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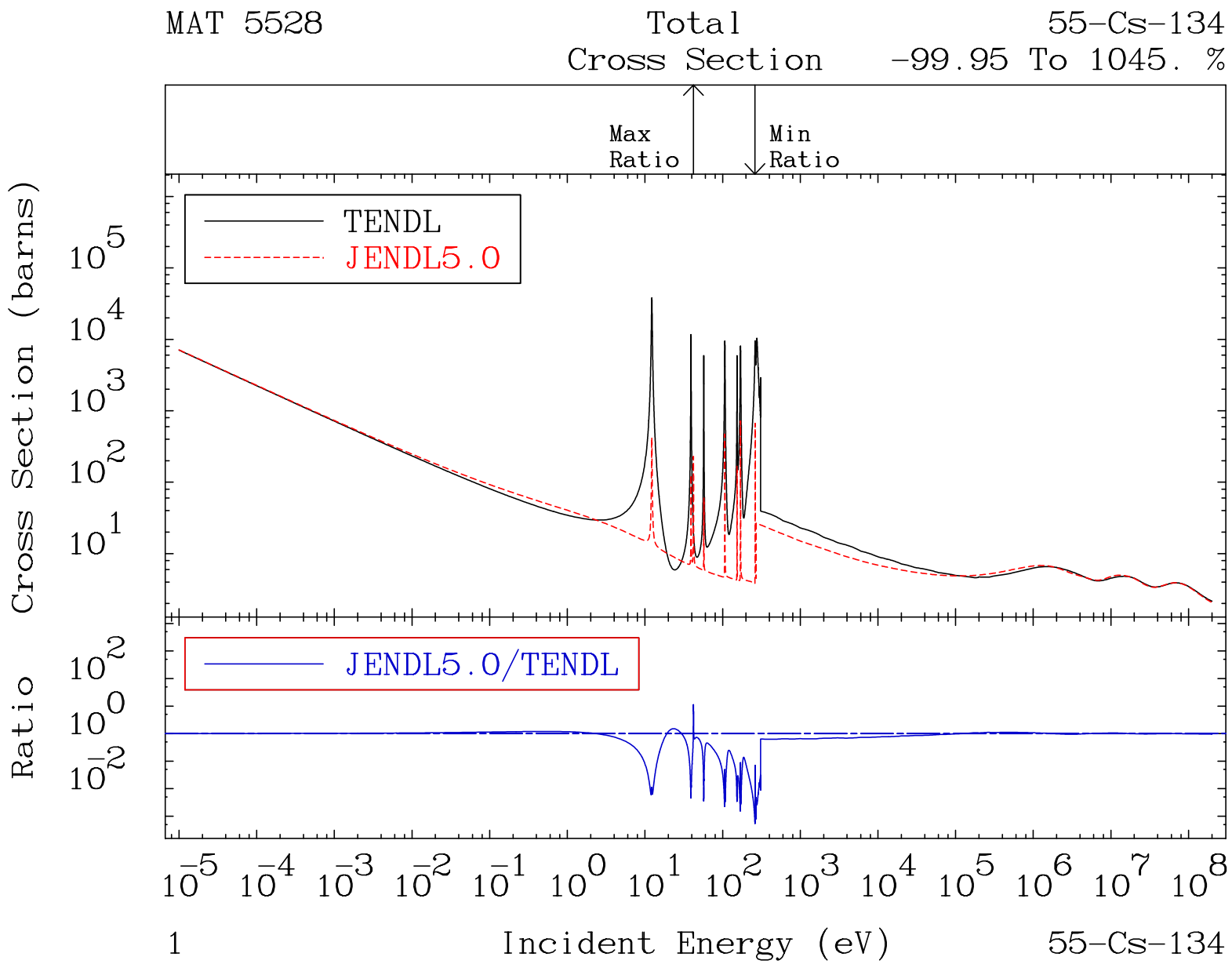
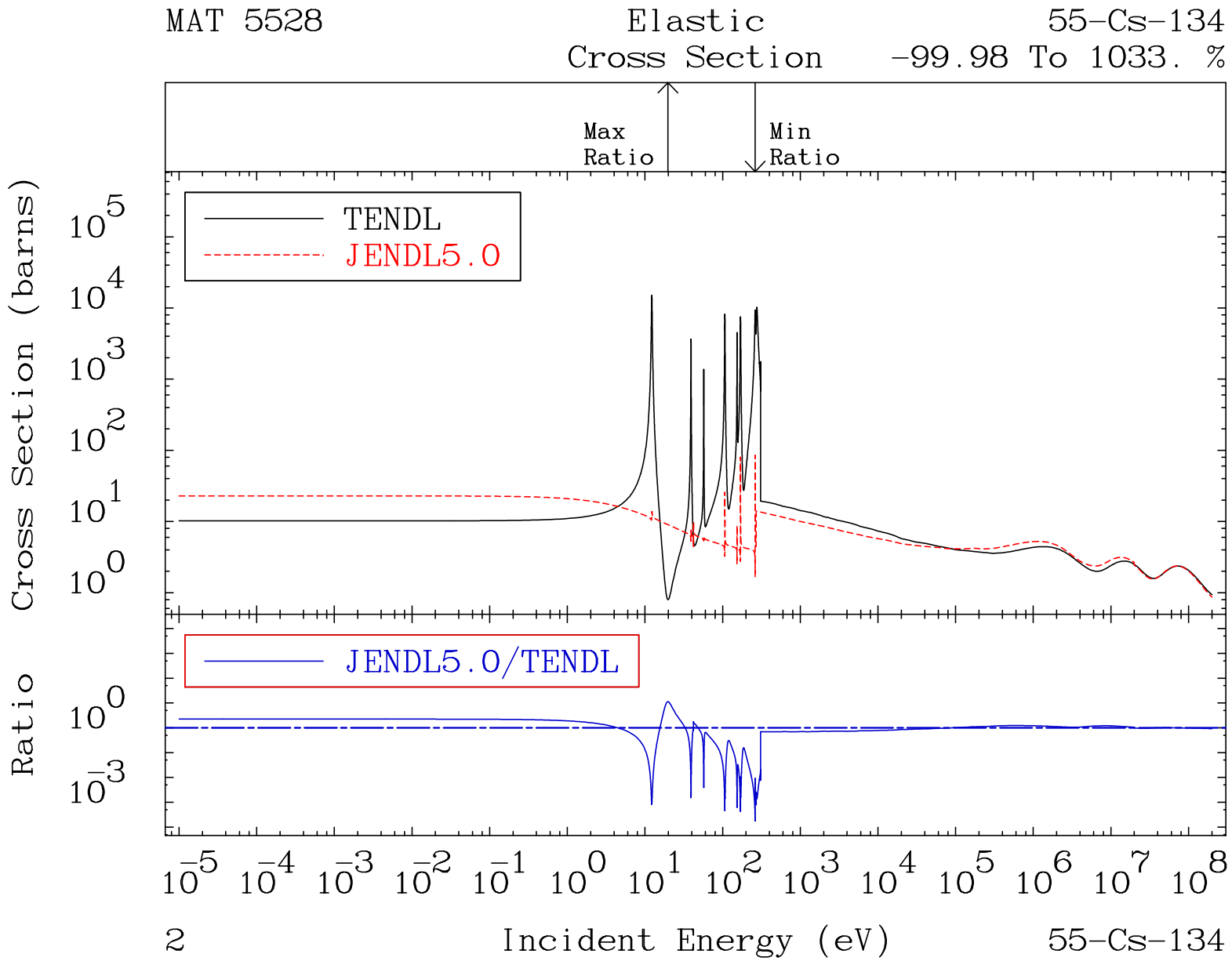
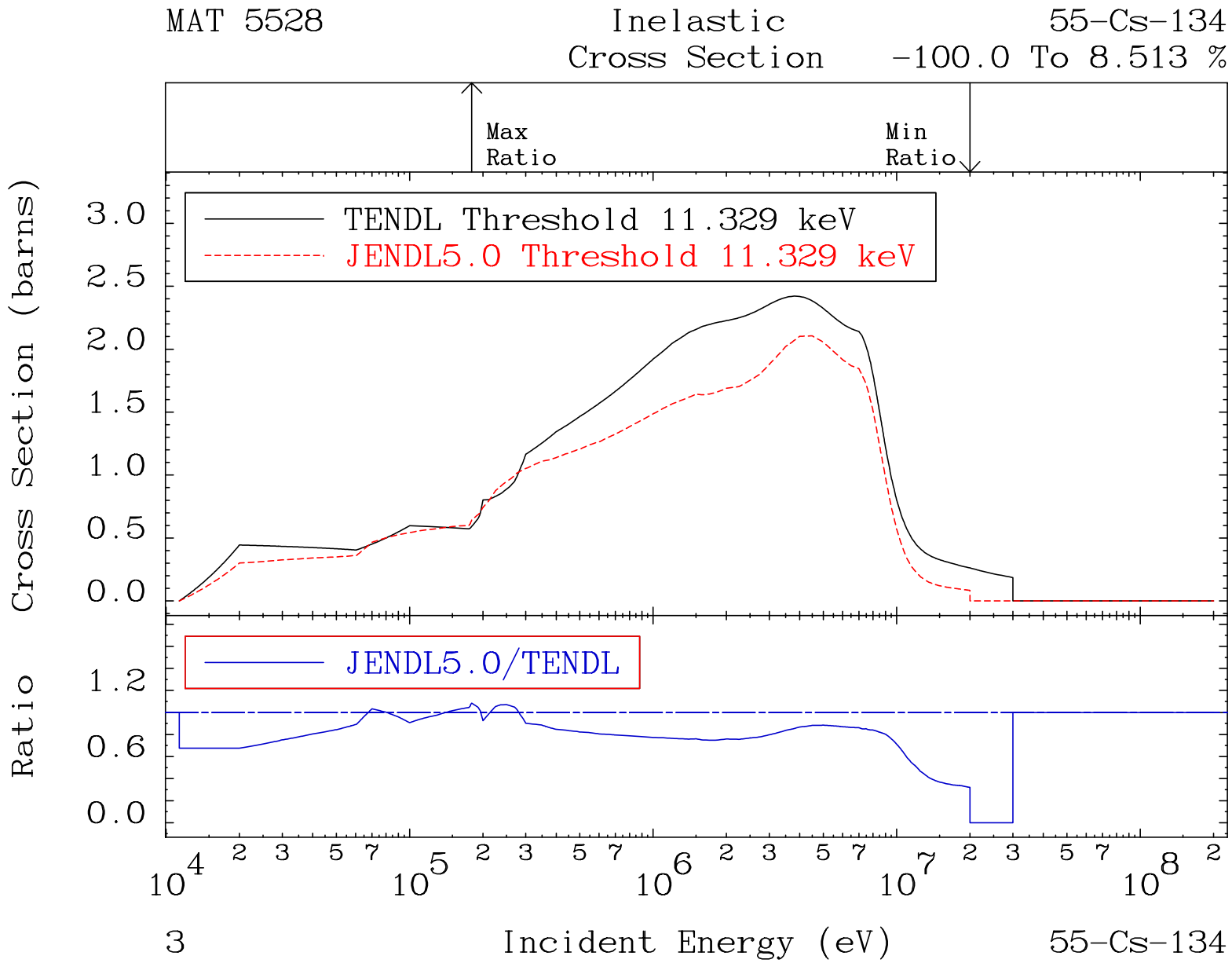
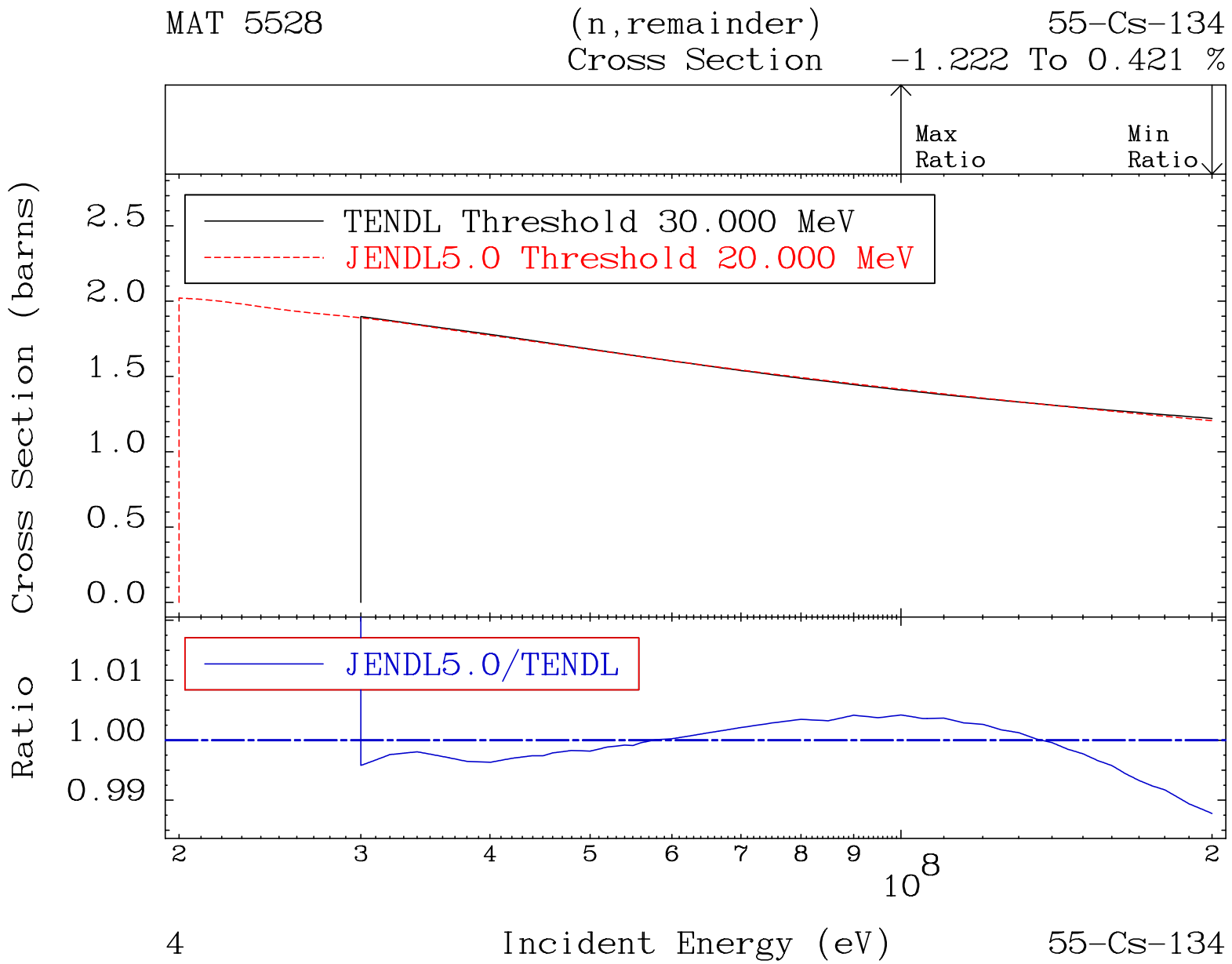
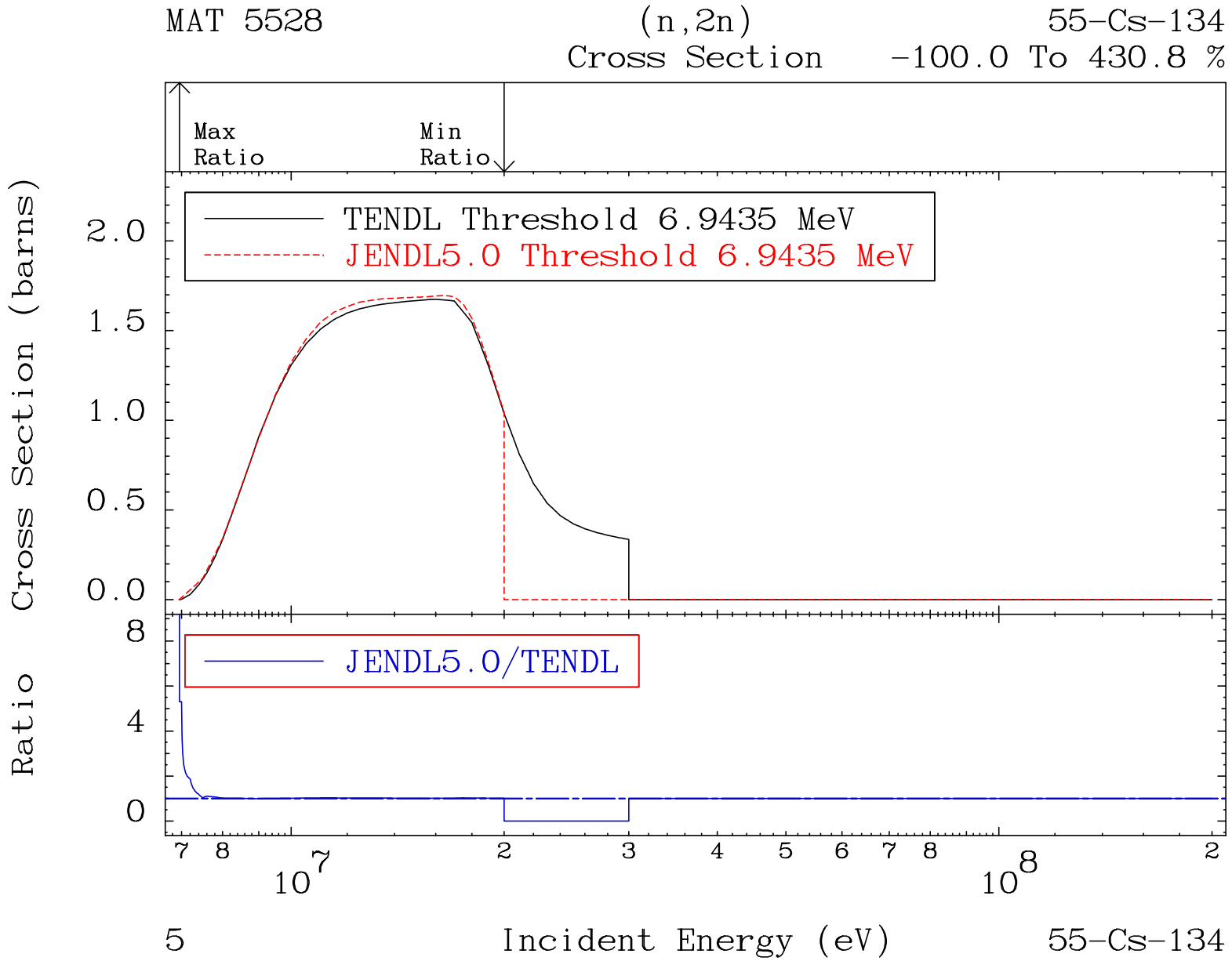
Press Mouse Button to Start

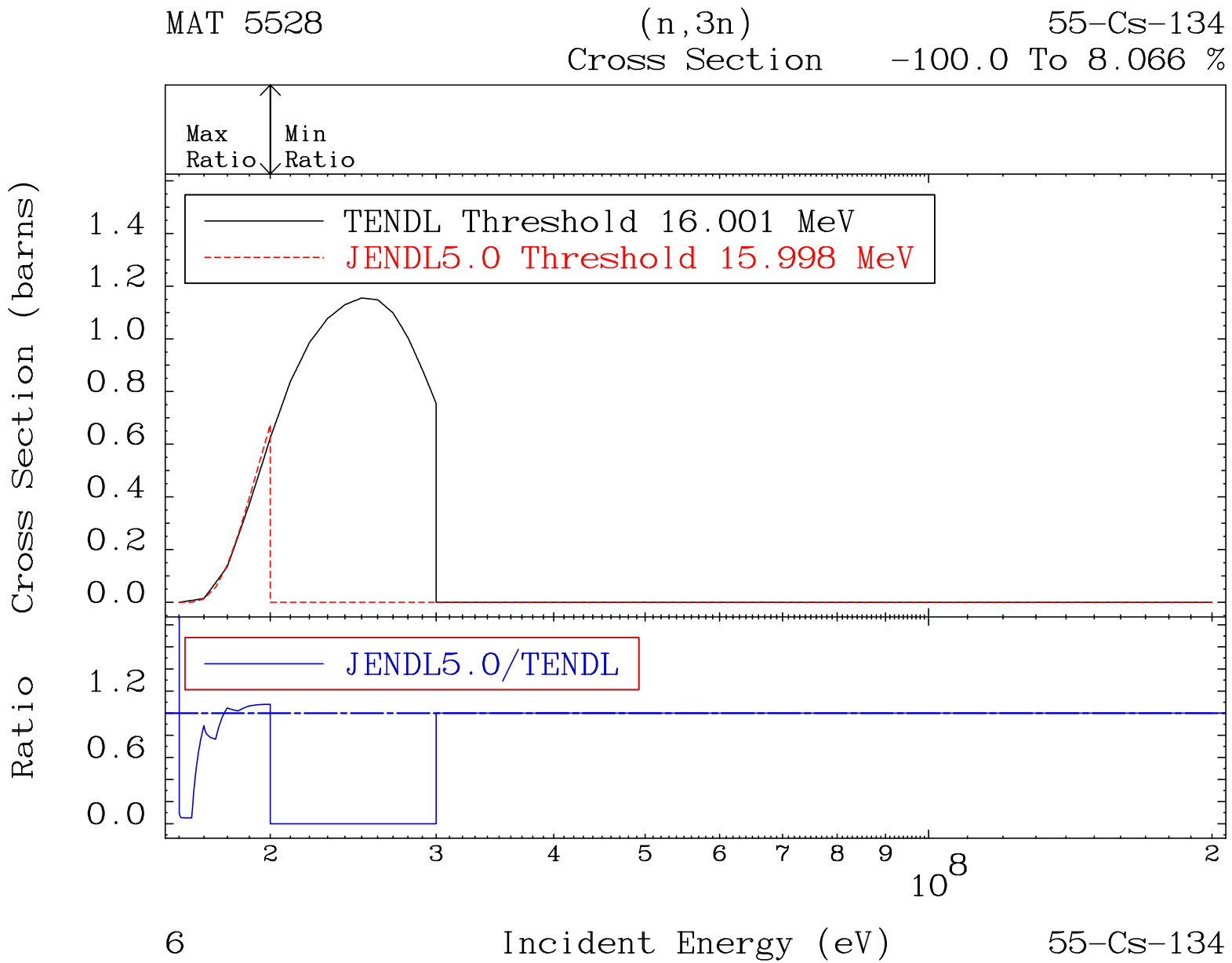

MAT 5528
Total
Cross Section
55-Cs-134
-99.95 To 1045. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
55-Cs-134

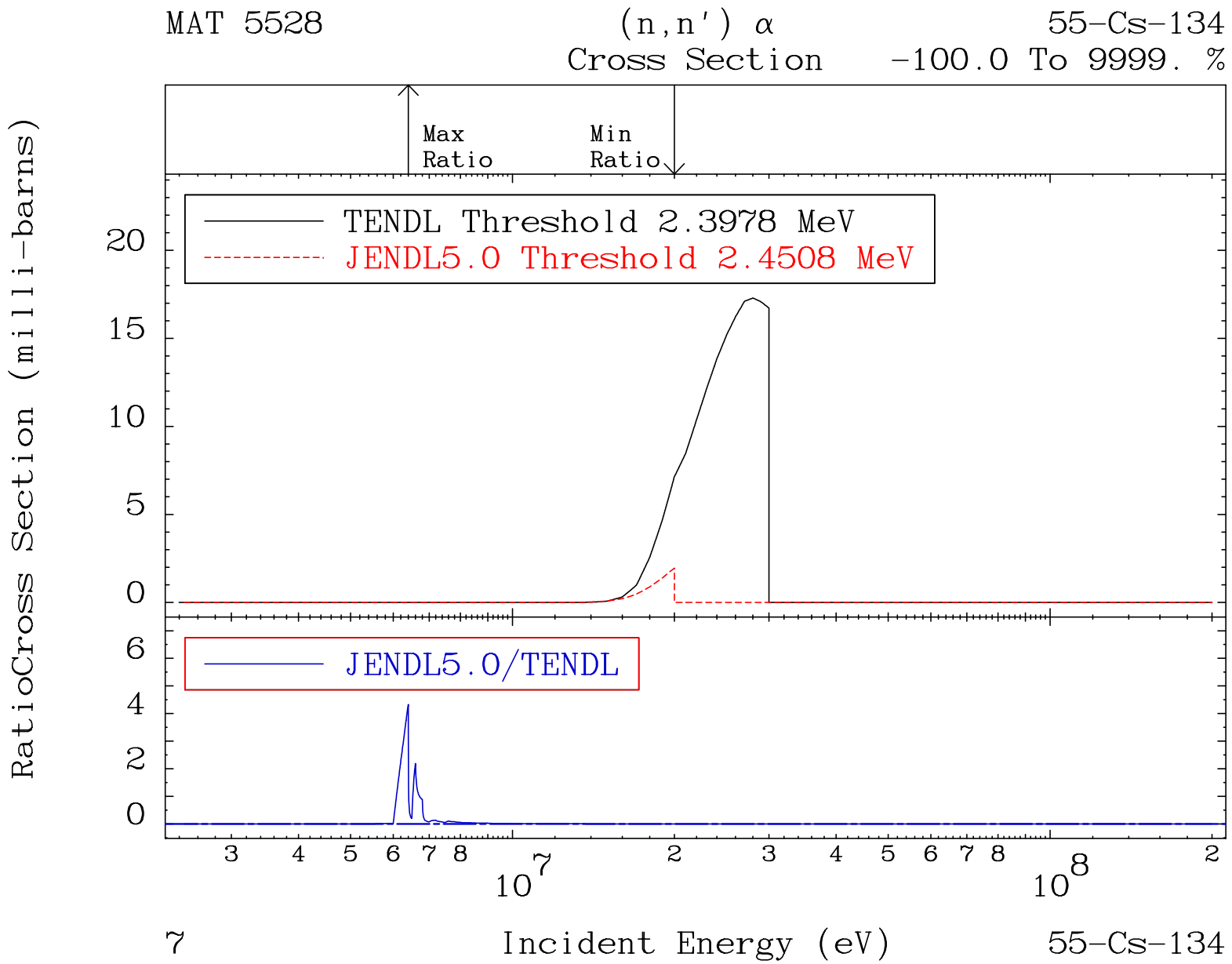

MAT 5528
Elastic
Cross Section
55-Cs-134
-99.98 To 1033. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
2
55-Cs-134

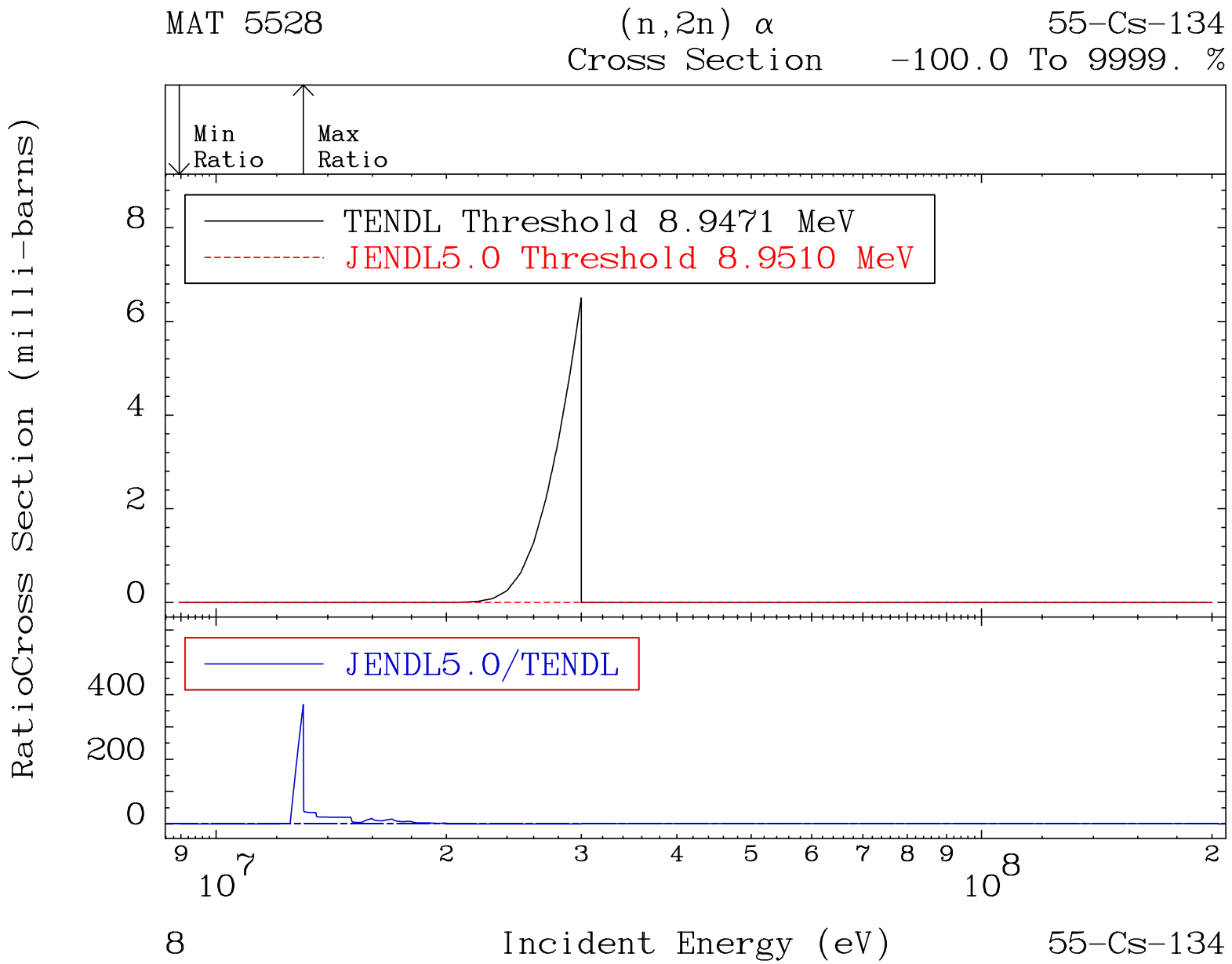

MAT 5528
Inelastic
Cross Section
55-Cs-134
-100.0 To 8.513 %
Max
Ratio
Min
Ratio
TENDL Threshold 11.329 keV
JENDL5.0 Threshold 11.329 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
3
55-Cs-134

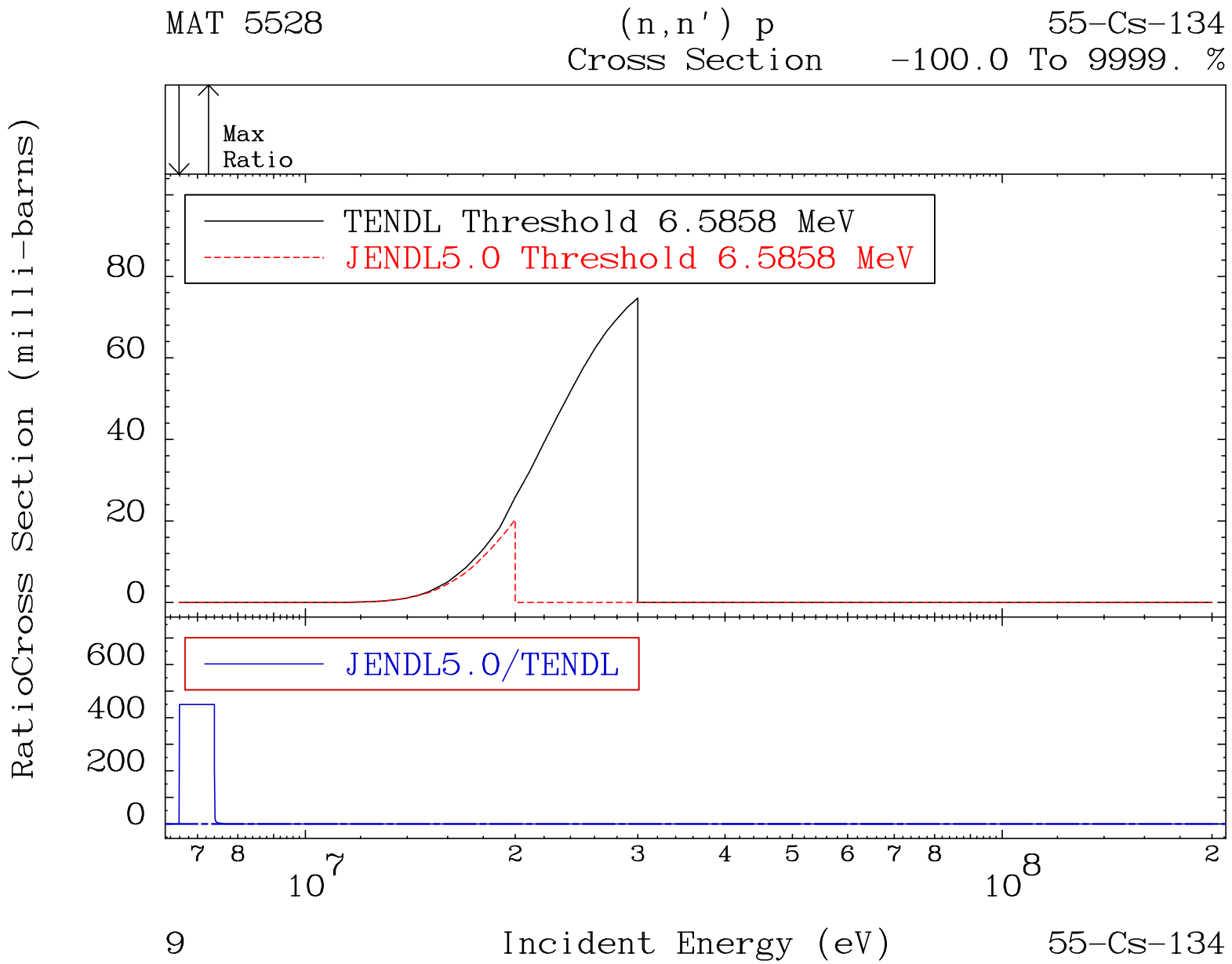

MAT 5528
(n,remainder)
Cross Section
55-Cs-134
-1.222 To 0.421 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JENDL5.0/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
55-Cs-134

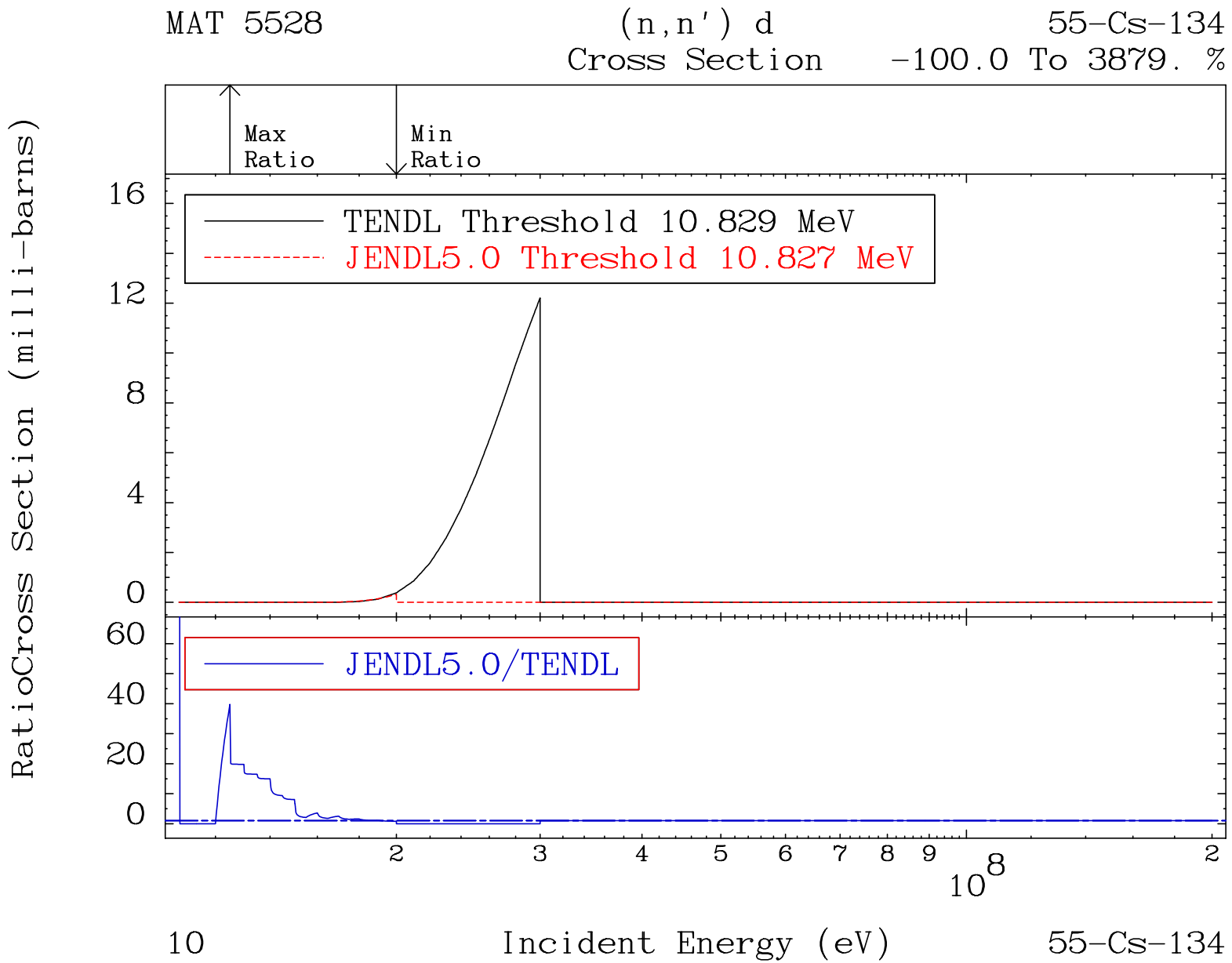

MAT 5528
(n,2n)
Cross Section
55-Cs-134
-100.0 To 430.8 %
Max Ratio
Min Ratio
TENDL Threshold 6.9435 MeV
JENDL5.0 Threshold 6.9435 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
8
4
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
5
55-Cs-134

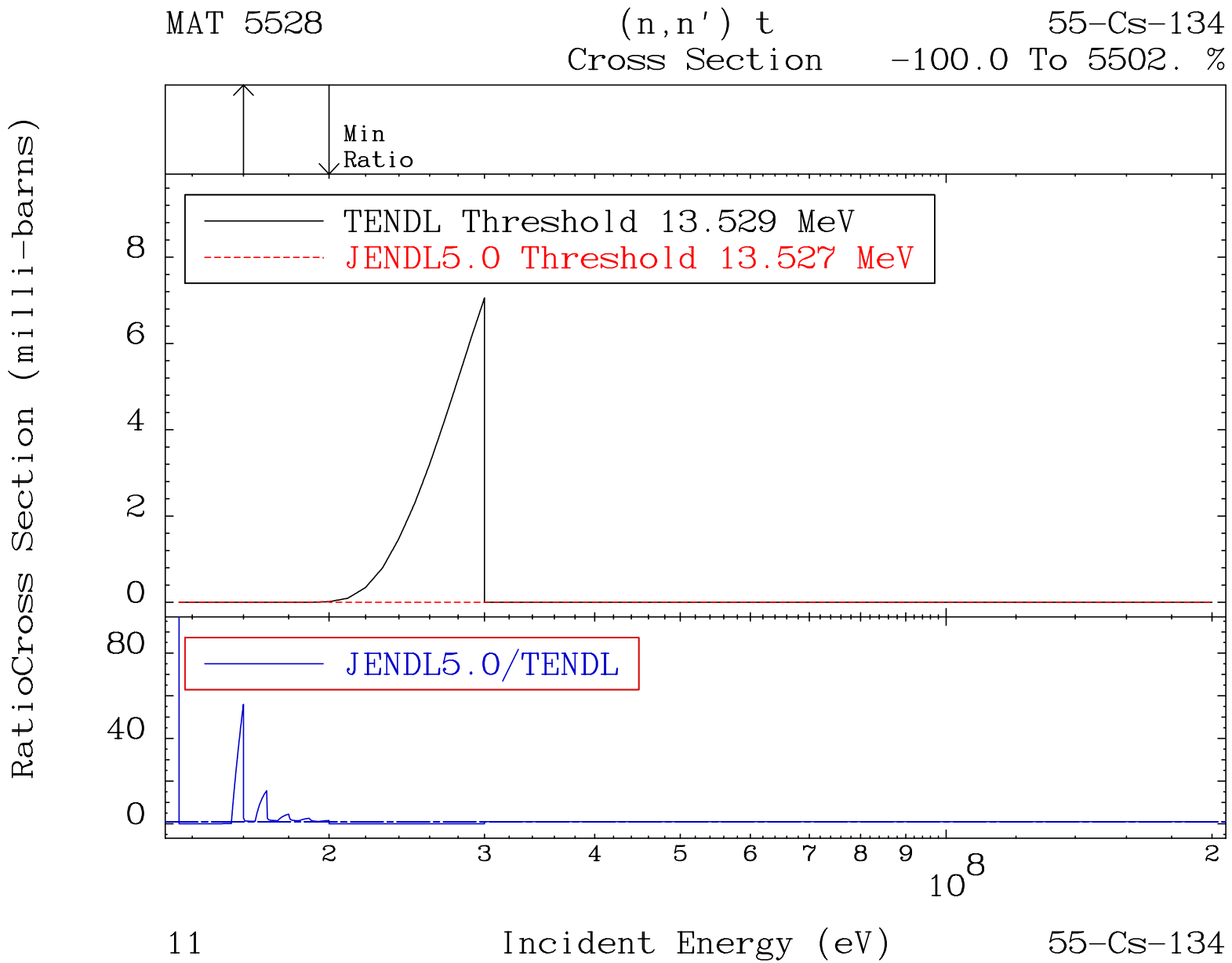

MAT 5528
(n,3n)
55-Cs-134
Cross Section
-100.0 To 8.066 %
Max Ratio
Min Ratio
TENDL Threshold 16.001 MeV
JENDL5.0 Threshold 15.998 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
55-Cs-134

