n,α)
Cross Section
82-Pb-205
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
39
82-Pb-205

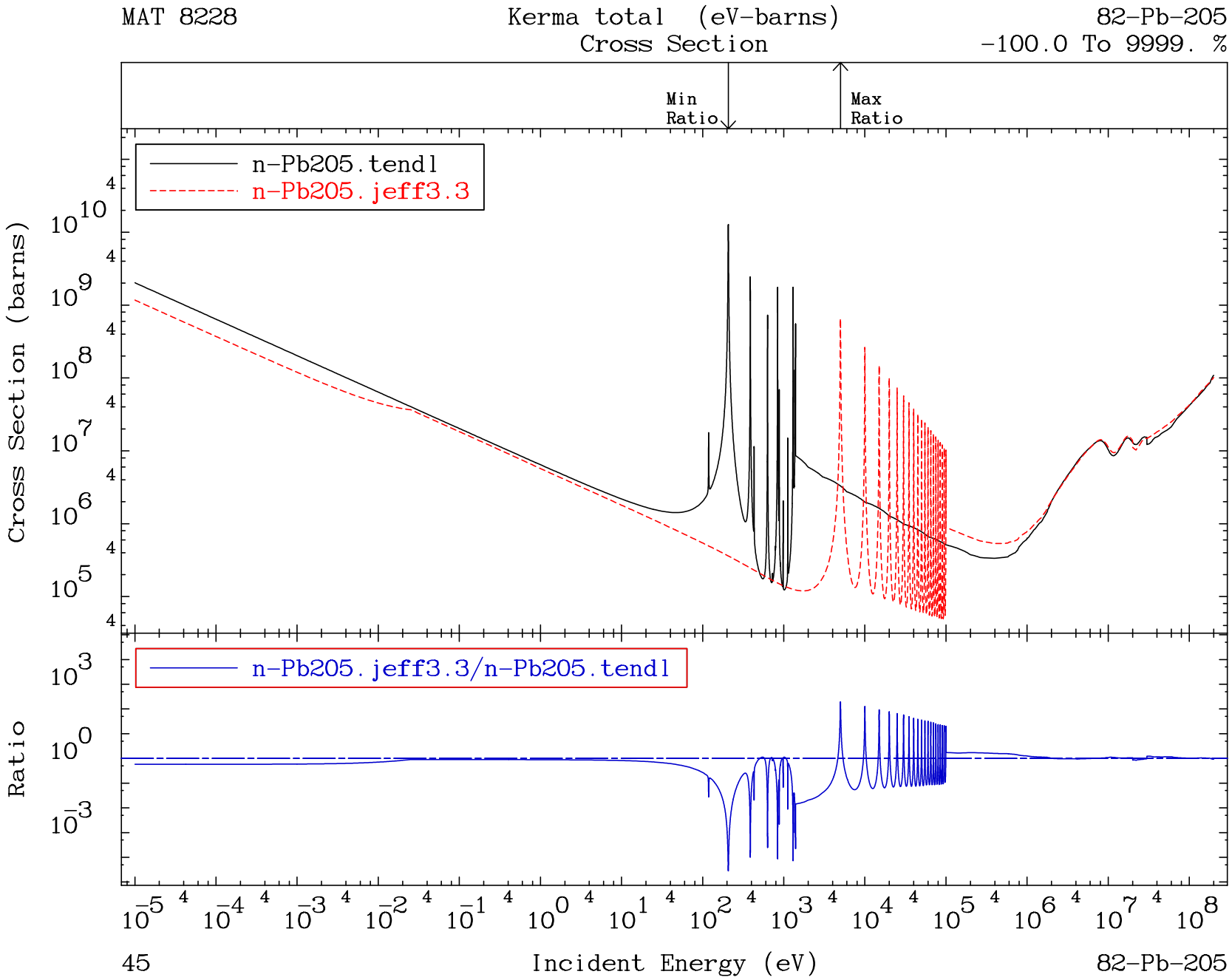

MAT 8228
Hydrogen Production
Cross Section
82-Pb-205
-68.99 To 50.00 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.4007 keV
n-Pb205.jeff3.3 Threshold 100.00 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.6
1.2
0.8
0.4
2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
40
Incident Energy (eV)
82-Pb-205

