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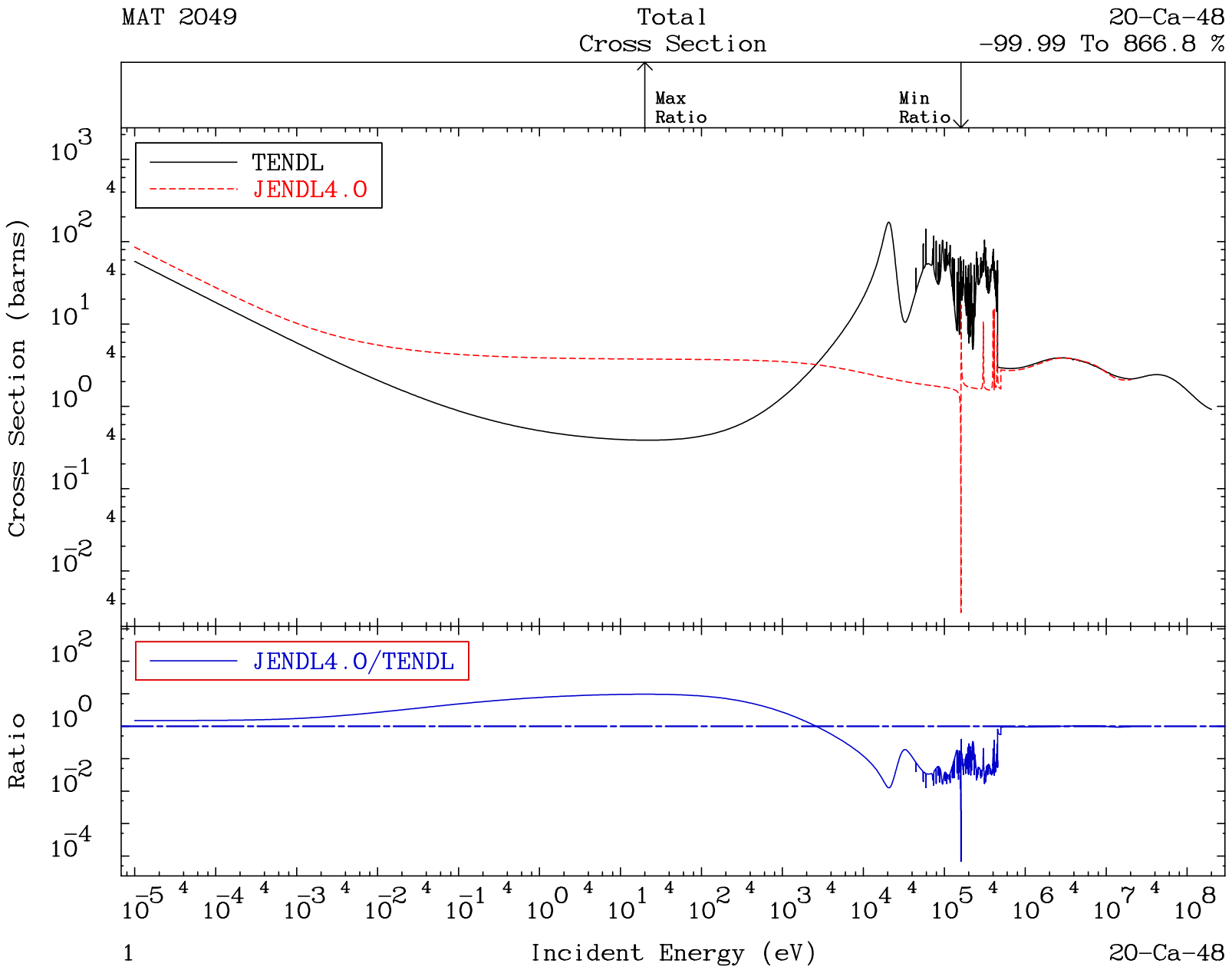
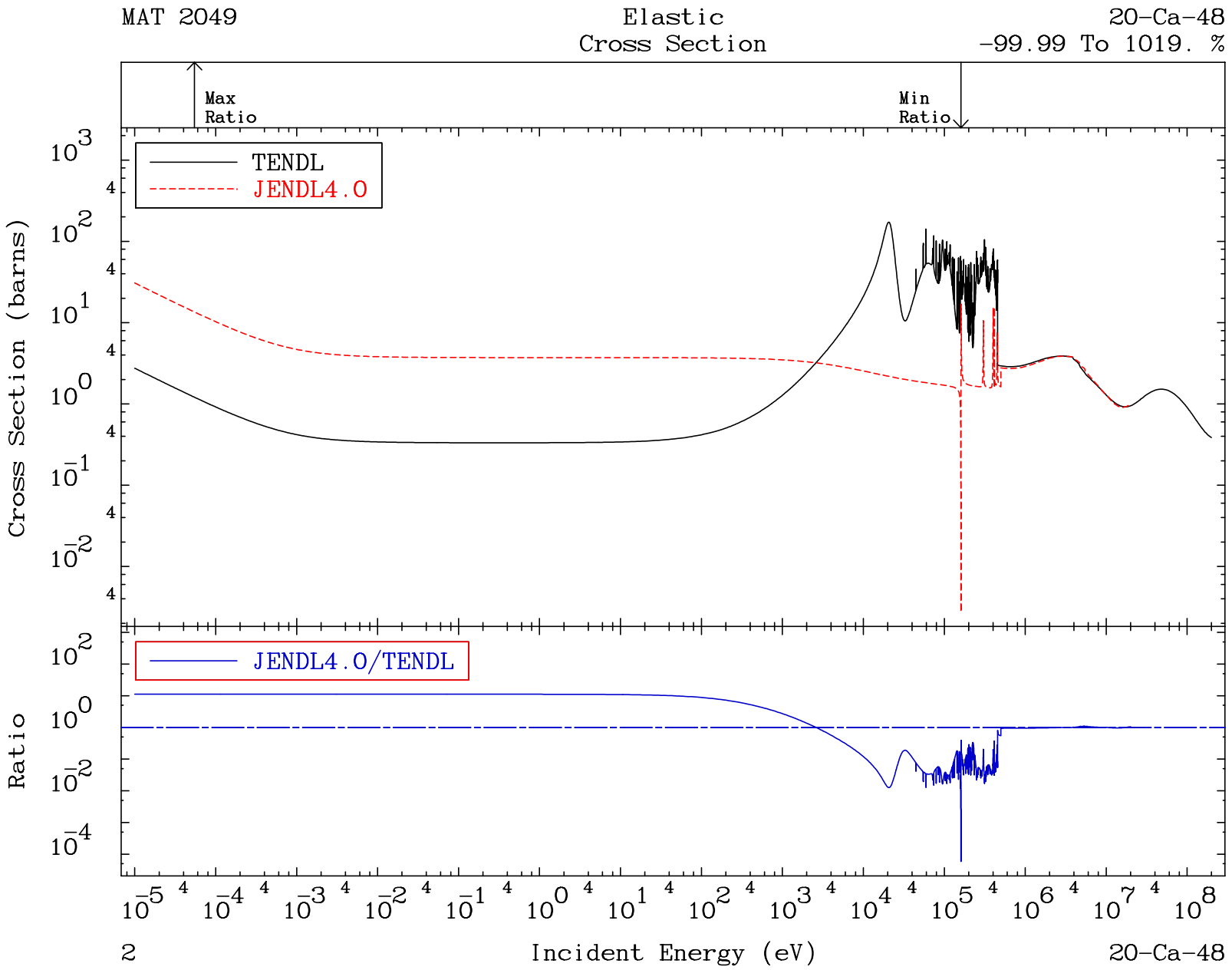
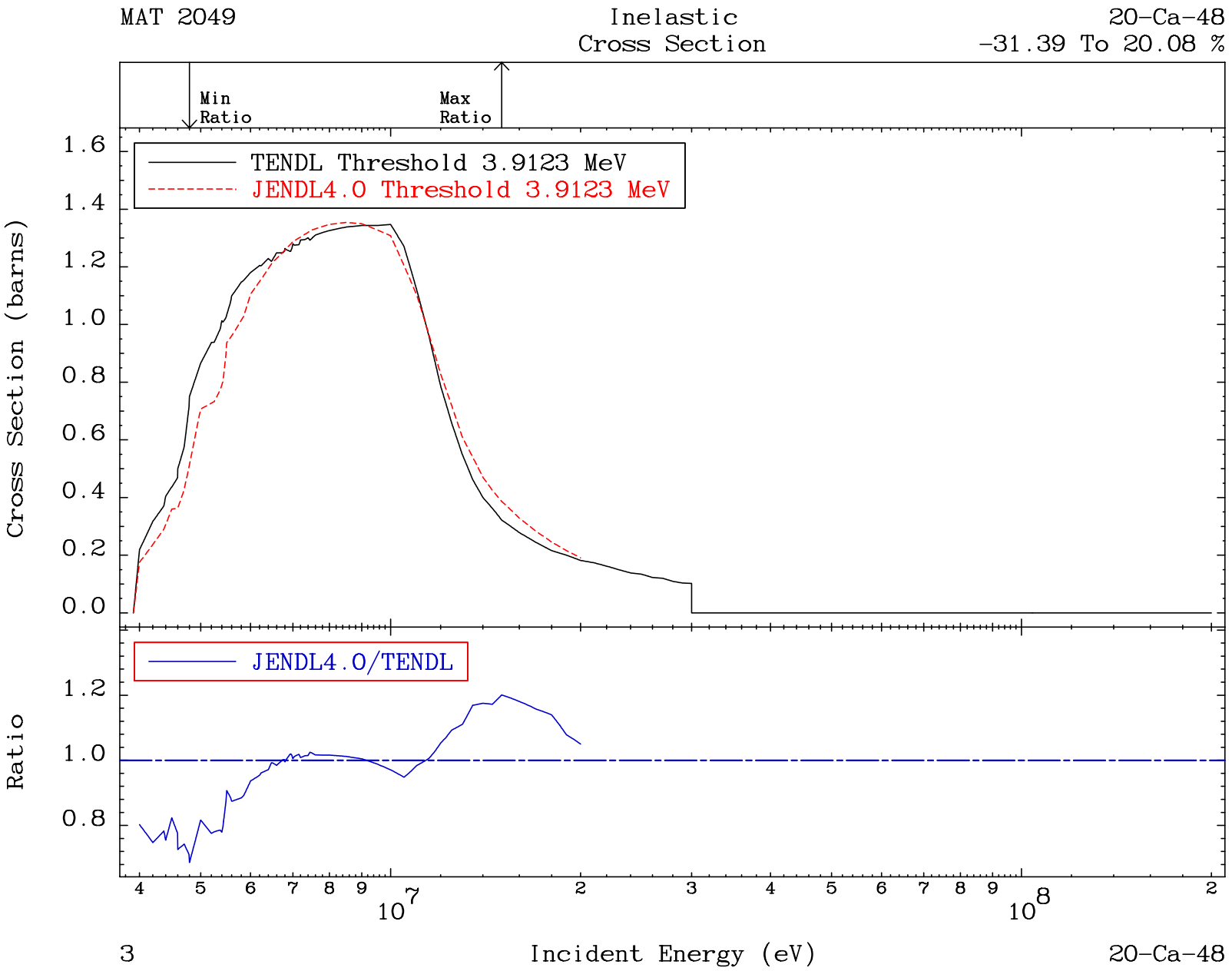
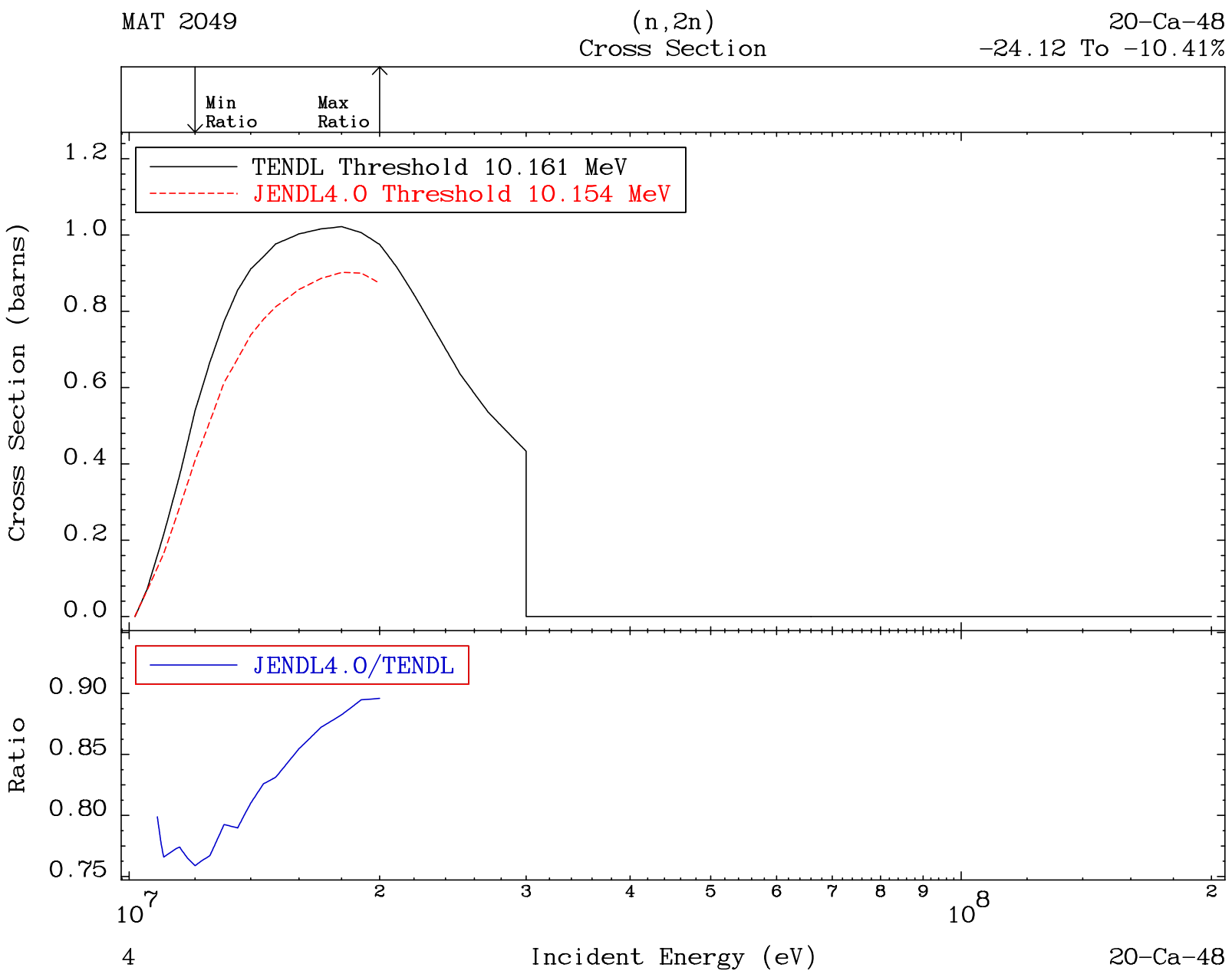
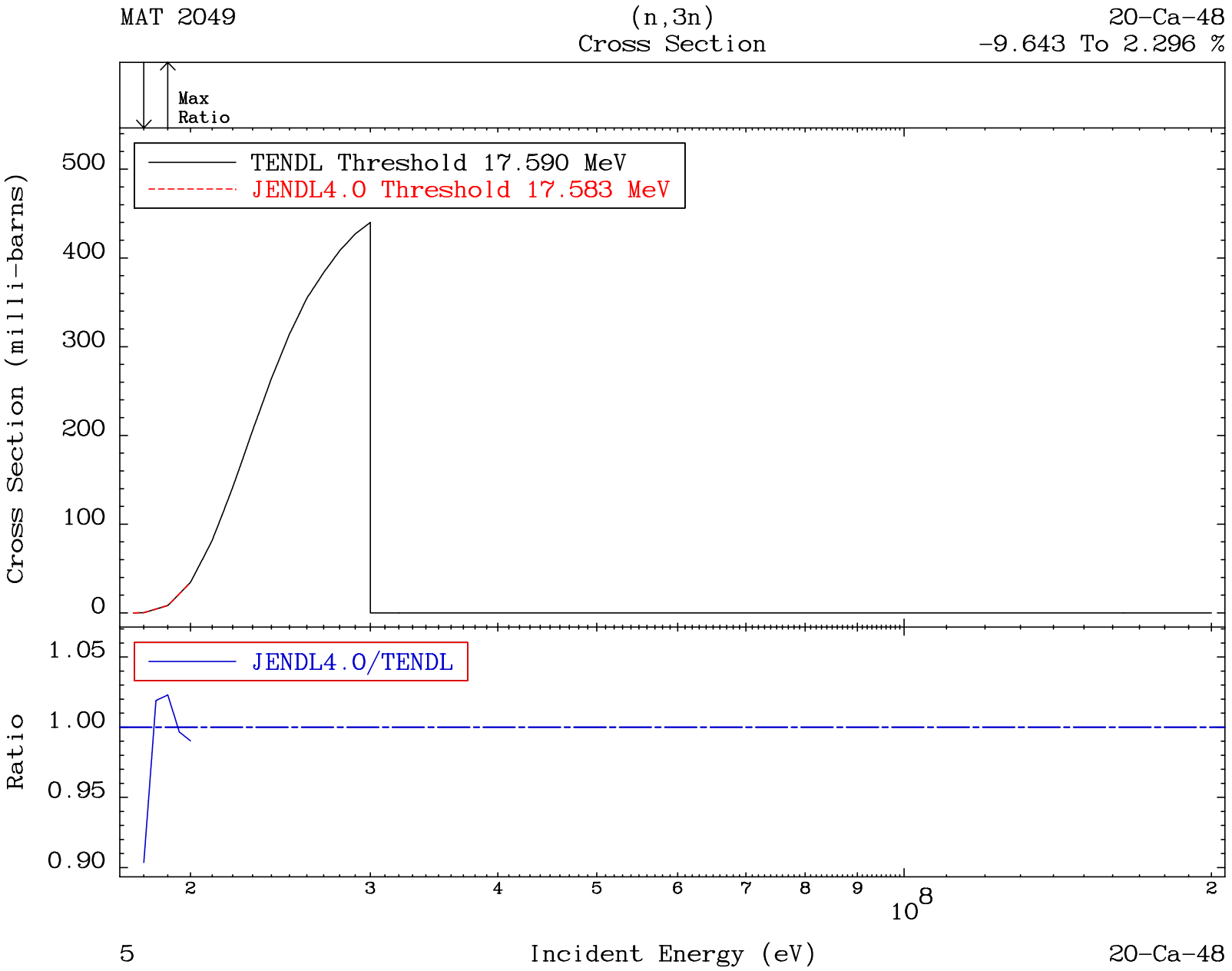
Press Mouse Button to Start

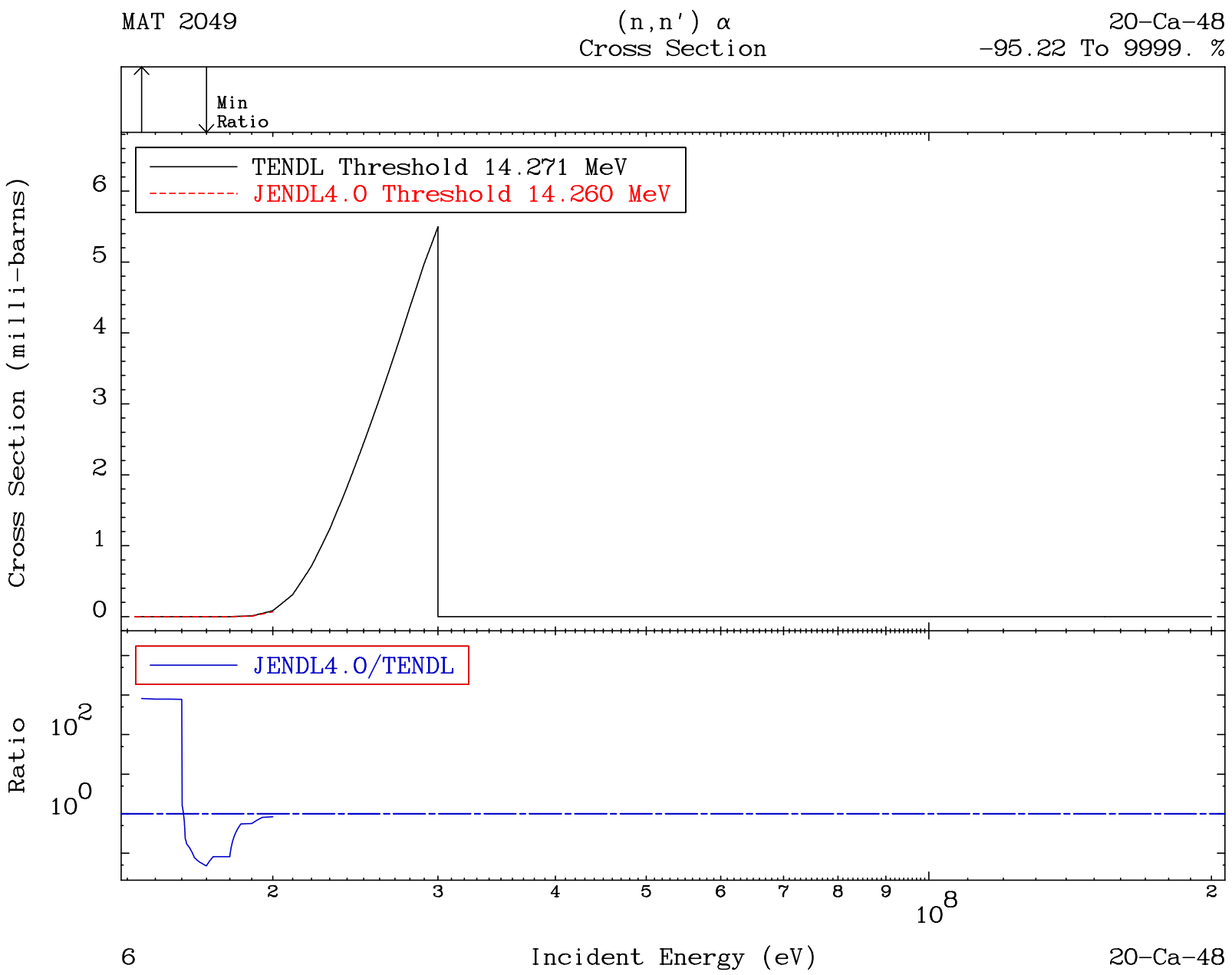

MAT 2049
Total
Cross Section
20-Ca-48
-99.99 To 866.8 %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
20-Ca-48

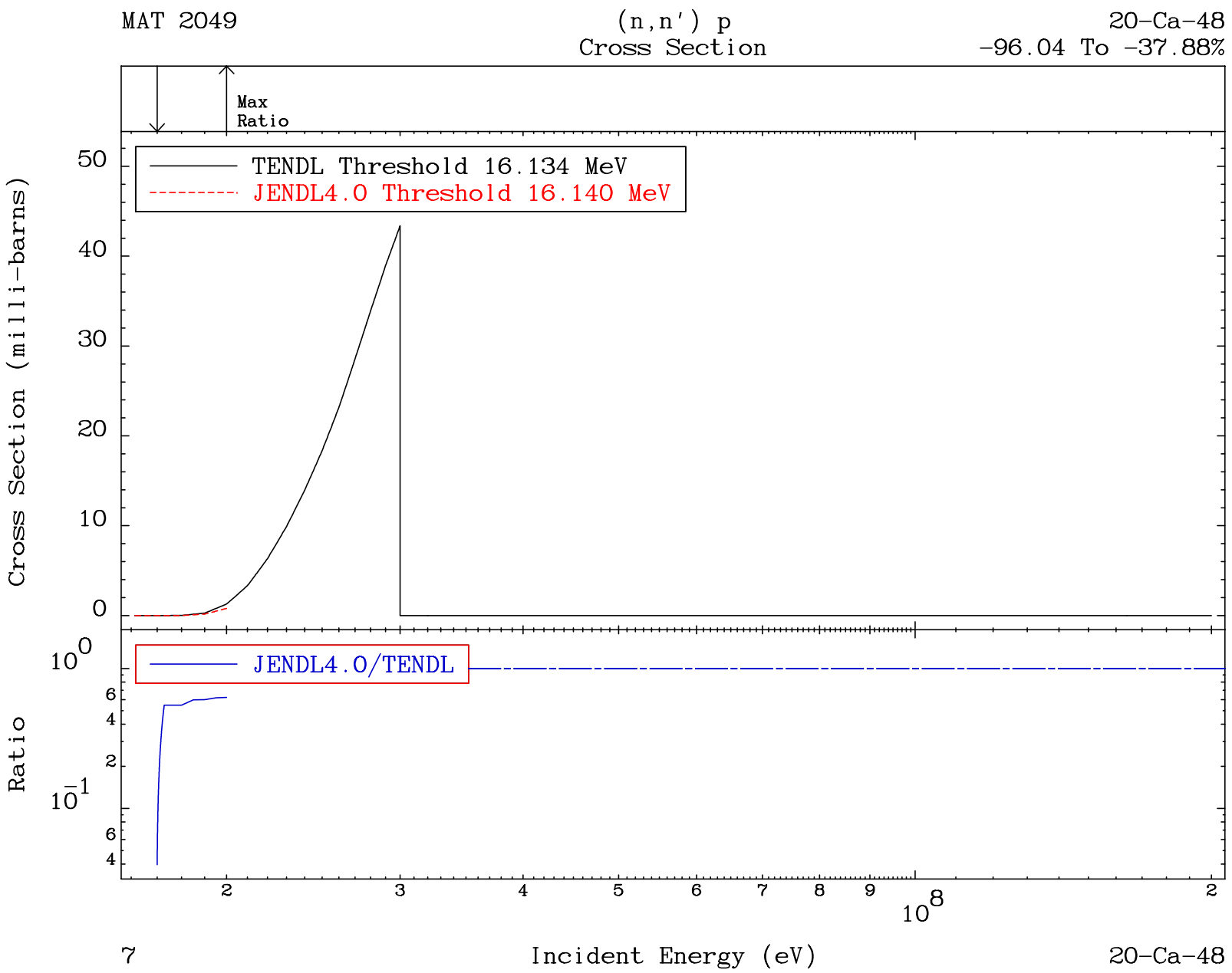

MAT 2049
Elastic
Cross Section
20-Ca-48
-99.99 To 1019. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
20-Ca-48

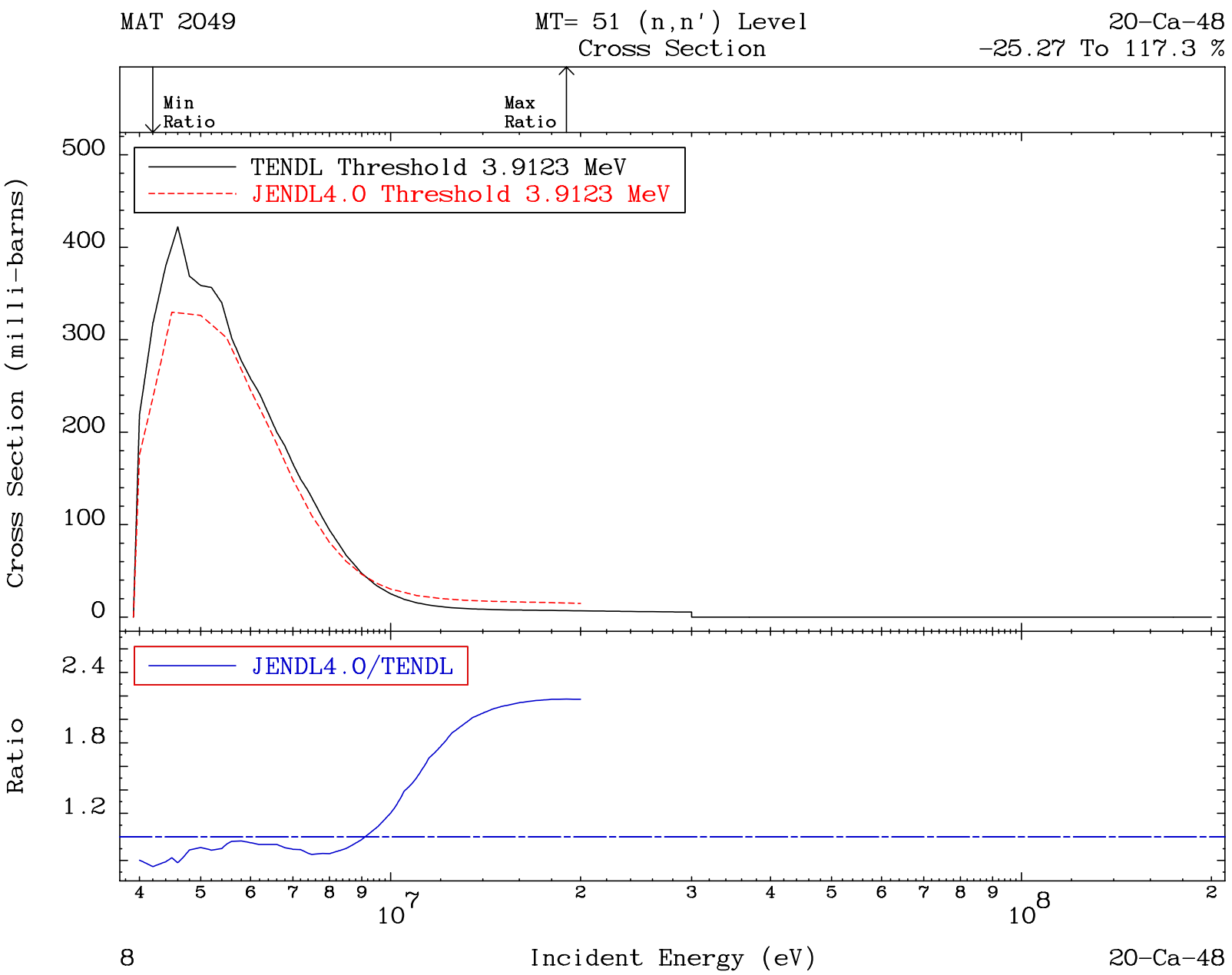

MAT 2049
Inelastic
Cross Section
20-Ca-48
-31.39 To 20.08 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.9123 MeV
JENDL4.0 Threshold 3.9123 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
3
Incident Energy (eV)
20-Ca-48

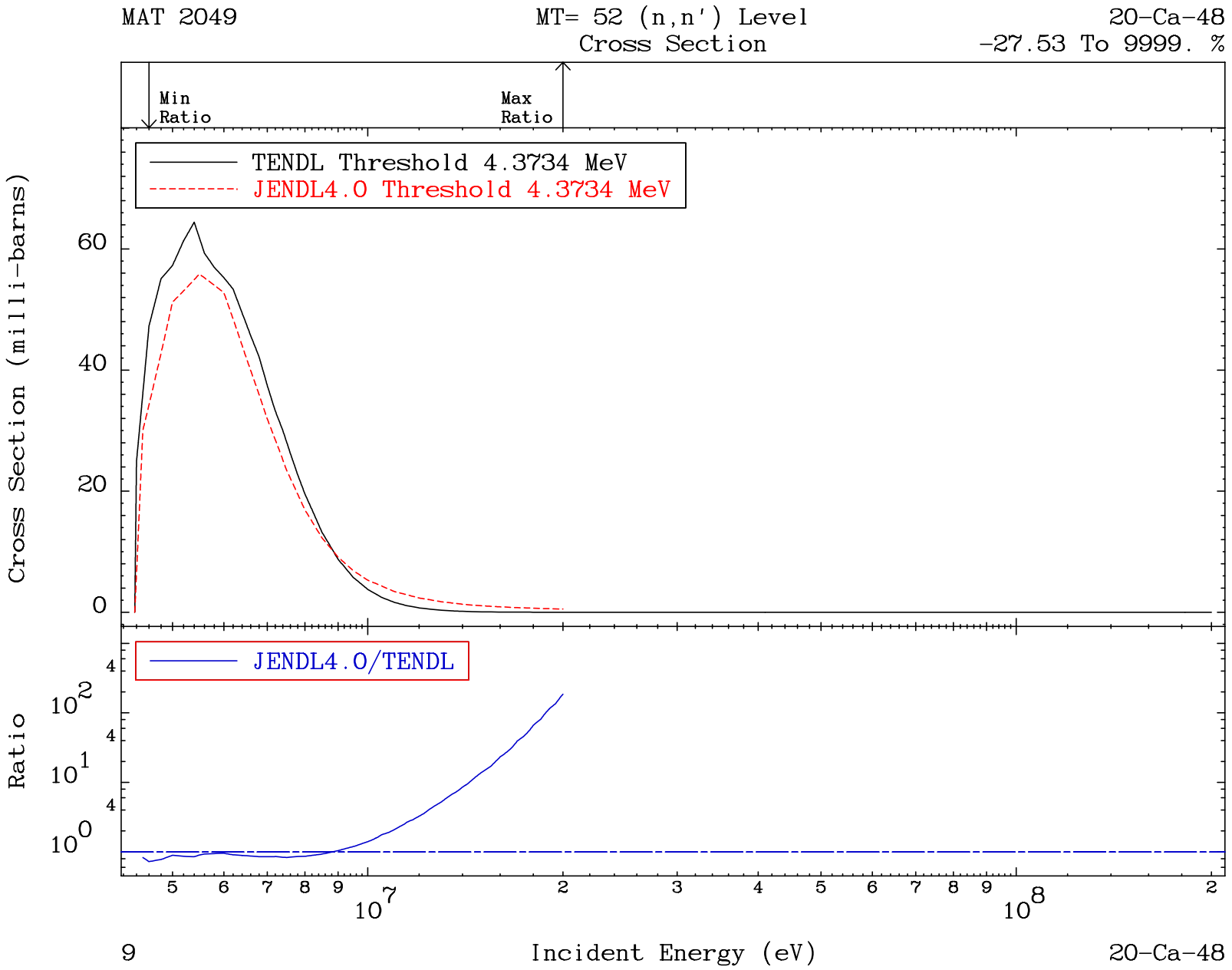

MAT 2049
(n,2n)
Cross Section
20-Ca-48
-24.12 To -10.41%
Min Ratio
Max Ratio
TENDL Threshold 10.161 MeV
JENDL4.0 Threshold 10.154 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
0.90
0.85
0.80
0.75
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
20-Ca-48

