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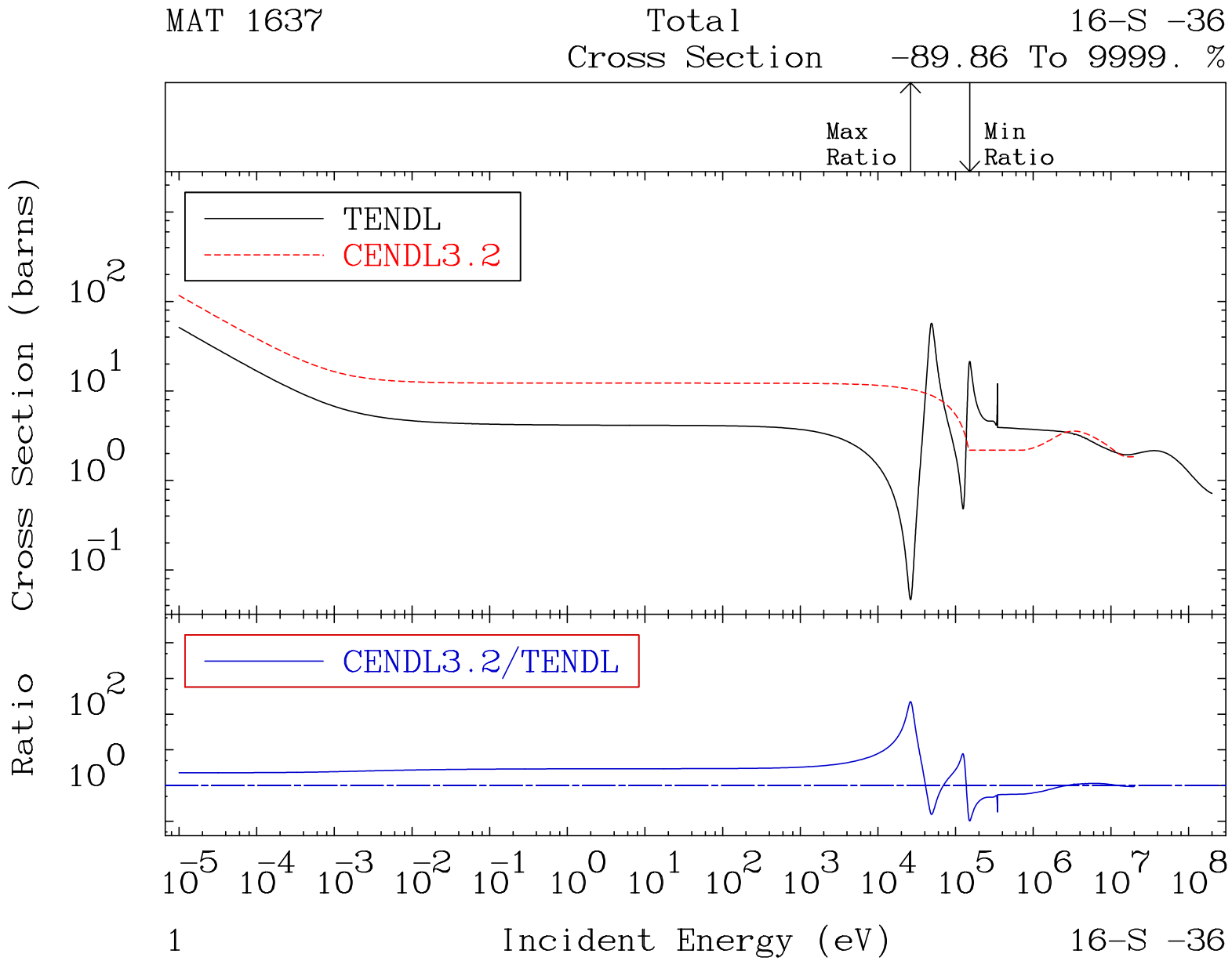
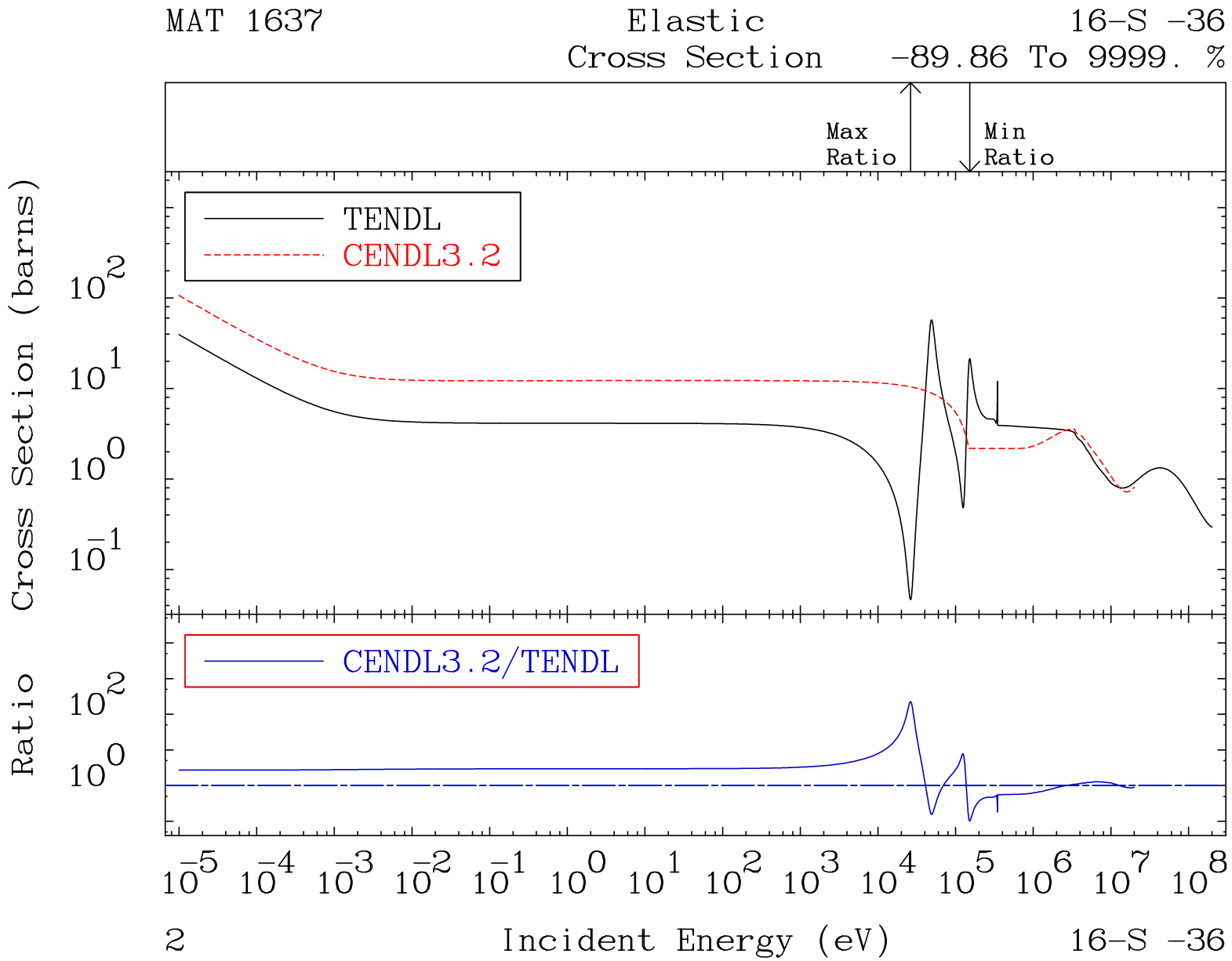
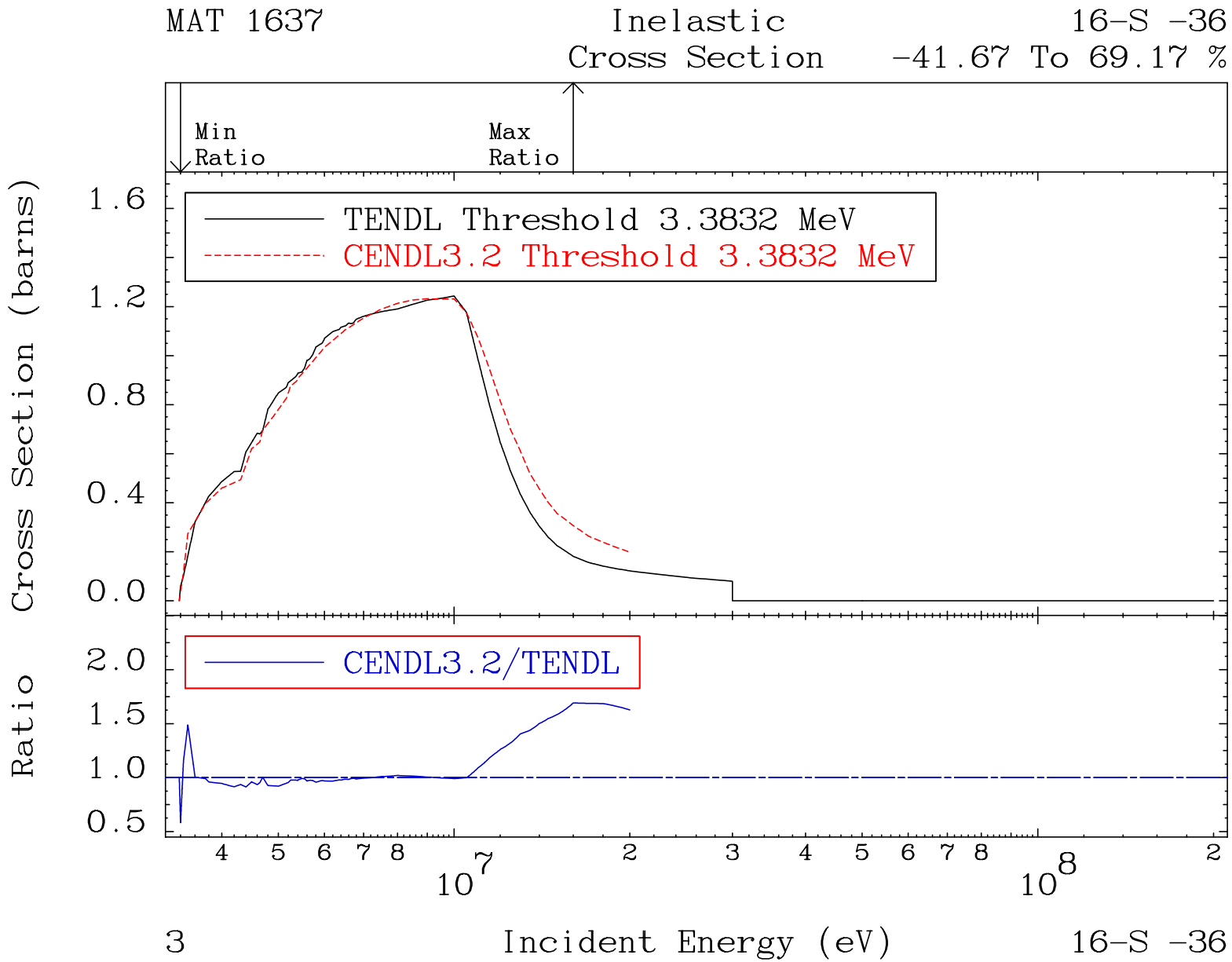
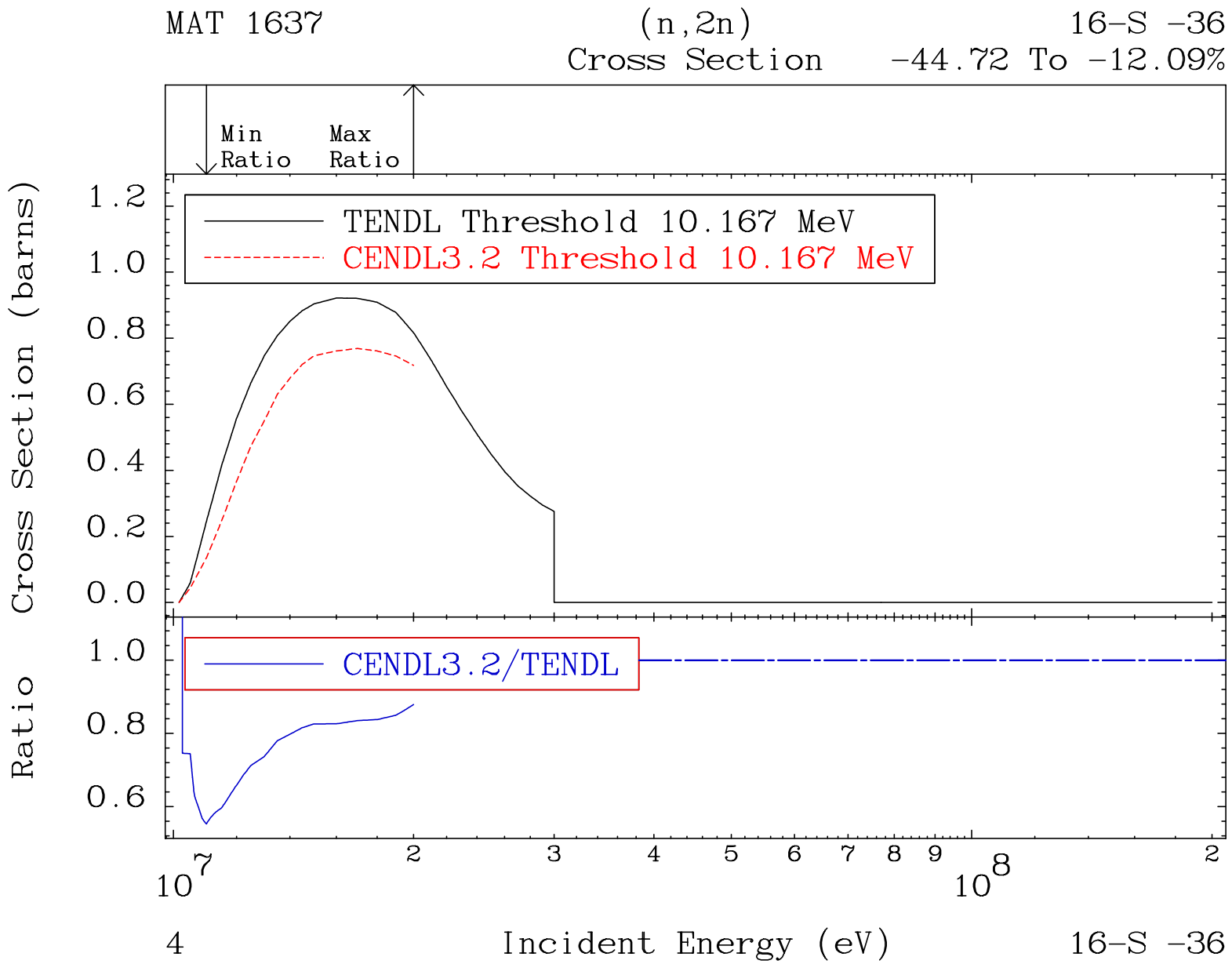
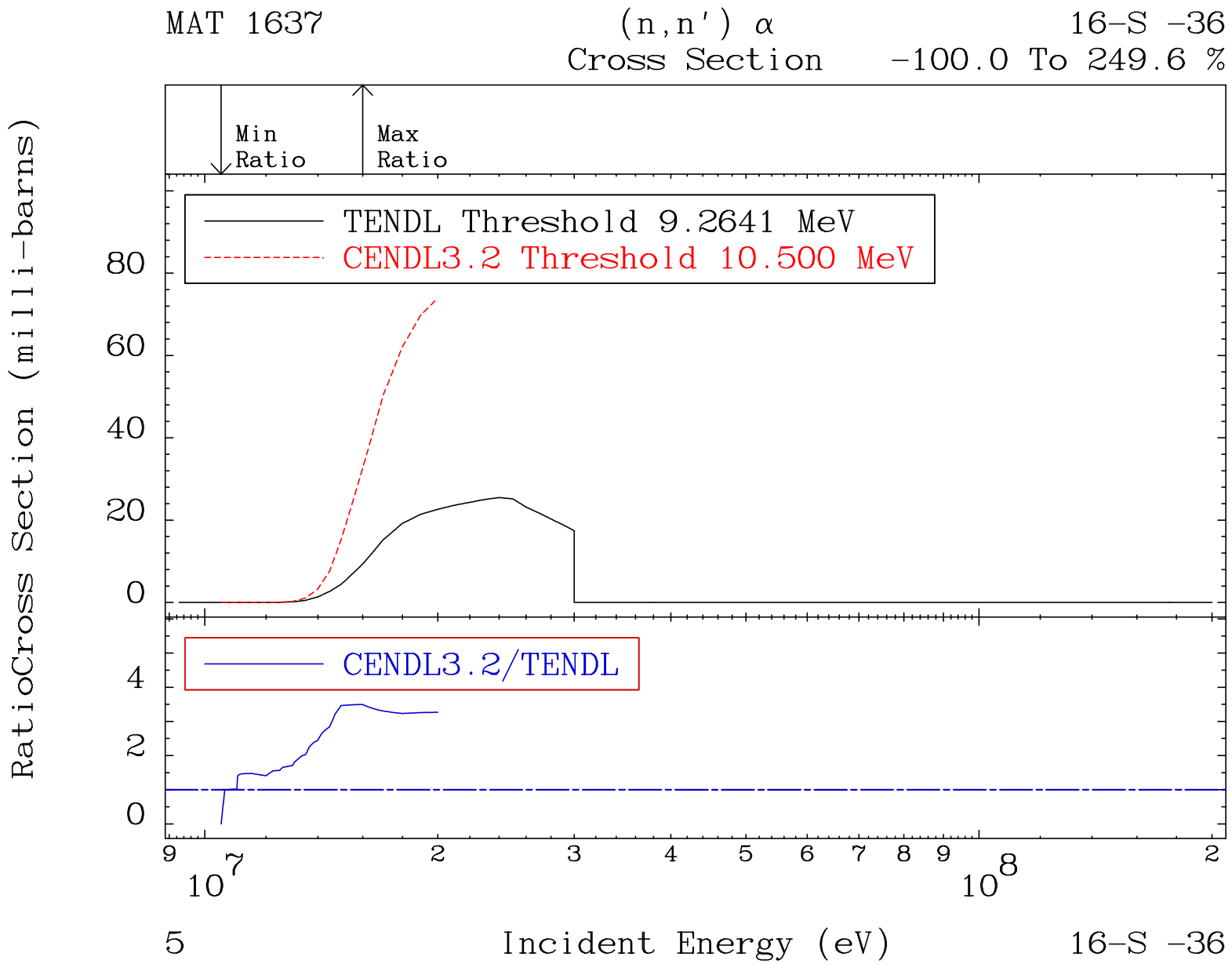
Press Mouse Button to Start