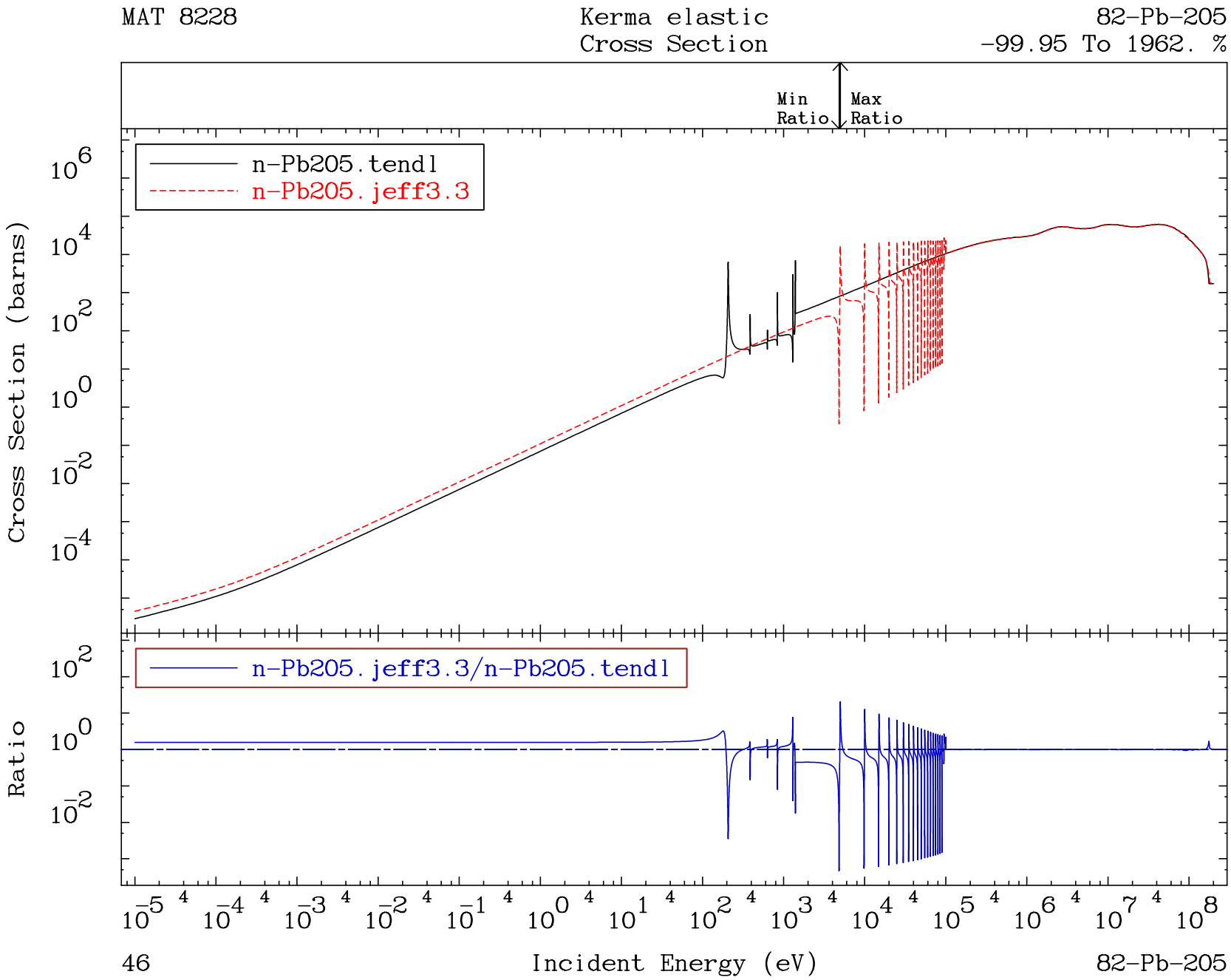

MAT 8228
Deuterium Production
Cross Section
82-Pb-205
-100.0 To 140.5 %
Min
Ratio
Max
Ratio
n-Pb205.tendl Threshold 4.5106 MeV
n-Pb205.jeff3.3 Threshold 6.3807 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
10^0
10^-5
10^-10
10^-15
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
82-Pb-205

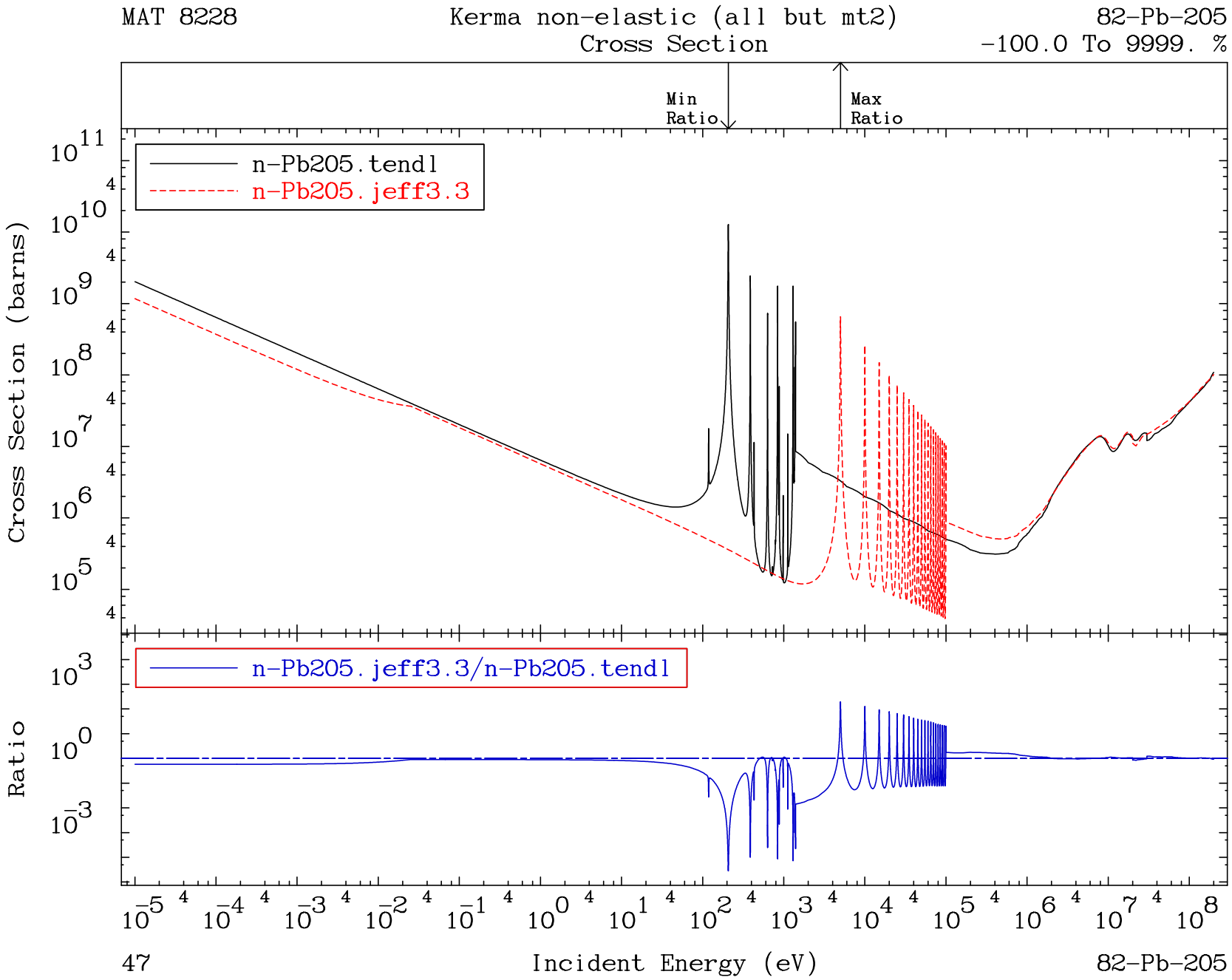

MAT 8228
Tritium Production
Cross Section
82-Pb-205
-84.86 To 38.29 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 4.9114 MeV
n-Pb205.jeff3.3 Threshold 7.4000 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.6
1.2
0.8
0.4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
82-Pb-205

