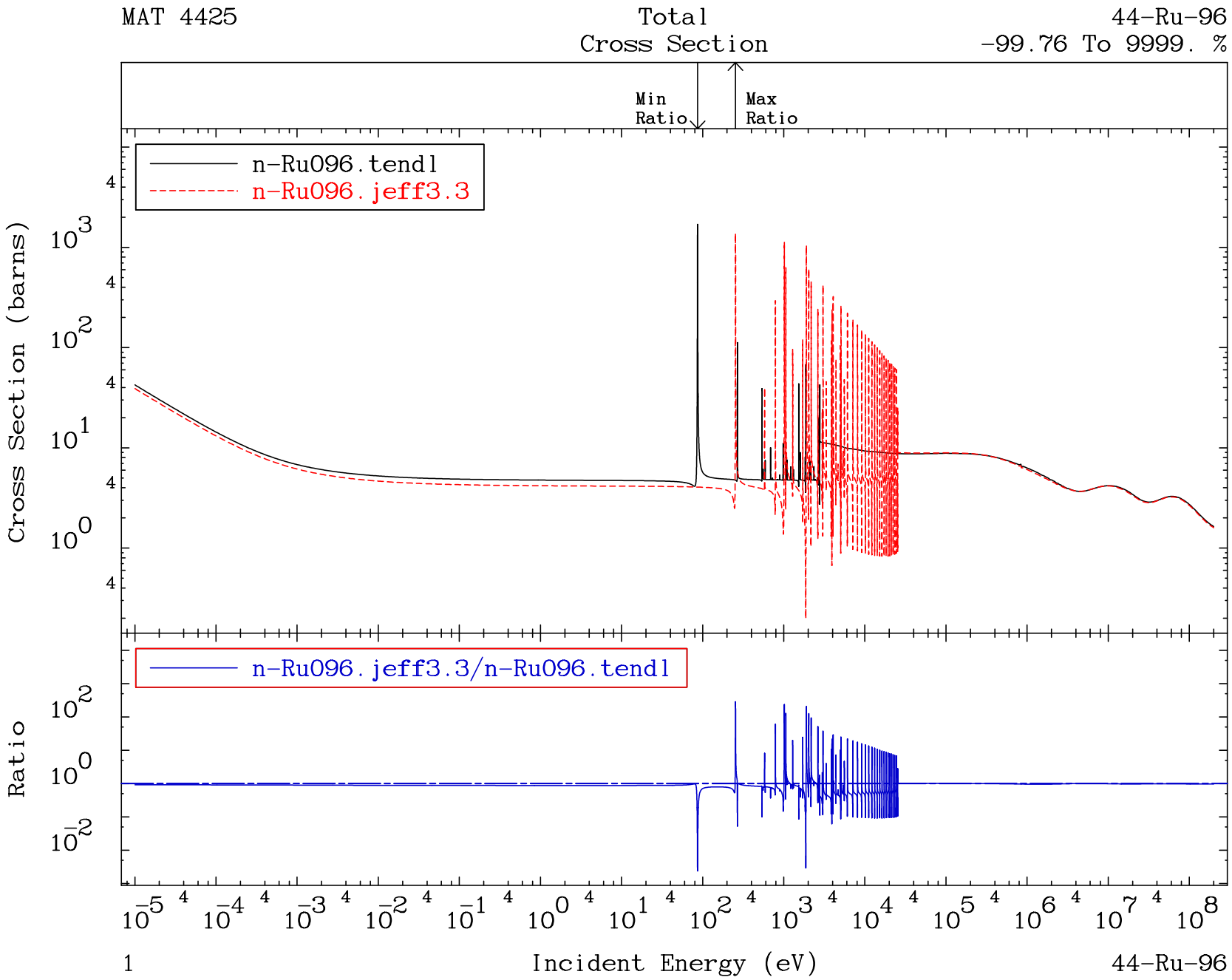
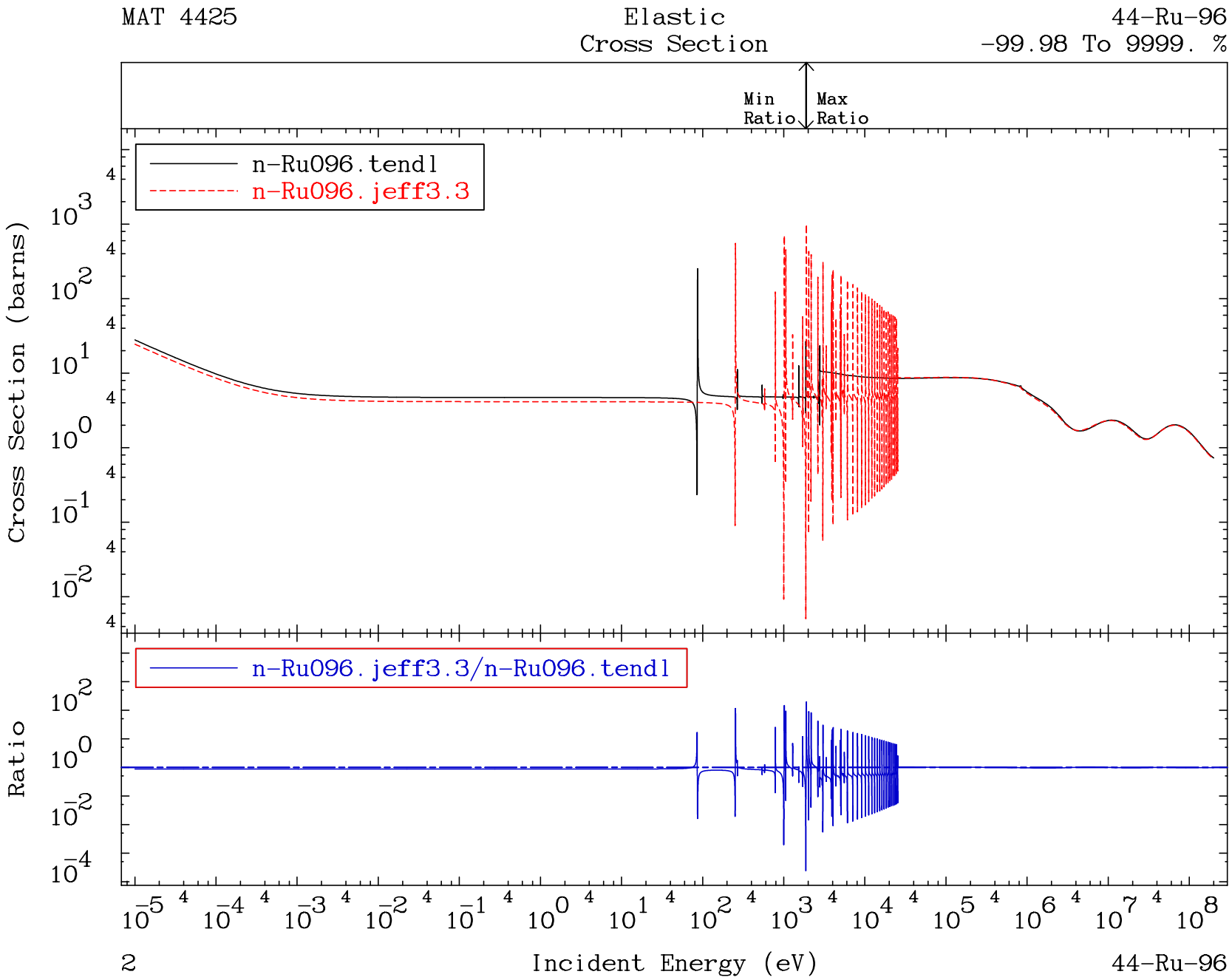
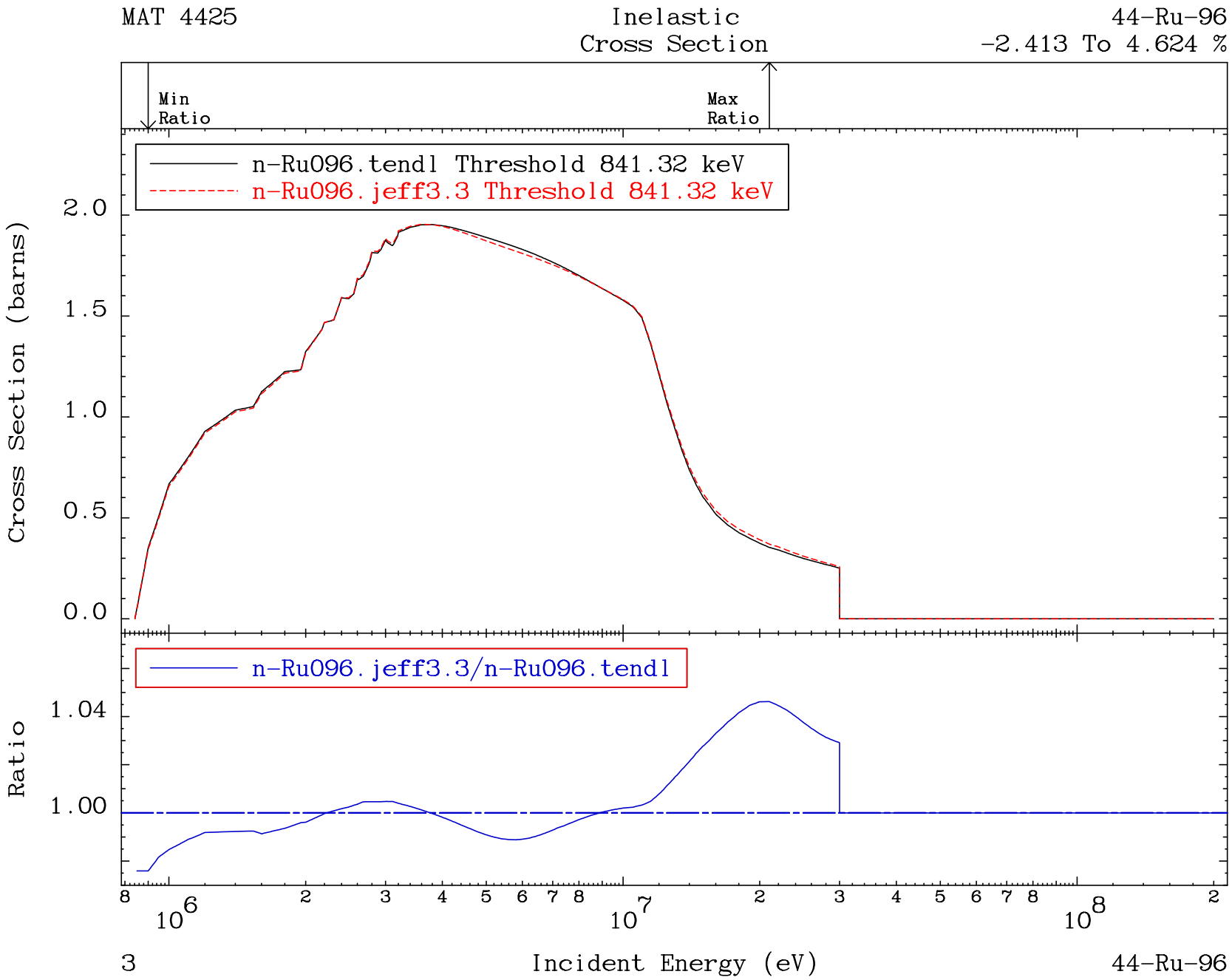
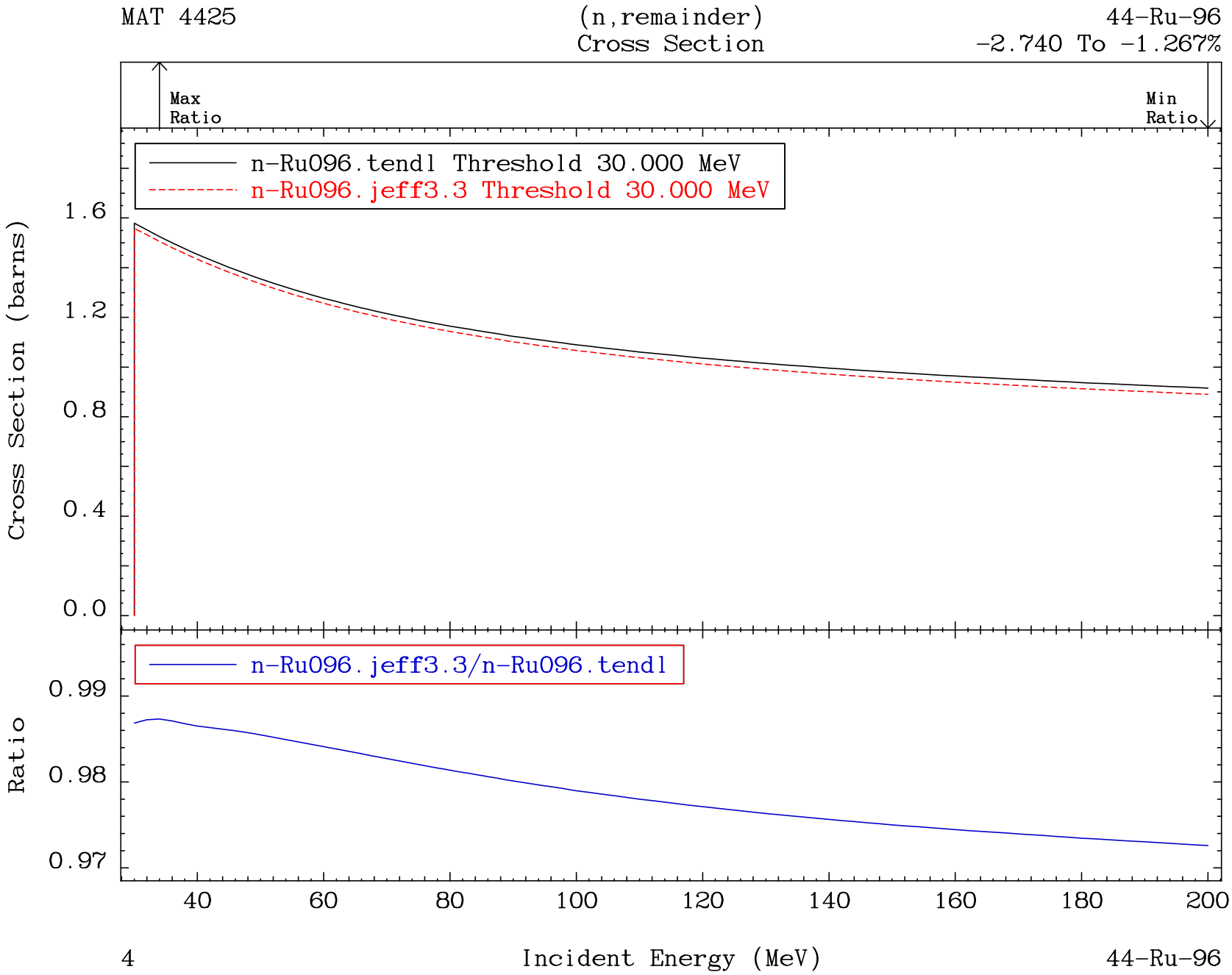
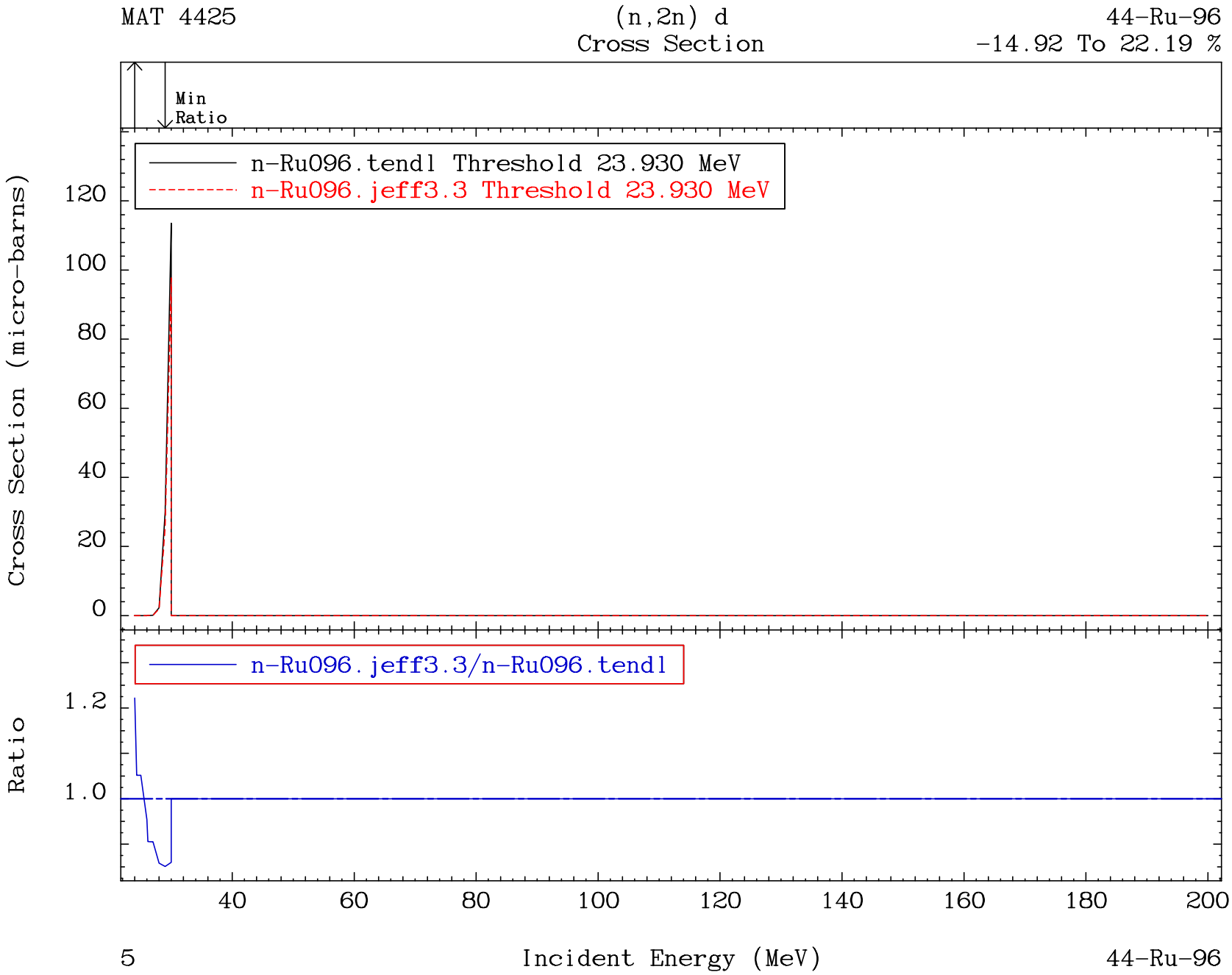
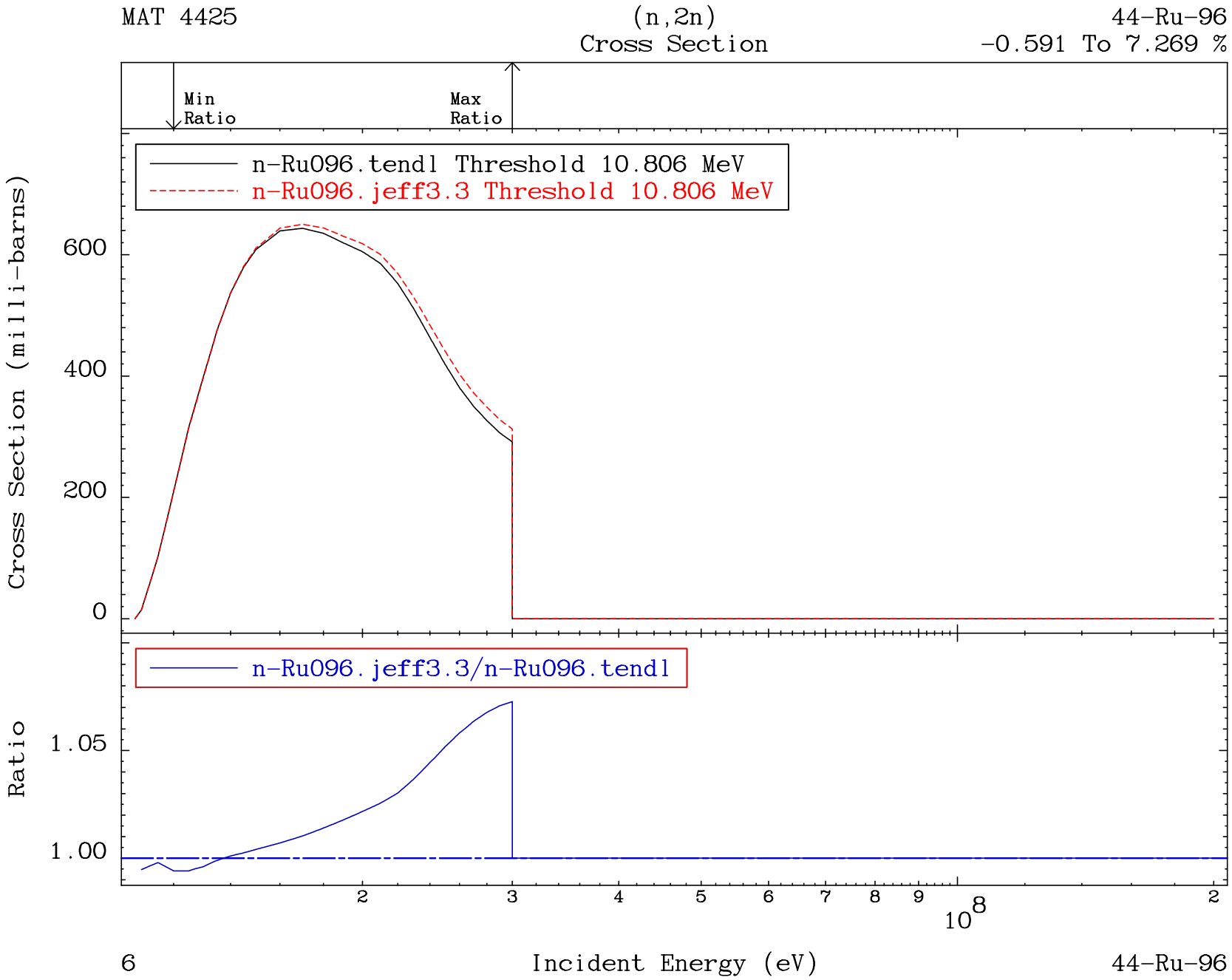

MAT 4425
Total
Cross Section
44-Ru-96
-99.76 To 9999. %
Min
Ratio
Max
Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
1
44-Ru-96

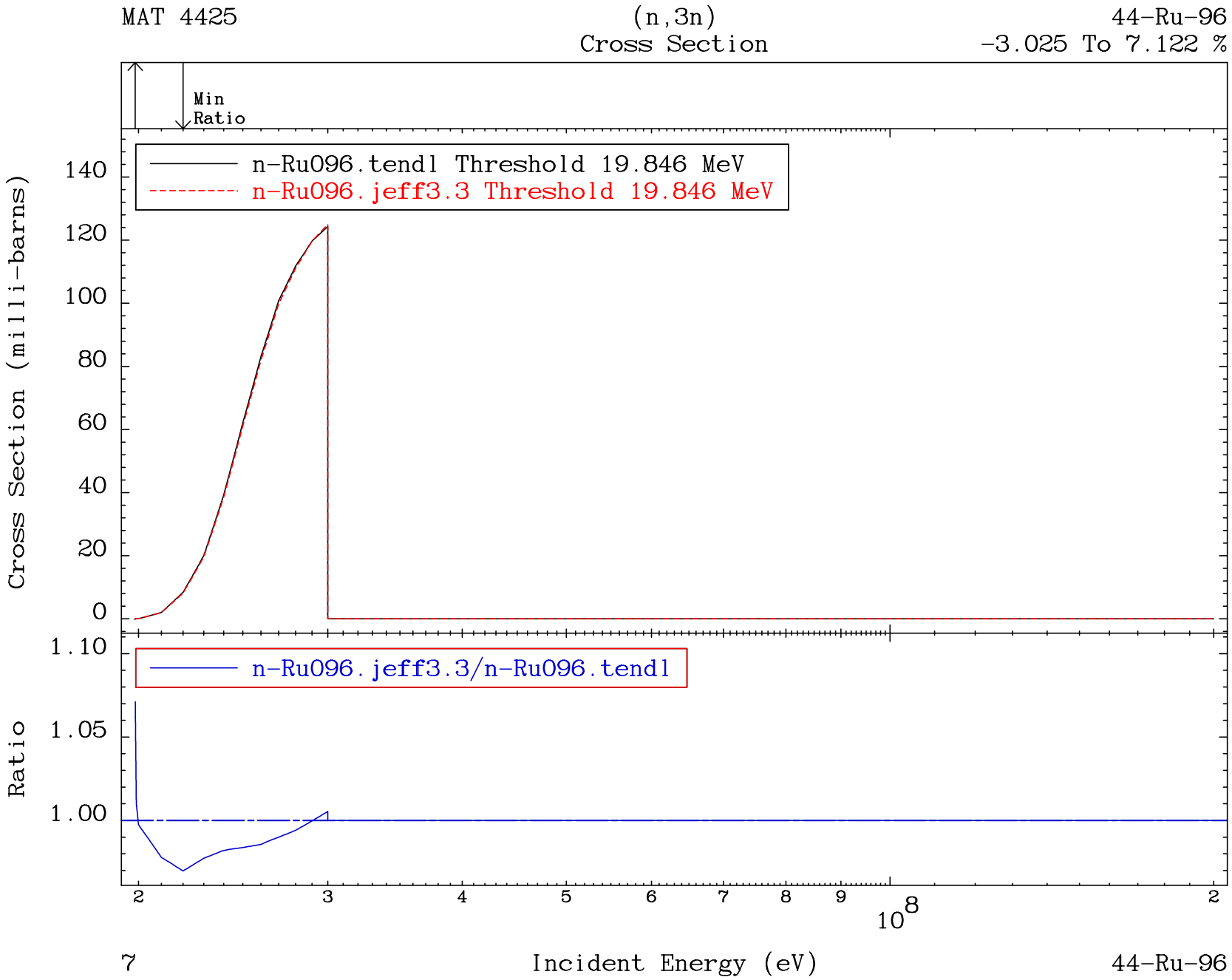

MAT 4425
Elastic
Cross Section
44-Ru-96
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
2
44-Ru-96

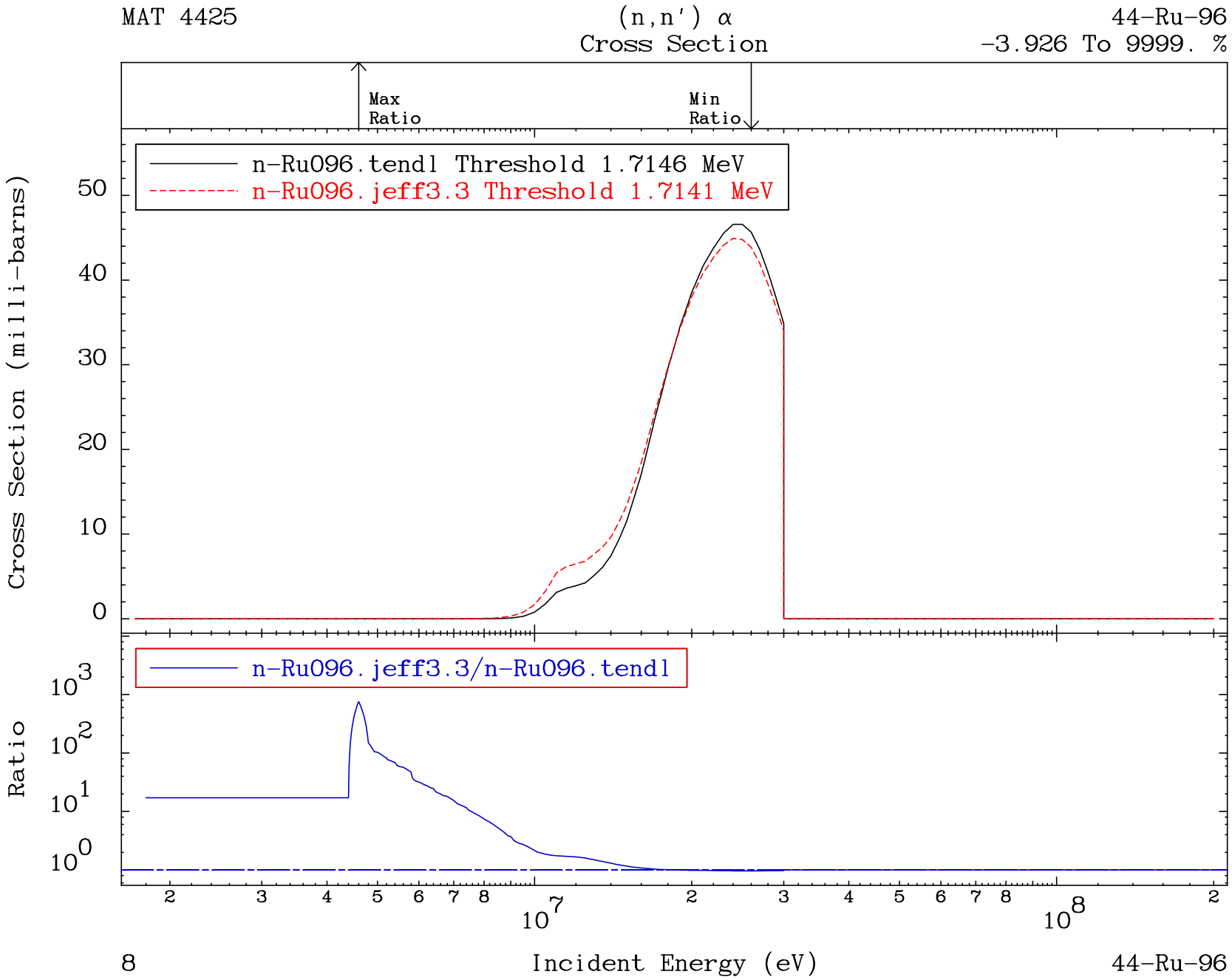

MAT 4425
Inelastic
Cross Section
44-Ru-96
-2.413 To 4.624 %
Min
Ratio
Max
Ratio
n-Ru096.tendl Threshold 841.32 keV
n-Ru096.jeff3.3 Threshold 841.32 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.04
1.00
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
44-Ru-96

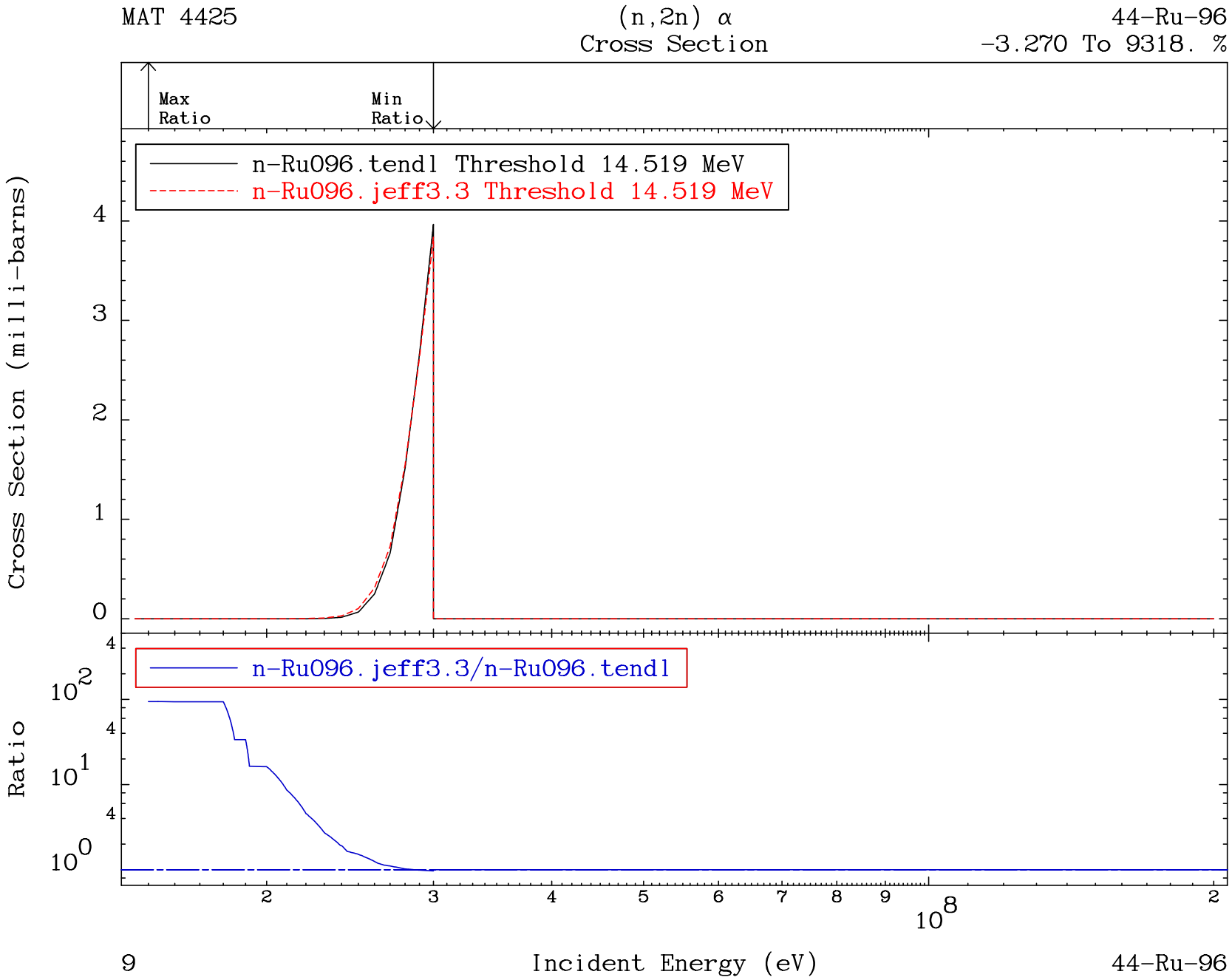

MAT 4425
(n,remainder)
Cross Section
44-Ru-96
-2.740 To -1.267%
Max
Ratio
Min
Ratio
n-Ru096.tendl Threshold 30.000 MeV
n-Ru096.jeff3.3 Threshold 30.000 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
0.99
0.98
0.97
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
44-Ru-96

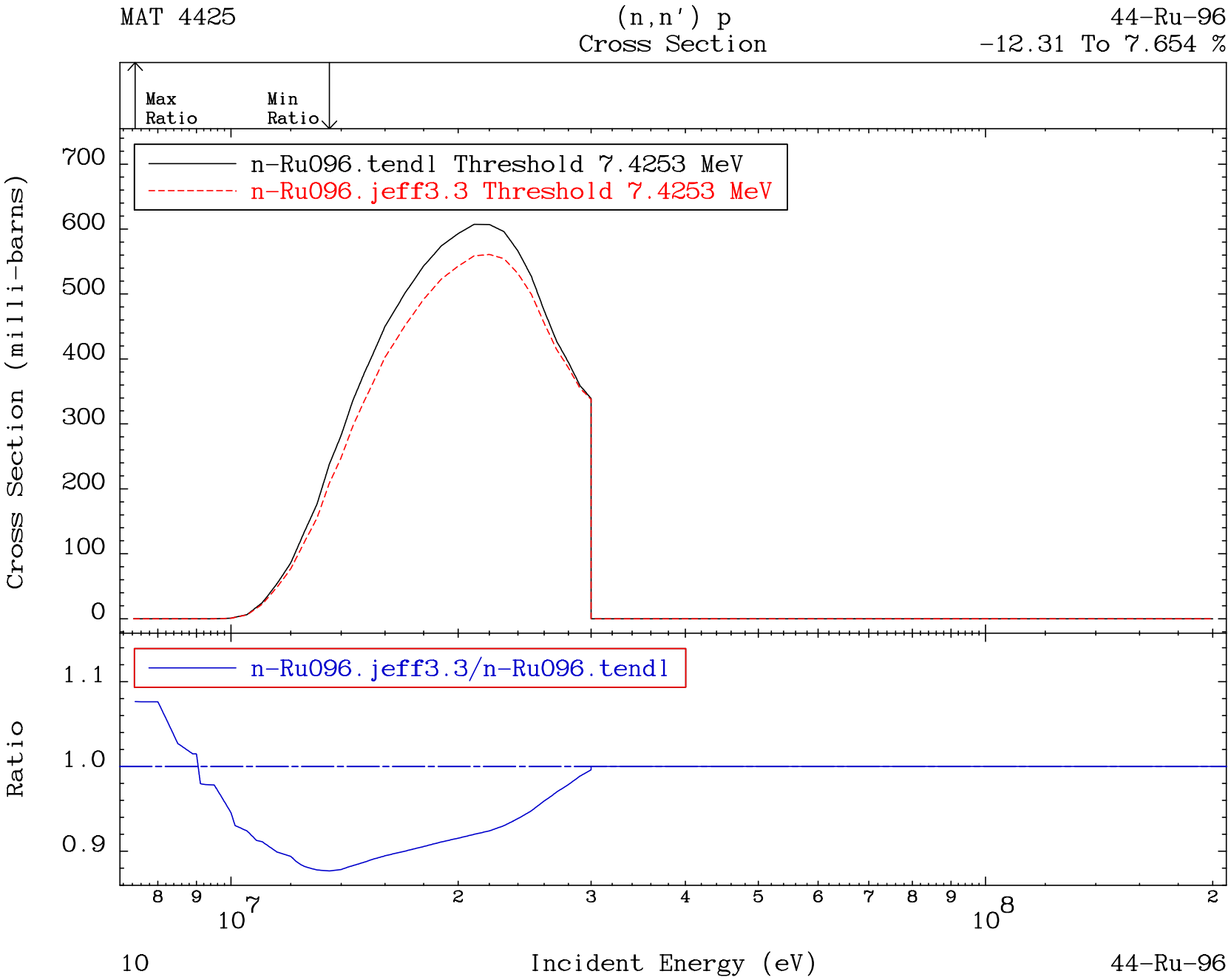

MAT 4425
(n,2n) d
Cross Section
44-Ru-96
-14.92 To 22.19 %
Min
Ratio
n-Ru096.tendl Threshold 23.930 MeV
n-Ru096.jeff3.3 Threshold 23.930 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.0
40
60
80
100
120
140
160
180
200
5
Incident Energy (MeV)
44-Ru-96

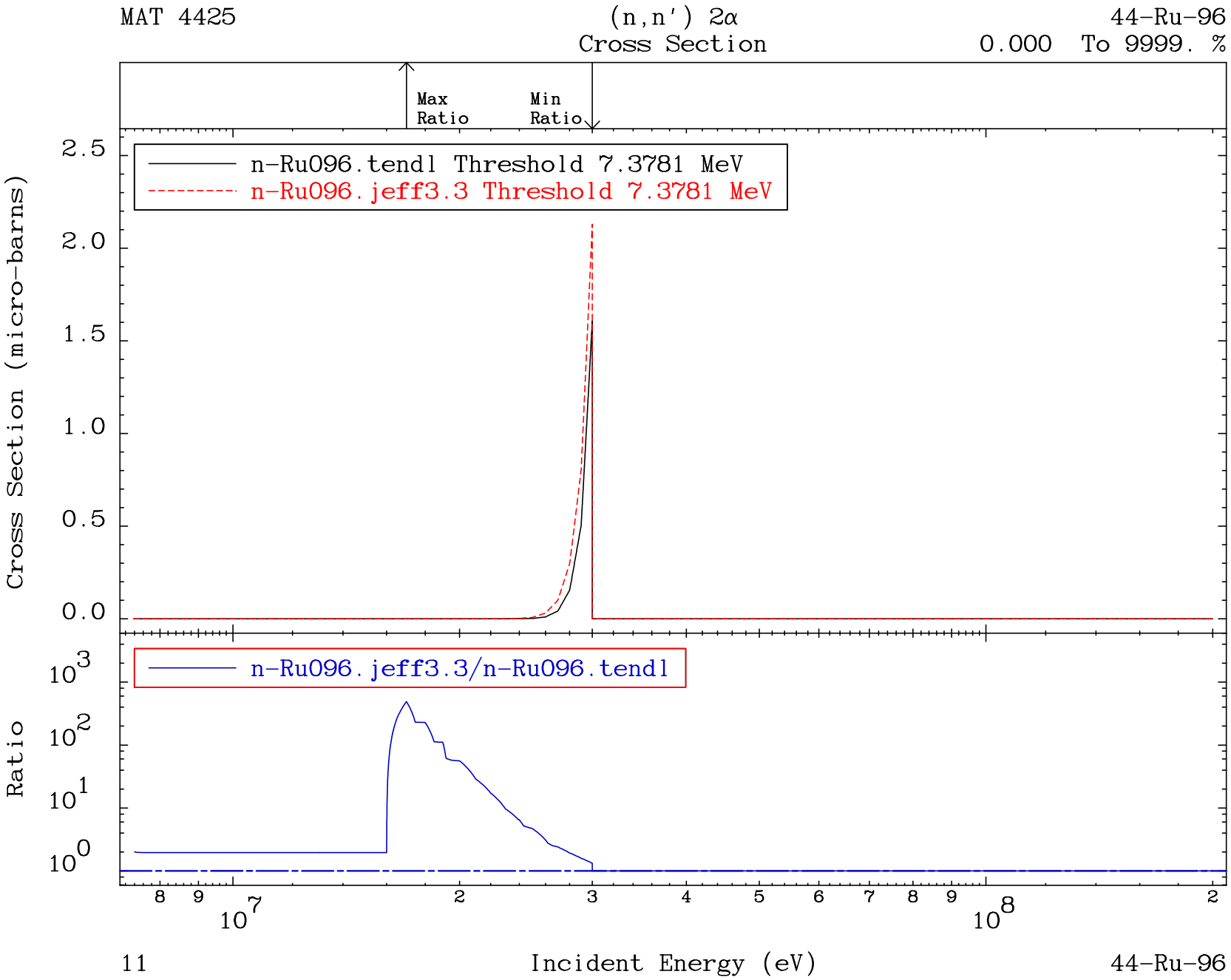

MAT 4425
(n,2n)
Cross Section
44-Ru-96
-0.591 To 7.269 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 10.806 MeV
n-Ru096.jeff3.3 Threshold 10.806 MeV
Cross Section (milli-barns)
600
400
200
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
44-Ru-96

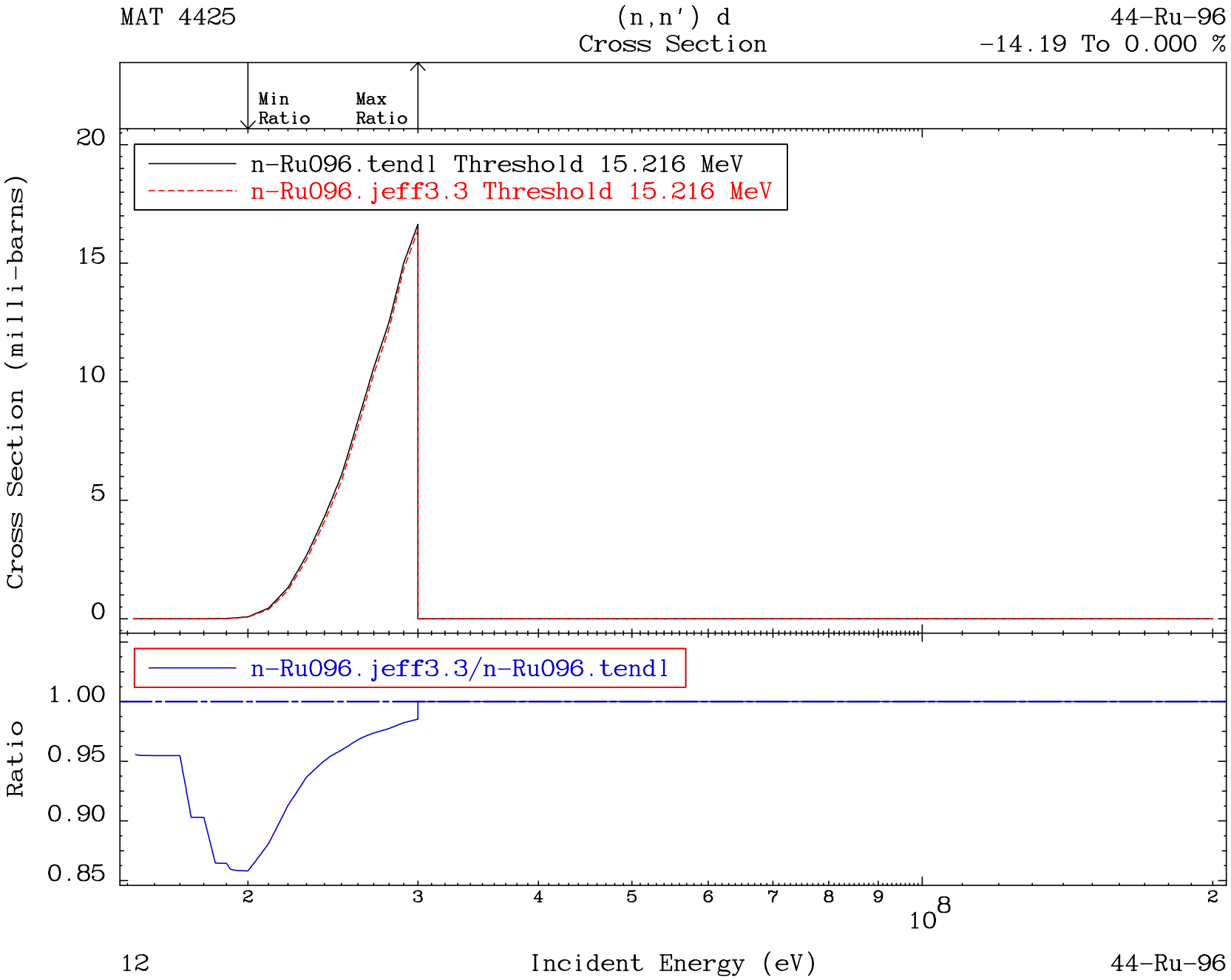

MAT 4425
(n,3n)
Cross Section
44-Ru-96
-3.025 To 7.122 %
Min
Ratio
n-Ru096.tendl Threshold 19.846 MeV
n-Ru096.jeff3.3 Threshold 19.846 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
2
10^8
7
Incident Energy (eV)
44-Ru-96

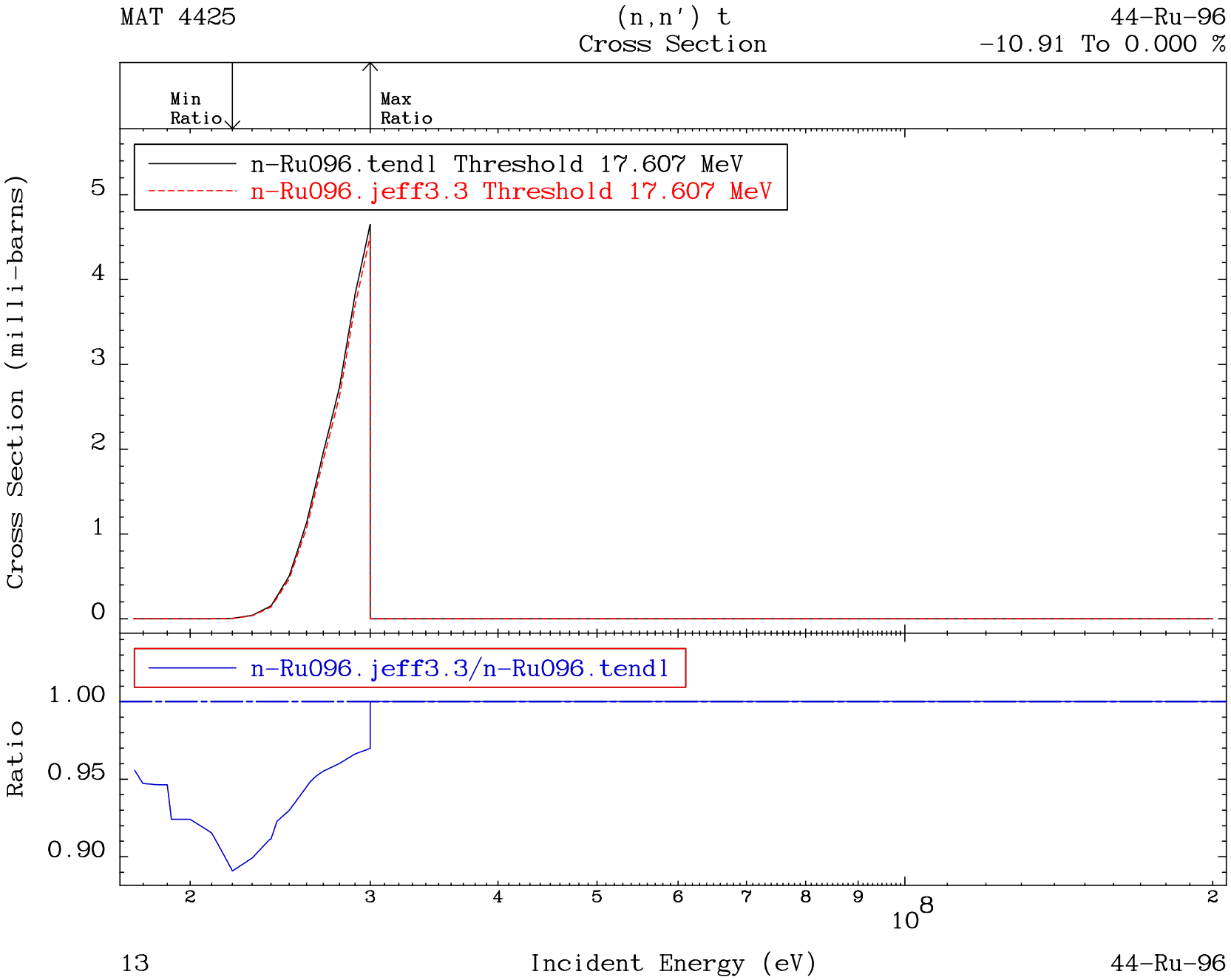

MAT 4425
(n,n') α
Cross Section
44-Ru-96
-3.926 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 1.7146 MeV
n-Ru096.jeff3.3 Threshold 1.7141 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
44-Ru-96

