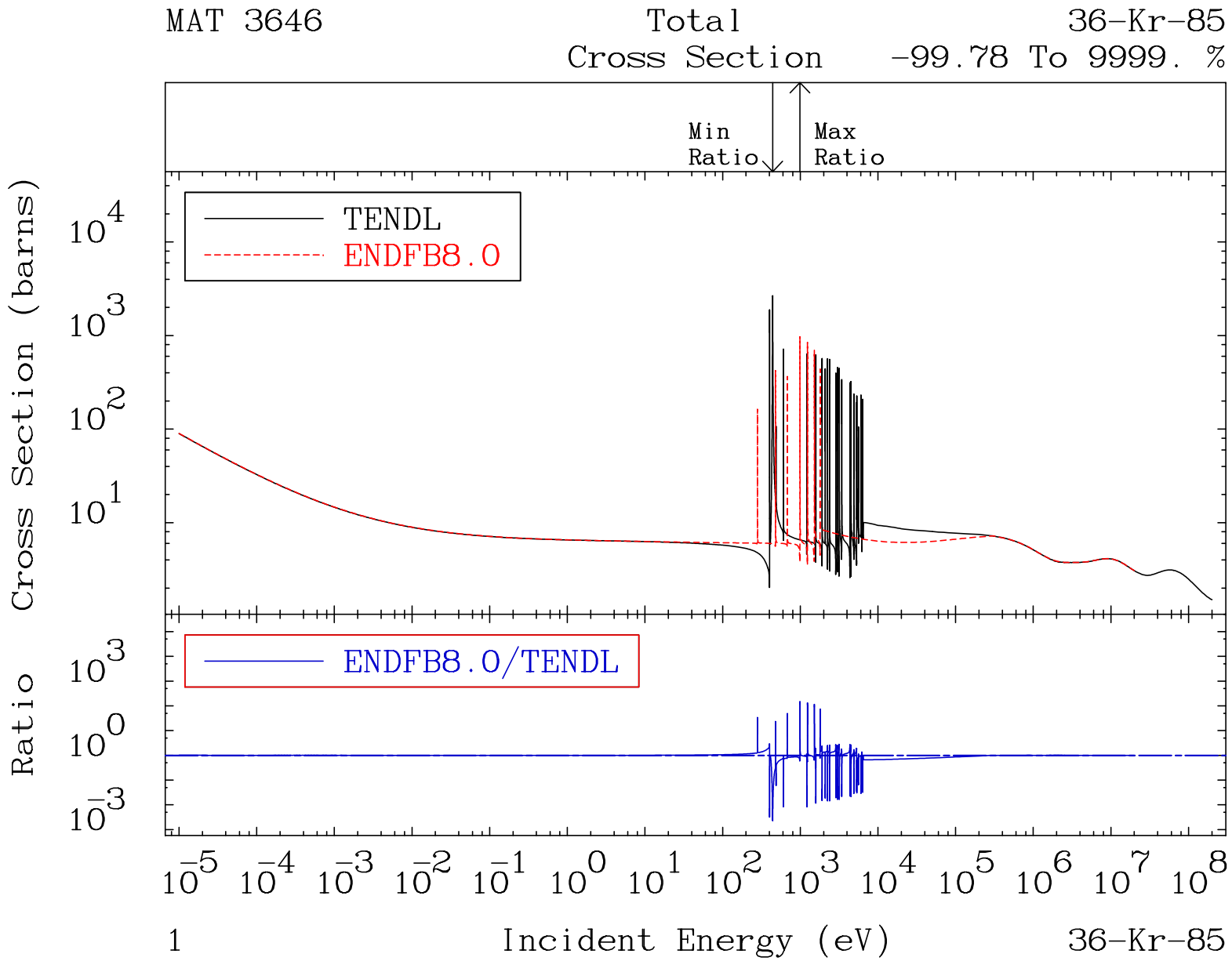
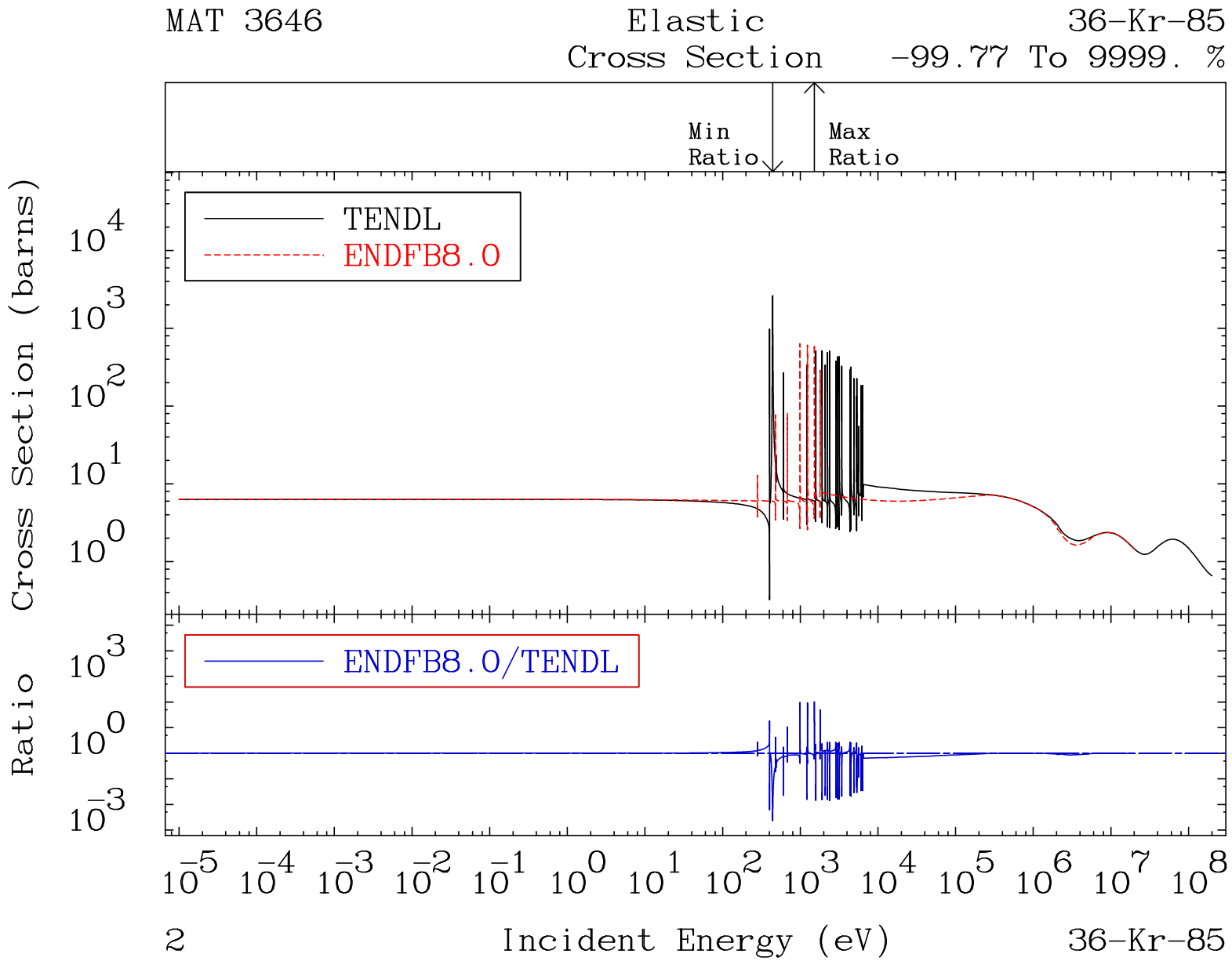
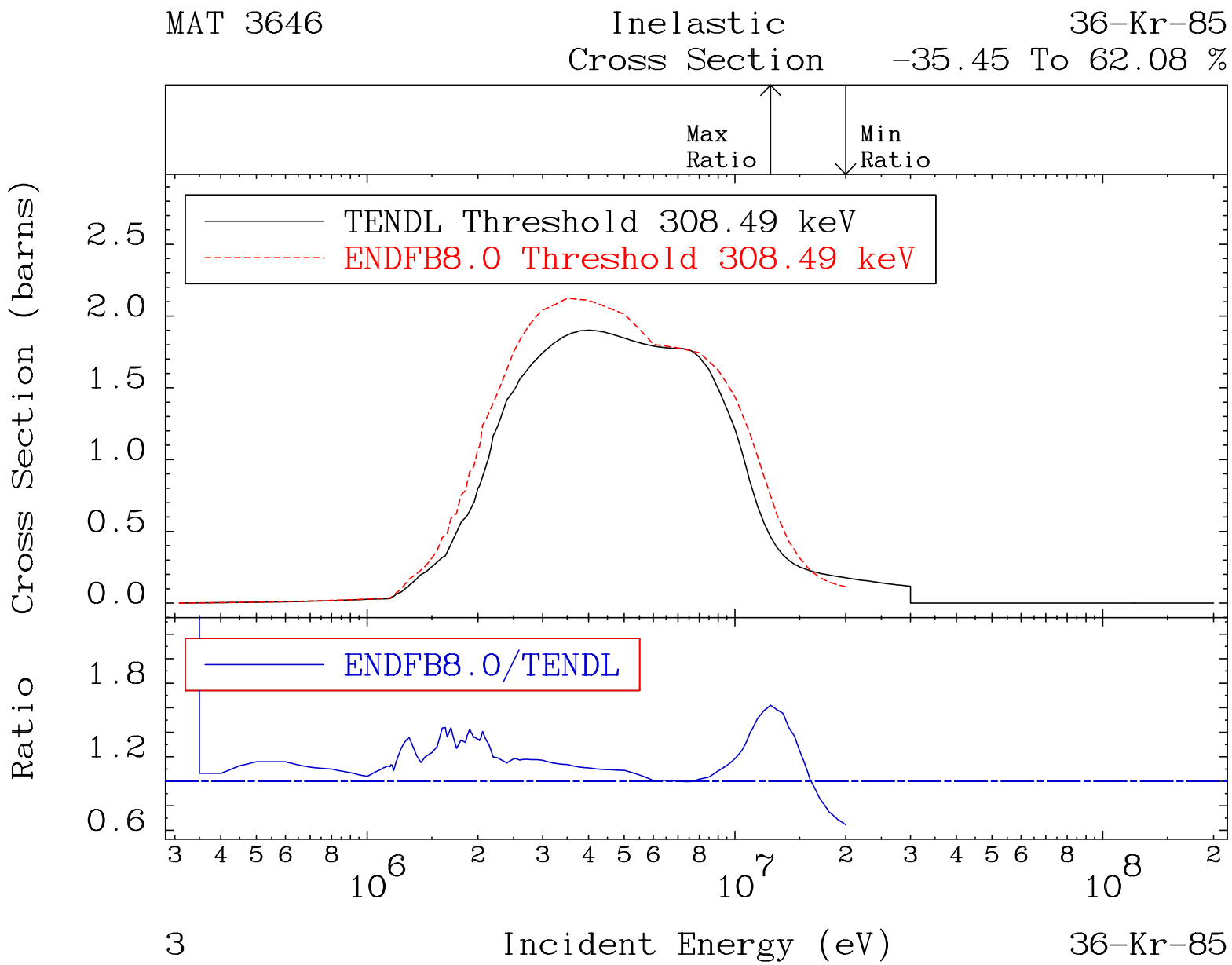
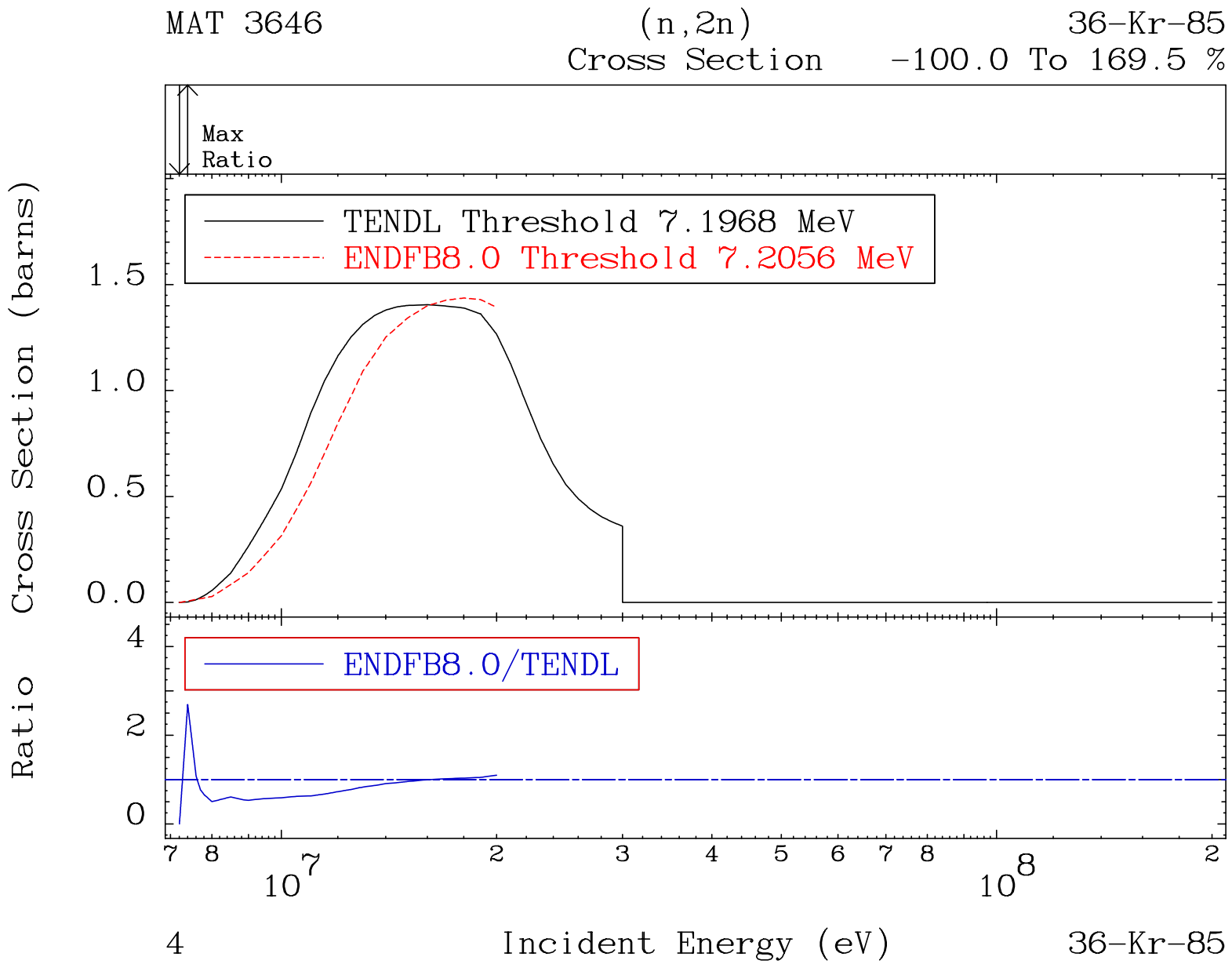
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