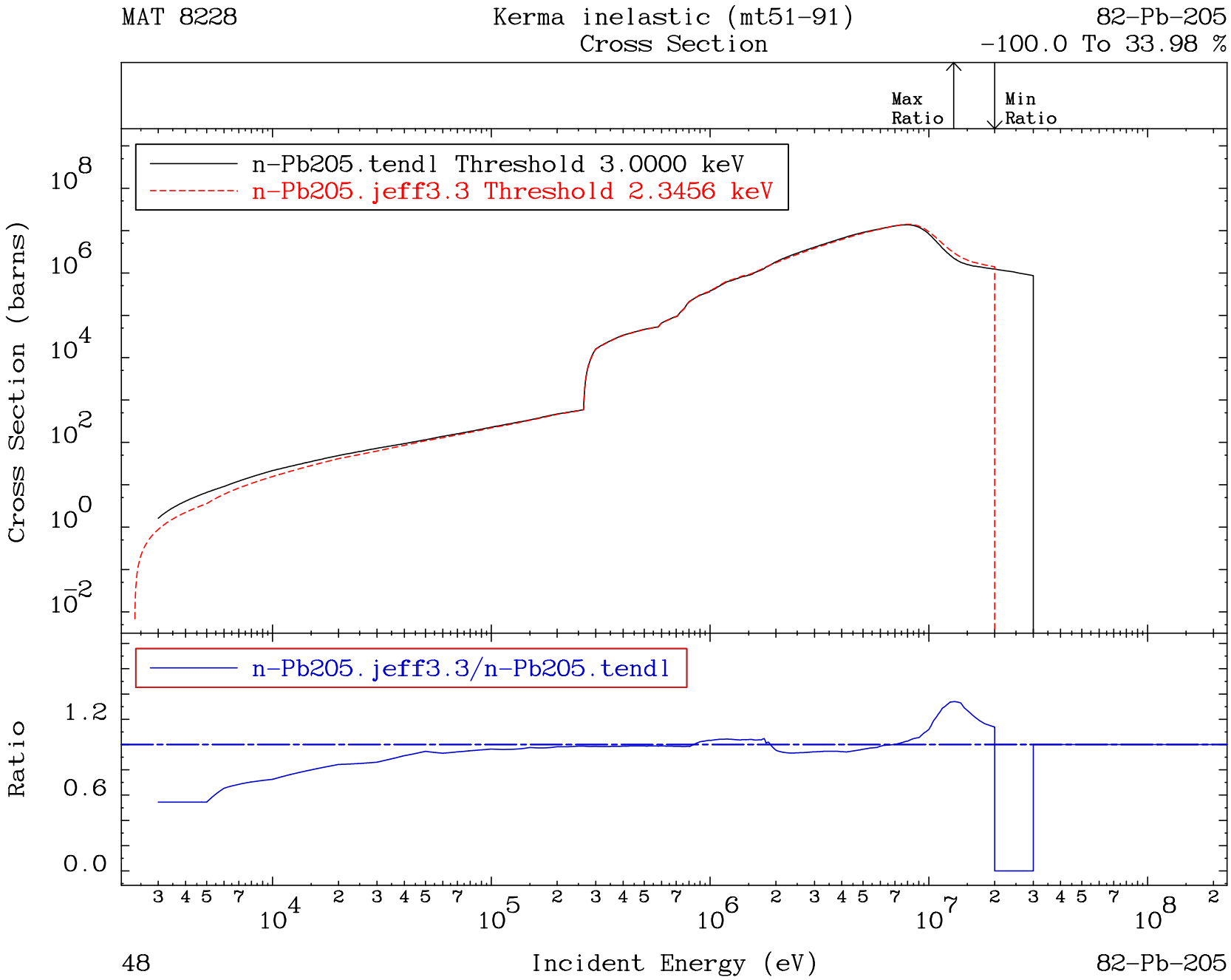

MAT 8228
He-3 Production
Cross Section
82-Pb-205
-95.74 To -56.25%
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 5.3872 MeV
n-Pb205.jeff3.3 Threshold 14.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
6
4
2
10^-1
6
4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
82-Pb-205

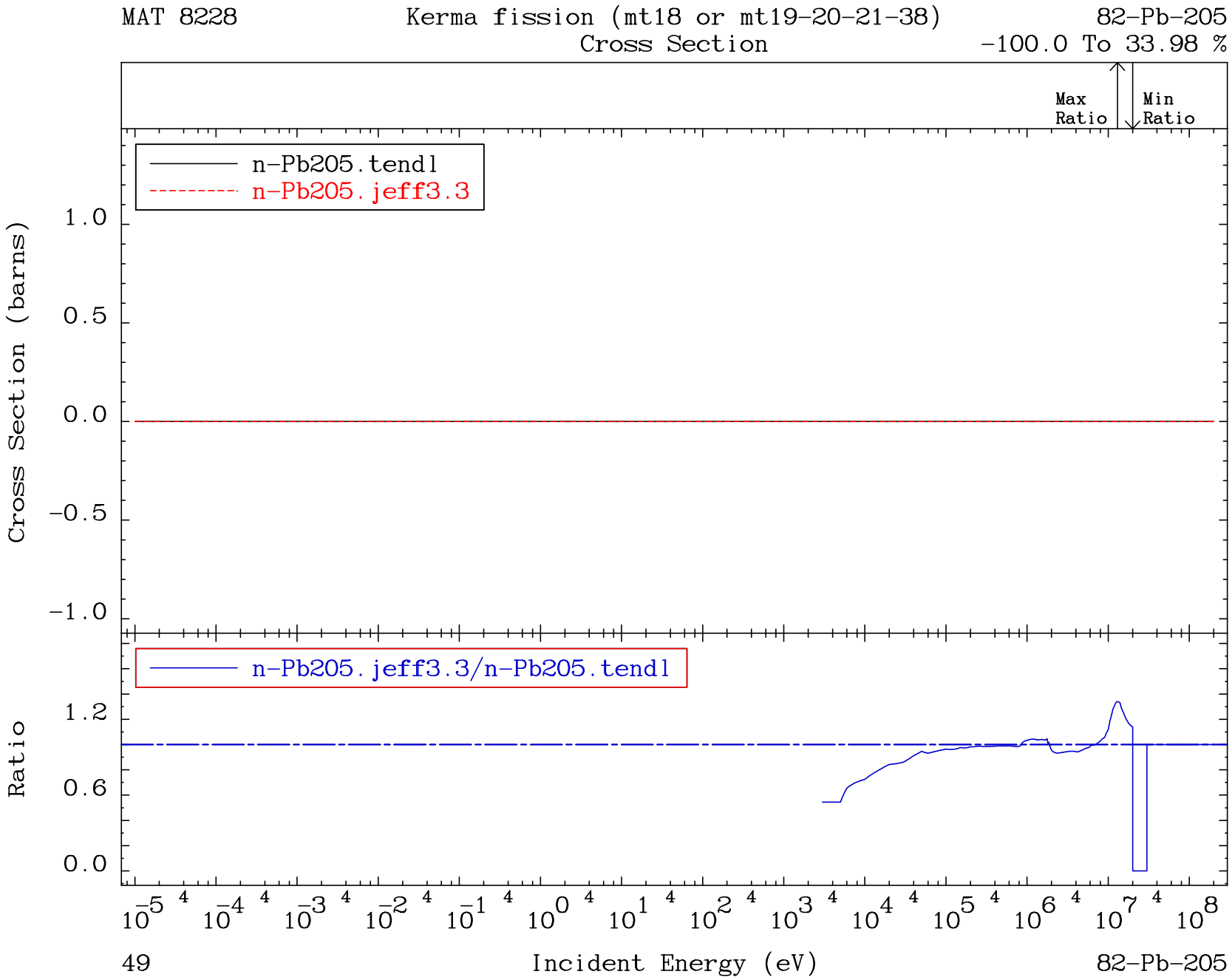

MAT 8228
He-4 Production
Cross Section
82-Pb-205
-56.43 To 9999. %
Max Ratio
Min Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
44
82-Pb-205

