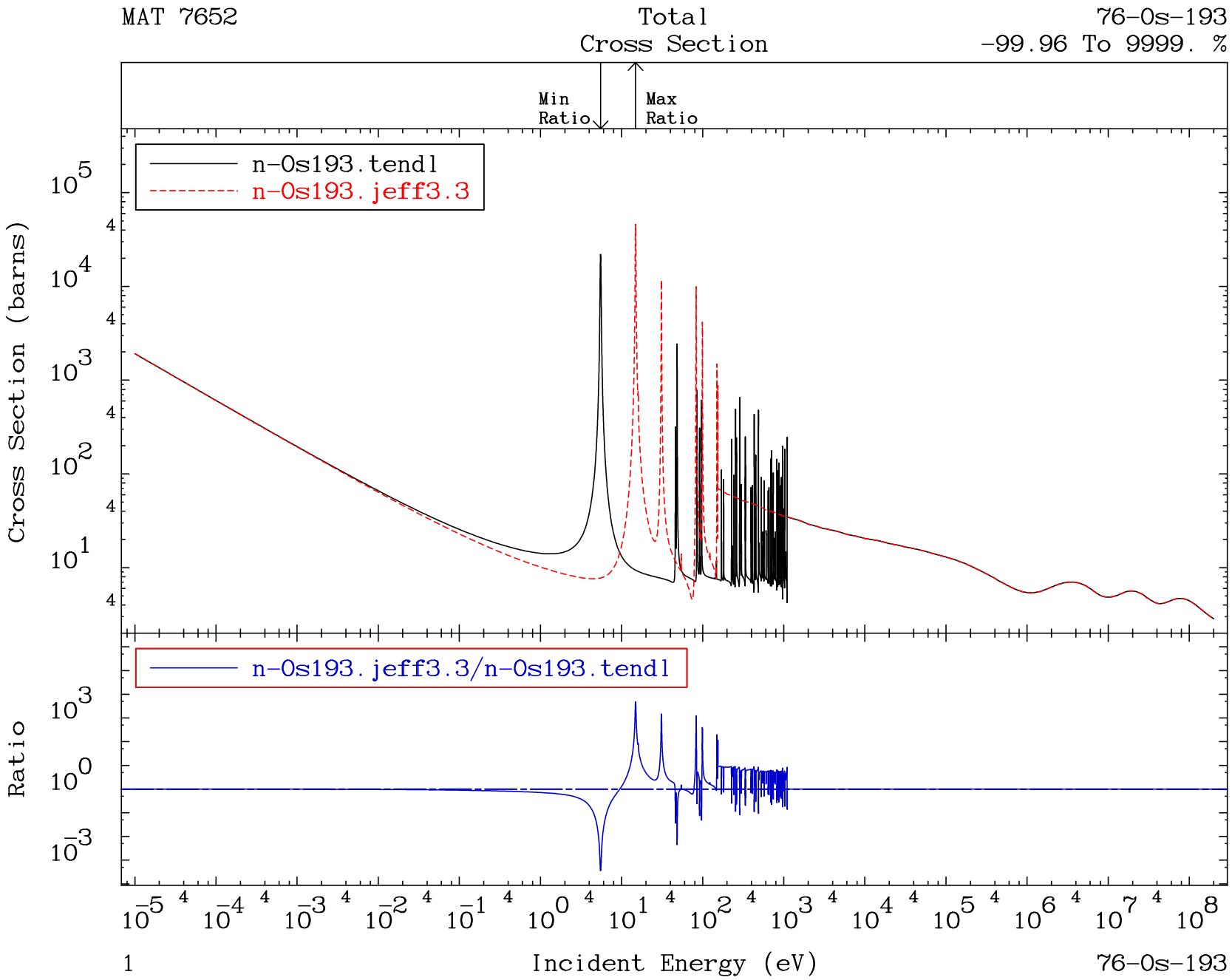
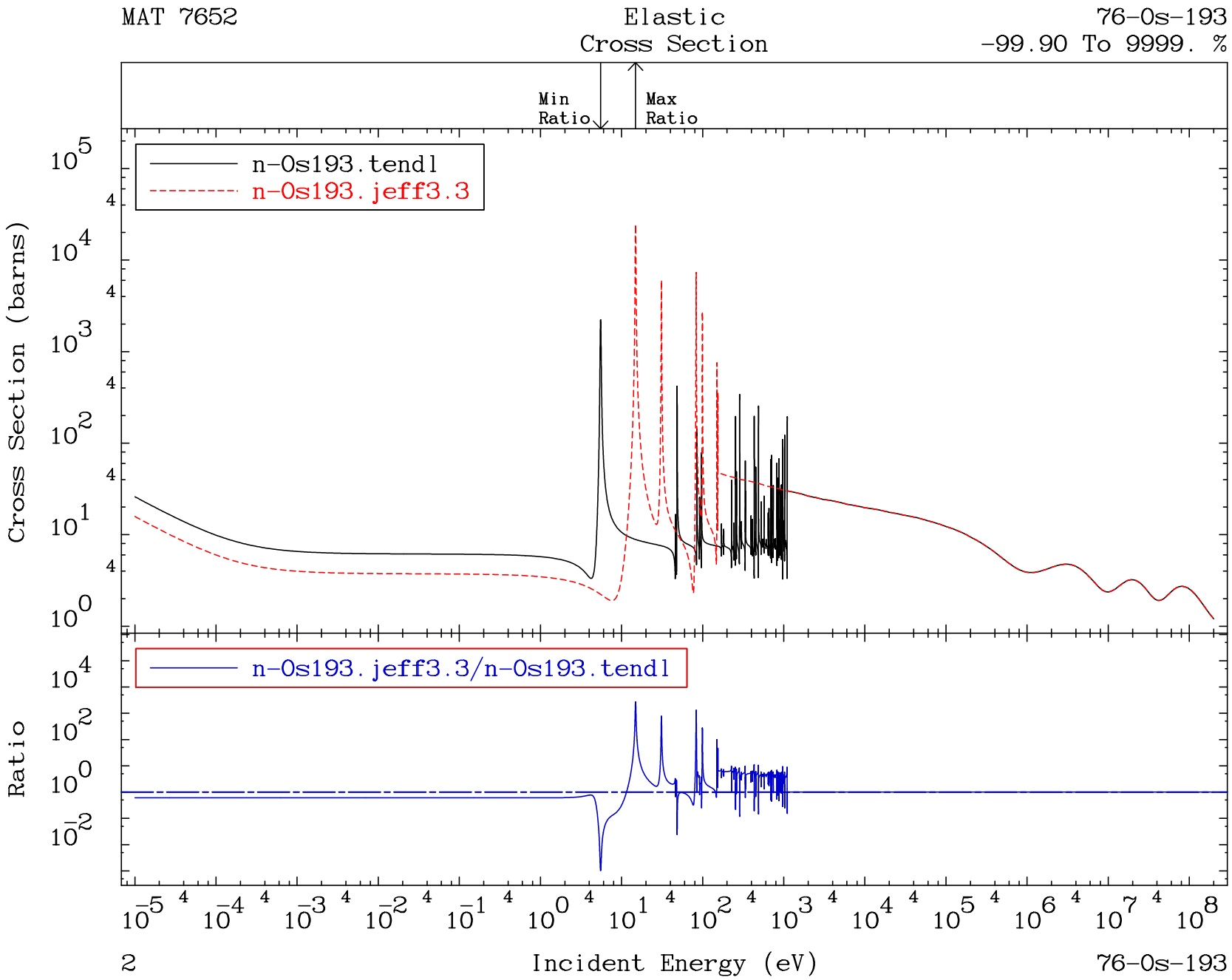
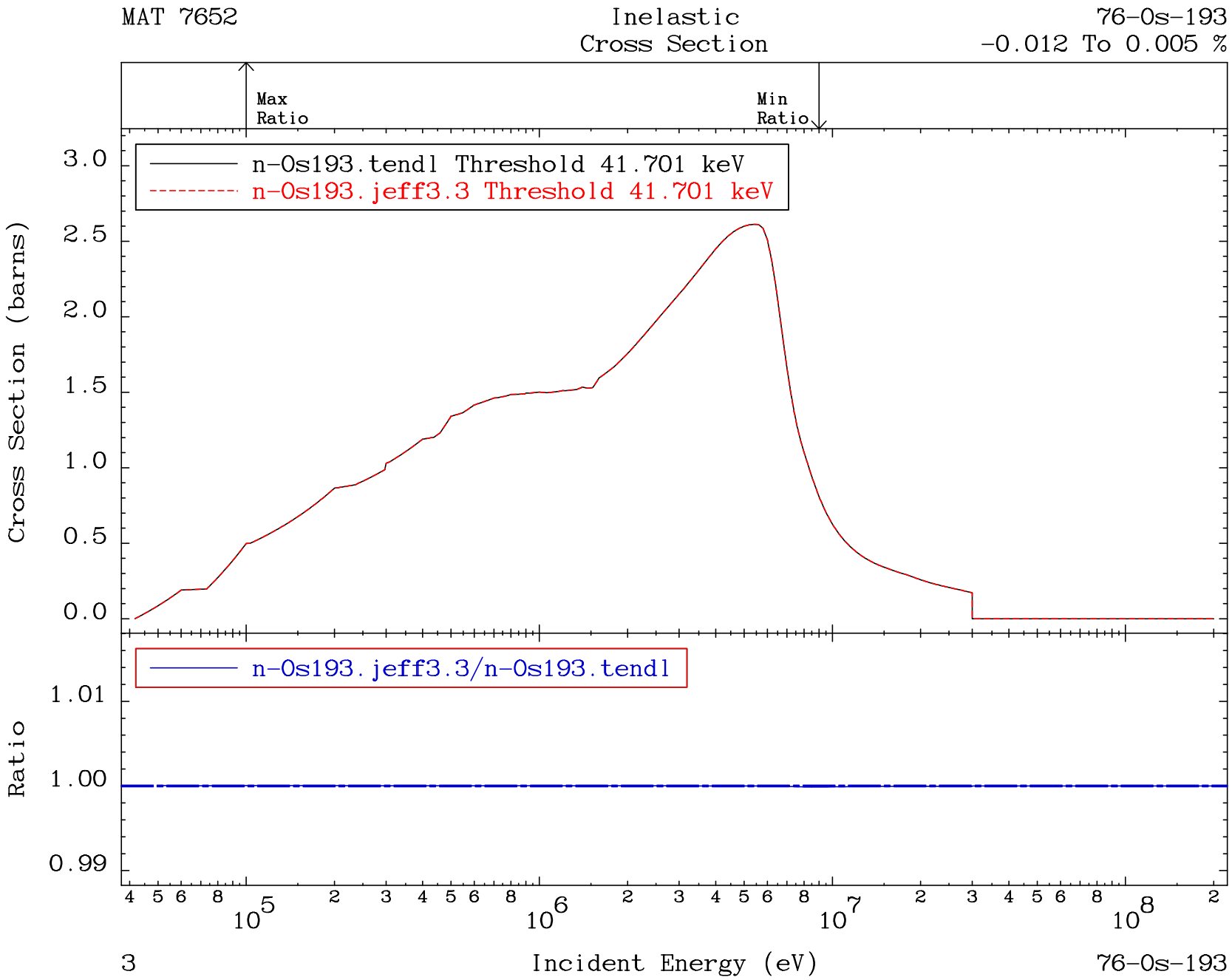
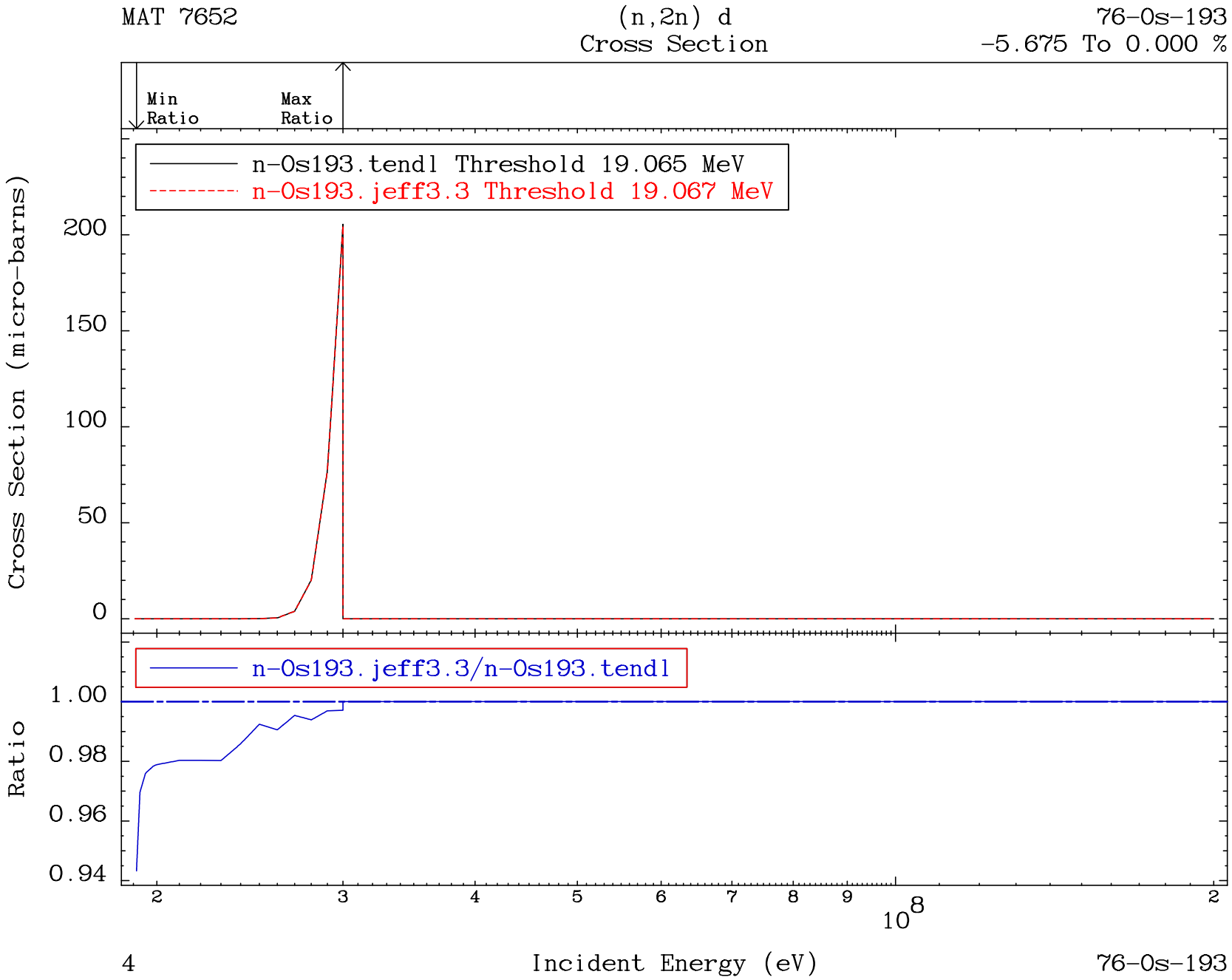
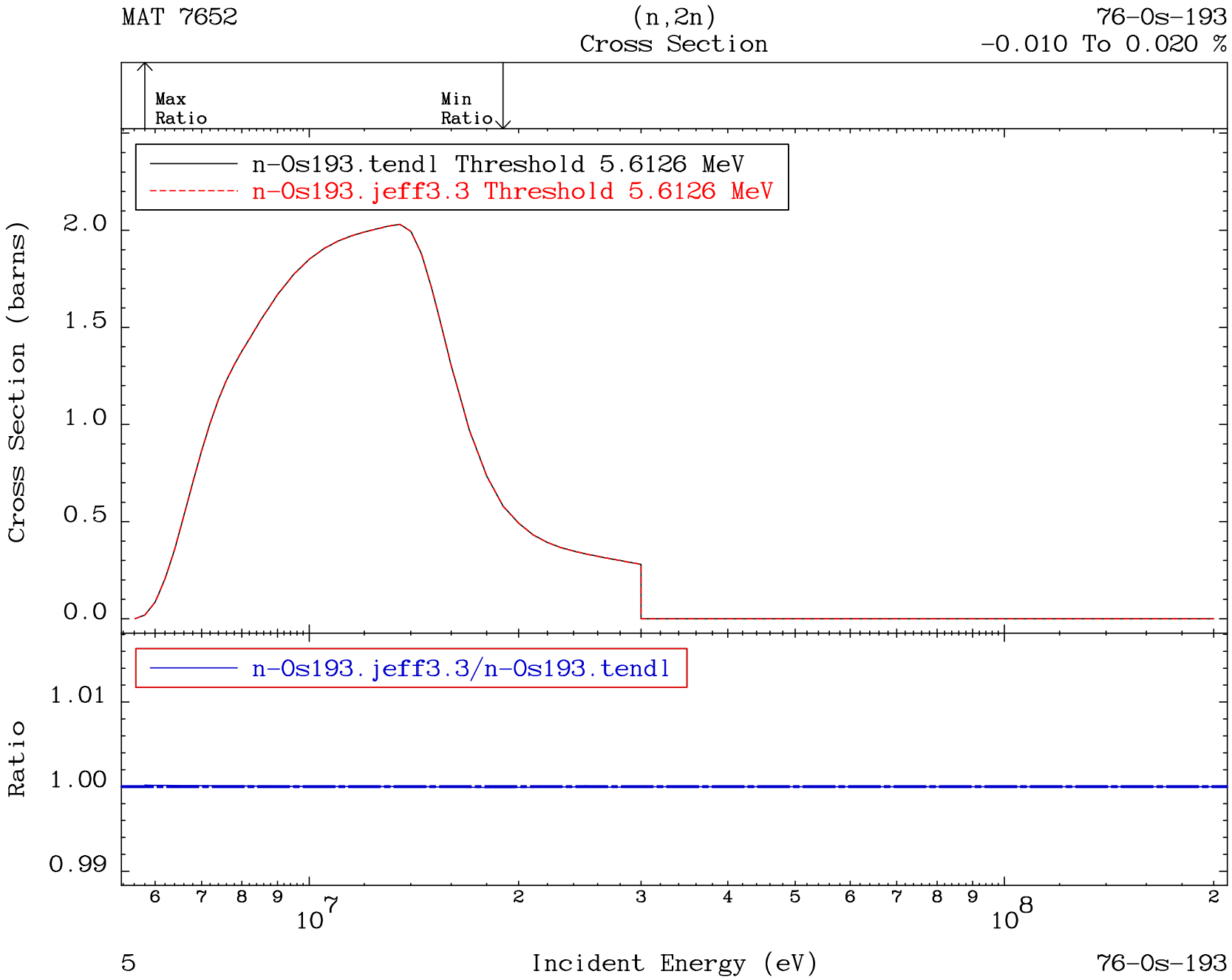
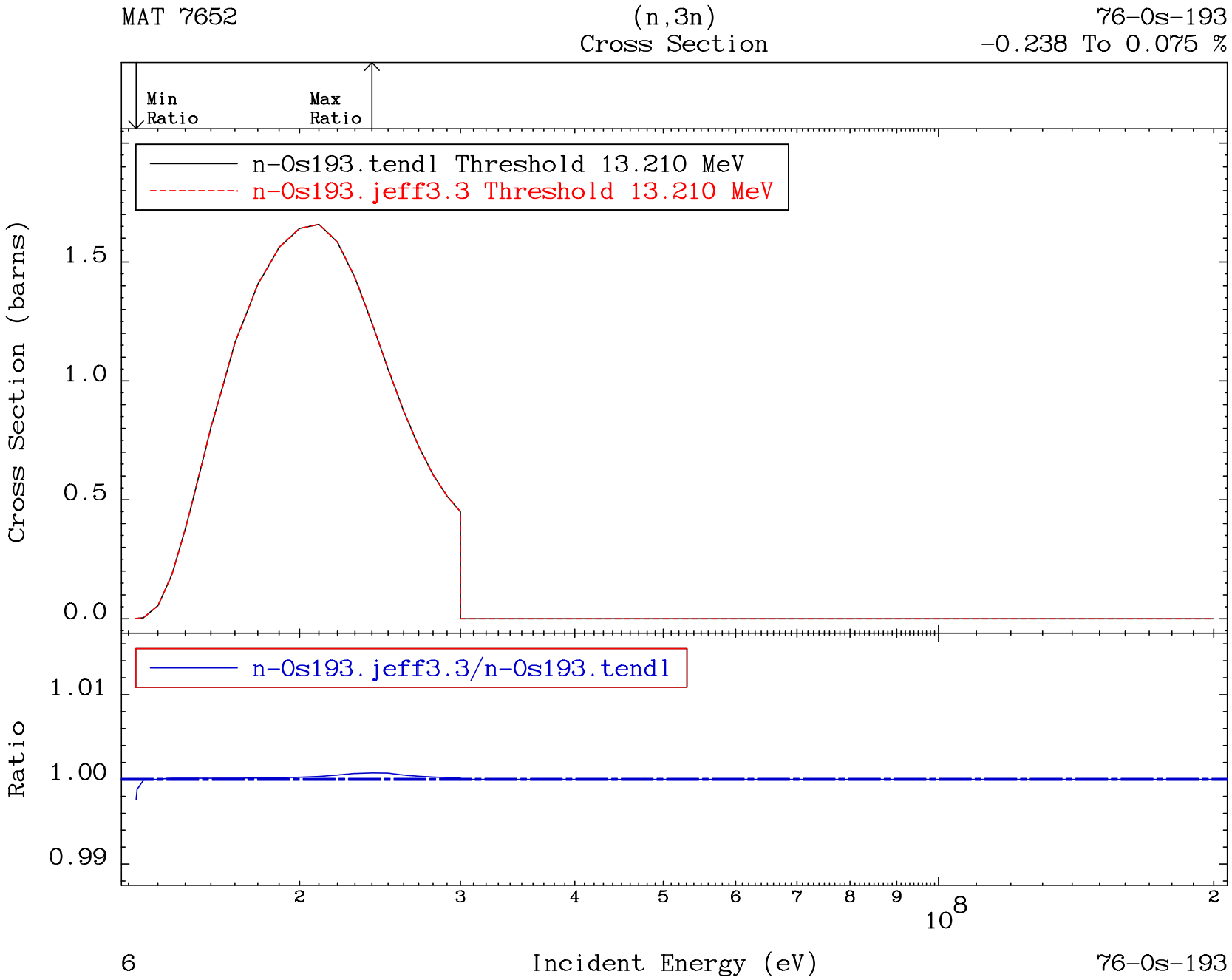

MAT 7652
Total
Cross Section
76-0s-193
-99.96 To 9999. %
Min
Ratio
Max
Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
1
76-0s-193

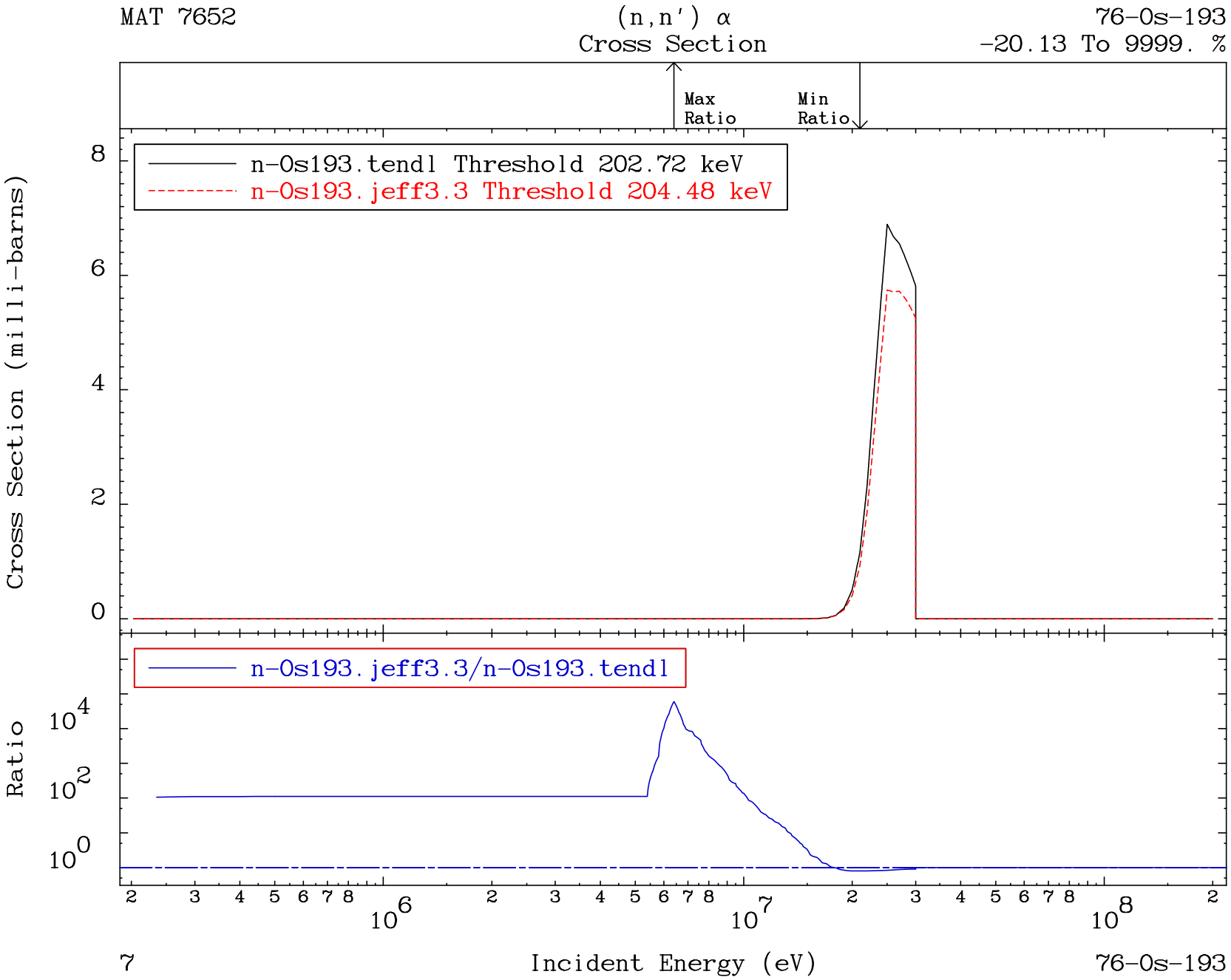

MAT 7652
Elastic
Cross Section
76-0s-193
-99.90 To 9999. %
Min
Ratio
Max
Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
2
76-0s-193

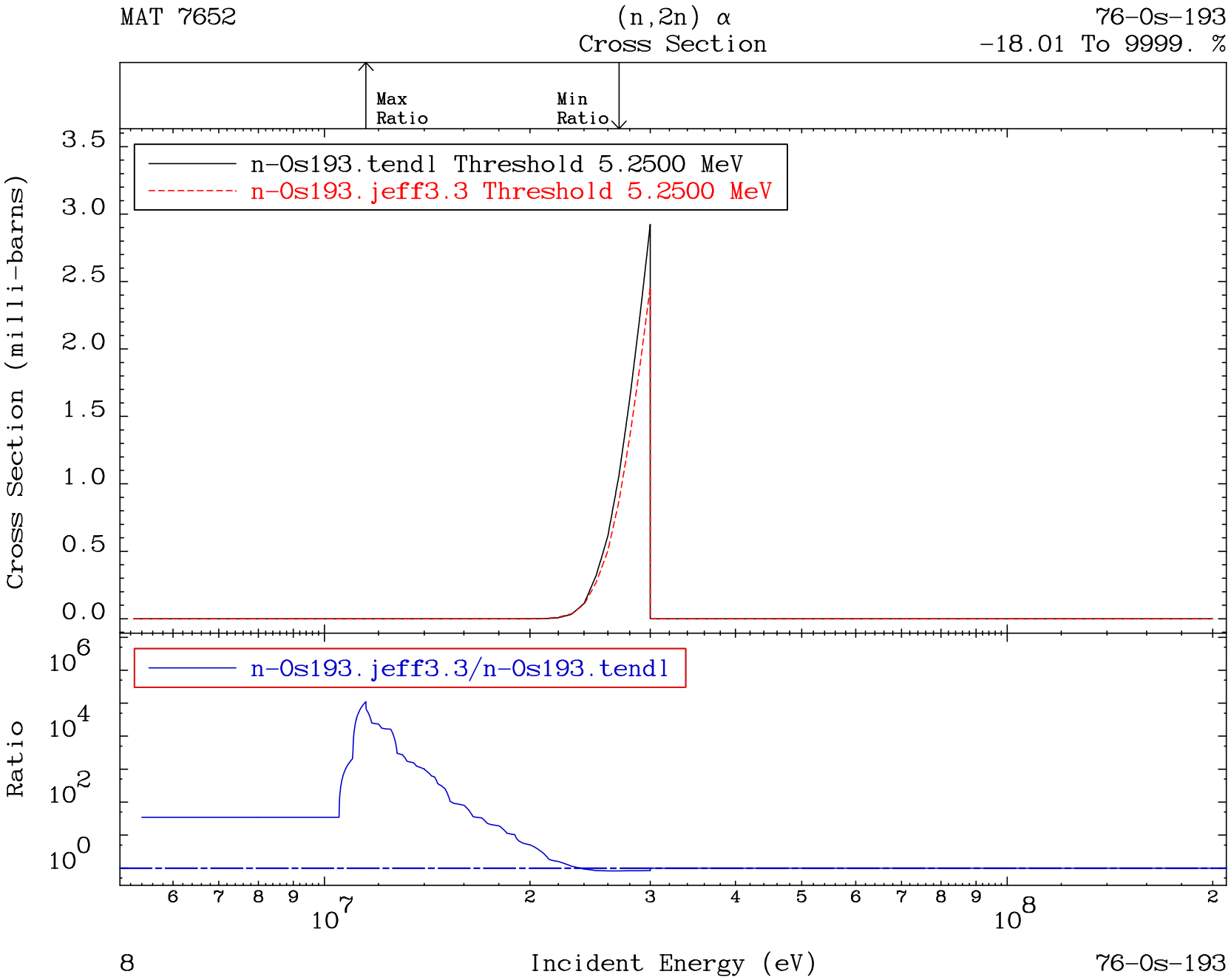

MAT 7652
Inelastic
Cross Section
76-0s-193
-0.012 To 0.005 %
Max
Ratio
Min
Ratio
n-0s193.tendl Threshold 41.701 keV
n-0s193.jeff3.3 Threshold 41.701 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
4 5 6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
3
76-0s-193

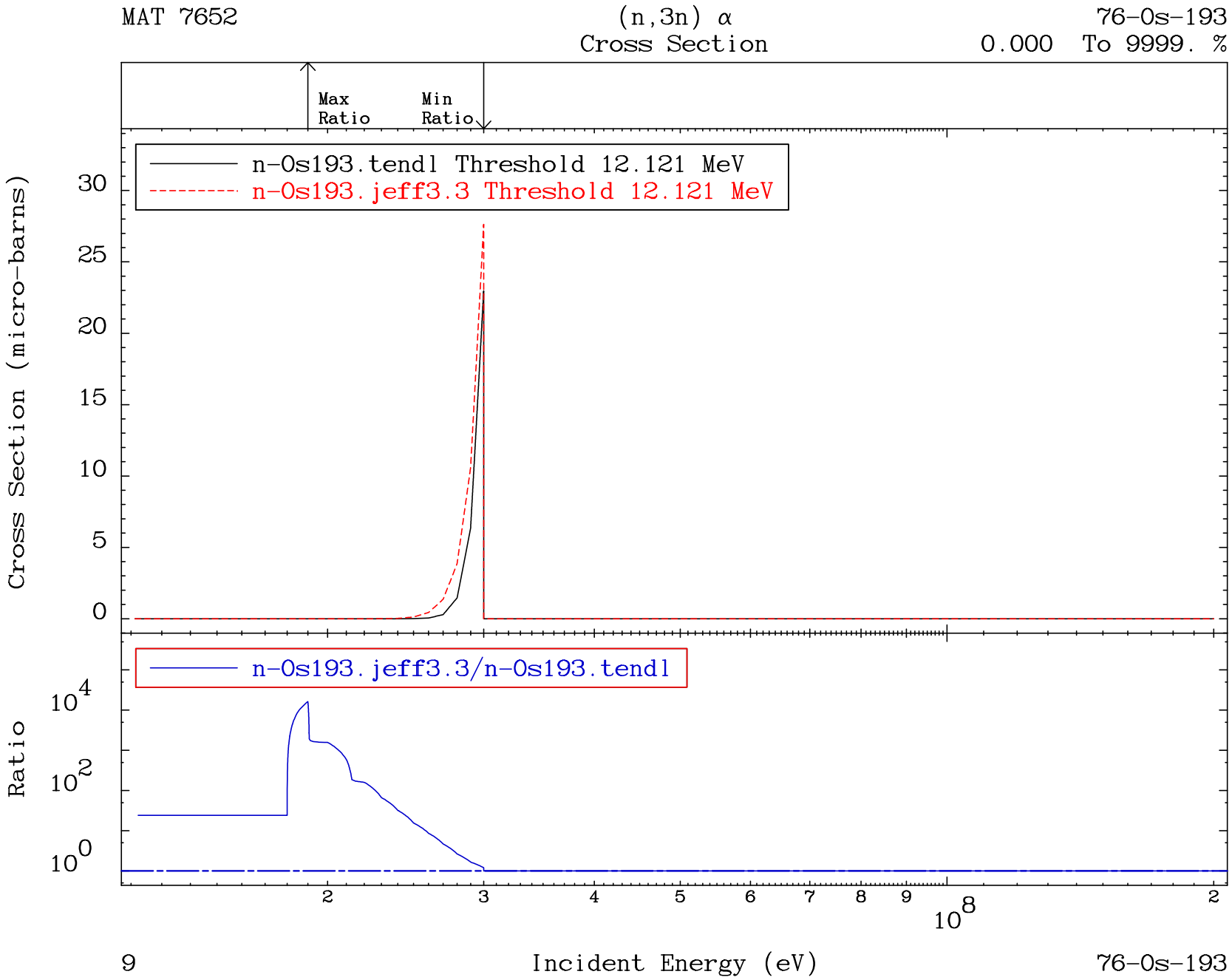

MAT 7652
(n,2n) d
Cross Section
76-0s-193
-5.675 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 19.065 MeV
n-0s193.jeff3.3 Threshold 19.067 MeV
Cross Section (micro-barns)
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.98
0.96
0.94
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
76-0s-193

