Program Complot
(Version 2021-1)
by
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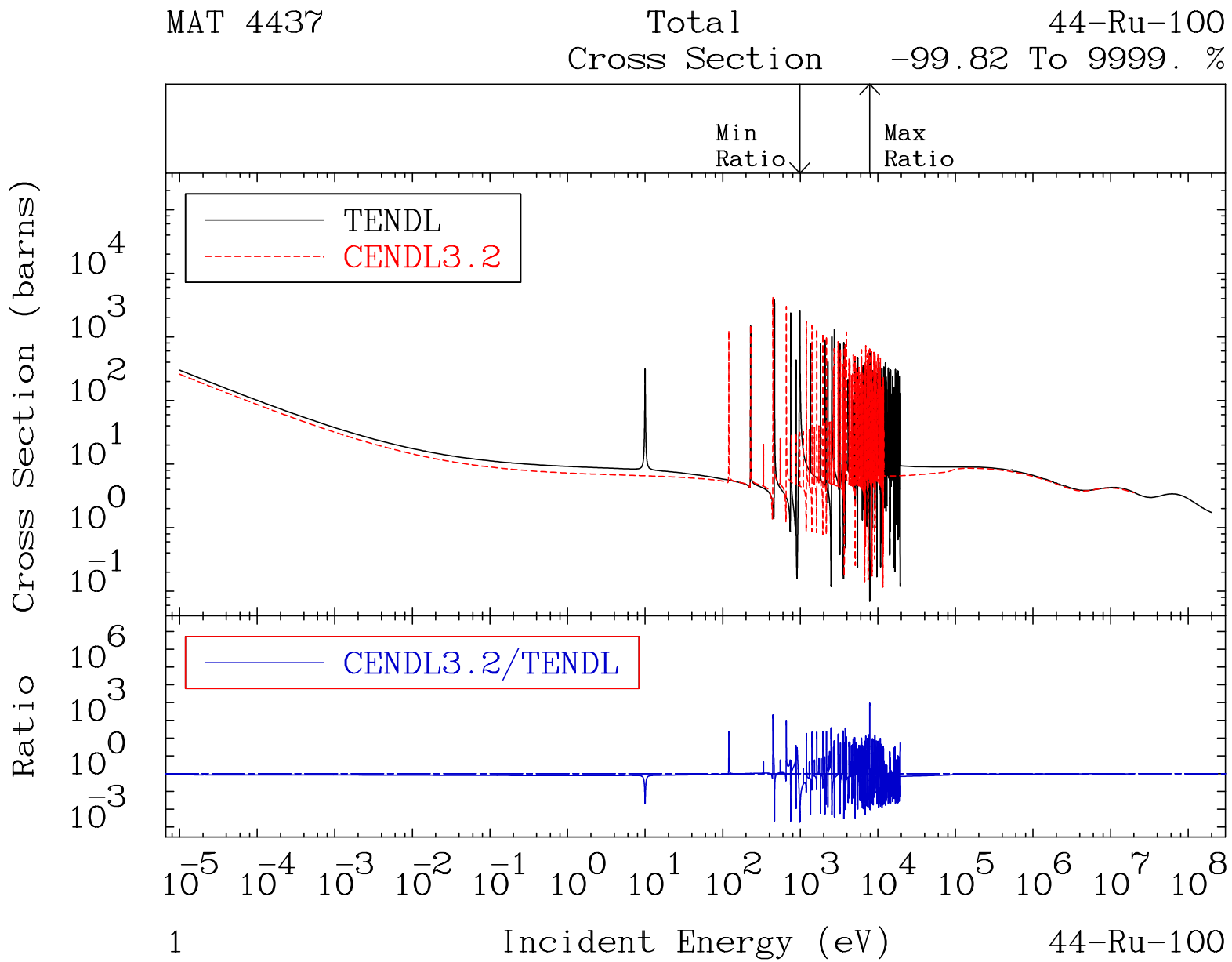
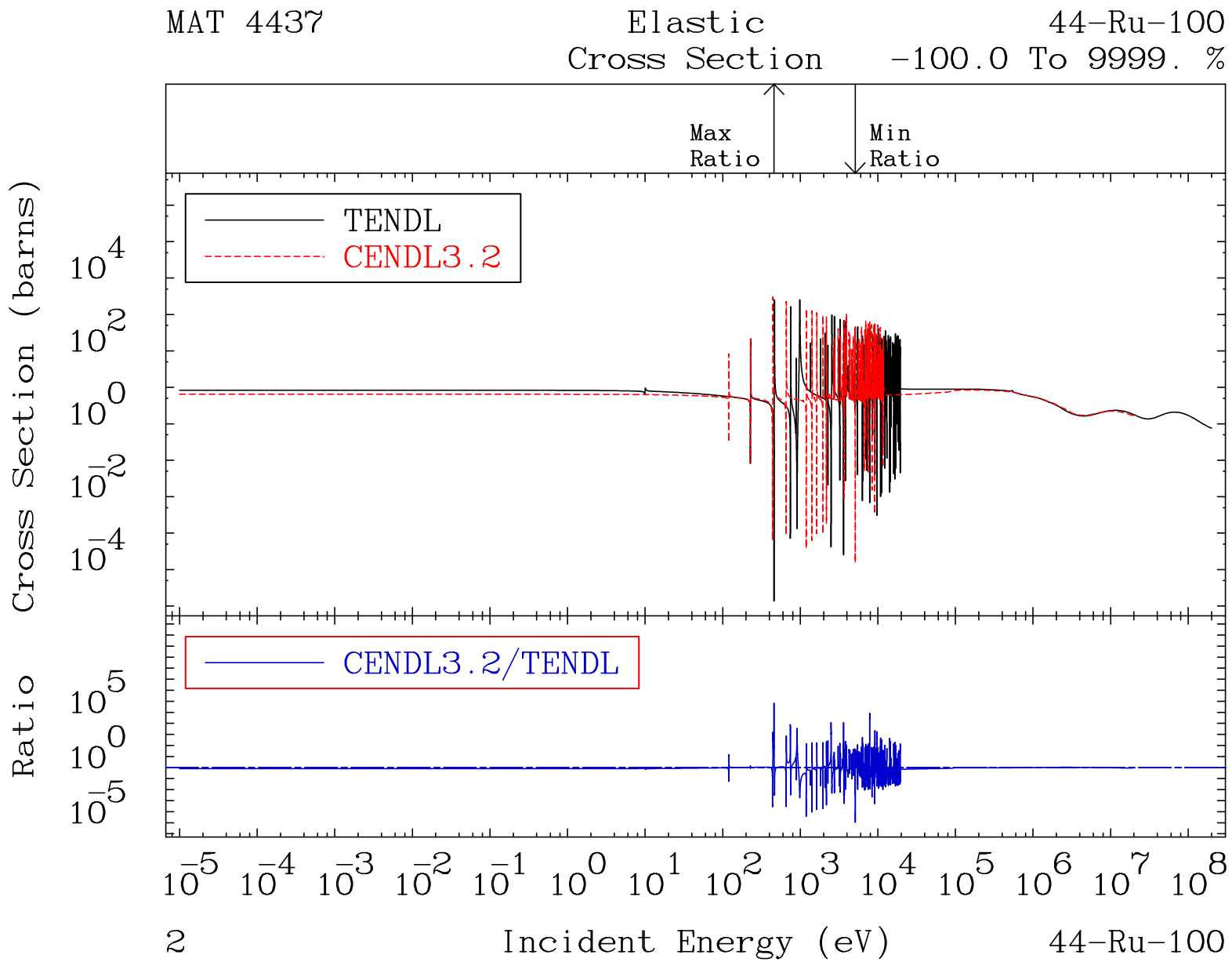
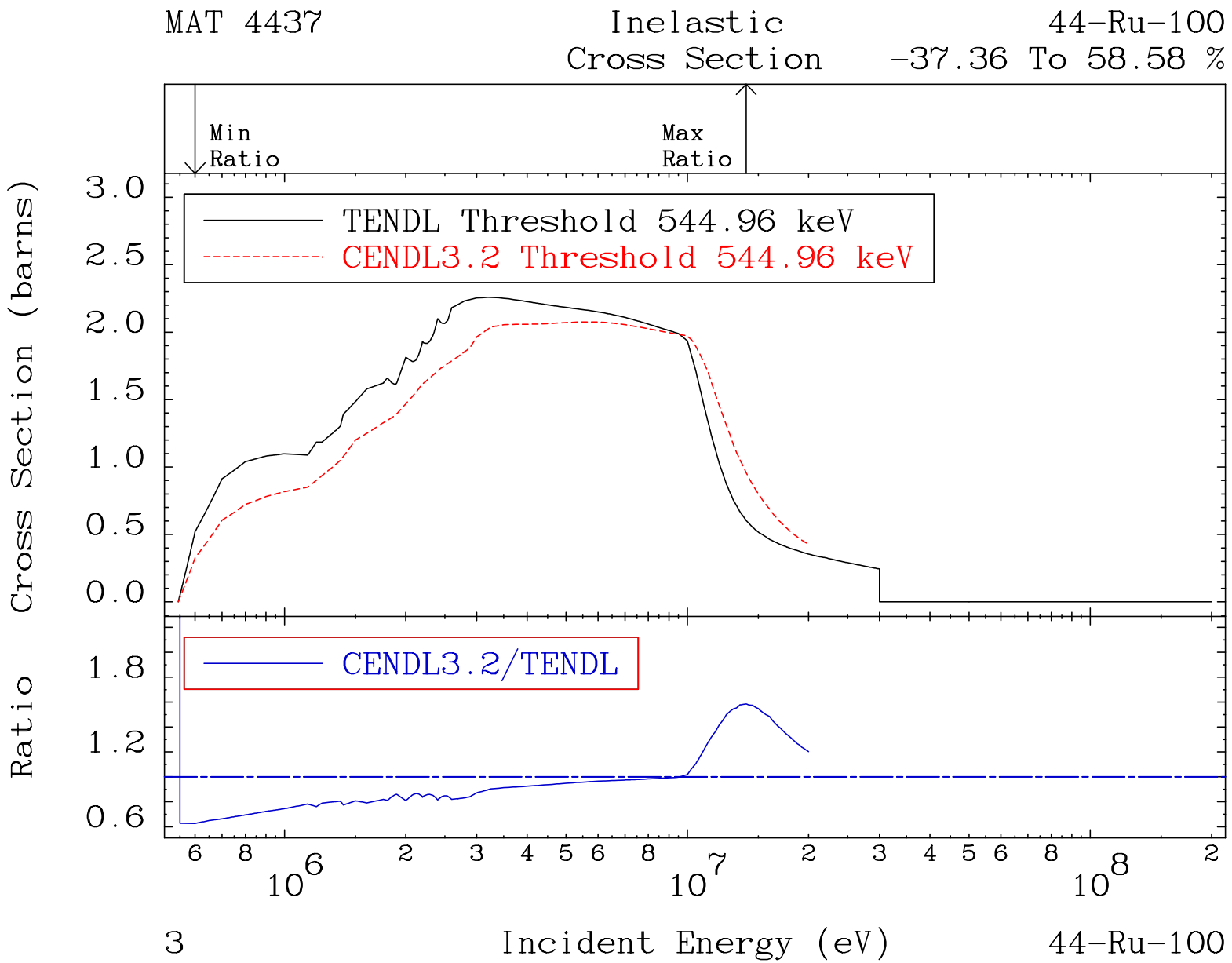
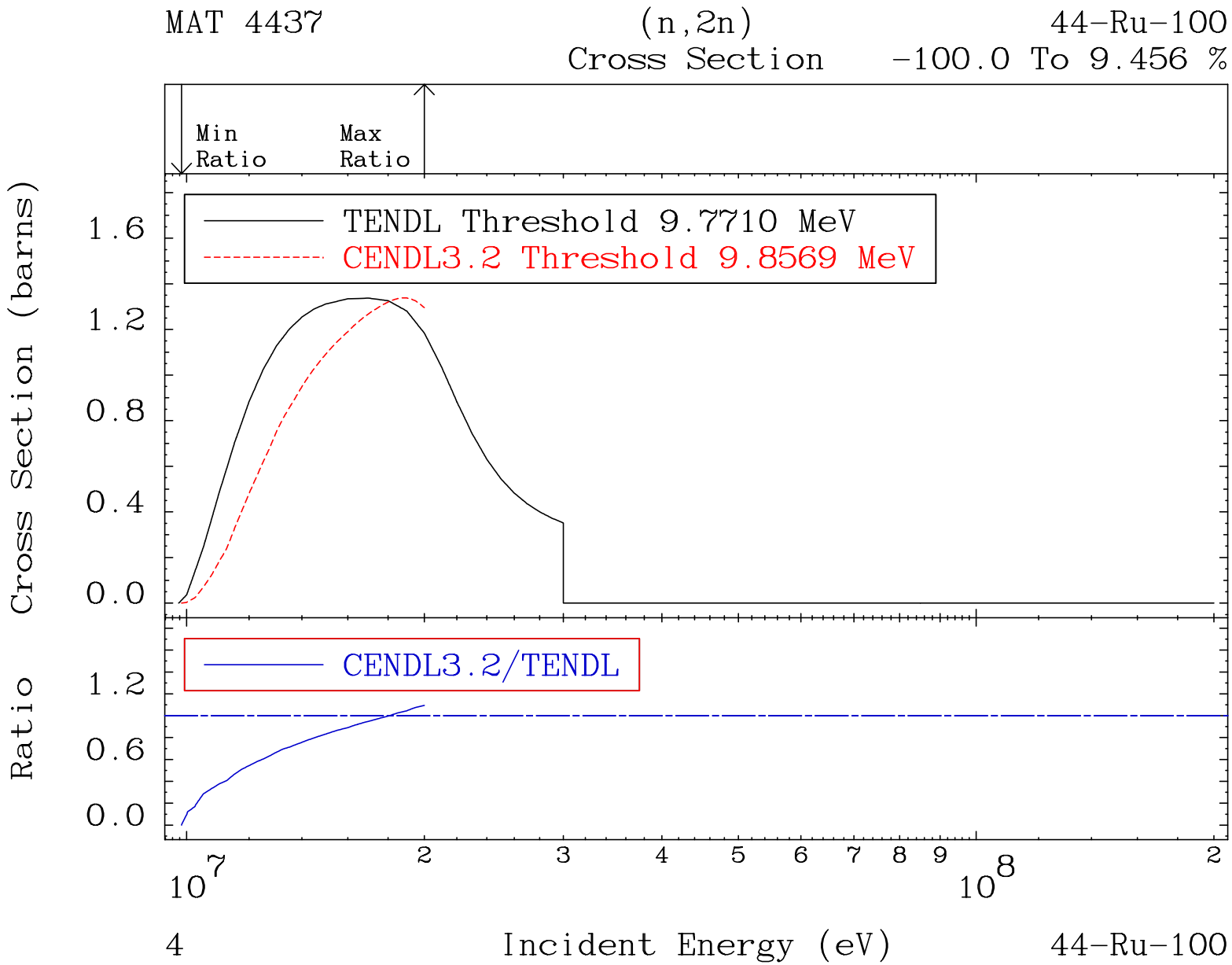
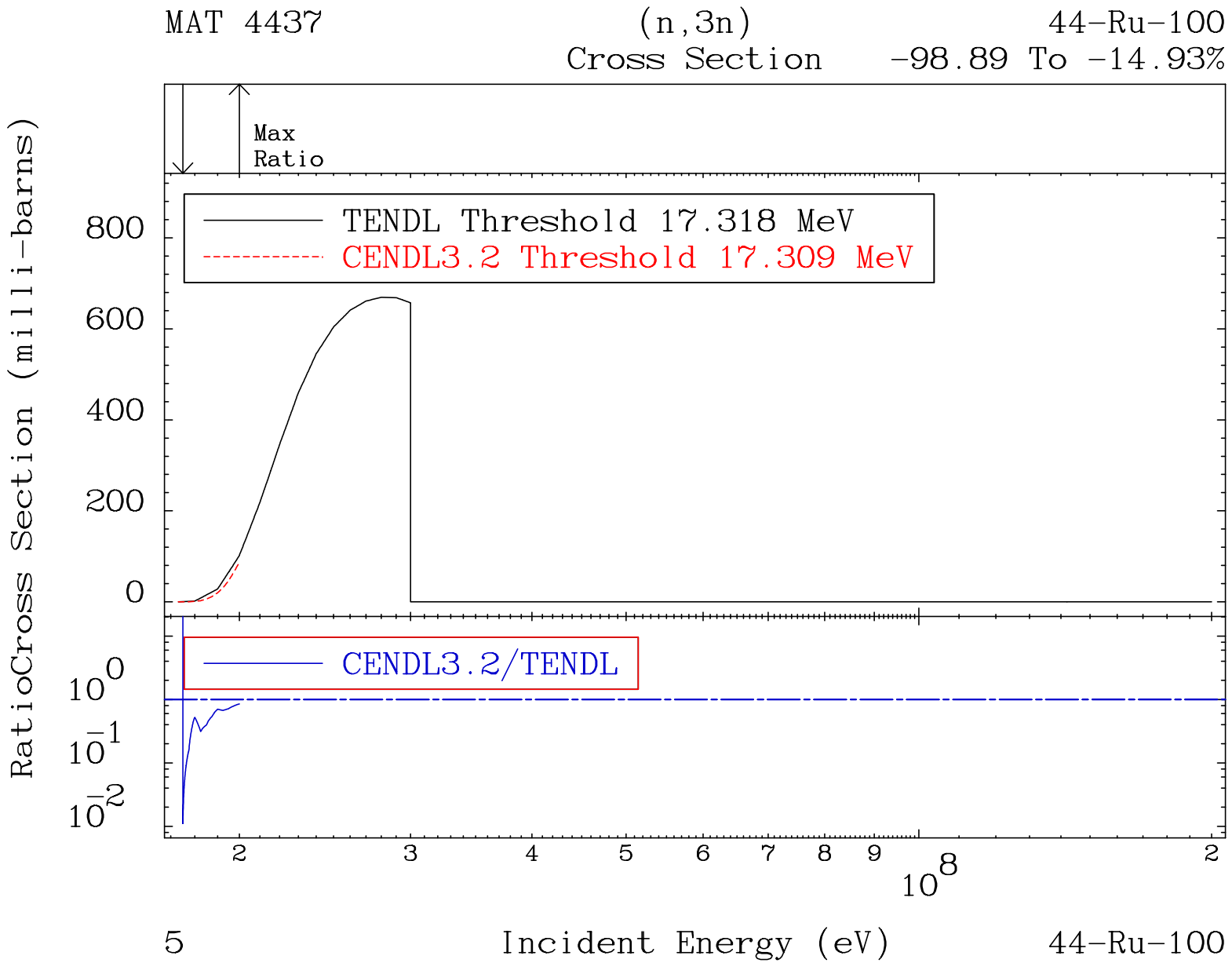
Press Mouse Button to Start

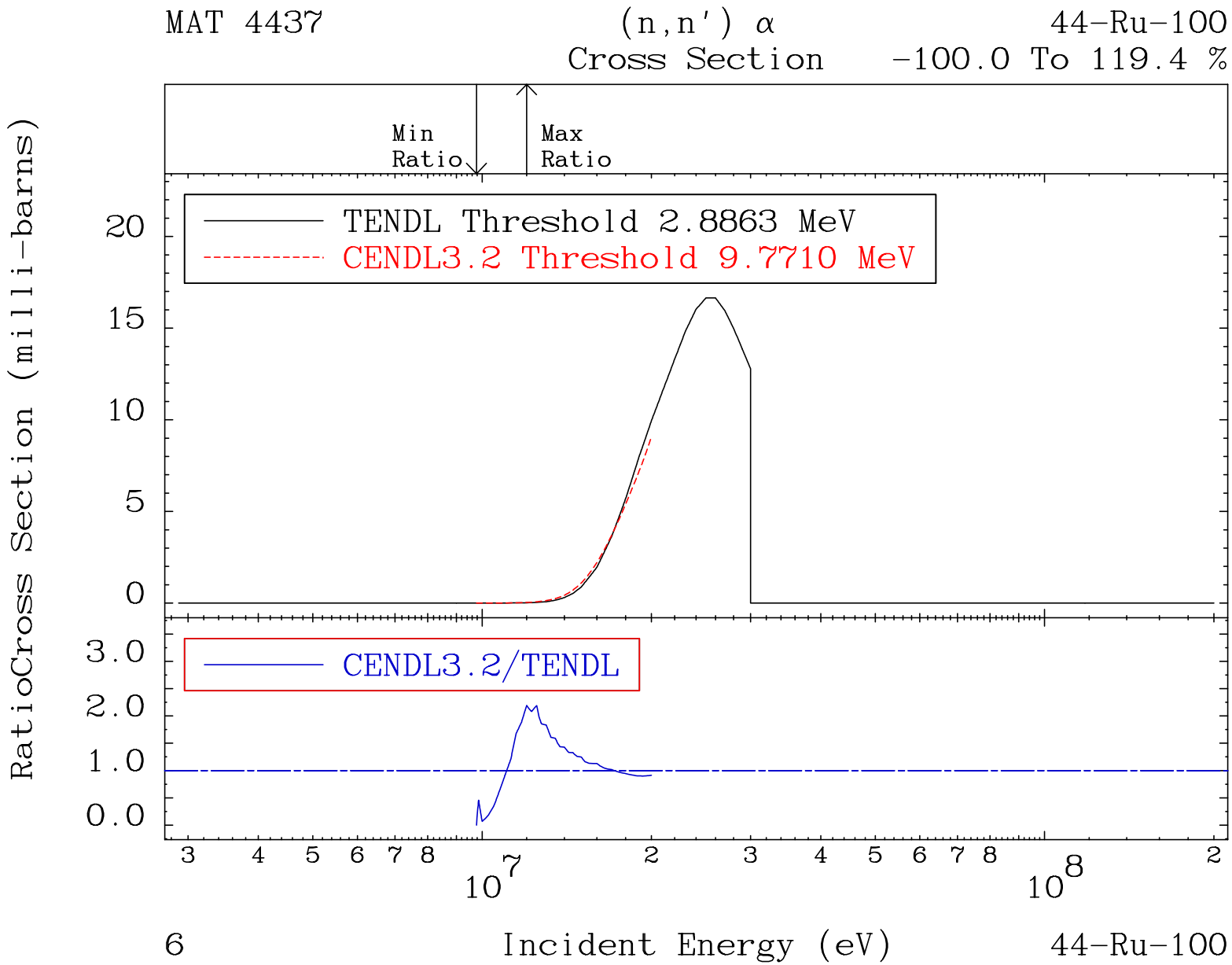

MAT 4437
Total
Cross Section
44-Ru-100
-99.82 To 9999. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
44-Ru-100

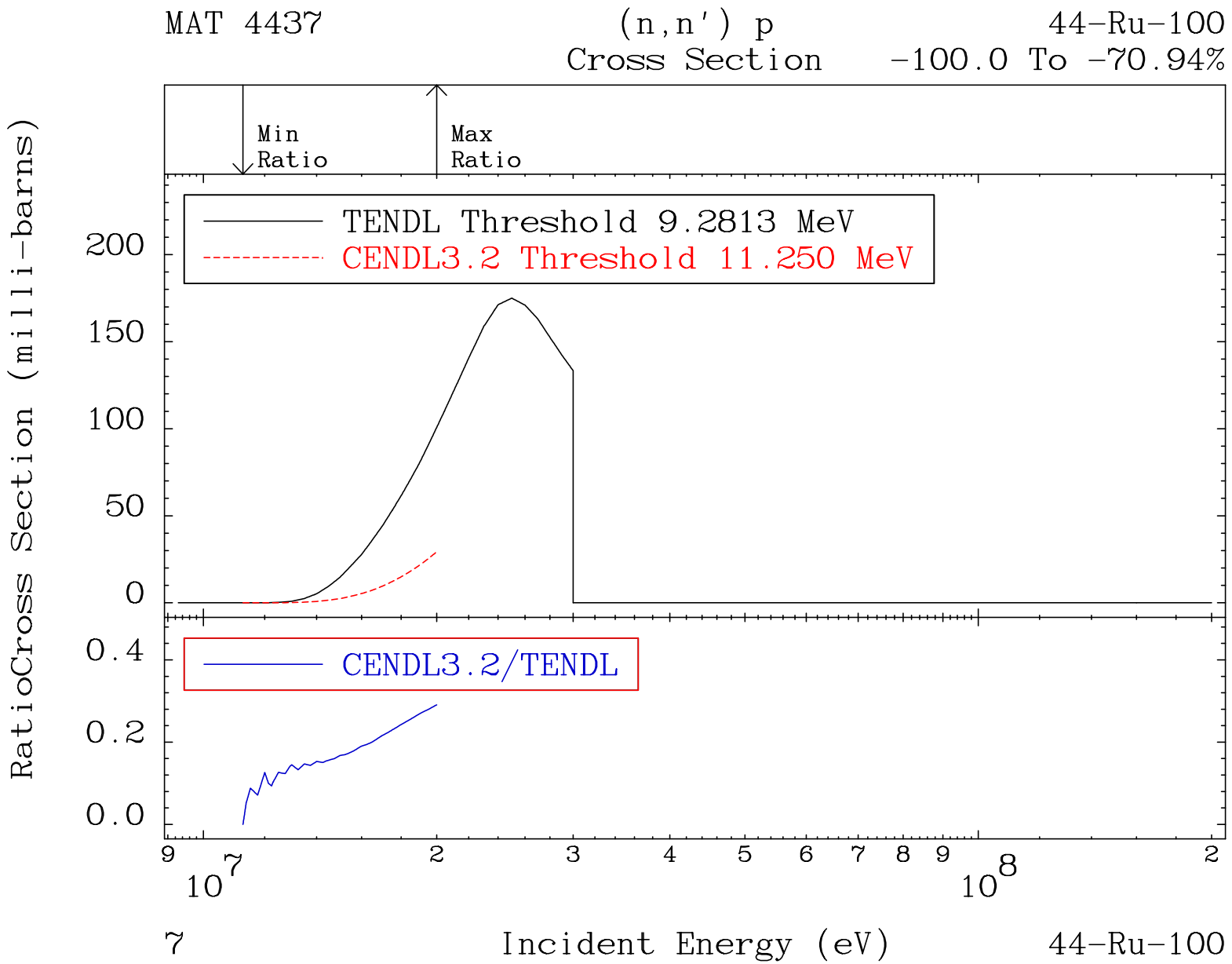

MAT 4437
Elastic
Cross Section
44-Ru-100
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
2
44-Ru-100

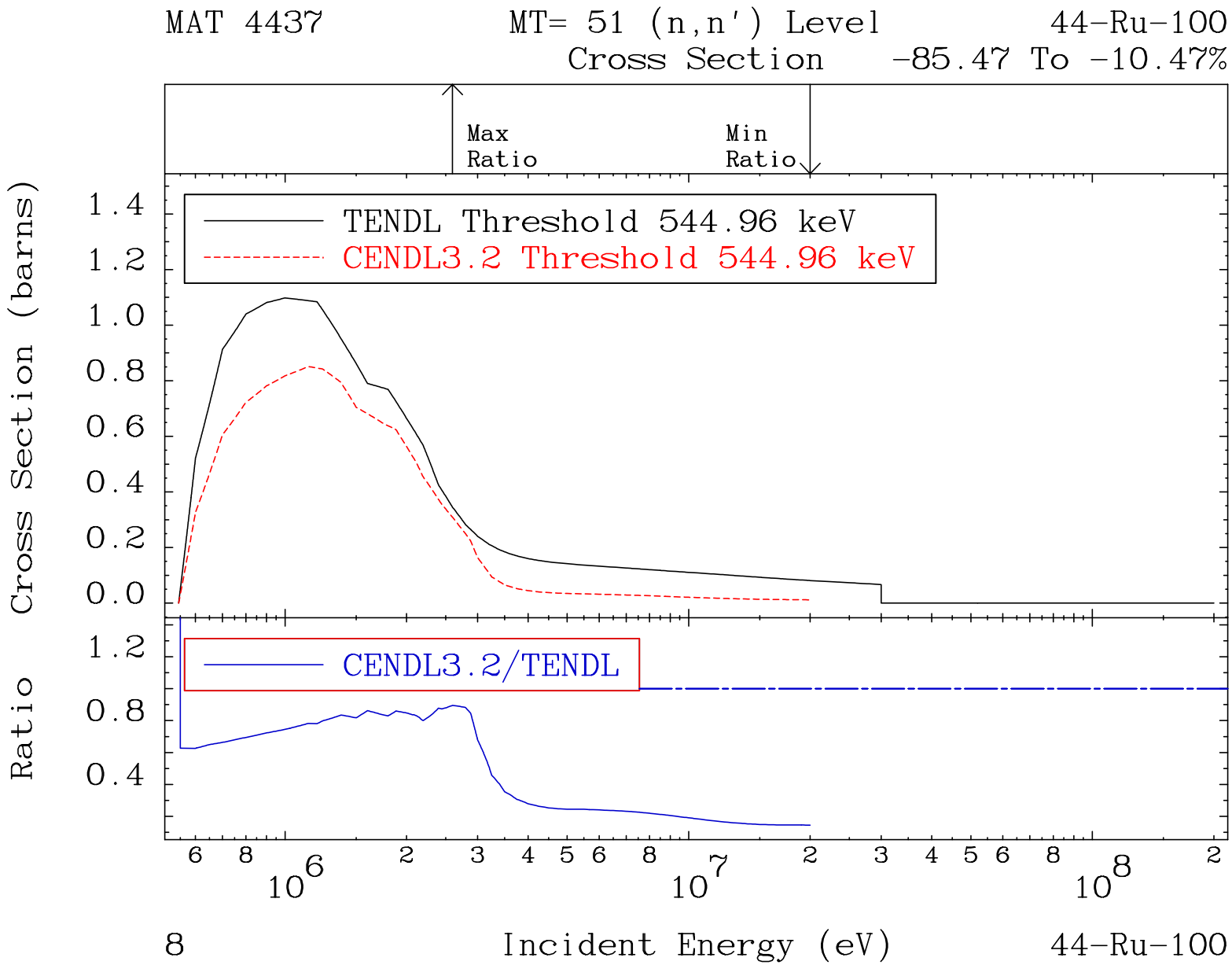

MAT 4437
Inelastic
Cross Section
44-Ru-100
-37.36 To 58.58 %
Min
Ratio
Max
Ratio
TENDL Threshold 544.96 keV
CENDL3.2 Threshold 544.96 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
44-Ru-100

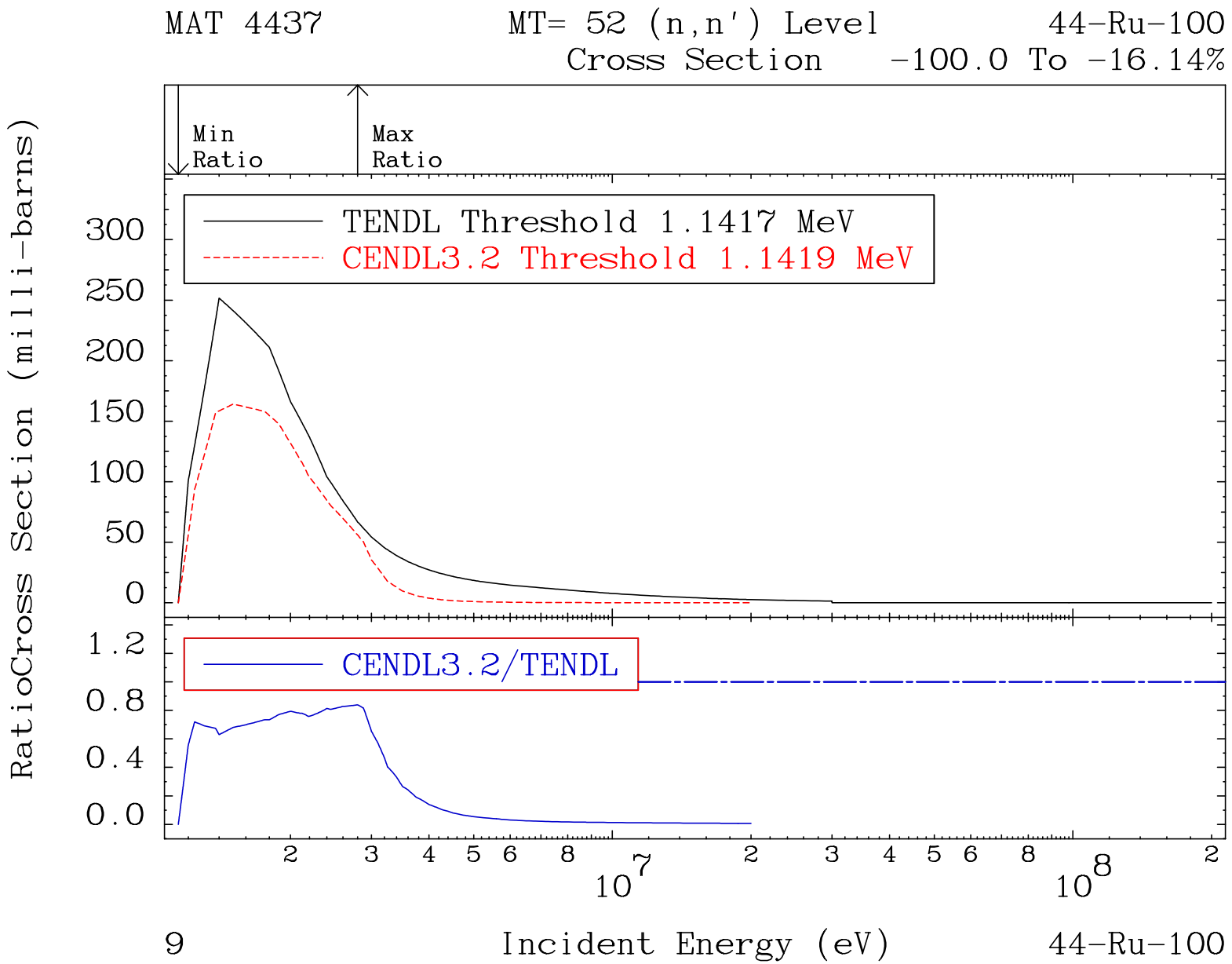

MAT 4437
(n,2n)
Cross Section
44-Ru-100
-100.0 To 9.456 %
Min Ratio
Max Ratio
TENDL Threshold 9.7710 MeV
CENDL3.2 Threshold 9.8569 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
44-Ru-100

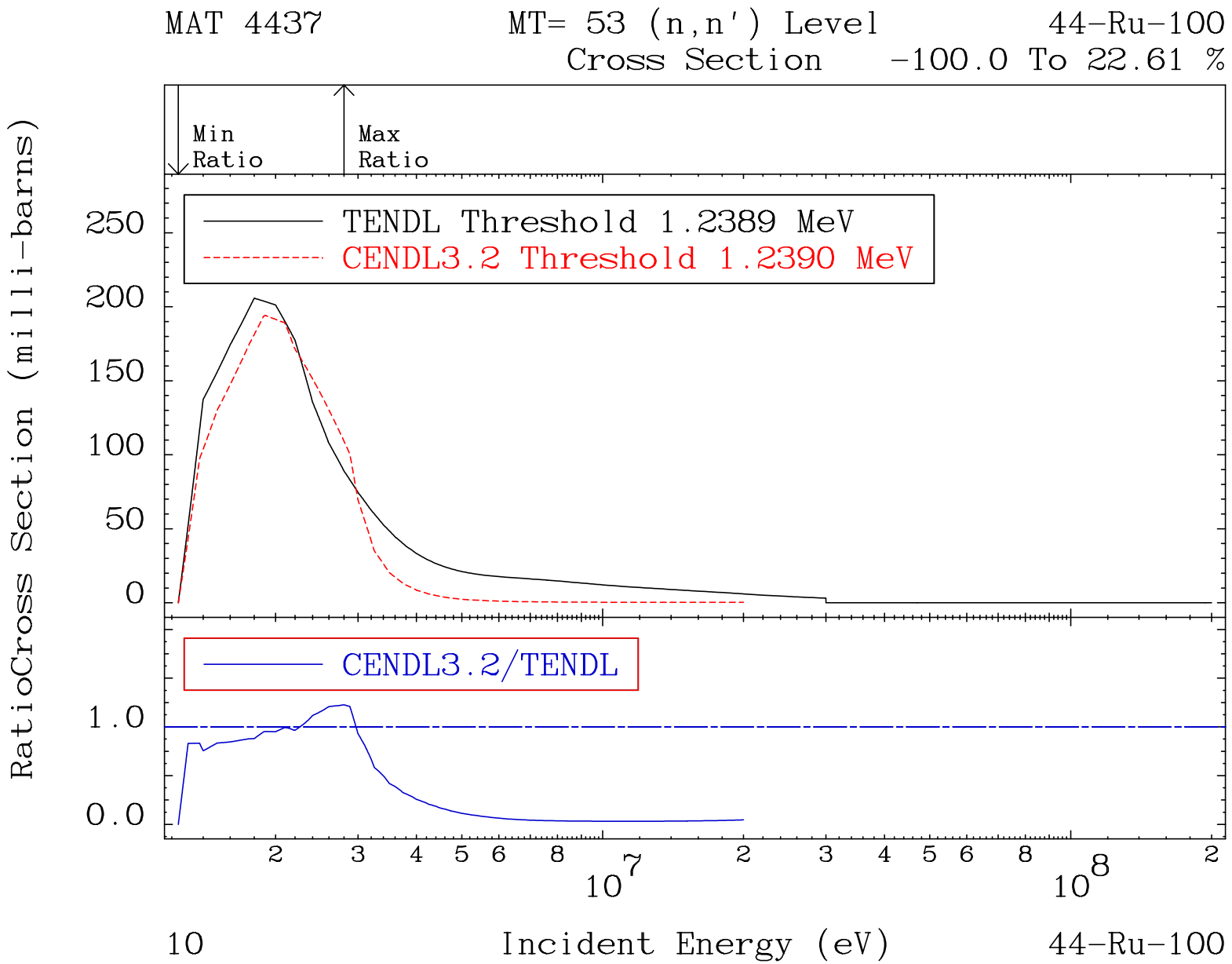

MAT 4437
(n,3n)
Cross Section
44-Ru-100
-98.89 To -14.93%
Max
Ratio
TENDL Threshold 17.318 MeV
CENDL3.2 Threshold 17.309 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
10^{0}
10^{-1}
10^{-2}
2
3
4
5
6
7
8
9
10^{8}
2
5
Incident Energy (eV)
44-Ru-100

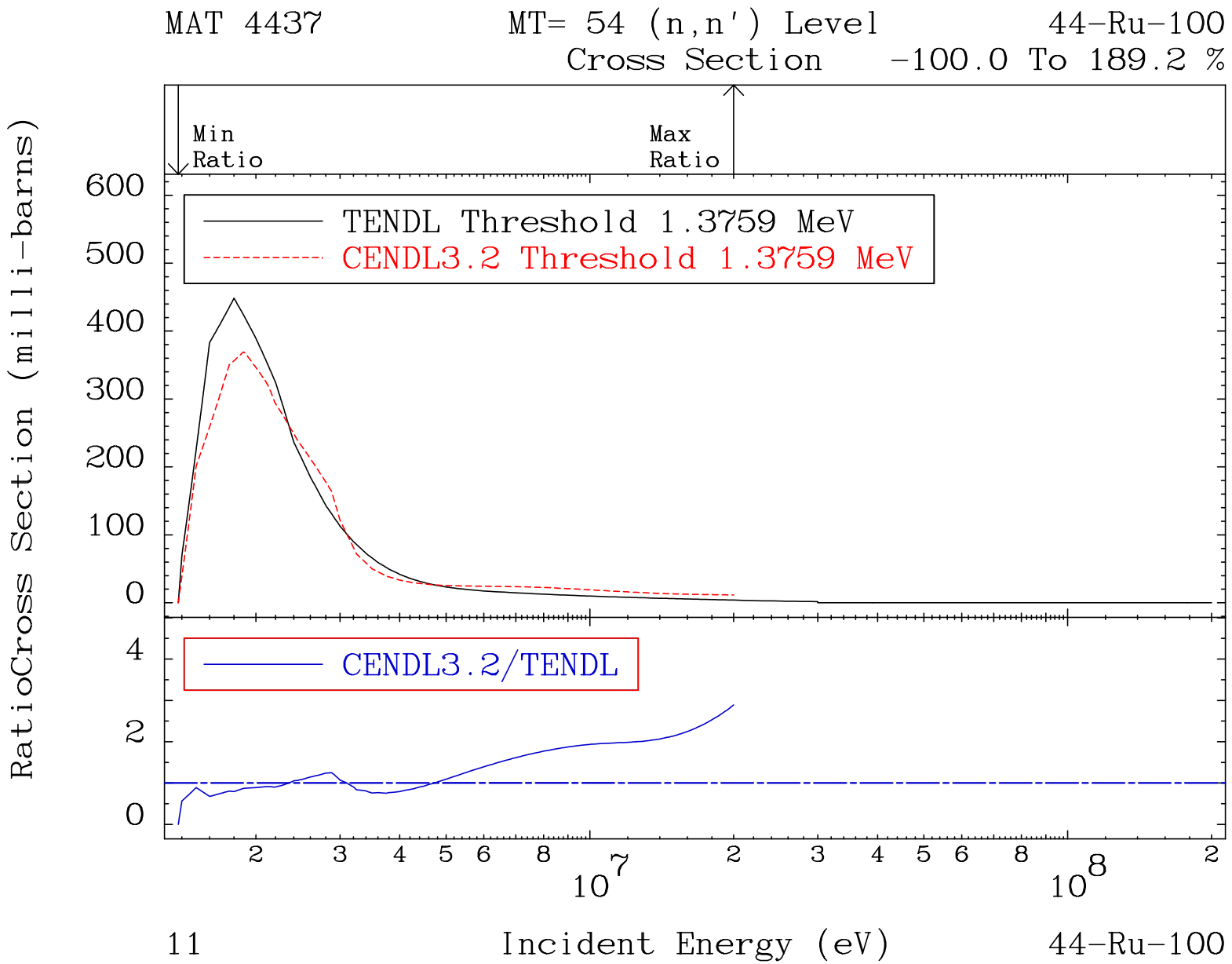

MAT 4437
(n,n') α
Cross Section
44-Ru-100
-100.0 To 119.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.8863 MeV
CENDL3.2 Threshold 9.7710 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
44-Ru-100

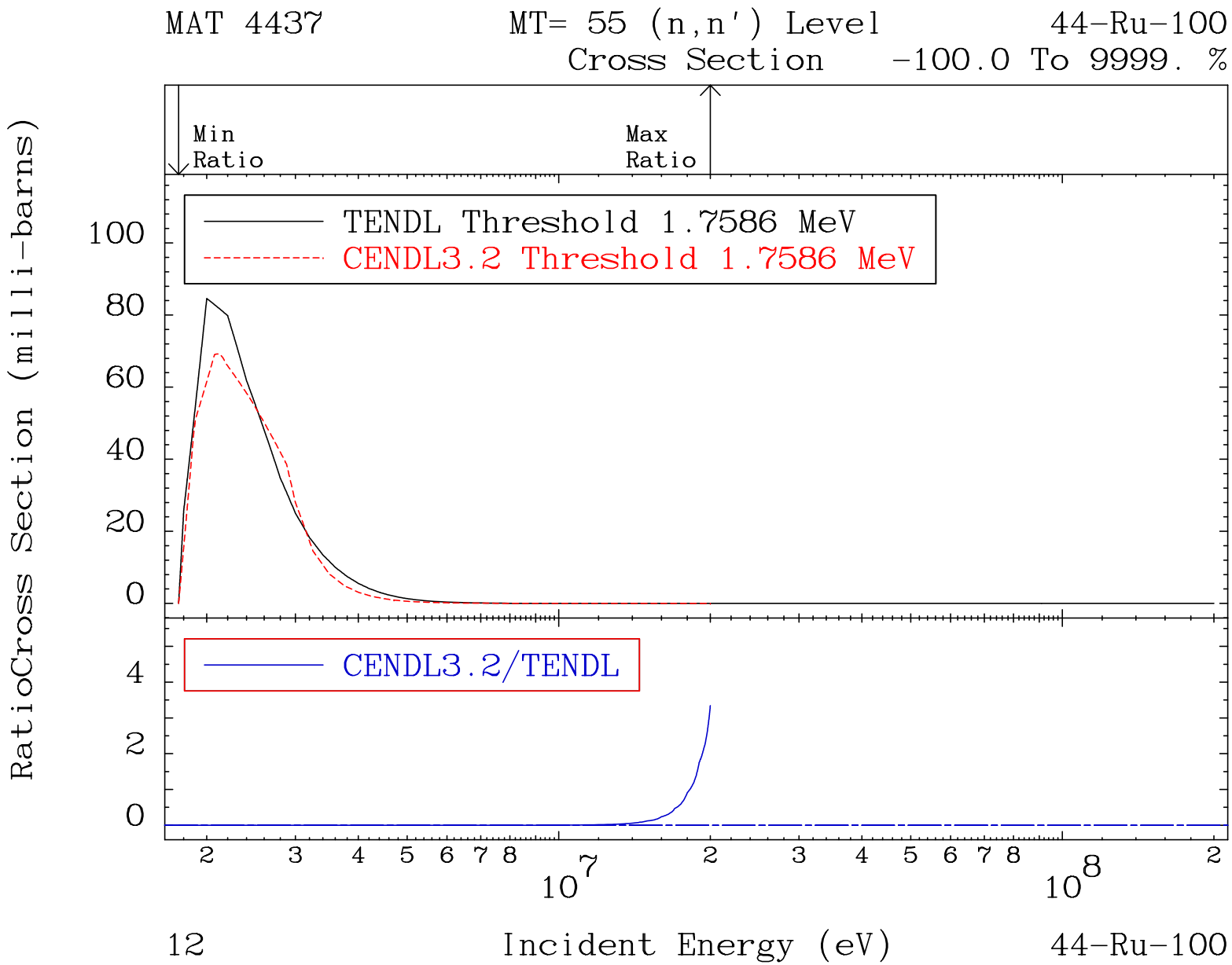

MAT 4437
(n,n') p
Cross Section
44-Ru-100
-100.0 To -70.94%
Min Ratio
Max Ratio
TENDL Threshold 9.2813 MeV
CENDL3.2 Threshold 11.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
0.4
0.2
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
44-Ru-100