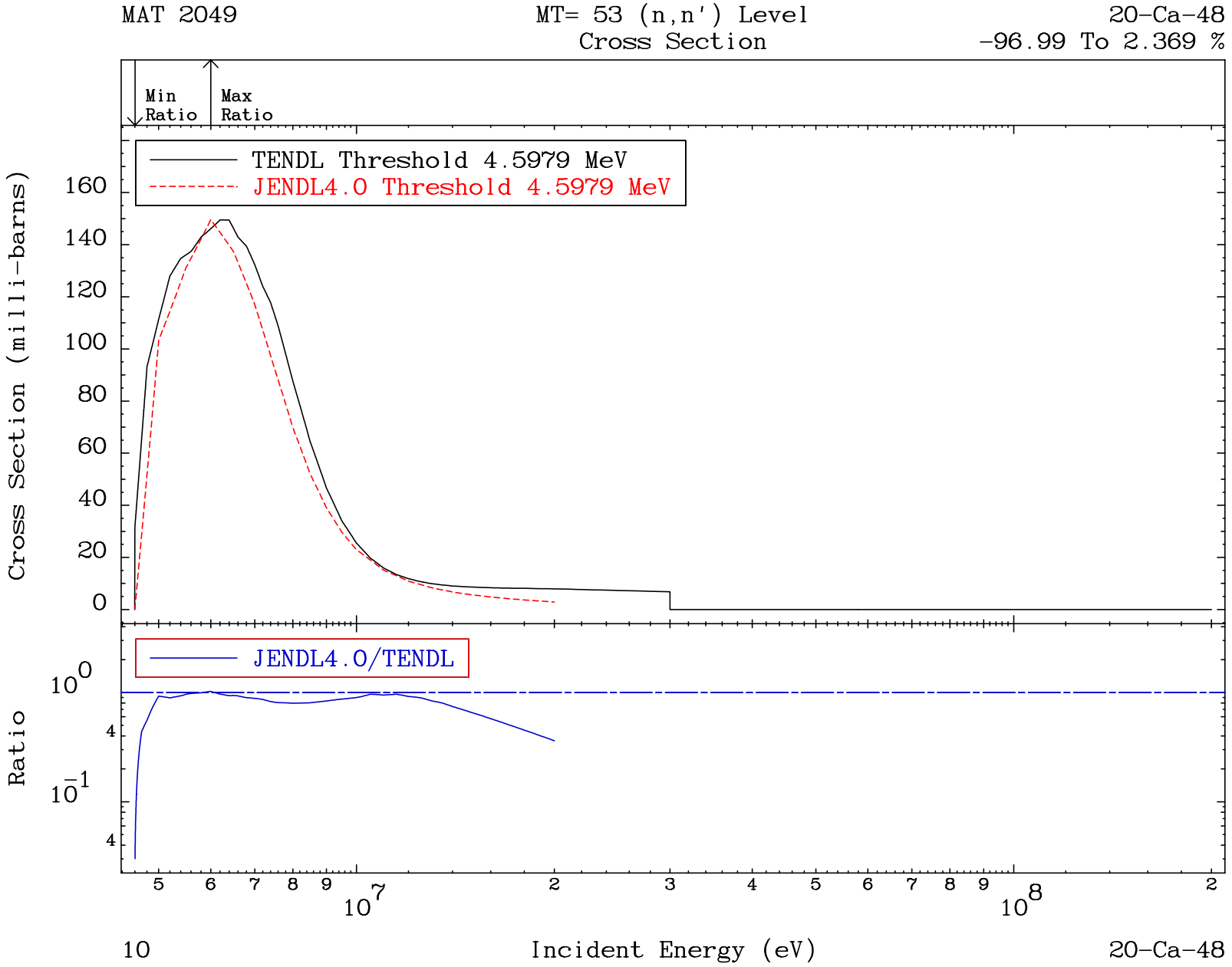

MAT 2049
(n,3n)
Cross Section
20-Ca-48
-9.643 To 2.296 %
Max
Ratio
TENDL Threshold 17.590 MeV
JENDL4.0 Threshold 17.583 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
1.05
1.00
0.95
0.90
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
20-Ca-48

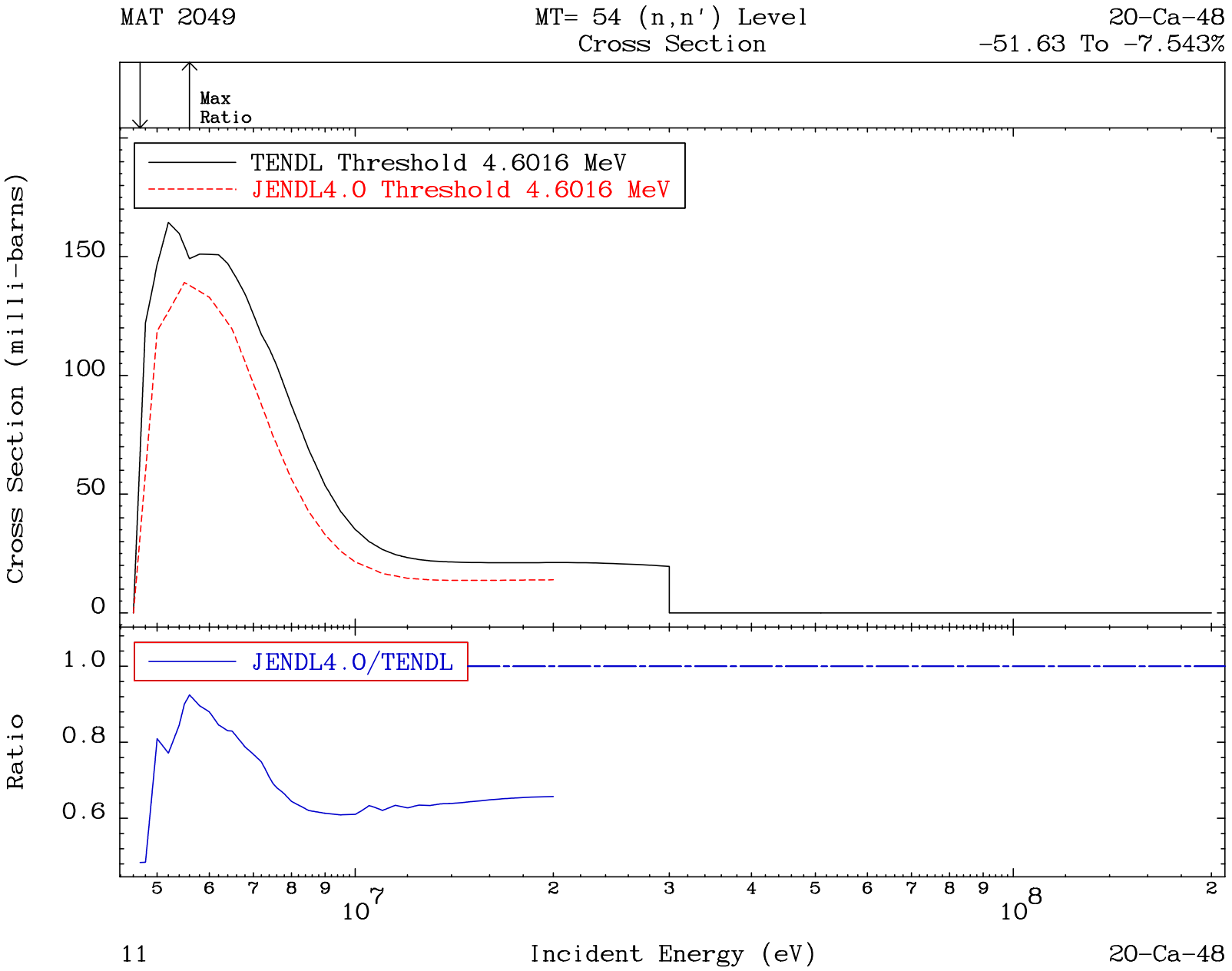

MAT 2049
(n,n') α
Cross Section
20-Ca-48
-95.22 To 9999. %
Min
Ratio
TENDL Threshold 14.271 MeV
JENDL4.0 Threshold 14.260 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
JENDL4.0/TENDL
Ratio
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
20-Ca-48

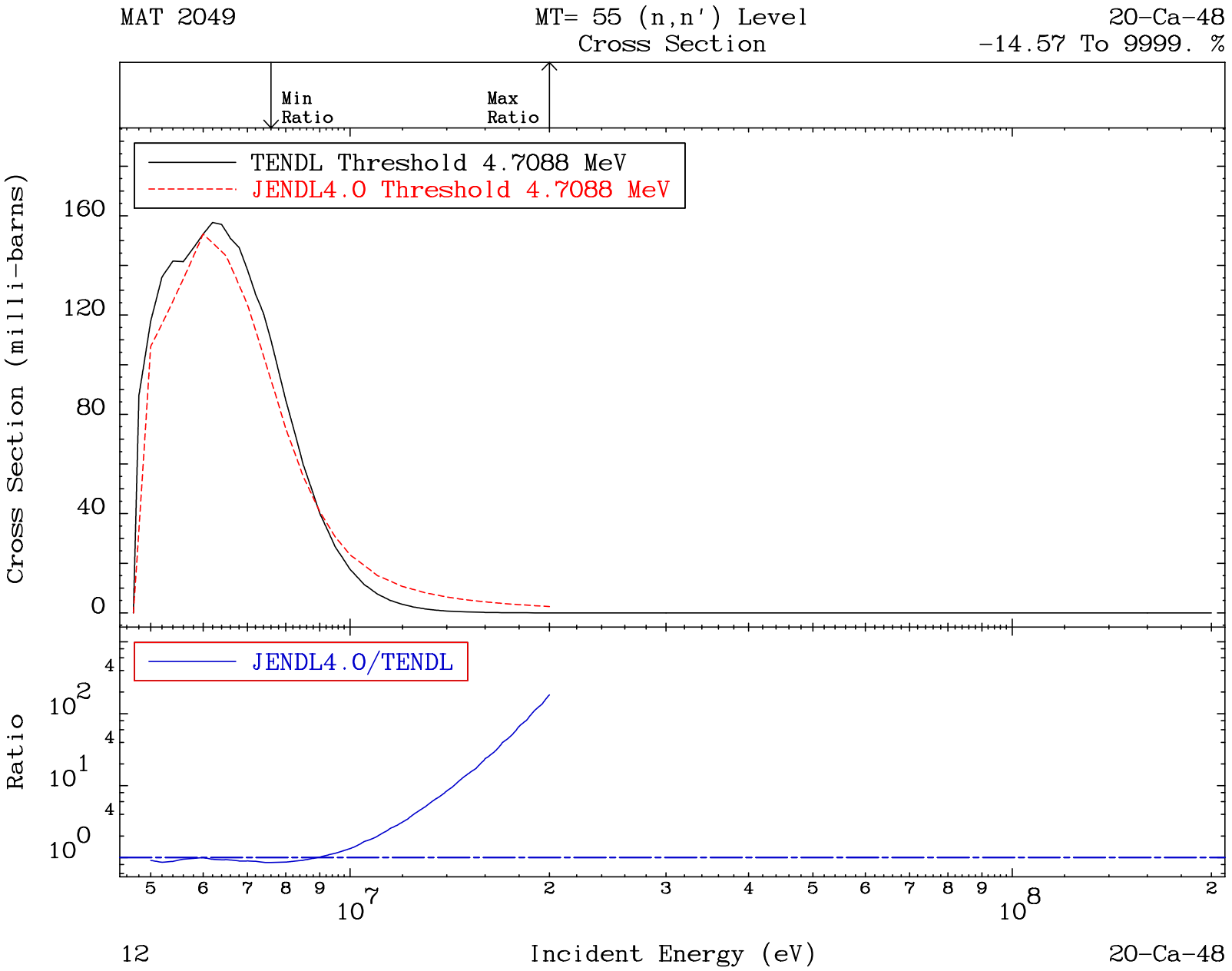

MAT 2049
(n,n') p
Cross Section
20-Ca-48
-96.04 To -37.88%
Max
Ratio
TENDL Threshold 16.134 MeV
JENDL4.0 Threshold 16.140 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
6
4
2
10^-1
6
4
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
20-Ca-48

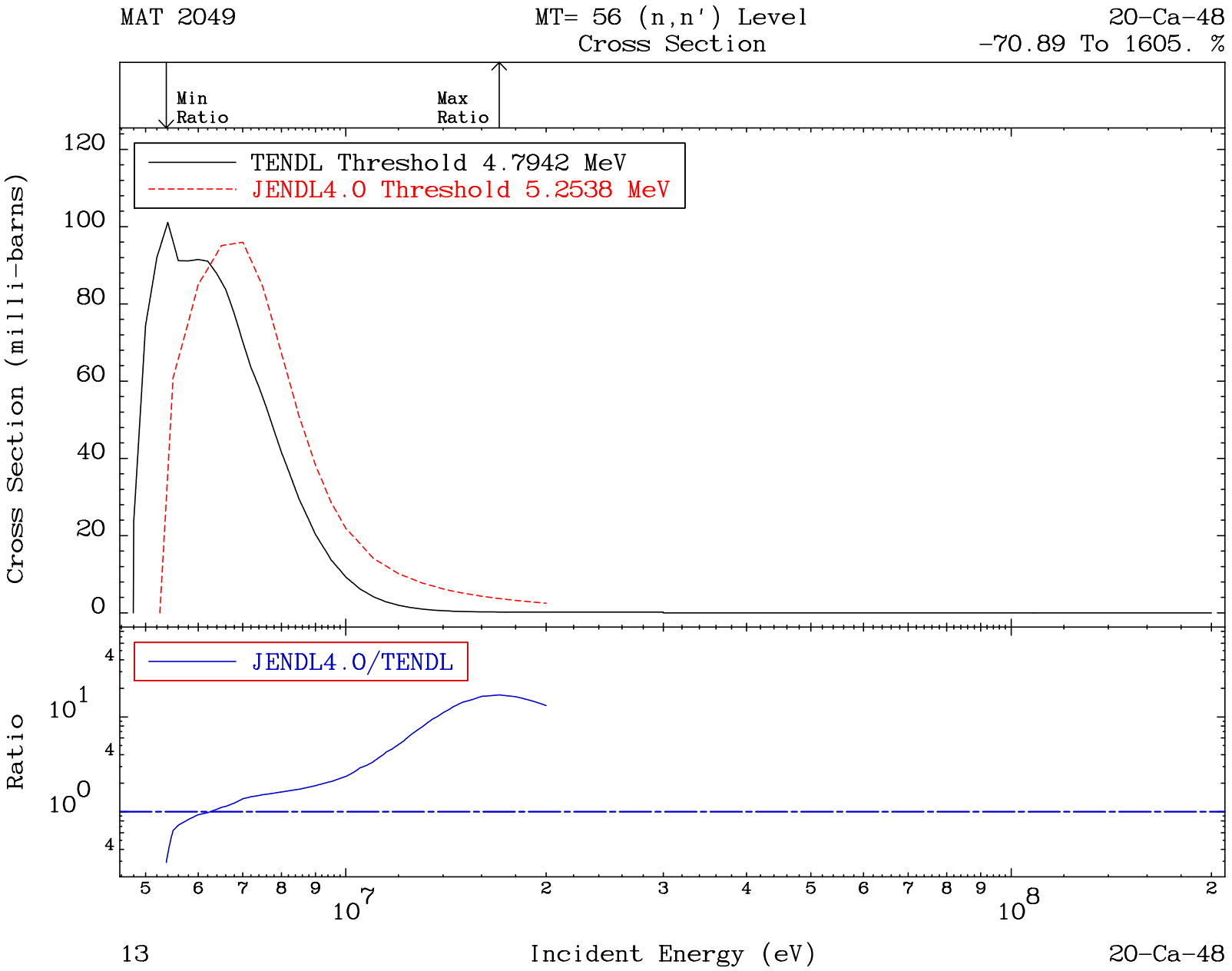

MAT 2049
MT= 51 (n,n') Level
Cross Section
20-Ca-48
-25.27 To 117.3 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.9123 MeV
JENDL4.0 Threshold 3.9123 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
2.4
1.8
1.2
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
8
20-Ca-48

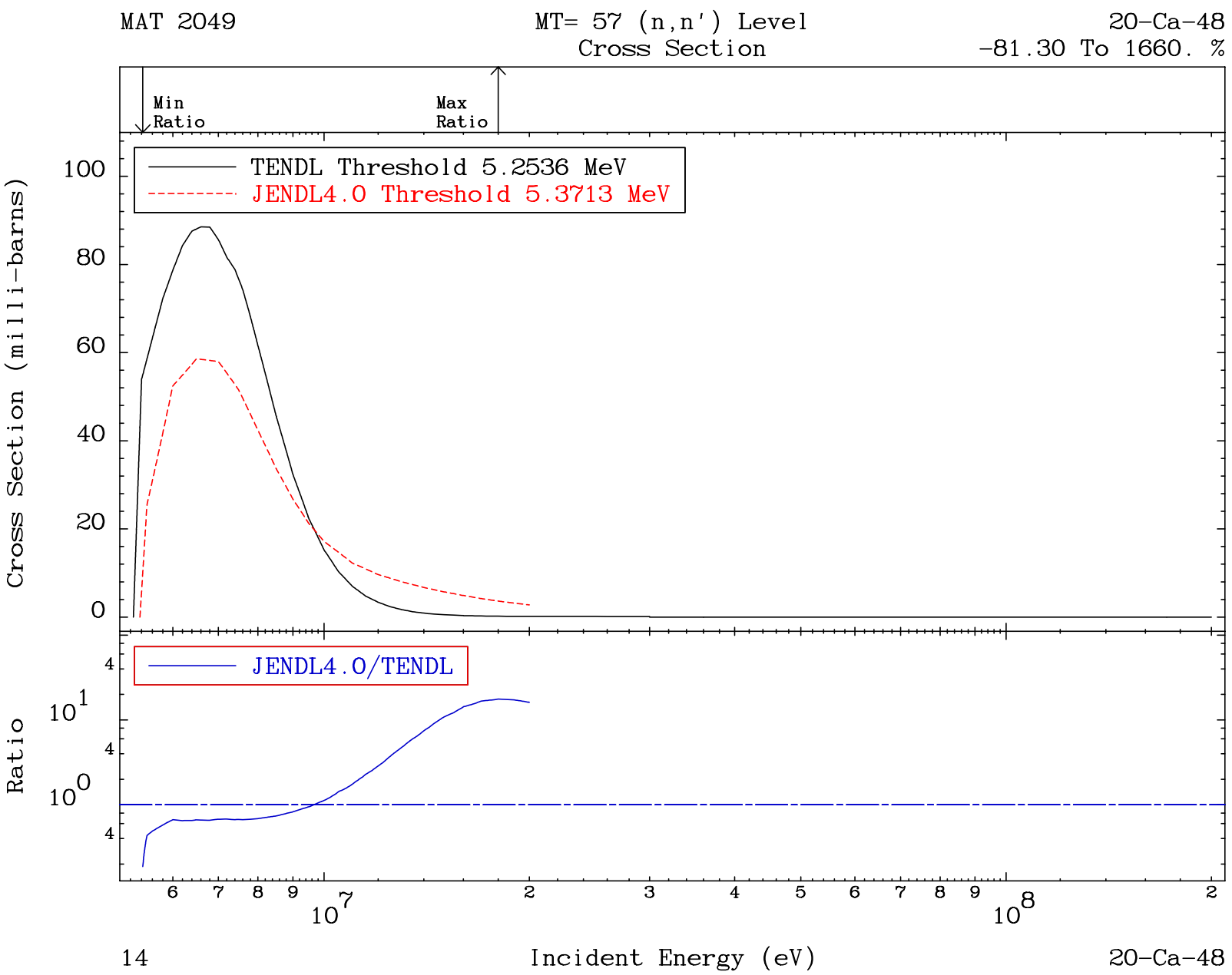

MAT 2049
MT= 52 (n,n') Level
Cross Section
20-Ca-48
-27.53 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 4.3734 MeV
JENDL4.0 Threshold 4.3734 MeV
Cross Section (milli-barns)
60
40
20
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
20-Ca-48

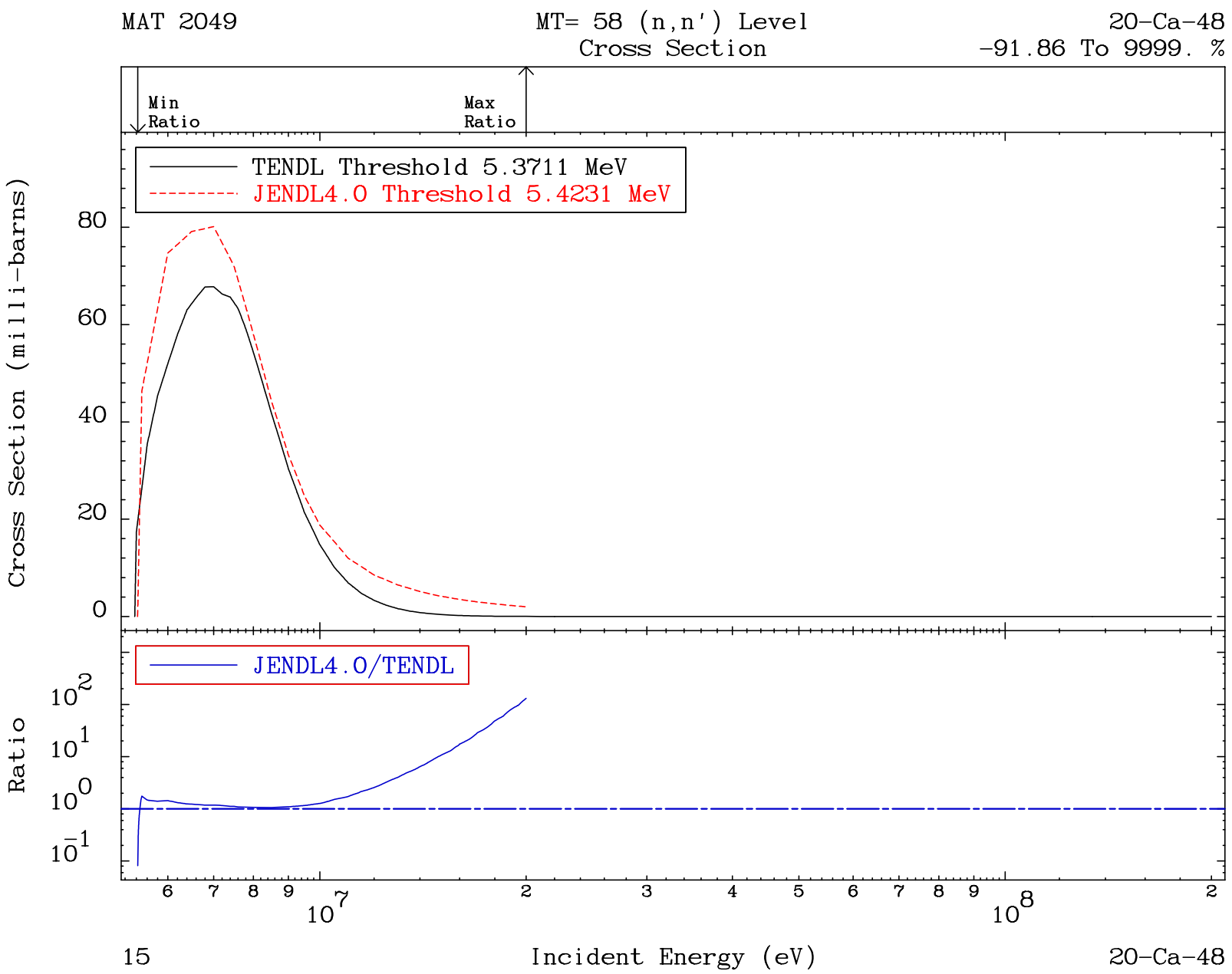

MAT 2049
MT= 53 (n,n') Level
Cross Section
20-Ca-48
-96.99 To 2.369 %
Min Ratio
Max Ratio
TENDL Threshold 4.5979 MeV
JENDL4.0 Threshold 4.5979 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
4
10^-1
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
20-Ca-48

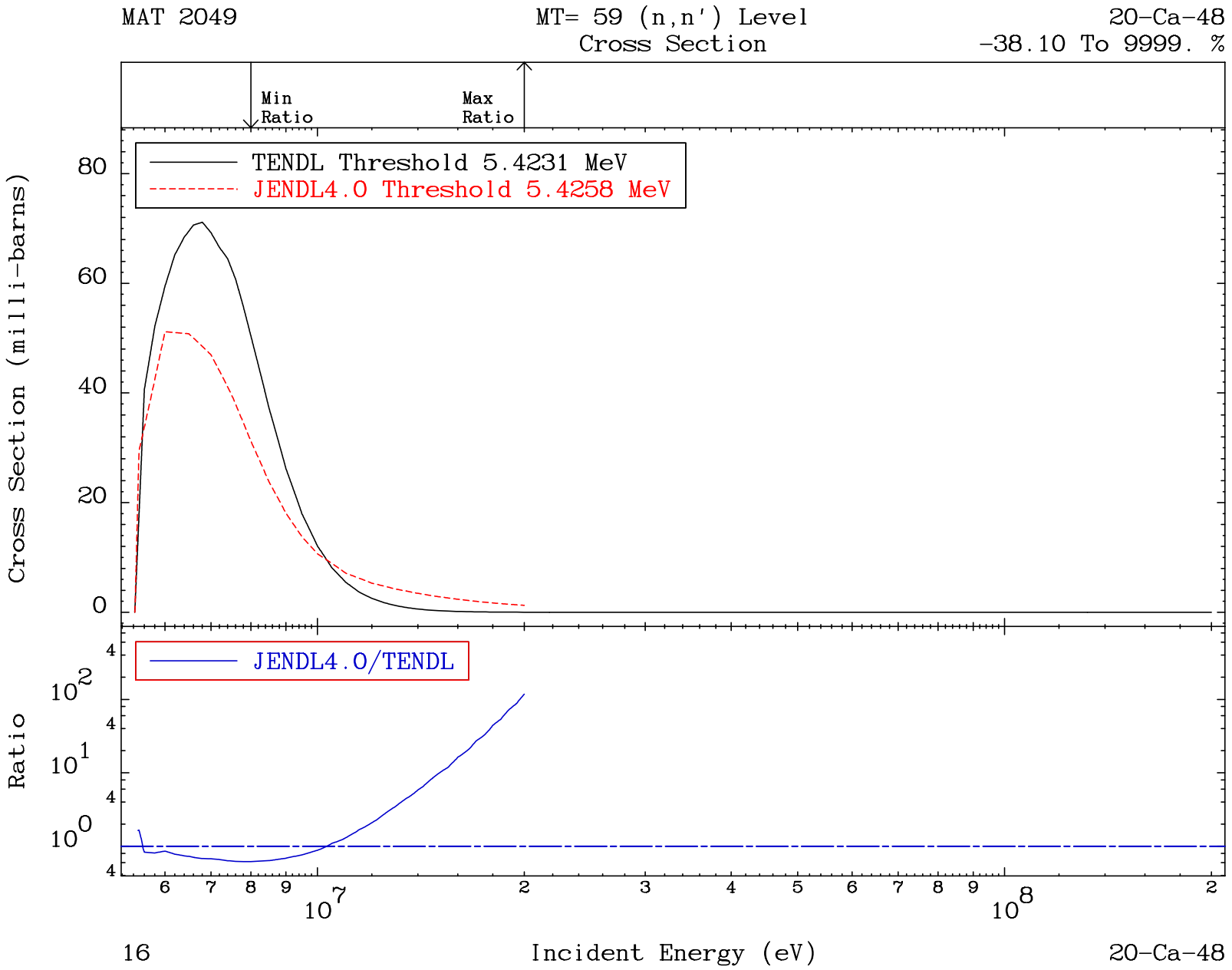

MAT 2049
MT= 54 (n,n') Level
Cross Section
20-Ca-48
-51.63 To -7.543%
Max
Ratio
TENDL Threshold 4.6016 MeV
JENDL4.0 Threshold 4.6016 MeV
Cross Section (milli-barns)
150
100
50
0
JENDL4.0/TENDL
Ratio
1.0
0.8
0.6
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
20-Ca-48

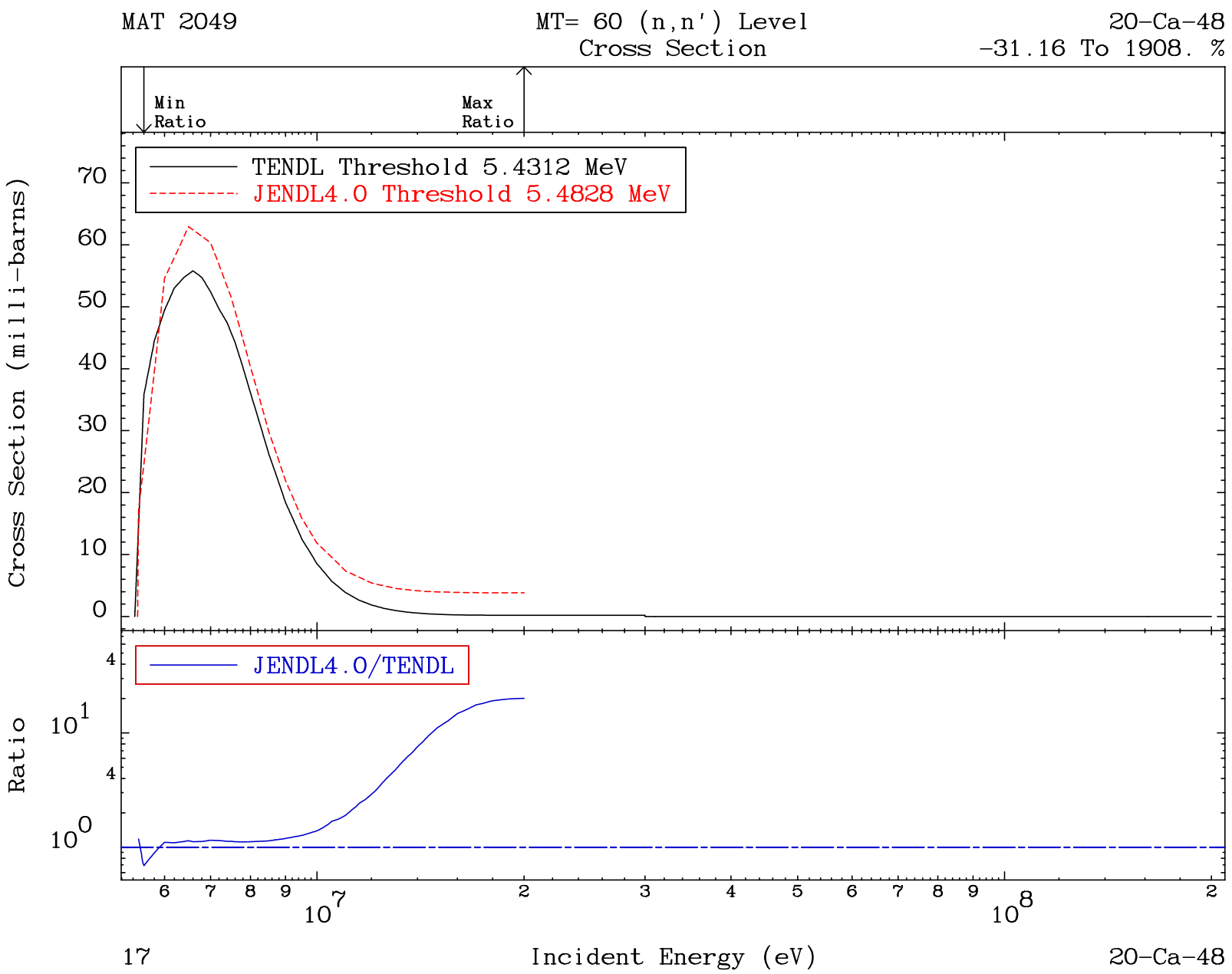

MAT 2049
MT= 55 (n,n') Level
Cross Section
20-Ca-48
-14.57 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 4.7088 MeV
JENDL4.0 Threshold 4.7088 MeV
Cross Section (milli-barns)
160
120
80
40
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
12
Incident Energy (eV)
20-Ca-48