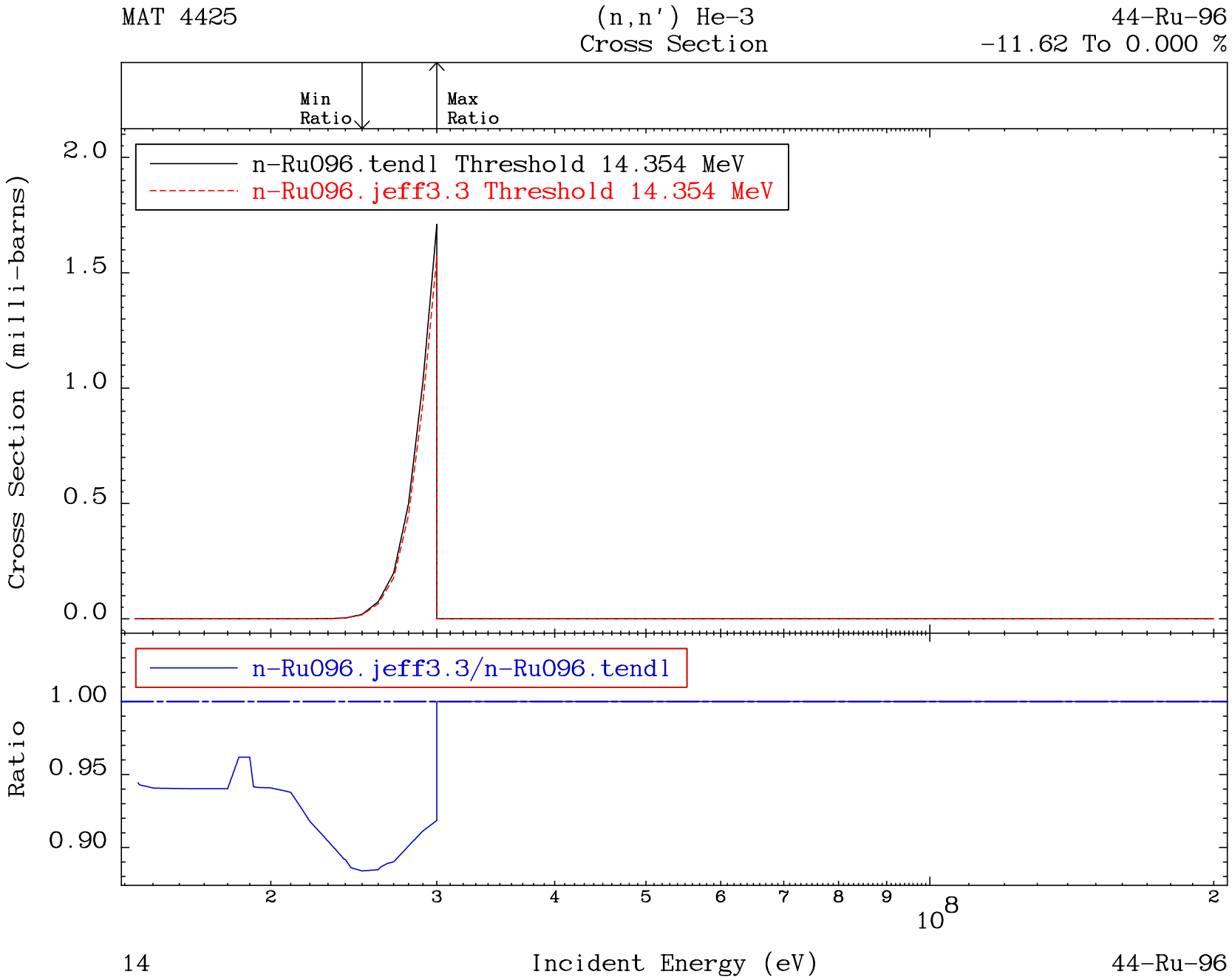

MAT 4425
(n,2n) α
Cross Section
44-Ru-96
-3.270 To 9318. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 14.519 MeV
n-Ru096.jeff3.3 Threshold 14.519 MeV
Cross Section (milli-barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
9
44-Ru-96

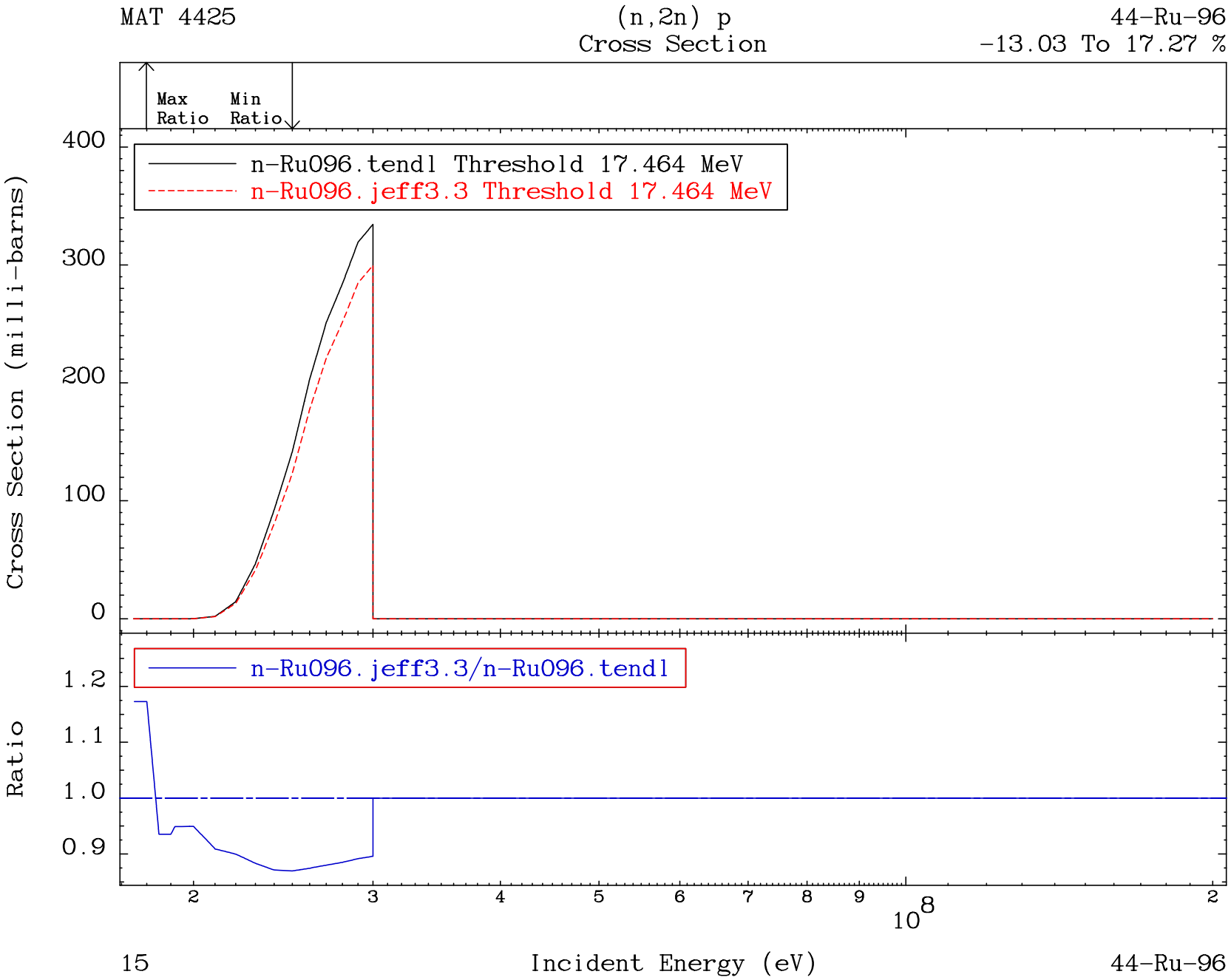

MAT 4425
(n,n') p
Cross Section
44-Ru-96
-12.31 To 7.654 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 7.4253 MeV
n-Ru096.jeff3.3 Threshold 7.4253 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
44-Ru-96

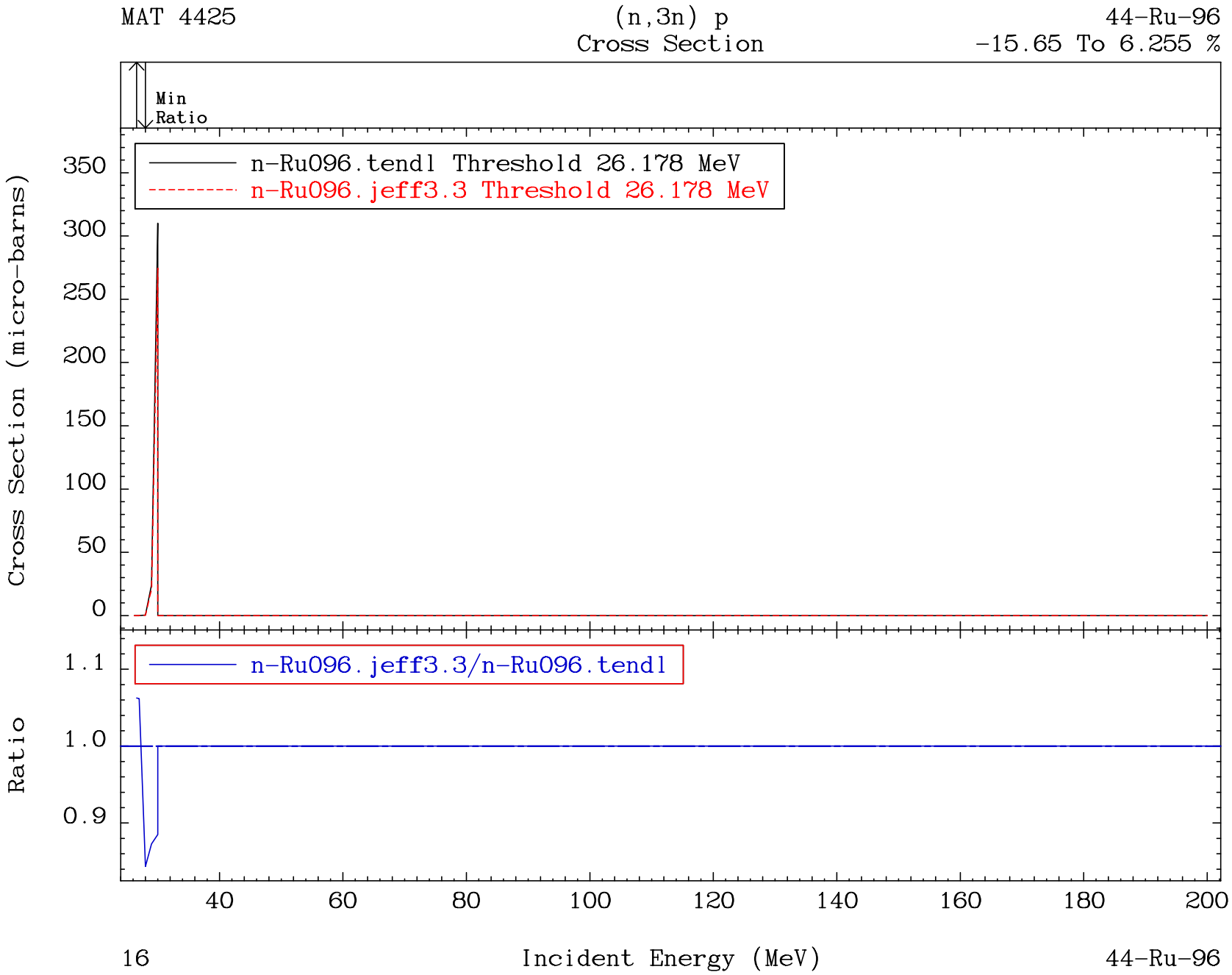

MAT 4425
(n,n') 2α
Cross Section
44-Ru-96
0.000 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 7.3781 MeV
n-Ru096.jeff3.3 Threshold 7.3781 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^3
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
44-Ru-96

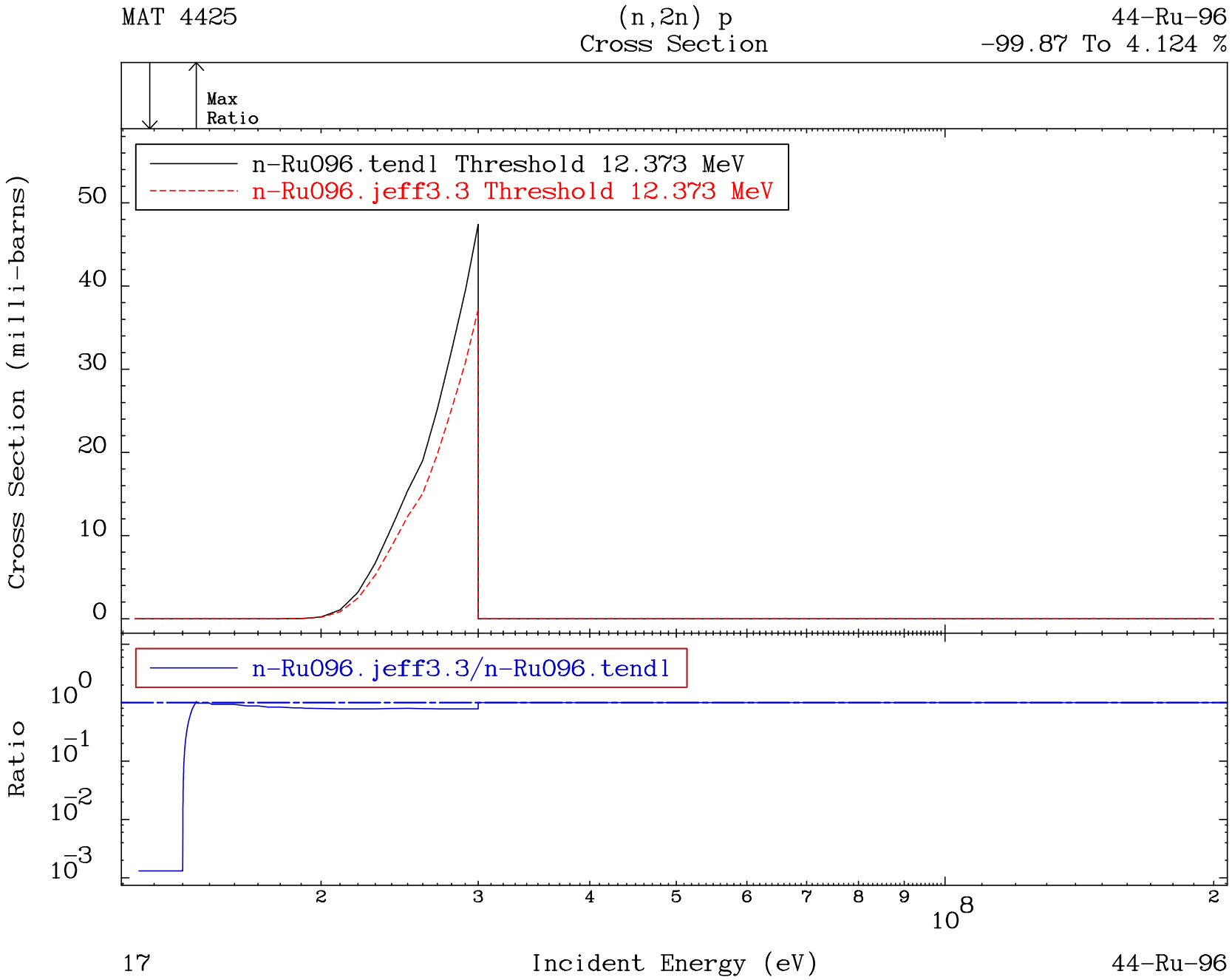

MAT 4425
(n,n') d
Cross Section
44-Ru-96
-14.19 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 15.216 MeV
n-Ru096.jeff3.3 Threshold 15.216 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
44-Ru-96

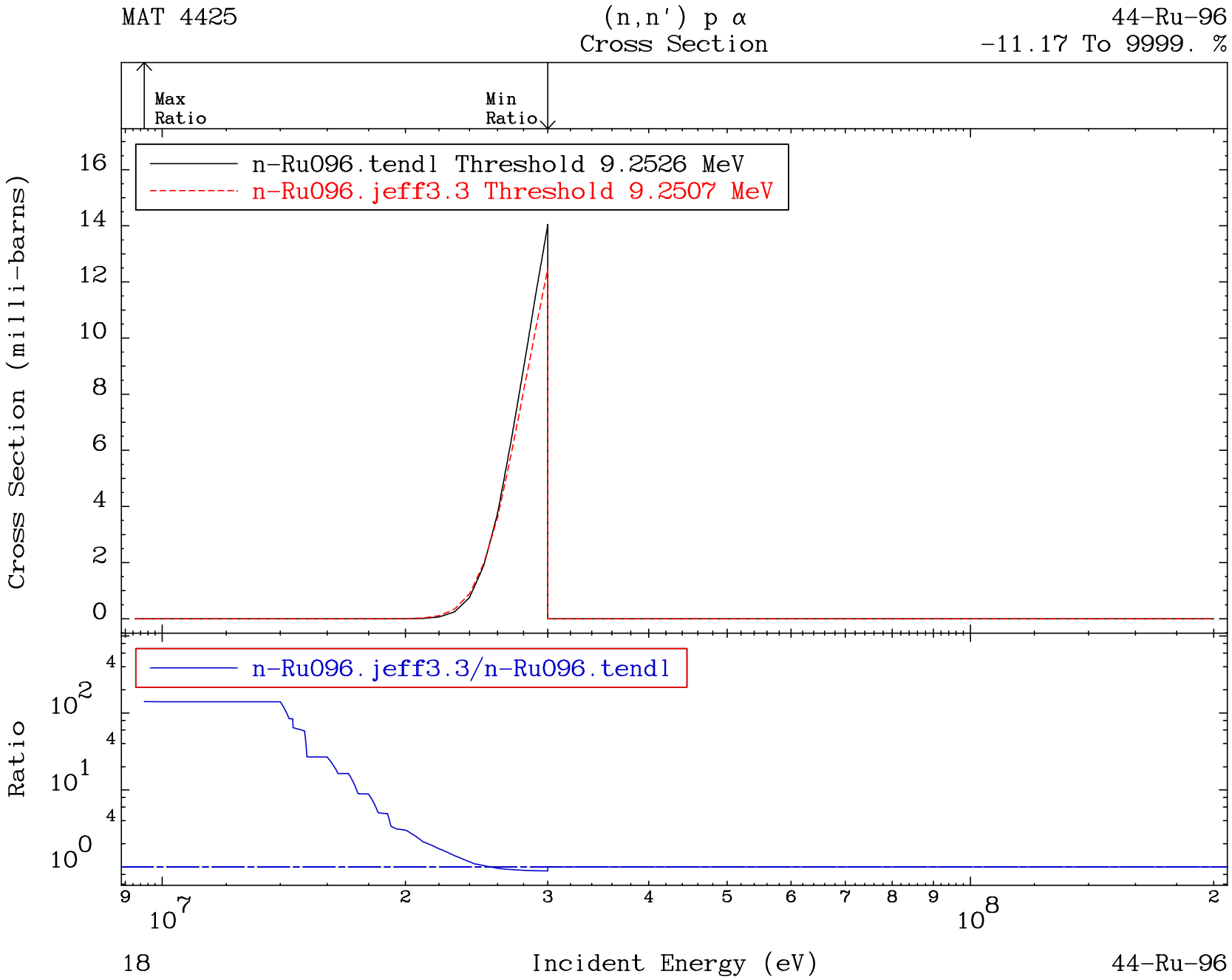

MAT 4425
(n,n') t
Cross Section
44-Ru-96
-10.91 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 17.607 MeV
n-Ru096.jeff3.3 Threshold 17.607 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
44-Ru-96

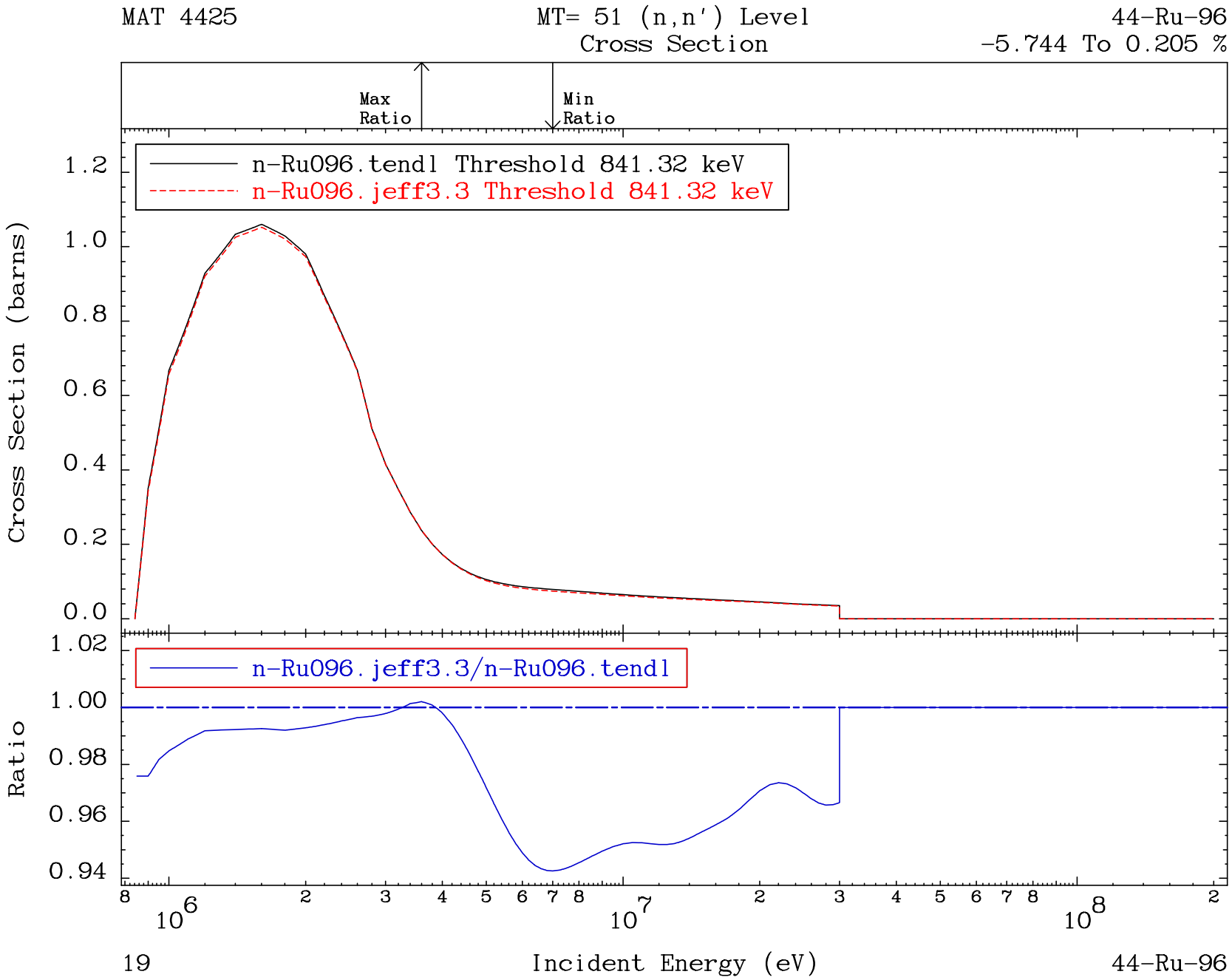

MAT 4425
(n,n') He-3
Cross Section
44-Ru-96
-11.62 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 14.354 MeV
n-Ru096.jeff3.3 Threshold 14.354 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
44-Ru-96

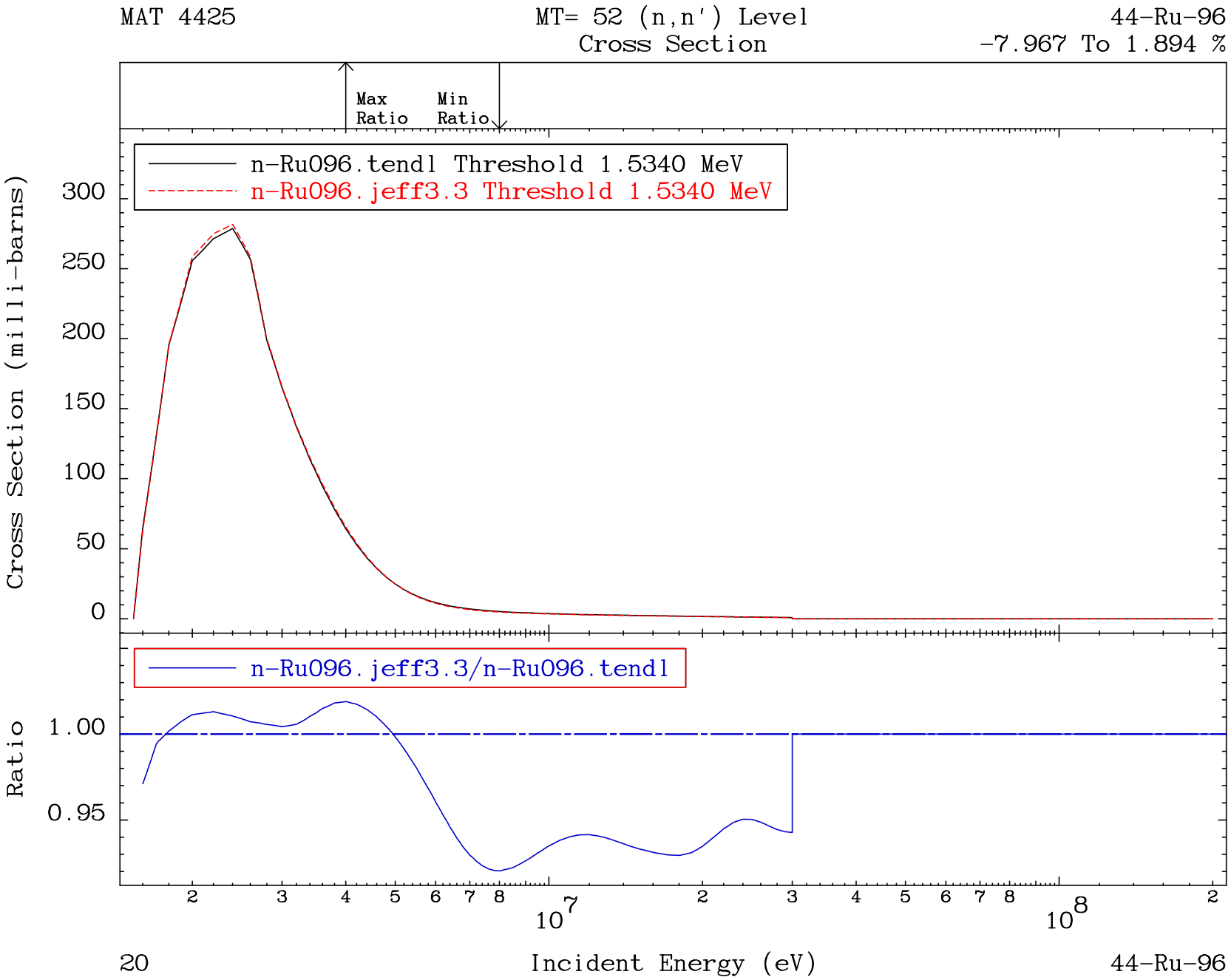

MAT 4425
(n,2n) p
Cross Section
44-Ru-96
-13.03 To 17.27 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 17.464 MeV
n-Ru096.jeff3.3 Threshold 17.464 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
44-Ru-96

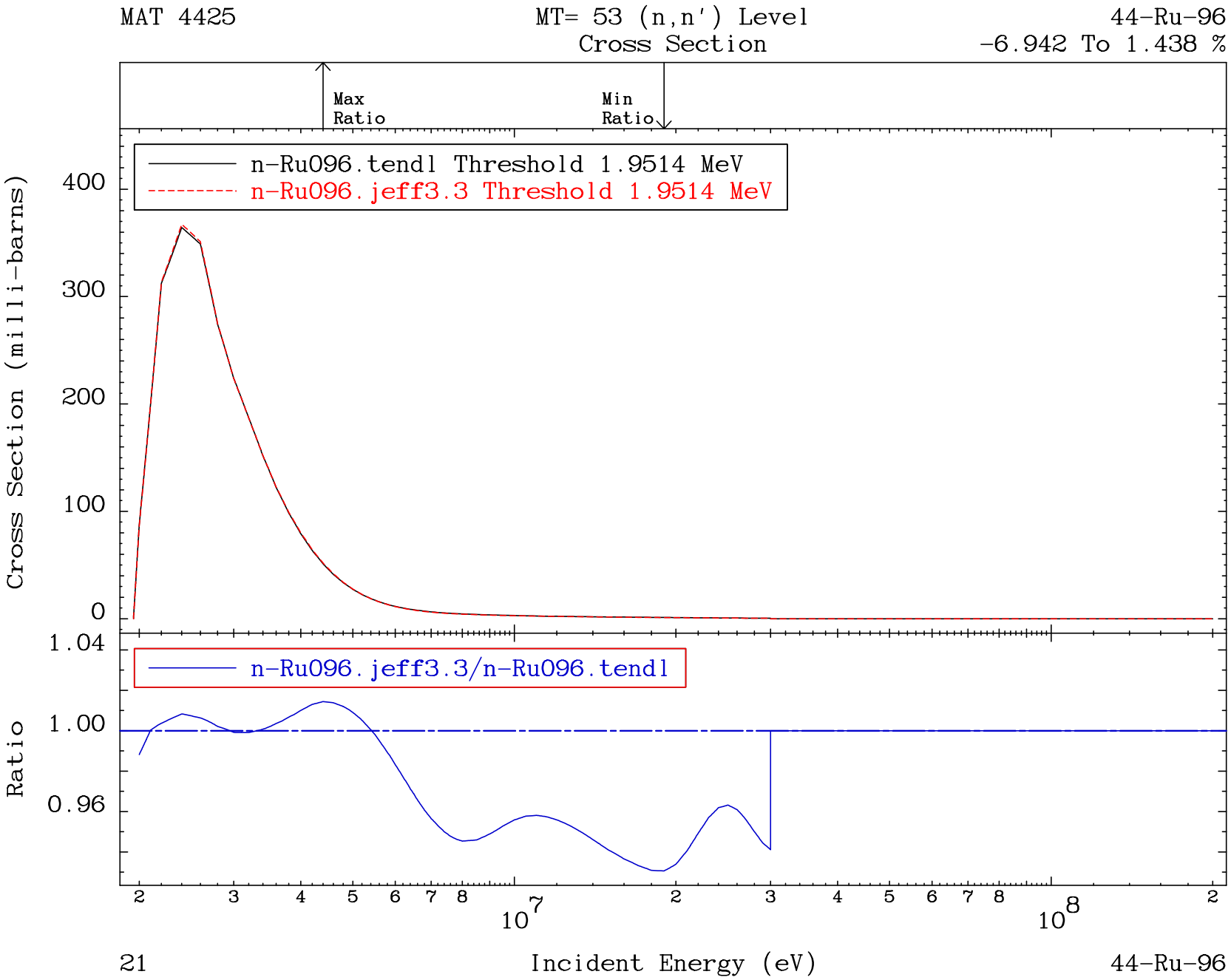

MAT 4425
(n,3n) p
Cross Section
44-Ru-96
-15.65 To 6.255 %
Min
Ratio
n-Ru096.tendl Threshold 26.178 MeV
n-Ru096.jeff3.3 Threshold 26.178 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
44-Ru-96

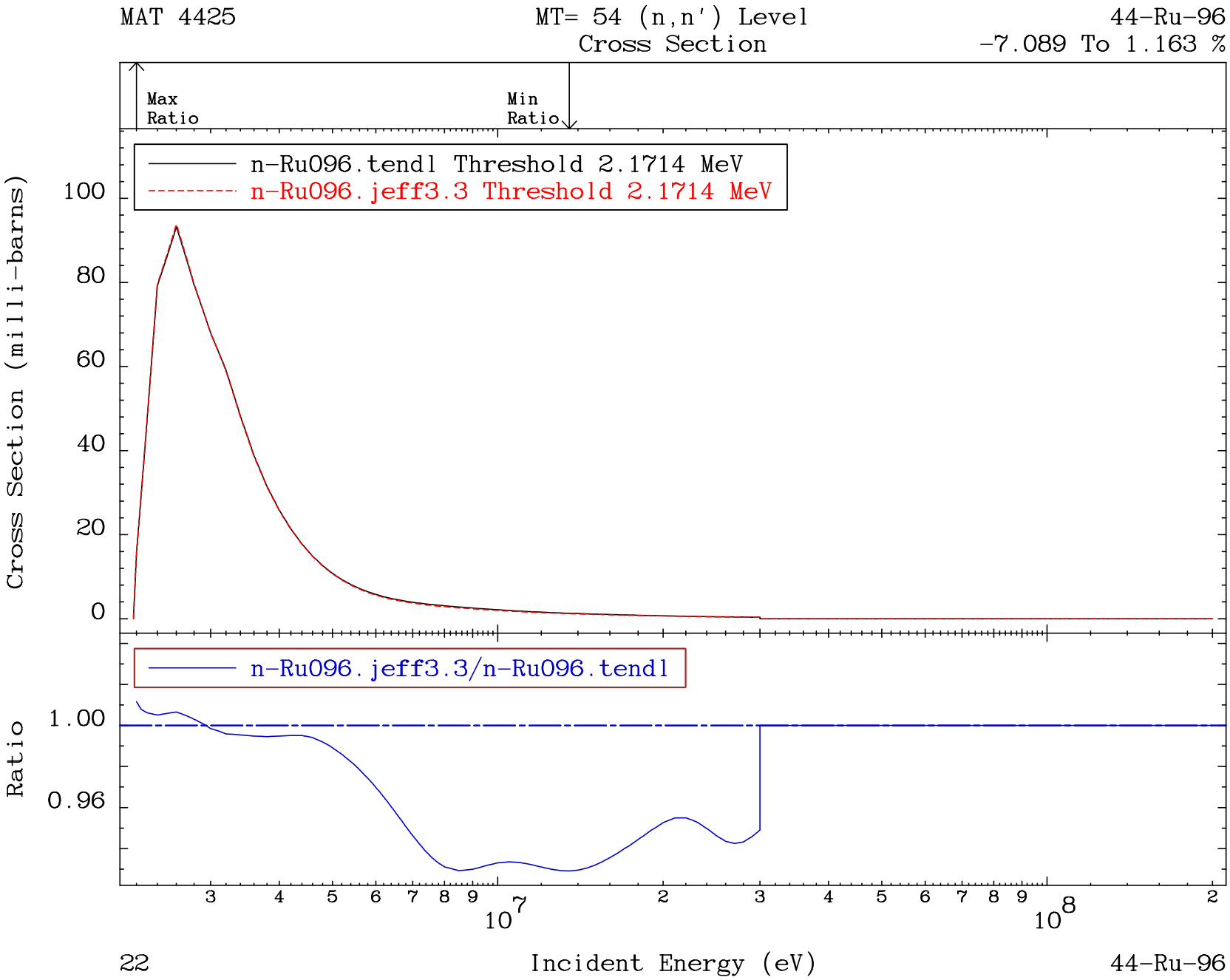

MAT 4425
(n,2n) p
Cross Section
44-Ru-96
-99.87 To 4.124 %
Max
Ratio
n-Ru096.tendl Threshold 12.373 MeV
n-Ru096.jeff3.3 Threshold 12.373 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^0
10^-1
10^-2
10^-3
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
44-Ru-96

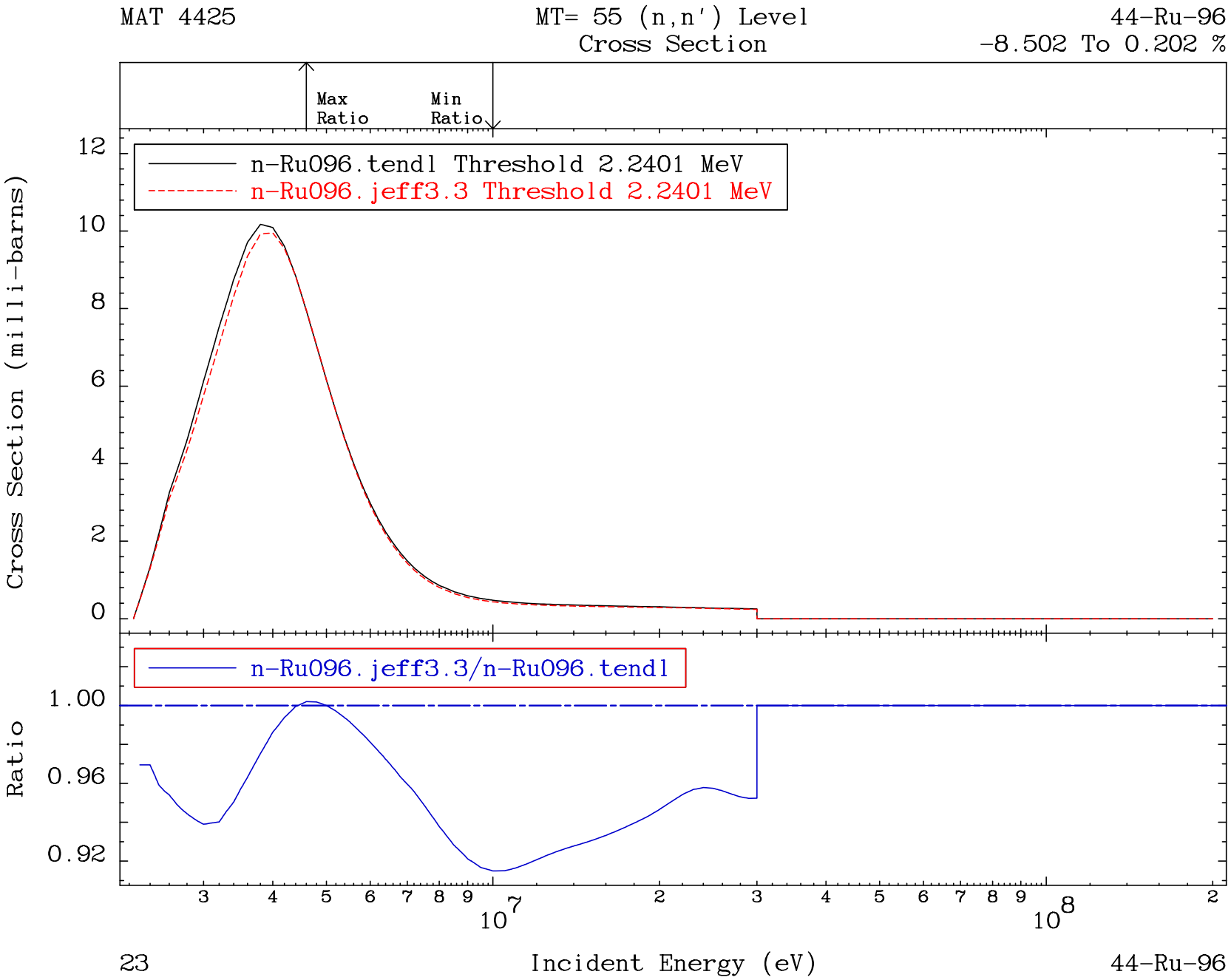

MAT 4425
(n,n') p α
Cross Section
44-Ru-96
-11.17 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 9.2526 MeV
n-Ru096.jeff3.3 Threshold 9.2507 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^0
10^1
10^2
9
2
3
4
5
6
7
8
9
10^7
10^8
2
18
Incident Energy (eV)
44-Ru-96

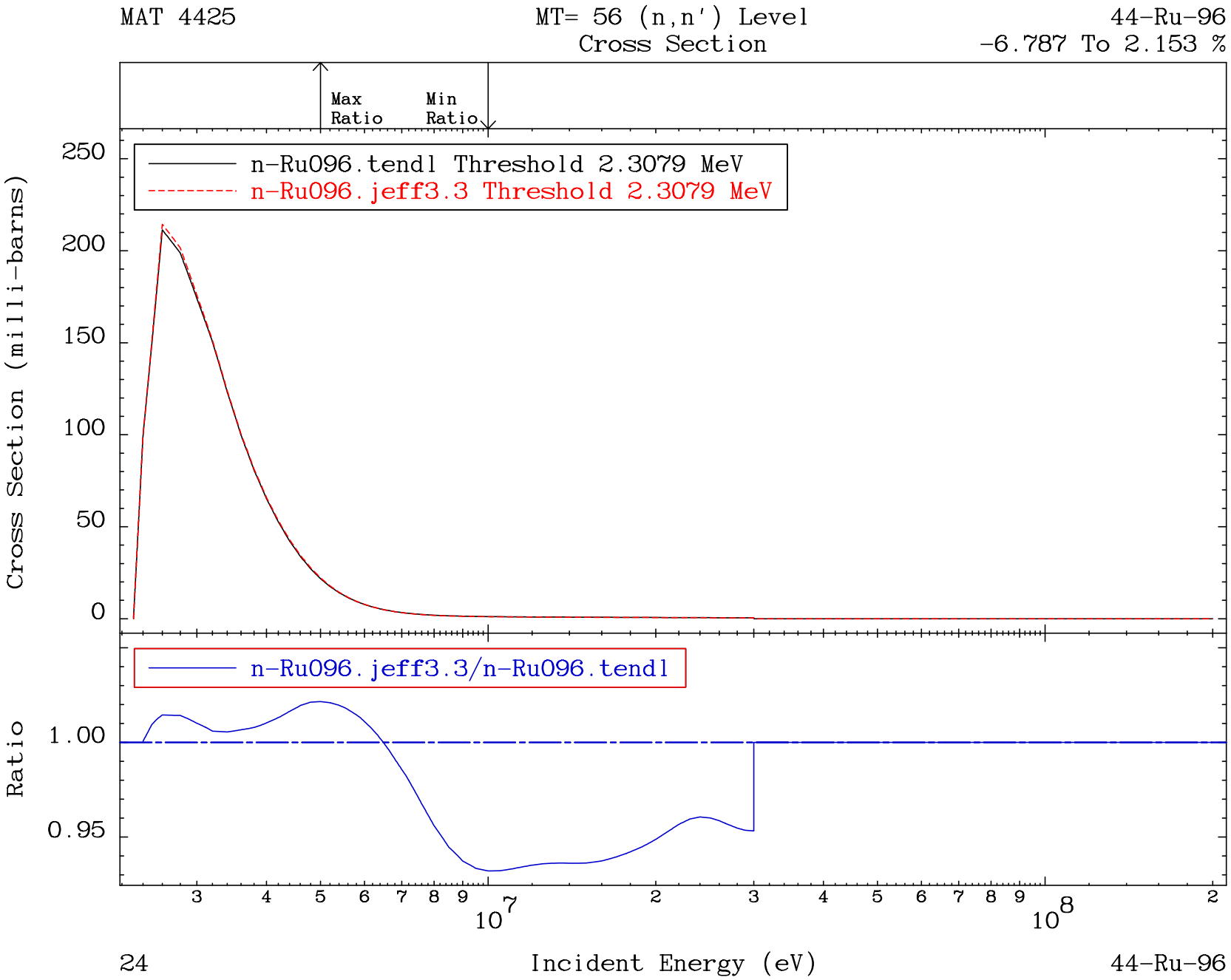

MAT 4425
MT= 51 (n,n') Level
Cross Section
44-Ru-96
-5.744 To 0.205 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 841.32 keV
n-Ru096.jeff3.3 Threshold 841.32 keV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.02
1.00
0.98
0.96
0.94
8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
44-Ru-96

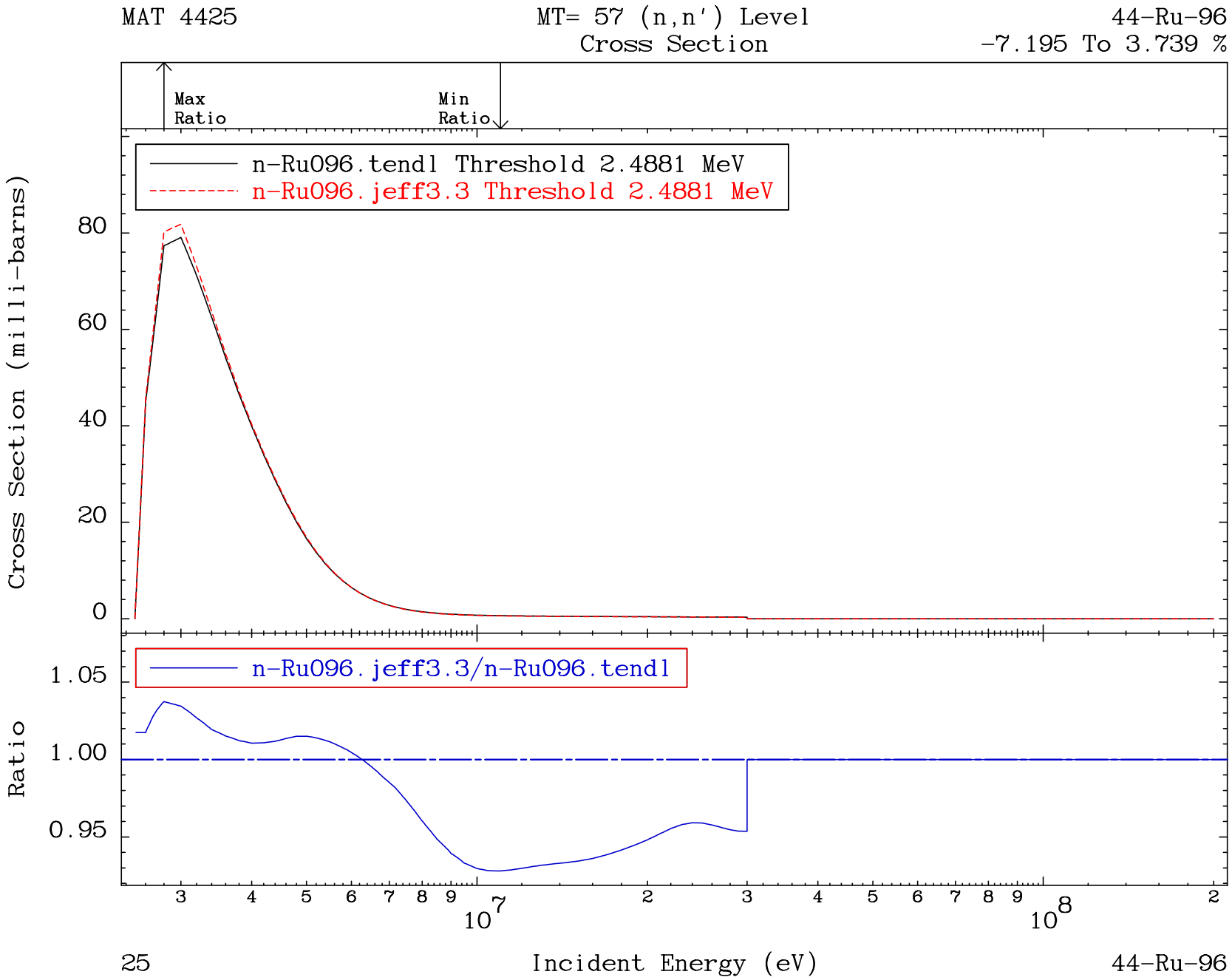

MAT 4425
MT= 52 (n,n') Level
Cross Section
44-Ru-96
-7.967 To 1.894 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 1.5340 MeV
n-Ru096.jeff3.3 Threshold 1.5340 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
44-Ru-96

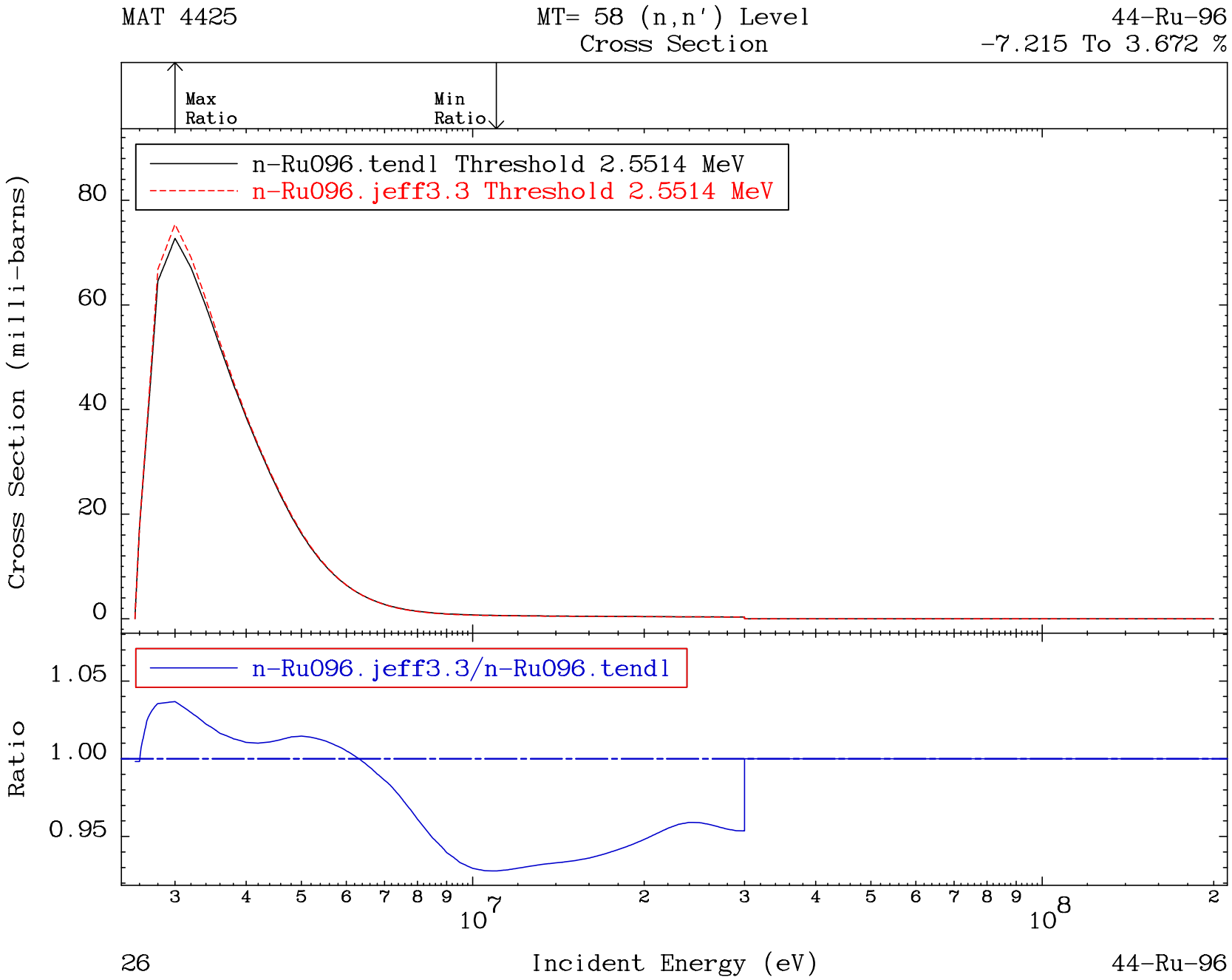

MAT 4425
MT= 53 (n,n') Level
Cross Section
44-Ru-96
-6.942 To 1.438 %
Max
Ratio
Min
Ratio
n-Ru096.tendl Threshold 1.9514 MeV
n-Ru096.jeff3.3 Threshold 1.9514 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.04
1.00
0.96
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
21
Incident Energy (eV)
44-Ru-96

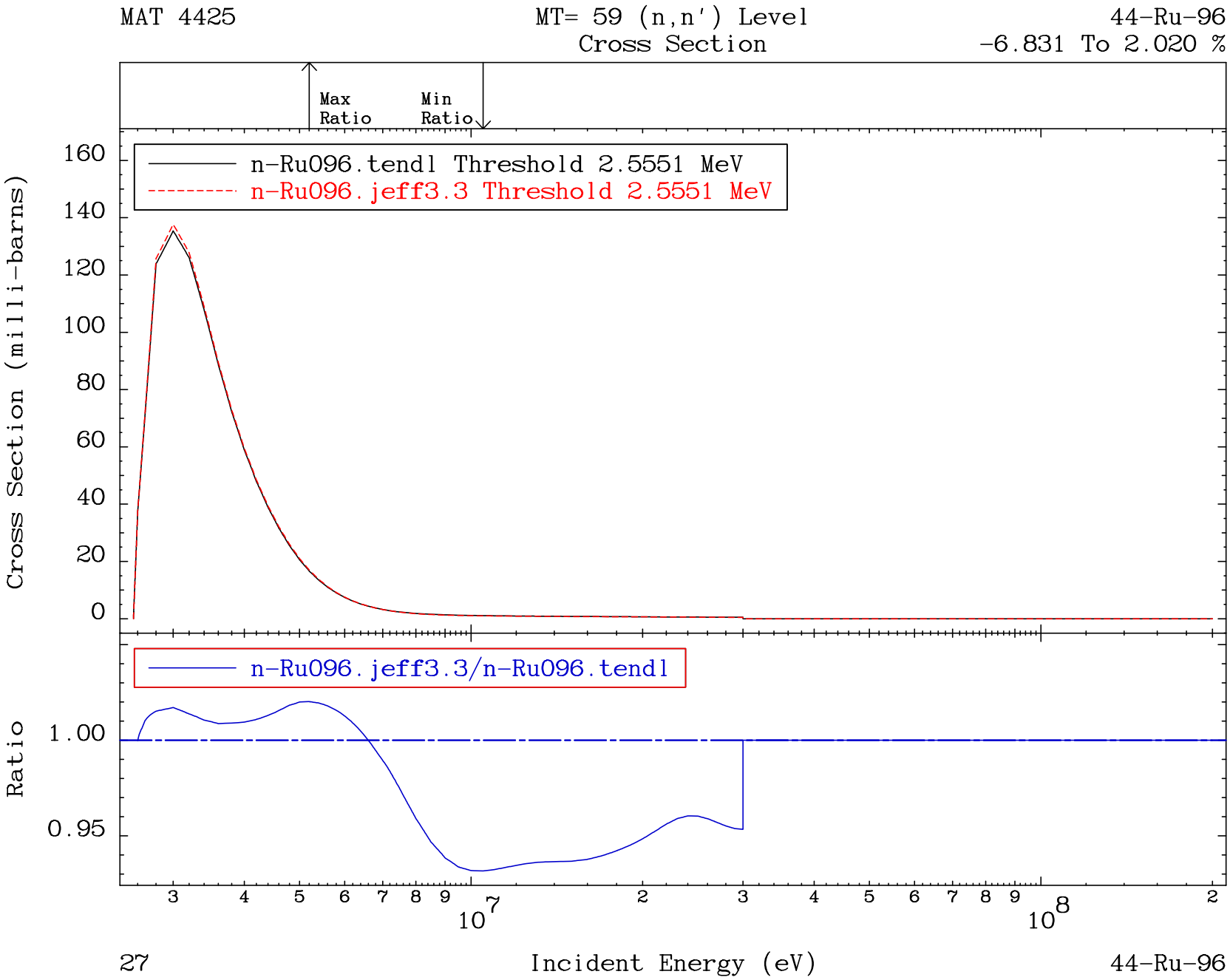

MAT 4425
MT= 54 (n,n') Level
Cross Section
44-Ru-96
-7.089 To 1.163 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.1714 MeV
n-Ru096.jeff3.3 Threshold 2.1714 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.96
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
44-Ru-96

