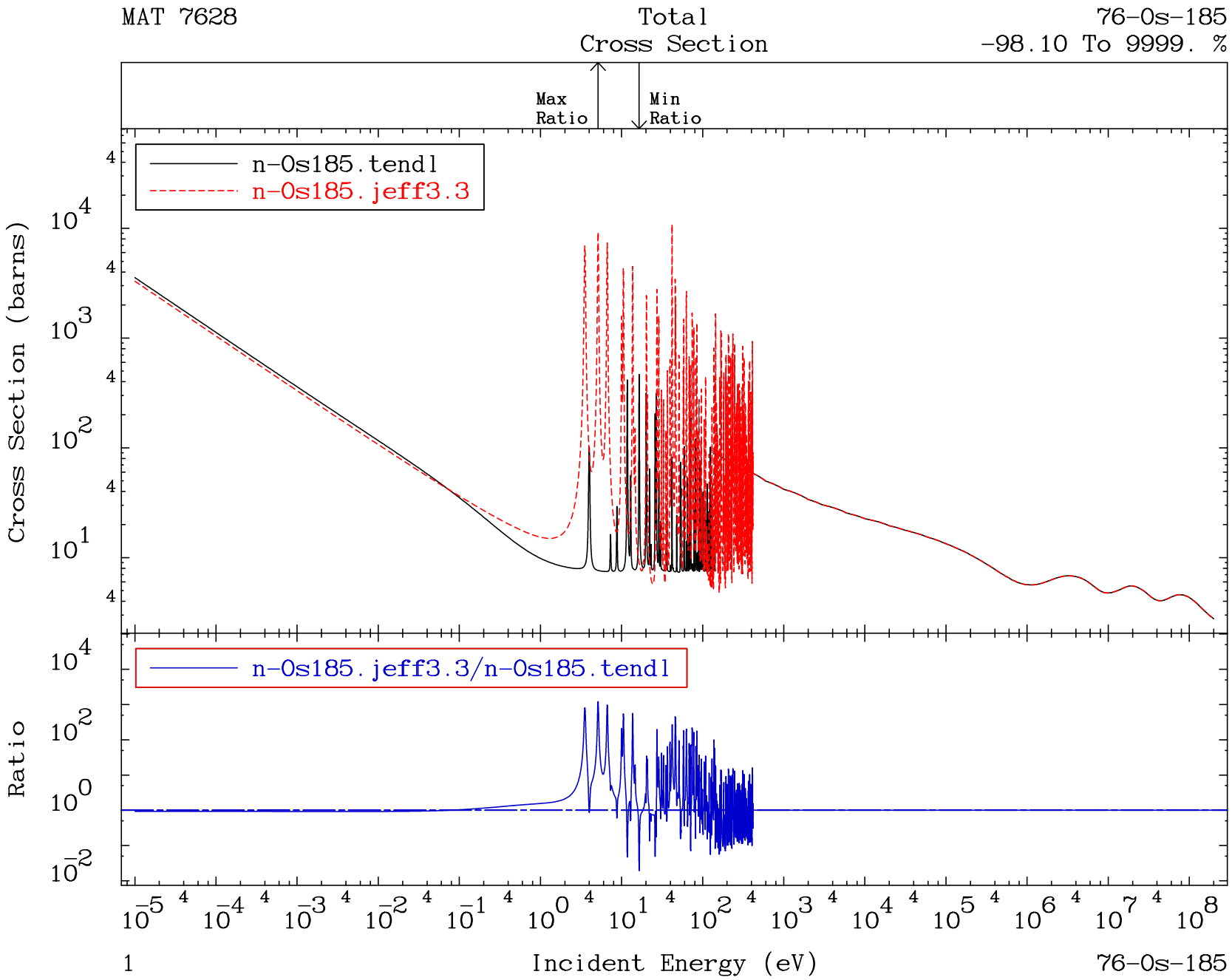
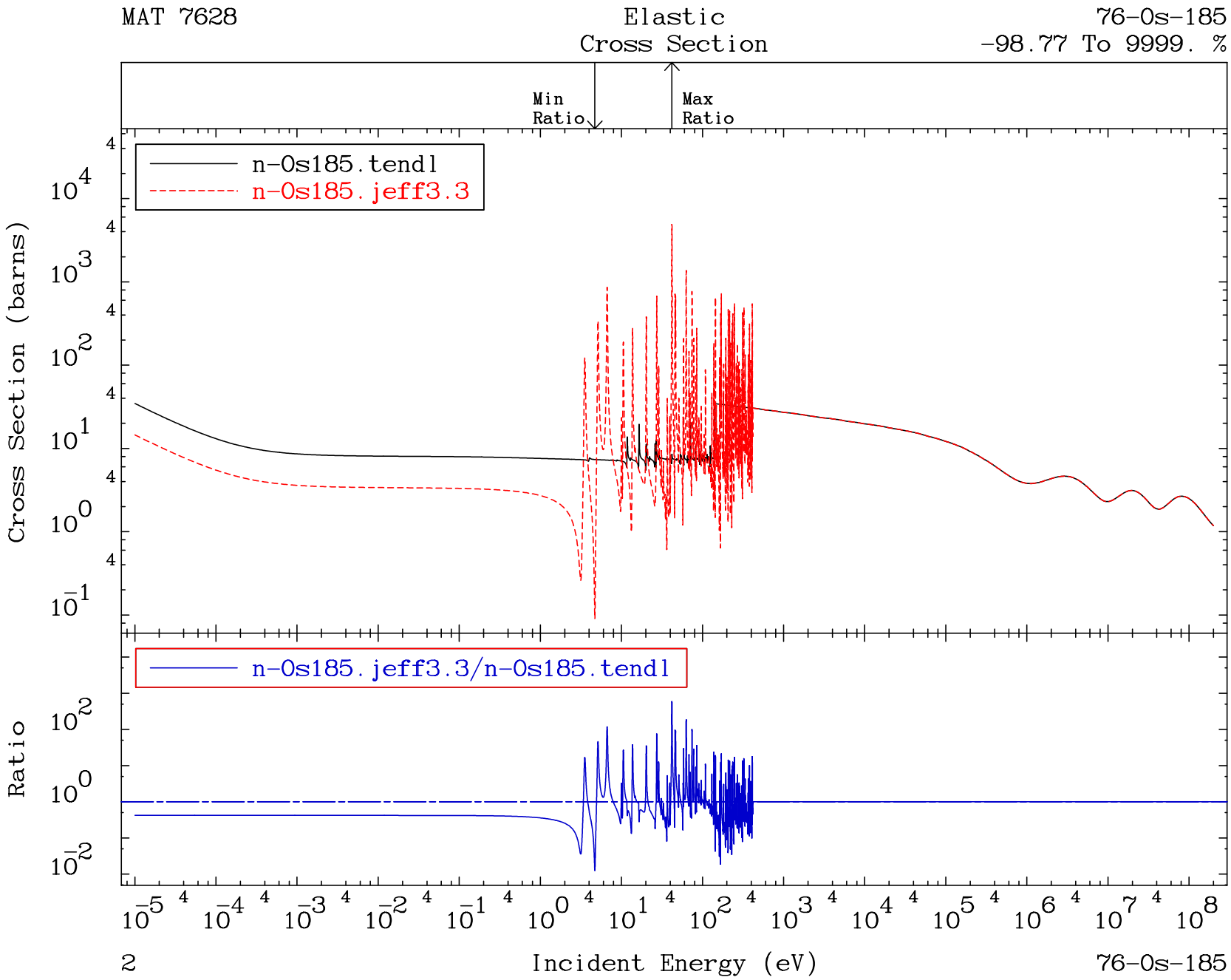
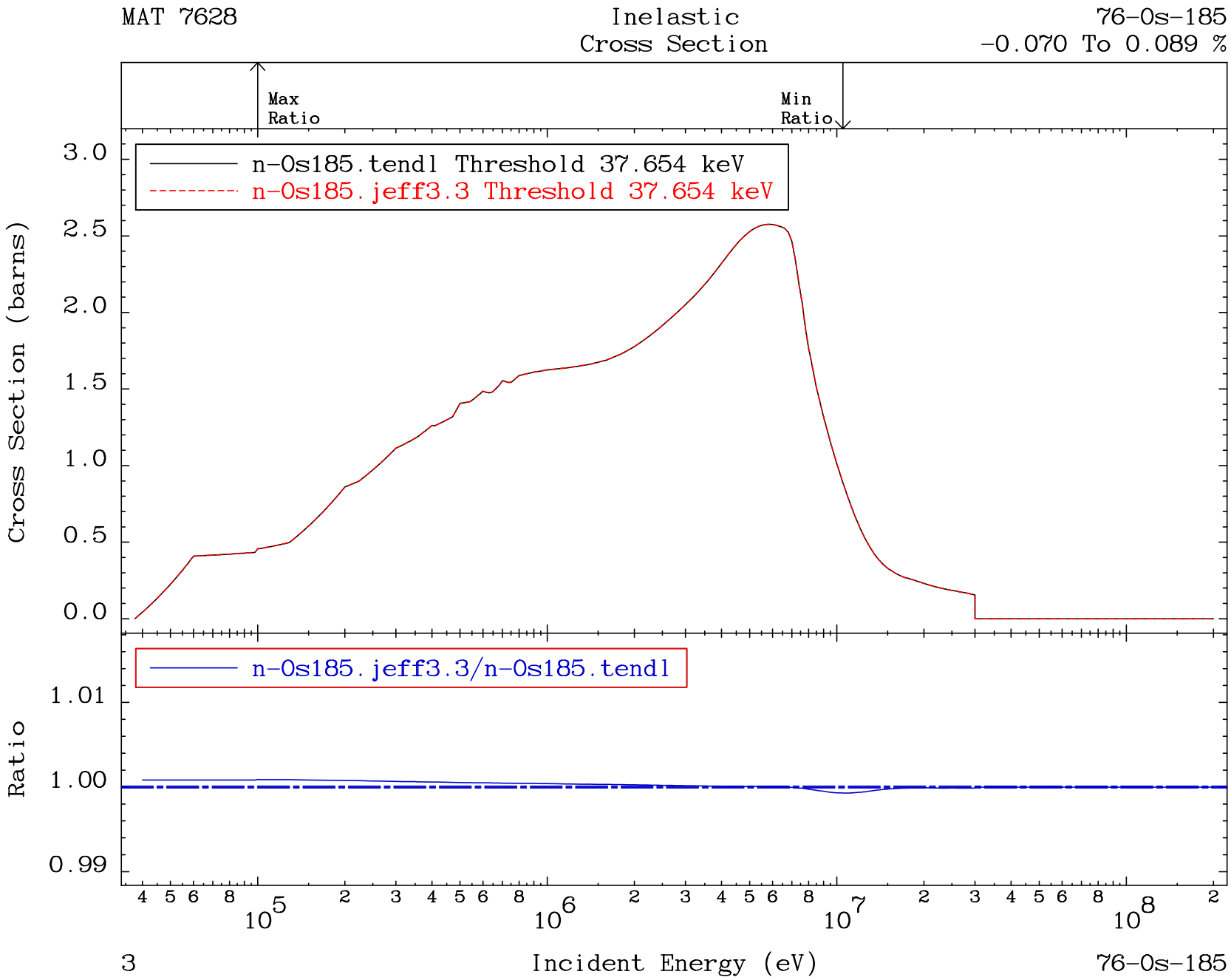
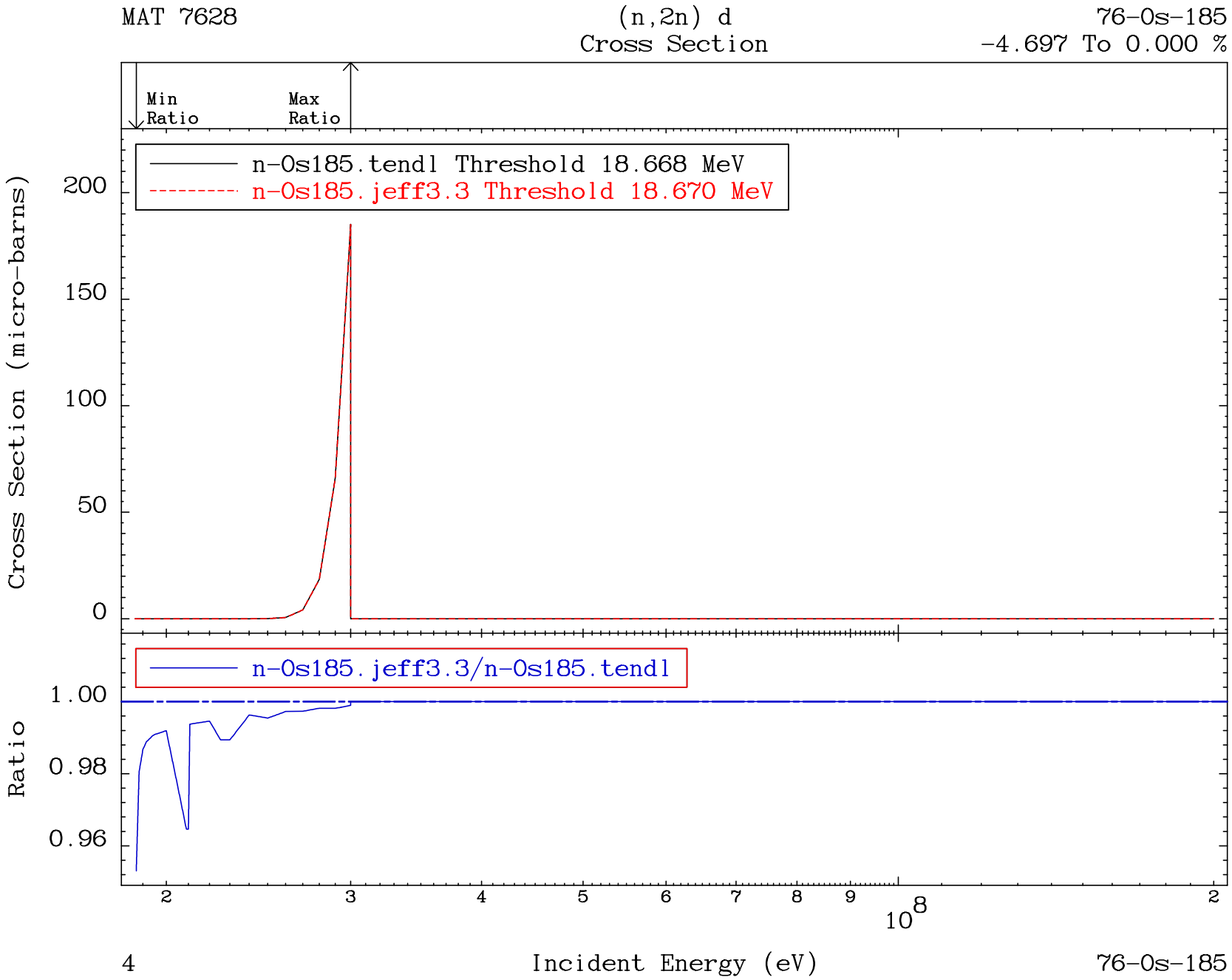
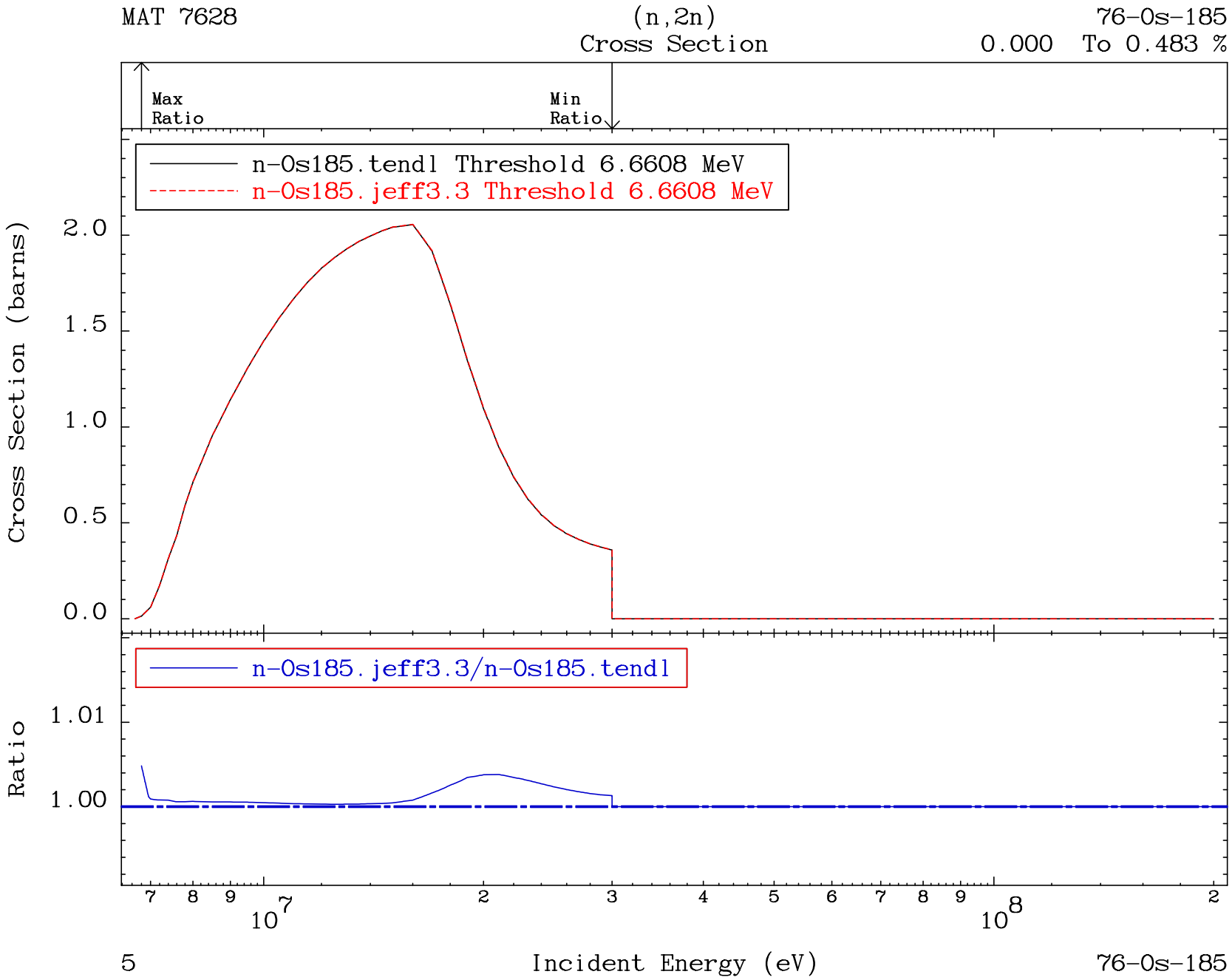
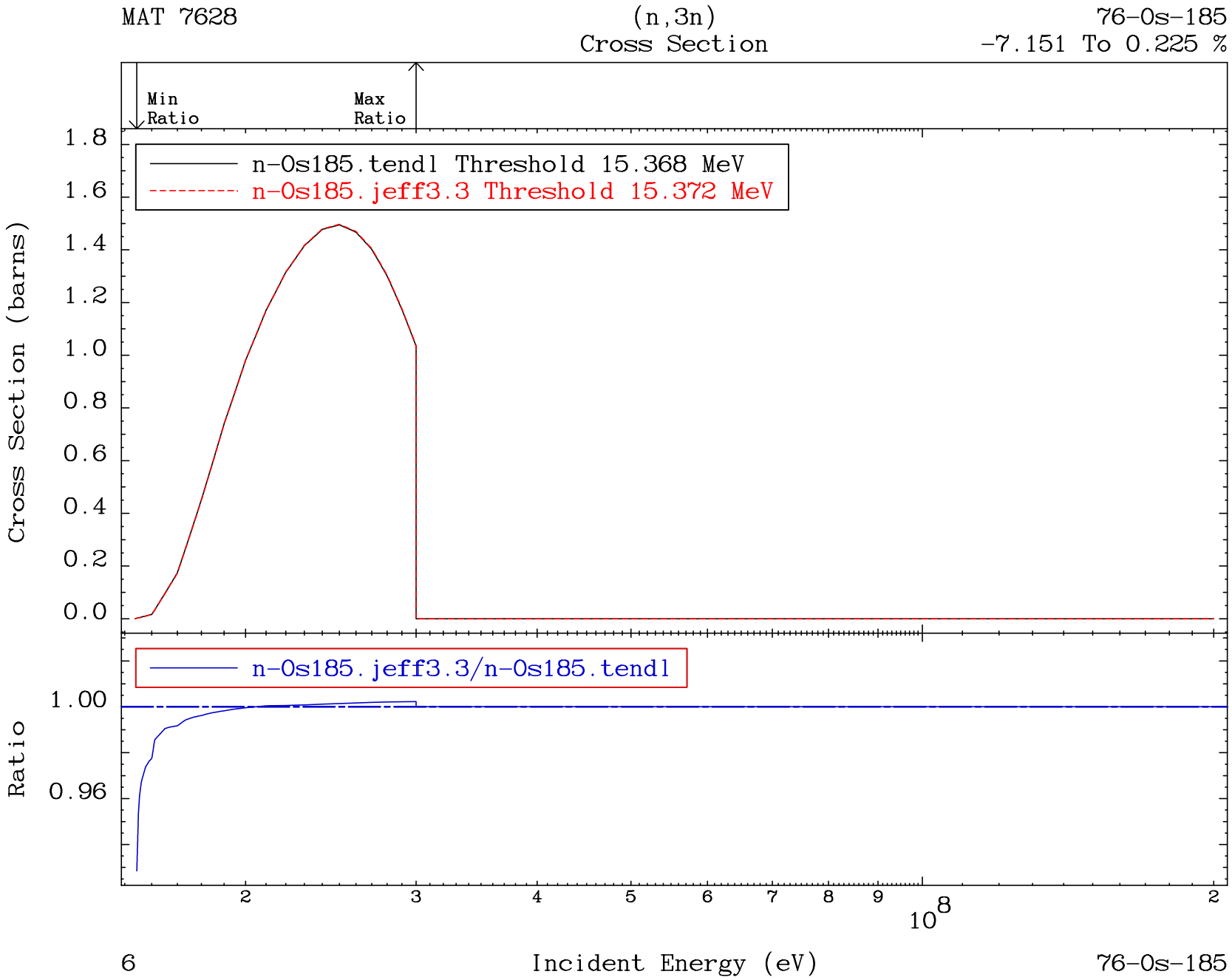

MAT 7628
Total
Cross Section
76-0s-185
-98.10 To 9999. %
Max
Ratio
Min
Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
1
76-0s-185

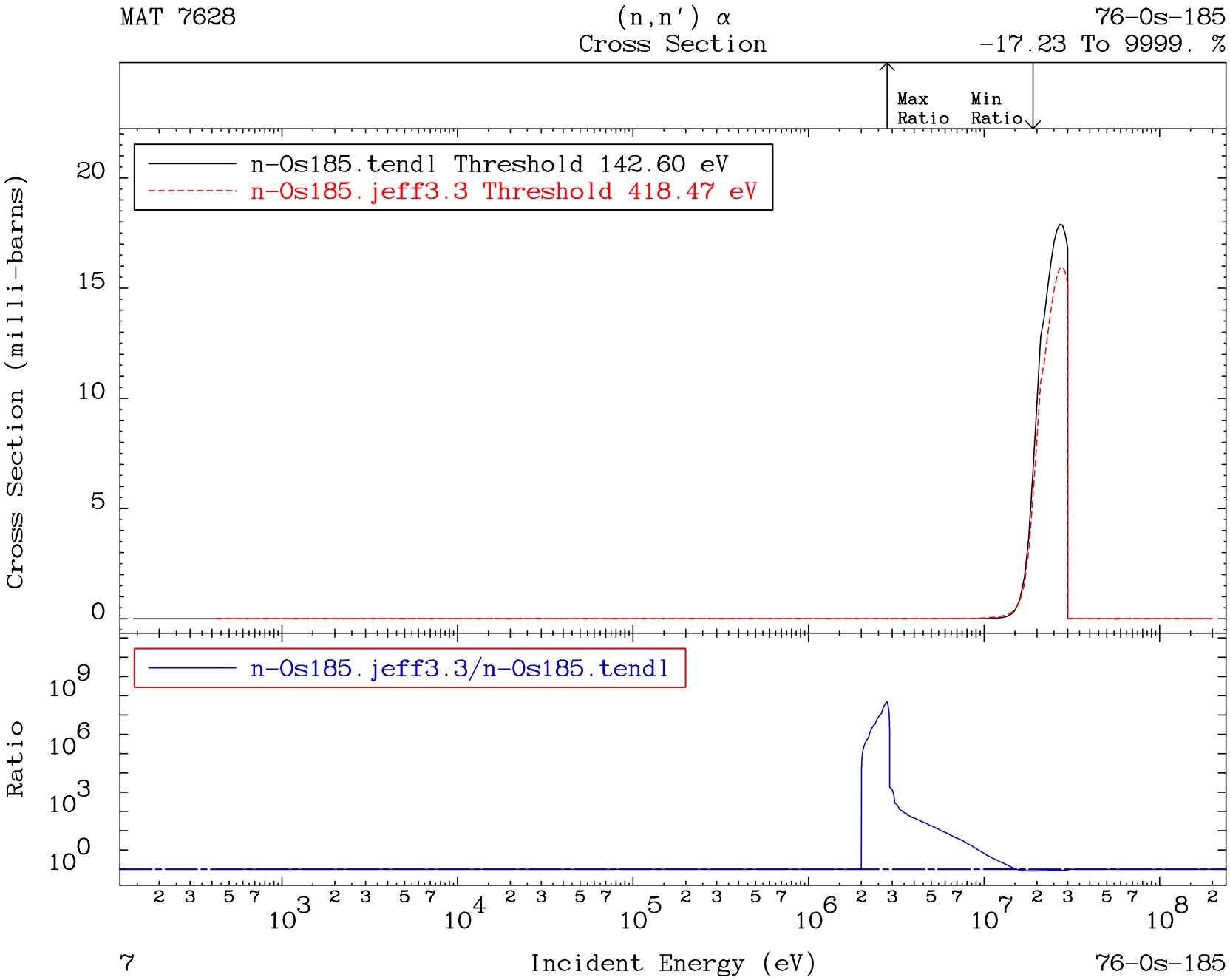

MAT 7628
Elastic
Cross Section
76-0s-185
-98.77 To 9999. %
Min
Ratio
Max
Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
2
76-0s-185

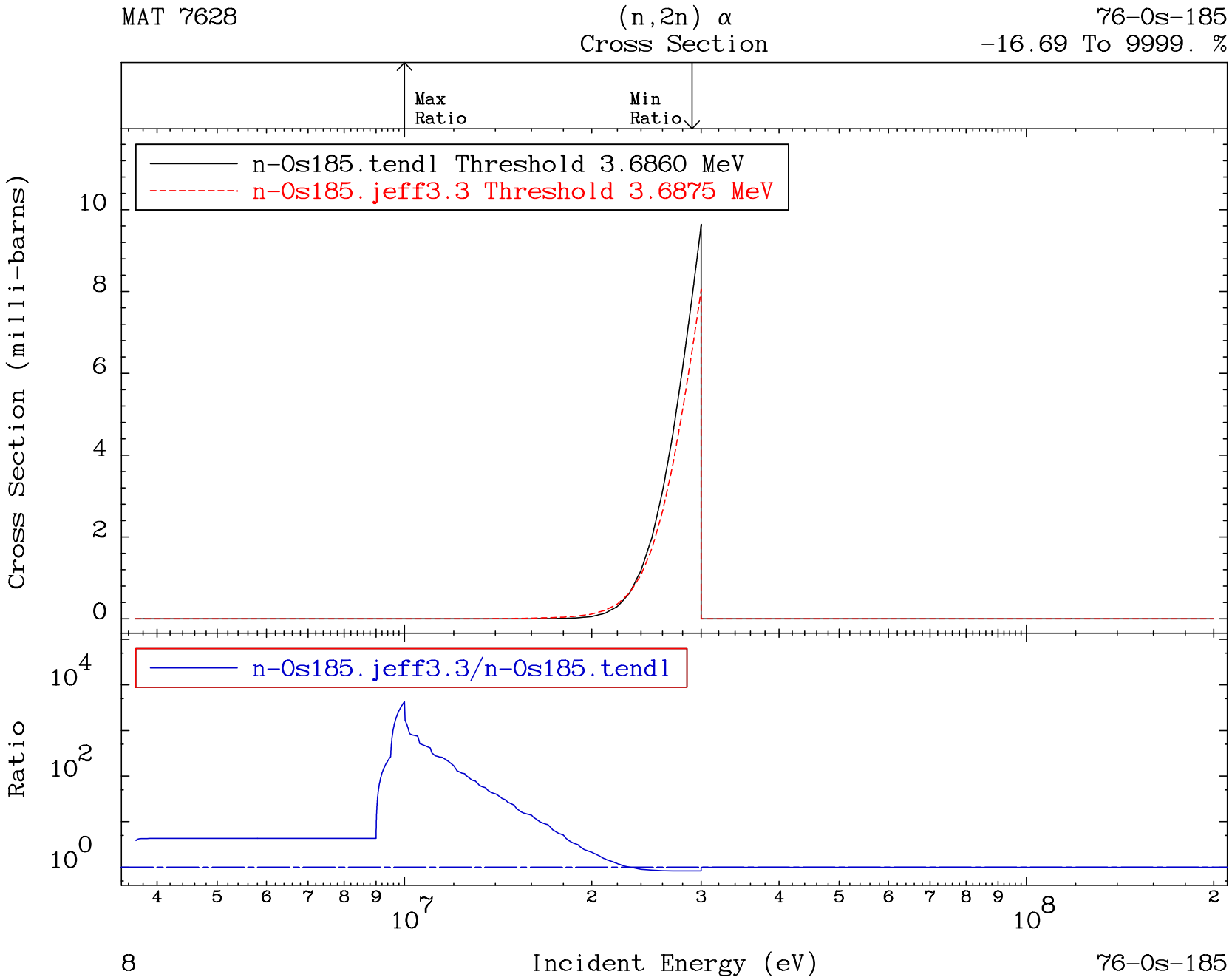

MAT 7628
Inelastic
Cross Section
76-0s-185
-0.070 To 0.089 %
Max
Ratio
Min
Ratio
n-0s185.tendl Threshold 37.654 keV
n-0s185.jeff3.3 Threshold 37.654 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
76-0s-185

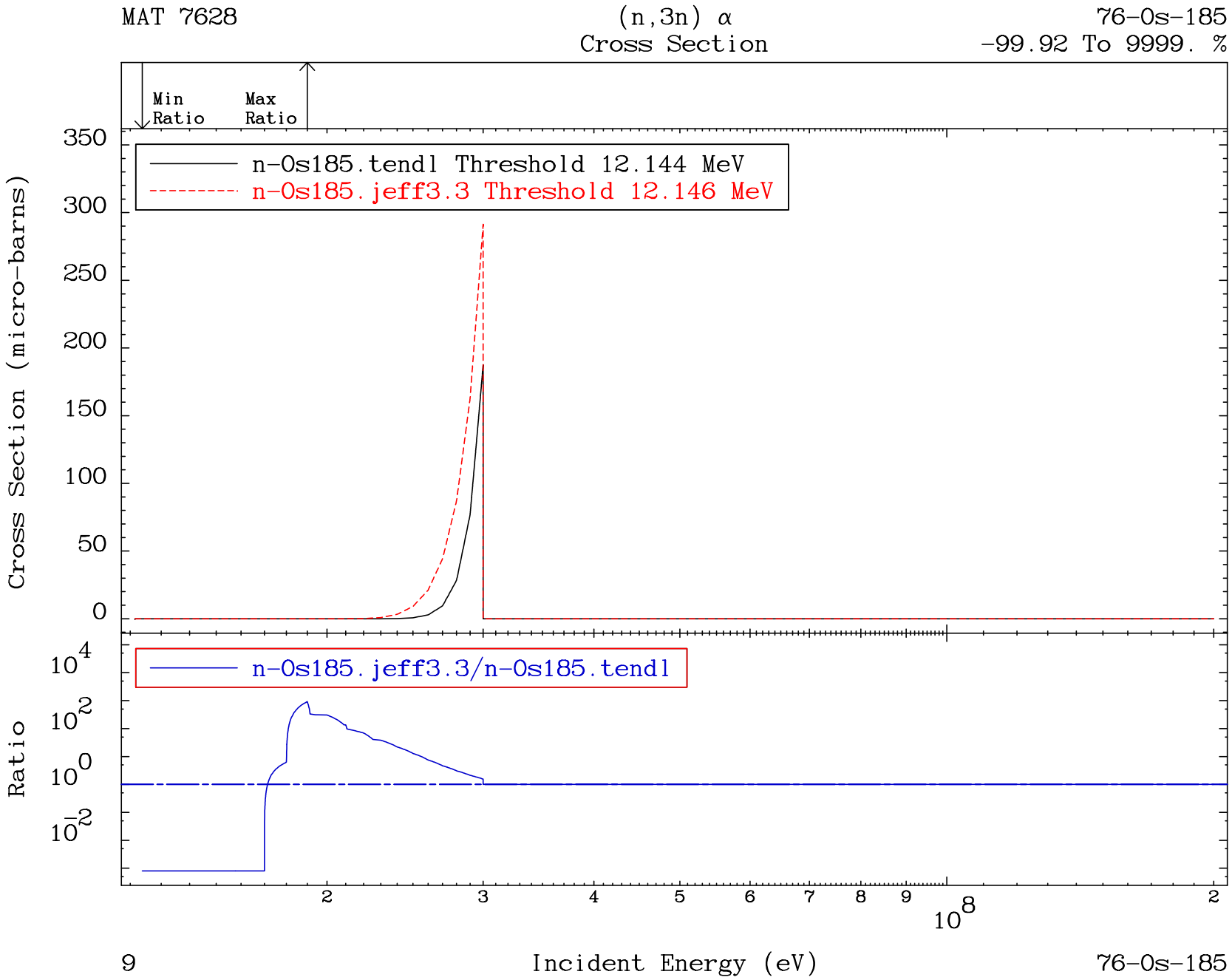

MAT 7628
(n,2n) d
Cross Section
76-0s-185
-4.697 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 18.668 MeV
n-0s185.jeff3.3 Threshold 18.670 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
76-0s-185

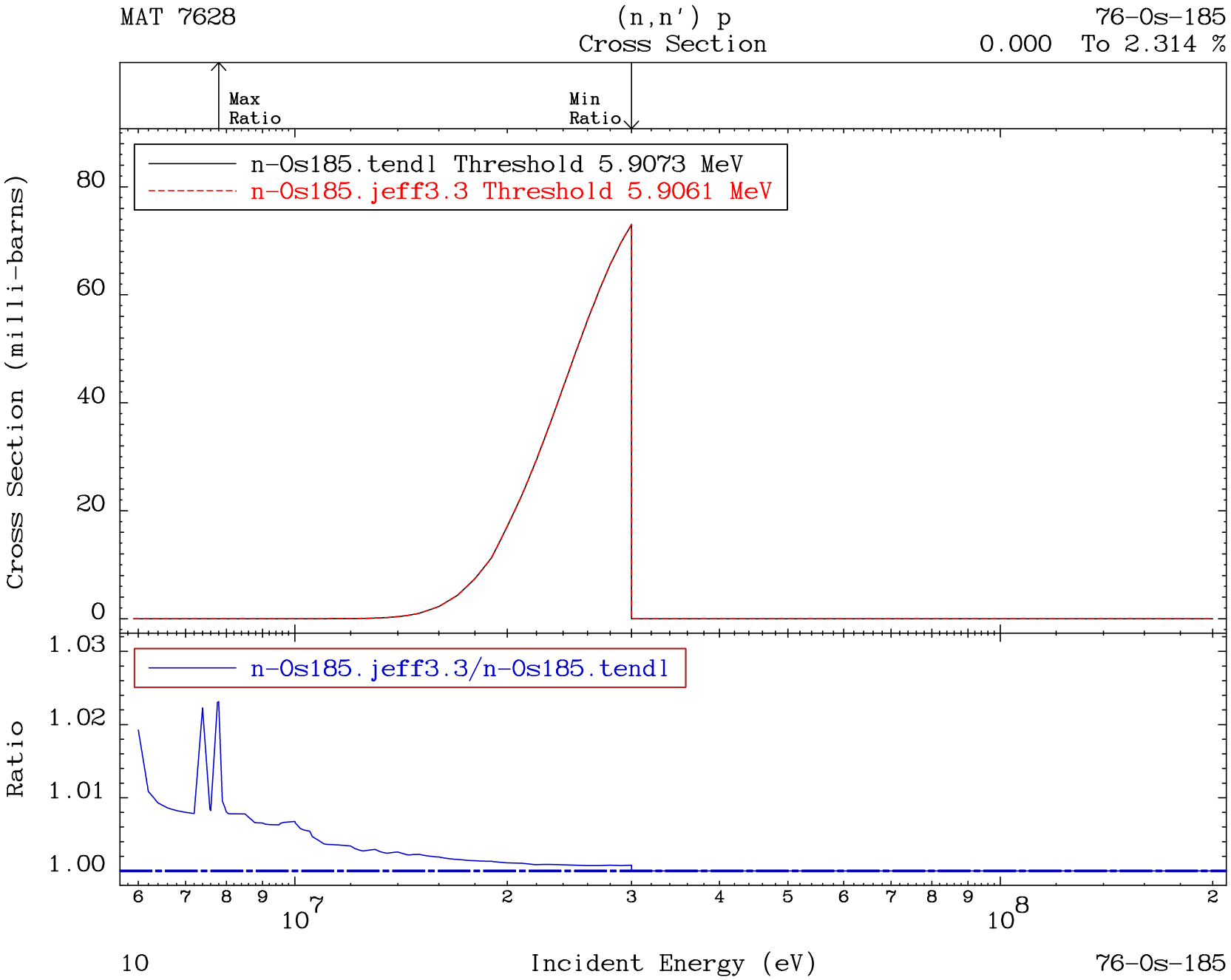

MAT 7628
(n,2n)
Cross Section
76-0s-185
0.000 To 0.483 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 6.6608 MeV
n-0s185.jeff3.3 Threshold 6.6608 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
76-0s-185

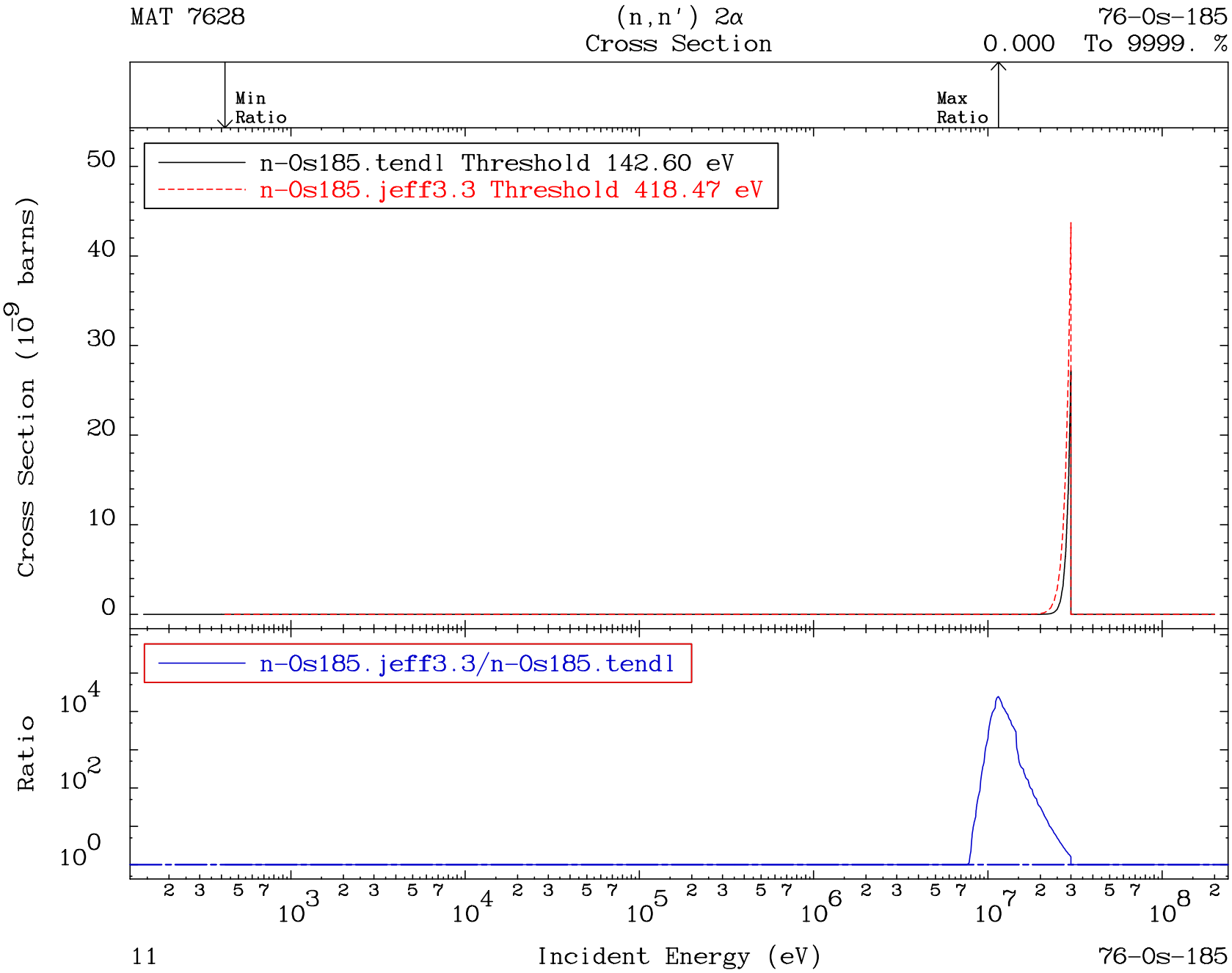

MAT 7628
(n,3n)
Cross Section
76-0s-185
-7.151 To 0.225 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 15.368 MeV
n-0s185.jeff3.3 Threshold 15.372 MeV
Cross Section (barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.96
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
76-0s-185

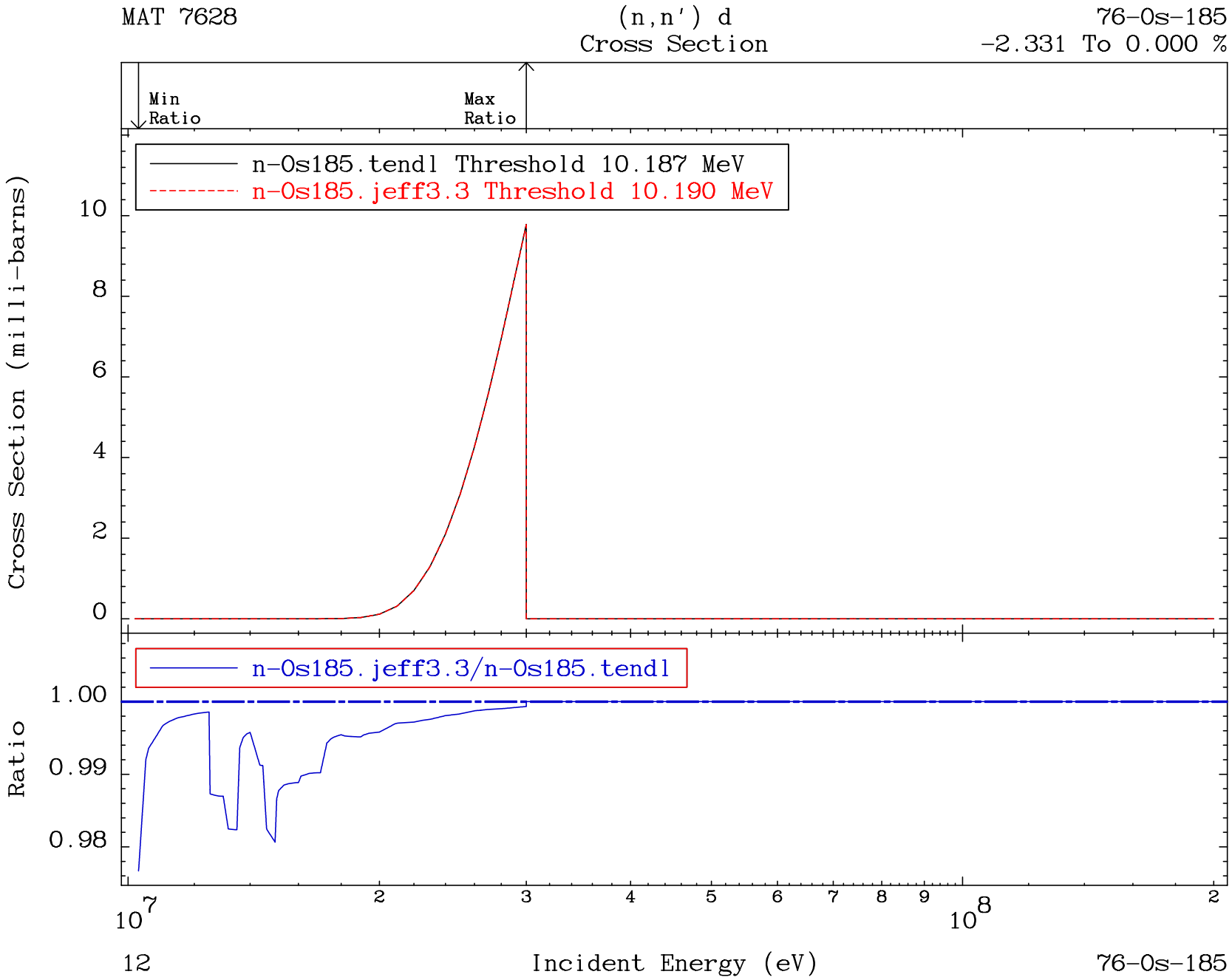

MAT 7628
(n,n') α
Cross Section
76-0s-185
-17.23 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 142.60 eV
n-0s185.jeff3.3 Threshold 418.47 eV
Cross Section (milli-barns)
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^9
10^6
10^3
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
7
Incident Energy (eV)
76-0s-185

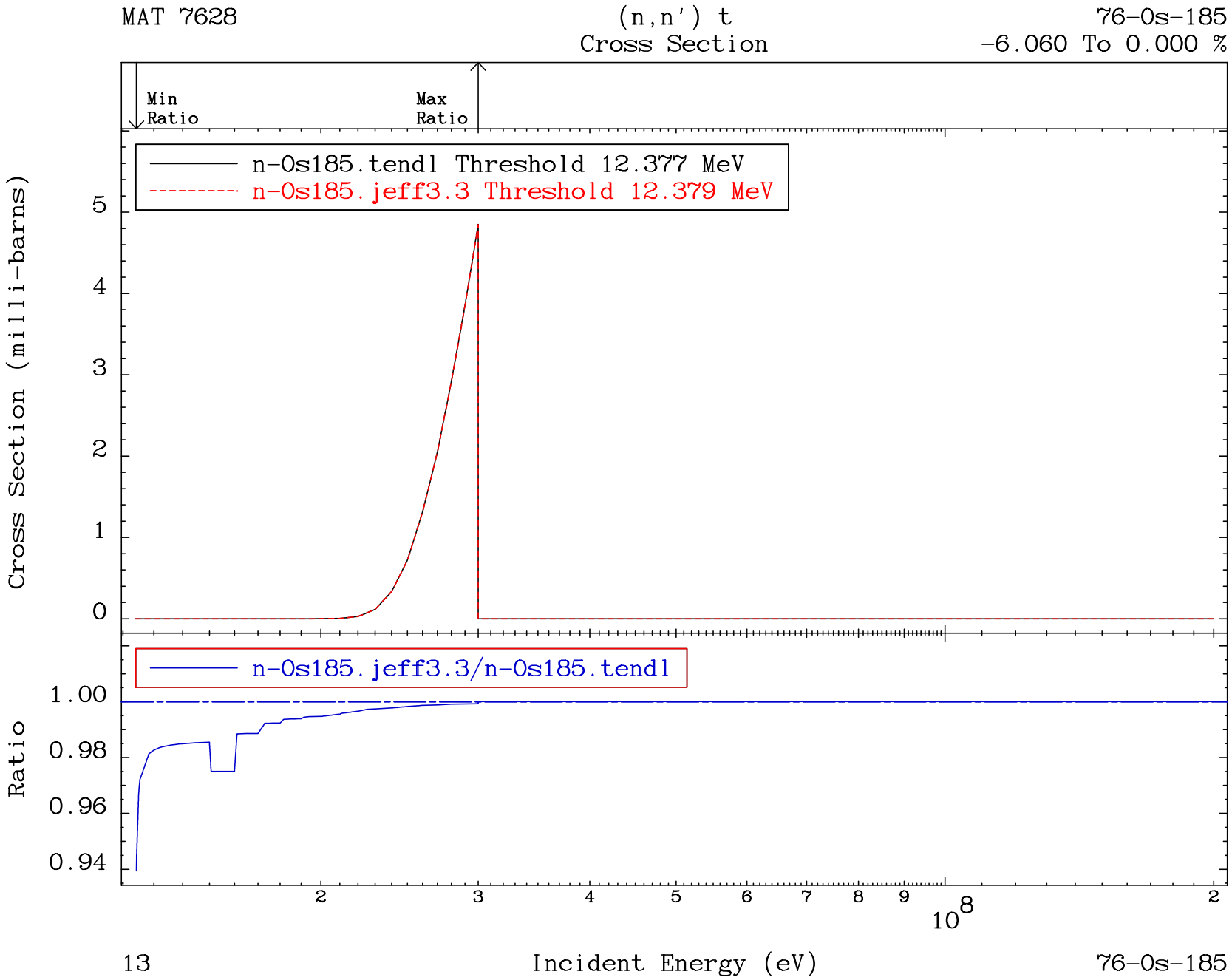

MAT 7628
(n,2n) α
Cross Section
76-0s-185
-16.69 To 9999. %
Max
Ratio
Min
Ratio
n-0s185.tendl Threshold 3.6860 MeV
n-0s185.jeff3.3 Threshold 3.6875 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
76-0s-185