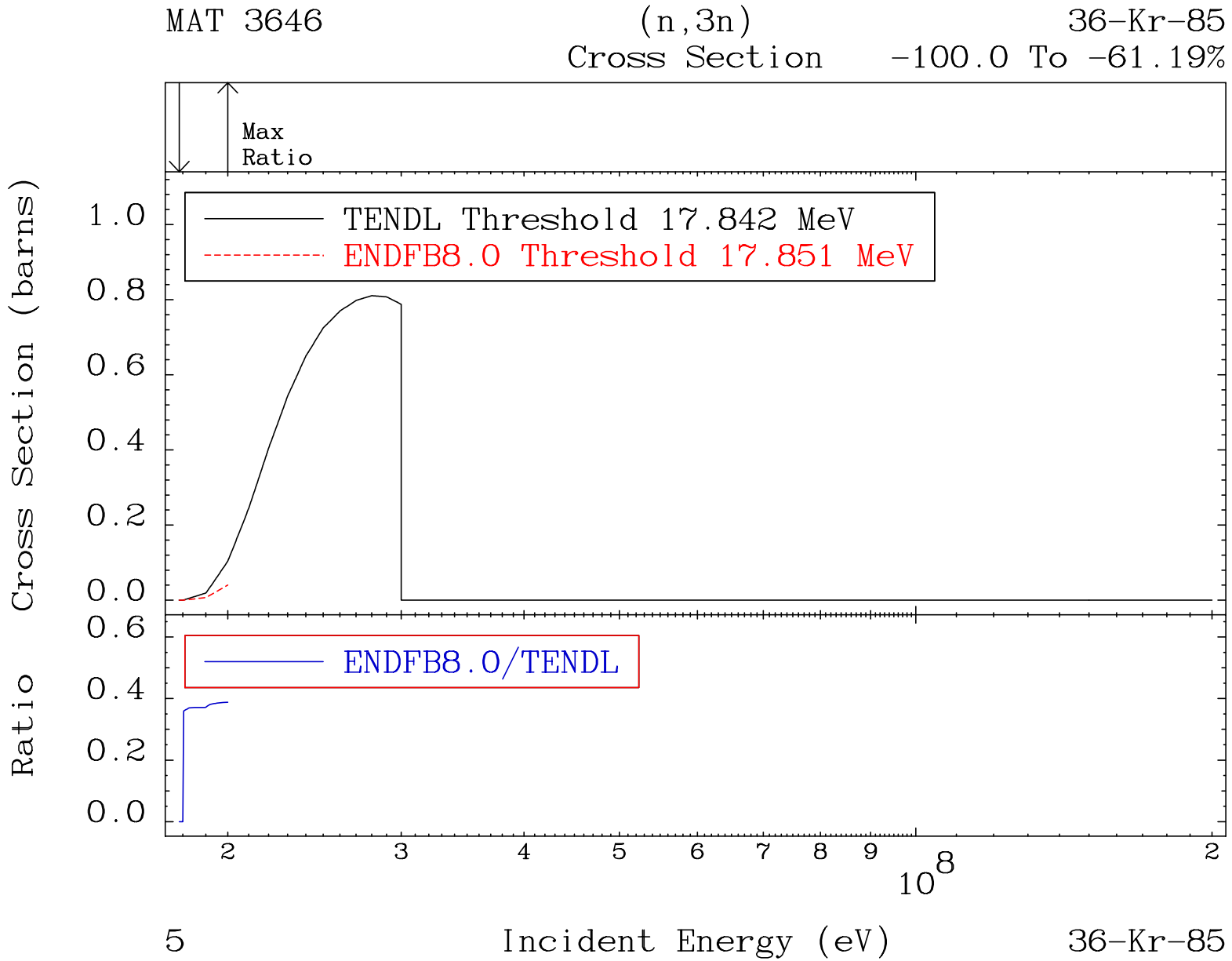
Press Mouse Button to Start

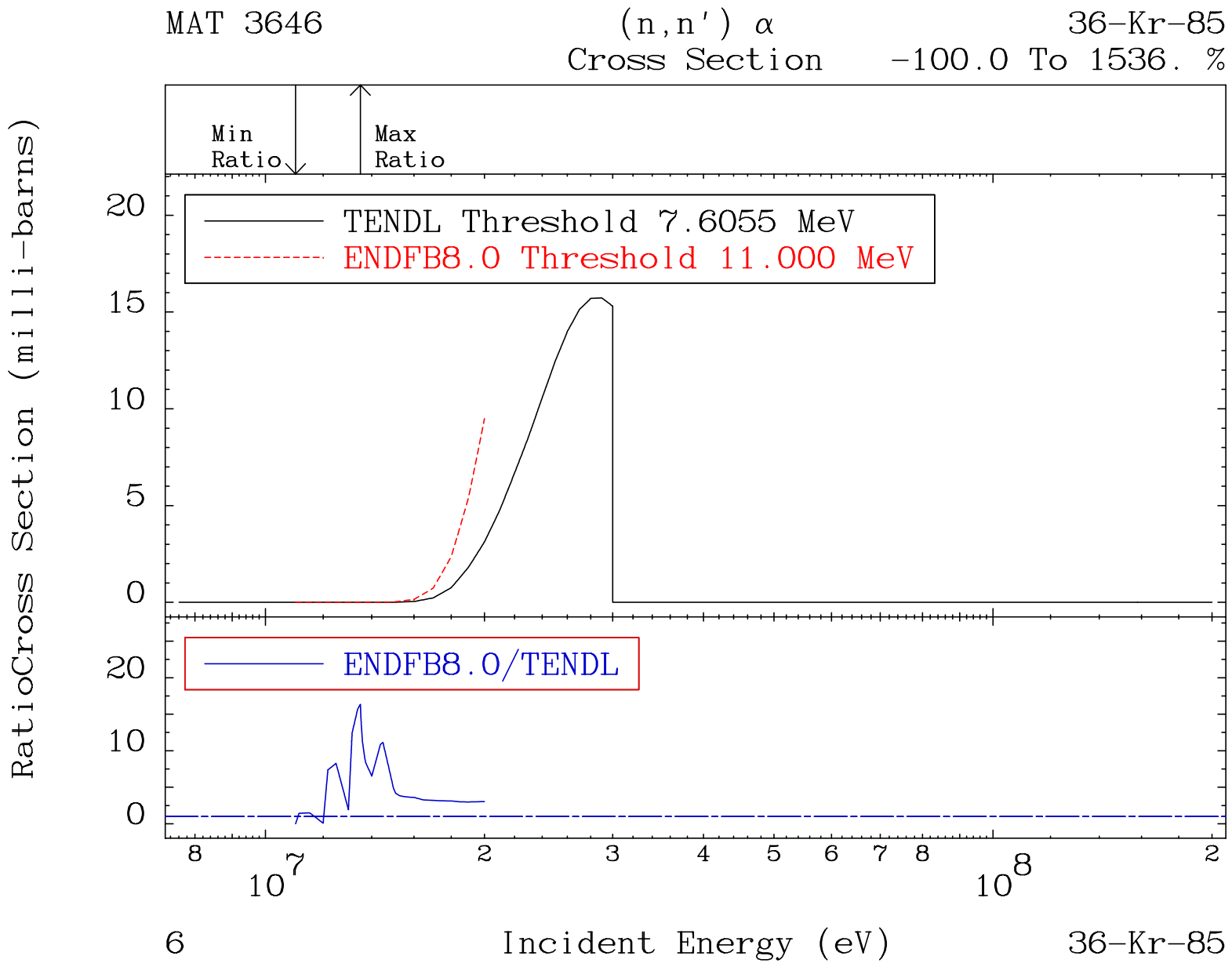

MAT 3646
Total
Cross Section
36-Kr-85
-99.78 To 9999. %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
36-Kr-85

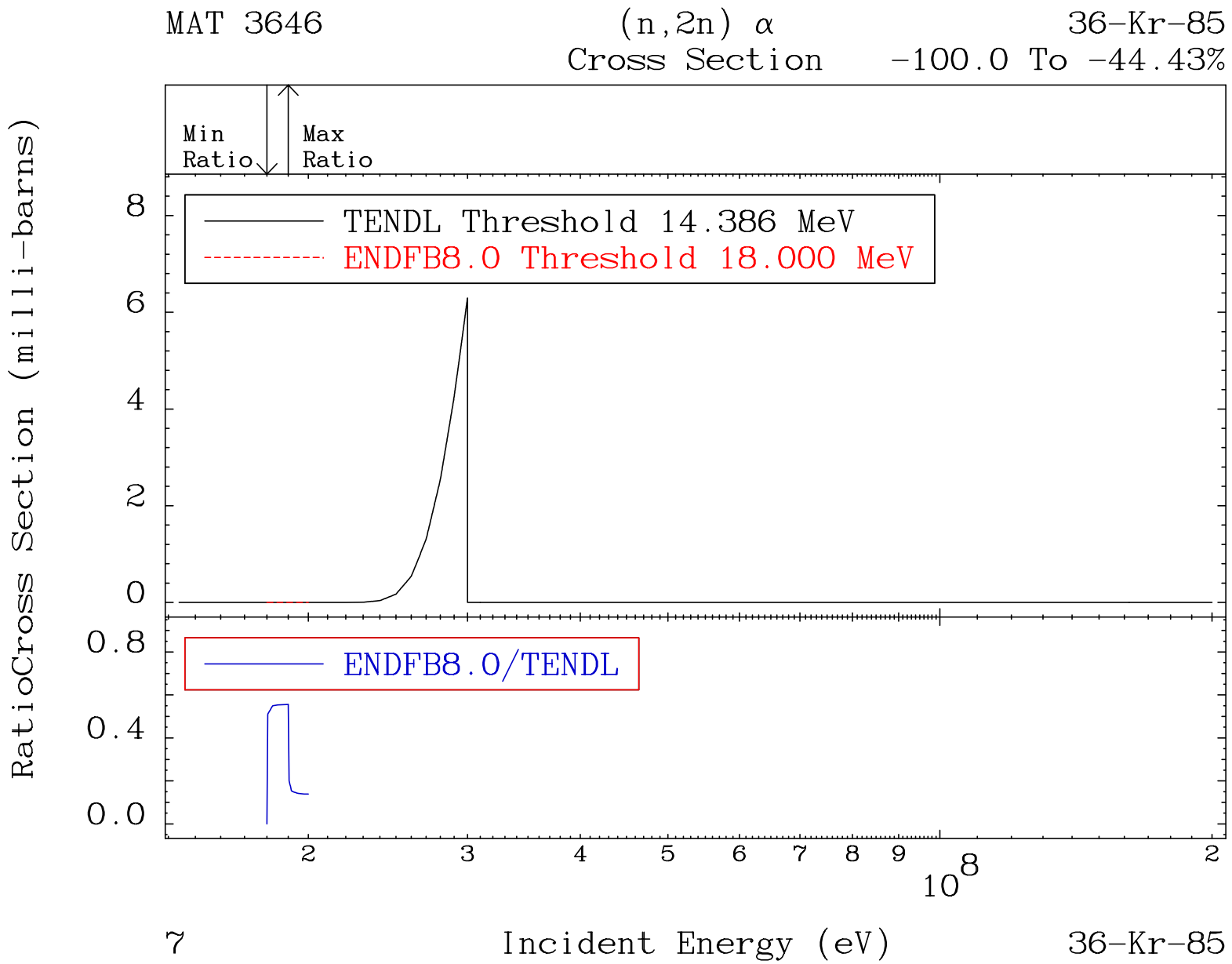

MAT 3646
Elastic
Cross Section
36-Kr-85
-99.77 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
36-Kr-85

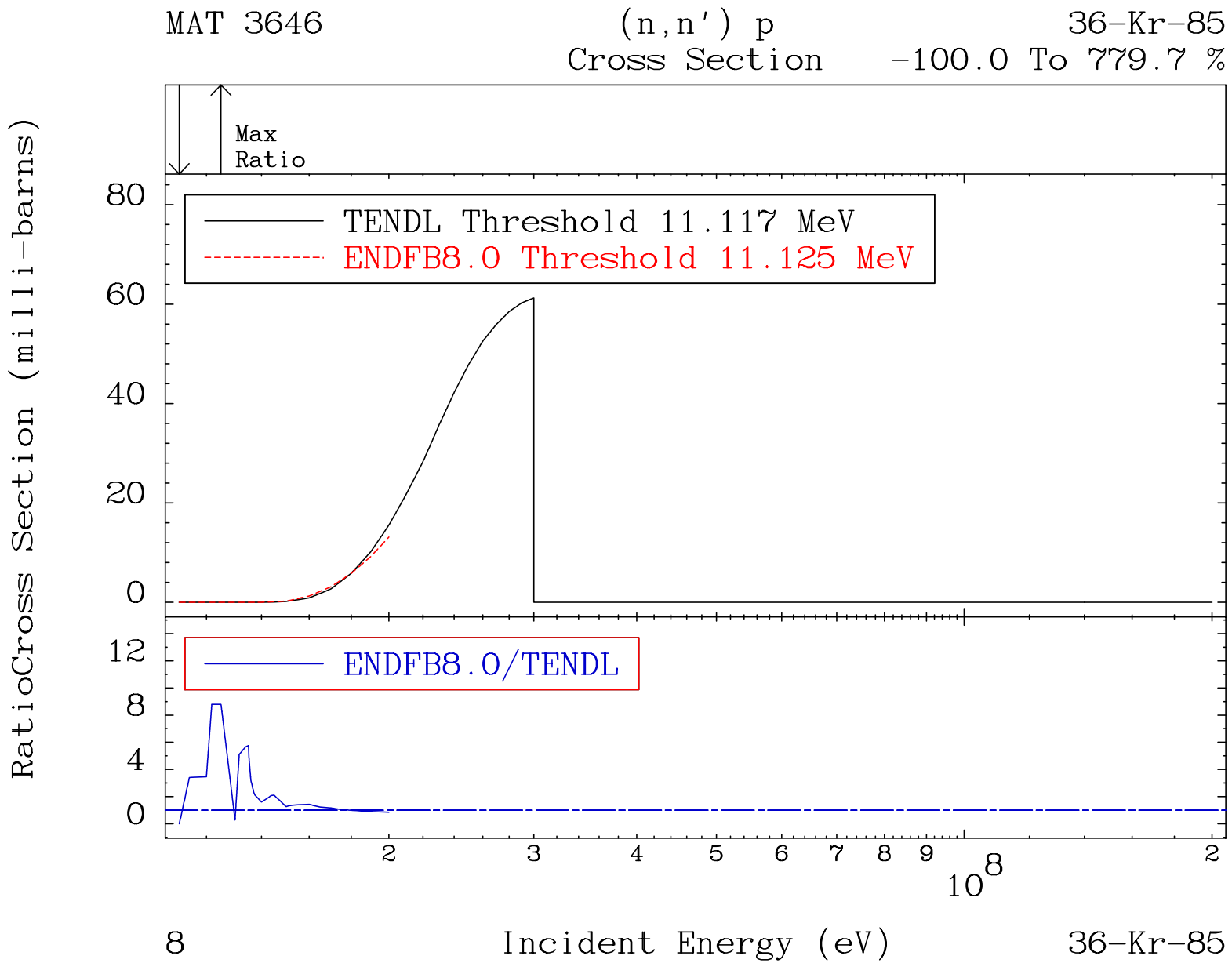

MAT 3646
Inelastic
Cross Section
36-Kr-85
-35.45 To 62.08 %
Max
Ratio
Min
Ratio
TENDL Threshold 308.49 keV
ENDFB8.0 Threshold 308.49 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.8
1.2
0.6
3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
36-Kr-85

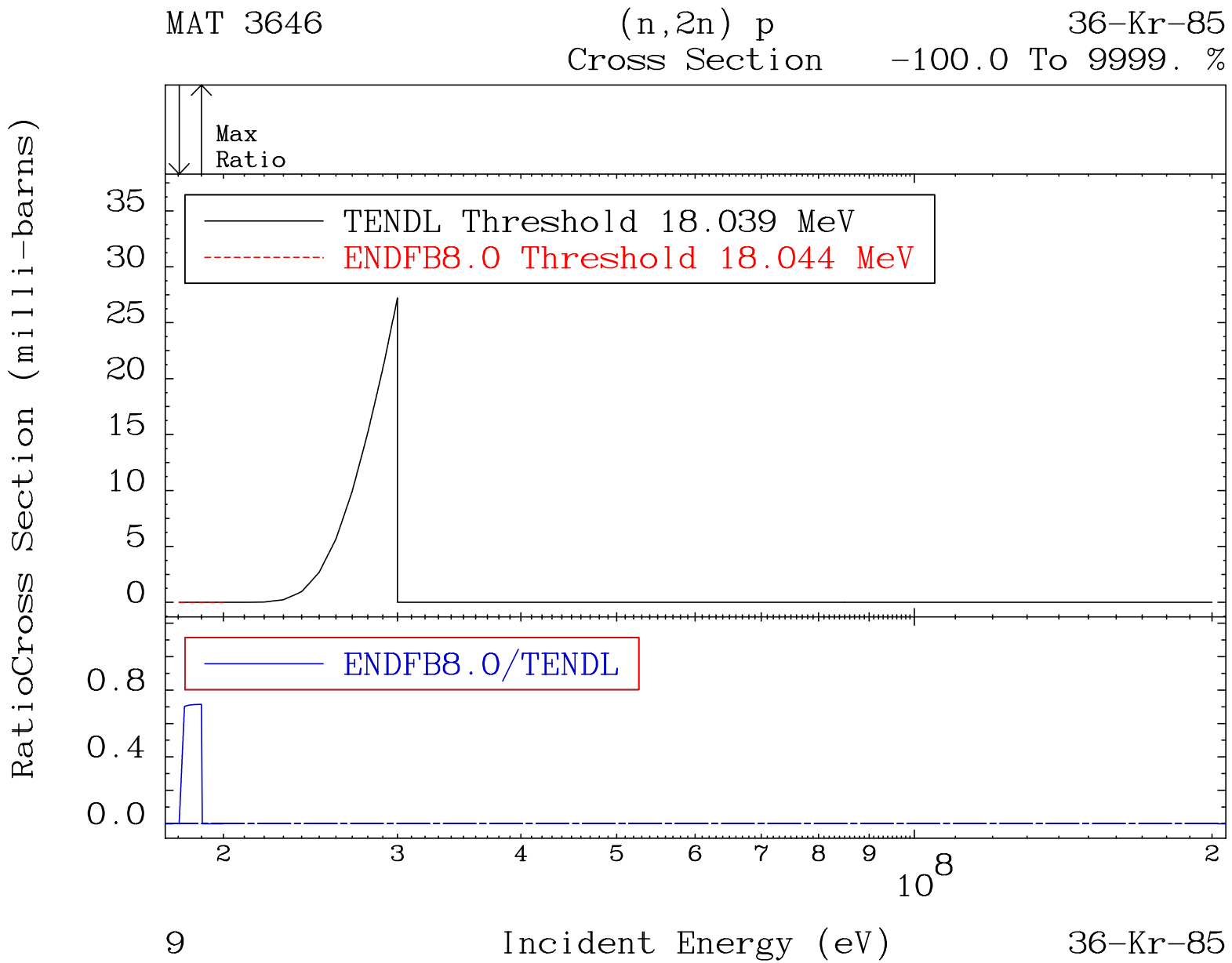

MAT 3646
(n,2n)
Cross Section
36-Kr-85
-100.0 To 169.5 %
Max
Ratio
TENDL Threshold 7.1968 MeV
ENDFB8.0 Threshold 7.2056 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
4
2
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
4
Incident Energy (eV)
36-Kr-85