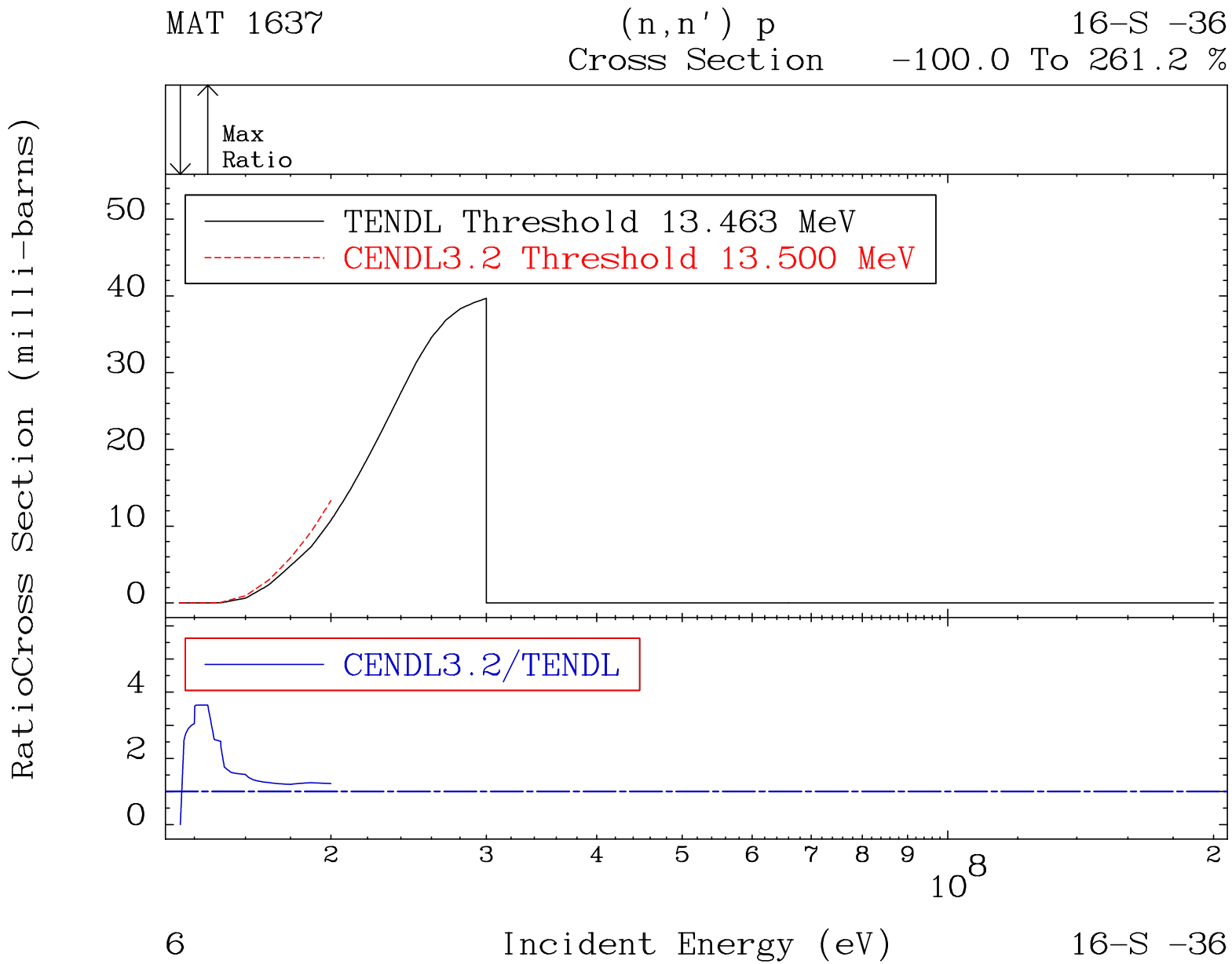

MAT 1637
Total
Cross Section
16-S -36
-89.86 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
16-S -36
1

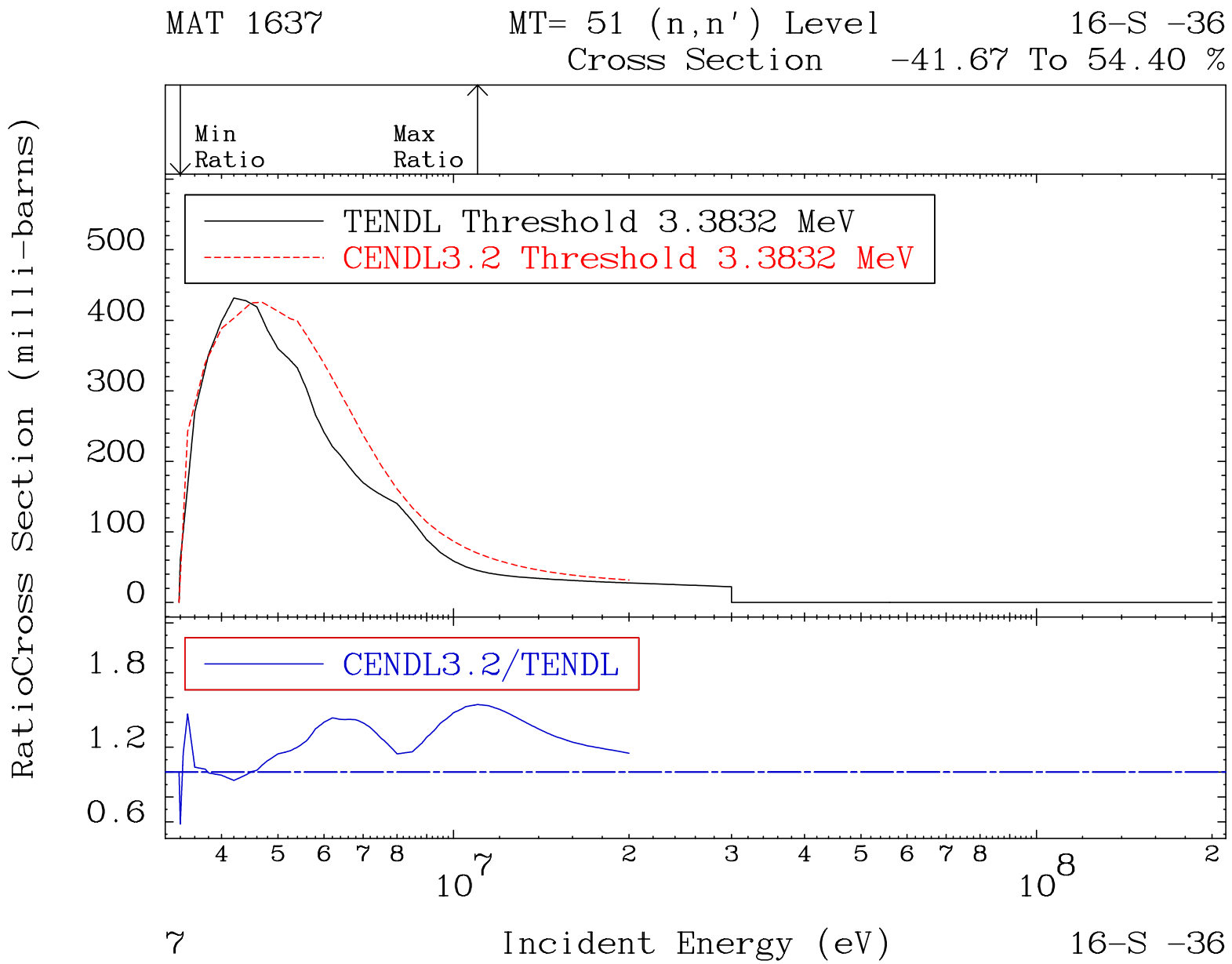

MAT 1637
Elastic
Cross Section
16-S -36
-89.86 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
16-S -36

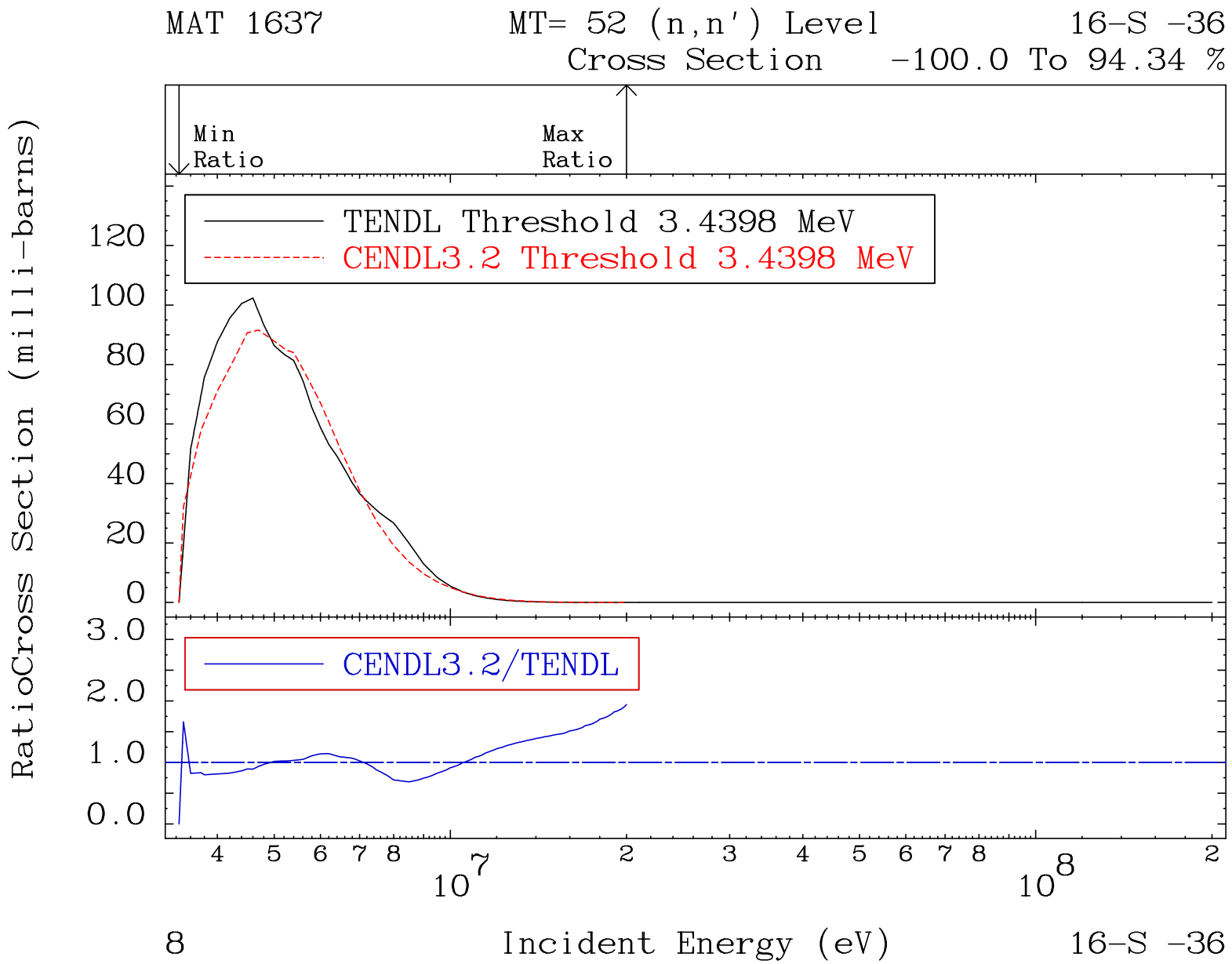

MAT 1637
Inelastic
Cross Section
16-S -36
-41.67 To 69.17 %
Min Ratio
Max Ratio
TENDL Threshold 3.3832 MeV
CENDL3.2 Threshold 3.3832 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
2.0
1.5
1.0
0.5
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
16-S -36

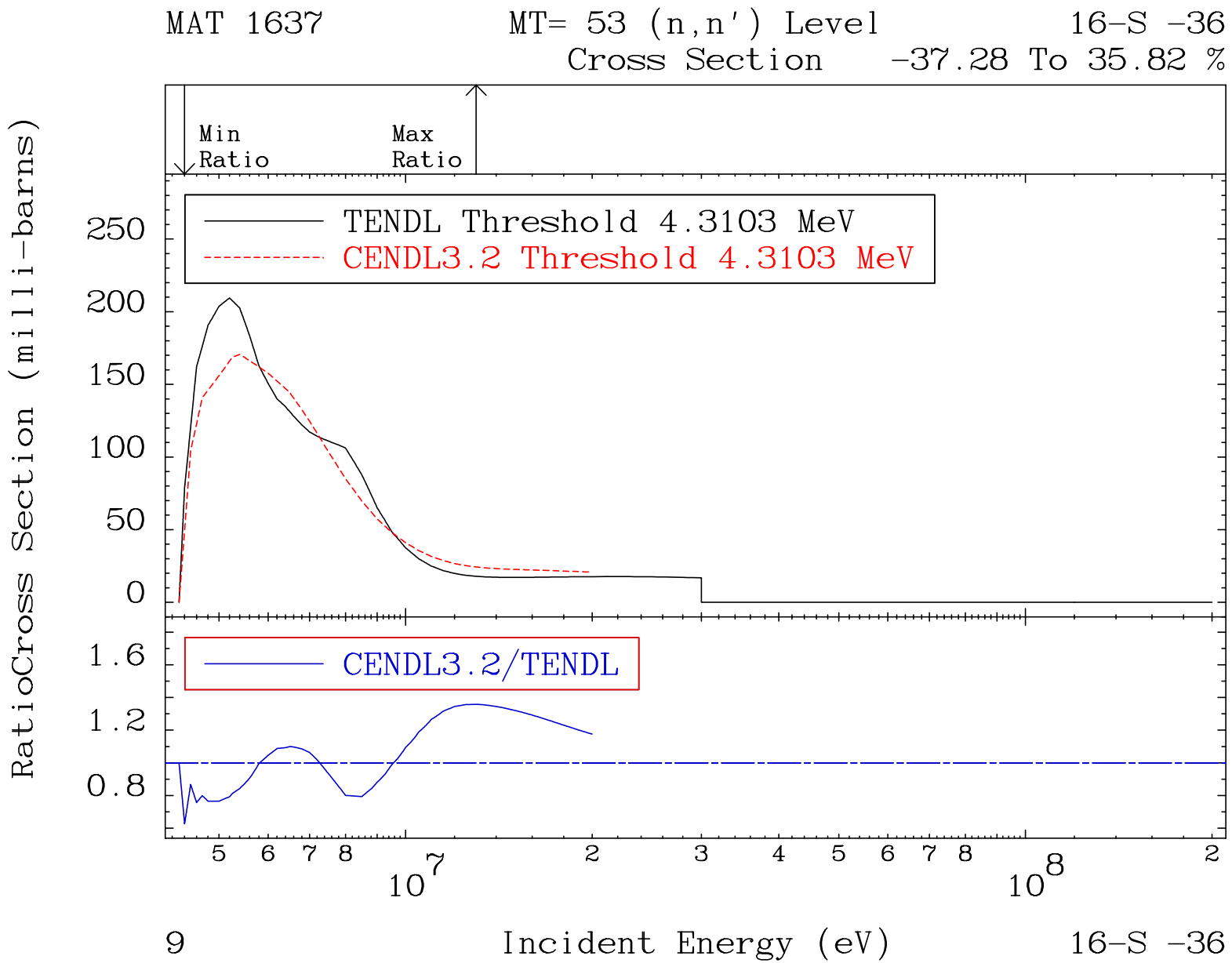

MAT 1637
(n,2n)
Cross Section
16-S -36
-44.72 To -12.09%
Min Ratio
Max Ratio
TENDL Threshold 10.167 MeV
CENDL3.2 Threshold 10.167 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.0
0.8
0.6
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
16-S -36

