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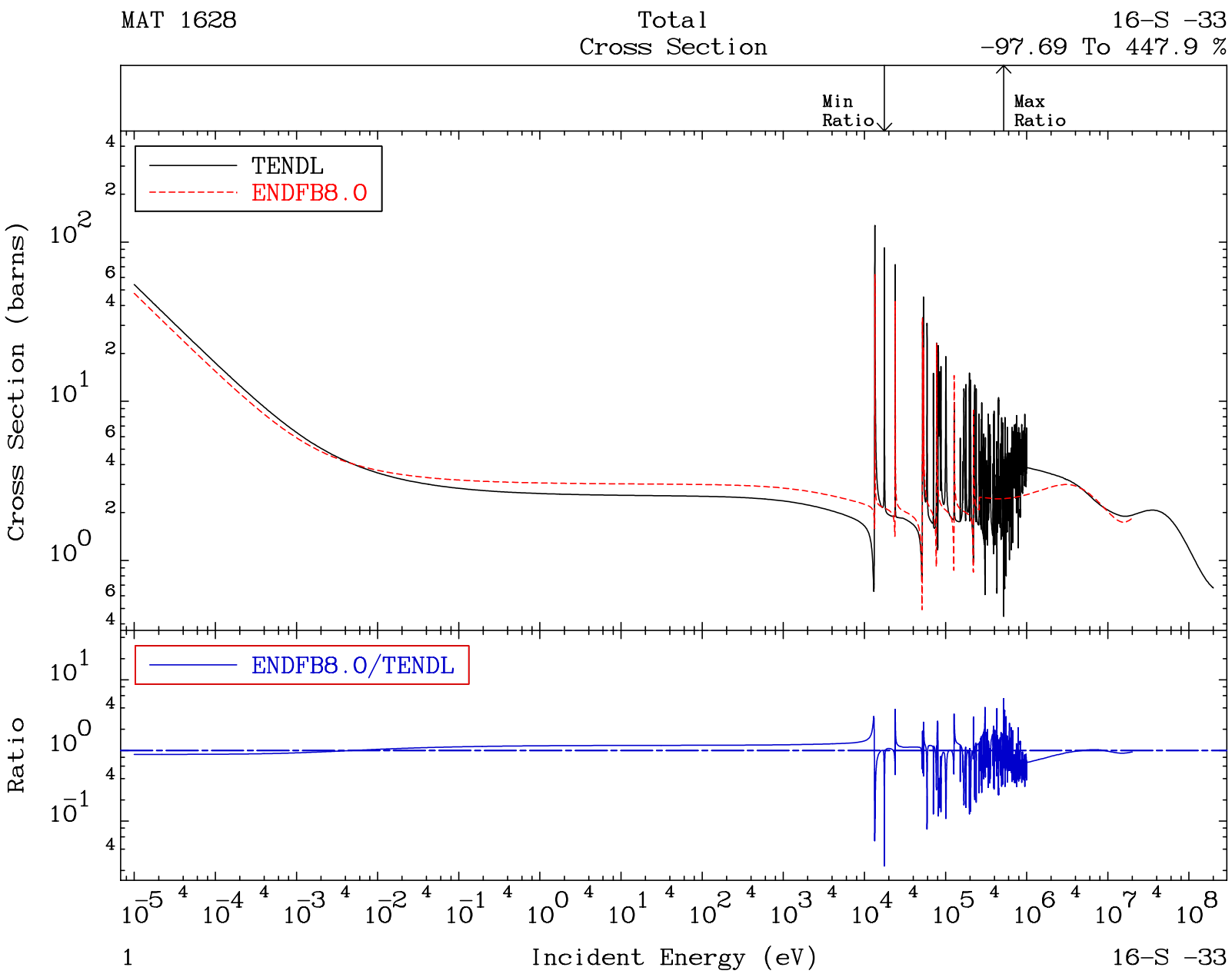
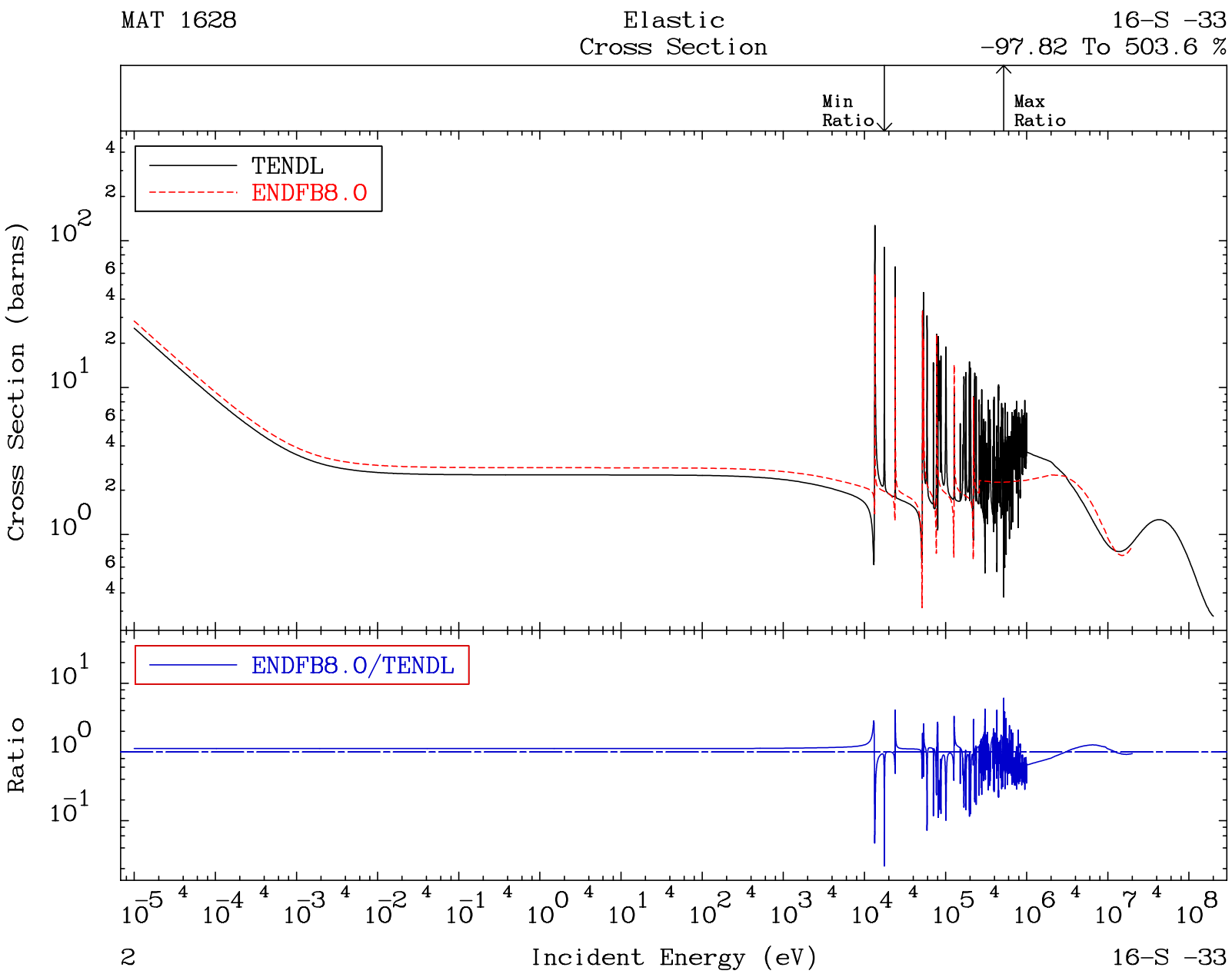
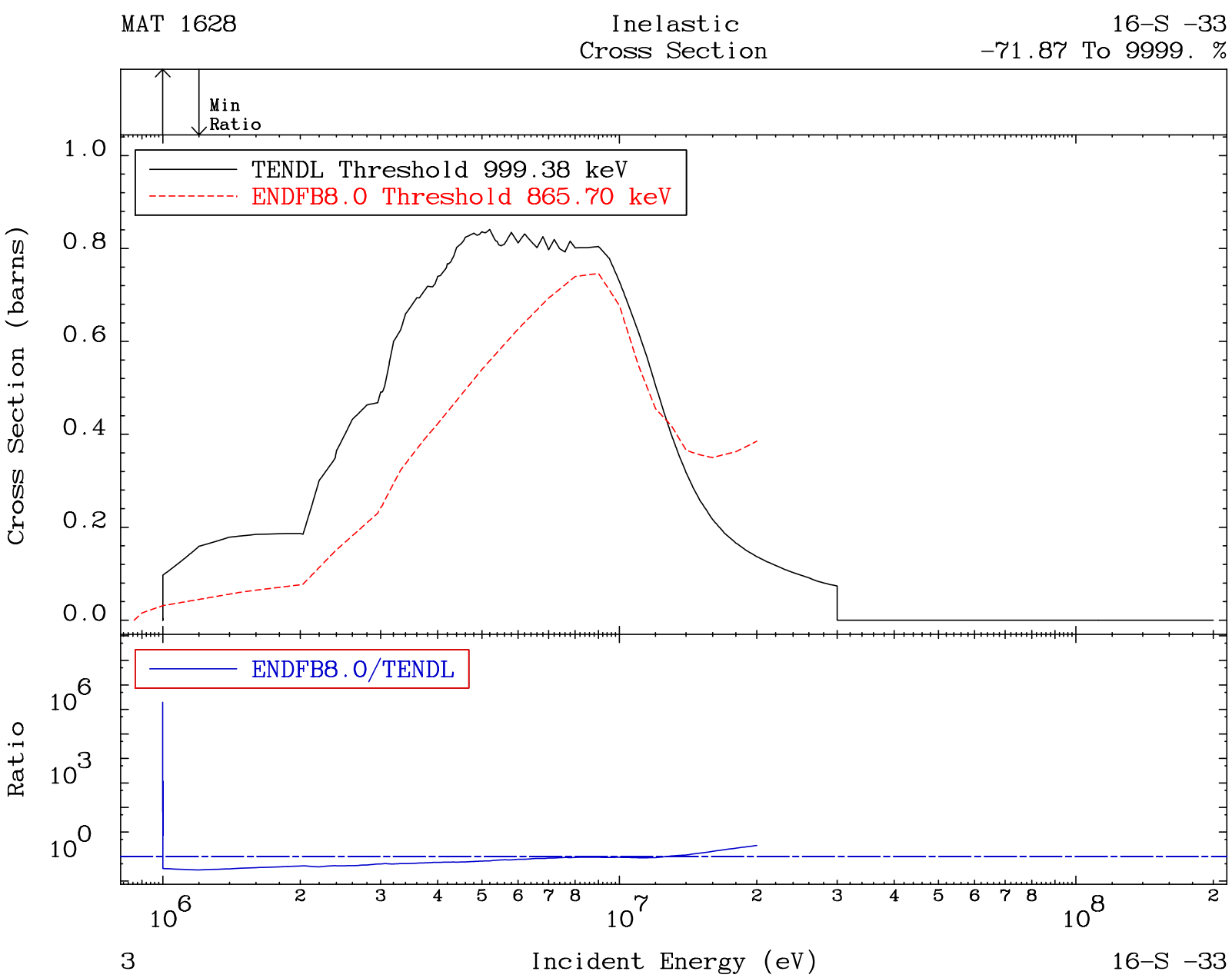
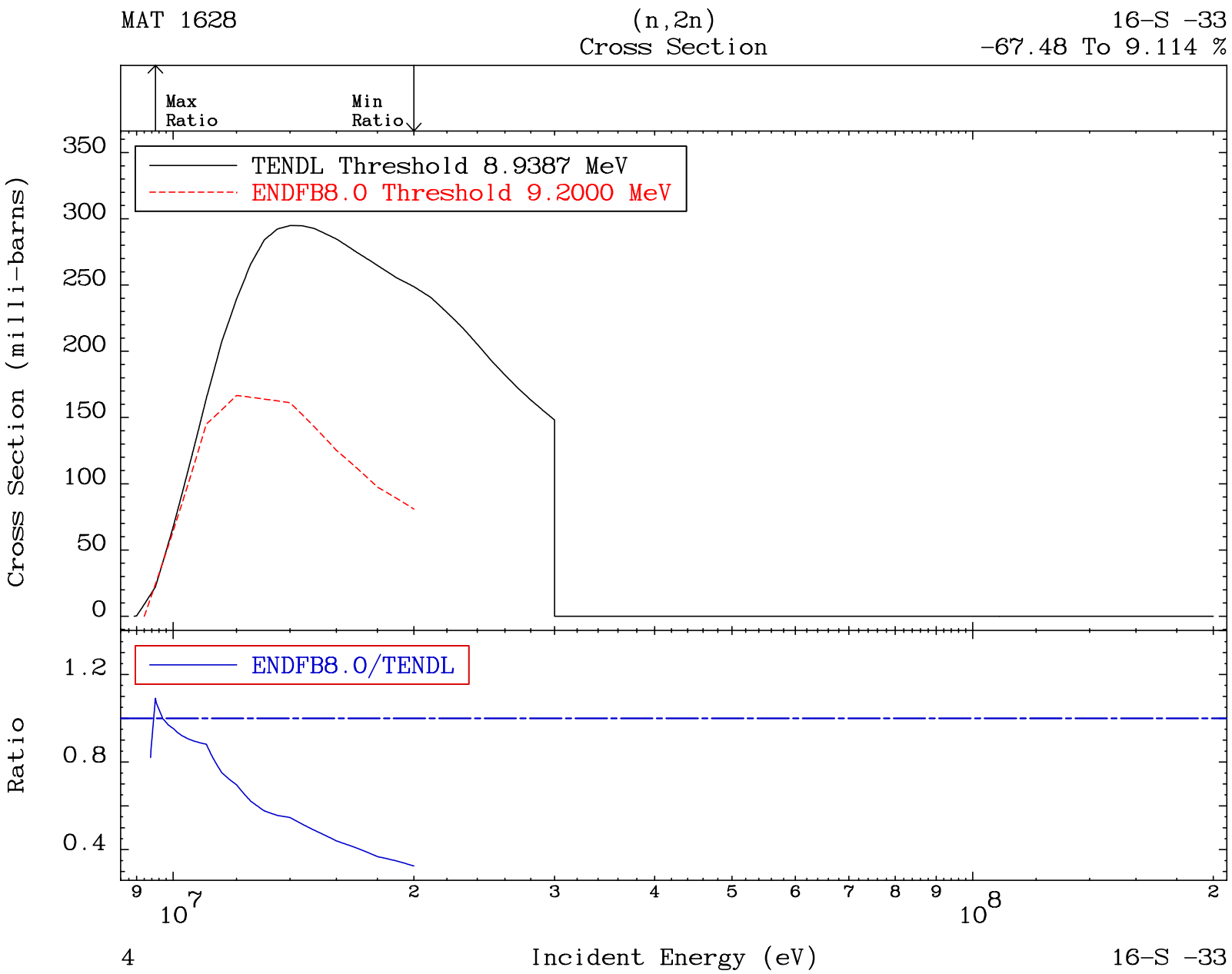
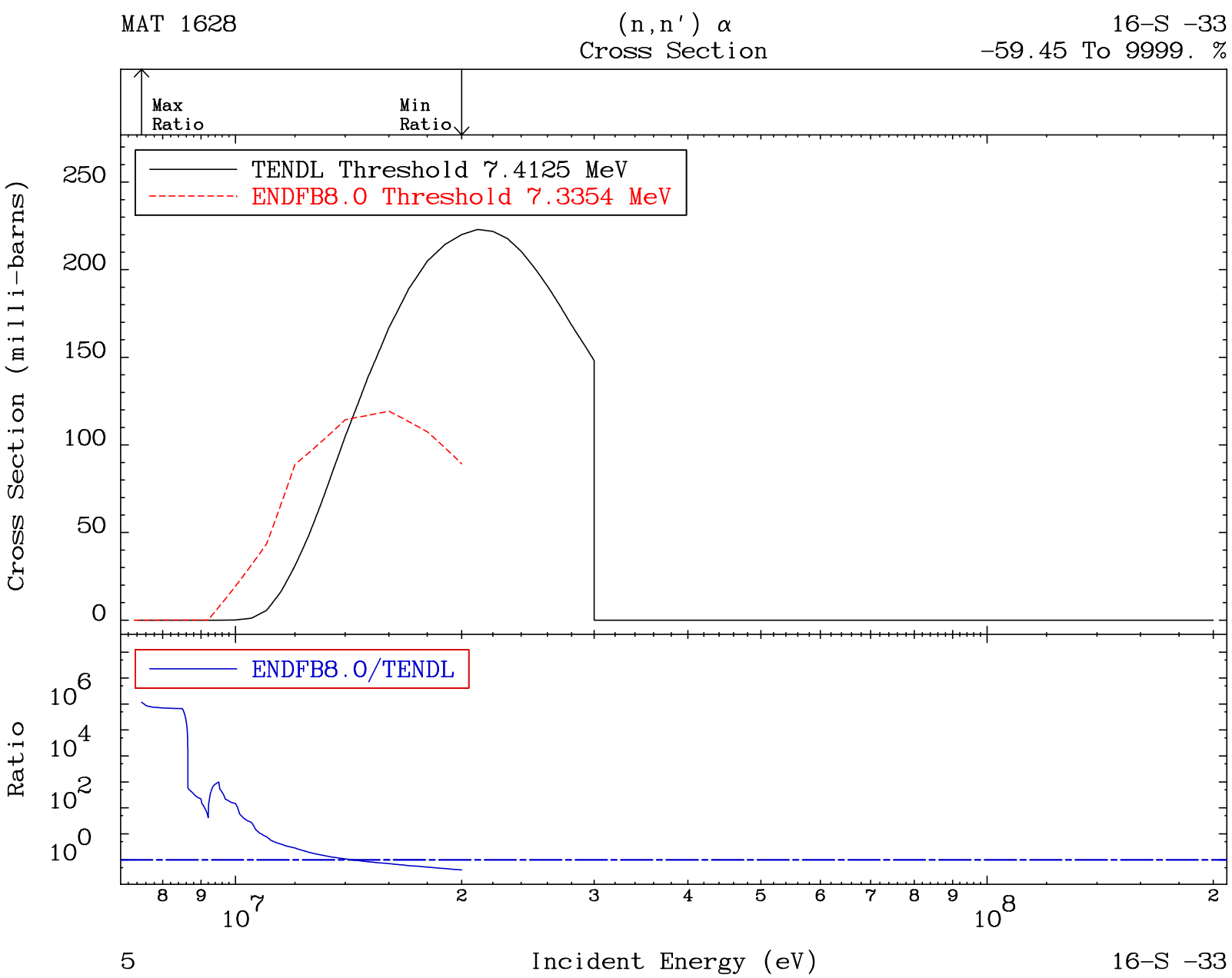
Press Mouse Button to Start

