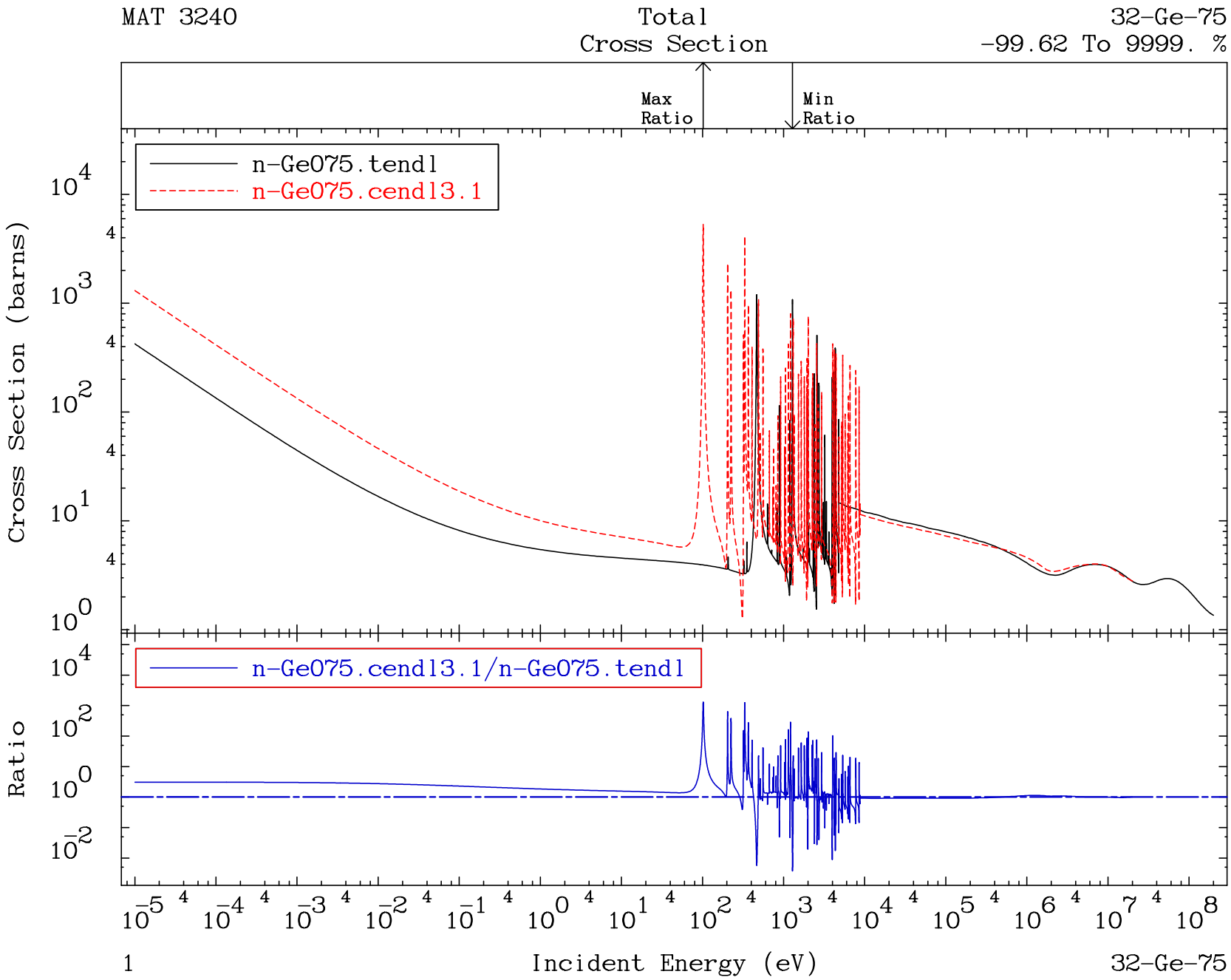
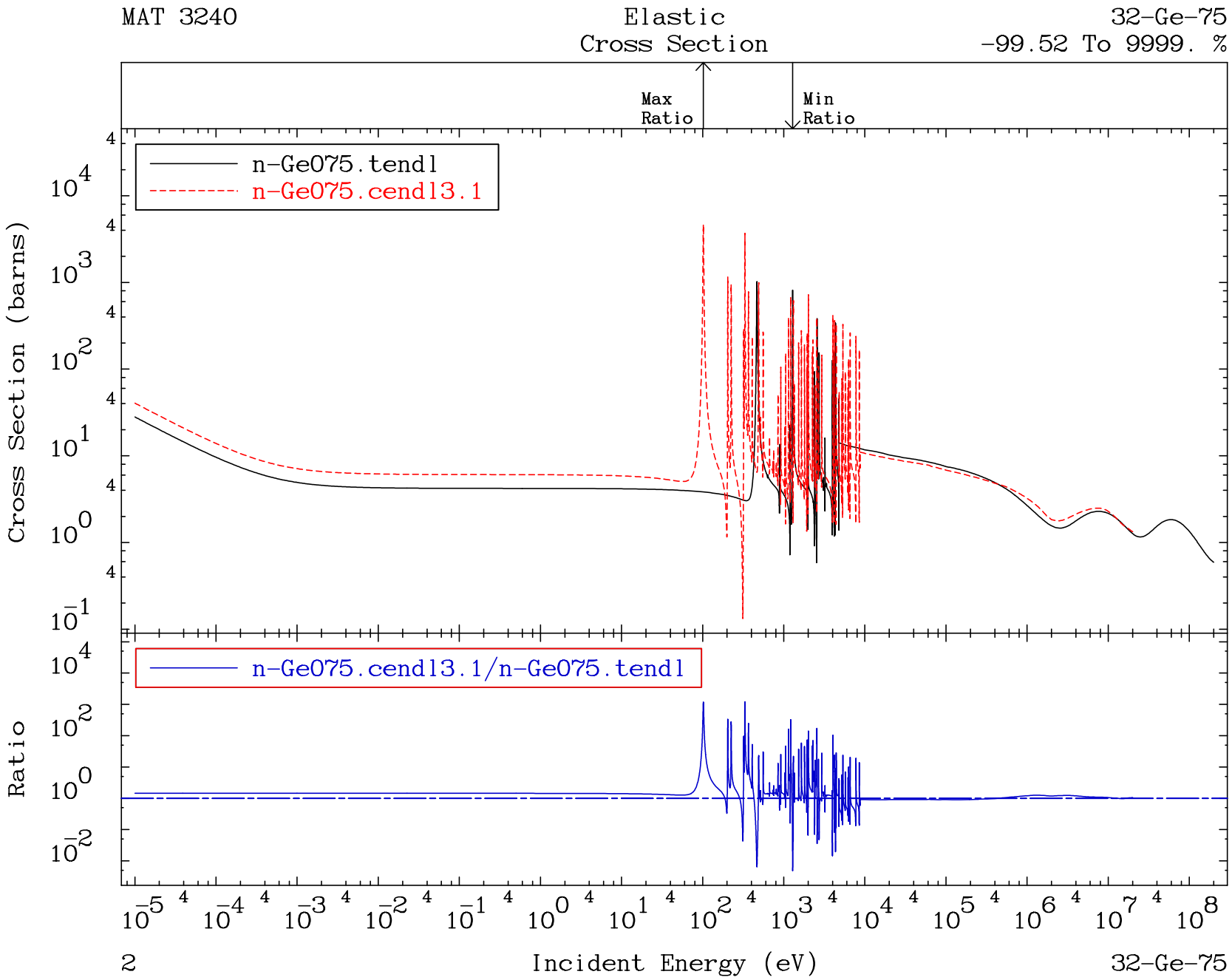
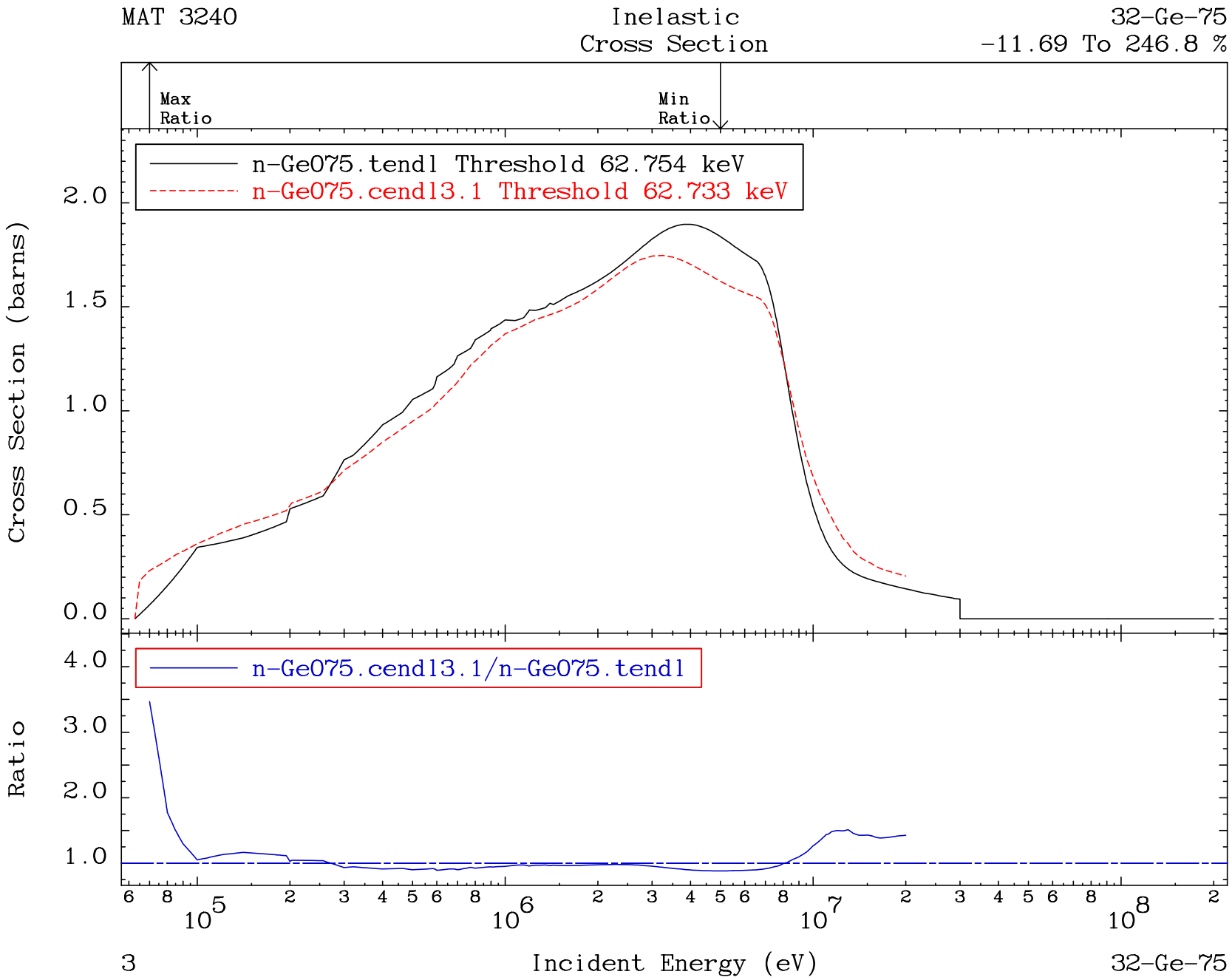
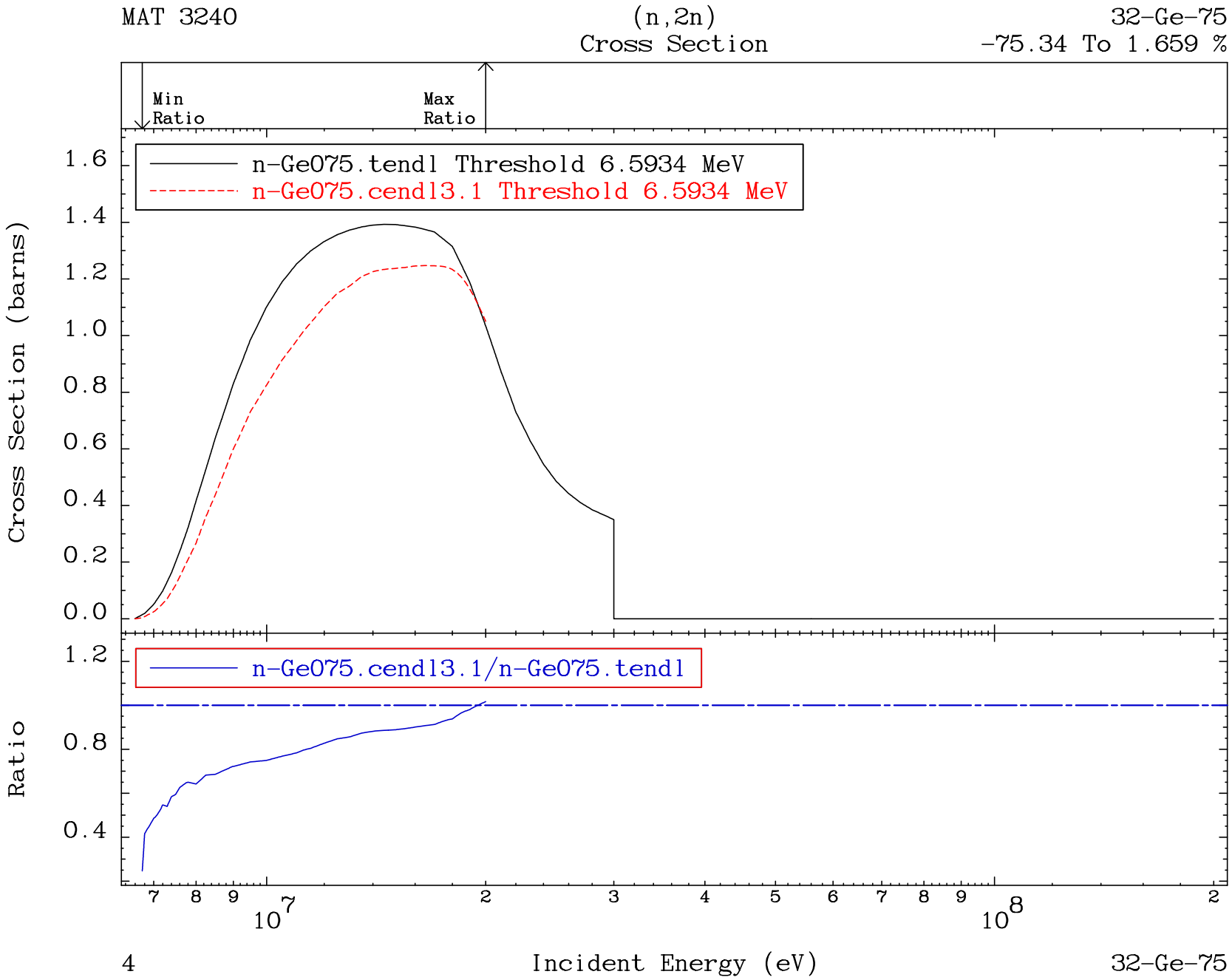
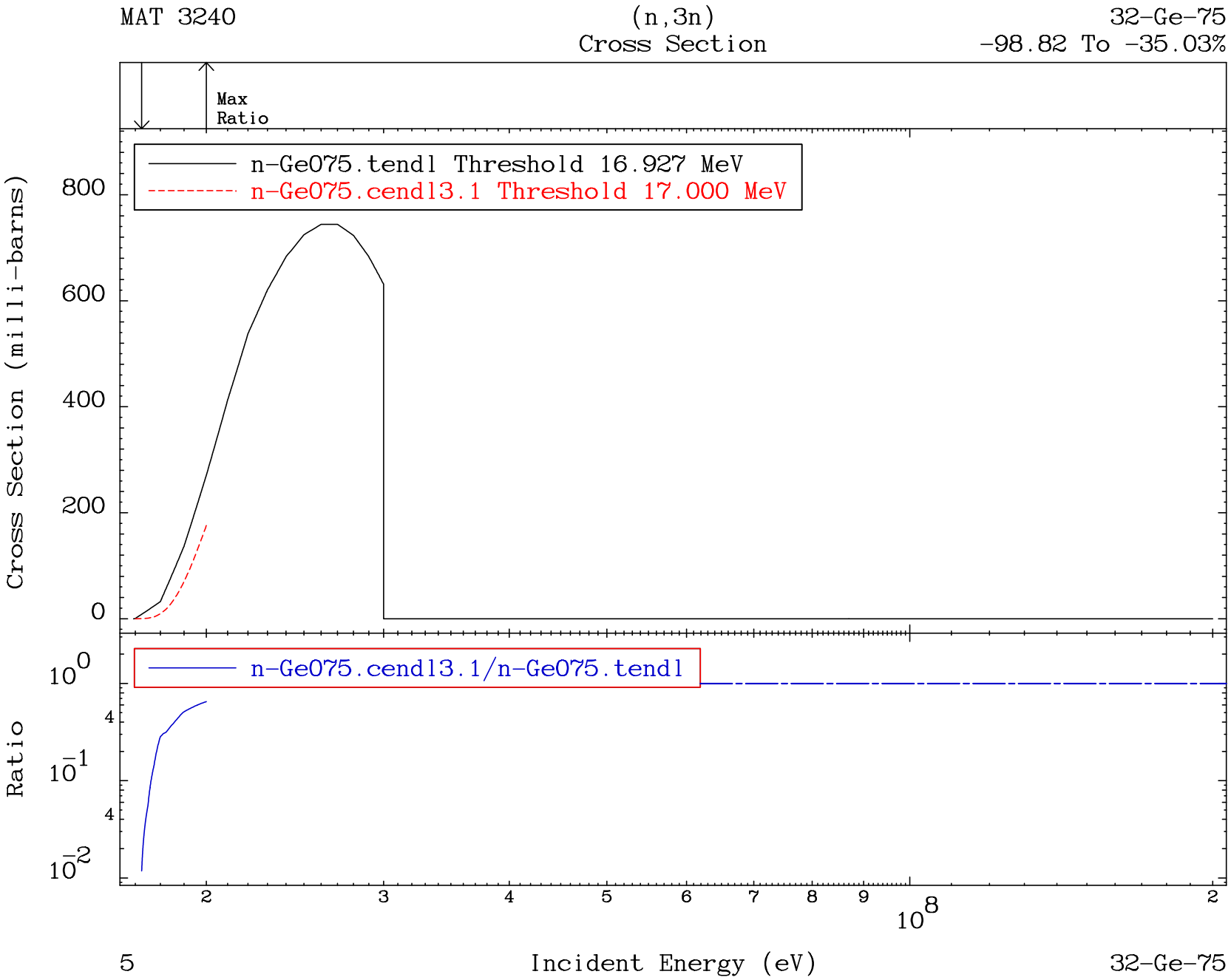
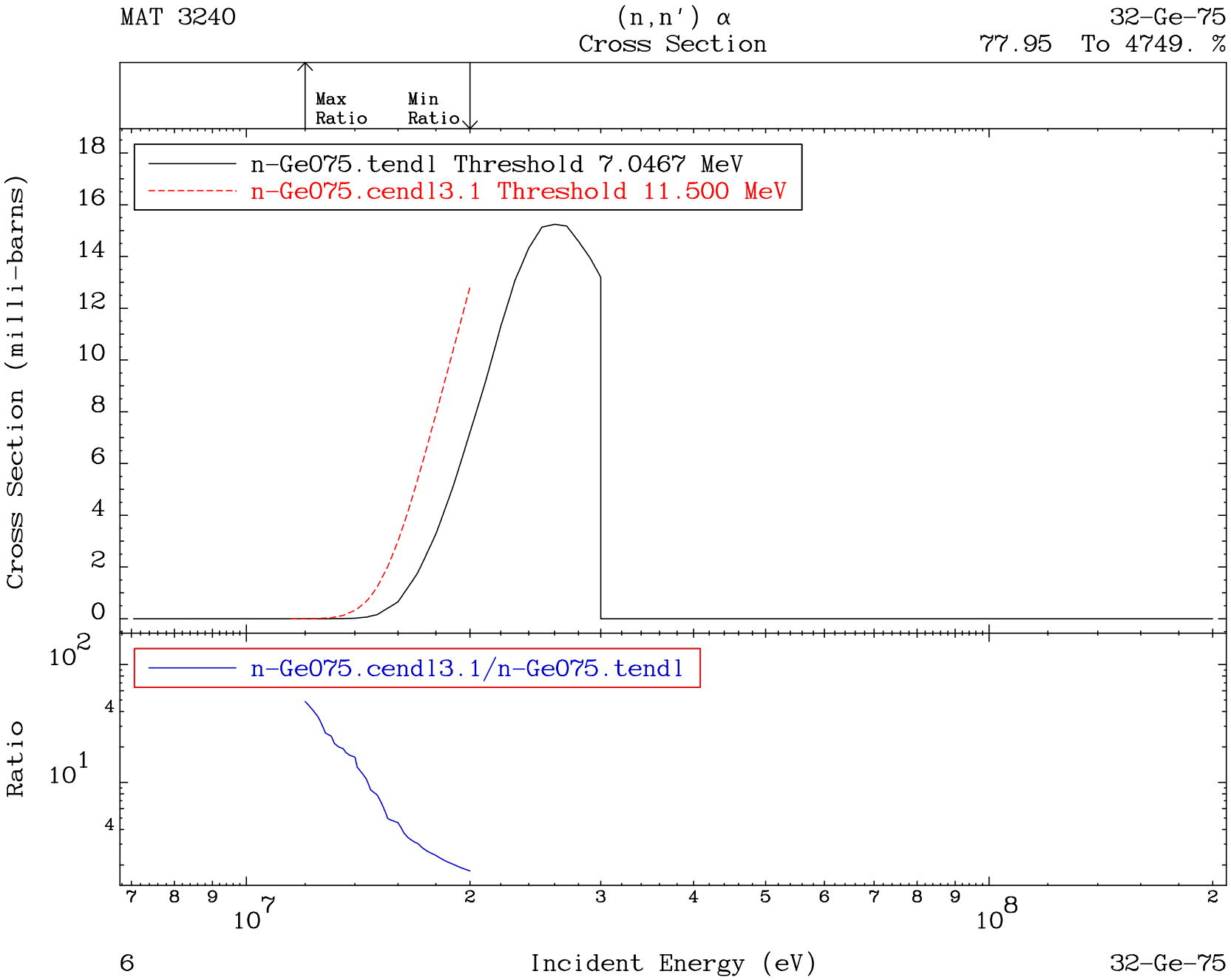

