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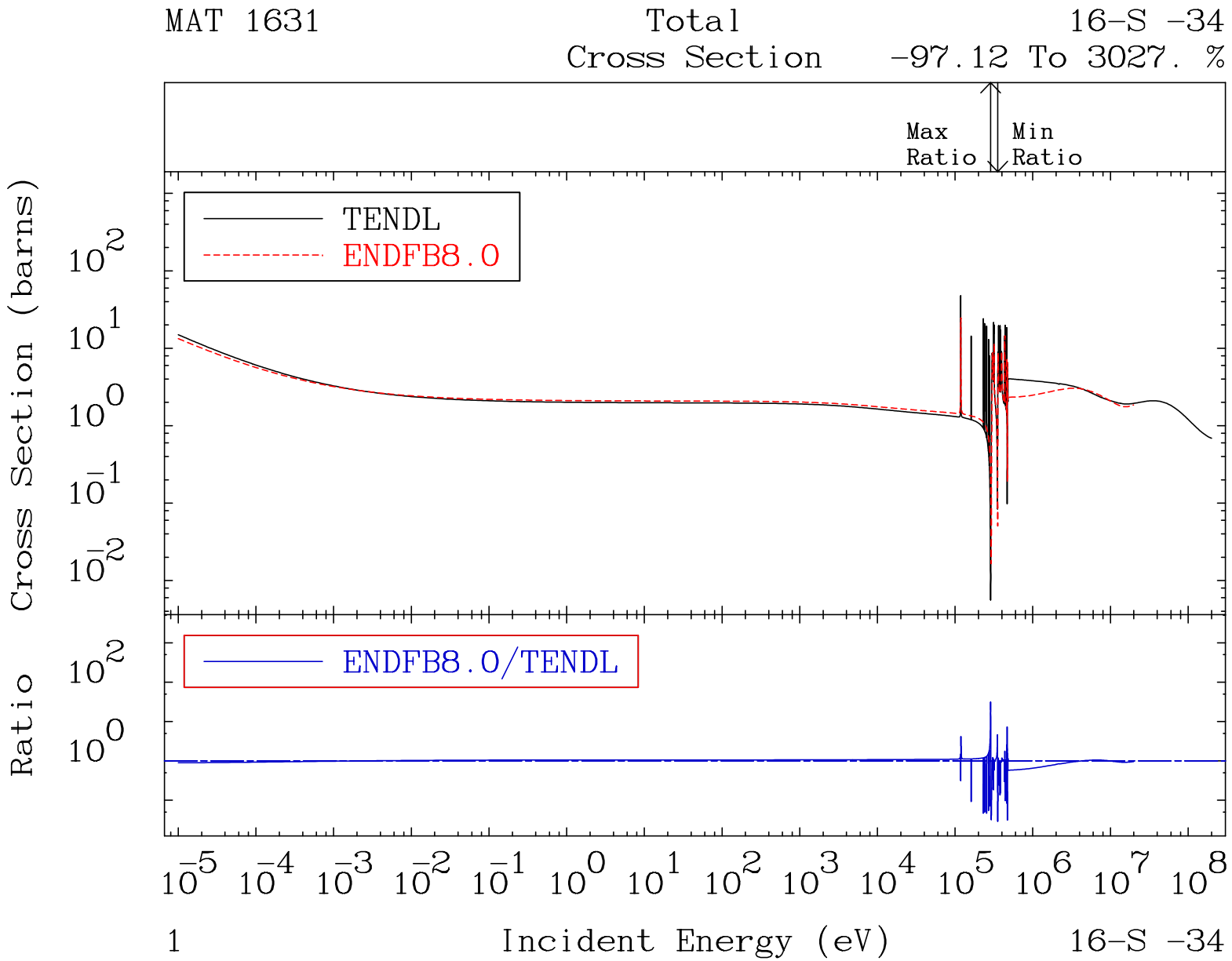
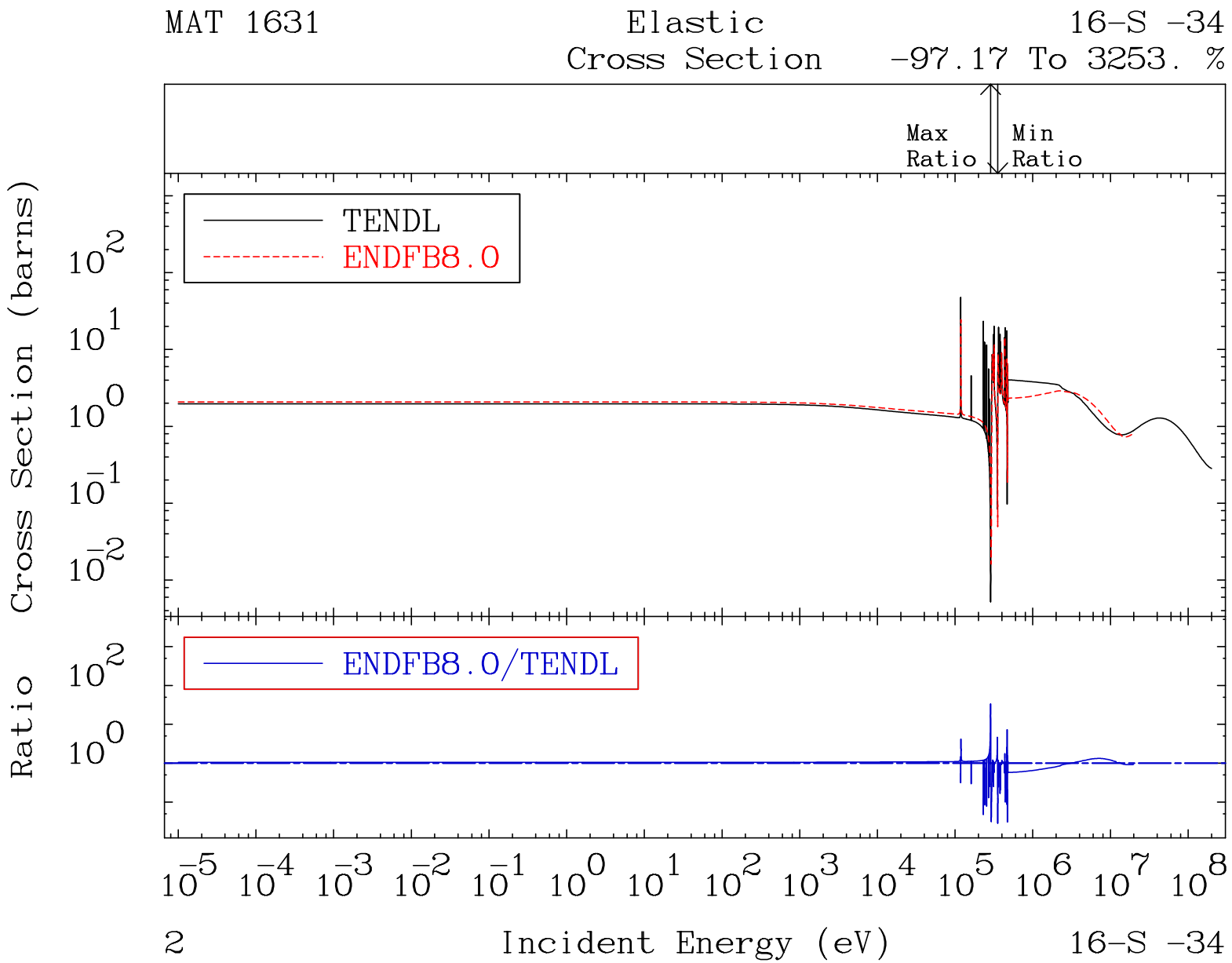
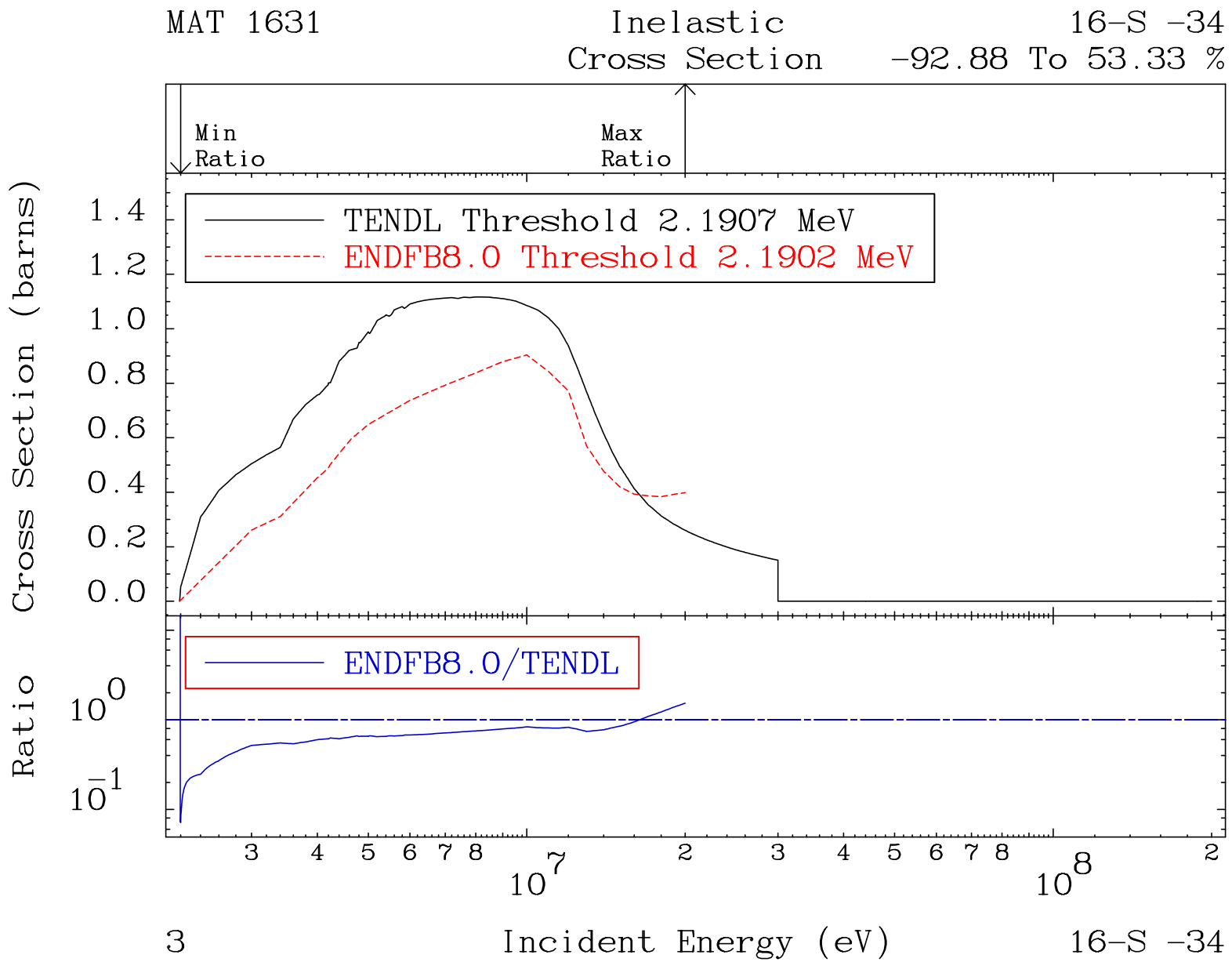
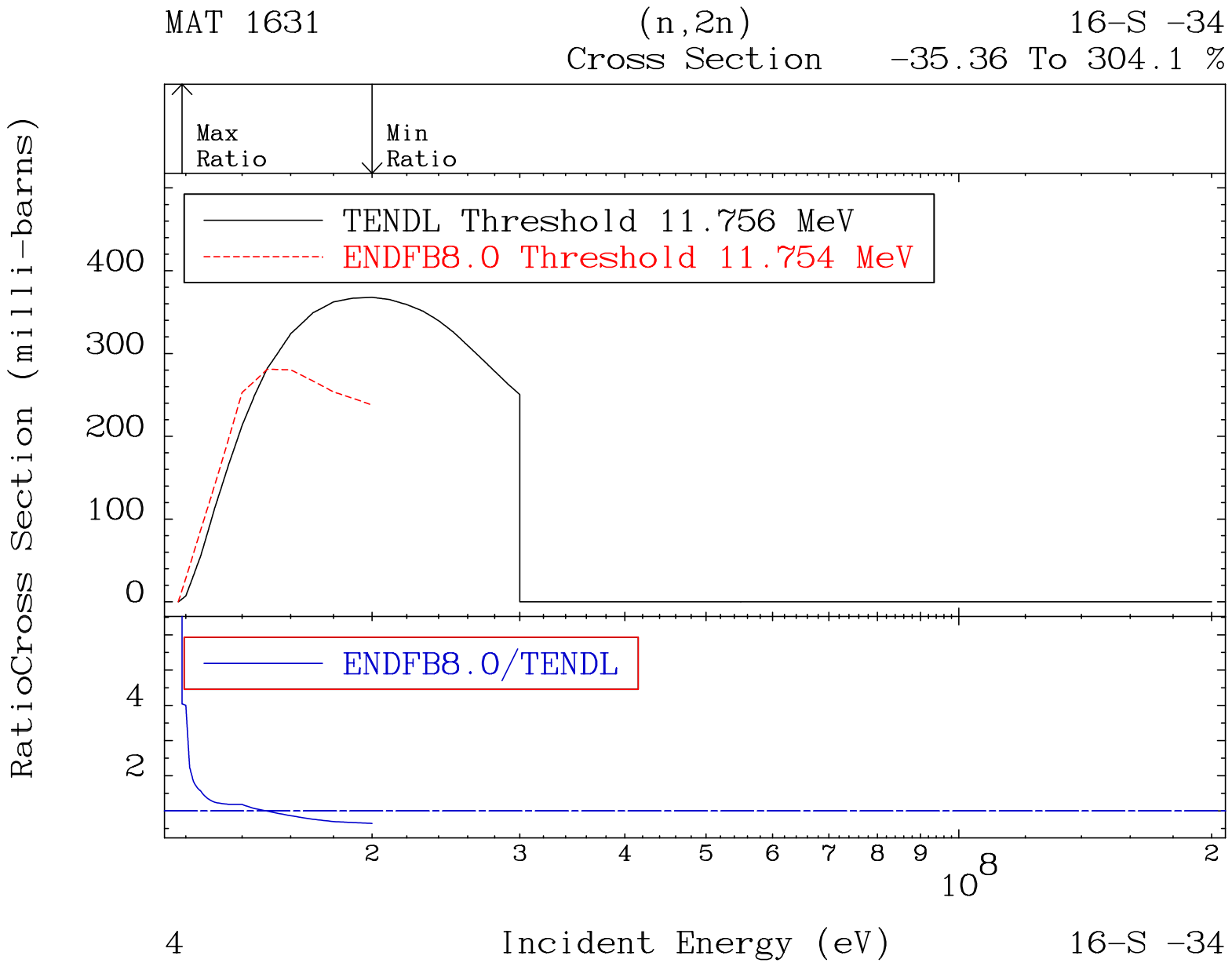
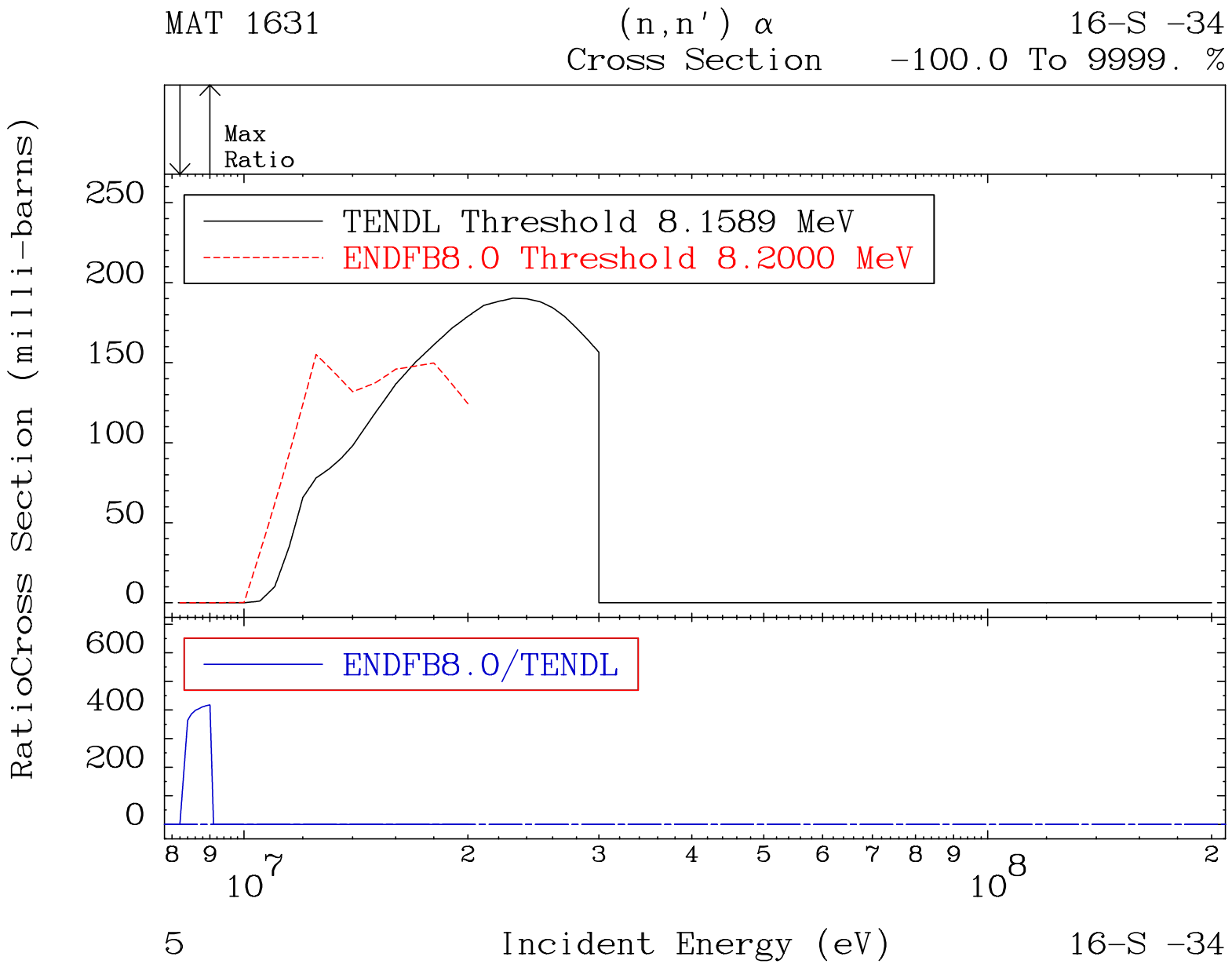
Press Mouse Button to Start