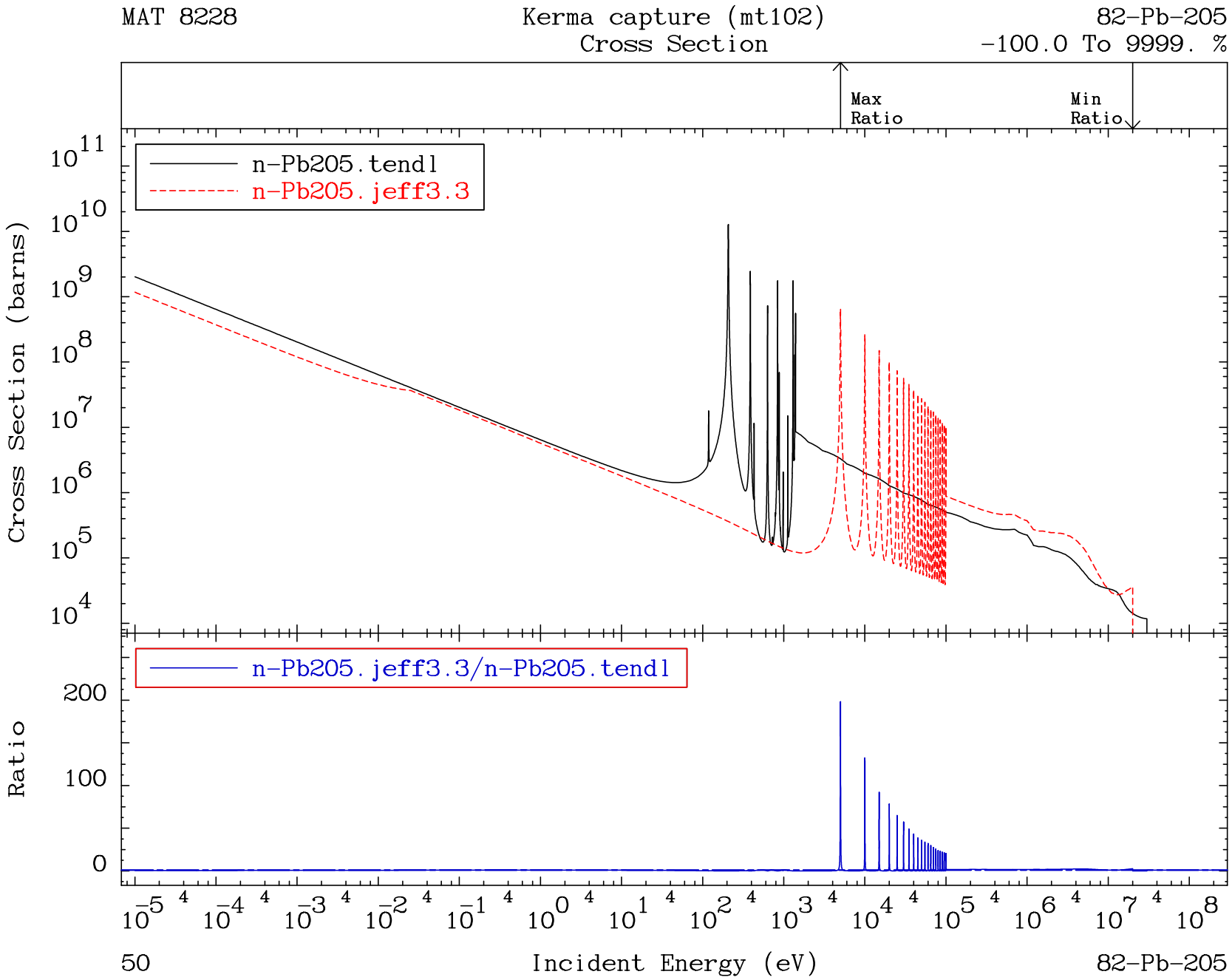

MAT 8228
Kerma total (eV-barns)
Cross Section
82-Pb-205
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
45
82-Pb-205

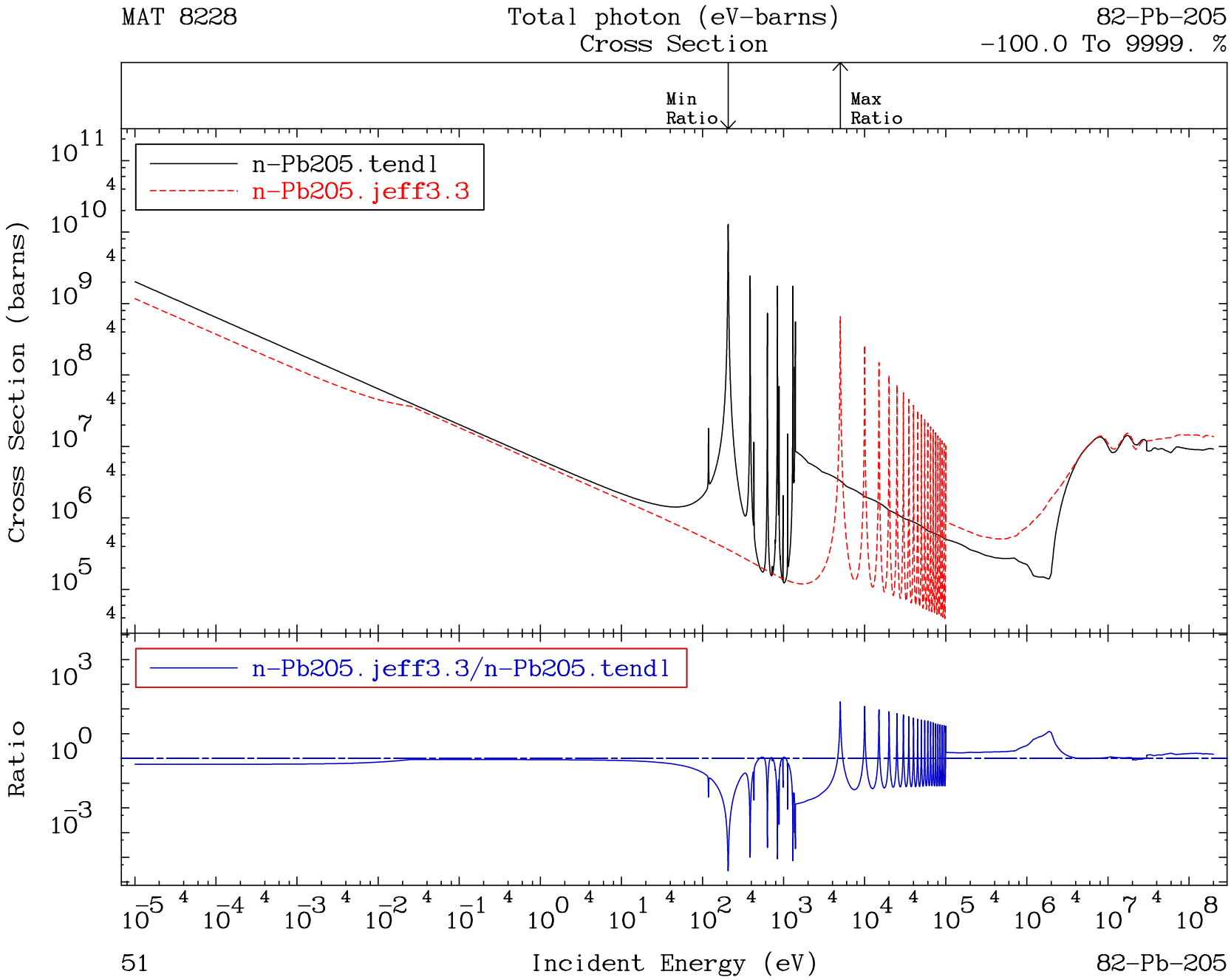

MAT 8228
Kerma elastic
Cross Section
82-Pb-205
-99.95 To 1962. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
46
82-Pb-205