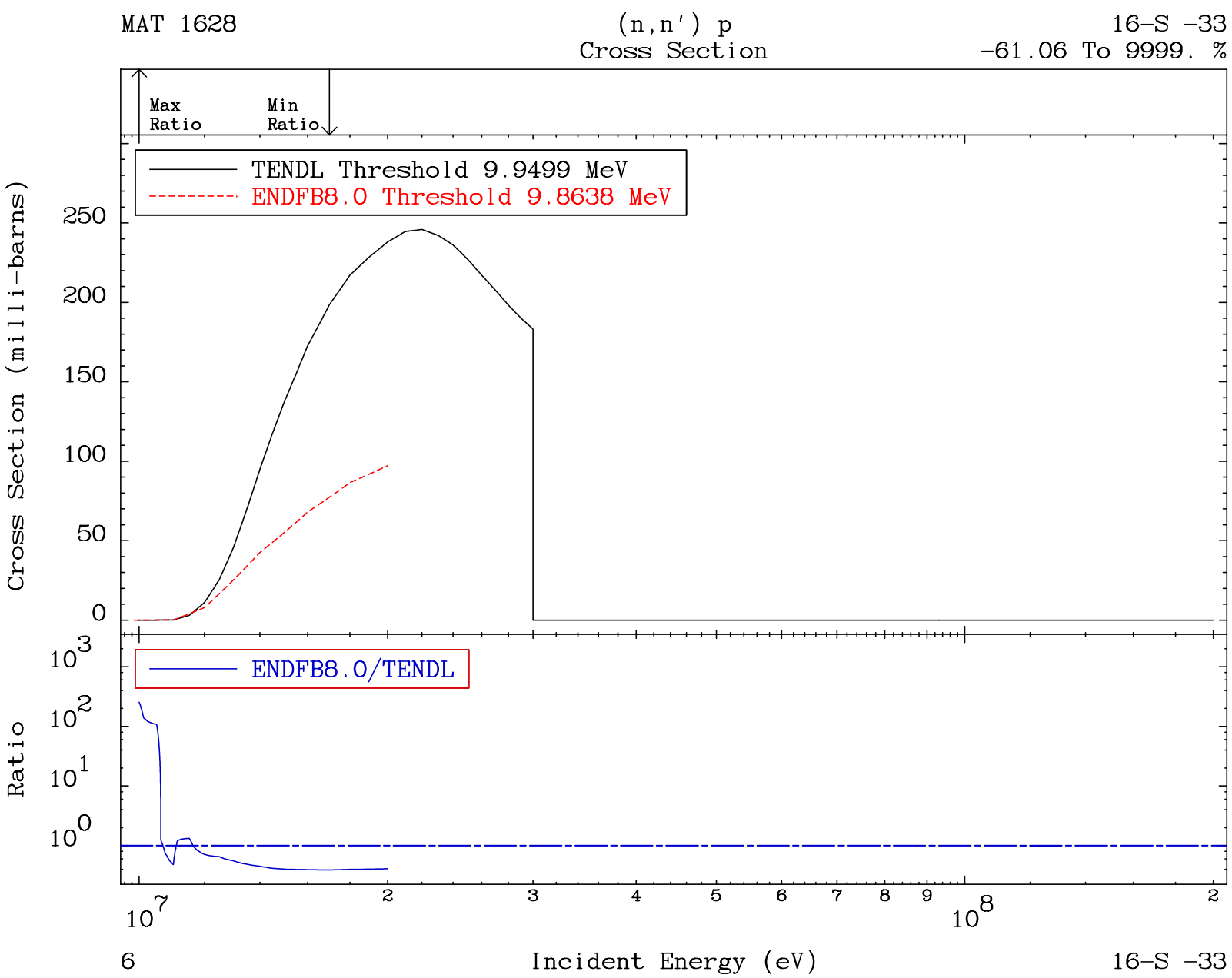

MAT 1628
Total
Cross Section
16-S -33
-97.69 To 447.9 %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
1
16-S -33

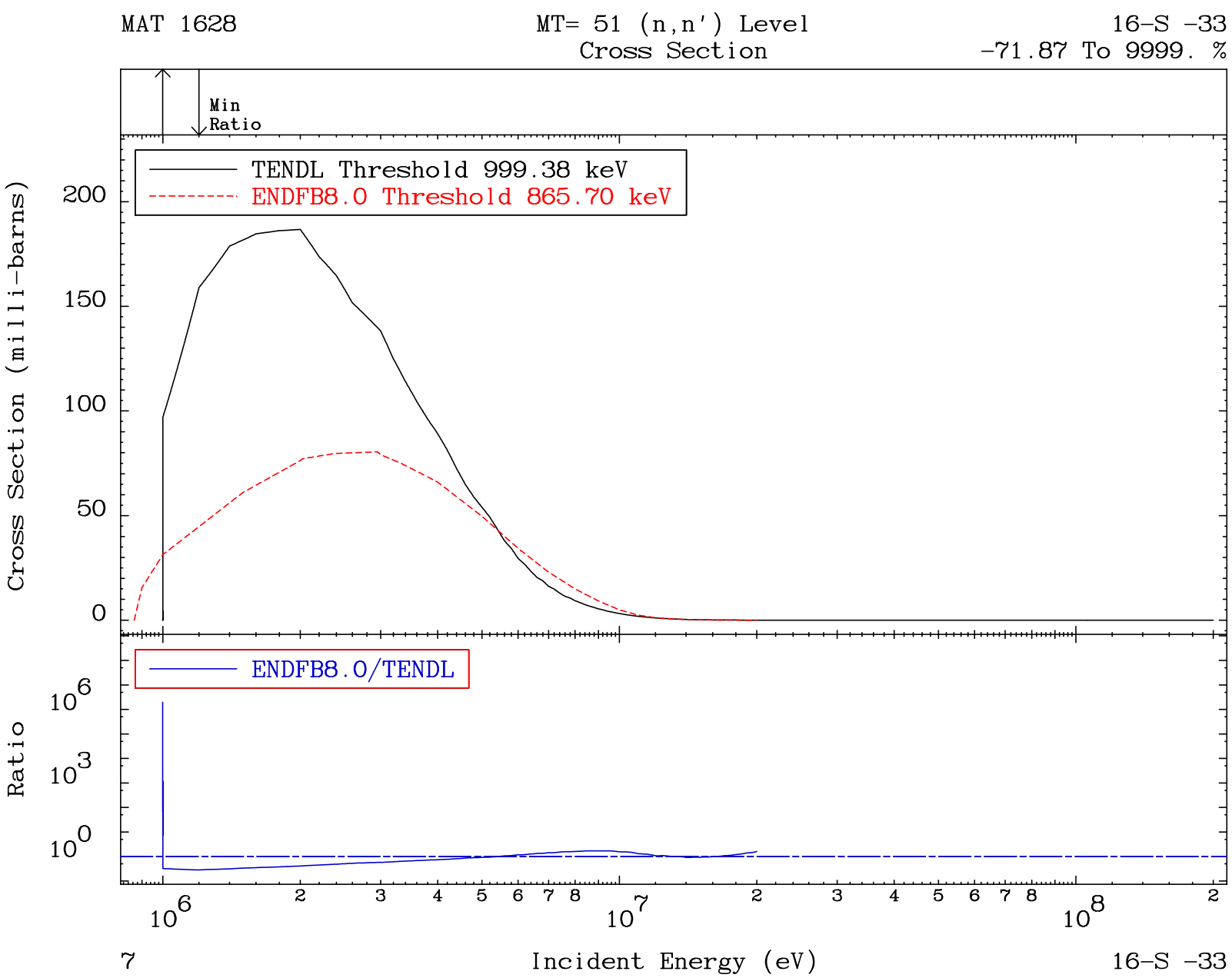

MAT 1628
Elastic
Cross Section
16-S -33
-97.82 To 503.6 %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
2
16-S -33

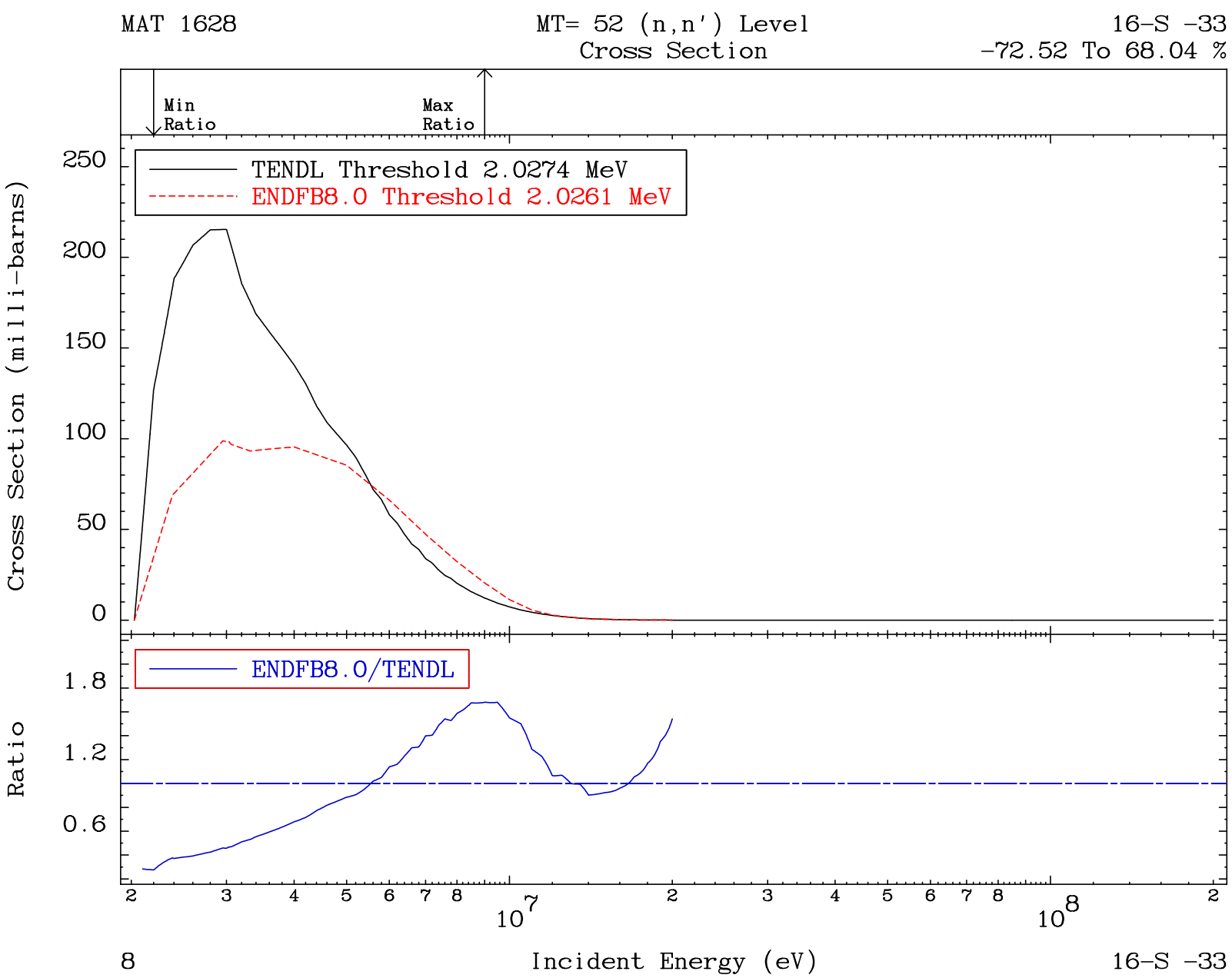

MAT 1628
Inelastic
Cross Section
16-S -33
-71.87 To 9999. %
Min
Ratio
TENDL Threshold 999.38 keV
ENDFB8.0 Threshold 865.70 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
ENDFB8.0/TENDL
Ratio
10^6
10^3
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
16-S -33

