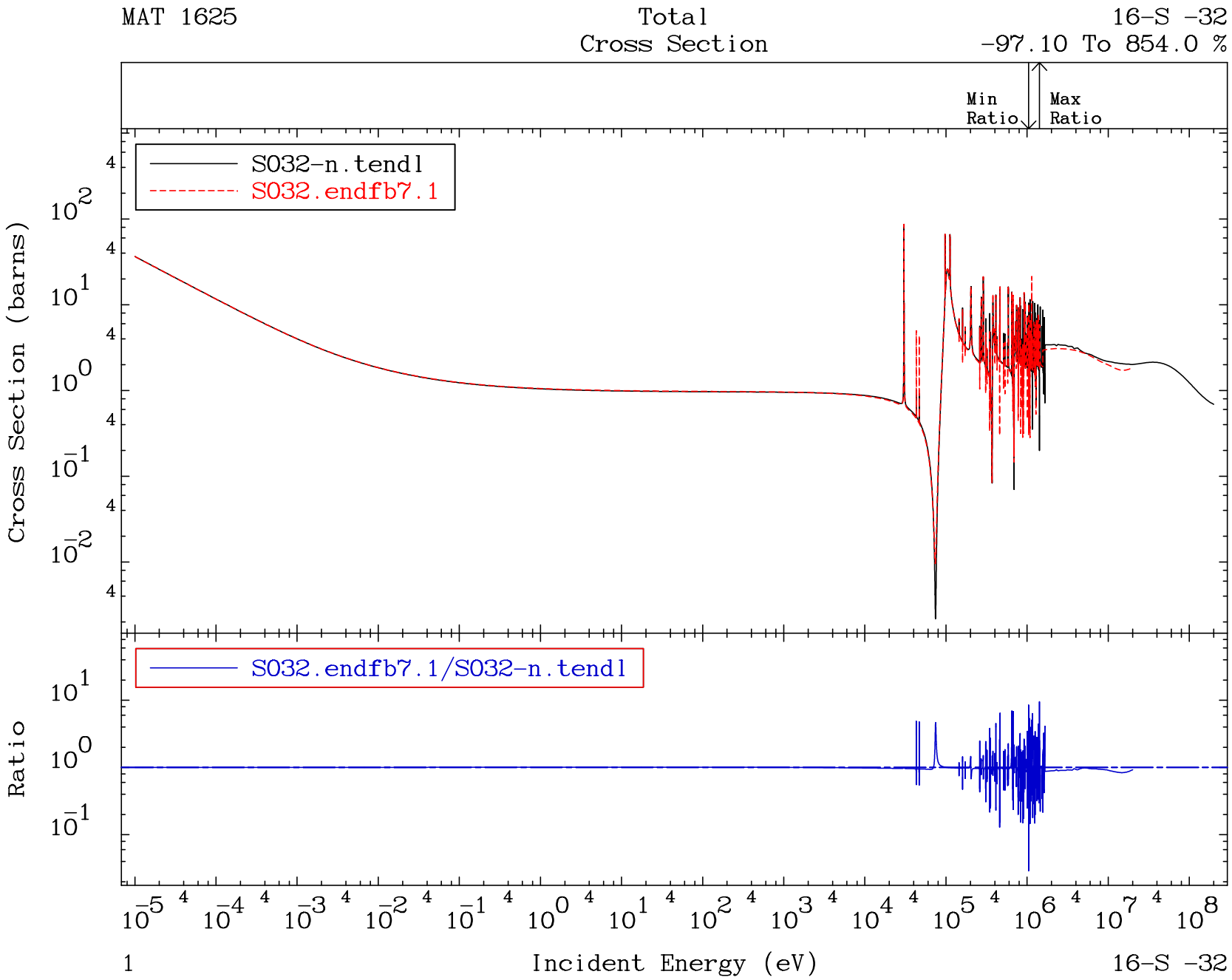
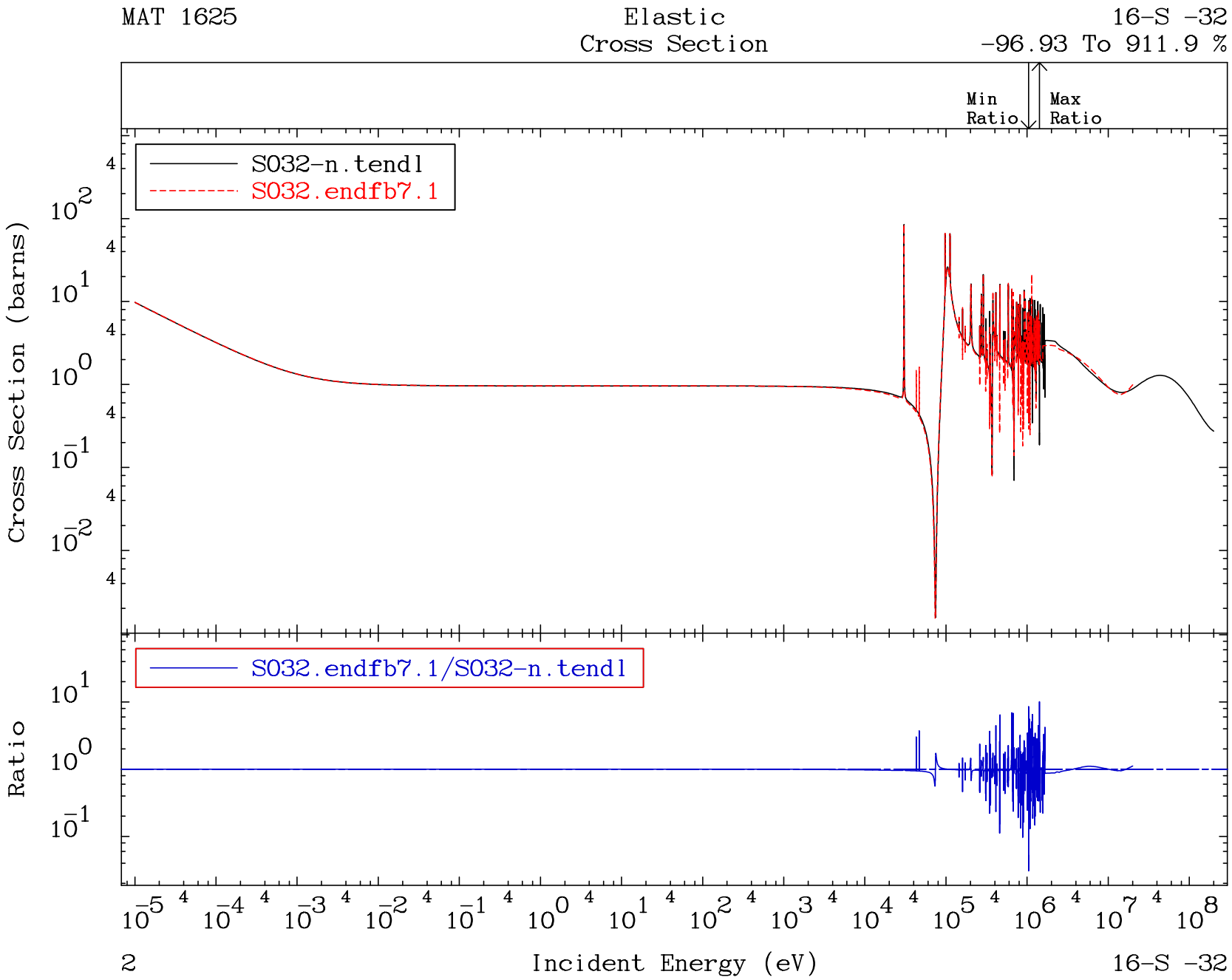
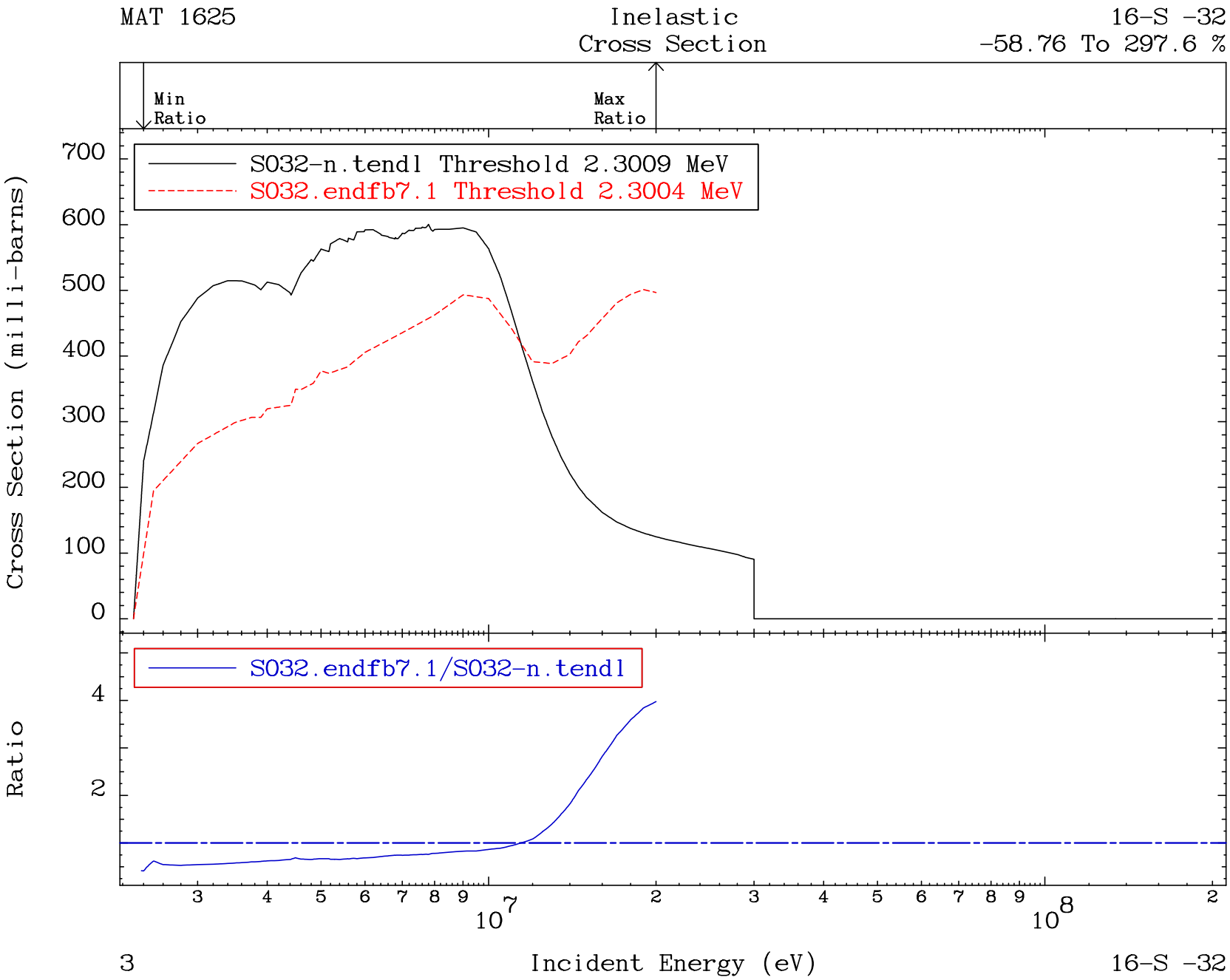
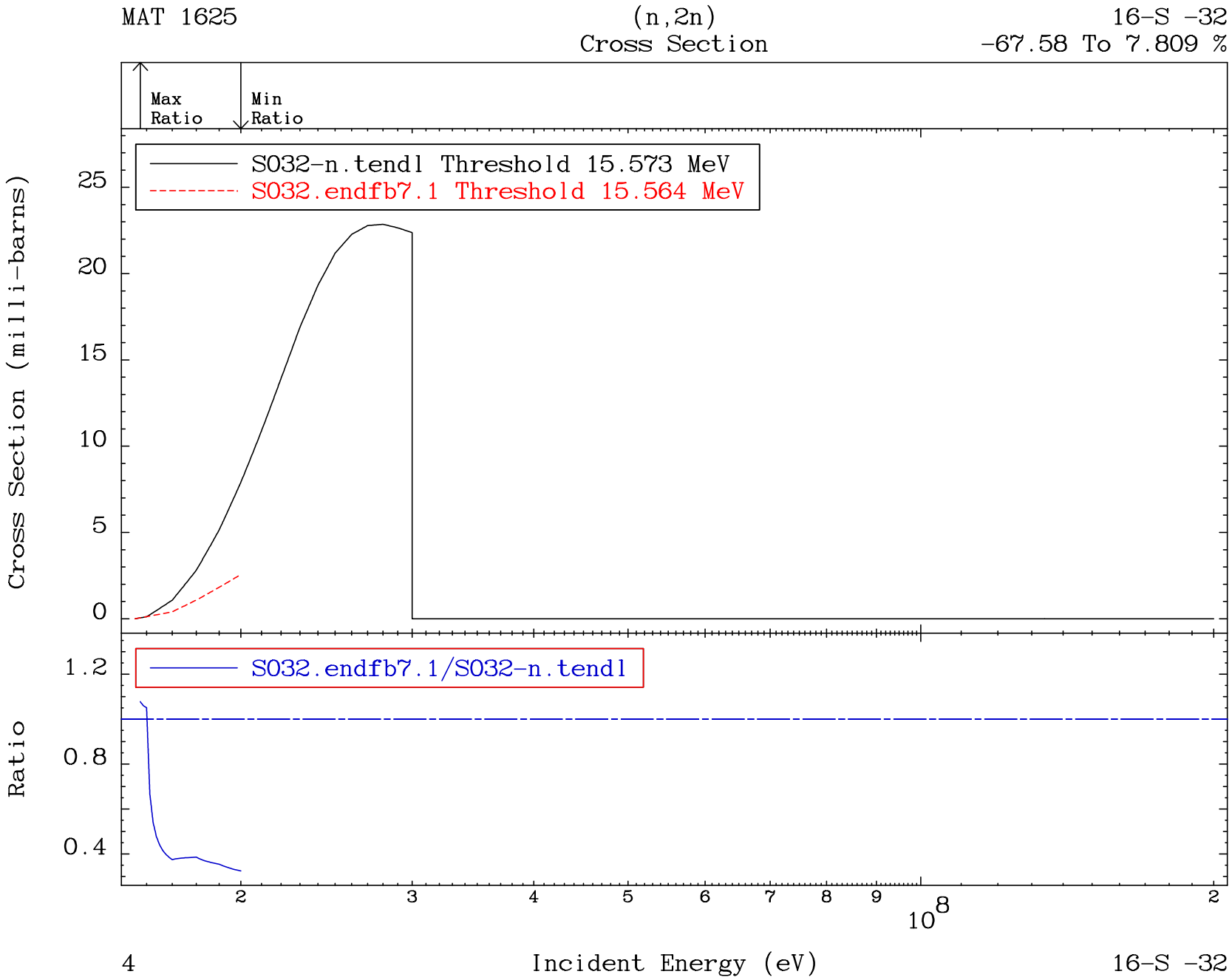
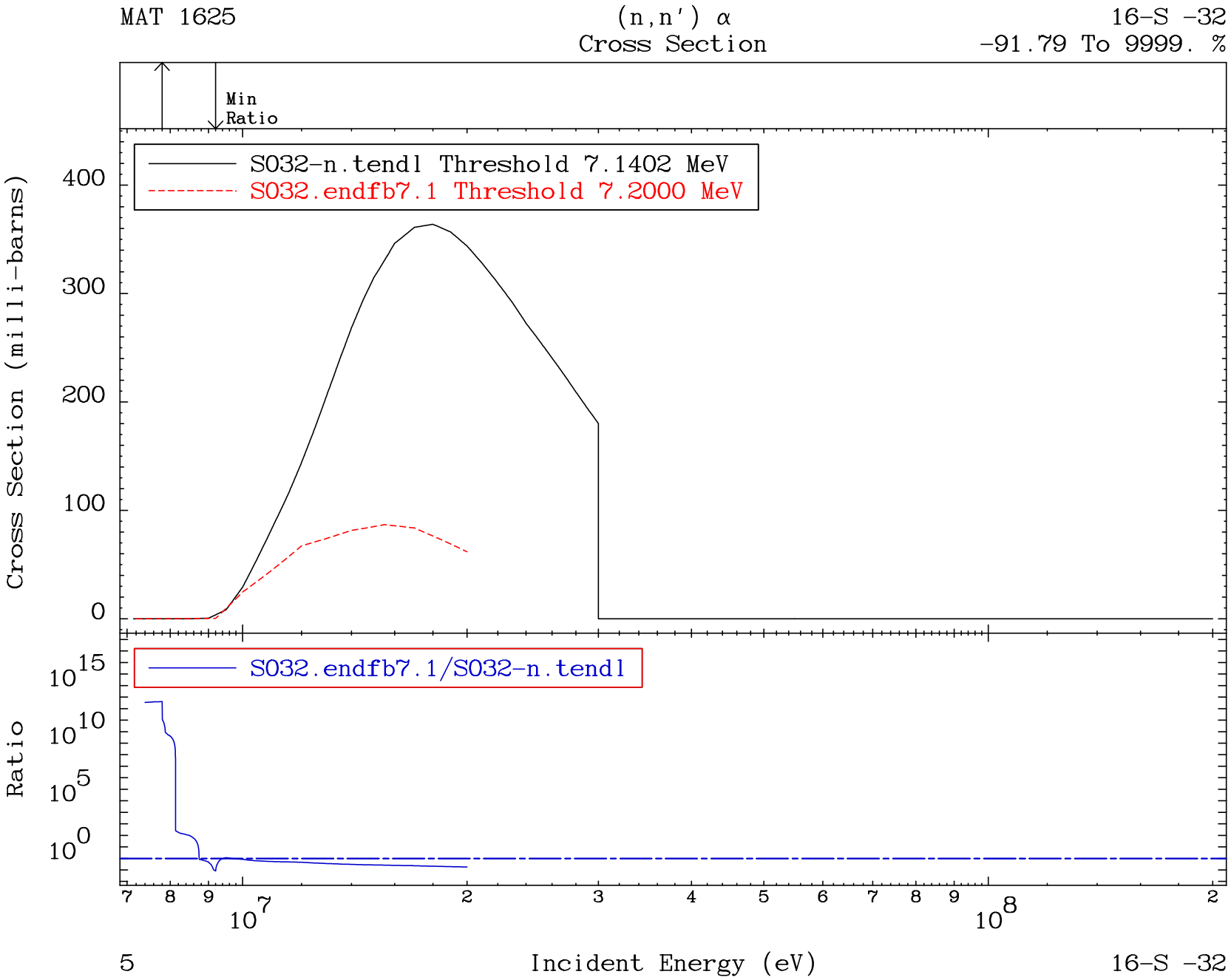
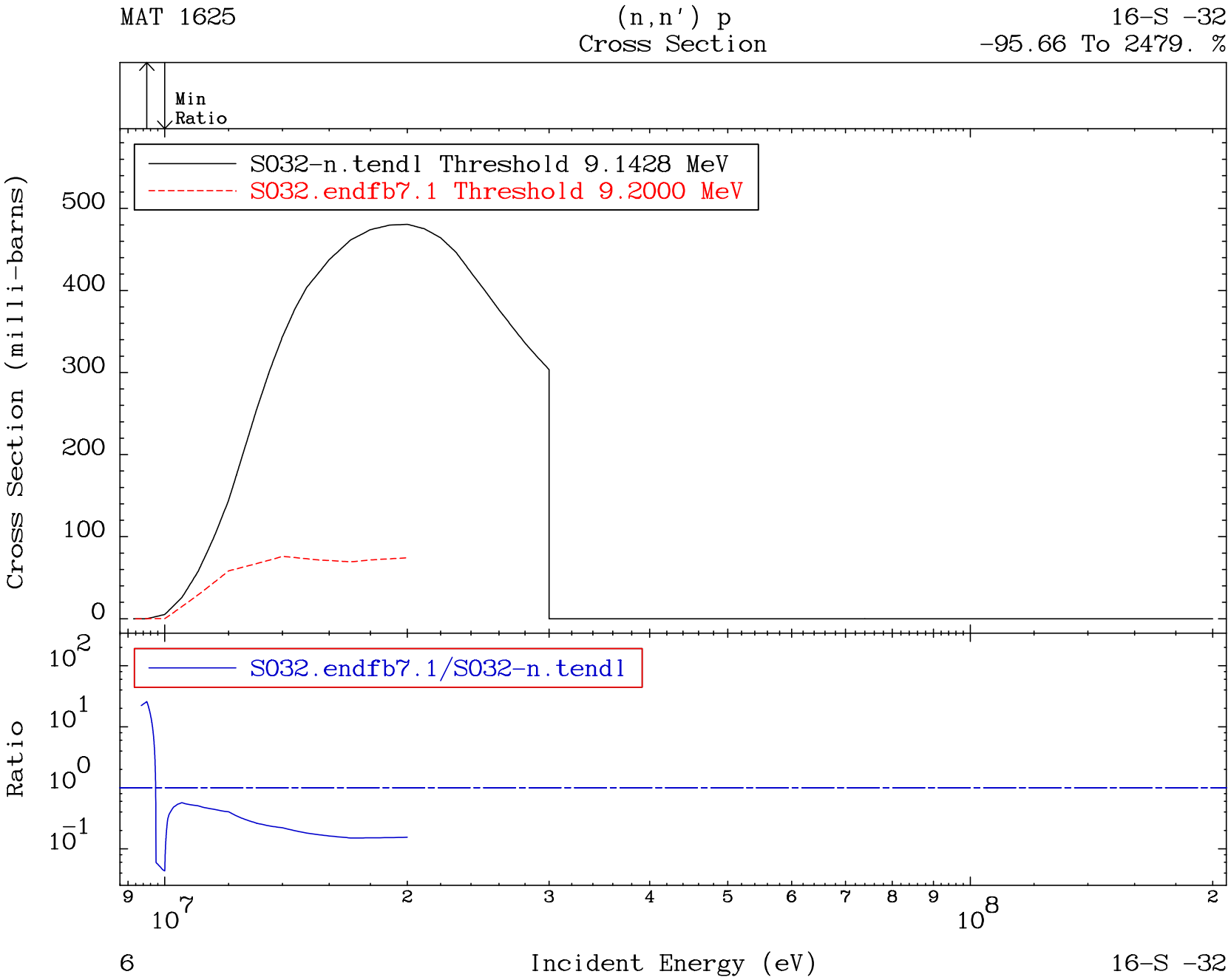