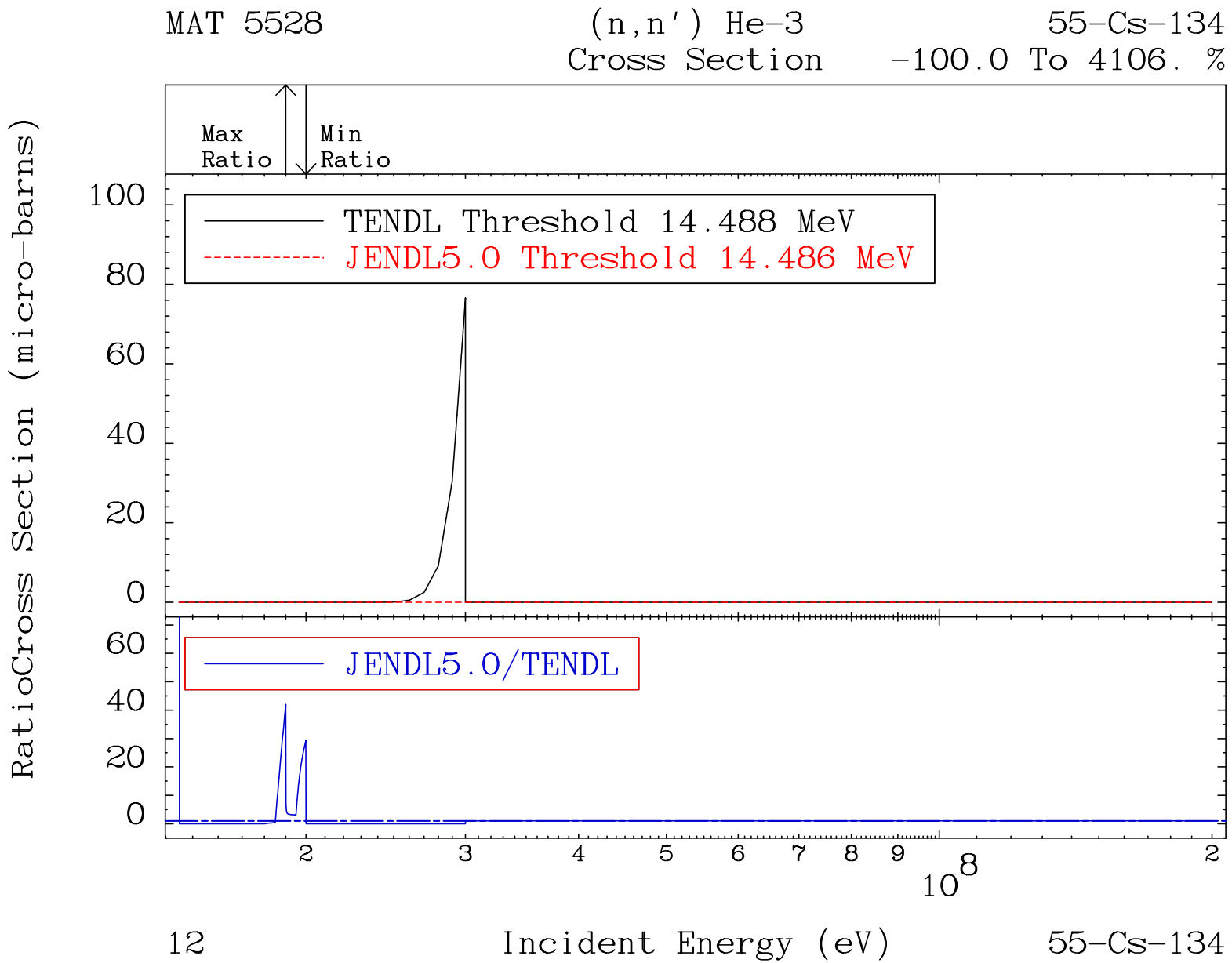

MAT 5528
(n,n') α
Cross Section
55-Cs-134
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3978 MeV
JENDL5.0 Threshold 2.4508 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
7
55-Cs-134

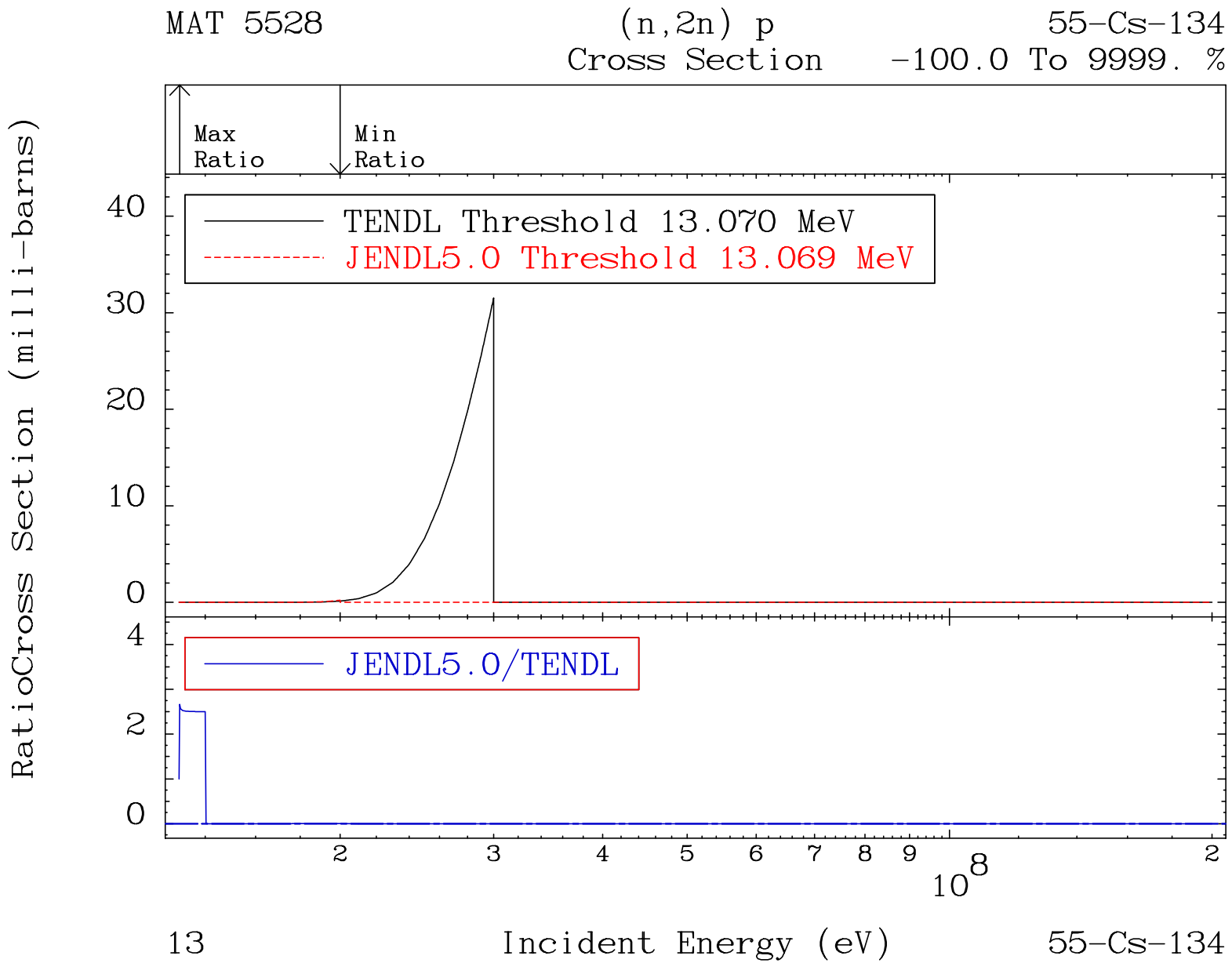

MAT 5528
(n,2n) α
55-Cs-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.9471 MeV
JENDL5.0 Threshold 8.9510 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
55-Cs-134
8

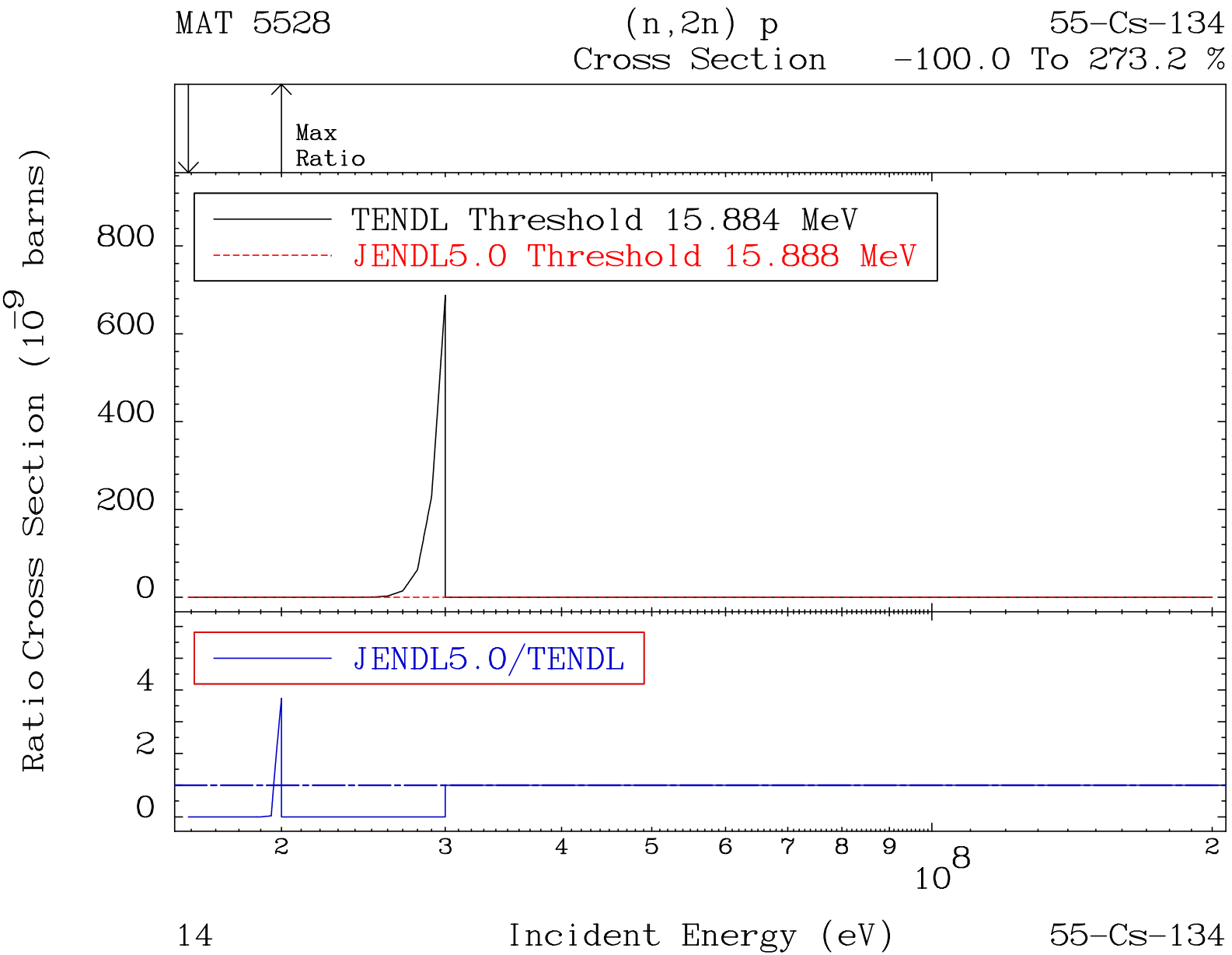

MAT 5528
(n,n') p
Cross Section
55-Cs-134
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.5858 MeV
JENDL5.0 Threshold 6.5858 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
600
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
55-Cs-134

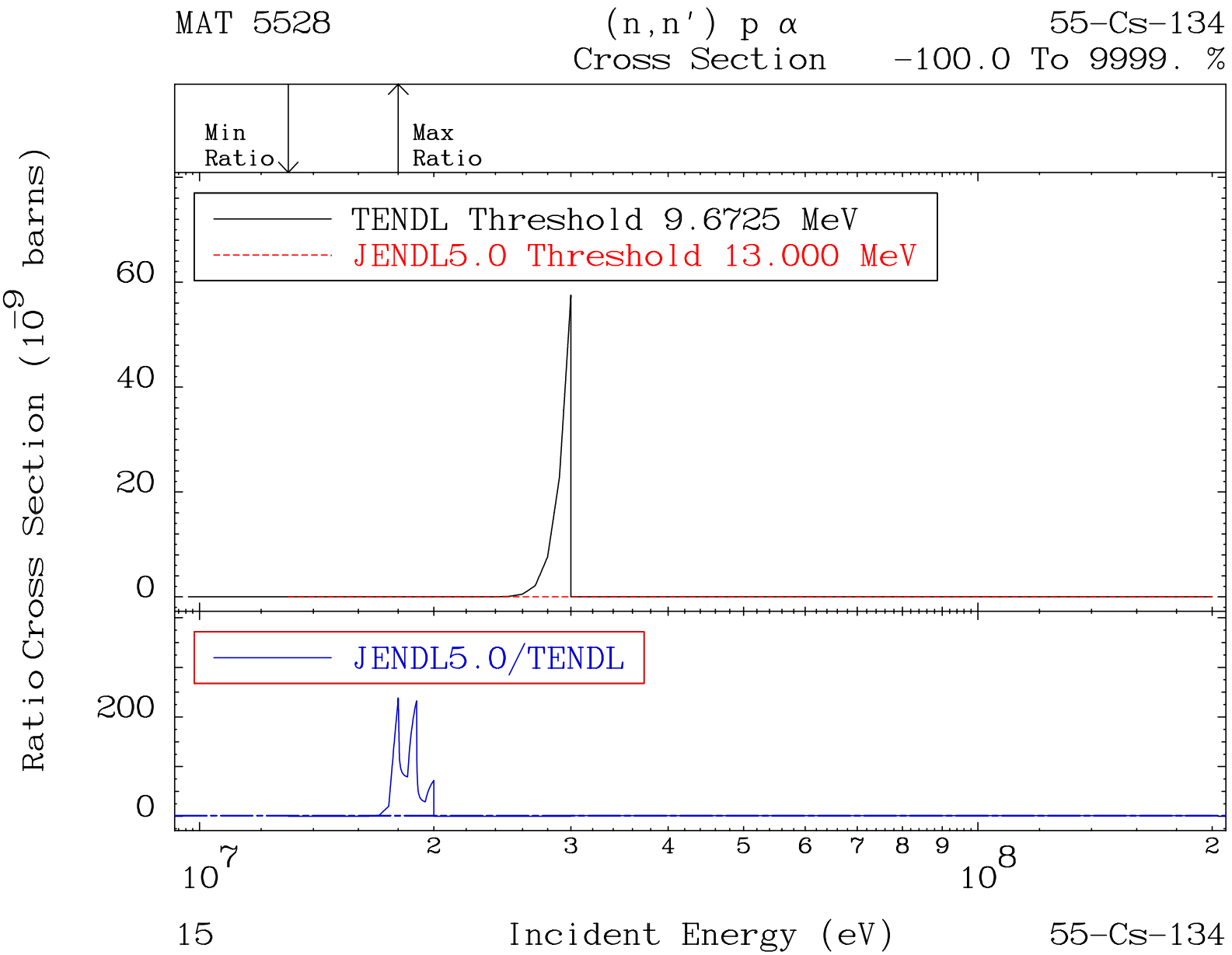

MAT 5528
(n,n') d
Cross Section
55-Cs-134
-100.0 To 3879. %
Max Ratio
Min Ratio
TENDL Threshold 10.829 MeV
JENDL5.0 Threshold 10.827 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
60
40
20
0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
55-Cs-134

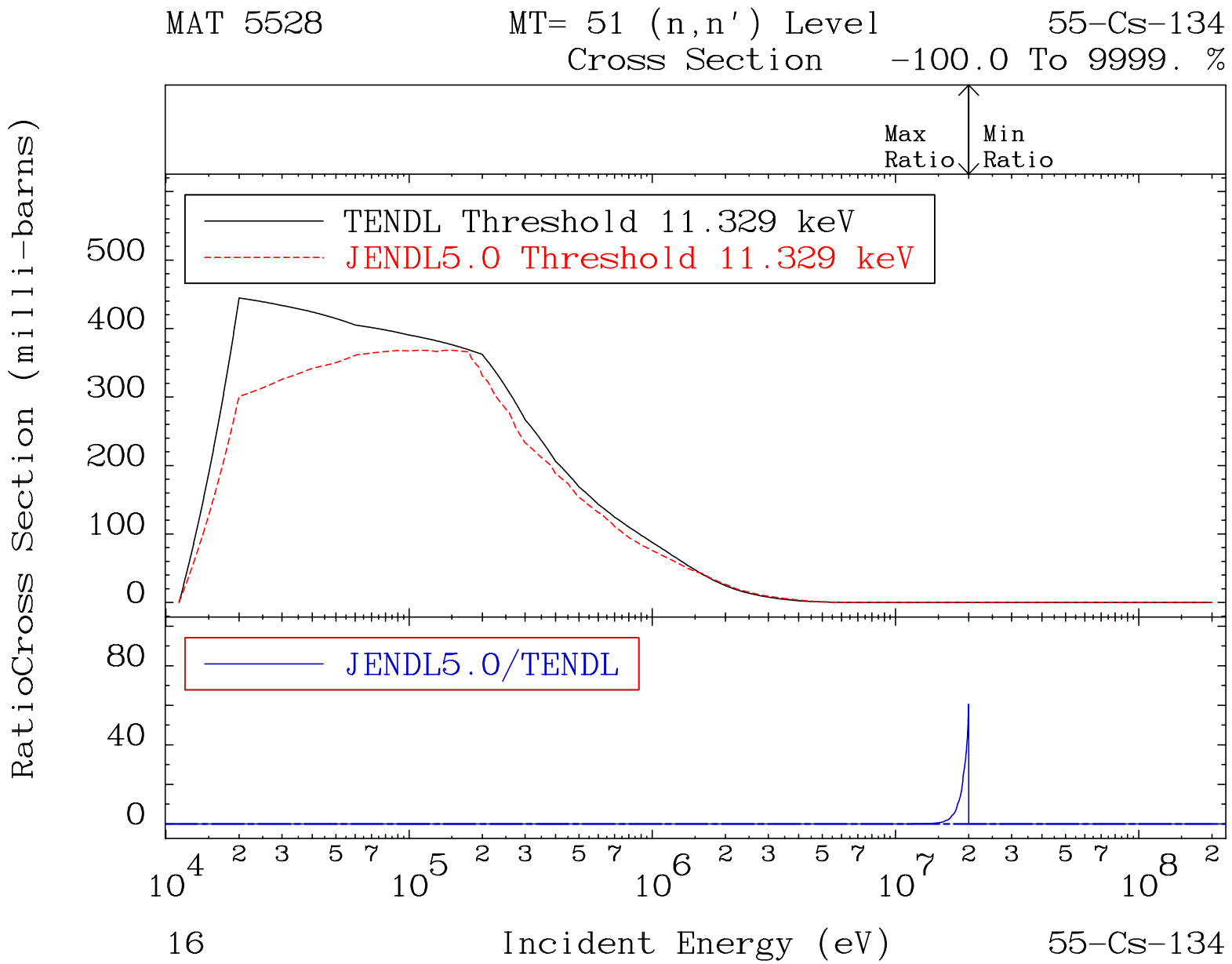

MAT 5528
(n,n') t
Cross Section
55-Cs-134
-100.0 To 5502. %
Min
Ratio
TENDL Threshold 13.529 MeV
JENDL5.0 Threshold 13.527 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
55-Cs-134

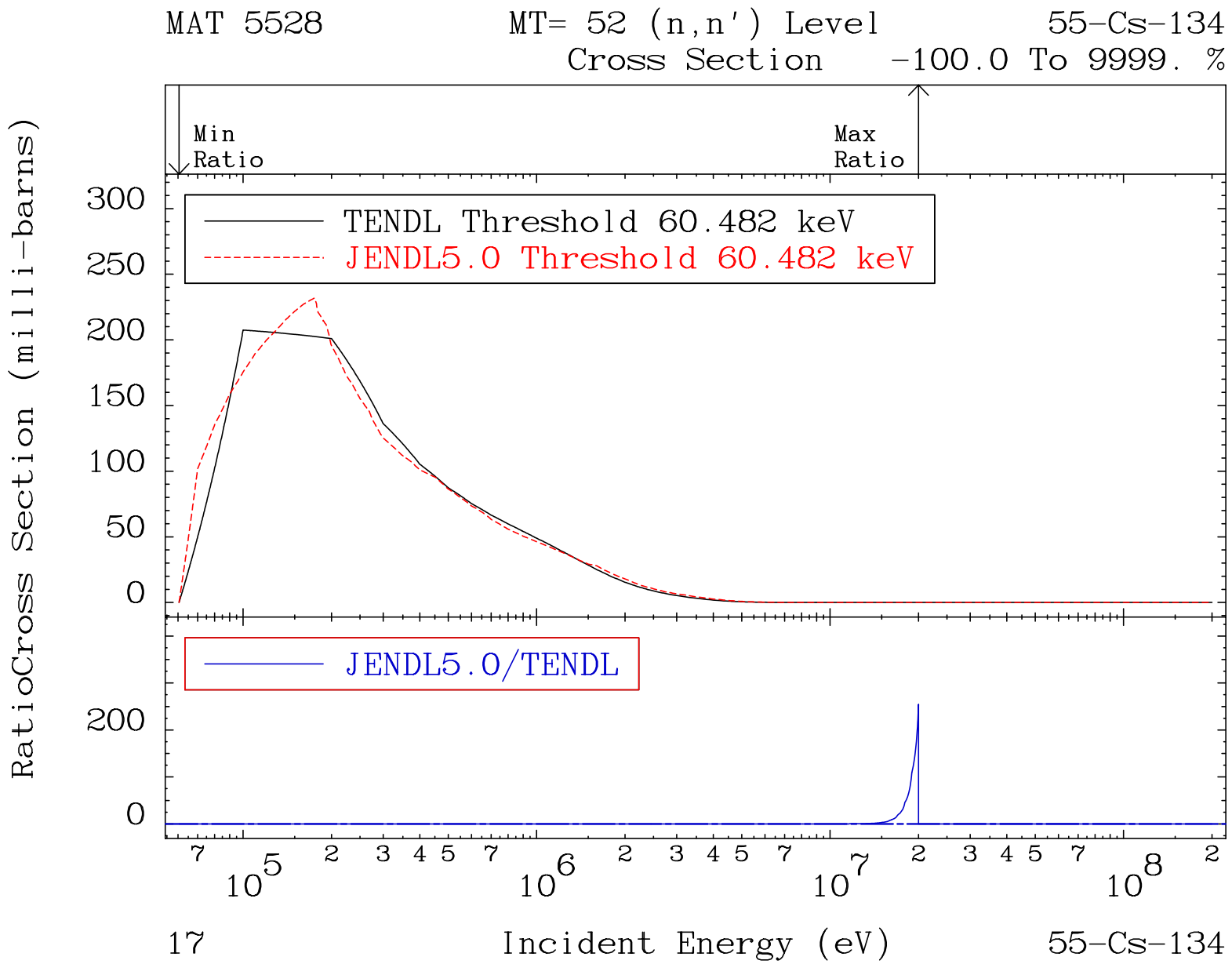

MAT 5528
(n,n') He-3
Cross Section
55-Cs-134
-100.0 To 4106. %
Max Ratio
Min Ratio
TENDL Threshold 14.488 MeV
JENDL5.0 Threshold 14.486 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
100
80
60
40
20
0
60
40
20
0
2
3
4
5
6
7
8
9
2
10^8
12
Incident Energy (eV)
55-Cs-134

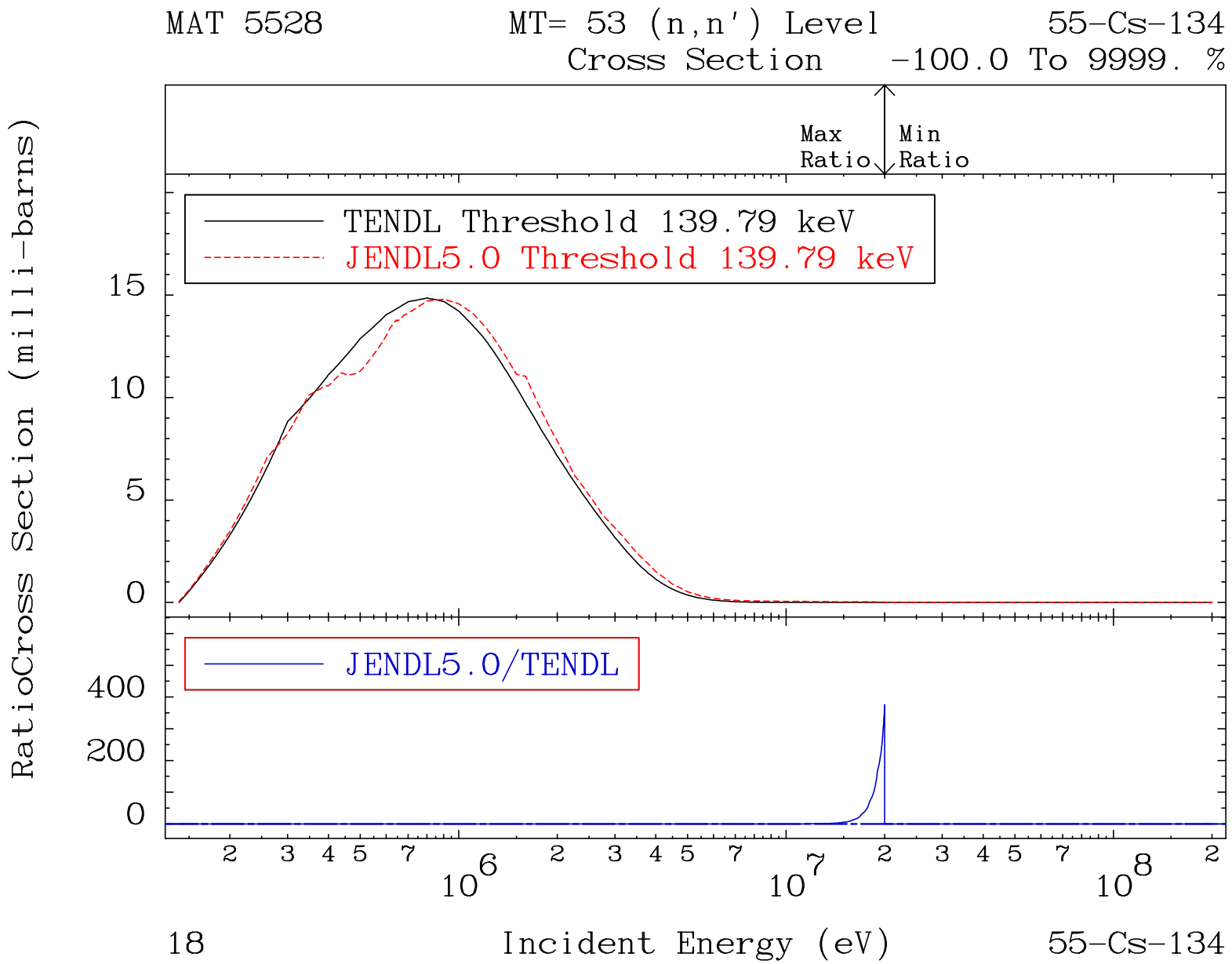

MAT 5528
(n,2n) p
Cross Section
55-Cs-134
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.070 MeV
JENDL5.0 Threshold 13.069 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
55-Cs-134

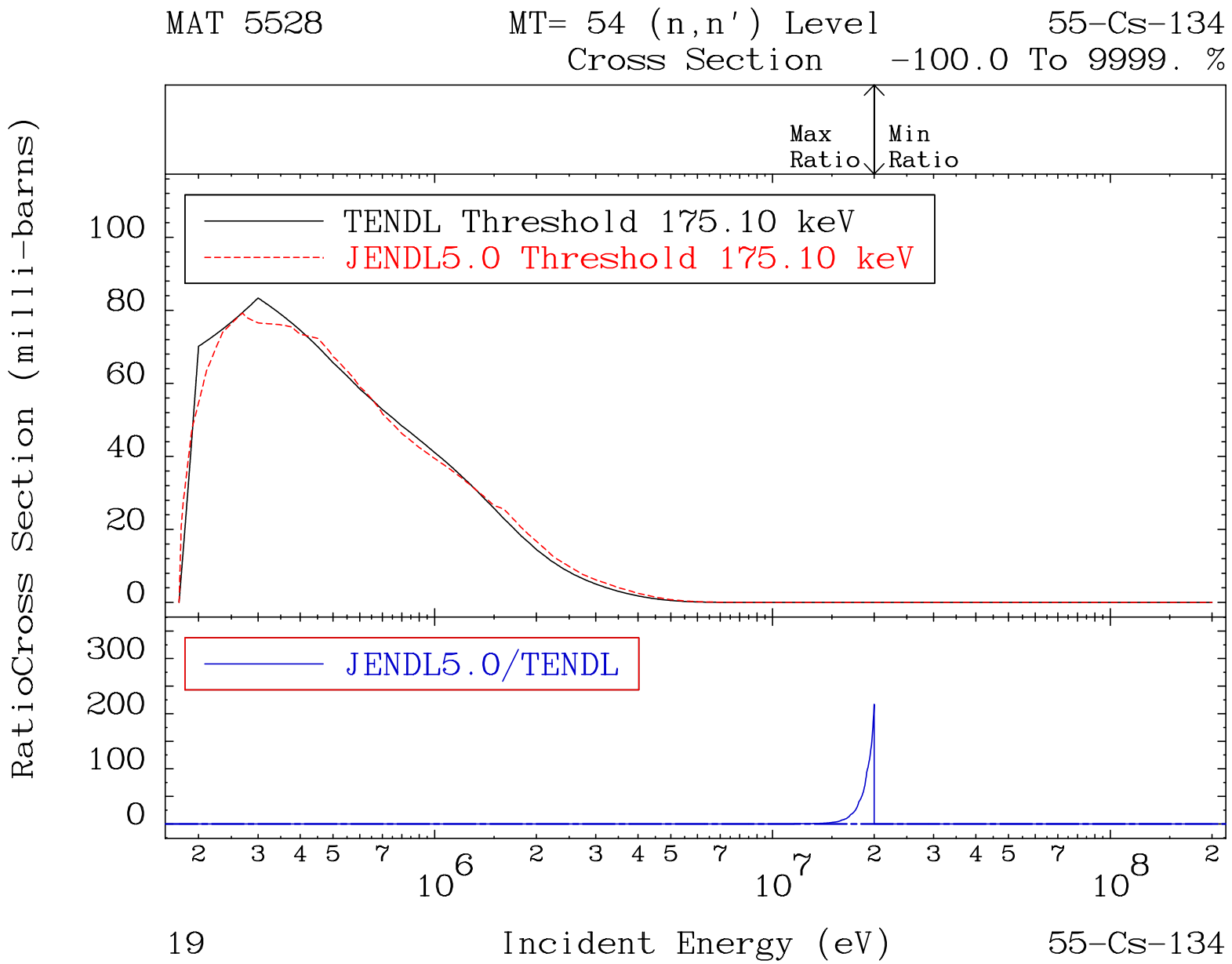

MAT 5528
(n,2n) p
55-Cs-134
Cross Section
-100.0 To 273.2 %
Max
Ratio
TENDL Threshold 15.884 MeV
JENDL5.0 Threshold 15.888 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^{-9} barns)
800
600
400
200
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
14
Incident Energy (eV)
55-Cs-134

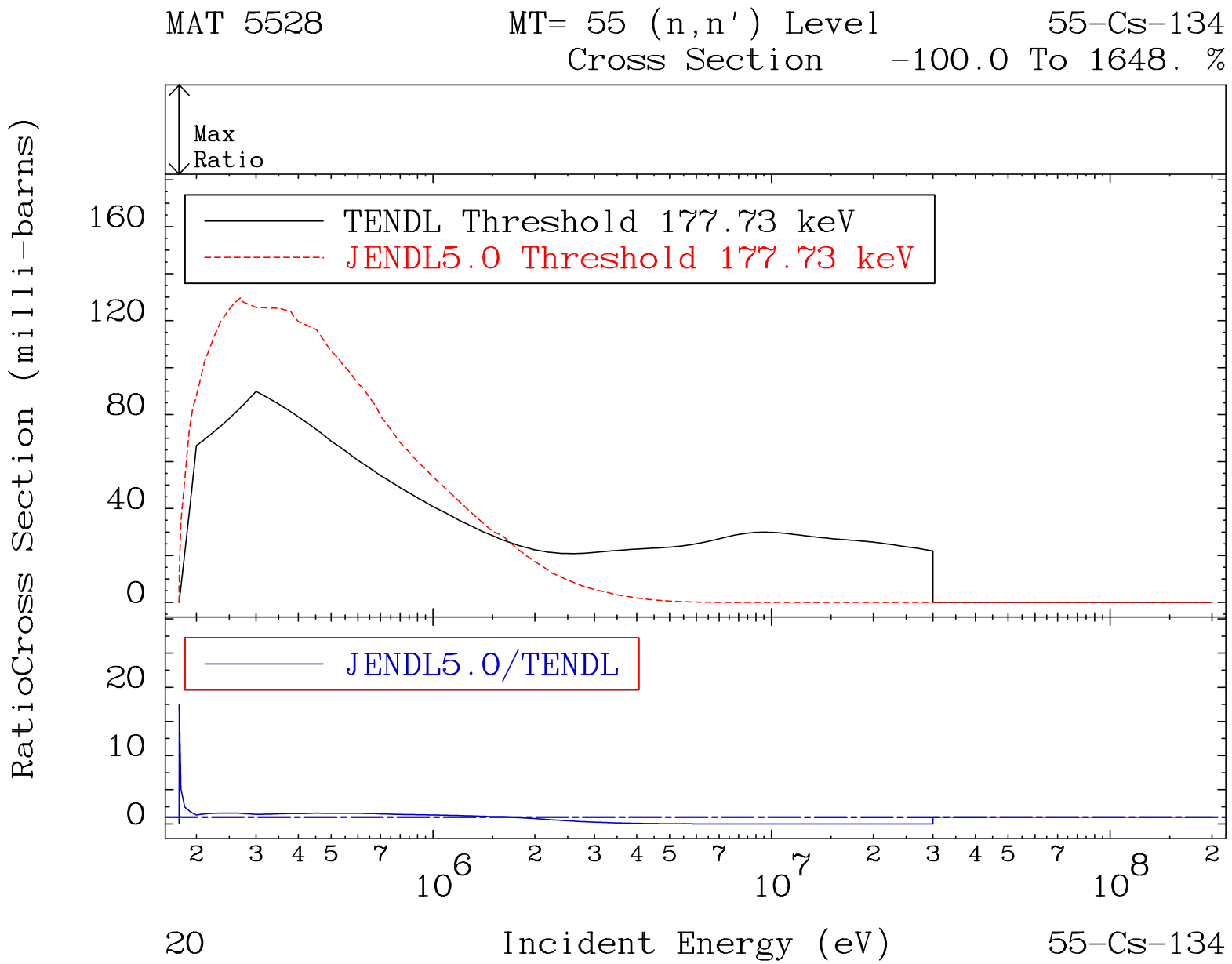

MAT 5528
(n,n') p α
55-Cs-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.6725 MeV
JENDL5.0 Threshold 13.000 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^-9 barns)
60
40
20
0
200
0
10^7
2
3
4
5
6
7
8
9
10^8
2
15
Incident Energy (eV)
55-Cs-134

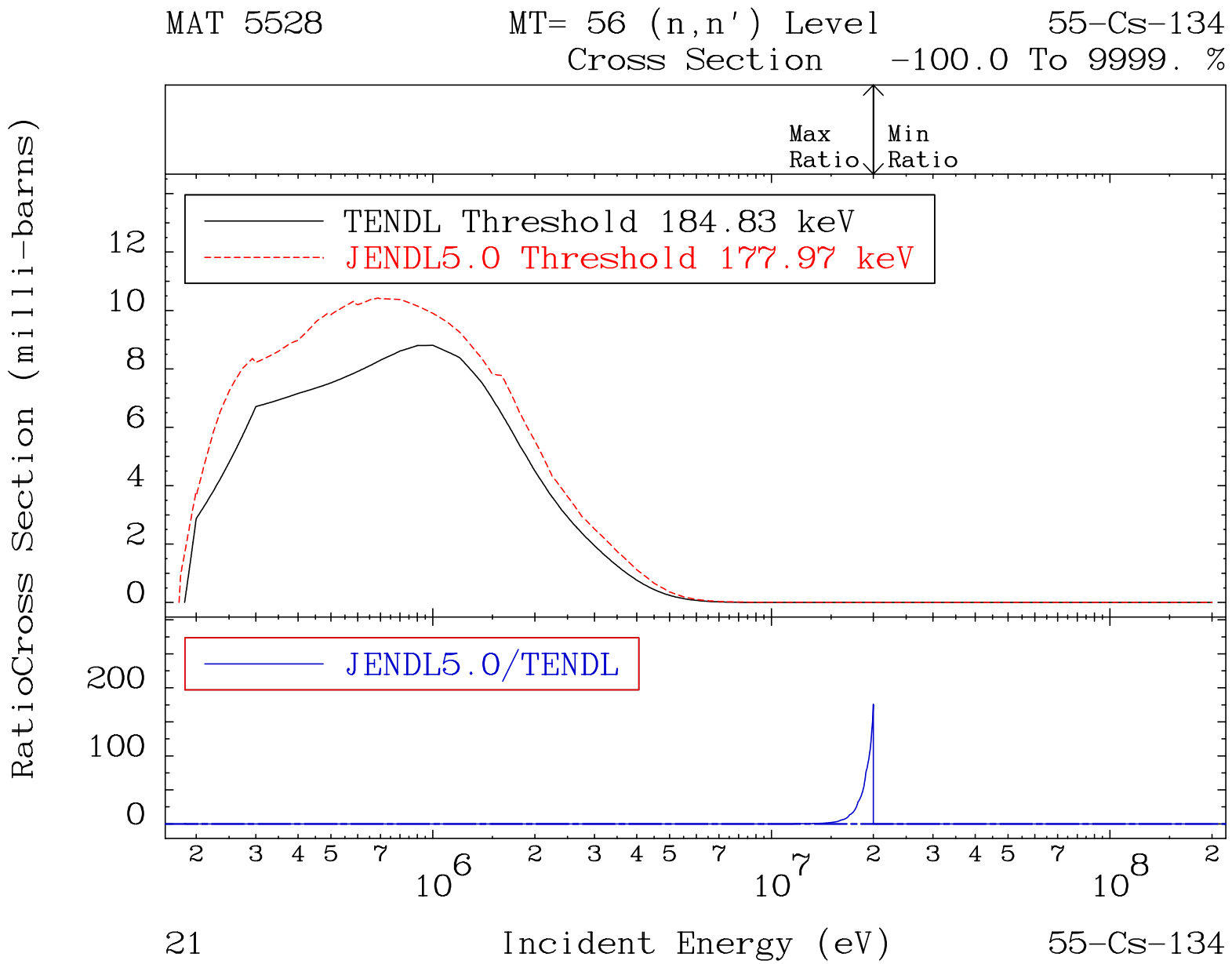

MAT 5528
MT= 51 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 11.329 keV
JENDL5.0 Threshold 11.329 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
80
40
0
10^4
10^5
10^6
10^7
10^8
Incident Energy (eV)
16
55-Cs-134

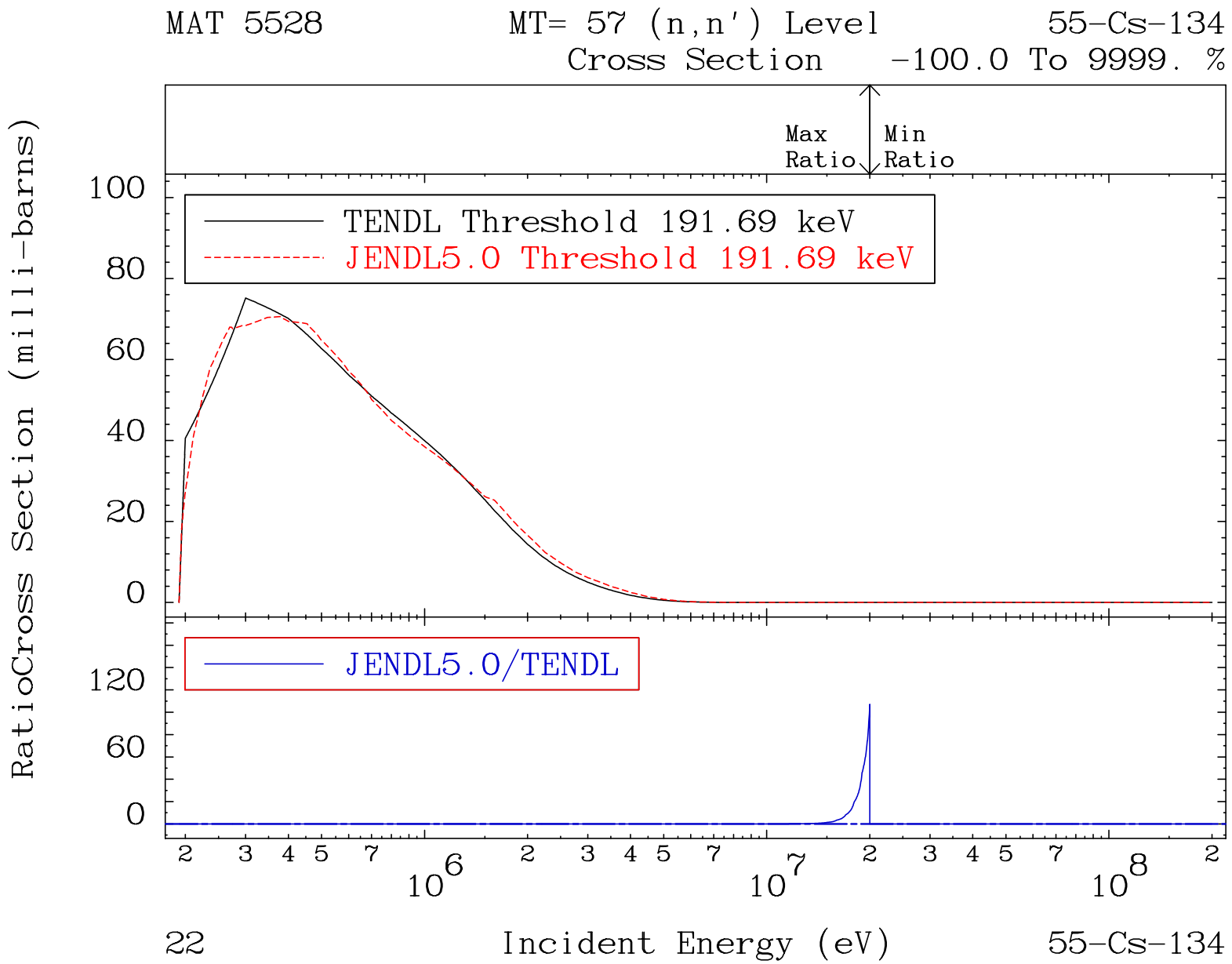

MAT 5528
MT= 52 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 60.482 keV
JENDL5.0 Threshold 60.482 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
200
0
7 2 3 4 5 7 2 3 4 5 7 2 3 4 5 7 2
10^5 10^6 10^7 10^8
17
Incident Energy (eV)
55-Cs-134

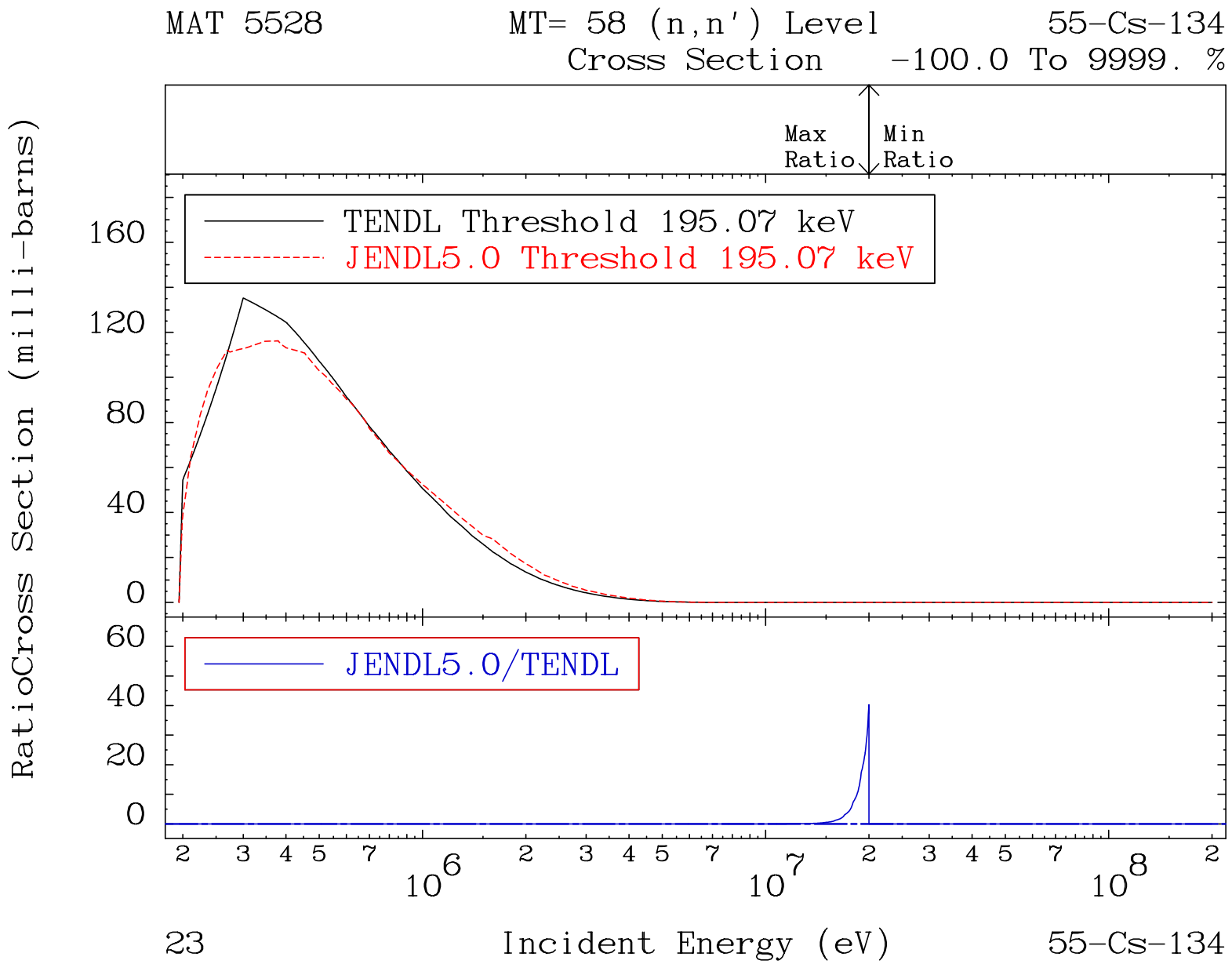

MAT 5528
MT= 53 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 139.79 keV
JENDL5.0 Threshold 139.79 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
400
200
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
18
Incident Energy (eV)
55-Cs-134

