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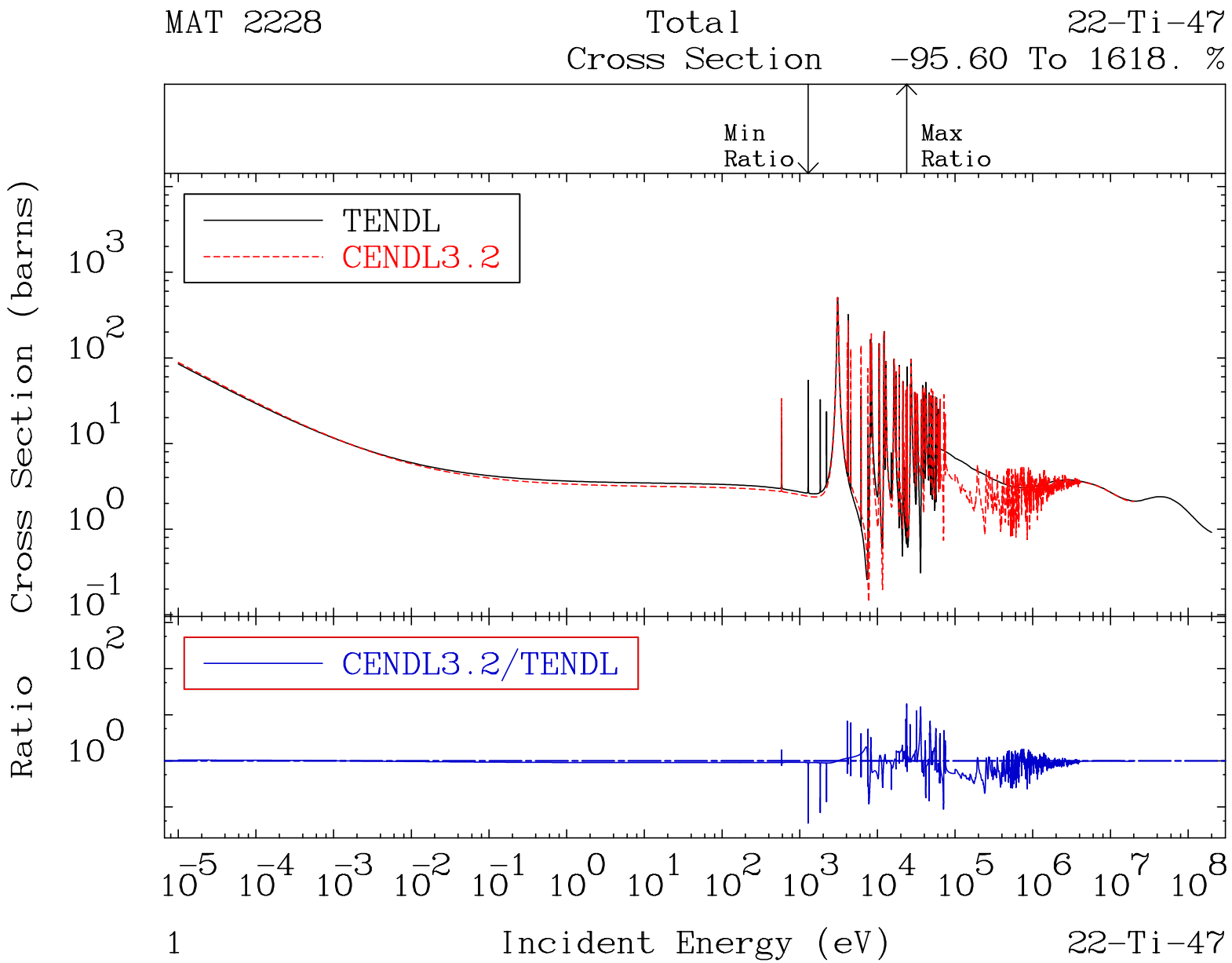
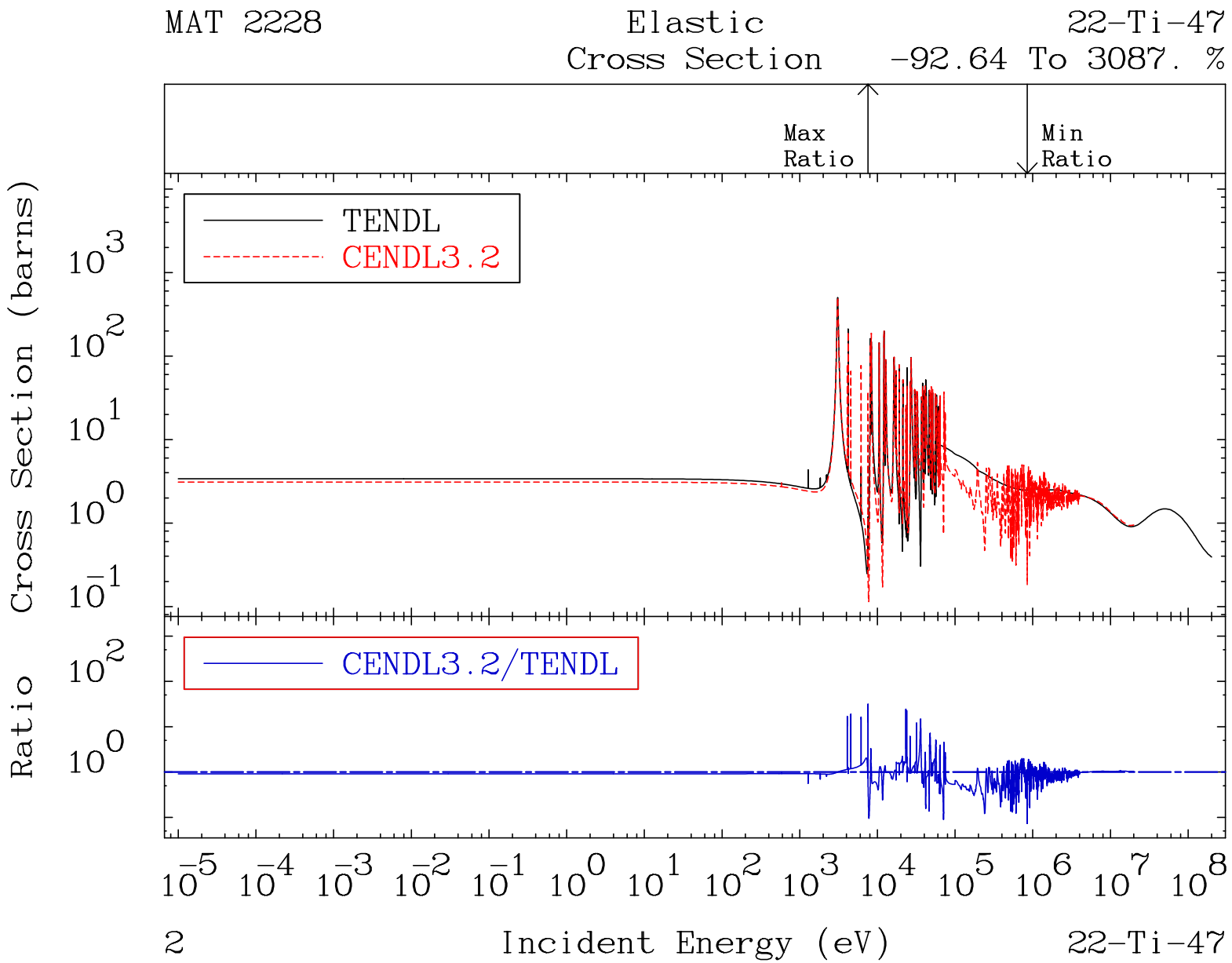
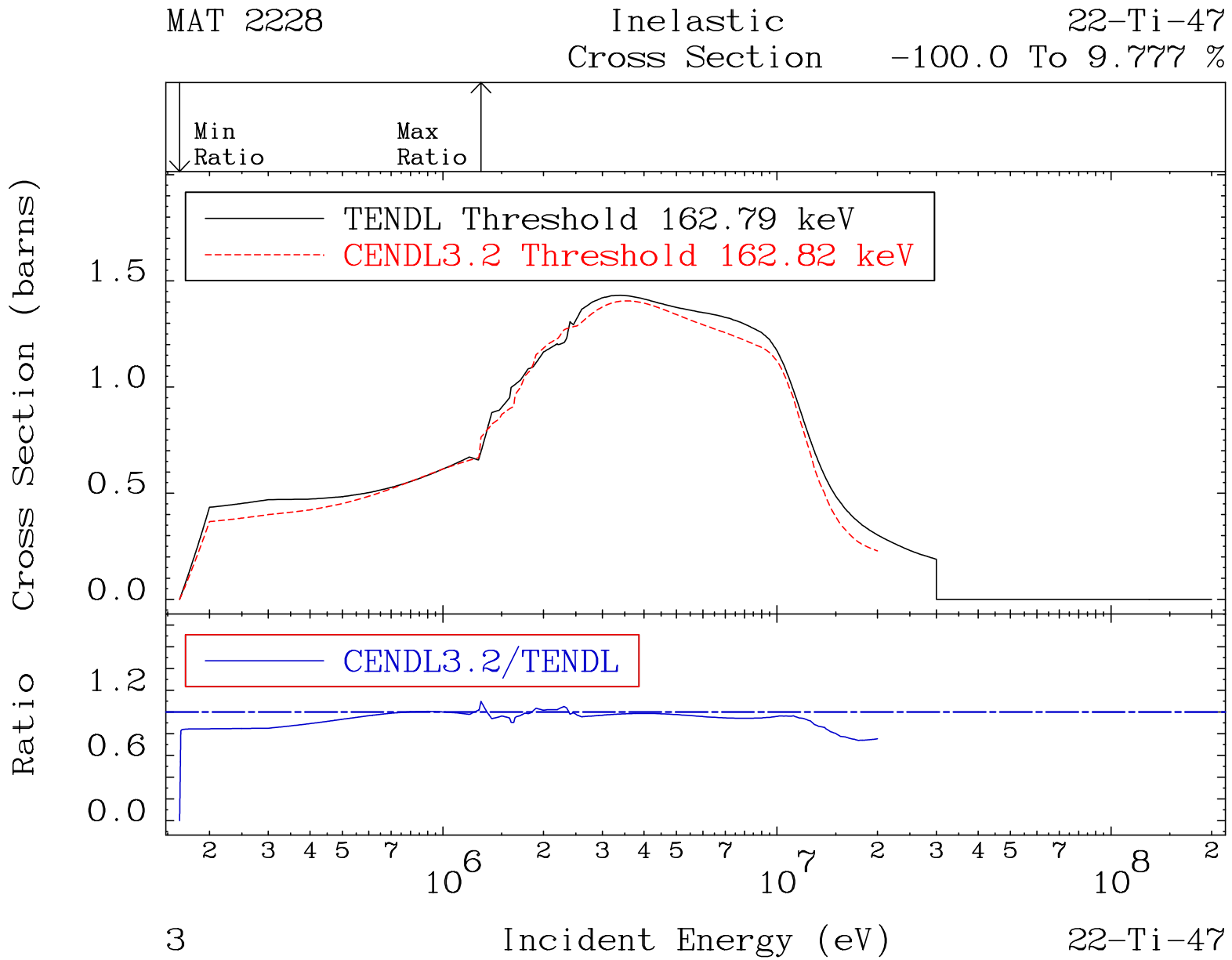
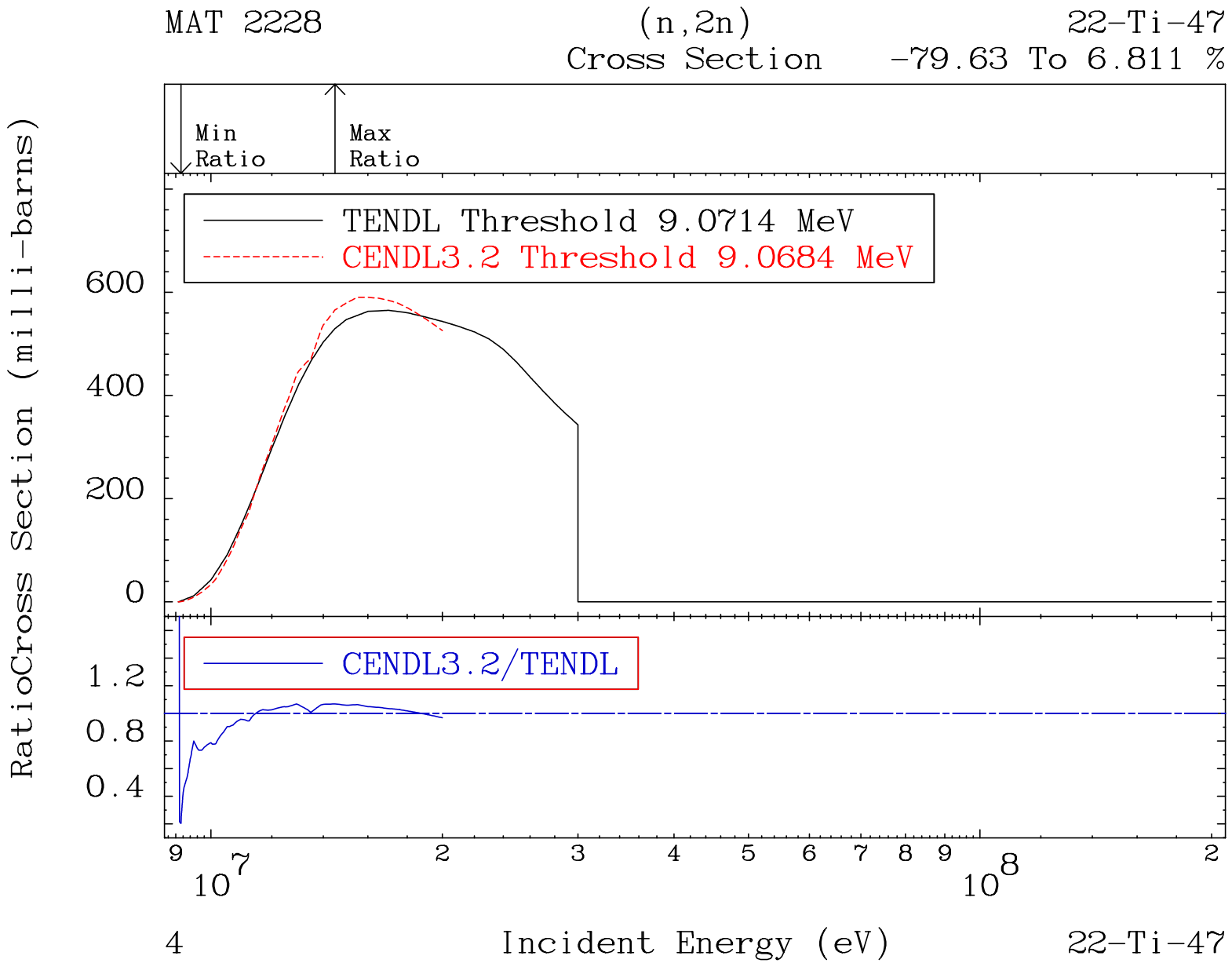
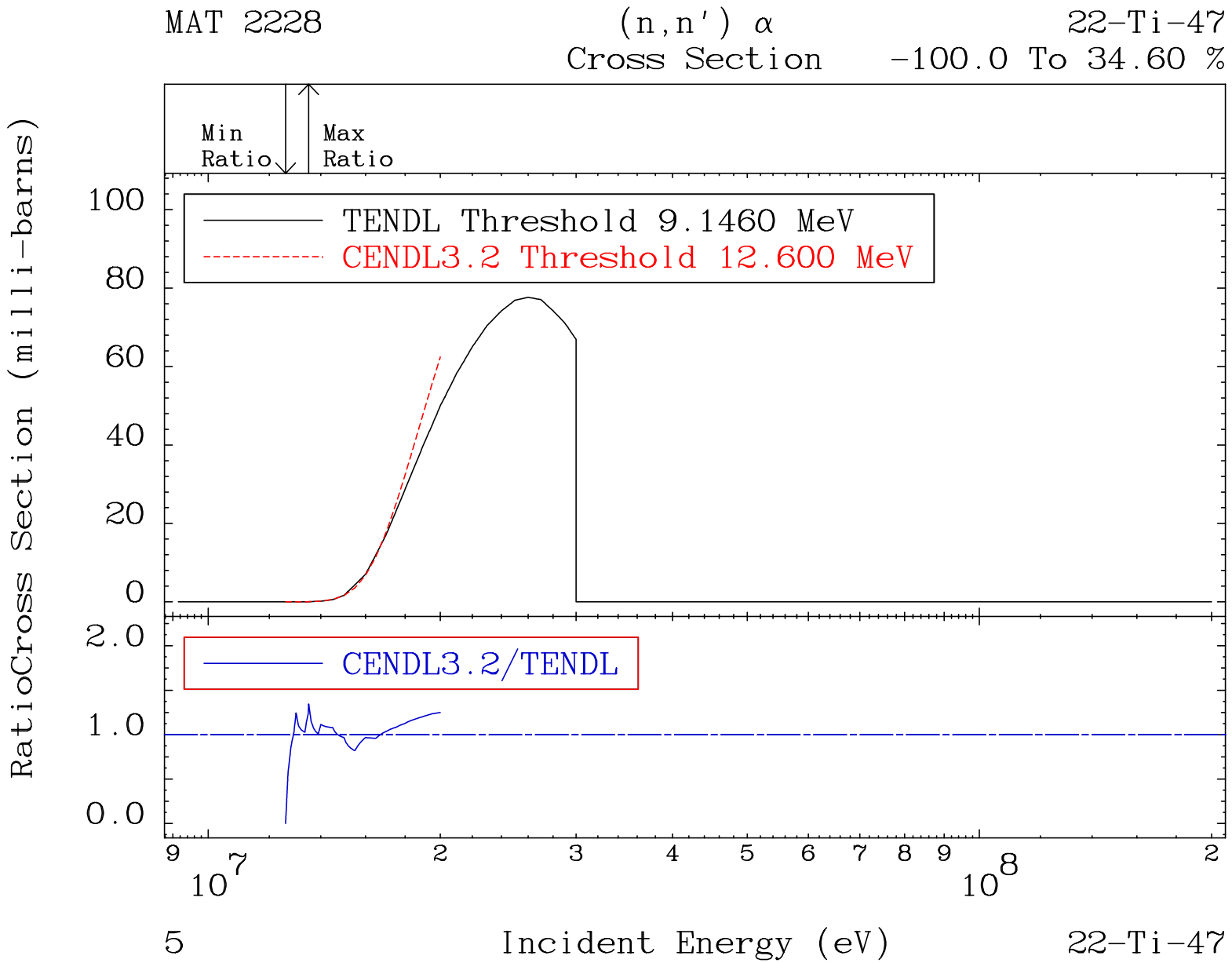
Press Mouse Button to Start

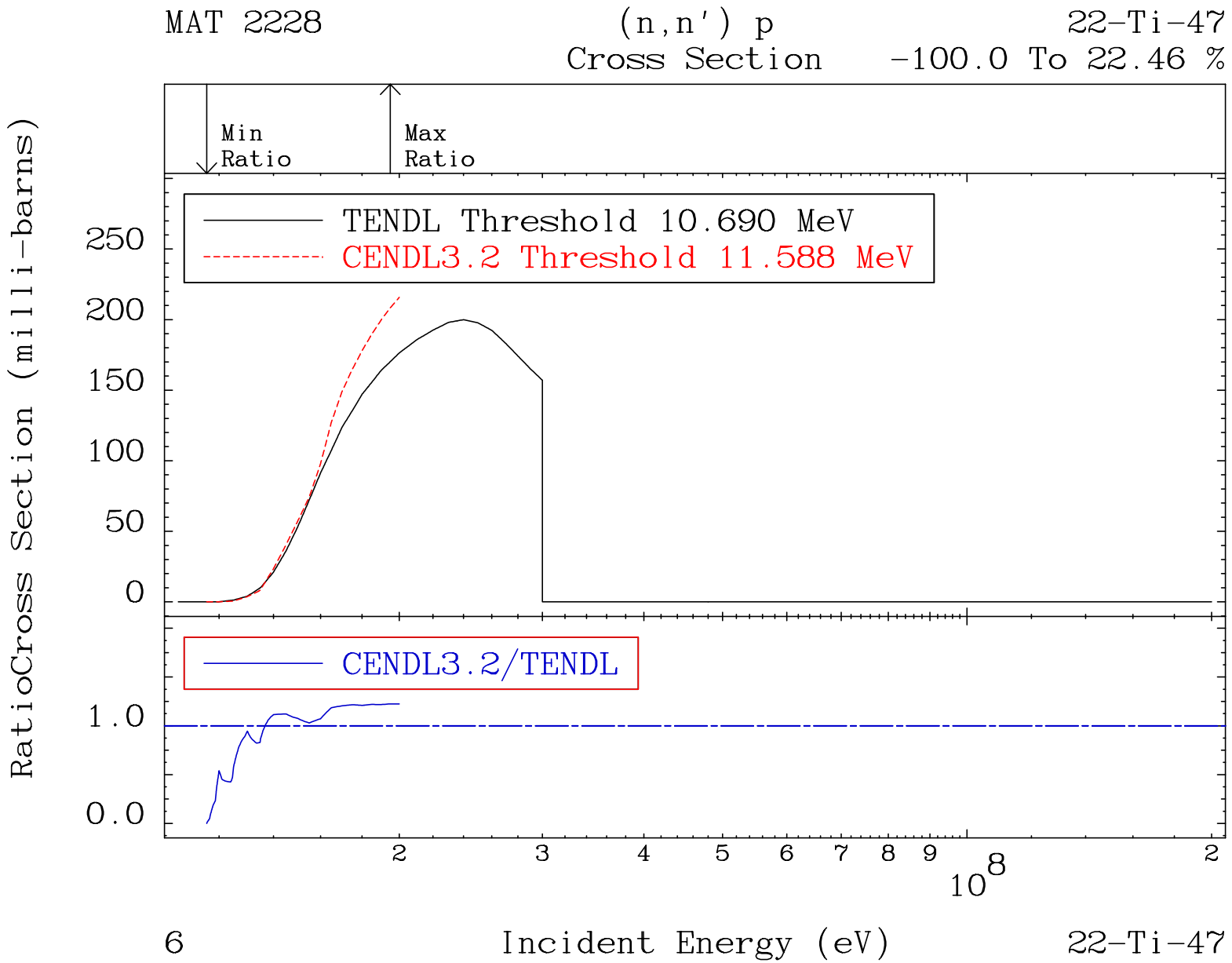

MAT 2228
Total
Cross Section
22-Ti-47
-95.60 To 1618. %
Min
Ratio
Max
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
22-Ti-47

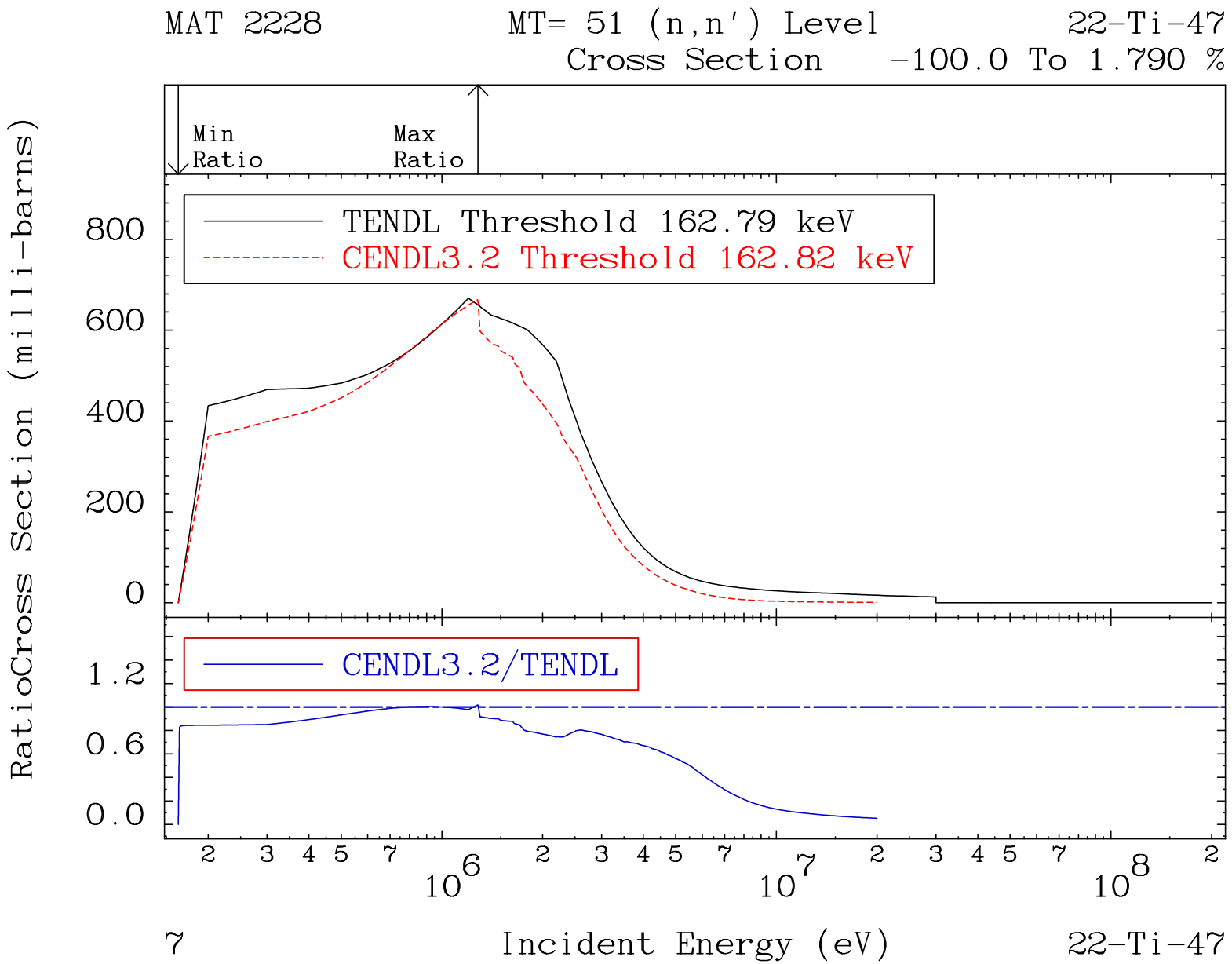

MAT 2228
Elastic
Cross Section
22-Ti-47
-92.64 To 3087. %
Max
Ratio
Min
Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
22-Ti-47

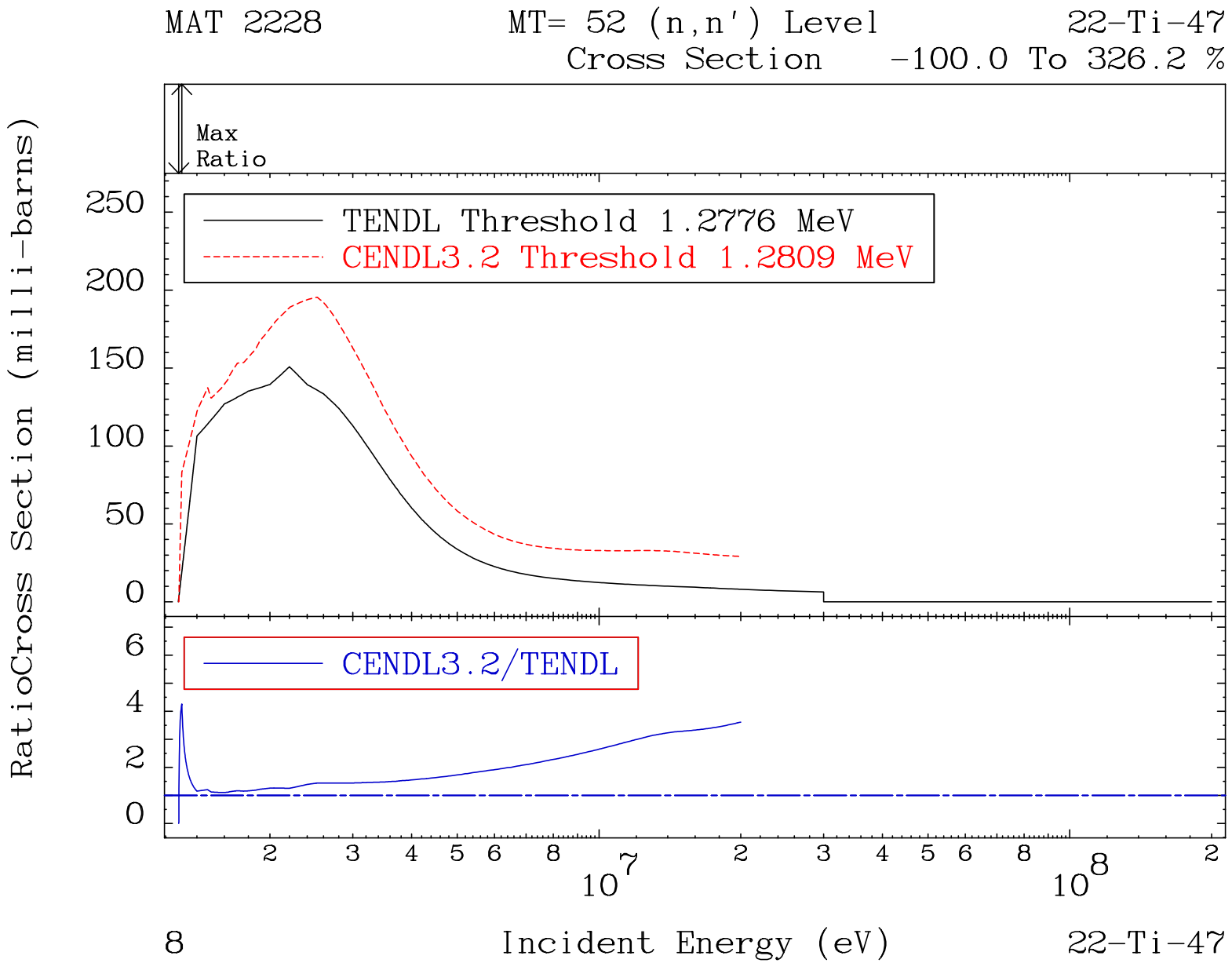

MAT 2228
Inelastic
Cross Section
22-Ti-47
-100.0 To 9.777 %
Min Ratio
Max Ratio
TENDL Threshold 162.79 keV
CENDL3.2 Threshold 162.82 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
3
22-Ti-47

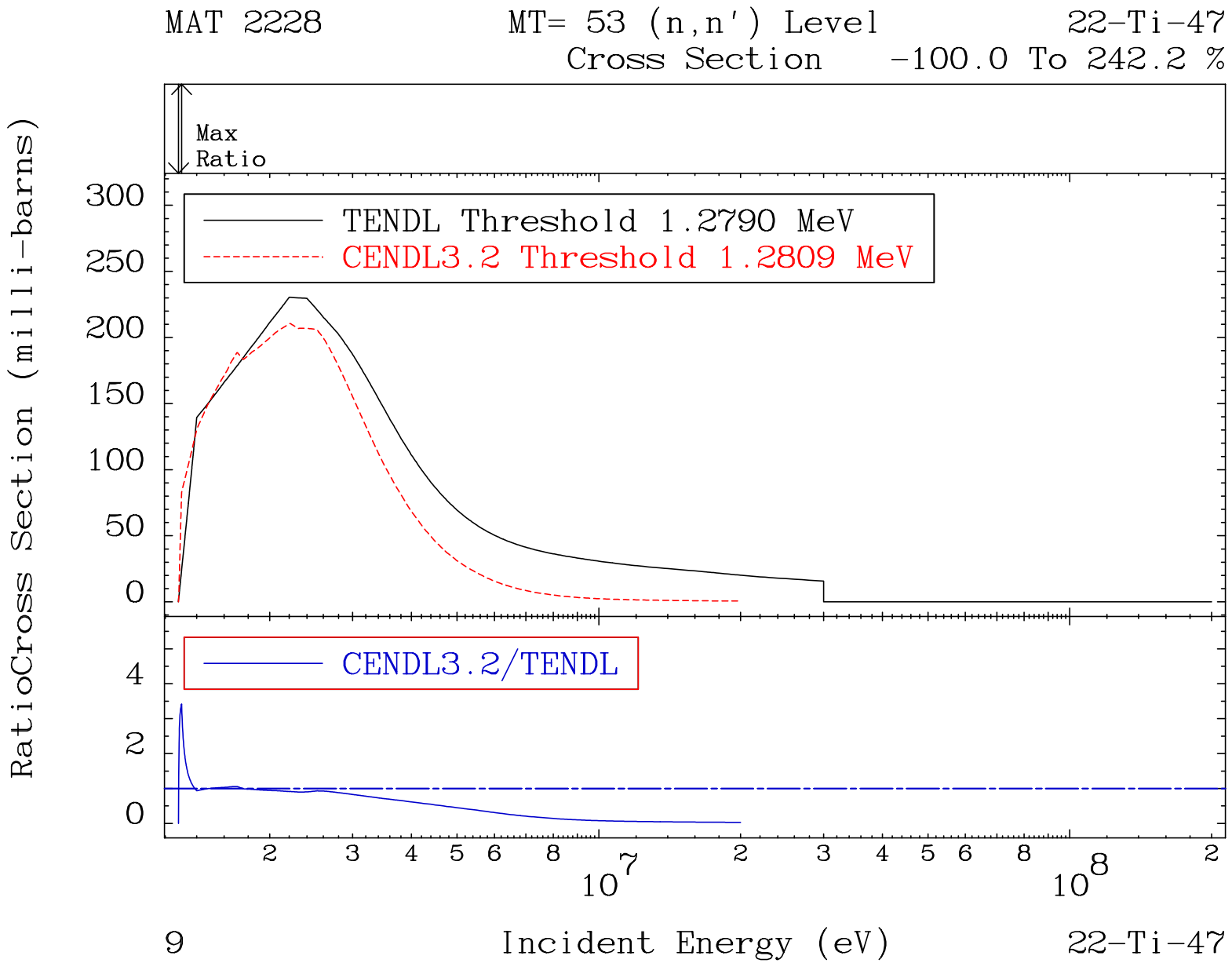

MAT 2228
(n,2n)
Cross Section
22-Ti-47
-79.63 To 6.811 %
Min Ratio
Max Ratio
TENDL Threshold 9.0714 MeV
CENDL3.2 Threshold 9.0684 MeV
600
400
200
0
CENDL3.2/TENDL
1.2
0.8
0.4
9
2
3
4
5
6
7
8
9
2
10^7
10^8
RatioCross Section (milli-barns)
4
Incident Energy (eV)
22-Ti-47