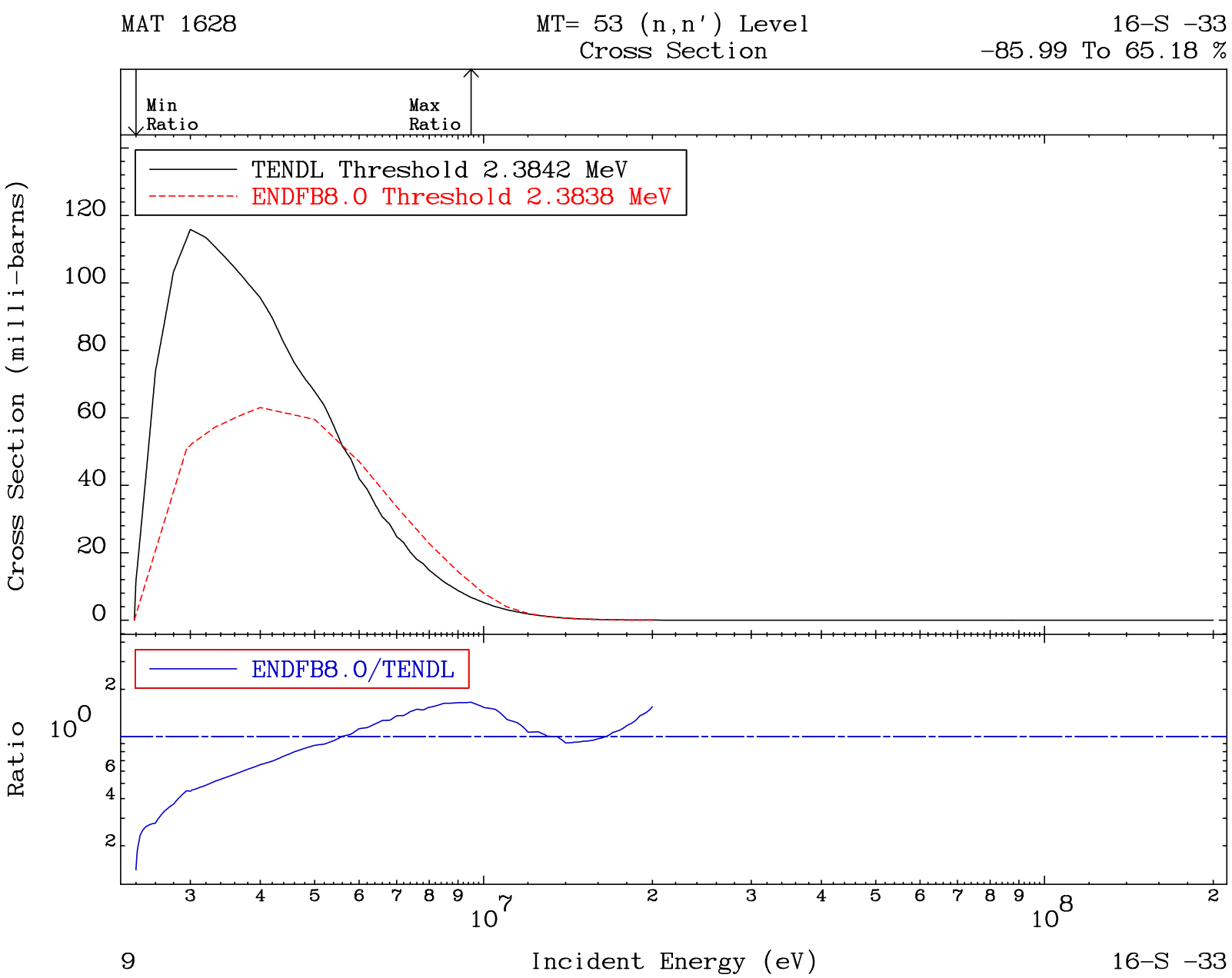

MAT 1628
(n,2n)
Cross Section
16-S -33
-67.48 To 9.114 %
Max Ratio
Min Ratio
TENDL Threshold 8.9387 MeV
ENDFB8.0 Threshold 9.2000 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.2
0.8
0.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
16-S -33

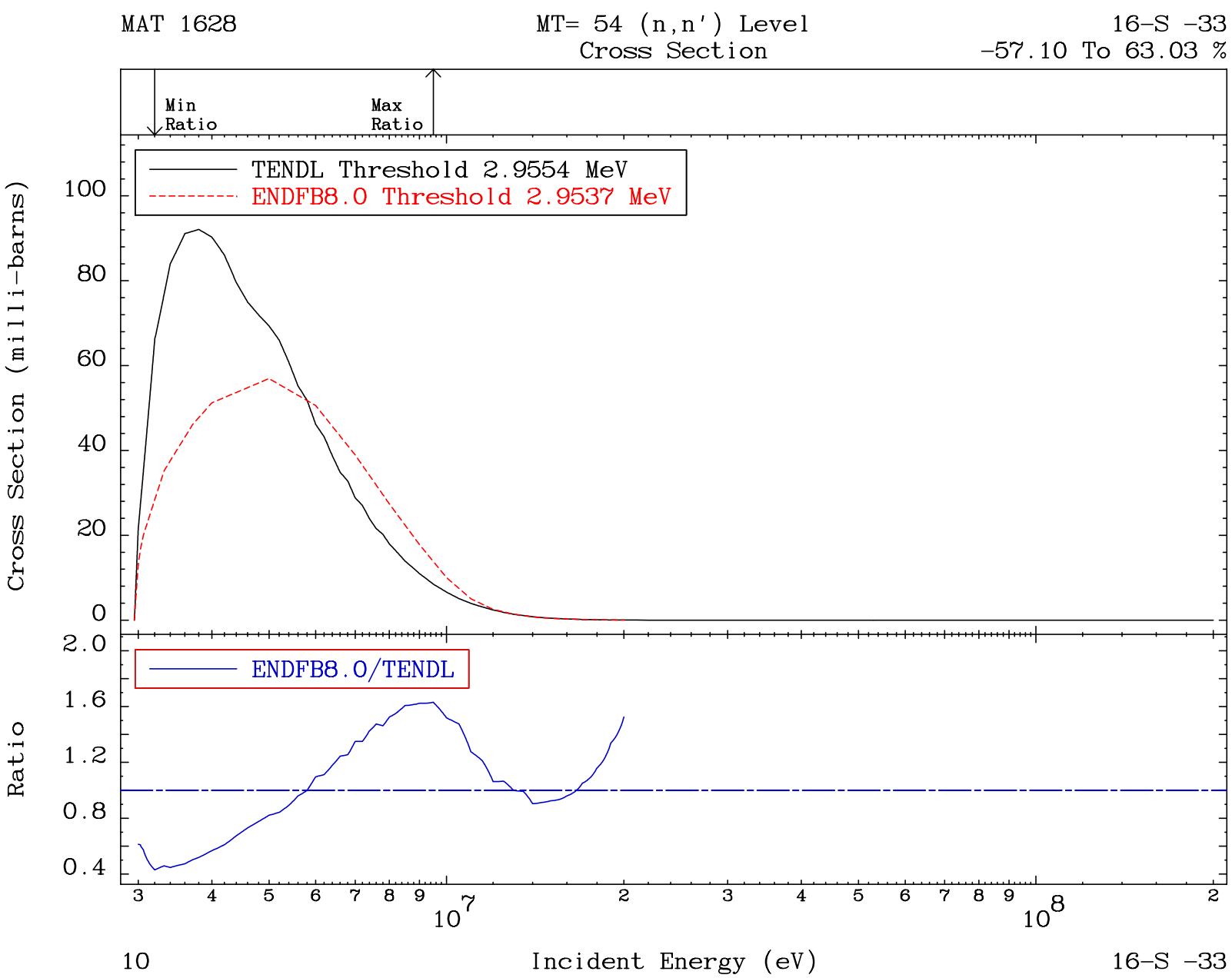

MAT 1628
(n,n') α
Cross Section
16-S -33
-59.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.4125 MeV
ENDFB8.0 Threshold 7.3354 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^6
10^4
10^2
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
16-S -33

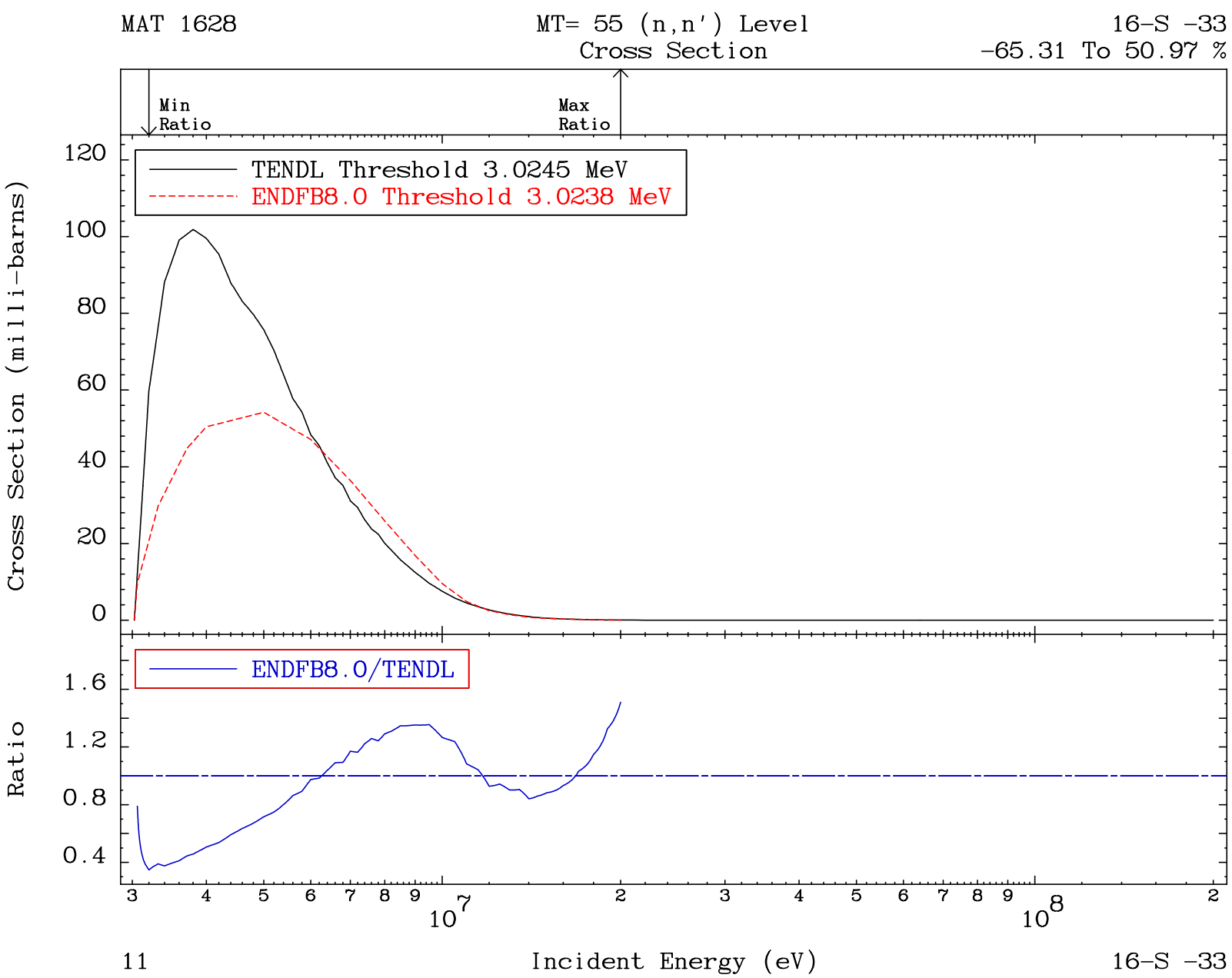

MAT 1628
(n,n') p
Cross Section
16-S -33
-61.06 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.9499 MeV
ENDFB8.0 Threshold 9.8638 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^3
10^2
10^1
10^0
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
16-S -33

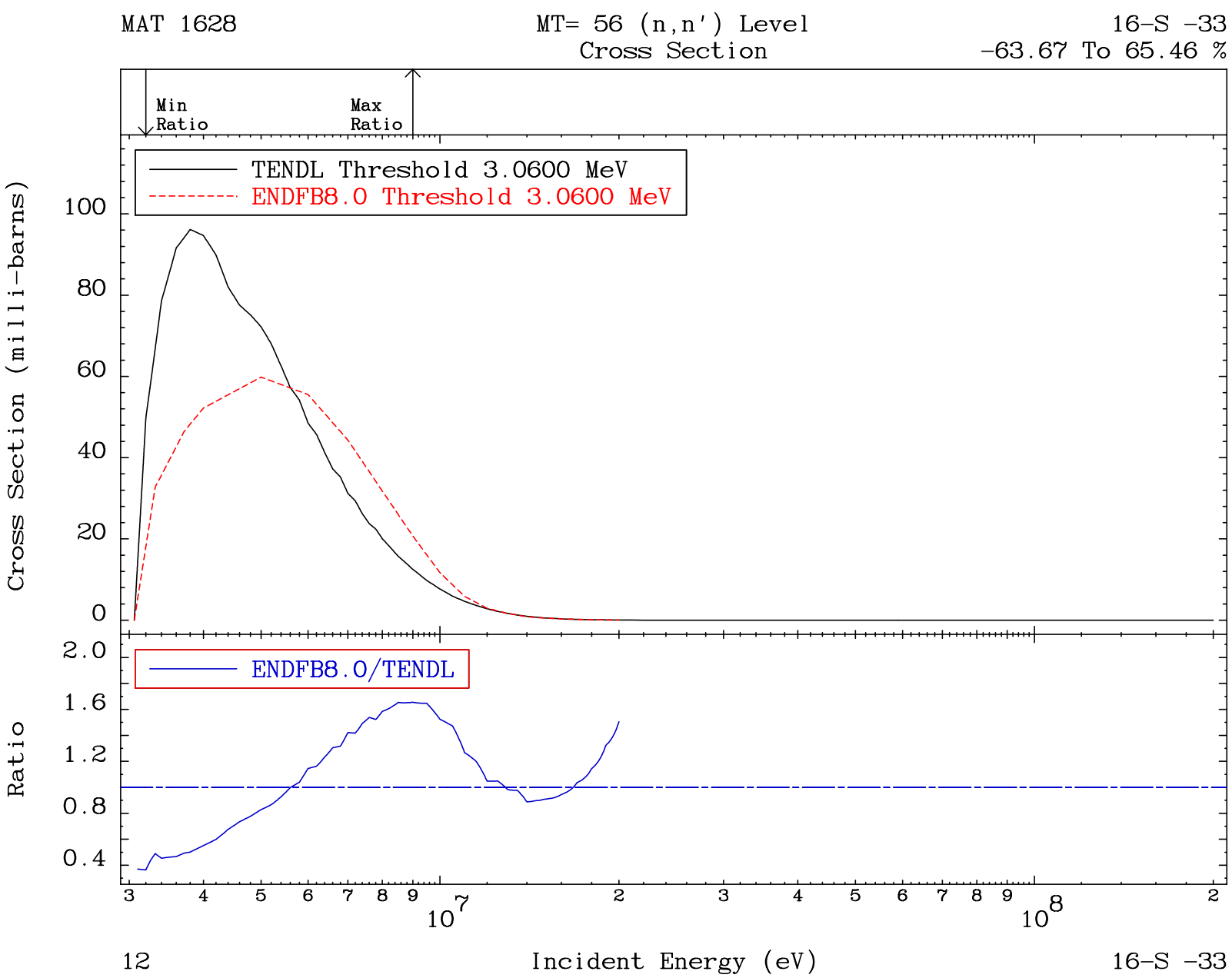

MAT 1628
MT= 51 (n,n') Level
Cross Section
16-S -33
-71.87 To 9999. %
Min
Ratio
TENDL Threshold 999.38 keV
ENDFB8.0 Threshold 865.70 keV
Cross Section (milli-barns)
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
10^6
10^3
10^0
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
7
Incident Energy (eV)
16-S -33