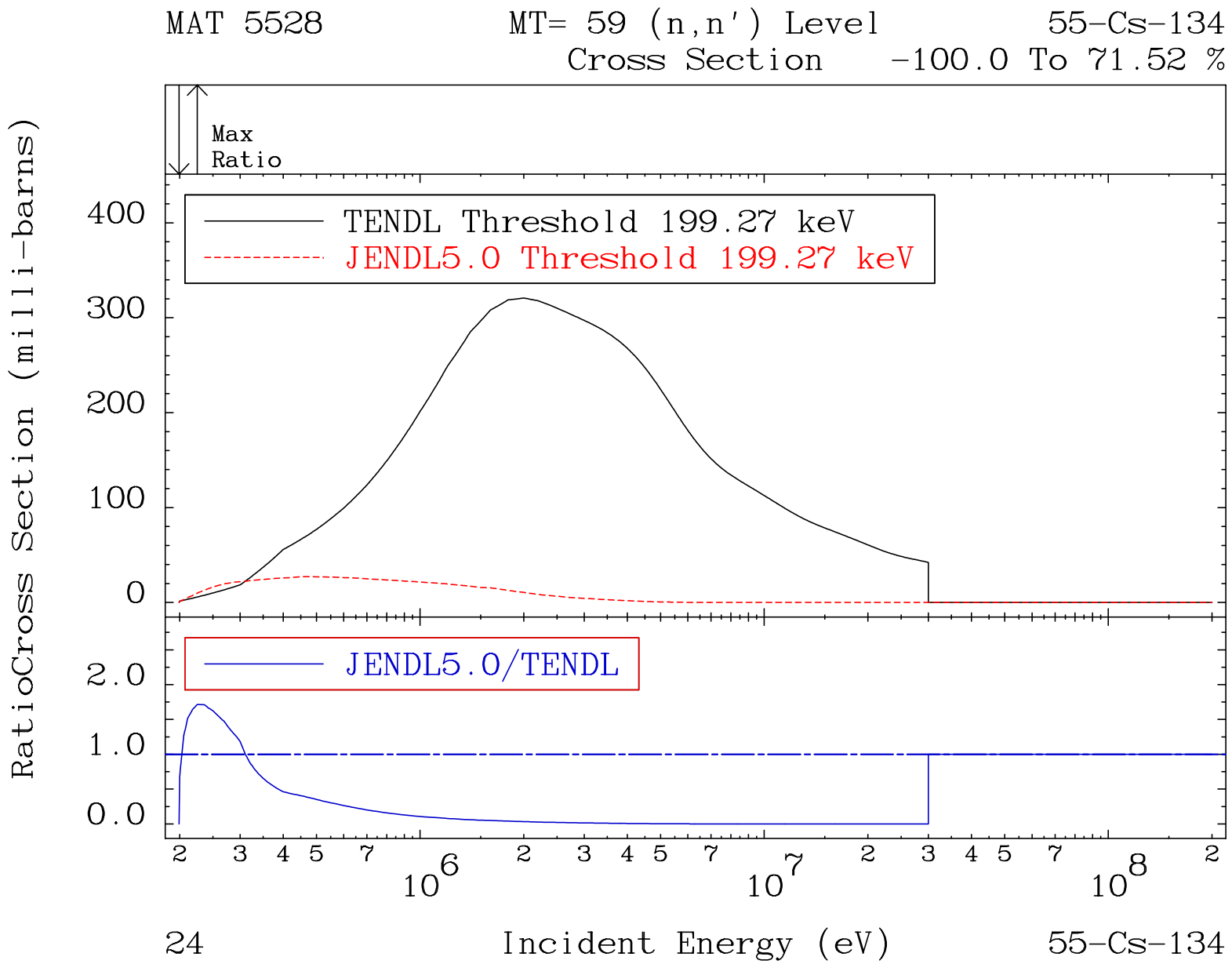

MAT 5528
MT= 54 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 175.10 keV
JENDL5.0 Threshold 175.10 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
300
200
100
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
19
Incident Energy (eV)
55-Cs-134

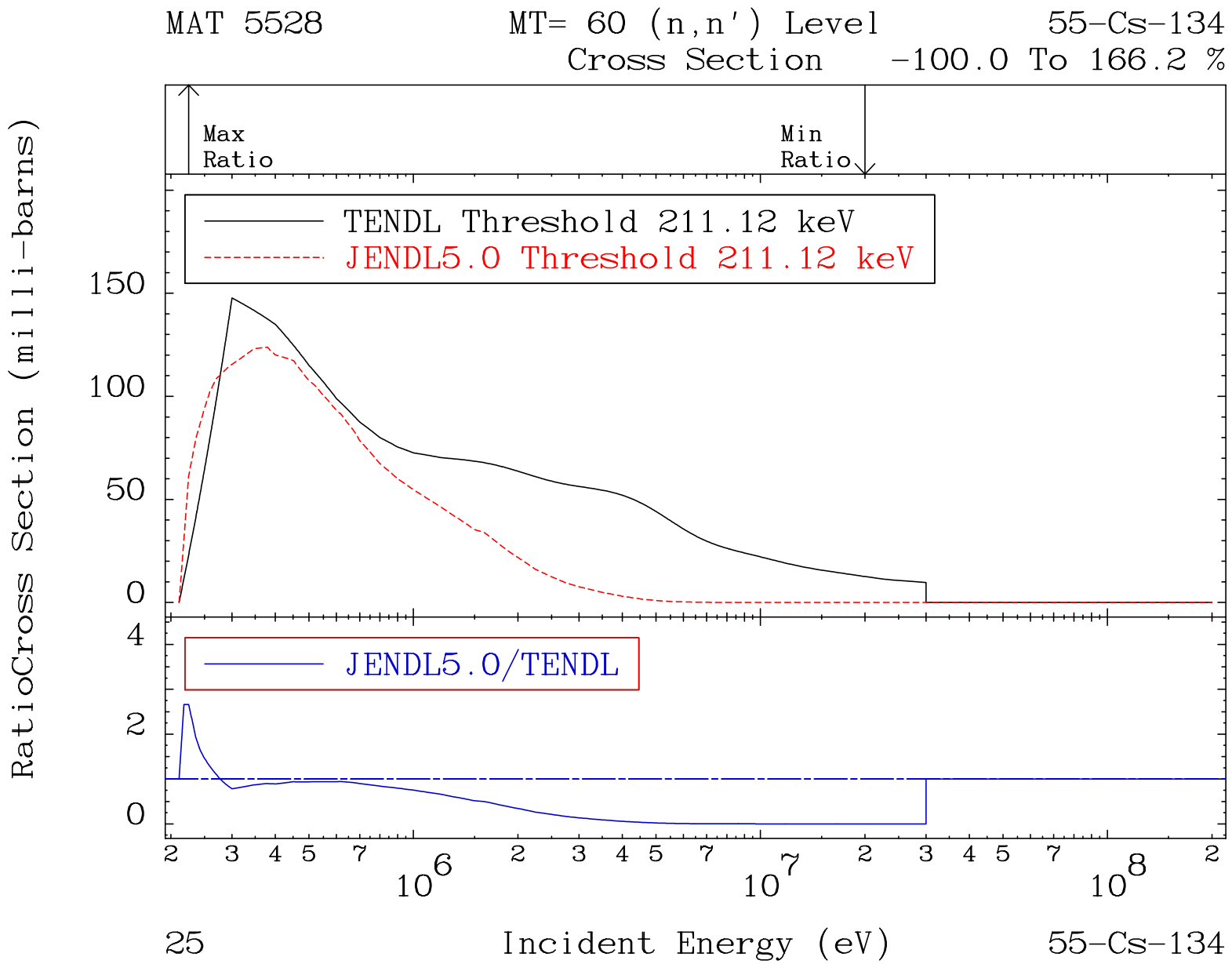

MAT 5528
MT= 55 (n,n') Level
55-Cs-134
Cross Section -100.0 To 1648. %
Max
Ratio
TENDL Threshold 177.73 keV
JENDL5.0 Threshold 177.73 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
20
10
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
20
Incident Energy (eV)
55-Cs-134

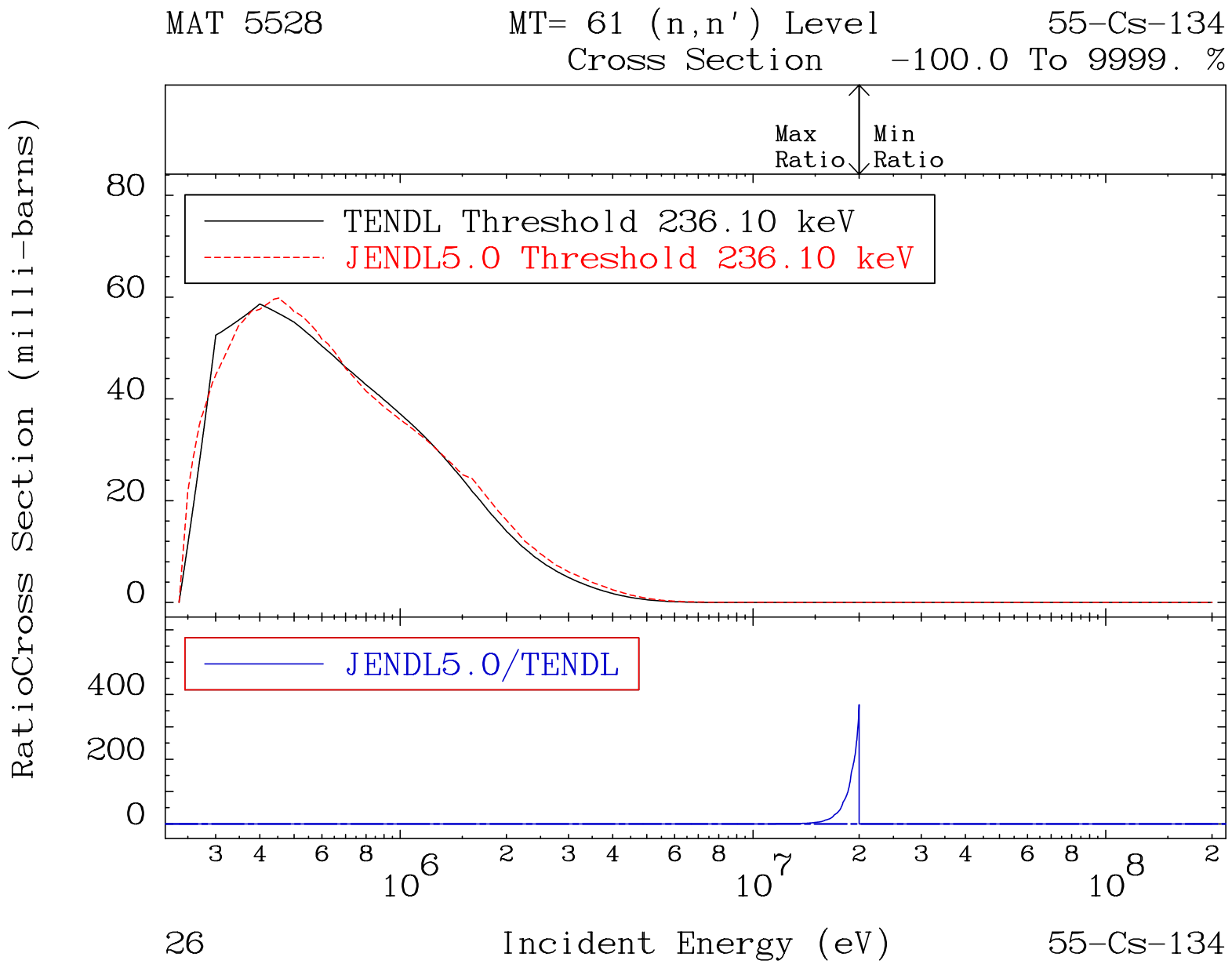

MAT 5528
MT= 56 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 184.83 keV
JENDL5.0 Threshold 177.97 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
55-Cs-134

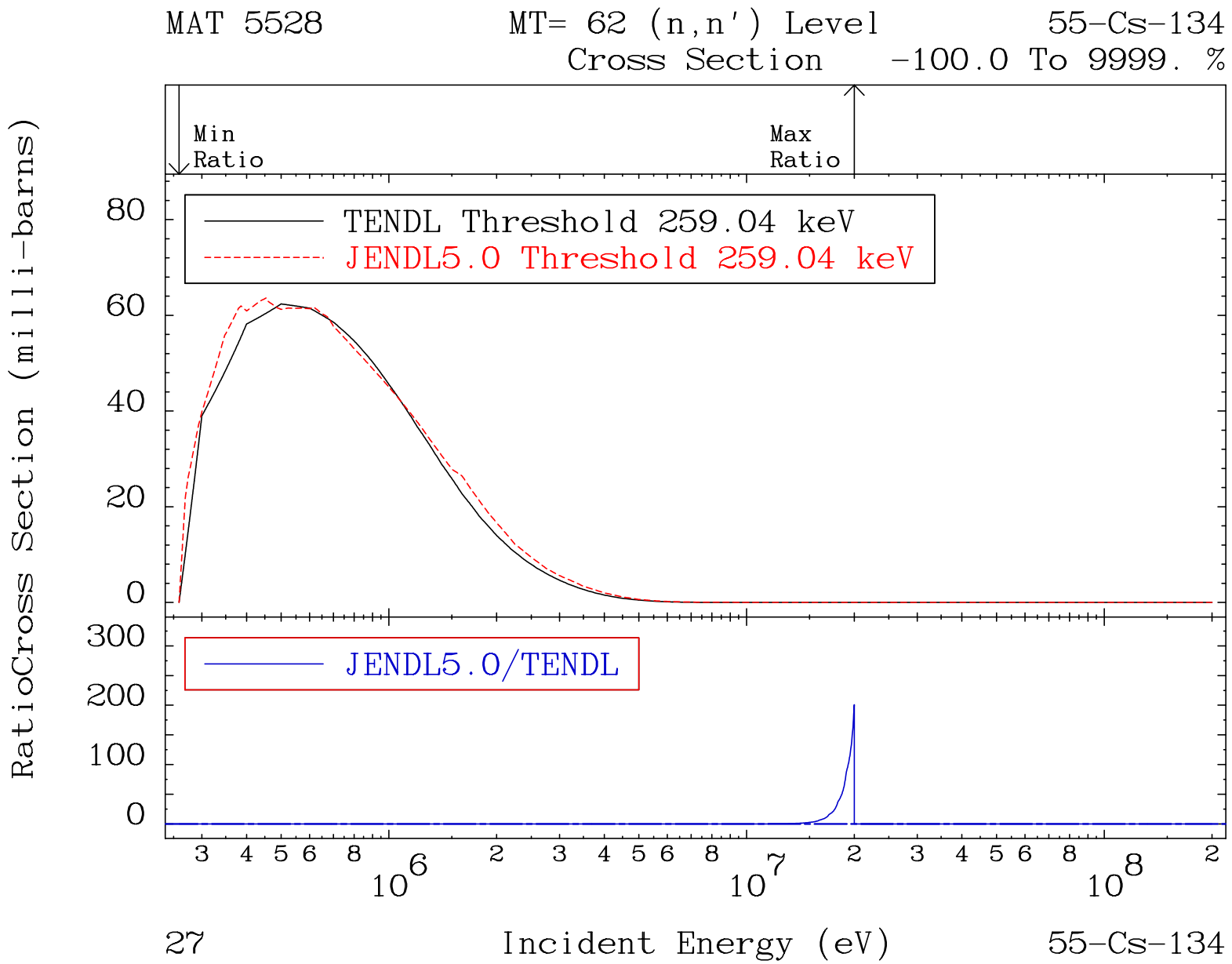

MAT 5528
MT= 57 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 191.69 keV
JENDL5.0 Threshold 191.69 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
120
60
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
22
Incident Energy (eV)
55-Cs-134

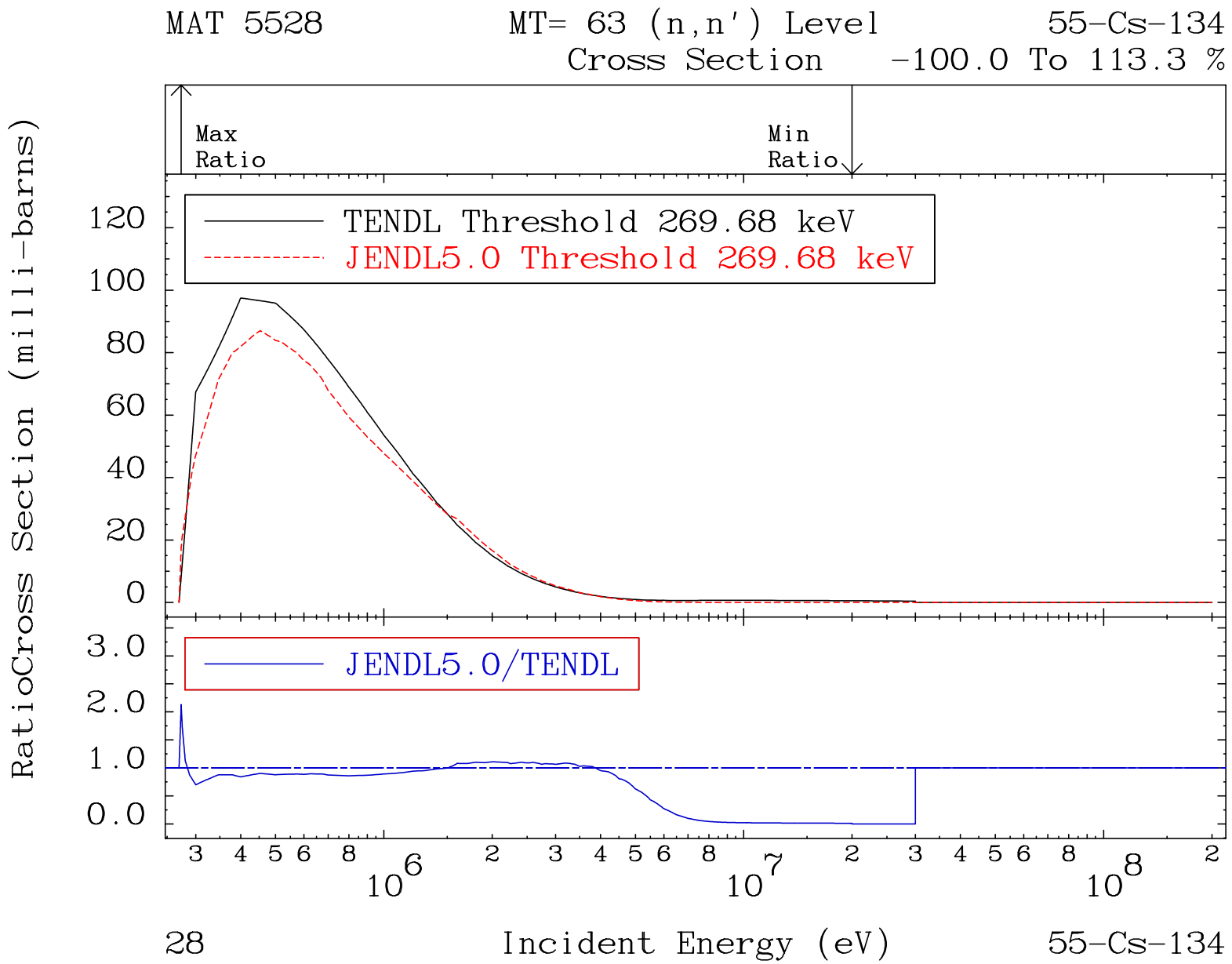

MAT 5528
MT= 58 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 195.07 keV
JENDL5.0 Threshold 195.07 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
60
40
20
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
23
Incident Energy (eV)
55-Cs-134

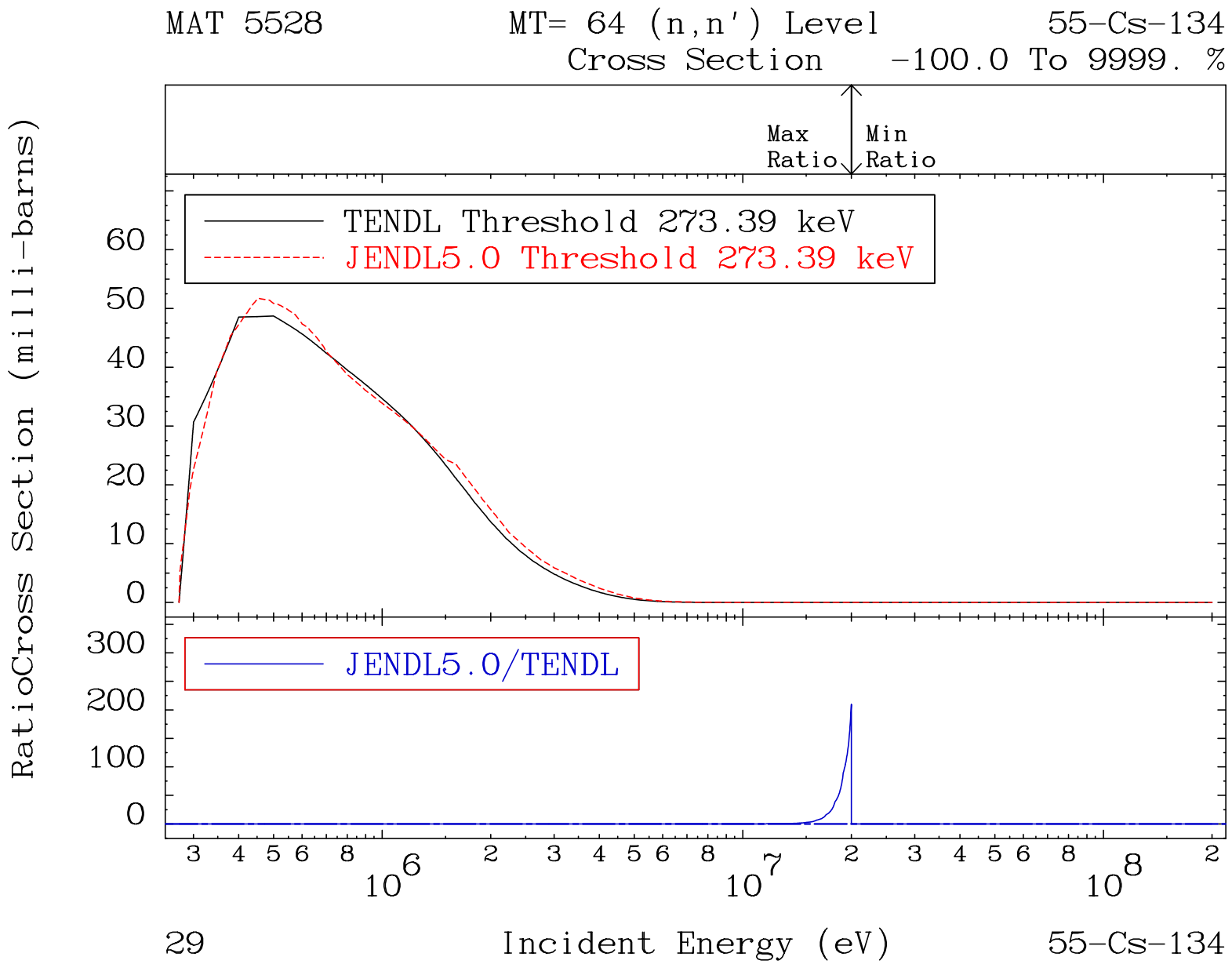

MAT 5528
MT= 59 (n,n') Level
55-Cs-134
Cross Section
-100.0 To 71.52 %
Max
Ratio
TENDL Threshold 199.27 keV
JENDL5.0 Threshold 199.27 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.0
1.0
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
24
Incident Energy (eV)
55-Cs-134

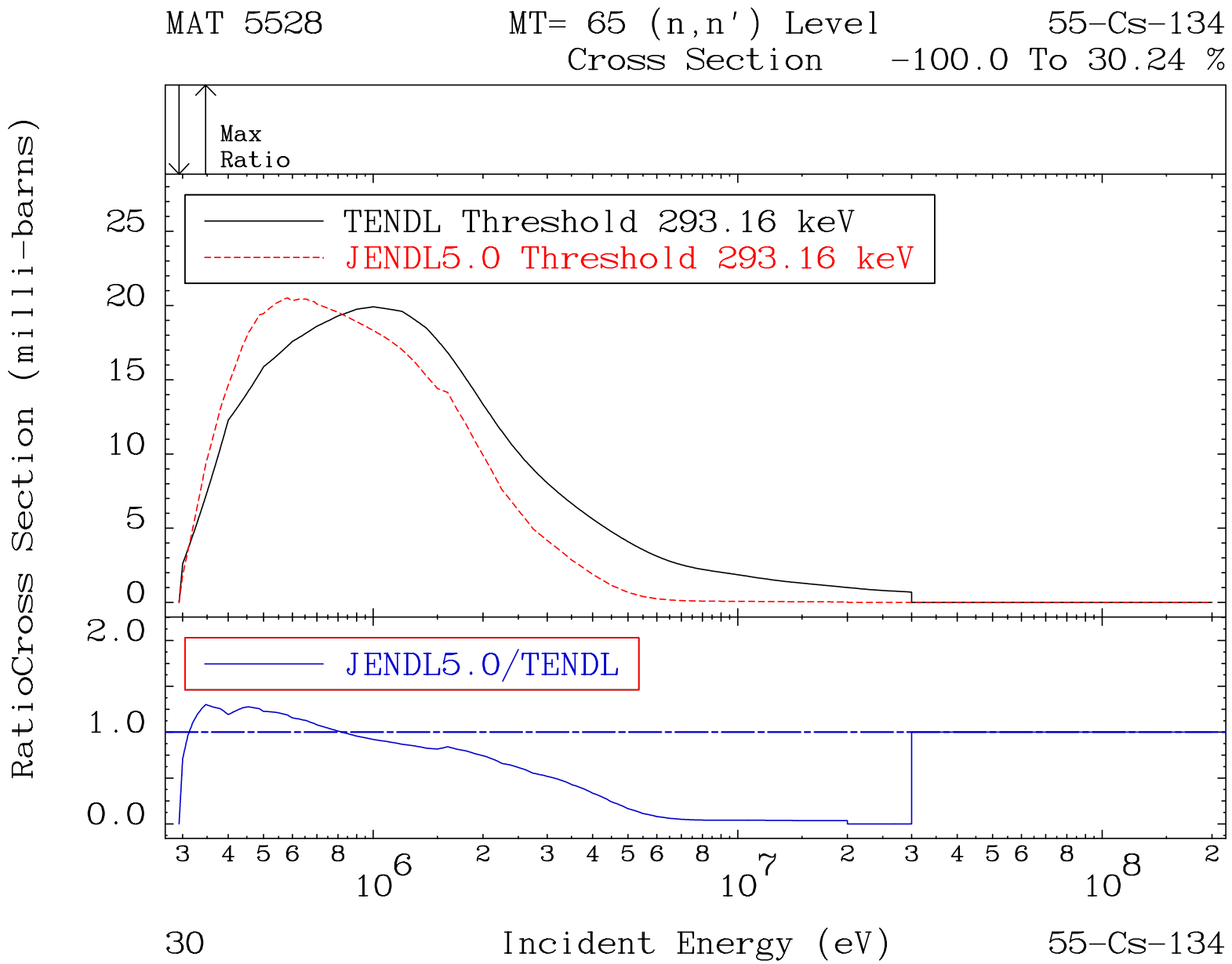

MAT 5528
MT= 60 (n,n') Level
55-Cs-134
Cross Section
-100.0 To 166.2 %
Max Ratio
Min Ratio
TENDL Threshold 211.12 keV
JENDL5.0 Threshold 211.12 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
4
2
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
25
Incident Energy (eV)
55-Cs-134

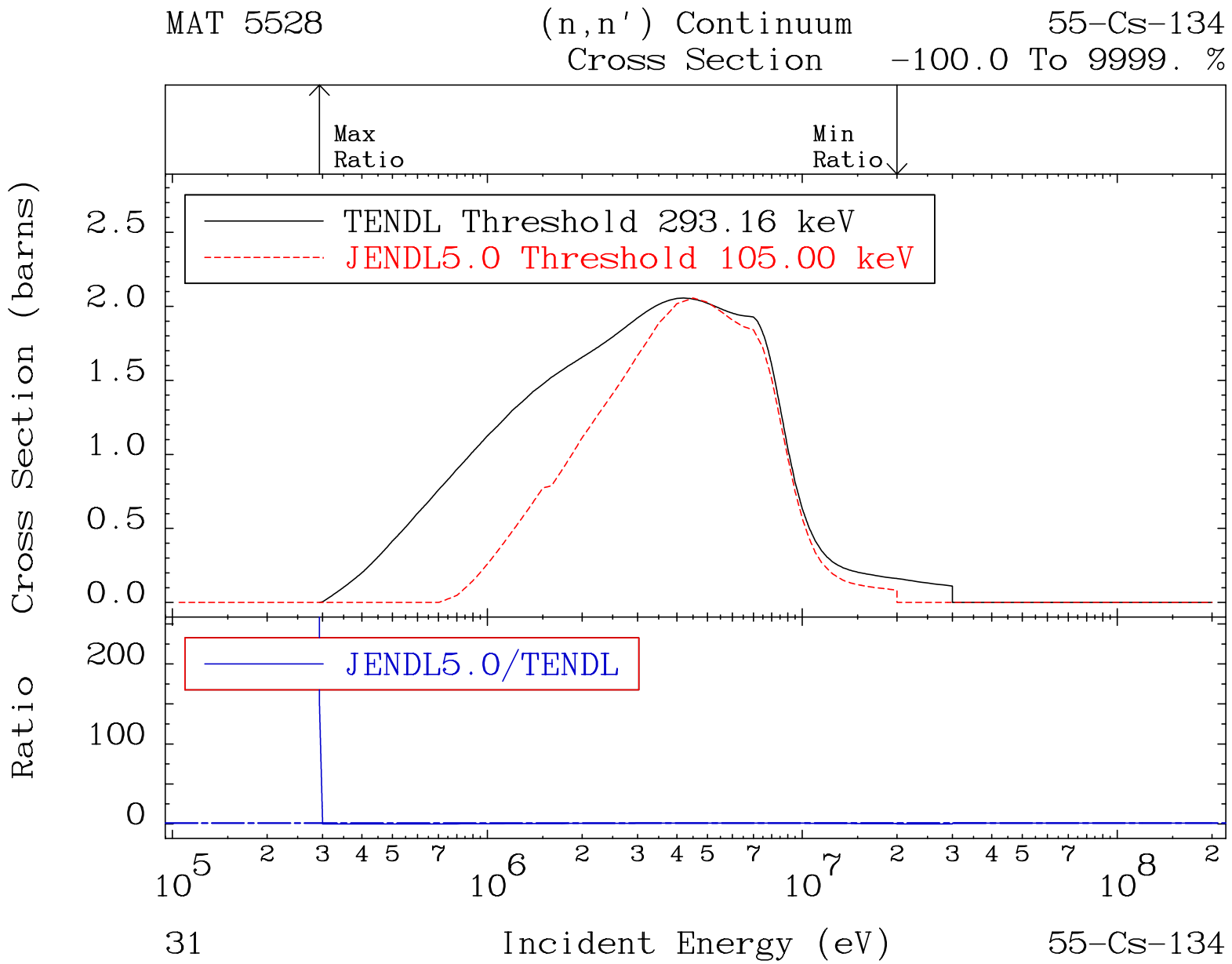

MAT 5528
MT= 61 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 236.10 keV
JENDL5.0 Threshold 236.10 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
400
200
0
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
26
Incident Energy (eV)
55-Cs-134

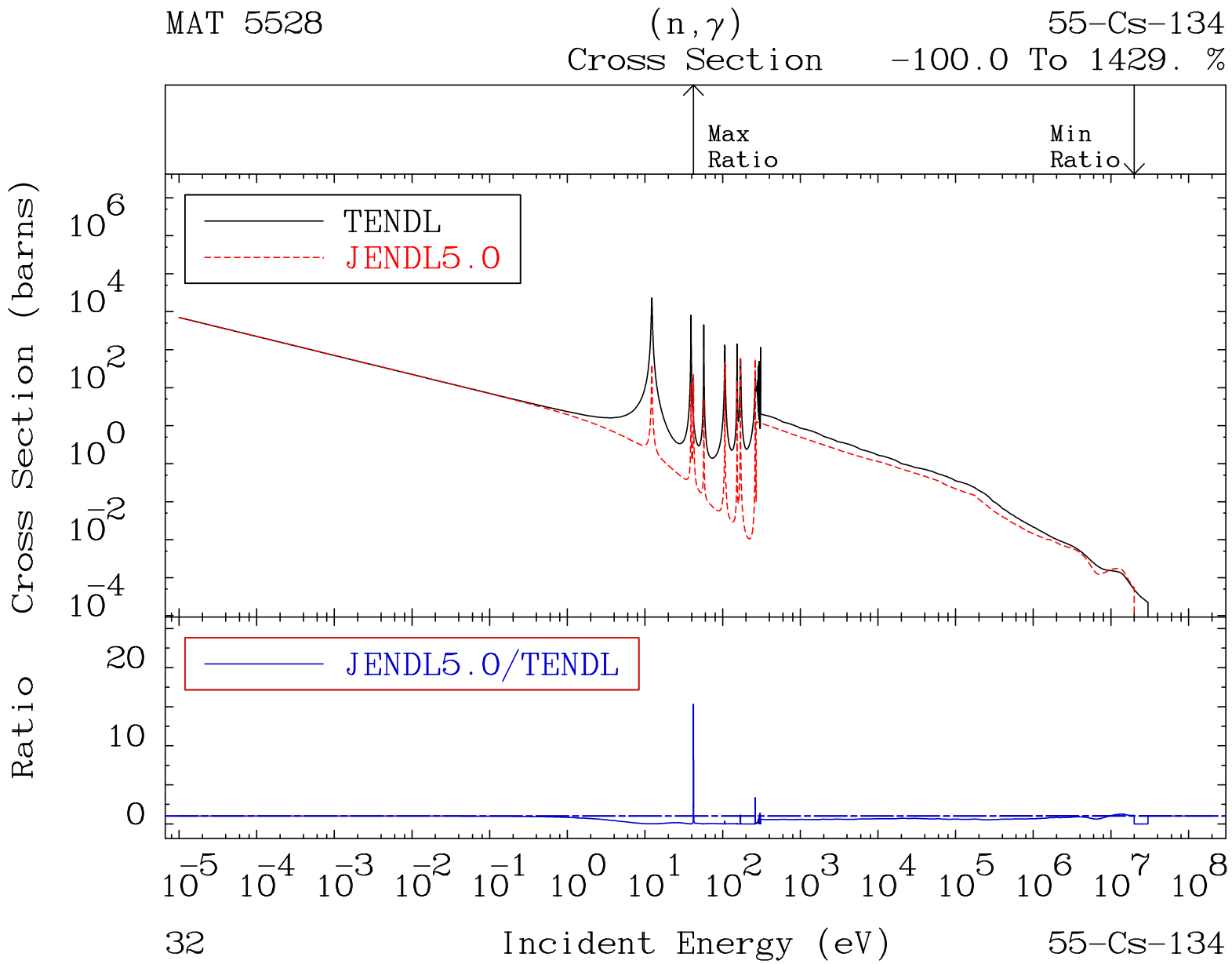

MAT 5528
MT= 62 (n,n') Level
55-Cs-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 259.04 keV
JENDL5.0 Threshold 259.04 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
300
200
100
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
55-Cs-134

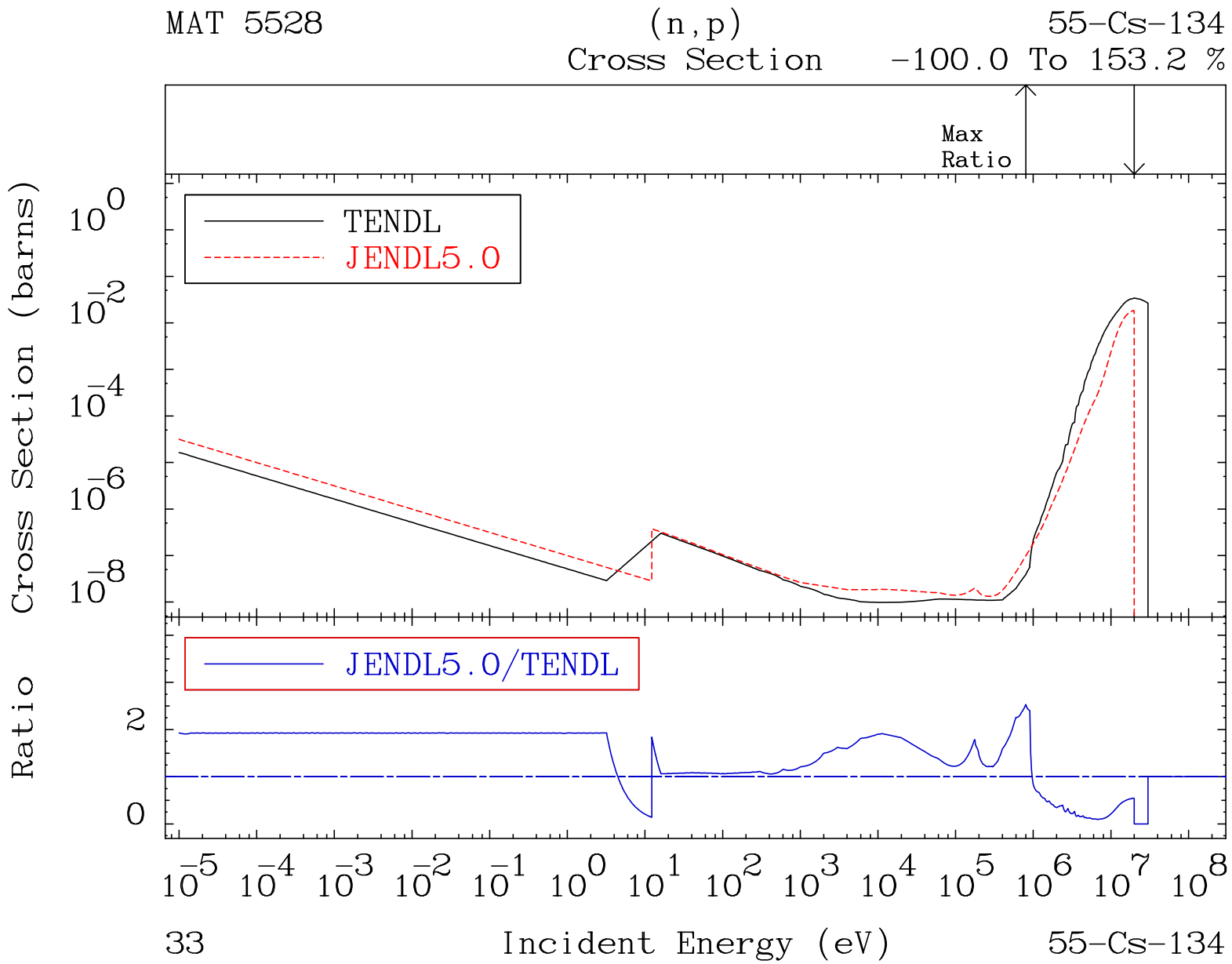

MAT 5528
MT= 63 (n,n') Level
55-Cs-134
Cross Section
-100.0 To 113.3 %
Max Ratio
Min Ratio
TENDL Threshold 269.68 keV
JENDL5.0 Threshold 269.68 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
28
Incident Energy (eV)
55-Cs-134

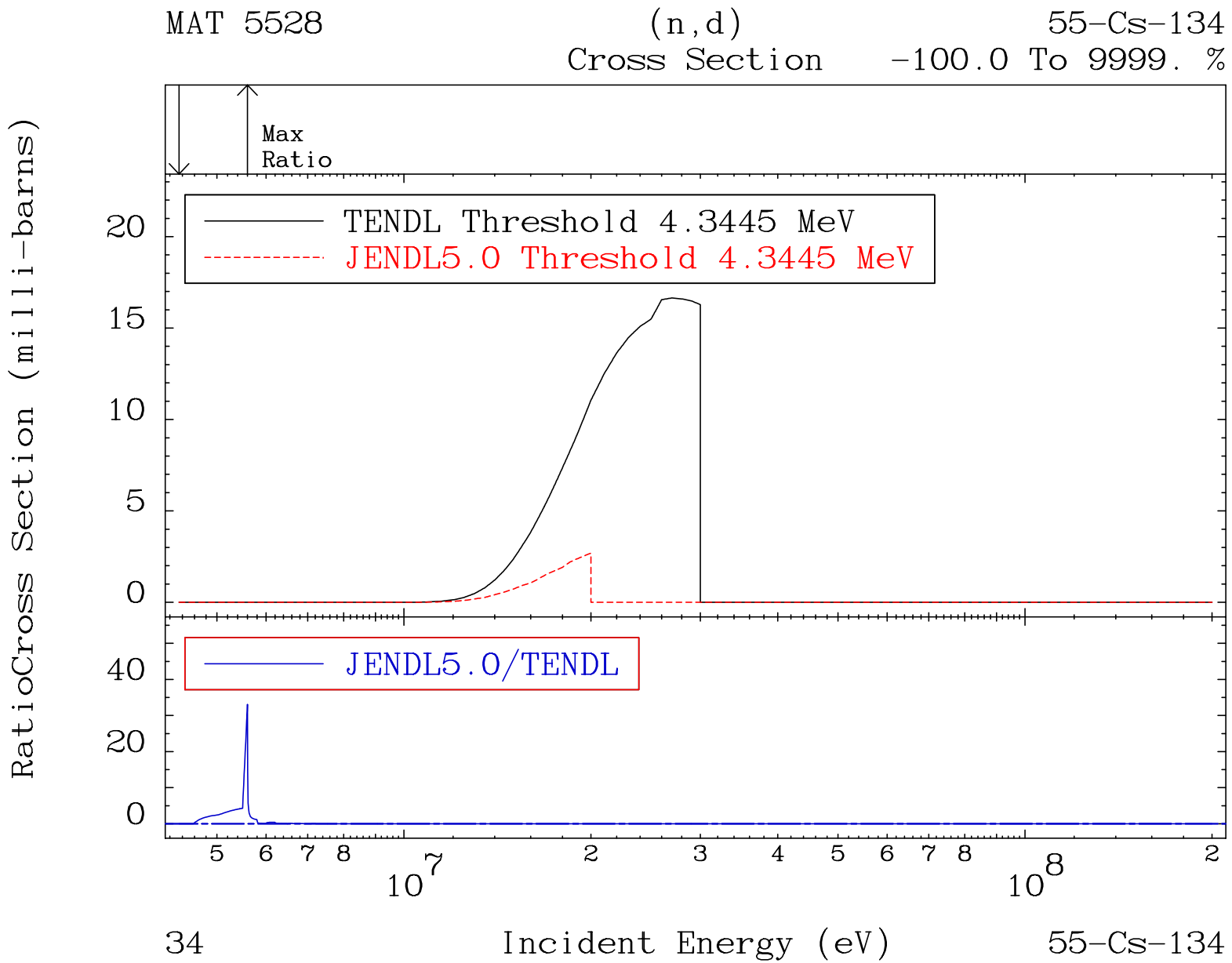

MAT 5528
MT= 64 (n,n') Level
55-Cs-134
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 273.39 keV
JENDL5.0 Threshold 273.39 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
300
200
100
0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
29
Incident Energy (eV)
55-Cs-134