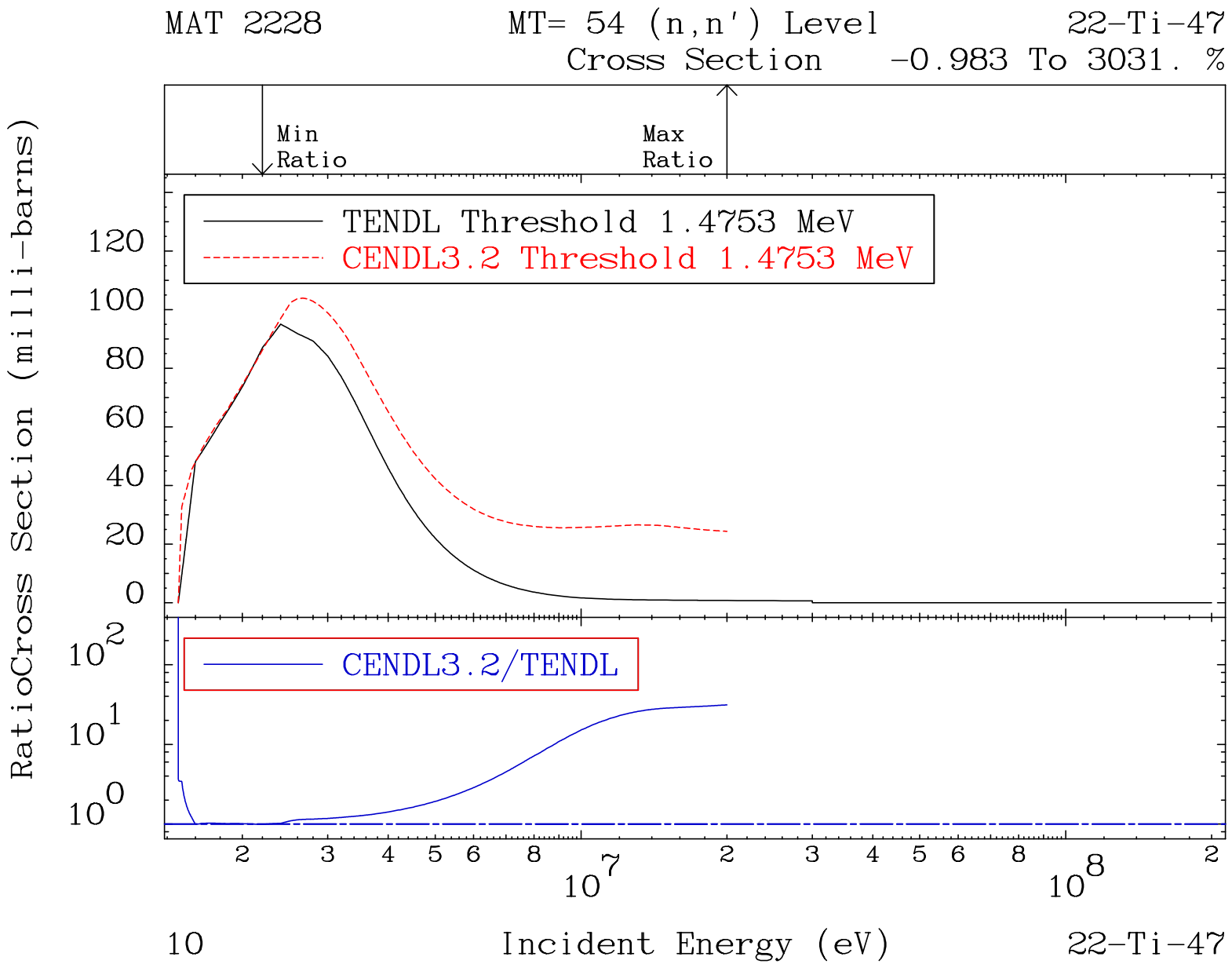

MAT 2228
(n,n') α
Cross Section
22-Ti-47
-100.0 To 34.60 %
Min Ratio
Max Ratio
TENDL Threshold 9.1460 MeV
CENDL3.2 Threshold 12.600 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
22-Ti-47

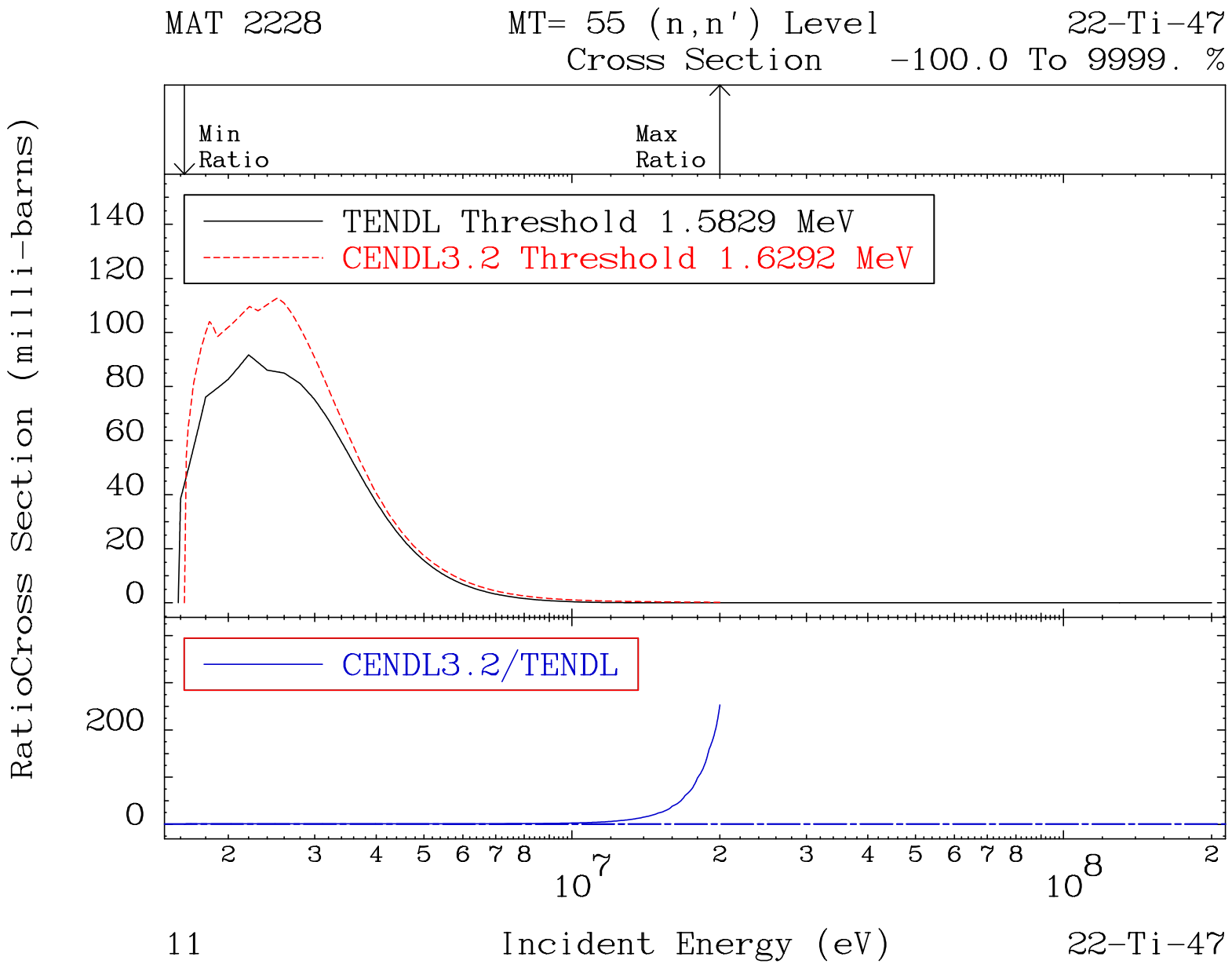

MAT 2228
(n,n') p
Cross Section
22-Ti-47
-100.0 To 22.46 %
Min Ratio
Max Ratio
TENDL Threshold 10.690 MeV
CENDL3.2 Threshold 11.588 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
22-Ti-47

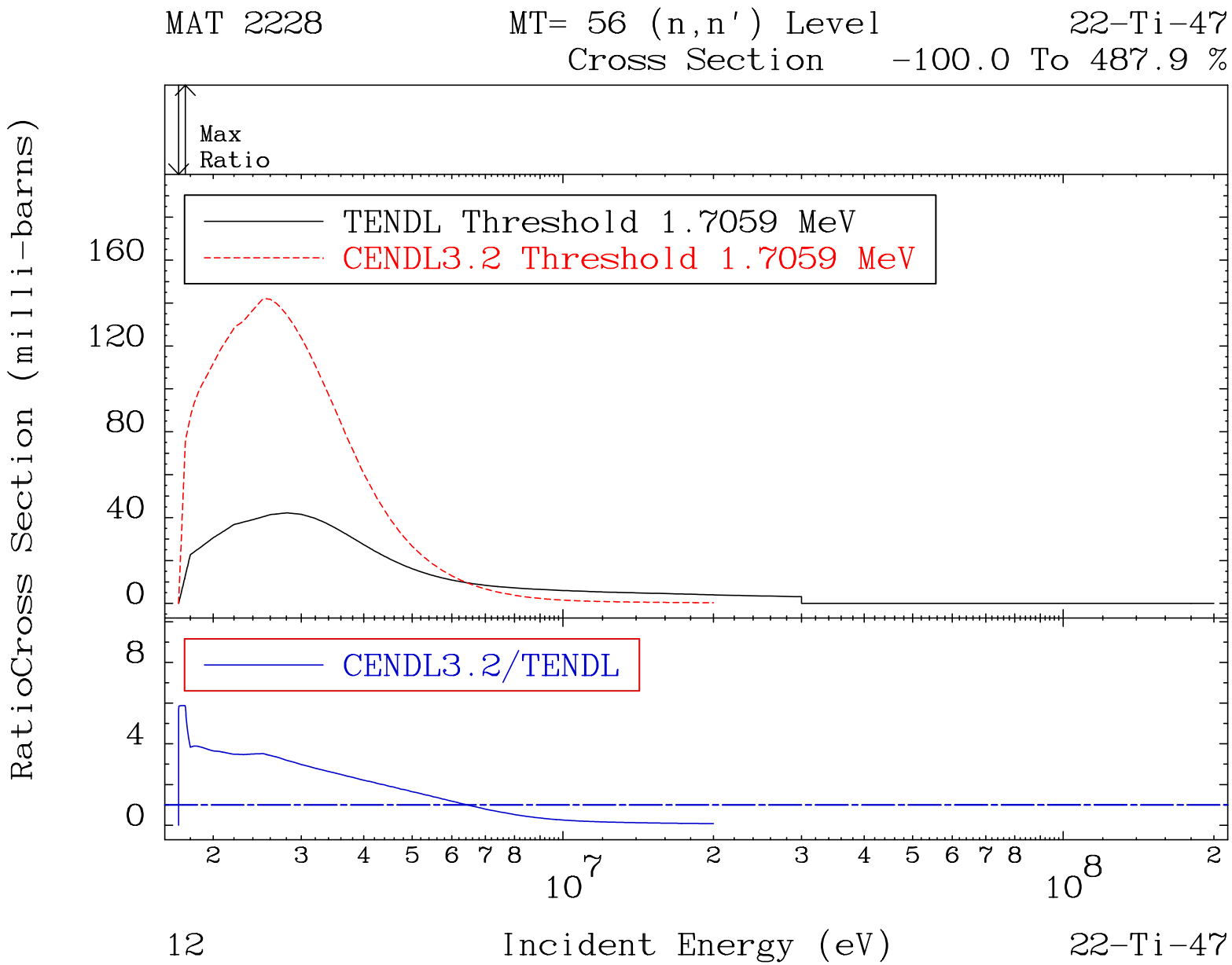

MAT 2228
MT= 51 (n,n') Level
22-Ti-47
Cross Section -100.0 To 1.790 %
Min Ratio
Max Ratio
TENDL Threshold 162.79 keV
CENDL3.2 Threshold 162.82 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
7
Incident Energy (eV)
22-Ti-47

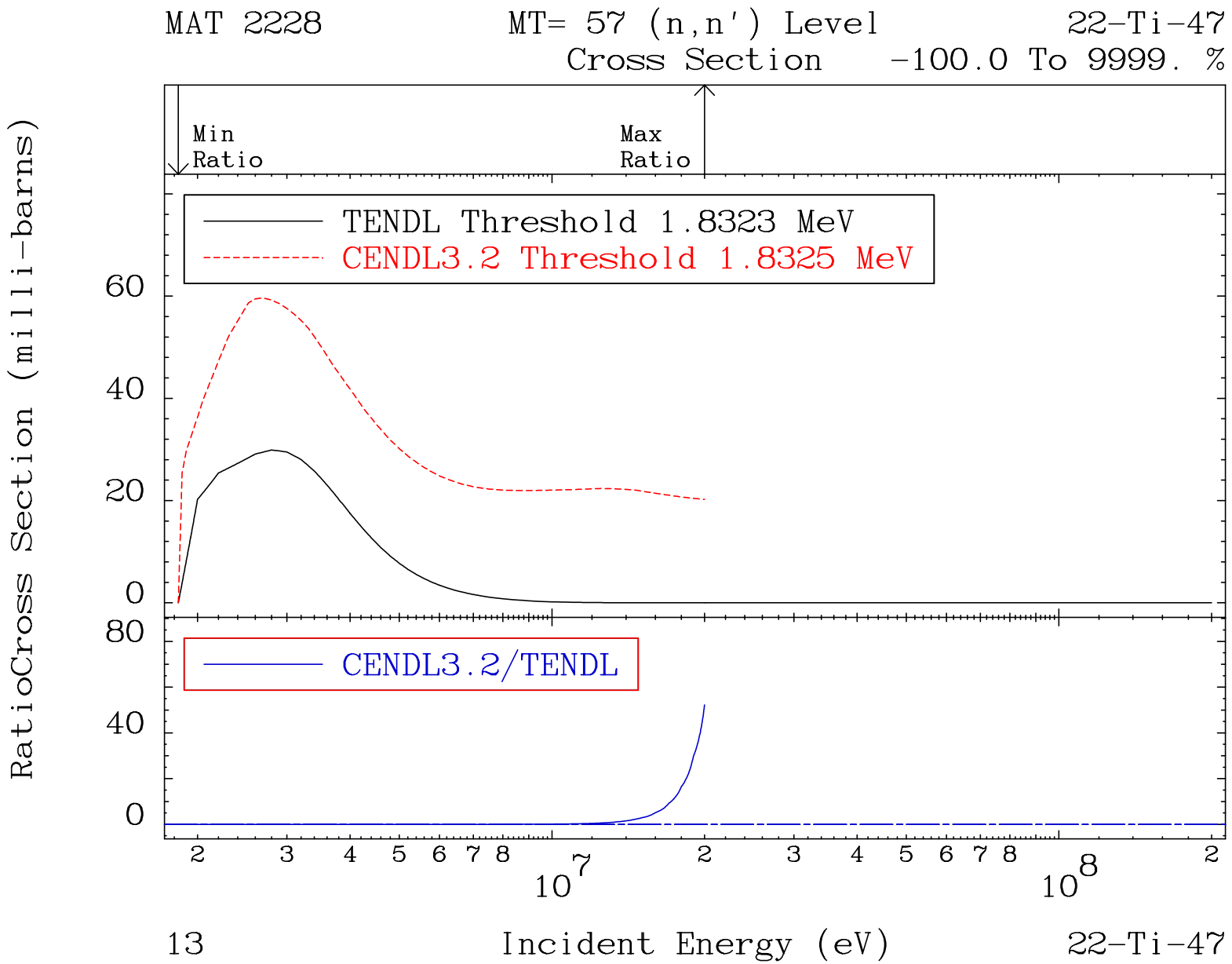

MAT 2228
MT= 52 (n,n') Level
22-Ti-47
Cross Section
-100.0 To 326.2 %
Max
Ratio
TENDL Threshold 1.2776 MeV
CENDL3.2 Threshold 1.2809 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
6
4
2
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
8
Incident Energy (eV)
22-Ti-47

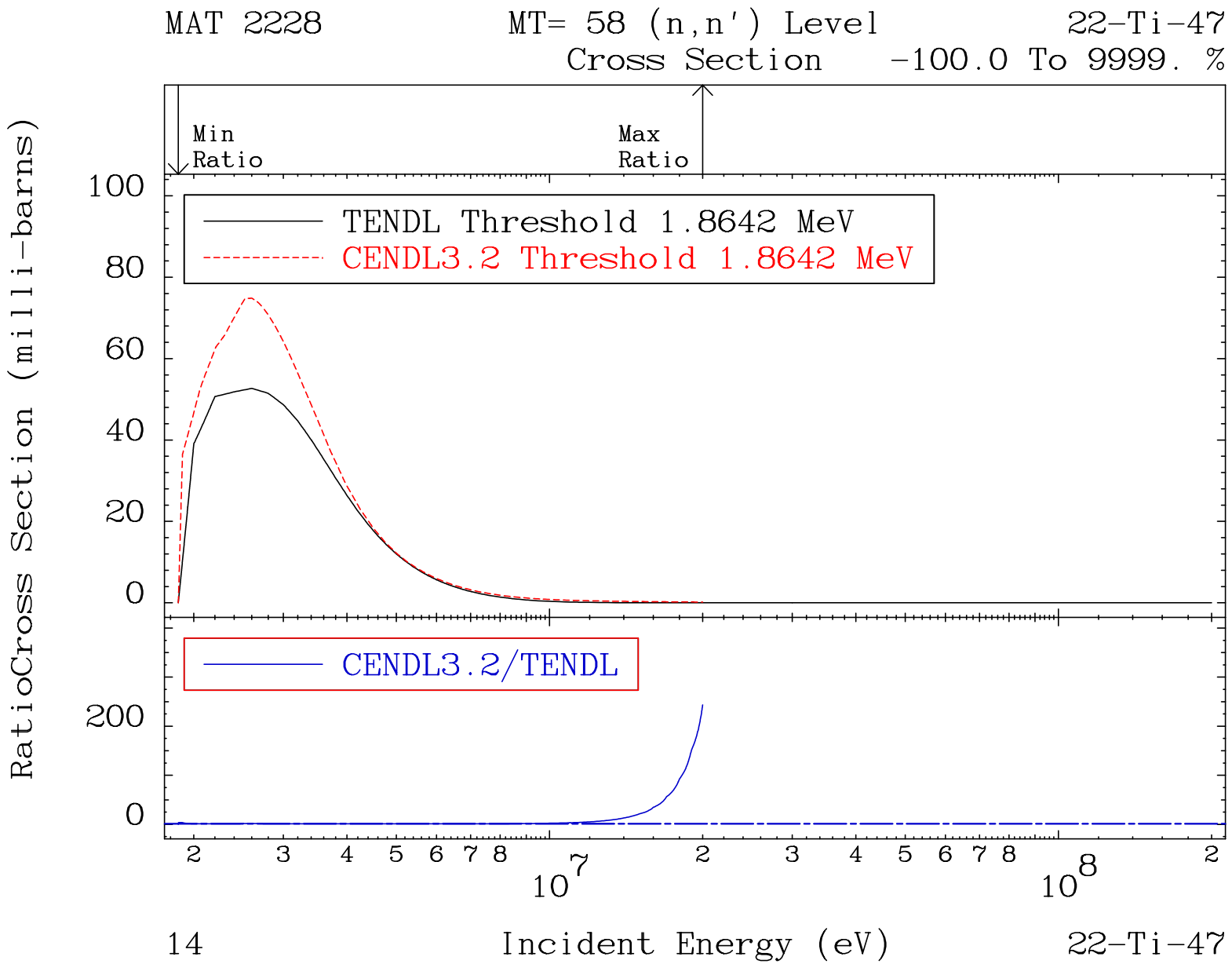

MAT 2228
MT= 53 (n,n') Level
22-Ti-47
Cross Section
-100.0 To 242.2 %
Max
Ratio
TENDL Threshold 1.2790 MeV
CENDL3.2 Threshold 1.2809 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
9
Incident Energy (eV)
22-Ti-47

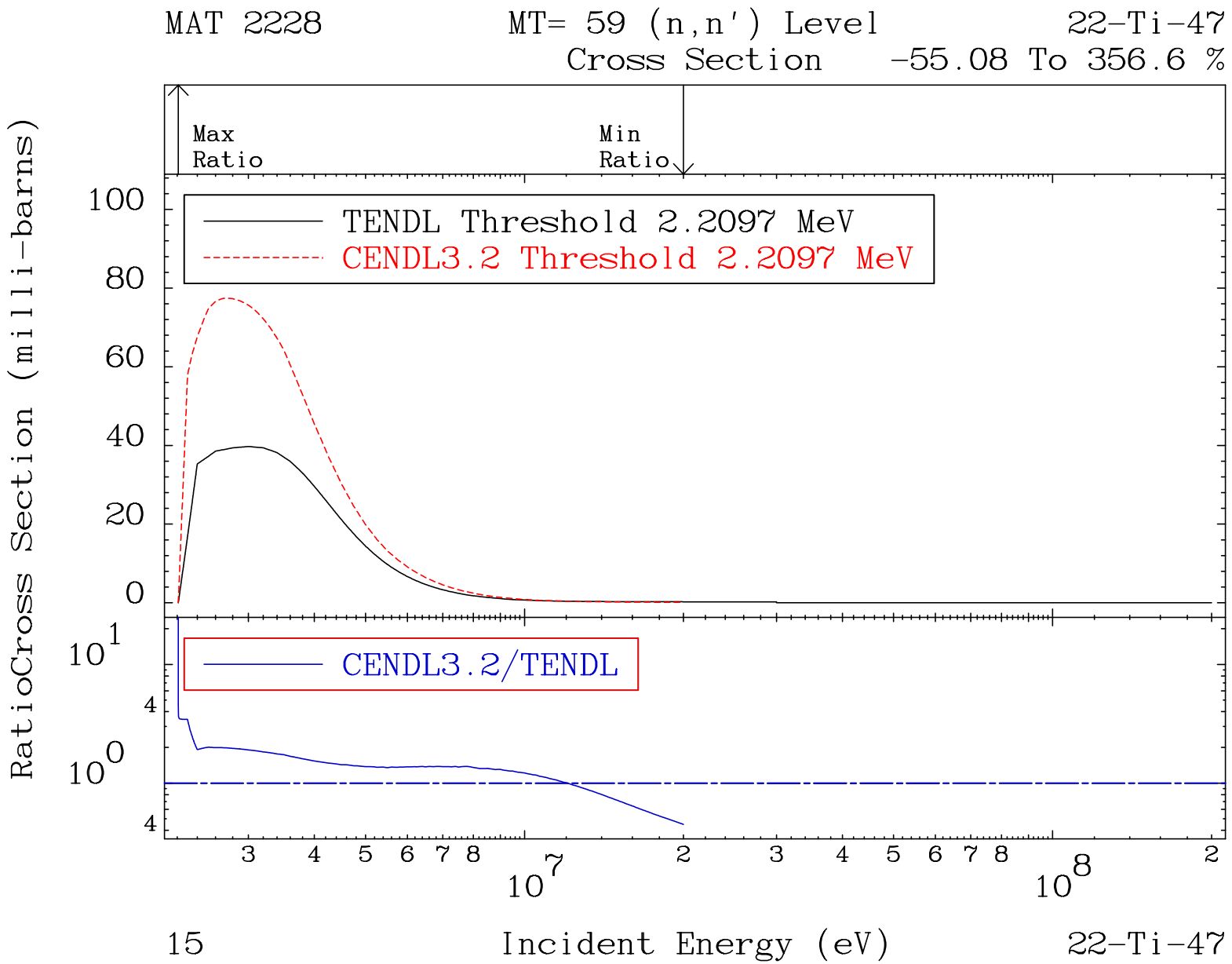

MAT 2228
MT= 54 (n,n') Level
22-Ti-47
Cross Section -0.983 To 3031. %
Min Ratio
Max Ratio
TENDL Threshold 1.4753 MeV
CENDL3.2 Threshold 1.4753 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^2
10^1
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
10
Incident Energy (eV)
22-Ti-47

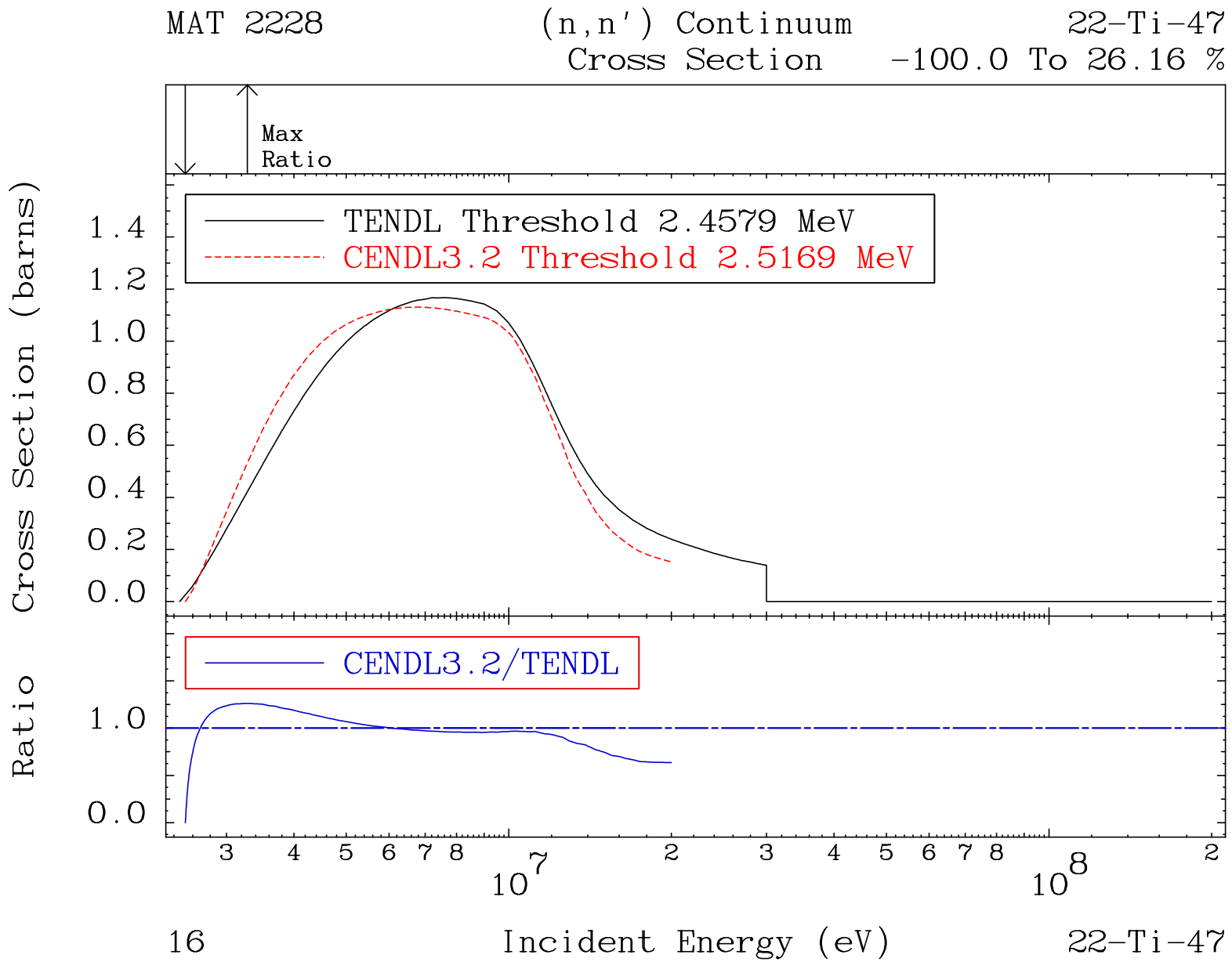

MAT 2228
MT= 55 (n,n') Level
22-Ti-47
Cross Section
-100.0 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5829 MeV
CENDL3.2 Threshold 1.6292 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
22-Ti-47

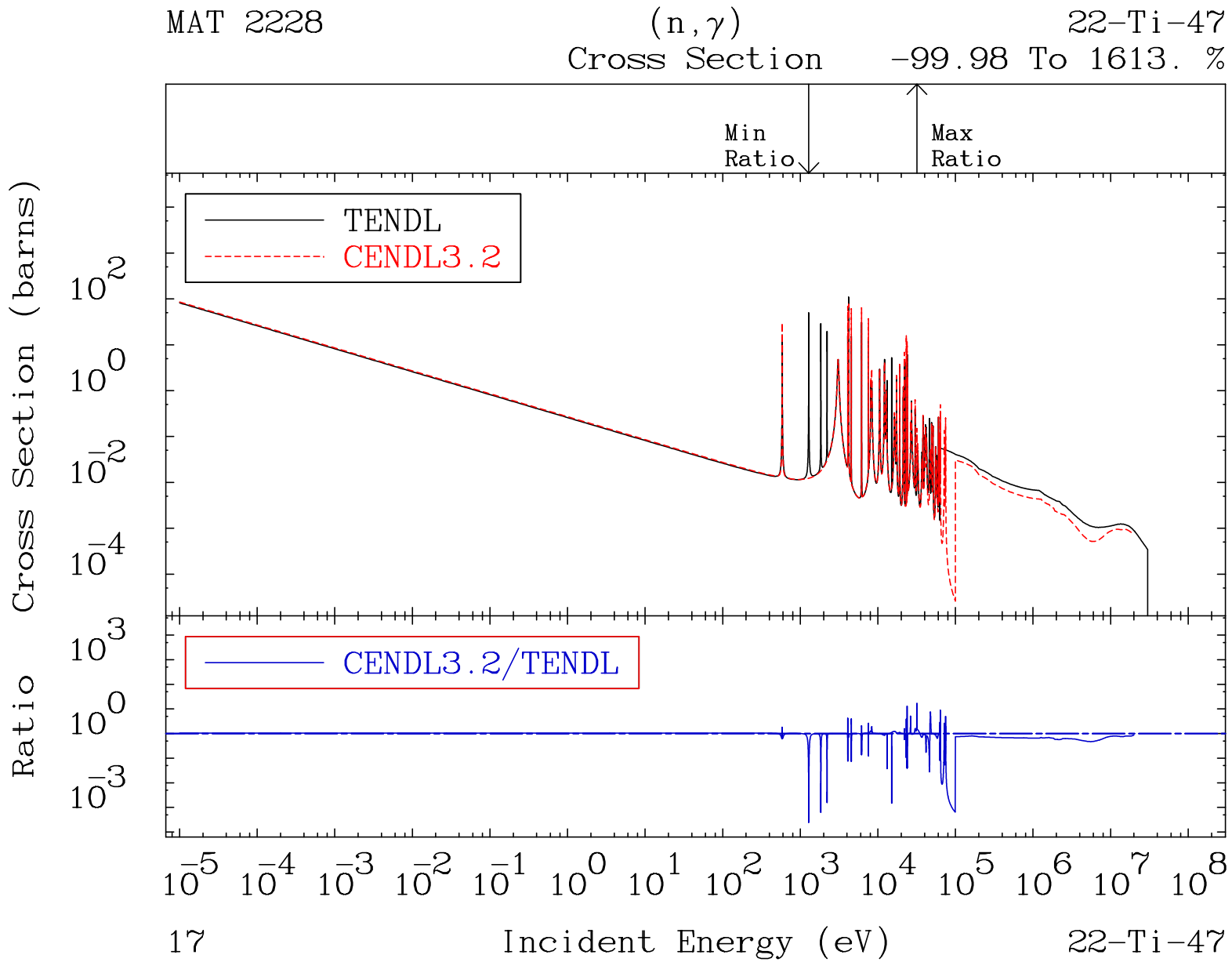

MAT 2228
MT= 56 (n,n') Level
22-Ti-47
Cross Section
-100.0 To 487.9 %
Max
Ratio
TENDL Threshold 1.7059 MeV
CENDL3.2 Threshold 1.7059 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
22-Ti-47

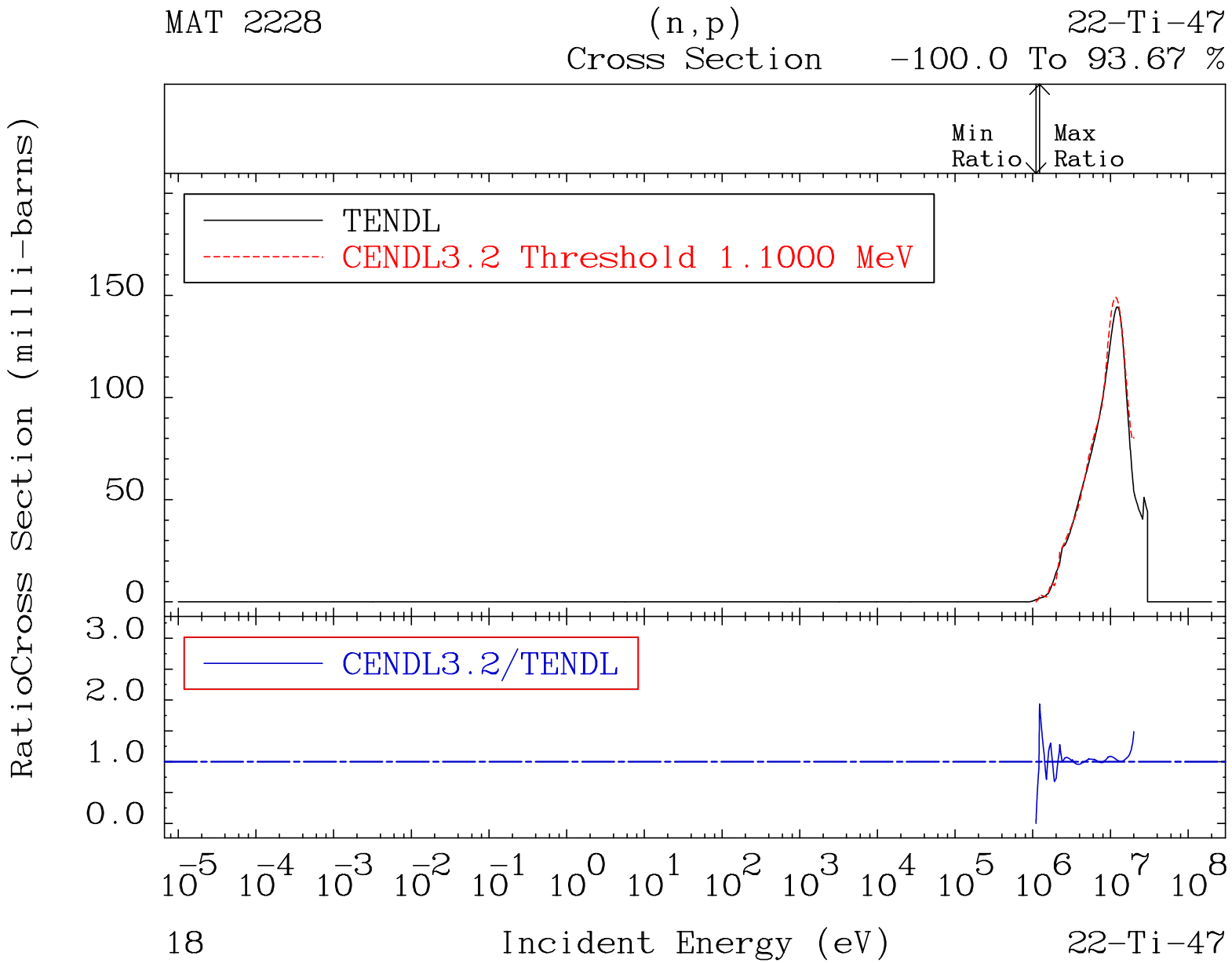

MAT 2228
MT= 57 (n,n') Level
22-Ti-47
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8323 MeV
CENDL3.2 Threshold 1.8325 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
40
20
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
22-Ti-47