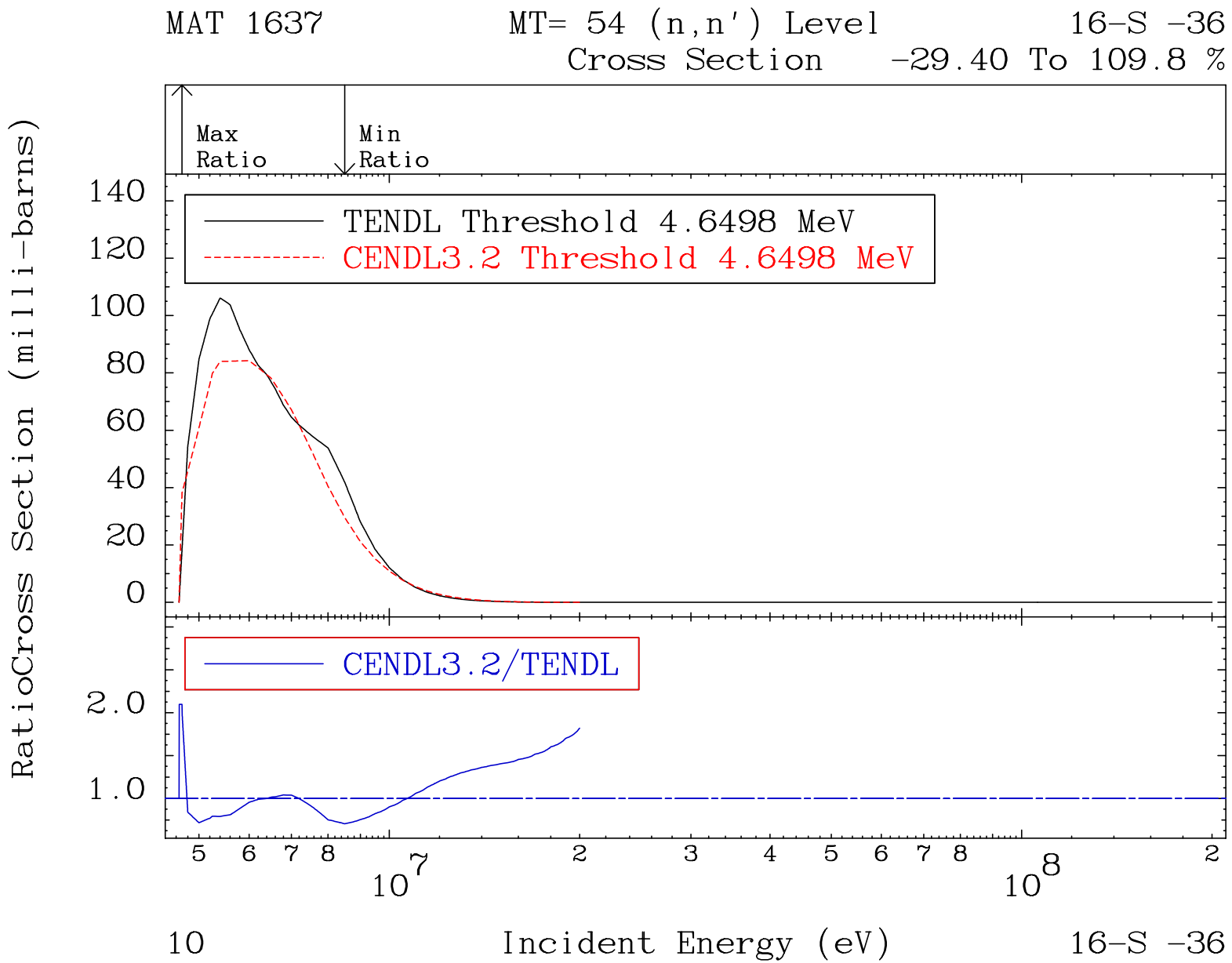

MAT 1637
(n,n') α
Cross Section
16-S -36
-100.0 To 249.6 %
Min Ratio
Max Ratio
TENDL Threshold 9.2641 MeV
CENDL3.2 Threshold 10.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
16-S -36

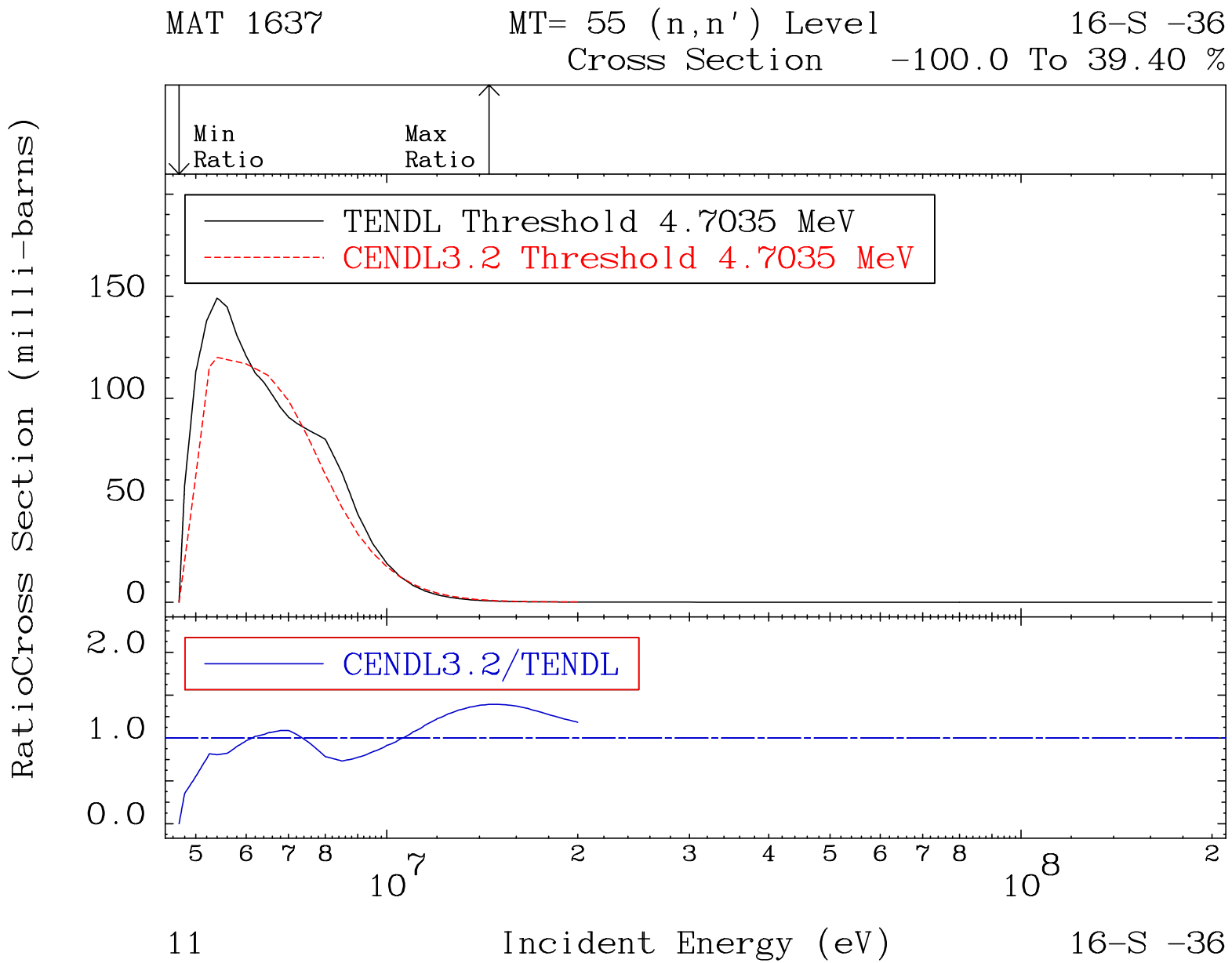

MAT 1637
(n,n') p
Cross Section
16-S -36
-100.0 To 261.2 %
Max
Ratio
TENDL Threshold 13.463 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
16-S -36

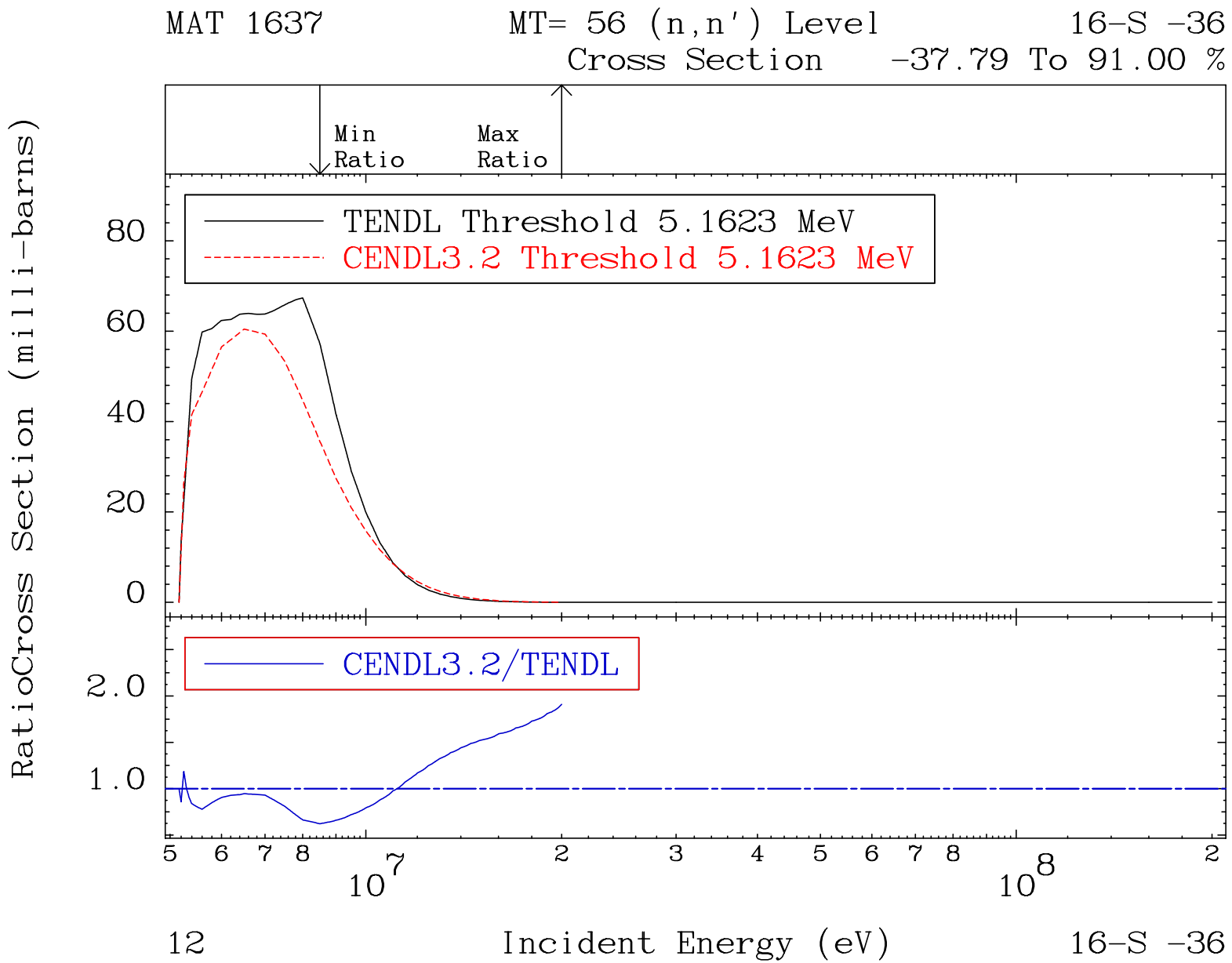

MAT 1637
MT= 51 (n,n') Level
16-S -36
Cross Section -41.67 To 54.40 %
Min Ratio
Max Ratio
TENDL Threshold 3.3832 MeV
CENDL3.2 Threshold 3.3832 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
1.8
1.2
0.6
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
16-S -36

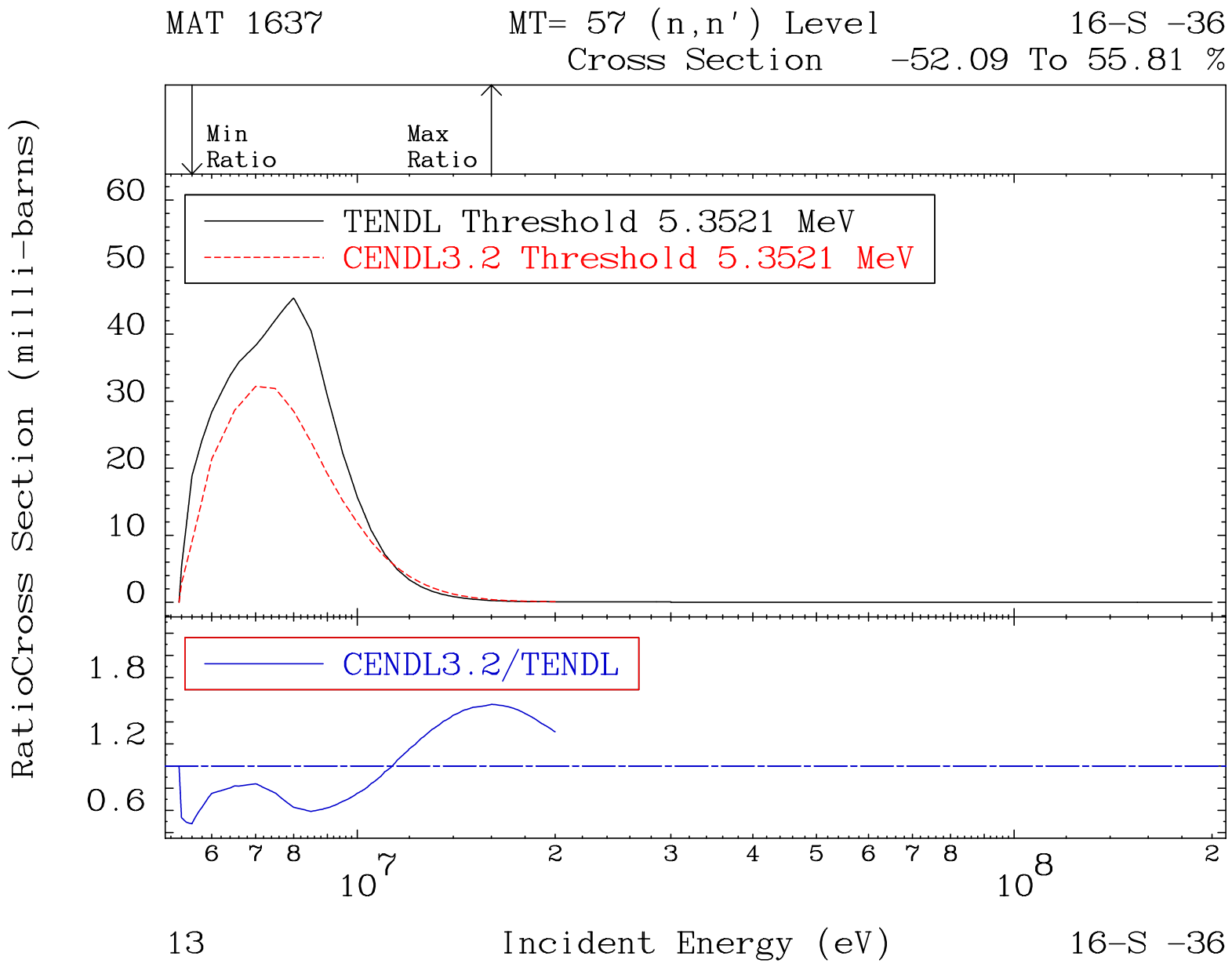

MAT 1637
MT= 52 (n,n') Level
16-S -36
Cross Section -100.0 To 94.34 %
Min Ratio
Max Ratio
TENDL Threshold 3.4398 MeV
CENDL3.2 Threshold 3.4398 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
3.0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
16-S -36

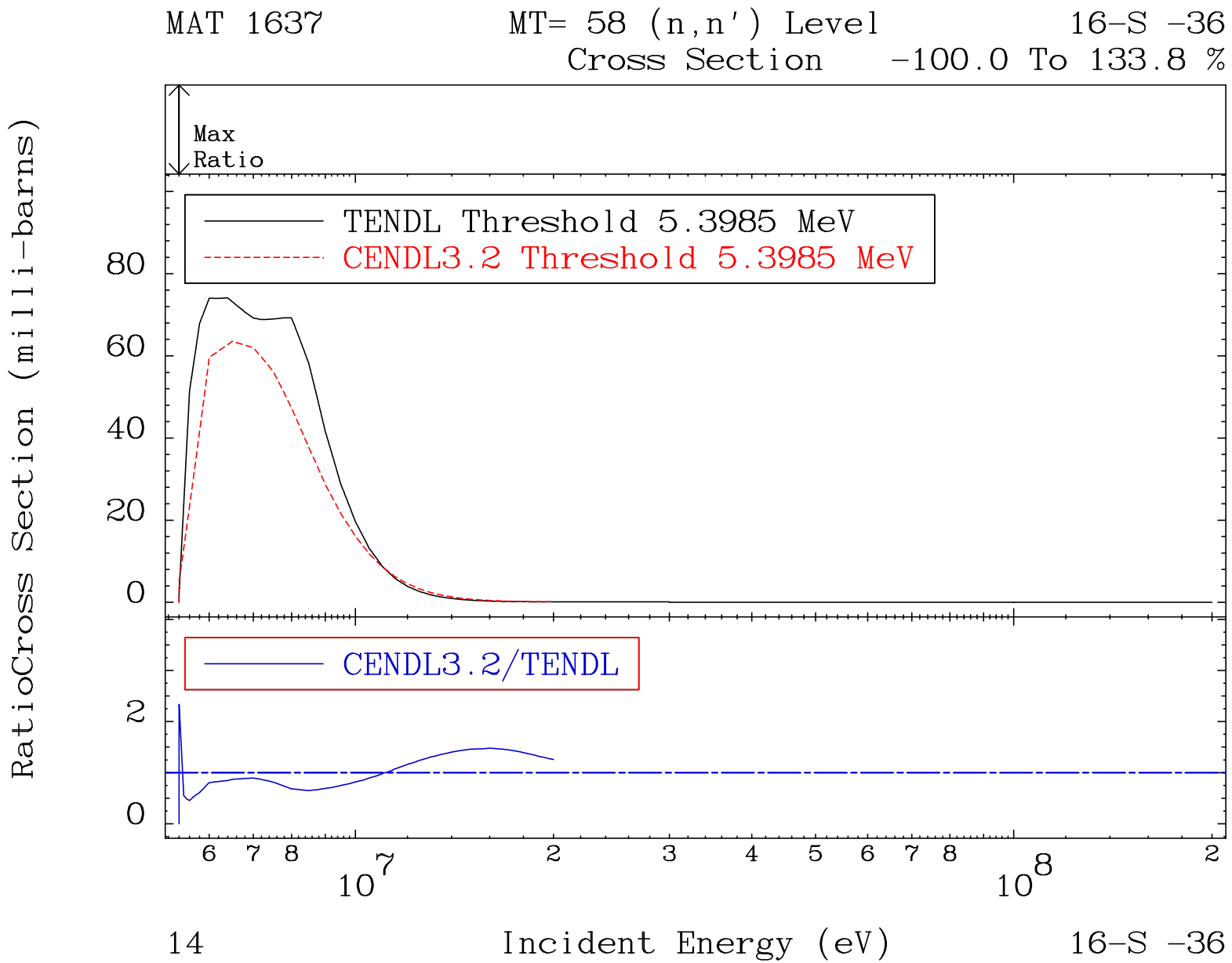

MAT 1637
MT= 53 (n,n') Level
16-S -36
Cross Section -37.28 To 35.82 %
Min Ratio
Max Ratio
TENDL Threshold 4.3103 MeV
CENDL3.2 Threshold 4.3103 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.6
1.2
0.8
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
16-S -36