MAT 1625
Total
Cross Section
16-S -32
-97.10 To 854.0 %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
1
16-S -32

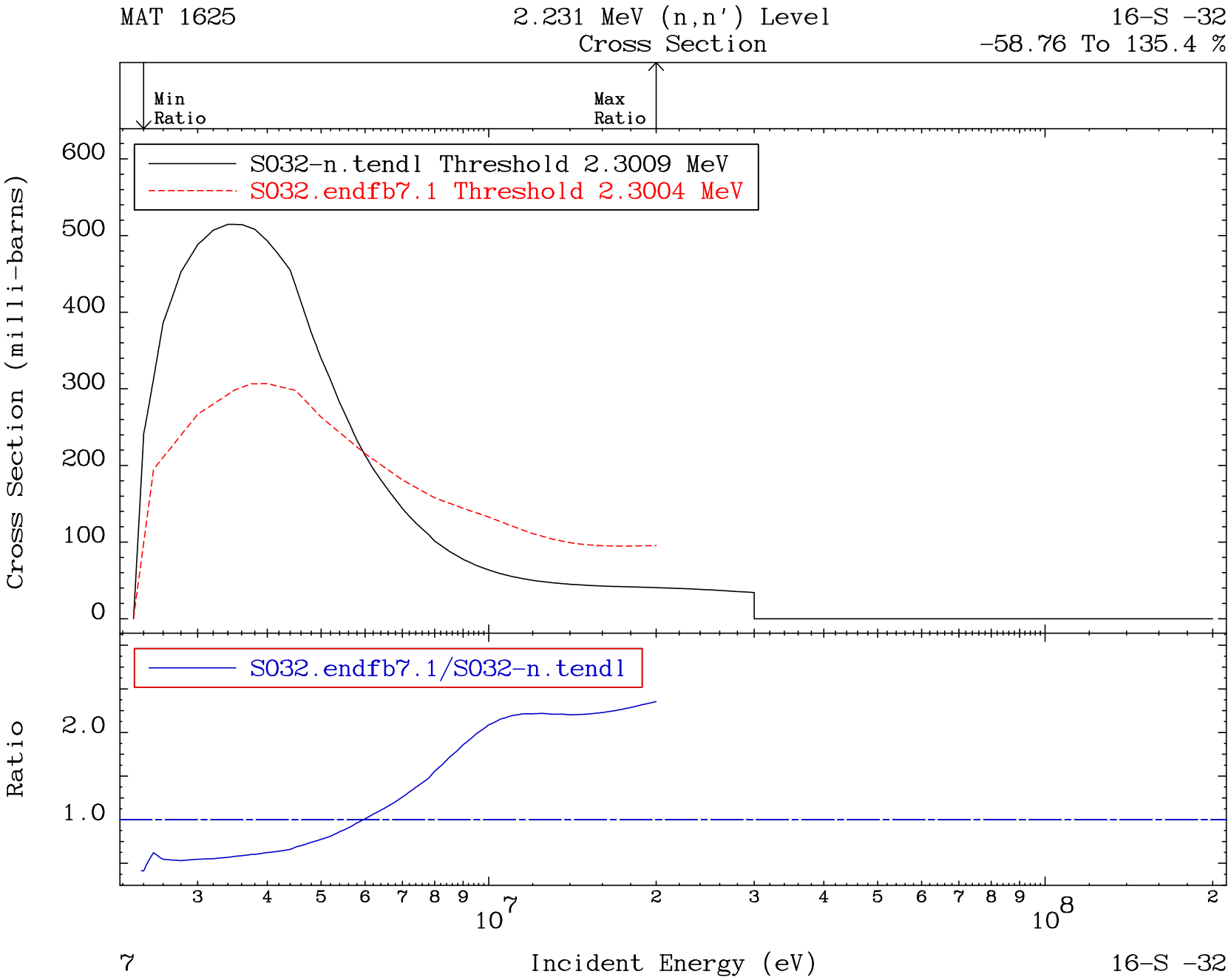

MAT 1625
Elastic
Cross Section
16-S -32
-96.93 To 911.9 %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
2
16-S -32

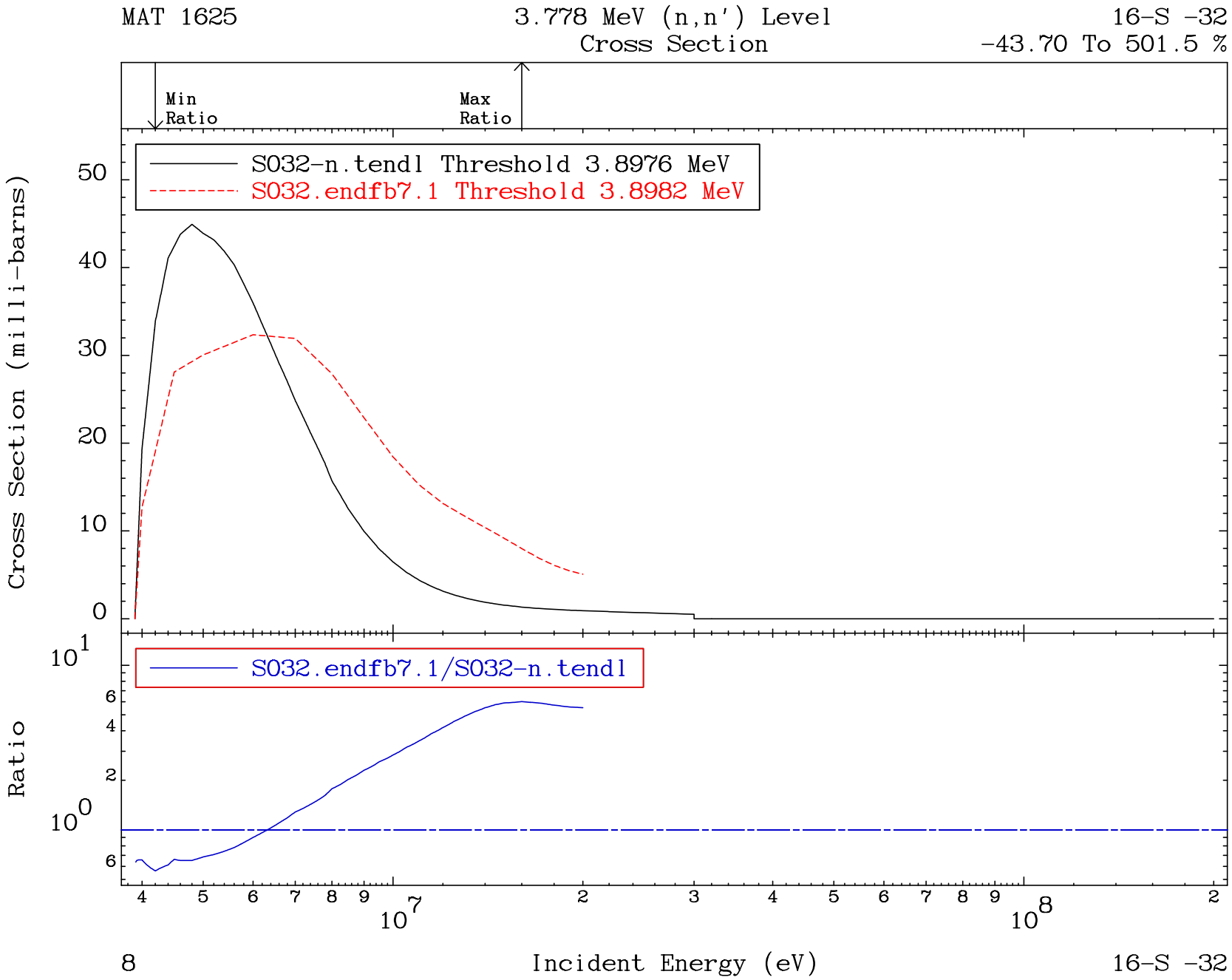

MAT 1625
Inelastic
Cross Section
16-S -32
-58.76 To 297.6 %
Min
Ratio
Max
Ratio
S032-n.tendl Threshold 2.3009 MeV
S032.endfb7.1 Threshold 2.3004 MeV
Cross Section (milli-barns)
700
600
500
400
300
200
100
0
S032.endfb7.1/S032-n.tendl
Ratio
4
2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
3
Incident Energy (eV)
16-S -32