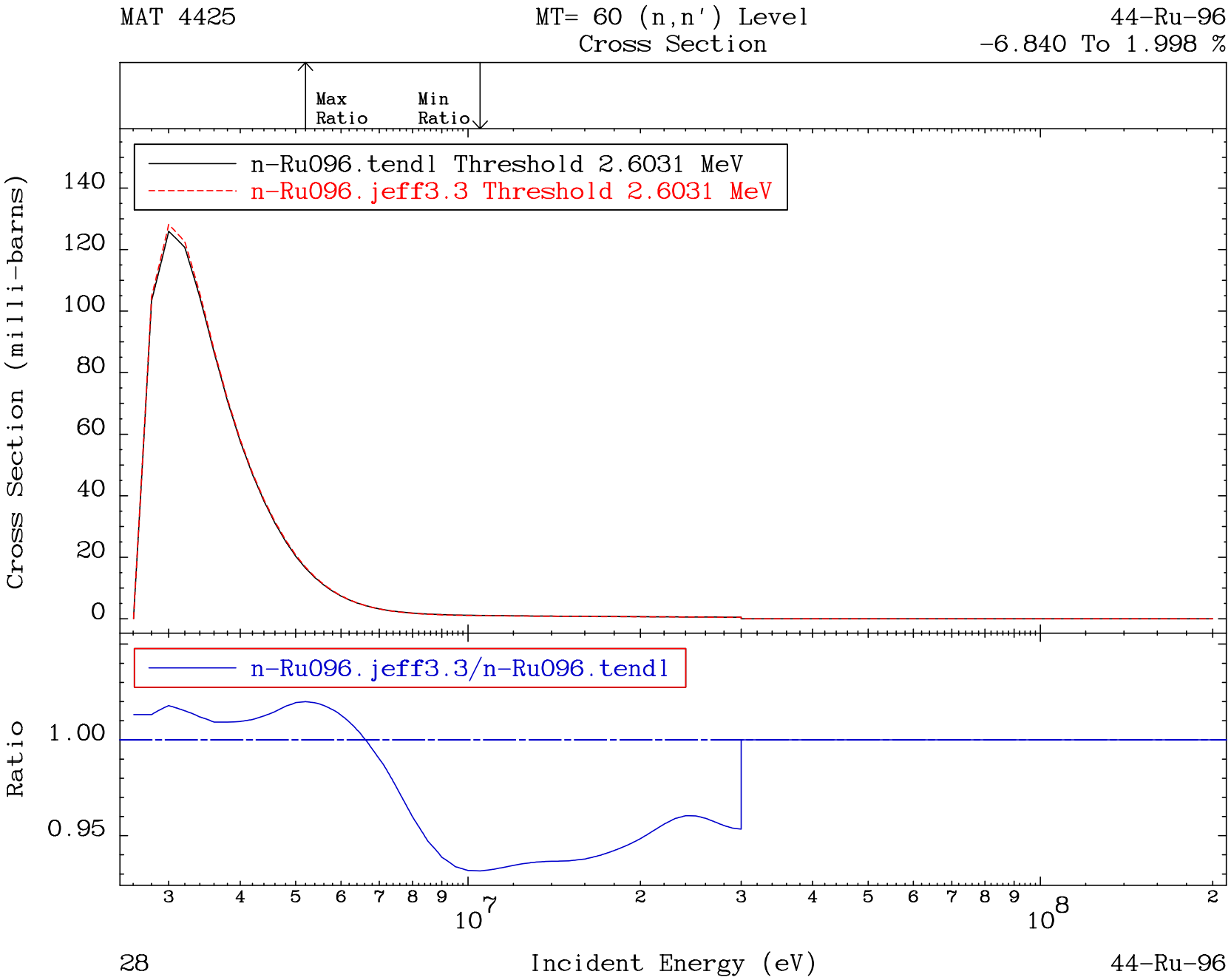

MAT 4425
MT= 55 (n,n') Level
Cross Section
44-Ru-96
-8.502 To 0.202 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.2401 MeV
n-Ru096.jeff3.3 Threshold 2.2401 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
44-Ru-96

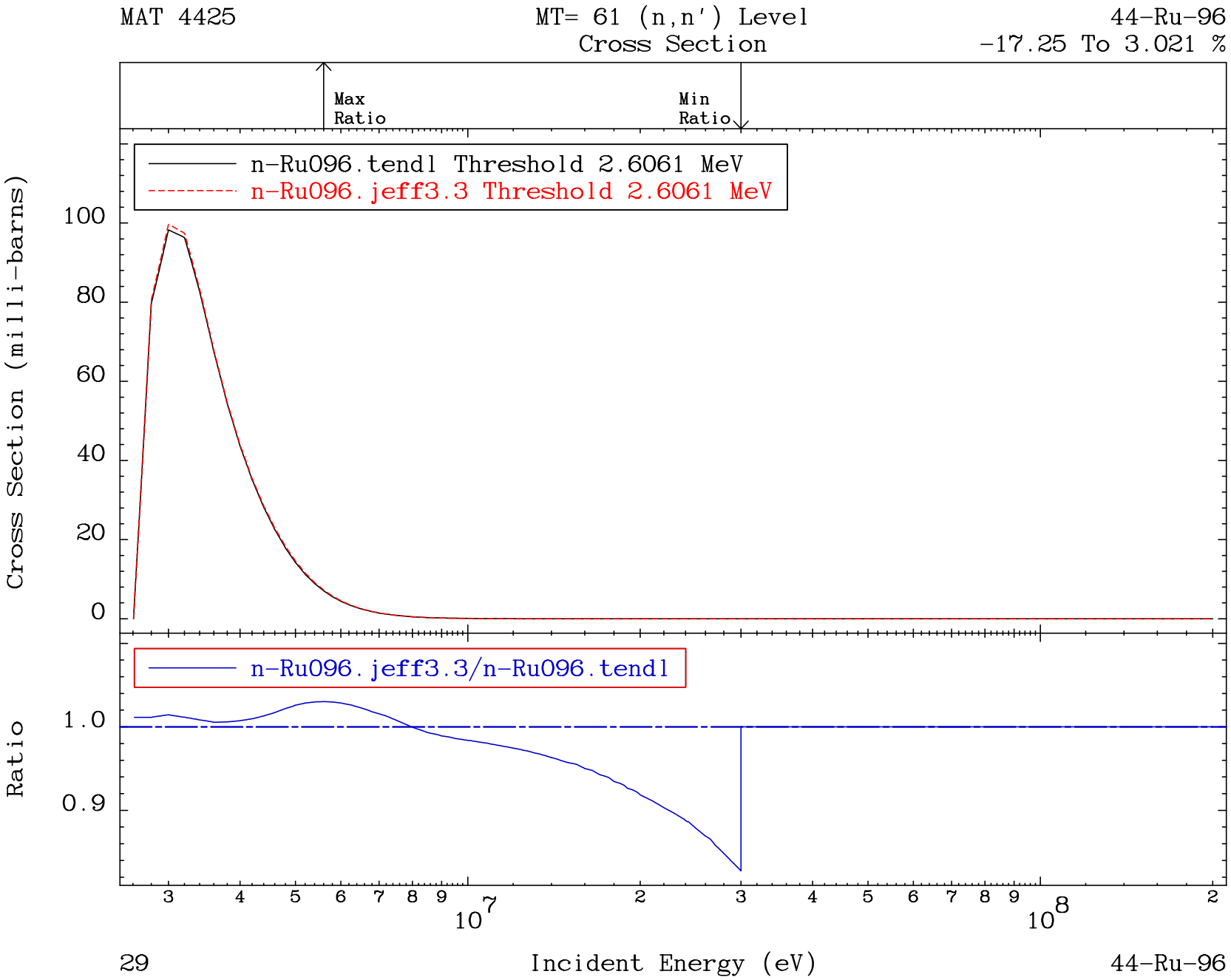

MAT 4425
MT= 56 (n,n') Level
Cross Section
44-Ru-96
-6.787 To 2.153 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.3079 MeV
n-Ru096.jeff3.3 Threshold 2.3079 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
24
Incident Energy (eV)
44-Ru-96

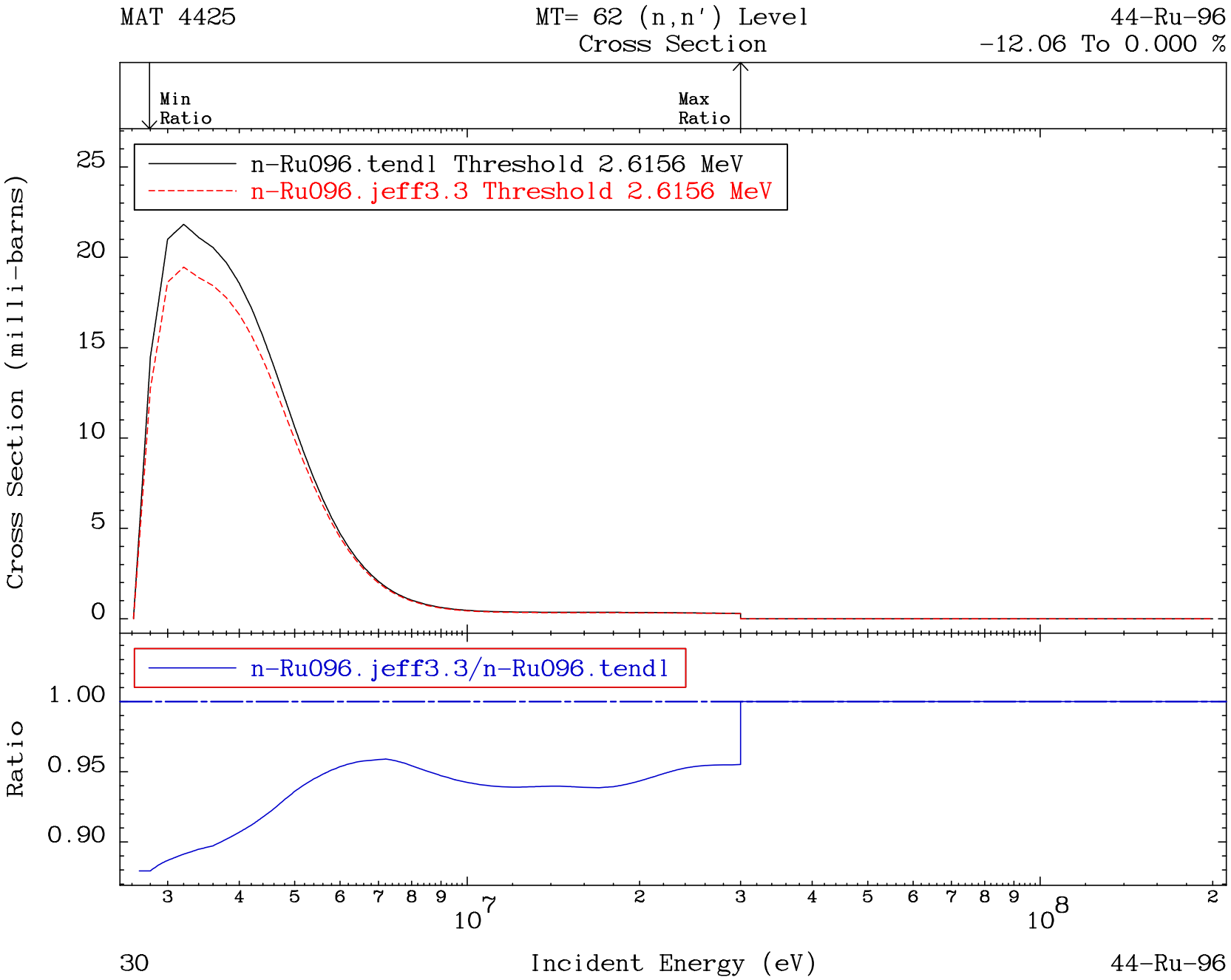

MAT 4425
MT= 57 (n,n') Level
Cross Section
44-Ru-96
-7.195 To 3.739 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.4881 MeV
n-Ru096.jeff3.3 Threshold 2.4881 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
44-Ru-96

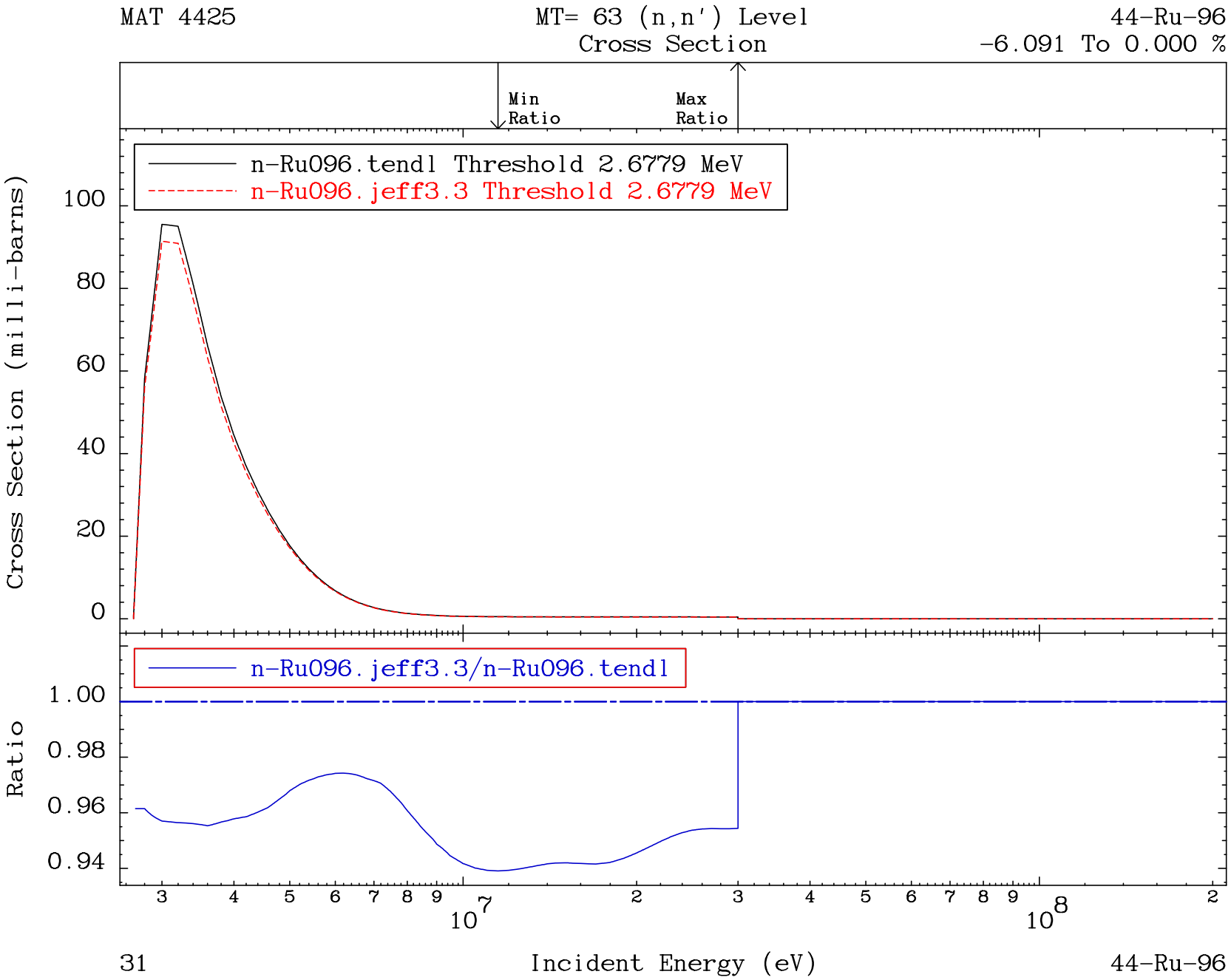

MAT 4425
MT= 58 (n,n') Level
Cross Section
44-Ru-96
-7.215 To 3.672 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.5514 MeV
n-Ru096.jeff3.3 Threshold 2.5514 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
26
Incident Energy (eV)
44-Ru-96

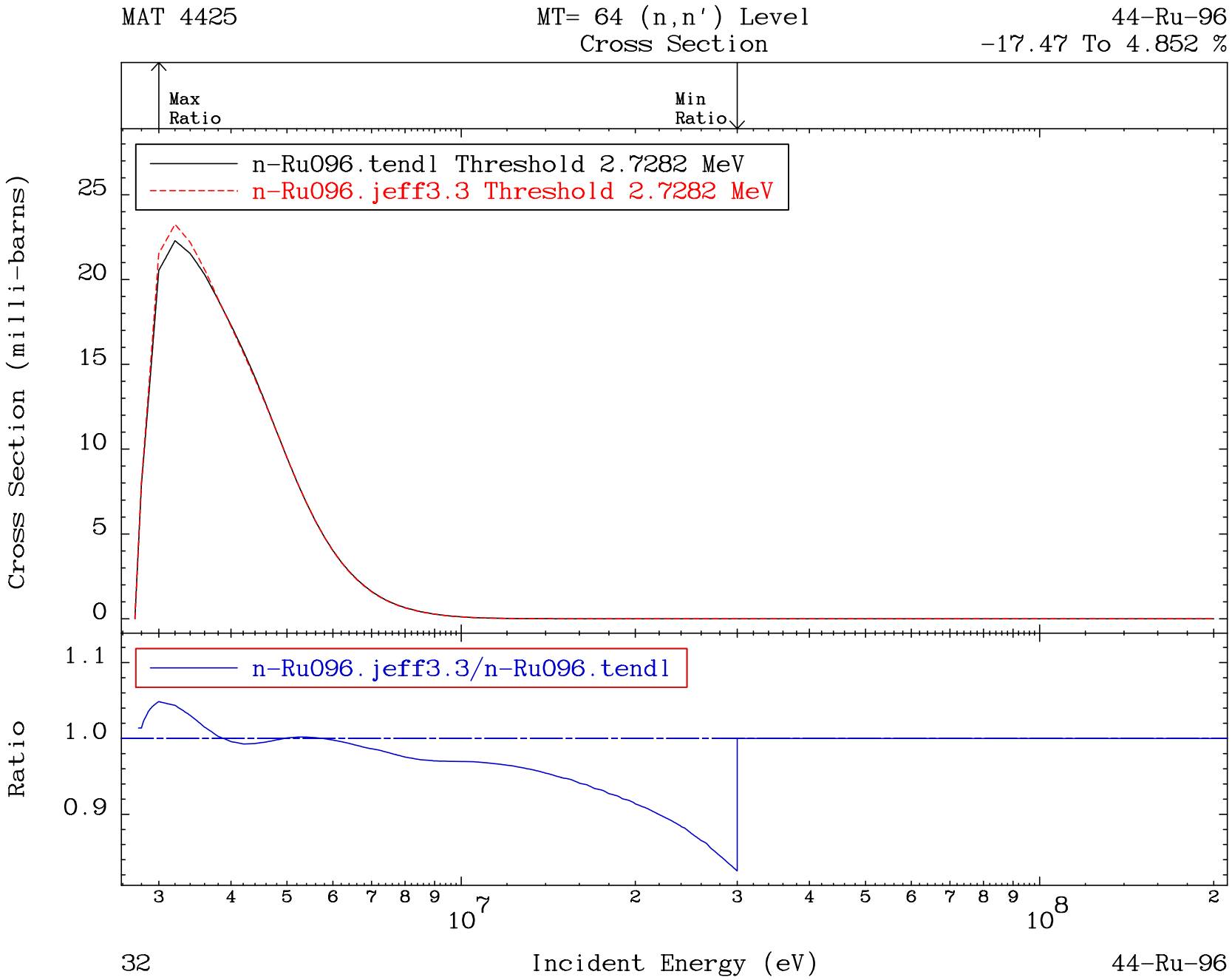

MAT 4425
MT= 59 (n,n') Level
Cross Section
44-Ru-96
-6.831 To 2.020 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.5551 MeV
n-Ru096.jeff3.3 Threshold 2.5551 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
44-Ru-96

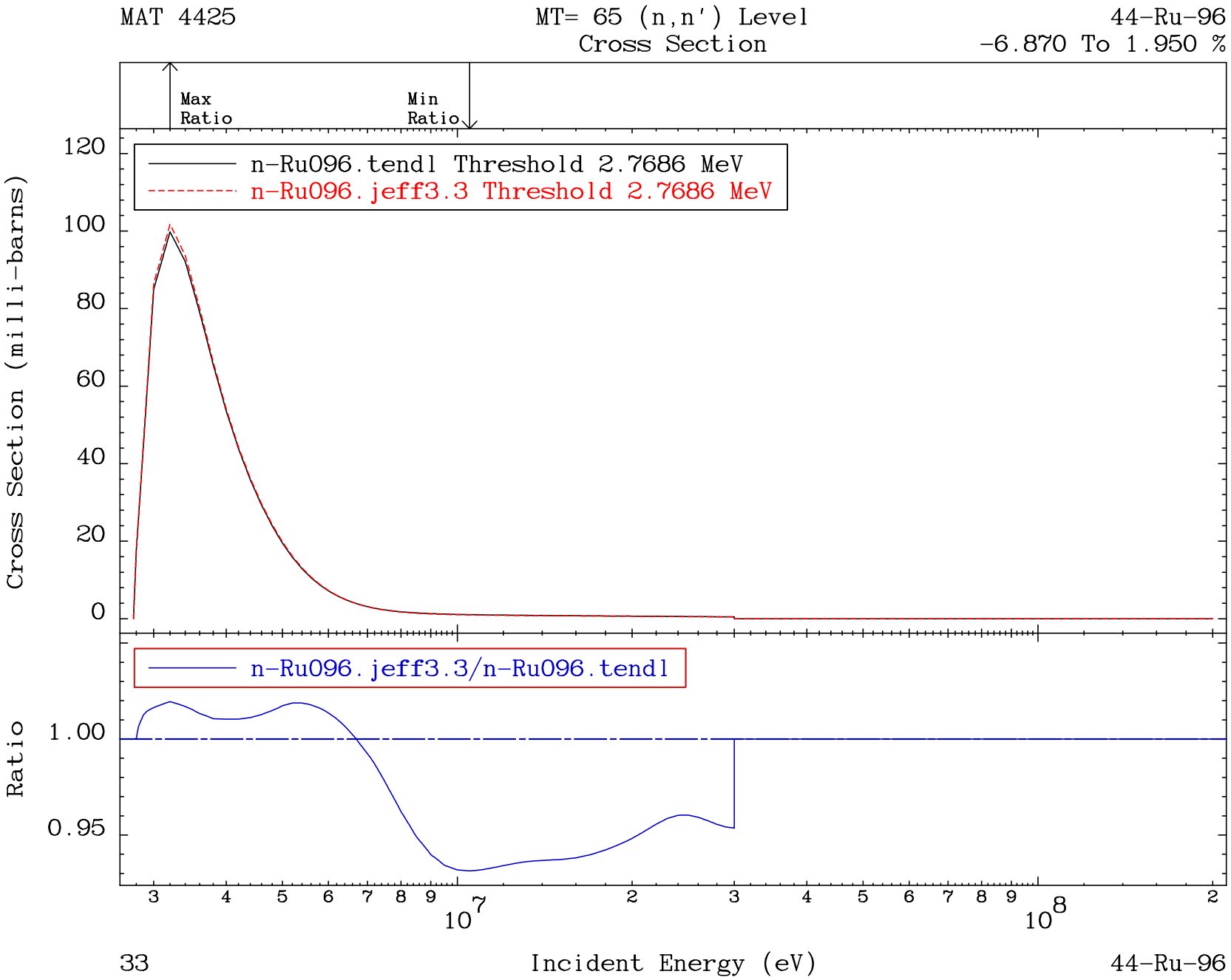

MAT 4425
MT= 60 (n,n') Level
Cross Section
44-Ru-96
-6.840 To 1.998 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.6031 MeV
n-Ru096.jeff3.3 Threshold 2.6031 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
28
Incident Energy (eV)
44-Ru-96

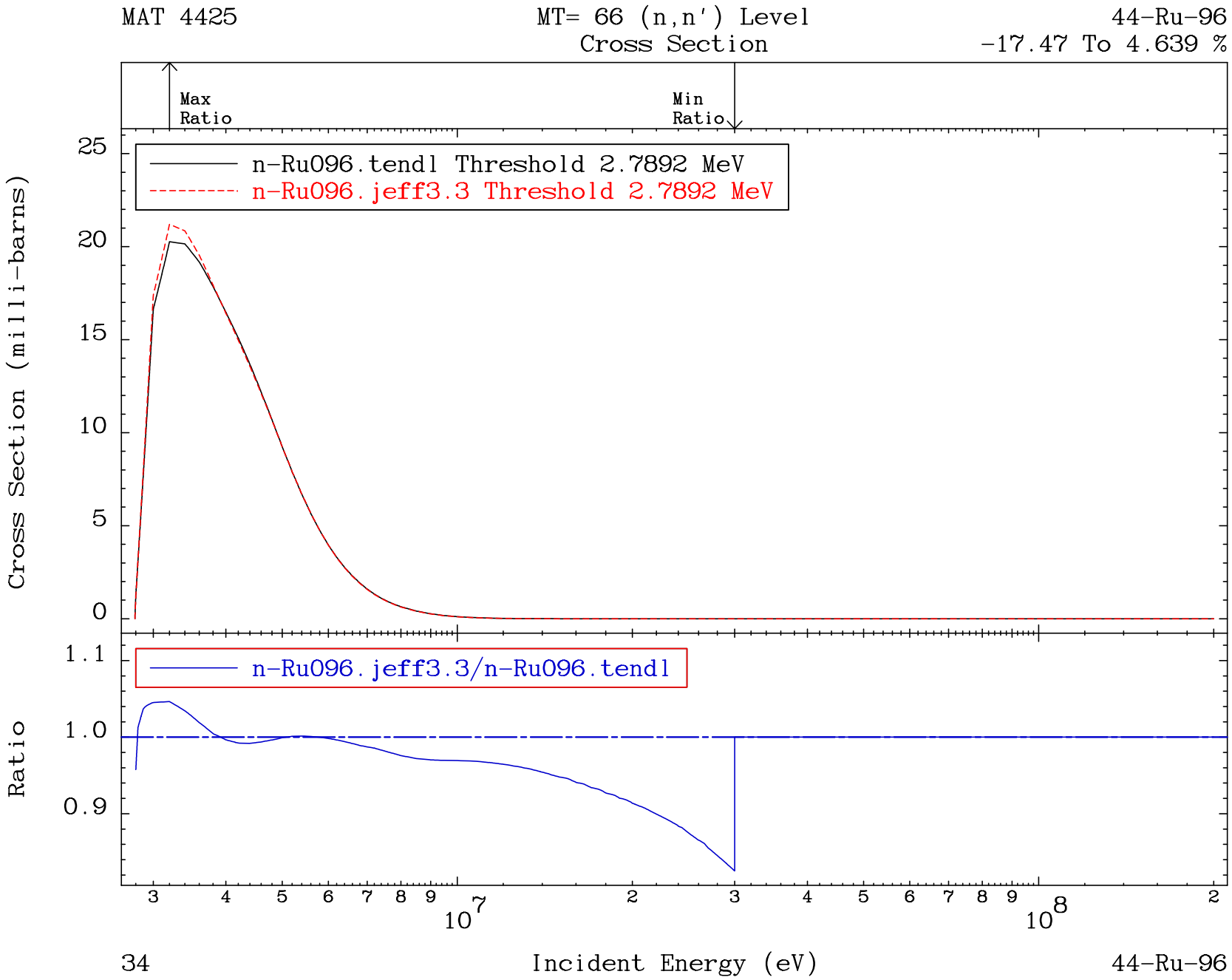

MAT 4425
MT= 61 (n,n') Level
Cross Section
44-Ru-96
-17.25 To 3.021 %
Max
Ratio
Min
Ratio
n-Ru096.tendl Threshold 2.6061 MeV
n-Ru096.jeff3.3 Threshold 2.6061 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.0
0.9
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
29
Incident Energy (eV)
44-Ru-96

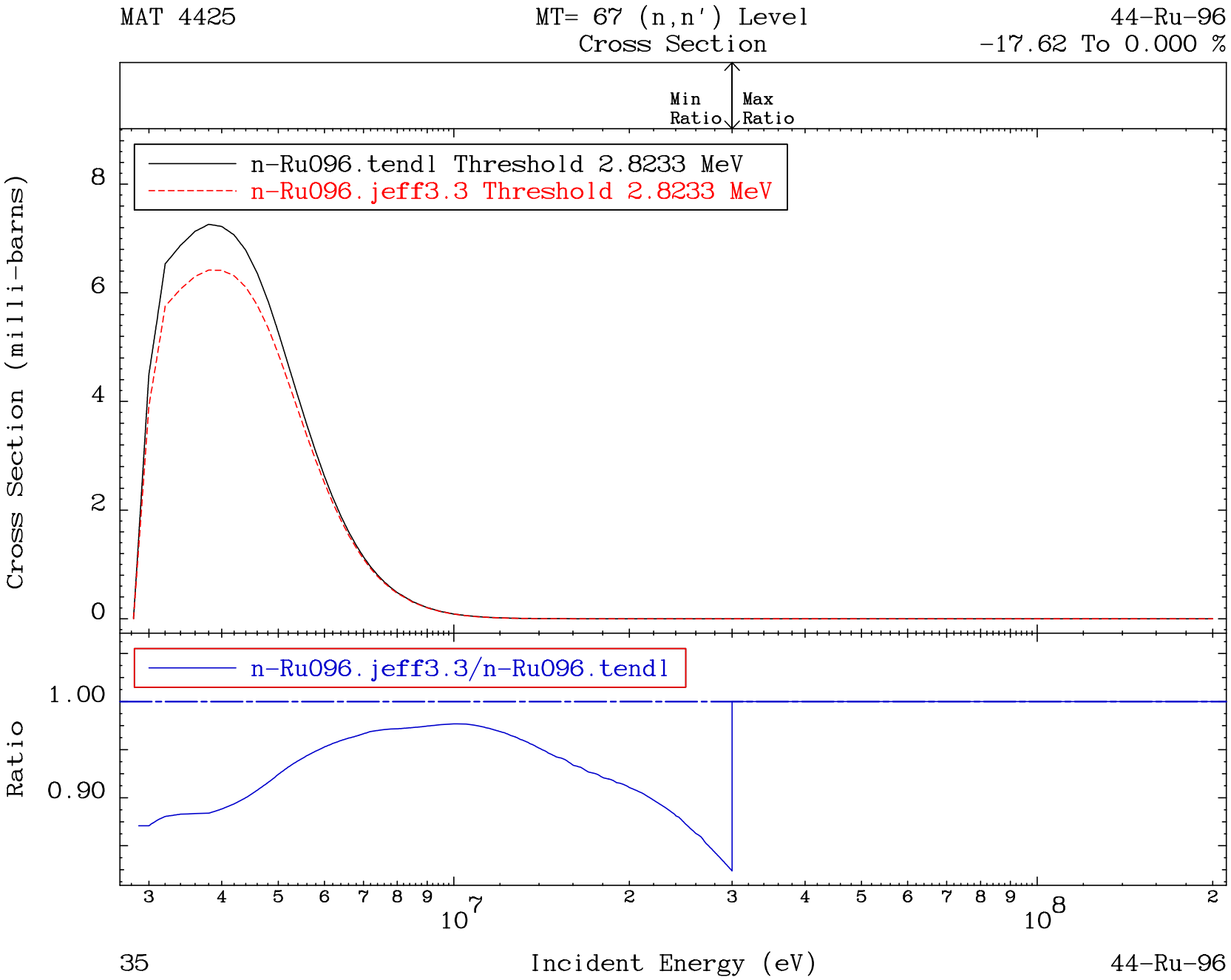

MAT 4425
MT= 62 (n,n') Level
Cross Section
44-Ru-96
-12.06 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 2.6156 MeV
n-Ru096.jeff3.3 Threshold 2.6156 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
30
Incident Energy (eV)
44-Ru-96

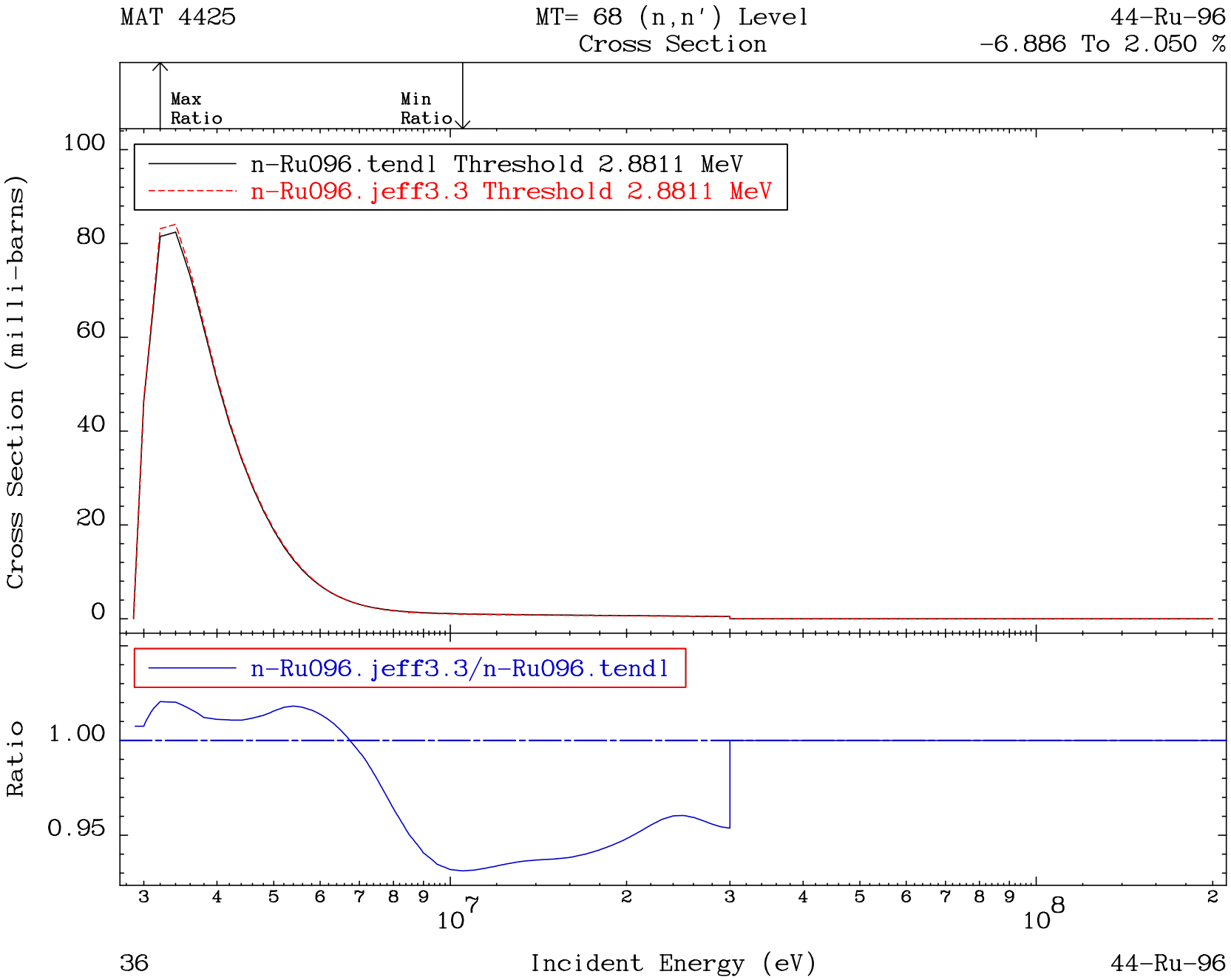

MAT 4425
MT= 63 (n,n') Level
Cross Section
44-Ru-96
-6.091 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 2.6779 MeV
n-Ru096.jeff3.3 Threshold 2.6779 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.98
0.96
0.94
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
31
Incident Energy (eV)
44-Ru-96

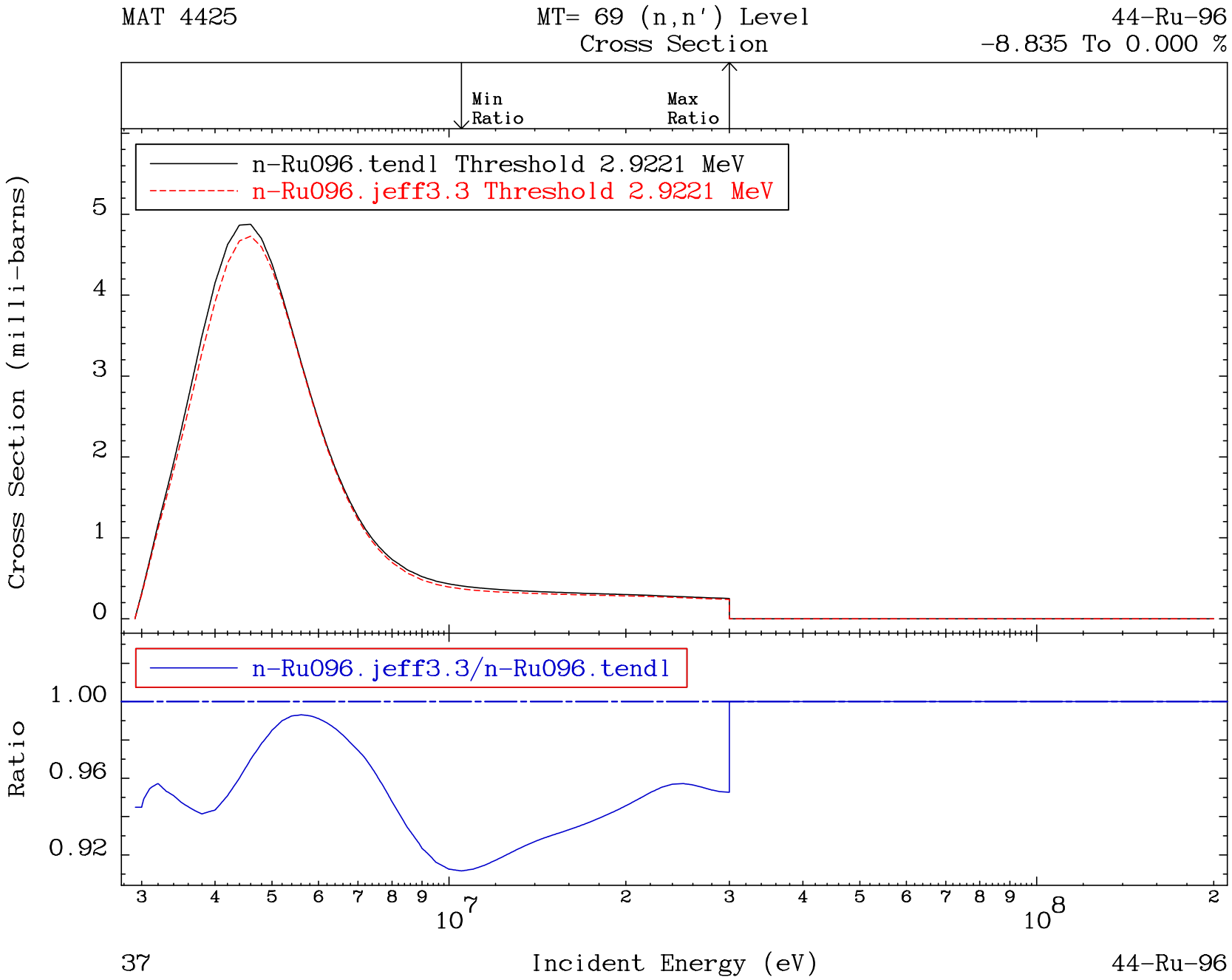

MAT 4425
MT= 64 (n,n') Level
Cross Section
44-Ru-96
-17.47 To 4.852 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.7282 MeV
n-Ru096.jeff3.3 Threshold 2.7282 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
32
Incident Energy (eV)
44-Ru-96

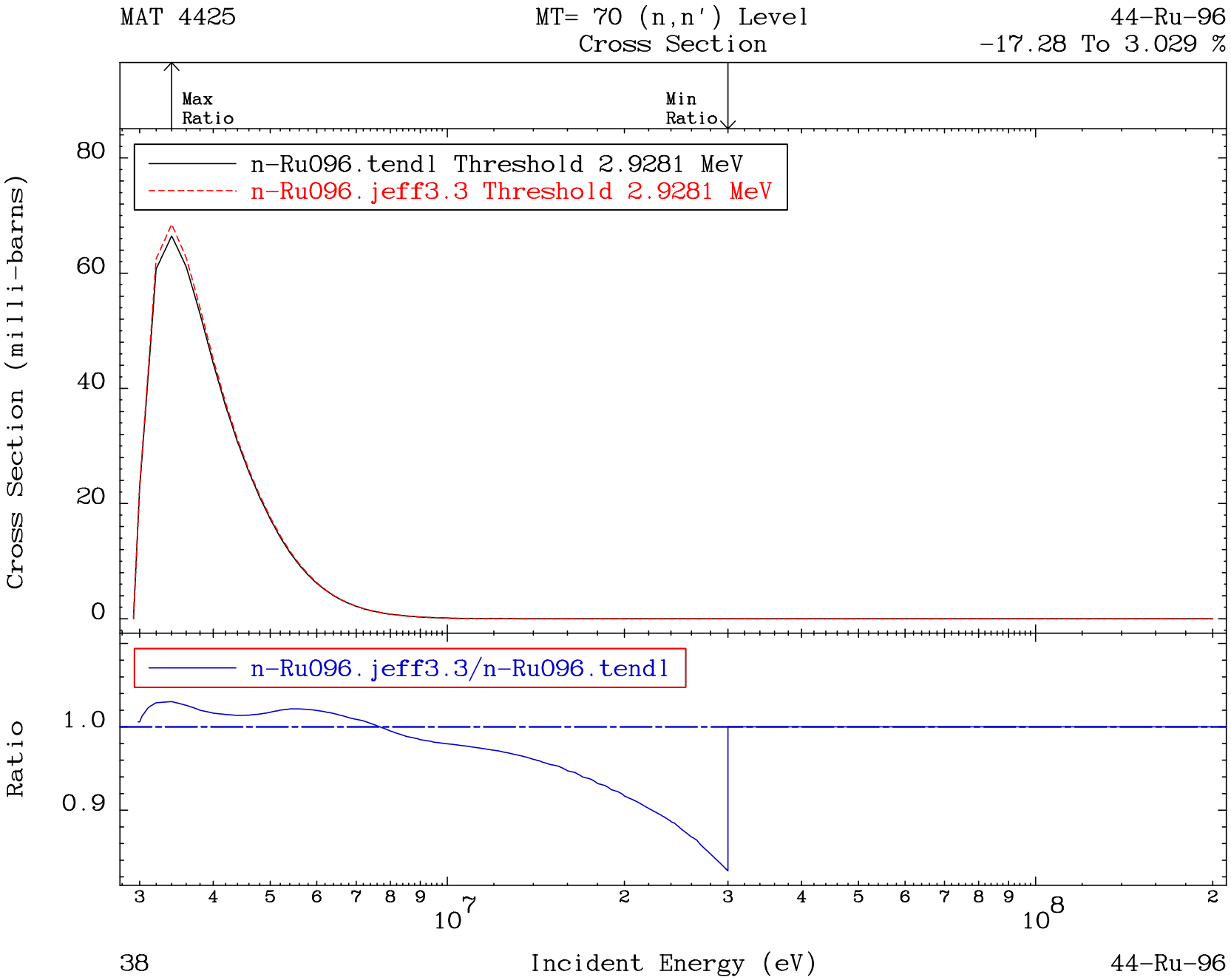

MAT 4425
MT= 65 (n,n') Level
Cross Section
44-Ru-96
-6.870 To 1.950 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.7686 MeV
n-Ru096.jeff3.3 Threshold 2.7686 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
44-Ru-96

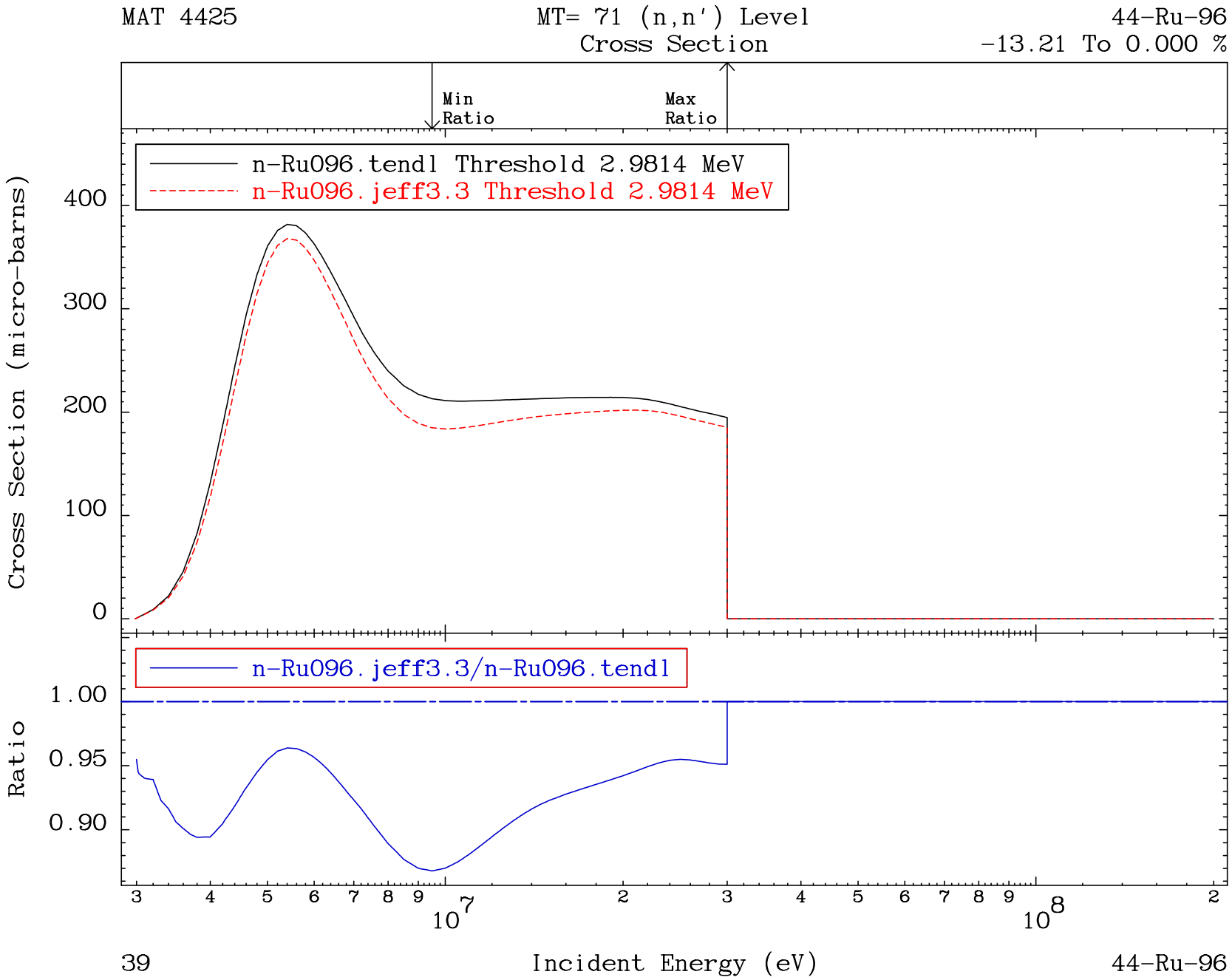

MAT 4425
MT= 66 (n,n') Level
Cross Section
44-Ru-96
-17.47 To 4.639 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.7892 MeV
n-Ru096.jeff3.3 Threshold 2.7892 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
34
Incident Energy (eV)
44-Ru-96

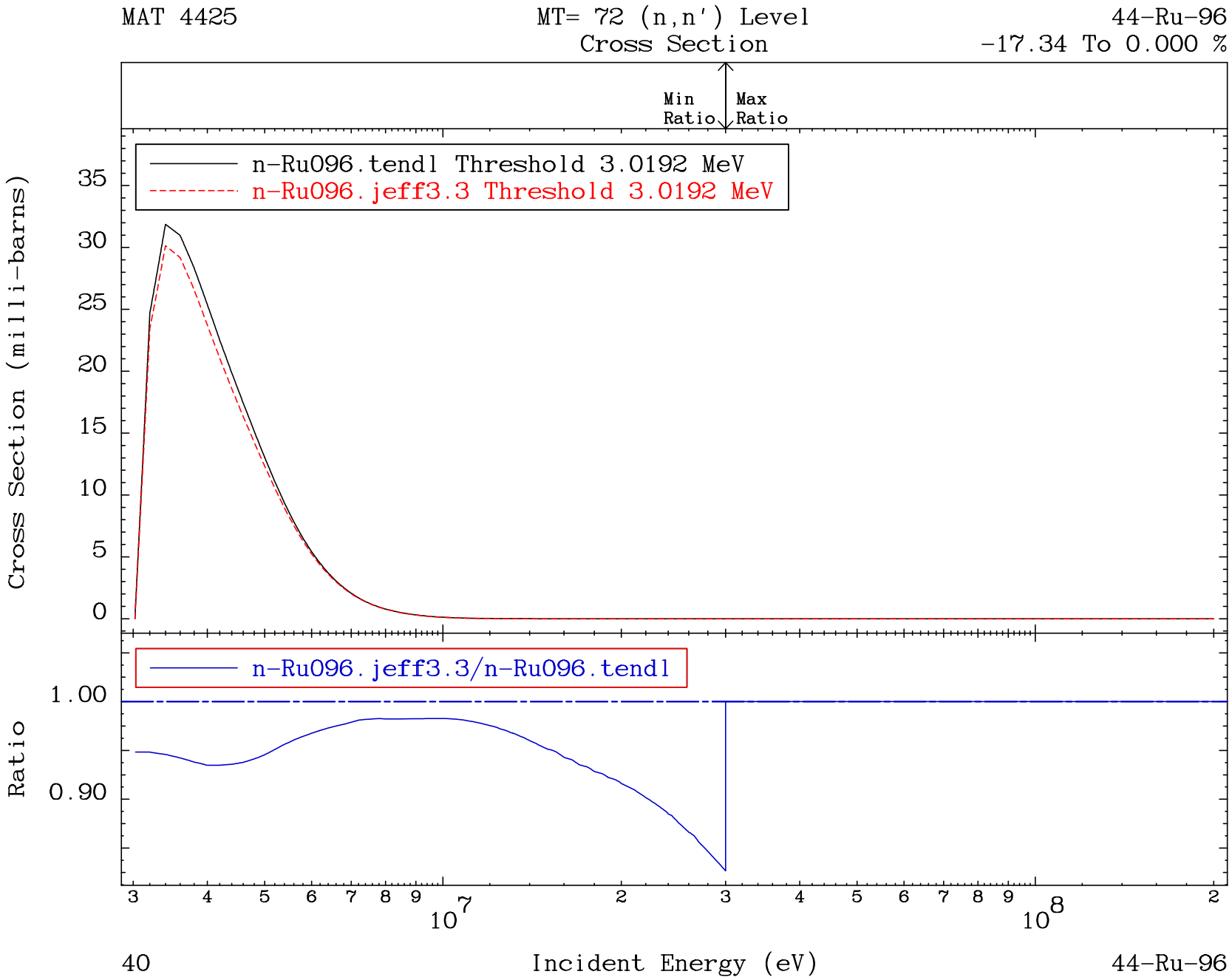

MAT 4425
MT= 67 (n,n') Level
Cross Section
44-Ru-96
-17.62 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 2.8233 MeV
n-Ru096.jeff3.3 Threshold 2.8233 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
44-Ru-96