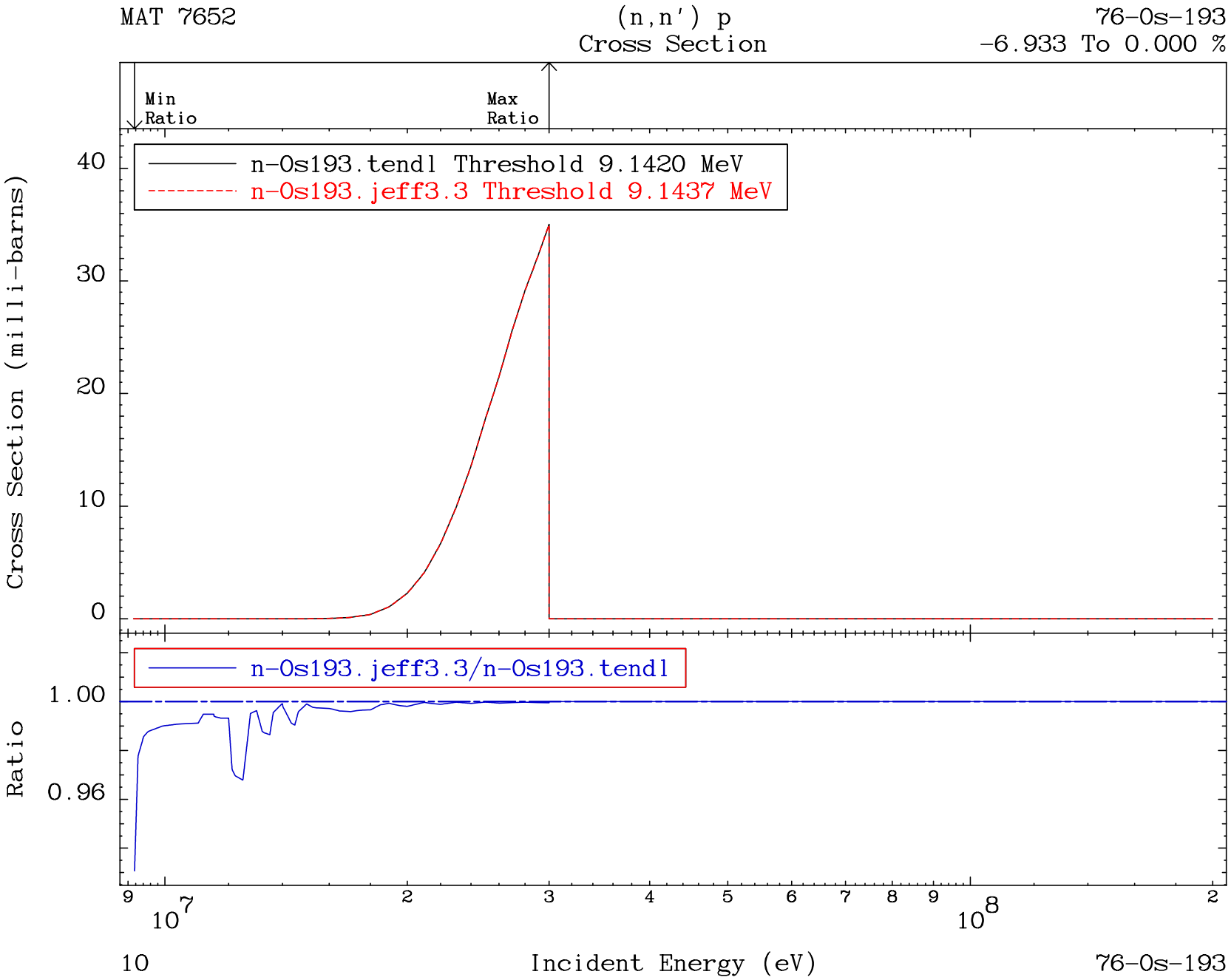

MAT 7652
(n,2n)
Cross Section
76-0s-193
-0.010 To 0.020 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 5.6126 MeV
n-0s193.jeff3.3 Threshold 5.6126 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
76-0s-193

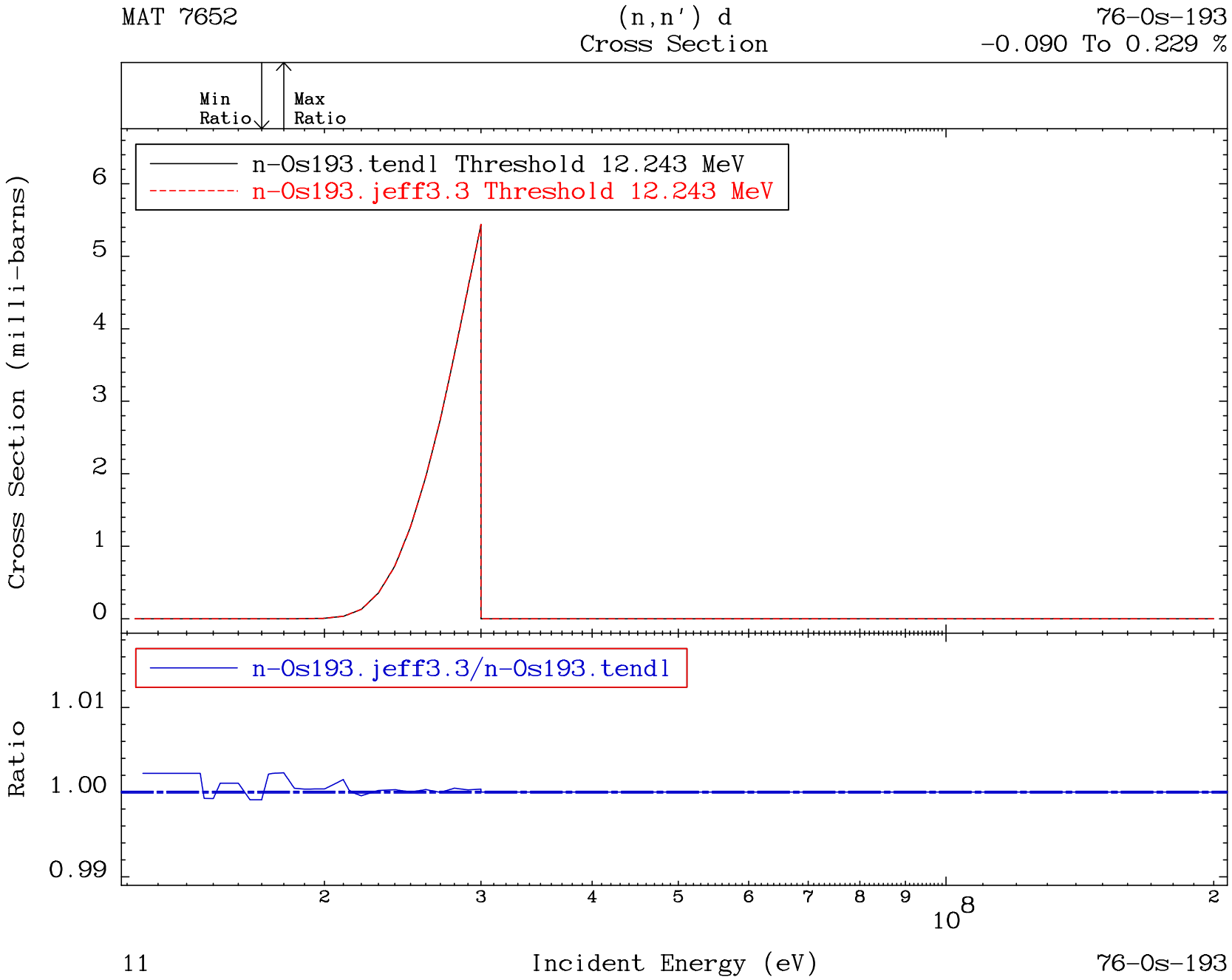

MAT 7652
(n,3n)
Cross Section
76-0s-193
-0.238 To 0.075 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 13.210 MeV
n-0s193.jeff3.3 Threshold 13.210 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
76-0s-193

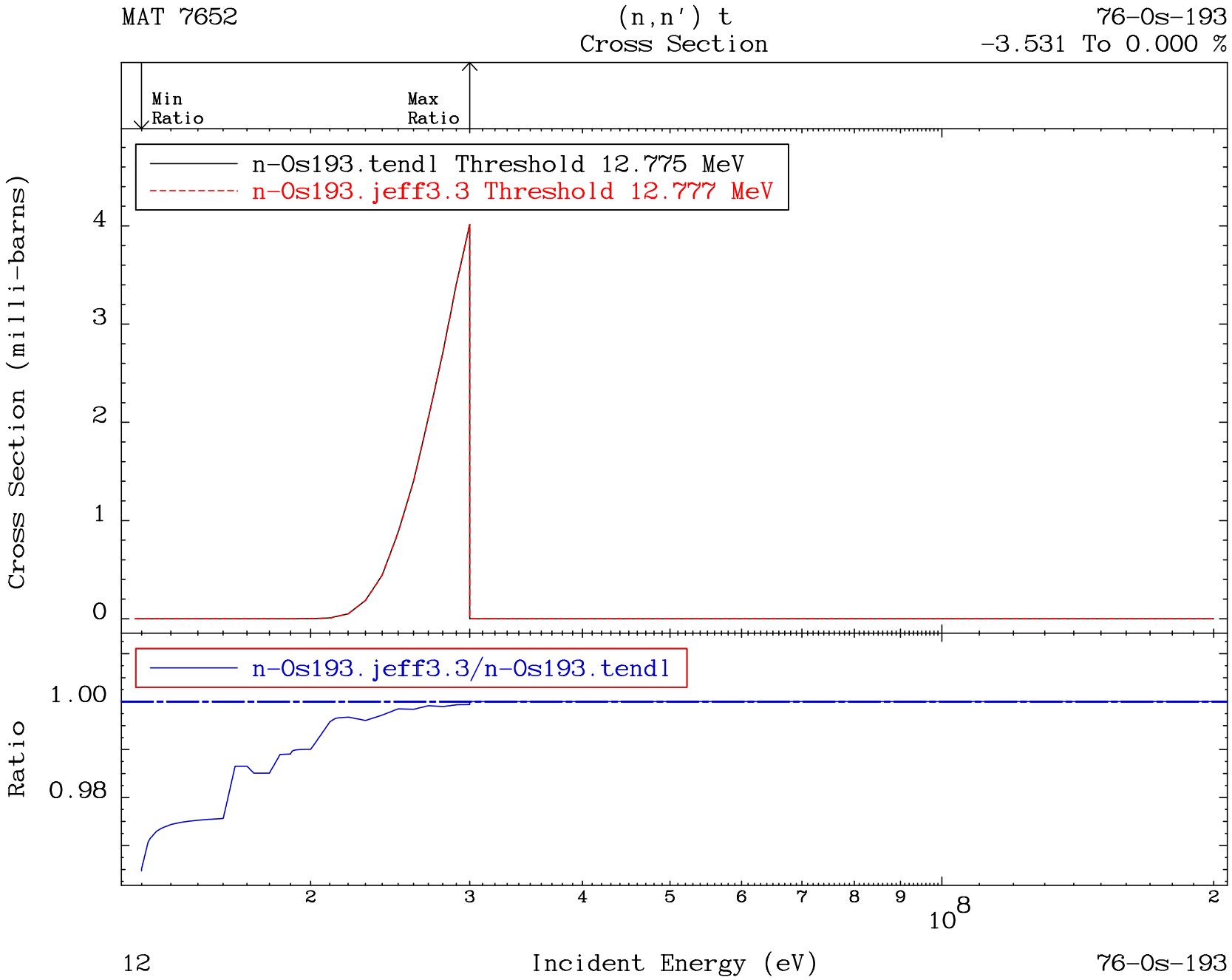

MAT 7652
(n,n') α
Cross Section
76-0s-193
-20.13 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 202.72 keV
n-0s193.jeff3.3 Threshold 204.48 keV
Cross Section (milli-barns)
0
2
4
6
8
n-0s193.jeff3.3/n-0s193.tendl
Ratio
10^0
10^2
10^4
2 3 4 5 6 7 8
10^6
10^7
10^8
7
Incident Energy (eV)
76-0s-193

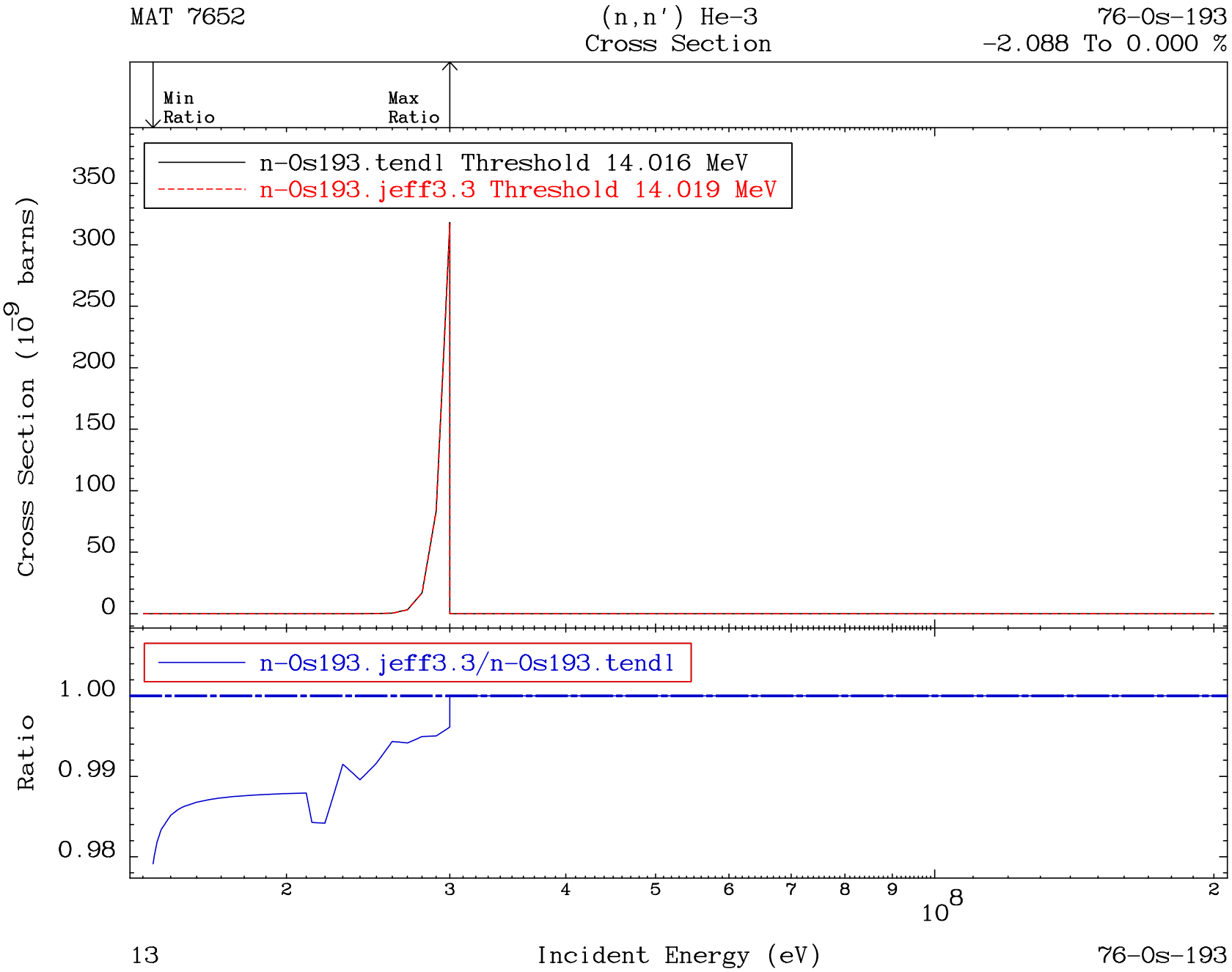

MAT 7652
(n,2n) α
Cross Section
76-0s-193
-18.01 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 5.2500 MeV
n-0s193.jeff3.3 Threshold 5.2500 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
10^6
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
8
Incident Energy (eV)
76-0s-193

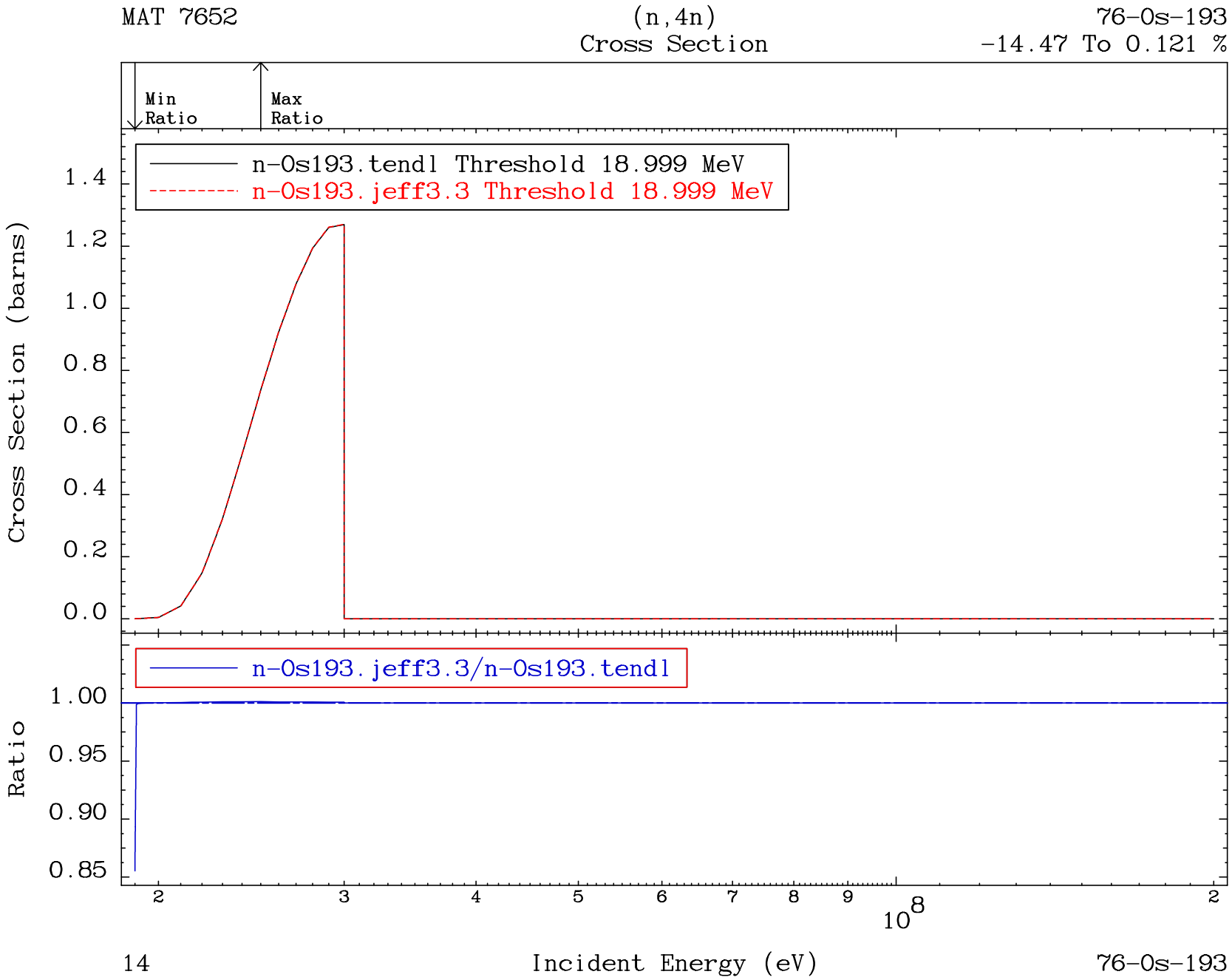

MAT 7652
(n,3n) α
Cross Section
76-0s-193
0.000 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 12.121 MeV
n-0s193.jeff3.3 Threshold 12.121 MeV
Cross Section (micro-barns)
30
25
20
15
10
5
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
76-0s-193

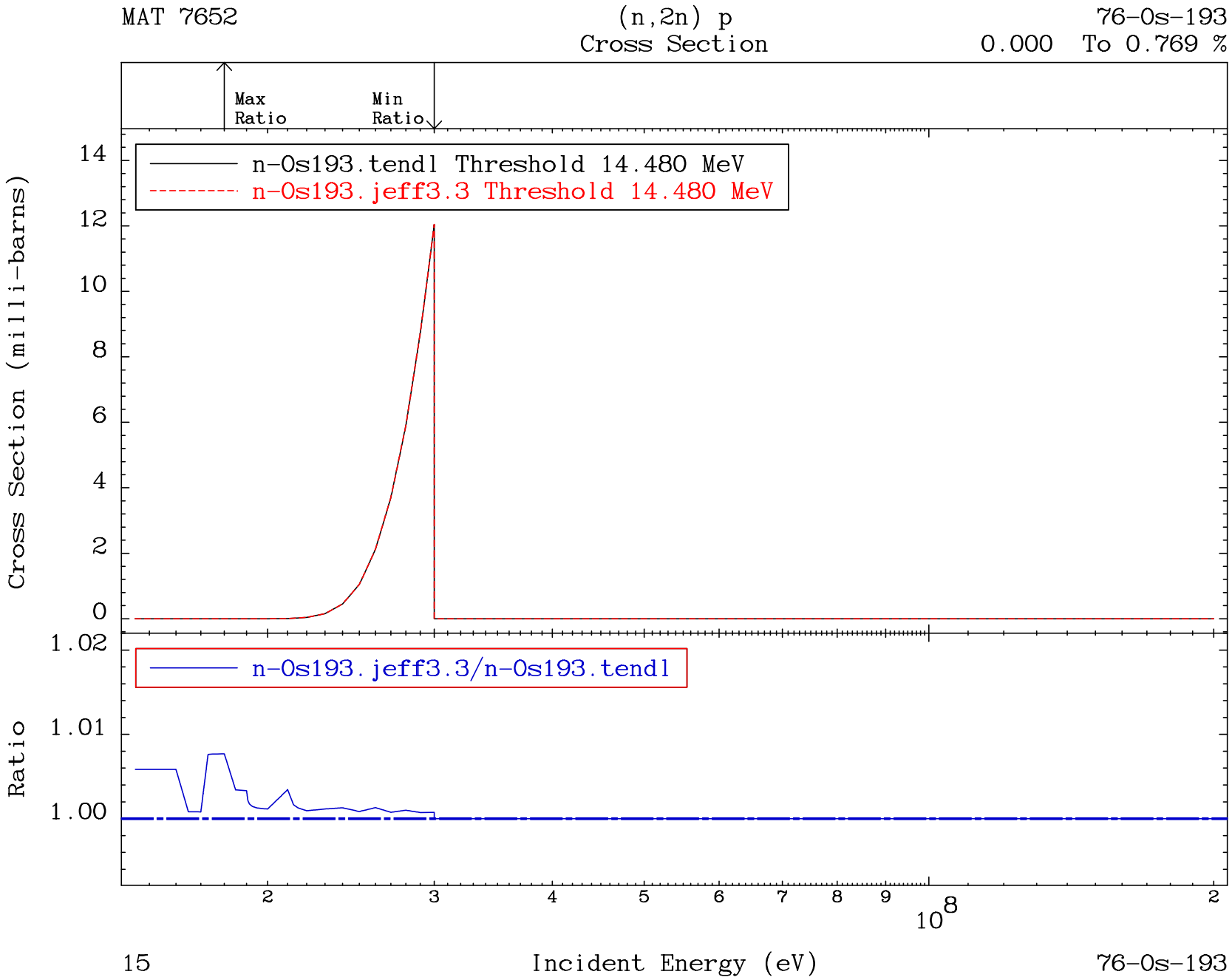

MAT 7652
(n,n') p
Cross Section
76-0s-193
-6.933 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 9.1420 MeV
n-0s193.jeff3.3 Threshold 9.1437 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.96
9
2
3
4
5
6
7
8
9
2
10^7
10^8
10
Incident Energy (eV)
76-0s-193

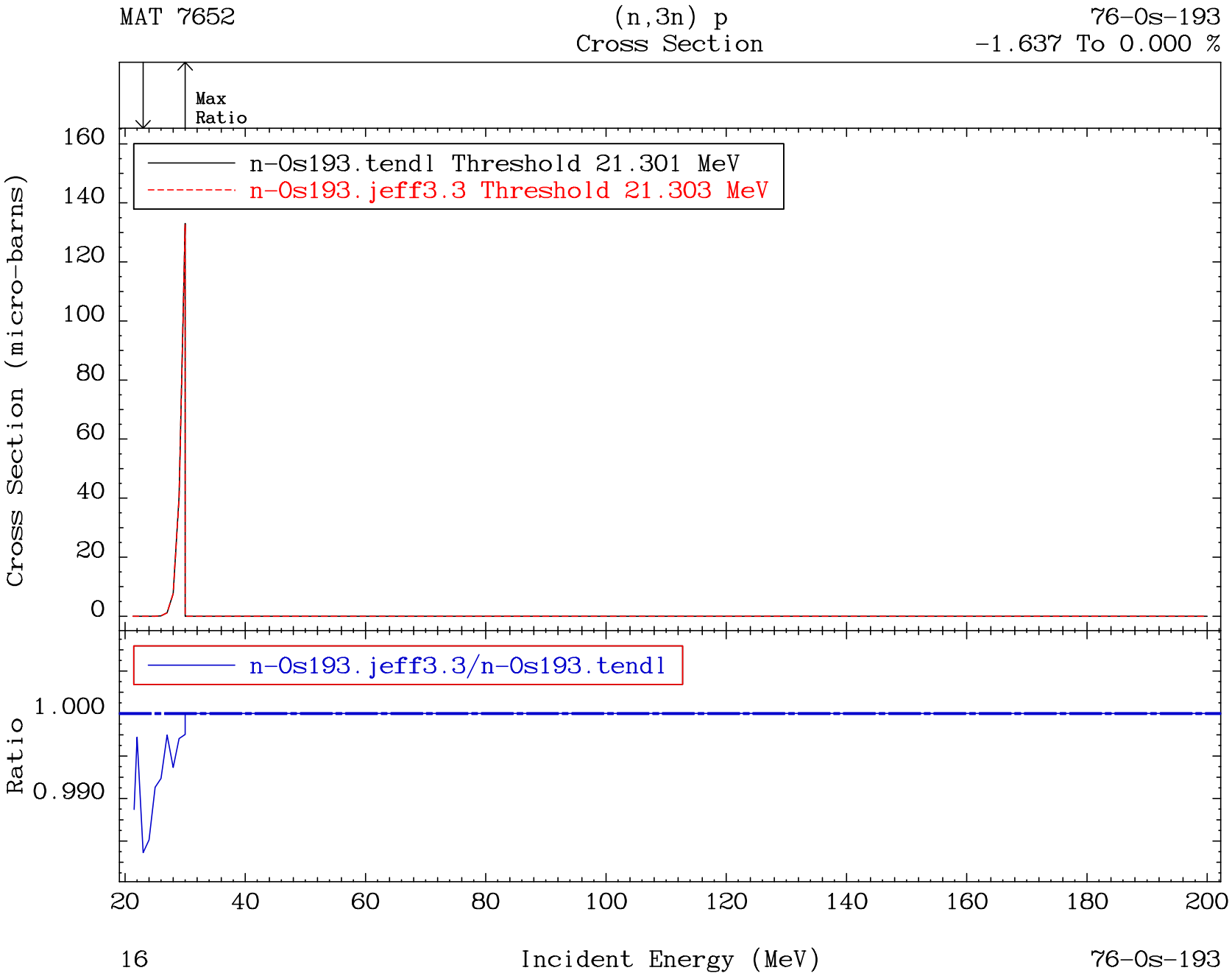

MAT 7652
(n,n') d
Cross Section
76-0s-193
-0.090 To 0.229 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 12.243 MeV
n-0s193.jeff3.3 Threshold 12.243 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-0s193.jeff3.3/n-0s193.tendl
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
76-0s-193

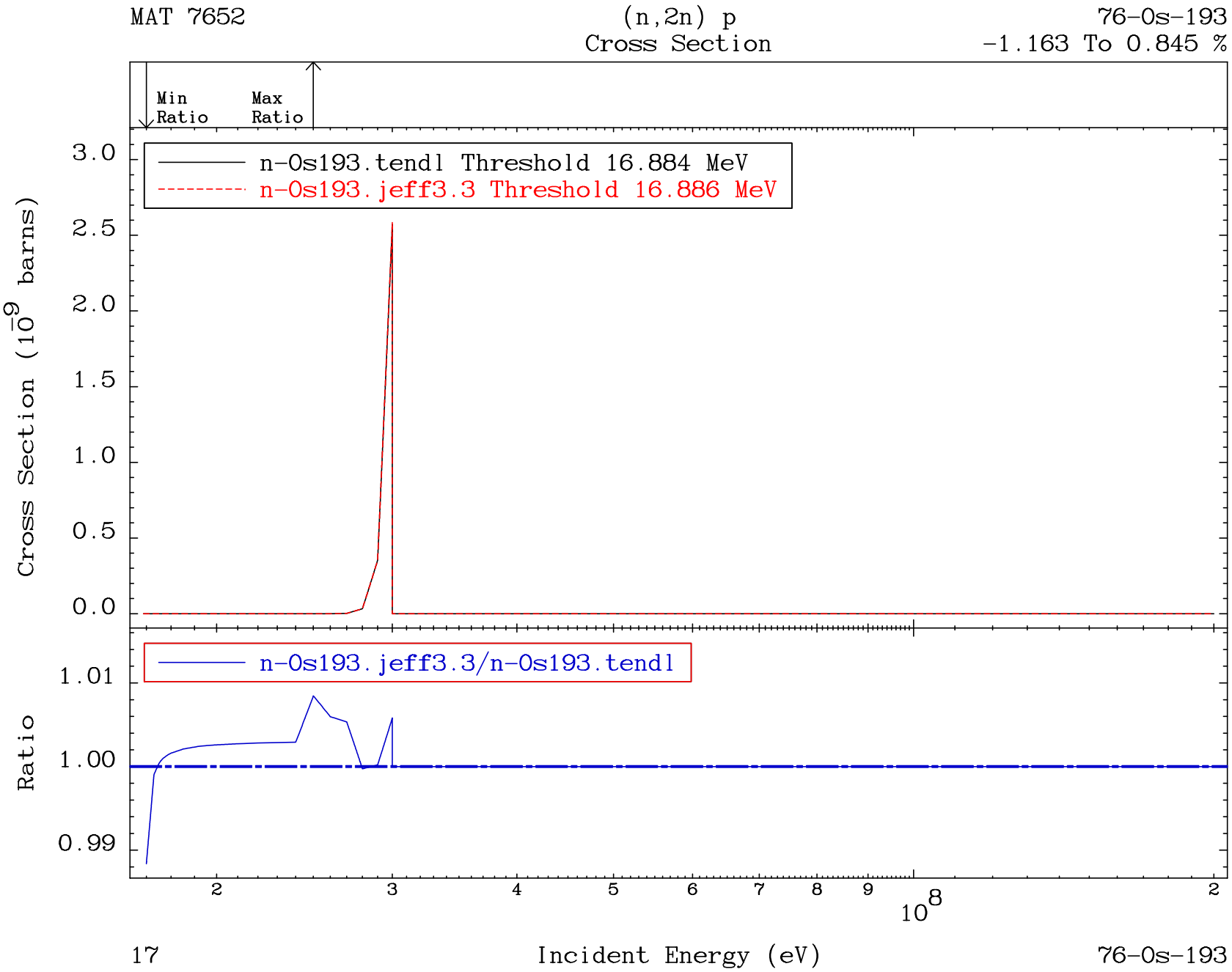

MAT 7652
(n,n') t
Cross Section
76-0s-193
-3.531 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 12.775 MeV
n-0s193.jeff3.3 Threshold 12.777 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
76-0s-193