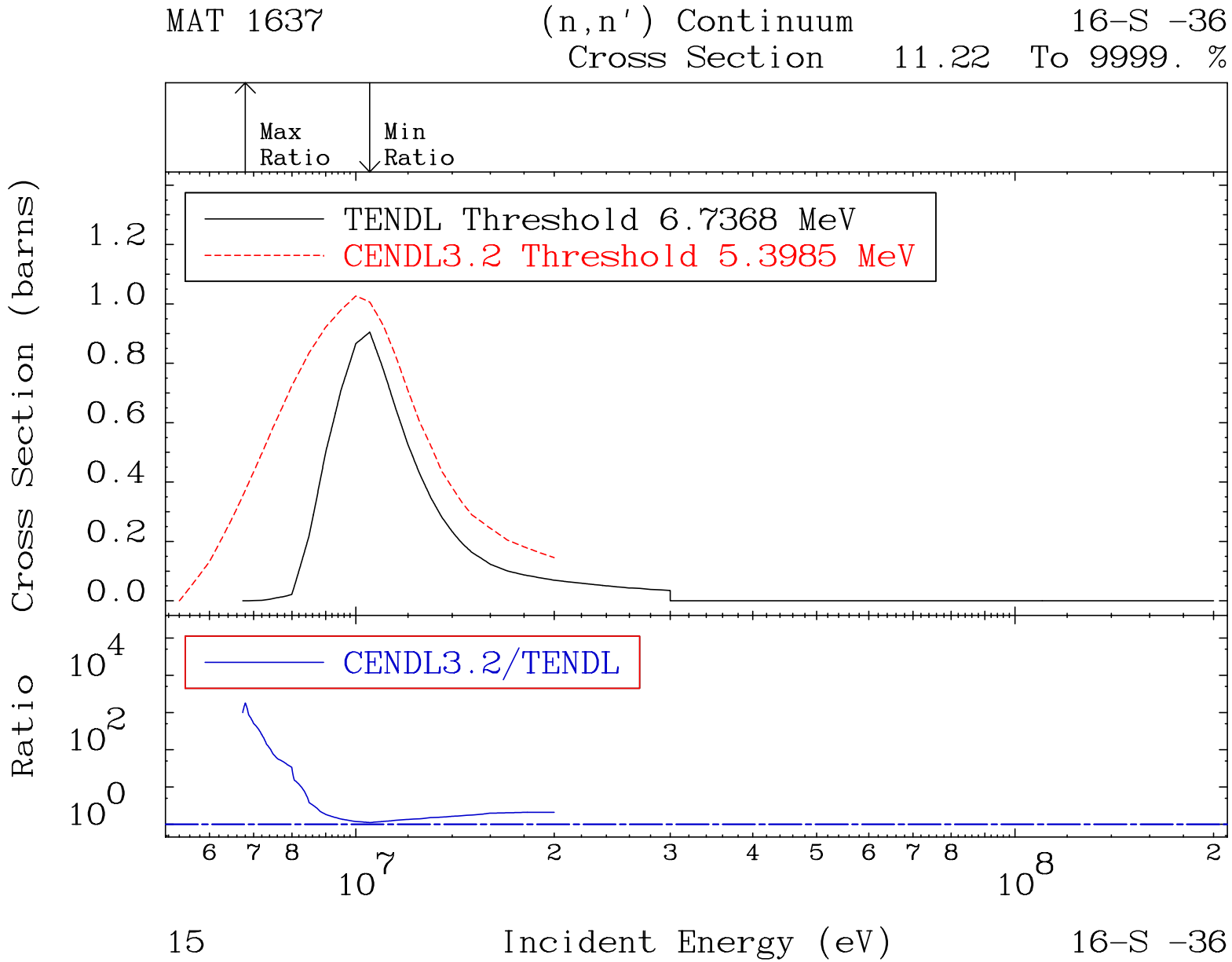

MAT 1637
MT= 54 (n,n') Level
16-S -36
Cross Section -29.40 To 109.8 %
Max Ratio
Min Ratio
TENDL Threshold 4.6498 MeV
CENDL3.2 Threshold 4.6498 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
2.0
1.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
16-S -36

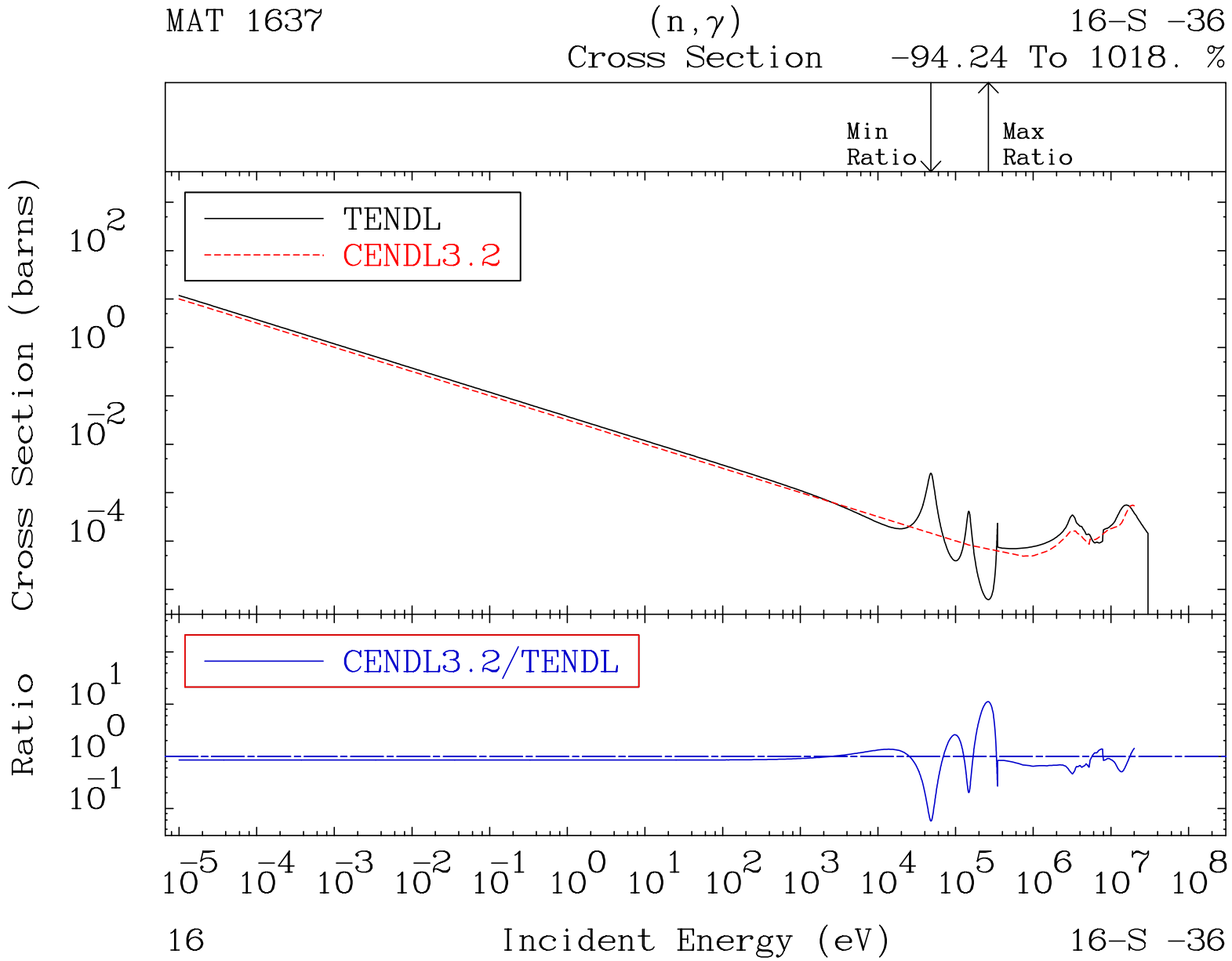

MAT 1637
MT= 55 (n,n') Level
16-S -36
Cross Section
-100.0 To 39.40 %
Min Ratio
Max Ratio
TENDL Threshold 4.7035 MeV
CENDL3.2 Threshold 4.7035 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
16-S -36

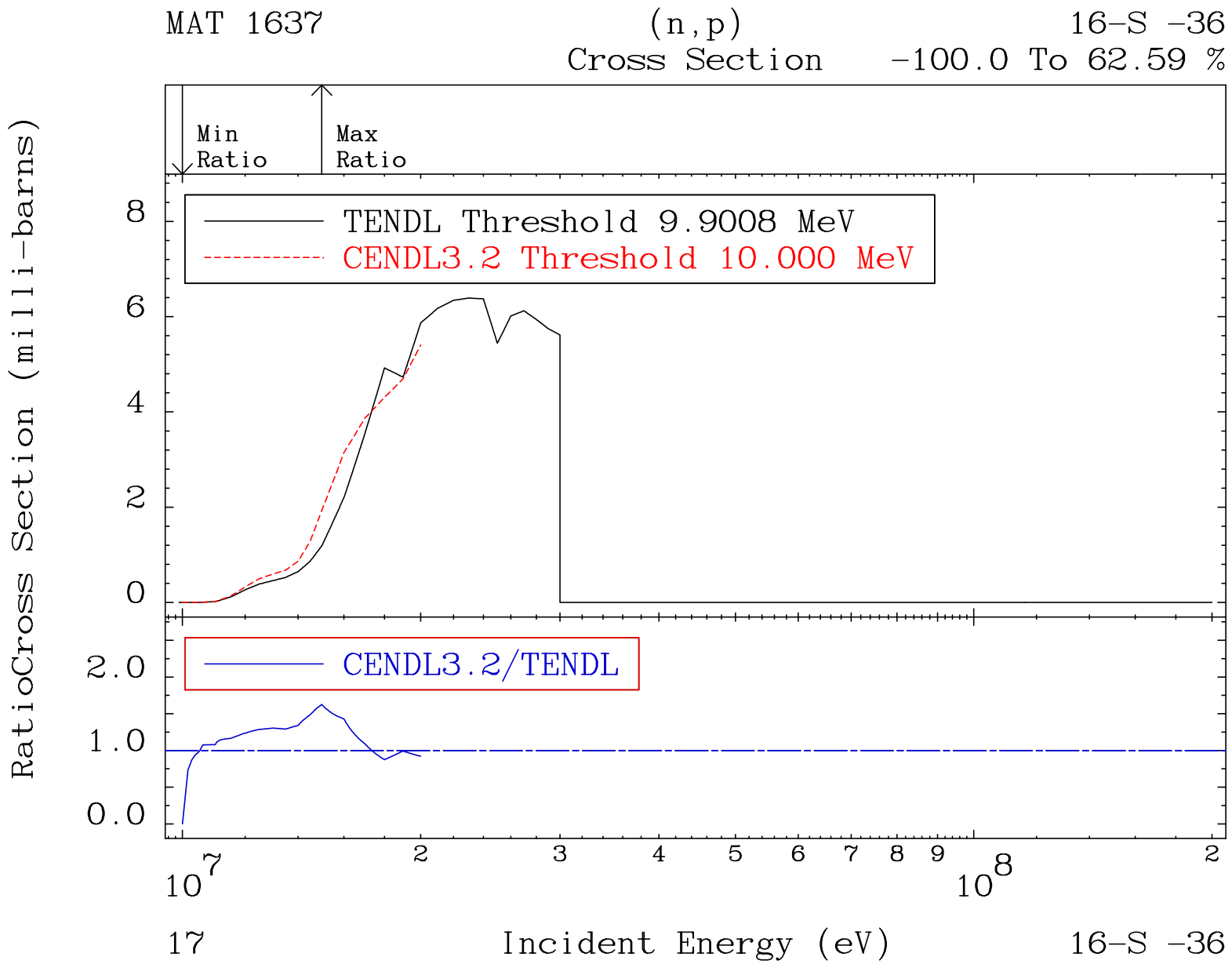

MAT 1637
MT= 56 (n,n') Level
16-S -36
Cross Section -37.79 To 91.00 %
Min Ratio
Max Ratio
TENDL Threshold 5.1623 MeV
CENDL3.2 Threshold 5.1623 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
16-S -36

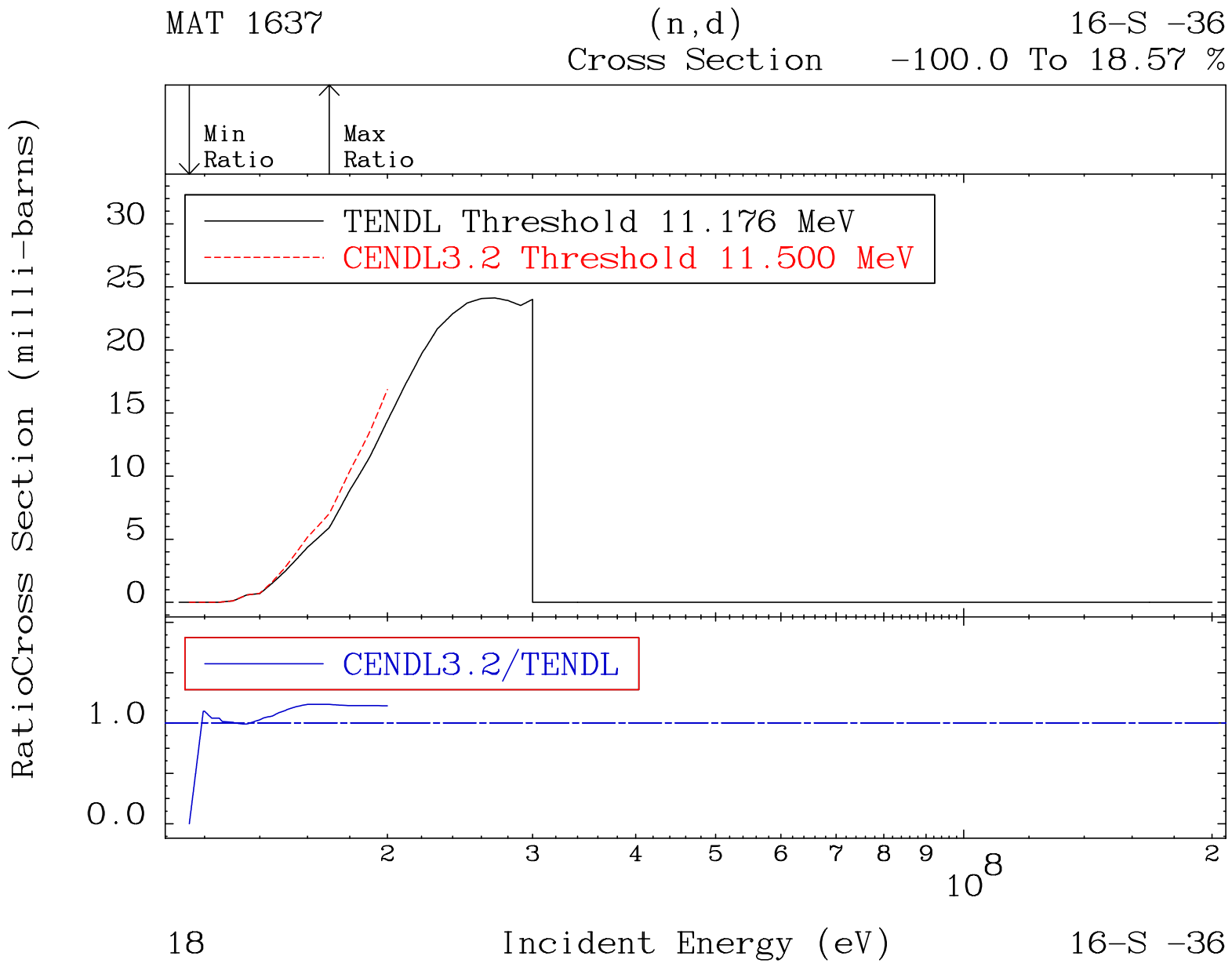

MAT 1637
MT= 57 (n,n') Level
16-S -36
Cross Section -52.09 To 55.81 %
Min Ratio
Max Ratio
TENDL Threshold 5.3521 MeV
CENDL3.2 Threshold 5.3521 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.8
1.2
0.6
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
16-S -36