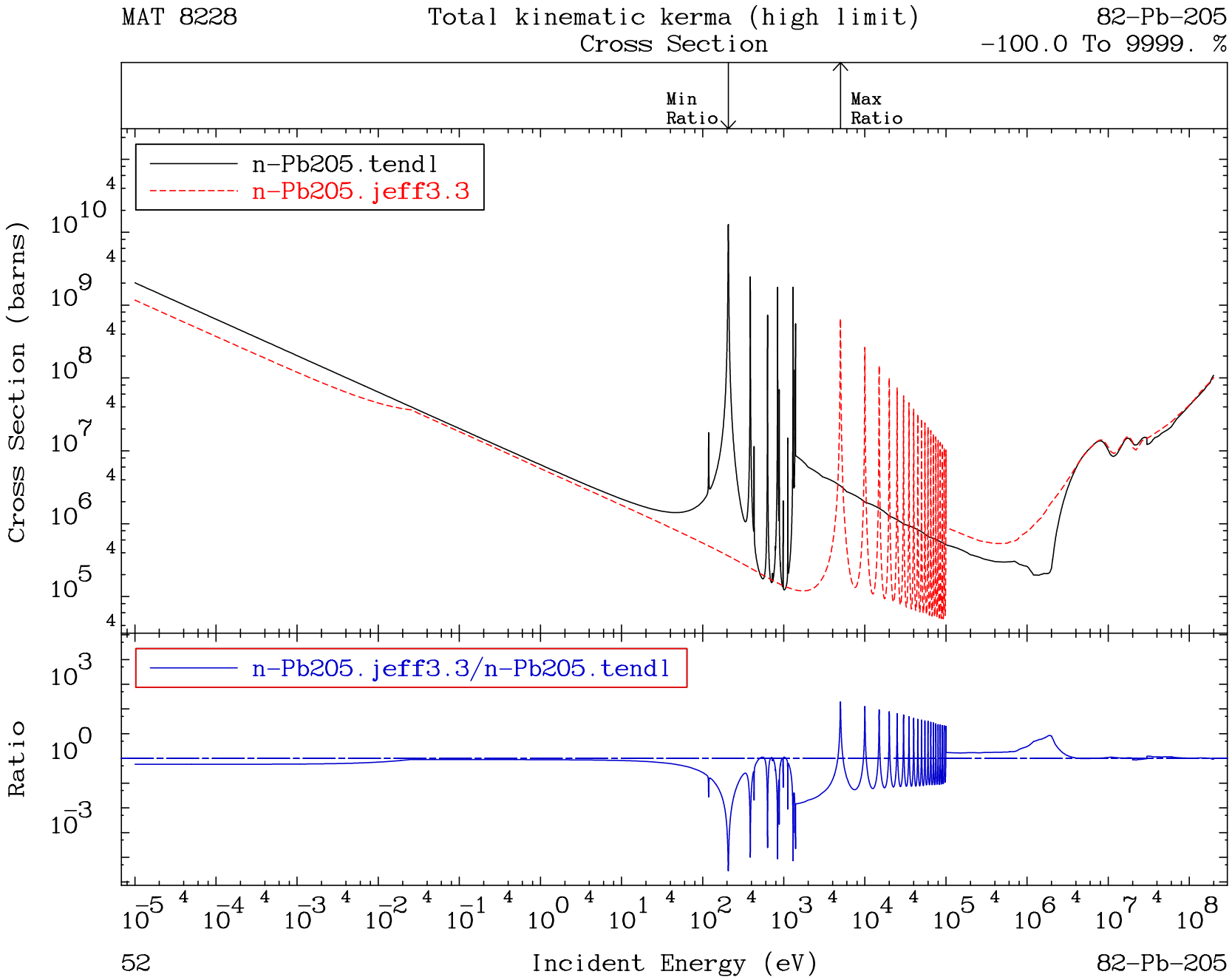

MAT 8228
Kerma non-elastic (all but mt2)
Cross Section
82-Pb-205
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
47
82-Pb-205

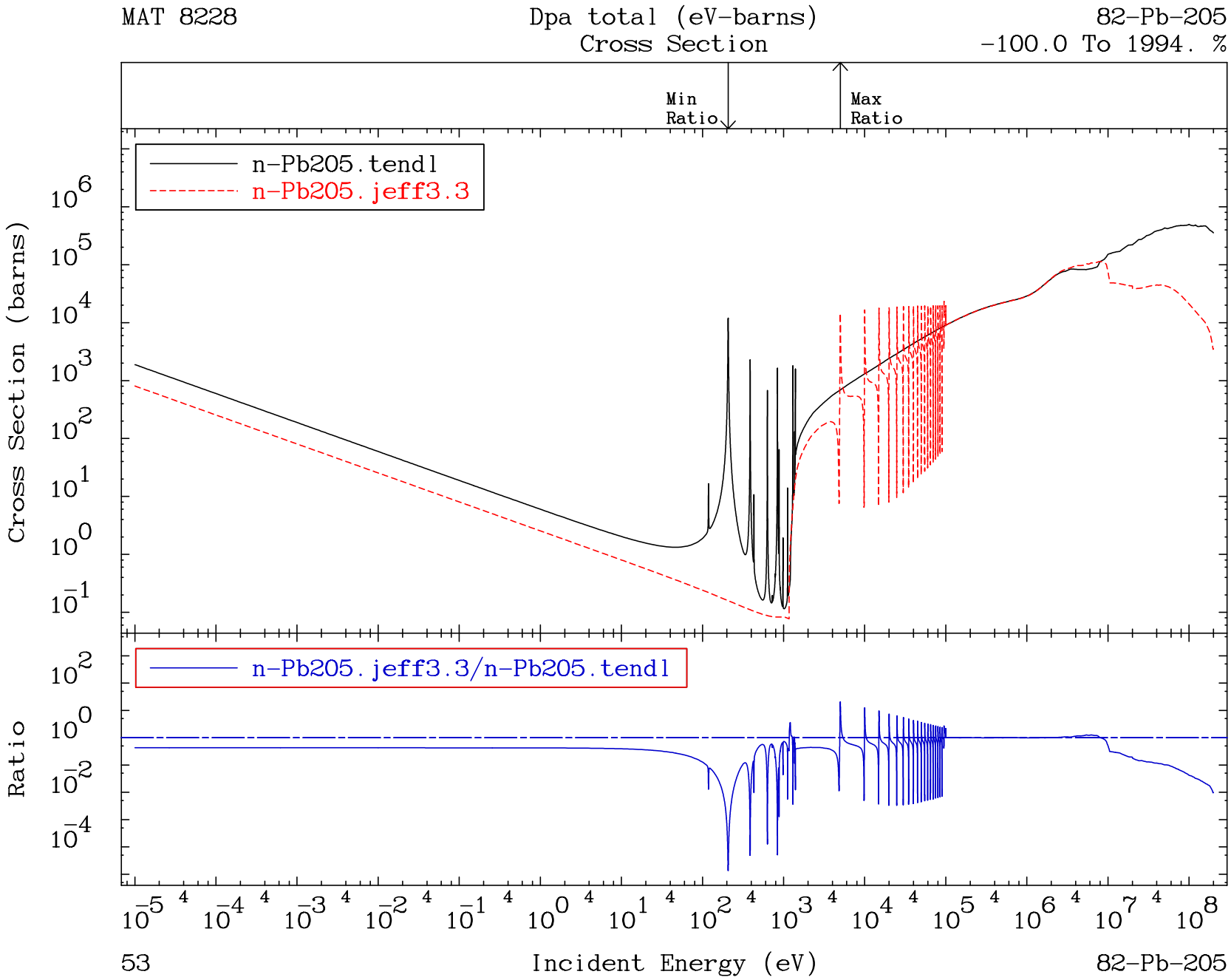

MAT 8228
Kerma inelastic (mt51-91)
Cross Section
82-Pb-205
-100.0 To 33.98 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 3.0000 keV
n-Pb205.jeff3.3 Threshold 2.3456 keV
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
48
82-Pb-205

