Program Complot
(Version 2018-1)
by
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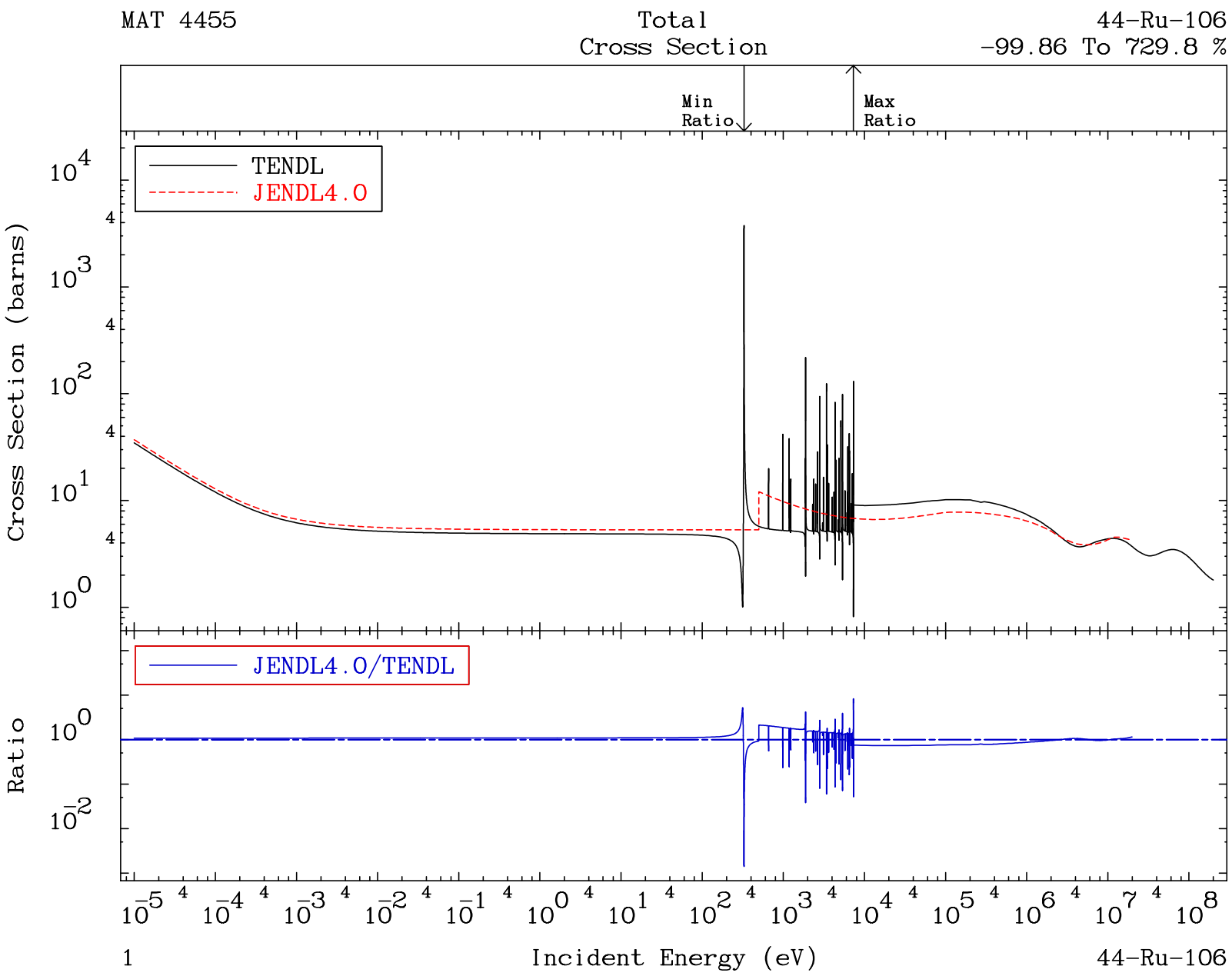
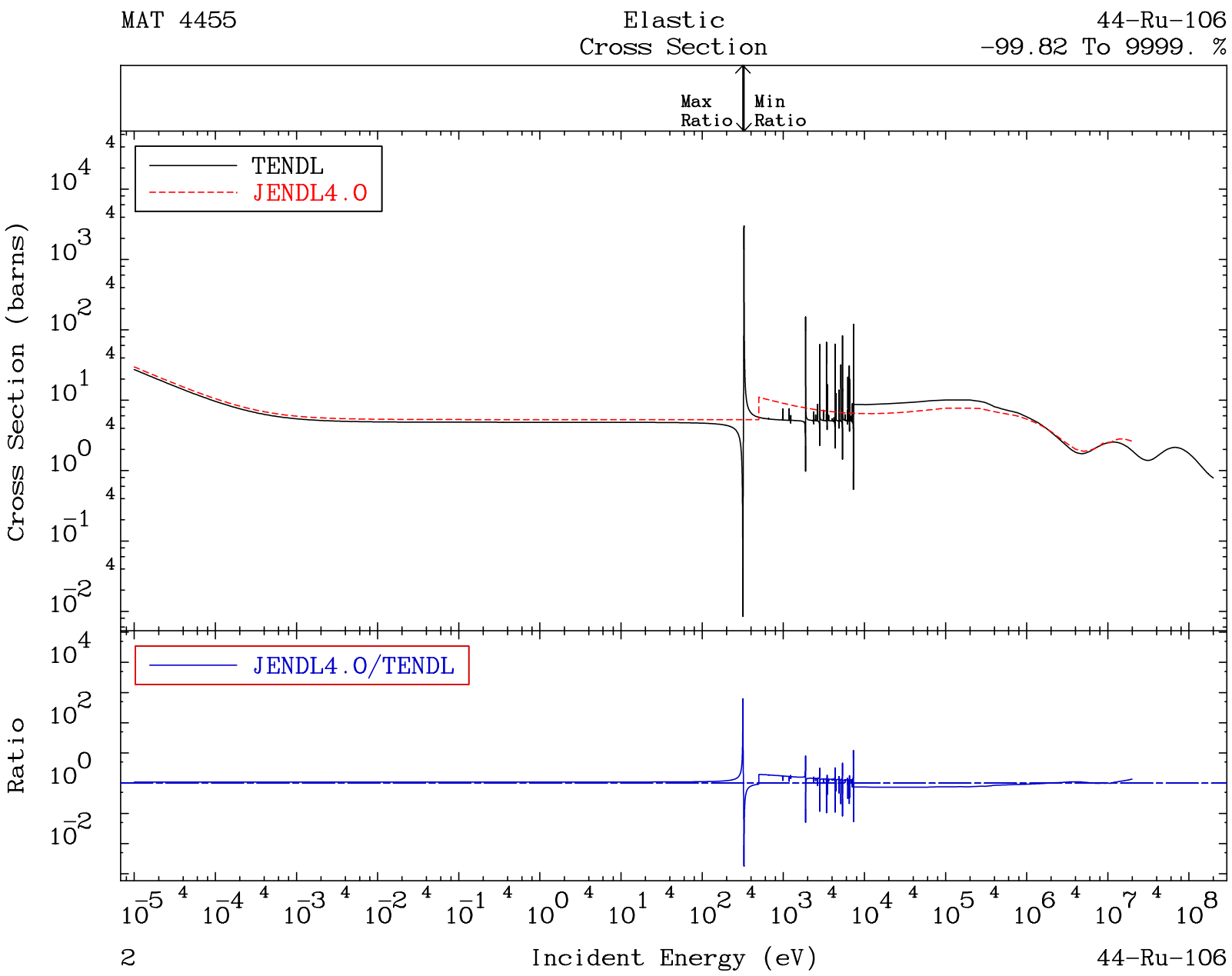
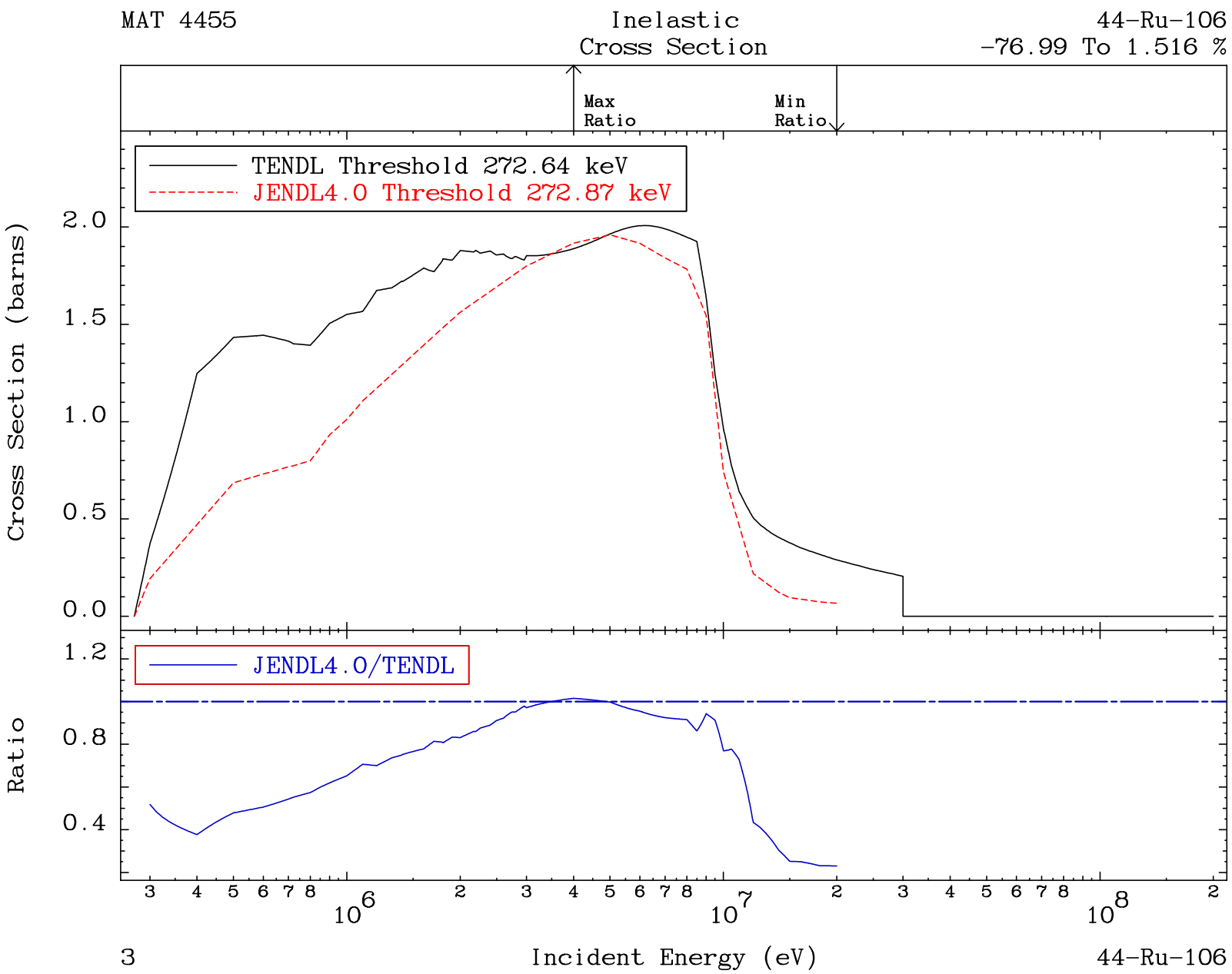
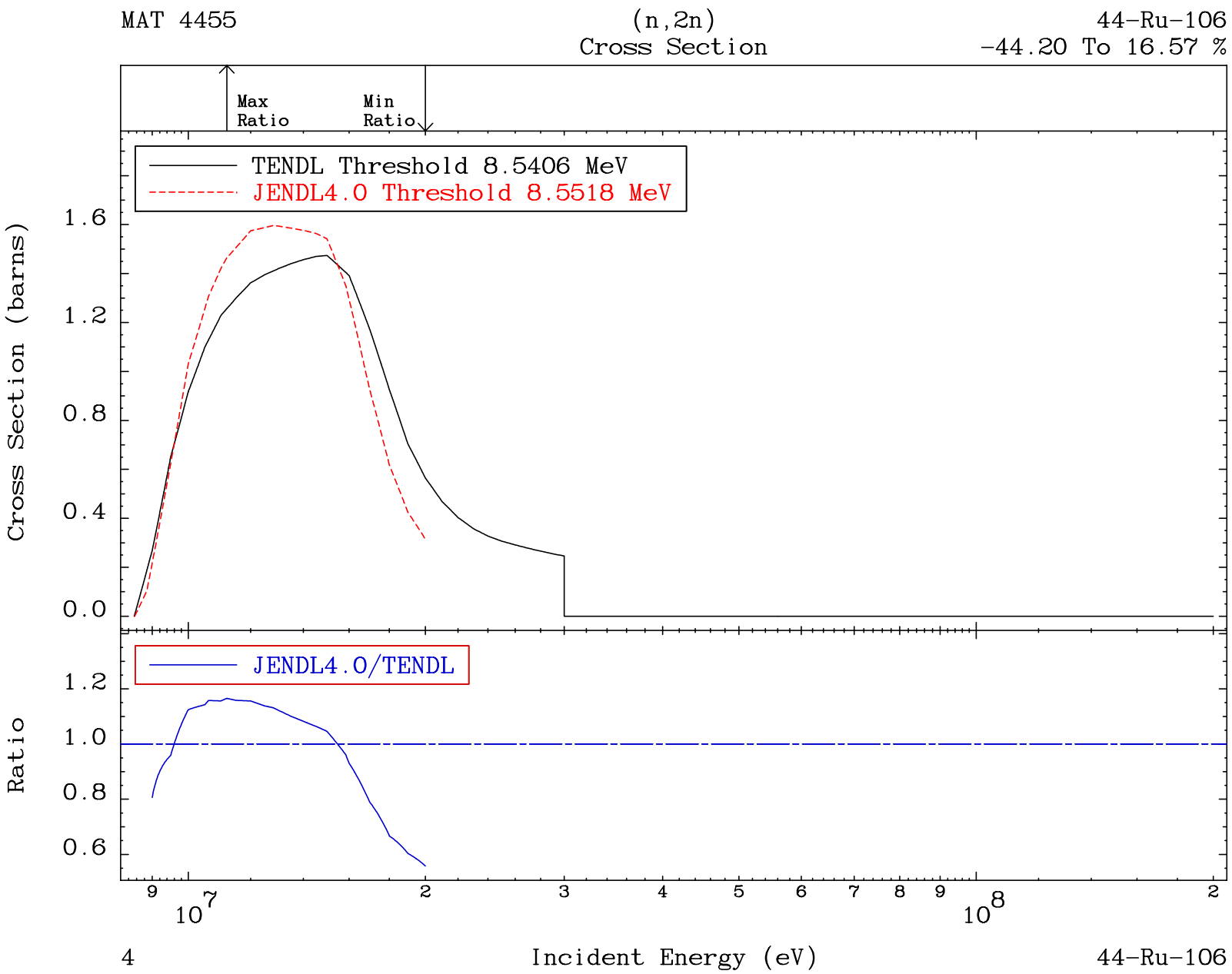
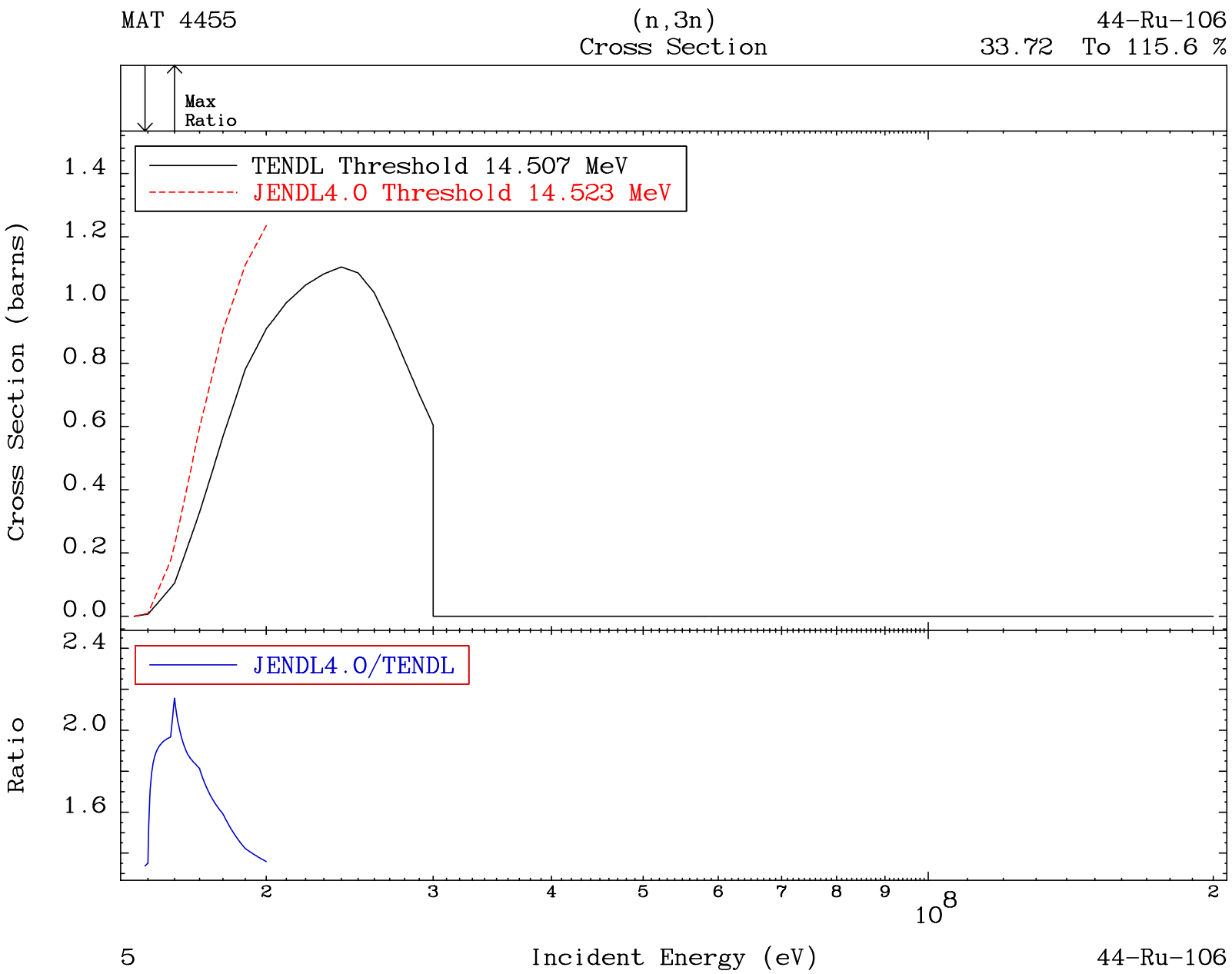
Press Mouse Button to Start

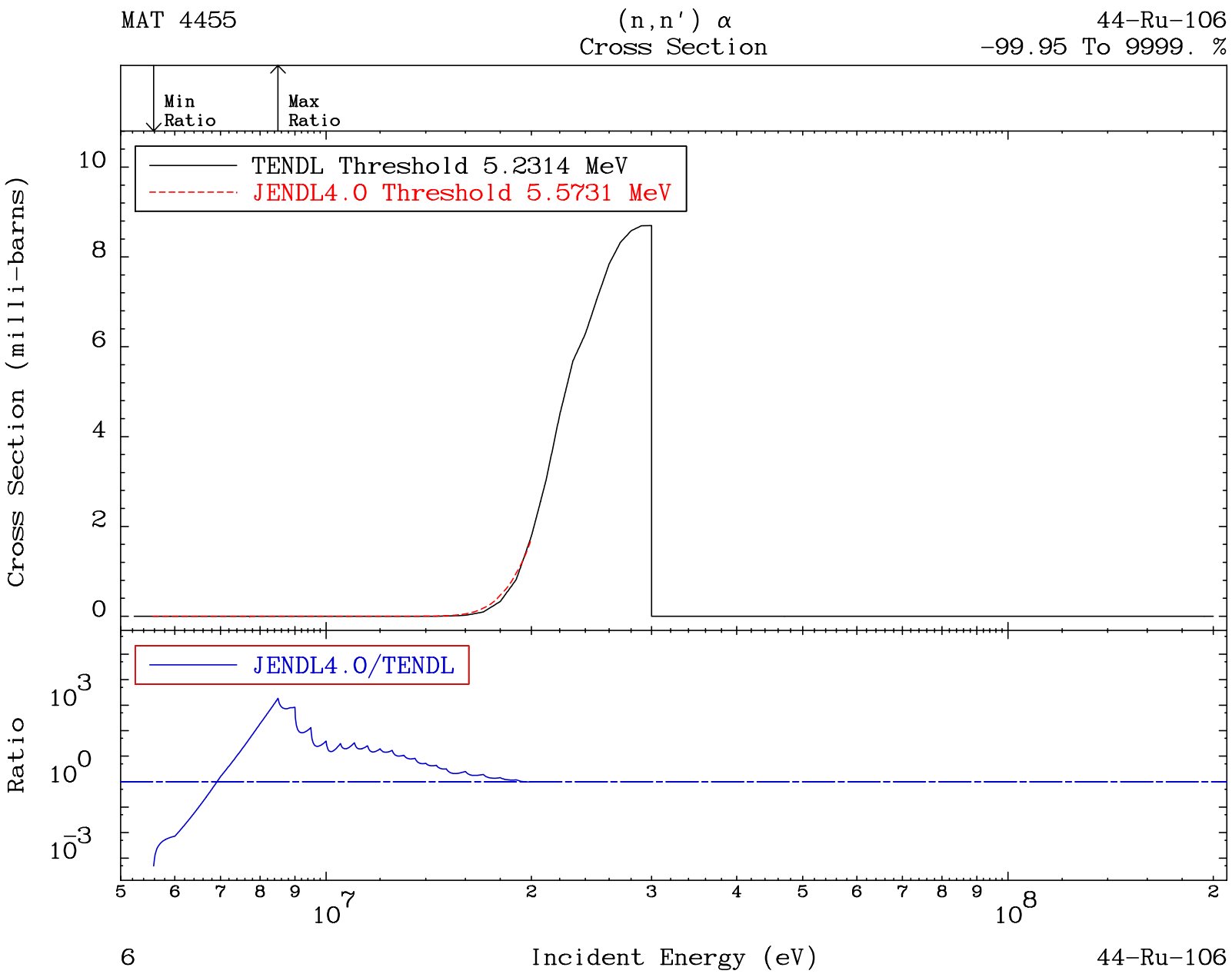

MAT 4455
Total
Cross Section
44-Ru-106
-99.86 To 729.8 %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
44-Ru-106

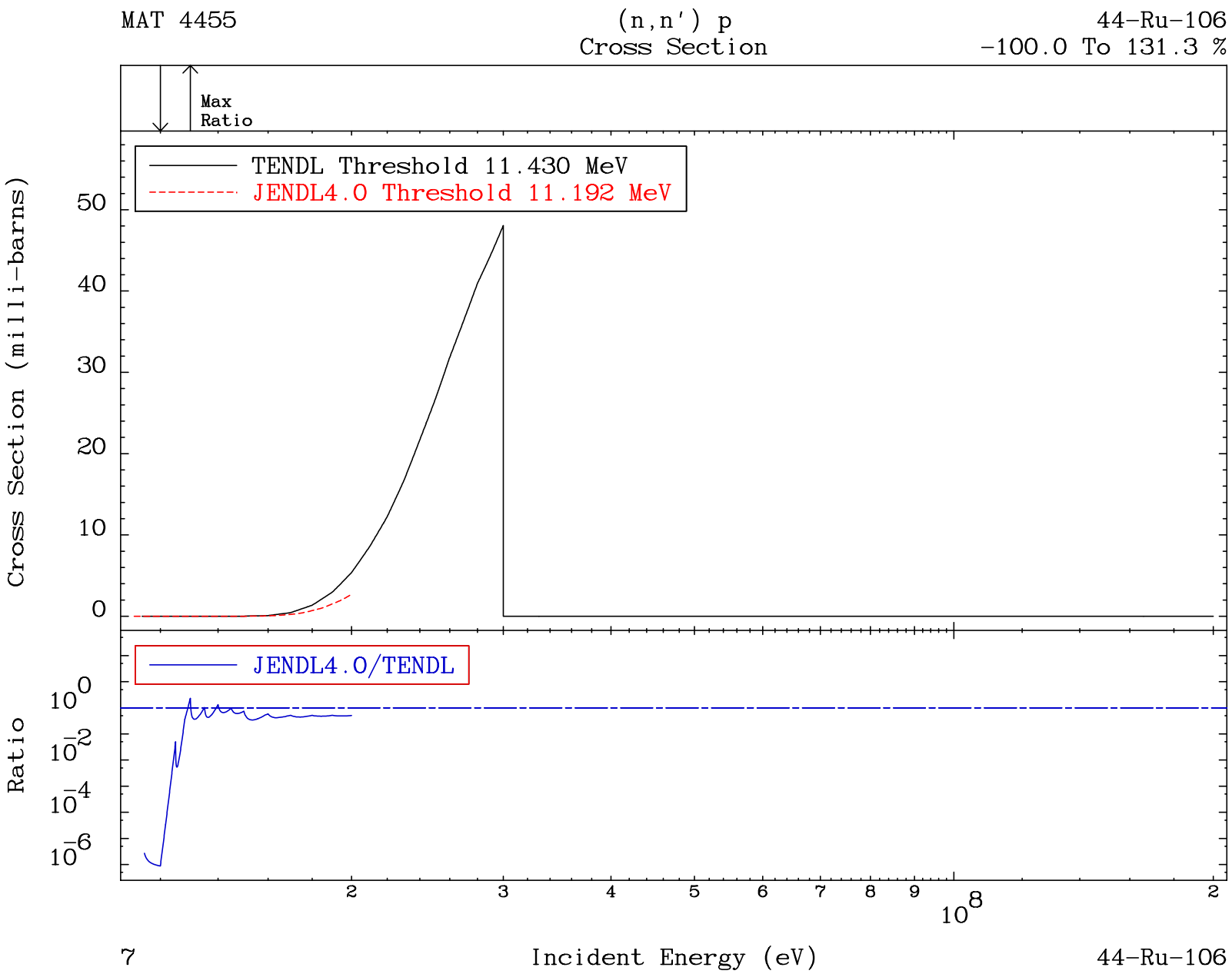

MAT 4455
Elastic
Cross Section
44-Ru-106
-99.82 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
44-Ru-106

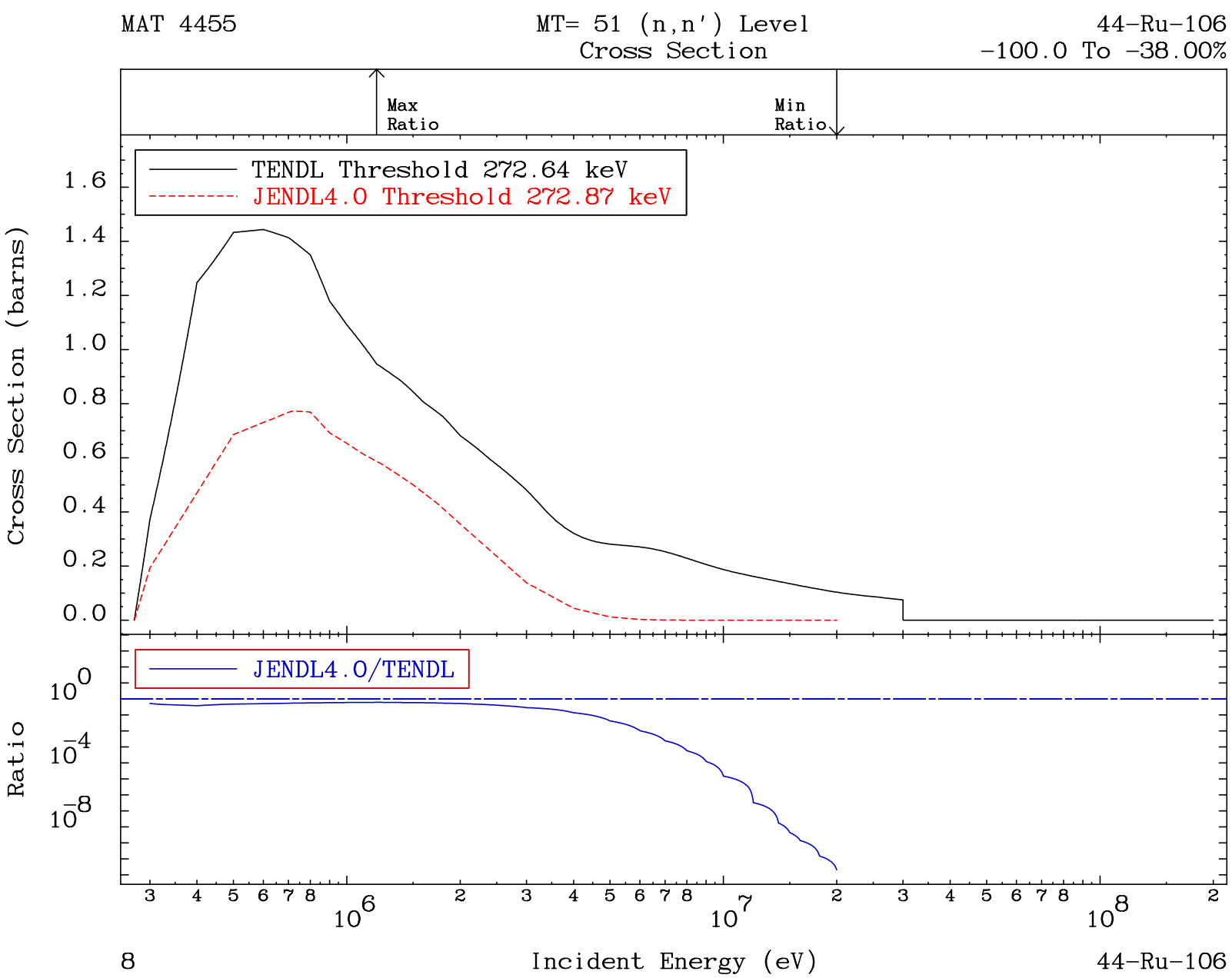

MAT 4455
Inelastic
Cross Section
44-Ru-106
-76.99 To 1.516 %
Max
Ratio
Min
Ratio
TENDL Threshold 272.64 keV
JENDL4.0 Threshold 272.87 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
44-Ru-106

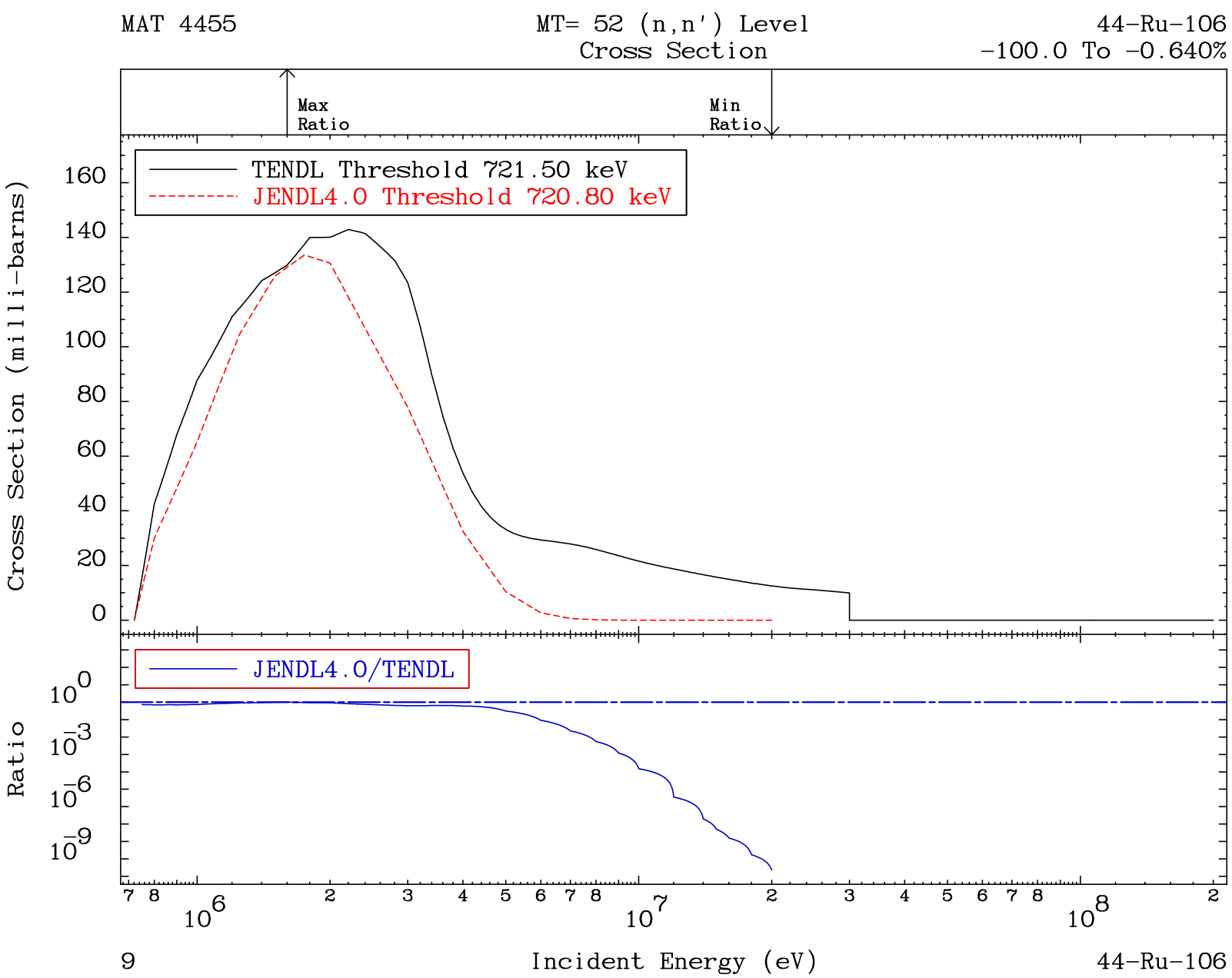

MAT 4455
(n,2n)
Cross Section
44-Ru-106
-44.20 To 16.57 %
Max Ratio
Min Ratio
TENDL Threshold 8.5406 MeV
JENDL4.0 Threshold 8.5518 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
44-Ru-106

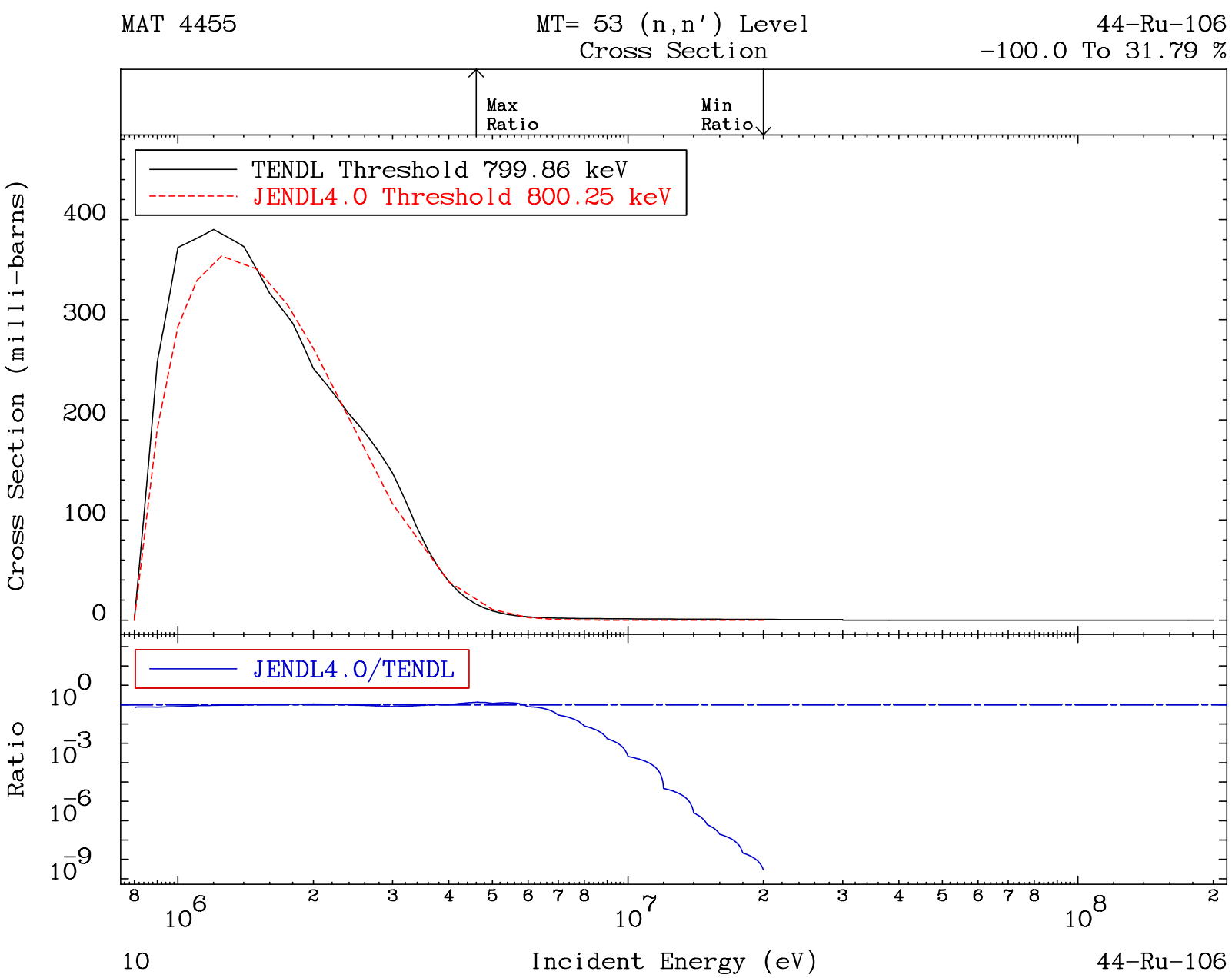

MAT 4455
(n,3n)
Cross Section
44-Ru-106
33.72 To 115.6 %
Max
Ratio
TENDL Threshold 14.507 MeV
JENDL4.0 Threshold 14.523 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
2.4
2.0
1.6
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
44-Ru-106