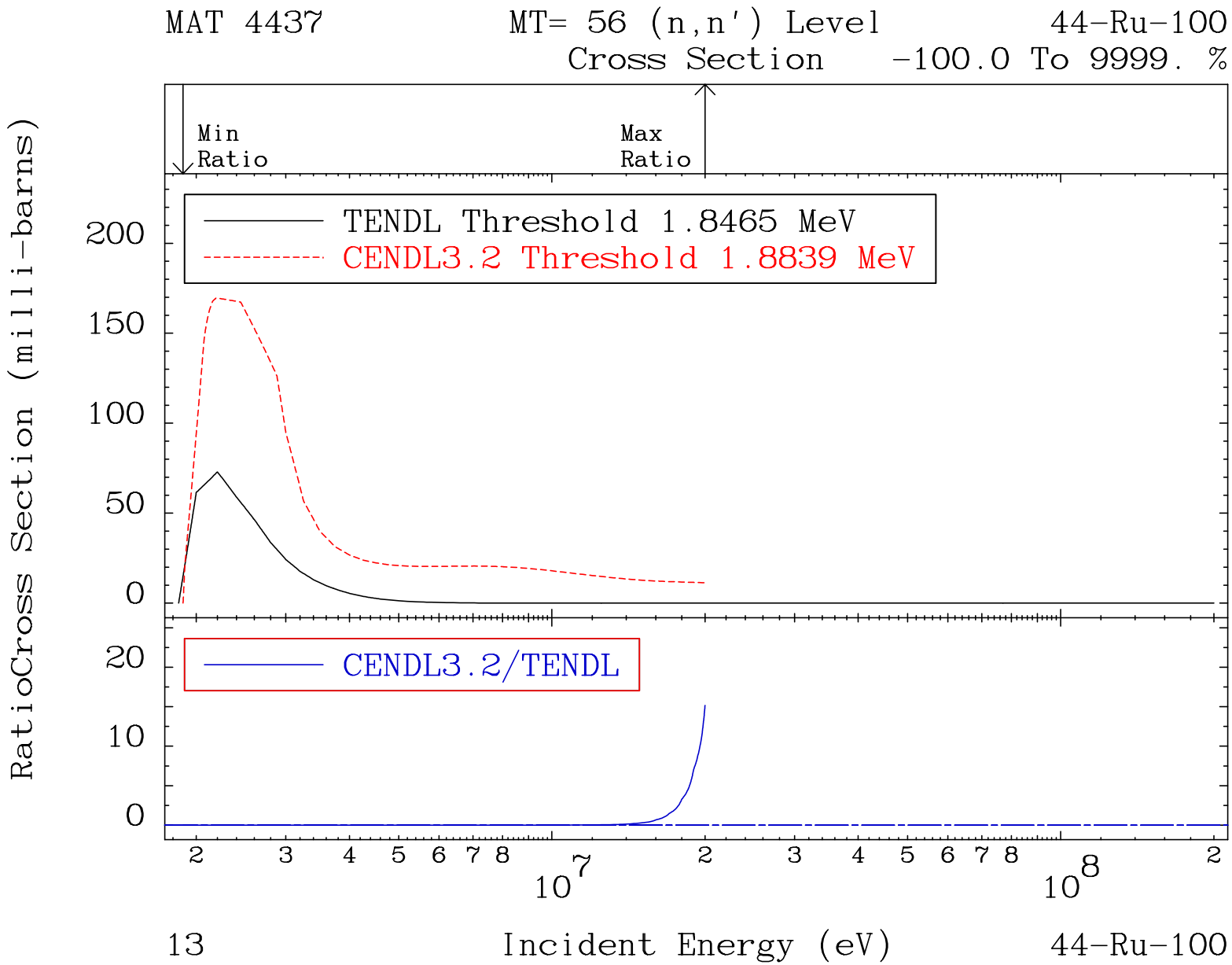

MAT 4437
MT= 51 (n,n') Level
Cross Section
44-Ru-100
-85.47 To -10.47%
Max Ratio
Min Ratio
TENDL Threshold 544.96 keV
CENDL3.2 Threshold 544.96 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44-Ru-100
8

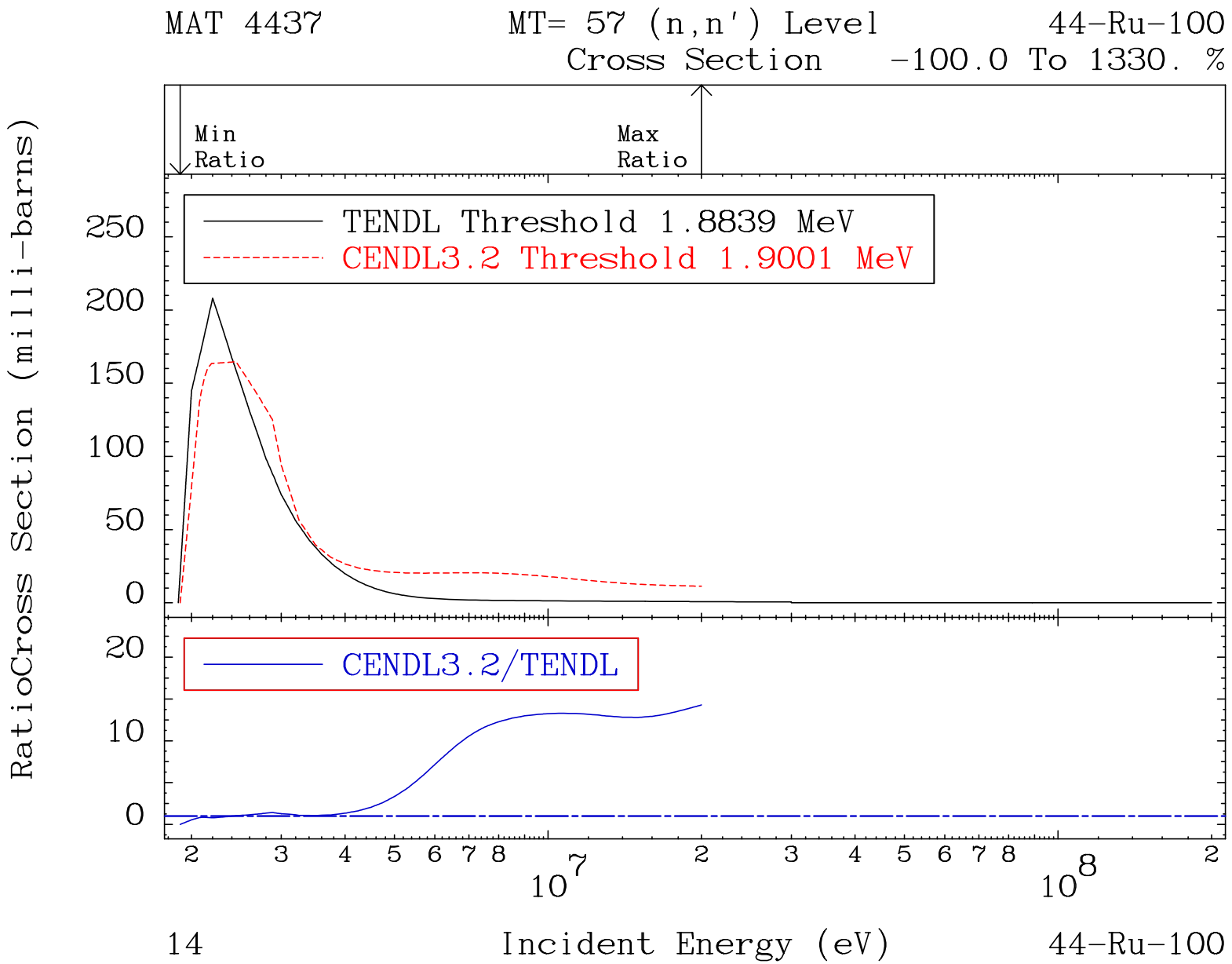

MAT 4437
MT= 52 (n,n') Level
44-Ru-100
Cross Section
-100.0 To -16.14%
Min Ratio
Max Ratio
TENDL Threshold 1.1417 MeV
CENDL3.2 Threshold 1.1419 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.8
0.4
0.0
2
3
4
5
6
8
10^7
10^8
9
Incident Energy (eV)
44-Ru-100

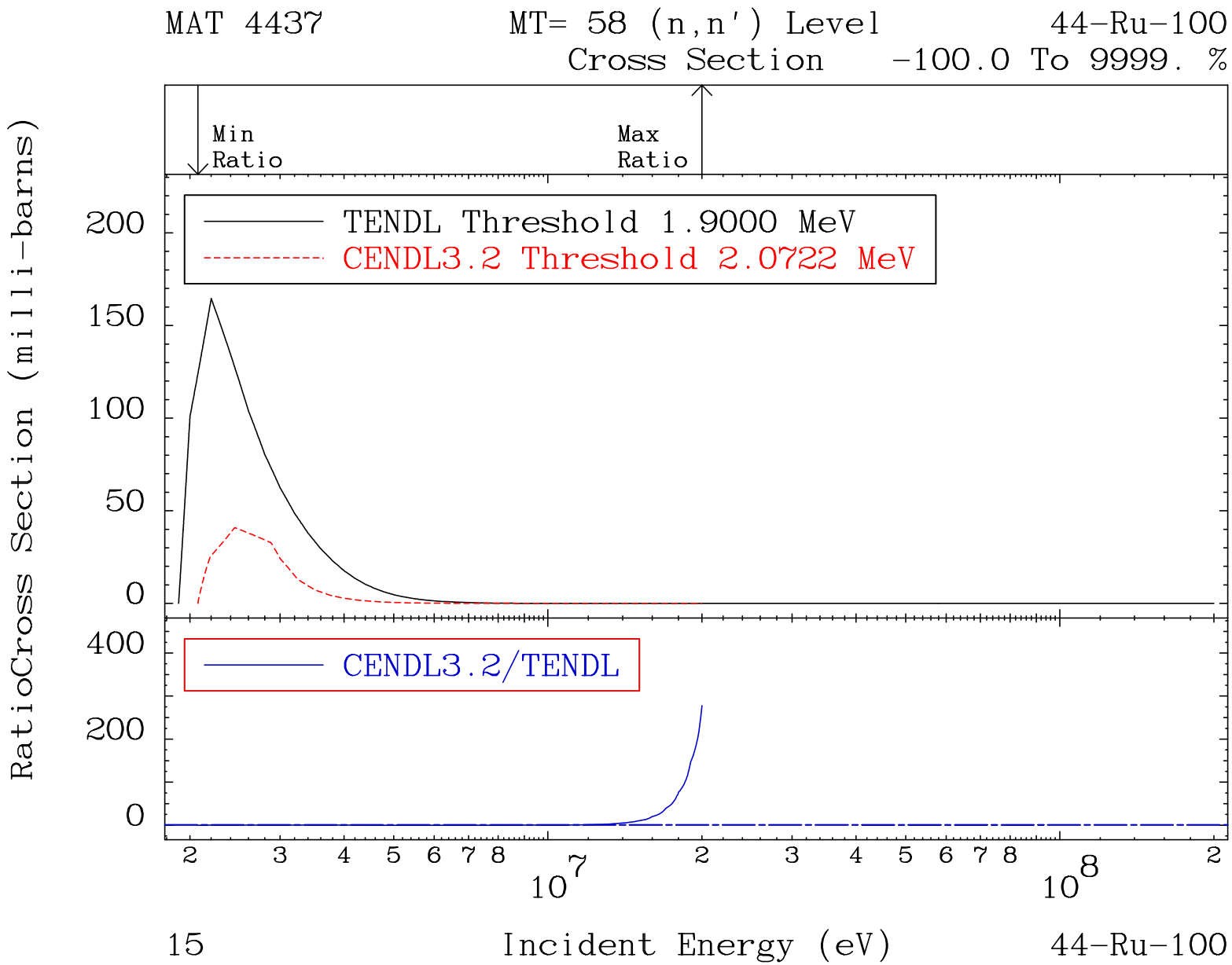

MAT 4437
MT= 53 (n,n') Level
44-Ru-100
Cross Section
-100.0 To 22.61 %
Min Ratio
Max Ratio
TENDL Threshold 1.2389 MeV
CENDL3.2 Threshold 1.2390 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
44-Ru-100

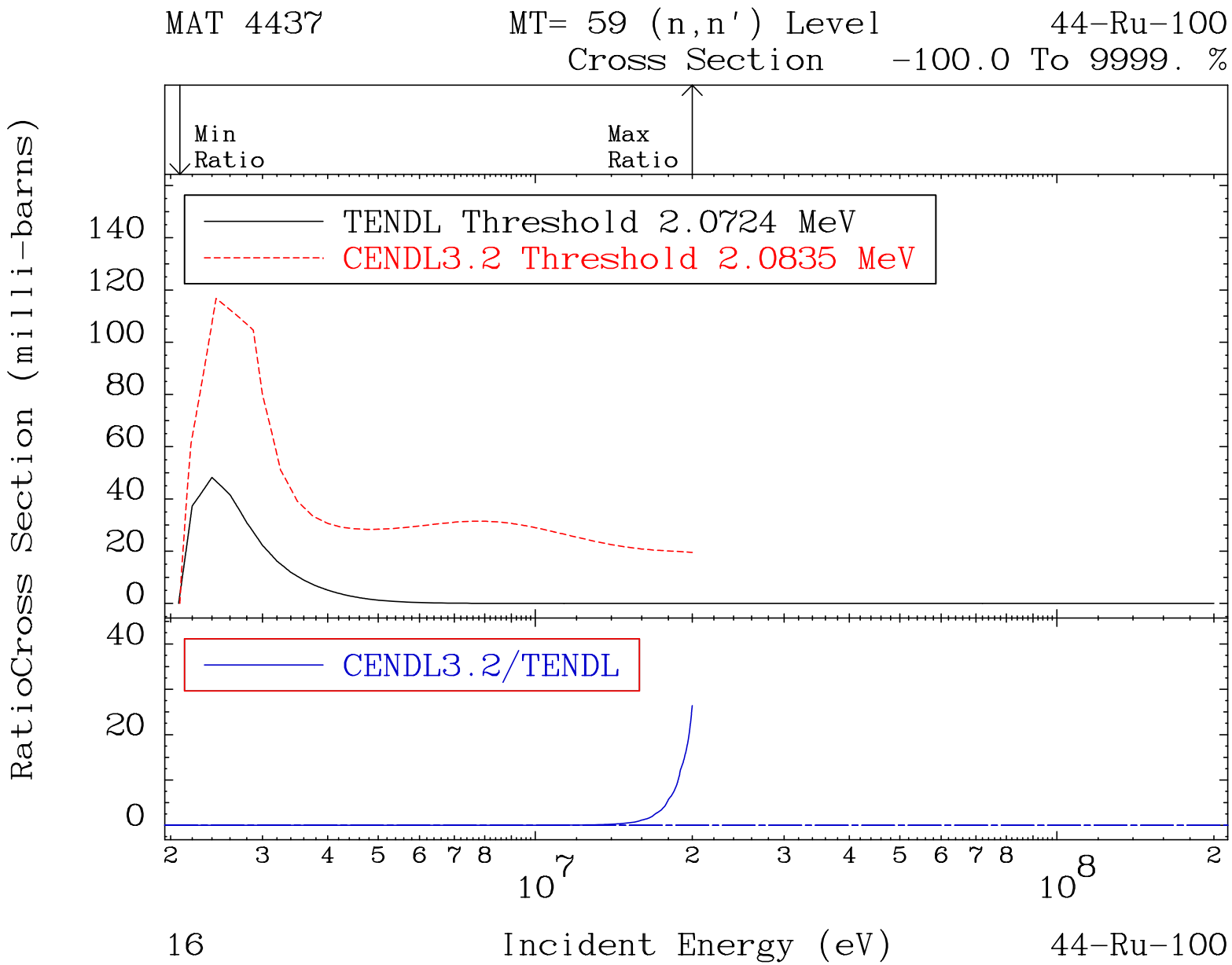

MAT 4437
MT= 54 (n,n') Level
44-Ru-100
Cross Section
-100.0 To 189.2 %
Min Ratio
Max Ratio
TENDL Threshold 1.3759 MeV
CENDL3.2 Threshold 1.3759 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
4
2
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
44-Ru-100

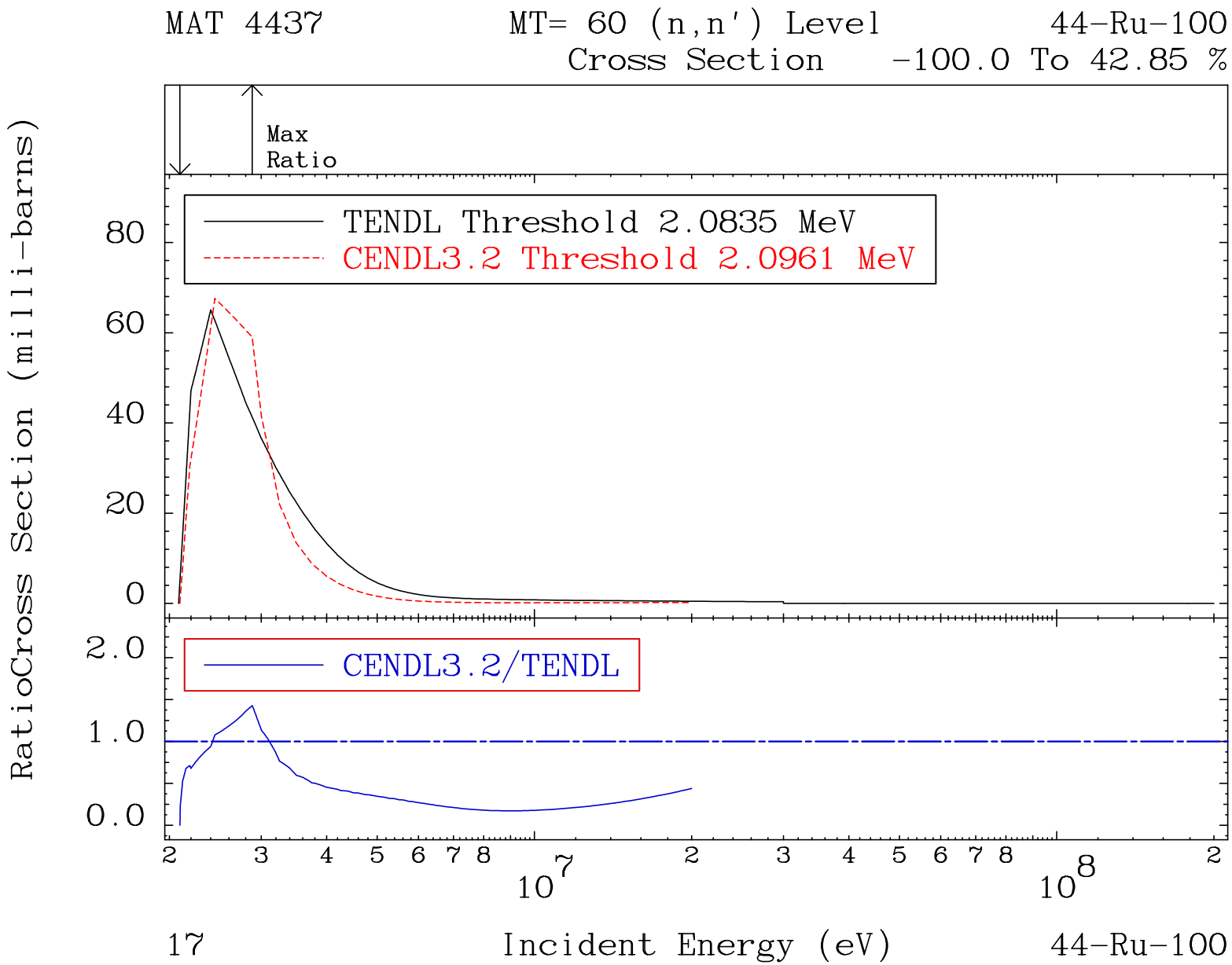

MAT 4437
MT= 55 (n,n') Level
44-Ru-100
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7586 MeV
CENDL3.2 Threshold 1.7586 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
44-Ru-100

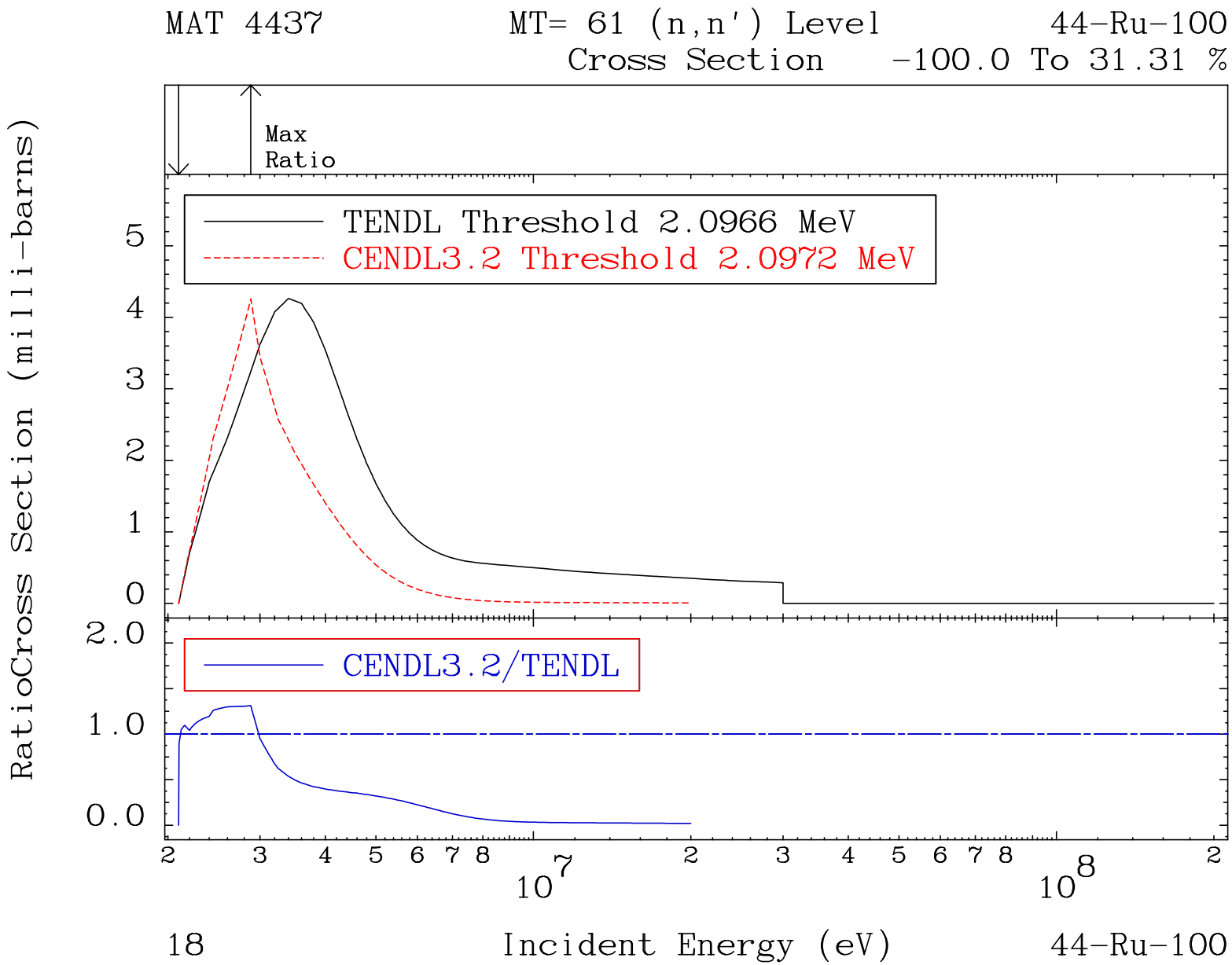

MAT 4437
MT= 56 (n,n') Level
44-Ru-100
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8465 MeV
CENDL3.2 Threshold 1.8839 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
20
10
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
44-Ru-100

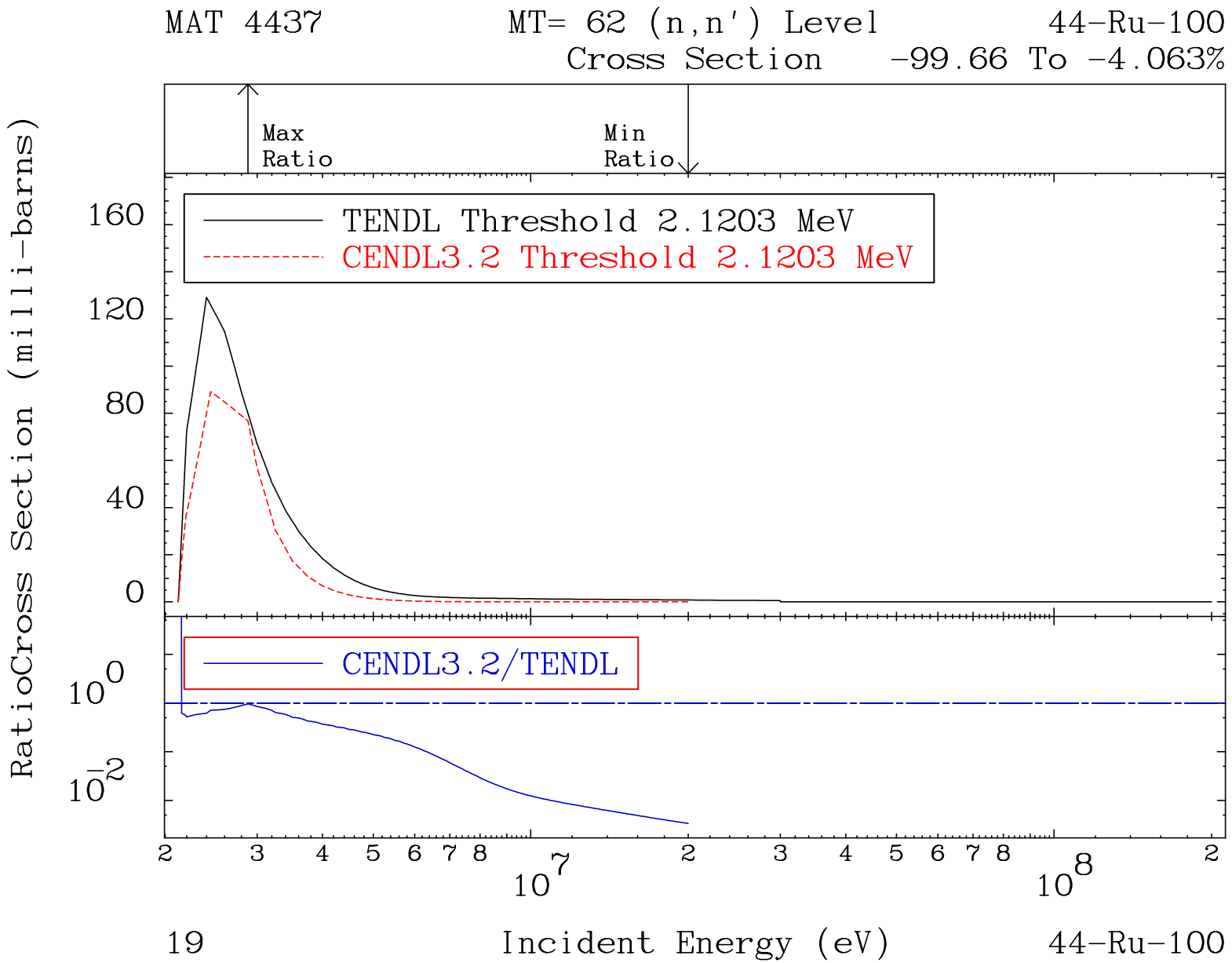

MAT 4437
MT= 57 (n,n') Level
44-Ru-100
Cross Section -100.0 To 1330. %
Min Ratio
Max Ratio
TENDL Threshold 1.8839 MeV
CENDL3.2 Threshold 1.9001 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
20
10
0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
44-Ru-100

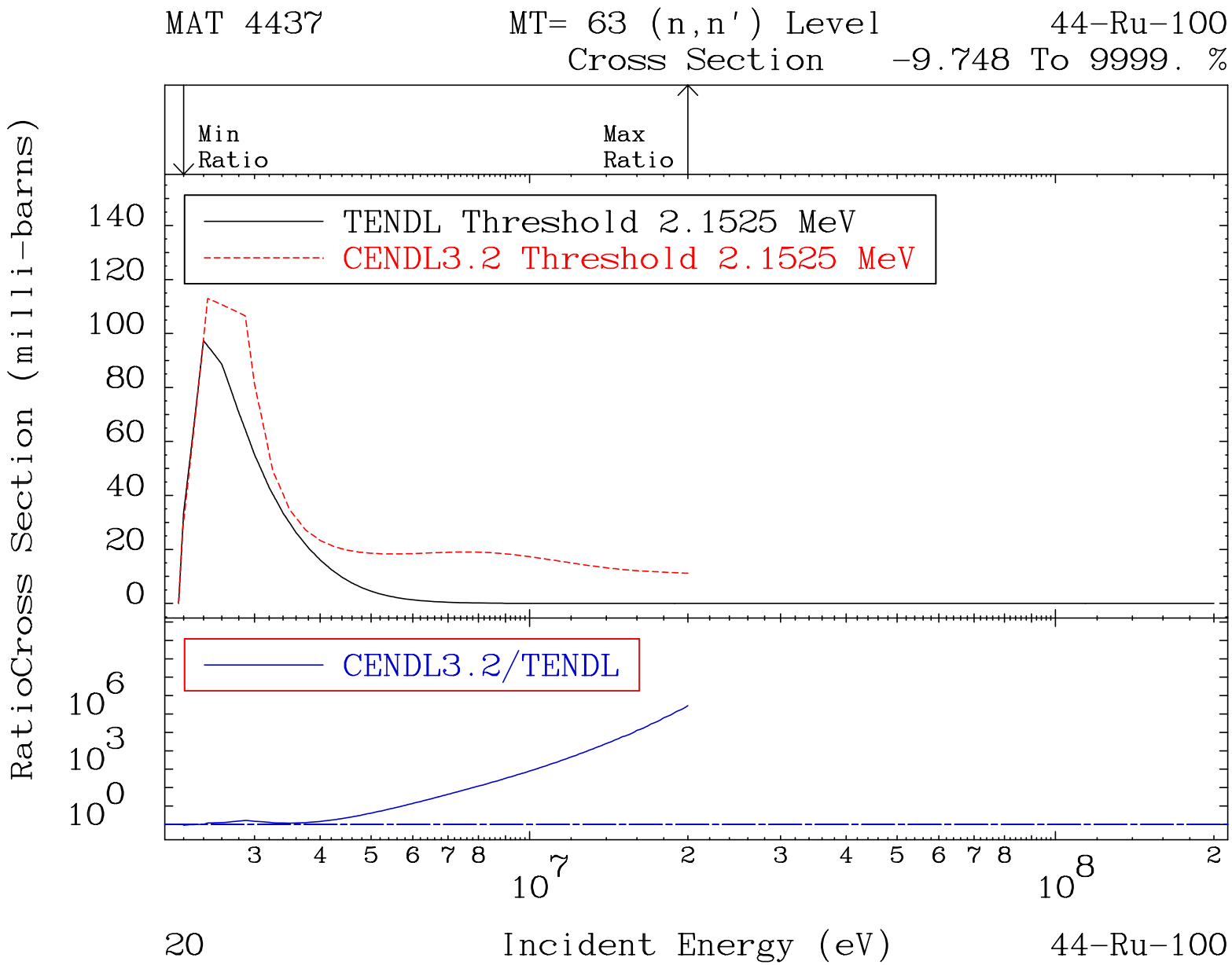

MAT 4437
MT= 58 (n,n') Level
44-Ru-100
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.9000 MeV
CENDL3.2 Threshold 2.0722 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
400
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
44-Ru-100

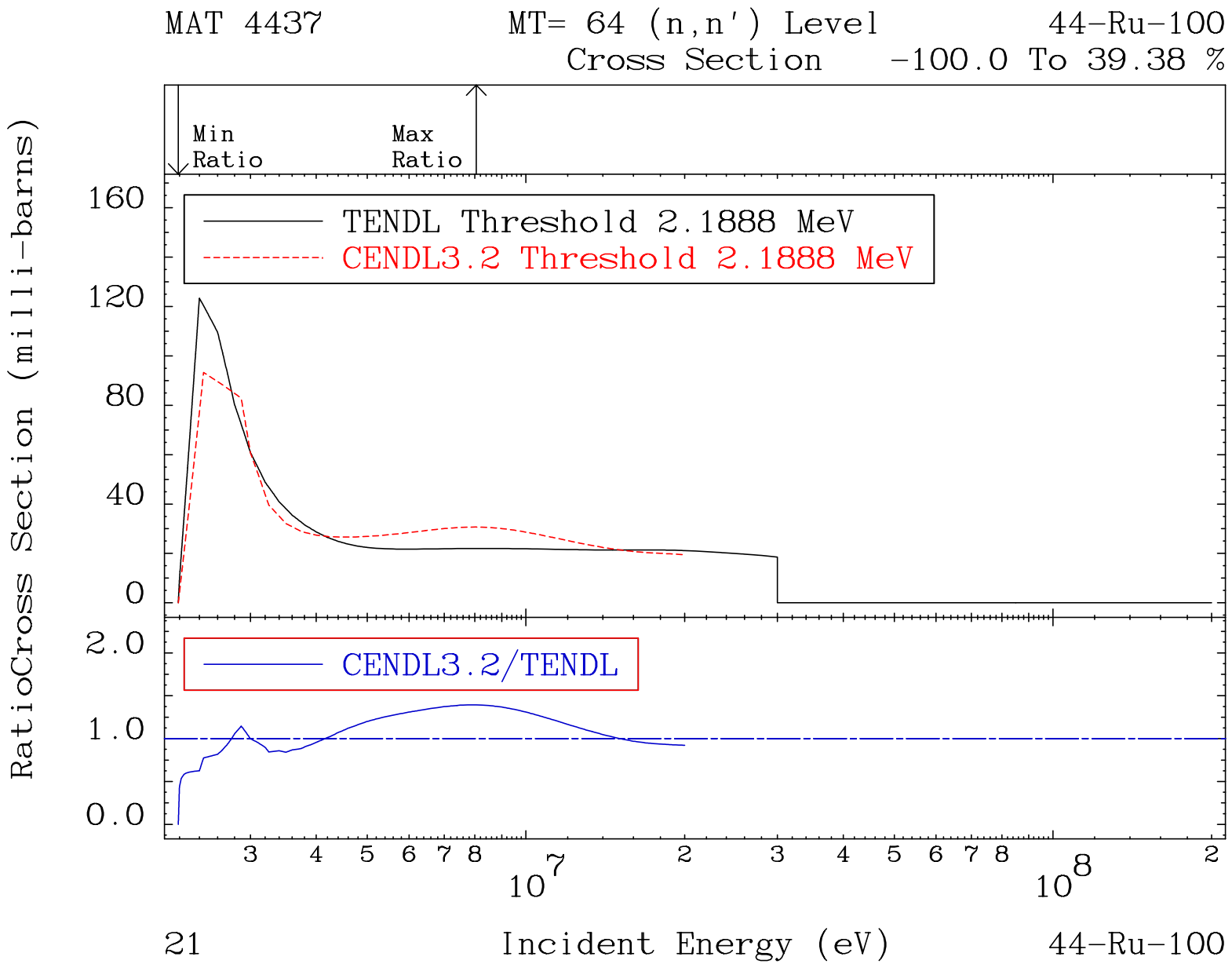

MAT 4437
MT= 59 (n,n') Level
44-Ru-100
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.0724 MeV
CENDL3.2 Threshold 2.0835 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
44-Ru-100

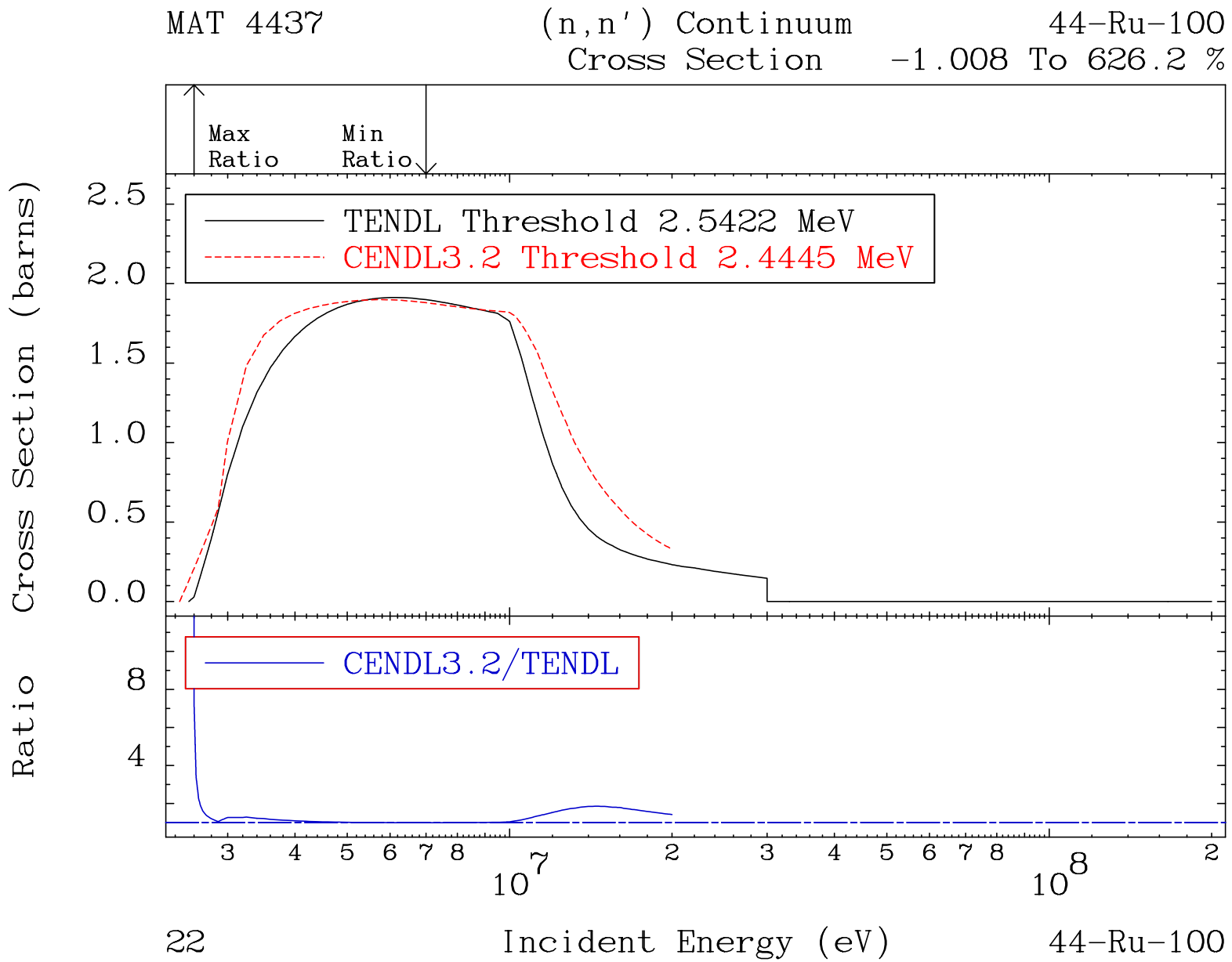

MAT 4437
MT= 60 (n,n') Level
44-Ru-100
Cross Section
-100.0 To 42.85 %
Max
Ratio
TENDL Threshold 2.0835 MeV
CENDL3.2 Threshold 2.0961 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
44-Ru-100

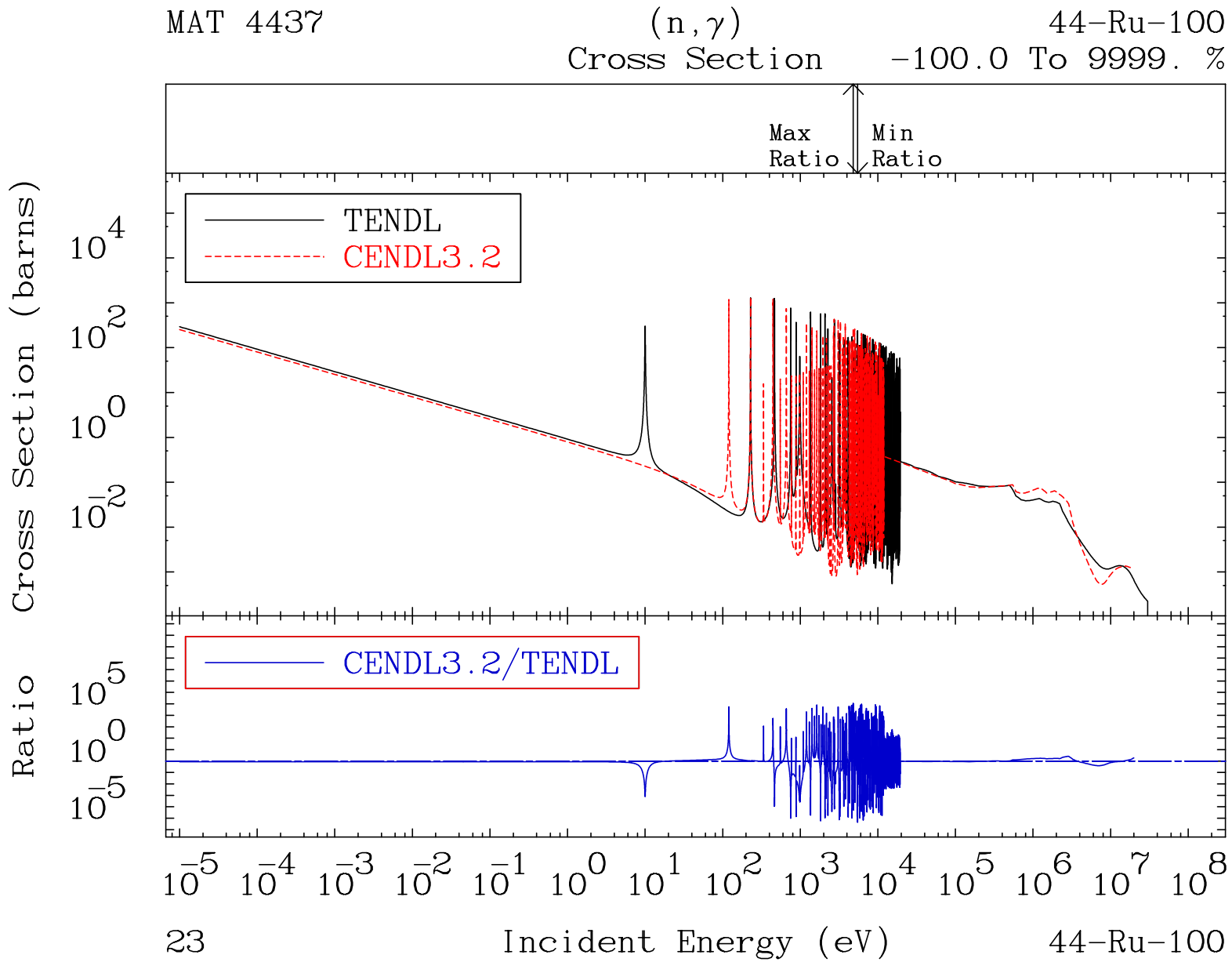

MAT 4437
MT= 61 (n,n') Level
44-Ru-100
Cross Section
-100.0 To 31.31 %
Max
Ratio
TENDL Threshold 2.0966 MeV
CENDL3.2 Threshold 2.0972 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
44-Ru-100