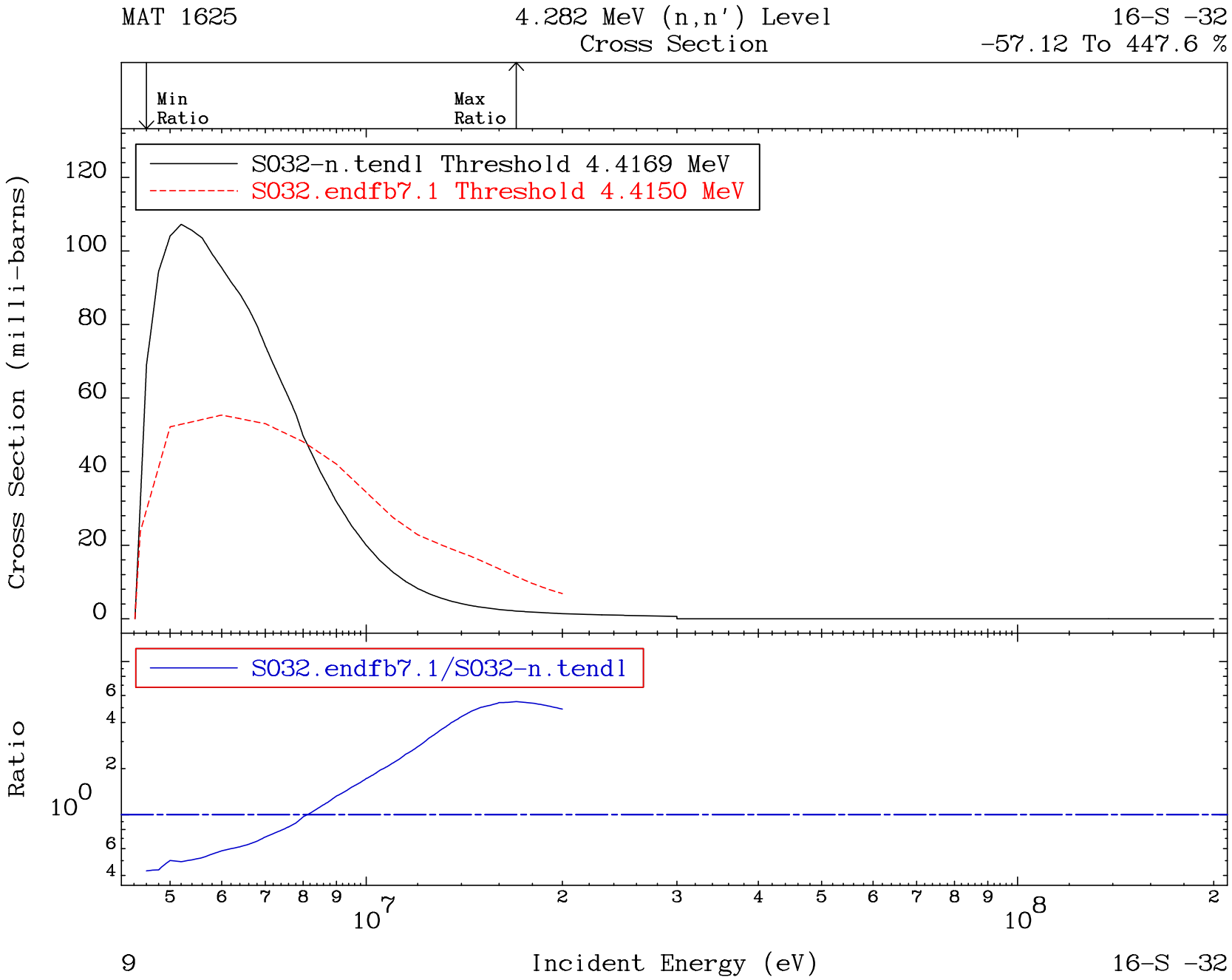

MAT 1625
(n,2n)
Cross Section
16-S -32
-67.58 To 7.809 %
Max Ratio
Min Ratio
S032-n.tendl Threshold 15.573 MeV
S032.endfb7.1 Threshold 15.564 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
S032.endfb7.1/S032-n.tendl
Ratio
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
16-S -32

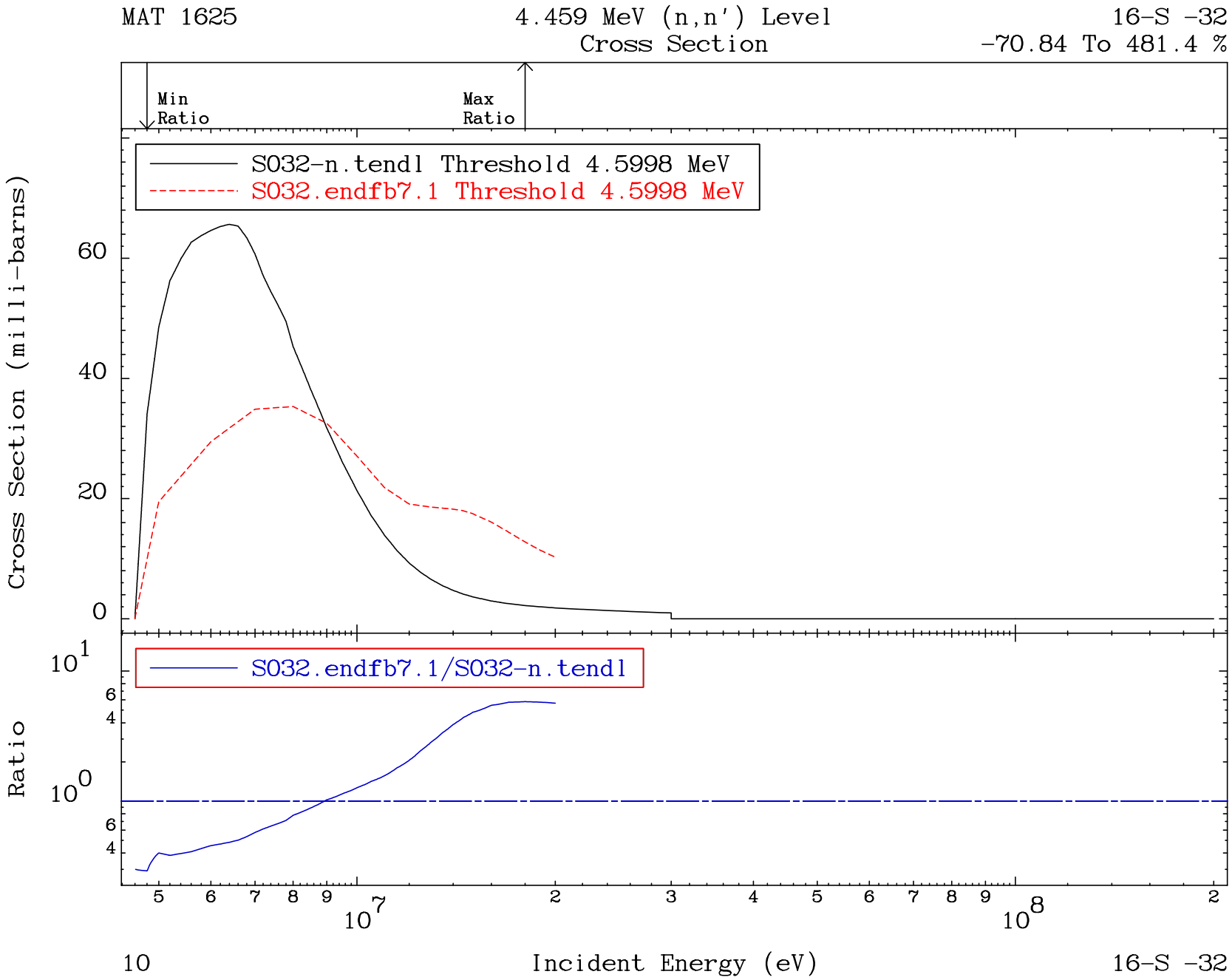

MAT 1625
(n,n') α
Cross Section
16-S -32
-91.79 To 9999. %
Min
Ratio
S032-n.tendl Threshold 7.1402 MeV
S032.endfb7.1 Threshold 7.2000 MeV
Cross Section (milli-barns)
400
300
200
100
0
S032.endfb7.1/S032-n.tendl
Ratio
10^15
10^10
10^5
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
16-S -32

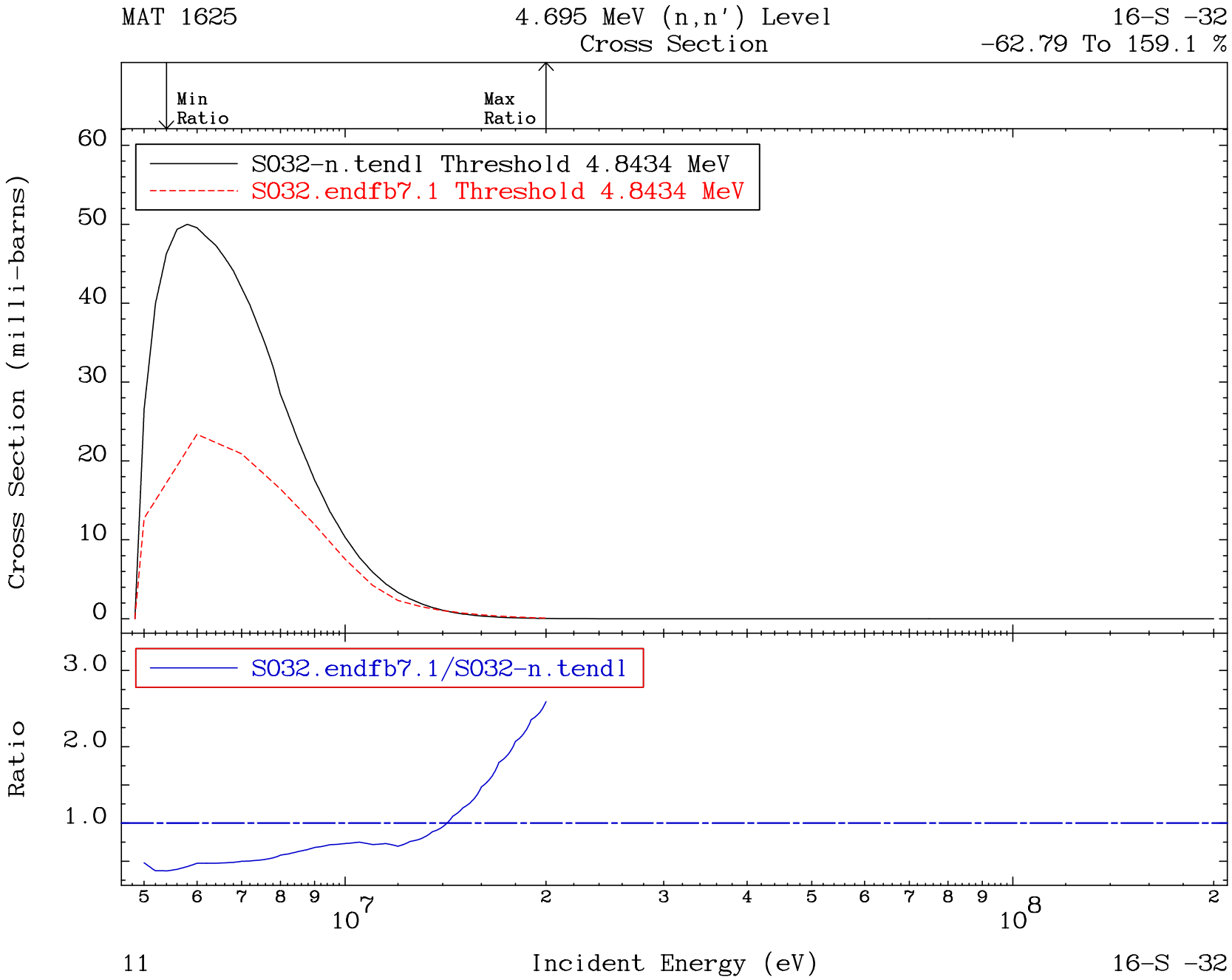

MAT 1625
(n,n') p
Cross Section
16-S -32
-95.66 To 2479. %
Min
Ratio
S032-n.tendl Threshold 9.1428 MeV
S032.endfb7.1 Threshold 9.2000 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
S032.endfb7.1/S032-n.tendl
Ratio
10^2
10^1
10^0
10^-1
9
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
16-S -32

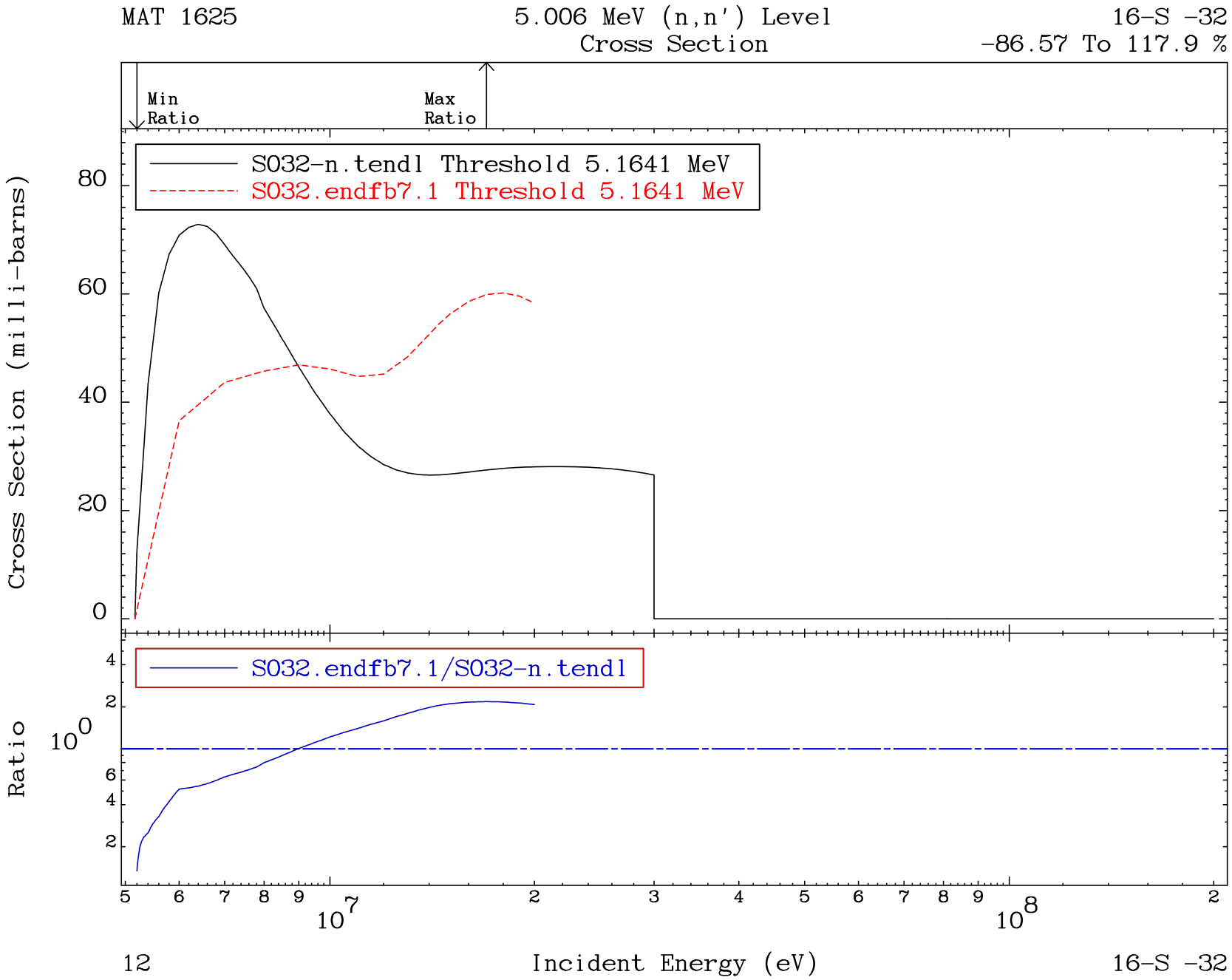

MAT 1625
2.231 MeV (n,n') Level
Cross Section
16-S -32
-58.76 To 135.4 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 2.3009 MeV
S032.endfb7.1 Threshold 2.3004 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
S032.endfb7.1/S032-n.tendl
Ratio
2.0
1.0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
7
Incident Energy (eV)
16-S -32