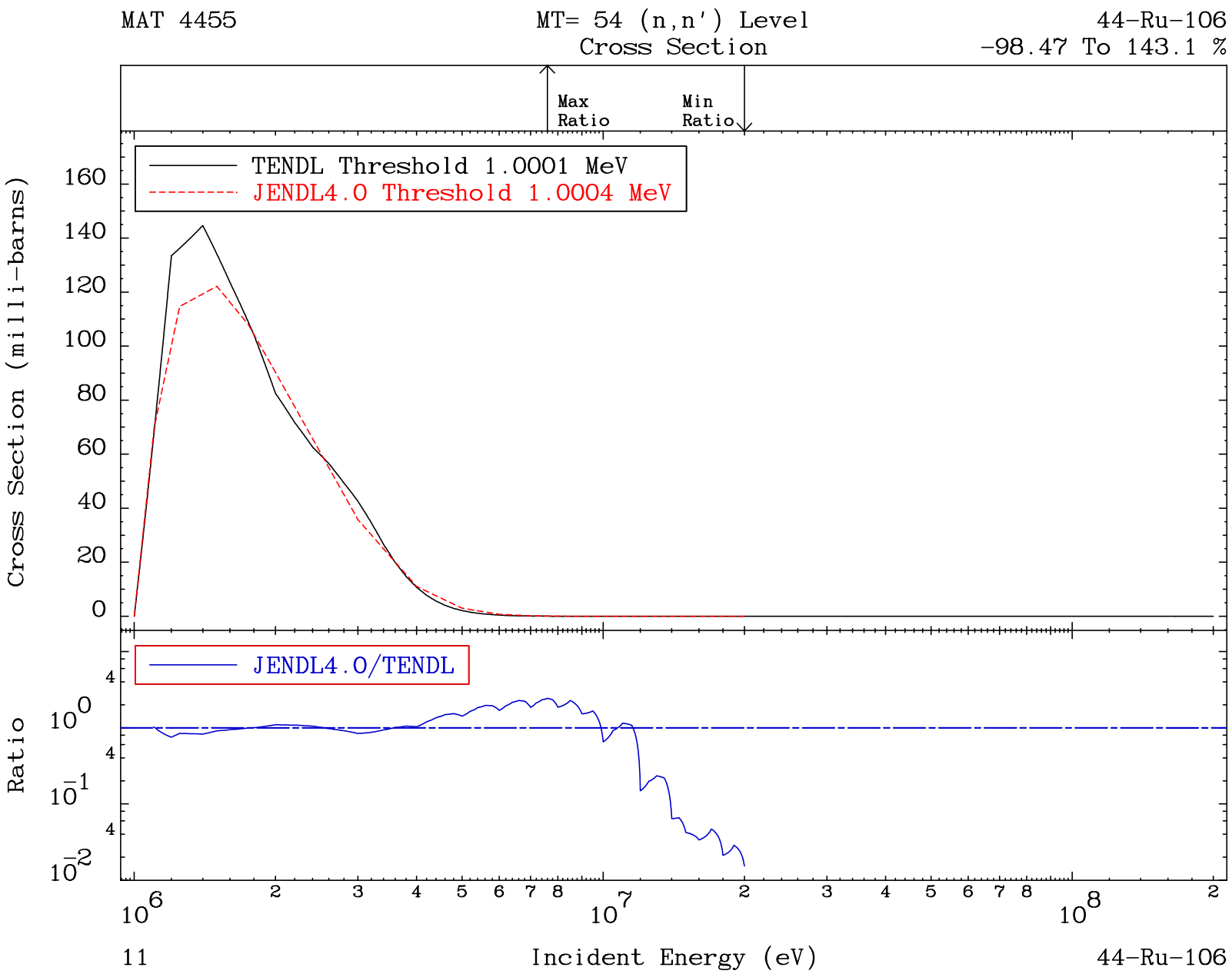

MAT 4455
(n,n') α
Cross Section
44-Ru-106
-99.95 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.2314 MeV
JENDL4.0 Threshold 5.5731 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
6
44-Ru-106

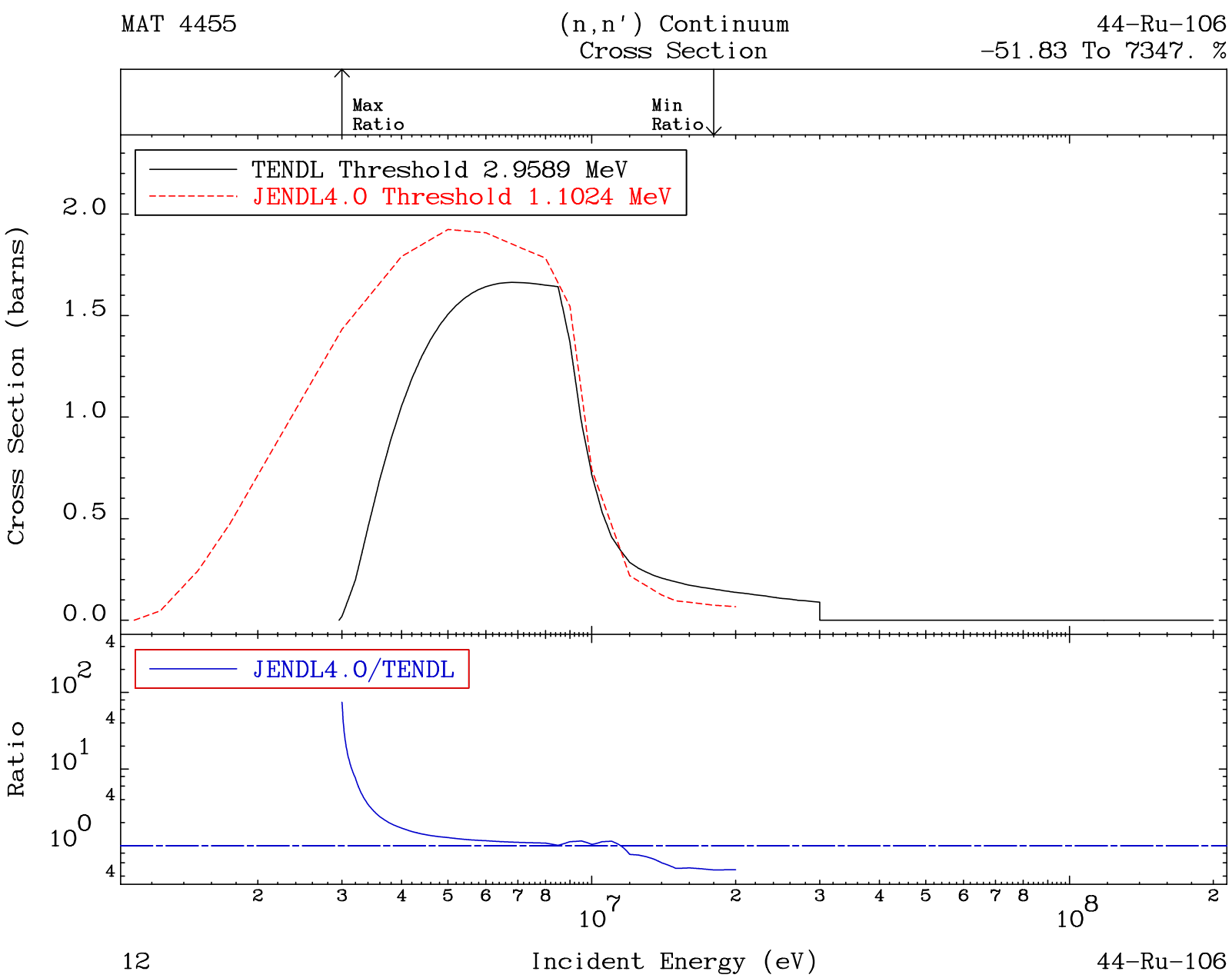

MAT 4455
(n,n') p
Cross Section
44-Ru-106
-100.0 To 131.3 %
Max
Ratio
TENDL Threshold 11.430 MeV
JENDL4.0 Threshold 11.192 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
10^-6
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
44-Ru-106

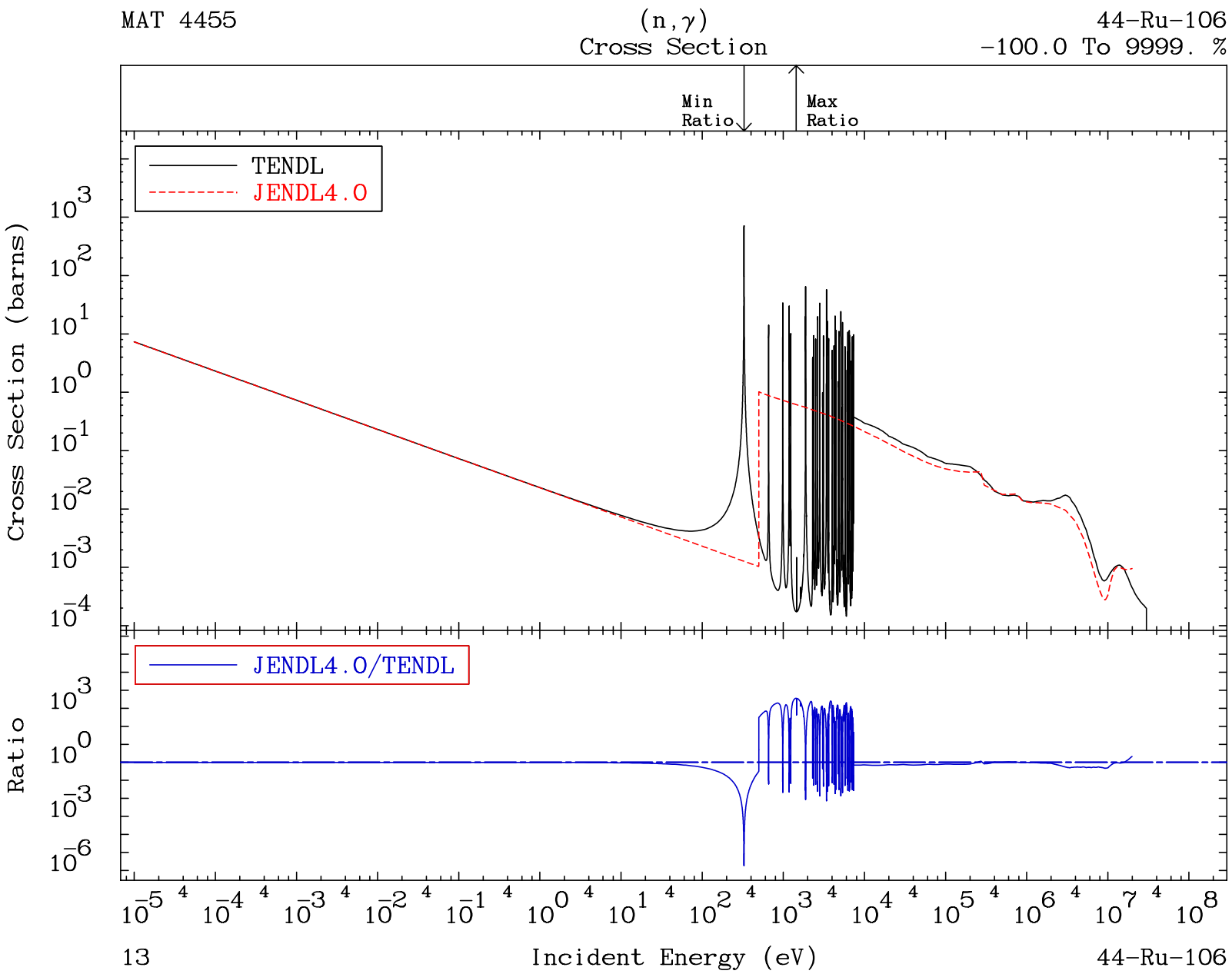

MAT 4455
MT= 51 (n,n') Level
Cross Section
44-Ru-106
-100.0 To -38.00%
Max
Ratio
Min
Ratio
TENDL Threshold 272.64 keV
JENDL4.0 Threshold 272.87 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^0
10^-4
10^-8
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
44-Ru-106

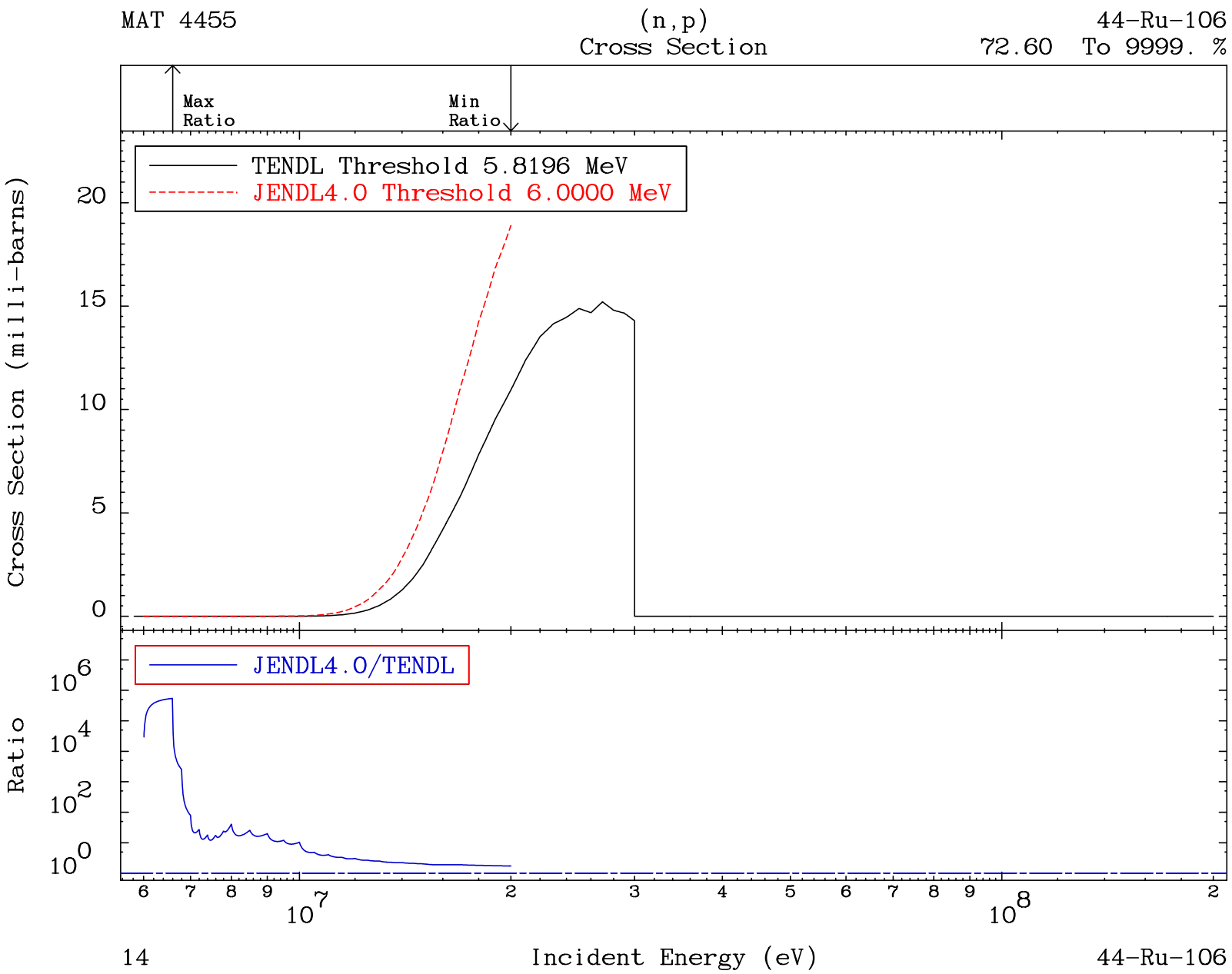

MAT 4455
MT= 52 (n,n') Level
Cross Section
44-Ru-106
-100.0 To -0.640%
Max
Ratio
Min
Ratio
TENDL Threshold 721.50 keV
JENDL4.0 Threshold 720.80 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
10^-9
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
44-Ru-106

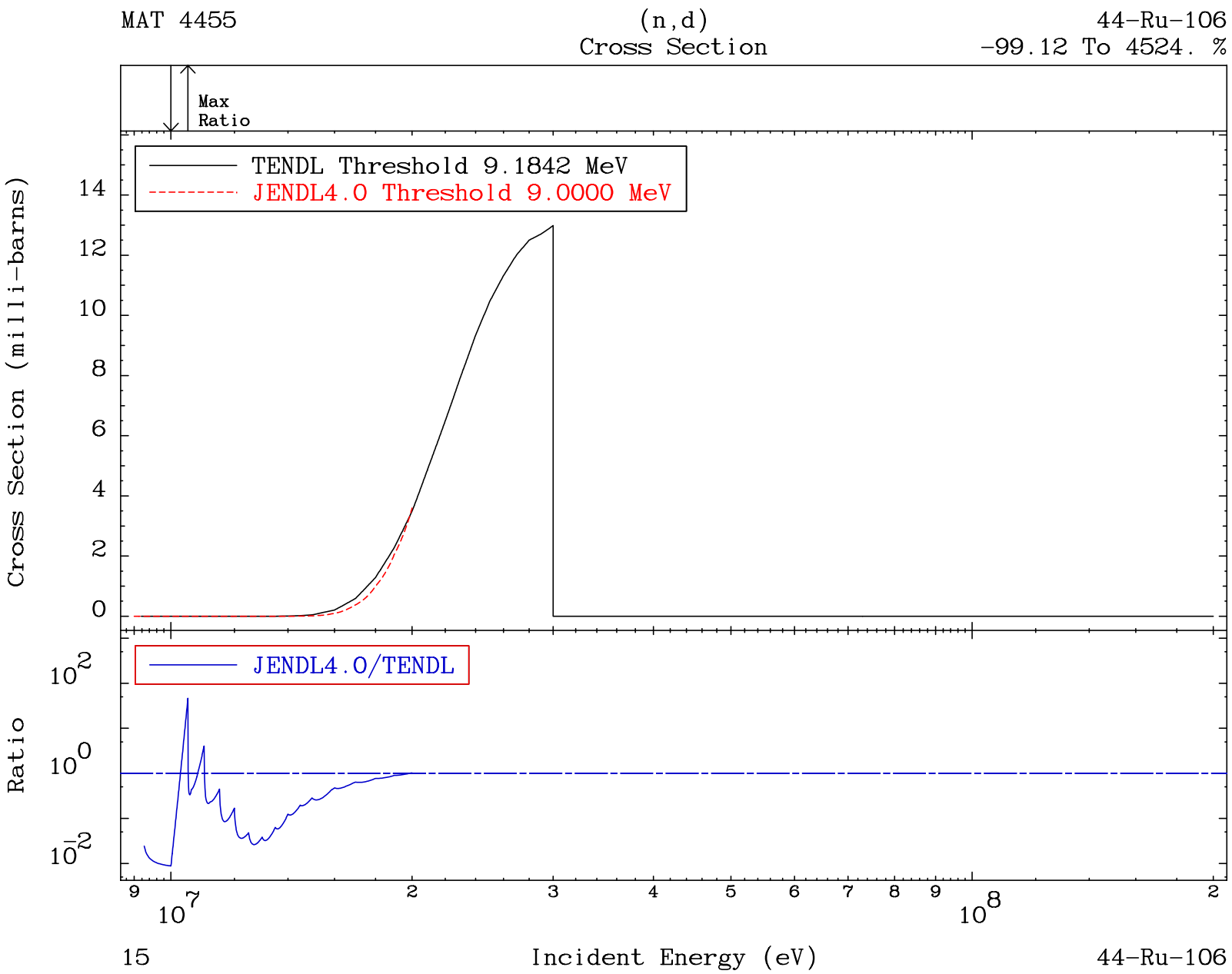

MAT 4455
MT= 53 (n,n') Level
Cross Section
44-Ru-106
-100.0 To 31.79 %
Max
Ratio
Min
Ratio
TENDL Threshold 799.86 keV
JENDL4.0 Threshold 800.25 keV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^0
10^-3
10^-6
10^-9
10^6
10^7
10^8
Incident Energy (eV)
10
44-Ru-106

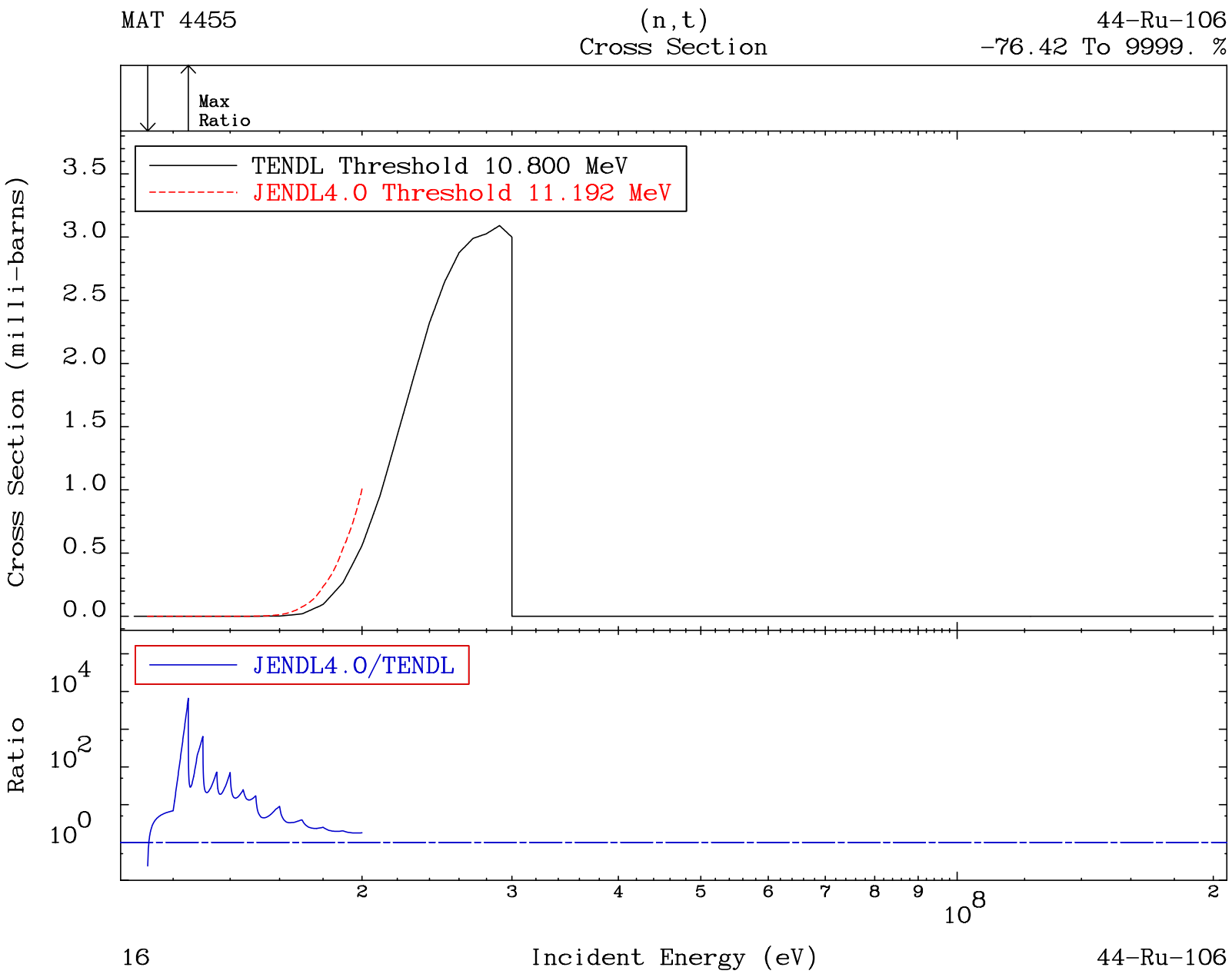

MAT 4455
MT= 54 (n,n') Level
Cross Section
44-Ru-106
-98.47 To 143.1 %
Max Ratio
Min Ratio
TENDL Threshold 1.0001 MeV
JENDL4.0 Threshold 1.0004 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^6
10^7
10^8
11
Incident Energy (eV)
44-Ru-106

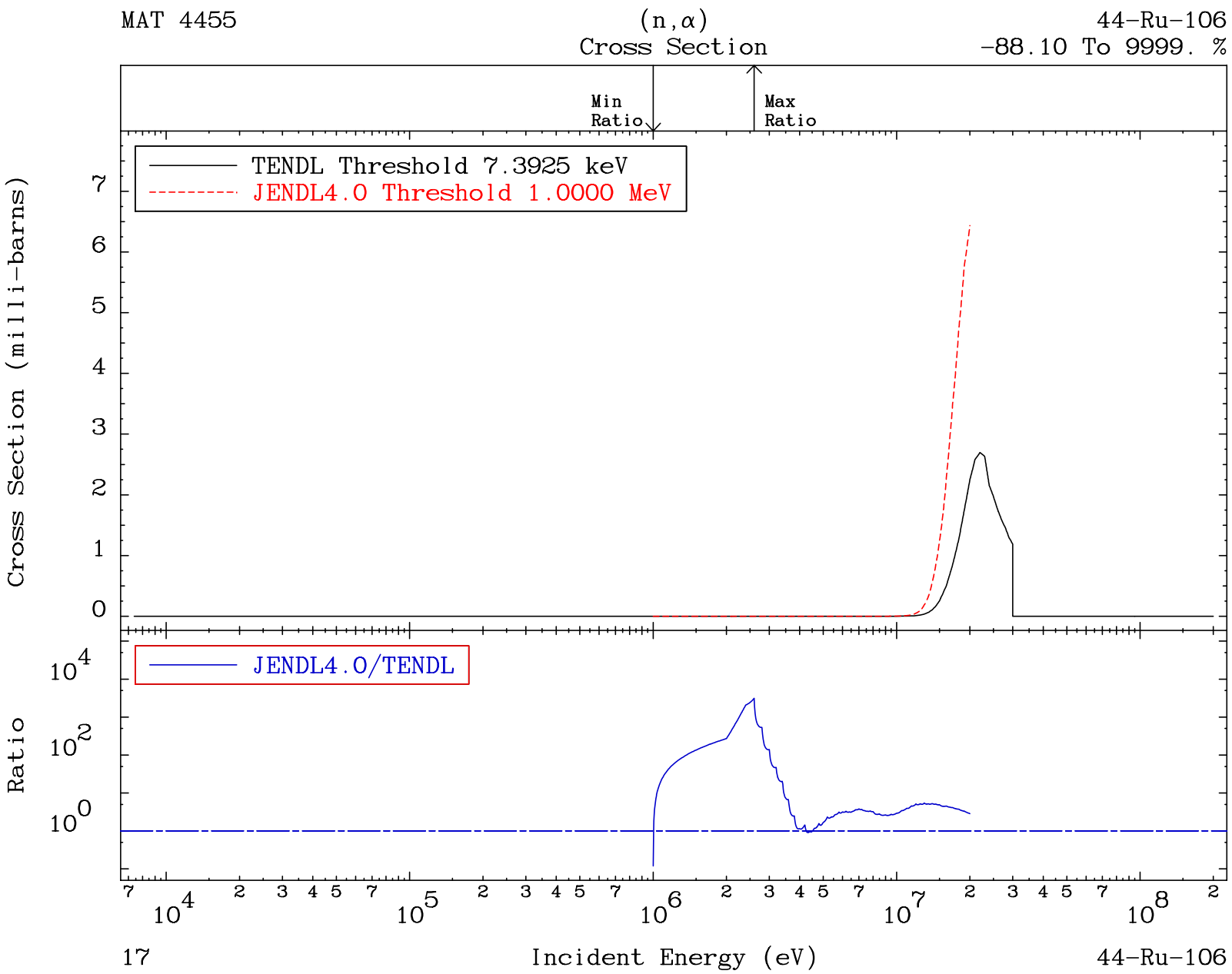

MAT 4455
(n,n') Continuum
Cross Section
44-Ru-106
-51.83 To 7347. %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9589 MeV
JENDL4.0 Threshold 1.1024 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
44-Ru-106

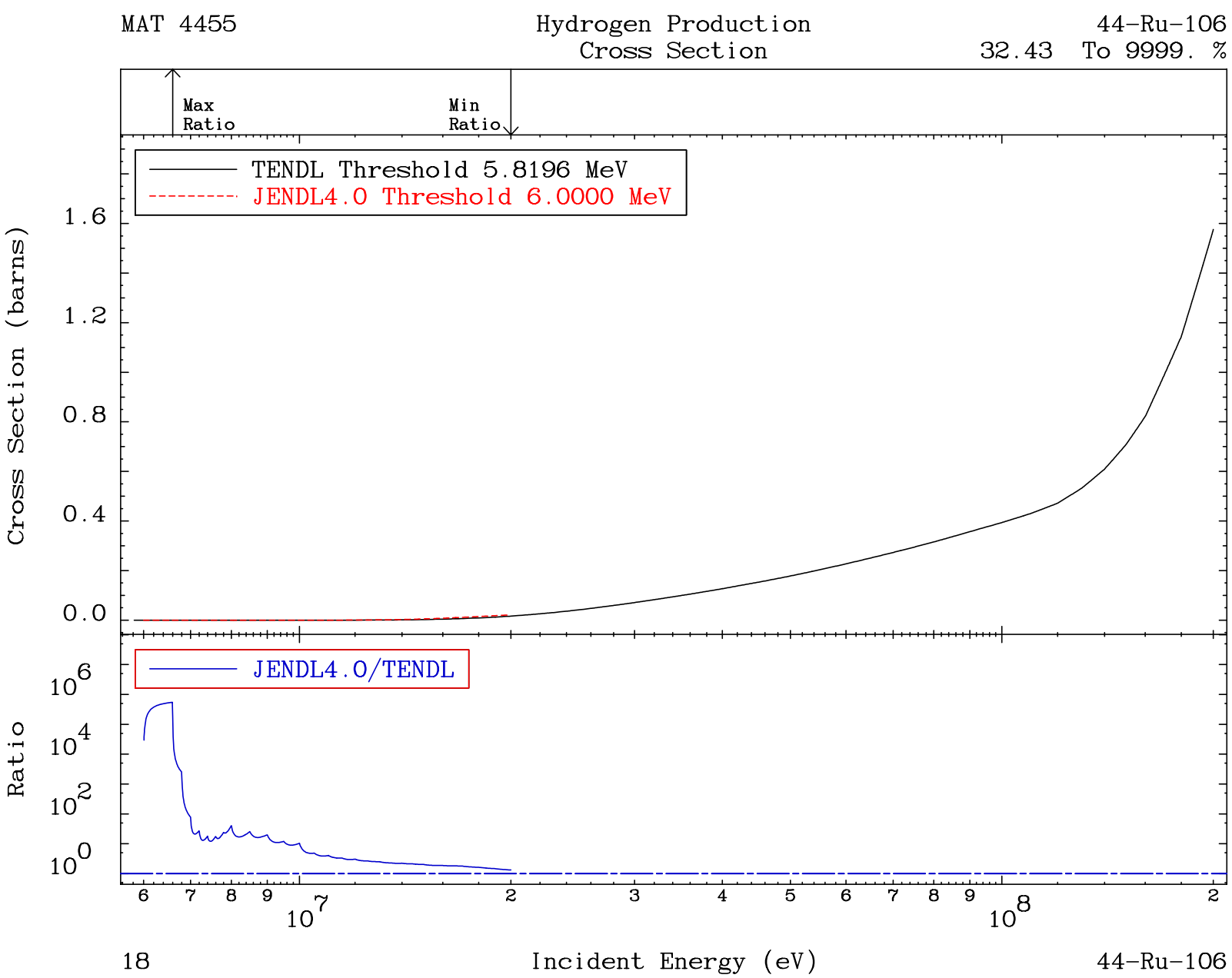

MAT 4455
(n,γ)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
13
44-Ru-106

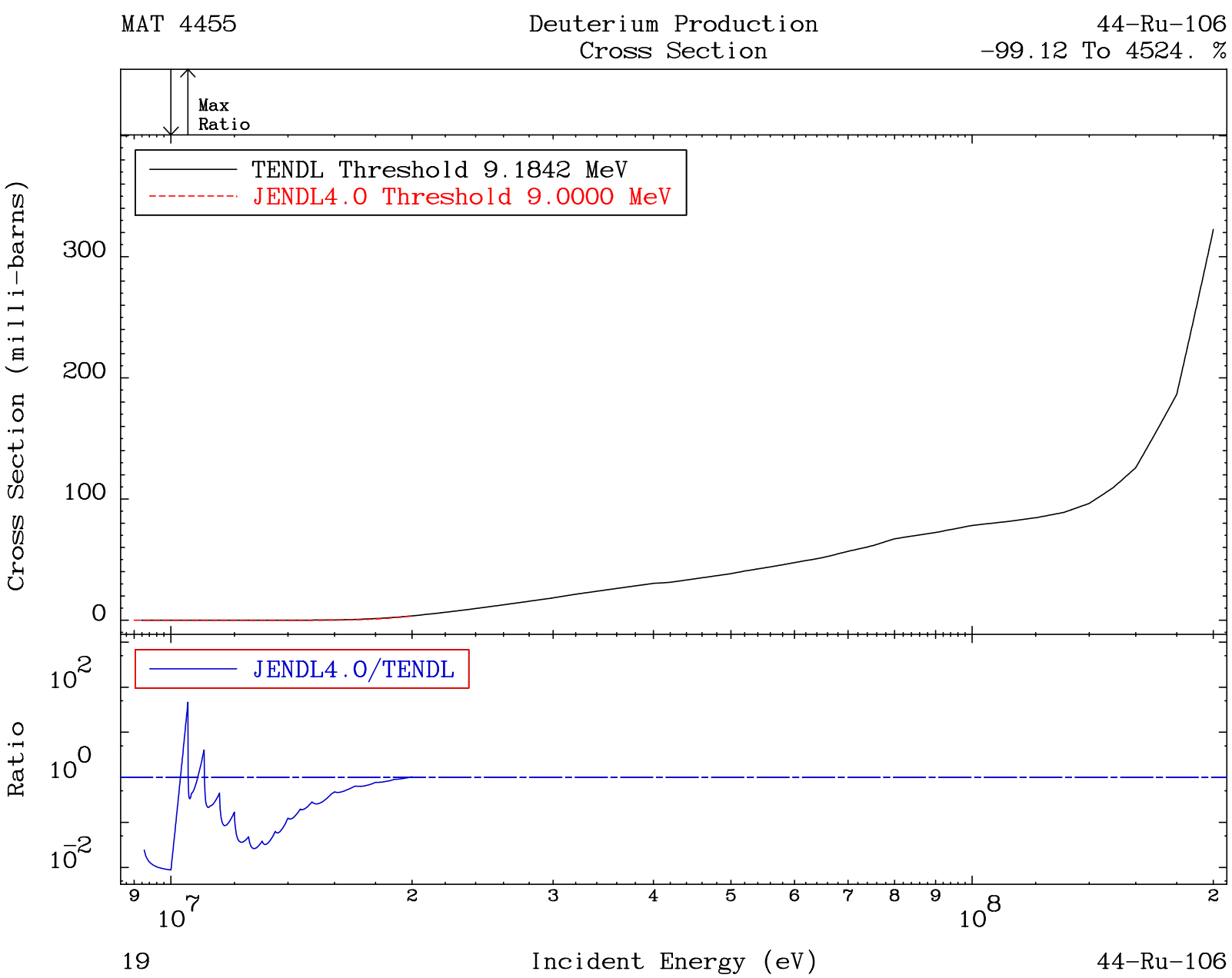

MAT 4455
(n,p)
Cross Section
44-Ru-106
72.60 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.8196 MeV
JENDL4.0 Threshold 6.0000 MeV
Cross Section (milli-barns)
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
44-Ru-106