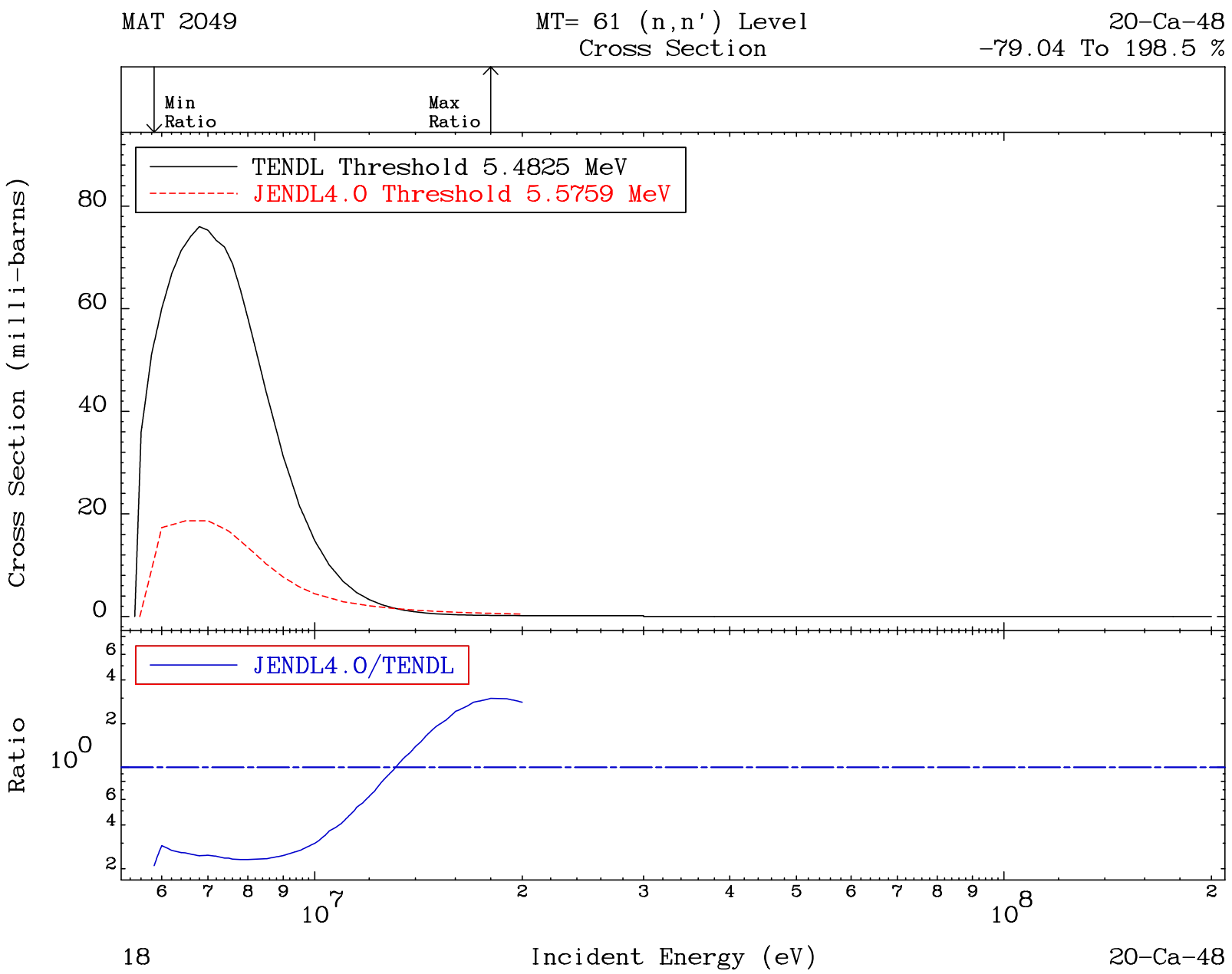

MAT 2049
MT= 56 (n,n') Level
Cross Section
20-Ca-48
-70.89 To 1605. %
Min Ratio
Max Ratio
TENDL Threshold 4.7942 MeV
JENDL4.0 Threshold 5.2538 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^1
10^0
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
20-Ca-48

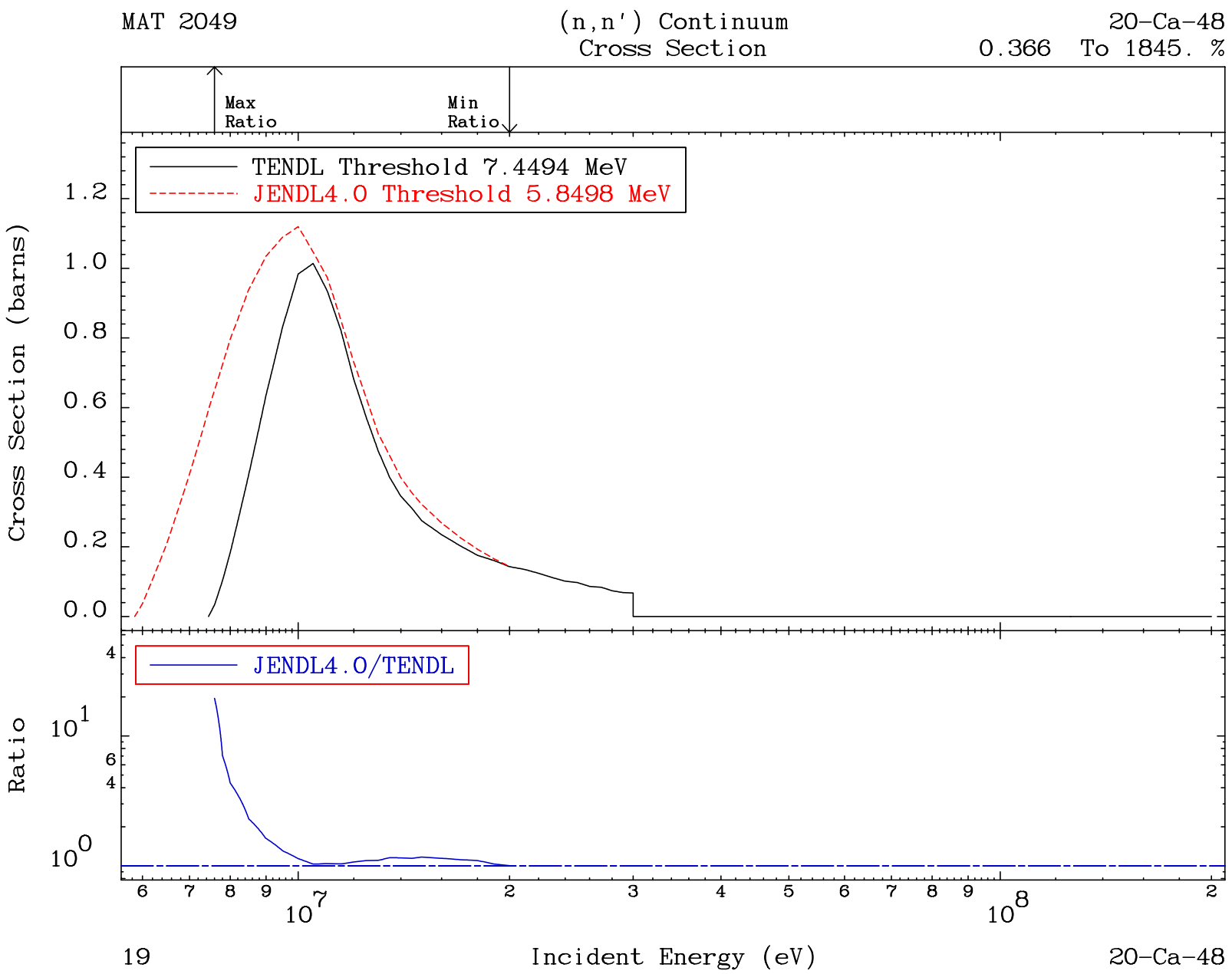

MAT 2049
MT= 57 (n,n') Level
Cross Section
20-Ca-48
-81.30 To 1660. %
Min
Ratio
Max
Ratio
TENDL Threshold 5.2536 MeV
JENDL4.0 Threshold 5.3713 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
10^1
4
10^0
4
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
20-Ca-48

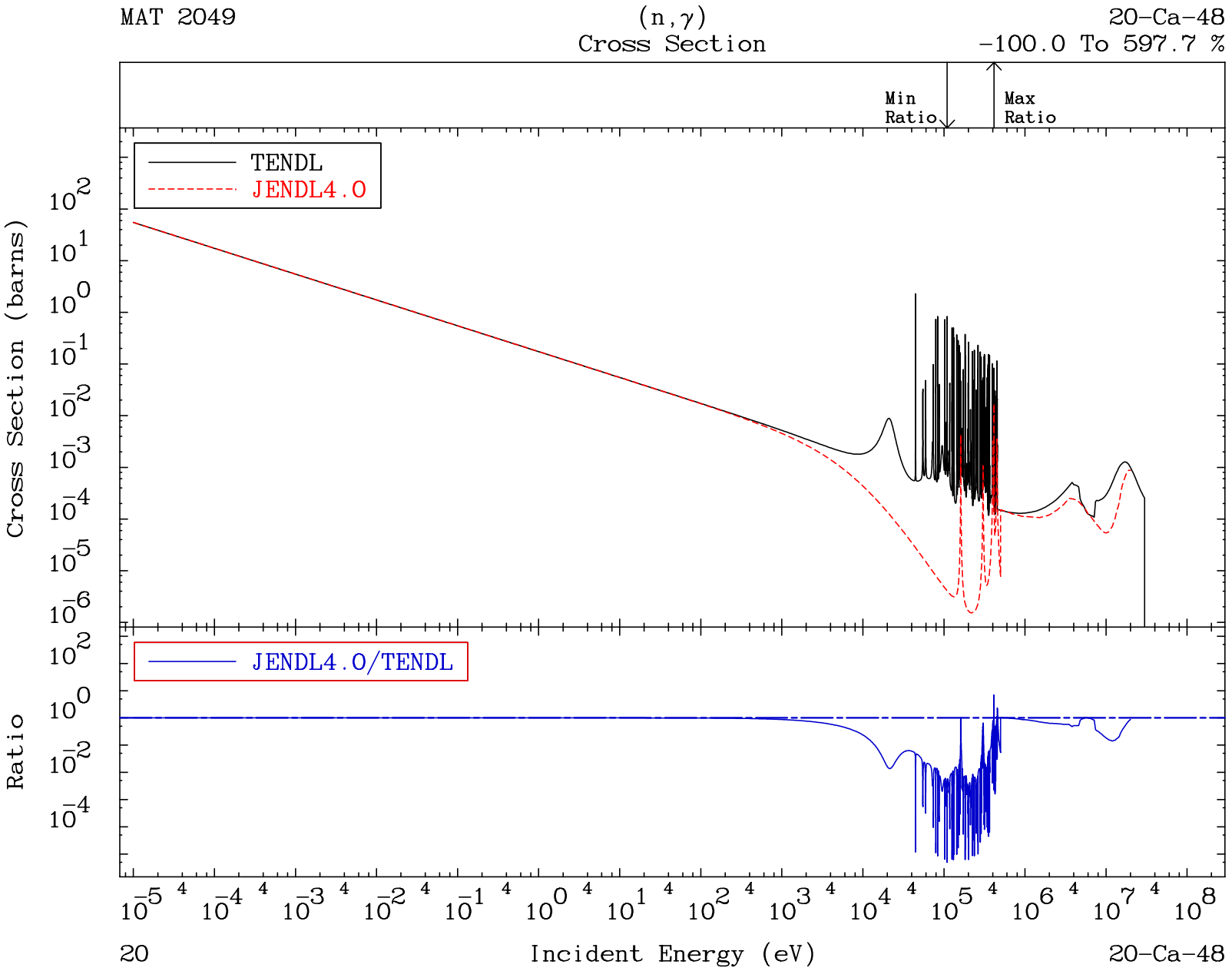

MAT 2049
MT= 58 (n,n') Level
Cross Section
20-Ca-48
-91.86 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 5.3711 MeV
JENDL4.0 Threshold 5.4231 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
10^-1
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
15
Incident Energy (eV)
20-Ca-48

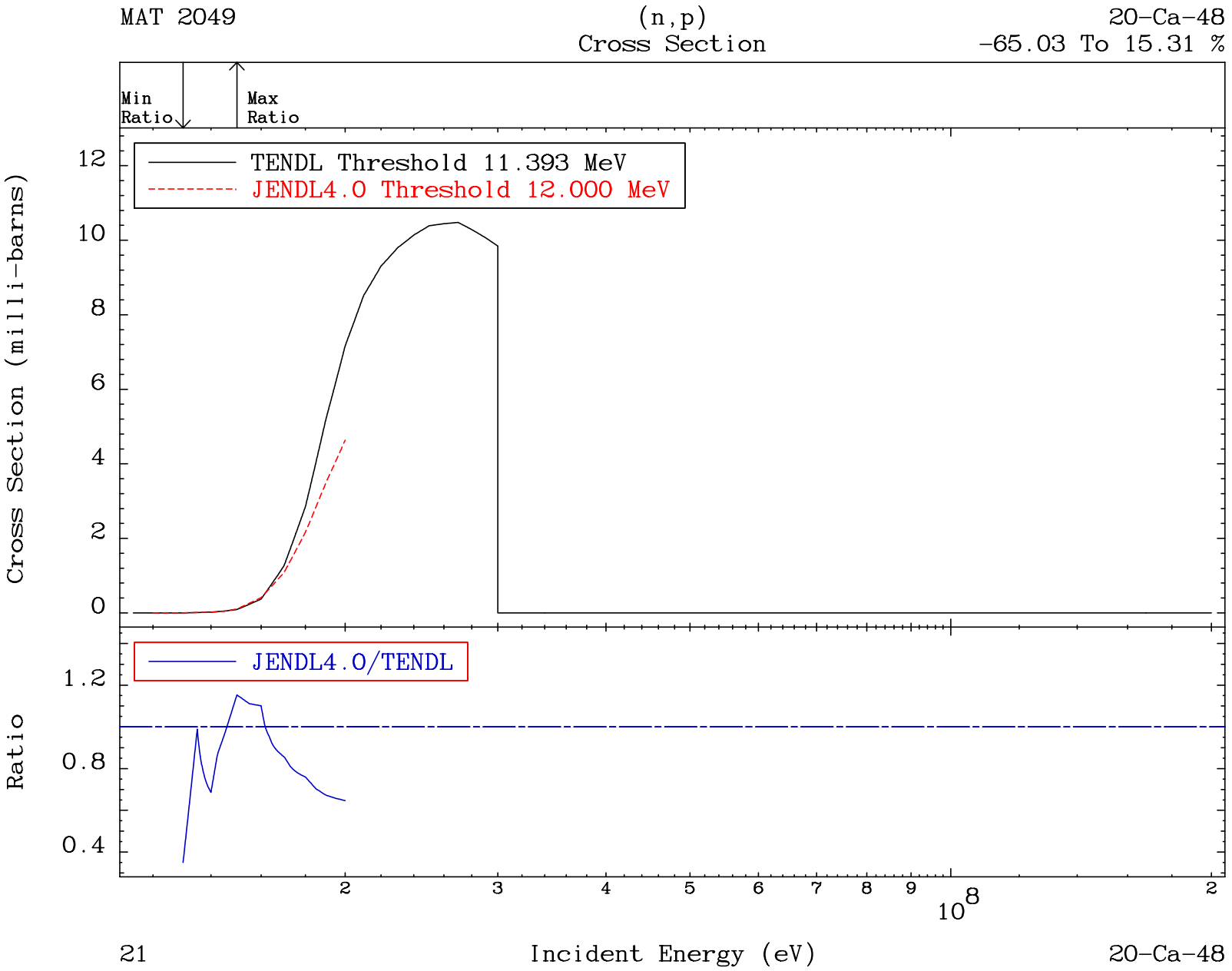

MAT 2049
MT= 59 (n,n') Level
Cross Section
20-Ca-48
-38.10 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.4231 MeV
JENDL4.0 Threshold 5.4258 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
16
20-Ca-48

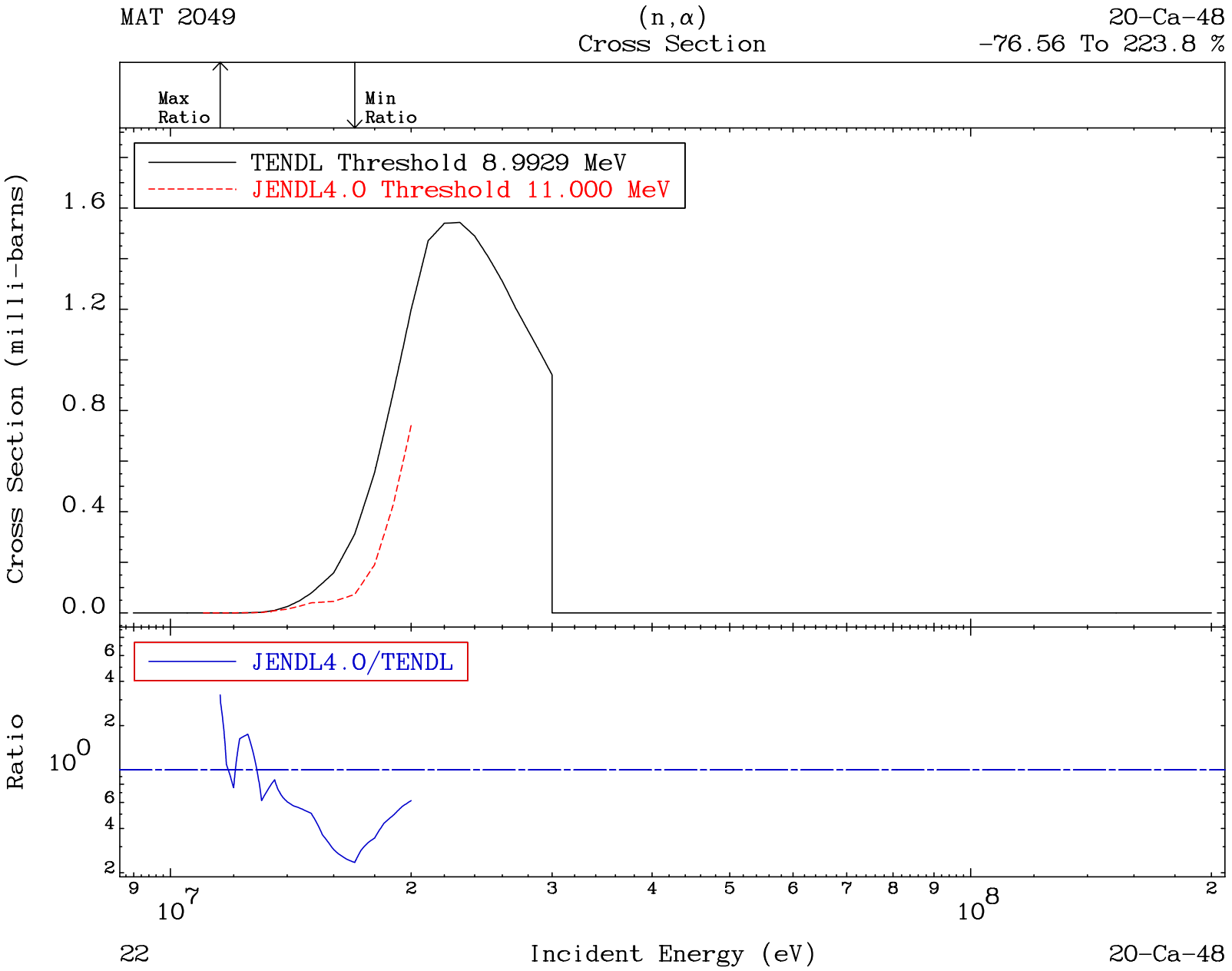

MAT 2049
MT= 60 (n,n') Level
Cross Section
20-Ca-48
-31.16 To 1908. %
Min
Ratio
Max
Ratio
TENDL Threshold 5.4312 MeV
JENDL4.0 Threshold 5.4828 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
4
10^1
4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
20-Ca-48

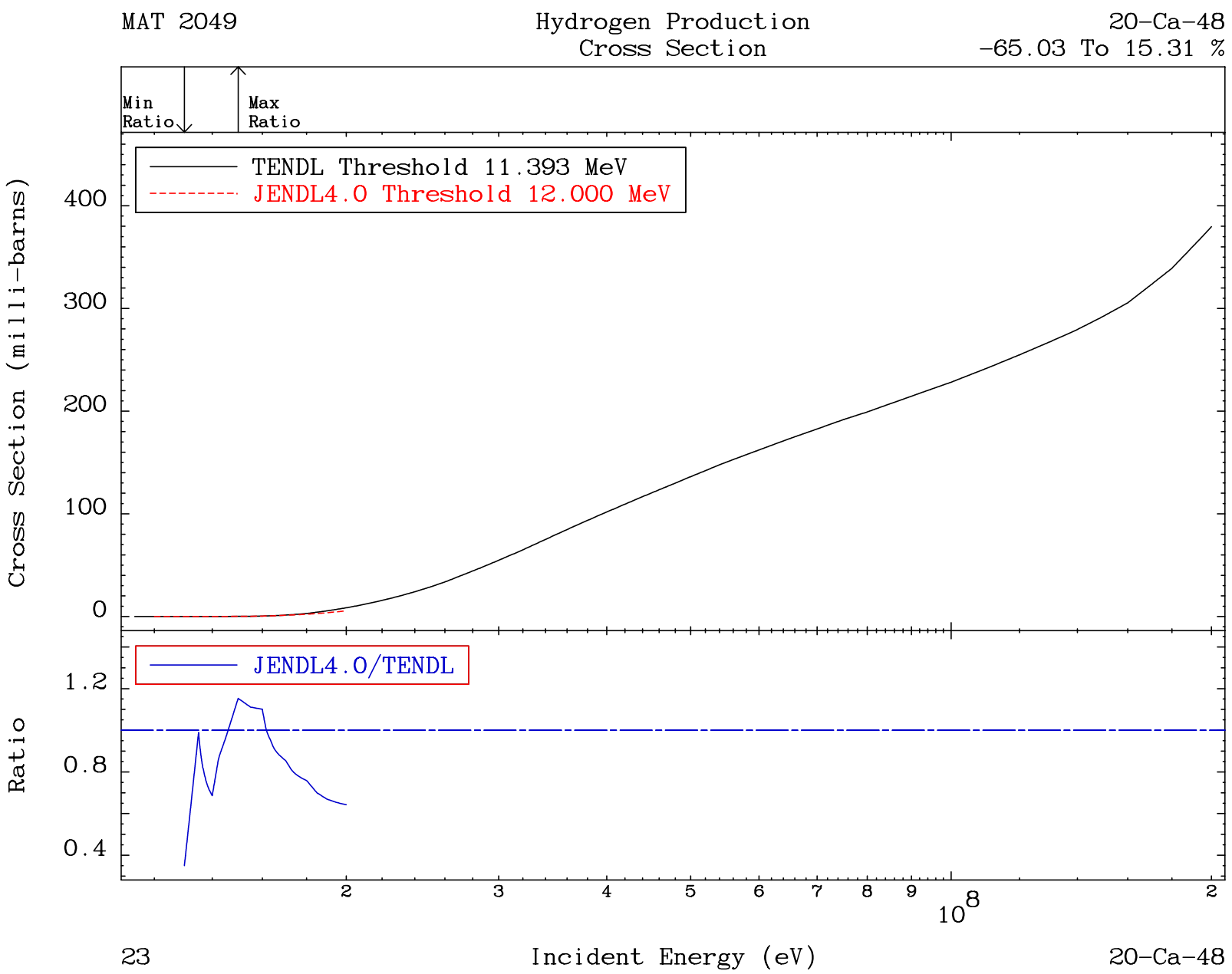

MAT 2049
MT= 61 (n,n') Level
Cross Section
20-Ca-48
-79.04 To 198.5 %
Min
Ratio
Max
Ratio
TENDL Threshold 5.4825 MeV
JENDL4.0 Threshold 5.5759 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
6
4
2
10^0
6
4
2
6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
18
Incident Energy (eV)
20-Ca-48

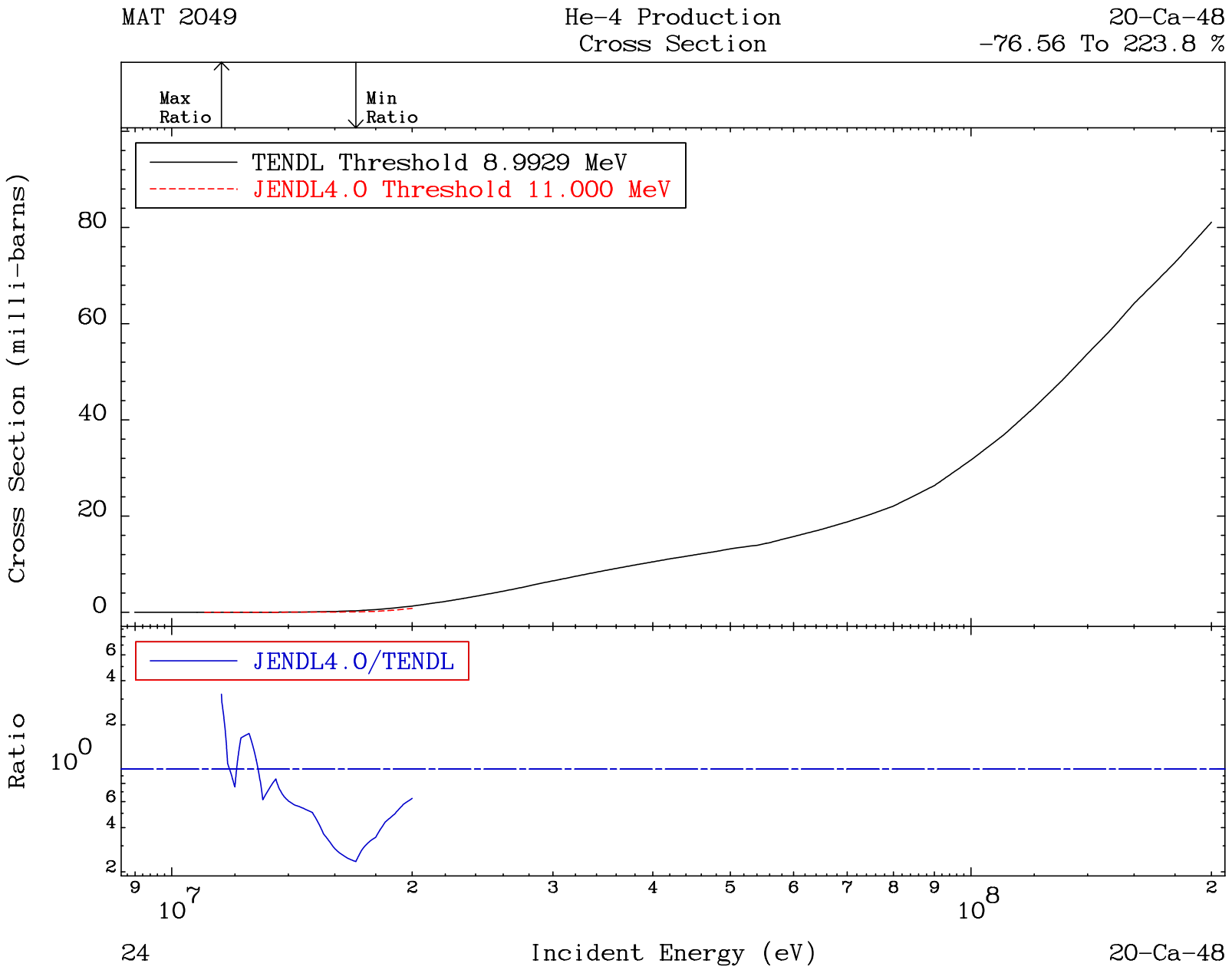

MAT 2049
(n,n') Continuum
Cross Section
20-Ca-48
0.366 To 1845. %
Max Ratio
Min Ratio
TENDL Threshold 7.4494 MeV
JENDL4.0 Threshold 5.8498 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
4
10^1
6
4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
20-Ca-48

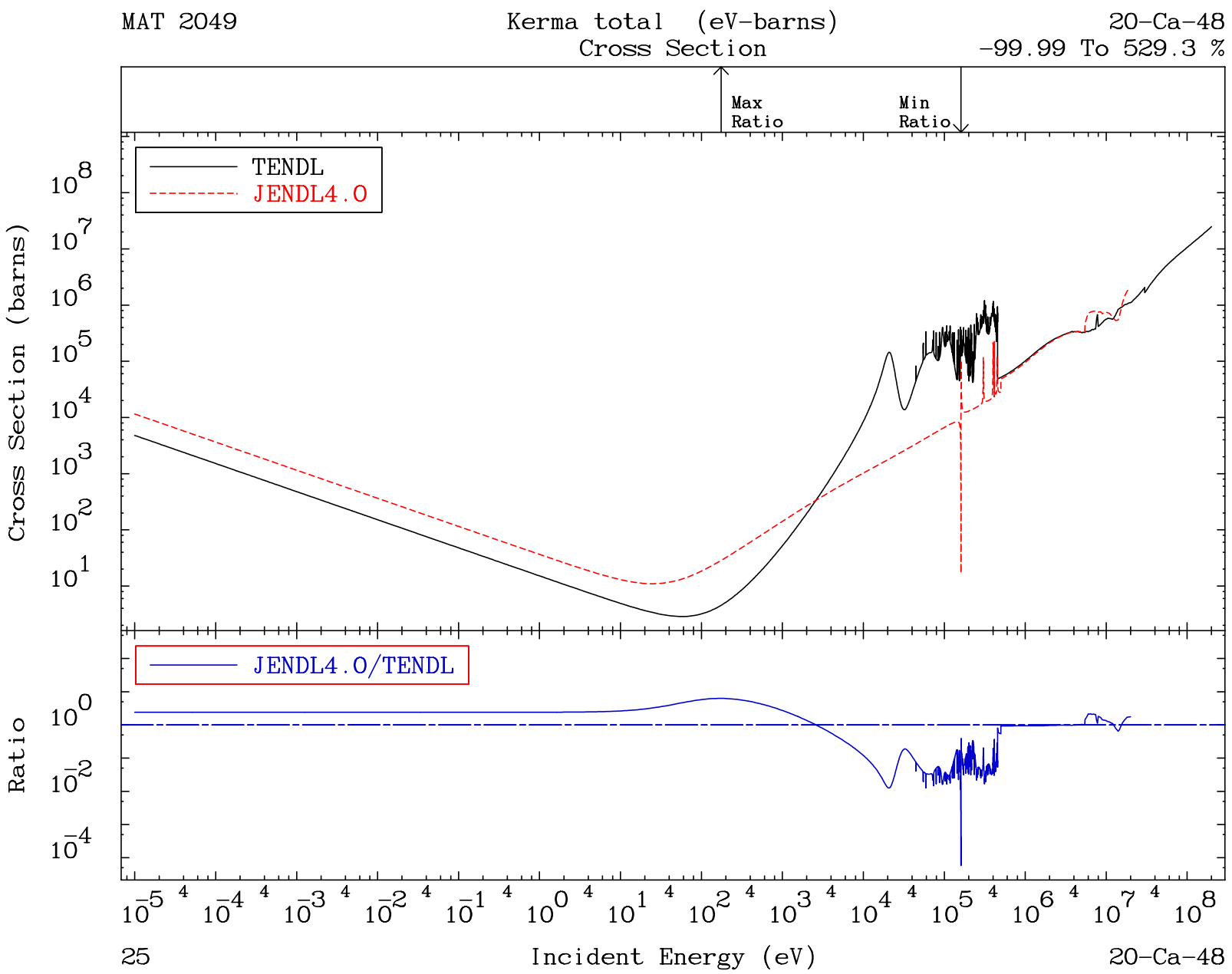

MAT 2049
(n,γ)
Cross Section
20-Ca-48
-100.0 To 597.7 %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
20
20-Ca-48