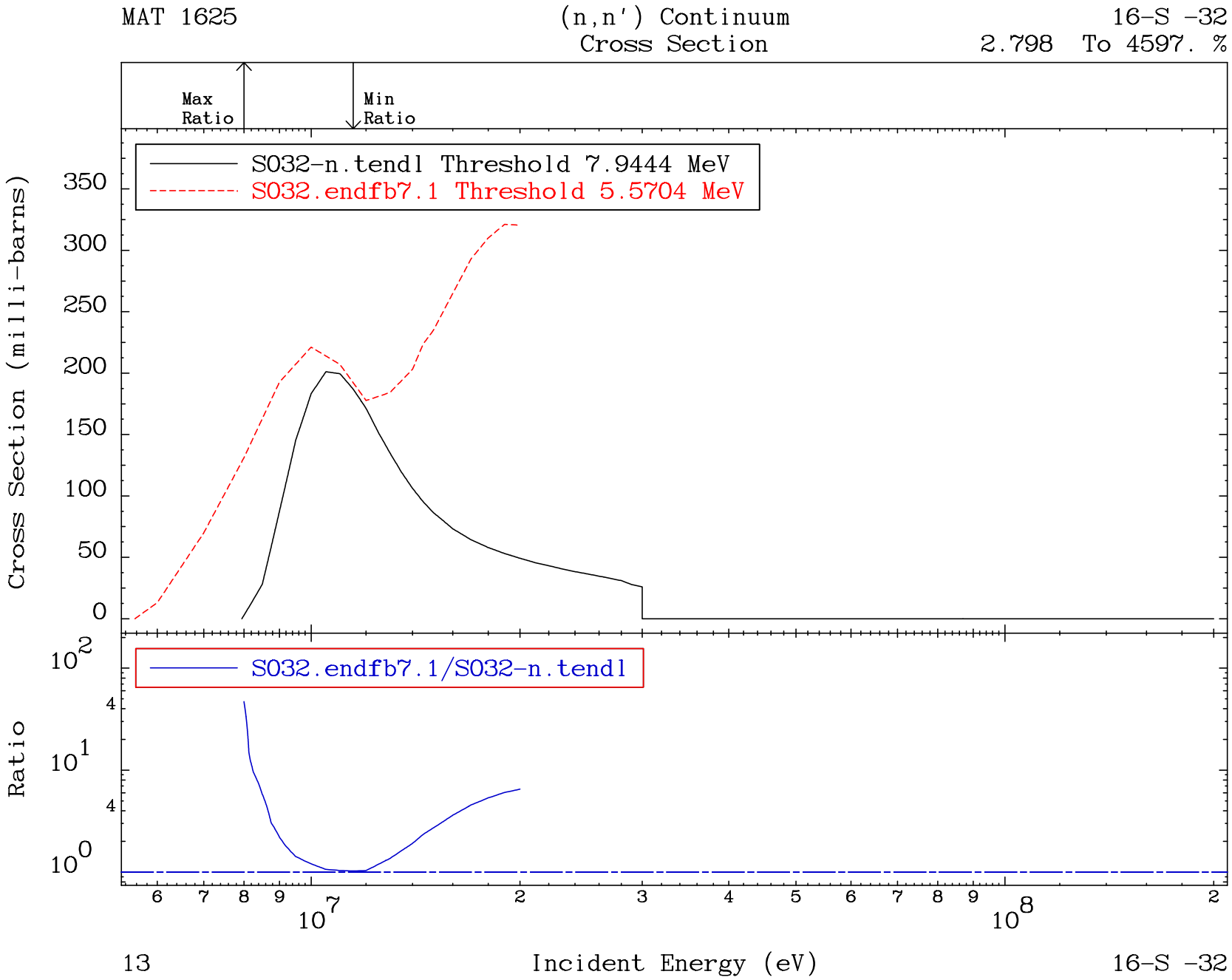

MAT 1625
3.778 MeV (n,n') Level
Cross Section
16-S -32
-43.70 To 501.5 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 3.8976 MeV
S032.endfb7.1 Threshold 3.8982 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
S032.endfb7.1/S032-n.tendl
Ratio
10^1
10^0
6
4
2
6
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
8
16-S -32

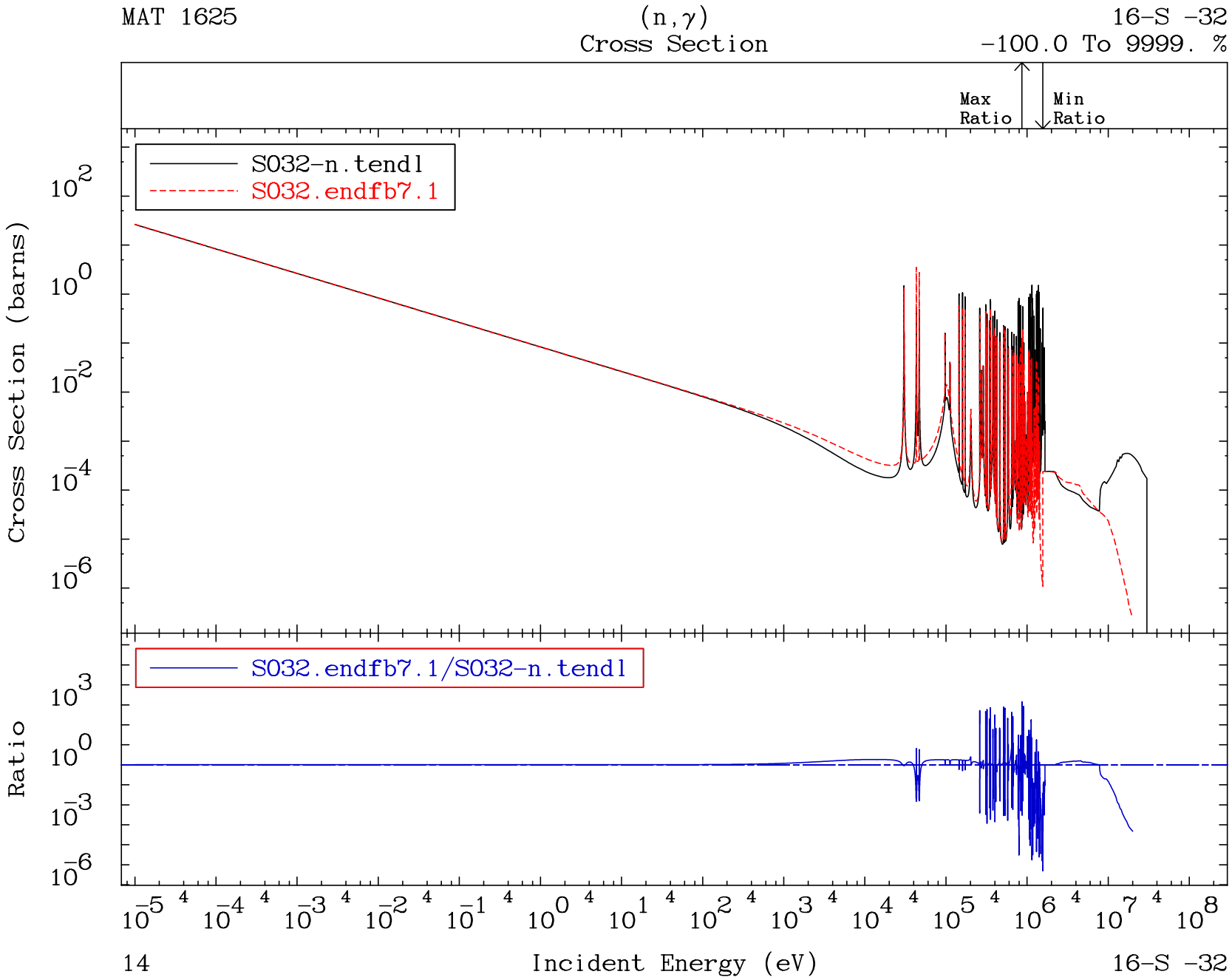

MAT 1625
4.282 MeV (n,n') Level
Cross Section
16-S -32
-57.12 To 447.6 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 4.4169 MeV
S032.endfb7.1 Threshold 4.4150 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
S032.endfb7.1/S032-n.tendl
Ratio
10^0
6
4
2
6
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
9
Incident Energy (eV)
16-S -32

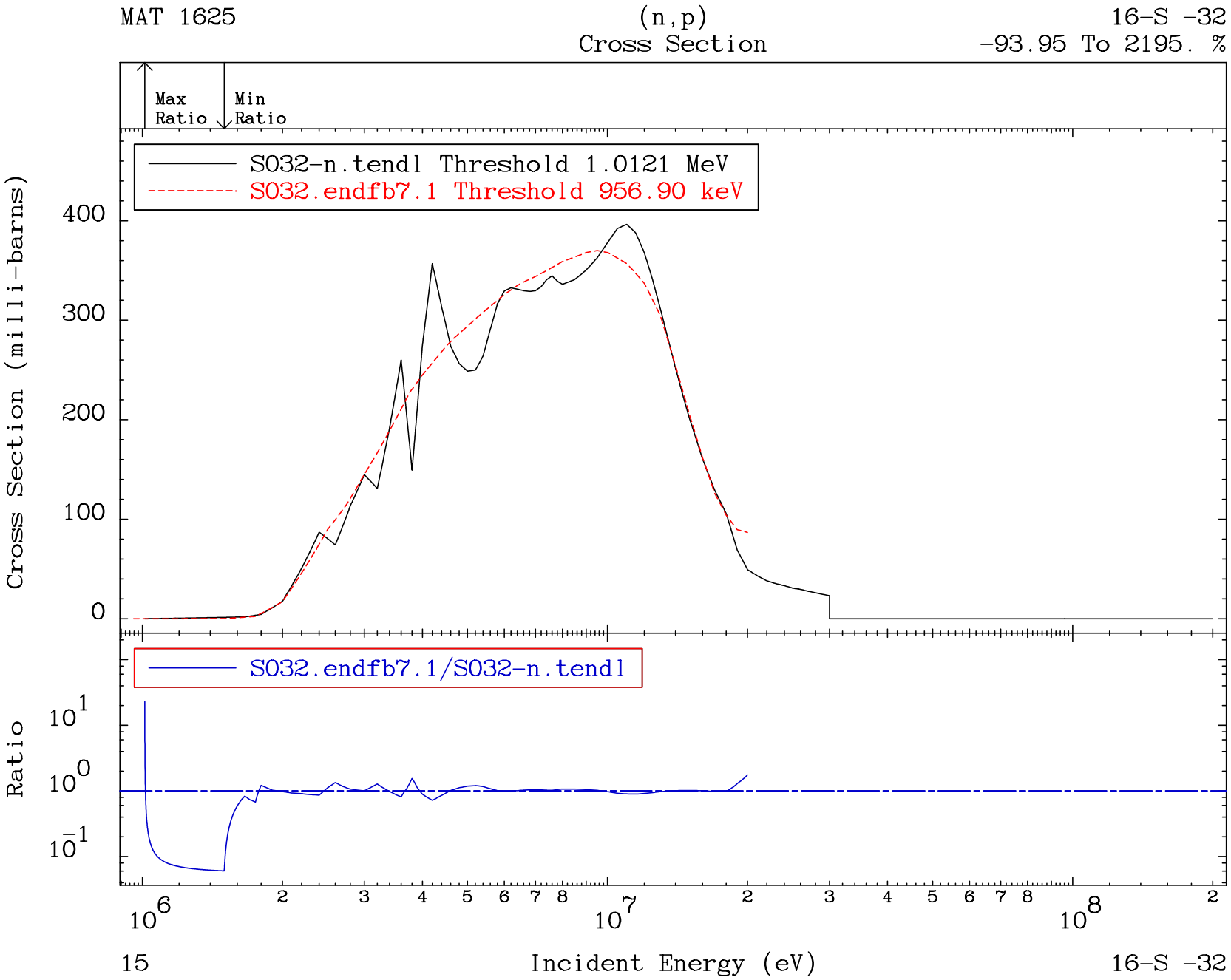

MAT 1625
4.459 MeV (n,n') Level
Cross Section
16-S -32
-70.84 To 481.4 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 4.5998 MeV
S032.endfb7.1 Threshold 4.5998 MeV
Cross Section (milli-barns)
60
40
20
0
S032.endfb7.1/S032-n.tendl
Ratio
10^1
10^0
6
4
6
4
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
10
Incident Energy (eV)
16-S -32