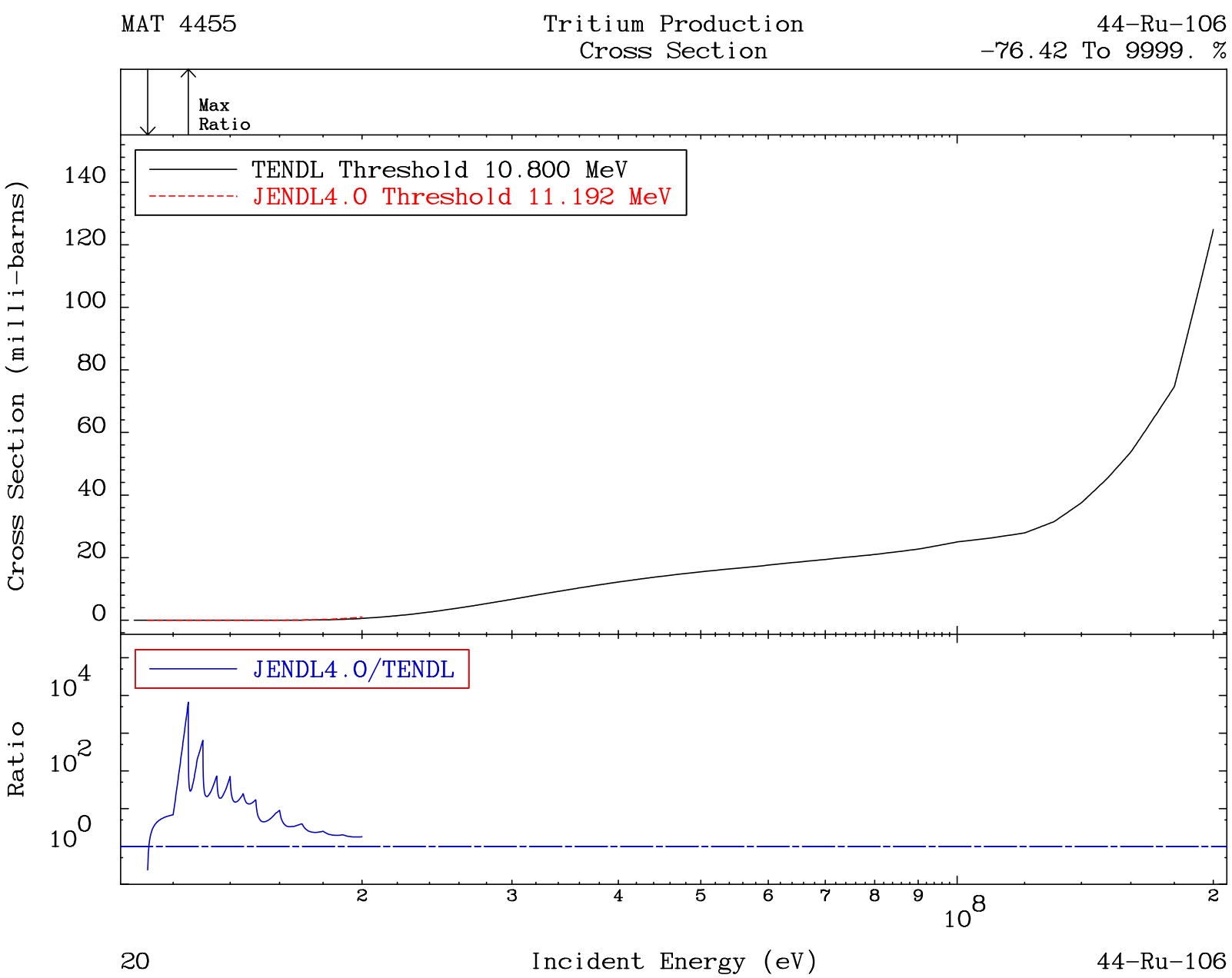

MAT 4455
(n,d)
Cross Section
44-Ru-106
-99.12 To 4524. %
Max
Ratio
TENDL Threshold 9.1842 MeV
JENDL4.0 Threshold 9.0000 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
44-Ru-106

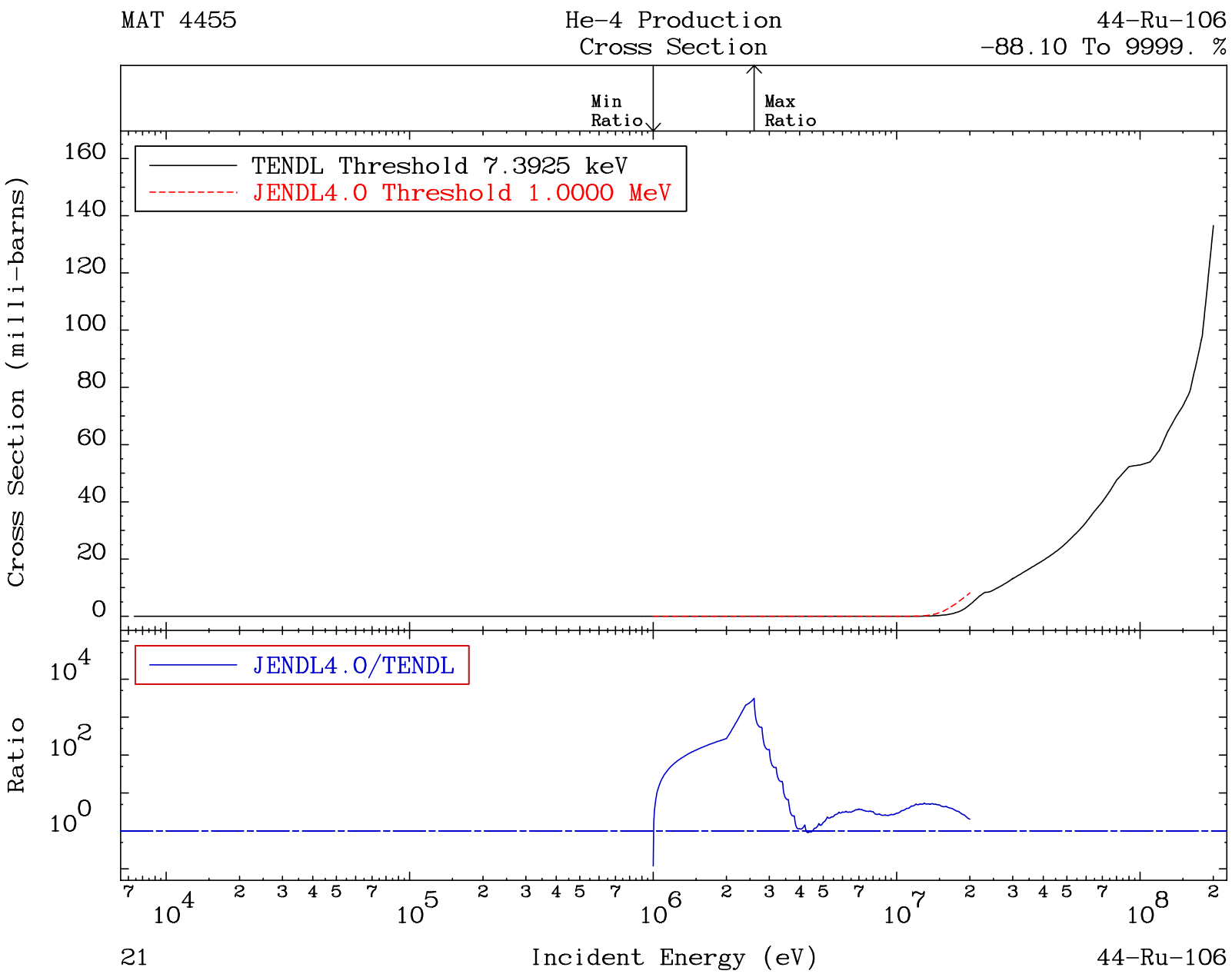

MAT 4455
(n,t)
Cross Section
44-Ru-106
-76.42 To 9999. %
Max
Ratio
TENDL Threshold 10.800 MeV
JENDL4.0 Threshold 11.192 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
44-Ru-106

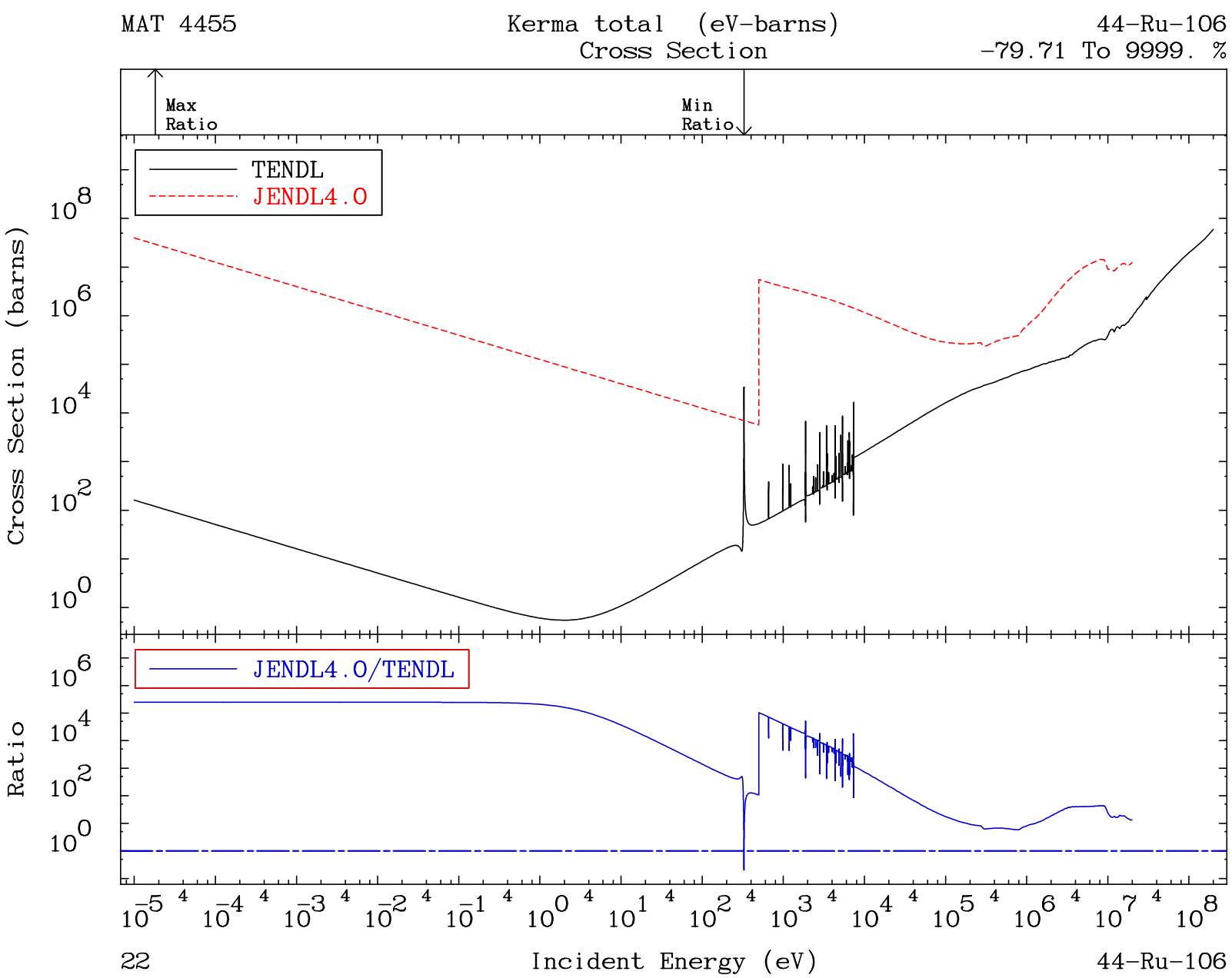

MAT 4455
(n,α)
Cross Section
44-Ru-106
-88.10 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.3925 keV
JENDL4.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
17
44-Ru-106

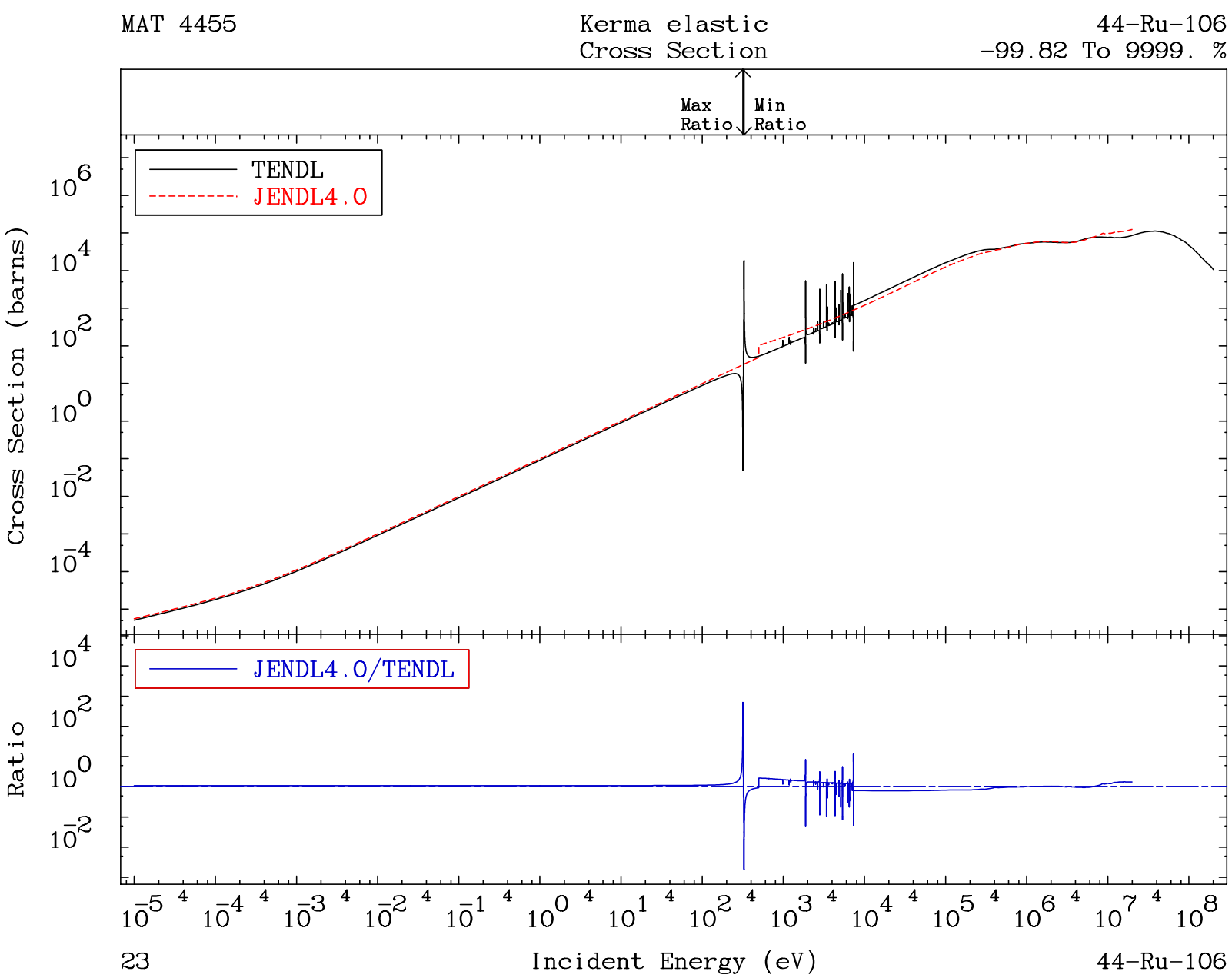

MAT 4455
Hydrogen Production
Cross Section
44-Ru-106
32.43 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.8196 MeV
JENDL4.0 Threshold 6.0000 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
44-Ru-106

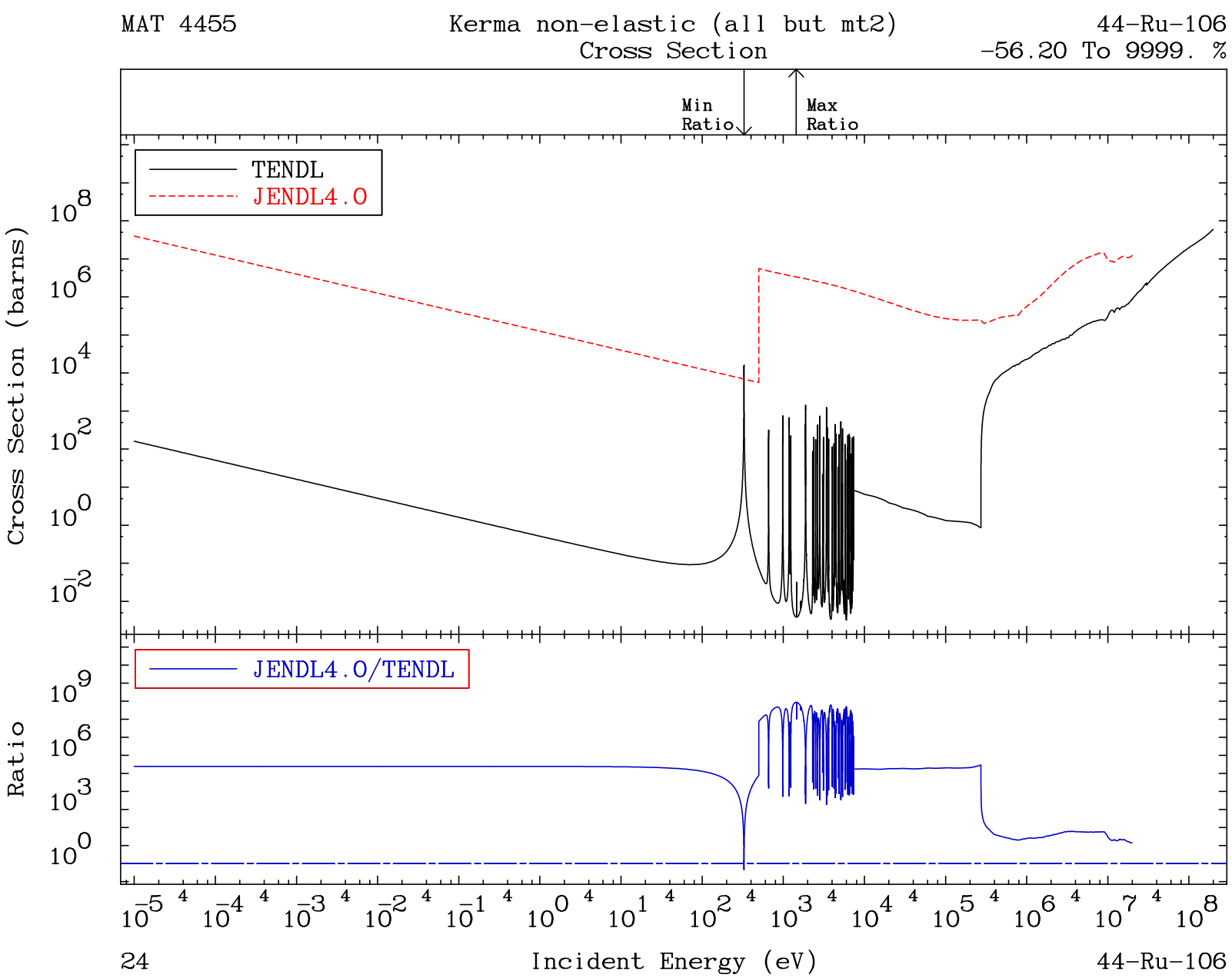

MAT 4455
Deuterium Production
Cross Section
44-Ru-106
-99.12 To 4524. %
Max
Ratio
TENDL Threshold 9.1842 MeV
JENDL4.0 Threshold 9.0000 MeV
Cross Section (milli-barns)
300
200
100
0
JENDL4.0/TENDL
Ratio
10^2
10^0
10^-2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
44-Ru-106

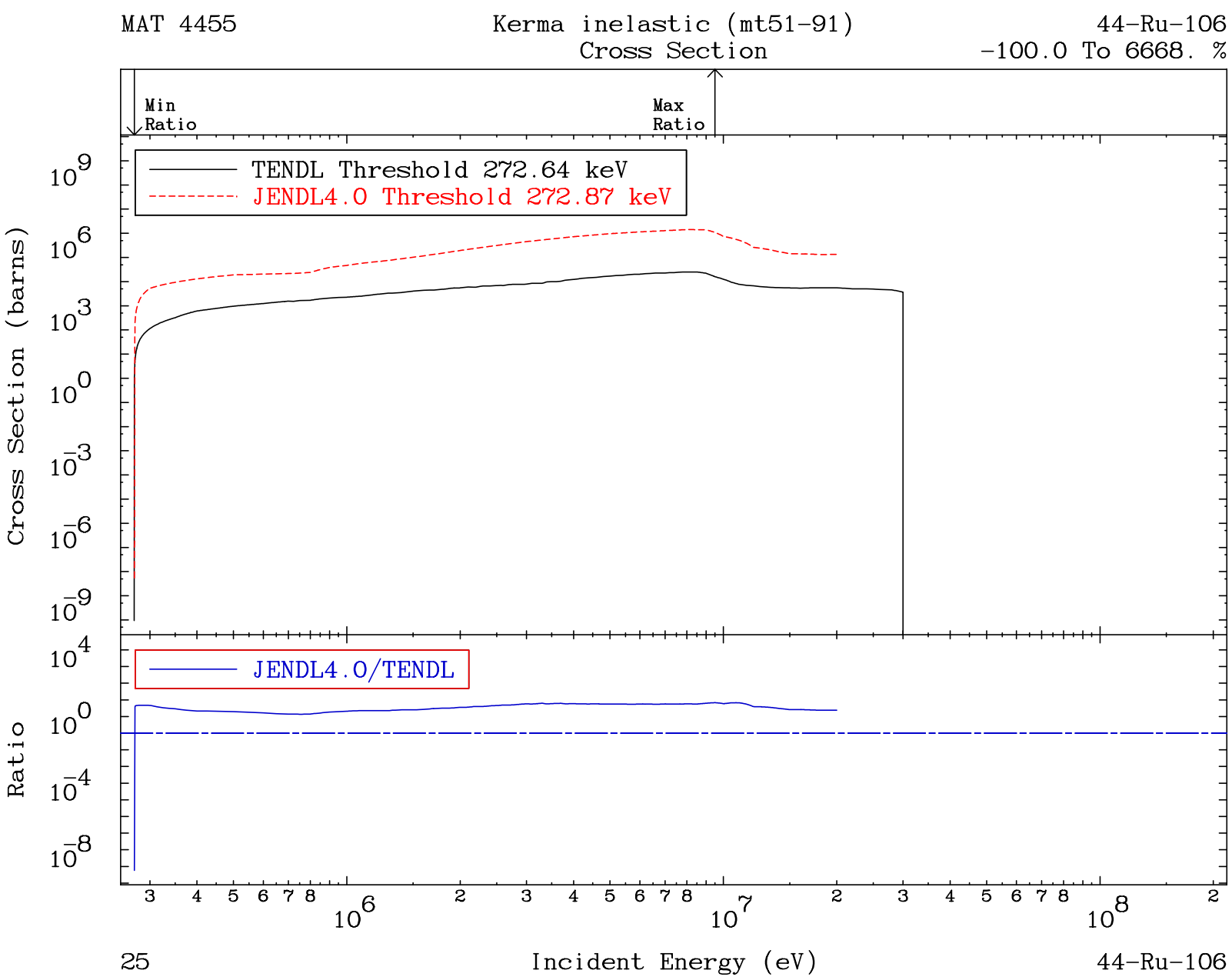

MAT 4455
Tritium Production
Cross Section
44-Ru-106
-76.42 To 9999. %
Max
Ratio
TENDL Threshold 10.800 MeV
JENDL4.0 Threshold 11.192 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
44-Ru-106

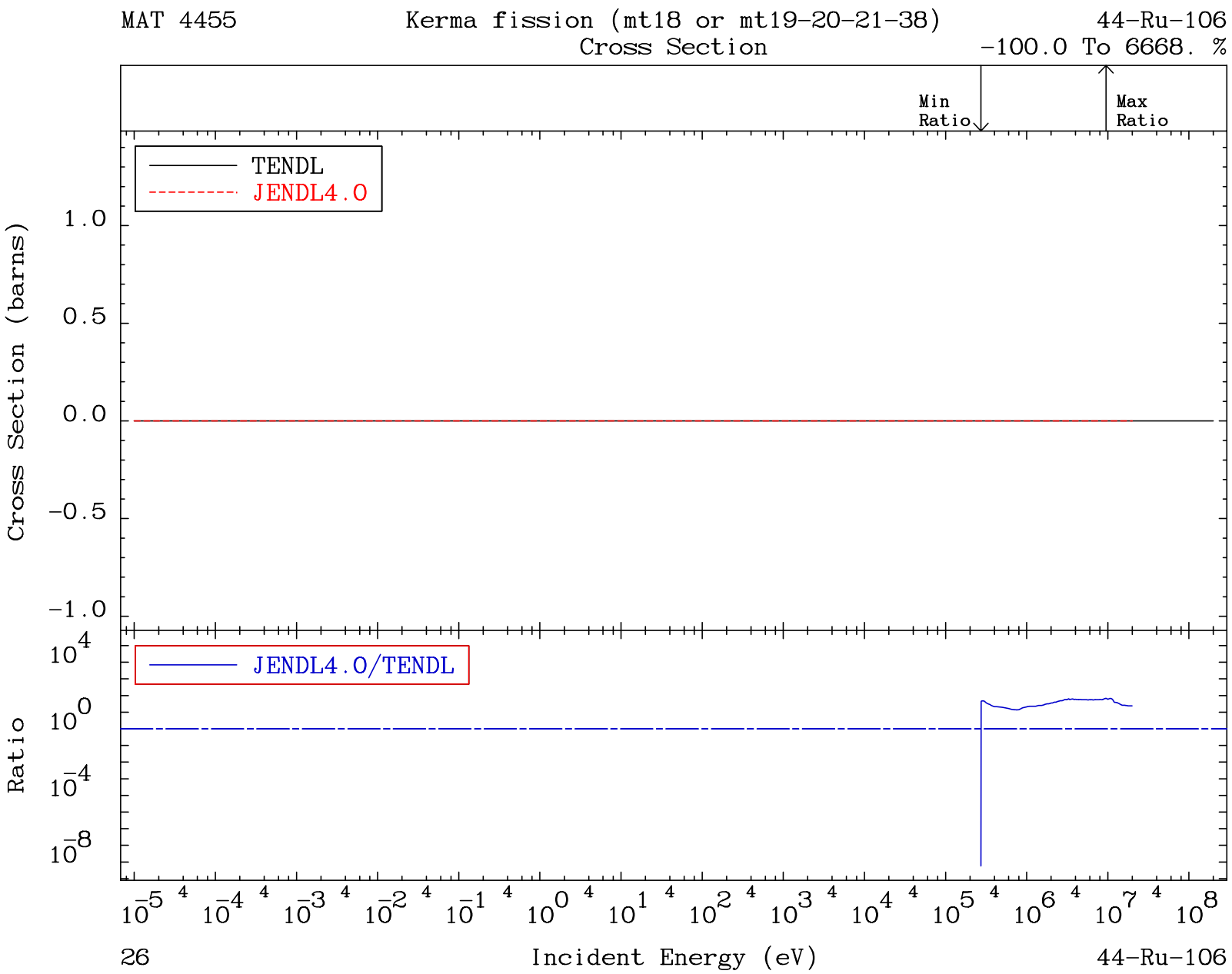

MAT 4455
He-4 Production
Cross Section
44-Ru-106
-88.10 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.3925 keV
JENDL4.0 Threshold 1.0000 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
7 2 3 4 5 7 2 3 4 5 7 2 3 4 5 7 2 3 4 5 7 2
10^4
10^5
10^6
10^7
10^8
21
Incident Energy (eV)
44-Ru-106

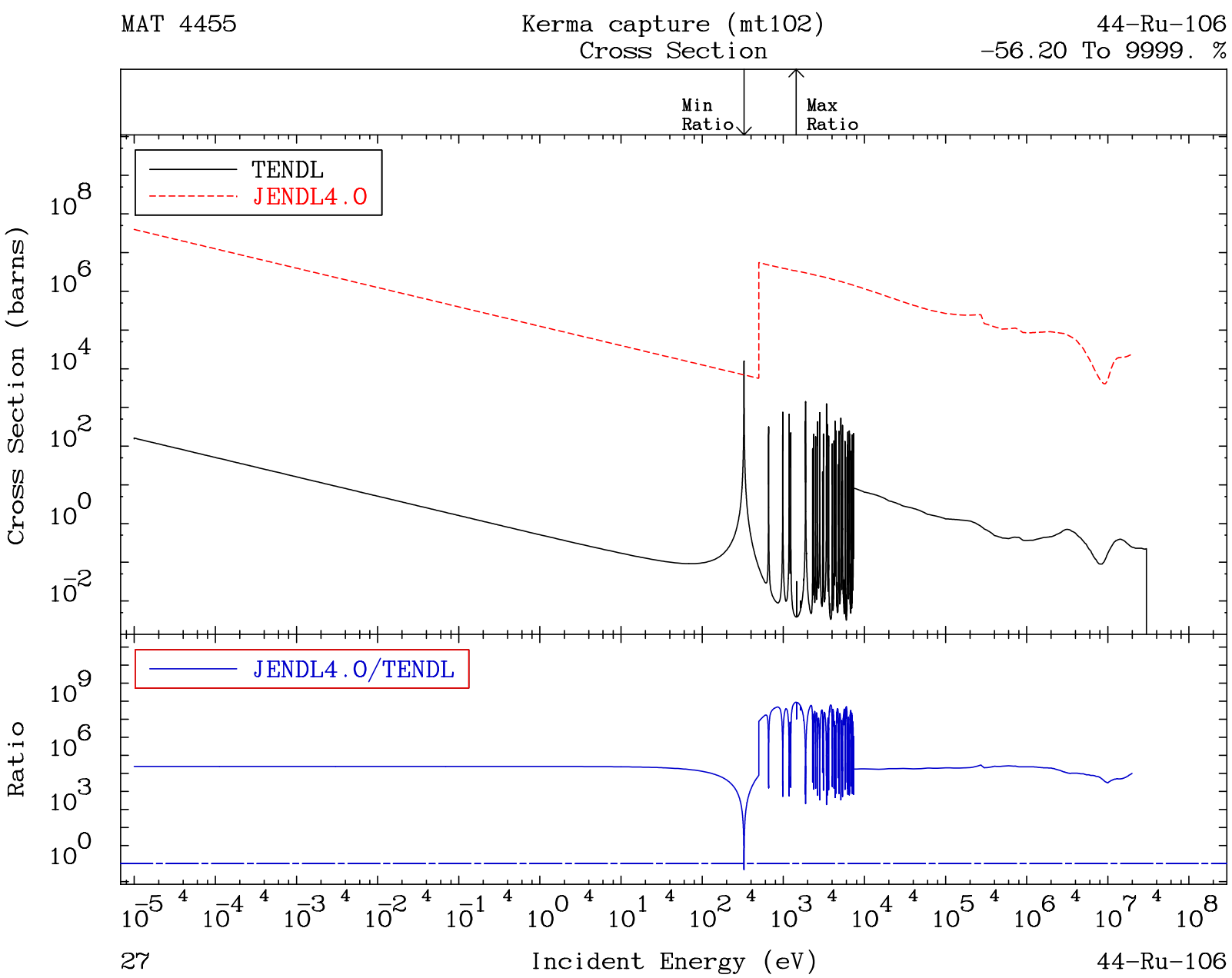

MAT 4455
Kerma total (eV-barns)
Cross Section
44-Ru-106
-79.71 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
22
44-Ru-106

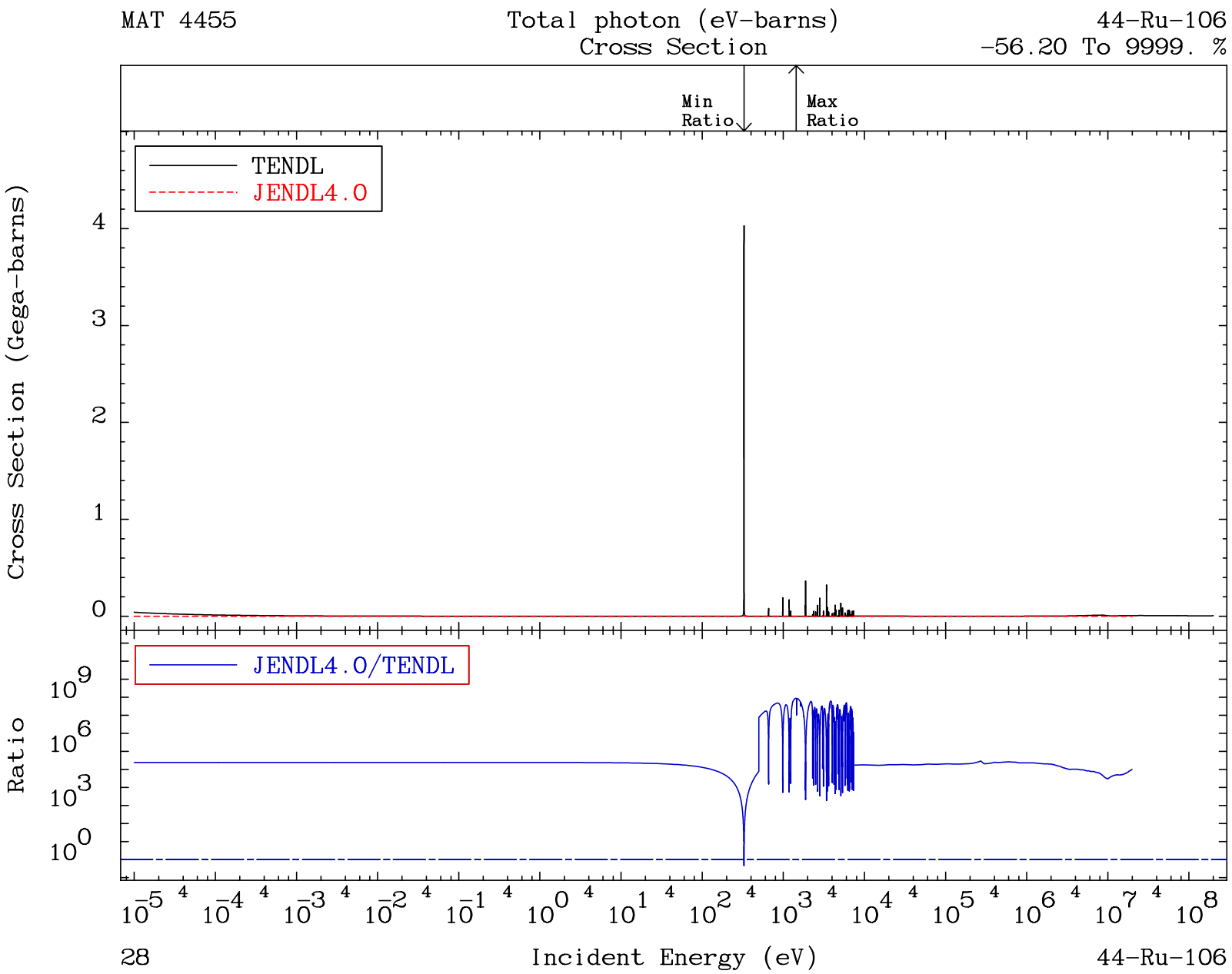

MAT 4455
Kerma elastic
Cross Section
44-Ru-106
-99.82 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
23
44-Ru-106