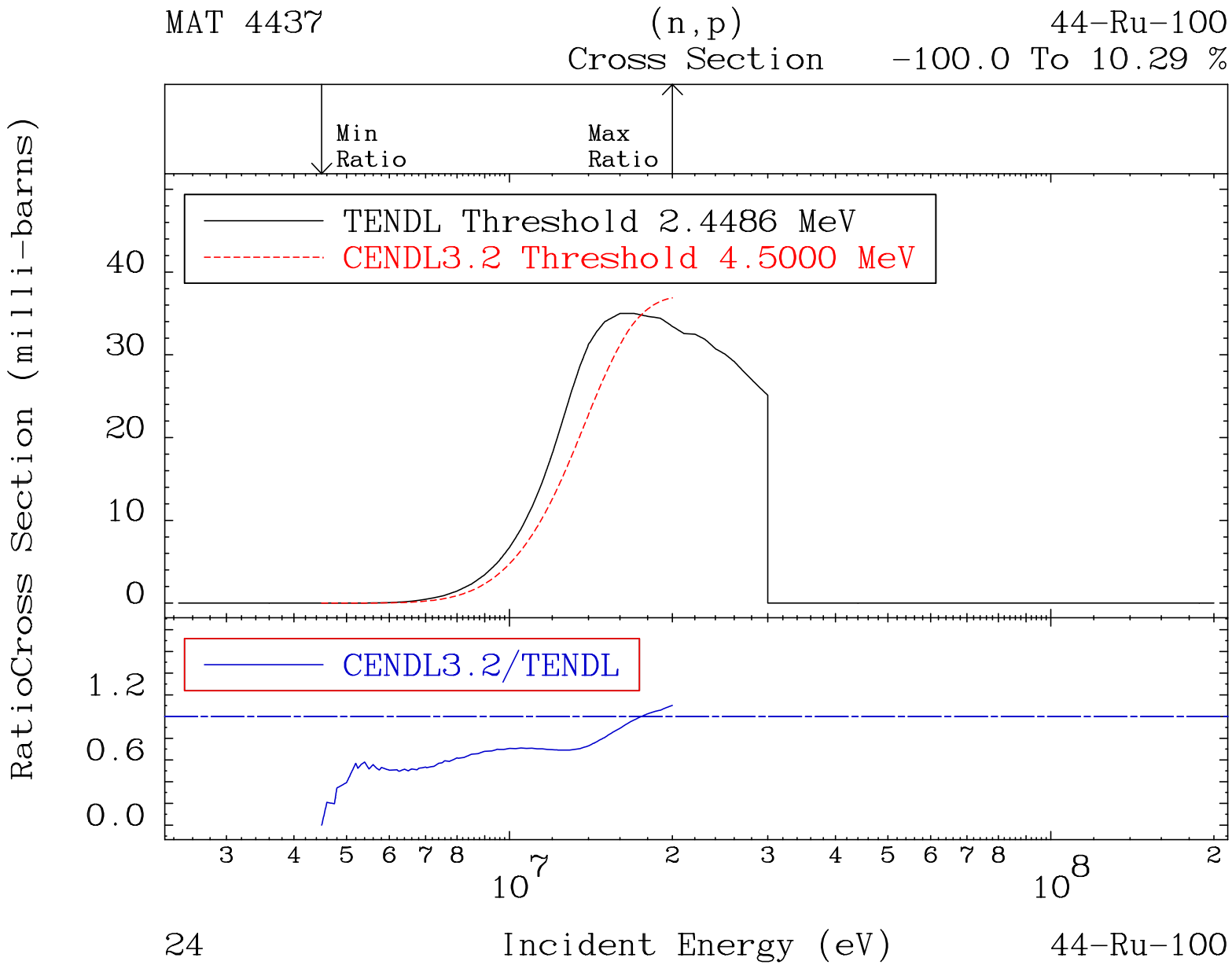

MAT 4437
MT= 62 (n,n') Level
Cross Section
44-Ru-100
-99.66 To -4.063%
Max Ratio
Min Ratio
TENDL Threshold 2.1203 MeV
CENDL3.2 Threshold 2.1203 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^0
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
44-Ru-100

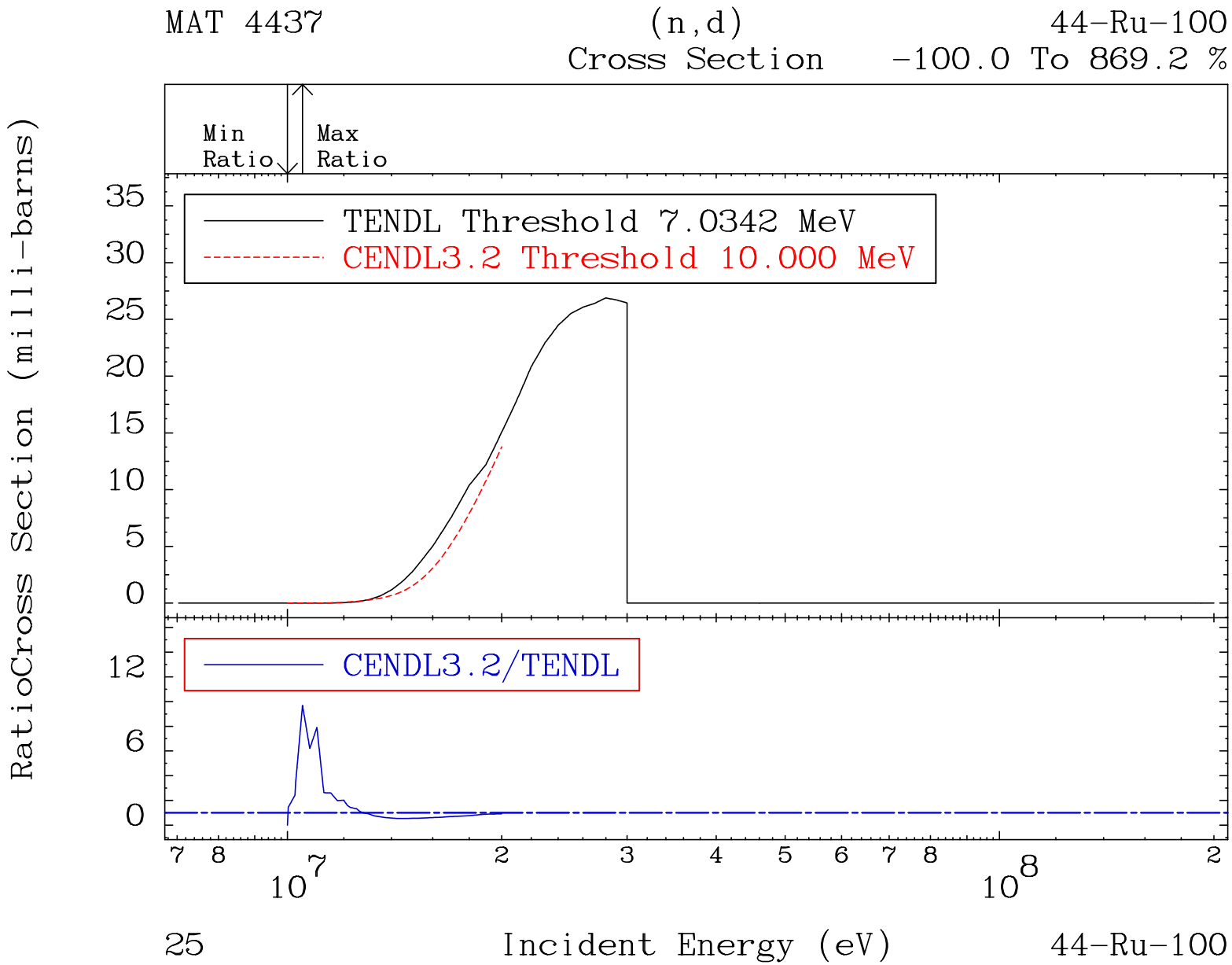

MAT 4437
MT= 63 (n,n') Level
44-Ru-100
Cross Section
-9.748 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.1525 MeV
CENDL3.2 Threshold 2.1525 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^6
10^3
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
44-Ru-100

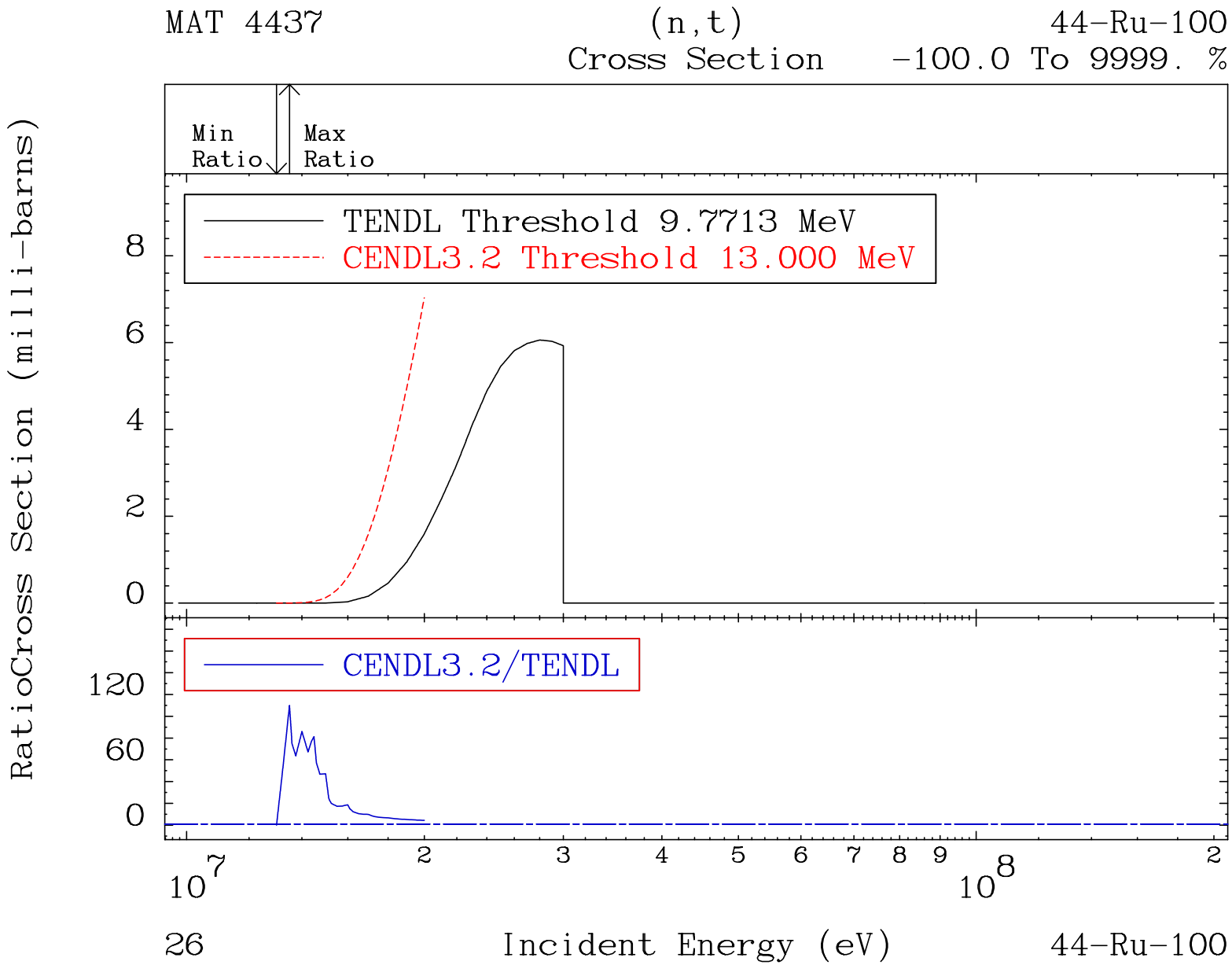

MAT 4437
MT= 64 (n,n') Level
44-Ru-100
Cross Section
-100.0 To 39.38 %
Min Ratio
Max Ratio
TENDL Threshold 2.1888 MeV
CENDL3.2 Threshold 2.1888 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
44-Ru-100

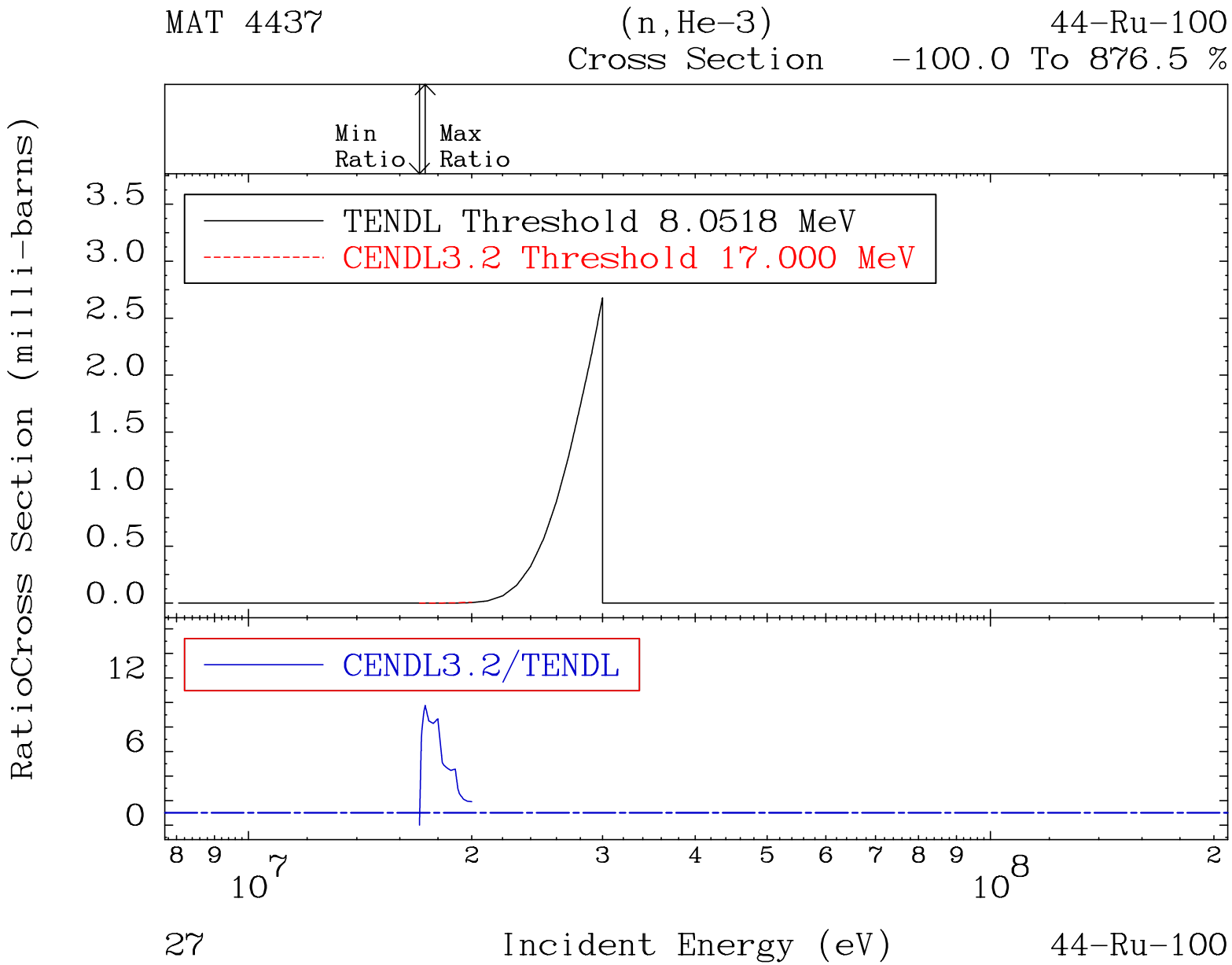

MAT 4437
(n,n') Continuum
Cross Section
44-Ru-100
-1.008 To 626.2 %
Max Ratio
Min Ratio
TENDL Threshold 2.5422 MeV
CENDL3.2 Threshold 2.4445 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
8
4
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
44-Ru-100

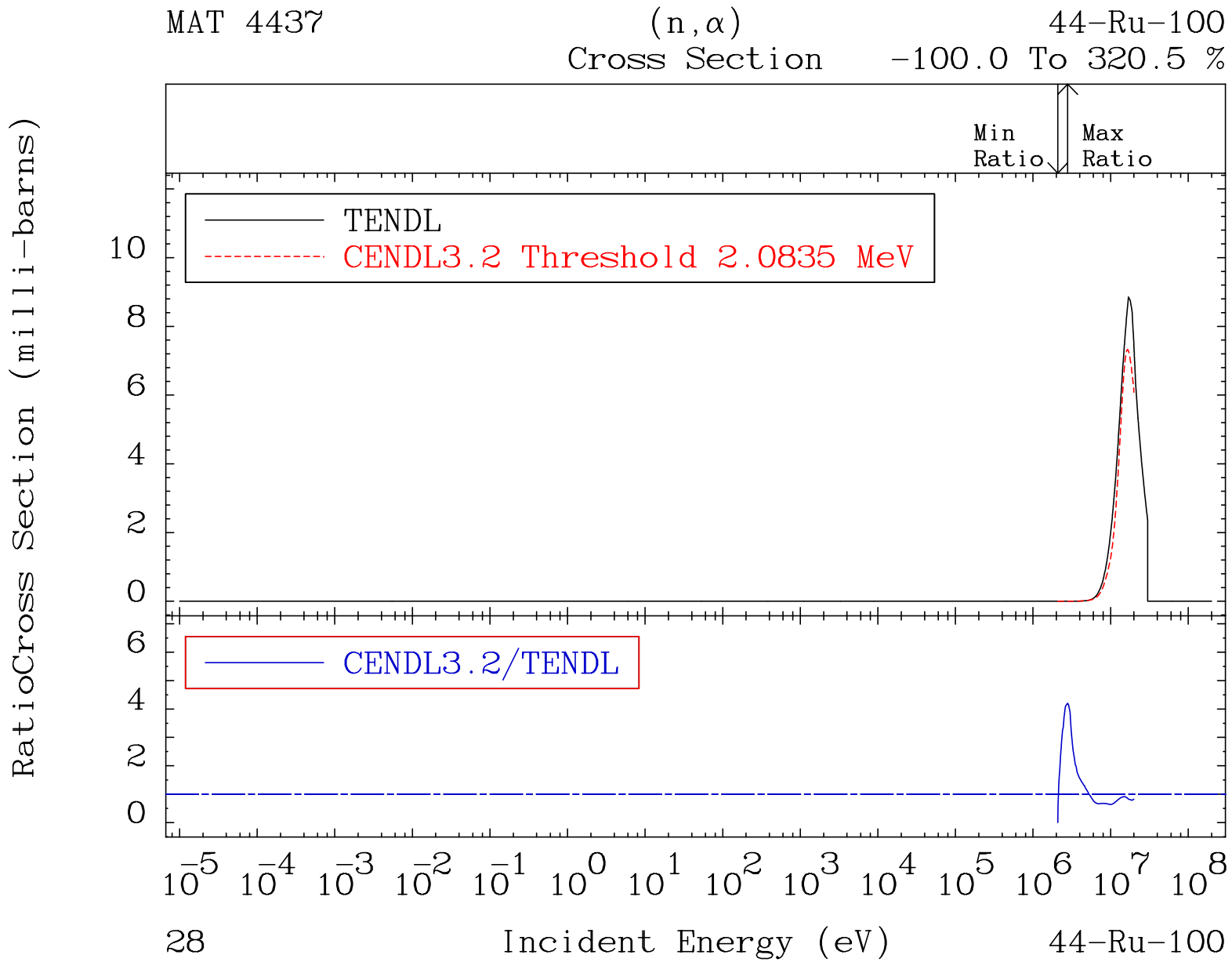

MAT 4437
(n,γ)
Cross Section
44-Ru-100
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
23
44-Ru-100

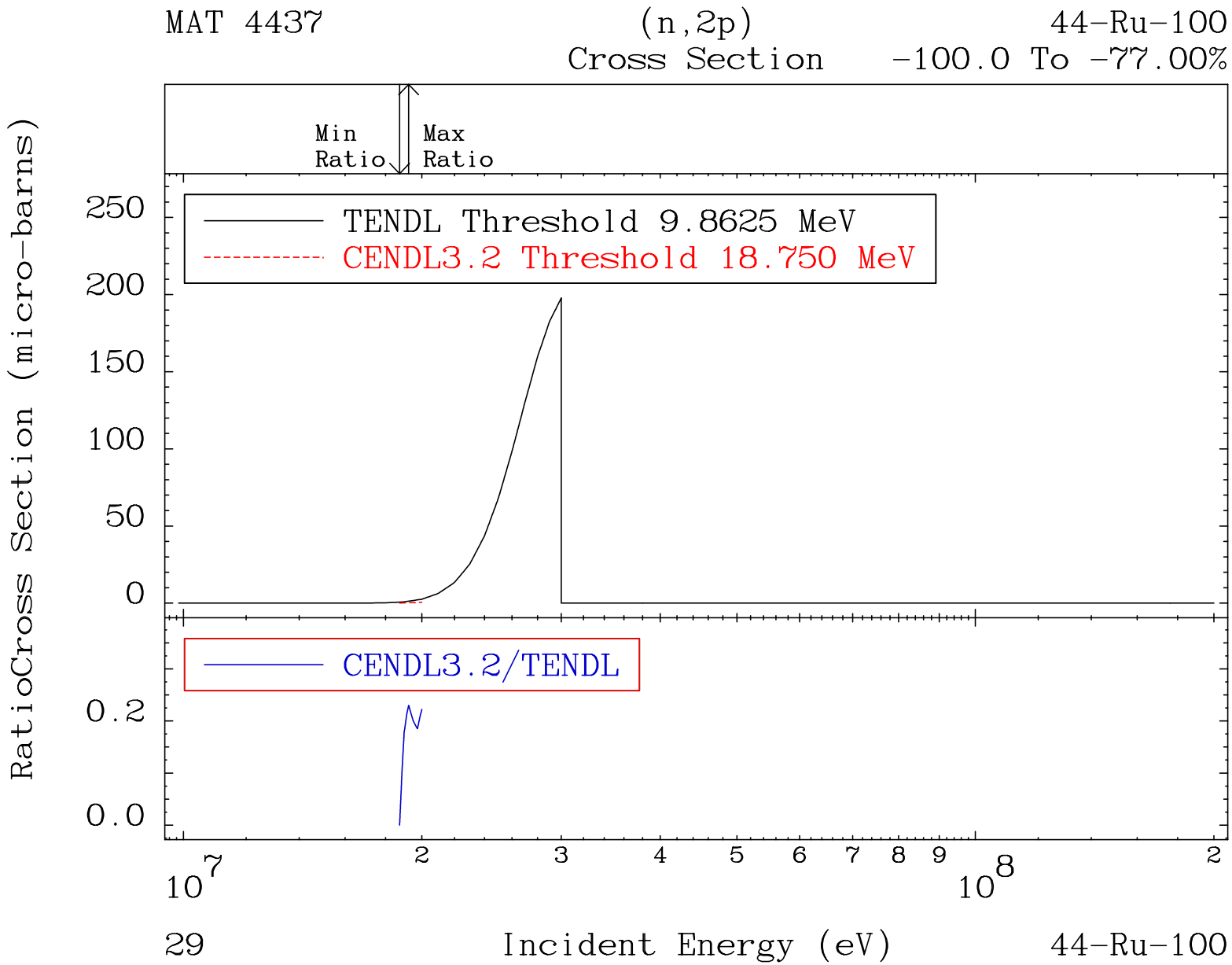

MAT 4437
(n,p)
Cross Section
44-Ru-100
-100.0 To 10.29 %
Min Ratio
Max Ratio
TENDL Threshold 2.4486 MeV
CENDL3.2 Threshold 4.5000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
44-Ru-100

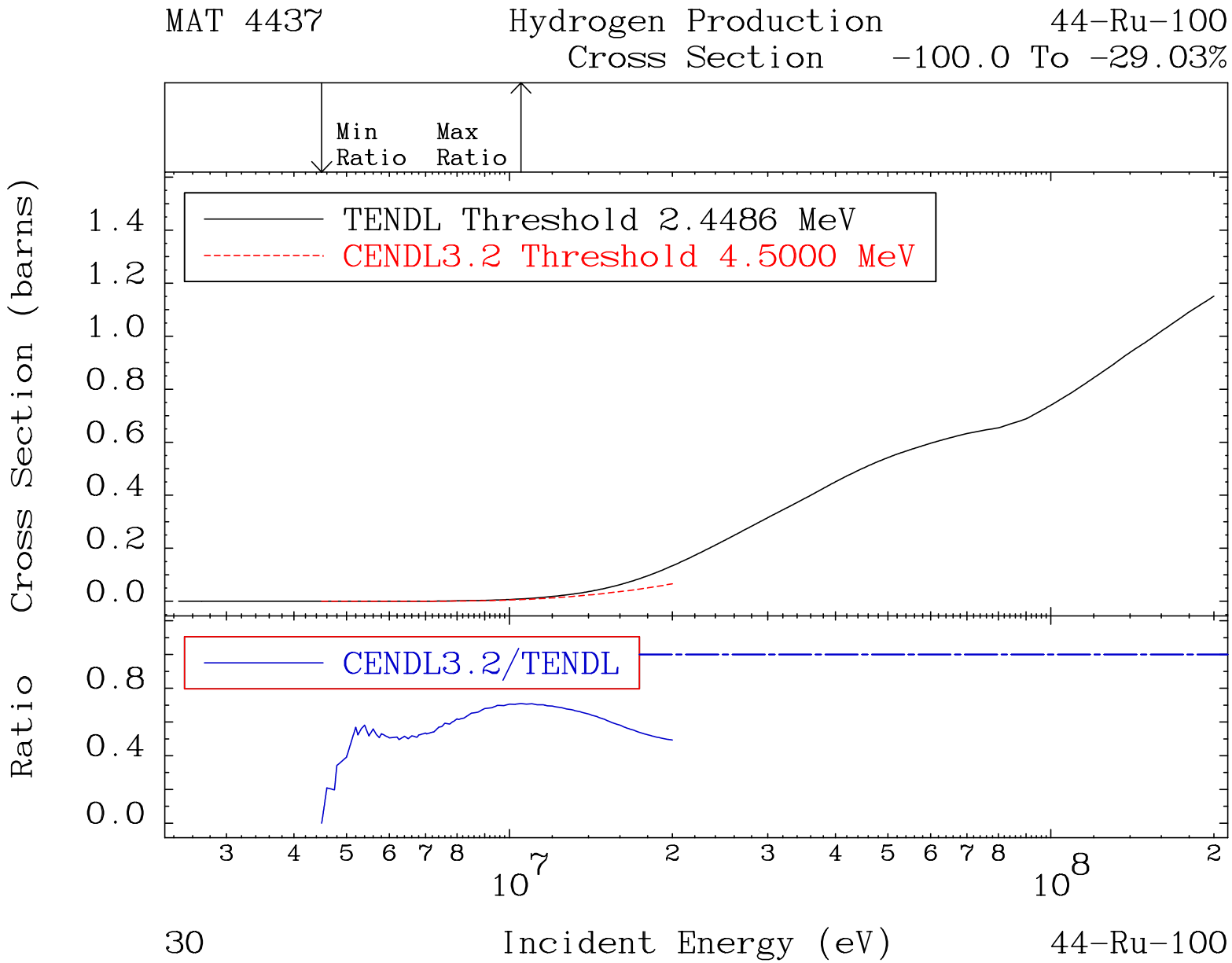

MAT 4437
(n,d)
Cross Section
44-Ru-100
-100.0 To 869.2 %
Min Ratio
Max Ratio
TENDL Threshold 7.0342 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
44-Ru-100

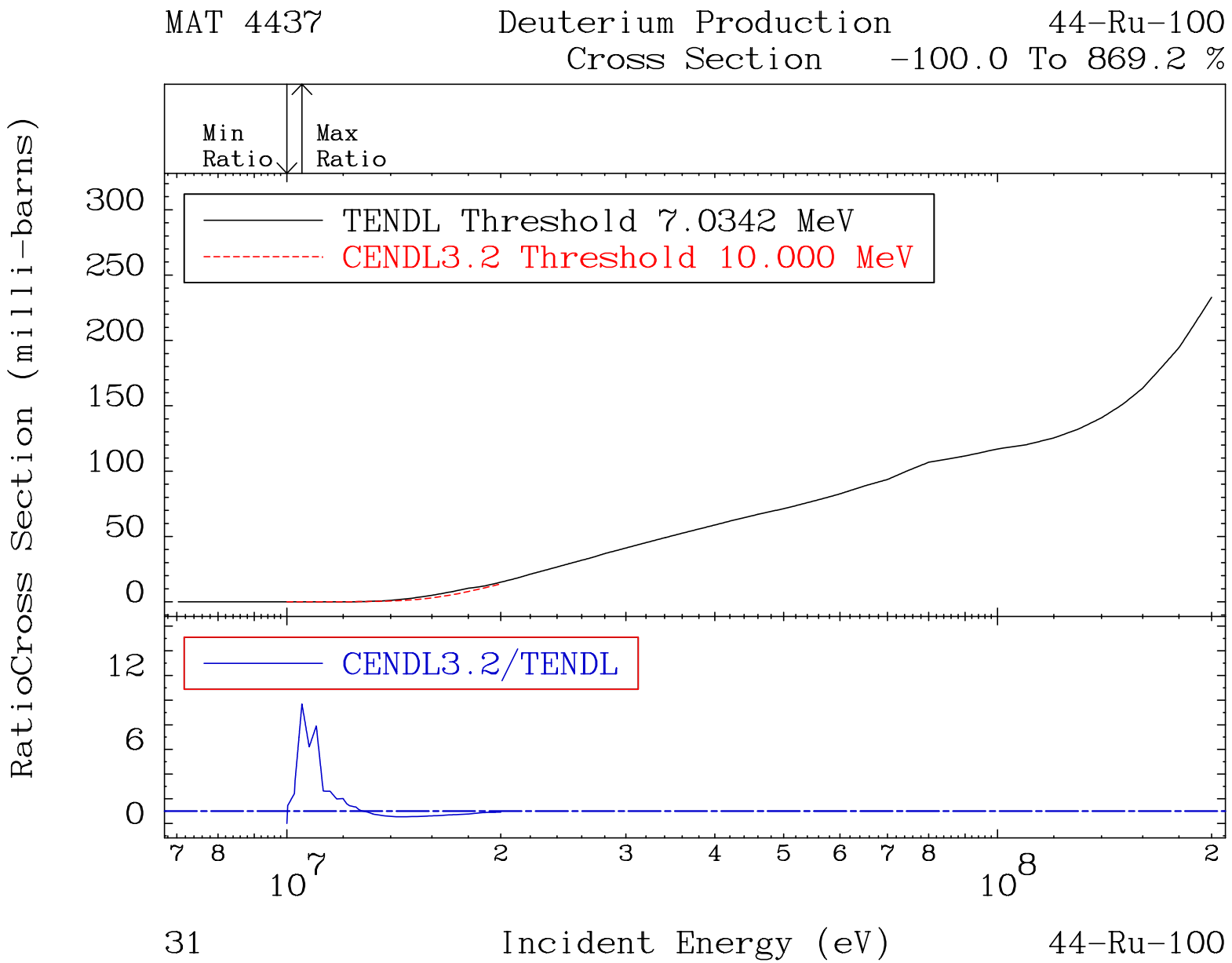

MAT 4437
(n,t)
Cross Section
44-Ru-100
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.7713 MeV
CENDL3.2 Threshold 13.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
120
60
0
10^7
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
44-Ru-100

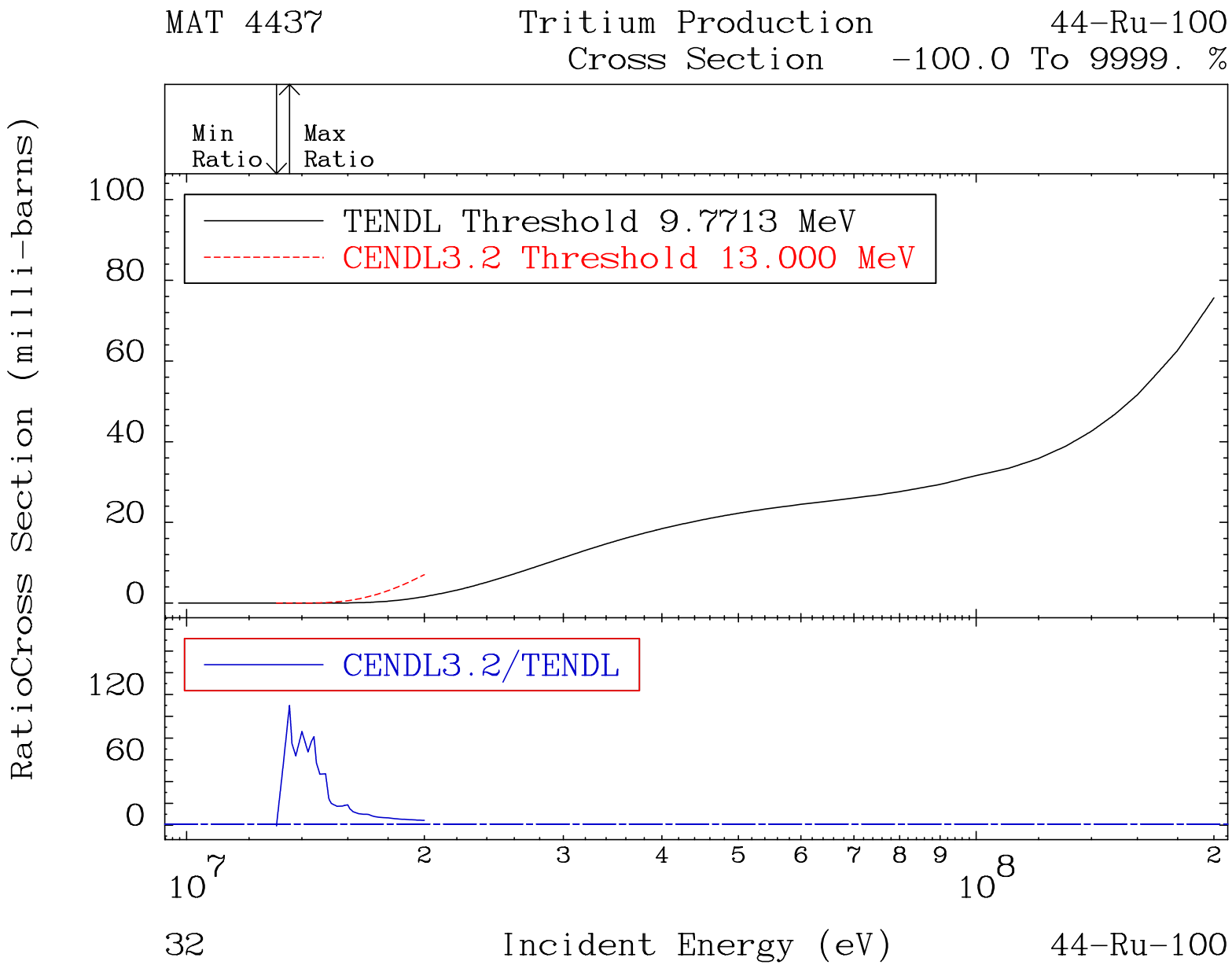

MAT 4437
(n,He-3)
Cross Section
44-Ru-100
-100.0 To 876.5 %
Min Ratio
Max Ratio
TENDL Threshold 8.0518 MeV
CENDL3.2 Threshold 17.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
12
6
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
44-Ru-100

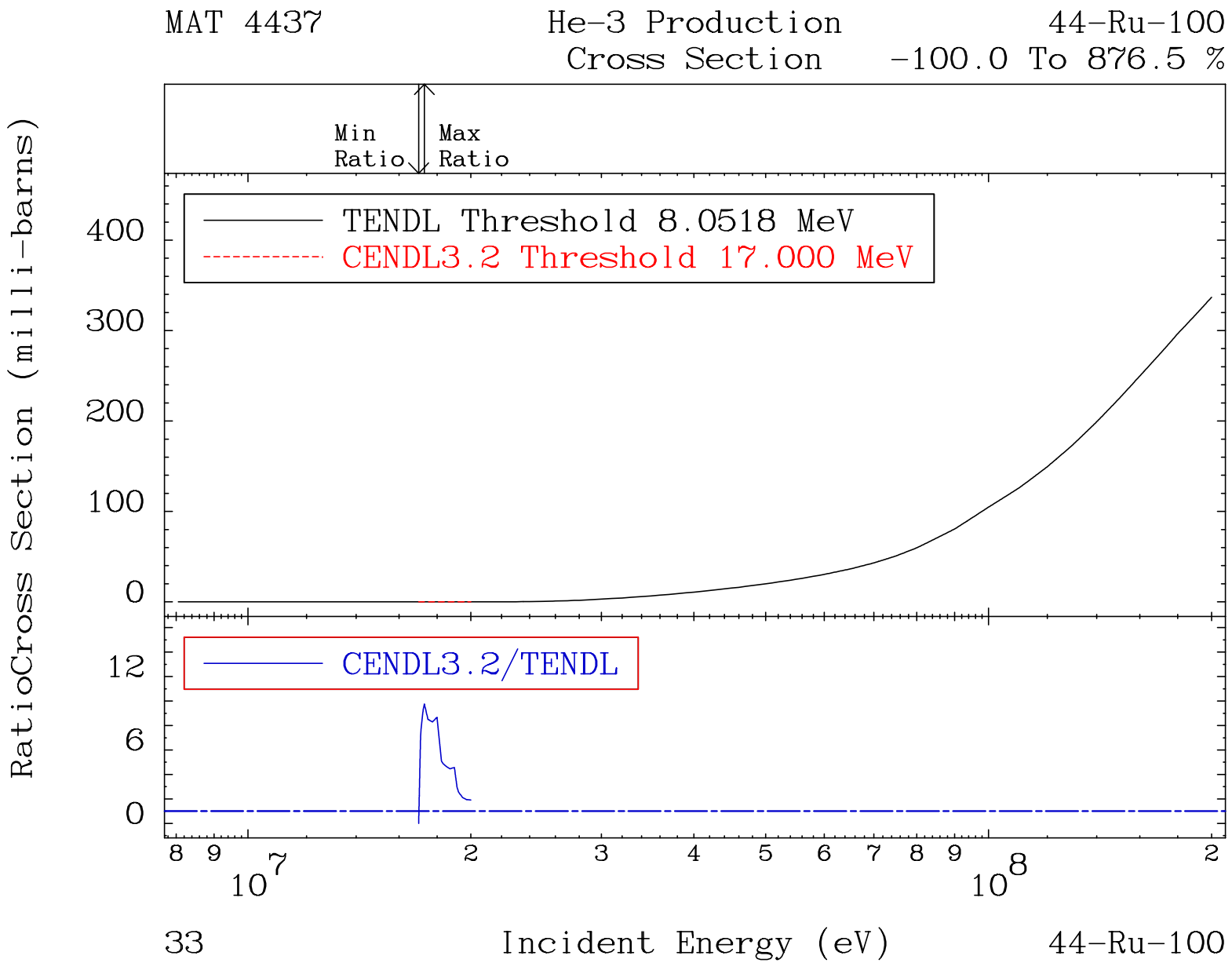

MAT 4437
(n,α)
Cross Section
44-Ru-100
-100.0 To 320.5 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 2.0835 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
28
44-Ru-100

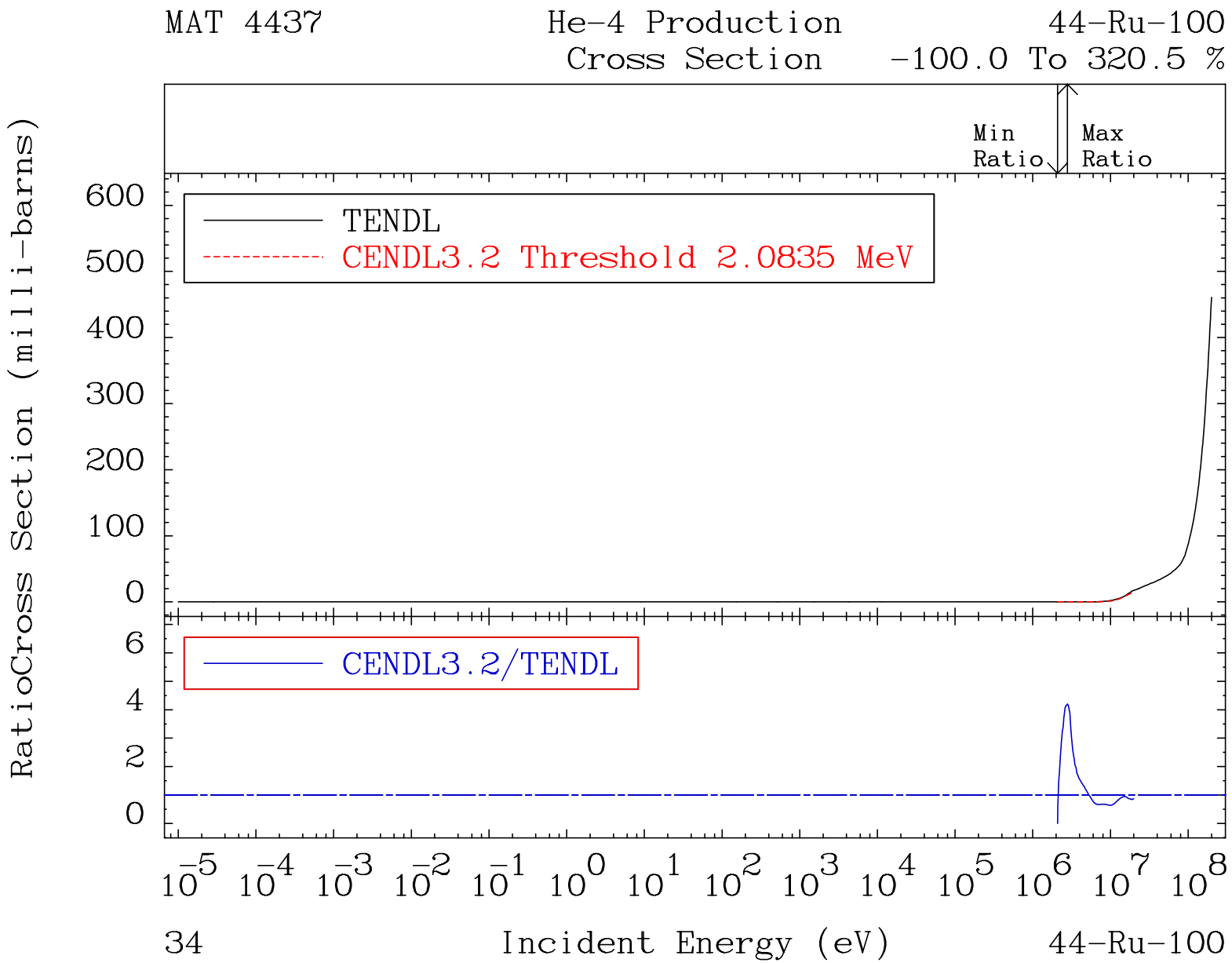

MAT 4437
(n,2p)
Cross Section
44-Ru-100
-100.0 To -77.00%
Min Ratio
Max Ratio
TENDL Threshold 9.8625 MeV
CENDL3.2 Threshold 18.750 MeV
CENDL3.2/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
0.2
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
44-Ru-100