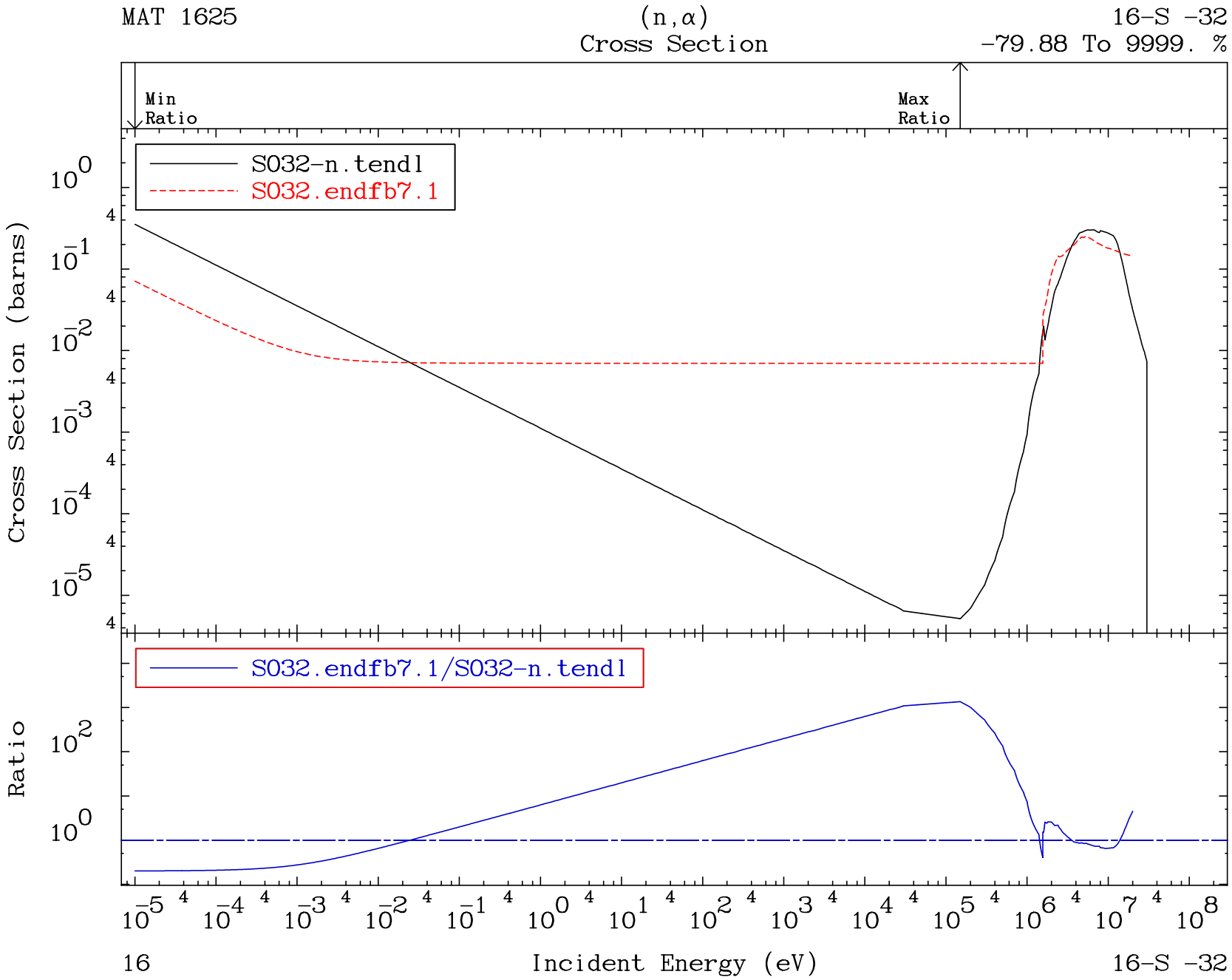

MAT 1625
4.695 MeV (n,n') Level
Cross Section
16-S -32
-62.79 To 159.1 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 4.8434 MeV
S032.endfb7.1 Threshold 4.8434 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
S032.endfb7.1/S032-n.tendl
Ratio
3.0
2.0
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
11
Incident Energy (eV)
16-S -32

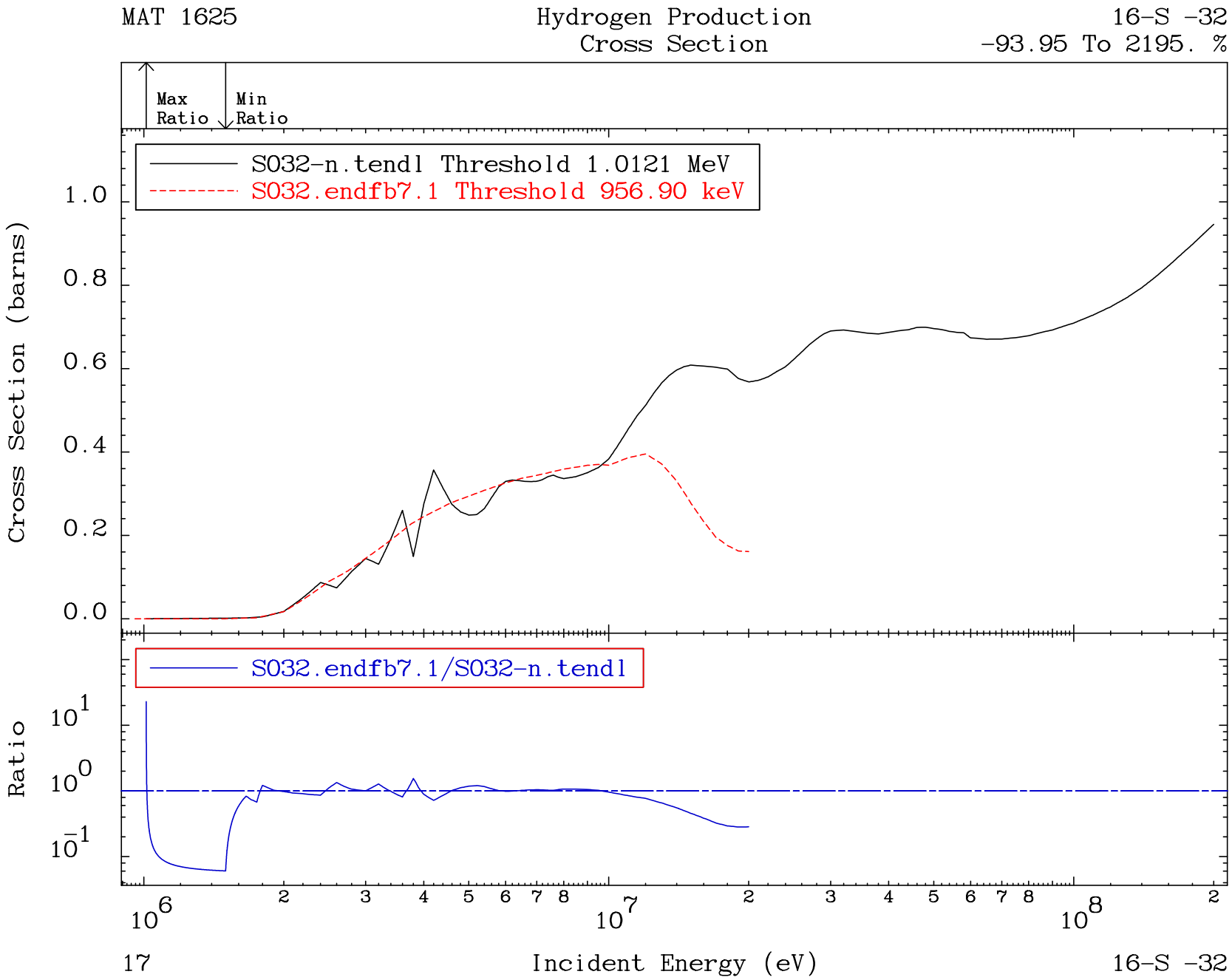

MAT 1625
5.006 MeV (n,n') Level
Cross Section
16-S -32
-86.57 To 117.9 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 5.1641 MeV
S032.endfb7.1 Threshold 5.1641 MeV
Cross Section (milli-barns)
80
60
40
20
0
S032.endfb7.1/S032-n.tendl
Ratio
4
2
10^0
6
4
2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
16-S -32

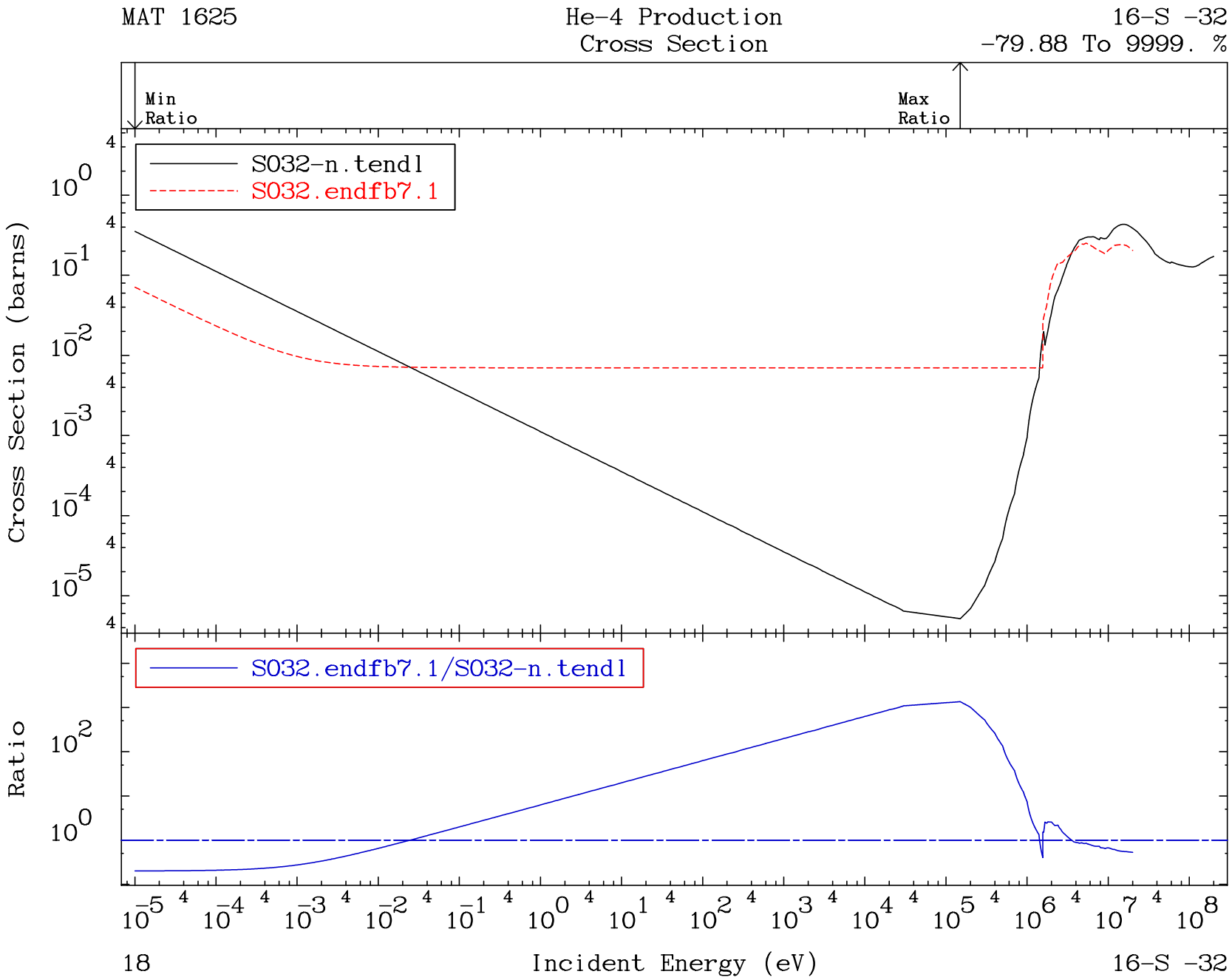

MAT 1625
(n,n') Continuum
Cross Section
16-S -32
2.798 To 4597. %
Max Ratio
Min Ratio
S032-n.tendl Threshold 7.9444 MeV
S032.endfb7.1 Threshold 5.5704 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
S032.endfb7.1/S032-n.tendl
Ratio
10^2
4
10^1
4
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
16-S -32

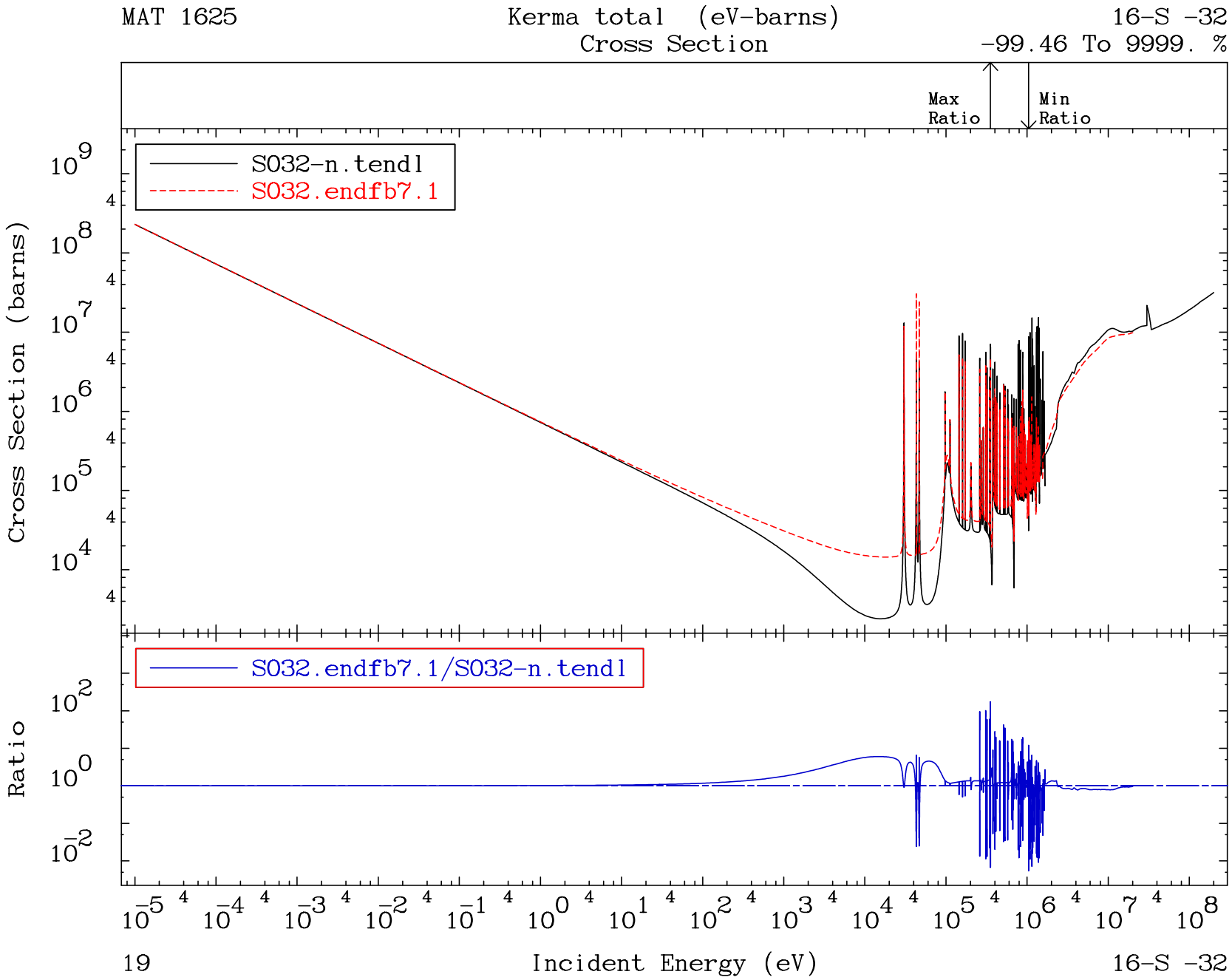

MAT 1625
(n,γ)
Cross Section
16-S -32
-100.0 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
14
16-S -32