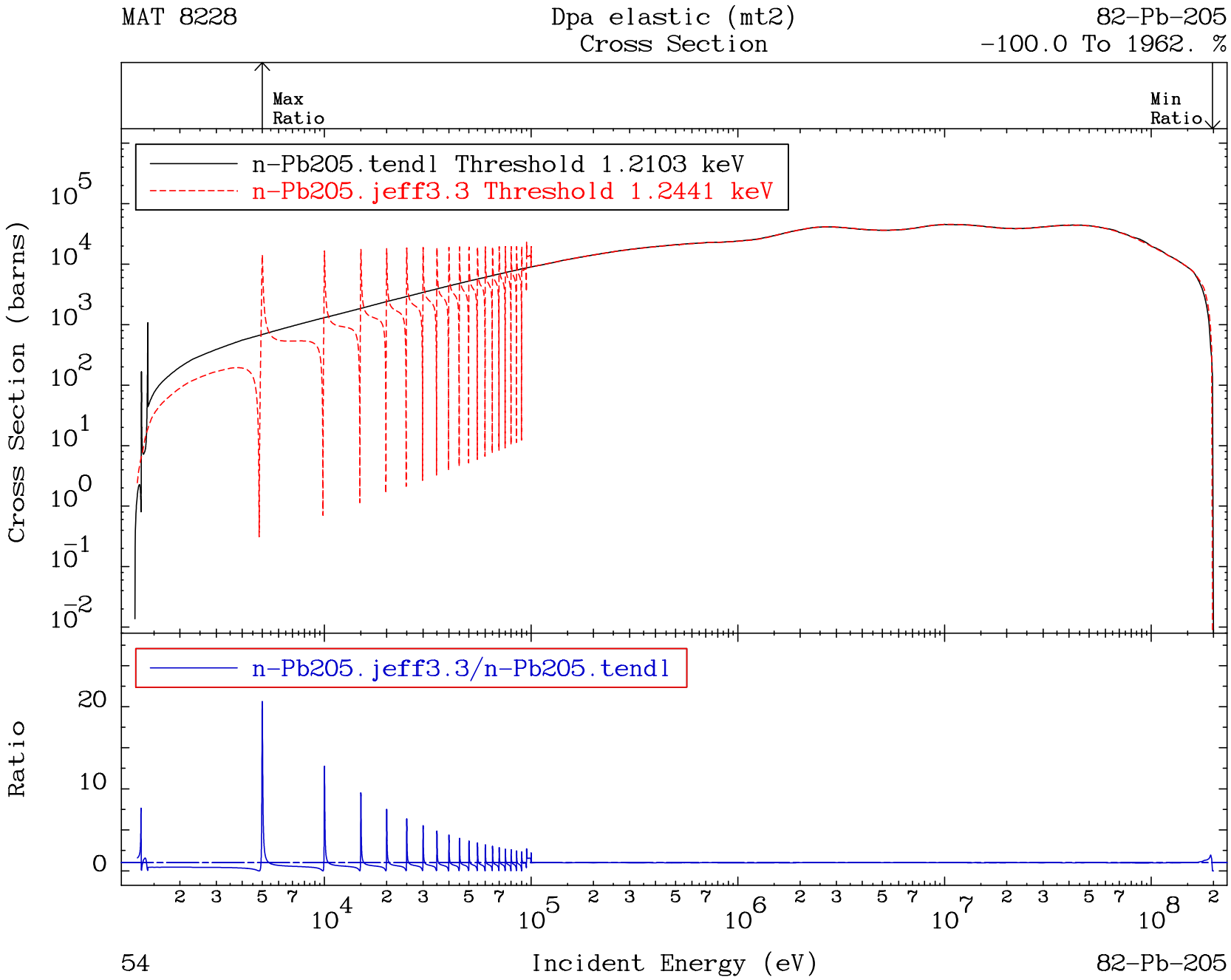

MAT 8228
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
82-Pb-205
-100.0 To 33.98 %
Max Ratio
Min Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
82-Pb-205