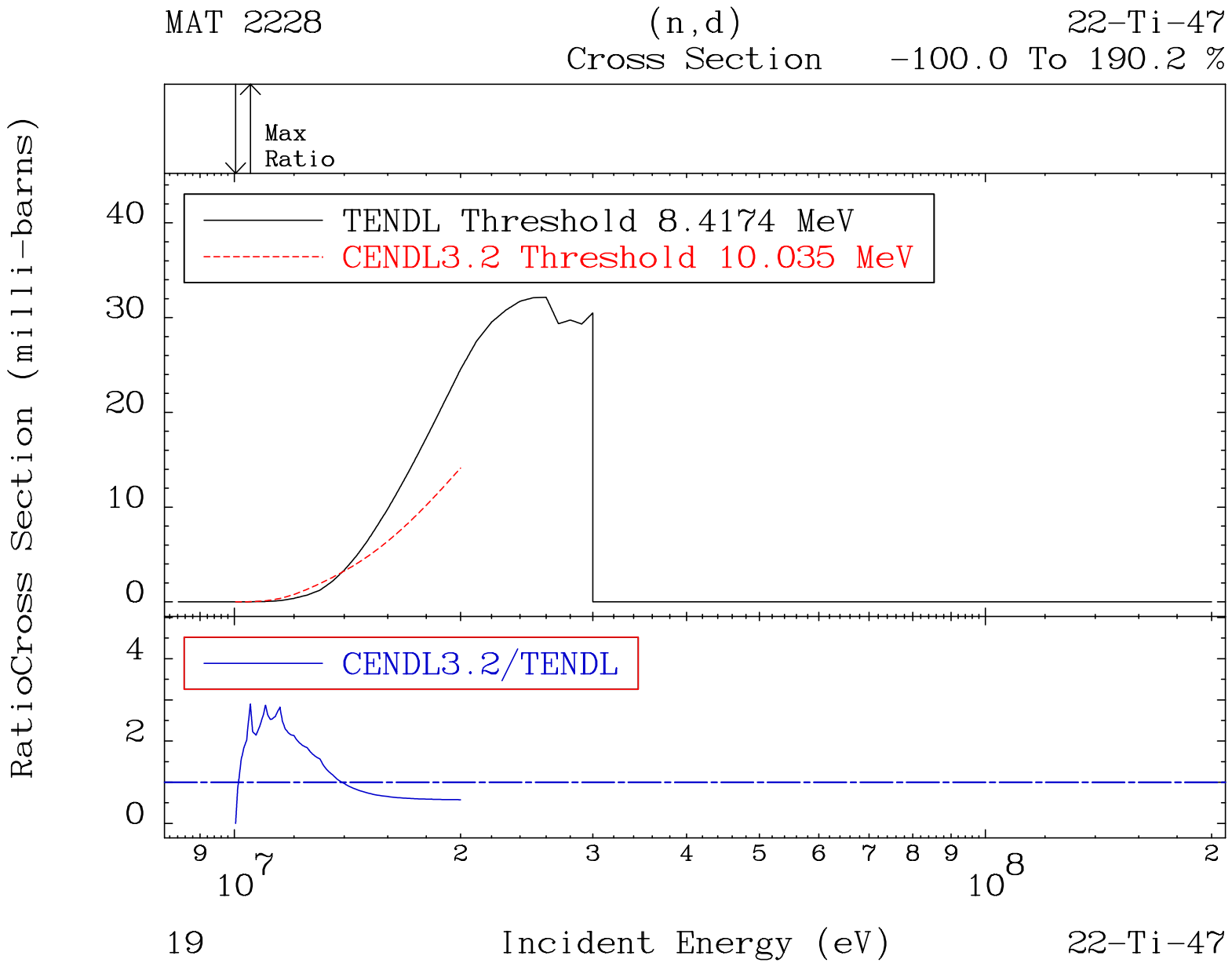

MAT 2228
MT= 58 (n,n') Level
22-Ti-47
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.8642 MeV
CENDL3.2 Threshold 1.8642 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
200
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
22-Ti-47

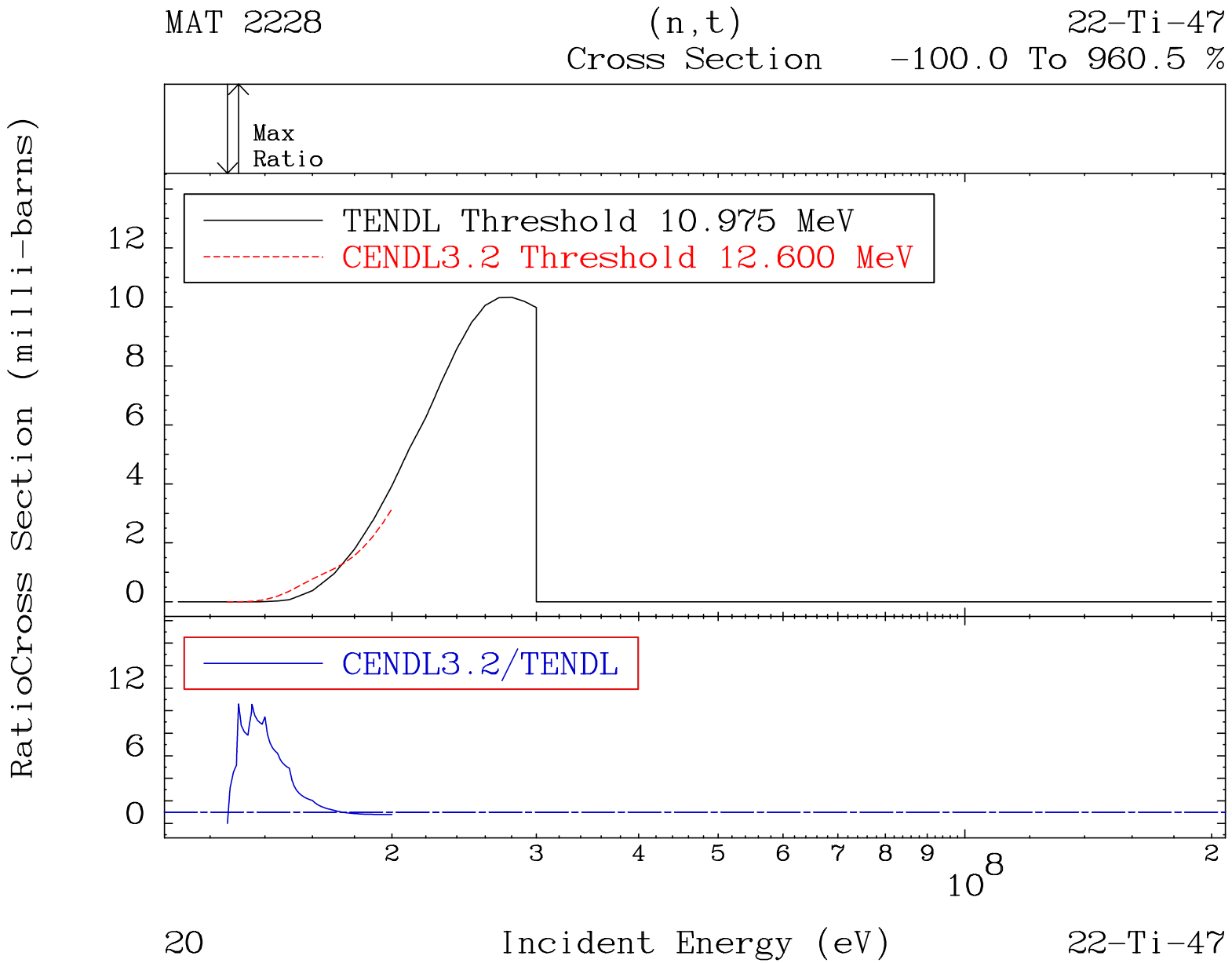

MAT 2228
MT= 59 (n,n') Level
22-Ti-47
Cross Section
-55.08 To 356.6 %
Max Ratio
Min Ratio
TENDL Threshold 2.2097 MeV
CENDL3.2 Threshold 2.2097 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
15
22-Ti-47

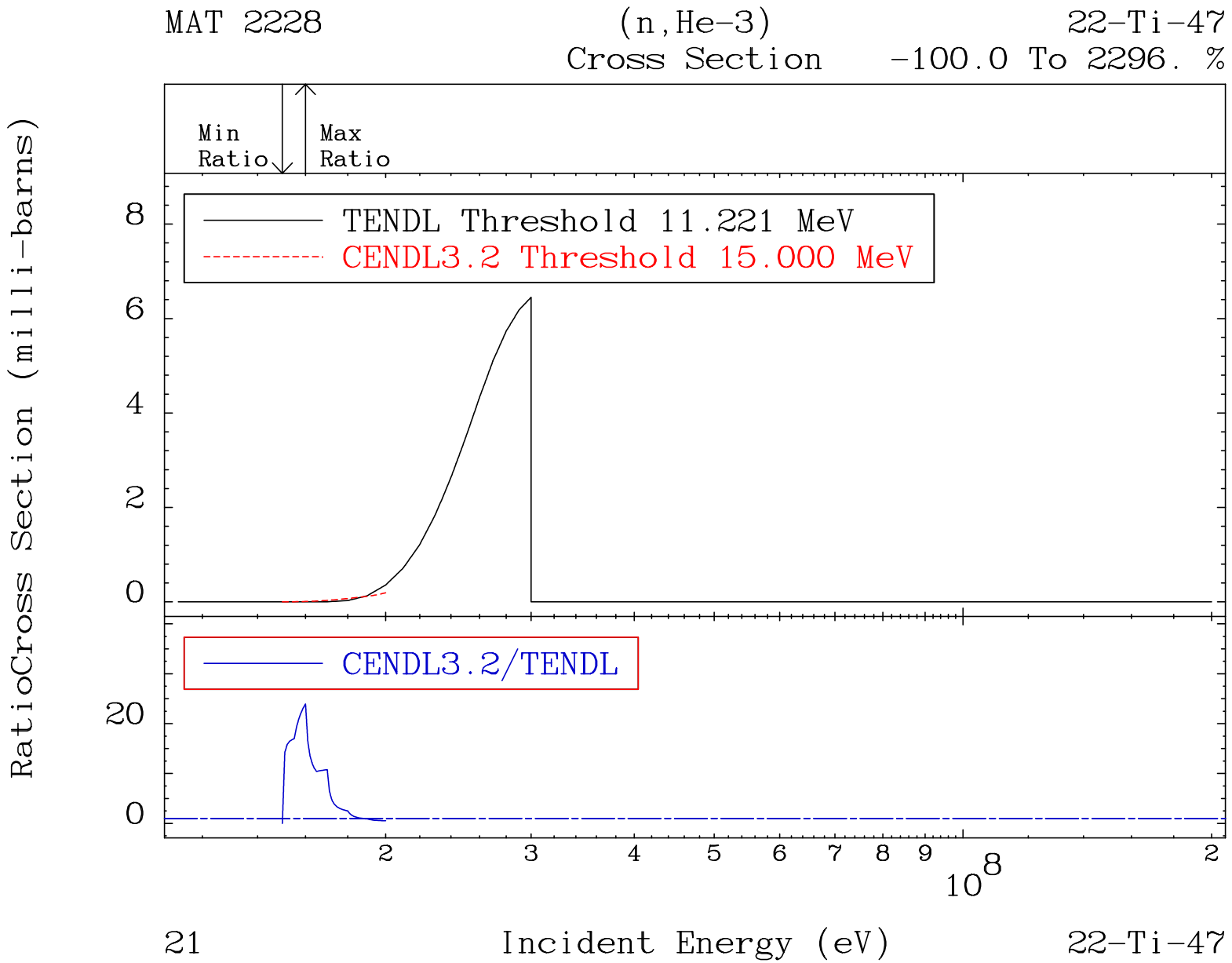

MAT 2228
(n,n') Continuum
Cross Section
22-Ti-47
-100.0 To 26.16 %
Max
Ratio
TENDL Threshold 2.4579 MeV
CENDL3.2 Threshold 2.5169 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
16
22-Ti-47

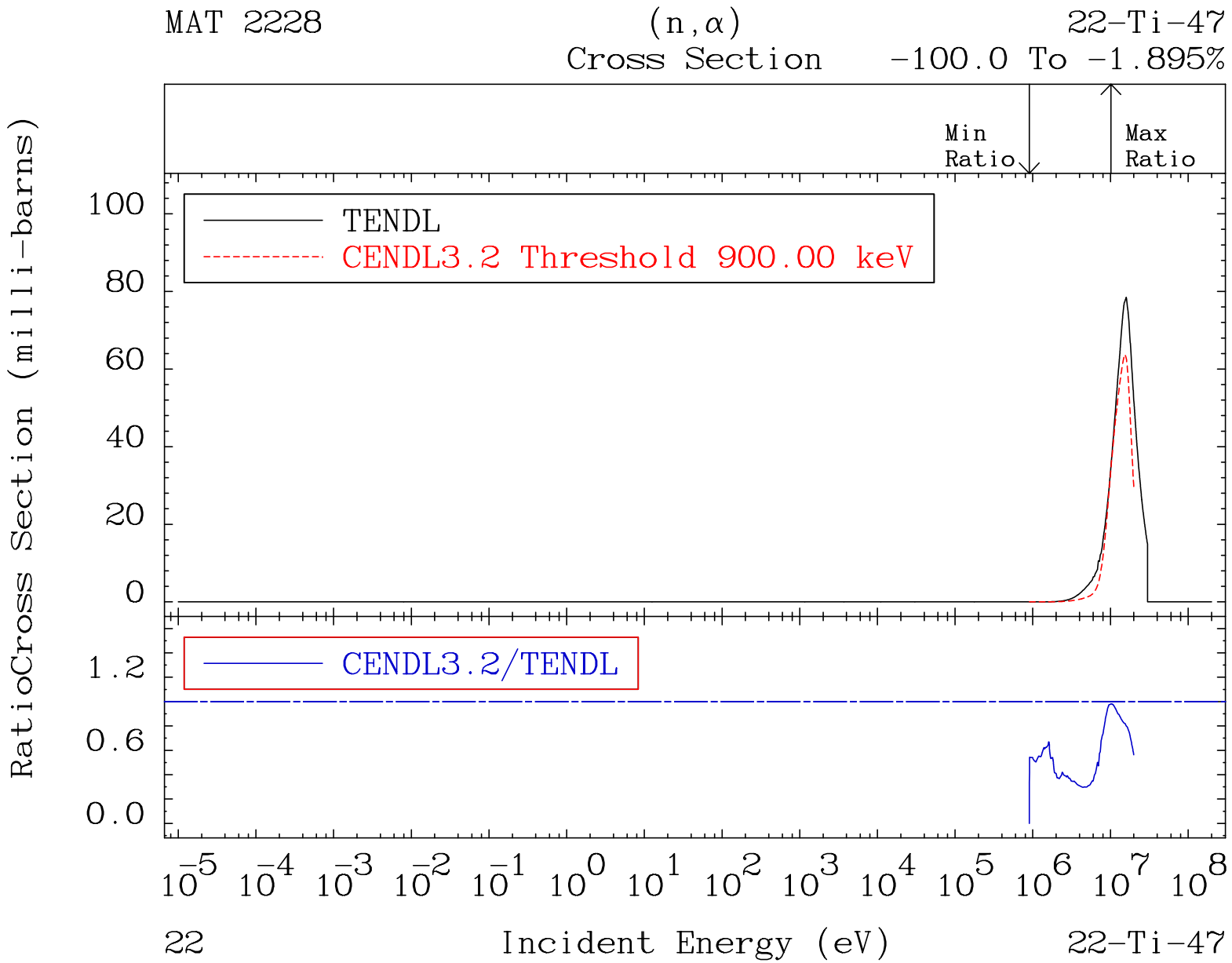

MAT 2228
(n,γ)
Cross Section
22-Ti-47
-99.98 To 1613. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
17
22-Ti-47

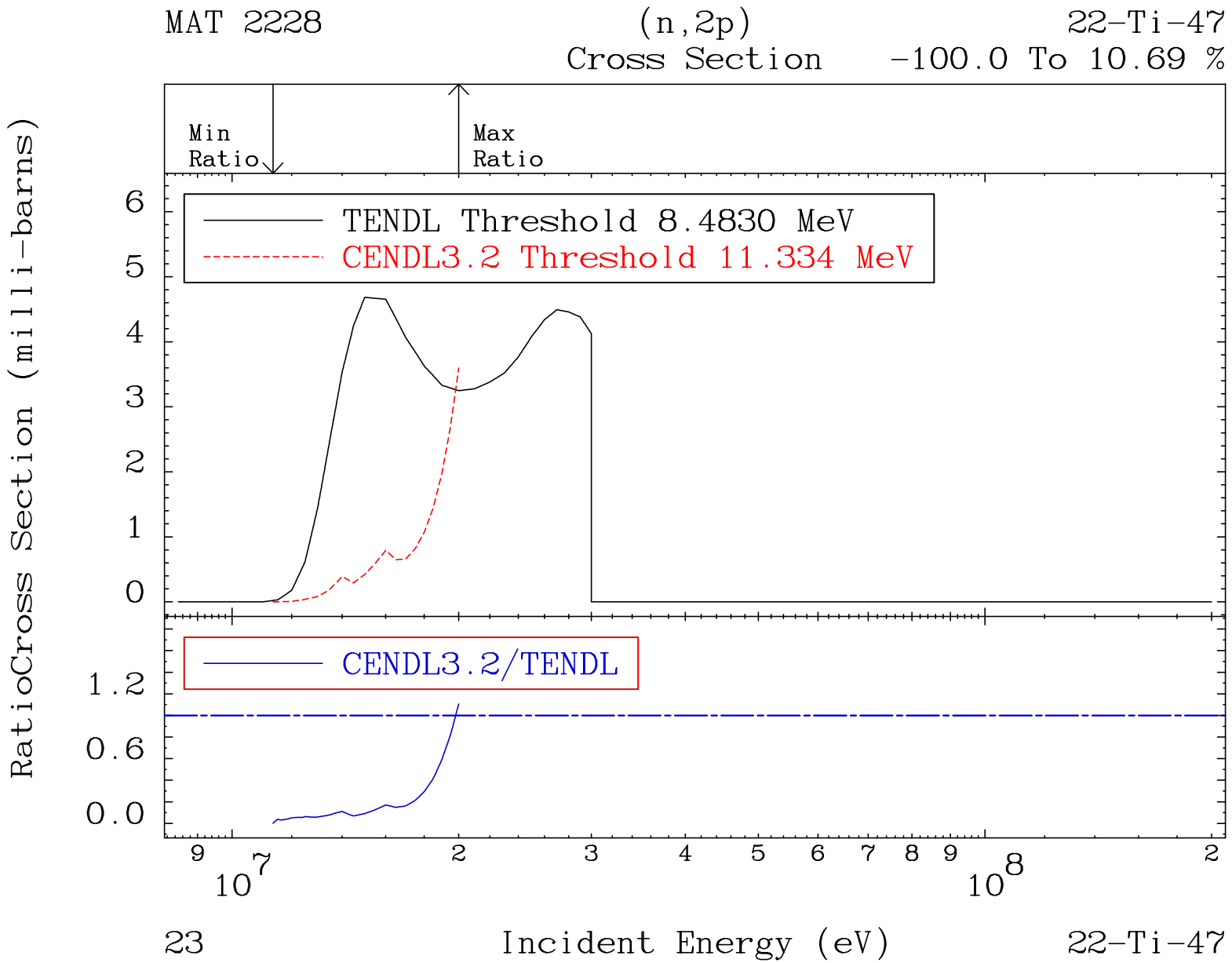

MAT 2228
(n,p)
Cross Section
22-Ti-47
-100.0 To 93.67 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 1.1000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
150
100
50
0
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
18
Incident Energy (eV)
22-Ti-47

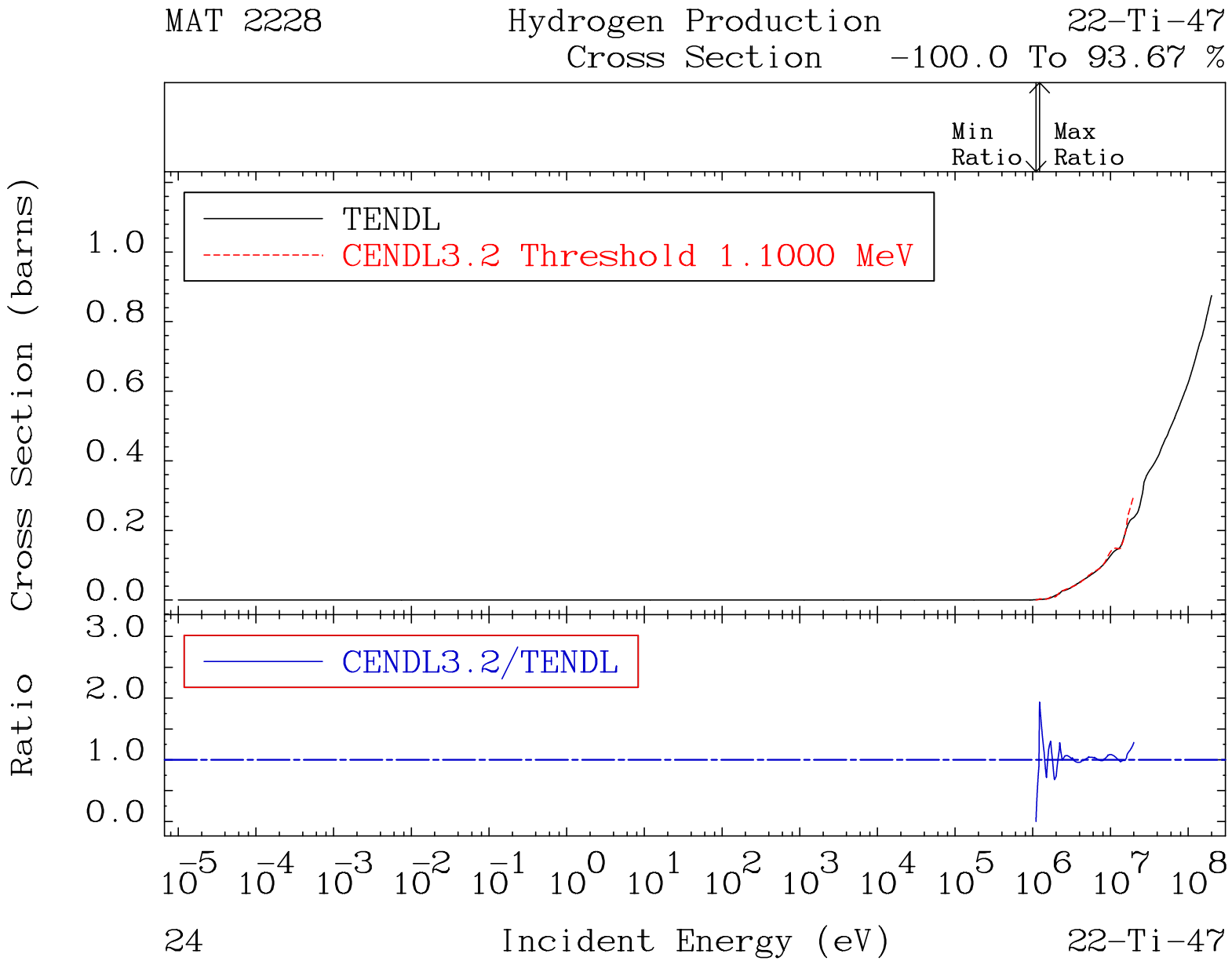

MAT 2228
(n,d)
22-Ti-47
Cross Section
-100.0 To 190.2 %
Max
Ratio
TENDL Threshold 8.4174 MeV
CENDL3.2 Threshold 10.035 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
22-Ti-47

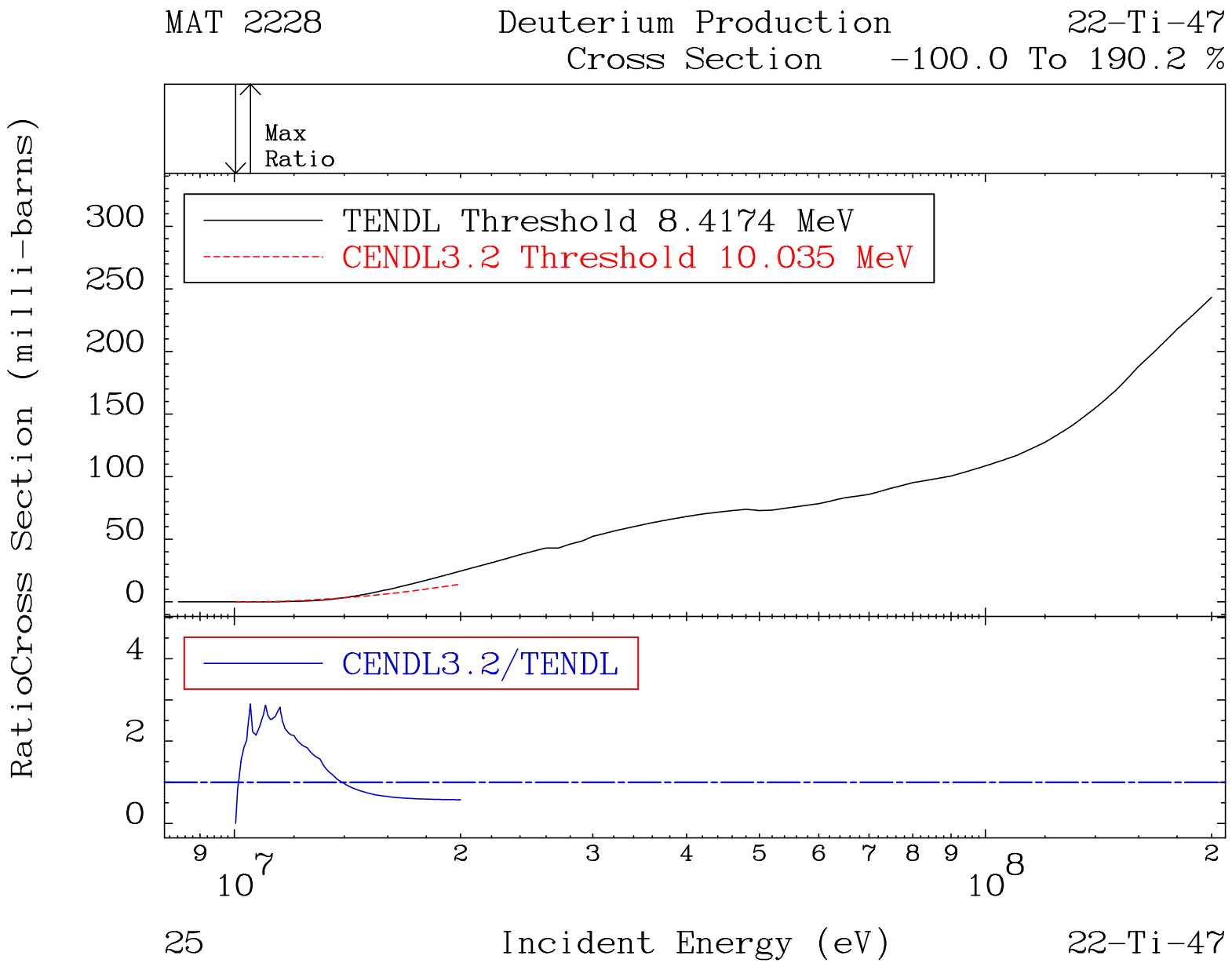

MAT 2228
(n,t)
Cross Section
22-Ti-47
-100.0 To 960.5 %
Max
Ratio
TENDL Threshold 10.975 MeV
CENDL3.2 Threshold 12.600 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
10
12
0
6
12
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
22-Ti-47

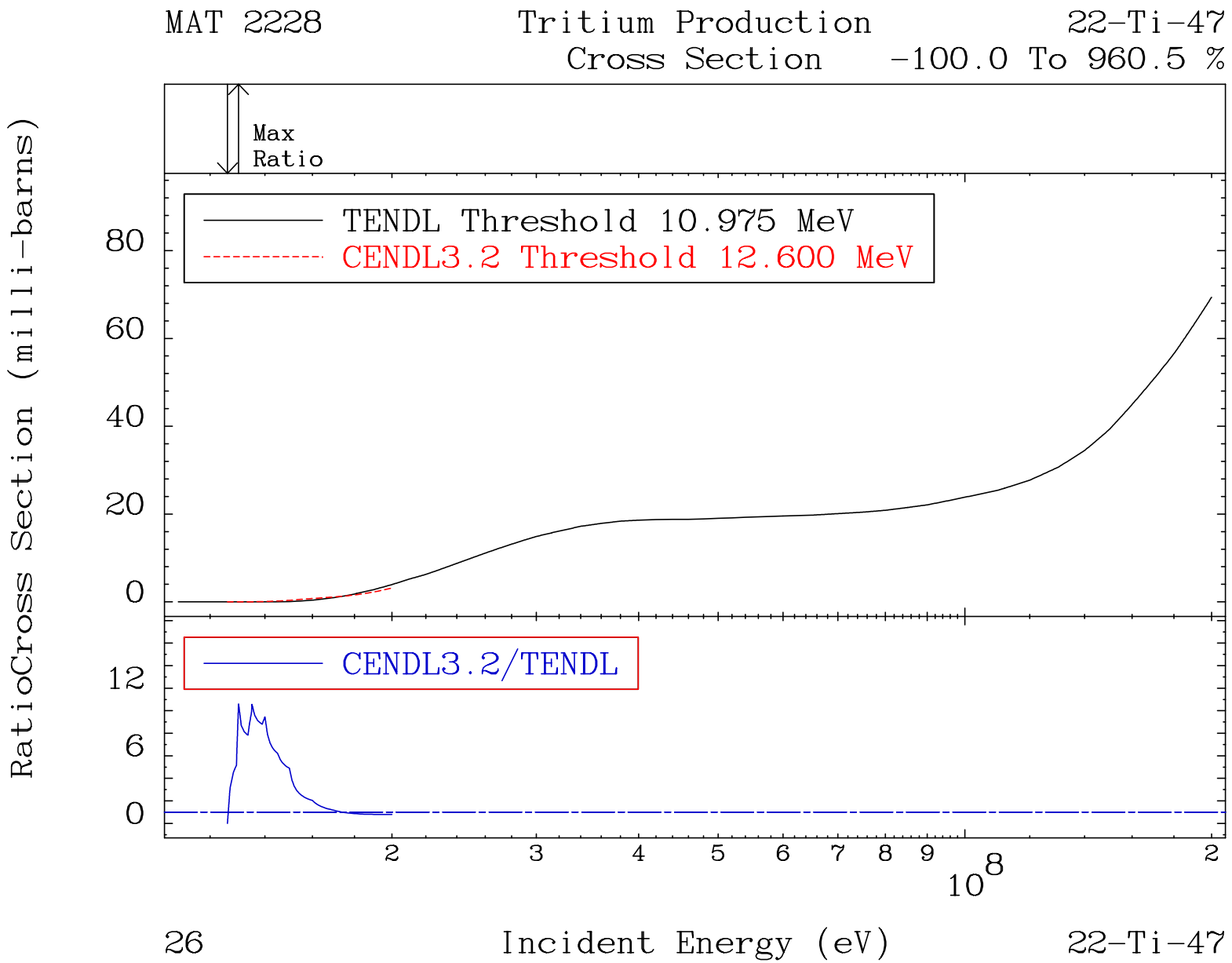

MAT 2228
(n,He-3)
Cross Section
22-Ti-47
-100.0 To 2296. %
Min Ratio
Max Ratio
TENDL Threshold 11.221 MeV
CENDL3.2 Threshold 15.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
22-Ti-47

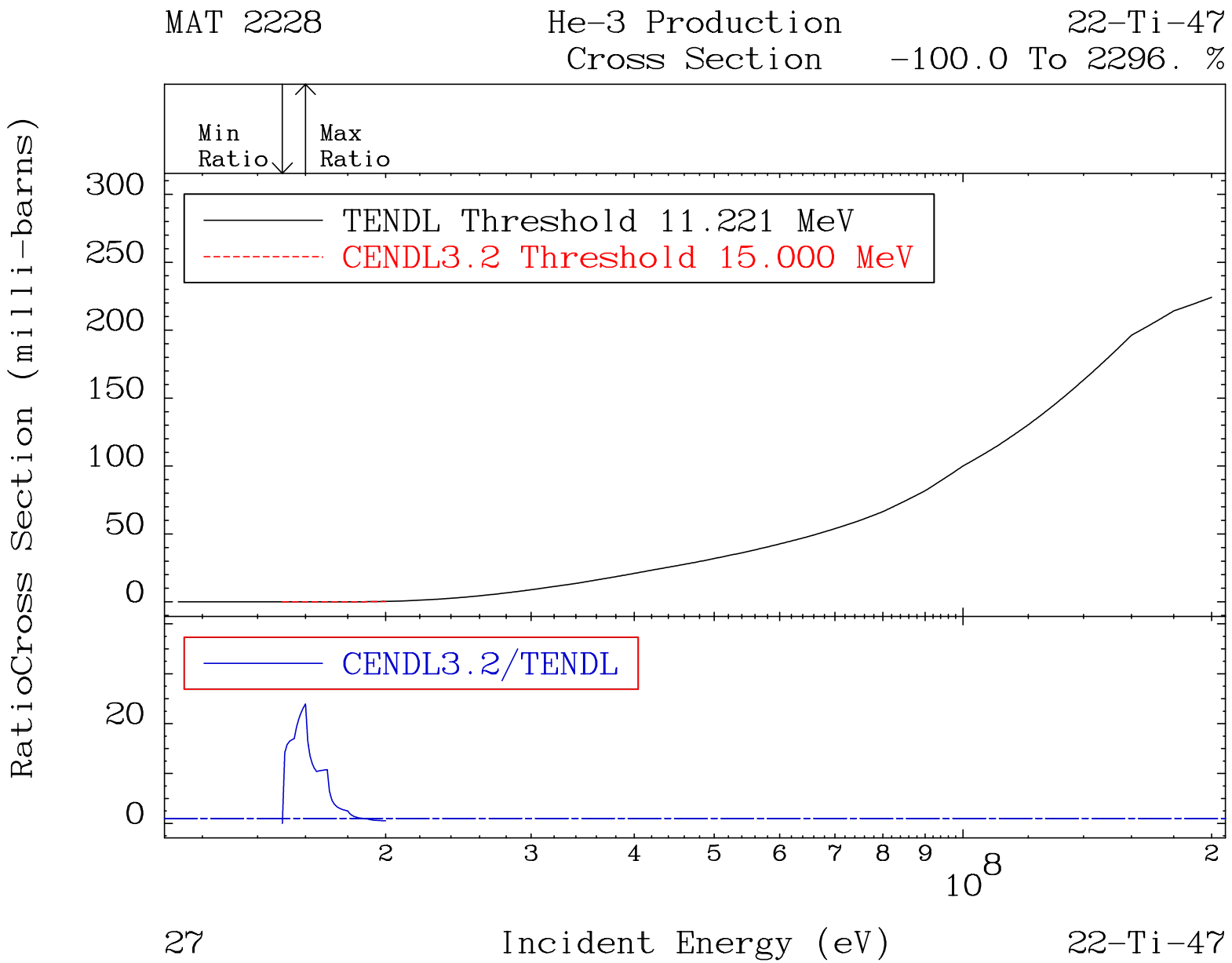

MAT 2228
(n,α)
Cross Section
22-Ti-47
-100.0 To -1.895%
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 900.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
22
Incident Energy (eV)
22-Ti-47

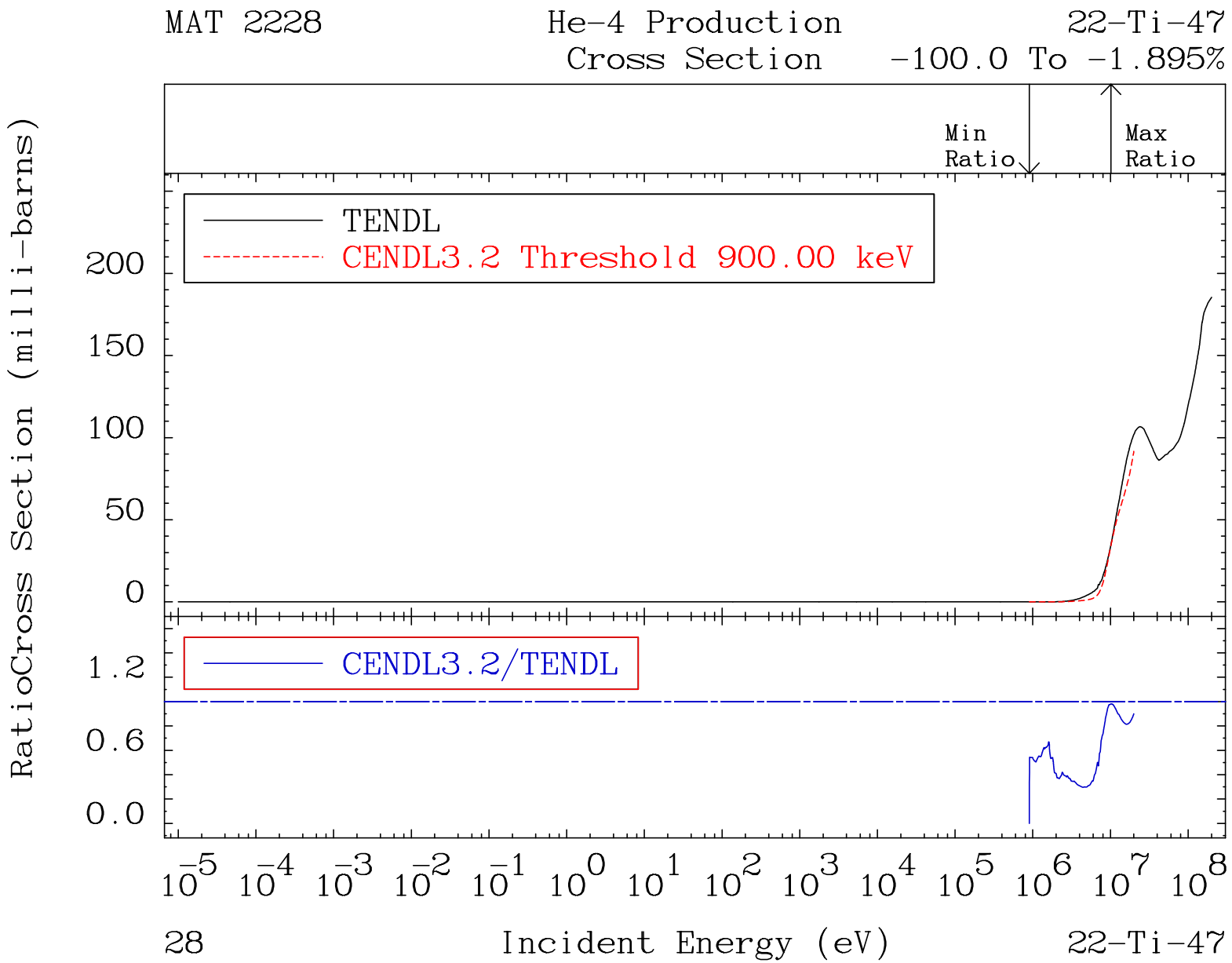

MAT 2228
(n,2p)
22-Ti-47
Cross Section
-100.0 To 10.69 %
Min Ratio
Max Ratio
TENDL Threshold 8.4830 MeV
CENDL3.2 Threshold 11.334 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
23
22-Ti-47