MAT 3240
Total
Cross Section
32-Ge-75
-99.62 To 9999. %
Max
Ratio
Min
Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
1
32-Ge-75

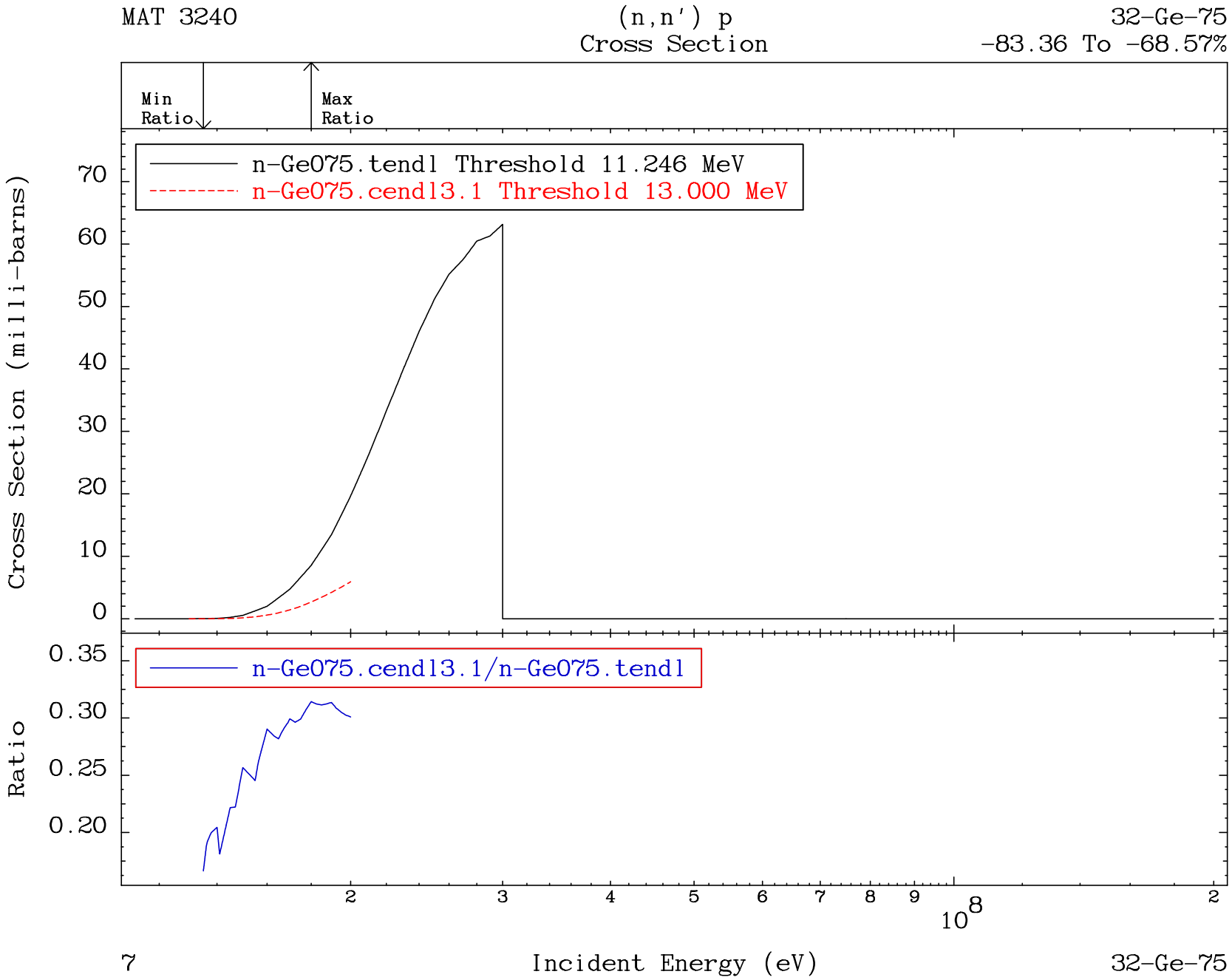

MAT 3240
Elastic
Cross Section
32-Ge-75
-99.52 To 9999. %
Max
Ratio
Min
Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
2
32-Ge-75

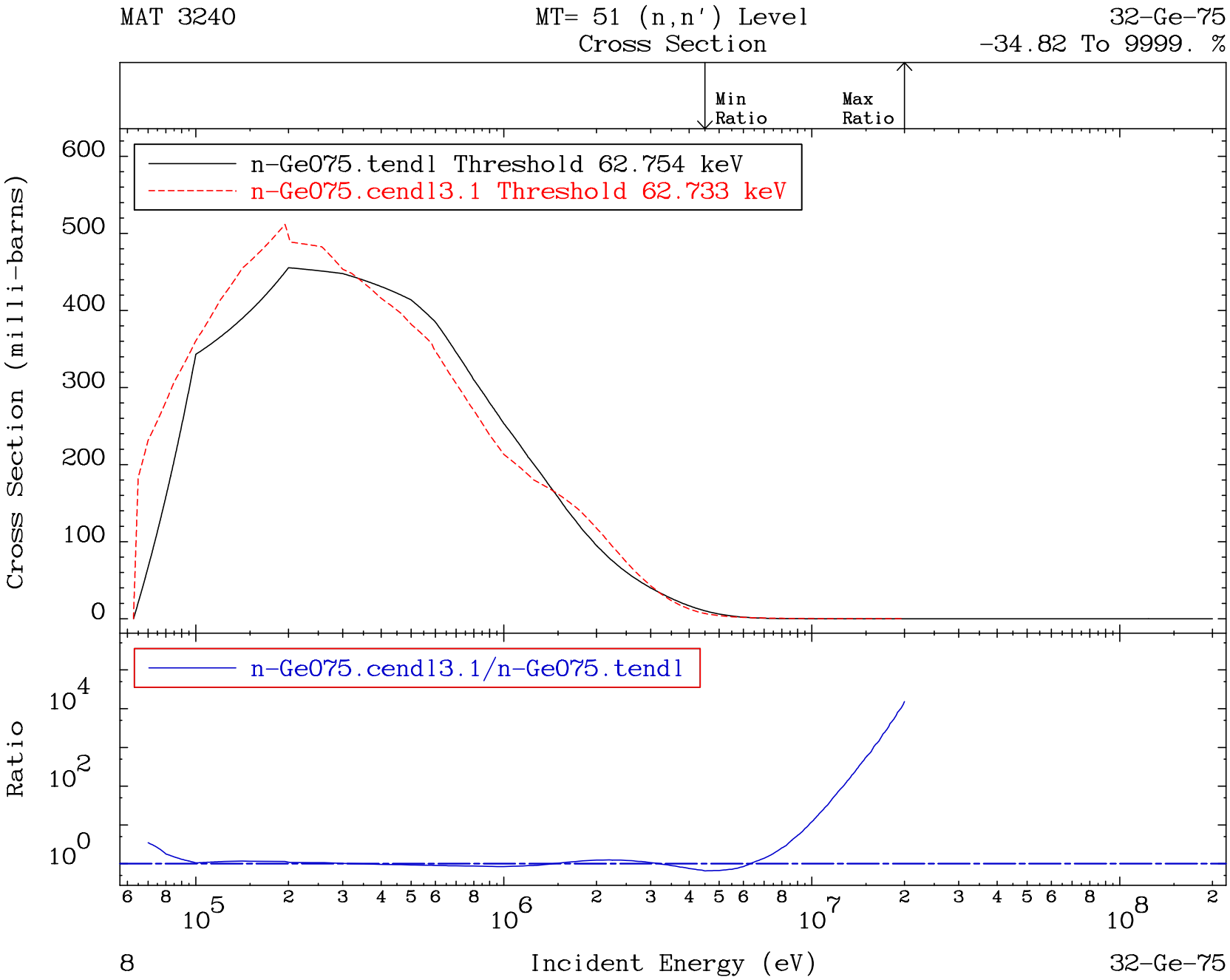

MAT 3240
Inelastic
Cross Section
32-Ge-75
-11.69 To 246.8 %
Max
Ratio
Min
Ratio
n-Ge075.tendl Threshold 62.754 keV
n-Ge075.cendl3.1 Threshold 62.733 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
4.0
3.0
2.0
1.0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
32-Ge-75

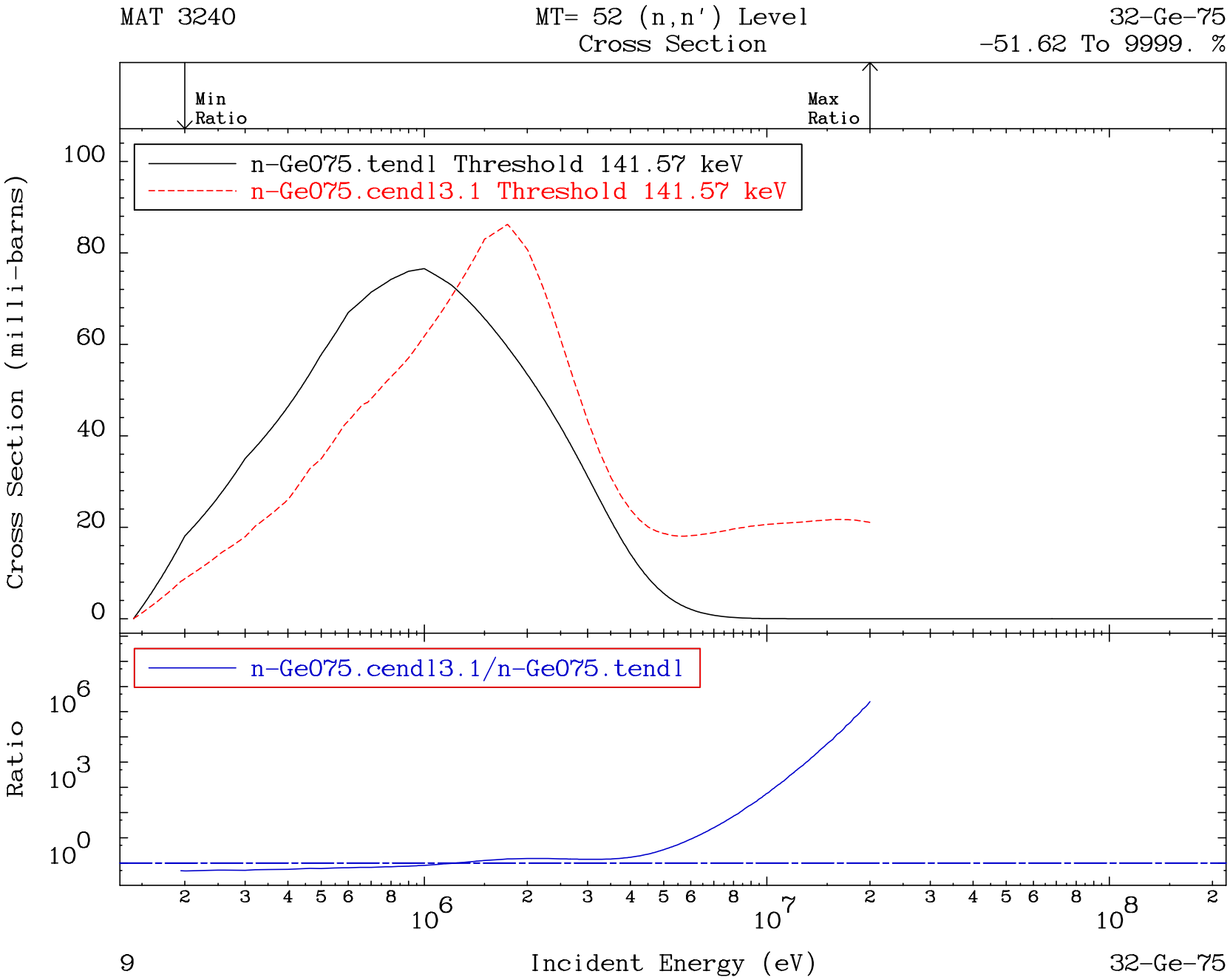

MAT 3240
(n,2n)
Cross Section
32-Ge-75
-75.34 To 1.659 %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 6.5934 MeV
n-Ge075.cendl3.1 Threshold 6.5934 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
1.2
0.8
0.4
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
4
Incident Energy (eV)
32-Ge-75