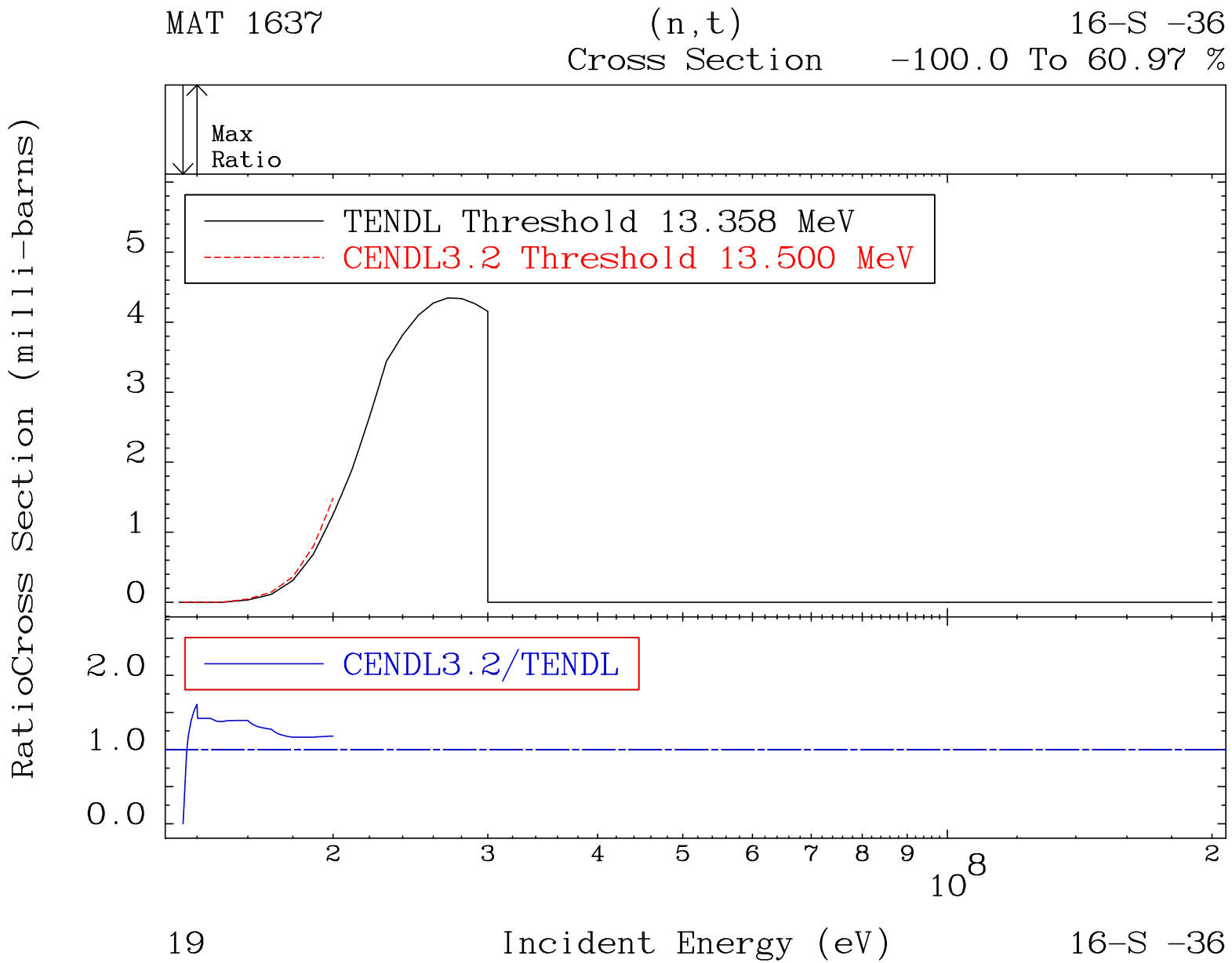

MAT 1637
MT= 58 (n,n') Level
16-S -36
Cross Section -100.0 To 133.8 %
Max
Ratio
TENDL Threshold 5.3985 MeV
CENDL3.2 Threshold 5.3985 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
16-S -36

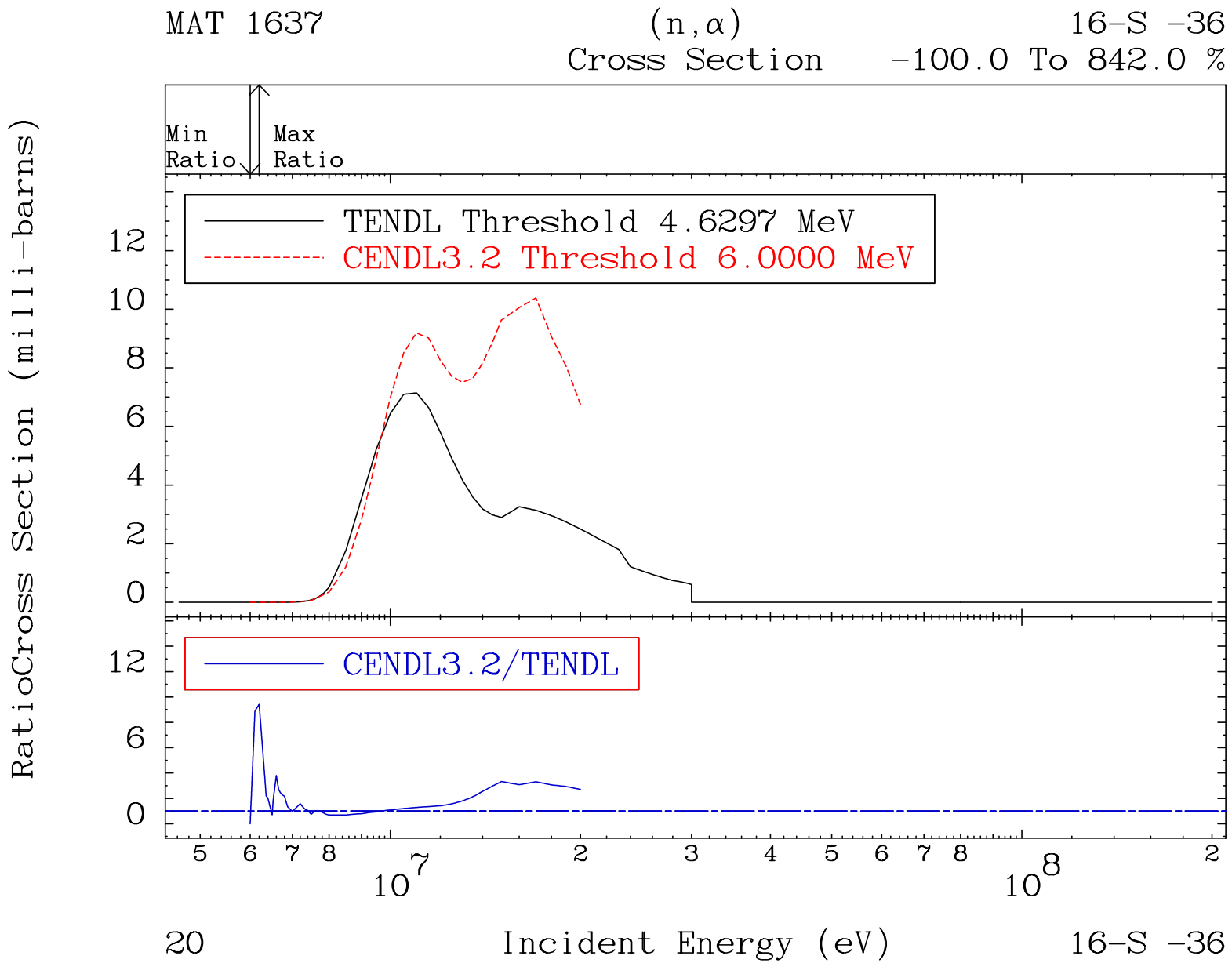

MAT 1637
(n,n') Continuum
Cross Section
16-S -36
11.22 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.7368 MeV
CENDL3.2 Threshold 5.3985 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
10^4
10^2
10^0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
16-S -36

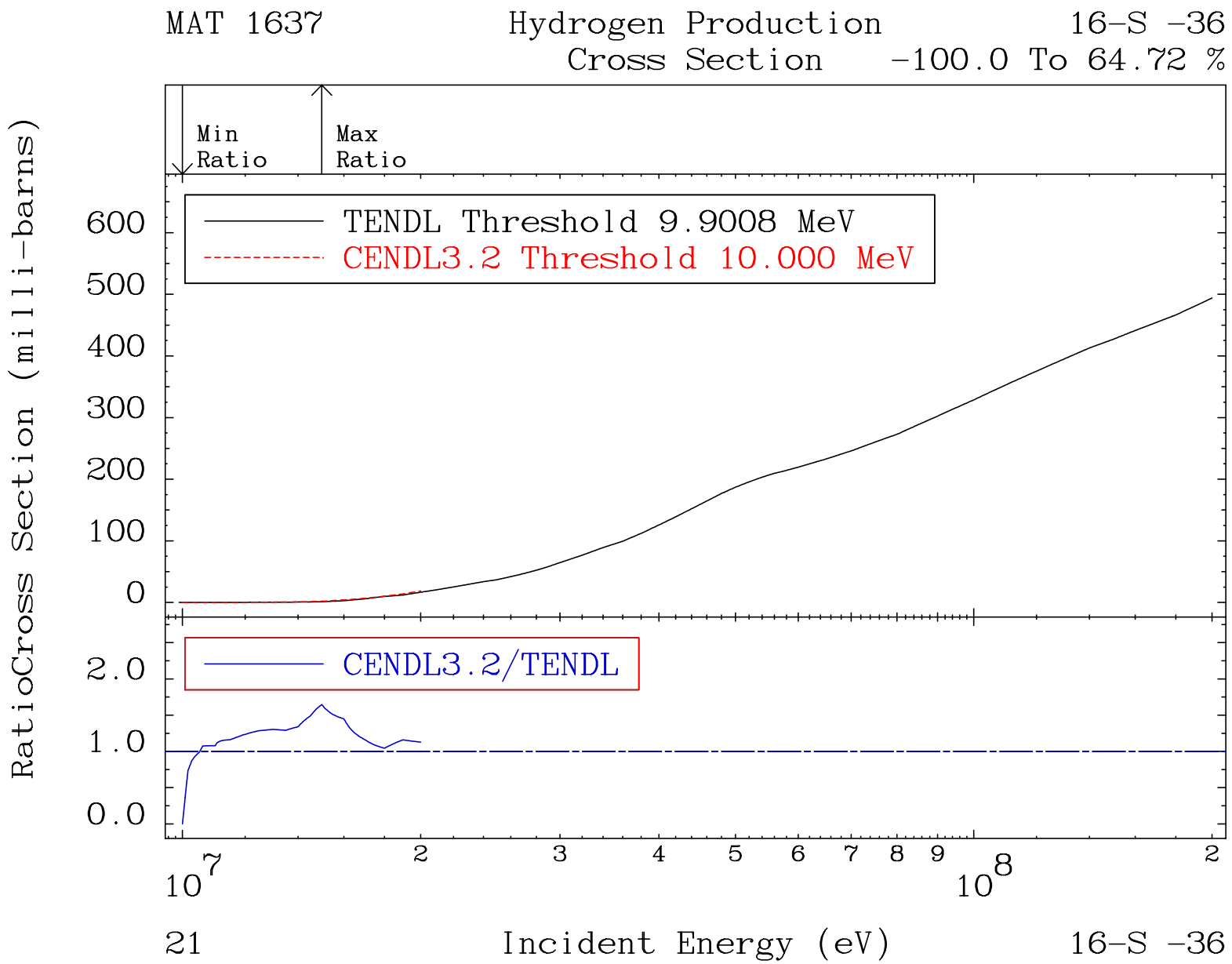

MAT 1637
(n,γ)
16-S -36
Cross Section
-94.24 To 1018. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
16
16-S -36

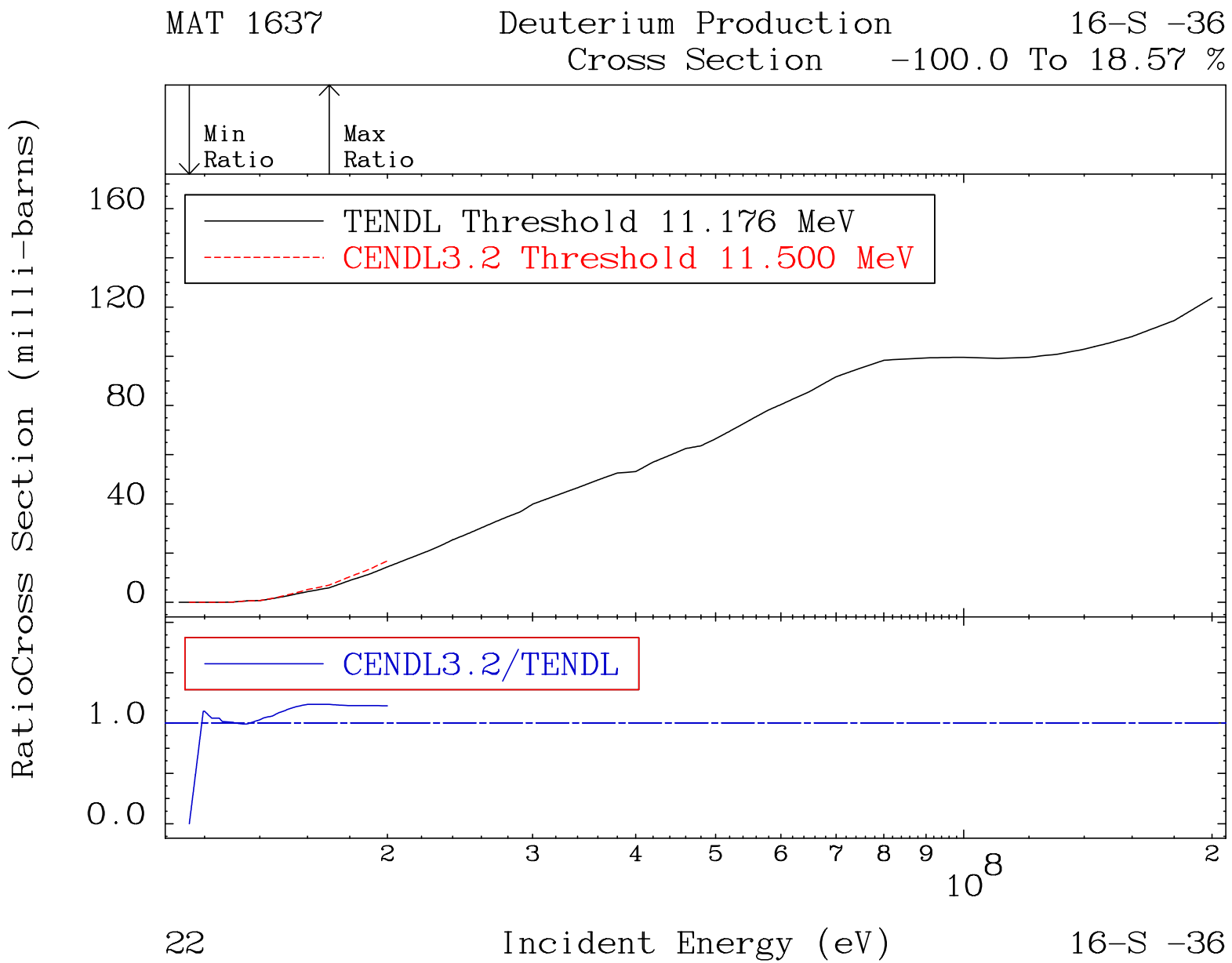

MAT 1637
(n,p)
16-S -36
Cross Section
-100.0 To 62.59 %
Min Ratio
Max Ratio
TENDL Threshold 9.9008 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
17
16-S -36

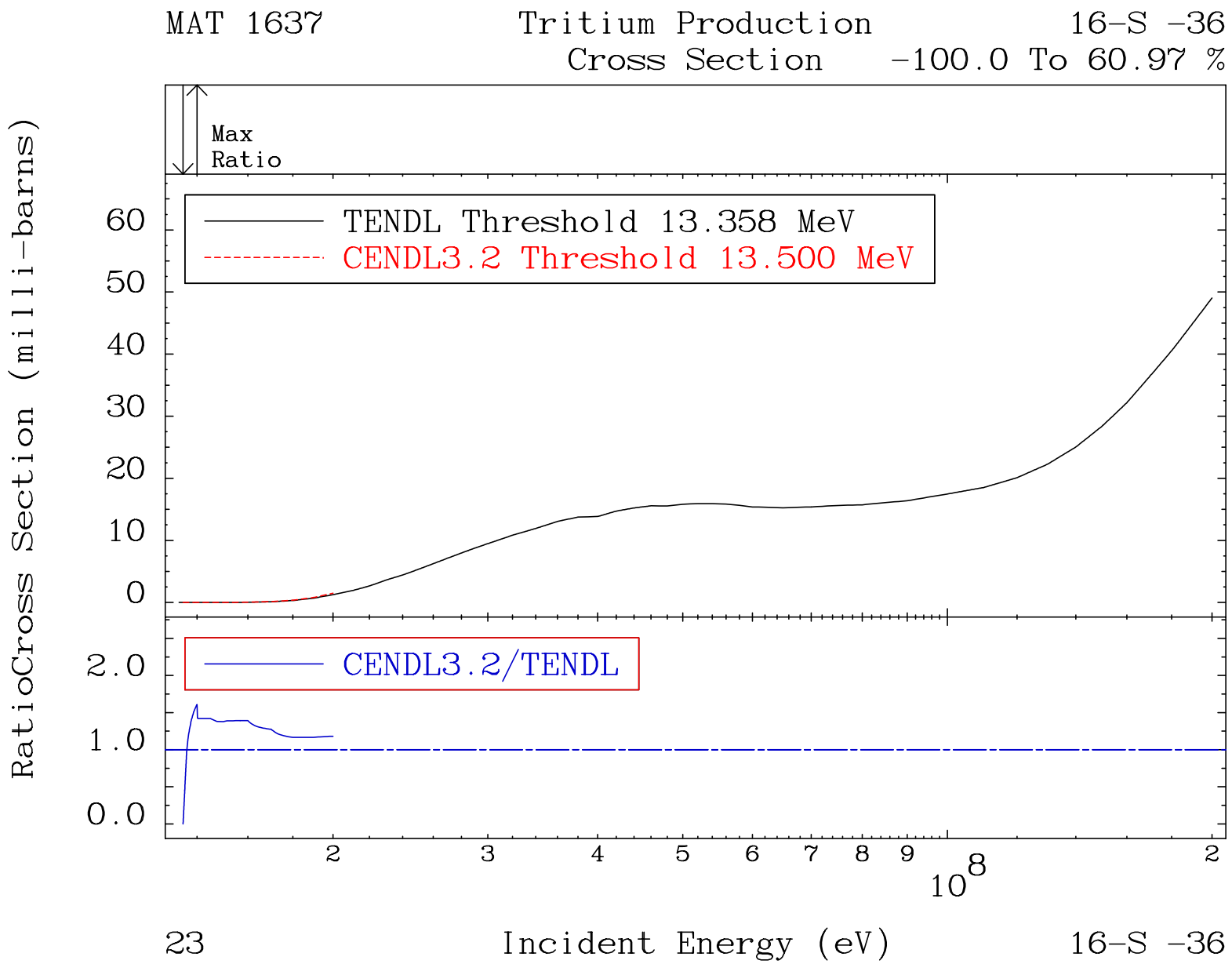

MAT 1637
(n,d)
16-S -36
Cross Section
-100.0 To 18.57 %
Min Ratio
Max Ratio
TENDL Threshold 11.176 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
16-S -36