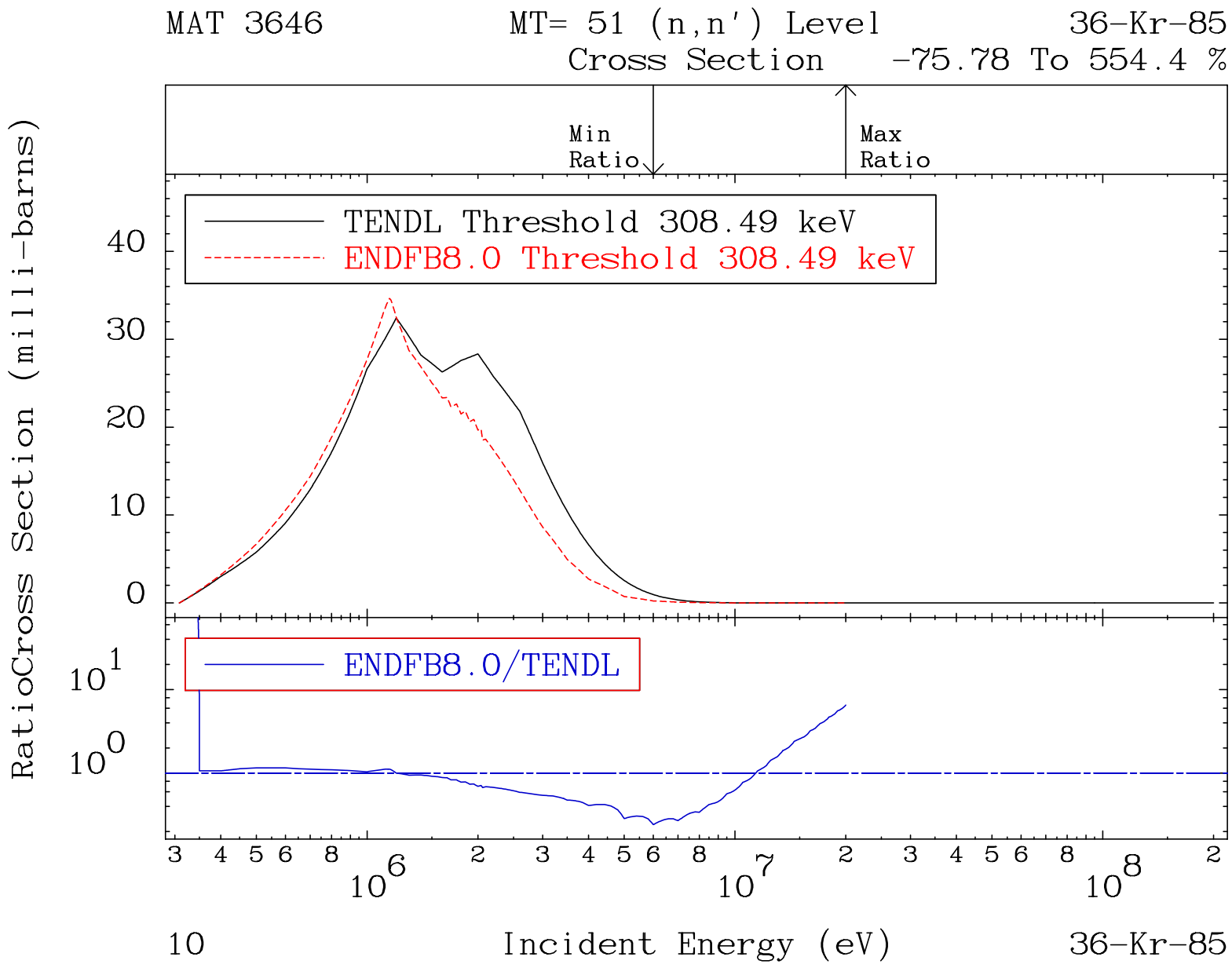

MAT 3646
(n,3n)
36-Kr-85
Cross Section
-100.0 To -61.19%
Max
Ratio
TENDL Threshold 17.842 MeV
ENDFB8.0 Threshold 17.851 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
36-Kr-85

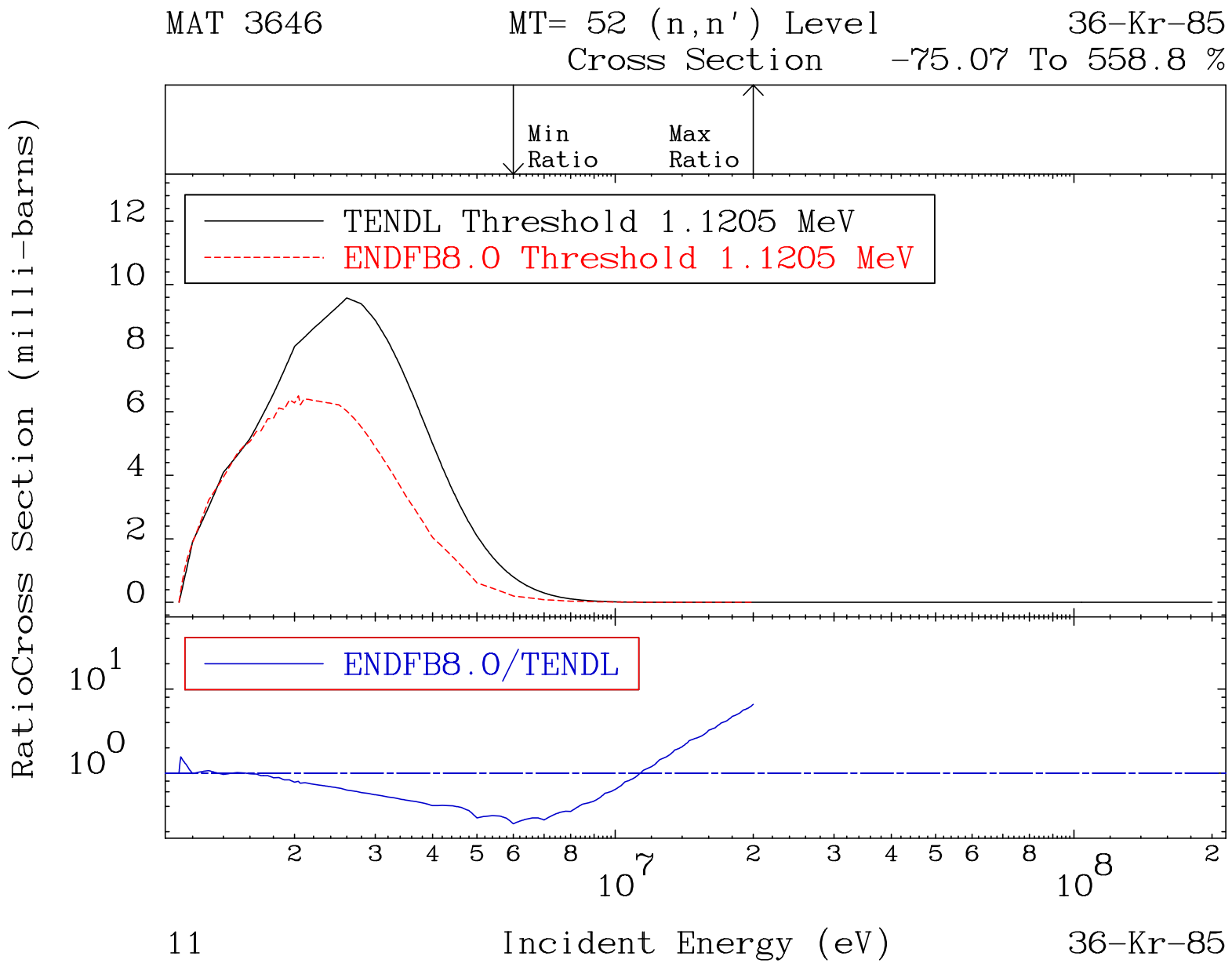

MAT 3646
(n,n') α
36-Kr-85
Cross Section
-100.0 To 1536. %
Min Ratio
Max Ratio
TENDL Threshold 7.6055 MeV
ENDFB8.0 Threshold 11.000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
20
10
0
8
2
3
4
5
6
7
8
2
10^7
10^8
6
Incident Energy (eV)
36-Kr-85

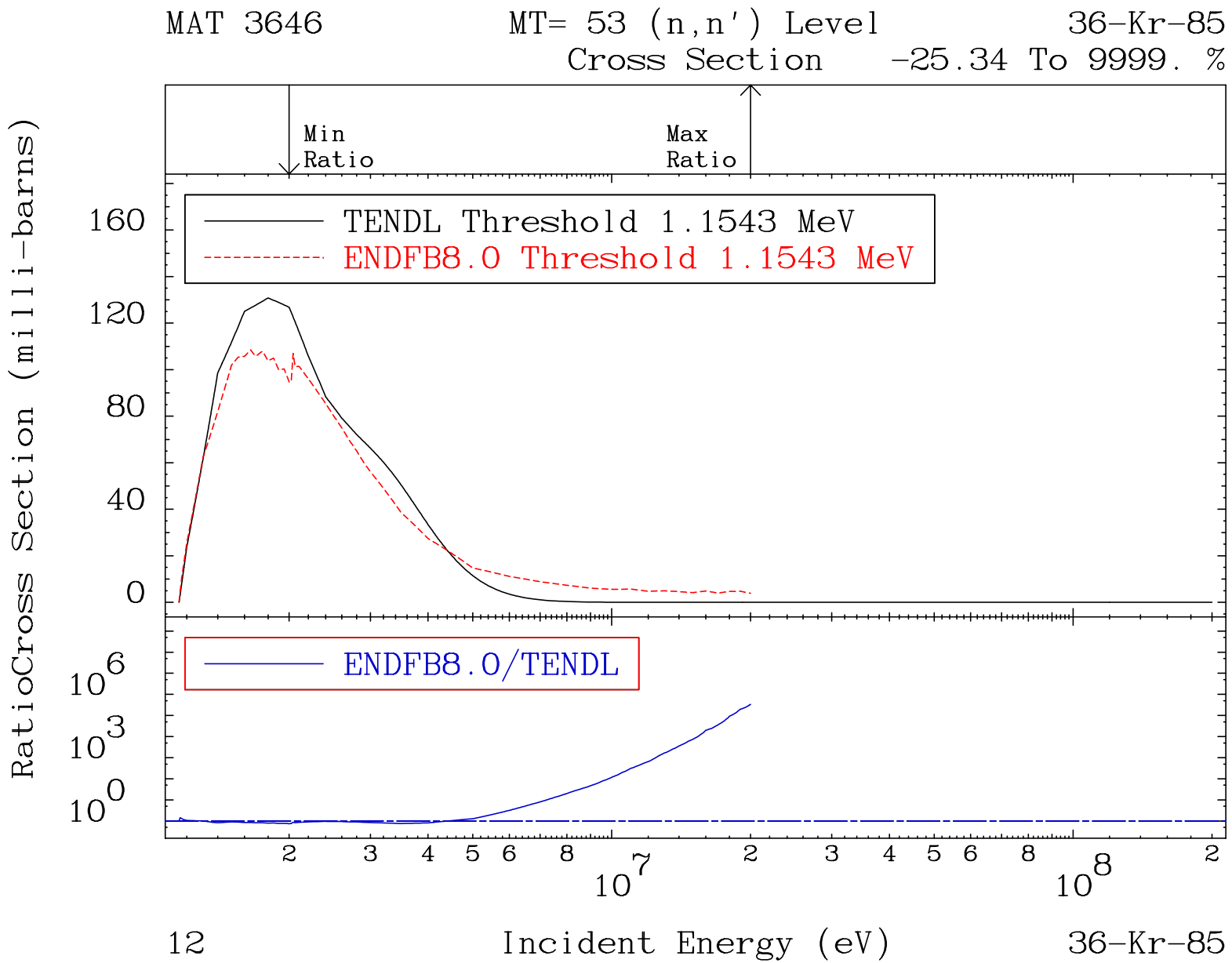

MAT 3646
(n,2n) α
36-Kr-85
Cross Section
-100.0 To -44.43%
Min Ratio
Max Ratio
TENDL Threshold 14.386 MeV
ENDFB8.0 Threshold 18.000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
36-Kr-85

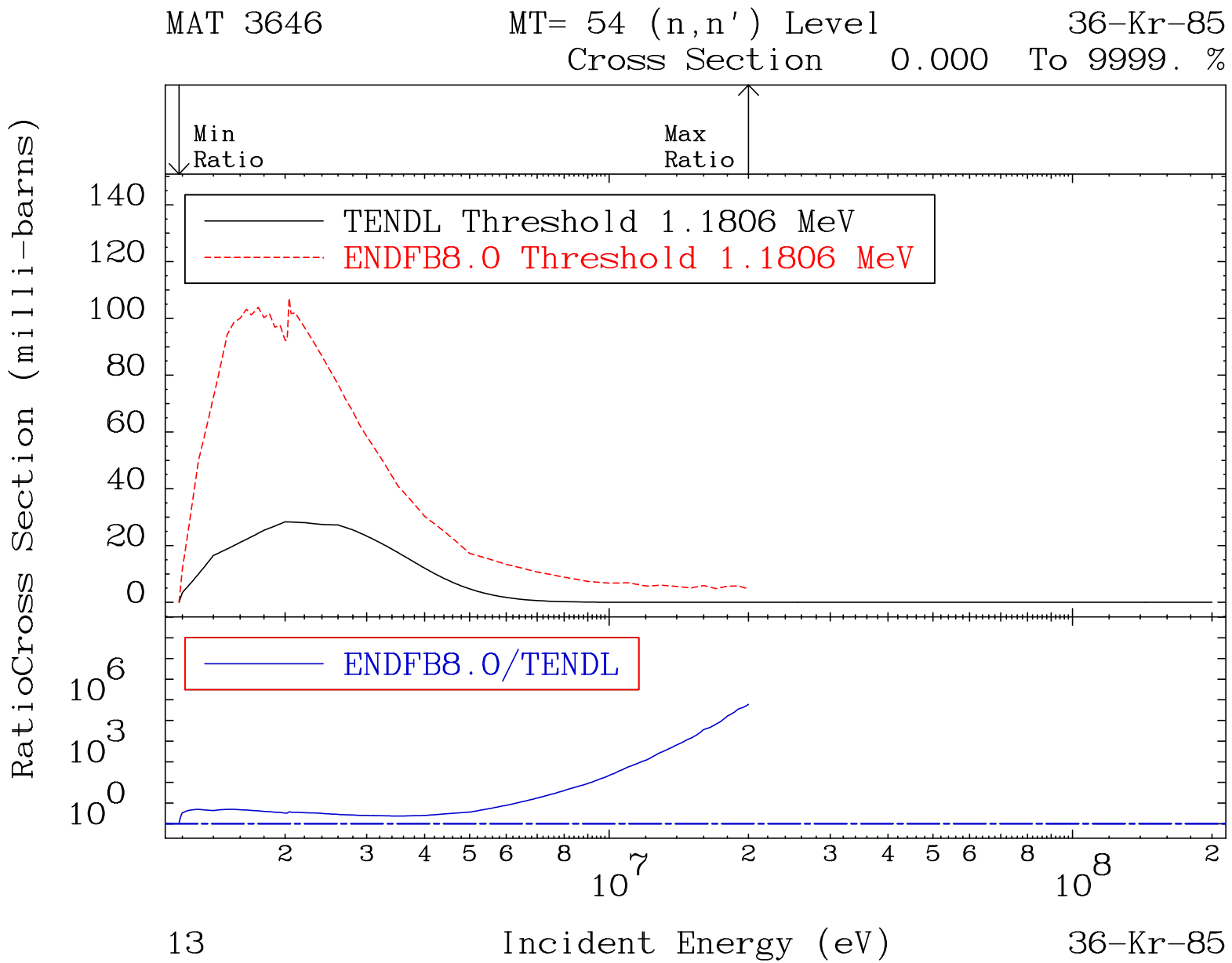

MAT 3646
(n,n') p
Cross Section
36-Kr-85
-100.0 To 779.7 %
Max
Ratio
TENDL Threshold 11.117 MeV
ENDFB8.0 Threshold 11.125 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
12
8
4
0
2
3
4
5
6
7
8
9
2
10^8
8
Incident Energy (eV)
36-Kr-85