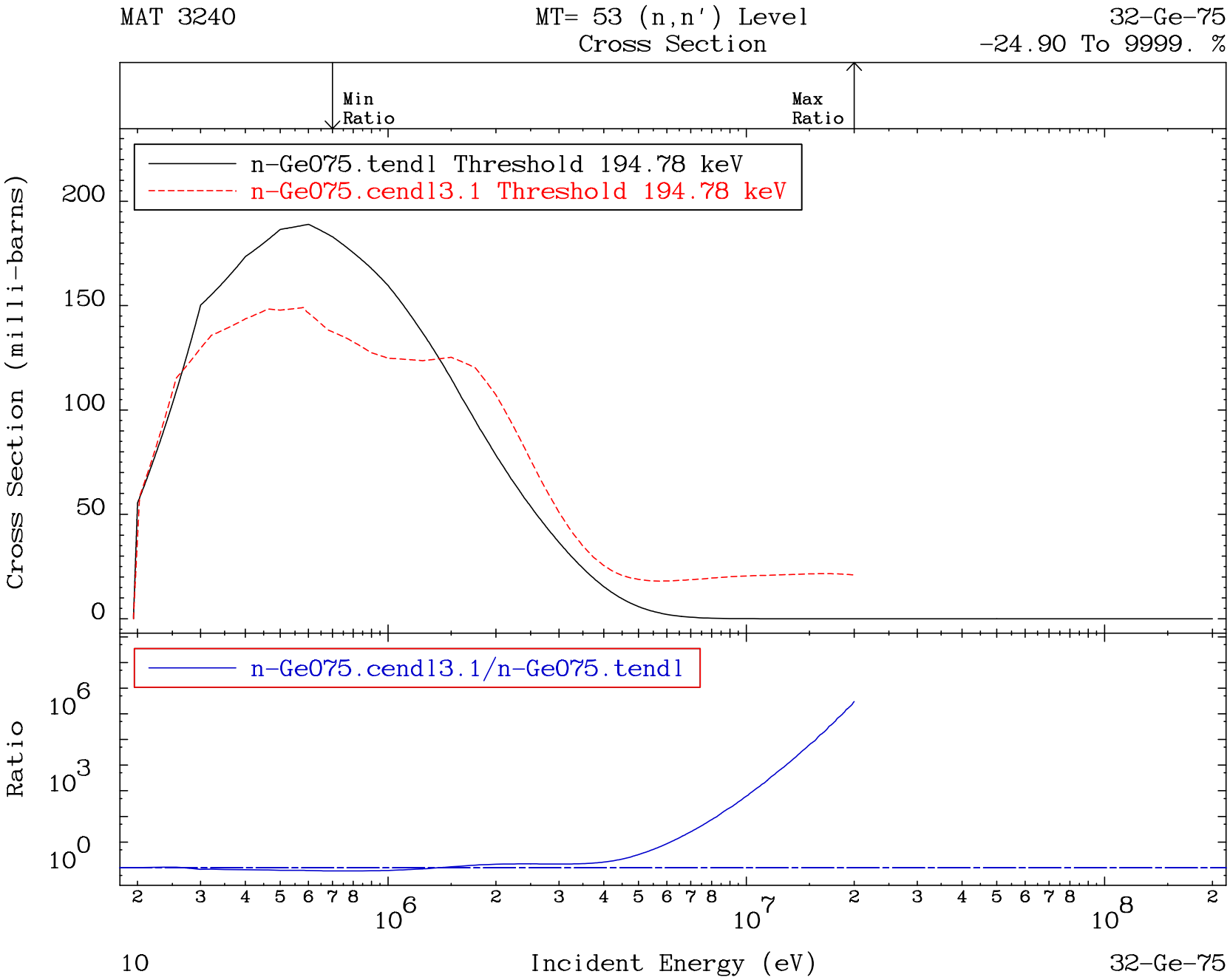

MAT 3240
(n,3n)
Cross Section
32-Ge-75
-98.82 To -35.03%
Max
Ratio
n-Ge075.tendl Threshold 16.927 MeV
n-Ge075.cendl3.1 Threshold 17.000 MeV
Cross Section (milli-barns)
800
600
400
200
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
9
10^8
5
Incident Energy (eV)
32-Ge-75

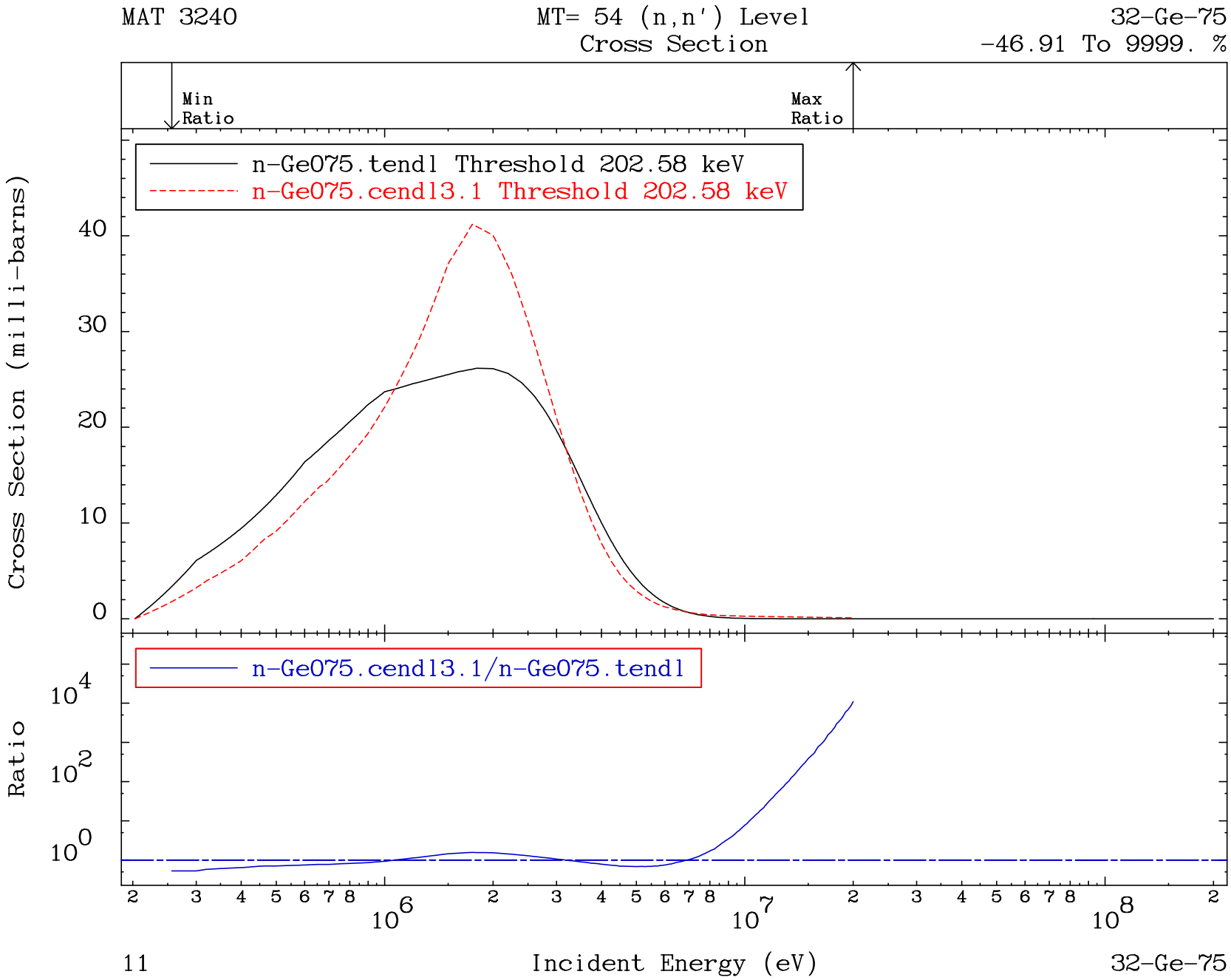

MAT 3240
(n,n') α
Cross Section
32-Ge-75
77.95 To 4749. %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 7.0467 MeV
n-Ge075.cendl3.1 Threshold 11.500 MeV
Cross Section (milli-barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
6
32-Ge-75

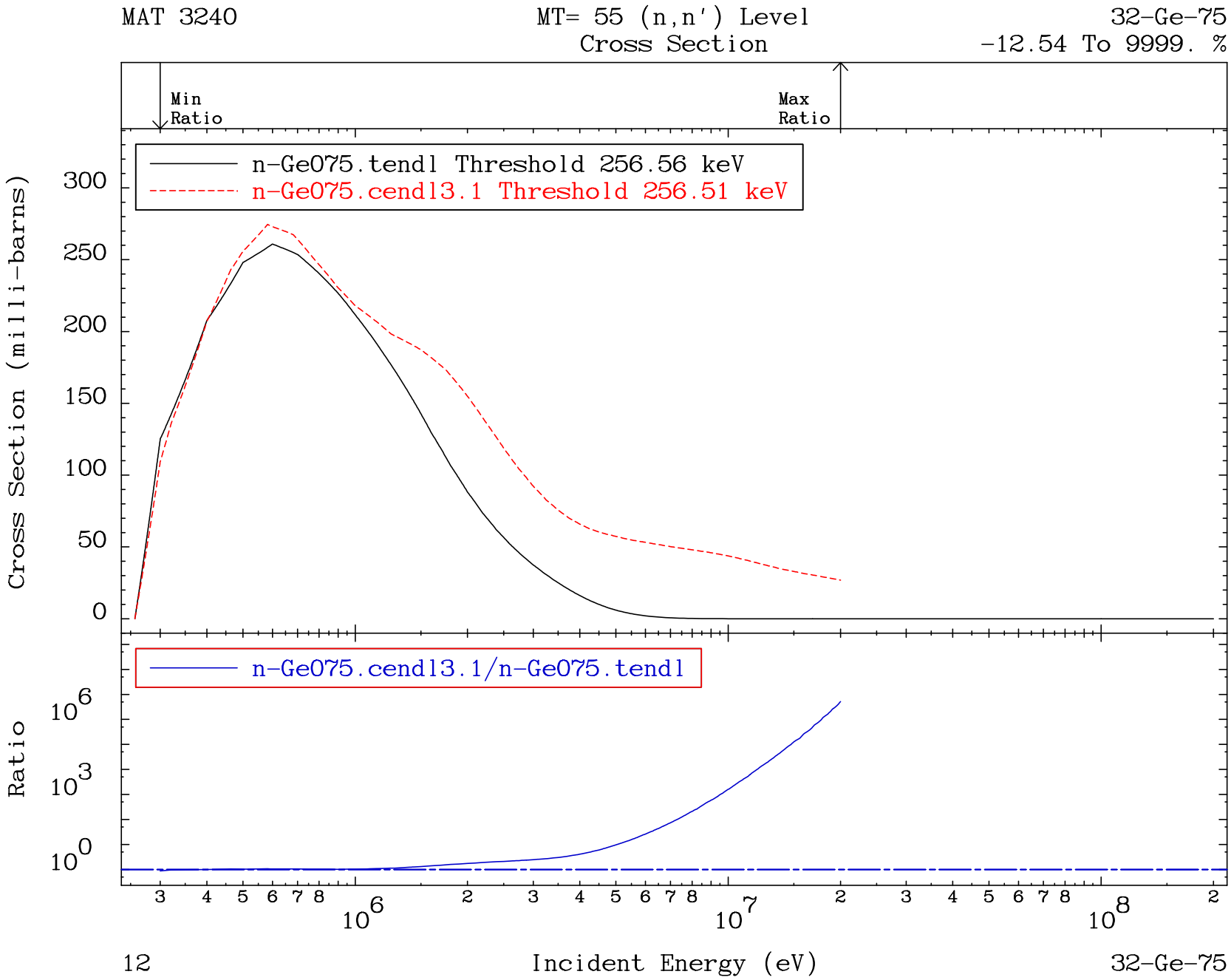

MAT 3240
(n,n') p
Cross Section
32-Ge-75
-83.36 To -68.57%
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 11.246 MeV
n-Ge075.cendl3.1 Threshold 13.000 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
0.35
0.30
0.25
0.20
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
32-Ge-75

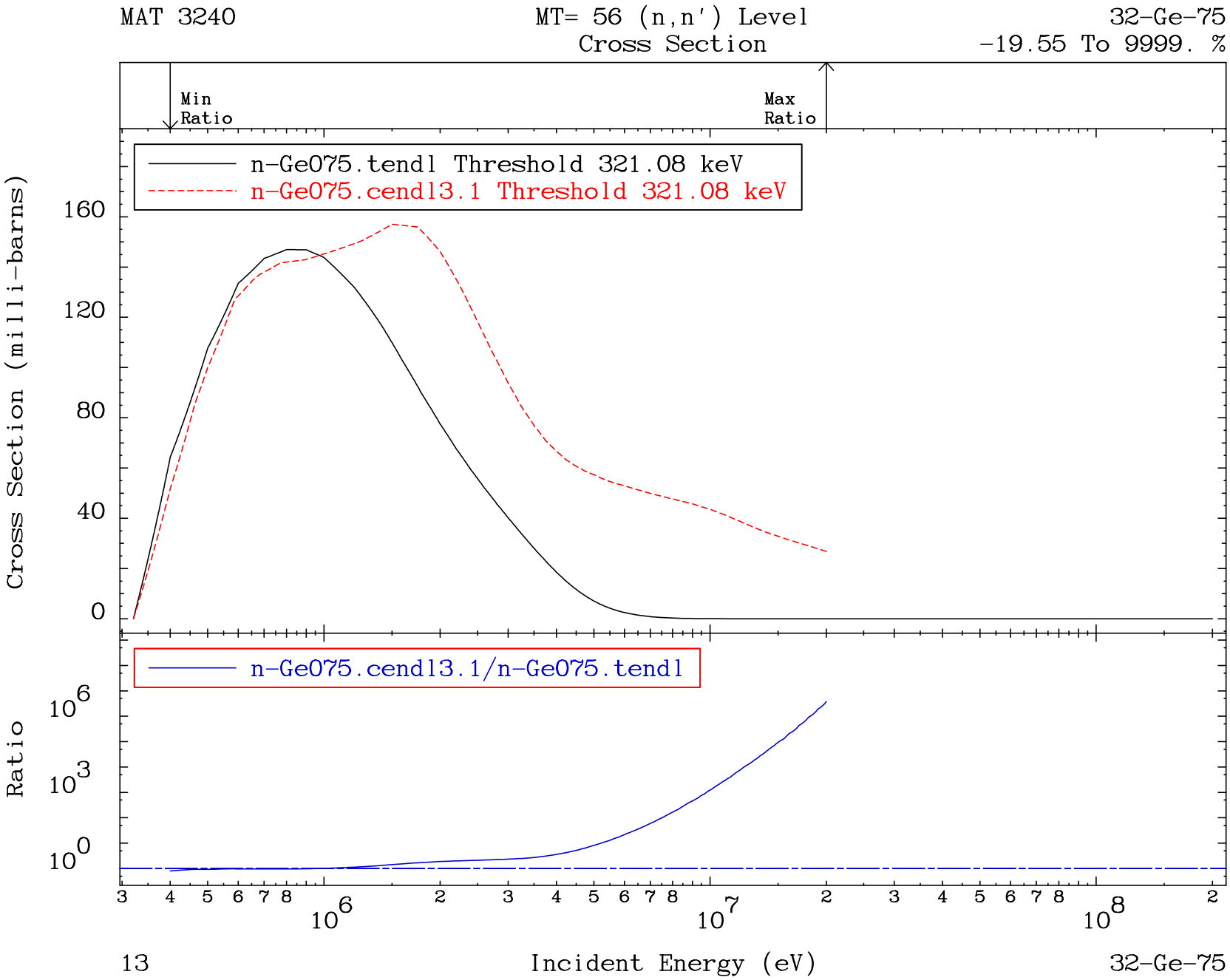

MAT 3240
MT= 51 (n,n') Level
Cross Section
32-Ge-75
-34.82 To 9999. %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 62.754 keV
n-Ge075.cendl3.1 Threshold 62.733 keV
Cross Section (milli-barns)
600
500
400
300
200
100
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^4
10^2
10^0
6 8 10^5 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
8
32-Ge-75