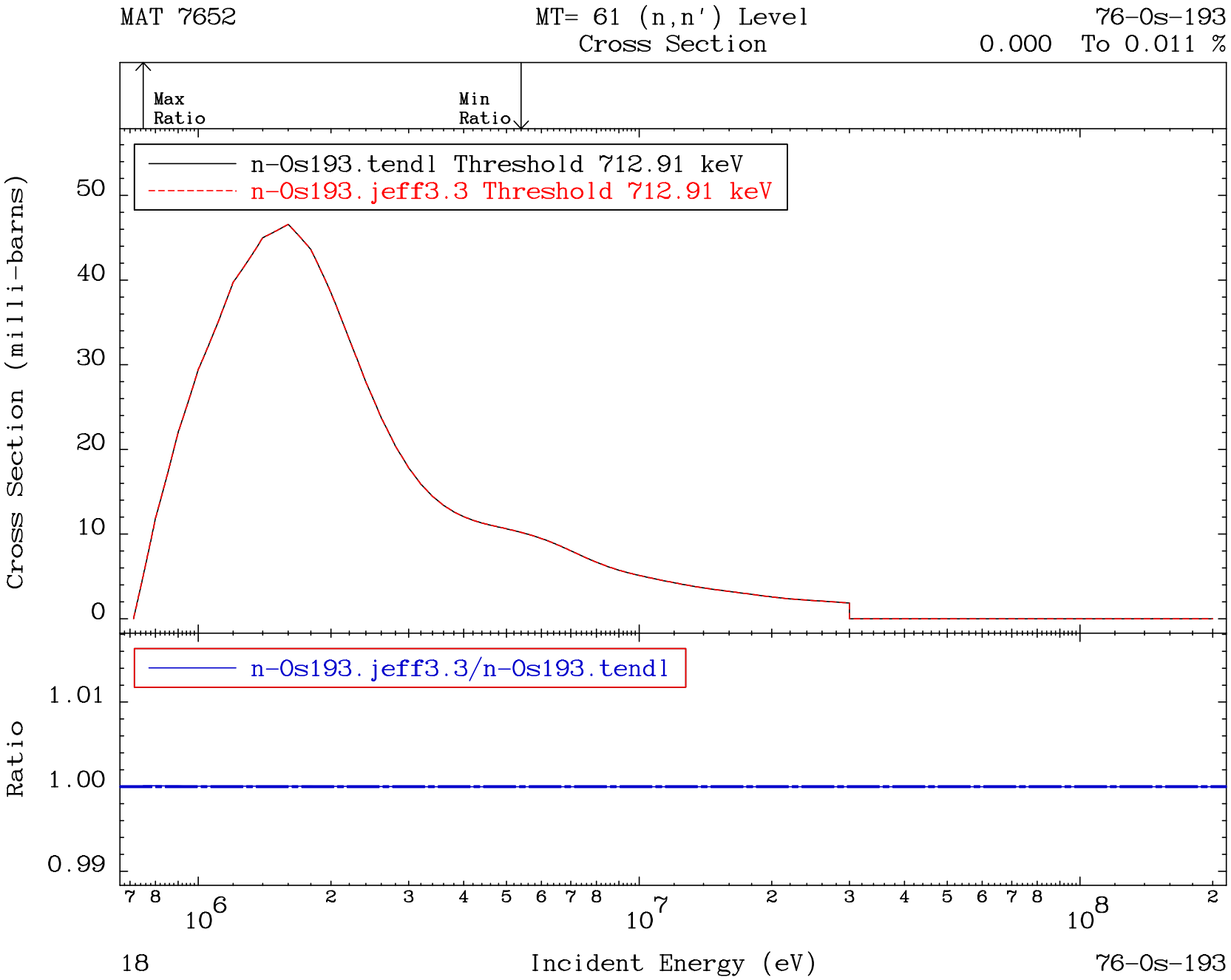

MAT 7652
(n,n') He-3
Cross Section
76-0s-193
-2.088 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 14.016 MeV
n-0s193.jeff3.3 Threshold 14.019 MeV
Cross Section (10^{-9} barns)
350
300
250
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.99
0.98
2
3
4
5
6
7
8
9
10^{8}
2
13
Incident Energy (eV)
76-0s-193

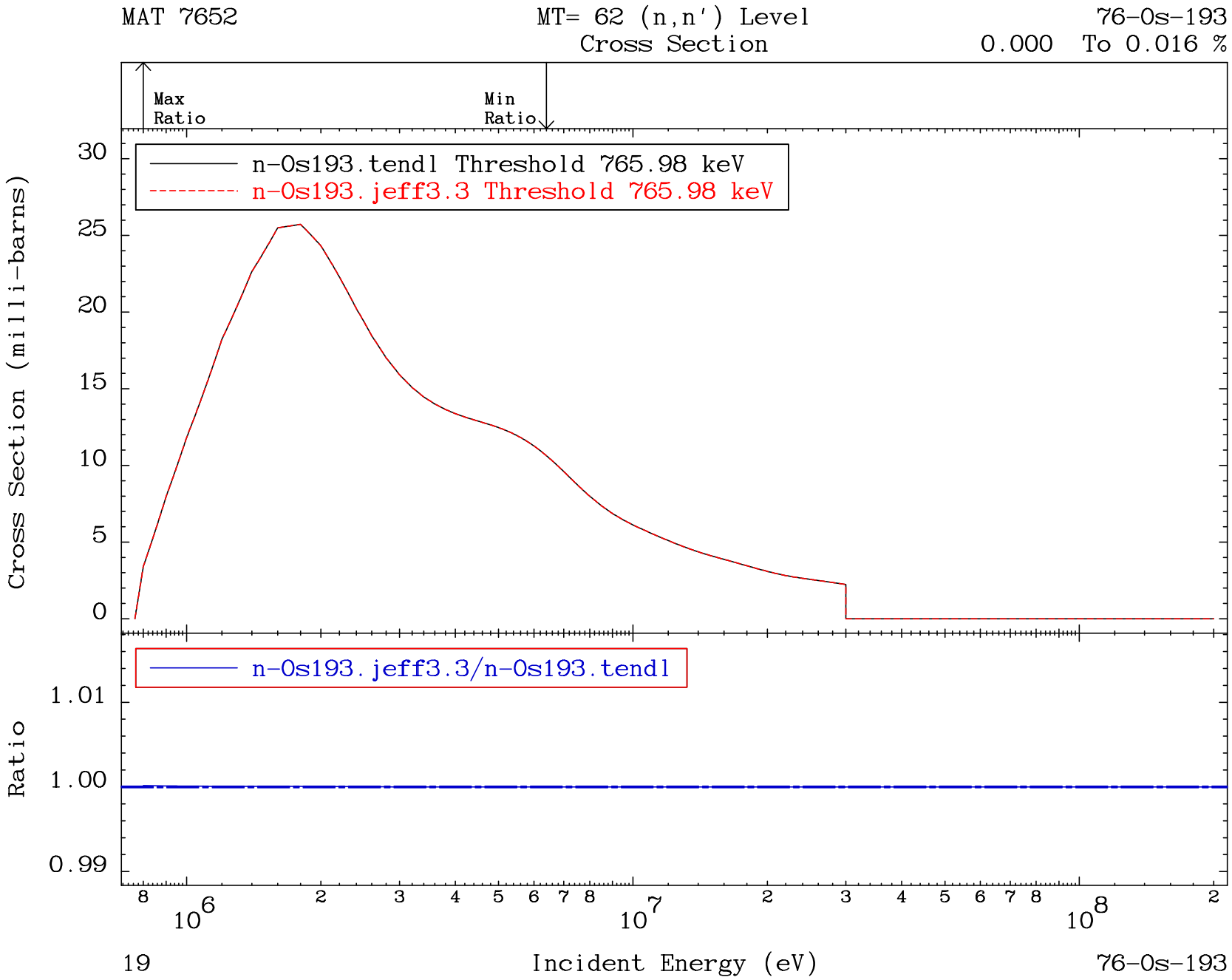

MAT 7652
(n,4n)
Cross Section
76-0s-193
-14.47 To 0.121 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 18.999 MeV
n-0s193.jeff3.3 Threshold 18.999 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
76-0s-193

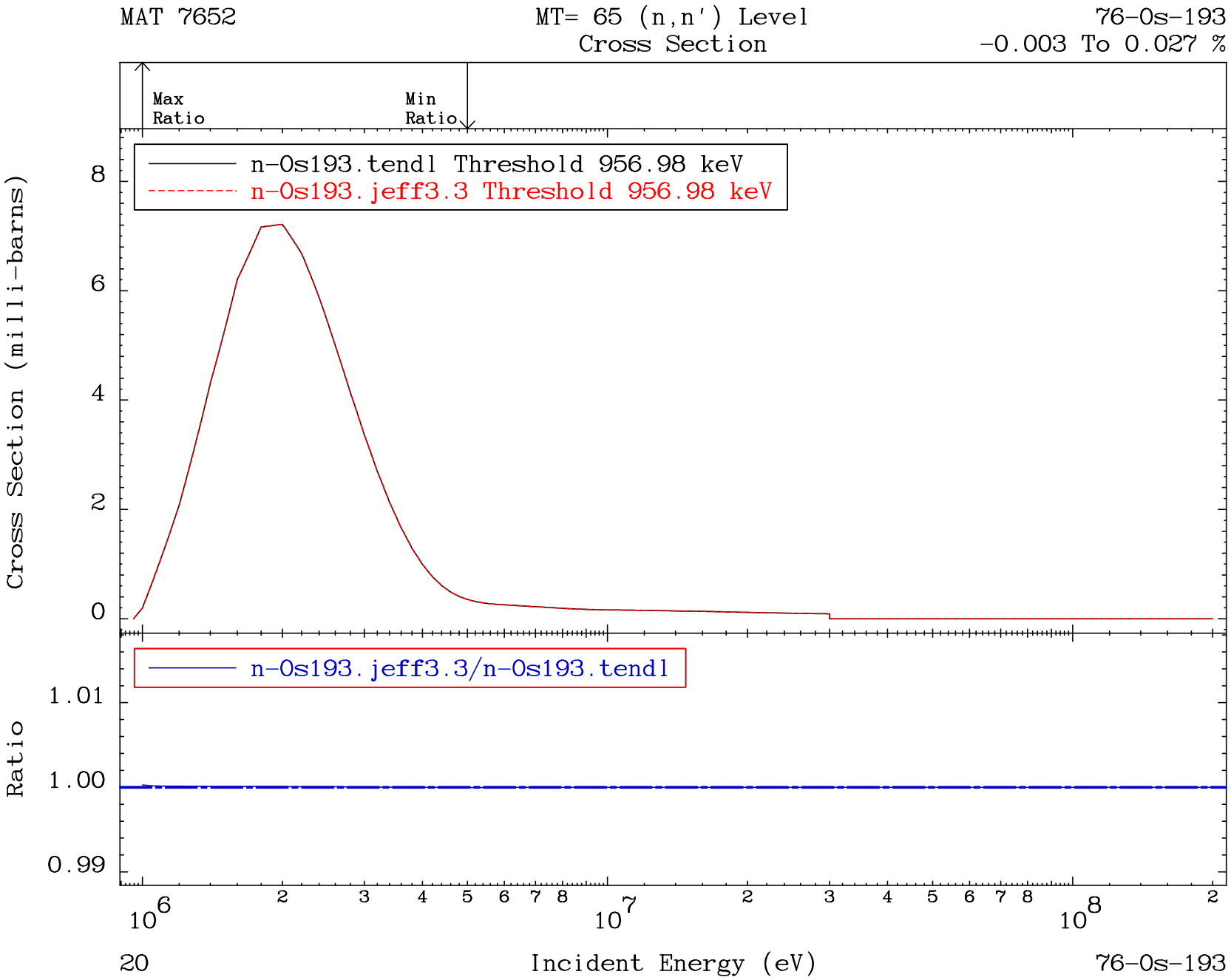

MAT 7652
(n,2n) p
Cross Section
76-0s-193
0.000 To 0.769 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 14.480 MeV
n-0s193.jeff3.3 Threshold 14.480 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
2
10^8
15
Incident Energy (eV)
76-0s-193

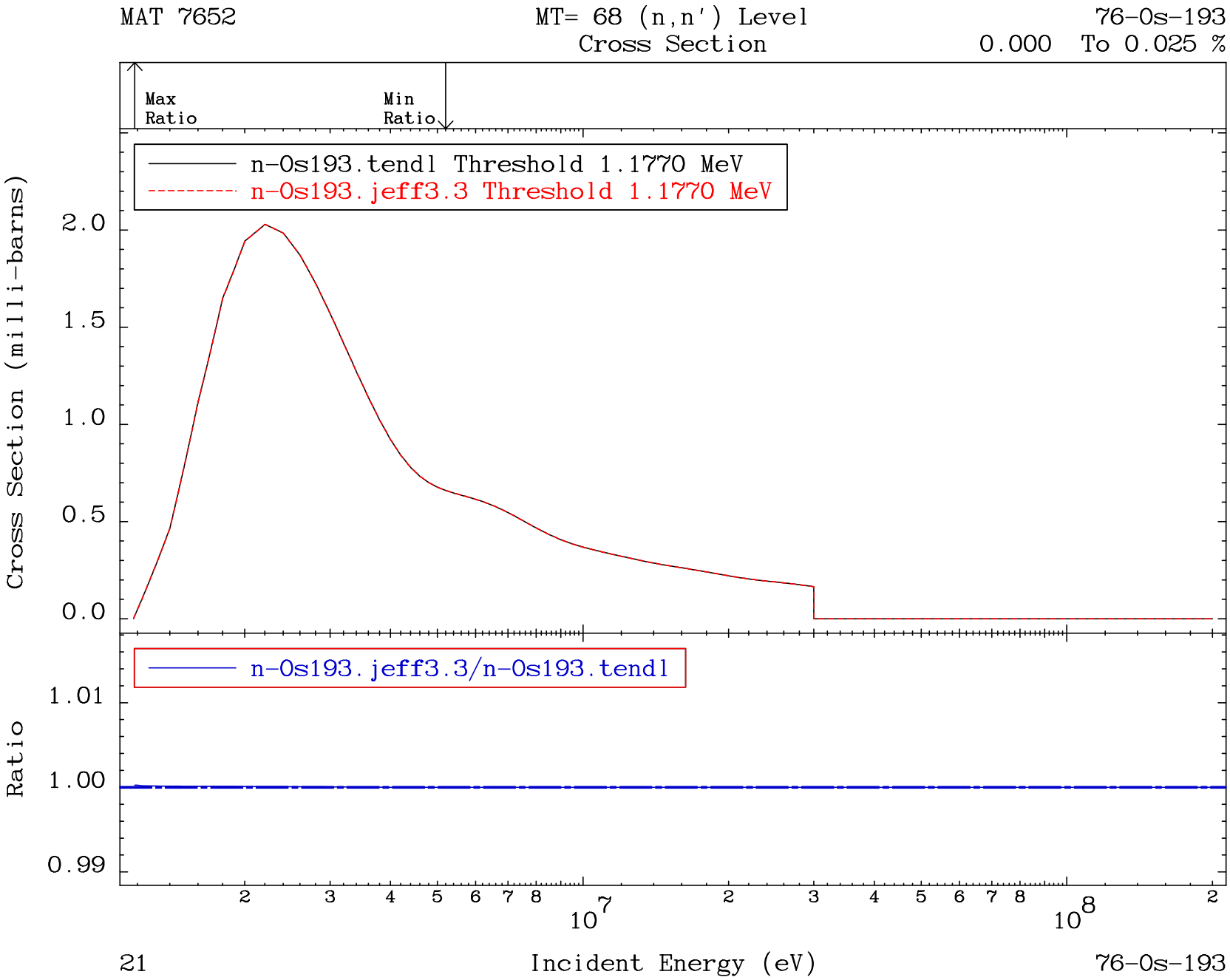

MAT 7652
(n,3n) p
Cross Section
76-0s-193
-1.637 To 0.000 %
Max
Ratio
n-0s193.tendl Threshold 21.301 MeV
n-0s193.jeff3.3 Threshold 21.303 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.000
0.990
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
76-0s-193

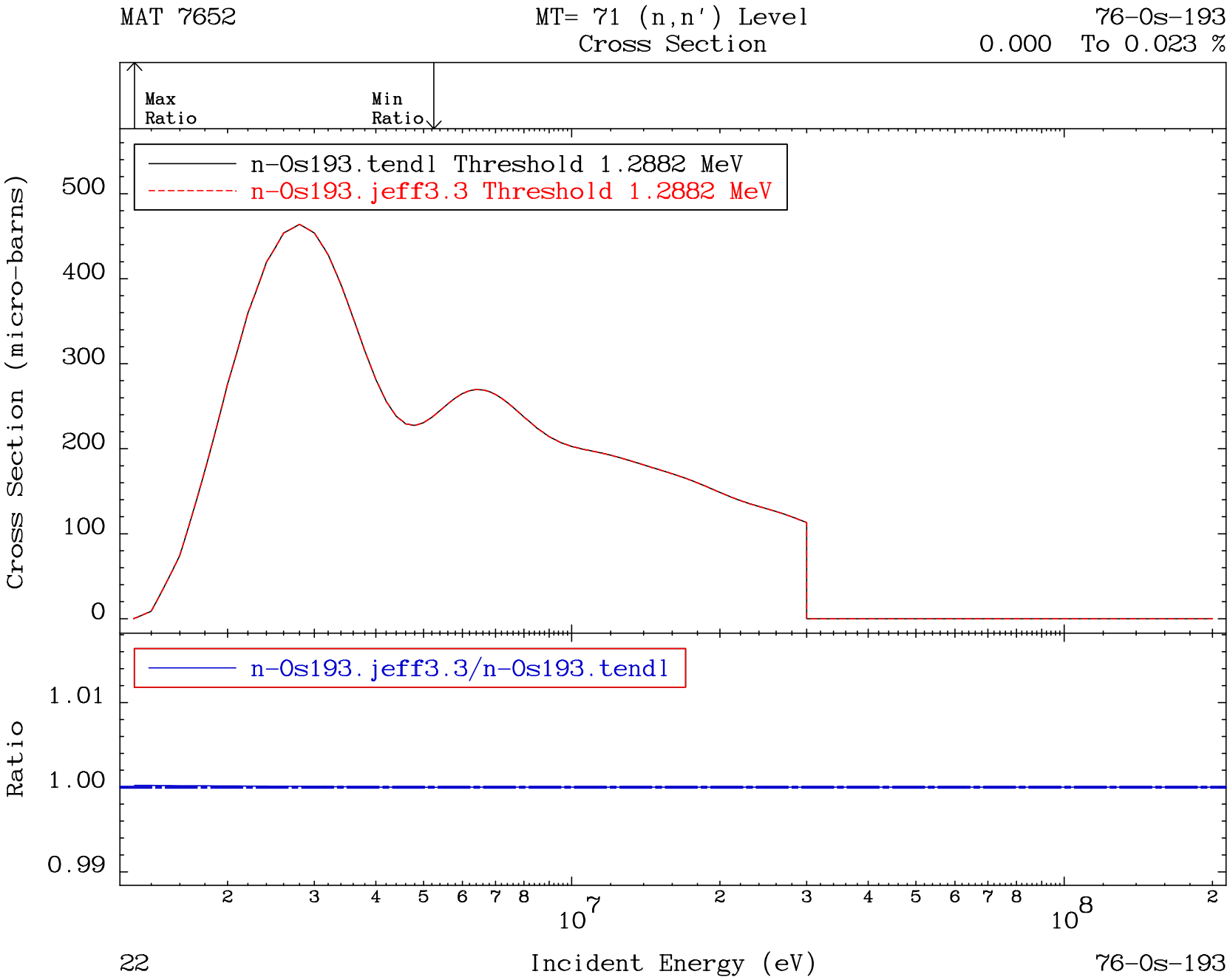

MAT 7652
(n,2n) p
Cross Section
76-0s-193
-1.163 To 0.845 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 16.884 MeV
n-0s193.jeff3.3 Threshold 16.886 MeV
Cross Section (10^{-9} barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
76-0s-193

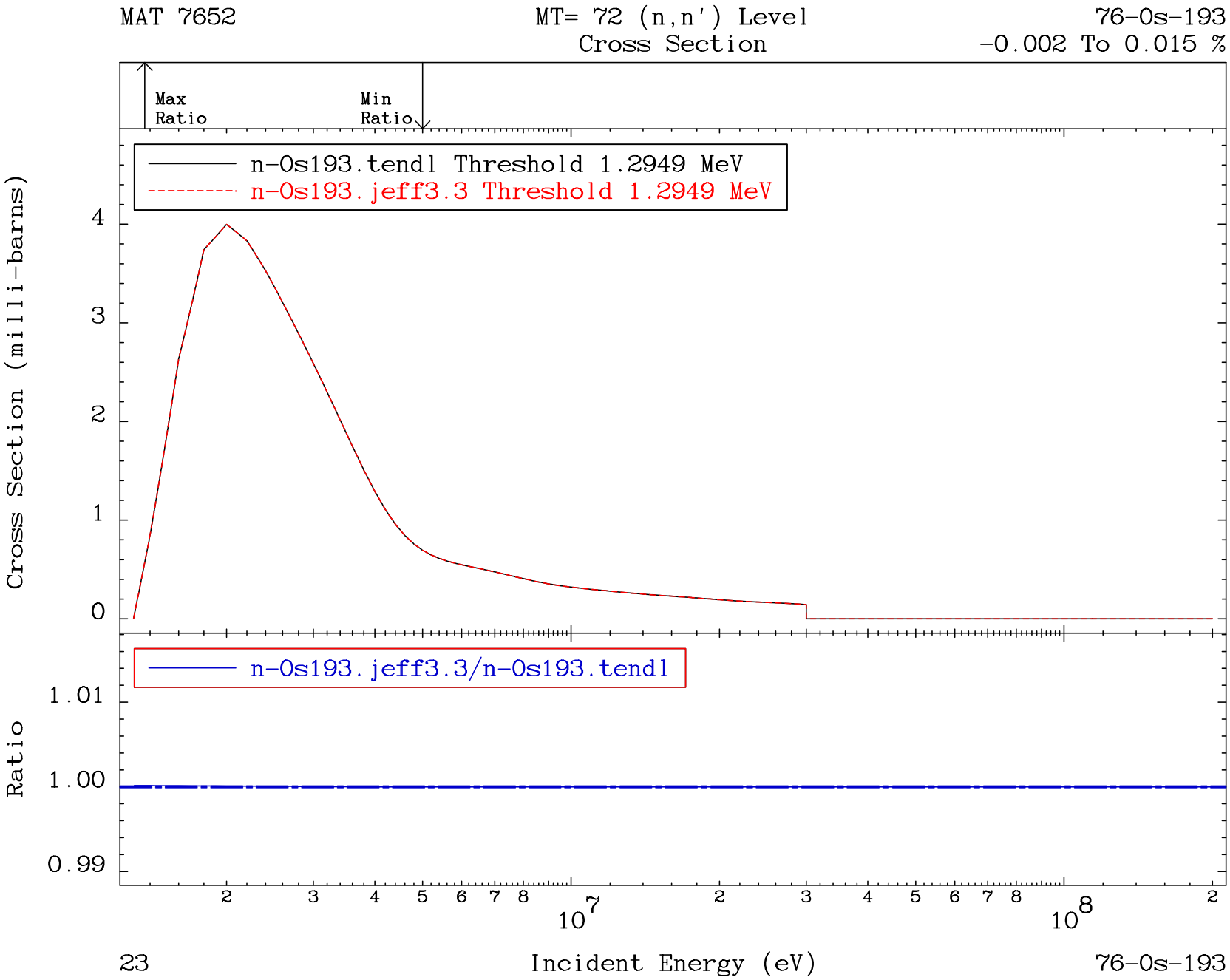

MAT 7652
MT= 61 (n,n') Level
Cross Section
76-0s-193
0.000 To 0.011 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 712.91 keV
n-0s193.jeff3.3 Threshold 712.91 keV
Cross Section (milli-barns)
50
40
30
20
10
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
76-0s-193

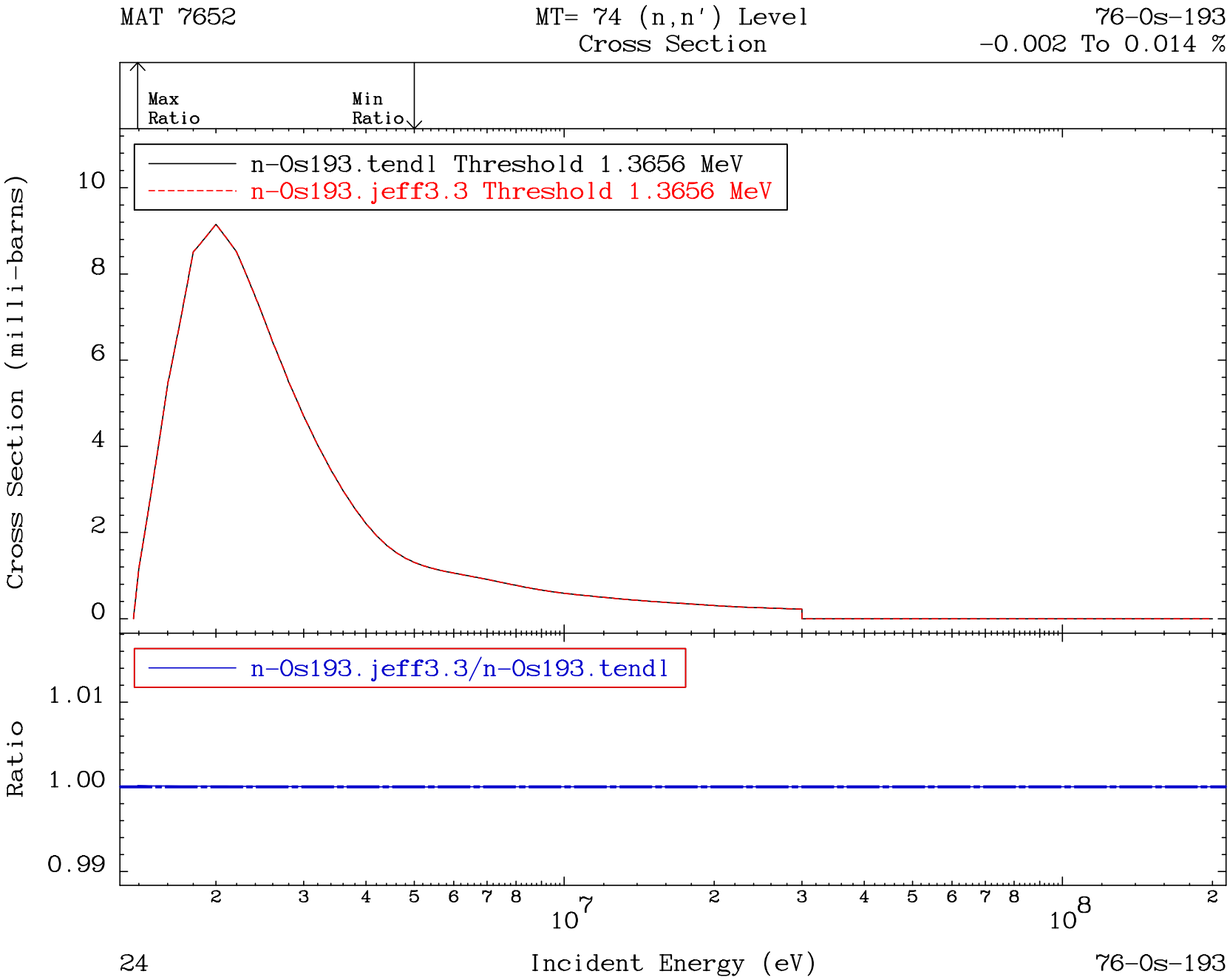

MAT 7652
MT= 62 (n,n') Level
Cross Section
76-0s-193
0.000 To 0.016 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 765.98 keV
n-0s193.jeff3.3 Threshold 765.98 keV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
76-0s-193

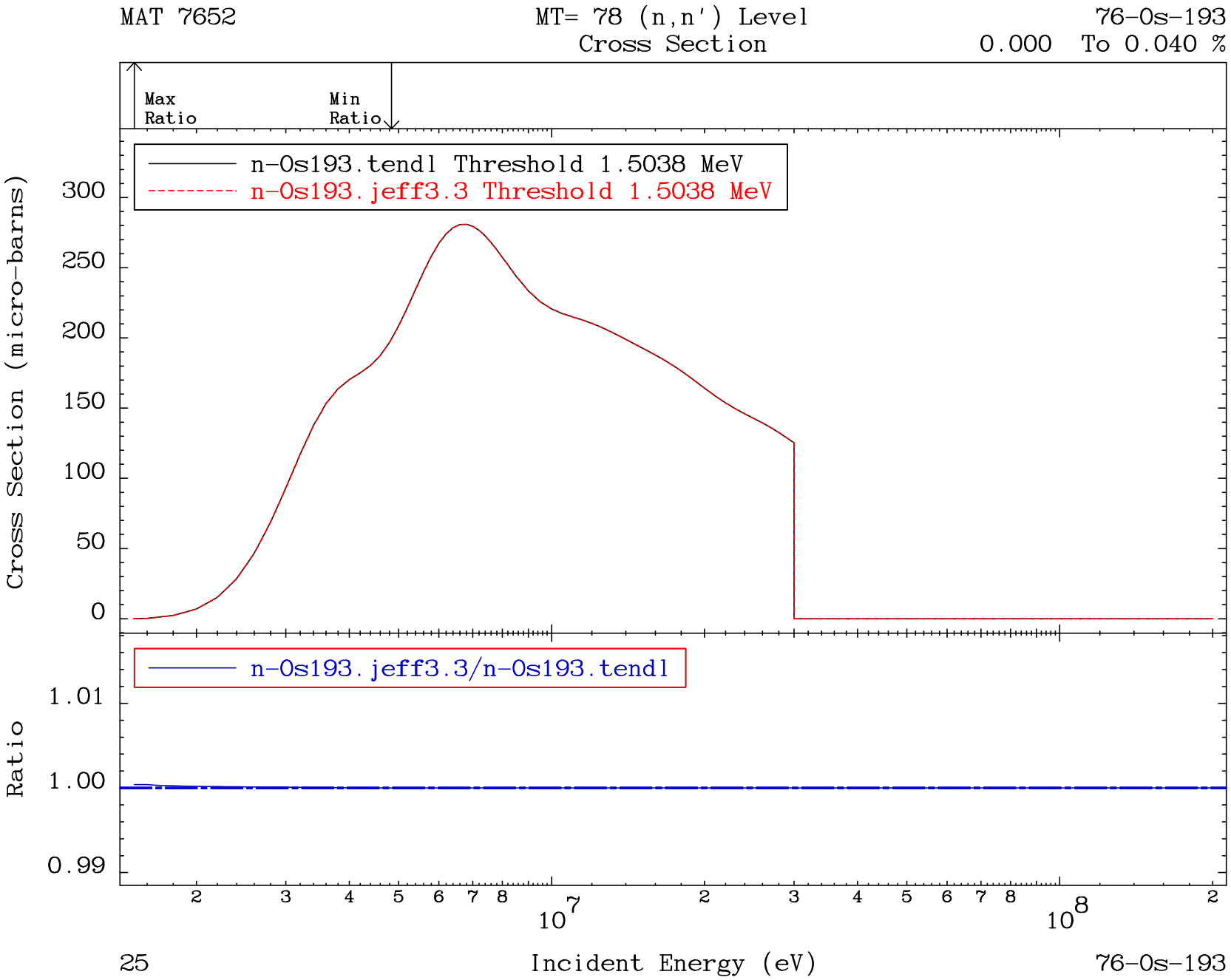

MAT 7652
MT= 65 (n,n') Level
Cross Section
76-0s-193
-0.003 To 0.027 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 956.98 keV
n-0s193.jeff3.3 Threshold 956.98 keV
Cross Section (milli-barns)
8
6
4
2
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
76-0s-193