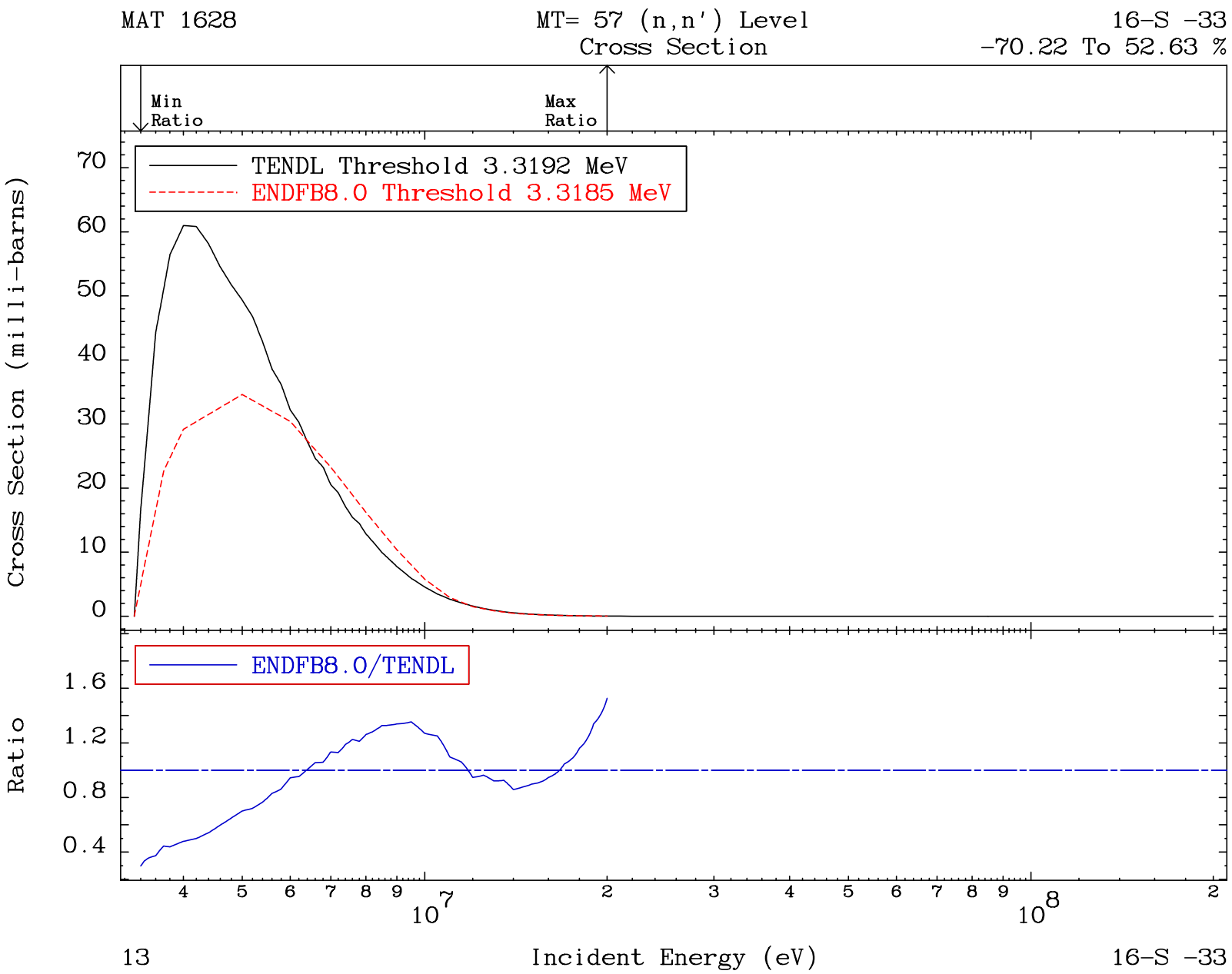

MAT 1628
MT= 52 (n,n') Level
Cross Section
16-S -33
-72.52 To 68.04 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.0274 MeV
ENDFB8.0 Threshold 2.0261 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
ENDFB8.0/TENDL
Ratio
1.8
1.2
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
8
Incident Energy (eV)
16-S -33

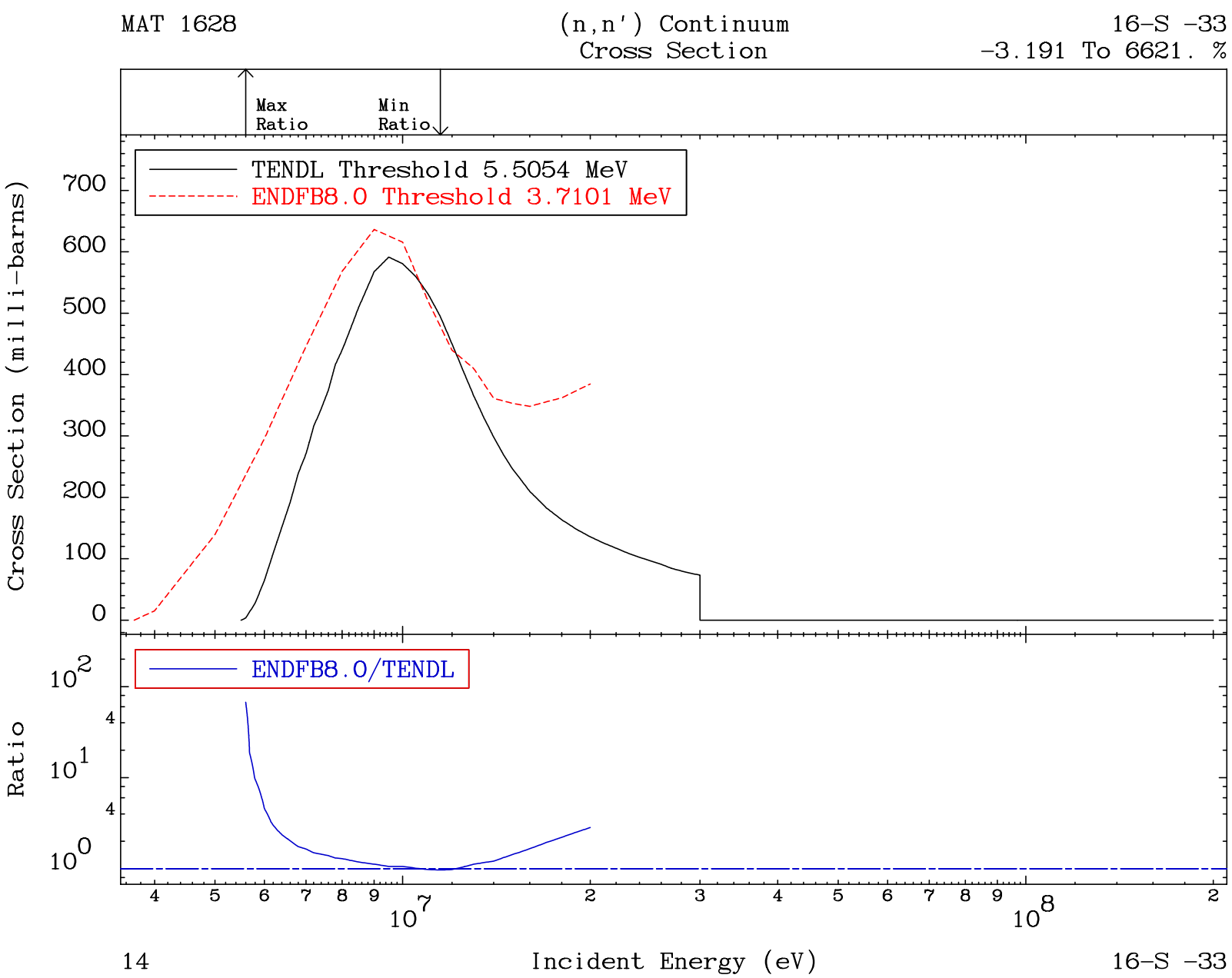

MAT 1628
MT= 53 (n,n') Level
Cross Section
16-S -33
-85.99 To 65.18 %
Min Ratio
Max Ratio
TENDL Threshold 2.3842 MeV
ENDFB8.0 Threshold 2.3838 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
10^0
2
6
4
2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
16-S -33

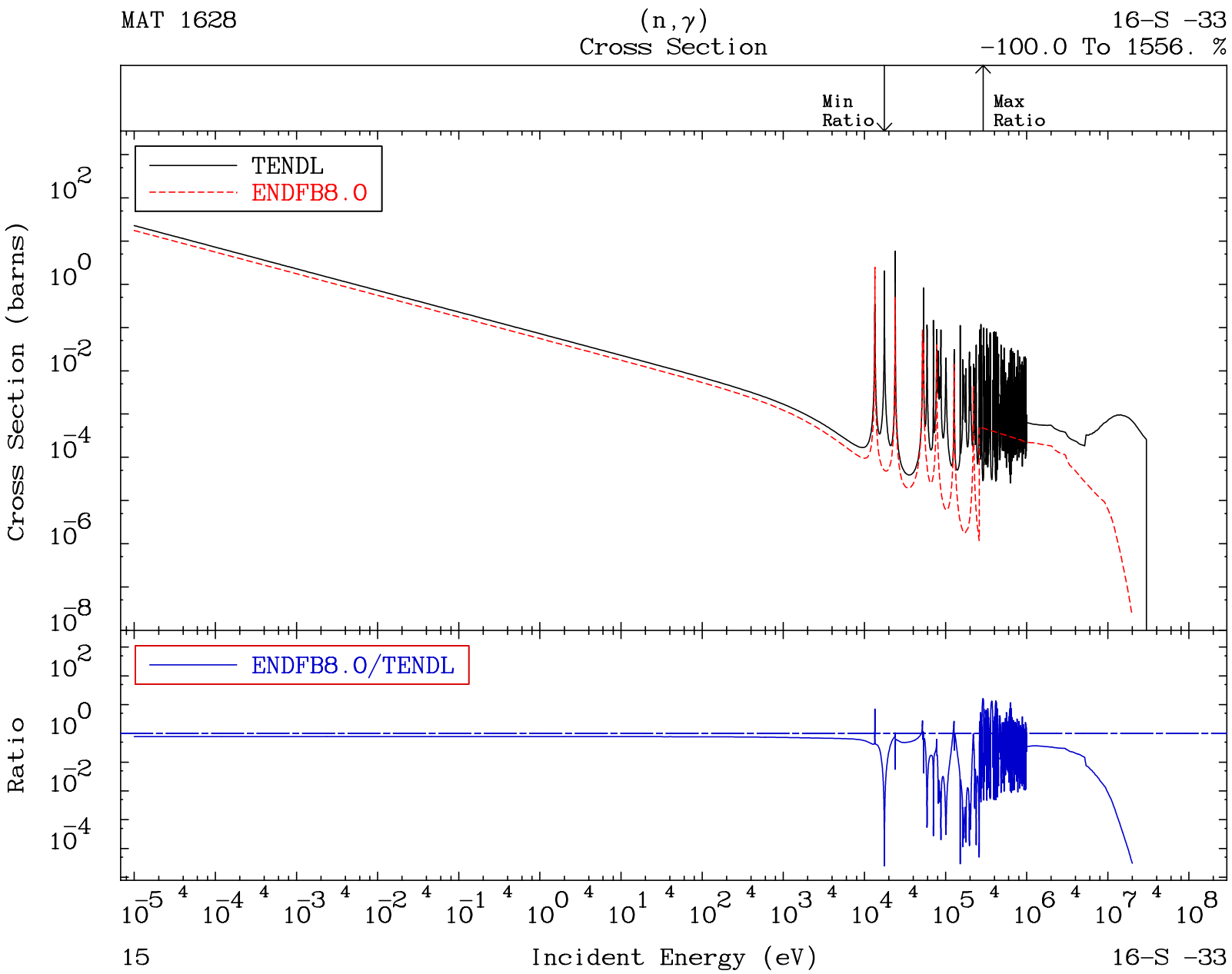

MAT 1628
MT= 54 (n,n') Level
Cross Section
16-S -33
-57.10 To 63.03 %
Min Ratio
Max Ratio
TENDL Threshold 2.9554 MeV
ENDFB8.0 Threshold 2.9537 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
2.0
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
16-S -33

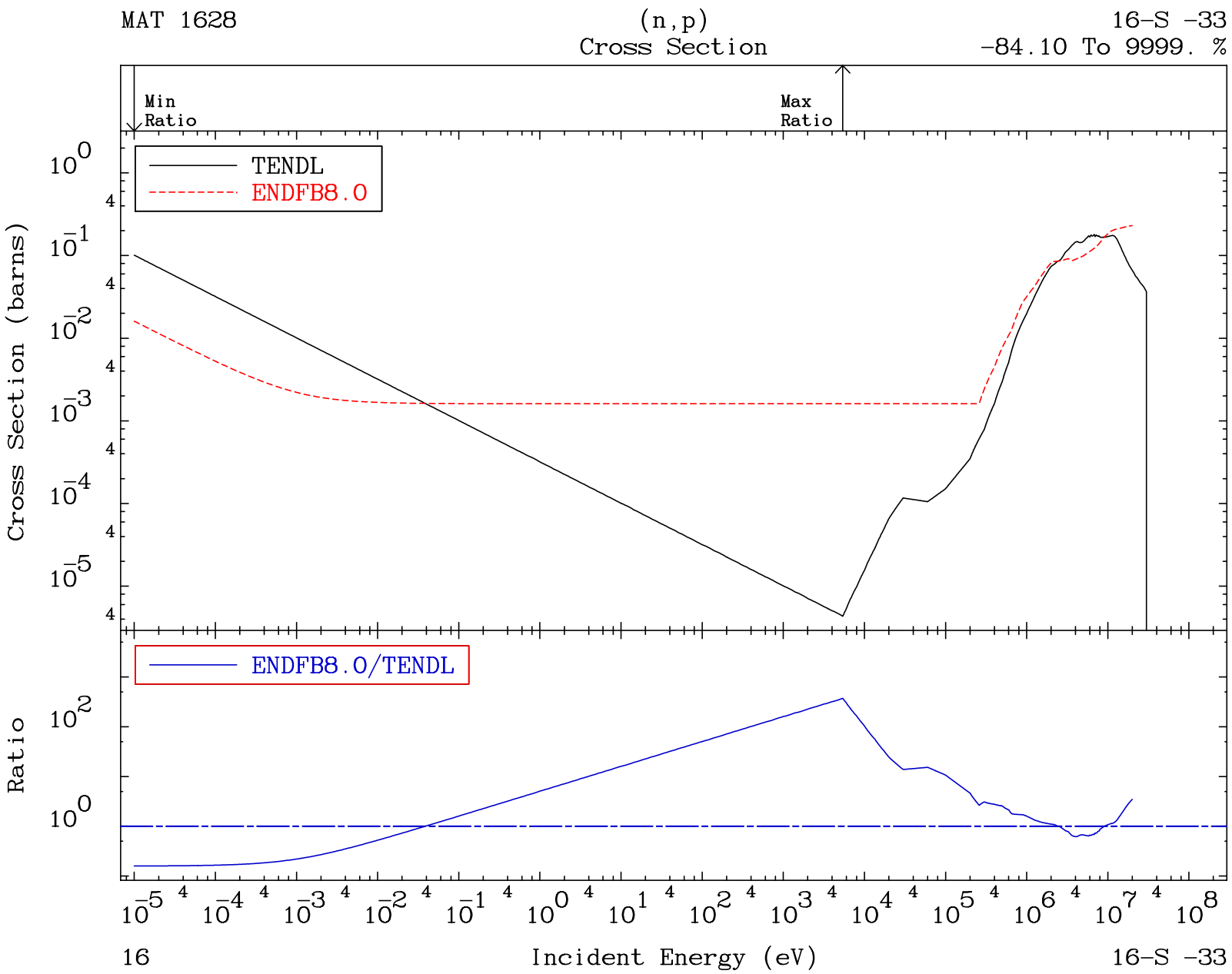

MAT 1628
MT= 55 (n,n') Level
Cross Section
16-S -33
-65.31 To 50.97 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.0245 MeV
ENDFB8.0 Threshold 3.0238 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
16-S -33