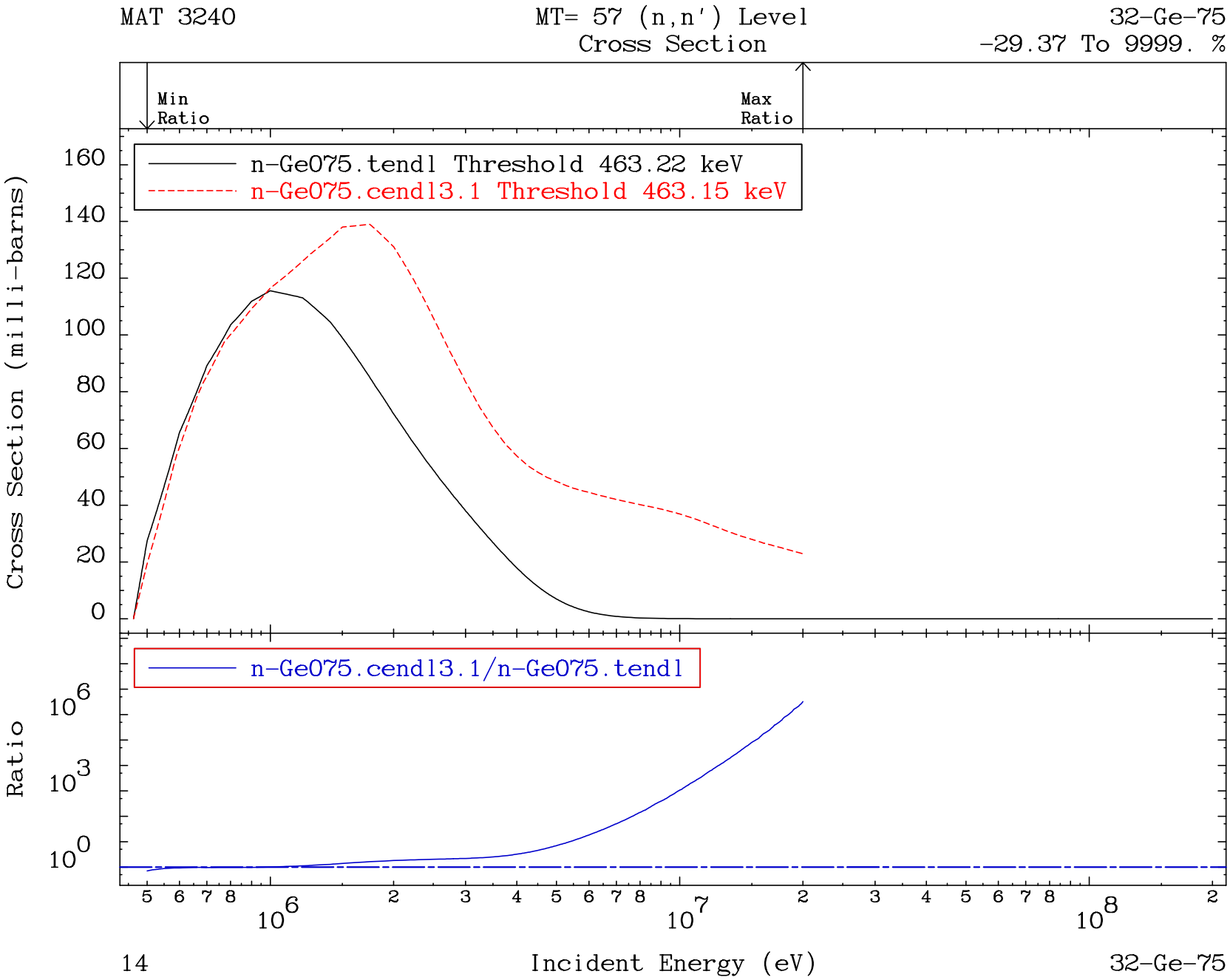

MAT 3240
MT= 52 (n,n') Level
Cross Section
32-Ge-75
-51.62 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 141.57 keV
n-Ge075.cendl3.1 Threshold 141.57 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
9
Incident Energy (eV)
32-Ge-75

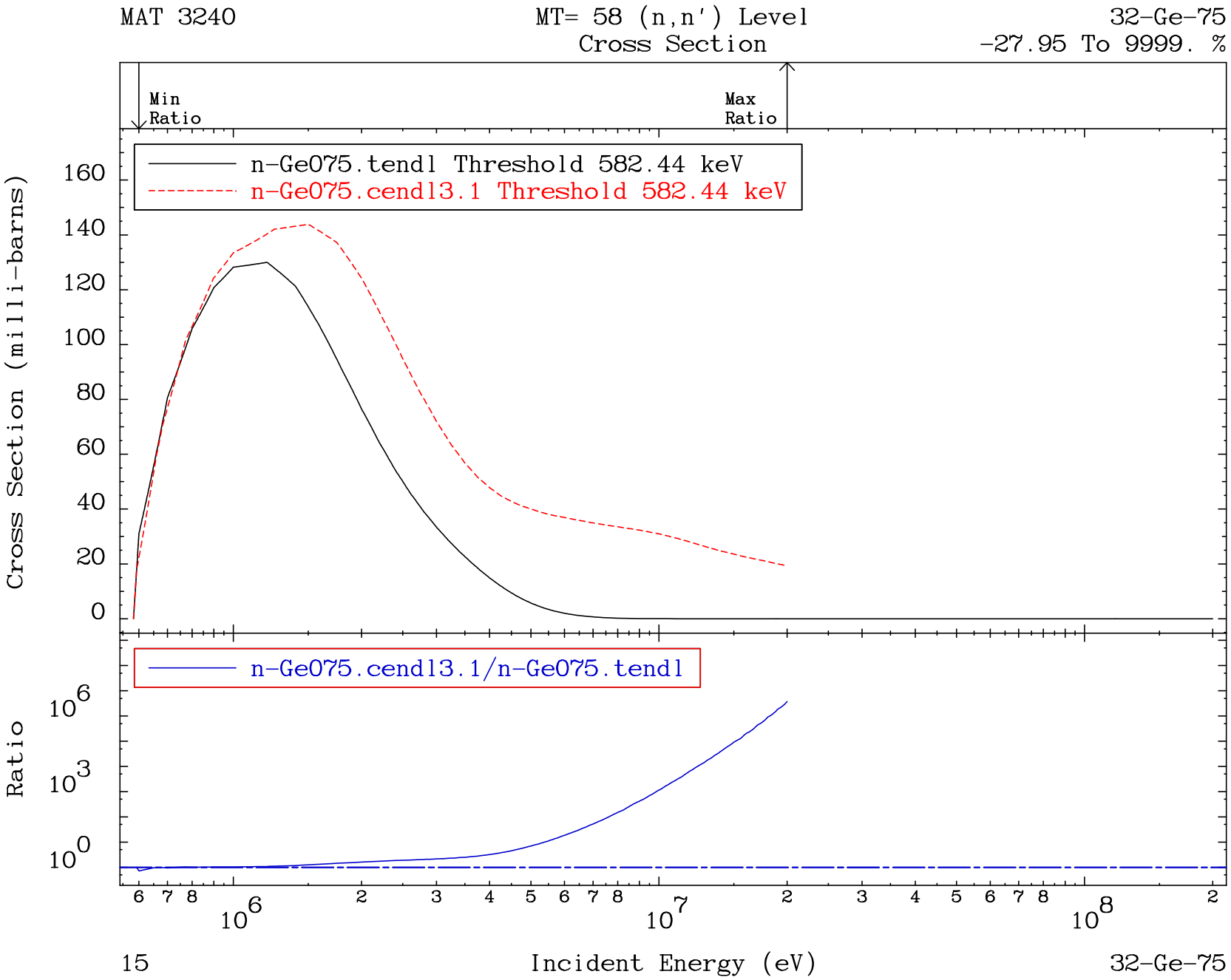

MAT 3240
MT= 53 (n,n') Level
Cross Section
32-Ge-75
-24.90 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 194.78 keV
n-Ge075.cendl3.1 Threshold 194.78 keV
Cross Section (milli-barns)
200
150
100
50
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
32-Ge-75

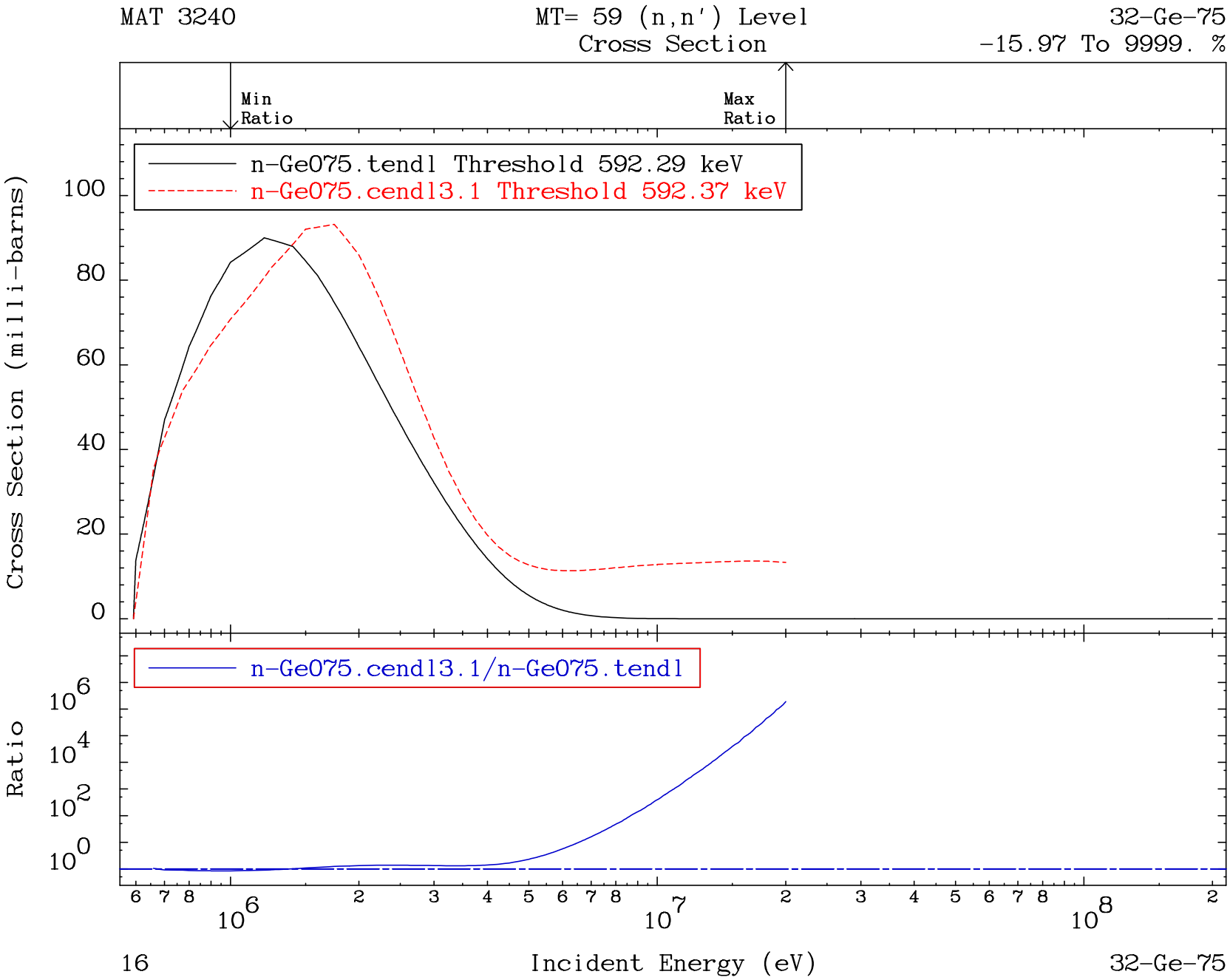

MAT 3240
MT= 54 (n,n') Level
Cross Section
32-Ge-75
-46.91 To 9999. %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 202.58 keV
n-Ge075.cendl3.1 Threshold 202.58 keV
Cross Section (milli-barns)
40
30
20
10
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
32-Ge-75

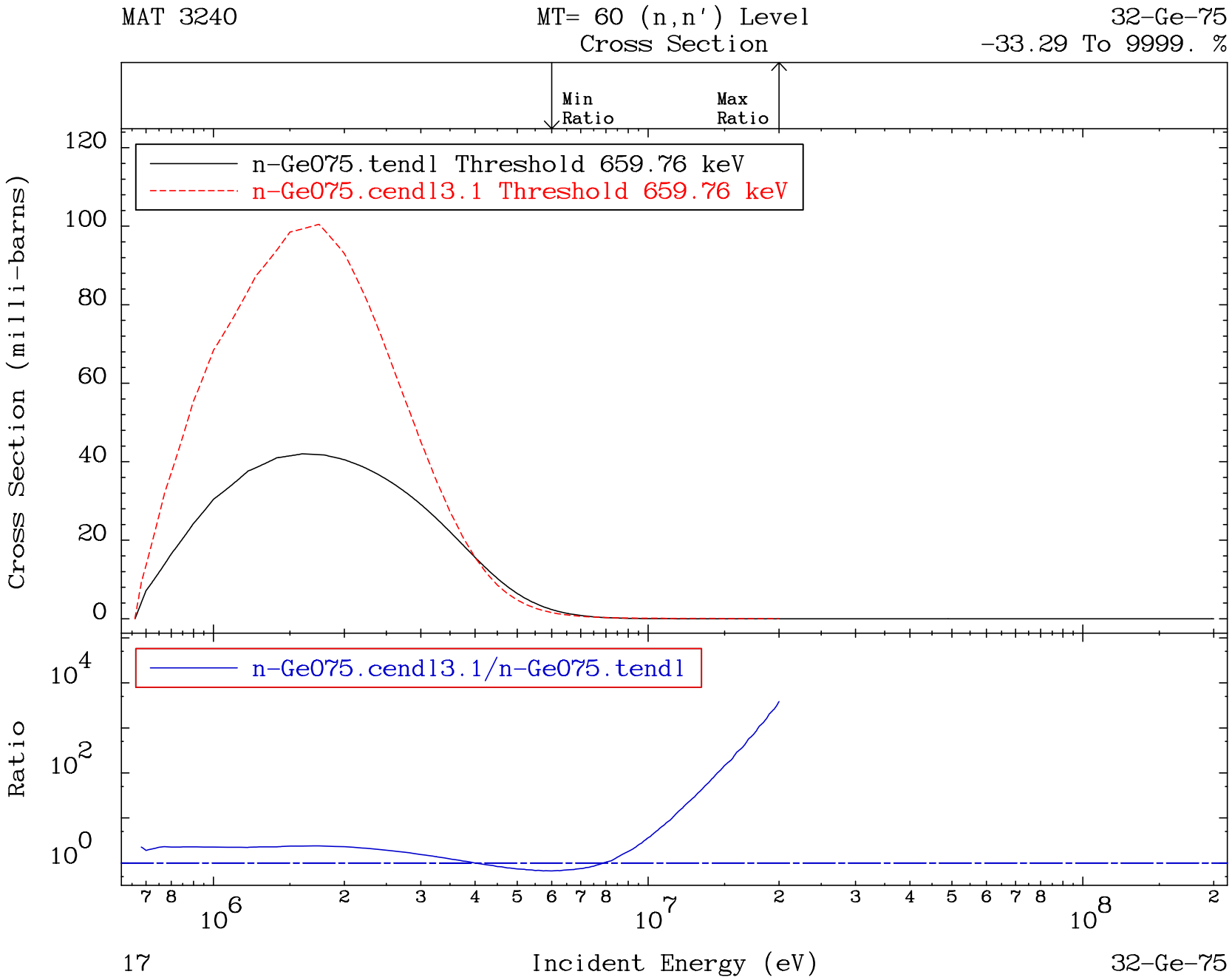

MAT 3240
MT= 55 (n,n') Level
Cross Section
32-Ge-75
-12.54 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 256.56 keV
n-Ge075.cendl3.1 Threshold 256.51 keV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^3
10^0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
32-Ge-75

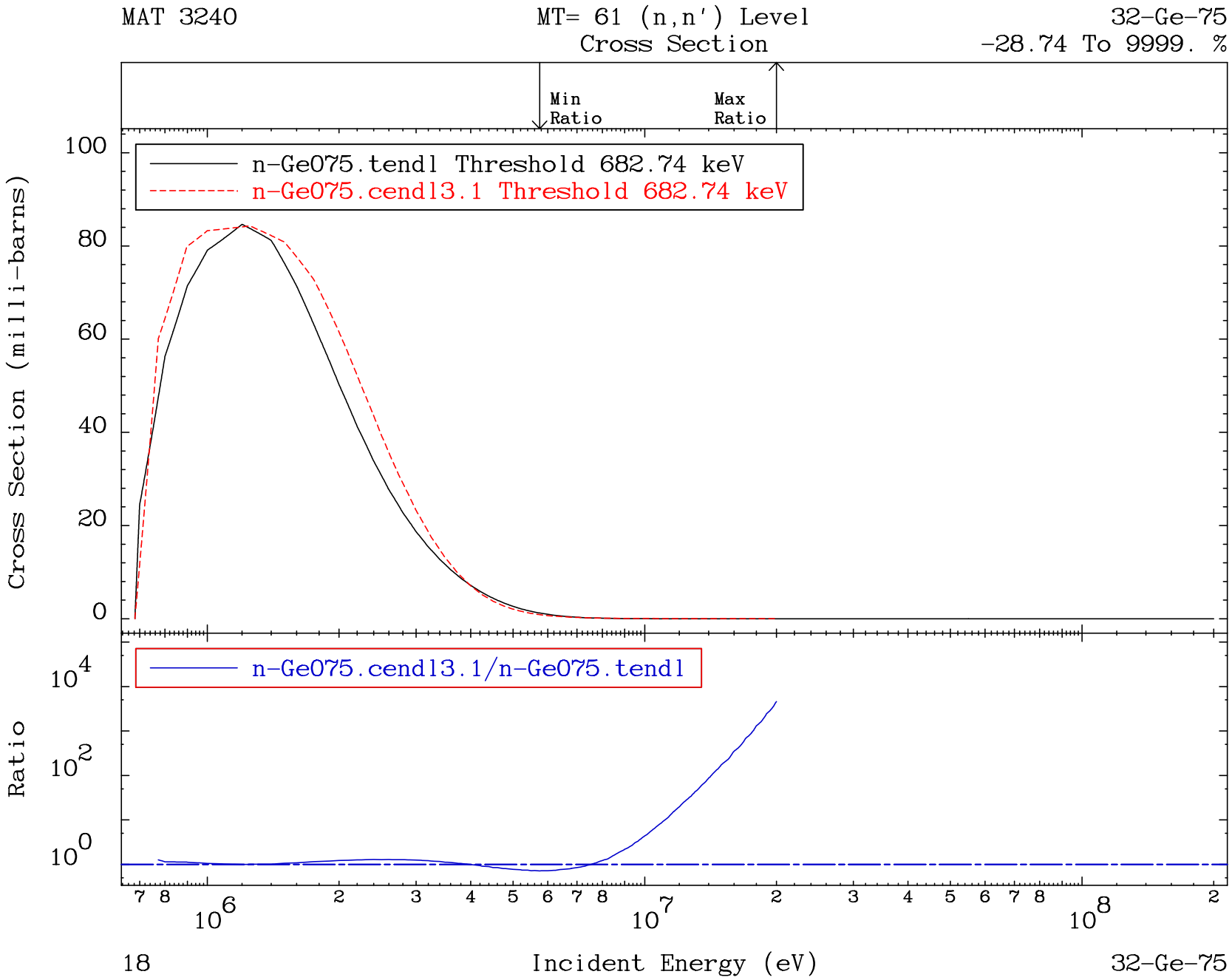

MAT 3240
MT= 56 (n,n') Level
Cross Section
32-Ge-75
-19.55 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 321.08 keV
n-Ge075.cendl3.1 Threshold 321.08 keV
Cross Section (milli-barns)
160
120
80
40
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^3
10^0
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
32-Ge-75