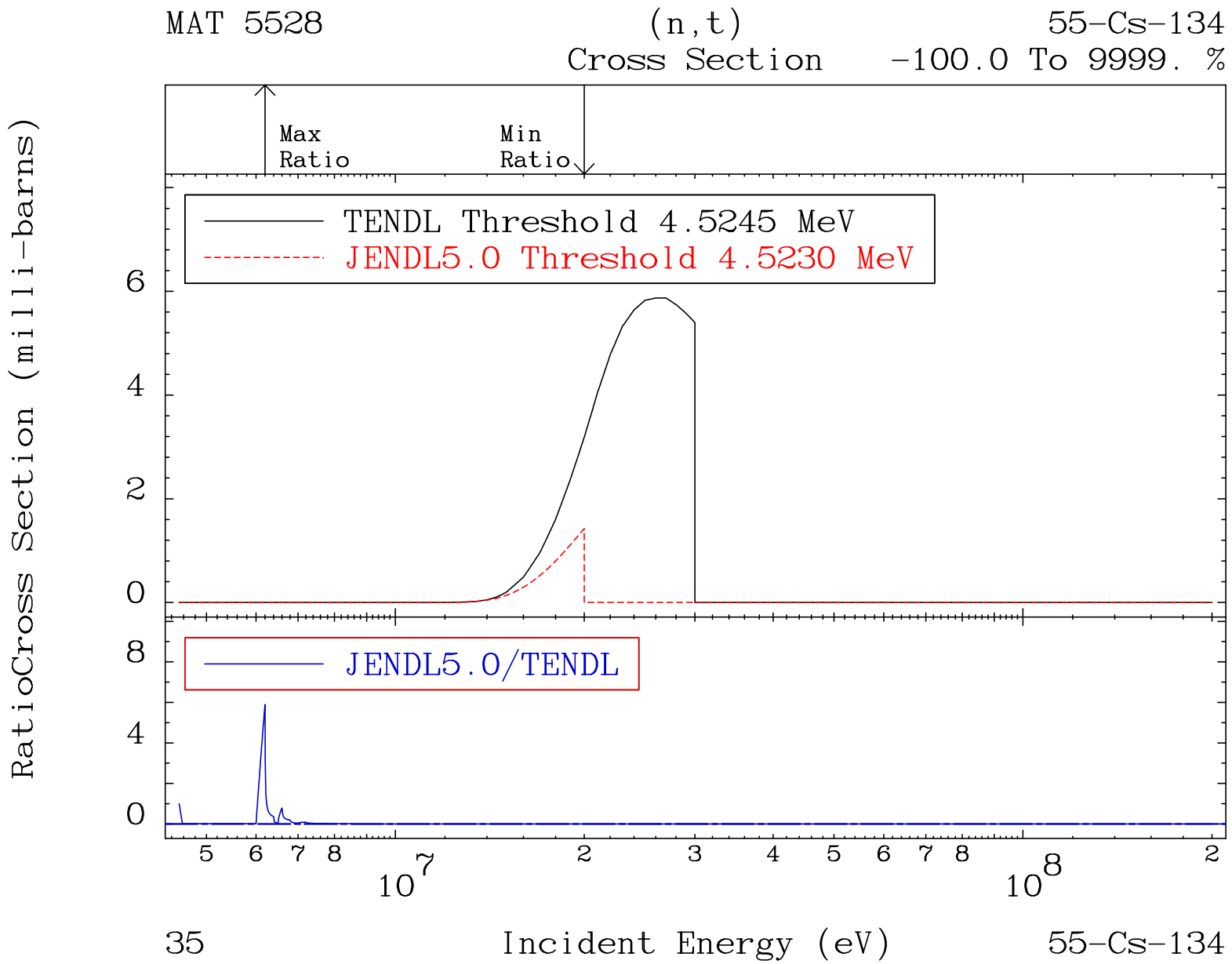

MAT 5528
MT= 65 (n,n') Level
55-Cs-134
Cross Section -100.0 To 30.24 %
Max
Ratio
TENDL Threshold 293.16 keV
JENDL5.0 Threshold 293.16 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
30
Incident Energy (eV)
55-Cs-134

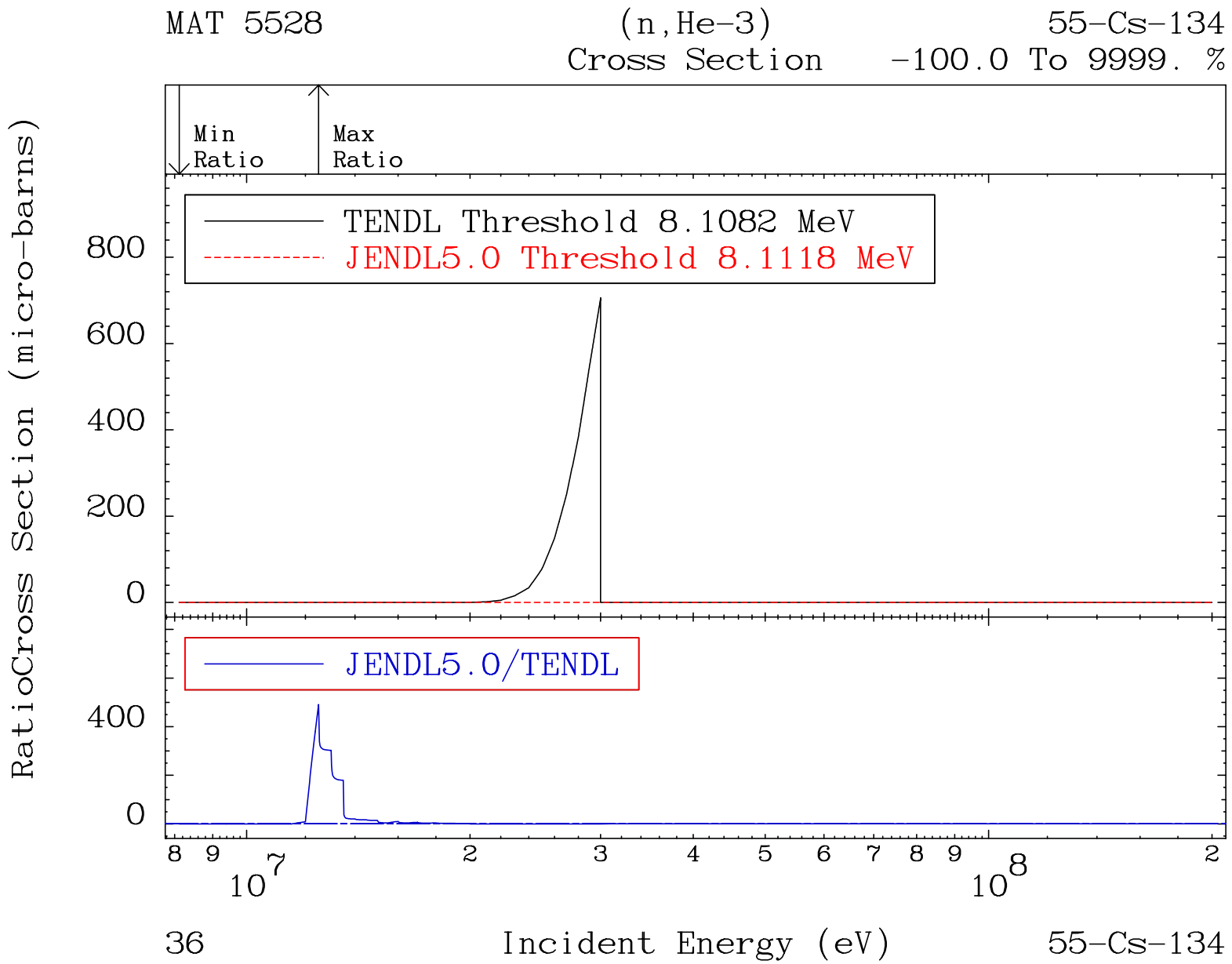

MAT 5528
(n,n') Continuum
Cross Section
55-Cs-134
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 293.16 keV
JENDL5.0 Threshold 105.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
200
100
0
10^5
10^6
10^7
10^8
31
Incident Energy (eV)
55-Cs-134

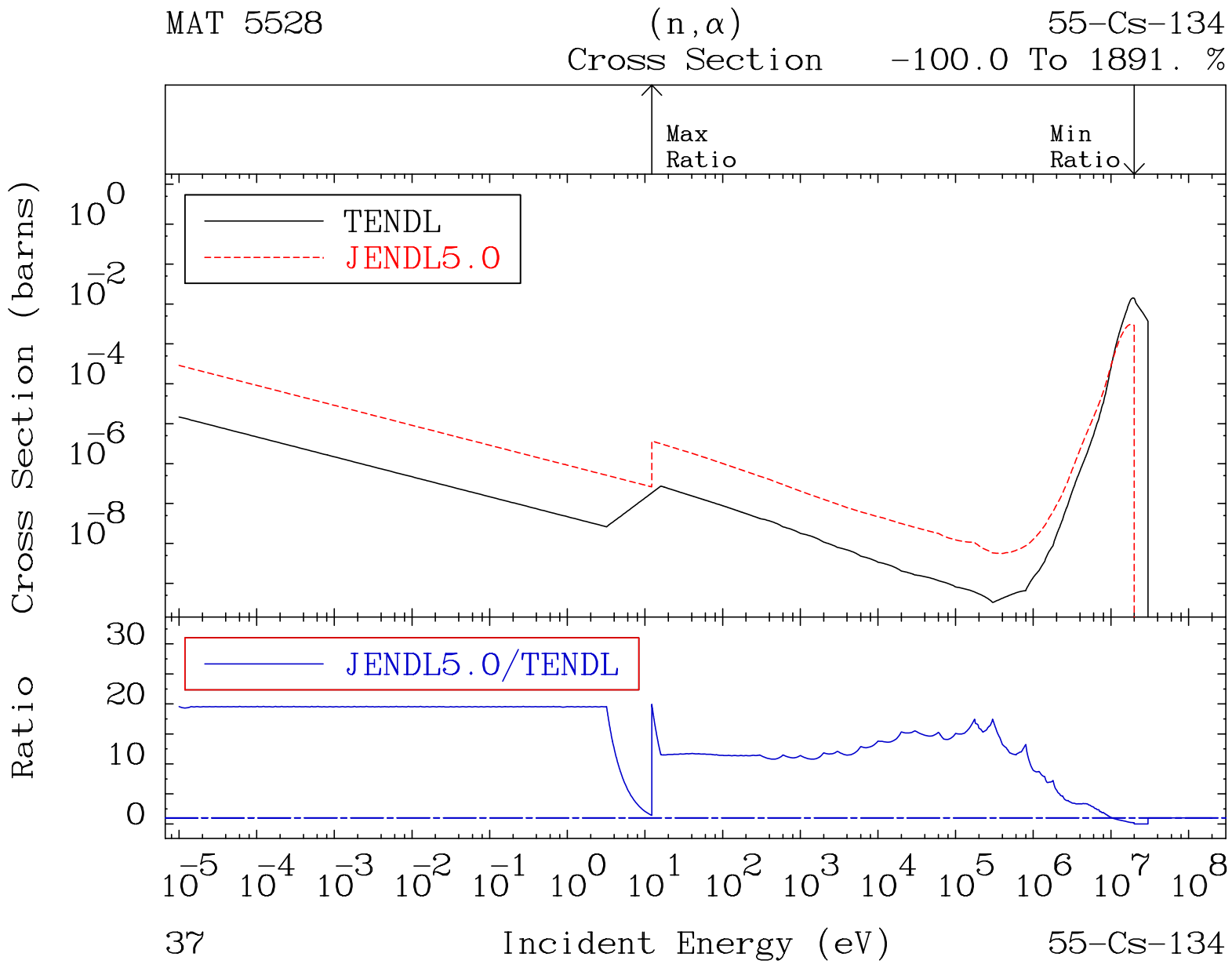

MAT 5528
(n,γ)
Cross Section
55-Cs-134
-100.0 To 1429. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
32
55-Cs-134

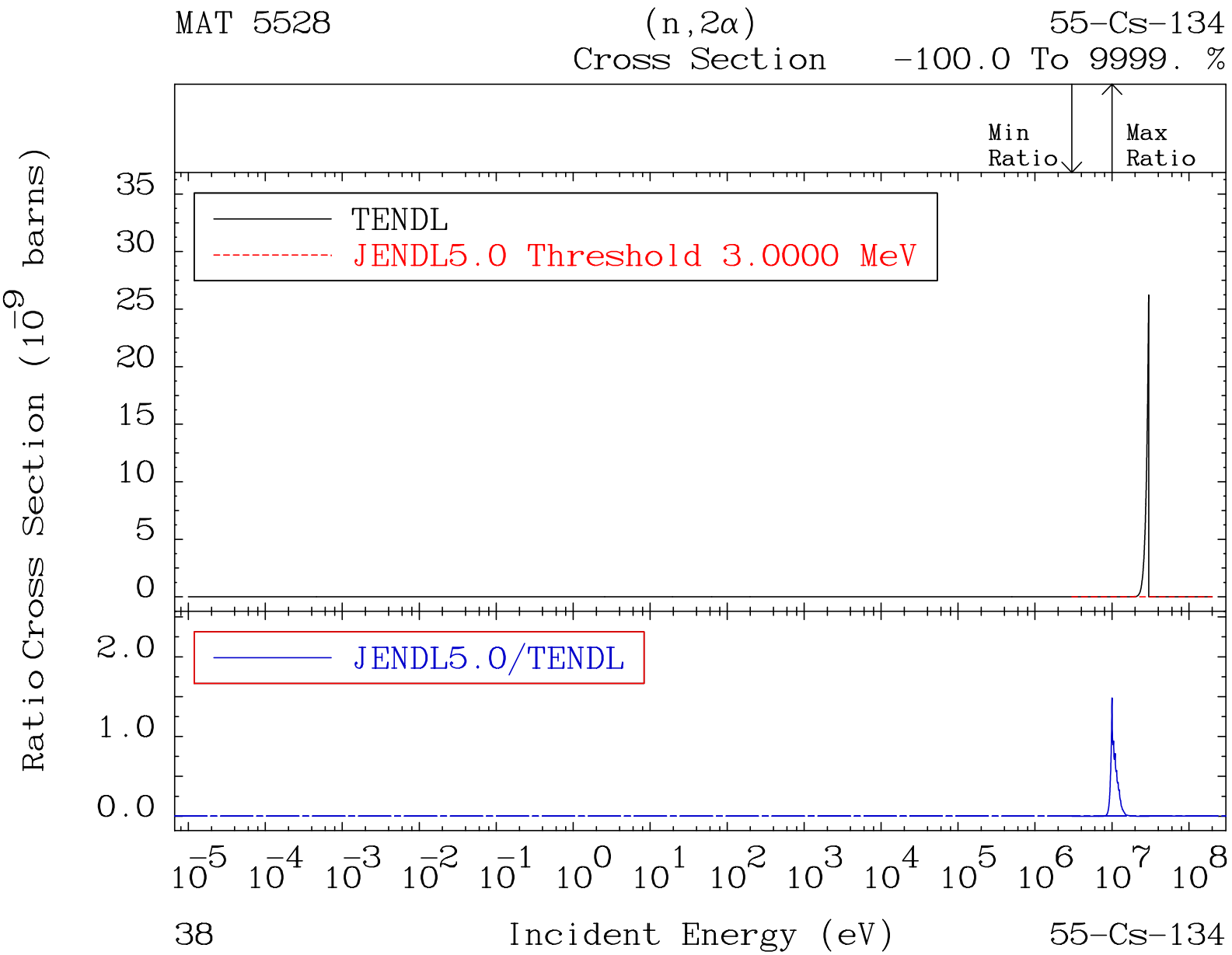

MAT 5528
(n,p)
Cross Section
55-Cs-134
-100.0 To 153.2 %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
55-Cs-134

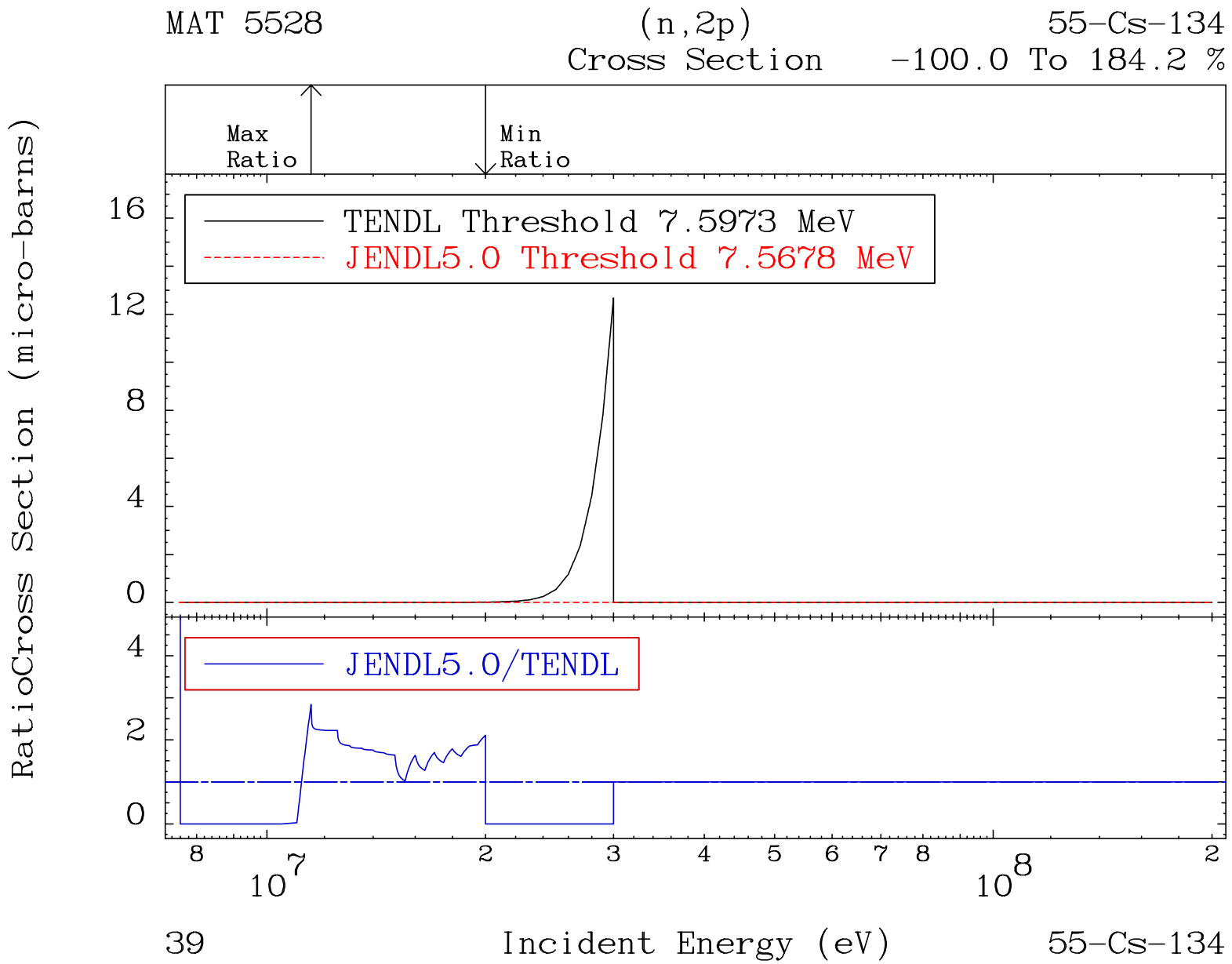

MAT 5528
(n,d)
Cross Section
55-Cs-134
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.3445 MeV
JENDL5.0 Threshold 4.3445 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
34
55-Cs-134

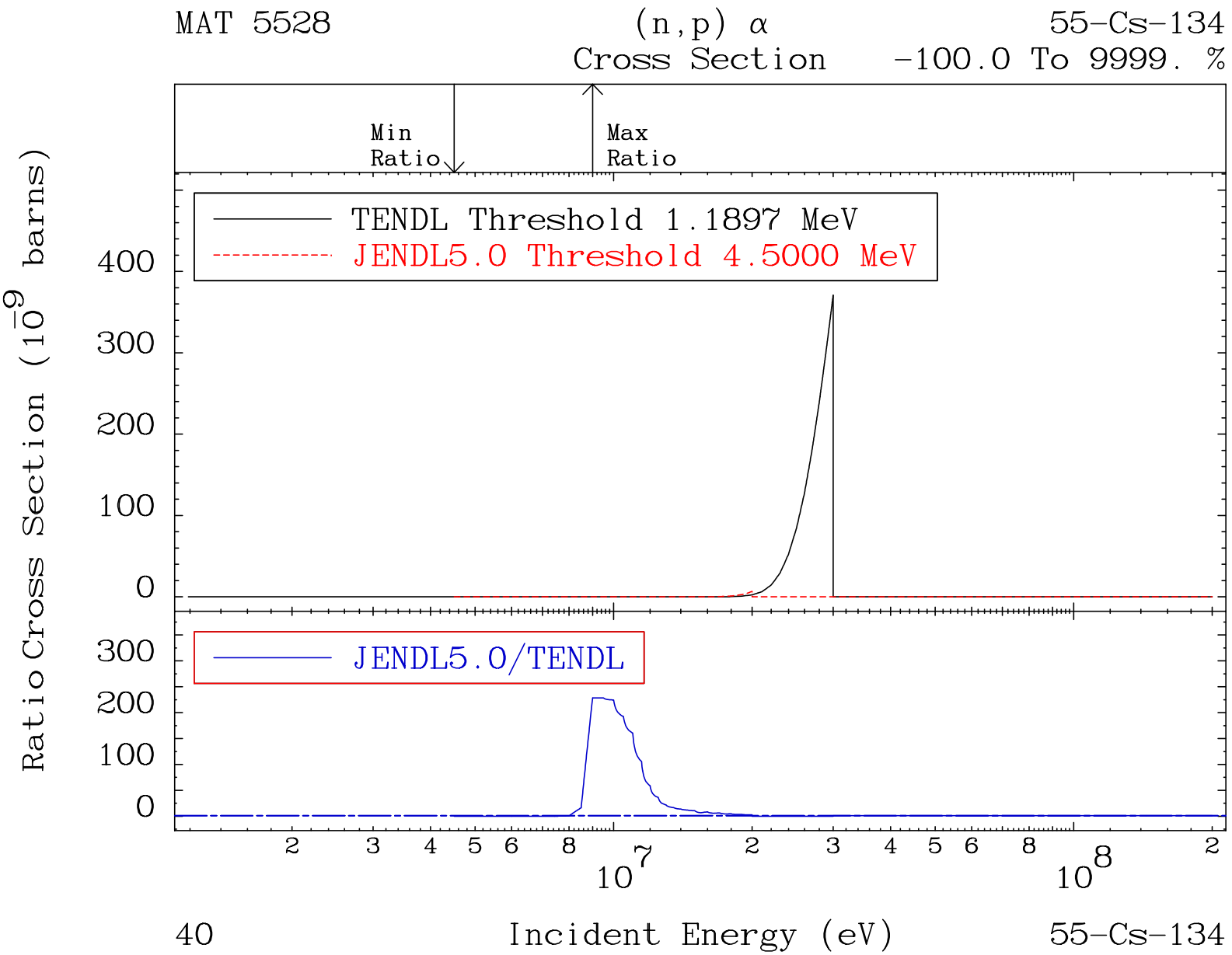

MAT 5528
(n,t)
Cross Section
55-Cs-134
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.5245 MeV
JENDL5.0 Threshold 4.5230 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
35
55-Cs-134

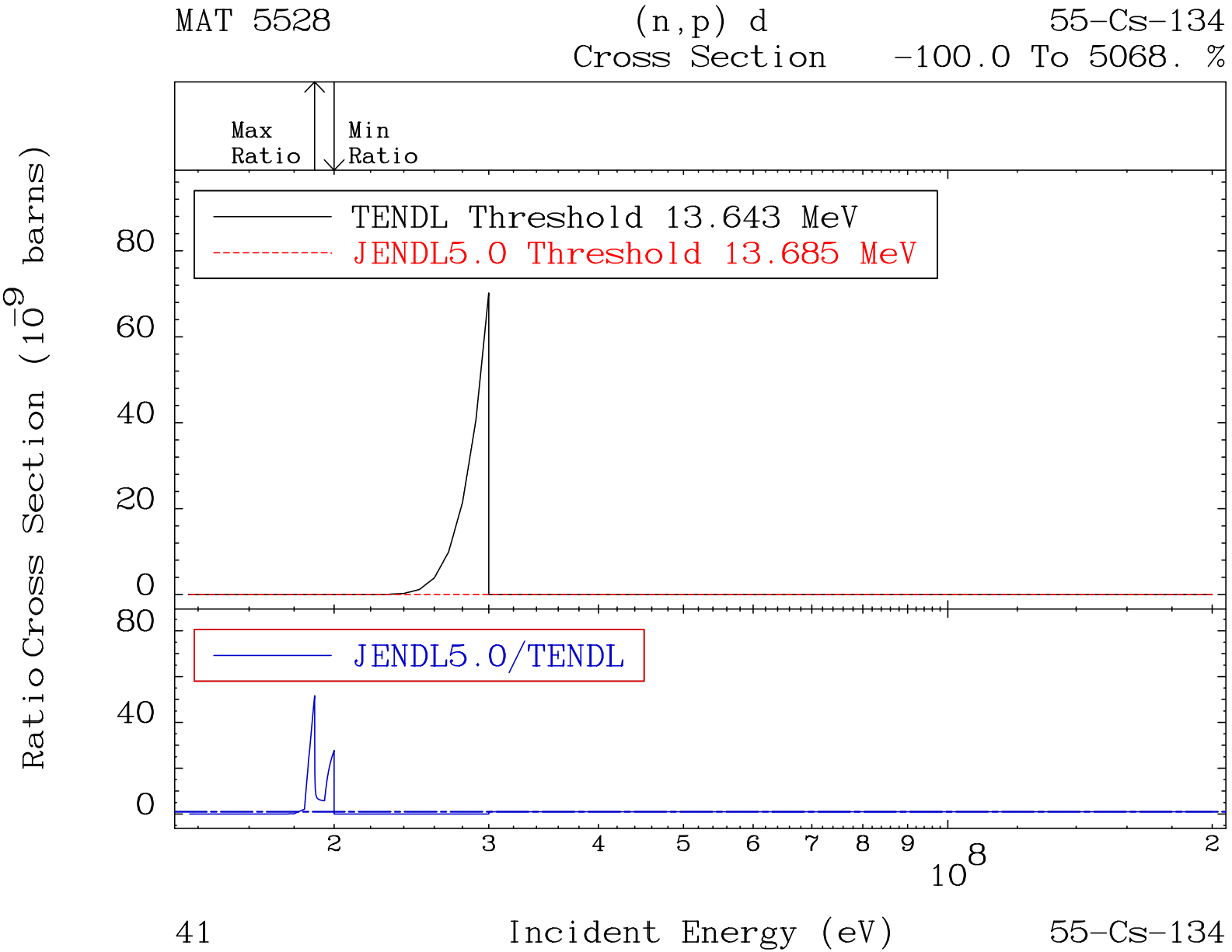

MAT 5528
(n,He-3)
Cross Section
55-Cs-134
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.1082 MeV
JENDL5.0 Threshold 8.1118 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
400
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
55-Cs-134

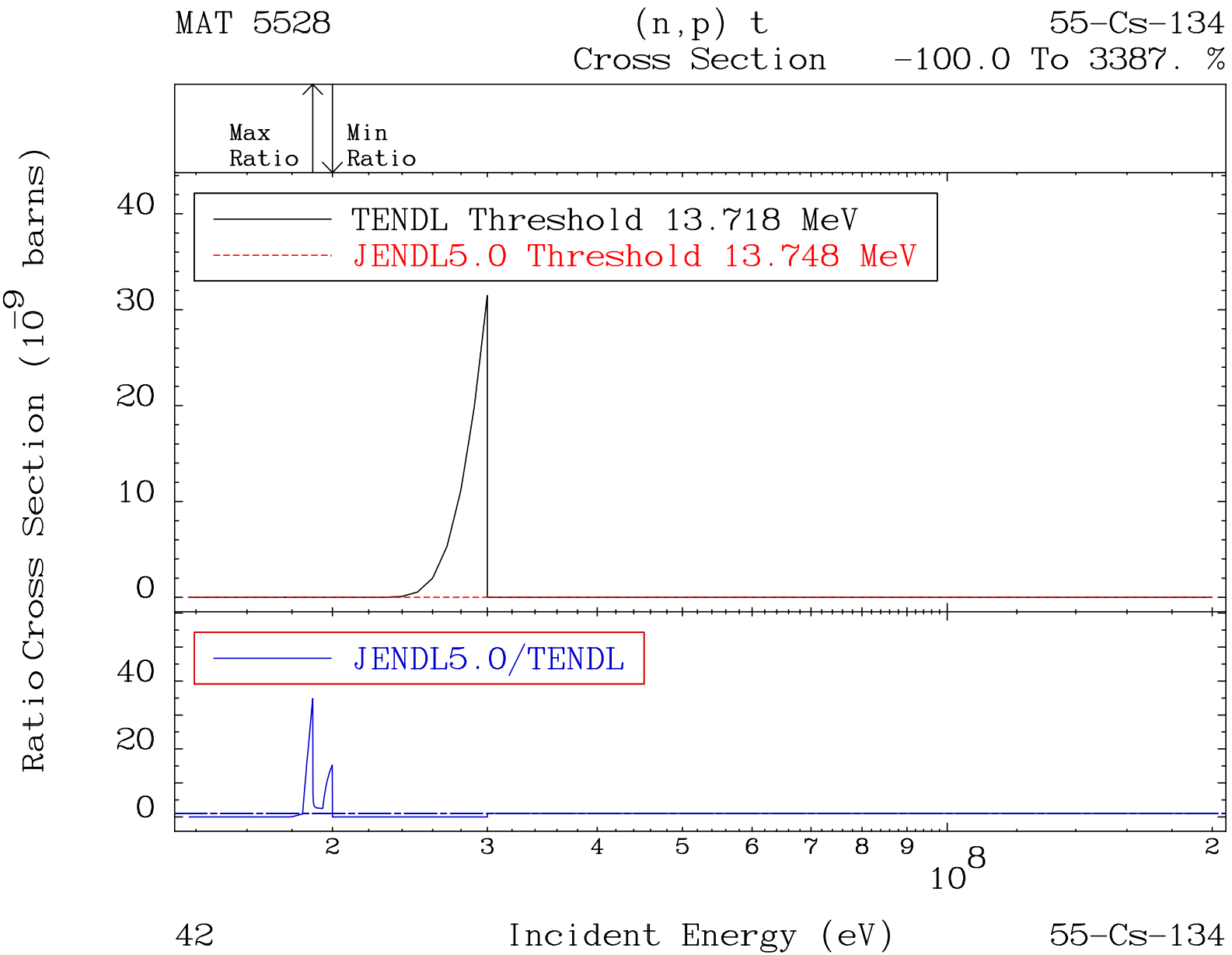

MAT 5528
(n,α)
Cross Section
55-Cs-134
-100.0 To 1891. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
55-Cs-134

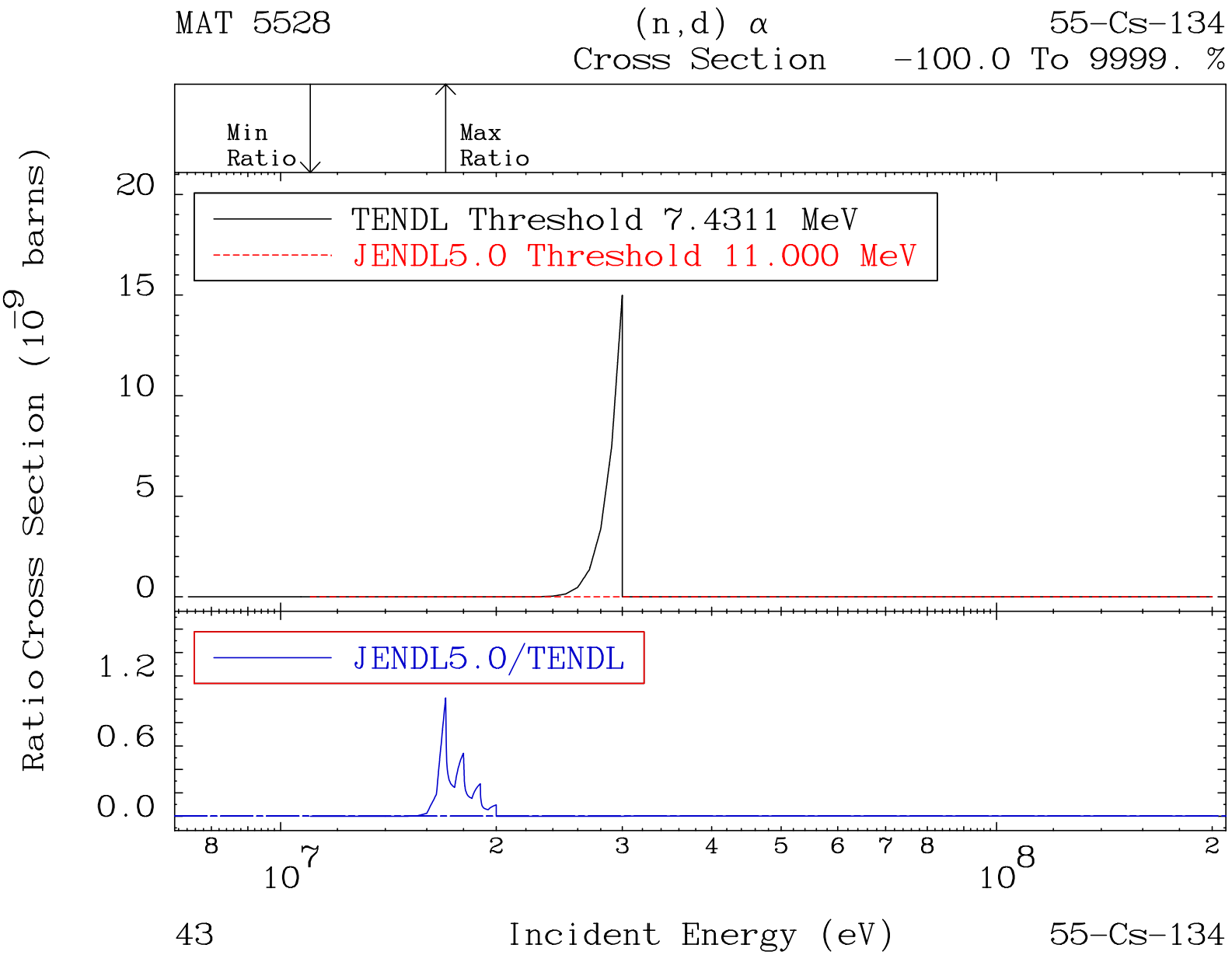

MAT 5528
(n,2α)
55-Cs-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 3.0000 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^-9 barns)
35
30
25
20
15
10
5
0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
38
Incident Energy (eV)
55-Cs-134

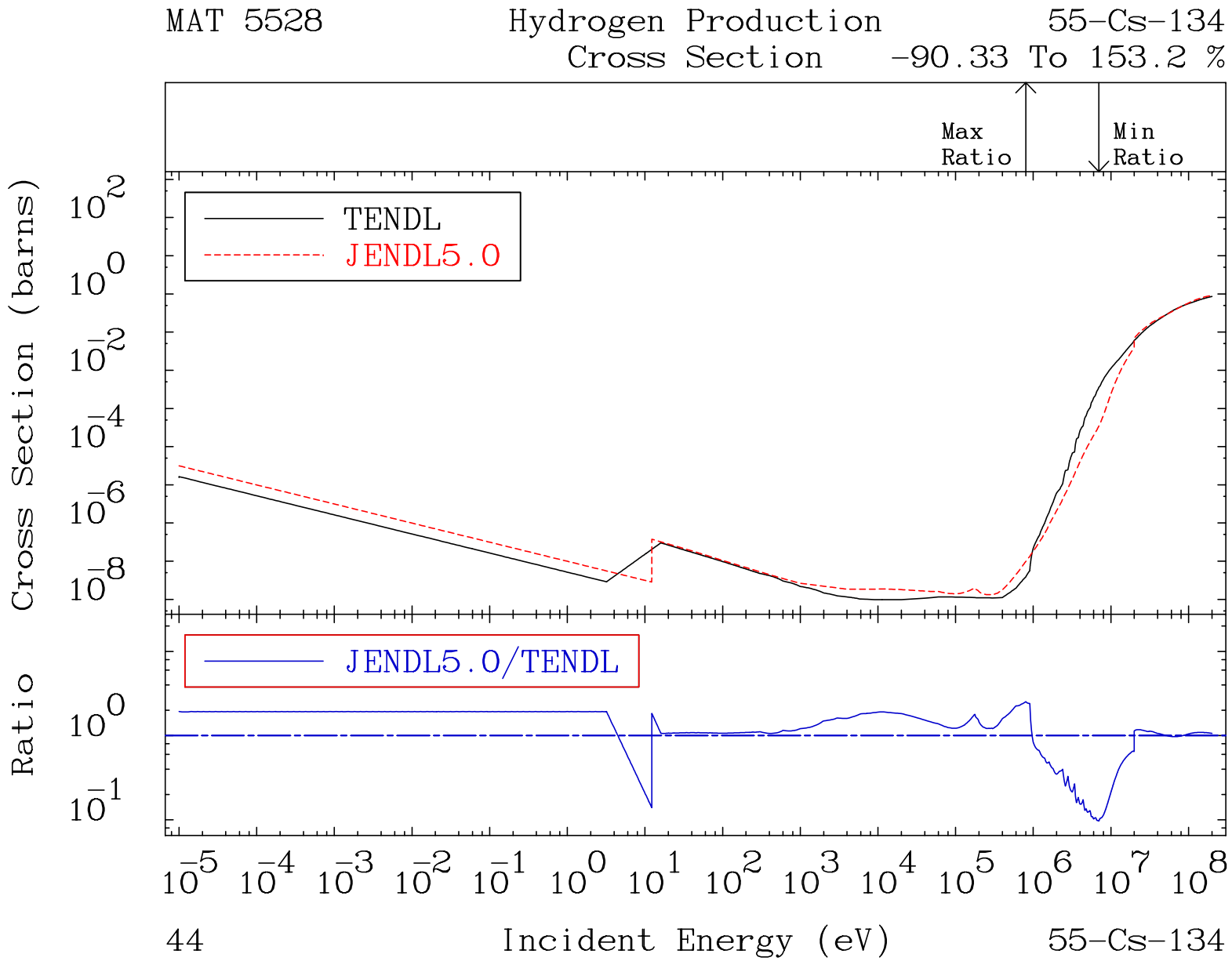

MAT 5528
(n,2p)
Cross Section
55-Cs-134
-100.0 To 184.2 %
Max Ratio
Min Ratio
TENDL Threshold 7.5973 MeV
JENDL5.0 Threshold 7.5678 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
4
2
0
8
2
3
4
5
6
7
8
2
10^7
10^8
39
Incident Energy (eV)
55-Cs-134

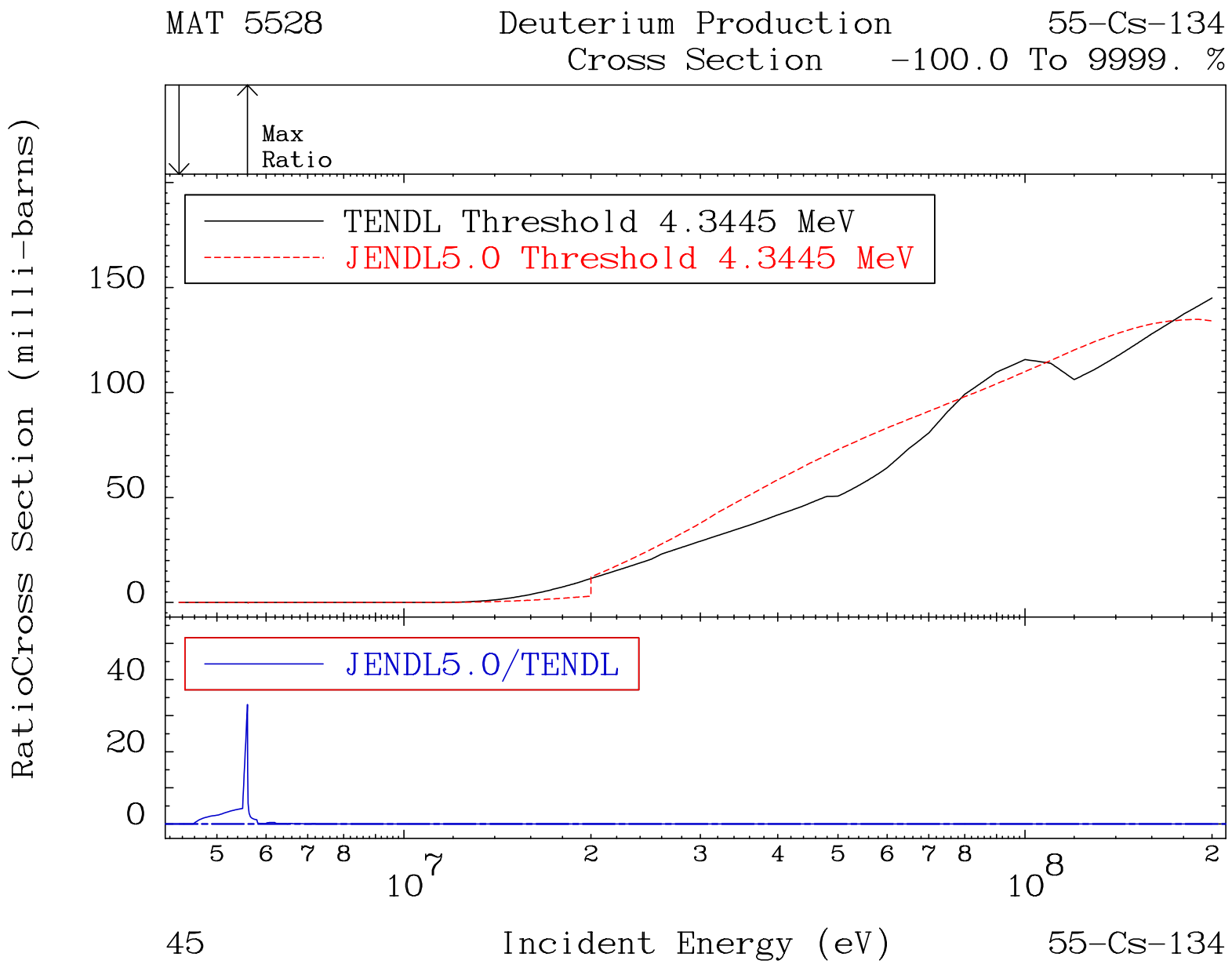

MAT 5528
(n,p) α
55-Cs-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1897 MeV
JENDL5.0 Threshold 4.5000 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^-9 barns)
400
300
200
100
0
300
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
40
Incident Energy (eV)
55-Cs-134