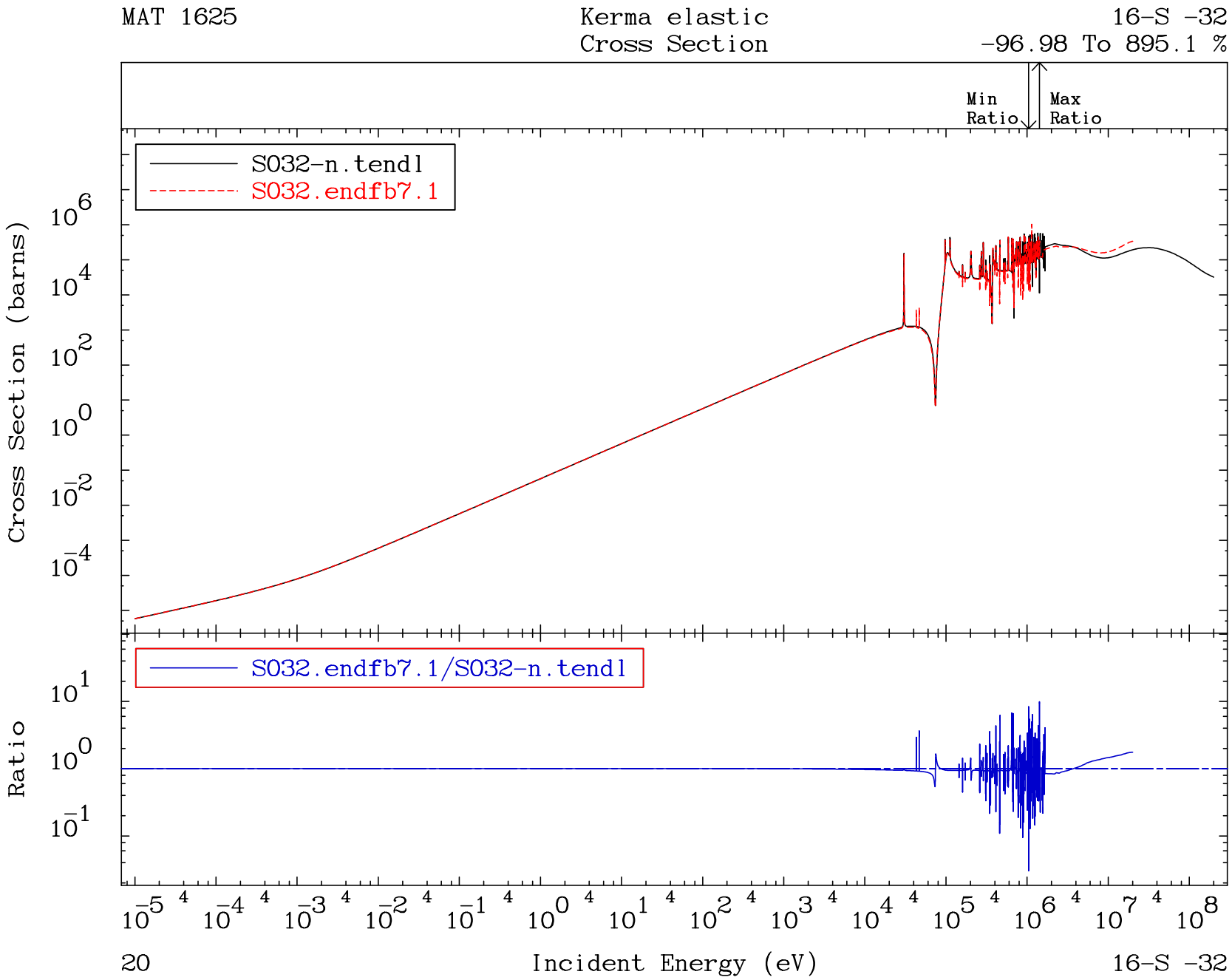

MAT 1625
(n,p)
Cross Section
16-S -32
-93.95 To 2195. %
Max Ratio
Min Ratio
S032-n.tendl Threshold 1.0121 MeV
S032.endfb7.1 Threshold 956.90 keV
Cross Section (milli-barns)
400
300
200
100
0
S032.endfb7.1/S032-n.tendl
Ratio
10^1
10^0
10^-1
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
16-S -32

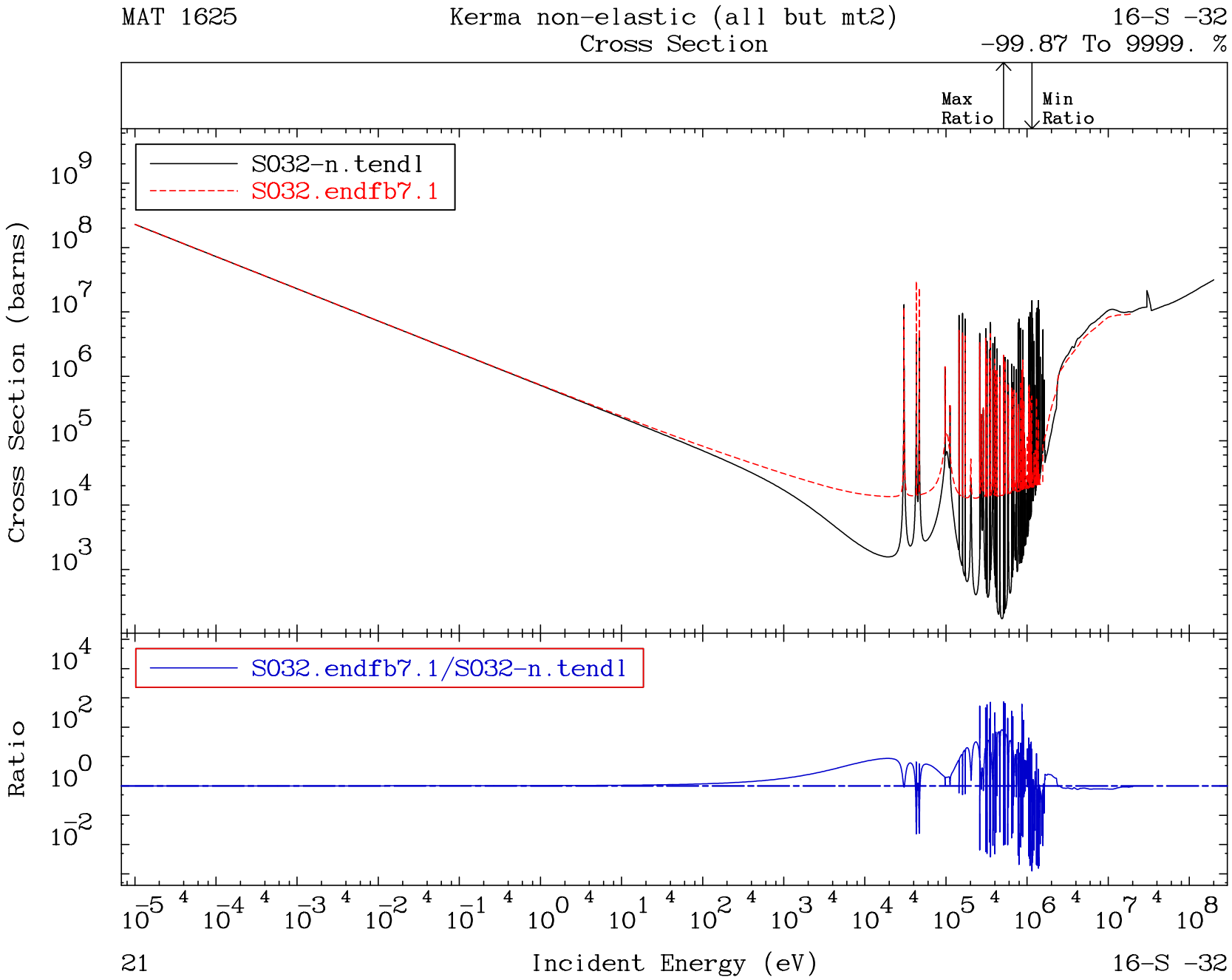

MAT 1625
(n,α)
Cross Section
16-S -32
-79.88 To 9999. %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
16
16-S -32

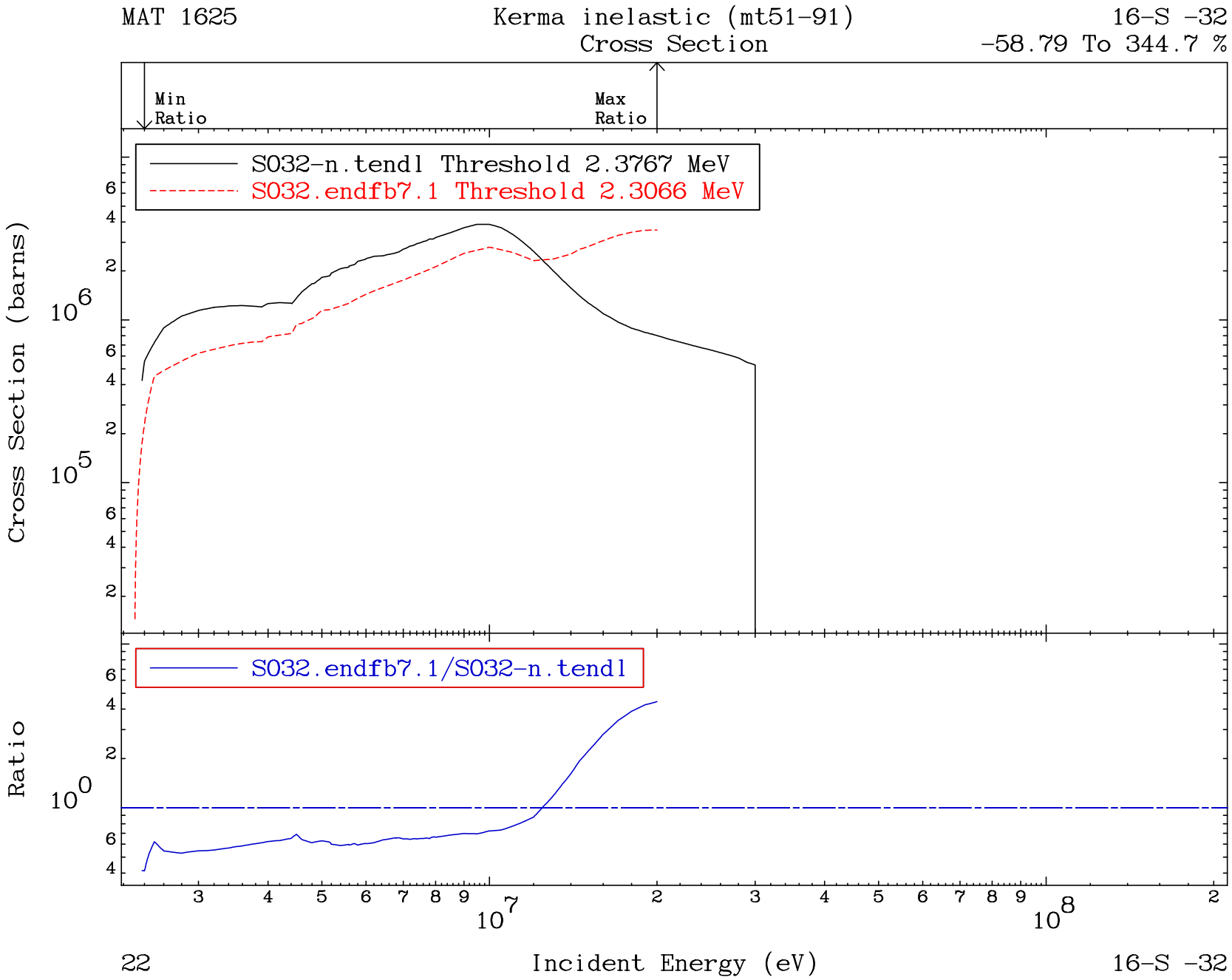

MAT 1625
Hydrogen Production
Cross Section
16-S -32
-93.95 To 2195. %
Max Ratio
Min Ratio
S032-n.tendl Threshold 1.0121 MeV
S032.endfb7.1 Threshold 956.90 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
S032.endfb7.1/S032-n.tendl
Ratio
10^1
10^0
10^-1
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
17
Incident Energy (eV)
16-S -32

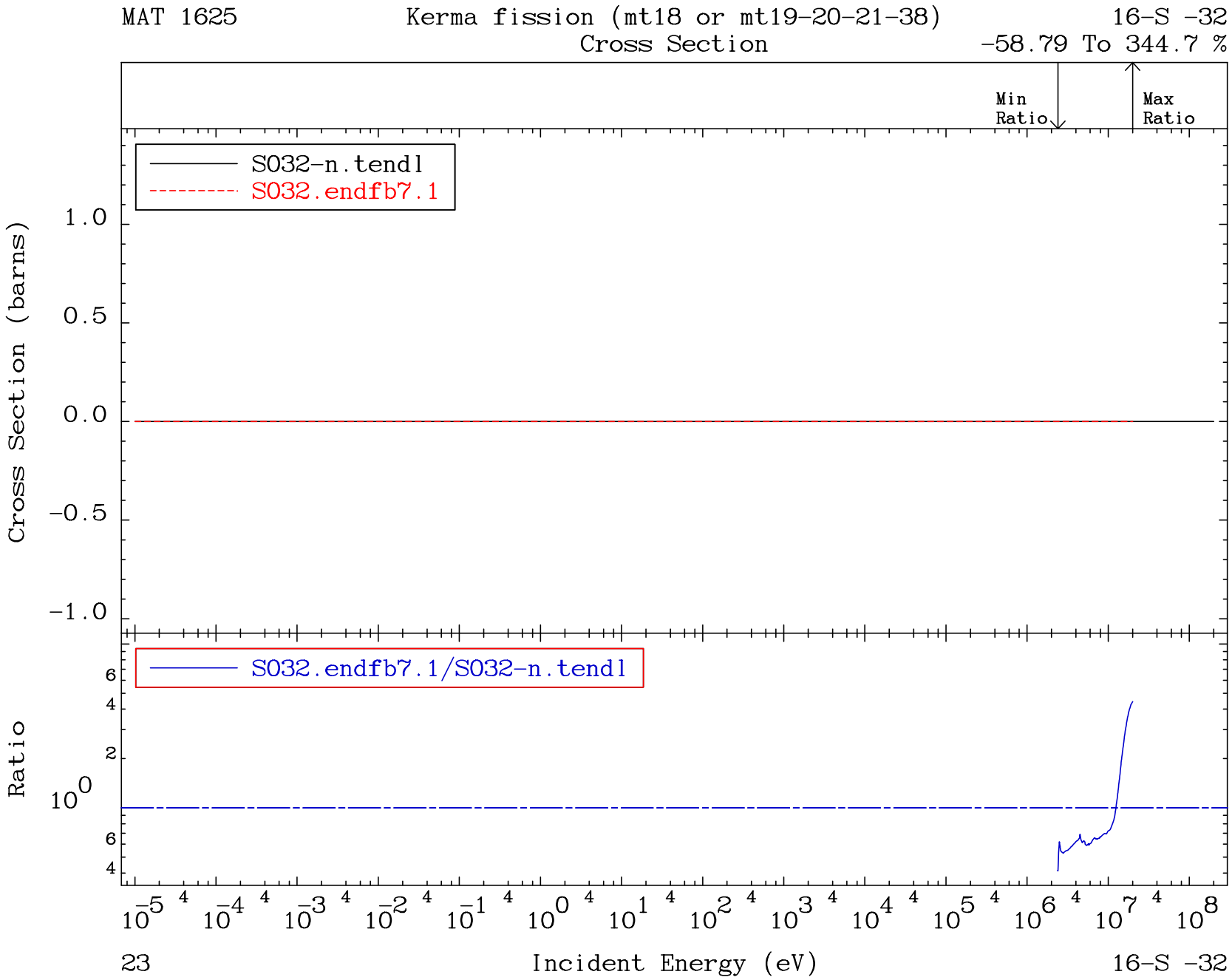

MAT 1625
He-4 Production
Cross Section
16-S -32
-79.88 To 9999. %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
18
16-S -32