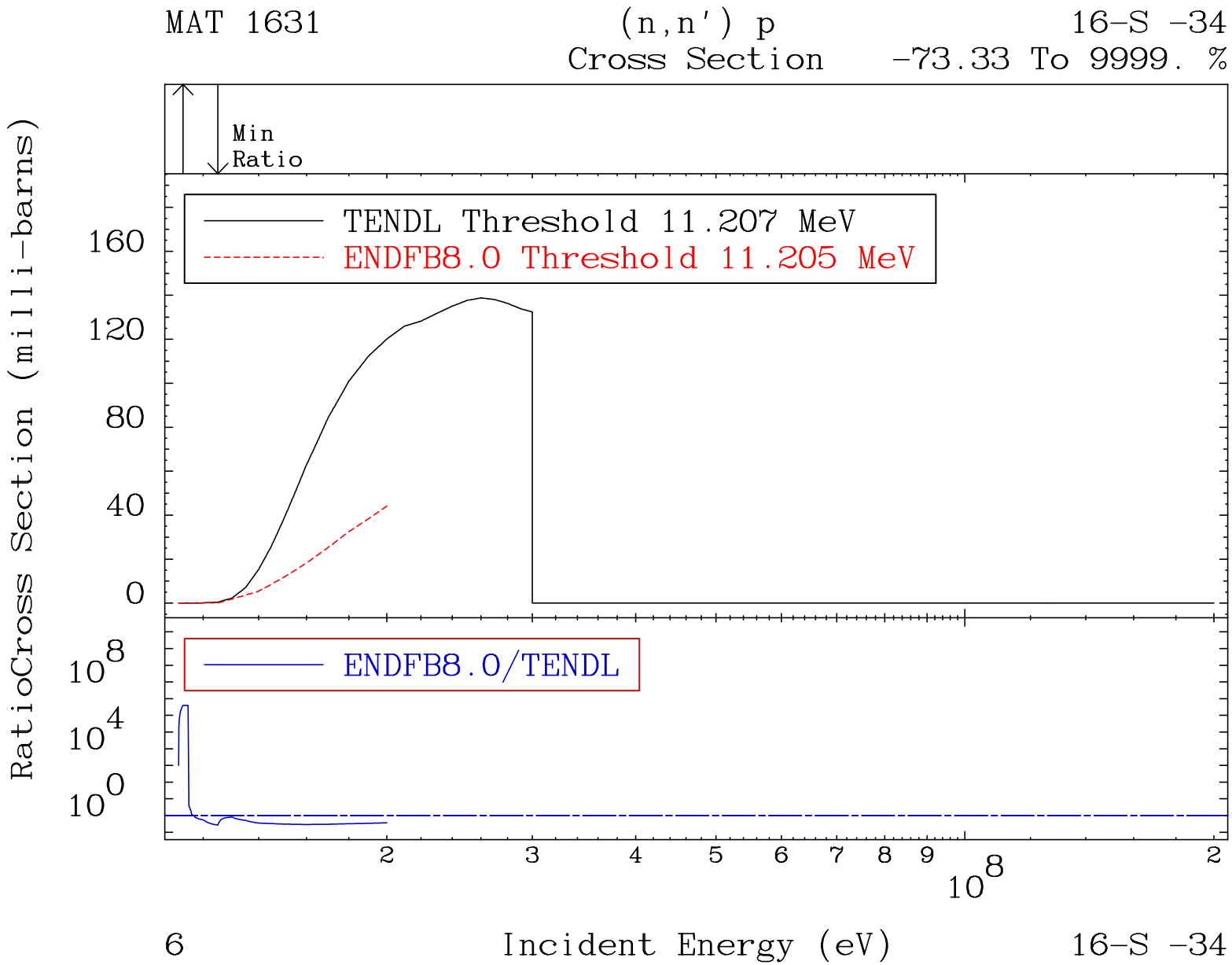

MAT 1631
Total
Cross Section
16-S -34
-97.12 To 3027. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
16-S -34

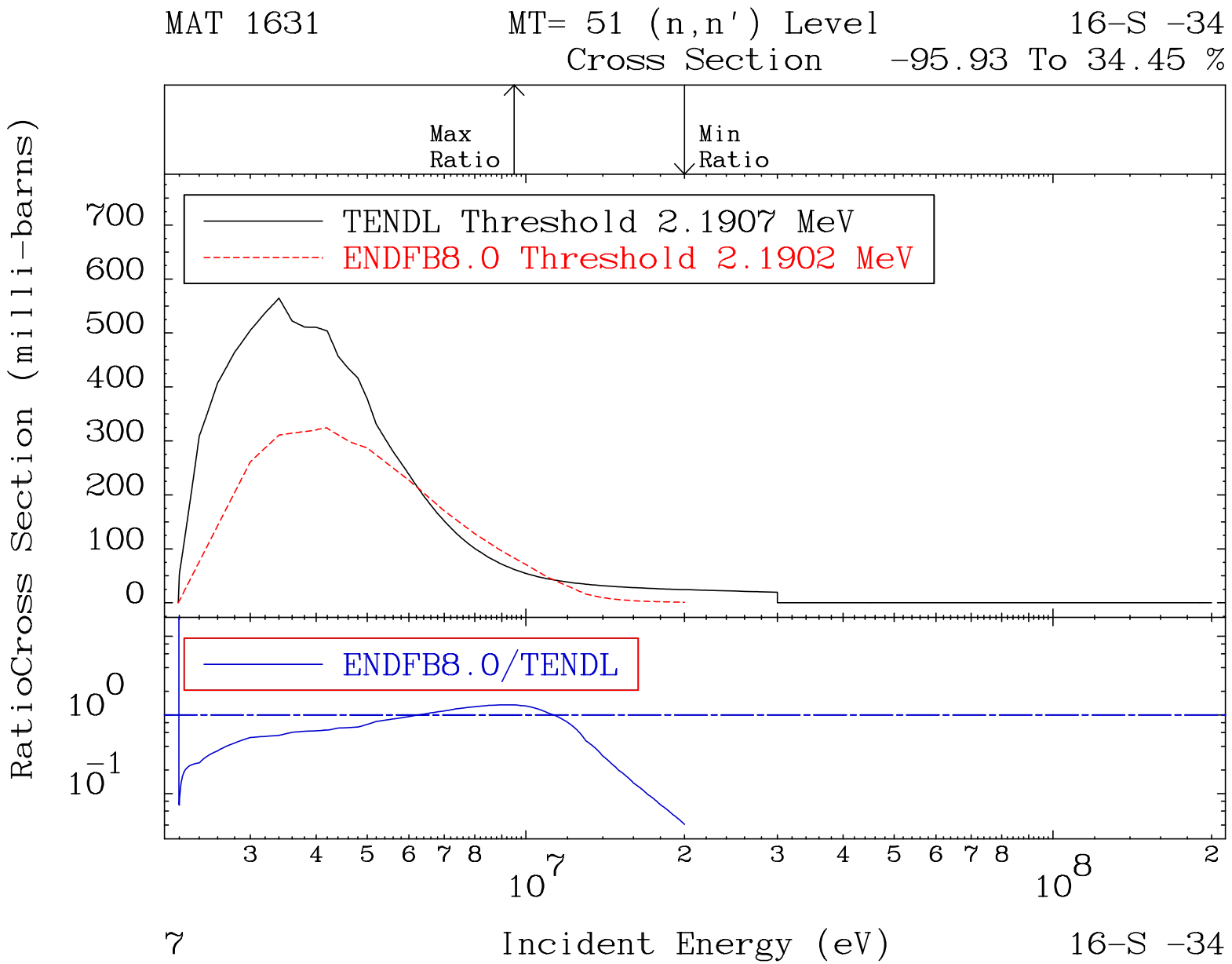

MAT 1631
Elastic
Cross Section
16-S -34
-97.17 To 3253. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
2
16-S -34

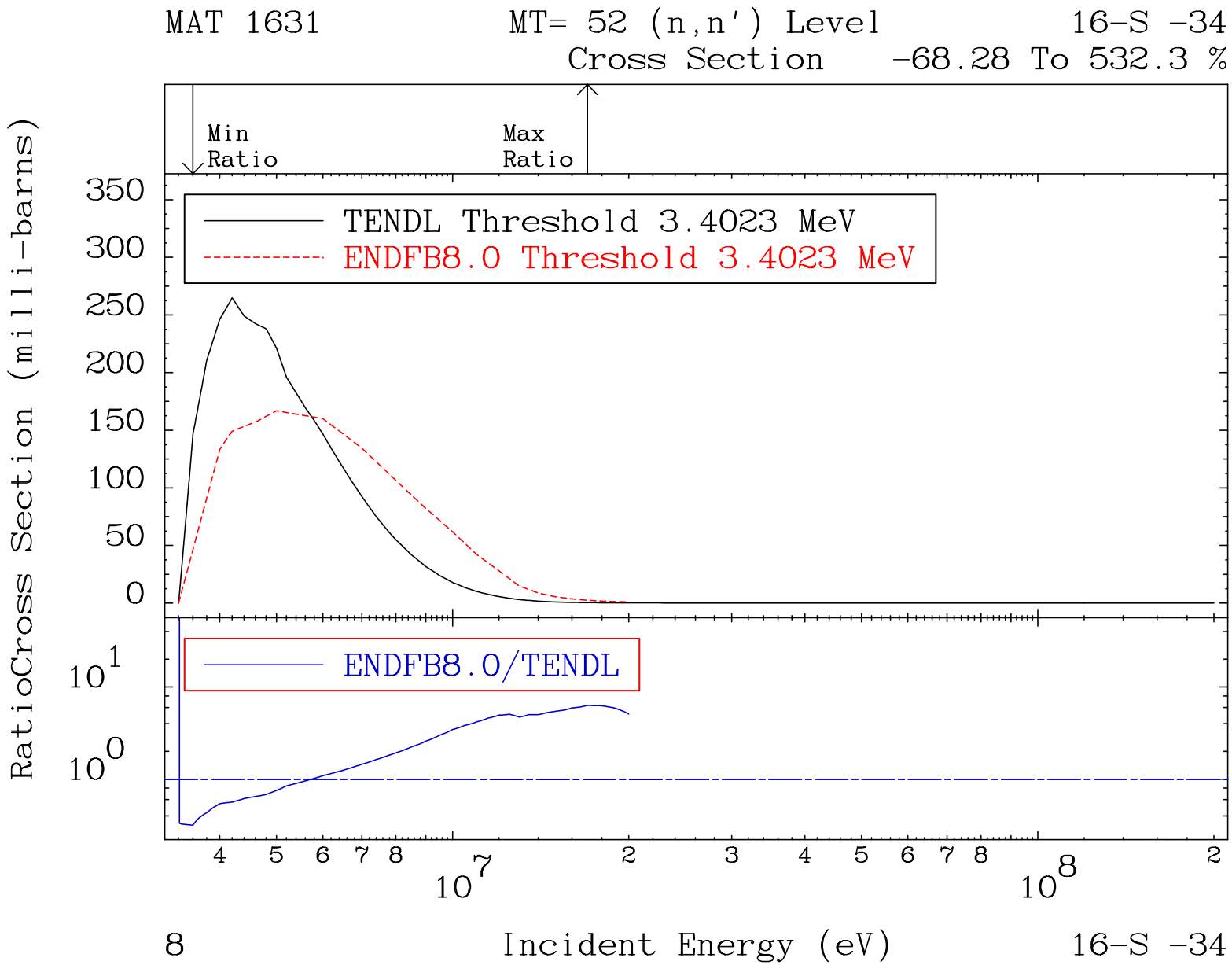

MAT 1631
Inelastic
Cross Section
16-S -34
-92.88 To 53.33 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1907 MeV
ENDFB8.0 Threshold 2.1902 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-1
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
16-S -34