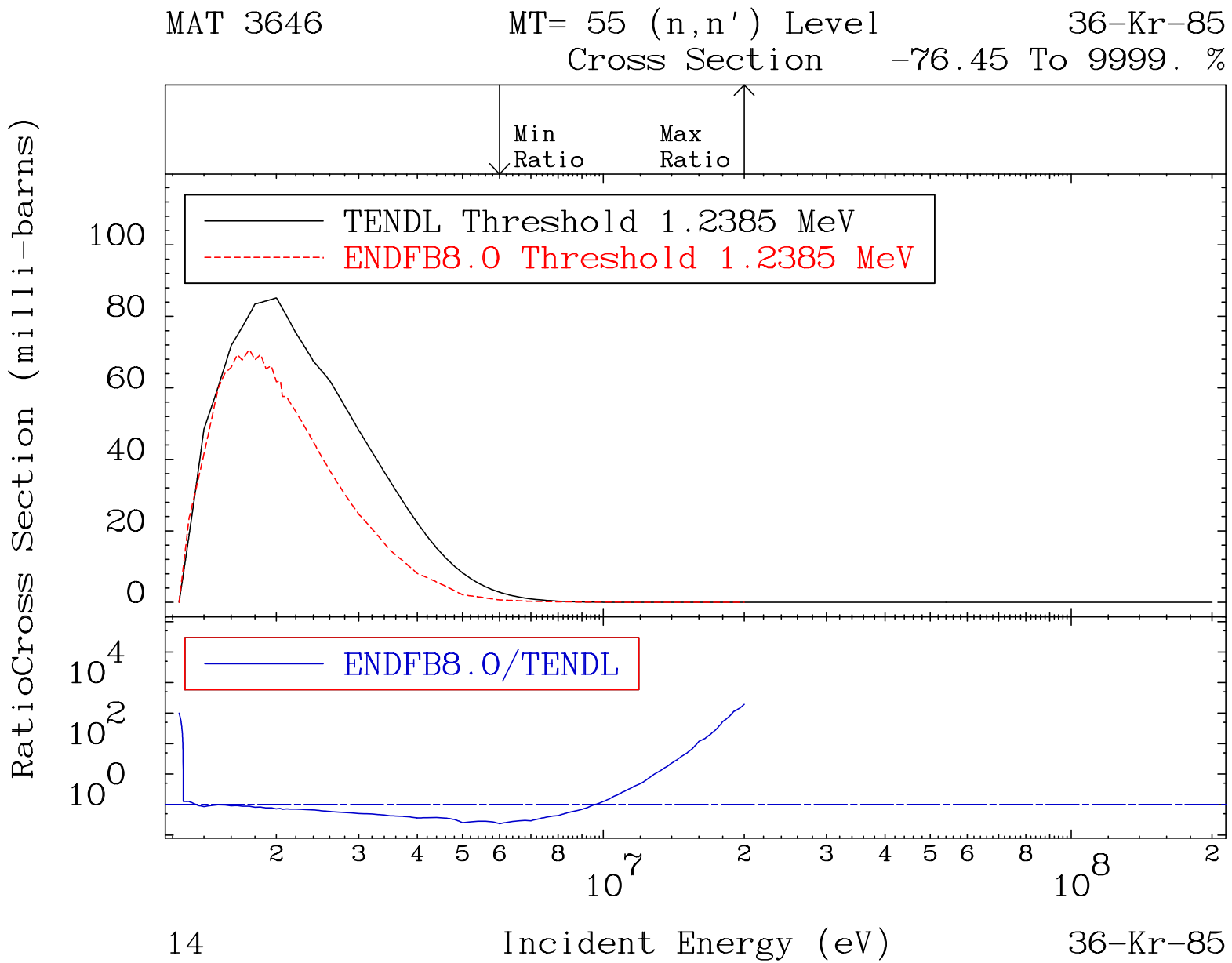

MAT 3646
(n,2n) p
Cross Section
36-Kr-85
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 18.039 MeV
ENDFB8.0 Threshold 18.044 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
0.8
0.4
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
36-Kr-85

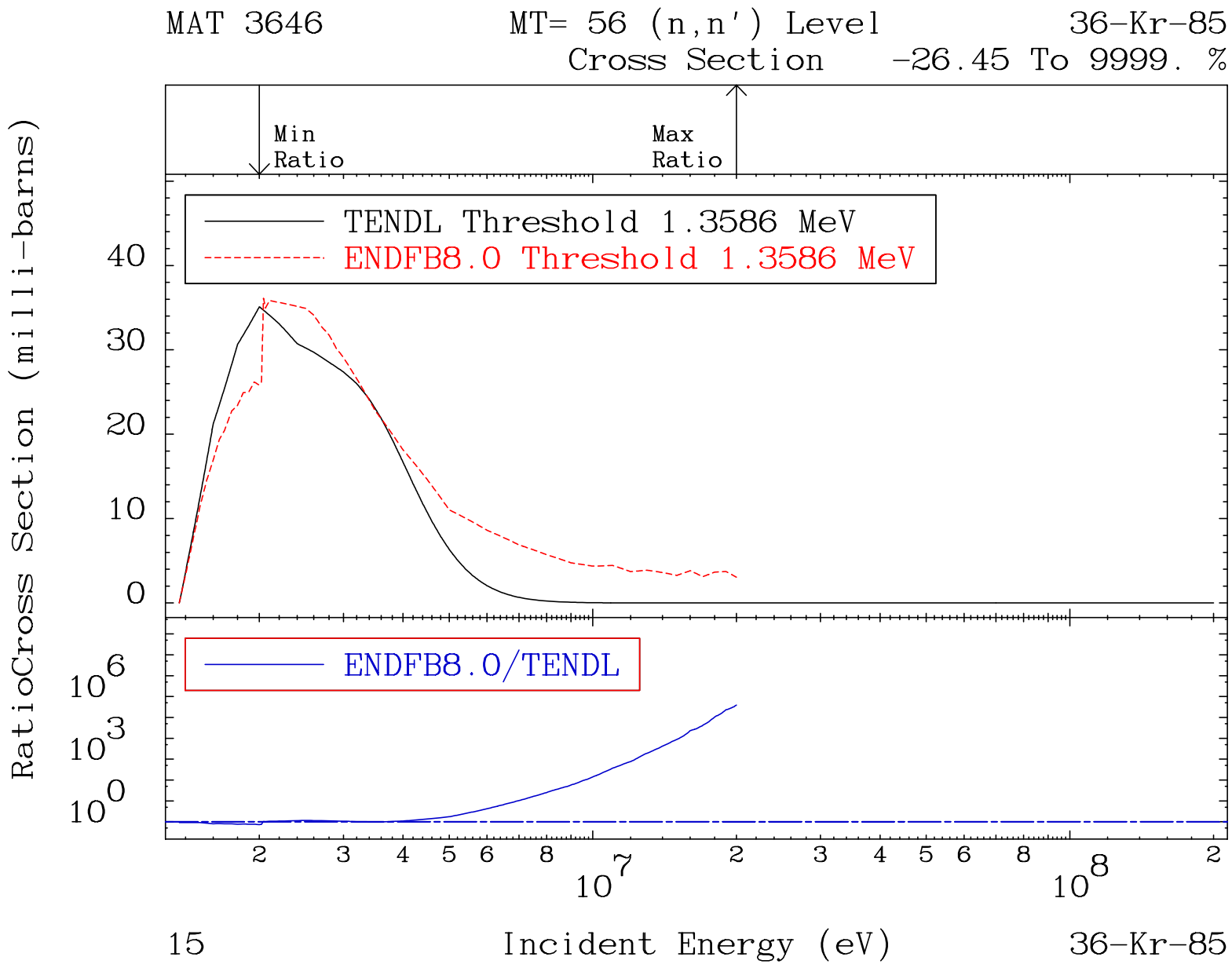

MAT 3646
MT= 51 (n,n') Level
36-Kr-85
Cross Section -75.78 To 554.4 %
Min Ratio
Max Ratio
TENDL Threshold 308.49 keV
ENDFB8.0 Threshold 308.49 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36-Kr-85

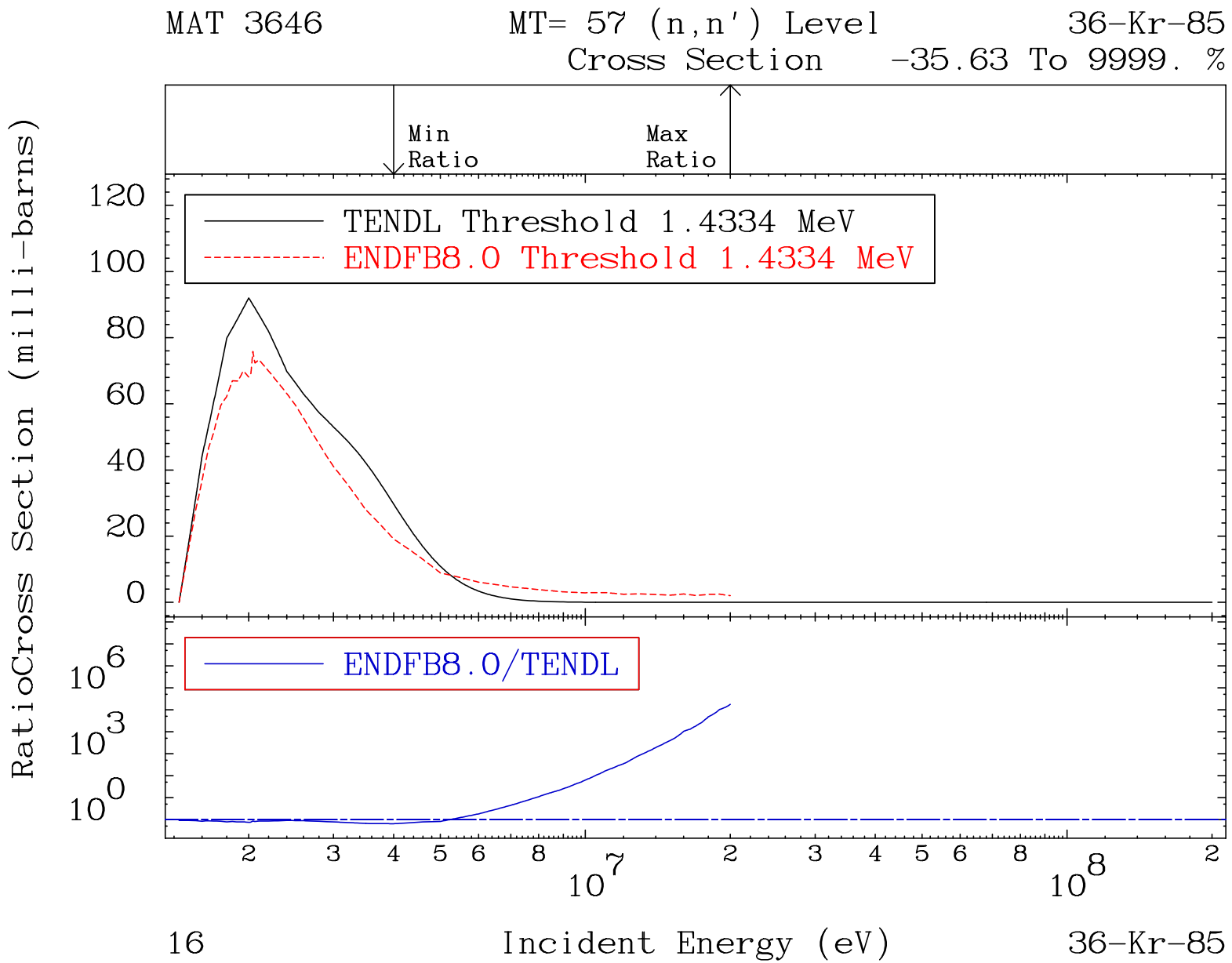

MAT 3646
MT= 52 (n,n') Level
36-Kr-85
Cross Section -75.07 To 558.8 %
Min Ratio
Max Ratio
TENDL Threshold 1.1205 MeV
ENDFB8.0 Threshold 1.1205 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
36-Kr-85

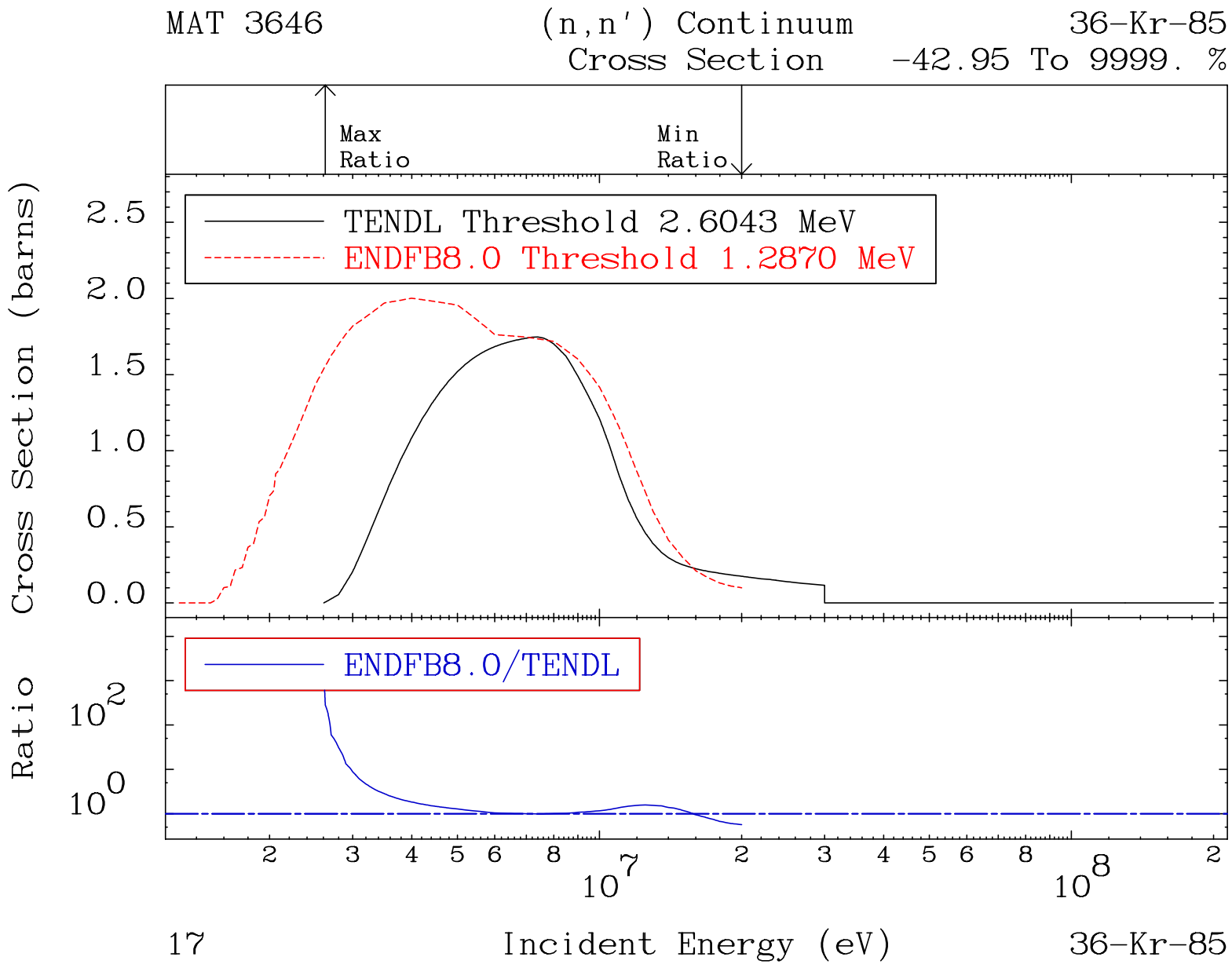

MAT 3646
MT= 53 (n,n') Level
36-Kr-85
Cross Section -25.34 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1543 MeV
ENDFB8.0 Threshold 1.1543 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
36-Kr-85