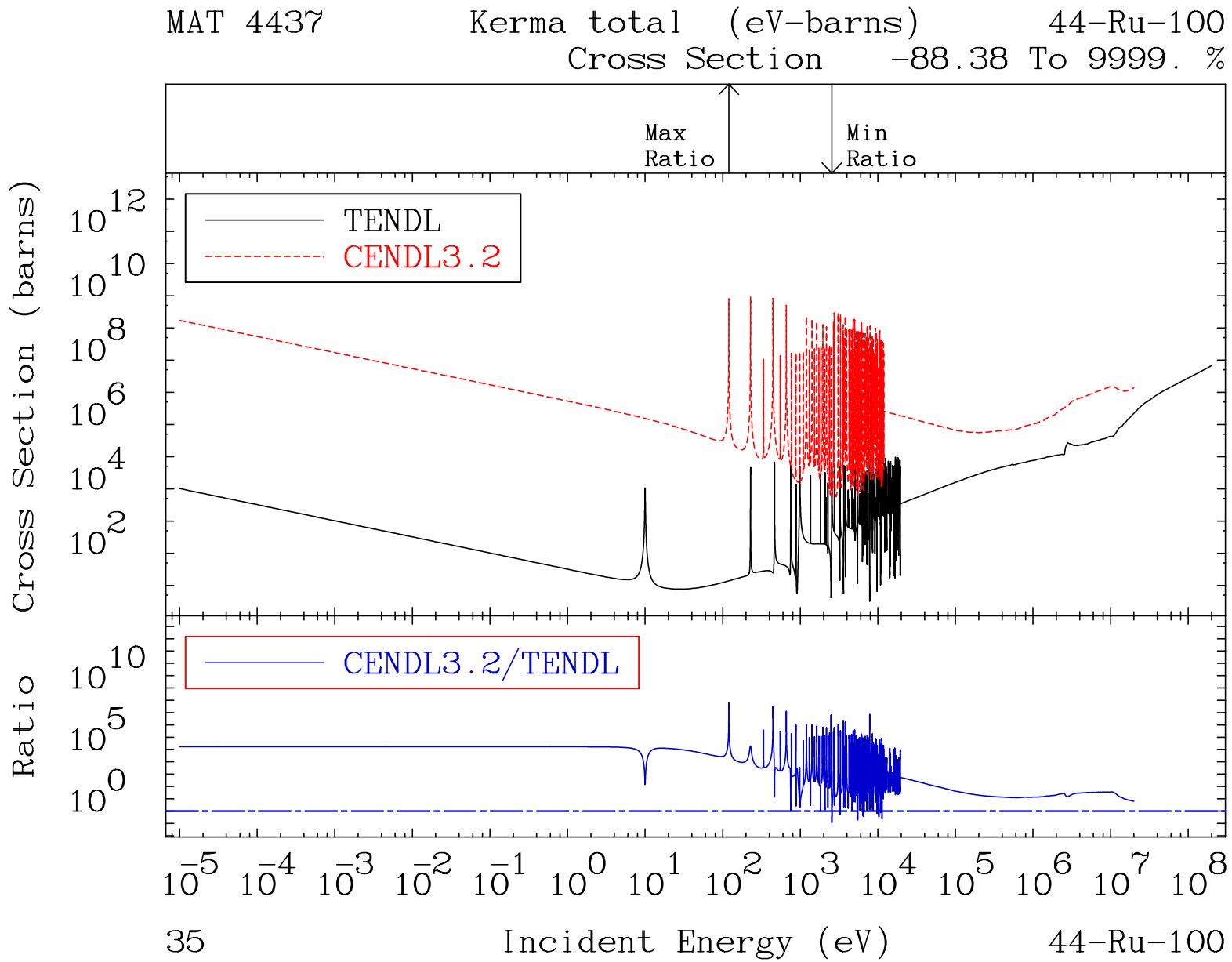

MAT 4437
Hydrogen Production
44-Ru-100
Cross Section
-100.0 To -29.03%
Min Ratio
Max Ratio
TENDL Threshold 2.4486 MeV
CENDL3.2 Threshold 4.5000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
30
44-Ru-100

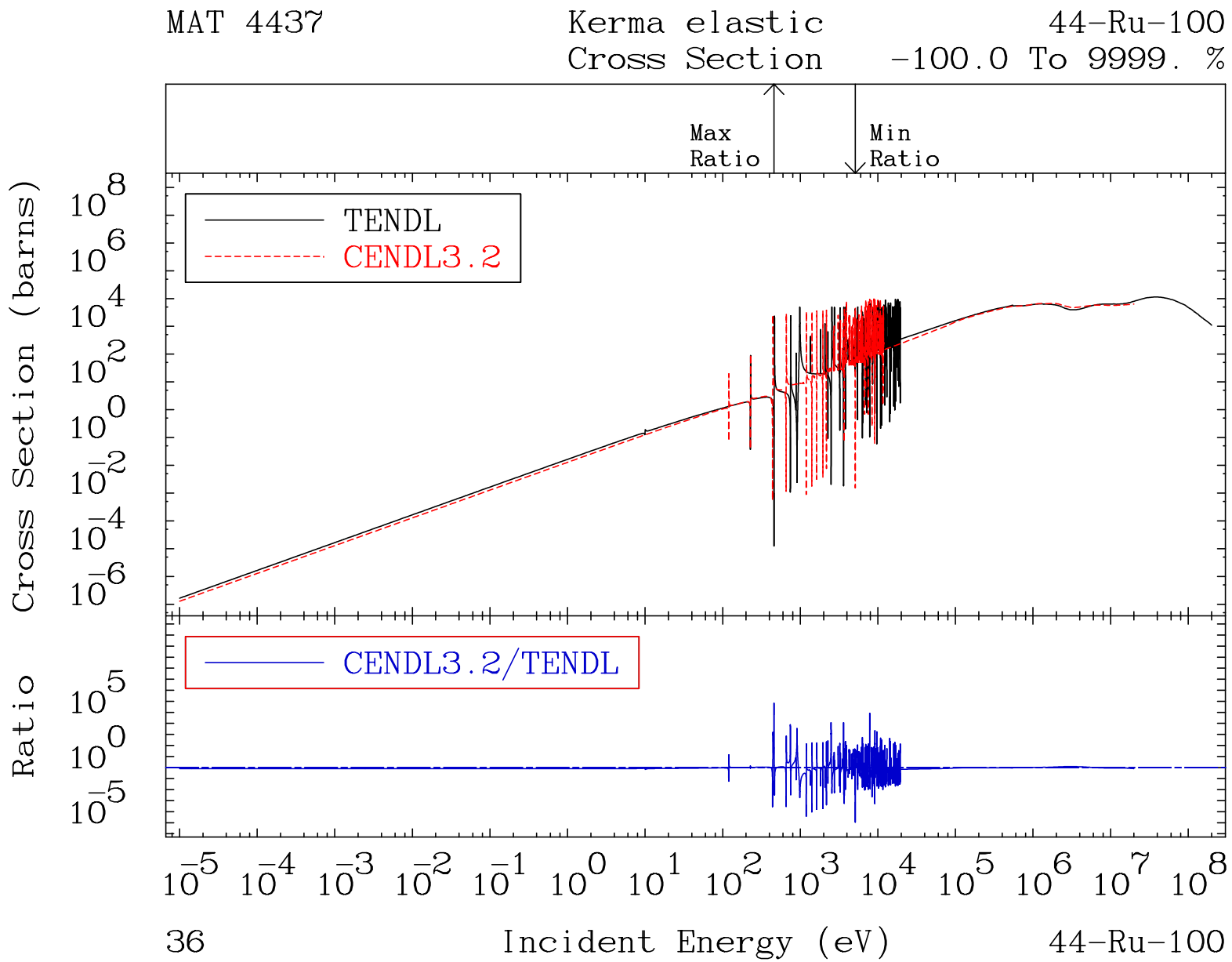

MAT 4437
Deuterium Production
44-Ru-100
Cross Section
-100.0 To 869.2 %
Min Ratio
Max Ratio
TENDL Threshold 7.0342 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
44-Ru-100

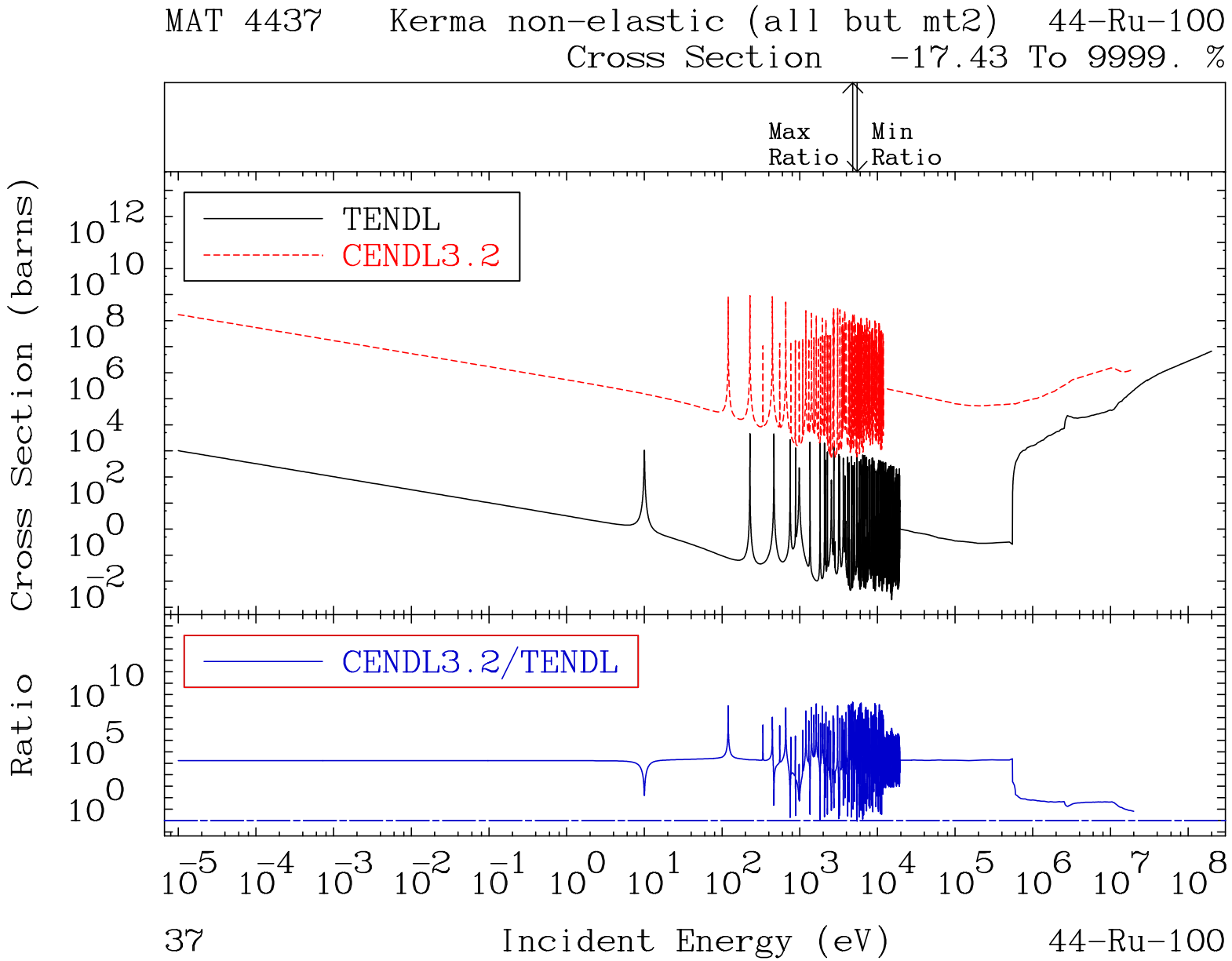

MAT 4437
Tritium Production
Cross Section
44-Ru-100
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.7713 MeV
CENDL3.2 Threshold 13.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
120
60
0
10^7
2
3
4
5
6
7
8
9
10^8
2
32
Incident Energy (eV)
44-Ru-100

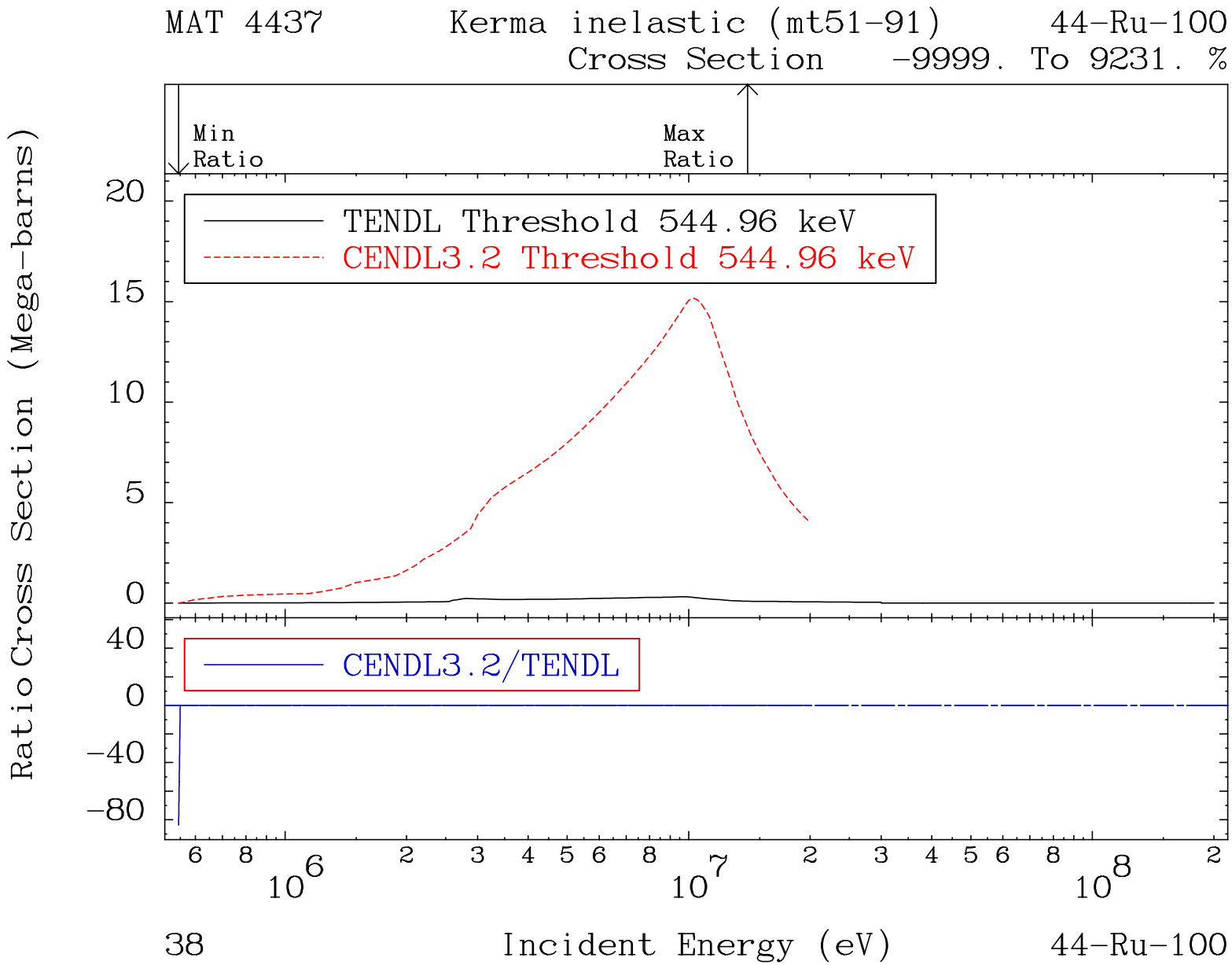

MAT 4437
He-3 Production
Cross Section
44-Ru-100
-100.0 To 876.5 %
Min Ratio
Max Ratio
TENDL Threshold 8.0518 MeV
CENDL3.2 Threshold 17.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
12
6
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
44-Ru-100

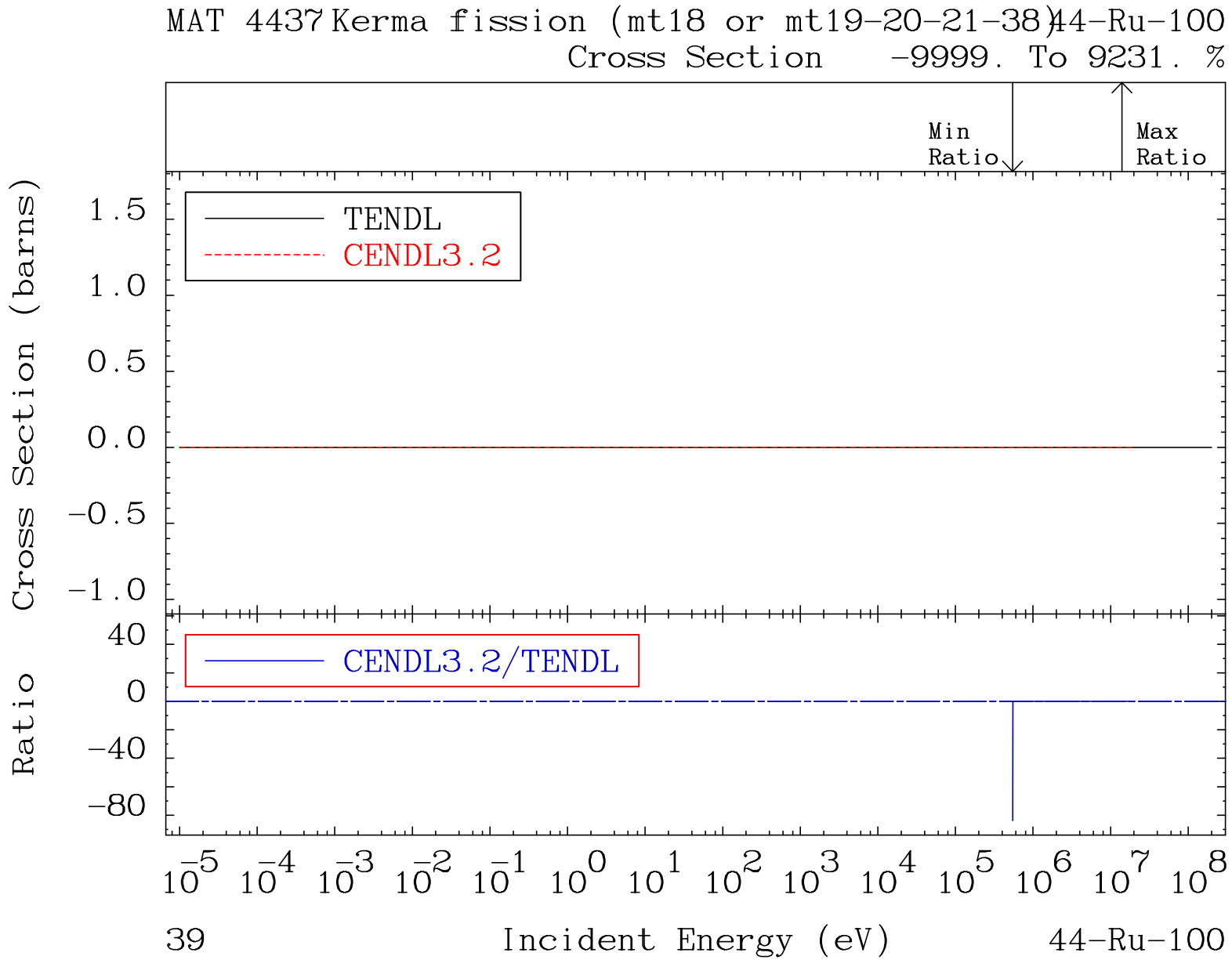

MAT 4437
He-4 Production
Cross Section
44-Ru-100
-100.0 To 320.5 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 2.0835 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
6
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
34
Incident Energy (eV)
44-Ru-100

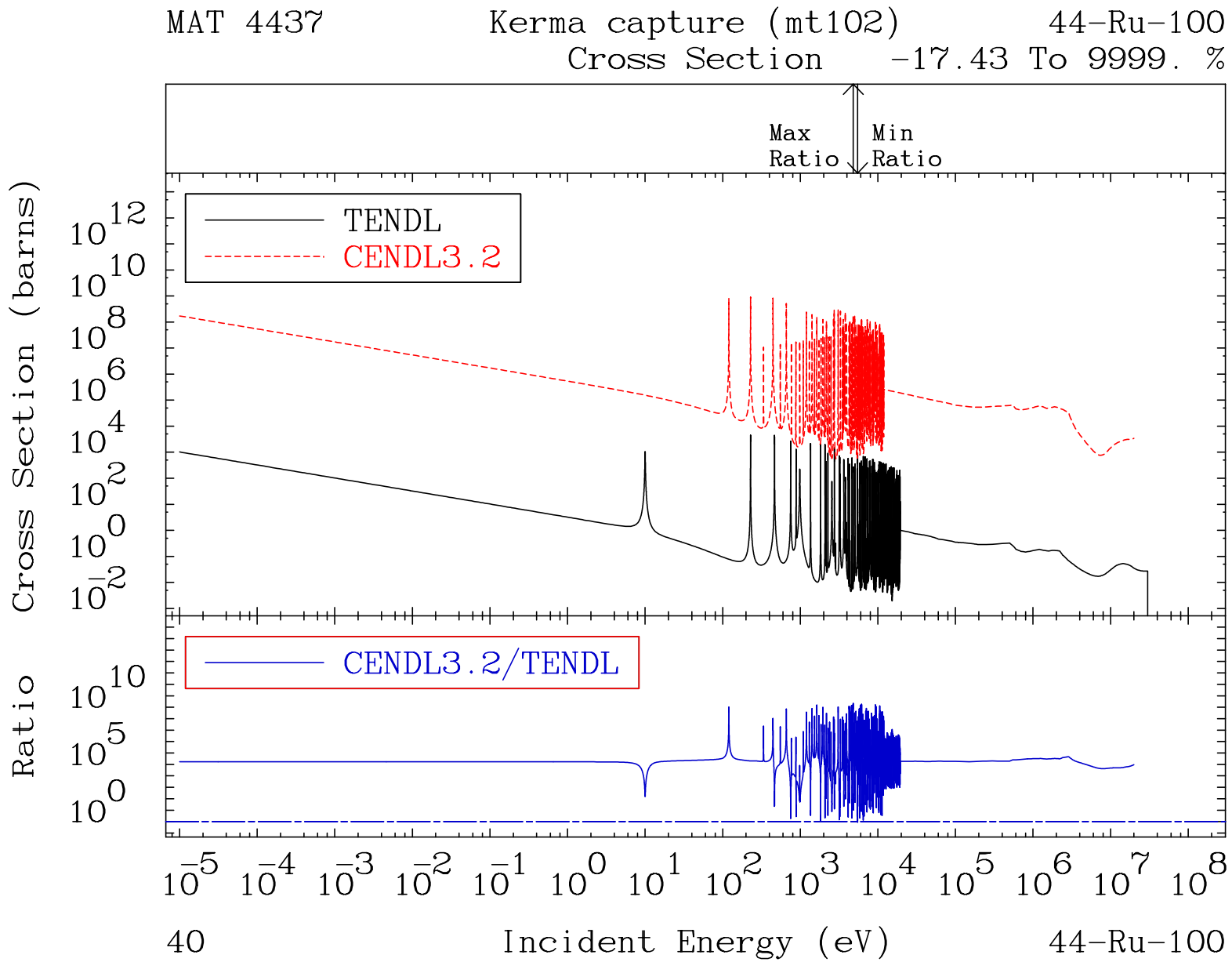

MAT 4437
Kerma total (eV-barns)
44-Ru-100
Cross Section -88.38 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
35
44-Ru-100

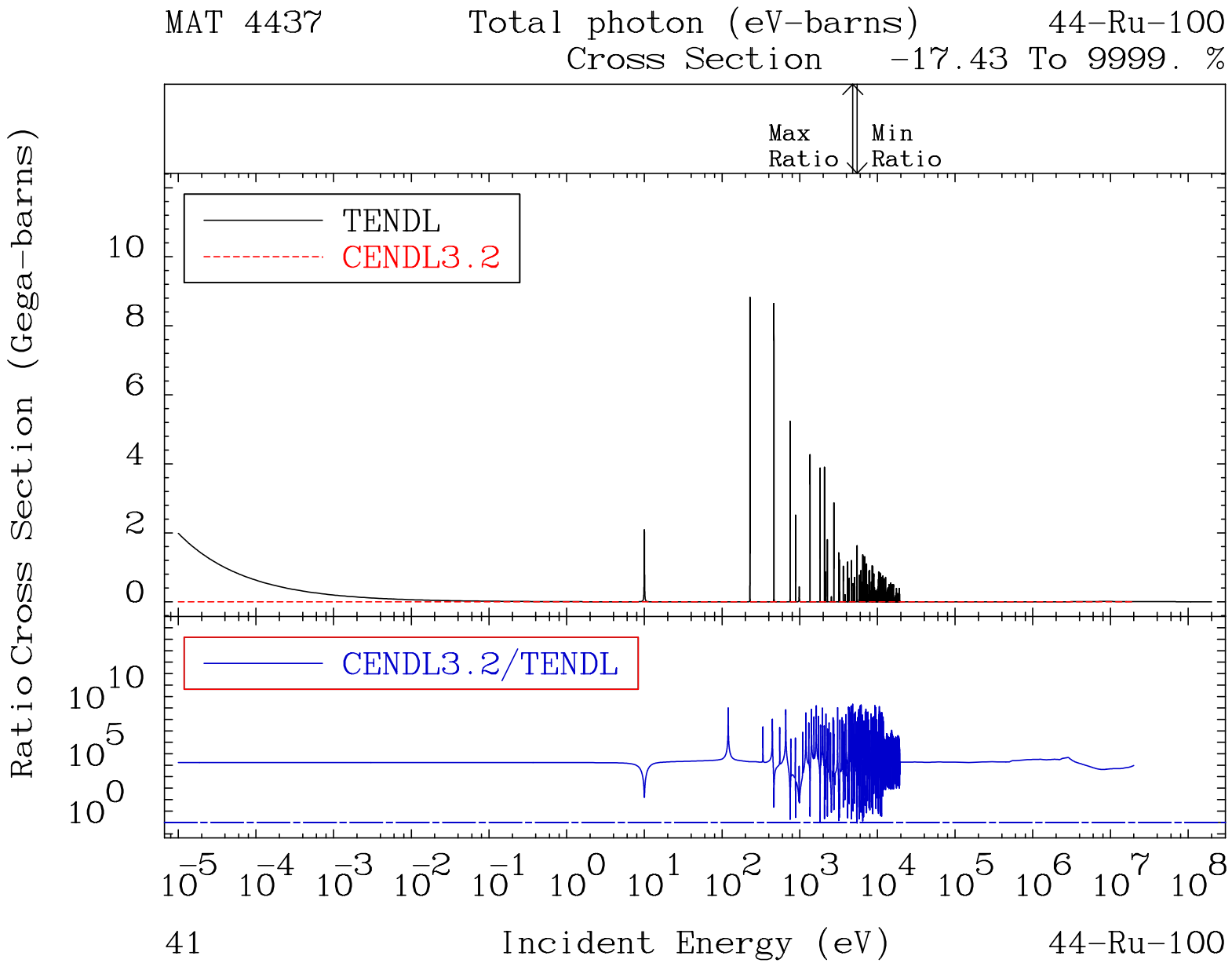

MAT 4437
Kerma elastic
Cross Section
44-Ru-100
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
44-Ru-100

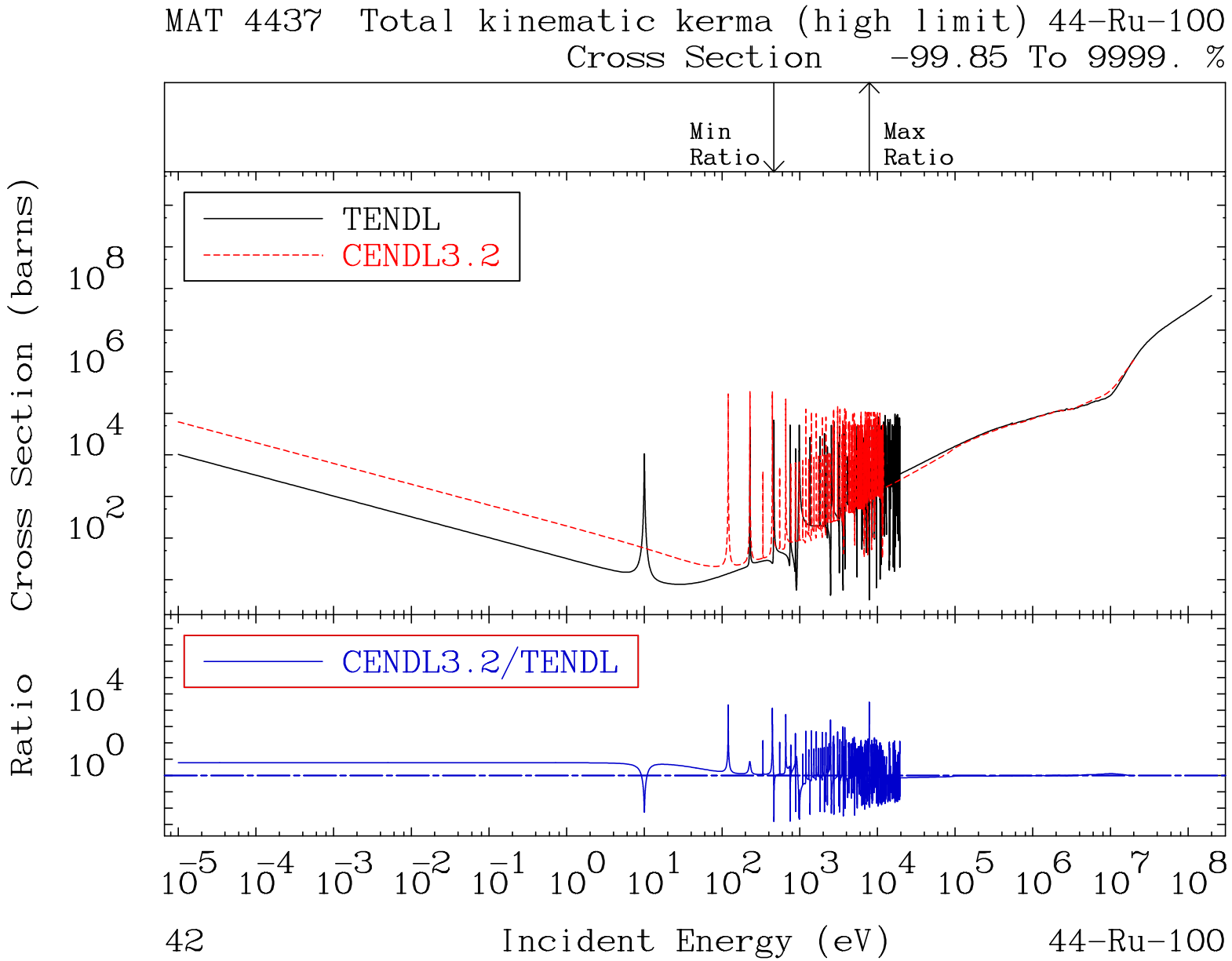

MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100
Cross Section -17.43 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
37
44-Ru-100

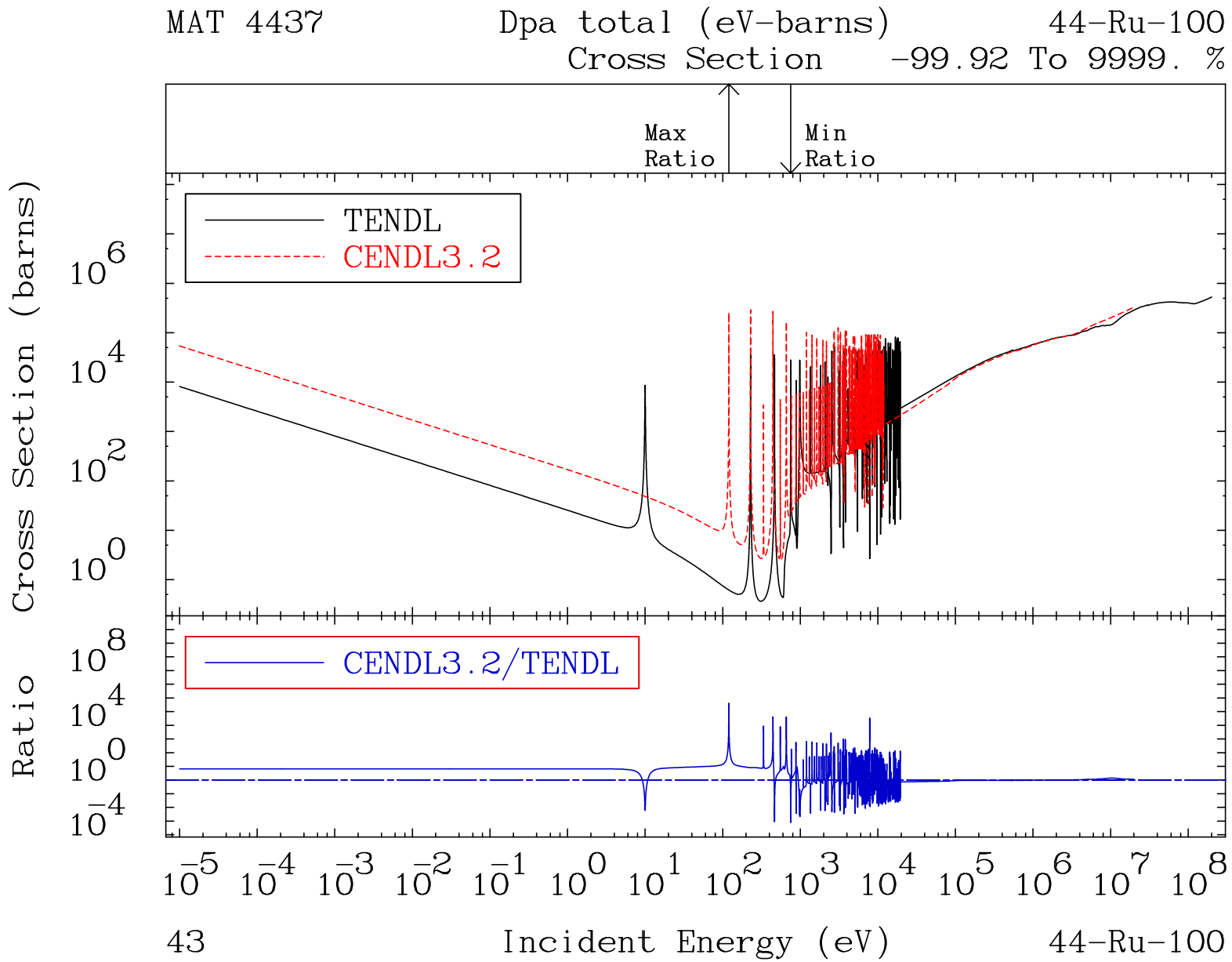

MAT 4437
Kerma inelastic (mt51-91)
44-Ru-100
Cross Section -9999. To 9231. %
Min Ratio
Max Ratio
TENDL Threshold 544.96 keV
CENDL3.2 Threshold 544.96 keV
CENDL3.2/TENDL
Ratio Cross Section (Mega-barns)
Incident Energy (eV)
38
44-Ru-100

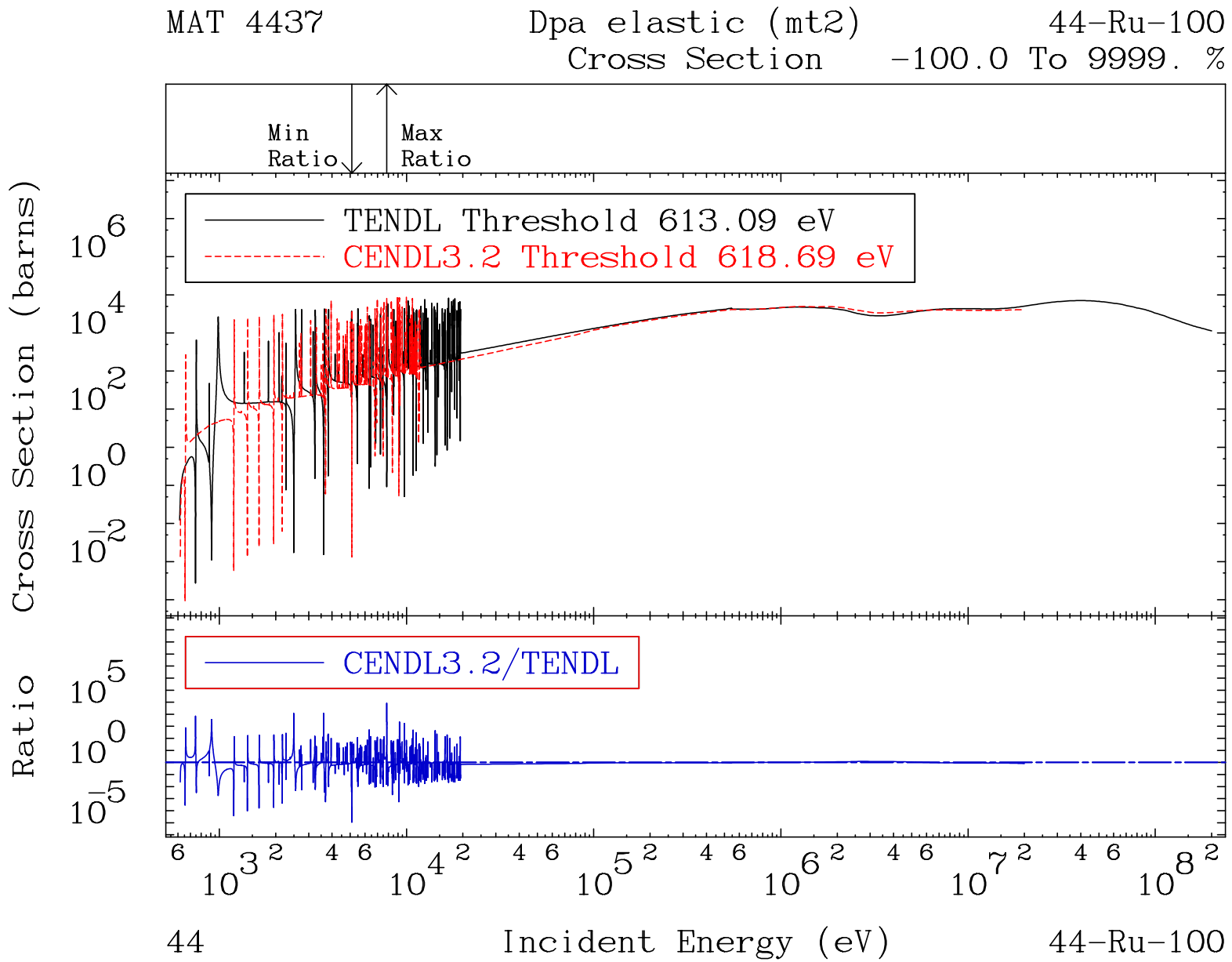

MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100
Cross Section -9999. To 9231. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
40
0
-40
-80
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
39
Incident Energy (eV)
44-Ru-100

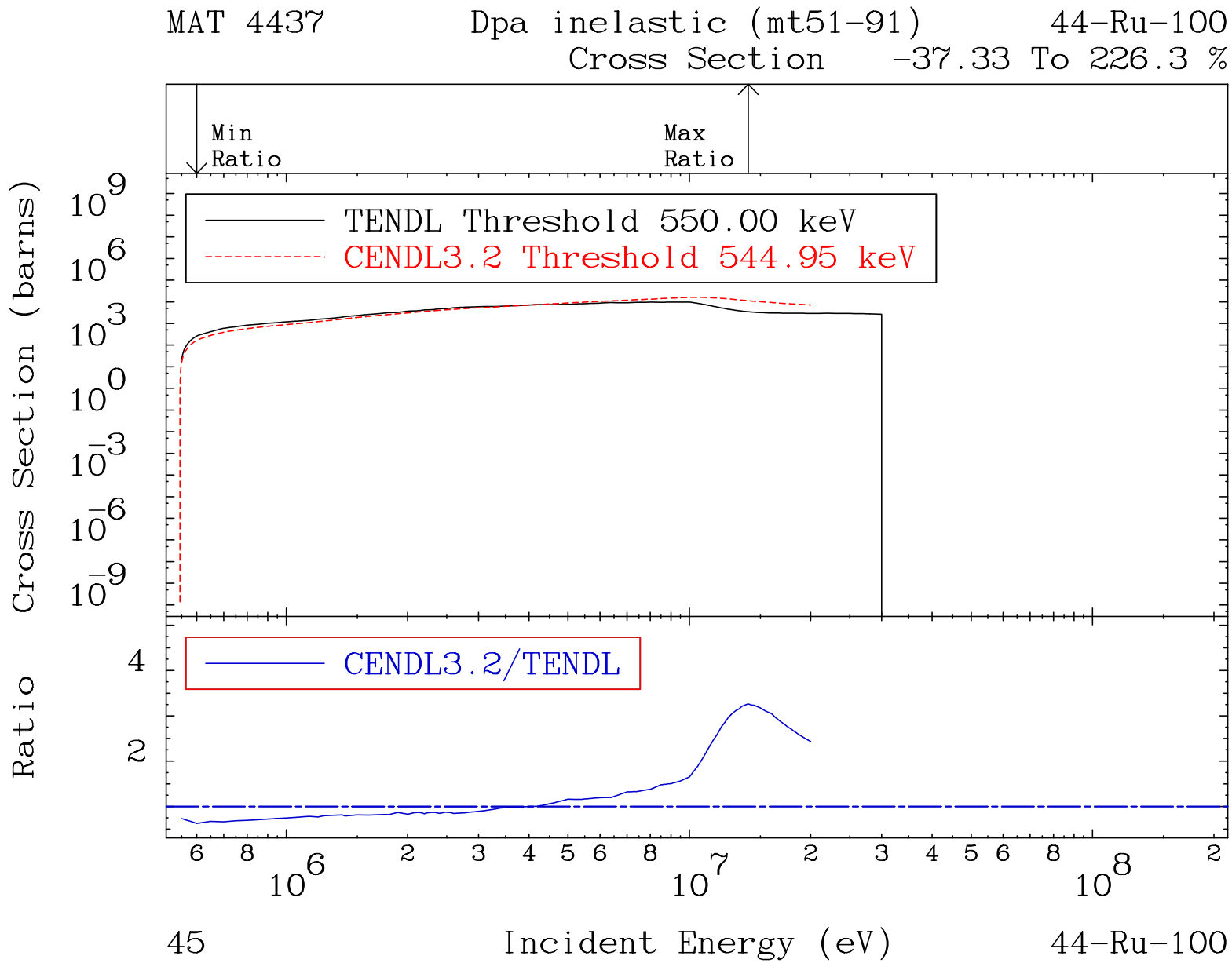

MAT 4437
Kerma capture (mt102)
44-Ru-100
Cross Section
-17.43 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
40
44-Ru-100