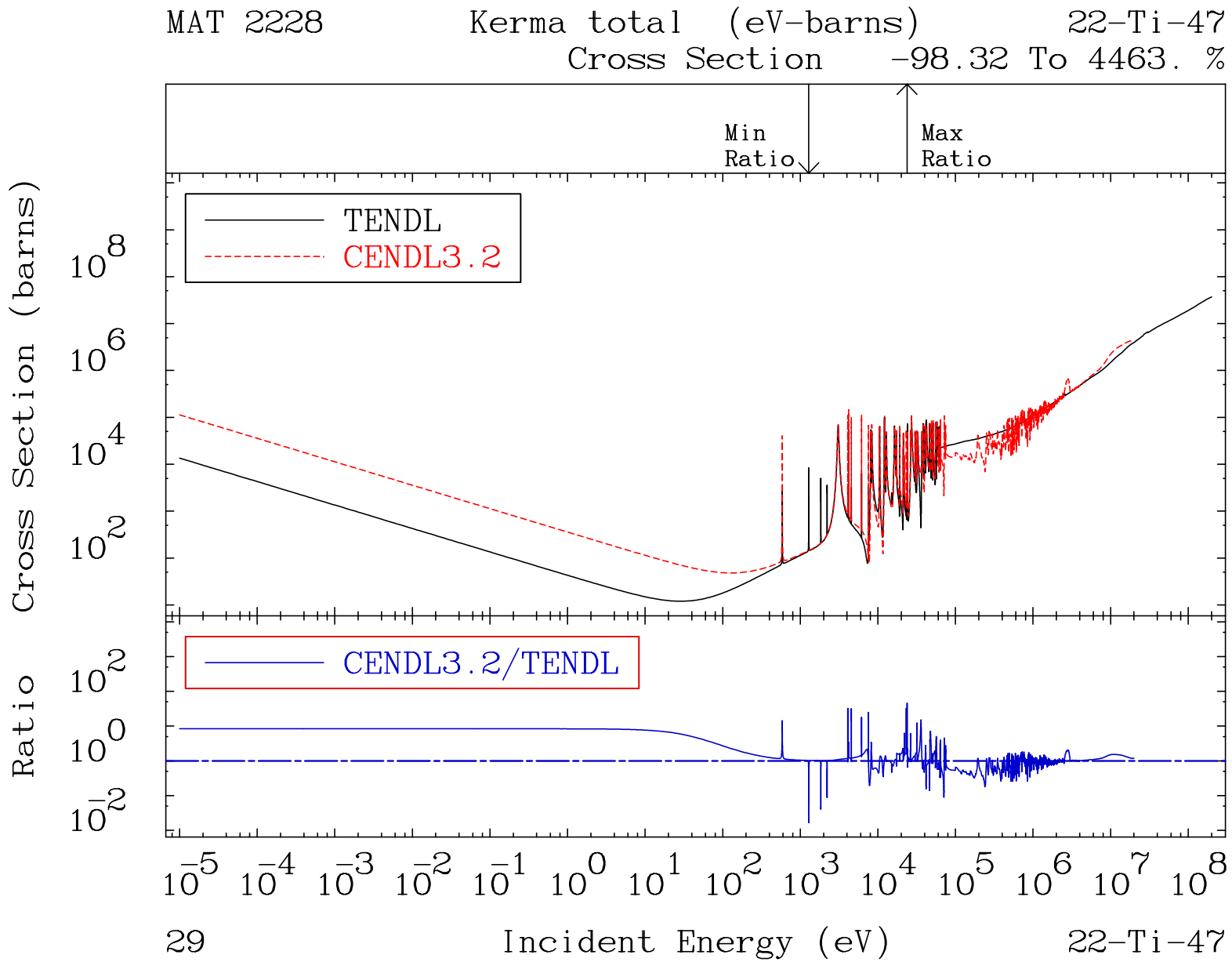

MAT 2228
Hydrogen Production
22-Ti-47
Cross Section
-100.0 To 93.67 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 1.1000 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
24
Incident Energy (eV)
22-Ti-47

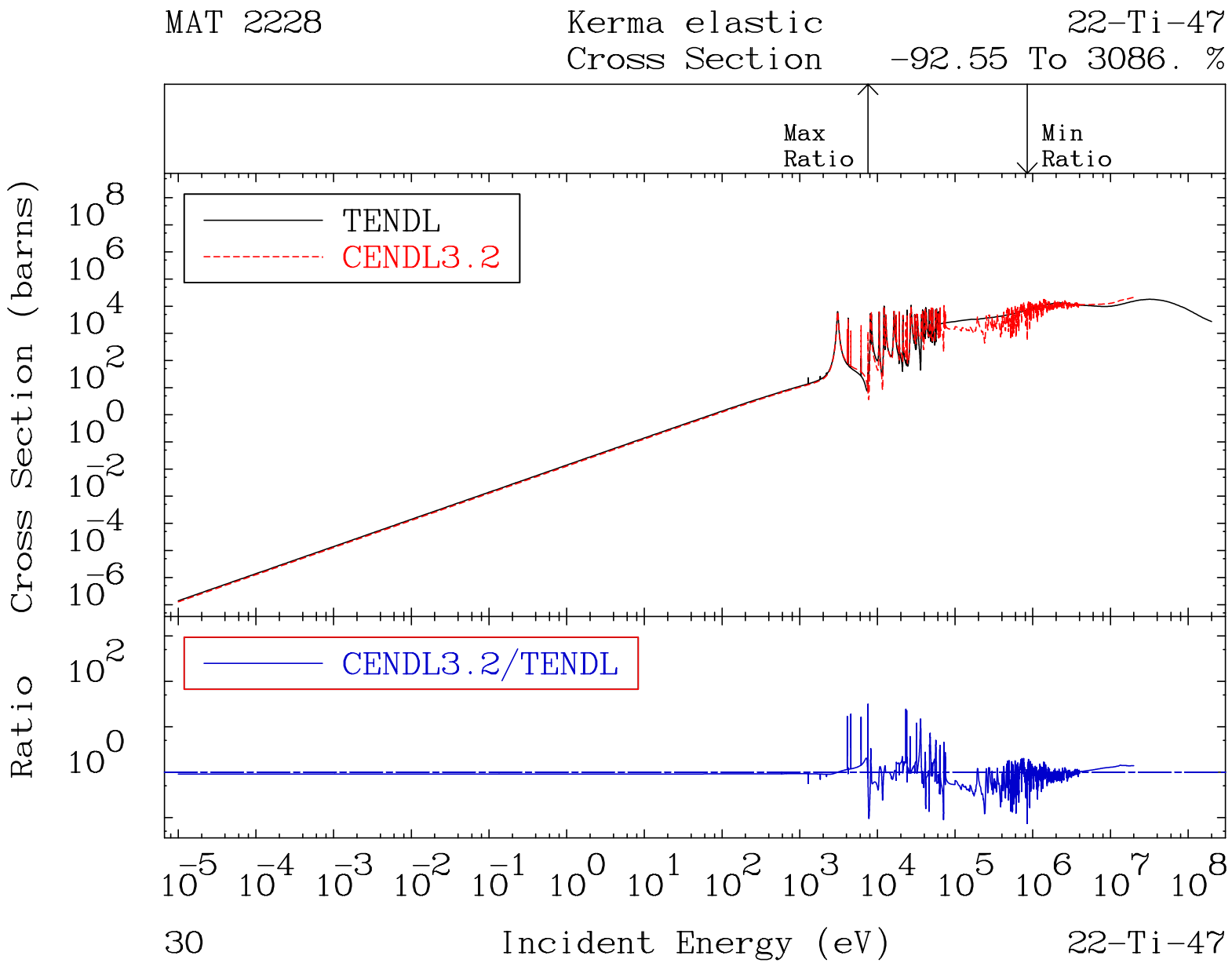

MAT 2228
Deuterium Production
22-Ti-47
Cross Section
-100.0 To 190.2 %
Max
Ratio
TENDL Threshold 8.4174 MeV
CENDL3.2 Threshold 10.035 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
22-Ti-47

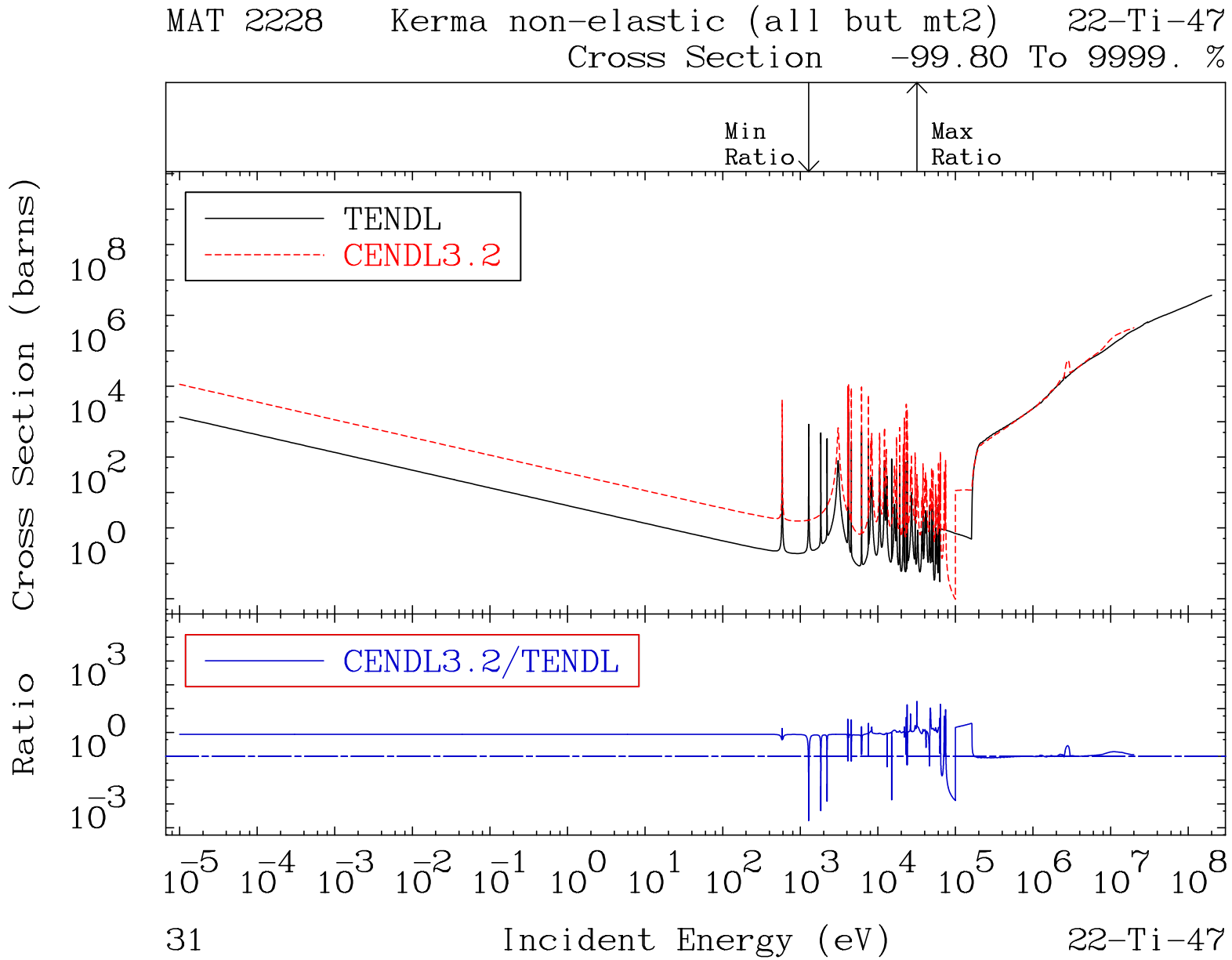

MAT 2228
Tritium Production
22-Ti-47
Cross Section
-100.0 To 960.5 %
Max
Ratio
TENDL Threshold 10.975 MeV
CENDL3.2 Threshold 12.600 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
12
6
0
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
22-Ti-47

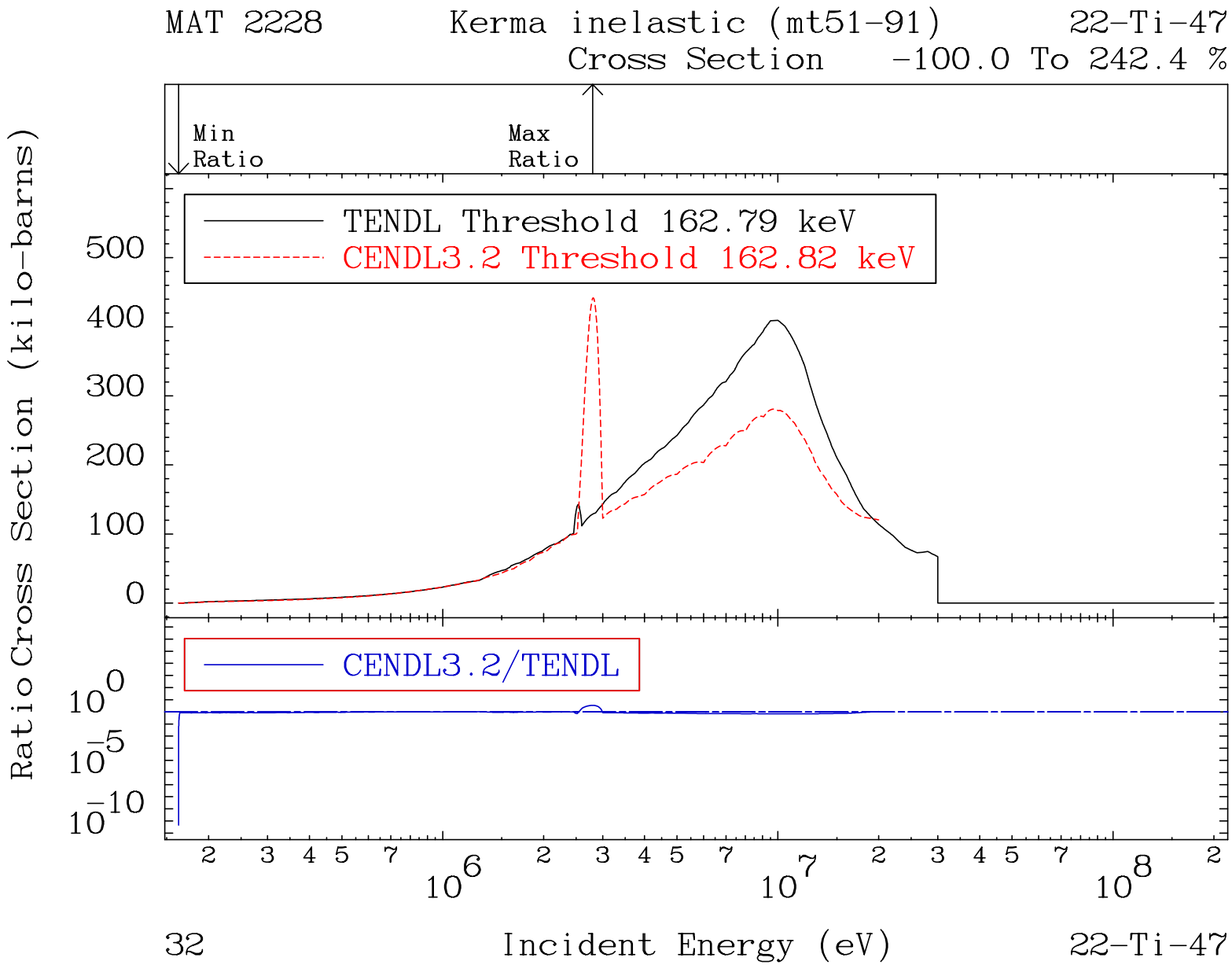

MAT 2228
He-3 Production
Cross Section
22-Ti-47
-100.0 To 2296. %
Min Ratio
Max Ratio
TENDL Threshold 11.221 MeV
CENDL3.2 Threshold 15.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
20
0
2
3
4
5
6
7
8
9
2
10^8
27
Incident Energy (eV)
22-Ti-47

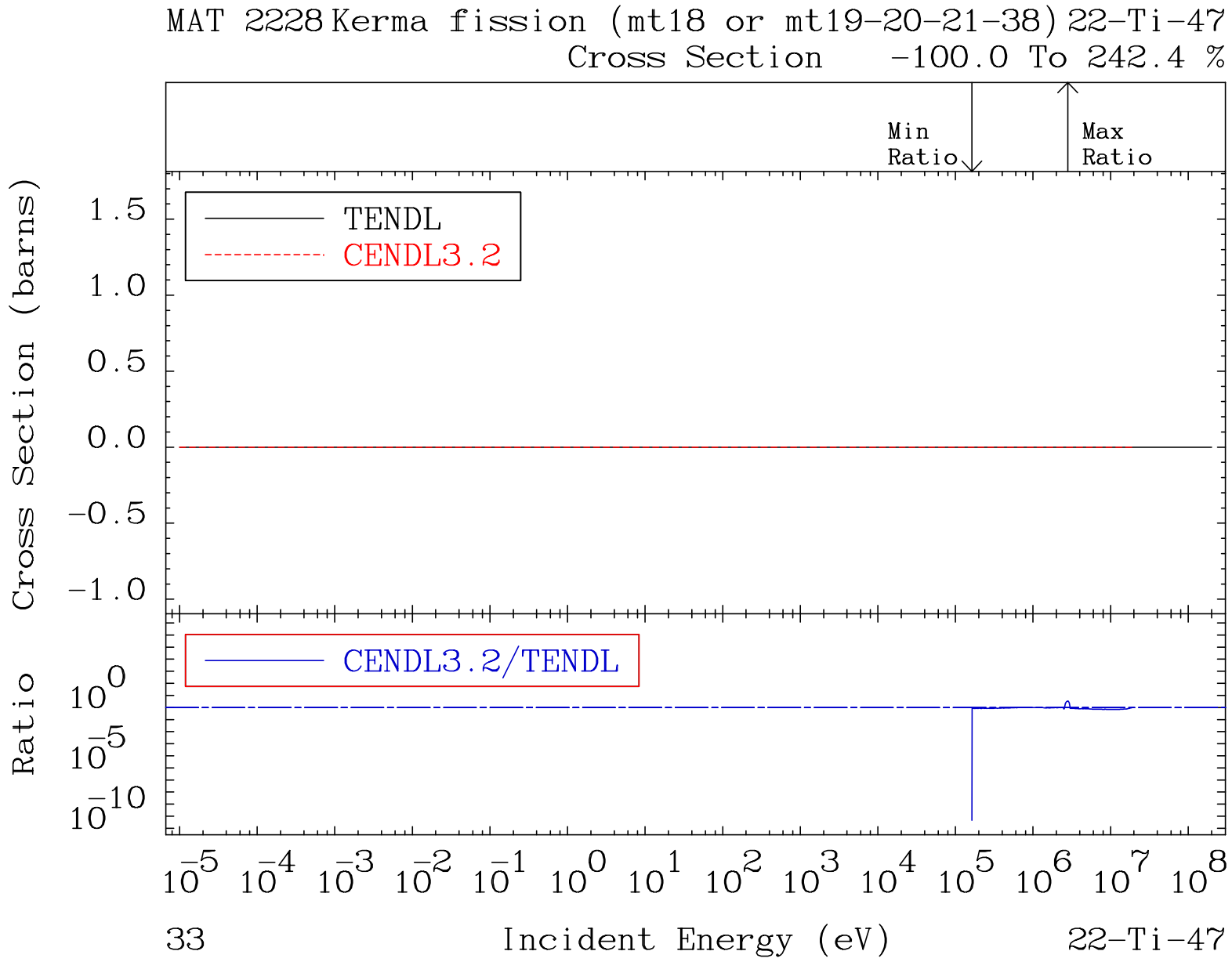

MAT 2228
He-4 Production
Cross Section
22-Ti-47
-100.0 To -1.895%
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 900.00 keV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
28
Incident Energy (eV)
22-Ti-47

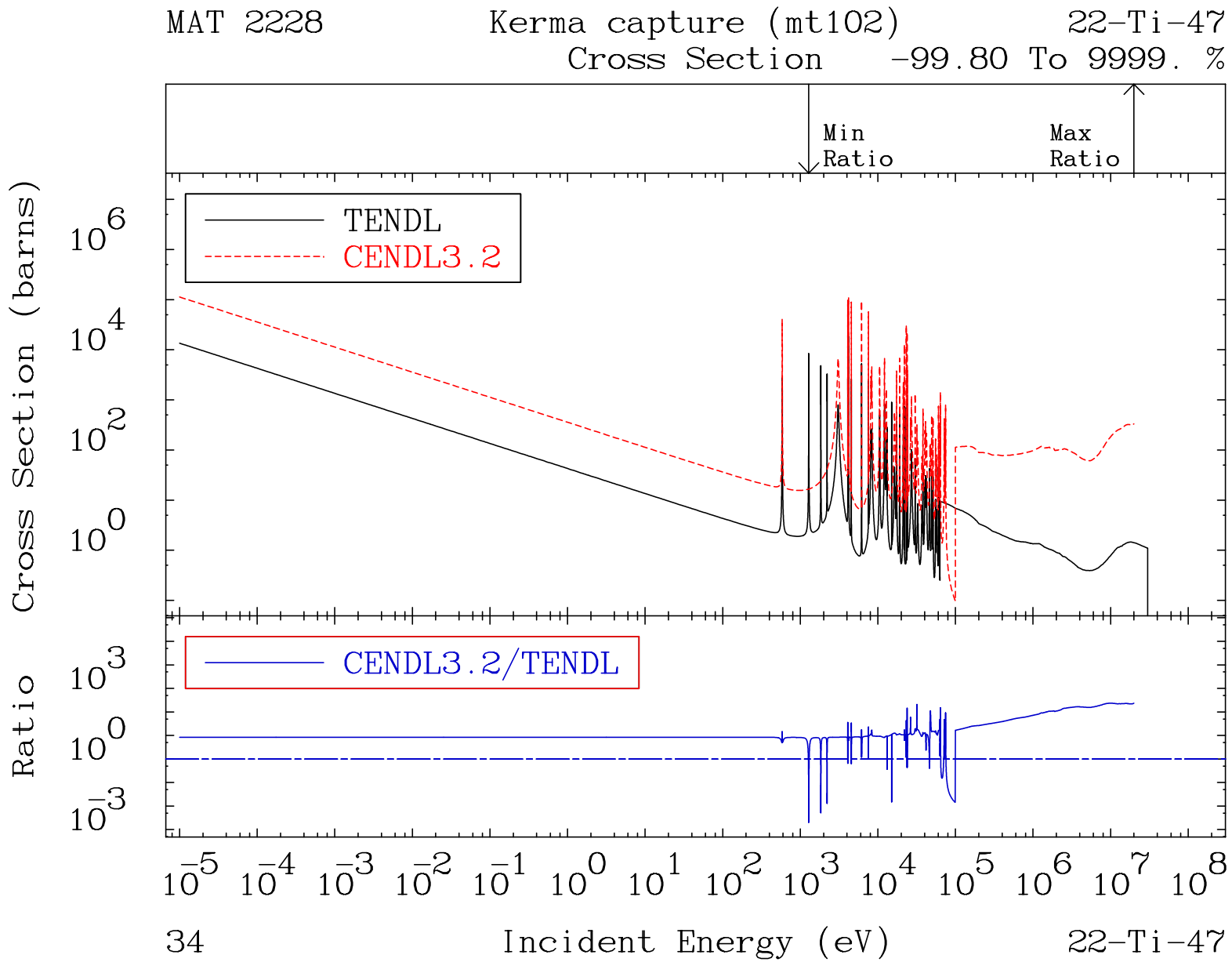

MAT 2228
Kerma total (eV-barns)
22-Ti-47
Cross Section -98.32 To 4463. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
29
22-Ti-47

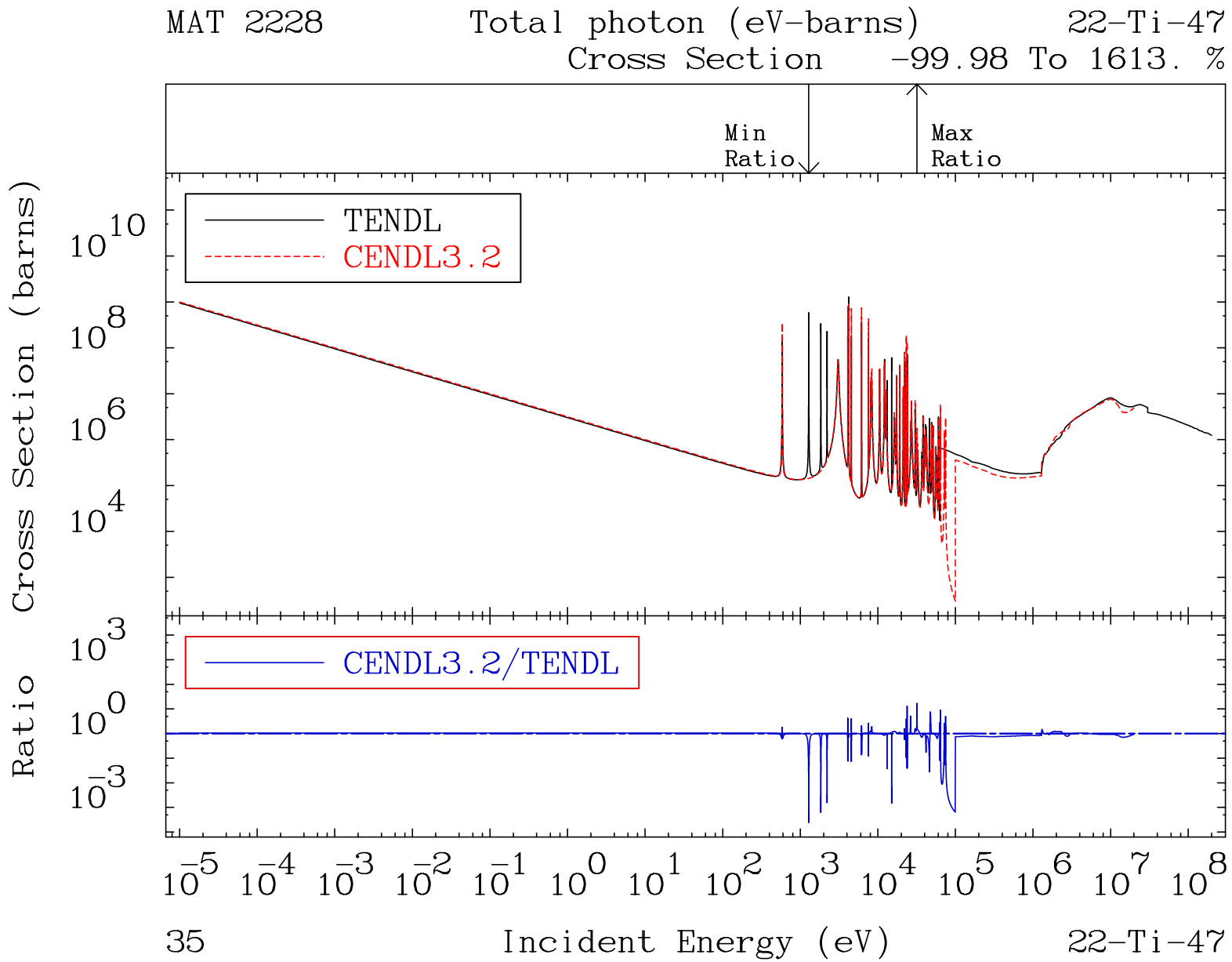

MAT 2228
Kerma elastic
Cross Section
22-Ti-47
-92.55 To 3086. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
30
22-Ti-47

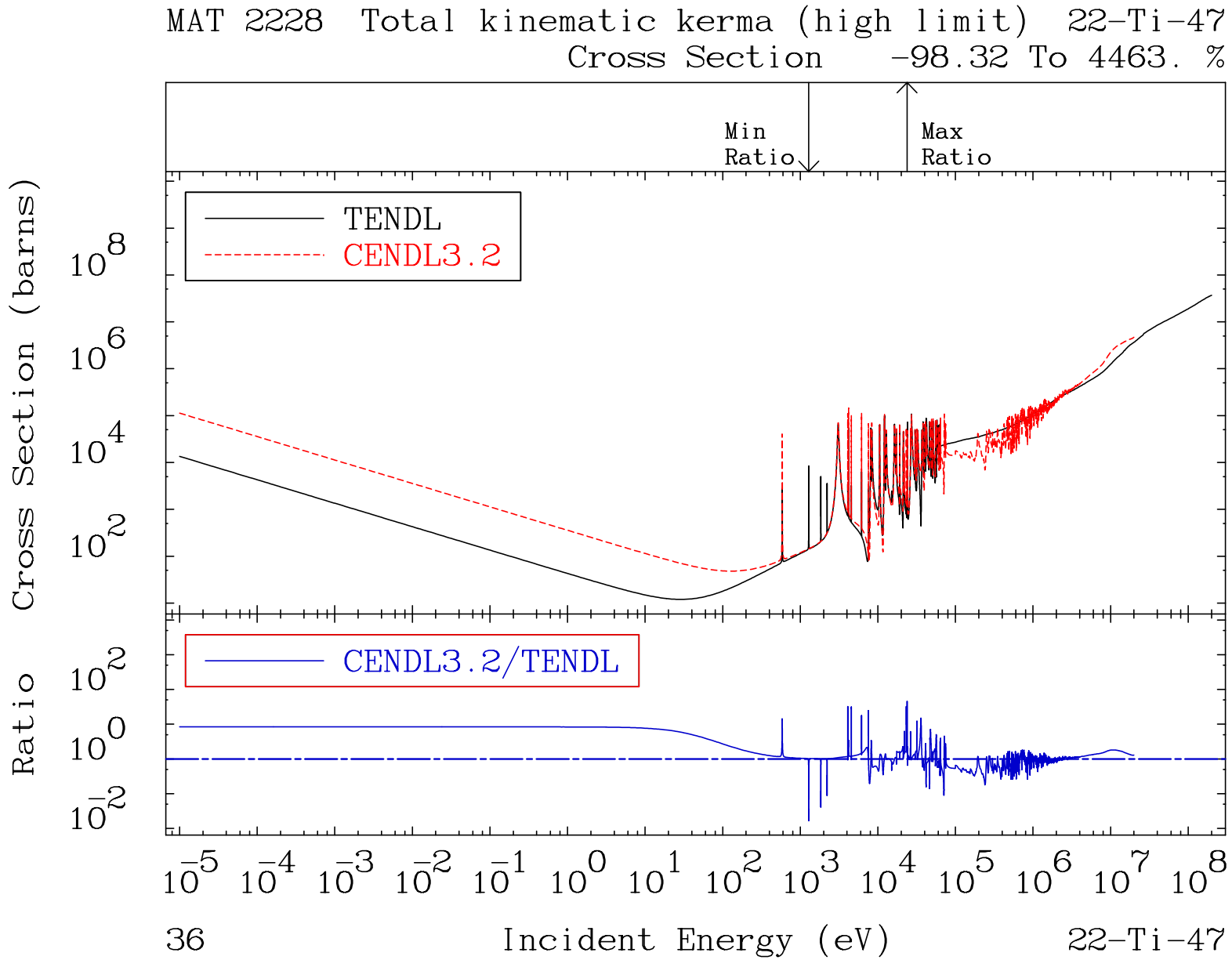

MAT 2228 Kerma non-elastic (all but mt2) 22-Ti-47
Cross Section -99.80 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
22-Ti-47

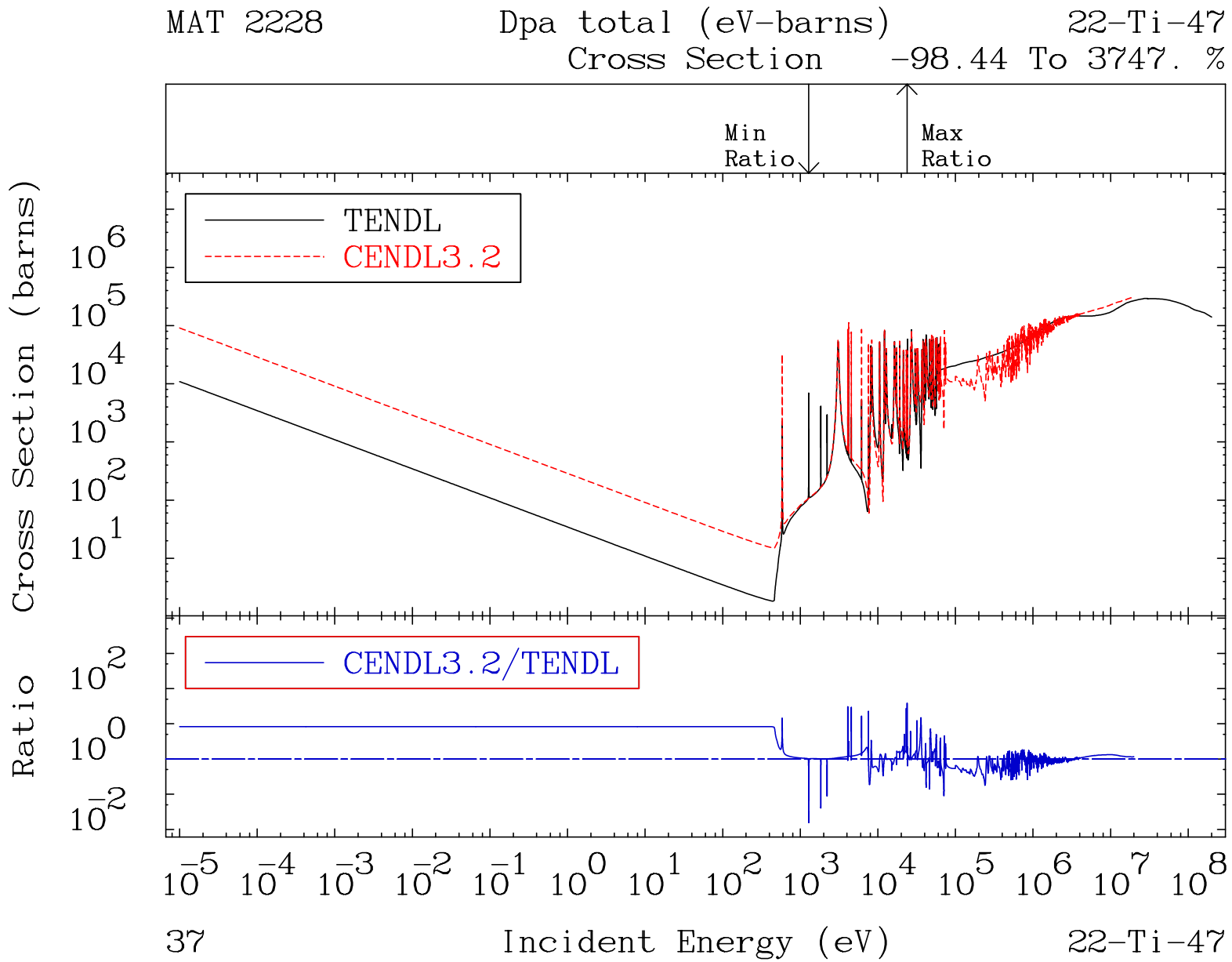

MAT 2228
Kerma inelastic (mt51-91)
22-Ti-47
Cross Section -100.0 To 242.4 %
Min Ratio
Max Ratio
TENDL Threshold 162.79 keV
CENDL3.2 Threshold 162.82 keV
CENDL3.2/TENDL
Ratio Cross Section (kilo-barns)
Incident Energy (eV)
32
22-Ti-47