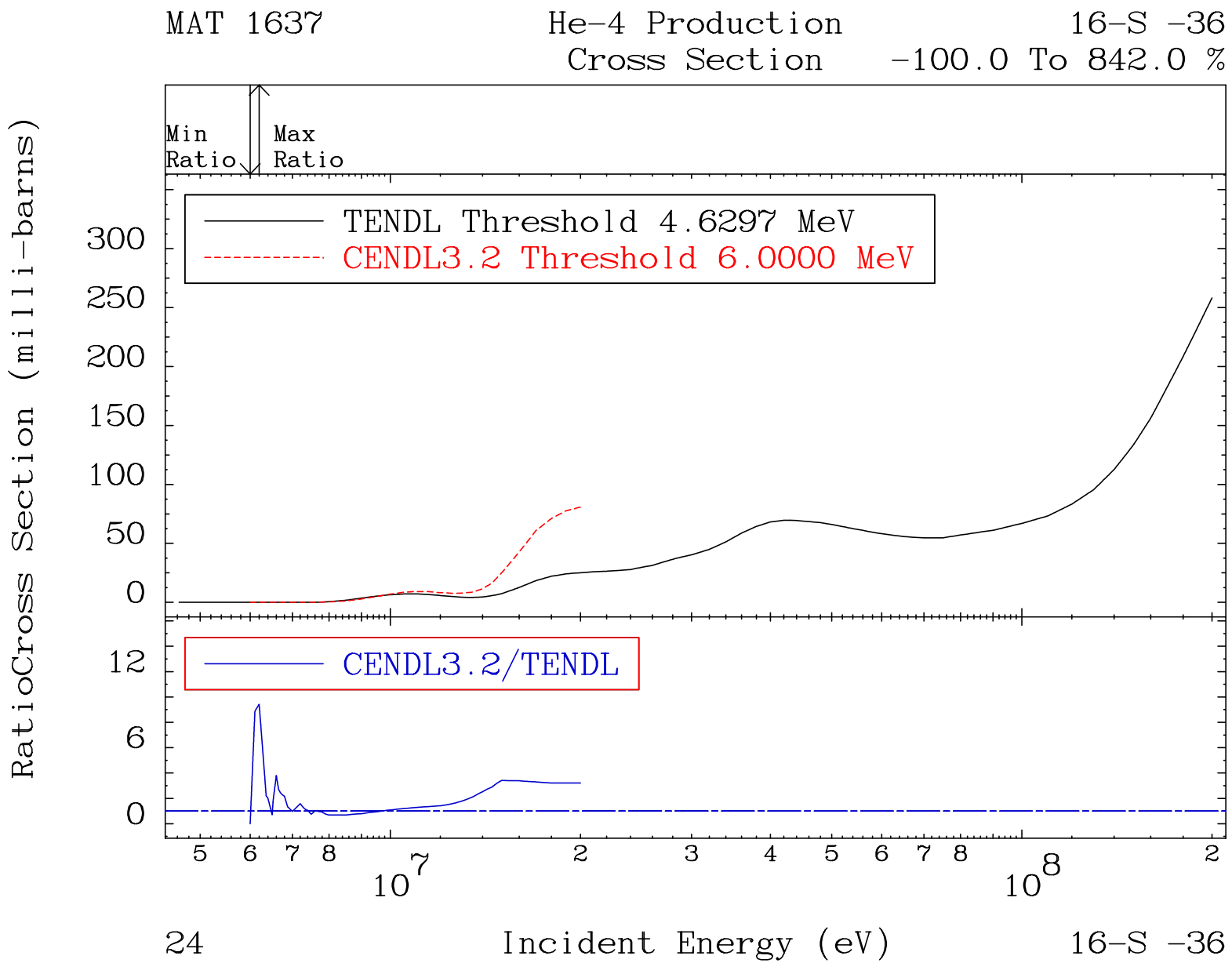

MAT 1637
(n,t)
16-S -36
Cross Section
-100.0 To 60.97 %
Max
Ratio
TENDL Threshold 13.358 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
0.0
1.0
2.0
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
16-S -36

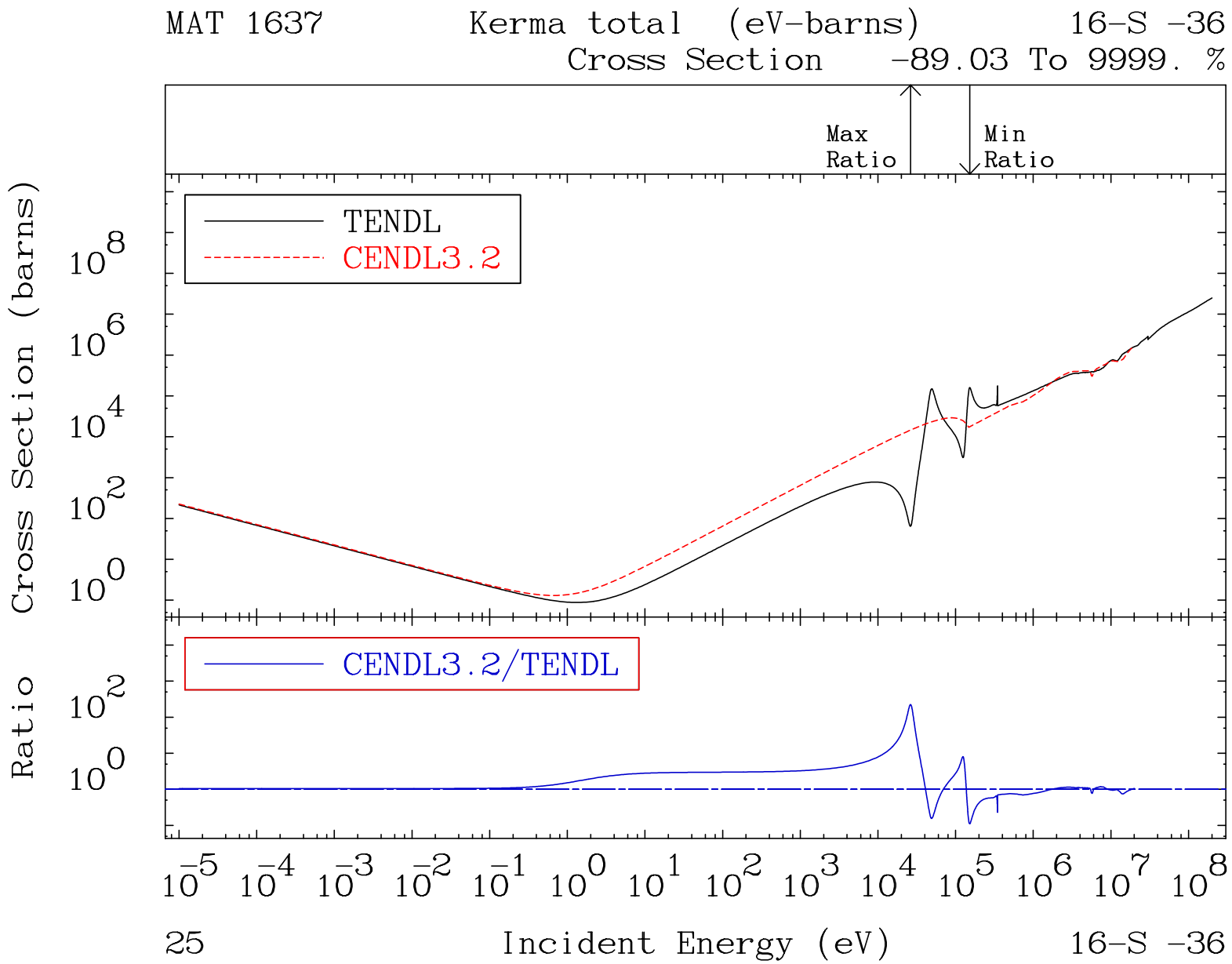

MAT 1637
(n,α)
16-S -36
Cross Section
-100.0 To 842.0 %
Min Ratio
Max Ratio
TENDL Threshold 4.6297 MeV
CENDL3.2 Threshold 6.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
12
6
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
16-S -36

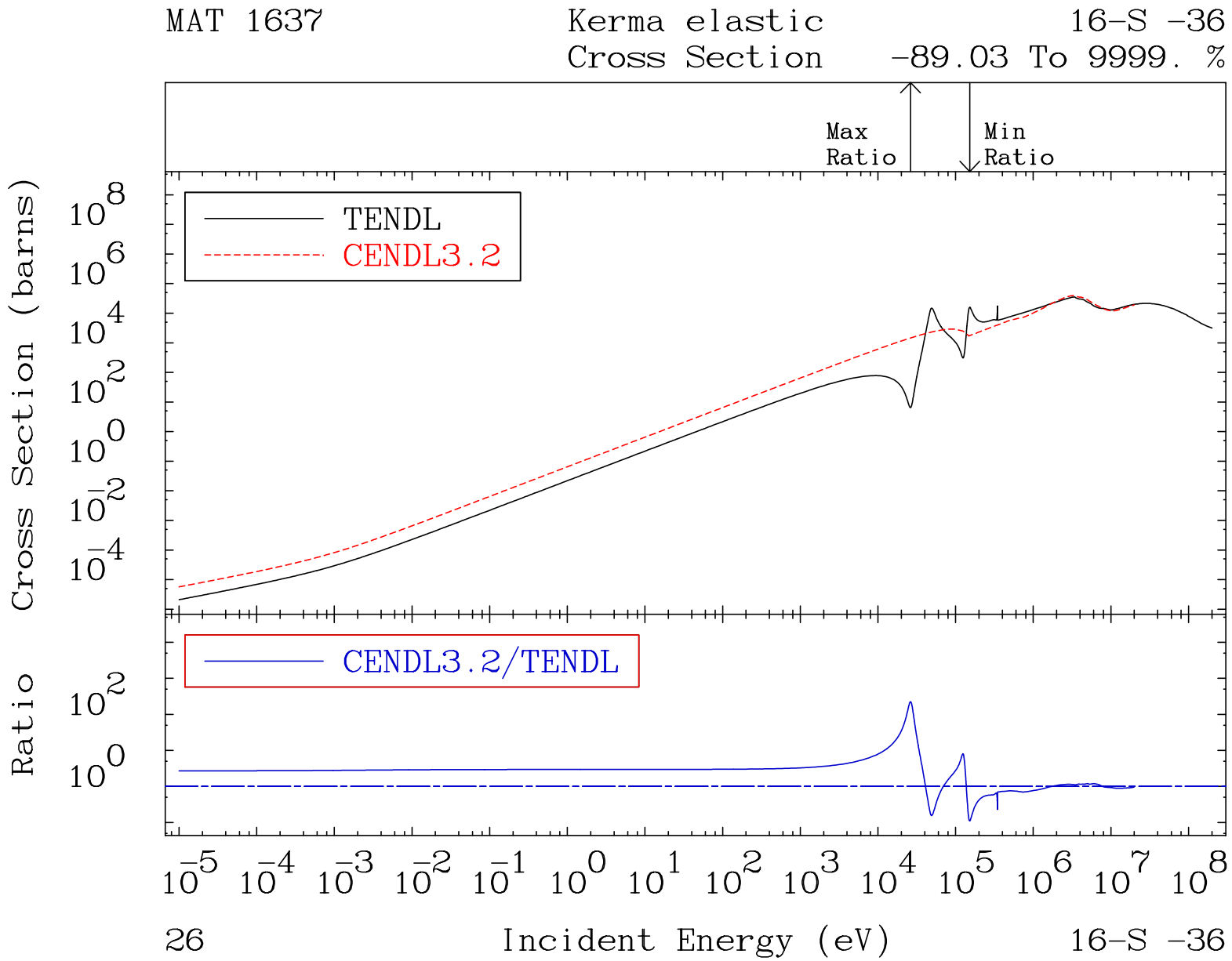

MAT 1637
Hydrogen Production
16-S -36
Cross Section
-100.0 To 64.72 %
Min Ratio
Max Ratio
TENDL Threshold 9.9008 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
21
Incident Energy (eV)
16-S -36

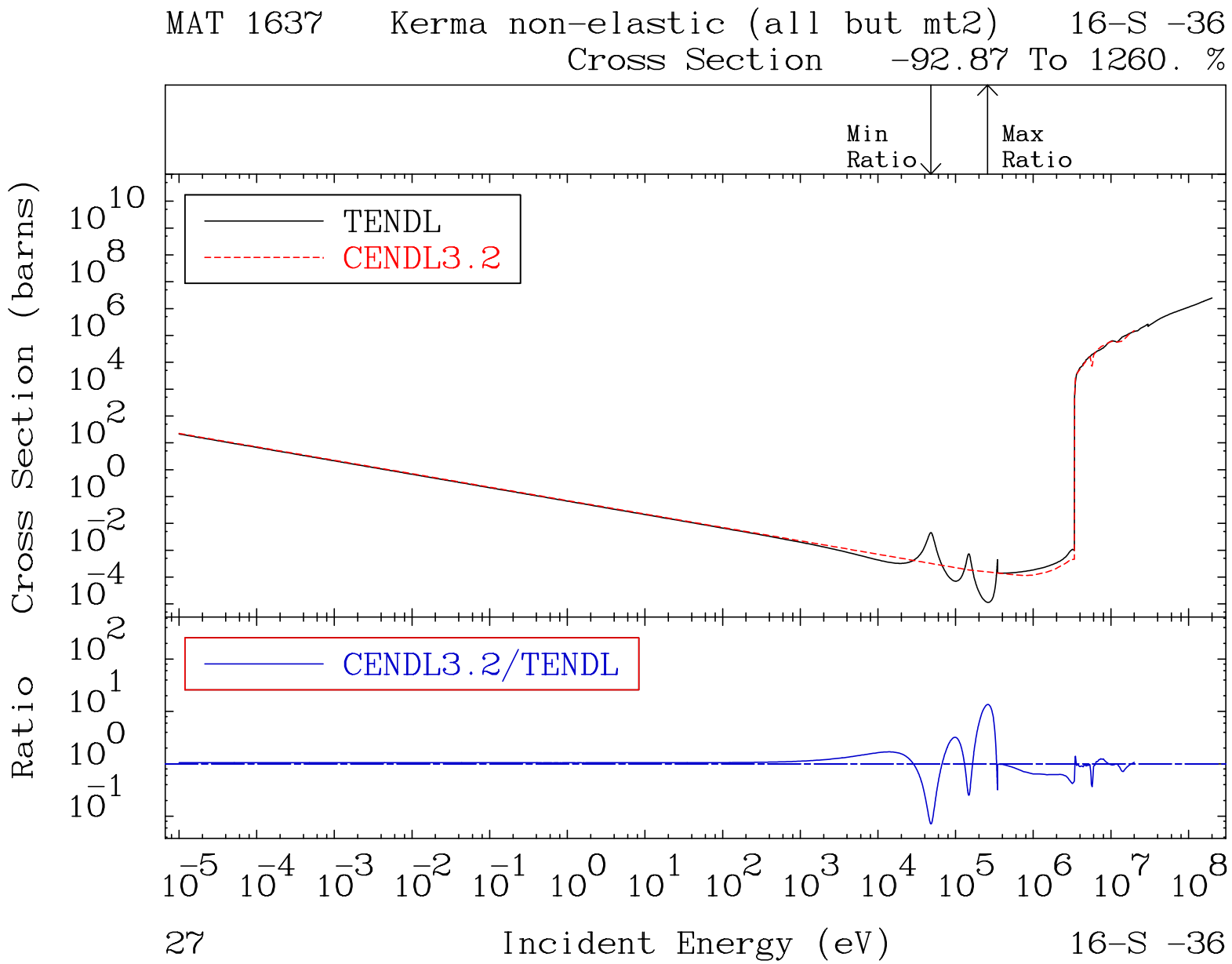

MAT 1637
Deuterium Production
16-S -36
Cross Section -100.0 To 18.57 %
Min Ratio
Max Ratio
TENDL Threshold 11.176 MeV
CENDL3.2 Threshold 11.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
22
Incident Energy (eV)
16-S -36