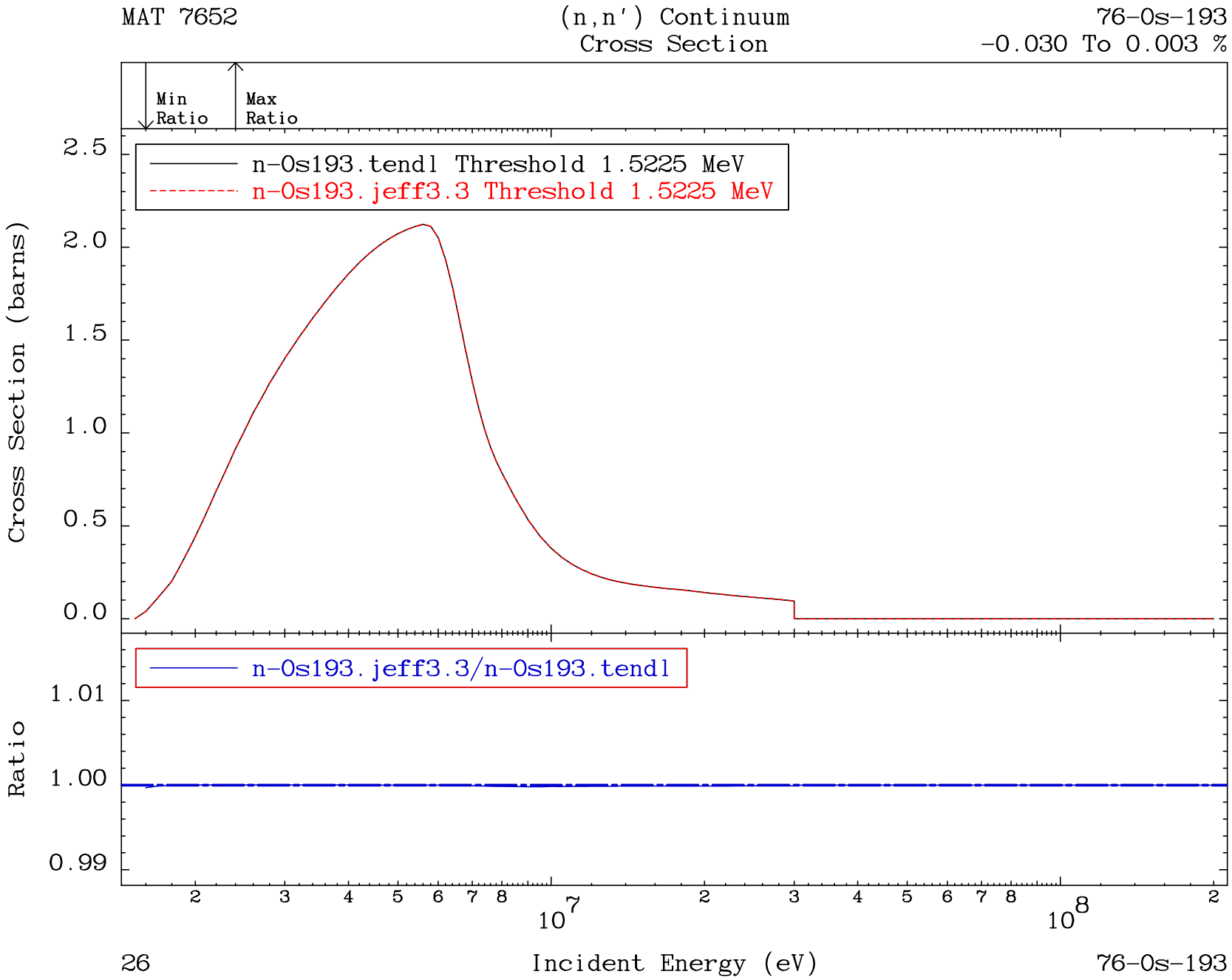

MAT 7652
MT= 68 (n,n') Level
Cross Section
76-0s-193
0.000 To 0.025 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 1.1770 MeV
n-0s193.jeff3.3 Threshold 1.1770 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
76-0s-193

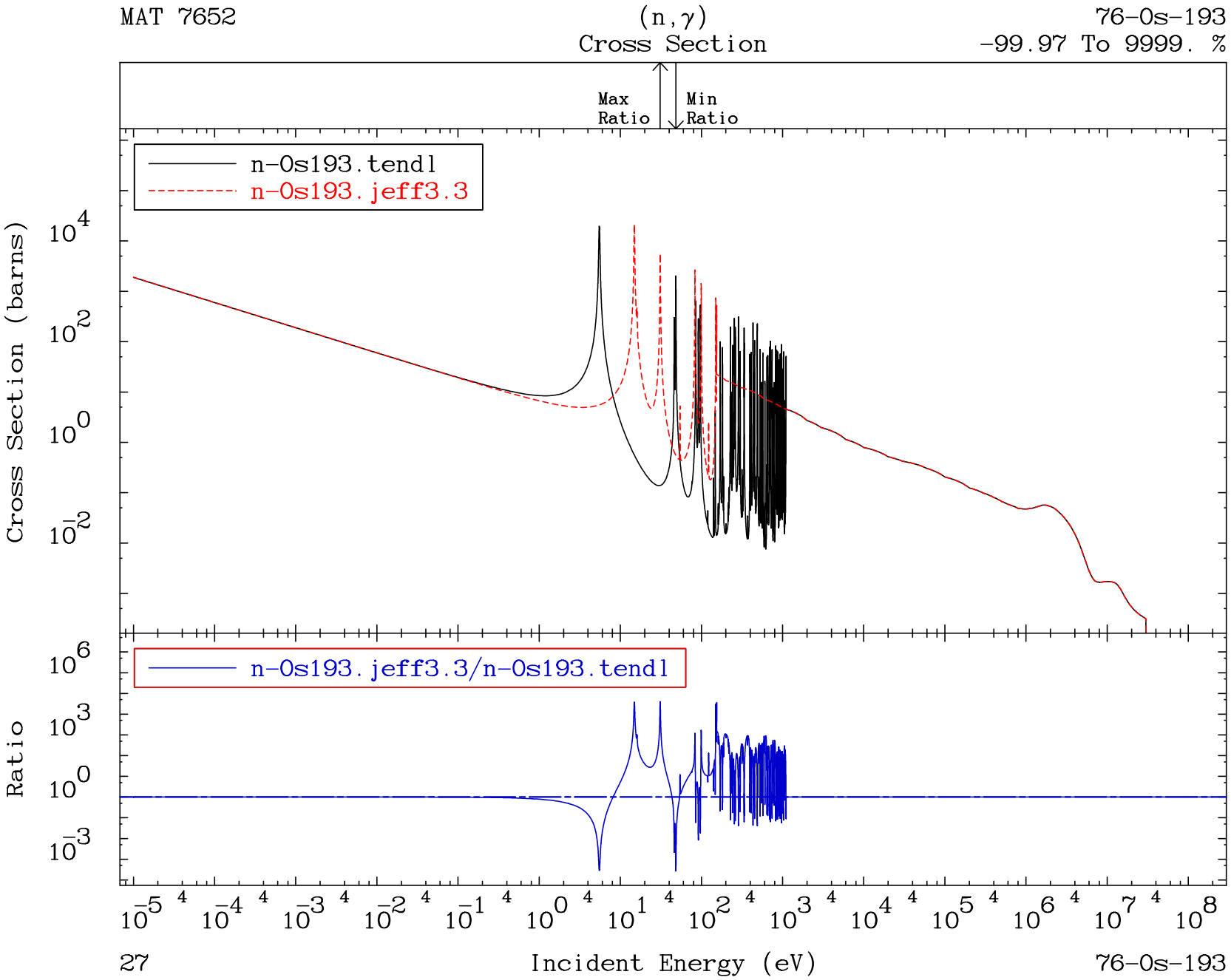

MAT 7652
MT= 71 (n,n') Level
Cross Section
76-0s-193
0.000 To 0.023 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 1.2882 MeV
n-0s193.jeff3.3 Threshold 1.2882 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
76-0s-193

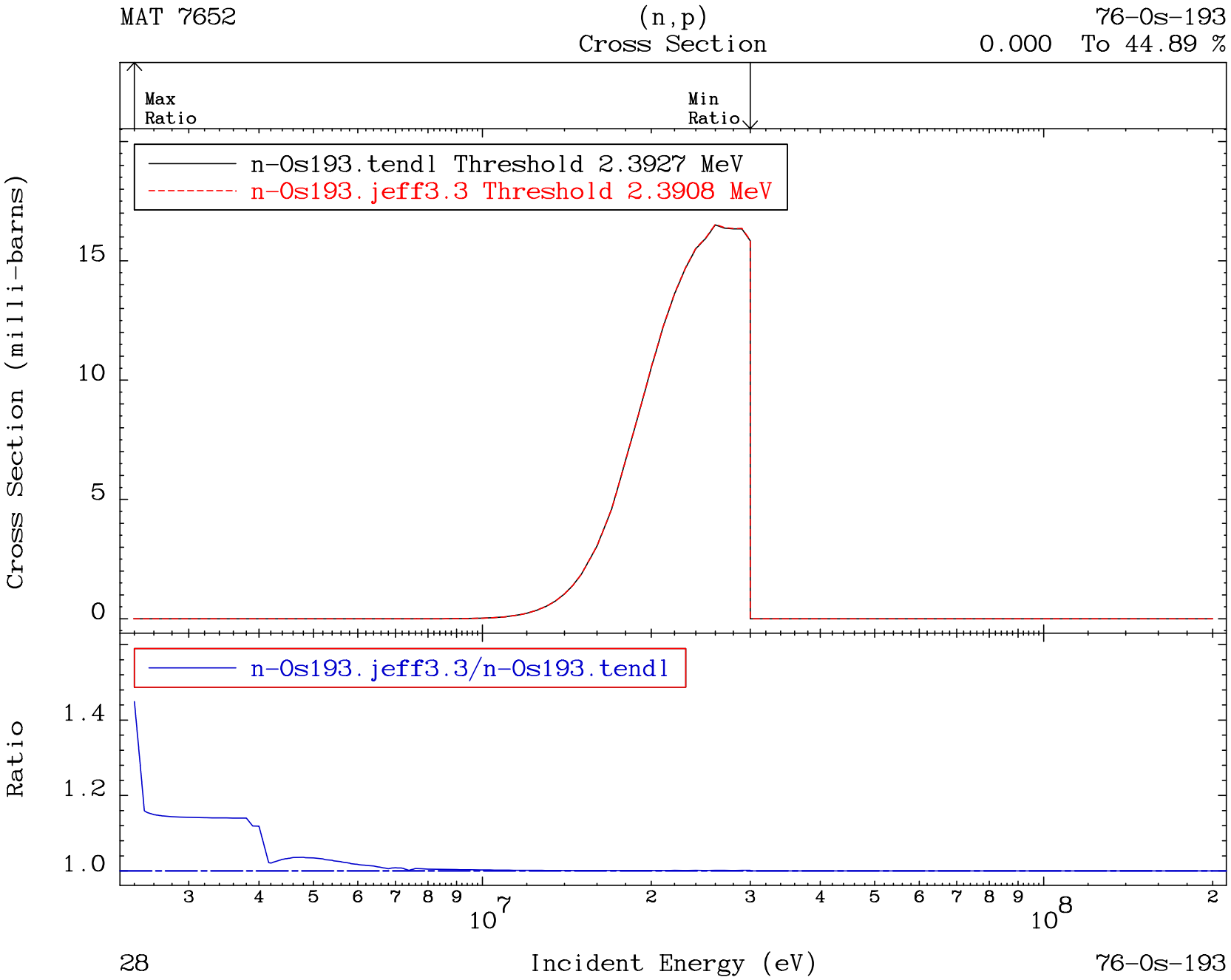

MAT 7652
MT= 72 (n,n') Level
Cross Section
76-0s-193
-0.002 To 0.015 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 1.2949 MeV
n-0s193.jeff3.3 Threshold 1.2949 MeV
Cross Section (milli-barns)
4
3
2
1
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
76-0s-193

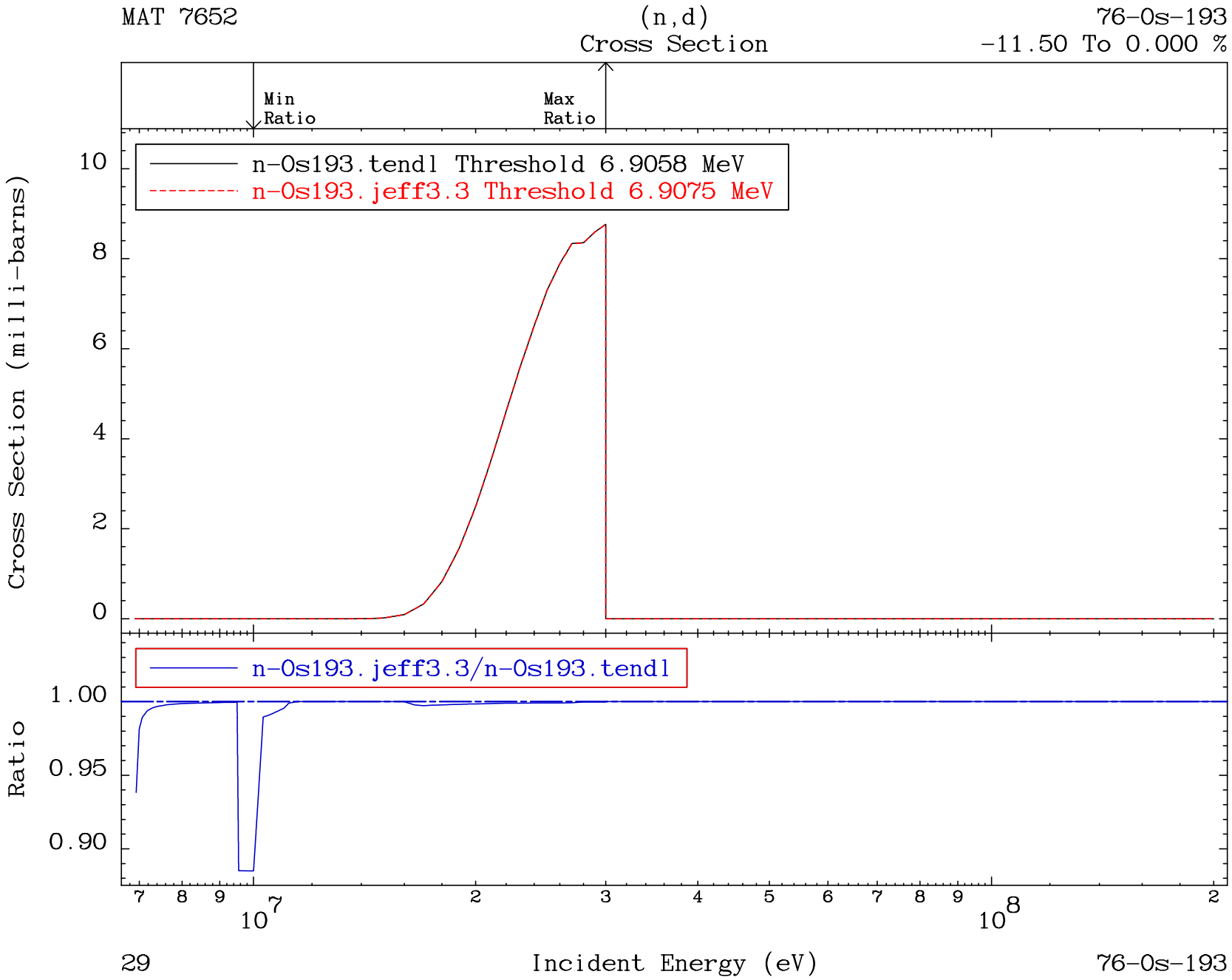

MAT 7652
MT= 74 (n,n') Level
Cross Section
76-0s-193
-0.002 To 0.014 %
Max
Ratio
Min
Ratio
n-0s193.tendl Threshold 1.3656 MeV
n-0s193.jeff3.3 Threshold 1.3656 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
76-0s-193

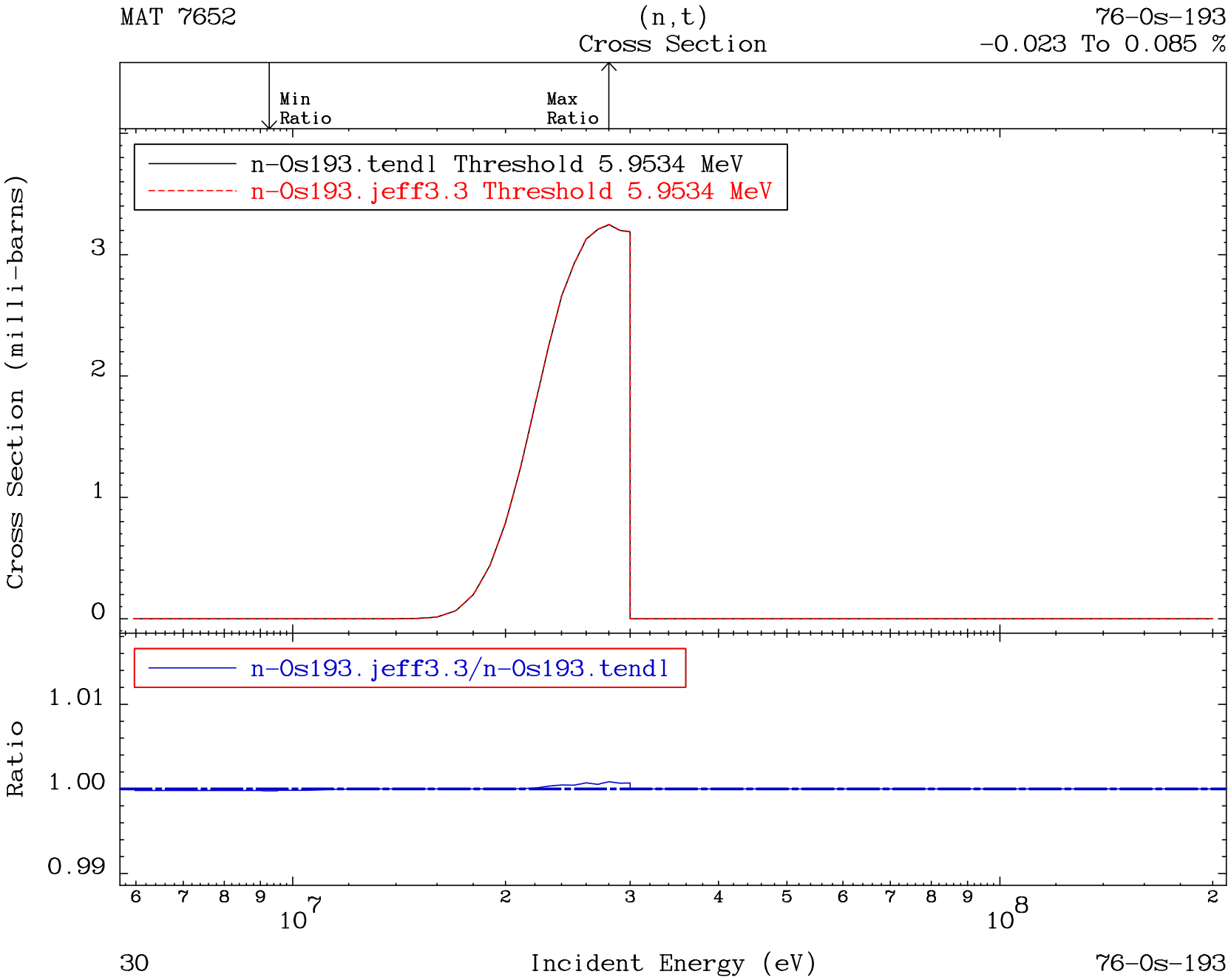

MAT 7652
MT= 78 (n,n') Level
Cross Section
76-0s-193
0.000 To 0.040 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 1.5038 MeV
n-0s193.jeff3.3 Threshold 1.5038 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
76-0s-193

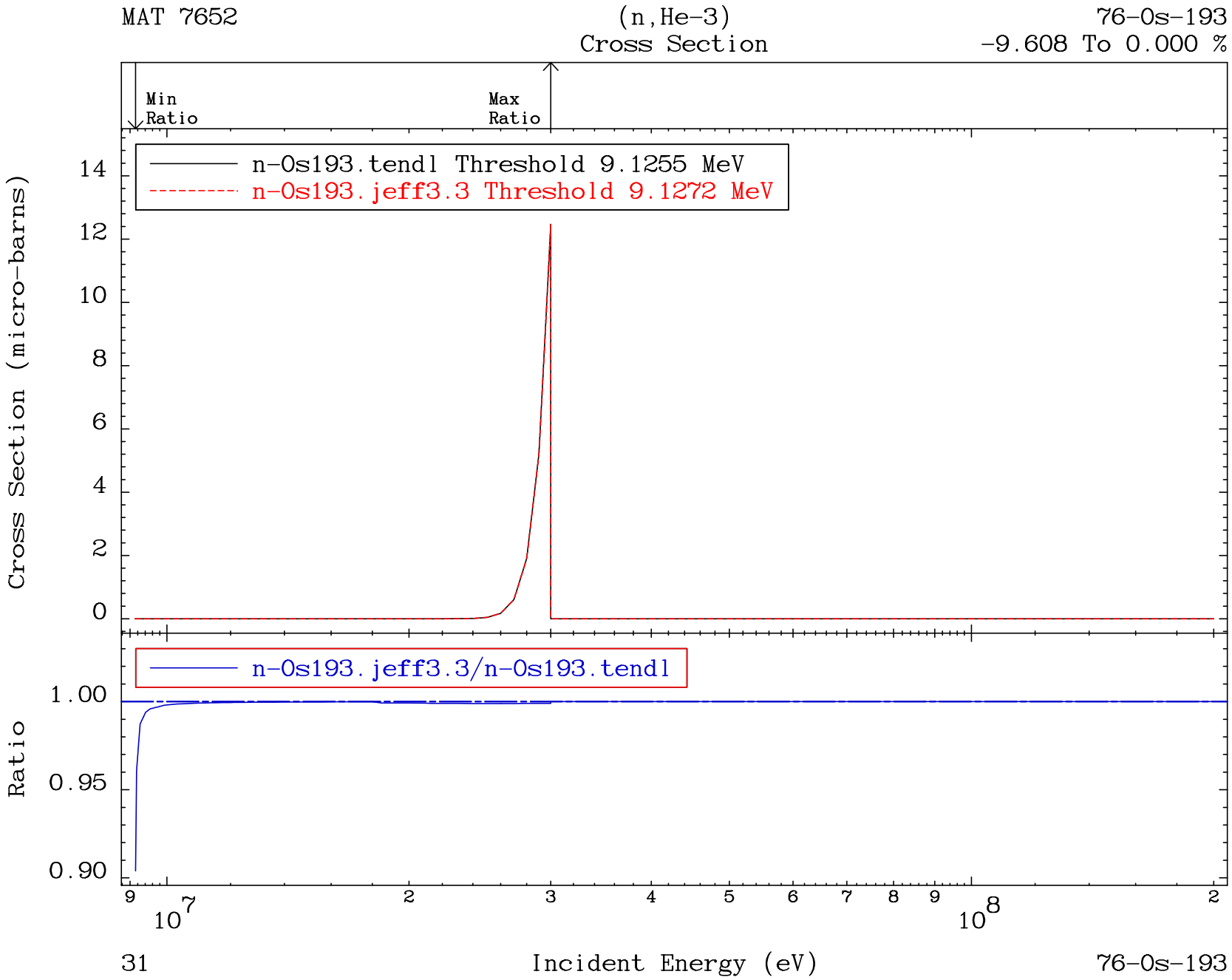

MAT 7652
(n,n') Continuum
Cross Section
76-0s-193
-0.030 To 0.003 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 1.5225 MeV
n-0s193.jeff3.3 Threshold 1.5225 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
76-0s-193

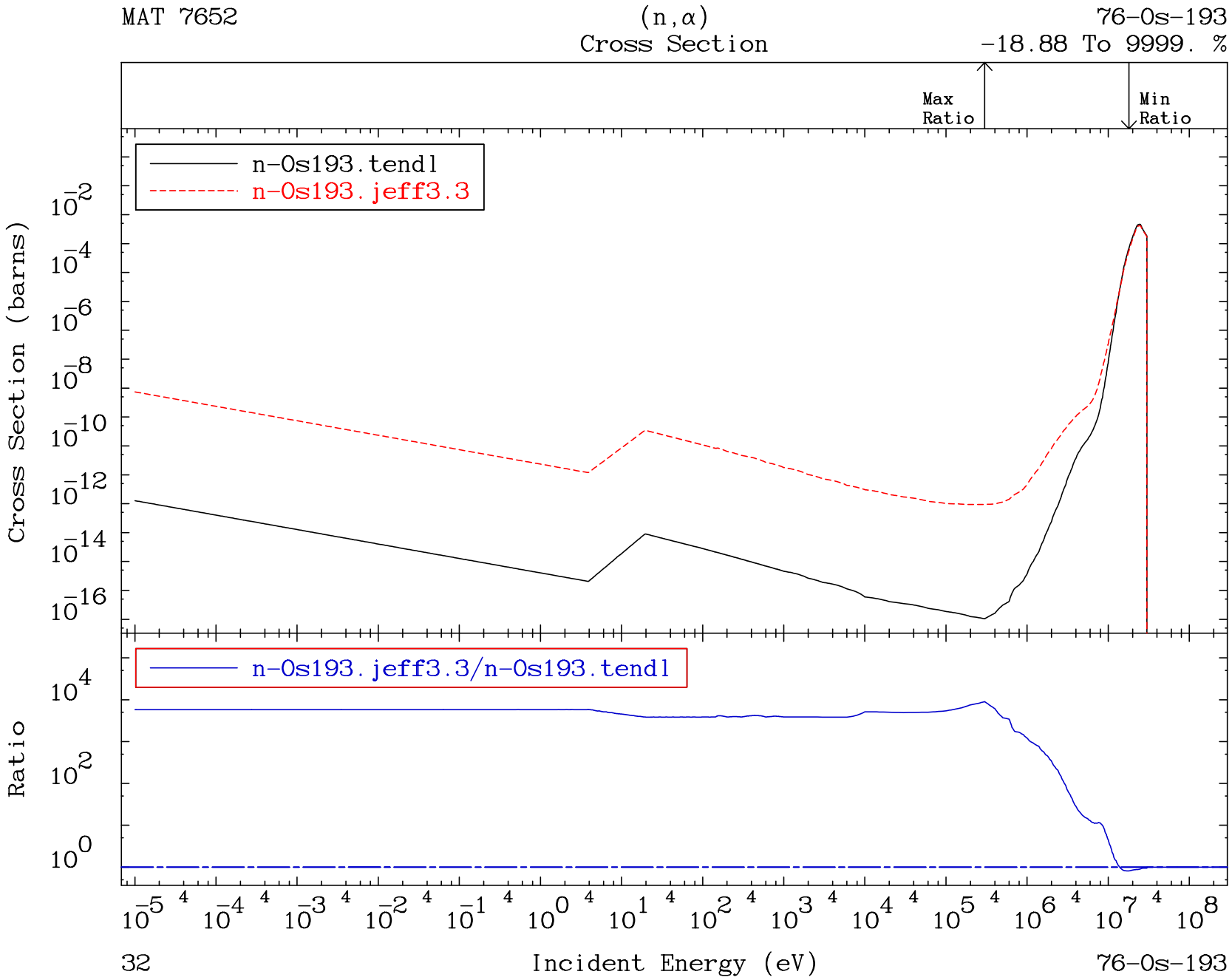

MAT 7652
(n,γ)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
27
76-0s-193

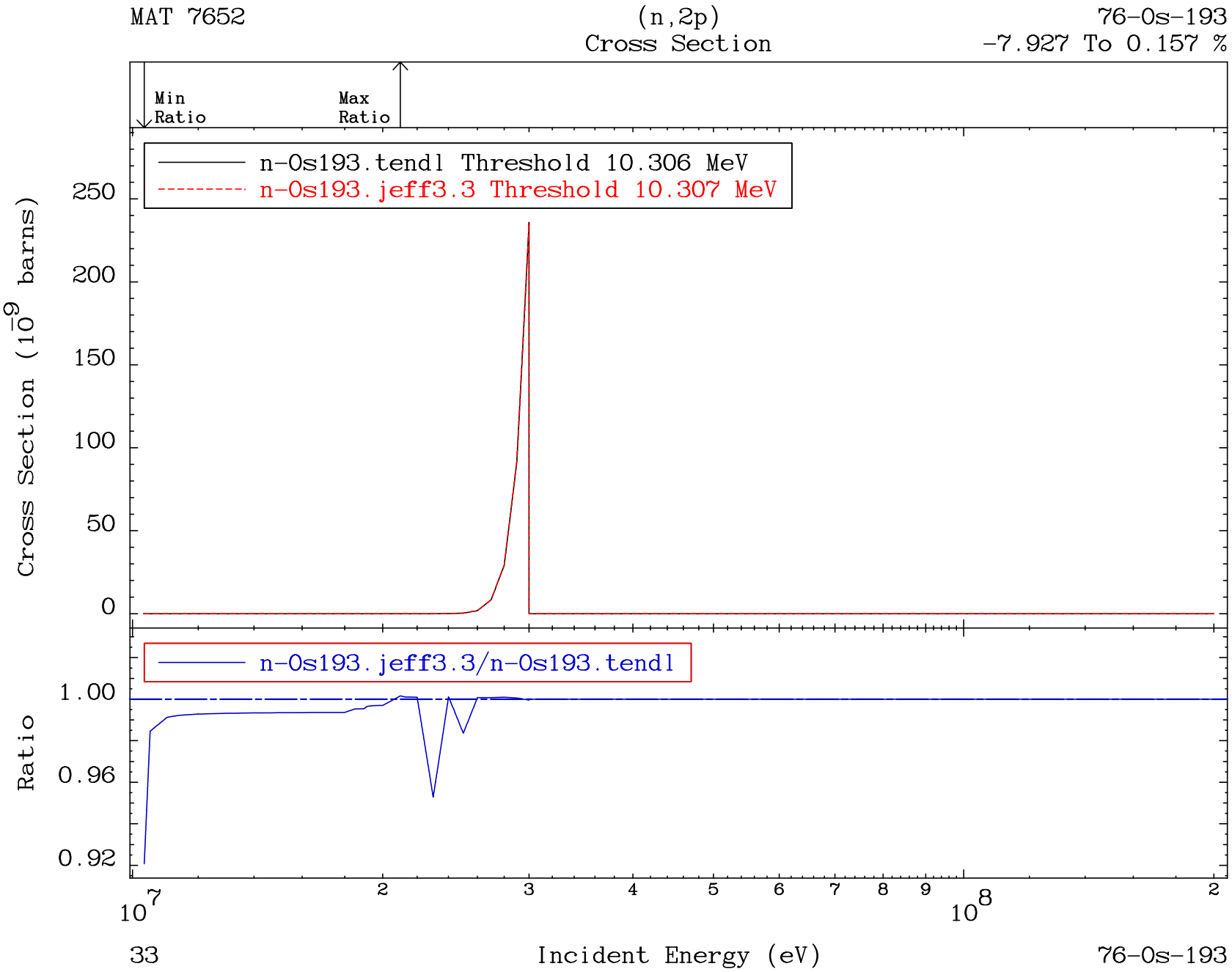

MAT 7652
(n,p)
Cross Section
76-0s-193
0.000 To 44.89 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 2.3927 MeV
n-0s193.jeff3.3 Threshold 2.3908 MeV
Cross Section (milli-barns)
15
10
5
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.4
1.2
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
76-0s-193