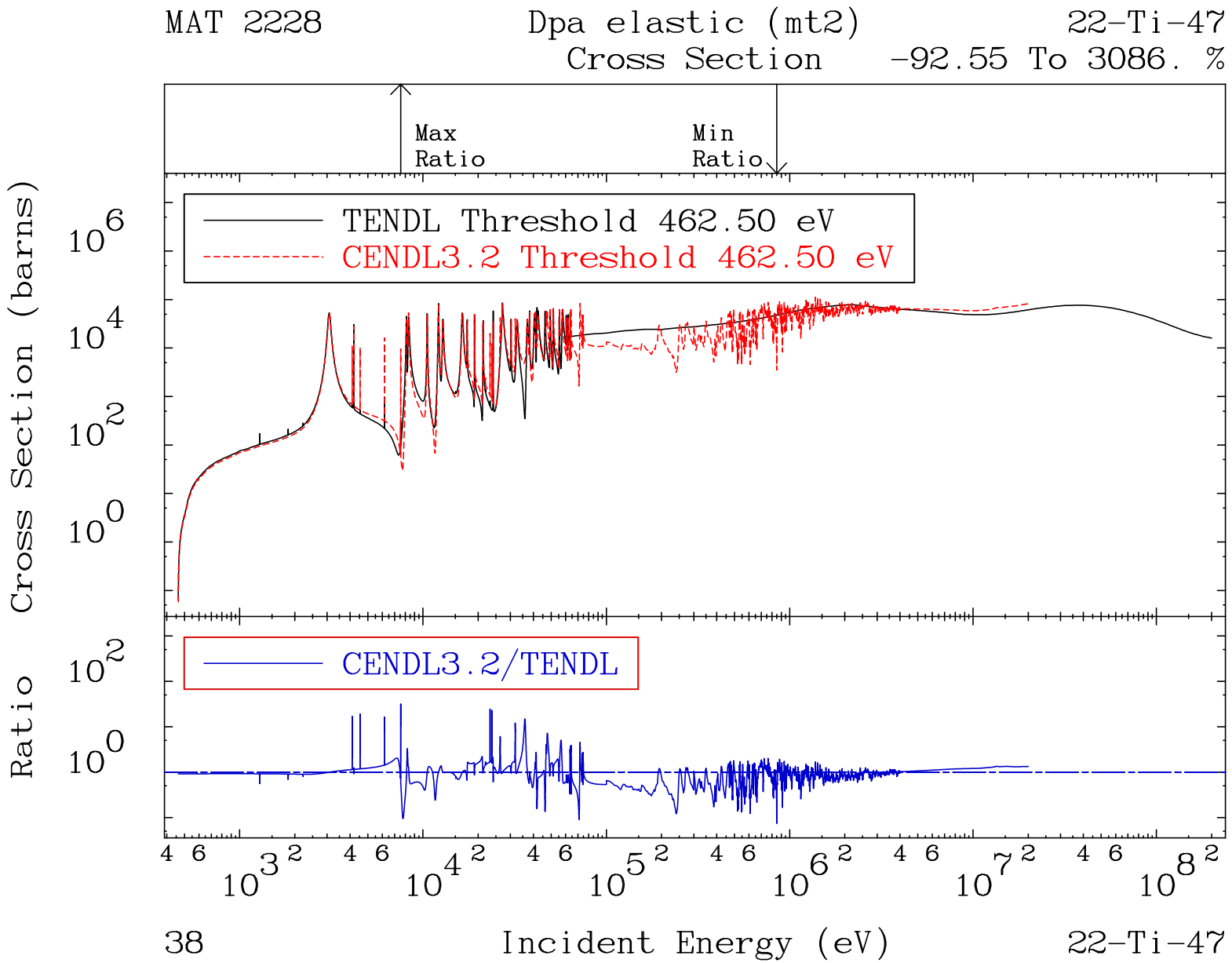

MAT 2228 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-47
Cross Section -100.0 To 242.4 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-5}
10^{-10}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
33
Incident Energy (eV)
22-Ti-47

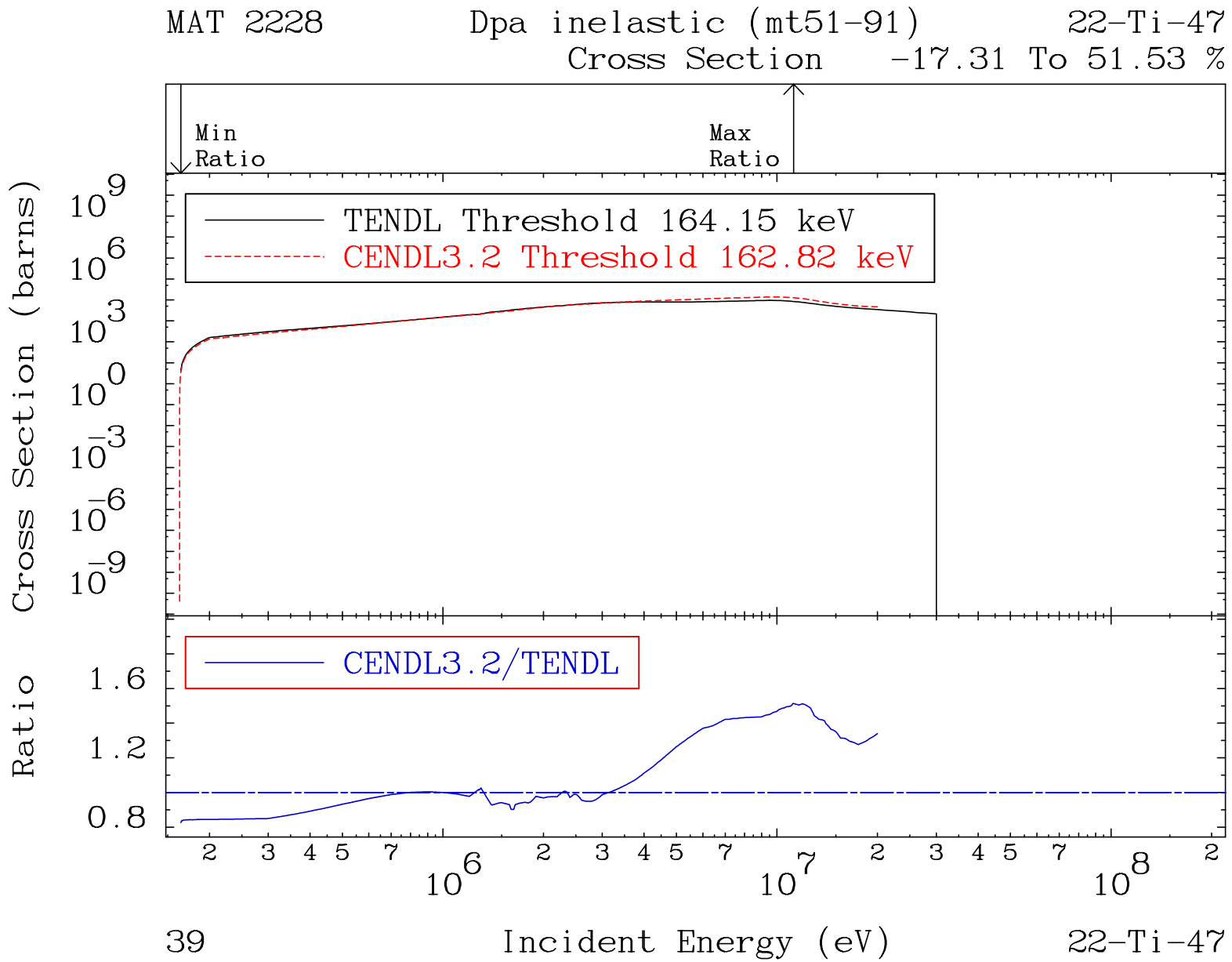

MAT 2228
Kerma capture (mt102)
22-Ti-47
Cross Section -99.80 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
22-Ti-47

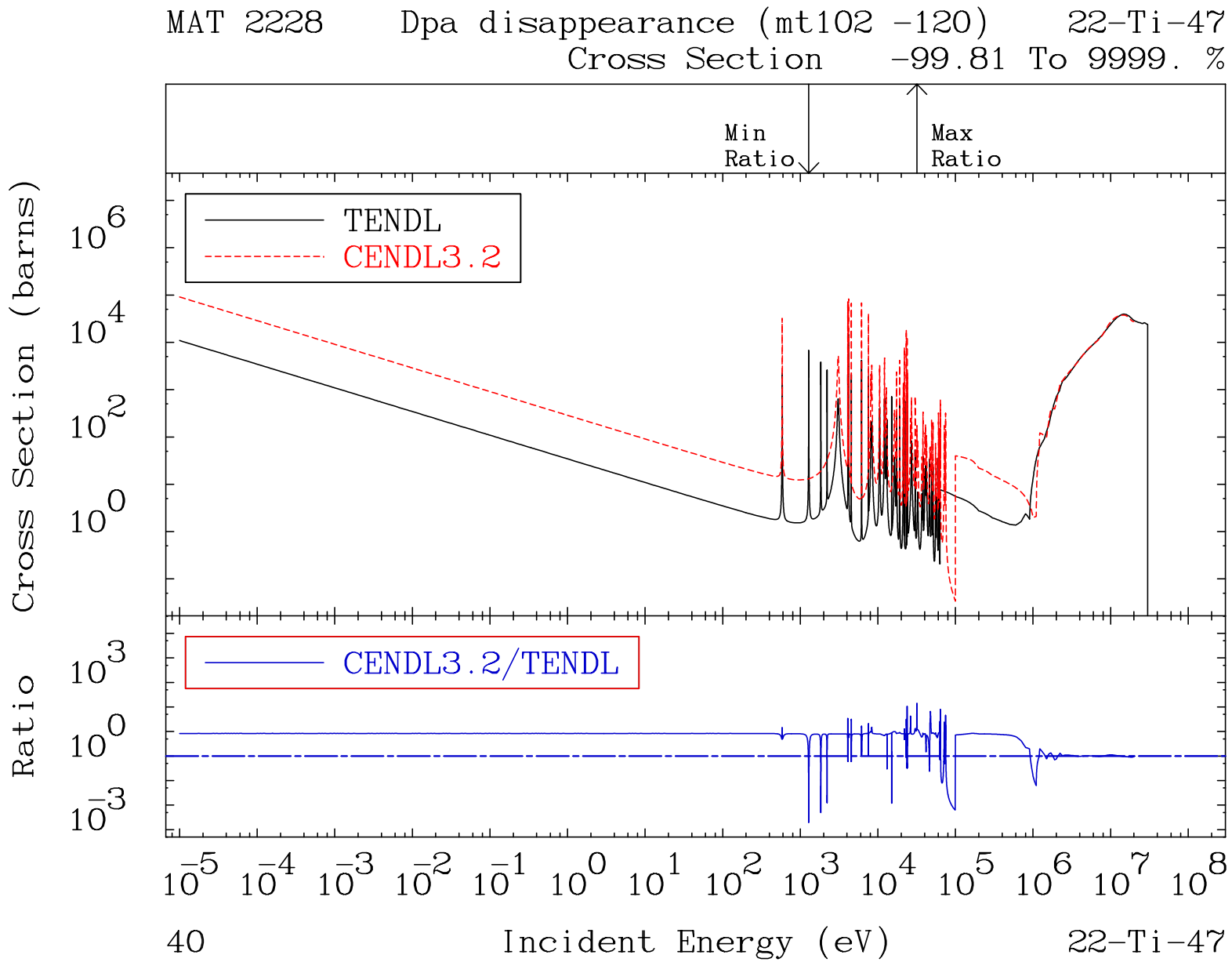

MAT 2228
Total photon (eV-barns)
22-Ti-47
Cross Section
-99.98 To 1613. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
22-Ti-47

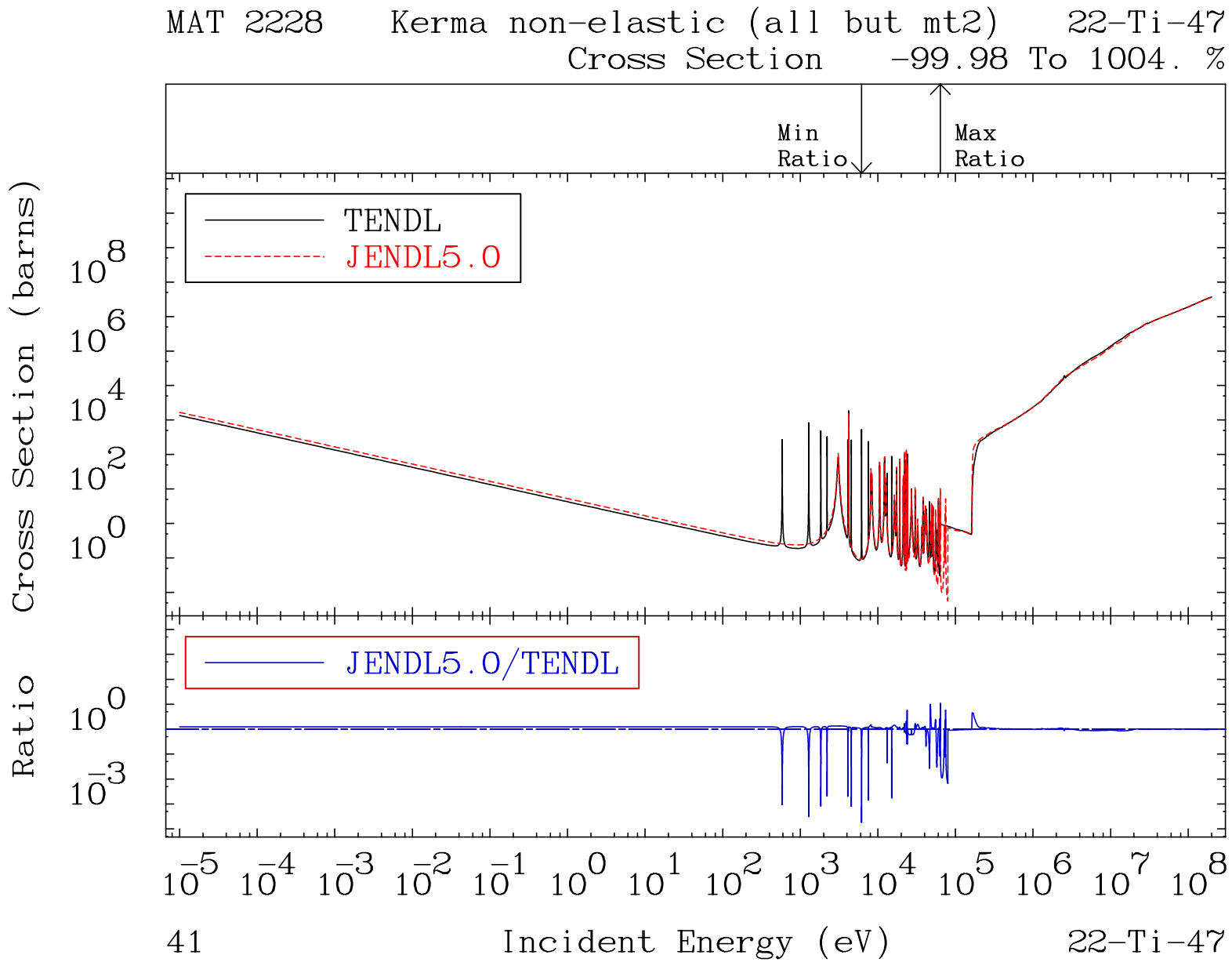

MAT 2228 Total kinematic kerma (high limit) 22-Ti-47
Cross Section -98.32 To 4463. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
36
22-Ti-47

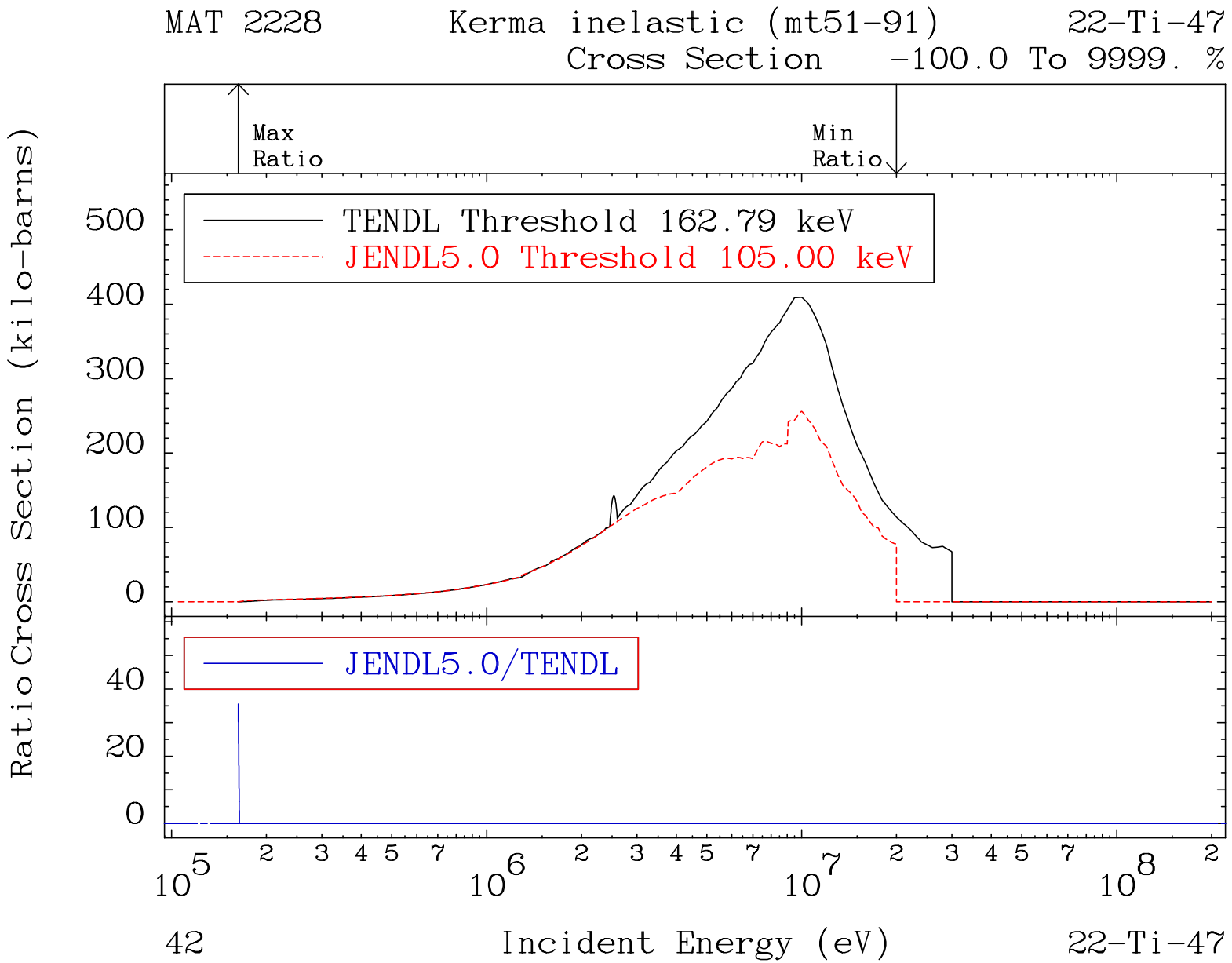

MAT 2228
Dpa total (eV-barns)
22-Ti-47
Cross Section
-98.44 To 3747. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
37
22-Ti-47

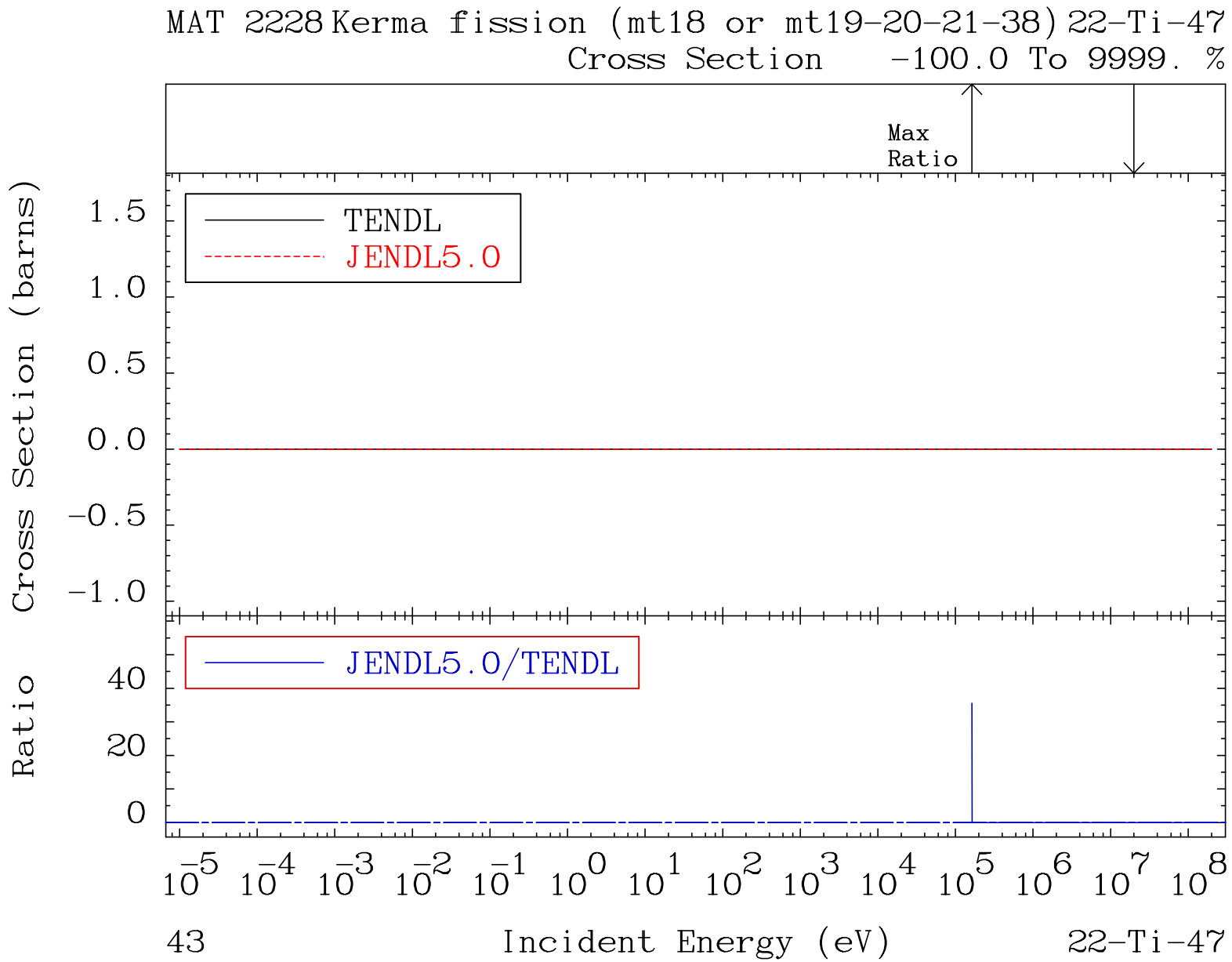

MAT 2228
Dpa elastic (mt2)
Cross Section
22-Ti-47
-92.55 To 3086. %
Max
Ratio
Min
Ratio
TENDL Threshold 462.50 eV
CENDL3.2 Threshold 462.50 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
22-Ti-47

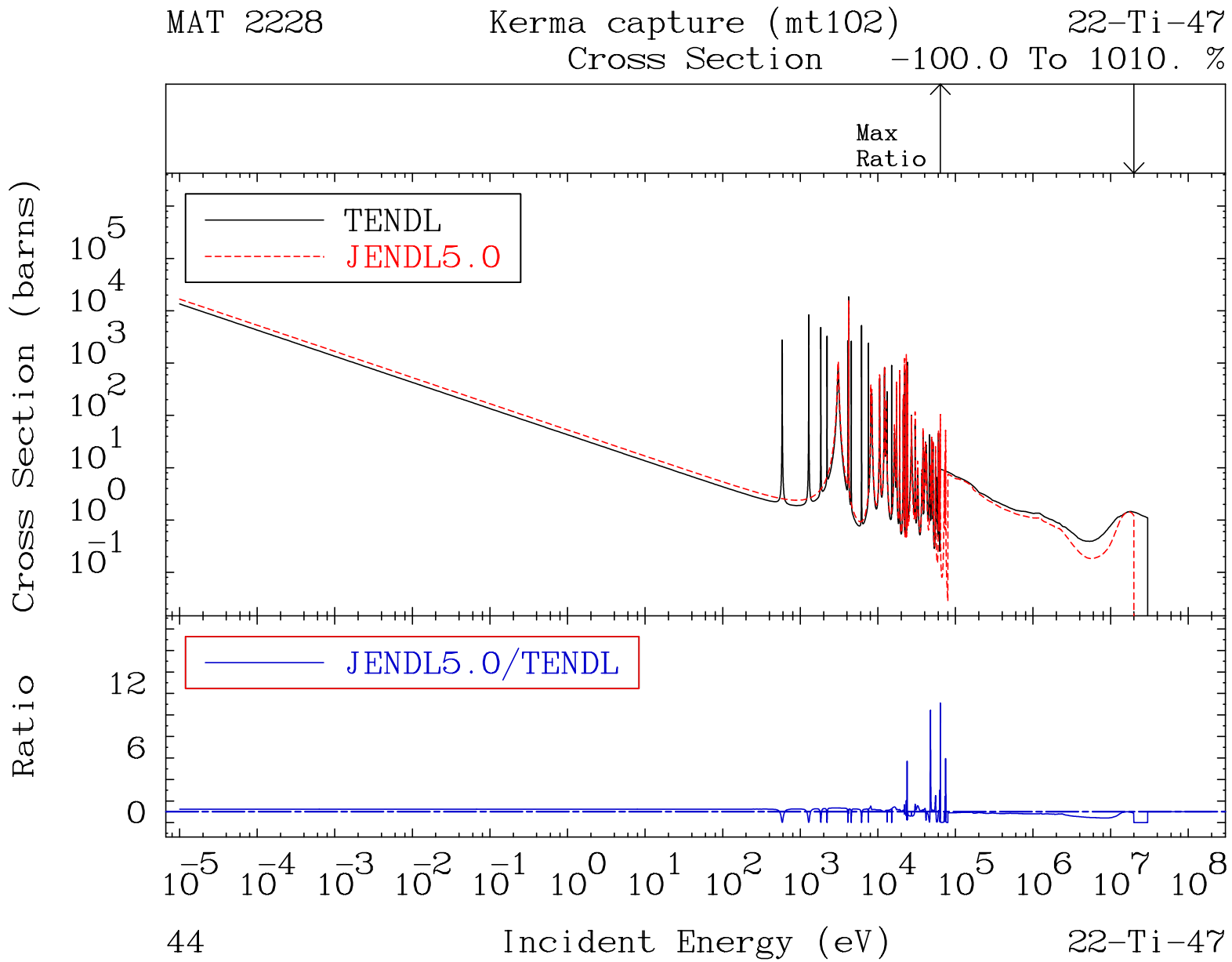

MAT 2228
Dpa inelastic (mt51-91)
22-Ti-47
Cross Section
-17.31 To 51.53 %
Min Ratio
Max Ratio
TENDL Threshold 164.15 keV
CENDL3.2 Threshold 162.82 keV
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
10^-9
CENDL3.2/TENDL
Ratio
1.6
1.2
0.8
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
39
Incident Energy (eV)
22-Ti-47

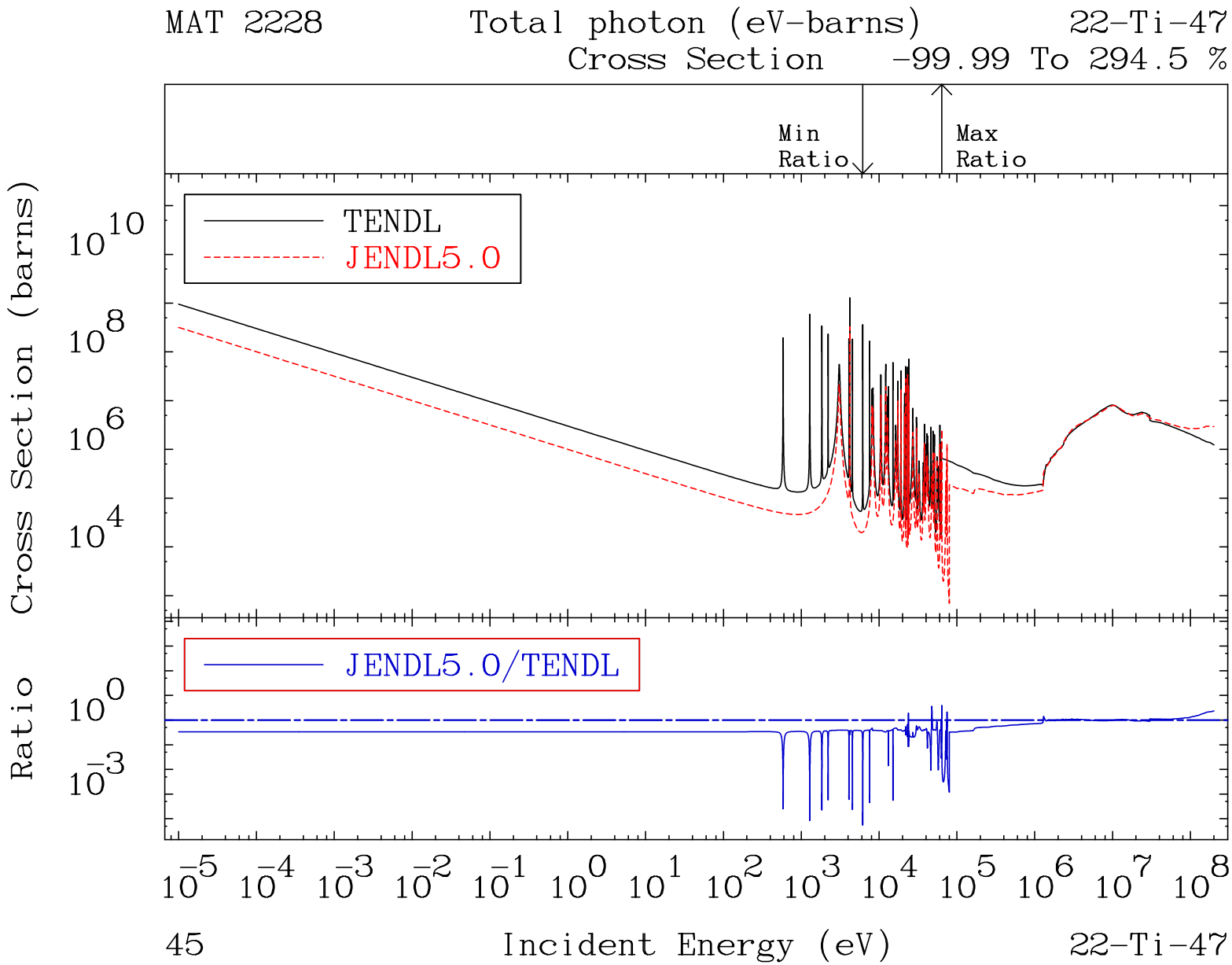

MAT 2228 Dpa disappearance (mt102 -120) 22-Ti-47
Cross Section -99.81 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
40
22-Ti-47

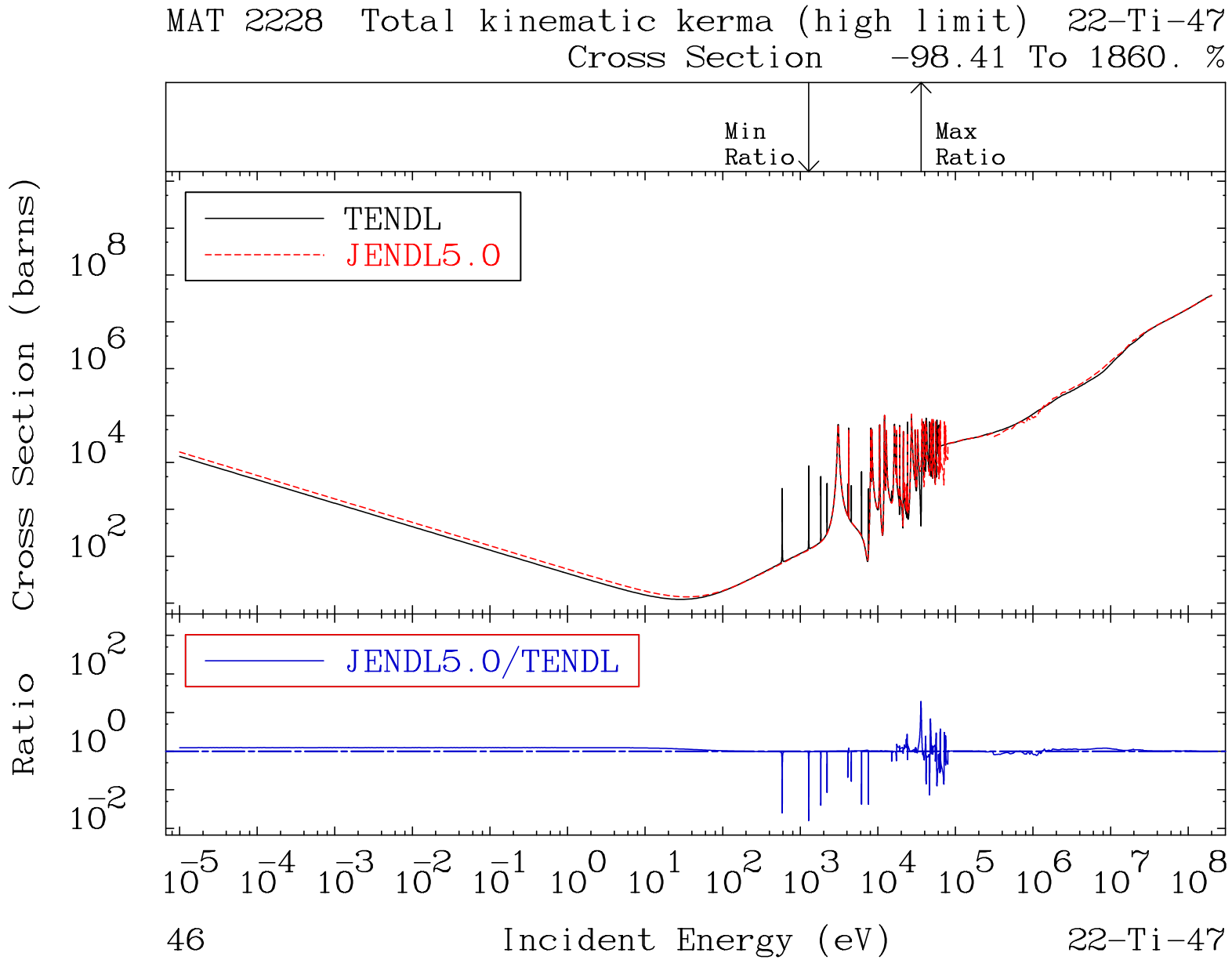

MAT 2228 Kerma non-elastic (all but mt2) 22-Ti-47
Cross Section -99.98 To 1004. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
22-Ti-47