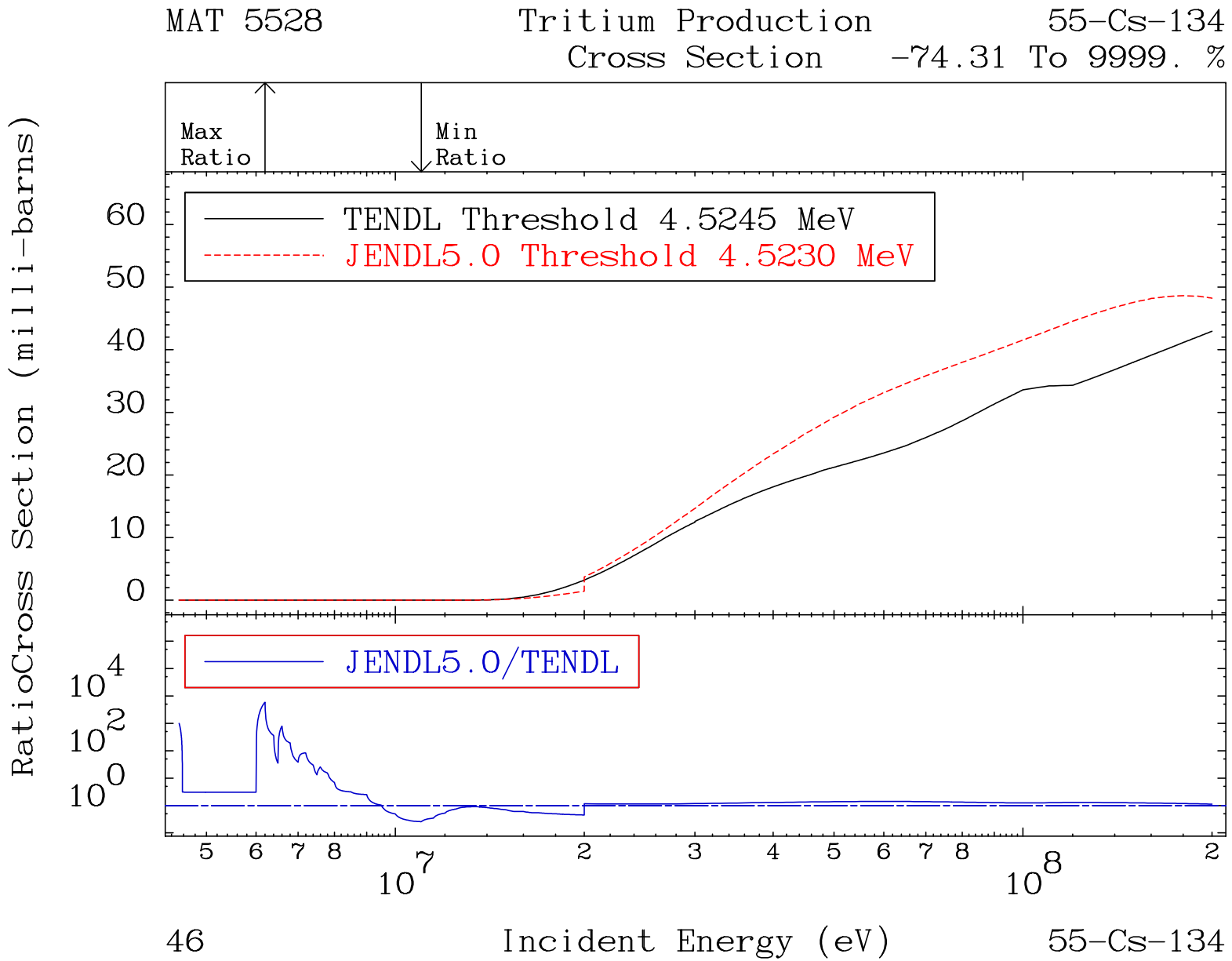

MAT 5528
(n,p) d
55-Cs-134
Cross Section
-100.0 To 5068. %
Max Ratio
Min Ratio
TENDL Threshold 13.643 MeV
JENDL5.0 Threshold 13.685 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^{-9} barns)
80
60
40
20
0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
41
Incident Energy (eV)
55-Cs-134

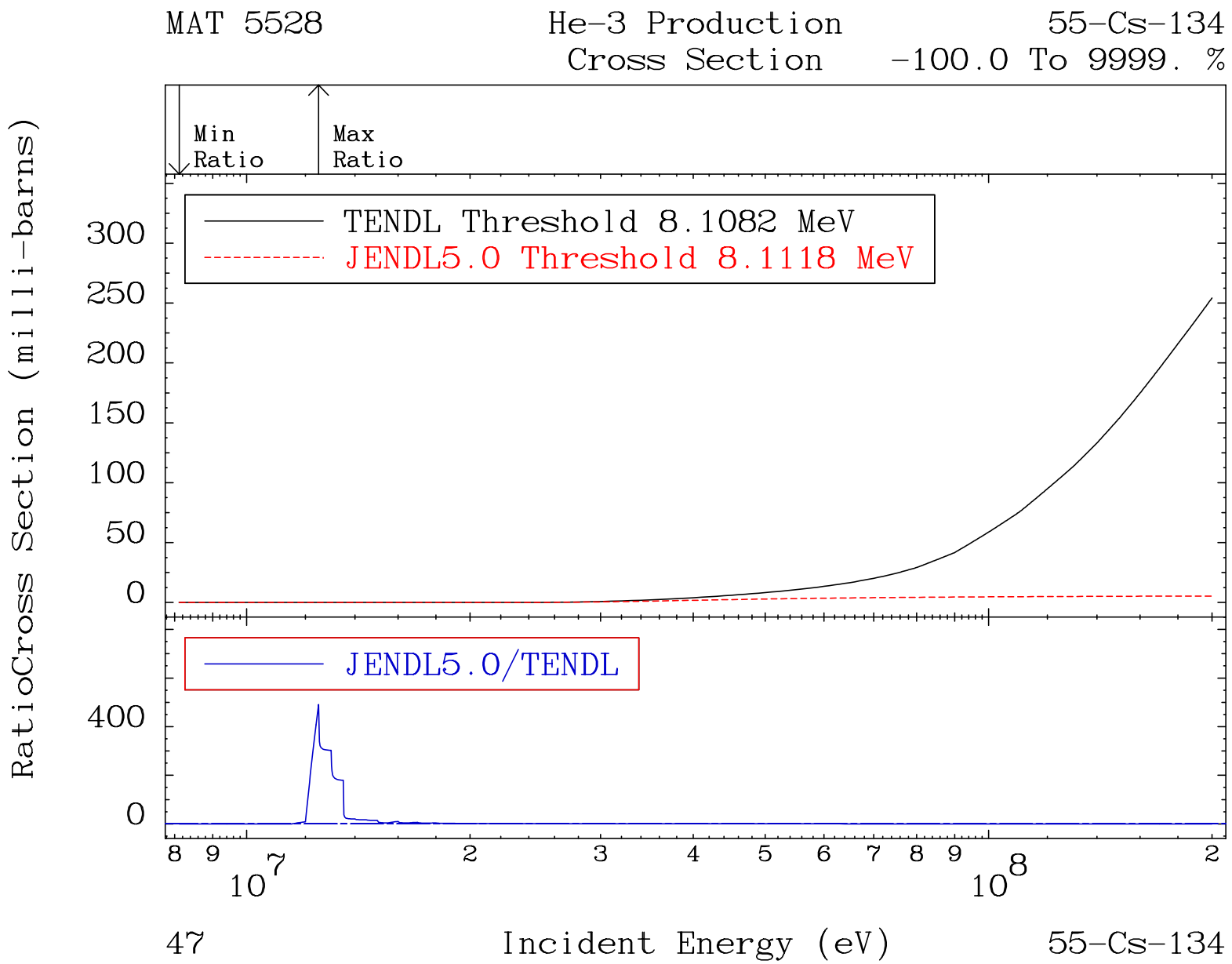

MAT 5528
(n,p) t
55-Cs-134
Cross Section
-100.0 To 3387. %
Max Ratio
Min Ratio
TENDL Threshold 13.718 MeV
JENDL5.0 Threshold 13.748 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^{-9} barns)
40
30
20
10
0
40
20
0
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
55-Cs-134

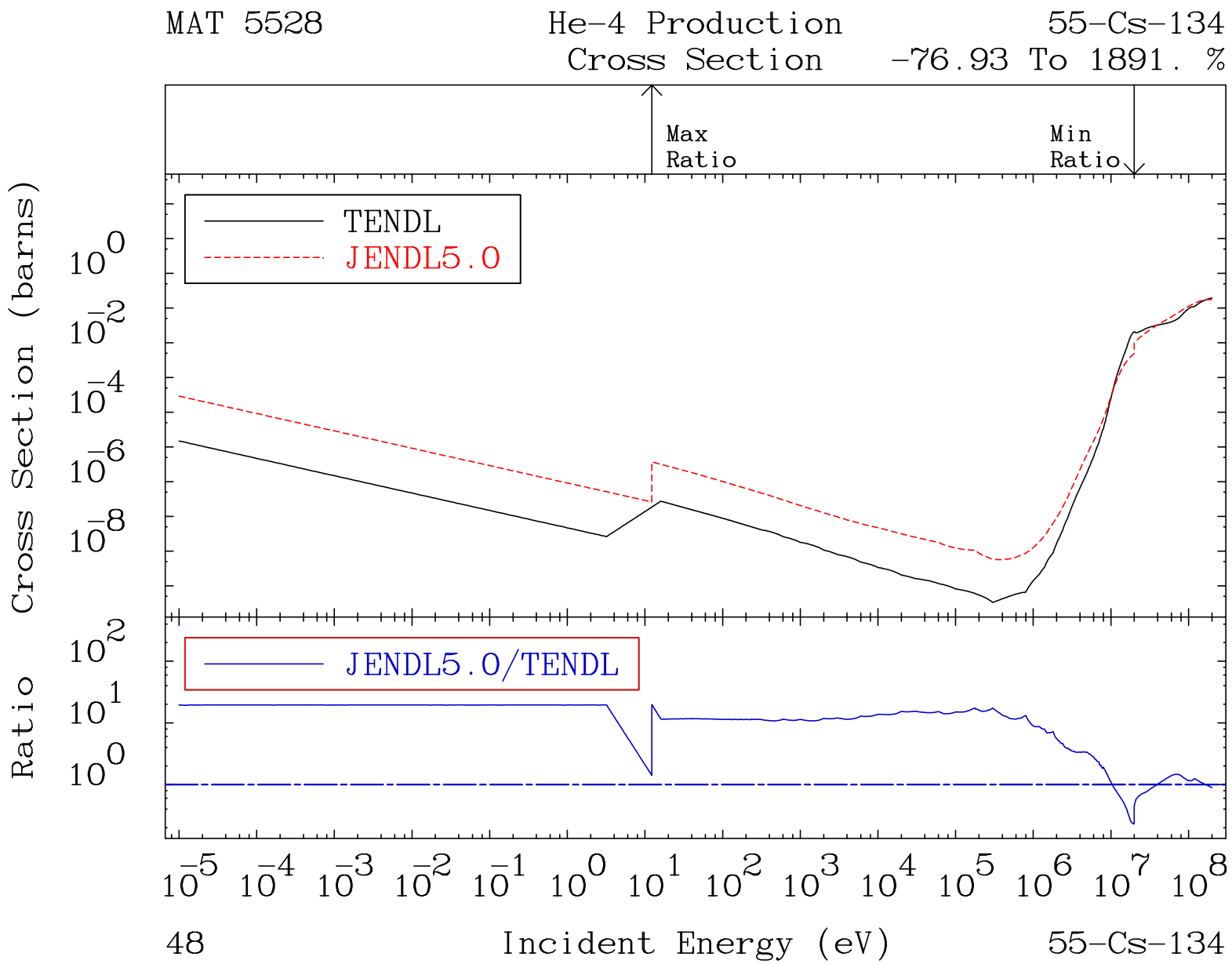

MAT 5528
(n,d) α
Cross Section
55-Cs-134
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4311 MeV
JENDL5.0 Threshold 11.000 MeV
JENDL5.0/TENDL
Ratio Cross Section (10^-9 barns)
20
15
10
5
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
43
Incident Energy (eV)
55-Cs-134

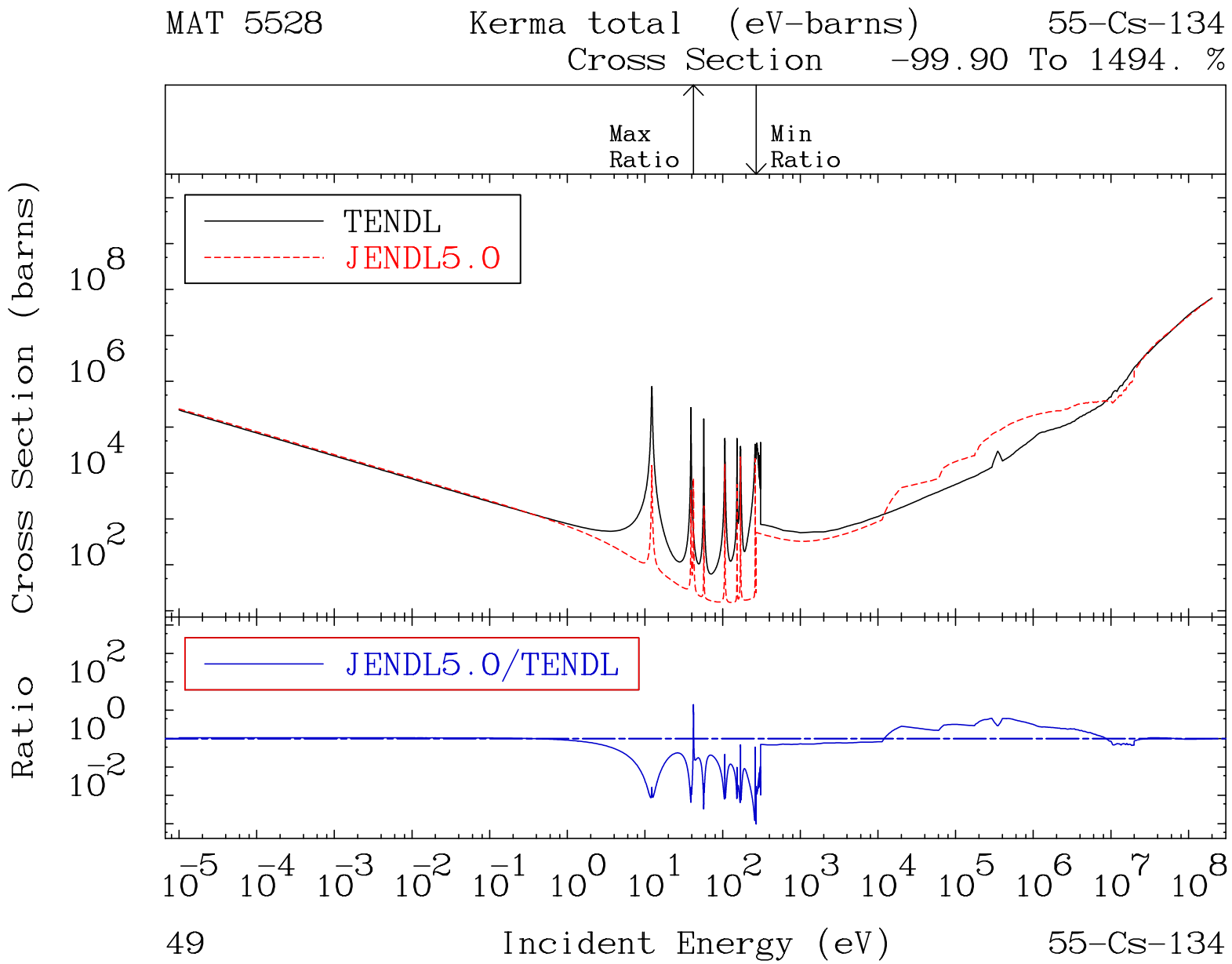

MAT 5528
Hydrogen Production
55-Cs-134
Cross Section
-90.33 To 153.2 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
55-Cs-134

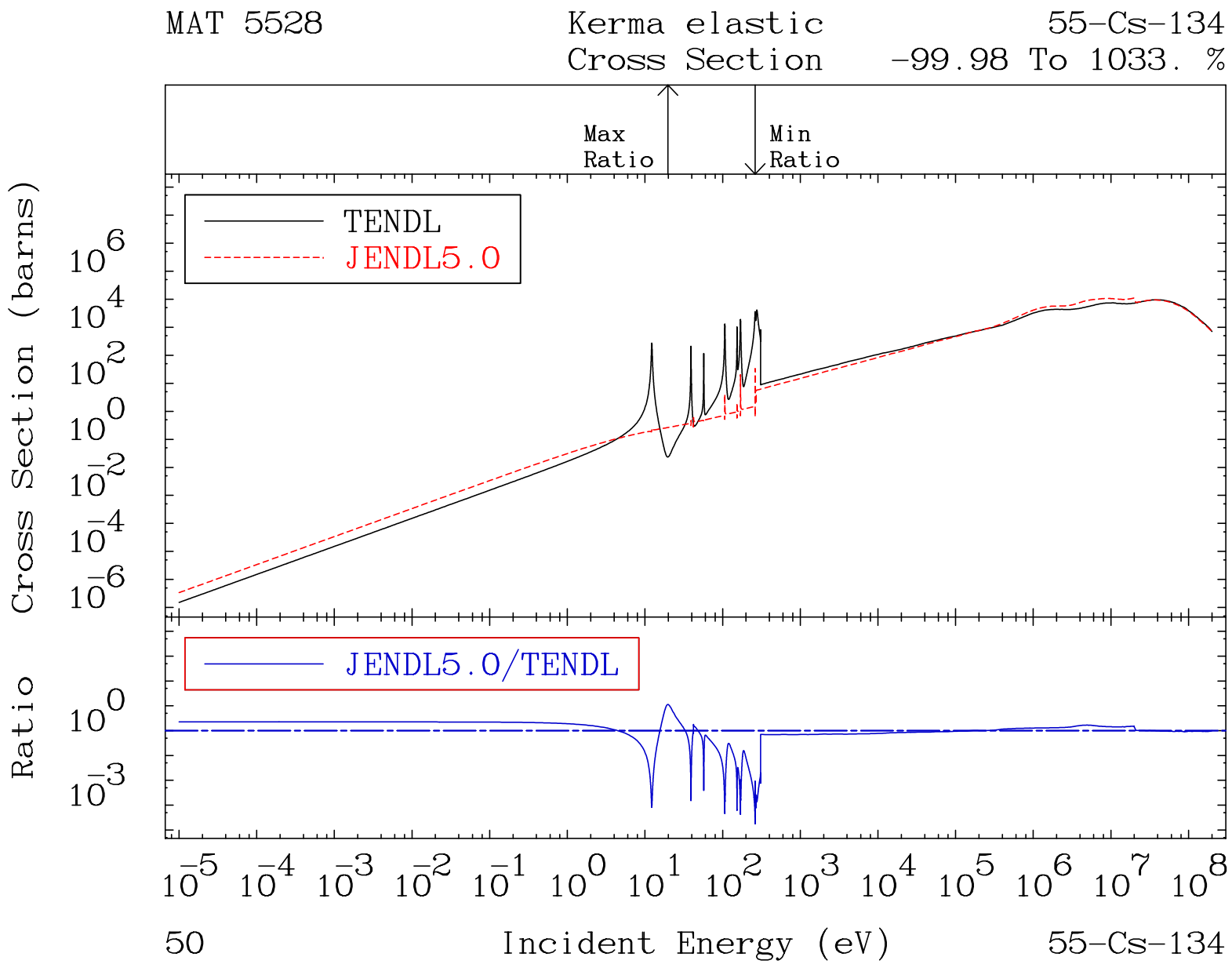

MAT 5528
Deuterium Production
55-Cs-134
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.3445 MeV
JENDL5.0 Threshold 4.3445 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
40
20
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
55-Cs-134

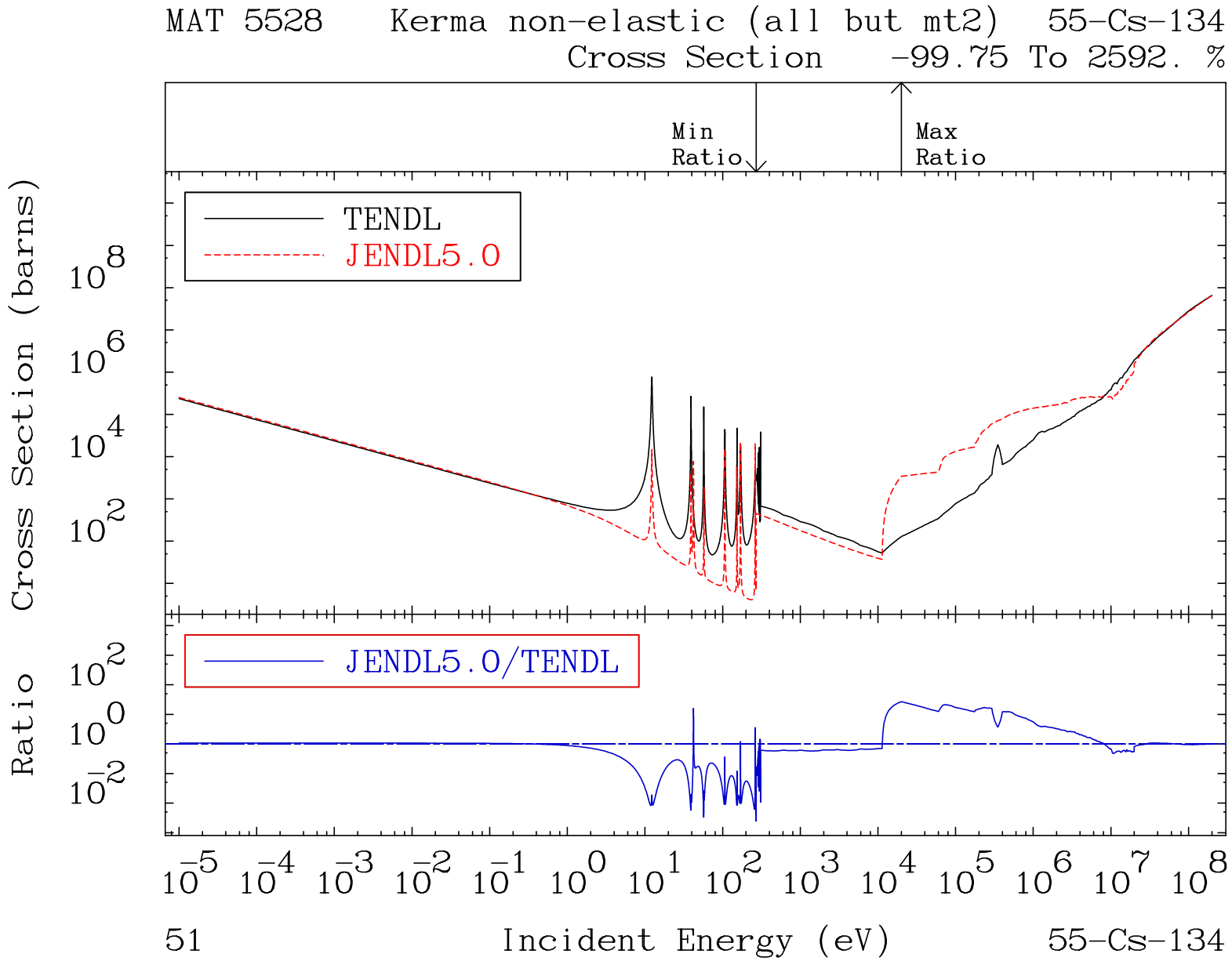

MAT 5528
Tritium Production
55-Cs-134
Cross Section -74.31 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.5245 MeV
JENDL5.0 Threshold 4.5230 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^4
10^2
10^0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
46
Incident Energy (eV)
55-Cs-134

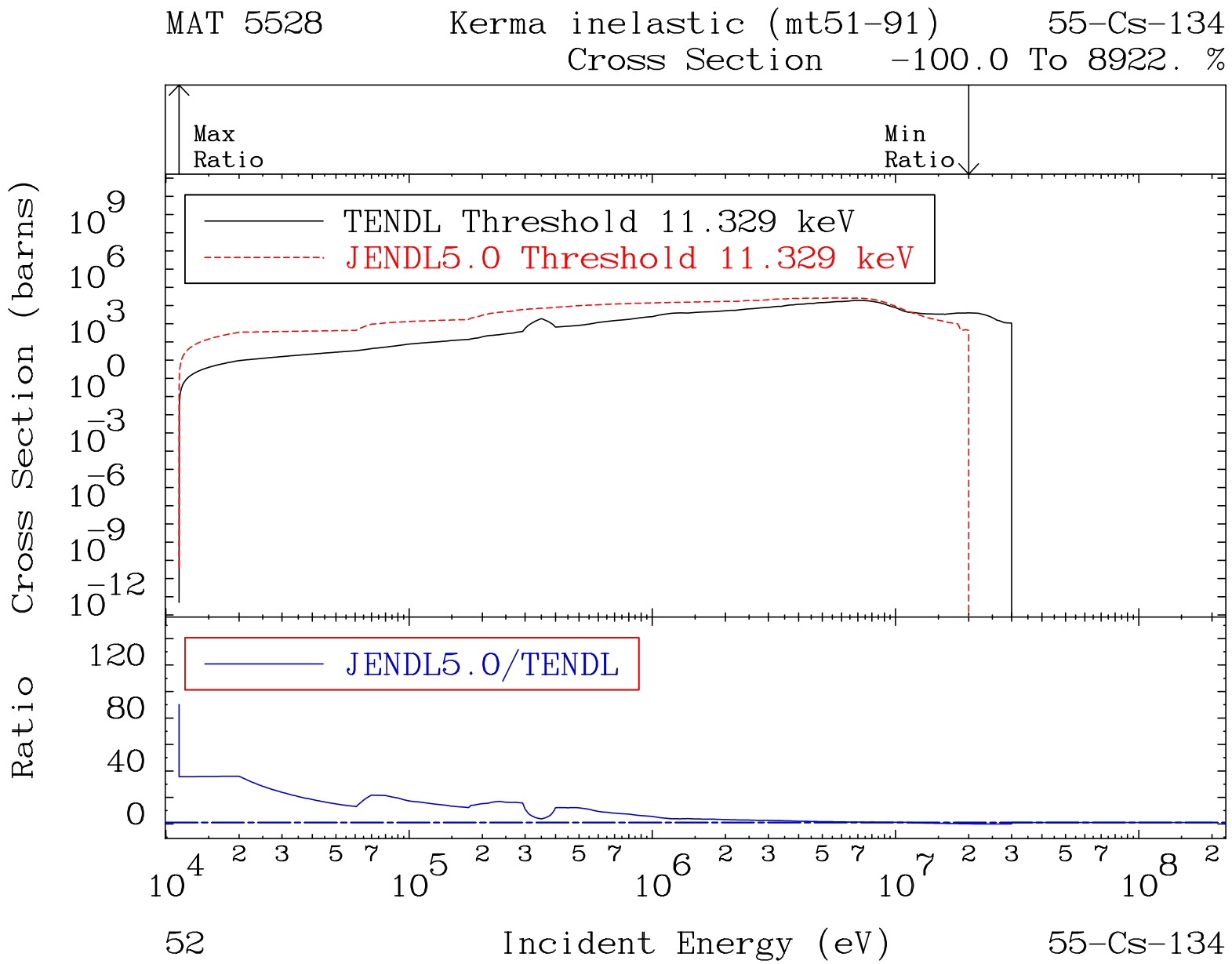

MAT 5528
He-3 Production
55-Cs-134
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.1082 MeV
JENDL5.0 Threshold 8.1118 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
400
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
55-Cs-134

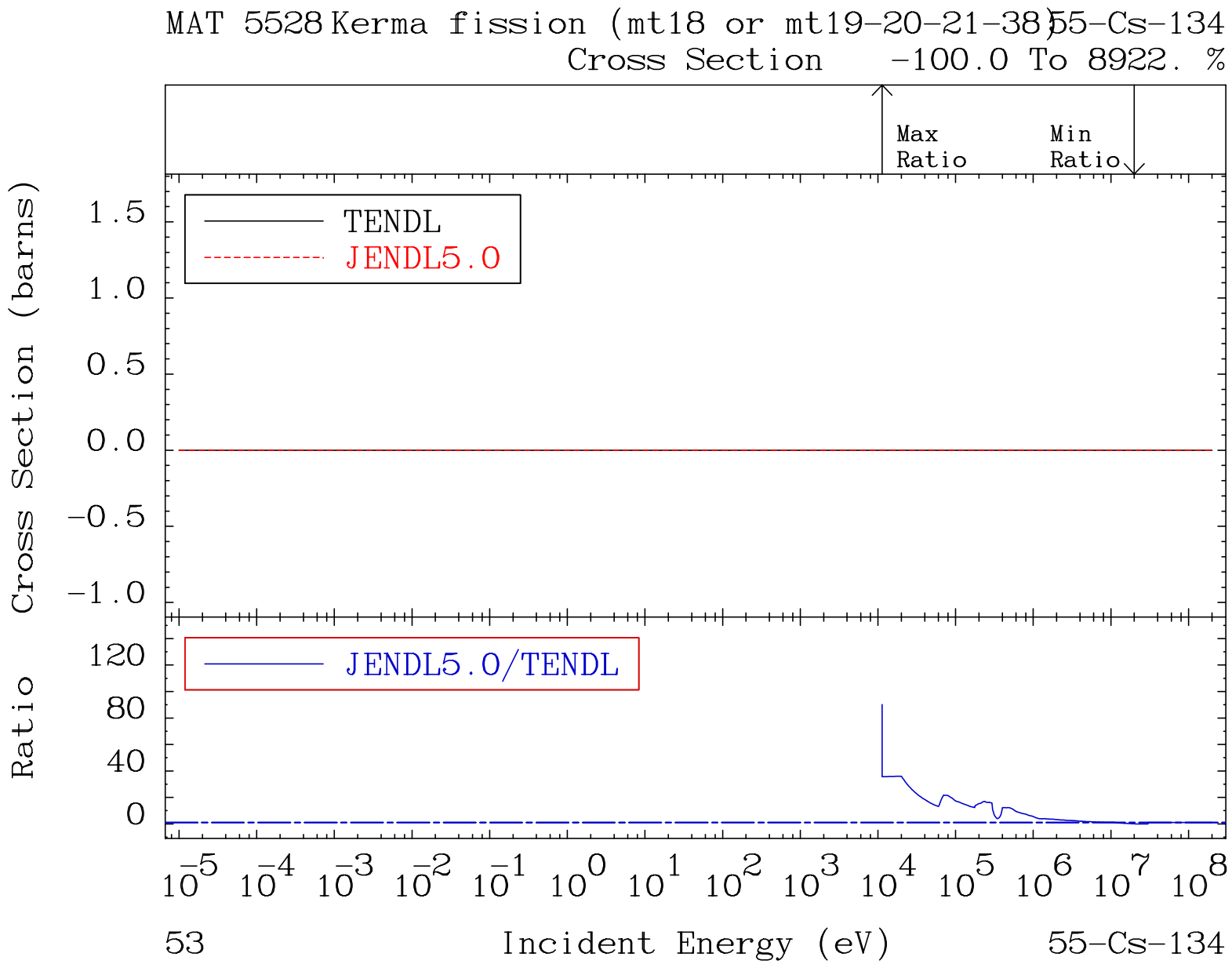

MAT 5528
He-4 Production
Cross Section
55-Cs-134
-76.93 To 1891. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
55-Cs-134

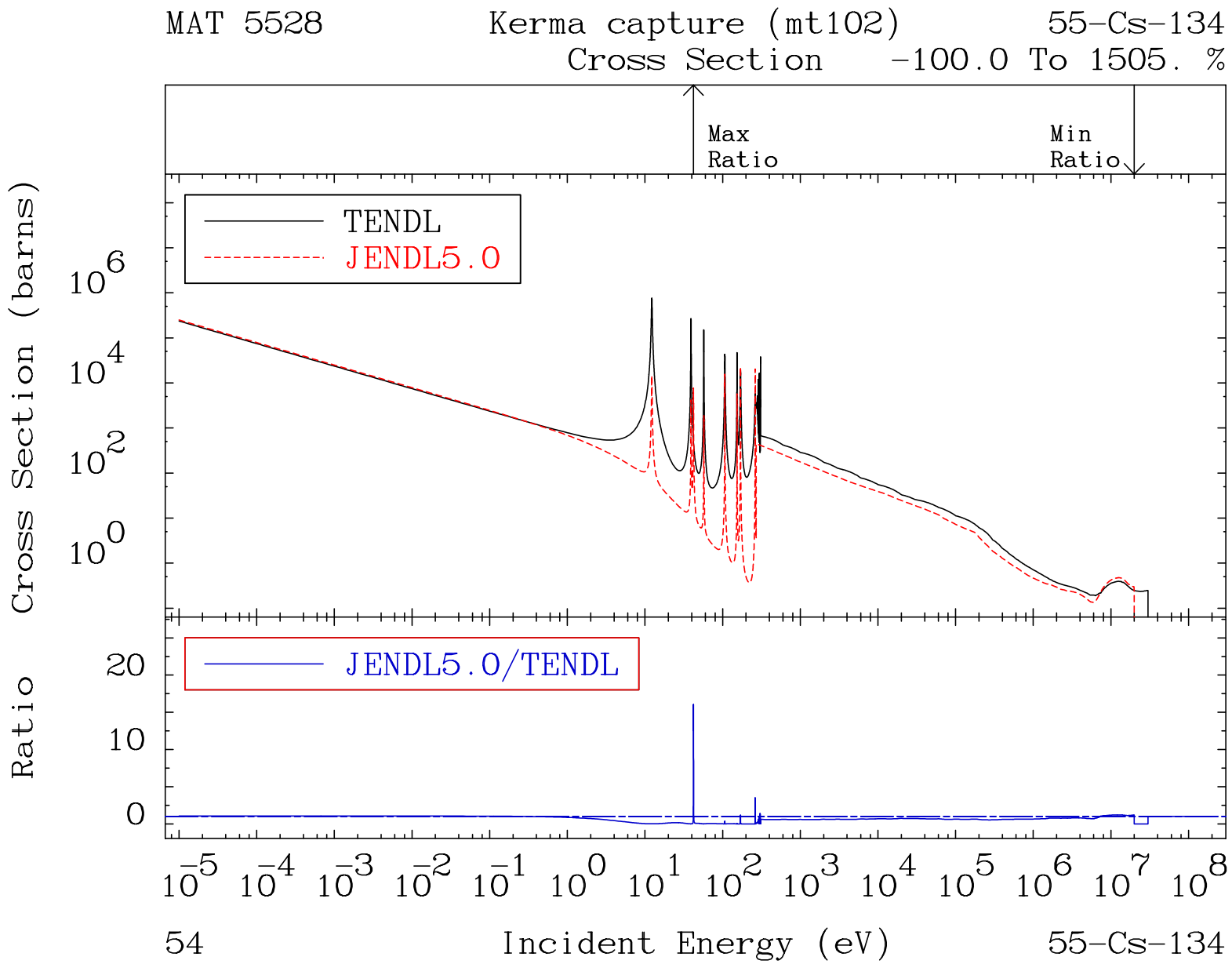

MAT 5528
Kerma total (eV-barns)
55-Cs-134
Cross Section -99.90 To 1494. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
49
55-Cs-134

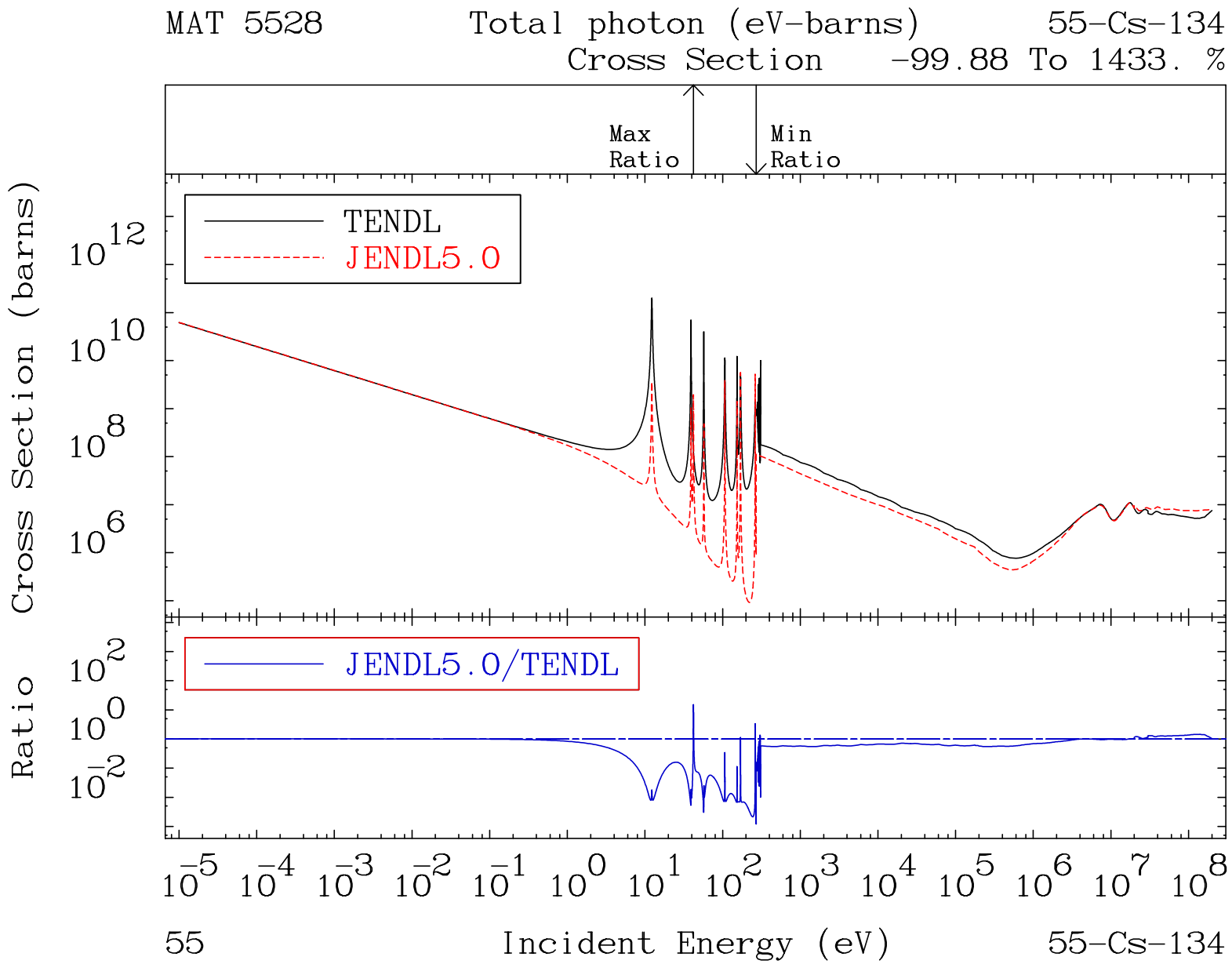

MAT 5528
Kerma elastic
Cross Section
55-Cs-134
-99.98 To 1033. %
Max
Ratio
Min
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
50
55-Cs-134

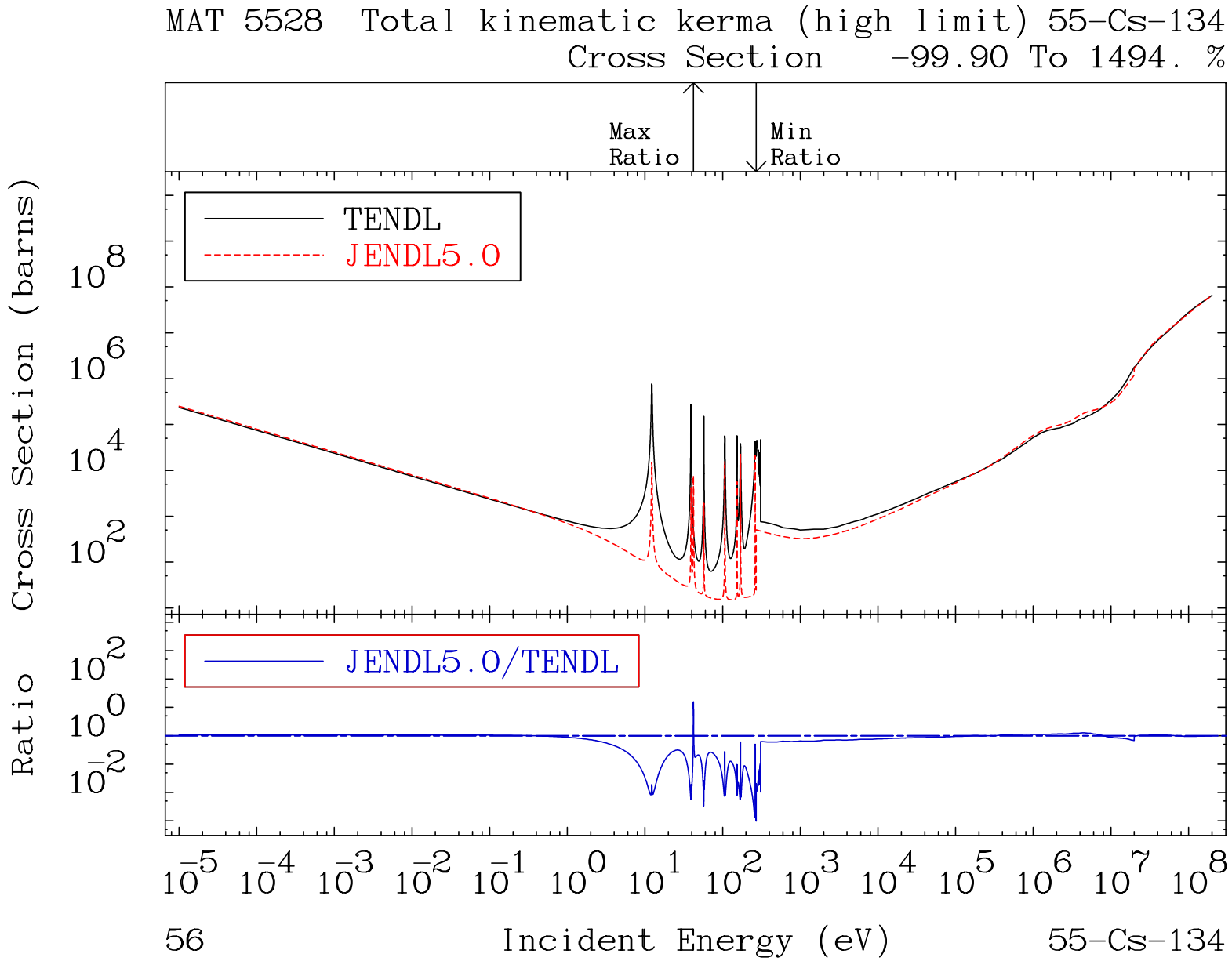

MAT 5528 Kerma non-elastic (all but mt2) 55-Cs-134
Cross Section -99.75 To 2592. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
51
55-Cs-134