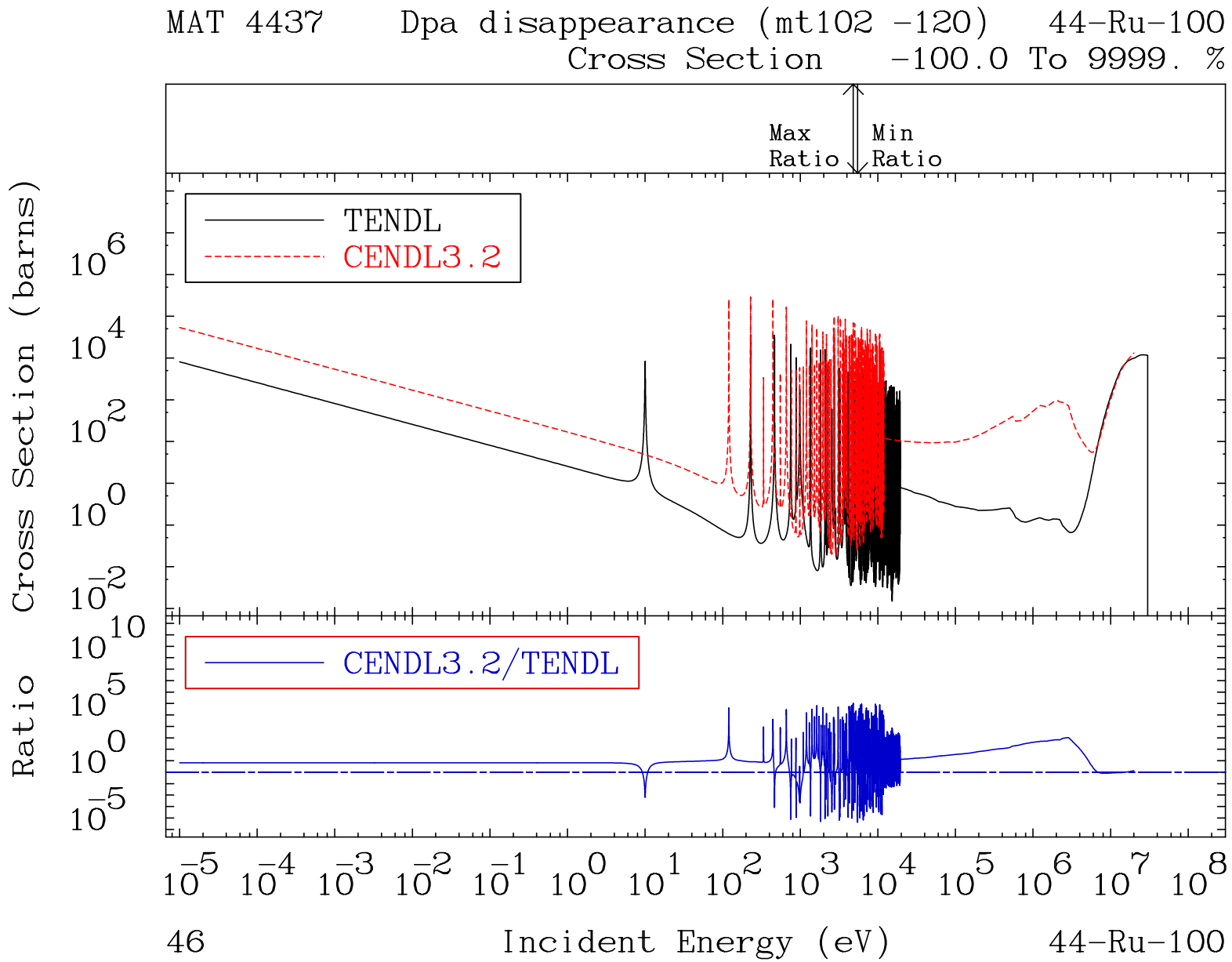

MAT 4437
Total photon (eV-barns)
44-Ru-100
Cross Section
-17.43 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (Giga-barns)
Incident Energy (eV)
41
44-Ru-100

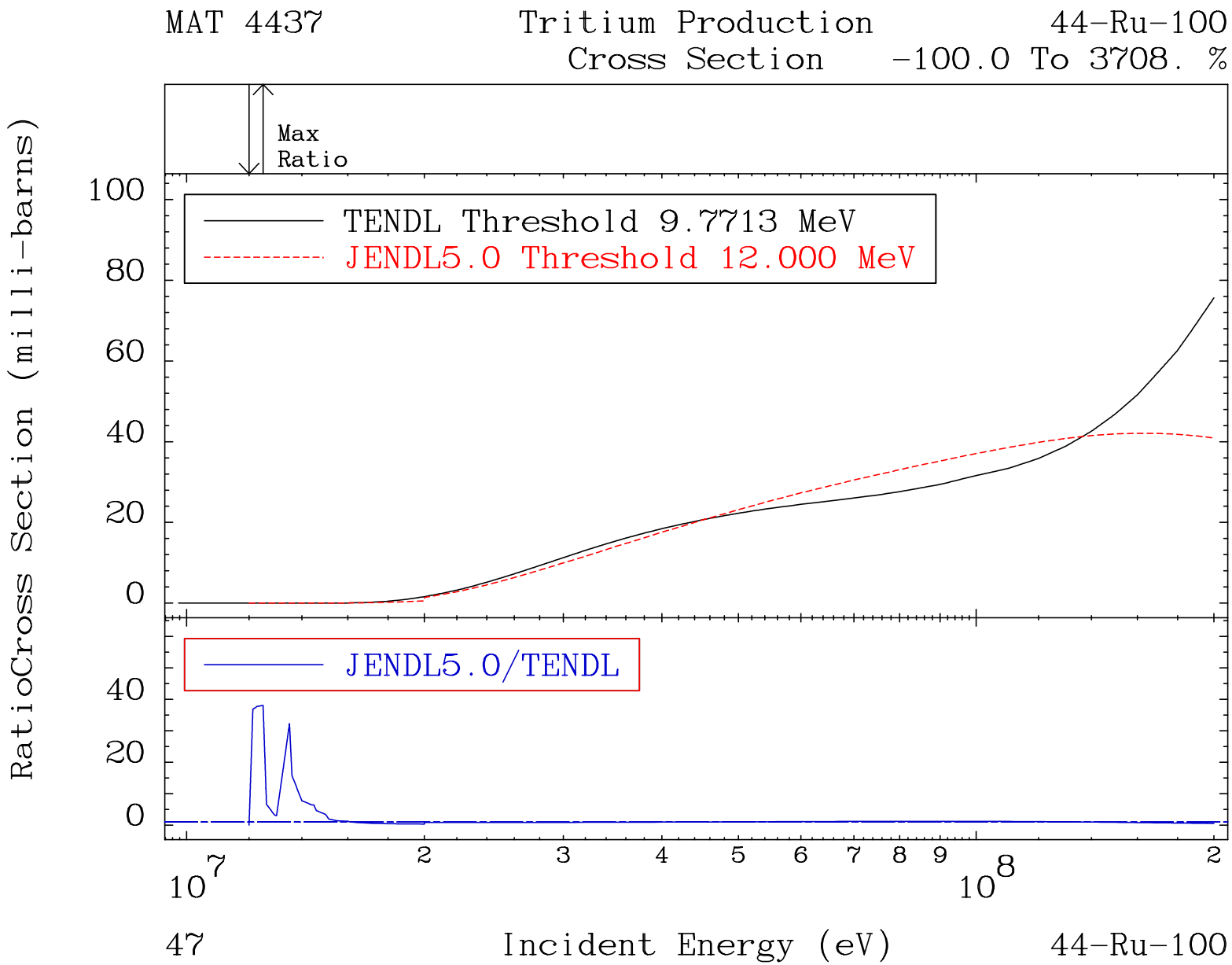

MAT 4437 Total kinematic kerma (high limit) 44-Ru-100
Cross Section -99.85 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
42
44-Ru-100

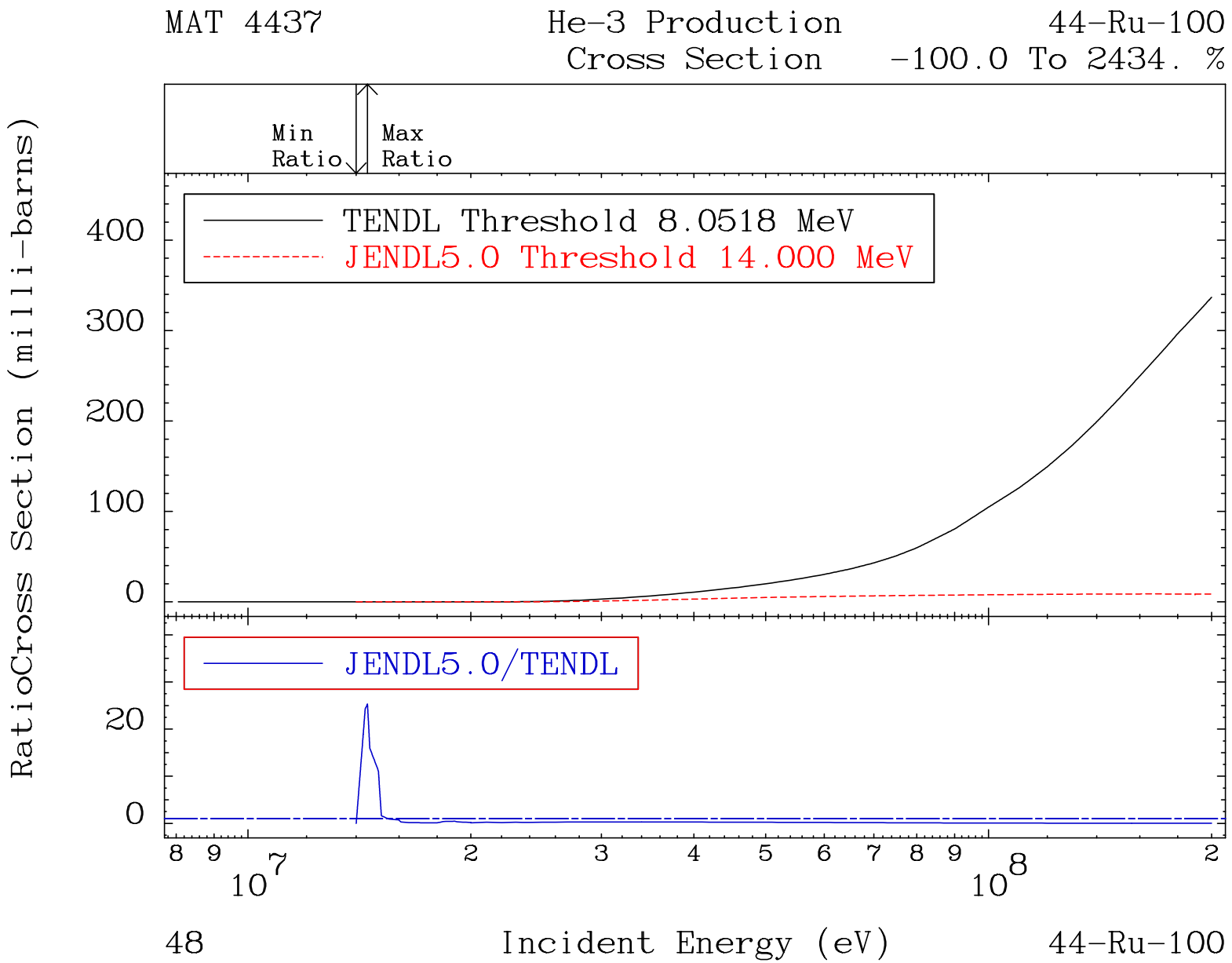

MAT 4437
Dpa total (eV-barns)
44-Ru-100
Cross Section -99.92 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
43
44-Ru-100

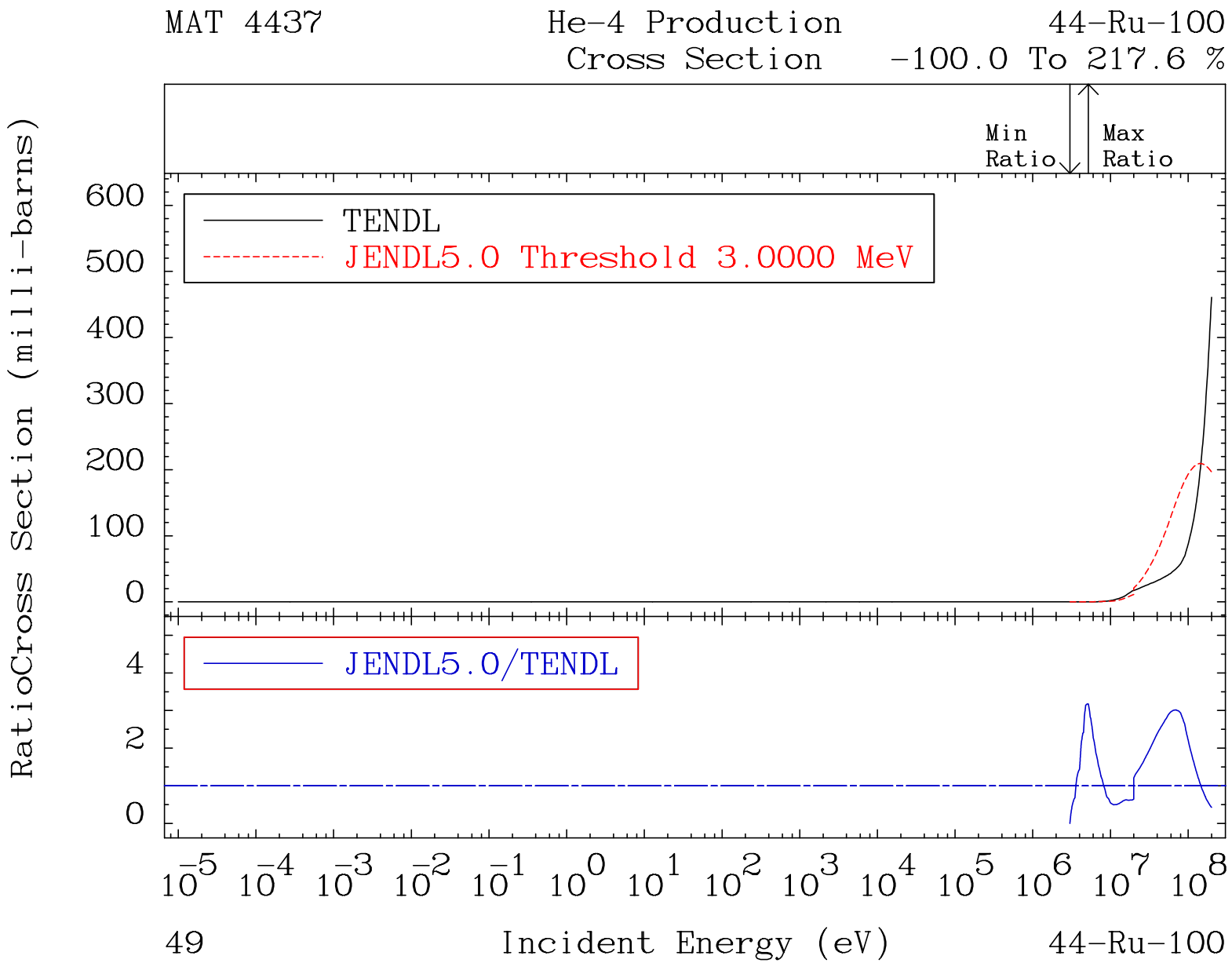

MAT 4437
Dpa elastic (mt2)
Cross Section
44-Ru-100
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 613.09 eV
CENDL3.2 Threshold 618.69 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
44
44-Ru-100

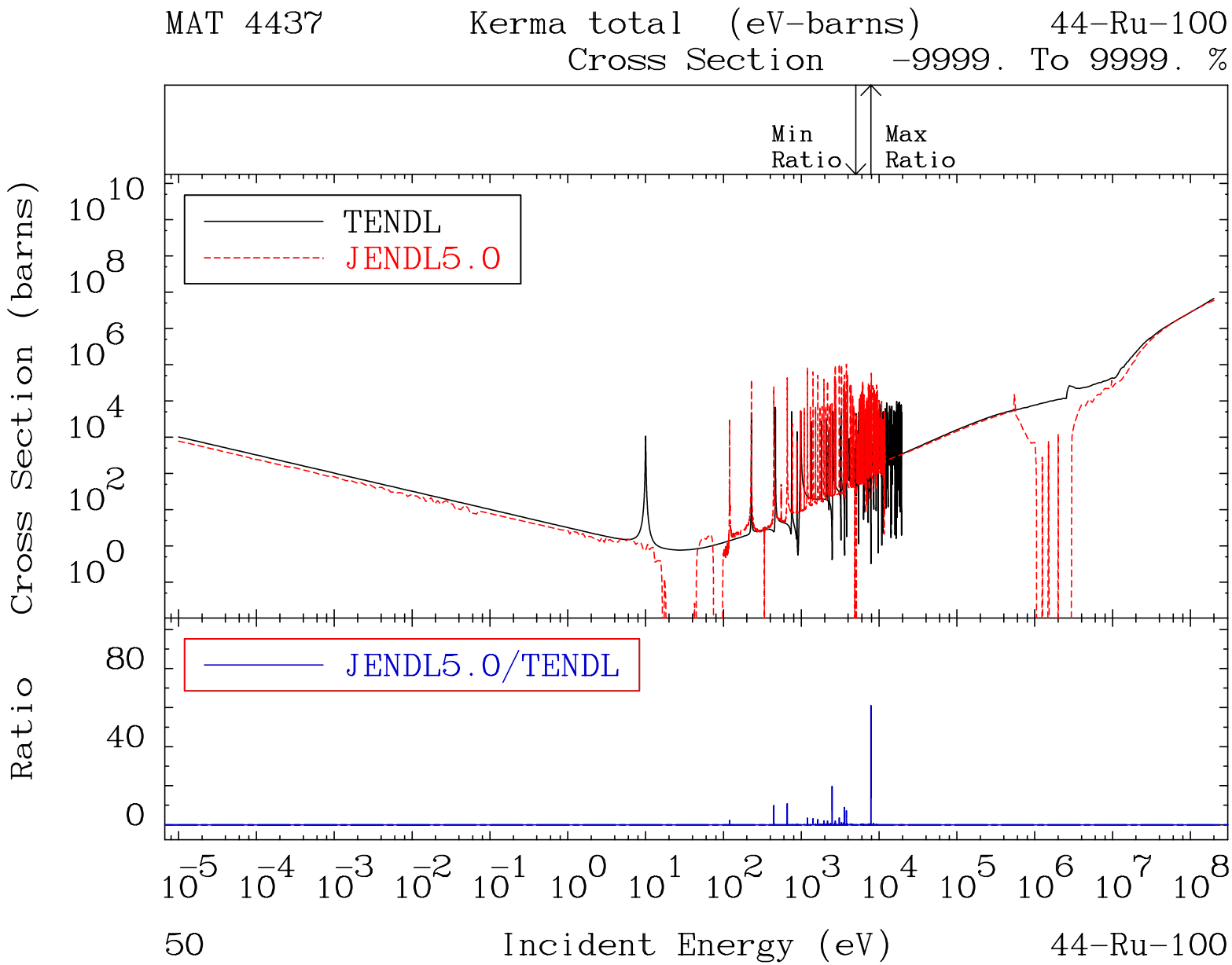

MAT 4437
Dpa inelastic (mt51-91)
44-Ru-100
Cross Section
-37.33 To 226.3 %
Min Ratio
Max Ratio
TENDL Threshold 550.00 keV
CENDL3.2 Threshold 544.95 keV
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
45
44-Ru-100

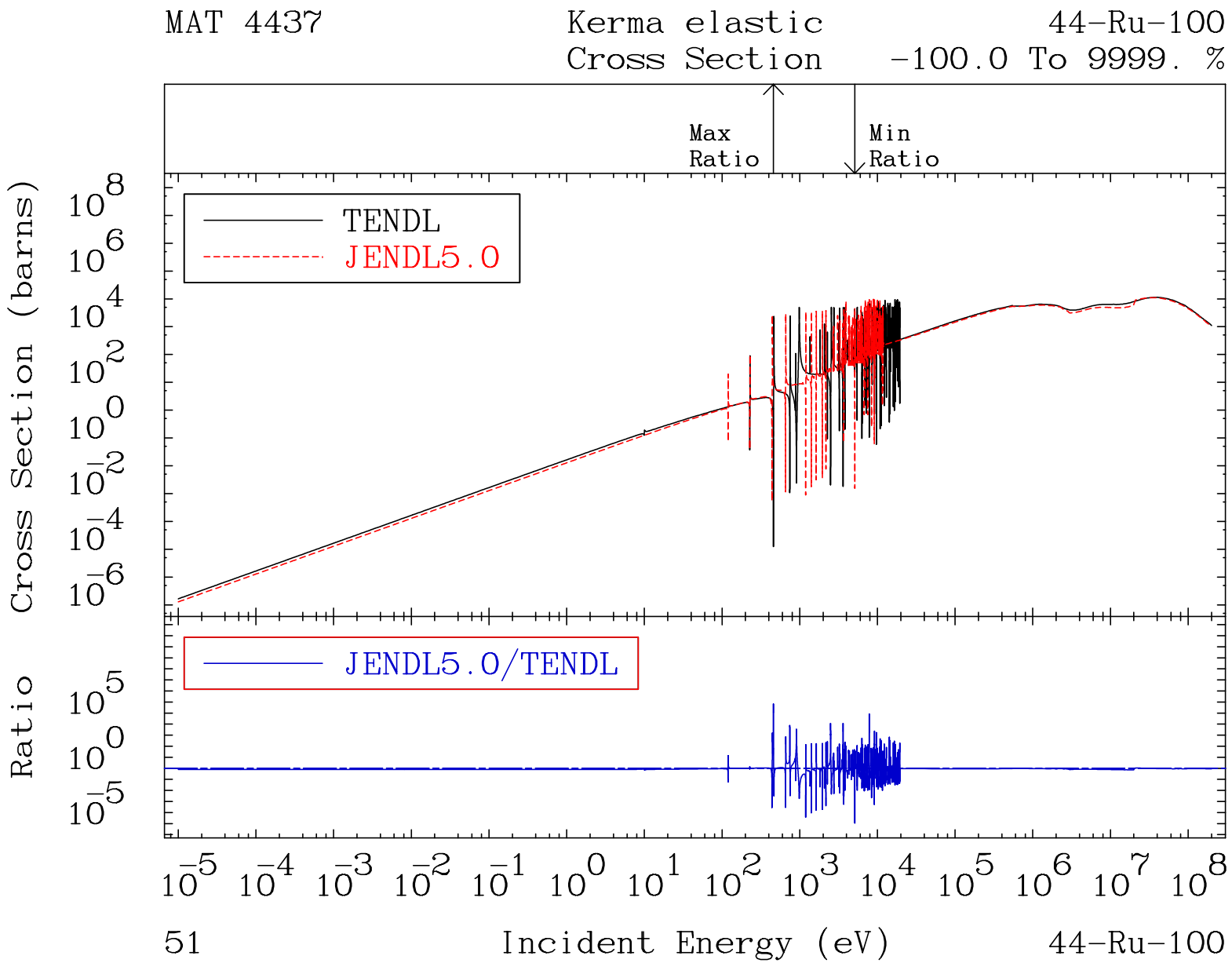

MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
44-Ru-100

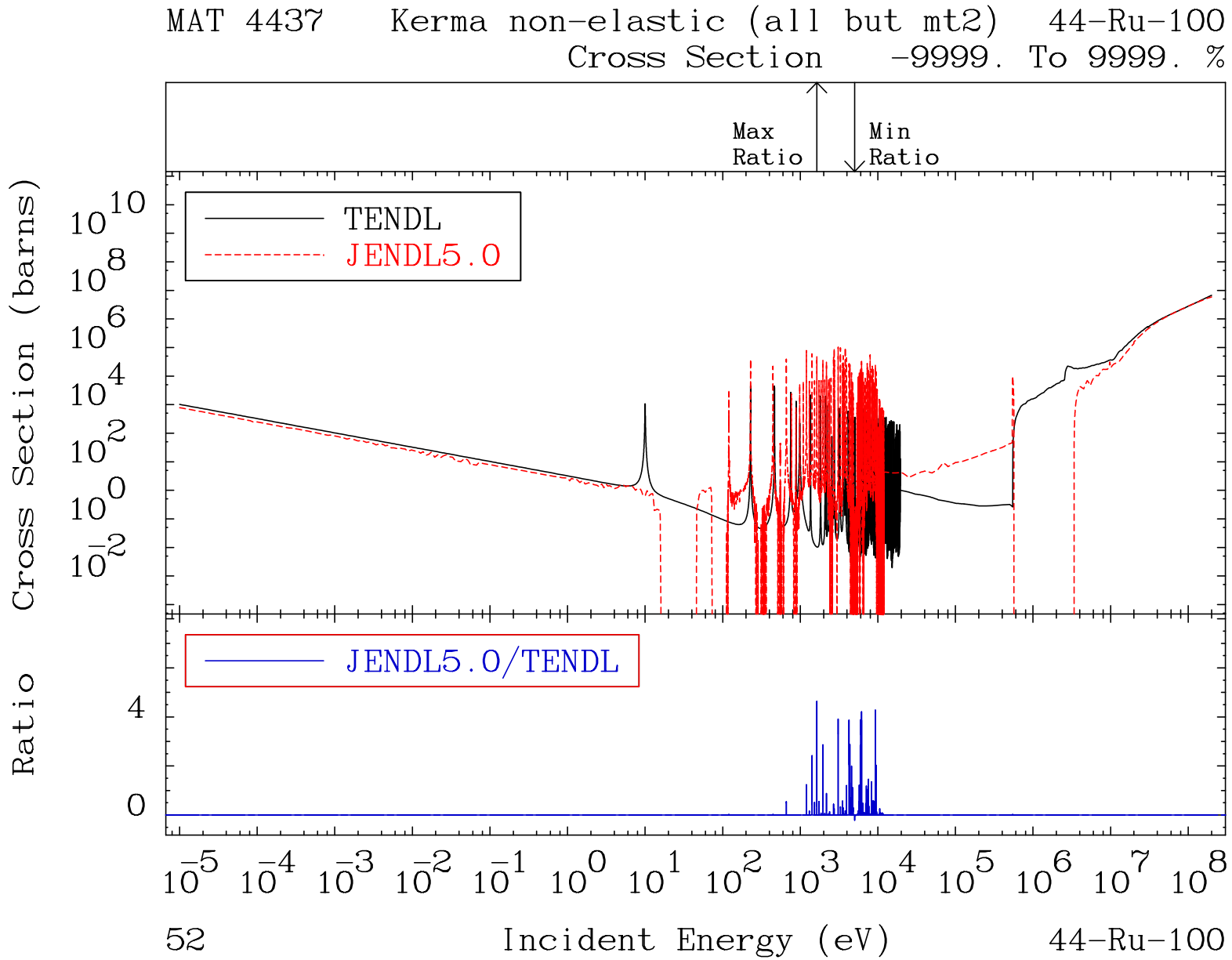

MAT 4437
Tritium Production
Cross Section
44-Ru-100
-100.0 To 3708. %
Max
Ratio
TENDL Threshold 9.7713 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
44-Ru-100

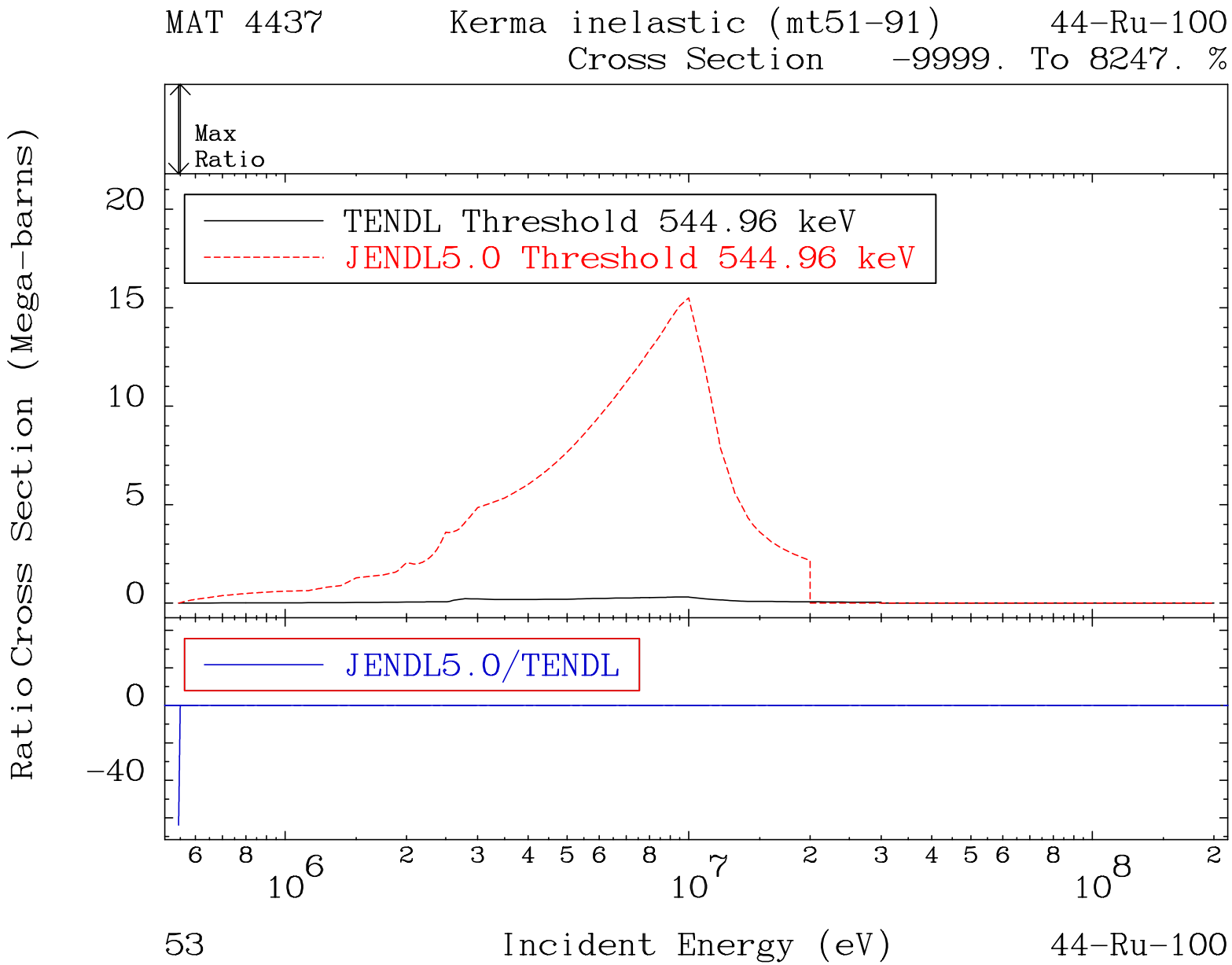

MAT 4437
He-3 Production
Cross Section
44-Ru-100
-100.0 To 2434. %
Min Ratio
Max Ratio
TENDL Threshold 8.0518 MeV
JENDL5.0 Threshold 14.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
20
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
48
Incident Energy (eV)
44-Ru-100

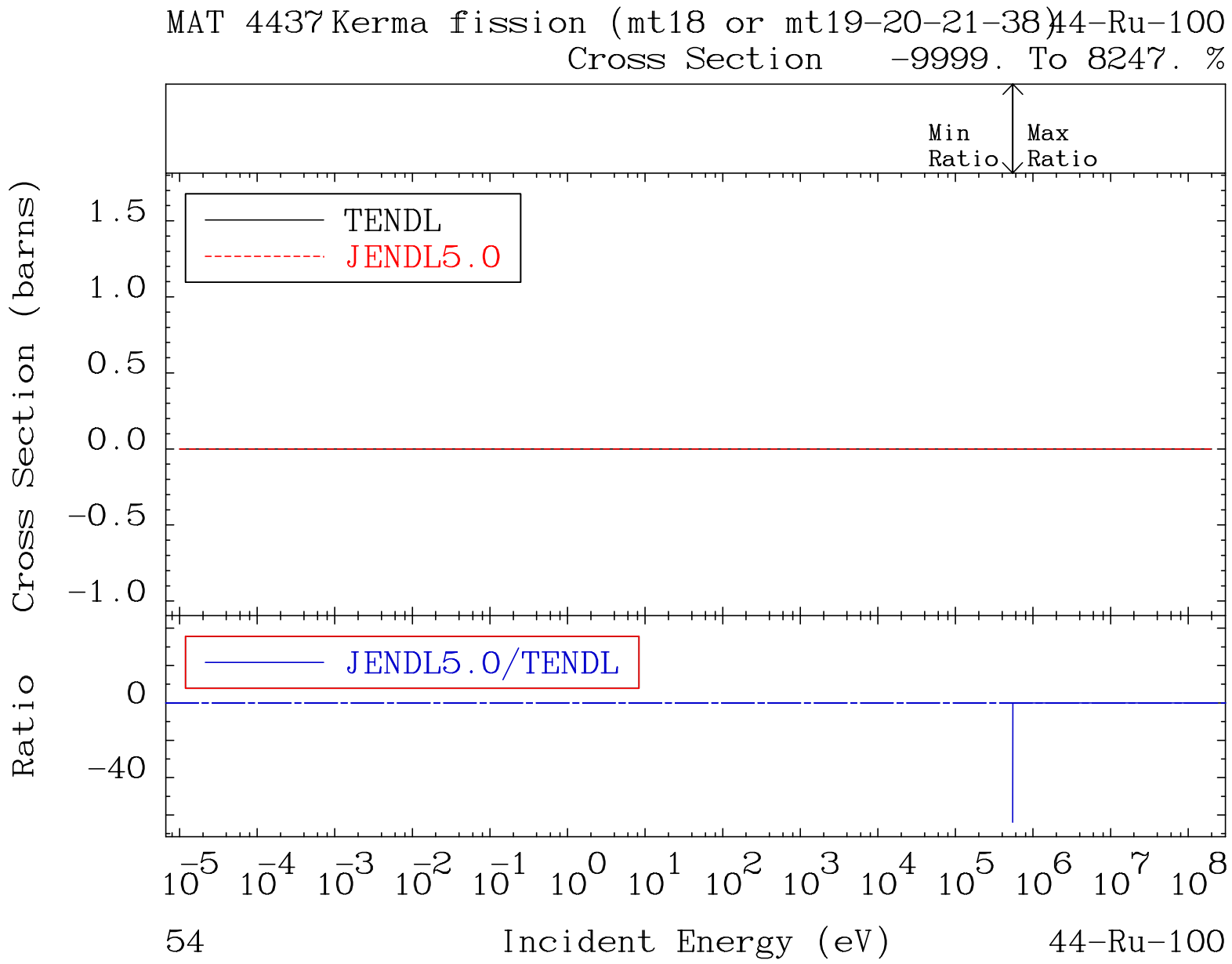

MAT 4437
He-4 Production
Cross Section
44-Ru-100
-100.0 To 217.6 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 3.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
44-Ru-100

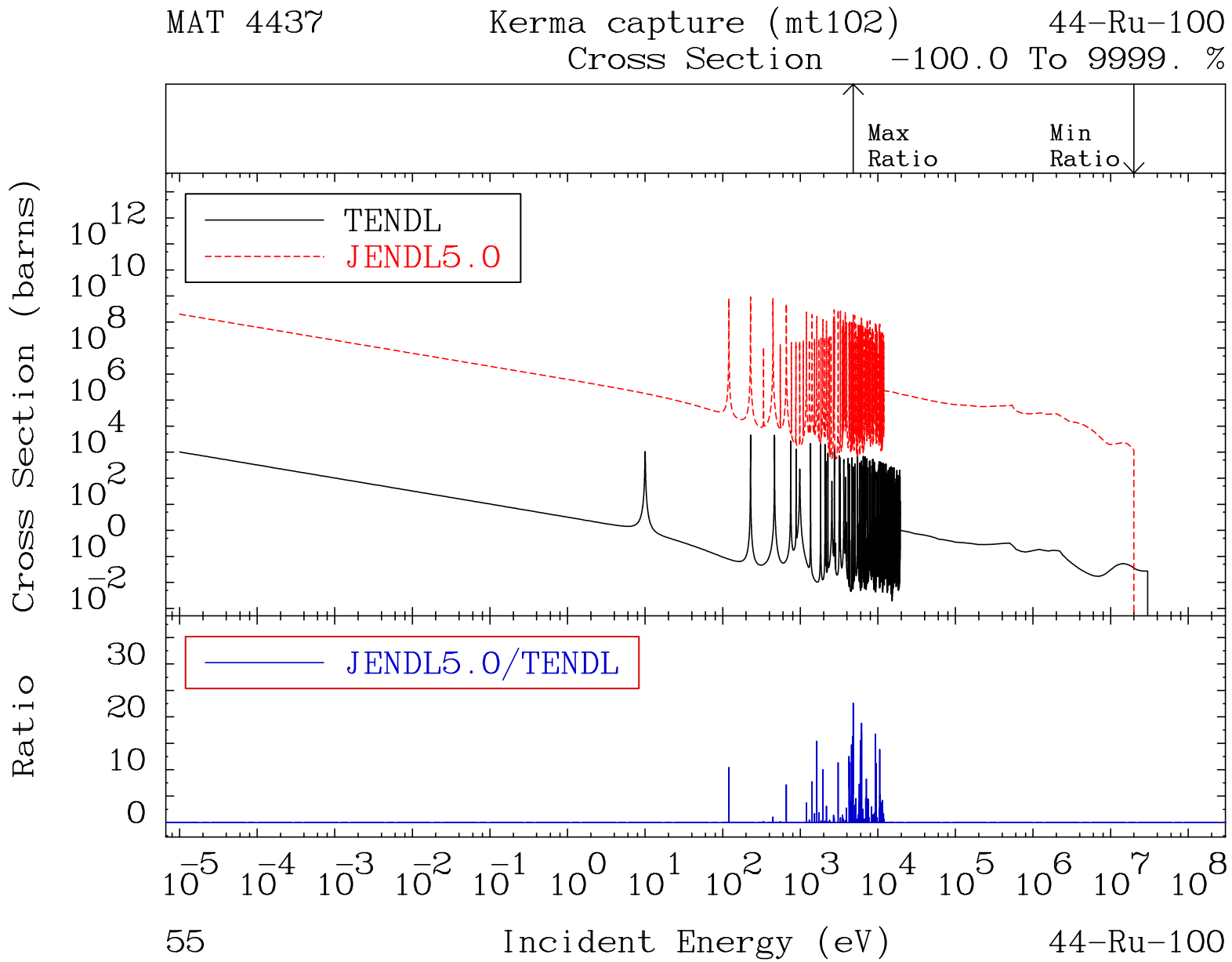

MAT 4437
Kerma total (eV-barns)
44-Ru-100
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
44-Ru-100

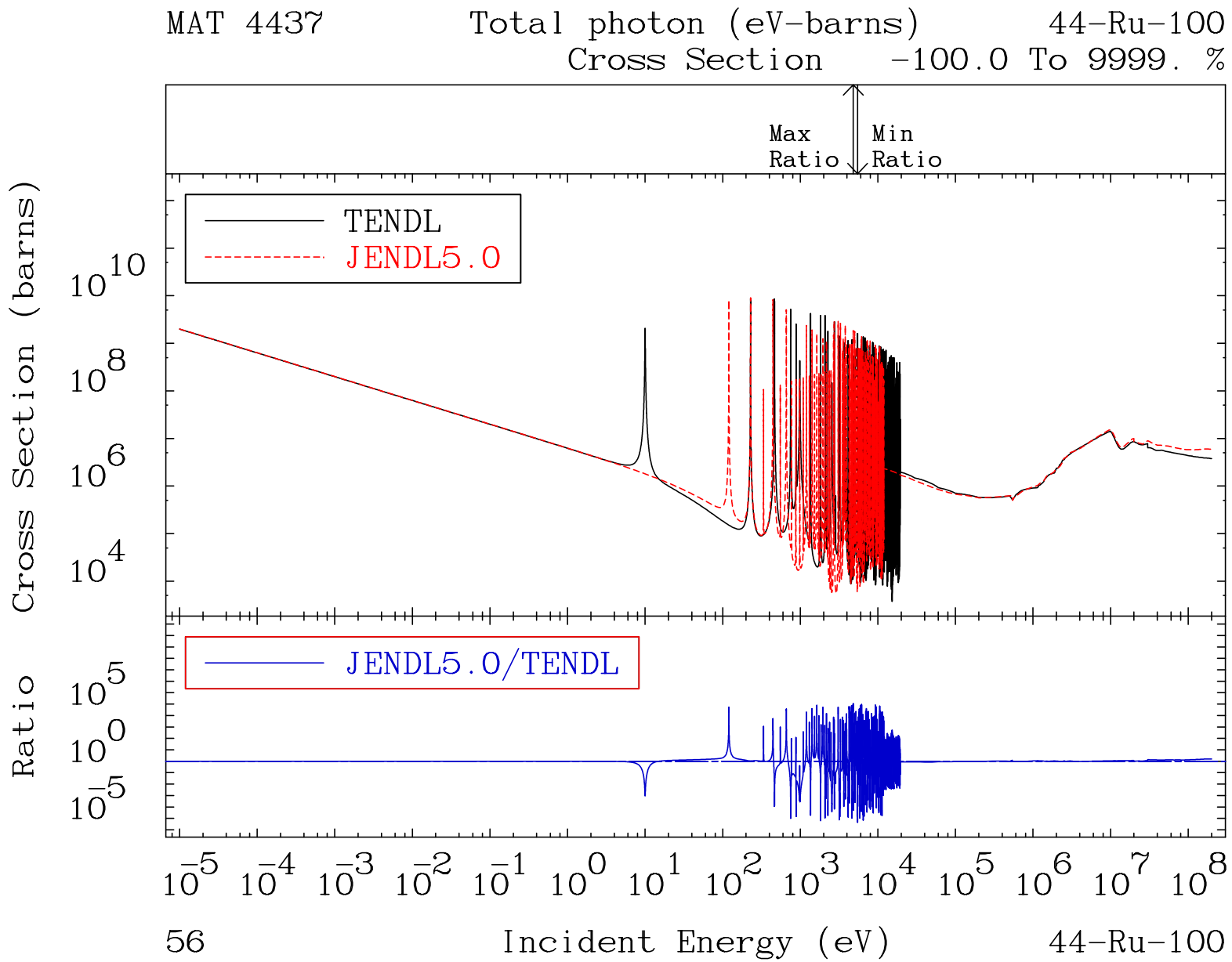

MAT 4437
Kerma elastic
Cross Section
44-Ru-100
-100.0 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
44-Ru-100

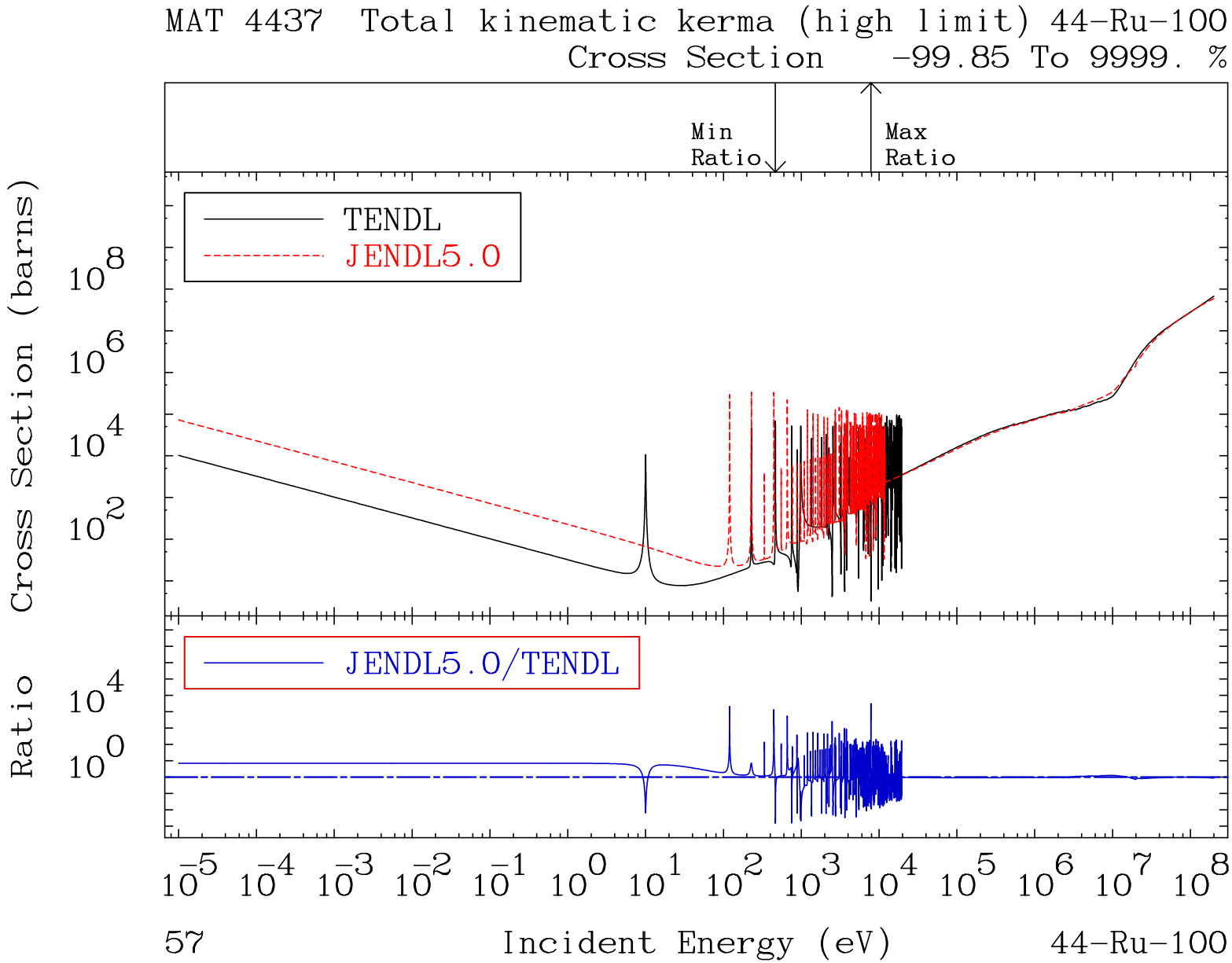

MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100
Cross Section -9999. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
44-Ru-100