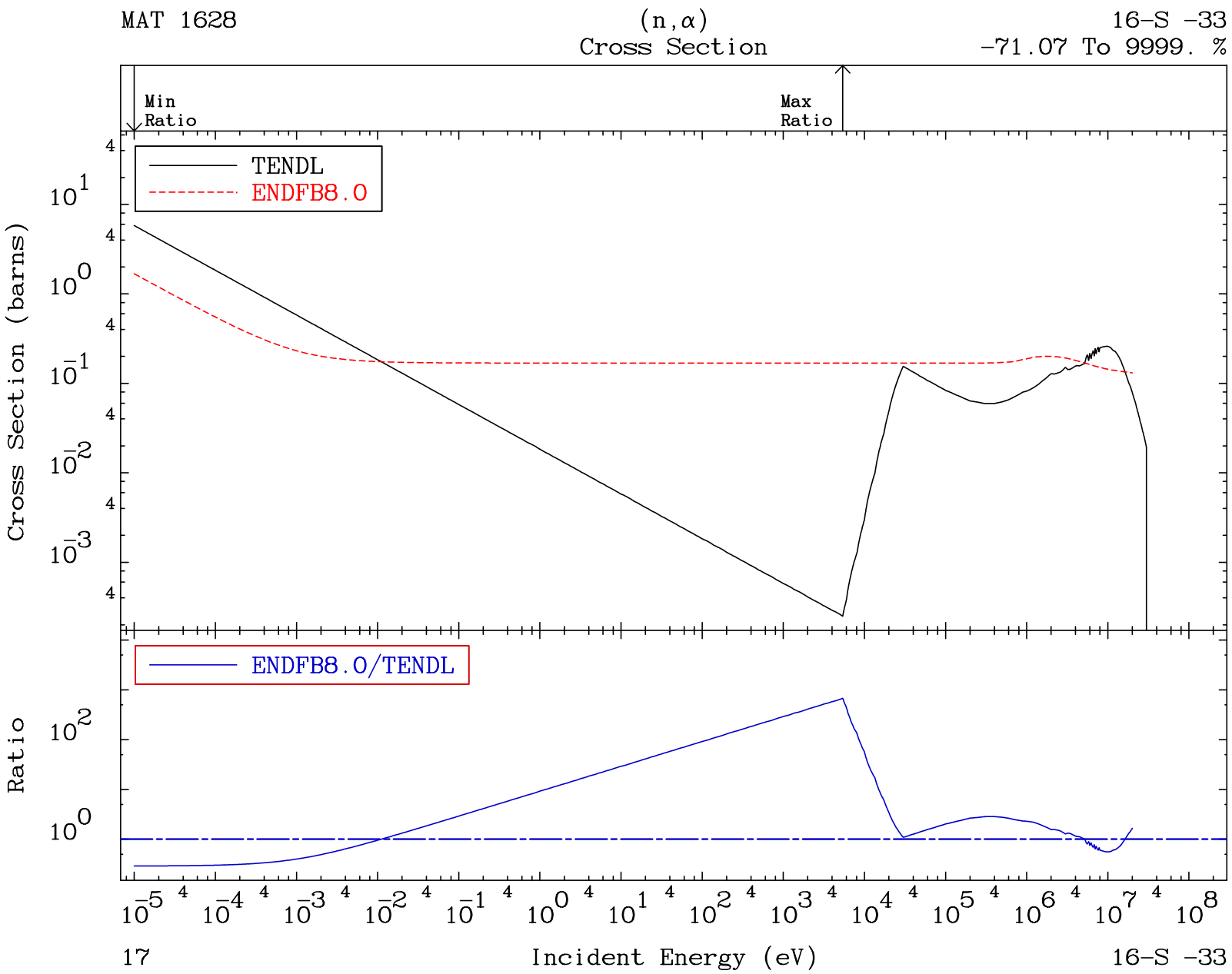

MAT 1628
MT= 56 (n,n') Level
Cross Section
16-S -33
-63.67 To 65.46 %
Min Ratio
Max Ratio
TENDL Threshold 3.0600 MeV
ENDFB8.0 Threshold 3.0600 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
ENDFB8.0/TENDL
Ratio
2.0
1.6
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
16-S -33

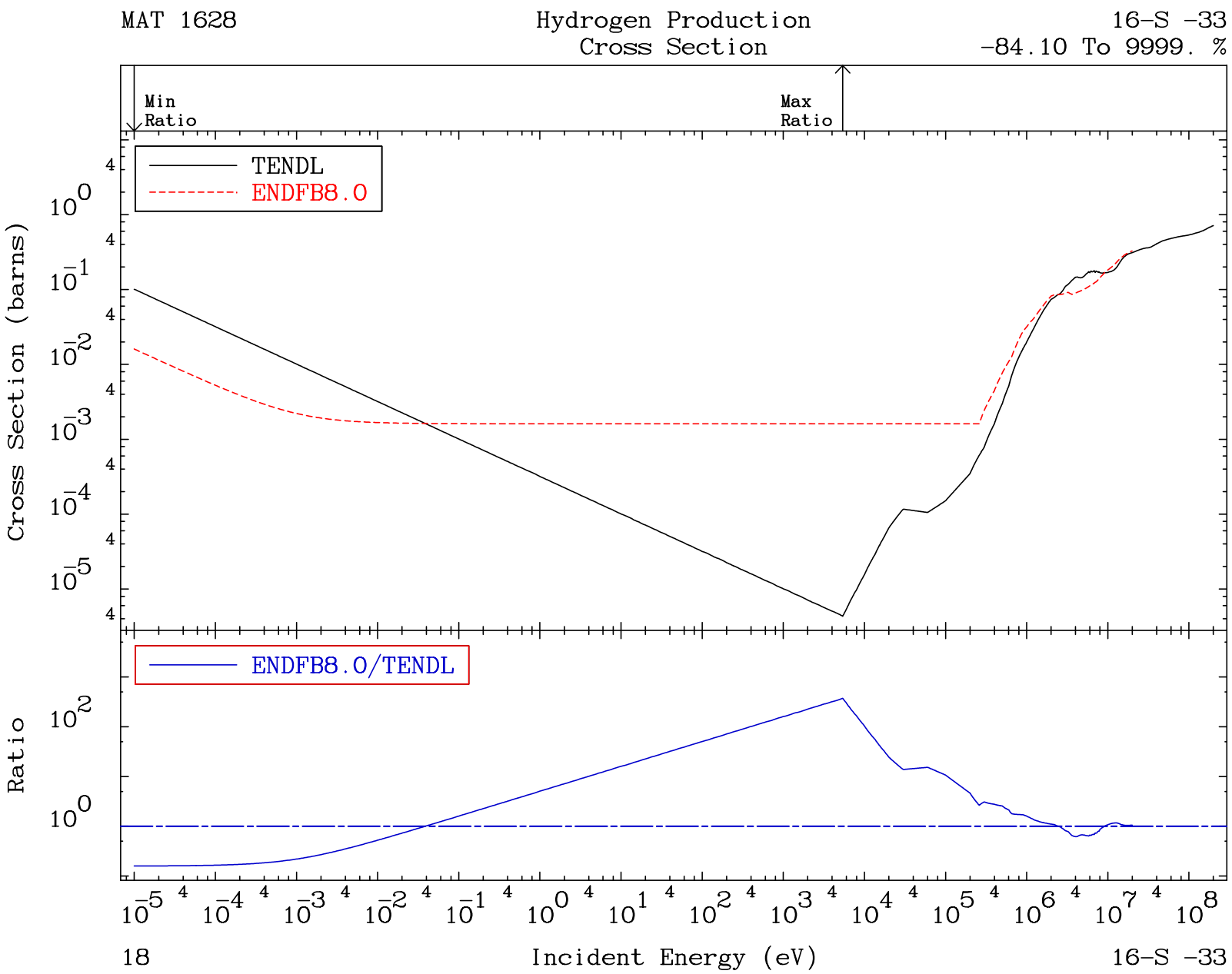

MAT 1628
MT= 57 (n,n') Level
Cross Section
16-S -33
-70.22 To 52.63 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.3192 MeV
ENDFB8.0 Threshold 3.3185 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
16-S -33

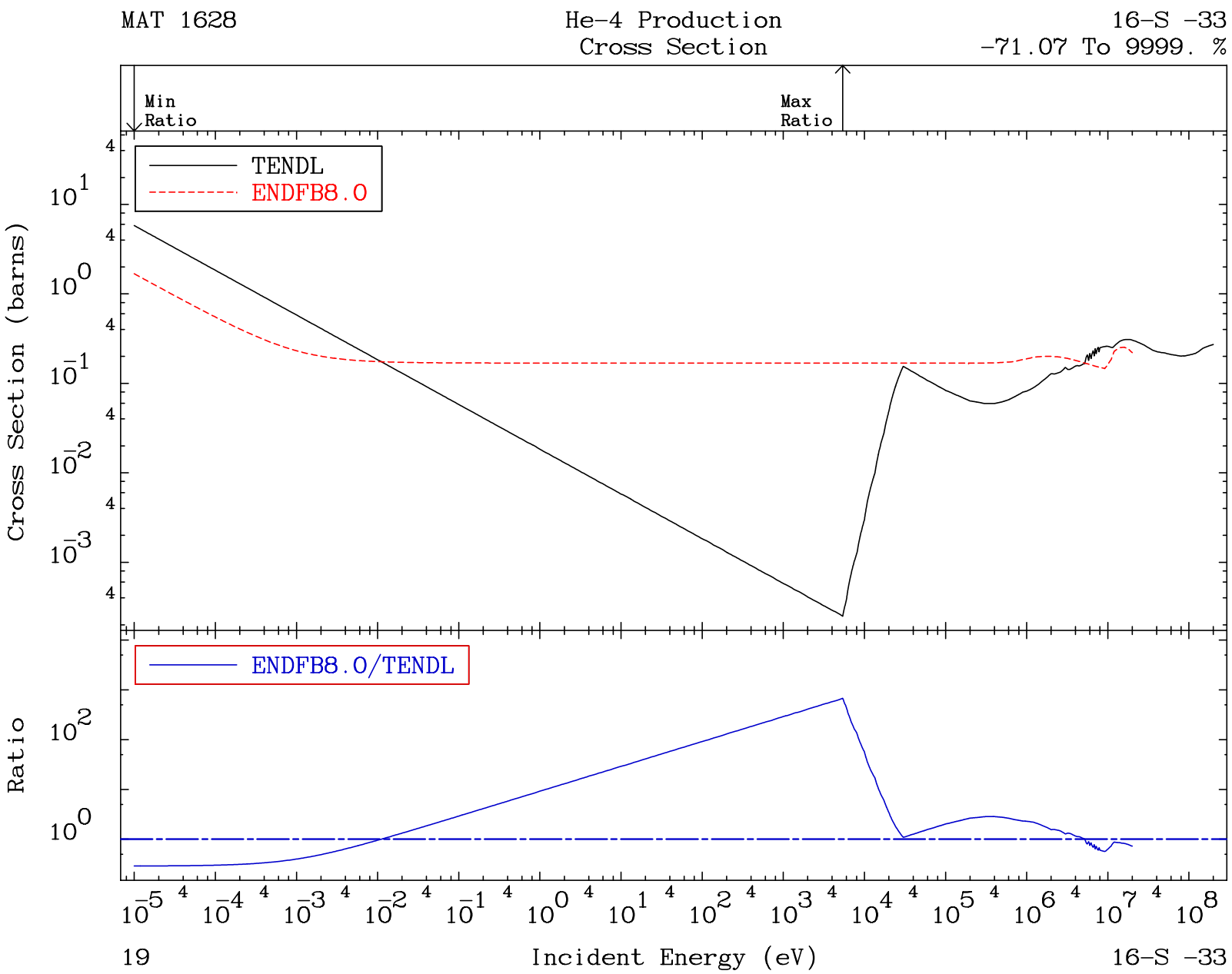

MAT 1628
(n,n') Continuum
Cross Section
16-S -33
-3.191 To 6621. %
Max Ratio
Min Ratio
TENDL Threshold 5.5054 MeV
ENDFB8.0 Threshold 3.7101 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
ENDFB8.0/TENDL
Ratio
$10^2$
4
$10^1$
4
$10^0$
4 5 6 7 8 9 $10^7$ 2 3 4 5 6 7 8 9 $10^8$ 2
14
Incident Energy (eV)
16-S -33