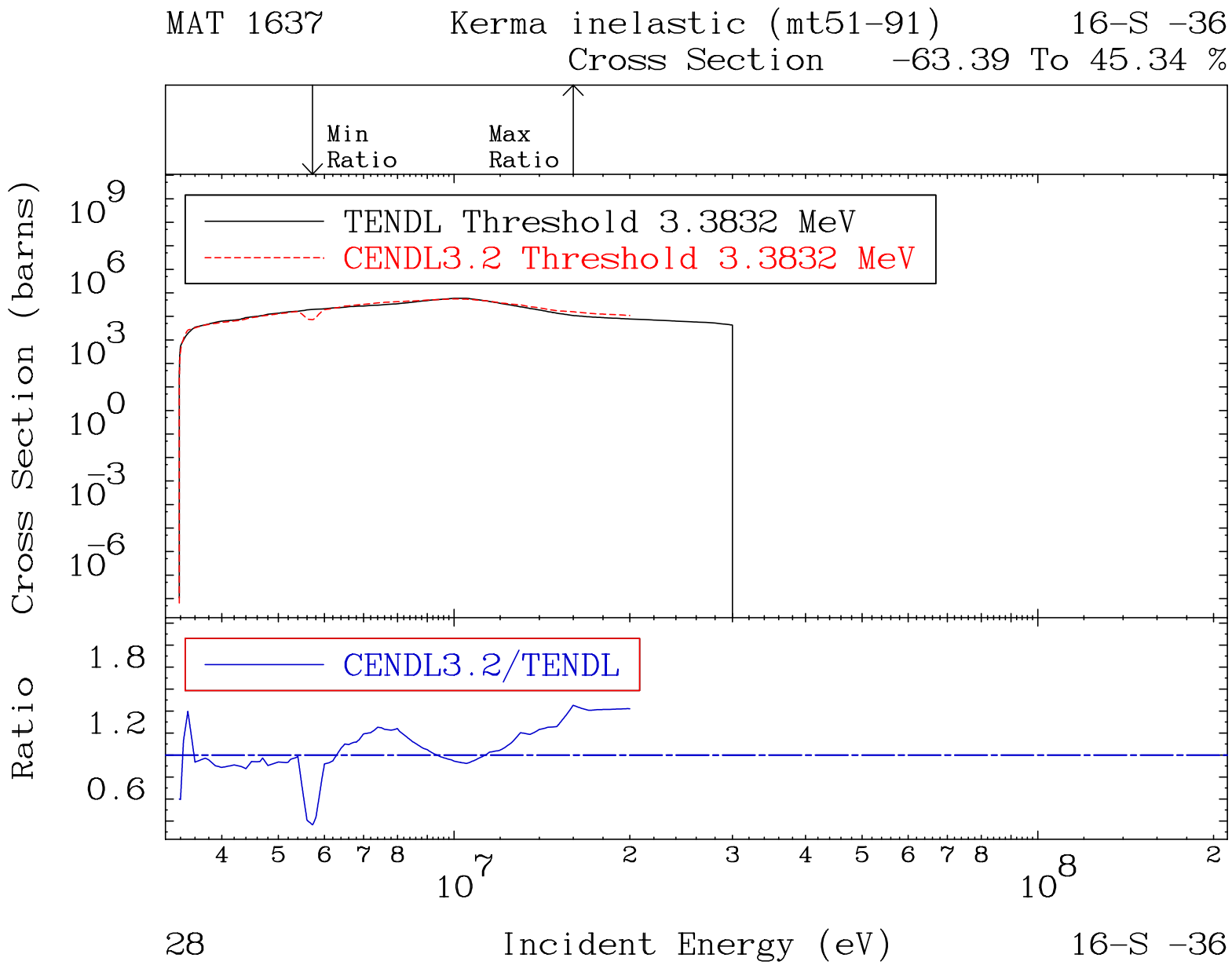

MAT 1637
Tritium Production
16-S -36
Cross Section
-100.0 To 60.97 %
Max
Ratio
TENDL Threshold 13.358 MeV
CENDL3.2 Threshold 13.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
16-S -36

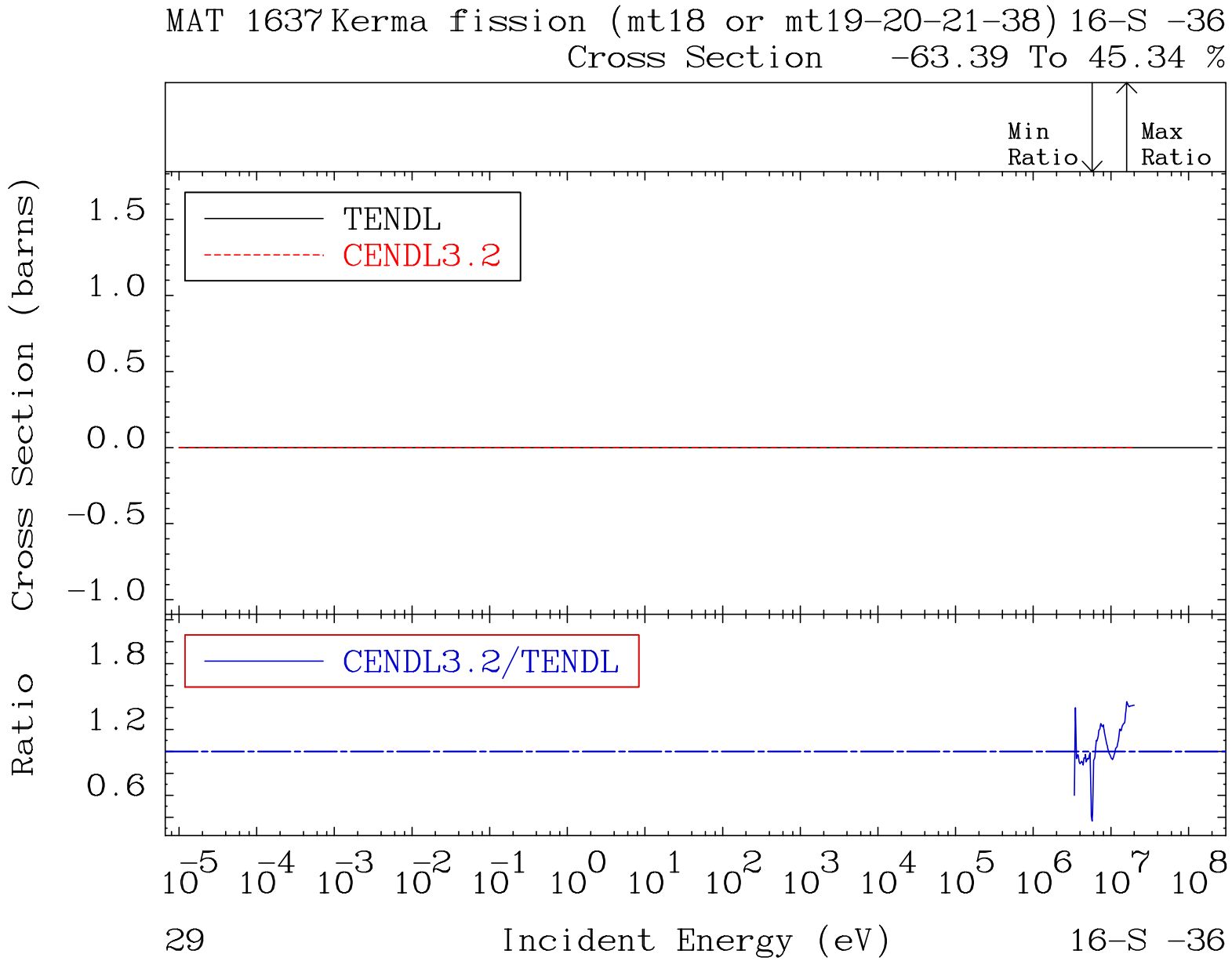

MAT 1637
He-4 Production
Cross Section
16-S -36
-100.0 To 842.0 %
Min Ratio
Max Ratio
TENDL Threshold 4.6297 MeV
CENDL3.2 Threshold 6.0000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
12
6
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
16-S -36

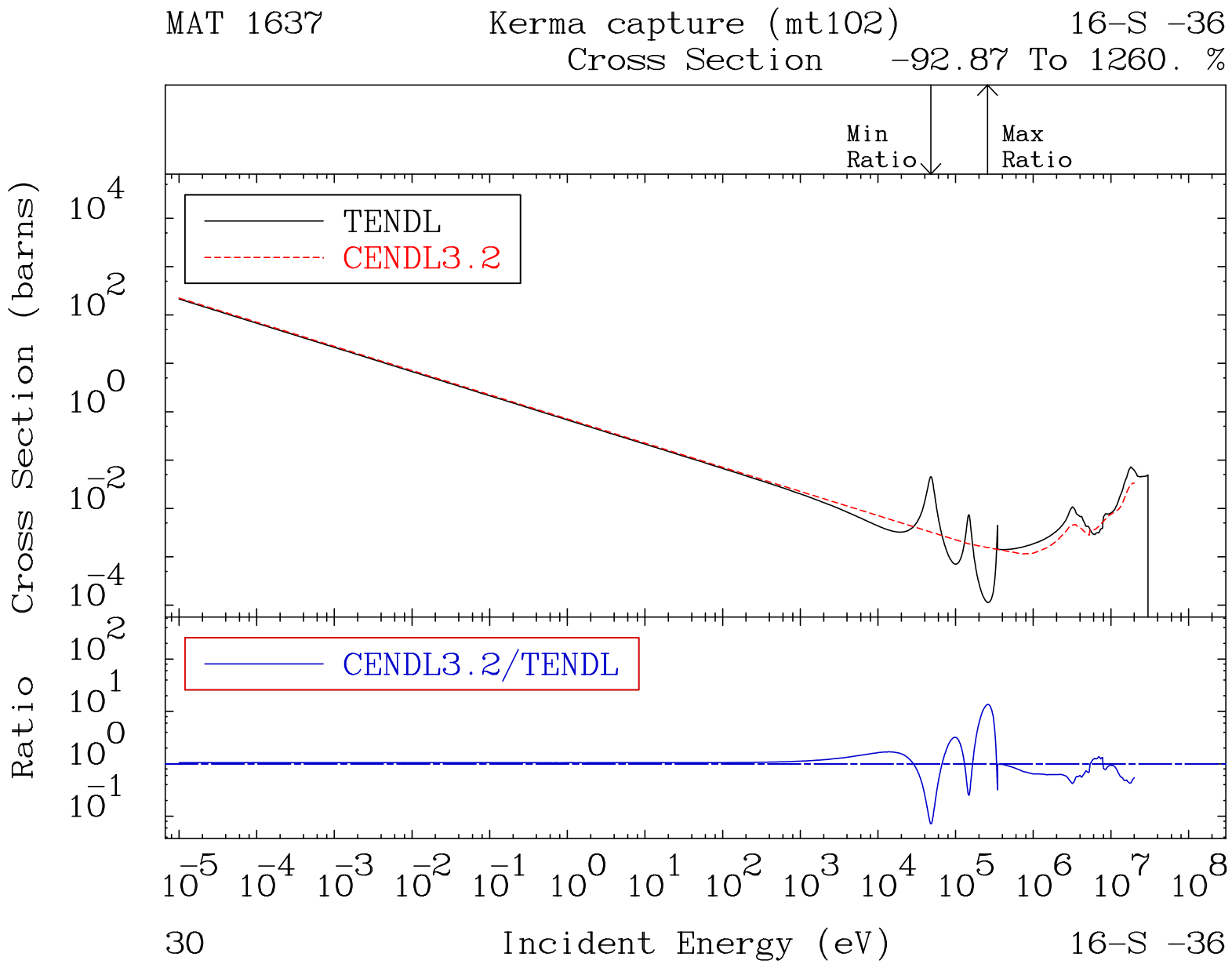

MAT 1637
Kerma total (eV-barns)
16-S -36
Cross Section -89.03 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
Incident Energy (eV)
25
16-S -36

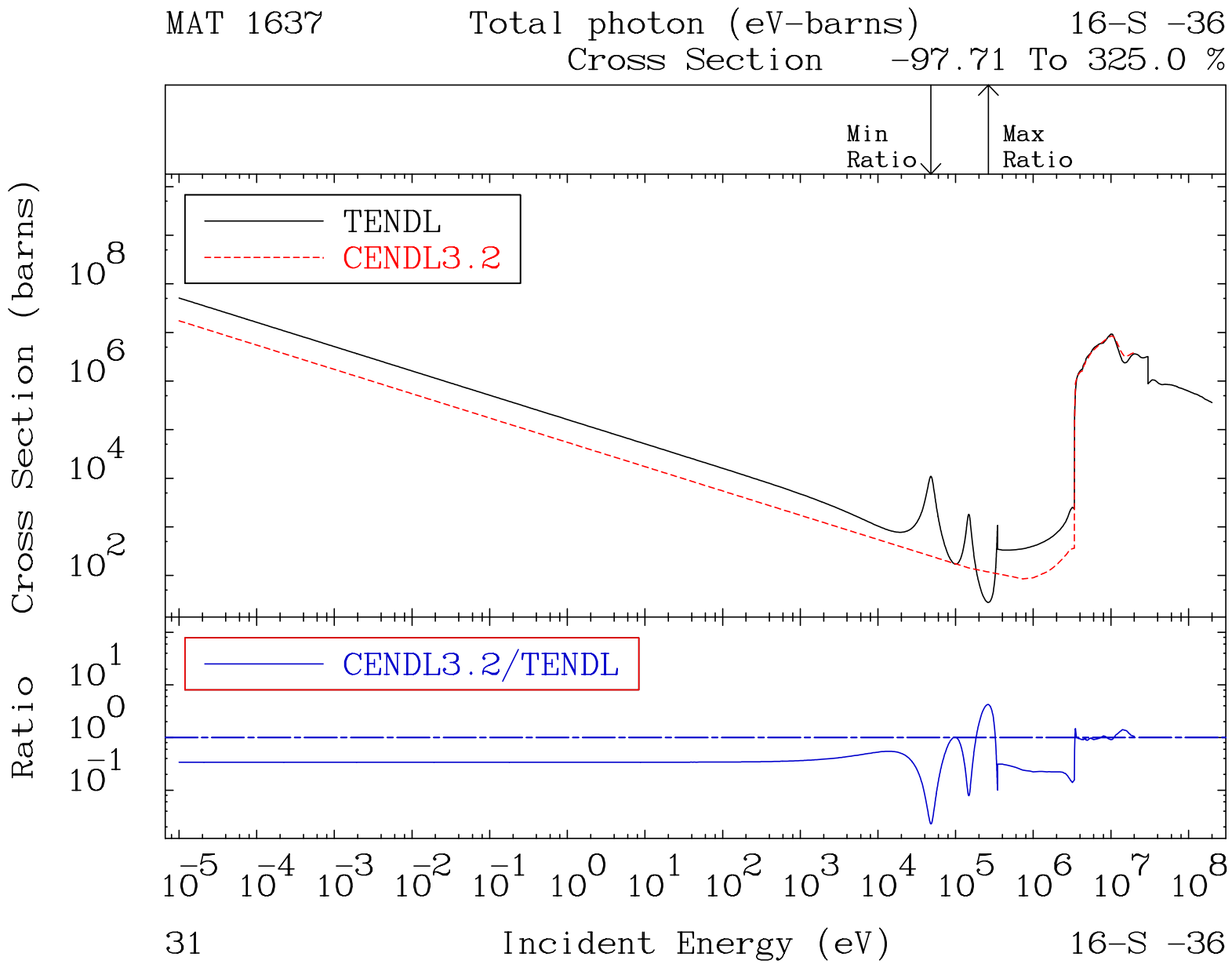

MAT 1637
Kerma elastic
Cross Section
16-S -36
-89.03 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
16-S -36

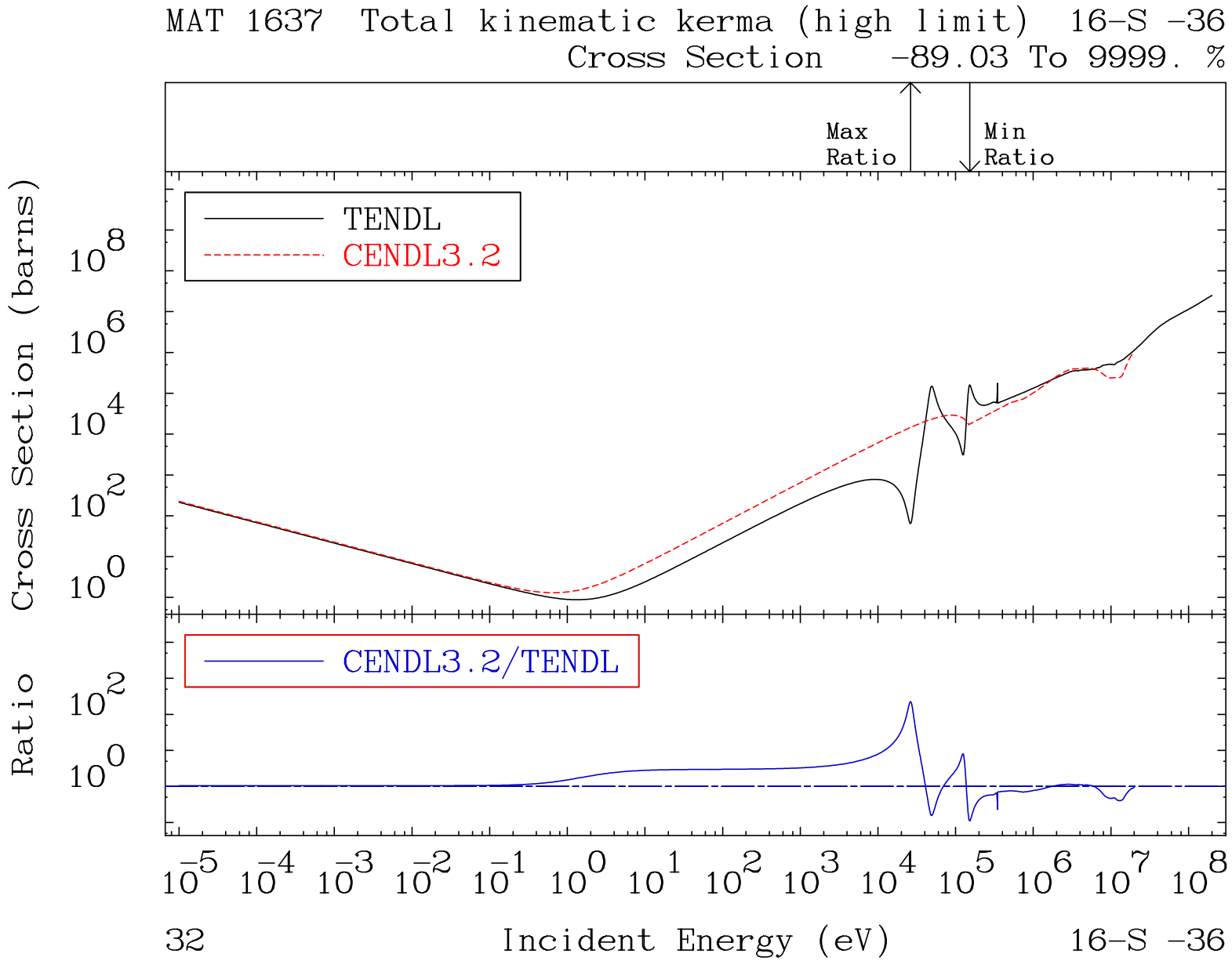

MAT 1637 Kerma non-elastic (all but mt2) 16-S -36
Cross Section -92.87 To 1260. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
16-S -36