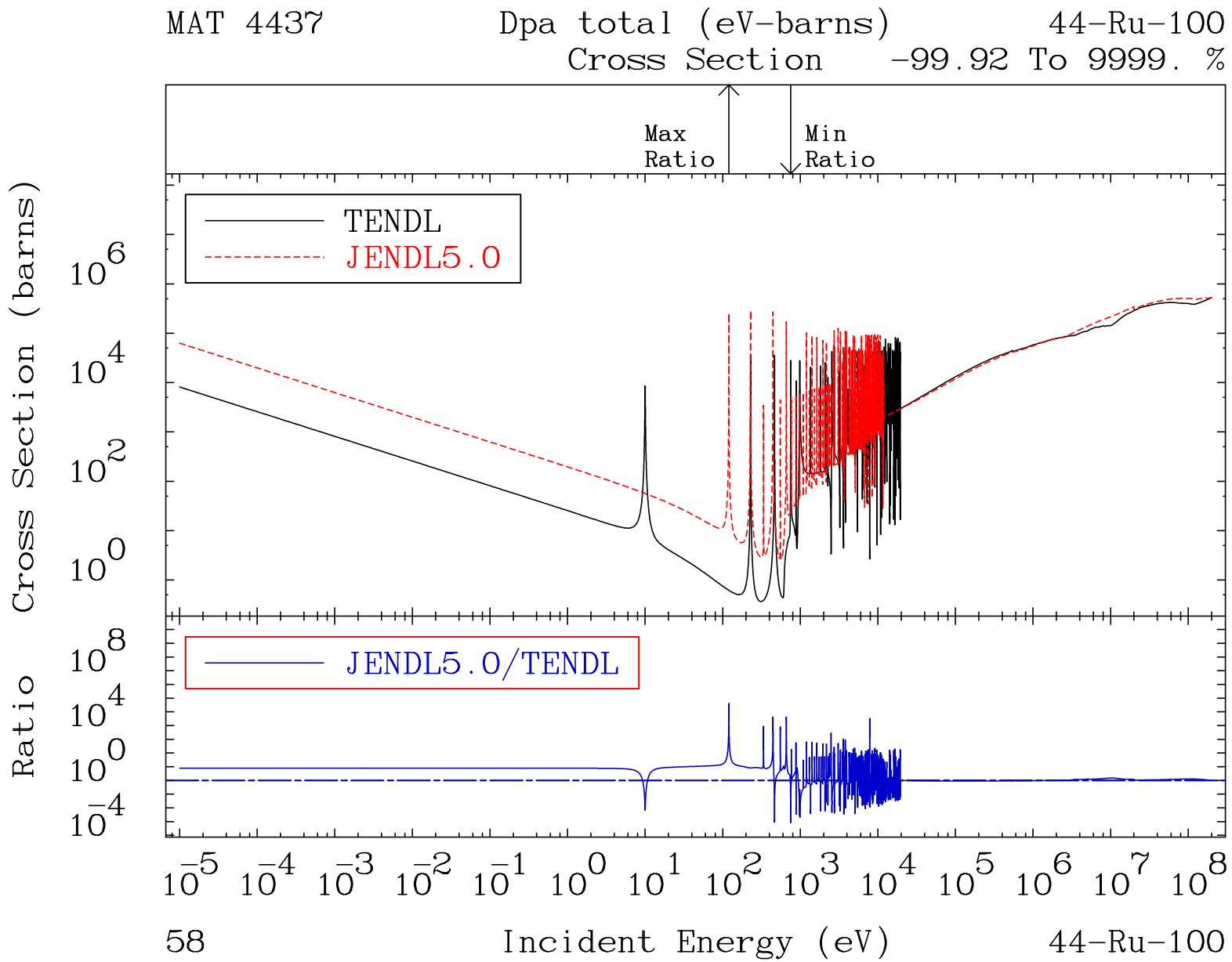

MAT 4437
Kerma inelastic (mt51-91)
44-Ru-100
Cross Section -9999. To 8247. %
Max
Ratio
TENDL Threshold 544.96 keV
JENDL5.0 Threshold 544.96 keV
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
20
15
10
5
0
0
-40
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
53
Incident Energy (eV)
44-Ru-100

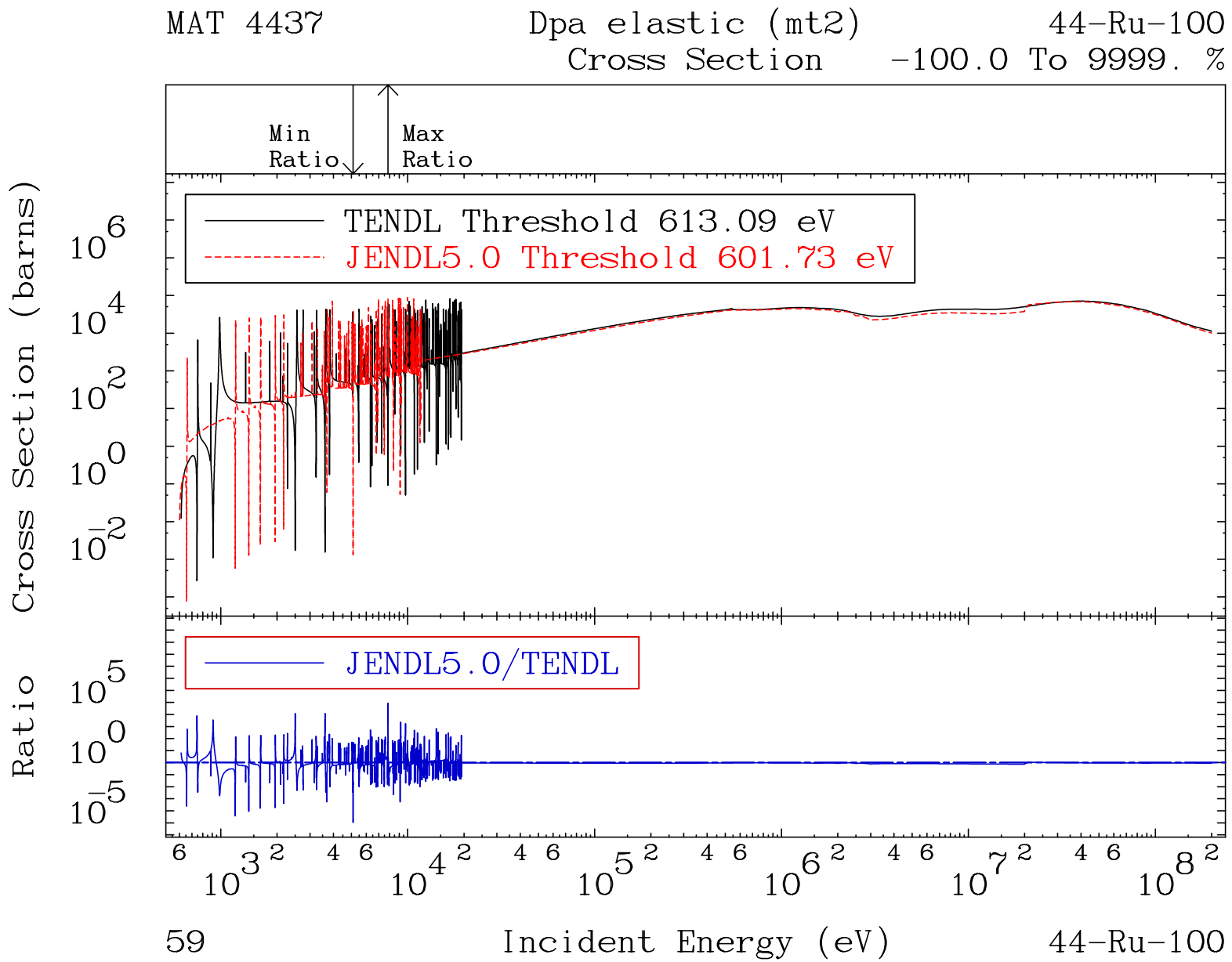

MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100
Cross Section -9999. To 8247. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
0
-40
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
54
Incident Energy (eV)
44-Ru-100

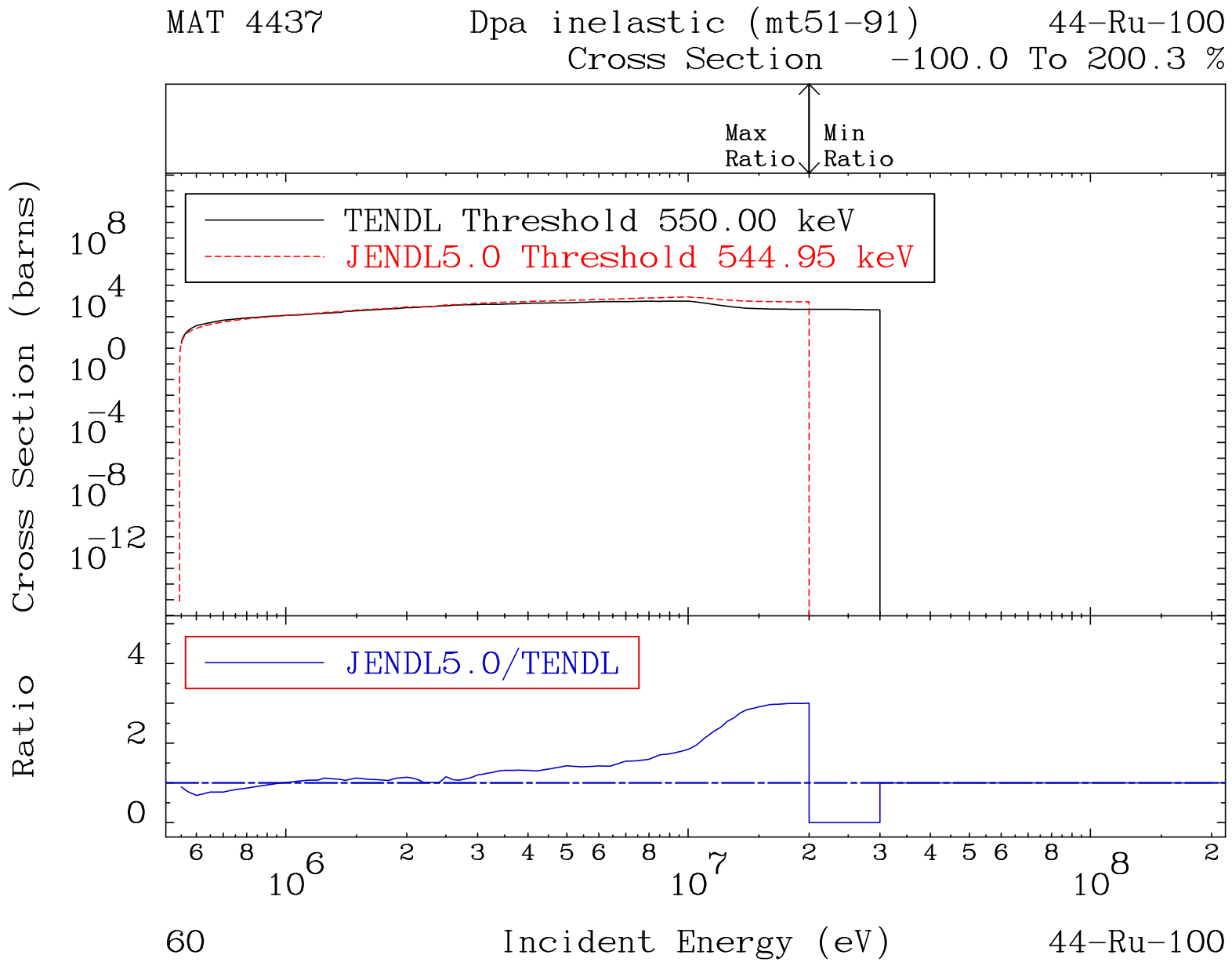

MAT 4437
Kerma capture (mt102)
44-Ru-100
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
55
44-Ru-100

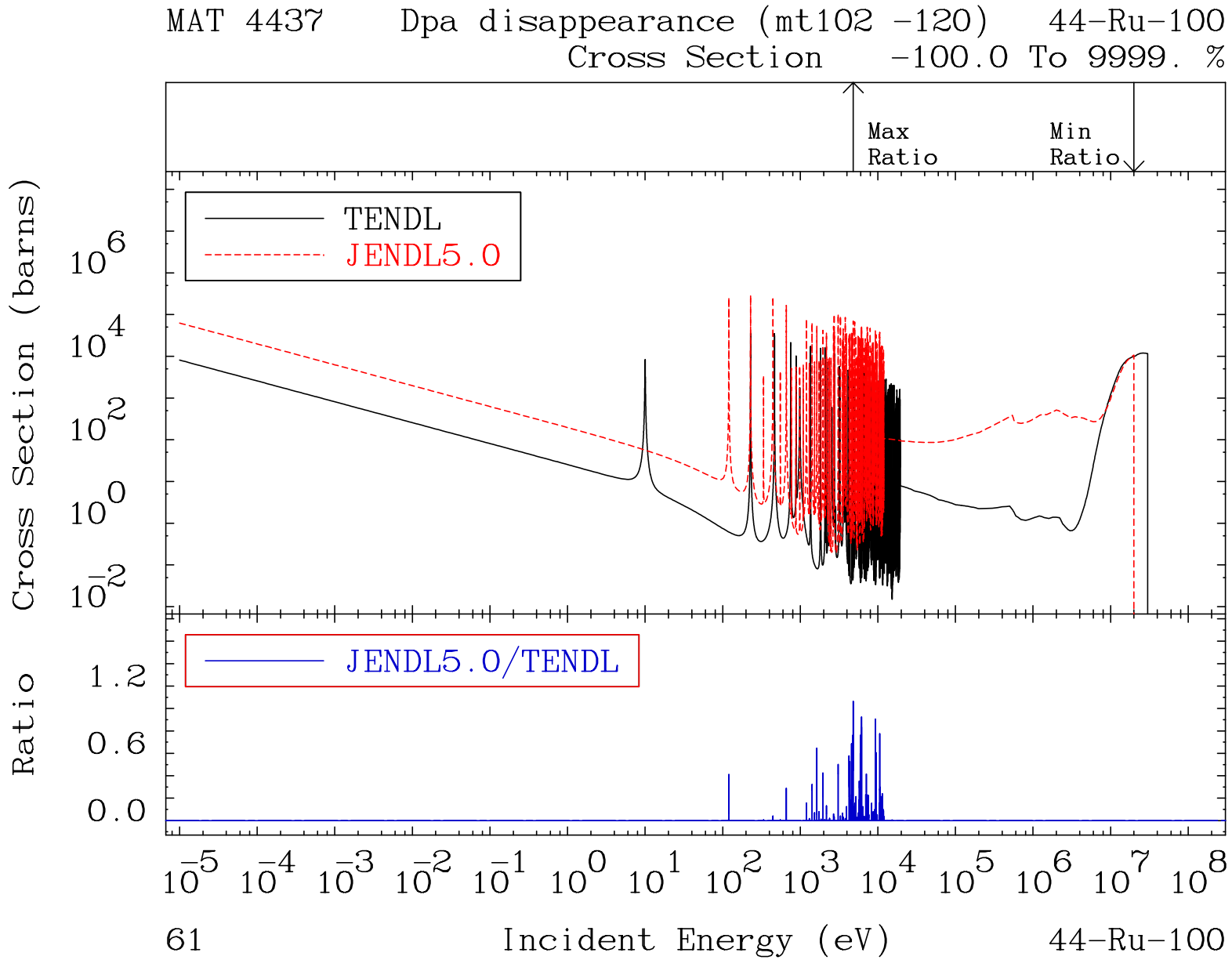

MAT 4437
Total photon (eV-barns)
44-Ru-100
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
44-Ru-100

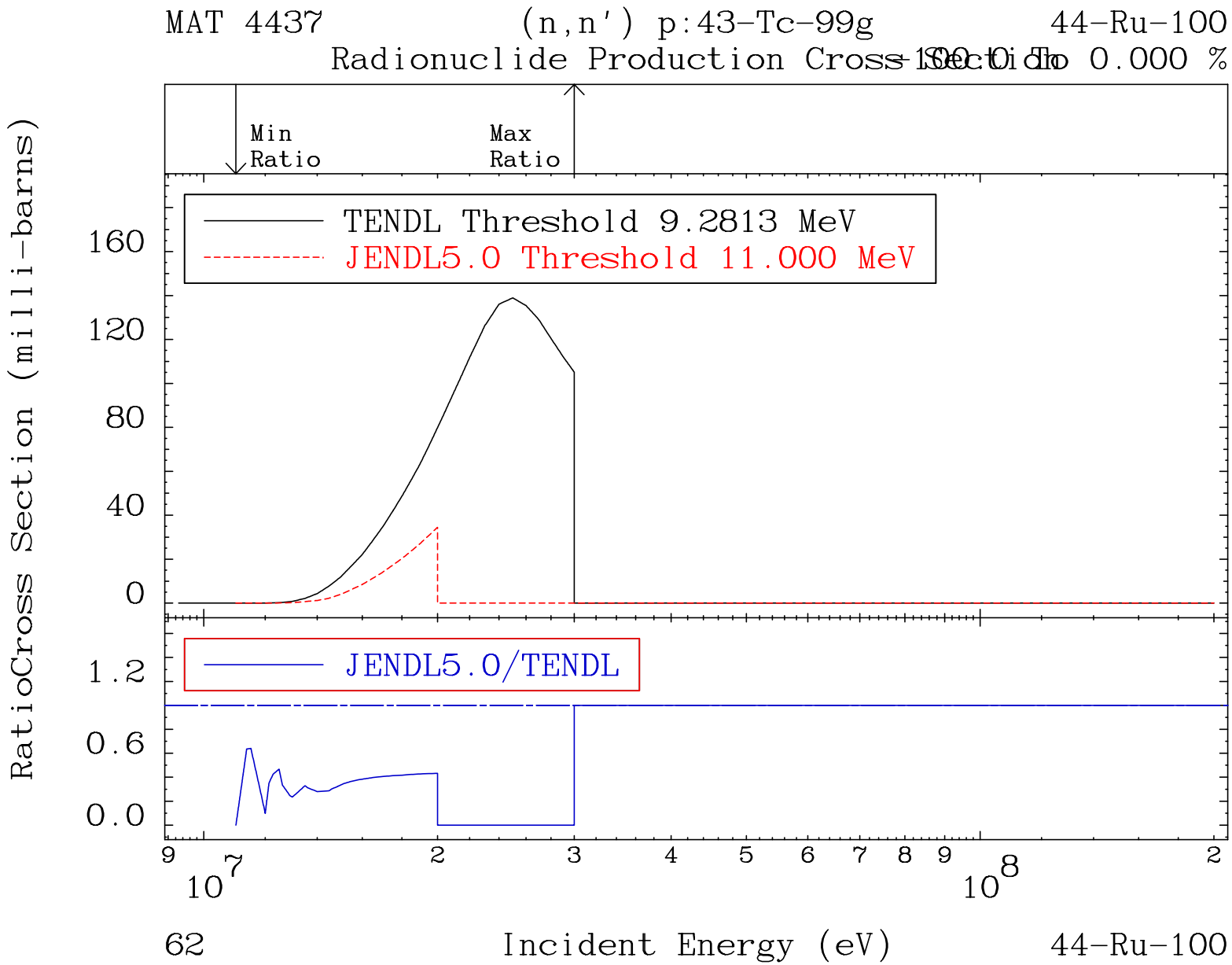

MAT 4437 Total kinematic kerma (high limit) 44-Ru-100
Cross Section -99.85 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
44-Ru-100

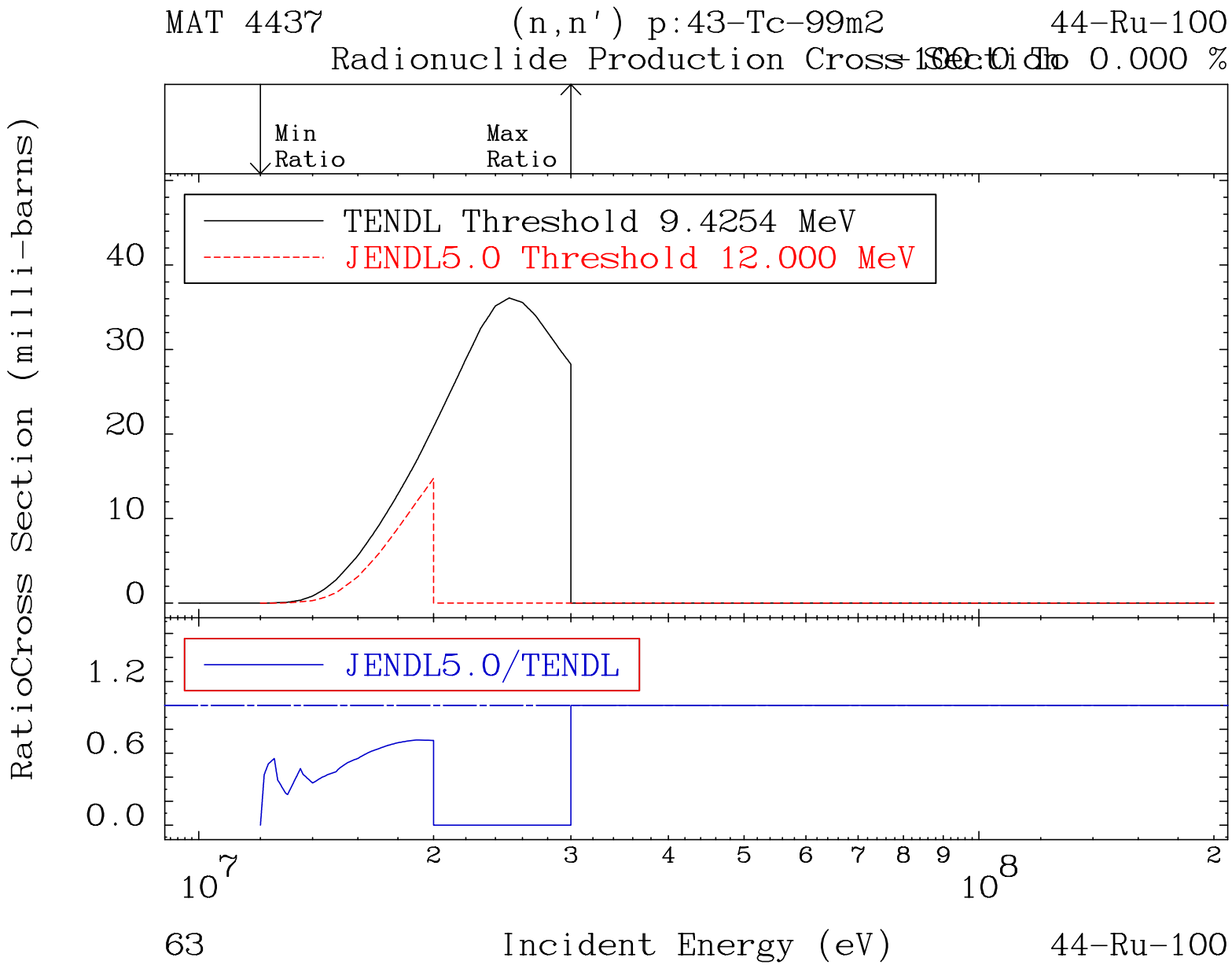

MAT 4437
Dpa total (eV-barns)
44-Ru-100
Cross Section
-99.92 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
58
Incident Energy (eV)
44-Ru-100

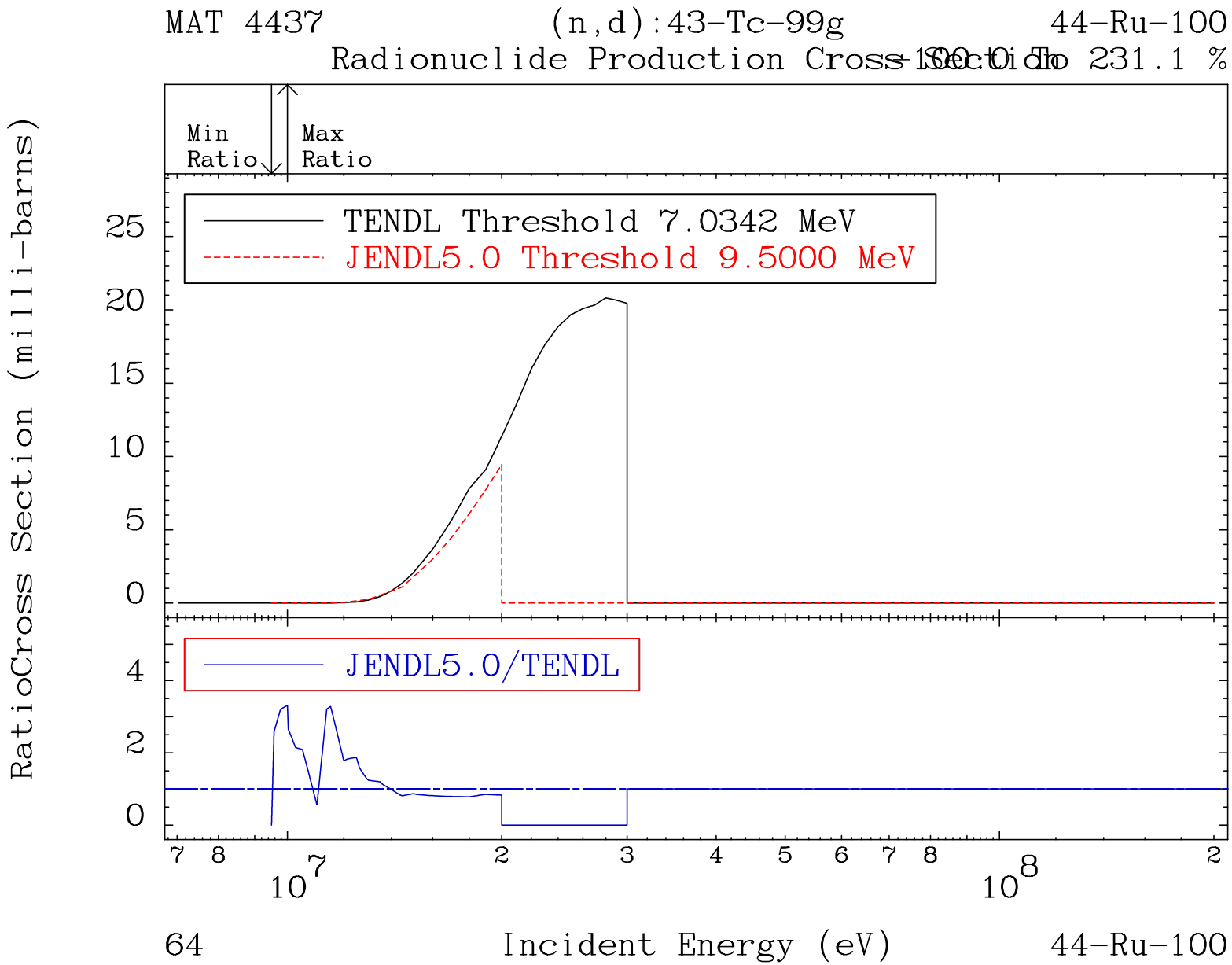

MAT 4437
Dpa elastic (mt2)
Cross Section
44-Ru-100
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 613.09 eV
JENDL5.0 Threshold 601.73 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
44-Ru-100

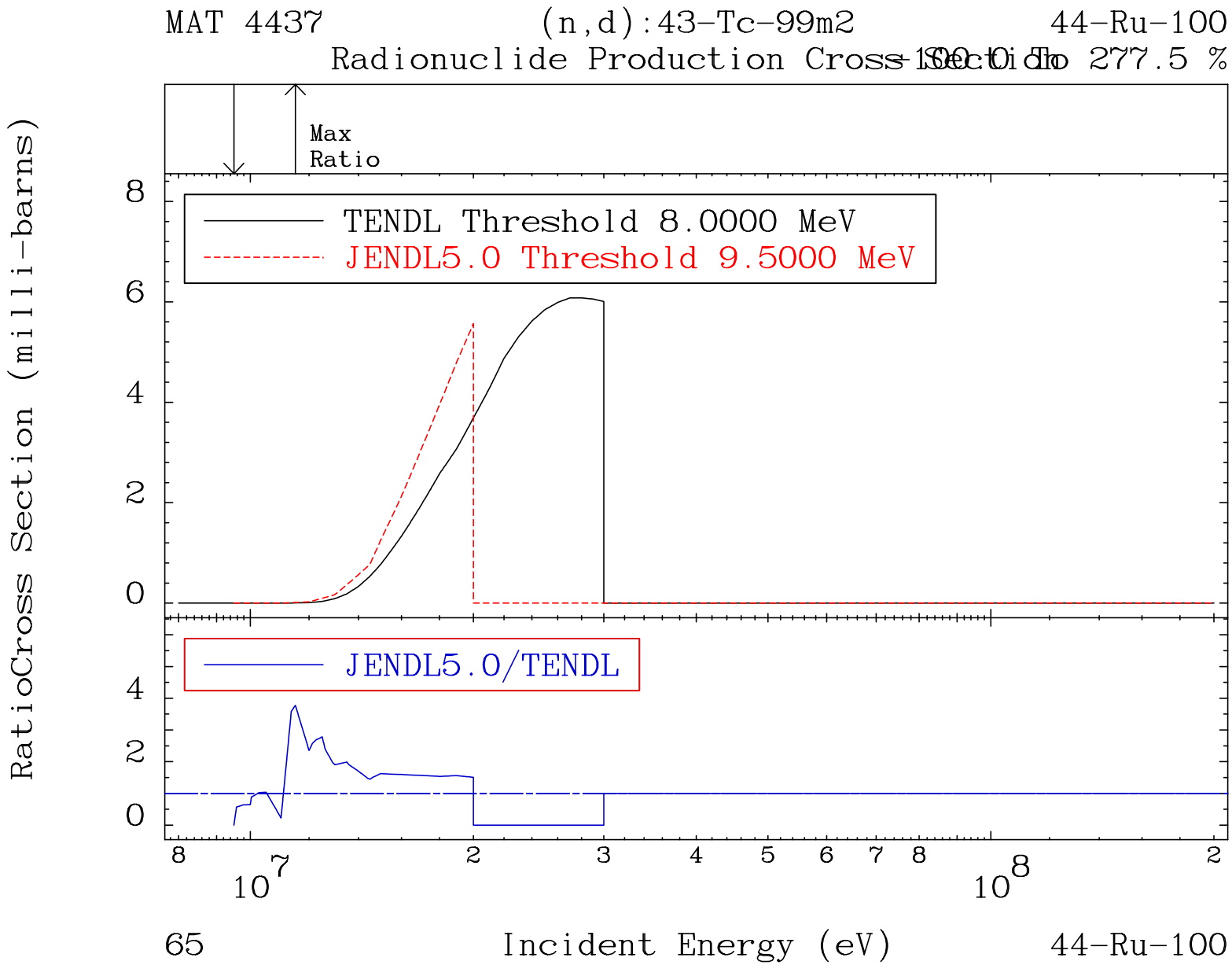

MAT 4437
Dpa inelastic (mt51-91)
44-Ru-100
Cross Section
-100.0 To 200.3 %
Max Ratio
Min Ratio
TENDL Threshold 550.00 keV
JENDL5.0 Threshold 544.95 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
44-Ru-100

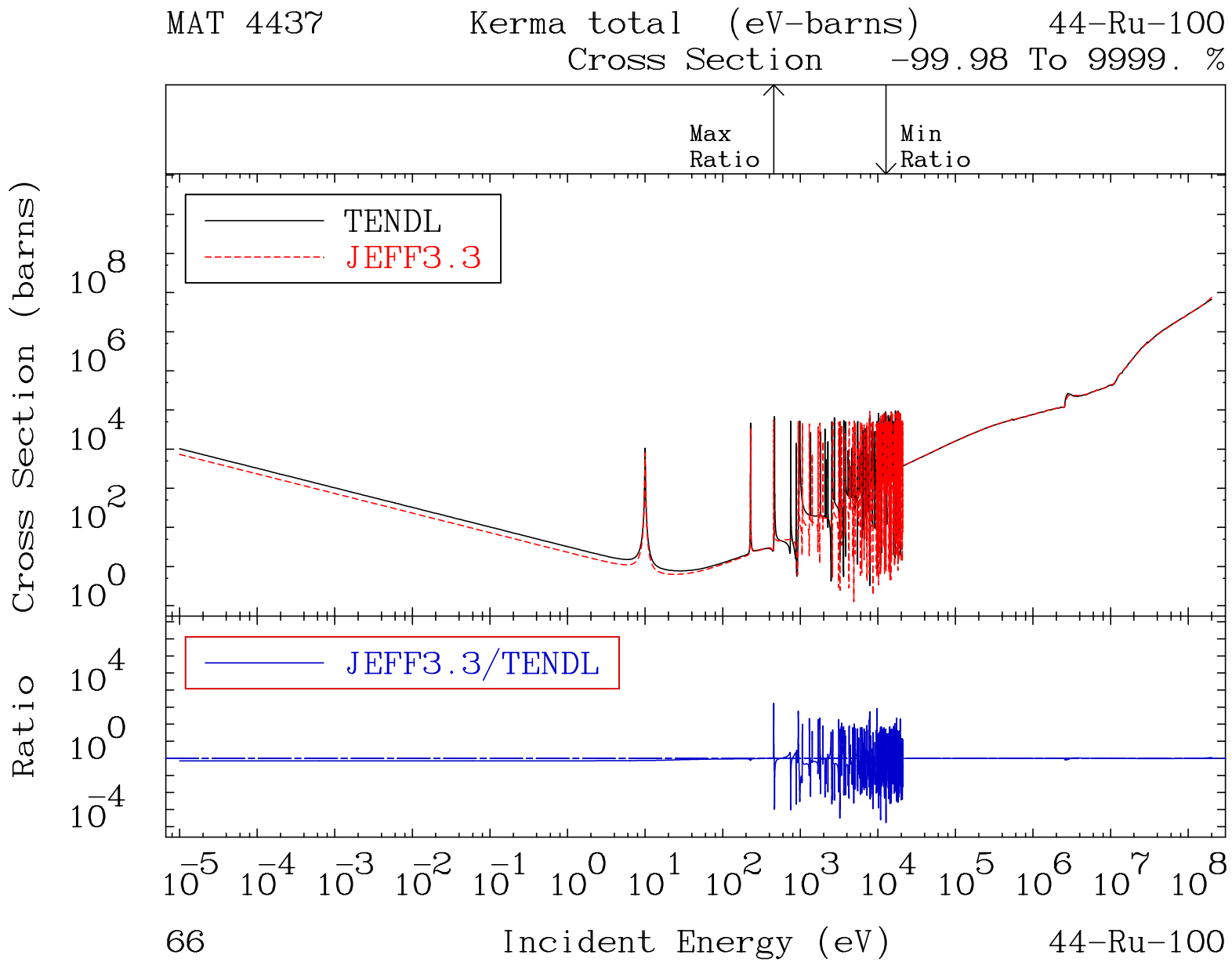

MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
44-Ru-100

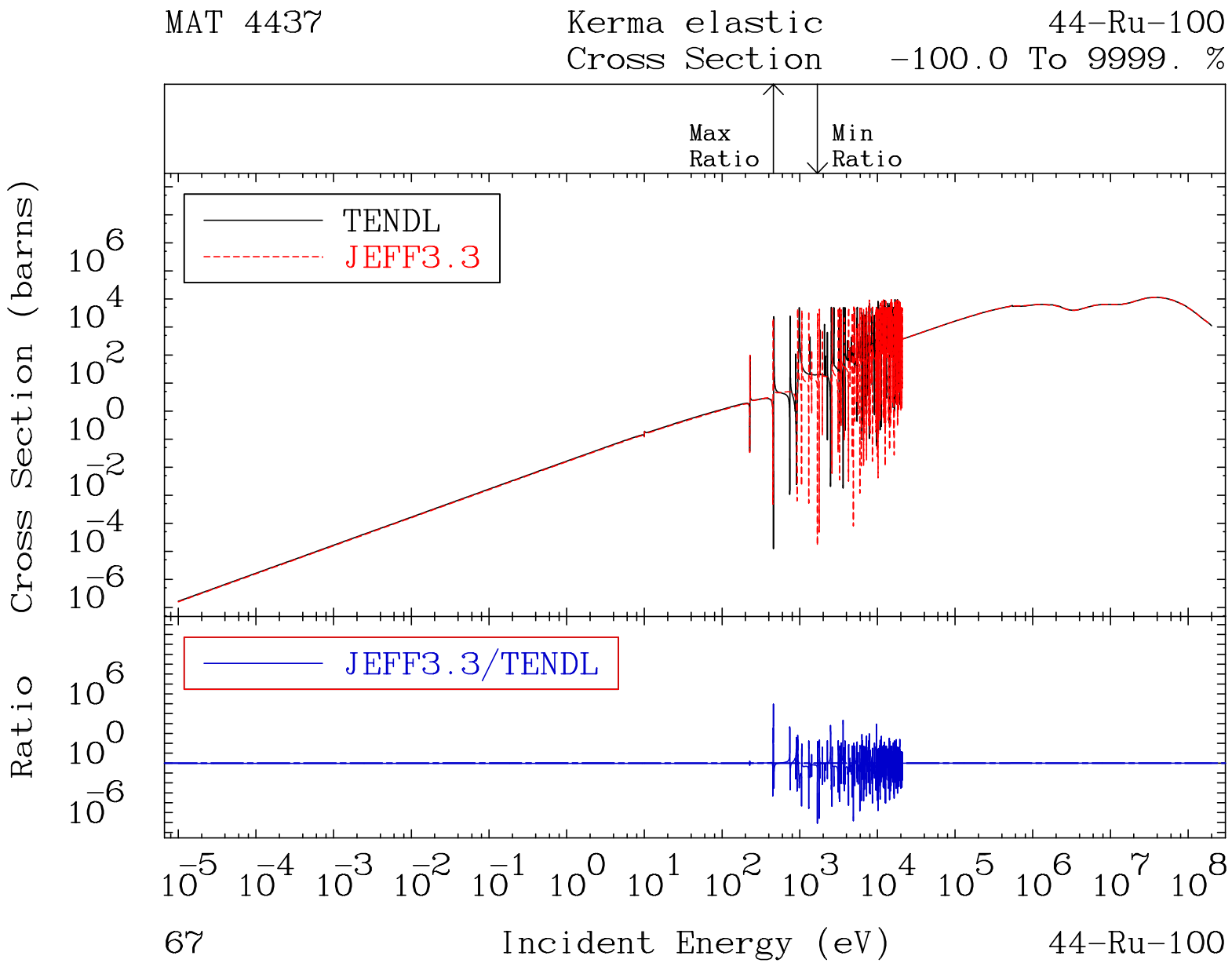

MAT 4437
(n,n') p:43-Tc-99g
44-Ru-100
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.2813 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
44-Ru-100

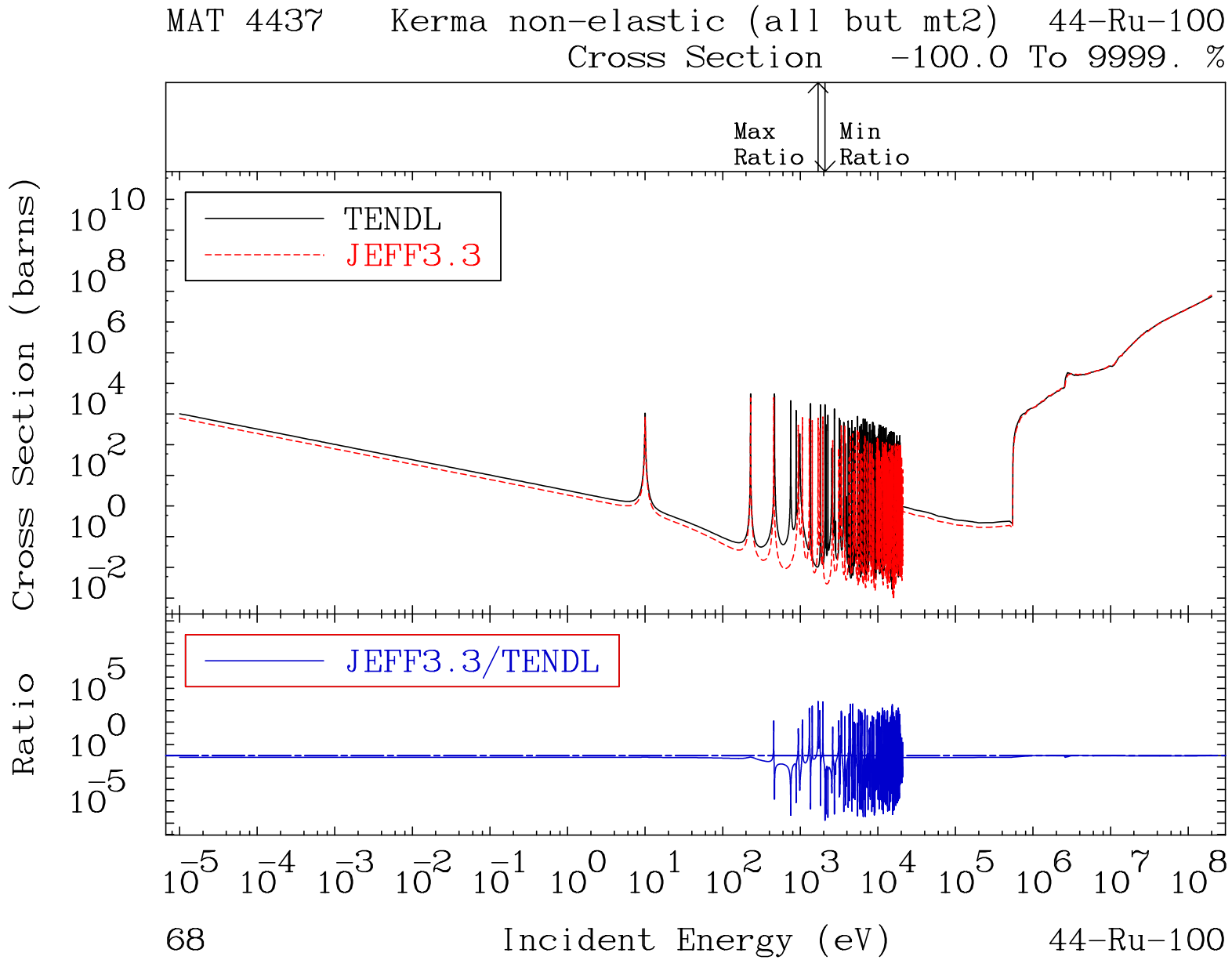

MAT 4437
(n,n') p:43-Tc-99m2
44-Ru-100
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.4254 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
44-Ru-100

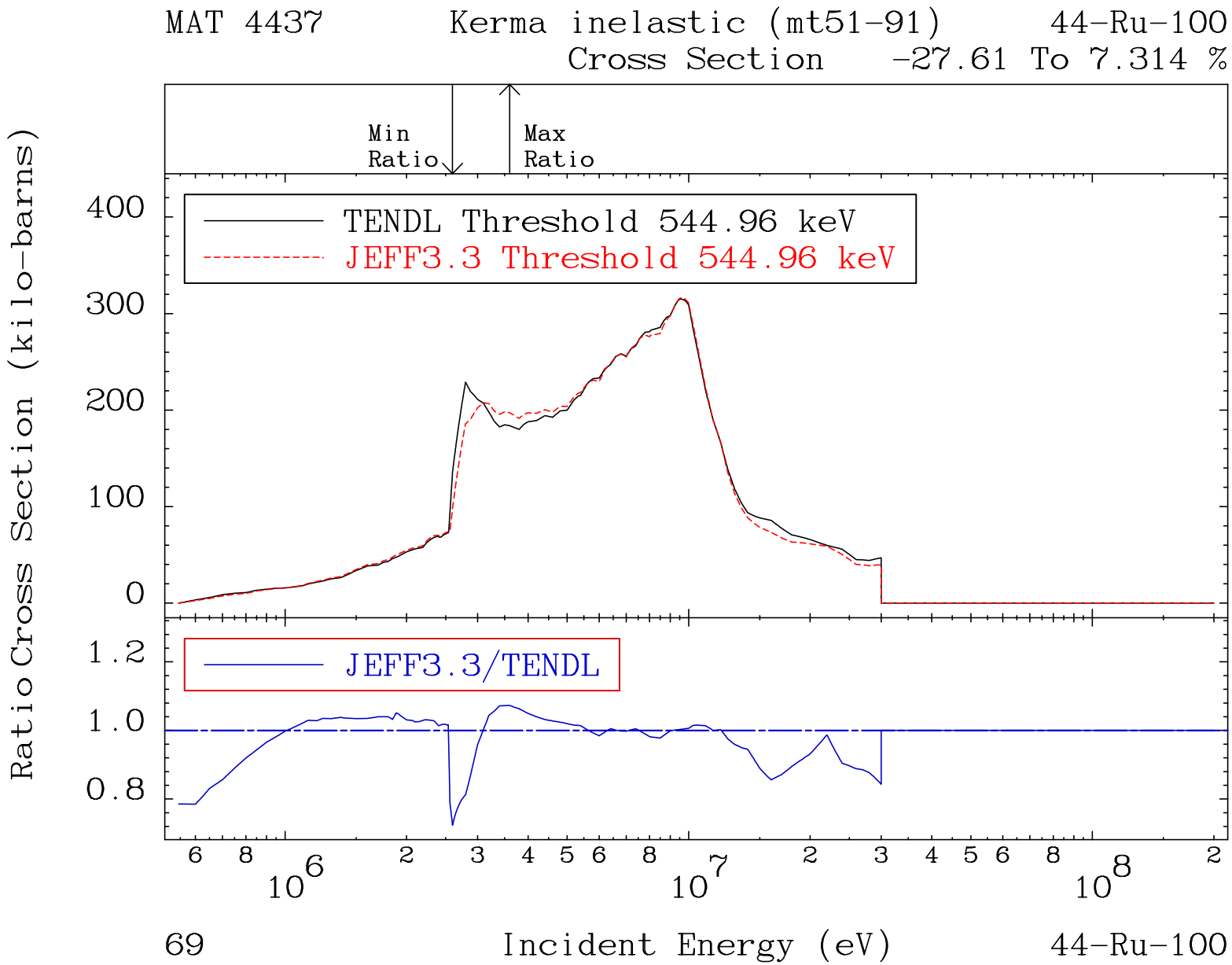

MAT 4437
(n,d):43-Tc-99g
44-Ru-100
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.0342 MeV
JENDL5.0 Threshold 9.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
64
44-Ru-100