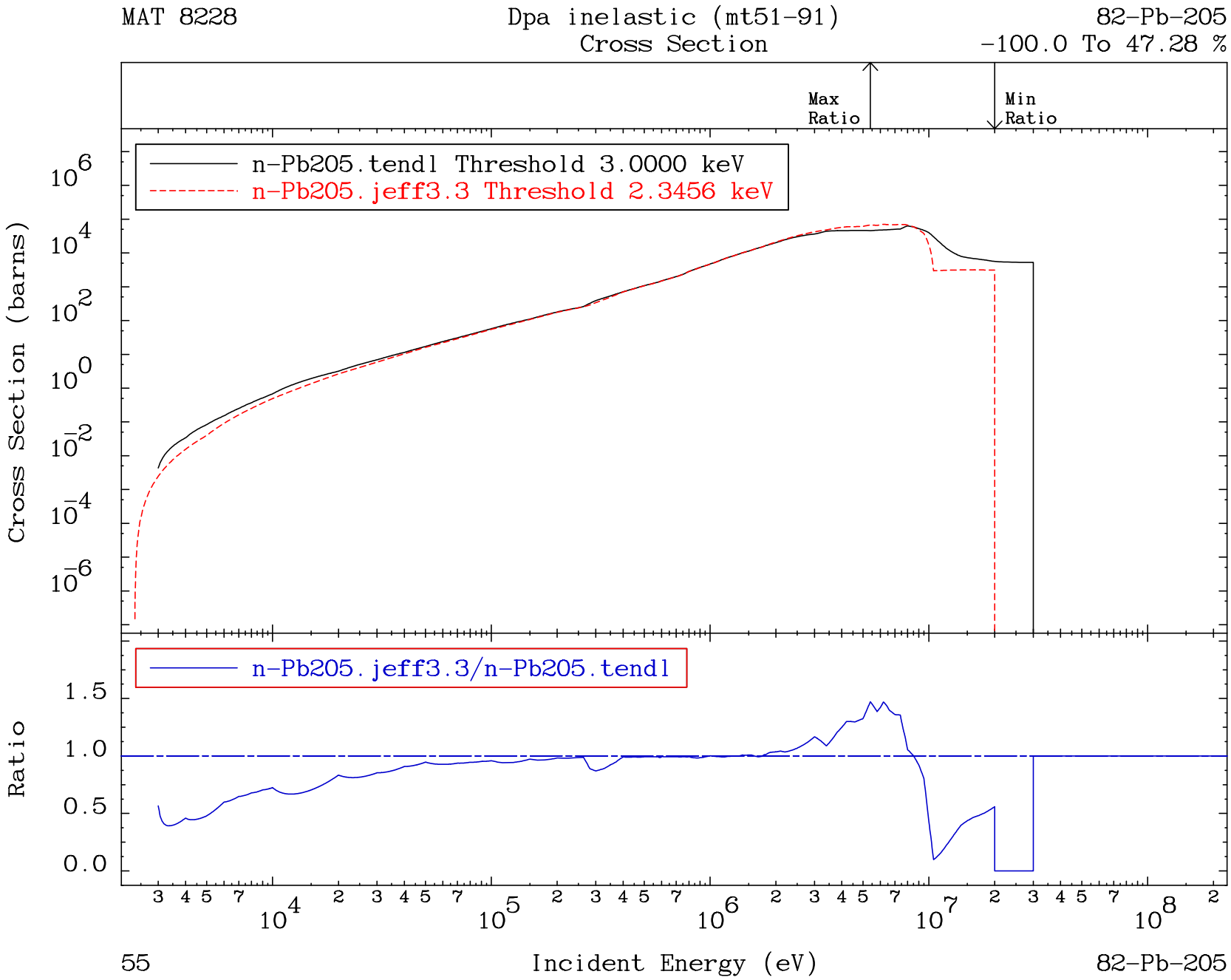

MAT 8228
Kerma capture (mt102)
Cross Section
82-Pb-205
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
50
82-Pb-205

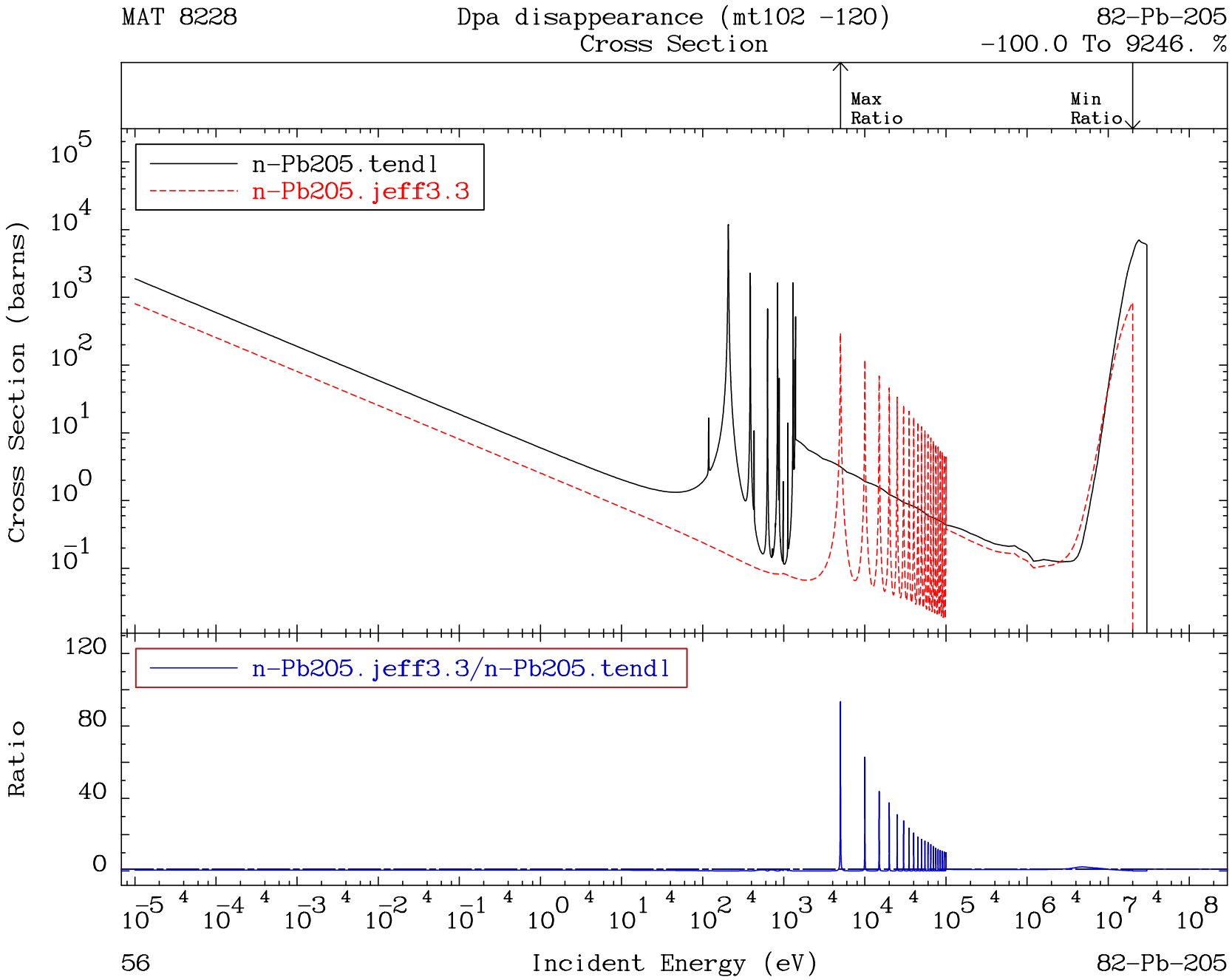

MAT 8228
Total photon (eV-barns)
Cross Section
82-Pb-205
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
51
82-Pb-205