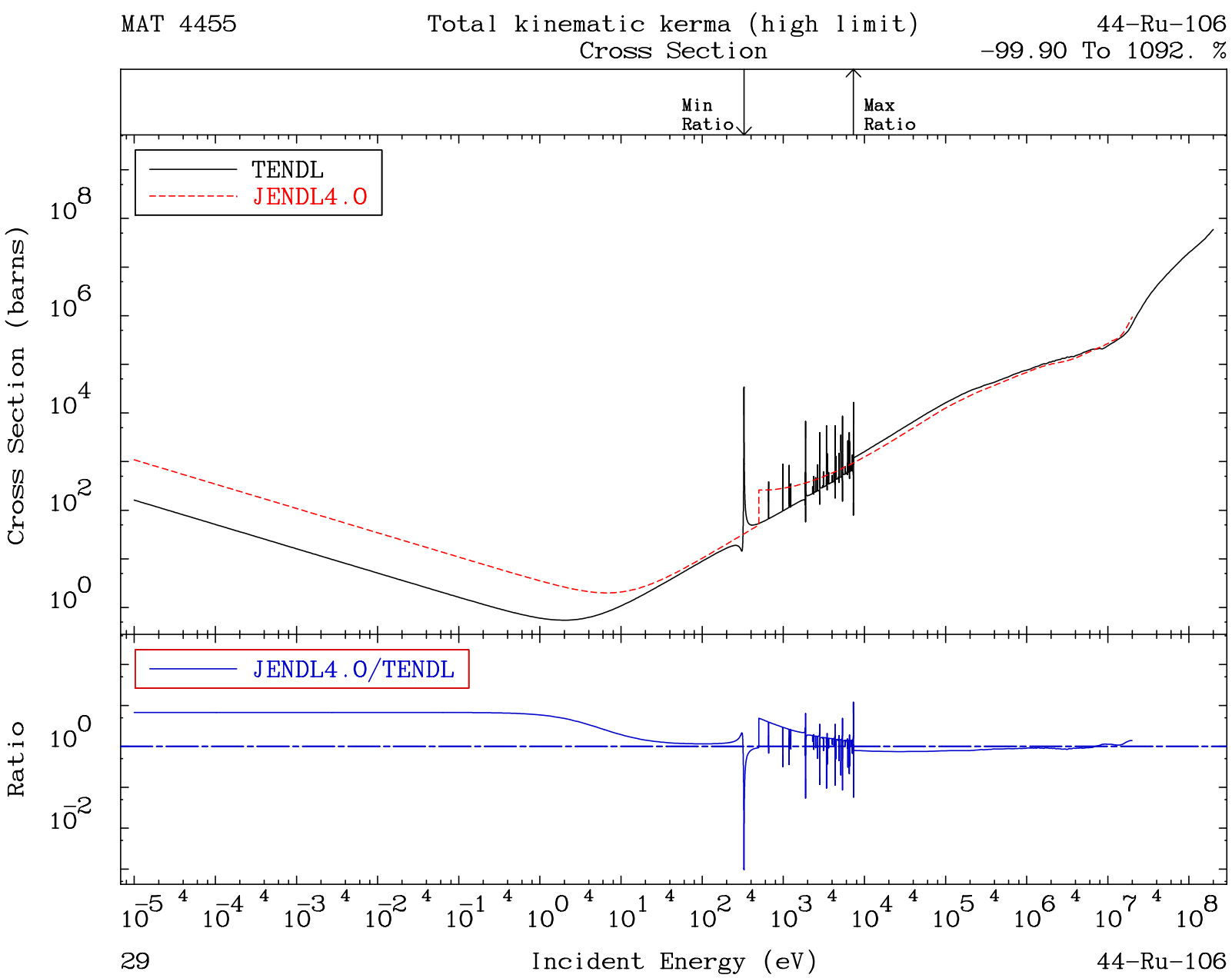

MAT 4455
Kerma non-elastic (all but mt2)
Cross Section
44-Ru-106
-56.20 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
24
44-Ru-106

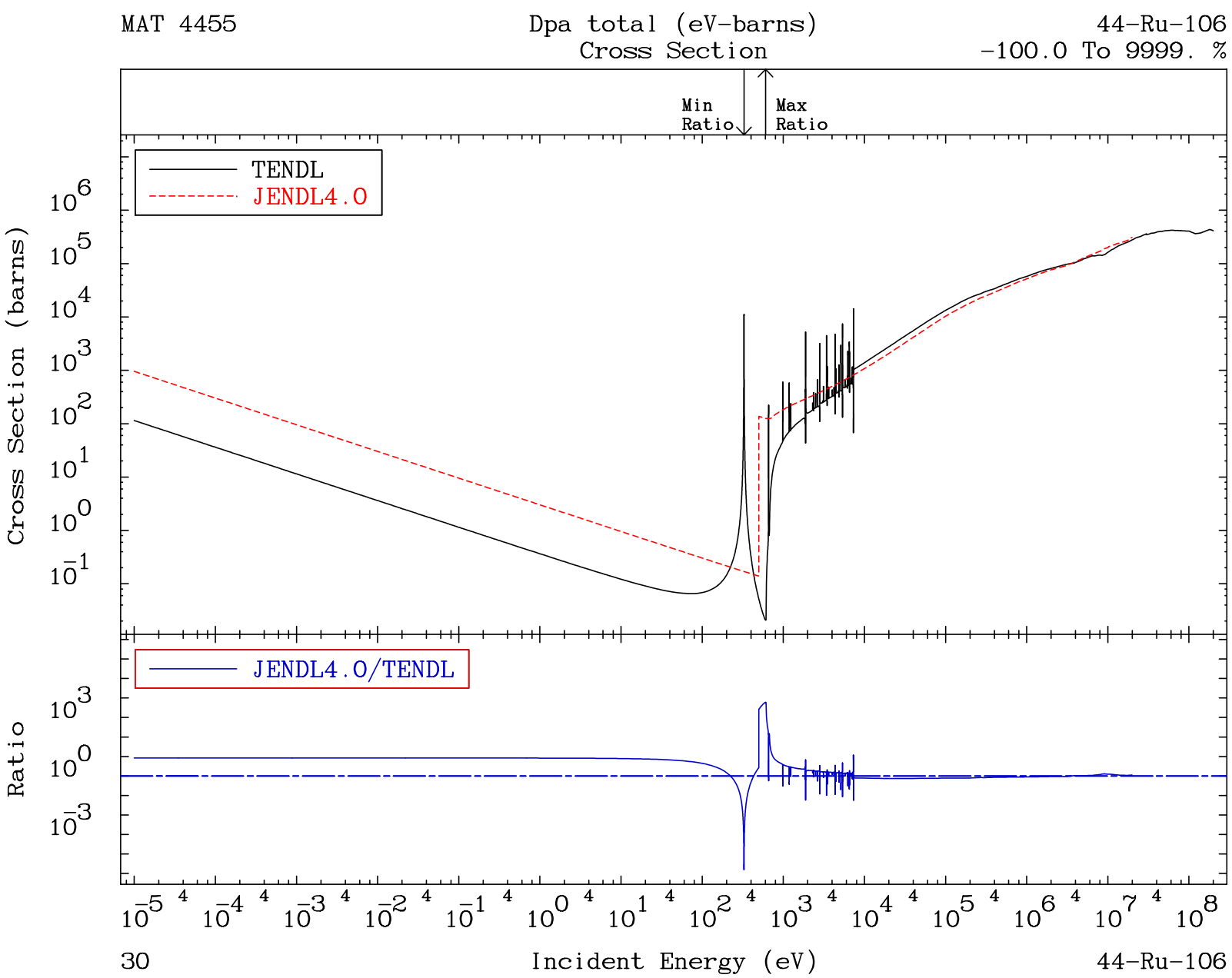

MAT 4455
Kerma inelastic (mt51-91)
Cross Section
44-Ru-106
-100.0 To 6668. %
Min Ratio
Max Ratio
TENDL Threshold 272.64 keV
JENDL4.0 Threshold 272.87 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
25
44-Ru-106

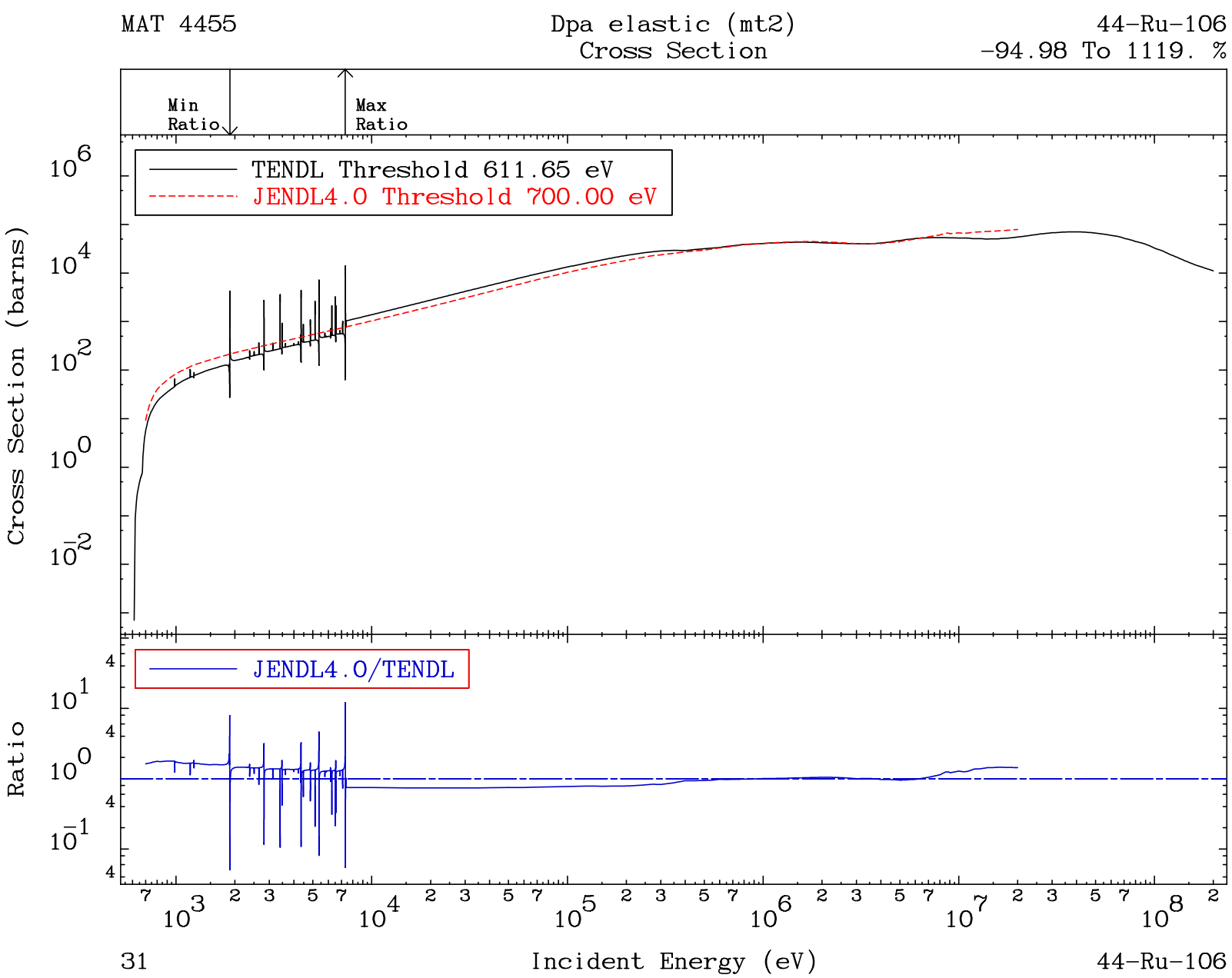

MAT 4455
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
44-Ru-106
-100.0 To 6668. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^4
10^0
10^-4
10^-8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
44-Ru-106

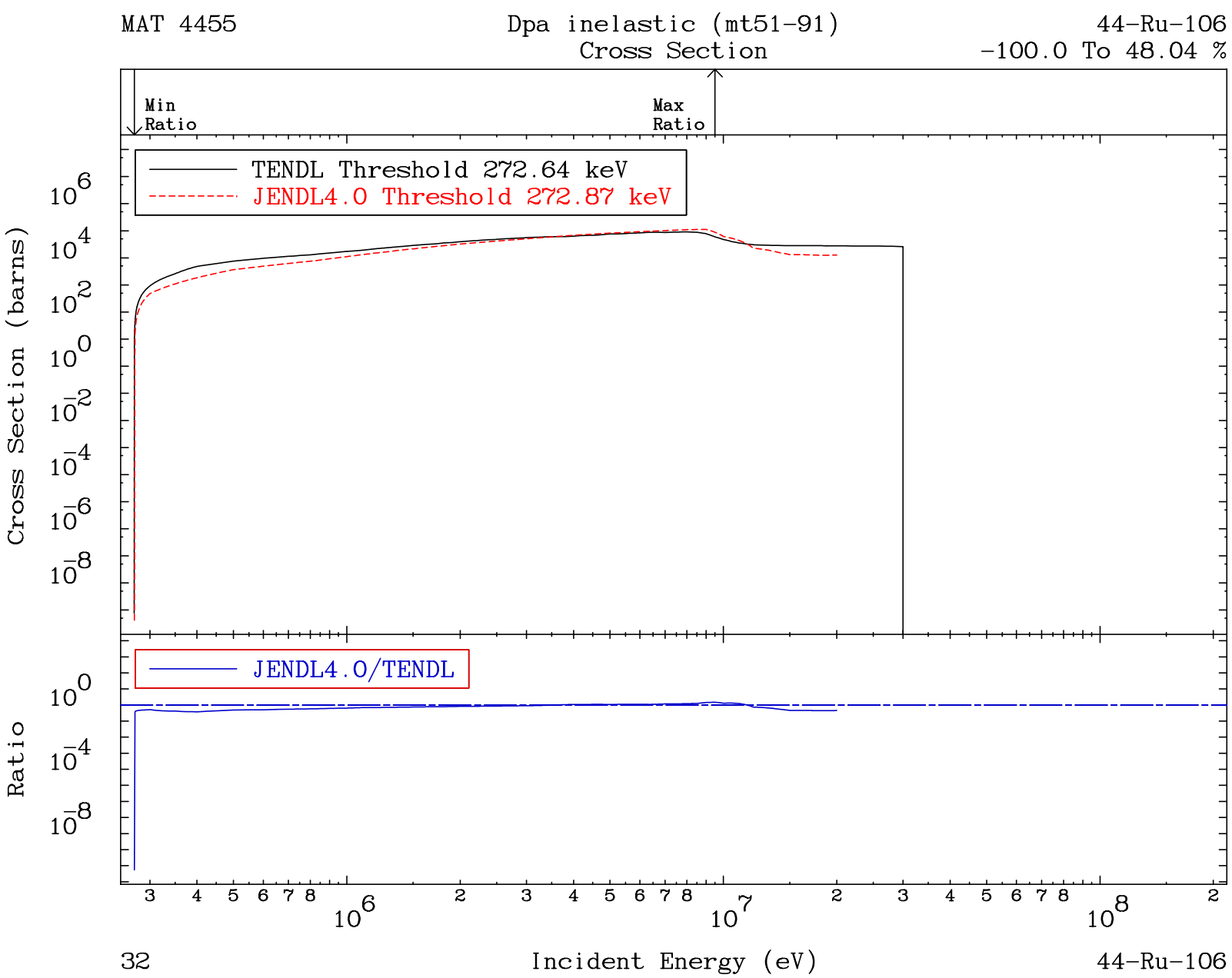

MAT 4455
Kerma capture (mt102)
Cross Section
44-Ru-106
-56.20 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
27
44-Ru-106

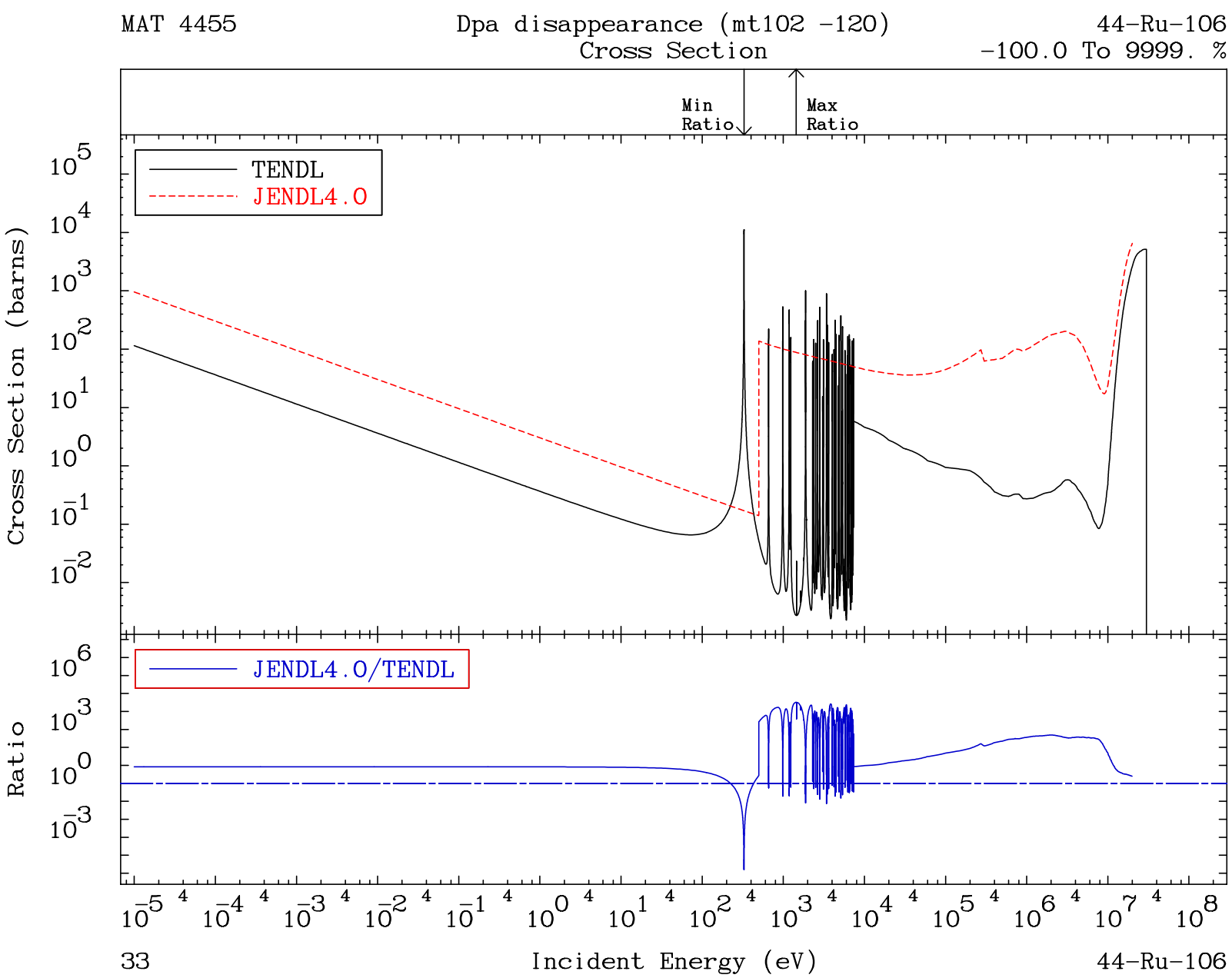

MAT 4455
Total photon (eV-barns)
Cross Section
44-Ru-106
-56.20 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (Giga-barns)
0
1
2
3
4
JENDL4.0/TENDL
Ratio
10^{9}
10^{6}
10^{3}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
28
Incident Energy (eV)
44-Ru-106

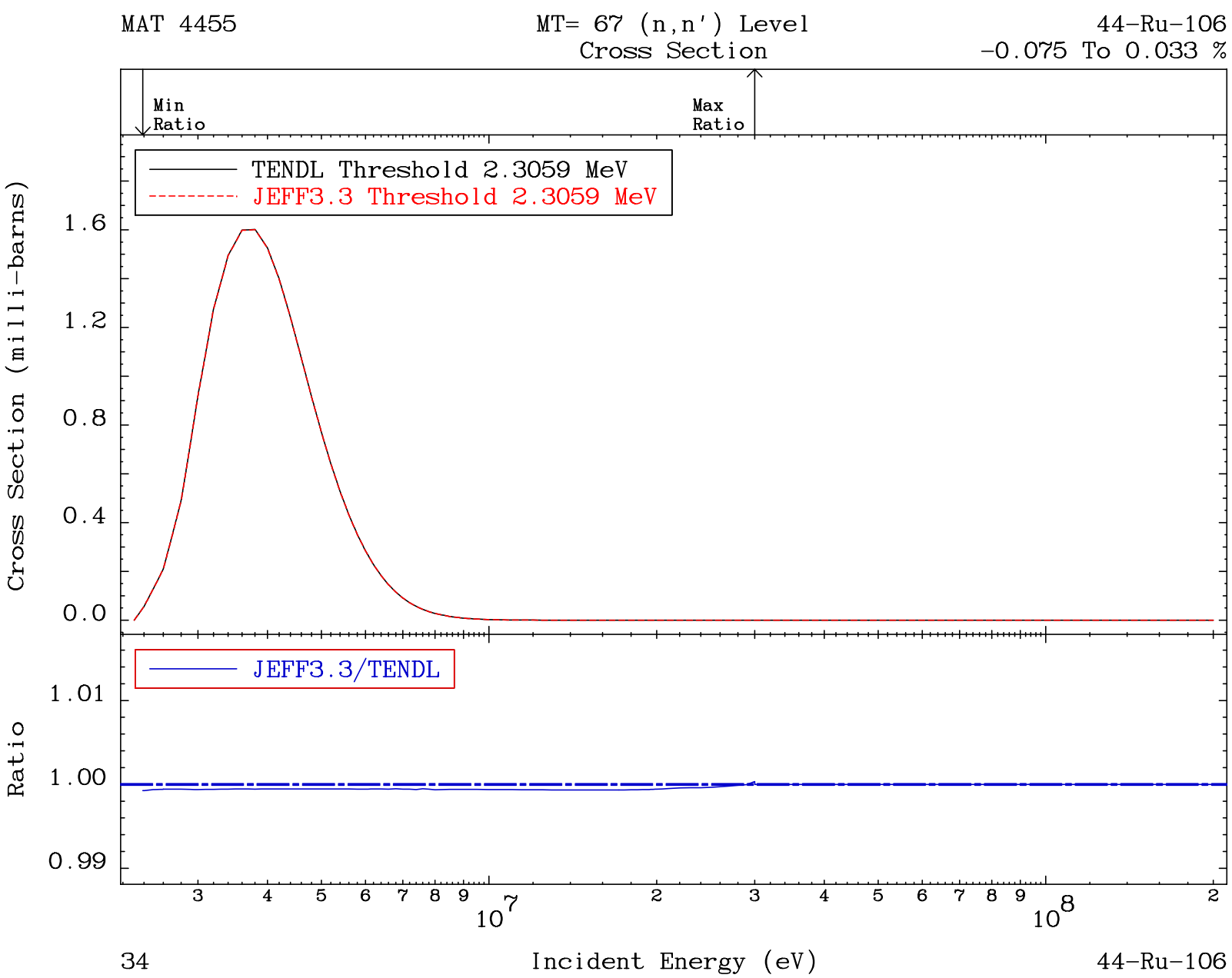

MAT 4455
Total kinematic kerma (high limit)
Cross Section
44-Ru-106
-99.90 To 1092. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
29
44-Ru-106

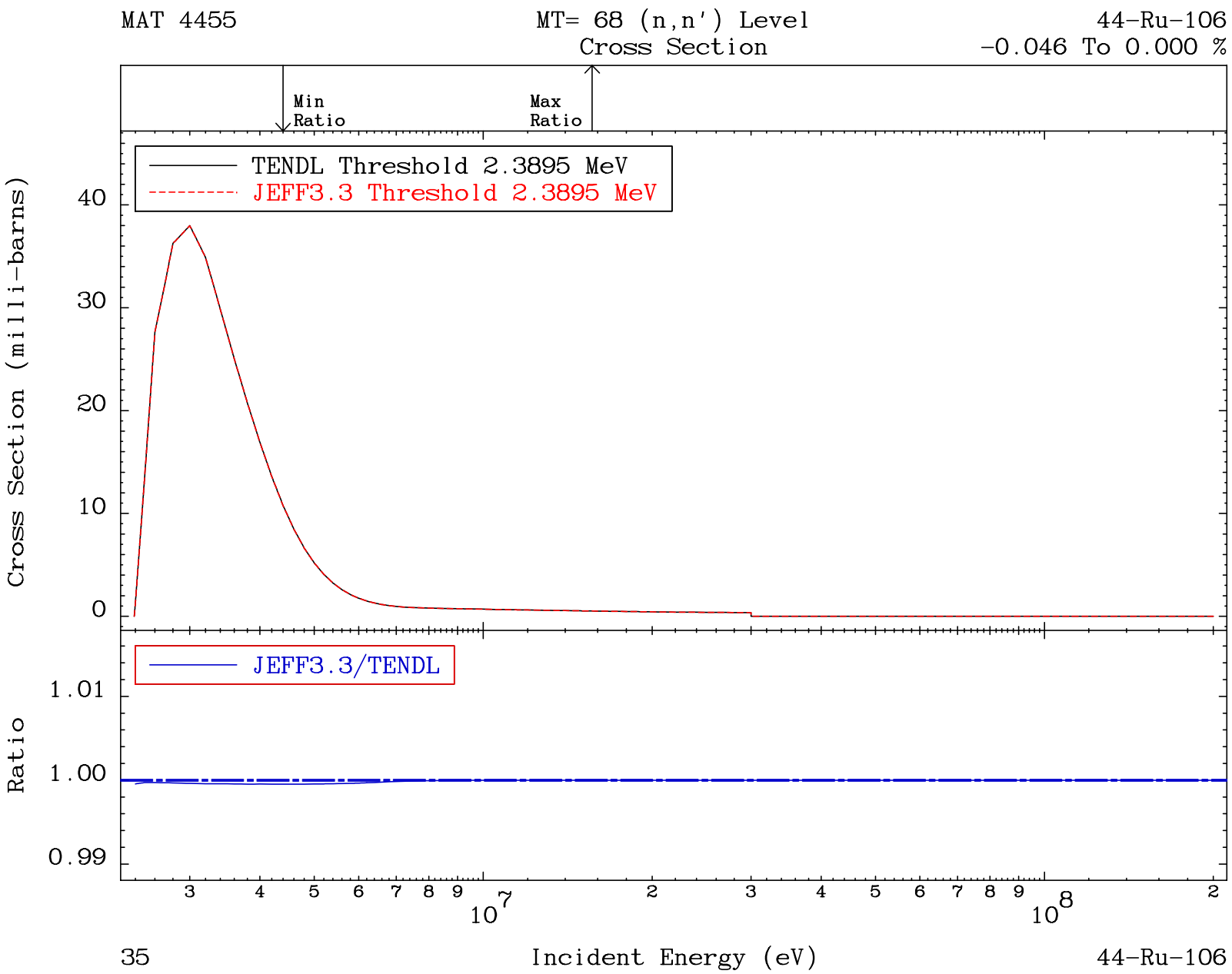

MAT 4455
Dpa total (eV-barns)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
30
44-Ru-106

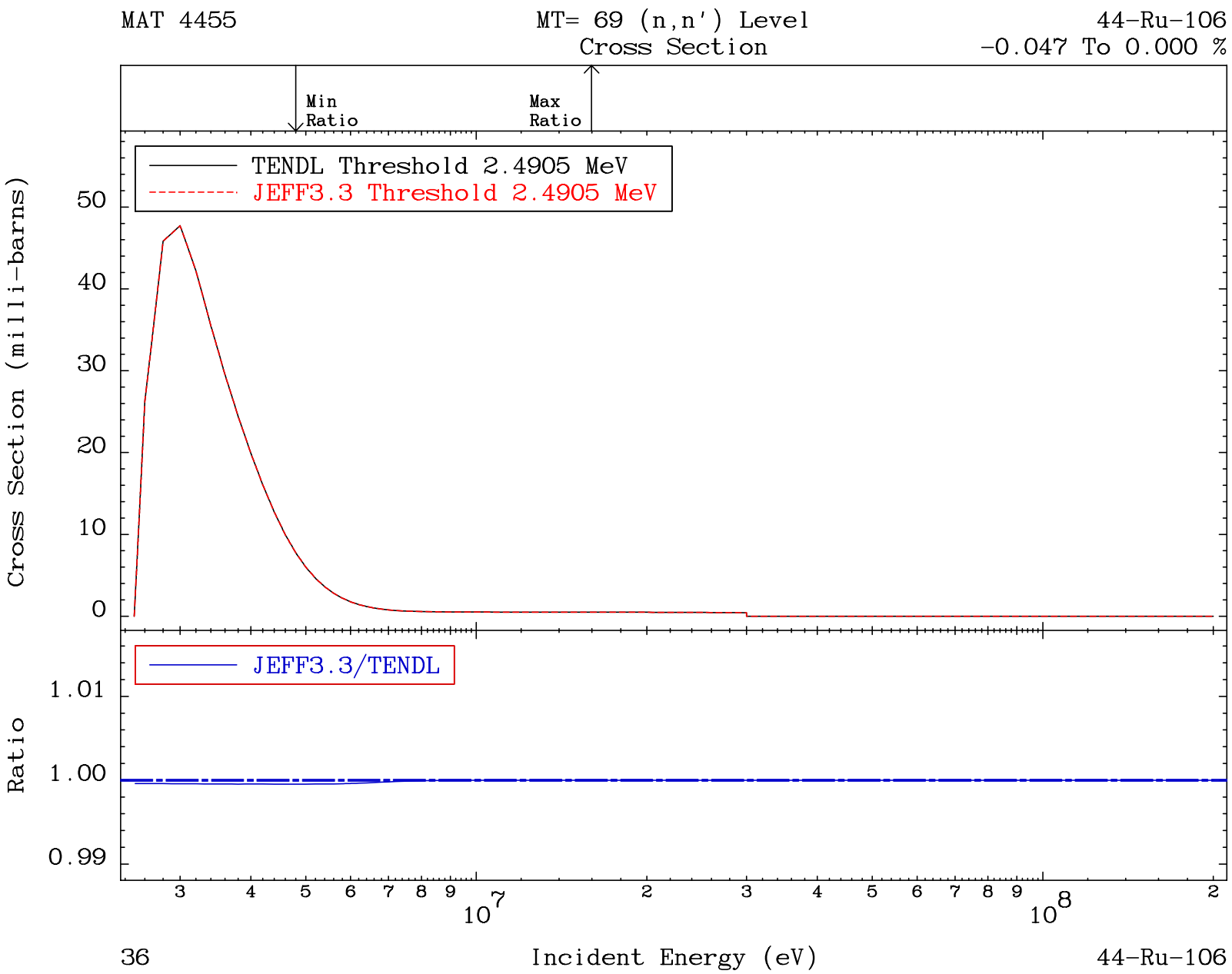

MAT 4455
Dpa elastic (mt2)
Cross Section
44-Ru-106
-94.98 To 1119. %
Min Ratio
Max Ratio
TENDL Threshold 611.65 eV
JENDL4.0 Threshold 700.00 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
31
44-Ru-106

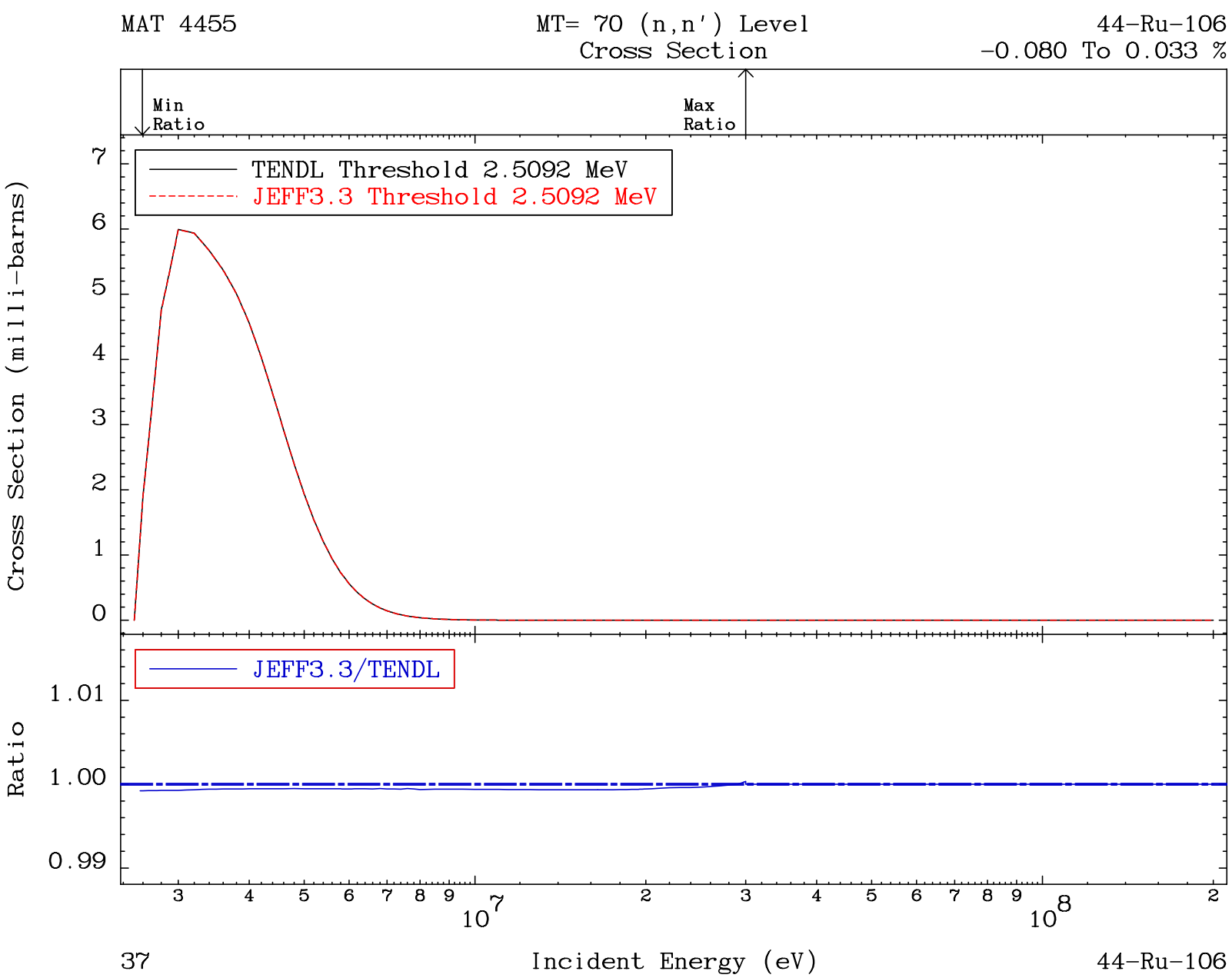

MAT 4455
Dpa inelastic (mt51-91)
Cross Section
44-Ru-106
-100.0 To 48.04 %
Min Ratio
Max Ratio
TENDL Threshold 272.64 keV
JENDL4.0 Threshold 272.87 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
44-Ru-106

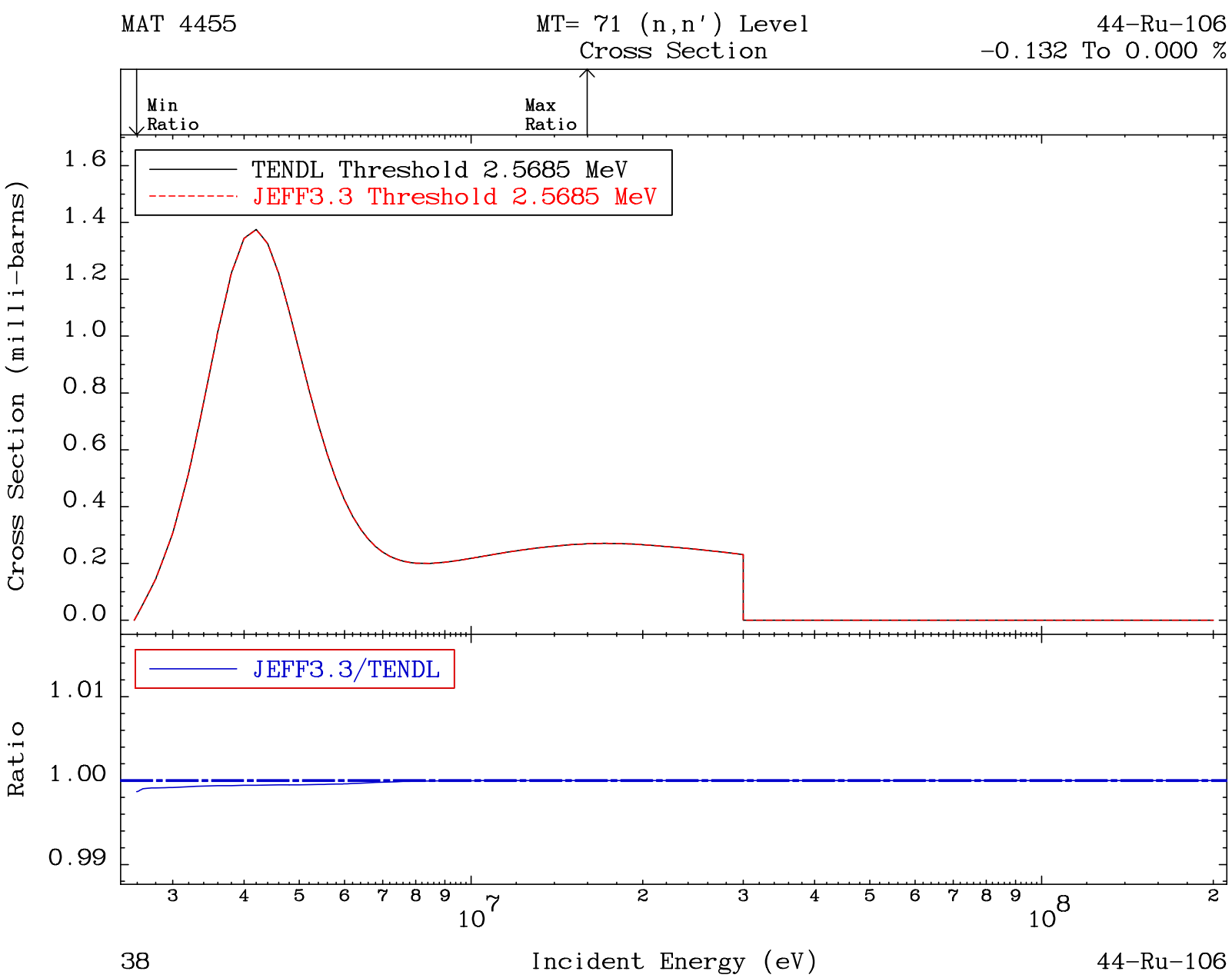

MAT 4455
Dpa disappearance (mt102 -120)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
33
44-Ru-106