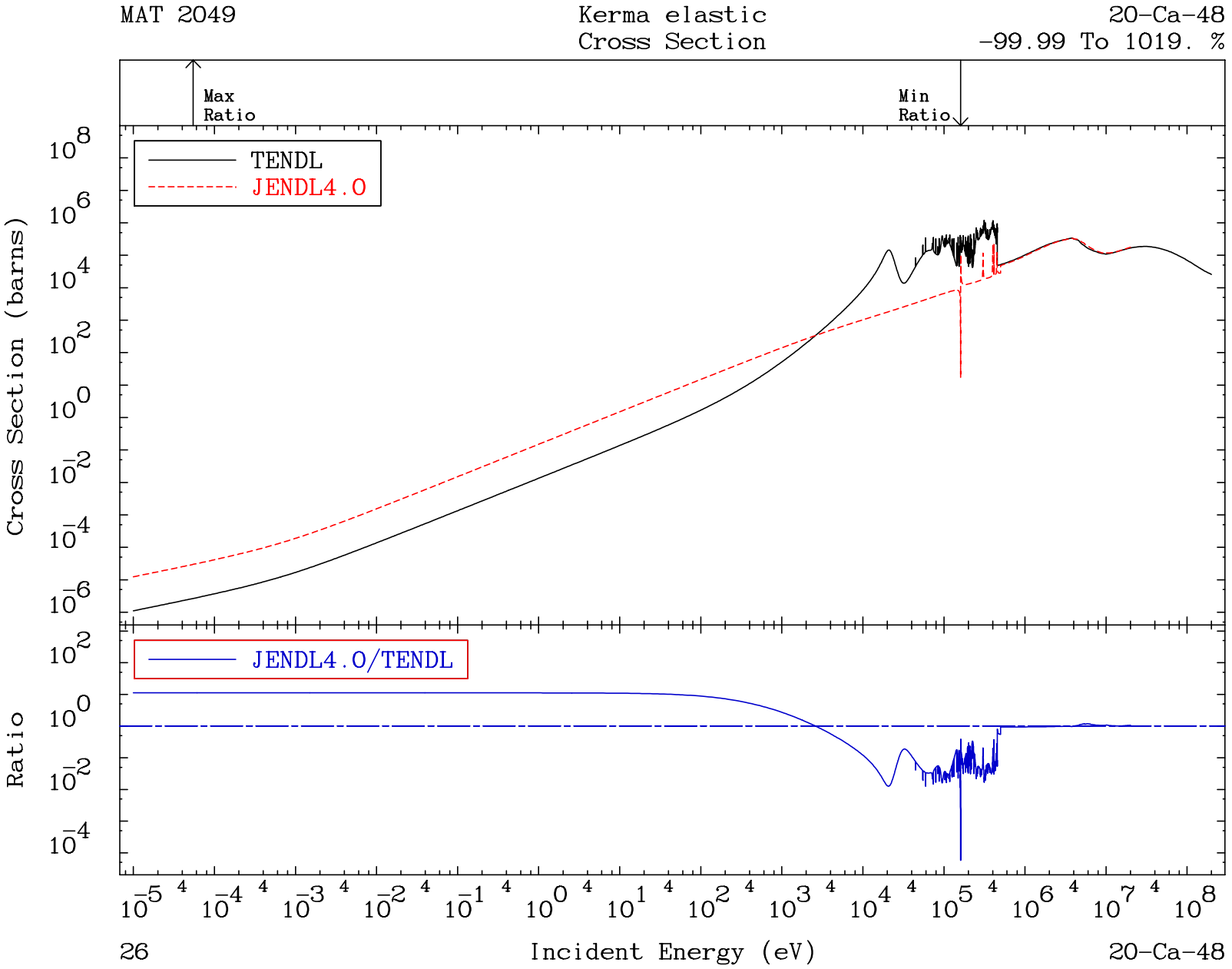

MAT 2049
(n,p)
Cross Section
20-Ca-48
-65.03 To 15.31 %
Min Ratio
Max Ratio
TENDL Threshold 11.393 MeV
JENDL4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
JENDL4.0/TENDL
Ratio
0.4
0.8
1.2
2
3
4
5
6
7
8
9
10^8
2
21
Incident Energy (eV)
20-Ca-48

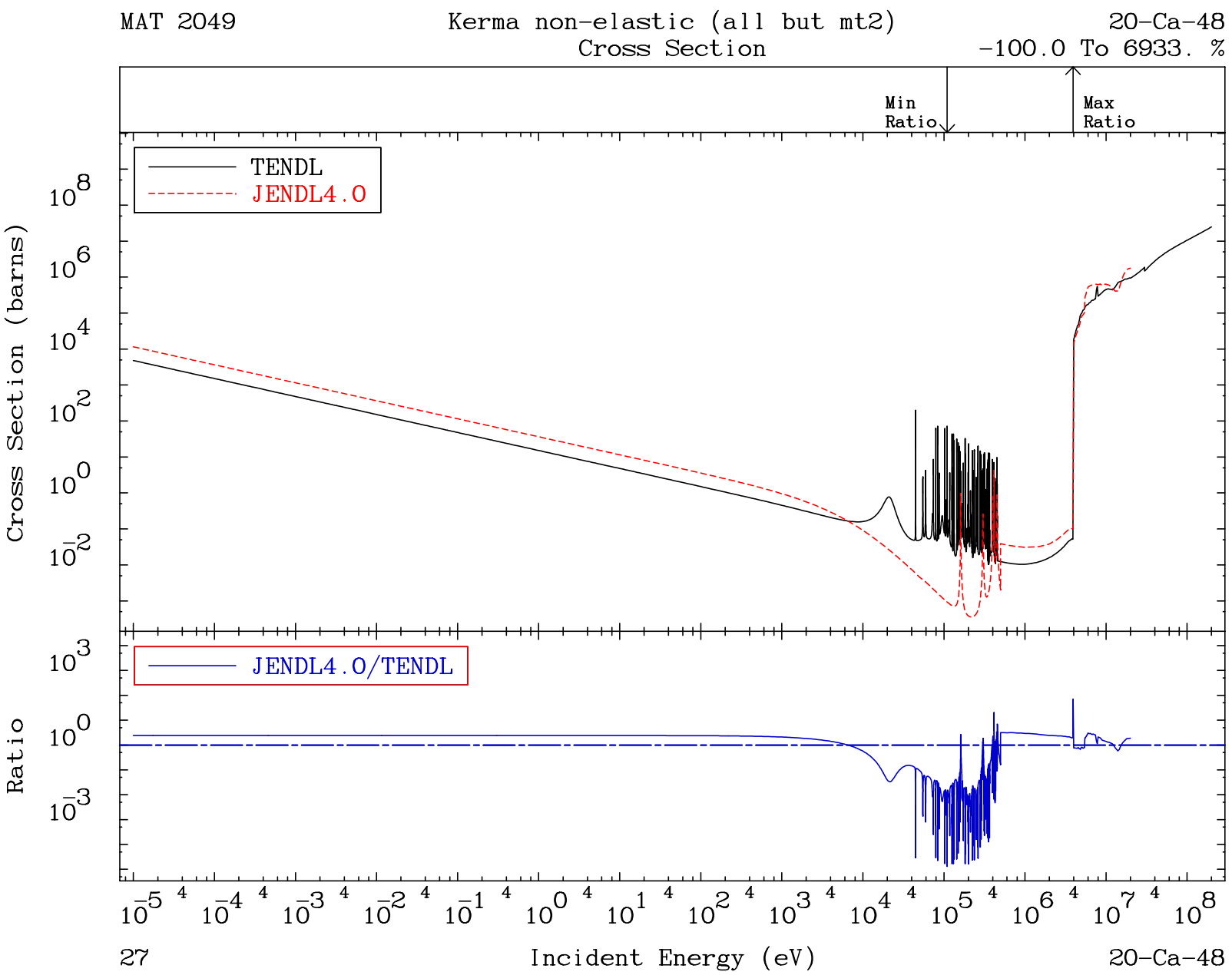

MAT 2049
(n,α)
Cross Section
20-Ca-48
-76.56 To 223.8 %
Max Ratio
Min Ratio
TENDL Threshold 8.9929 MeV
JENDL4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
JENDL4.0/TENDL
Ratio
10^0
6
4
2
6
4
2
9
10^7
2
3
4
5
6
7
8
9
10^8
2
22
Incident Energy (eV)
20-Ca-48

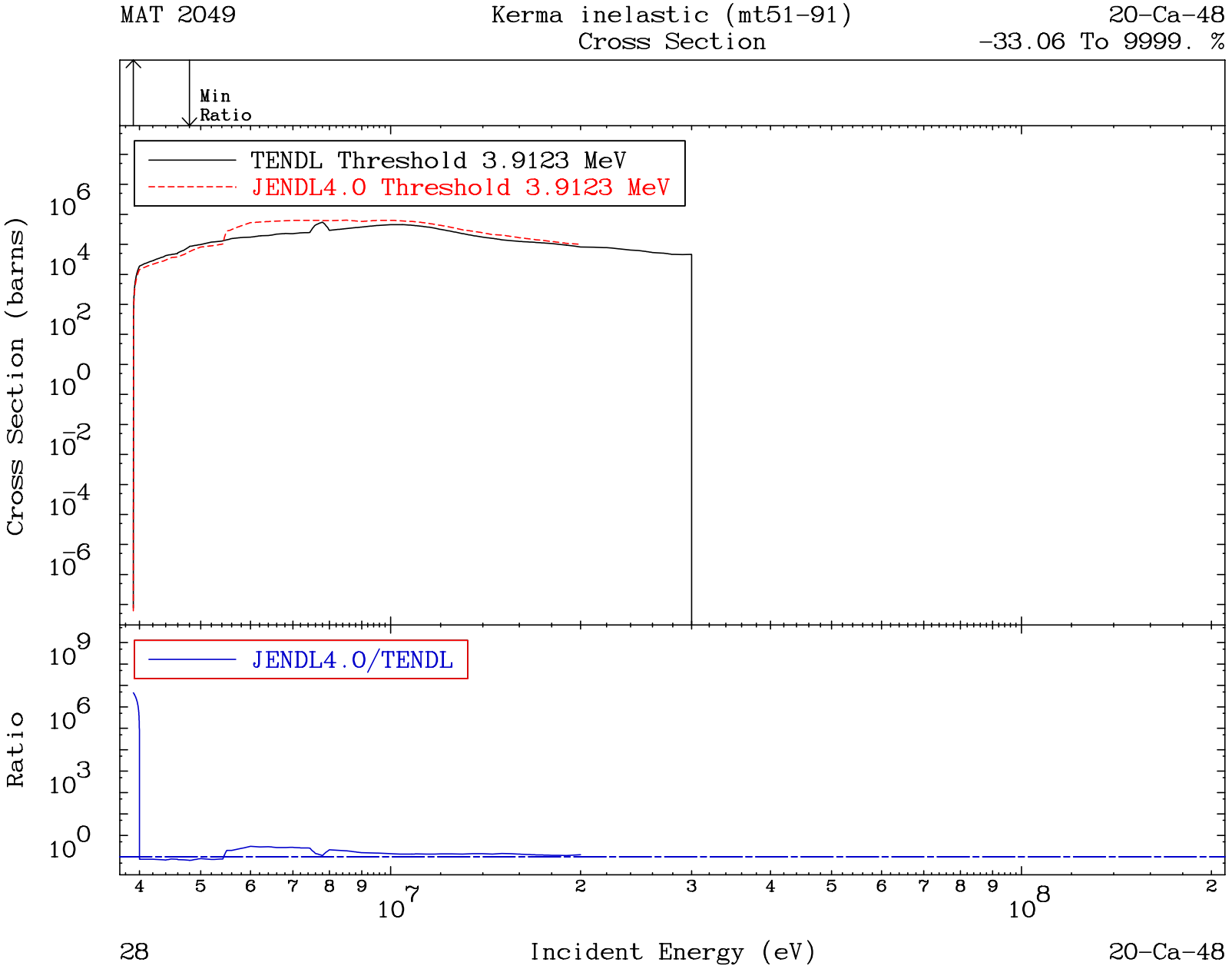

MAT 2049
Hydrogen Production
Cross Section
20-Ca-48
-65.03 To 15.31 %
Min Ratio
Max Ratio
TENDL Threshold 11.393 MeV
JENDL4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
20-Ca-48

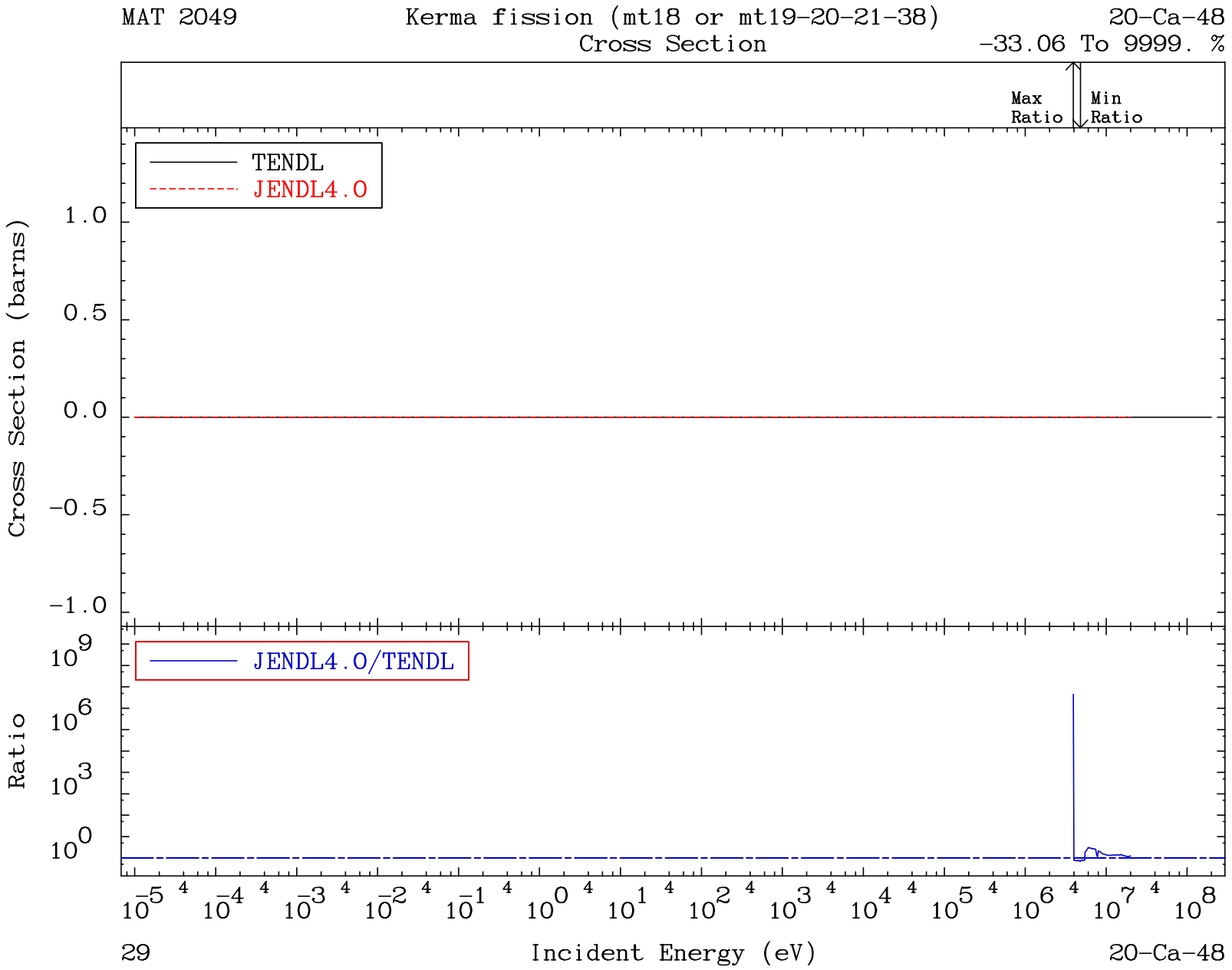

MAT 2049
He-4 Production
Cross Section
20-Ca-48
-76.56 To 223.8 %
Max Ratio
Min Ratio
TENDL Threshold 8.9929 MeV
JENDL4.0 Threshold 11.000 MeV
Cross Section (milli-barns)
0
20
40
60
80
JENDL4.0/TENDL
Ratio
10^0
2
4
6
10^7
10^8
Incident Energy (eV)
24
20-Ca-48

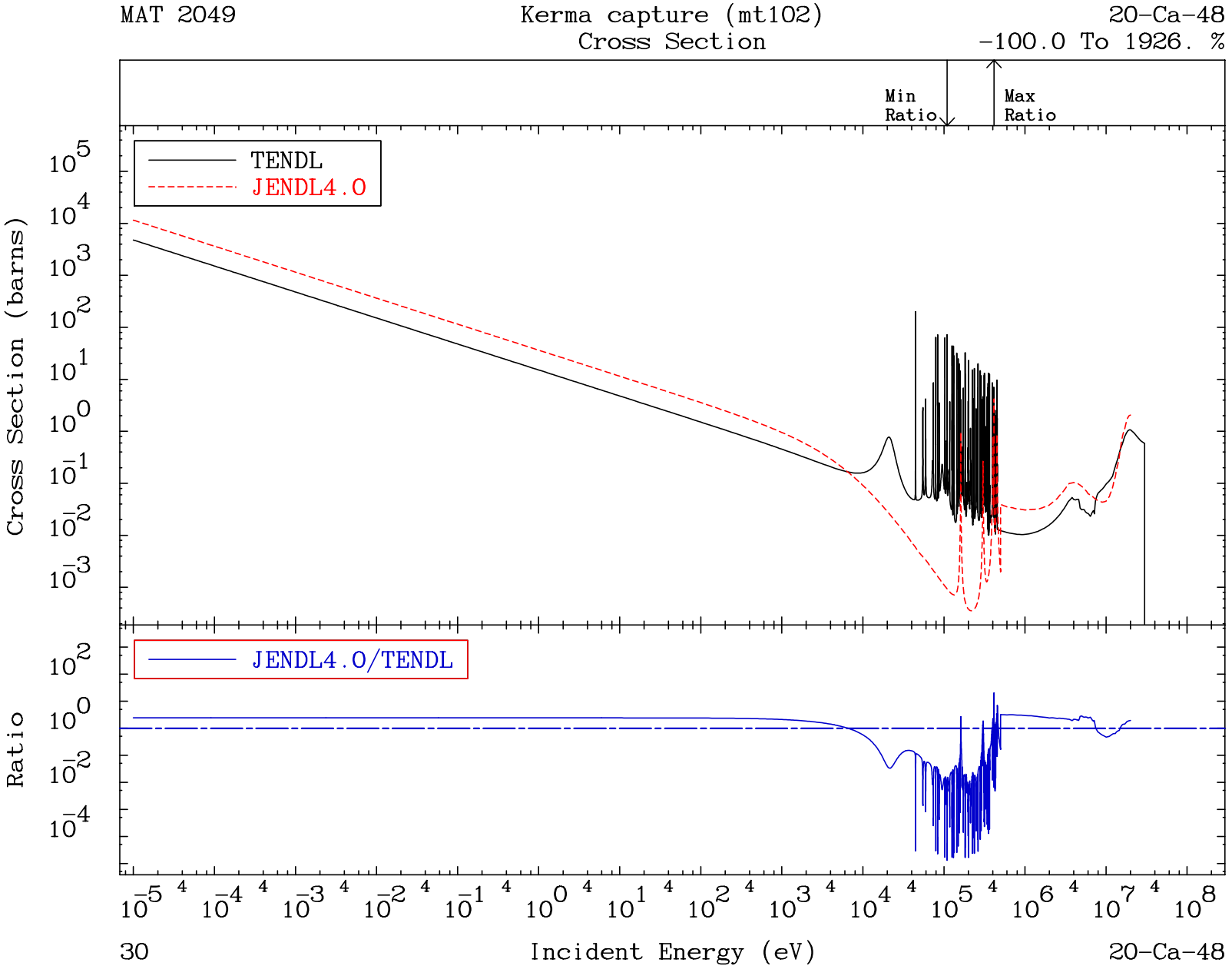

MAT 2049
Kerma total (eV-barns)
Cross Section
20-Ca-48
-99.99 To 529.3 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
25
20-Ca-48

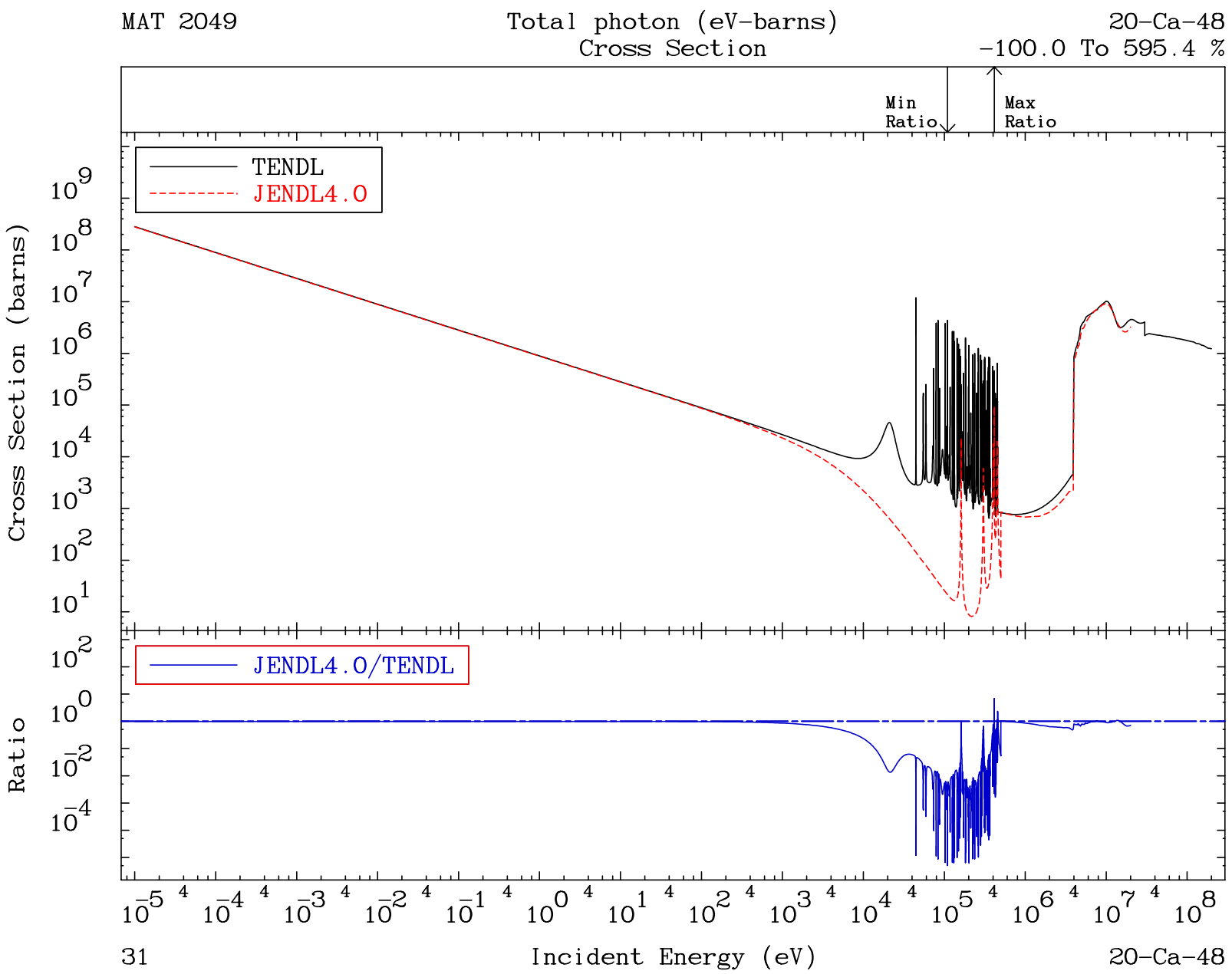

MAT 2049
Kerma elastic
Cross Section
20-Ca-48
-99.99 To 1019. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
26
20-Ca-48

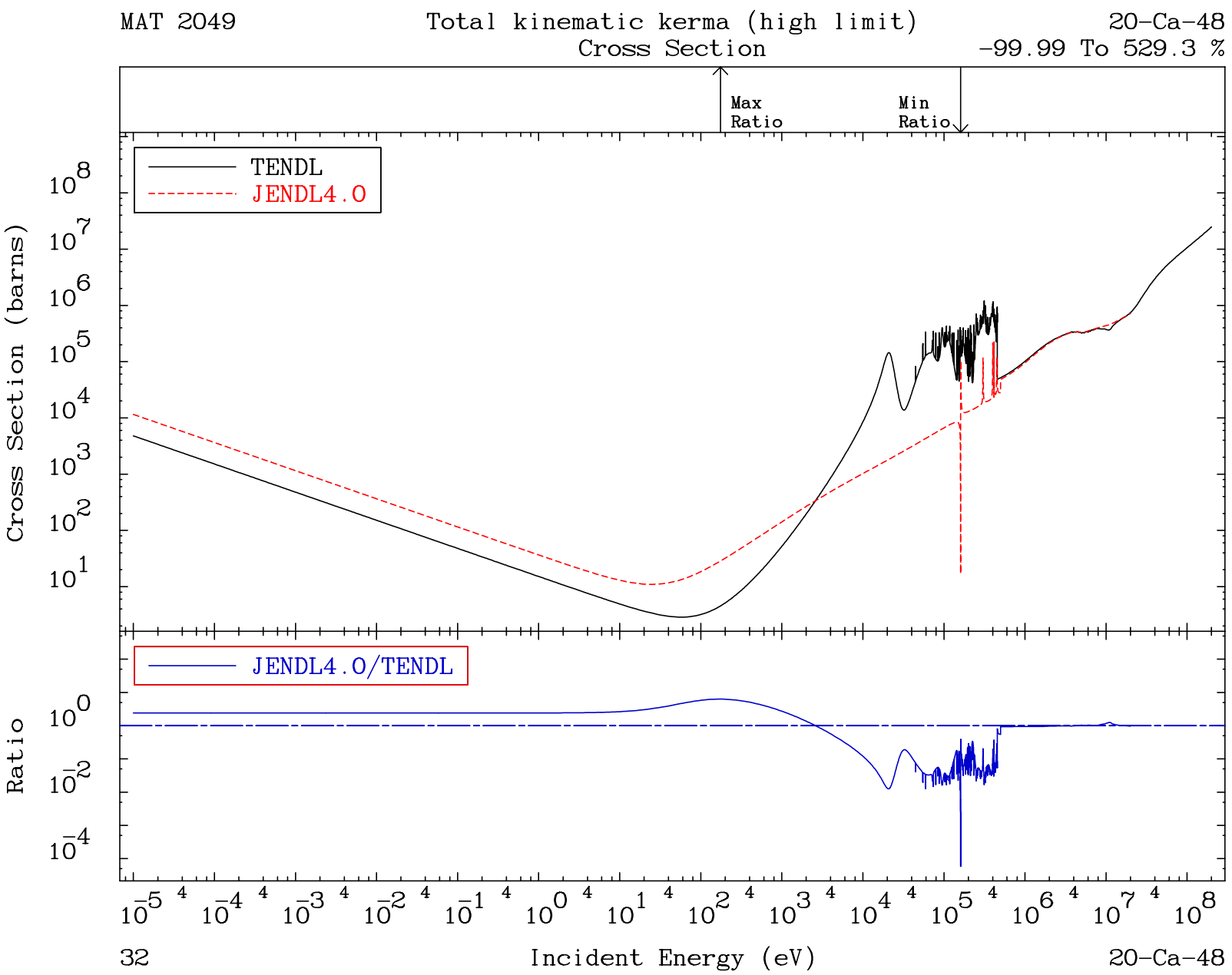

MAT 2049
Kerma non-elastic (all but mt2)
Cross Section
20-Ca-48
-100.0 To 6933. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
27
20-Ca-48

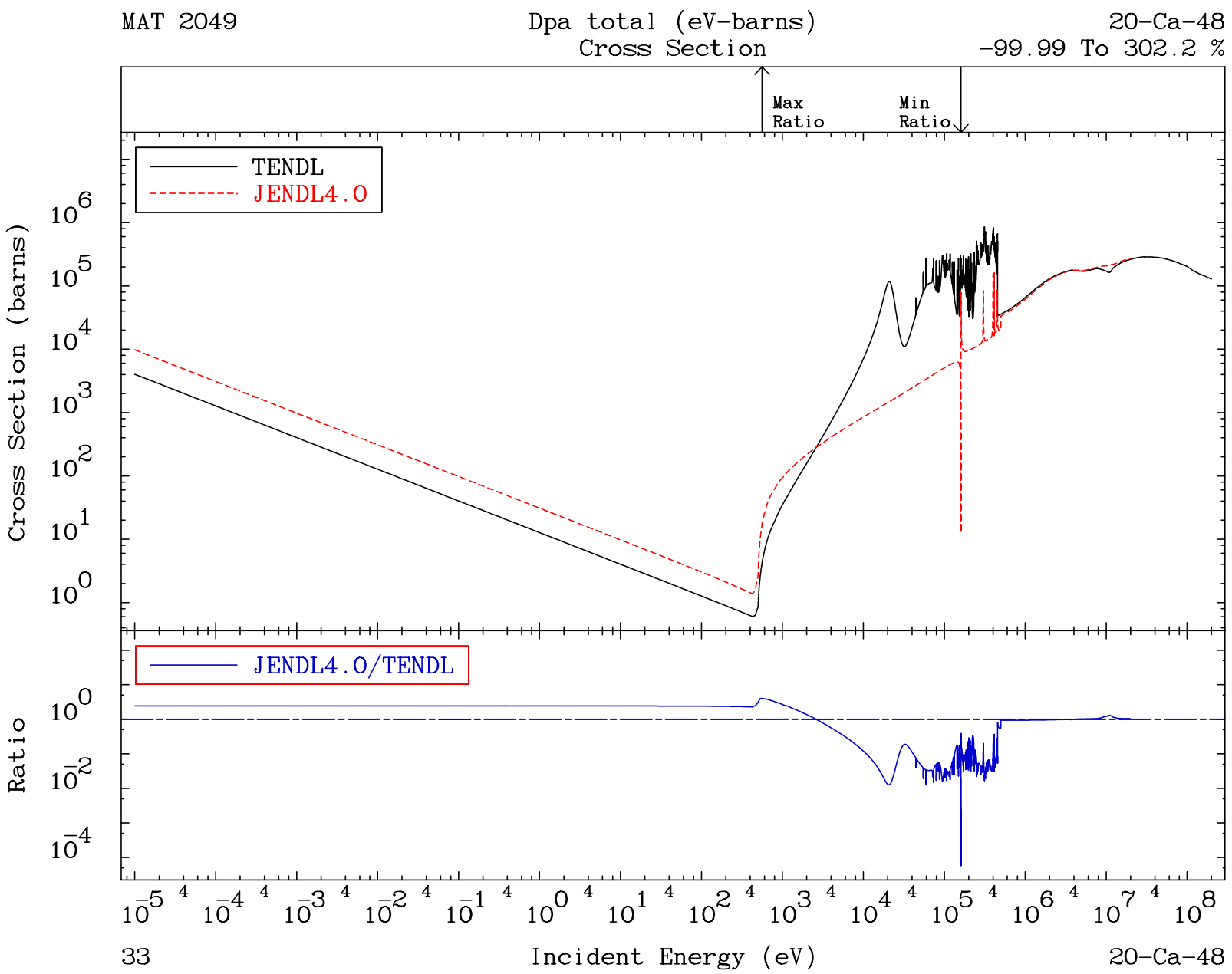

MAT 2049
Kerma inelastic (mt51-91)
Cross Section
20-Ca-48
-33.06 To 9999. %
Min
Ratio
TENDL Threshold 3.9123 MeV
JENDL4.0 Threshold 3.9123 MeV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
28
20-Ca-48