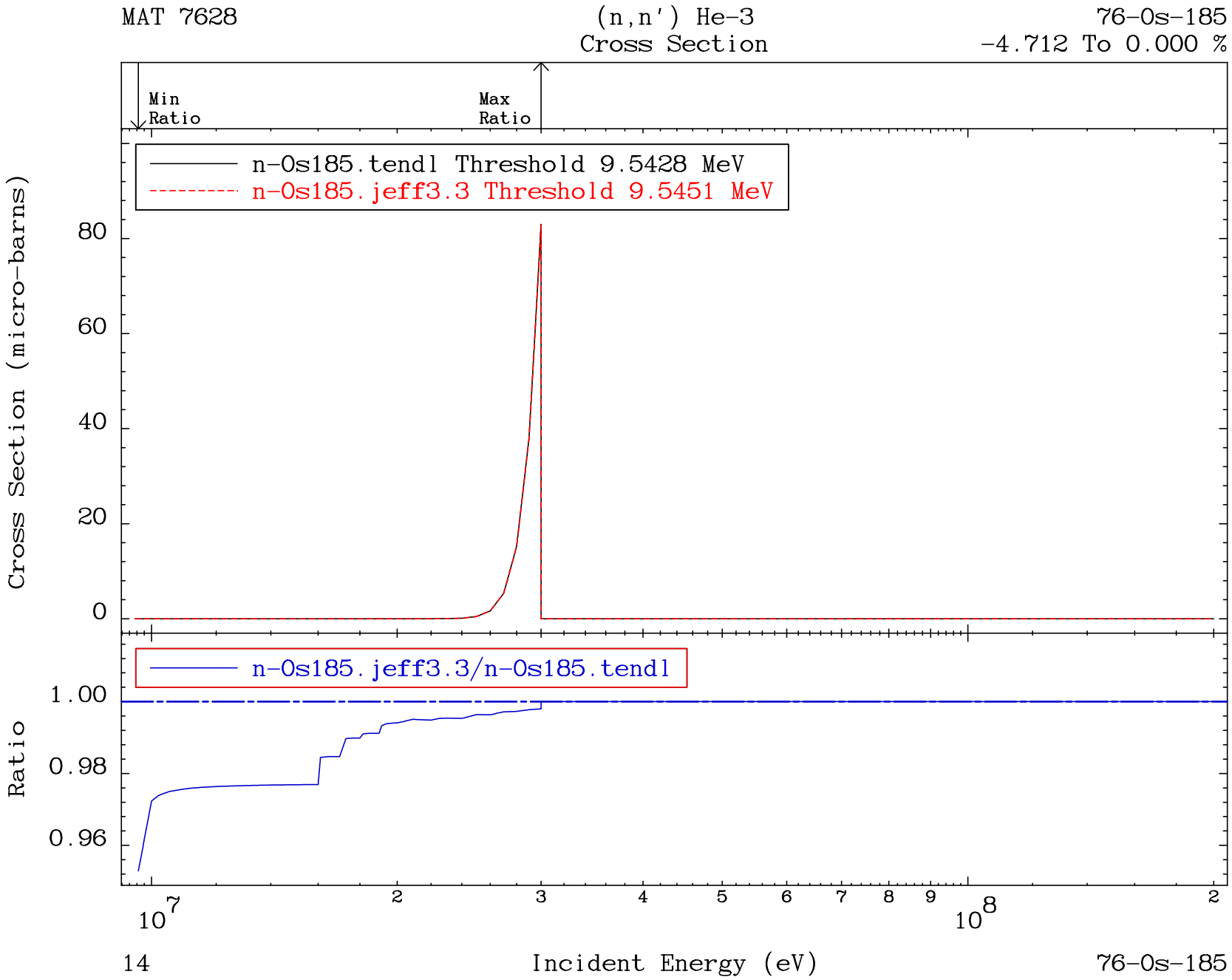

MAT 7628
(n,3n) α
Cross Section
76-0s-185
-99.92 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 12.144 MeV
n-0s185.jeff3.3 Threshold 12.146 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
76-0s-185

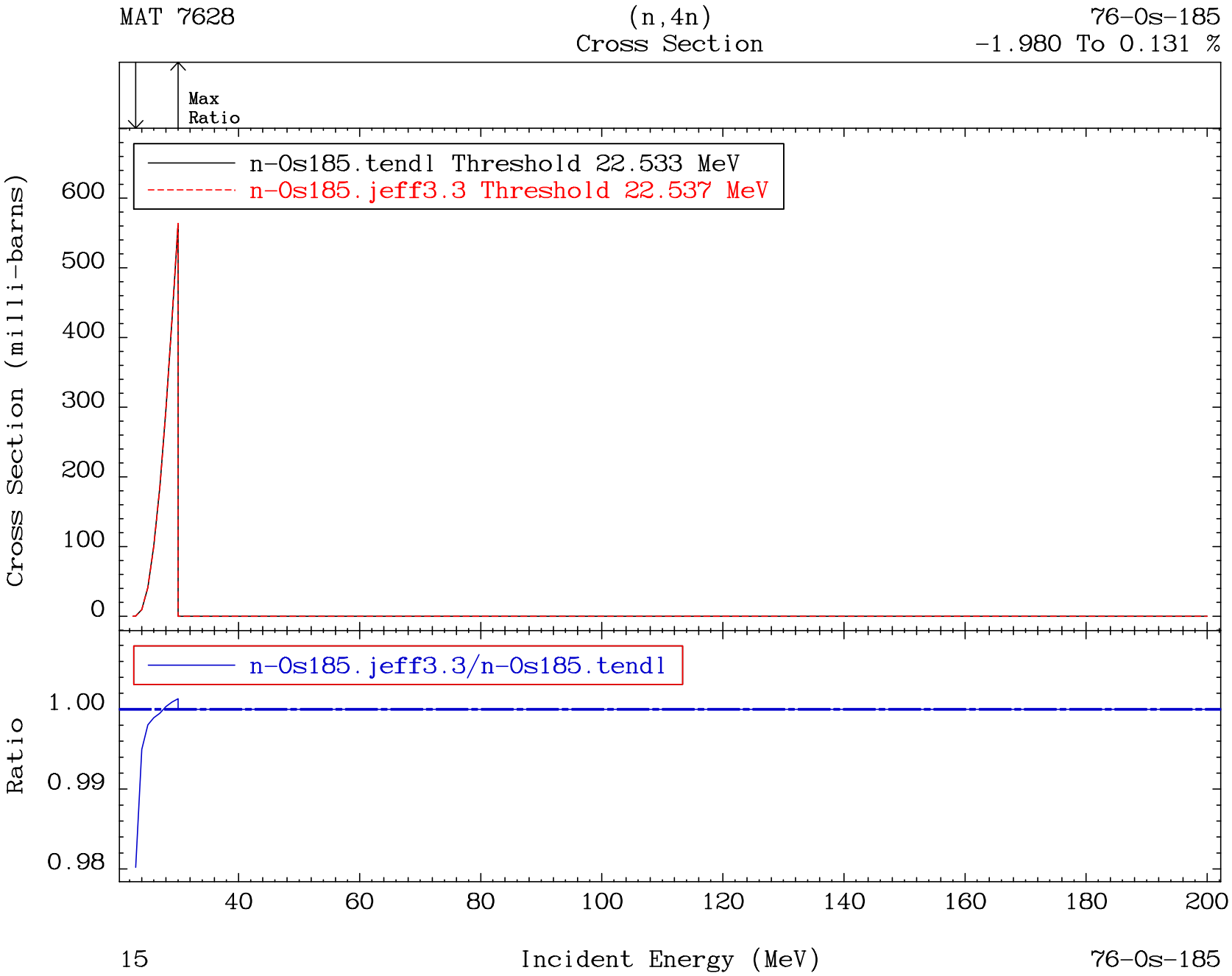

MAT 7628
(n,n') p
Cross Section
76-0s-185
0.000 To 2.314 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 5.9073 MeV
n-0s185.jeff3.3 Threshold 5.9061 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.03
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
76-0s-185

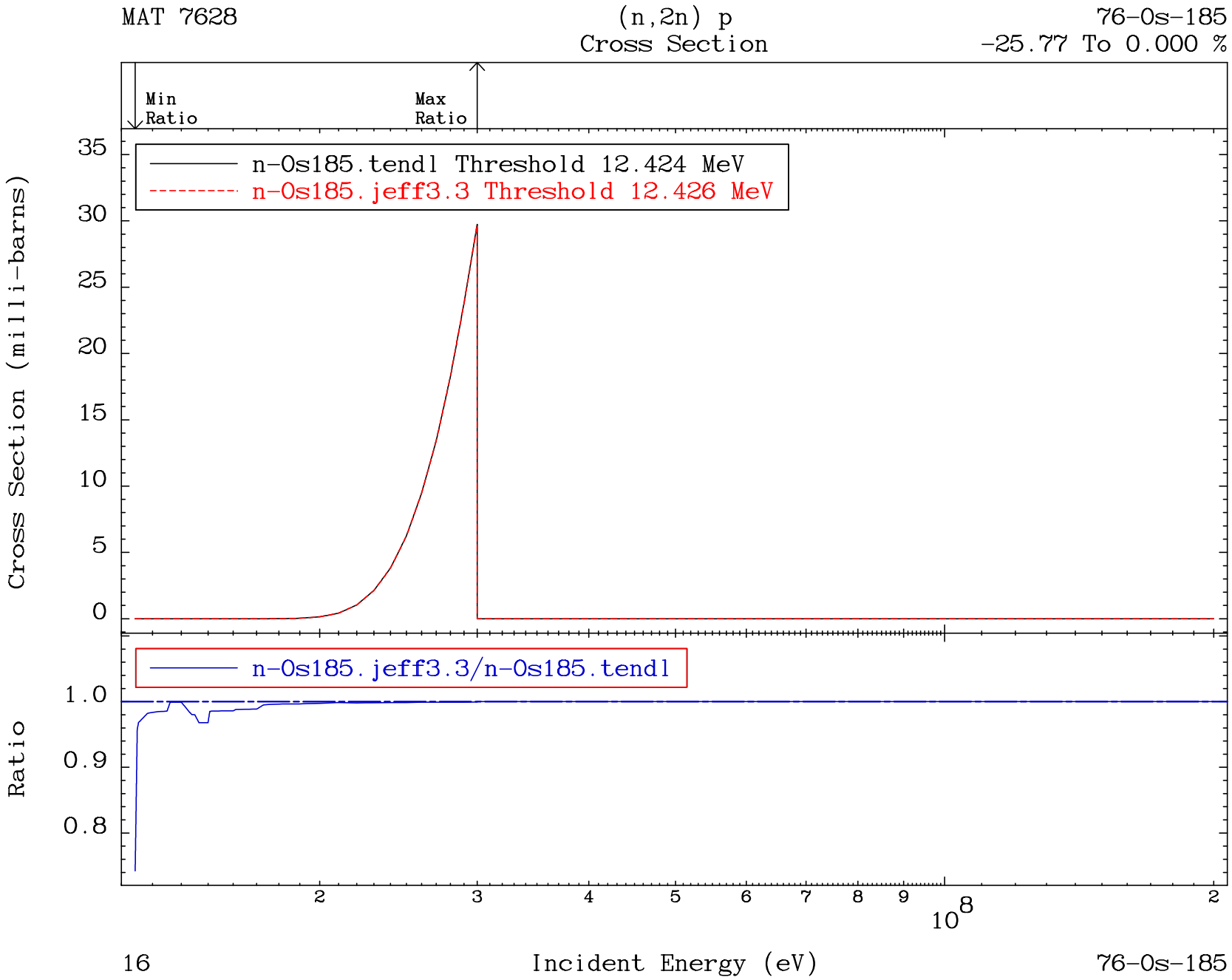

MAT 7628
(n,n') 2α
Cross Section
76-0s-185
0.000 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 142.60 eV
n-0s185.jeff3.3 Threshold 418.47 eV
Cross Section (10^-9 barns)
50
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^4
10^2
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
11
Incident Energy (eV)
76-0s-185

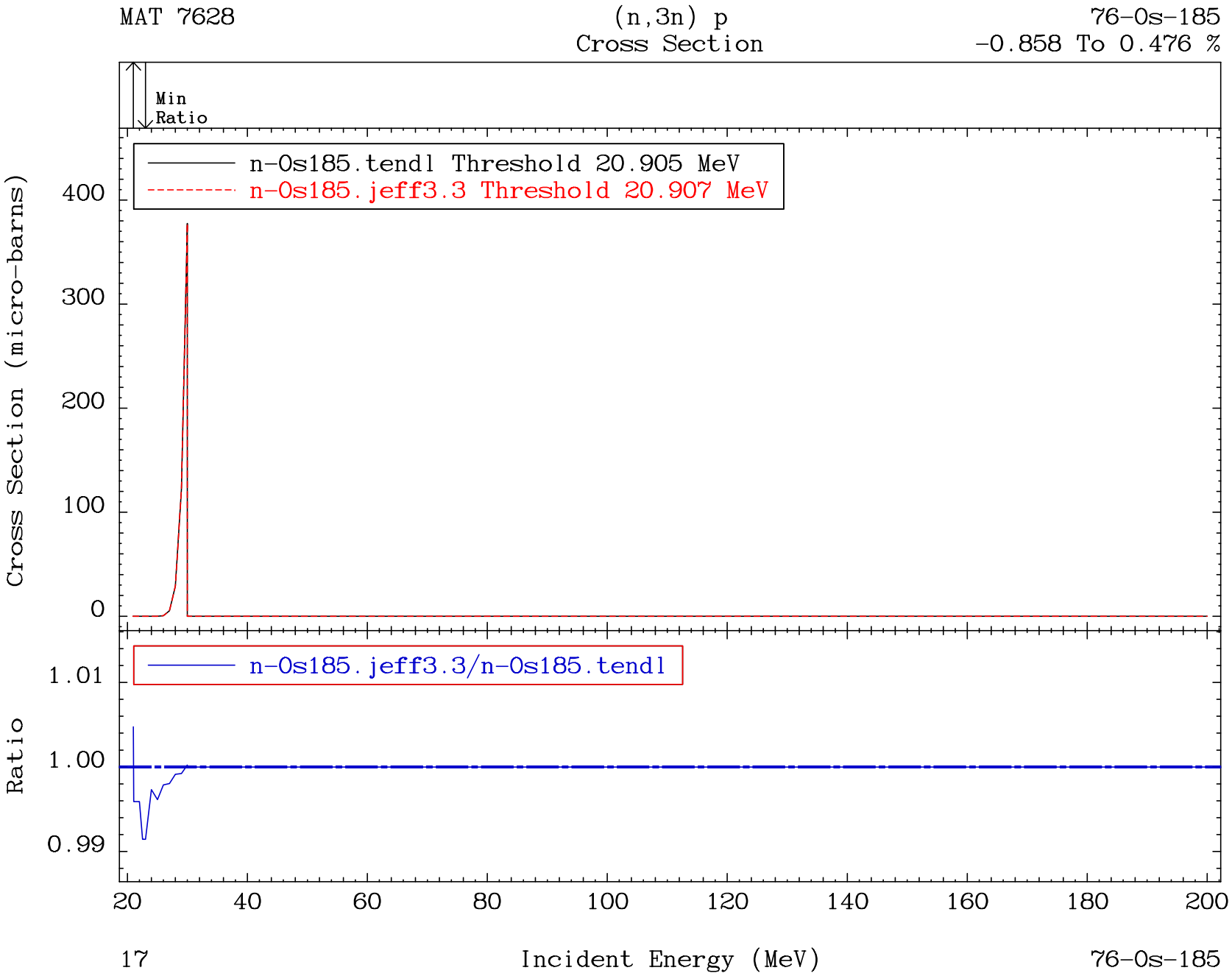

MAT 7628
(n,n') d
Cross Section
76-0s-185
-2.331 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 10.187 MeV
n-0s185.jeff3.3 Threshold 10.190 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.99
0.98
10^7
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
76-0s-185

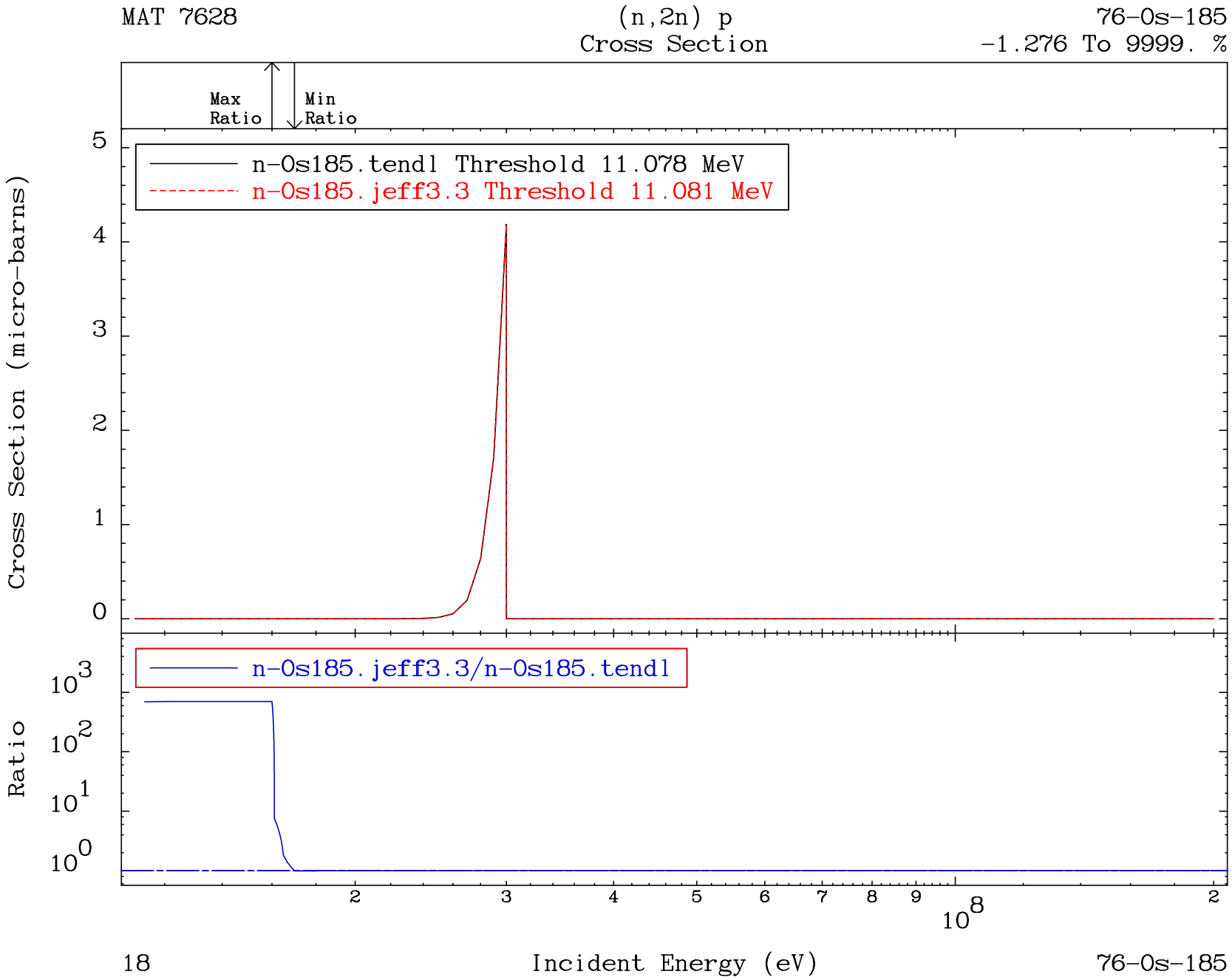

MAT 7628
(n,n') t
Cross Section
76-0s-185
-6.060 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 12.377 MeV
n-0s185.jeff3.3 Threshold 12.379 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
76-0s-185

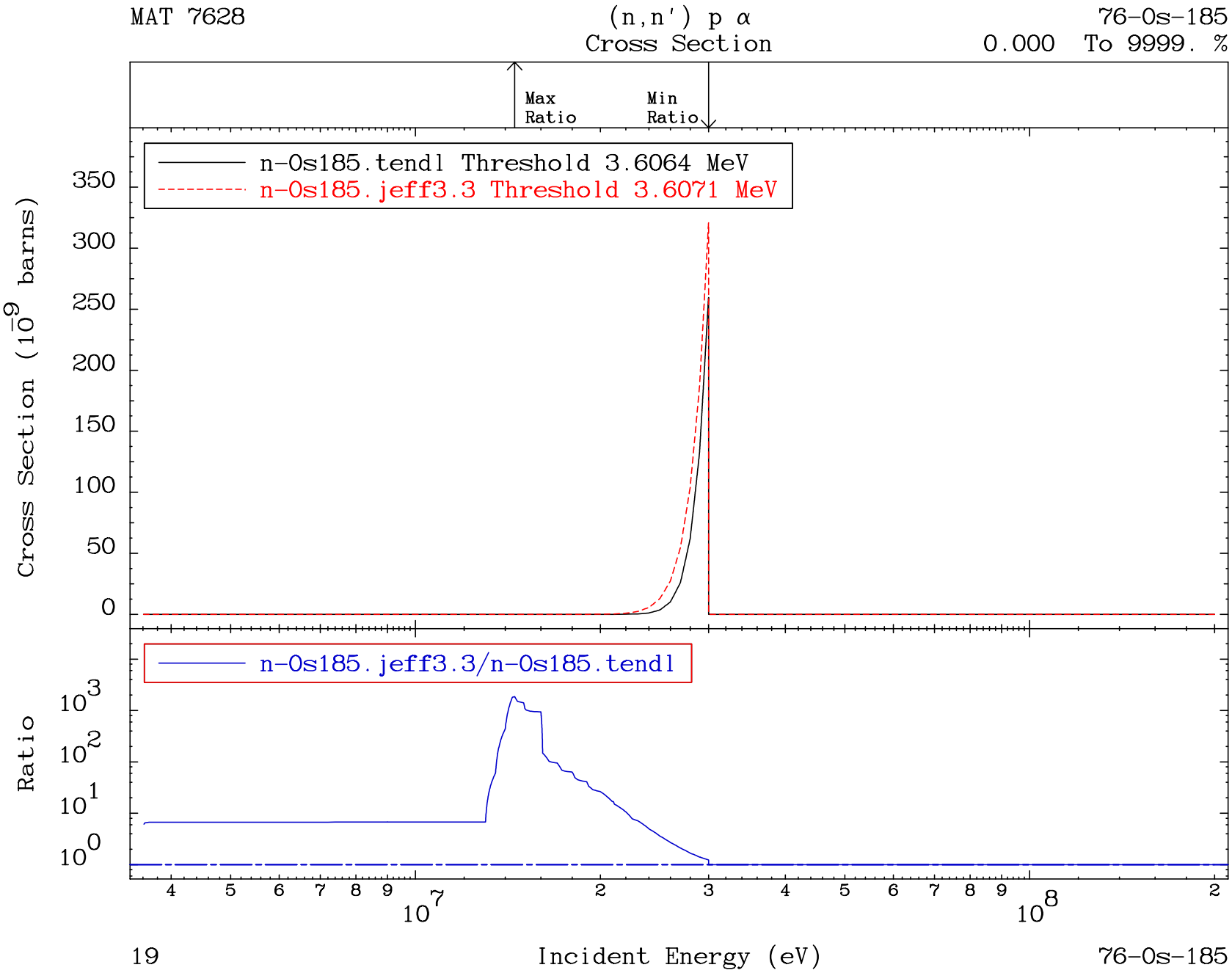

MAT 7628
(n,n') He-3
Cross Section
76-0s-185
-4.712 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 9.5428 MeV
n-0s185.jeff3.3 Threshold 9.5451 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
76-0s-185

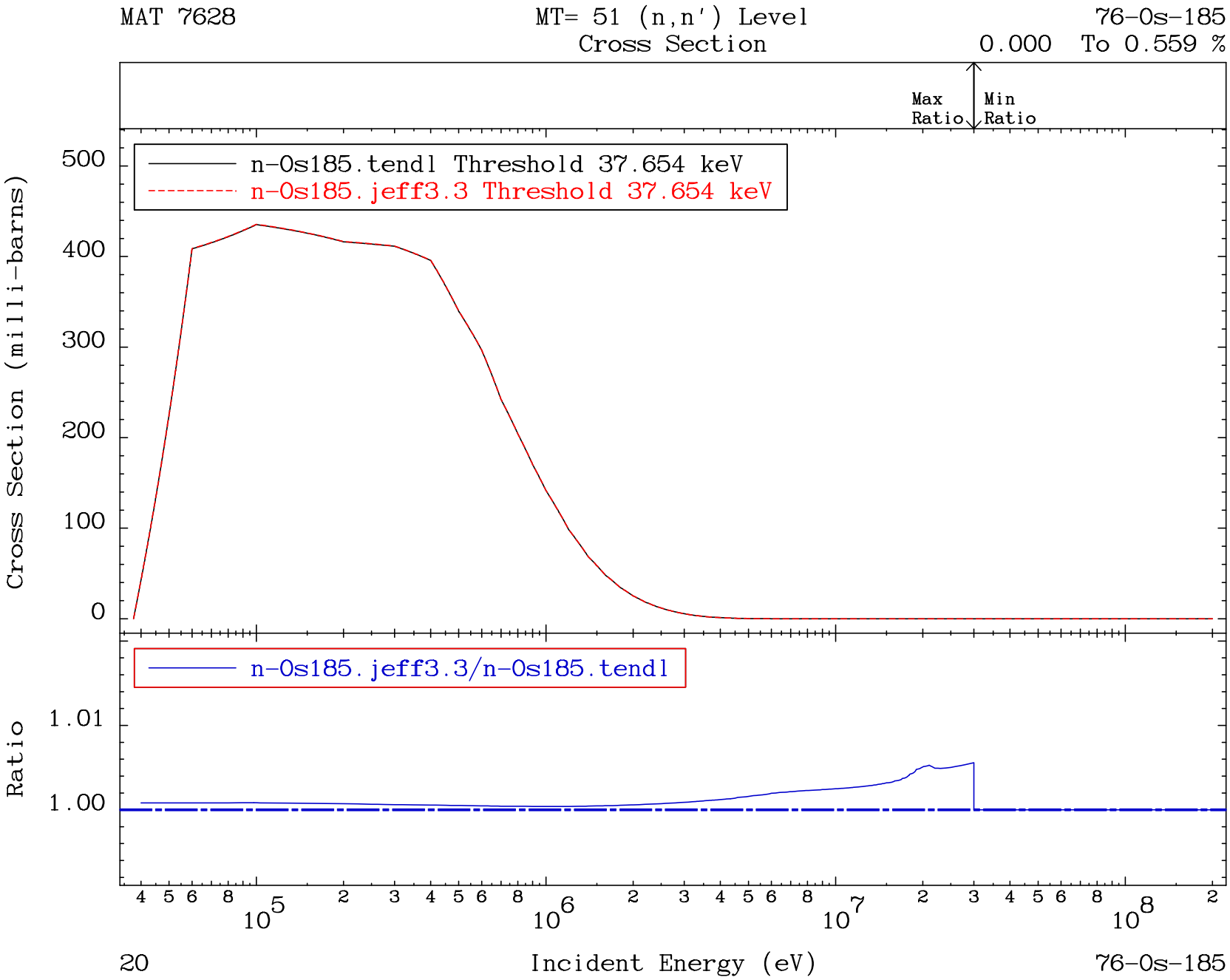

MAT 7628
(n,4n)
Cross Section
76-0s-185
-1.980 To 0.131 %
Max
Ratio
n-0s185.tendl Threshold 22.533 MeV
n-0s185.jeff3.3 Threshold 22.537 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.99
0.98
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
76-0s-185

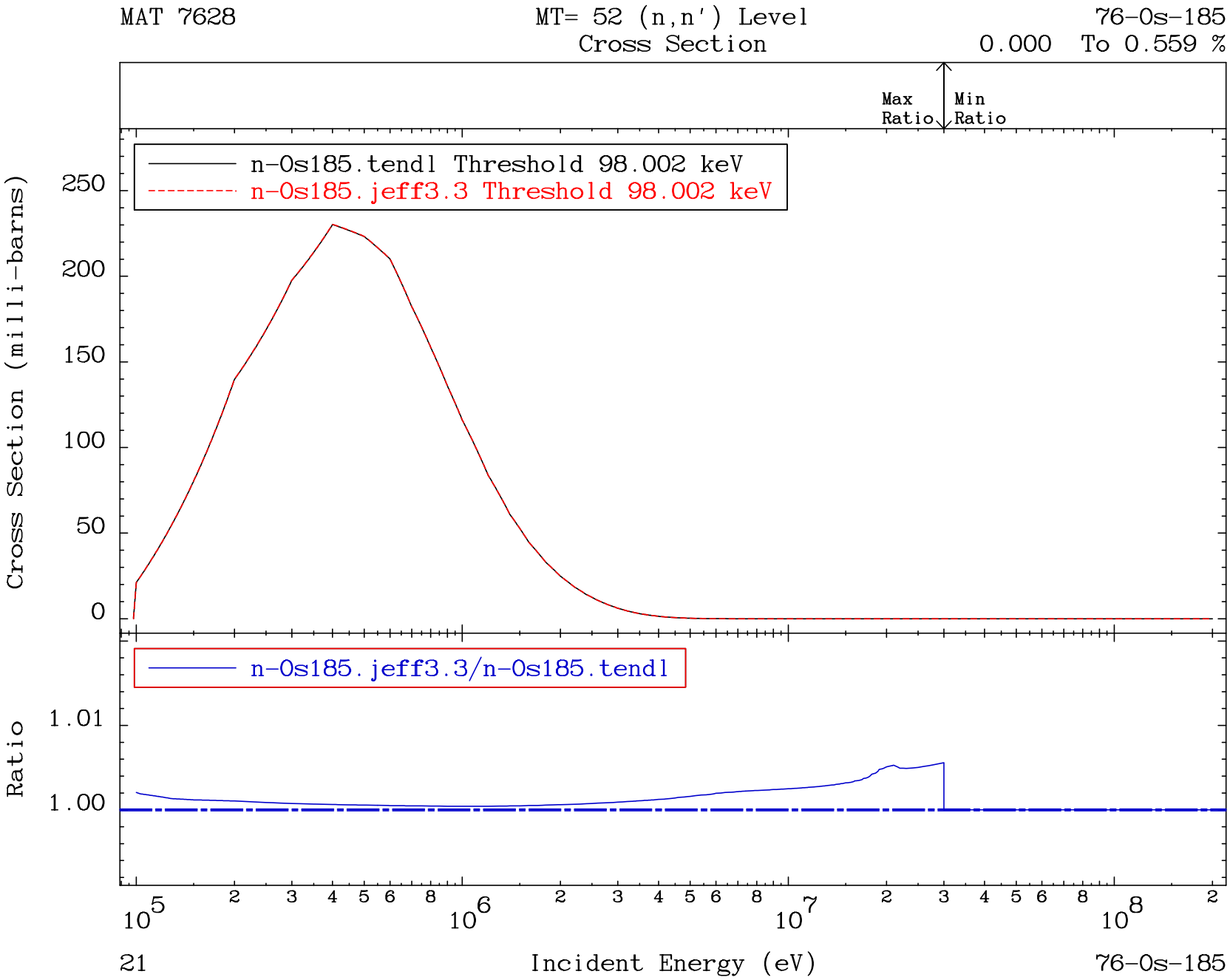

MAT 7628
(n,2n) p
Cross Section
76-0s-185
-25.77 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 12.424 MeV
n-0s185.jeff3.3 Threshold 12.426 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
76-0s-185

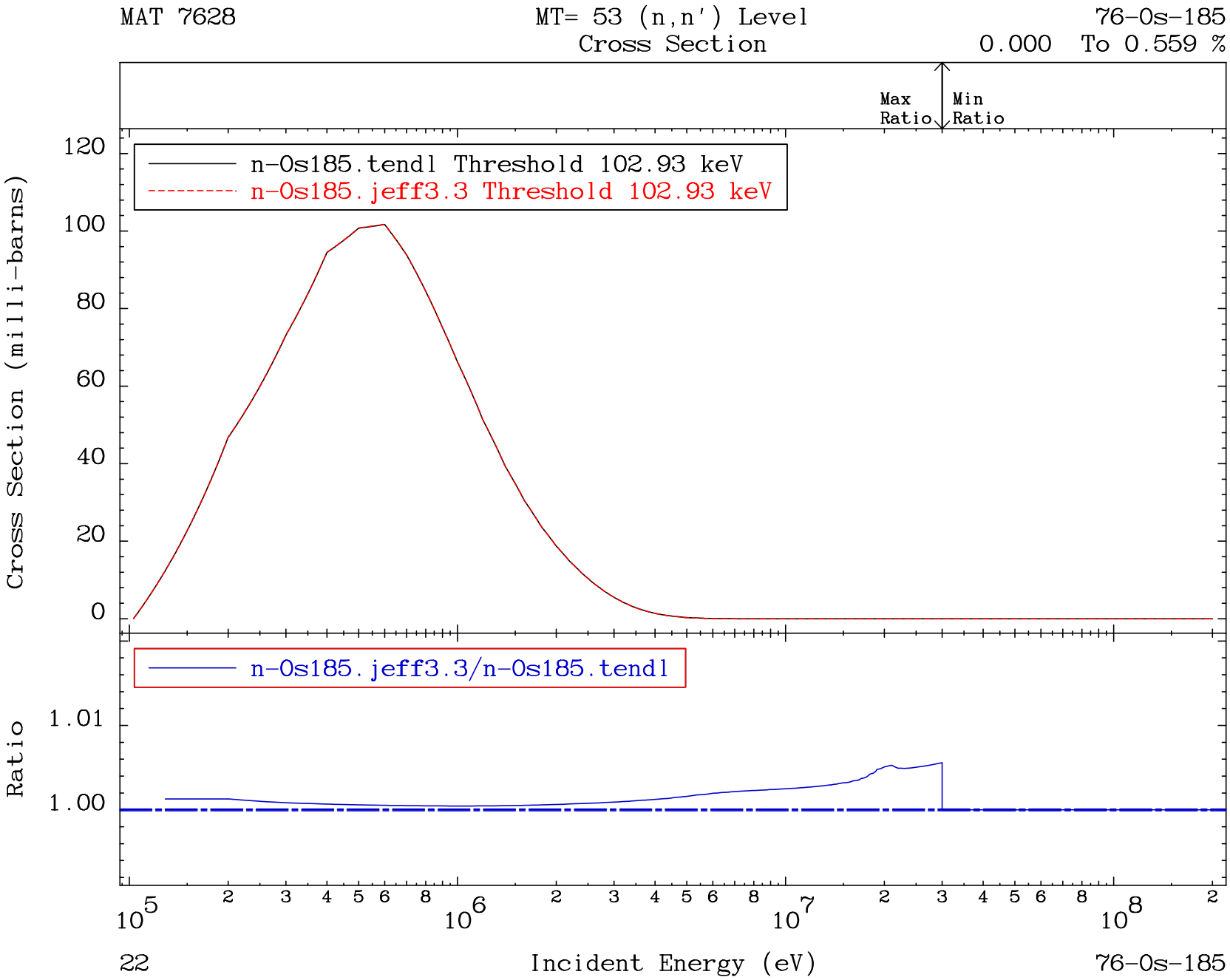

MAT 7628
(n,3n) p
Cross Section
76-0s-185
-0.858 To 0.476 %
Min
Ratio
n-0s185.tendl Threshold 20.905 MeV
n-0s185.jeff3.3 Threshold 20.907 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
76-0s-185

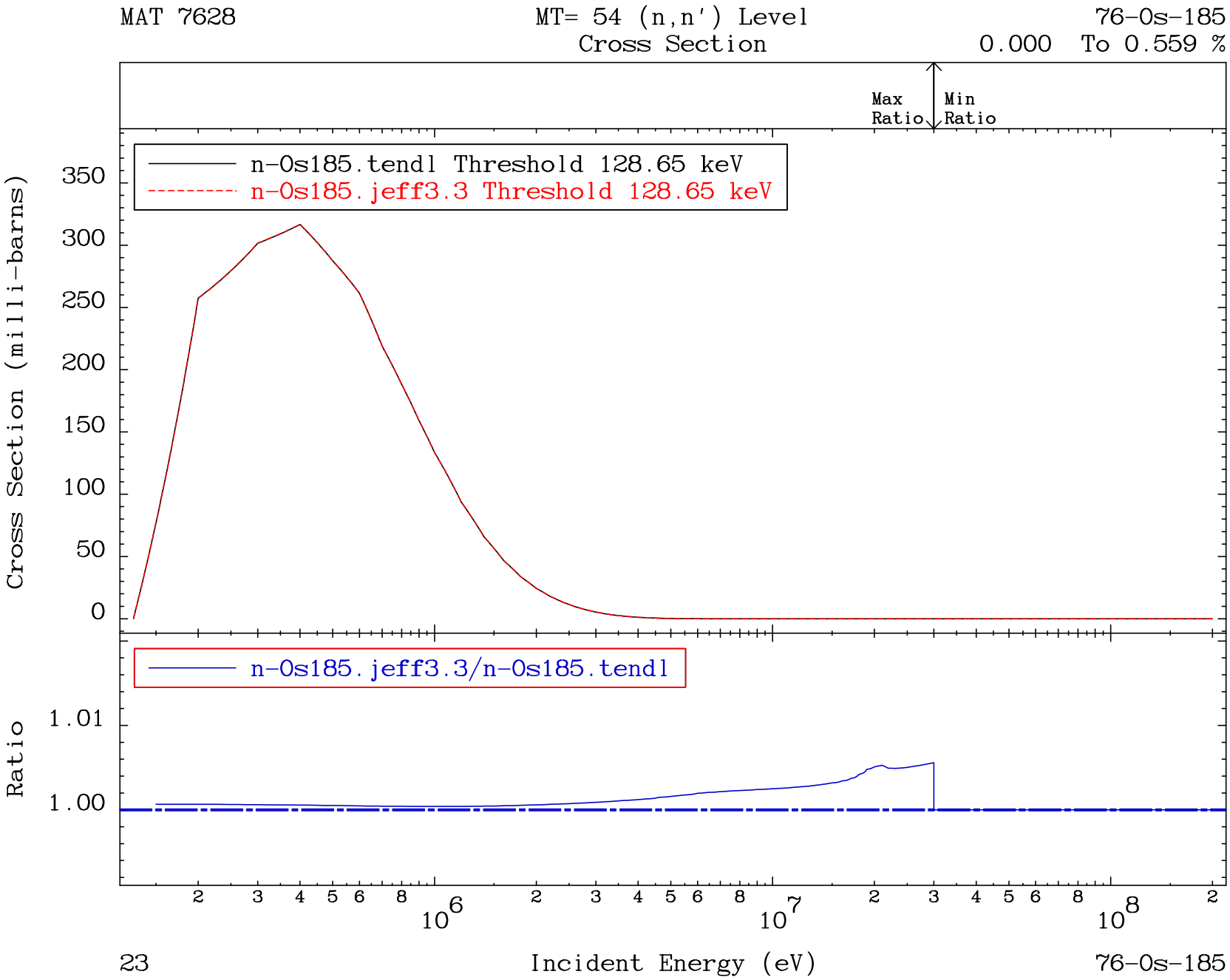

MAT 7628
(n,2n) p
Cross Section
76-0s-185
-1.276 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 11.078 MeV
n-0s185.jeff3.3 Threshold 11.081 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
76-0s-185

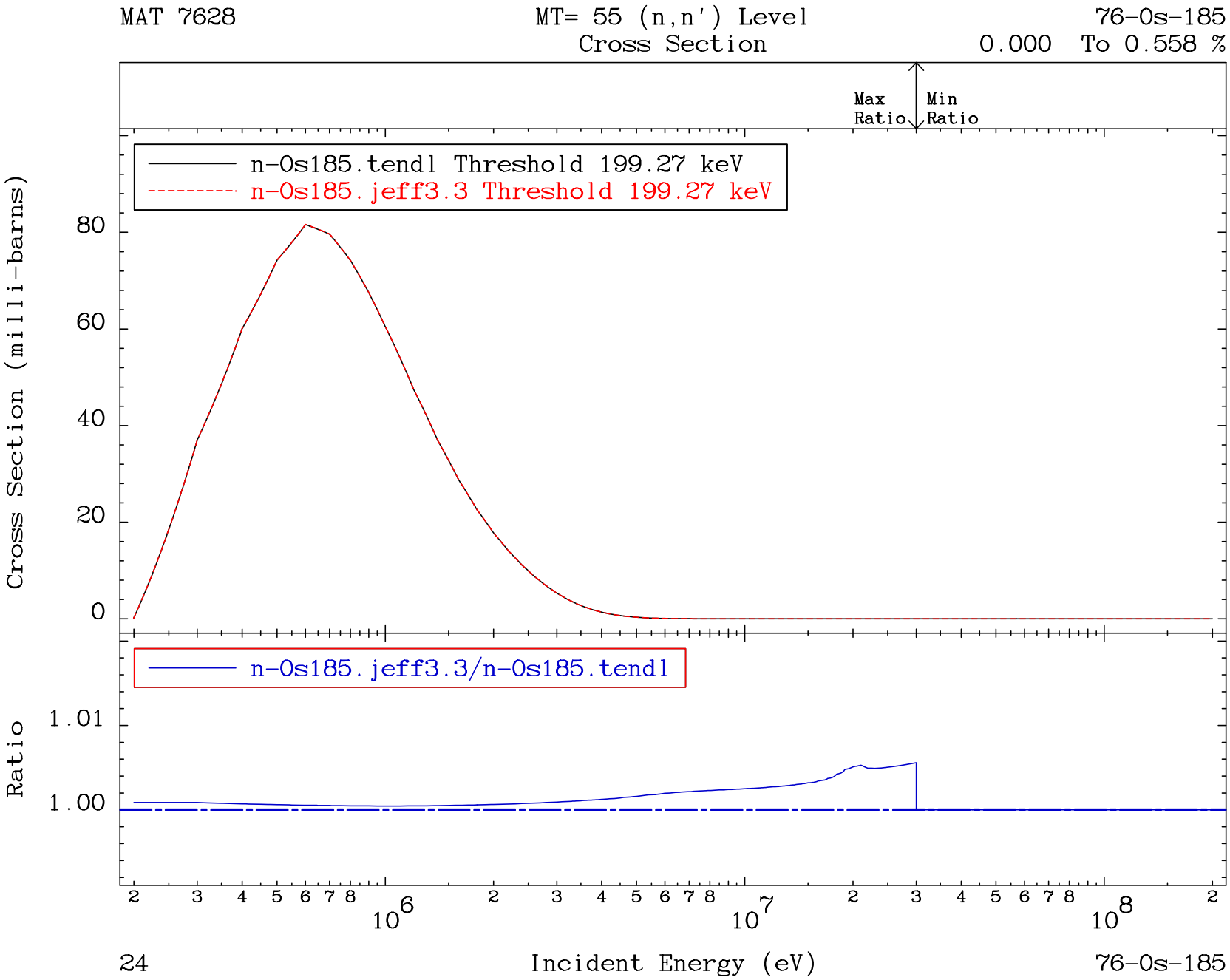

MAT 7628
(n,n') p α
Cross Section
76-0s-185
0.000 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 3.6064 MeV
n-0s185.jeff3.3 Threshold 3.6071 MeV
Cross Section (10^{-9} barns)
350
300
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
76-0s-185

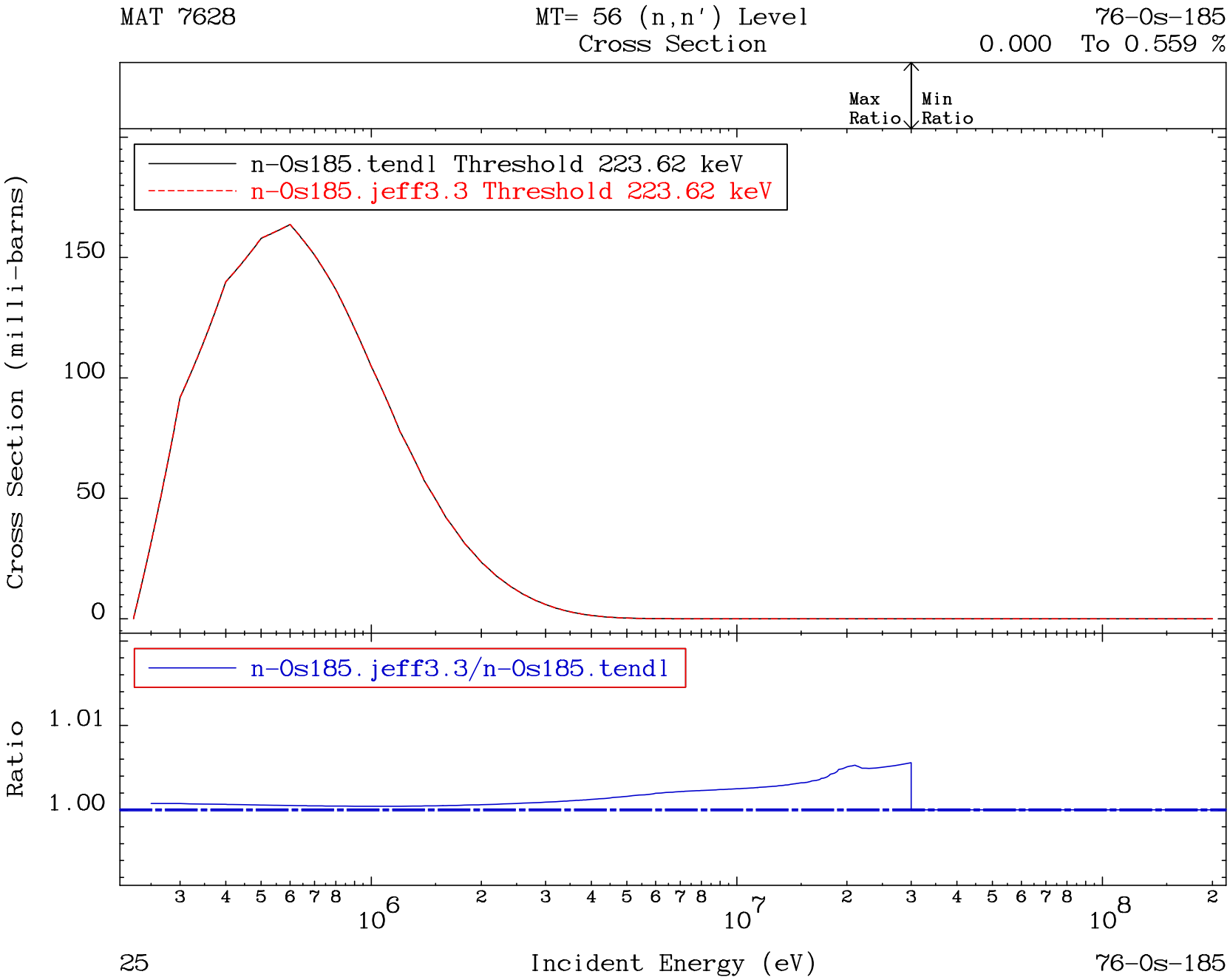

MAT 7628
MT= 51 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 37.654 keV
n-0s185.jeff3.3 Threshold 37.654 keV
Cross Section (milli-barns)
500
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
76-0s-185

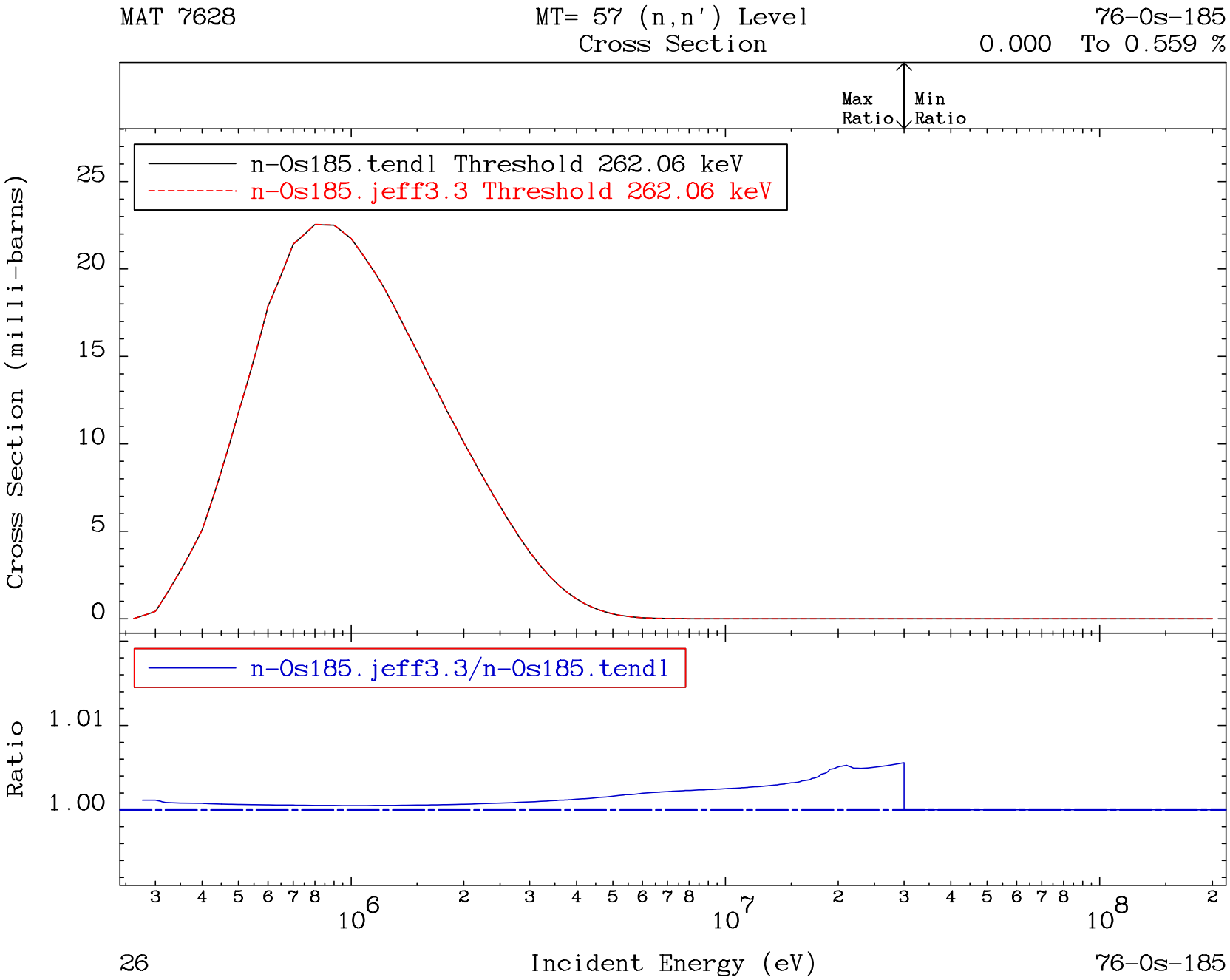

MAT 7628
MT= 52 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 98.002 keV
n-0s185.jeff3.3 Threshold 98.002 keV
Cross Section (milli-barns)
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
10^5
2 3 4 5 6 8
10^6
2 3 4 5 6 8
10^7
2 3 4 5 6 8
10^8
2
21
Incident Energy (eV)
76-0s-185