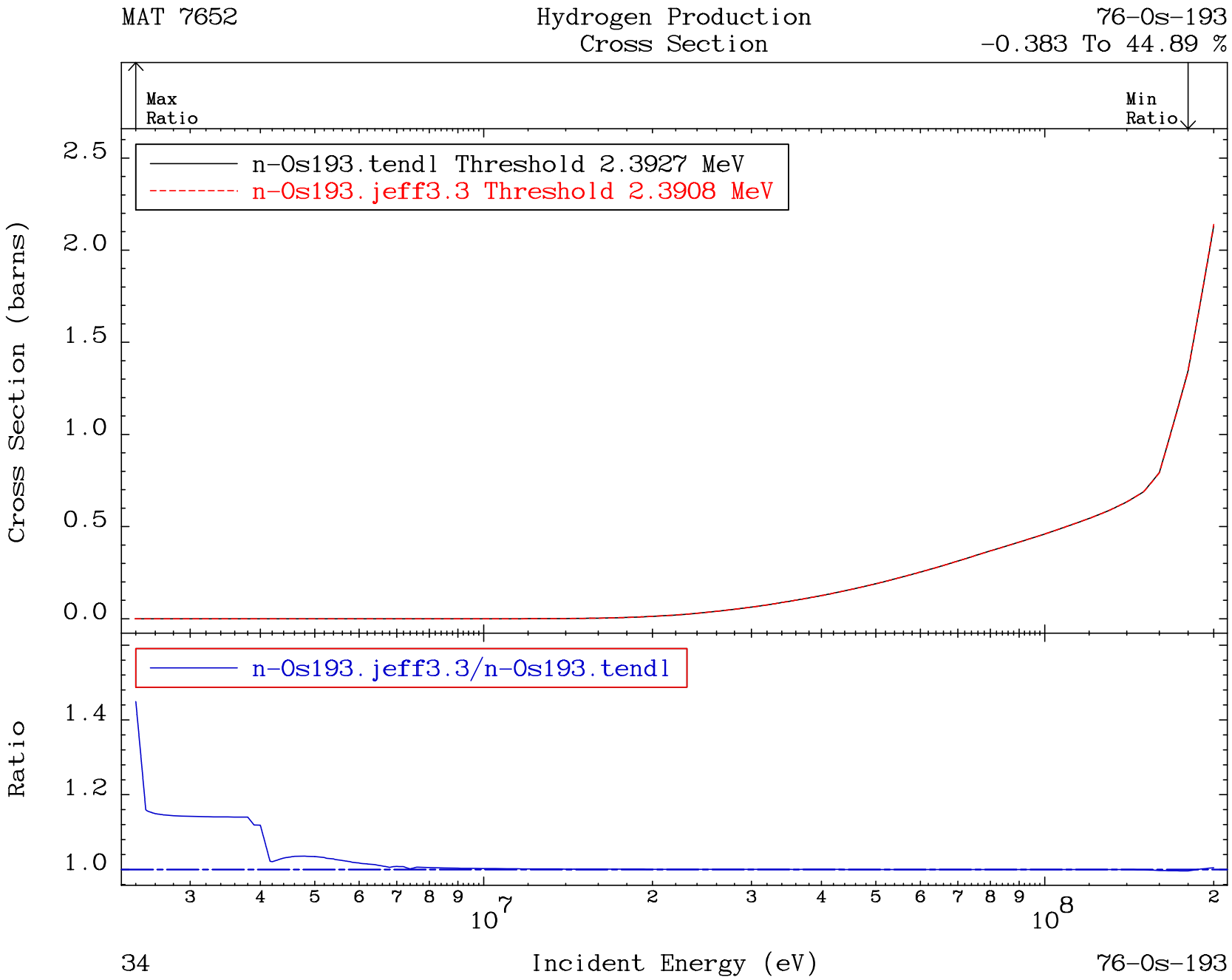

MAT 7652
(n,d)
Cross Section
76-0s-193
-11.50 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 6.9058 MeV
n-0s193.jeff3.3 Threshold 6.9075 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.95
0.90
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
29
Incident Energy (eV)
76-0s-193

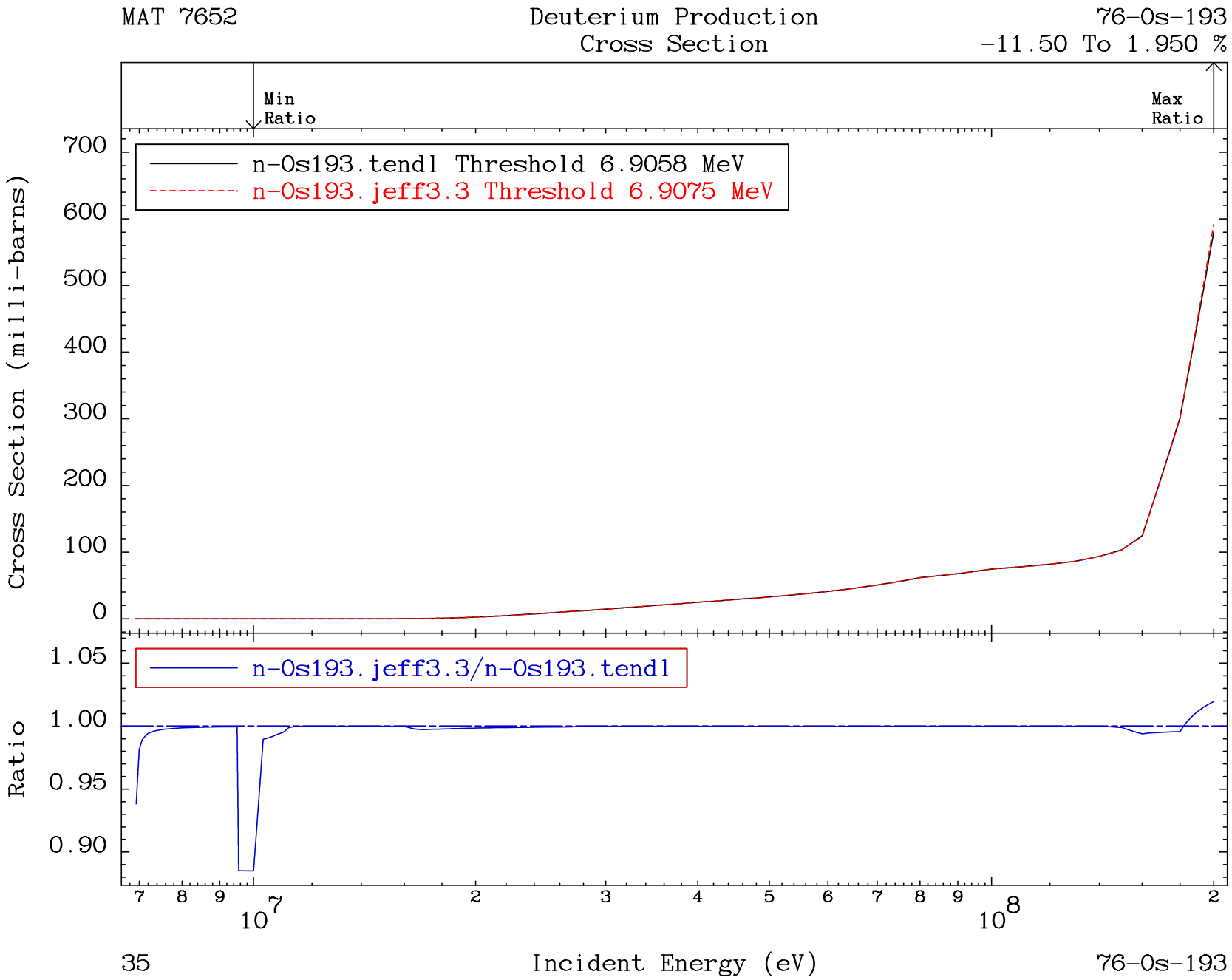

MAT 7652
(n,t)
Cross Section
76-0s-193
-0.023 To 0.085 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 5.9534 MeV
n-0s193.jeff3.3 Threshold 5.9534 MeV
Cross Section (milli-barns)
0
1
2
3
n-0s193.jeff3.3/n-0s193.tendl
Ratio
0.99
1.00
1.01
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
76-0s-193

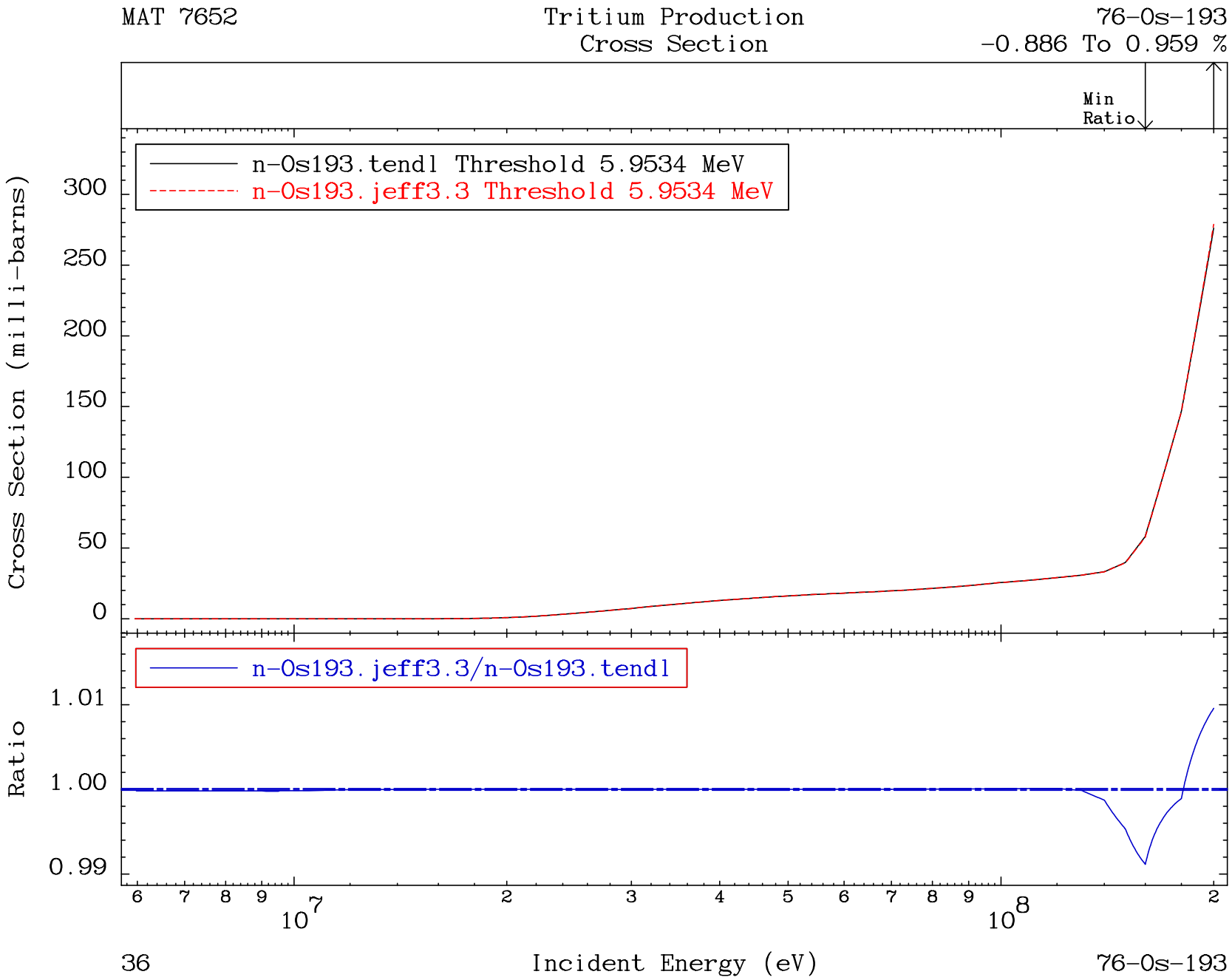

MAT 7652
(n,He-3)
Cross Section
76-0s-193
-9.608 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 9.1255 MeV
n-0s193.jeff3.3 Threshold 9.1272 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
14
n-0s193.jeff3.3/n-0s193.tendl
Ratio
0.90
0.95
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
31
Incident Energy (eV)
76-0s-193

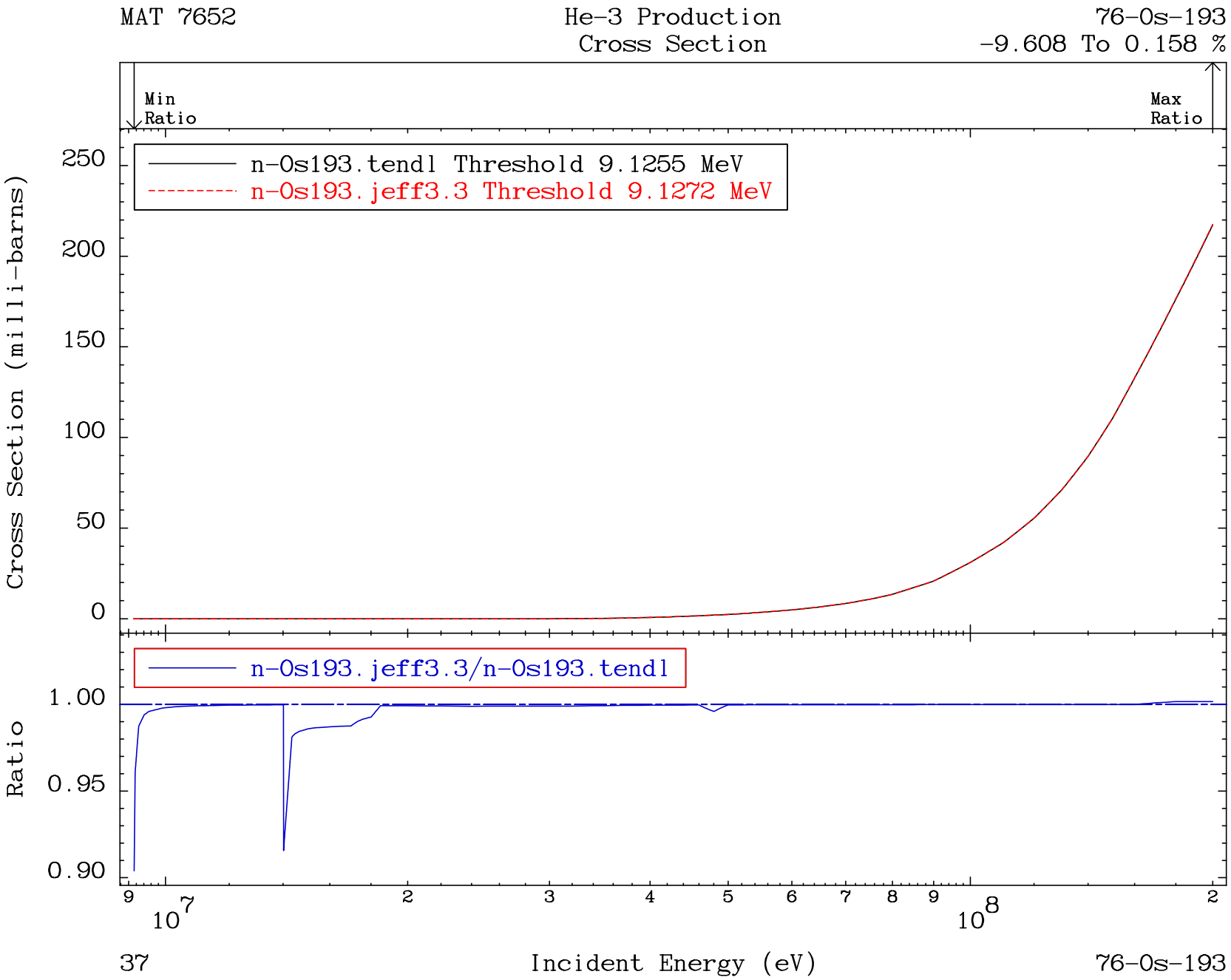

MAT 7652
(n,α)
Cross Section
76-0s-193
-18.88 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
32
76-0s-193

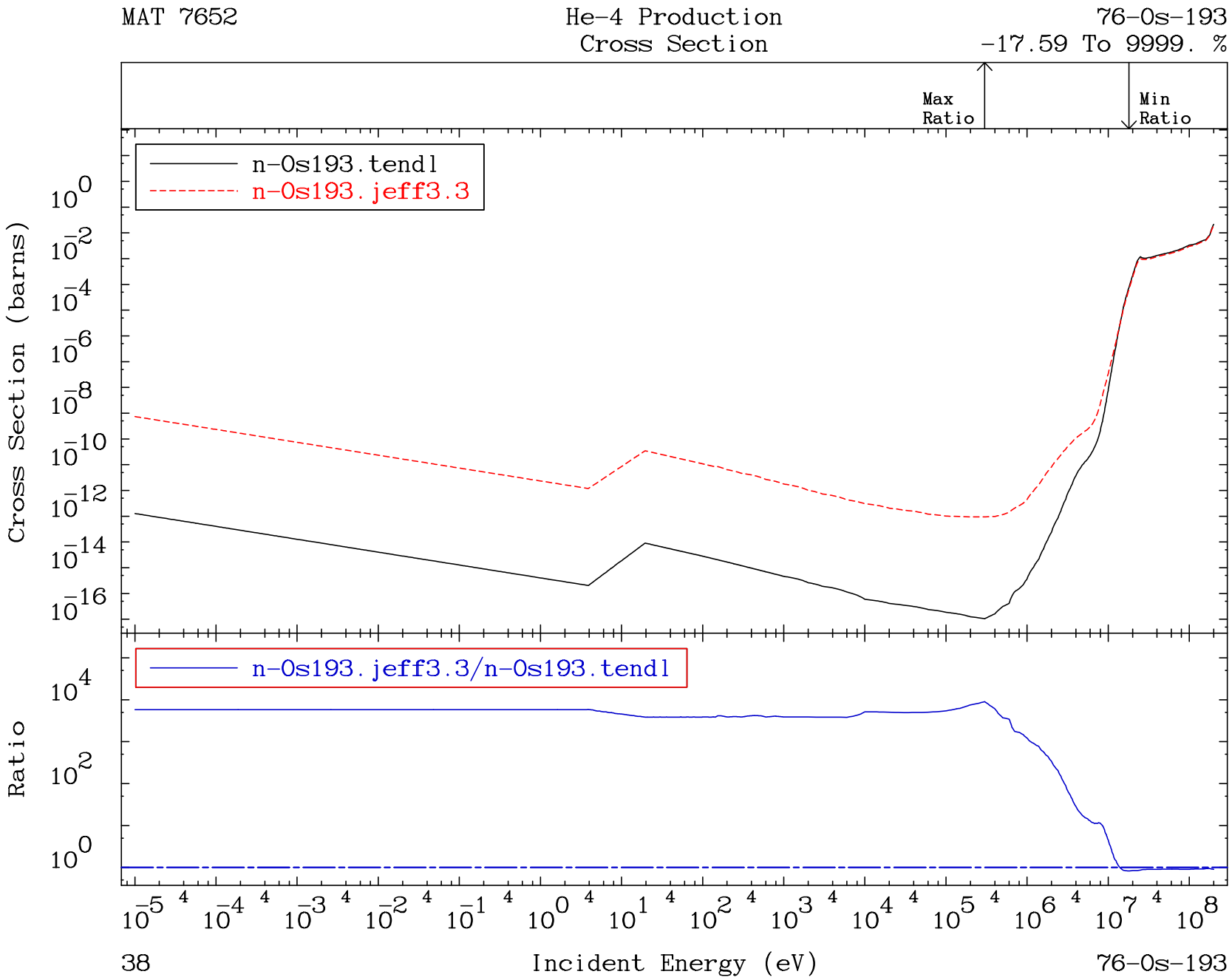

MAT 7652
(n,2p)
Cross Section
76-0s-193
-7.927 To 0.157 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 10.306 MeV
n-0s193.jeff3.3 Threshold 10.307 MeV
Cross Section (10^{-9} barns)
250
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.96
0.92
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
76-0s-193

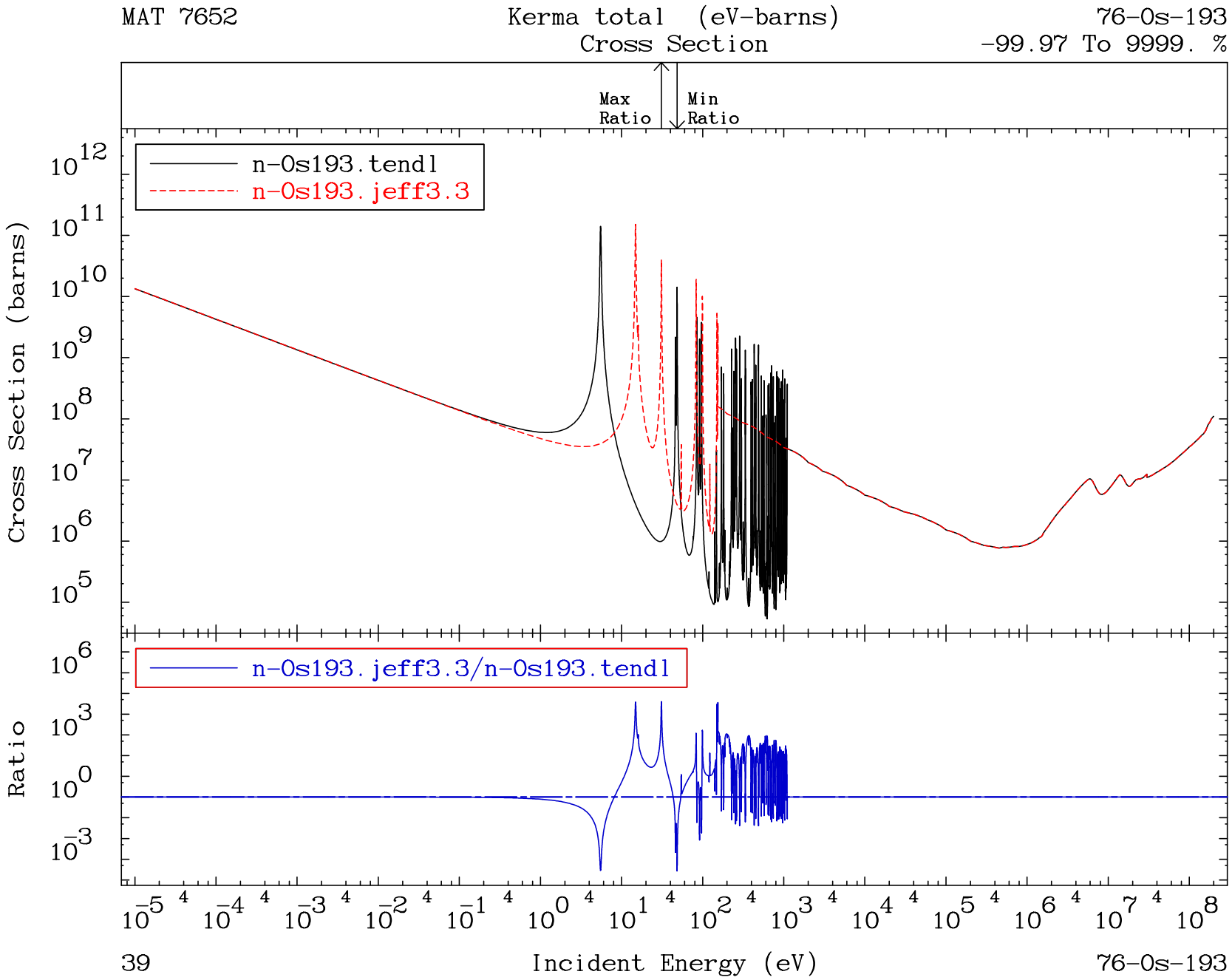

MAT 7652
Hydrogen Production
Cross Section
76-0s-193
-0.383 To 44.89 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 2.3927 MeV
n-0s193.jeff3.3 Threshold 2.3908 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.4
1.2
1.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
76-0s-193

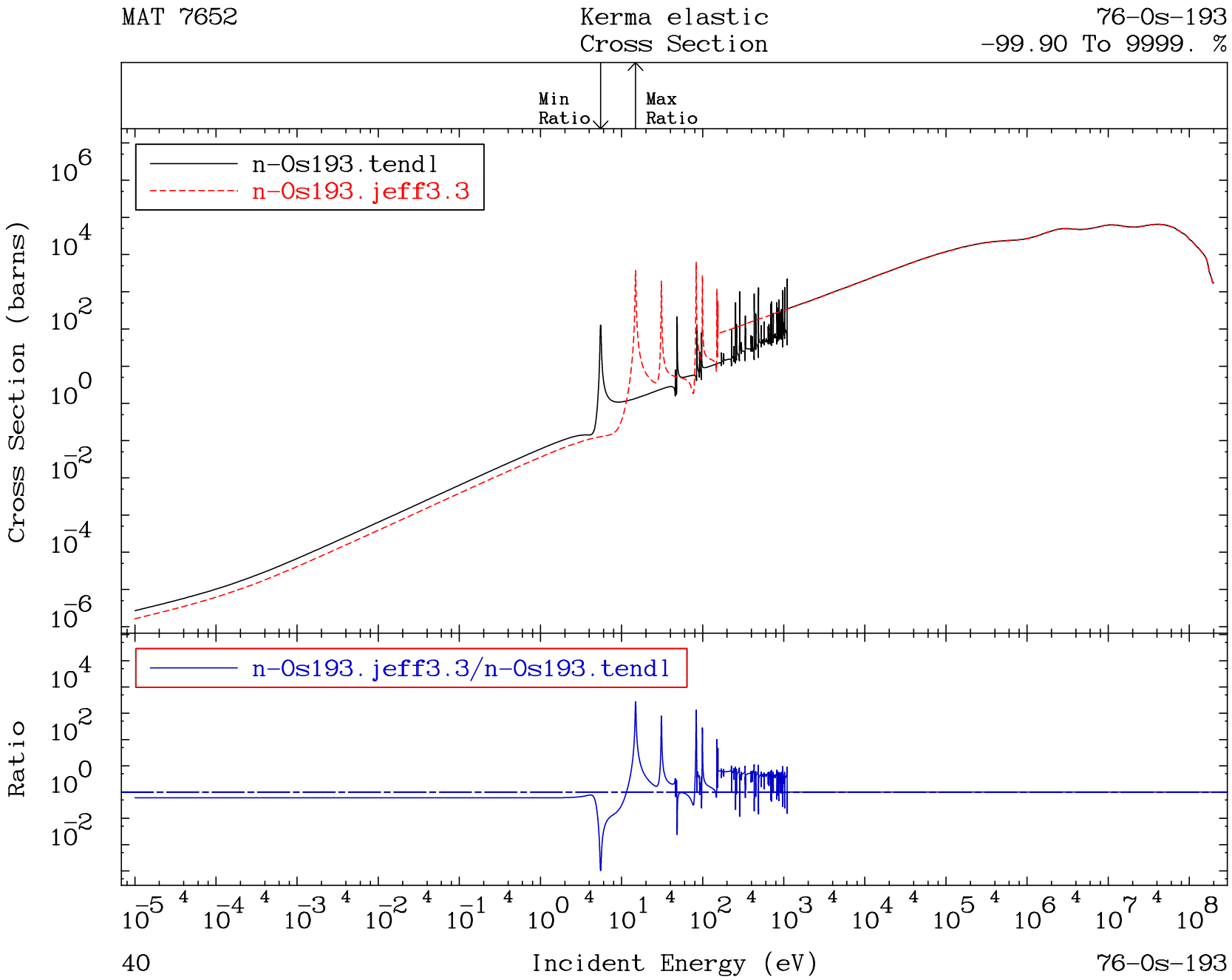

MAT 7652
Deuterium Production
Cross Section
76-0s-193
-11.50 To 1.950 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 6.9058 MeV
n-0s193.jeff3.3 Threshold 6.9075 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.05
1.00
0.95
0.90
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
76-0s-193

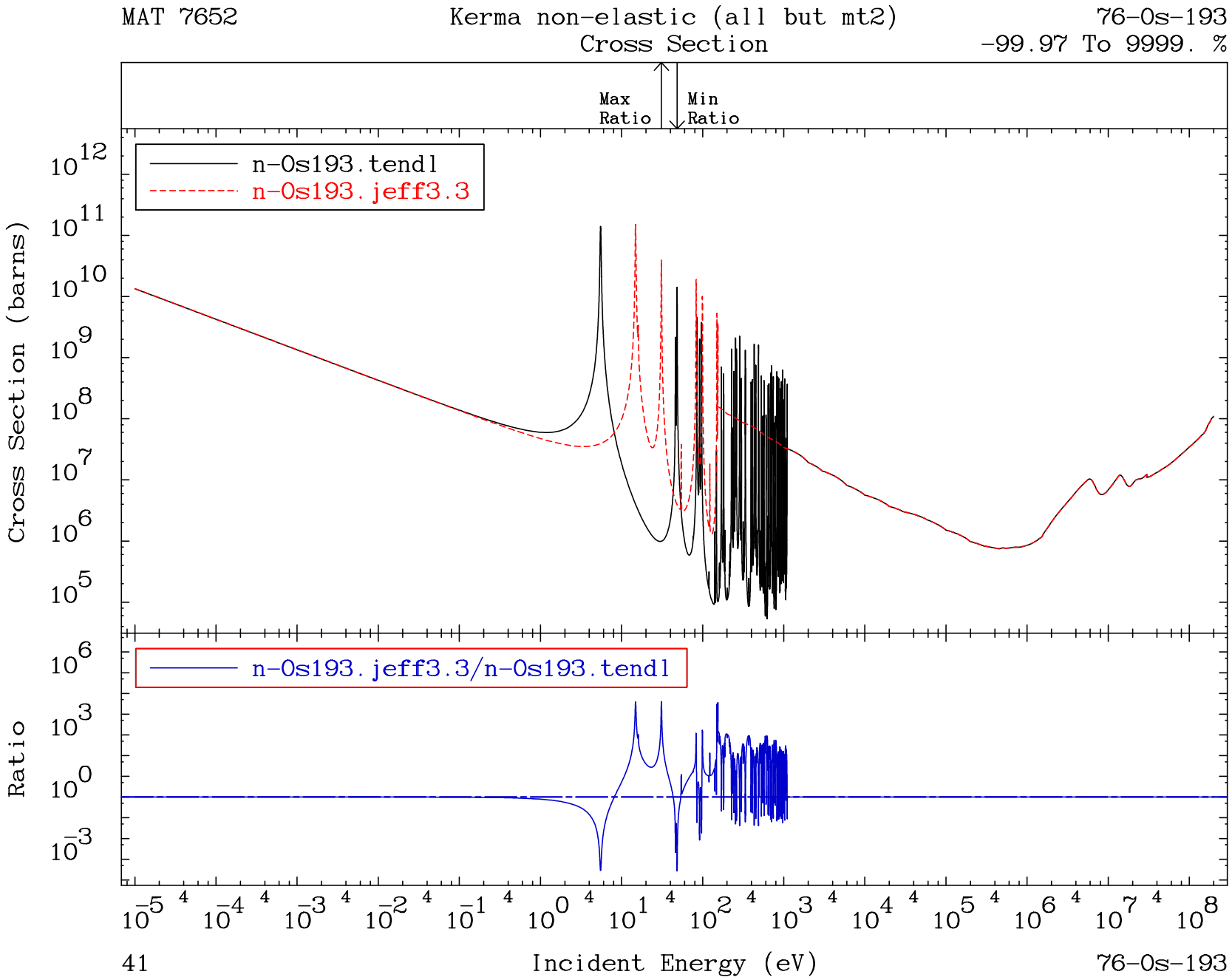

MAT 7652
Tritium Production
Cross Section
76-0s-193
-0.886 To 0.959 %
Min
Ratio
n-0s193.tendl Threshold 5.9534 MeV
n-0s193.jeff3.3 Threshold 5.9534 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
36
Incident Energy (eV)
76-0s-193

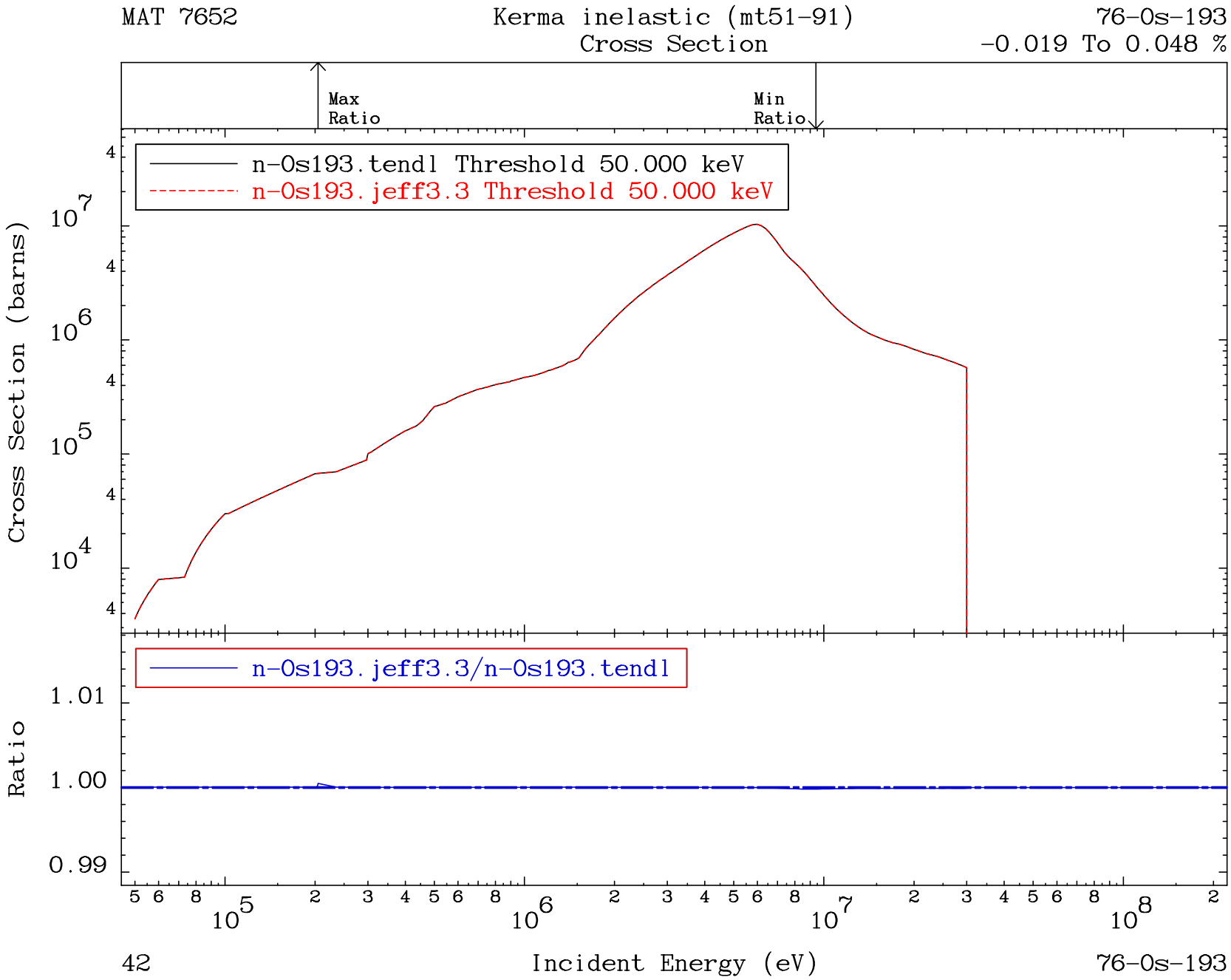

MAT 7652
He-3 Production
Cross Section
76-0s-193
-9.608 To 0.158 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 9.1255 MeV
n-0s193.jeff3.3 Threshold 9.1272 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.95
0.90
9
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
76-0s-193