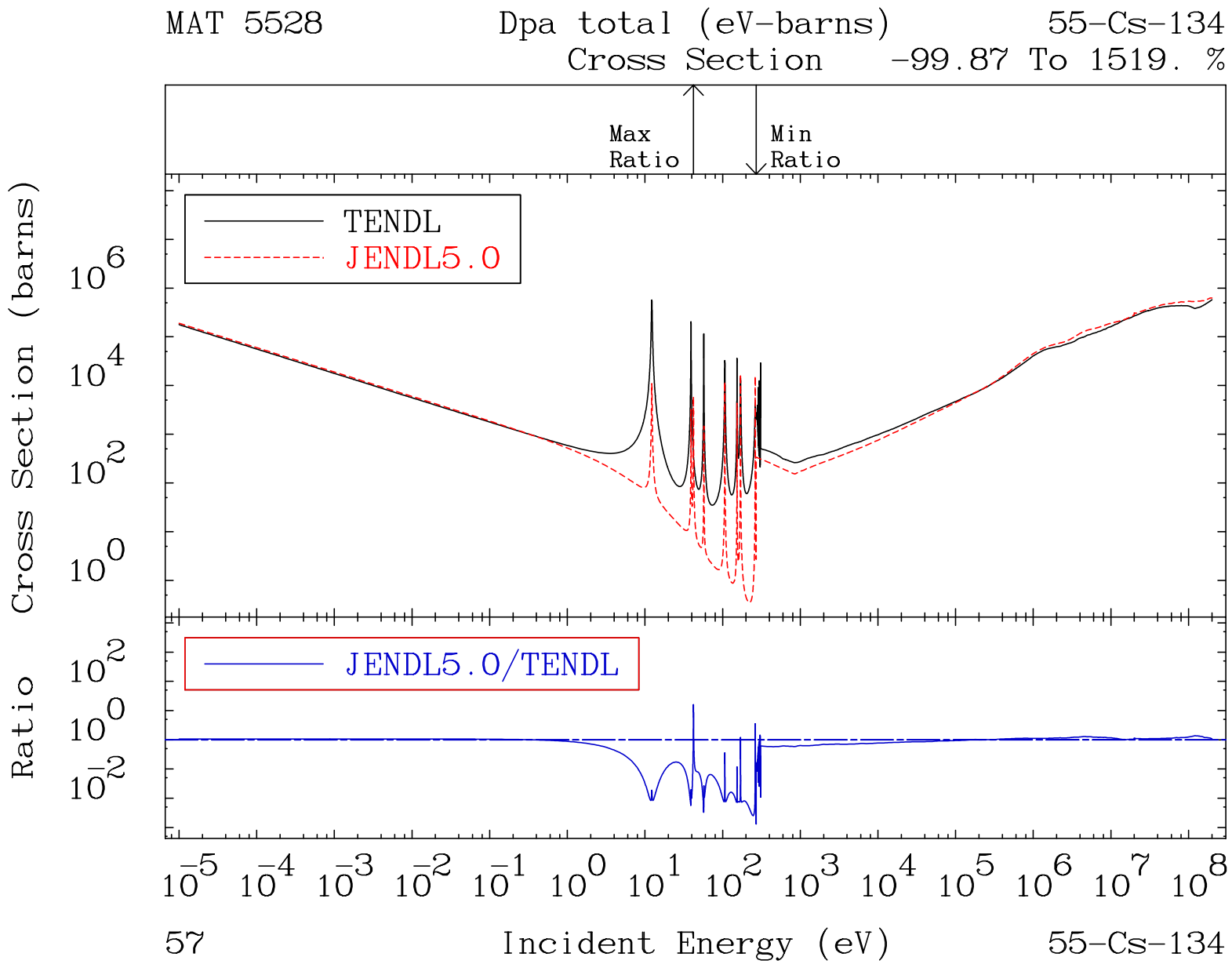

MAT 5528
Kerma inelastic (mt51-91)
55-Cs-134
Cross Section -100.0 To 8922. %
Max Ratio
Min Ratio
TENDL Threshold 11.329 keV
JENDL5.0 Threshold 11.329 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
52
55-Cs-134

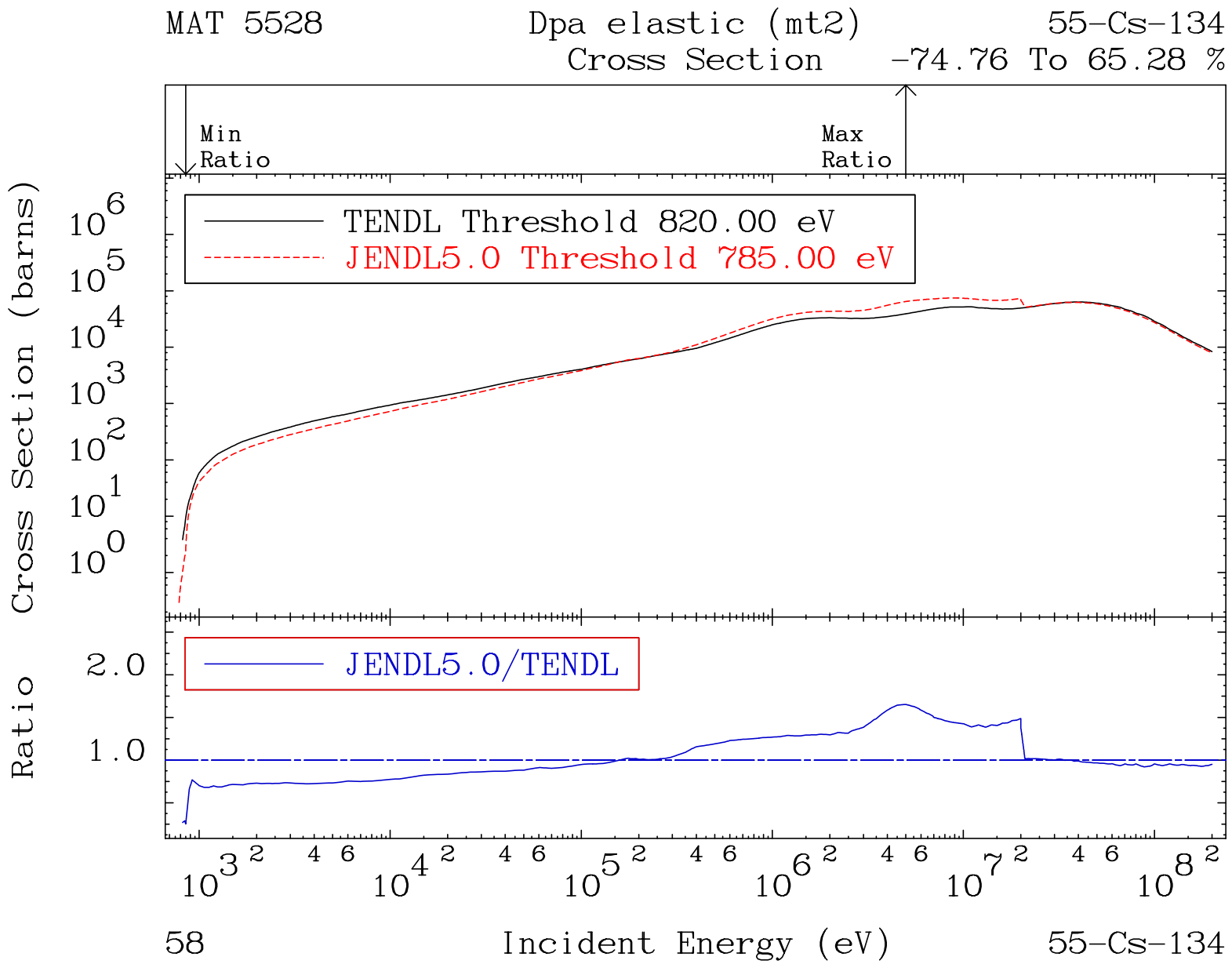

MAT 5528 Kerma fission (mt18 or mt19-20-21-38) 55-Cs-134
Cross Section -100.0 To 8922. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
120
80
40
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
53
Incident Energy (eV)
55-Cs-134

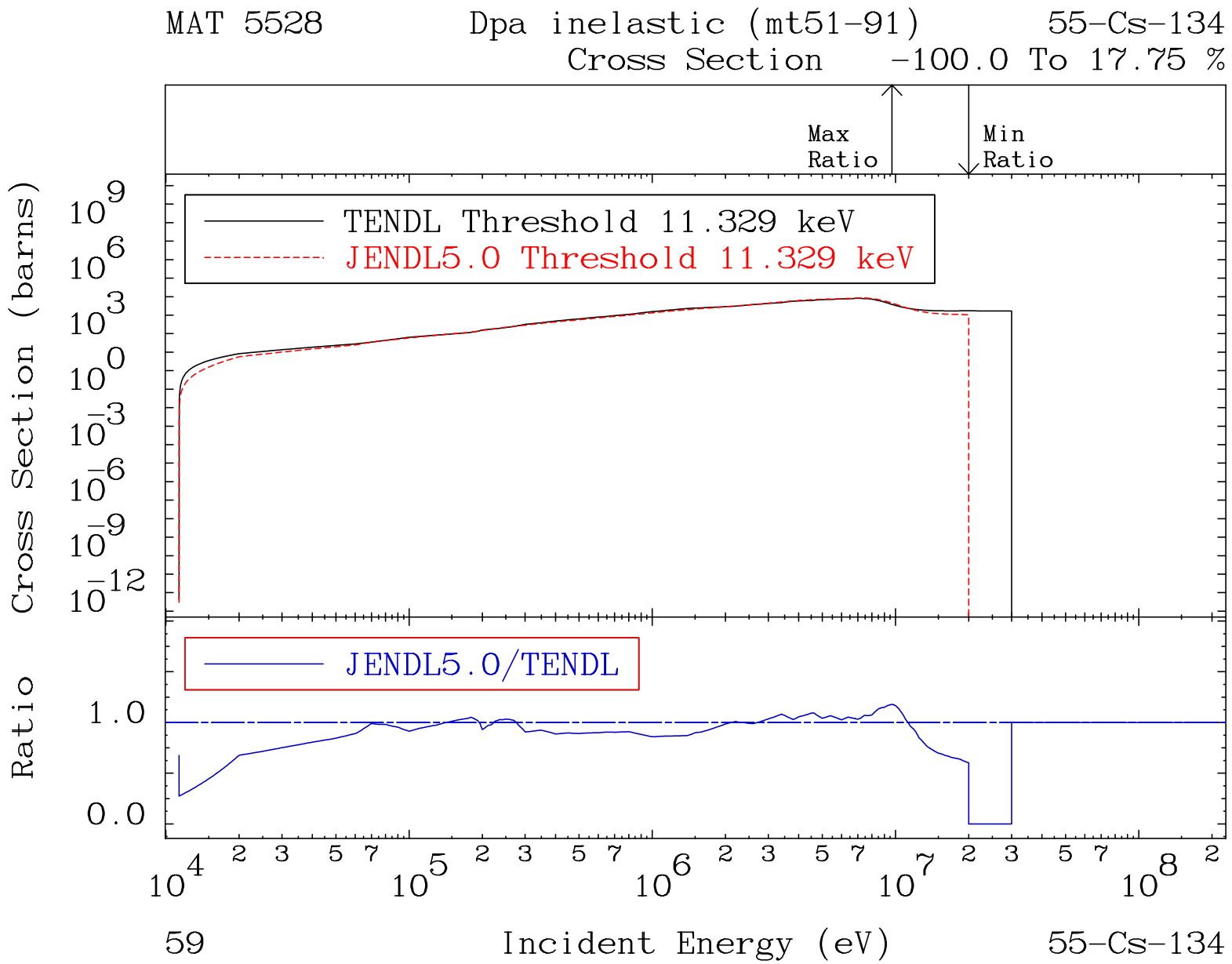

MAT 5528
Kerma capture (mt102)
55-Cs-134
Cross Section -100.0 To 1505. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
JENDL5.0/TENDL
Ratio
20
10
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
54
Incident Energy (eV)
55-Cs-134

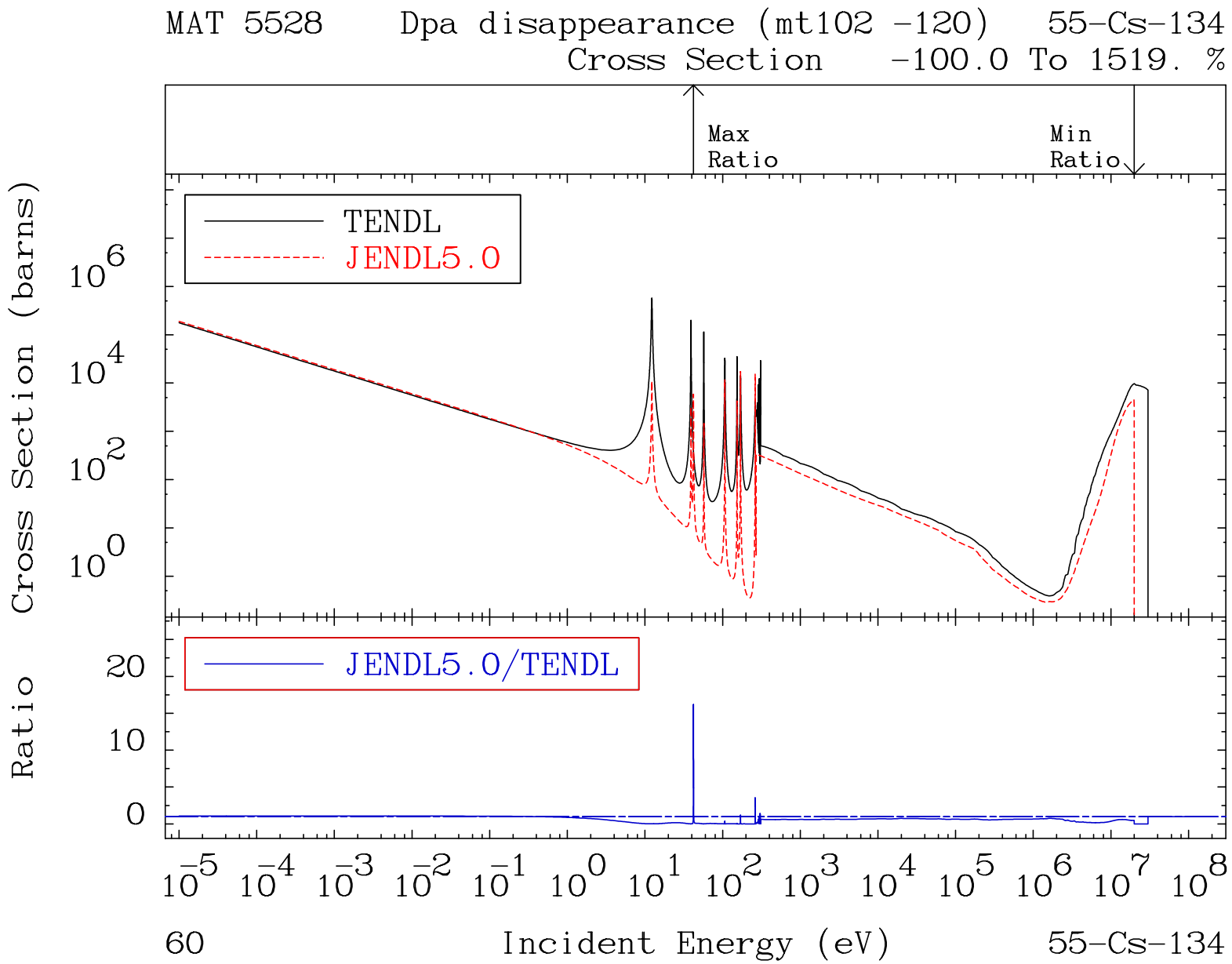

MAT 5528
Total photon (eV-barns)
55-Cs-134
Cross Section -99.88 To 1433. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
55-Cs-134

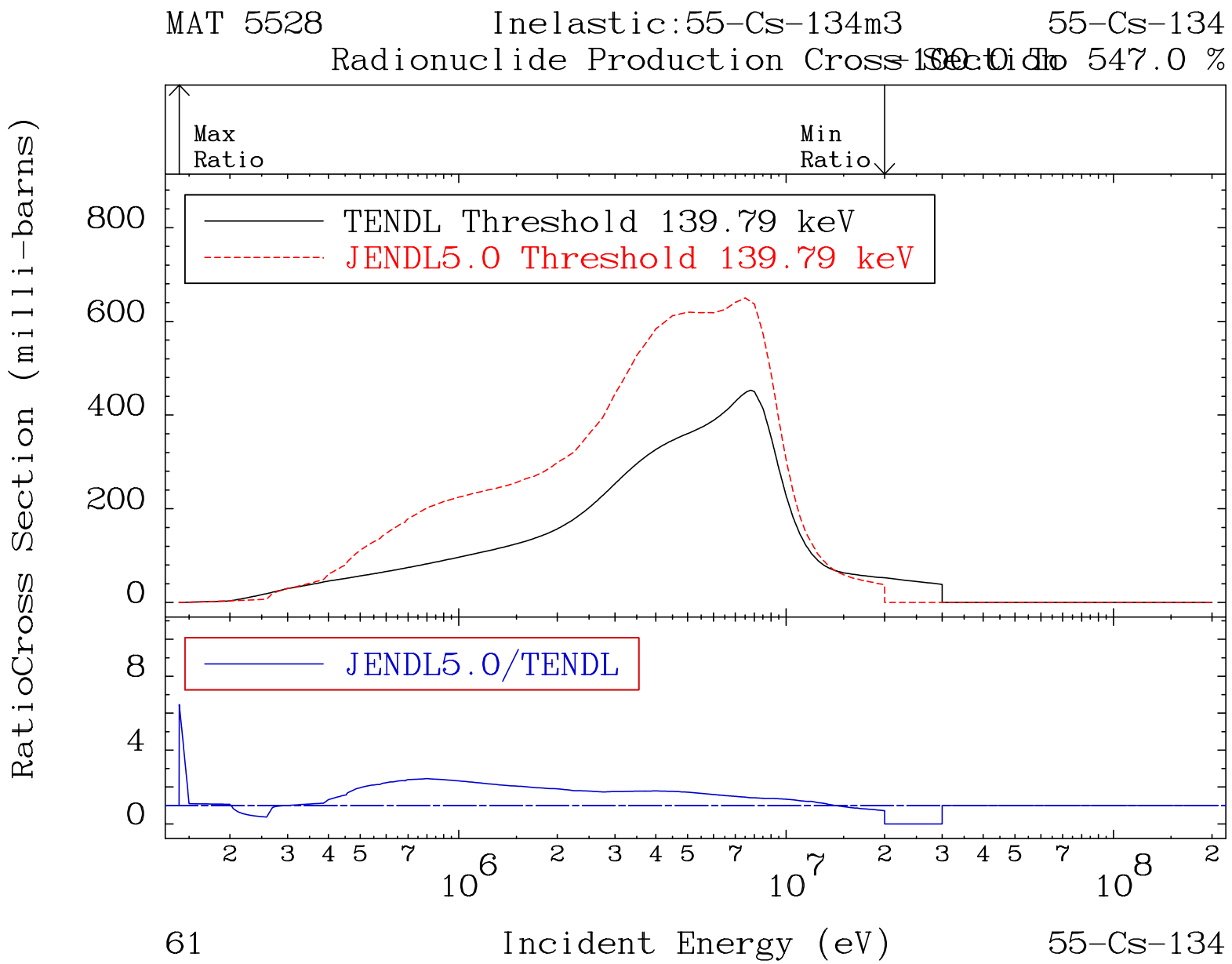

MAT 5528 Total kinematic kerma (high limit) 55-Cs-134
Cross Section -99.90 To 1494. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
55-Cs-134

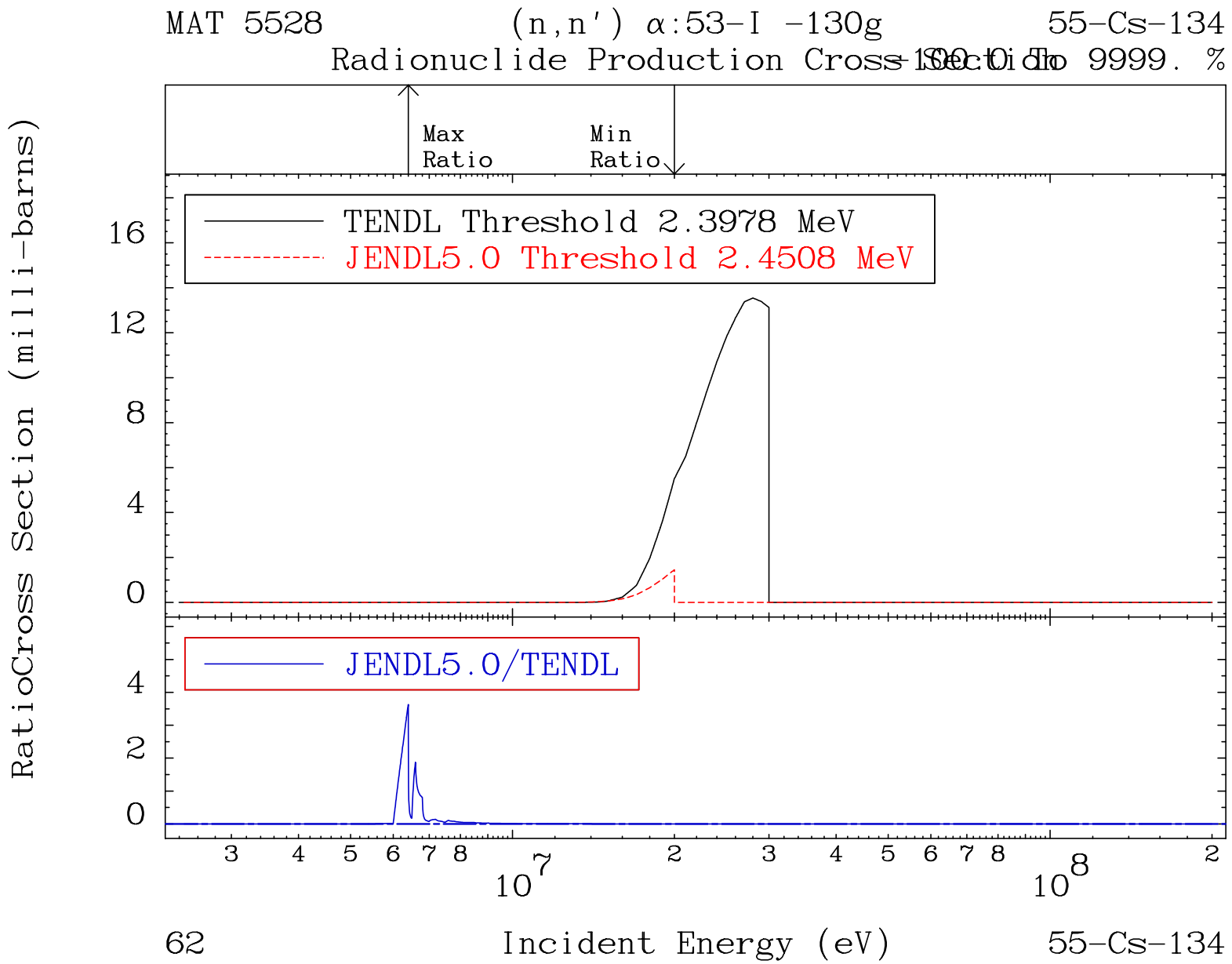

MAT 5528
Dpa total (eV-barns)
55-Cs-134
Cross Section -99.87 To 1519. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
57
55-Cs-134

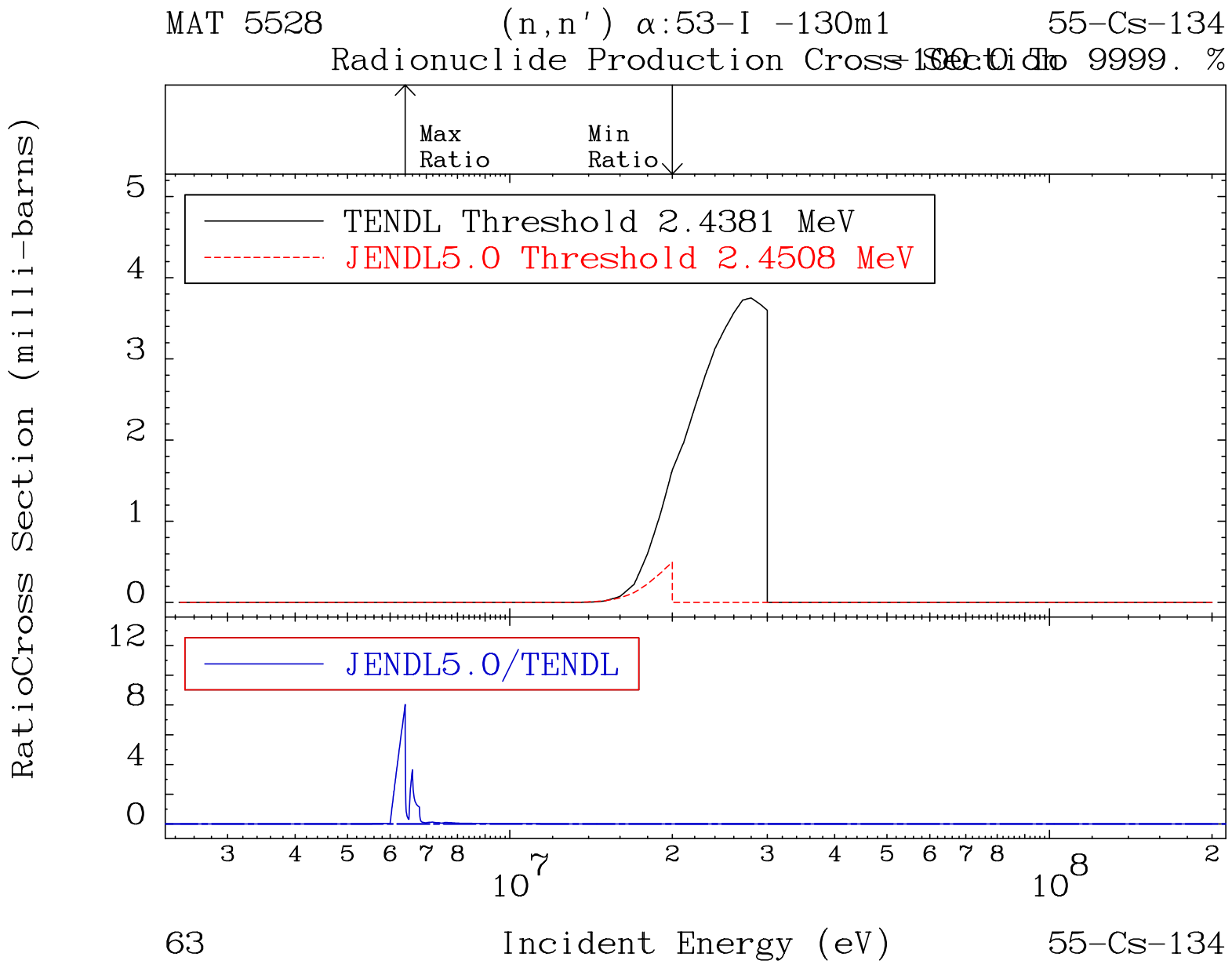

MAT 5528
Dpa elastic (mt2)
Cross Section
55-Cs-134
-74.76 To 65.28 %
Min
Ratio
Max
Ratio
TENDL Threshold 820.00 eV
JENDL5.0 Threshold 785.00 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
55-Cs-134

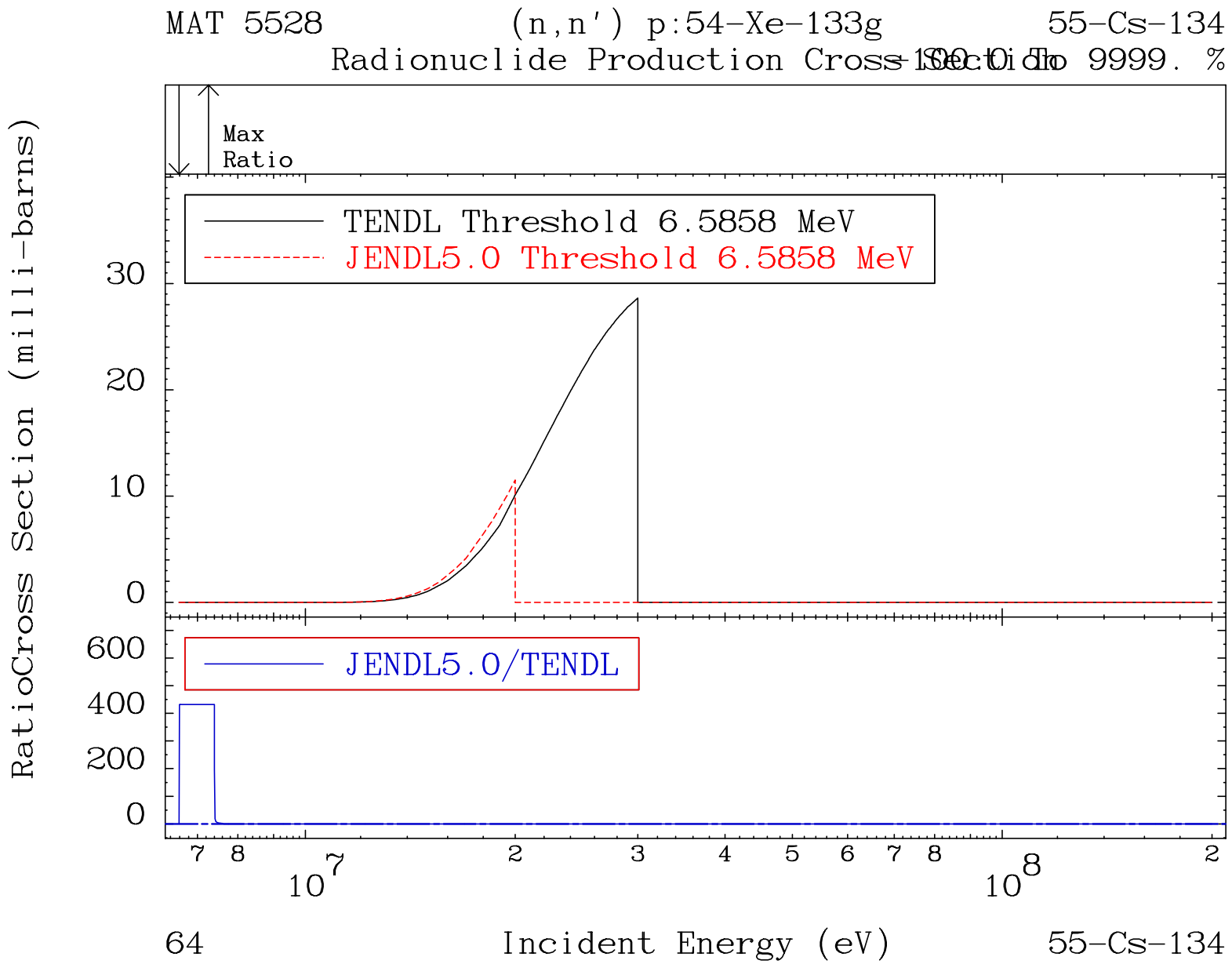

MAT 5528
Dpa inelastic (mt51-91)
55-Cs-134
Cross Section -100.0 To 17.75 %
Max Ratio
Min Ratio
TENDL Threshold 11.329 keV
JENDL5.0 Threshold 11.329 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
59
55-Cs-134

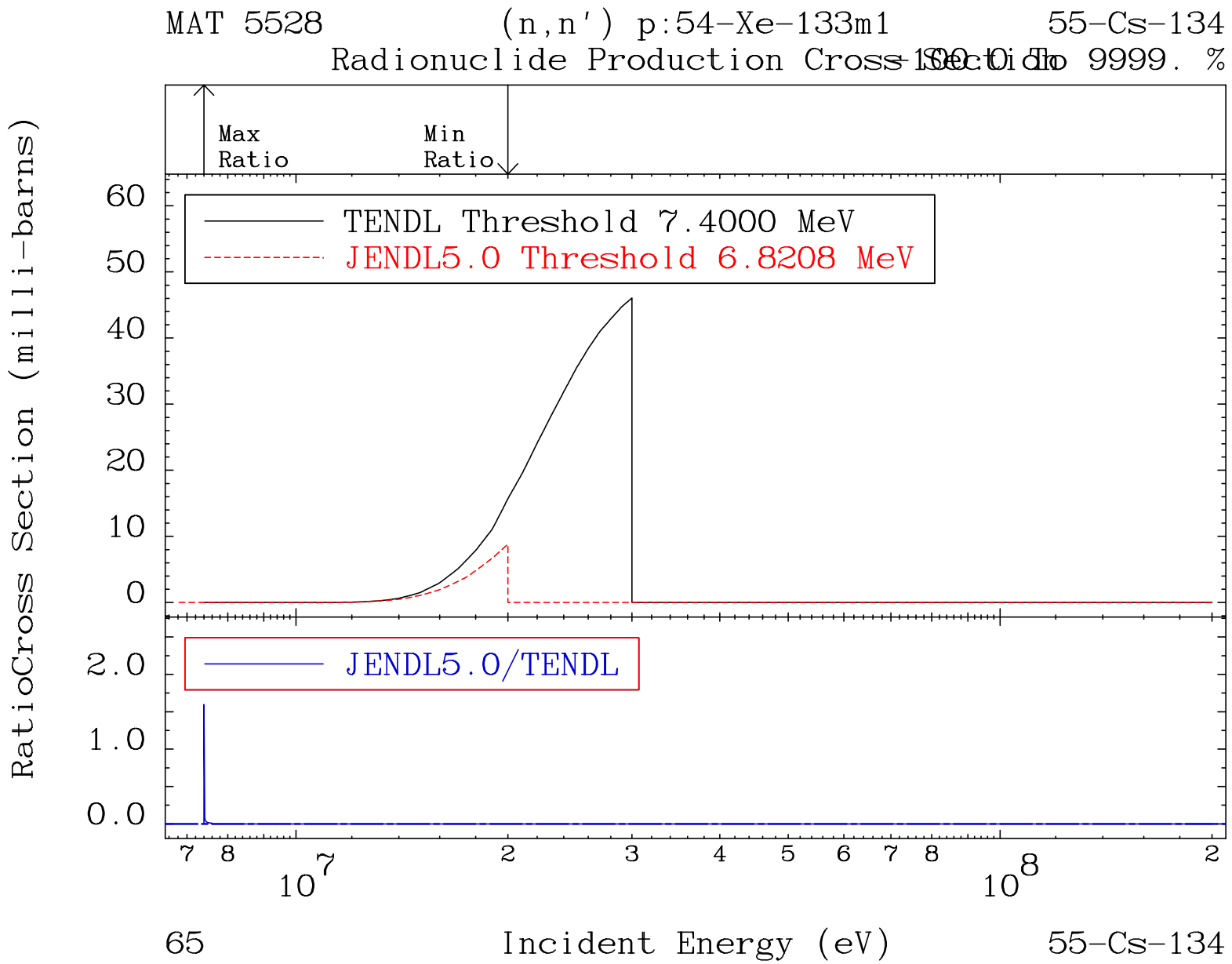

MAT 5528 Dpa disappearance (mt102 -120) 55-Cs-134
Cross Section -100.0 To 1519. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^6
10^4
10^2
10^0
JENDL5.0/TENDL
Ratio
20
10
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
60
Incident Energy (eV)
55-Cs-134

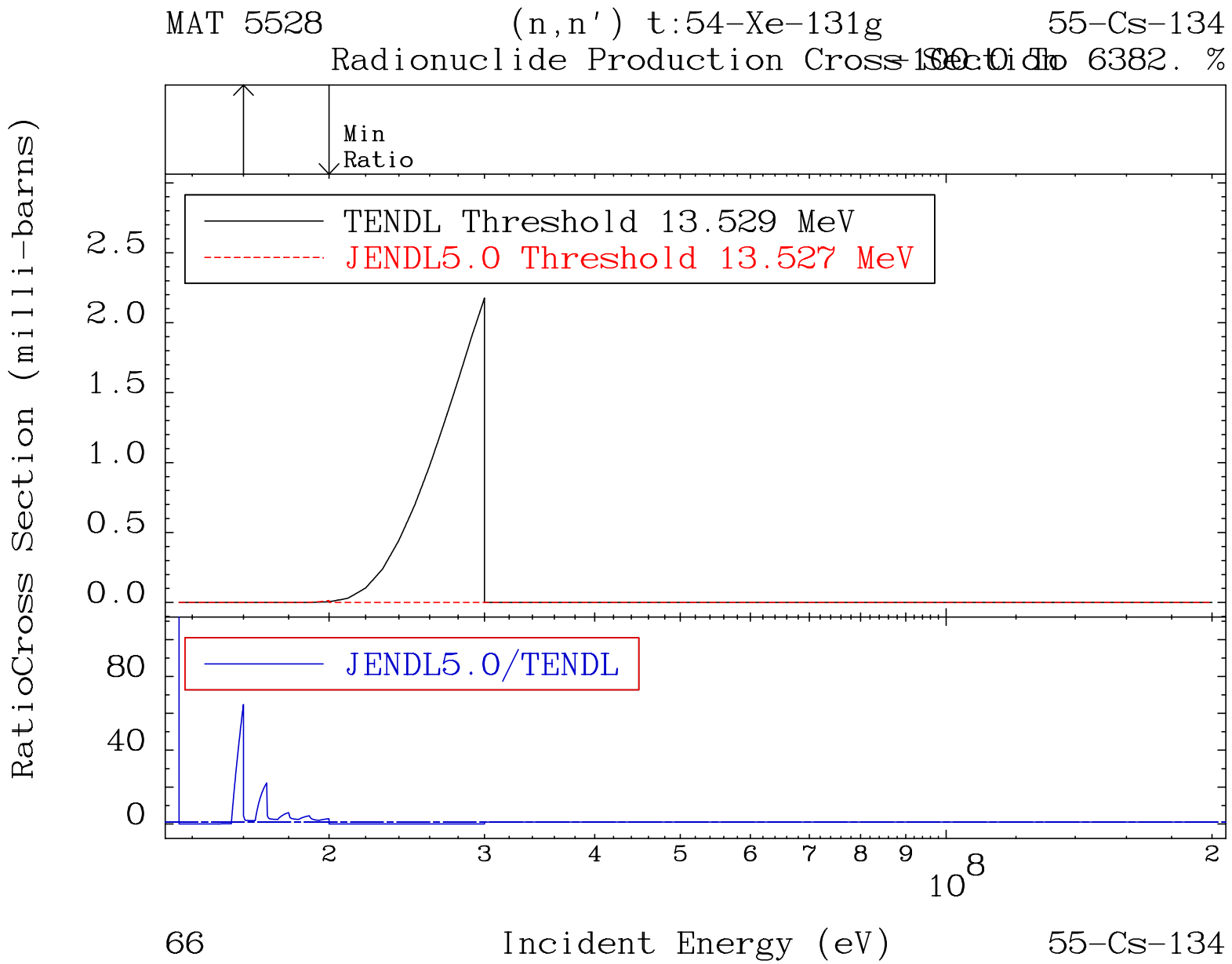

MAT 5528
Inelastic:55-Cs-134m3
55-Cs-134
Radionuclide Production Cross Section To 547.0 %
Max Ratio
Min Ratio
TENDL Threshold 139.79 keV
JENDL5.0 Threshold 139.79 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
8
4
0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
61
Incident Energy (eV)
55-Cs-134

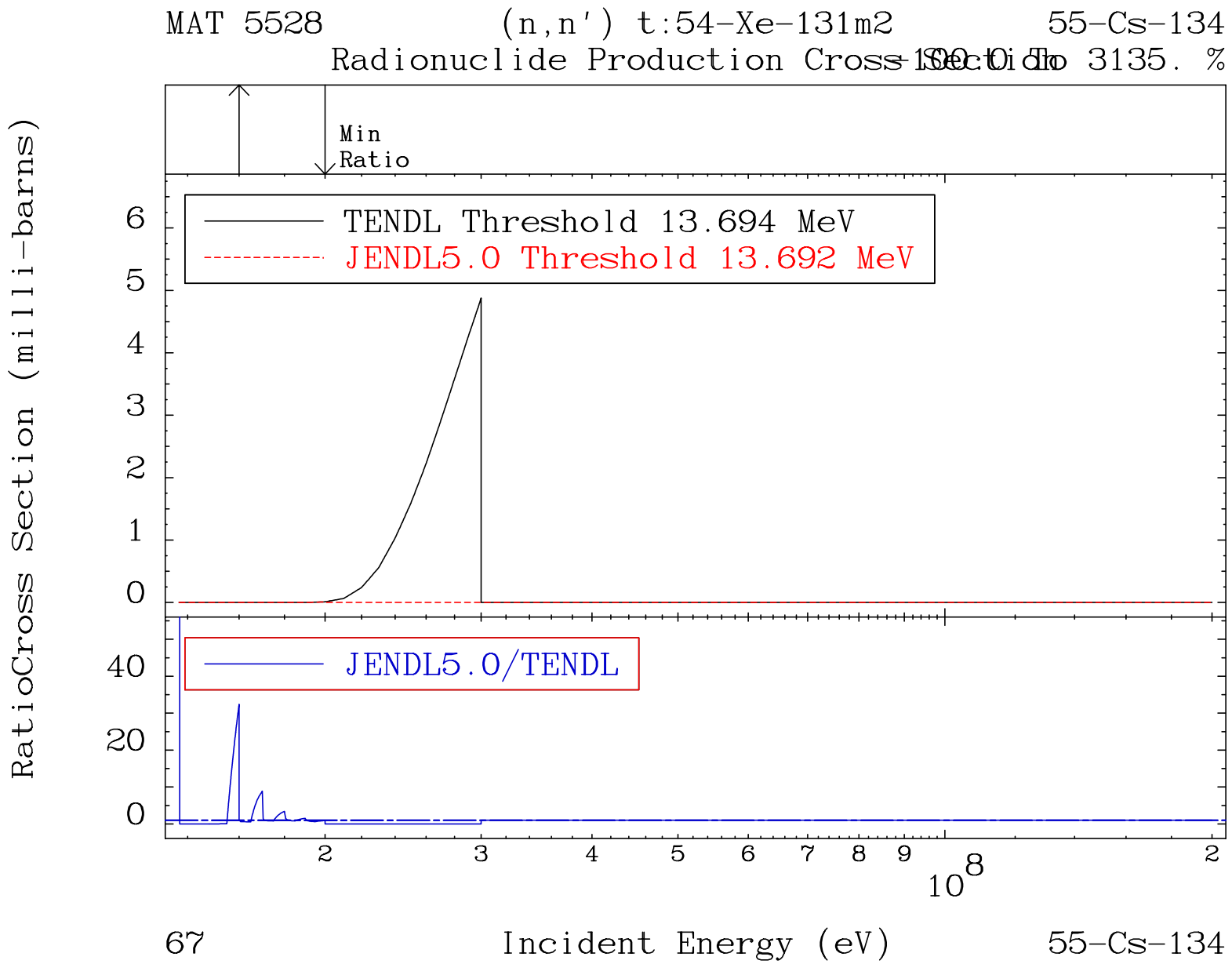

MAT 5528
(n,n') α:53-I -130g
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3978 MeV
JENDL5.0 Threshold 2.4508 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
62
Incident Energy (eV)
55-Cs-134