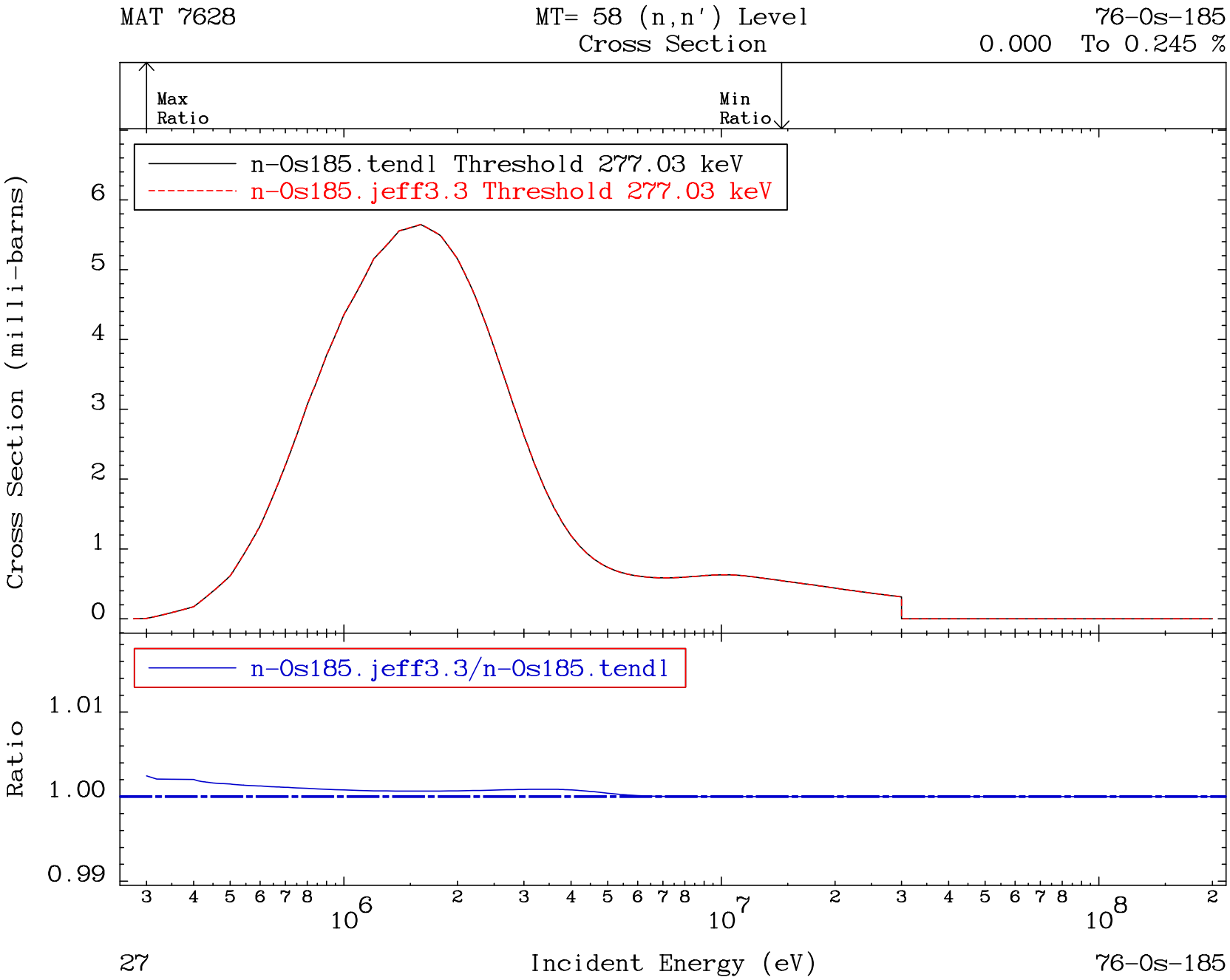

MAT 7628
MT= 53 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 102.93 keV
n-0s185.jeff3.3 Threshold 102.93 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
10^5
10^6
10^7
10^8
22
Incident Energy (eV)
76-0s-185

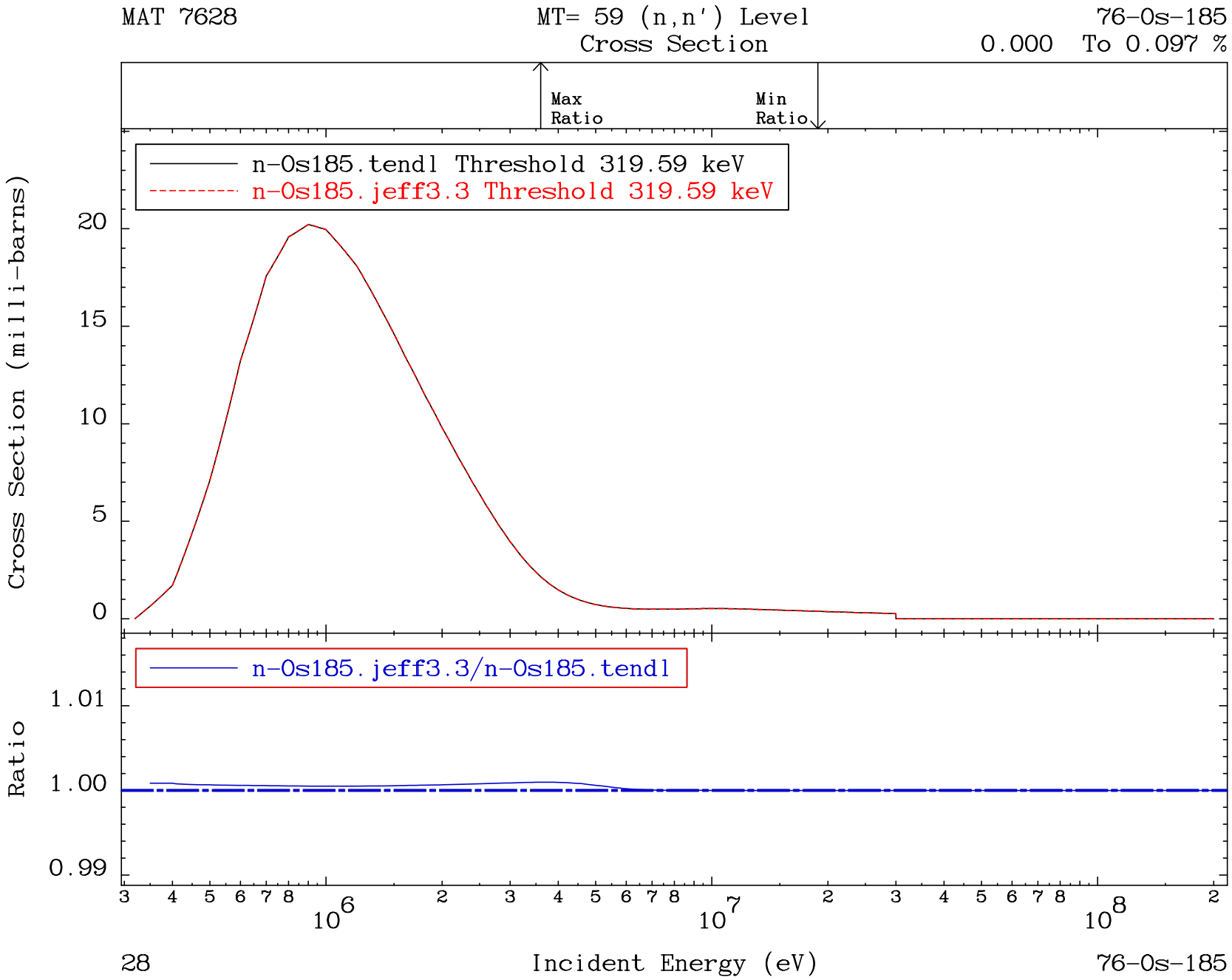

MAT 7628
MT= 54 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 128.65 keV
n-0s185.jeff3.3 Threshold 128.65 keV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
23
Incident Energy (eV)
76-0s-185

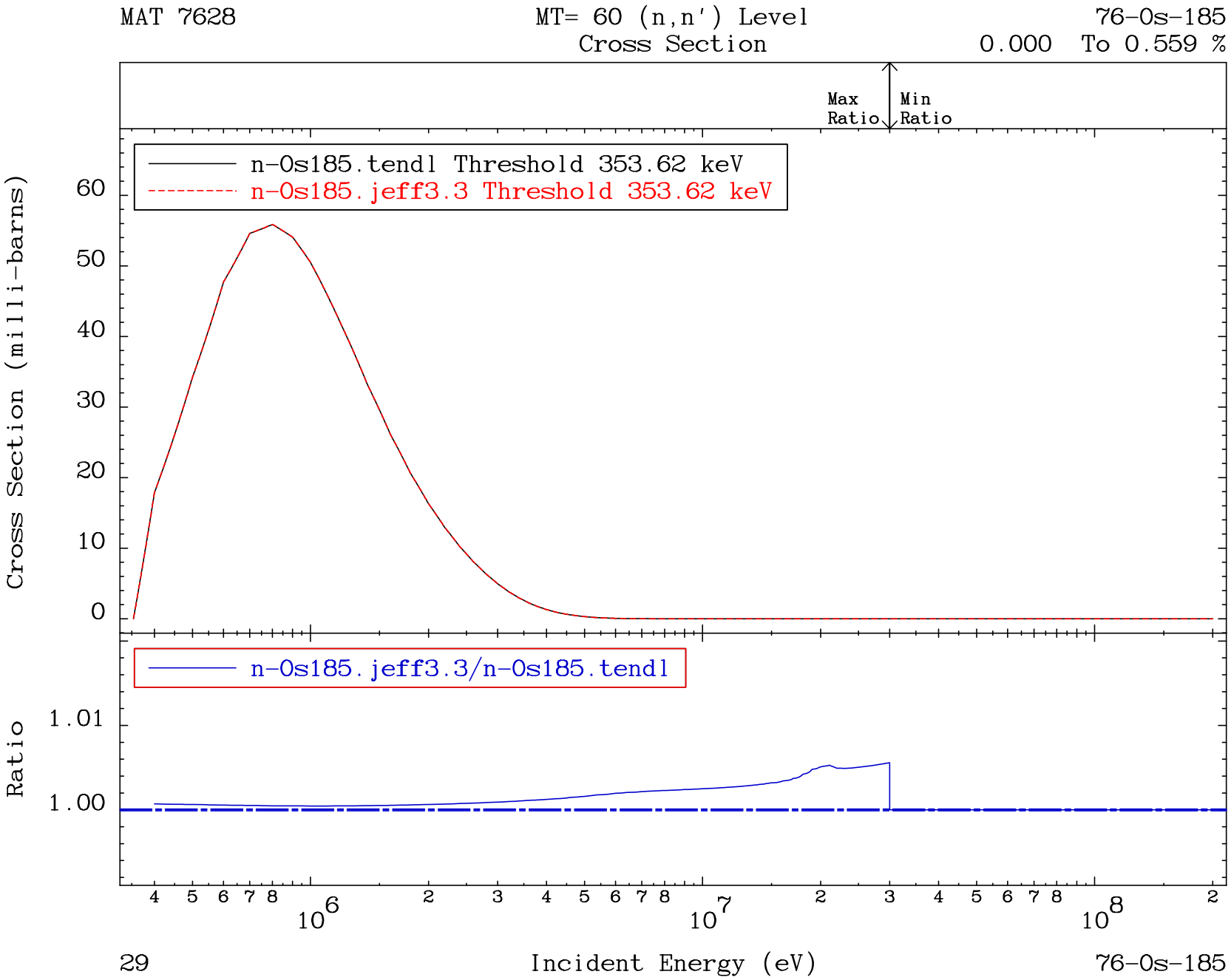

MAT 7628
MT= 55 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.558 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 199.27 keV
n-0s185.jeff3.3 Threshold 199.27 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
2 3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
76-0s-185

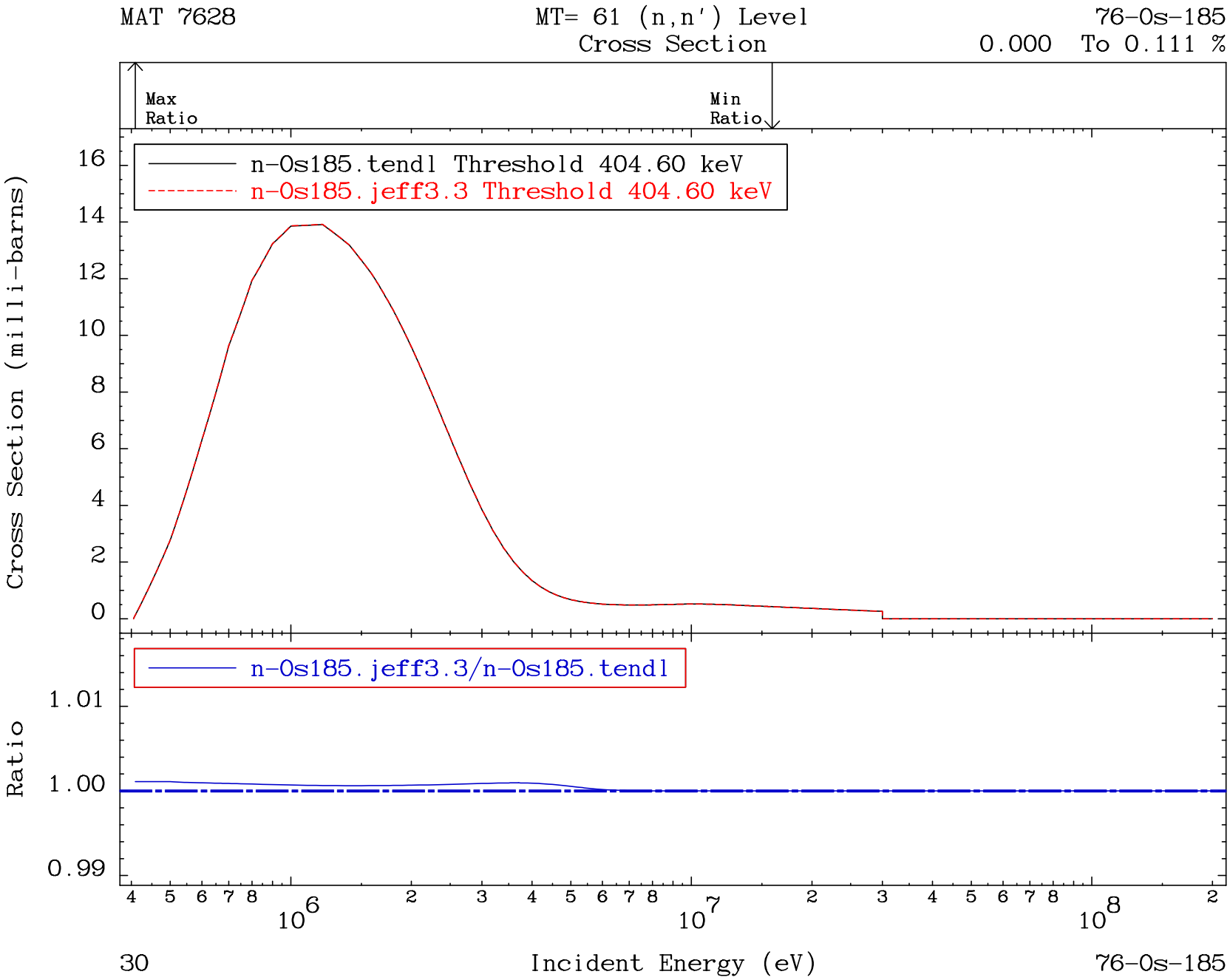

MAT 7628
MT= 56 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 223.62 keV
n-0s185.jeff3.3 Threshold 223.62 keV
Cross Section (milli-barns)
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
76-0s-185

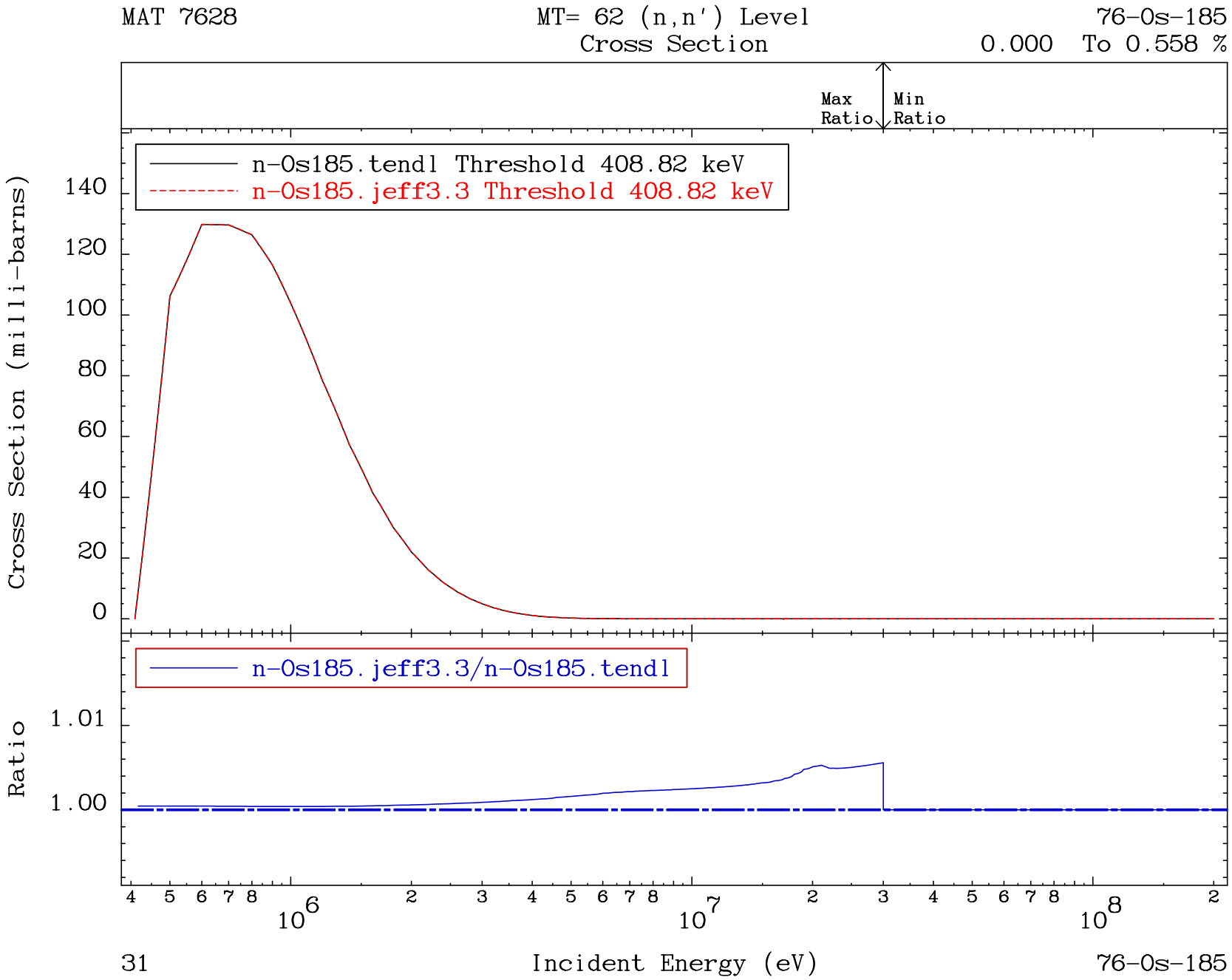

MAT 7628
MT= 57 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 262.06 keV
n-0s185.jeff3.3 Threshold 262.06 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
76-0s-185

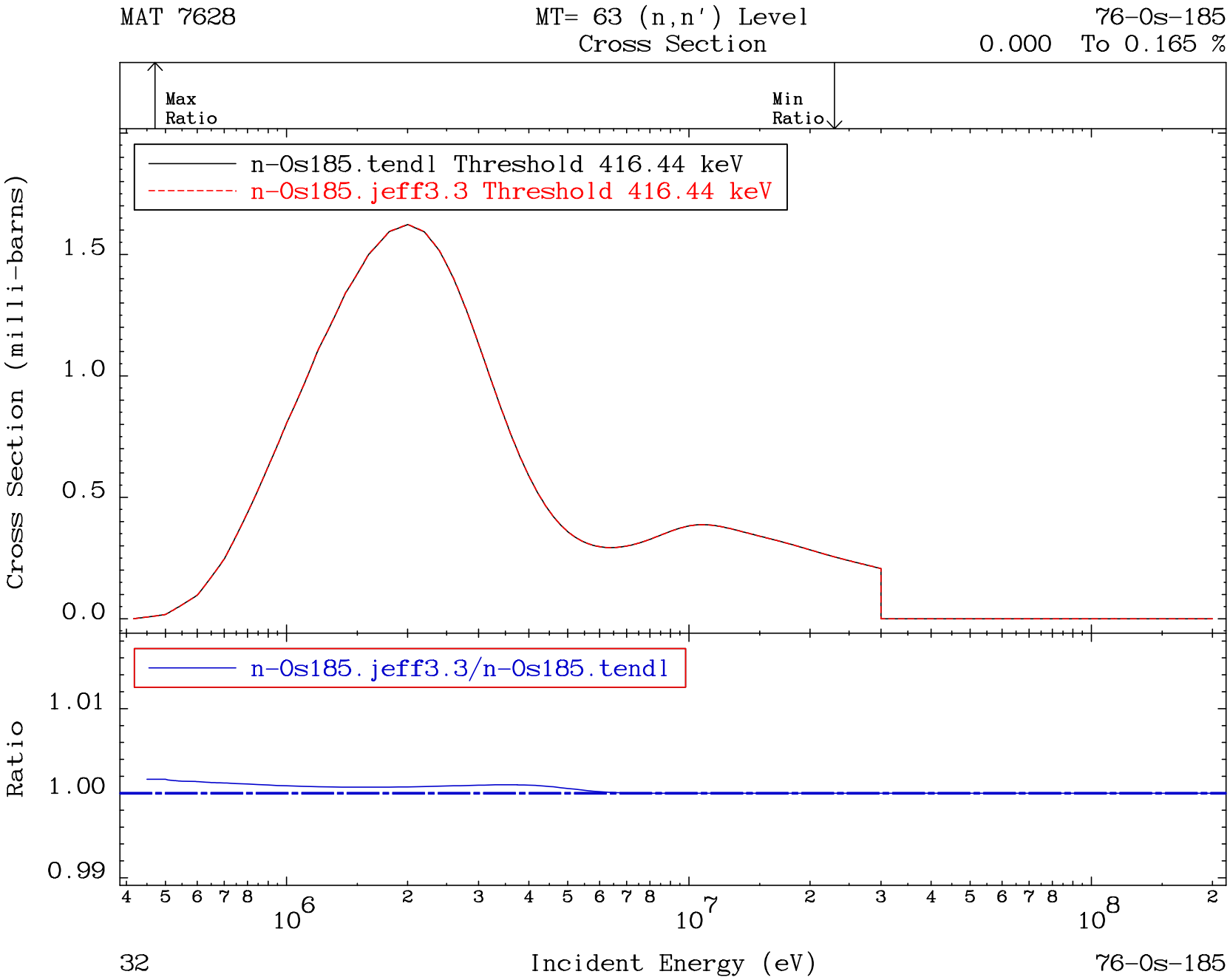

MAT 7628
MT= 58 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.245 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 277.03 keV
n-0s185.jeff3.3 Threshold 277.03 keV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-0s185.jeff3.3/n-0s185.tendl
Ratio
0.99
1.00
1.01
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
27
76-0s-185

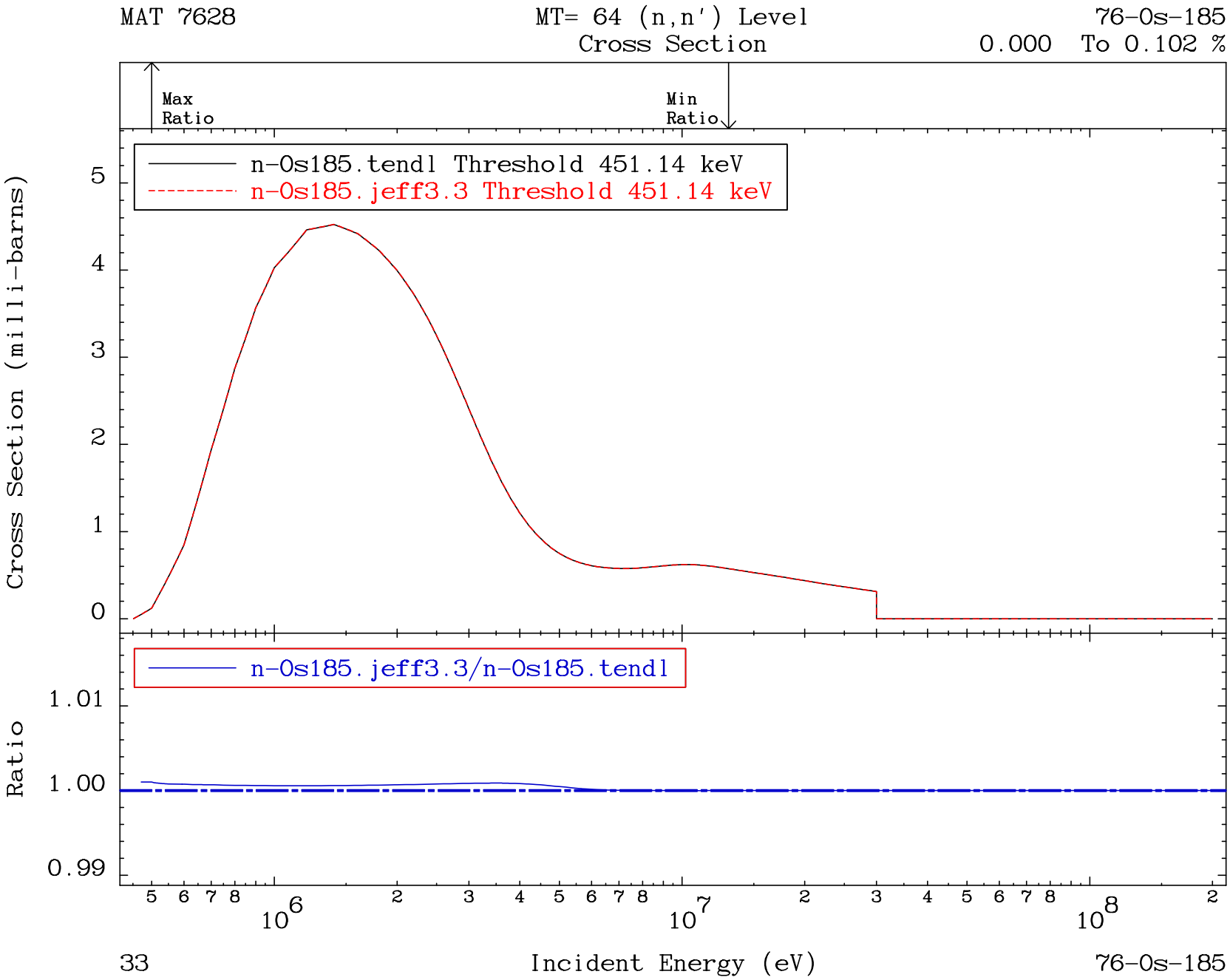

MAT 7628
MT= 59 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.097 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 319.59 keV
n-0s185.jeff3.3 Threshold 319.59 keV
Cross Section (milli-barns)
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
76-0s-185

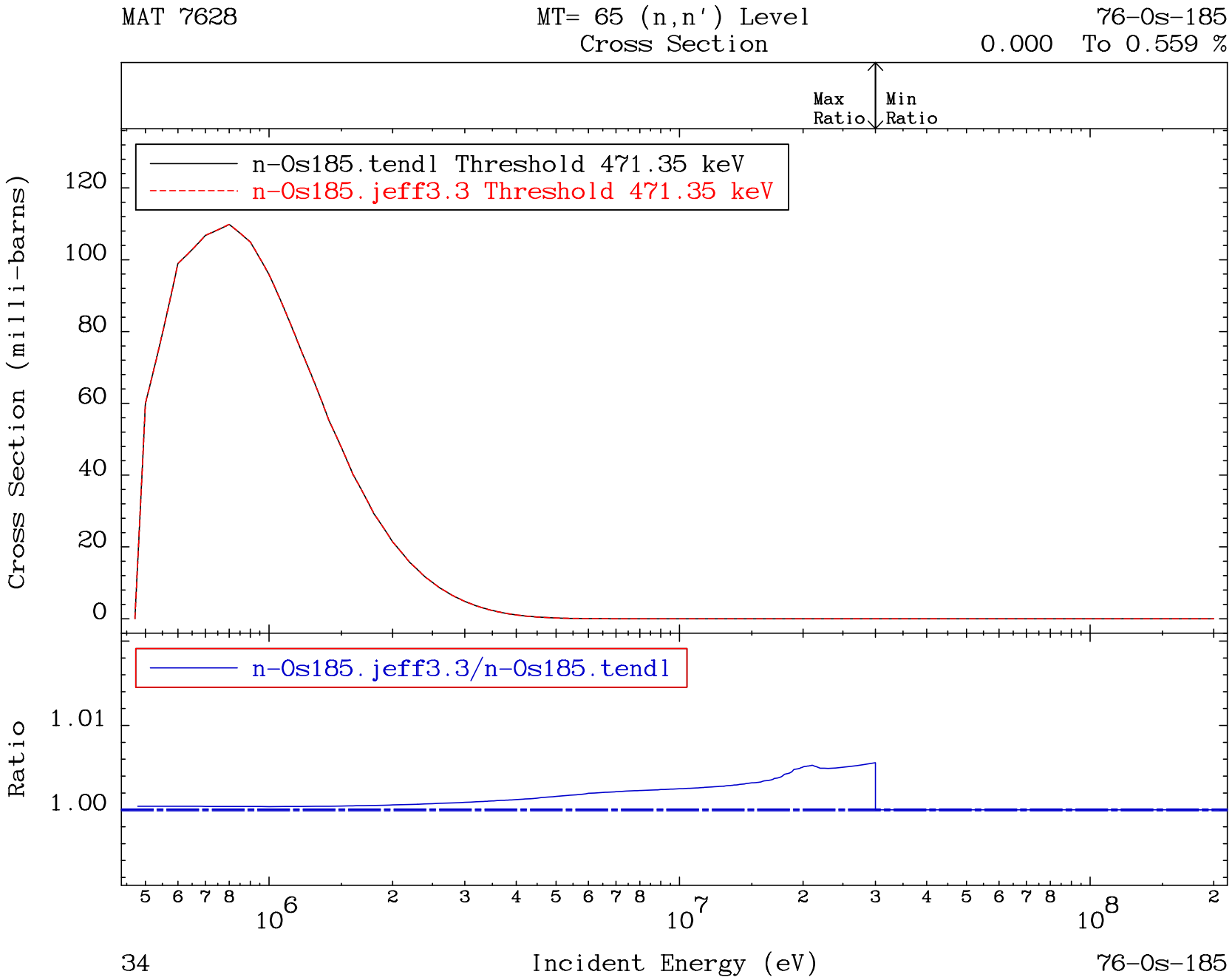

MAT 7628
MT= 60 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 353.62 keV
n-0s185.jeff3.3 Threshold 353.62 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
76-0s-185

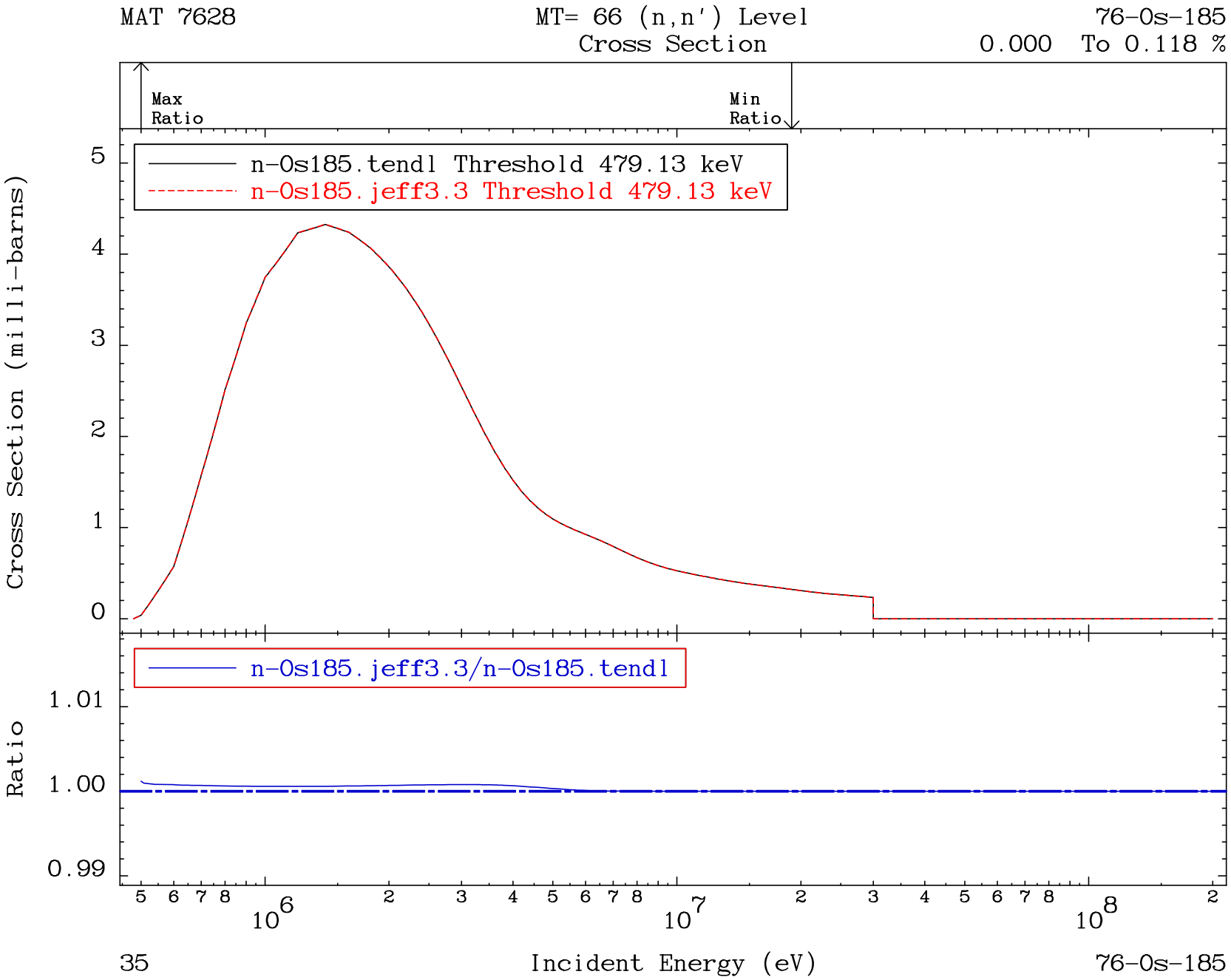

MAT 7628
MT= 61 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.111 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 404.60 keV
n-0s185.jeff3.3 Threshold 404.60 keV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
76-0s-185

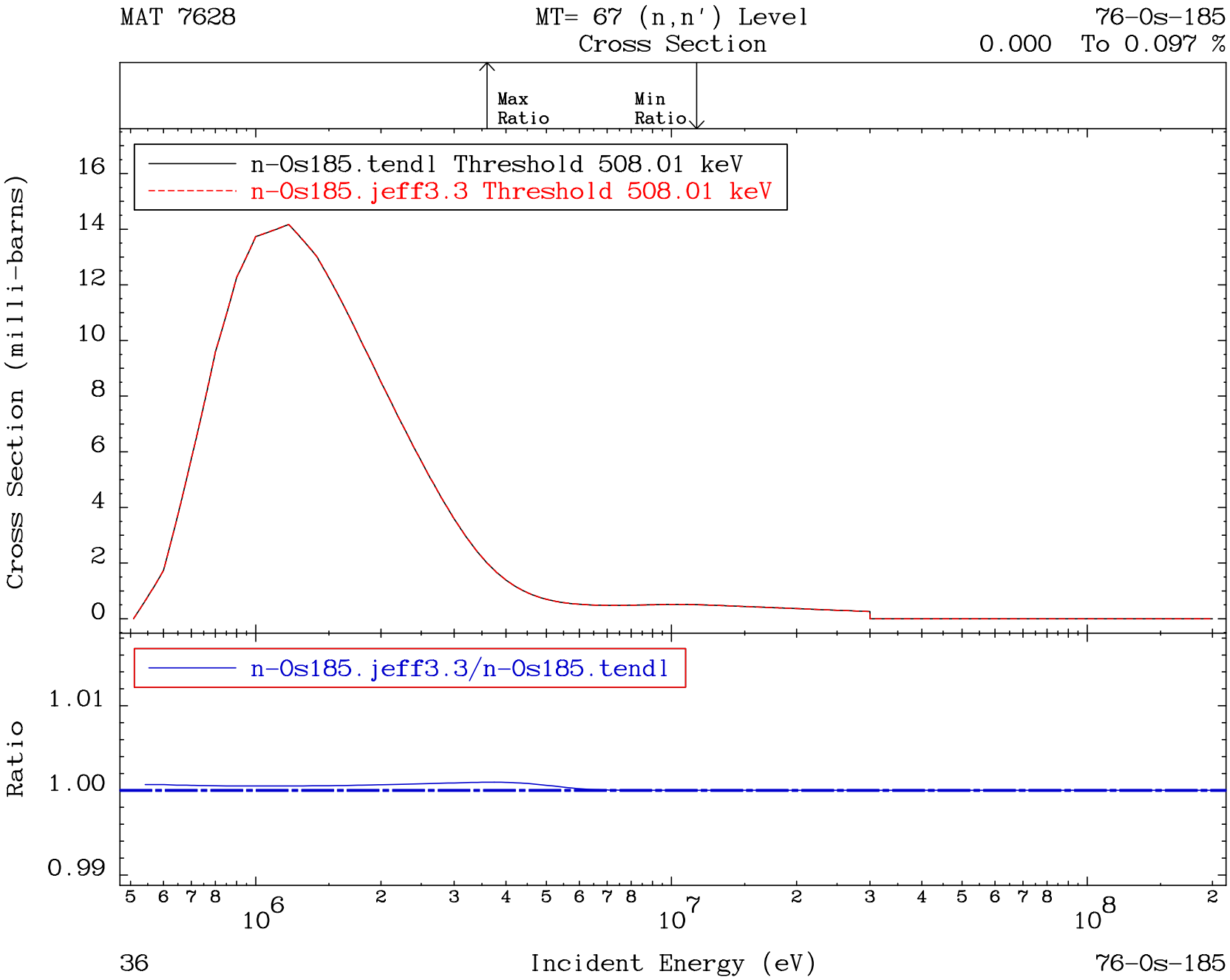

MAT 7628
MT= 62 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.558 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 408.82 keV
n-0s185.jeff3.3 Threshold 408.82 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
76-0s-185

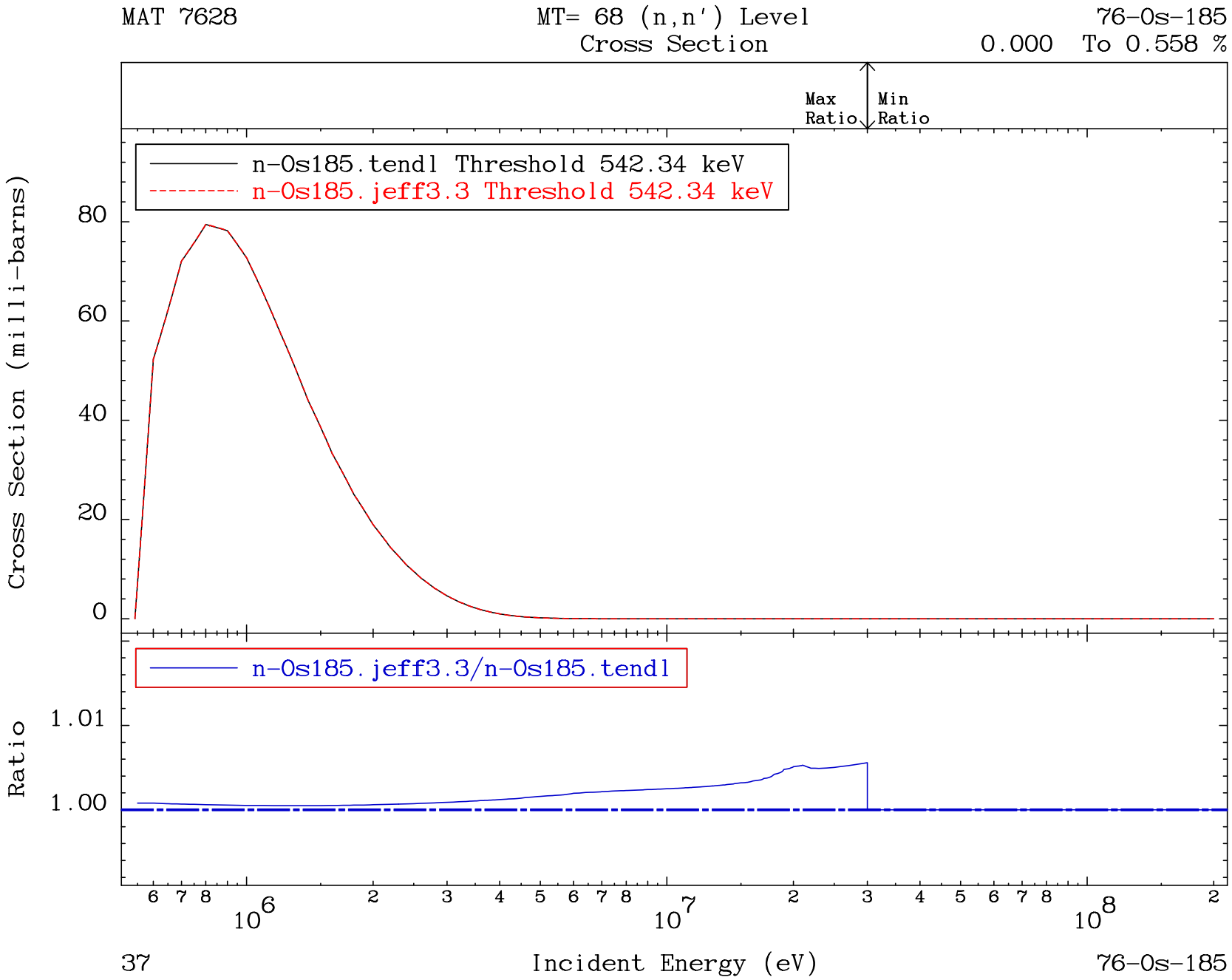

MAT 7628
MT= 63 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.165 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 416.44 keV
n-0s185.jeff3.3 Threshold 416.44 keV
Cross Section (milli-barns)
1.5
1.0
0.5
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
76-0s-185

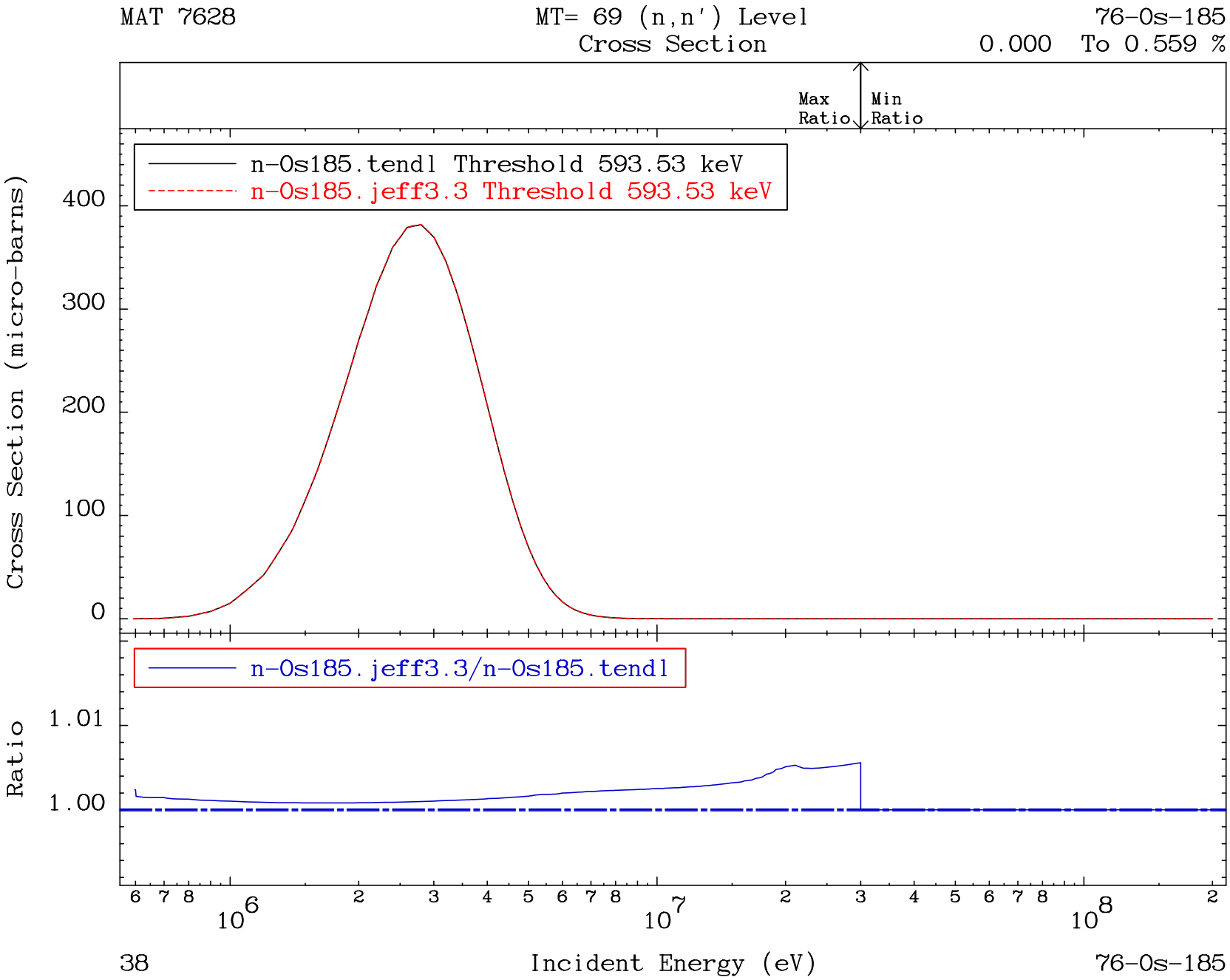

MAT 7628
MT= 64 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.102 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 451.14 keV
n-0s185.jeff3.3 Threshold 451.14 keV
Cross Section (milli-barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
33
76-0s-185

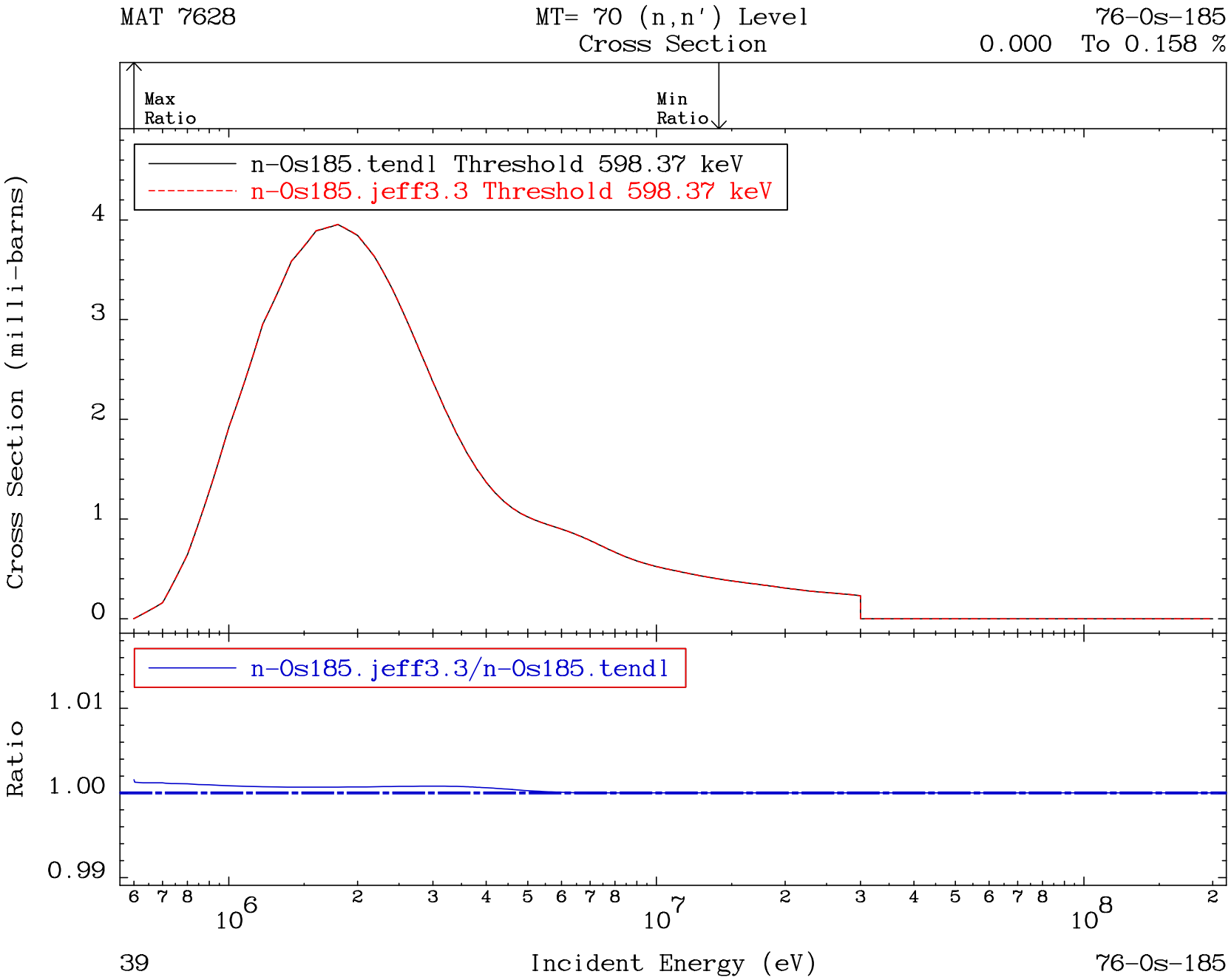

MAT 7628
MT= 65 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 471.35 keV
n-0s185.jeff3.3 Threshold 471.35 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
76-0s-185

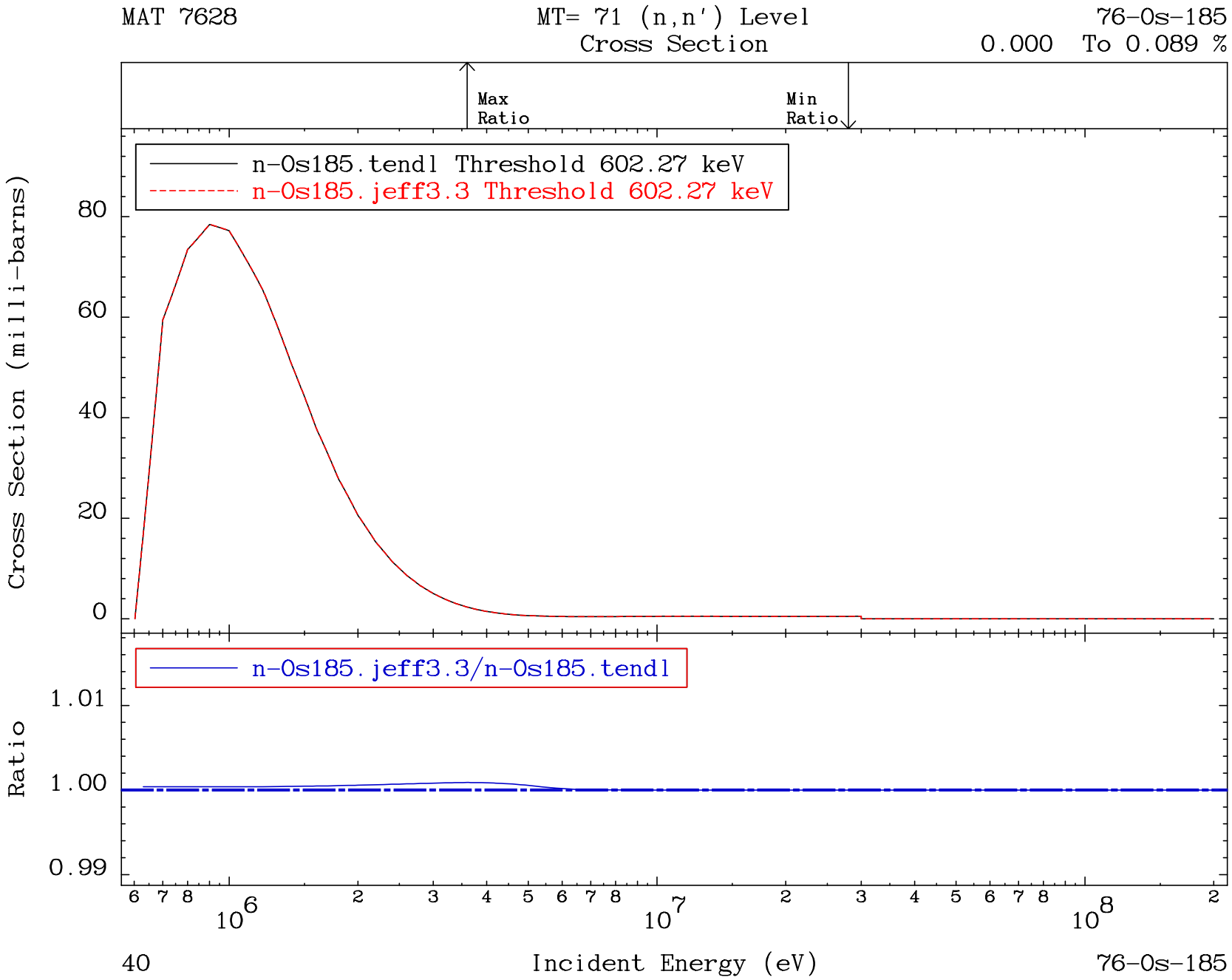

MAT 7628
MT= 66 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.118 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 479.13 keV
n-0s185.jeff3.3 Threshold 479.13 keV
Cross Section (milli-barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
35
76-0s-185