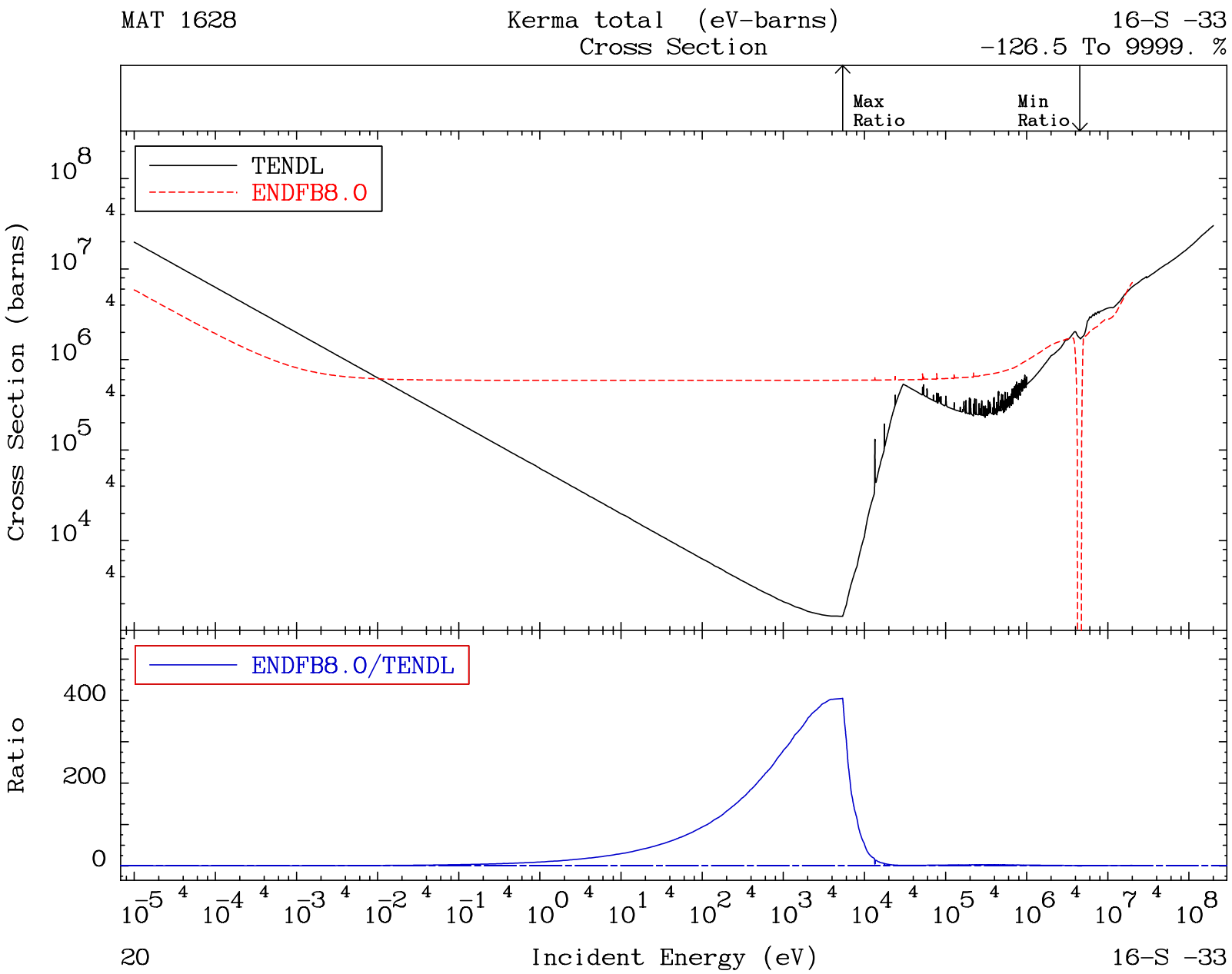

MAT 1628
(n,γ)
Cross Section
16-S -33
-100.0 To 1556. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
15
16-S -33

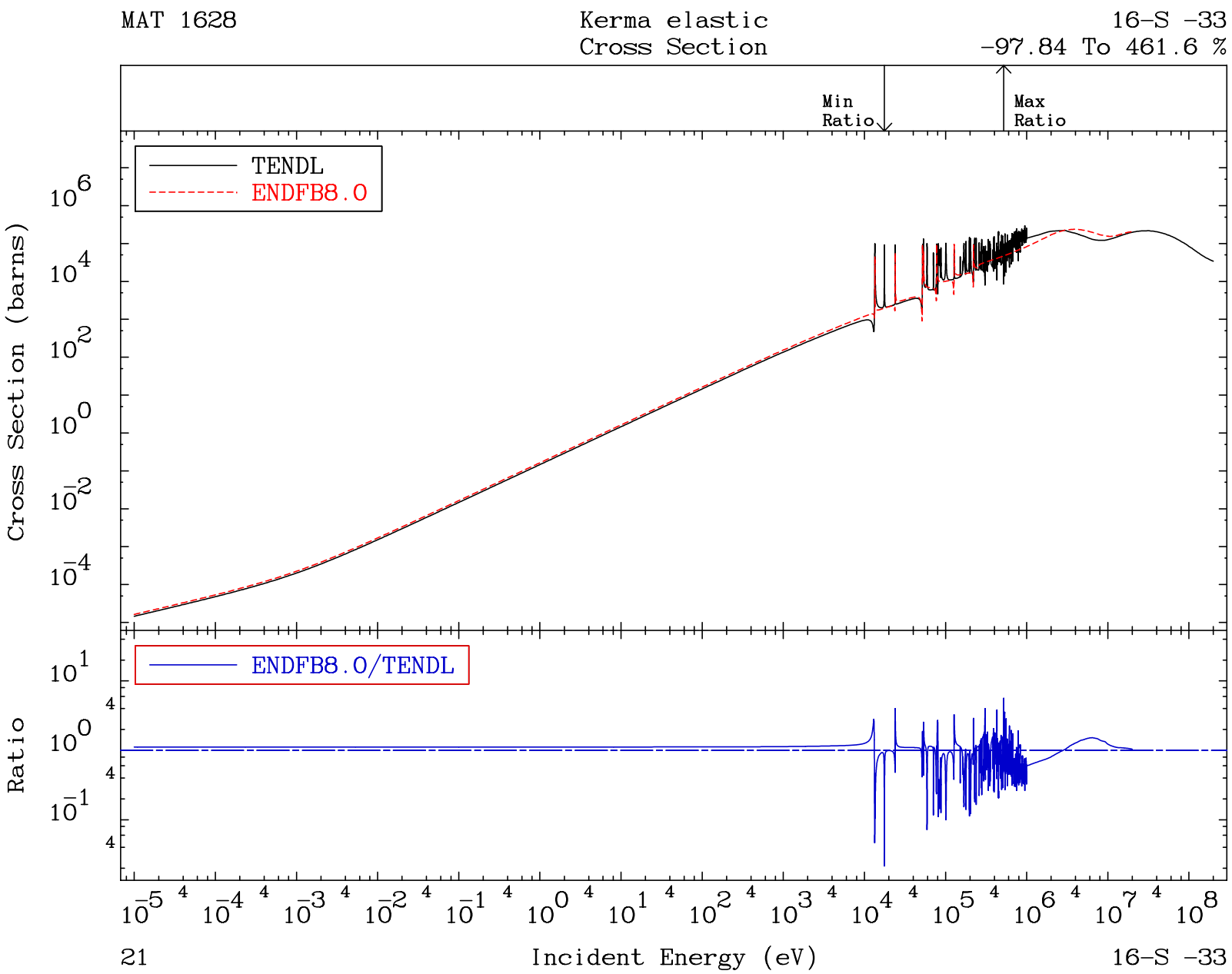

MAT 1628
(n,p)
Cross Section
16-S -33
-84.10 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
16
16-S -33

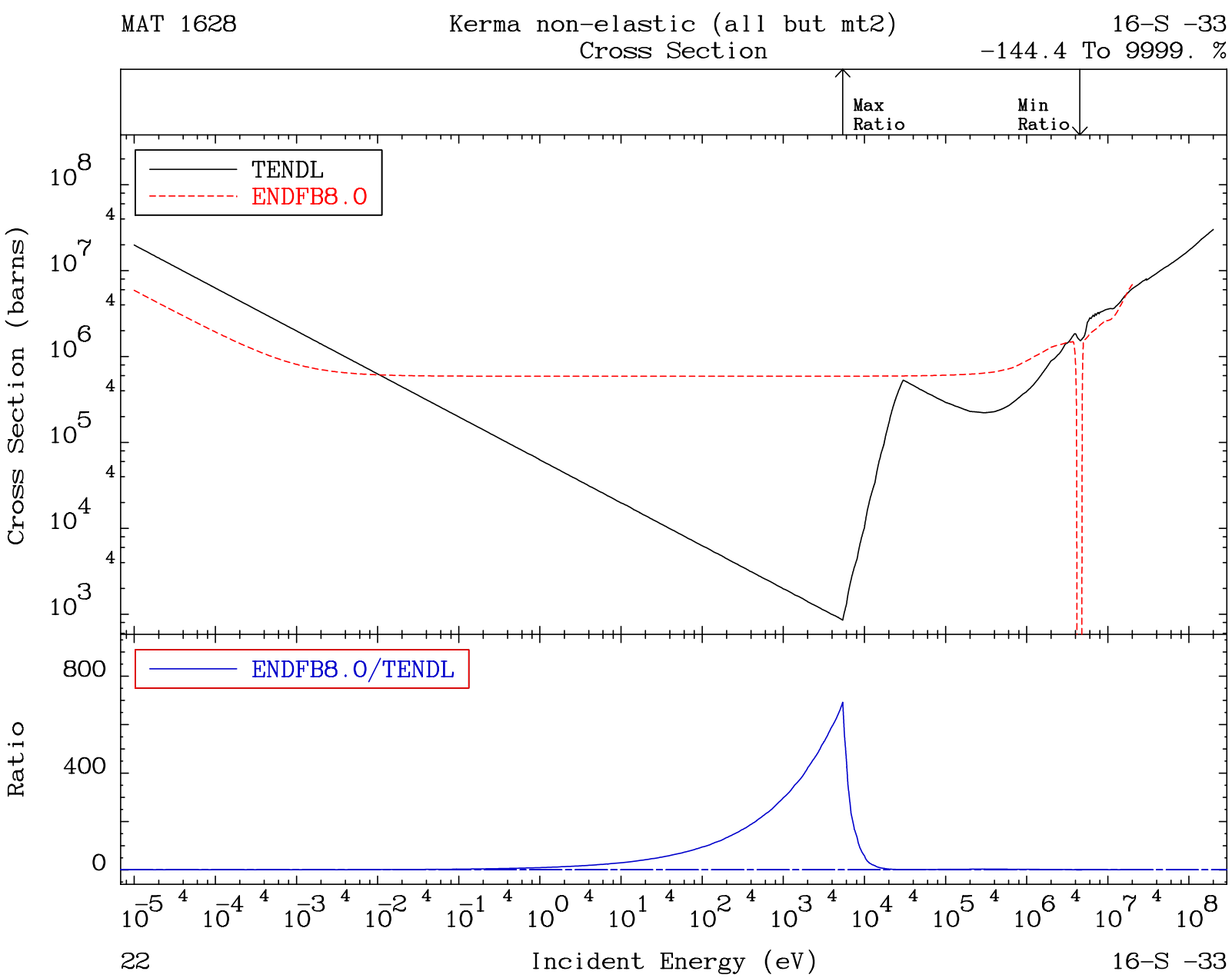

MAT 1628
(n,α)
Cross Section
16-S -33
-71.07 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
17
16-S -33

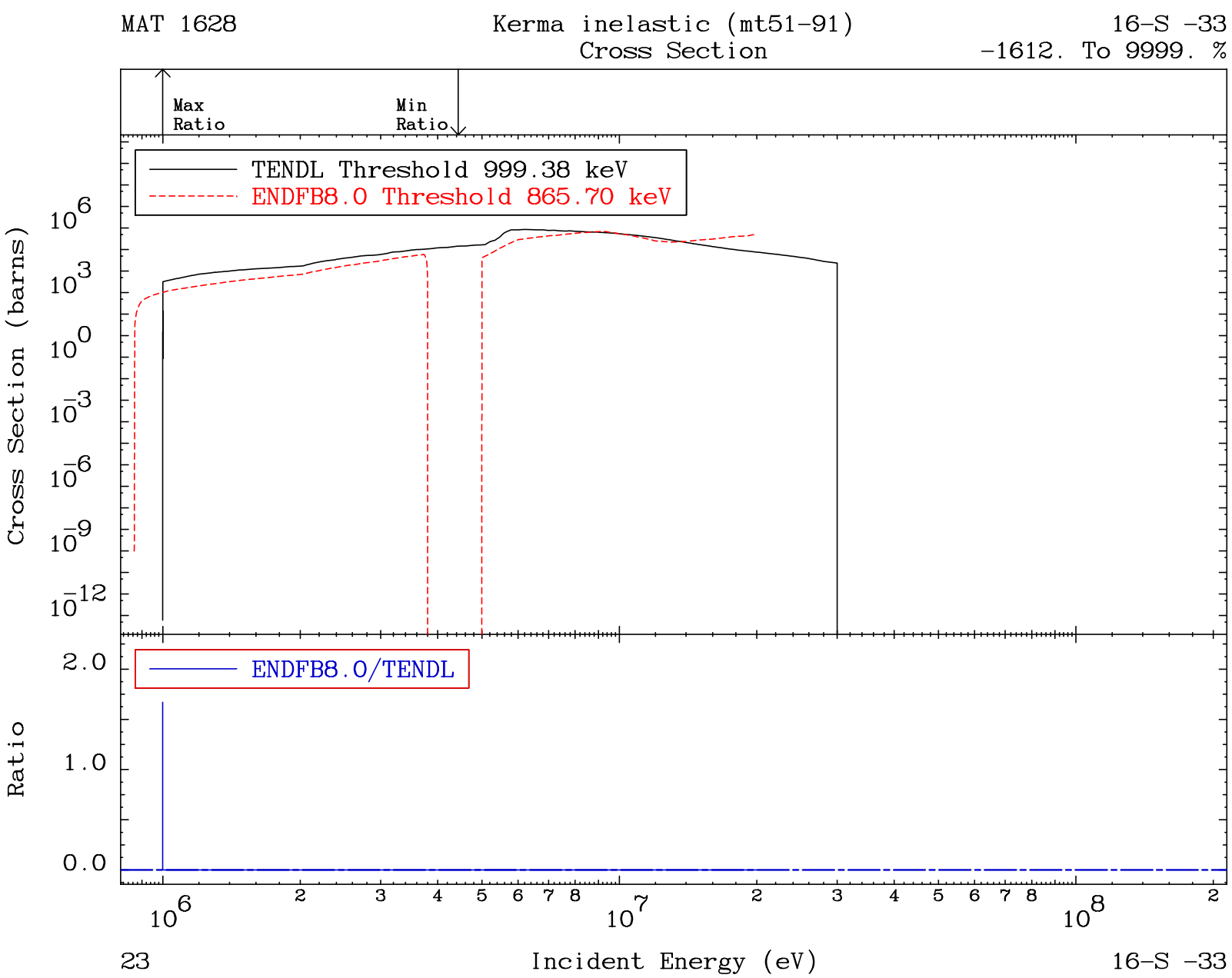

MAT 1628
Hydrogen Production
Cross Section
16-S -33
-84.10 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
18
16-S -33