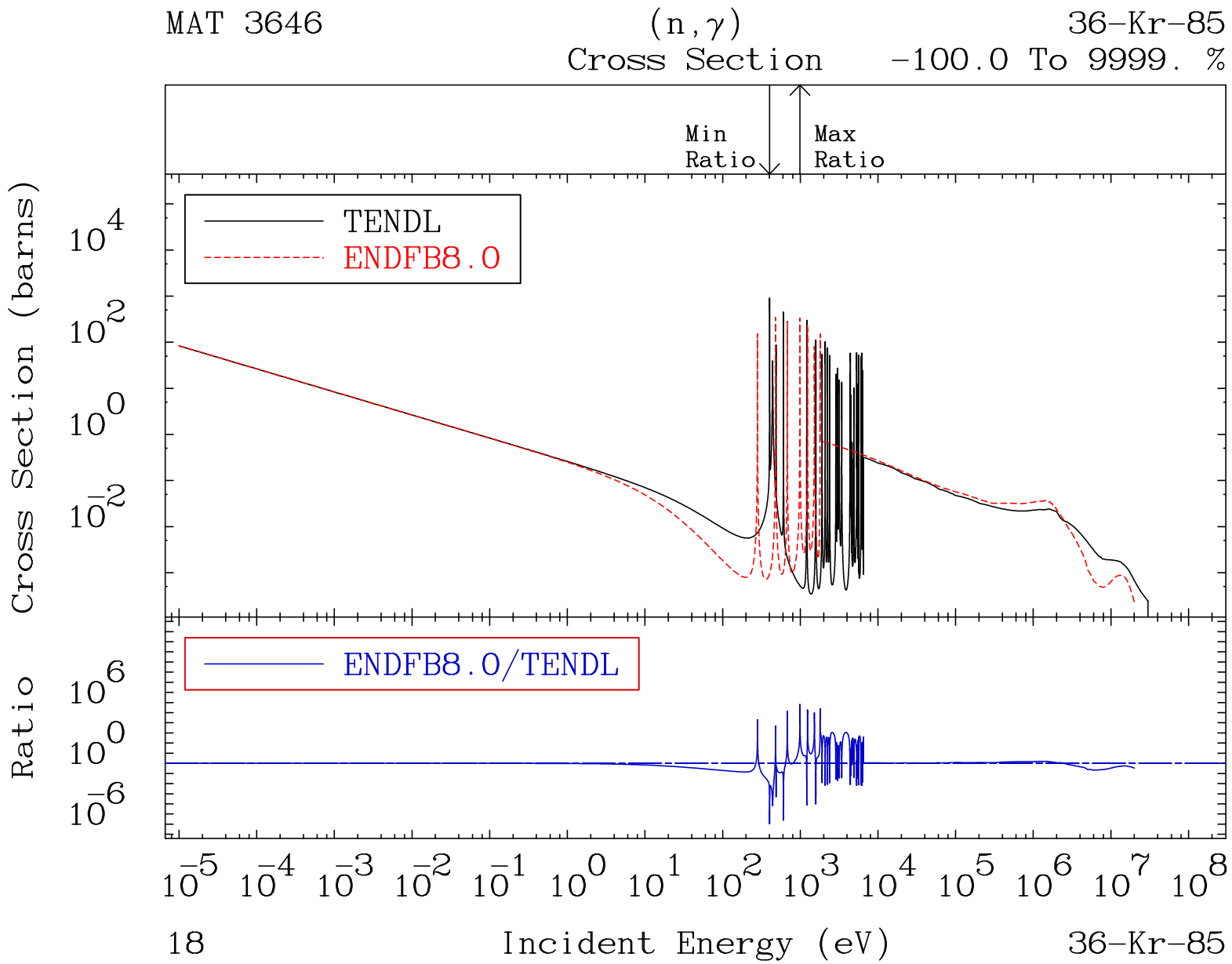

MAT 3646
MT= 54 (n,n') Level
36-Kr-85
Cross Section 0.000 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1806 MeV
ENDFB8.0 Threshold 1.1806 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
13
36-Kr-85

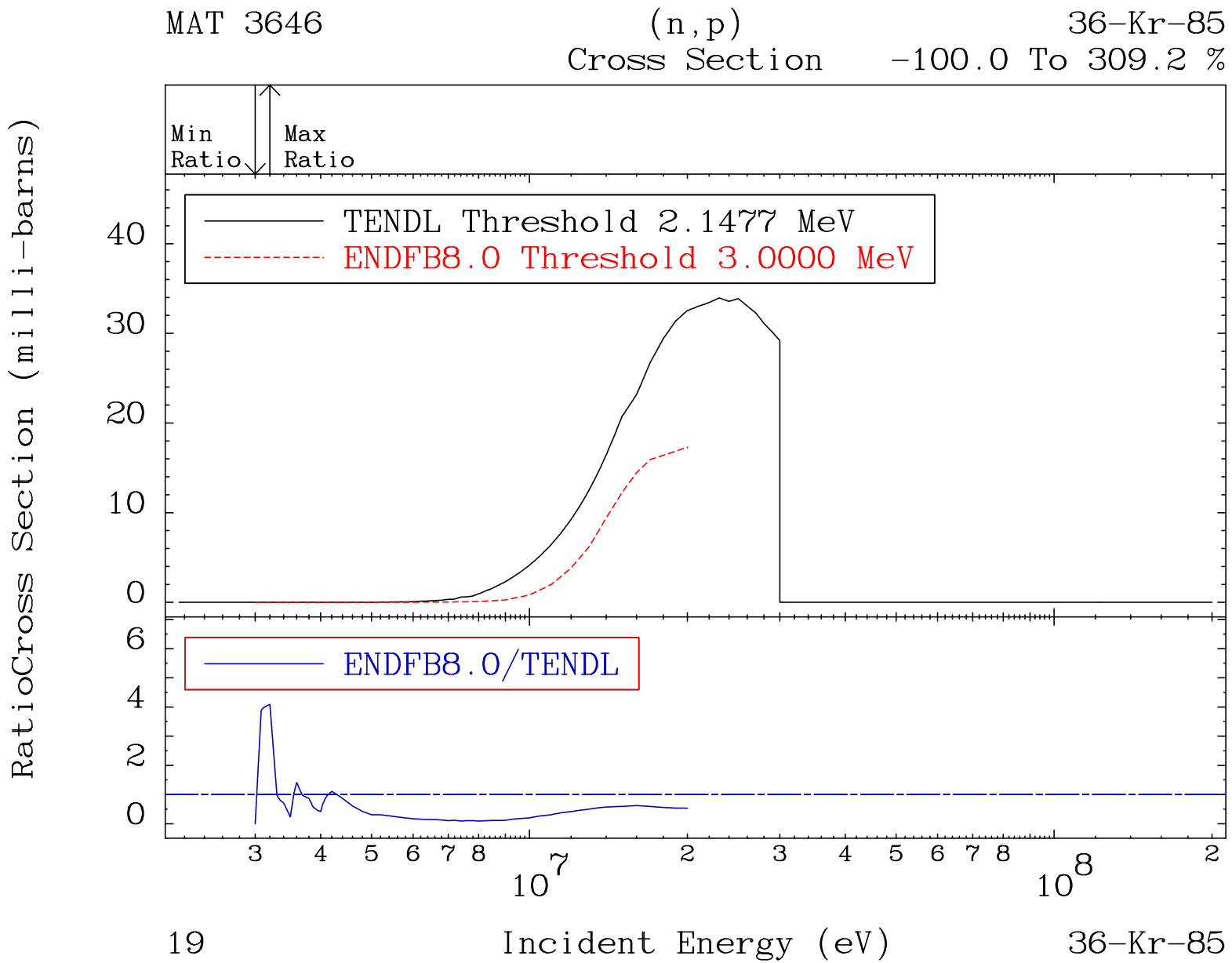

MAT 3646
MT= 55 (n,n') Level
36-Kr-85
Cross Section -76.45 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2385 MeV
ENDFB8.0 Threshold 1.2385 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
14
36-Kr-85

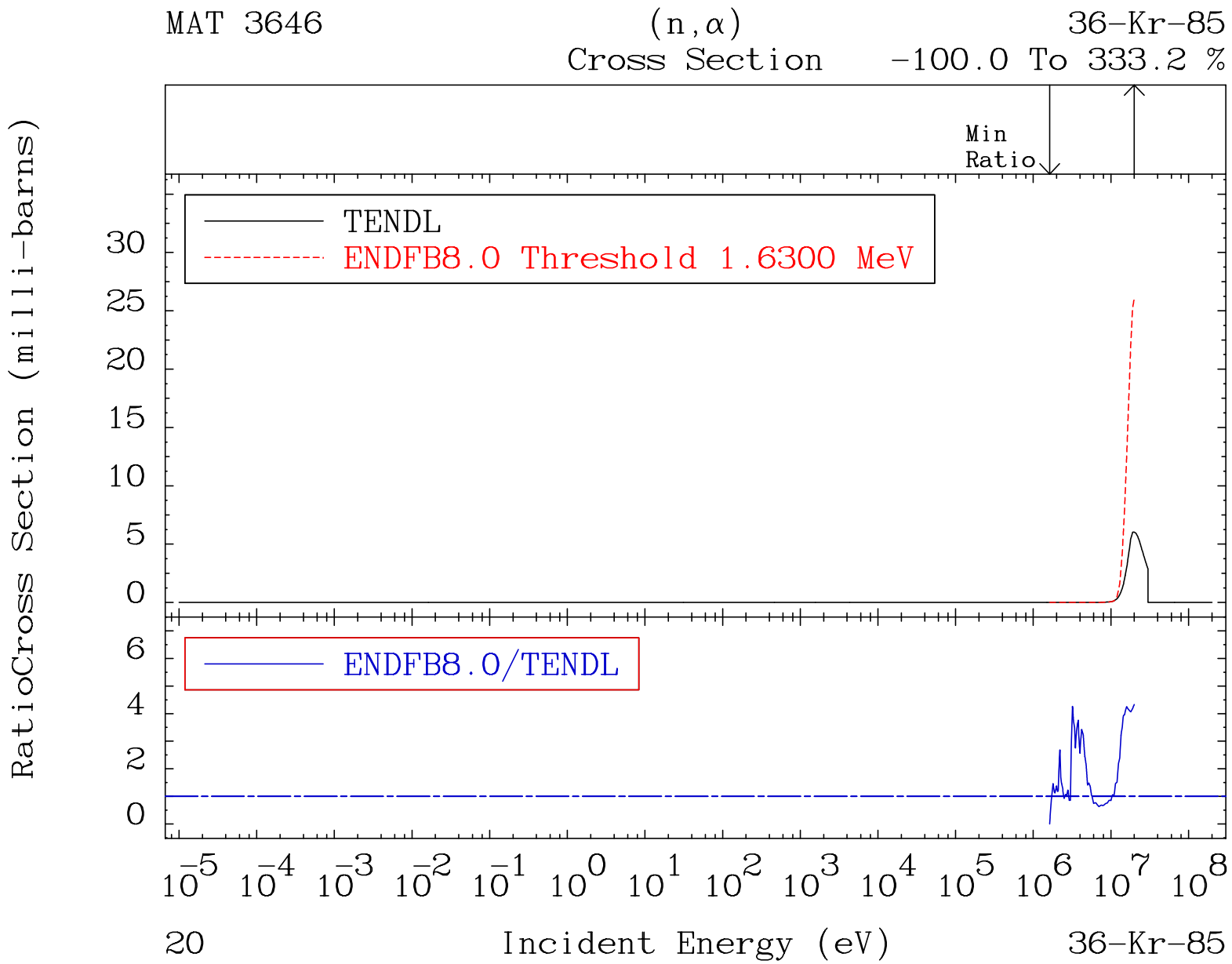

MAT 3646
MT= 56 (n,n') Level
36-Kr-85
Cross Section -26.45 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3586 MeV
ENDFB8.0 Threshold 1.3586 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
36-Kr-85

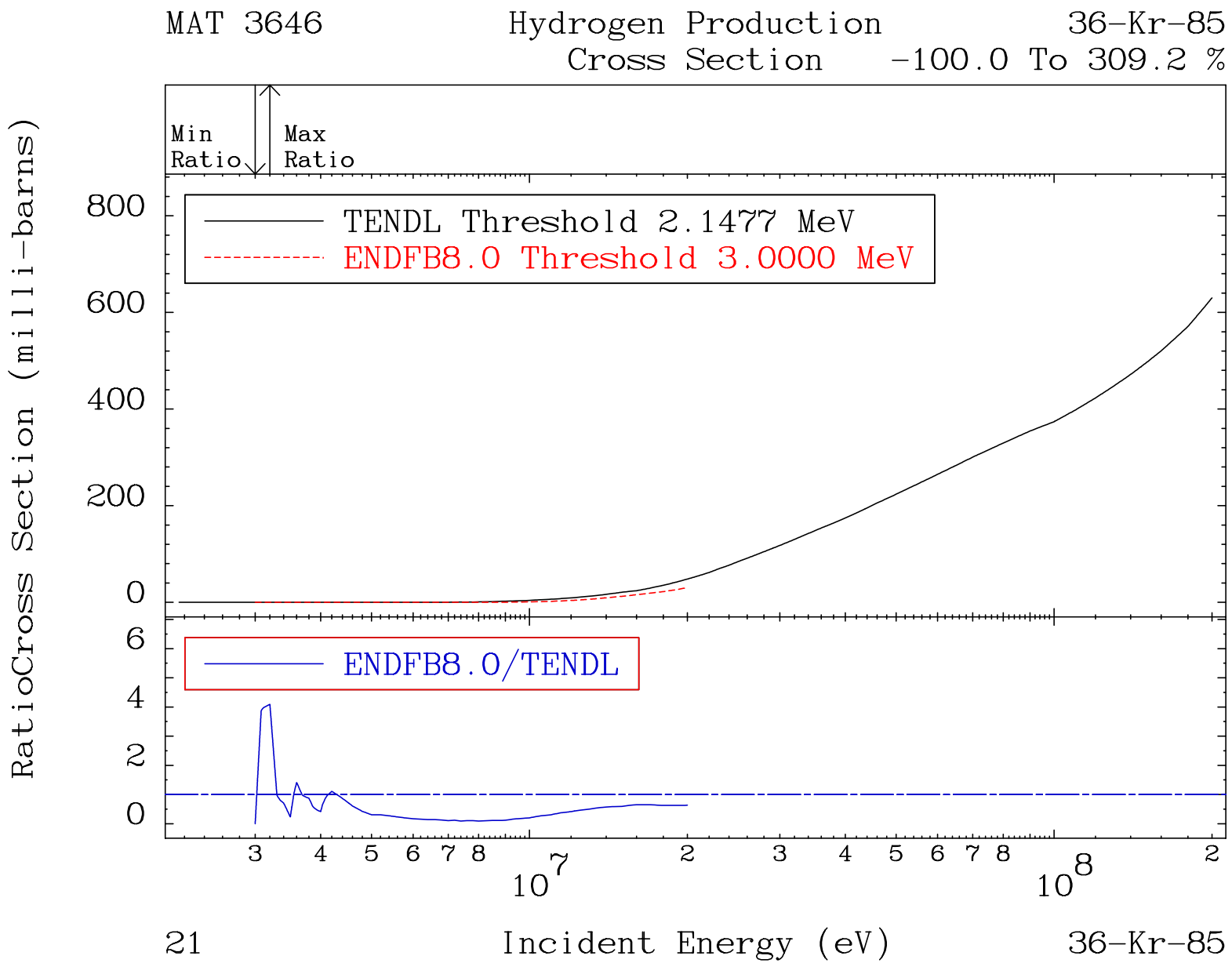

MAT 3646
MT= 57 (n,n') Level
36-Kr-85
Cross Section -35.63 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.4334 MeV
ENDFB8.0 Threshold 1.4334 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
36-Kr-85