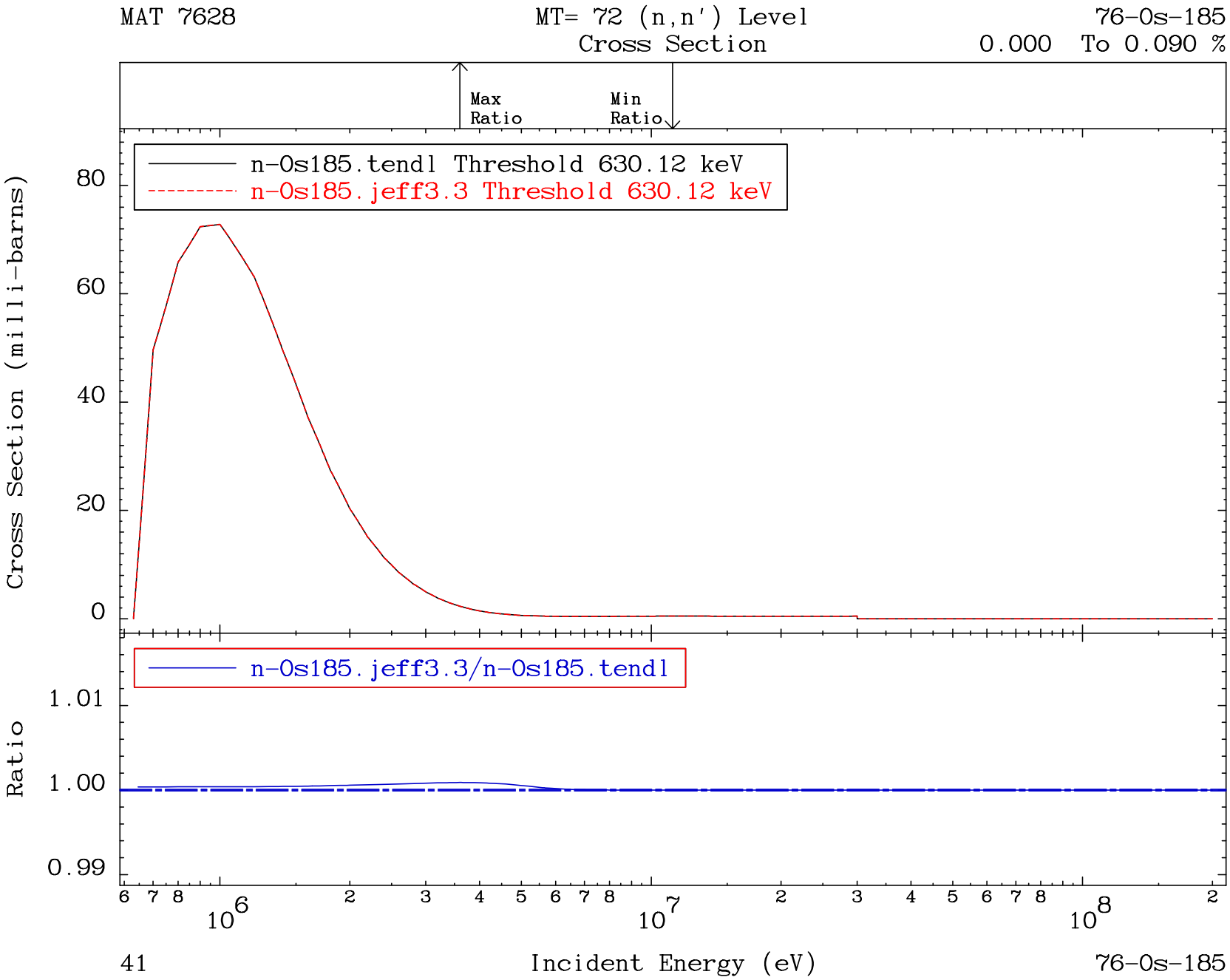

MAT 7628
MT= 67 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.097 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 508.01 keV
n-0s185.jeff3.3 Threshold 508.01 keV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
76-0s-185

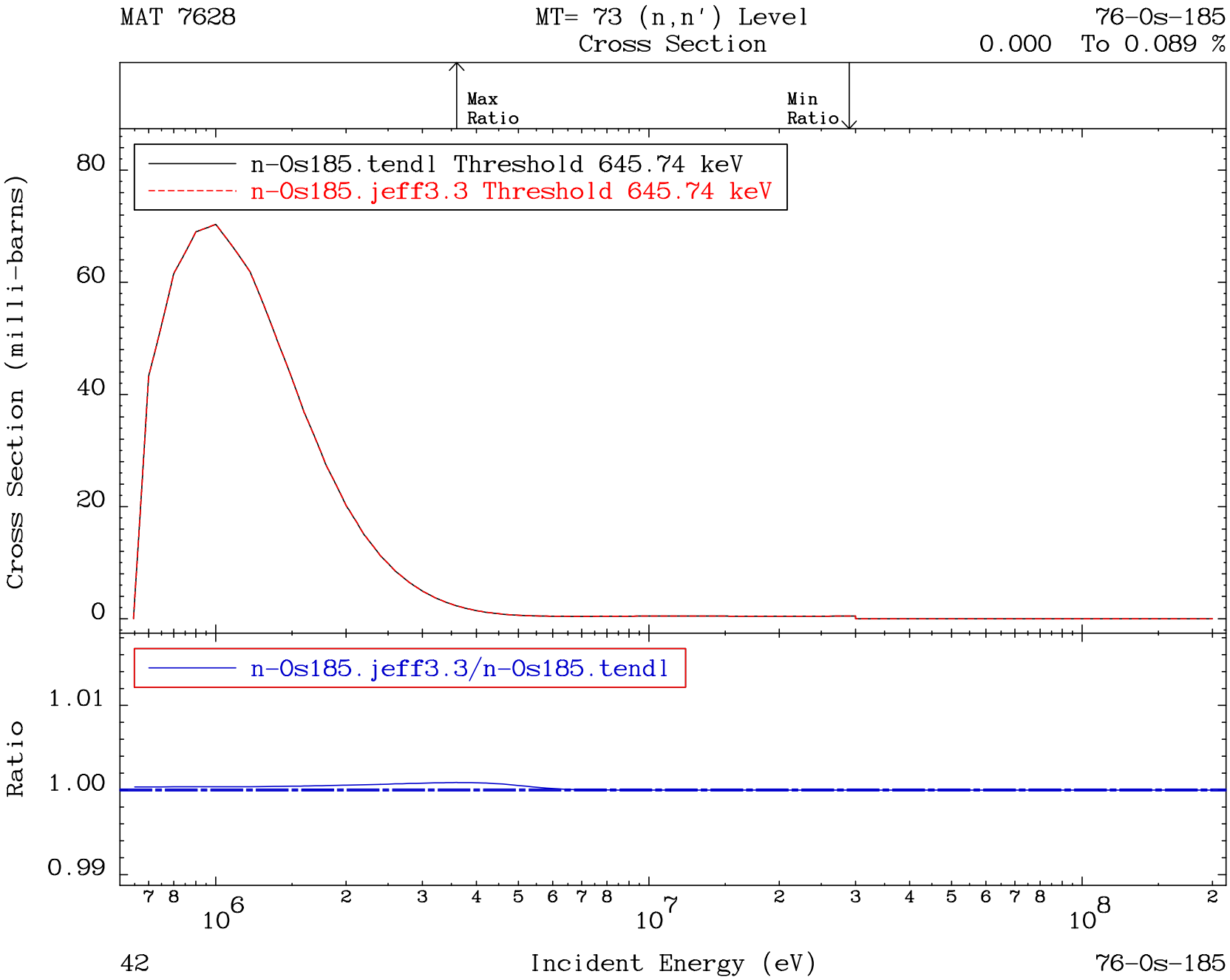

MAT 7628
MT= 68 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.558 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 542.34 keV
n-0s185.jeff3.3 Threshold 542.34 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
37
Incident Energy (eV)
76-0s-185

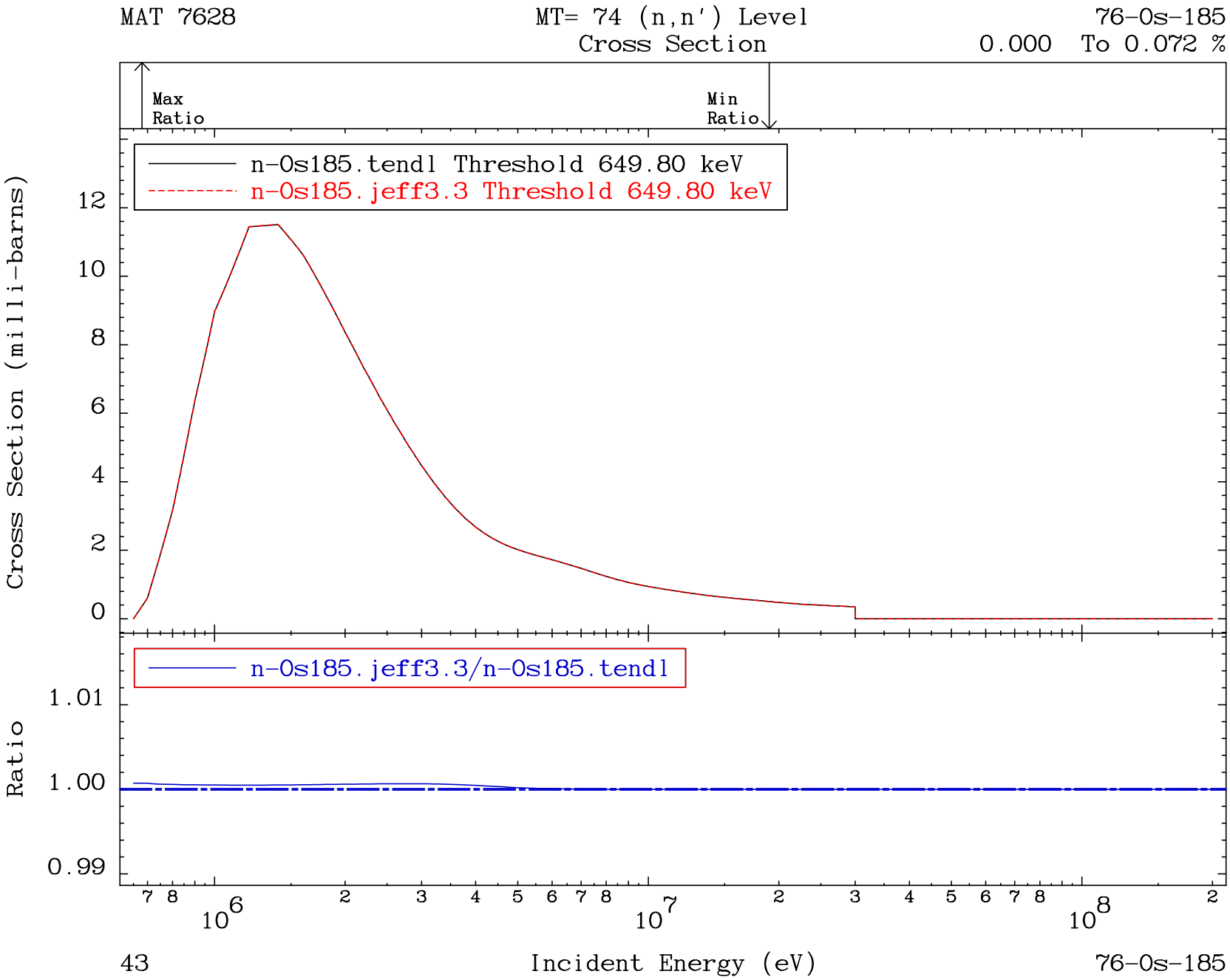

MAT 7628
MT= 69 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.559 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 593.53 keV
n-0s185.jeff3.3 Threshold 593.53 keV
Cross Section (micro-barns)
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
38
Incident Energy (eV)
76-0s-185

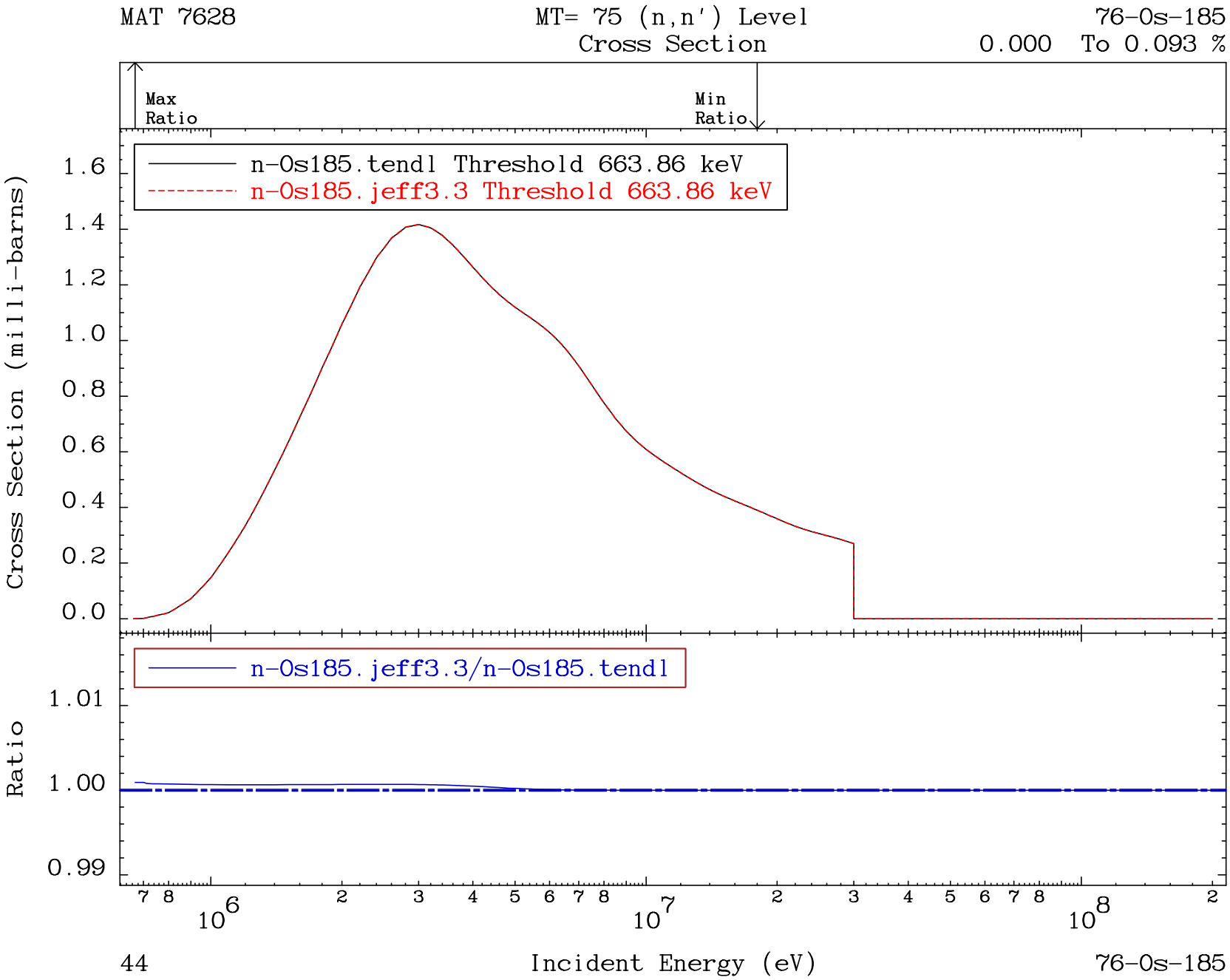

MAT 7628
MT= 70 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.158 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 598.37 keV
n-0s185.jeff3.3 Threshold 598.37 keV
Cross Section (milli-barns)
0
1
2
3
4
n-0s185.jeff3.3/n-0s185.tendl
Ratio
0.99
1.00
1.01
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
39
76-0s-185

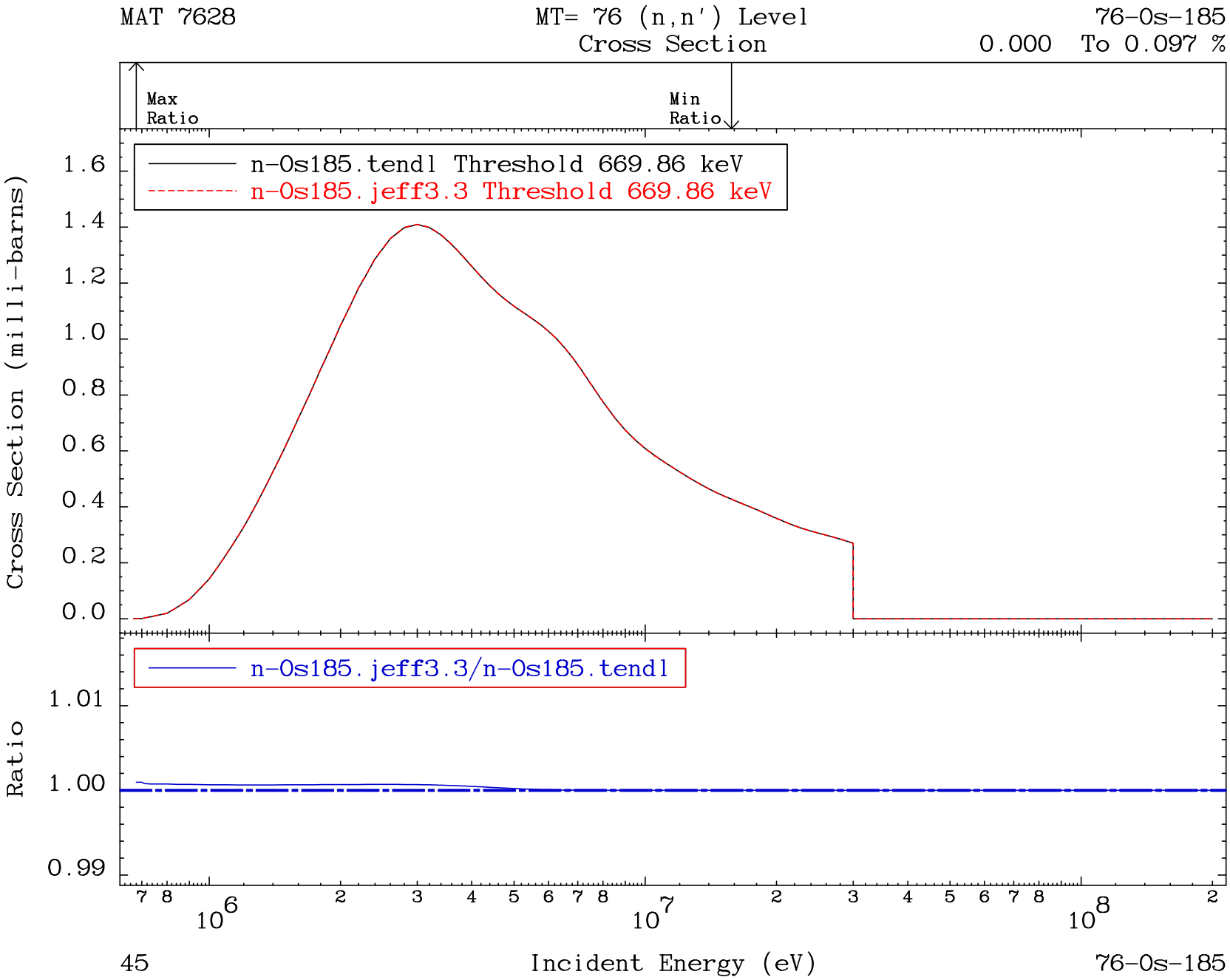

MAT 7628
MT= 71 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.089 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 602.27 keV
n-0s185.jeff3.3 Threshold 602.27 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
76-0s-185

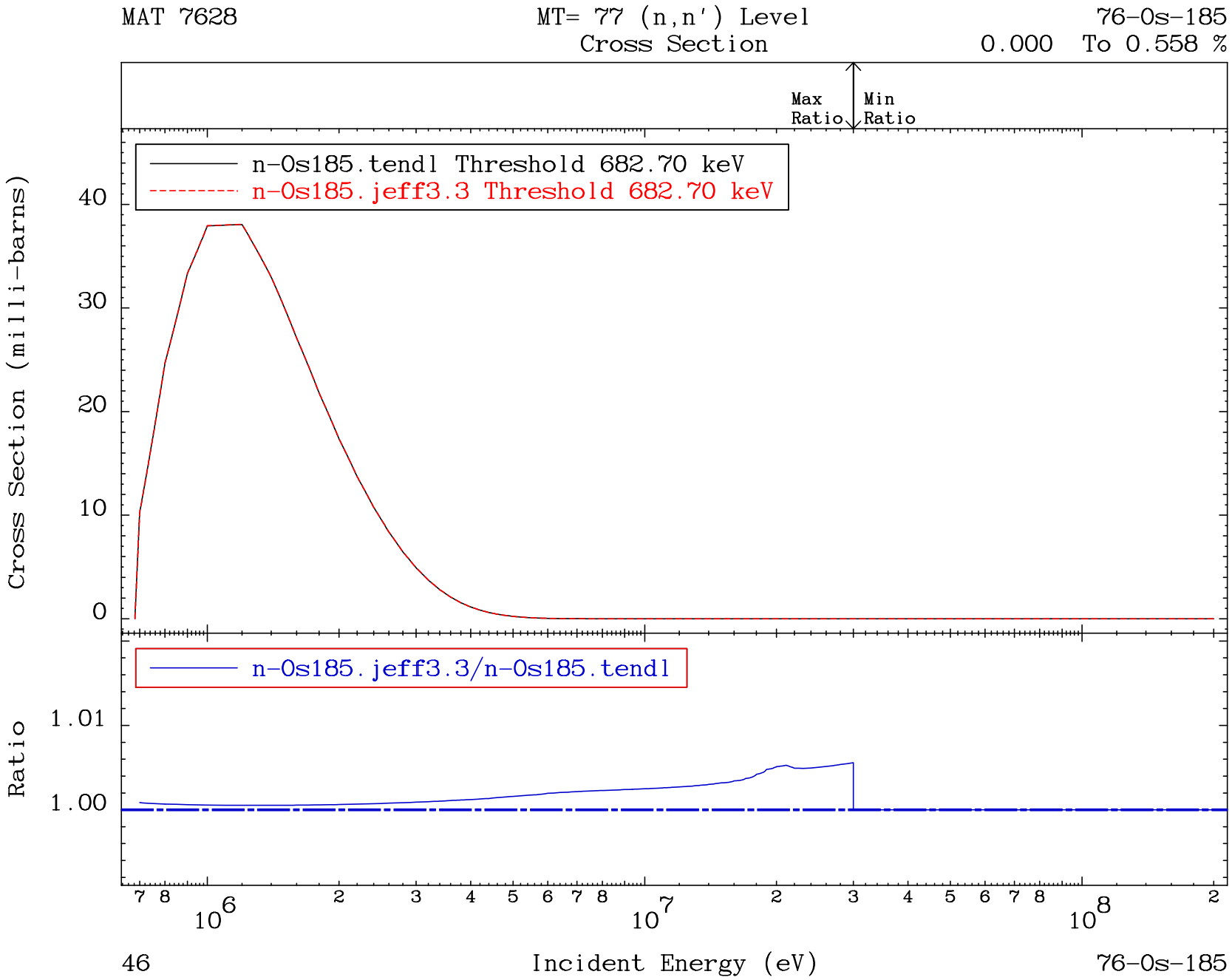

MAT 7628
MT= 72 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.090 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 630.12 keV
n-0s185.jeff3.3 Threshold 630.12 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
41
Incident Energy (eV)
76-0s-185

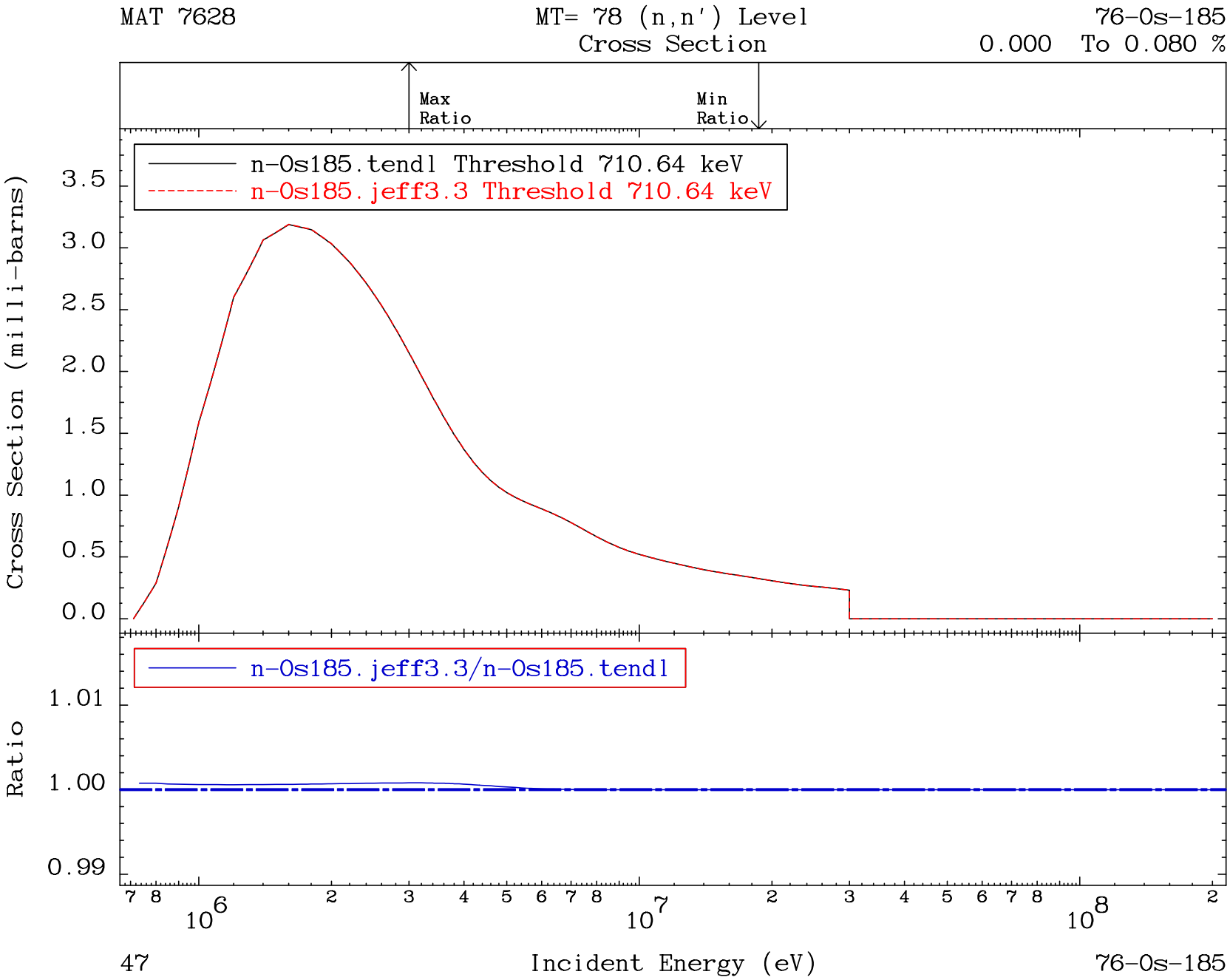

MAT 7628
MT= 73 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.089 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 645.74 keV
n-0s185.jeff3.3 Threshold 645.74 keV
Cross Section (milli-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
42
Incident Energy (eV)
76-0s-185

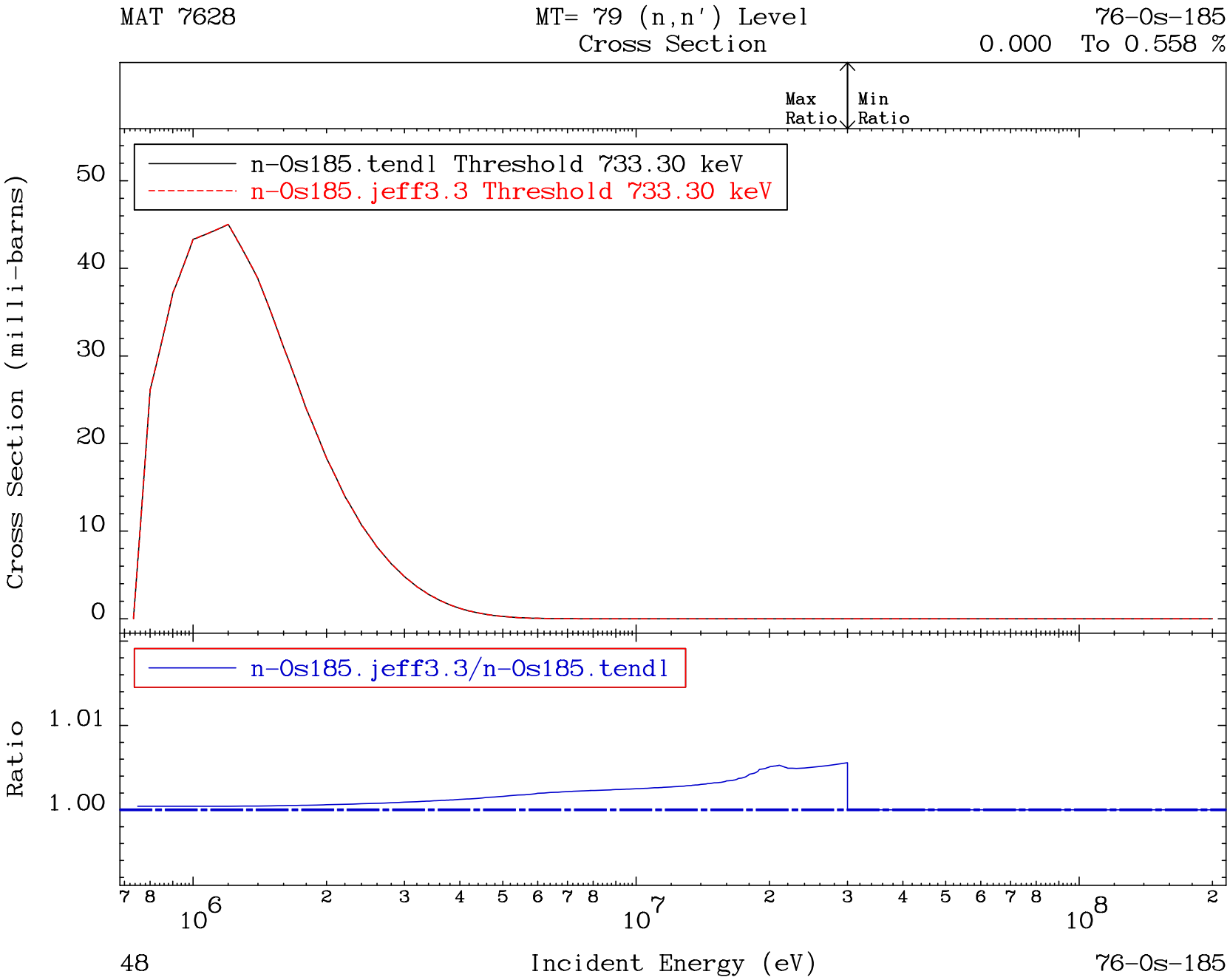

MAT 7628
MT= 74 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.072 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 649.80 keV
n-0s185.jeff3.3 Threshold 649.80 keV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
43
Incident Energy (eV)
76-0s-185

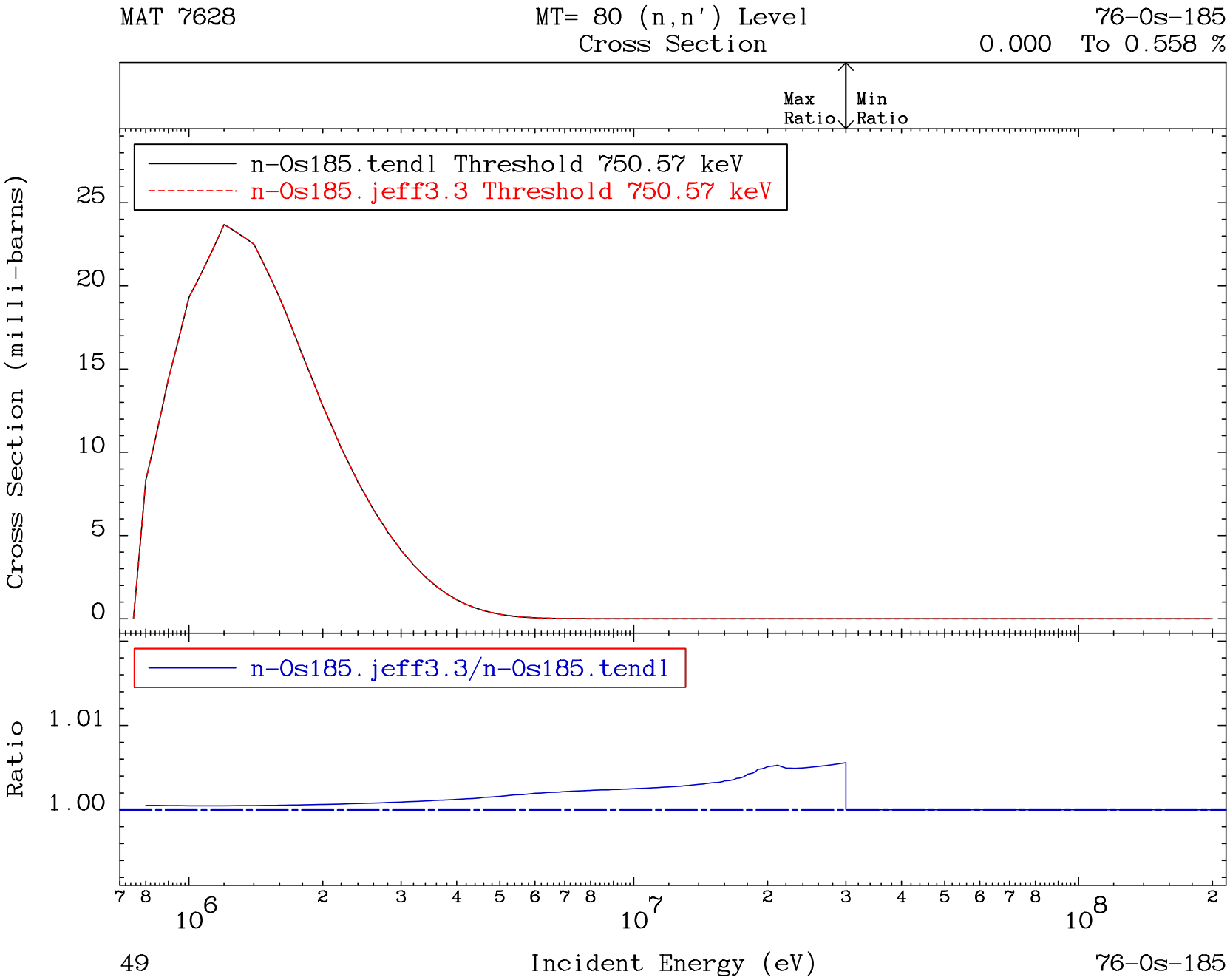

MAT 7628
MT= 75 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.093 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 663.86 keV
n-0s185.jeff3.3 Threshold 663.86 keV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
76-0s-185

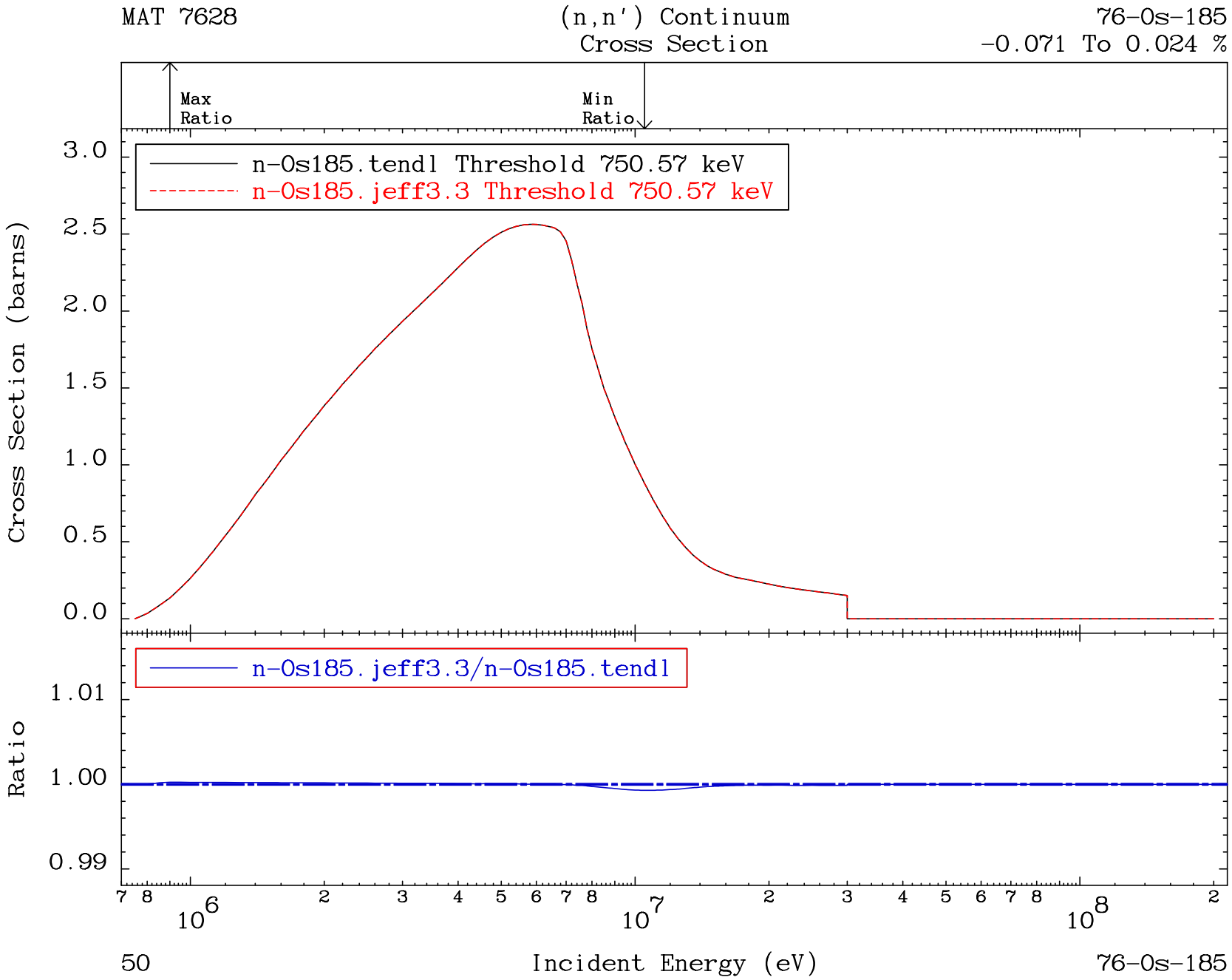

MAT 7628
MT= 76 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.097 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 669.86 keV
n-0s185.jeff3.3 Threshold 669.86 keV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
45
Incident Energy (eV)
76-0s-185

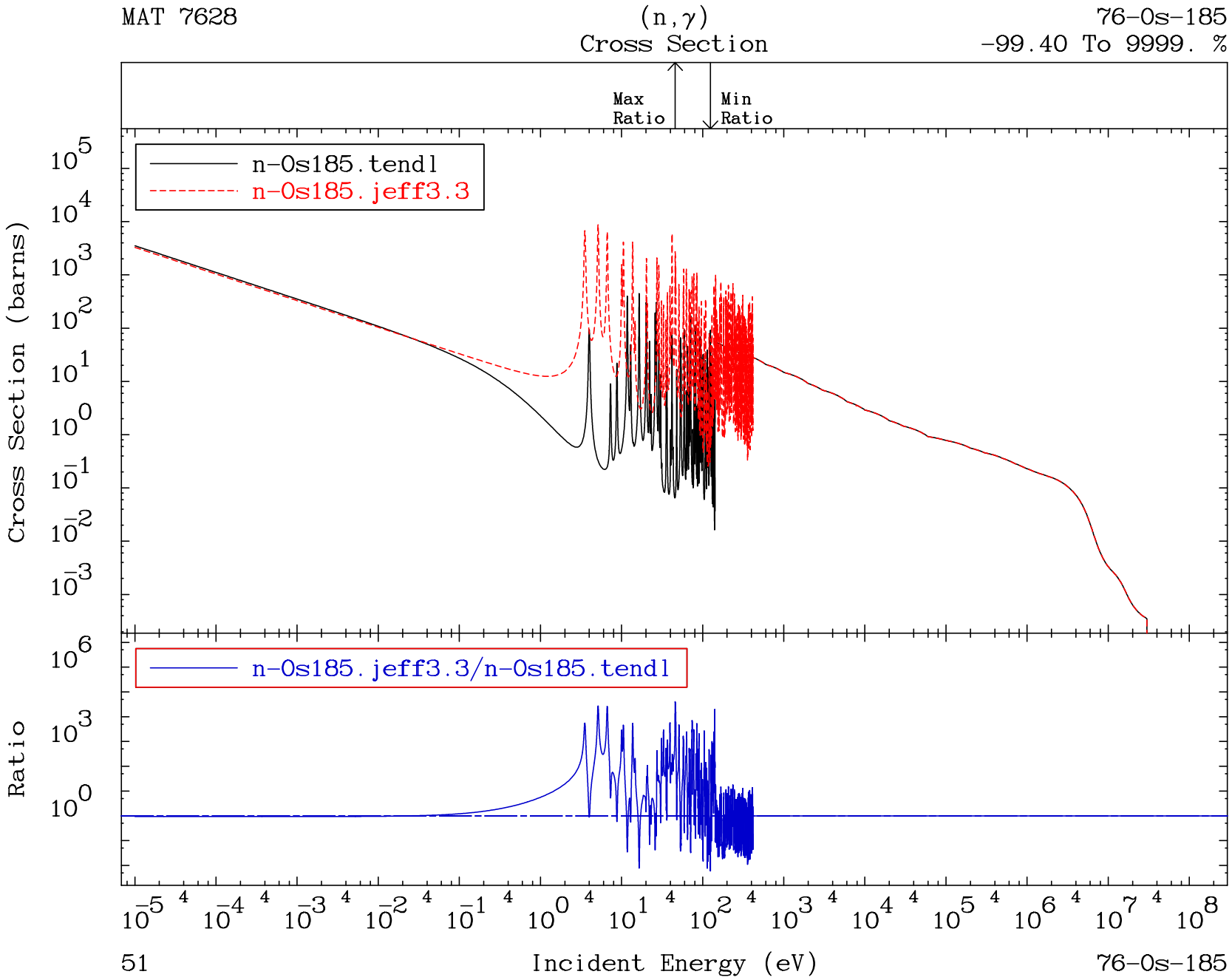

MAT 7628
MT= 77 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.558 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 682.70 keV
n-0s185.jeff3.3 Threshold 682.70 keV
Cross Section (milli-barns)
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
76-0s-185

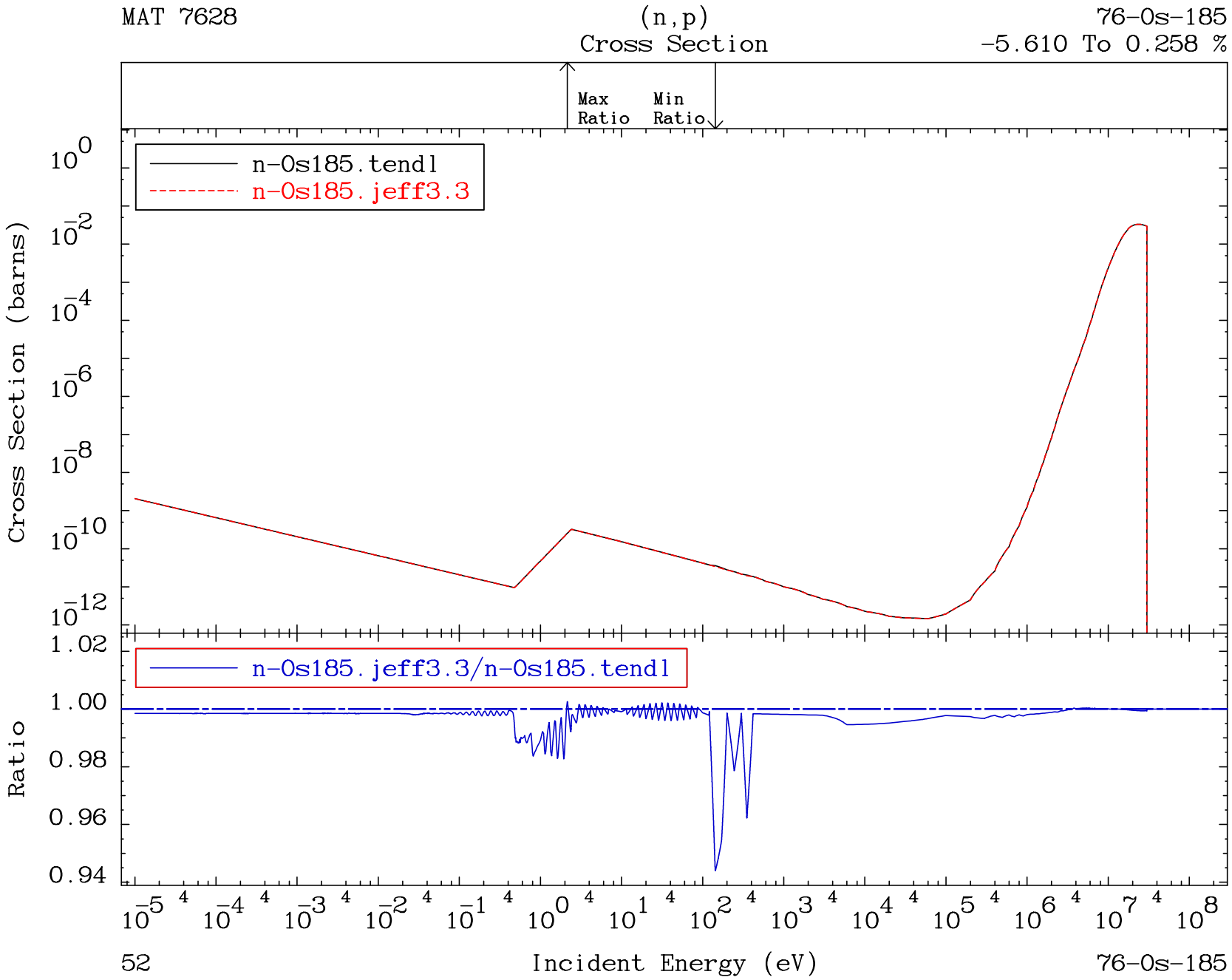

MAT 7628
MT= 78 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.080 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 710.64 keV
n-0s185.jeff3.3 Threshold 710.64 keV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
47
Incident Energy (eV)
76-0s-185

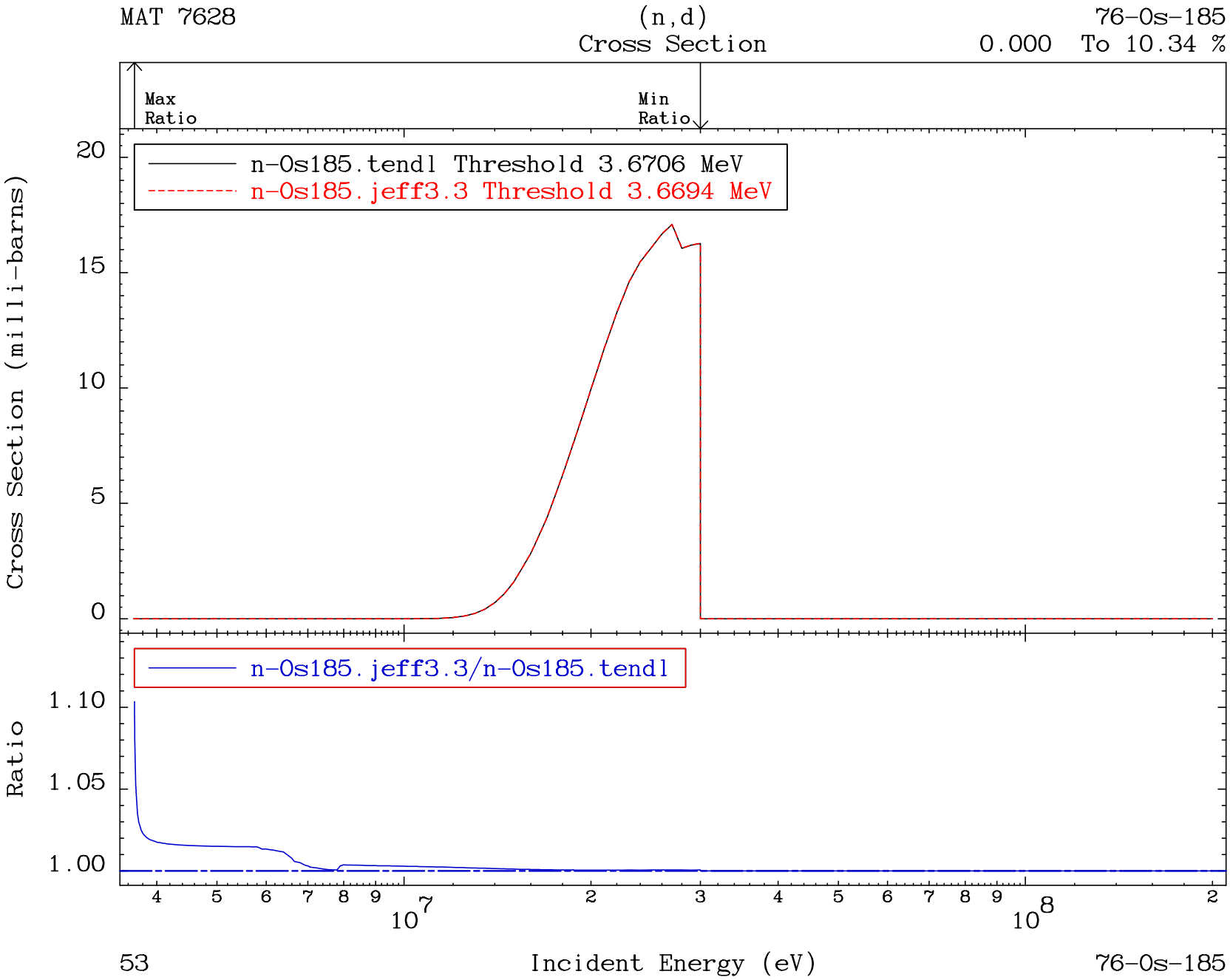

MAT 7628
MT= 79 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.558 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 733.30 keV
n-0s185.jeff3.3 Threshold 733.30 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
48
Incident Energy (eV)
76-0s-185