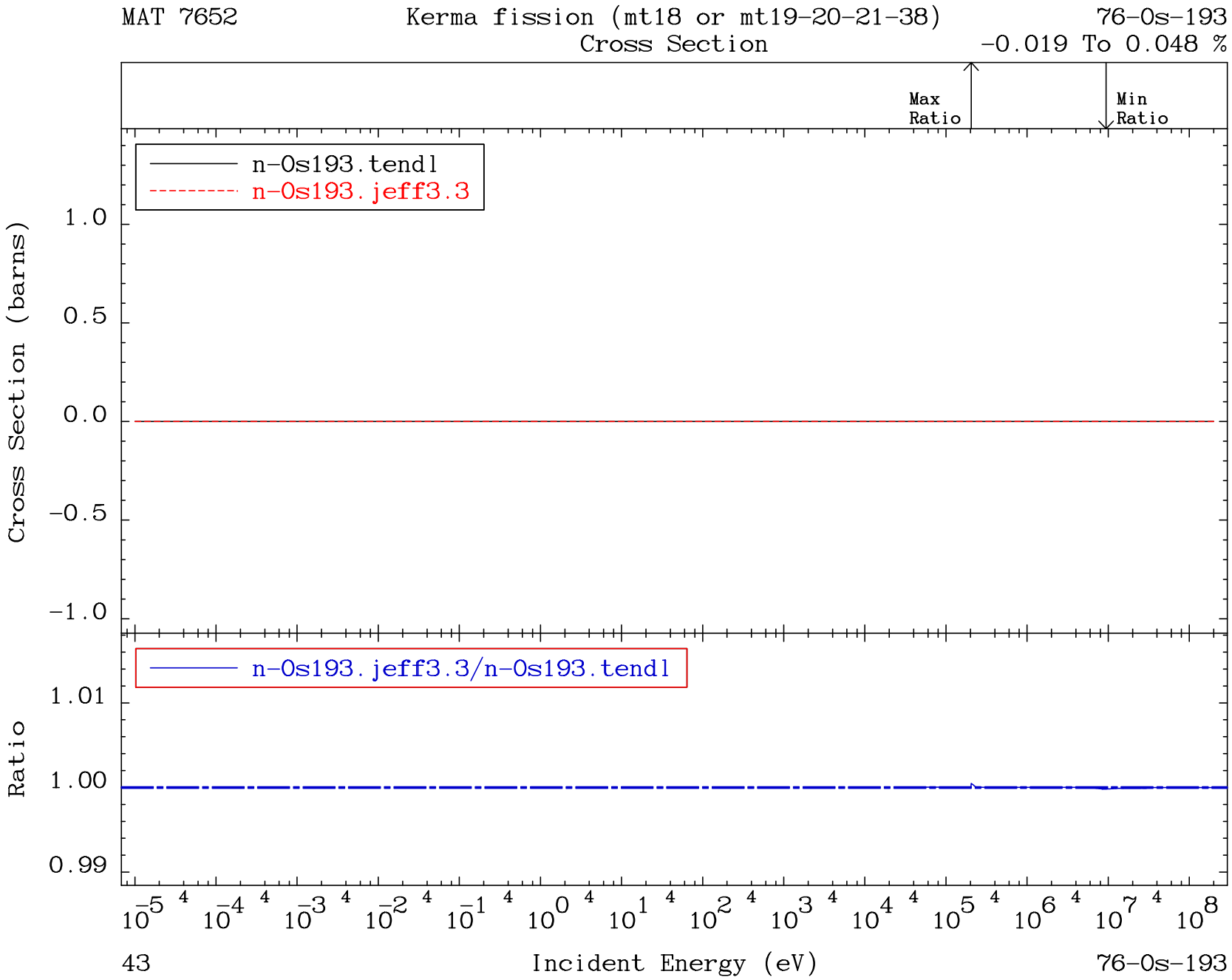

MAT 7652
He-4 Production
Cross Section
76-0s-193
-17.59 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
38
76-0s-193

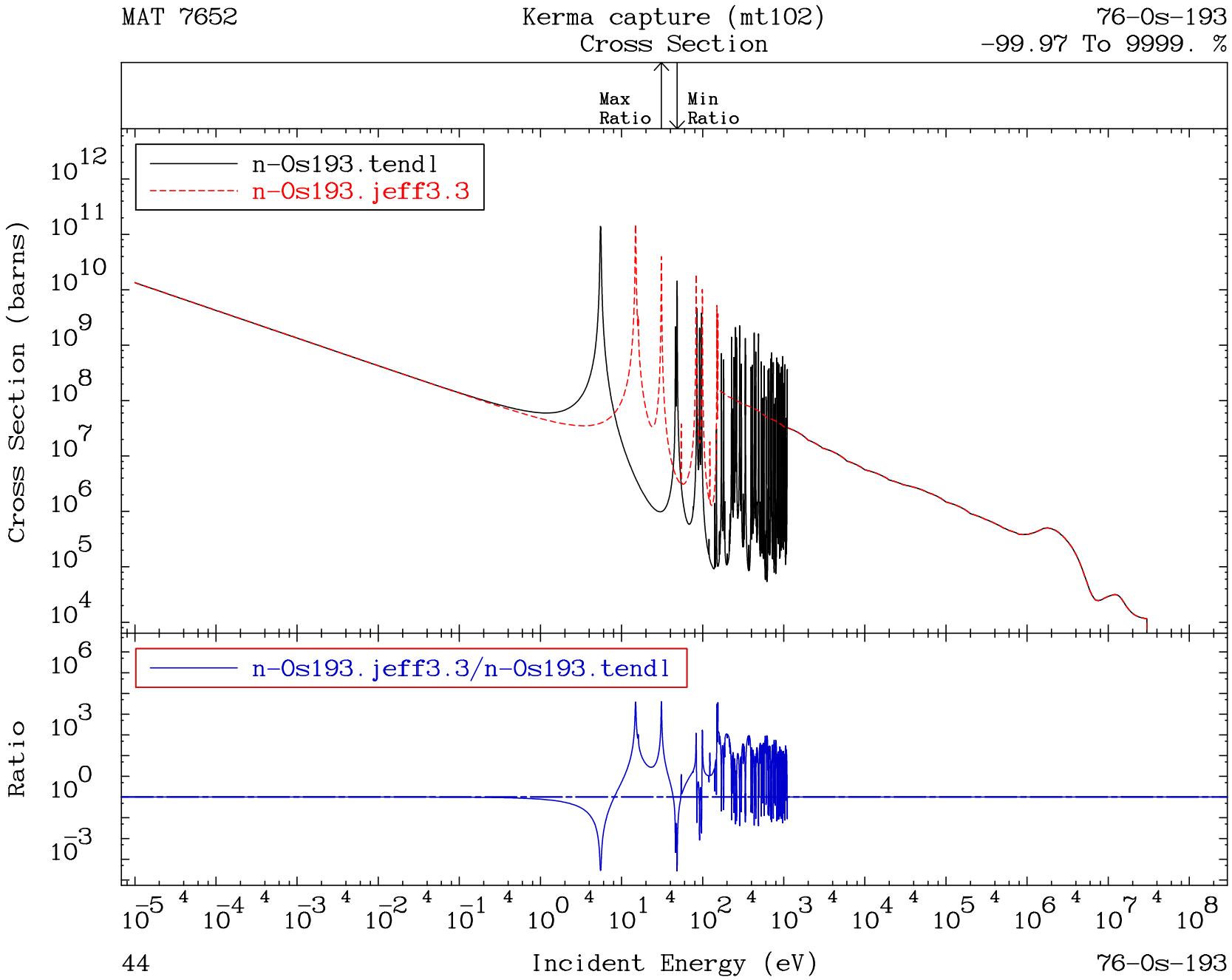

MAT 7652
Kerma total (eV-barns)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
39
Incident Energy (eV)
76-0s-193

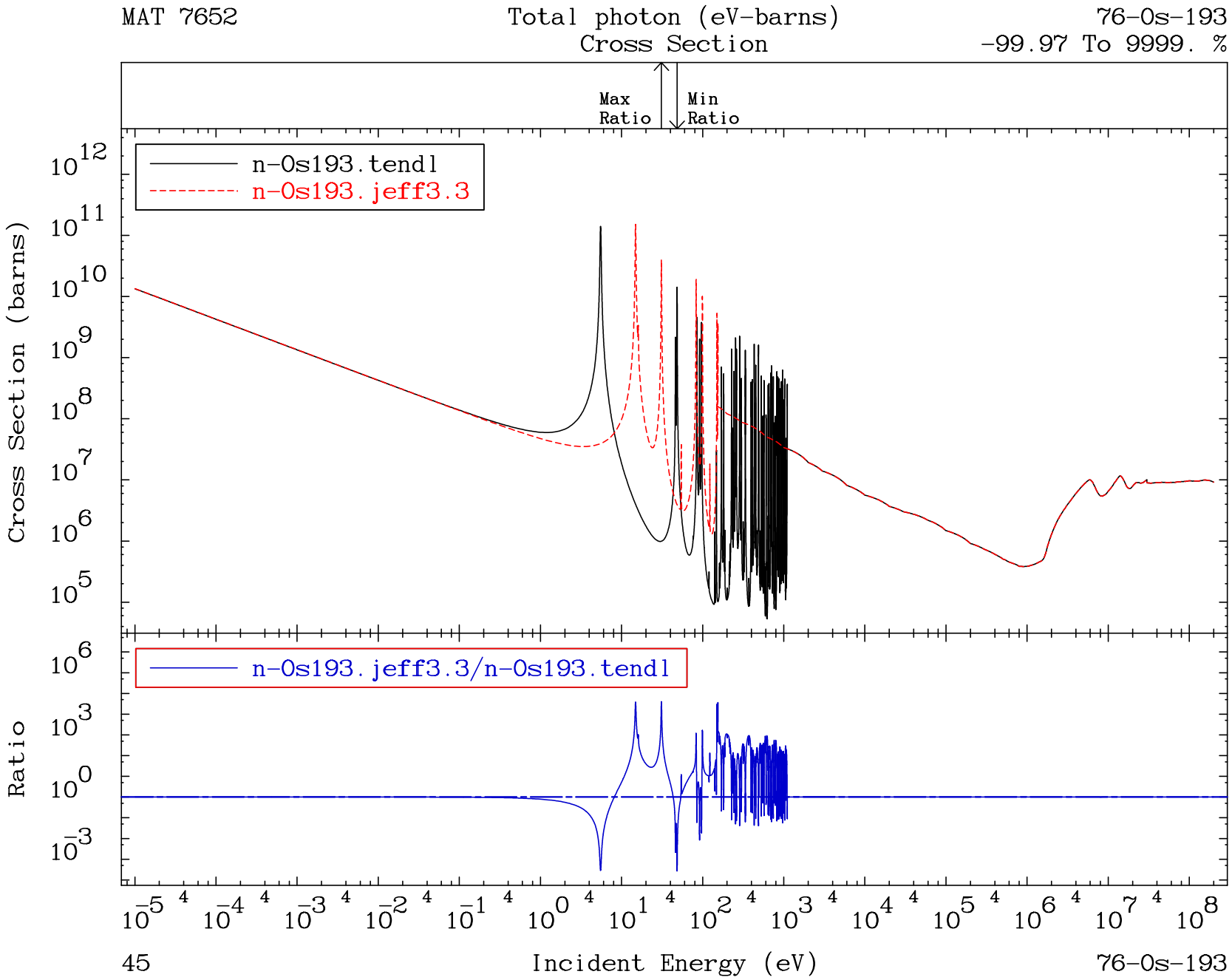

MAT 7652
Kerma elastic
Cross Section
76-0s-193
-99.90 To 9999. %
Min
Ratio
Max
Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
Ratio
n-0s193.jeff3.3/n-0s193.tendl
Incident Energy (eV)
40
76-0s-193

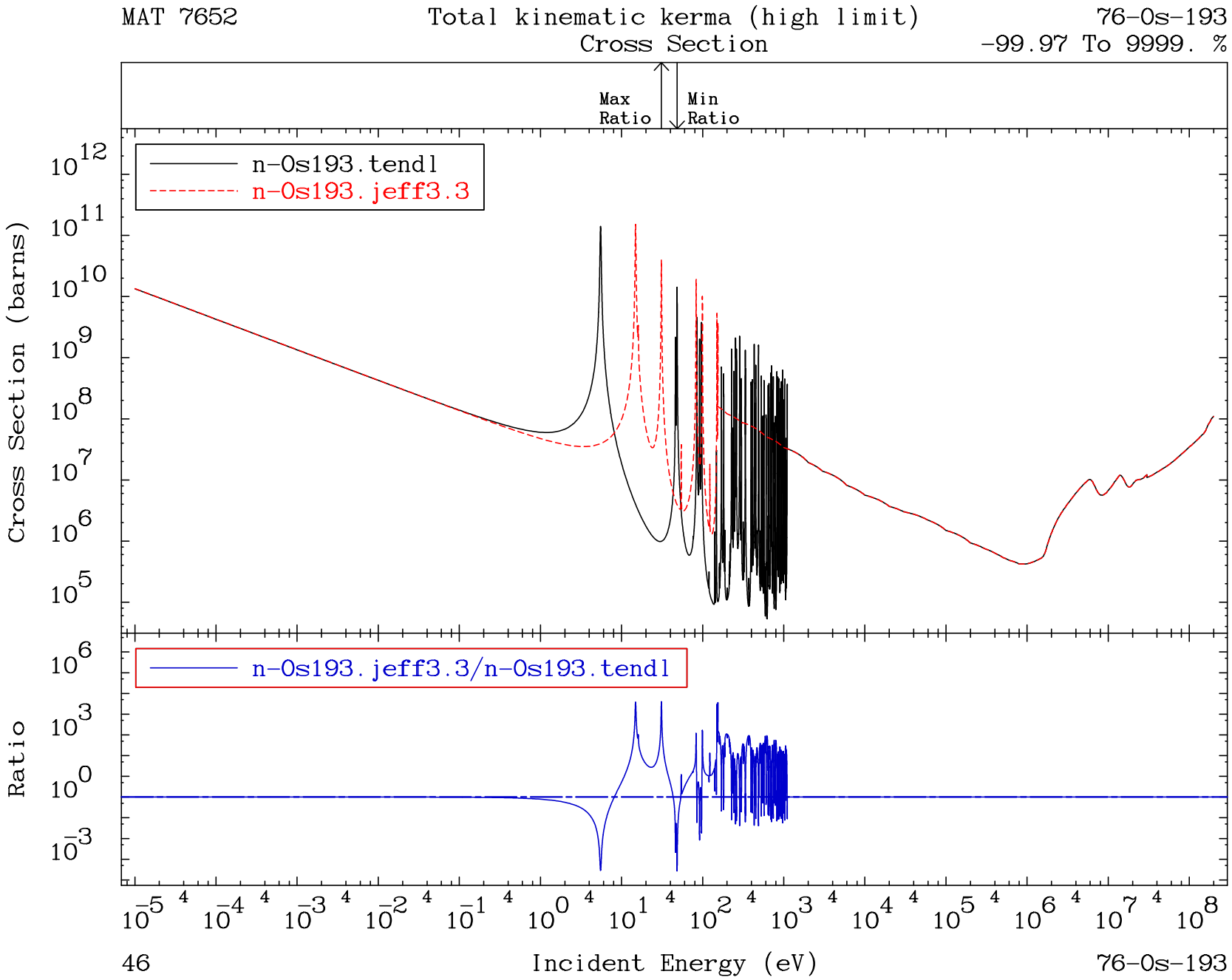

MAT 7652
Kerma non-elastic (all but mt2)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
41
76-0s-193

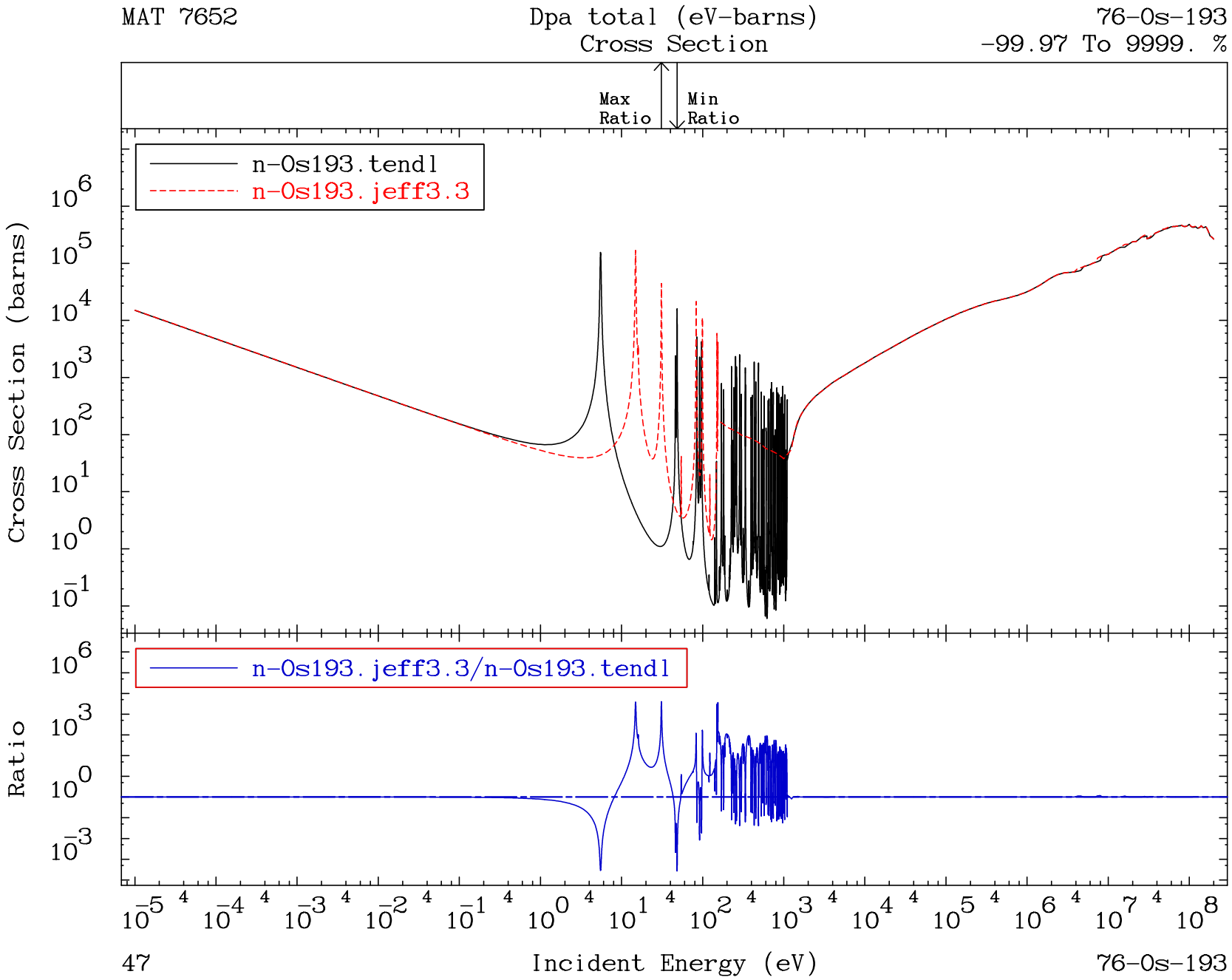

MAT 7652
Kerma inelastic (mt51-91)
Cross Section
76-0s-193
-0.019 To 0.048 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 50.000 keV
n-0s193.jeff3.3 Threshold 50.000 keV
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
42
76-0s-193

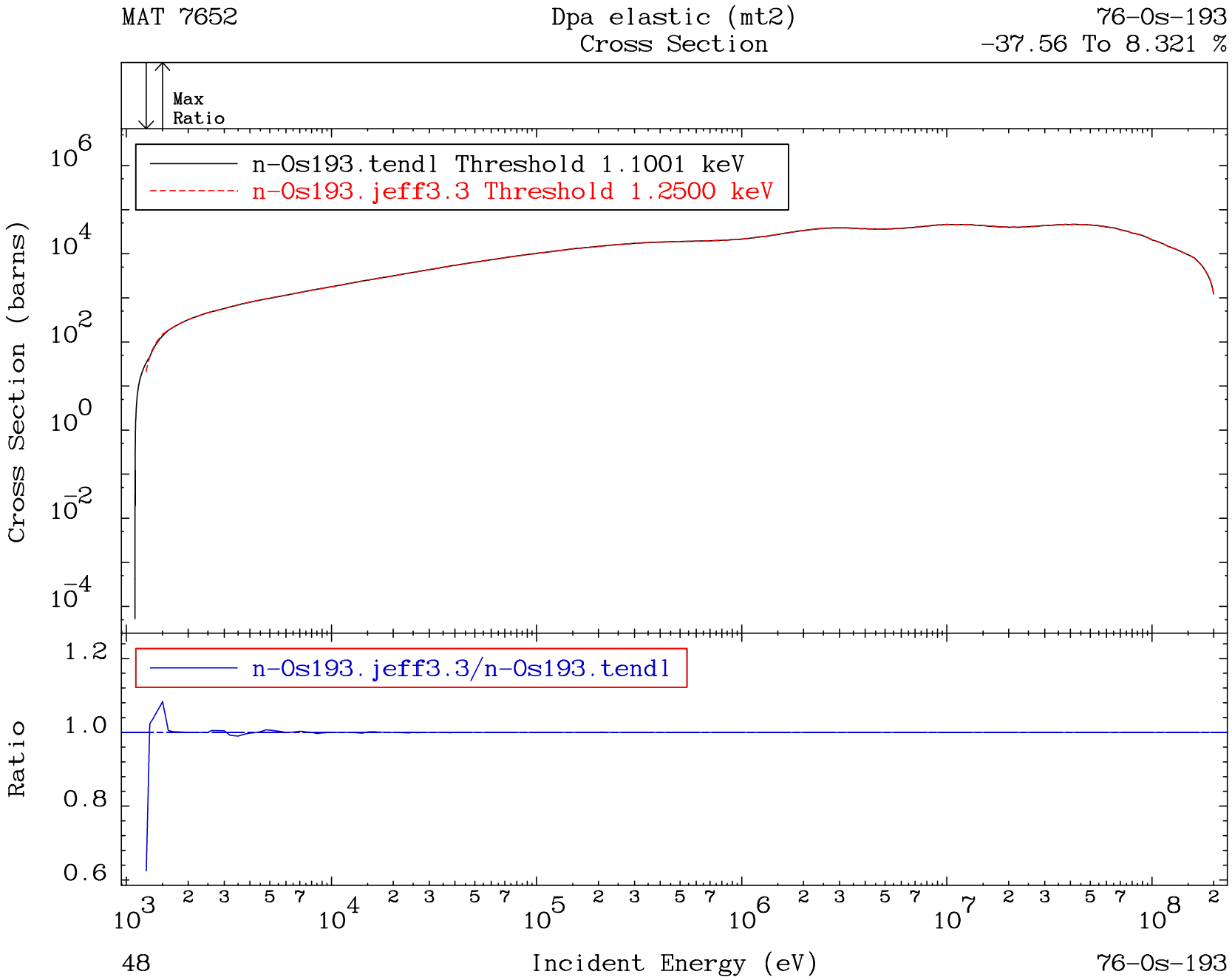

MAT 7652
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
76-0s-193
-0.019 To 0.048 %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
43
Incident Energy (eV)
76-0s-193

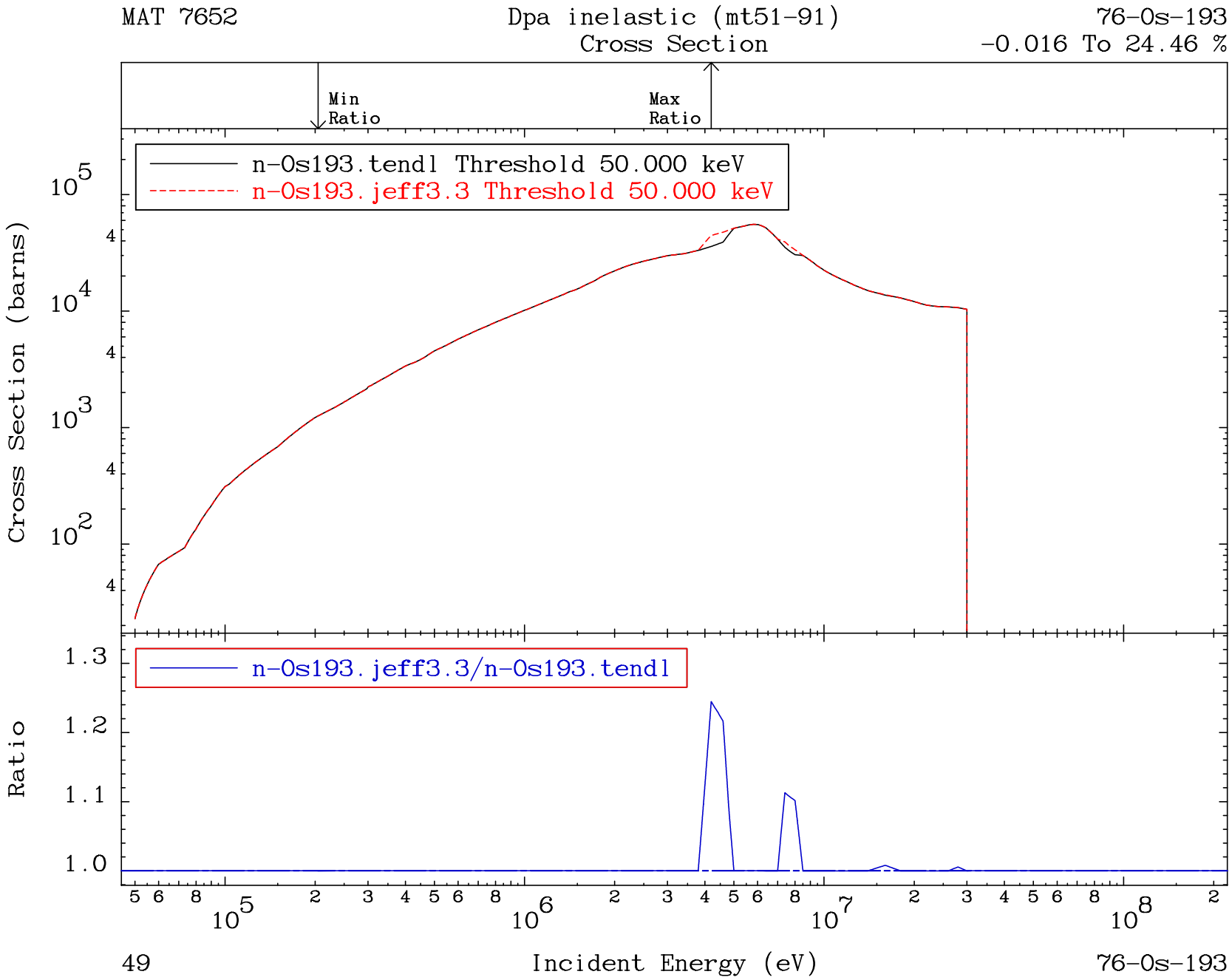

MAT 7652
Kerma capture (mt102)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
44
76-0s-193

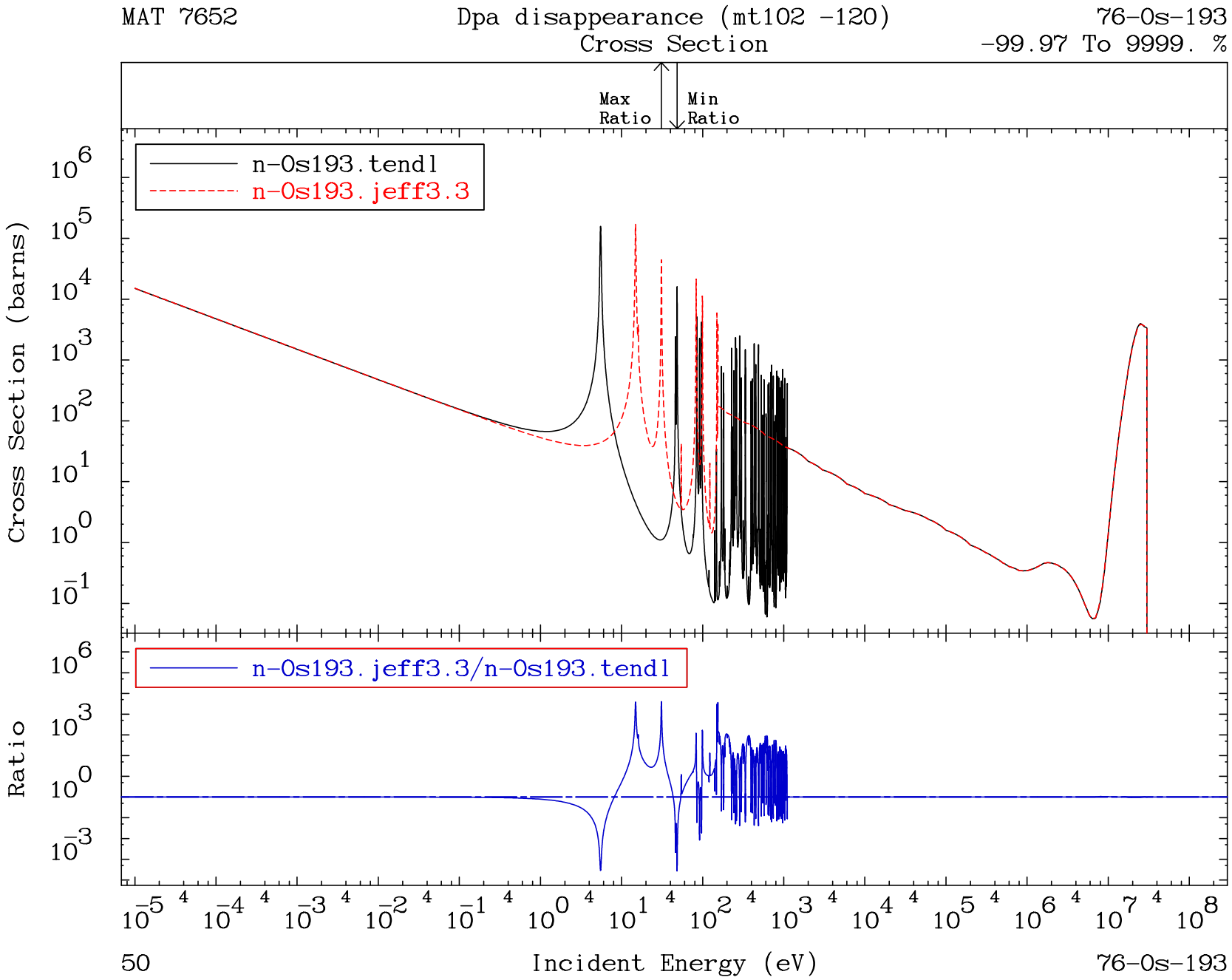

MAT 7652
Total photon (eV-barns)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
45
76-0s-193