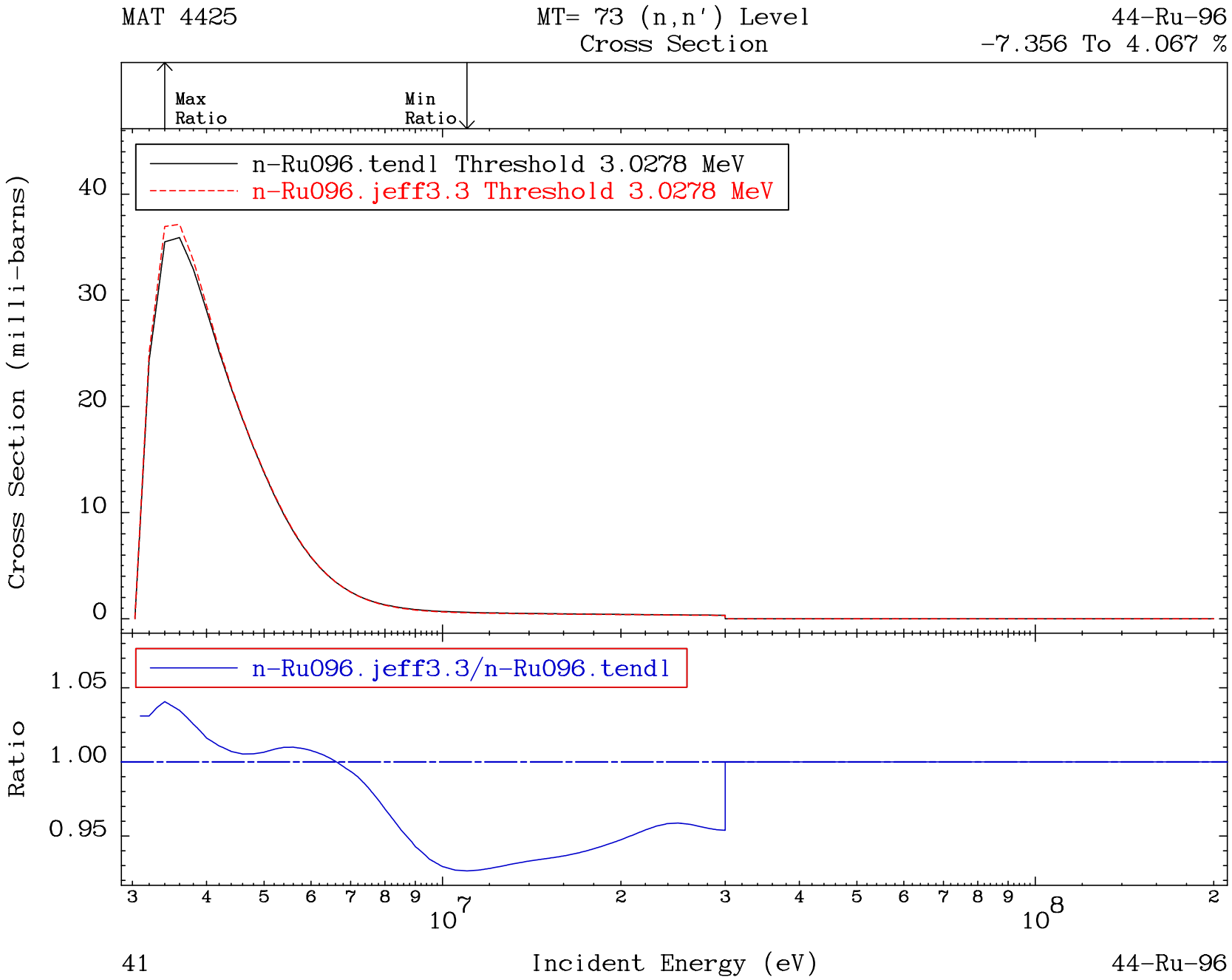

MAT 4425
MT= 68 (n,n') Level
Cross Section
44-Ru-96
-6.886 To 2.050 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.8811 MeV
n-Ru096.jeff3.3 Threshold 2.8811 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
44-Ru-96

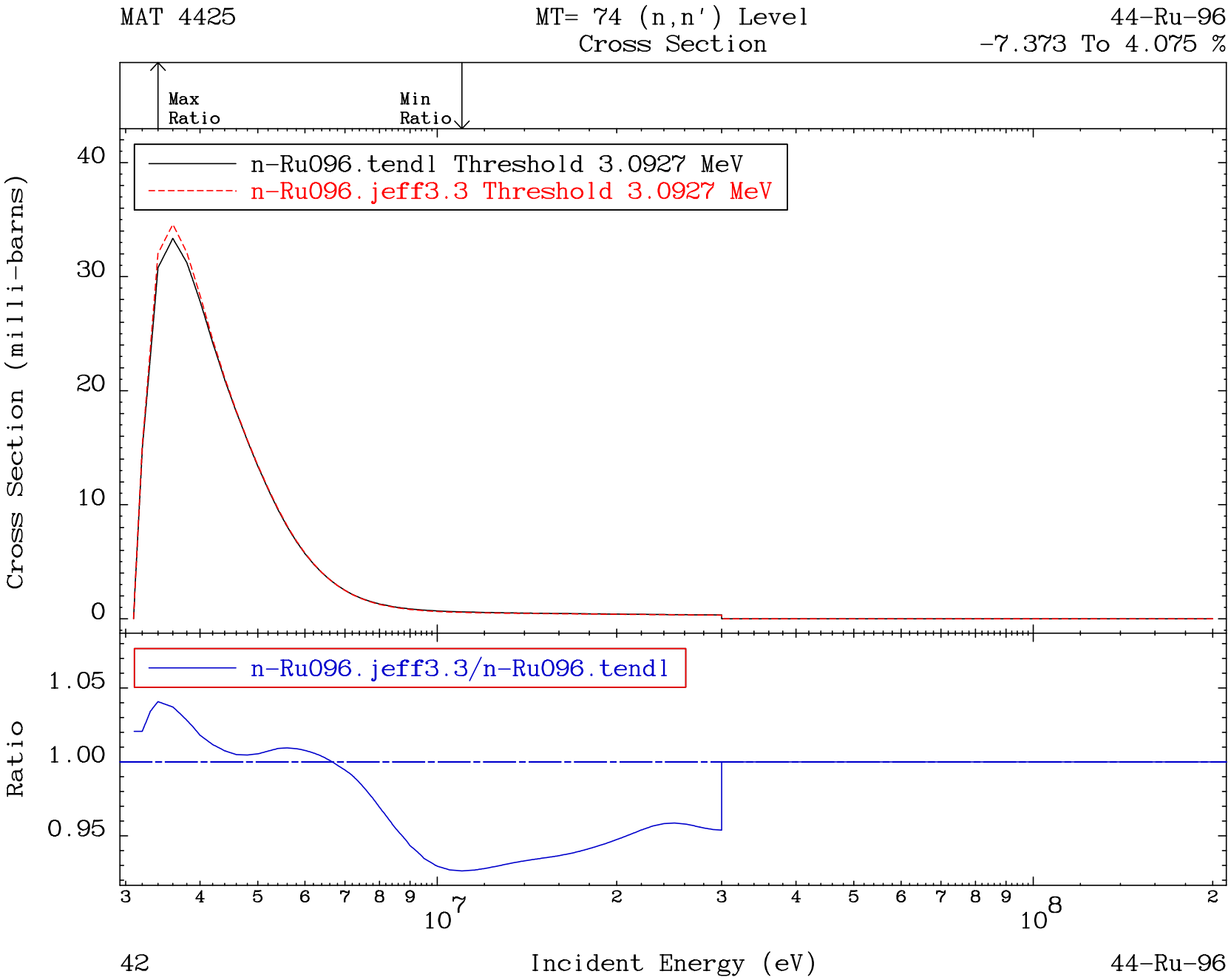

MAT 4425
MT= 69 (n,n') Level
Cross Section
44-Ru-96
-8.835 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 2.9221 MeV
n-Ru096.jeff3.3 Threshold 2.9221 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.96
0.92
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
44-Ru-96

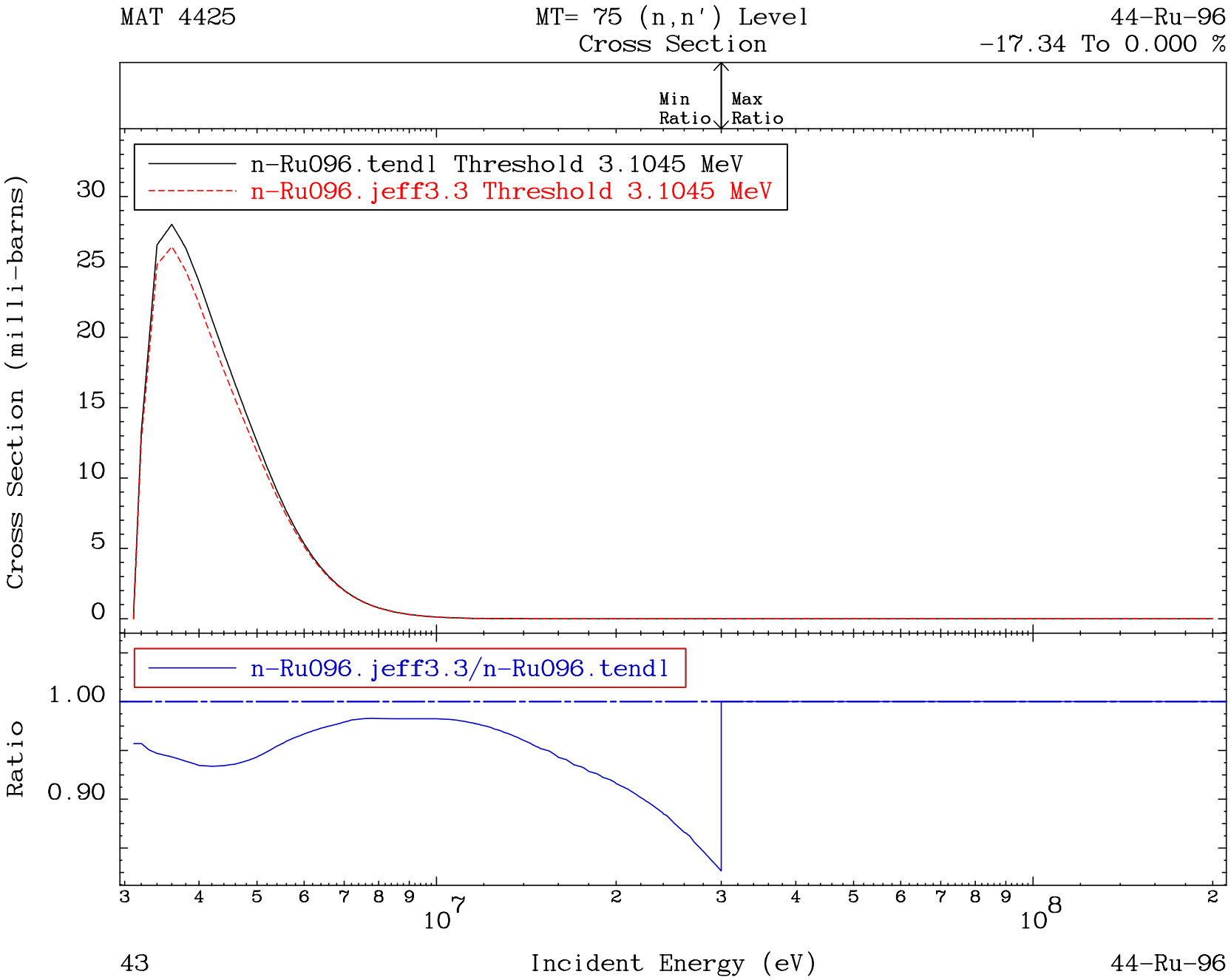

MAT 4425
MT= 70 (n,n') Level
Cross Section
44-Ru-96
-17.28 To 3.029 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.9281 MeV
n-Ru096.jeff3.3 Threshold 2.9281 MeV
Cross Section (milli-barns)
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.0
0.9
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
44-Ru-96

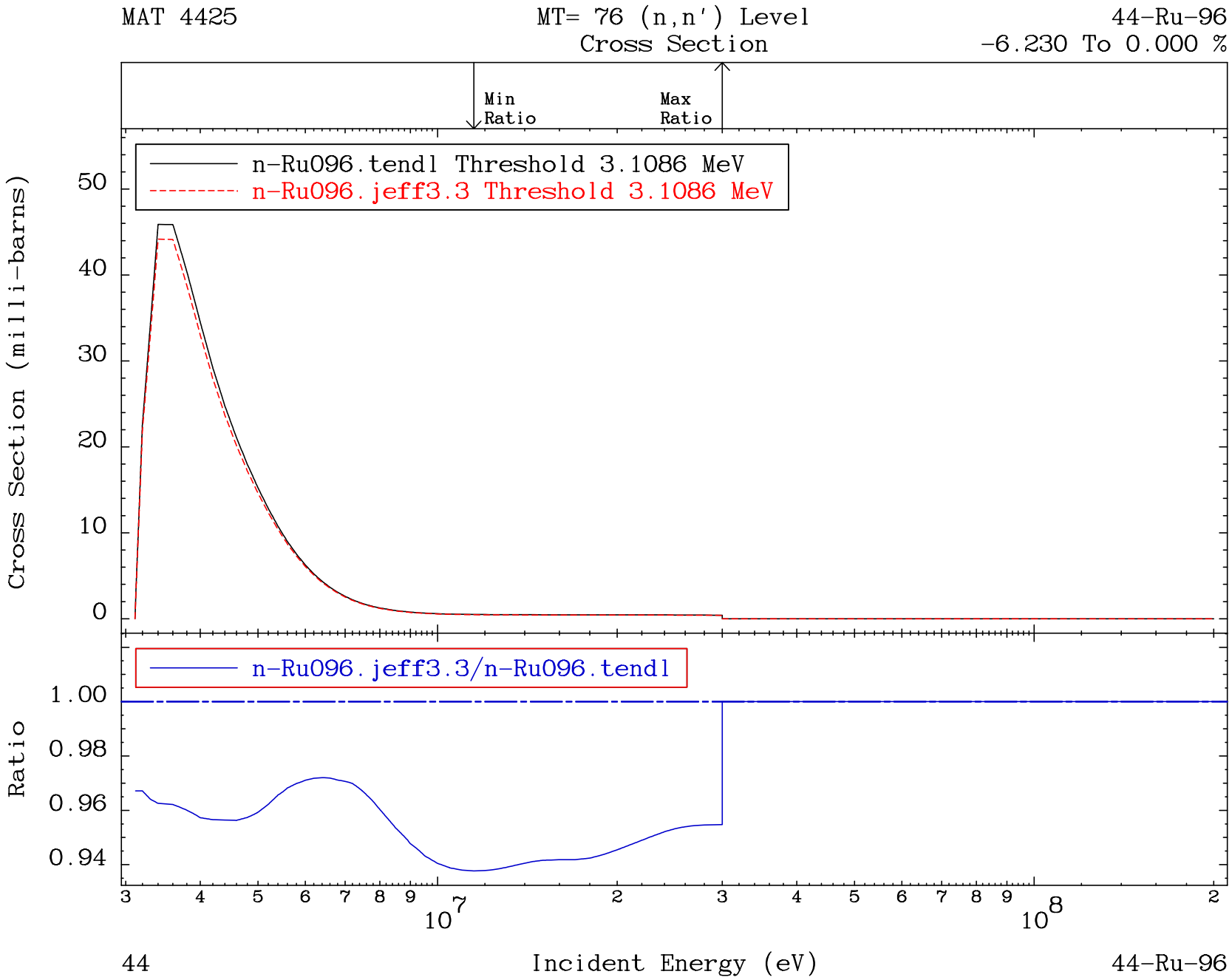

MAT 4425
MT= 71 (n,n') Level
Cross Section
44-Ru-96
-13.21 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 2.9814 MeV
n-Ru096.jeff3.3 Threshold 2.9814 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
44-Ru-96

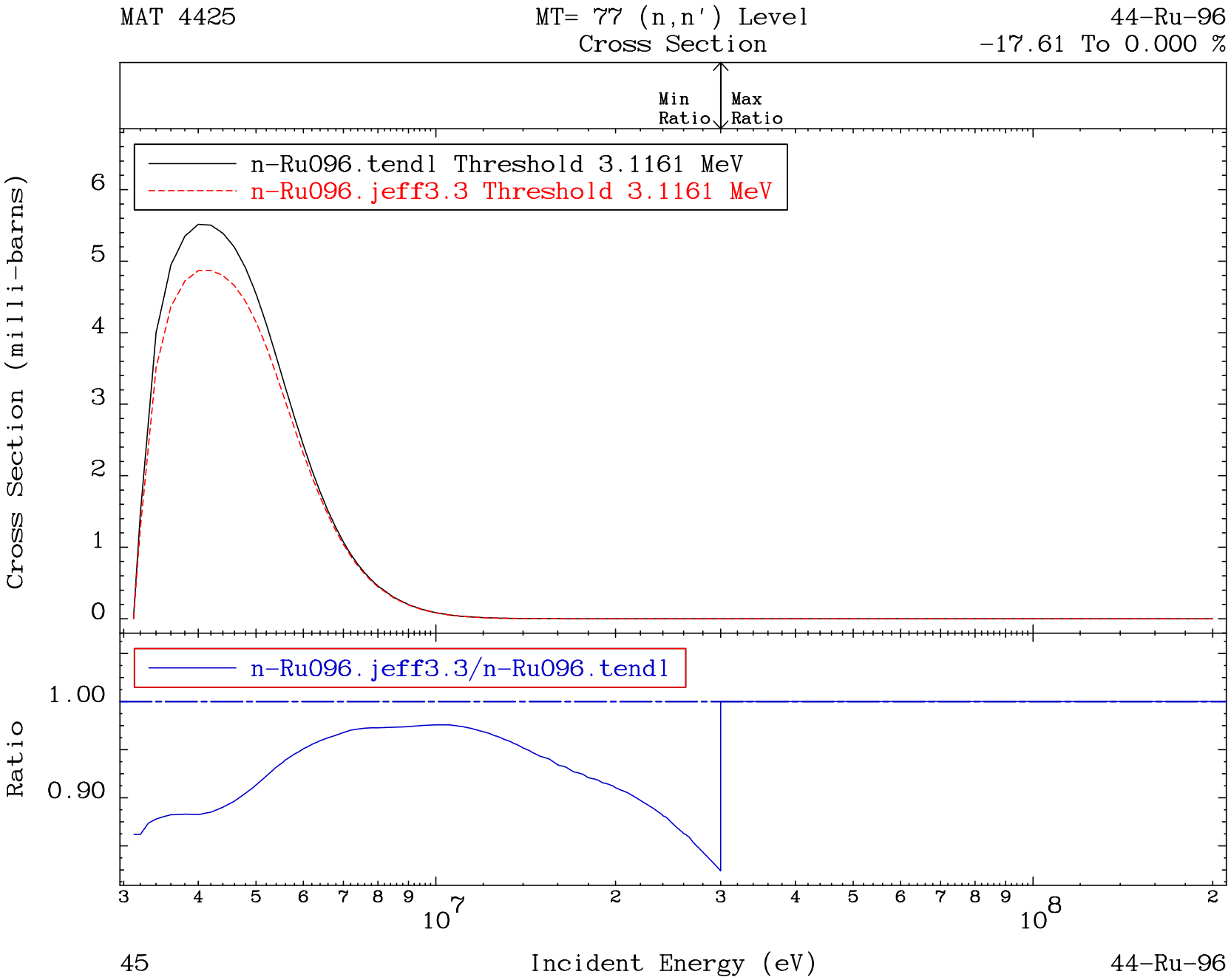

MAT 4425
MT= 72 (n,n') Level
Cross Section
44-Ru-96
-17.34 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 3.0192 MeV
n-Ru096.jeff3.3 Threshold 3.0192 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
44-Ru-96

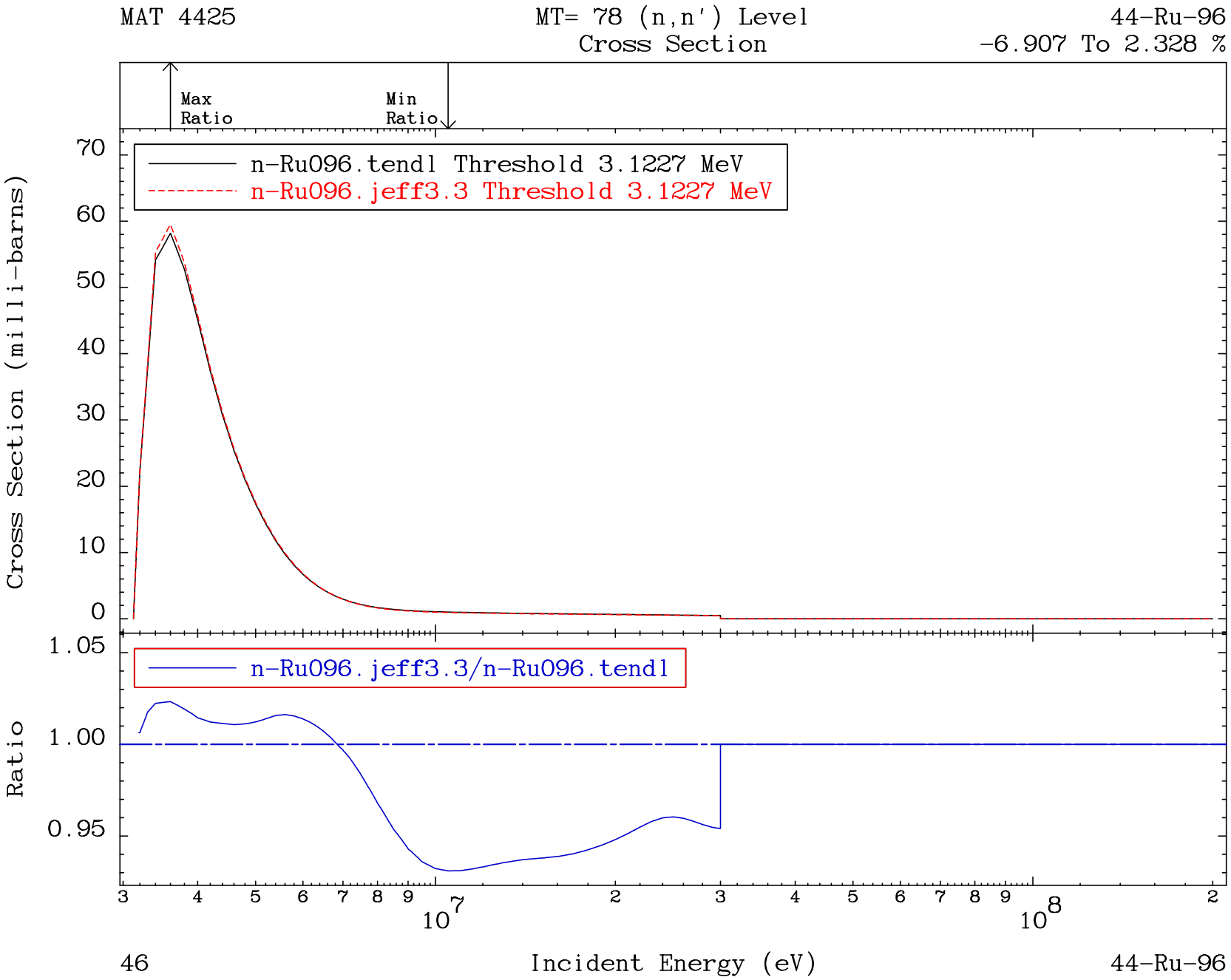

MAT 4425
MT= 73 (n,n') Level
Cross Section
44-Ru-96
-7.356 To 4.067 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 3.0278 MeV
n-Ru096.jeff3.3 Threshold 3.0278 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
44-Ru-96

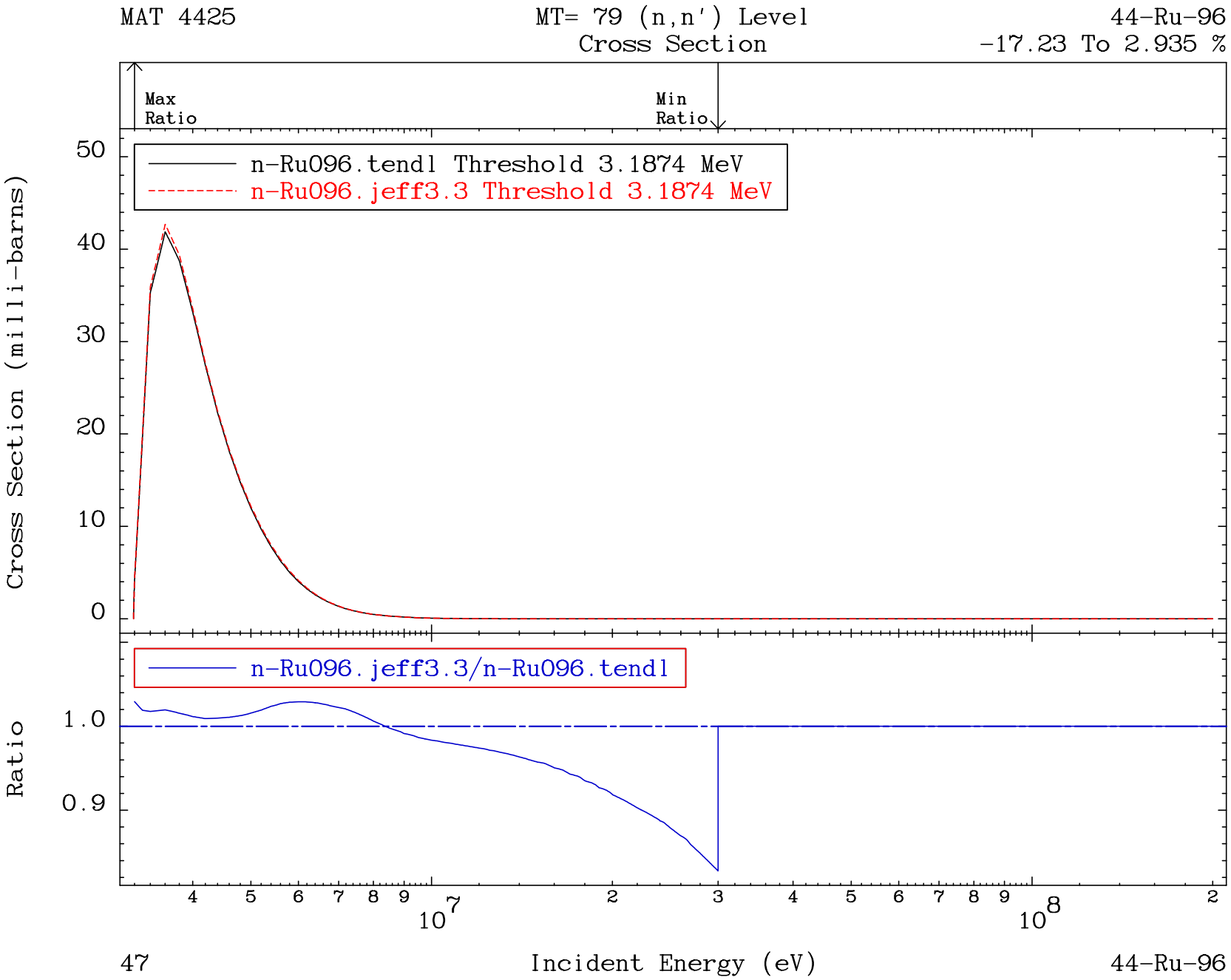

MAT 4425
MT= 74 (n,n') Level
Cross Section
44-Ru-96
-7.373 To 4.075 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 3.0927 MeV
n-Ru096.jeff3.3 Threshold 3.0927 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
44-Ru-96

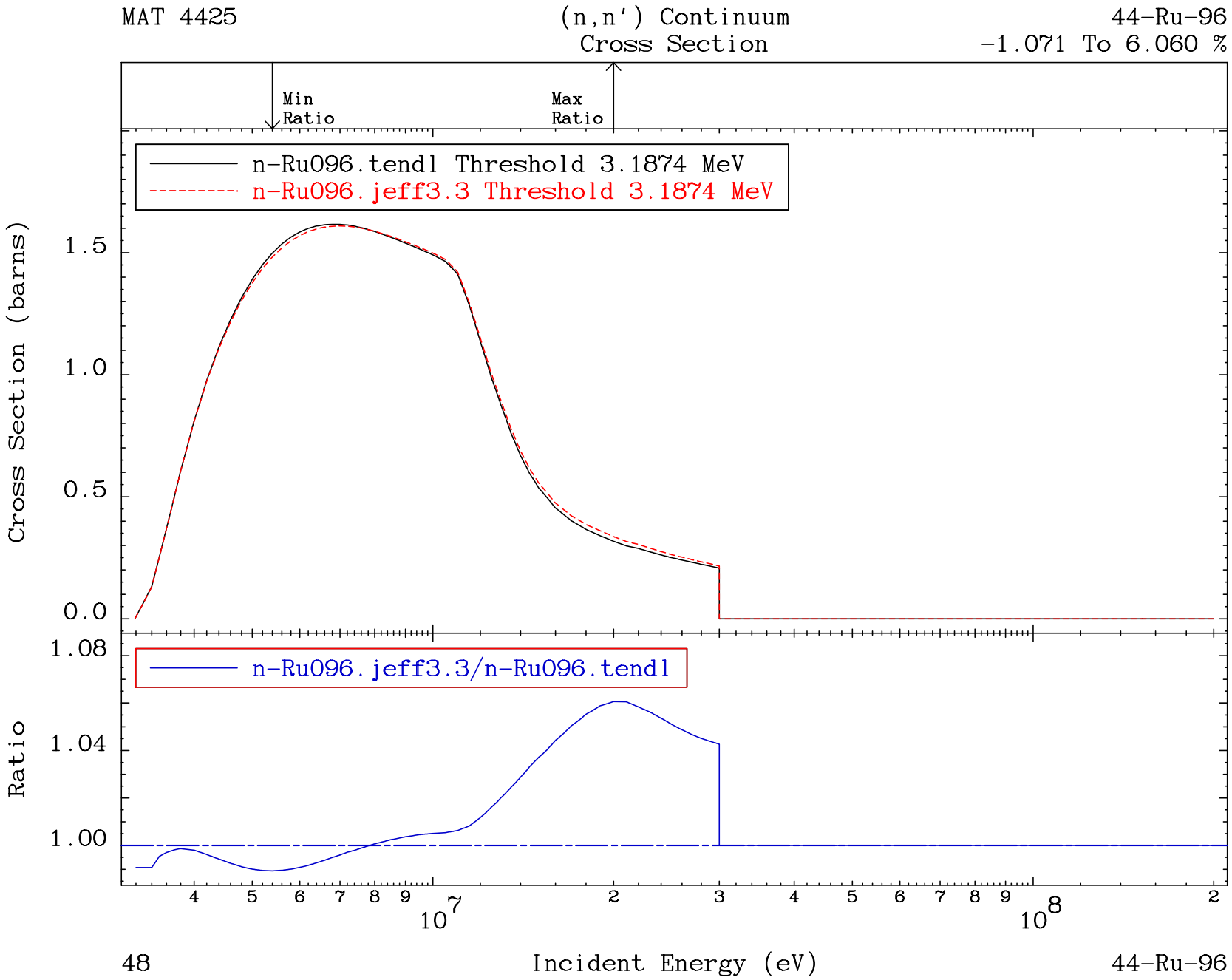

MAT 4425
MT= 75 (n,n') Level
Cross Section
44-Ru-96
-17.34 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 3.1045 MeV
n-Ru096.jeff3.3 Threshold 3.1045 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.90
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
43
Incident Energy (eV)
44-Ru-96

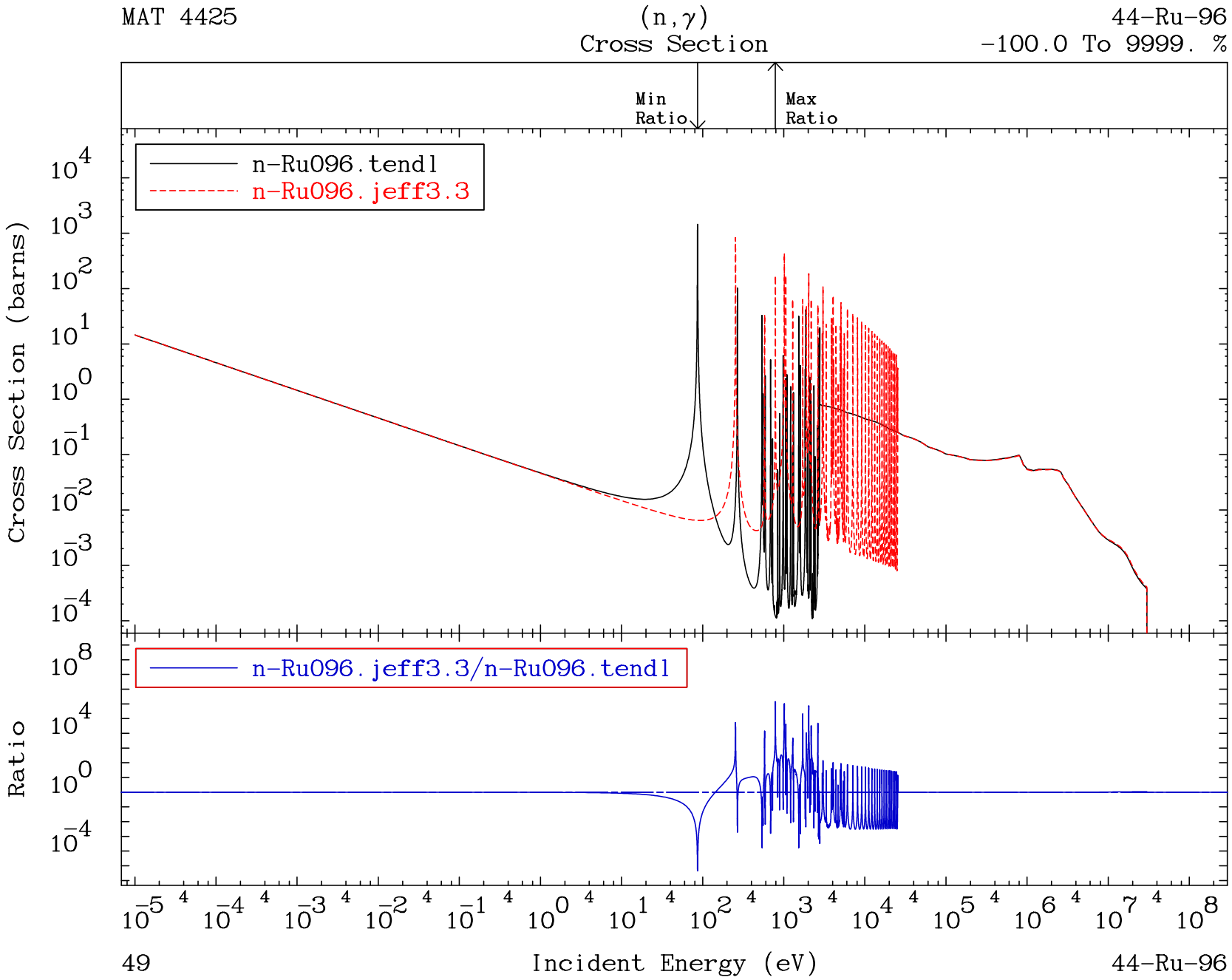

MAT 4425
MT= 76 (n,n') Level
Cross Section
44-Ru-96
-6.230 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 3.1086 MeV
n-Ru096.jeff3.3 Threshold 3.1086 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.98
0.96
0.94
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
44-Ru-96

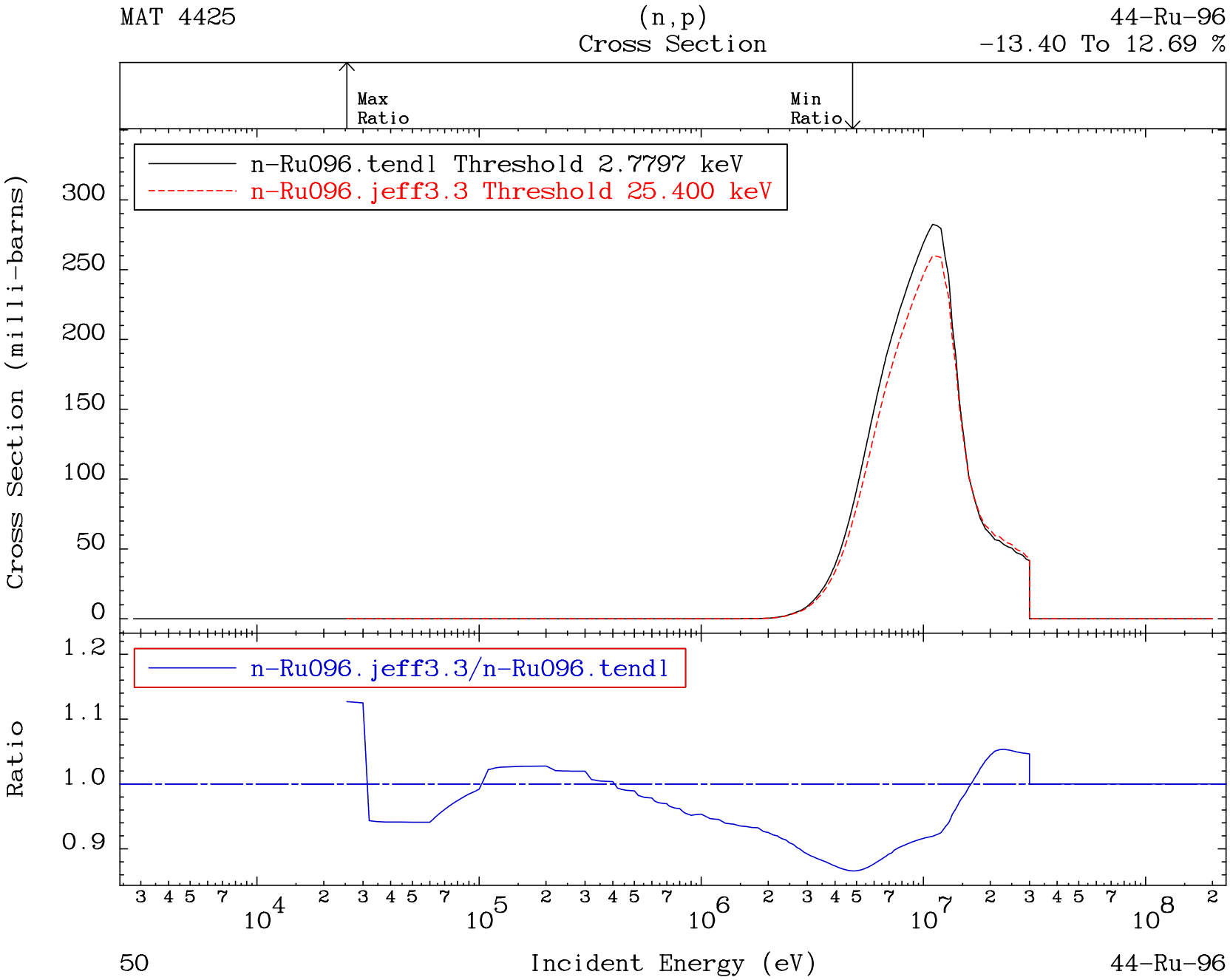

MAT 4425
MT= 77 (n,n') Level
Cross Section
44-Ru-96
-17.61 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 3.1161 MeV
n-Ru096.jeff3.3 Threshold 3.1161 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.90
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
44-Ru-96

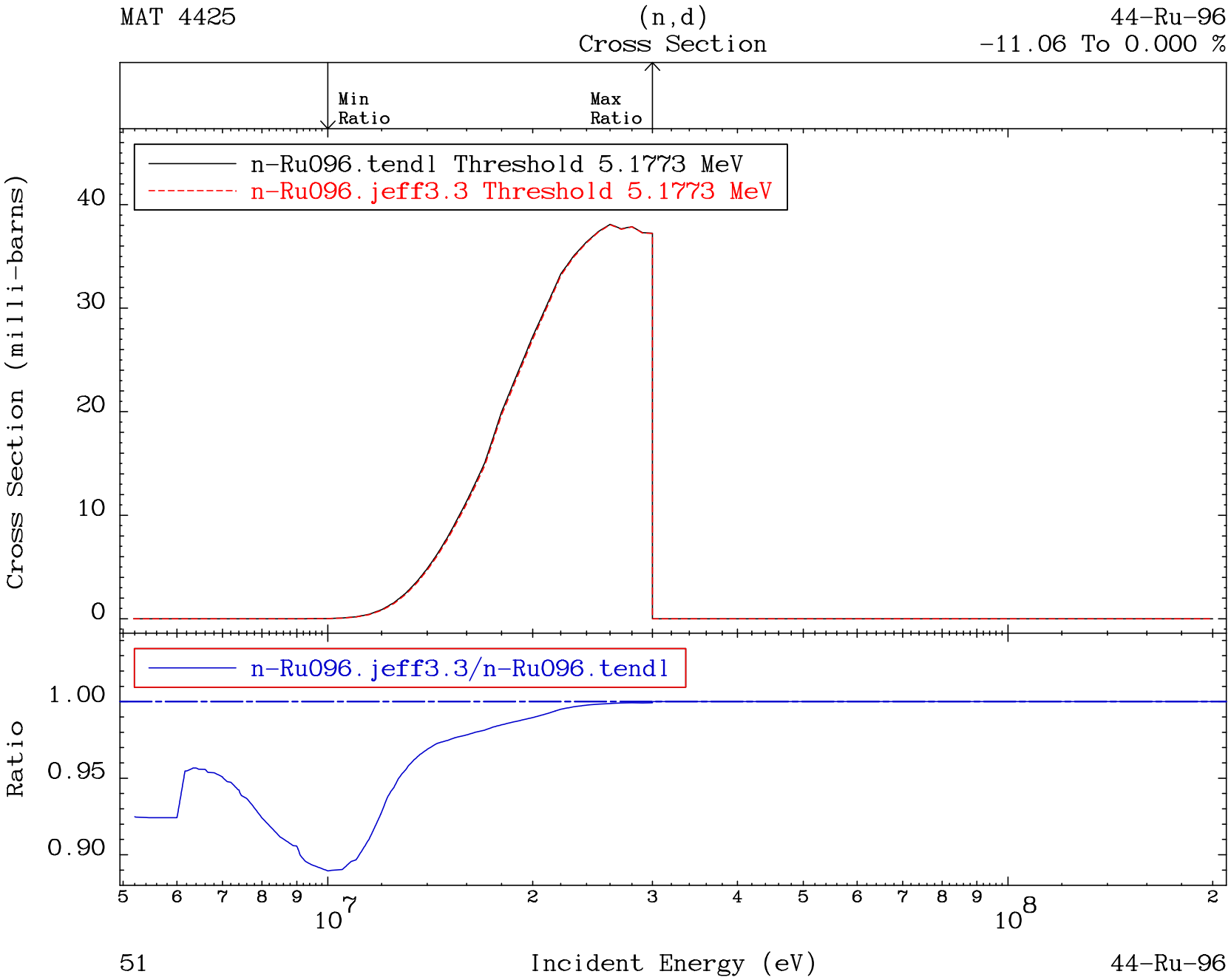

MAT 4425
MT= 78 (n,n') Level
Cross Section
44-Ru-96
-6.907 To 2.328 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 3.1227 MeV
n-Ru096.jeff3.3 Threshold 3.1227 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
44-Ru-96

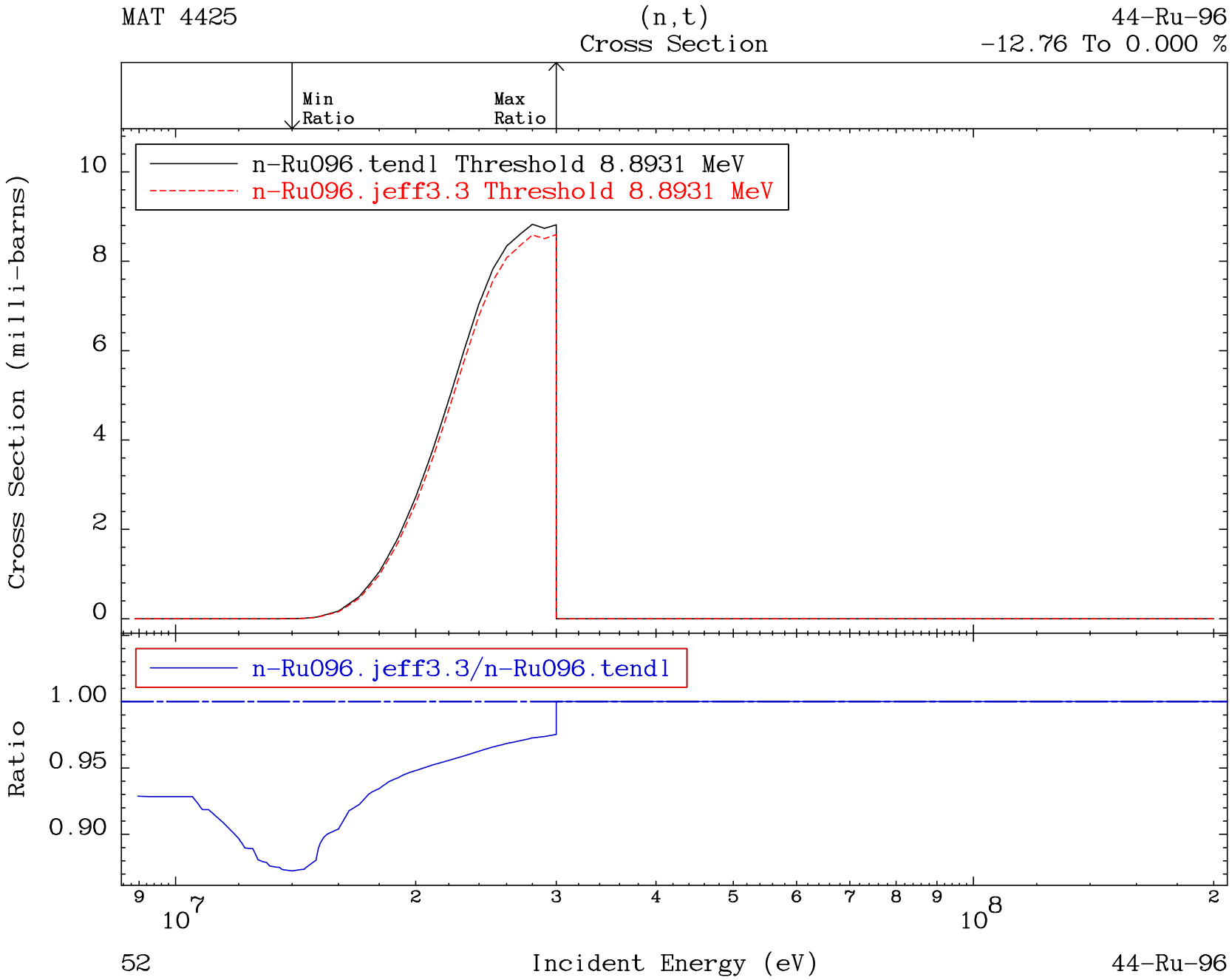

MAT 4425
MT= 79 (n,n') Level
Cross Section
44-Ru-96
-17.23 To 2.935 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 3.1874 MeV
n-Ru096.jeff3.3 Threshold 3.1874 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.0
0.9
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
44-Ru-96

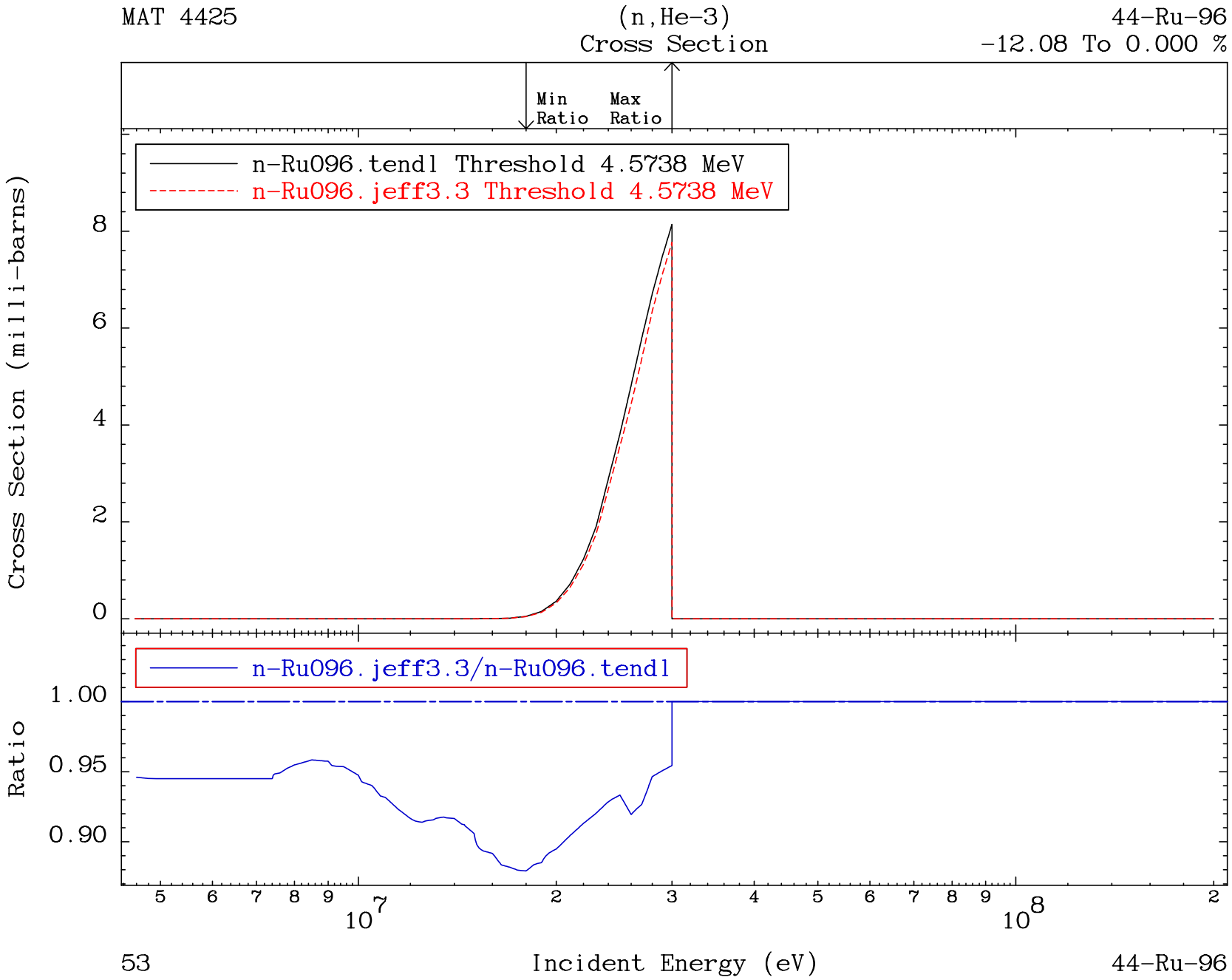

MAT 4425
(n,n') Continuum
Cross Section
44-Ru-96
-1.071 To 6.060 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 3.1874 MeV
n-Ru096.jeff3.3 Threshold 3.1874 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.08
1.04
1.00
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
44-Ru-96