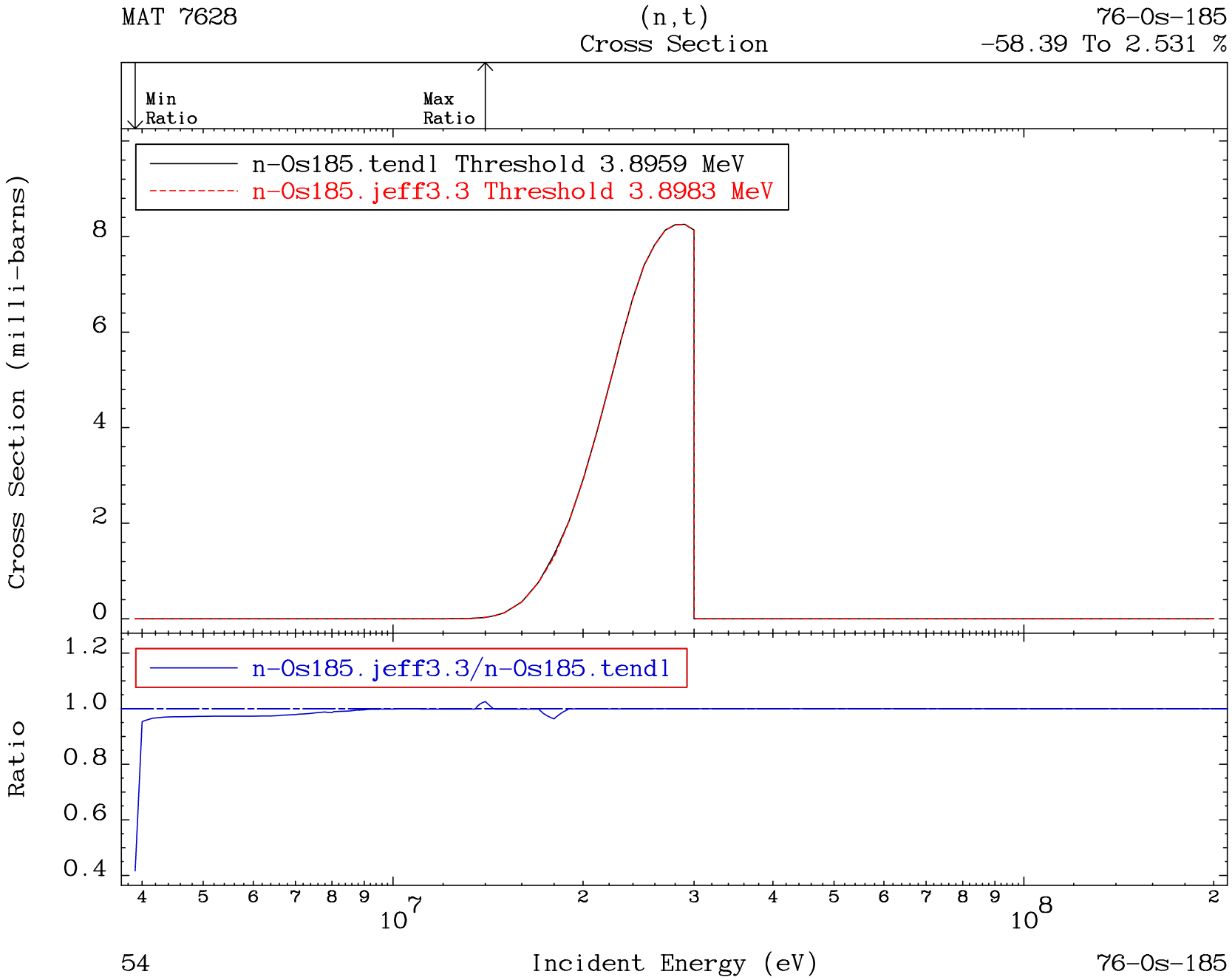

MAT 7628
MT= 80 (n,n') Level
Cross Section
76-0s-185
0.000 To 0.558 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 750.57 keV
n-0s185.jeff3.3 Threshold 750.57 keV
Cross Section (milli-barns)
25
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
49
Incident Energy (eV)
76-0s-185

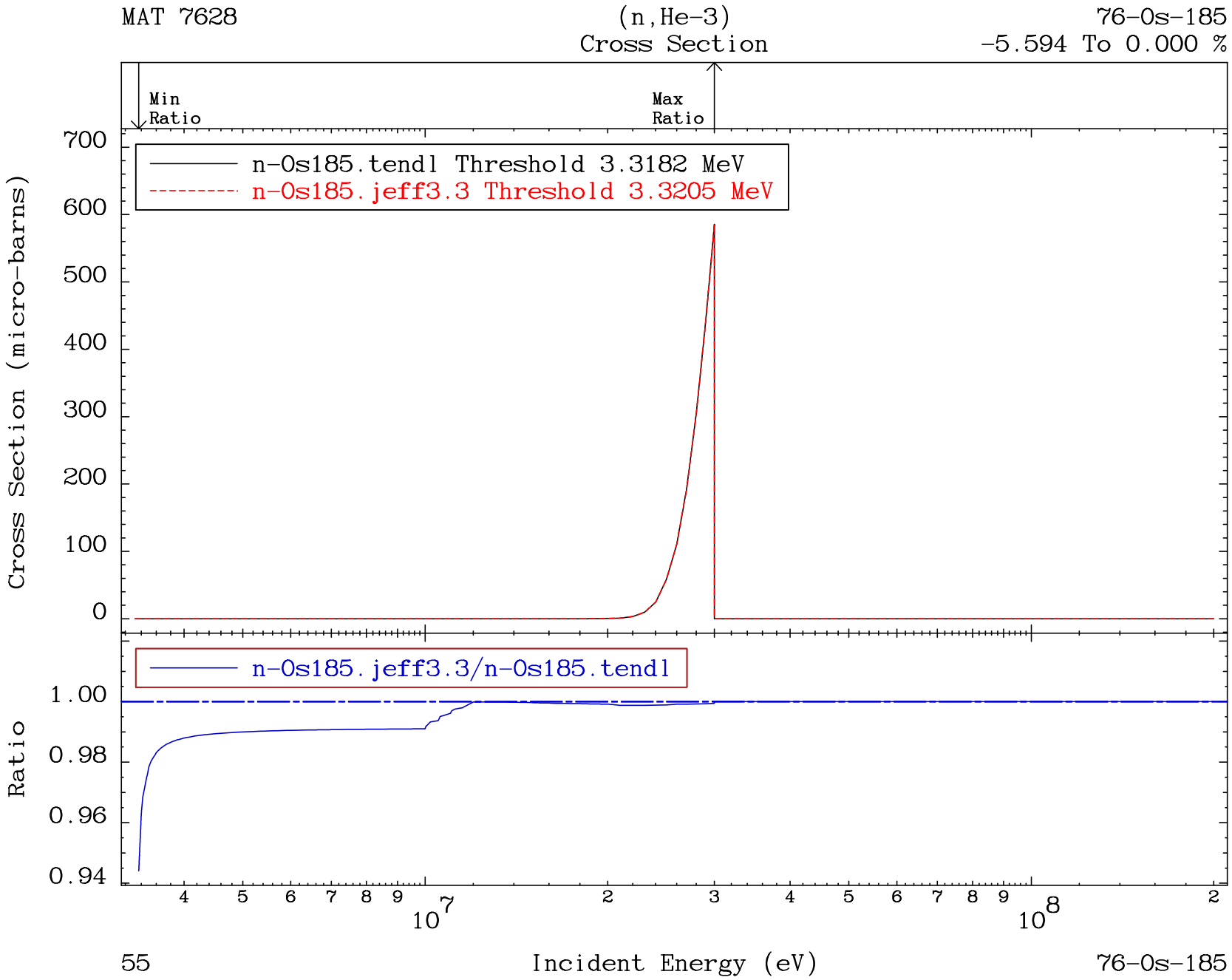

MAT 7628
(n,n') Continuum
Cross Section
76-0s-185
-0.071 To 0.024 %
Max
Ratio
Min
Ratio
n-0s185.tendl Threshold 750.57 keV
n-0s185.jeff3.3 Threshold 750.57 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
50
Incident Energy (eV)
76-0s-185

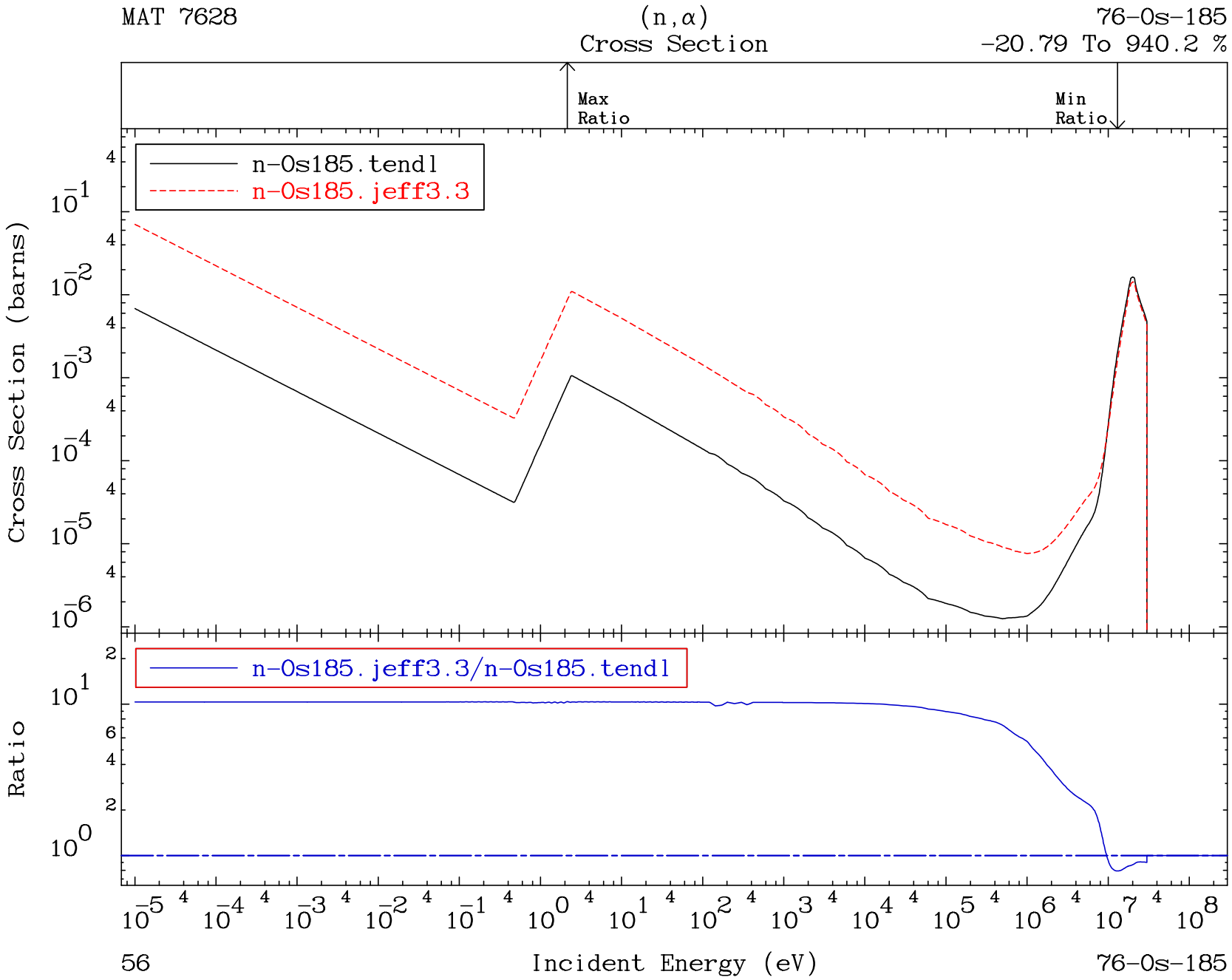

MAT 7628
(n,γ)
Cross Section
76-0s-185
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
51
76-0s-185

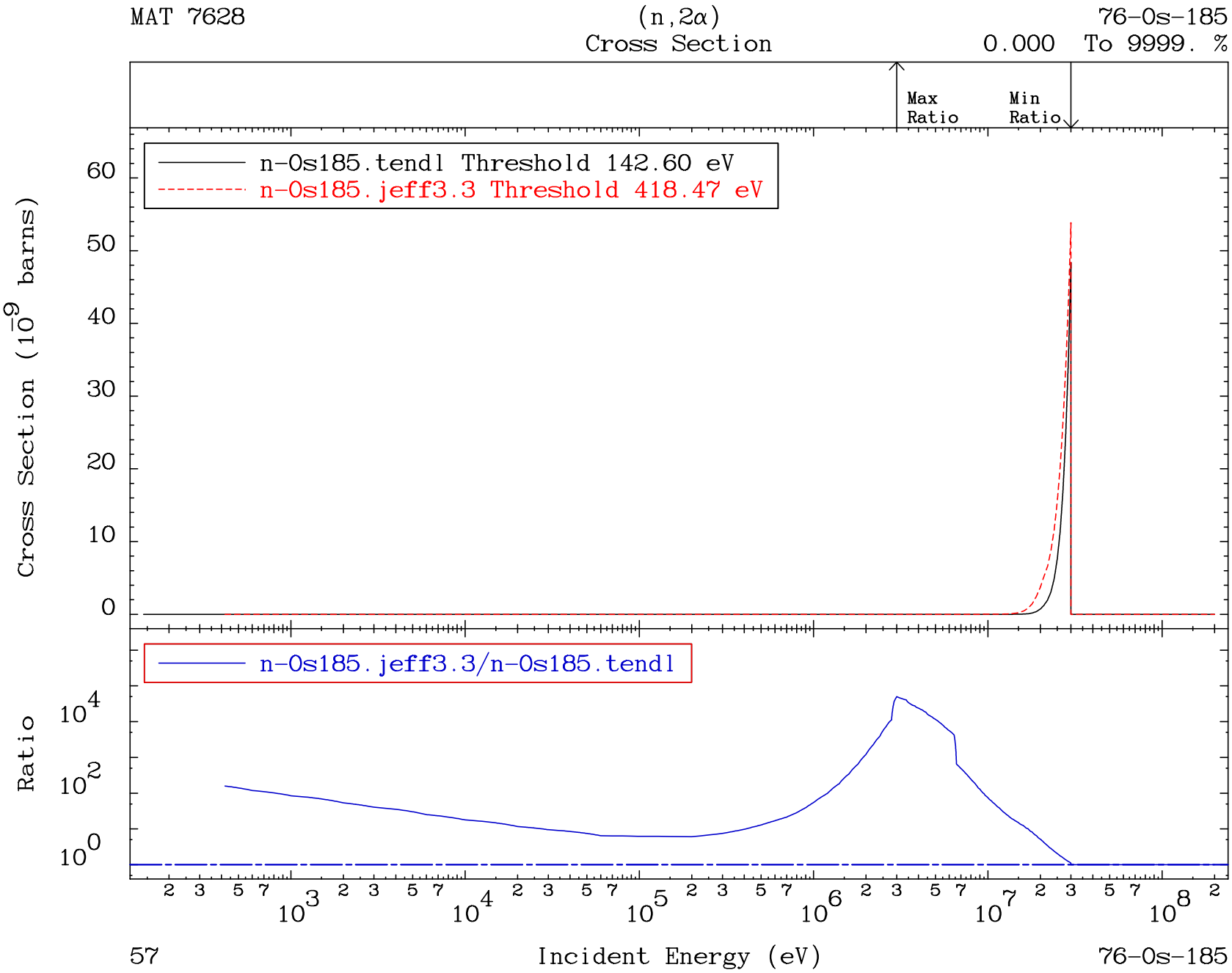

MAT 7628
(n,p)
Cross Section
76-0s-185
-5.610 To 0.258 %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
52
76-0s-185

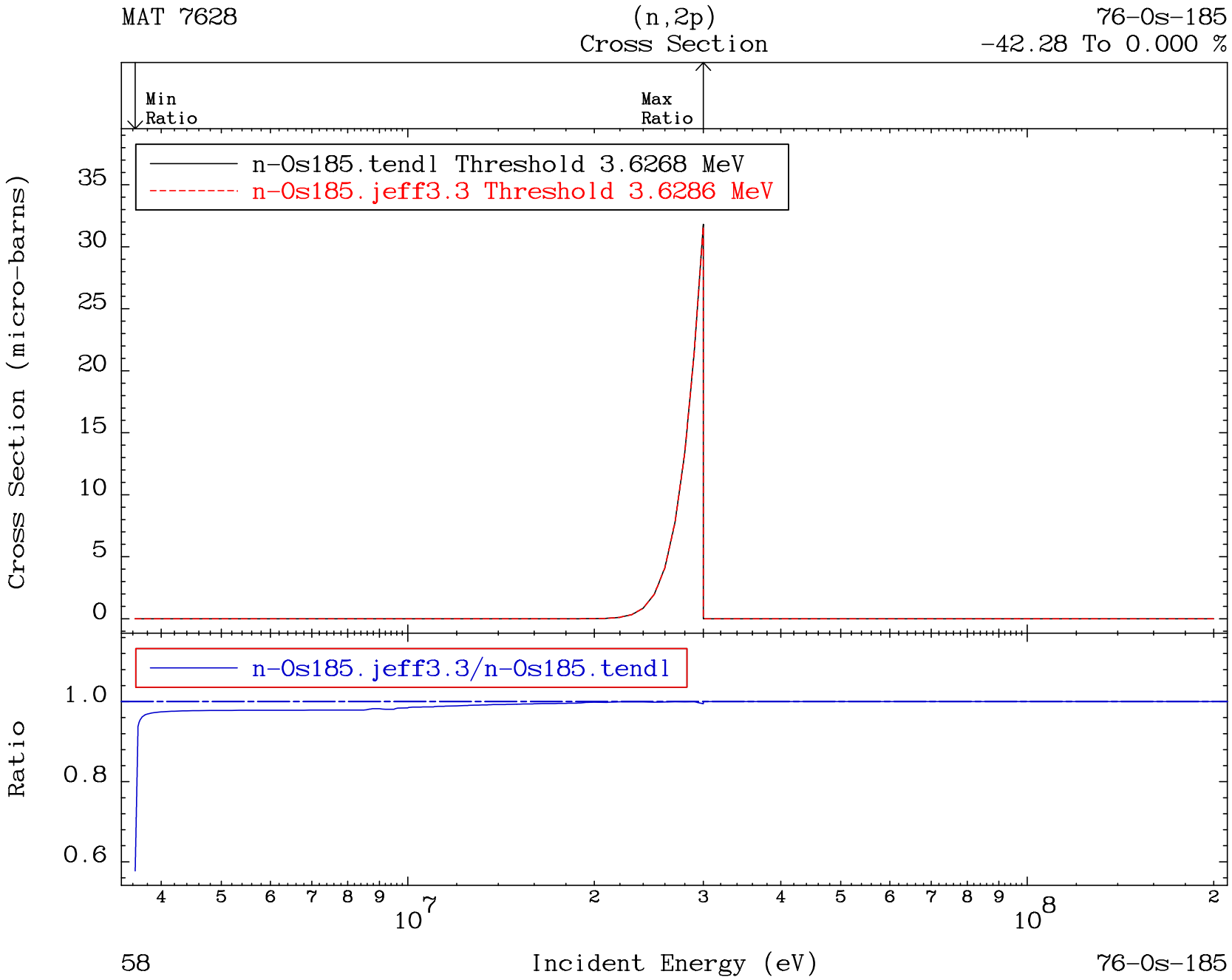

MAT 7628
(n,d)
Cross Section
76-0s-185
0.000 To 10.34 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 3.6706 MeV
n-0s185.jeff3.3 Threshold 3.6694 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.10
1.05
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
76-0s-185

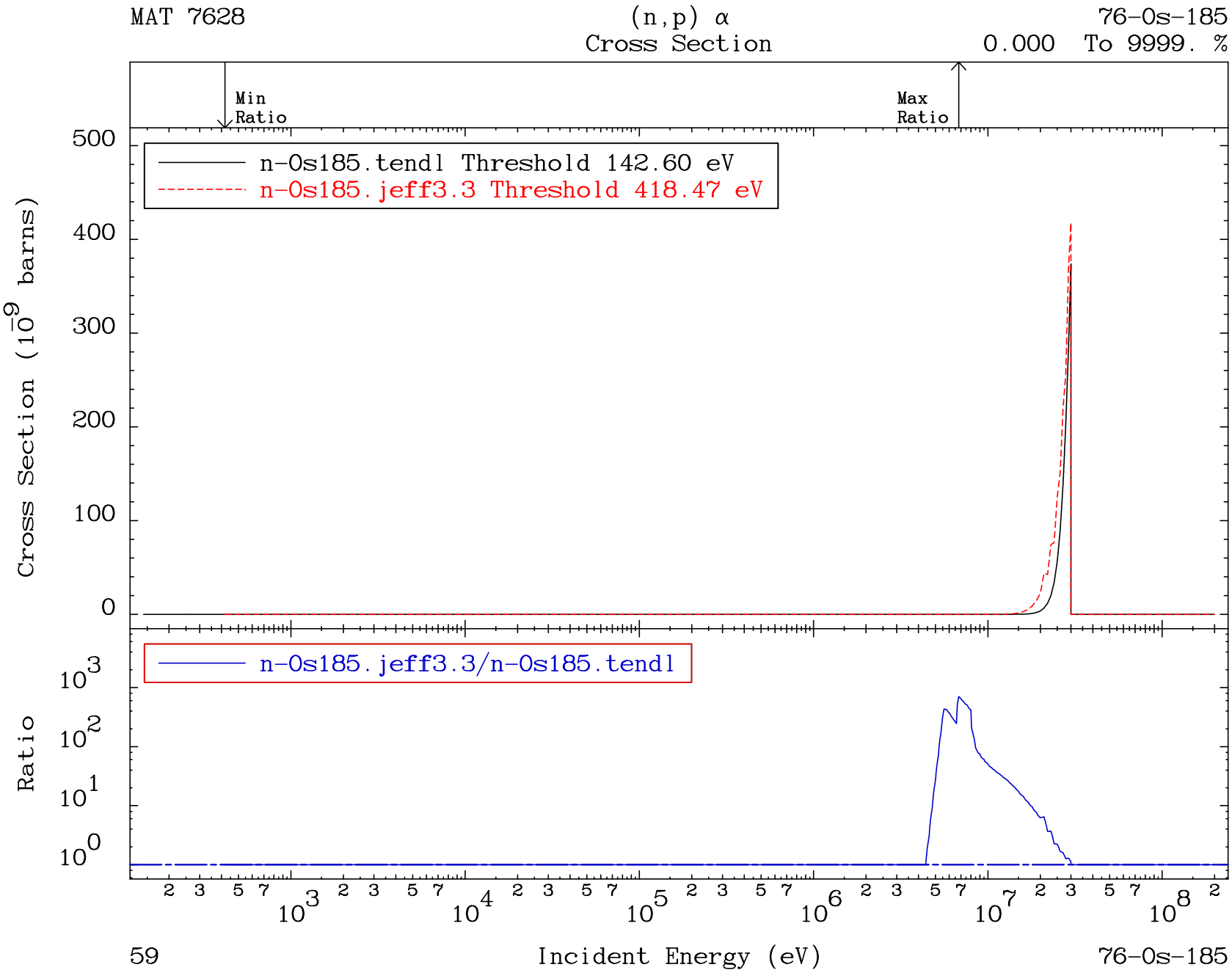

MAT 7628
(n,t)
Cross Section
76-0s-185
-58.39 To 2.531 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 3.8959 MeV
n-0s185.jeff3.3 Threshold 3.8983 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-0s185.jeff3.3/n-0s185.tendl
Ratio
0.4
0.6
0.8
1.0
1.2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
76-0s-185

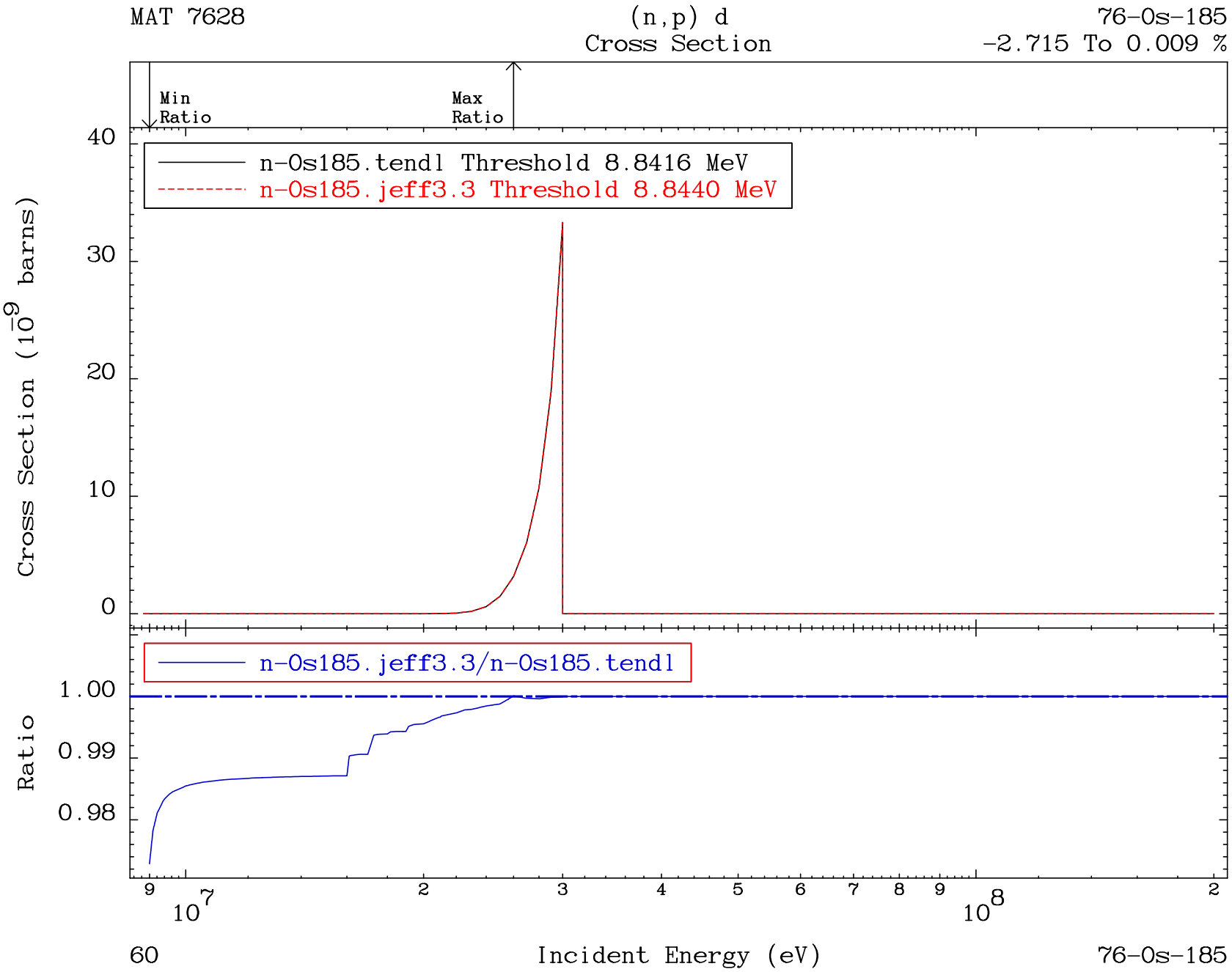

MAT 7628
(n,He-3)
Cross Section
76-0s-185
-5.594 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 3.3182 MeV
n-0s185.jeff3.3 Threshold 3.3205 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
0.94
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
55
Incident Energy (eV)
76-0s-185

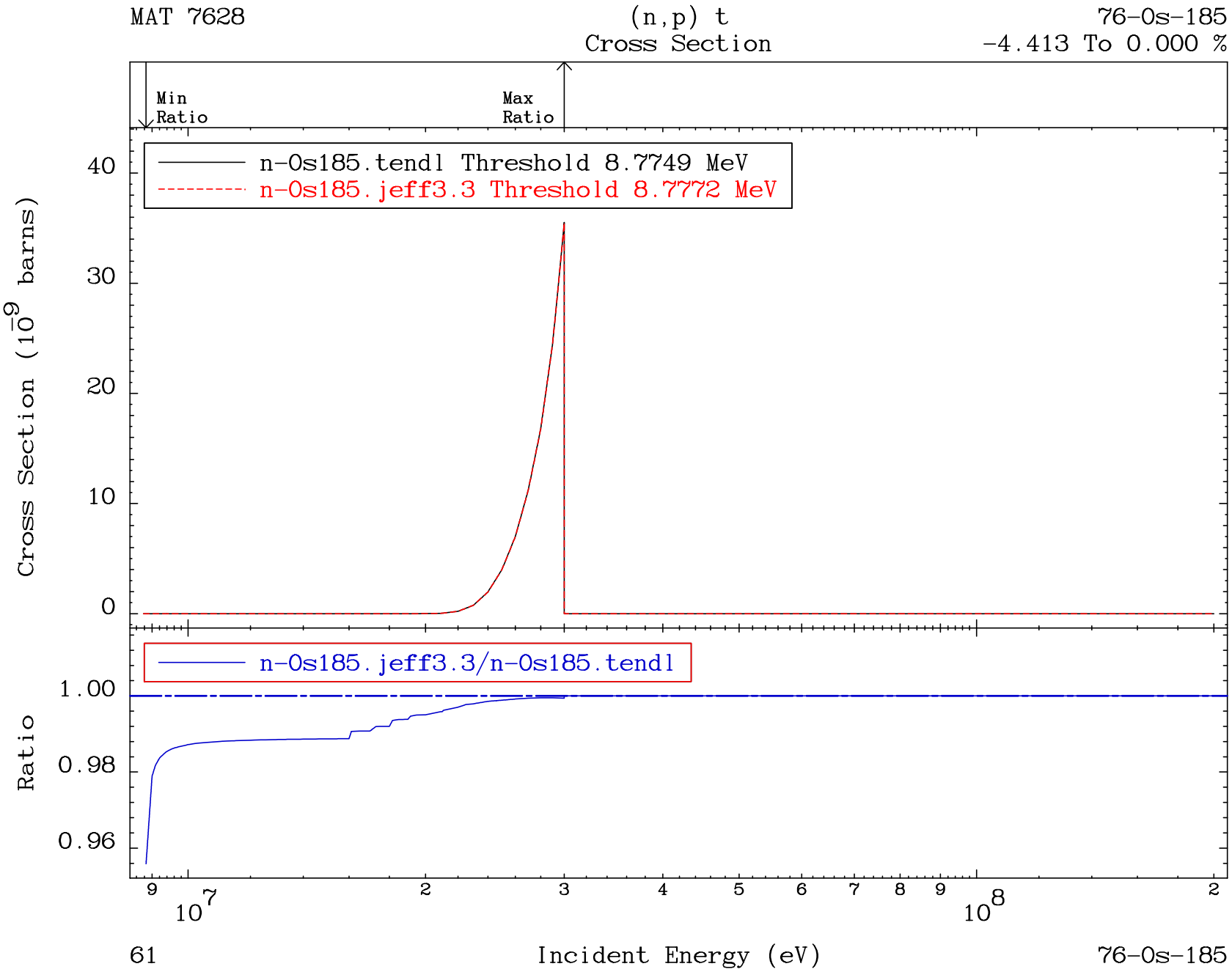

MAT 7628
(n,α)
Cross Section
76-0s-185
-20.79 To 940.2 %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
56
76-0s-185

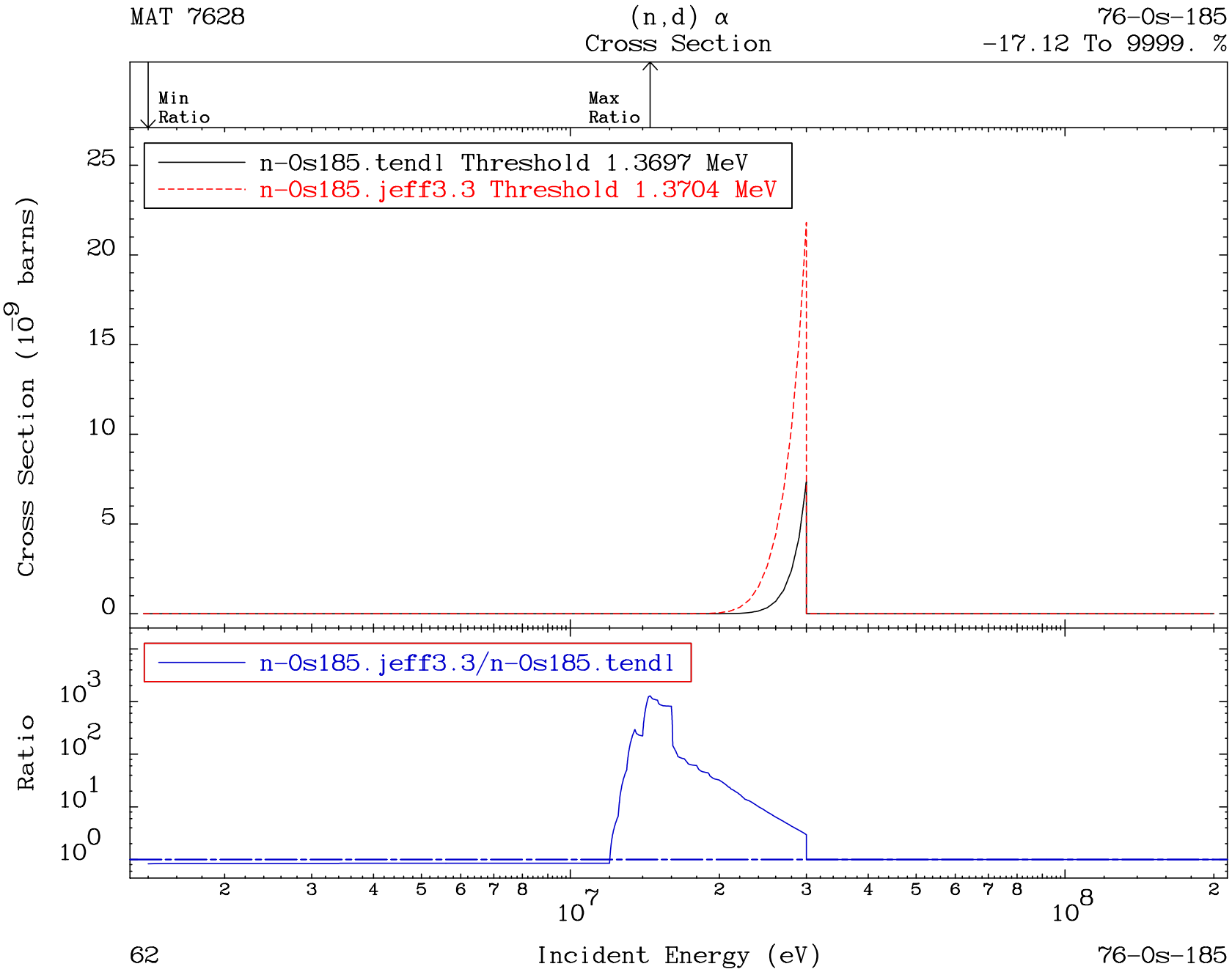

MAT 7628
(n,2α)
Cross Section
76-0s-185
0.000 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 142.60 eV
n-0s185.jeff3.3 Threshold 418.47 eV
Cross Section (10^-9 barns)
60
50
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^4
10^2
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
57
Incident Energy (eV)
76-0s-185

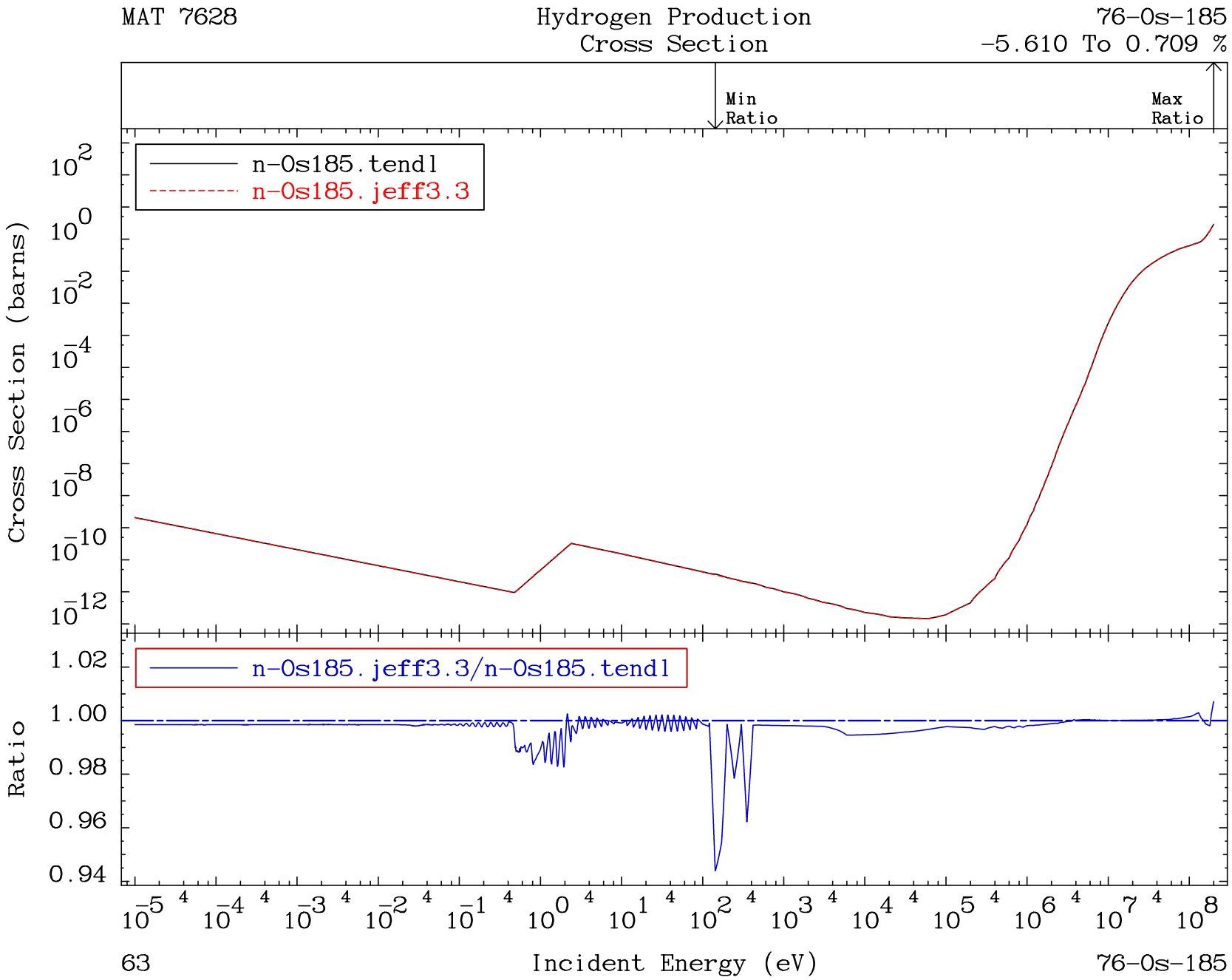

MAT 7628
(n,2p)
Cross Section
76-0s-185
-42.28 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 3.6268 MeV
n-0s185.jeff3.3 Threshold 3.6286 MeV
Cross Section (micro-barns)
35
30
25
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.0
0.8
0.6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
58
Incident Energy (eV)
76-0s-185

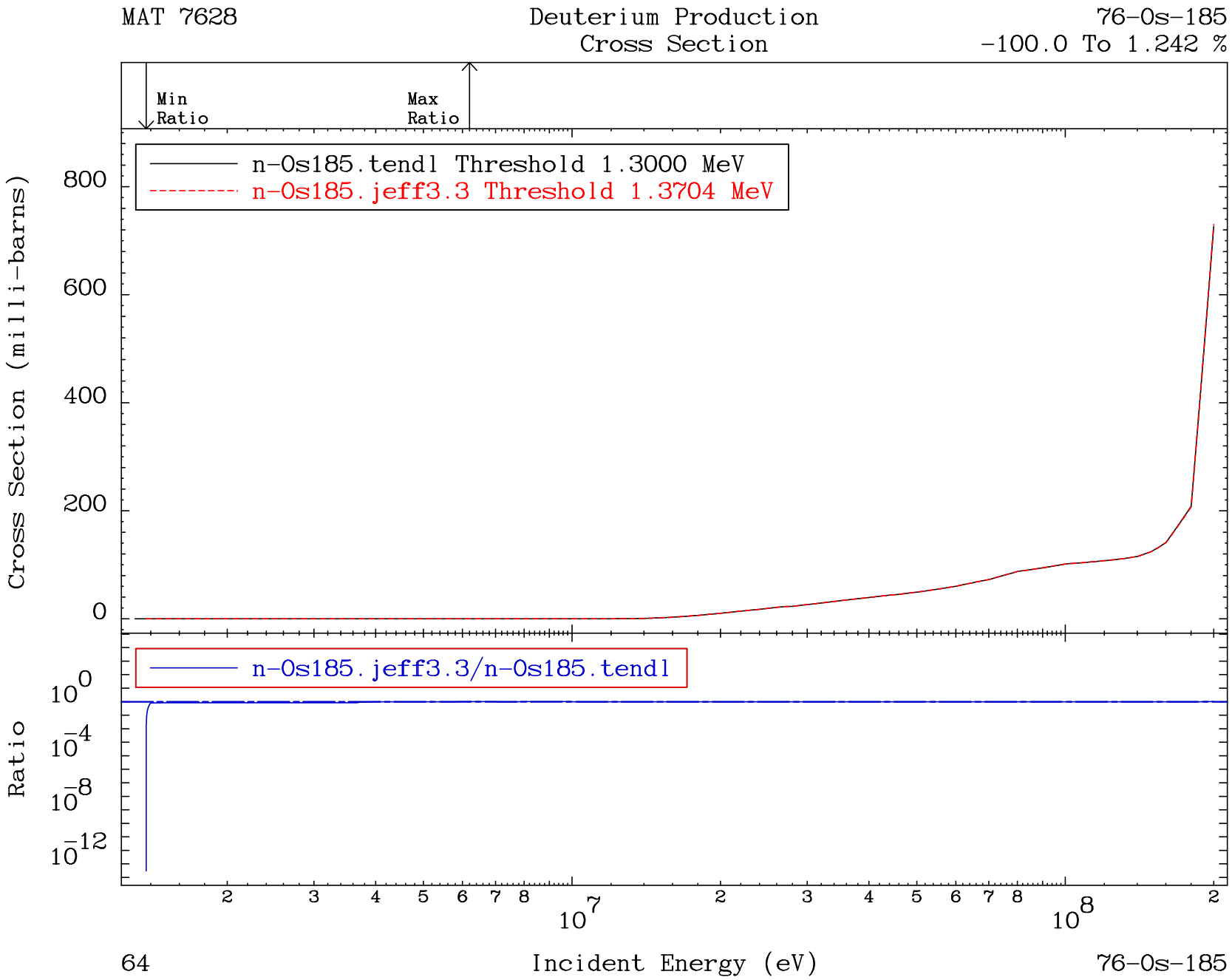

MAT 7628
(n,p) α
Cross Section
76-0s-185
0.000 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 142.60 eV
n-0s185.jeff3.3 Threshold 418.47 eV
Cross Section (10^-9 barns)
500
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 5 7 10^3 2 3 5 7 10^4 2 3 5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
59
Incident Energy (eV)
76-0s-185

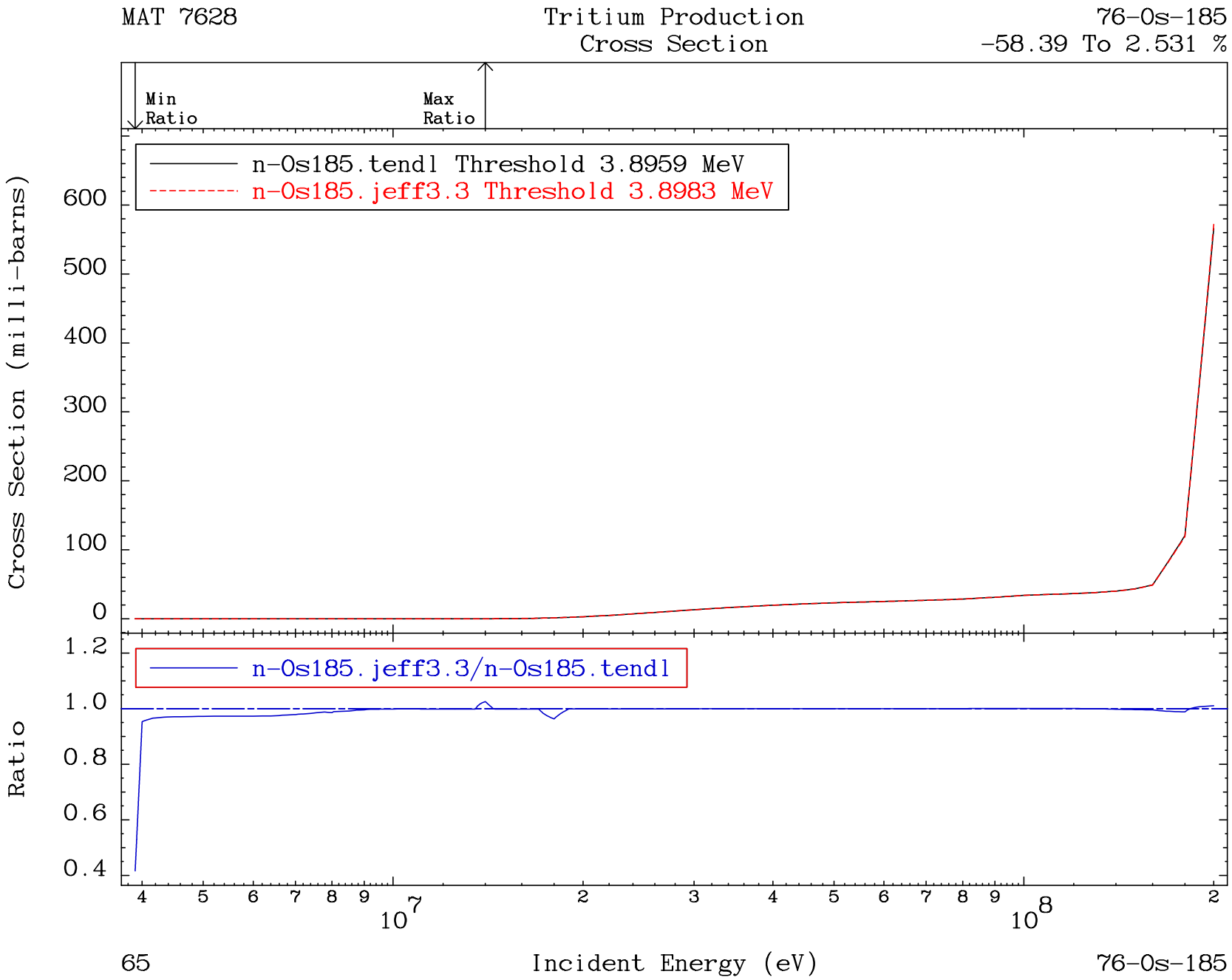

MAT 7628
(n,p) d
Cross Section
76-0s-185
-2.715 To 0.009 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 8.8416 MeV
n-0s185.jeff3.3 Threshold 8.8440 MeV
Cross Section (10^-9 barns)
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.99
0.98
9
10^7
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
76-0s-185

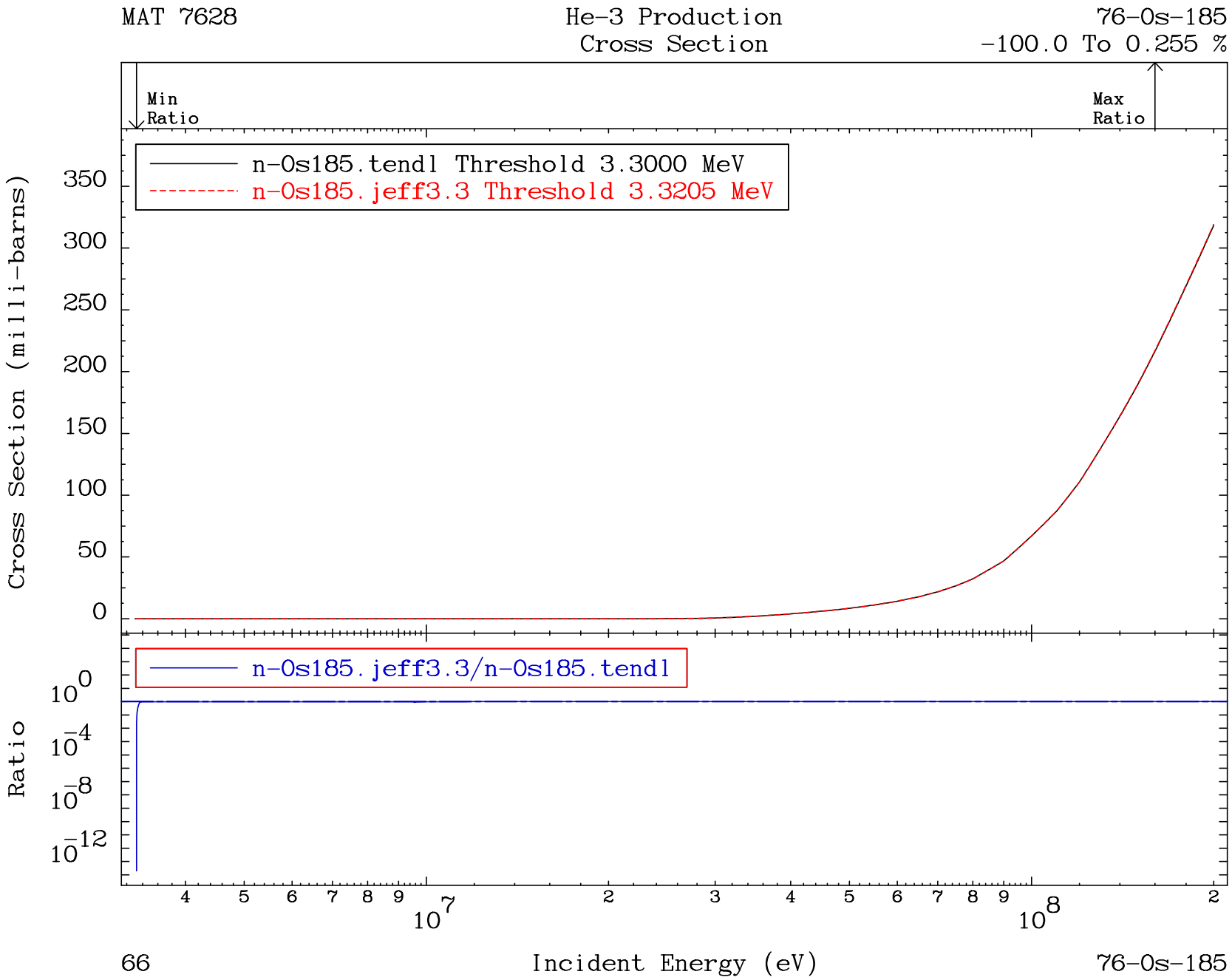

MAT 7628
(n,p) t
Cross Section
76-0s-185
-4.413 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 8.7749 MeV
n-0s185.jeff3.3 Threshold 8.7772 MeV
Cross Section (10^-9 barns)
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
9
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
76-0s-185