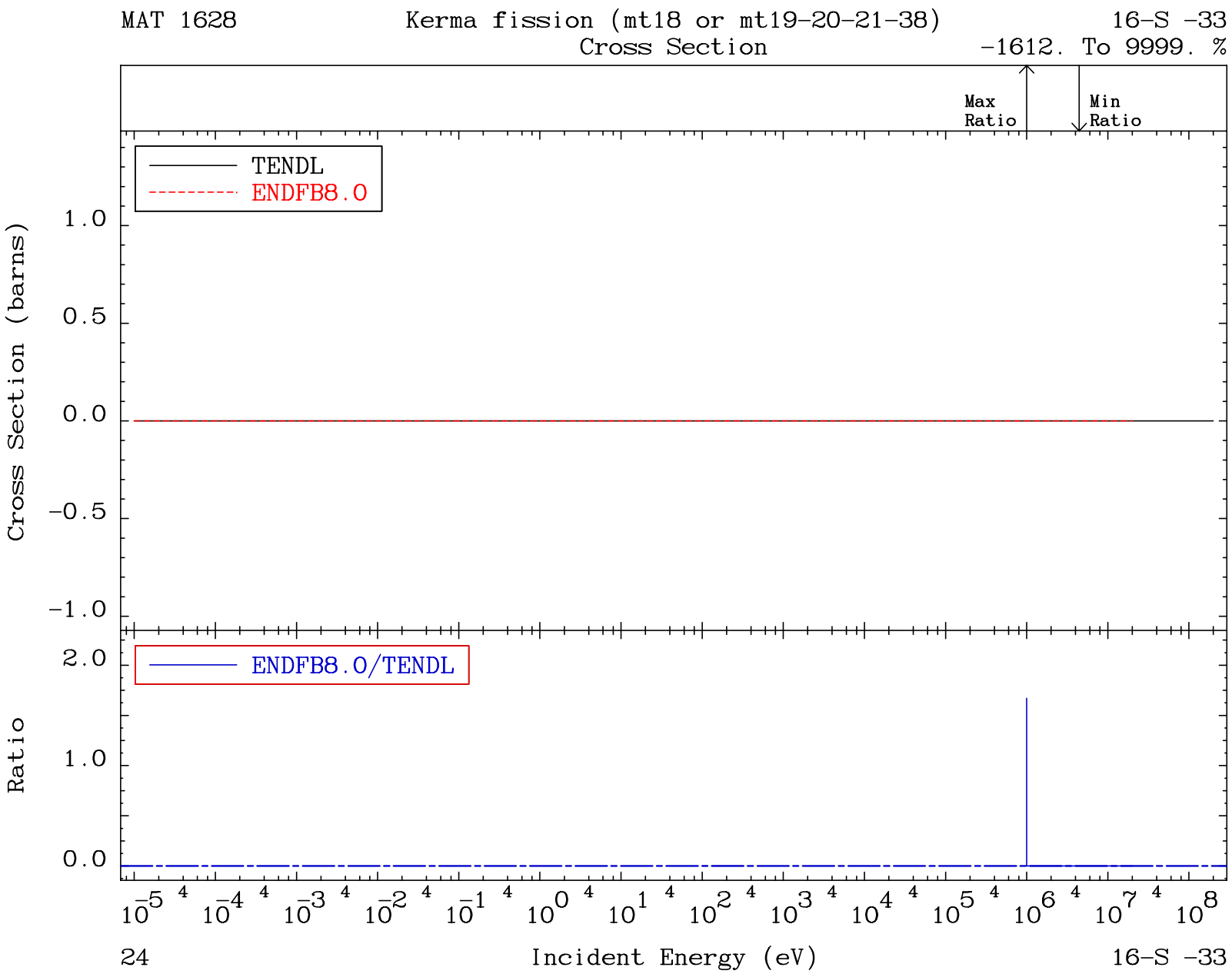

MAT 1628
He-4 Production
Cross Section
16-S -33
-71.07 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
19
16-S -33

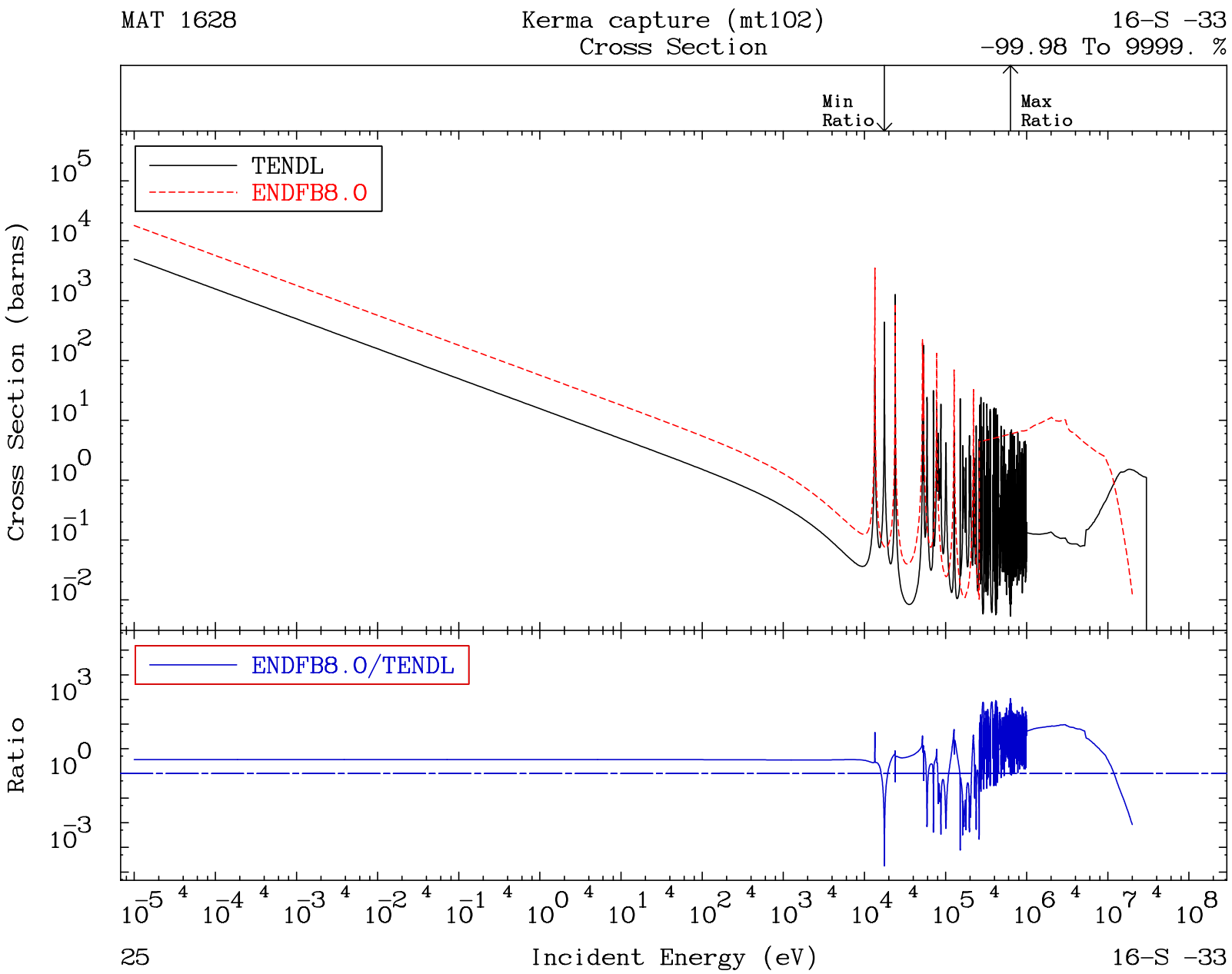

MAT 1628
Kerma total (eV-barns)
Cross Section
16-S -33
-126.5 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
20
16-S -33

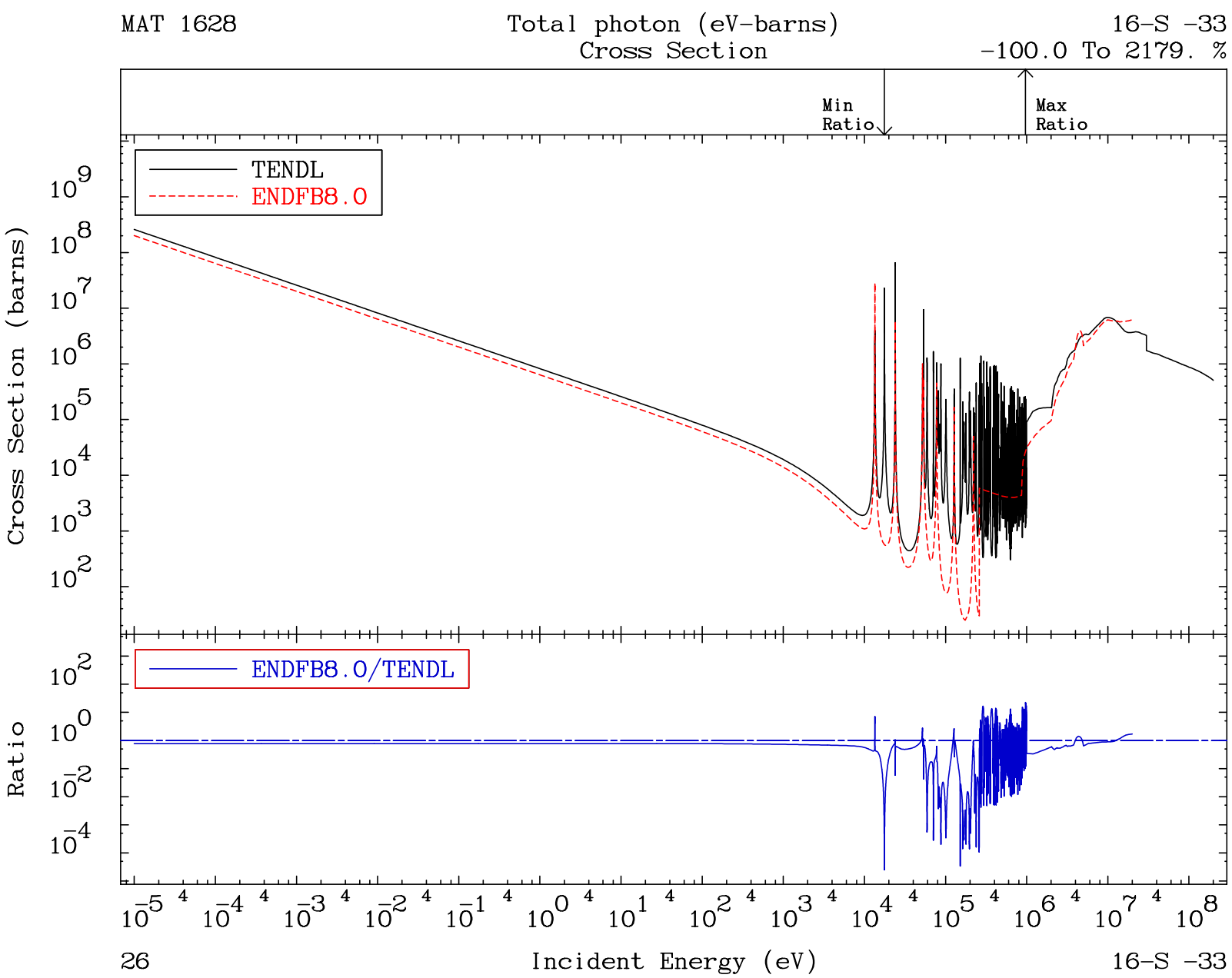

MAT 1628
Kerma elastic
Cross Section
16-S -33
-97.84 To 461.6 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
21
16-S -33

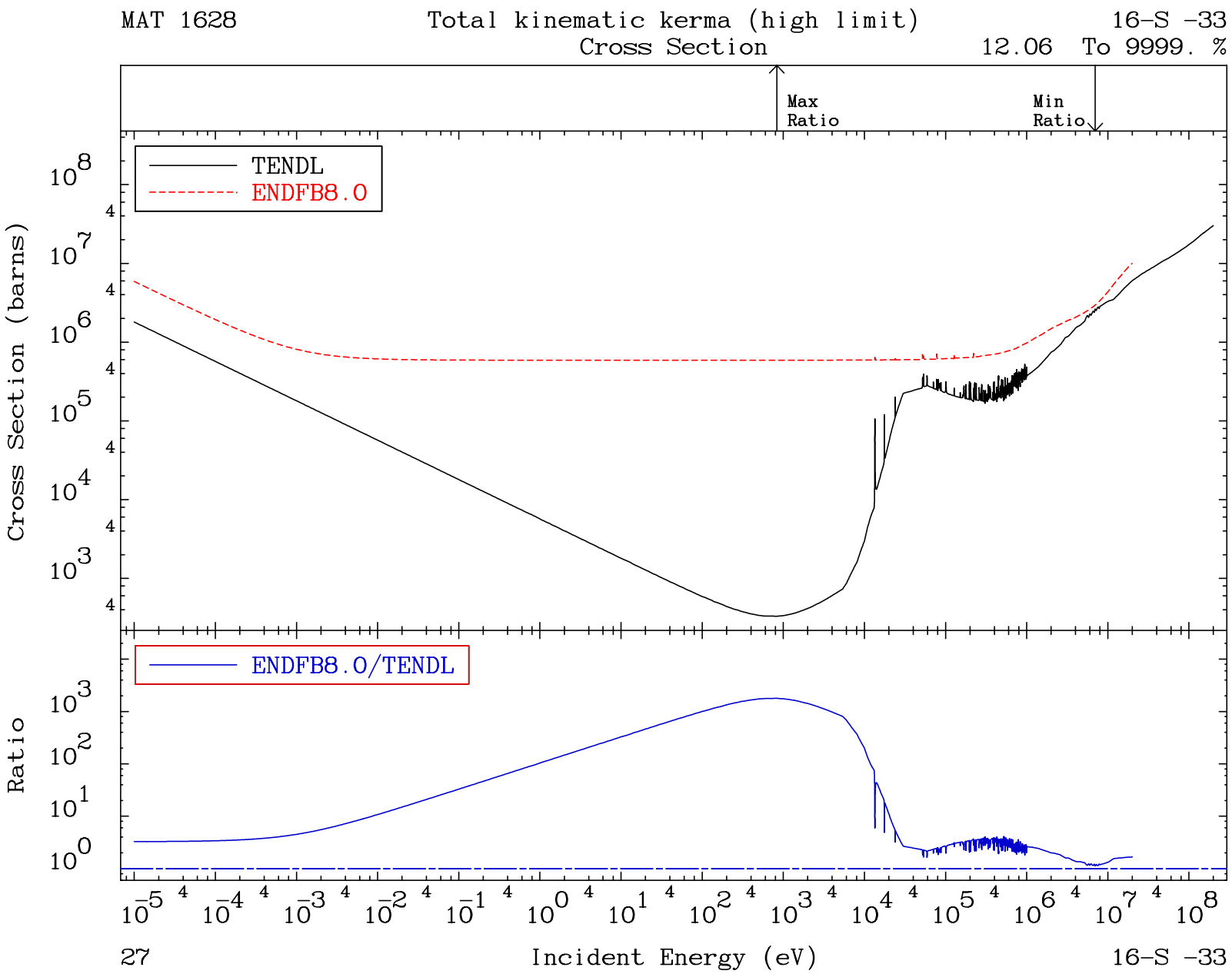

MAT 1628
Kerma non-elastic (all but mt2)
Cross Section
16-S -33
-144.4 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
22
16-S -33