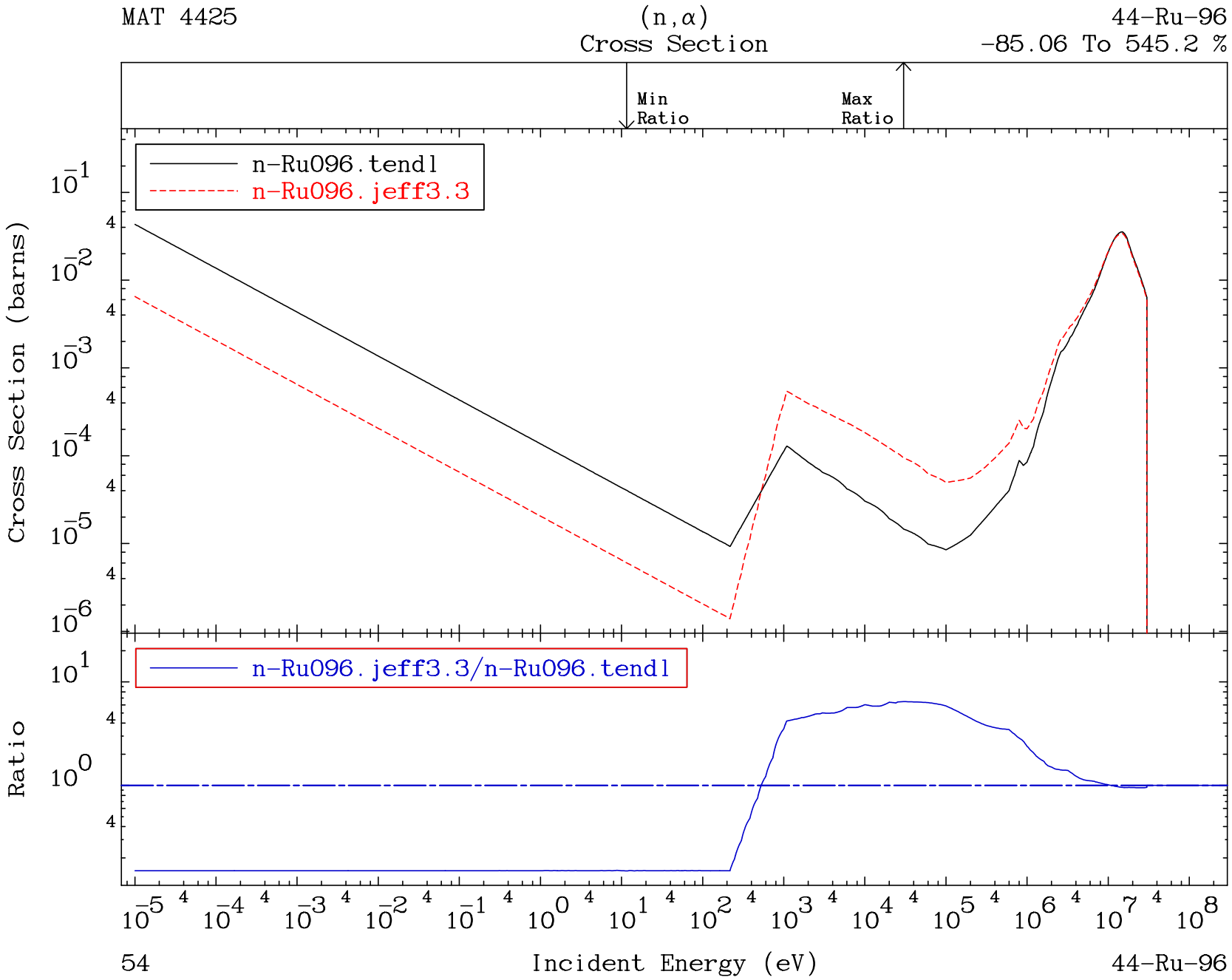

MAT 4425
(n,γ)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
49
Incident Energy (eV)
44-Ru-96

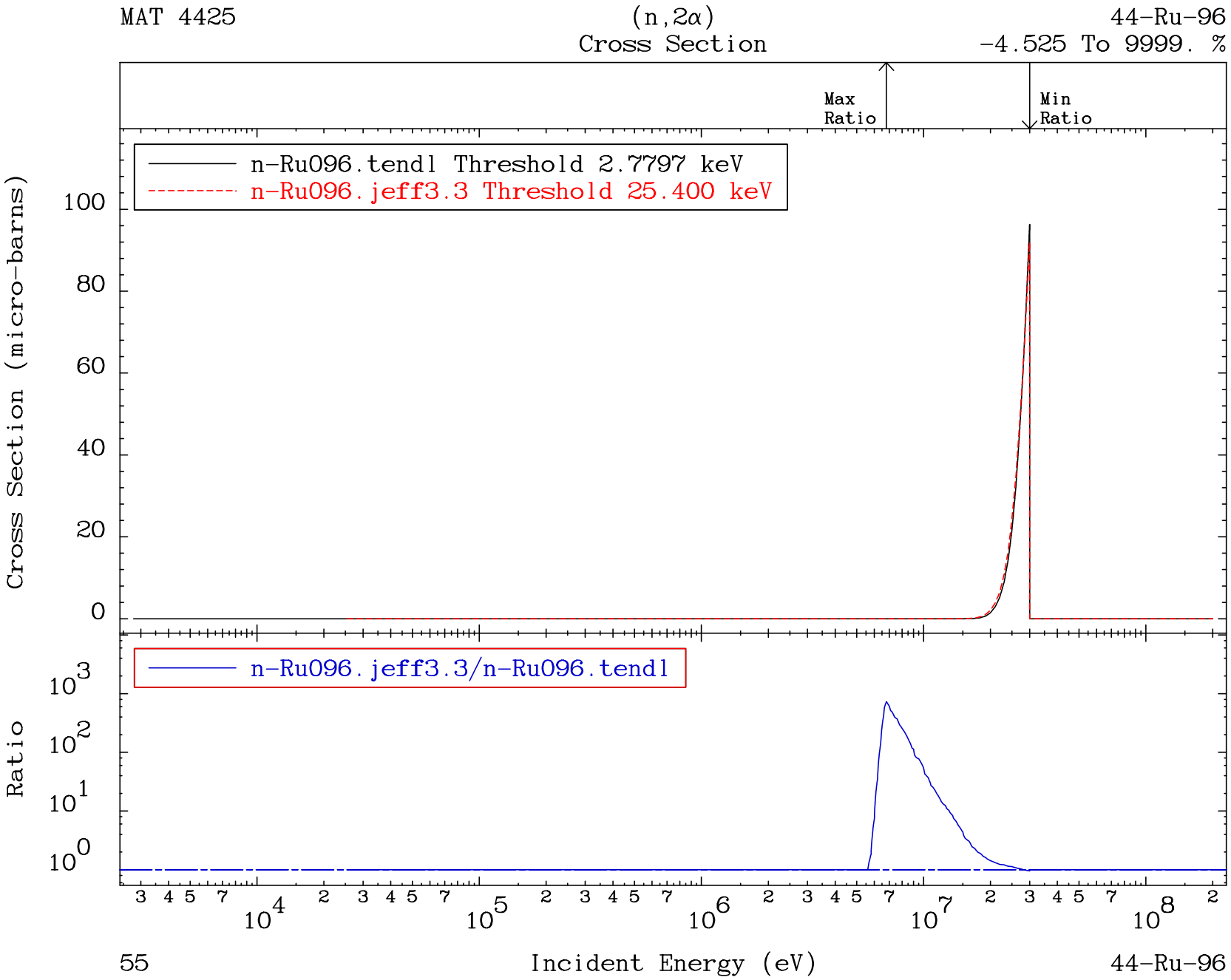

MAT 4425
(n,p)
Cross Section
44-Ru-96
-13.40 To 12.69 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.7797 keV
n-Ru096.jeff3.3 Threshold 25.400 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.1
1.0
0.9
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
50
Incident Energy (eV)
44-Ru-96

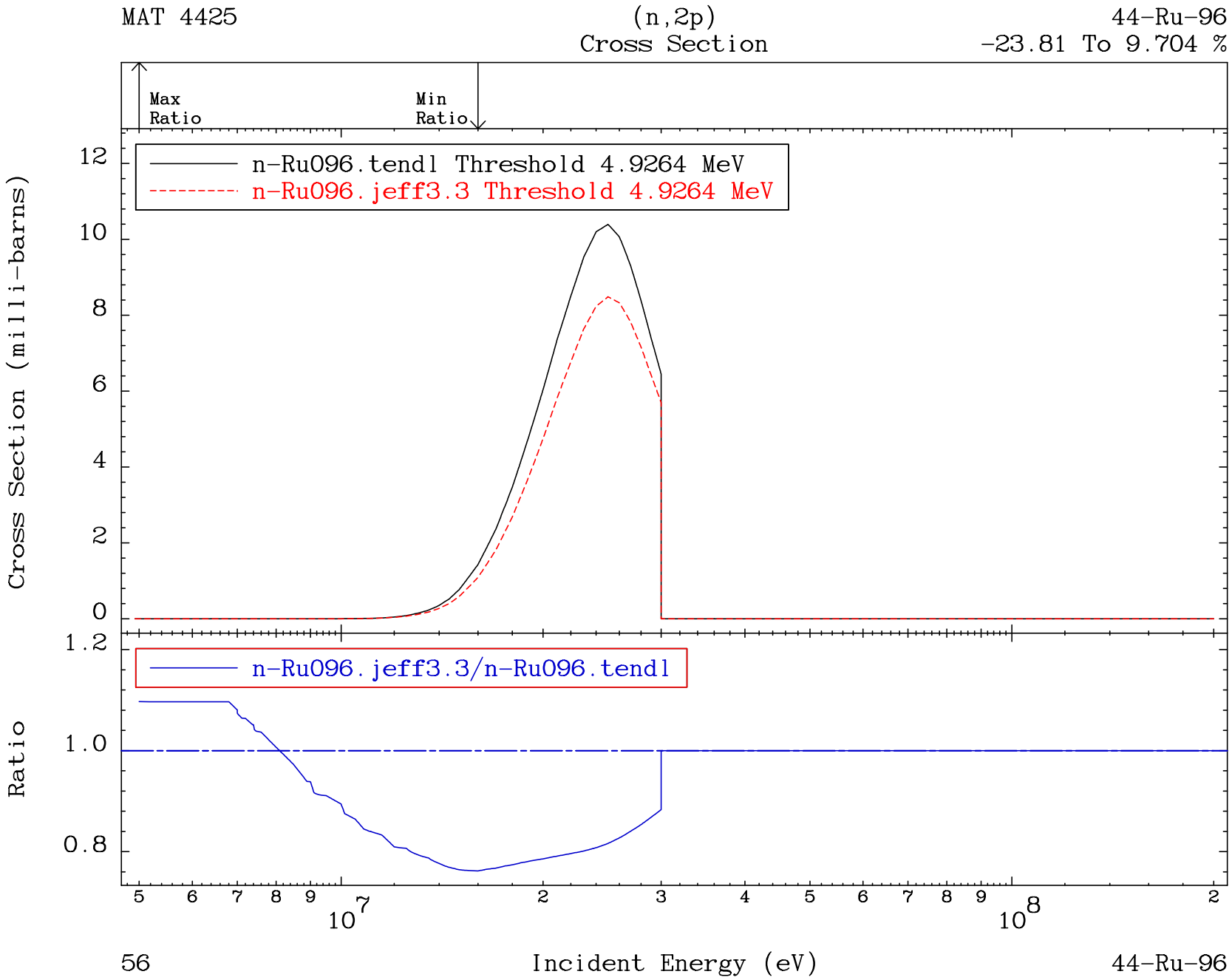

MAT 4425
(n,d)
Cross Section
44-Ru-96
-11.06 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 5.1773 MeV
n-Ru096.jeff3.3 Threshold 5.1773 MeV
Cross Section (milli-barns)
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
51
Incident Energy (eV)
44-Ru-96

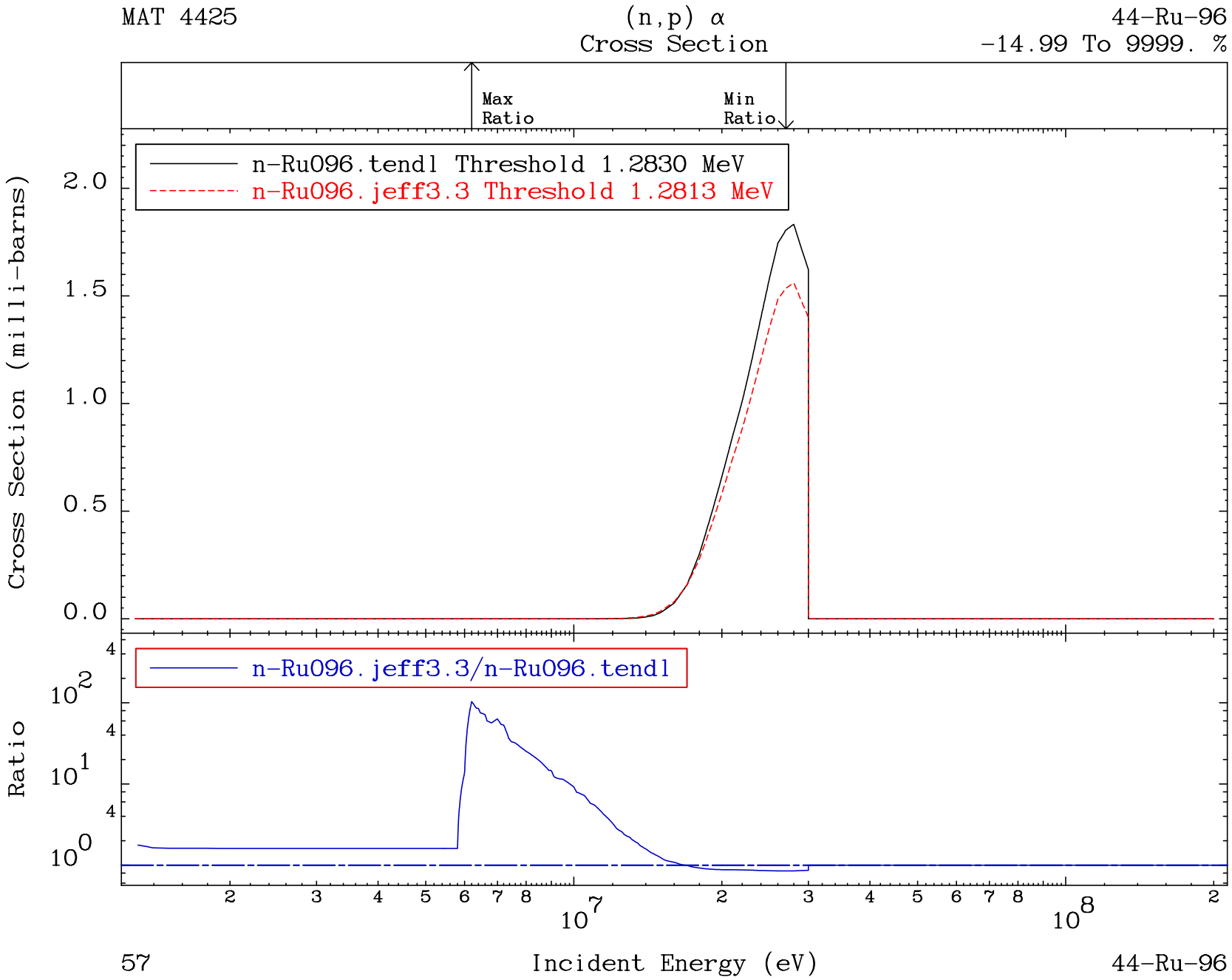

MAT 4425
(n,t)
Cross Section
44-Ru-96
-12.76 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 8.8931 MeV
n-Ru096.jeff3.3 Threshold 8.8931 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
9
2
3
4
5
6
7
8
9
2
10^7
10^8
52
Incident Energy (eV)
44-Ru-96

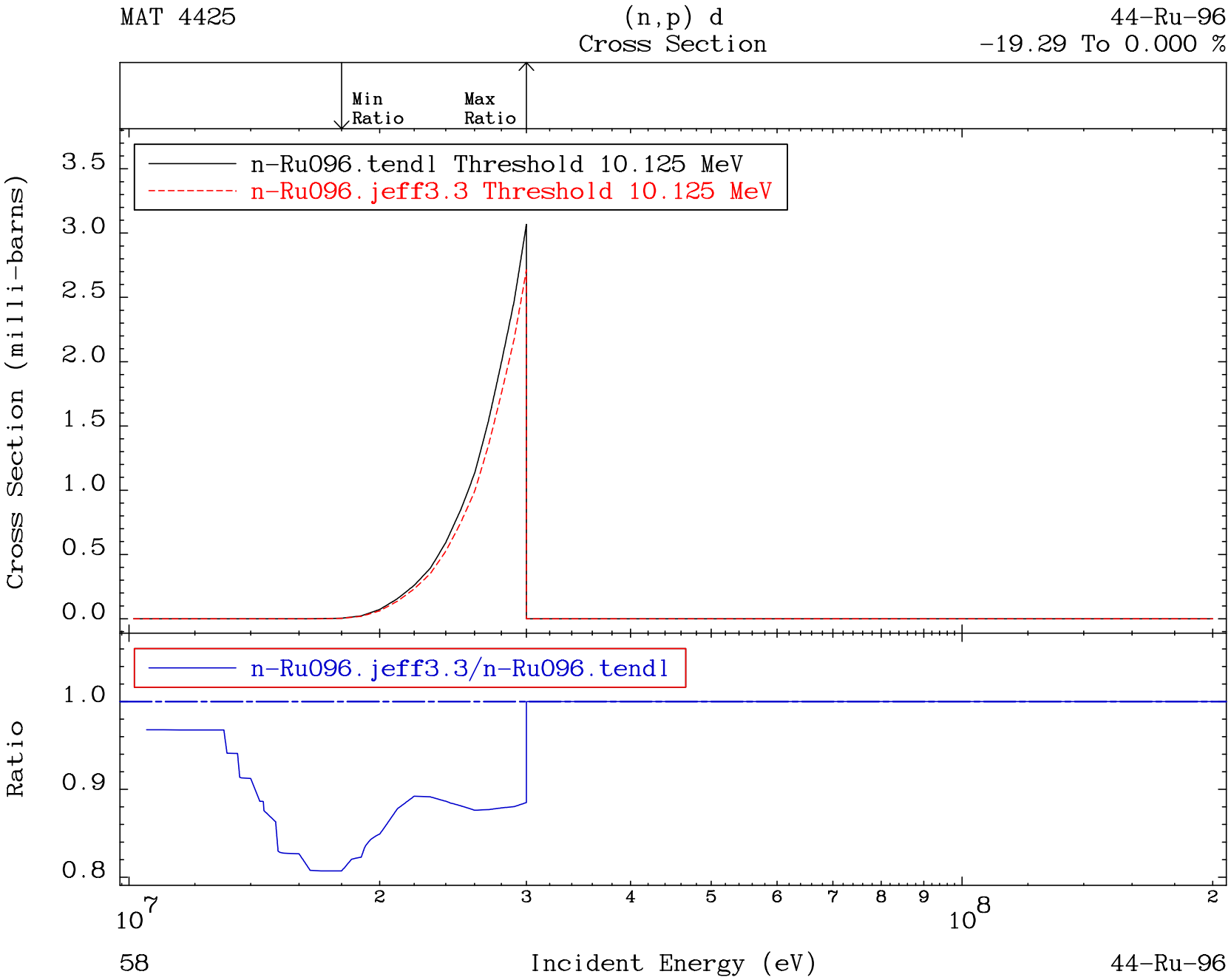

MAT 4425
(n,He-3)
Cross Section
44-Ru-96
-12.08 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 4.5738 MeV
n-Ru096.jeff3.3 Threshold 4.5738 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
44-Ru-96

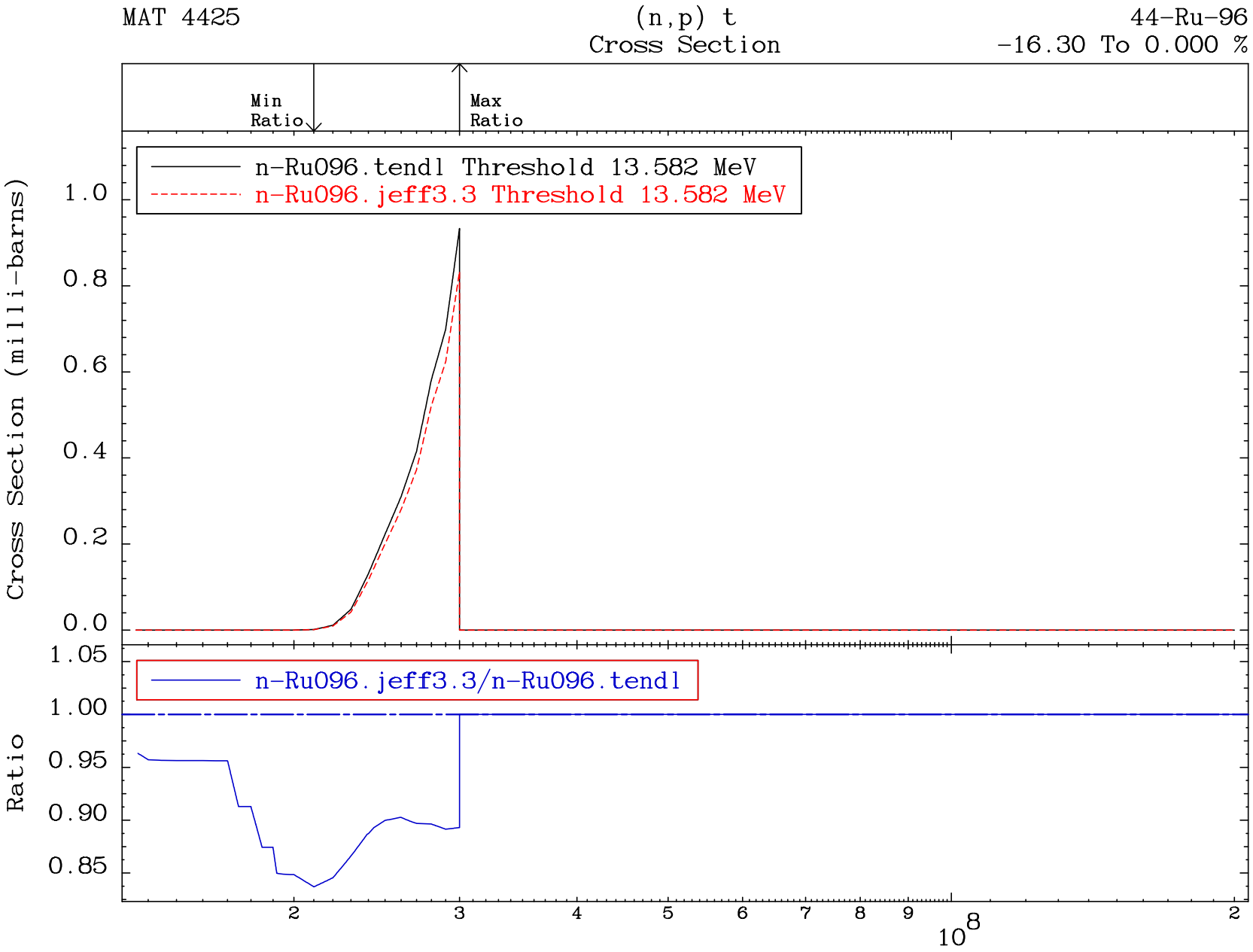

MAT 4425
(n,α)
Cross Section
44-Ru-96
-85.06 To 545.2 %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
54
Incident Energy (eV)
44-Ru-96

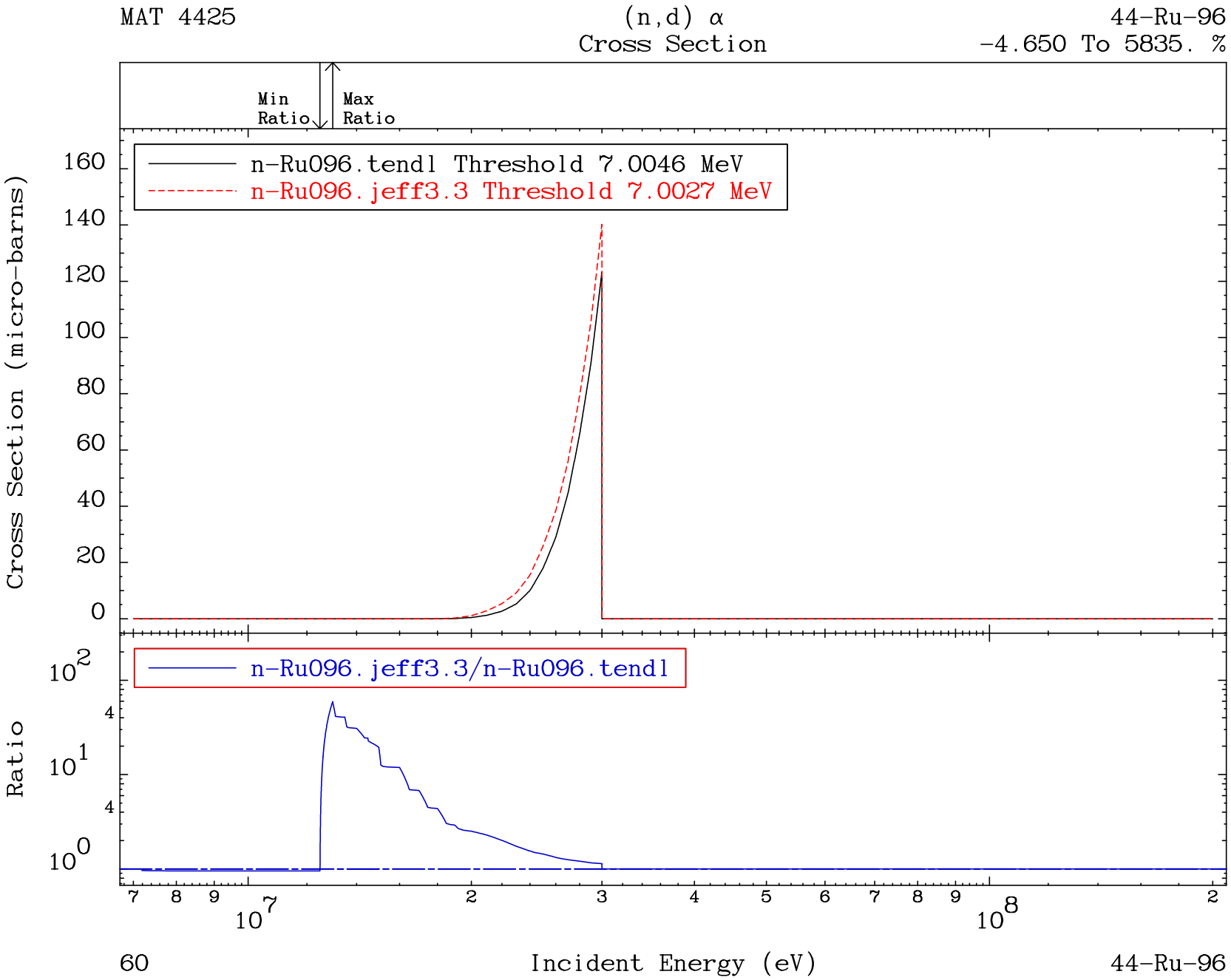

MAT 4425
(n,2α)
Cross Section
44-Ru-96
-4.525 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.7797 keV
n-Ru096.jeff3.3 Threshold 25.400 keV
Cross Section (micro-barns)
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^3
10^2
10^1
10^0
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
55
Incident Energy (eV)
44-Ru-96

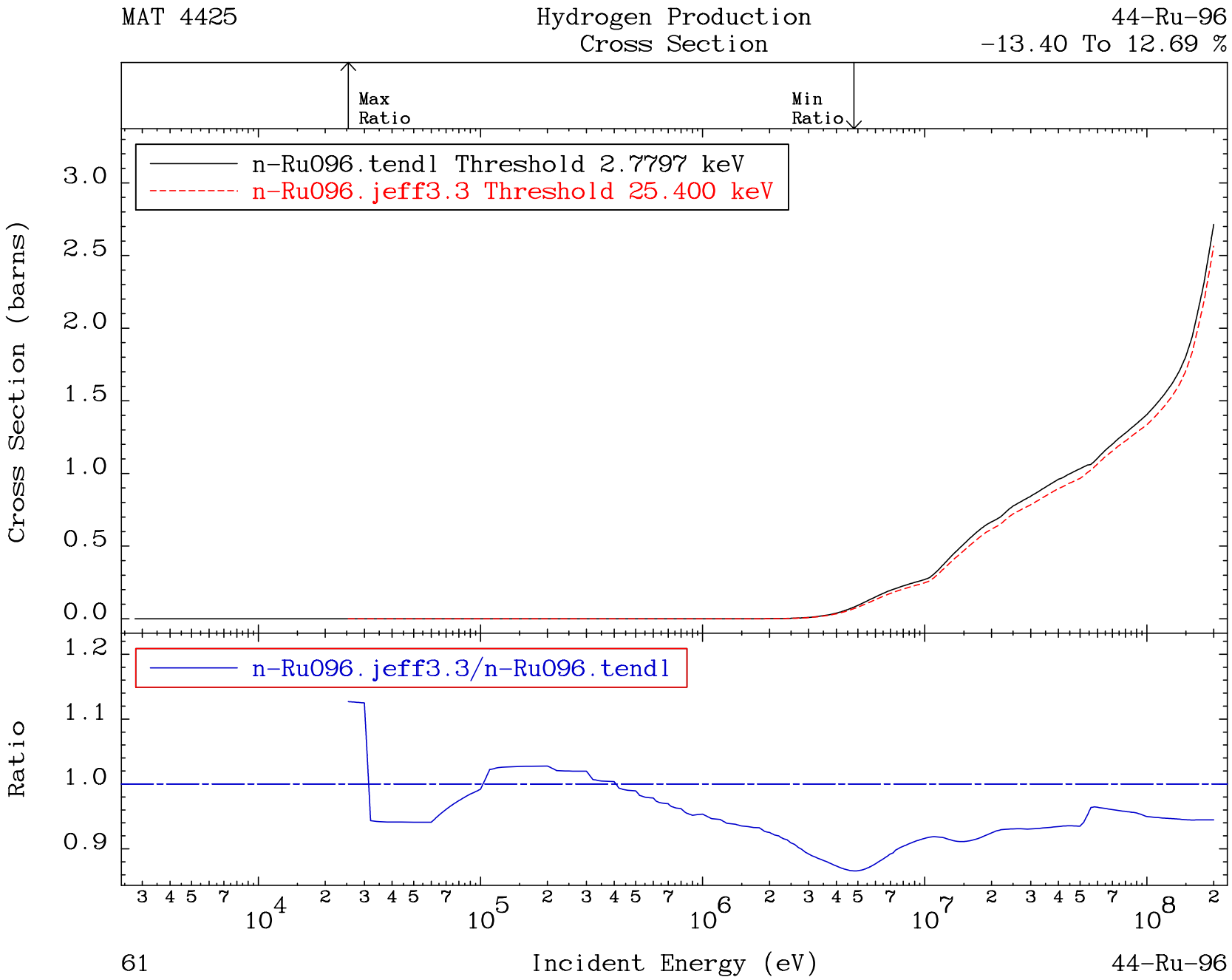

MAT 4425
(n,2p)
Cross Section
44-Ru-96
-23.81 To 9.704 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 4.9264 MeV
n-Ru096.jeff3.3 Threshold 4.9264 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.0
0.8
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
56
Incident Energy (eV)
44-Ru-96

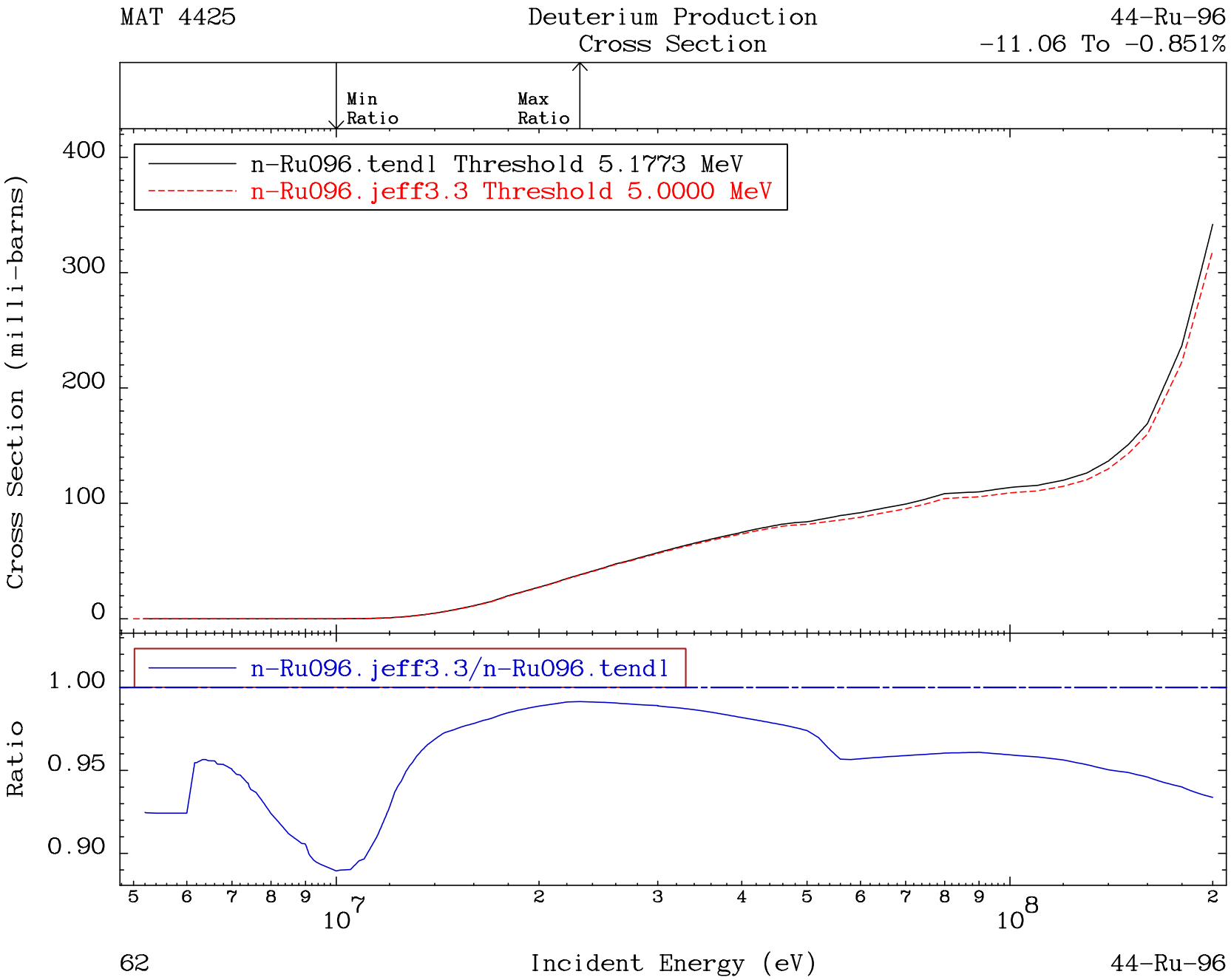

MAT 4425
(n,p) α
Cross Section
44-Ru-96
-14.99 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 1.2830 MeV
n-Ru096.jeff3.3 Threshold 1.2813 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
57
Incident Energy (eV)
44-Ru-96

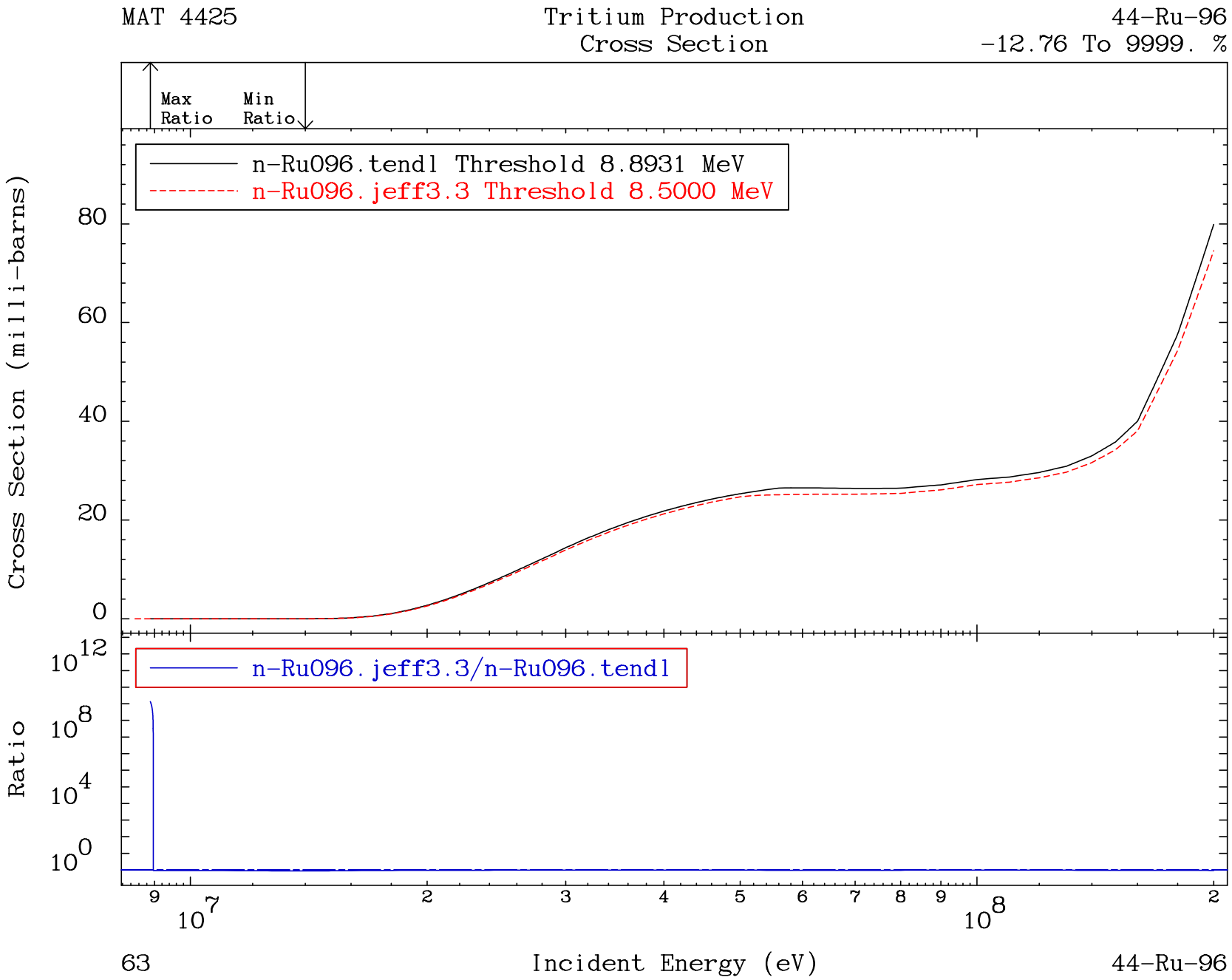

MAT 4425
(n,p) d
Cross Section
44-Ru-96
-19.29 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 10.125 MeV
n-Ru096.jeff3.3 Threshold 10.125 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.0
0.9
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
44-Ru-96

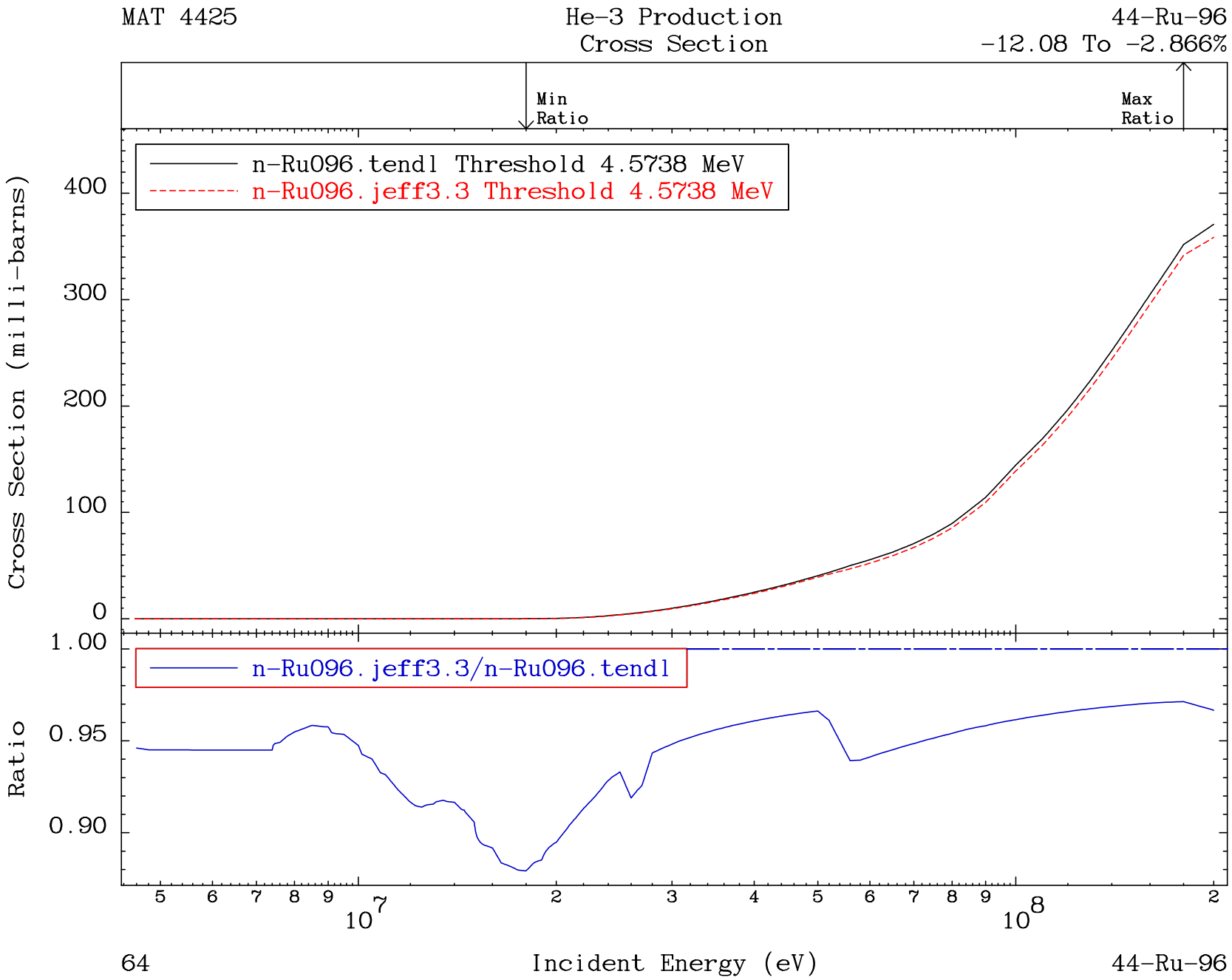

MAT 4425
(n,p) t
Cross Section
44-Ru-96
-16.30 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 13.582 MeV
n-Ru096.jeff3.3 Threshold 13.582 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
44-Ru-96

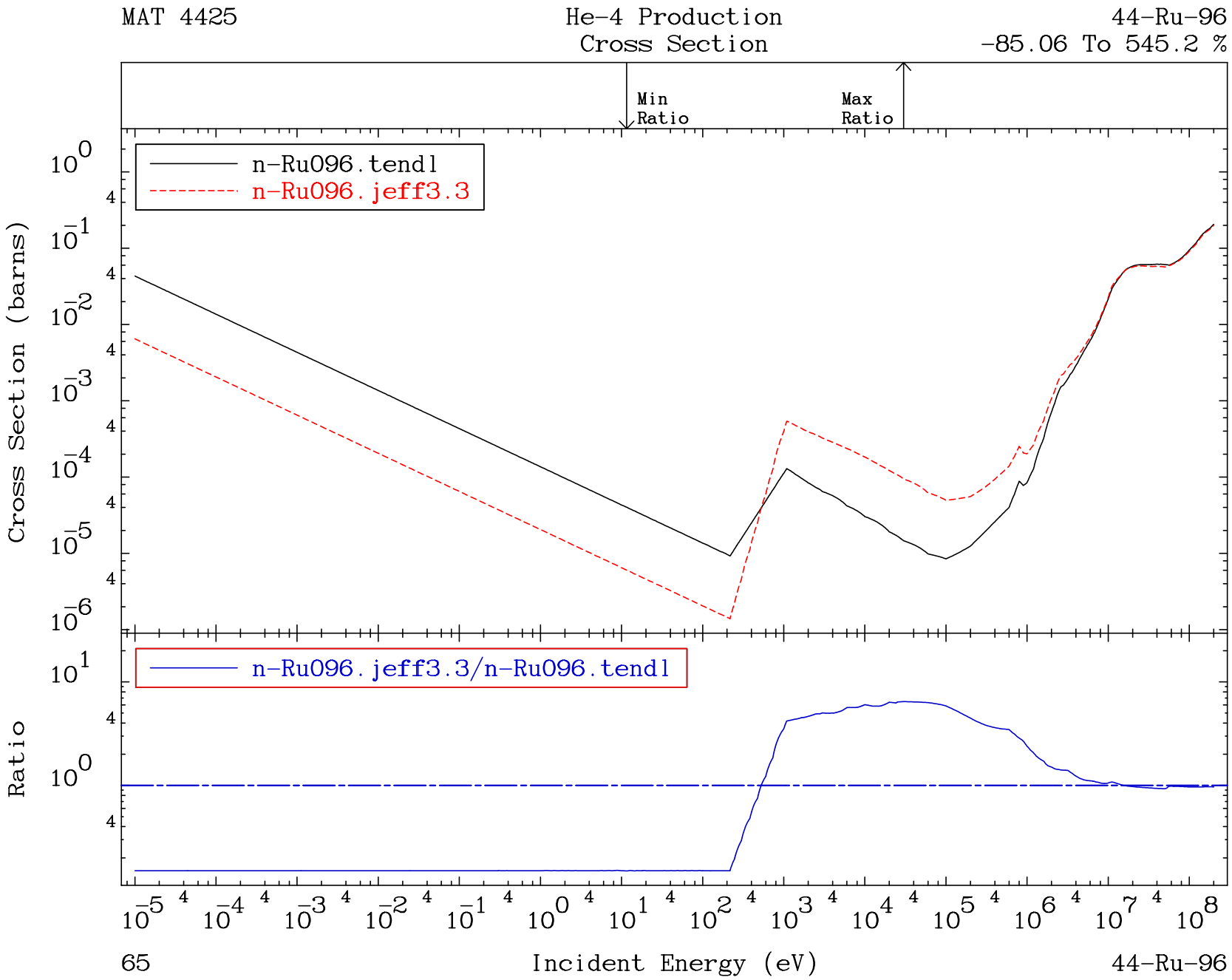

MAT 4425
(n,d) α
Cross Section
44-Ru-96
-4.650 To 5835. %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 7.0046 MeV
n-Ru096.jeff3.3 Threshold 7.0027 MeV
Cross Section (micro-barns)
160
140
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
10^1
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
60
Incident Energy (eV)
44-Ru-96

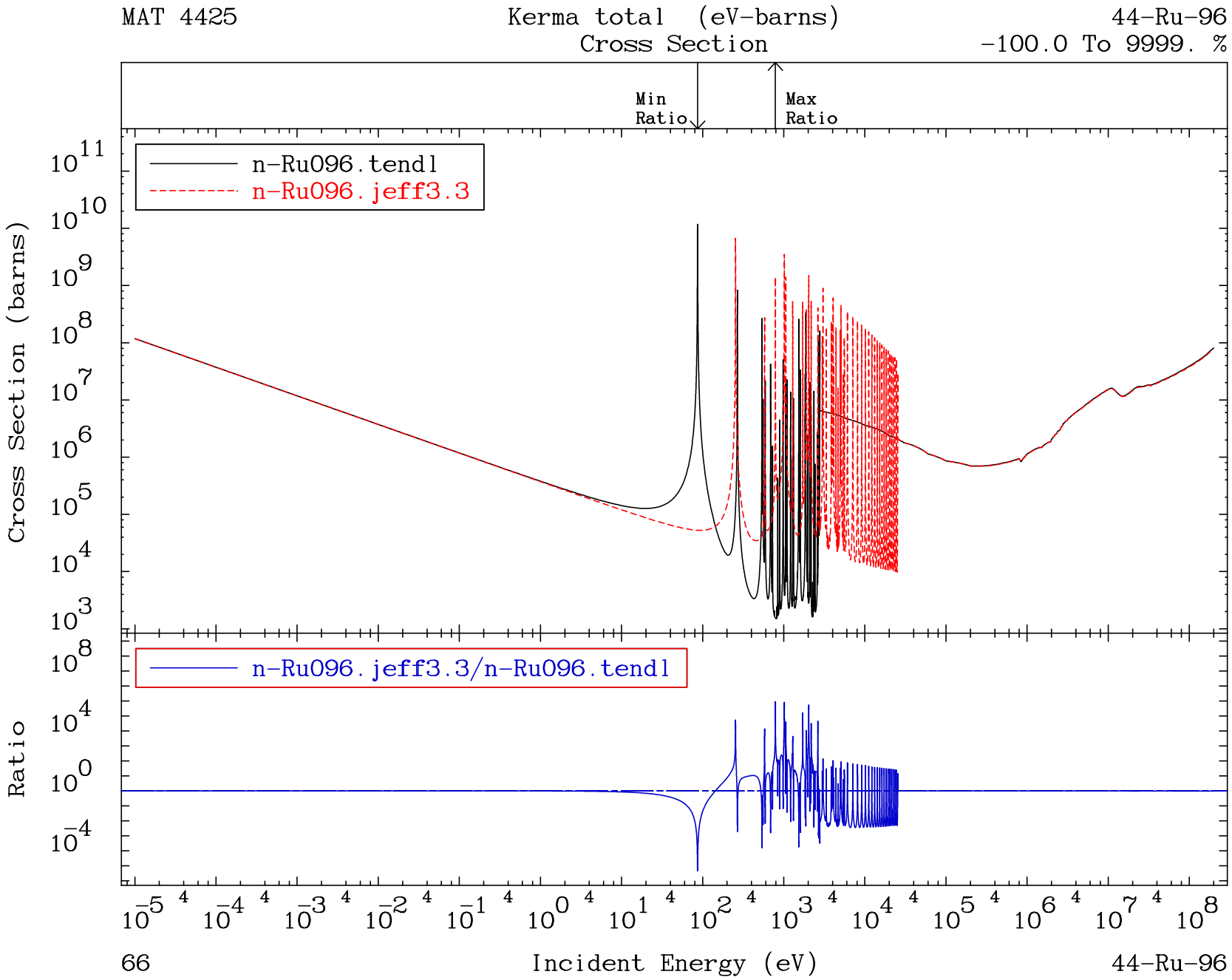

MAT 4425
Hydrogen Production
Cross Section
44-Ru-96
-13.40 To 12.69 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 2.7797 keV
n-Ru096.jeff3.3 Threshold 25.400 keV
Cross Section (barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.1
1.0
0.9
3 4 5 7 10^4 2 3 4 5 7 10^5 2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
61
Incident Energy (eV)
44-Ru-96