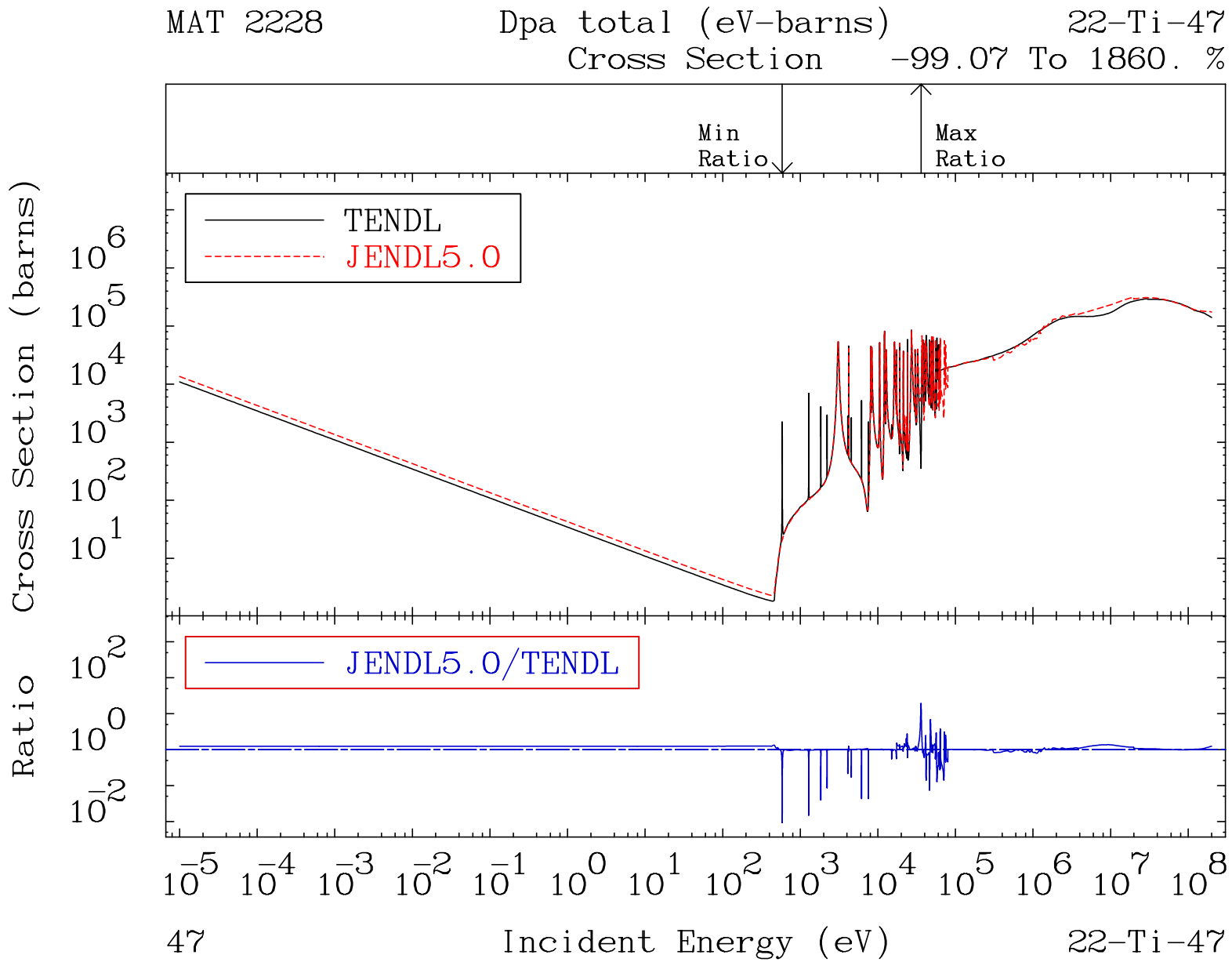

MAT 2228
Kerma inelastic (mt51-91)
22-Ti-47
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 162.79 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Ratio Cross Section (kilo-barns)
500
400
300
200
100
0
40
20
0
10^5
10^6
10^7
10^8
42
Incident Energy (eV)
22-Ti-47

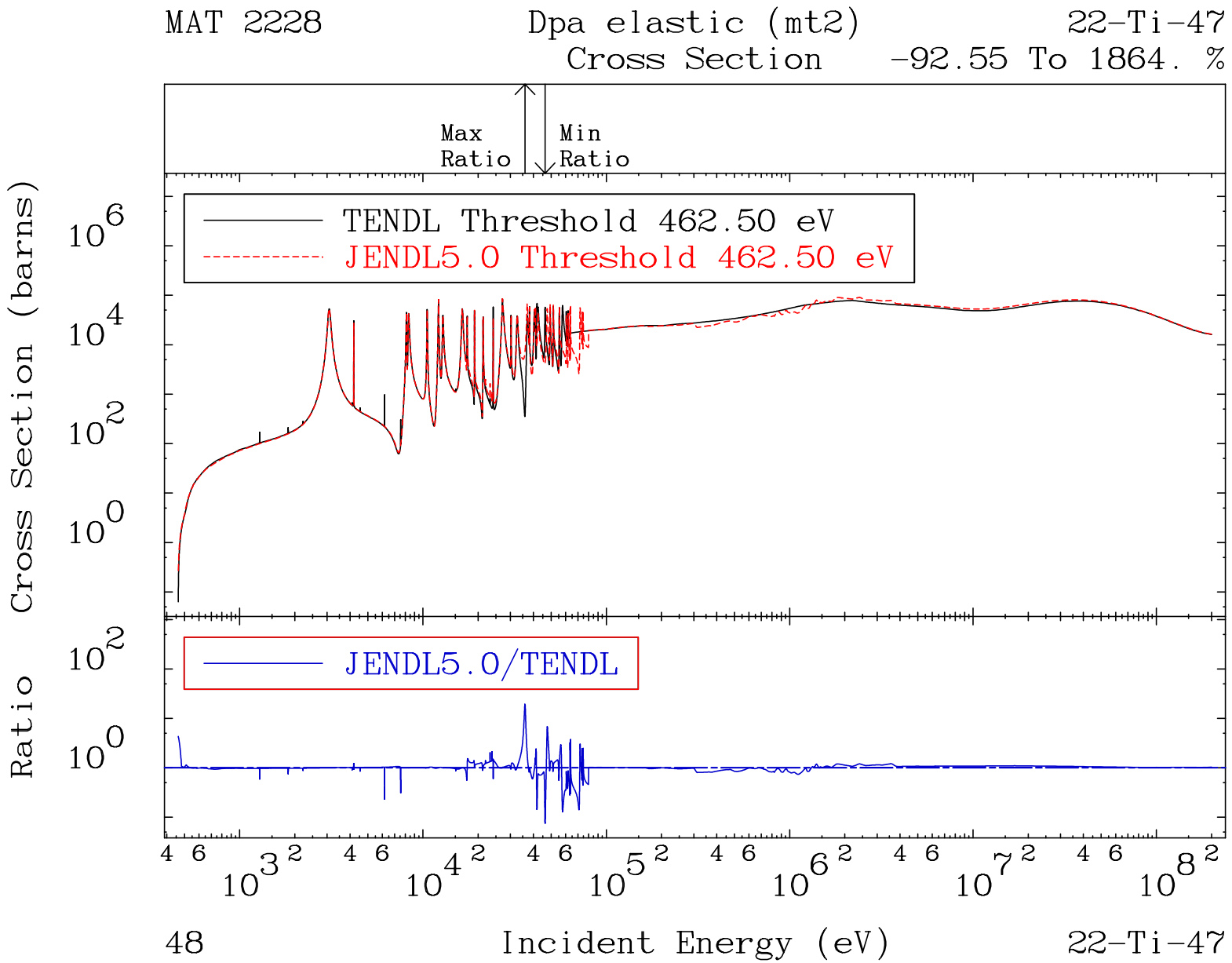

MAT 2228 Kerma fission (mt18 or mt19-20-21-38) 22-Ti-47
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
40
20
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
43
Incident Energy (eV)
22-Ti-47

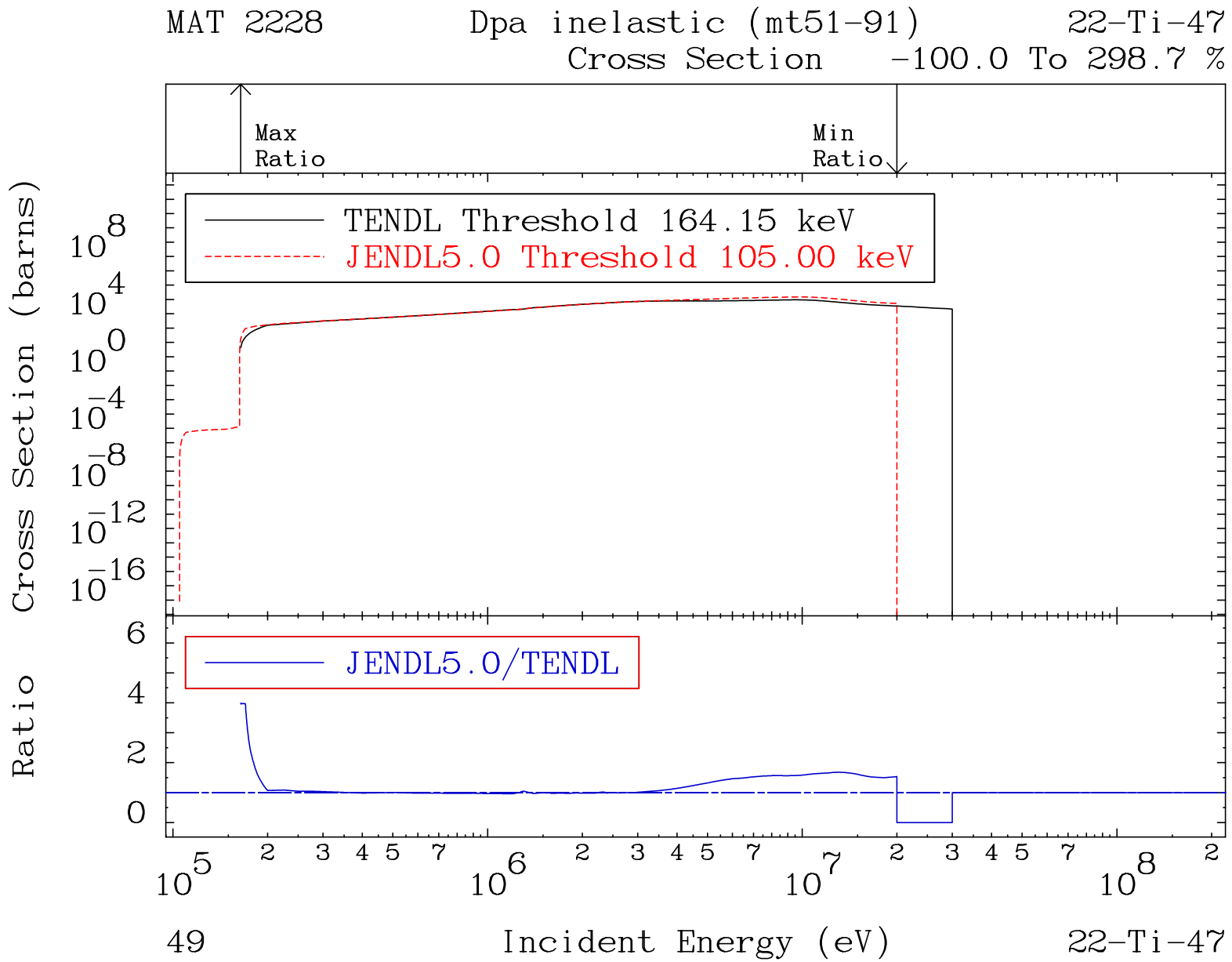

MAT 2228
Kerma capture (mt102)
22-Ti-47
Cross Section -100.0 To 1010. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
22-Ti-47

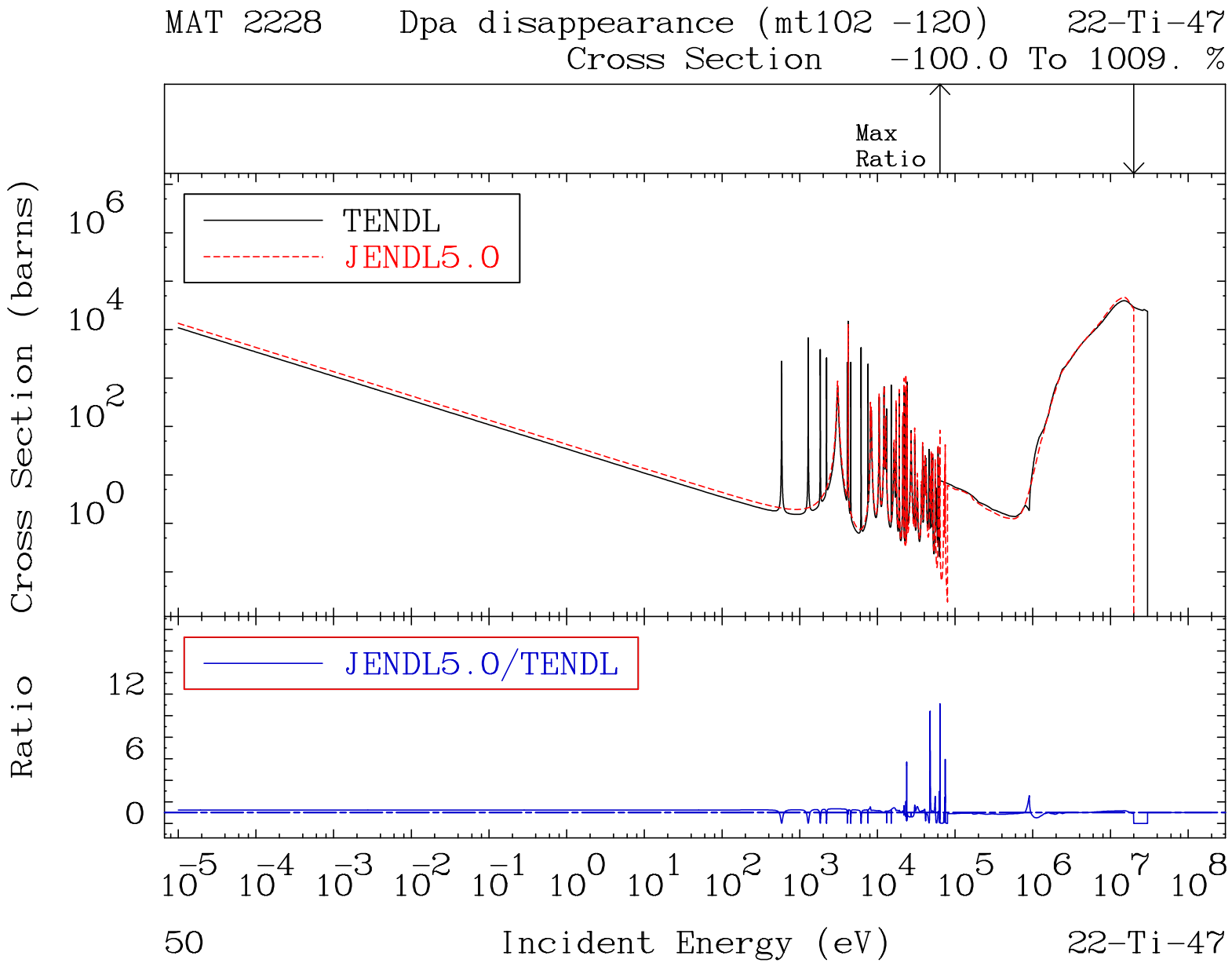

MAT 2228
Total photon (eV-barns)
22-Ti-47
Cross Section
-99.99 To 294.5 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
22-Ti-47

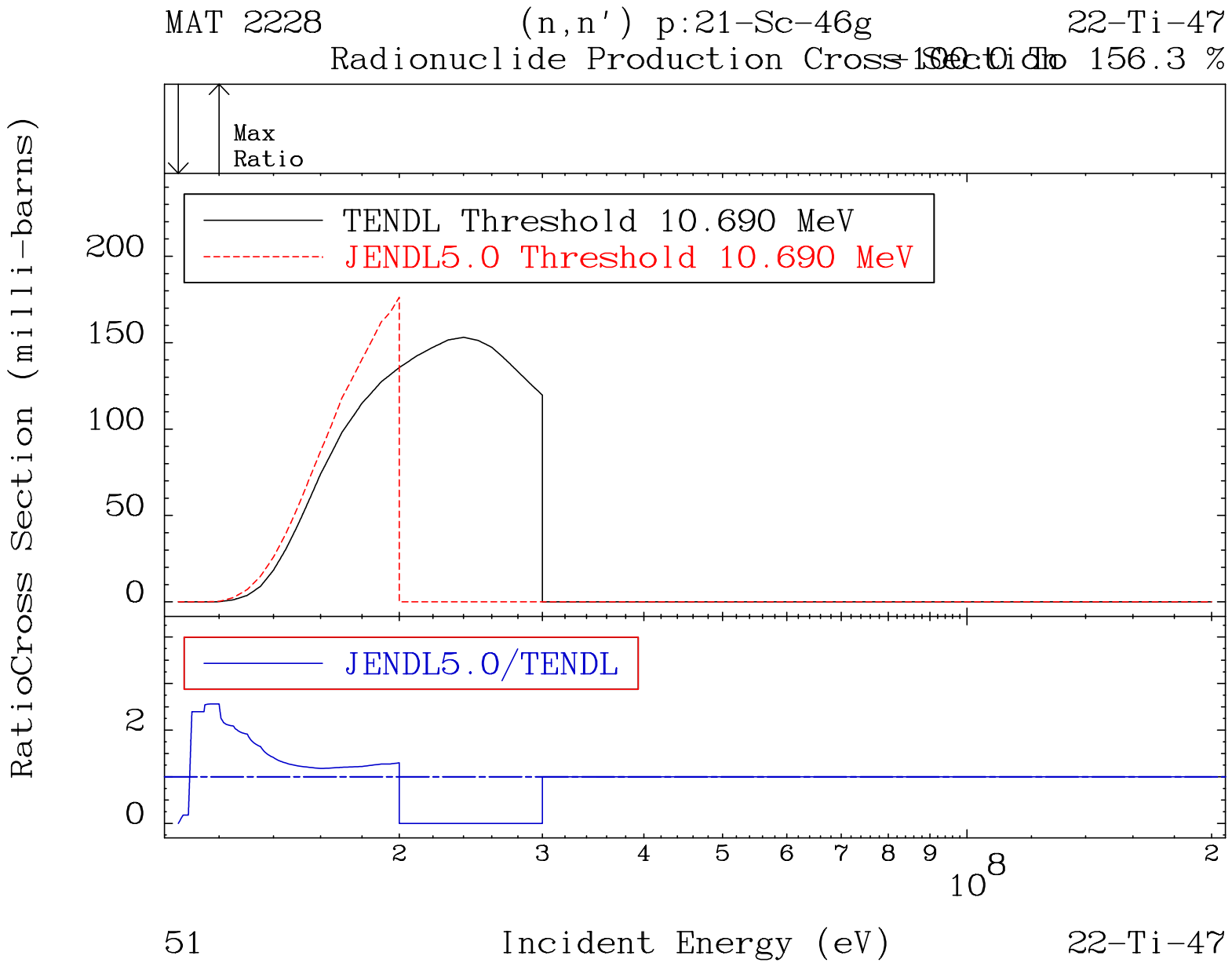

MAT 2228 Total kinematic kerma (high limit) 22-Ti-47
Cross Section -98.41 To 1860. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
46
22-Ti-47

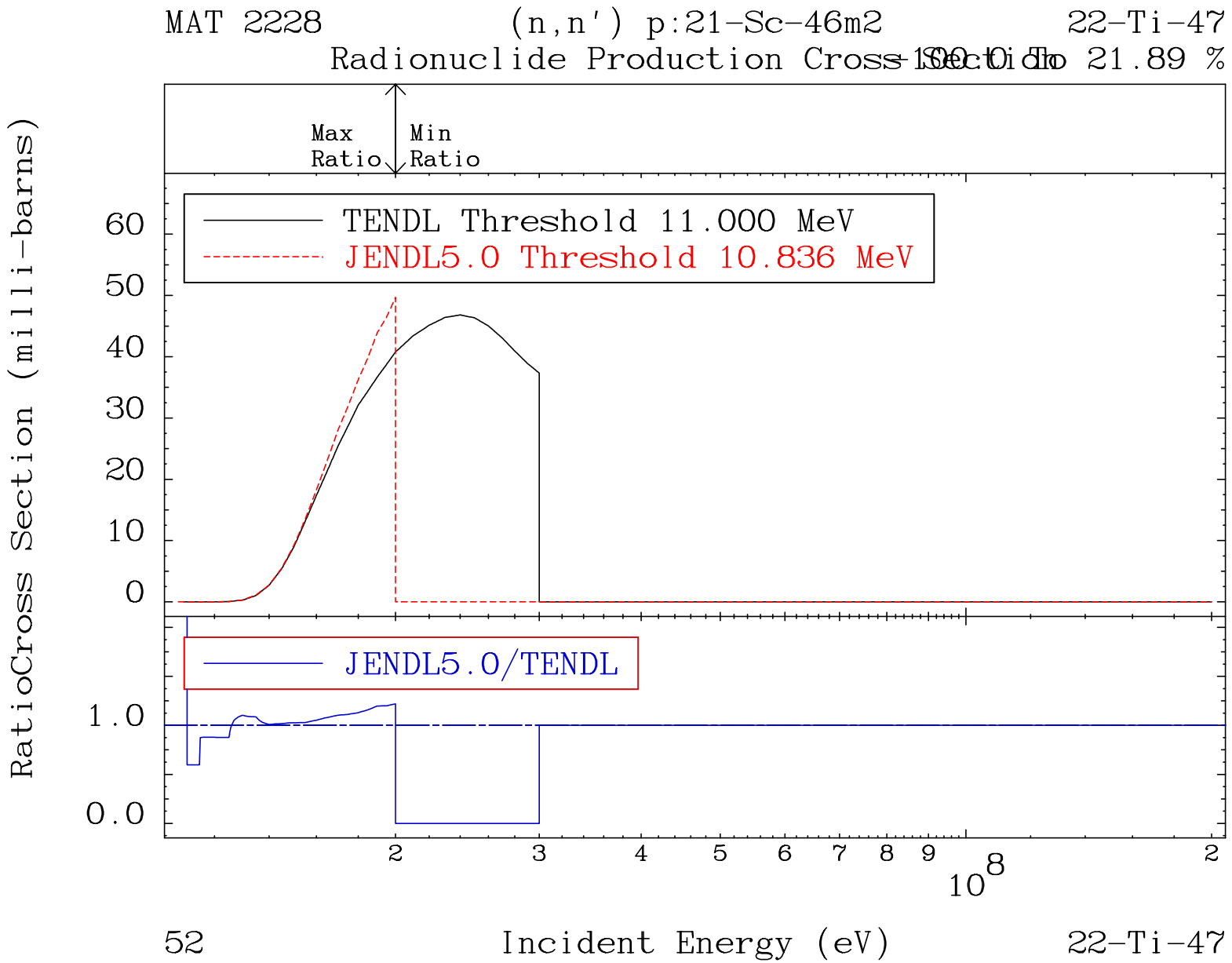

MAT 2228
Dpa total (eV-barns)
22-Ti-47
Cross Section -99.07 To 1860. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
47
22-Ti-47

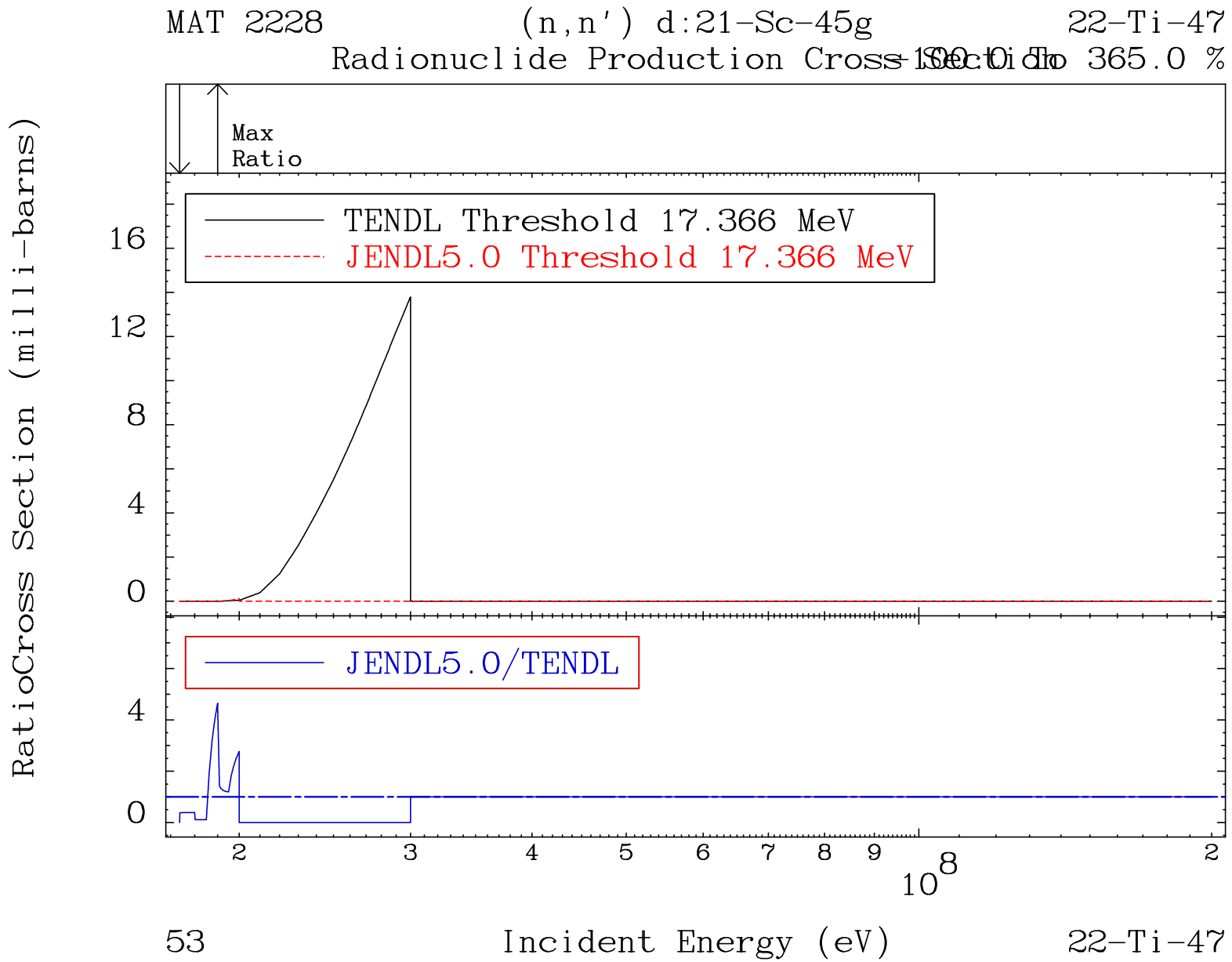

MAT 2228
Dpa elastic (mt2)
Cross Section
22-Ti-47
-92.55 To 1864. %
Max Ratio
Min Ratio
TENDL Threshold 462.50 eV
JENDL5.0 Threshold 462.50 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
22-Ti-47

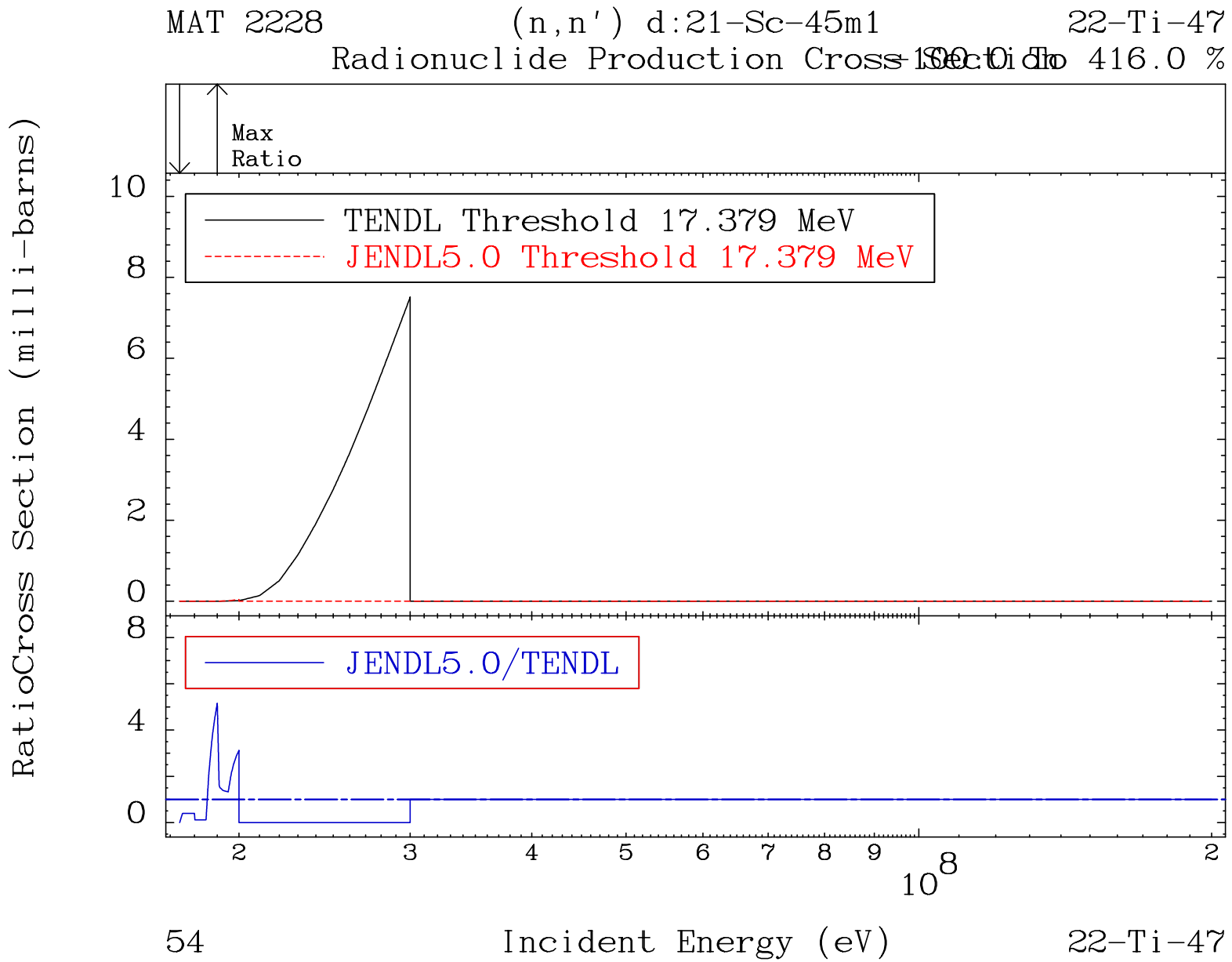

MAT 2228
Dpa inelastic (mt51-91)
22-Ti-47
Cross Section
-100.0 To 298.7 %
Max Ratio
Min Ratio
TENDL Threshold 164.15 keV
JENDL5.0 Threshold 105.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
22-Ti-47

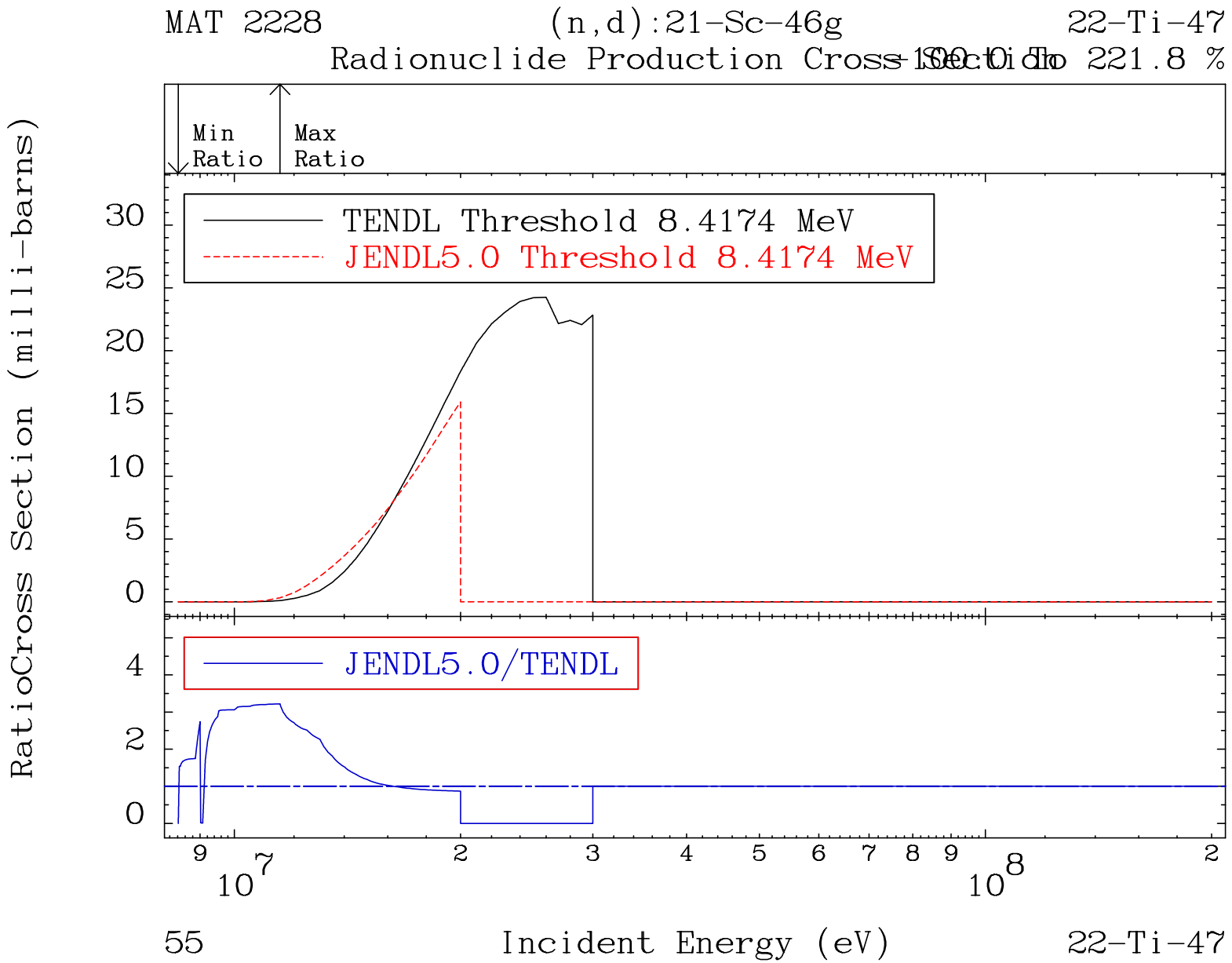

MAT 2228 Dpa disappearance (mt102 -120) 22-Ti-47
Cross Section -100.0 To 1009. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
JENDL5.0/TENDL
Ratio
12
6
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
22-Ti-47