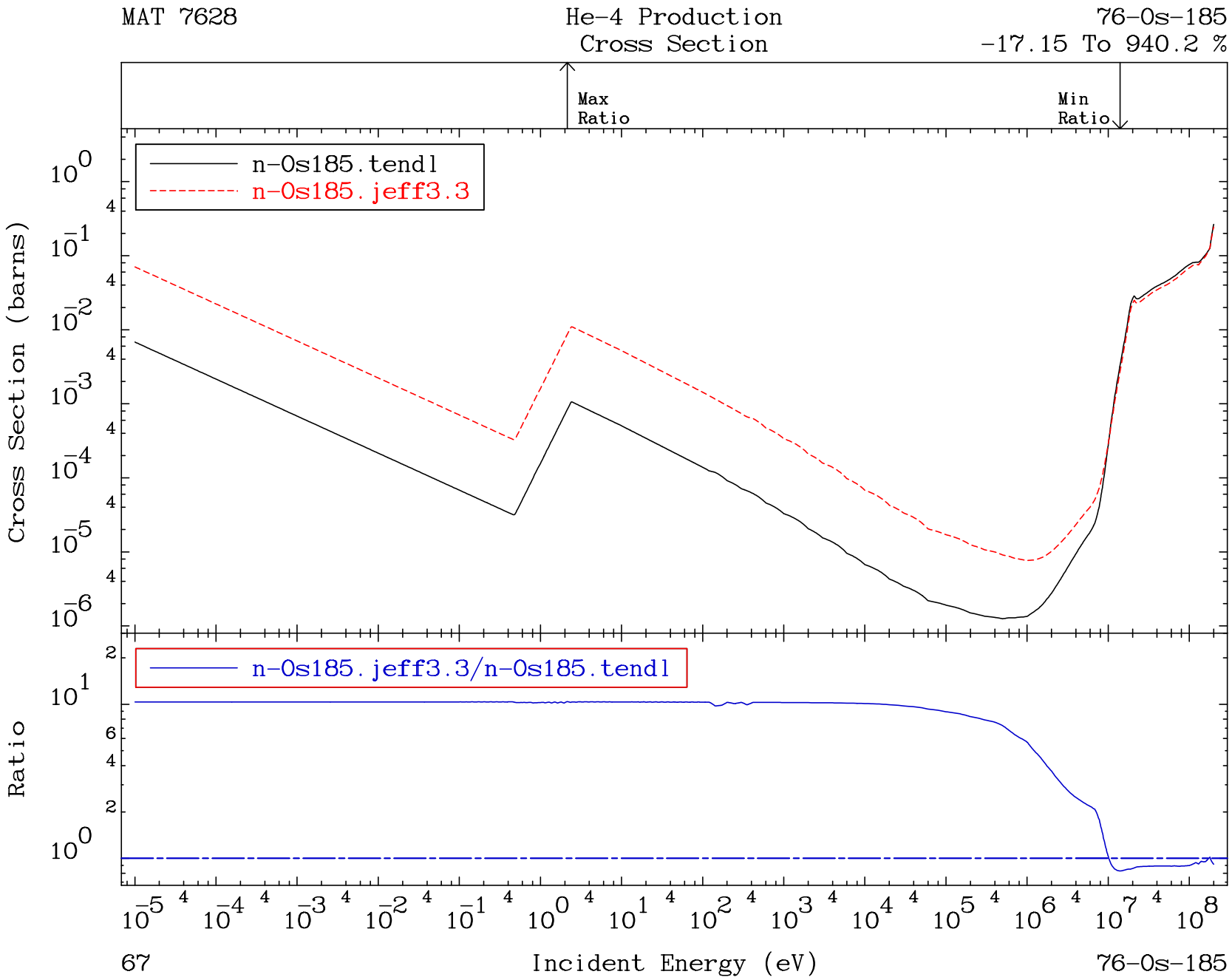

MAT 7628
(n,d) α
Cross Section
76-0s-185
-17.12 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 1.3697 MeV
n-0s185.jeff3.3 Threshold 1.3704 MeV
Cross Section (10^{-9} barns)
25
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
62
Incident Energy (eV)
76-0s-185

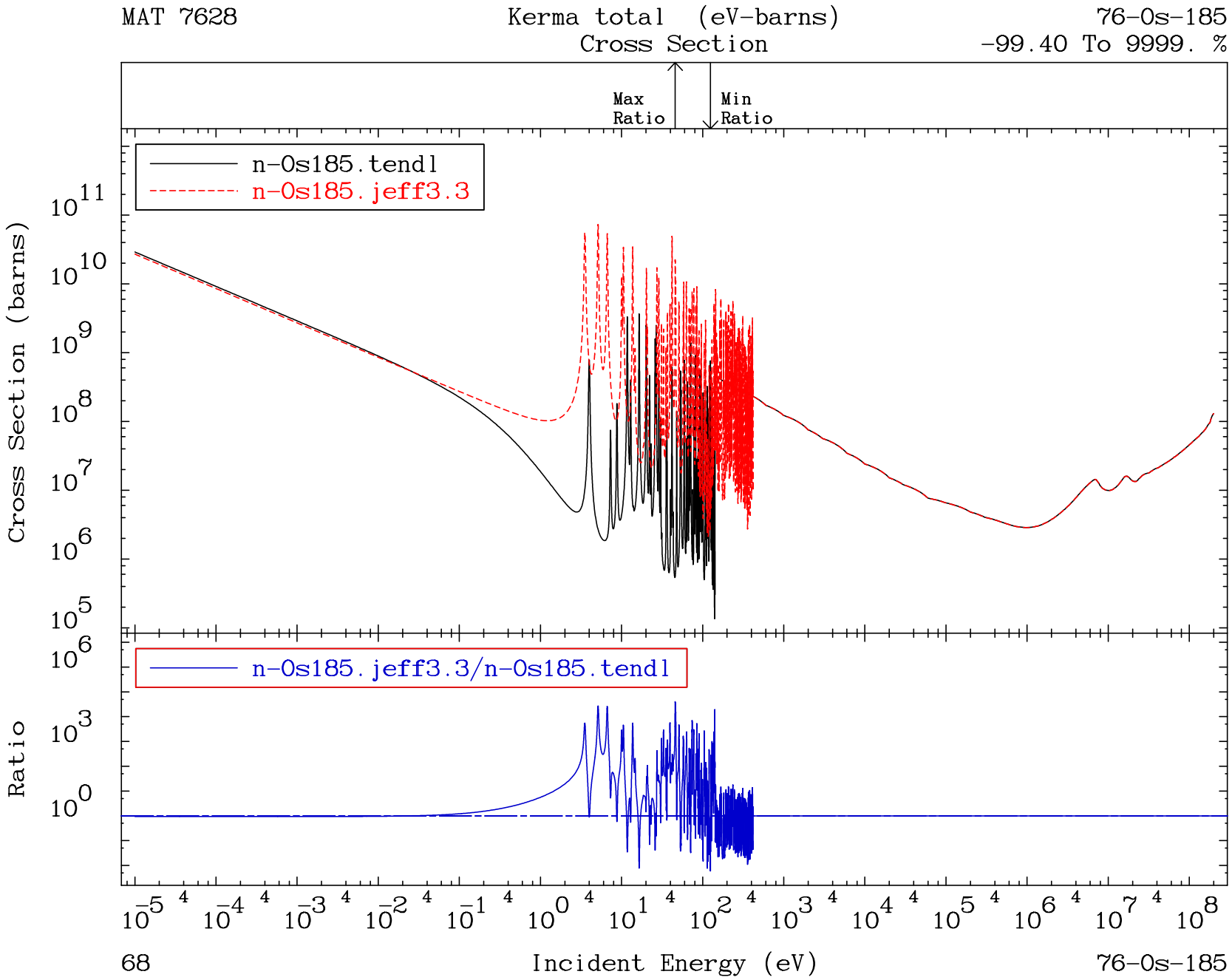

MAT 7628
Hydrogen Production
Cross Section
76-0s-185
-5.610 To 0.709 %
Min Ratio
Max Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
63
76-0s-185

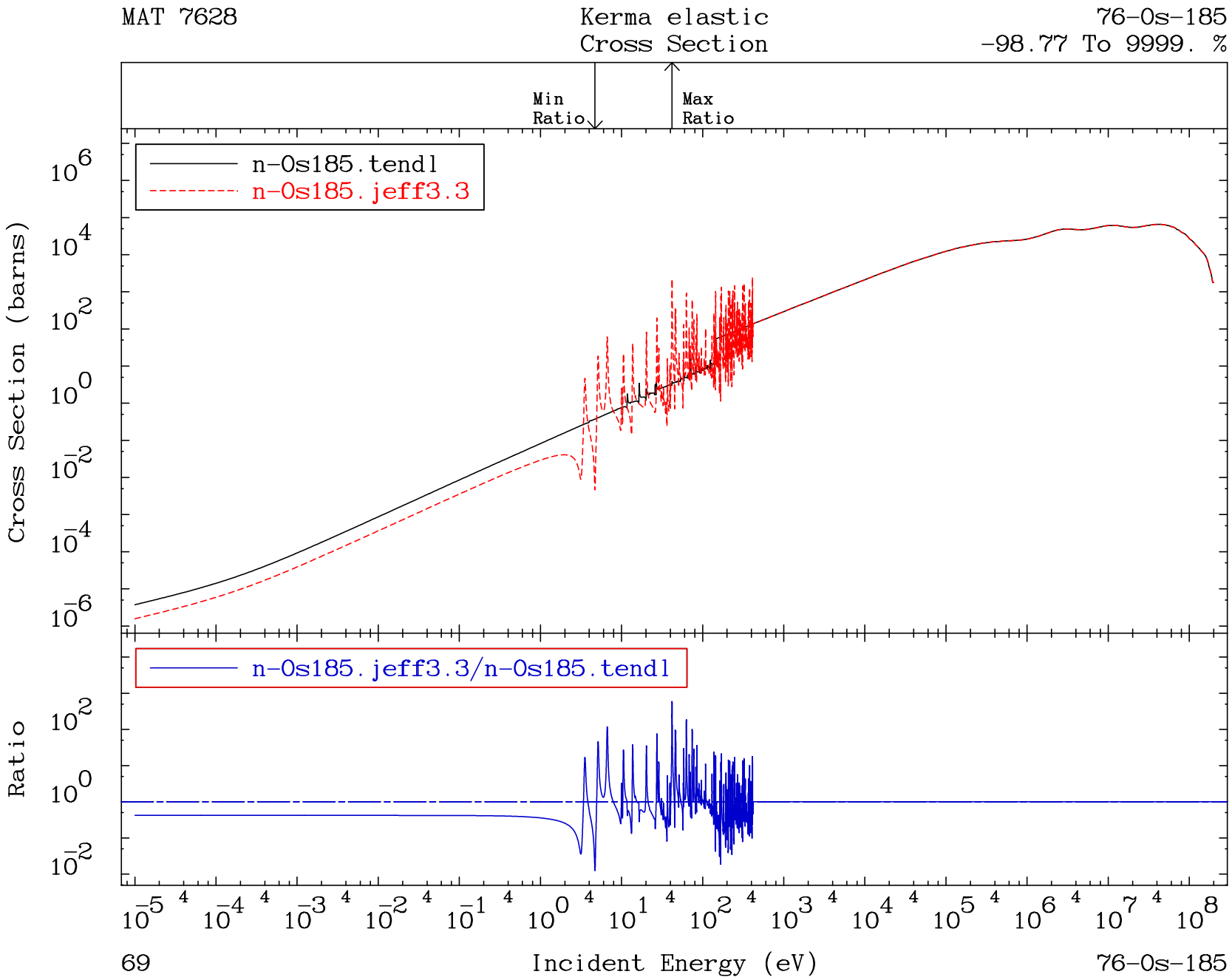

MAT 7628
Deuterium Production
Cross Section
76-0s-185
-100.0 To 1.242 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 1.3000 MeV
n-0s185.jeff3.3 Threshold 1.3704 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^0
10^-4
10^-8
10^-12
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
64
Incident Energy (eV)
76-0s-185

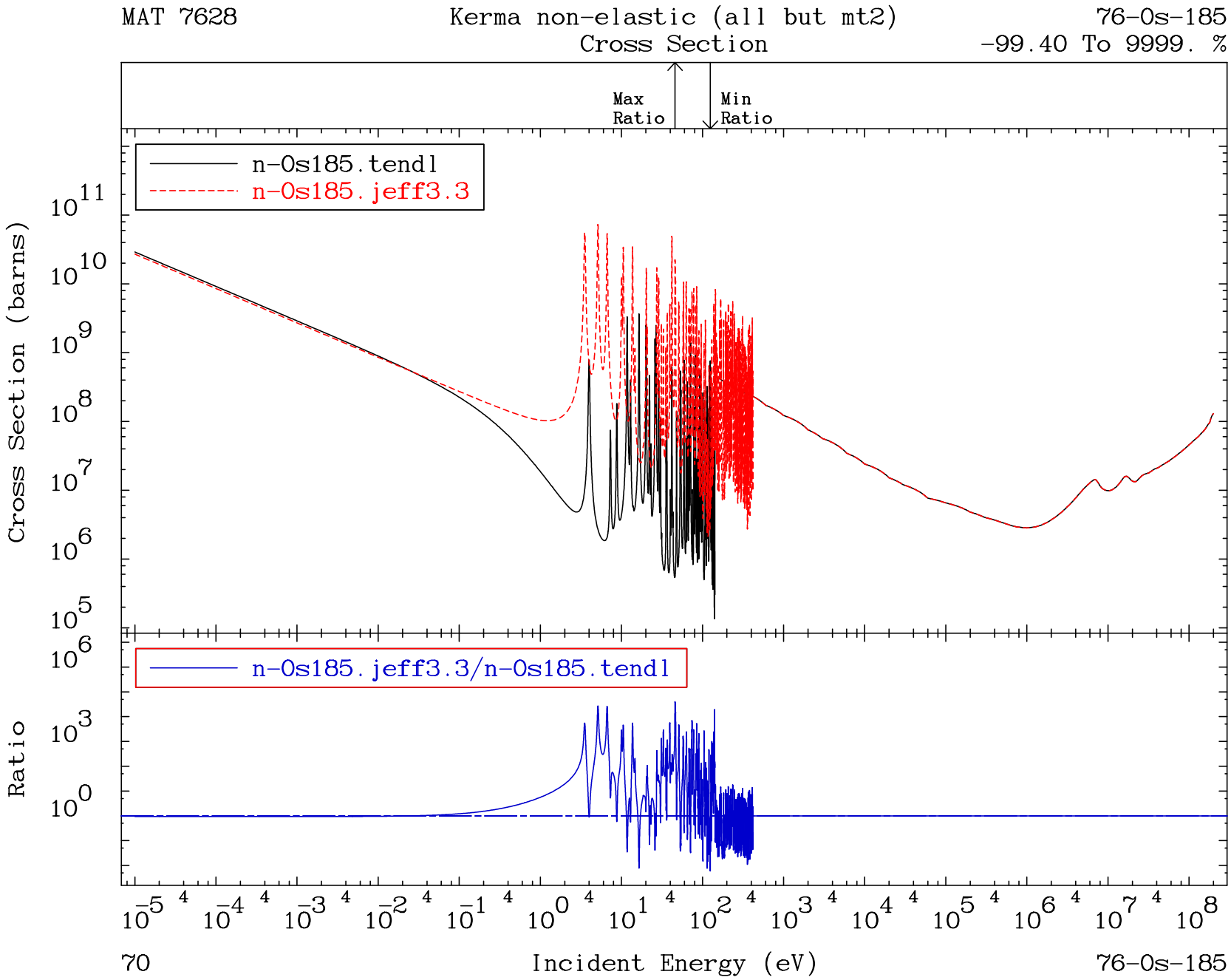

MAT 7628
Tritium Production
Cross Section
76-0s-185
-58.39 To 2.531 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 3.8959 MeV
n-0s185.jeff3.3 Threshold 3.8983 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.2
1.0
0.8
0.6
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
65
Incident Energy (eV)
76-0s-185

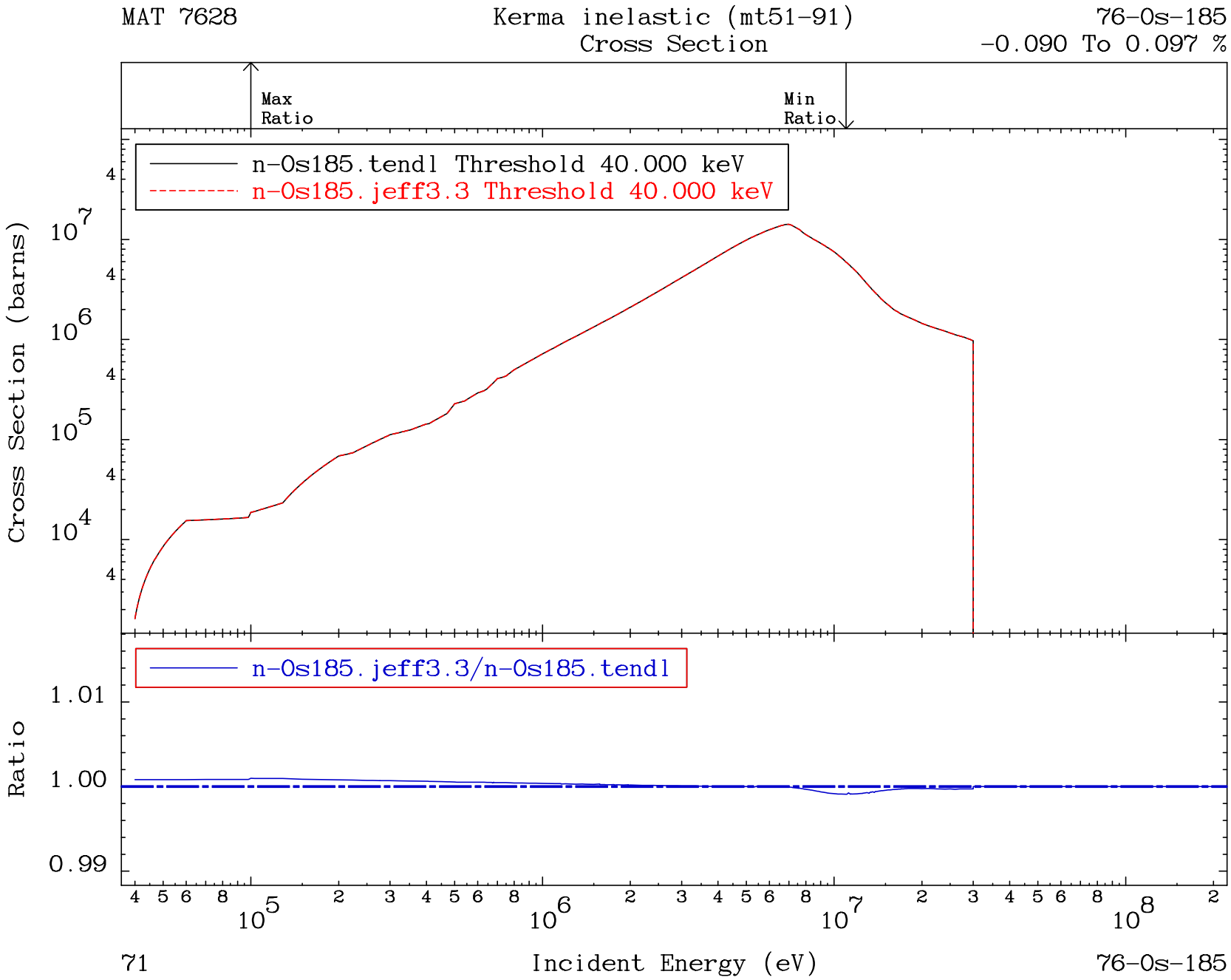

MAT 7628
He-3 Production
Cross Section
76-0s-185
-100.0 To 0.255 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 3.3000 MeV
n-0s185.jeff3.3 Threshold 3.3205 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^0
10^-4
10^-8
10^-12
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
76-0s-185

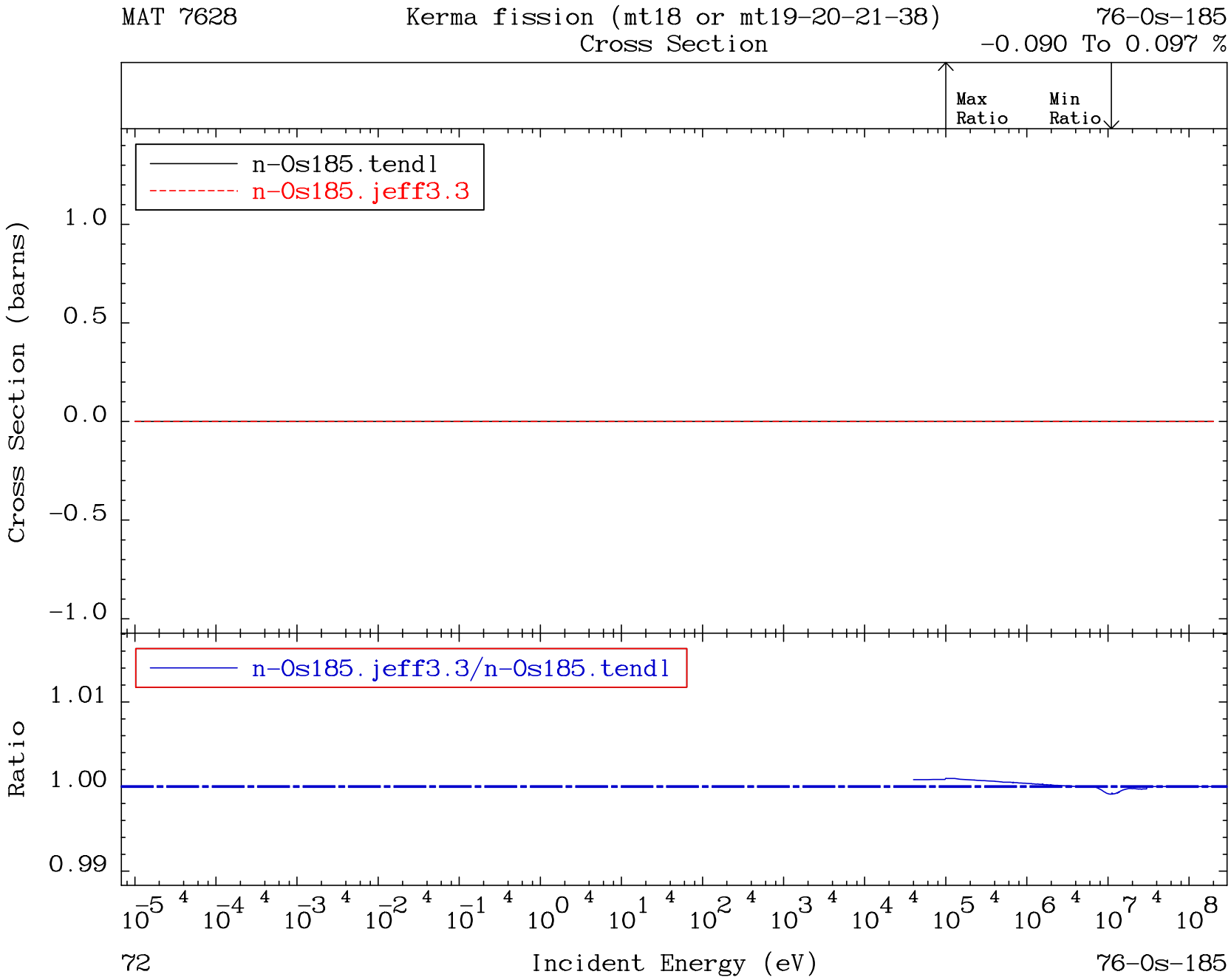

MAT 7628
He-4 Production
Cross Section
76-0s-185
-17.15 To 940.2 %
Max
Ratio
Min
Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
67
76-0s-185

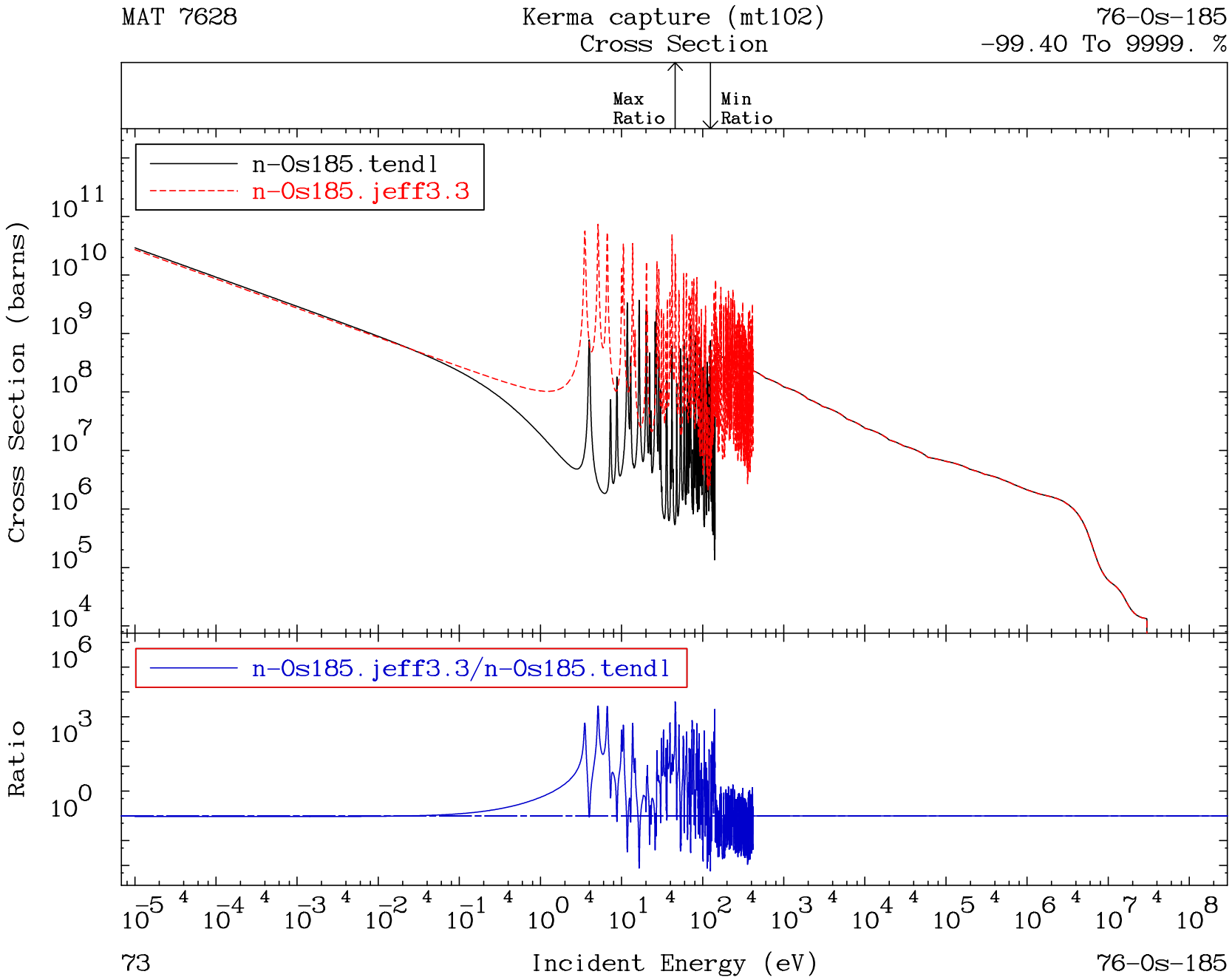

MAT 7628
Kerma total (eV-barns)
Cross Section
76-0s-185
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
Ratio
n-0s185.jeff3.3/n-0s185.tendl
Incident Energy (eV)
68
76-0s-185

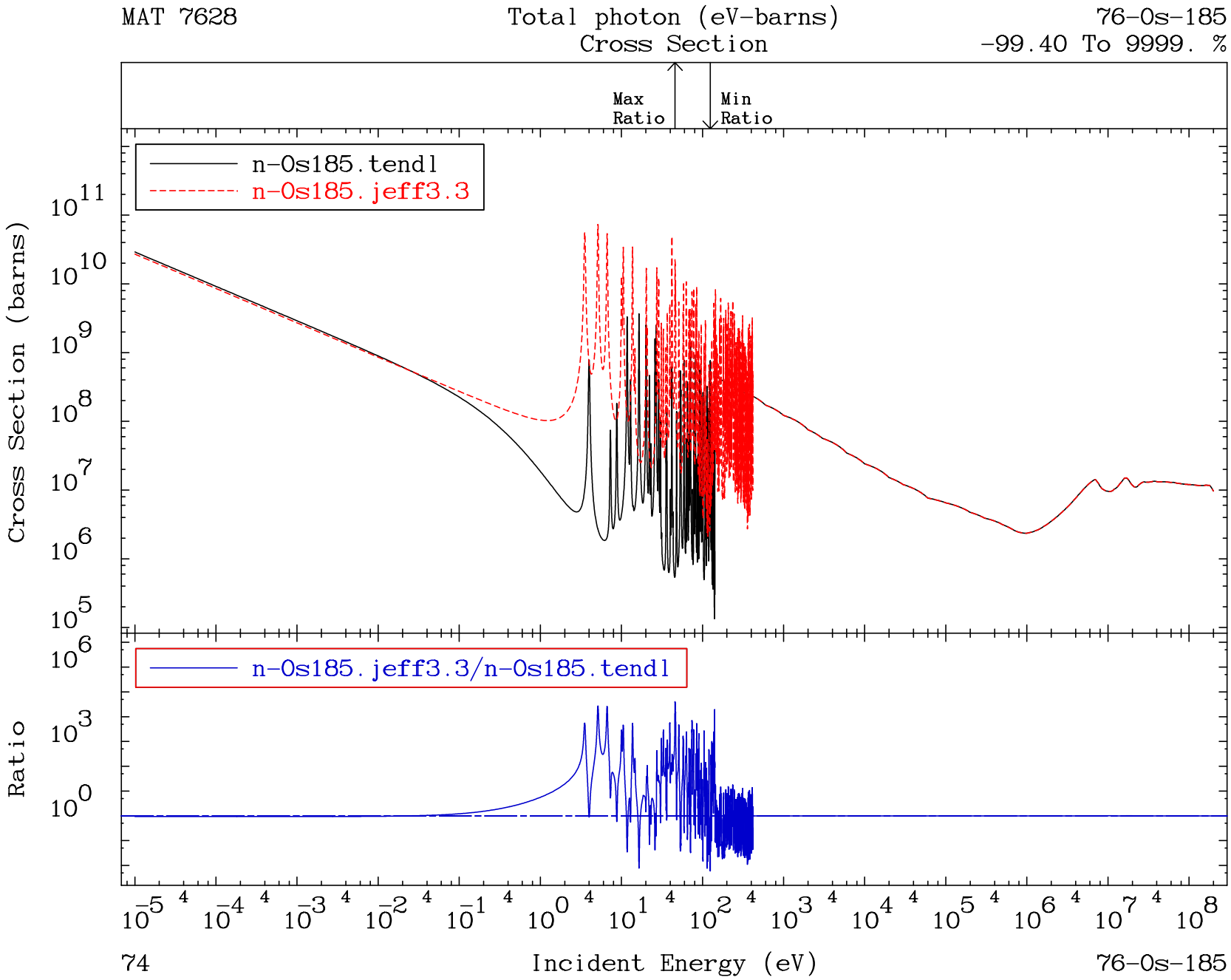

MAT 7628
Kerma elastic
Cross Section
76-0s-185
-98.77 To 9999. %
Min
Ratio
Max
Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
69
76-0s-185

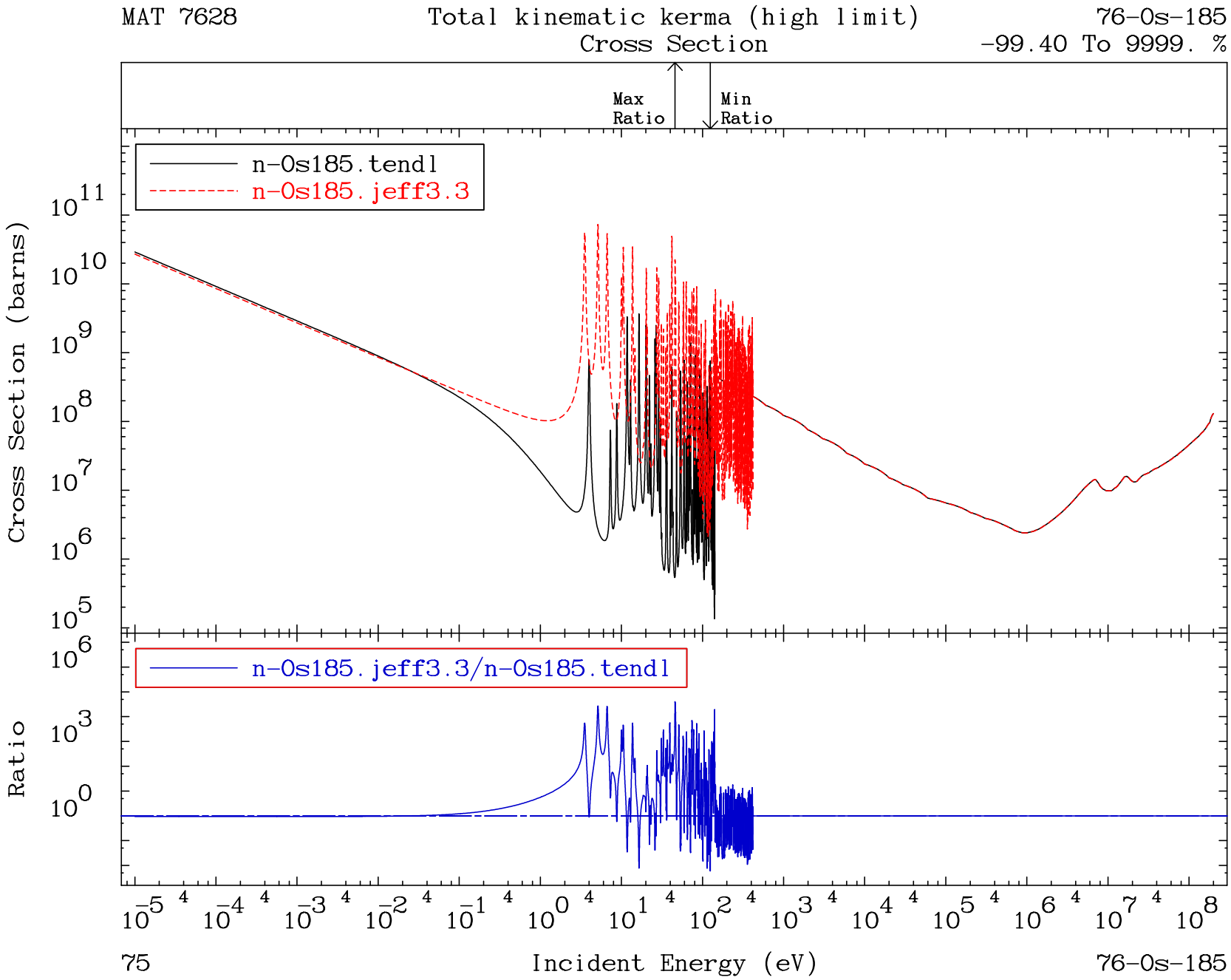

MAT 7628
Kerma non-elastic (all but mt2)
Cross Section
76-0s-185
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
Ratio
n-0s185.jeff3.3/n-0s185.tendl
Incident Energy (eV)
70
76-0s-185

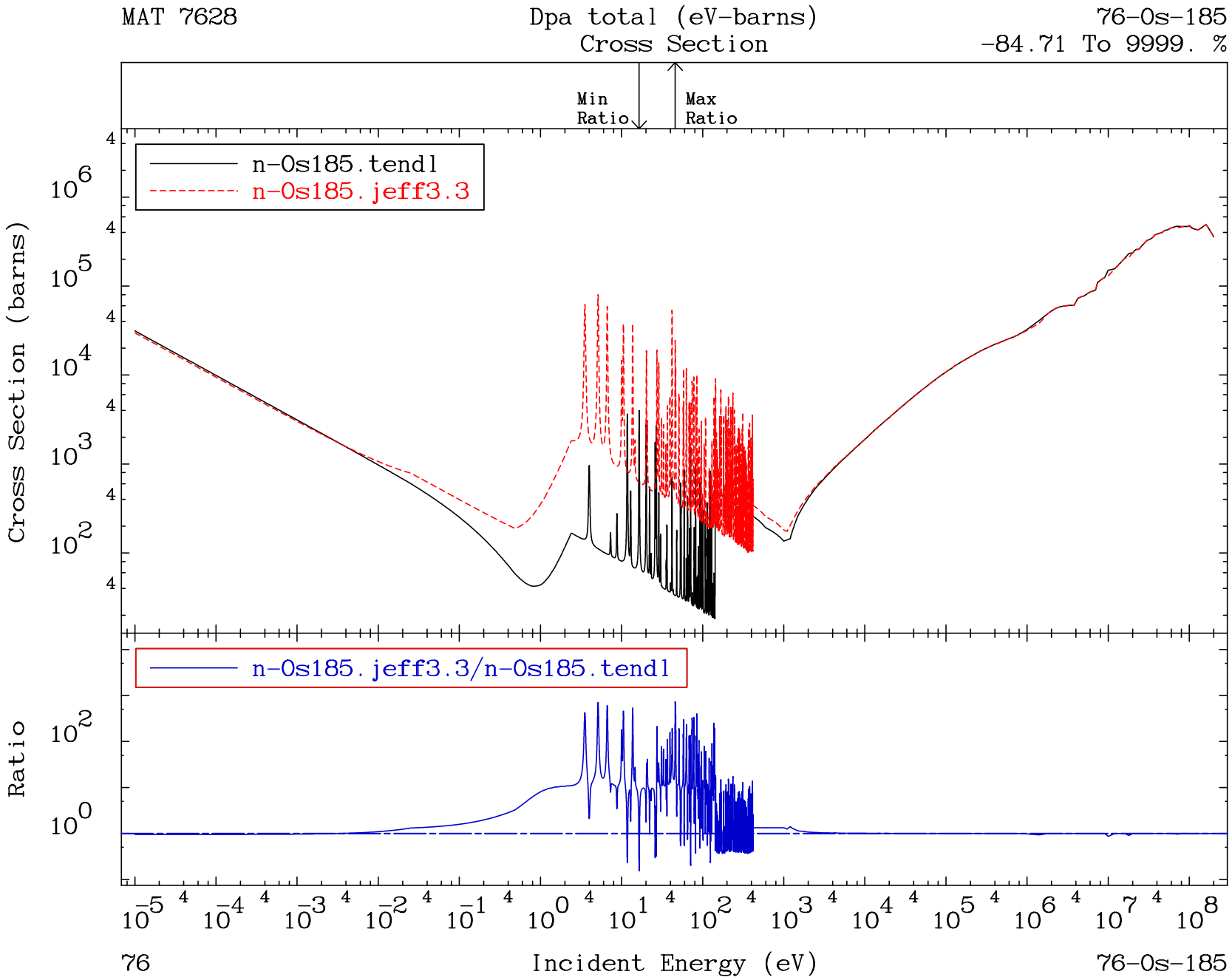

MAT 7628
Kerma inelastic (mt51-91)
Cross Section
76-0s-185
-0.090 To 0.097 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 40.000 keV
n-0s185.jeff3.3 Threshold 40.000 keV
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
71
76-0s-185

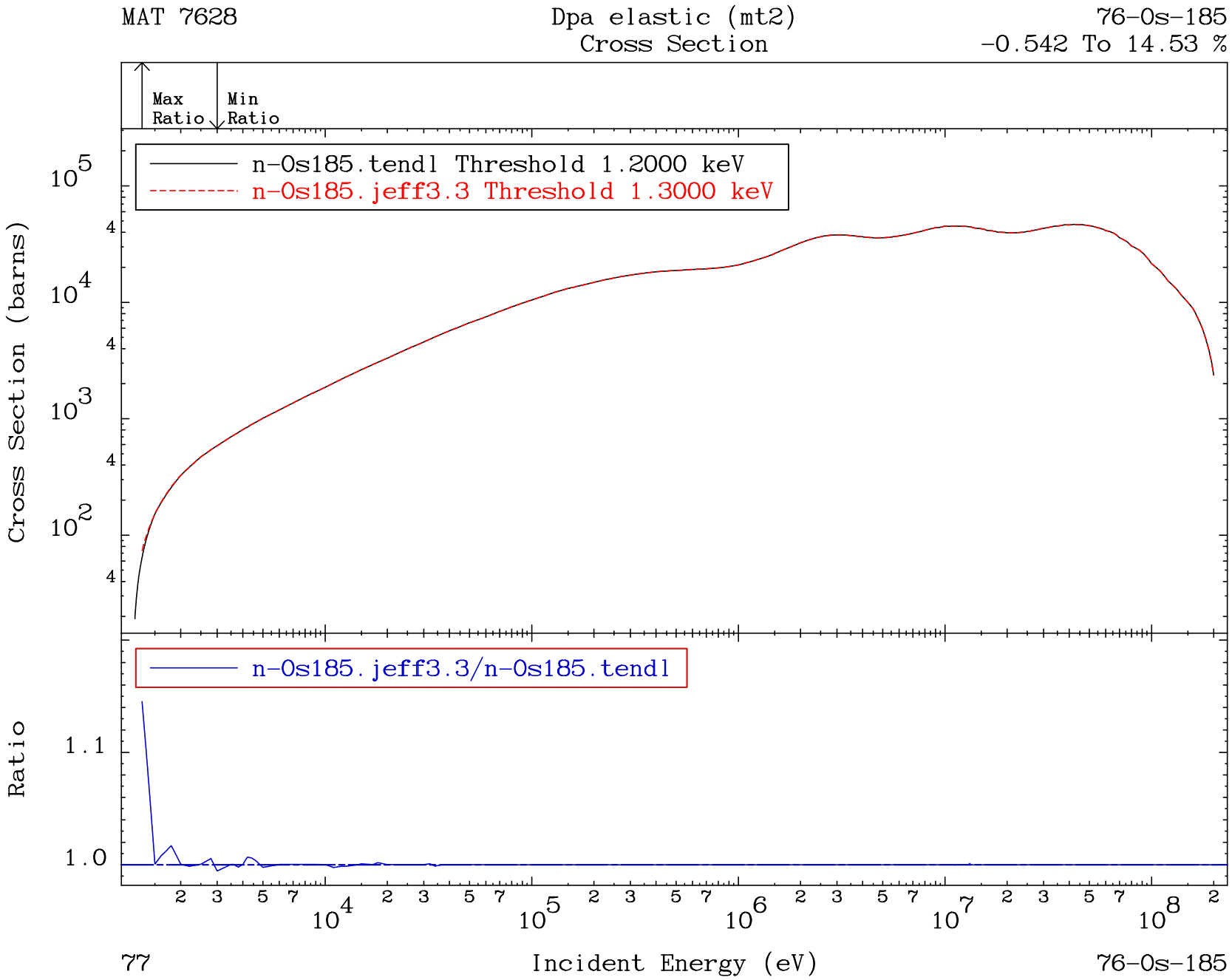

MAT 7628
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
76-0s-185
-0.090 To 0.097 %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
72
Incident Energy (eV)
76-0s-185

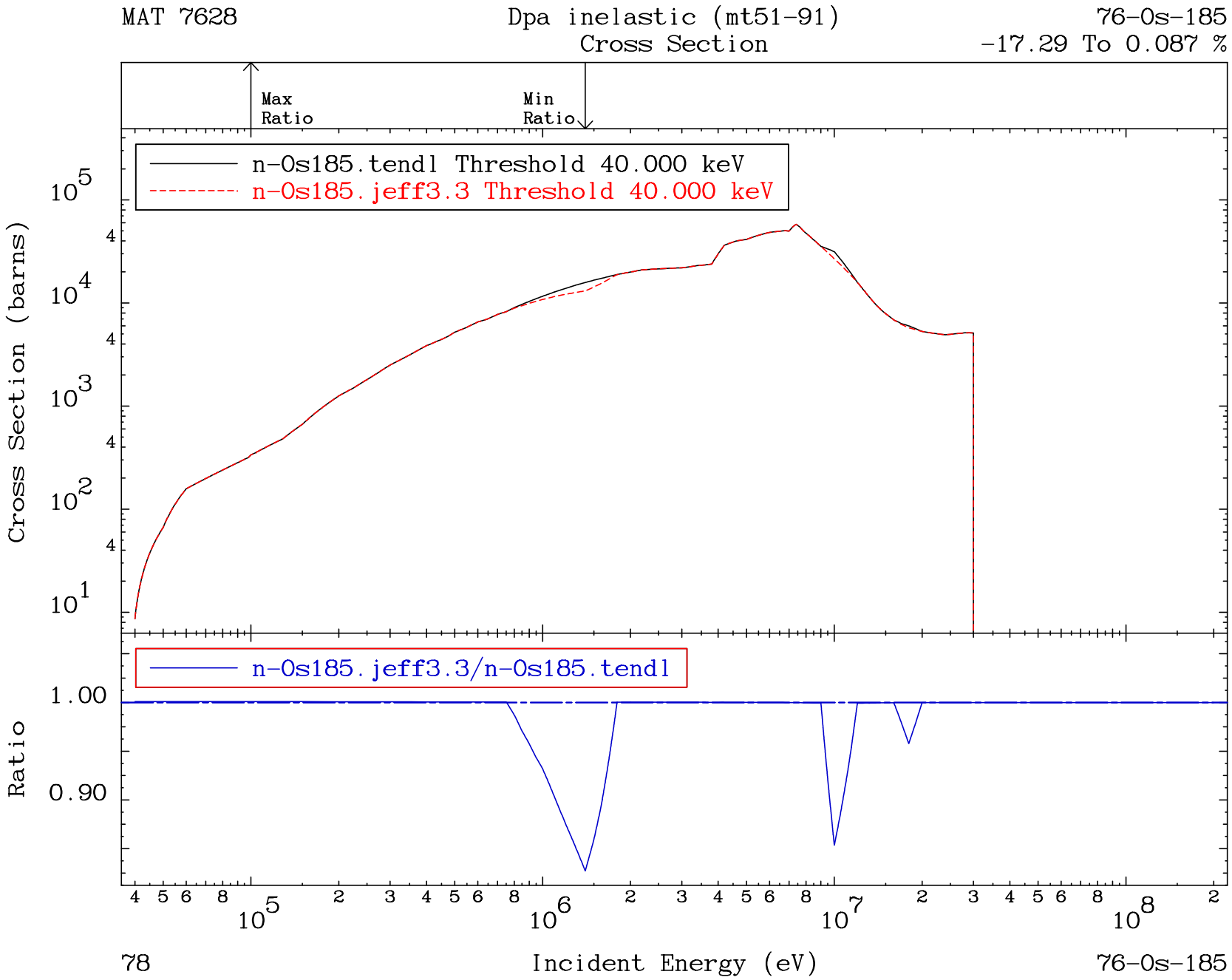

MAT 7628
Kerma capture (mt102)
Cross Section
76-0s-185
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
Ratio
n-0s185.jeff3.3/n-0s185.tendl
Incident Energy (eV)
73
76-0s-185

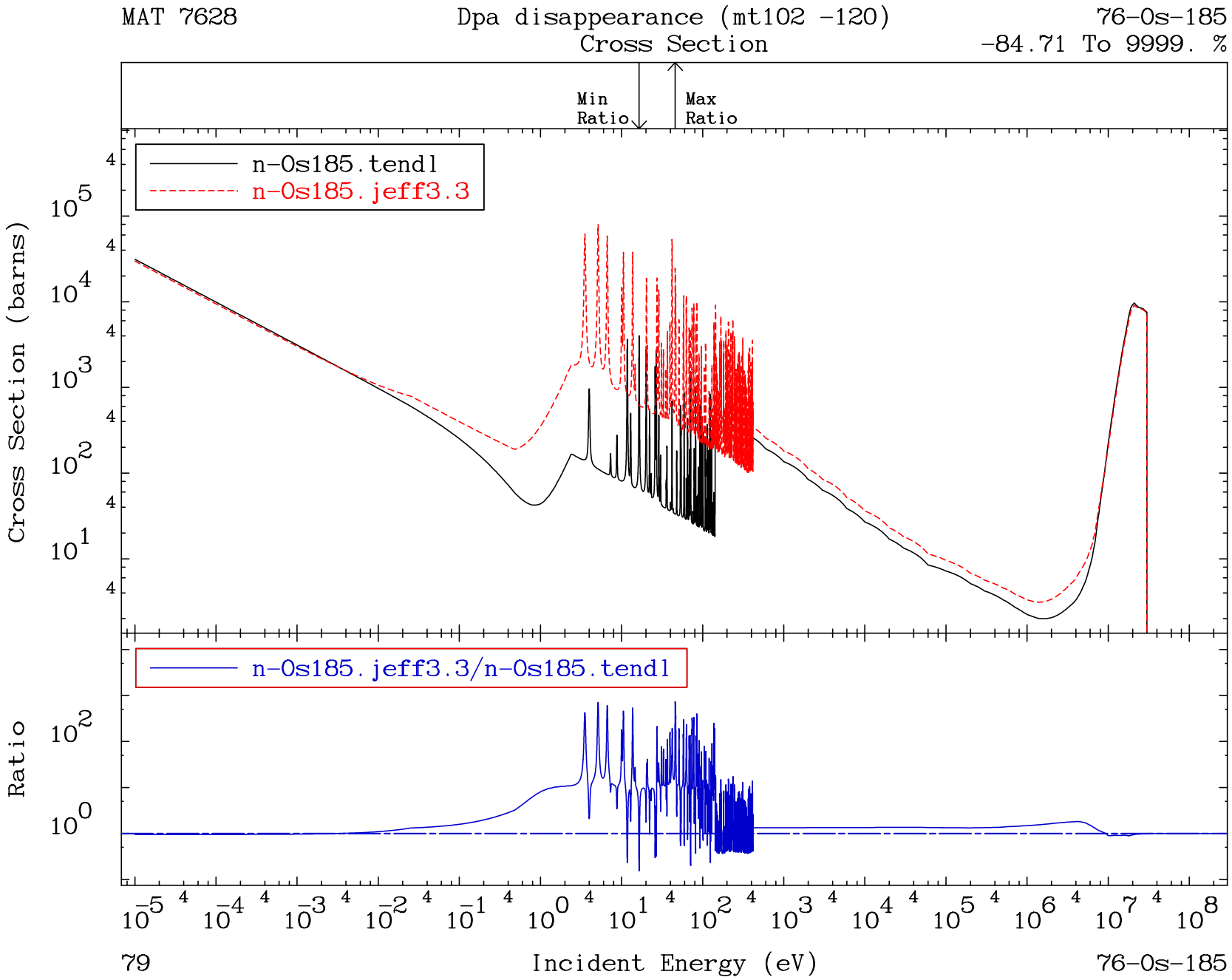

MAT 7628
Total photon (eV-barns)
Cross Section
76-0s-185
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
Ratio
n-0s185.jeff3.3/n-0s185.tendl
Incident Energy (eV)
74
76-0s-185