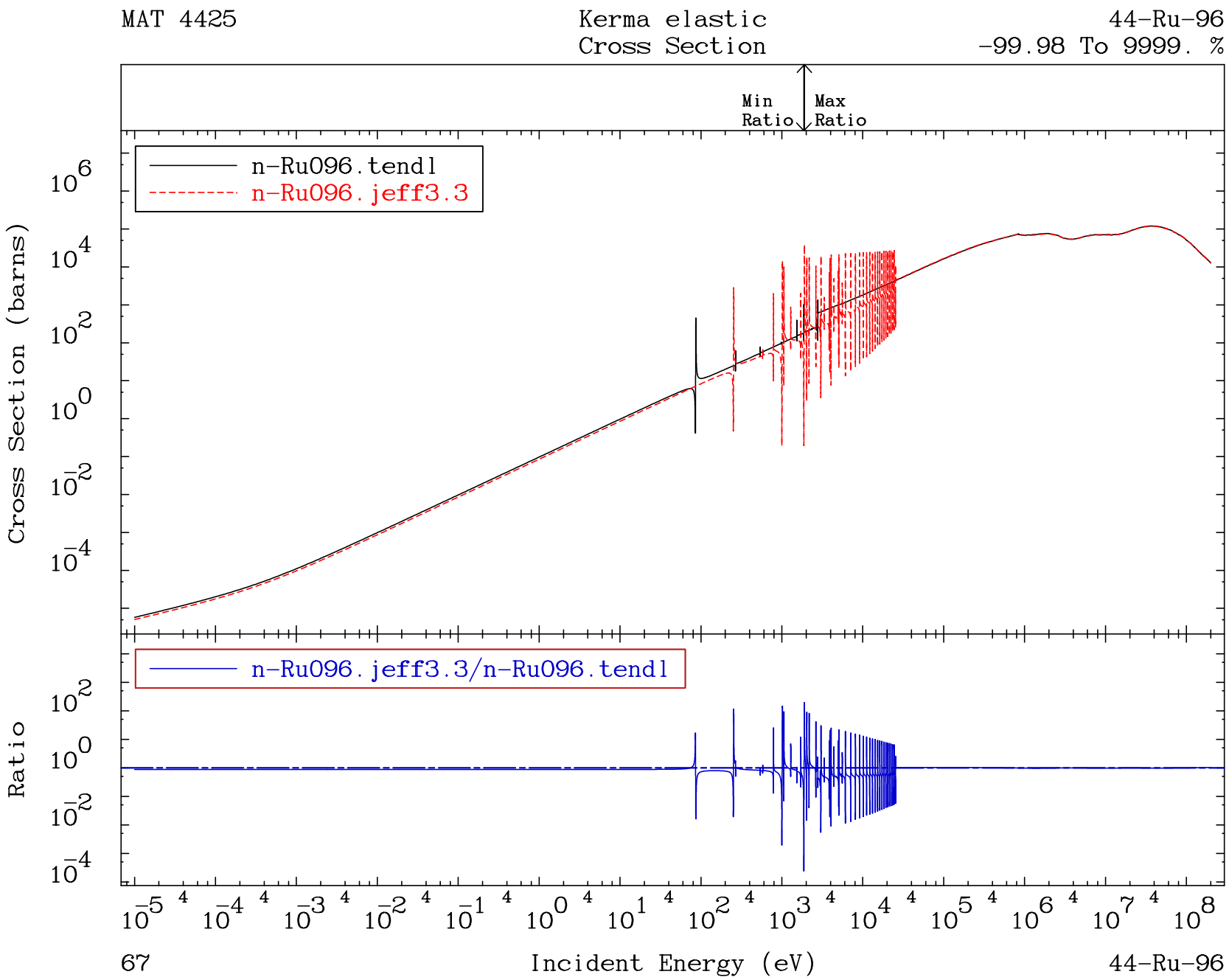

MAT 4425
Deuterium Production
Cross Section
44-Ru-96
-11.06 To -0.851%
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 5.1773 MeV
n-Ru096.jeff3.3 Threshold 5.0000 MeV
Cross Section (milli-barns)
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
44-Ru-96

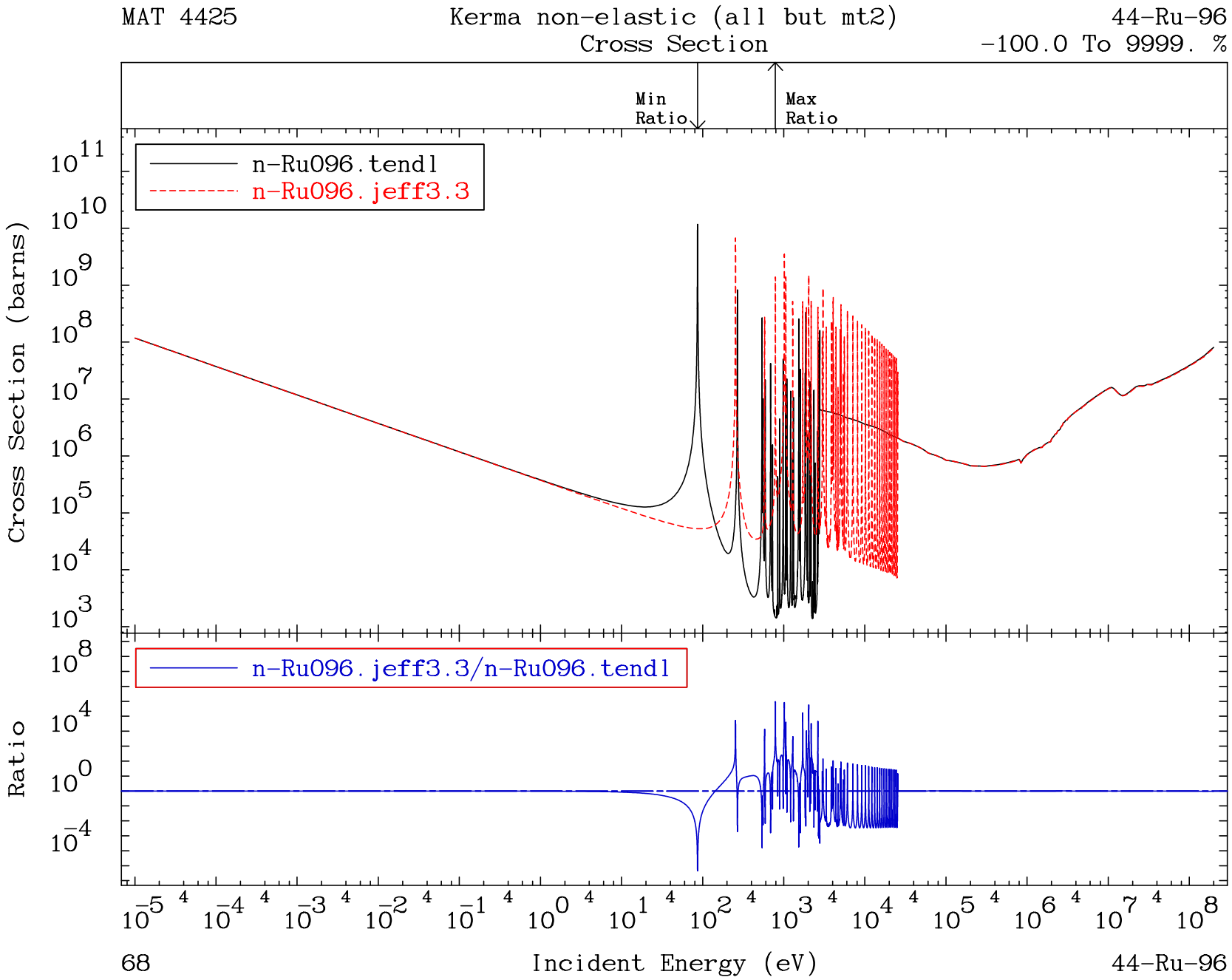

MAT 4425
Tritium Production
Cross Section
44-Ru-96
-12.76 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 8.8931 MeV
n-Ru096.jeff3.3 Threshold 8.5000 MeV
Cross Section (milli-barns)
0
20
40
60
80
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
9
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
63
Incident Energy (eV)
44-Ru-96

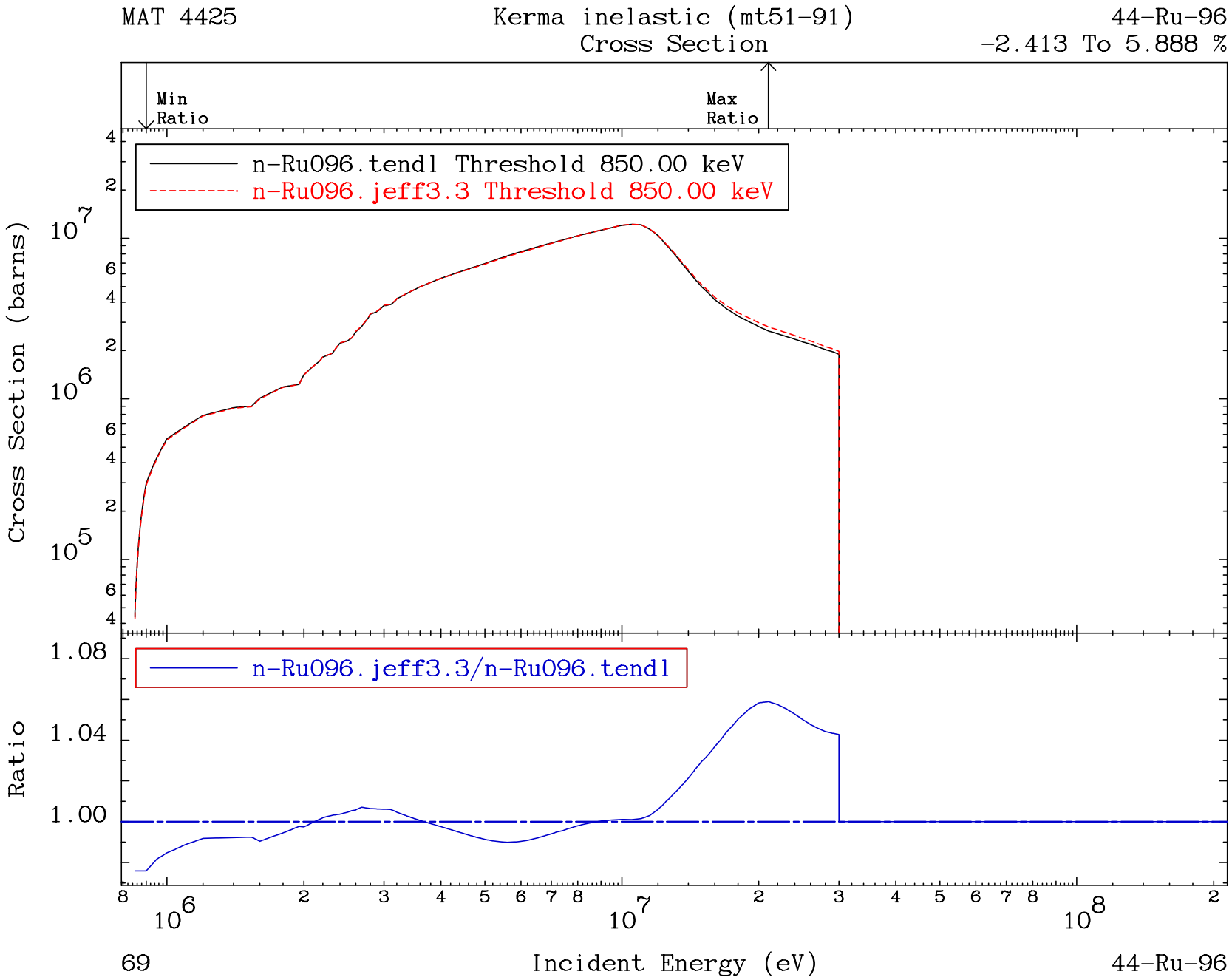

MAT 4425
He-3 Production
Cross Section
44-Ru-96
-12.08 To -2.866%
Min
Ratio
Max
Ratio
n-Ru096.tendl Threshold 4.5738 MeV
n-Ru096.jeff3.3 Threshold 4.5738 MeV
Cross Section (milli-barns)
400
300
200
100
0
1.00
0.95
0.90
Ratio
n-Ru096.jeff3.3/n-Ru096.tendl
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
64
Incident Energy (eV)
44-Ru-96

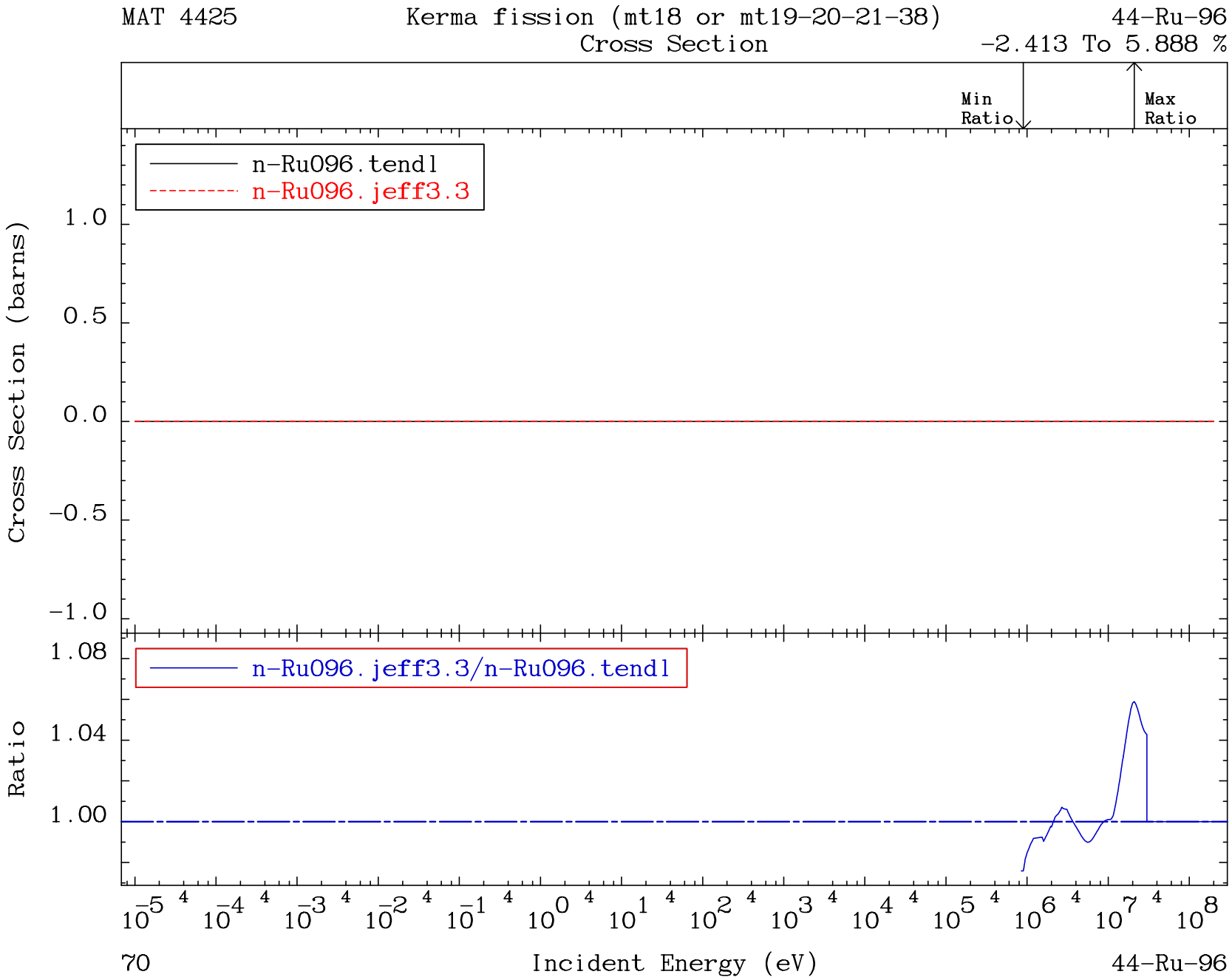

MAT 4425
He-4 Production
Cross Section
44-Ru-96
-85.06 To 545.2 %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
65
44-Ru-96

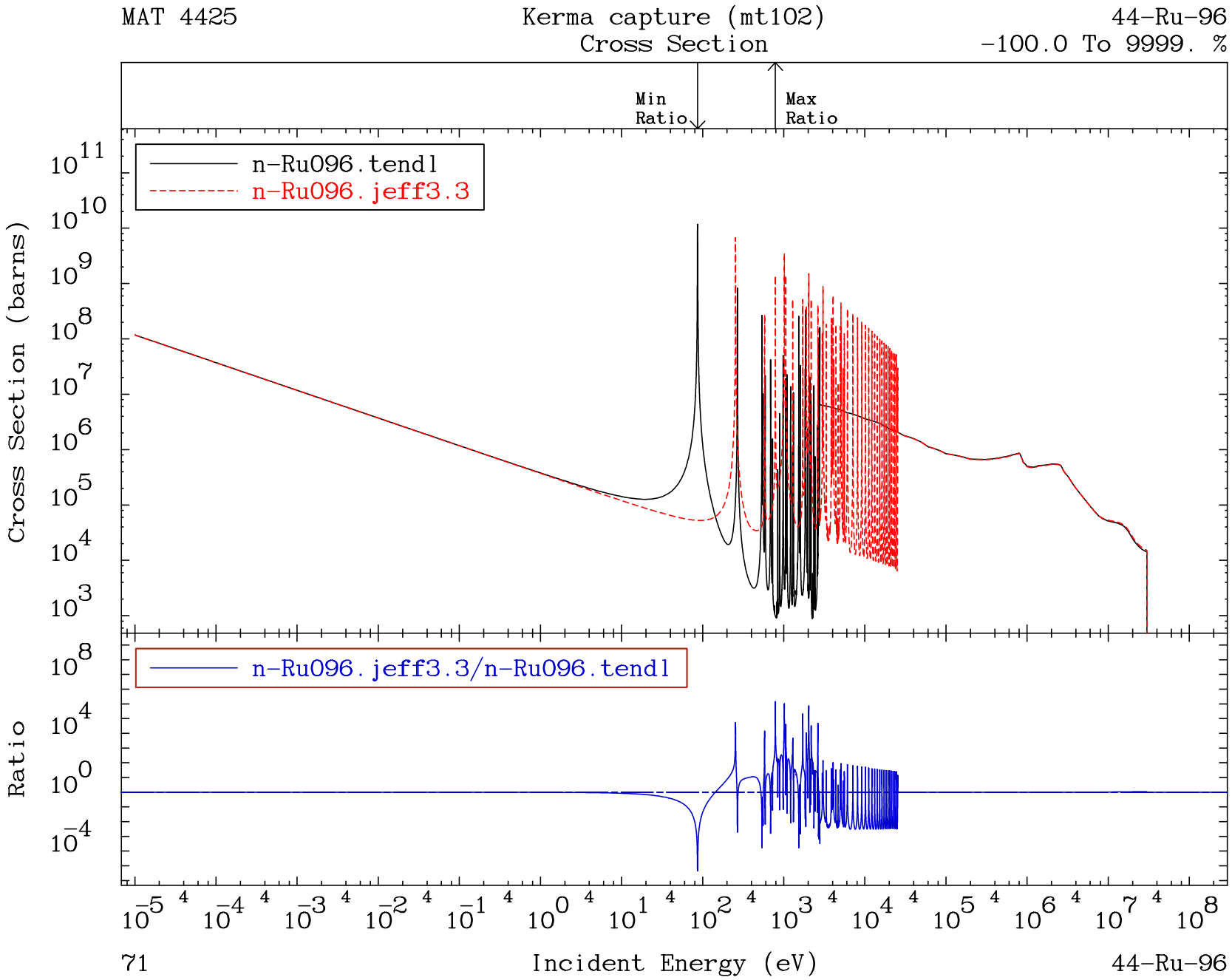

MAT 4425
Kerma total (eV-barns)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
66
Incident Energy (eV)
44-Ru-96

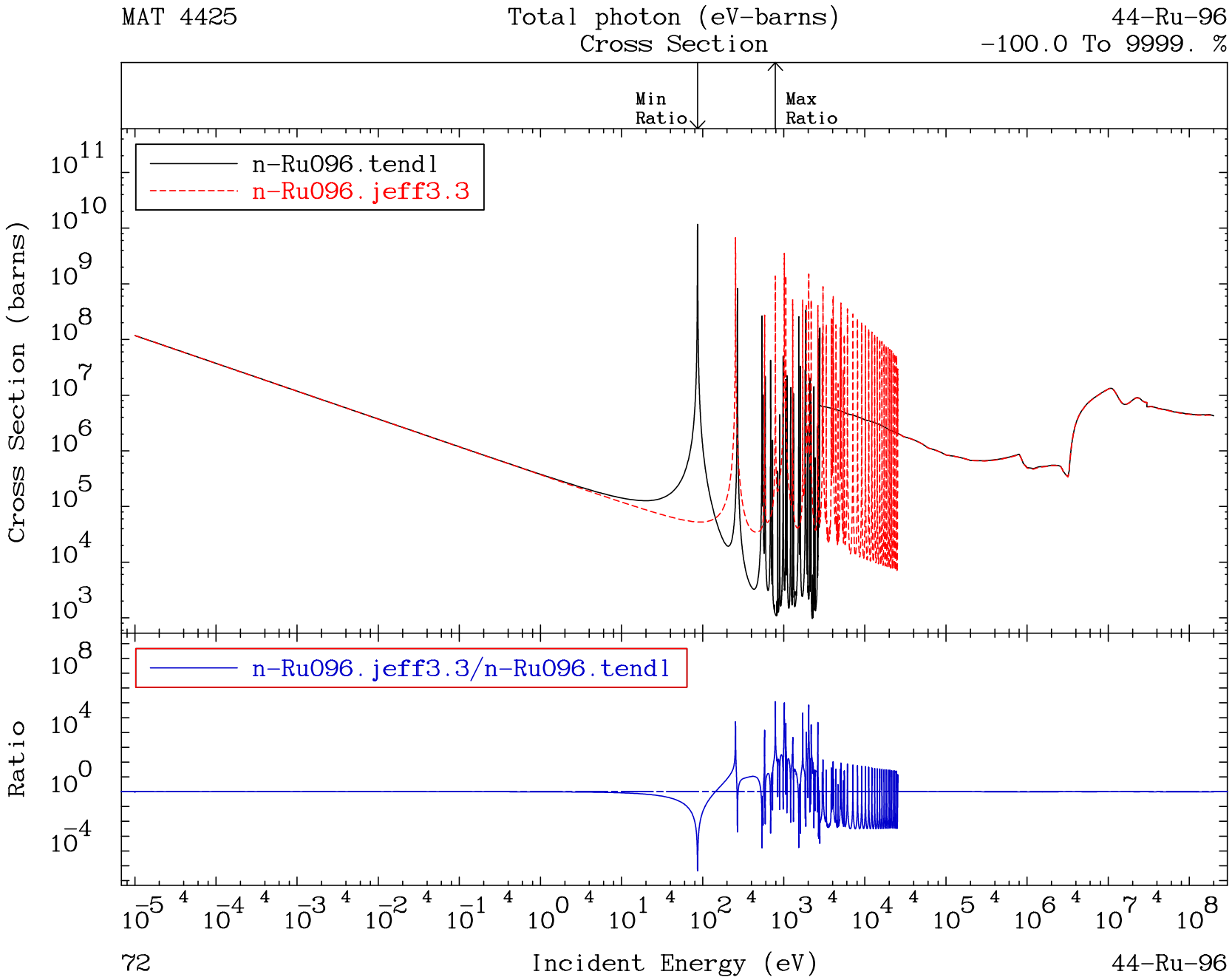

MAT 4425
Kerma elastic
Cross Section
44-Ru-96
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
67
44-Ru-96

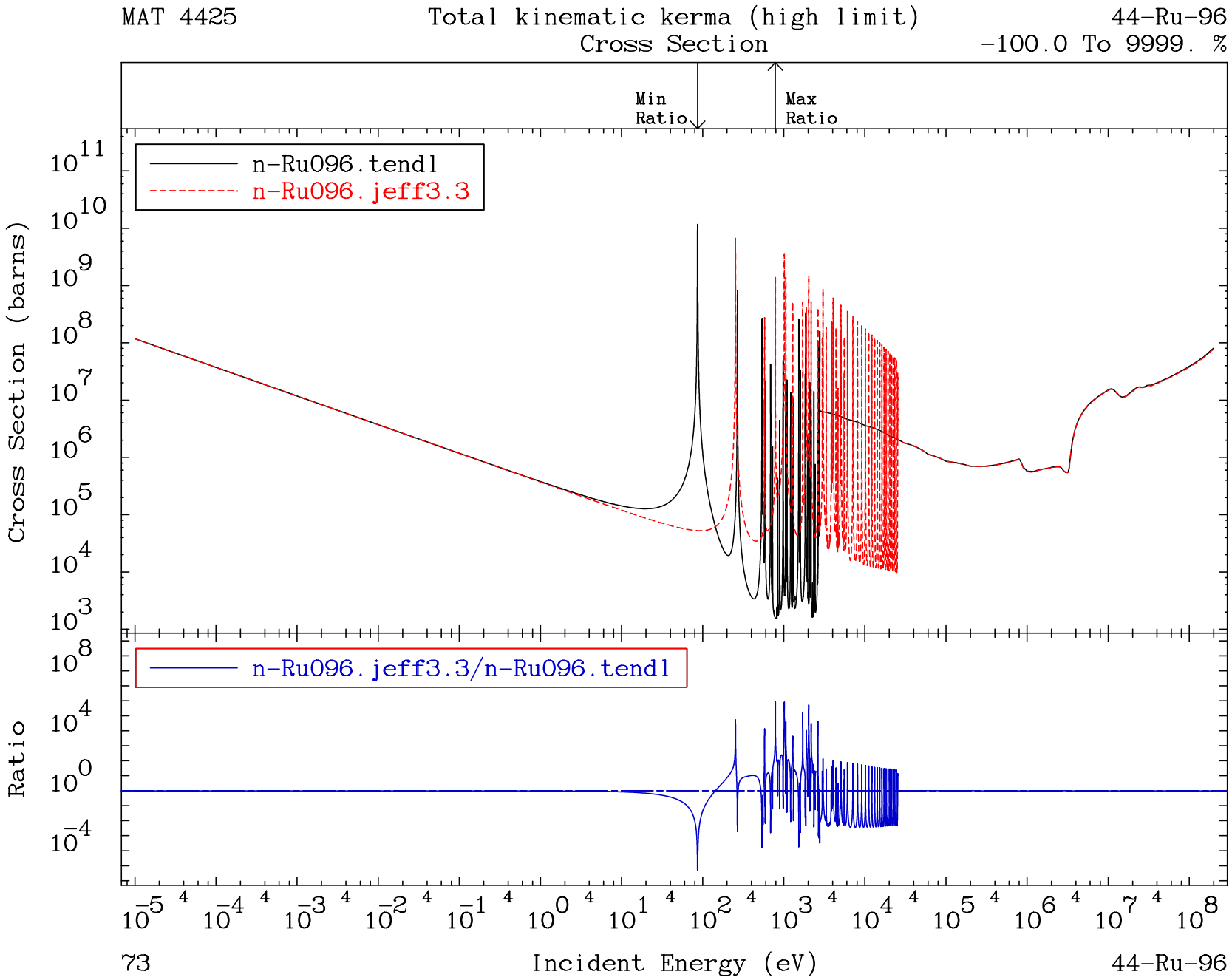

MAT 4425
Kerma non-elastic (all but mt2)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
68
Incident Energy (eV)
44-Ru-96

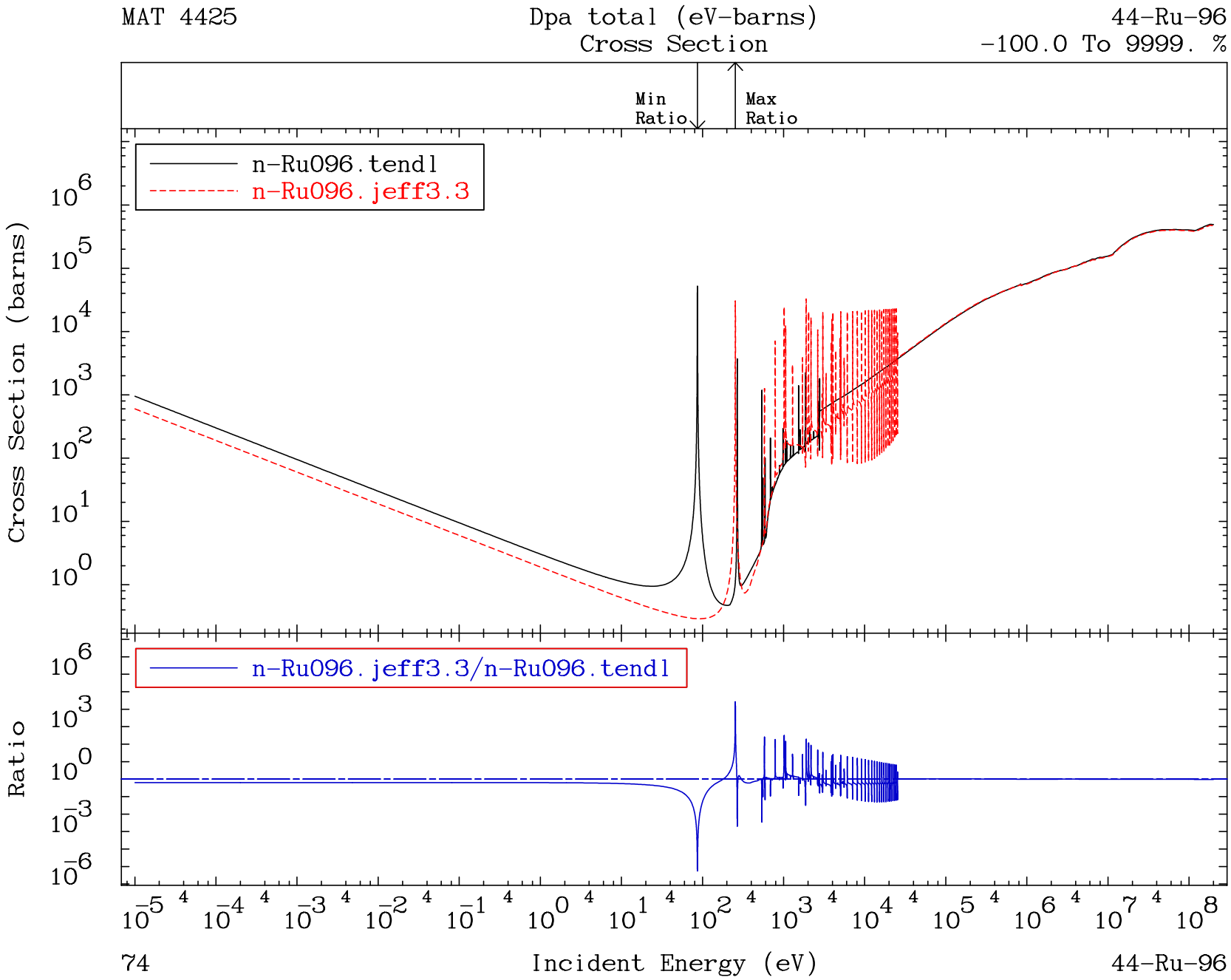

MAT 4425
Kerma inelastic (mt51-91)
Cross Section
44-Ru-96
-2.413 To 5.888 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 850.00 keV
n-Ru096.jeff3.3 Threshold 850.00 keV
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
69
44-Ru-96

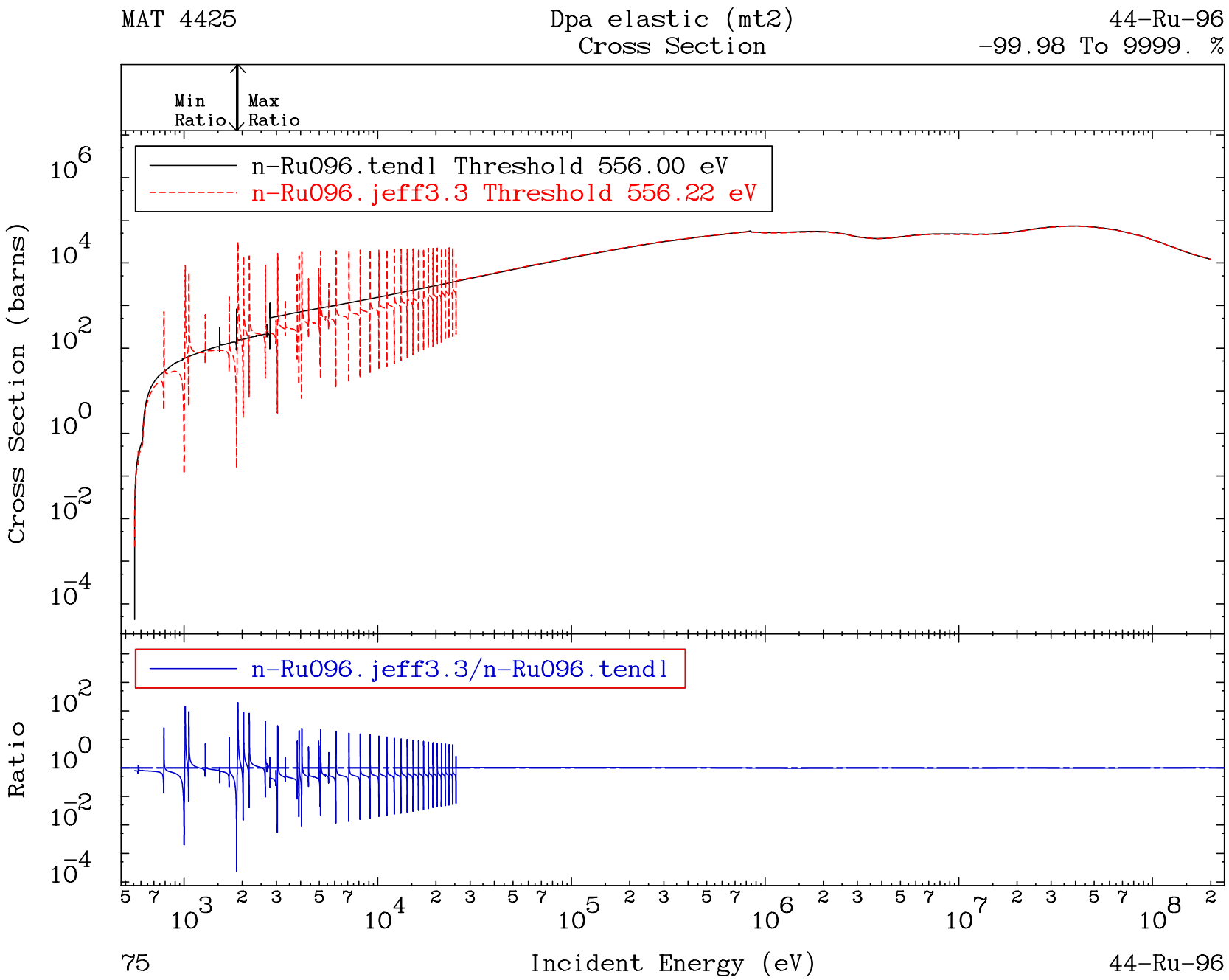

MAT 4425
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
44-Ru-96
-2.413 To 5.888 %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.08
1.04
1.00
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
70
Incident Energy (eV)
44-Ru-96

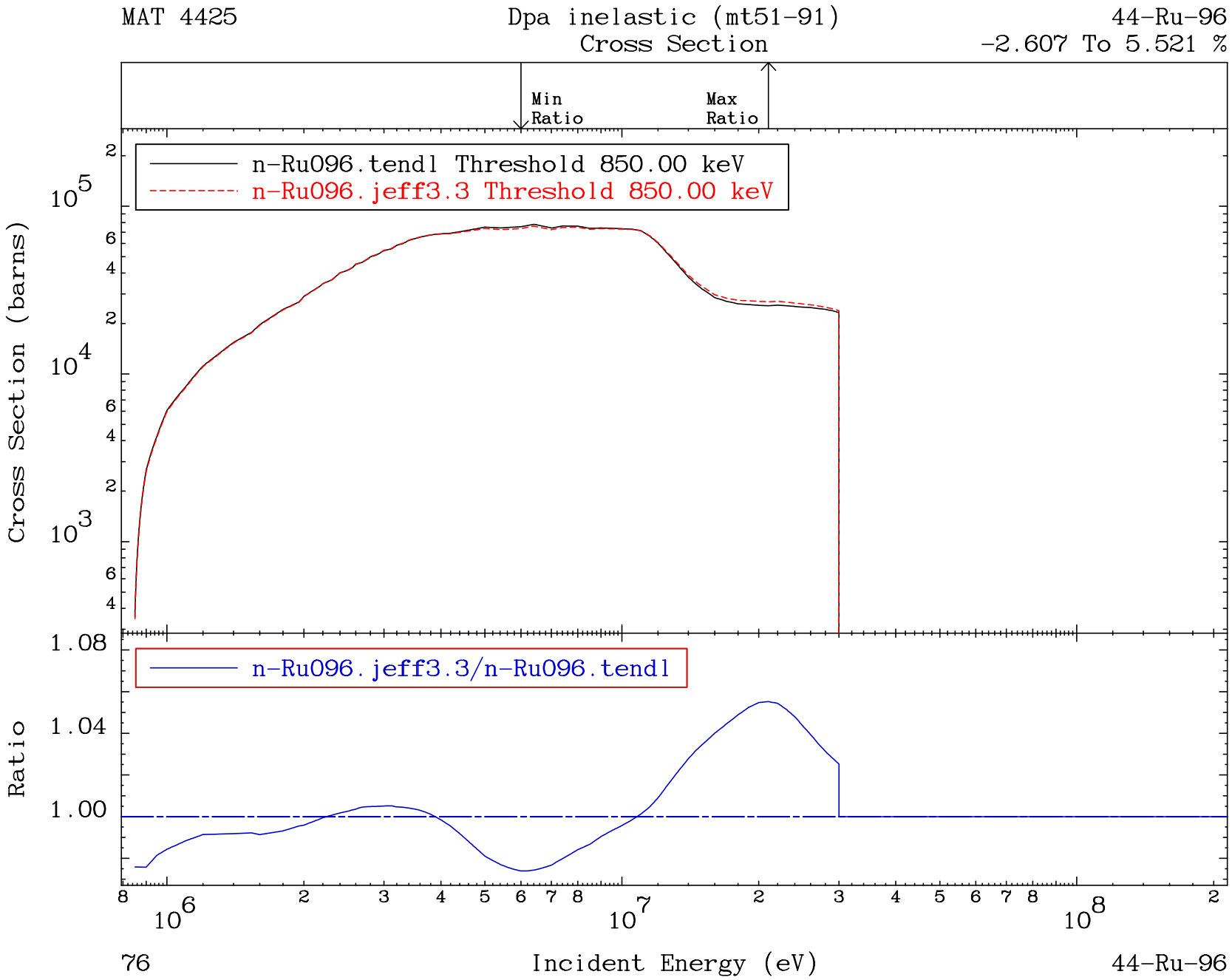

MAT 4425
Kerma capture (mt102)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
71
44-Ru-96

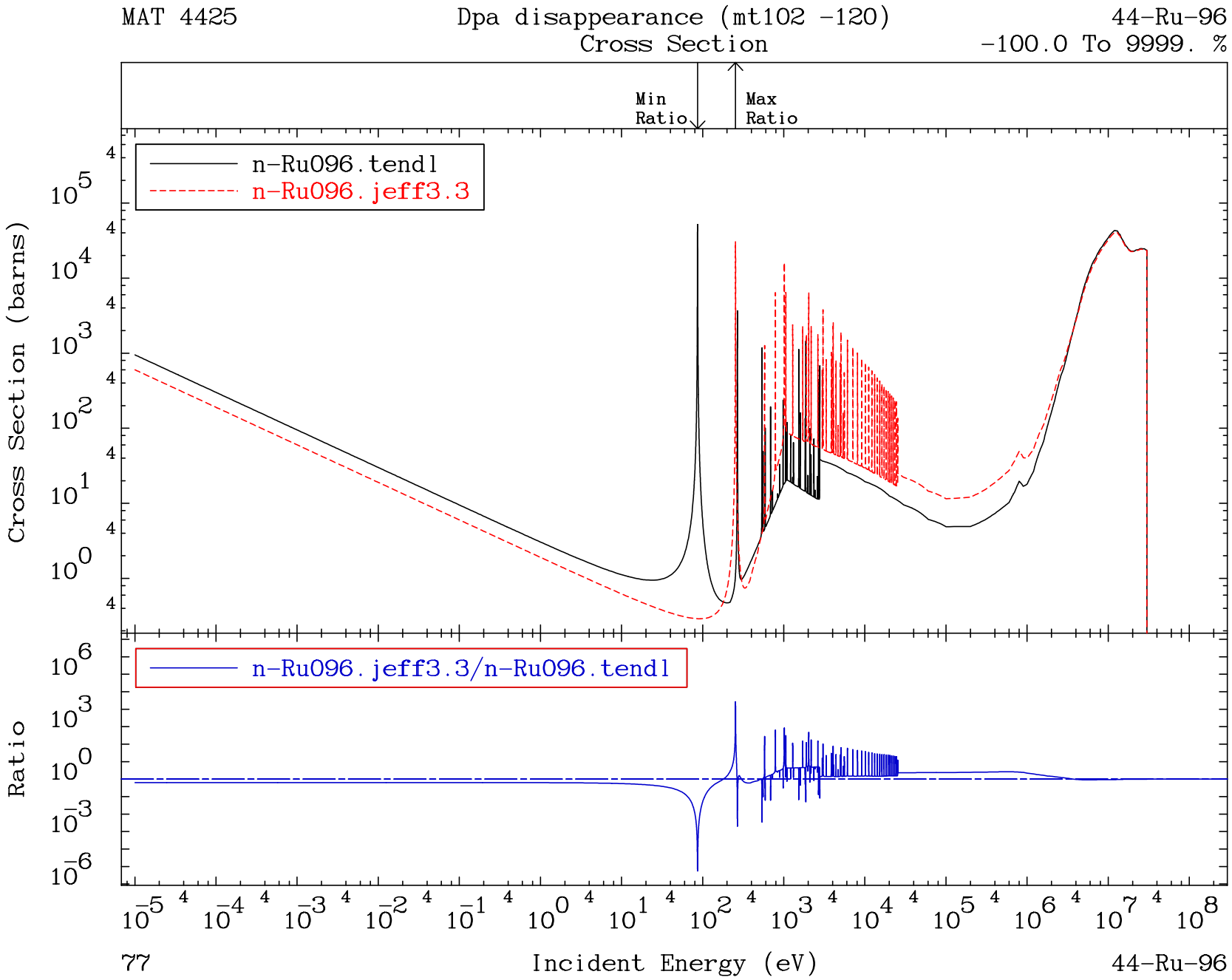

MAT 4425
Total photon (eV-barns)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
72
44-Ru-96

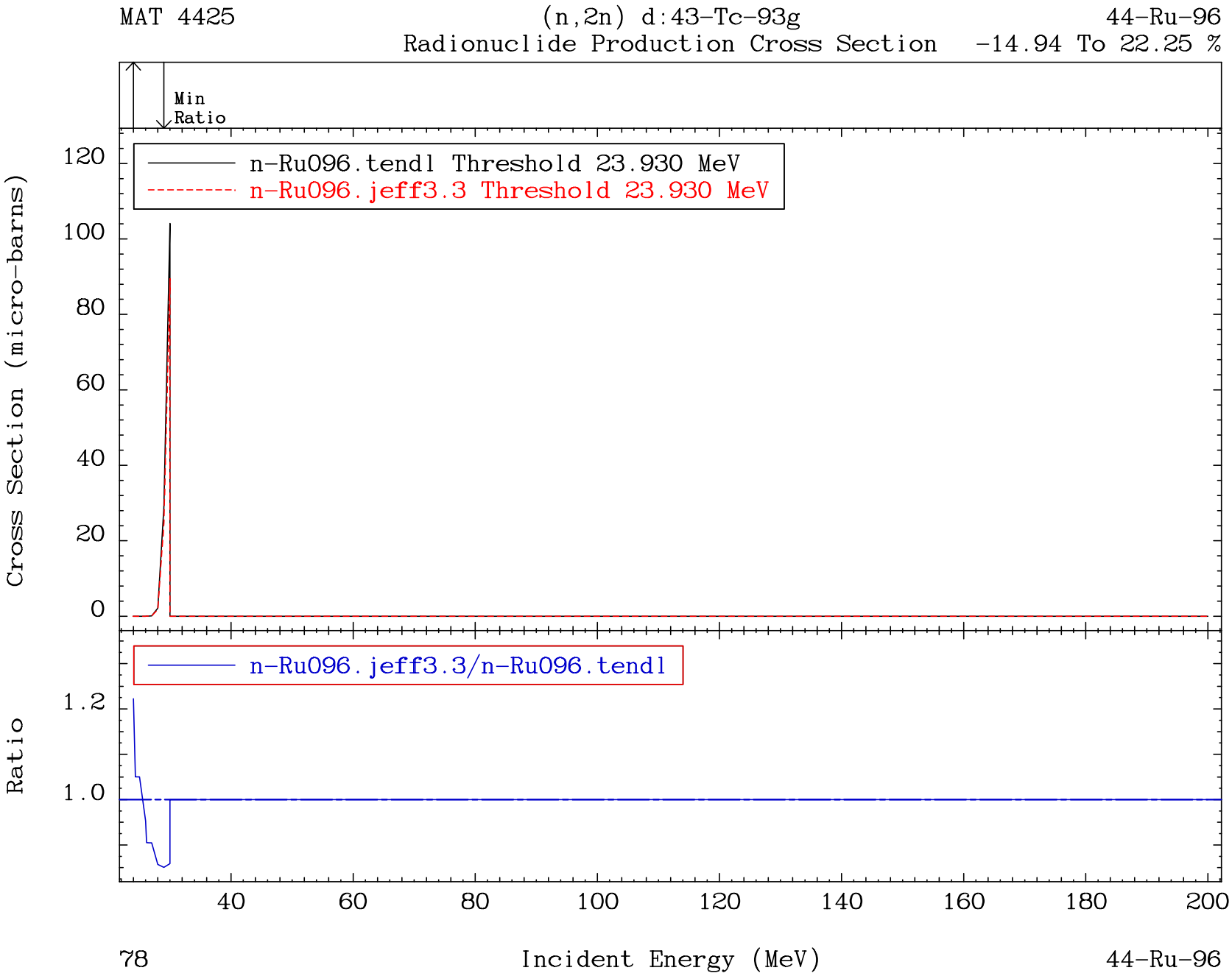

MAT 4425
Total kinematic kerma (high limit)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
73
44-Ru-96

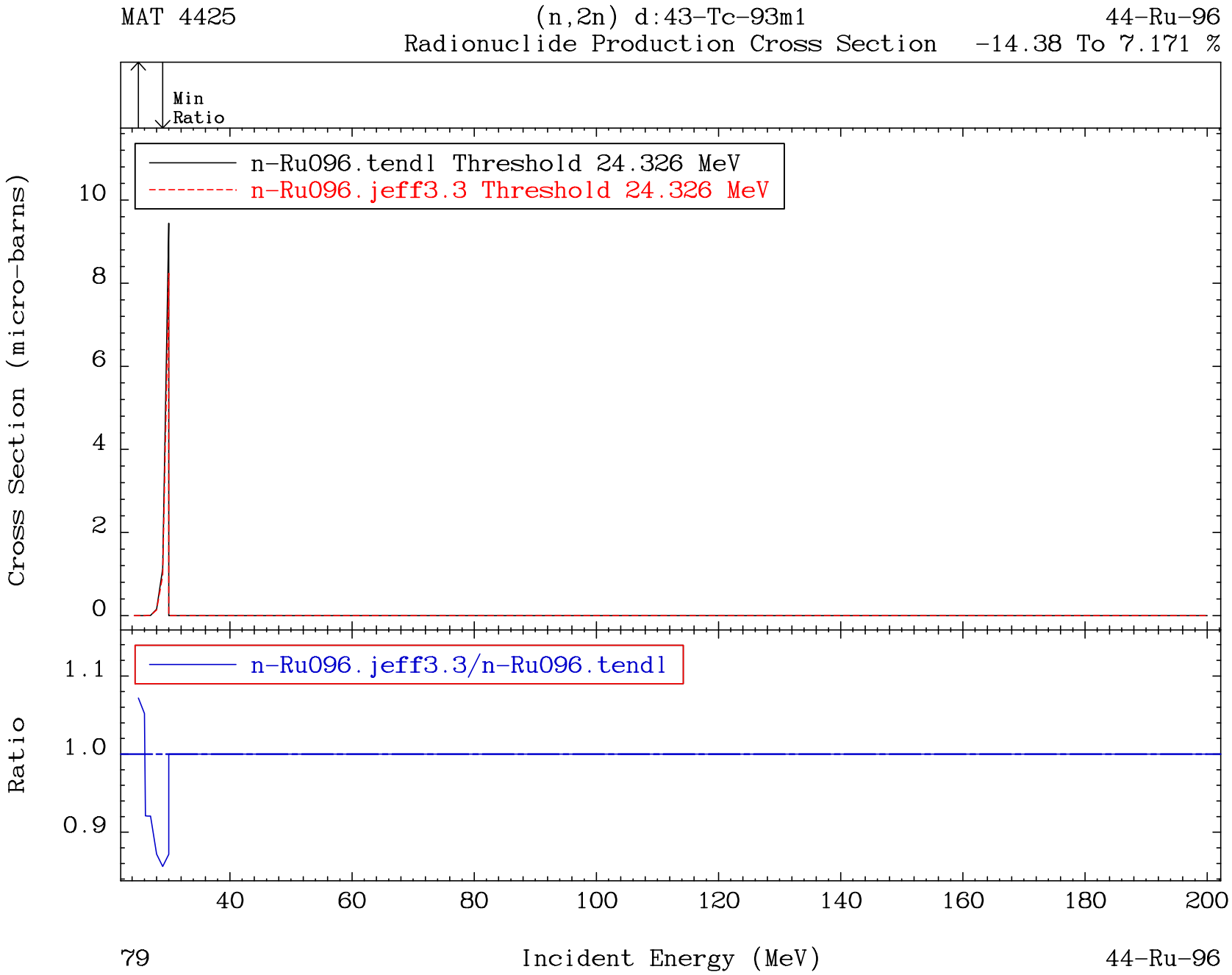

MAT 4425
Dpa total (eV-barns)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
74
44-Ru-96

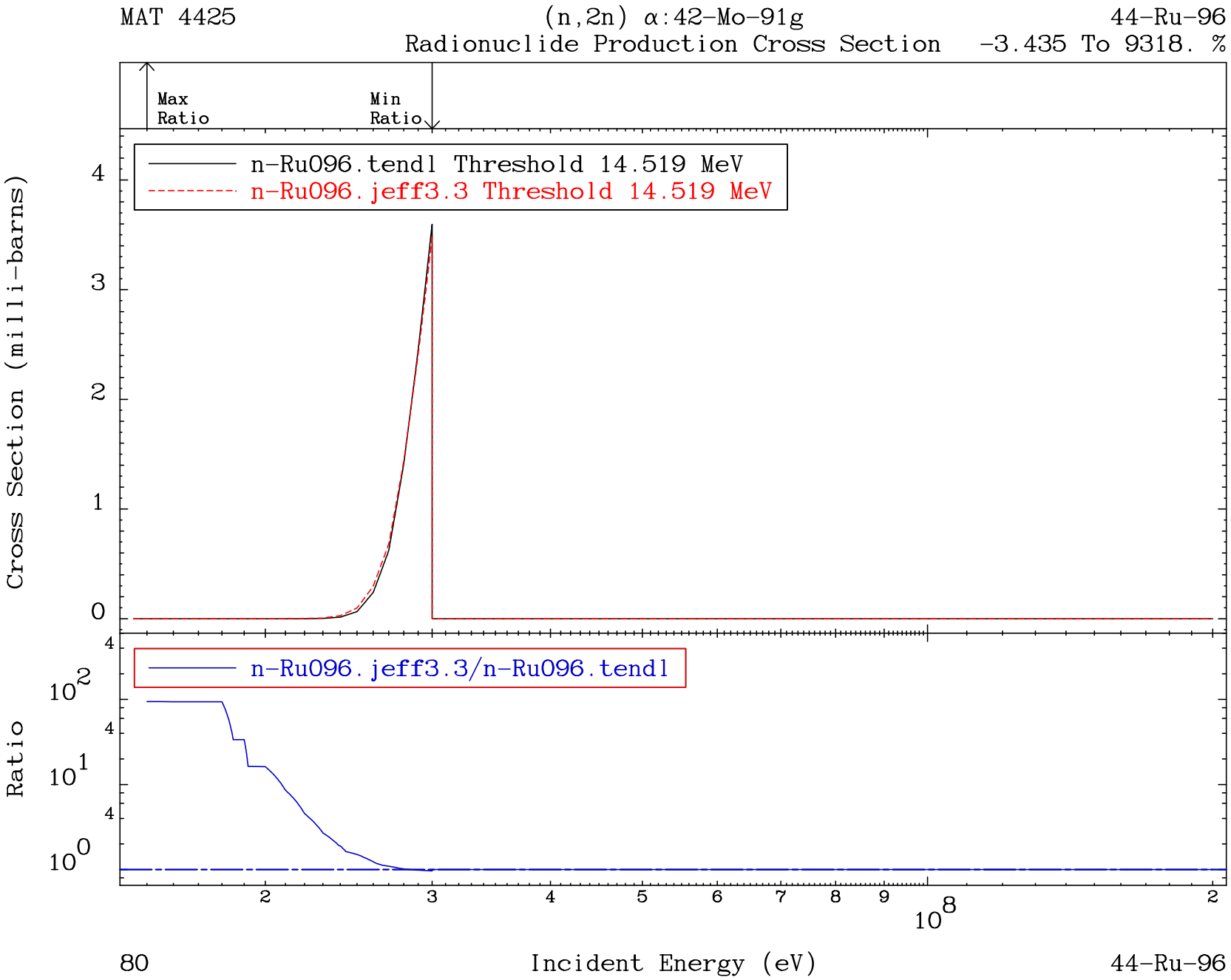

MAT 4425
Dpa elastic (mt2)
Cross Section
44-Ru-96
-99.98 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 556.00 eV
n-Ru096.jeff3.3 Threshold 556.22 eV
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
75
44-Ru-96