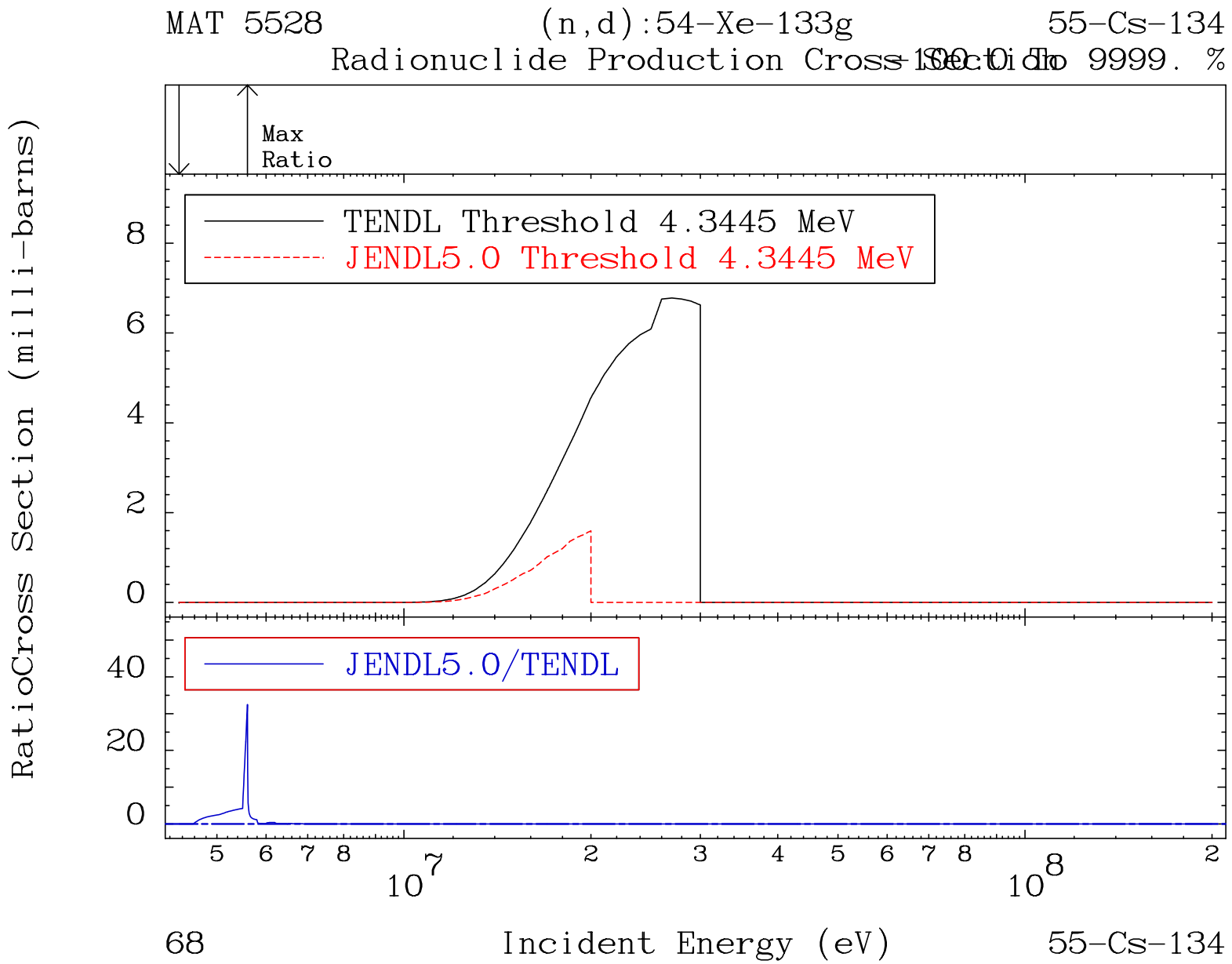

MAT 5528
(n,n') α:53-I -130m1
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.4381 MeV
JENDL5.0 Threshold 2.4508 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
63
55-Cs-134

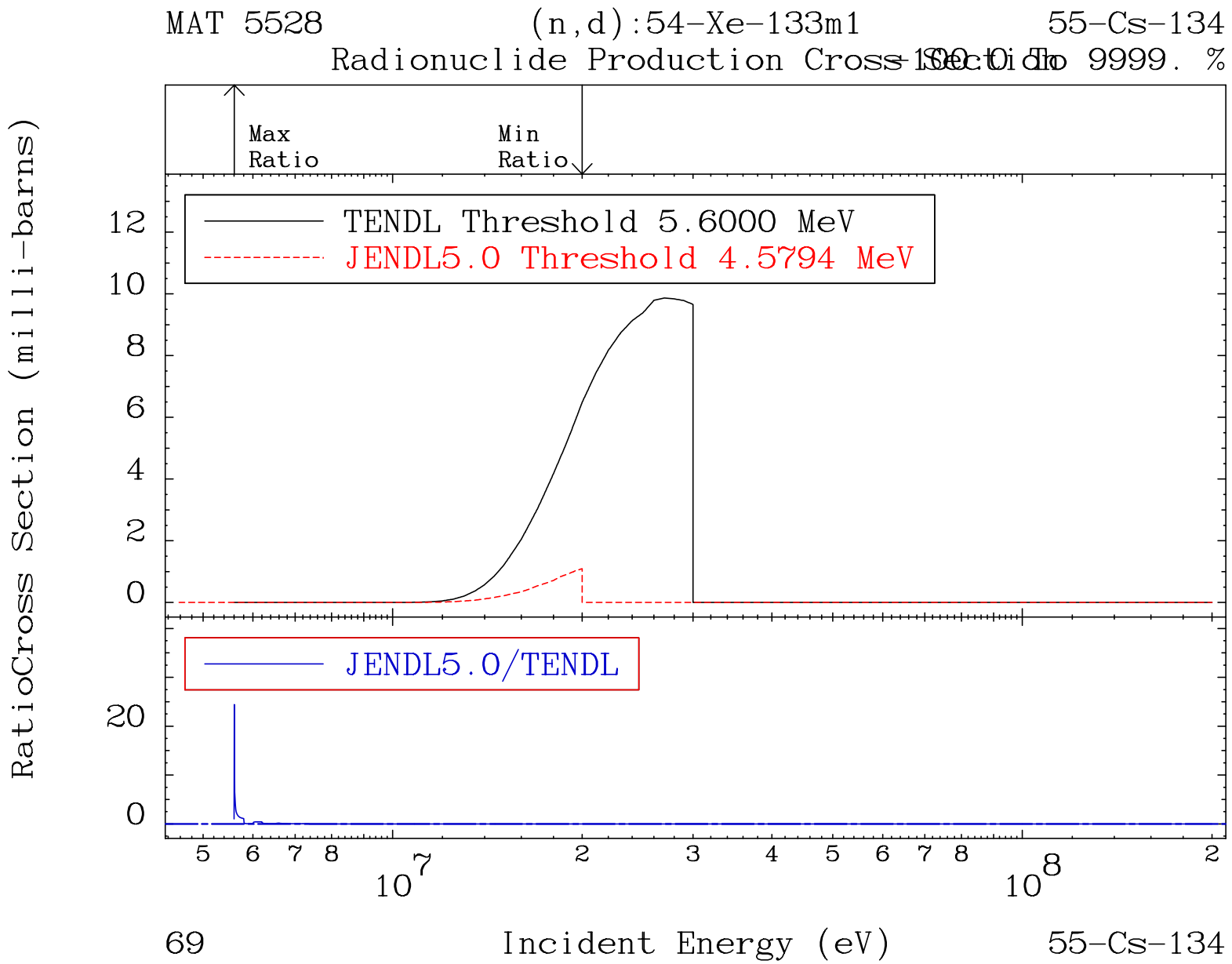

MAT 5528
(n,n') p:54-Xe-133g
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 6.5858 MeV
JENDL5.0 Threshold 6.5858 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
600
400
200
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
64
Incident Energy (eV)
55-Cs-134

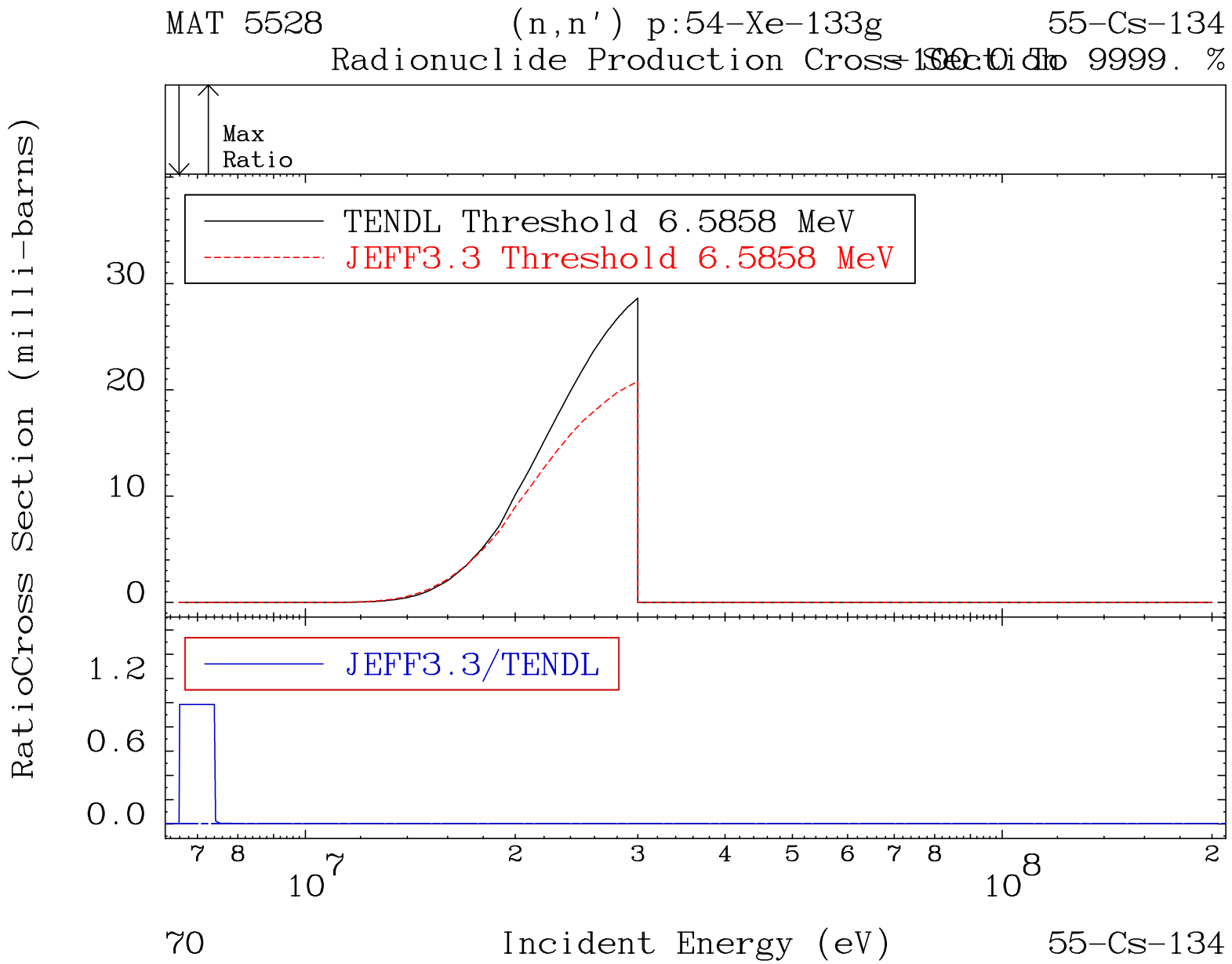

MAT 5528
(n,n') p:54-Xe-133m1
55-Cs-134
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 7.4000 MeV
JENDL5.0 Threshold 6.8208 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
65
55-Cs-134

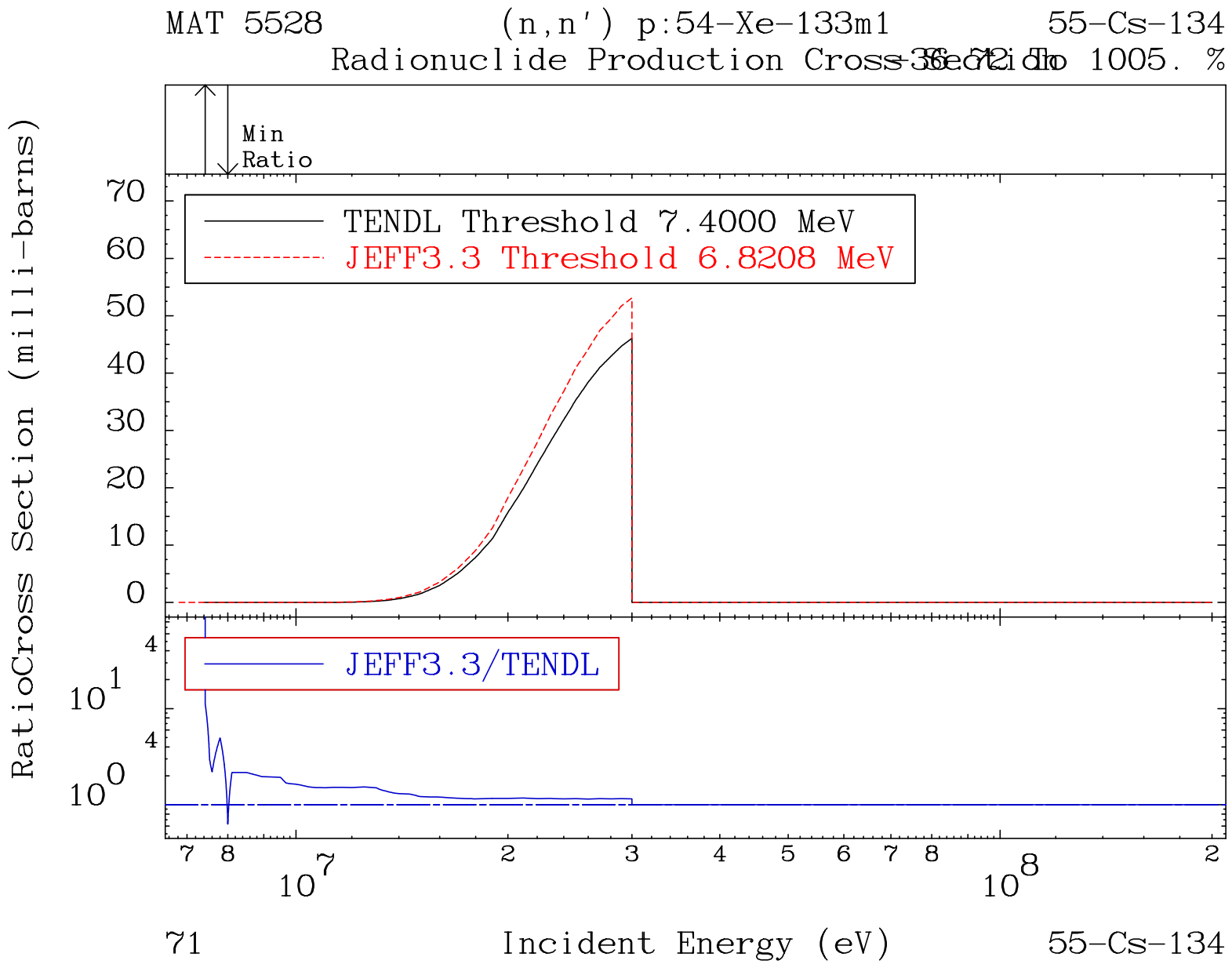

MAT 5528
(n,n') t:54-Xe-131g
55-Cs-134
Radionuclide Production Cross Section To 6382. %
Min
Ratio
TENDL Threshold 13.529 MeV
JENDL5.0 Threshold 13.527 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
66
Incident Energy (eV)
55-Cs-134

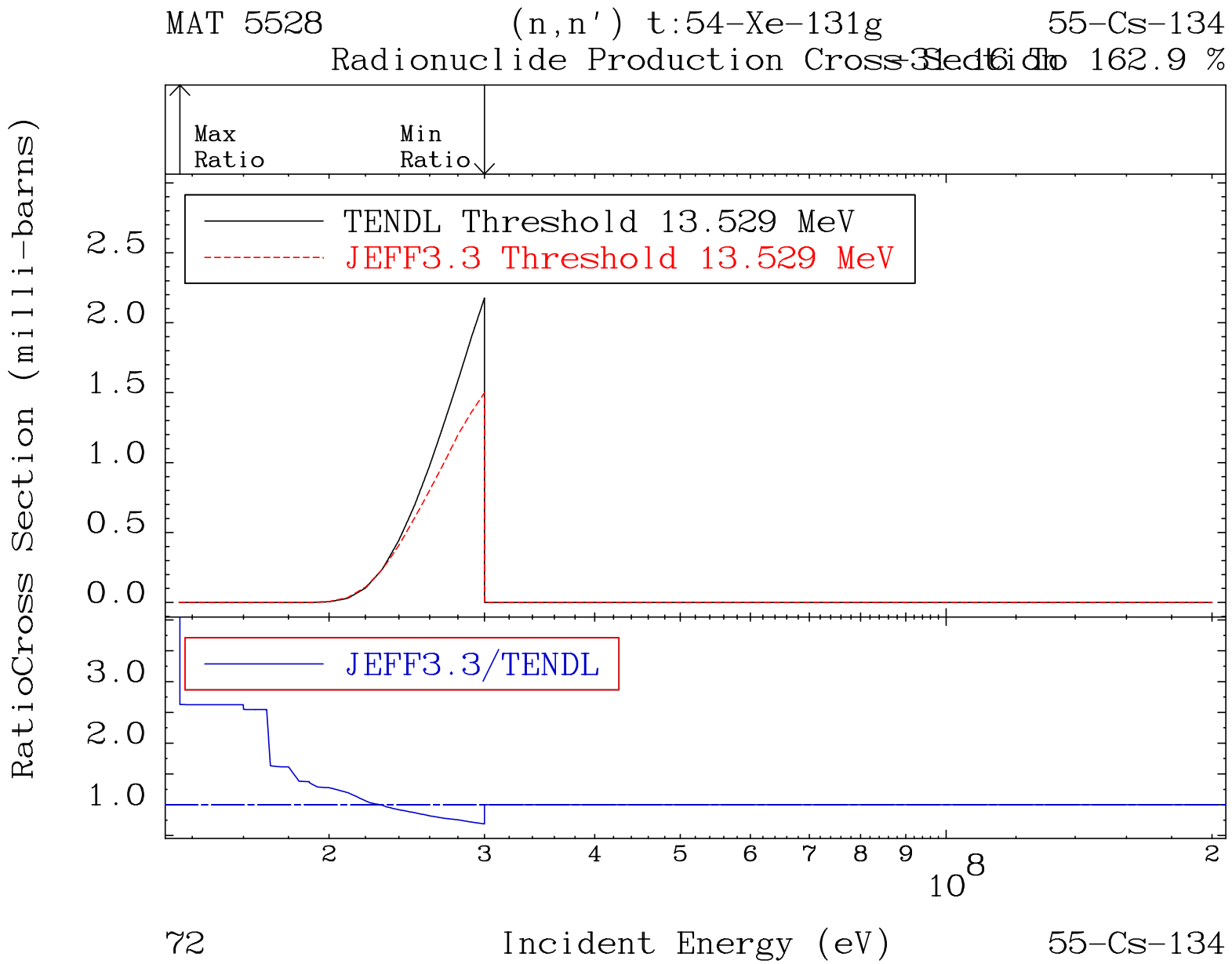

MAT 5528
(n,n') t:54-Xe-131m2
55-Cs-134
Radionuclide Production Cross Section To 3135. %
Min
Ratio
TENDL Threshold 13.694 MeV
JENDL5.0 Threshold 13.692 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
67
55-Cs-134

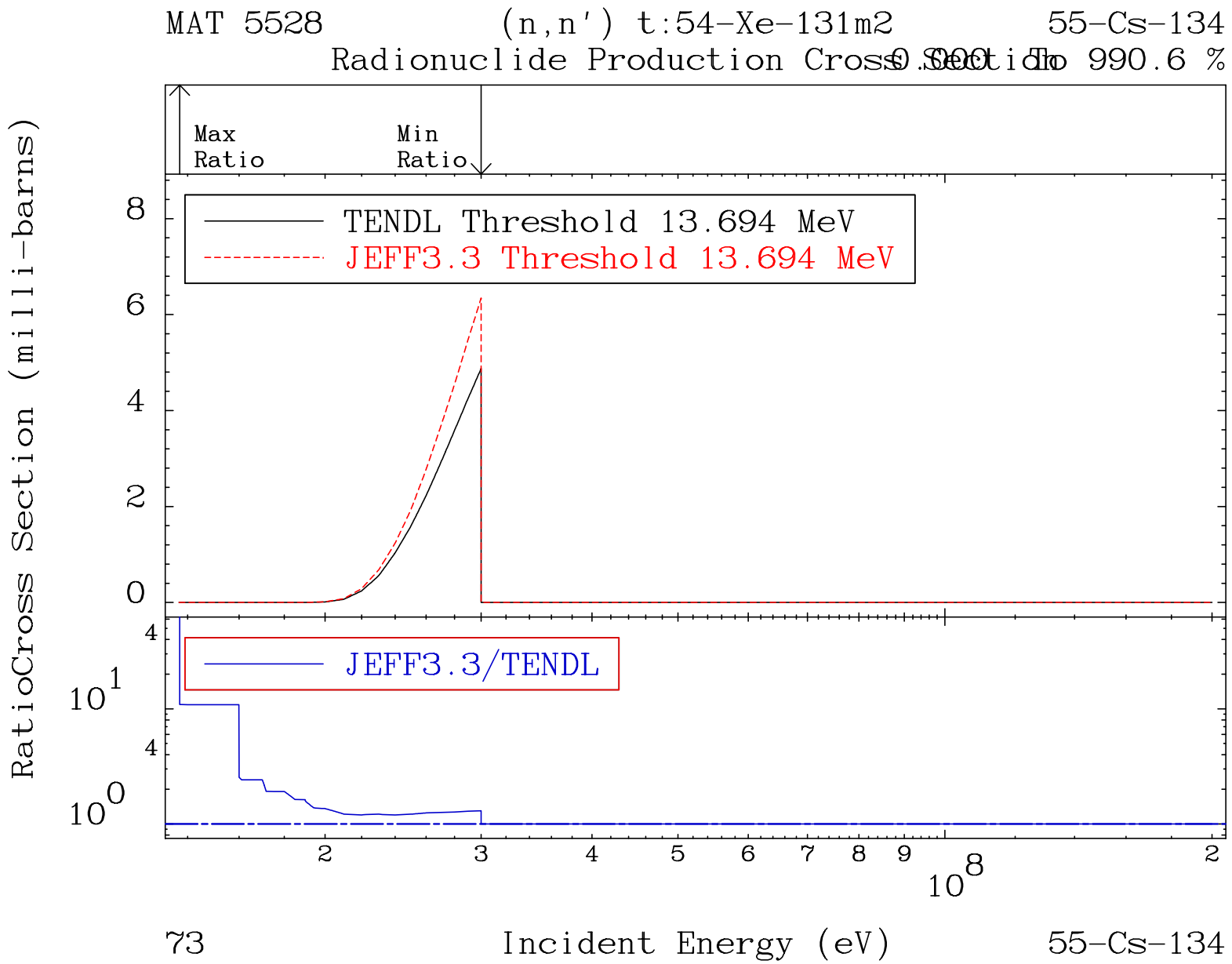

MAT 5528
(n,d):54-Xe-133g
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 4.3445 MeV
JENDL5.0 Threshold 4.3445 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
40
20
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
68
Incident Energy (eV)
55-Cs-134

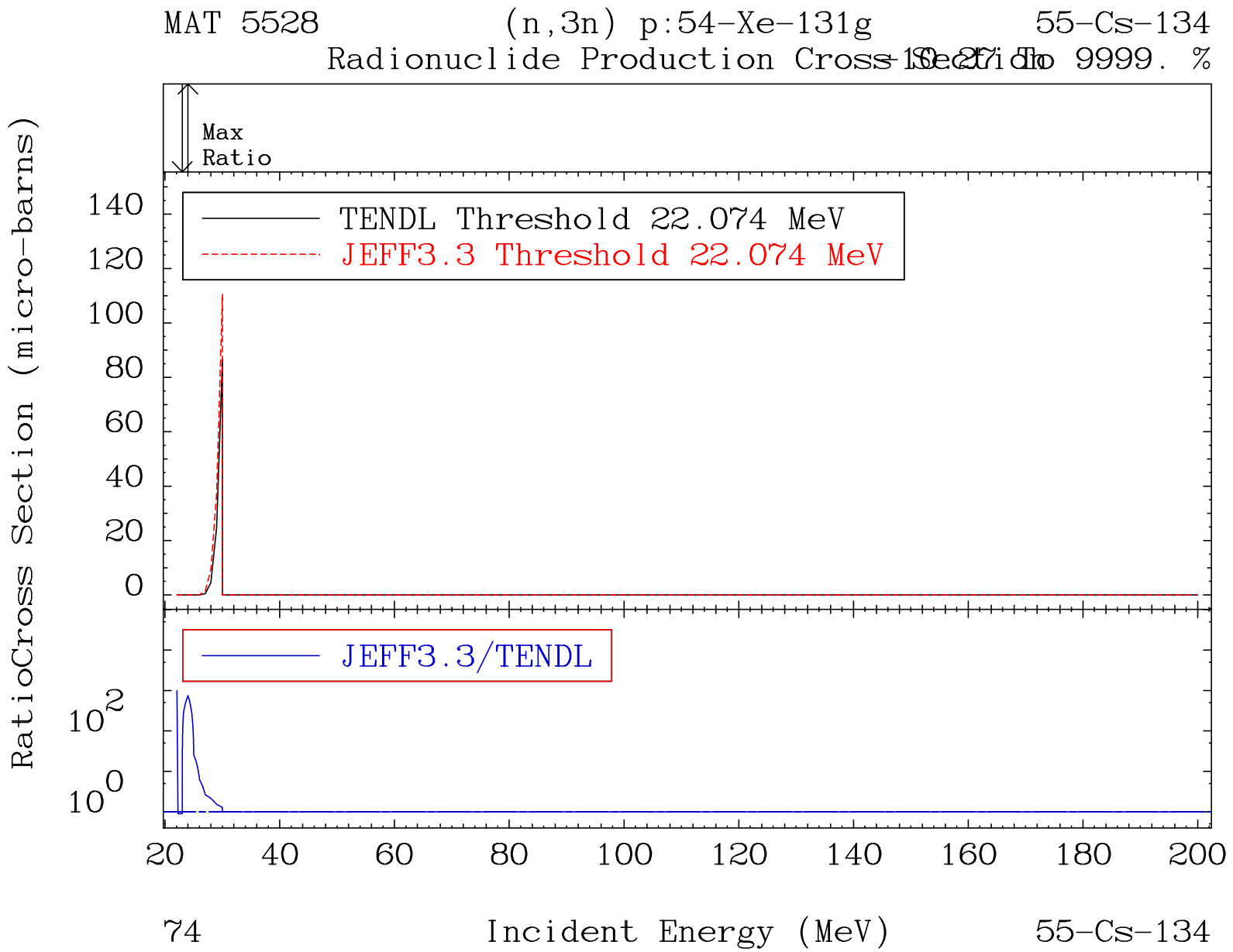

MAT 5528
(n,d):54-Xe-133m1
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.6000 MeV
JENDL5.0 Threshold 4.5794 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
55-Cs-134

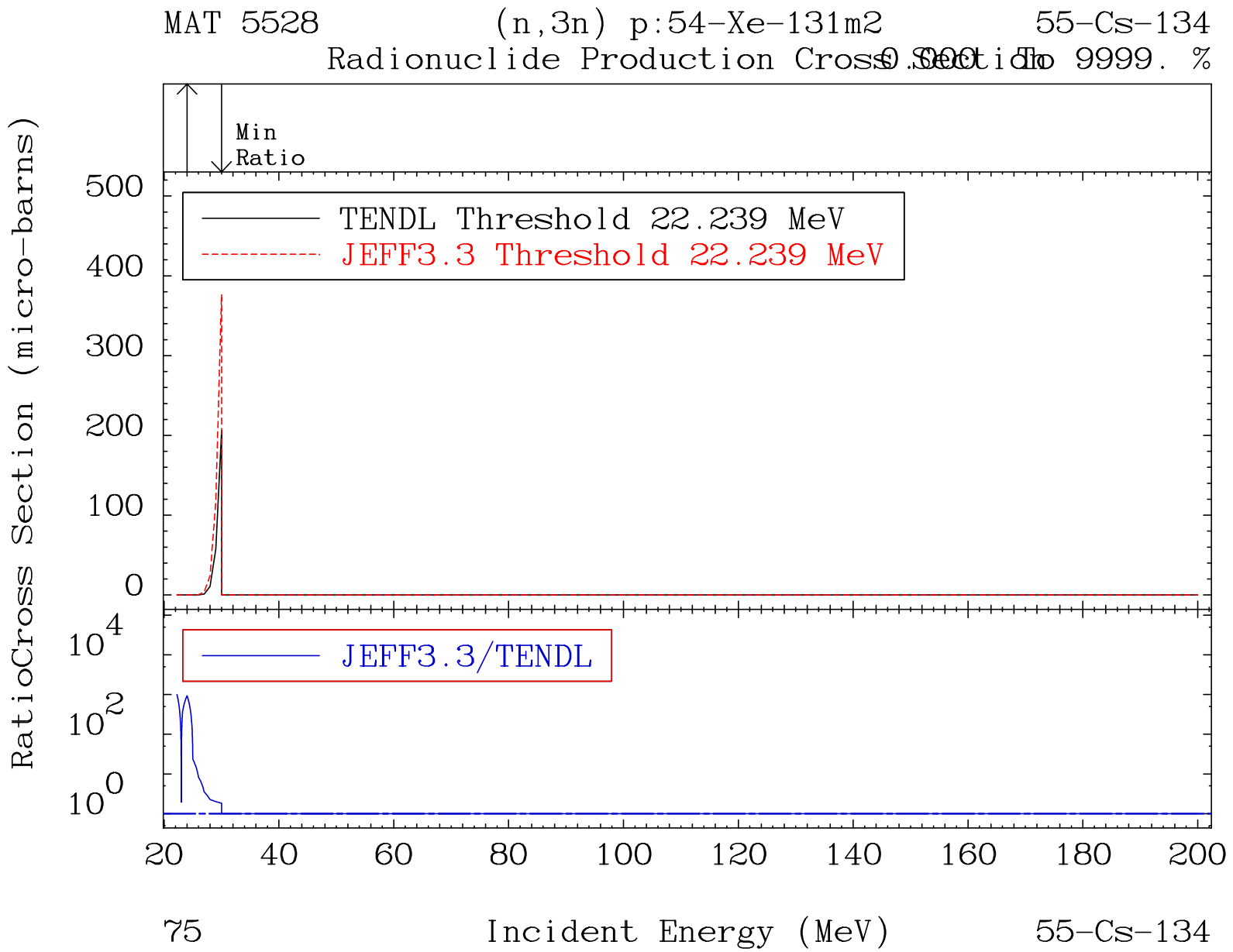

MAT 5528
(n,n') p:54-Xe-133g
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 6.5858 MeV
JEFF3.3 Threshold 6.5858 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
70
Incident Energy (eV)
55-Cs-134

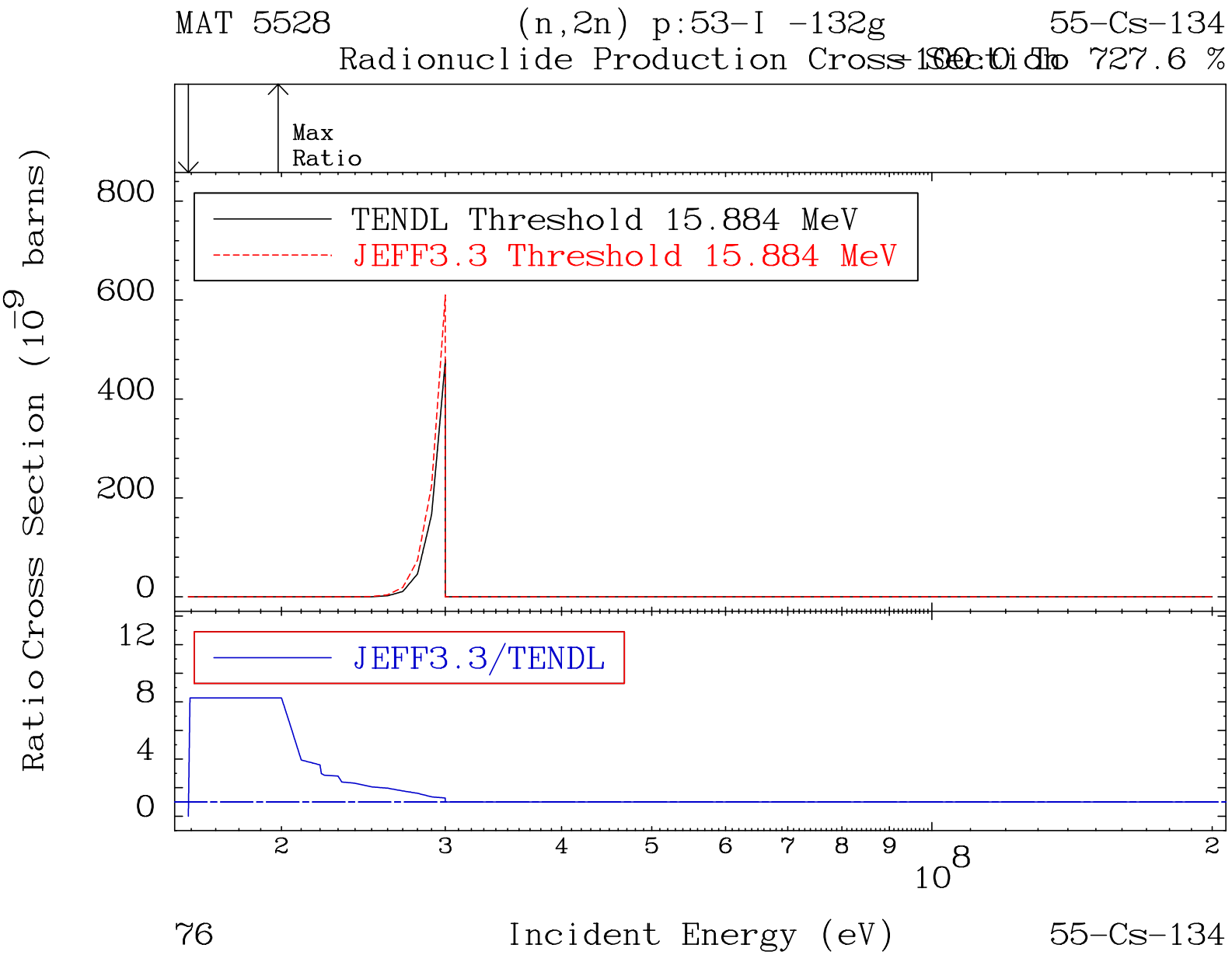

MAT 5528
(n,n') p:54-Xe-133m1
55-Cs-134
Radionuclide Production Cross Section To 1005. %
Min
Ratio
TENDL Threshold 7.4000 MeV
JEFF3.3 Threshold 6.8208 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
55-Cs-134

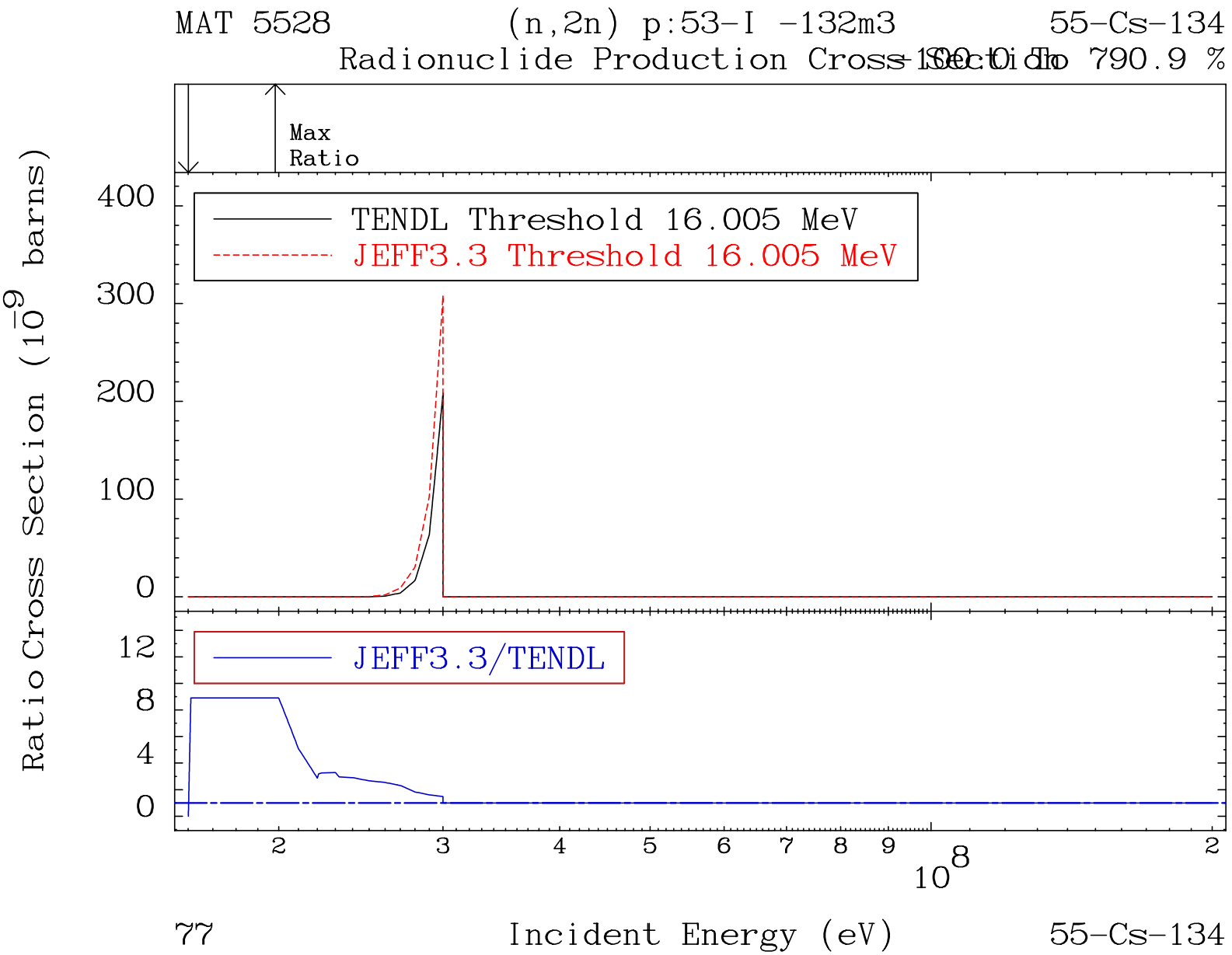

MAT 5528
(n,n') t:54-Xe-131g
55-Cs-134
Radionuclide Production Cross Section To 162.9 %
Max Ratio
Min Ratio
TENDL Threshold 13.529 MeV
JEFF3.3 Threshold 13.529 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
55-Cs-134

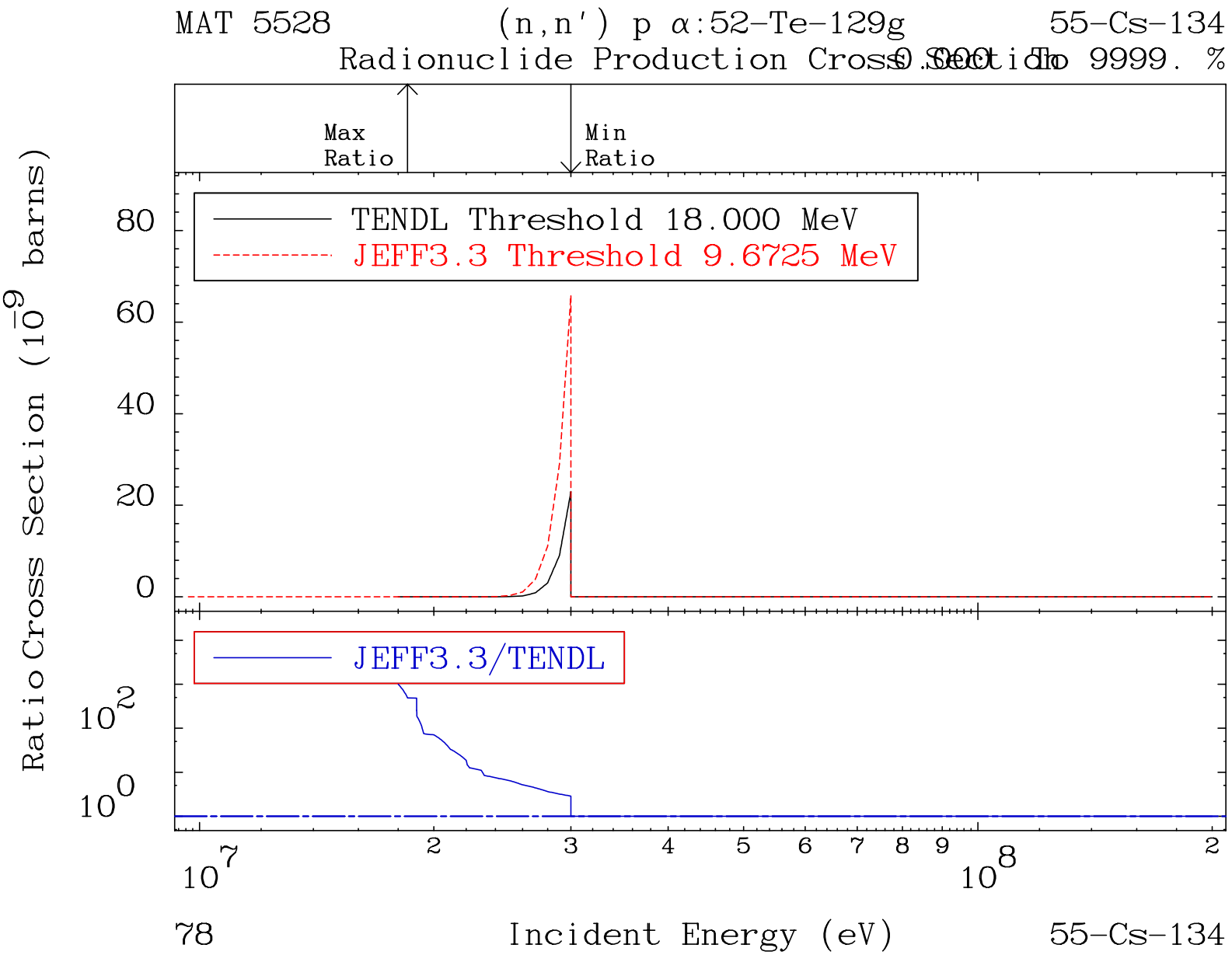

MAT 5528 (n,n') t:54-Xe-131m2 55-Cs-134
Radionuclide Production Cross Section To 990.6 %
Max Ratio
Min Ratio
TENDL Threshold 13.694 MeV
JEFF3.3 Threshold 13.694 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
73
55-Cs-134