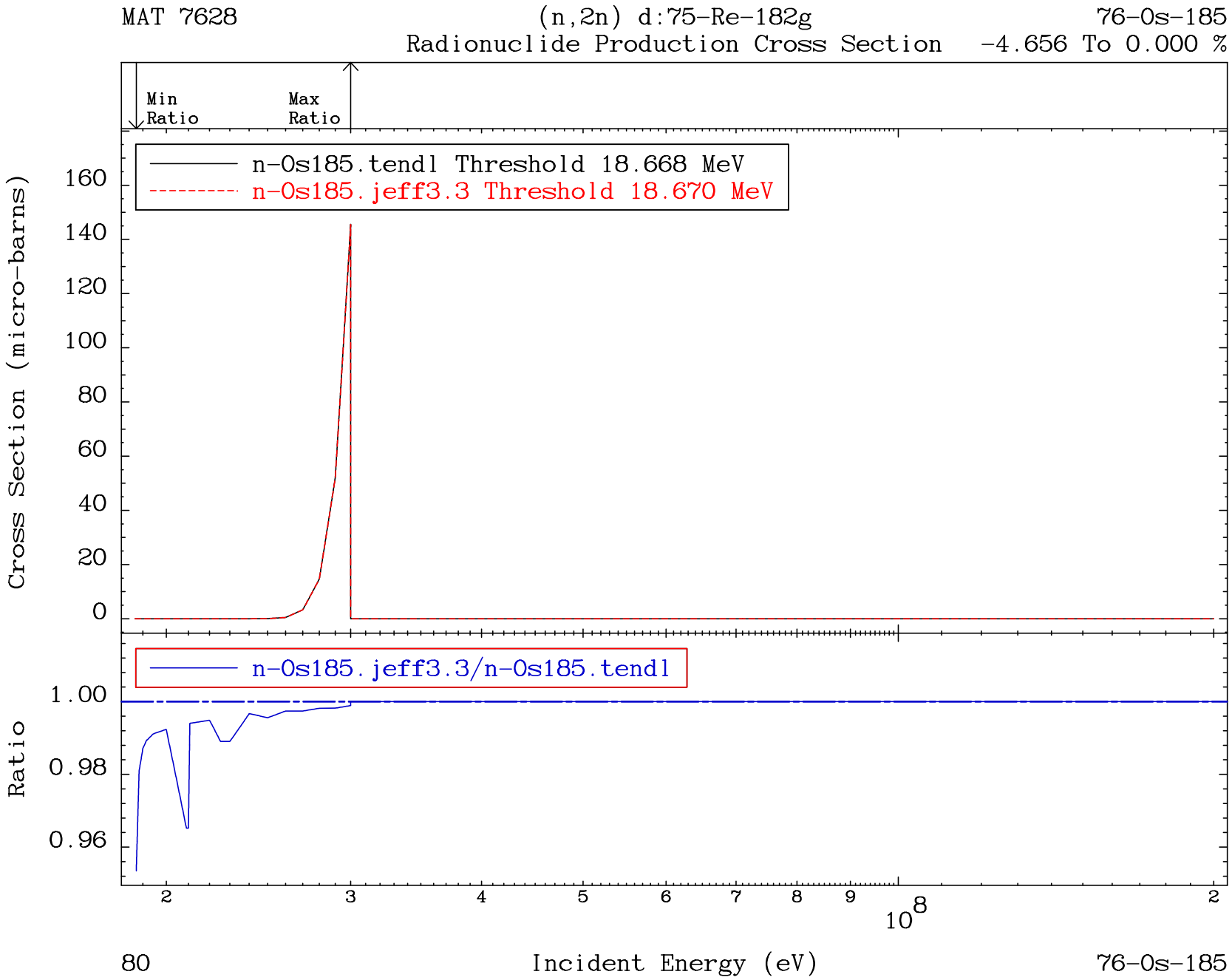

MAT 7628
Total kinematic kerma (high limit)
Cross Section
76-0s-185
-99.40 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
75
76-0s-185

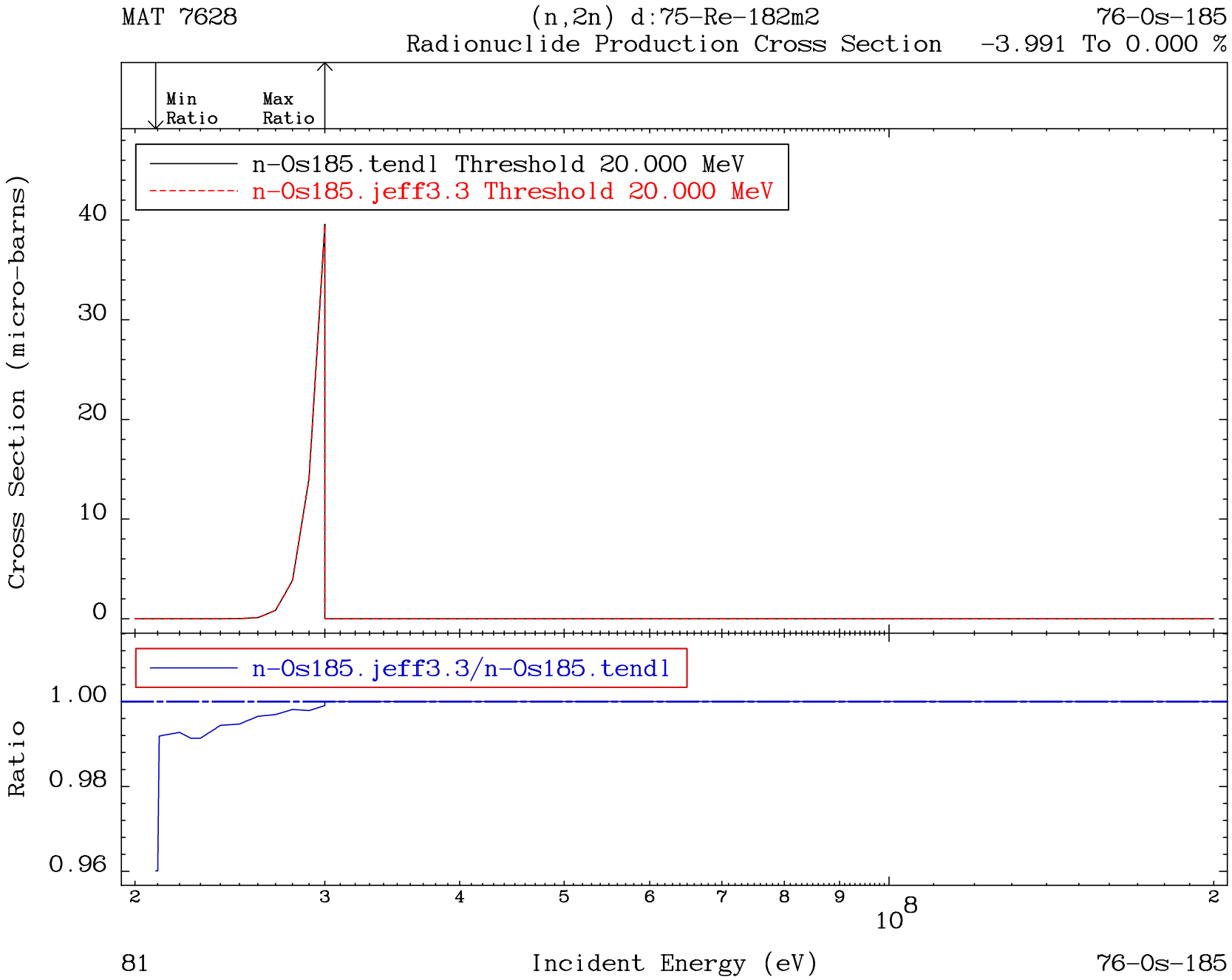

MAT 7628
Dpa total (eV-barns)
Cross Section
76-0s-185
-84.71 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
76
76-0s-185

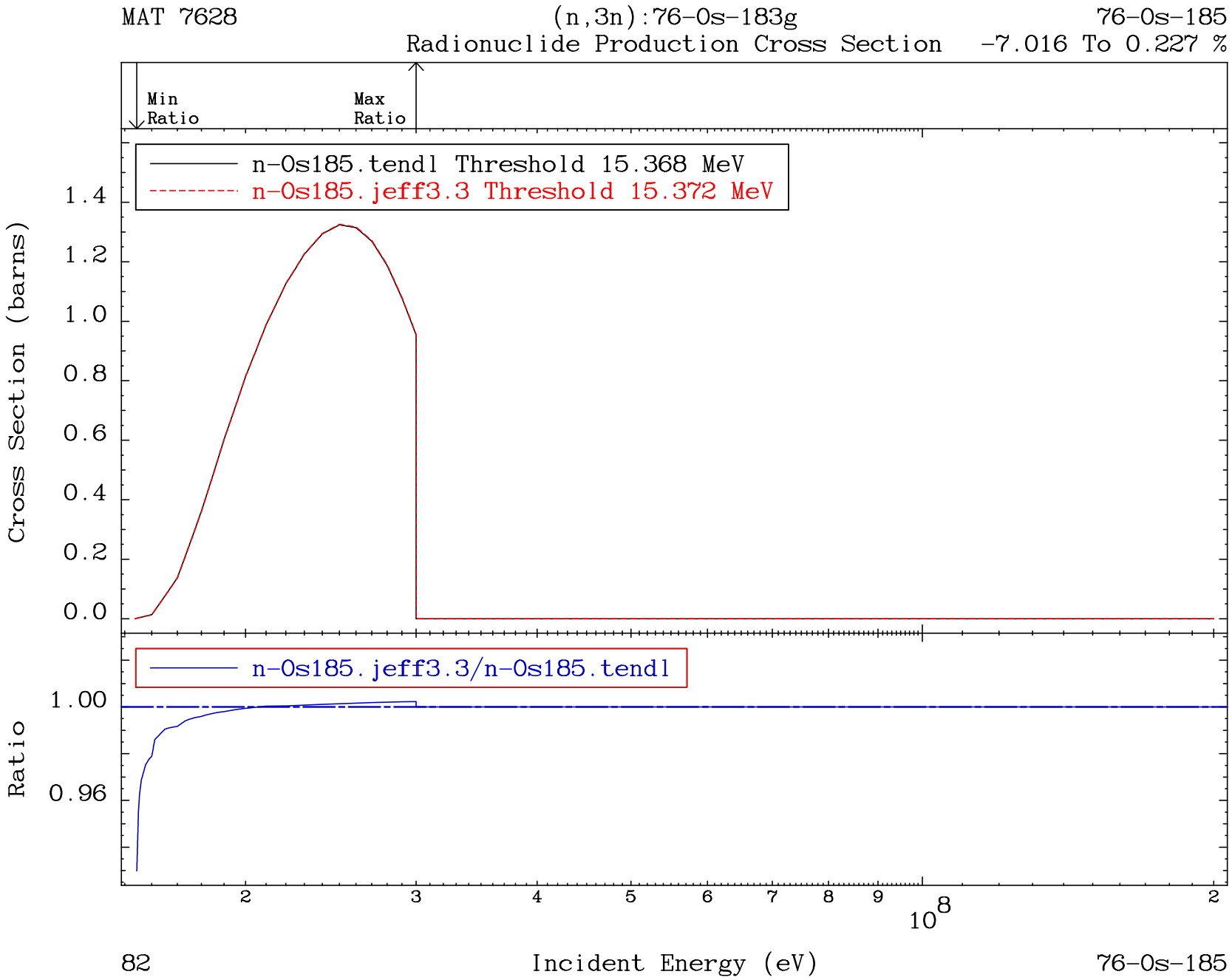

MAT 7628
Dpa elastic (mt2)
Cross Section
76-0s-185
-0.542 To 14.53 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 1.2000 keV
n-0s185.jeff3.3 Threshold 1.3000 keV
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
77
76-0s-185

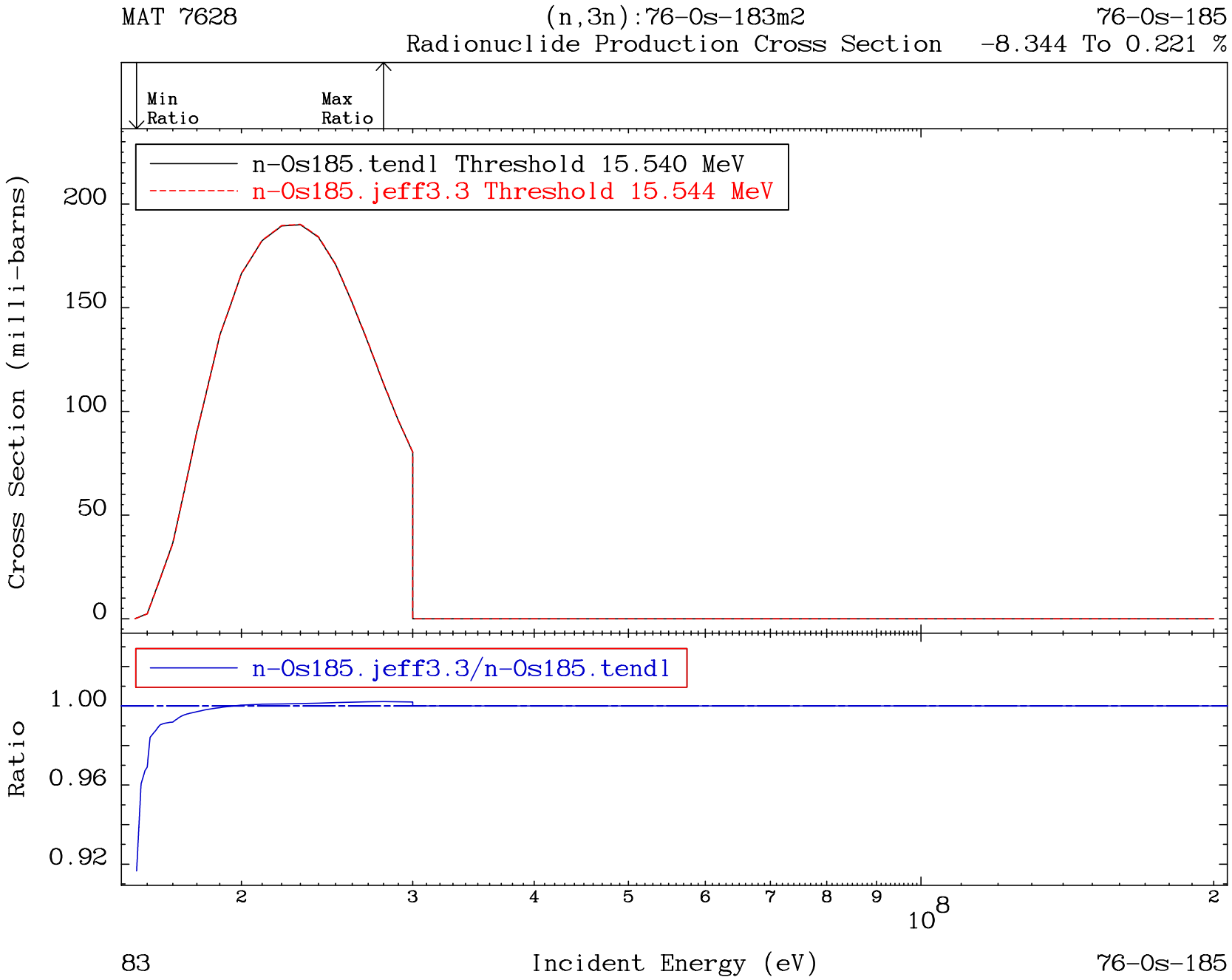

MAT 7628
Dpa inelastic (mt51-91)
Cross Section
76-0s-185
-17.29 To 0.087 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 40.000 keV
n-0s185.jeff3.3 Threshold 40.000 keV
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
78
76-0s-185

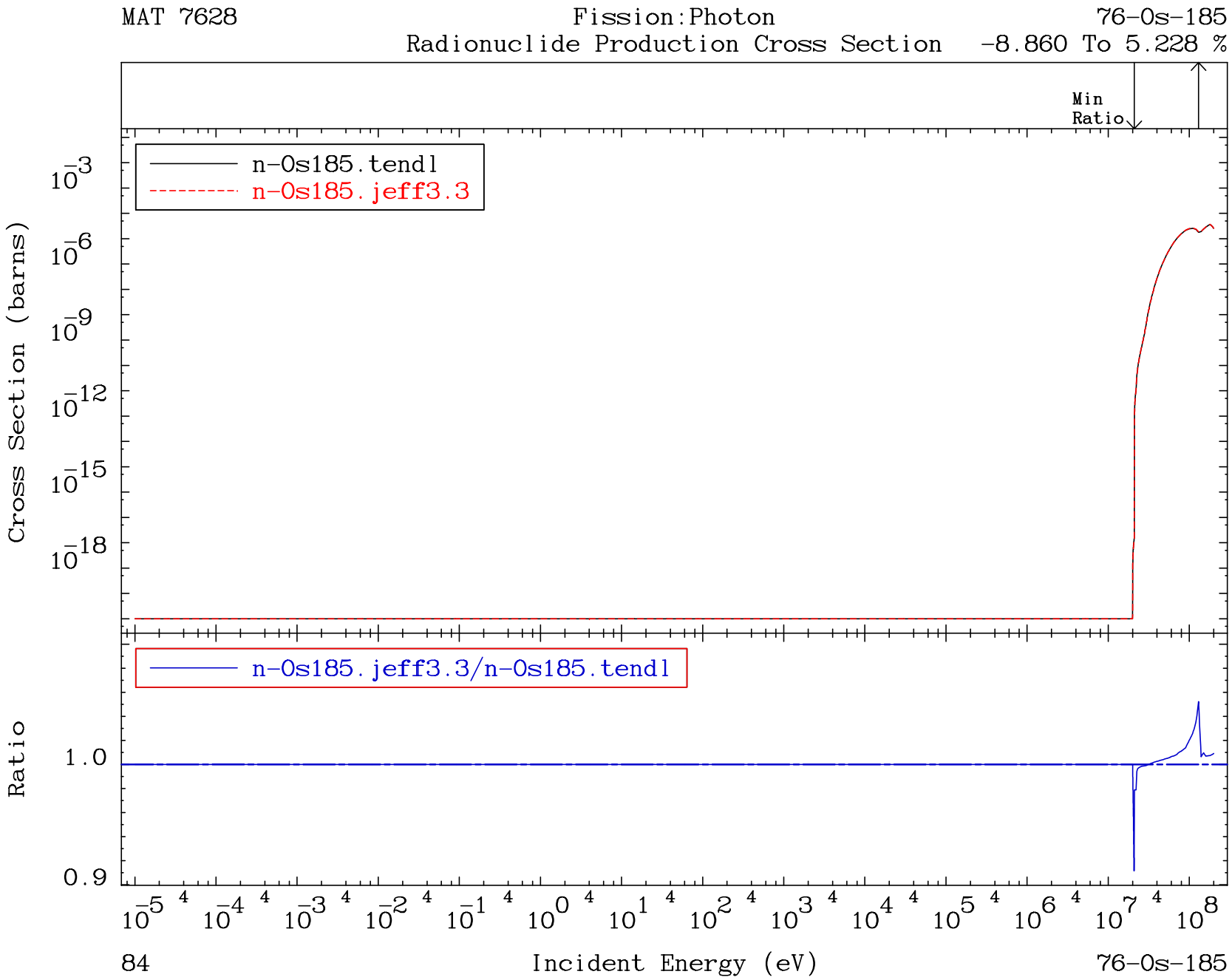

MAT 7628
Dpa disappearance (mt102 -120)
Cross Section
76-0s-185
-84.71 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
79
76-0s-185

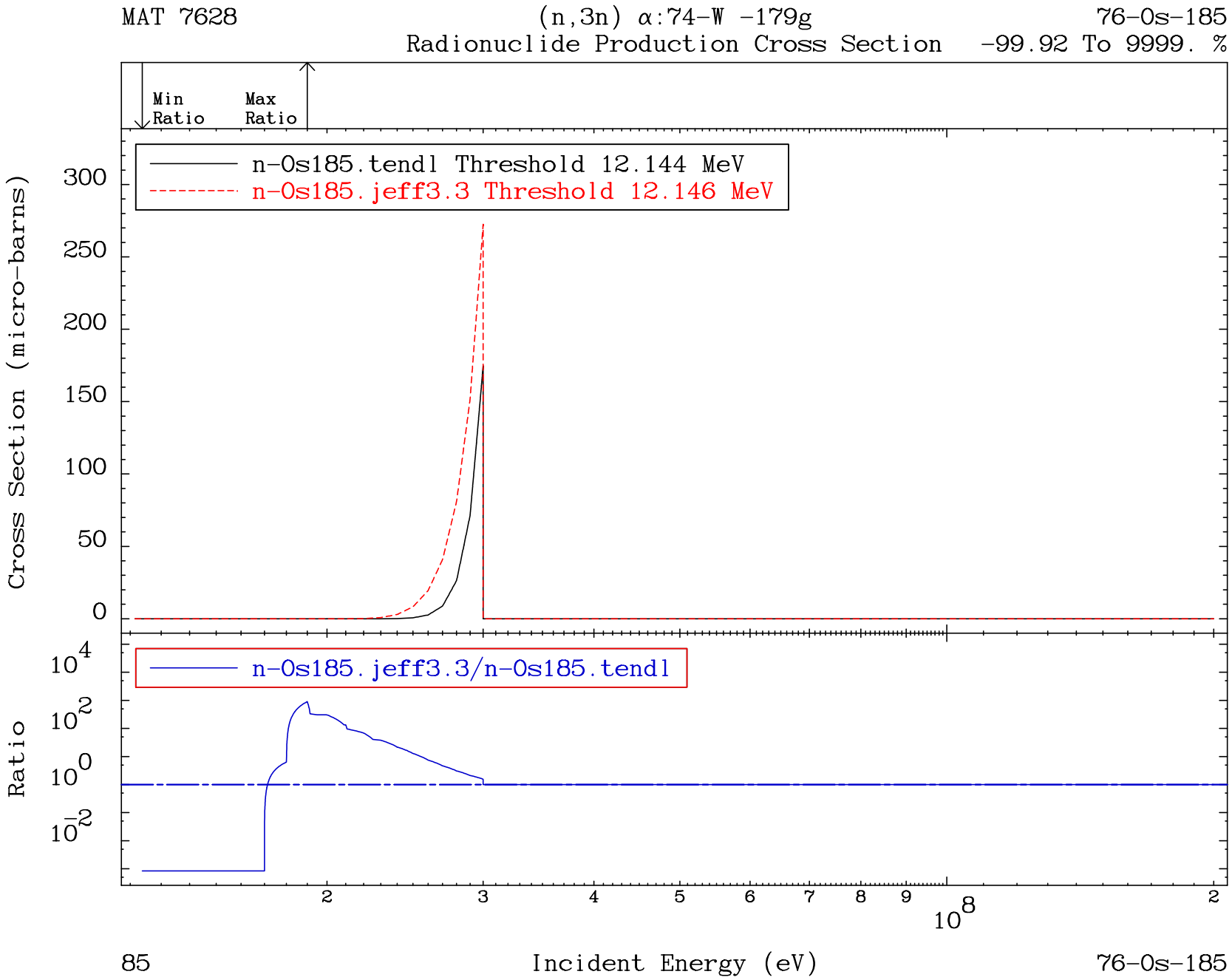

MAT 7628
(n,2n) d:75-Re-182g
76-0s-185
Radionuclide Production Cross Section
-4.656 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 18.668 MeV
n-0s185.jeff3.3 Threshold 18.670 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
76-0s-185

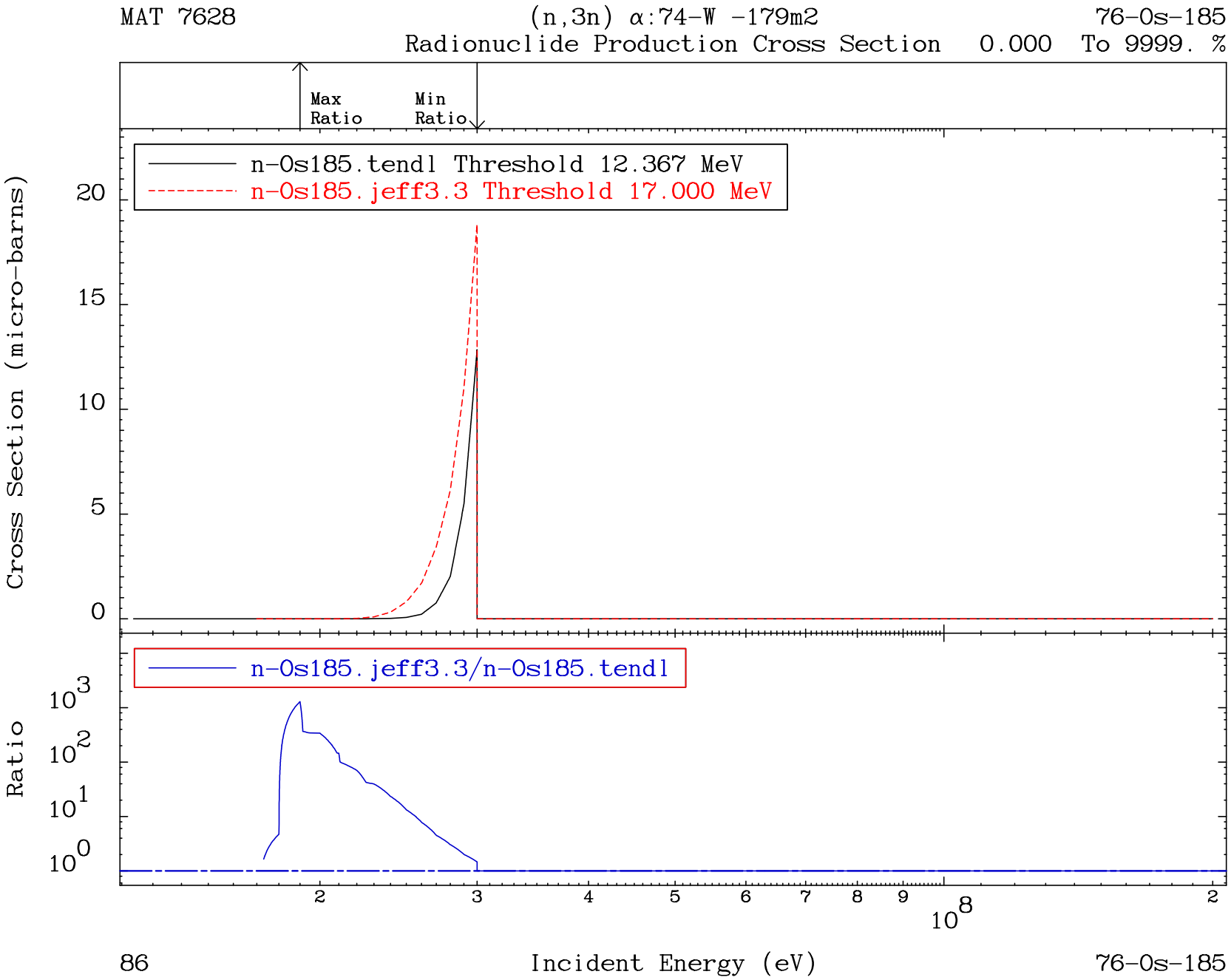

MAT 7628
(n,2n) d:75-Re-182m2
76-0s-185
Radionuclide Production Cross Section
-3.991 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 20.000 MeV
n-0s185.jeff3.3 Threshold 20.000 MeV
Cross Section (micro-barns)
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
76-0s-185

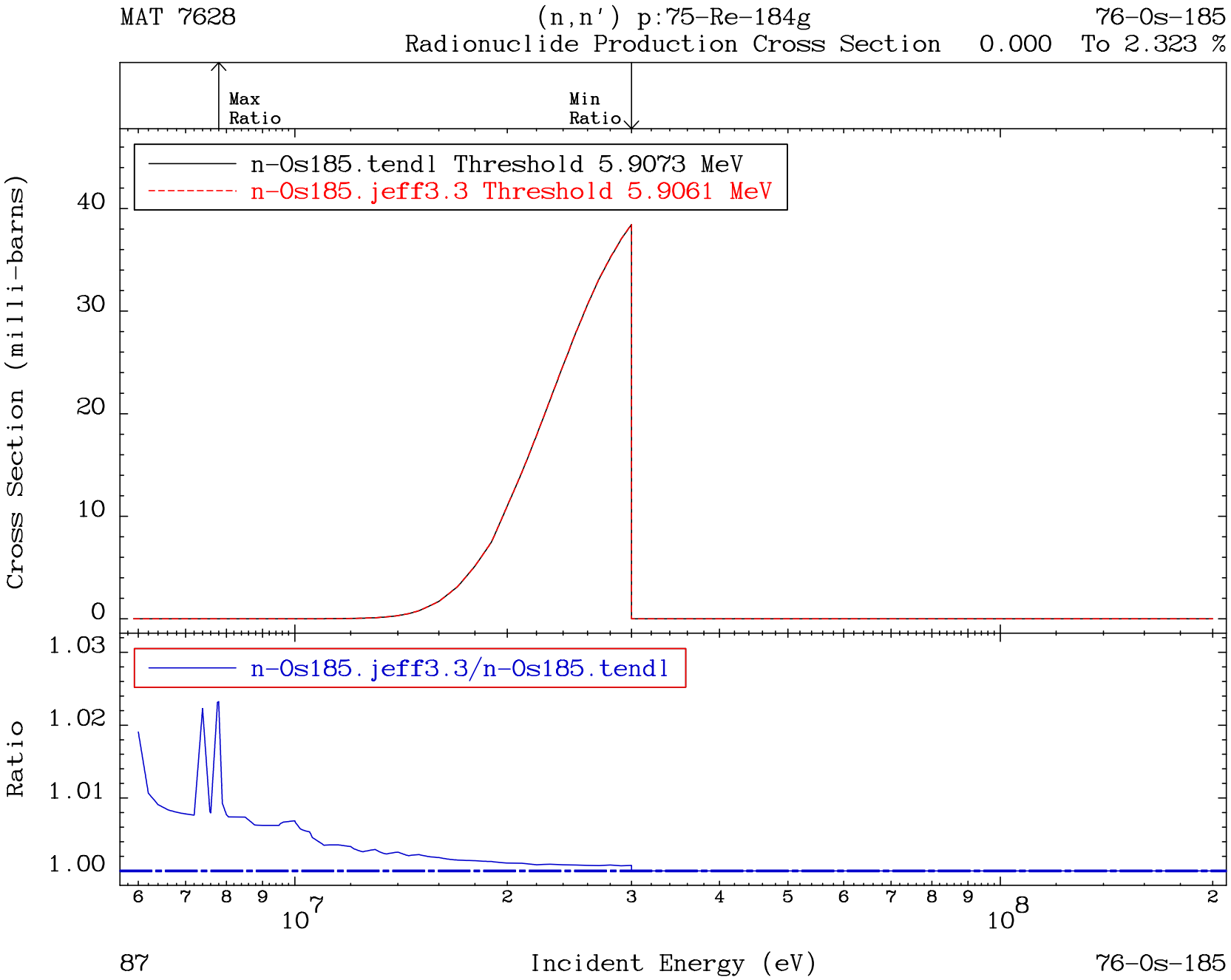

MAT 7628
(n,3n):76-0s-183g
76-0s-185
Radionuclide Production Cross Section
-7.016 To 0.227 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 15.368 MeV
n-0s185.jeff3.3 Threshold 15.372 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.96
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
76-0s-185

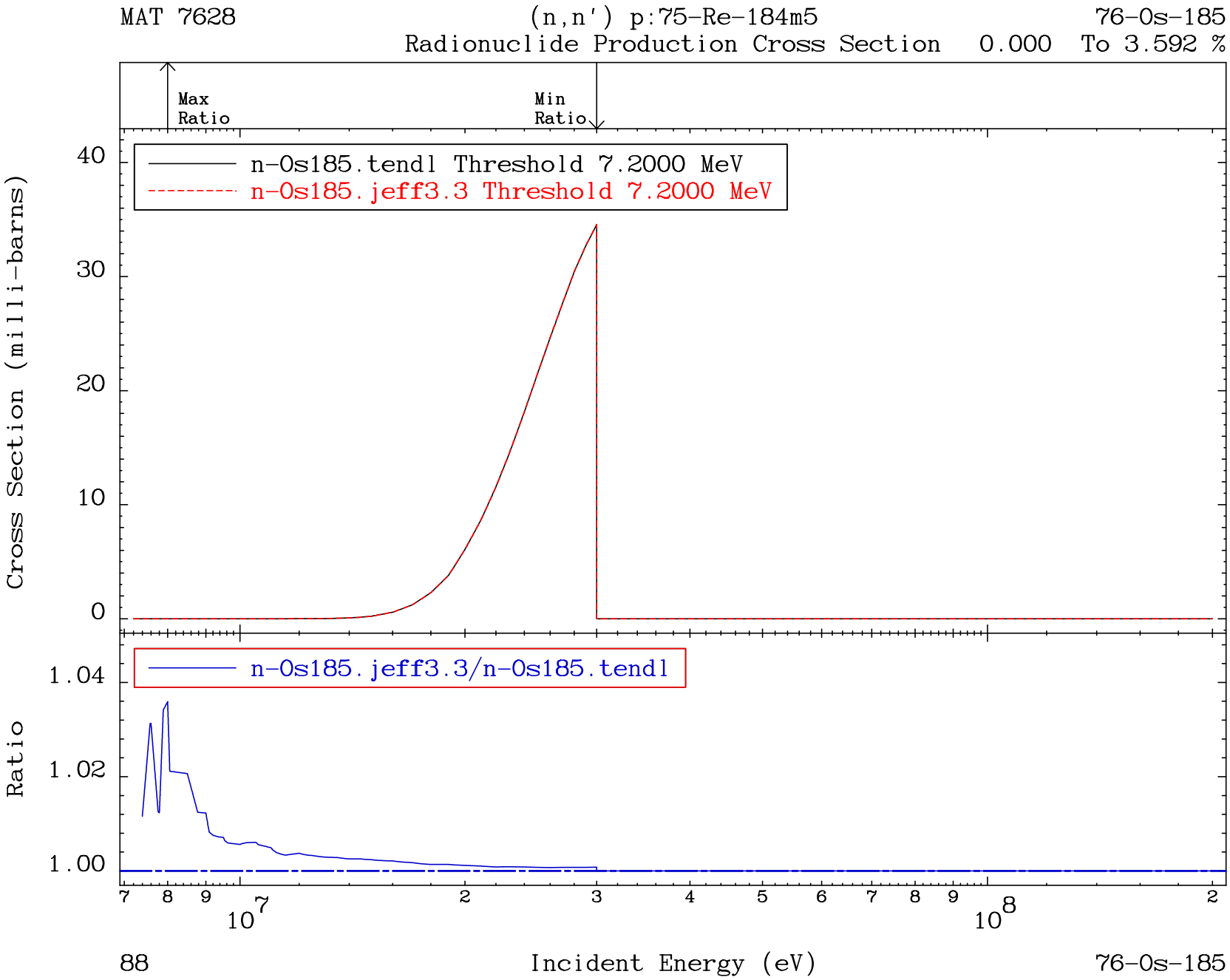

MAT 7628
(n,3n):76-0s-183m2
76-0s-185
Radionuclide Production Cross Section
-8.344 To 0.221 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 15.540 MeV
n-0s185.jeff3.3 Threshold 15.544 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.96
0.92
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
76-0s-185

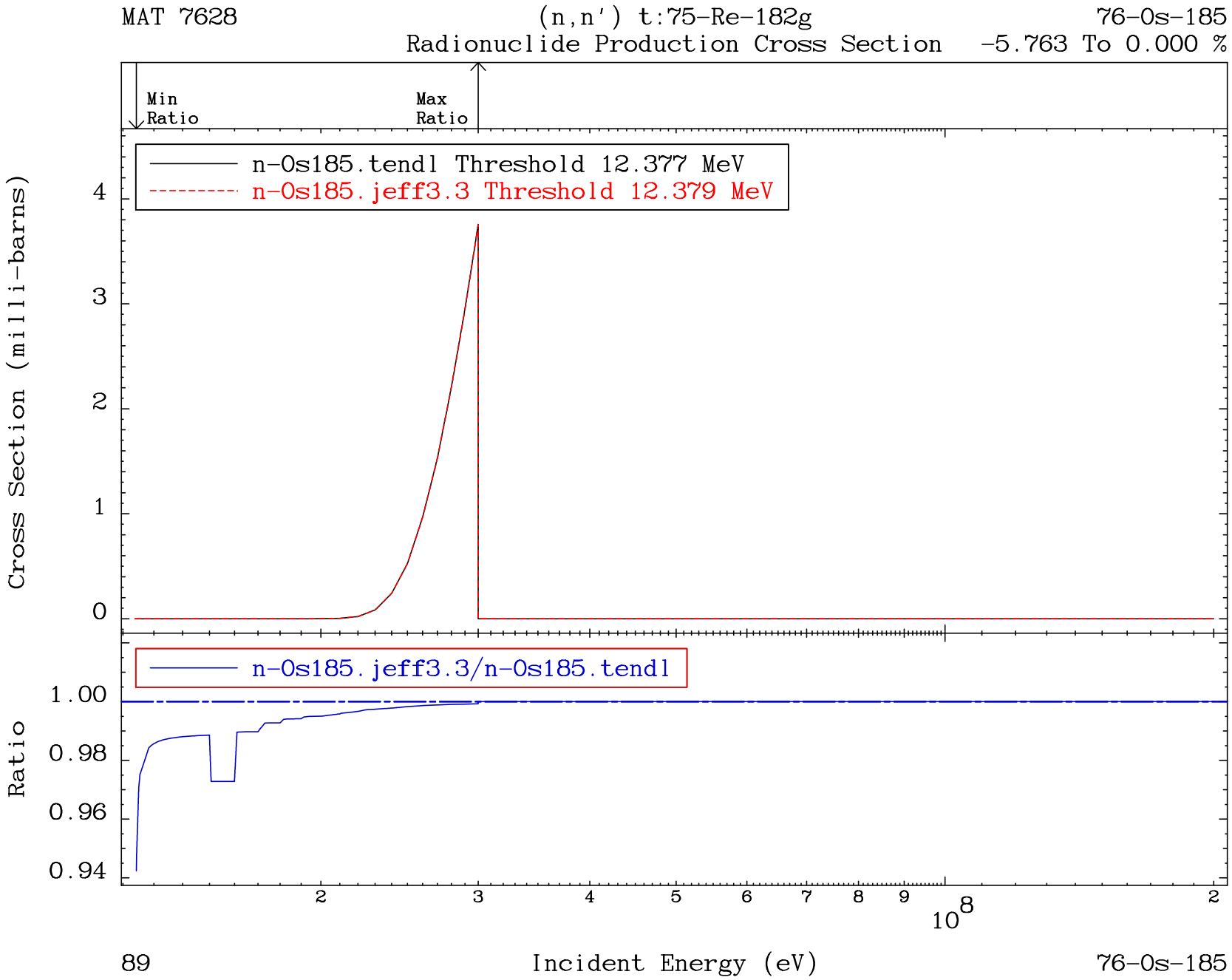

MAT 7628
Fission:Photon
76-0s-185
Radionuclide Production Cross Section
-8.860 To 5.228 %
Min
Ratio
n-0s185.tendl
n-0s185.jeff3.3
Cross Section (barns)
10-3
10-6
10-9
10-12
10-15
10-18
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.0
0.9
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
84
Incident Energy (eV)
76-0s-185

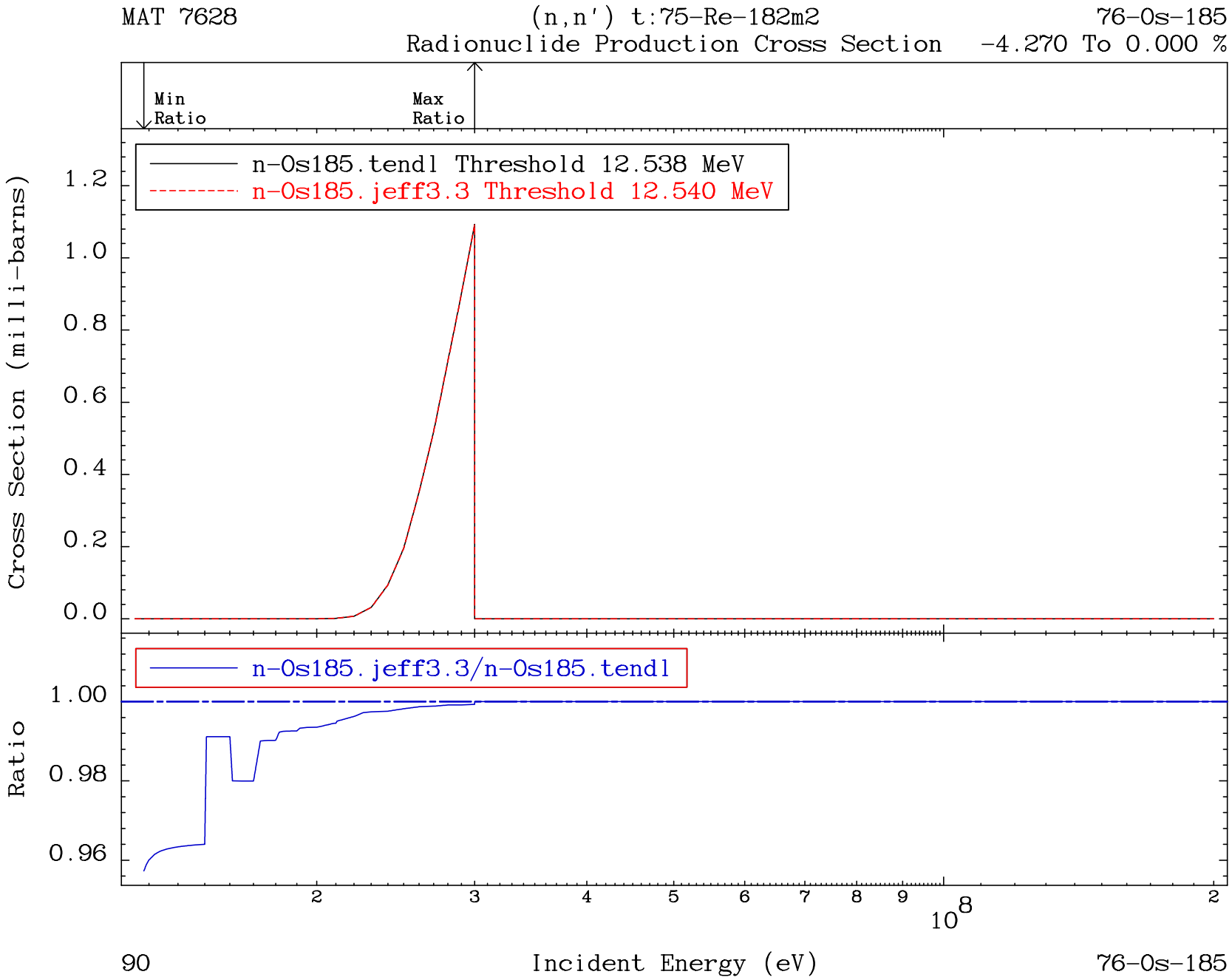

MAT 7628
(n,3n) α:74-W -179g
76-0s-185
Radionuclide Production Cross Section -99.92 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 12.144 MeV
n-0s185.jeff3.3 Threshold 12.146 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^4
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
76-0s-185

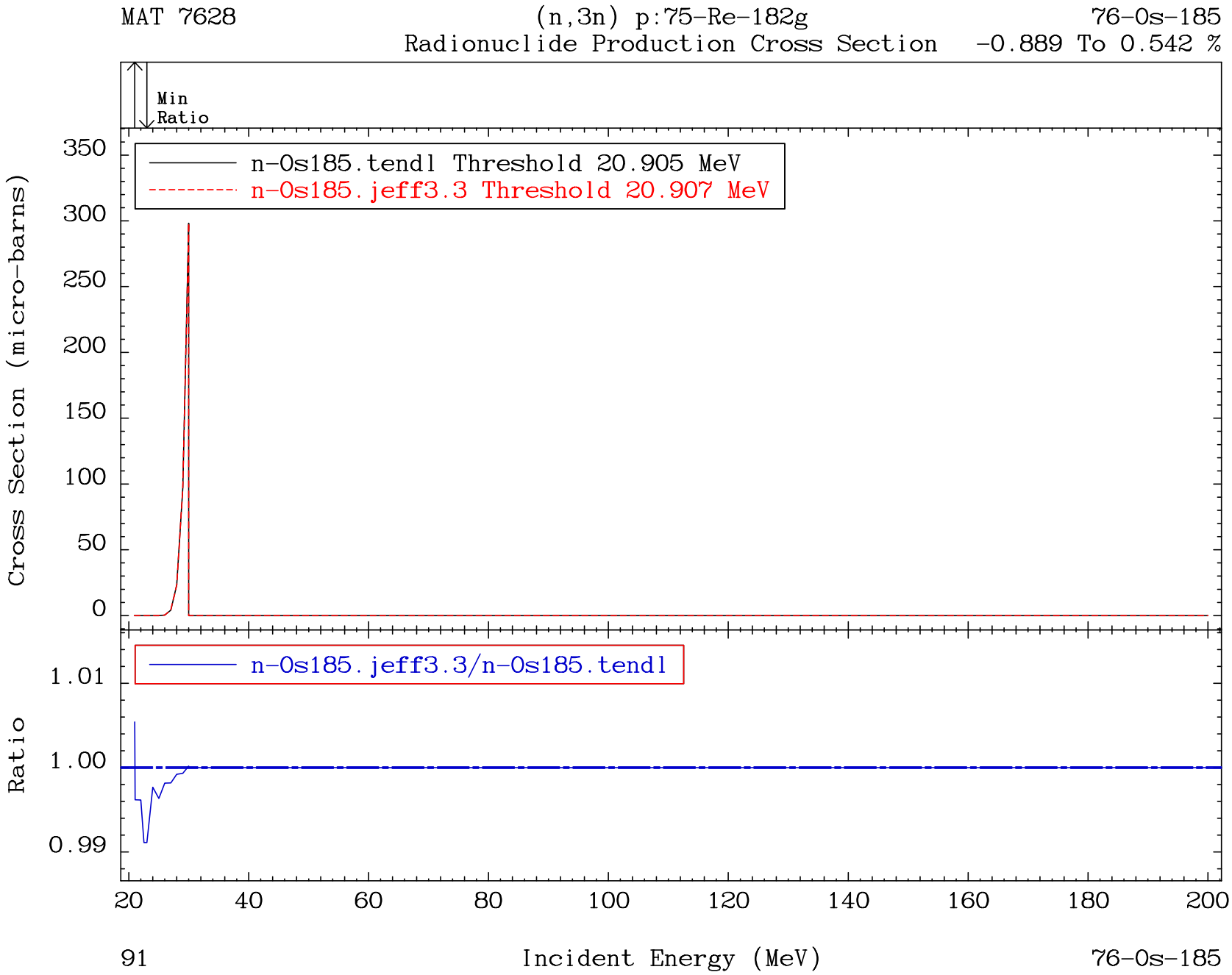

MAT 7628
(n,3n) α:74-W -179m2
76-Os-185
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-Os185.tendl Threshold 12.367 MeV
n-Os185.jeff3.3 Threshold 17.000 MeV
Cross Section (micro-barns)
20
15
10
5
0
n-Os185.jeff3.3/n-Os185.tendl
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
76-Os-185

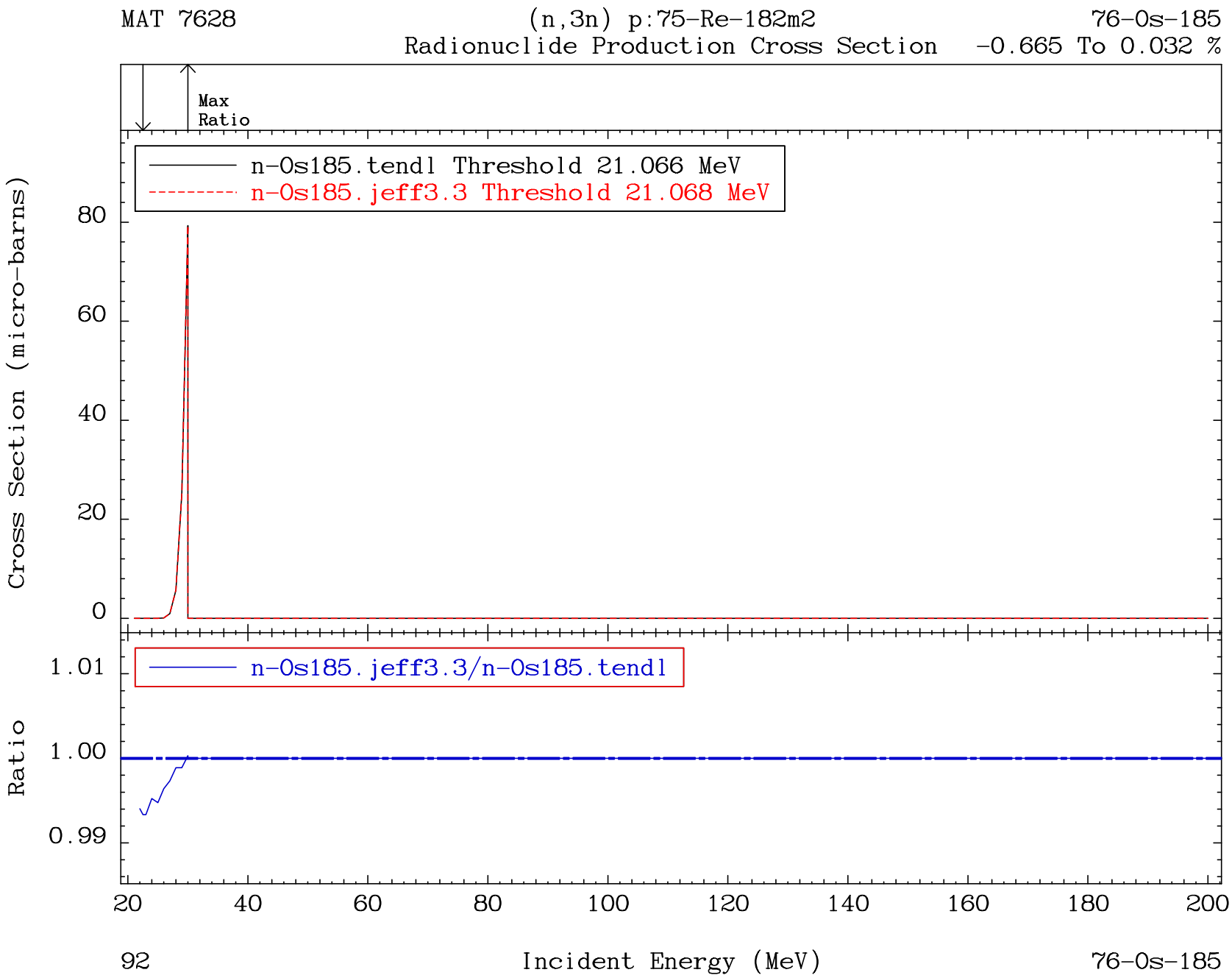

MAT 7628
(n,n') p:75-Re-184g
76-0s-185
Radionuclide Production Cross Section 0.000 To 2.323 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 5.9073 MeV
n-0s185.jeff3.3 Threshold 5.9061 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.03
1.02
1.01
1.00
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
87
Incident Energy (eV)
76-0s-185