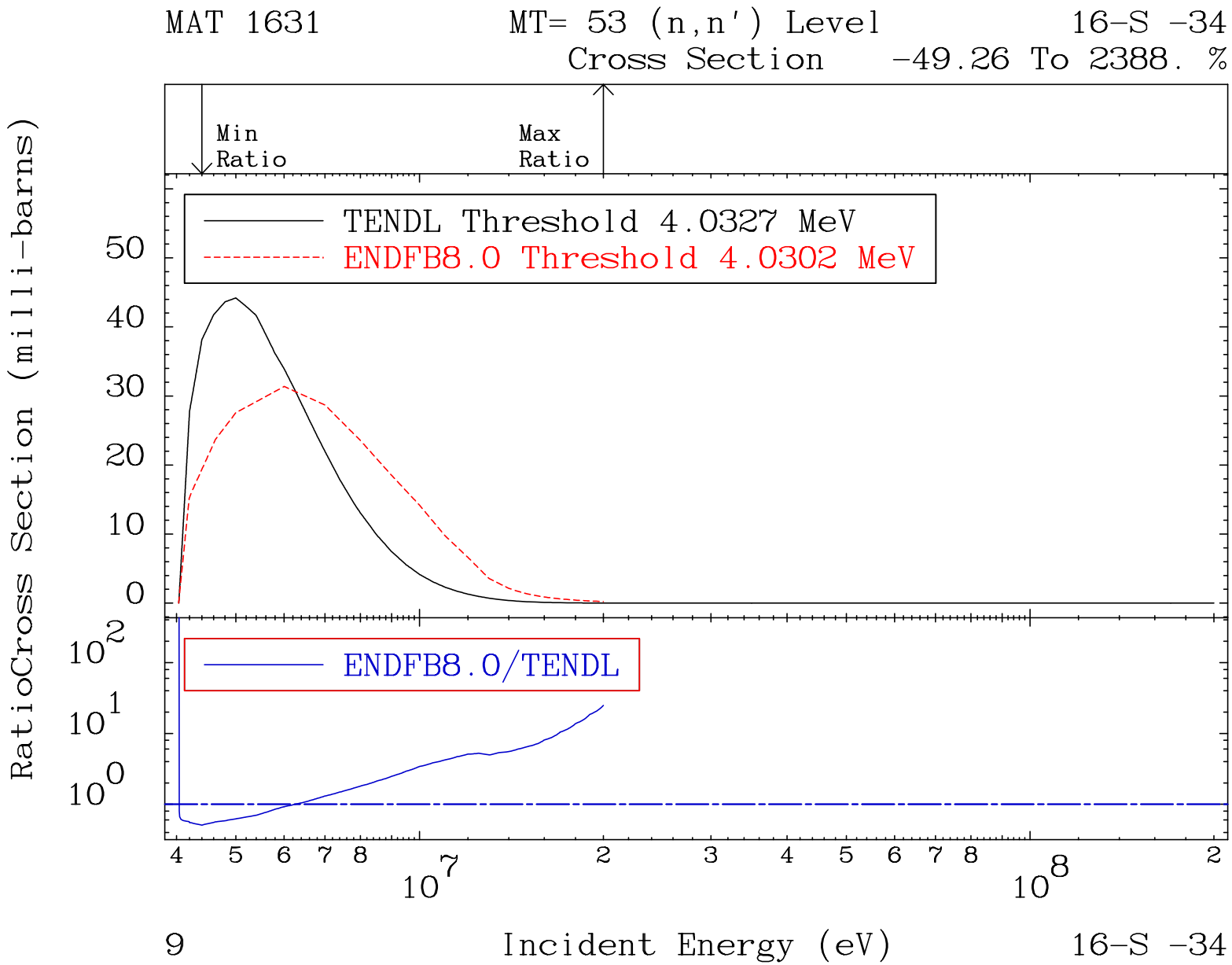

MAT 1631
(n,2n)
Cross Section
16-S -34
-35.36 To 304.1 %
Max Ratio
Min Ratio
TENDL Threshold 11.756 MeV
ENDFB8.0 Threshold 11.754 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
4
2
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
16-S -34

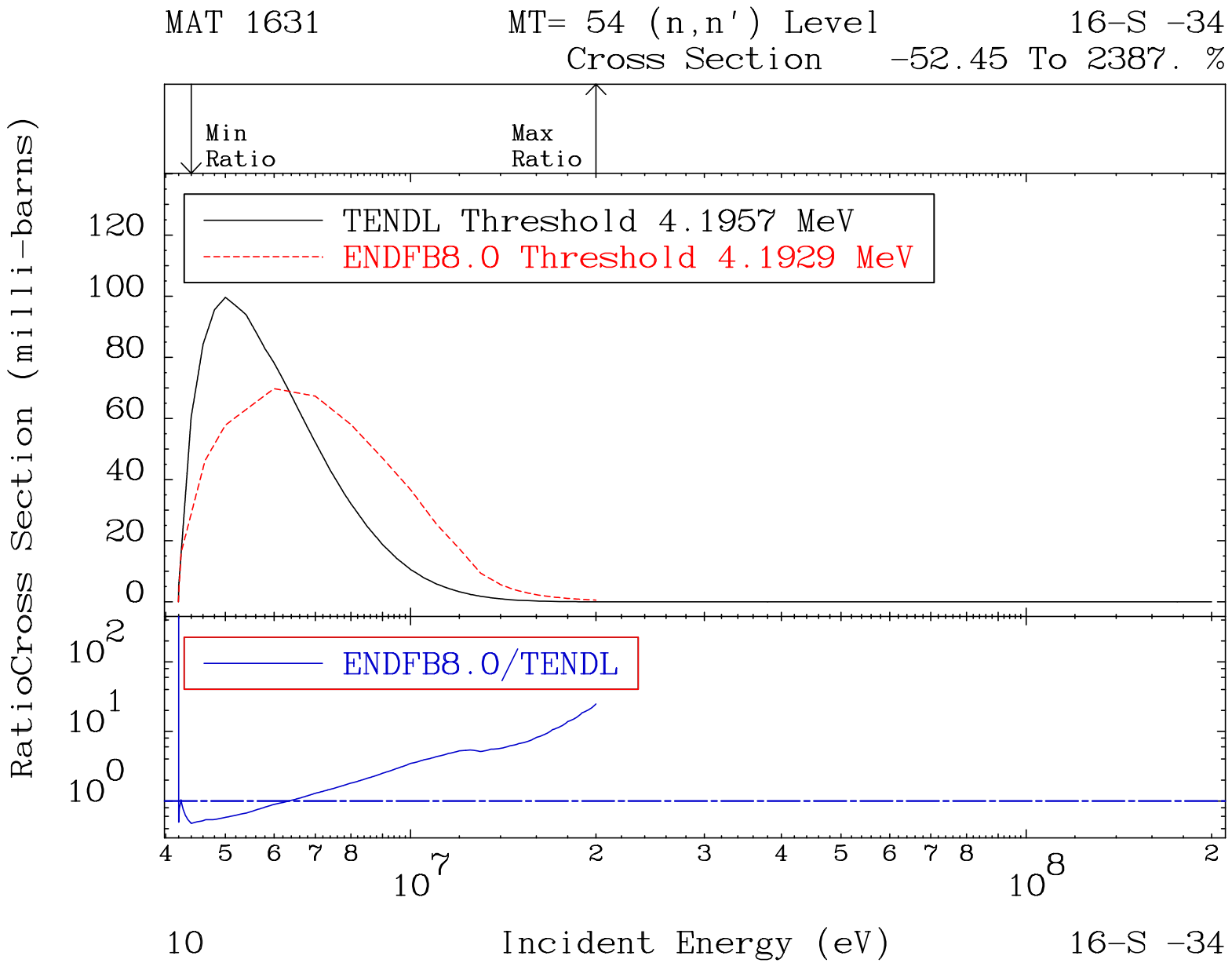

MAT 1631
(n,n') α
Cross Section
16-S -34
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 8.1589 MeV
ENDFB8.0 Threshold 8.2000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
600
400
200
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
5
16-S -34

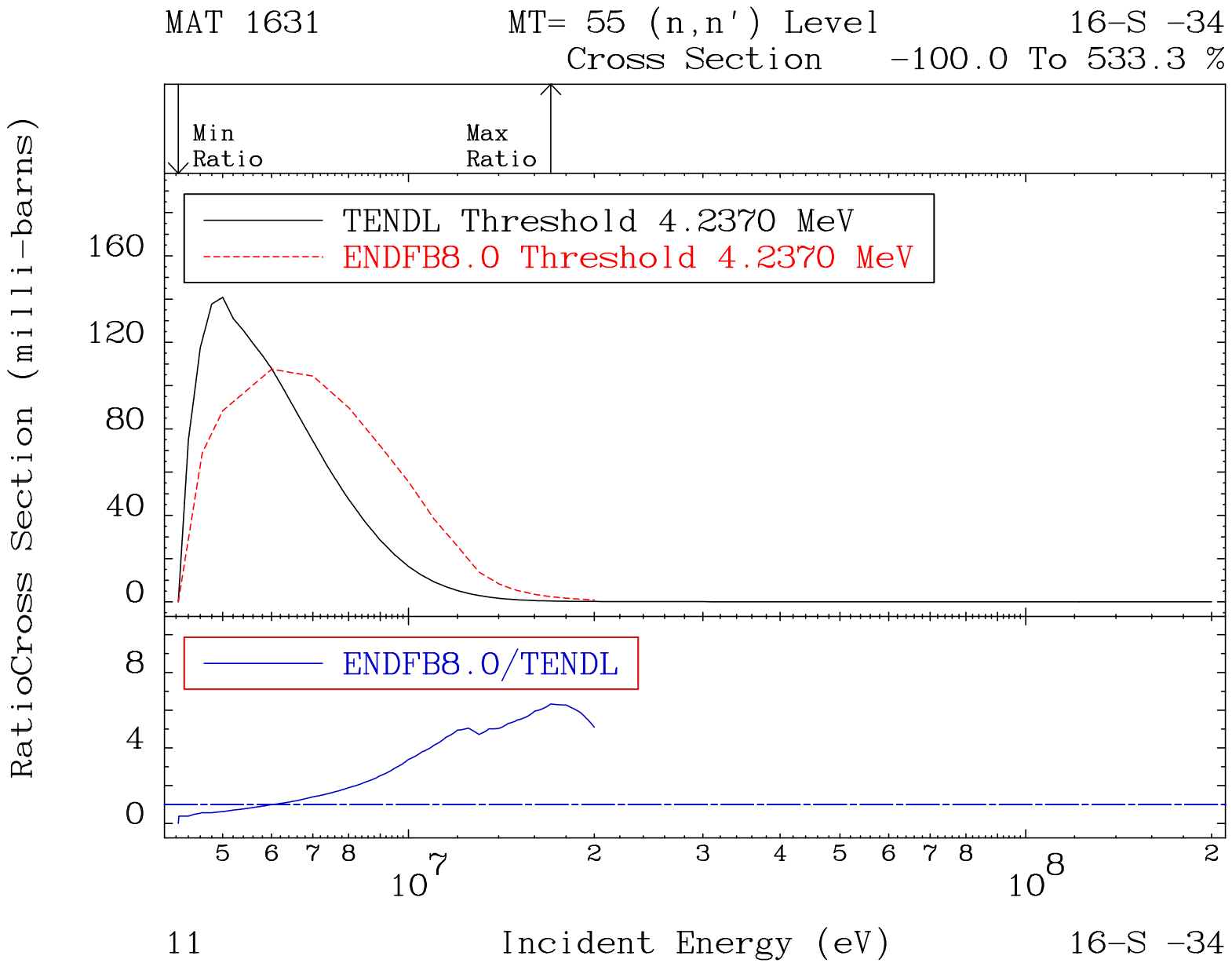

MAT 1631
(n,n') p
Cross Section
16-S -34
-73.33 To 9999. %
Min
Ratio
TENDL Threshold 11.207 MeV
ENDFB8.0 Threshold 11.205 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^8
10^4
10^0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
16-S -34