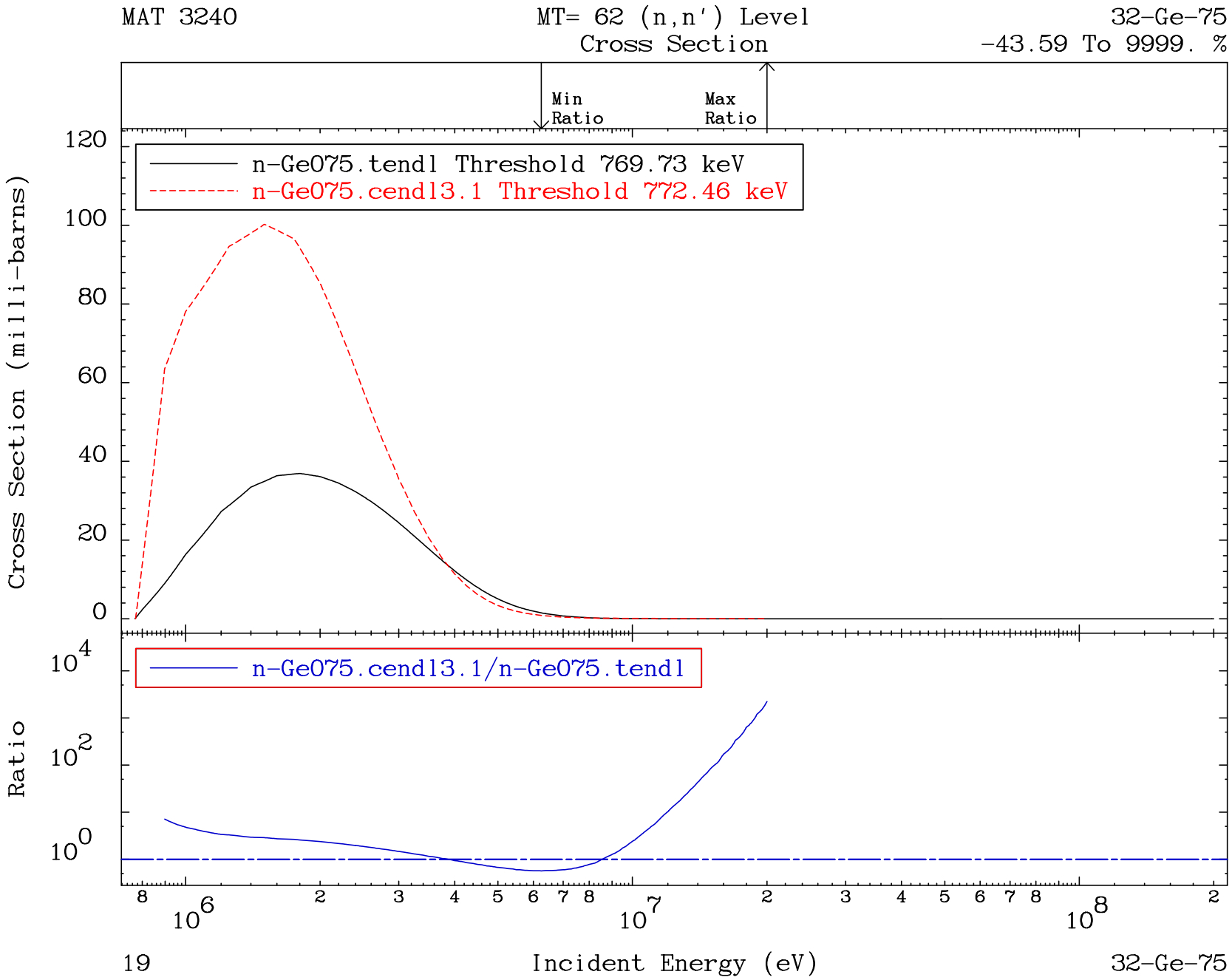

MAT 3240
MT= 57 (n,n') Level
Cross Section
32-Ge-75
-29.37 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 463.22 keV
n-Ge075.cendl3.1 Threshold 463.15 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^3
10^0
5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
32-Ge-75

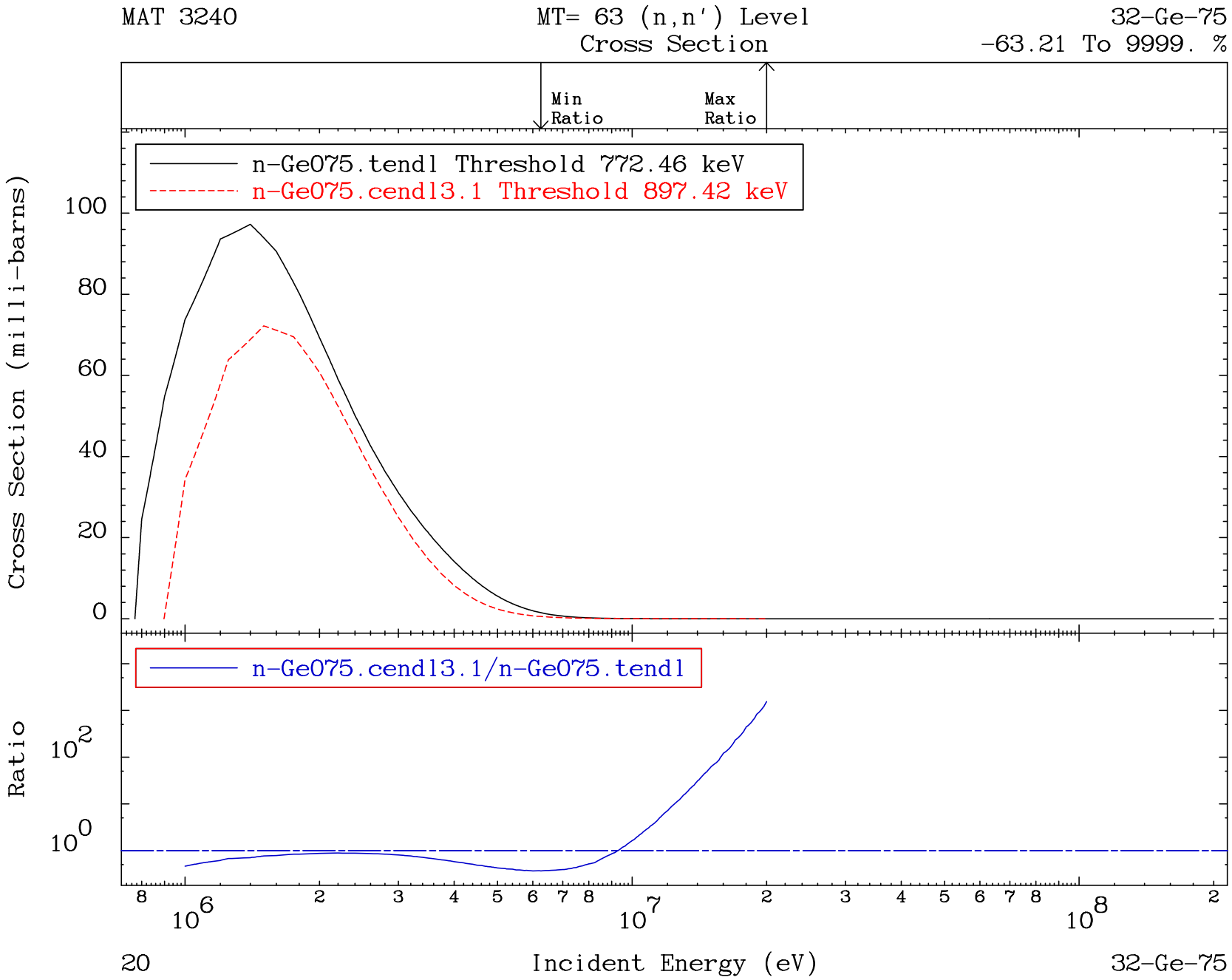

MAT 3240
MT= 58 (n,n') Level
Cross Section
32-Ge-75
-27.95 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 582.44 keV
n-Ge075.cendl3.1 Threshold 582.44 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^3
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
15
Incident Energy (eV)
32-Ge-75

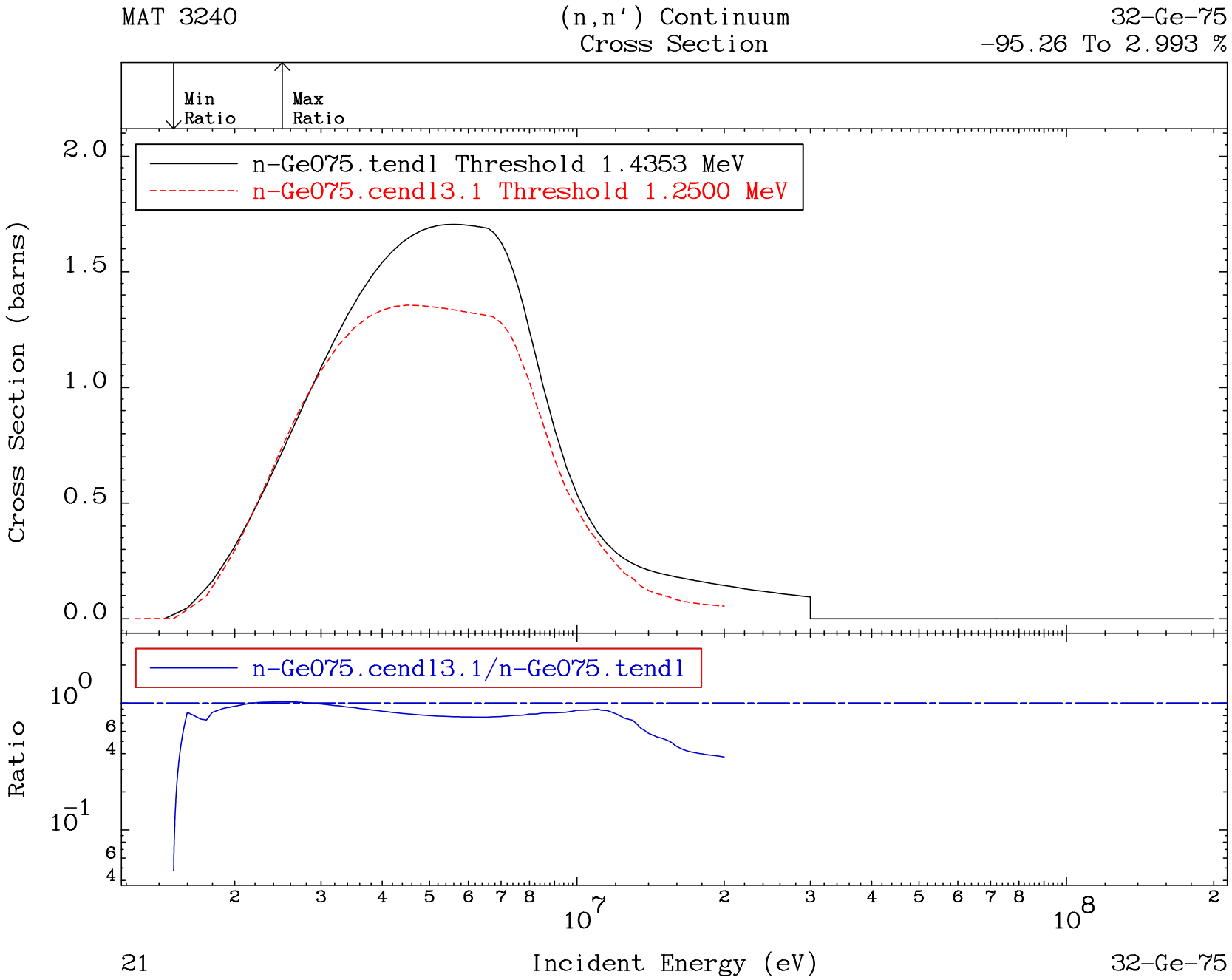

MAT 3240
MT= 59 (n,n') Level
Cross Section
32-Ge-75
-15.97 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 592.29 keV
n-Ge075.cendl3.1 Threshold 592.37 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^6
10^4
10^2
10^0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
32-Ge-75

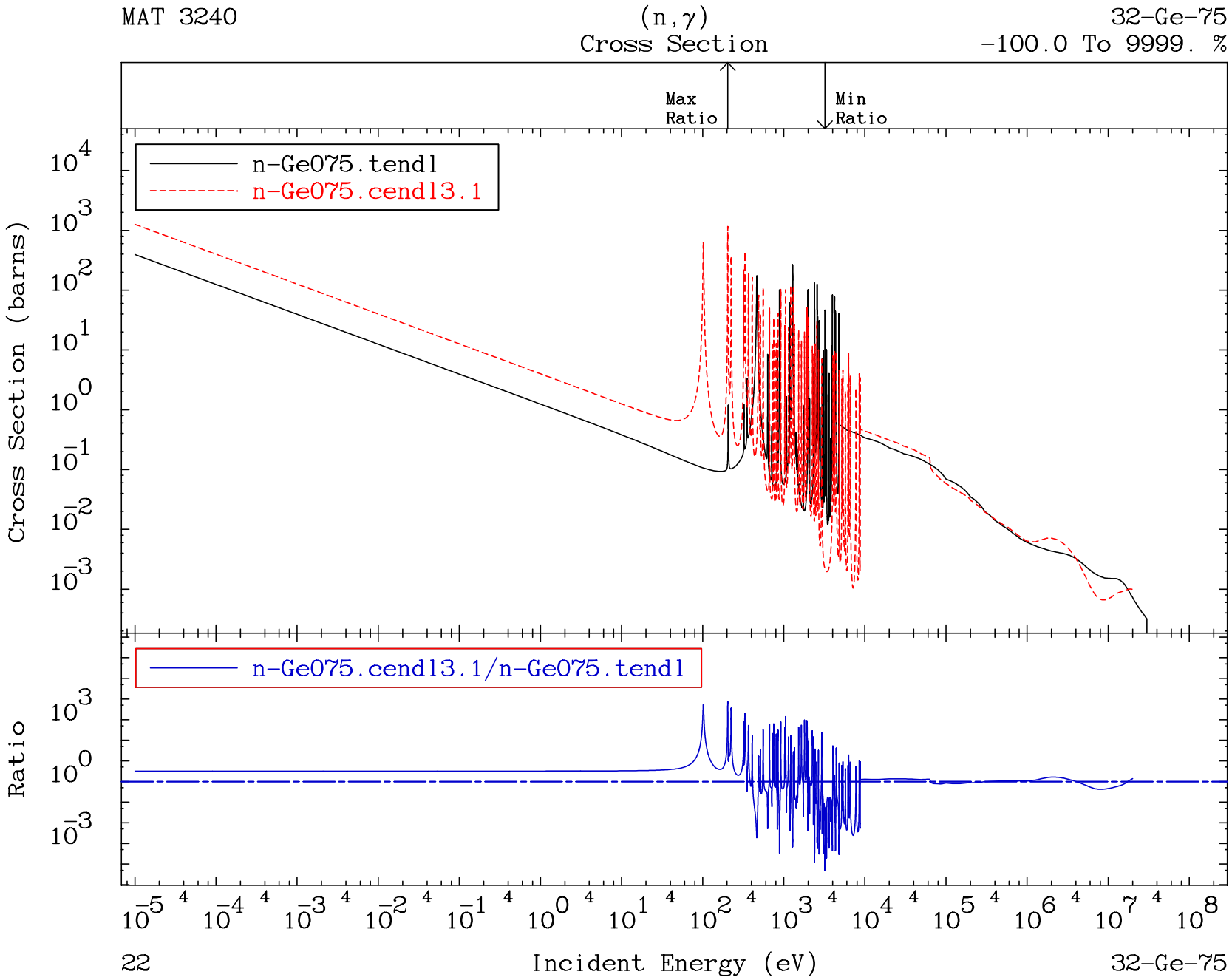

MAT 3240
MT= 60 (n,n') Level
Cross Section
32-Ge-75
-33.29 To 9999. %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 659.76 keV
n-Ge075.cendl3.1 Threshold 659.76 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^4
10^2
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
32-Ge-75