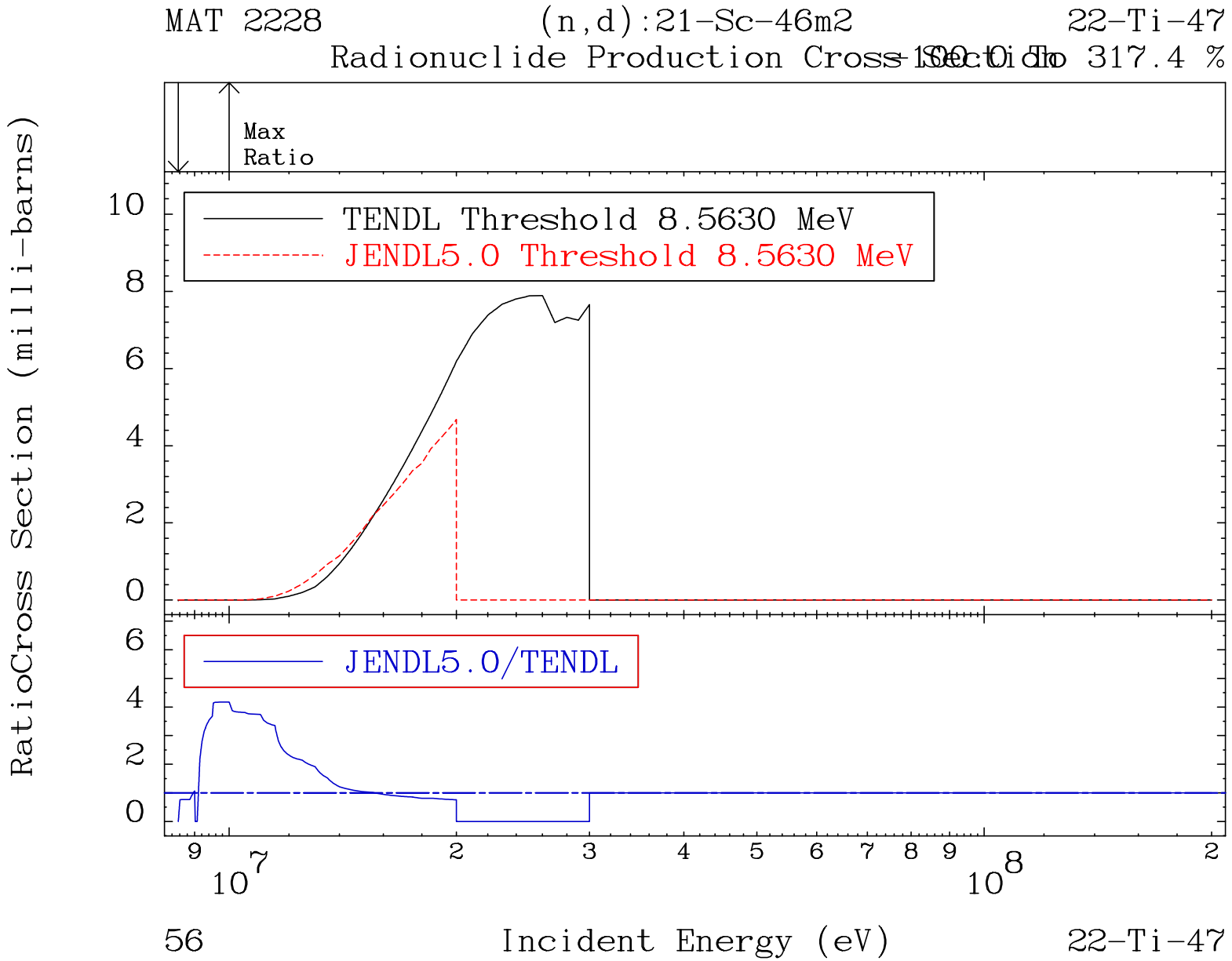

MAT 2228
(n,n') p:21-Sc-46g
22-Ti-47
Radionuclide Production Cross Section Ratio
Max
Ratio
TENDL Threshold 10.690 MeV
JENDL5.0 Threshold 10.690 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2
0
2
3
4
5
6
7
8
9
2
10^8
51
Incident Energy (eV)
22-Ti-47

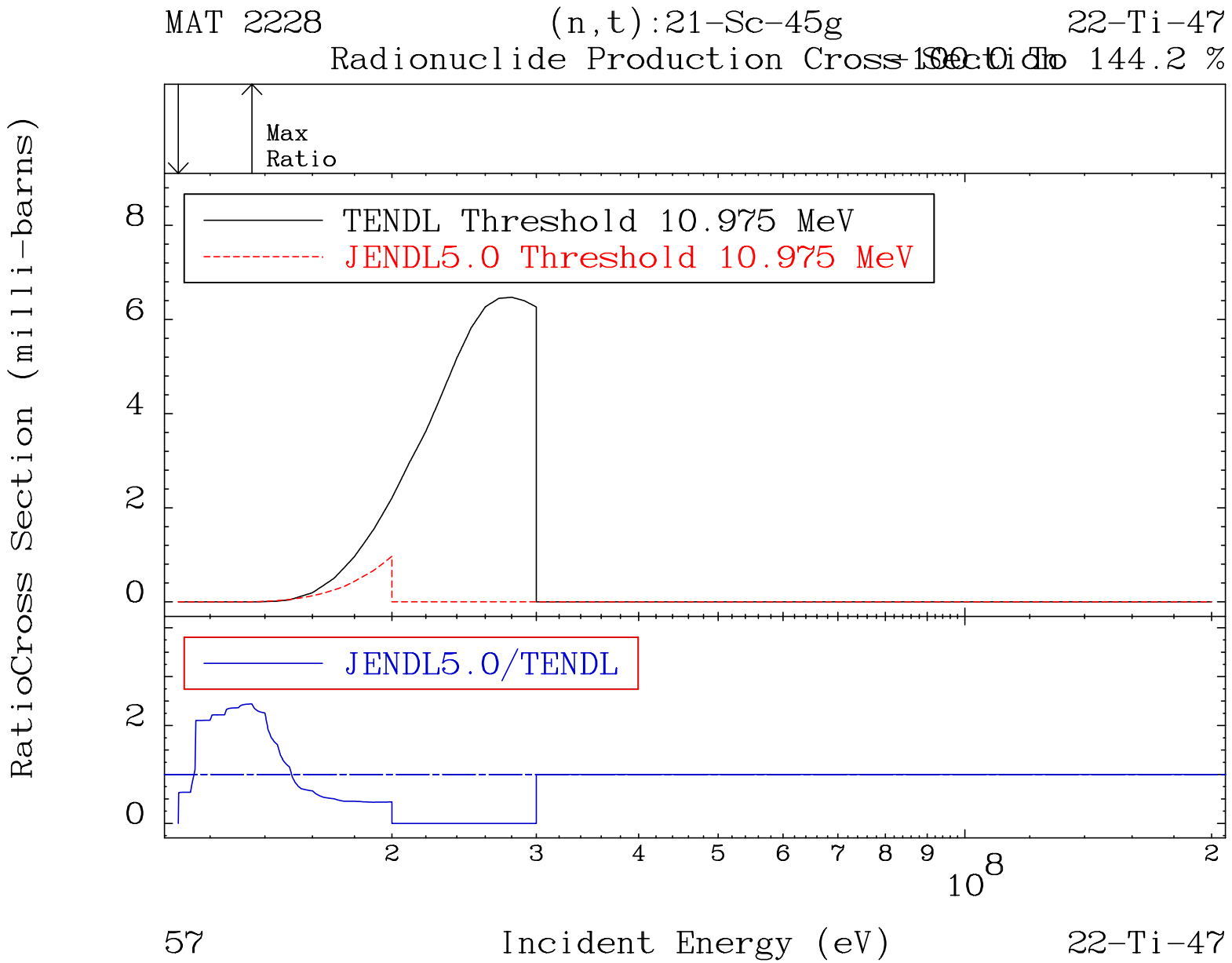

MAT 2228
(n,n') p:21-Sc-46m2
22-Ti-47
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 11.000 MeV
JENDL5.0 Threshold 10.836 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
52
Incident Energy (eV)
22-Ti-47

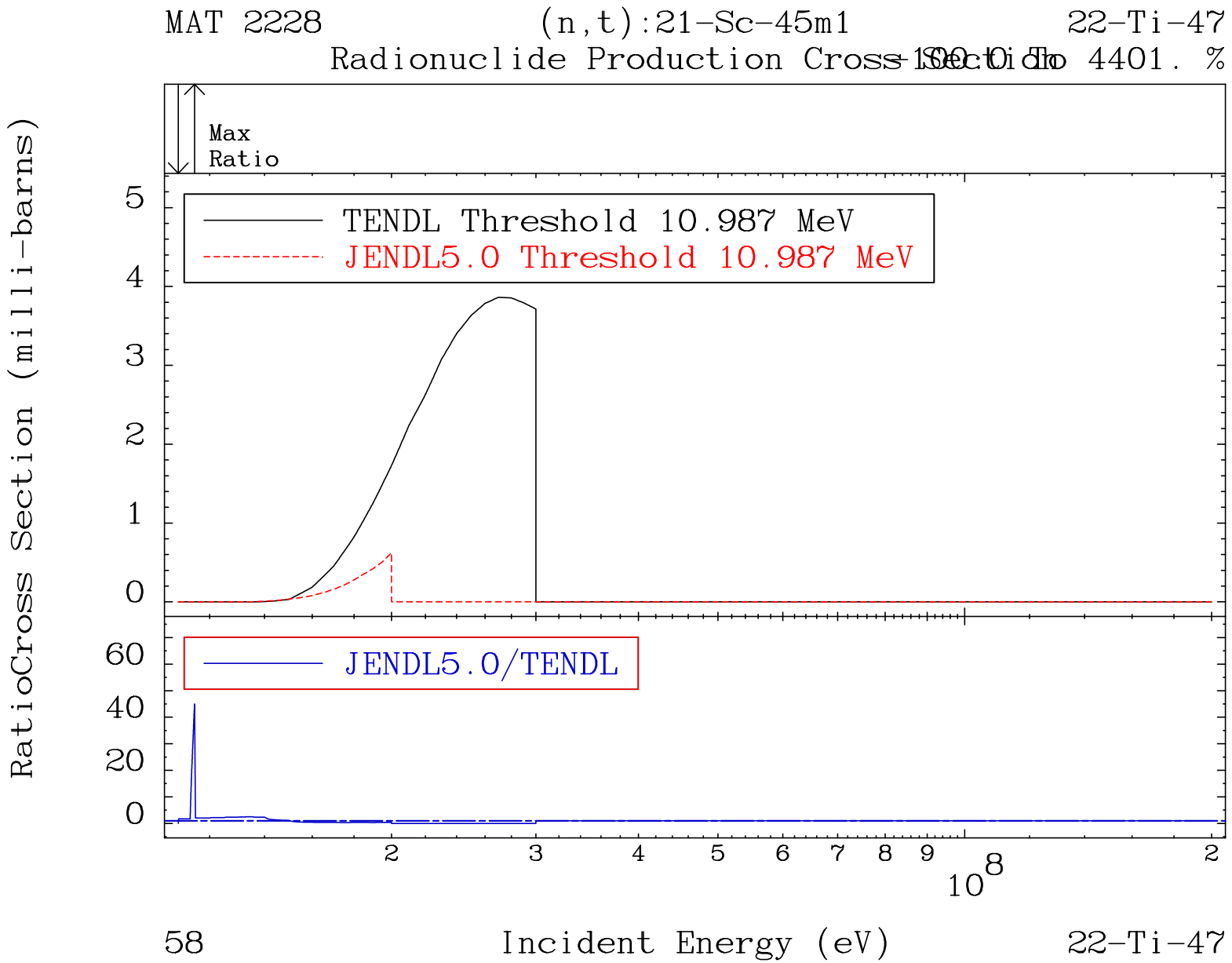

MAT 2228
(n,n') d:21-Sc-45g
22-Ti-47
Radionuclide Production Cross Section To 365.0 %
Max
Ratio
TENDL Threshold 17.366 MeV
JENDL5.0 Threshold 17.366 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
0
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
22-Ti-47

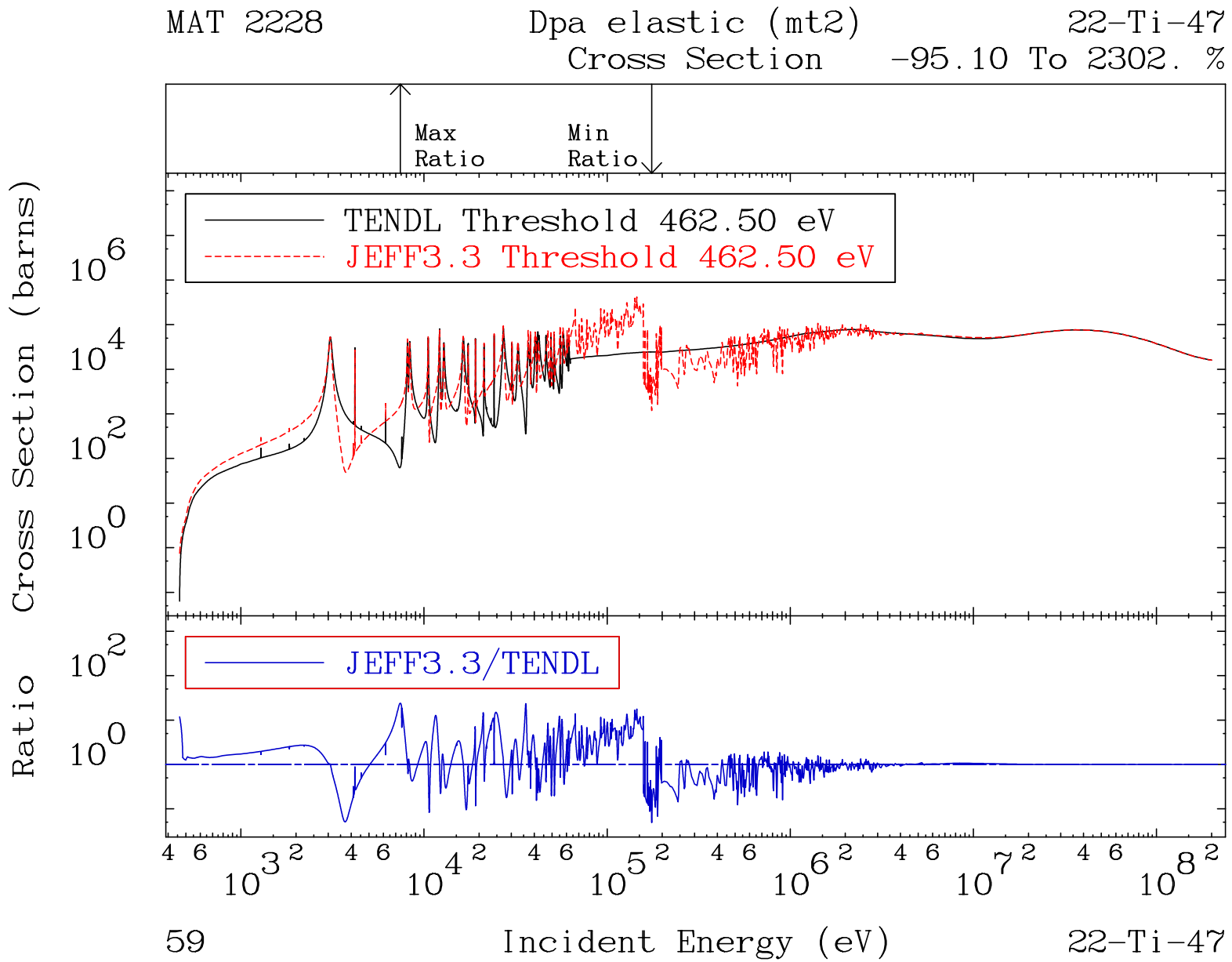

MAT 2228
(n,n') d:21-Sc-45m1
22-Ti-47
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 17.379 MeV
JENDL5.0 Threshold 17.379 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
54
22-Ti-47

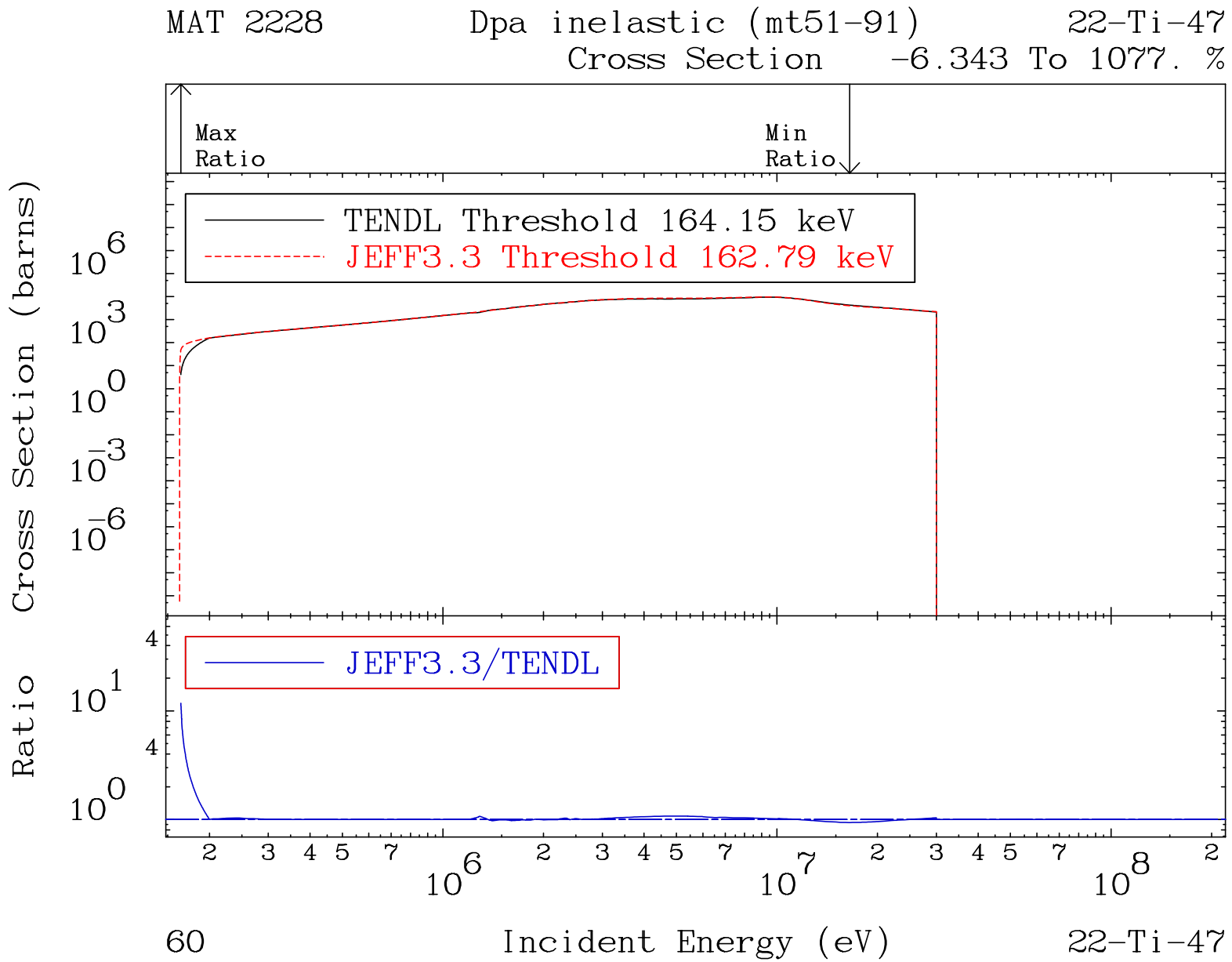

MAT 2228
(n,d):21-Sc-46g
22-Ti-47
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 8.4174 MeV
JENDL5.0 Threshold 8.4174 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
55
22-Ti-47

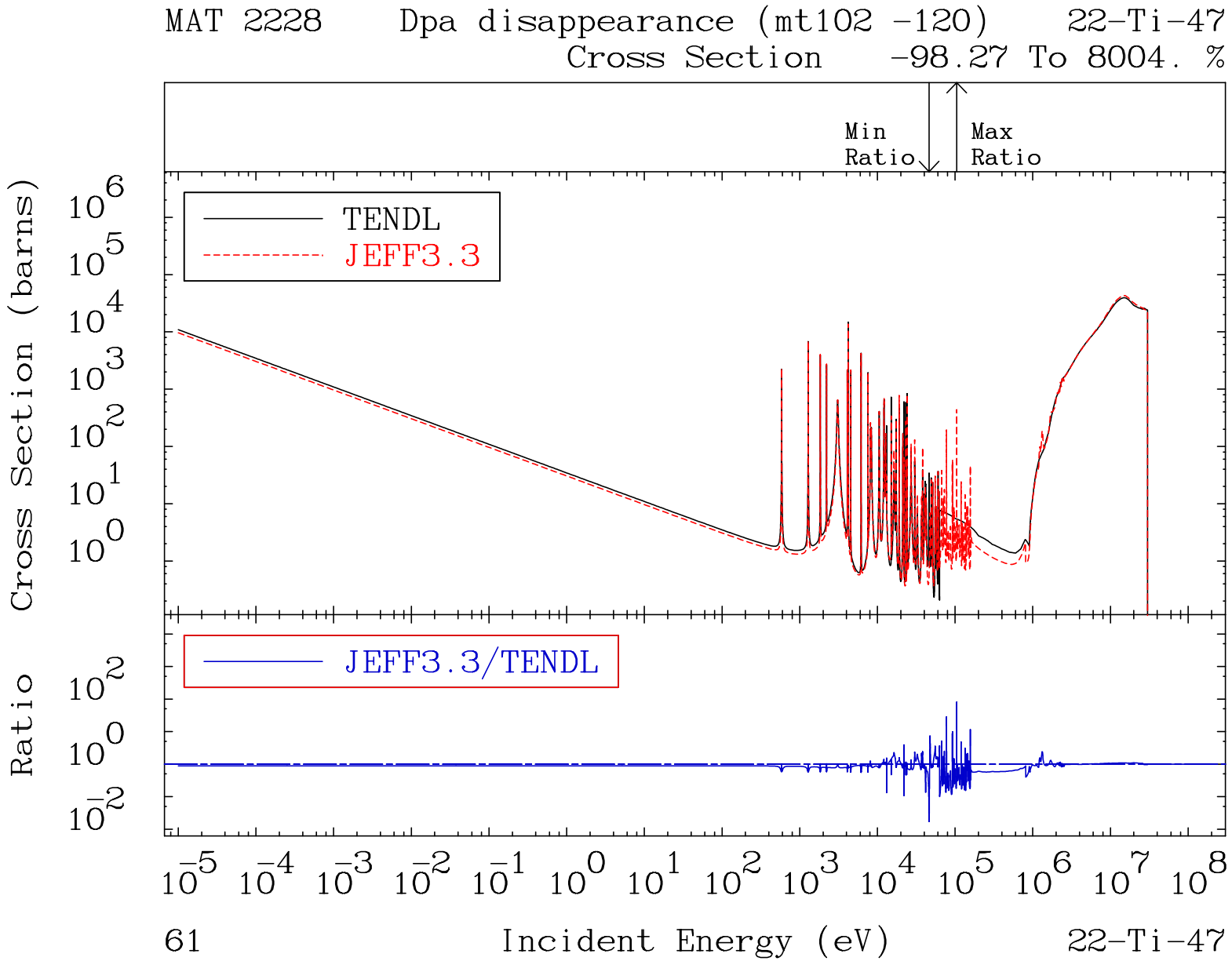

MAT 2228
(n,d):21-Sc-46m2
22-Ti-47
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 8.5630 MeV
JENDL5.0 Threshold 8.5630 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
56
22-Ti-47

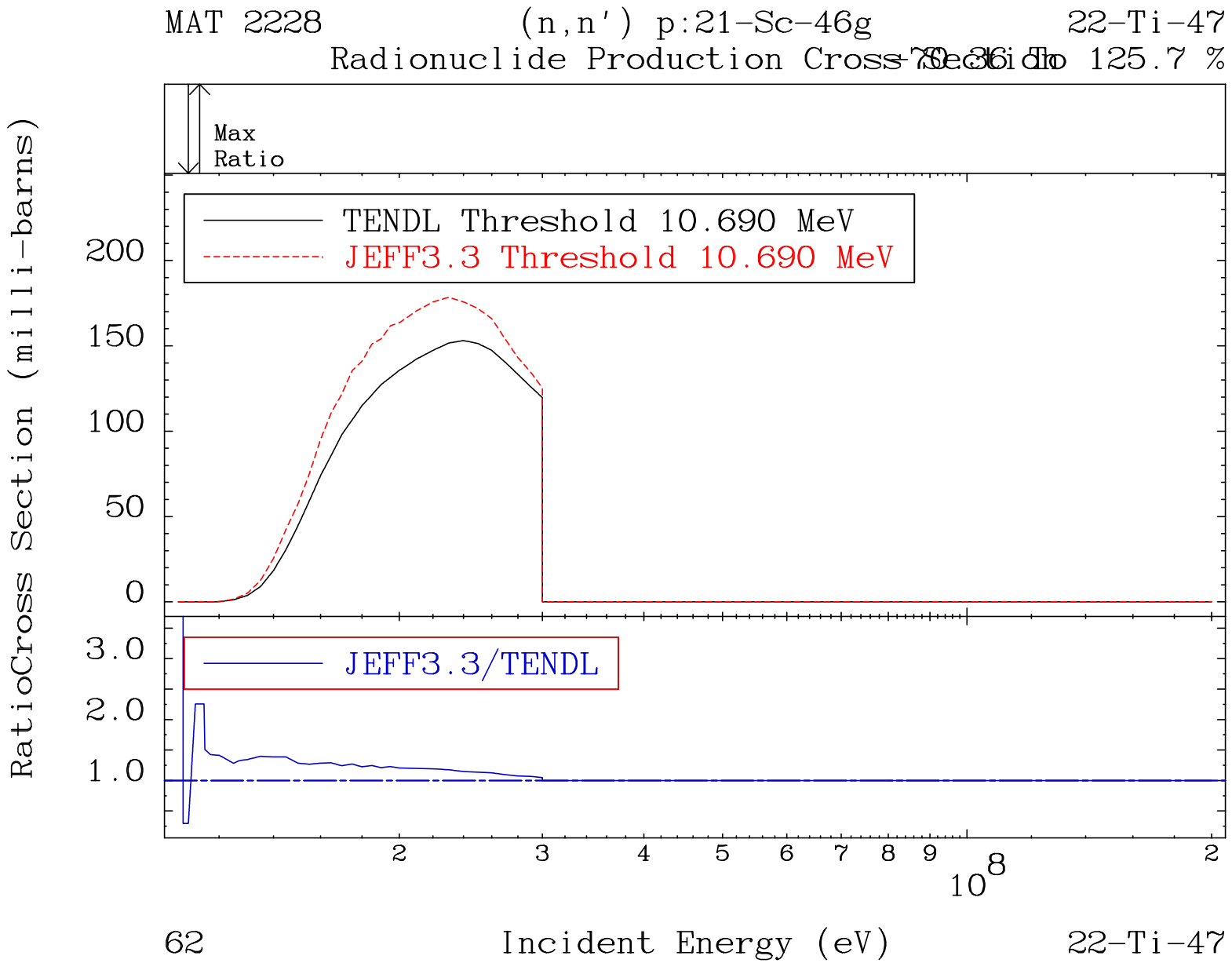

MAT 2228
(n,t):21-Sc-45g
22-Ti-47
Radionuclide Production Cross Section To 144.2 %
Max
Ratio
TENDL Threshold 10.975 MeV
JENDL5.0 Threshold 10.975 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
57
22-Ti-47

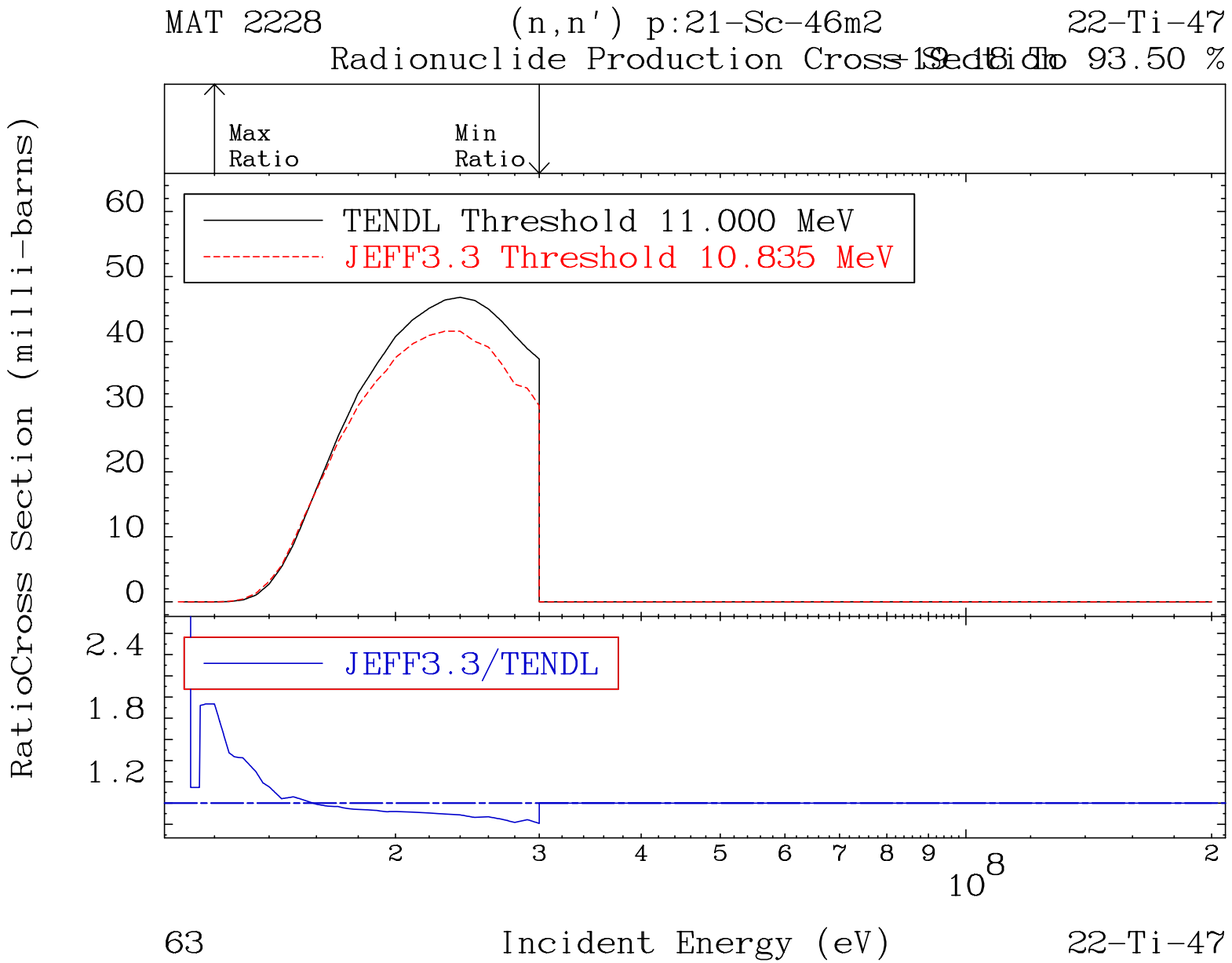

MAT 2228
(n,t):21-Sc-45m1
22-Ti-47
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 10.987 MeV
JENDL5.0 Threshold 10.987 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
58
22-Ti-47

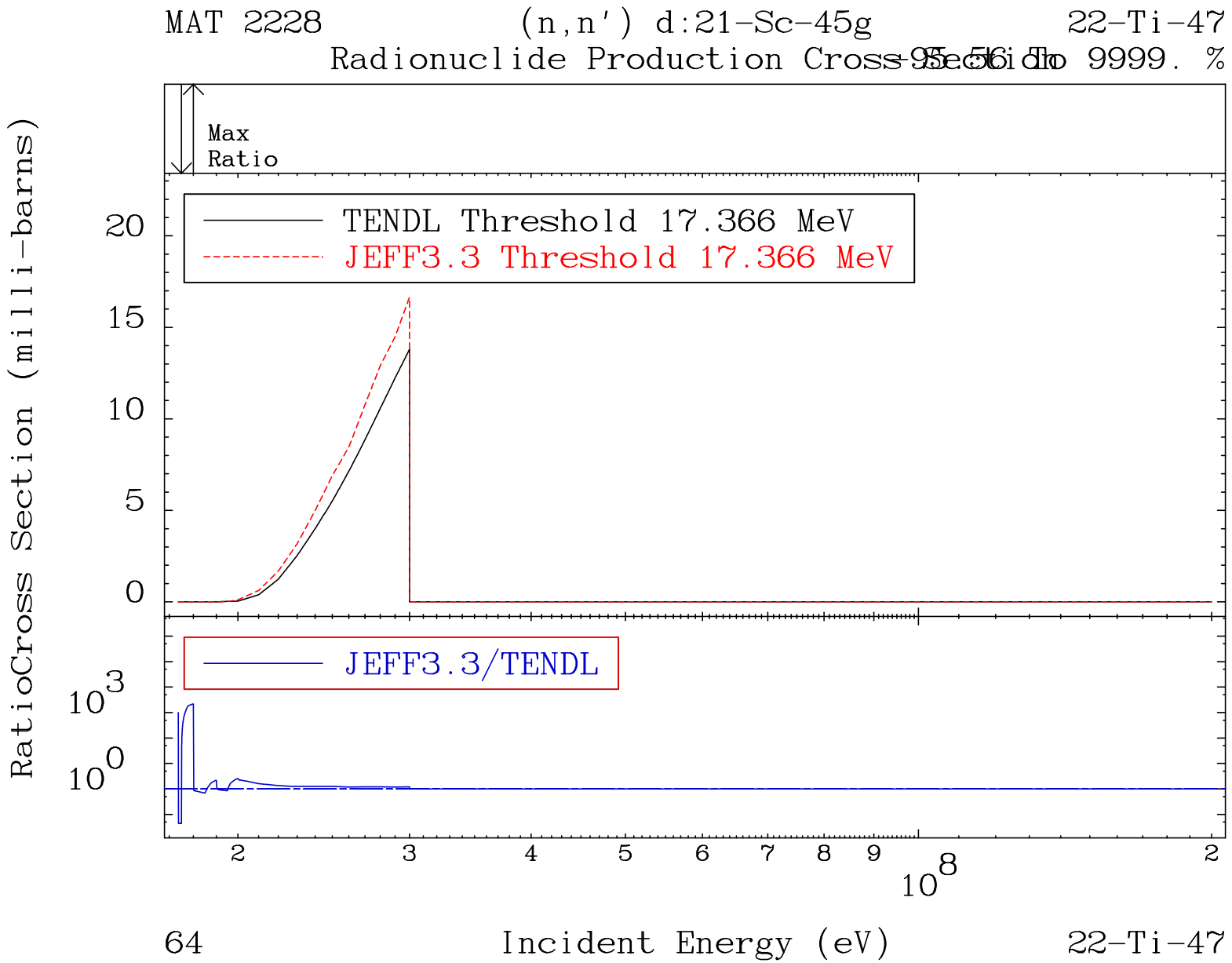

MAT 2228
Dpa elastic (mt2)
Cross Section
22-Ti-47
-95.10 To 2302. %
Max Ratio
Min Ratio
TENDL Threshold 462.50 eV
JEFF3.3 Threshold 462.50 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
22-Ti-47