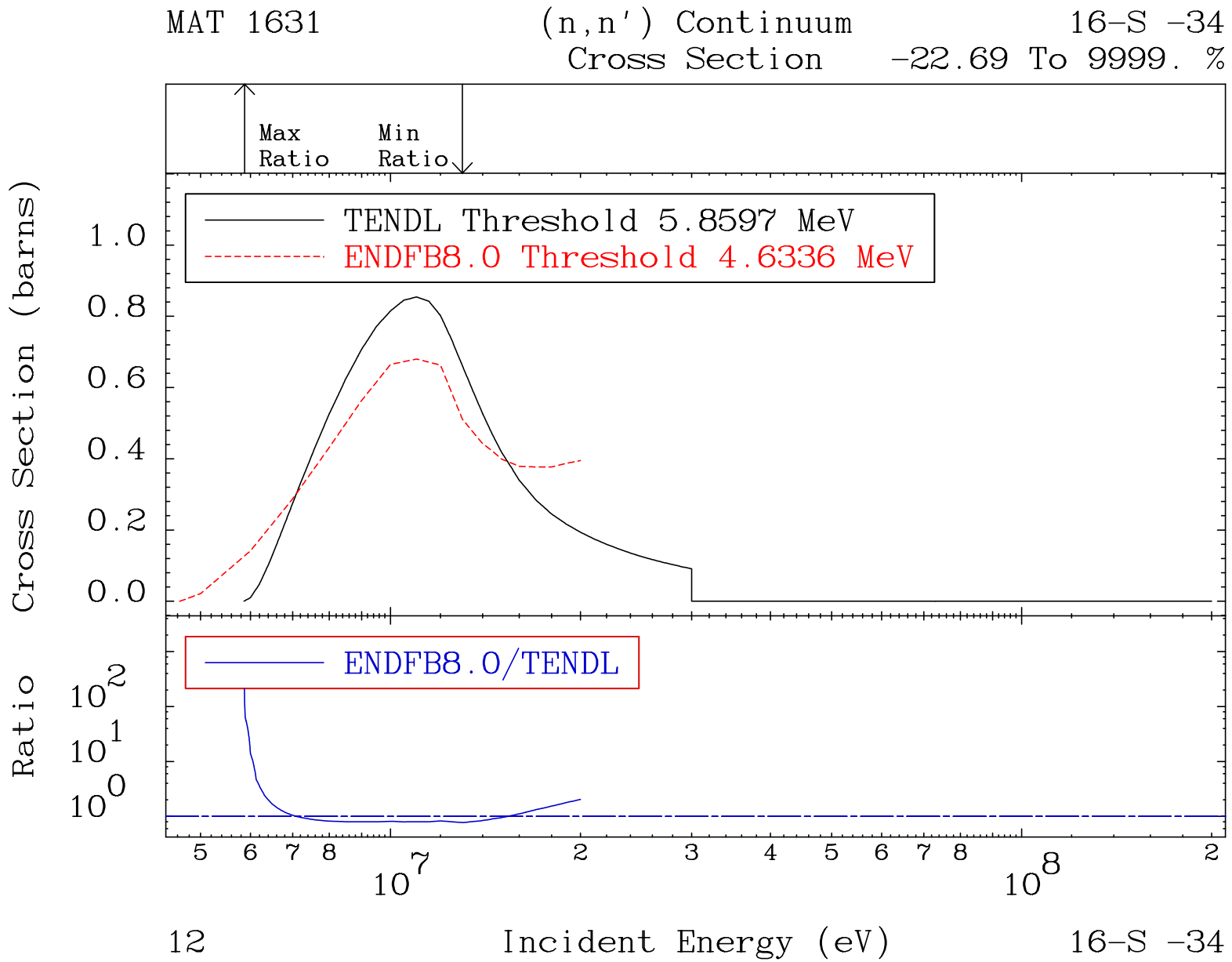

MAT 1631
MT= 51 (n,n') Level
16-S -34
Cross Section -95.93 To 34.45 %
Max Ratio
Min Ratio
TENDL Threshold 2.1907 MeV
ENDFB8.0 Threshold 2.1902 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
10^0
10^{-1}
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
16-S -34

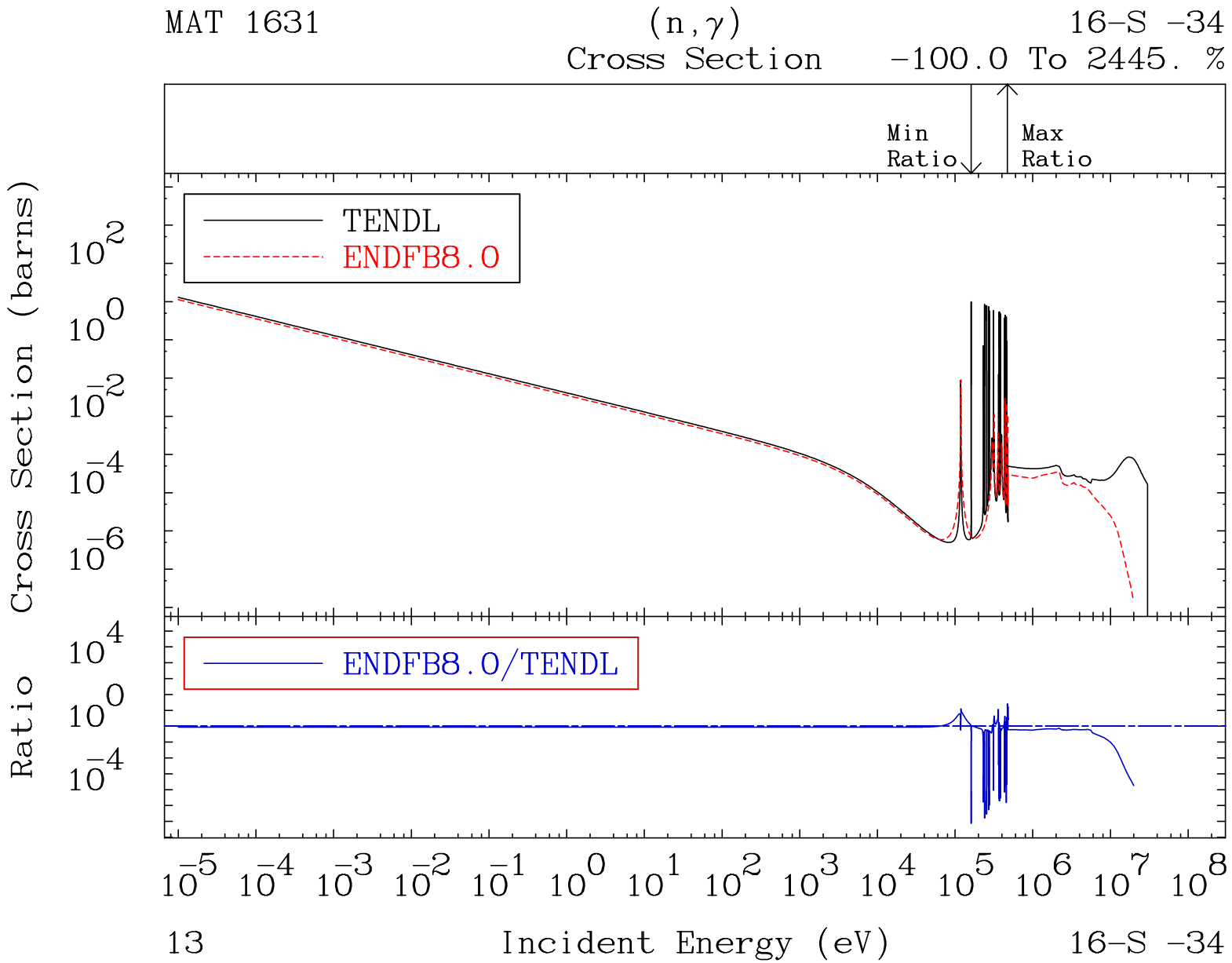

MAT 1631
MT= 52 (n,n') Level
16-S -34
Cross Section -68.28 To 532.3 %
Min Ratio
Max Ratio
TENDL Threshold 3.4023 MeV
ENDFB8.0 Threshold 3.4023 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
10^1
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
16-S -34

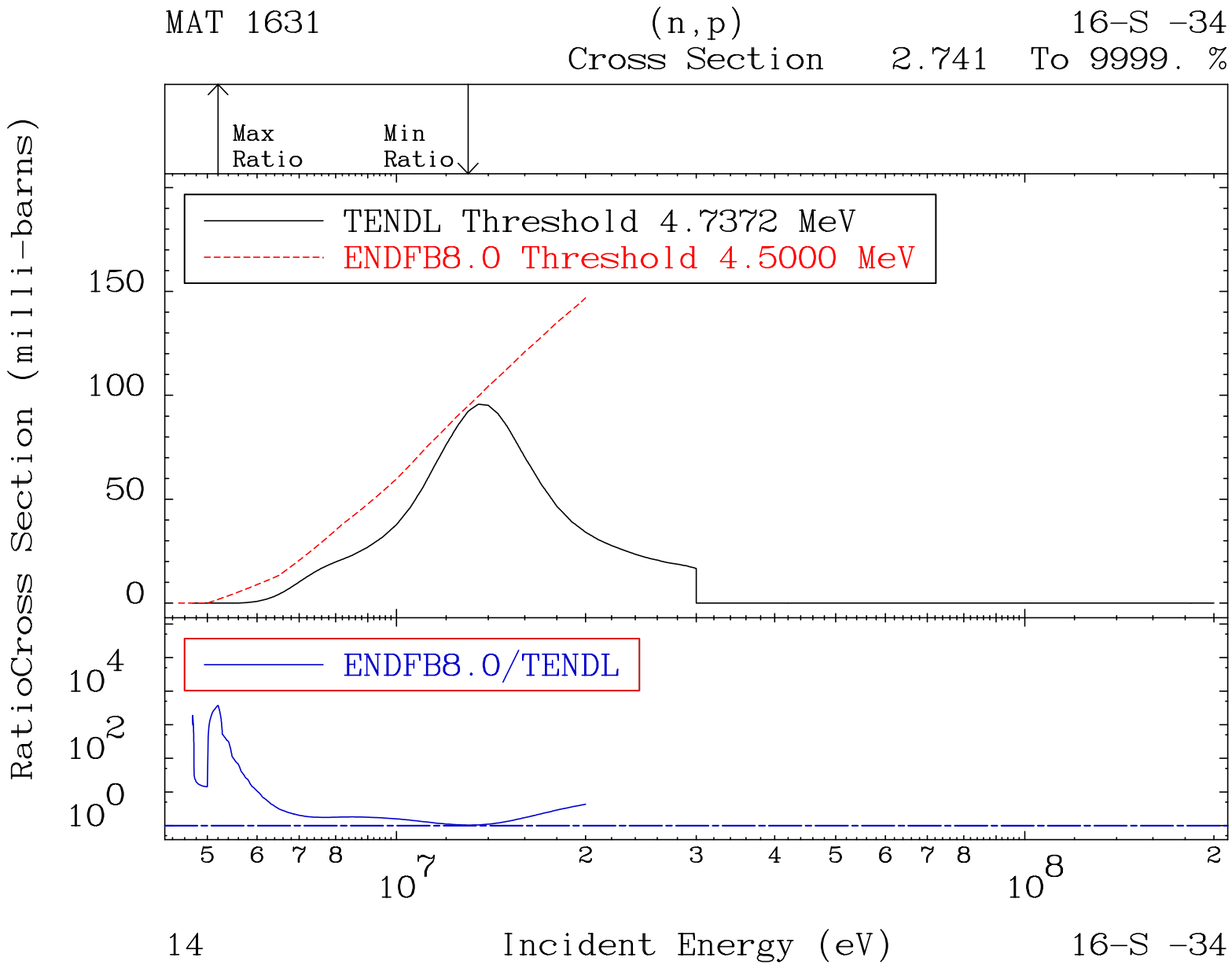

MAT 1631
MT= 53 (n,n') Level
16-S -34
Cross Section -49.26 To 2388. %
Min Ratio
Max Ratio
TENDL Threshold 4.0327 MeV
ENDFB8.0 Threshold 4.0302 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
16-S -34

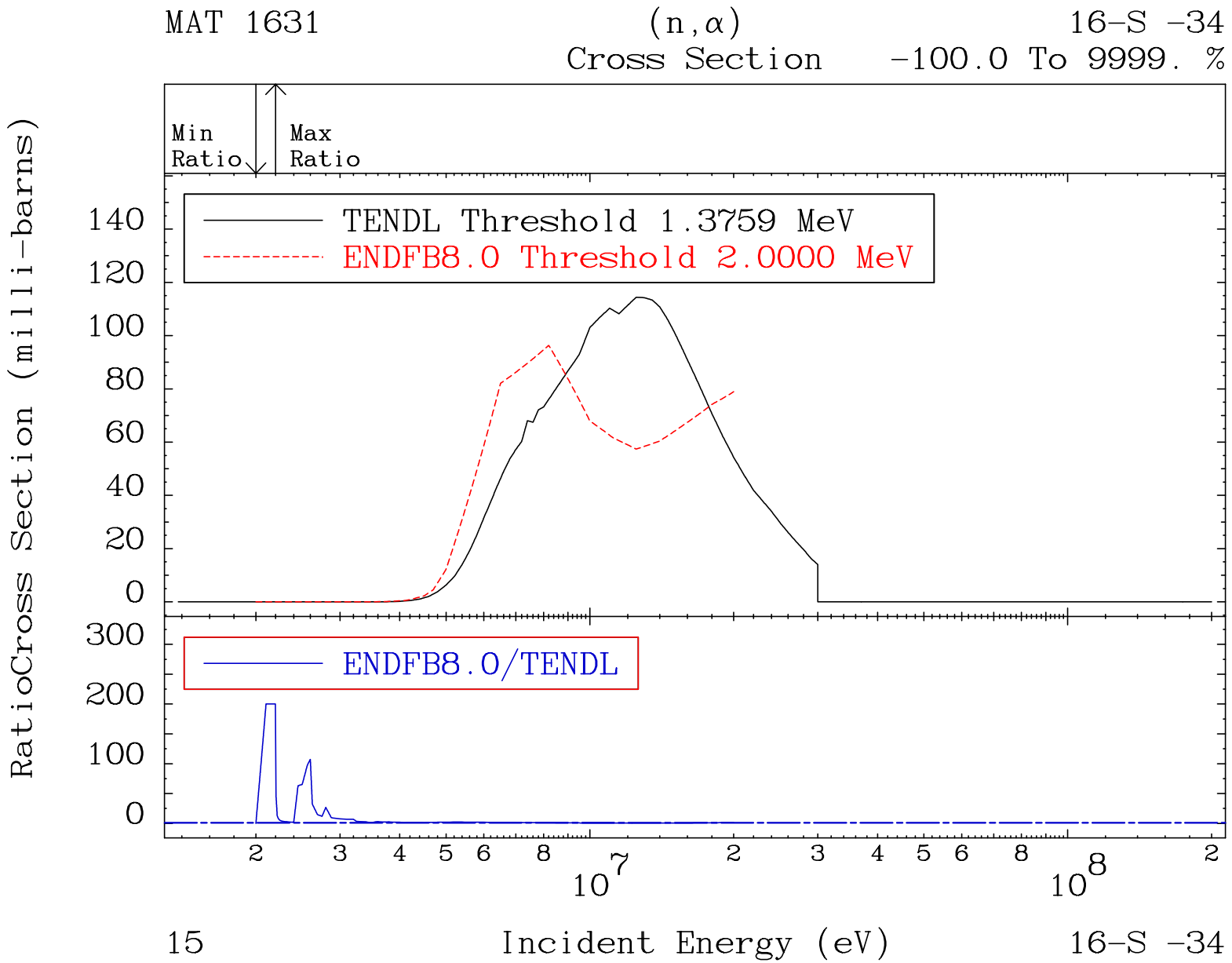

MAT 1631
MT= 54 (n,n') Level
16-S -34
Cross Section -52.45 To 2387. %
Min Ratio
Max Ratio
TENDL Threshold 4.1957 MeV
ENDFB8.0 Threshold 4.1929 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^2
10^1
10^0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
16-S -34