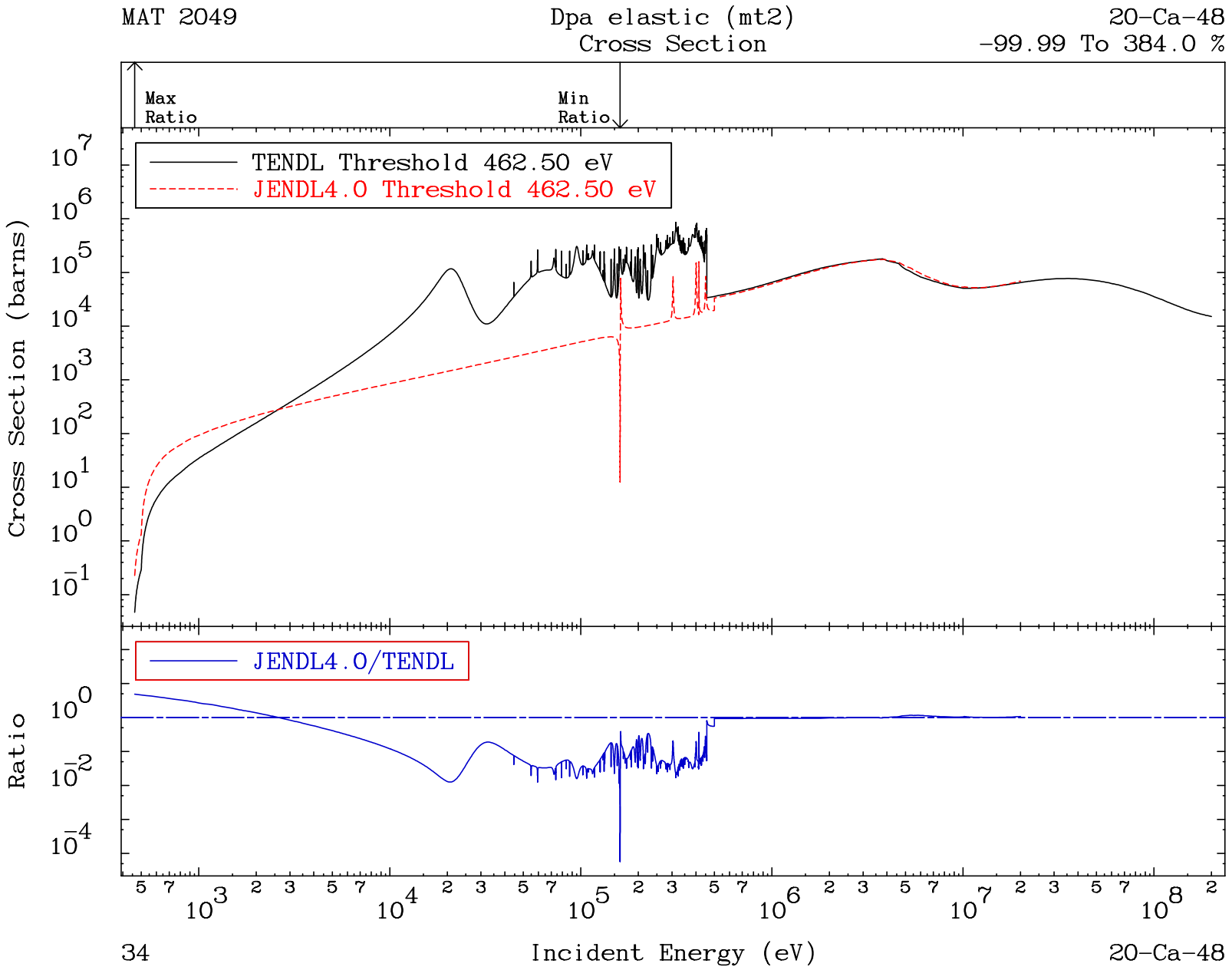

MAT 2049
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
20-Ca-48
-33.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
20-Ca-48

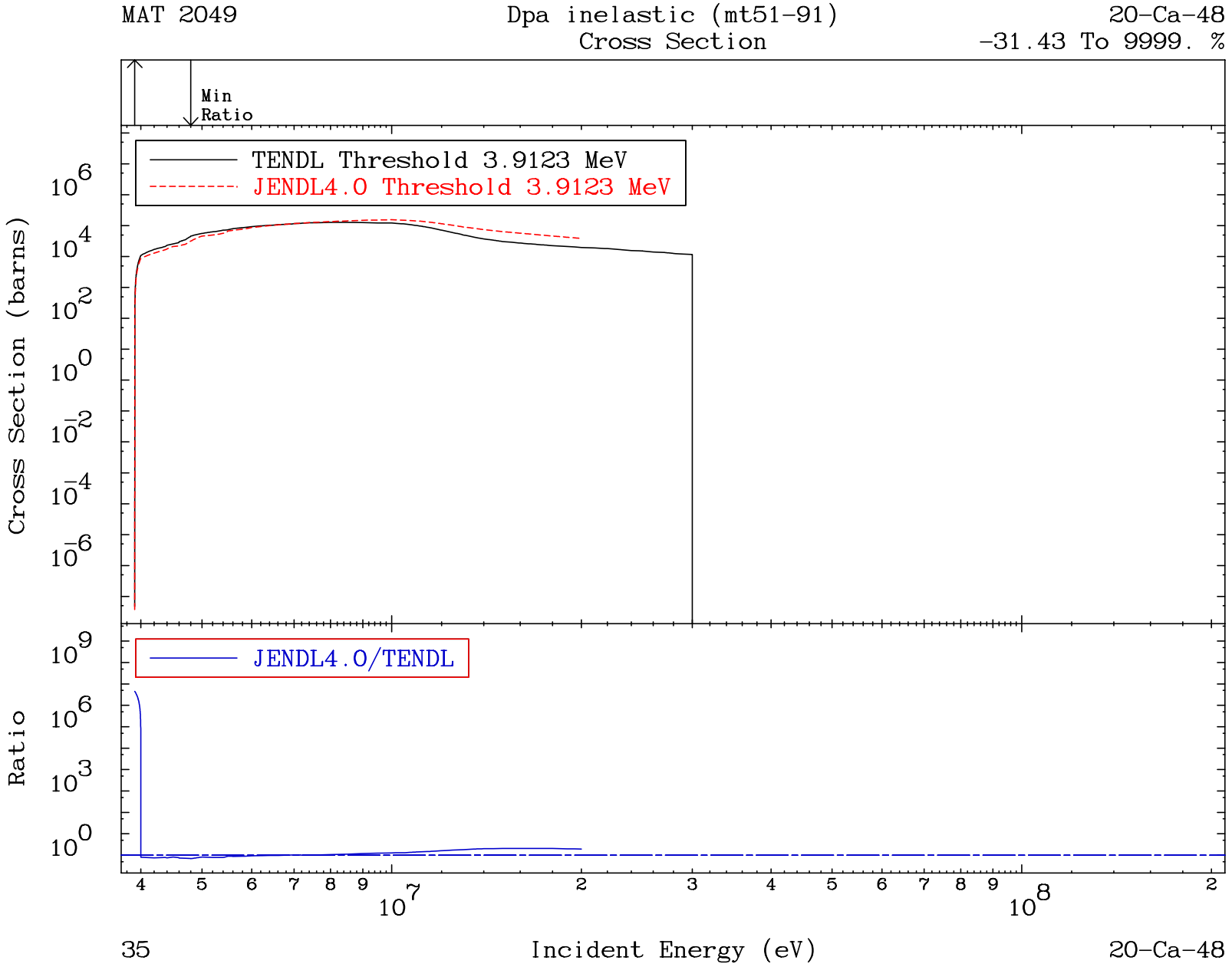

MAT 2049
Kerma capture (mt102)
Cross Section
20-Ca-48
-100.0 To 1926. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
30
20-Ca-48

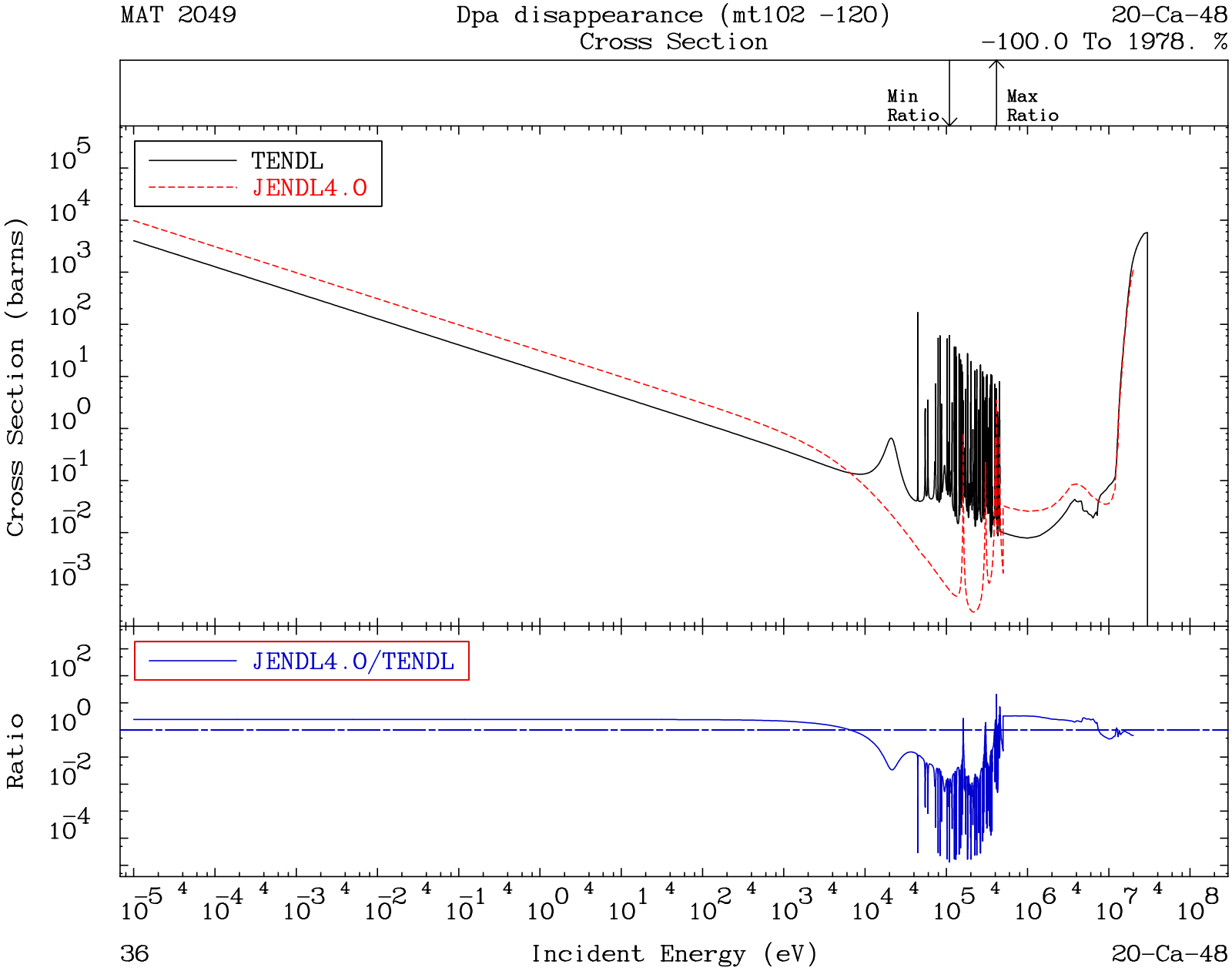

MAT 2049
Total photon (eV-barns)
Cross Section
20-Ca-48
-100.0 To 595.4 %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
31
20-Ca-48

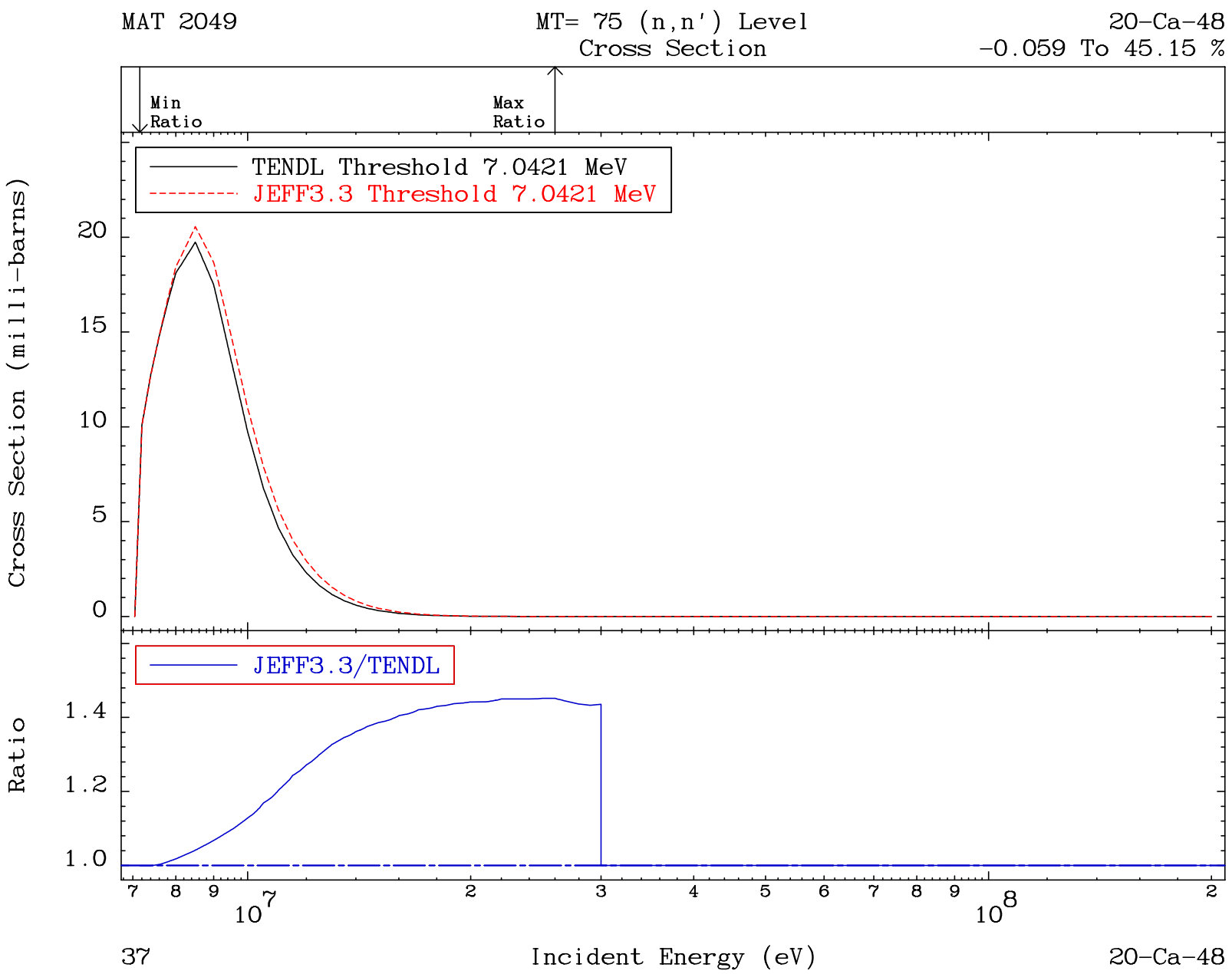

MAT 2049
Total kinematic kerma (high limit)
Cross Section
20-Ca-48
-99.99 To 529.3 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
20-Ca-48

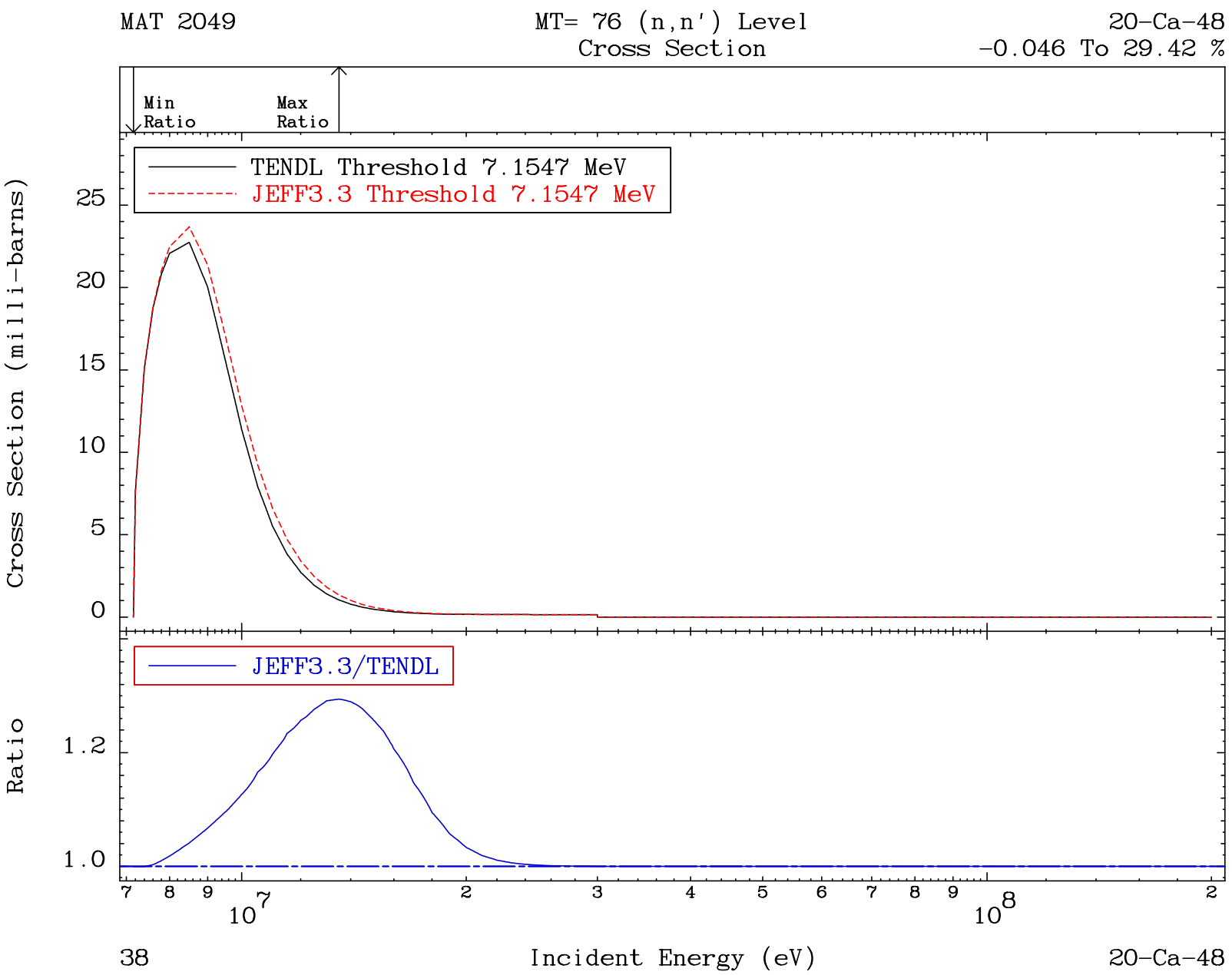

MAT 2049
Dpa total (eV-barns)
Cross Section
20-Ca-48
-99.99 To 302.2 %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
33
20-Ca-48

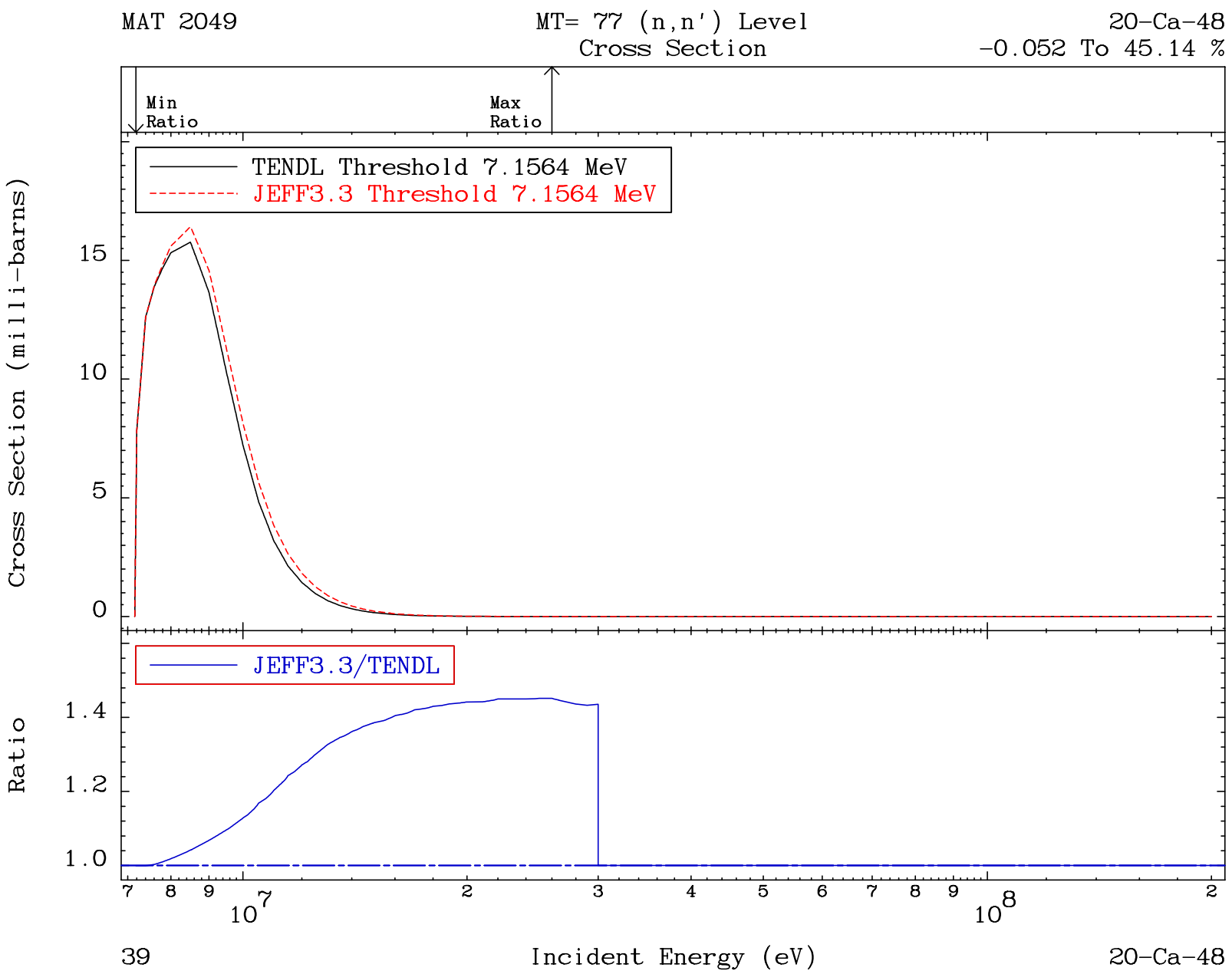

MAT 2049
Dpa elastic (mt2)
Cross Section
20-Ca-48
-99.99 To 384.0 %
Max Ratio
Min Ratio
TENDL Threshold 462.50 eV
JENDL4.0 Threshold 462.50 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
34
20-Ca-48

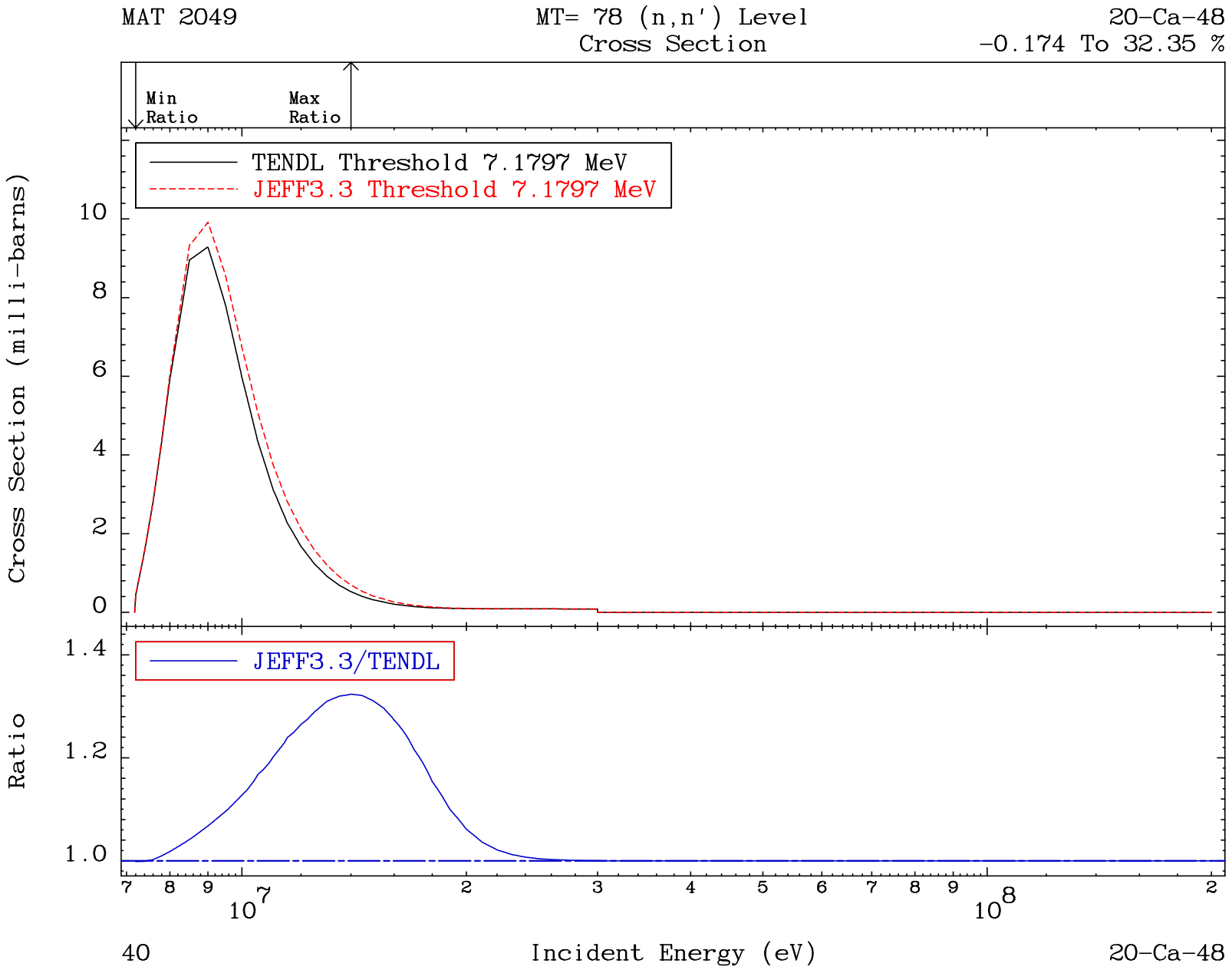

MAT 2049
Dpa inelastic (mt51-91)
Cross Section
20-Ca-48
-31.43 To 9999. %
Min
Ratio
TENDL Threshold 3.9123 MeV
JENDL4.0 Threshold 3.9123 MeV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
35
Incident Energy (eV)
20-Ca-48

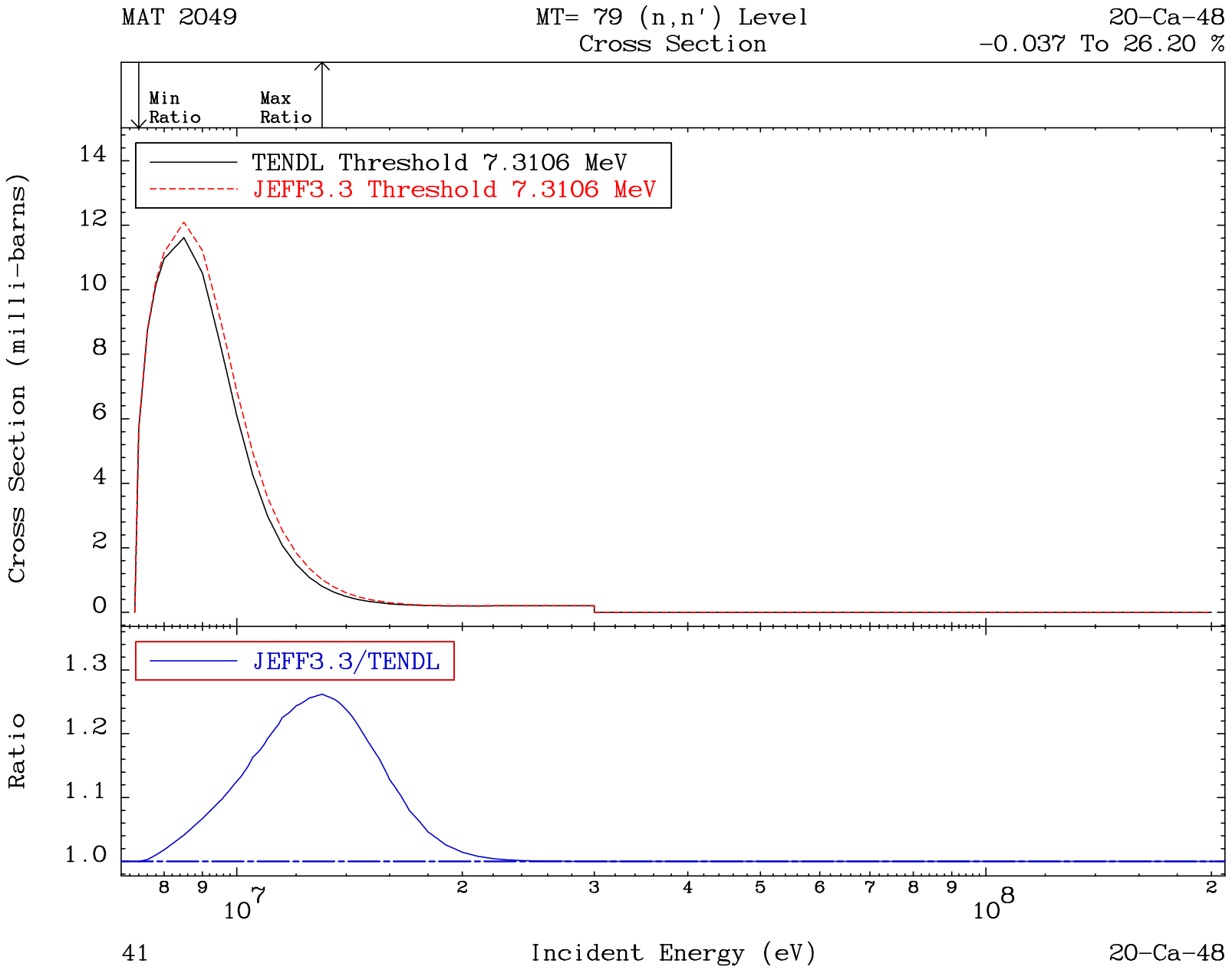

MAT 2049
Dpa disappearance (mt102 -120)
Cross Section
20-Ca-48
-100.0 To 1978. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
20-Ca-48