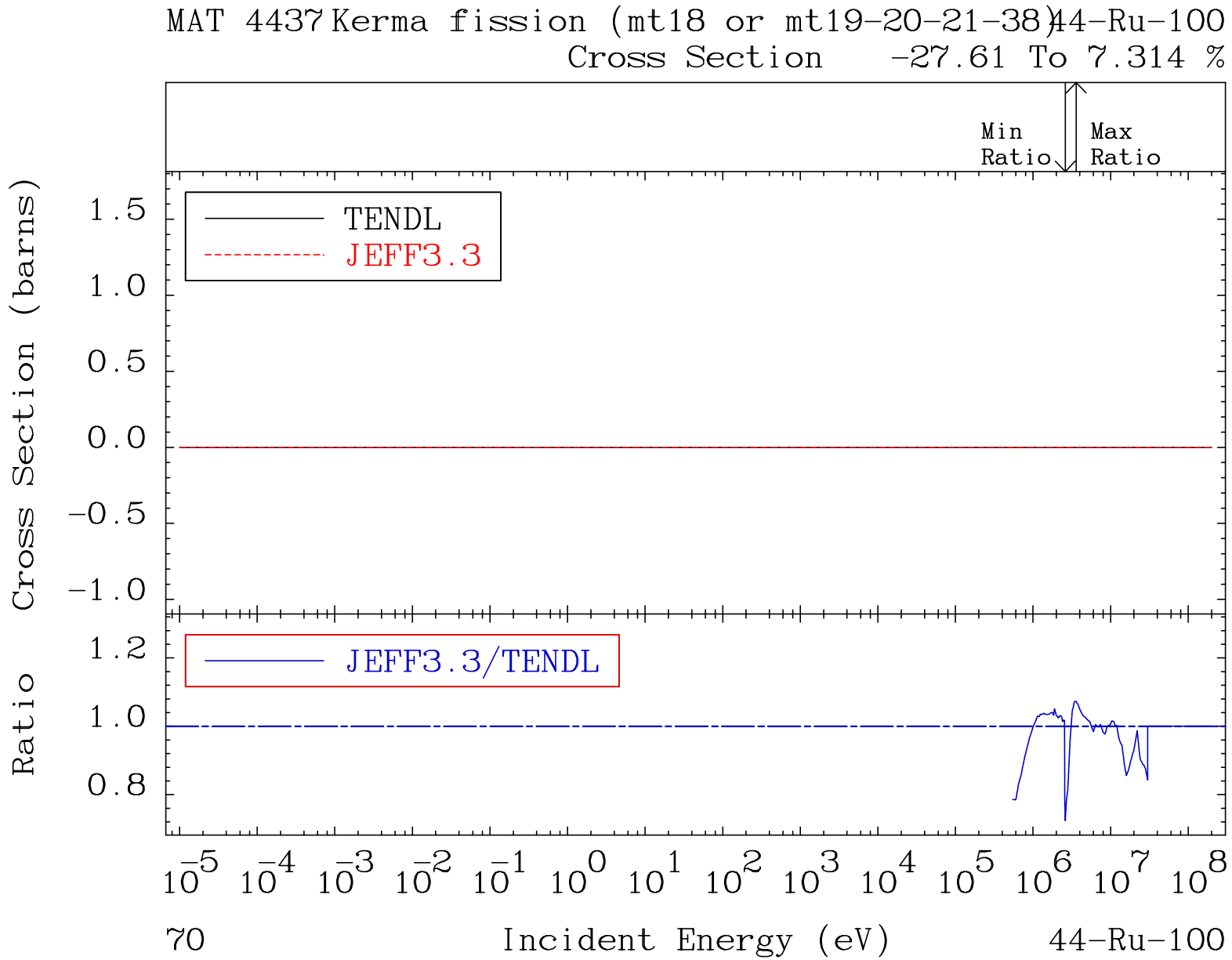

MAT 4437
(n,d):43-Tc-99m2
44-Ru-100
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.0000 MeV
JENDL5.0 Threshold 9.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
44-Ru-100

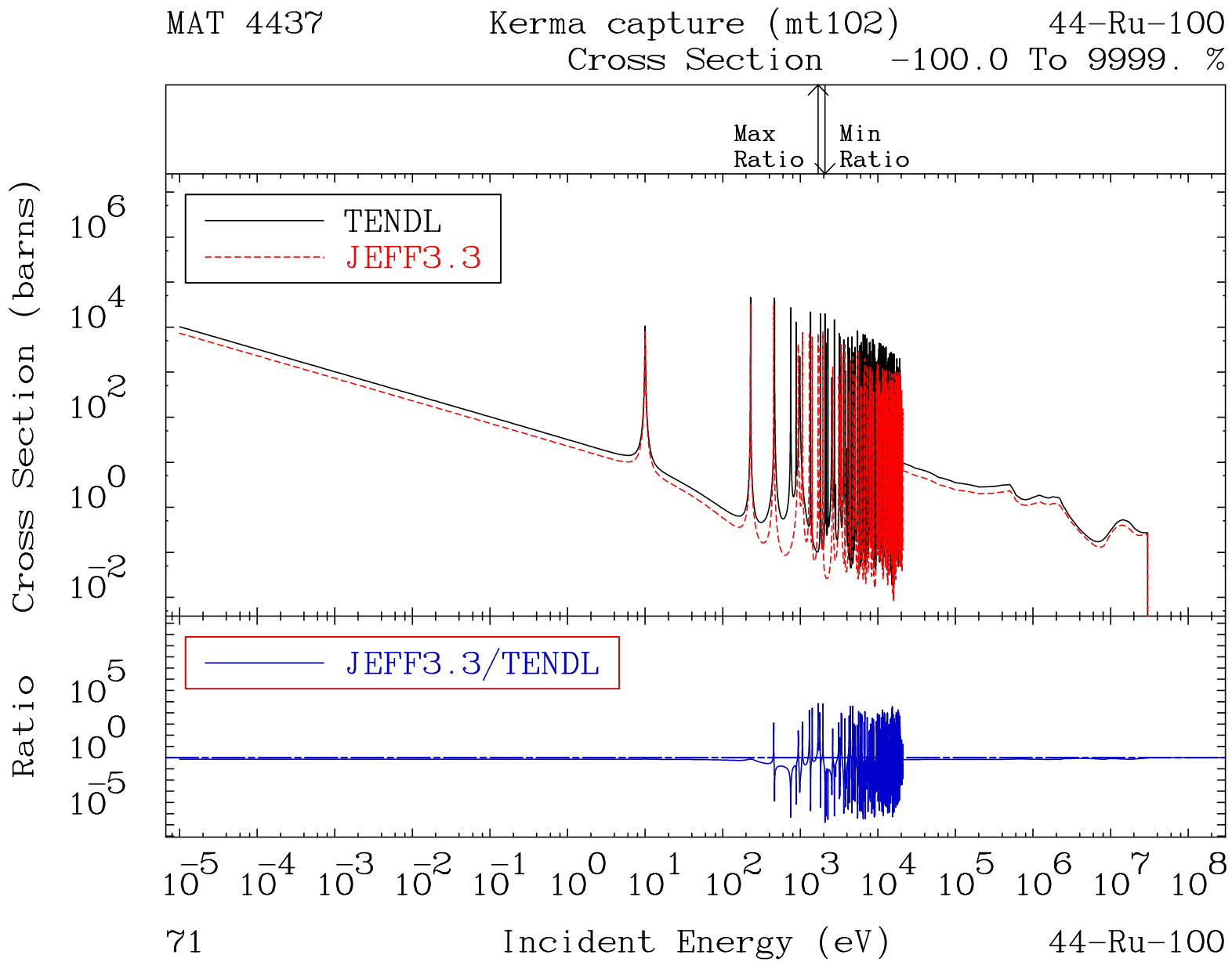

MAT 4437
Kerma total (eV-barns)
44-Ru-100
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
44-Ru-100

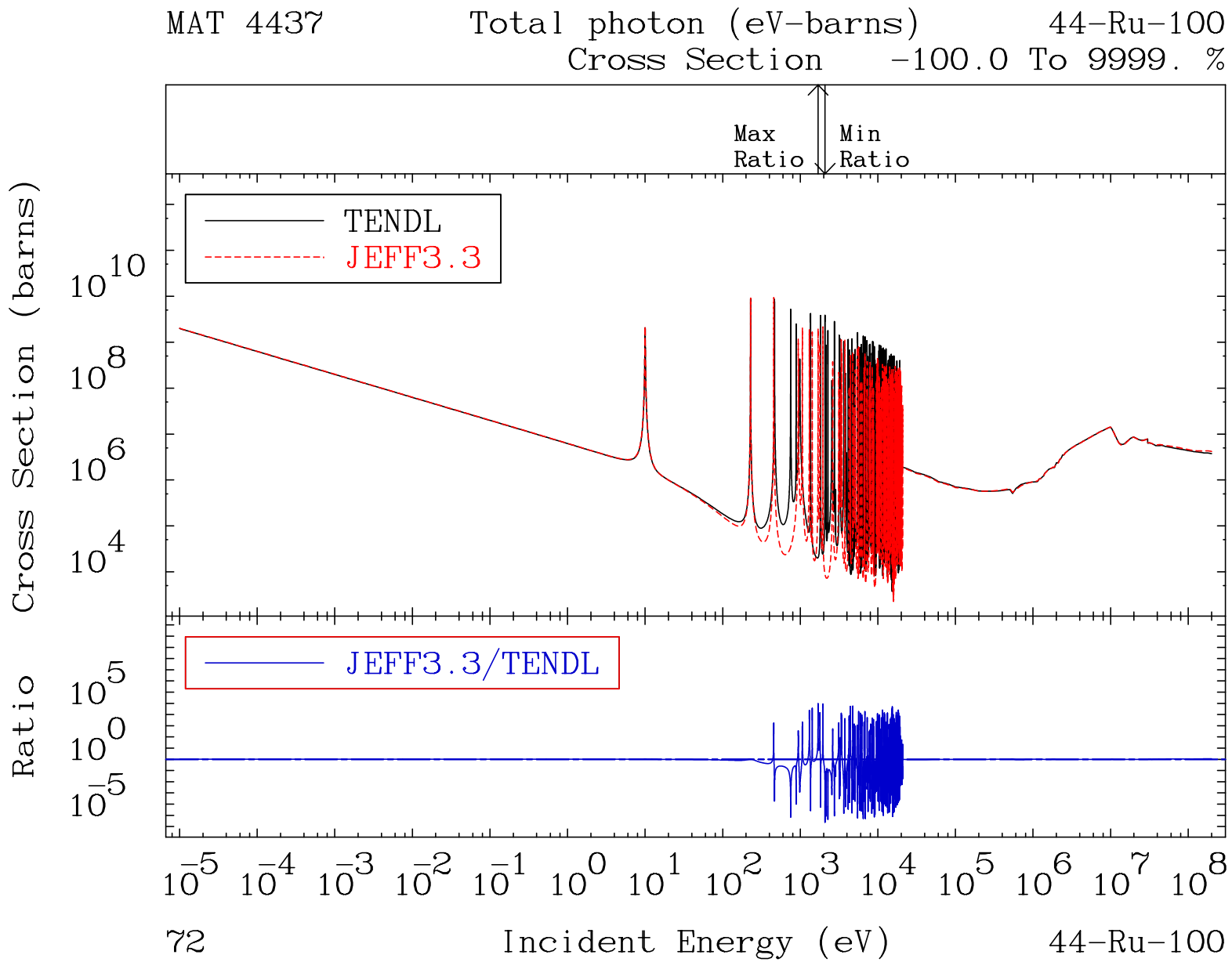

MAT 4437
Kerma elastic
Cross Section
44-Ru-100
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
44-Ru-100

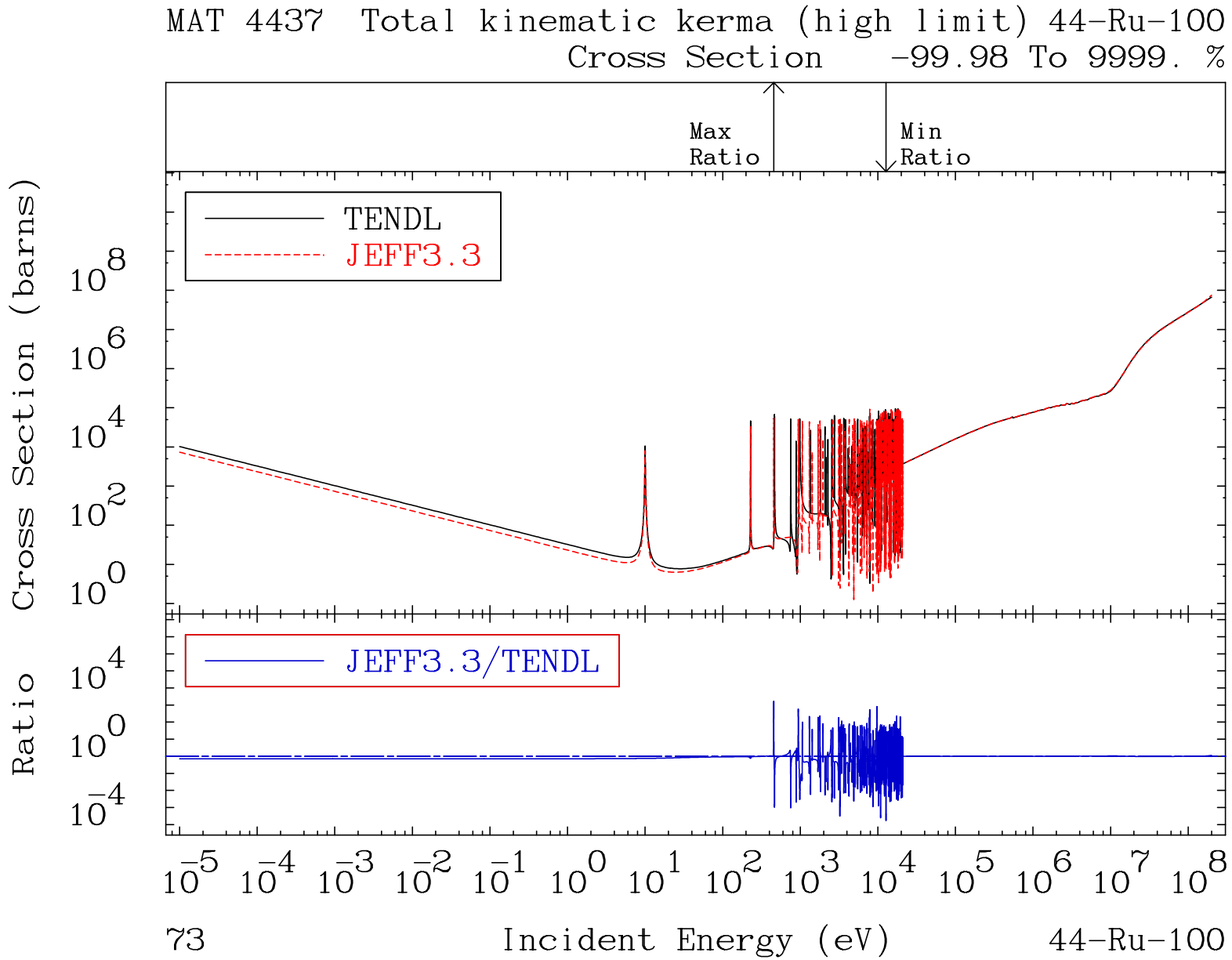

MAT 4437 Kerma non-elastic (all but mt2) 44-Ru-100
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
44-Ru-100

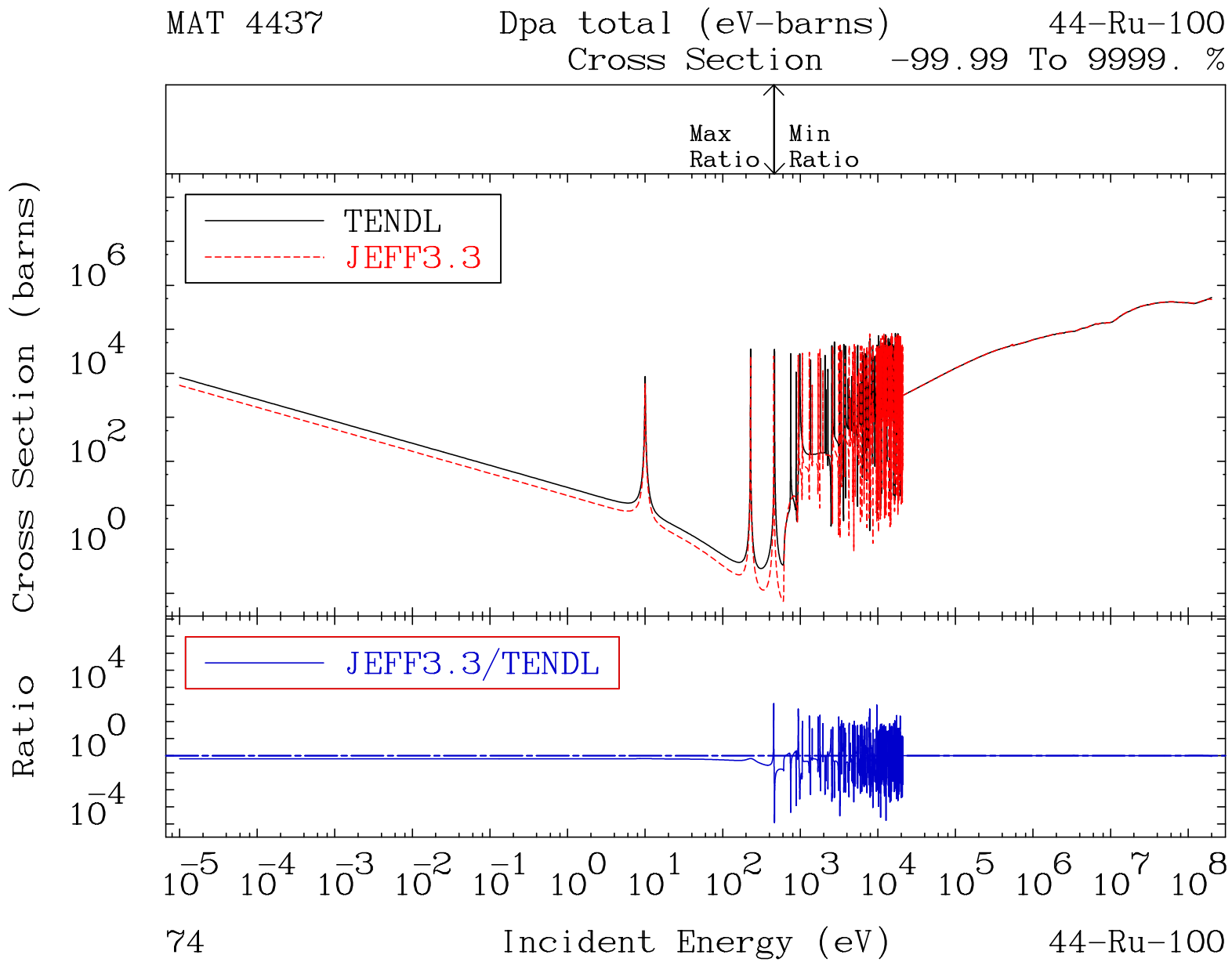

MAT 4437
Kerma inelastic (mt51-91)
44-Ru-100
Cross Section
-27.61 To 7.314 %
Min Ratio
Max Ratio
TENDL Threshold 544.96 keV
JEFF3.3 Threshold 544.96 keV
JEFF3.3/TENDL
Ratio Cross Section (kilo-barns)
400
300
200
100
0
1.2
1.0
0.8
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
69
Incident Energy (eV)
44-Ru-100

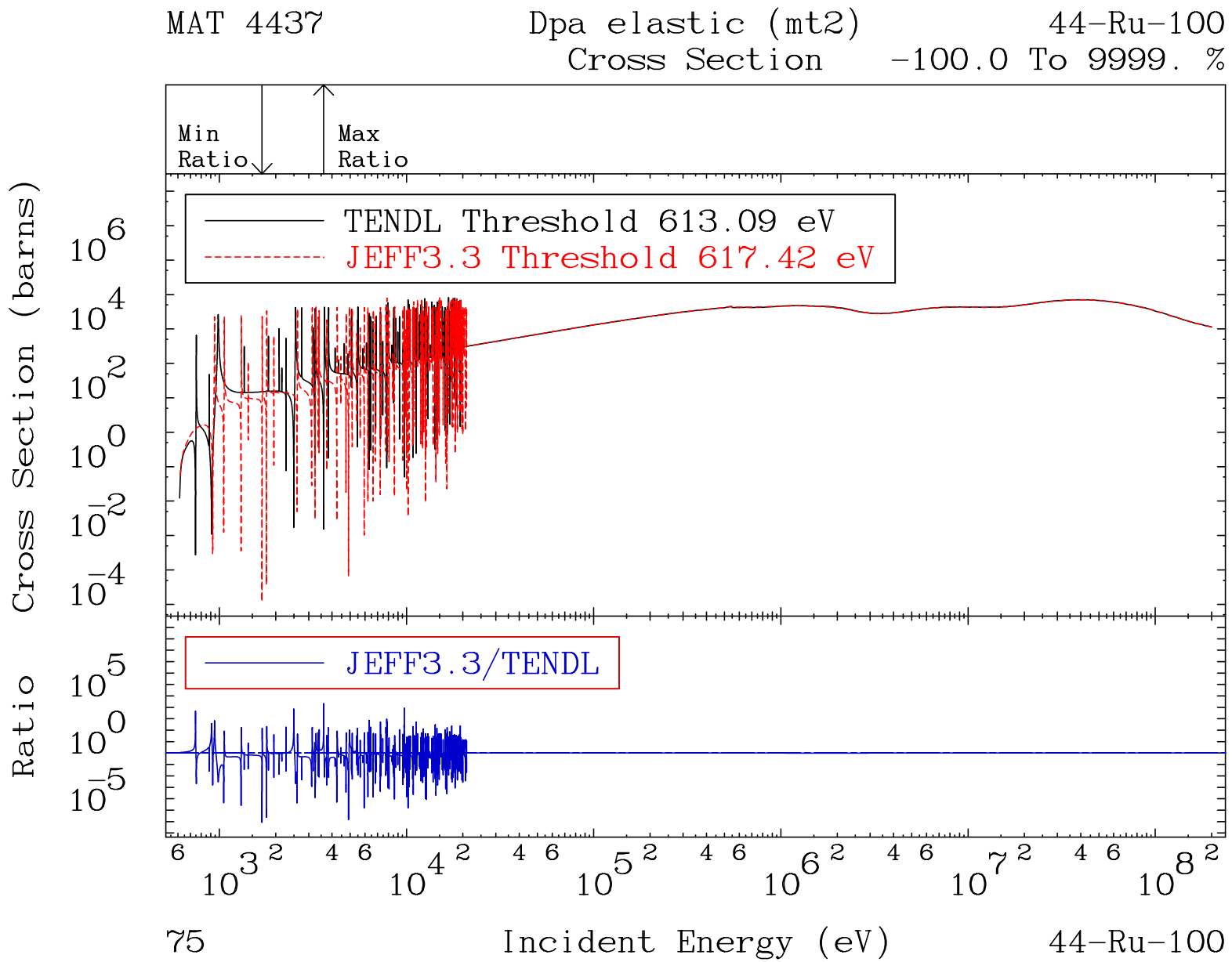

MAT 4437 Kerma fission (mt18 or mt19-20-21-38) 44-Ru-100
Cross Section -27.61 To 7.314 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.2
1.0
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
70
Incident Energy (eV)
44-Ru-100

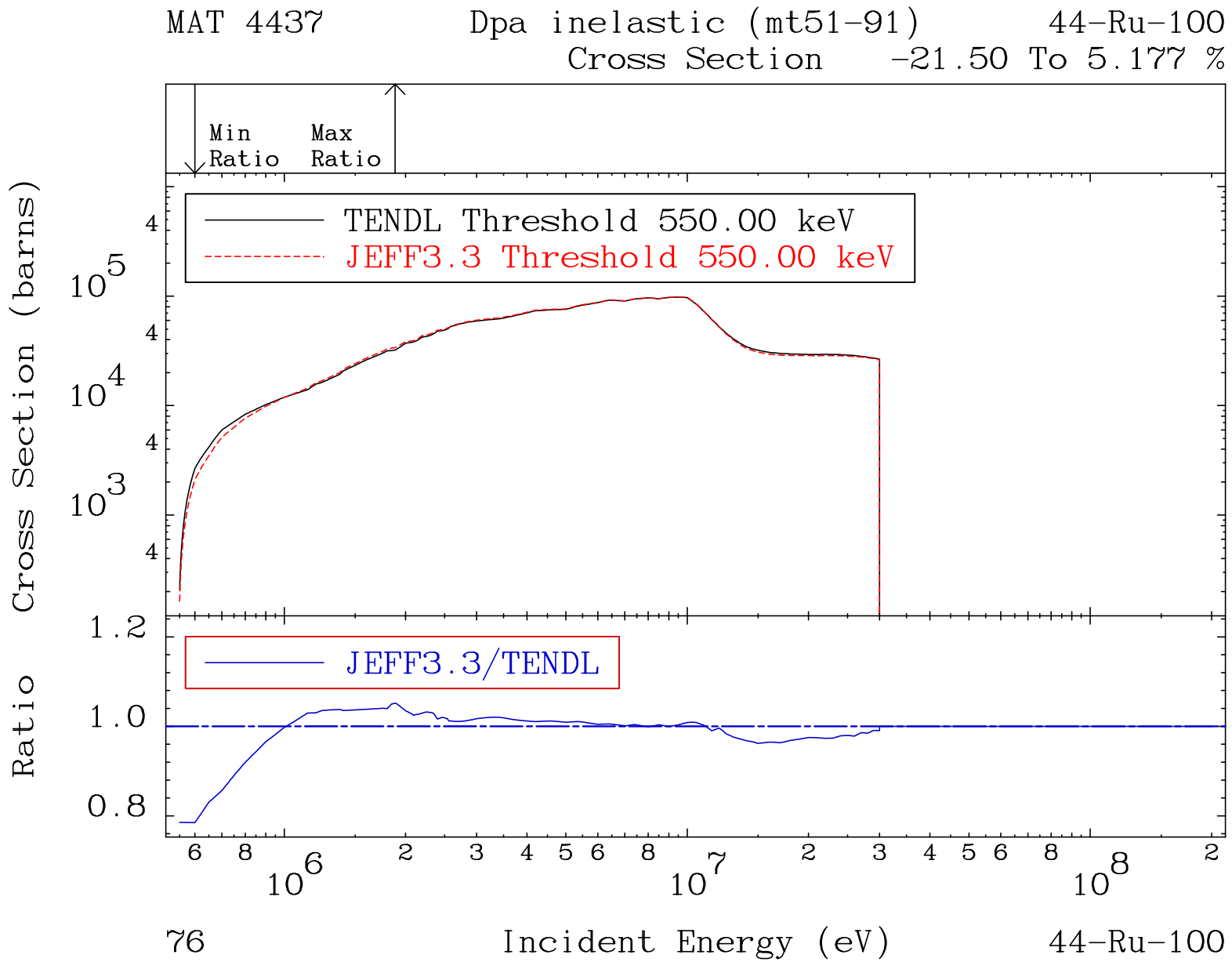

MAT 4437
Kerma capture (mt102)
44-Ru-100
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
44-Ru-100

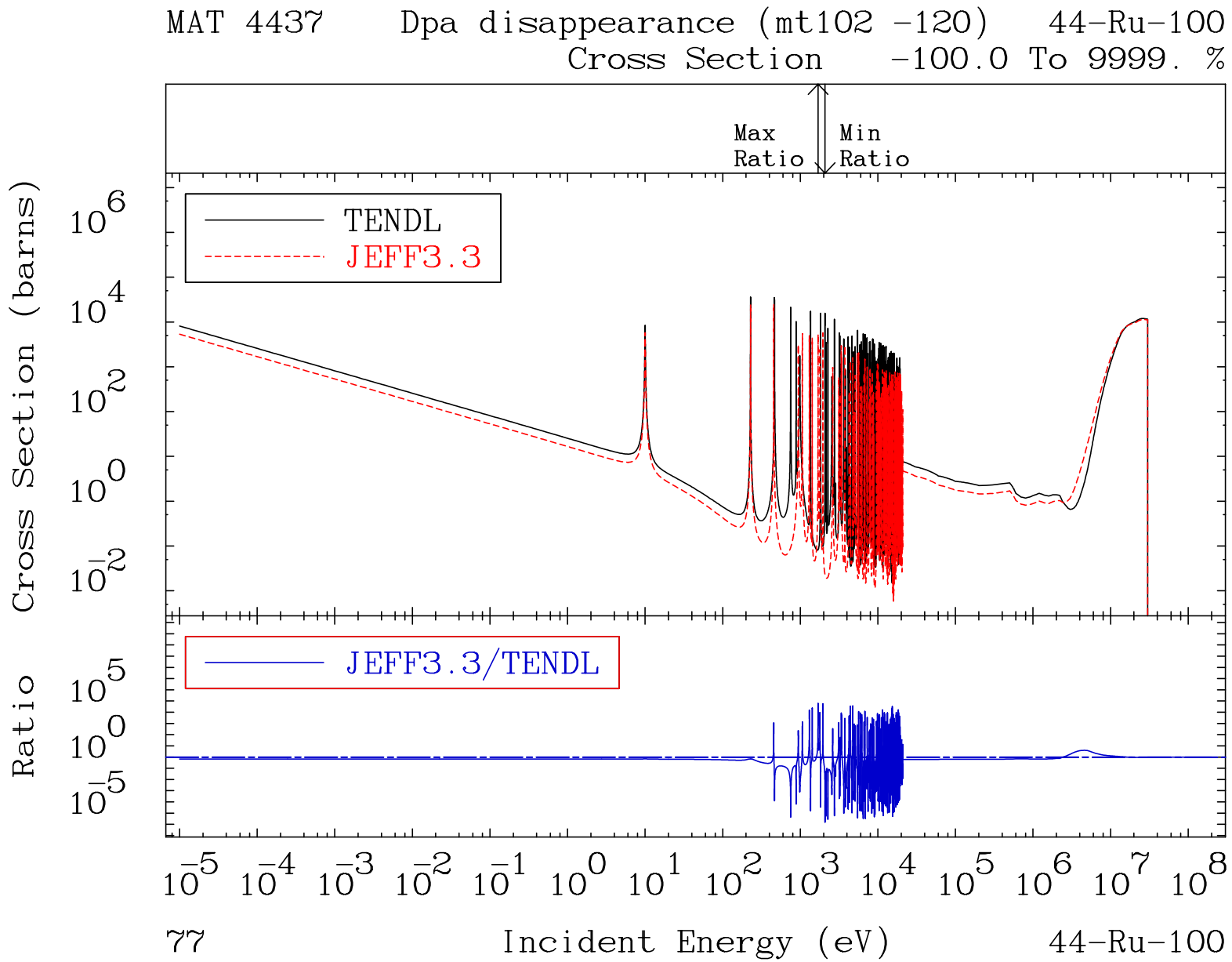

MAT 4437
Total photon (eV-barns)
44-Ru-100
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
44-Ru-100

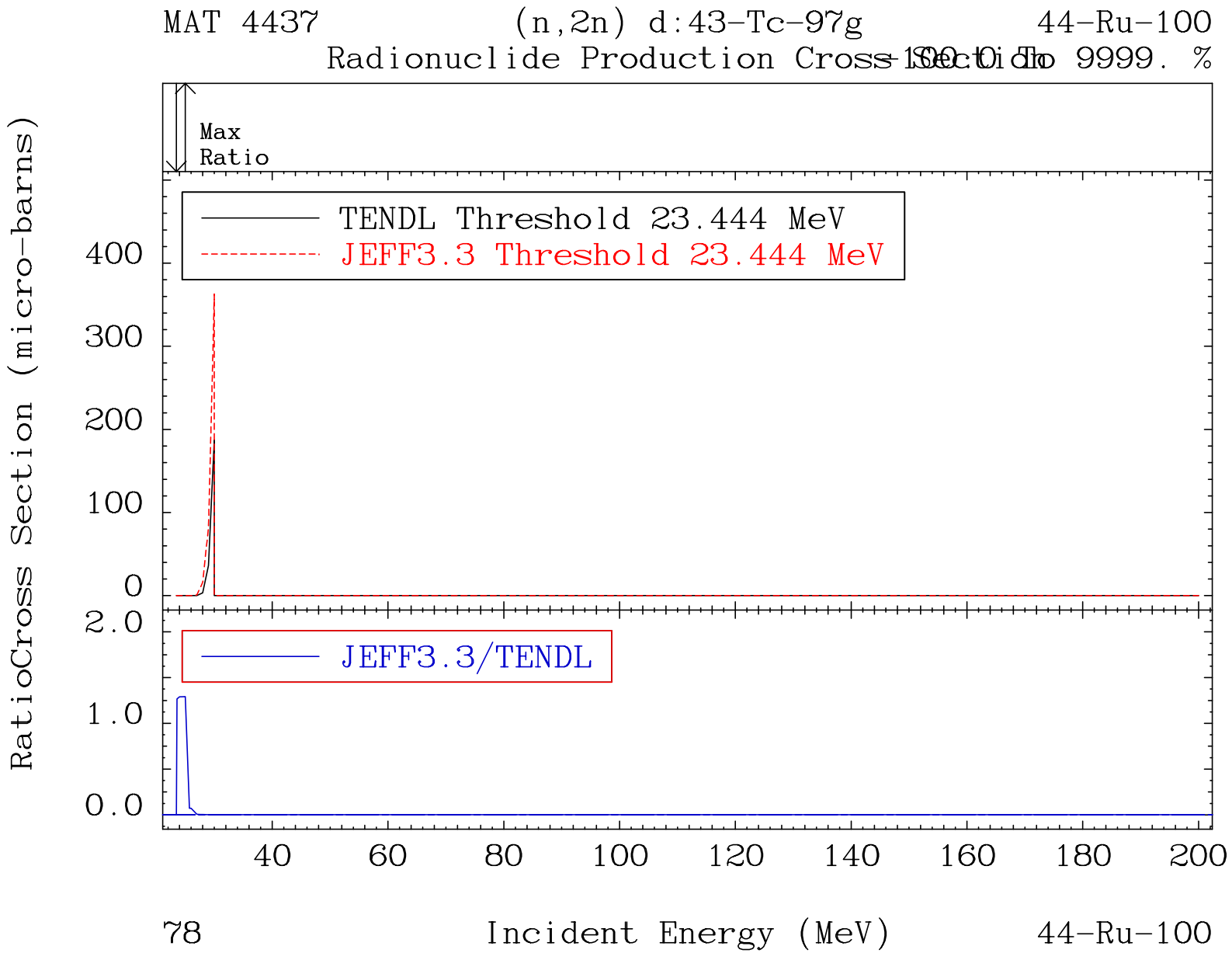

MAT 4437 Total kinematic kerma (high limit) 44-Ru-100
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
44-Ru-100

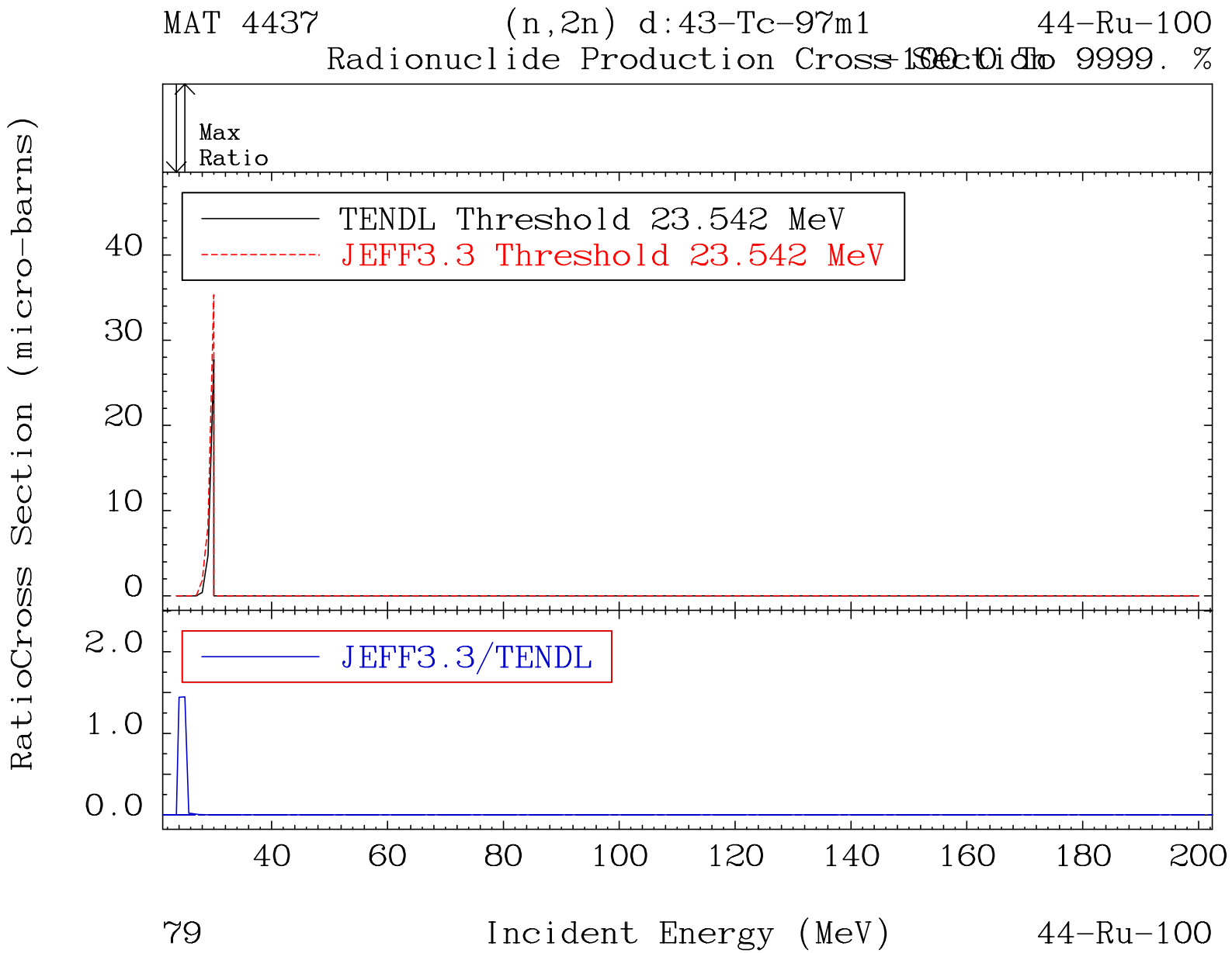

MAT 4437
Dpa total (eV-barns)
44-Ru-100
Cross Section
-99.99 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
44-Ru-100

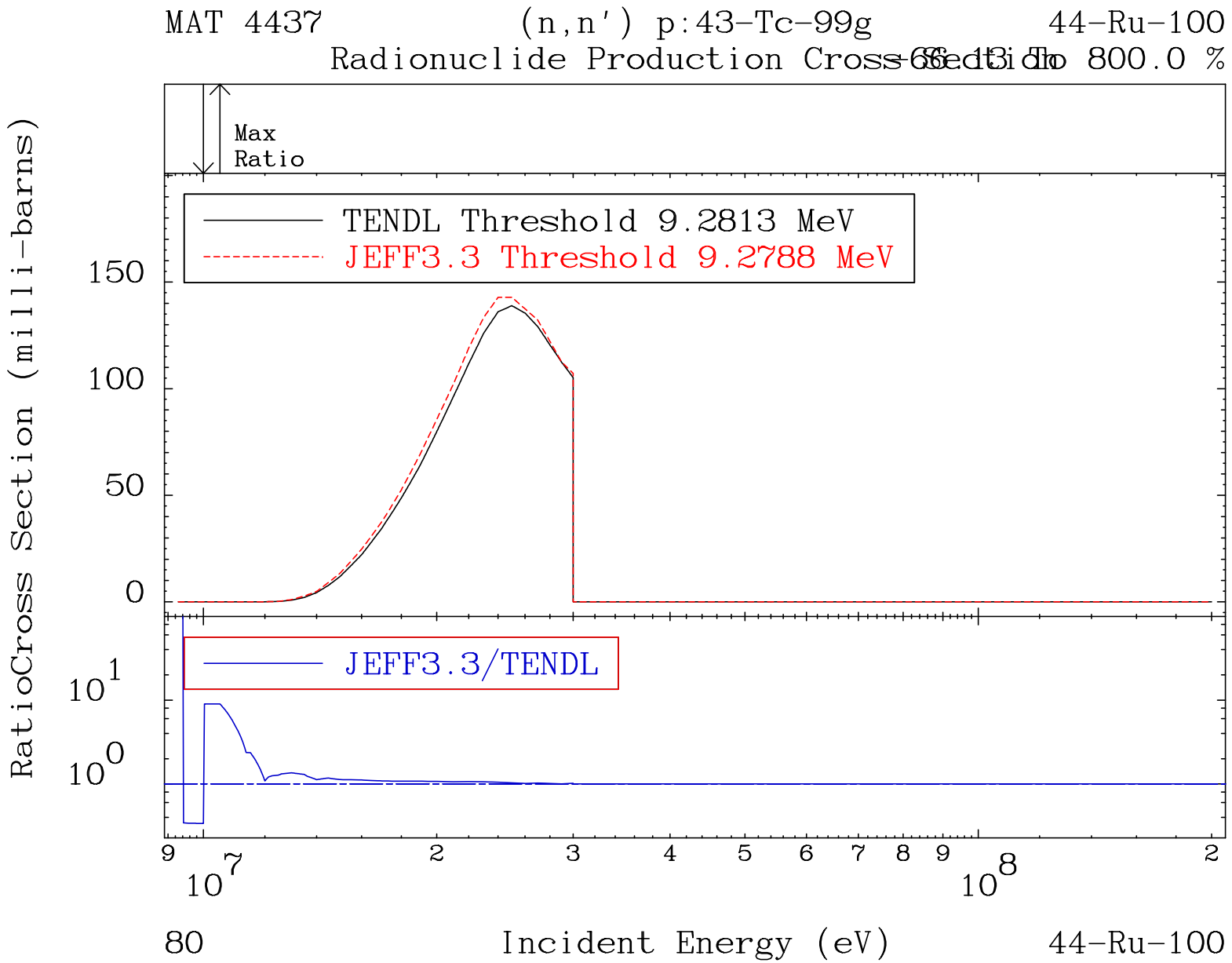

MAT 4437
Dpa elastic (mt2)
Cross Section
44-Ru-100
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 613.09 eV
JEFF3.3 Threshold 617.42 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
44-Ru-100