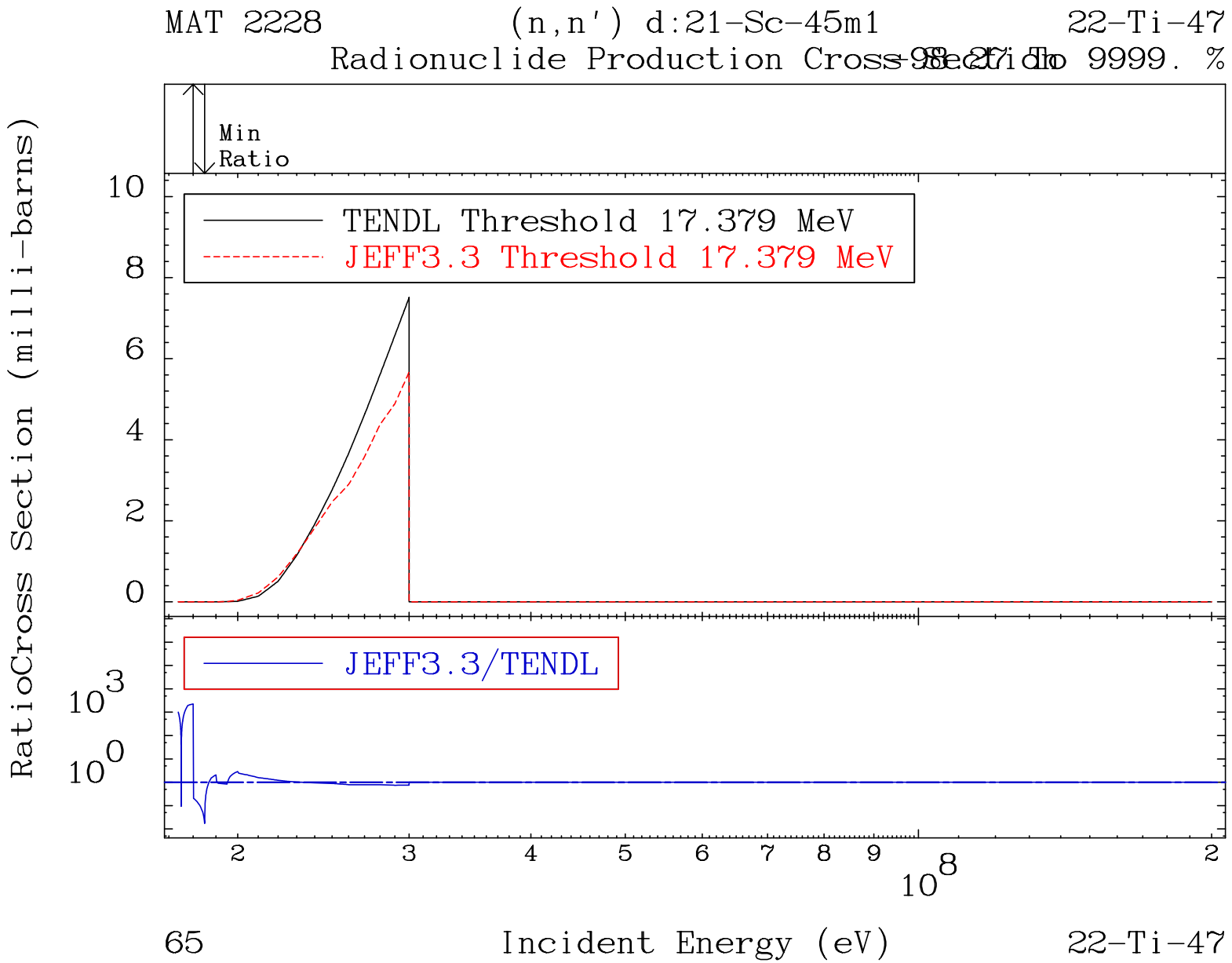

MAT 2228
Dpa inelastic (mt51-91)
22-Ti-47
Cross Section
-6.343 To 1077. %
Max Ratio
Min Ratio
TENDL Threshold 164.15 keV
JEFF3.3 Threshold 162.79 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
22-Ti-47

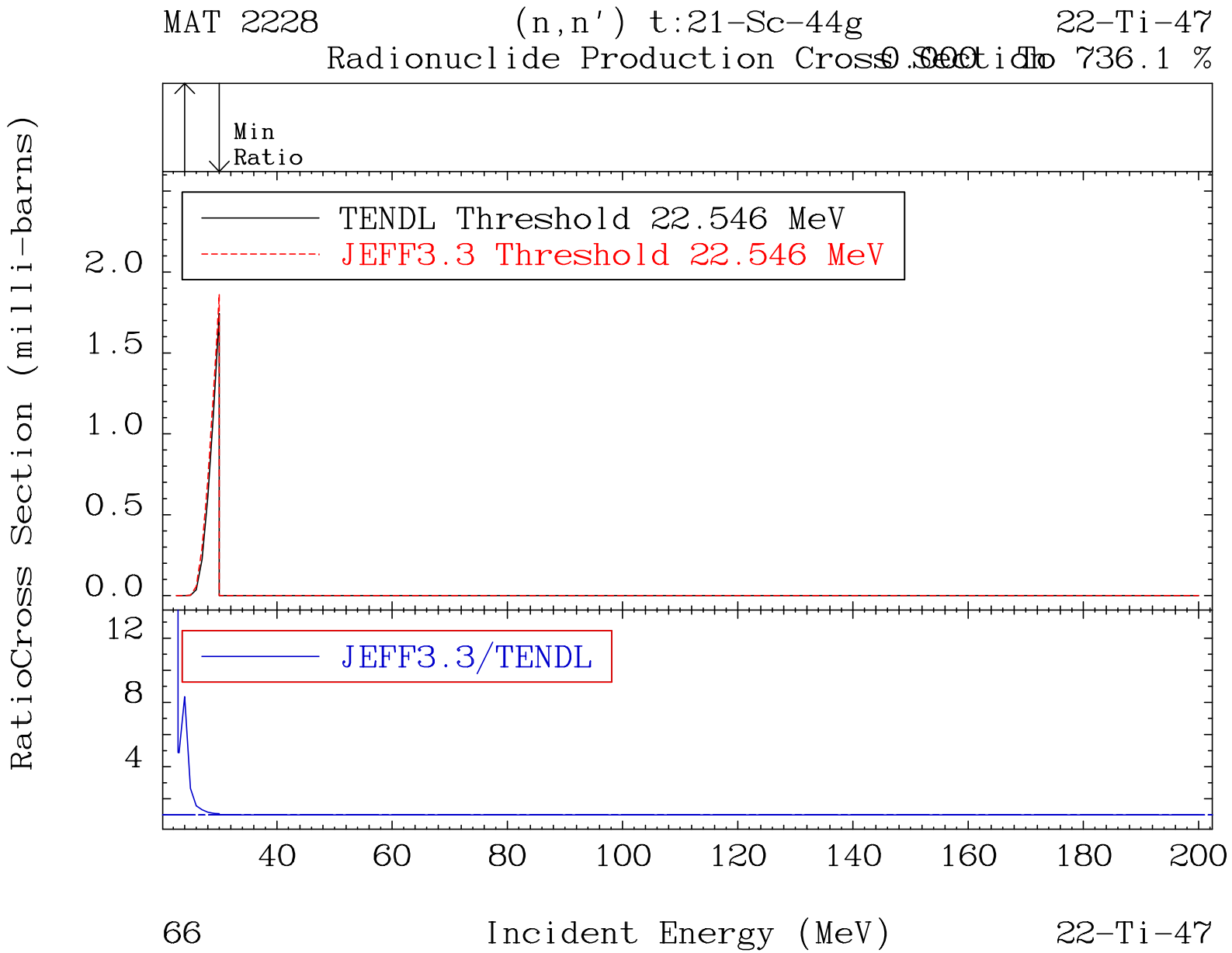

MAT 2228 Dpa disappearance (mt102 -120) 22-Ti-47
Cross Section -98.27 To 8004. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
22-Ti-47

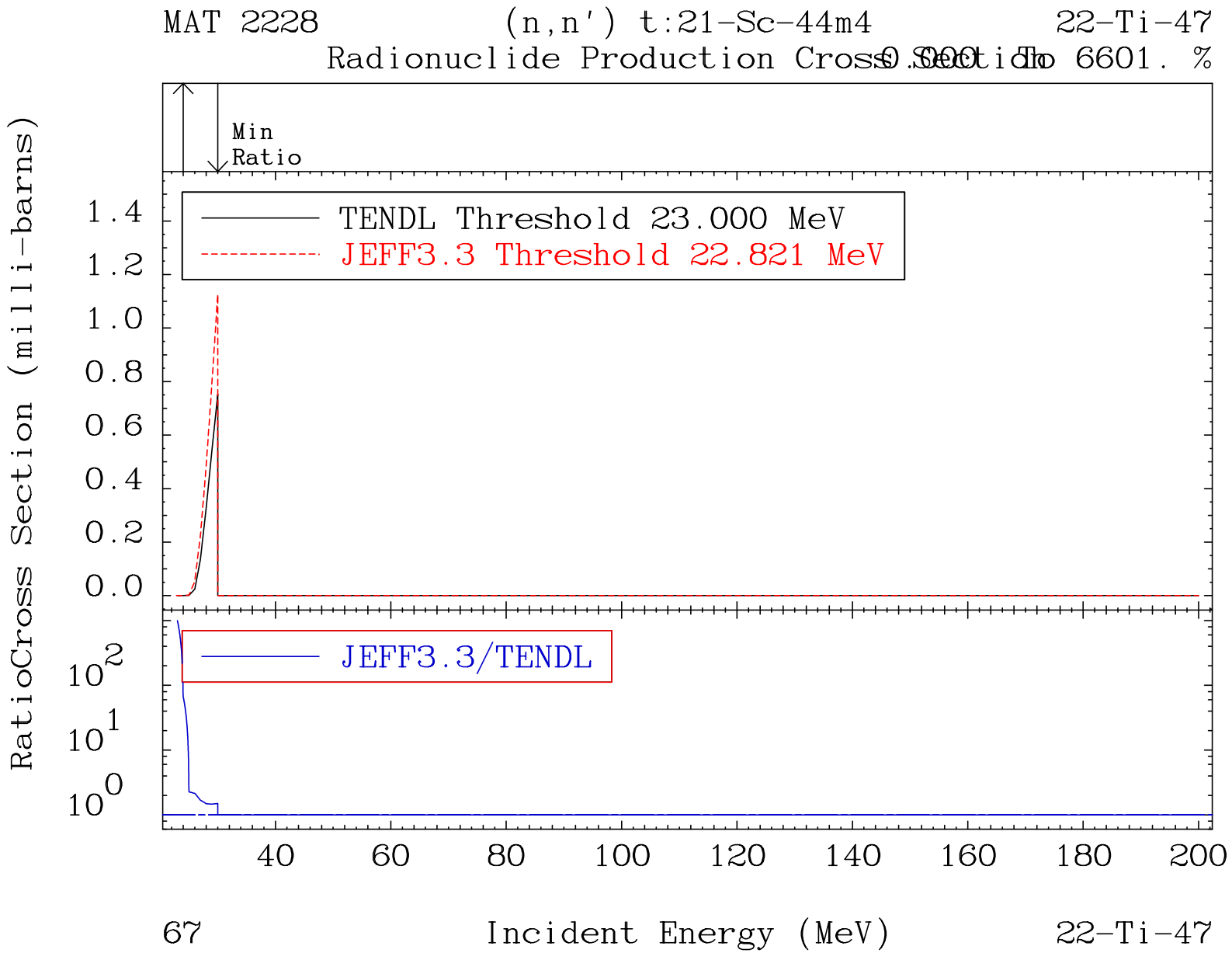

MAT 2228
(n,n') p:21-Sc-46g
22-Ti-47
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 10.690 MeV
JEFF3.3 Threshold 10.690 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
2
10^8
62
Incident Energy (eV)
22-Ti-47

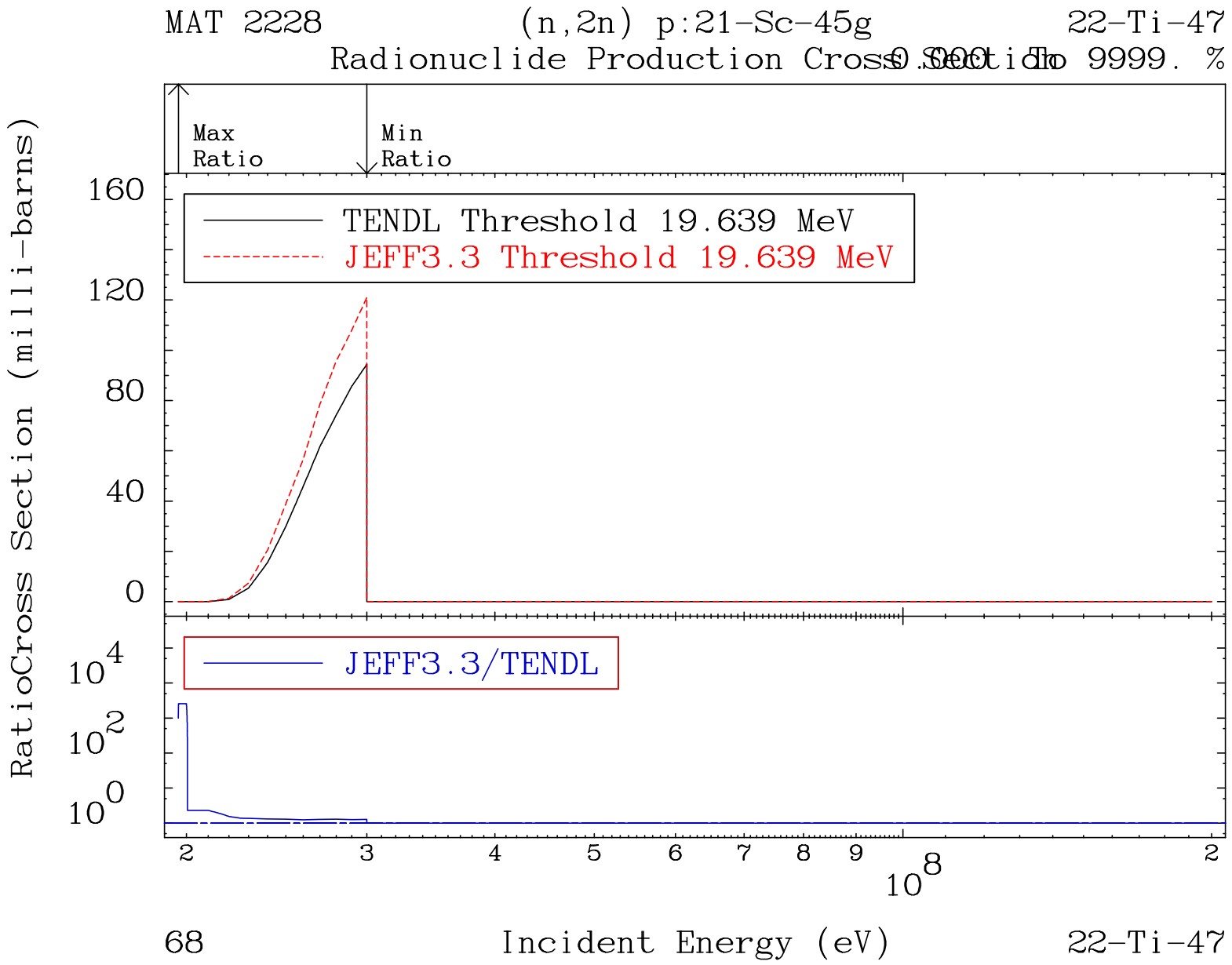

MAT 2228
(n,n') p:21-Sc-46m2
22-Ti-47
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 11.000 MeV
JEFF3.3 Threshold 10.835 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
63
22-Ti-47

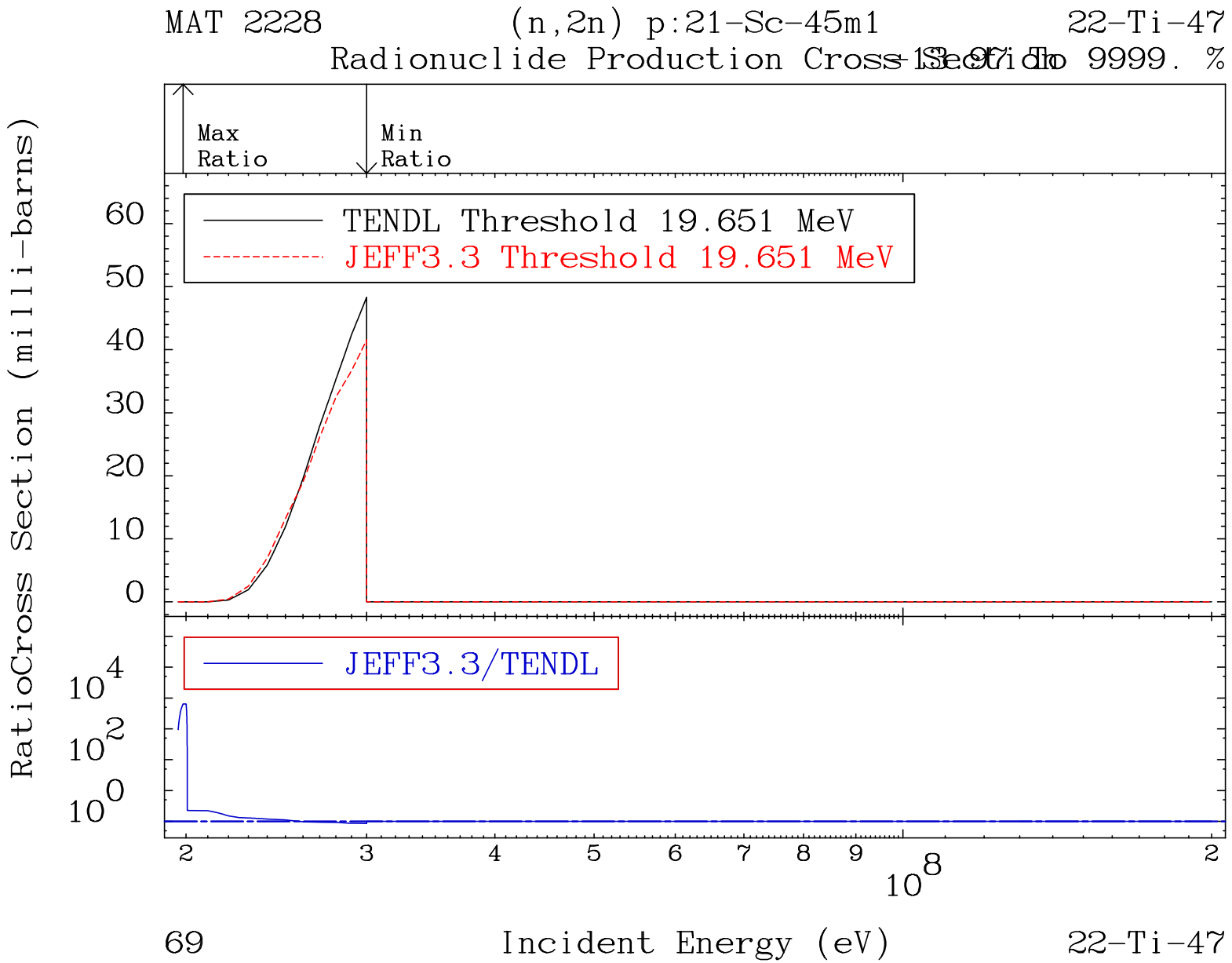

MAT 2228
(n,n') d:21-Sc-45g
22-Ti-47
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 17.366 MeV
JEFF3.3 Threshold 17.366 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
22-Ti-47

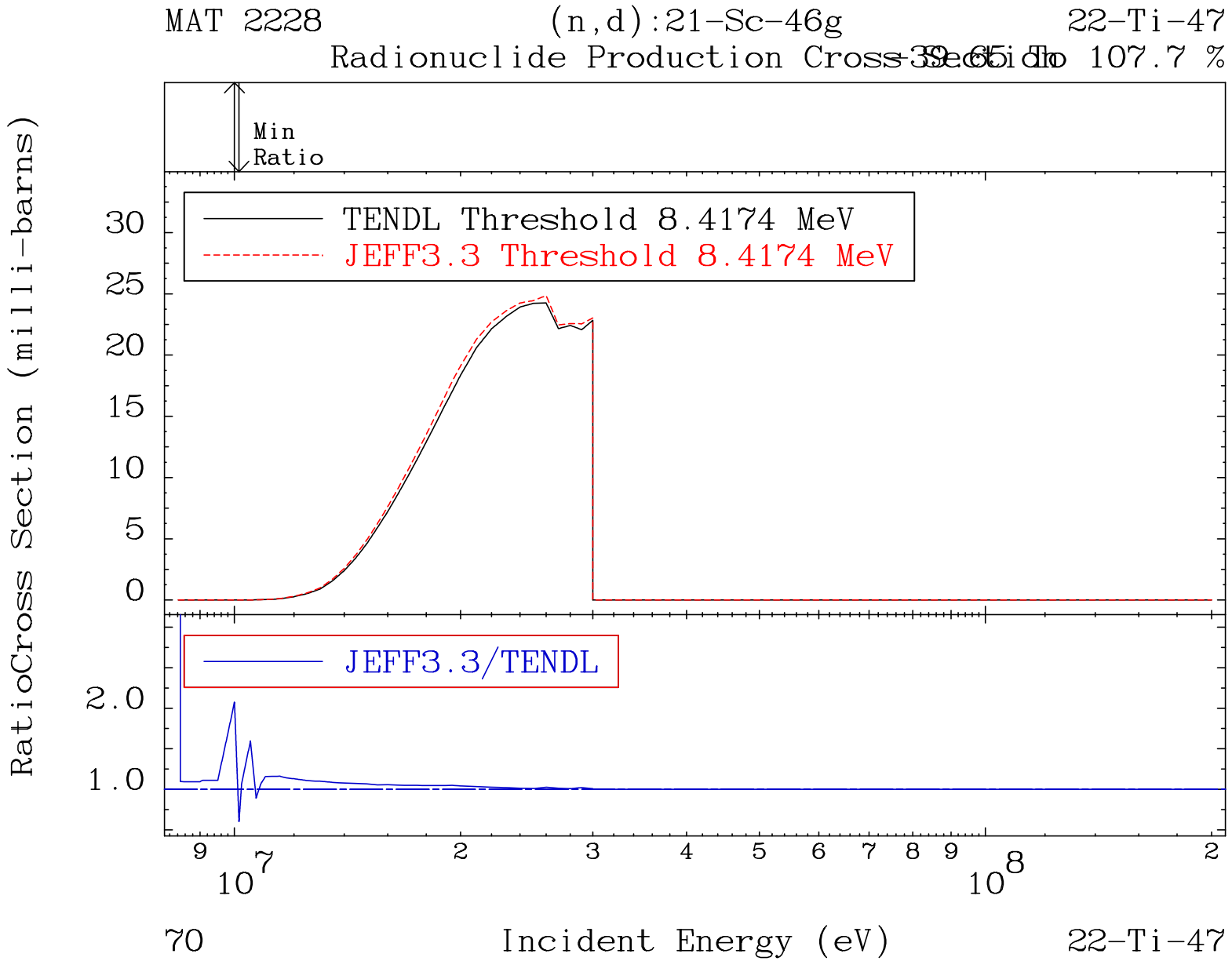

MAT 2228
(n,n') d:21-Sc-45m1
22-Ti-47
Radionuclide Production Cross-Section To 9999. %
Min
Ratio
TENDL Threshold 17.379 MeV
JEFF3.3 Threshold 17.379 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
10^3
10^0
2
3
4
5
6
7
8
9
10^8
2
65
Incident Energy (eV)
22-Ti-47

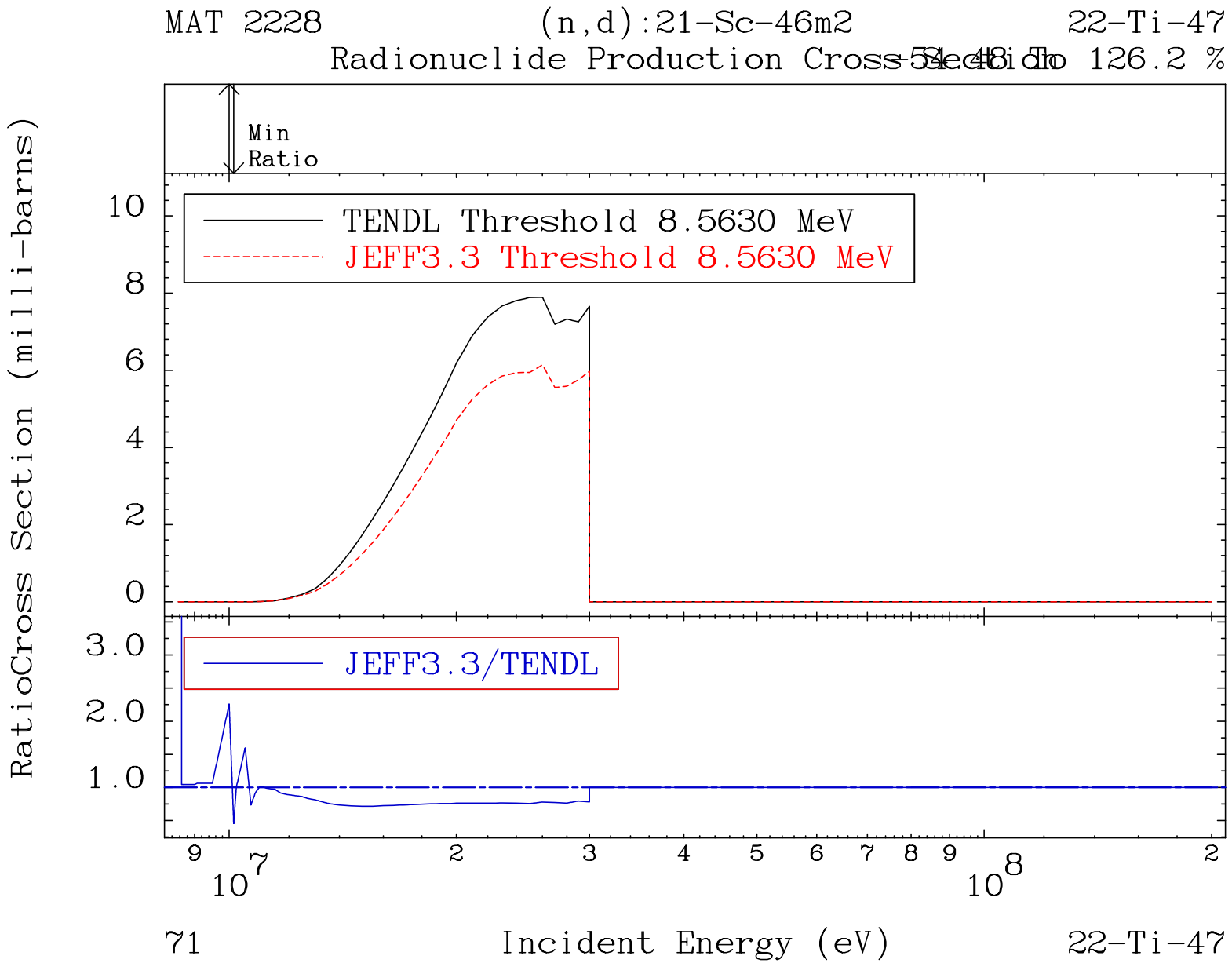

MAT 2228
(n,n') t:21-Sc-44g
22-Ti-47
Radionuclide Production Cross Section
0.000 To 736.1 %
Min
Ratio
TENDL Threshold 22.546 MeV
JEFF3.3 Threshold 22.546 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.0
1.5
1.0
0.5
0.0
12
8
4
40
60
80
100
120
140
160
180
200
66
Incident Energy (MeV)
22-Ti-47

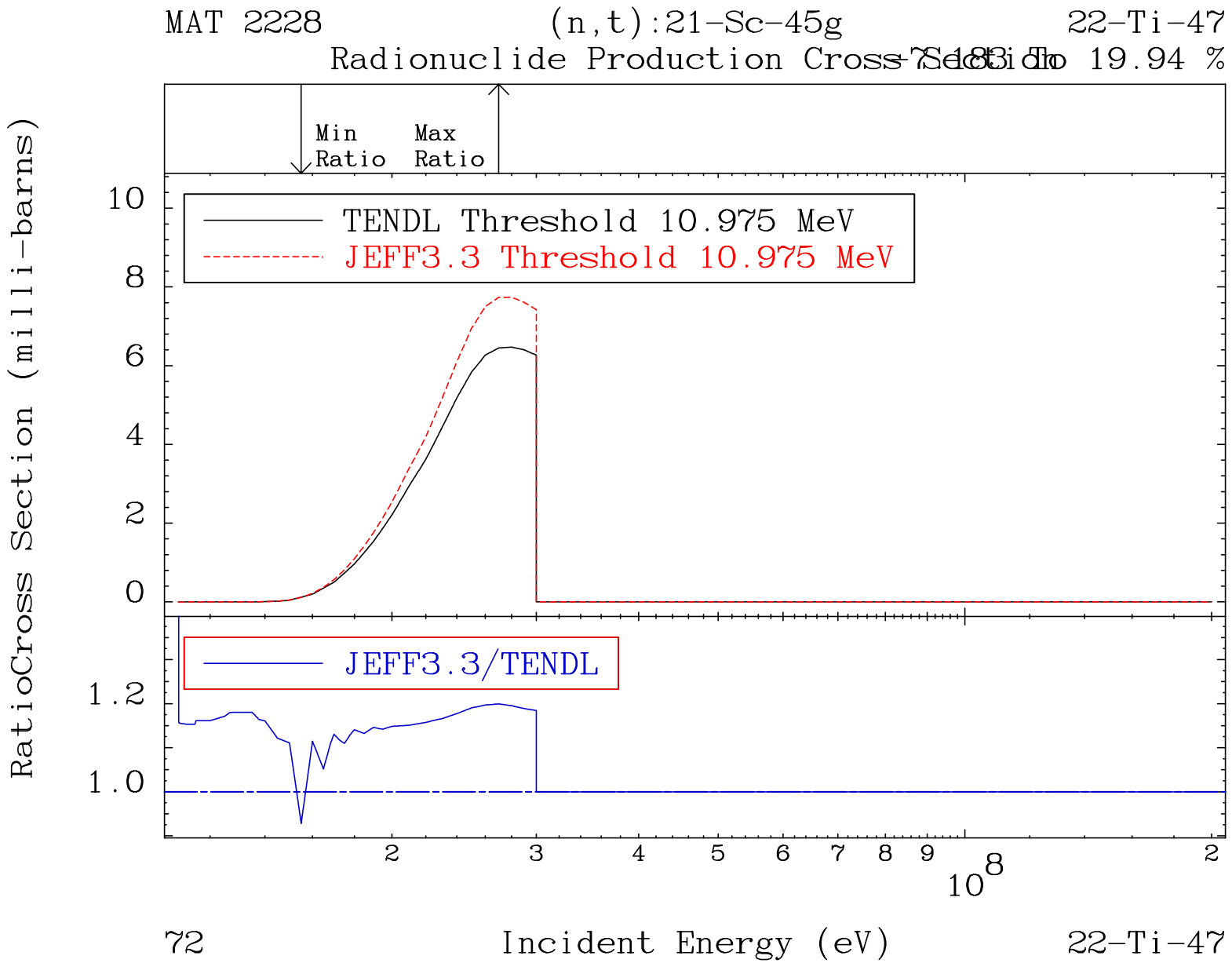

MAT 2228
(n,n') t:21-Sc-44m4
22-Ti-47
Radionuclide Production Cross Section
0.000 To 6601. %
Min
Ratio
TENDL Threshold 23.000 MeV
JEFF3.3 Threshold 22.821 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
10^2
10^1
10^0
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
22-Ti-47

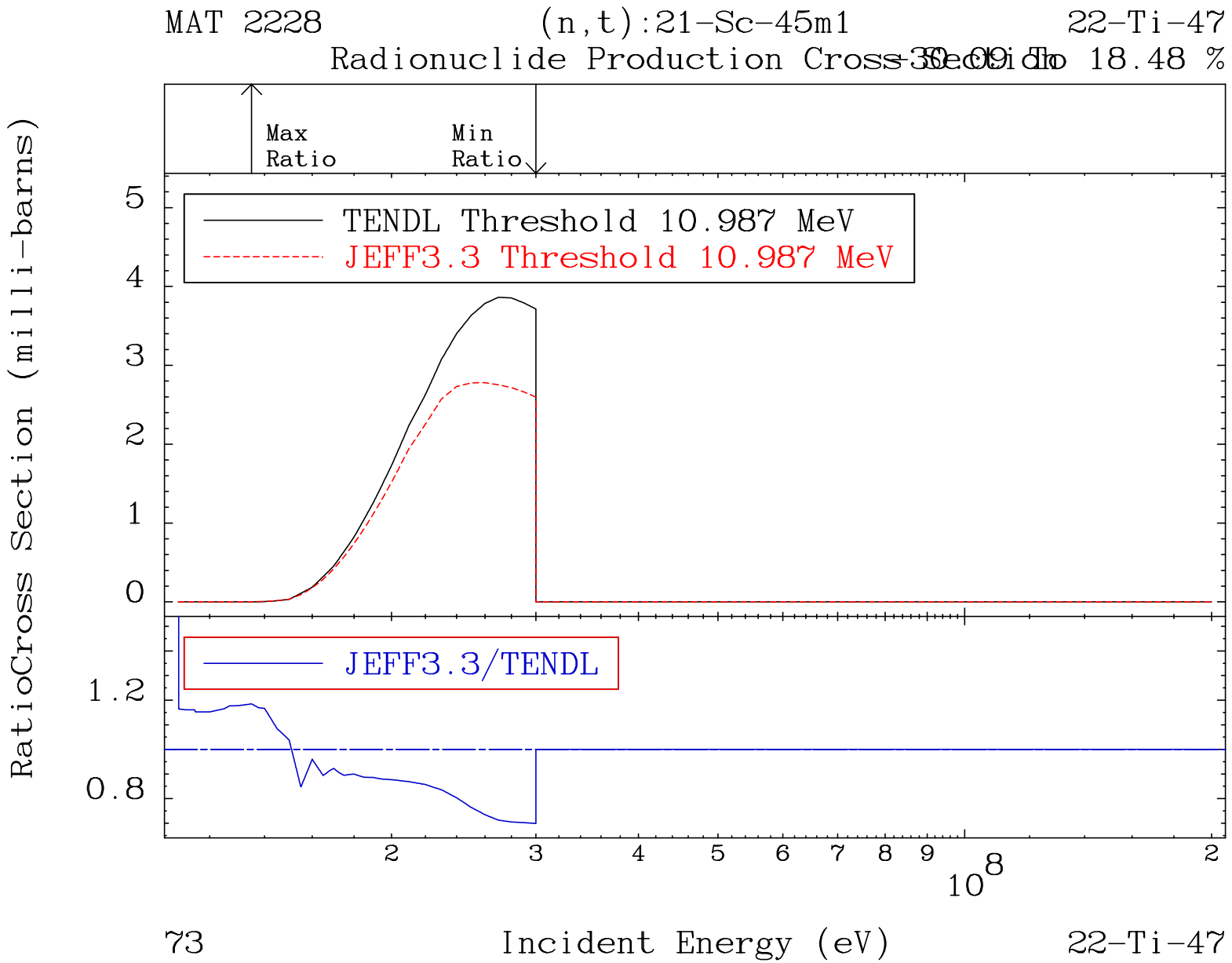

MAT 2228
(n,2n) p:21-Sc-45g
22-Ti-47
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 19.639 MeV
JEFF3.3 Threshold 19.639 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
68
Incident Energy (eV)
22-Ti-47


MAT 2228
(n,2n) p:21-Sc-45m1
22-Ti-47
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 19.651 MeV
JEFF3.3 Threshold 19.651 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
69
Incident Energy (eV)
22-Ti-47


MAT 2228
(n,d):21-Sc-46g
22-Ti-47
Radionuclide Production Cross-Section
Min
Ratio
TENDL Threshold 8.4174 MeV
JEFF3.3 Threshold 8.4174 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
22-Ti-47


MAT 2228
(n,d):21-Sc-46m2
22-Ti-47
Radionuclide Production Cross Section To 126.2 %
Min
Ratio
TENDL Threshold 8.5630 MeV
JEFF3.3 Threshold 8.5630 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
3.0
2.0
1.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
71
Incident Energy (eV)
22-Ti-47


MAT 2228
(n,t):21-Sc-45g
22-Ti-47
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 10.975 MeV
JEFF3.3 Threshold 10.975 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
72
22-Ti-47


MAT 2228
(n,t):21-Sc-45m1
22-Ti-47
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 10.987 MeV
JEFF3.3 Threshold 10.987 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
22-Ti-47