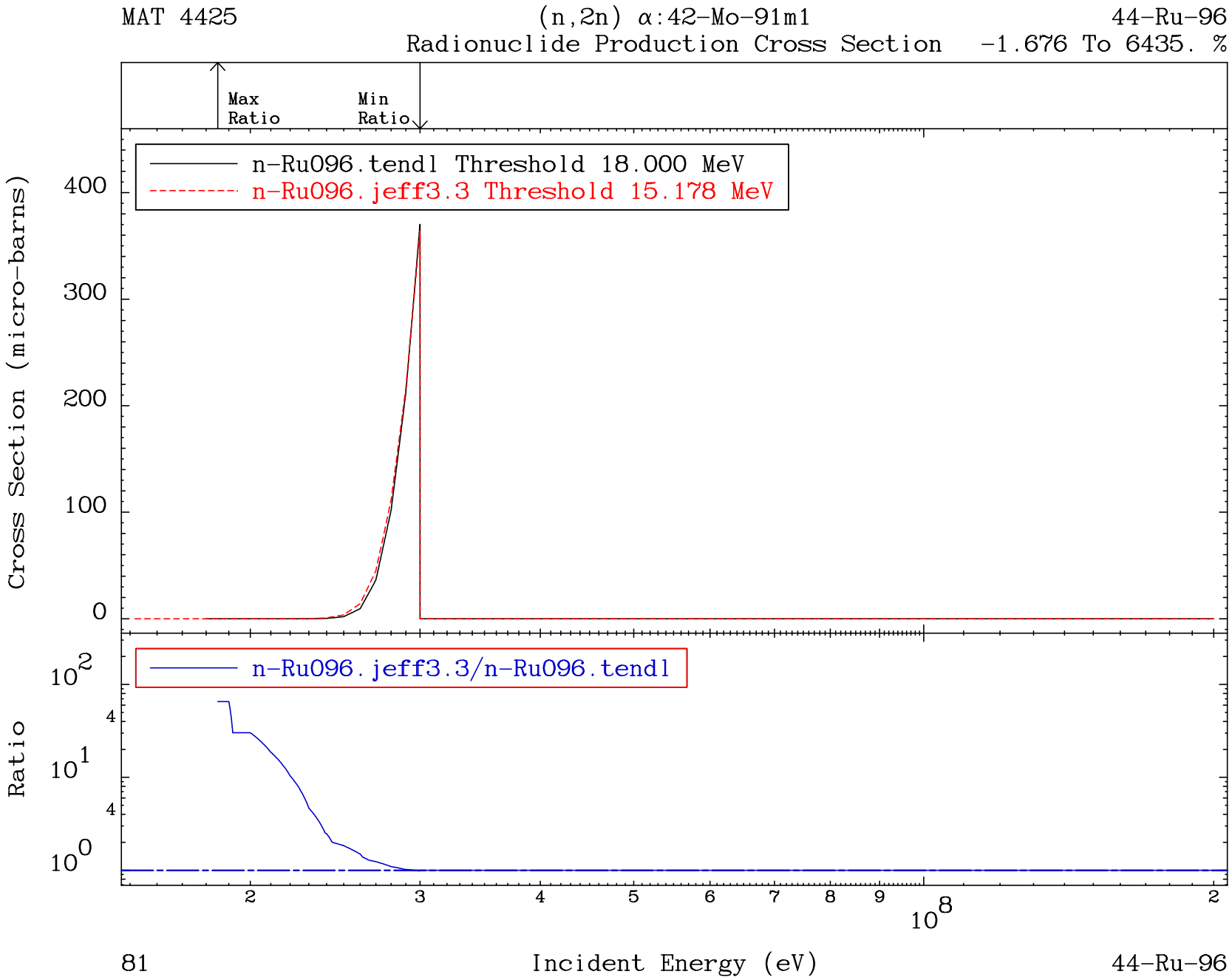

MAT 4425
Dpa inelastic (mt51-91)
Cross Section
44-Ru-96
-2.607 To 5.521 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 850.00 keV
n-Ru096.jeff3.3 Threshold 850.00 keV
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
76
44-Ru-96

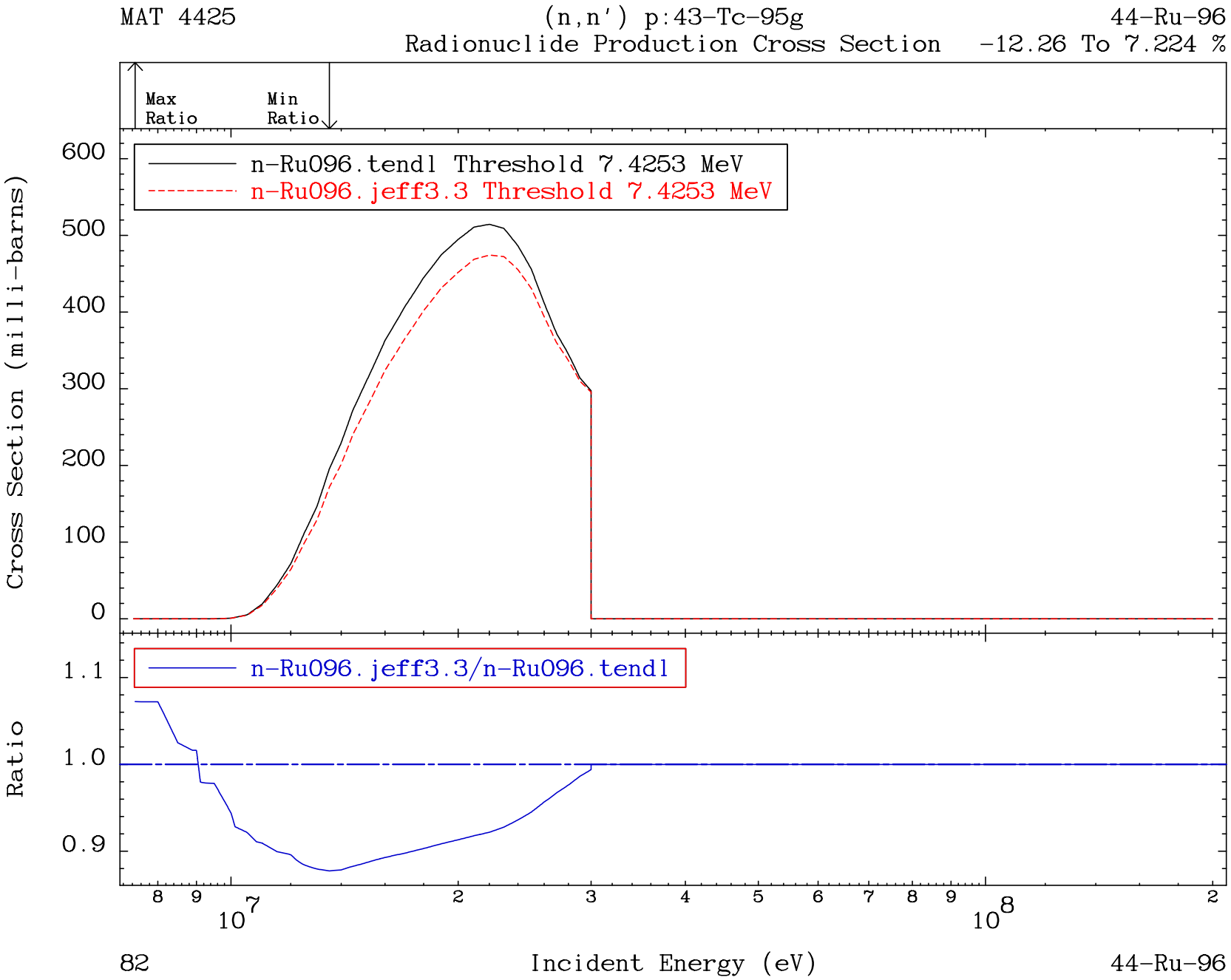

MAT 4425
Dpa disappearance (mt102 -120)
Cross Section
44-Ru-96
-100.0 To 9999. %
Min Ratio
Max Ratio
n-Ru096.tendl
n-Ru096.jeff3.3
Cross Section (barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
77
44-Ru-96

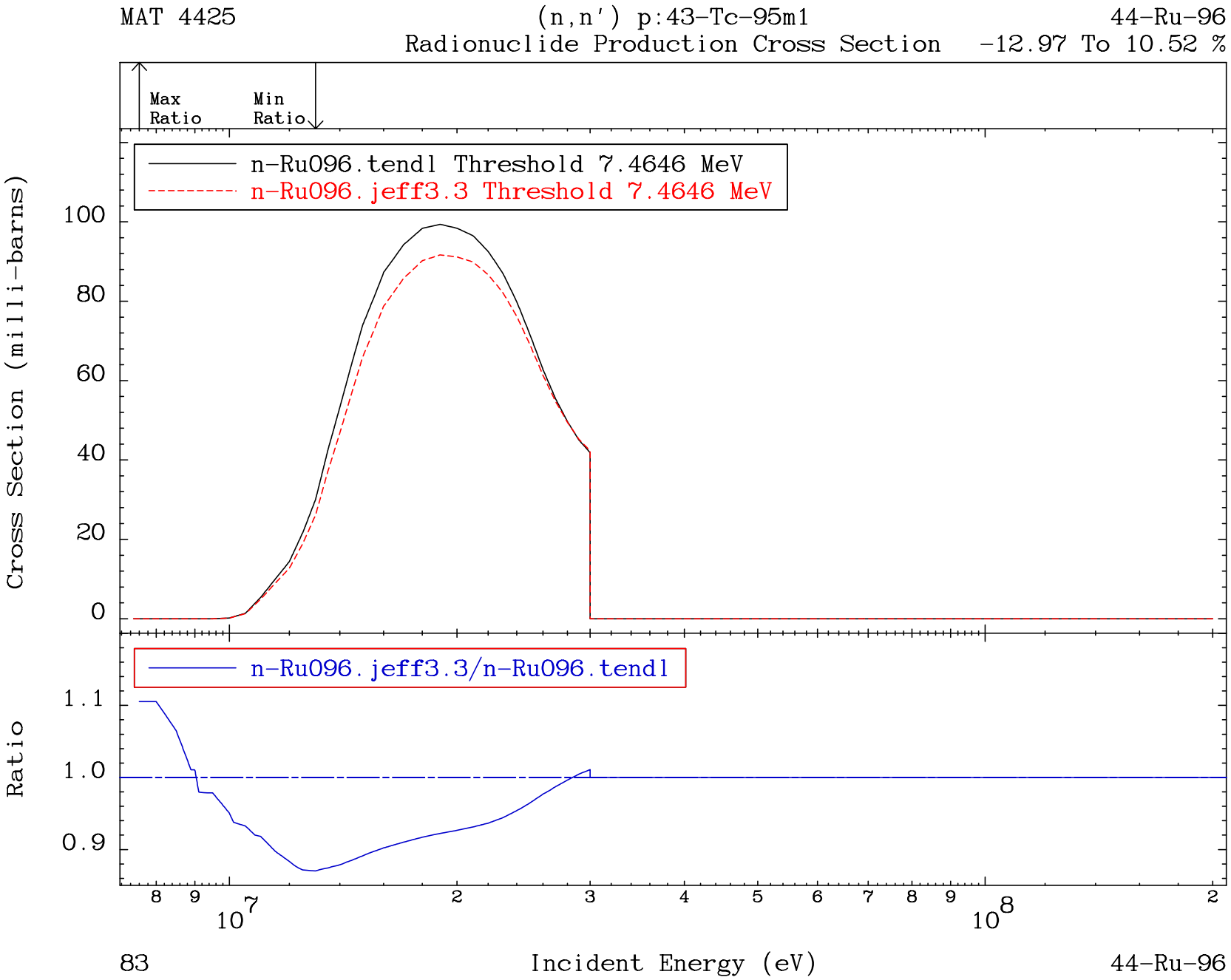

MAT 4425
(n,2n) d:43-Tc-93g
44-Ru-96
Radionuclide Production Cross Section -14.94 To 22.25 %
Min
Ratio
n-Ru096.tendl Threshold 23.930 MeV
n-Ru096.jeff3.3 Threshold 23.930 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.0
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
44-Ru-96

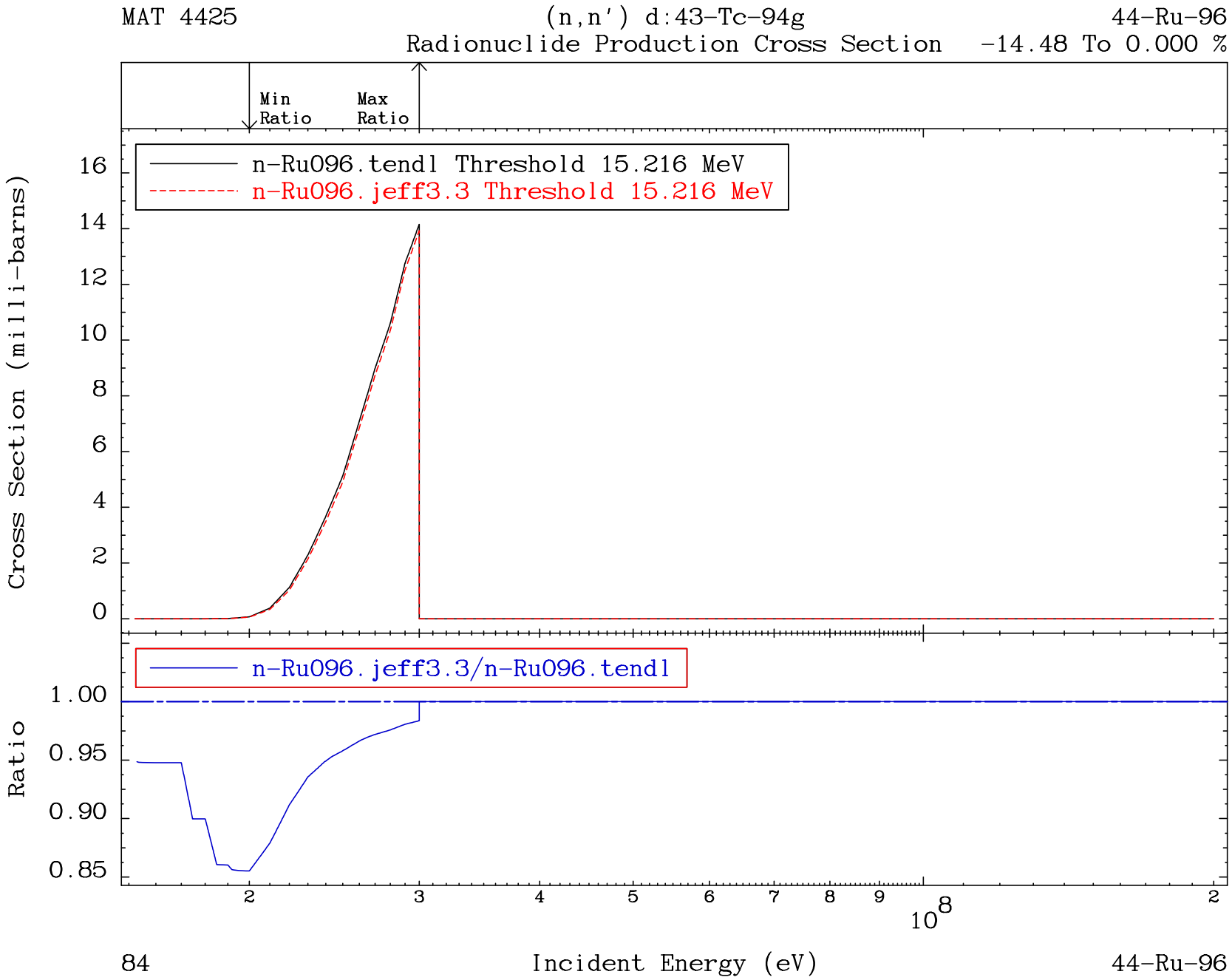

MAT 4425
(n,2n) d:43-Tc-93m1
44-Ru-96
Radionuclide Production Cross Section -14.38 To 7.171 %
Min
Ratio
n-Ru096.tendl Threshold 24.326 MeV
n-Ru096.jeff3.3 Threshold 24.326 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
44-Ru-96

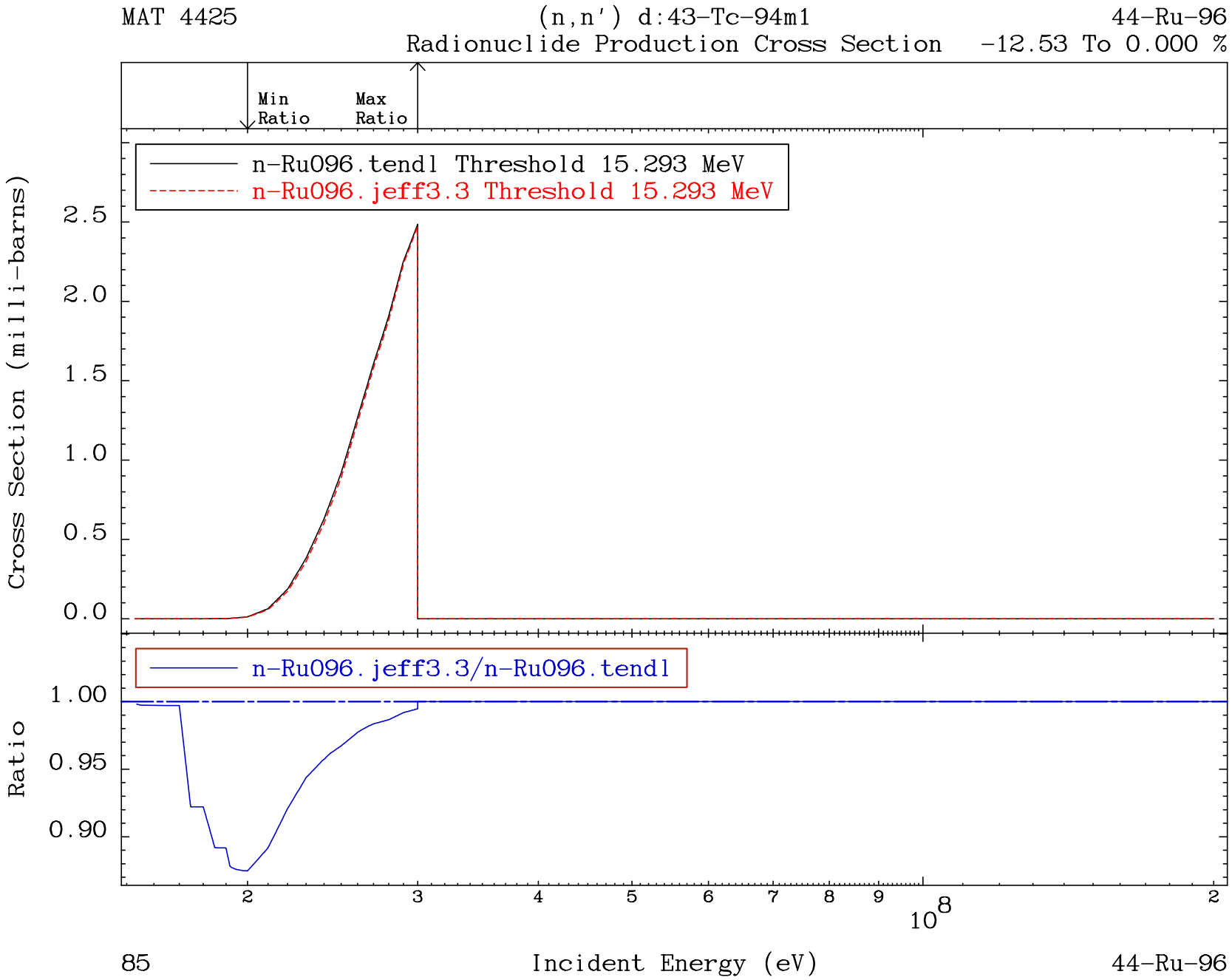

MAT 4425
(n,2n) α:42-Mo-91g
44-Ru-96
Radionuclide Production Cross Section -3.435 To 9318. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 14.519 MeV
n-Ru096.jeff3.3 Threshold 14.519 MeV
Cross Section (milli-barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
80
44-Ru-96

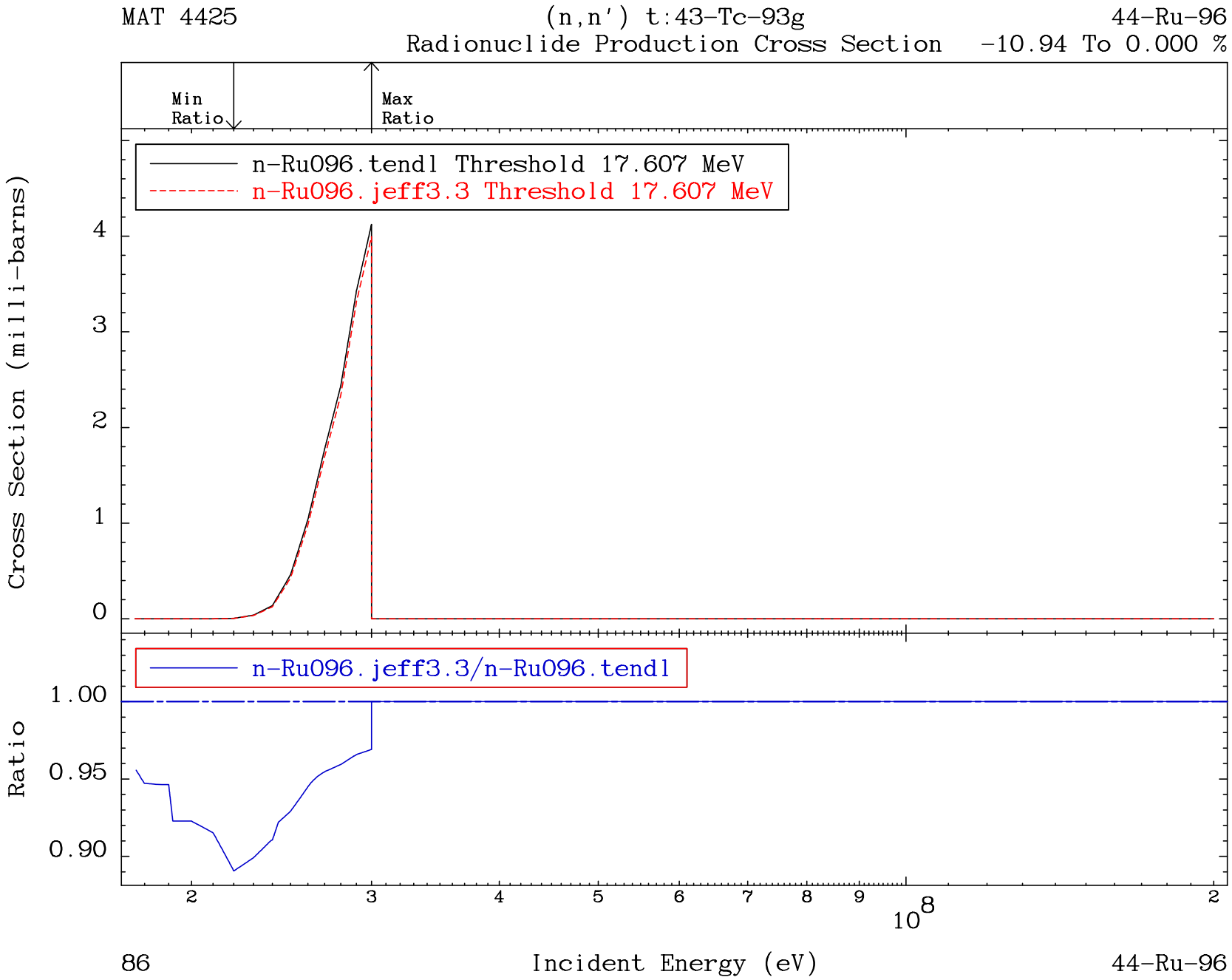

MAT 4425
(n,2n) α:42-Mo-91m1
44-Ru-96
Radionuclide Production Cross Section -1.676 To 6435. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 18.000 MeV
n-Ru096.jeff3.3 Threshold 15.178 MeV
Cross Section (micro-barns)
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
4
10^1
4
10^0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
44-Ru-96

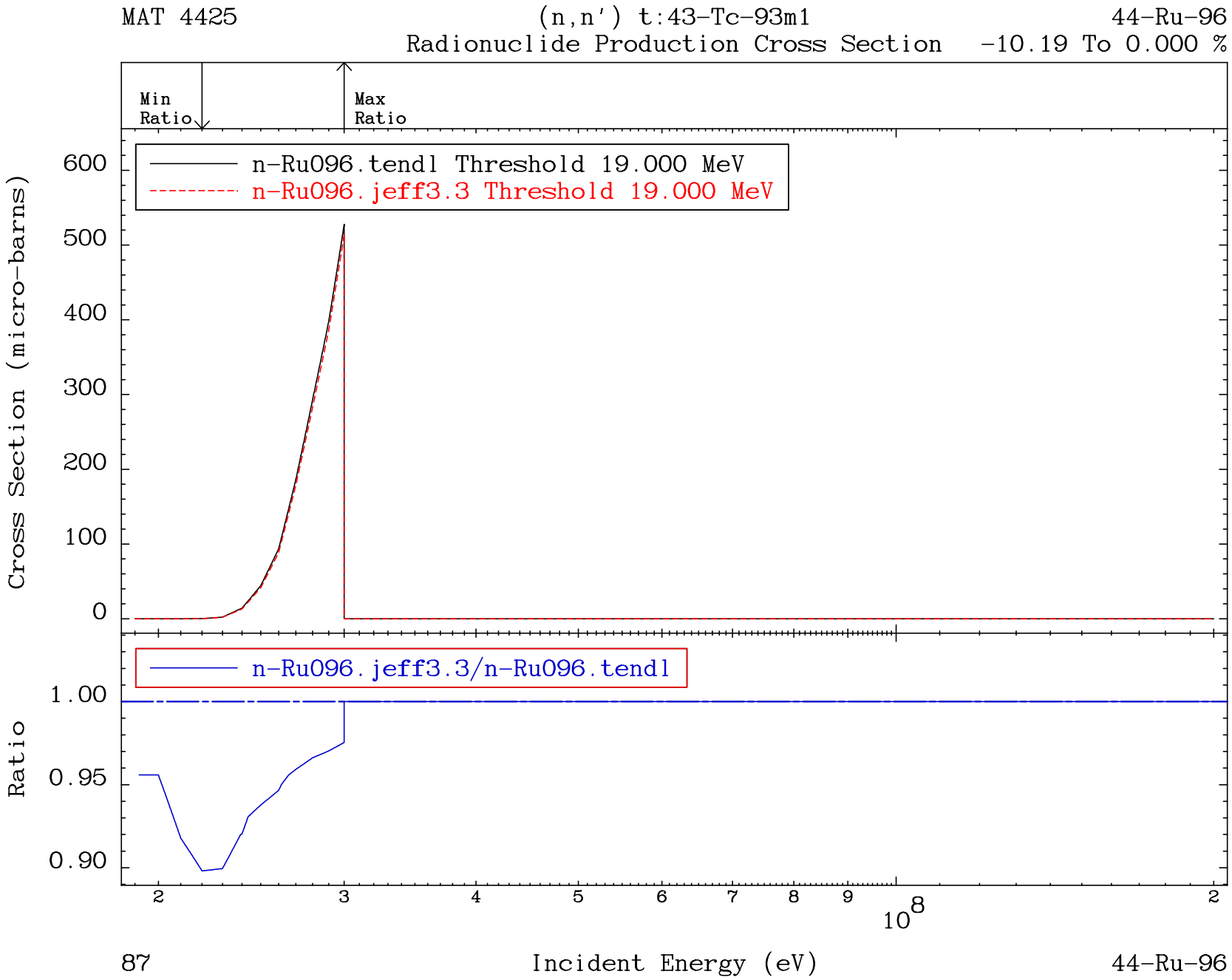

MAT 4425
(n,n') p:43-Tc-95g
44-Ru-96
Radionuclide Production Cross Section -12.26 To 7.224 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 7.4253 MeV
n-Ru096.jeff3.3 Threshold 7.4253 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
82
Incident Energy (eV)
44-Ru-96

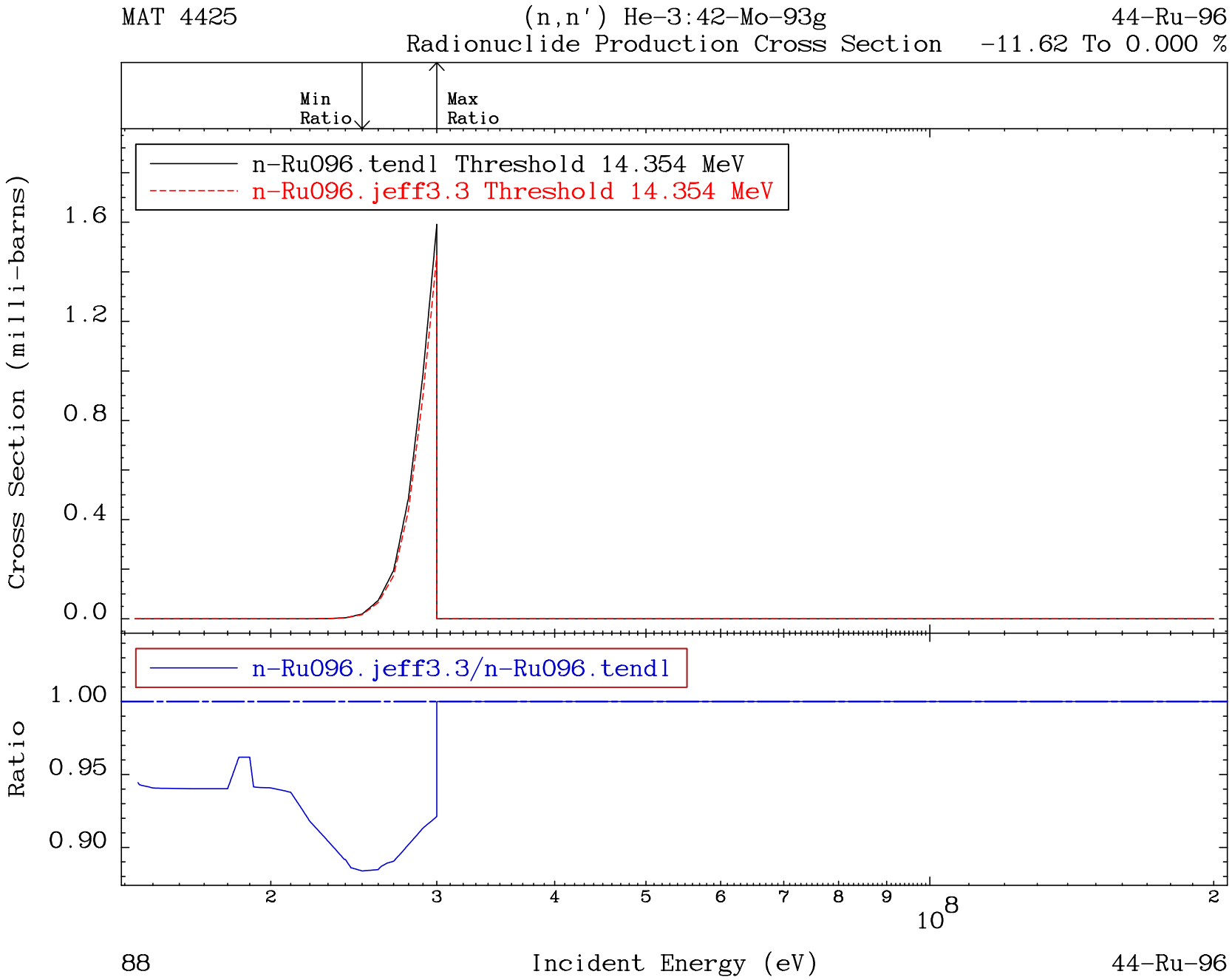

MAT 4425
(n,n') p:43-Tc-95m1
44-Ru-96
Radionuclide Production Cross Section -12.97 To 10.52 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 7.4646 MeV
n-Ru096.jeff3.3 Threshold 7.4646 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
83
Incident Energy (eV)
44-Ru-96

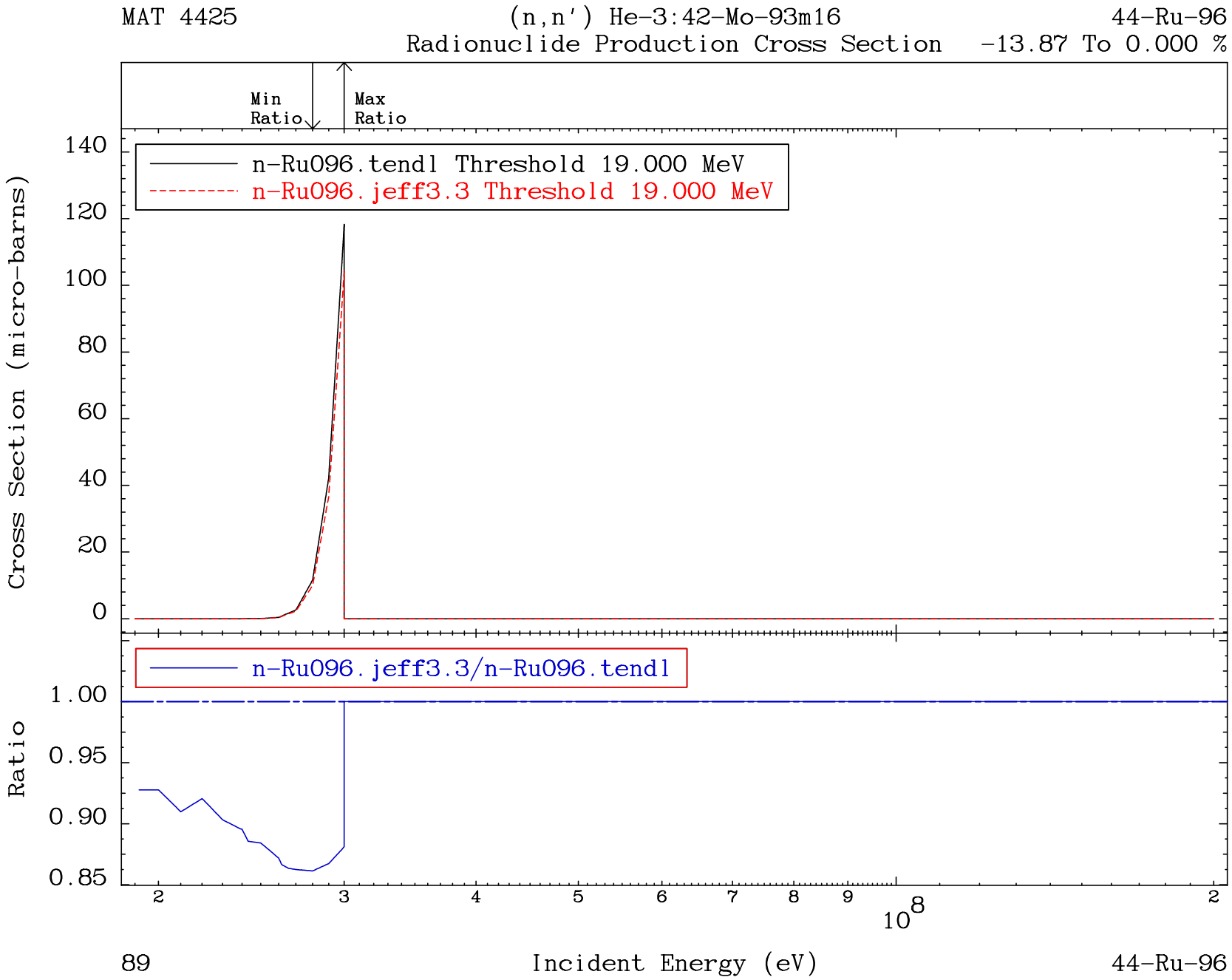

MAT 4425
(n,n') d:43-Tc-94g
44-Ru-96
Radionuclide Production Cross Section -14.48 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 15.216 MeV
n-Ru096.jeff3.3 Threshold 15.216 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
44-Ru-96

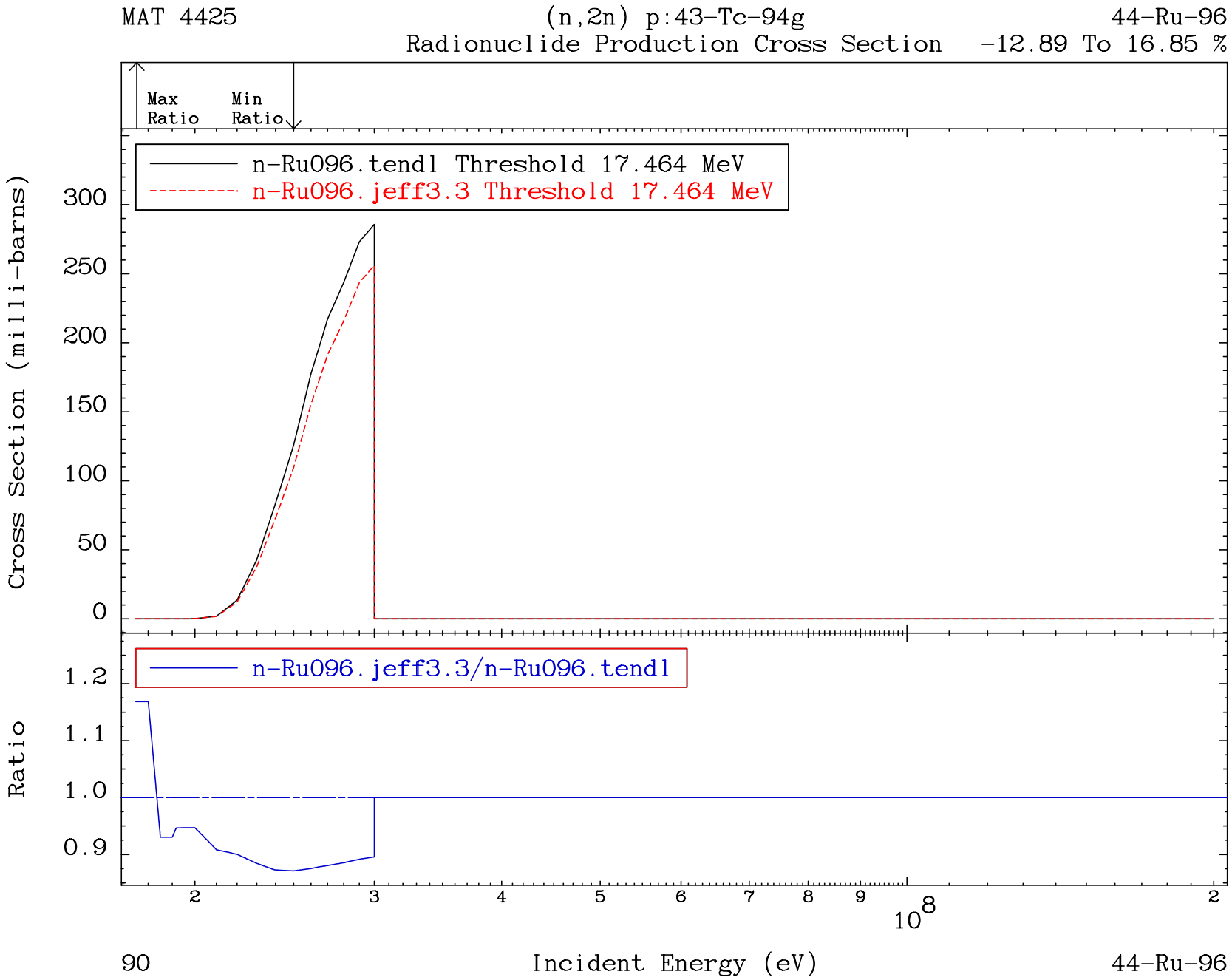

MAT 4425
(n,n') d:43-Tc-94m1
44-Ru-96
Radionuclide Production Cross Section -12.53 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 15.293 MeV
n-Ru096.jeff3.3 Threshold 15.293 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
44-Ru-96

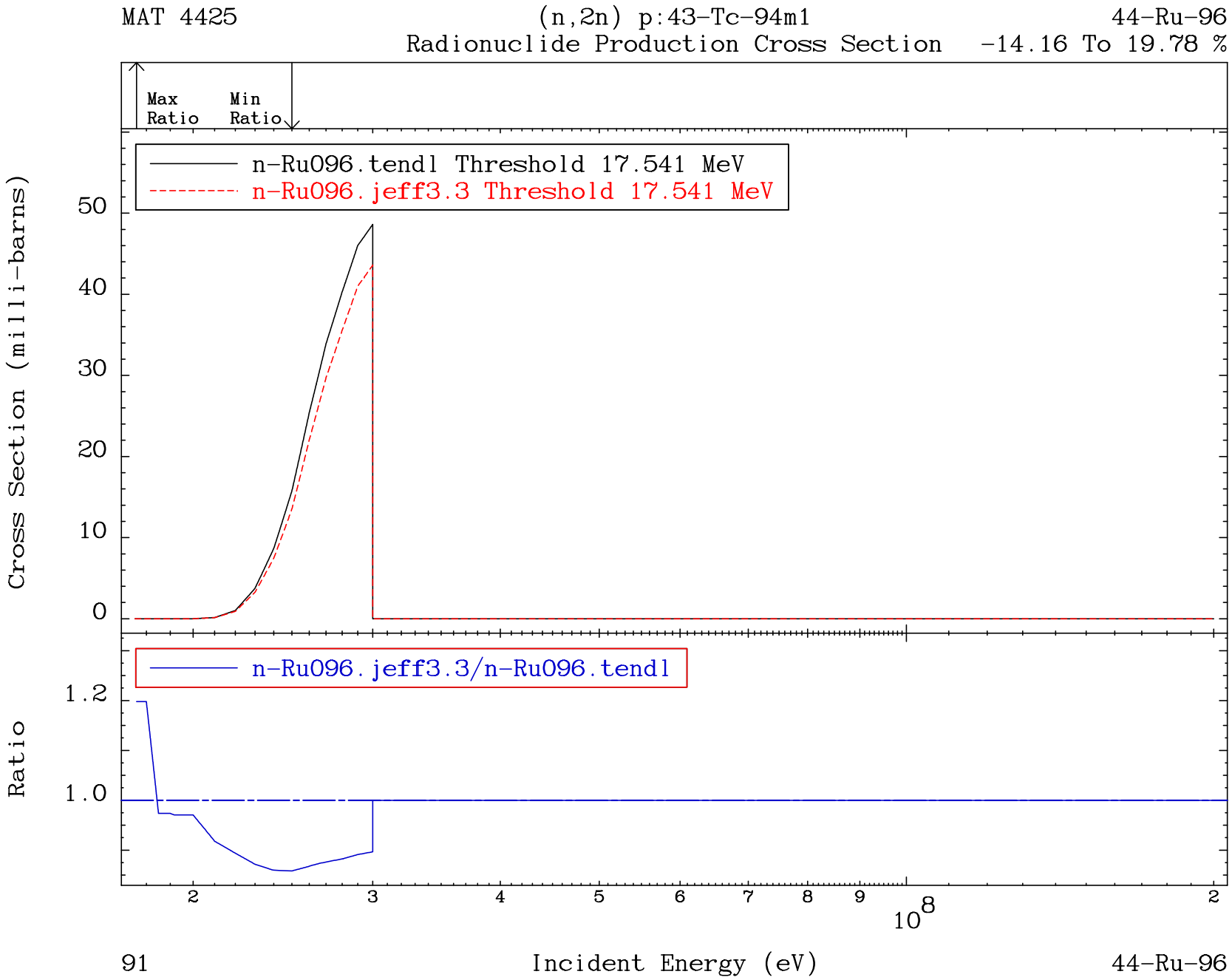

MAT 4425
(n,n') t:43-Tc-93g
44-Ru-96
Radionuclide Production Cross Section -10.94 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 17.607 MeV
n-Ru096.jeff3.3 Threshold 17.607 MeV
Cross Section (milli-barns)
0
1
2
3
4
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
44-Ru-96

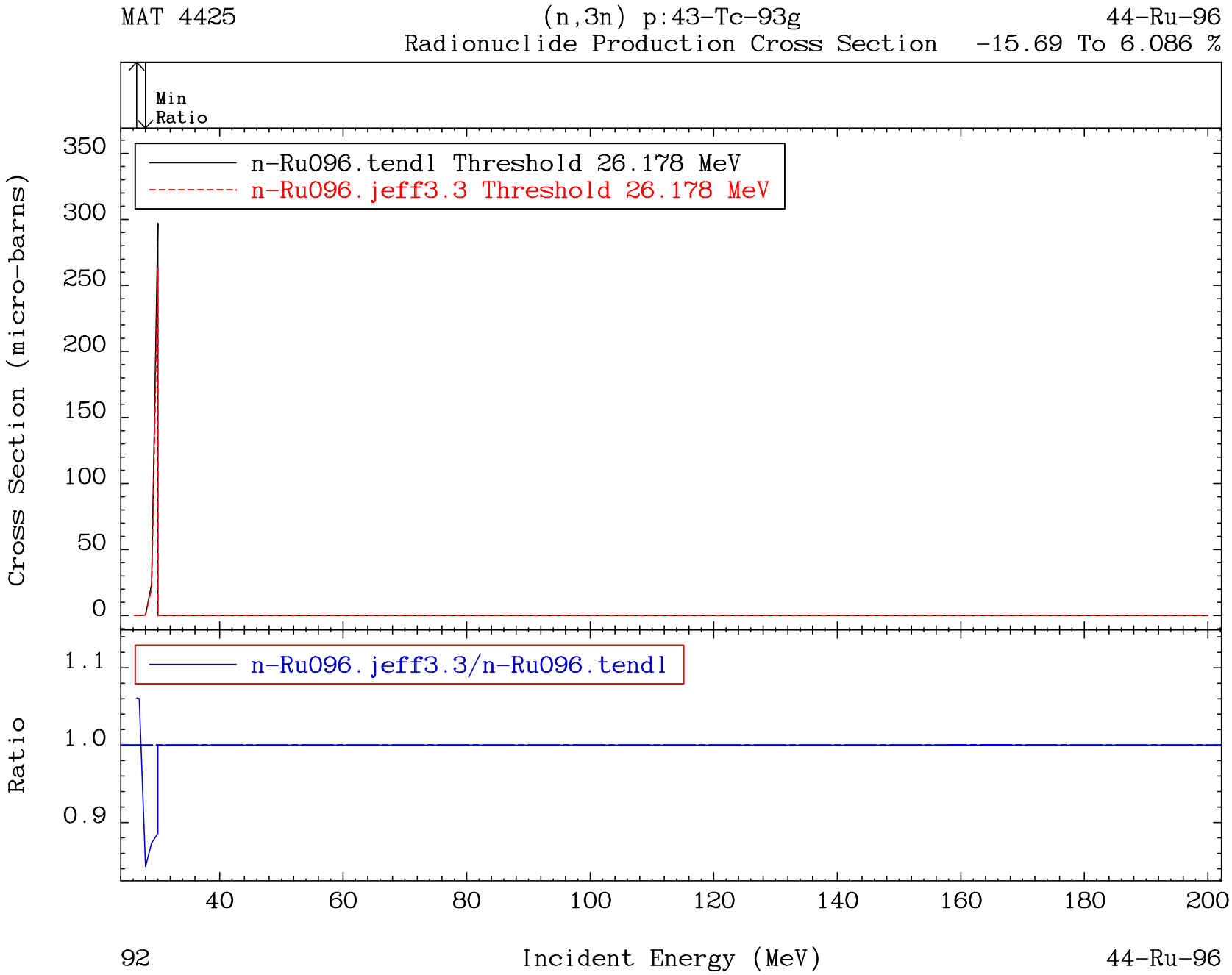

MAT 4425
(n,n') t:43-Tc-93m1
44-Ru-96
Radionuclide Production Cross Section -10.19 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 19.000 MeV
n-Ru096.jeff3.3 Threshold 19.000 MeV
Cross Section (micro-barns)
600
500
400
300
200
100
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
44-Ru-96

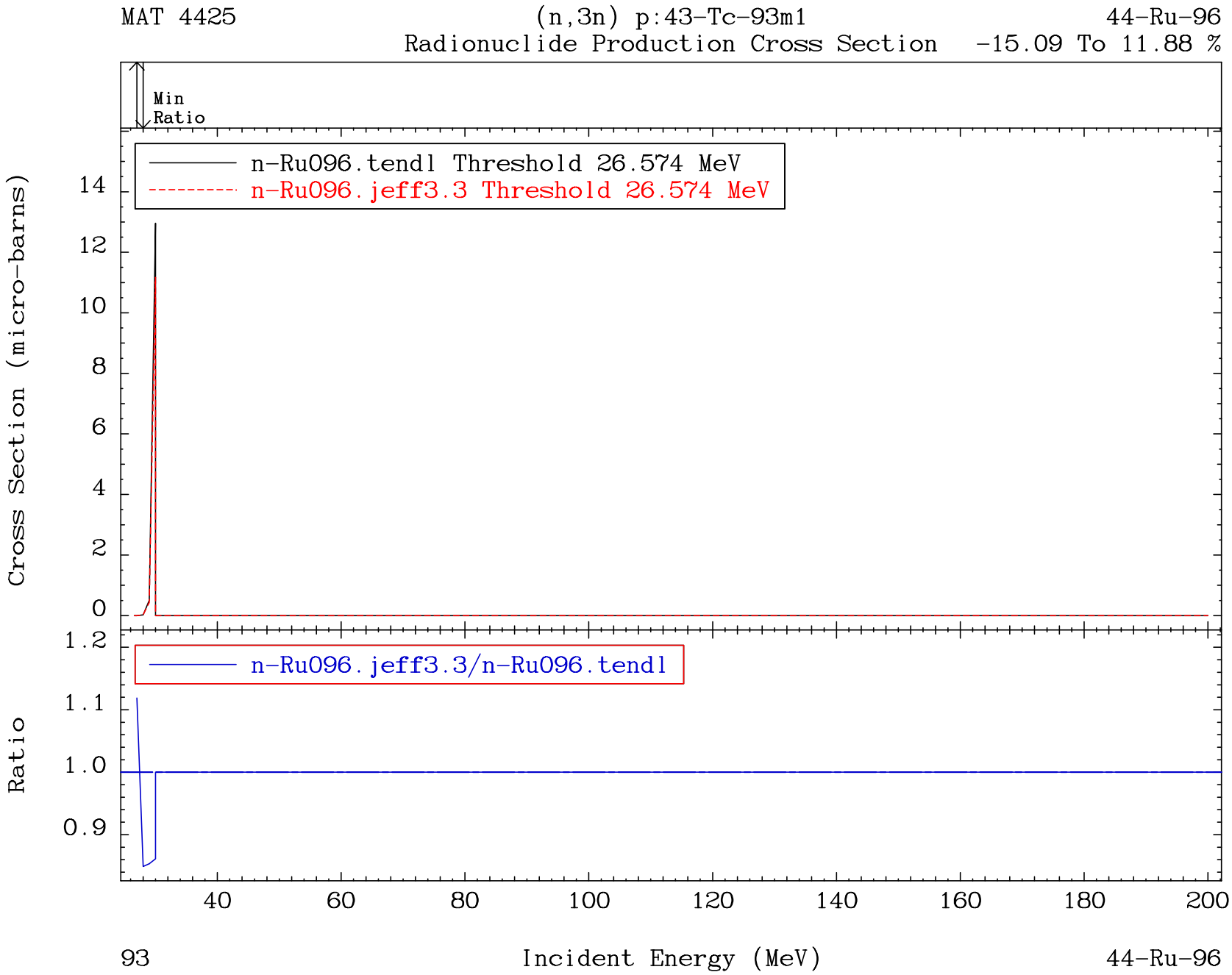

MAT 4425
(n,n') He-3:42-Mo-93g
44-Ru-96
Radionuclide Production Cross Section -11.62 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 14.354 MeV
n-Ru096.jeff3.3 Threshold 14.354 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
88
Incident Energy (eV)
44-Ru-96