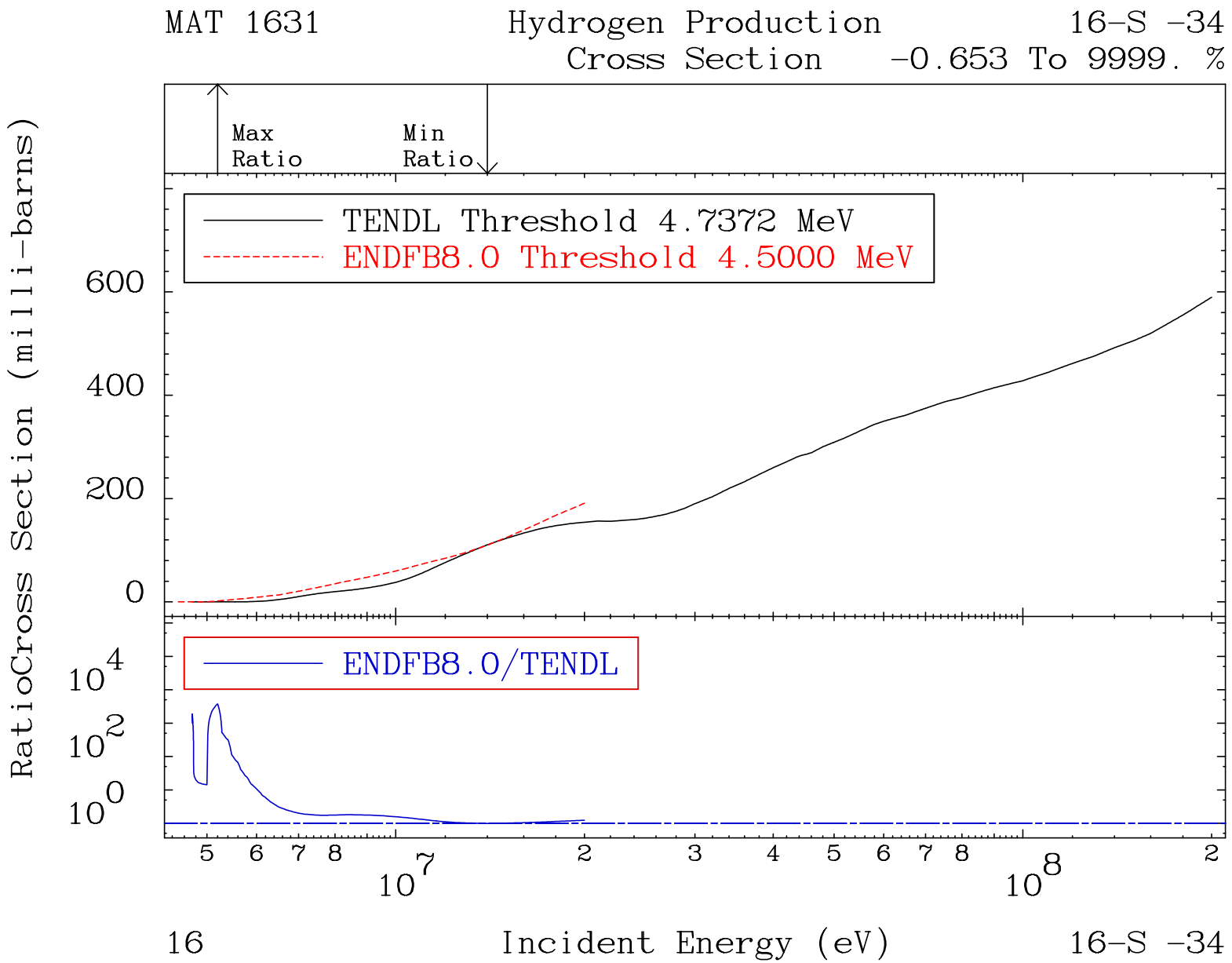

MAT 1631
MT= 55 (n,n') Level
16-S -34
Cross Section -100.0 To 533.3 %
Min Ratio
Max Ratio
TENDL Threshold 4.2370 MeV
ENDFB8.0 Threshold 4.2370 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
16-S -34

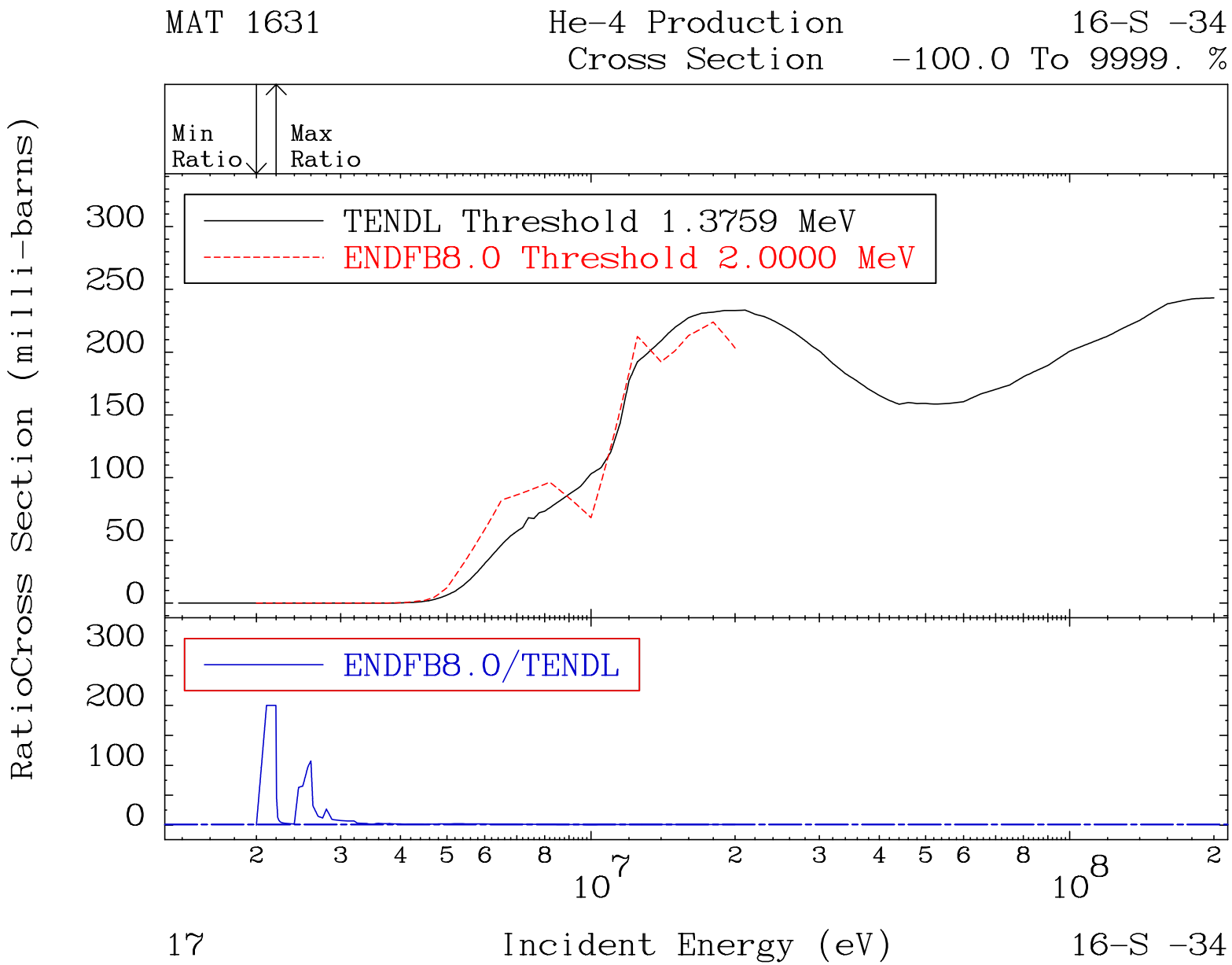

MAT 1631
(n,n') Continuum
Cross Section
16-S -34
-22.69 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.8597 MeV
ENDFB8.0 Threshold 4.6336 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
10^2
10^1
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
16-S -34

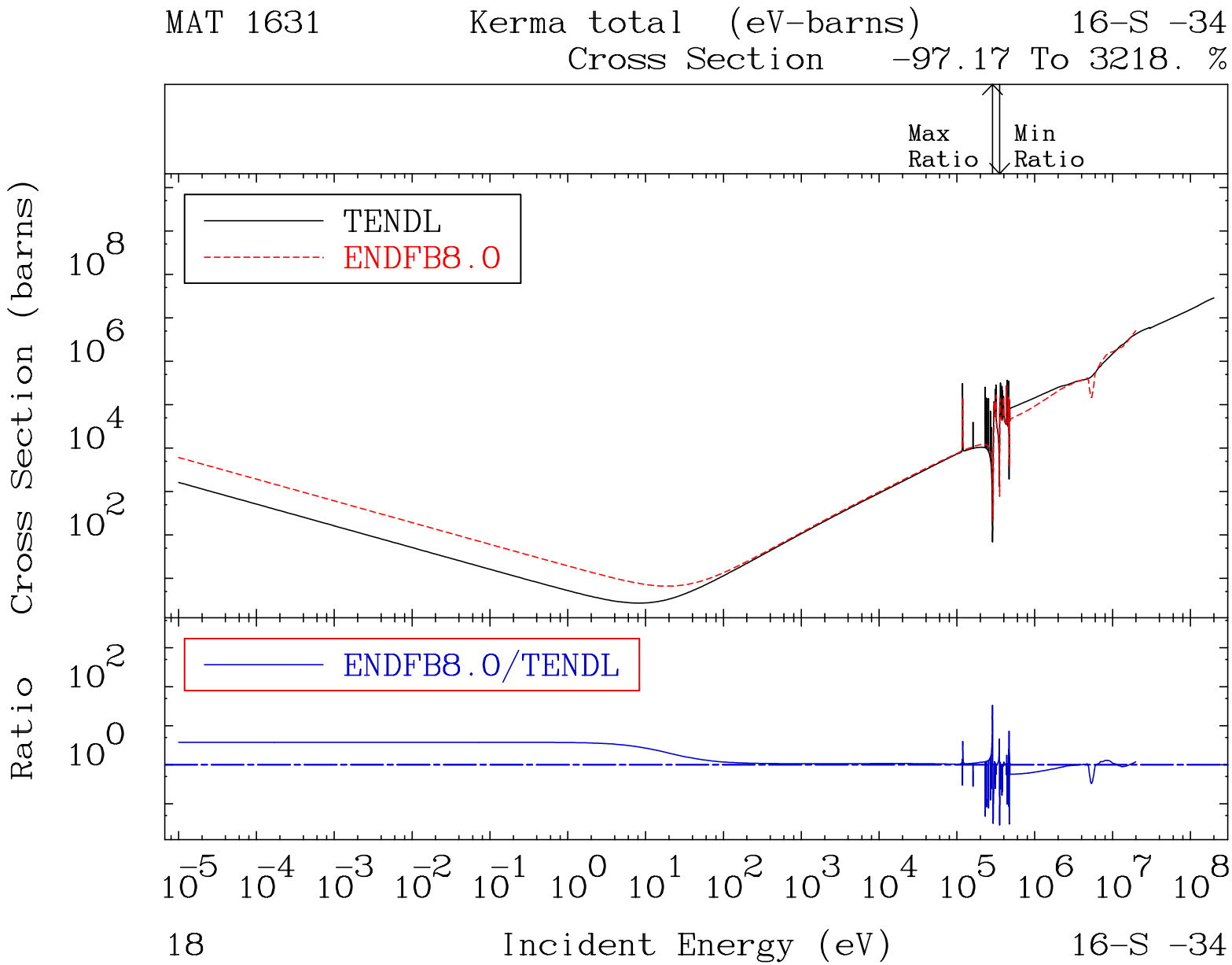

MAT 1631
(n,γ)
Cross Section
16-S -34
-100.0 To 2445. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
13
16-S -34