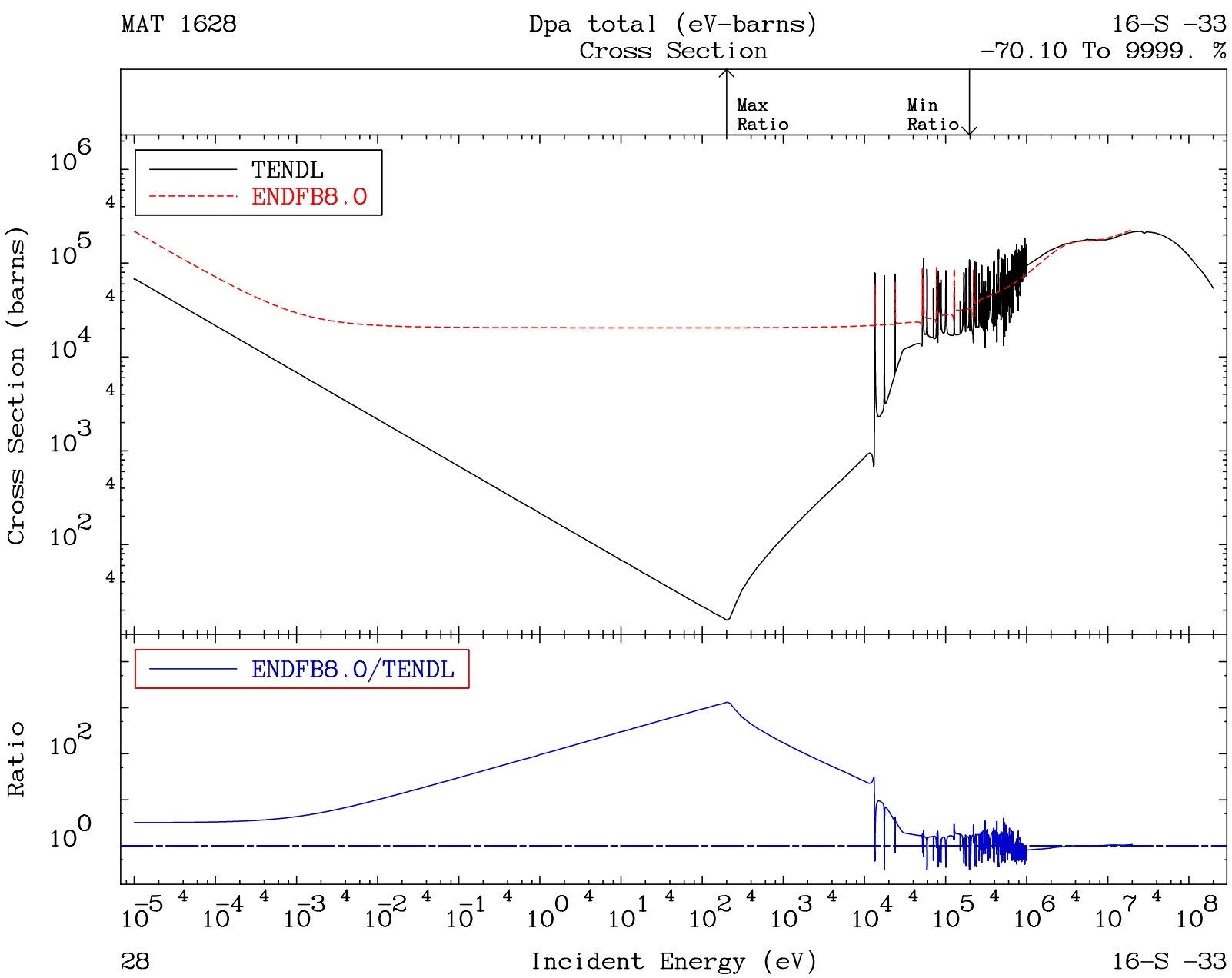

MAT 1628
Kerma inelastic (mt51-91)
Cross Section
16-S -33
-1612. To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 999.38 keV
ENDFB8.0 Threshold 865.70 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
23
16-S -33

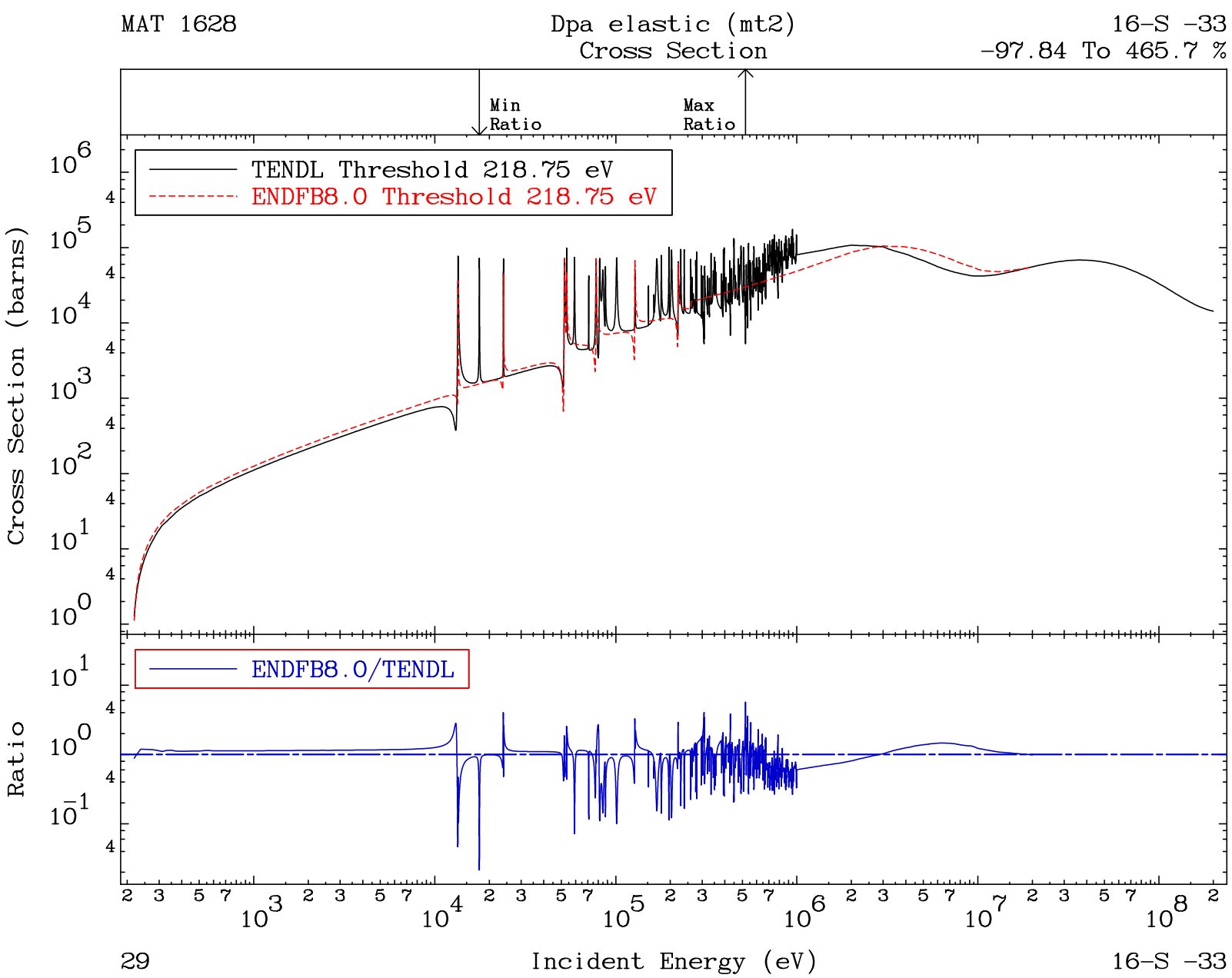

MAT 1628
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
16-S -33
-1612. To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
ENDFB8.0/TENDL
Ratio
2.0
1.0
0.0
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
24
Incident Energy (eV)
16-S -33

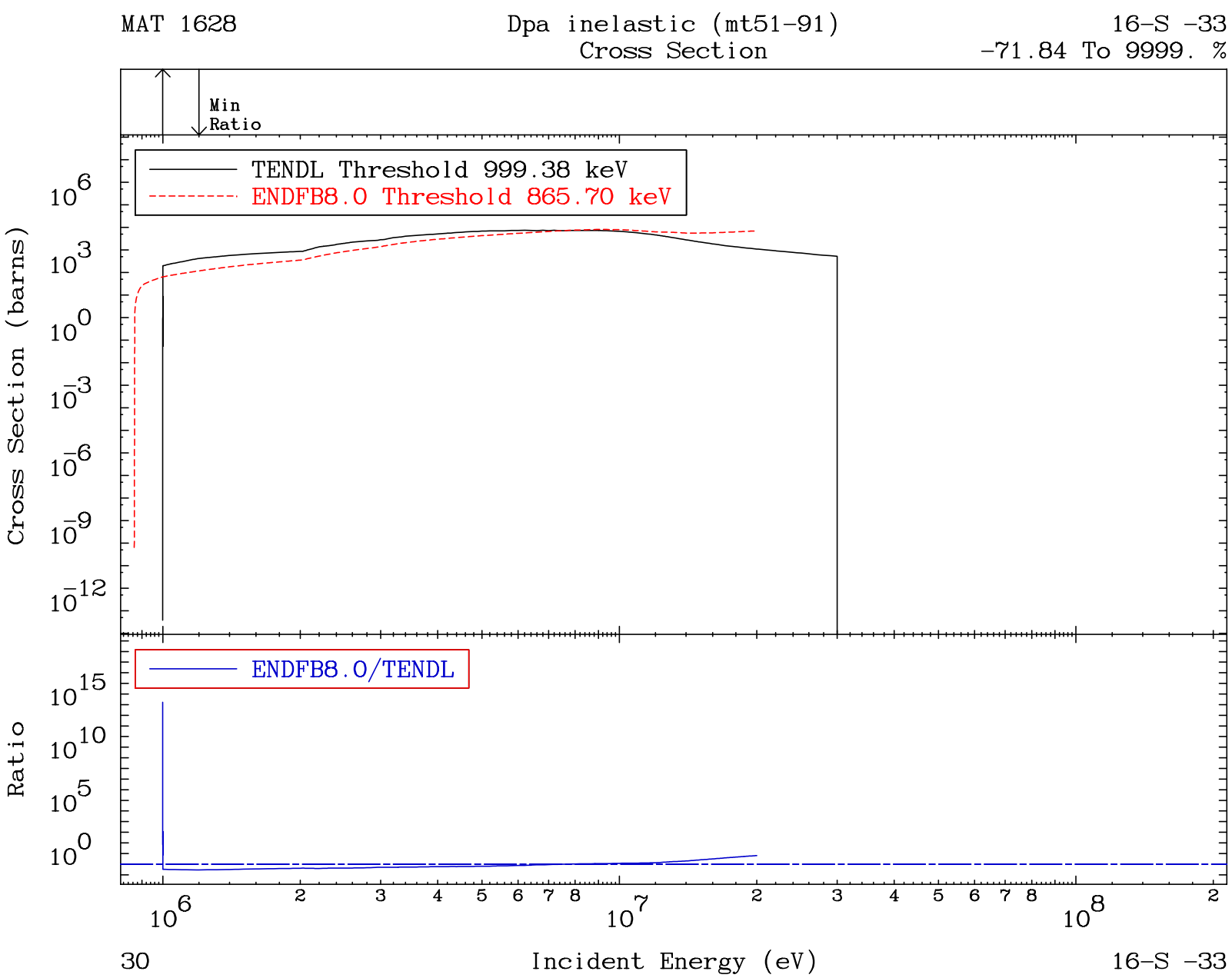

MAT 1628
Kerma capture (mt102)
Cross Section
16-S -33
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
25
16-S -33

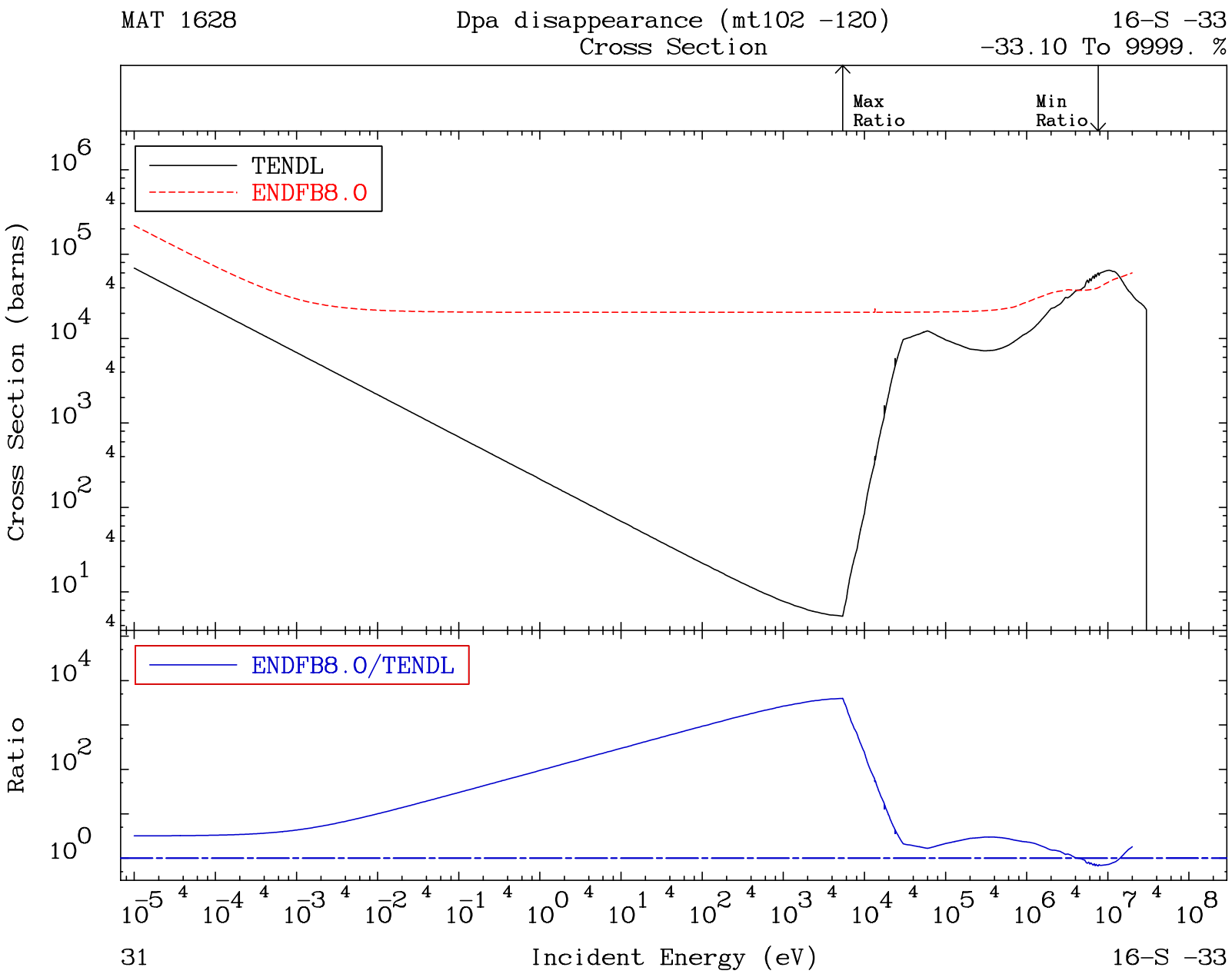

MAT 1628
Total photon (eV-barns)
Cross Section
16-S -33
-100.0 To 2179. %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
26
16-S -33


MAT 1628
Total kinematic kerma (high limit)
Cross Section
16-S -33
12.06 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
27
16-S -33


MAT 1628
Dpa total (eV-barns)
Cross Section
16-S -33
-70.10 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
28
16-S -33


MAT 1628
Dpa elastic (mt2)
Cross Section
16-S -33
-97.84 To 465.7 %
Min Ratio
Max Ratio
TENDL Threshold 218.75 eV
ENDFB8.0 Threshold 218.75 eV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
29
16-S -33


MAT 1628
Dpa inelastic (mt51-91)
Cross Section
16-S -33
-71.84 To 9999. %
Min
Ratio
TENDL Threshold 999.38 keV
ENDFB8.0 Threshold 865.70 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
30
16-S -33


MAT 1628
Dpa disappearance (mt102 -120)
Cross Section
16-S -33
-33.10 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
31
16-S -33