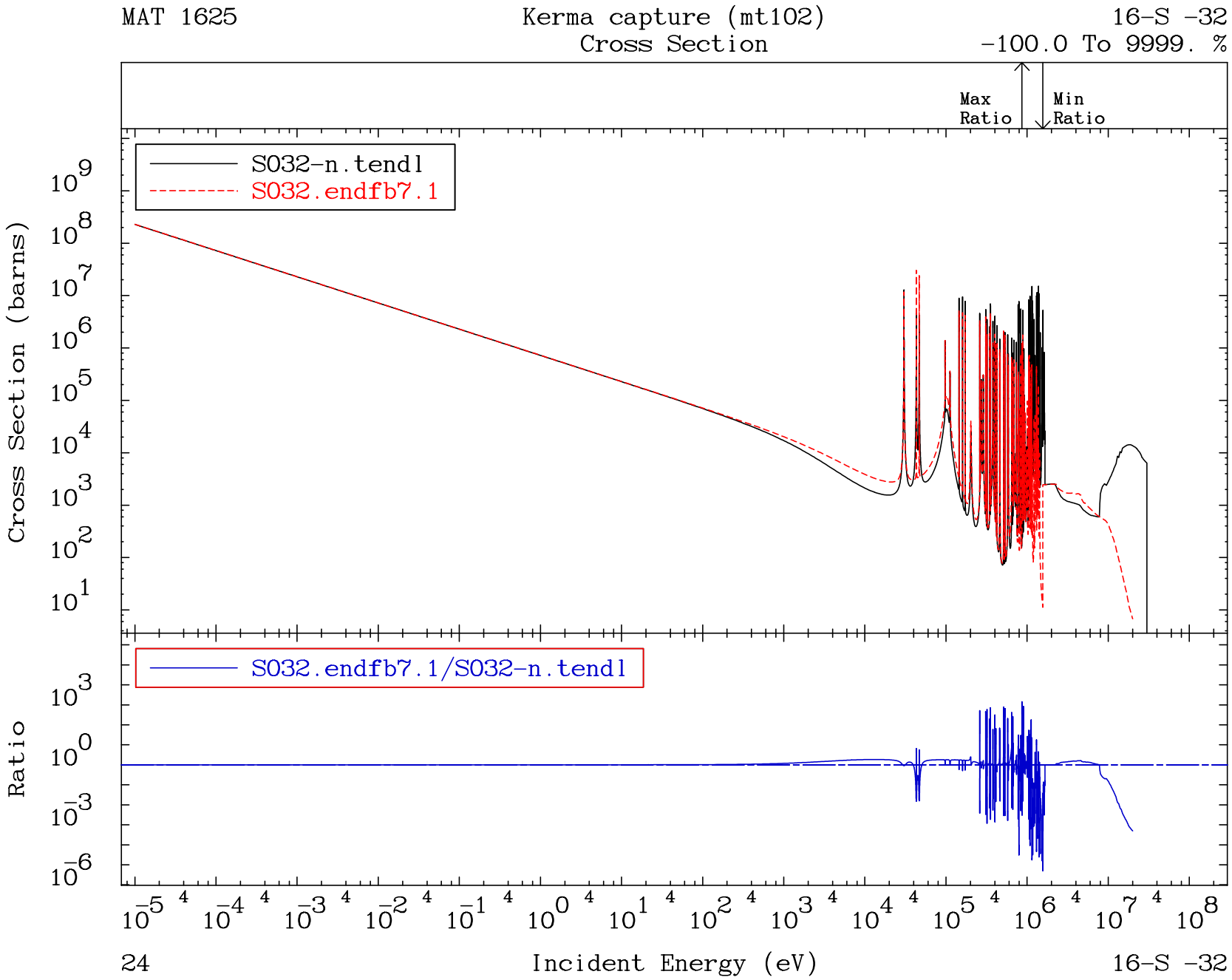

MAT 1625
Kerma total (eV-barns)
Cross Section
16-S -32
-99.46 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
19
16-S -32

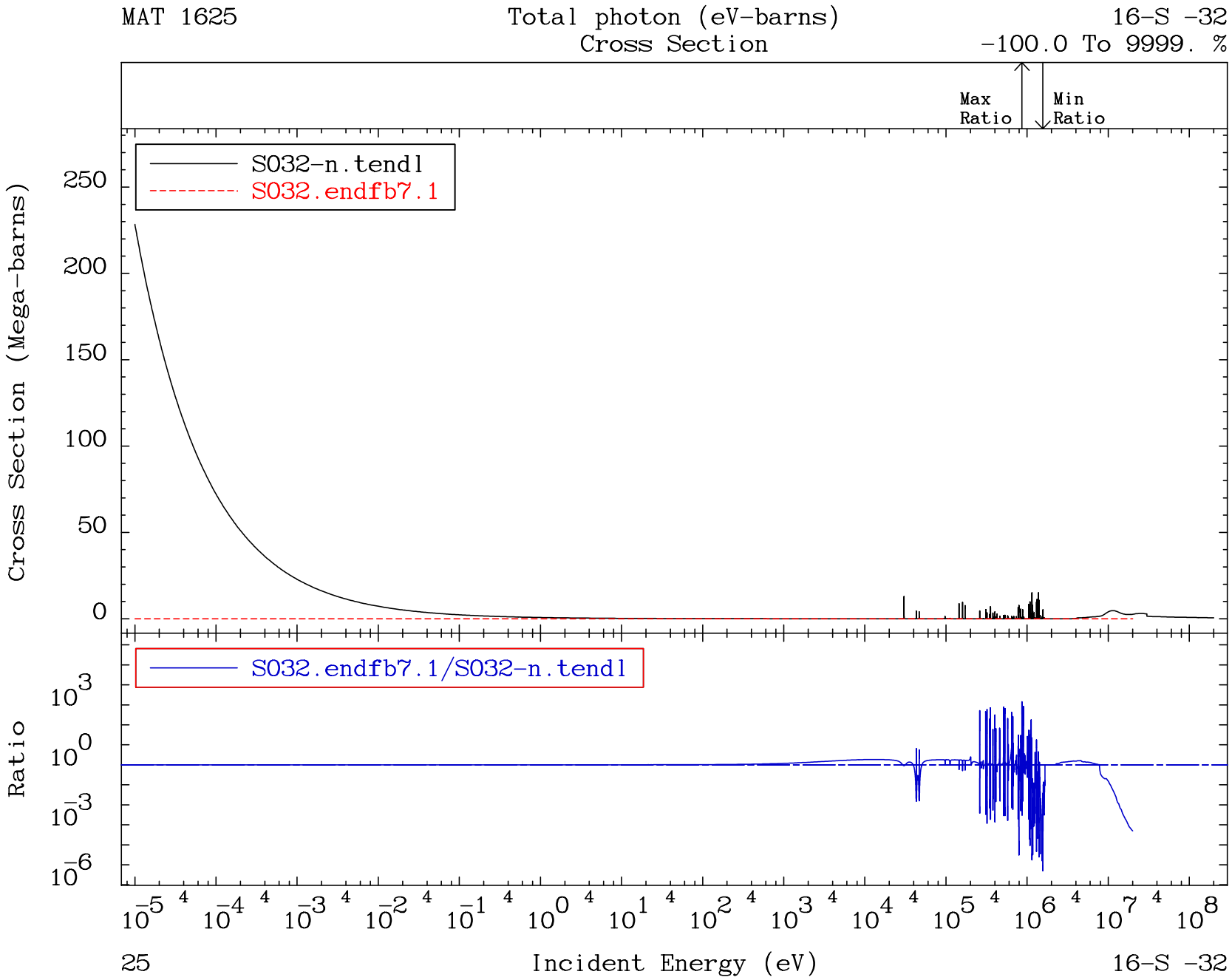

MAT 1625
Kerma elastic
Cross Section
16-S -32
-96.98 To 895.1 %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
20
16-S -32

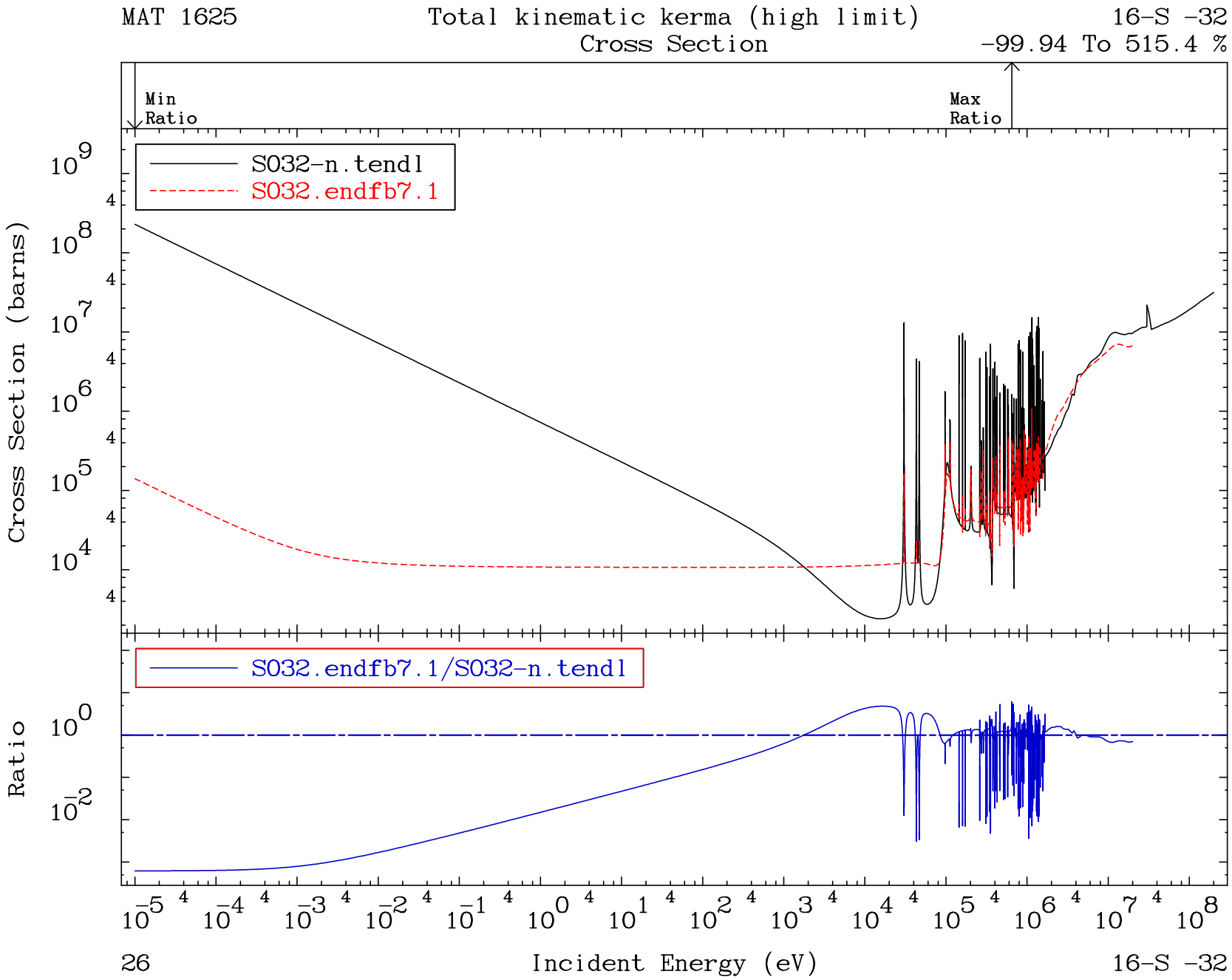

MAT 1625
Kerma non-elastic (all but mt2)
Cross Section
16-S -32
-99.87 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
21
16-S -32

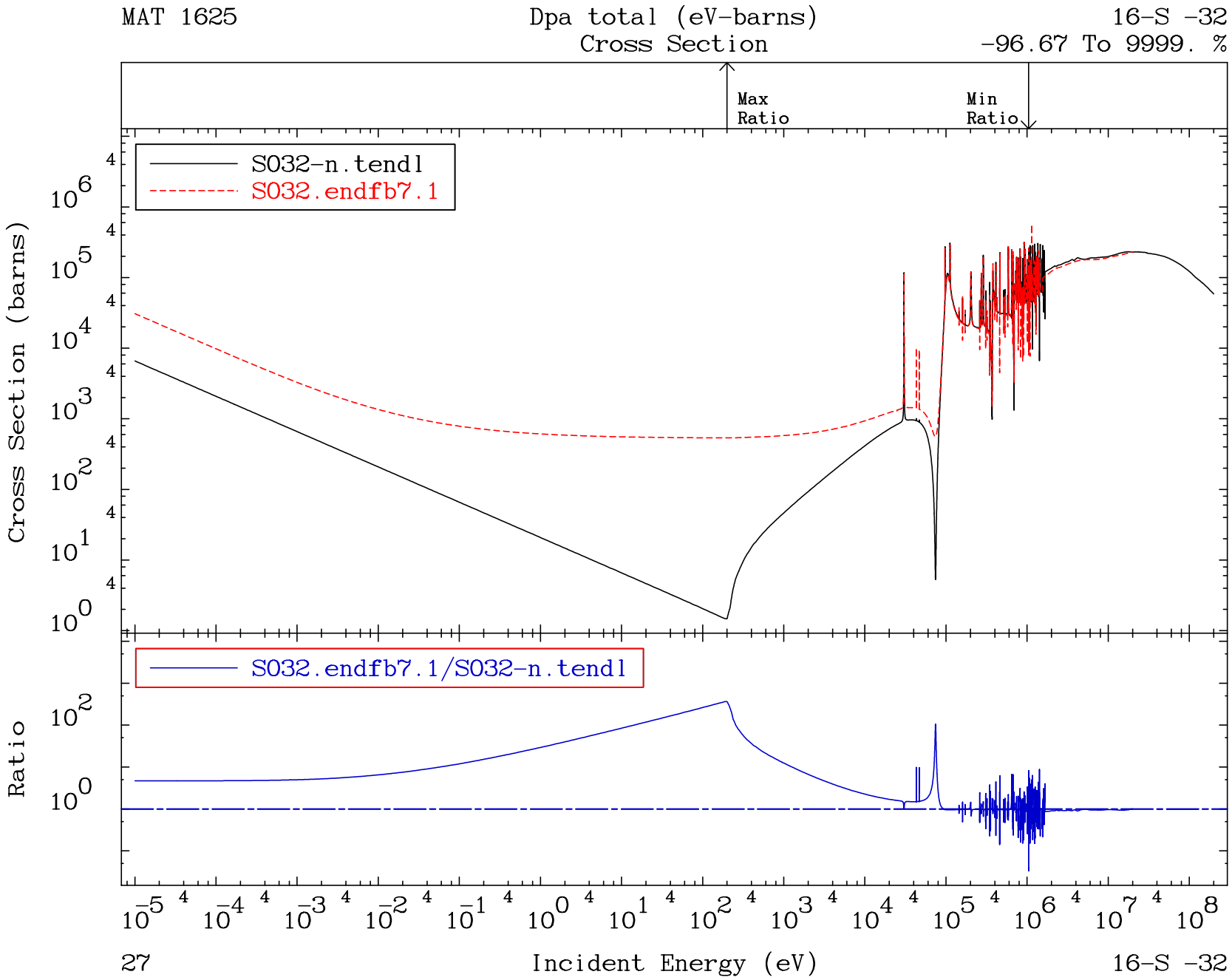

MAT 1625
Kerma inelastic (mt51-91)
Cross Section
16-S -32
-58.79 To 344.7 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 2.3767 MeV
S032.endfb7.1 Threshold 2.3066 MeV
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
22
16-S -32