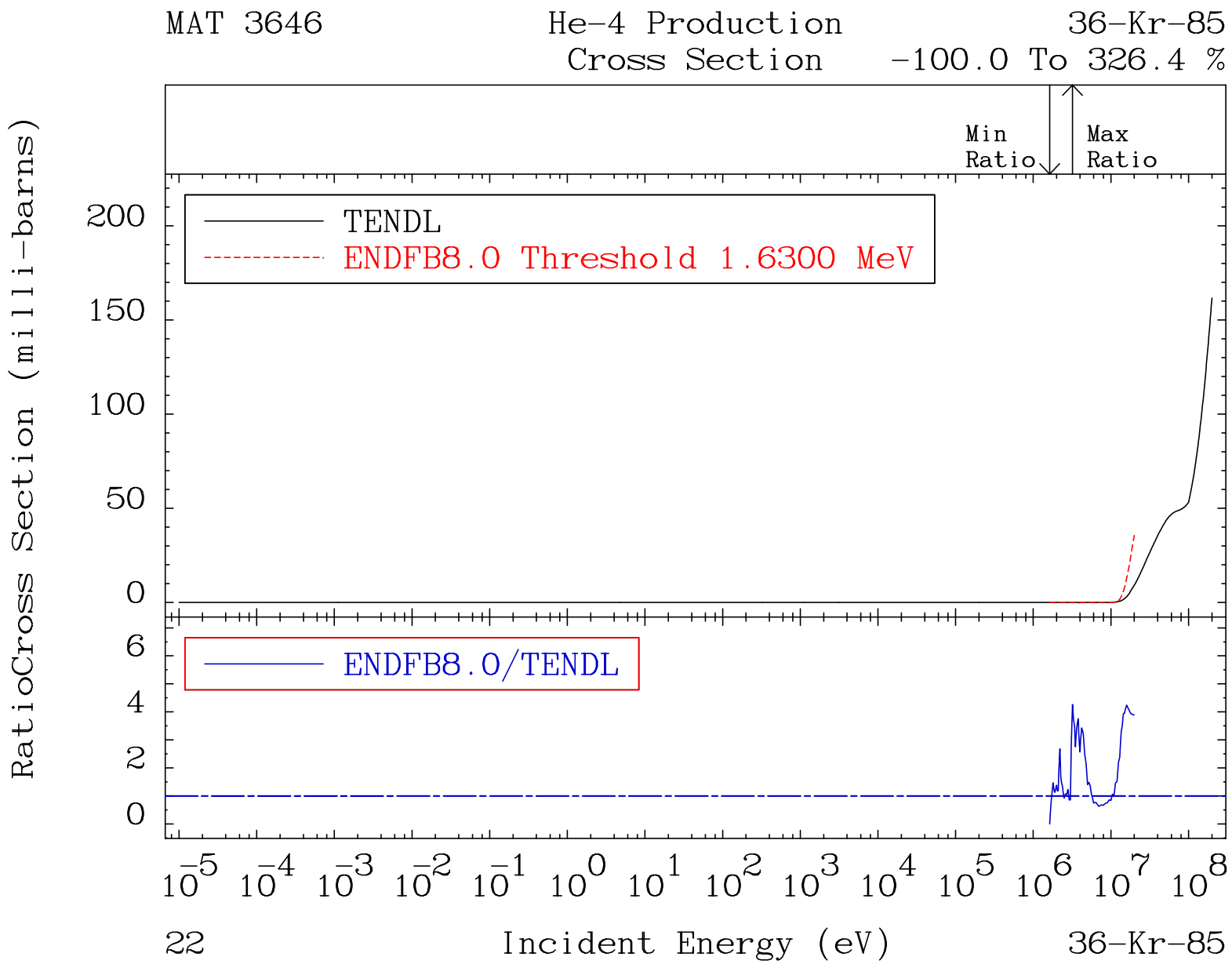

MAT 3646
(n,n') Continuum
Cross Section
36-Kr-85
-42.95 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.6043 MeV
ENDFB8.0 Threshold 1.2870 MeV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
36-Kr-85

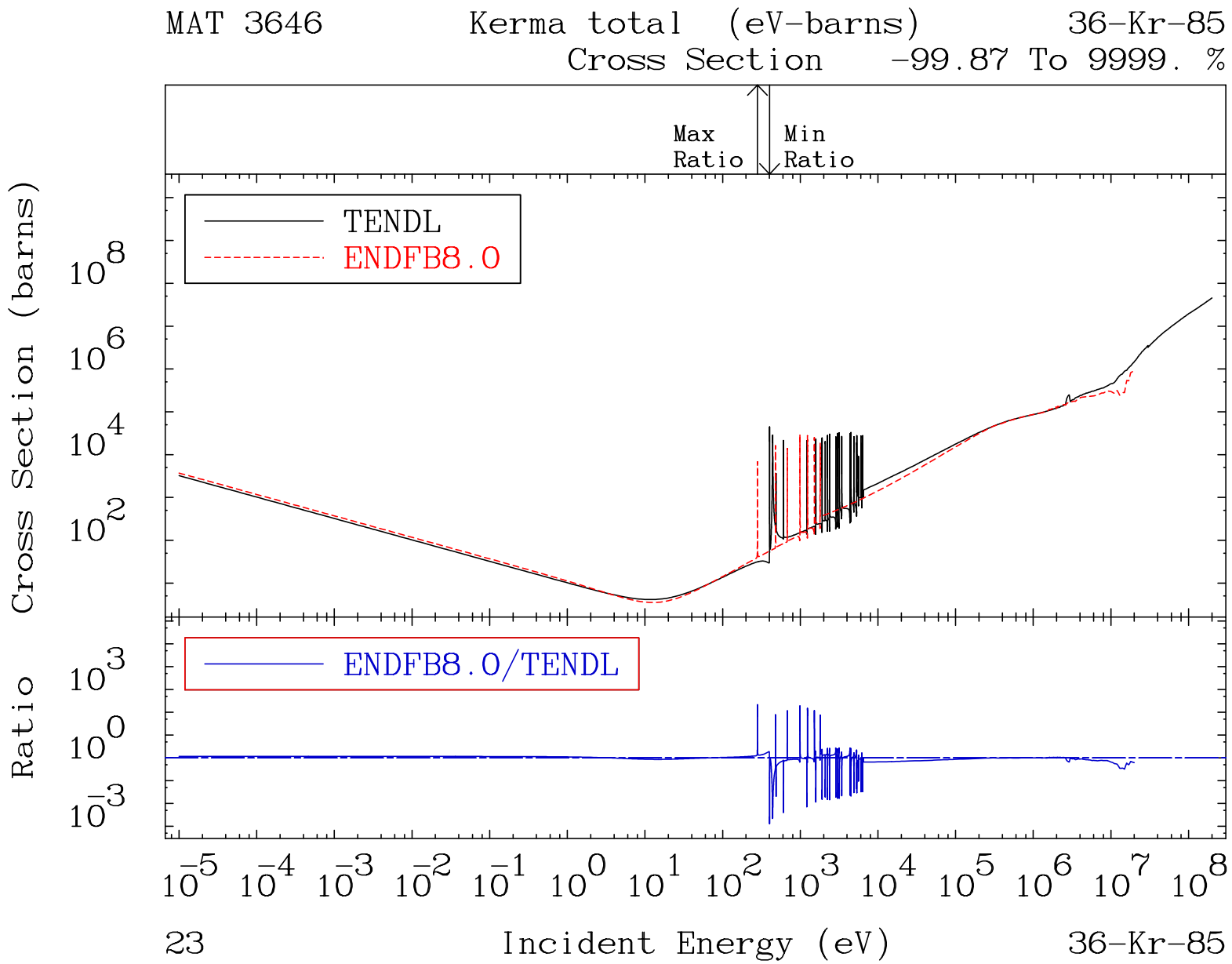

MAT 3646
(n,γ)
Cross Section
36-Kr-85
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
18
36-Kr-85

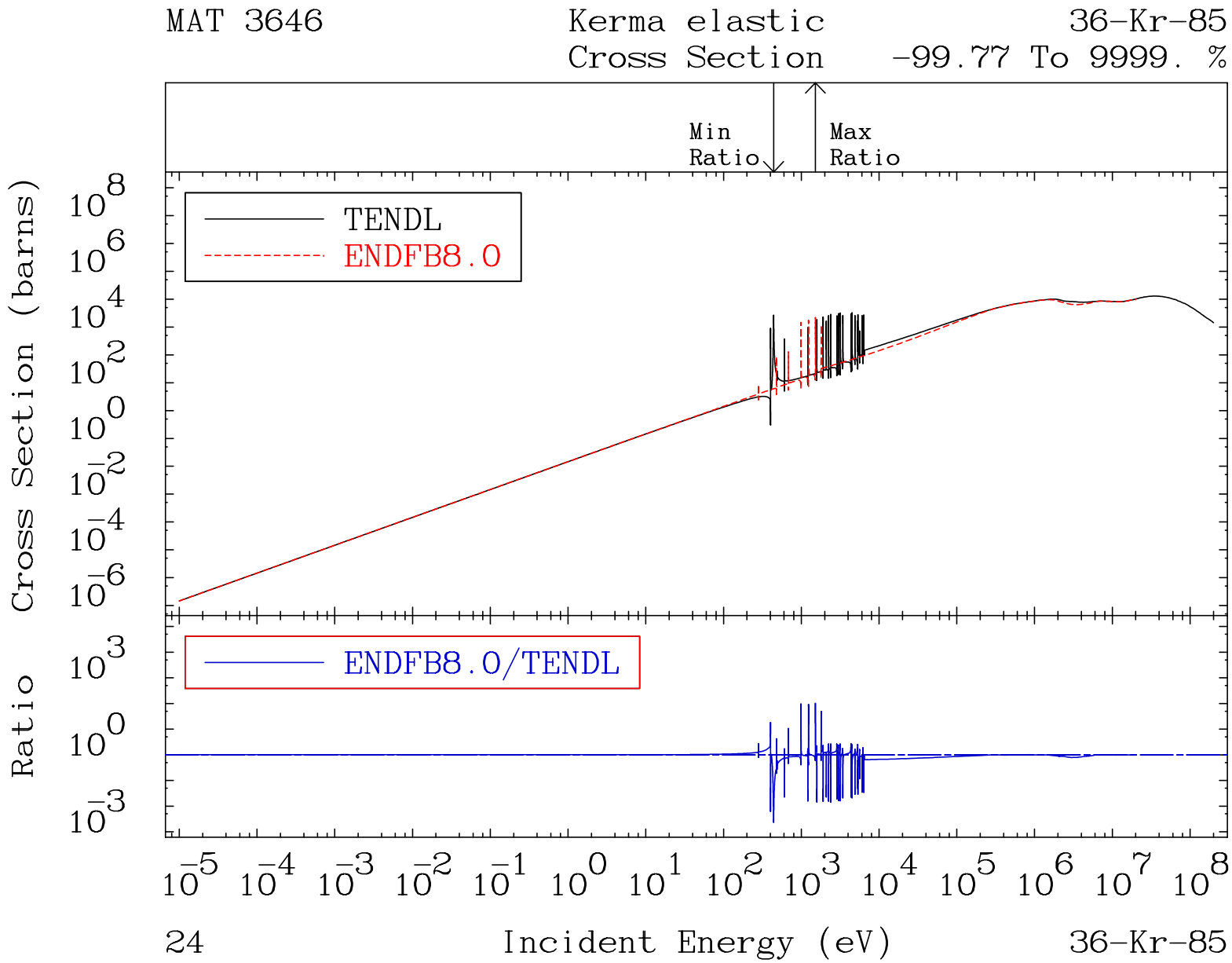

MAT 3646
(n,p)
36-Kr-85
Cross Section
-100.0 To 309.2 %
Min Ratio
Max Ratio
TENDL Threshold 2.1477 MeV
ENDFB8.0 Threshold 3.0000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
36-Kr-85

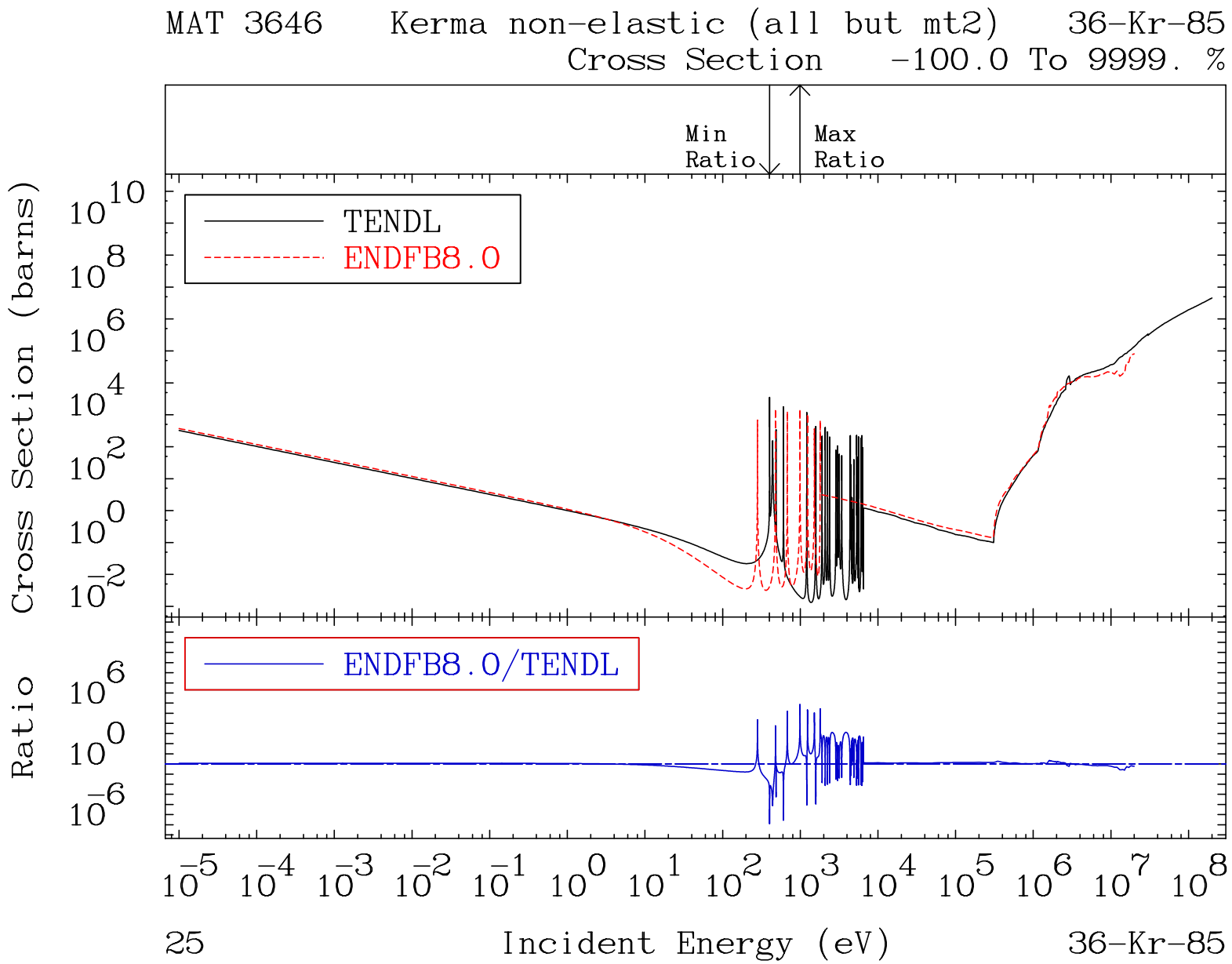

MAT 3646
(n,α)
Cross Section
36-Kr-85
-100.0 To 333.2 %
Min
Ratio
TENDL
ENDFB8.0 Threshold 1.6300 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
6
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
20
Incident Energy (eV)
36-Kr-85

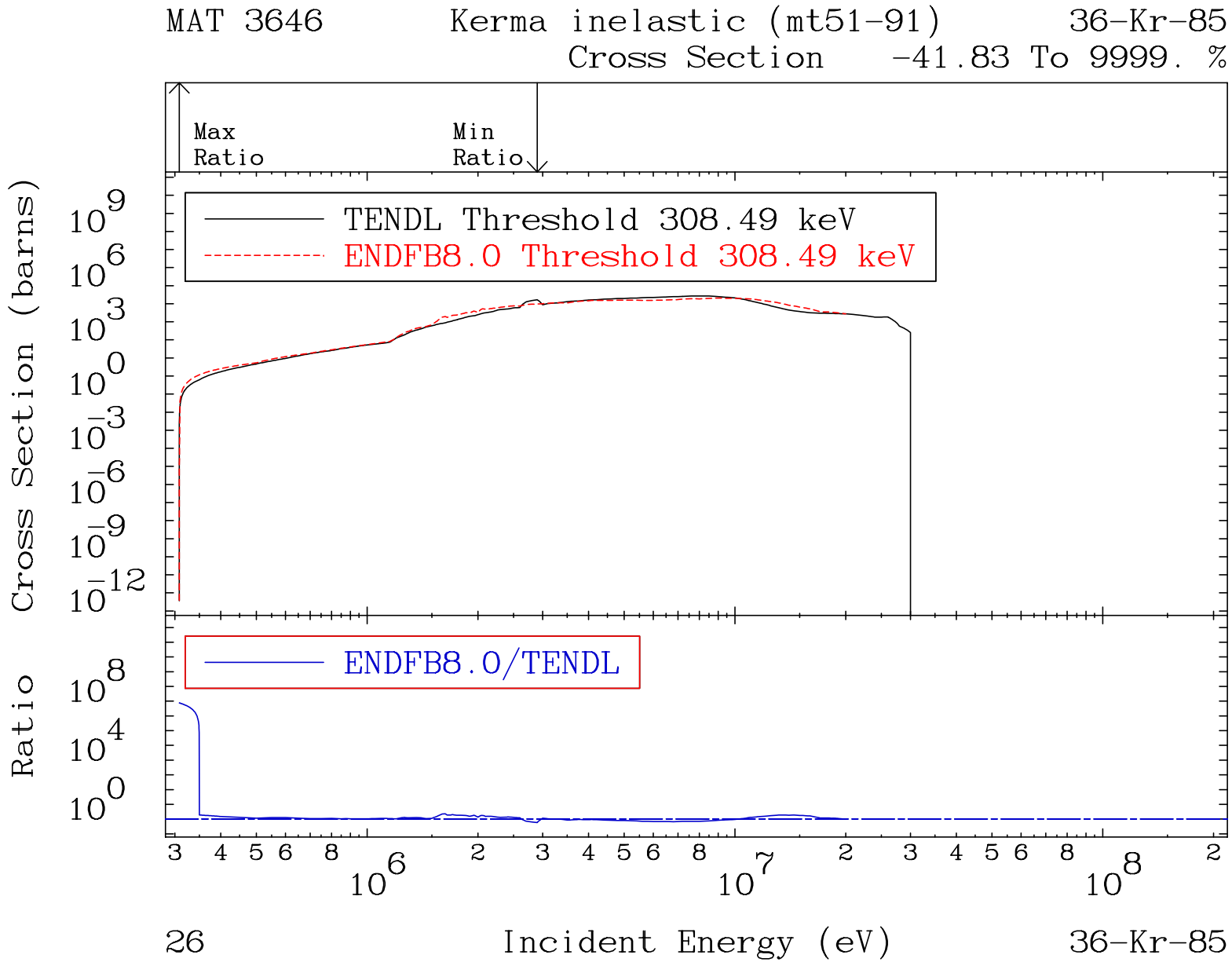

MAT 3646
Hydrogen Production
36-Kr-85
Cross Section -100.0 To 309.2 %
Min Ratio
Max Ratio
TENDL Threshold 2.1477 MeV
ENDFB8.0 Threshold 3.0000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
6
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
36-Kr-85