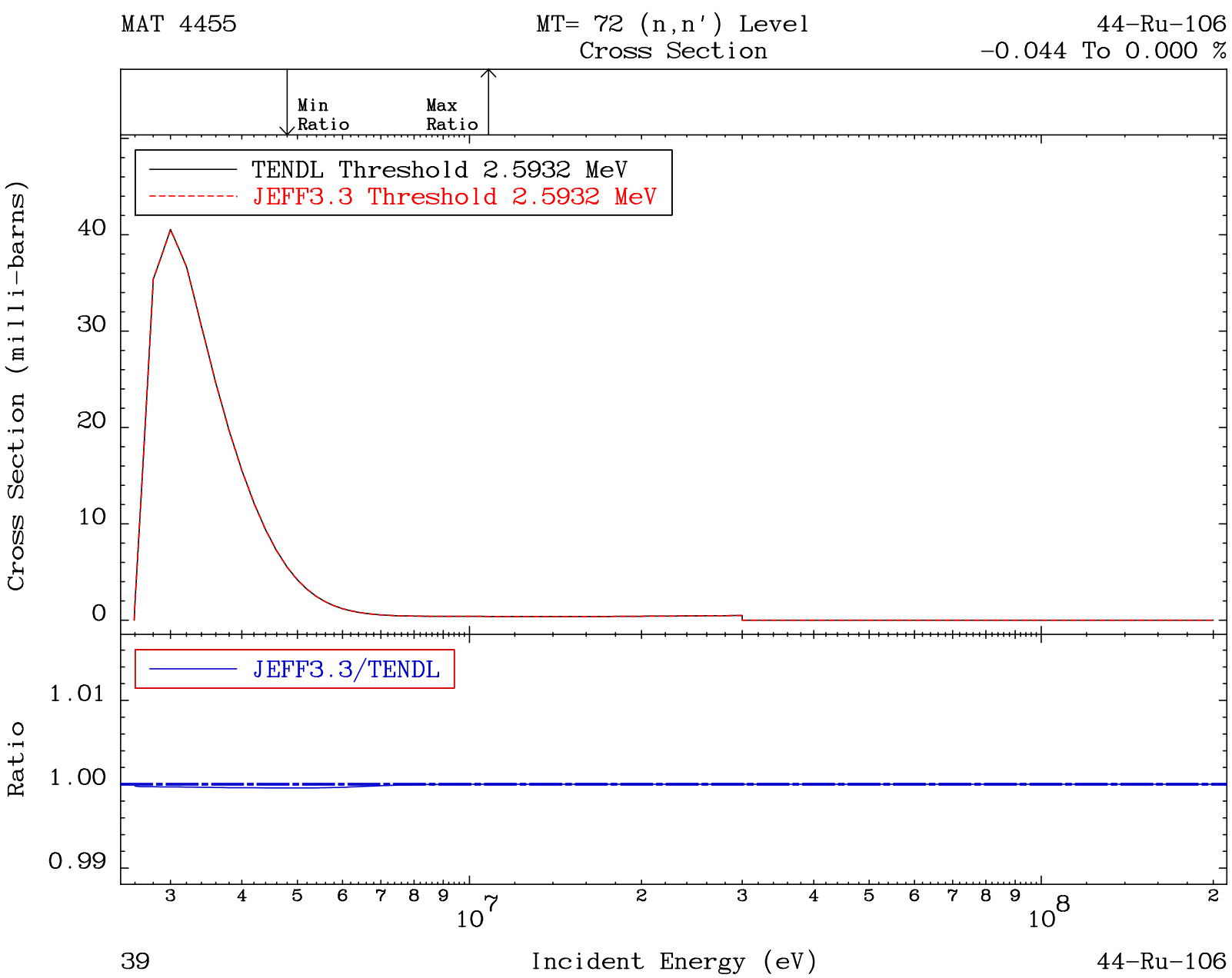

MAT 4455
MT= 67 (n,n') Level
Cross Section
44-Ru-106
-0.075 To 0.033 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.3059 MeV
JEFF3.3 Threshold 2.3059 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
44-Ru-106

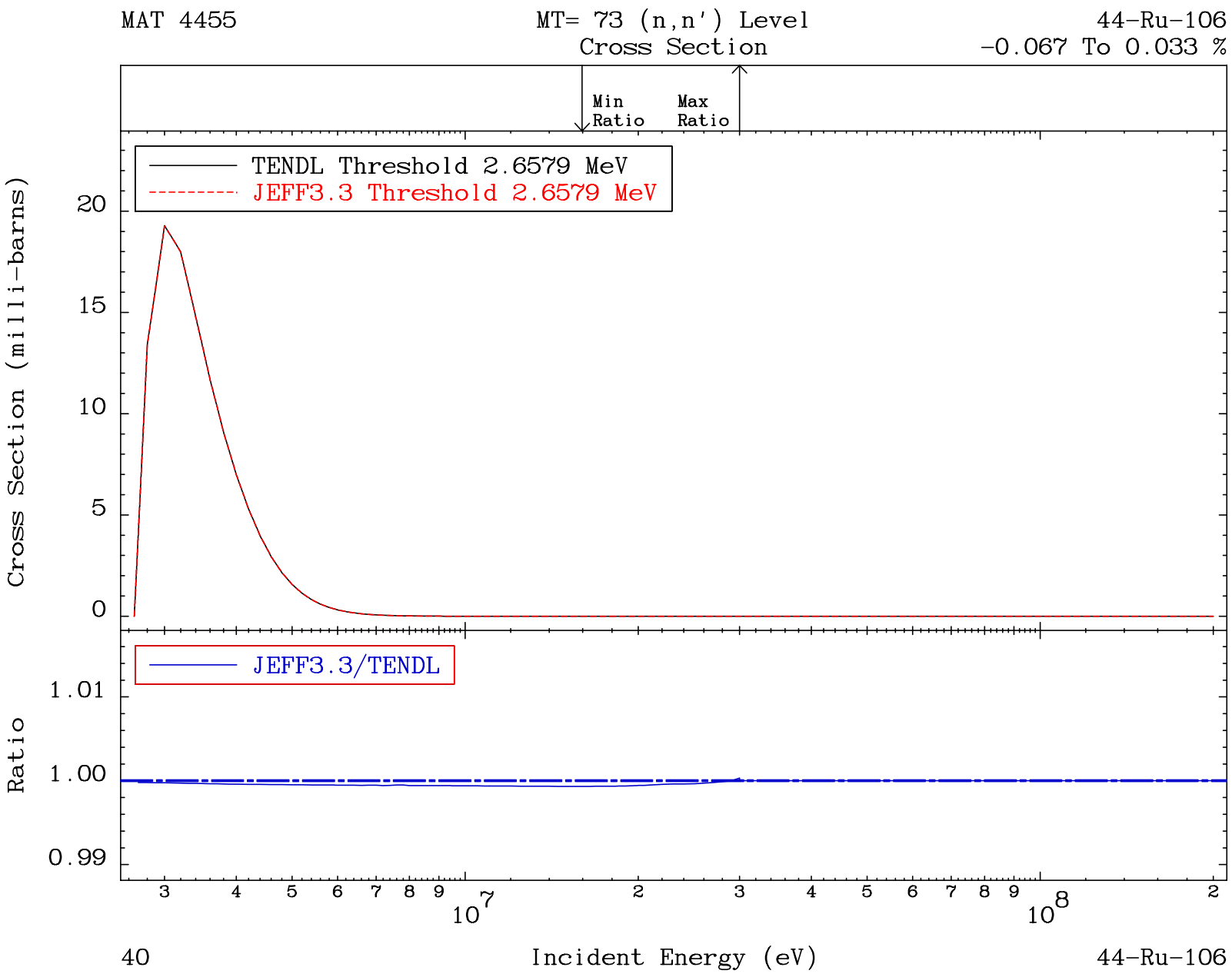

MAT 4455
MT= 68 (n,n') Level
Cross Section
44-Ru-106
-0.046 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.3895 MeV
JEFF3.3 Threshold 2.3895 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
44-Ru-106

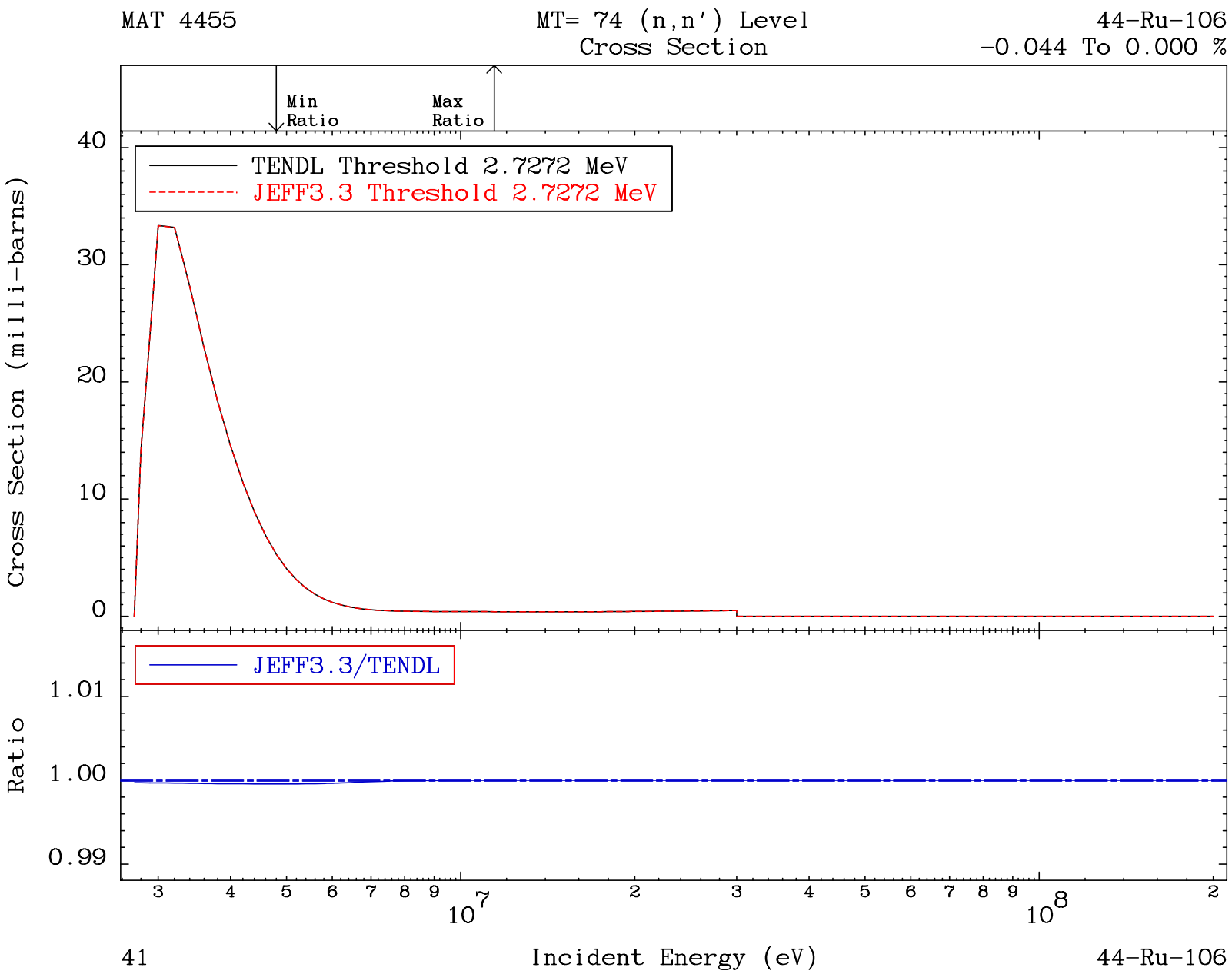

MAT 4455
MT= 69 (n,n') Level
Cross Section
44-Ru-106
-0.047 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.4905 MeV
JEFF3.3 Threshold 2.4905 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
44-Ru-106

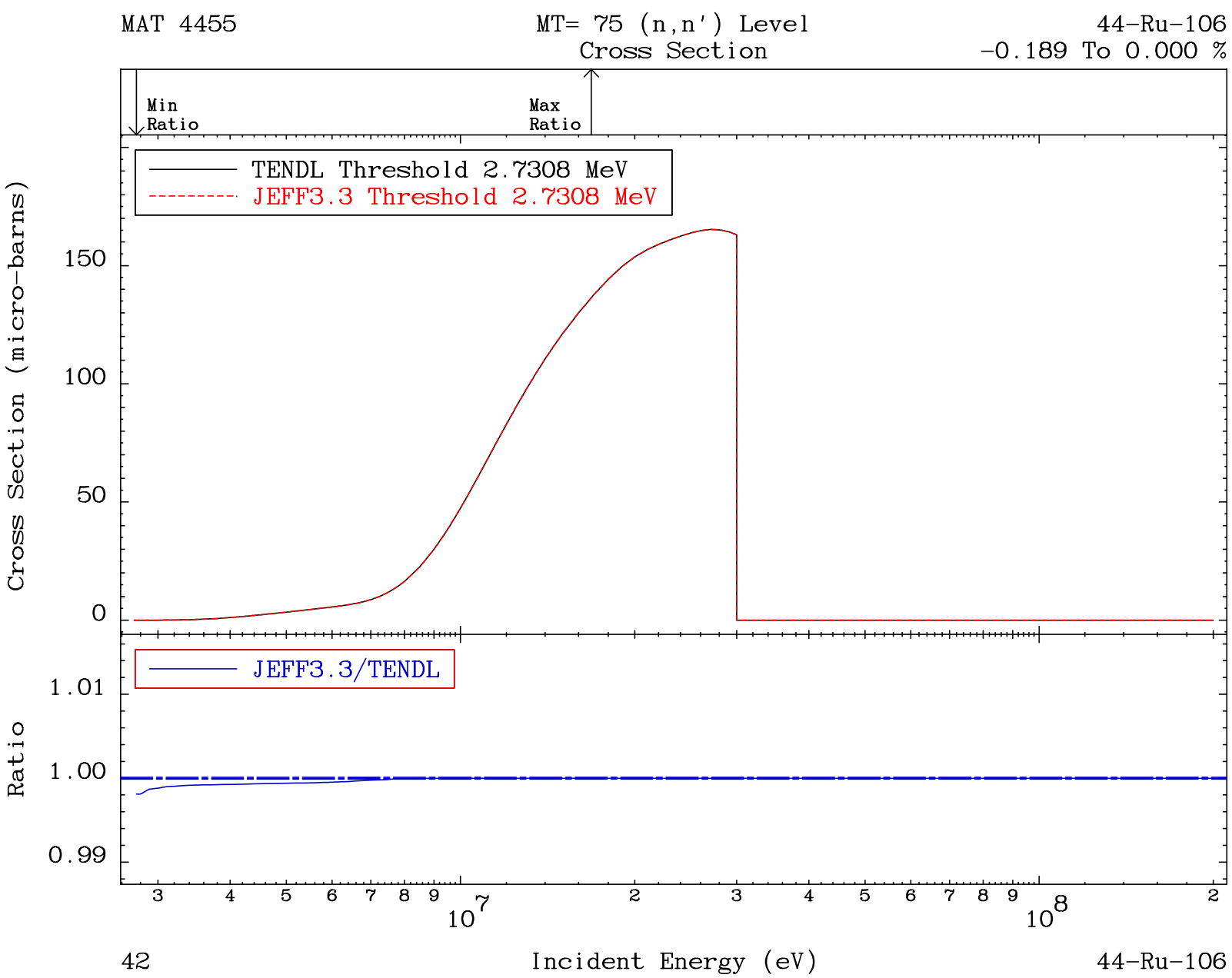

MAT 4455
MT= 70 (n,n') Level
Cross Section
44-Ru-106
-0.080 To 0.033 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5092 MeV
JEFF3.3 Threshold 2.5092 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
44-Ru-106

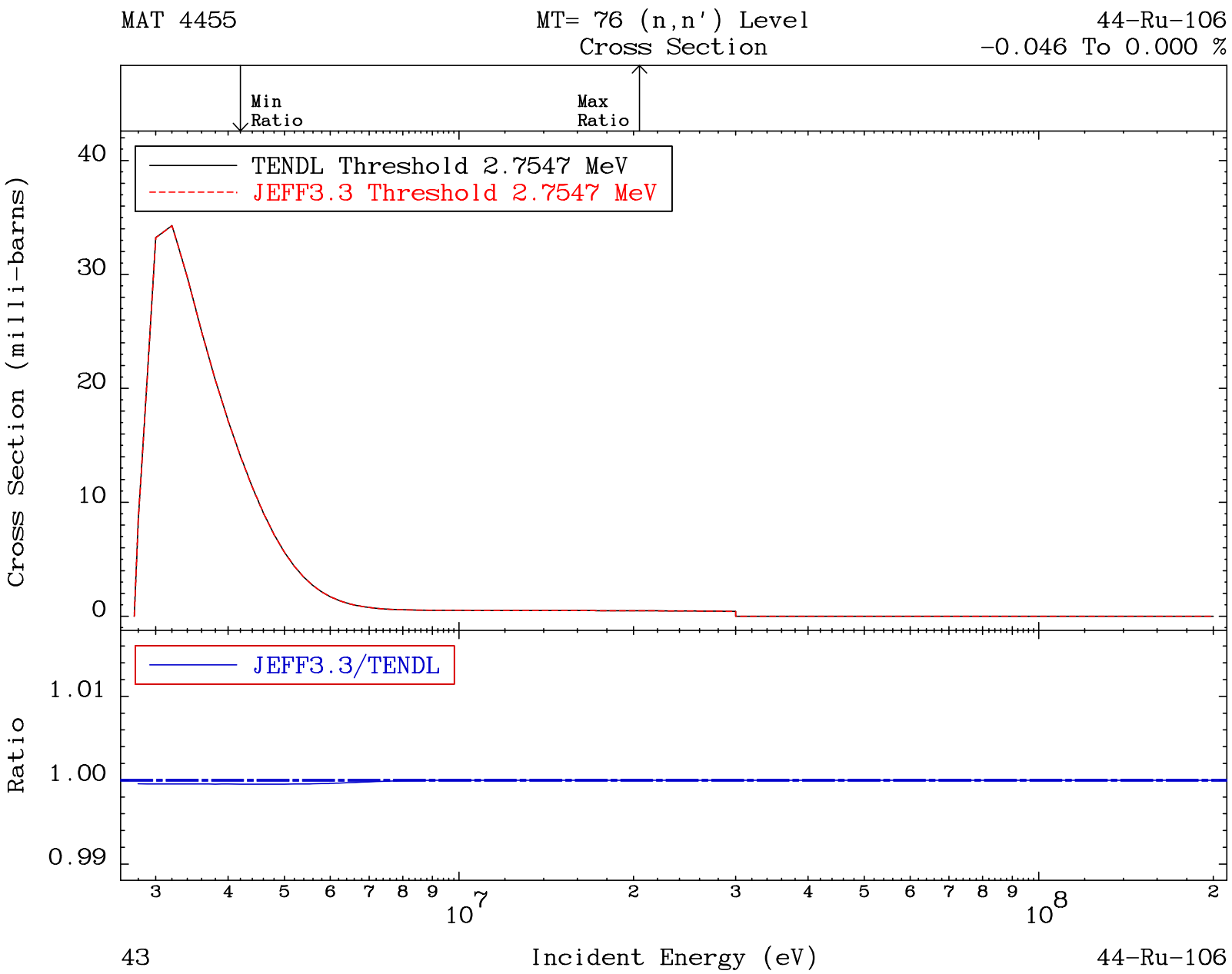

MAT 4455
MT= 71 (n,n') Level
Cross Section
44-Ru-106
-0.132 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.5685 MeV
JEFF3.3 Threshold 2.5685 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
44-Ru-106

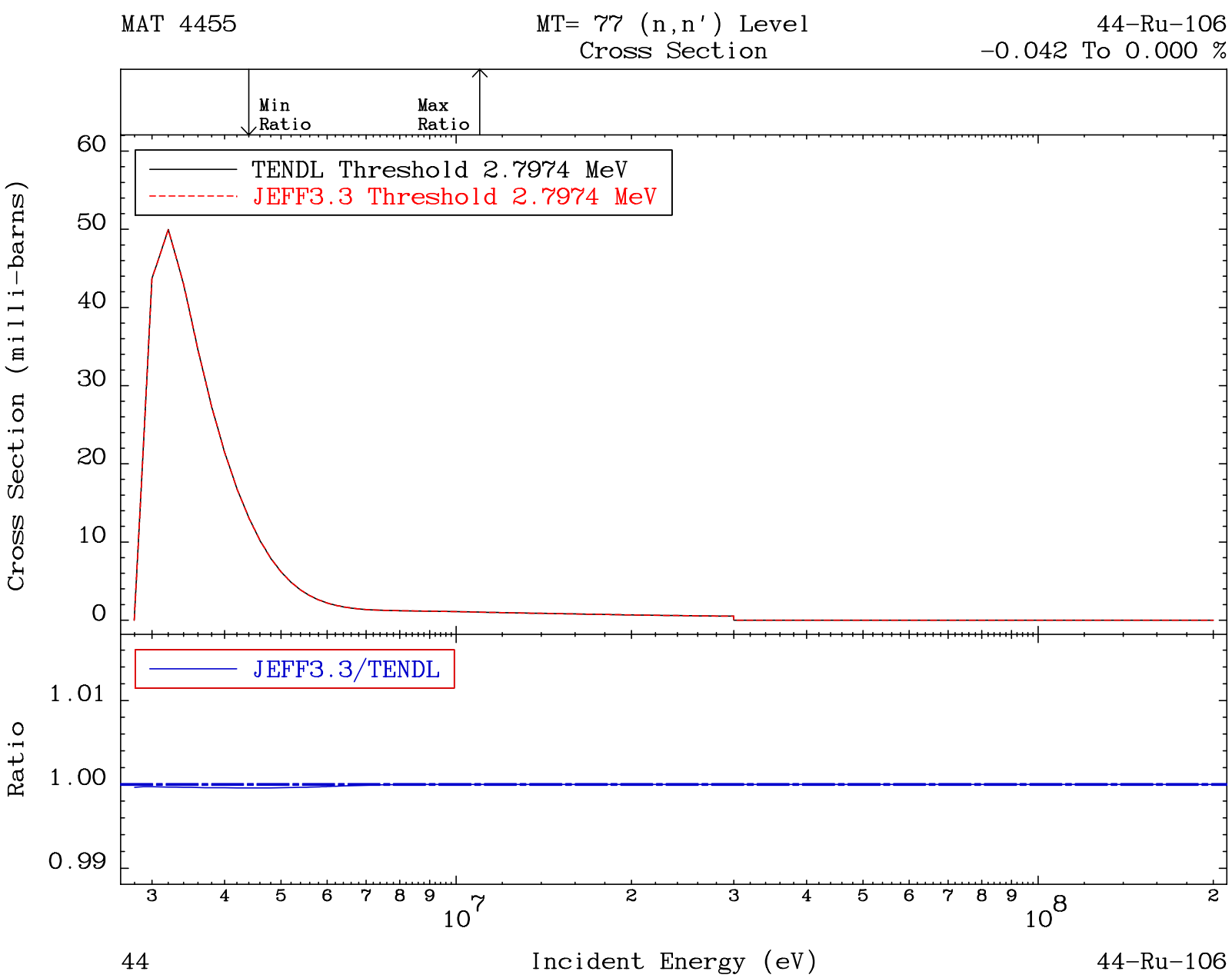

MAT 4455
MT= 72 (n,n') Level
Cross Section
44-Ru-106
-0.044 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.5932 MeV
JEFF3.3 Threshold 2.5932 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
44-Ru-106

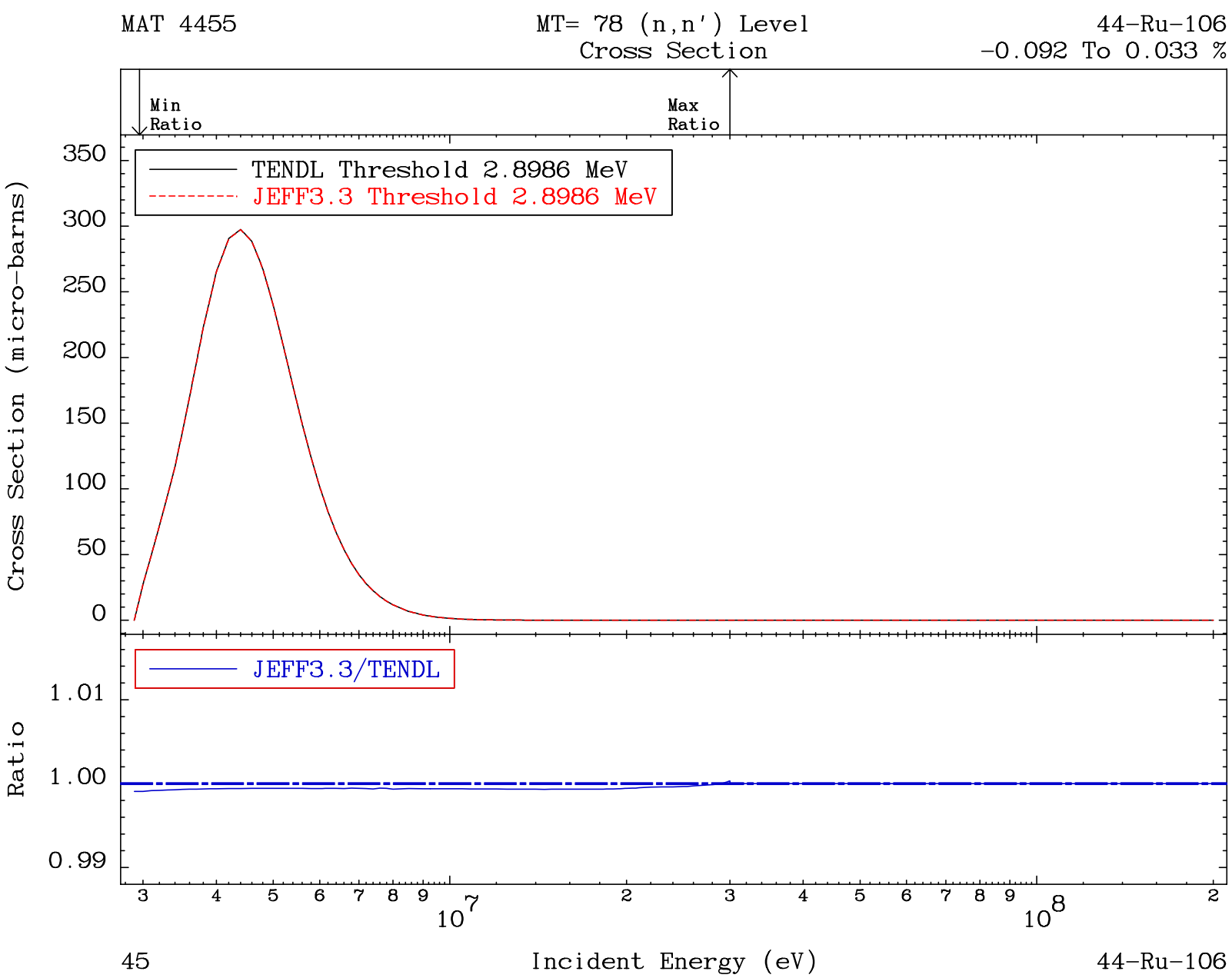

MAT 4455
MT= 73 (n,n') Level
Cross Section
44-Ru-106
-0.067 To 0.033 %
Min Ratio
Max Ratio
TENDL Threshold 2.6579 MeV
JEFF3.3 Threshold 2.6579 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
44-Ru-106

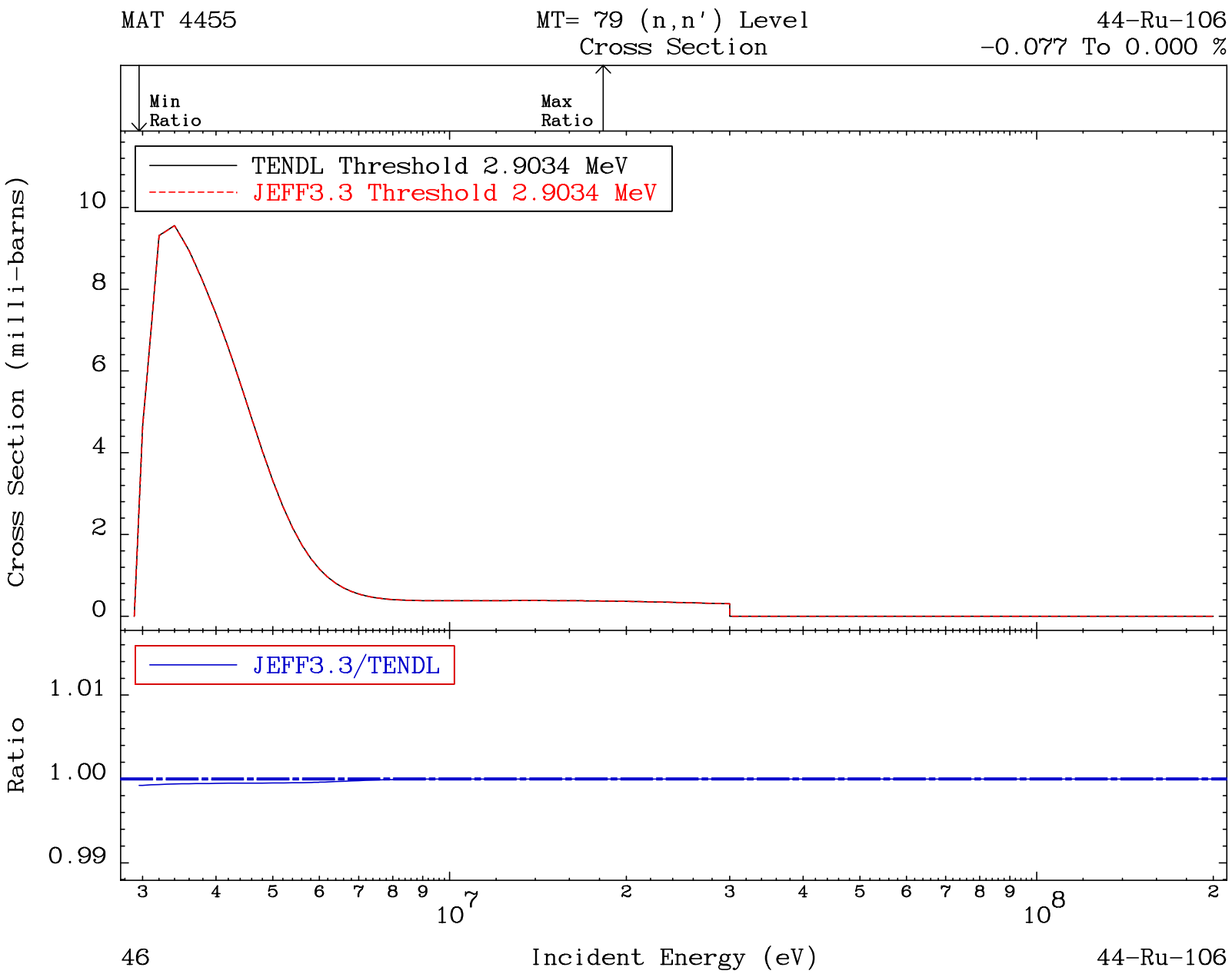

MAT 4455
MT= 74 (n,n') Level
Cross Section
44-Ru-106
-0.044 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.7272 MeV
JEFF3.3 Threshold 2.7272 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
44-Ru-106

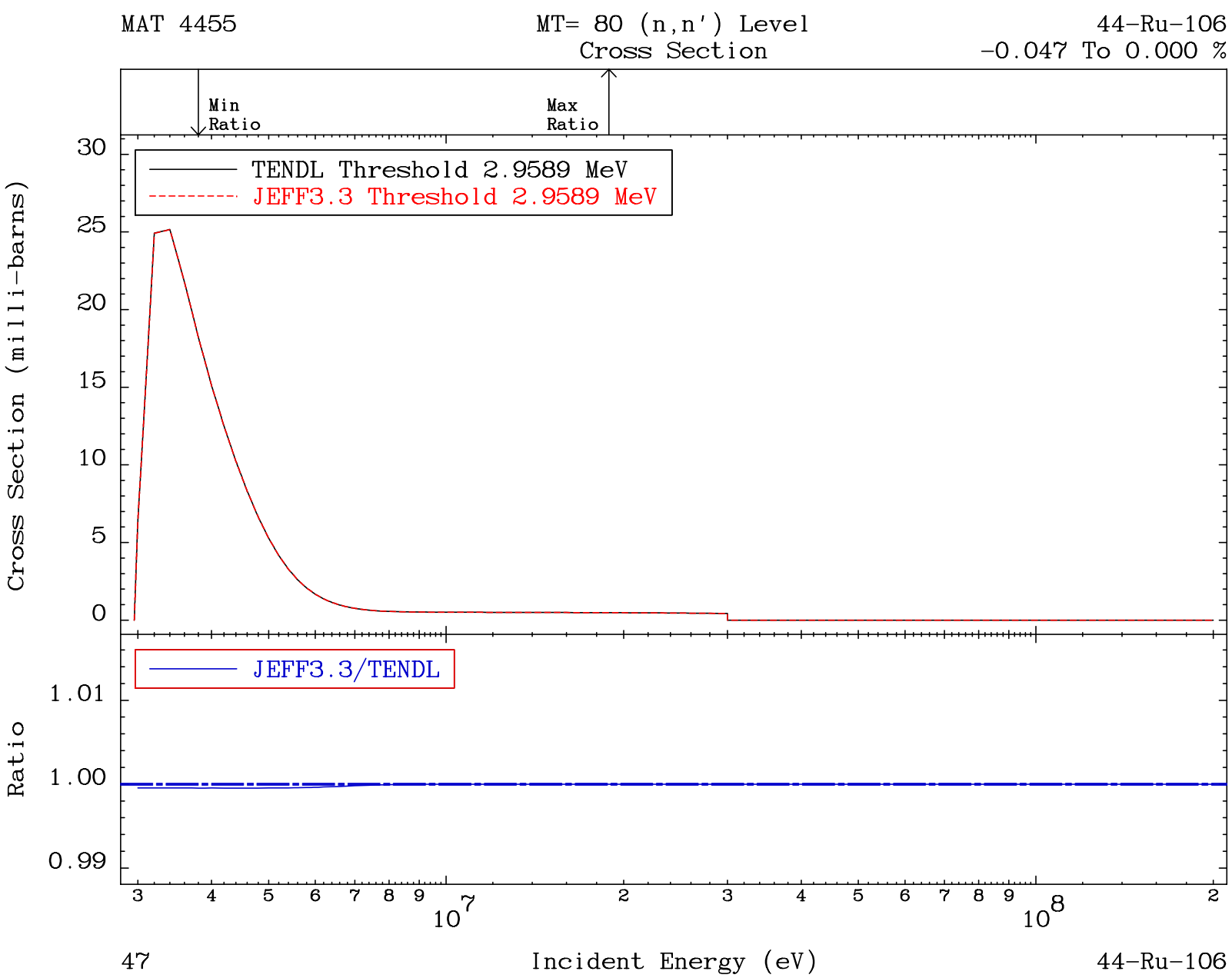

MAT 4455
MT= 75 (n,n') Level
Cross Section
44-Ru-106
-0.189 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.7308 MeV
JEFF3.3 Threshold 2.7308 MeV
Cross Section (micro-barns)
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
44-Ru-106