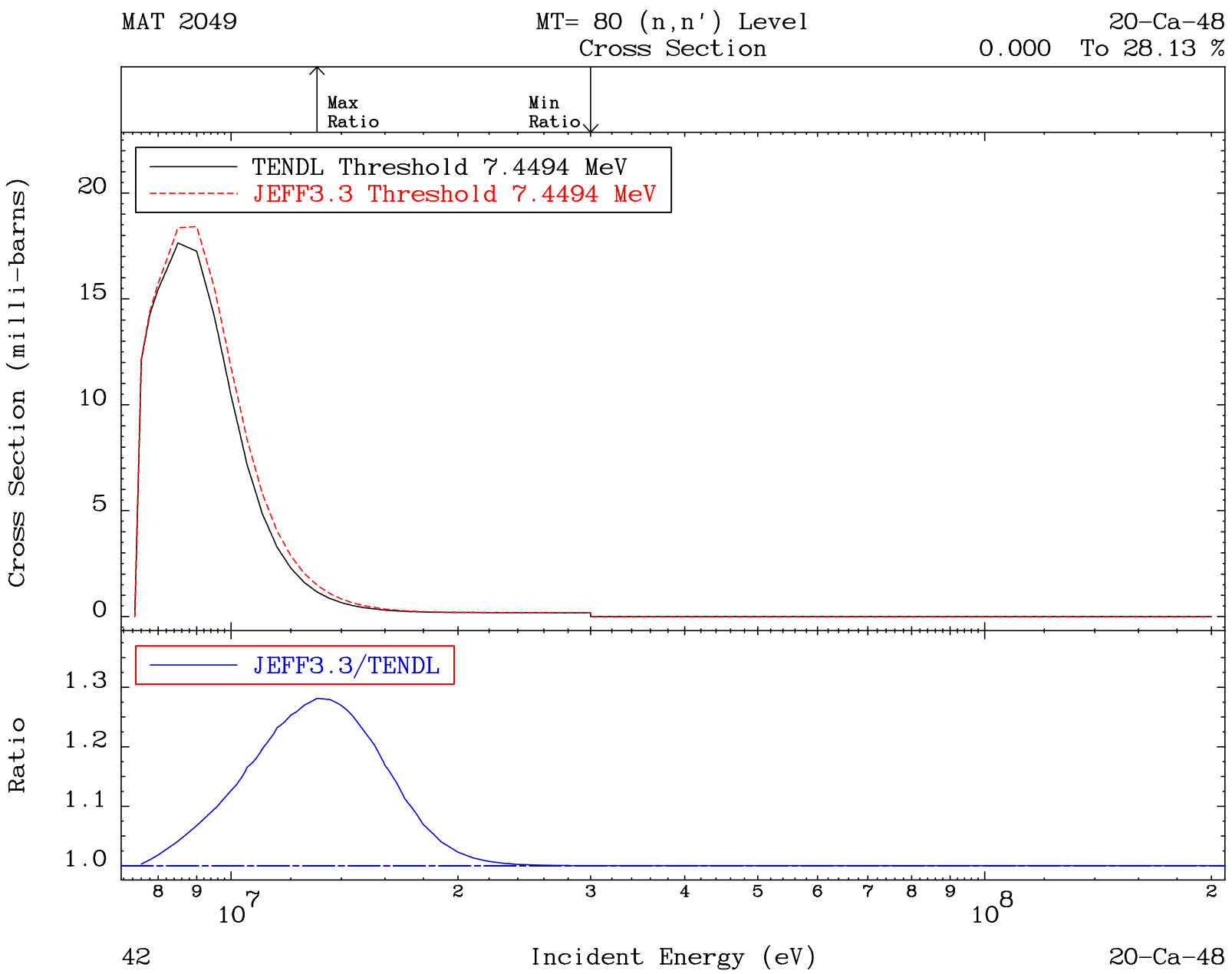

MAT 2049
MT= 75 (n,n') Level
Cross Section
20-Ca-48
-0.059 To 45.15 %
Min
Ratio
Max
Ratio
TENDL Threshold 7.0421 MeV
JEFF3.3 Threshold 7.0421 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
20-Ca-48

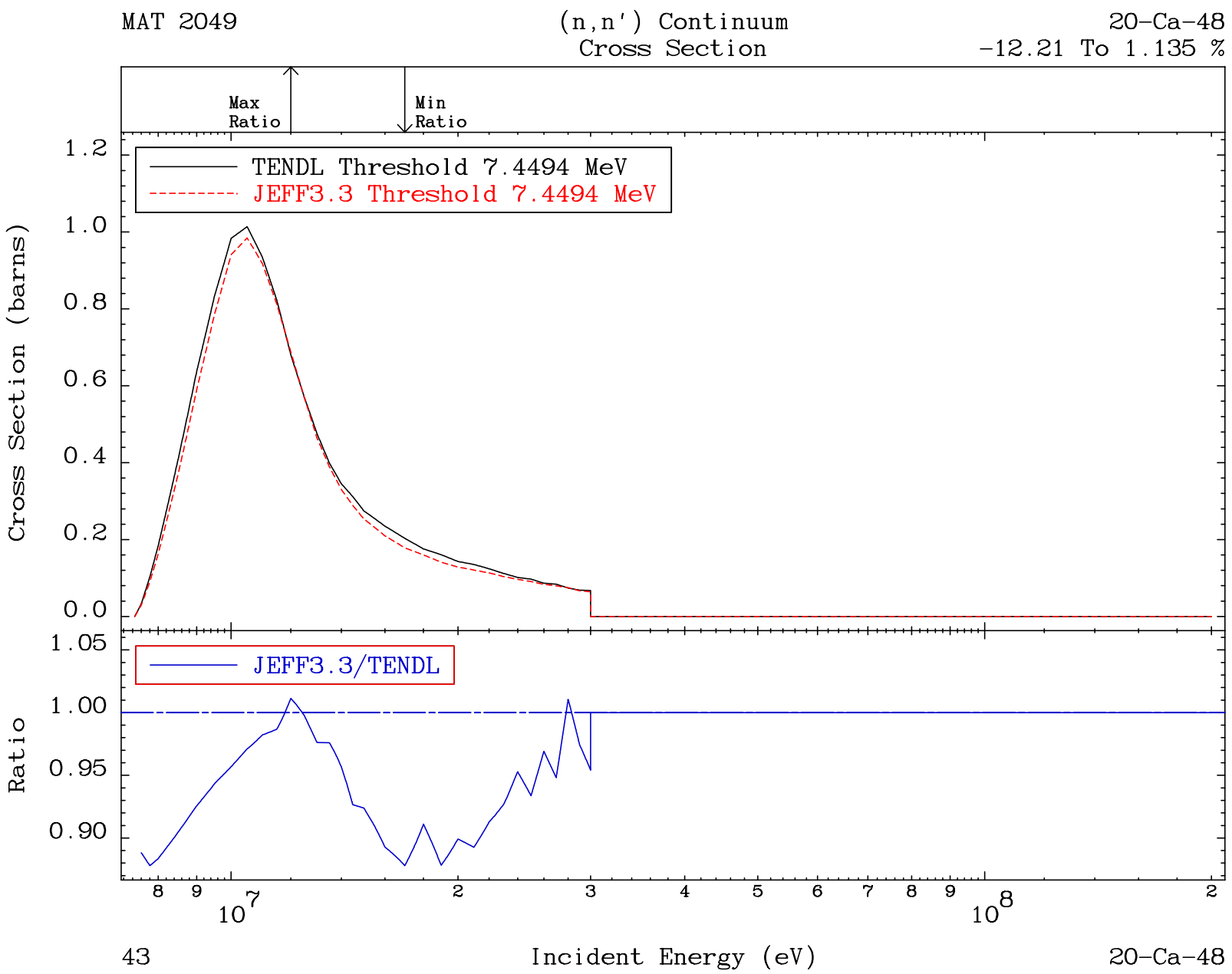

MAT 2049
MT= 76 (n,n') Level
Cross Section
20-Ca-48
-0.046 To 29.42 %
Min Ratio
Max Ratio
TENDL Threshold 7.1547 MeV
JEFF3.3 Threshold 7.1547 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.2
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
20-Ca-48

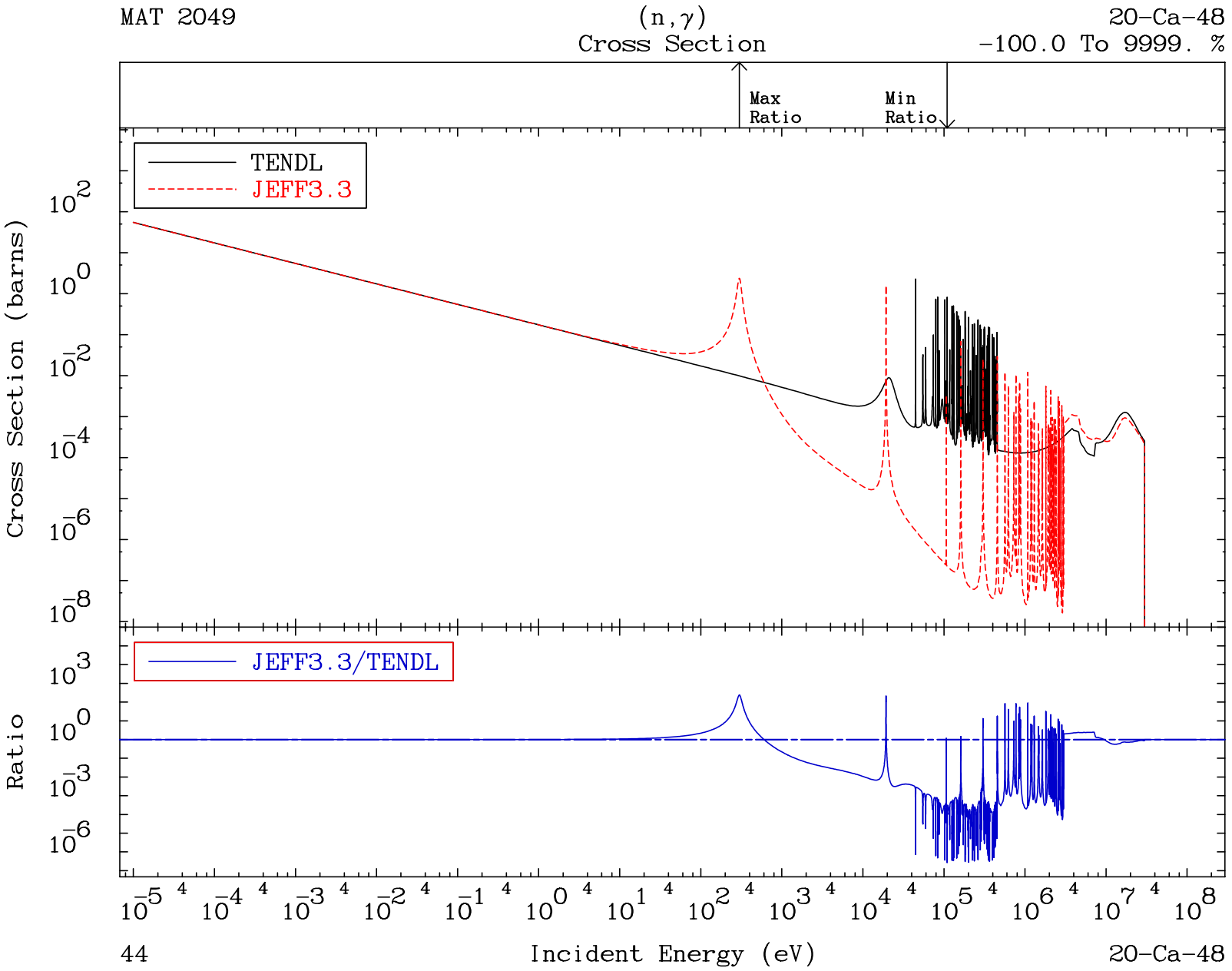

MAT 2049
MT= 77 (n,n') Level
Cross Section
20-Ca-48
-0.052 To 45.14 %
Min
Ratio
Max
Ratio
TENDL Threshold 7.1564 MeV
JEFF3.3 Threshold 7.1564 MeV
Cross Section (milli-barns)
15
10
5
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
20-Ca-48

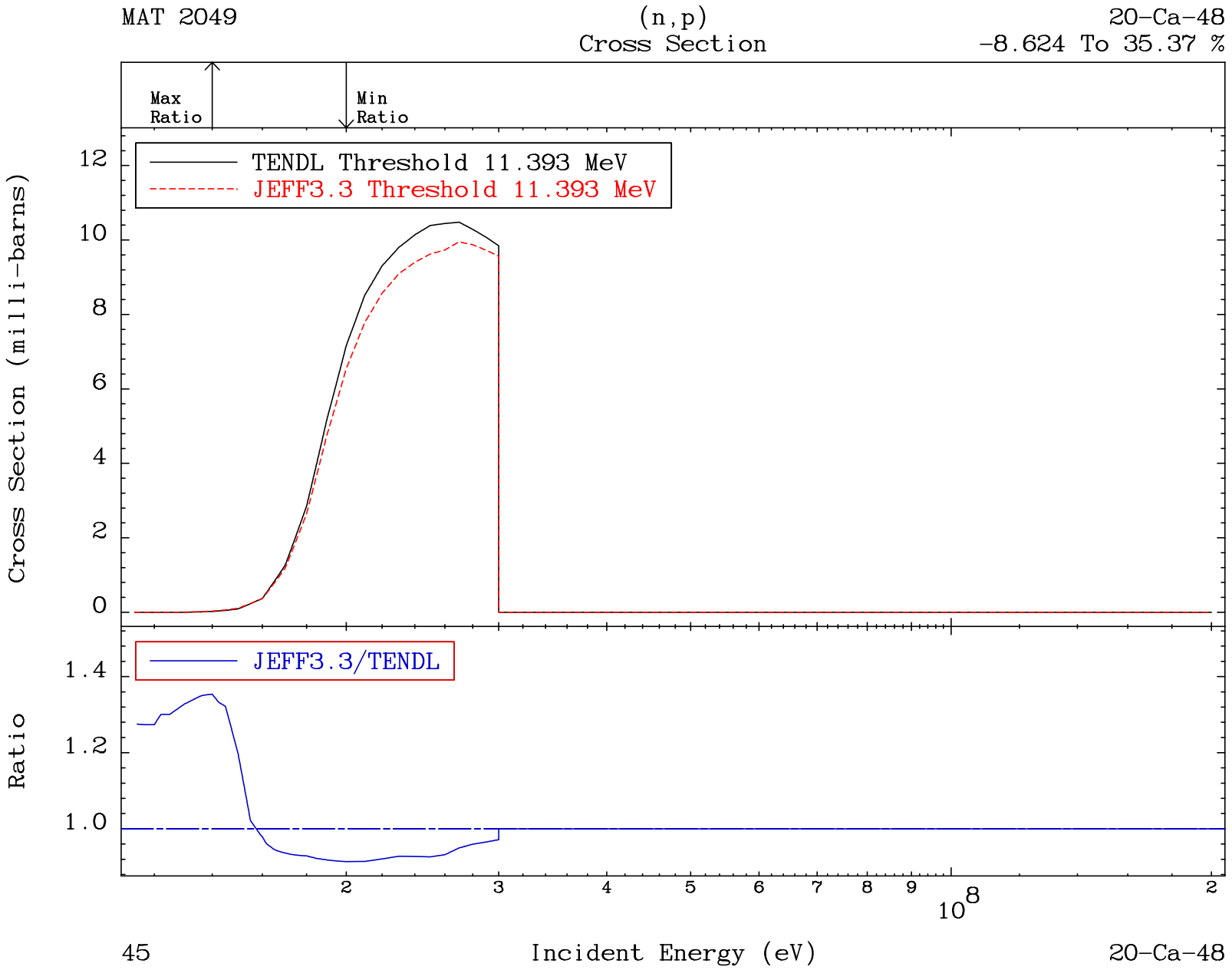

MAT 2049
MT= 78 (n,n') Level
Cross Section
20-Ca-48
-0.174 To 32.35 %
Min Ratio
Max Ratio
TENDL Threshold 7.1797 MeV
JEFF3.3 Threshold 7.1797 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
JEFF3.3/TENDL
Ratio
1.0
1.2
1.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
20-Ca-48

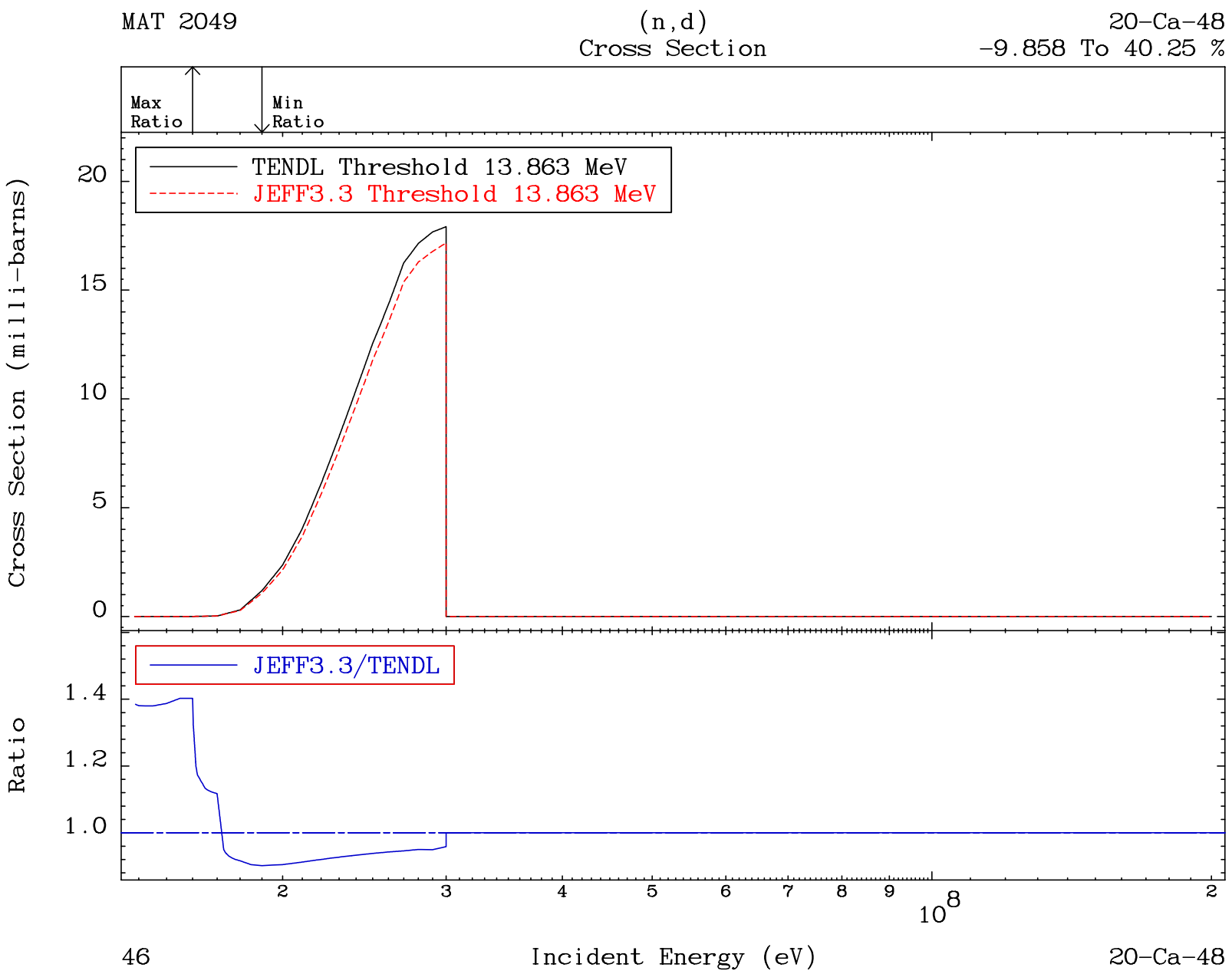

MAT 2049
MT= 79 (n,n') Level
Cross Section
20-Ca-48
-0.037 To 26.20 %
Min Ratio
Max Ratio
TENDL Threshold 7.3106 MeV
JEFF3.3 Threshold 7.3106 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
41
20-Ca-48

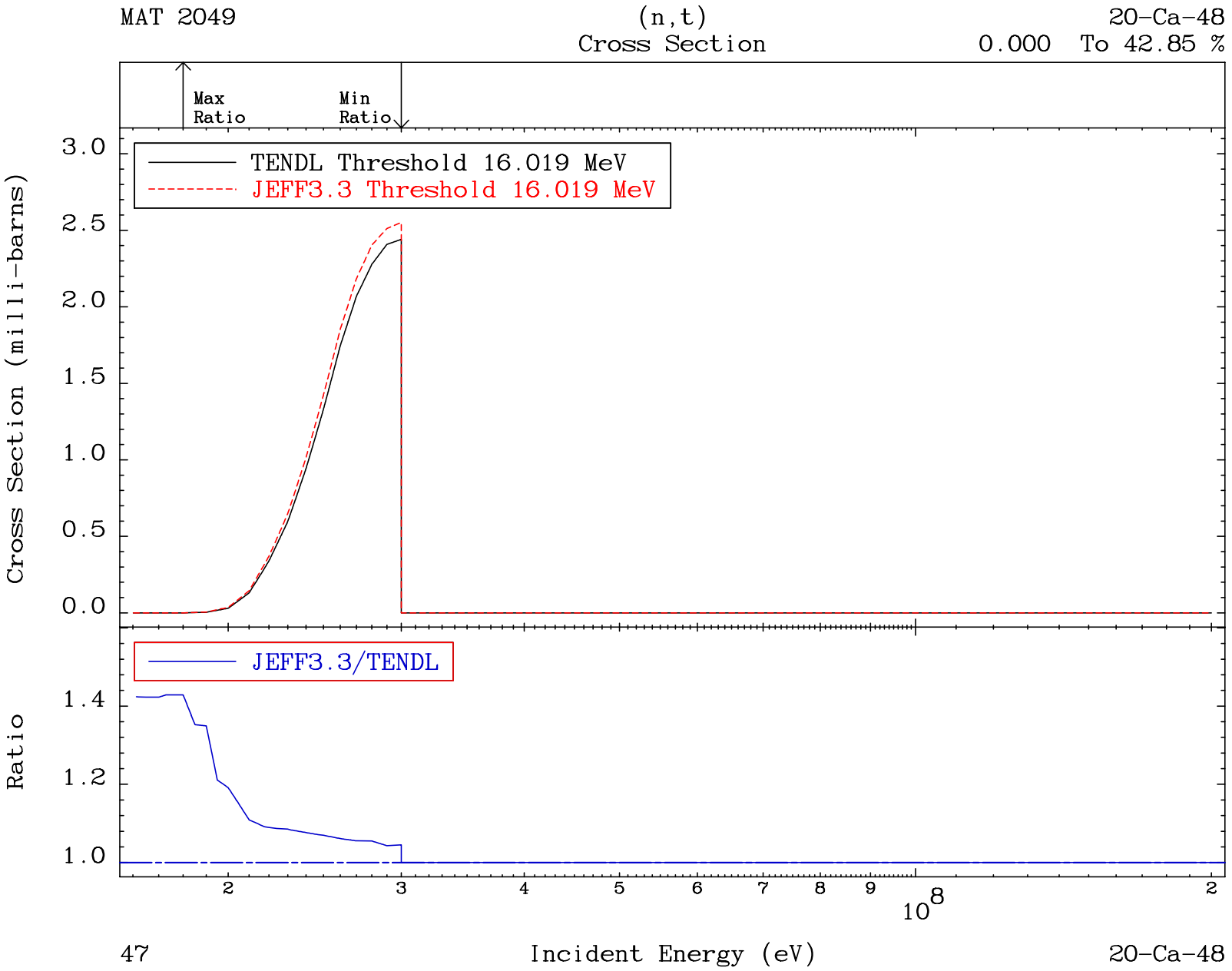

MAT 2049
MT= 80 (n,n') Level
Cross Section
20-Ca-48
0.000 To 28.13 %
Max Ratio
Min Ratio
TENDL Threshold 7.4494 MeV
JEFF3.3 Threshold 7.4494 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.3
1.2
1.1
1.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
20-Ca-48

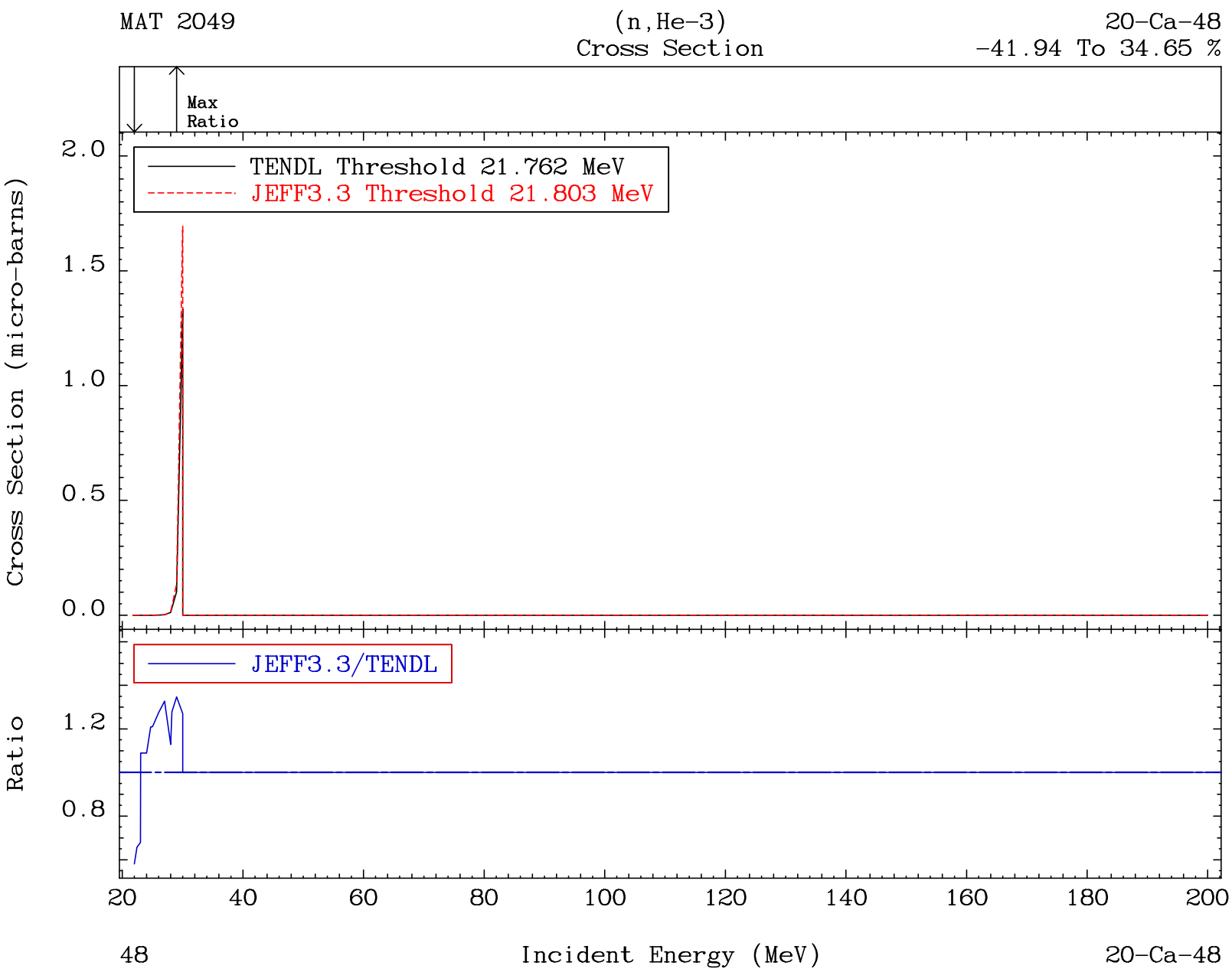

MAT 2049
(n,n') Continuum
Cross Section
20-Ca-48
-12.21 To 1.135 %
Max Ratio
Min Ratio
TENDL Threshold 7.4494 MeV
JEFF3.3 Threshold 7.4494 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
0.90
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
20-Ca-48

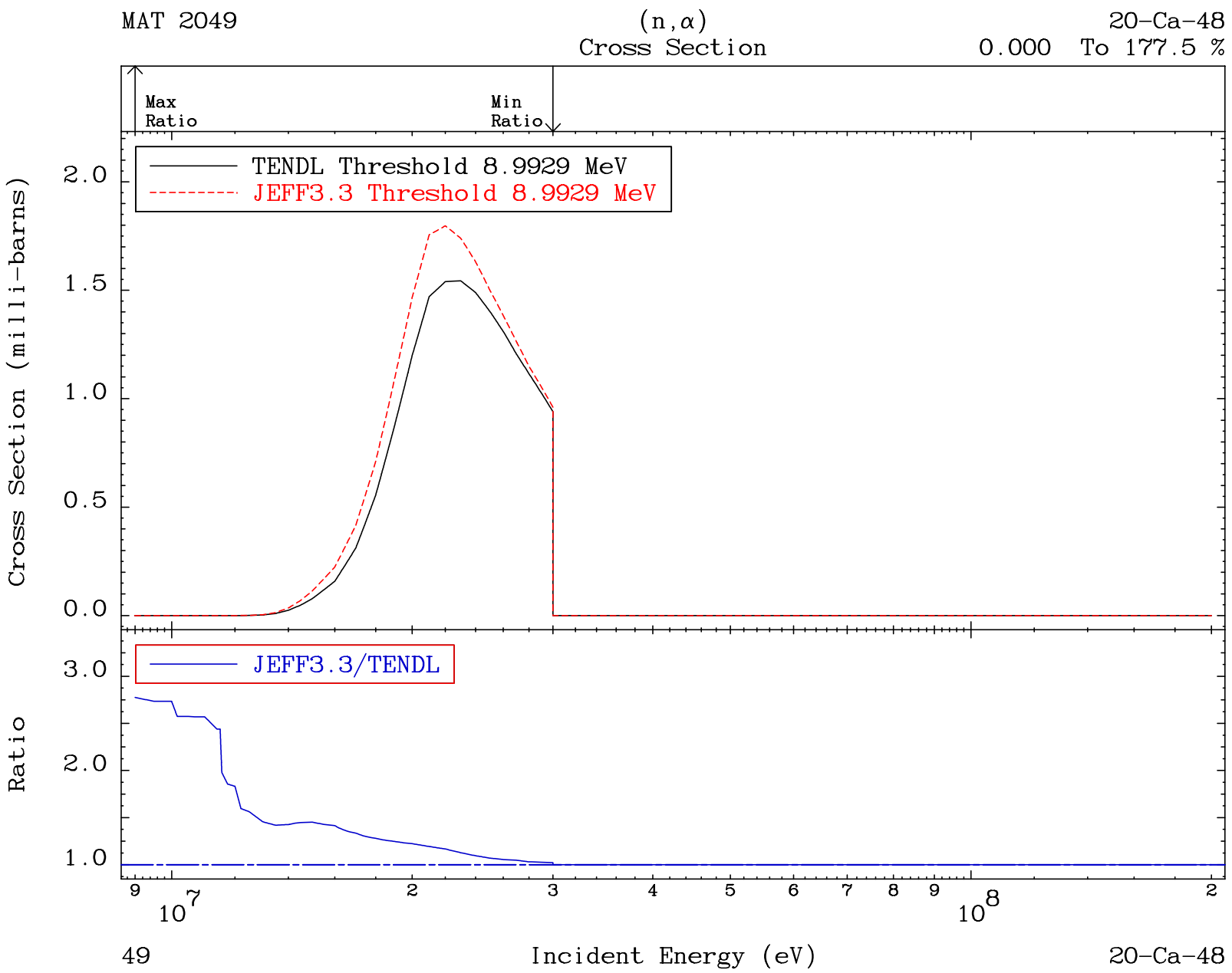

MAT 2049
(n,γ)
Cross Section
20-Ca-48
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
44
20-Ca-48

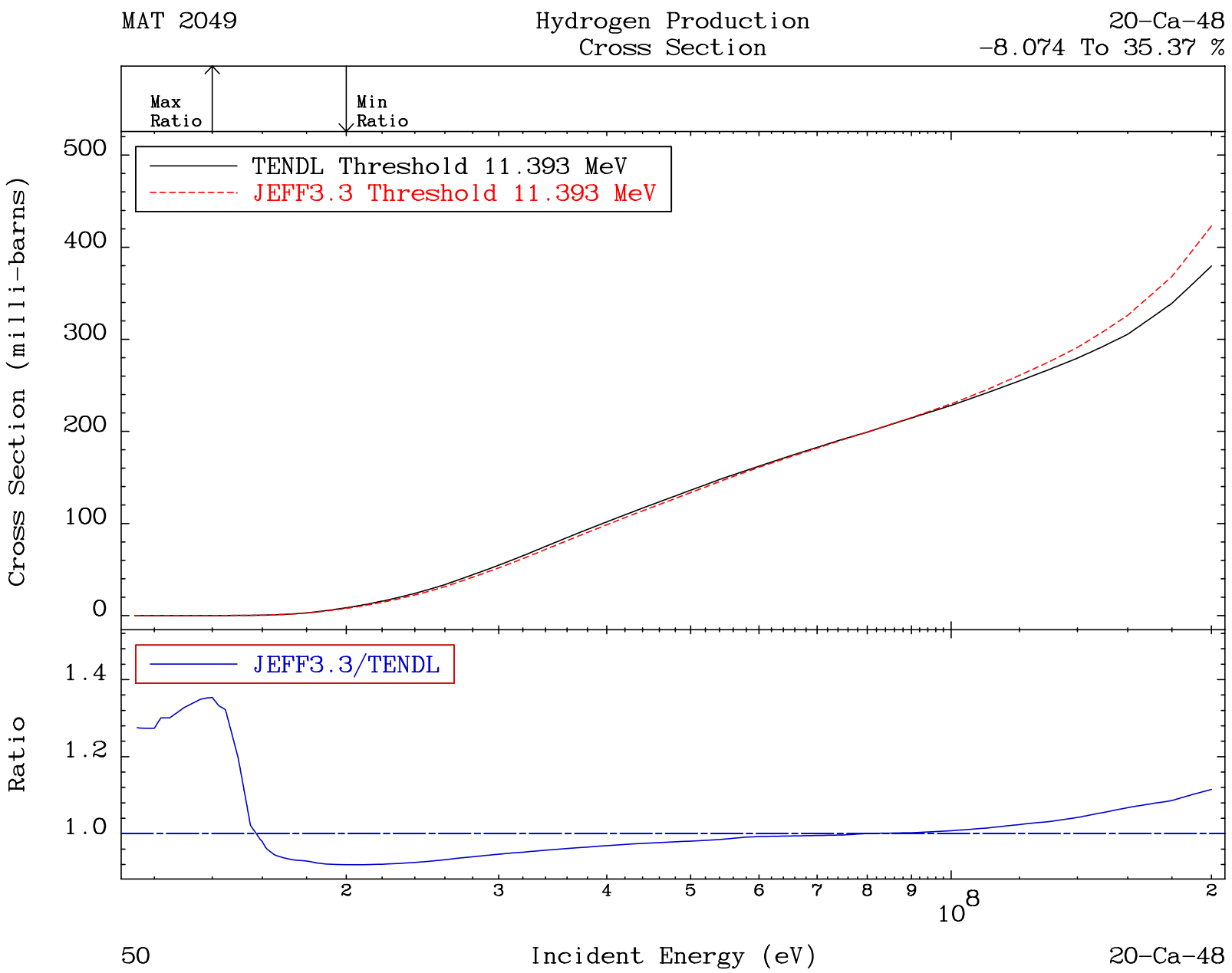

MAT 2049
(n,p)
Cross Section
20-Ca-48
-8.624 To 35.37 %
Max Ratio
Min Ratio
TENDL Threshold 11.393 MeV
JEFF3.3 Threshold 11.393 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
20-Ca-48