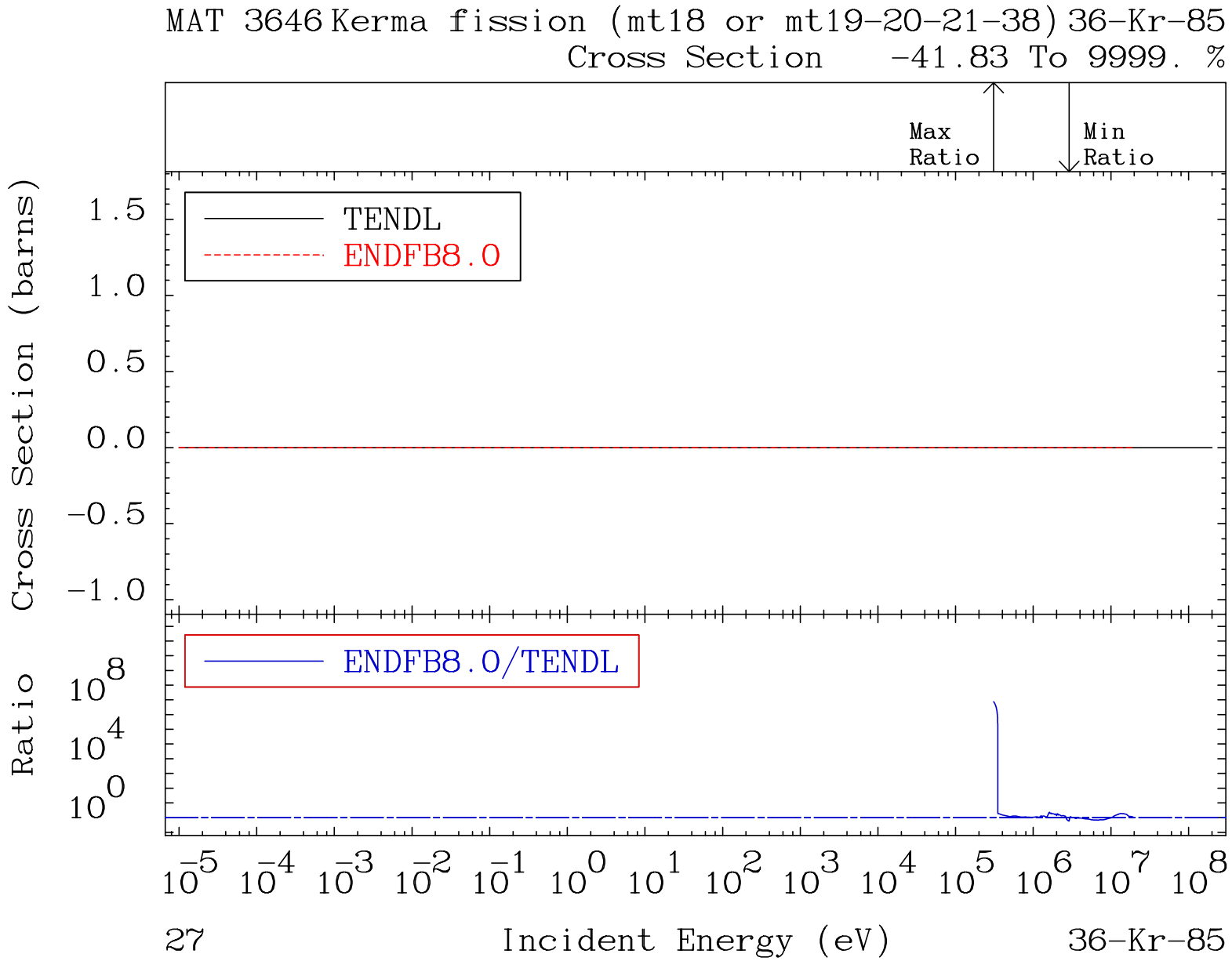

MAT 3646
He-4 Production
Cross Section
36-Kr-85
-100.0 To 326.4 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0 Threshold 1.6300 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
6
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
22
Incident Energy (eV)
36-Kr-85

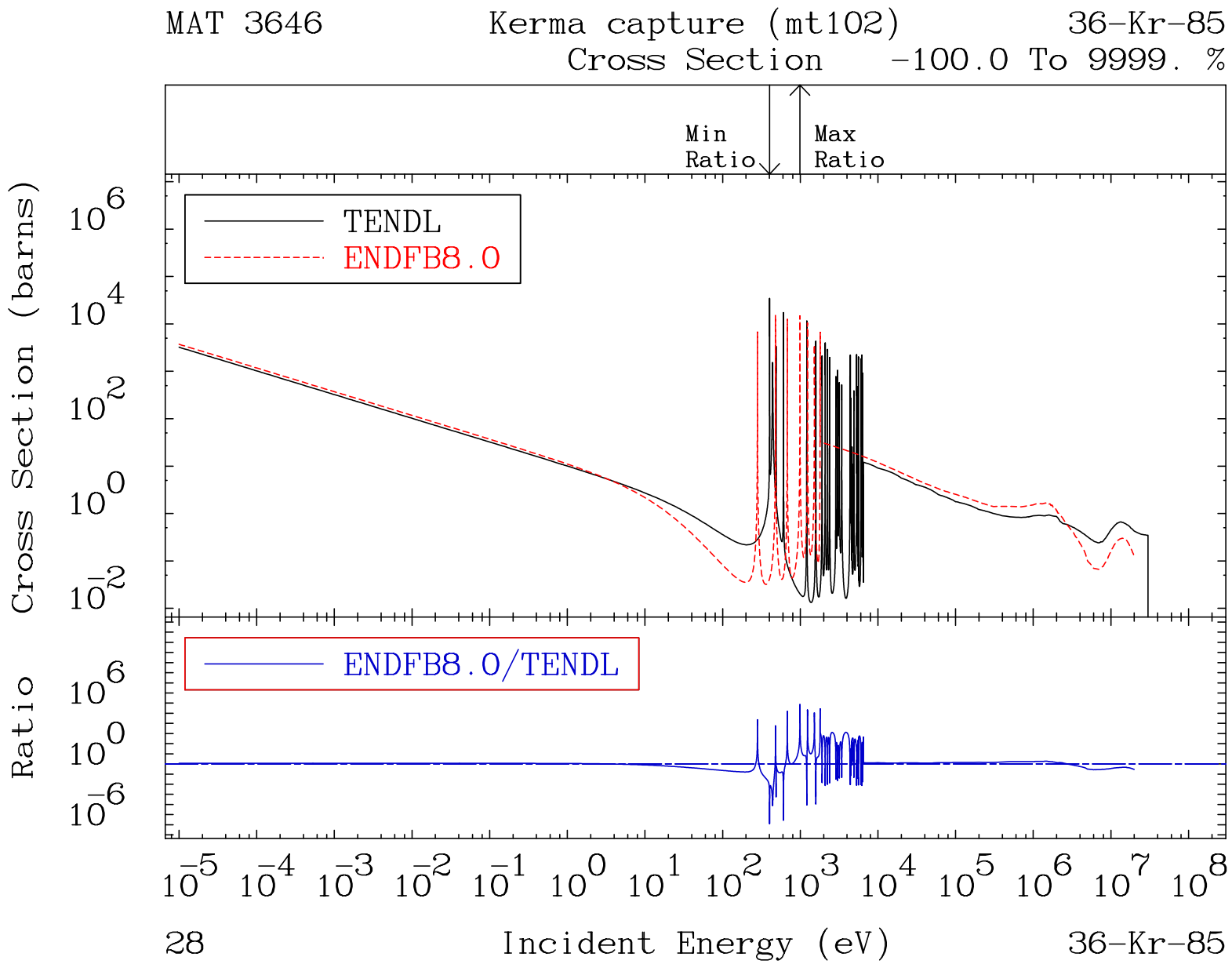

MAT 3646
Kerma total (eV-barns)
36-Kr-85
Cross Section -99.87 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
23
36-Kr-85

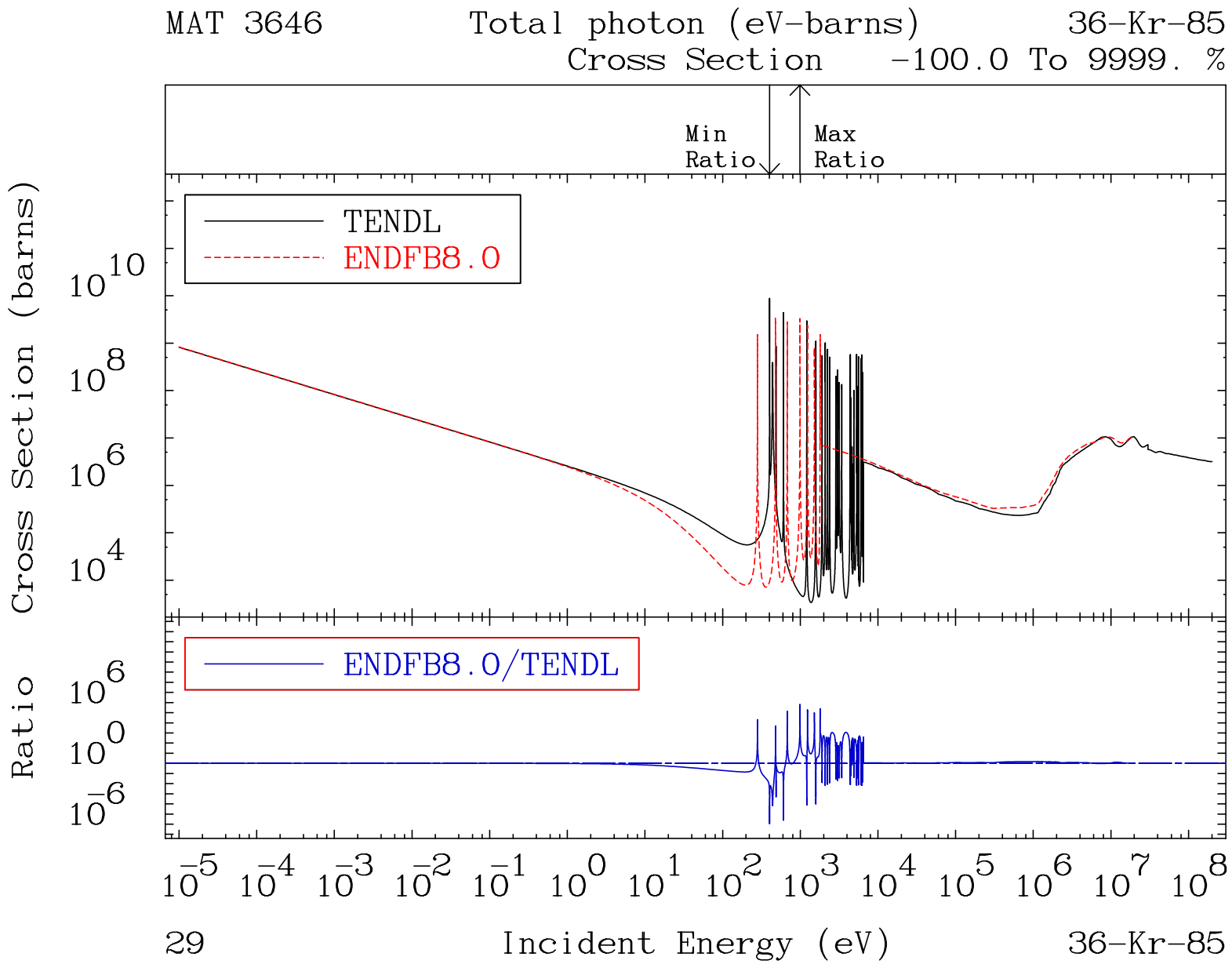

MAT 3646
Kerma elastic
Cross Section
36-Kr-85
-99.77 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
24
36-Kr-85

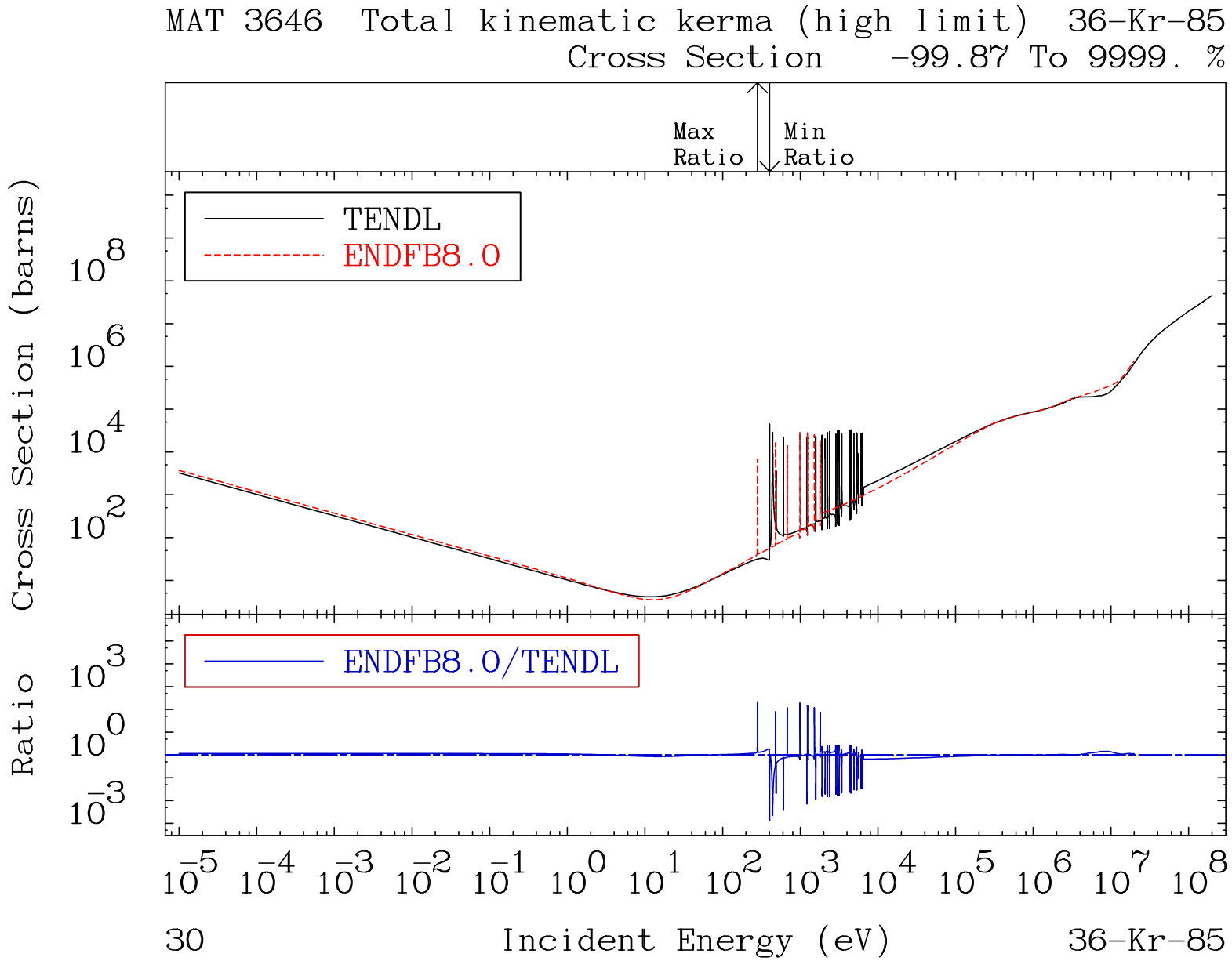

MAT 3646 Kerma non-elastic (all but mt2) 36-Kr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
25
36-Kr-85