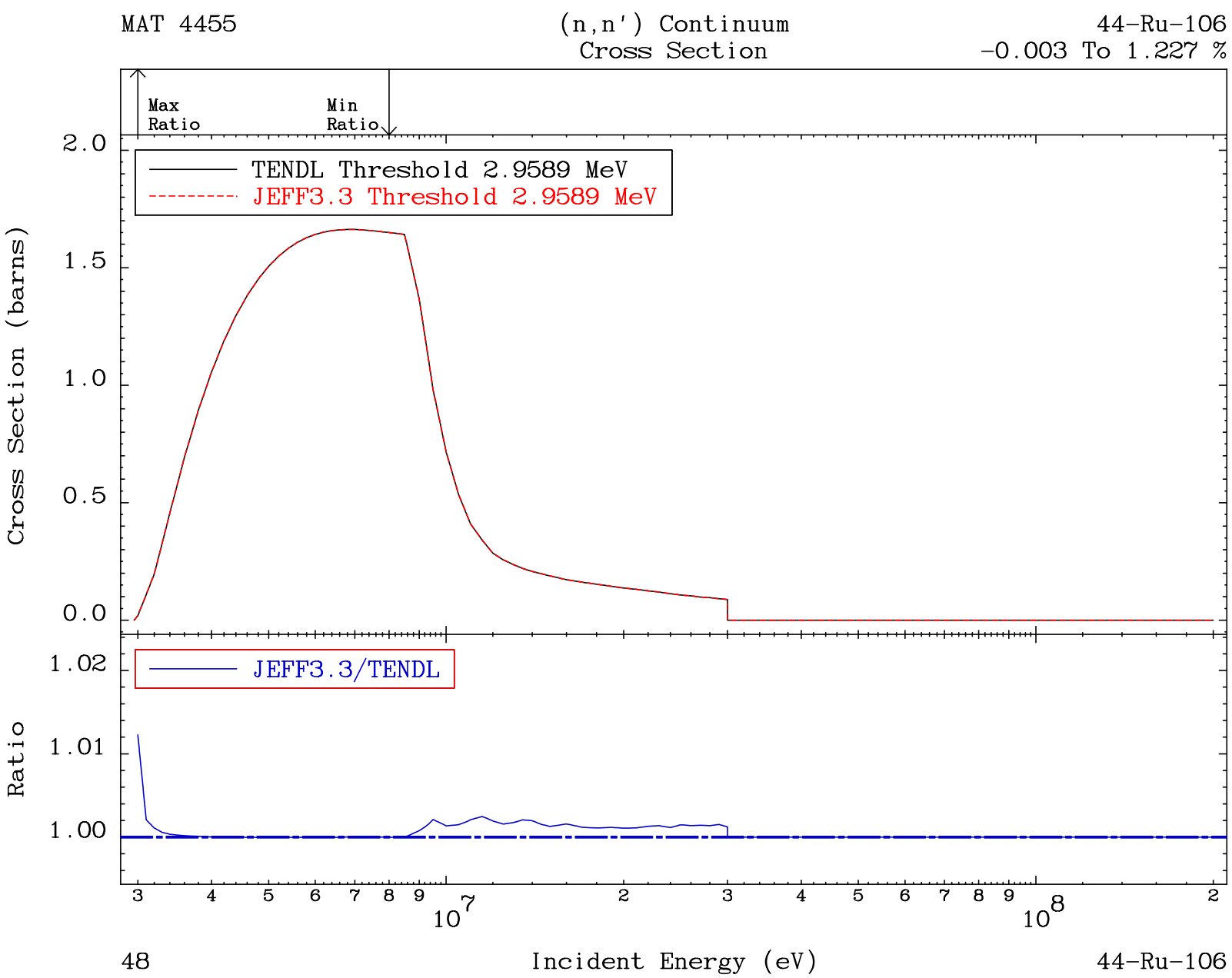

MAT 4455
MT= 76 (n,n') Level
Cross Section
44-Ru-106
-0.046 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7547 MeV
JEFF3.3 Threshold 2.7547 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
43
Incident Energy (eV)
44-Ru-106

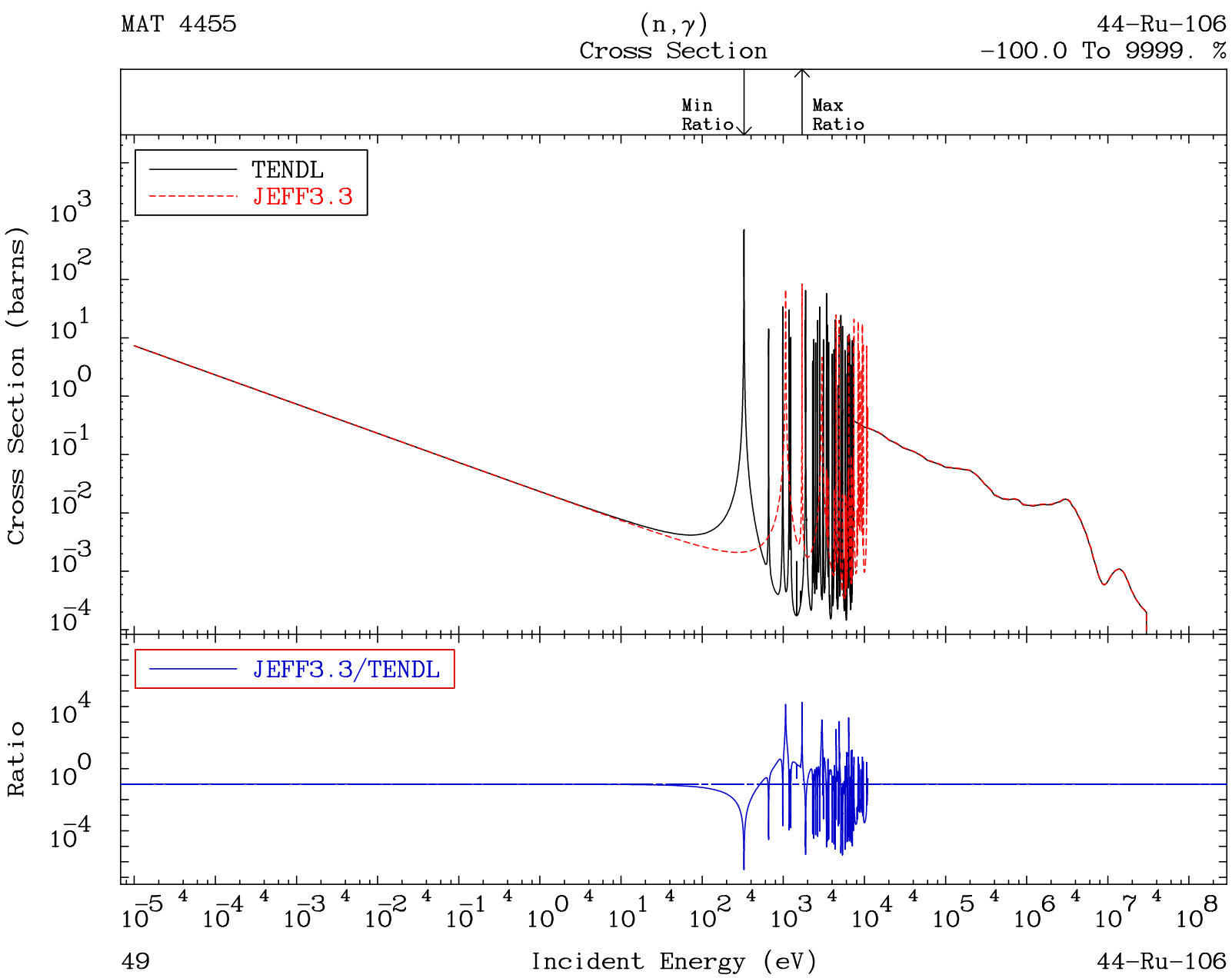

MAT 4455
MT= 77 (n,n') Level
Cross Section
44-Ru-106
-0.042 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.7974 MeV
JEFF3.3 Threshold 2.7974 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
44
Incident Energy (eV)
44-Ru-106

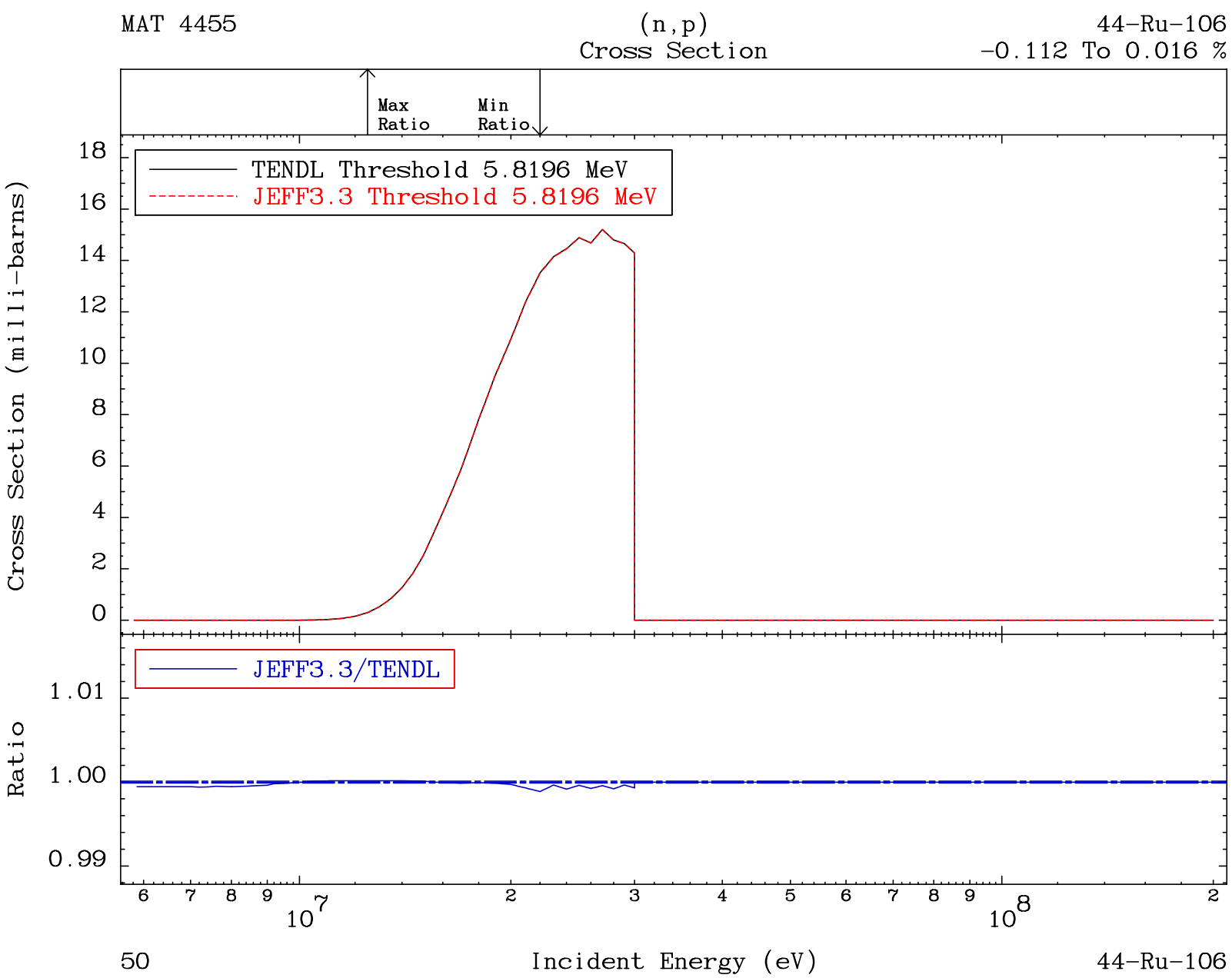

MAT 4455
MT= 78 (n,n') Level
Cross Section
44-Ru-106
-0.092 To 0.033 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.8986 MeV
JEFF3.3 Threshold 2.8986 MeV
Cross Section (micro-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
45
Incident Energy (eV)
44-Ru-106

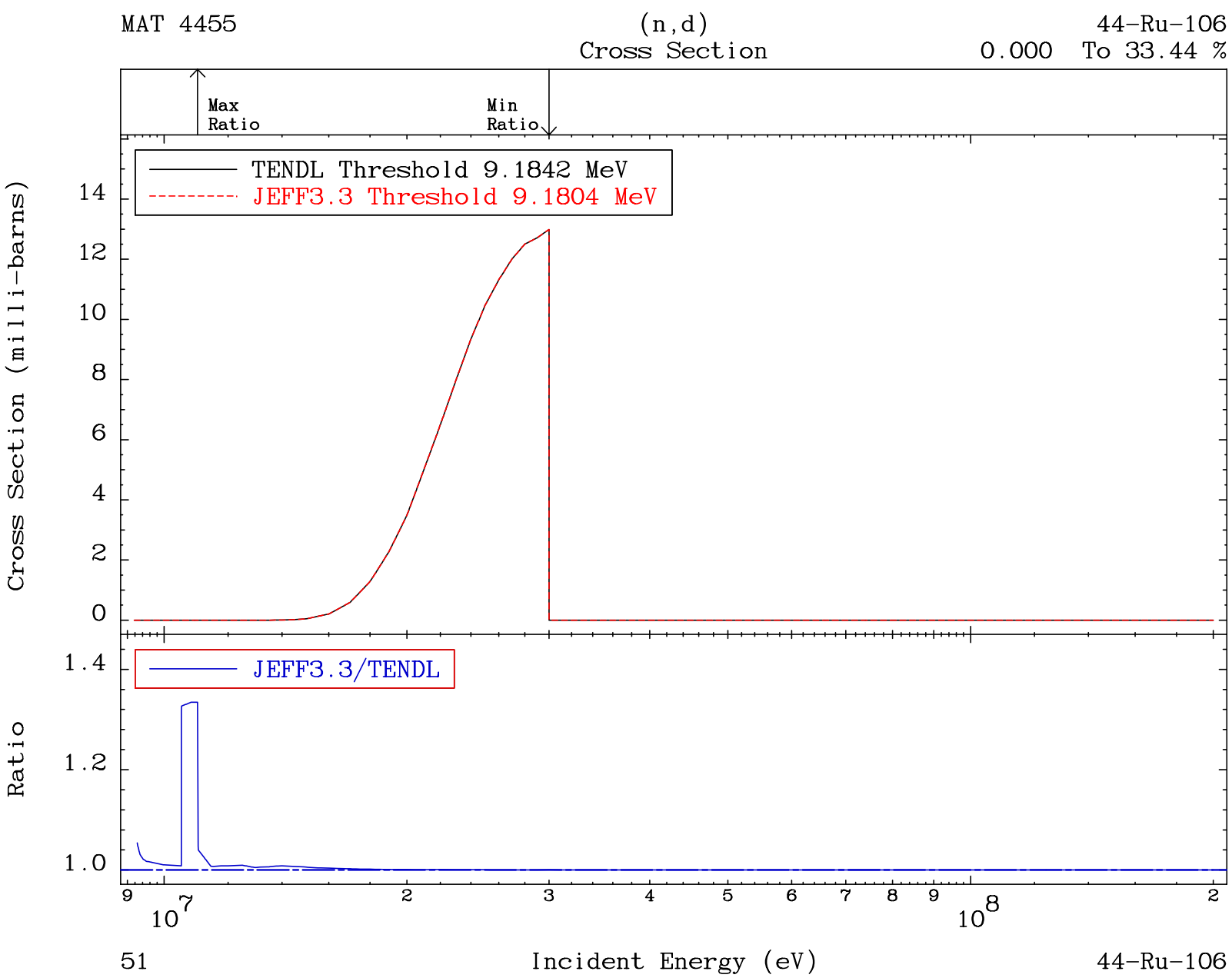

MAT 4455
MT= 79 (n,n') Level
Cross Section
44-Ru-106
-0.077 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9034 MeV
JEFF3.3 Threshold 2.9034 MeV
Cross Section (milli-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
44-Ru-106

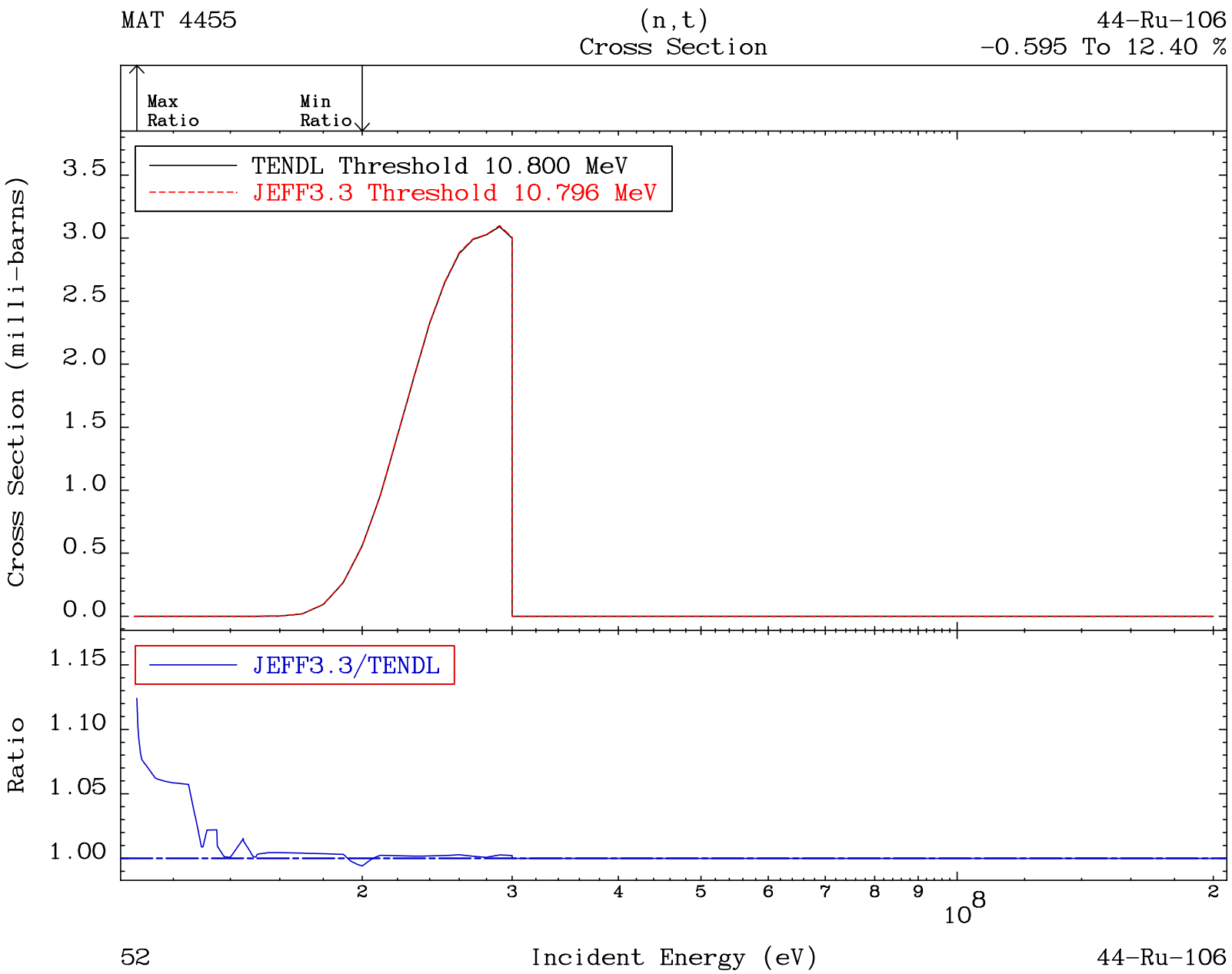

MAT 4455
MT= 80 (n,n') Level
Cross Section
44-Ru-106
-0.047 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9589 MeV
JEFF3.3 Threshold 2.9589 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
44-Ru-106

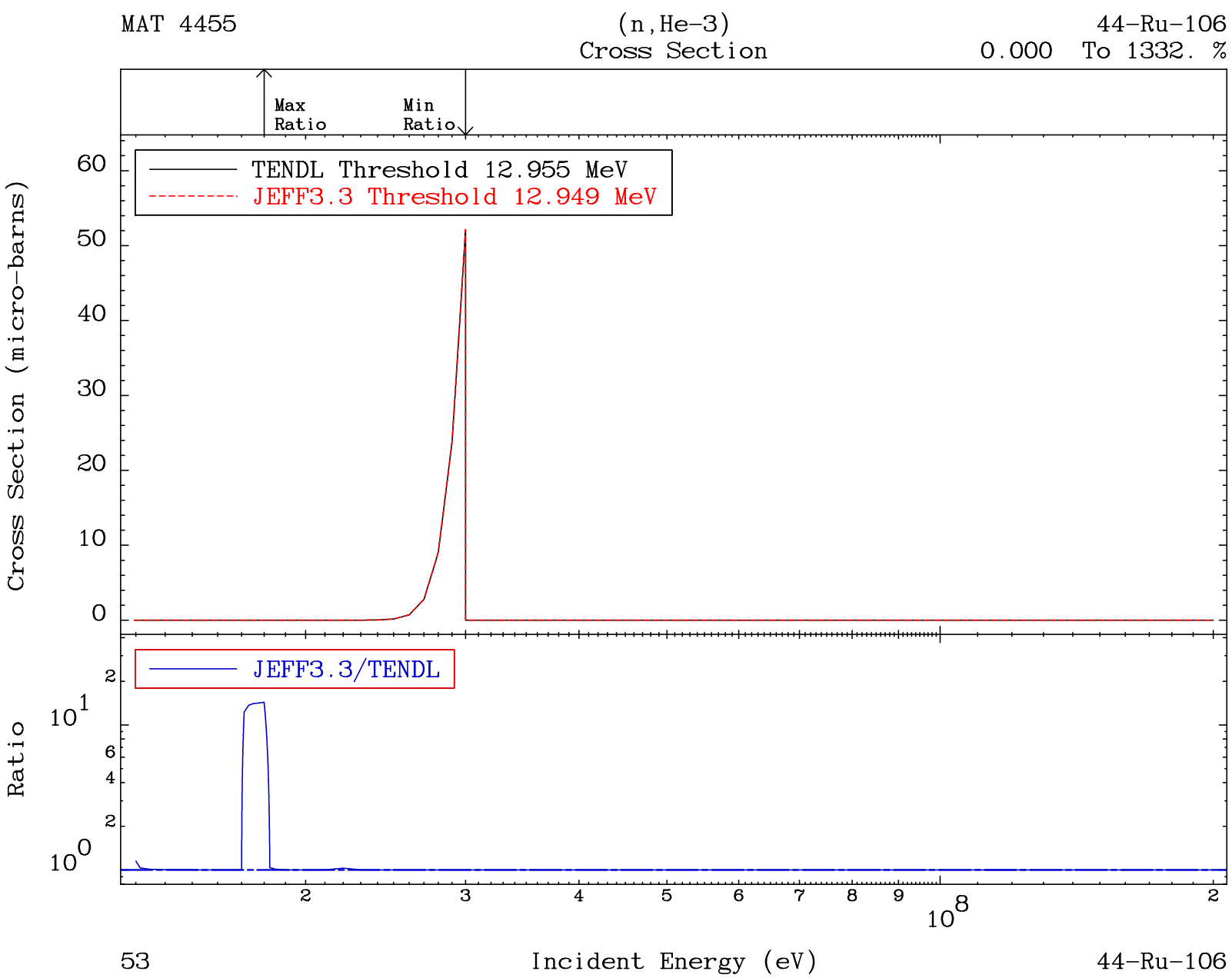

MAT 4455
(n,n') Continuum
Cross Section
44-Ru-106
-0.003 To 1.227 %
Max Ratio
Min Ratio
TENDL Threshold 2.9589 MeV
JEFF3.3 Threshold 2.9589 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
44-Ru-106

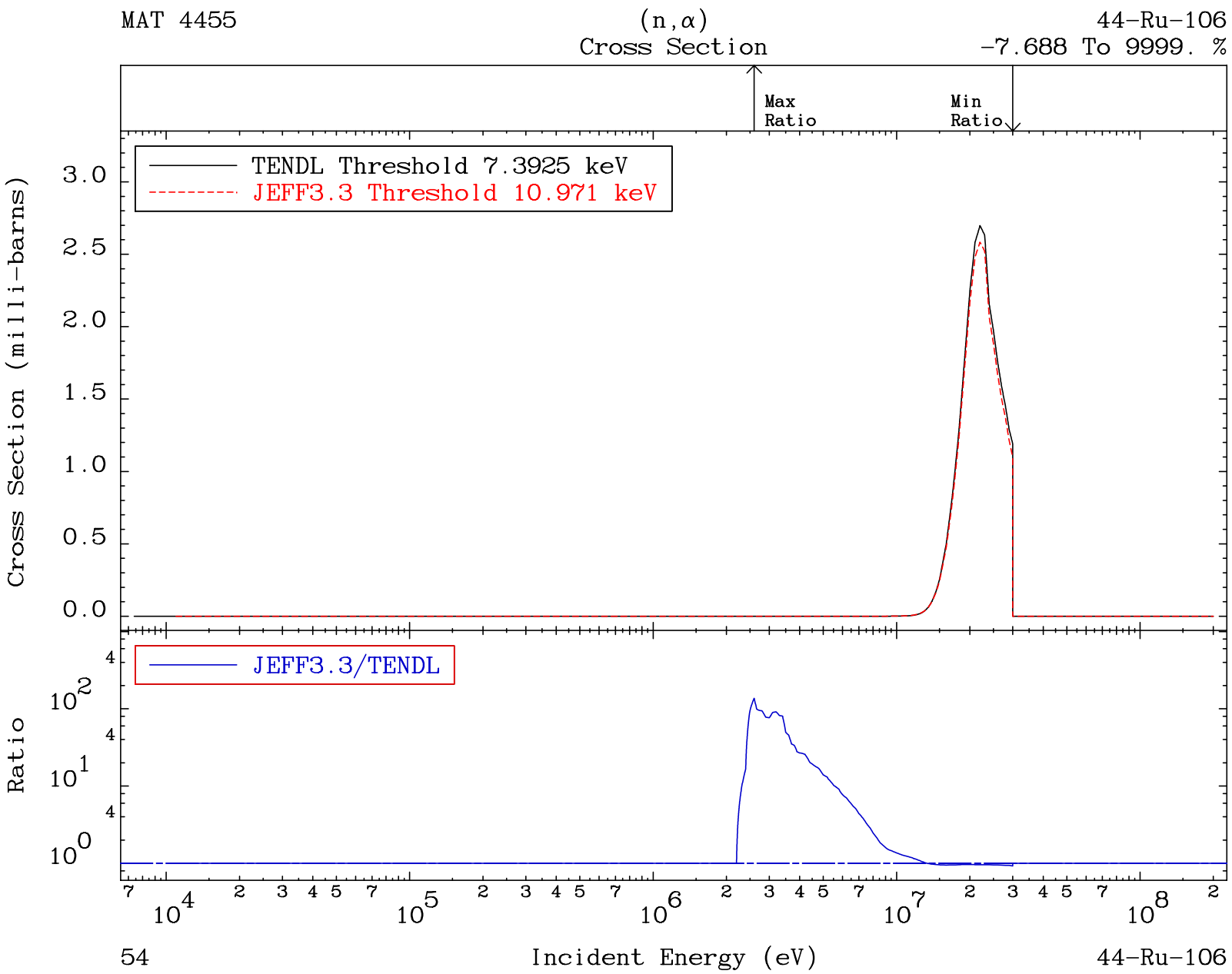

MAT 4455
(n,γ)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
49
44-Ru-106

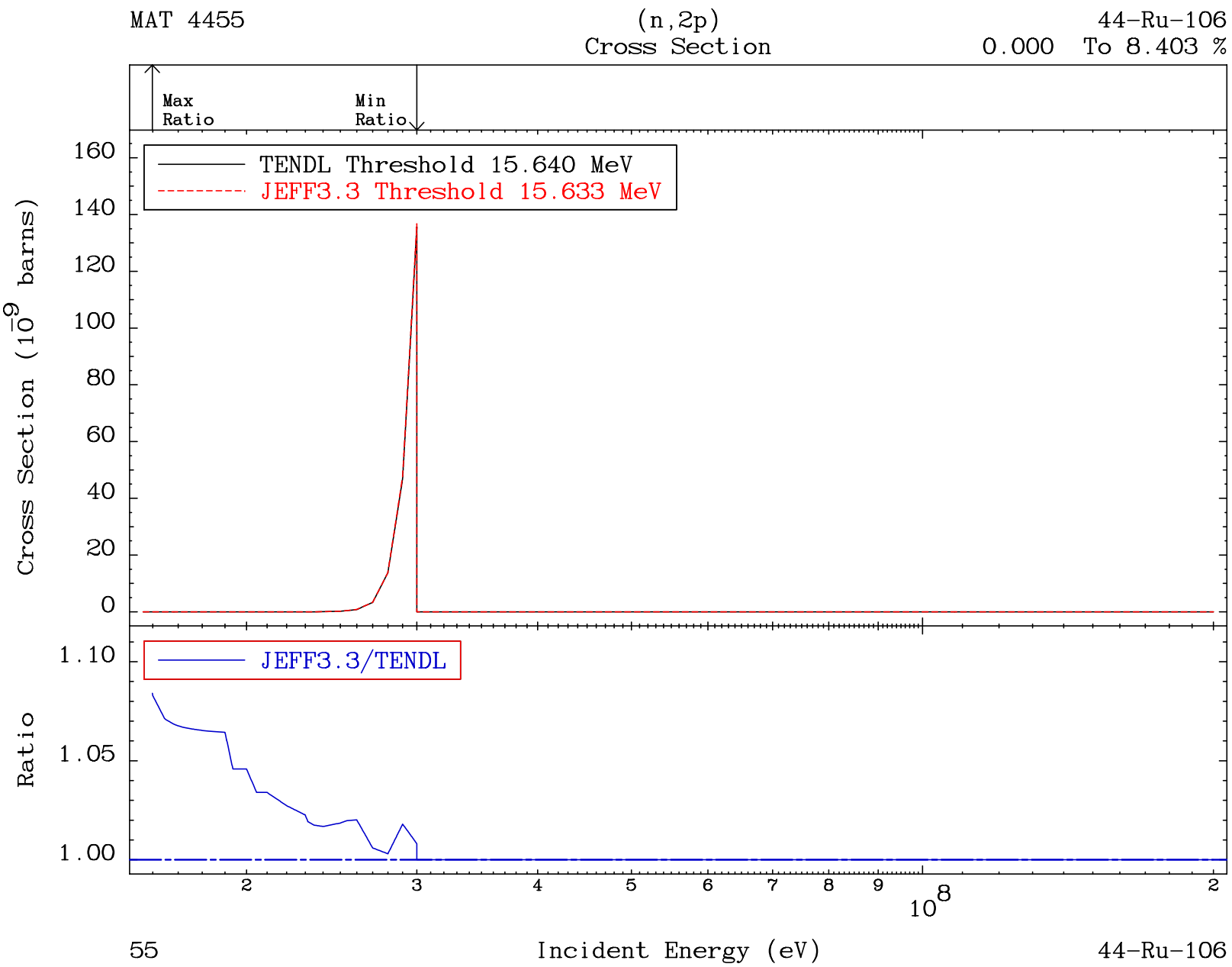

MAT 4455
(n,p)
Cross Section
44-Ru-106
-0.112 To 0.016 %
Max Ratio
Min Ratio
TENDL Threshold 5.8196 MeV
JEFF3.3 Threshold 5.8196 MeV
Cross Section (milli-barns)
18
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
50
Incident Energy (eV)
44-Ru-106

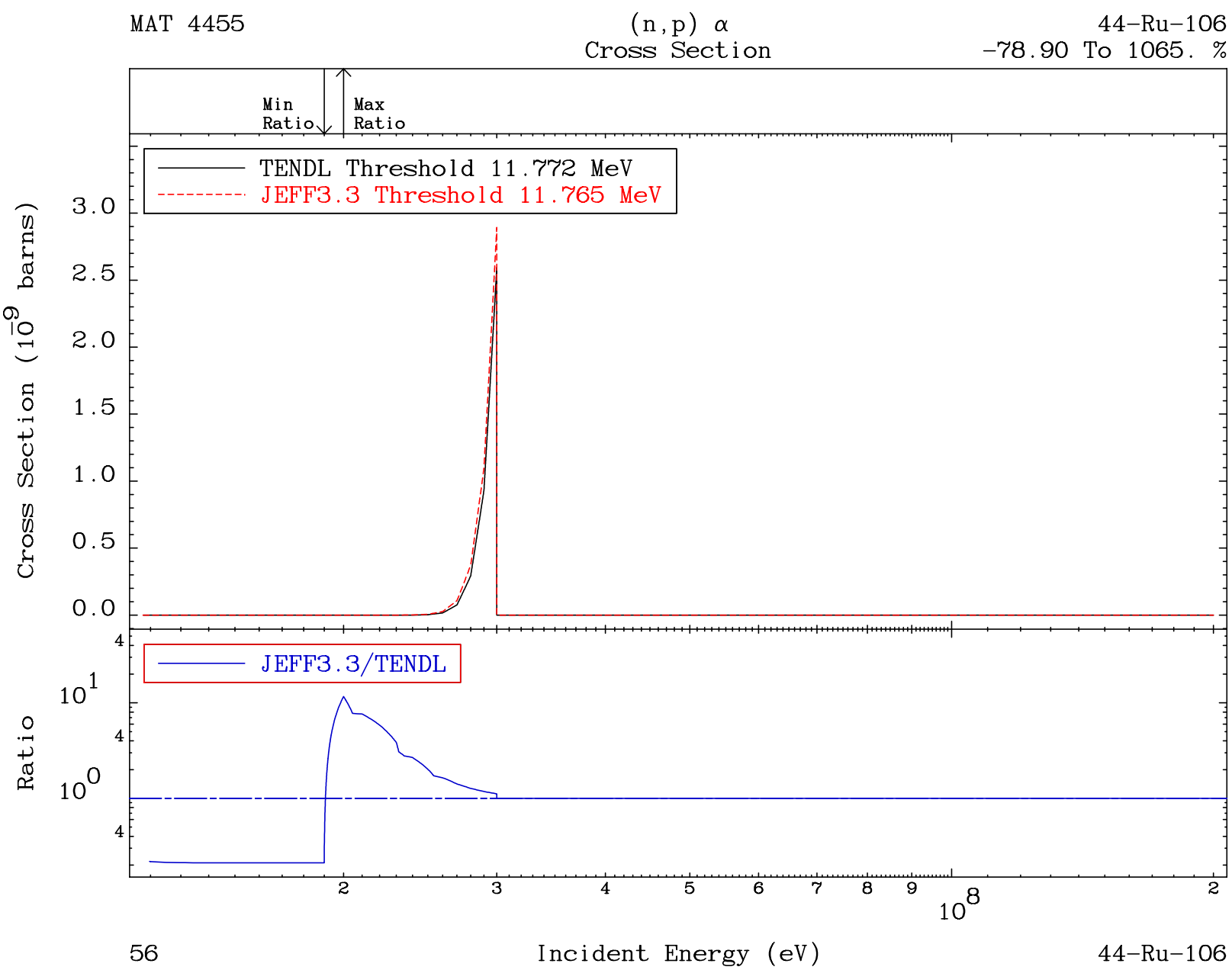

MAT 4455
(n,d)
Cross Section
44-Ru-106
0.000 To 33.44 %
Max Ratio
Min Ratio
TENDL Threshold 9.1842 MeV
JEFF3.3 Threshold 9.1804 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
JEFF3.3/TENDL
Ratio
1.0
1.2
1.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
44-Ru-106

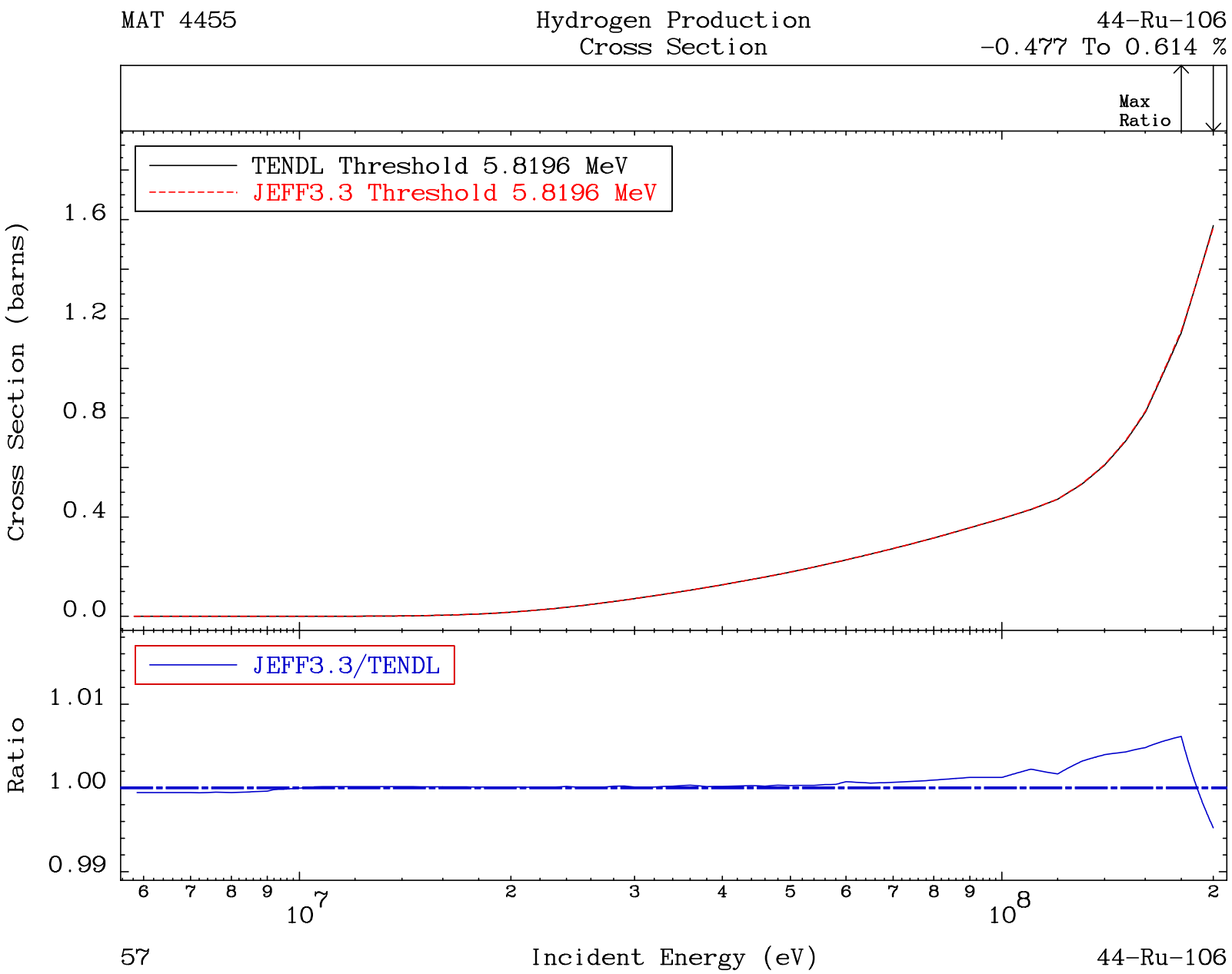

MAT 4455
(n,t)
Cross Section
44-Ru-106
-0.595 To 12.40 %
Max Ratio
Min Ratio
TENDL Threshold 10.800 MeV
JEFF3.3 Threshold 10.796 MeV
Cross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
44-Ru-106