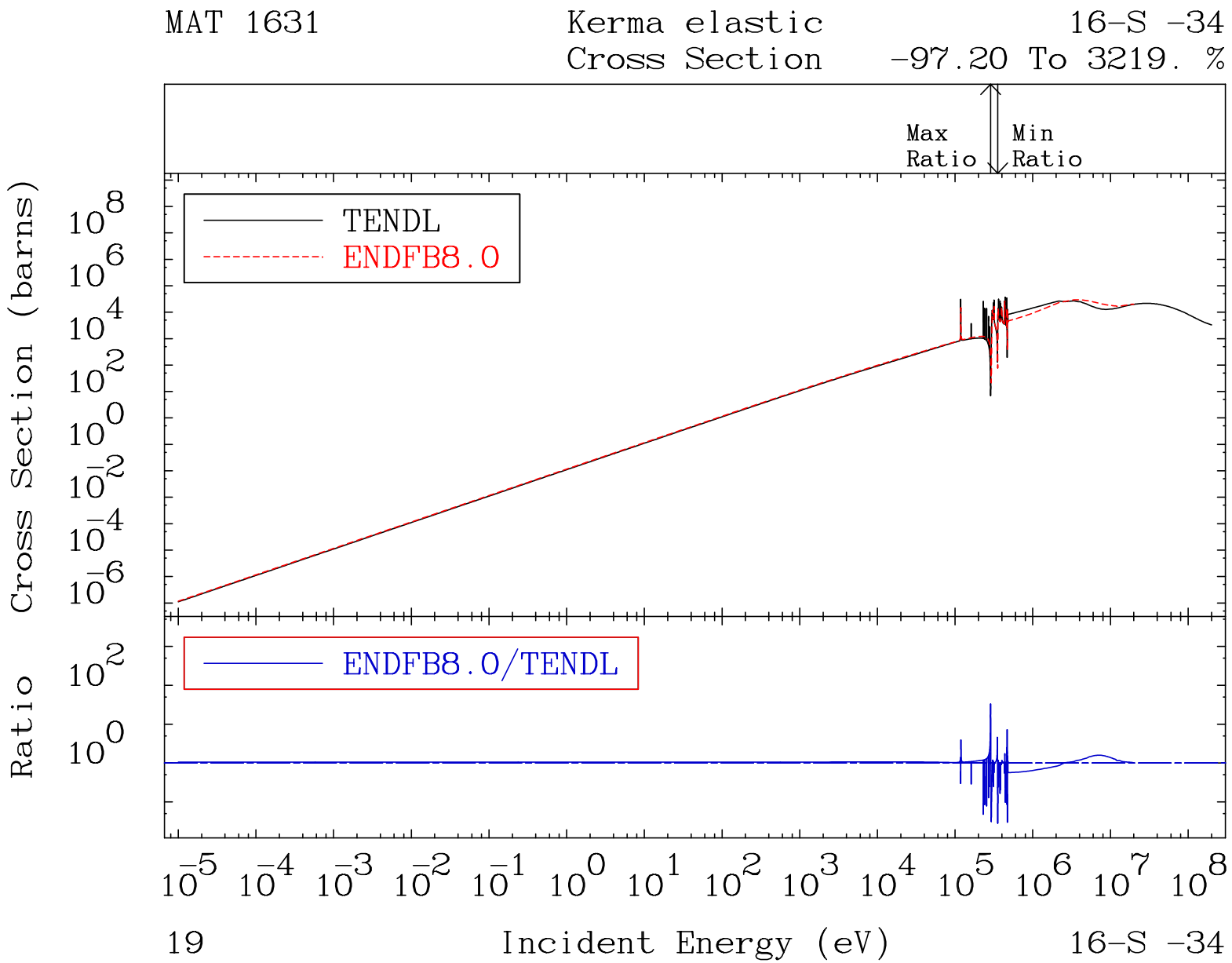

MAT 1631
(n,p)
16-S -34
Cross Section 2.741 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7372 MeV
ENDFB8.0 Threshold 4.5000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
10^4
10^2
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
16-S -34

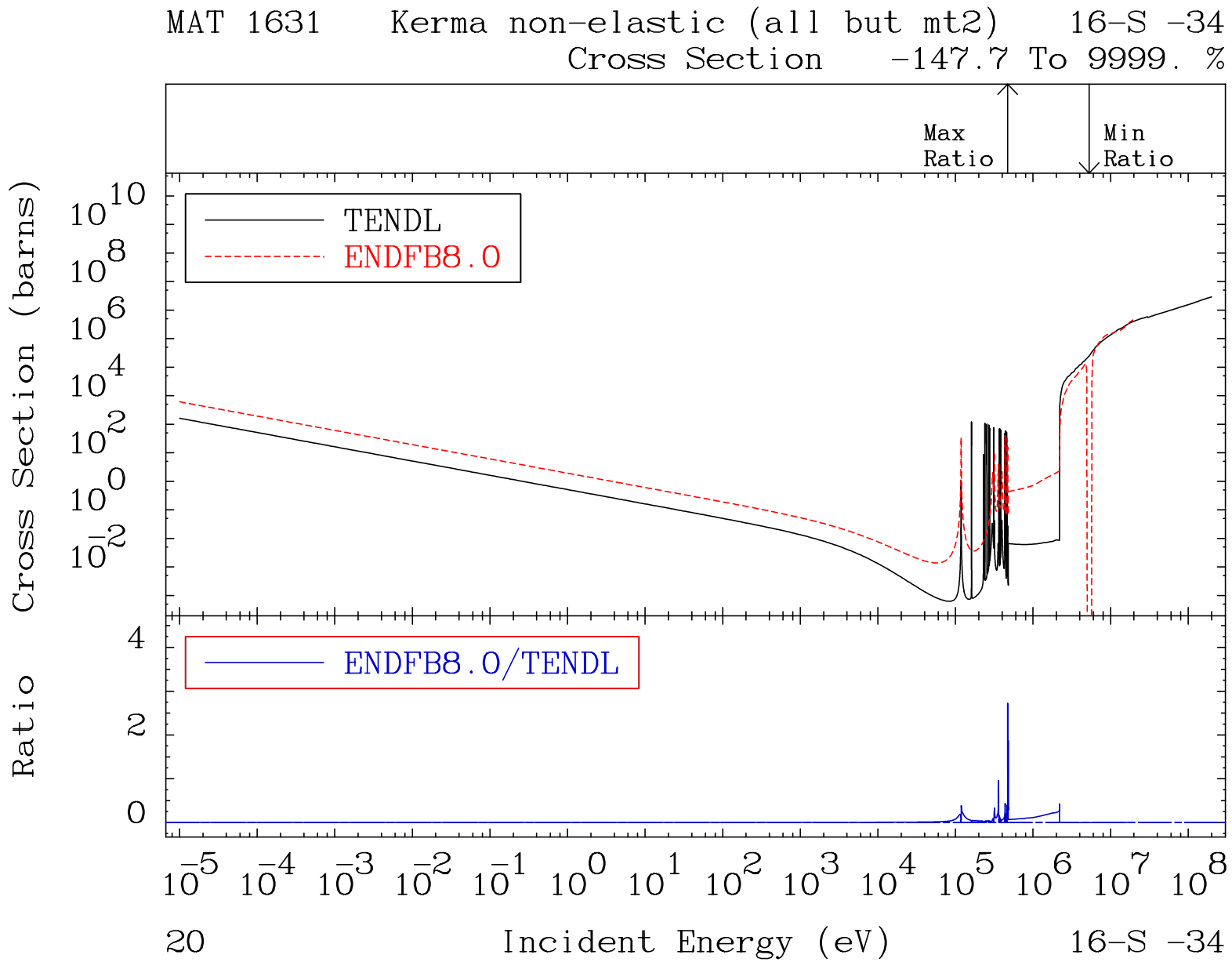

MAT 1631
(n,α)
16-S -34
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3759 MeV
ENDFB8.0 Threshold 2.0000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
300
200
100
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
16-S -34

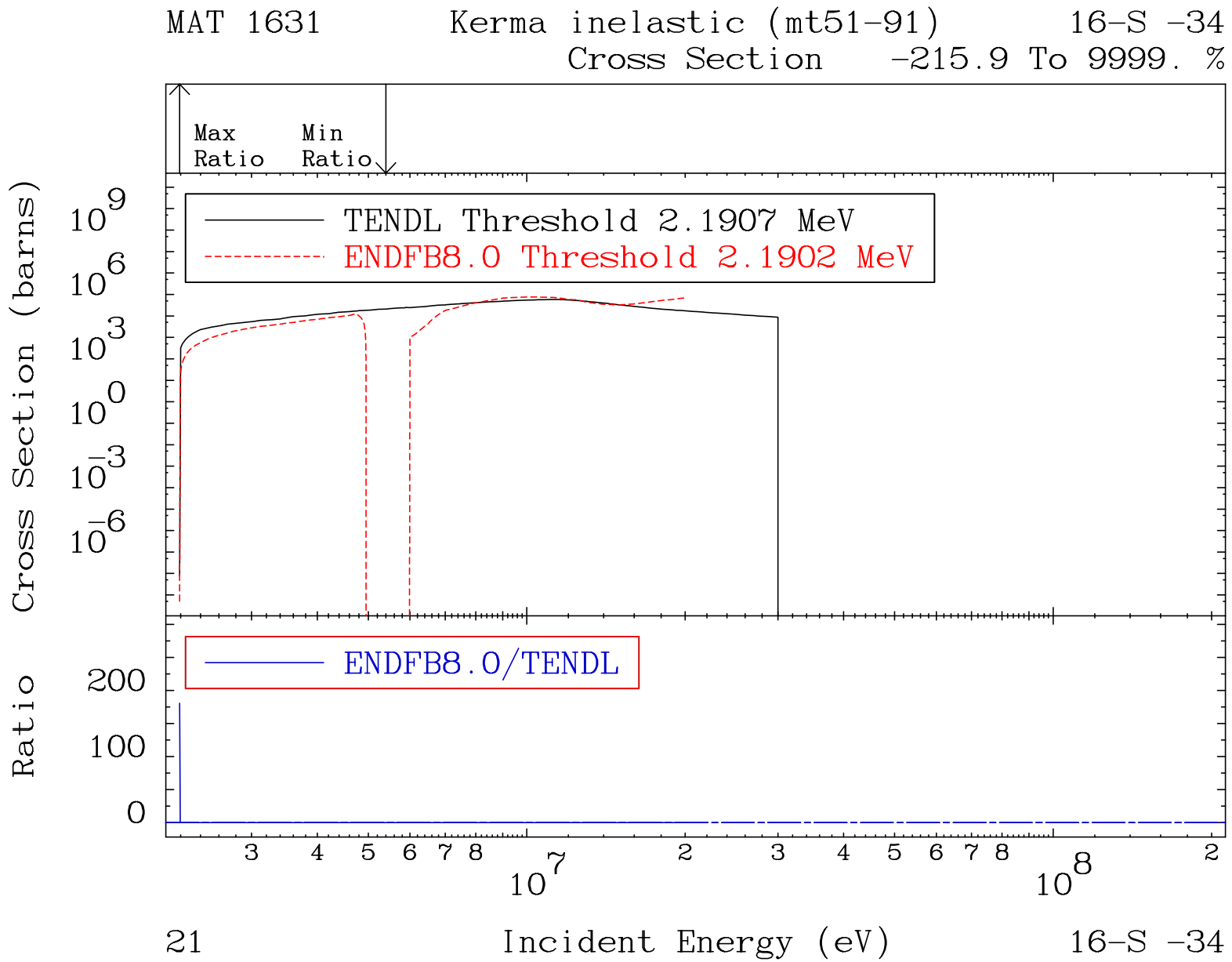

MAT 1631
Hydrogen Production
16-S -34
Cross Section
-0.653 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.7372 MeV
ENDFB8.0 Threshold 4.5000 MeV
600
400
200
0
ENDFB8.0/TENDL
10^4
10^2
10^0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
16
Incident Energy (eV)
16-S -34

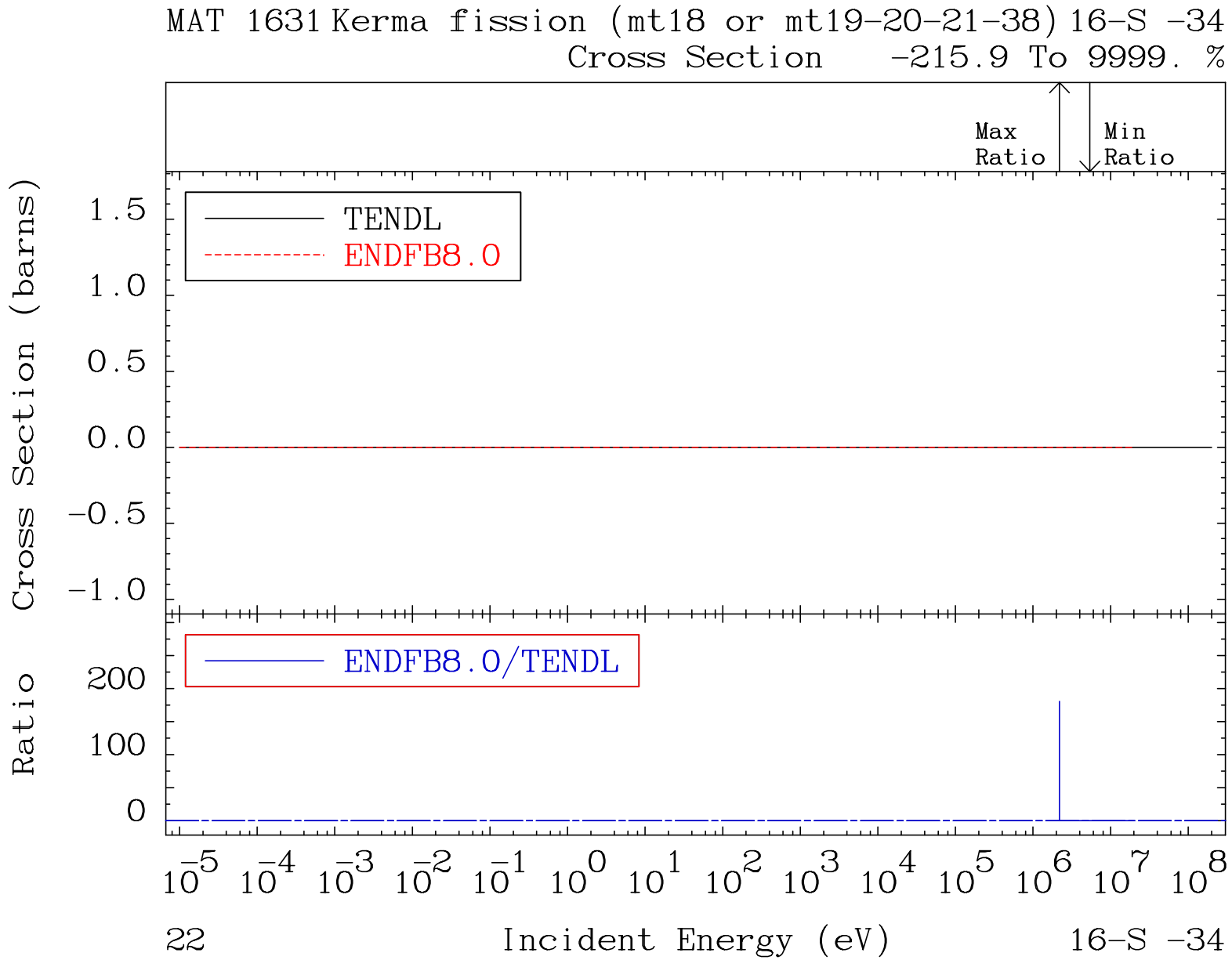

MAT 1631
He-4 Production
Cross Section
16-S -34
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.3759 MeV
ENDFB8.0 Threshold 2.0000 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
17
Incident Energy (eV)
16-S -34