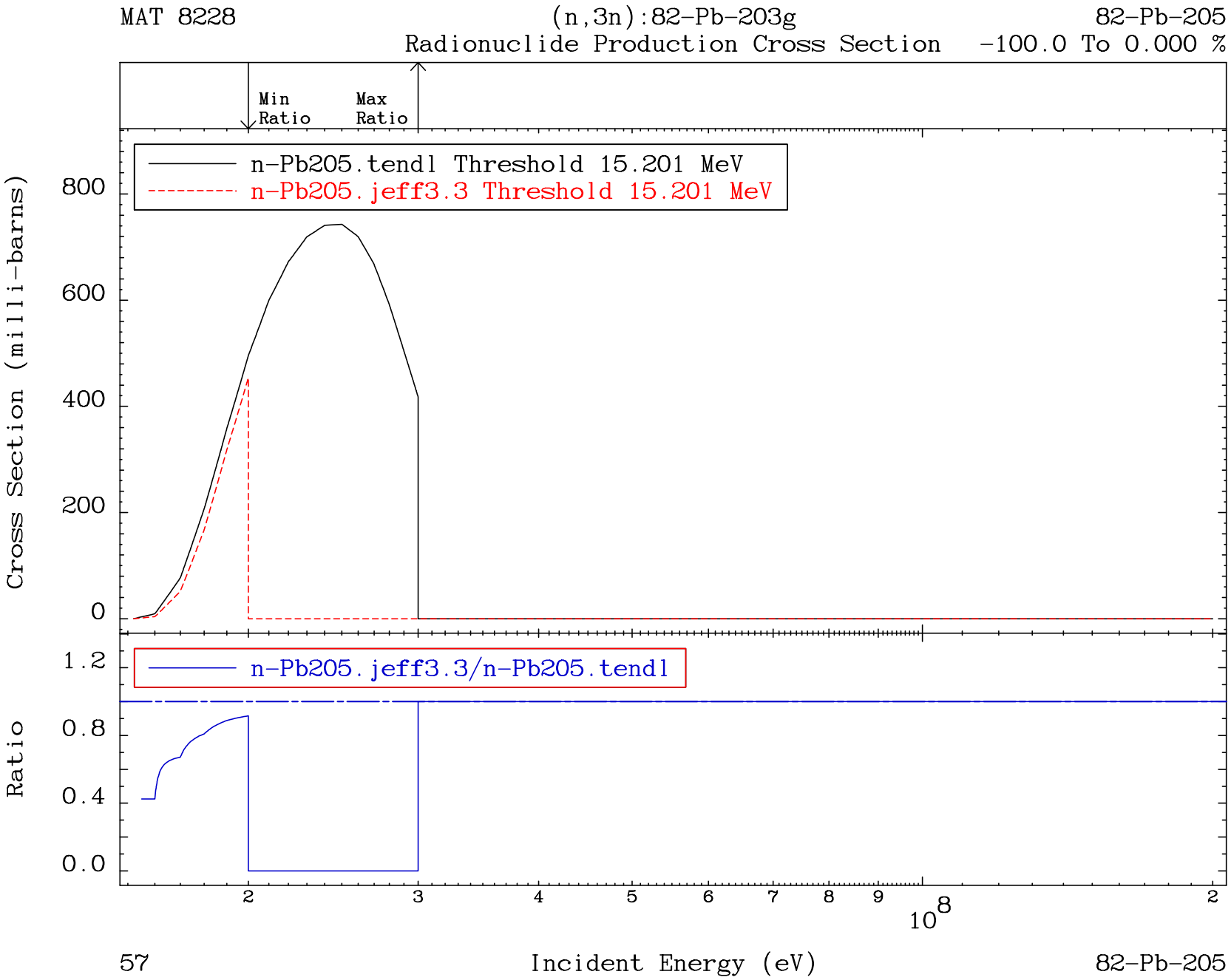

MAT 8228
Total kinematic kerma (high limit)
Cross Section
82-Pb-205
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
52
82-Pb-205

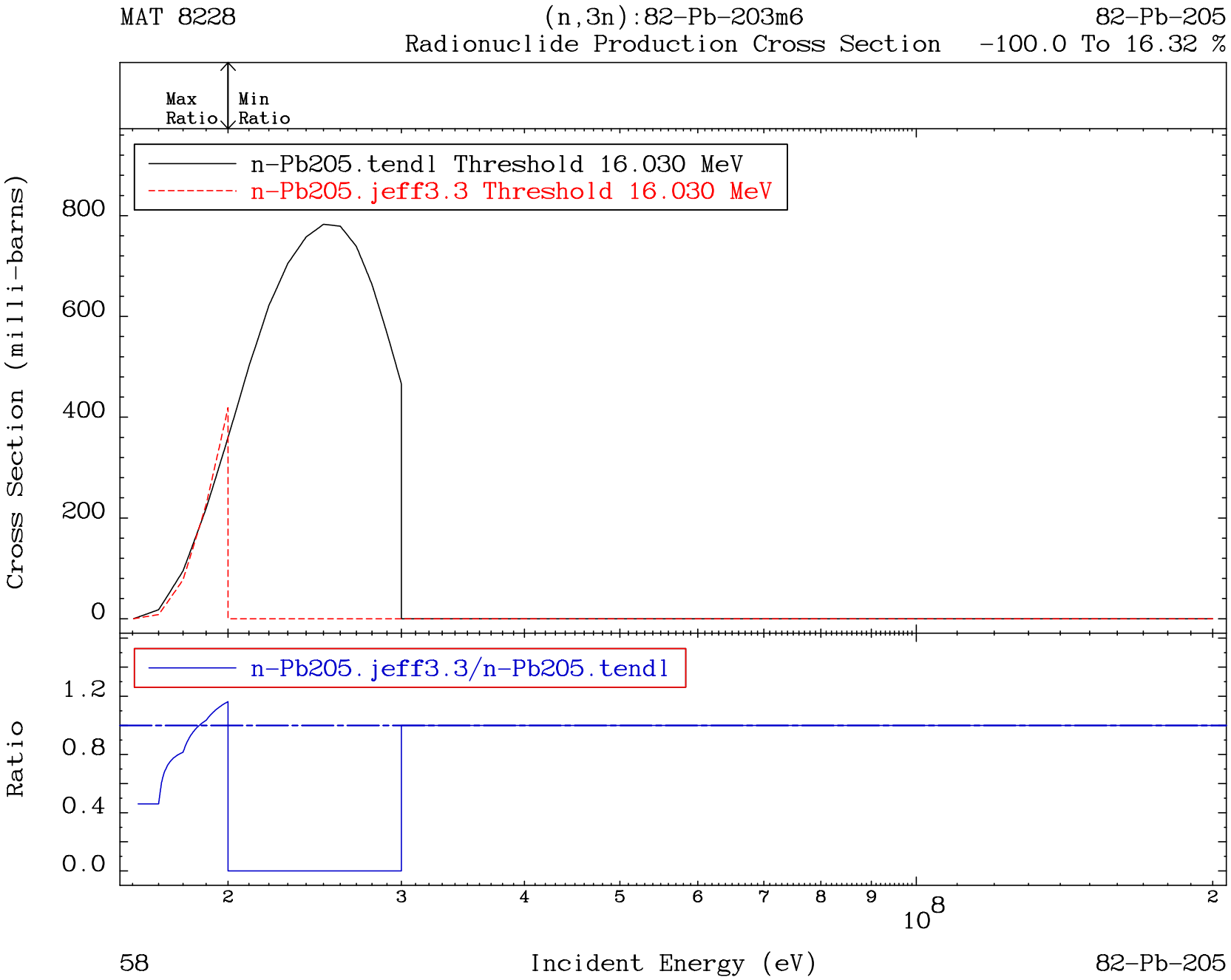

MAT 8228
Dpa total (eV-barns)
Cross Section
82-Pb-205
-100.0 To 1994. %
Min Ratio
Max Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
53
Incident Energy (eV)
82-Pb-205


MAT 8228
Dpa elastic (mt2)
Cross Section
82-Pb-205
-100.0 To 1962. %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 1.2103 keV
n-Pb205.jeff3.3 Threshold 1.2441 keV
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
54
82-Pb-205


MAT 8228
Dpa inelastic (mt51-91)
Cross Section
82-Pb-205
-100.0 To 47.28 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 3.0000 keV
n-Pb205.jeff3.3 Threshold 2.3456 keV
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
55
82-Pb-205


MAT 8228
Dpa disappearance (mt102 -120)
Cross Section
82-Pb-205
-100.0 To 9246. %
Max Ratio
Min Ratio
n-Pb205.tendl
n-Pb205.jeff3.3
Cross Section (barns)
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
Incident Energy (eV)
56
82-Pb-205


MAT 8228
(n,3n):82-Pb-203g
82-Pb-205
Radionuclide Production Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
n-Pb205.tendl Threshold 15.201 MeV
n-Pb205.jeff3.3 Threshold 15.201 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
82-Pb-205


MAT 8228
(n,3n):82-Pb-203m6
82-Pb-205
Radionuclide Production Cross Section -100.0 To 16.32 %
Max Ratio
Min Ratio
n-Pb205.tendl Threshold 16.030 MeV
n-Pb205.jeff3.3 Threshold 16.030 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Pb205.jeff3.3/n-Pb205.tendl
Ratio
1.2
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
82-Pb-205