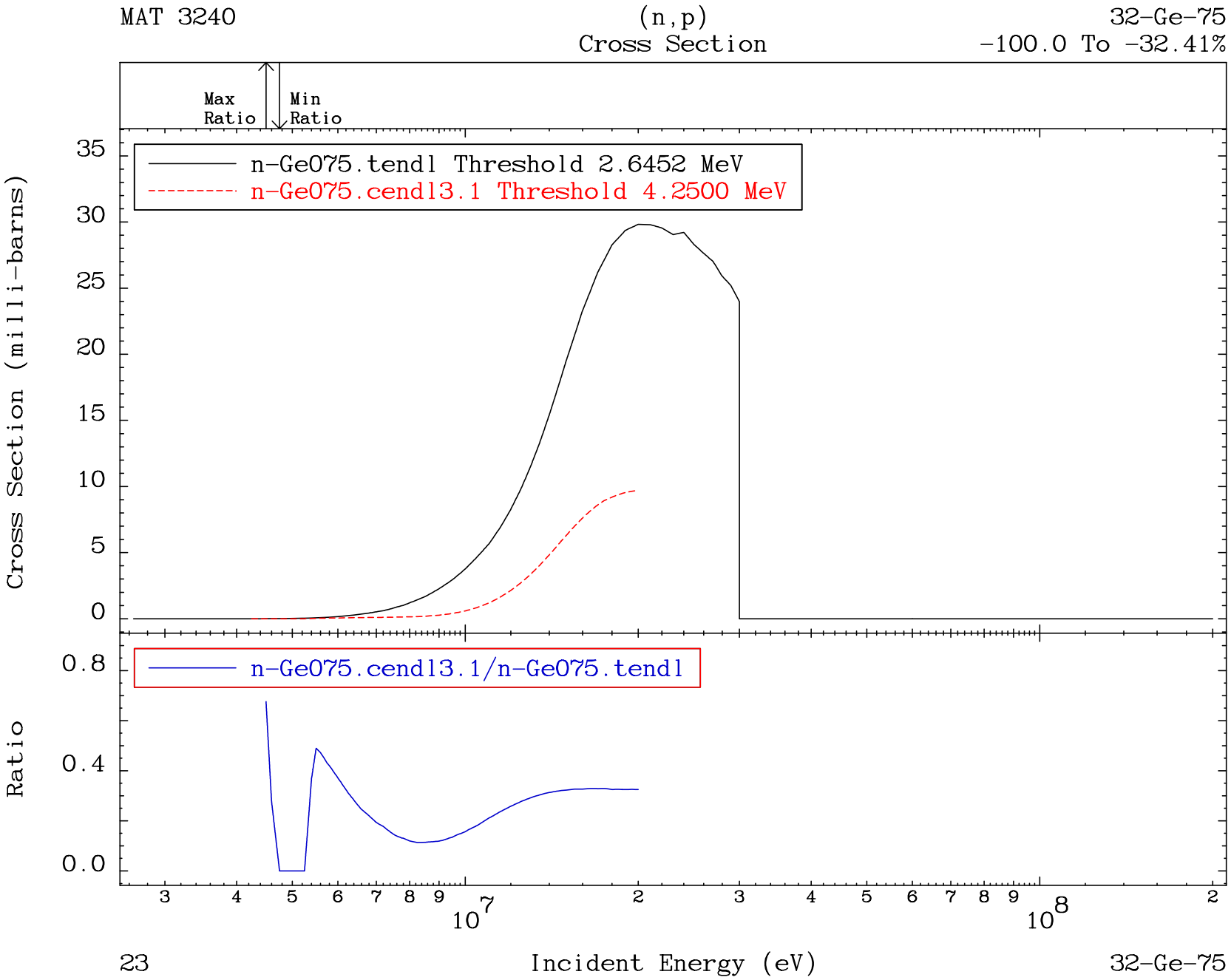

MAT 3240
MT= 61 (n,n') Level
Cross Section
32-Ge-75
-28.74 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 682.74 keV
n-Ge075.cendl3.1 Threshold 682.74 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^4
10^2
10^0
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
32-Ge-75

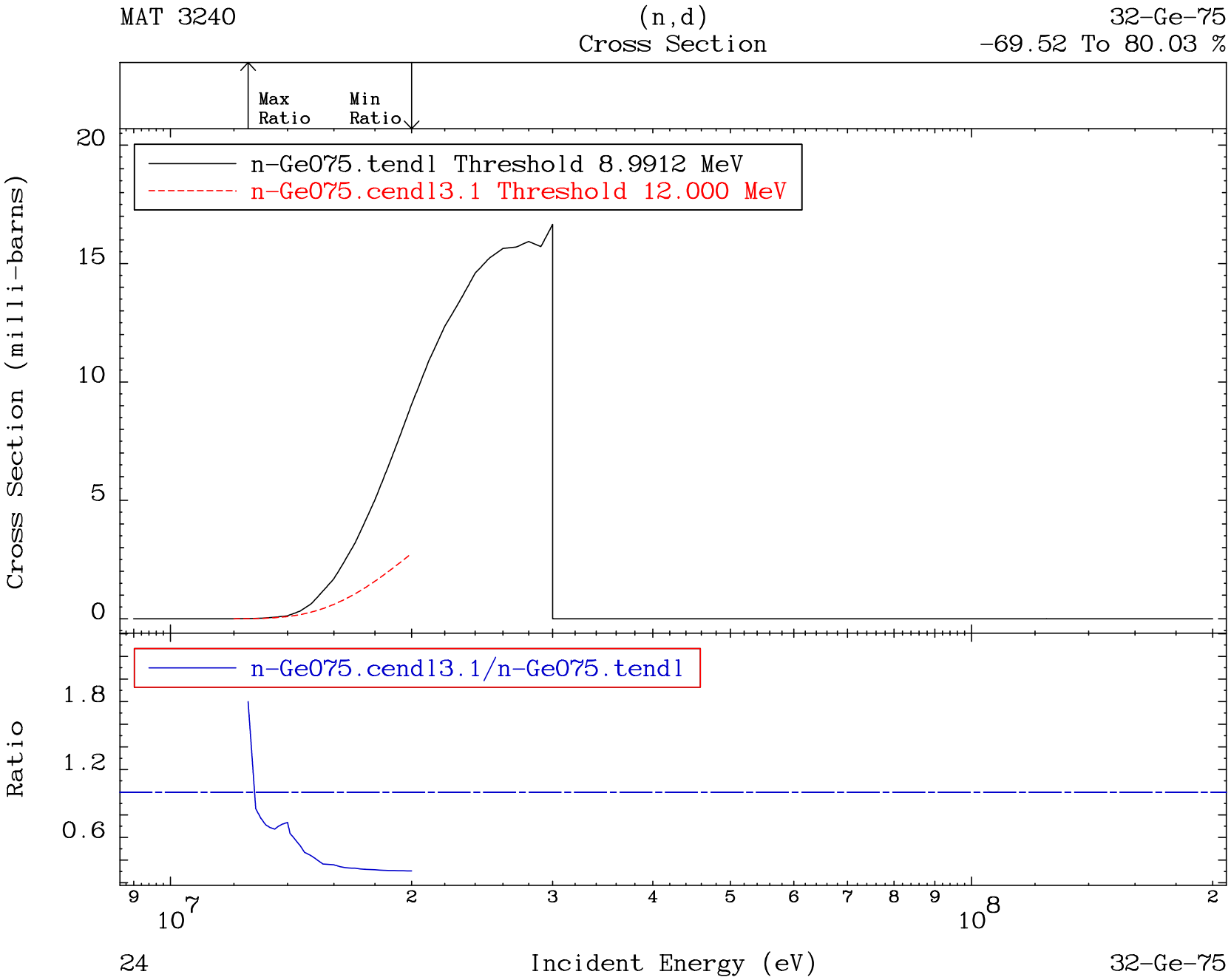

MAT 3240
MT= 62 (n,n') Level
Cross Section
32-Ge-75
-43.59 To 9999. %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 769.73 keV
n-Ge075.cendl3.1 Threshold 772.46 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^4
10^2
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
19
Incident Energy (eV)
32-Ge-75

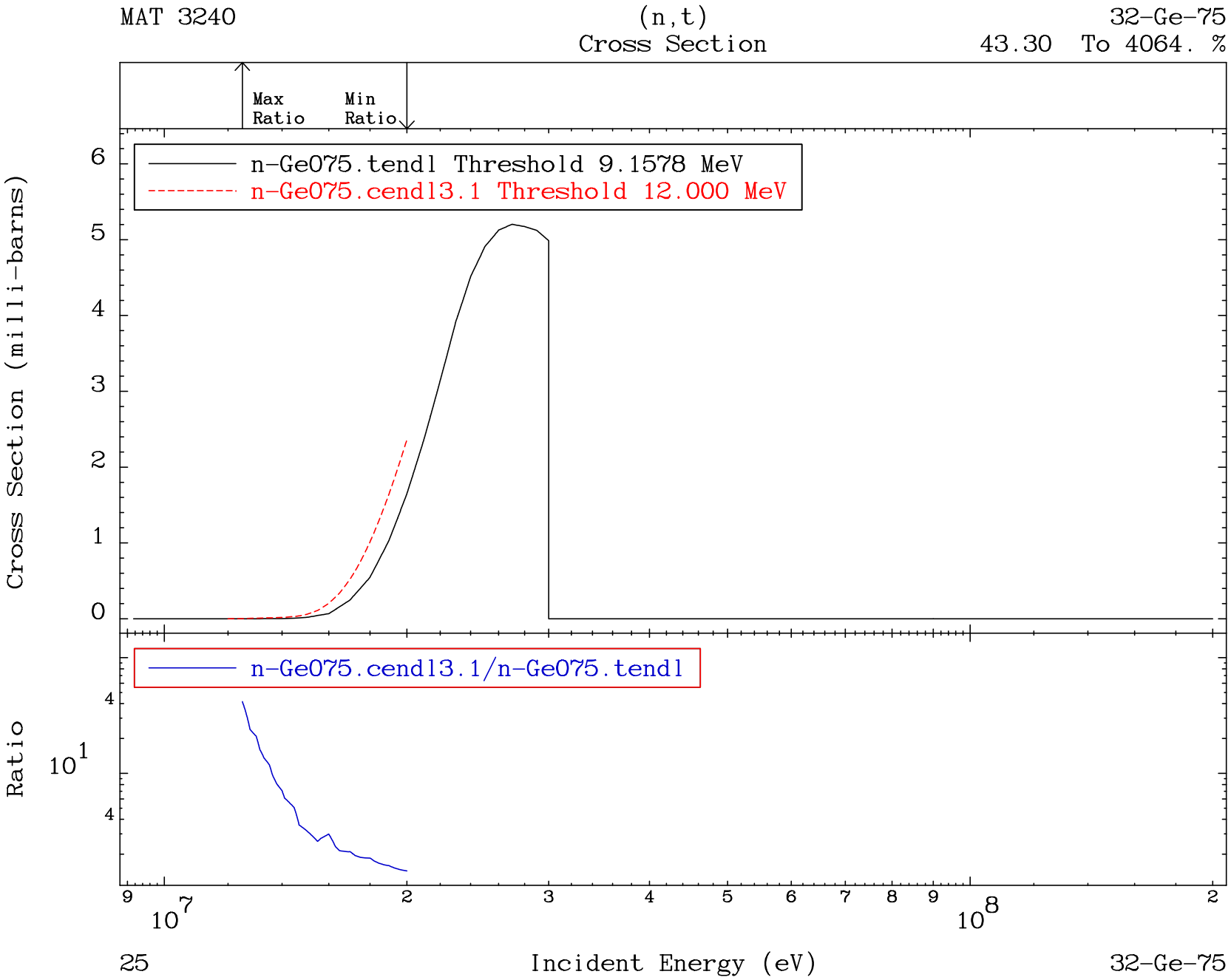

MAT 3240
MT= 63 (n,n') Level
Cross Section
32-Ge-75
-63.21 To 9999. %
Min
Ratio
Max
Ratio
n-Ge075.tendl Threshold 772.46 keV
n-Ge075.cendl3.1 Threshold 897.42 keV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^2
10^0
8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
20
Incident Energy (eV)
32-Ge-75

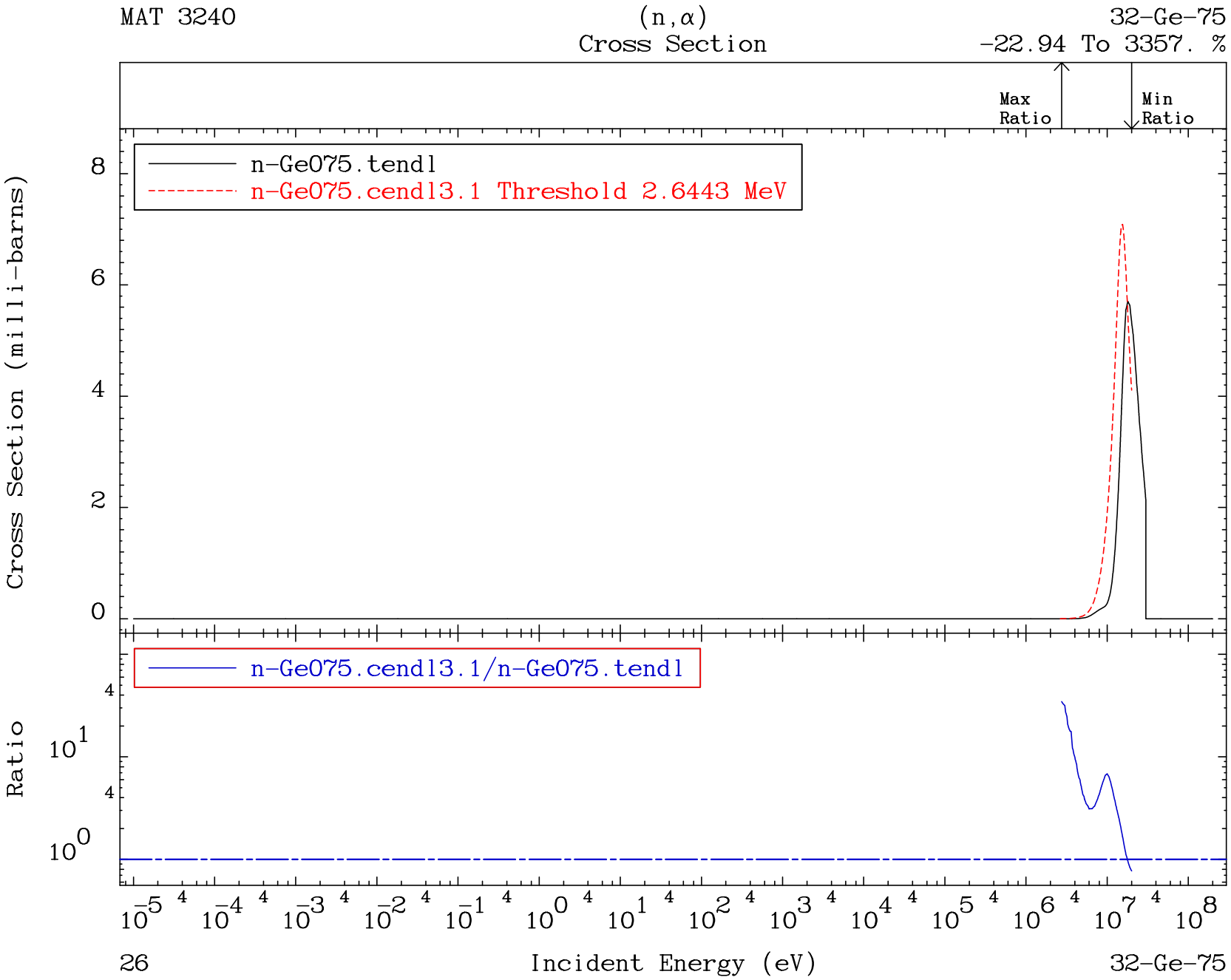

MAT 3240
(n,n') Continuum
Cross Section
32-Ge-75
-95.26 To 2.993 %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 1.4353 MeV
n-Ge075.cendl3.1 Threshold 1.2500 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^0
10^-1
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
32-Ge-75