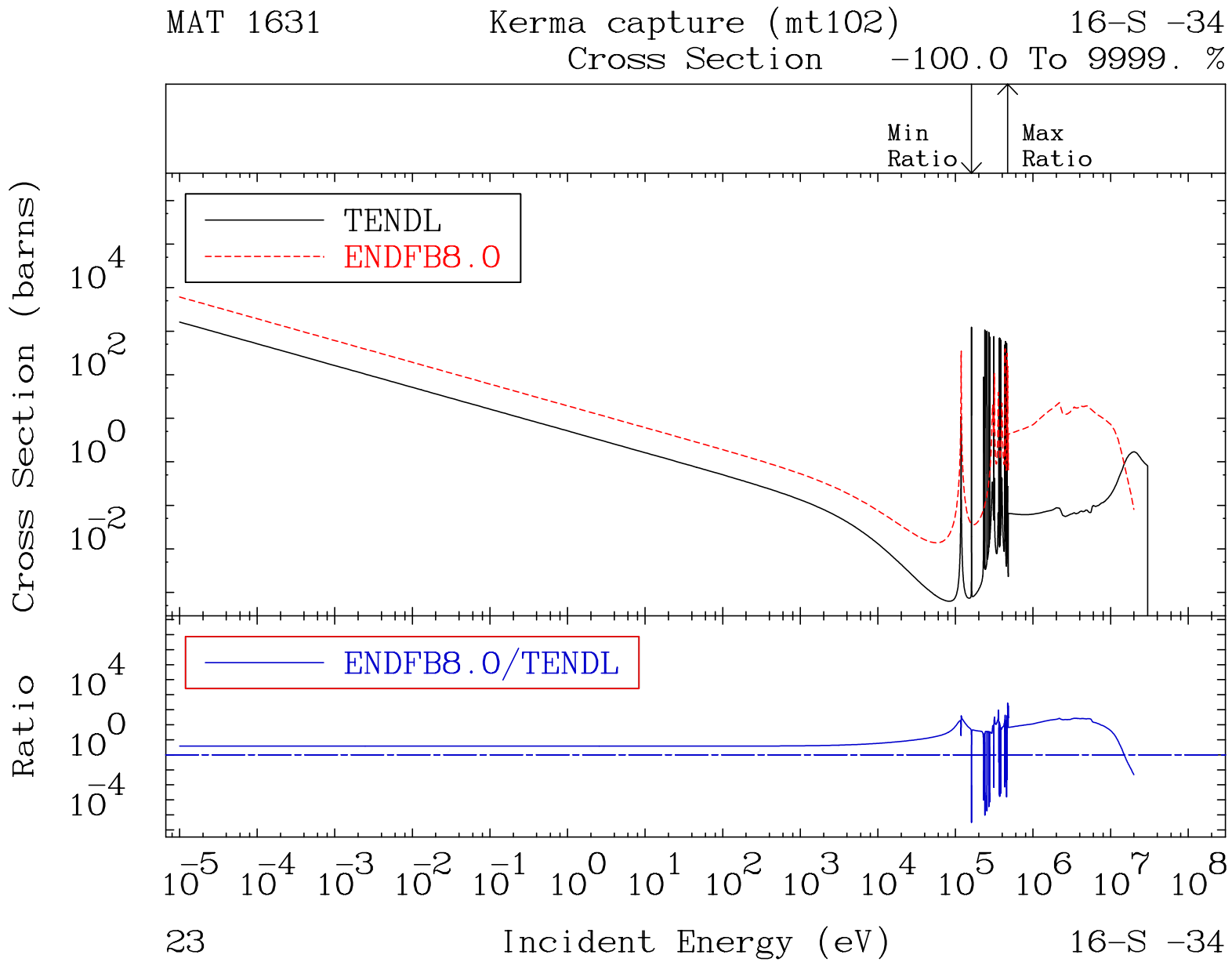

MAT 1631
Kerma total (eV-barns)
16-S -34
Cross Section -97.17 To 3218. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
18
16-S -34

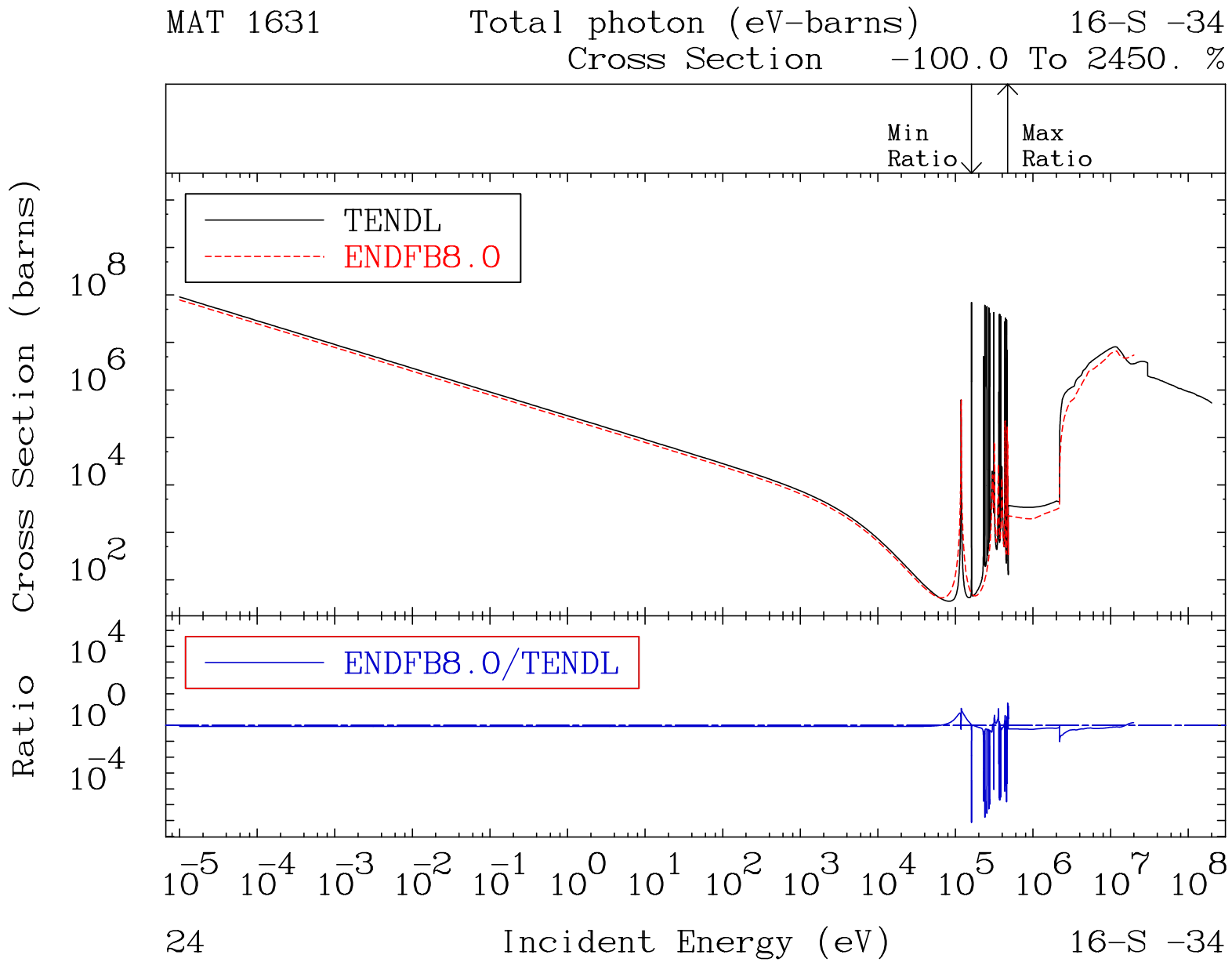

MAT 1631
Kerma elastic
Cross Section
16-S -34
-97.20 To 3219. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
19
16-S -34

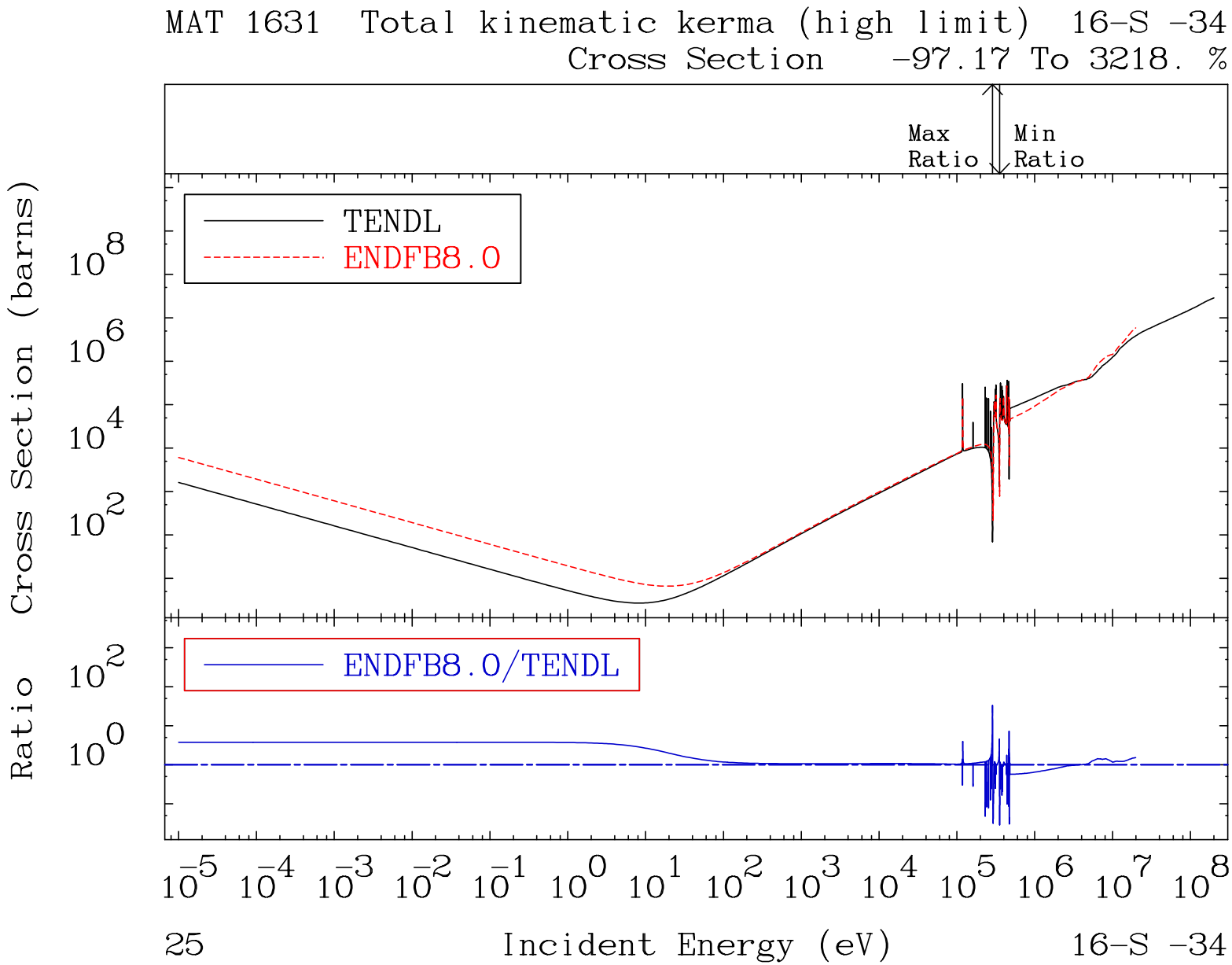

MAT 1631 Kerma non-elastic (all but mt2) 16-S -34
Cross Section -147.7 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
20
16-S -34

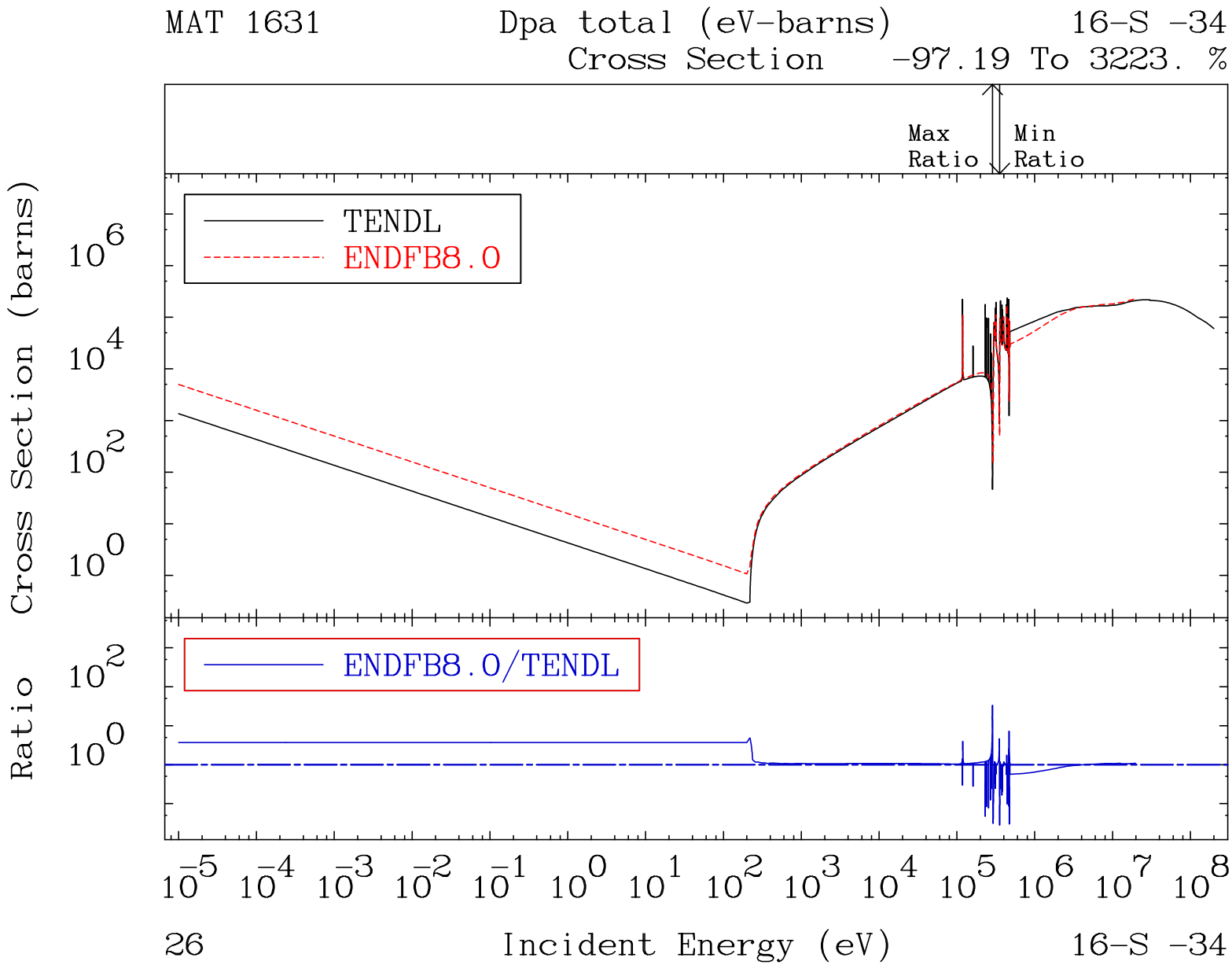

MAT 1631
Kerma inelastic (mt51-91)
16-S -34
Cross Section -215.9 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.1907 MeV
ENDFB8.0 Threshold 2.1902 MeV
Cross Section (barns)
10^9
10^6
10^3
10^0
10^-3
10^-6
ENDFB8.0/TENDL
Ratio
200
100
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
16-S -34