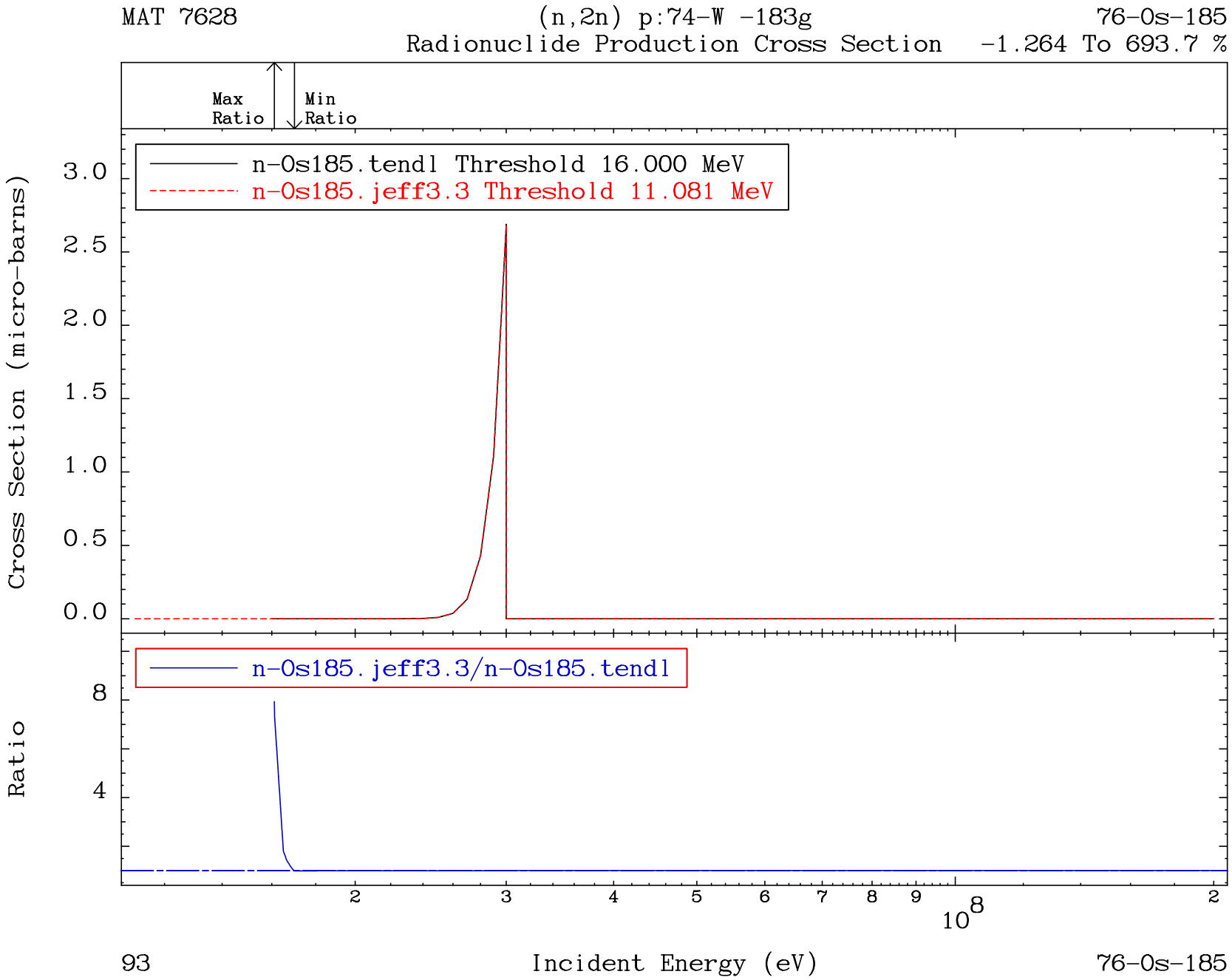

MAT 7628
(n,n') p:75-Re-184m5
76-0s-185
Radionuclide Production Cross Section 0.000 To 3.592 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 7.2000 MeV
n-0s185.jeff3.3 Threshold 7.2000 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.04
1.02
1.00
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
88
Incident Energy (eV)
76-0s-185

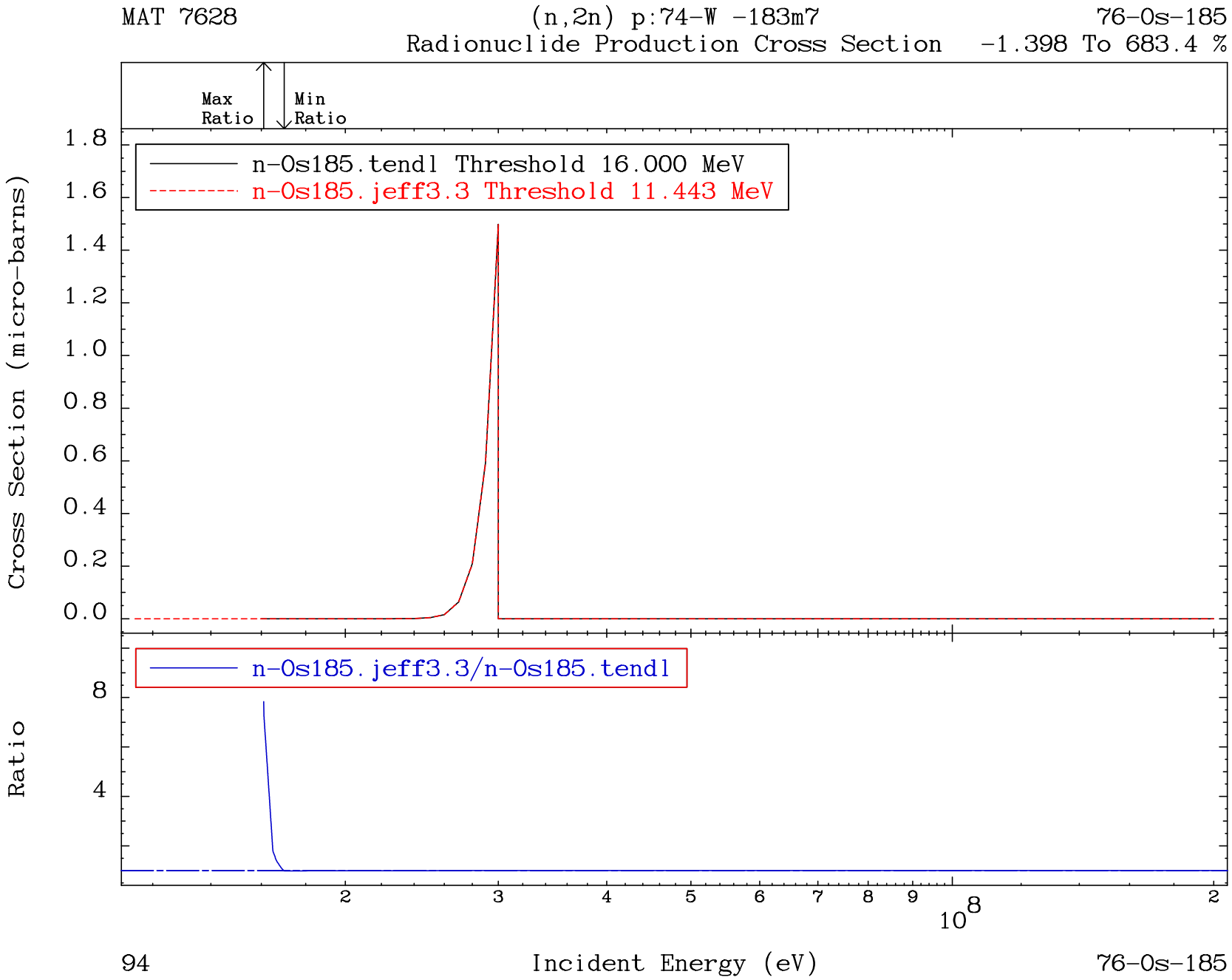

MAT 7628
(n,n') t:75-Re-182g
76-0s-185
Radionuclide Production Cross Section
-5.763 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 12.377 MeV
n-0s185.jeff3.3 Threshold 12.379 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
76-0s-185

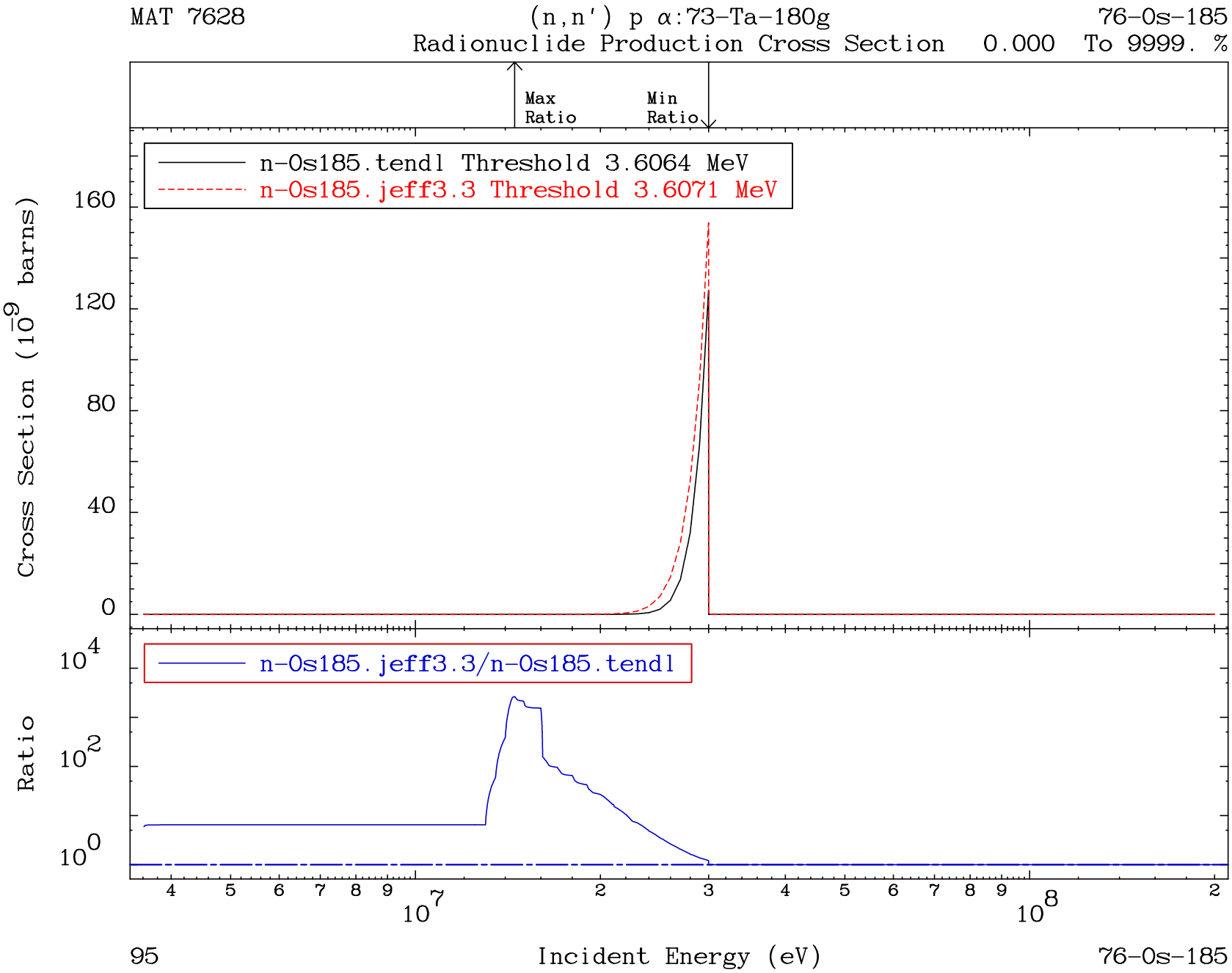

MAT 7628
(n,n') t:75-Re-182m2
76-0s-185
Radionuclide Production Cross Section -4.270 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 12.538 MeV
n-0s185.jeff3.3 Threshold 12.540 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
76-0s-185

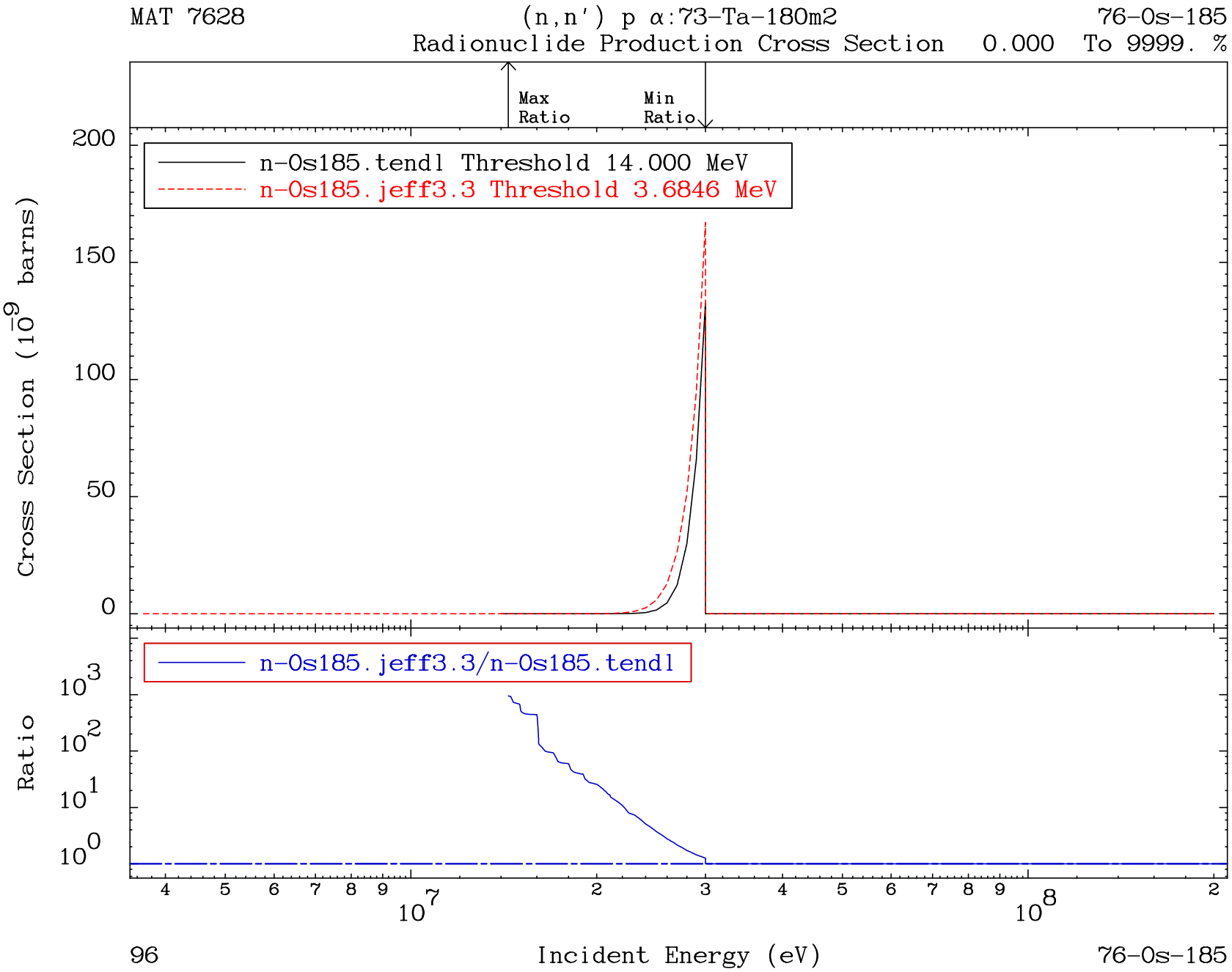

MAT 7628
(n,3n) p:75-Re-182g
76-0s-185
Radionuclide Production Cross Section
-0.889 To 0.542 %
Min
Ratio
n-0s185.tendl Threshold 20.905 MeV
n-0s185.jeff3.3 Threshold 20.907 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
76-0s-185

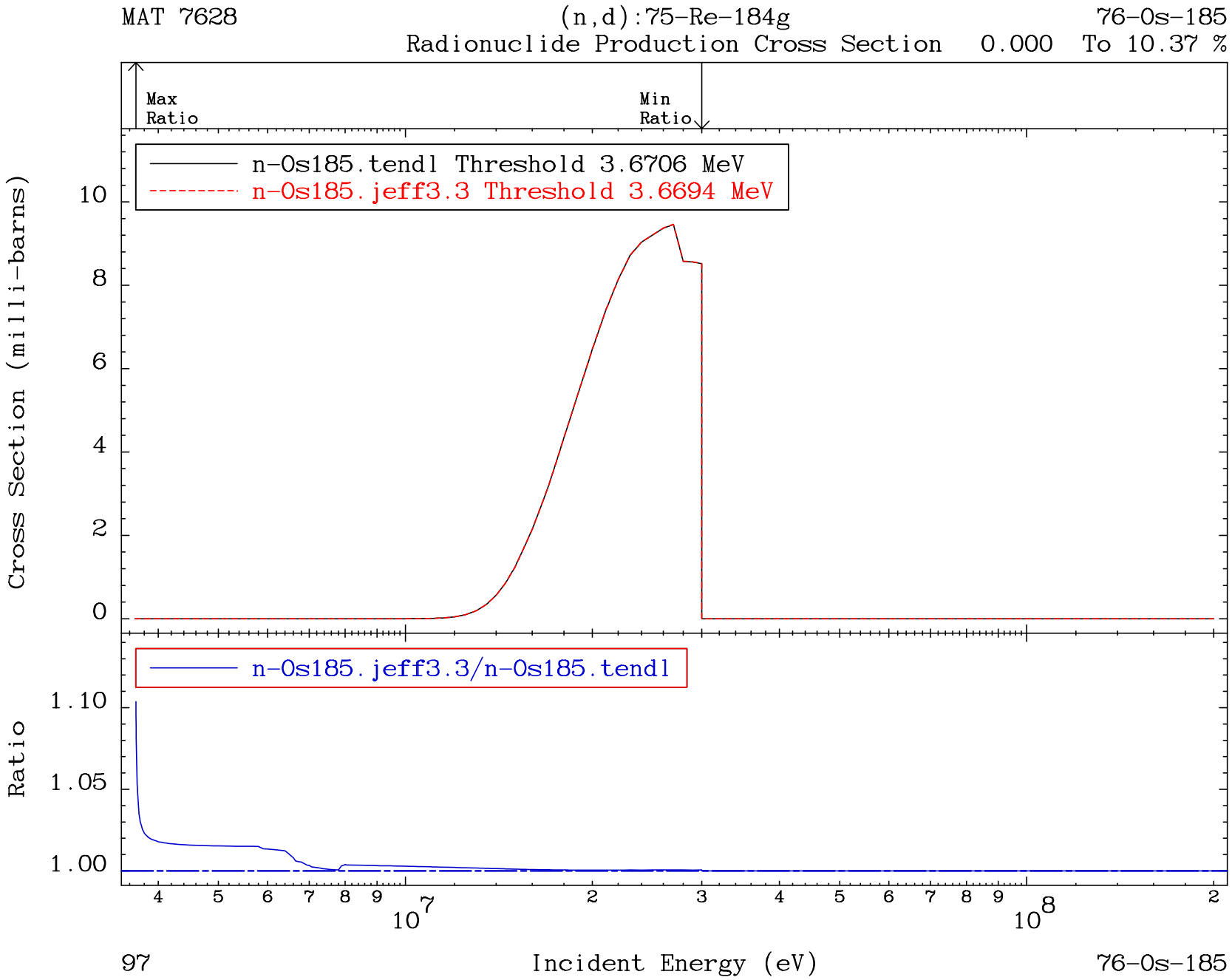

MAT 7628
(n,3n) p:75-Re-182m2
76-0s-185
Radionuclide Production Cross Section
-0.665 To 0.032 %
Max
Ratio
n-0s185.tendl Threshold 21.066 MeV
n-0s185.jeff3.3 Threshold 21.068 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
76-0s-185

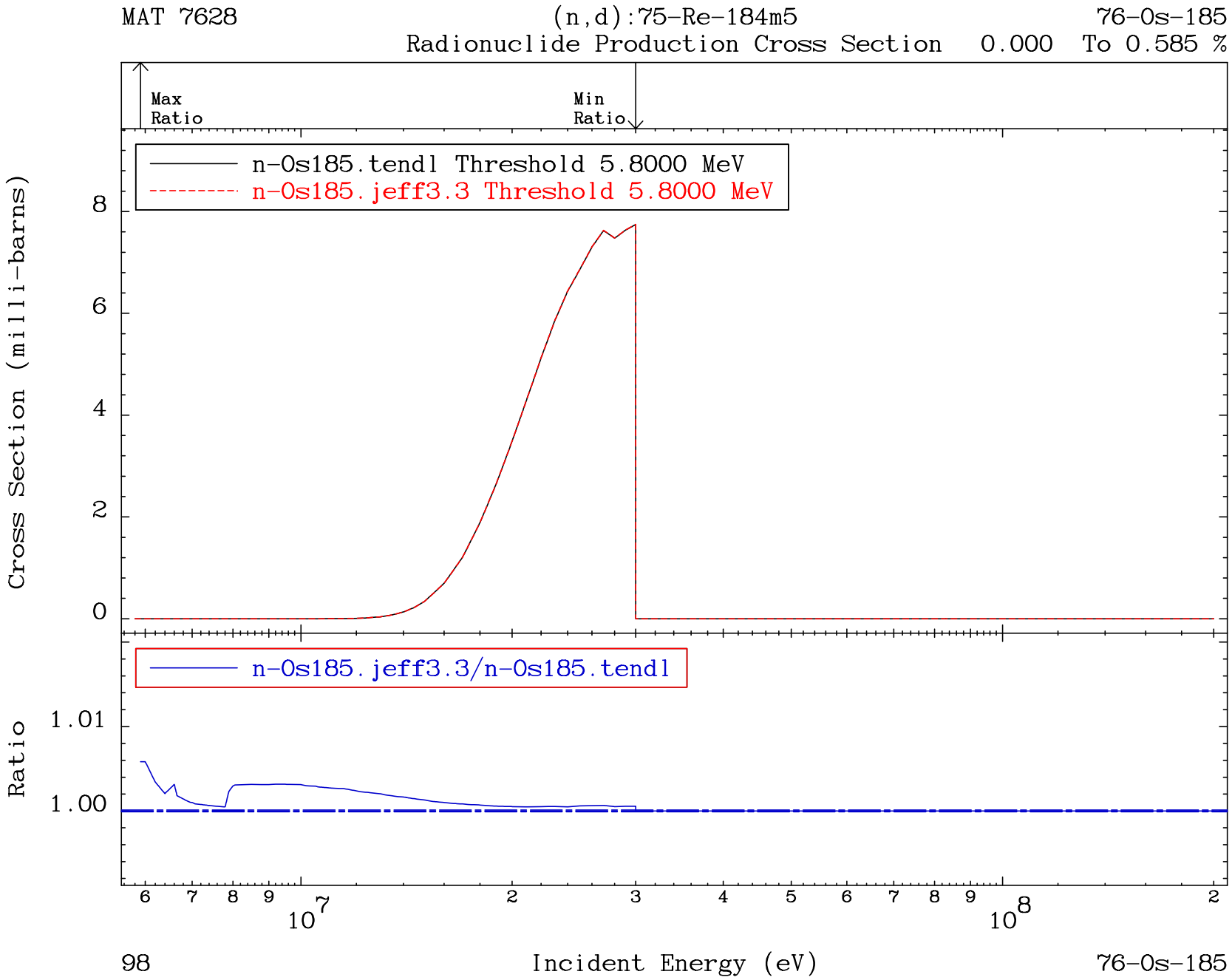

MAT 7628
(n,2n) p:74-W -183g
76-0s-185
Radionuclide Production Cross Section -1.264 To 693.7 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 16.000 MeV
n-0s185.jeff3.3 Threshold 11.081 MeV
Cross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
76-0s-185

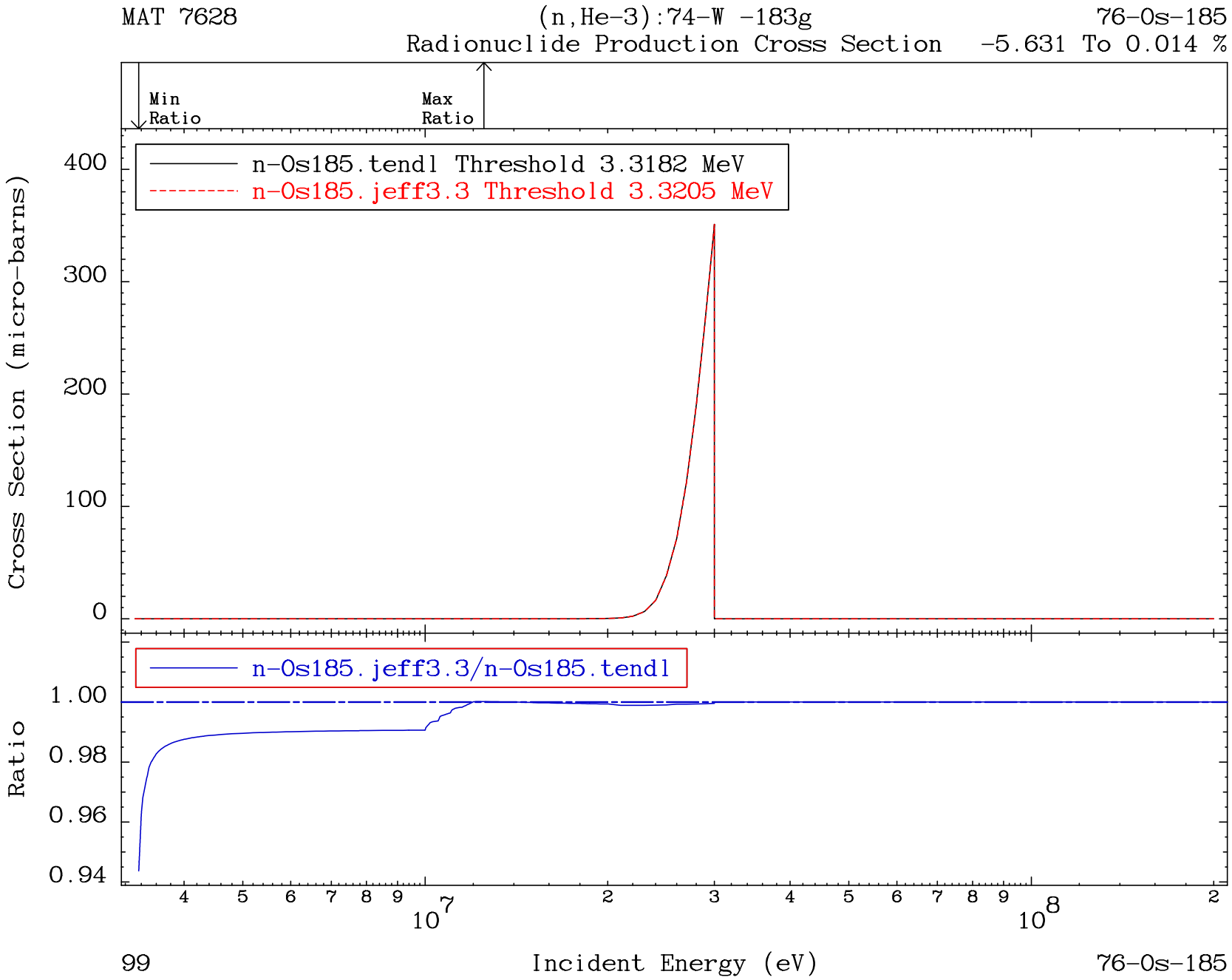

MAT 7628
(n,2n) p:74-W -183m7
76-Os-185
Radionuclide Production Cross Section -1.398 To 683.4 %
Max Ratio
Min Ratio
n-Os185.tendl Threshold 16.000 MeV
n-Os185.jeff3.3 Threshold 11.443 MeV
Cross Section (micro-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Os185.jeff3.3/n-Os185.tendl
Ratio
8
4
2
3
4
5
6
7
8
9
2
10^8
94
Incident Energy (eV)
76-Os-185

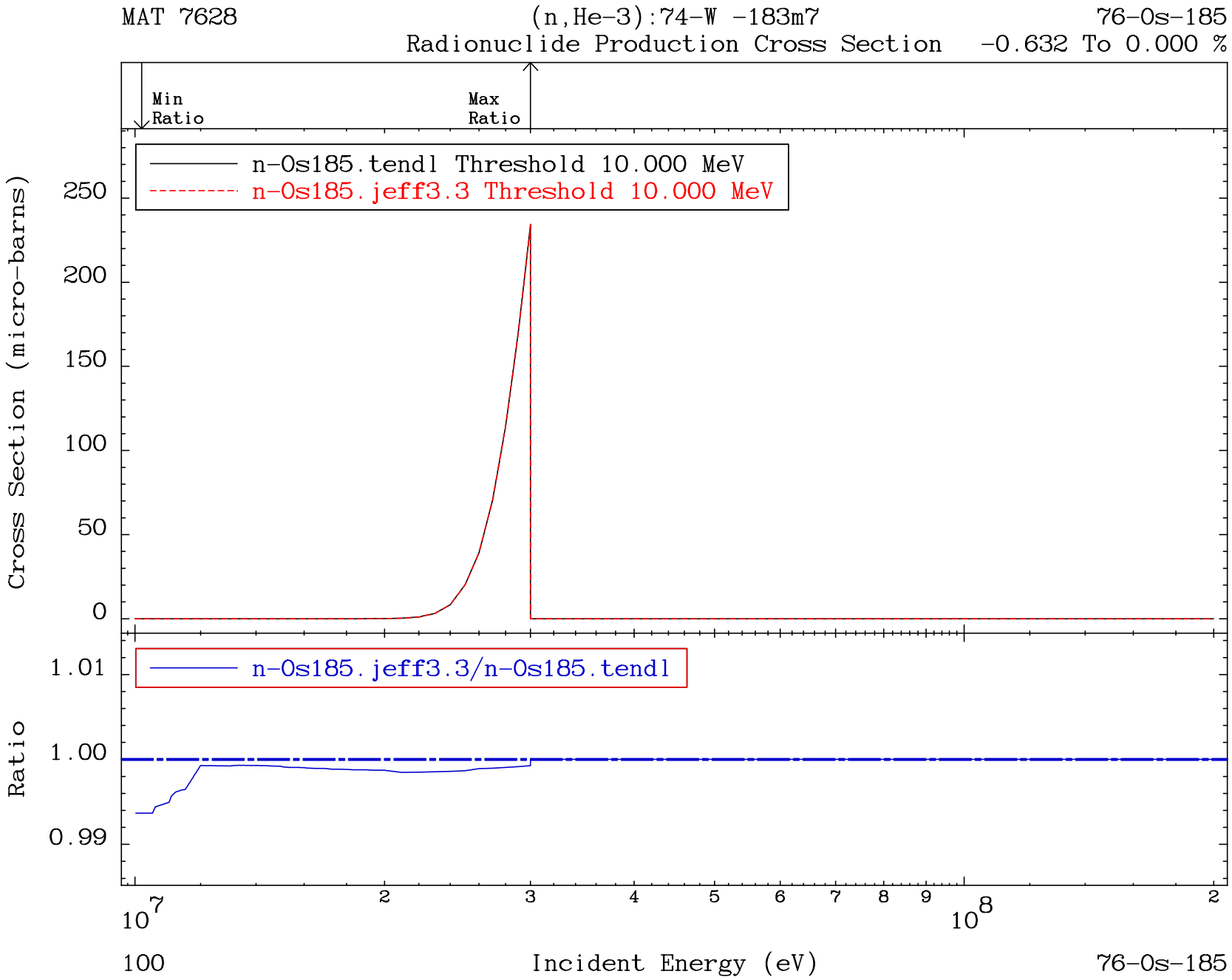

MAT 7628
(n,n') p α:73-Ta-180g
76-0s-185
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 3.6064 MeV
n-0s185.jeff3.3 Threshold 3.6071 MeV
Cross Section (10^{-9} barns)
160
120
80
40
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^4
10^2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
95
Incident Energy (eV)
76-0s-185

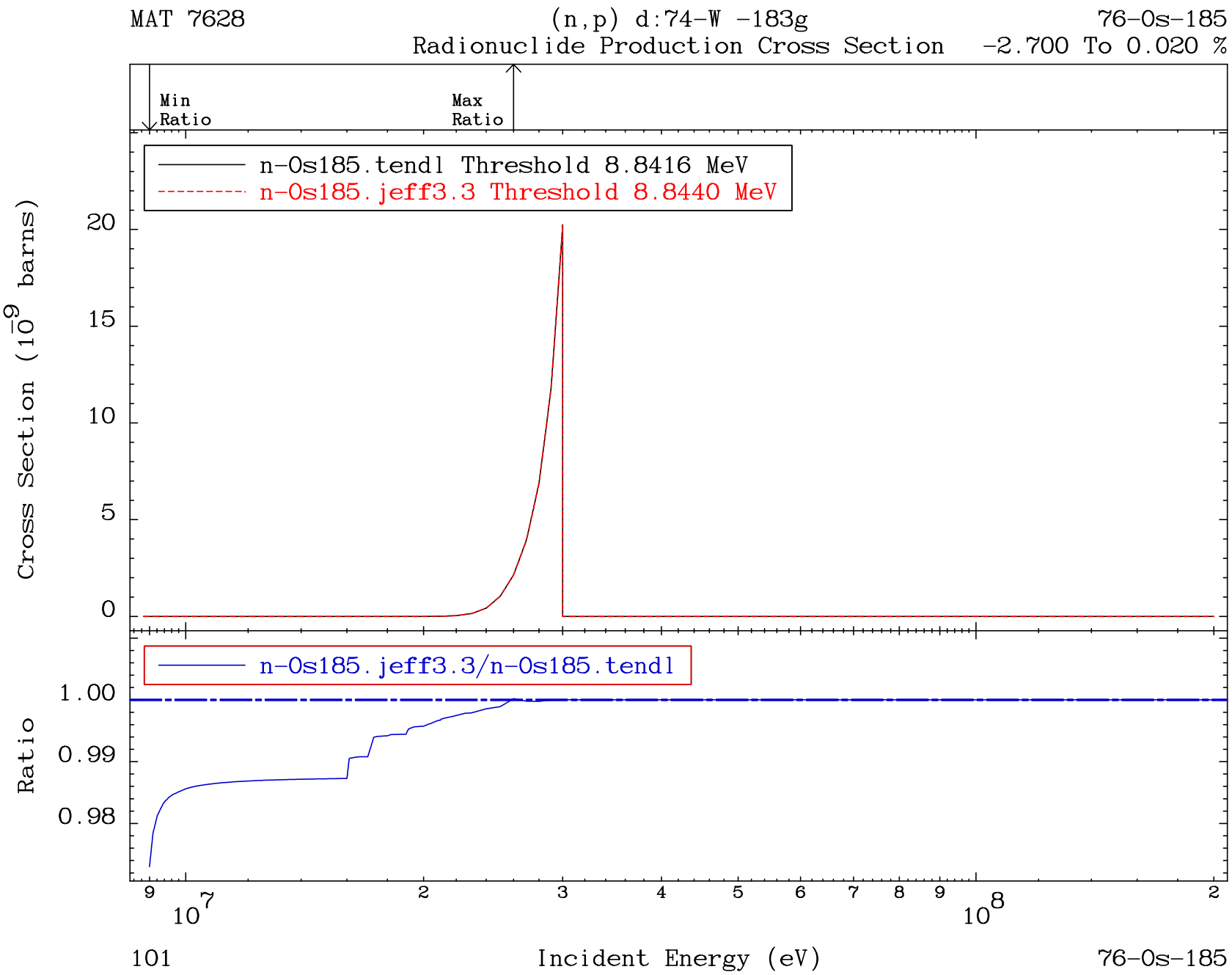

MAT 7628
(n,n') p α:73-Ta-180m2
76-0s-185
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 14.000 MeV
n-0s185.jeff3.3 Threshold 3.6846 MeV
Cross Section (10^{-9} barns)
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^3
10^2
10^1
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
76-0s-185

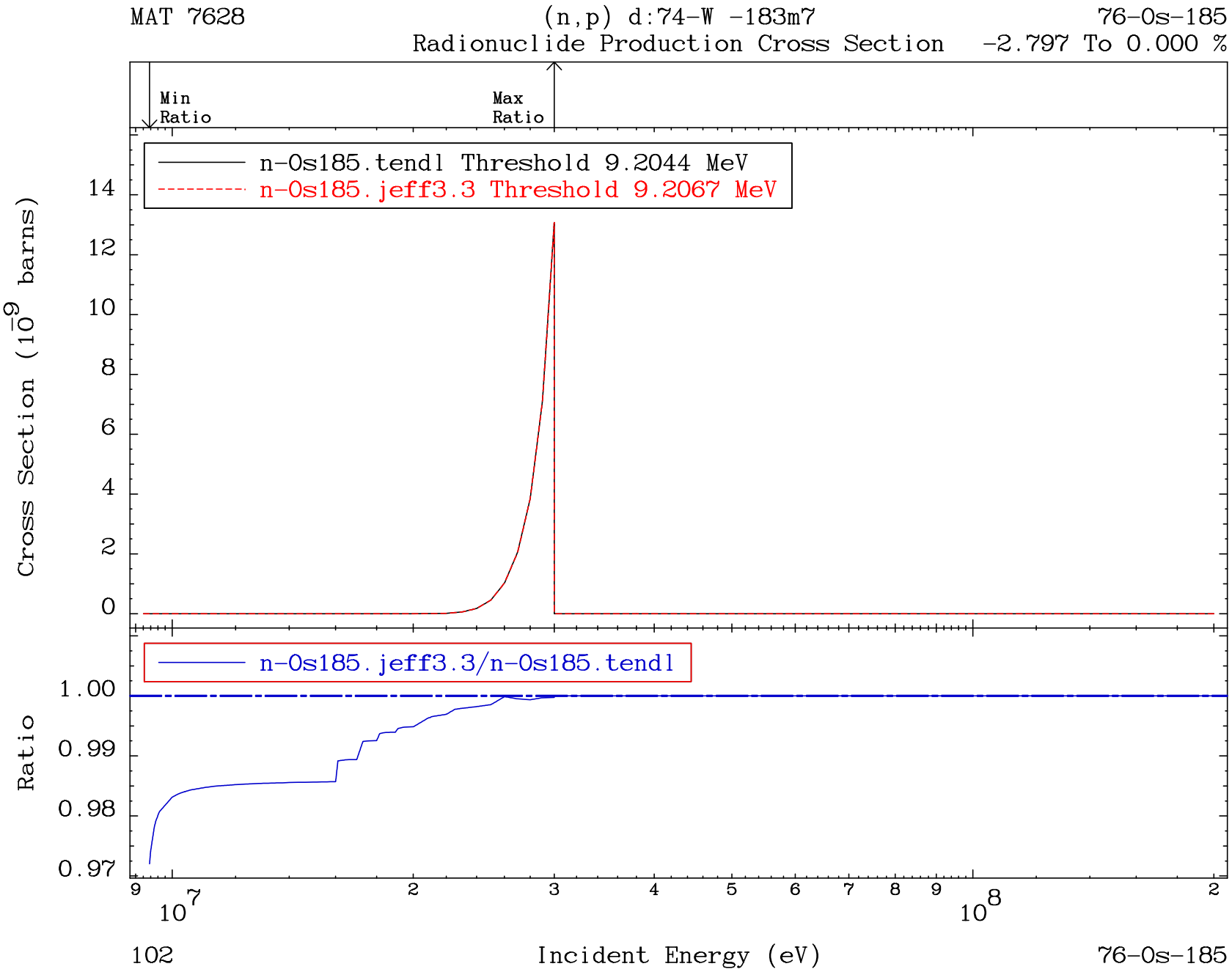

MAT 7628
(n,d):75-Re-184g
76-0s-185
Radionuclide Production Cross Section 0.000 To 10.37 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 3.6706 MeV
n-0s185.jeff3.3 Threshold 3.6694 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
1.05
1.10
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
76-0s-185

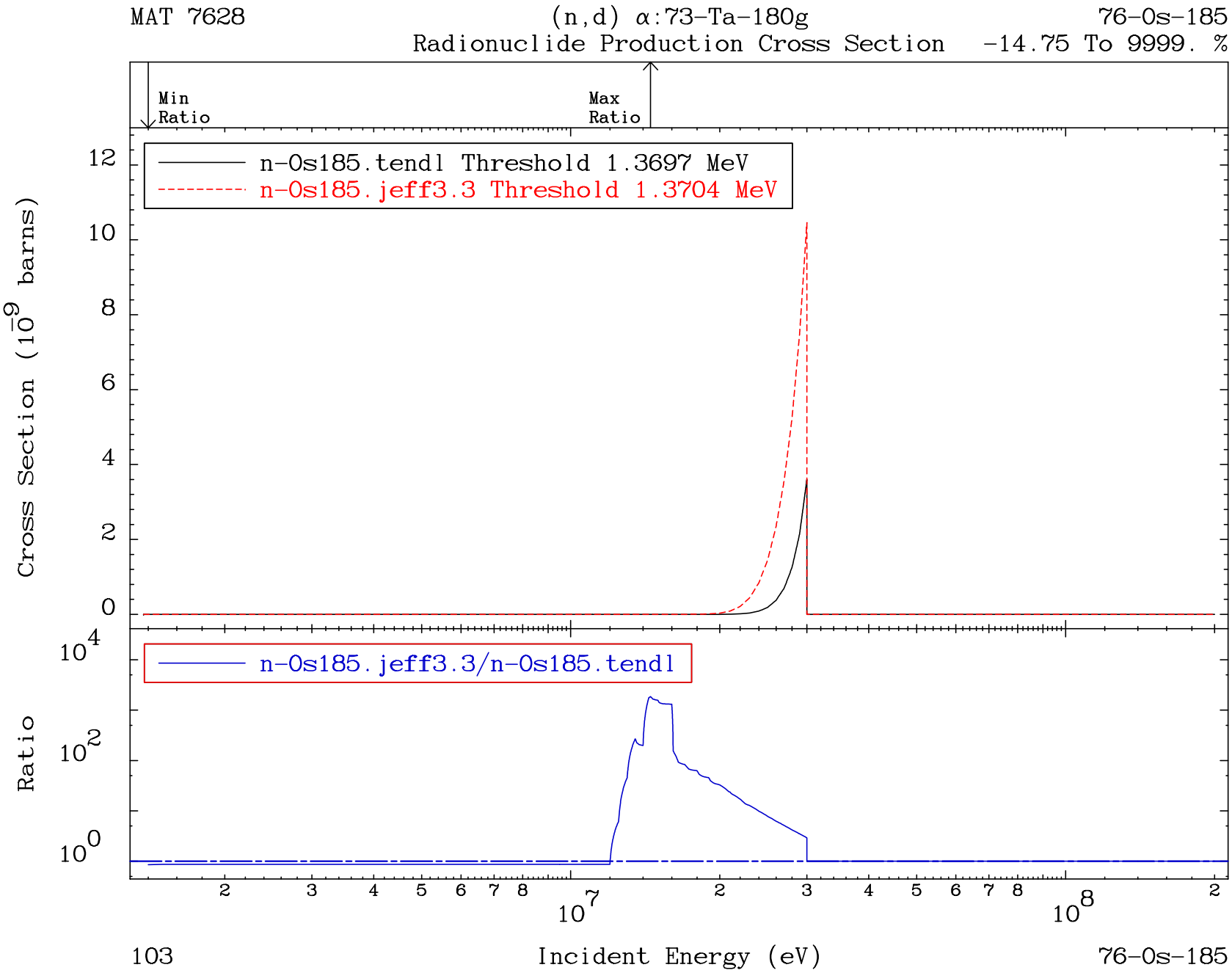

MAT 7628
(n,d):75-Re-184m5
76-0s-185
Radionuclide Production Cross Section 0.000 To 0.585 %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 5.8000 MeV
n-0s185.jeff3.3 Threshold 5.8000 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
1.01
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
98
Incident Energy (eV)
76-0s-185

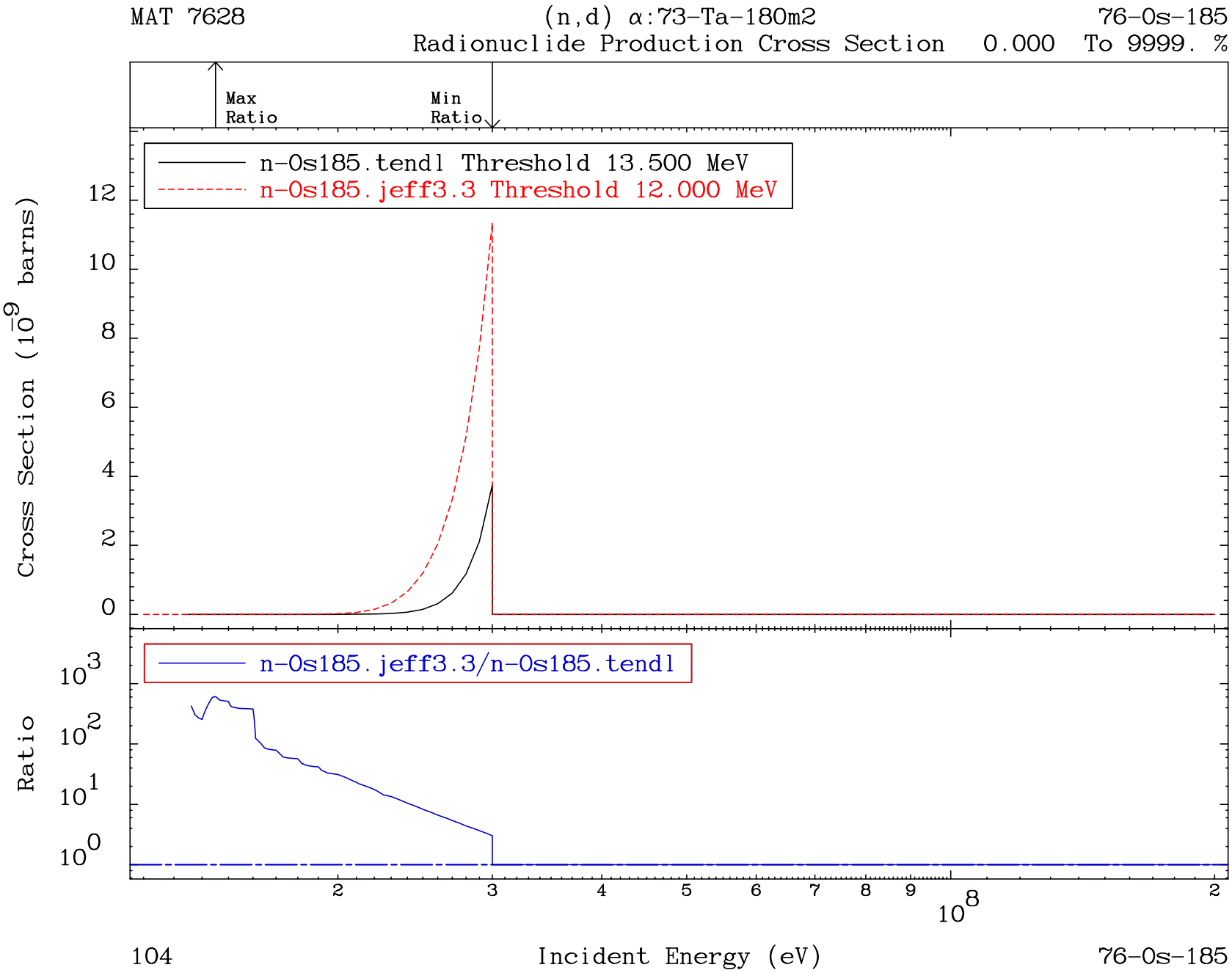

MAT 7628
(n,He-3):74-W -183g
76-0s-185
Radionuclide Production Cross Section -5.631 To 0.014 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 3.3182 MeV
n-0s185.jeff3.3 Threshold 3.3205 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.98
0.96
0.94
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
99
Incident Energy (eV)
76-0s-185


MAT 7628
(n,He-3):74-W -183m7
76-0s-185
Radionuclide Production Cross Section -0.632 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 10.000 MeV
n-0s185.jeff3.3 Threshold 10.000 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
100
Incident Energy (eV)
76-0s-185


MAT 7628
(n,p) d:74-W -183g
76-0s-185
Radionuclide Production Cross Section
-2.700 To 0.020 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 8.8416 MeV
n-0s185.jeff3.3 Threshold 8.8440 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.99
0.98
9
10^7
2
3
4
5
6
7
8
9
10^8
2
101
Incident Energy (eV)
76-0s-185


MAT 7628
(n,p) d:74-W -183m7
76-0s-185
Radionuclide Production Cross Section -2.797 To 0.000 %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 9.2044 MeV
n-0s185.jeff3.3 Threshold 9.2067 MeV
Cross Section (10^{-9} barns)
14
12
10
8
6
4
2
0
n-0s185.jeff3.3/n-0s185.tendl
Ratio
1.00
0.99
0.98
0.97
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
102
Incident Energy (eV)
76-0s-185


MAT 7628
(n,d) α:73-Ta-180g
76-0s-185
Radionuclide Production Cross Section -14.75 To 9999. %
Min Ratio
Max Ratio
n-0s185.tendl Threshold 1.3697 MeV
n-0s185.jeff3.3 Threshold 1.3704 MeV
Cross Section (10^{-9} barns)
n-0s185.jeff3.3/n-0s185.tendl
Ratio
Incident Energy (eV)
103
76-0s-185


MAT 7628
(n,d) α:73-Ta-180m2
76-0s-185
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
n-0s185.tendl Threshold 13.500 MeV
n-0s185.jeff3.3 Threshold 12.000 MeV
Cross Section (10^{-9} barns)
0
2
4
6
8
10
12
n-0s185.jeff3.3/n-0s185.tendl
Ratio
10^0
10^1
10^2
10^3
2
3
4
5
6
7
8
9
10^8
2
104
Incident Energy (eV)
76-0s-185