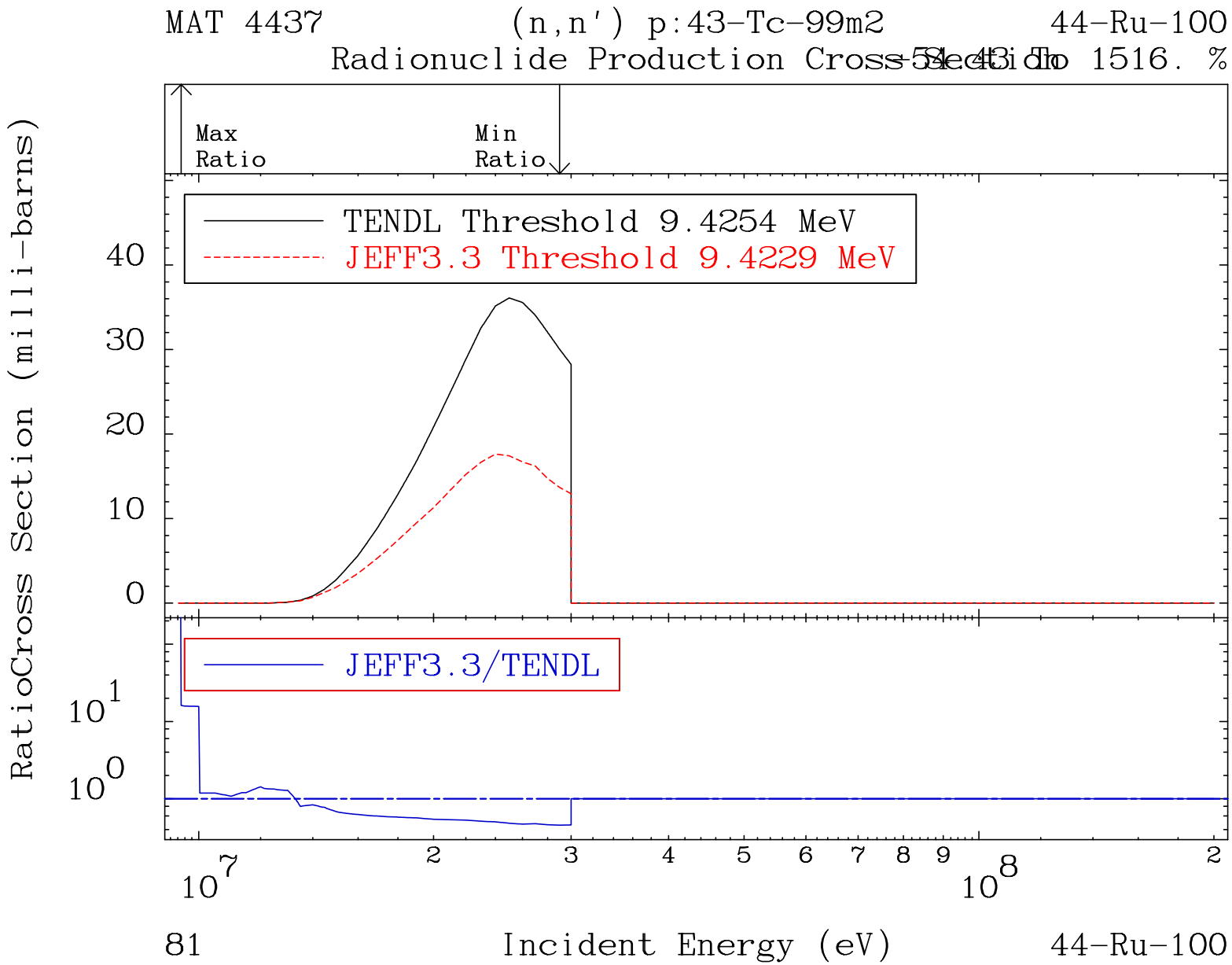

MAT 4437
Dpa inelastic (mt51-91)
44-Ru-100
Cross Section
-21.50 To 5.177 %
Min Ratio
Max Ratio
TENDL Threshold 550.00 keV
JEFF3.3 Threshold 550.00 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
44-Ru-100

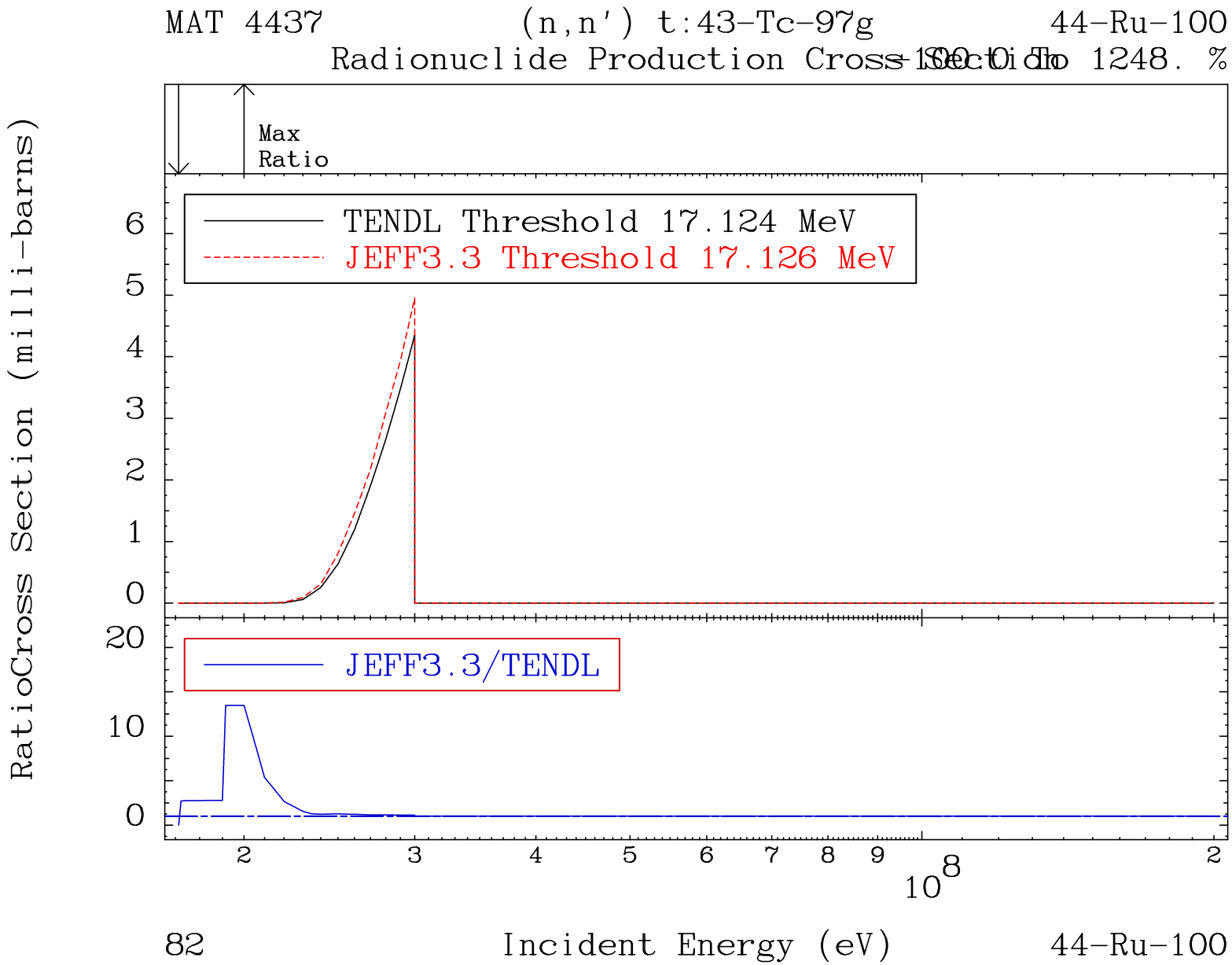

MAT 4437 Dpa disappearance (mt102 -120) 44-Ru-100
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
44-Ru-100

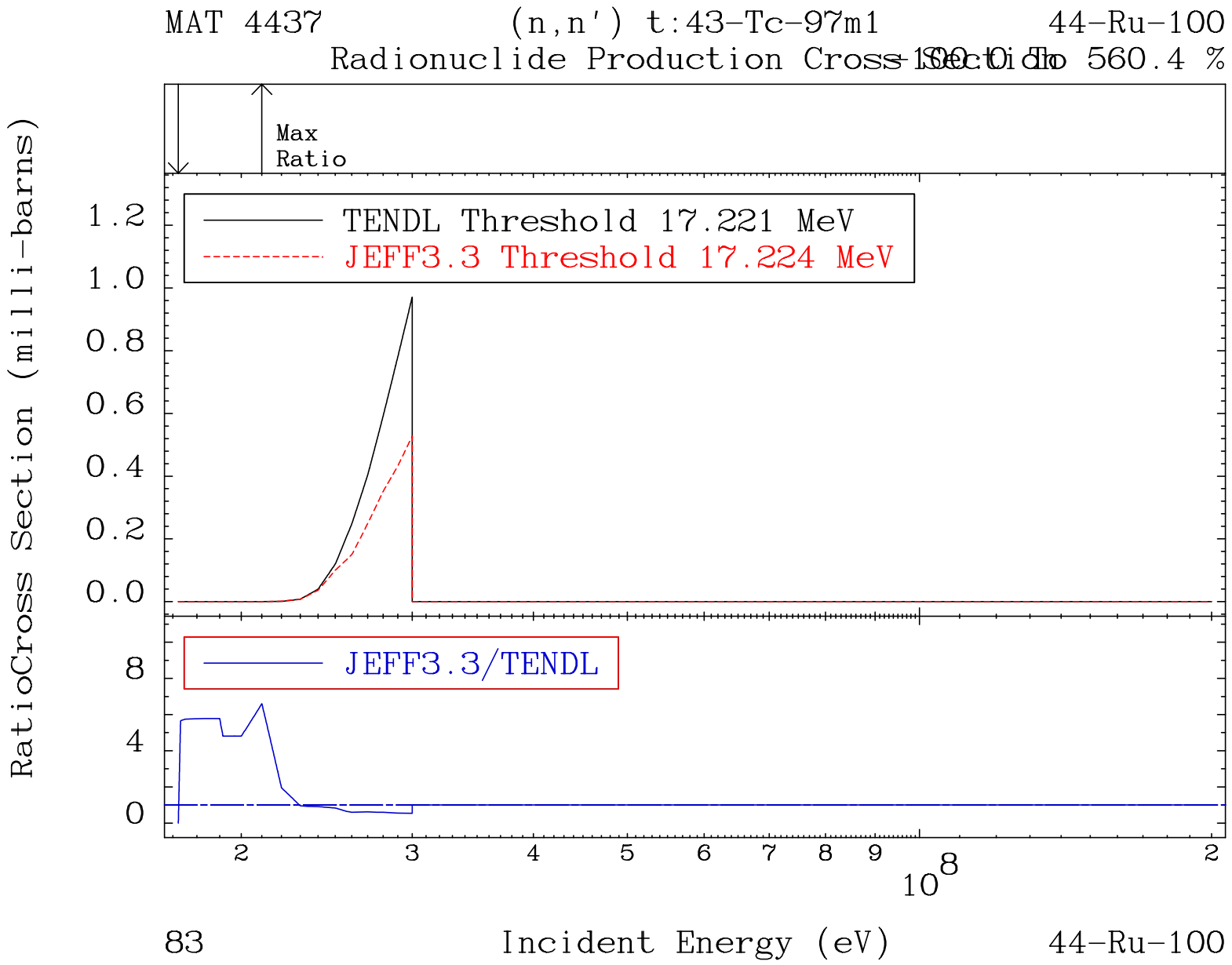

MAT 4437
(n,2n) d:43-Tc-97g
44-Ru-100
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 23.444 MeV
JEFF3.3 Threshold 23.444 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
400
300
200
100
0
2.0
1.0
0.0
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
44-Ru-100

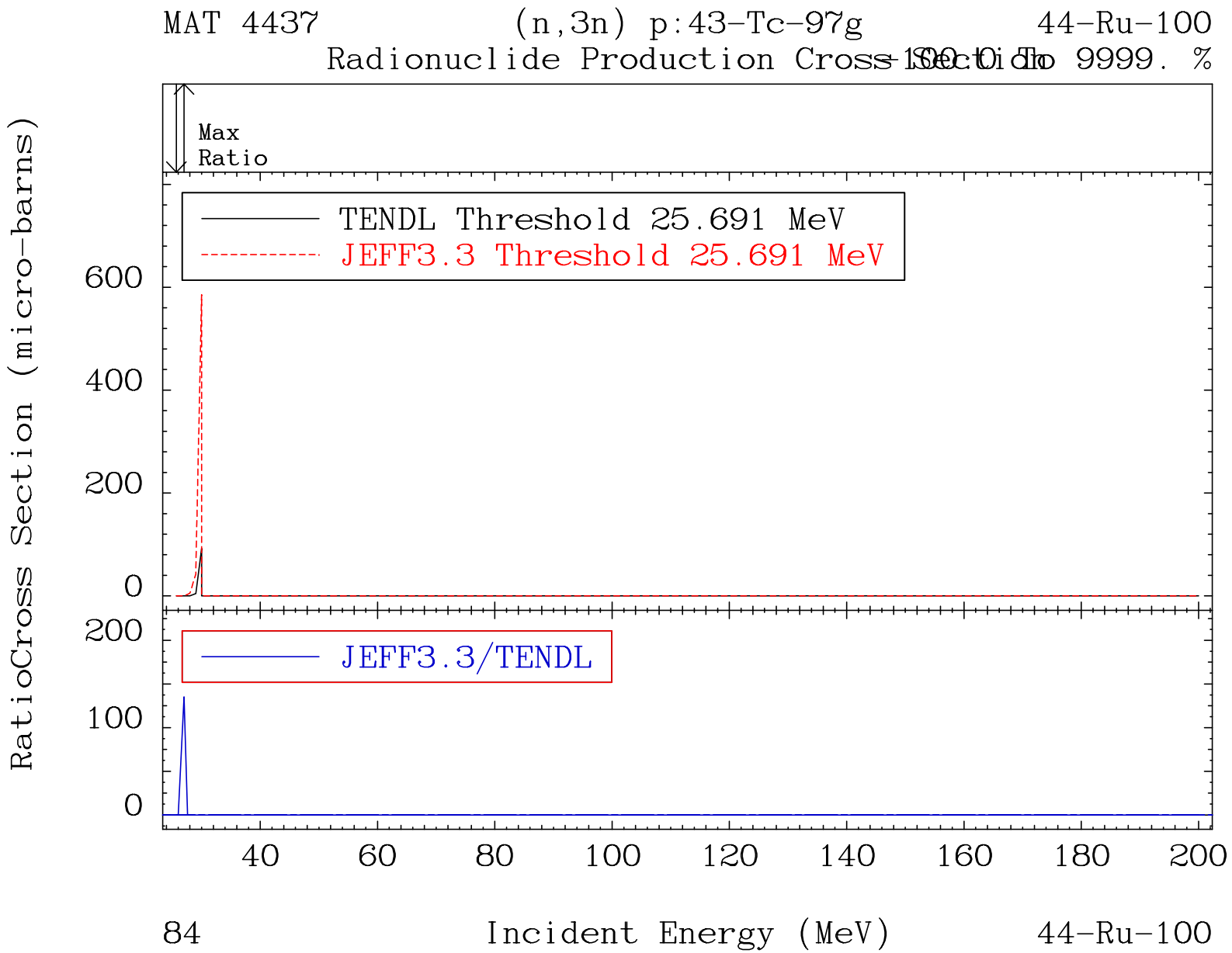

MAT 4437
(n,2n) d:43-Tc-97m1
44-Ru-100
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 23.542 MeV
JEFF3.3 Threshold 23.542 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (MeV)
79
44-Ru-100

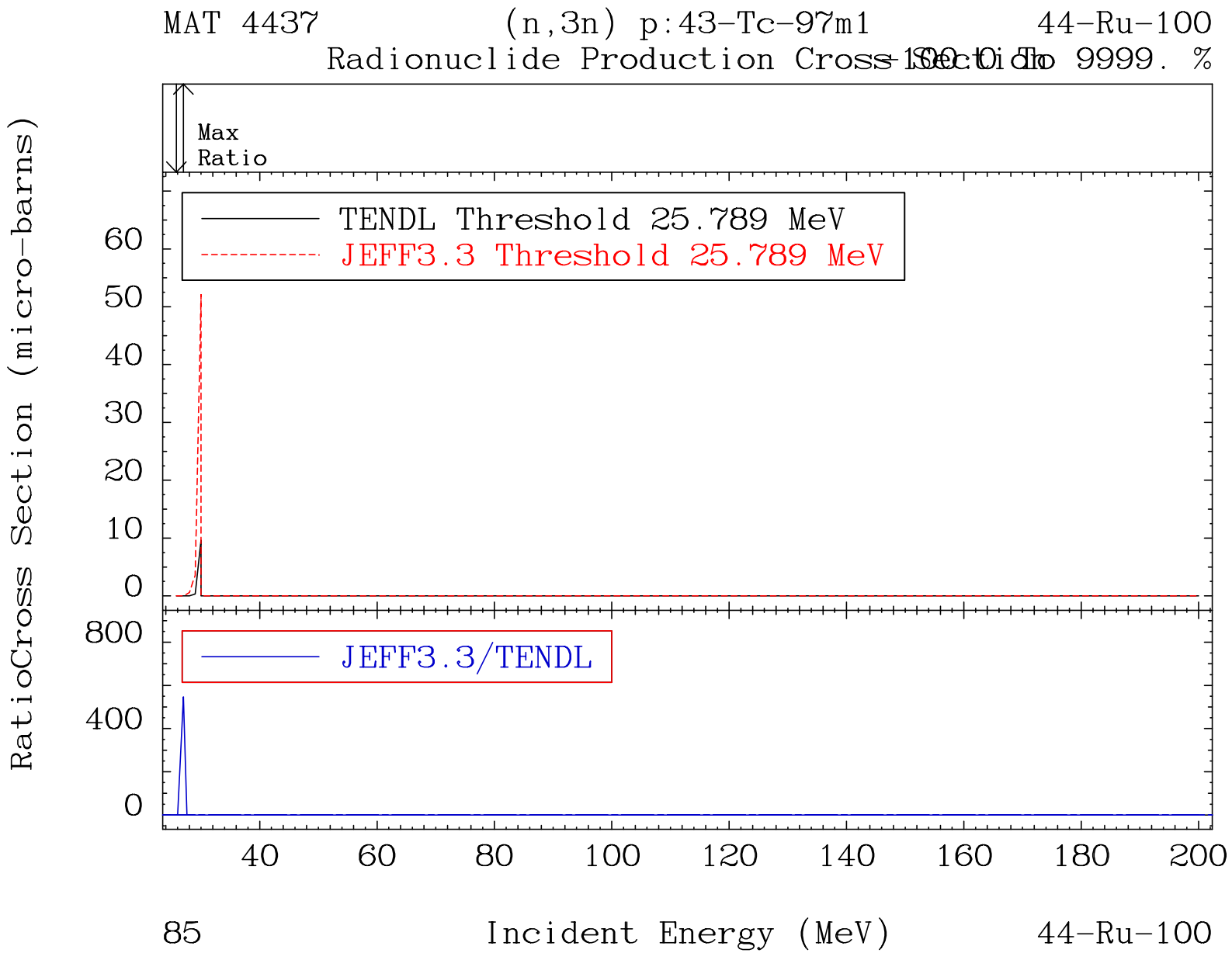

MAT 4437
(n,n') p:43-Tc-99g
44-Ru-100
Radionuclide Production Cross-Section
0.0 to 800.0 %
Max
Ratio
TENDL Threshold 9.2813 MeV
JEFF3.3 Threshold 9.2788 MeV
150
100
50
0
JEFF3.3/TENDL
10^1
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
80
Incident Energy (eV)
44-Ru-100

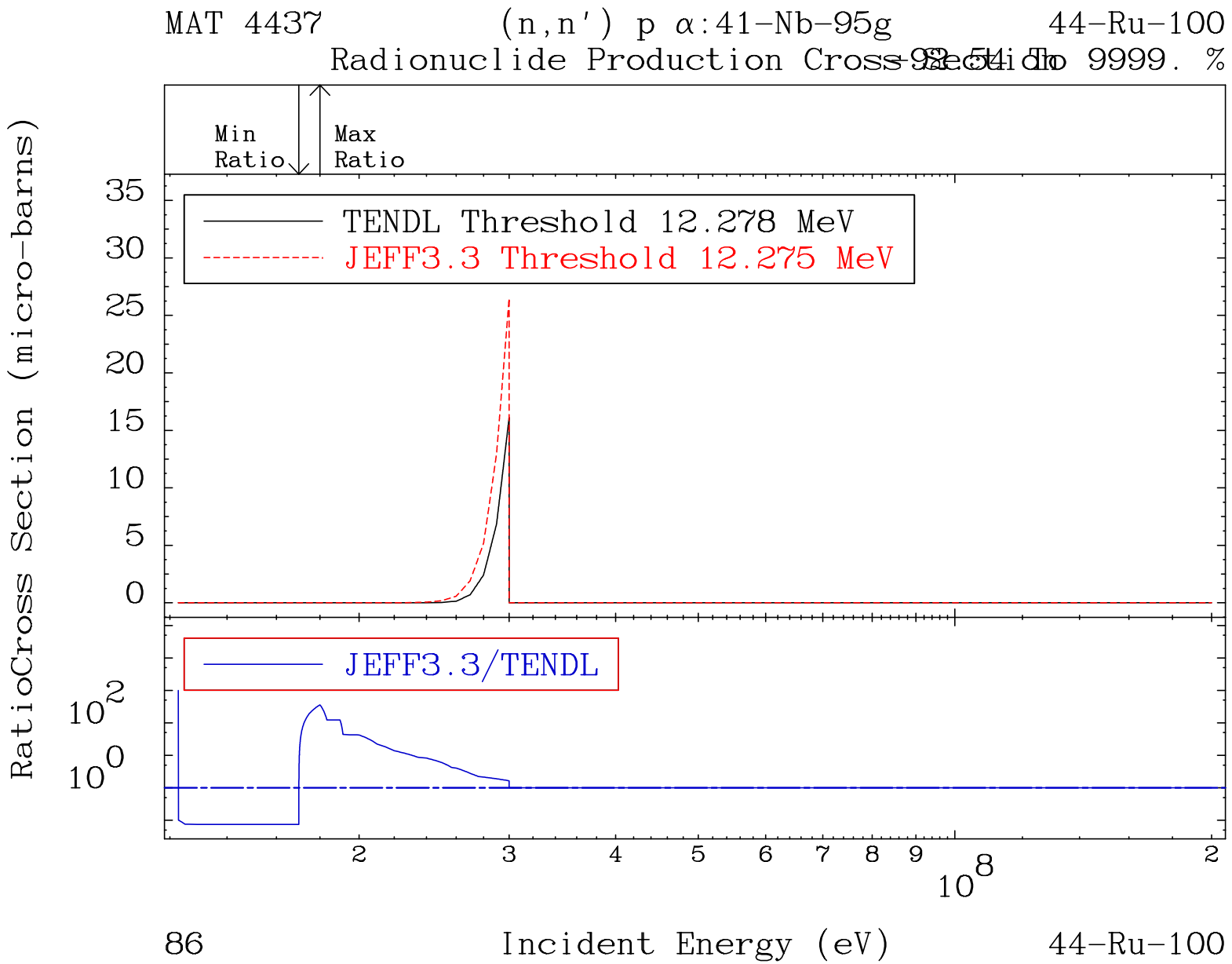

MAT 4437
(n,n') p:43-Tc-99m2
44-Ru-100
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 9.4254 MeV
JEFF3.3 Threshold 9.4229 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
44-Ru-100

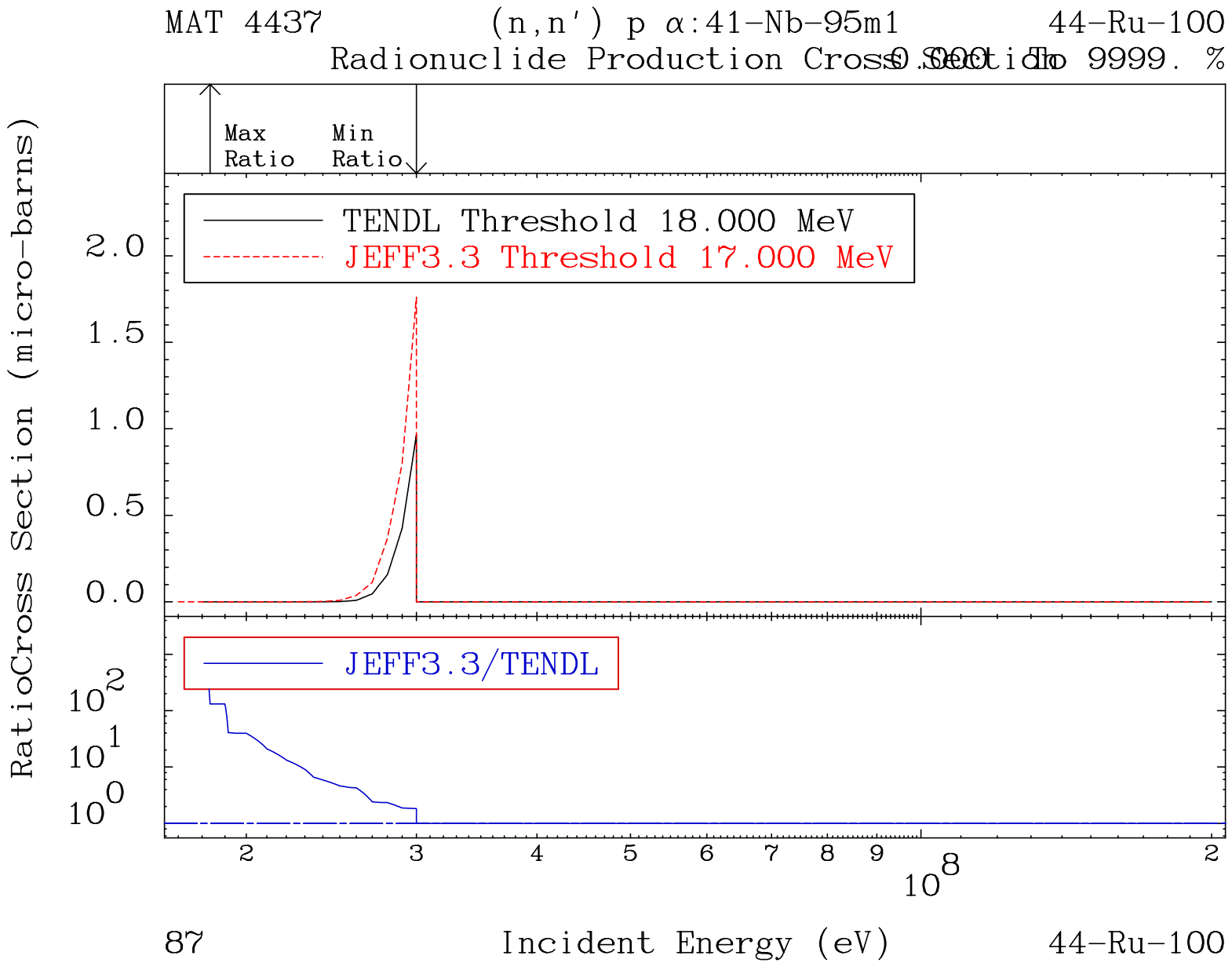

MAT 4437
(n,n') t:43-Tc-97g
44-Ru-100
Radionuclide Production Cross Section To 1248. %
Max
Ratio
TENDL Threshold 17.124 MeV
JEFF3.3 Threshold 17.126 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
82
44-Ru-100

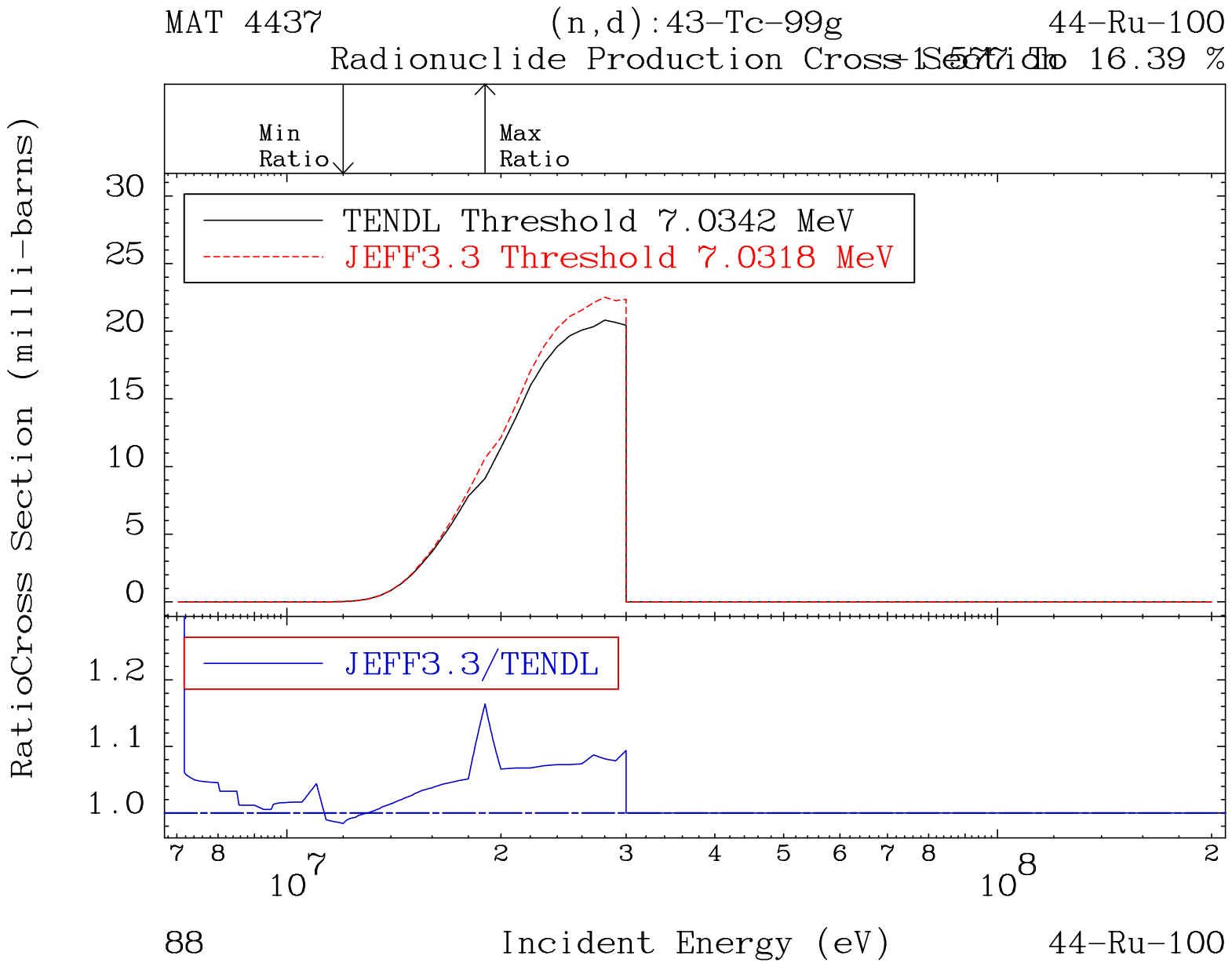

MAT 4437
(n,n') t:43-Tc-97m1
44-Ru-100
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 17.221 MeV
JEFF3.3 Threshold 17.224 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
8
4
0
2
3
4
5
6
7
8
9
2
10^8
83
Incident Energy (eV)
44-Ru-100

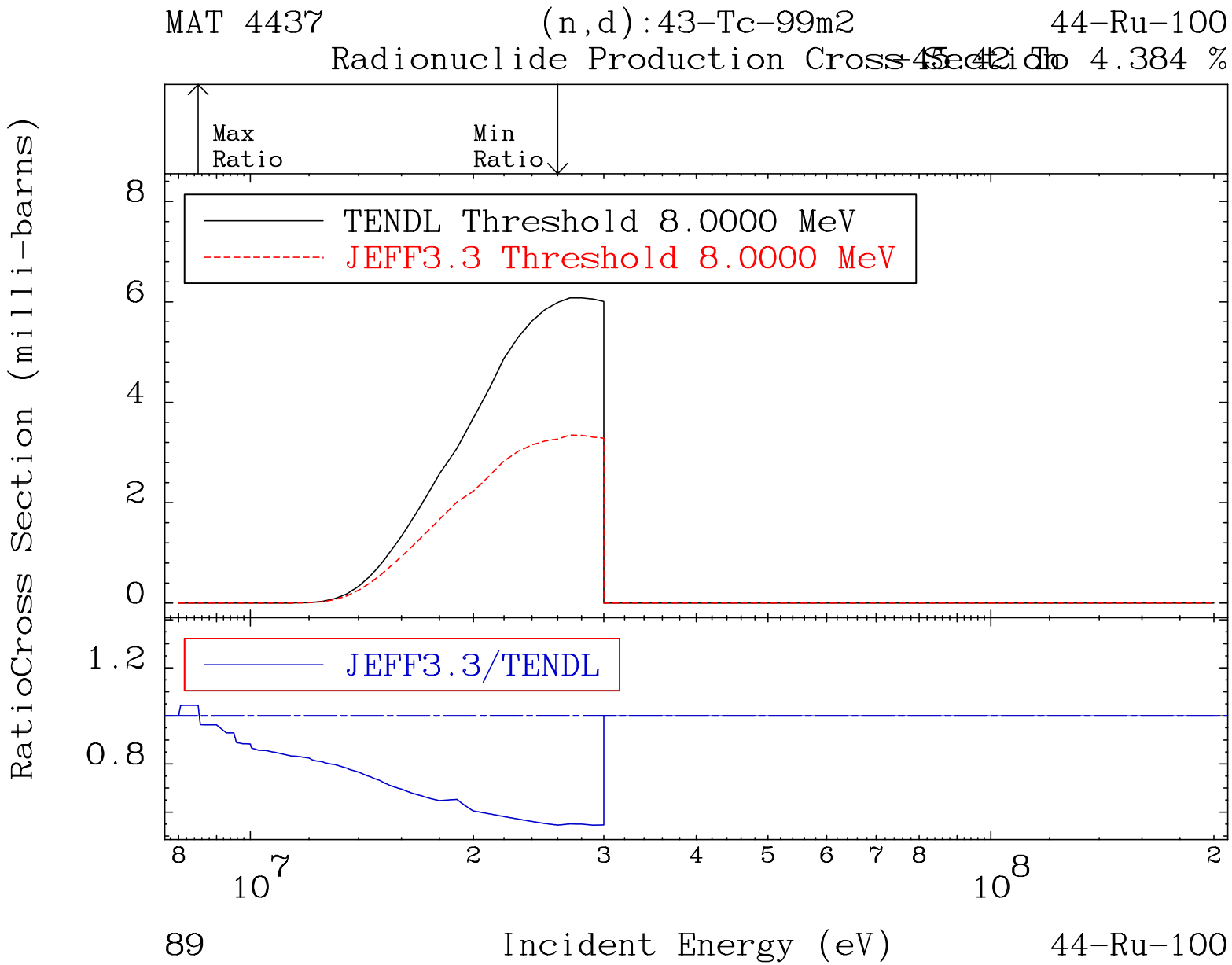

MAT 4437
(n,3n) p:43-Tc-97g
44-Ru-100
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 25.691 MeV
JEFF3.3 Threshold 25.691 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
600
400
200
0
200
100
0
40
60
80
100
120
140
160
180
200
84
Incident Energy (MeV)
44-Ru-100

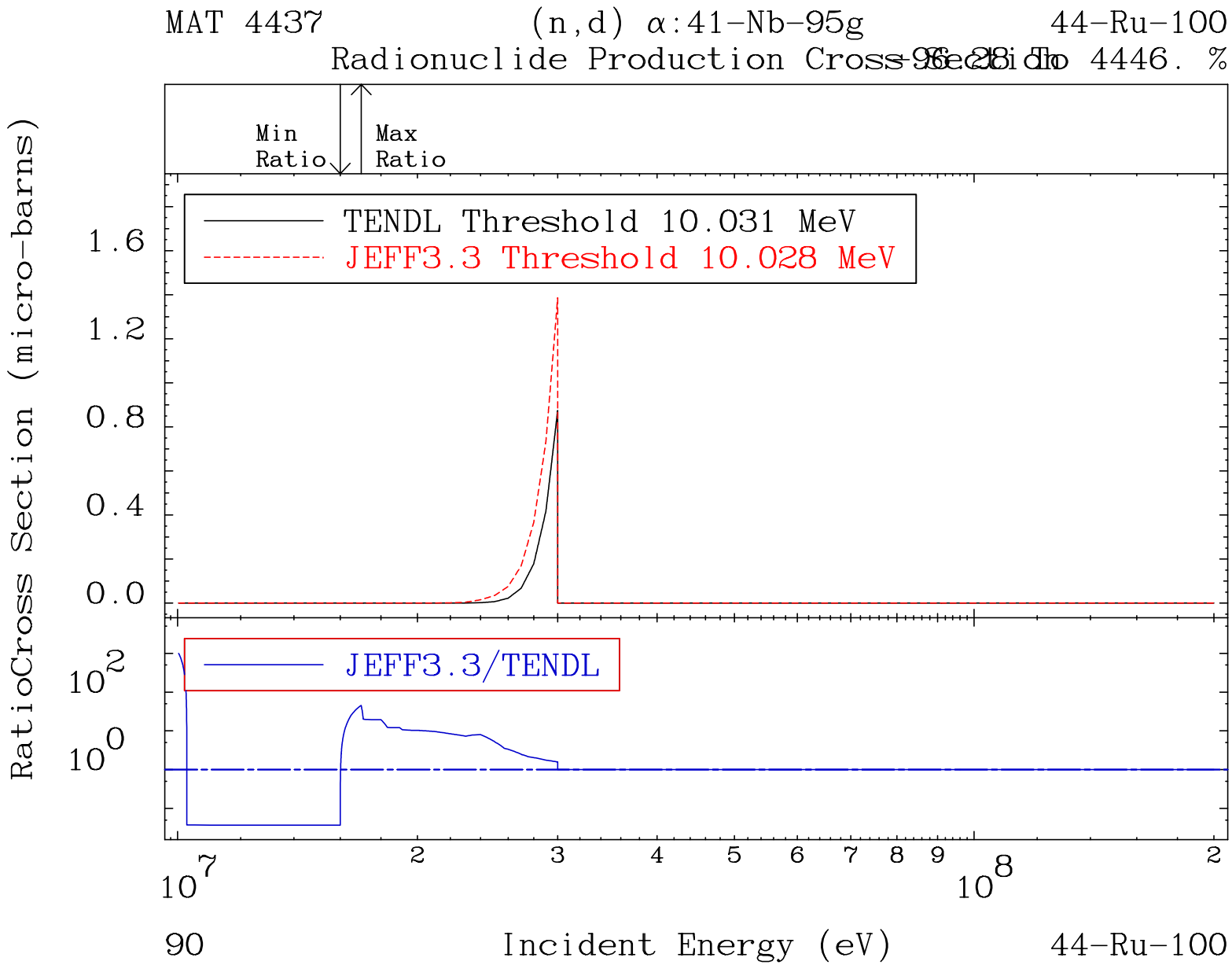

MAT 4437
(n,3n) p:43-Tc-97m1
44-Ru-100
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 25.789 MeV
JEFF3.3 Threshold 25.789 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
60
50
40
30
20
10
0
800
400
0
40
60
80
100
120
140
160
180
200
85
Incident Energy (MeV)
44-Ru-100

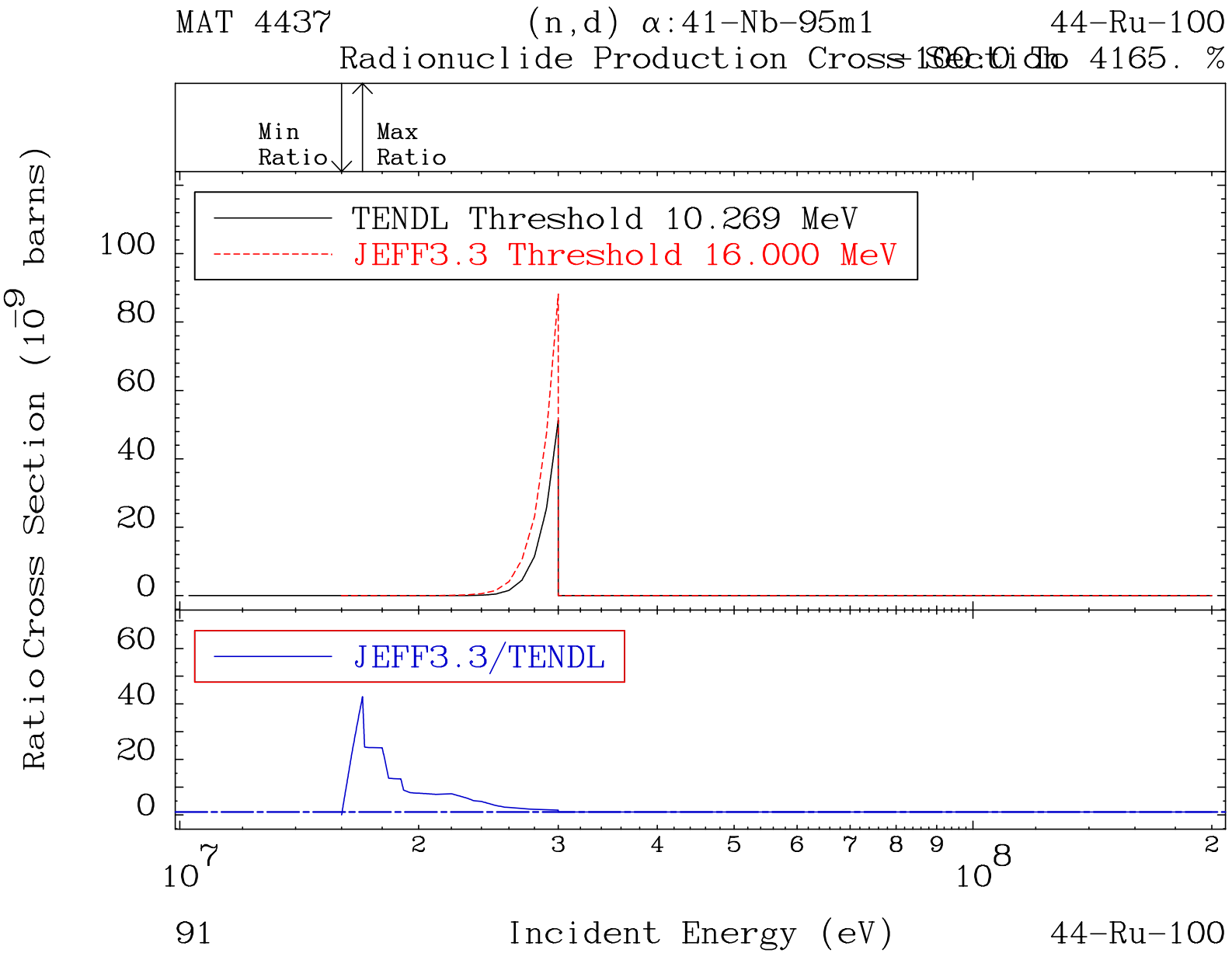

MAT 4437
(n,n') p α:41-Nb-95g
44-Ru-100
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 12.278 MeV
JEFF3.3 Threshold 12.275 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
86
44-Ru-100


MAT 4437
(n,n') p α:41-Nb-95m1
44-Ru-100
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 18.000 MeV
JEFF3.3 Threshold 17.000 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
44-Ru-100


MAT 4437
(n,d):43-Tc-99g
44-Ru-100
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 7.0342 MeV
JEFF3.3 Threshold 7.0318 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
88
44-Ru-100


MAT 4437
(n,d):43-Tc-99m2
44-Ru-100
Radionuclide Production Cross-Section
45.42 To 4.384 %
Max Ratio
Min Ratio
TENDL Threshold 8.0000 MeV
JEFF3.3 Threshold 8.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
89
44-Ru-100


MAT 4437
(n,d) α:41-Nb-95g
44-Ru-100
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 10.031 MeV
JEFF3.3 Threshold 10.028 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
90
44-Ru-100


MAT 4437
(n,d) α:41-Nb-95m1
44-Ru-100
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 10.269 MeV
JEFF3.3 Threshold 16.000 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
91
44-Ru-100