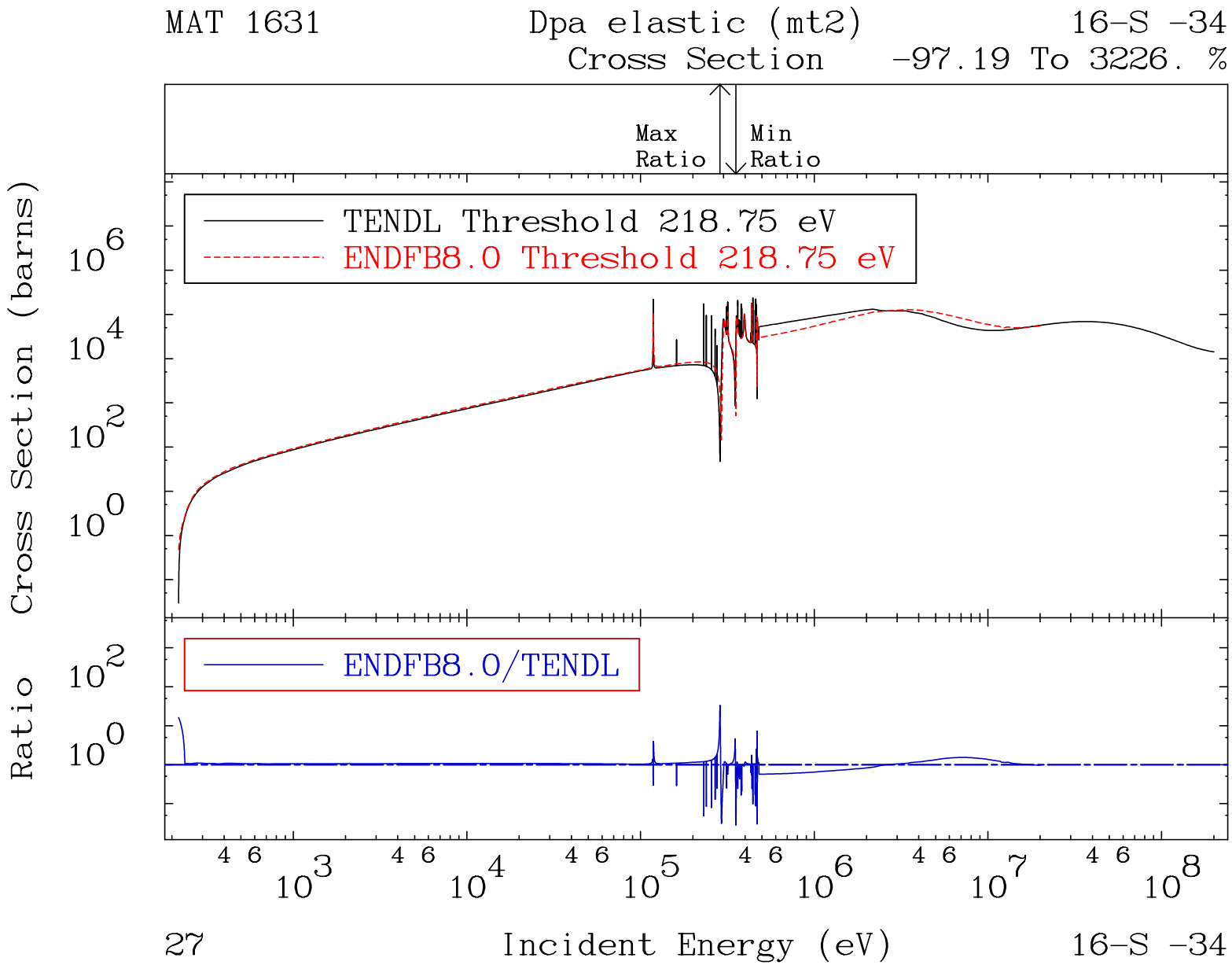

MAT 1631 Kerma fission (mt18 or mt19-20-21-38) 16-S -34
Cross Section -215.9 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
22
Incident Energy (eV)
16-S -34

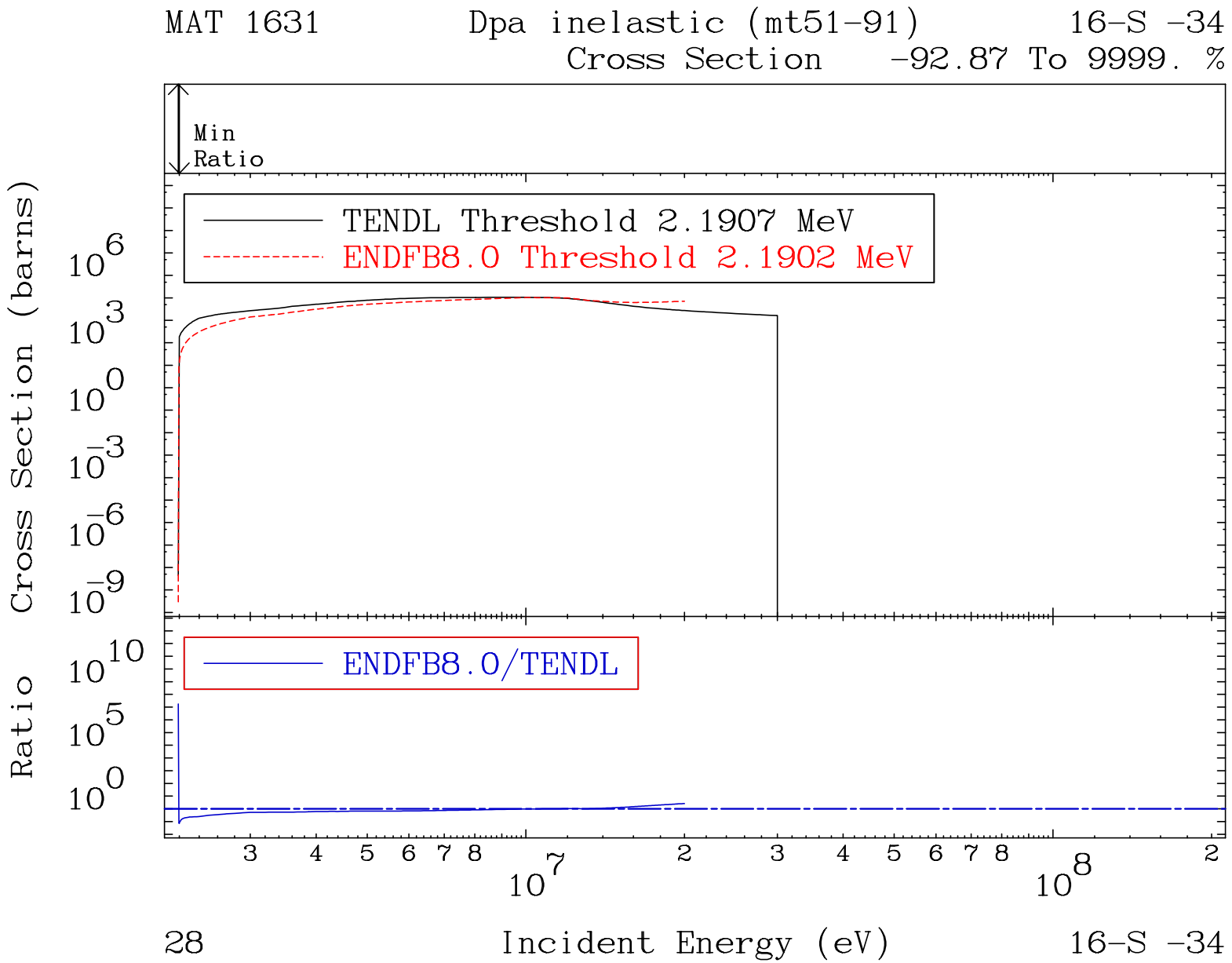

MAT 1631
Kerma capture (mt102)
16-S -34
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
23
16-S -34

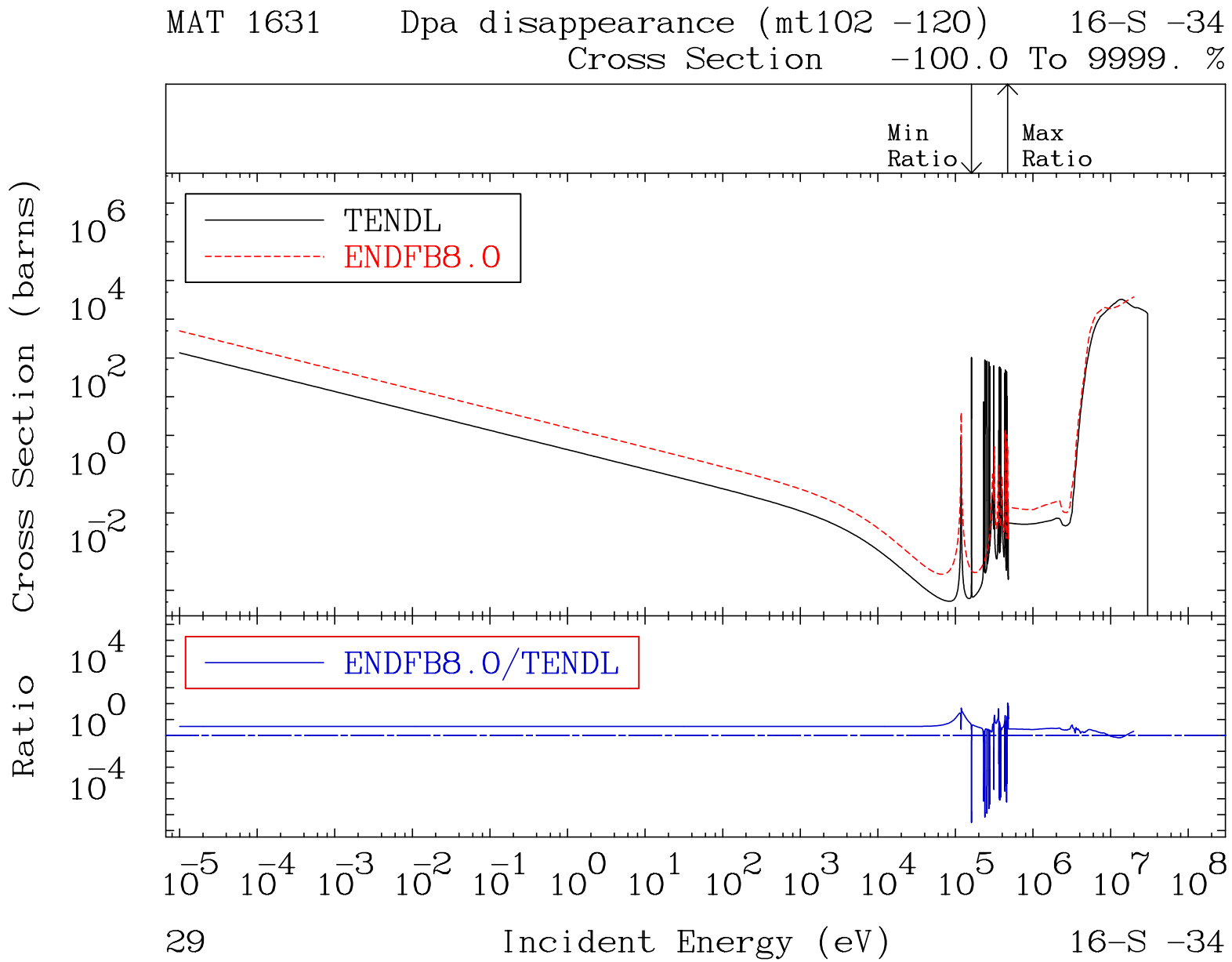

MAT 1631
Total photon (eV-barns)
16-S -34
Cross Section -100.0 To 2450. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
24
16-S -34


MAT 1631 Total kinematic kerma (high limit) 16-S -34
Cross Section -97.17 To 3218. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
10^8
10^6
10^4
10^2
ENDFB8.0/TENDL
Ratio
10^2
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
25
Incident Energy (eV)
16-S -34


MAT 1631
Dpa total (eV-barns)
16-S -34
Cross Section -97.19 To 3223. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
10^6
10^4
10^2
10^0
ENDFB8.0/TENDL
Ratio
10^2
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
26
Incident Energy (eV)
16-S -34


MAT 1631
Dpa elastic (mt2)
Cross Section
16-S -34
-97.19 To 3226. %
Max Ratio
Min Ratio
TENDL Threshold 218.75 eV
ENDFB8.0 Threshold 218.75 eV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
27
16-S -34


MAT 1631
Dpa inelastic (mt51-91)
16-S -34
Cross Section -92.87 To 9999. %
Min
Ratio
TENDL Threshold 2.1907 MeV
ENDFB8.0 Threshold 2.1902 MeV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
16-S -34


MAT 1631 Dpa disappearance (mt102 -120) 16-S -34
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
16-S -34