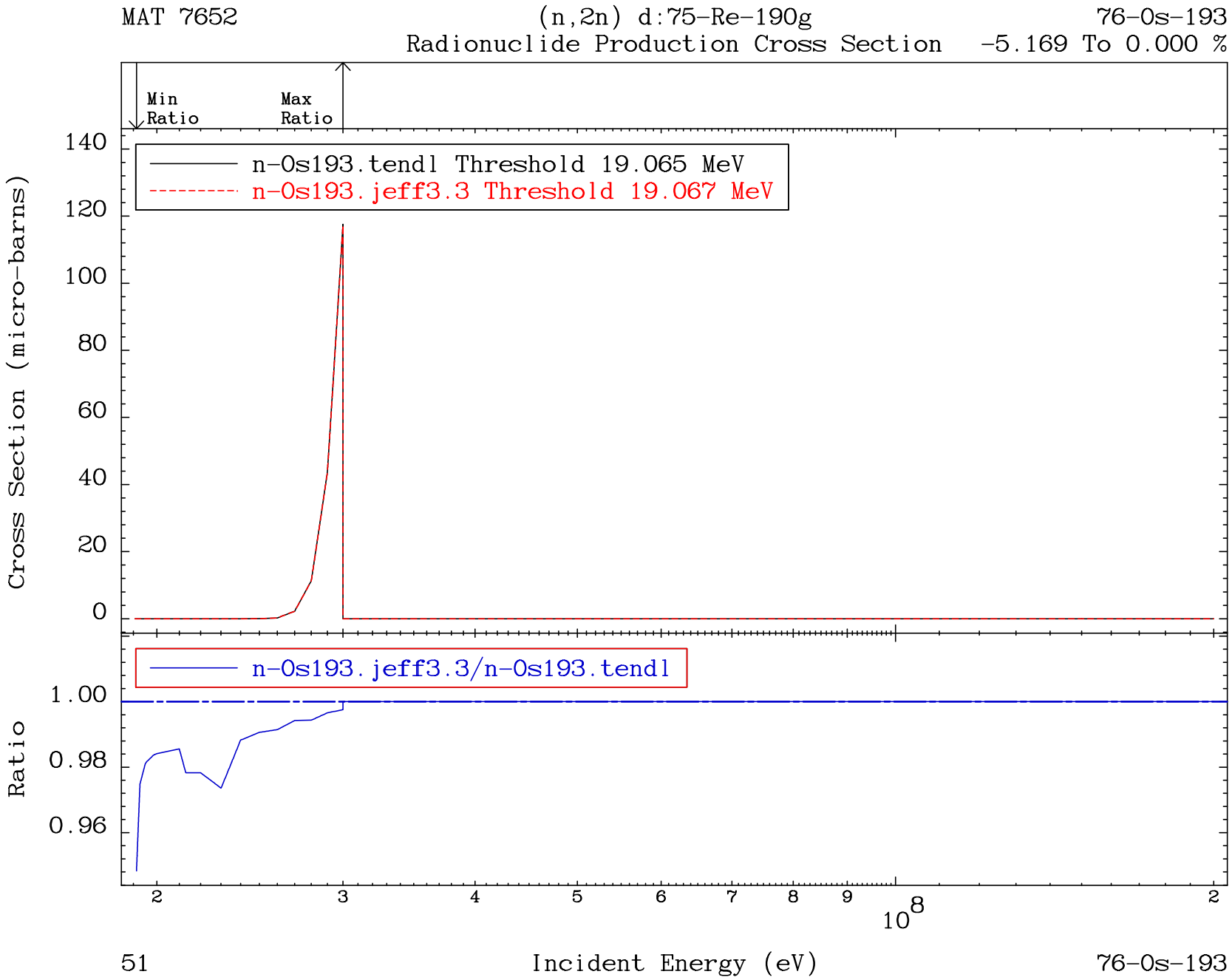

MAT 7652
Total kinematic kerma (high limit)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
46
76-0s-193

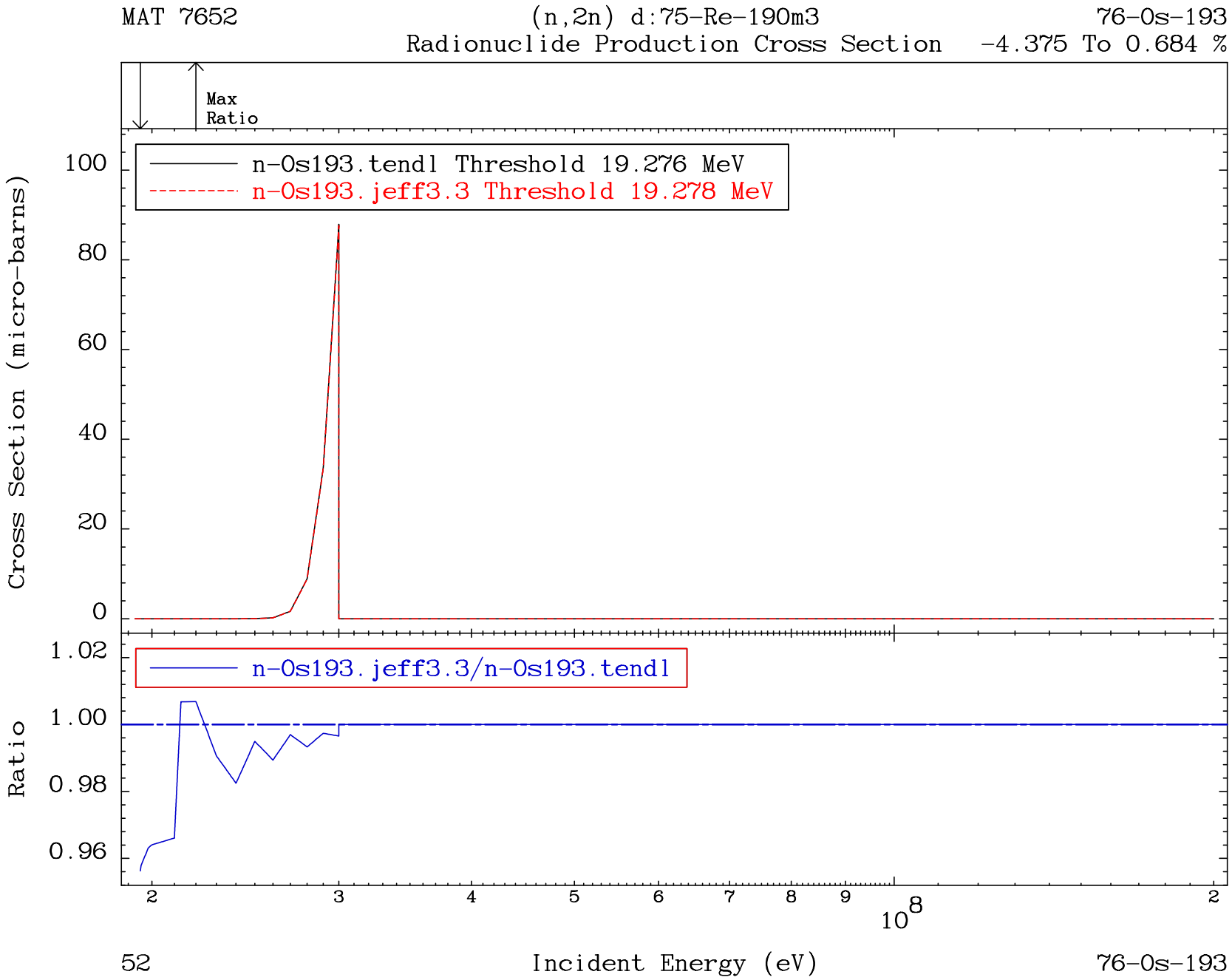

MAT 7652
Dpa total (eV-barns)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
47
76-0s-193

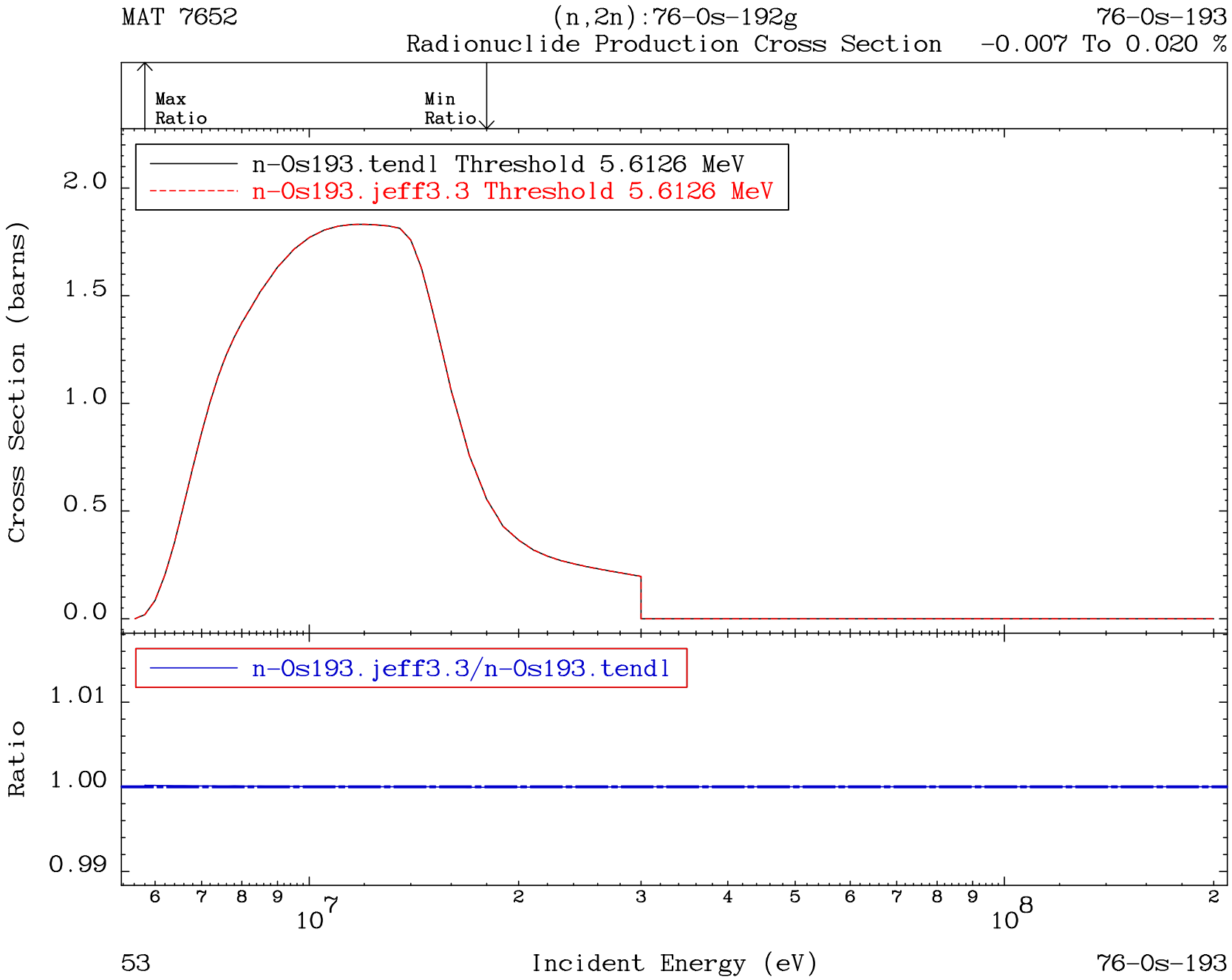

MAT 7652
Dpa elastic (mt2)
Cross Section
76-0s-193
-37.56 To 8.321 %
Max
Ratio
n-0s193.tendl Threshold 1.1001 keV
n-0s193.jeff3.3 Threshold 1.2500 keV
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
48
76-0s-193

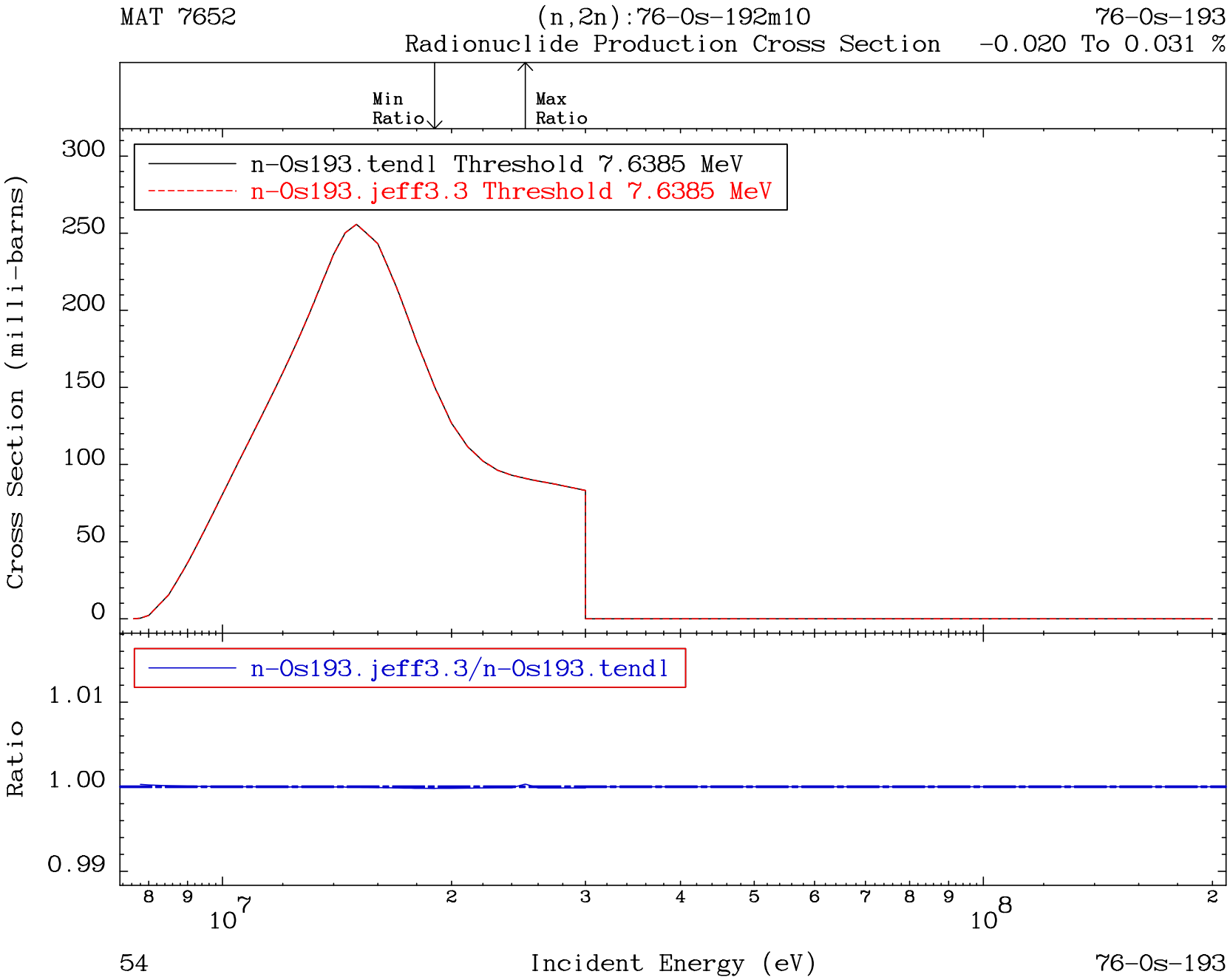

MAT 7652
Dpa inelastic (mt51-91)
Cross Section
76-0s-193
-0.016 To 24.46 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 50.000 keV
n-0s193.jeff3.3 Threshold 50.000 keV
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
49
76-0s-193

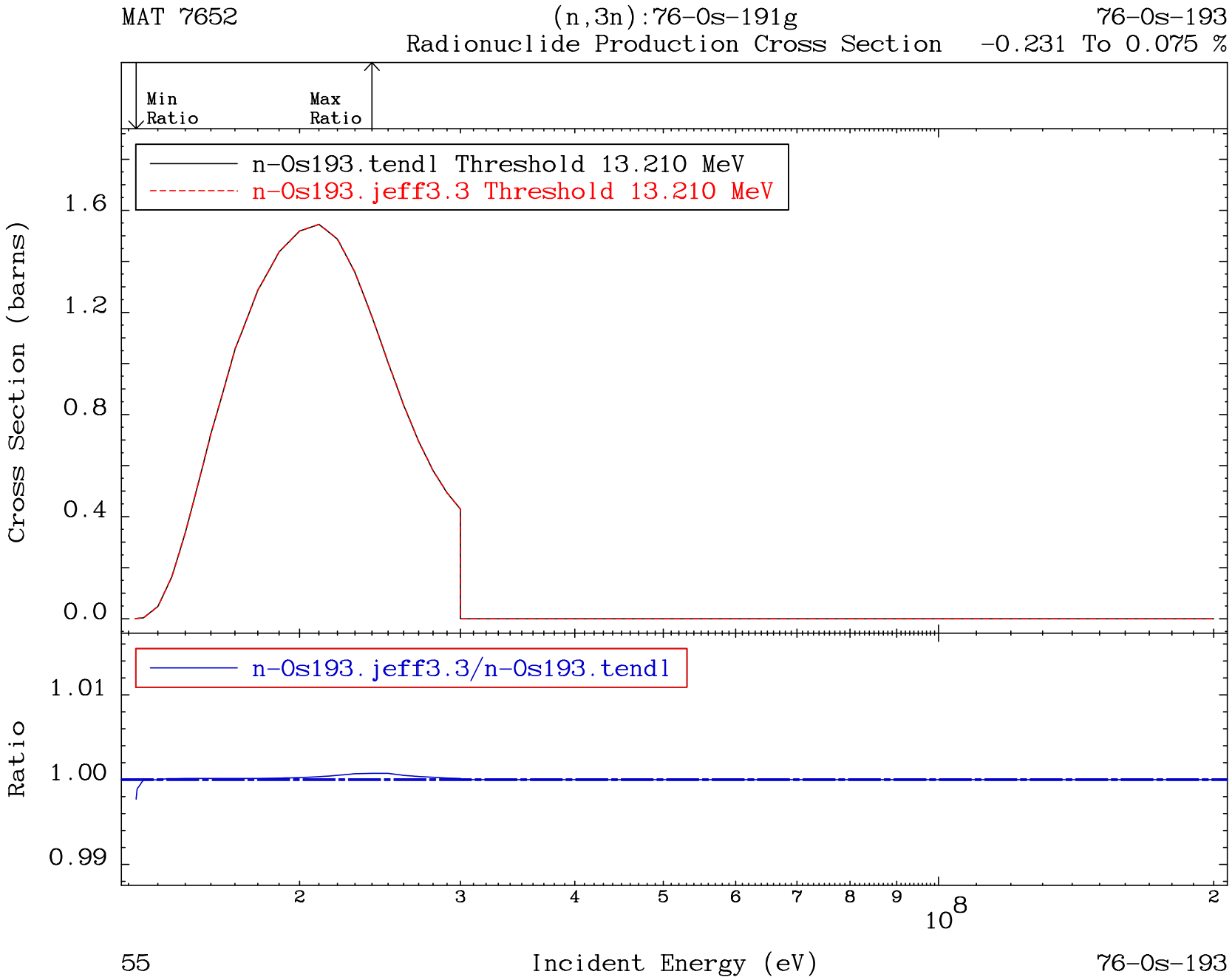

MAT 7652
Dpa disappearance (mt102 -120)
Cross Section
76-0s-193
-99.97 To 9999. %
Max Ratio
Min Ratio
n-0s193.tendl
n-0s193.jeff3.3
Cross Section (barns)
n-0s193.jeff3.3/n-0s193.tendl
Ratio
Incident Energy (eV)
50
76-0s-193

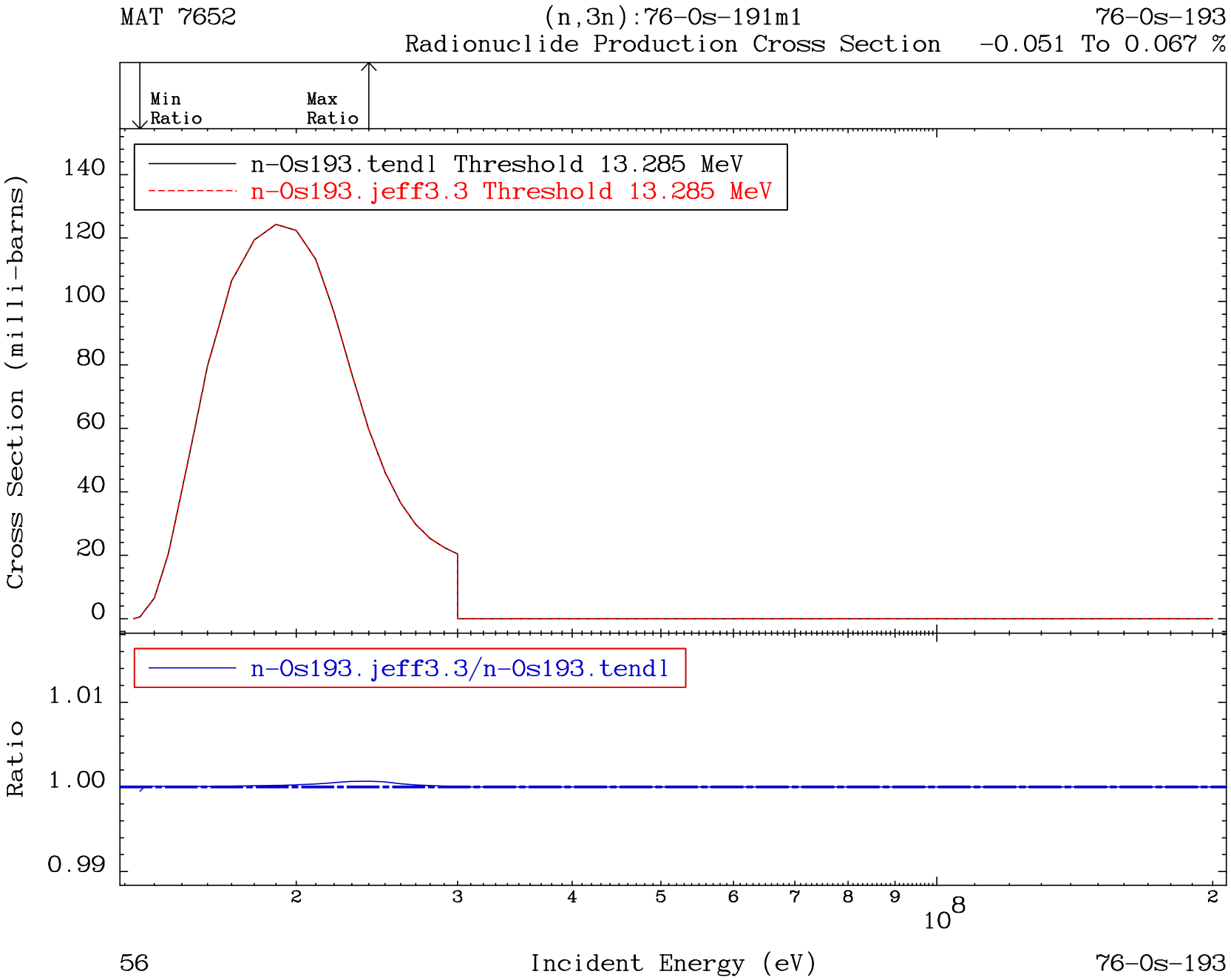

MAT 7652
(n,2n) d:75-Re-190g
76-0s-193
Radionuclide Production Cross Section
-5.169 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 19.065 MeV
n-0s193.jeff3.3 Threshold 19.067 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
76-0s-193

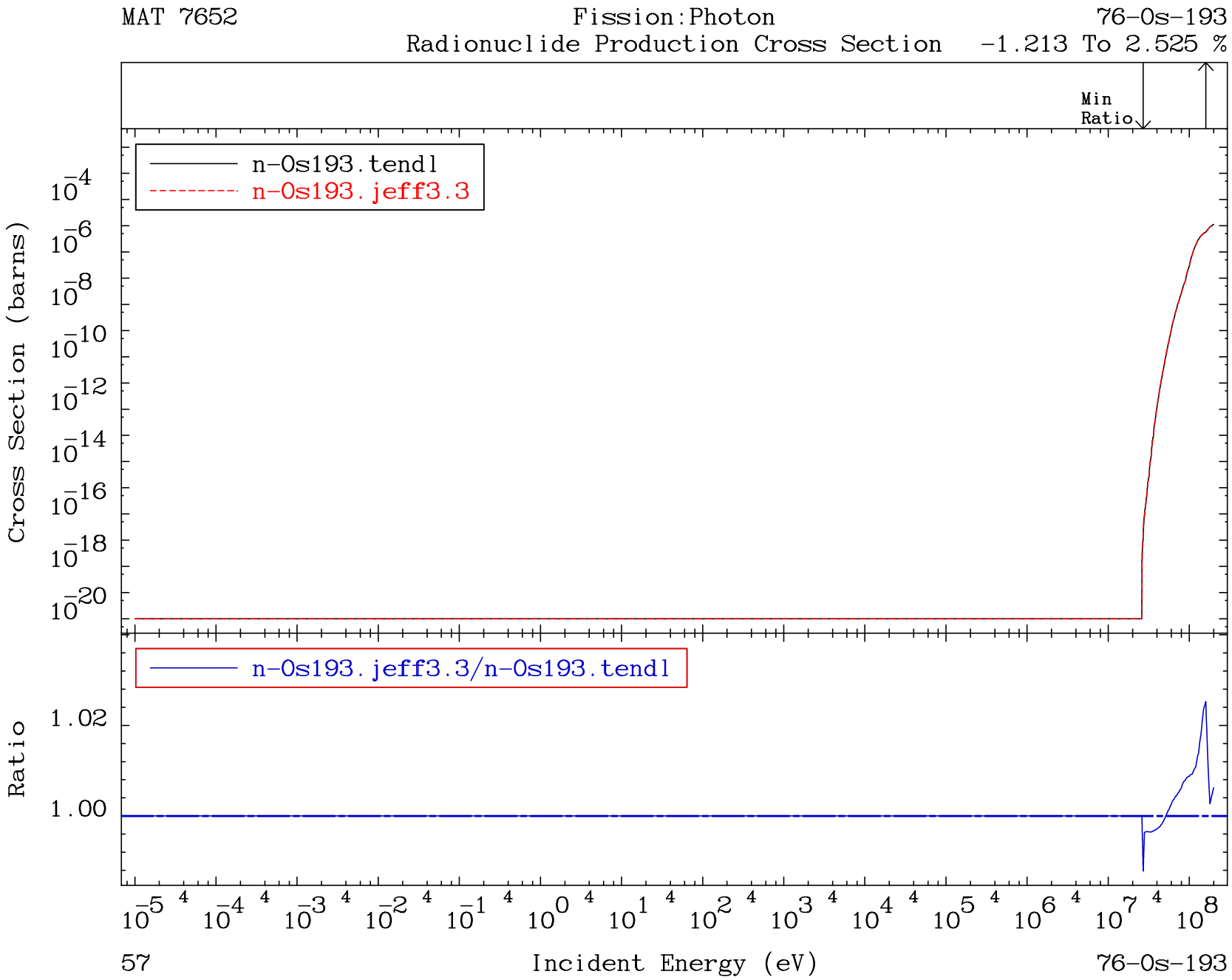

MAT 7652
(n,2n) d:75-Re-190m3
76-0s-193
Radionuclide Production Cross Section -4.375 To 0.684 %
Max
Ratio
n-0s193.tendl Threshold 19.276 MeV
n-0s193.jeff3.3 Threshold 19.278 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.02
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
76-0s-193

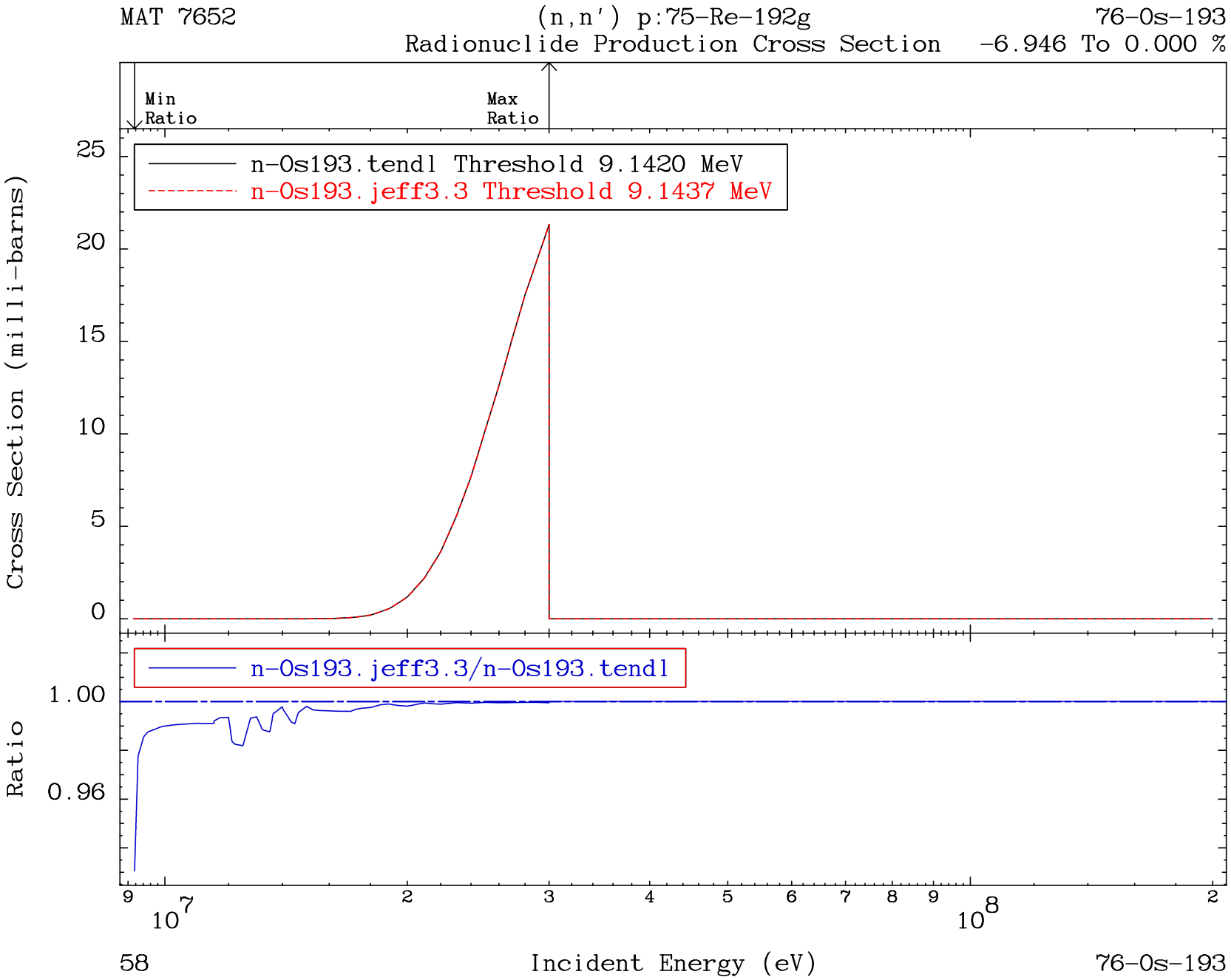

MAT 7652
(n,2n):76-0s-192g
76-0s-193
Radionuclide Production Cross Section
-0.007 To 0.020 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 5.6126 MeV
n-0s193.jeff3.3 Threshold 5.6126 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
53
Incident Energy (eV)
76-0s-193