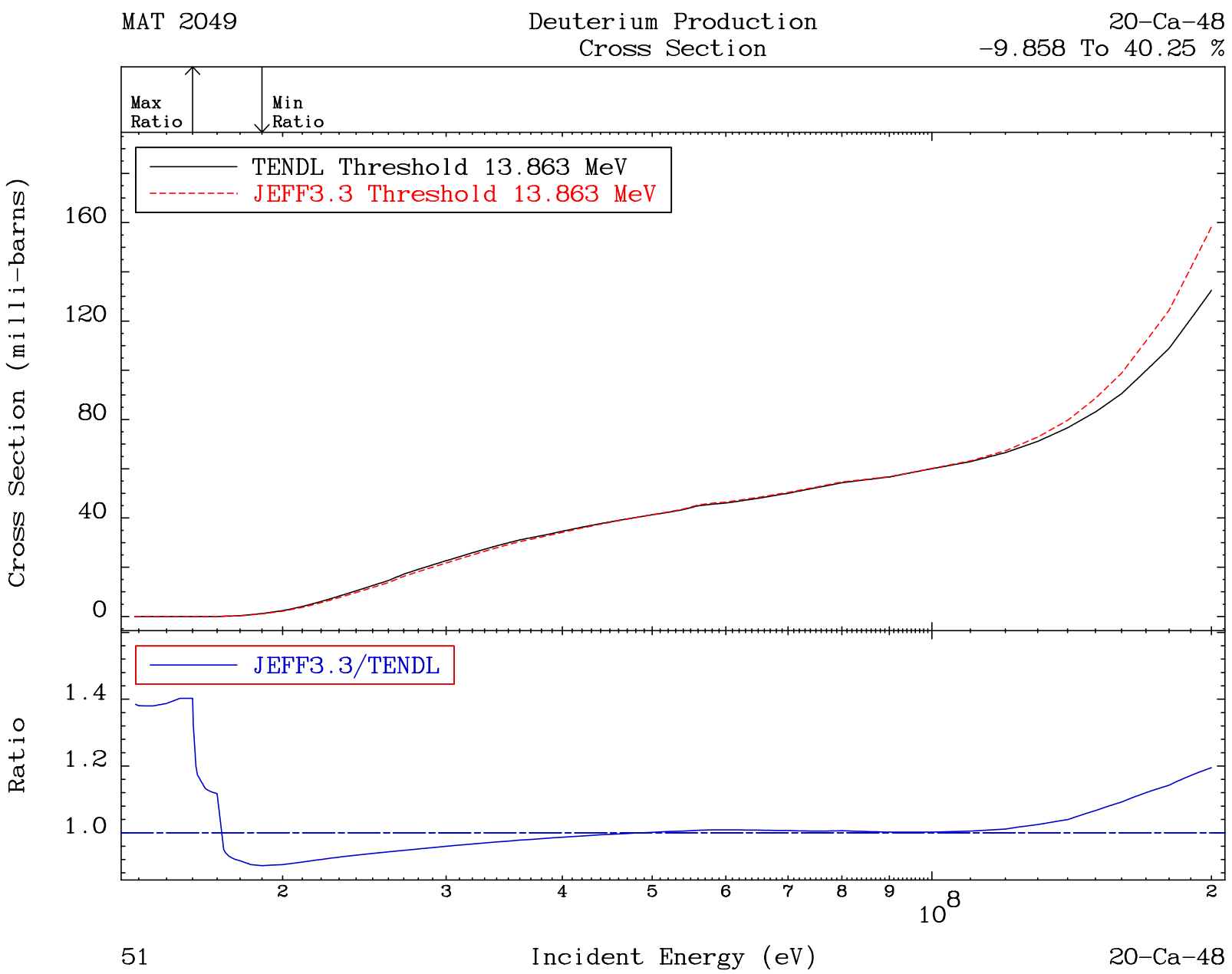

MAT 2049
(n,d)
Cross Section
20-Ca-48
-9.858 To 40.25 %
Max Ratio
Min Ratio
TENDL Threshold 13.863 MeV
JEFF3.3 Threshold 13.863 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
20-Ca-48

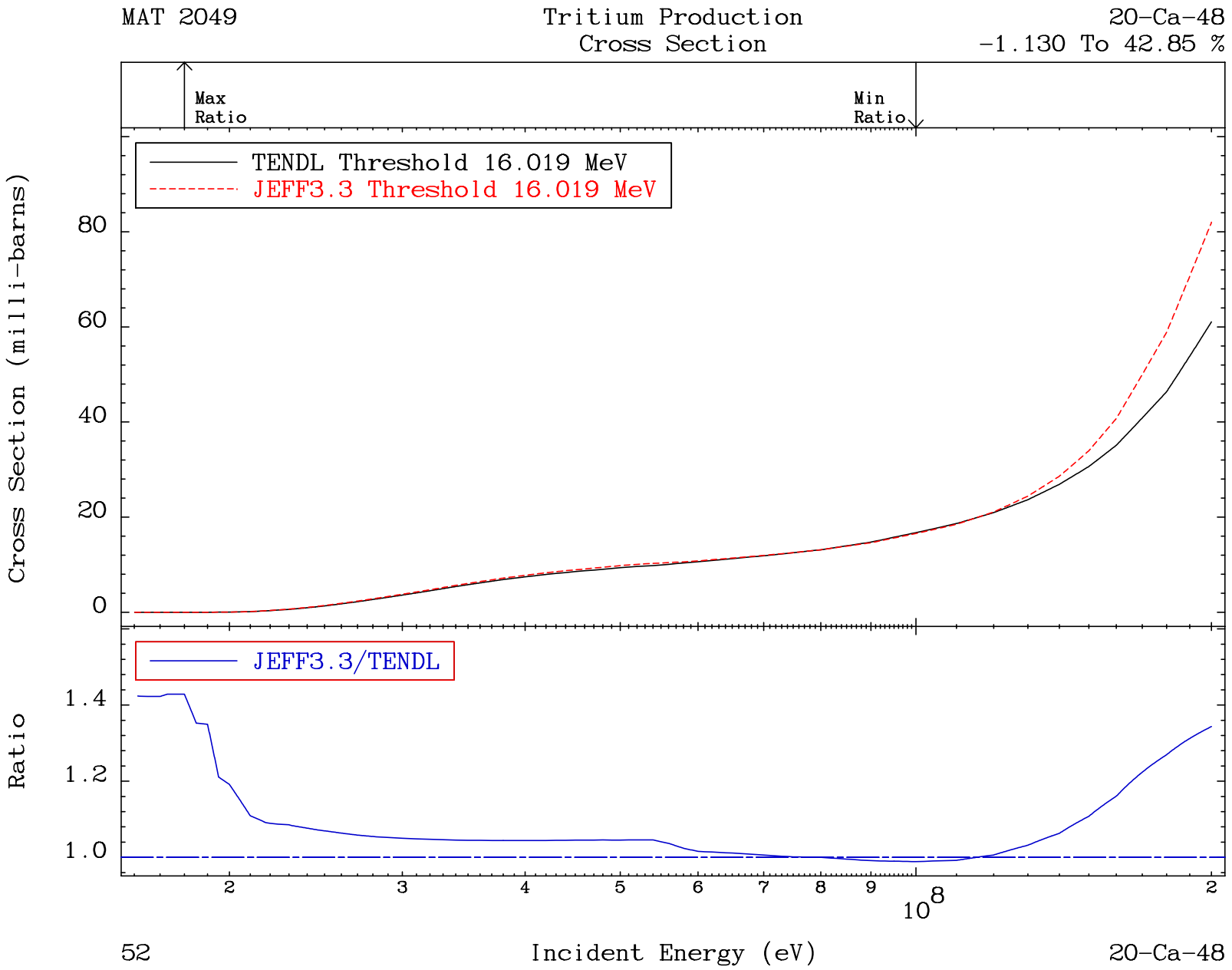

MAT 2049
(n,t)
Cross Section
20-Ca-48
0.000 To 42.85 %
Max Ratio
Min Ratio
TENDL Threshold 16.019 MeV
JEFF3.3 Threshold 16.019 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
47
Incident Energy (eV)
20-Ca-48

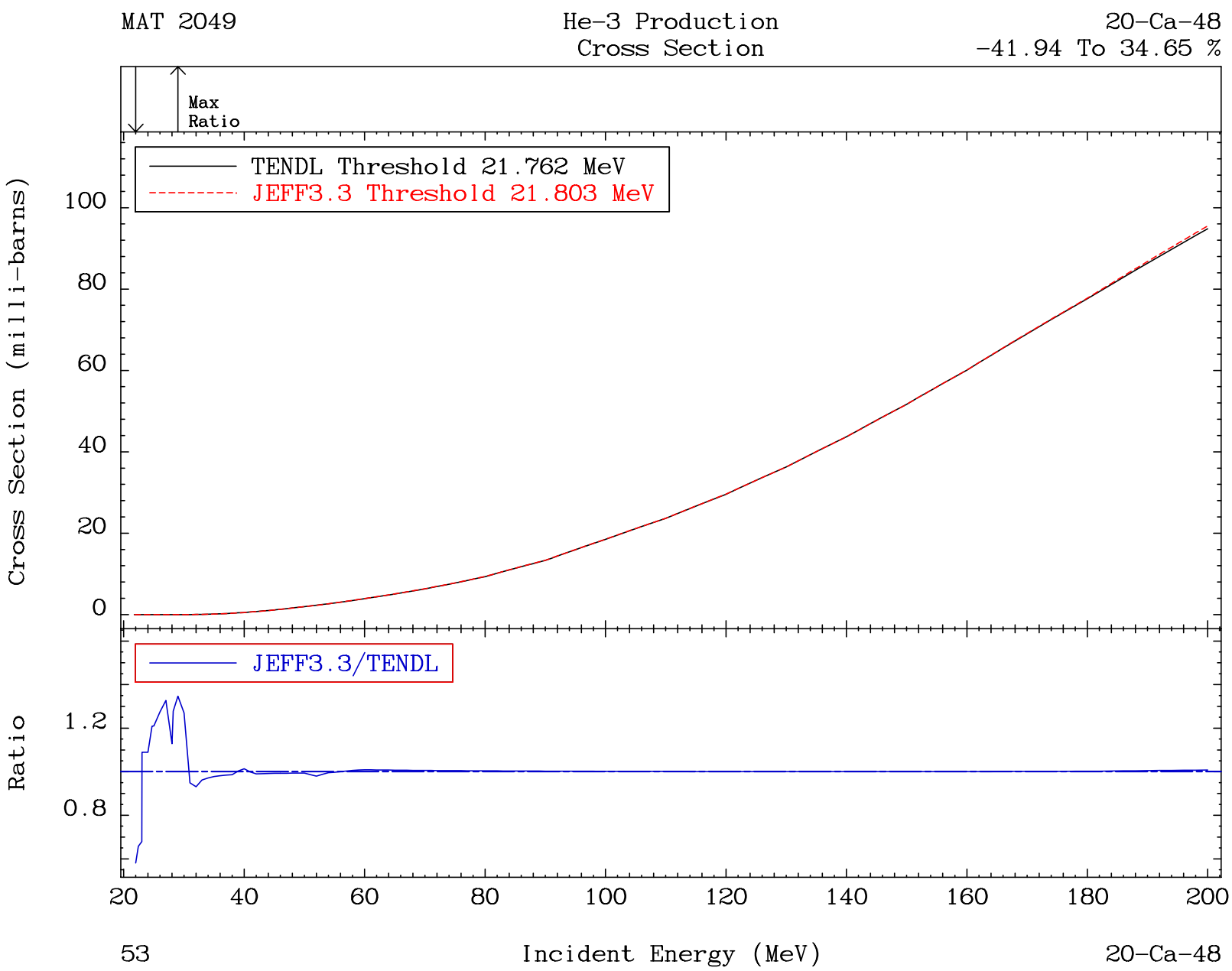

MAT 2049
(n,He-3)
Cross Section
20-Ca-48
-41.94 To 34.65 %
Max
Ratio
TENDL Threshold 21.762 MeV
JEFF3.3 Threshold 21.803 MeV
Cross Section (micro-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
0.8
20
40
60
80
100
120
140
160
180
200
48
Incident Energy (MeV)
20-Ca-48

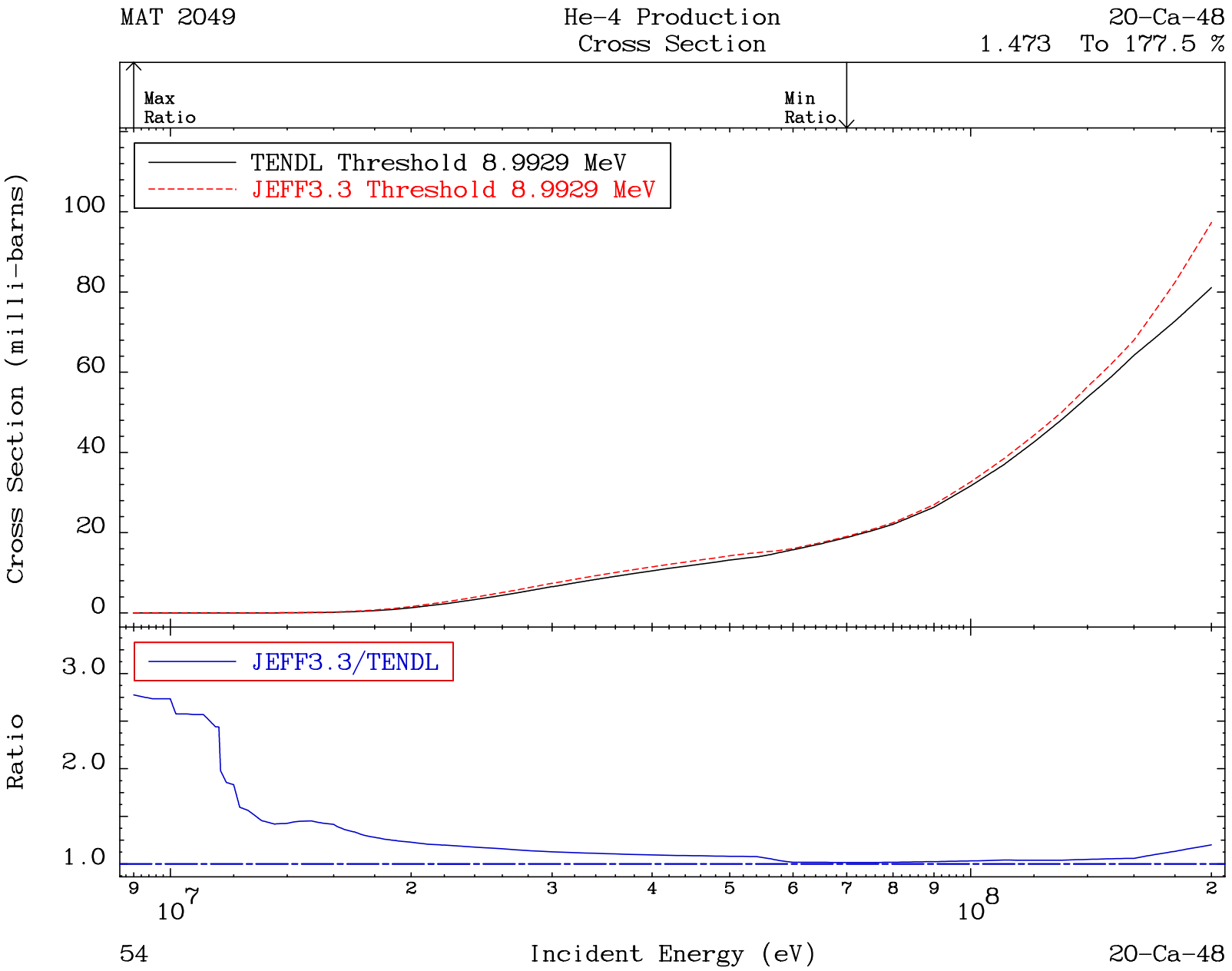

MAT 2049
(n,α)
Cross Section
20-Ca-48
0.000 To 177.5 %
Max Ratio
Min Ratio
TENDL Threshold 8.9929 MeV
JEFF3.3 Threshold 8.9929 MeV
Cross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
20-Ca-48

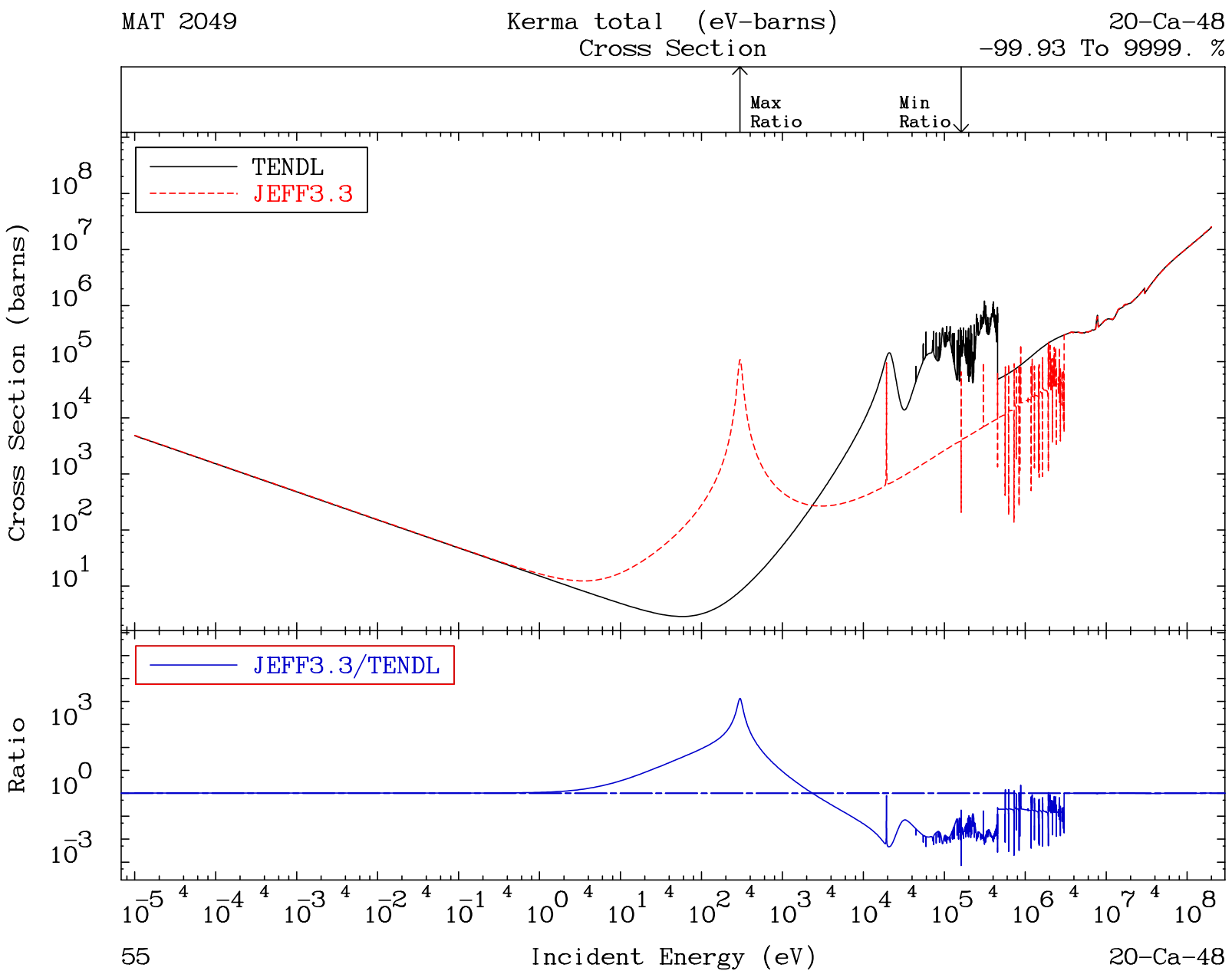

MAT 2049
Hydrogen Production
Cross Section
20-Ca-48
-8.074 To 35.37 %
Max Ratio
Min Ratio
TENDL Threshold 11.393 MeV
JEFF3.3 Threshold 11.393 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
20-Ca-48

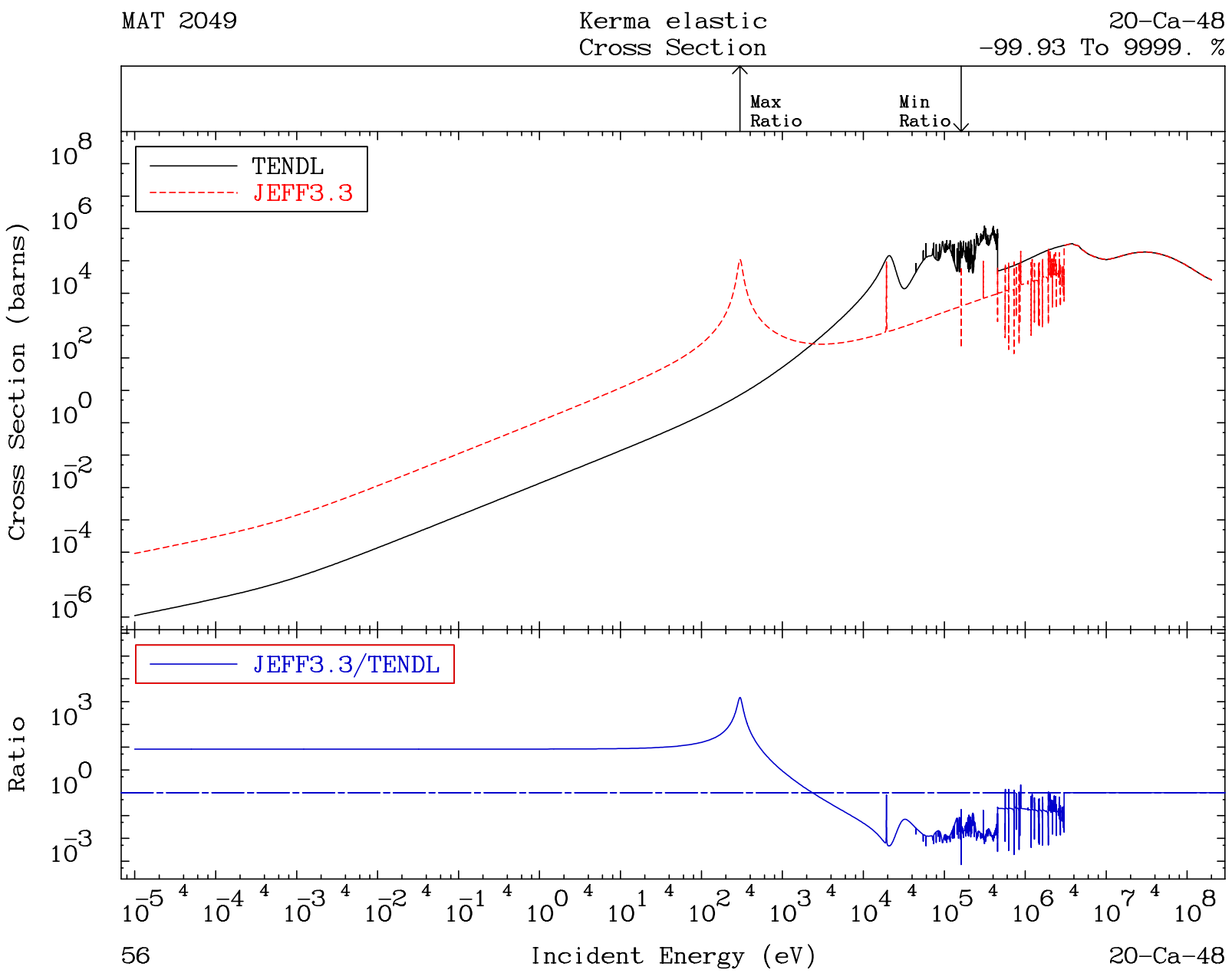

MAT 2049
Deuterium Production
Cross Section
20-Ca-48
-9.858 To 40.25 %
Max Ratio
Min Ratio
TENDL Threshold 13.863 MeV
JEFF3.3 Threshold 13.863 MeV
Cross Section (milli-barns)
160
120
80
40
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
20-Ca-48

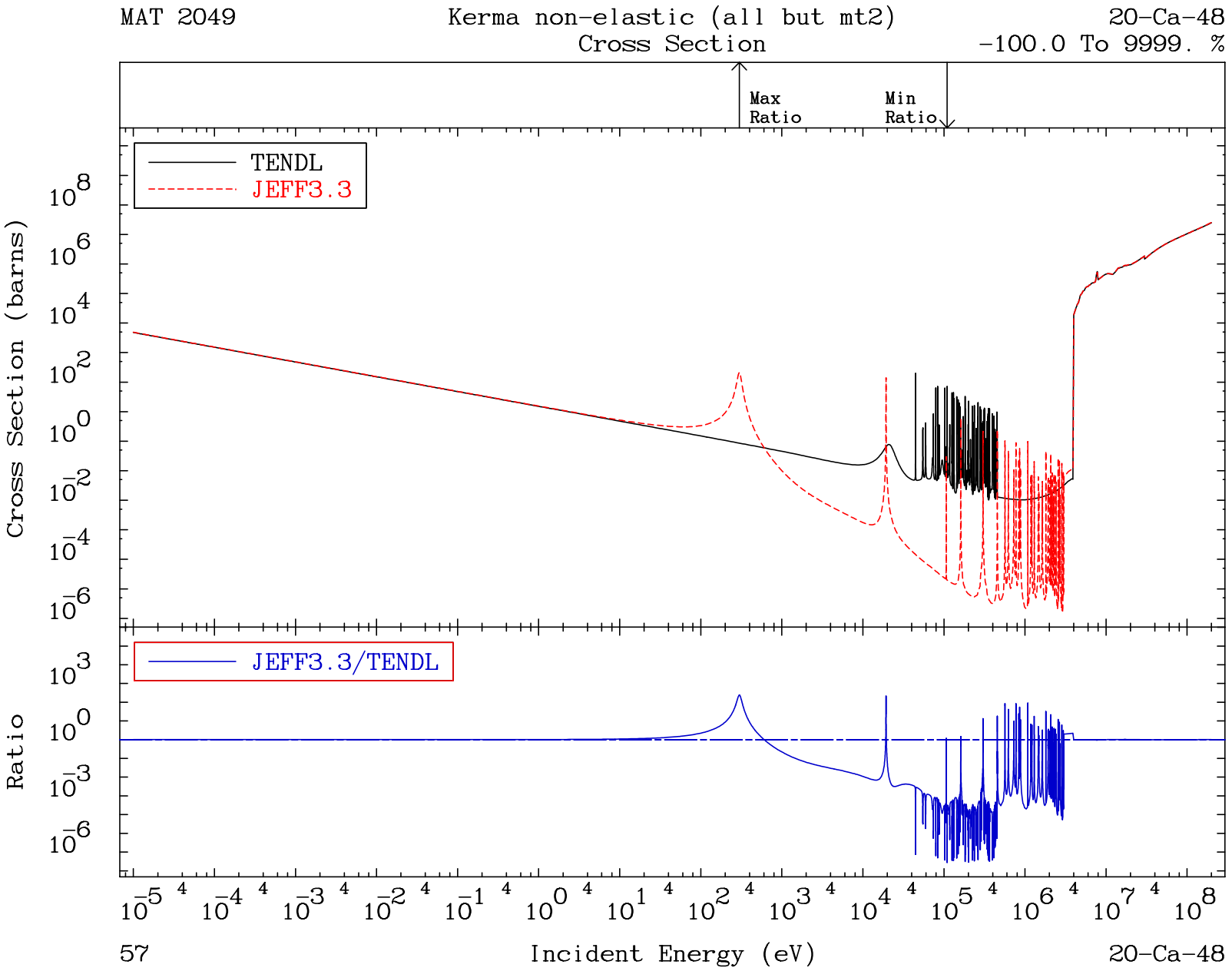

MAT 2049
Tritium Production
Cross Section
20-Ca-48
-1.130 To 42.85 %
Max
Ratio
Min
Ratio
TENDL Threshold 16.019 MeV
JEFF3.3 Threshold 16.019 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
20-Ca-48

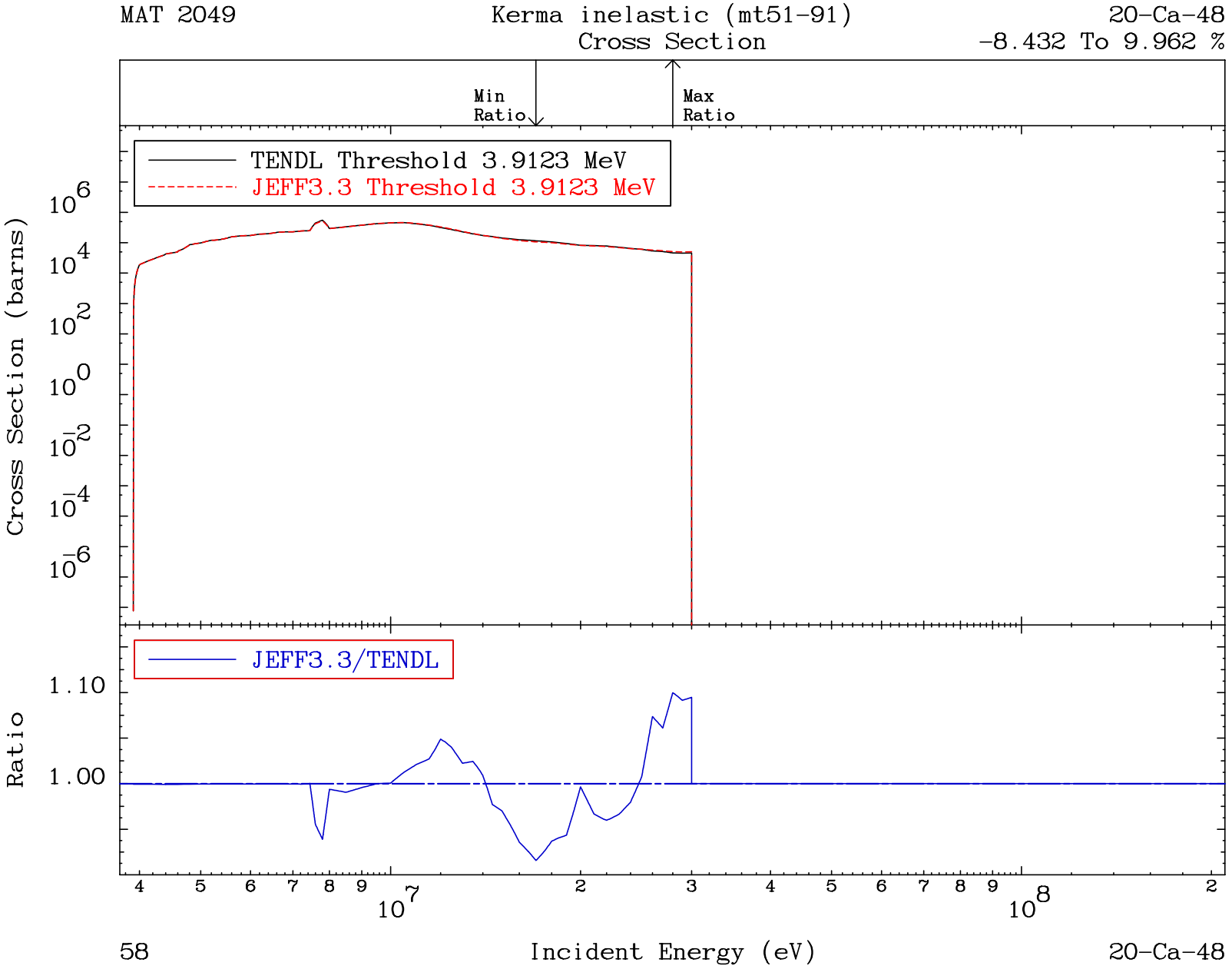

MAT 2049
He-3 Production
Cross Section
20-Ca-48
-41.94 To 34.65 %
Max
Ratio
TENDL Threshold 21.762 MeV
JEFF3.3 Threshold 21.803 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.2
0.8
20
40
60
80
100
120
140
160
180
200
53
Incident Energy (MeV)
20-Ca-48