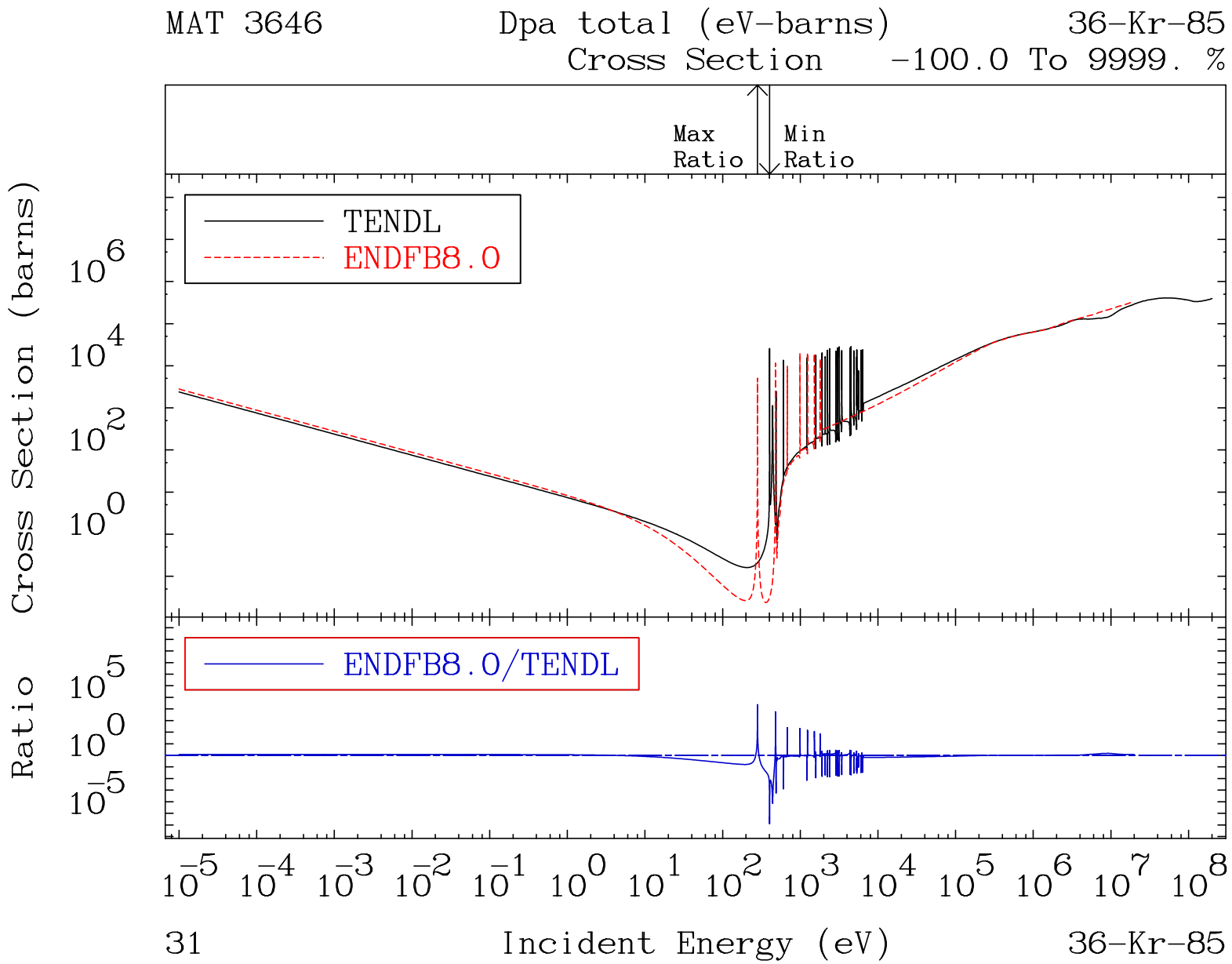

MAT 3646
Kerma inelastic (mt51-91)
36-Kr-85
Cross Section -41.83 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 308.49 keV
ENDFB8.0 Threshold 308.49 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
26
36-Kr-85

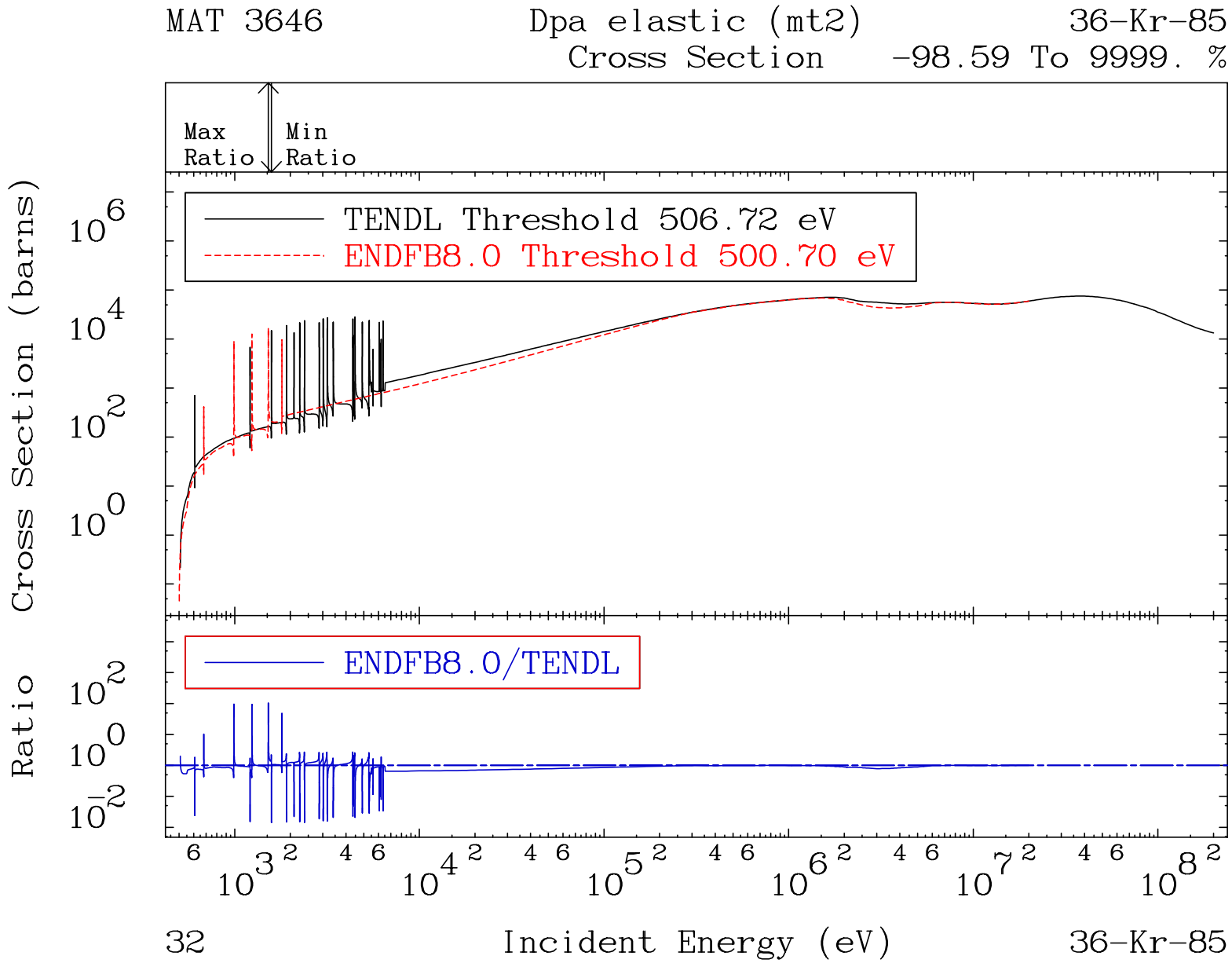

MAT 3646 Kerma fission (mt18 or mt19-20-21-38) 36-Kr-85
Cross Section -41.83 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^8
10^4
10^0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
27
Incident Energy (eV)
36-Kr-85

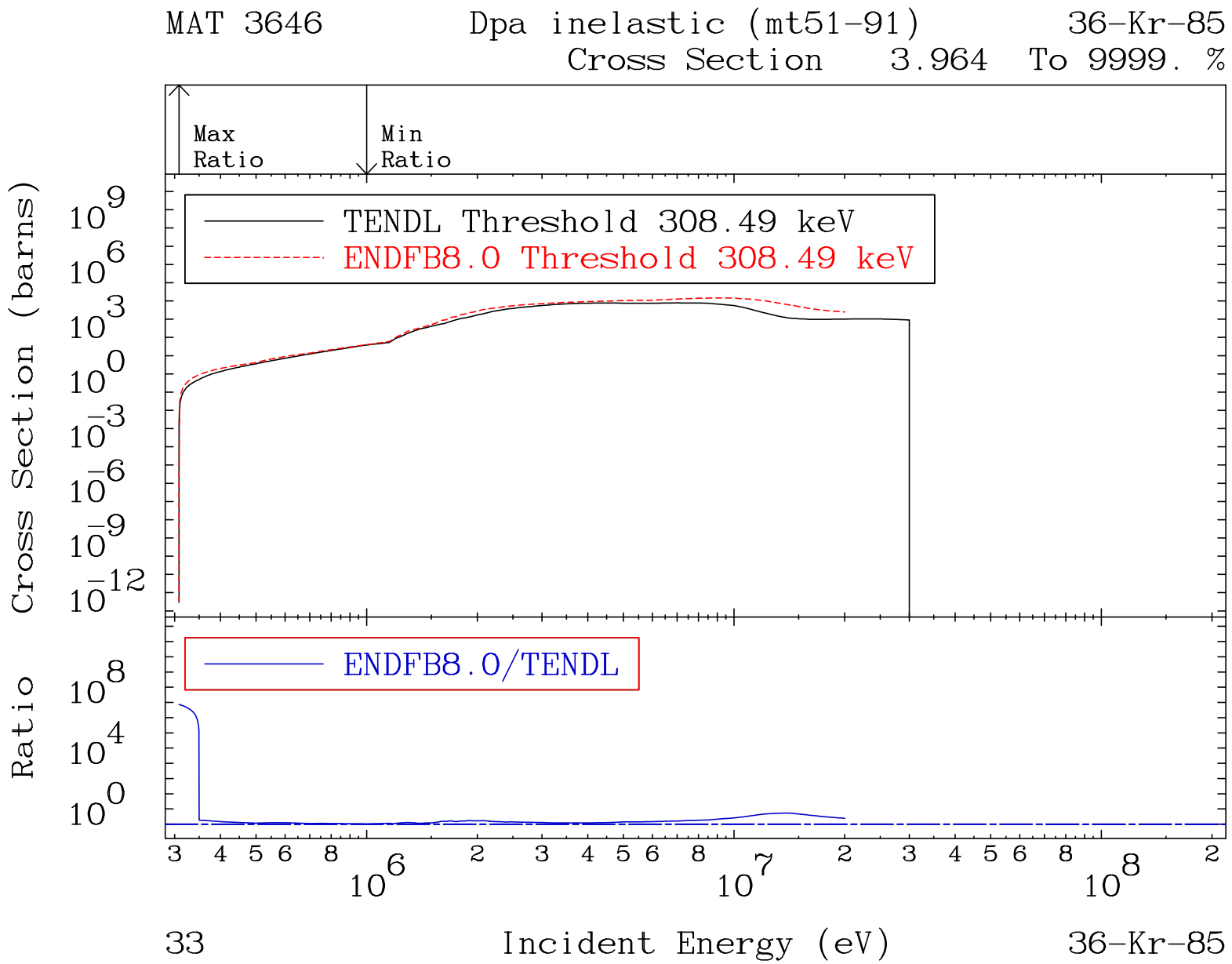

MAT 3646
Kerma capture (mt102)
36-Kr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
36-Kr-85

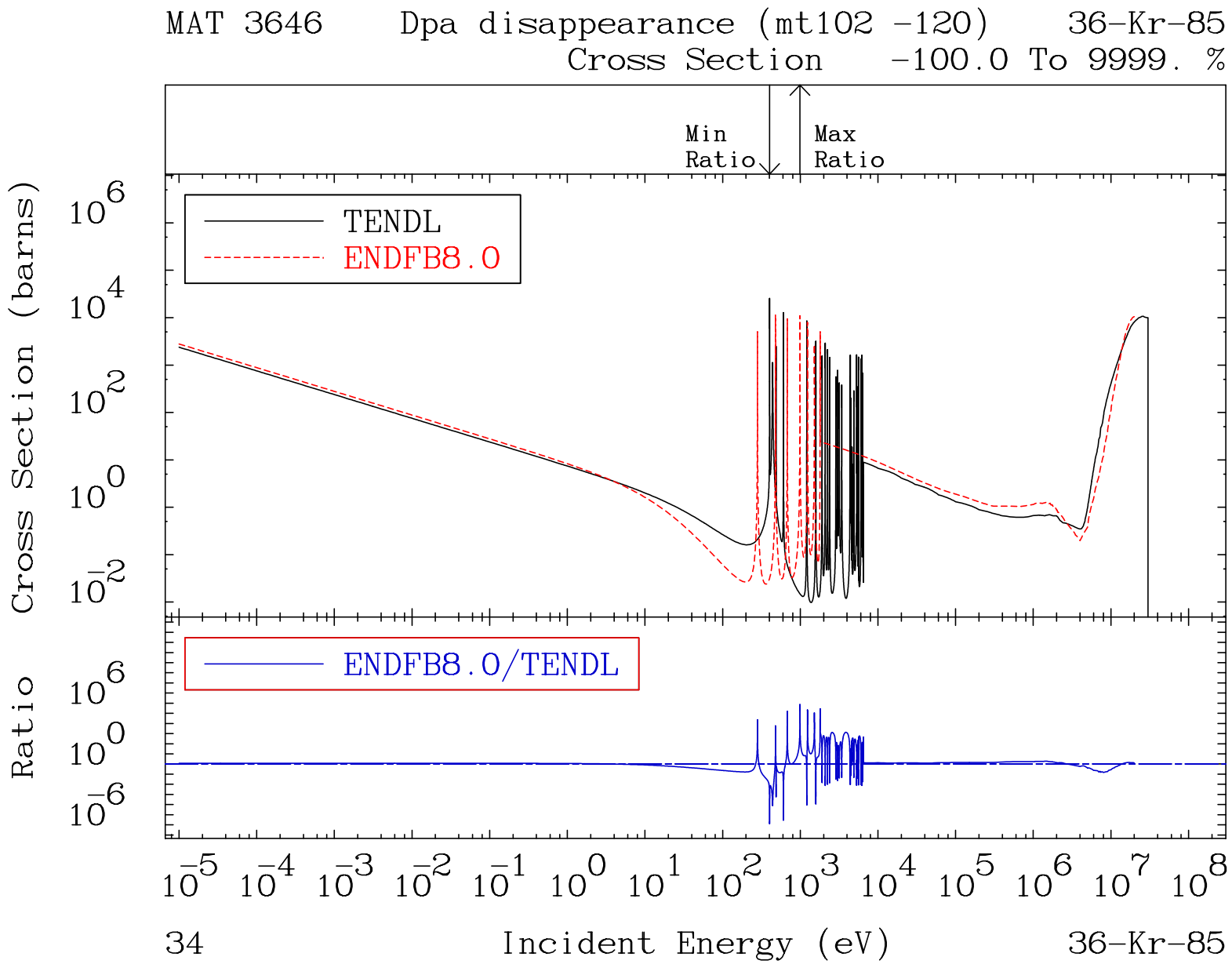

MAT 3646
Total photon (eV-barns)
36-Kr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
ENDFB8.0/TENDL
Ratio
10^{6}
10^{0}
10^{-6}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
29
Incident Energy (eV)
36-Kr-85


MAT 3646 Total kinematic kerma (high limit) 36-Kr-85
Cross Section -99.87 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
30
36-Kr-85


MAT 3646
Dpa total (eV-barns)
36-Kr-85
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
31
36-Kr-85


MAT 3646
Dpa elastic (mt2)
Cross Section
36-Kr-85
-98.59 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 506.72 eV
ENDFB8.0 Threshold 500.70 eV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
36-Kr-85


MAT 3646
Dpa inelastic (mt51-91)
36-Kr-85
Cross Section 3.964 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 308.49 keV
ENDFB8.0 Threshold 308.49 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
36-Kr-85


MAT 3646 Dpa disappearance (mt102 -120) 36-Kr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
36-Kr-85