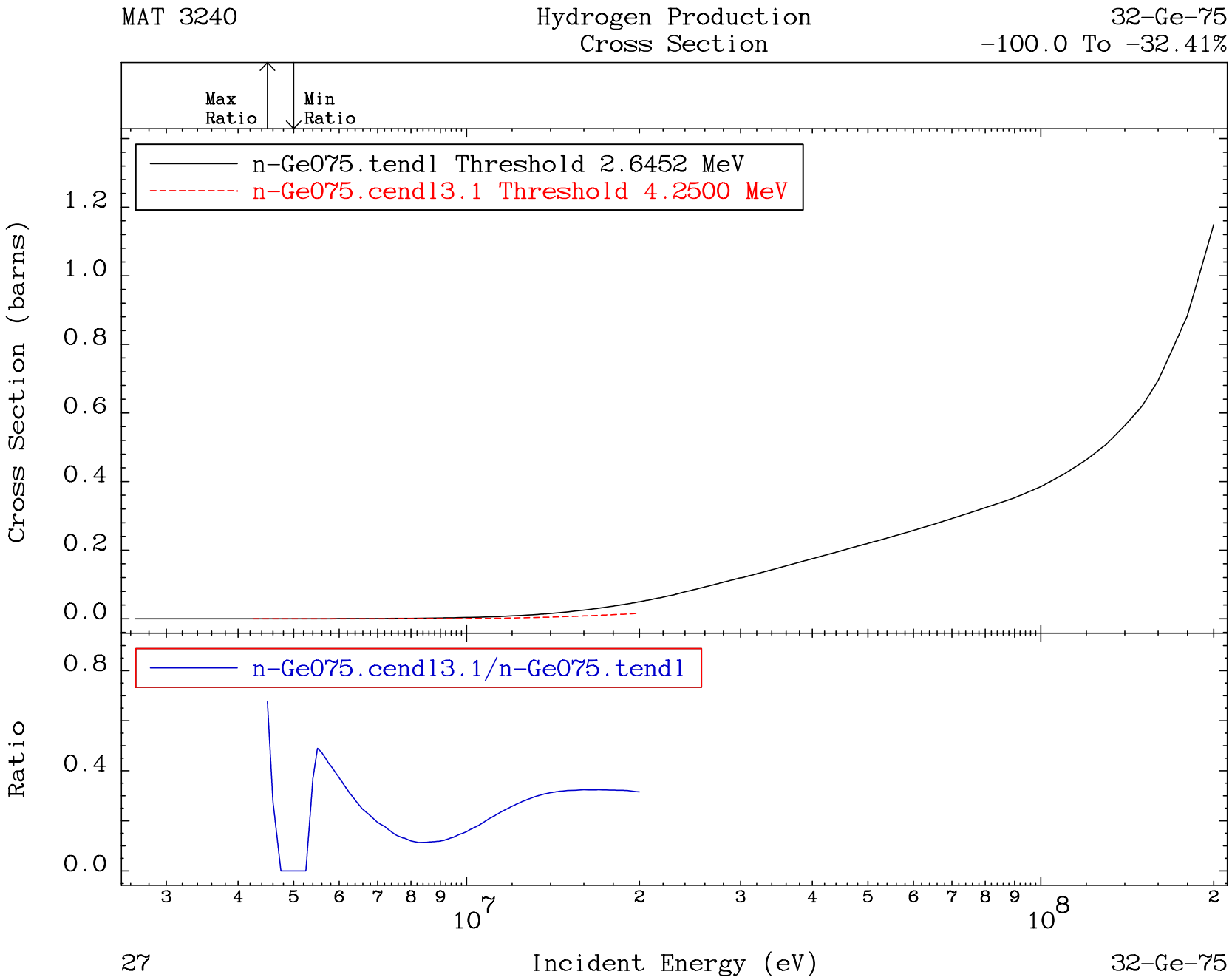

MAT 3240
(n,γ)
Cross Section
32-Ge-75
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
22
32-Ge-75

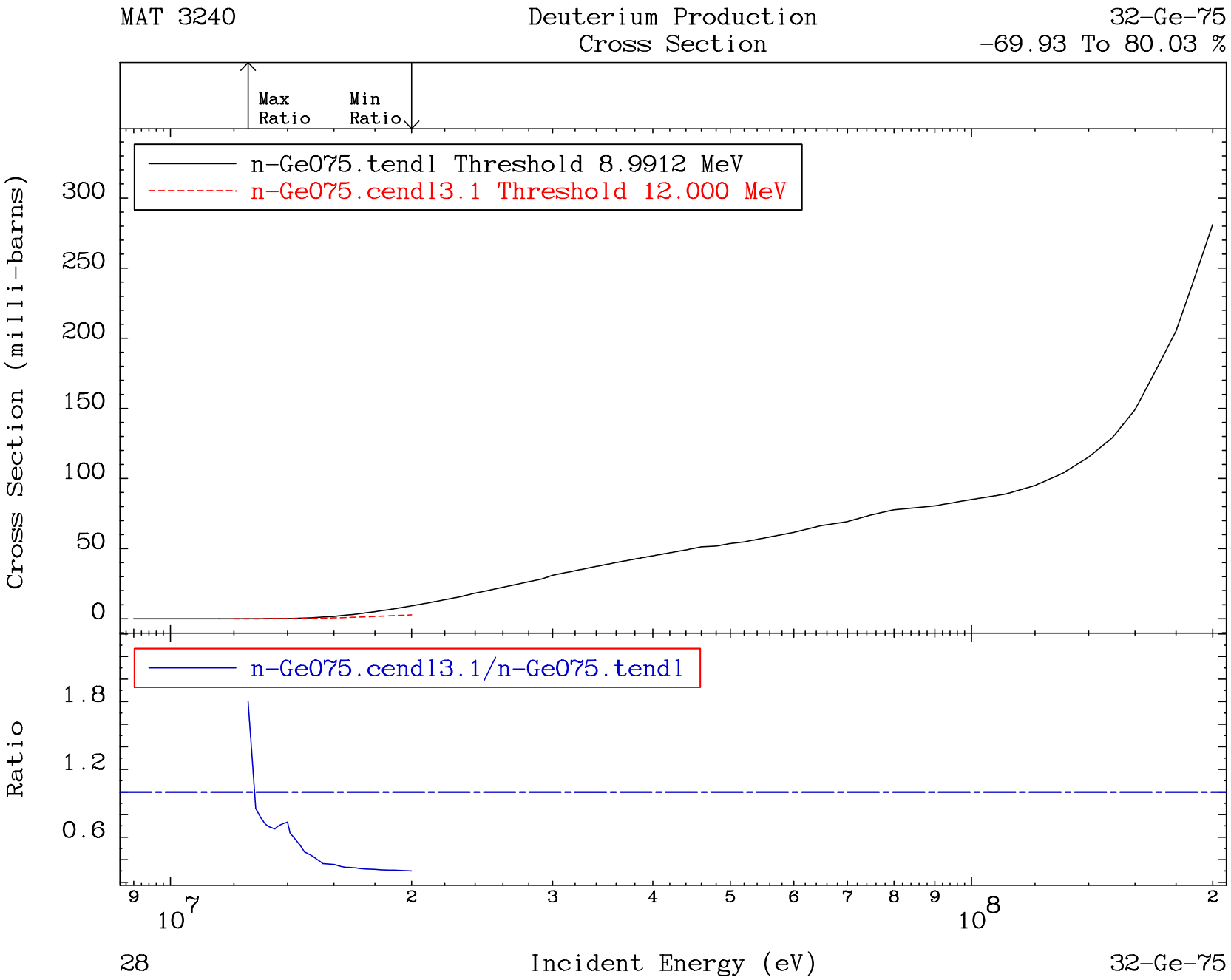

MAT 3240
(n,p)
Cross Section
32-Ge-75
-100.0 To -32.41%
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 2.6452 MeV
n-Ge075.cendl3.1 Threshold 4.2500 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
0.8
0.4
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
32-Ge-75

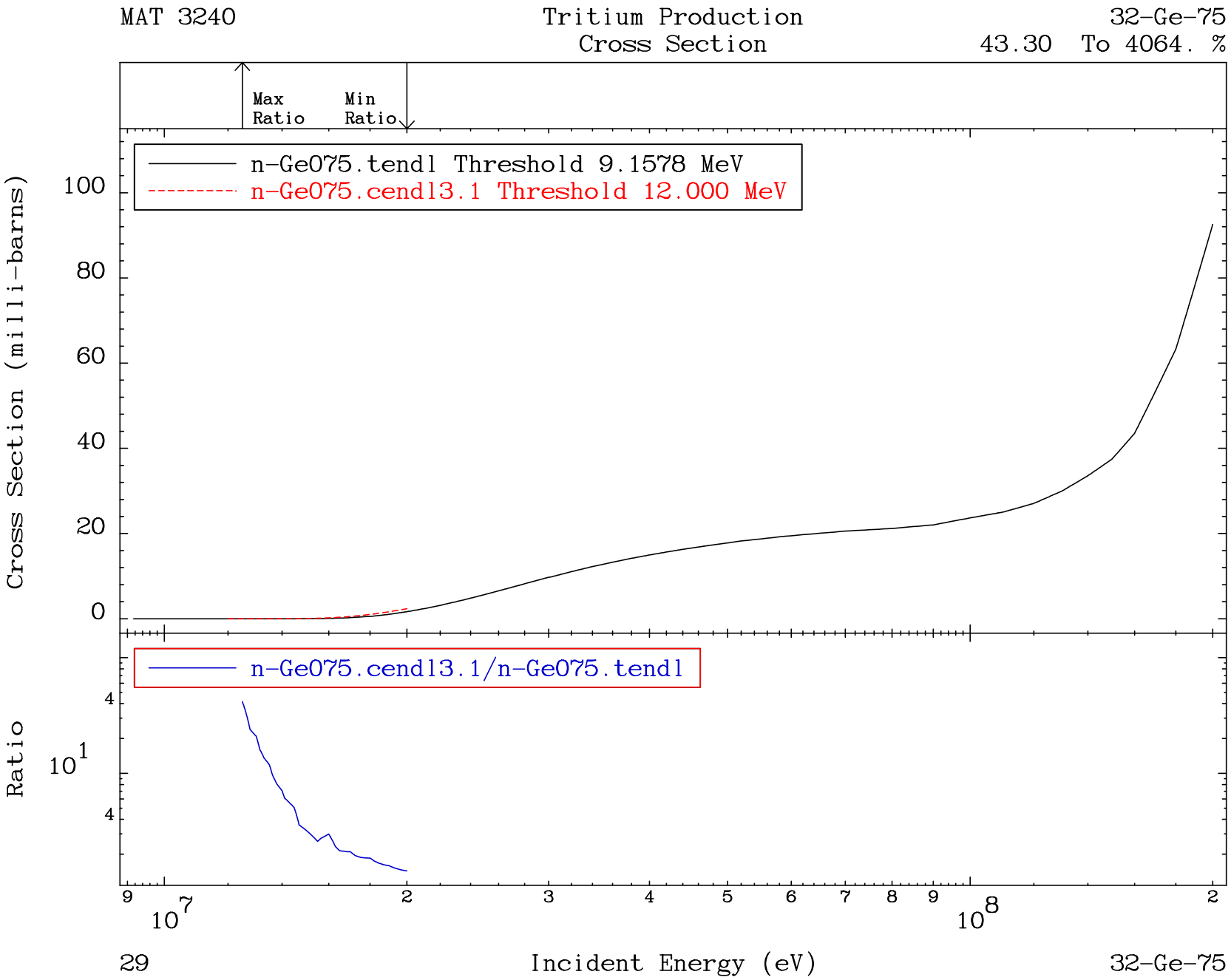

MAT 3240
(n,d)
Cross Section
32-Ge-75
-69.52 To 80.03 %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 8.9912 MeV
n-Ge075.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
20
15
10
5
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
1.8
1.2
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
32-Ge-75

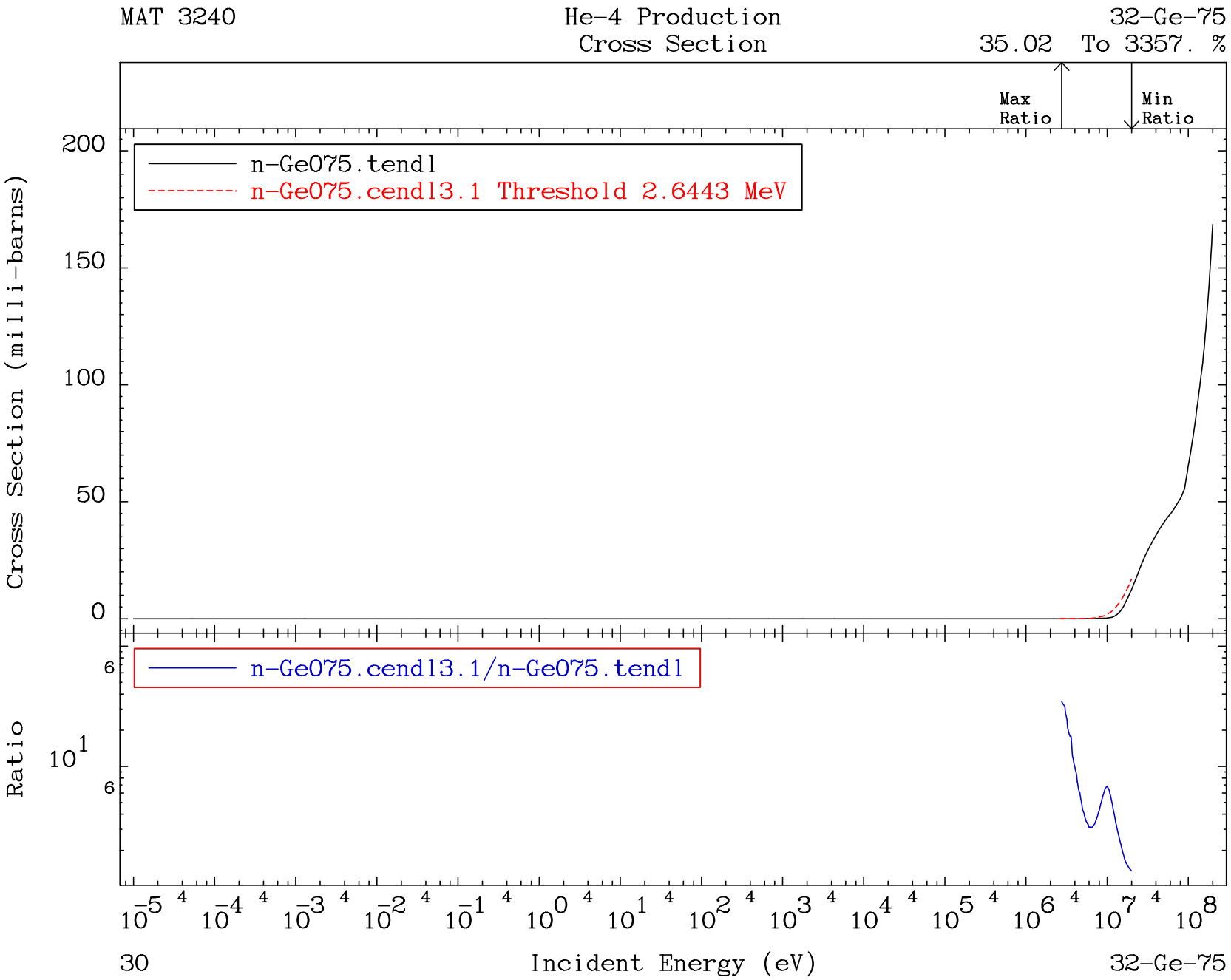

MAT 3240
(n,t)
Cross Section
32-Ge-75
43.30 To 4064. %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 9.1578 MeV
n-Ge075.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^1
4
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
25
Incident Energy (eV)
32-Ge-75

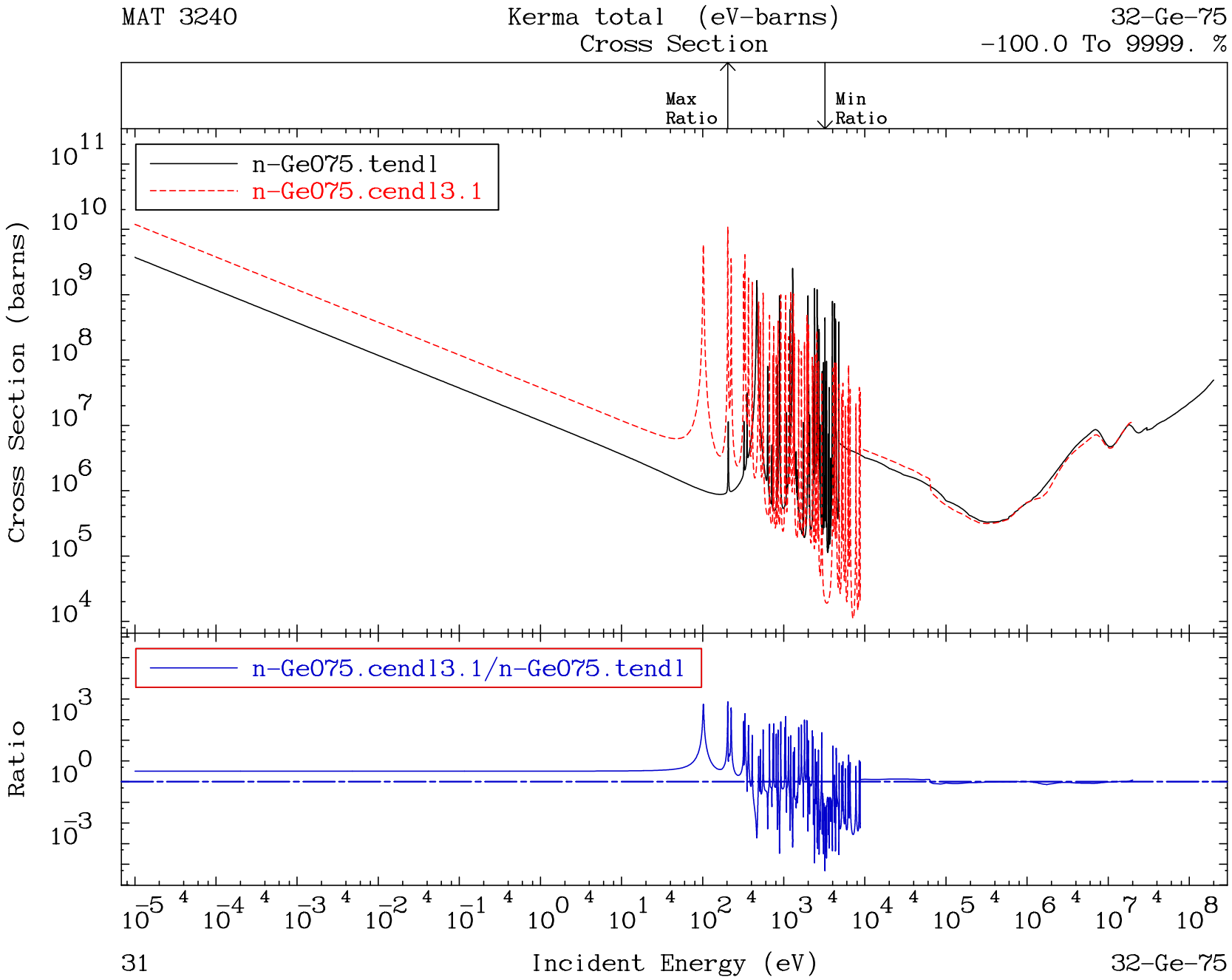

MAT 3240
(n,α)
Cross Section
32-Ge-75
-22.94 To 3357. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1 Threshold 2.6443 MeV
Cross Section (milli-barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
26
32-Ge-75