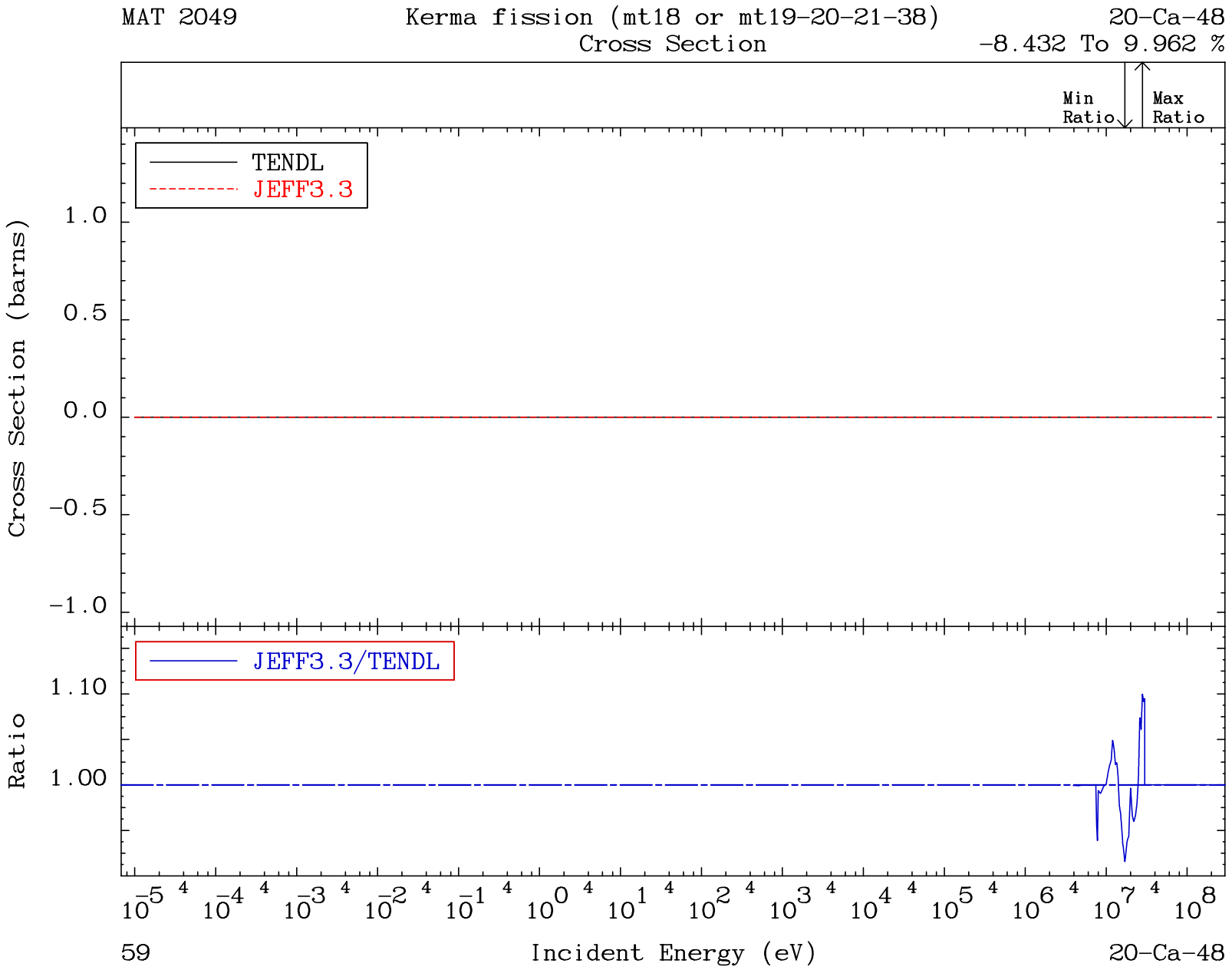

MAT 2049
He-4 Production
Cross Section
20-Ca-48
1.473 To 177.5 %
Max Ratio
Min Ratio
TENDL Threshold 8.9929 MeV
JEFF3.3 Threshold 8.9929 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
20-Ca-48

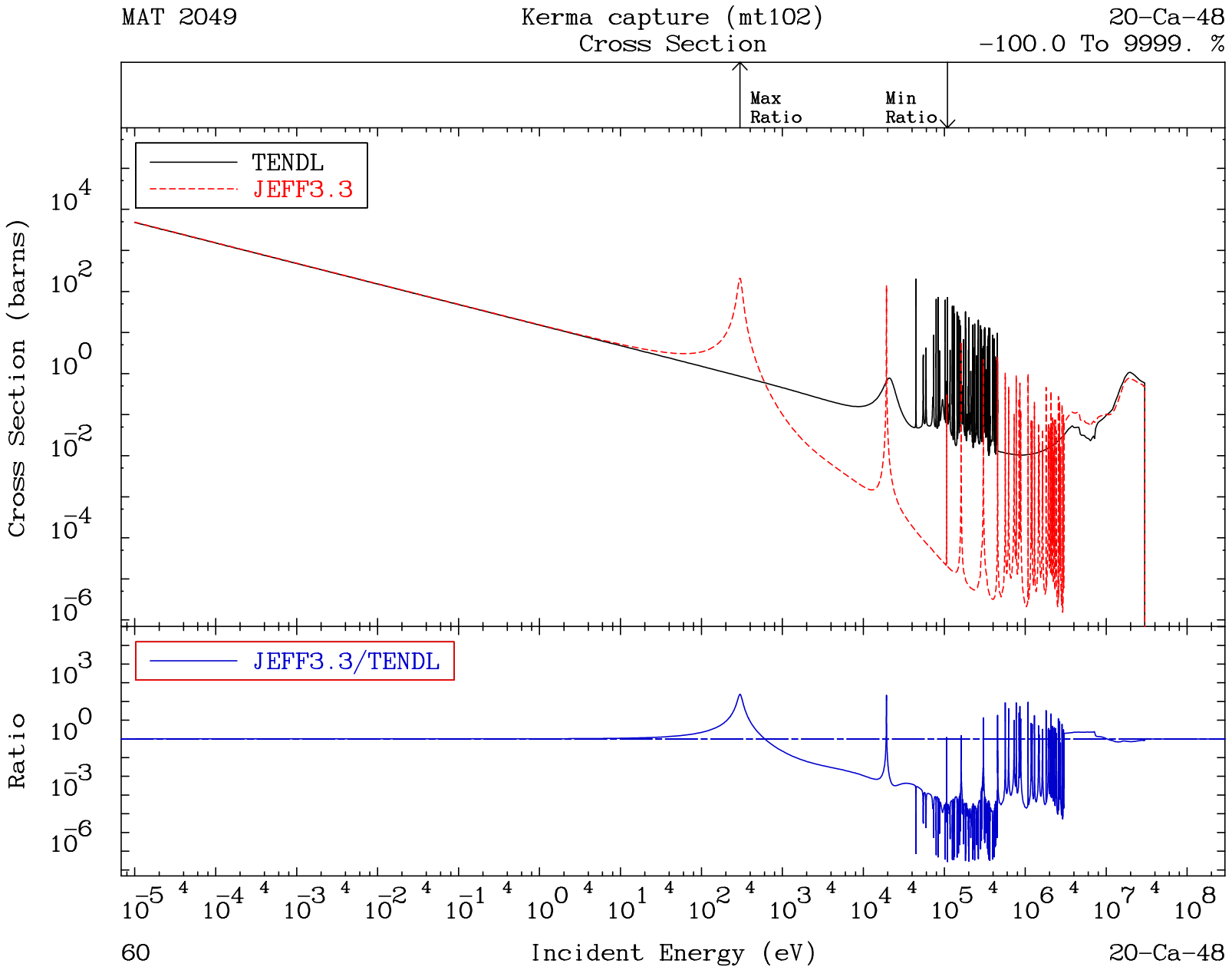

MAT 2049
Kerma total (eV-barns)
Cross Section
20-Ca-48
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
55
20-Ca-48

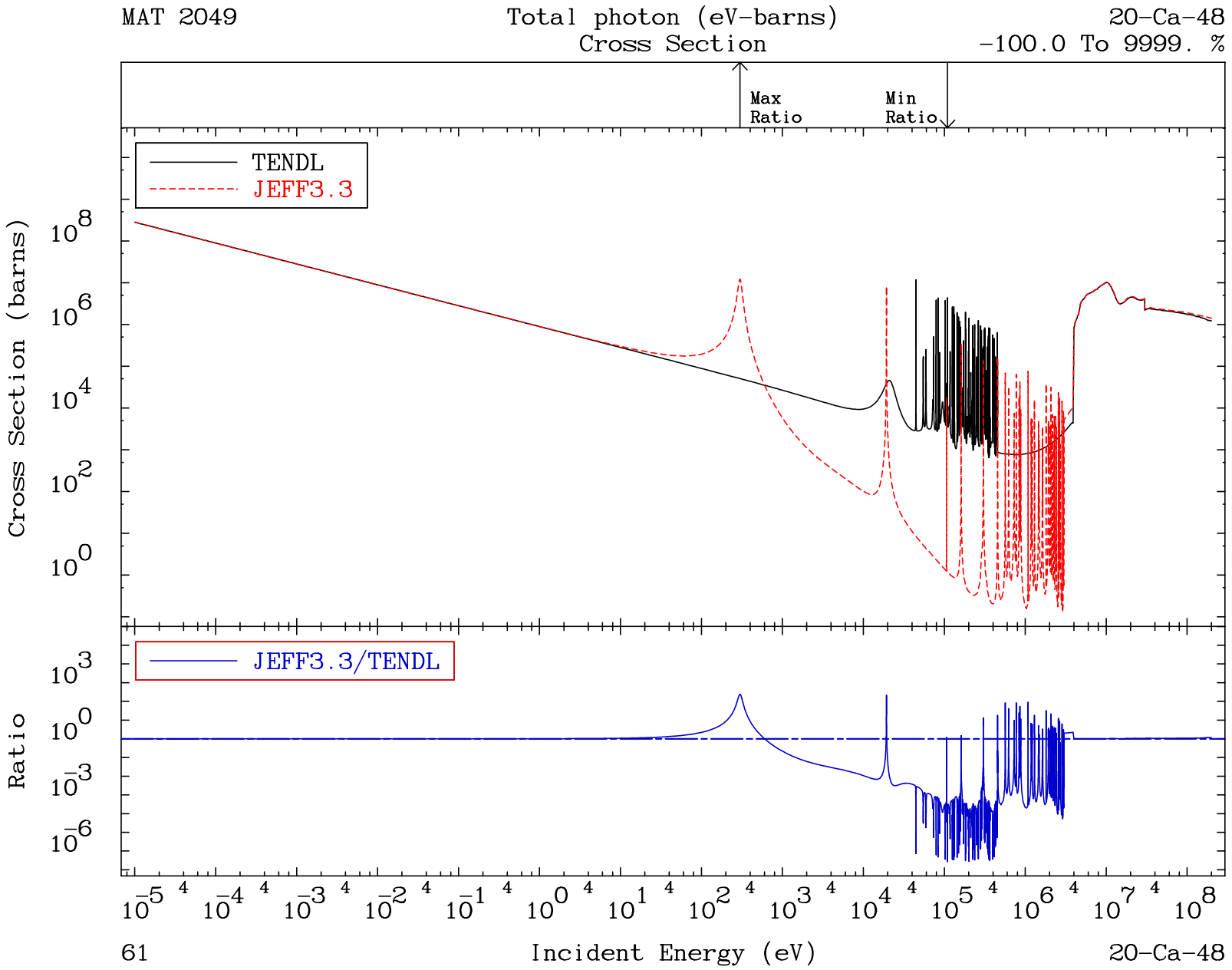

MAT 2049
Kerma elastic
Cross Section
20-Ca-48
-99.93 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
56
20-Ca-48

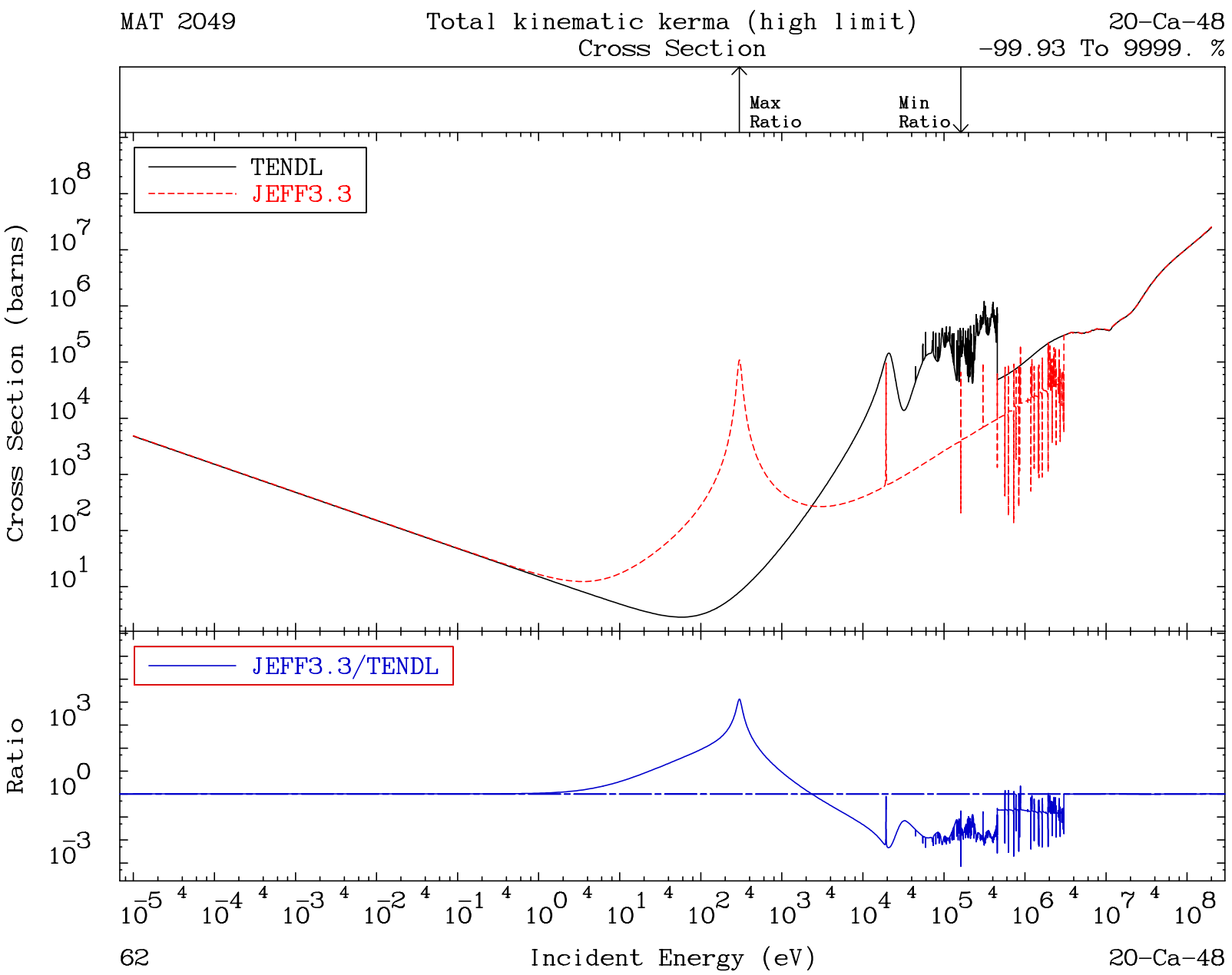

MAT 2049
Kerma non-elastic (all but mt2)
Cross Section
20-Ca-48
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
57
20-Ca-48

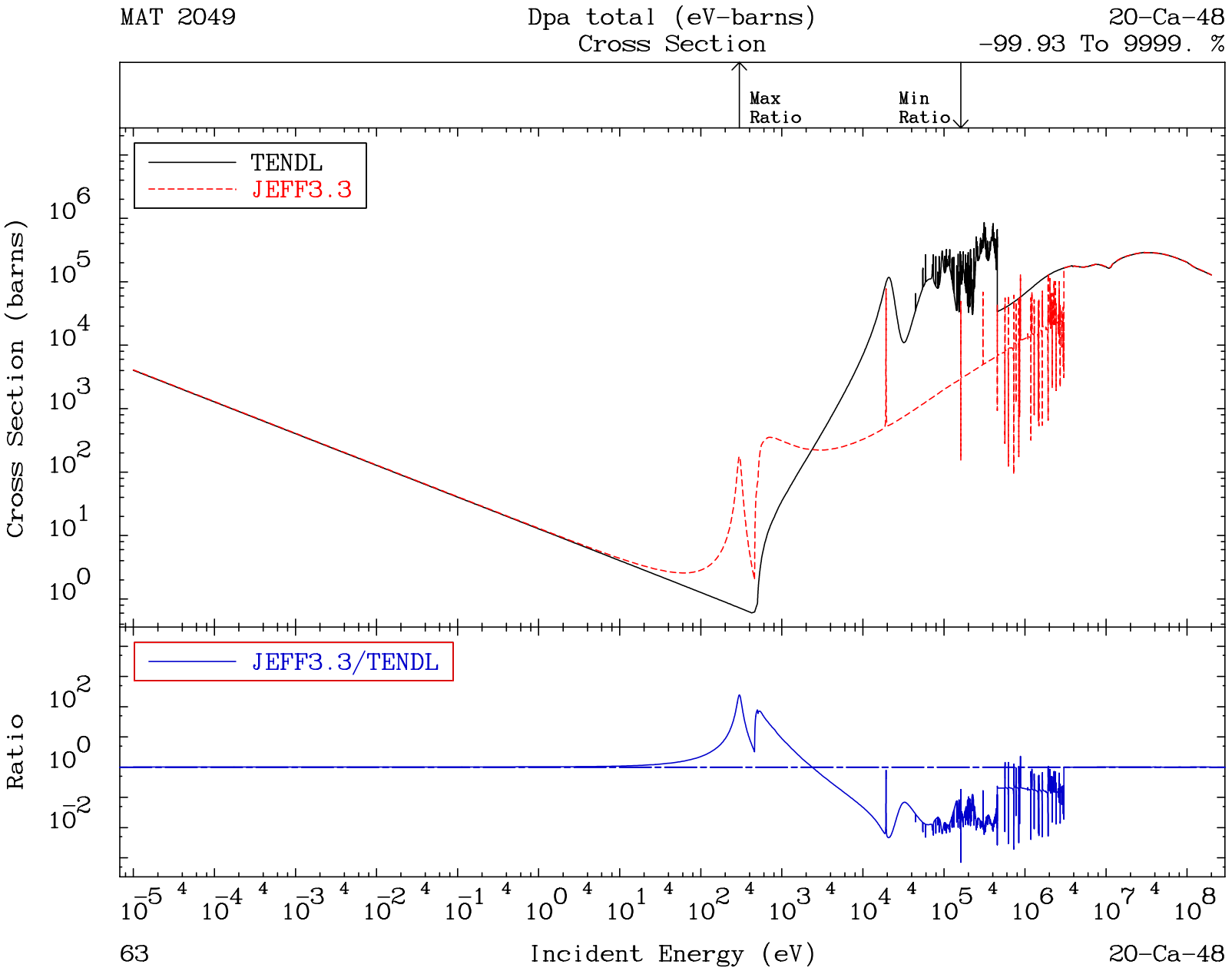

MAT 2049
Kerma inelastic (mt51-91)
Cross Section
20-Ca-48
-8.432 To 9.962 %
Min Ratio
Max Ratio
TENDL Threshold 3.9123 MeV
JEFF3.3 Threshold 3.9123 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
58
20-Ca-48

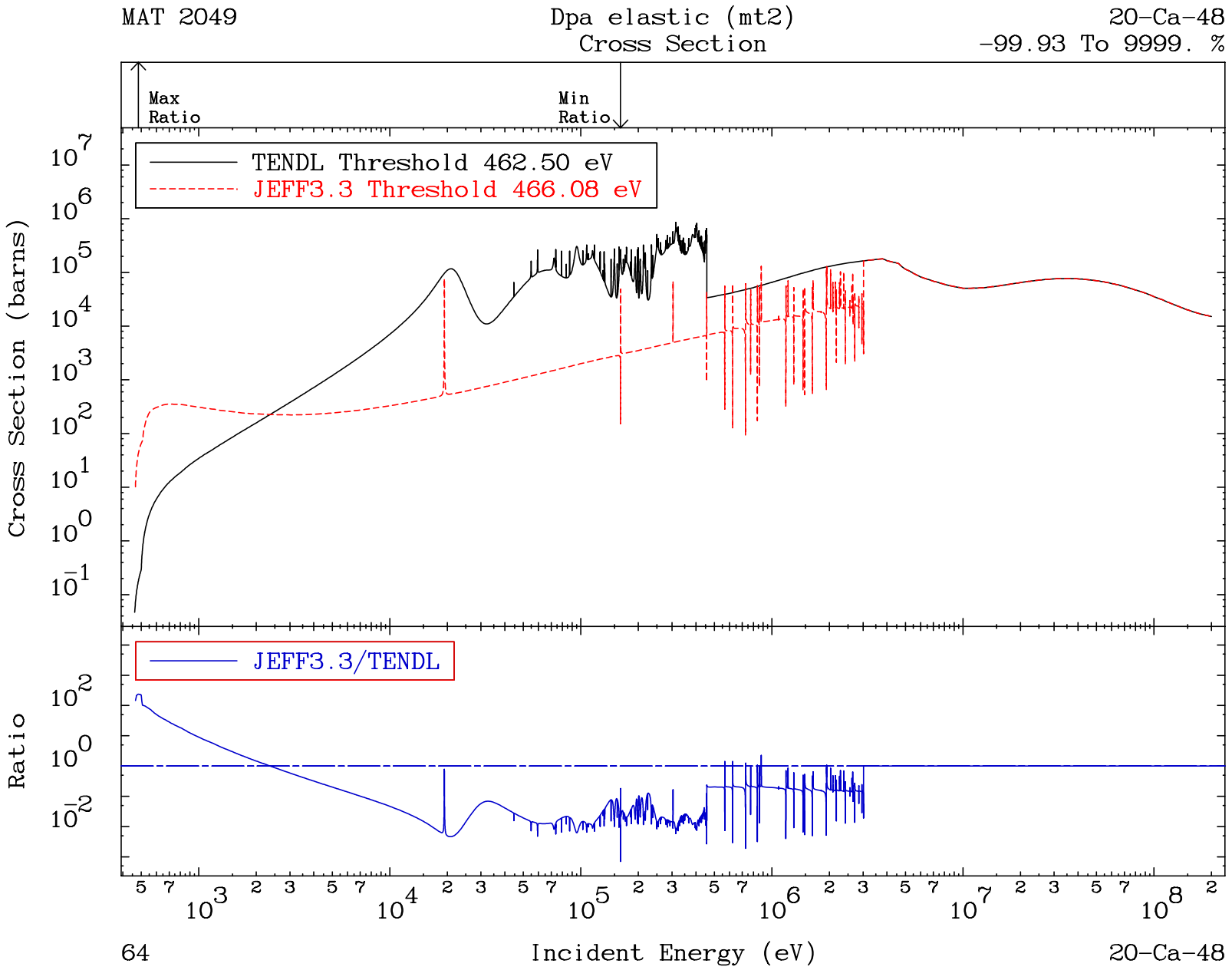

MAT 2049
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
20-Ca-48
-8.432 To 9.962 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.10
1.00
10-5 10-4 10-3 10-2 10-1 100 101 102 103 104 105 106 107 108
59
Incident Energy (eV)
20-Ca-48

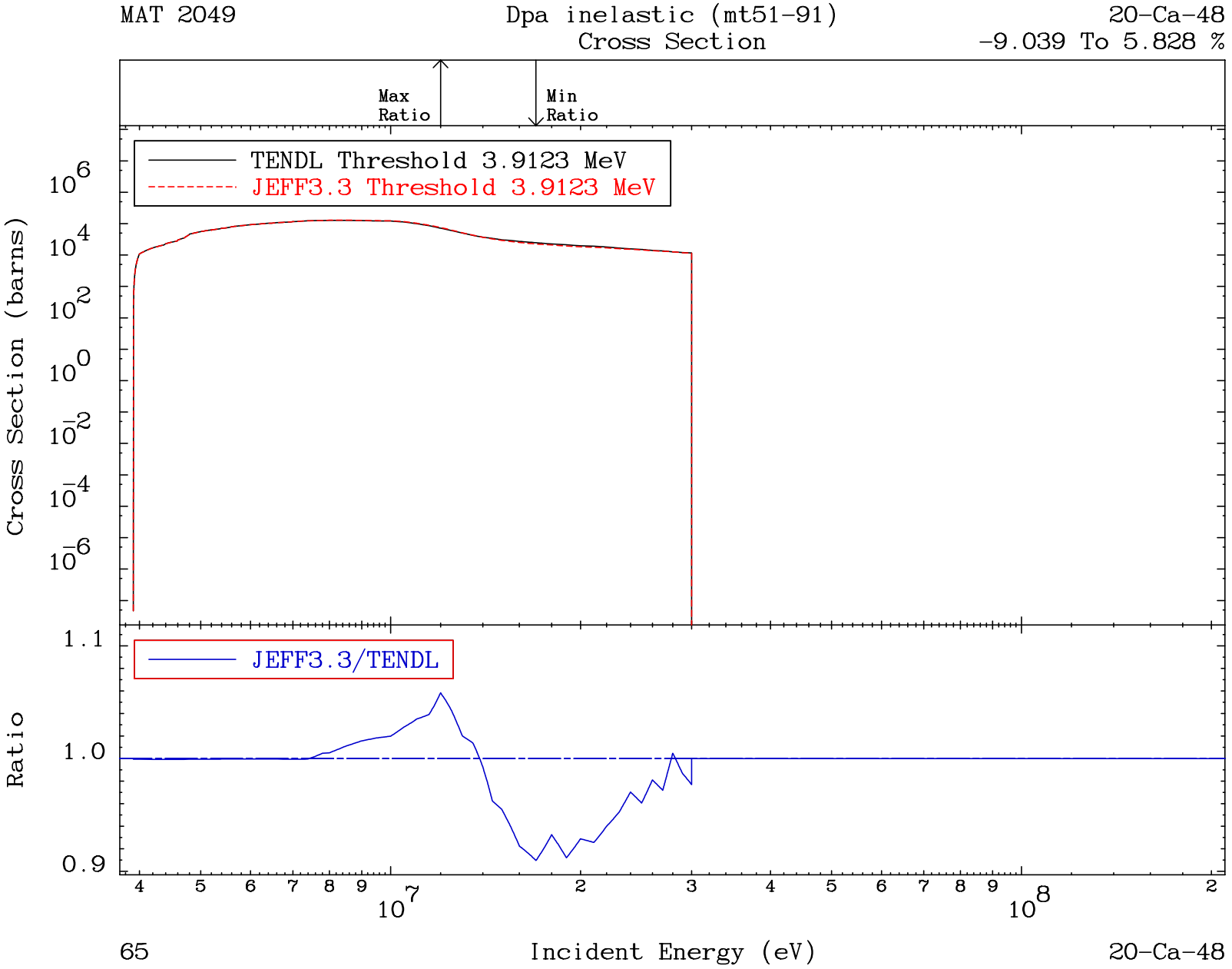

MAT 2049
Kerma capture (mt102)
Cross Section
20-Ca-48
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
60
20-Ca-48

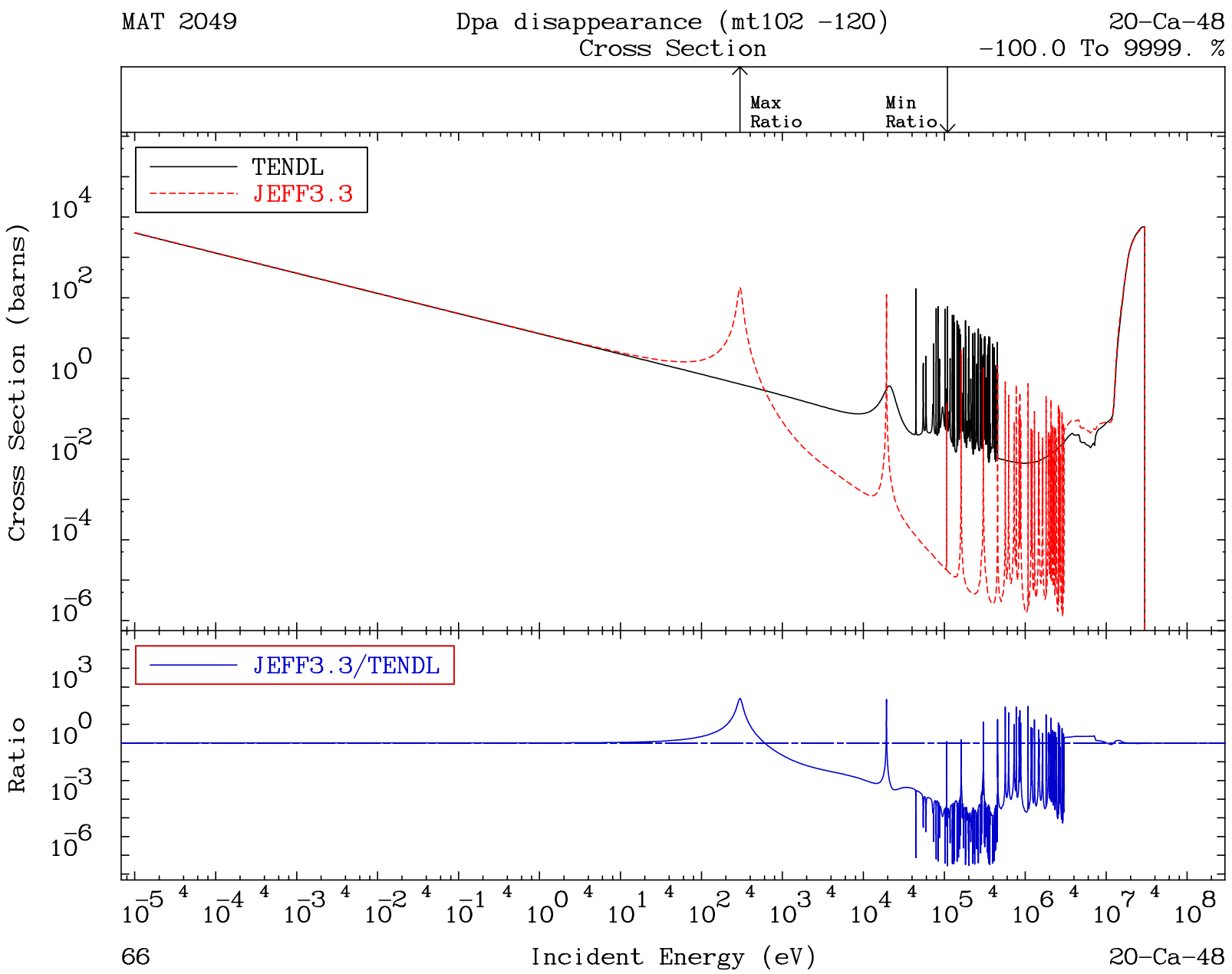

MAT 2049
Total photon (eV-barns)
Cross Section
20-Ca-48
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
61
20-Ca-48


MAT 2049
Total kinematic kerma (high limit)
Cross Section
20-Ca-48
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
62
20-Ca-48


MAT 2049
Dpa total (eV-barns)
Cross Section
20-Ca-48
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
63
Incident Energy (eV)
20-Ca-48


MAT 2049
Dpa elastic (mt2)
Cross Section
20-Ca-48
-99.93 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 462.50 eV
JEFF3.3 Threshold 466.08 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
20-Ca-48


MAT 2049
Dpa inelastic (mt51-91)
Cross Section
20-Ca-48
-9.039 To 5.828 %
Max Ratio
Min Ratio
TENDL Threshold 3.9123 MeV
JEFF3.3 Threshold 3.9123 MeV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
20-Ca-48


MAT 2049
Dpa disappearance (mt102 -120)
Cross Section
20-Ca-48
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
20-Ca-48