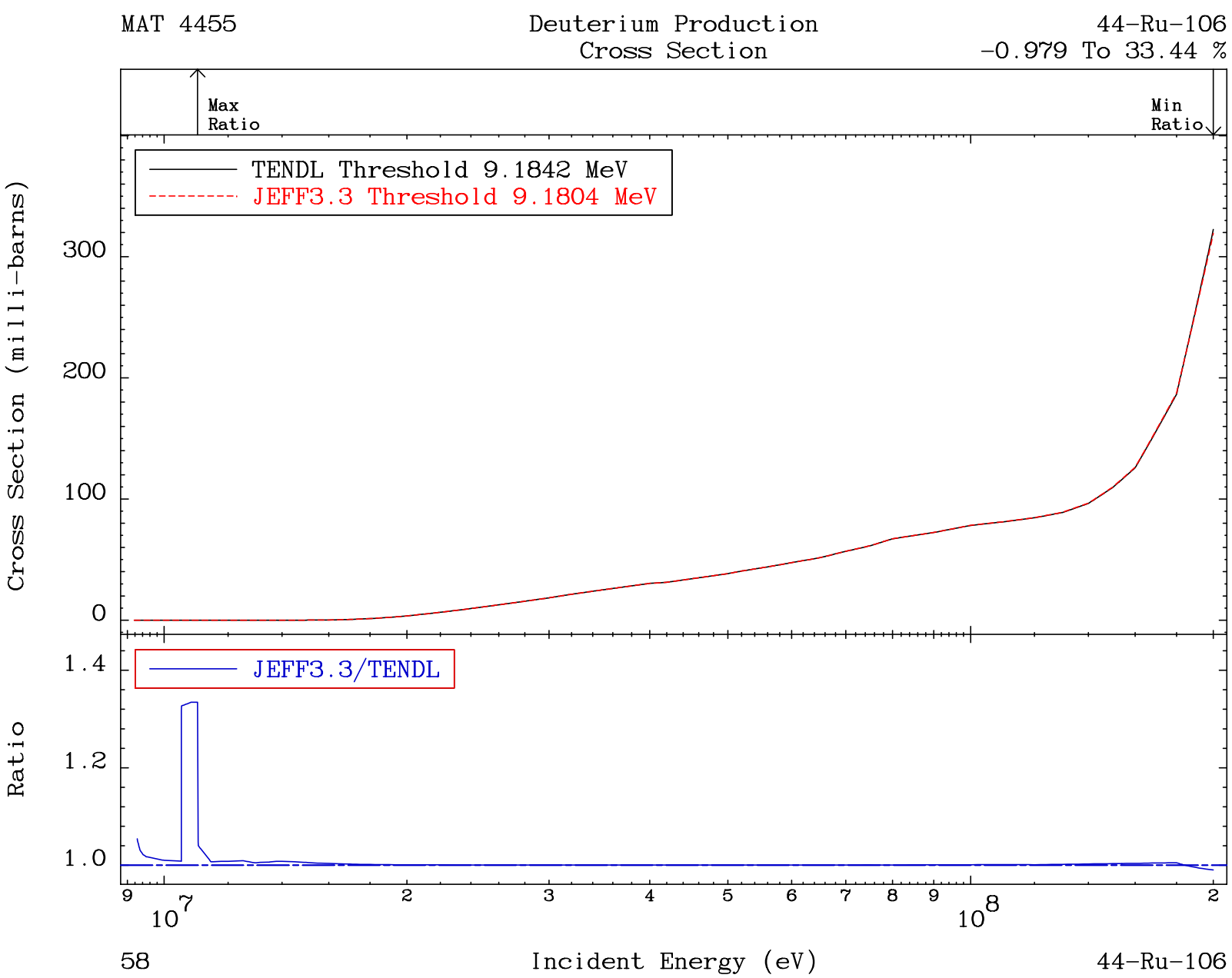

MAT 4455
(n,He-3)
Cross Section
44-Ru-106
0.000 To 1332. %
Max Ratio
Min Ratio
TENDL Threshold 12.955 MeV
JEFF3.3 Threshold 12.949 MeV
Cross Section (micro-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
44-Ru-106

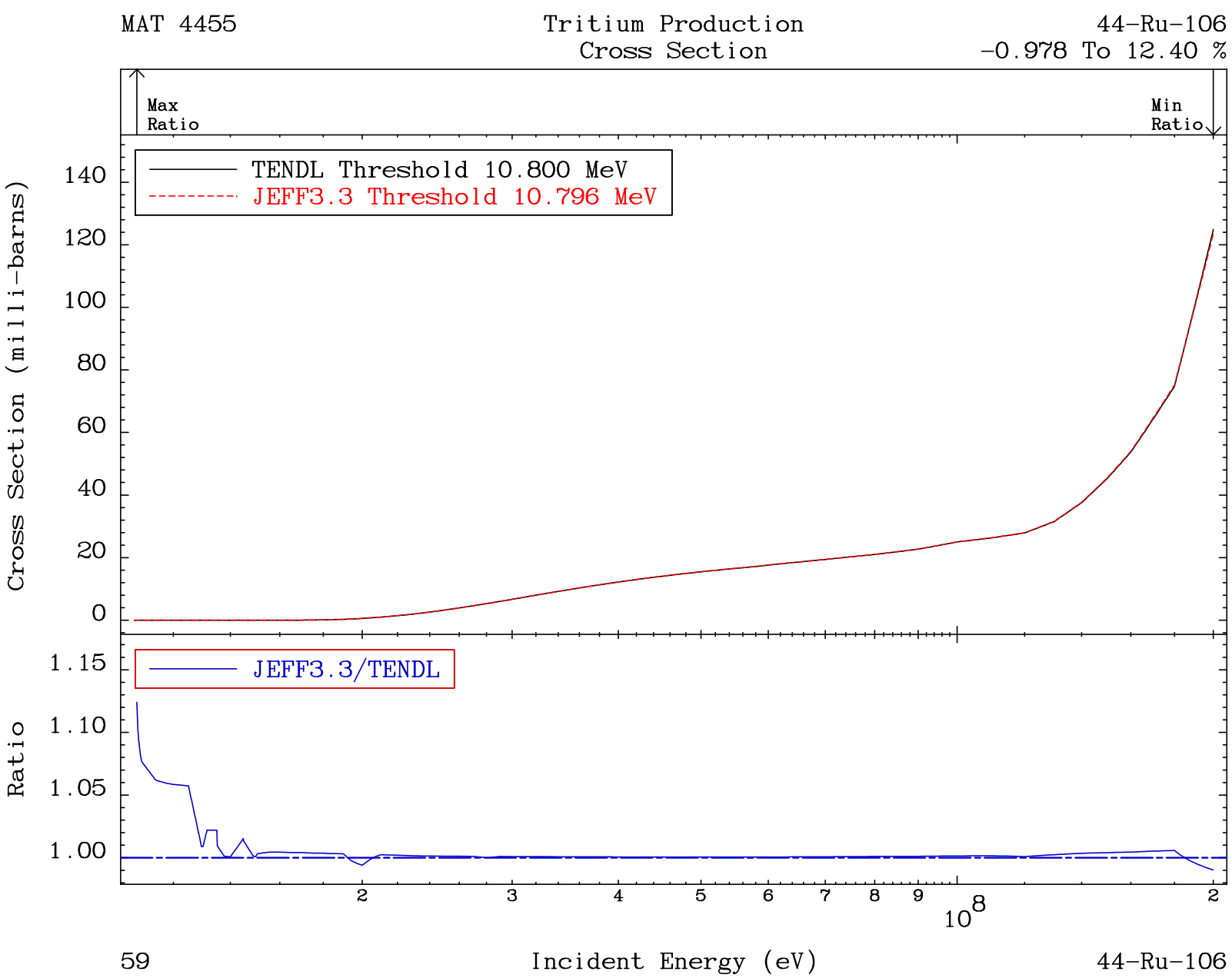

MAT 4455
(n,α)
Cross Section
44-Ru-106
-7.688 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.3925 keV
JEFF3.3 Threshold 10.971 keV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
10^4
10^5
10^6
10^7
10^8
54
Incident Energy (eV)
44-Ru-106

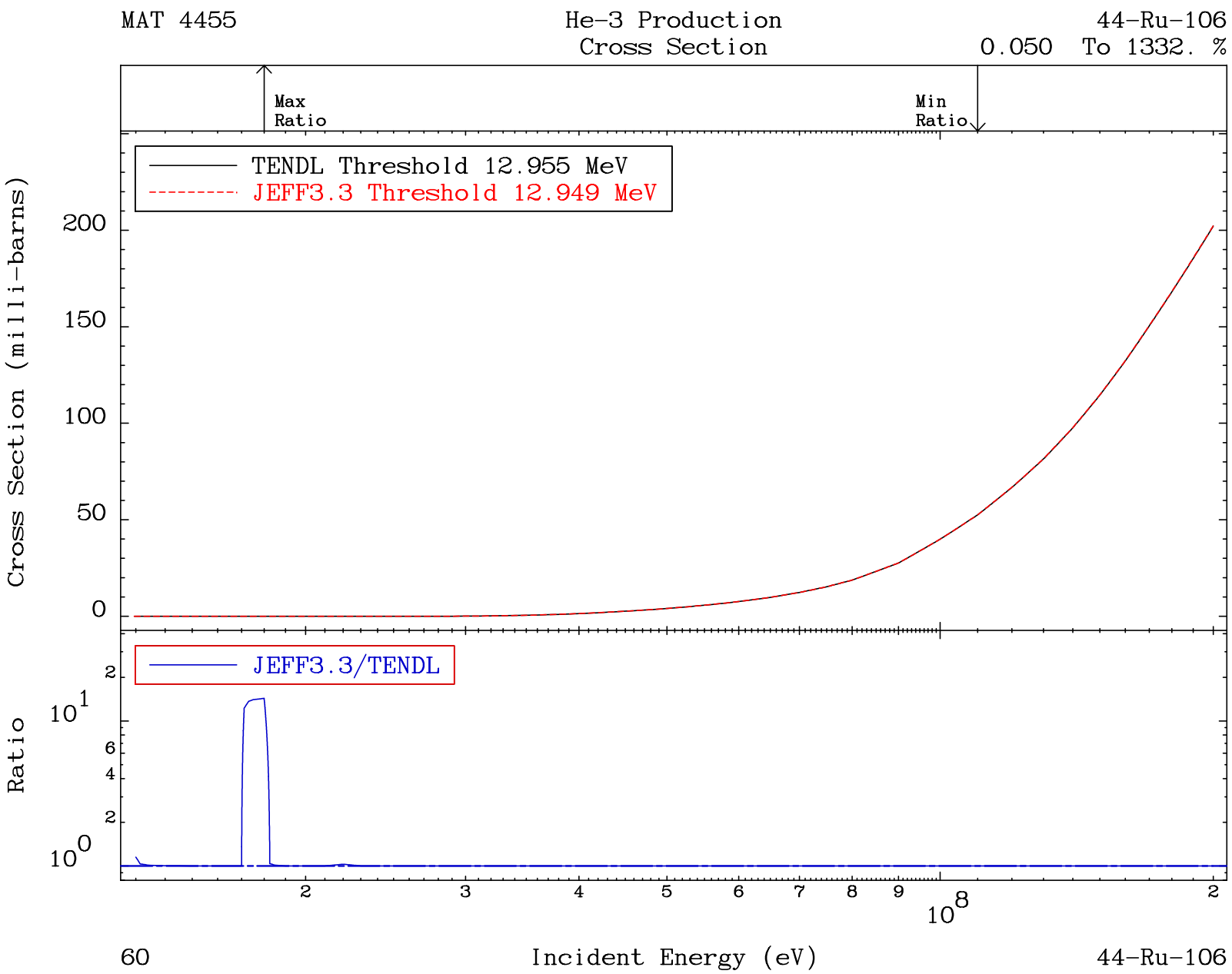

MAT 4455
(n,2p)
Cross Section
44-Ru-106
0.000 To 8.403 %
Max Ratio
Min Ratio
TENDL Threshold 15.640 MeV
JEFF3.3 Threshold 15.633 MeV
Cross Section (10^{-9} barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
44-Ru-106

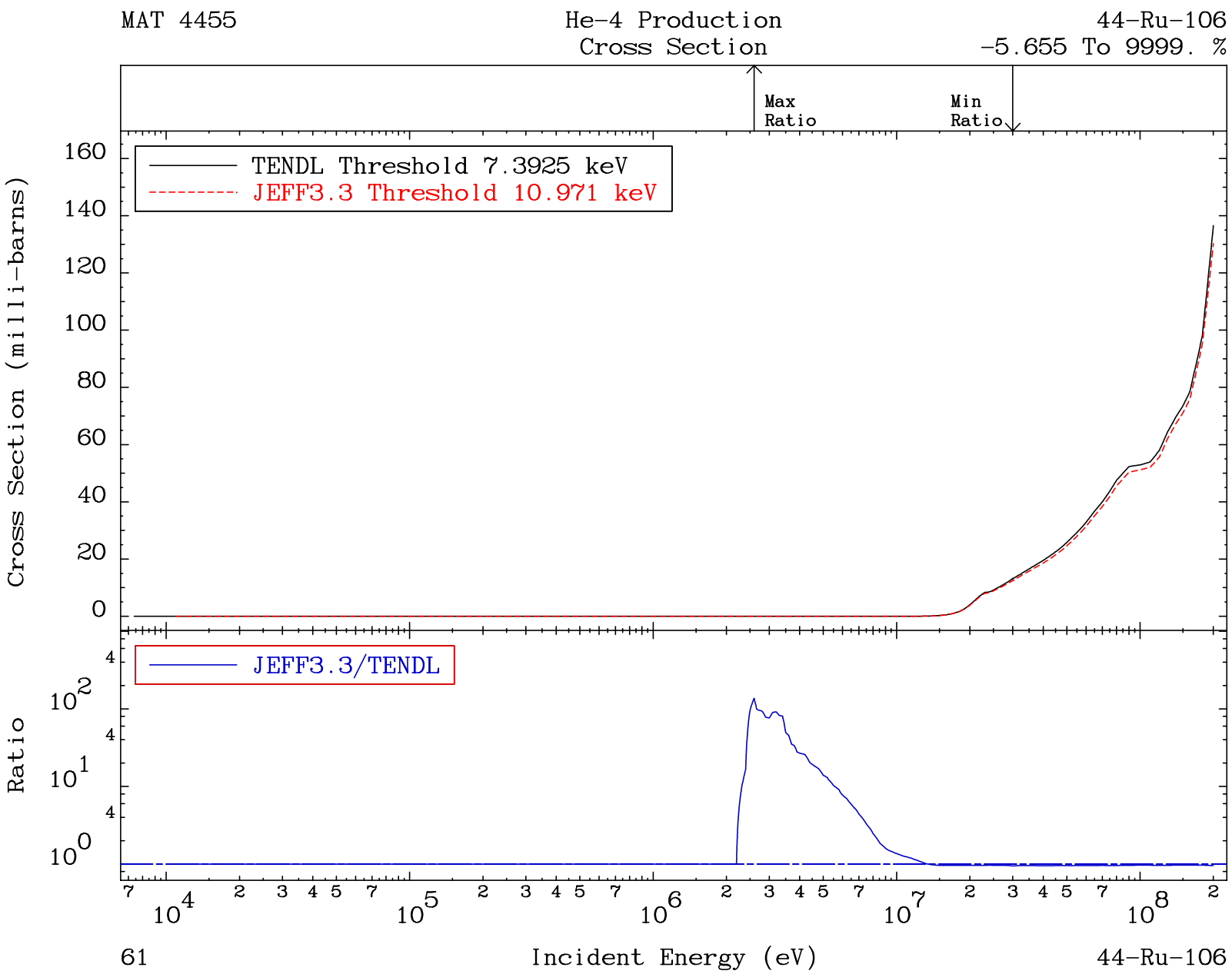

MAT 4455
(n,p) α
Cross Section
44-Ru-106
-78.90 To 1065. %
Min Ratio
Max Ratio
TENDL Threshold 11.772 MeV
JEFF3.3 Threshold 11.765 MeV
Cross Section (10^-9 barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
44-Ru-106

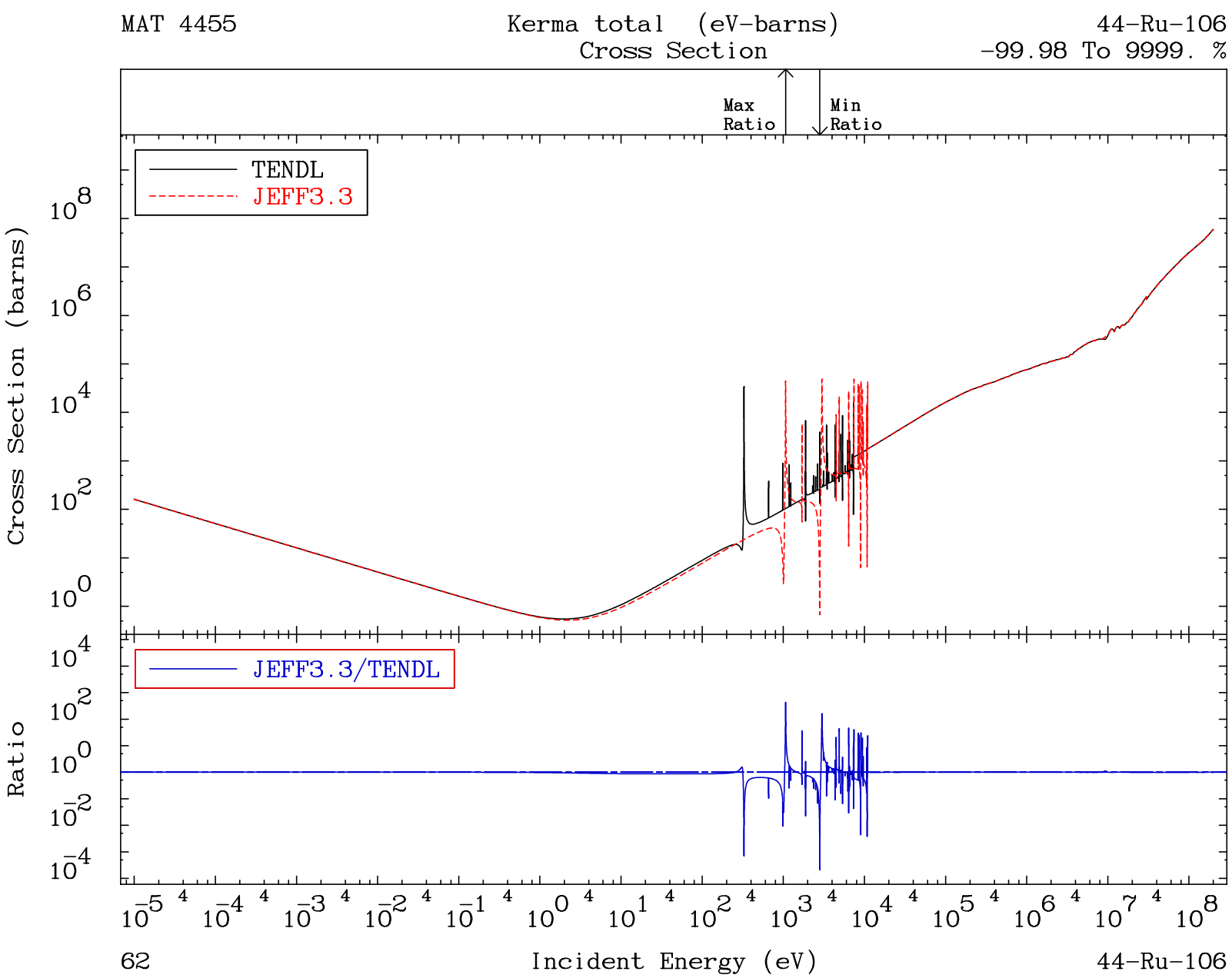

MAT 4455
Hydrogen Production
Cross Section
44-Ru-106
-0.477 To 0.614 %
Max
Ratio
TENDL Threshold 5.8196 MeV
JEFF3.3 Threshold 5.8196 MeV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
57
Incident Energy (eV)
44-Ru-106

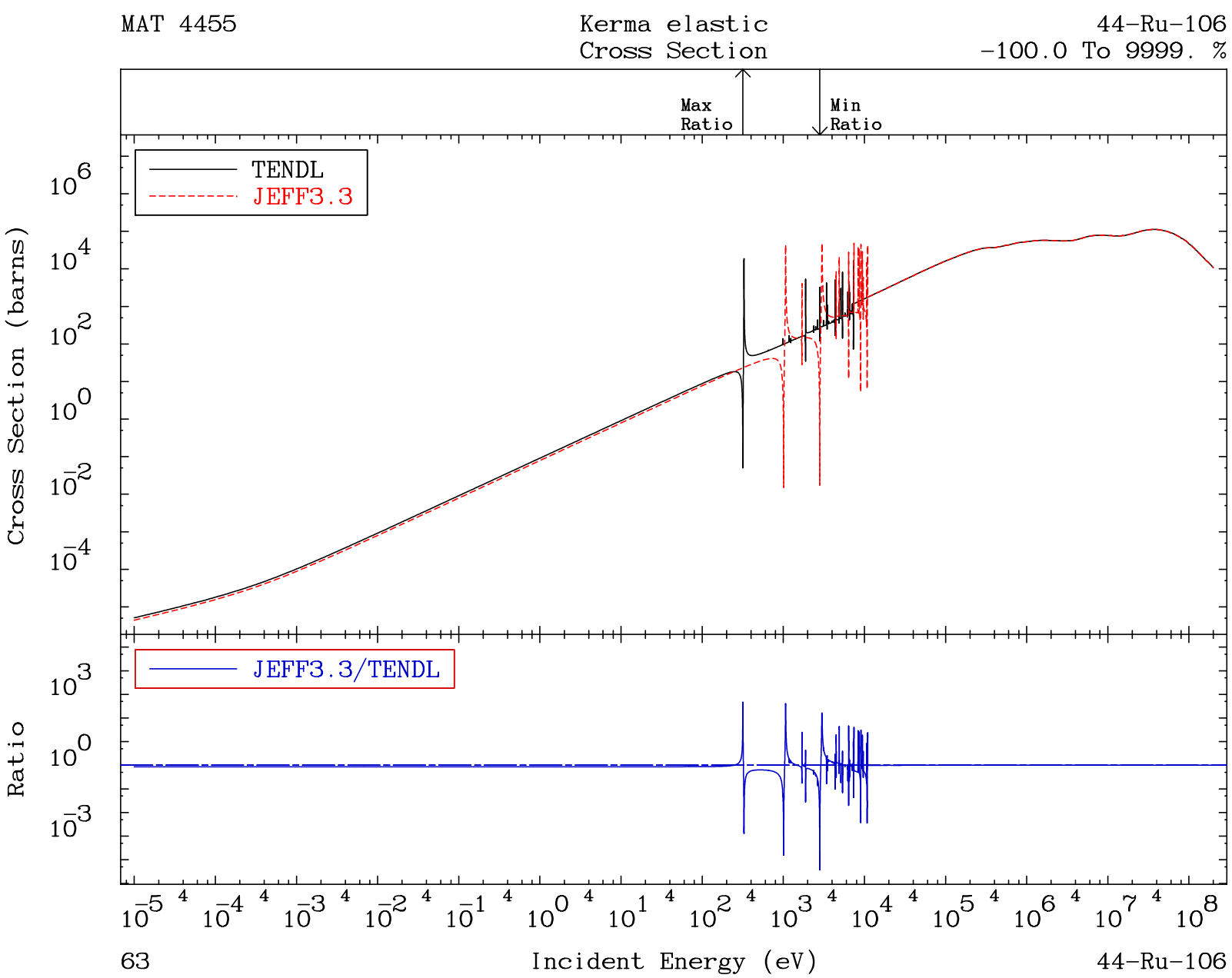

MAT 4455
Deuterium Production
Cross Section
44-Ru-106
-0.979 To 33.44 %
Max
Ratio
Min
Ratio
TENDL Threshold 9.1842 MeV
JEFF3.3 Threshold 9.1804 MeV
Cross Section (milli-barns)
300
200
100
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
44-Ru-106

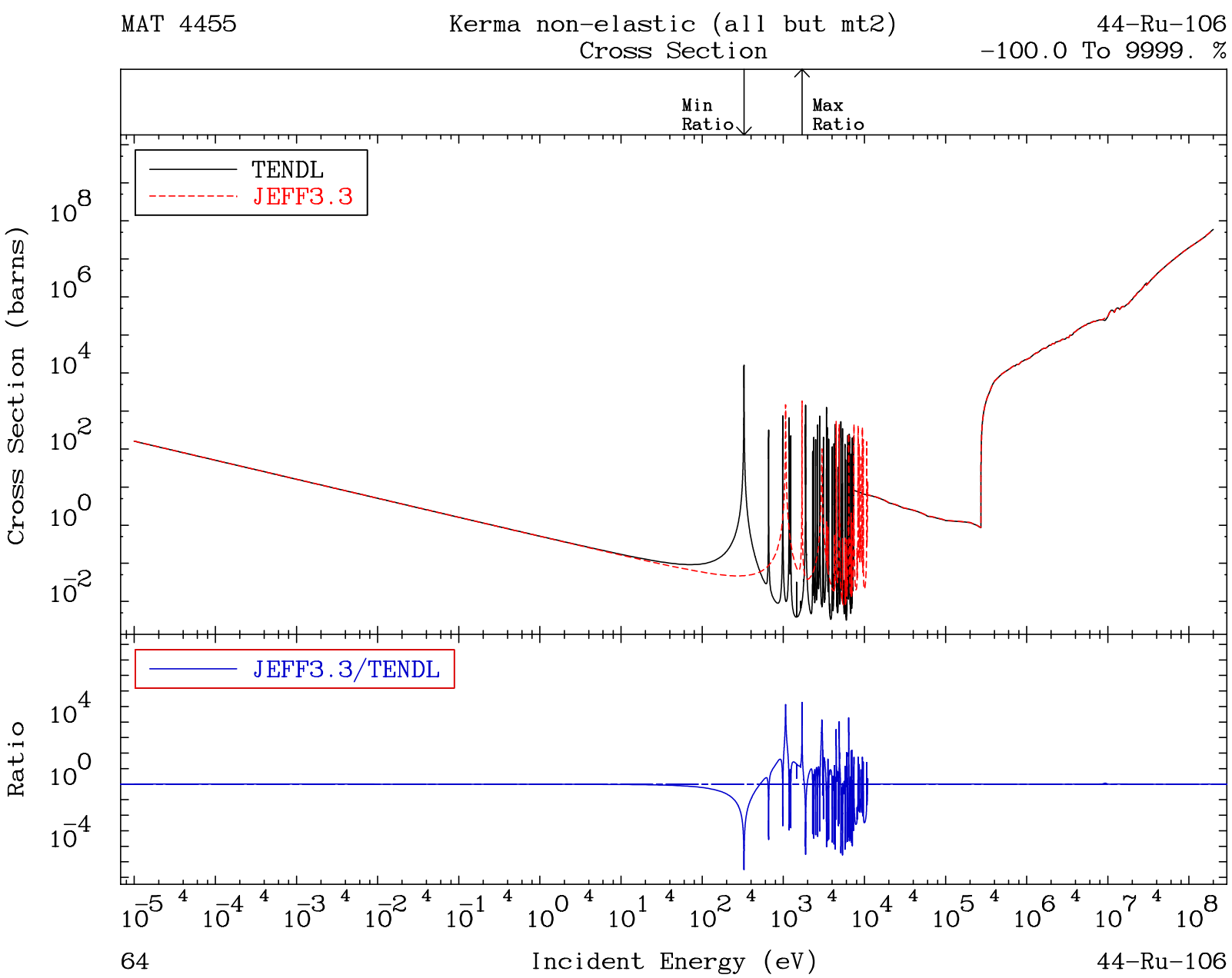

MAT 4455
Tritium Production
Cross Section
44-Ru-106
-0.978 To 12.40 %
Max
Ratio
Min
Ratio
TENDL Threshold 10.800 MeV
JEFF3.3 Threshold 10.796 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
59
Incident Energy (eV)
44-Ru-106

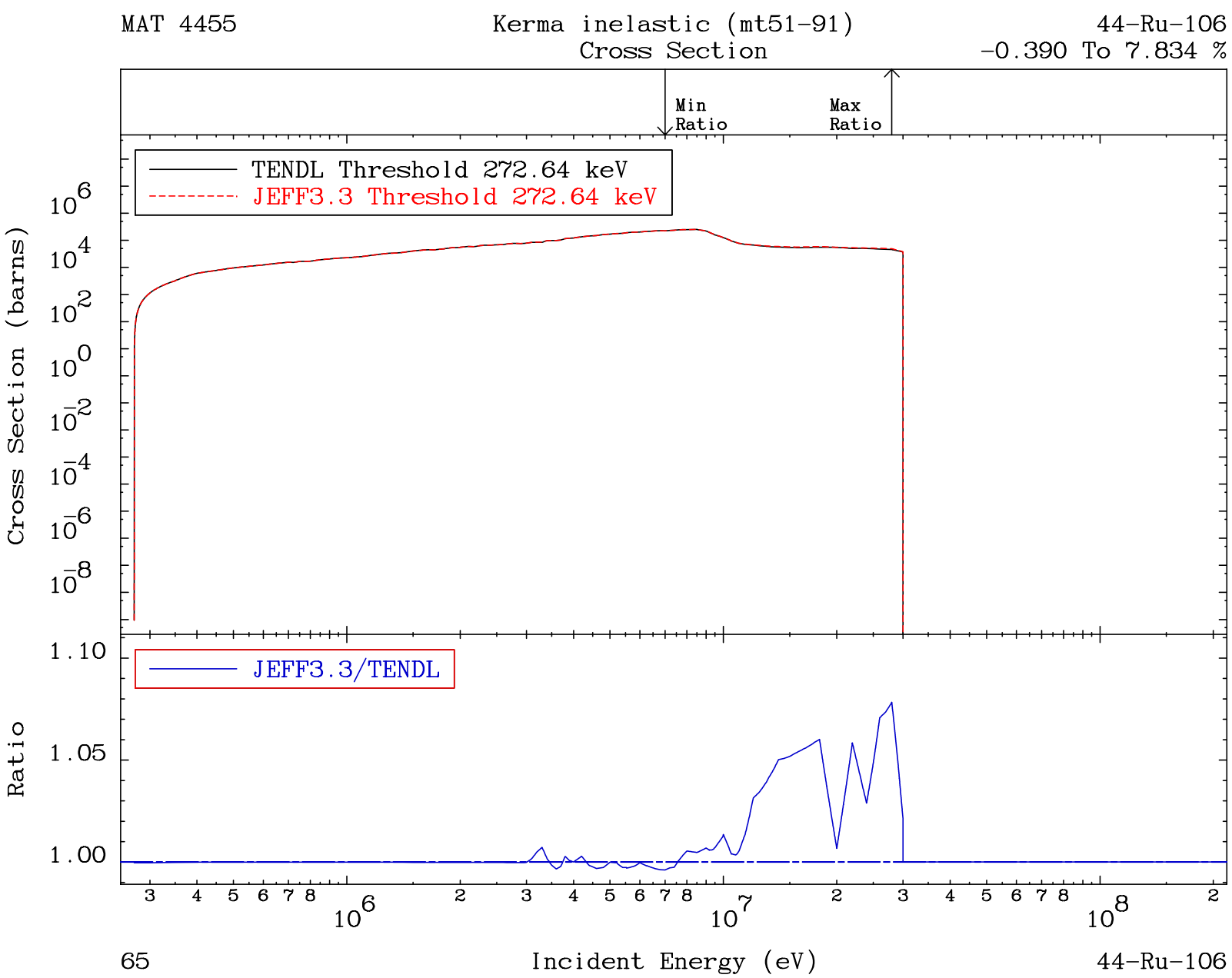

MAT 4455
He-3 Production
Cross Section
44-Ru-106
0.050 To 1332. %
Max Ratio
Min Ratio
TENDL Threshold 12.955 MeV
JEFF3.3 Threshold 12.949 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^1
10^0
2
6
4
2
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
44-Ru-106

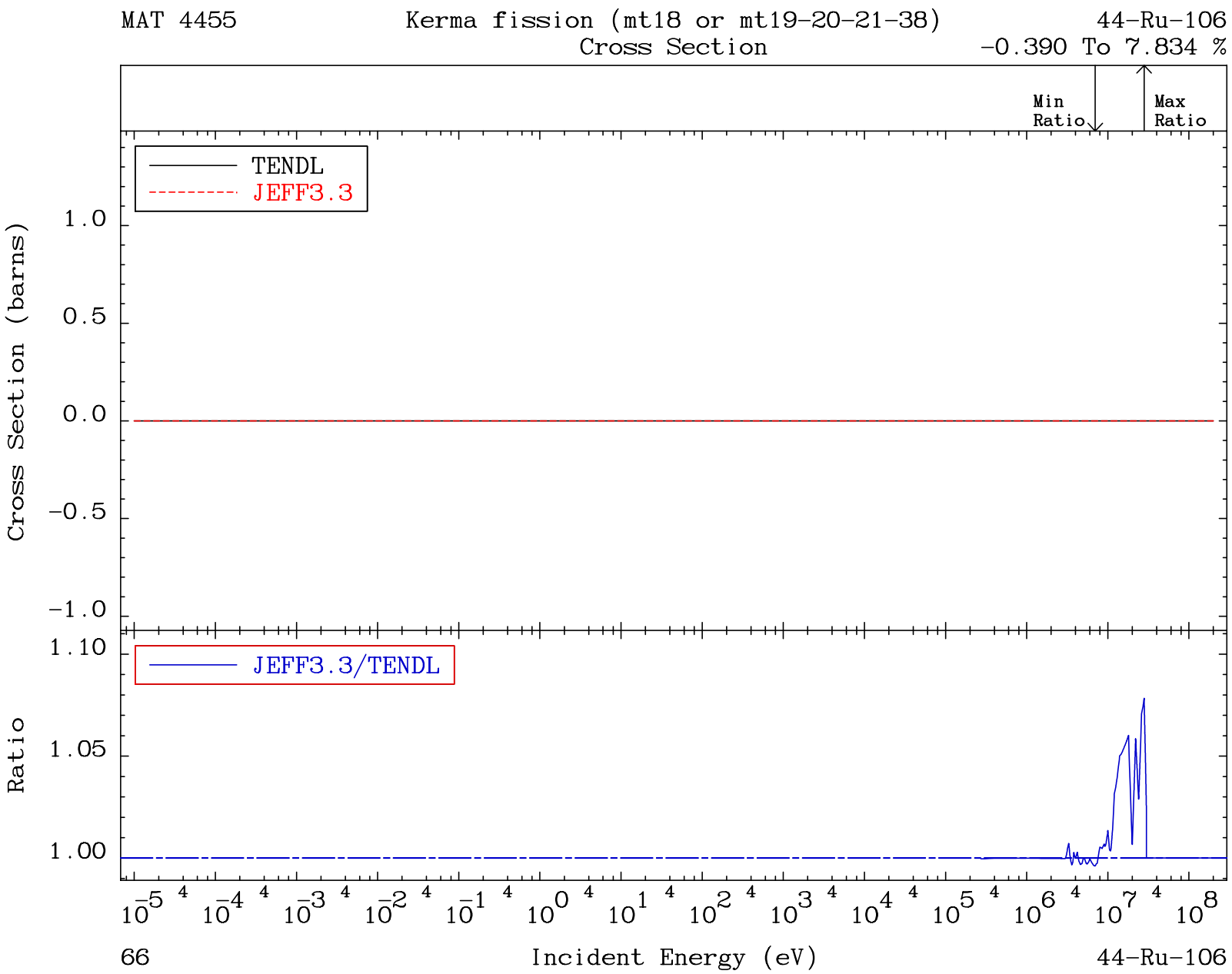

MAT 4455
He-4 Production
Cross Section
44-Ru-106
-5.655 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 7.3925 keV
JEFF3.3 Threshold 10.971 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
10^4
10^5
10^6
10^7
10^8
61
Incident Energy (eV)
44-Ru-106