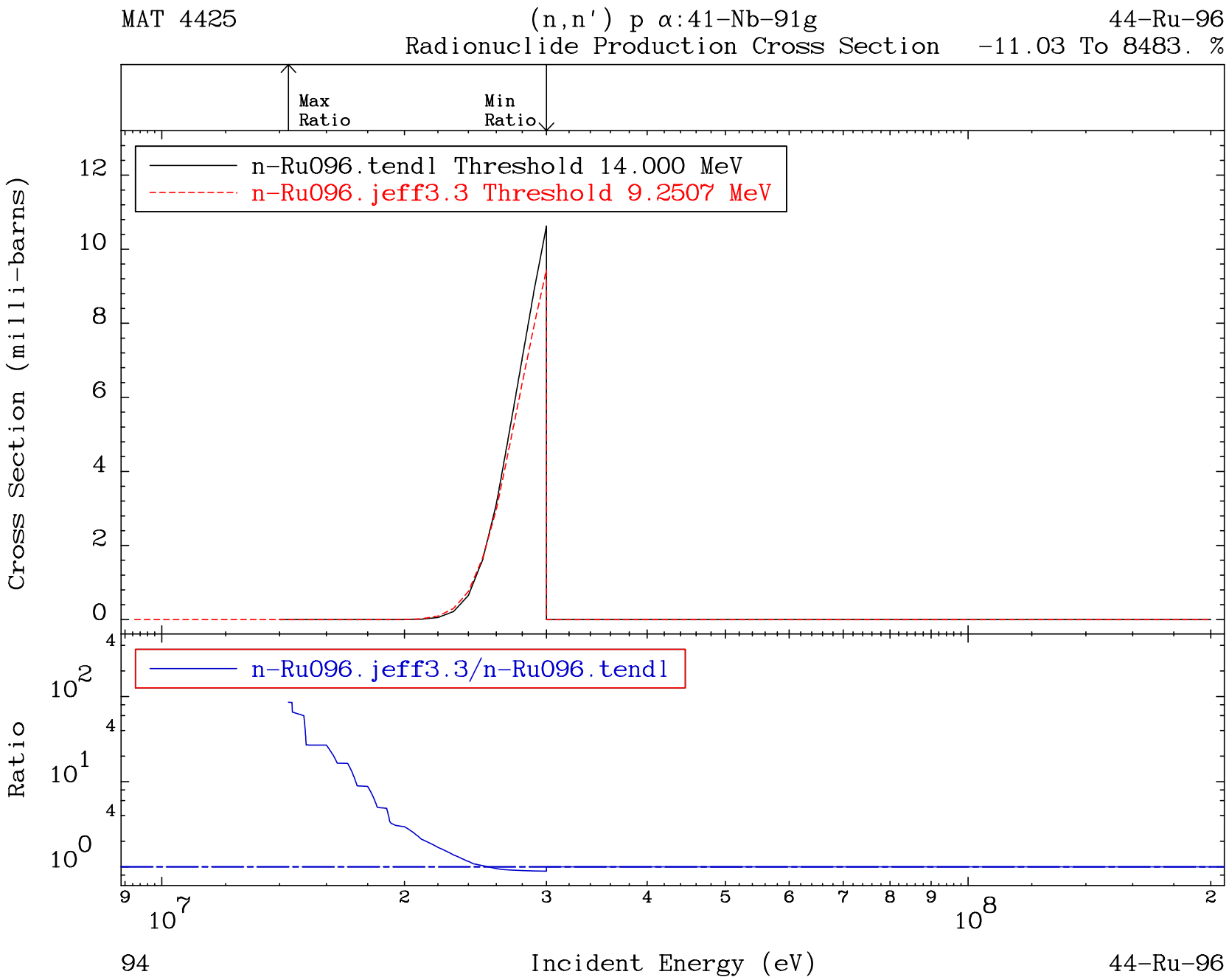

MAT 4425
(n,n') He-3:42-Mo-93m16
44-Ru-96
Radionuclide Production Cross Section
-13.87 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 19.000 MeV
n-Ru096.jeff3.3 Threshold 19.000 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
89
Incident Energy (eV)
44-Ru-96

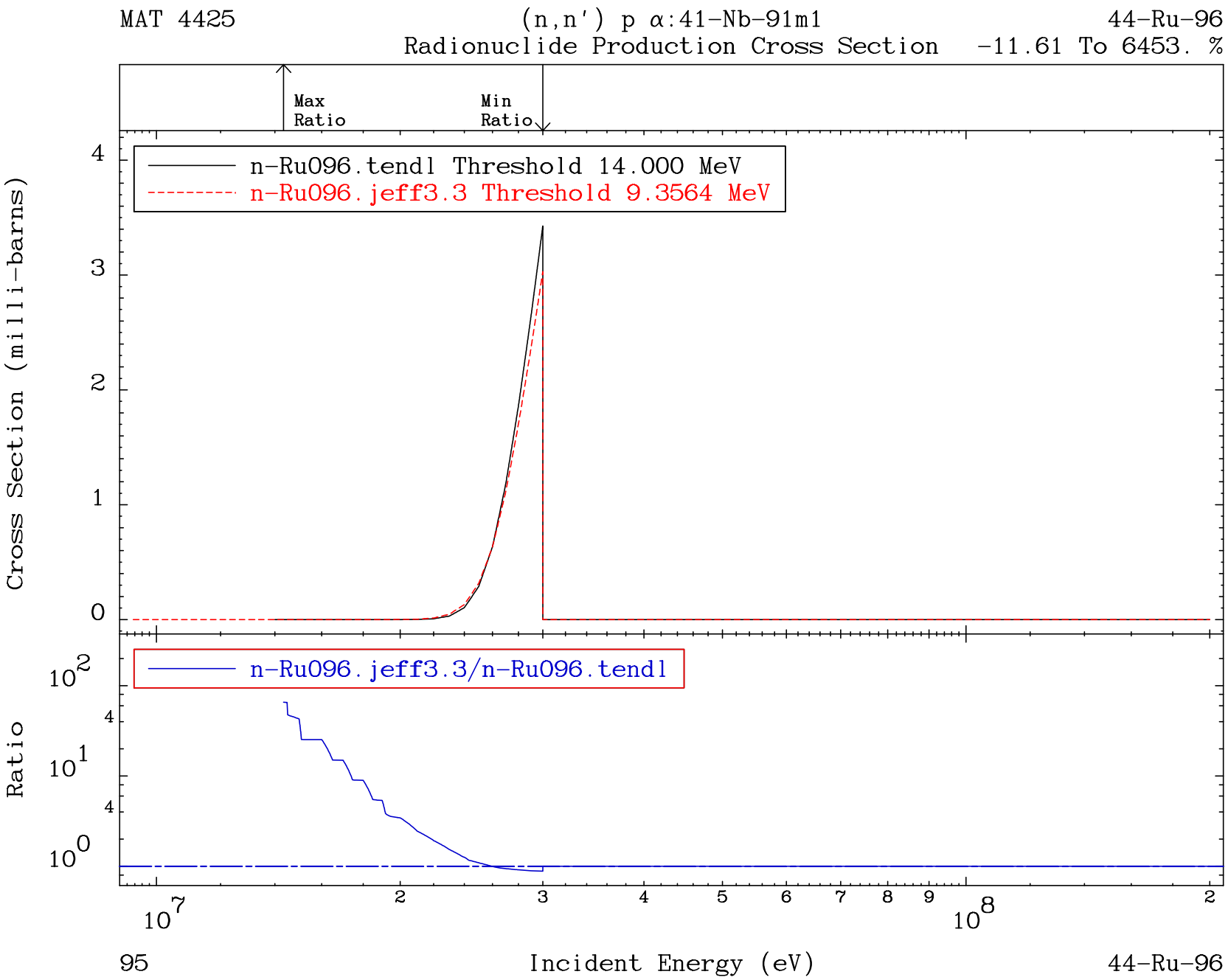

MAT 4425
(n,2n) p:43-Tc-94g
44-Ru-96
Radionuclide Production Cross Section -12.89 To 16.85 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 17.464 MeV
n-Ru096.jeff3.3 Threshold 17.464 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
90
Incident Energy (eV)
44-Ru-96

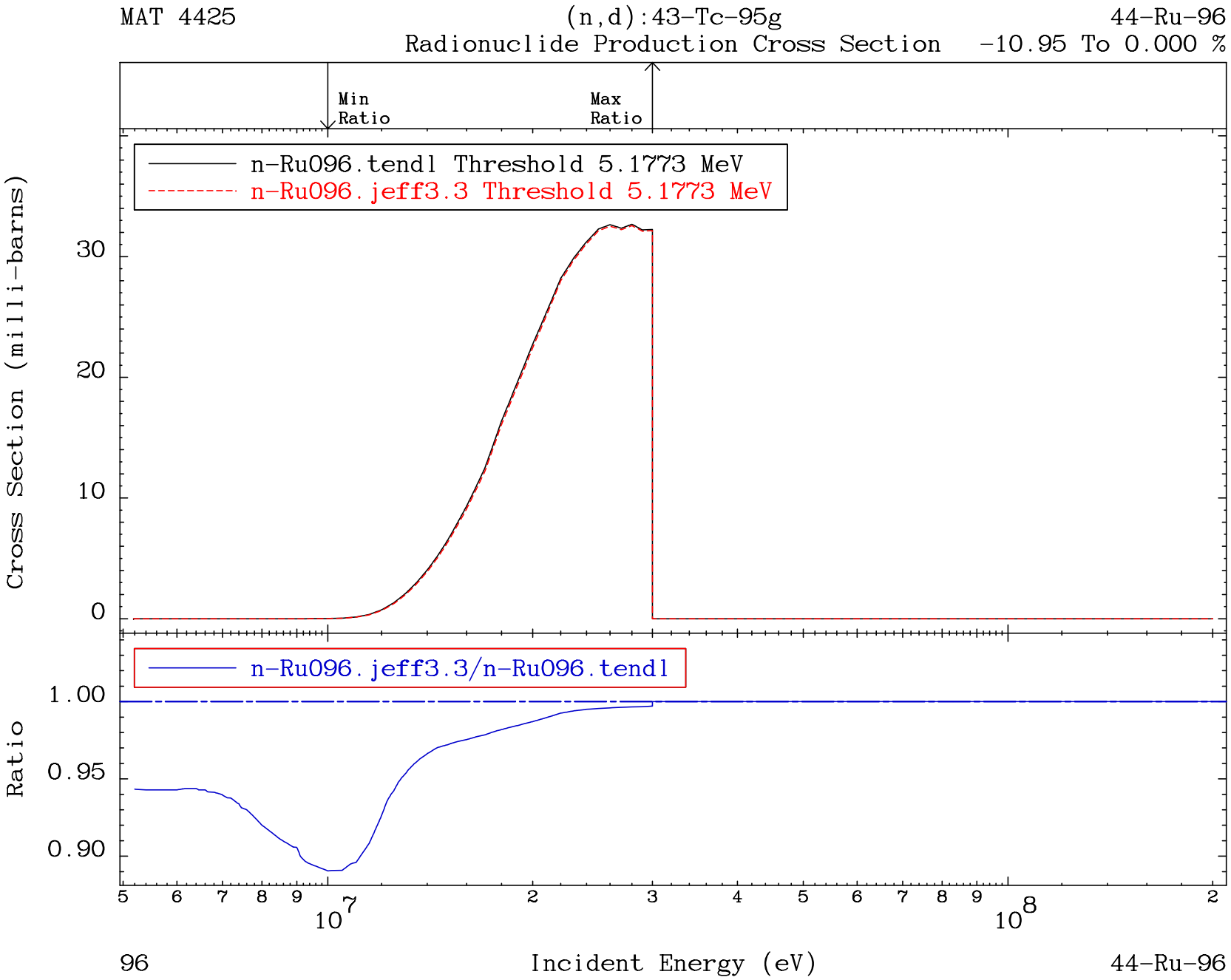

MAT 4425
(n,2n) p:43-Tc-94m1
44-Ru-96
Radionuclide Production Cross Section -14.16 To 19.78 %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 17.541 MeV
n-Ru096.jeff3.3 Threshold 17.541 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
91
Incident Energy (eV)
44-Ru-96

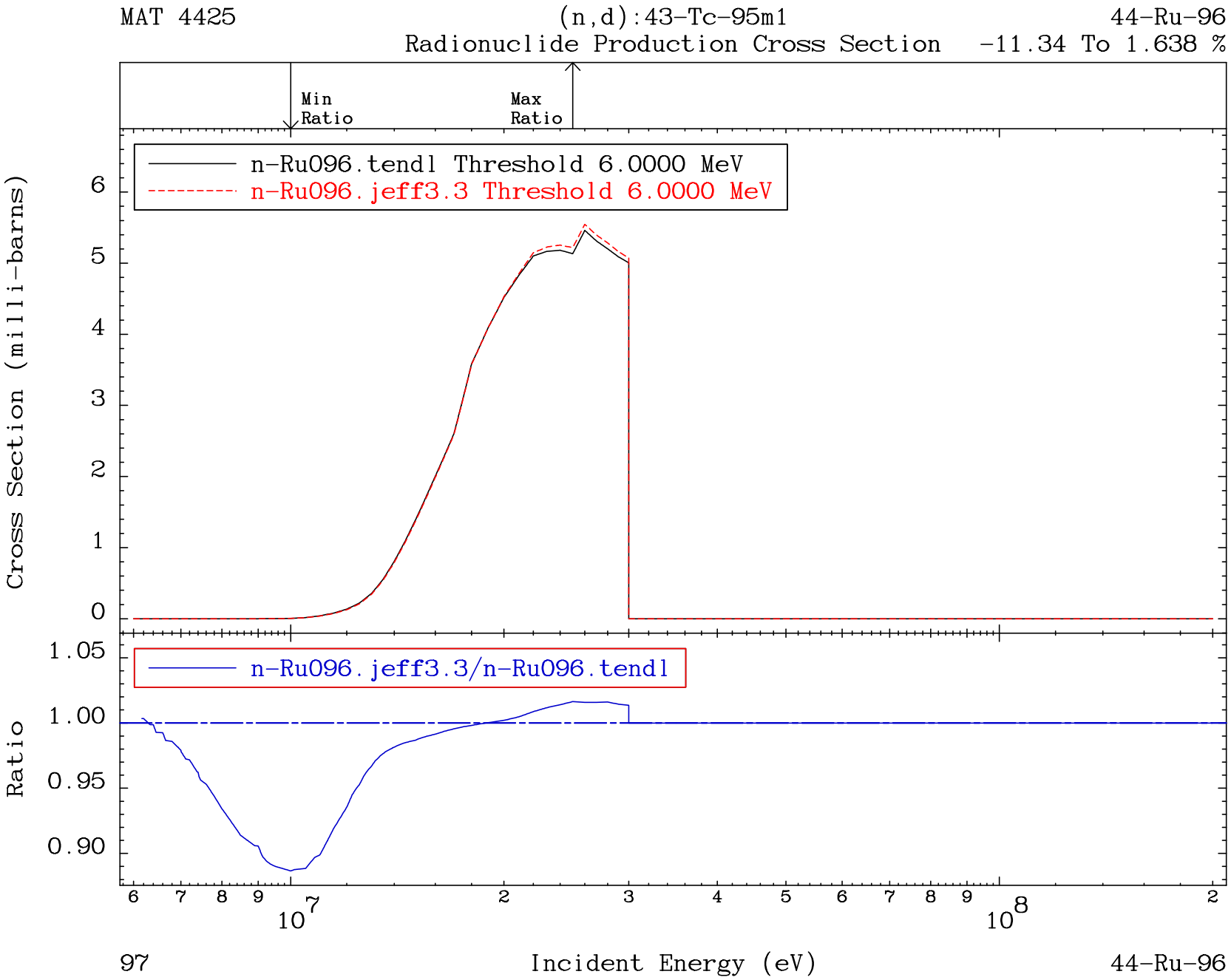

MAT 4425
(n,3n) p:43-Tc-93g
44-Ru-96
Radionuclide Production Cross Section -15.69 To 6.086 %
Min
Ratio
n-Ru096.tendl Threshold 26.178 MeV
n-Ru096.jeff3.3 Threshold 26.178 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.1
1.0
0.9
40
60
80
100
120
140
160
180
200
92
Incident Energy (MeV)
44-Ru-96

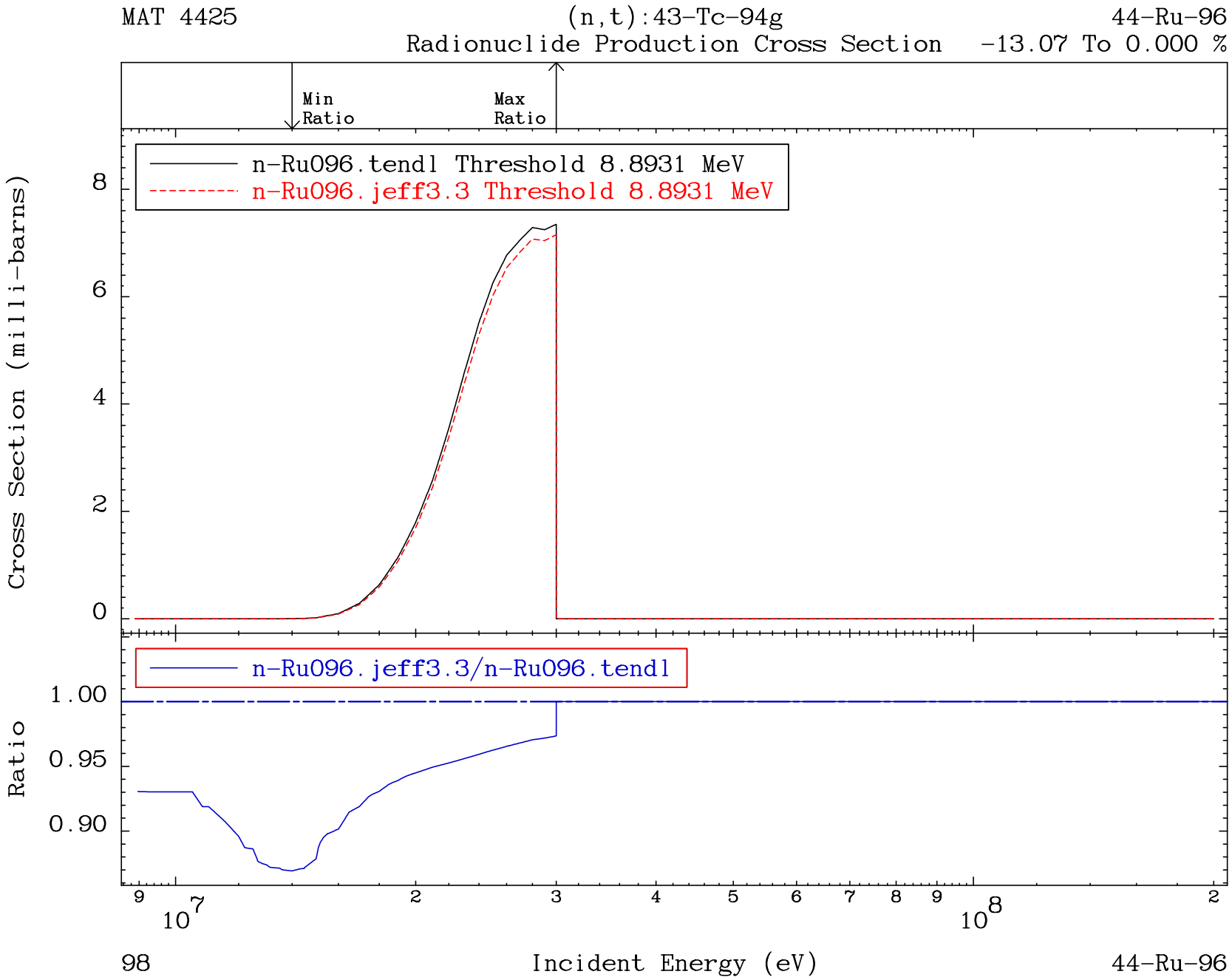

MAT 4425
(n,3n) p:43-Tc-93m1
44-Ru-96
Radionuclide Production Cross Section -15.09 To 11.88 %
Min
Ratio
n-Ru096.tendl Threshold 26.574 MeV
n-Ru096.jeff3.3 Threshold 26.574 MeV
Cross Section (micro-barns)
0
2
4
6
8
10
12
14
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
0.9
1.0
1.1
1.2
40
60
80
100
120
140
160
180
200
93
Incident Energy (MeV)
44-Ru-96

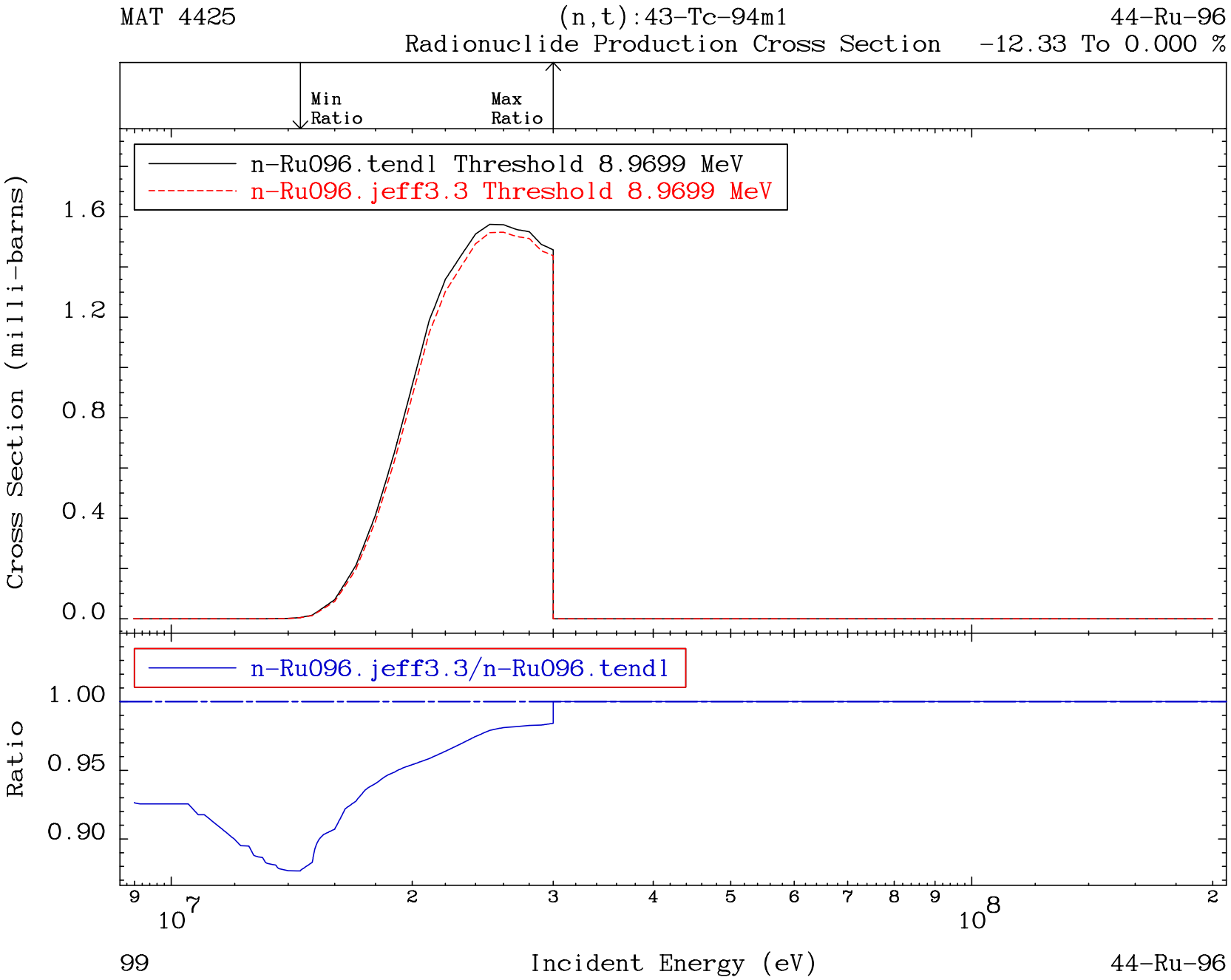

MAT 4425
(n,n') p α:41-Nb-91g
44-Ru-96
Radionuclide Production Cross Section -11.03 To 8483. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 14.000 MeV
n-Ru096.jeff3.3 Threshold 9.2507 MeV
Cross Section (milli-barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
94
44-Ru-96

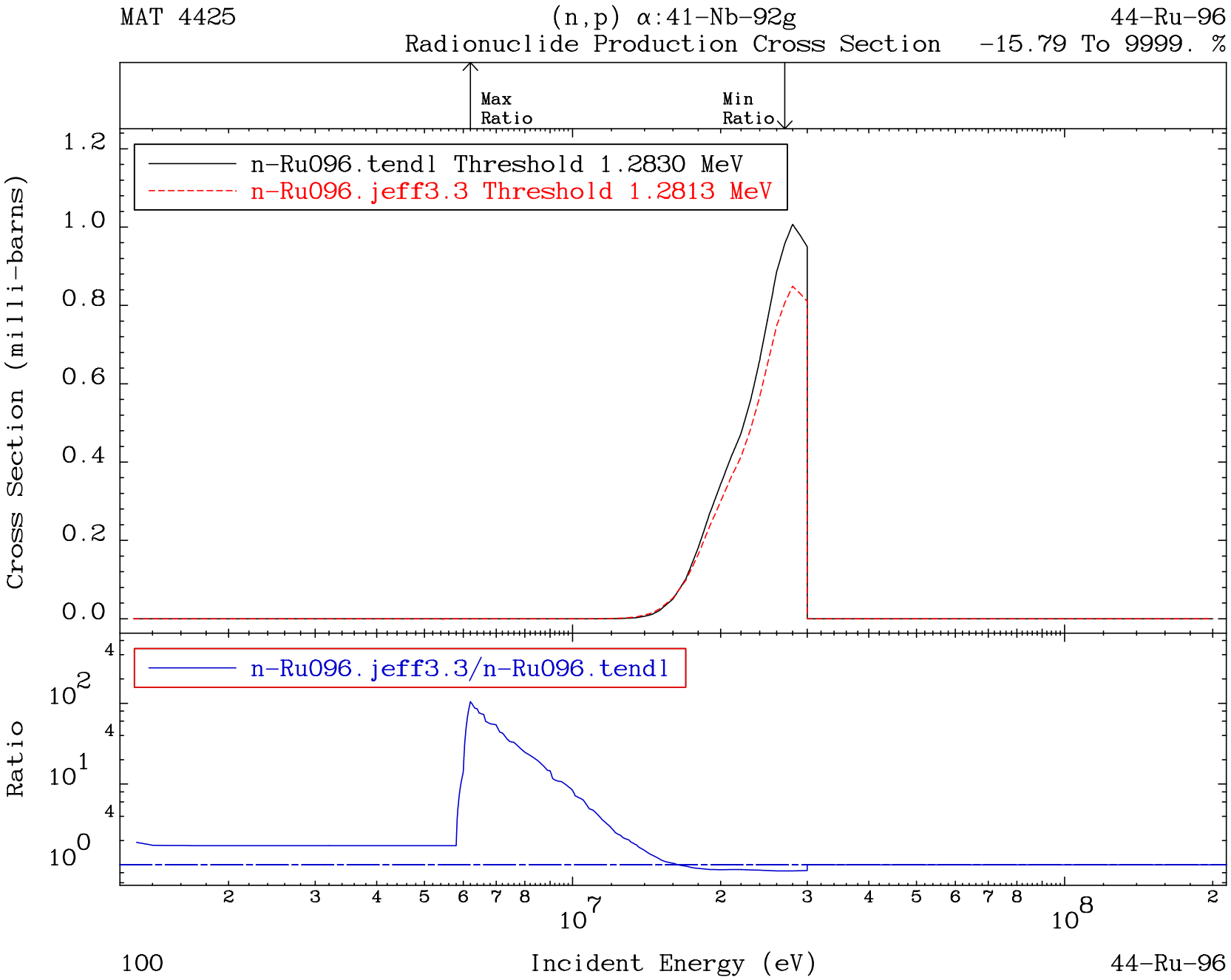

MAT 4425
(n,n') p α:41-Nb-91m1
44-Ru-96
Radionuclide Production Cross Section -11.61 To 6453. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 14.000 MeV
n-Ru096.jeff3.3 Threshold 9.3564 MeV
Cross Section (milli-barns)
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
Incident Energy (eV)
95
44-Ru-96

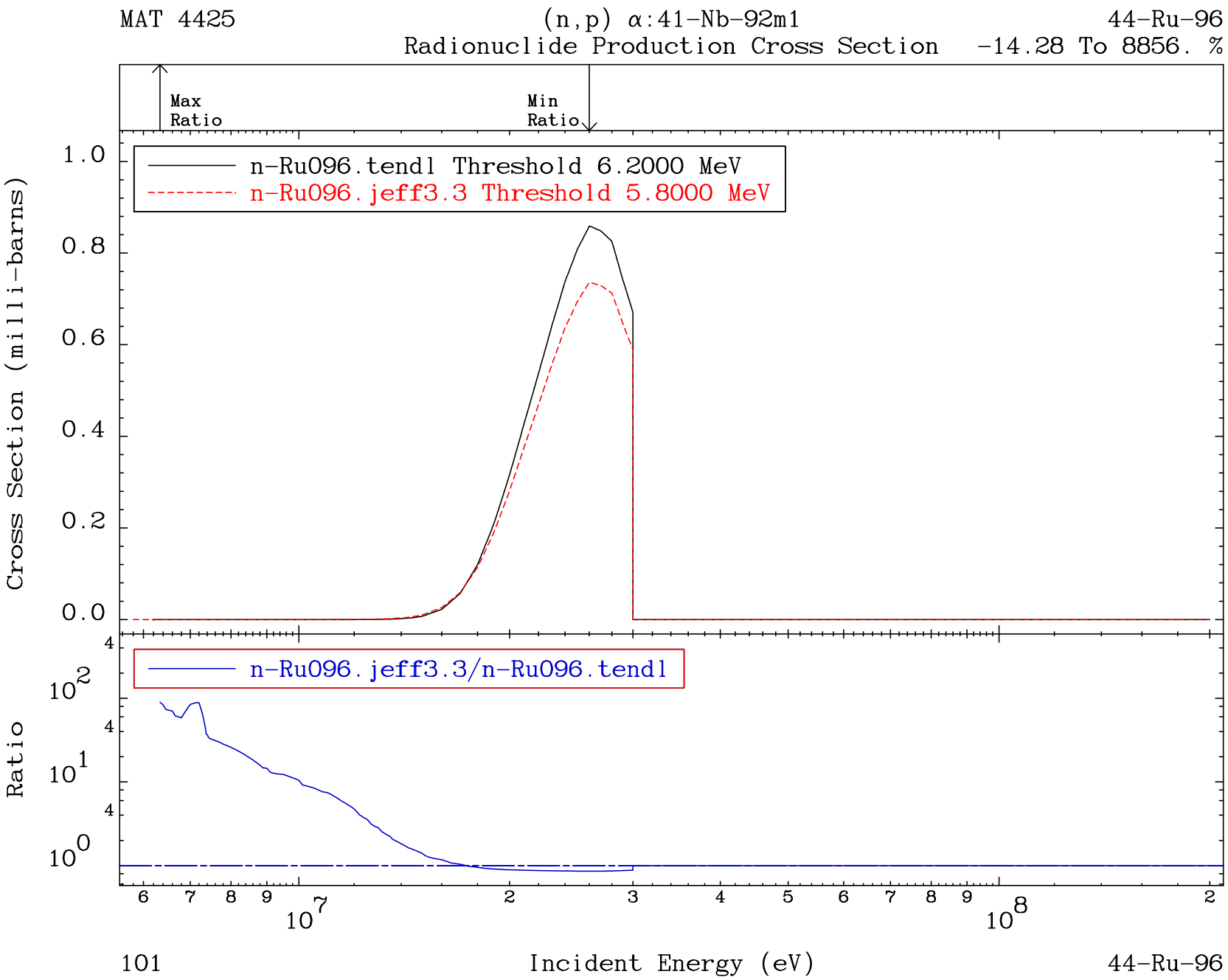

MAT 4425
(n,d):43-Tc-95g
44-Ru-96
Radionuclide Production Cross Section -10.95 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 5.1773 MeV
n-Ru096.jeff3.3 Threshold 5.1773 MeV
Cross Section (milli-barns)
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
96
Incident Energy (eV)
44-Ru-96

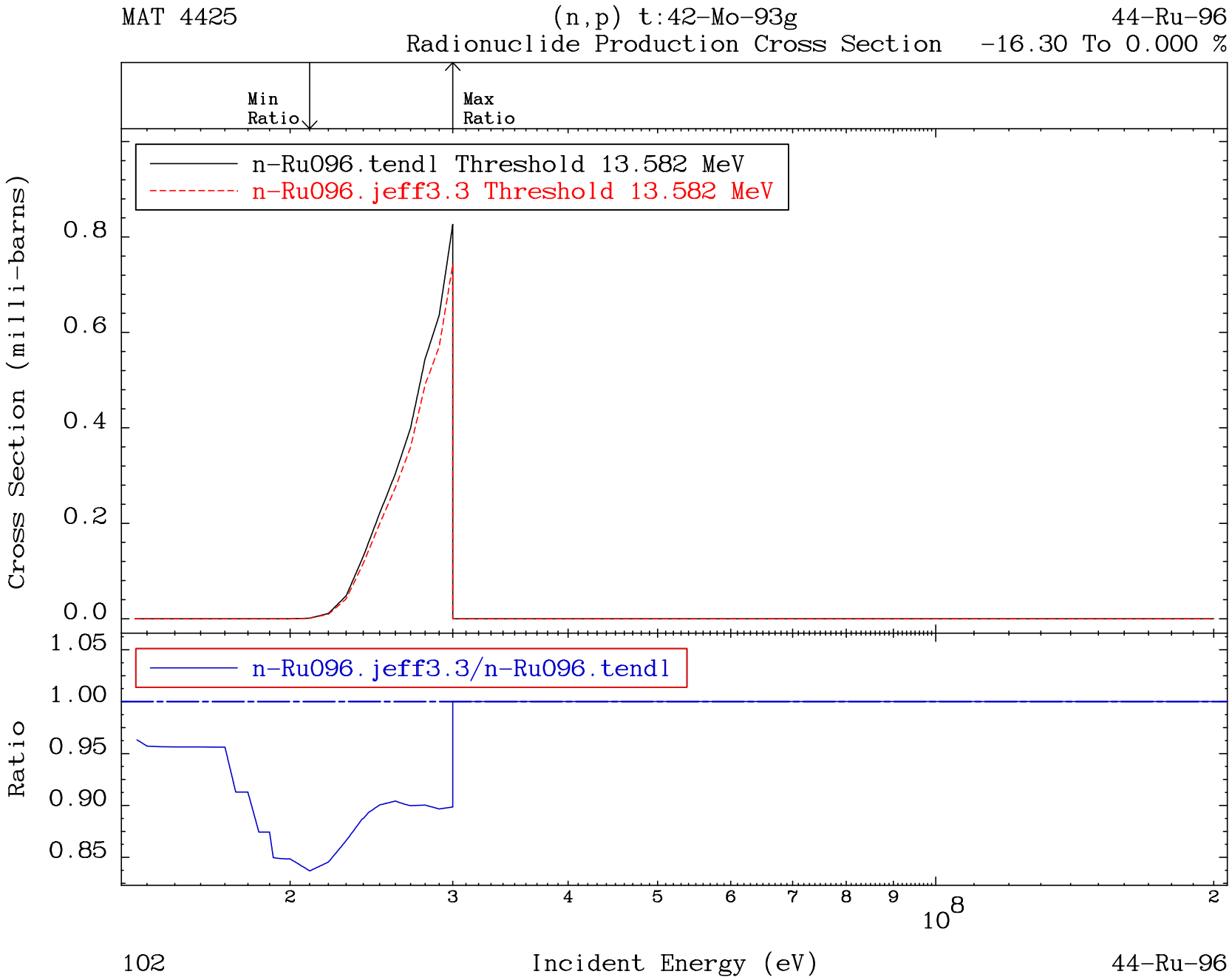

MAT 4425
(n,d):43-Tc-95m1
44-Ru-96
Radionuclide Production Cross Section -11.34 To 1.638 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 6.0000 MeV
n-Ru096.jeff3.3 Threshold 6.0000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
0.90
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
97
Incident Energy (eV)
44-Ru-96

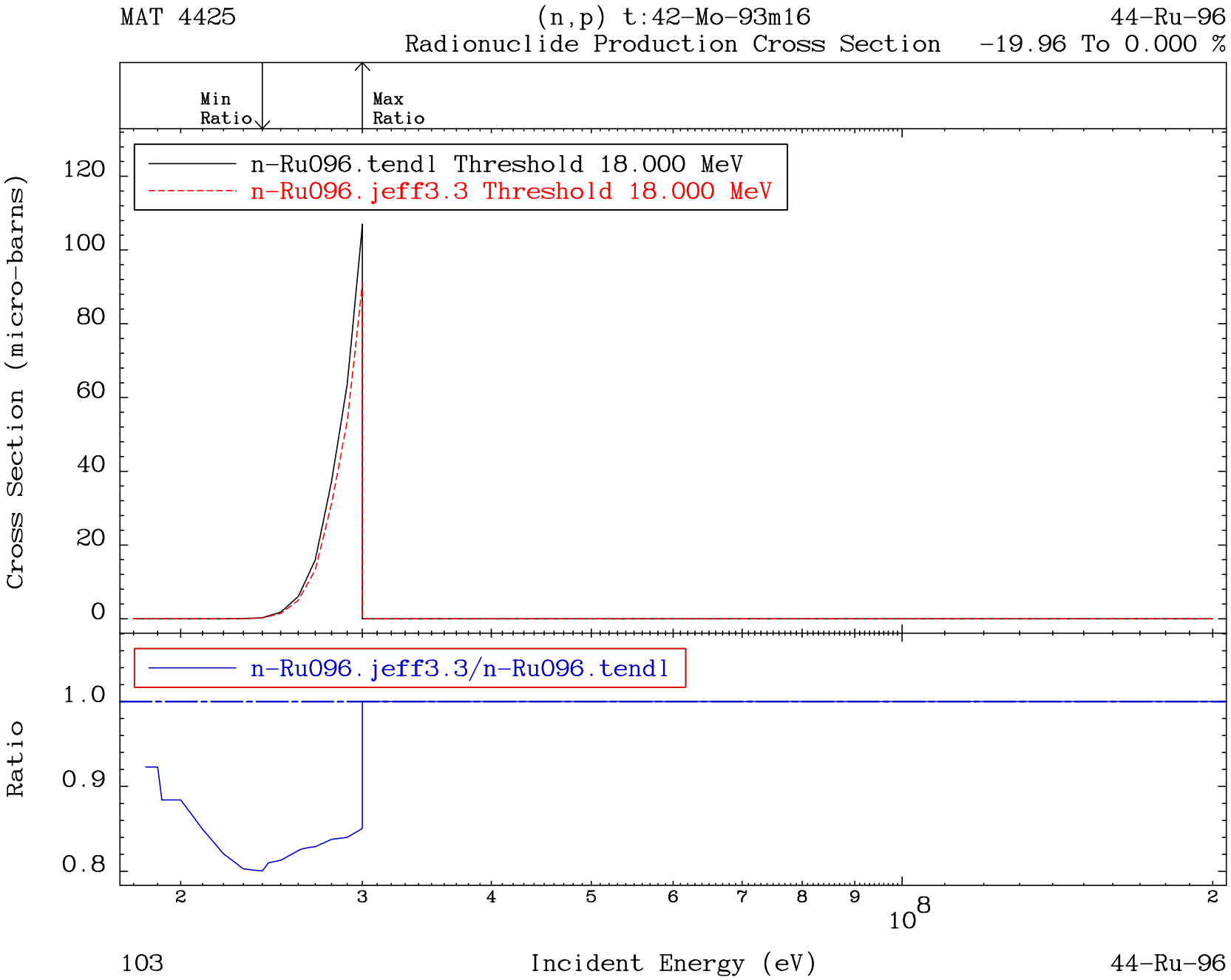

MAT 4425
(n,t):43-Tc-94g
44-Ru-96
Radionuclide Production Cross Section -13.07 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 8.8931 MeV
n-Ru096.jeff3.3 Threshold 8.8931 MeV
Cross Section (milli-barns)
0
2
4
6
8
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
0.90
0.95
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
98
Incident Energy (eV)
44-Ru-96

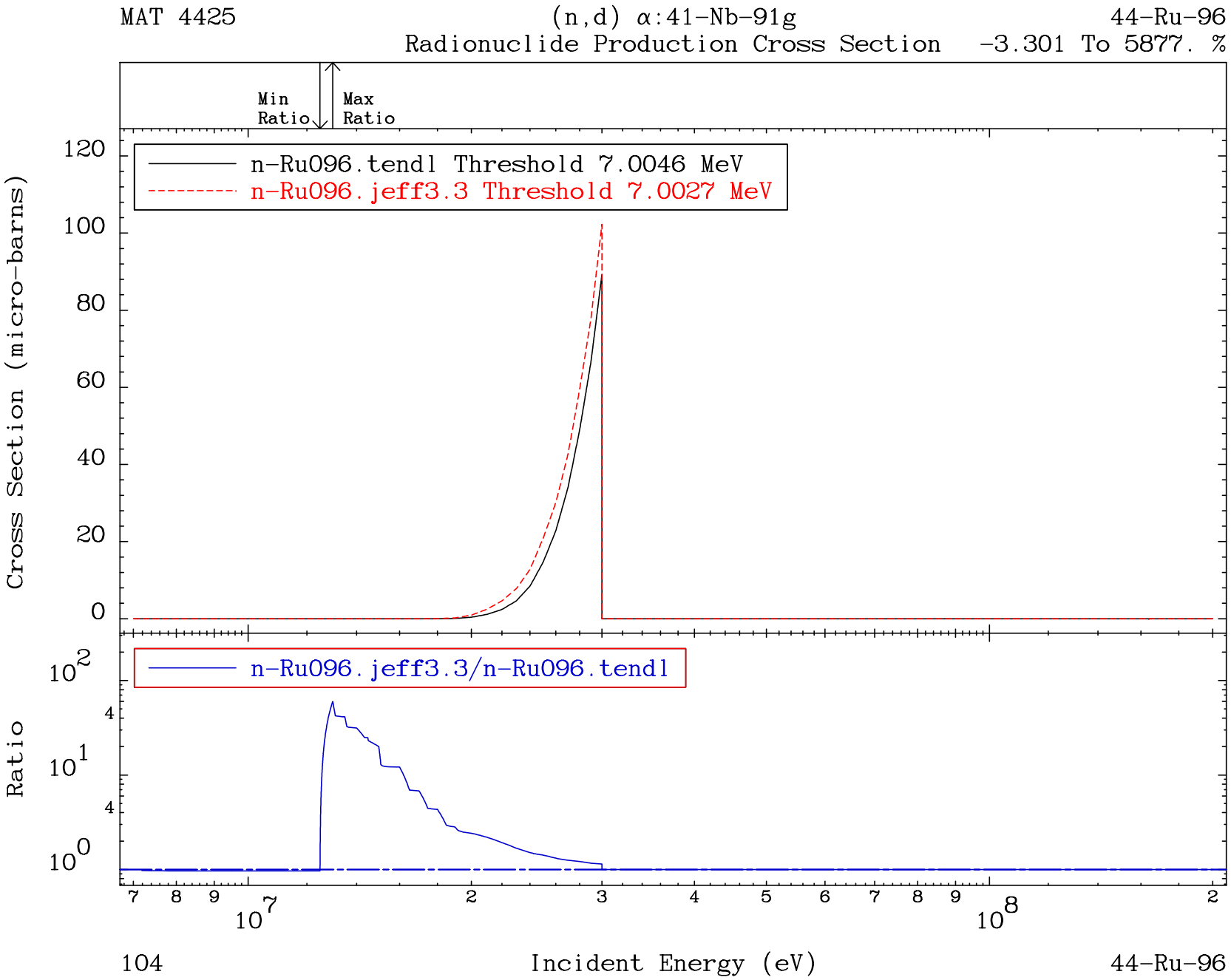

MAT 4425
(n,t):43-Tc-94m1
44-Ru-96
Radionuclide Production Cross Section -12.33 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 8.9699 MeV
n-Ru096.jeff3.3 Threshold 8.9699 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.00
0.95
0.90
9
10^7
2
3
4
5
6
7
8
9
10^8
2
99
Incident Energy (eV)
44-Ru-96

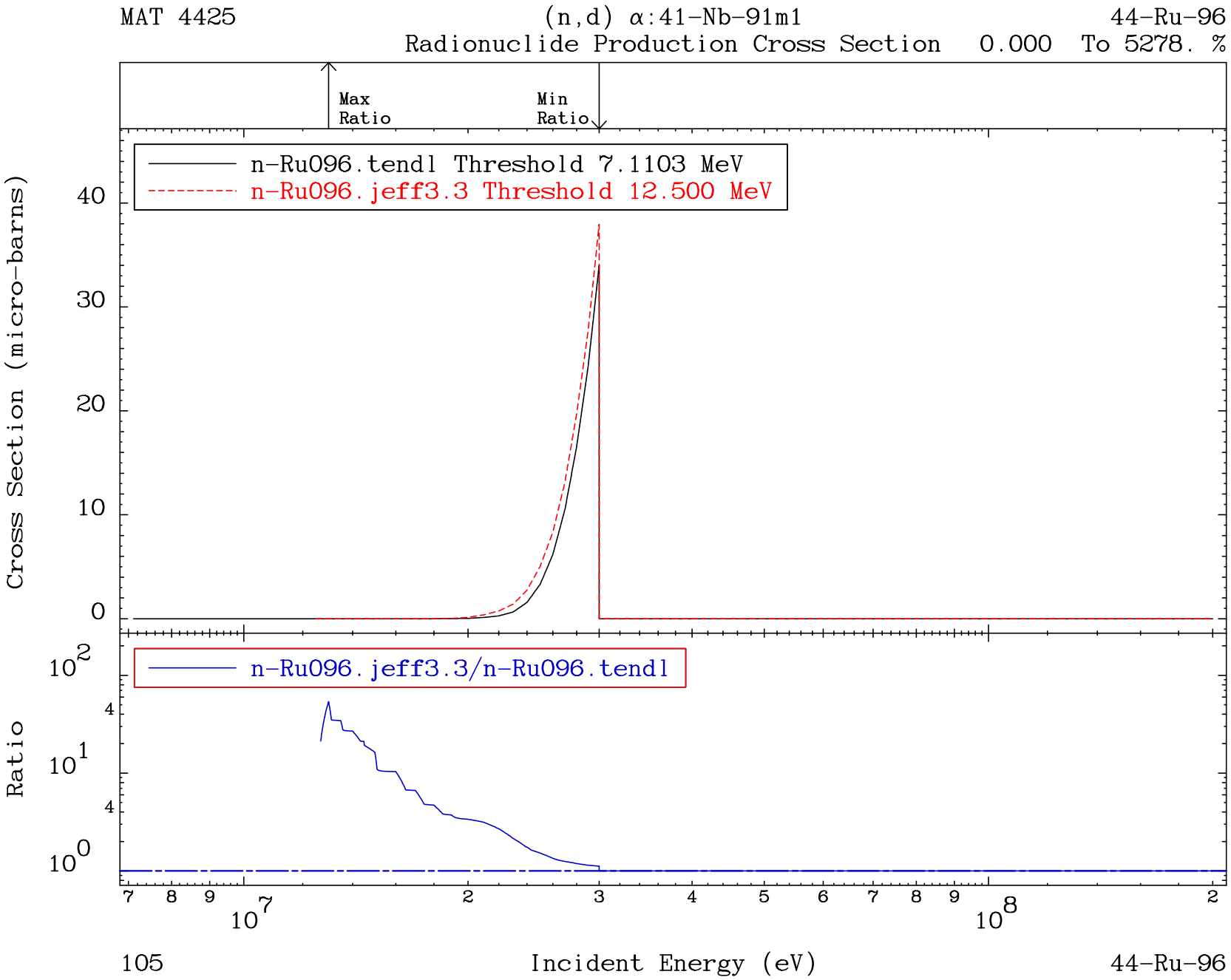

MAT 4425
(n,p) α:41-Nb-92g
44-Ru-96
Radionuclide Production Cross Section -15.79 To 9999. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 1.2830 MeV
n-Ru096.jeff3.3 Threshold 1.2813 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
100
Incident Energy (eV)
44-Ru-96


MAT 4425
(n,p) α:41-Nb-92m1
44-Ru-96
Radionuclide Production Cross Section -14.28 To 8856. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 6.2000 MeV
n-Ru096.jeff3.3 Threshold 5.8000 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
10^1
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
101
Incident Energy (eV)
44-Ru-96


MAT 4425
(n,p) t:42-Mo-93g
44-Ru-96
Radionuclide Production Cross Section -16.30 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 13.582 MeV
n-Ru096.jeff3.3 Threshold 13.582 MeV
Cross Section (milli-barns)
0.0
0.2
0.4
0.6
0.8
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.05
1.00
0.95
0.90
0.85
2
3
4
5
6
7
8
9
10^8
2
102
Incident Energy (eV)
44-Ru-96


MAT 4425
(n,p) t:42-Mo-93m16
44-Ru-96
Radionuclide Production Cross Section -19.96 To 0.000 %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 18.000 MeV
n-Ru096.jeff3.3 Threshold 18.000 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
1.0
0.9
0.8
2
3
4
5
6
7
8
9
10^8
2
103
Incident Energy (eV)
44-Ru-96


MAT 4425
(n,d) α:41-Nb-91g
44-Ru-96
Radionuclide Production Cross Section -3.301 To 5877. %
Min Ratio
Max Ratio
n-Ru096.tendl Threshold 7.0046 MeV
n-Ru096.jeff3.3 Threshold 7.0027 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
10^1
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
104
Incident Energy (eV)
44-Ru-96


MAT 4425
(n,d) α:41-Nb-91m1
44-Ru-96
Radionuclide Production Cross Section 0.000 To 5278. %
Max Ratio
Min Ratio
n-Ru096.tendl Threshold 7.1103 MeV
n-Ru096.jeff3.3 Threshold 12.500 MeV
Cross Section (micro-barns)
40
30
20
10
0
n-Ru096.jeff3.3/n-Ru096.tendl
Ratio
10^2
4
10^1
4
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
105
Incident Energy (eV)
44-Ru-96