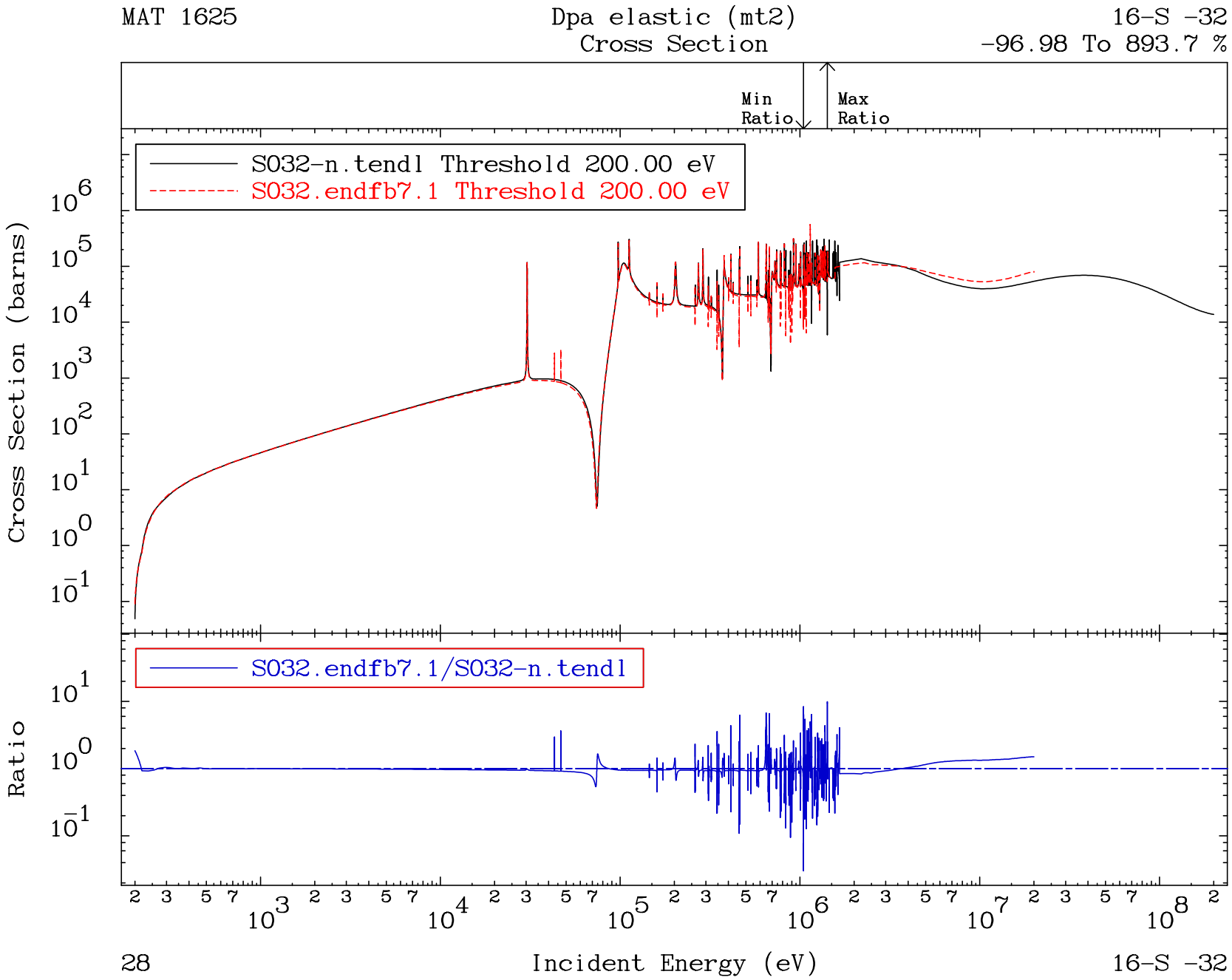

MAT 1625
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
16-S -32
-58.79 To 344.7 %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
S032.endfb7.1/S032-n.tendl
Ratio
10^0
6
4
2
6
4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
23
Incident Energy (eV)
16-S -32

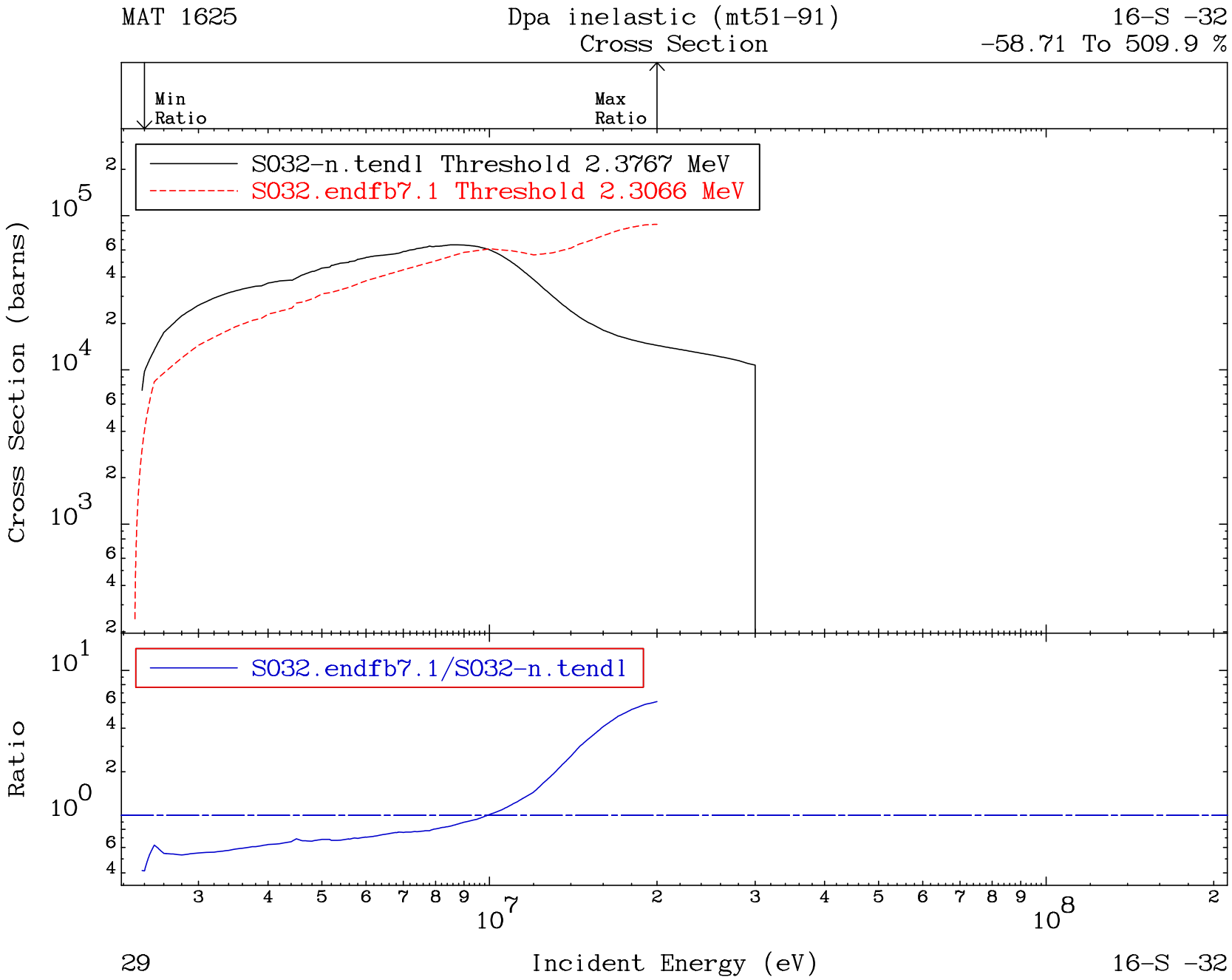

MAT 1625
Kerma capture (mt102)
Cross Section
16-S -32
-100.0 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
24
16-S -32

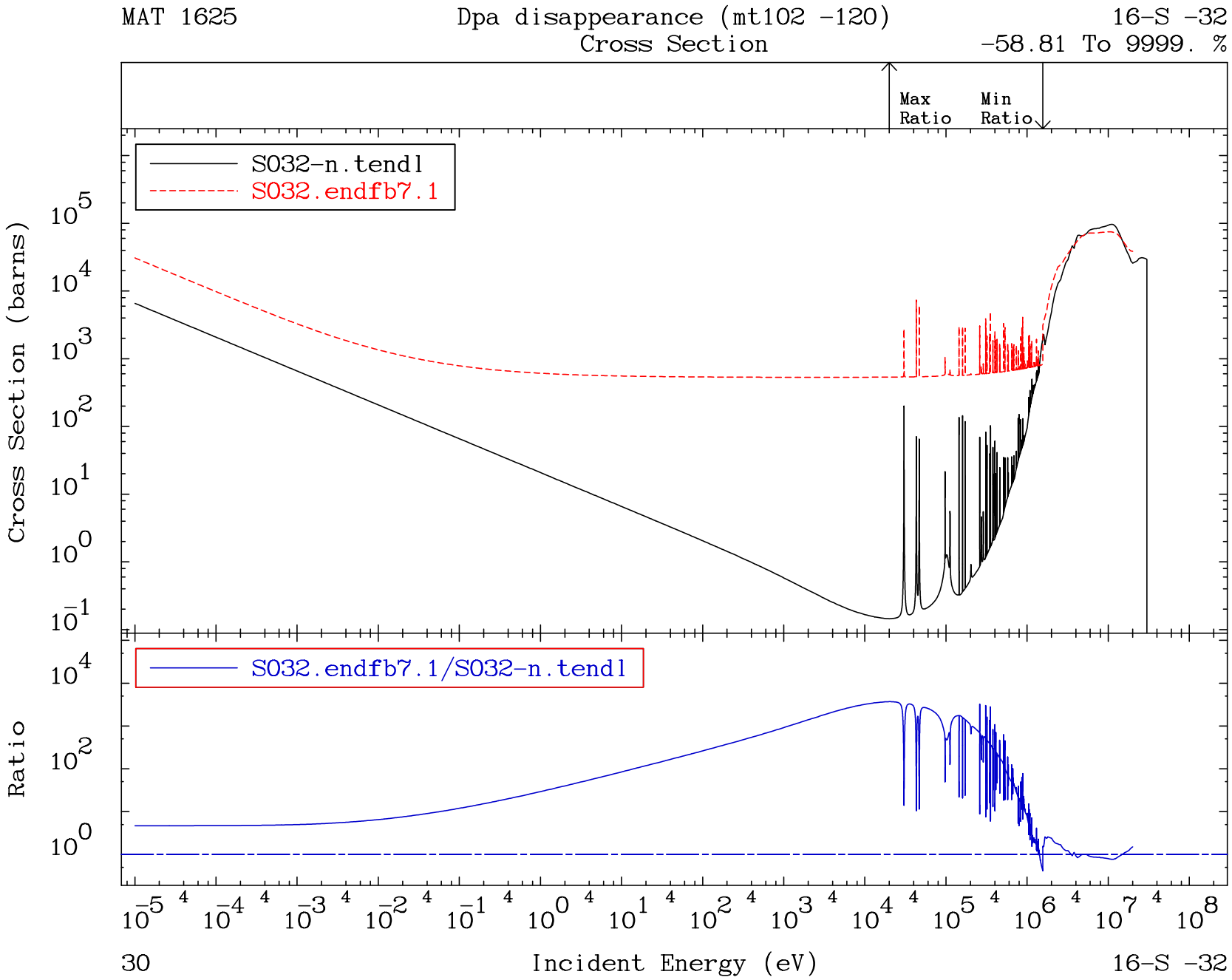

MAT 1625
Total photon (eV-barns)
Cross Section
16-S -32
-100.0 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (Mega-barns)
250
200
150
100
50
0
S032.endfb7.1/S032-n.tendl
Ratio
10^3
10^0
10^-3
10^-6
10^-5
10^-4
10^-3
10^-2
10^-1
10^0
10^1
10^2
10^3
10^4
10^5
10^6
10^7
10^8
25
Incident Energy (eV)
16-S -32


MAT 1625
Total kinematic kerma (high limit)
Cross Section
16-S -32
-99.94 To 515.4 %
Min Ratio
Max Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
26
16-S -32


MAT 1625
Dpa total (eV-barns)
Cross Section
16-S -32
-96.67 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
27
16-S -32


MAT 1625
Dpa elastic (mt2)
Cross Section
16-S -32
-96.98 To 893.7 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 200.00 eV
S032.endfb7.1 Threshold 200.00 eV
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
28
16-S -32


MAT 1625
Dpa inelastic (mt51-91)
Cross Section
16-S -32
-58.71 To 509.9 %
Min Ratio
Max Ratio
S032-n.tendl Threshold 2.3767 MeV
S032.endfb7.1 Threshold 2.3066 MeV
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
29
16-S -32


MAT 1625
Dpa disappearance (mt102 -120)
Cross Section
16-S -32
-58.81 To 9999. %
Max Ratio
Min Ratio
S032-n.tendl
S032.endfb7.1
Cross Section (barns)
S032.endfb7.1/S032-n.tendl
Ratio
Incident Energy (eV)
30
16-S -32