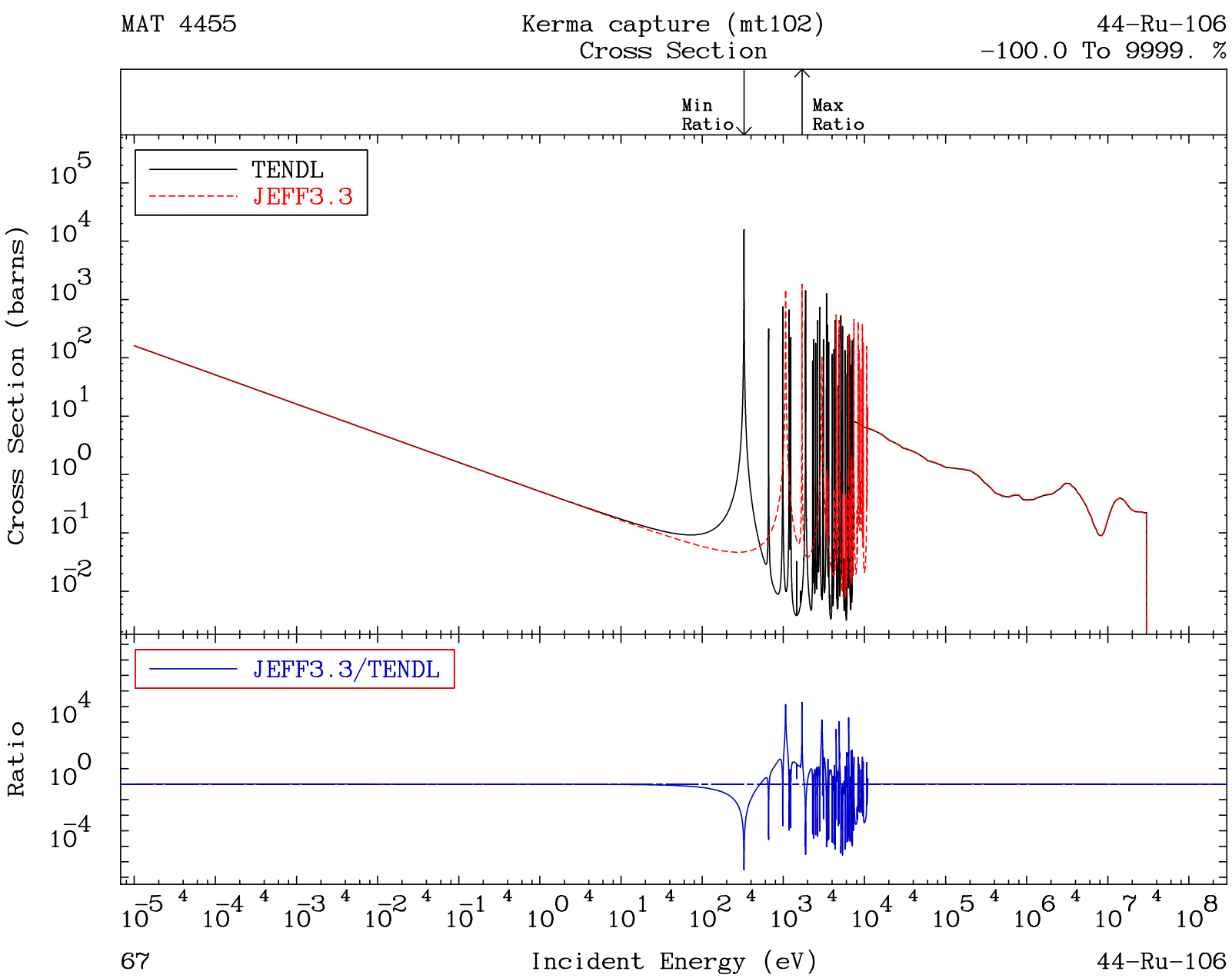

MAT 4455
Kerma total (eV-barns)
Cross Section
44-Ru-106
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
44-Ru-106

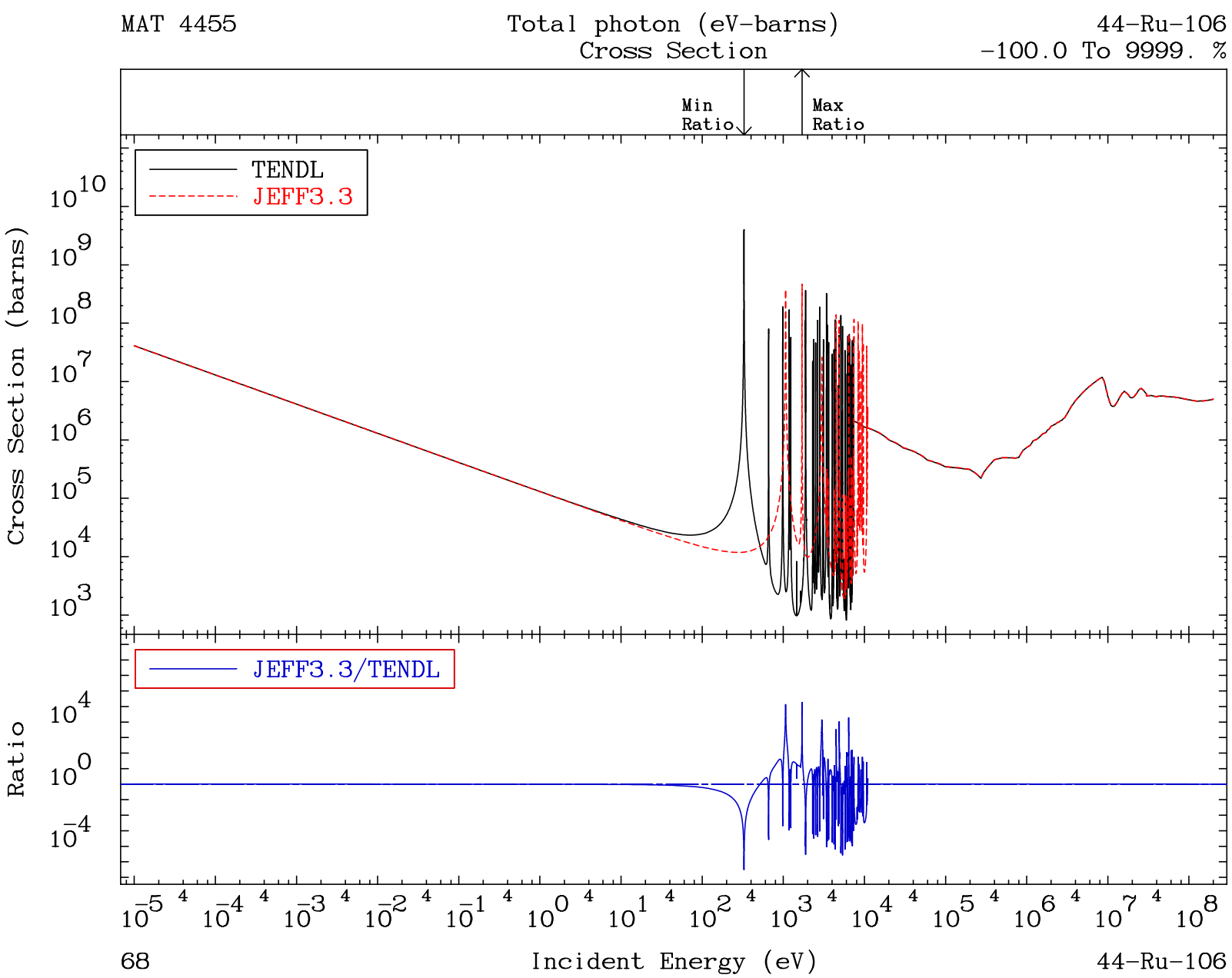

MAT 4455
Kerma elastic
Cross Section
44-Ru-106
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
63
44-Ru-106

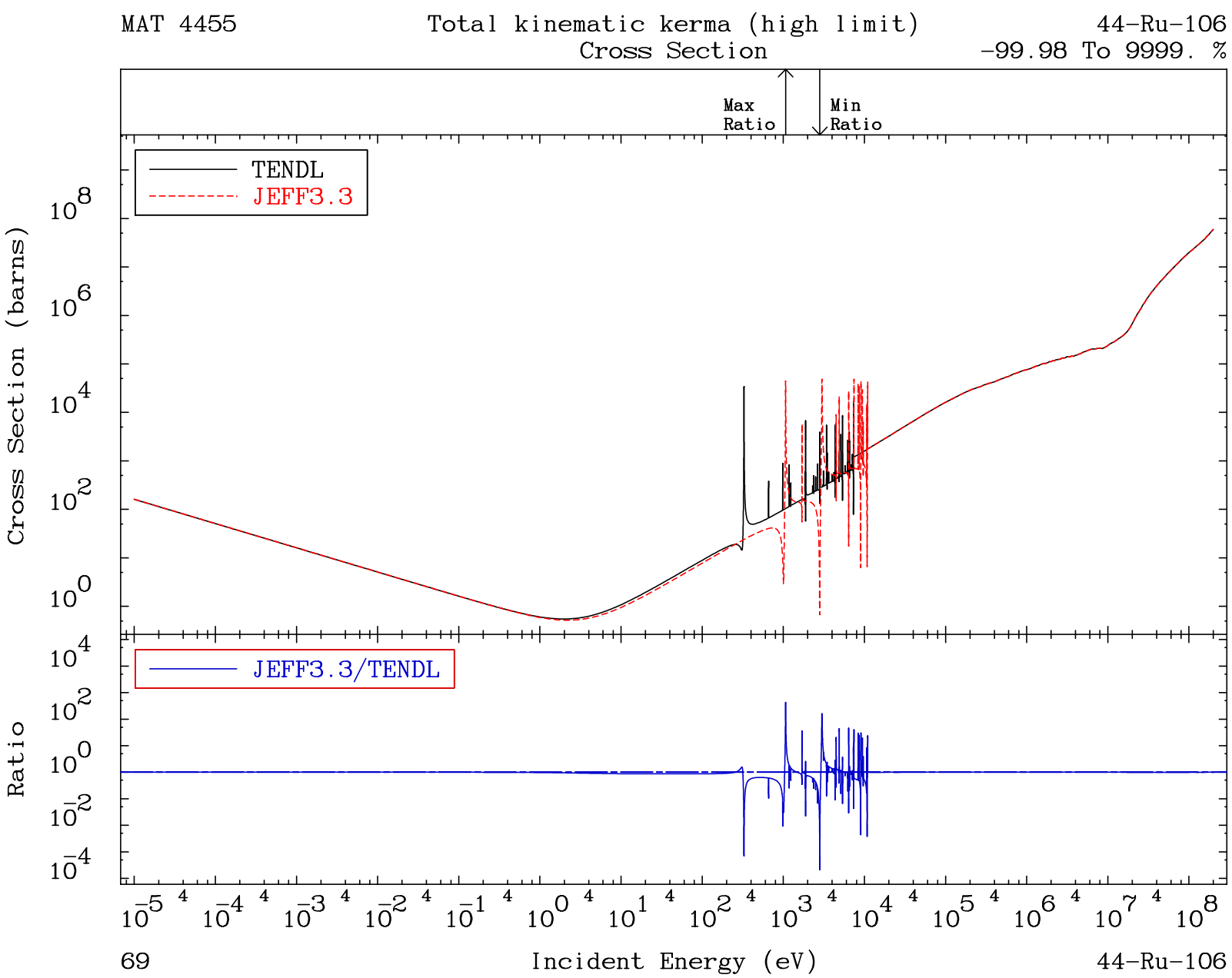

MAT 4455
Kerma non-elastic (all but mt2)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
44-Ru-106

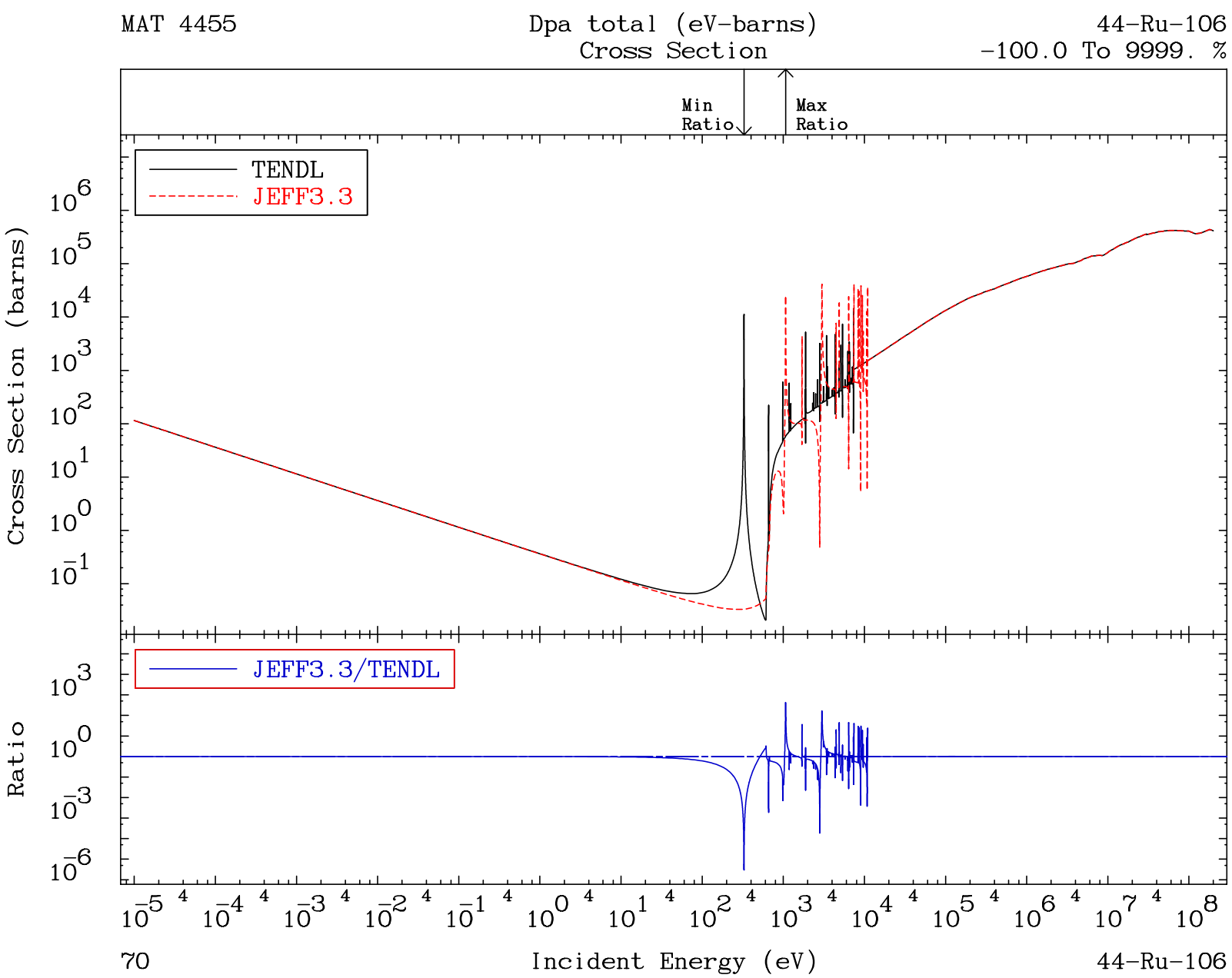

MAT 4455
Kerma inelastic (mt51-91)
Cross Section
44-Ru-106
-0.390 To 7.834 %
Min Ratio
Max Ratio
TENDL Threshold 272.64 keV
JEFF3.3 Threshold 272.64 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
44-Ru-106

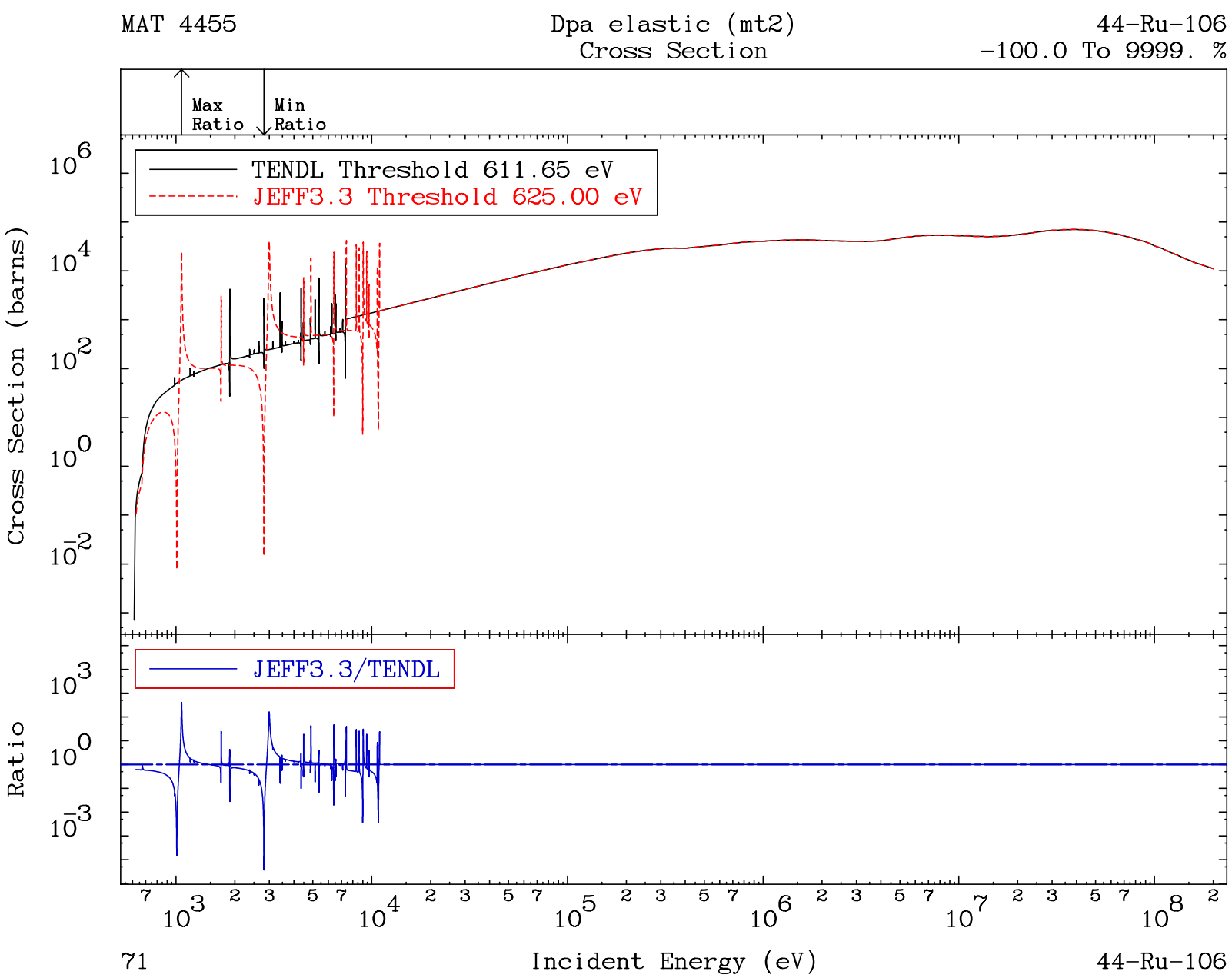

MAT 4455
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
44-Ru-106
-0.390 To 7.834 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.10
1.05
1.00
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
66
Incident Energy (eV)
44-Ru-106

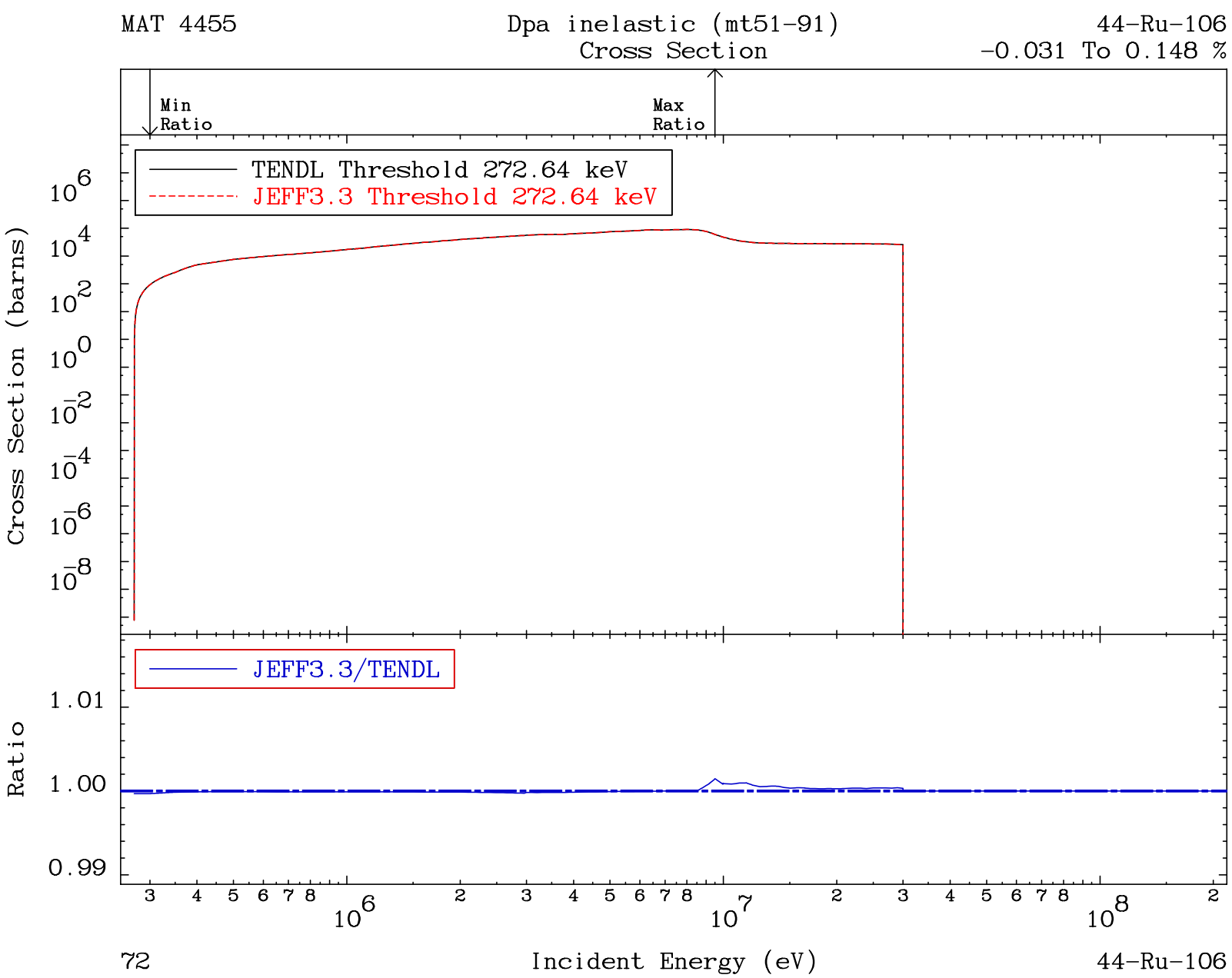

MAT 4455
Kerma capture (mt102)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
67
Incident Energy (eV)
44-Ru-106

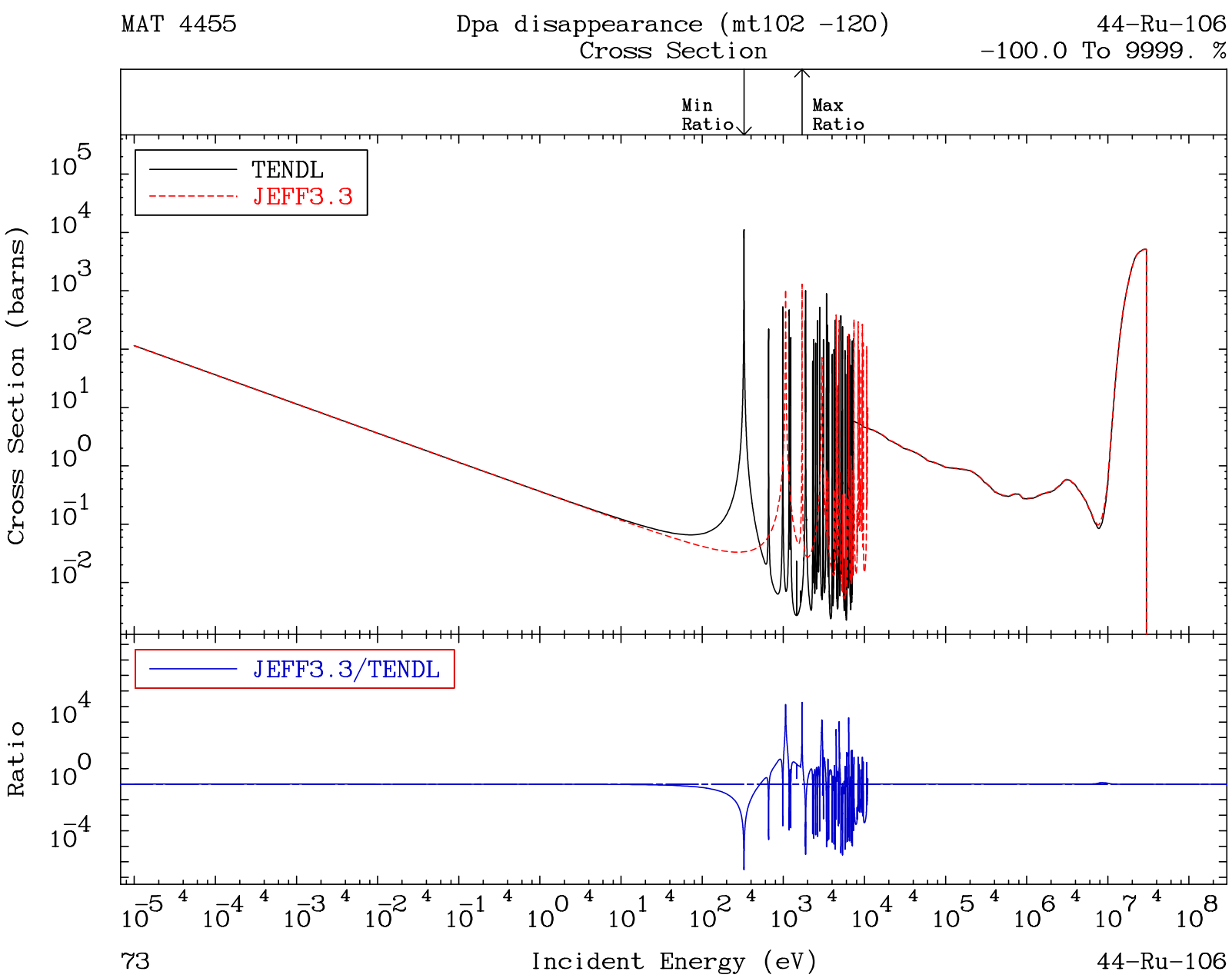

MAT 4455
Total photon (eV-barns)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
68
44-Ru-106

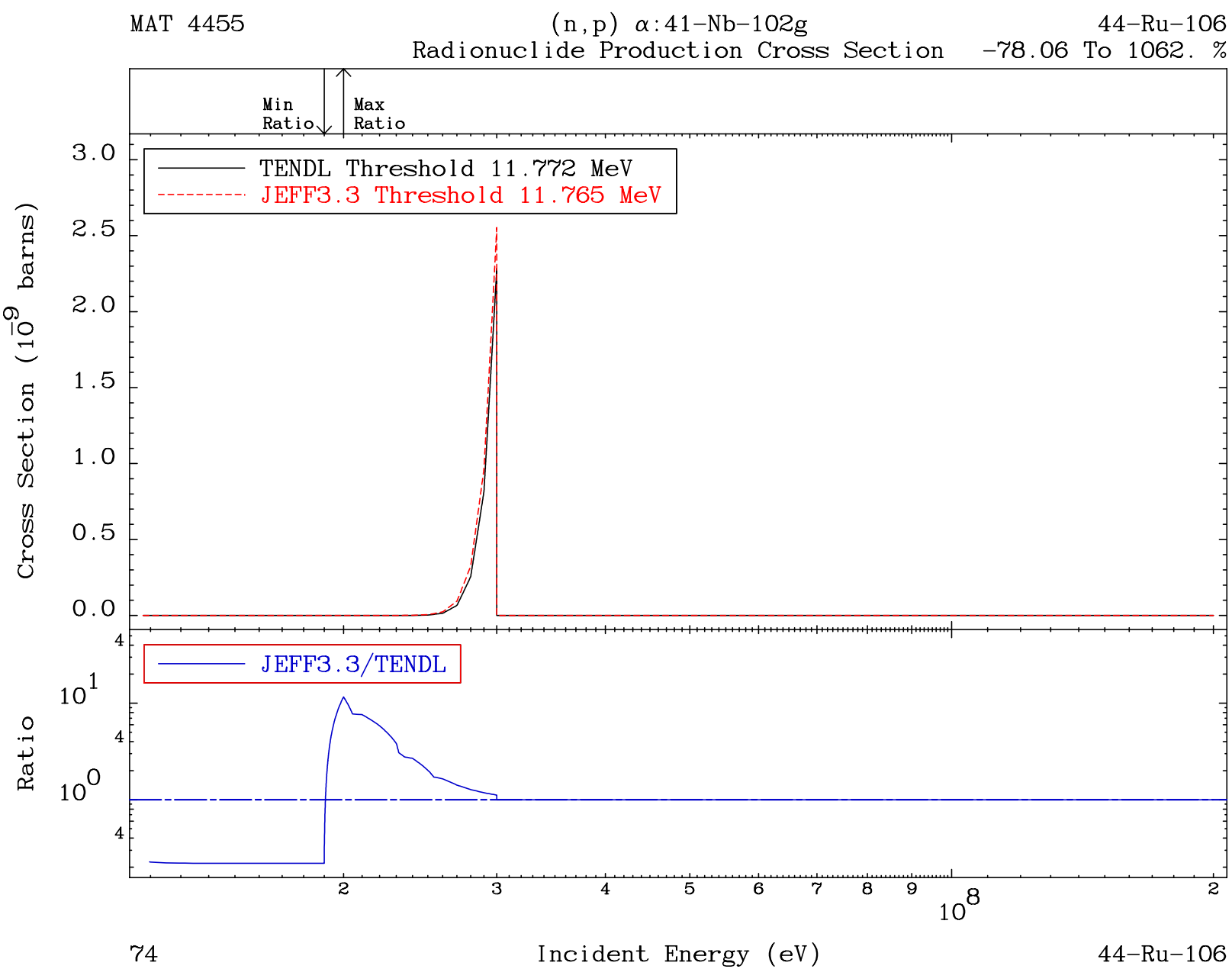

MAT 4455
Total kinematic kerma (high limit)
Cross Section
44-Ru-106
-99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
44-Ru-106

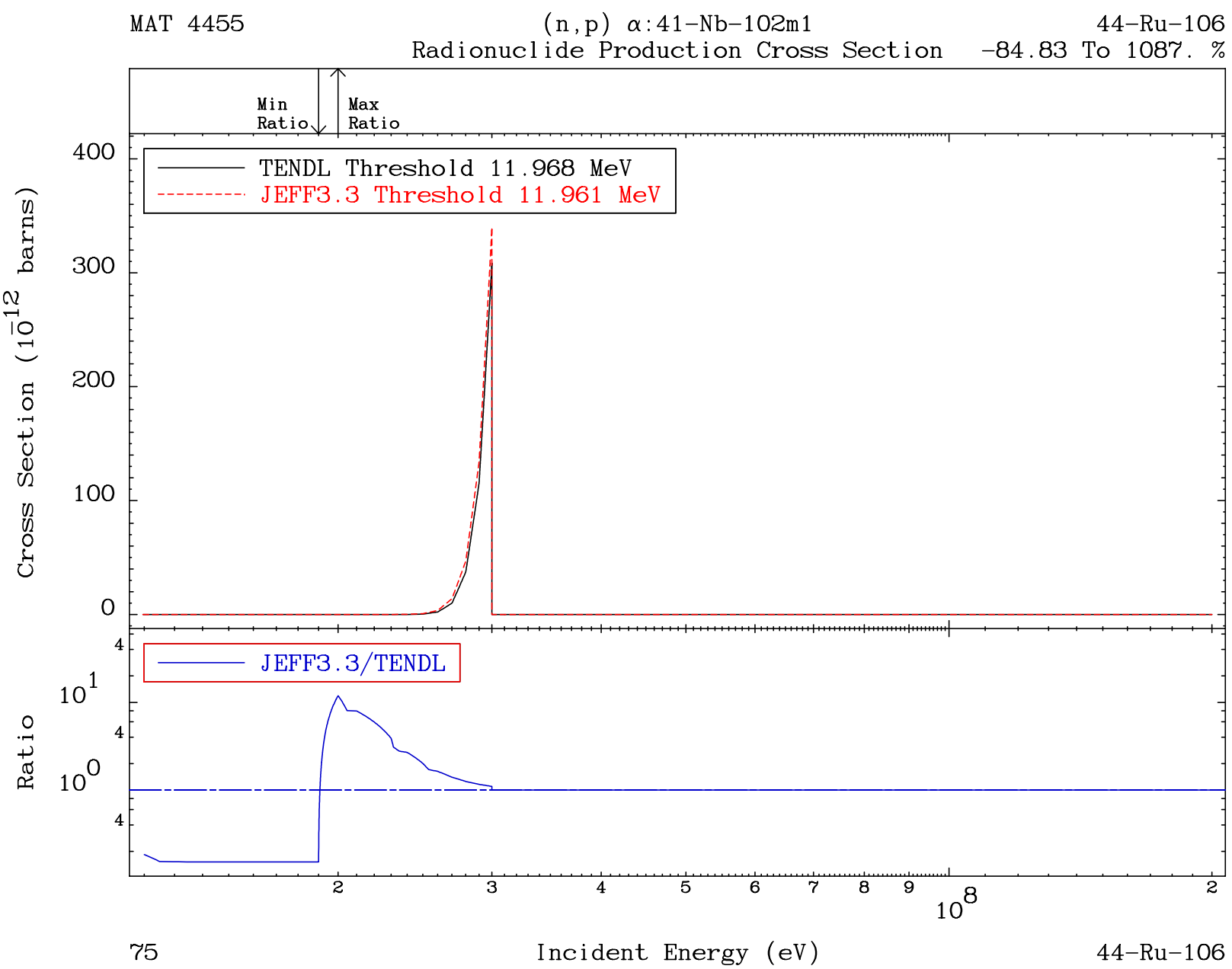

MAT 4455
Dpa total (eV-barns)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
44-Ru-106


MAT 4455
Dpa elastic (mt2)
Cross Section
44-Ru-106
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 611.65 eV
JEFF3.3 Threshold 625.00 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
44-Ru-106


MAT 4455
Dpa inelastic (mt51-91)
Cross Section
44-Ru-106
-0.031 To 0.148 %
Min Ratio
Max Ratio
TENDL Threshold 272.64 keV
JEFF3.3 Threshold 272.64 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
44-Ru-106


MAT 4455
Dpa disappearance (mt102 -120)
Cross Section
44-Ru-106
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
44-Ru-106


MAT 4455
(n,p) α:41-Nb-102g
44-Ru-106
Radionuclide Production Cross Section -78.06 To 1062. %
Min Ratio
Max Ratio
TENDL Threshold 11.772 MeV
JEFF3.3 Threshold 11.765 MeV
Cross Section (10^{-9} barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^{1}
10^{0}
4
4
4
2
3
4
5
6
7
8
9
10^{8}
2
74
Incident Energy (eV)
44-Ru-106


MAT 4455
(n,p) α:41-Nb-102m1
44-Ru-106
Radionuclide Production Cross Section -84.83 To 1087. %
Min Ratio
Max Ratio
TENDL Threshold 11.968 MeV
JEFF3.3 Threshold 11.961 MeV
Cross Section (10^{-12} barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^{1}
10^{0}
4
2
3
4
5
6
7
8
9
10^{8}
2
75
Incident Energy (eV)
44-Ru-106