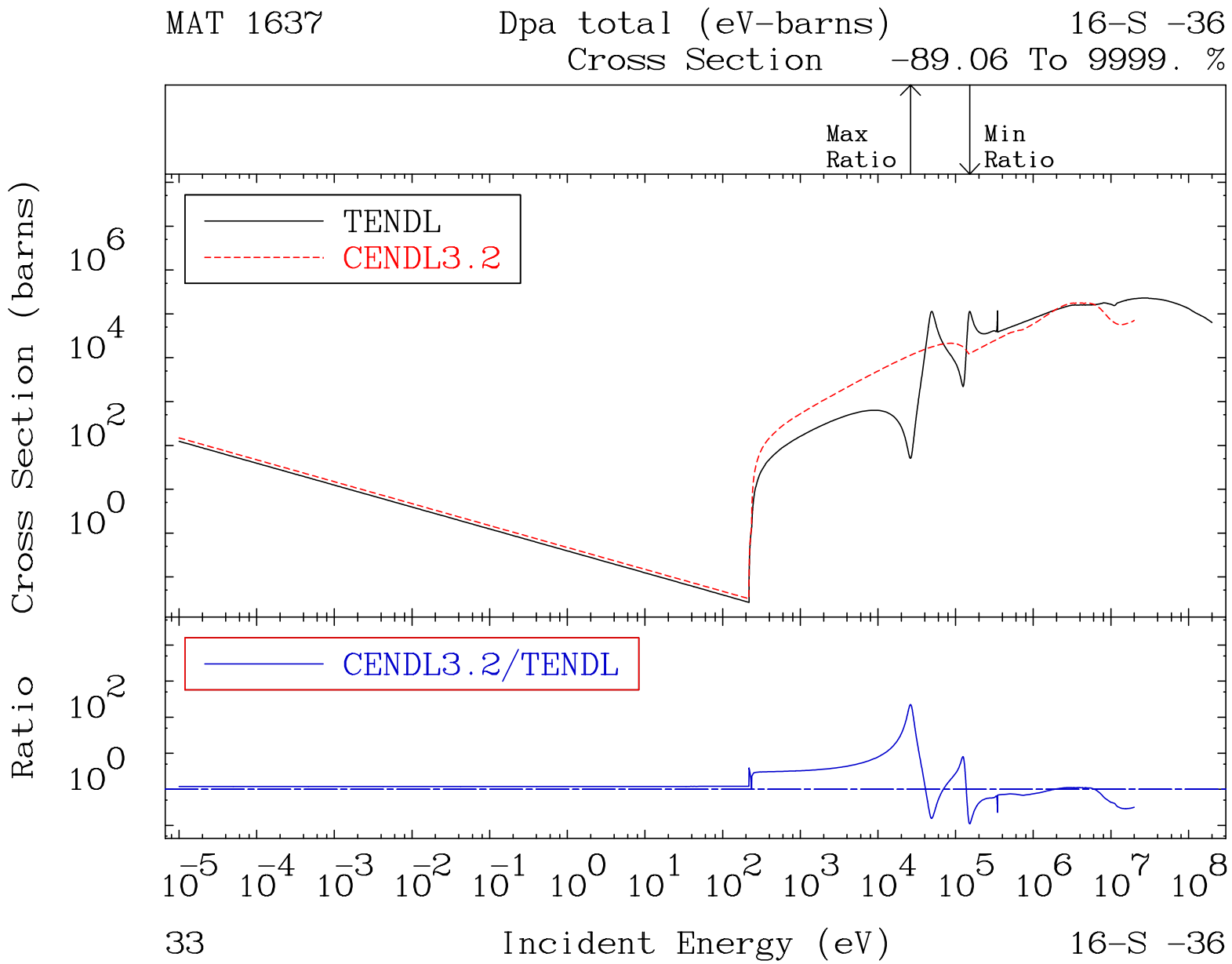

MAT 1637
Kerma inelastic (mt51-91)
16-S -36
Cross Section -63.39 To 45.34 %
Min Ratio
Max Ratio
TENDL Threshold 3.3832 MeV
CENDL3.2 Threshold 3.3832 MeV
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
28
16-S -36

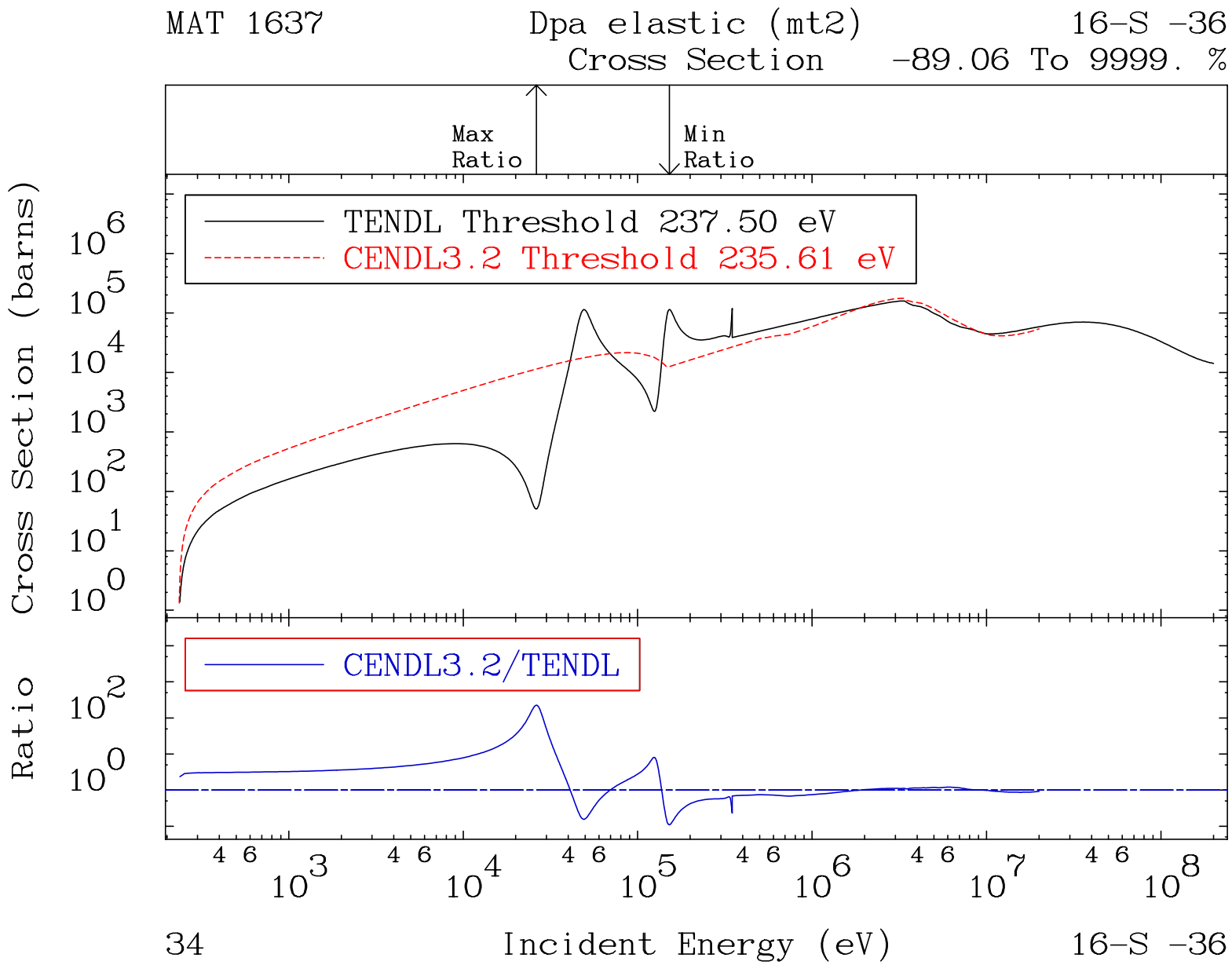

MAT 1637 Kerma fission (mt18 or mt19-20-21-38) 16-S -36
Cross Section -63.39 To 45.34 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
1.8
1.2
0.6
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
29
Incident Energy (eV)
16-S -36

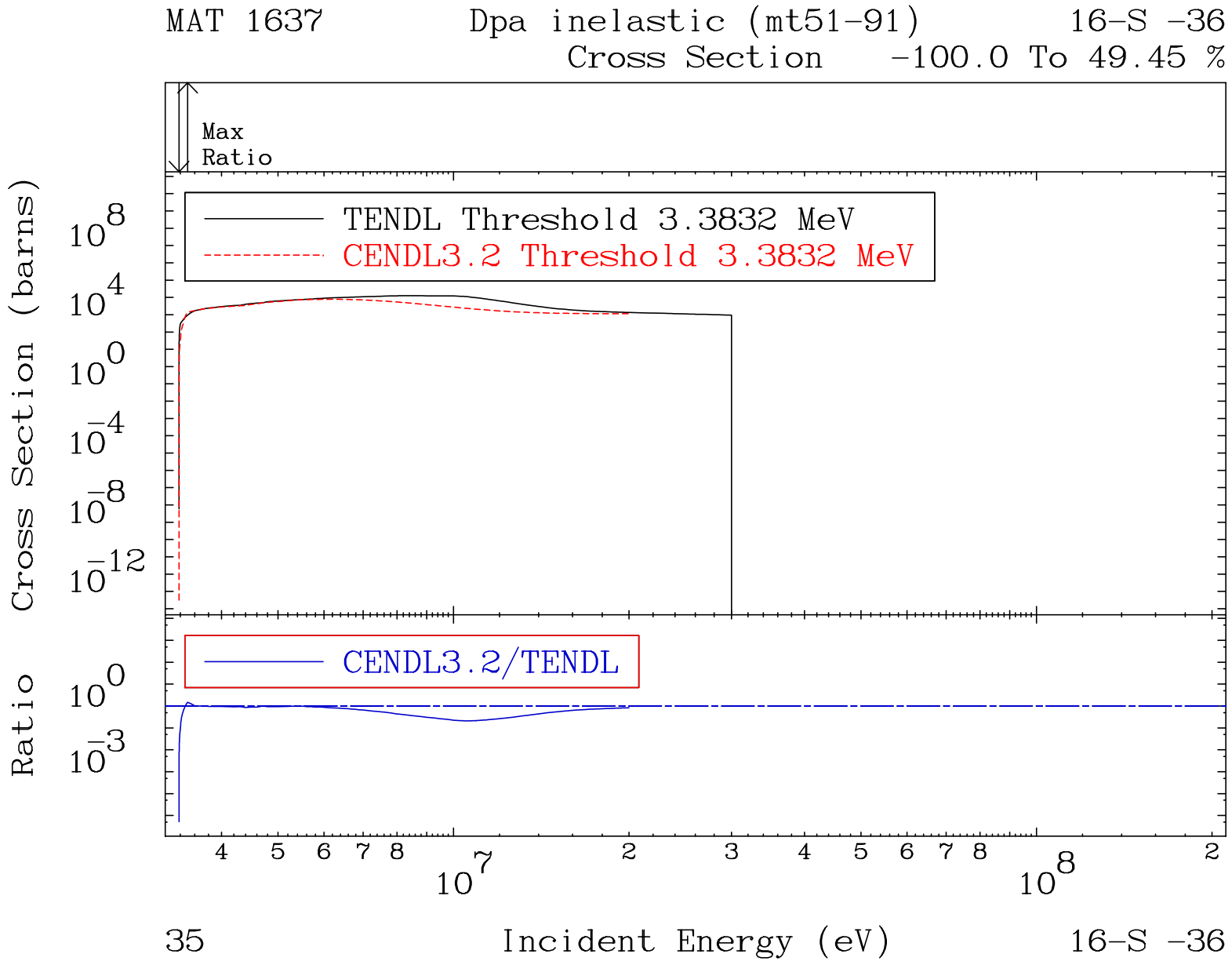

MAT 1637
Kerma capture (mt102)
16-S -36
Cross Section -92.87 To 1260. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
30
16-S -36

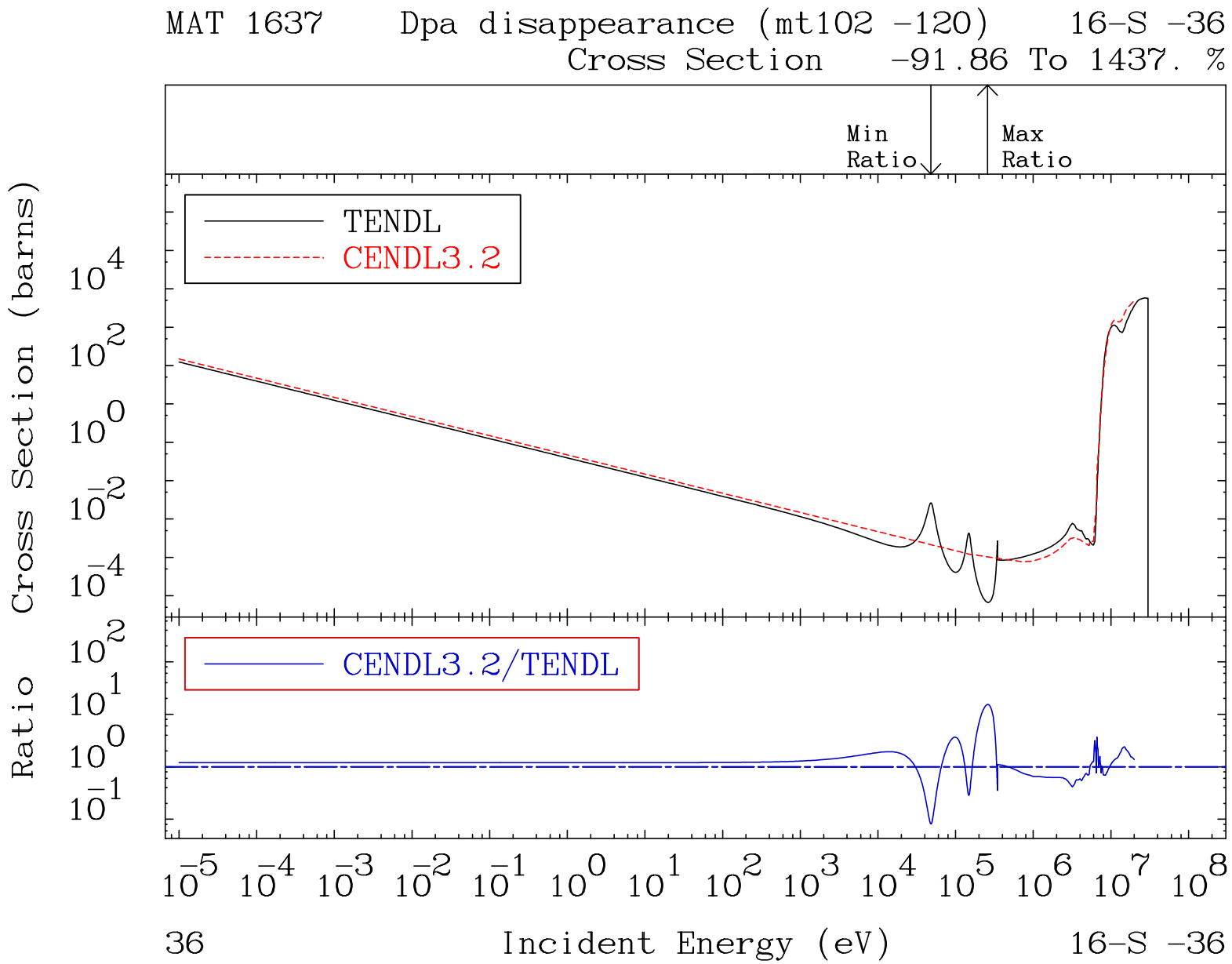

MAT 1637
Total photon (eV-barns)
16-S -36
Cross Section -97.71 To 325.0 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^{8}
10^{6}
10^{4}
10^{2}
CENDL3.2/TENDL
Ratio
10^{1}
10^{0}
10^{-1}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
31
Incident Energy (eV)
16-S -36


MAT 1637 Total kinematic kerma (high limit) 16-S -36
Cross Section -89.03 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
32
16-S -36


MAT 1637
Dpa total (eV-barns)
16-S -36
Cross Section -89.06 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
Cross Section (barns)
10^6
10^4
10^2
10^0
CENDL3.2/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
33
Incident Energy (eV)
16-S -36


MAT 1637
Dpa elastic (mt2)
Cross Section
16-S -36
-89.06 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 237.50 eV
CENDL3.2 Threshold 235.61 eV
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
34
16-S -36


MAT 1637
Dpa inelastic (mt51-91)
16-S -36
Cross Section -100.0 To 49.45 %
Max
Ratio
TENDL Threshold 3.3832 MeV
CENDL3.2 Threshold 3.3832 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
16-S -36


MAT 1637 Dpa disappearance (mt102 -120) 16-S -36
Cross Section -91.86 To 1437. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
16-S -36