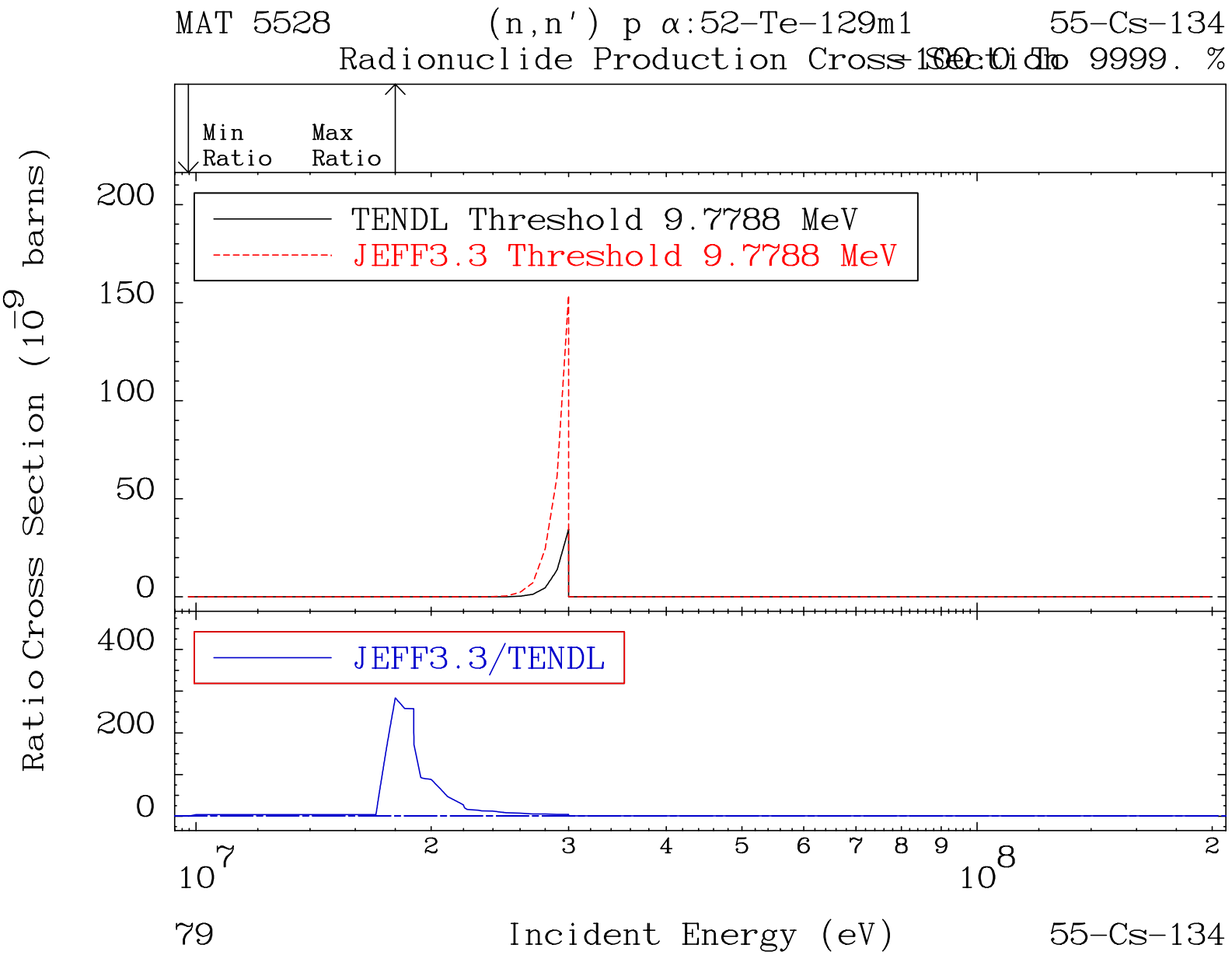

MAT 5528
(n,3n) p:54-Xe-131g
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 22.074 MeV
JEFF3.3 Threshold 22.074 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
140
120
100
80
60
40
20
0
10^2
10^0
20
40
60
80
100
120
140
160
180
200
74
Incident Energy (MeV)
55-Cs-134

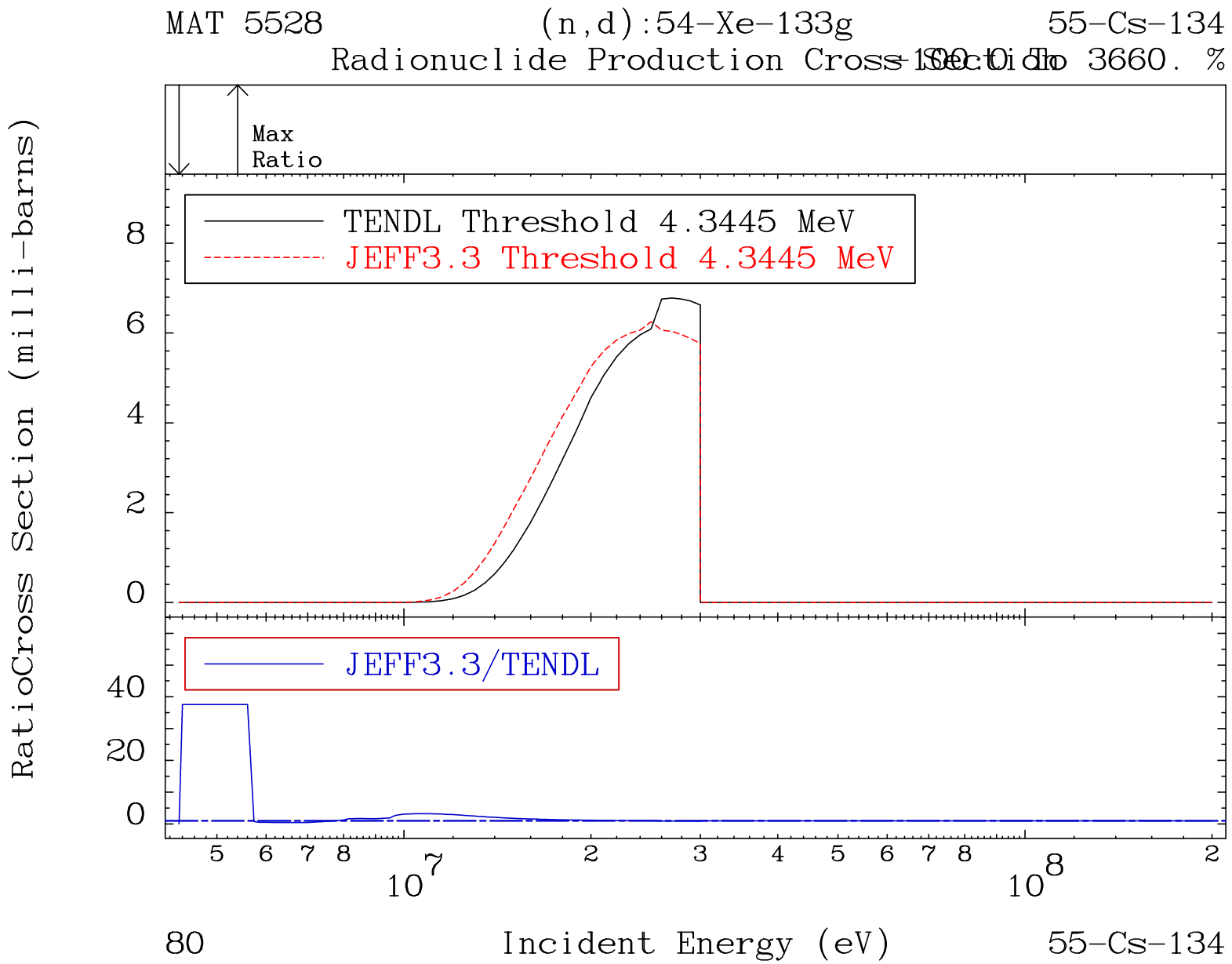

MAT 5528
(n,3n) p:54-Xe-131m2
55-Cs-134
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 22.239 MeV
JEFF3.3 Threshold 22.239 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
10^4
10^2
10^0
20
40
60
80
100
120
140
160
180
200
75
Incident Energy (MeV)
55-Cs-134

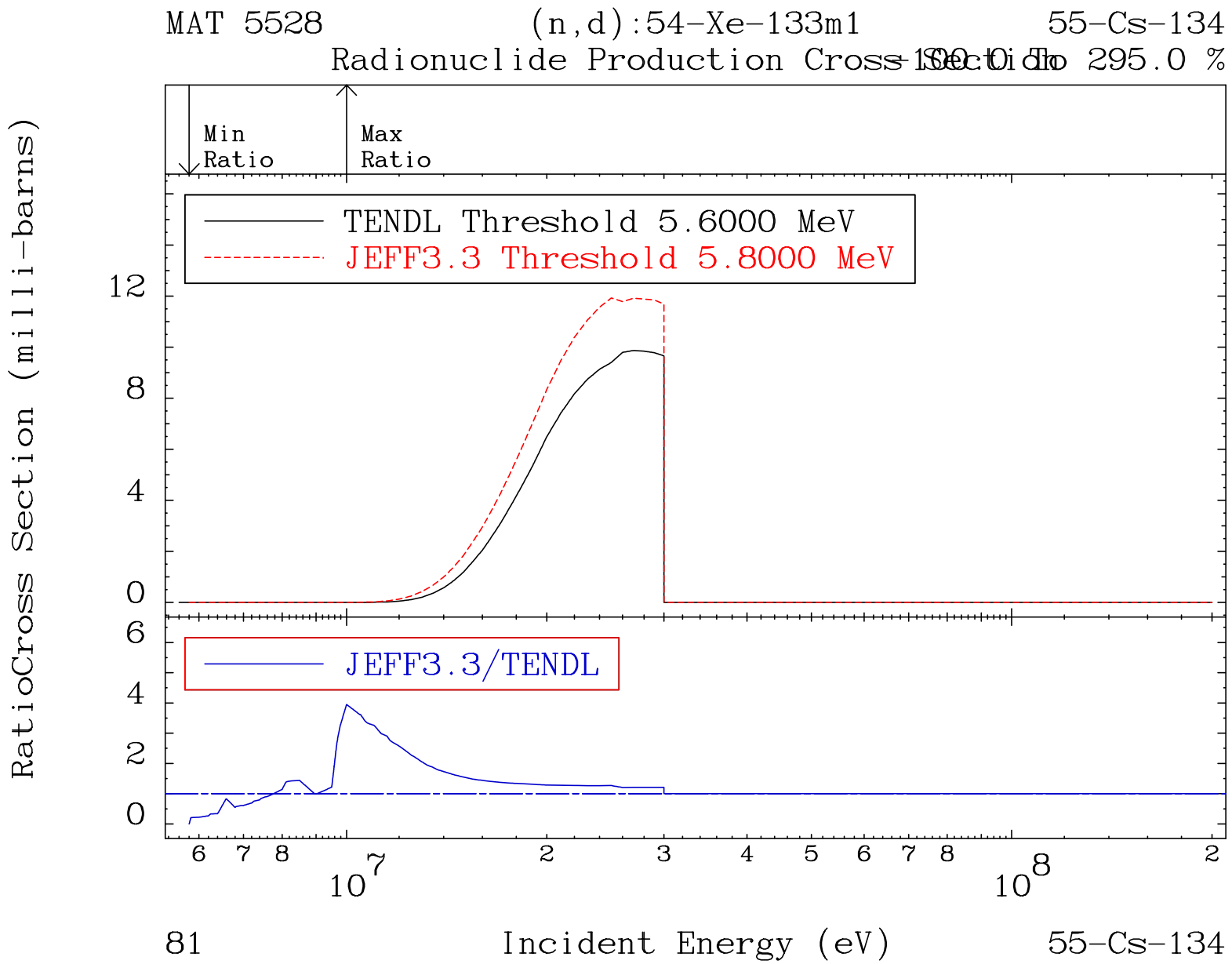

MAT 5528
(n,2n) p:53-I -132g
55-Cs-134
Radionuclide Production Cross Section To 727.6 %
Max
Ratio
800
600
400
200
0
TENDL Threshold 15.884 MeV
JEFF3.3 Threshold 15.884 MeV
Ratio Cross Section (10^{-9} barns)
12
8
4
0
JEFF3.3/TENDL
2
3
4
5
6
7
8
9
2
10^8
76
Incident Energy (eV)
55-Cs-134

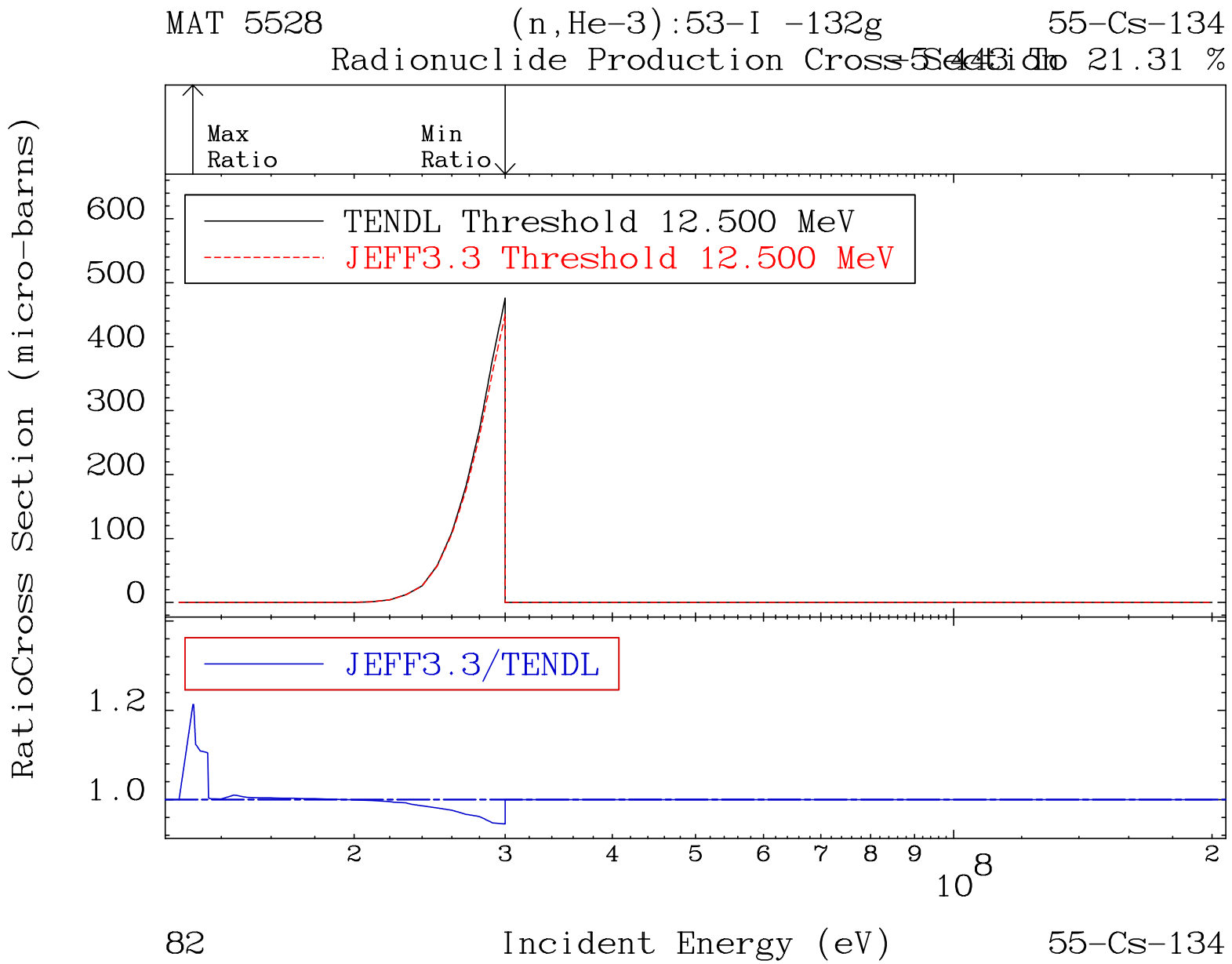

MAT 5528
(n,2n) p:53-I -132m3
55-Cs-134
Radionuclide Production Cross Section To 790.9 %
Max
Ratio
TENDL Threshold 16.005 MeV
JEFF3.3 Threshold 16.005 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
400
300
200
100
0
12
8
4
0
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
55-Cs-134

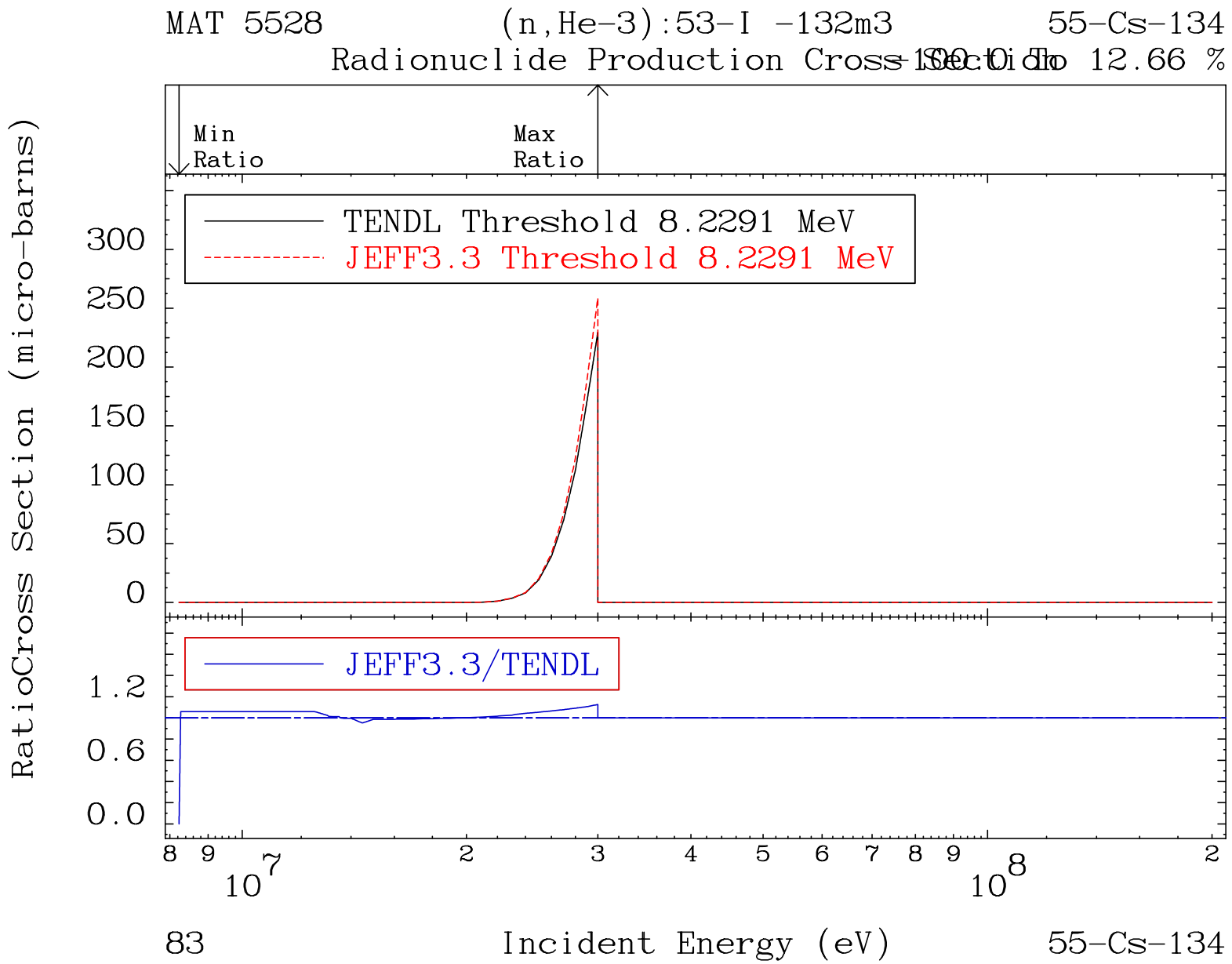

MAT 5528
(n,n') p α:52-Te-129g
55-Cs-134
Radionuclide Production Cross Section
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 18.000 MeV
JEFF3.3 Threshold 9.6725 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
80
60
40
20
0
10^{2}
10^{0}
10^{7}
2
3
4
5
6
7
8
9
10^{8}
2
78
Incident Energy (eV)
55-Cs-134

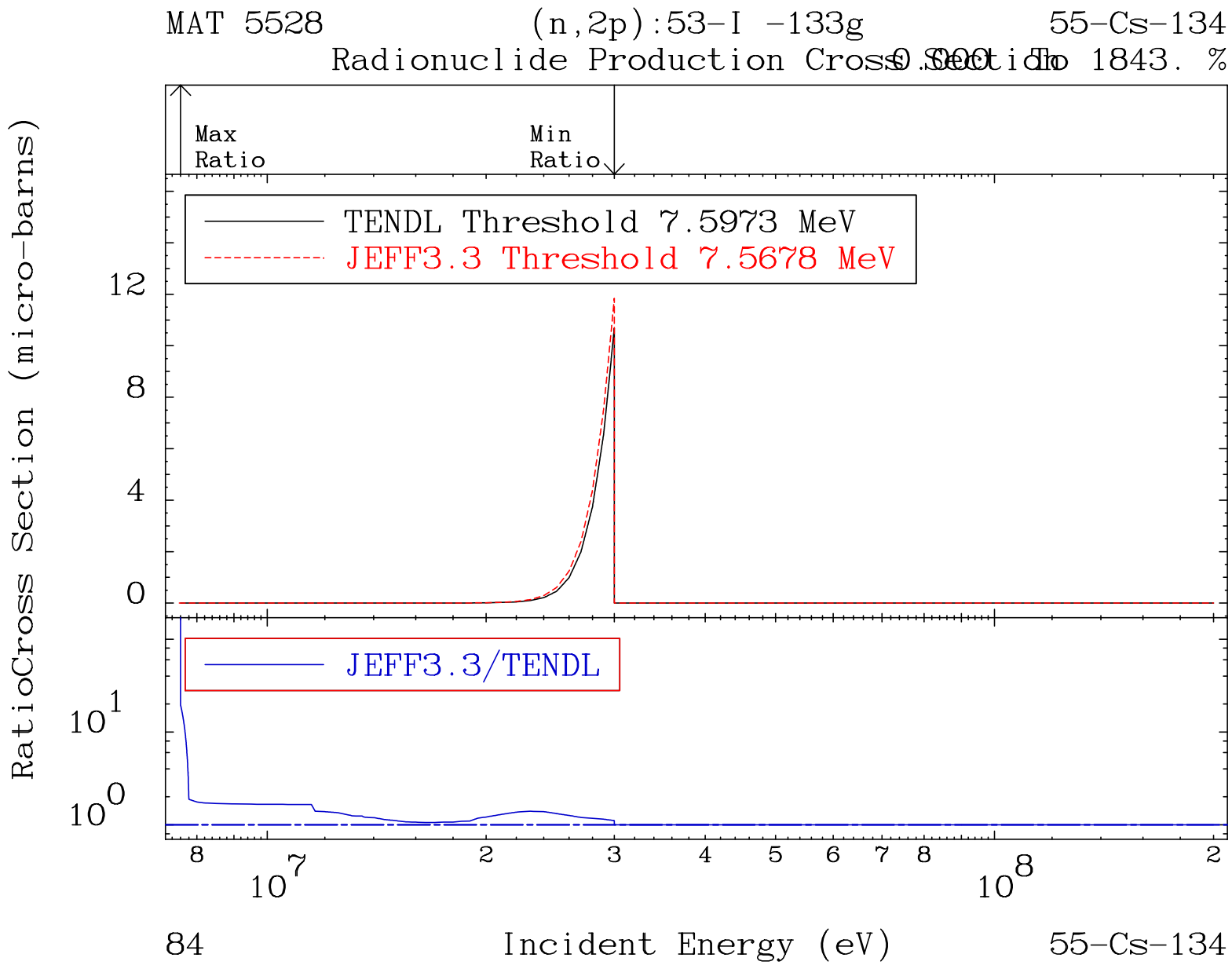

MAT 5528
(n,n') p α:52-Te-129m1
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 9.7788 MeV
JEFF3.3 Threshold 9.7788 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
200
150
100
50
0
400
200
0
10^7
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
55-Cs-134

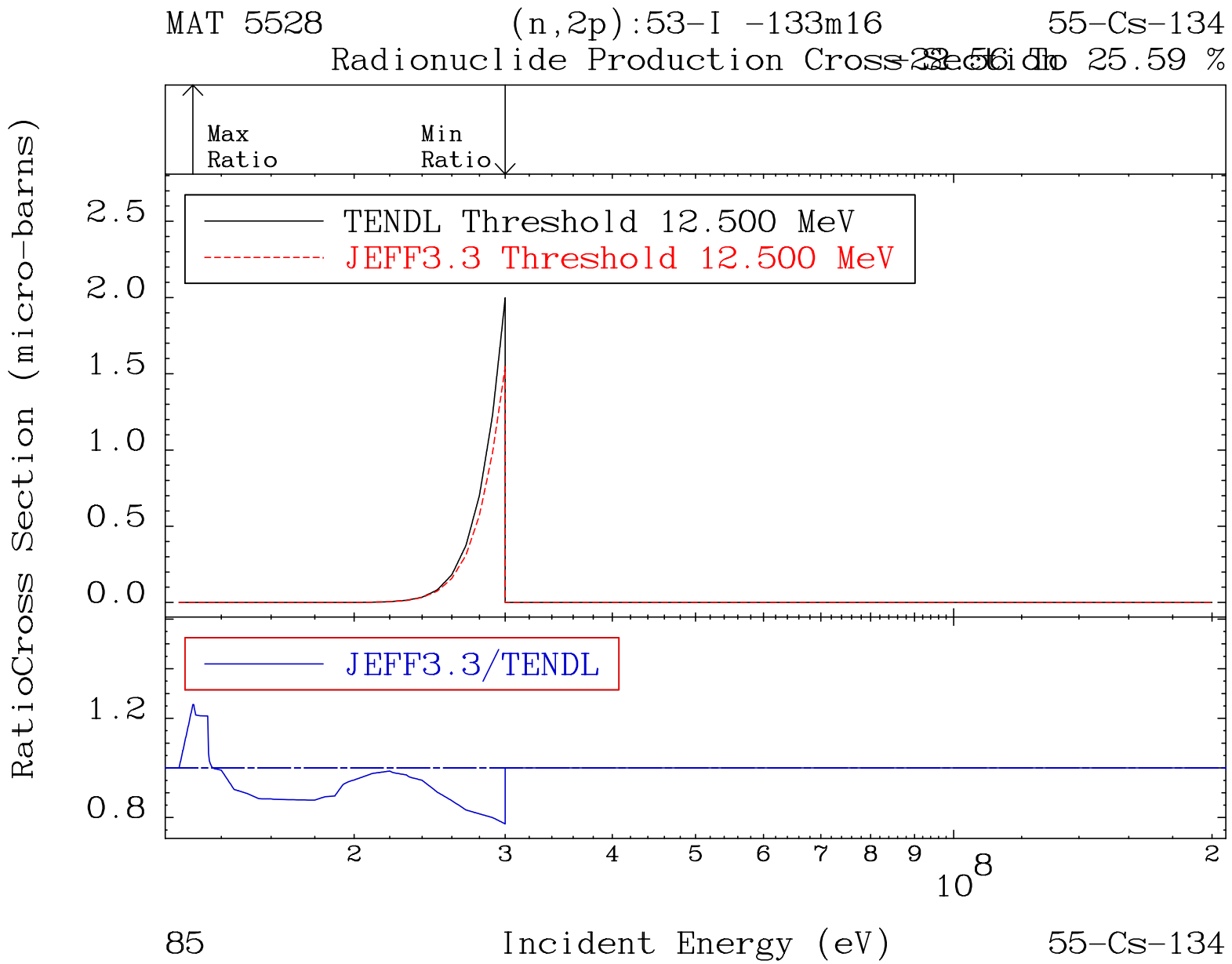

MAT 5528
(n,d):54-Xe-133g
55-Cs-134
Radionuclide Production Cross Section To 3660. %
Max
Ratio
TENDL Threshold 4.3445 MeV
JEFF3.3 Threshold 4.3445 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
80
55-Cs-134

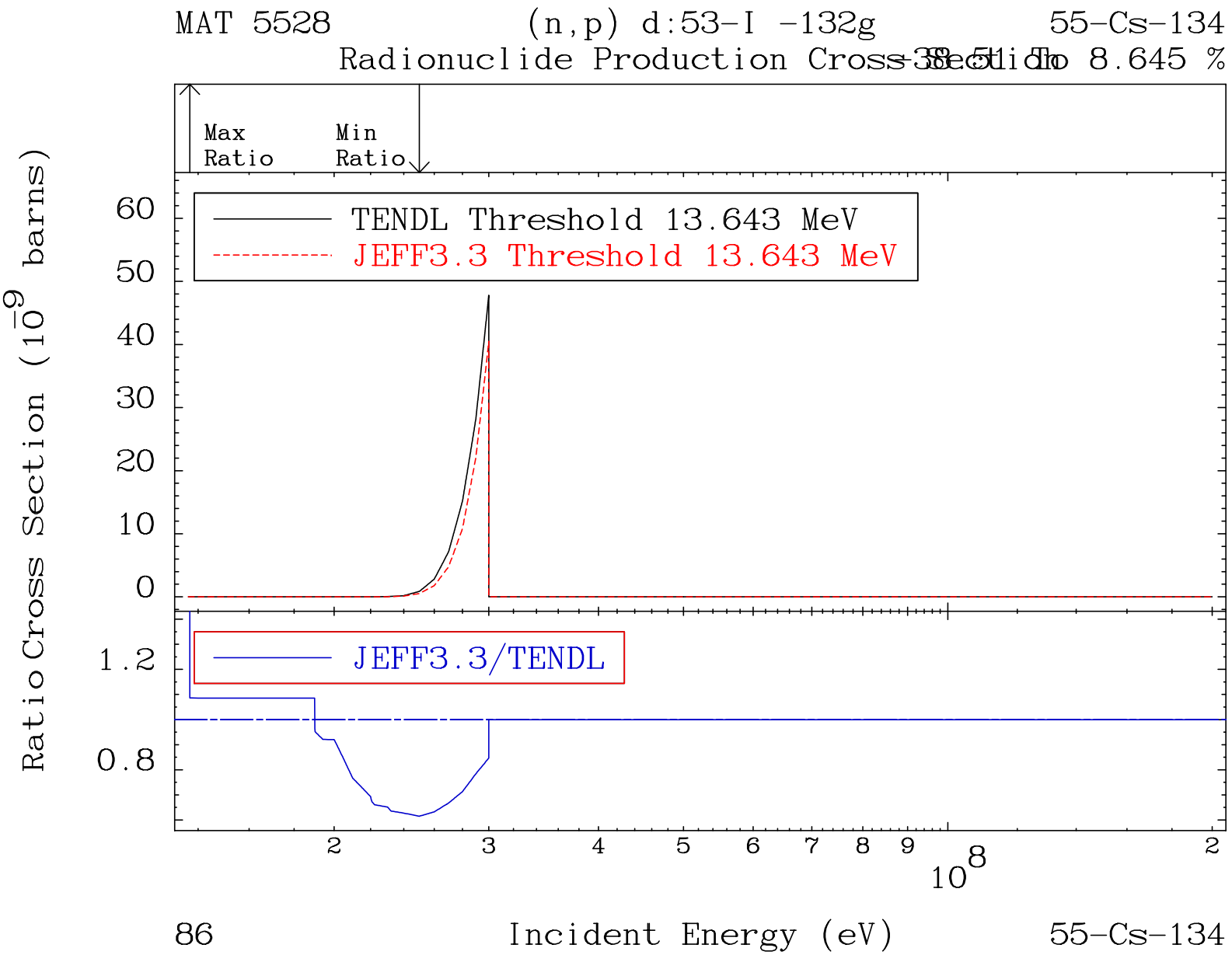

MAT 5528
(n,d):54-Xe-133m1
55-Cs-134
Radionuclide Production Cross Section
190.0 To 295.0 %
Min Ratio
Max Ratio
TENDL Threshold 5.6000 MeV
JEFF3.3 Threshold 5.8000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
55-Cs-134

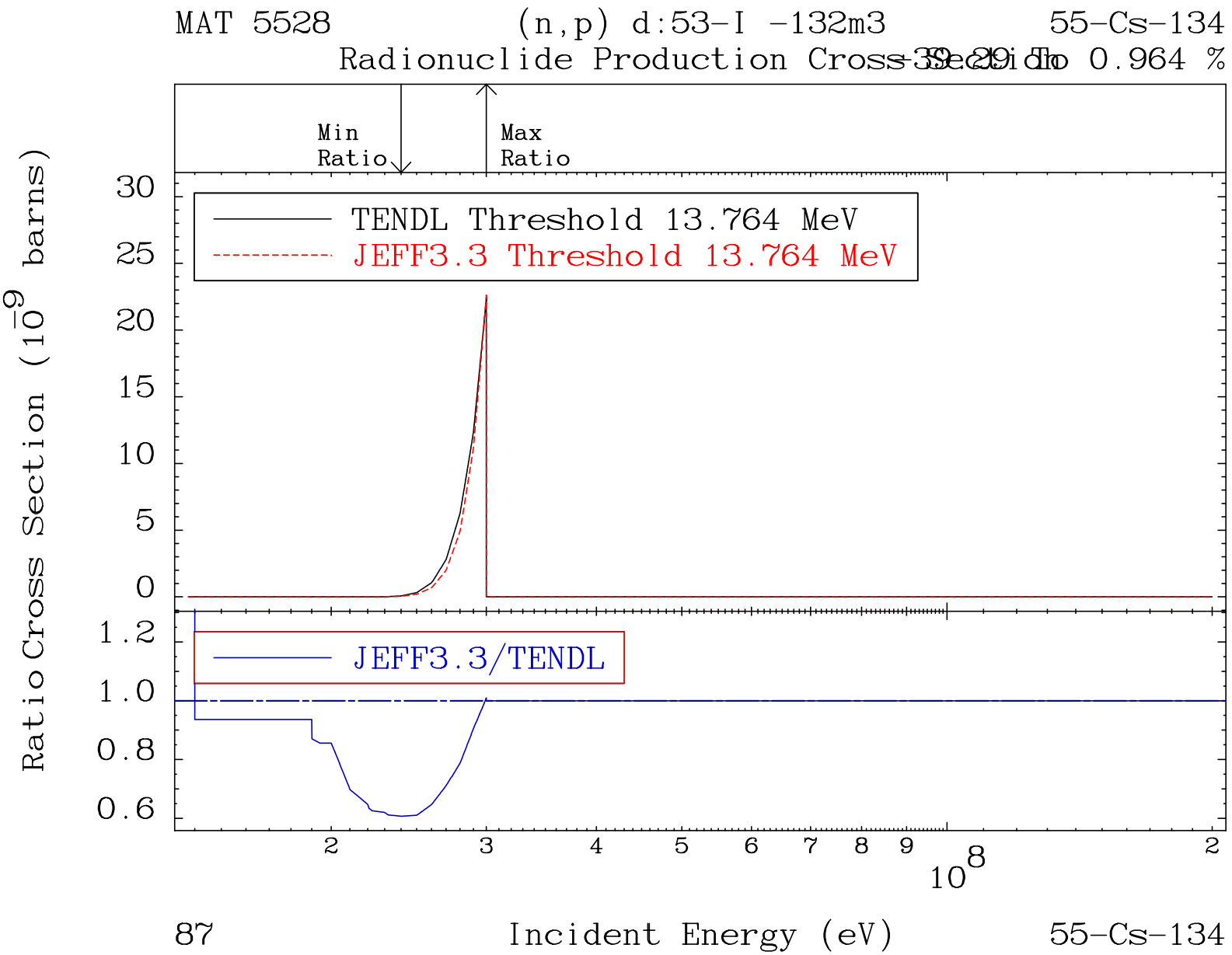

MAT 5528
(n,He-3):53-I -132g
55-Cs-134
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
82
55-Cs-134

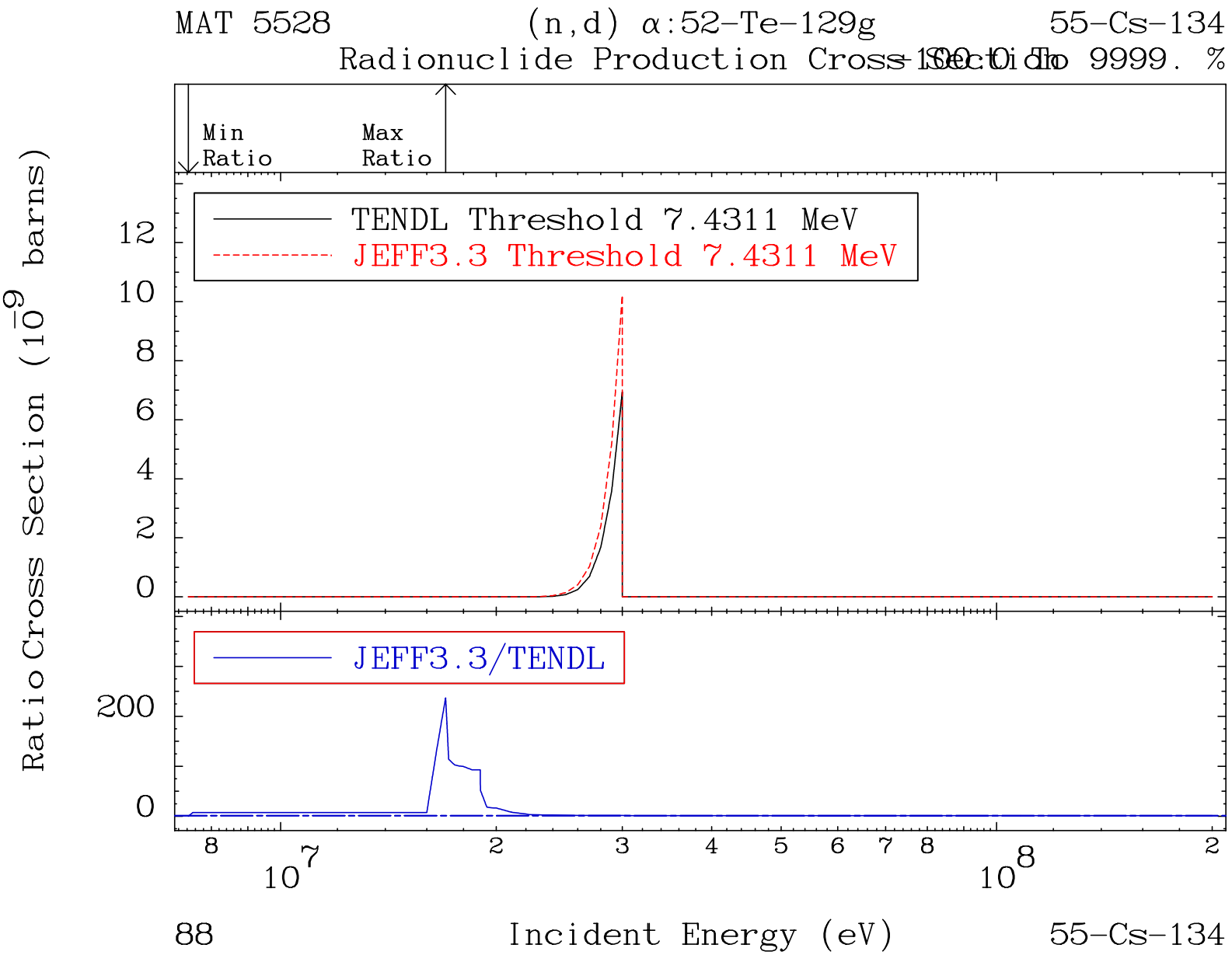

MAT 5528
(n,He-3):53-I -132m3
55-Cs-134
Radionuclide Production Cross Section To 12.66 %
Min Ratio
Max Ratio
TENDL Threshold 8.2291 MeV
JEFF3.3 Threshold 8.2291 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
83
Incident Energy (eV)
55-Cs-134

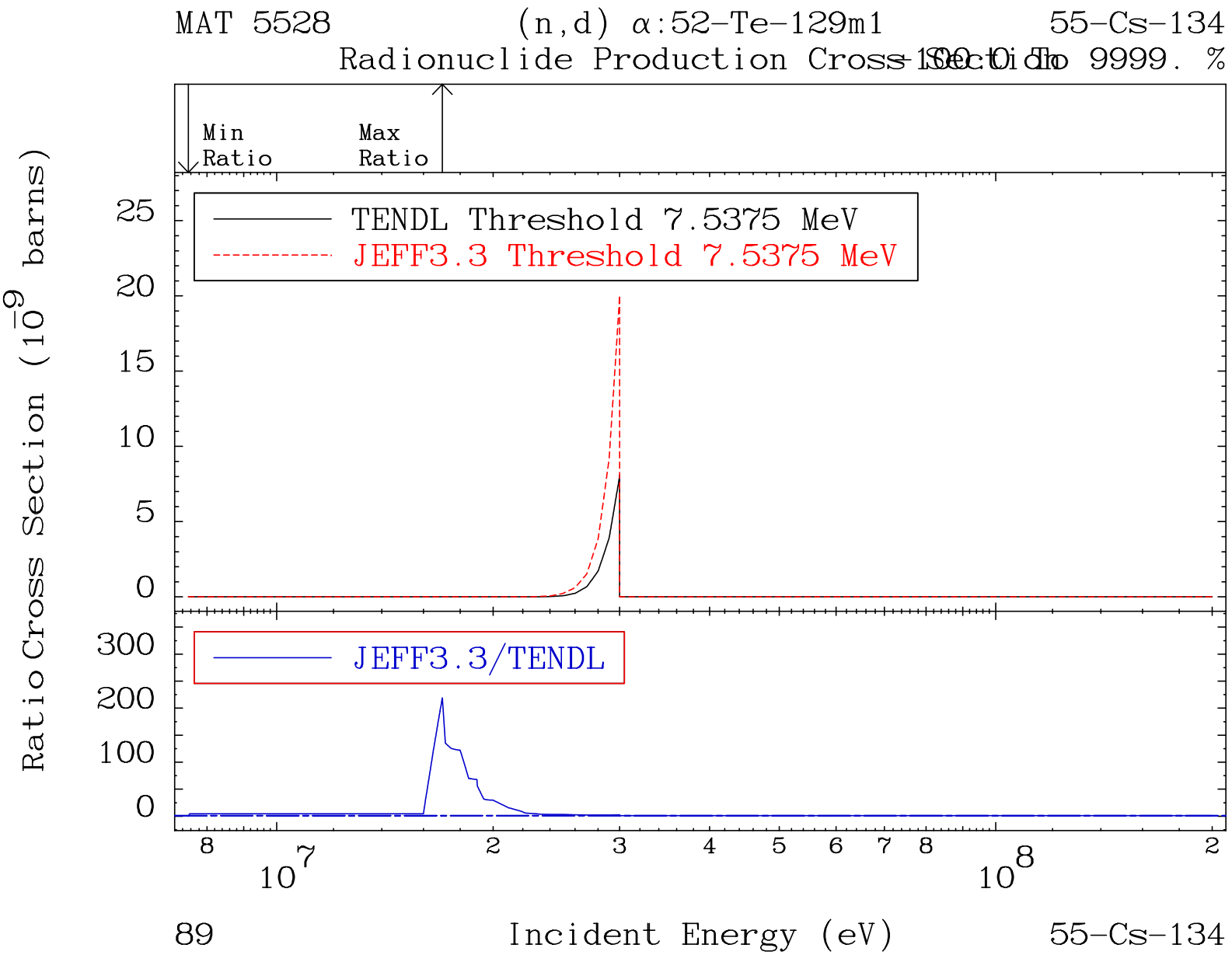

MAT 5528
(n,2p):53-I -133g
55-Cs-134
Radionuclide Production Cross Section
0.000 To 1843. %
Max Ratio
Min Ratio
TENDL Threshold 7.5973 MeV
JEFF3.3 Threshold 7.5678 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
12
8
4
0
10^1
10^0
8
10^7
2
3
4
5
6
7
8
10^8
2
84
Incident Energy (eV)
55-Cs-134


MAT 5528
(n,2p):53-I -133m16
55-Cs-134
Radionuclide Production Cross Section To 25.59 %
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.500 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
55-Cs-134


MAT 5528
(n,p) d:53-I -132g
55-Cs-134
Radionuclide Production Cross Section To 8.645 %
Max Ratio
Min Ratio
TENDL Threshold 13.643 MeV
JEFF3.3 Threshold 13.643 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
1.2
0.8
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
55-Cs-134


MAT 5528
(n,p) d:53-I -132m3
55-Cs-134
Radionuclide Production Cross-Section To 0.964 %
Min Ratio
Max Ratio
TENDL Threshold 13.764 MeV
JEFF3.3 Threshold 13.764 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
30
25
20
15
10
5
0
1.2
1.0
0.8
0.6
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
55-Cs-134


MAT 5528
(n,d) α:52-Te-129g
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.4311 MeV
JEFF3.3 Threshold 7.4311 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
Incident Energy (eV)
88
55-Cs-134


MAT 5528
(n,d) α:52-Te-129m1
55-Cs-134
Radionuclide Production Cross Section To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 7.5375 MeV
JEFF3.3 Threshold 7.5375 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
25
20
15
10
5
0
300
200
100
0
8
10^7
2
3
4
5
6
7
8
10^8
2
89
Incident Energy (eV)
55-Cs-134