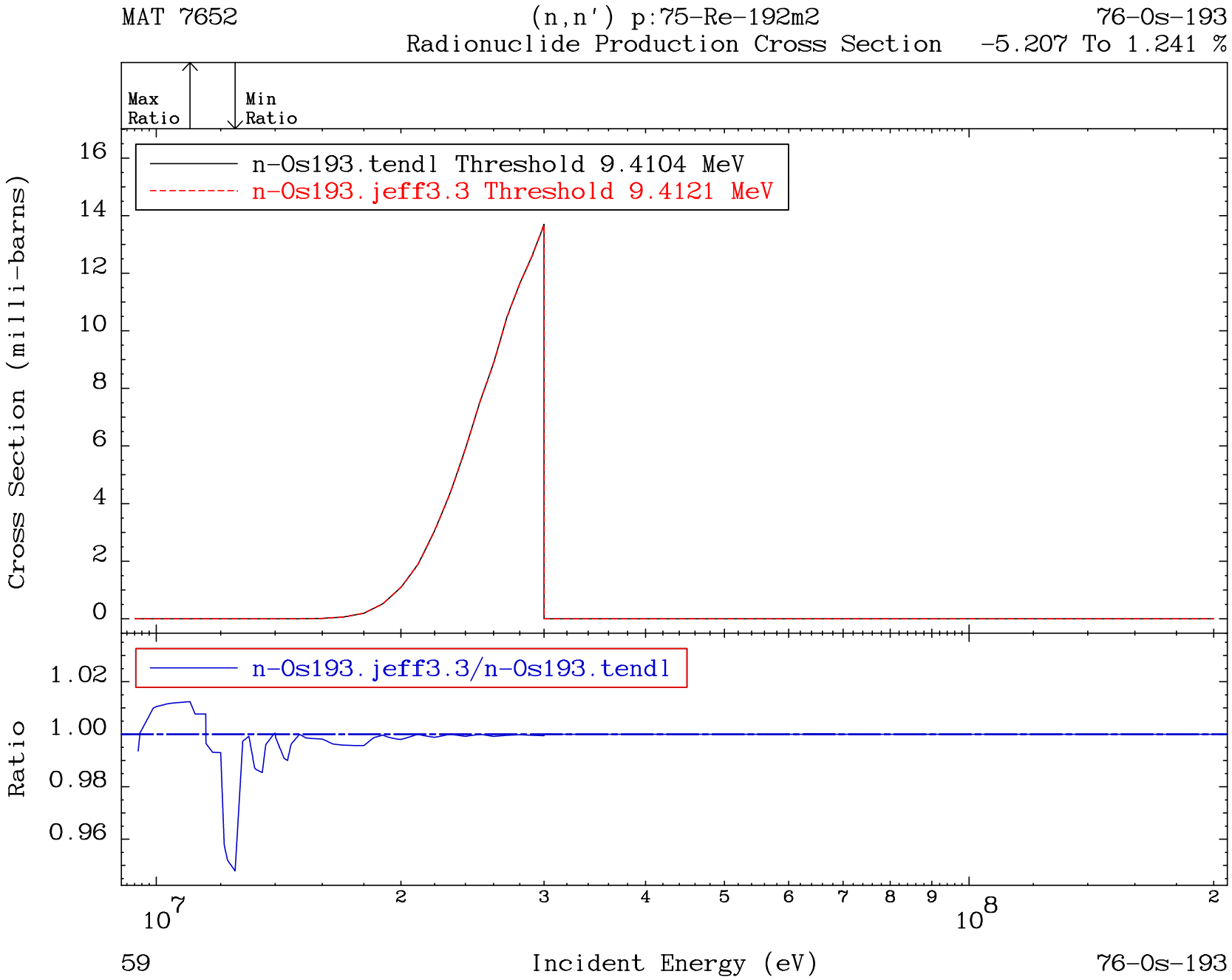

MAT 7652
(n,2n):76-0s-192m10
76-0s-193
Radionuclide Production Cross Section -0.020 To 0.031 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 7.6385 MeV
n-0s193.jeff3.3 Threshold 7.6385 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
54
Incident Energy (eV)
76-0s-193

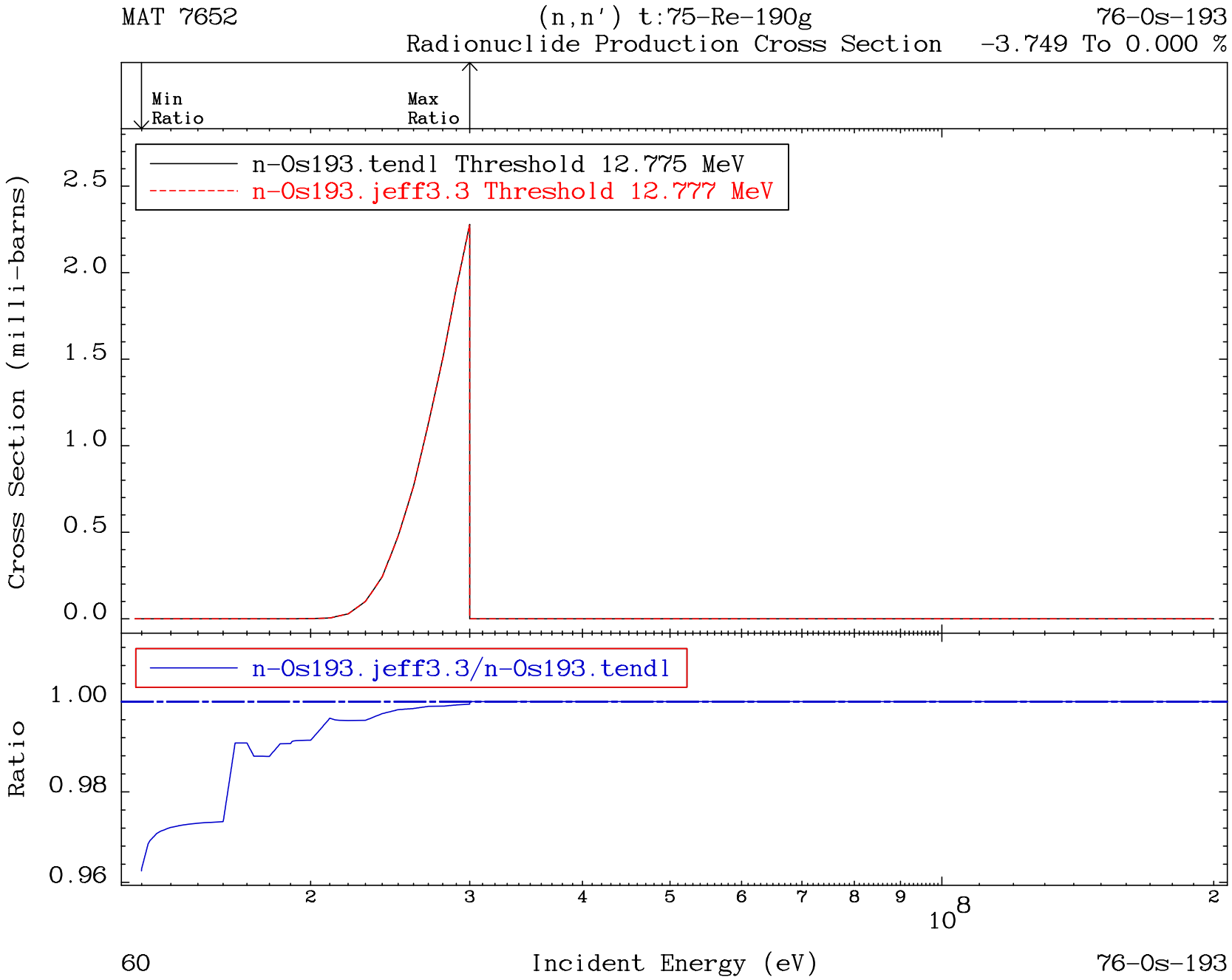

MAT 7652
(n,3n):76-0s-191g
76-0s-193
Radionuclide Production Cross Section
-0.231 To 0.075 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 13.210 MeV
n-0s193.jeff3.3 Threshold 13.210 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
76-0s-193

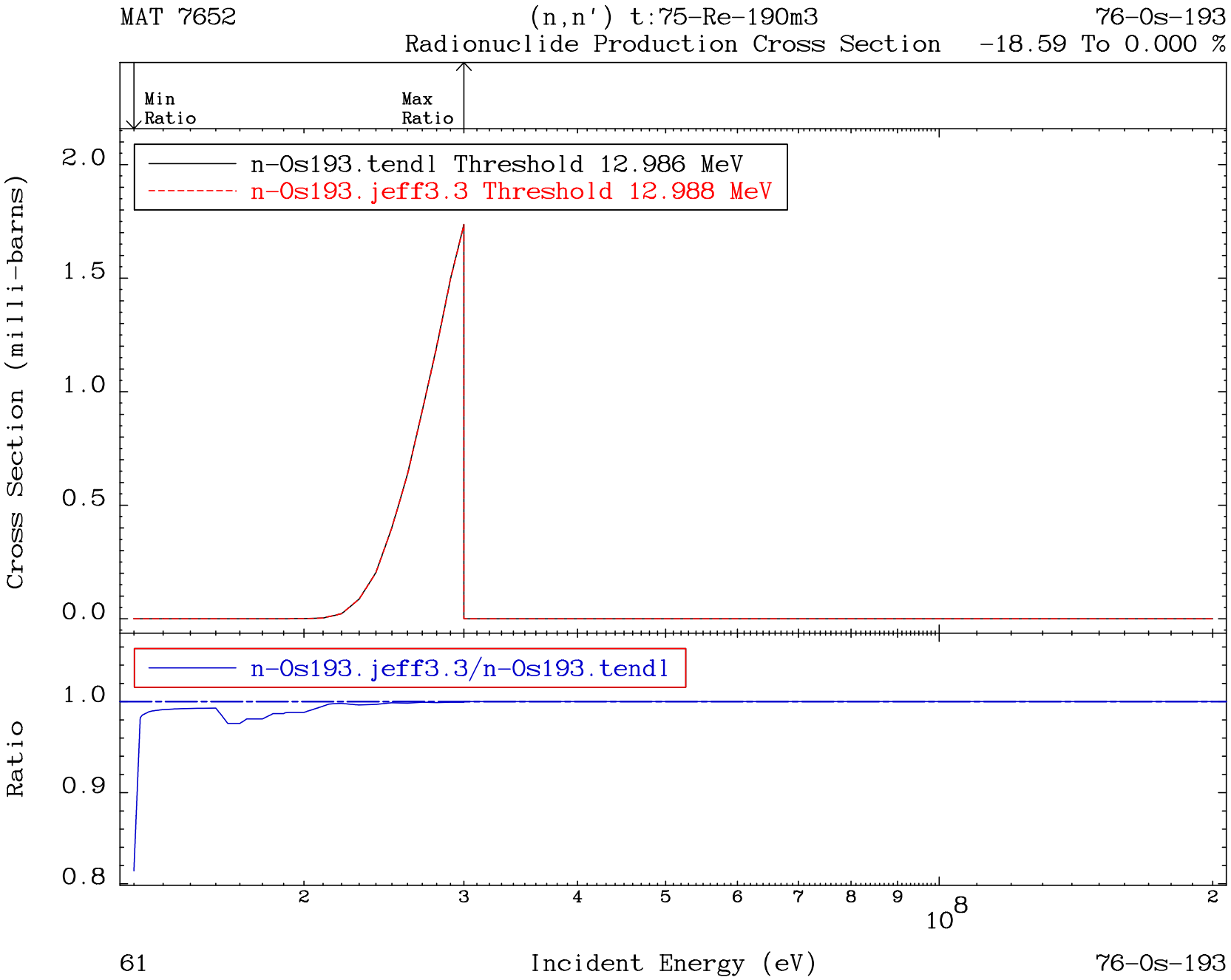

MAT 7652
(n,3n):76-0s-191m1
76-0s-193
Radionuclide Production Cross Section
-0.051 To 0.067 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 13.285 MeV
n-0s193.jeff3.3 Threshold 13.285 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
76-0s-193

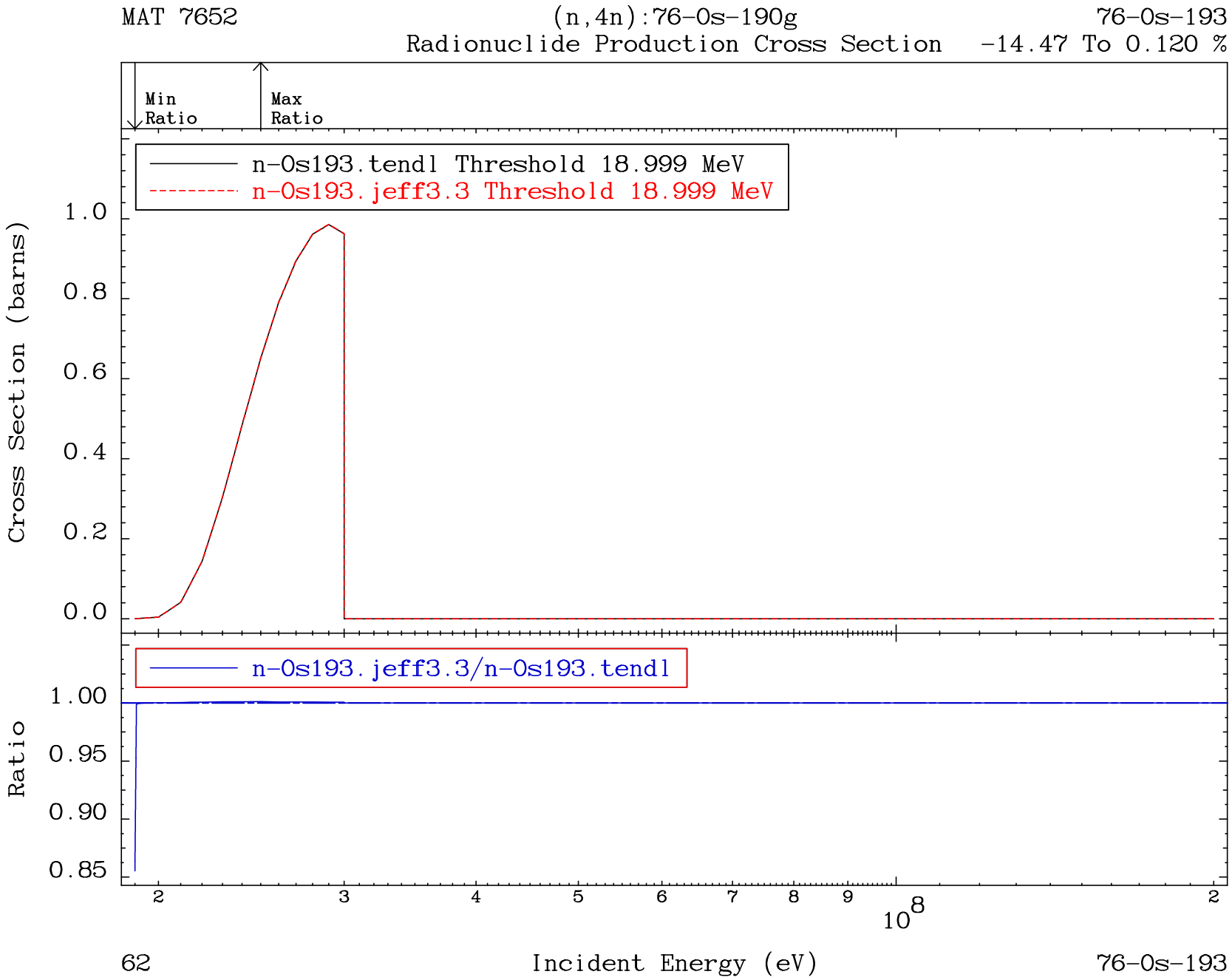

MAT 7652
Fission:Photon
76-Os-193
Radionuclide Production Cross Section
-1.213 To 2.525 %
Min
Ratio
n-Os193.tendl
n-Os193.jeff3.3
Cross Section (barns)
10^-4
10^-6
10^-8
10^-10
10^-12
10^-14
10^-16
10^-18
10^-20
n-Os193.jeff3.3/n-Os193.tendl
Ratio
1.02
1.00
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
57
Incident Energy (eV)
76-Os-193

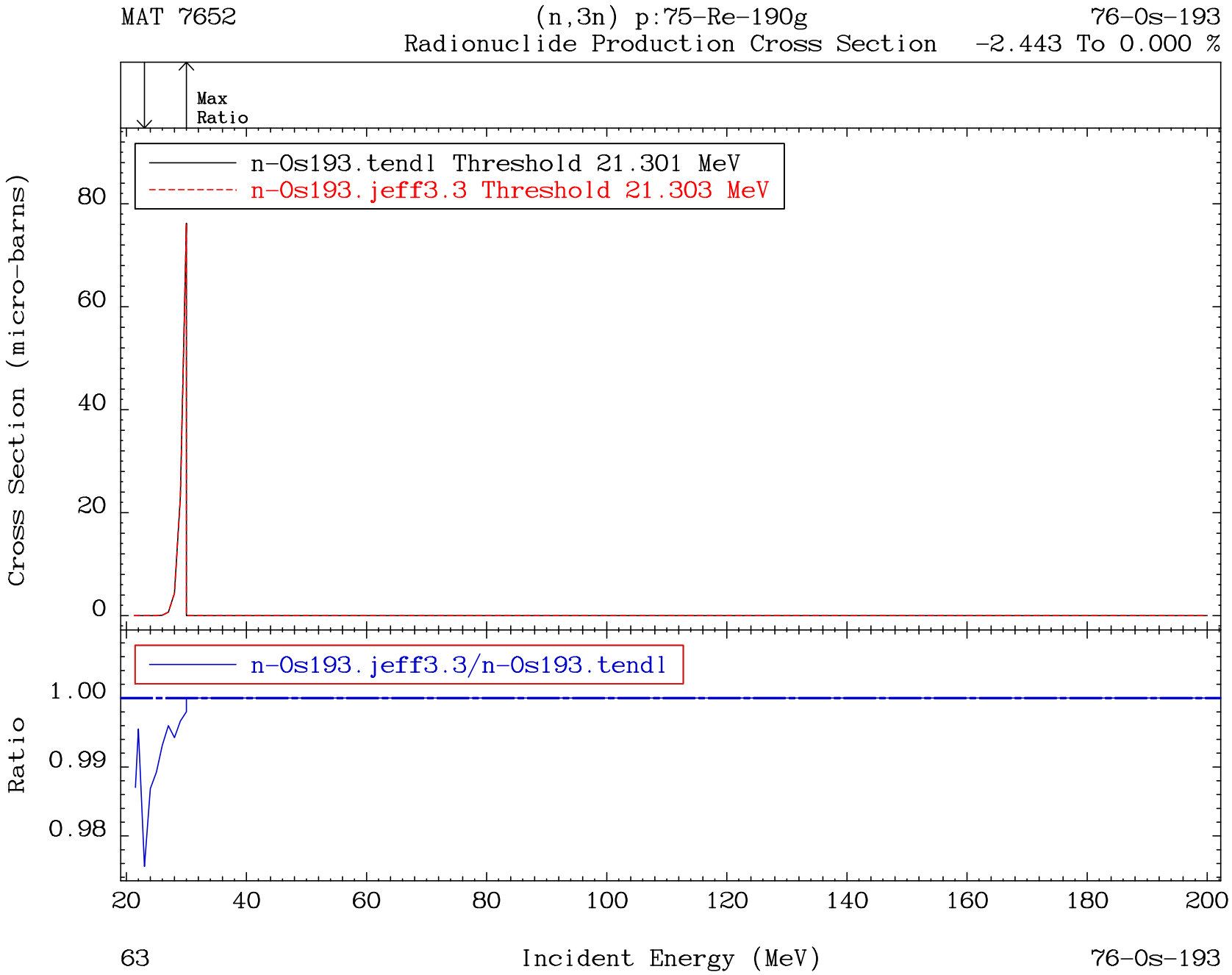

MAT 7652
(n,n') p:75-Re-192g
76-0s-193
Radionuclide Production Cross Section -6.946 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 9.1420 MeV
n-0s193.jeff3.3 Threshold 9.1437 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.96
9
10^7
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
76-0s-193

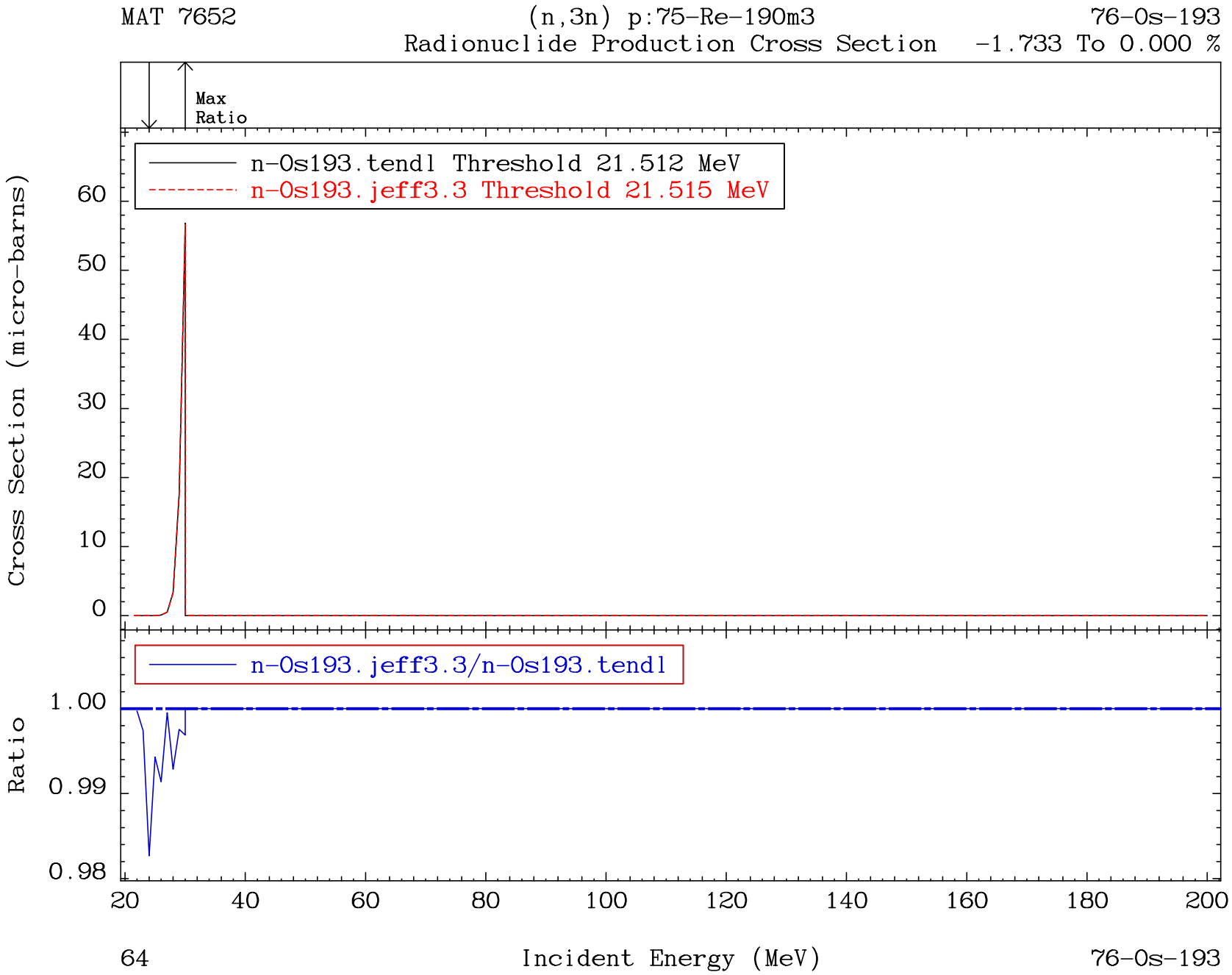

MAT 7652
(n,n') p:75-Re-192m2
76-0s-193
Radionuclide Production Cross Section -5.207 To 1.241 %
Max Ratio
Min Ratio
n-0s193.tendl Threshold 9.4104 MeV
n-0s193.jeff3.3 Threshold 9.4121 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.02
1.00
0.98
0.96
10^7
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
76-0s-193

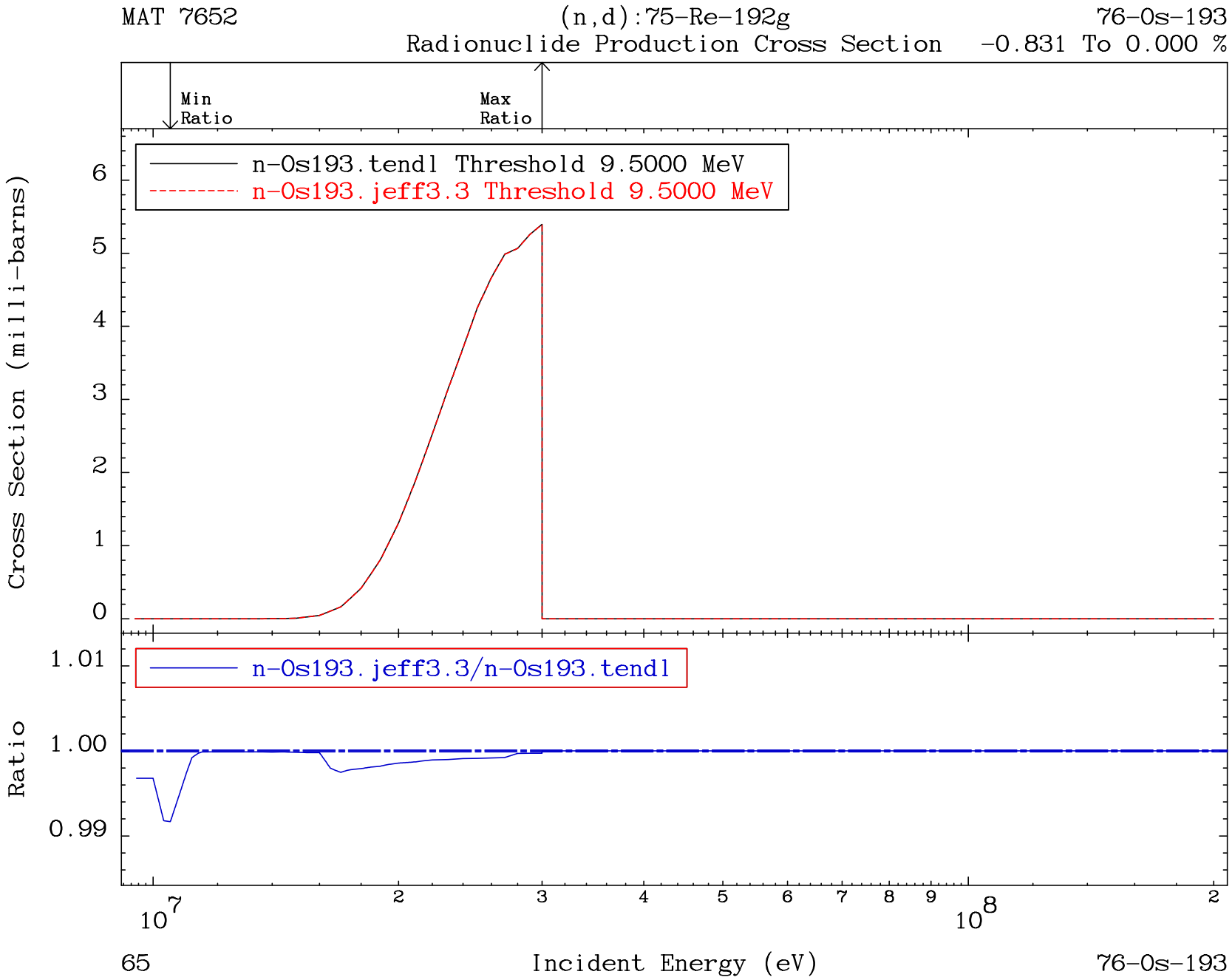

MAT 7652
(n,n') t:75-Re-190g
76-0s-193
Radionuclide Production Cross Section
-3.749 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 12.775 MeV
n-0s193.jeff3.3 Threshold 12.777 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.98
0.96
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
76-0s-193

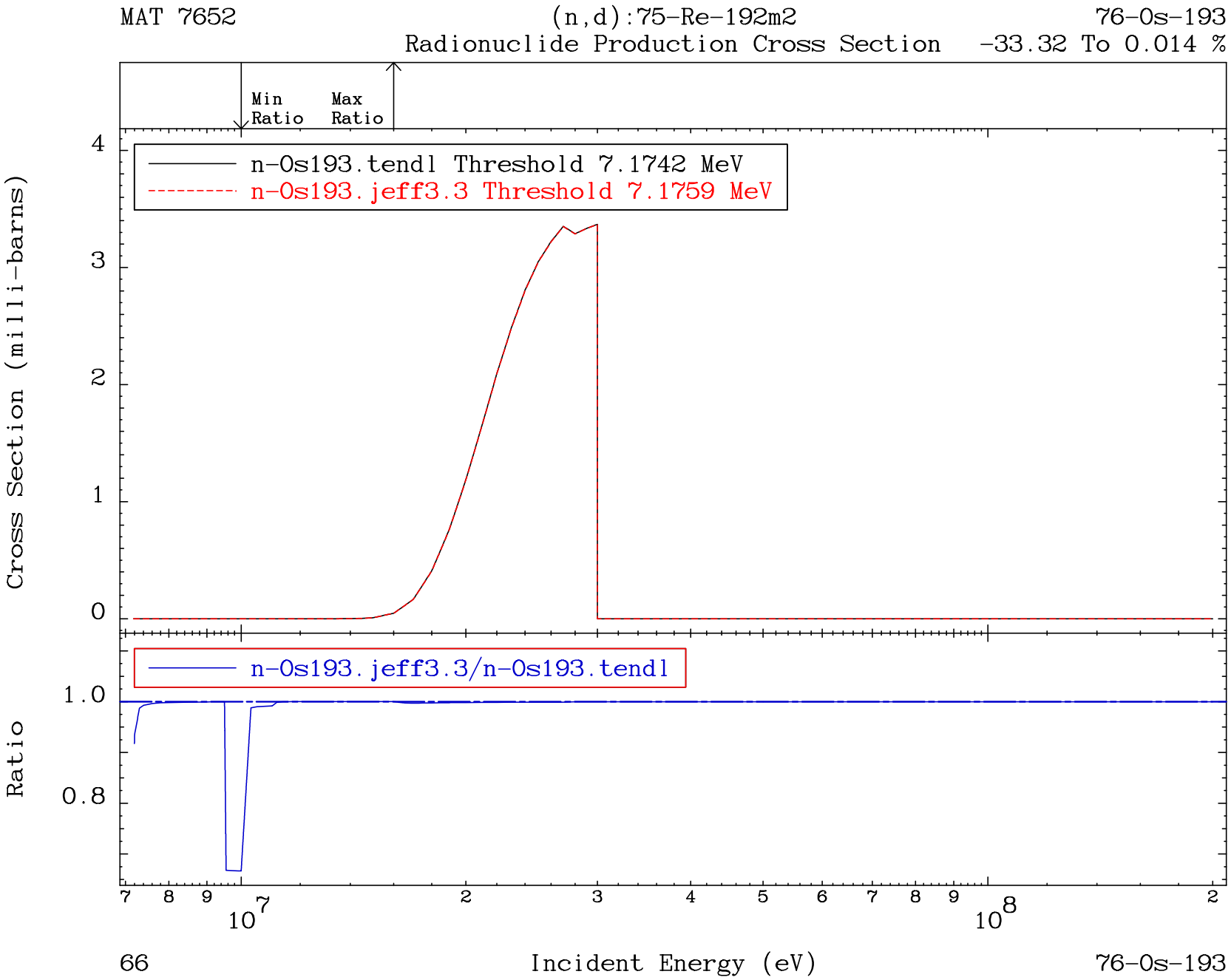

MAT 7652
(n,n') t:75-Re-190m3
76-0s-193
Radionuclide Production Cross Section -18.59 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 12.986 MeV
n-0s193.jeff3.3 Threshold 12.988 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
76-0s-193


MAT 7652
(n,4n):76-0s-190g
76-0s-193
Radionuclide Production Cross Section -14.47 To 0.120 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 18.999 MeV
n-0s193.jeff3.3 Threshold 18.999 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
76-0s-193


MAT 7652
(n,3n) p:75-Re-190g
76-0s-193
Radionuclide Production Cross Section
-2.443 To 0.000 %
Max
Ratio
n-0s193.tendl Threshold 21.301 MeV
n-0s193.jeff3.3 Threshold 21.303 MeV
Cross Section (micro-barns)
80
60
40
20
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.99
0.98
20
40
60
80
100
120
140
160
180
200
63
Incident Energy (MeV)
76-0s-193


MAT 7652
(n,3n) p:75-Re-190m3
76-0s-193
Radionuclide Production Cross Section -1.733 To 0.000 %
Max
Ratio
n-0s193.tendl Threshold 21.512 MeV
n-0s193.jeff3.3 Threshold 21.515 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.00
0.99
0.98
20
40
60
80
100
120
140
160
180
200
64
Incident Energy (MeV)
76-0s-193


MAT 7652
(n,d):75-Re-192g
76-0s-193
Radionuclide Production Cross Section
-0.831 To 0.000 %
Min Ratio
Max Ratio
n-0s193.tendl Threshold 9.5000 MeV
n-0s193.jeff3.3 Threshold 9.5000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-0s193.jeff3.3/n-0s193.tendl
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
76-0s-193


MAT 7652
(n,d):75-Re-192m2
76-Os-193
Radionuclide Production Cross Section
-33.32 To 0.014 %
Min Ratio
Max Ratio
n-Os193.tendl Threshold 7.1742 MeV
n-Os193.jeff3.3 Threshold 7.1759 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Os193.jeff3.3/n-Os193.tendl
Ratio
1.0
0.8
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
76-Os-193