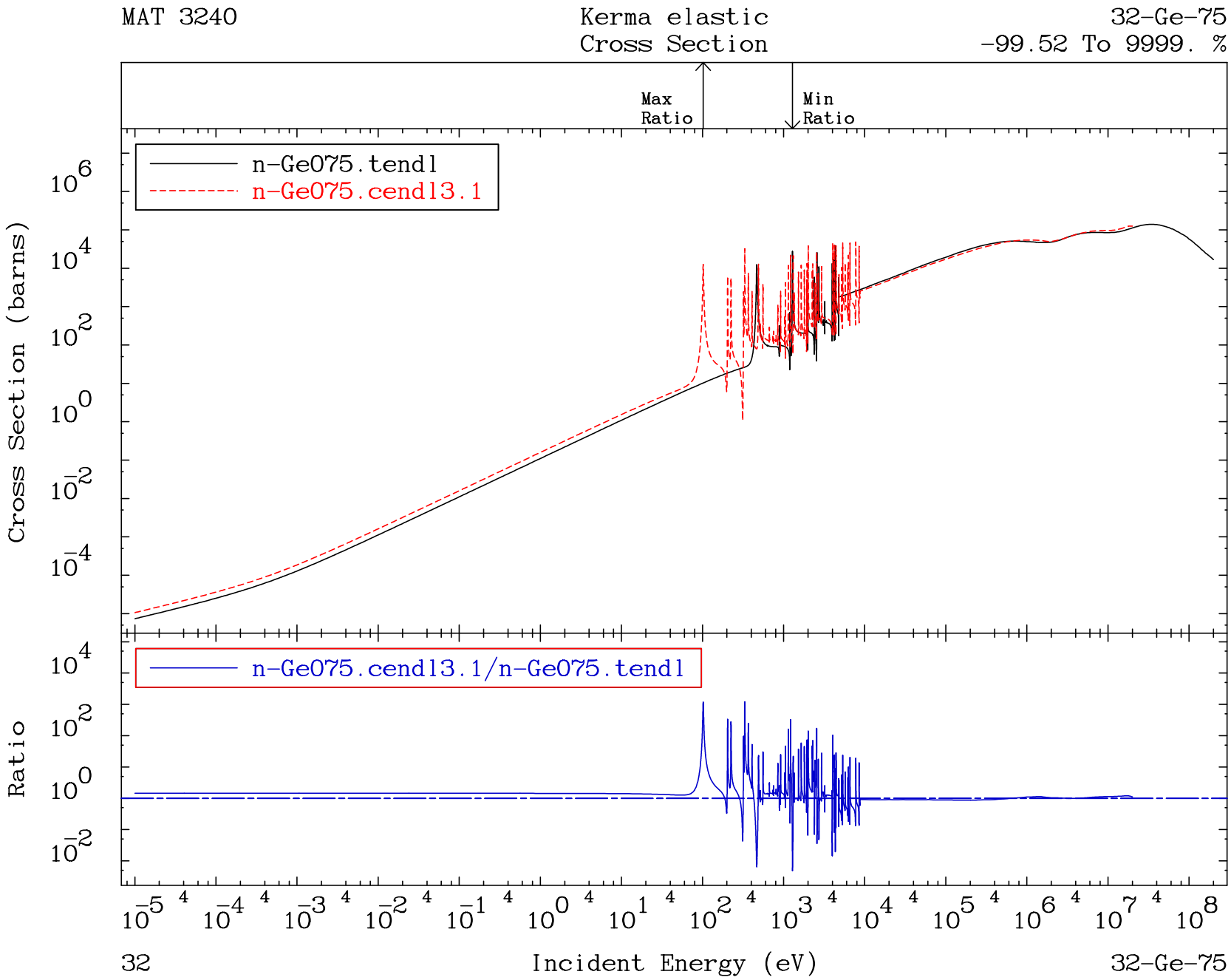

MAT 3240
Hydrogen Production
Cross Section
32-Ge-75
-100.0 To -32.41%
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 2.6452 MeV
n-Ge075.cendl3.1 Threshold 4.2500 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
0.8
0.4
0.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
32-Ge-75

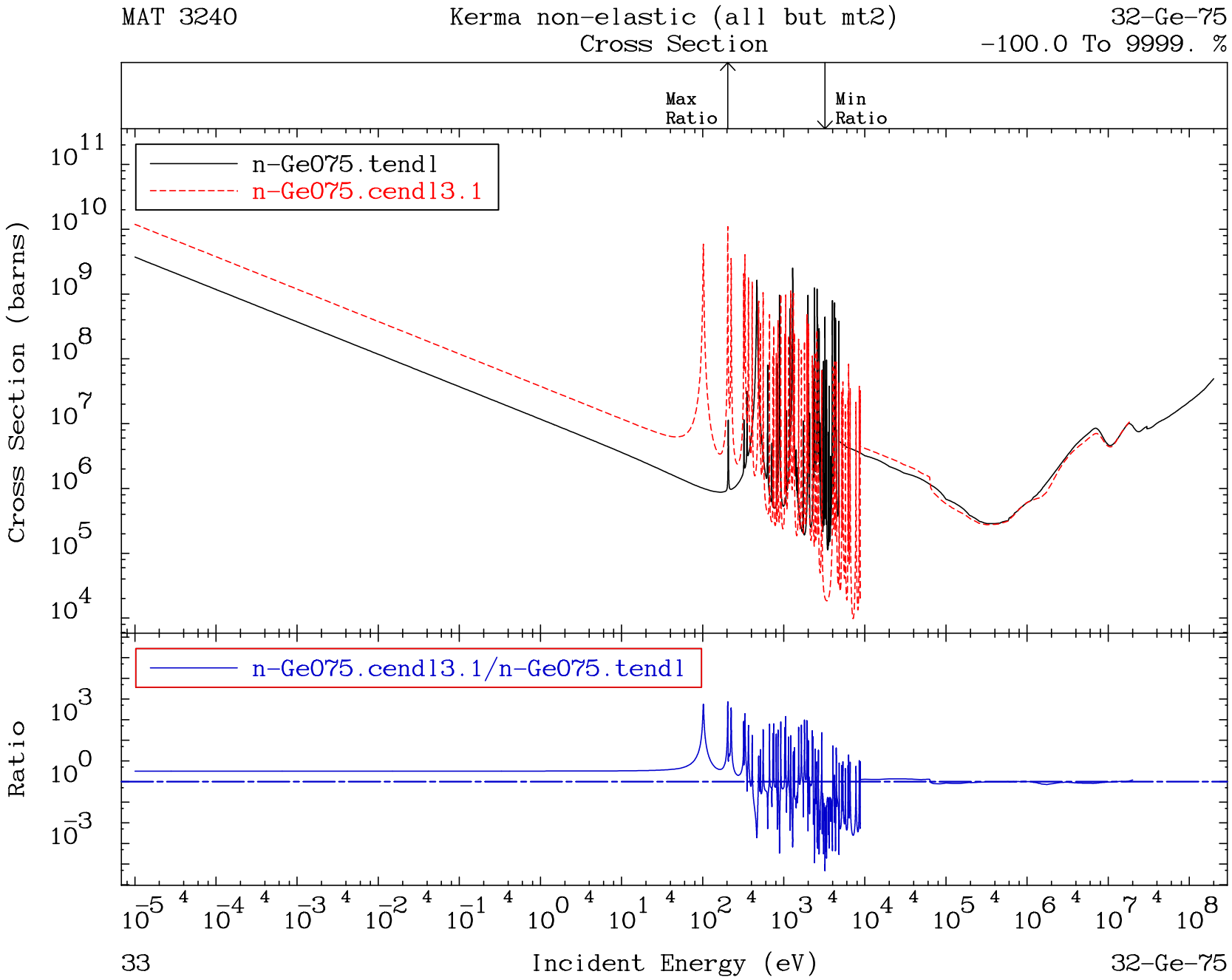

MAT 3240
Deuterium Production
Cross Section
32-Ge-75
-69.93 To 80.03 %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 8.9912 MeV
n-Ge075.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
1.8
1.2
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
32-Ge-75

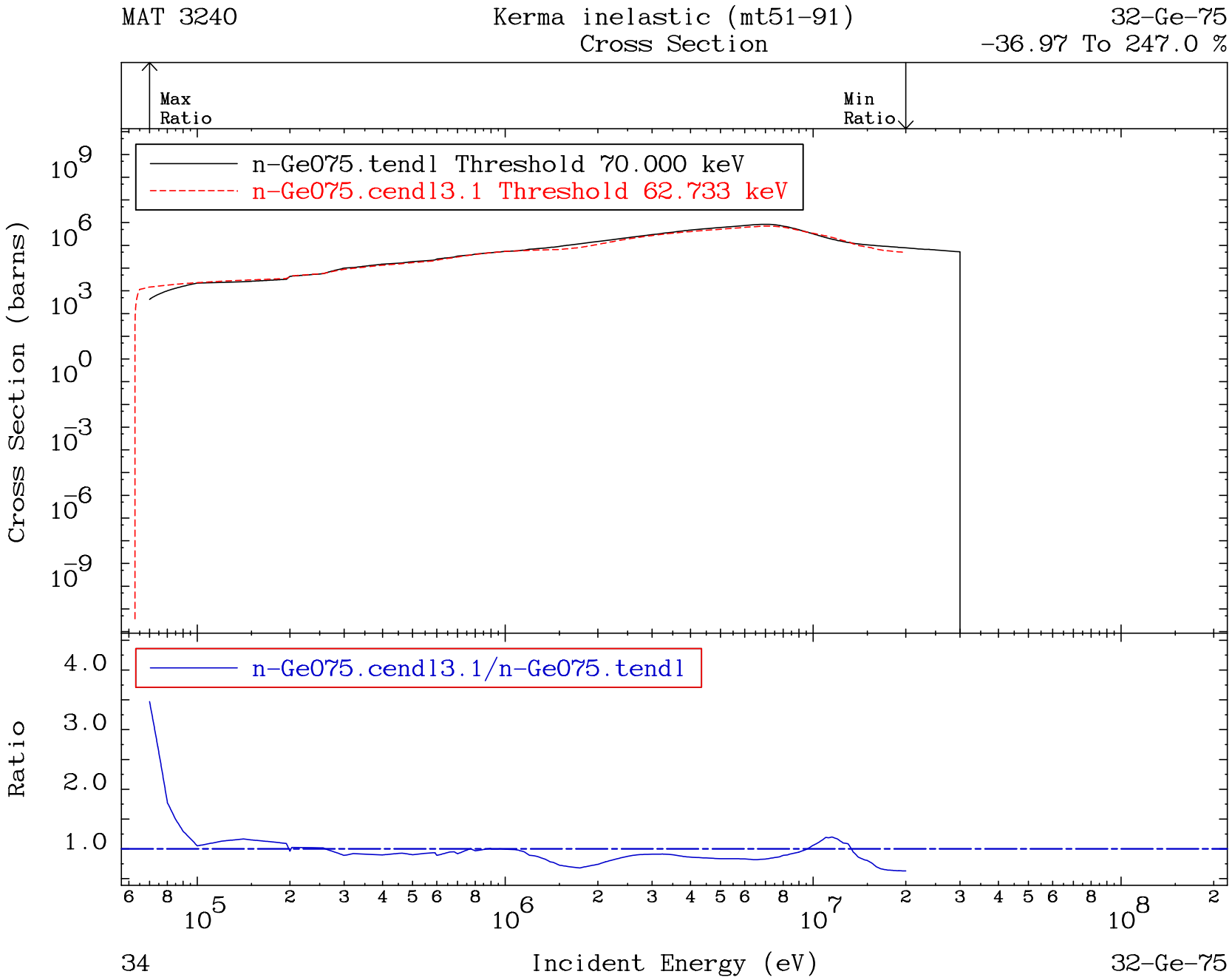

MAT 3240
Tritium Production
Cross Section
32-Ge-75
43.30 To 4064. %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 9.1578 MeV
n-Ge075.cendl3.1 Threshold 12.000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
4
10^1
4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
32-Ge-75

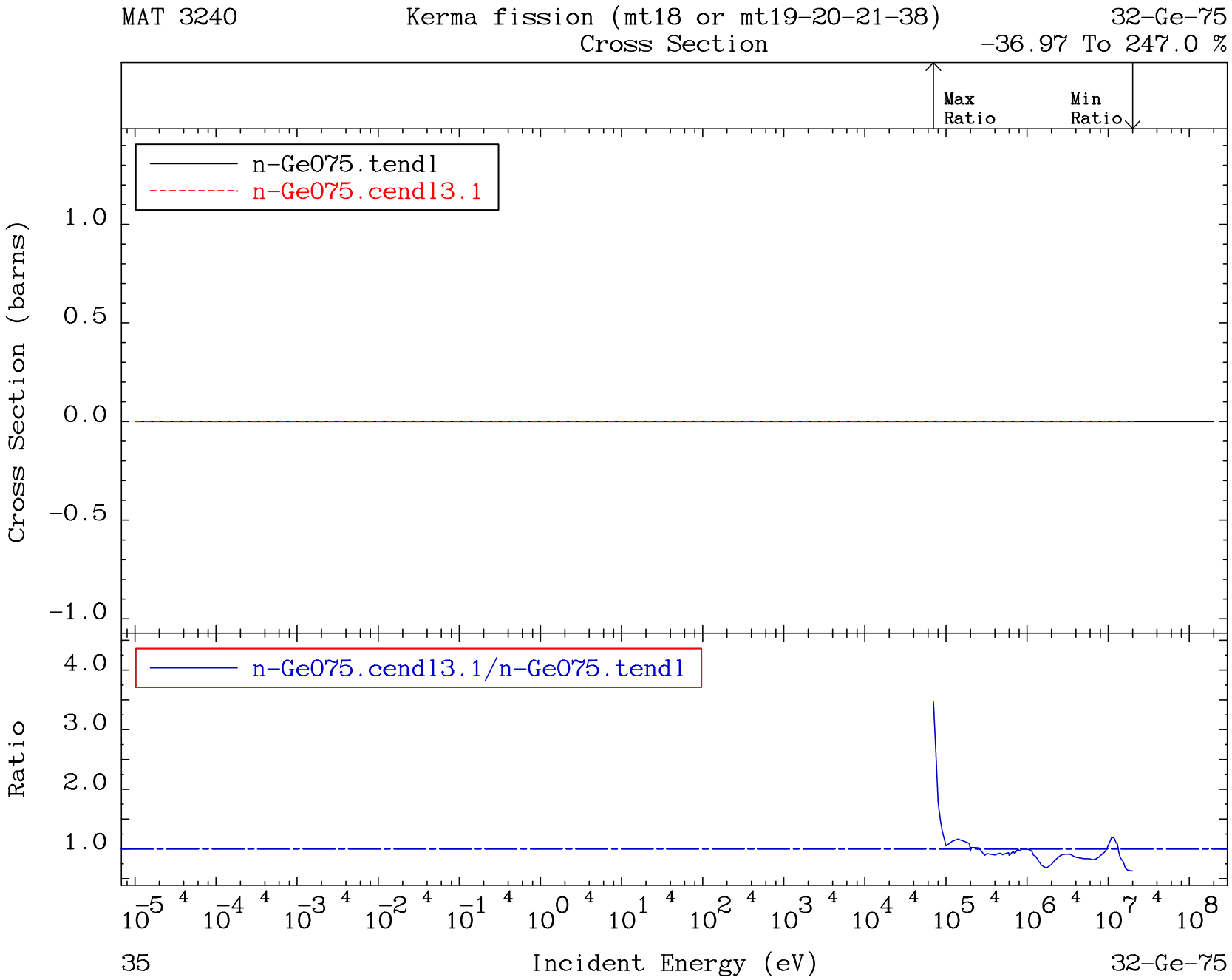

MAT 3240
He-4 Production
Cross Section
32-Ge-75
35.02 To 3357. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1 Threshold 2.6443 MeV
Cross Section (milli-barns)
200
150
100
50
0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
6
10^1
6
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
30
Incident Energy (eV)
32-Ge-75

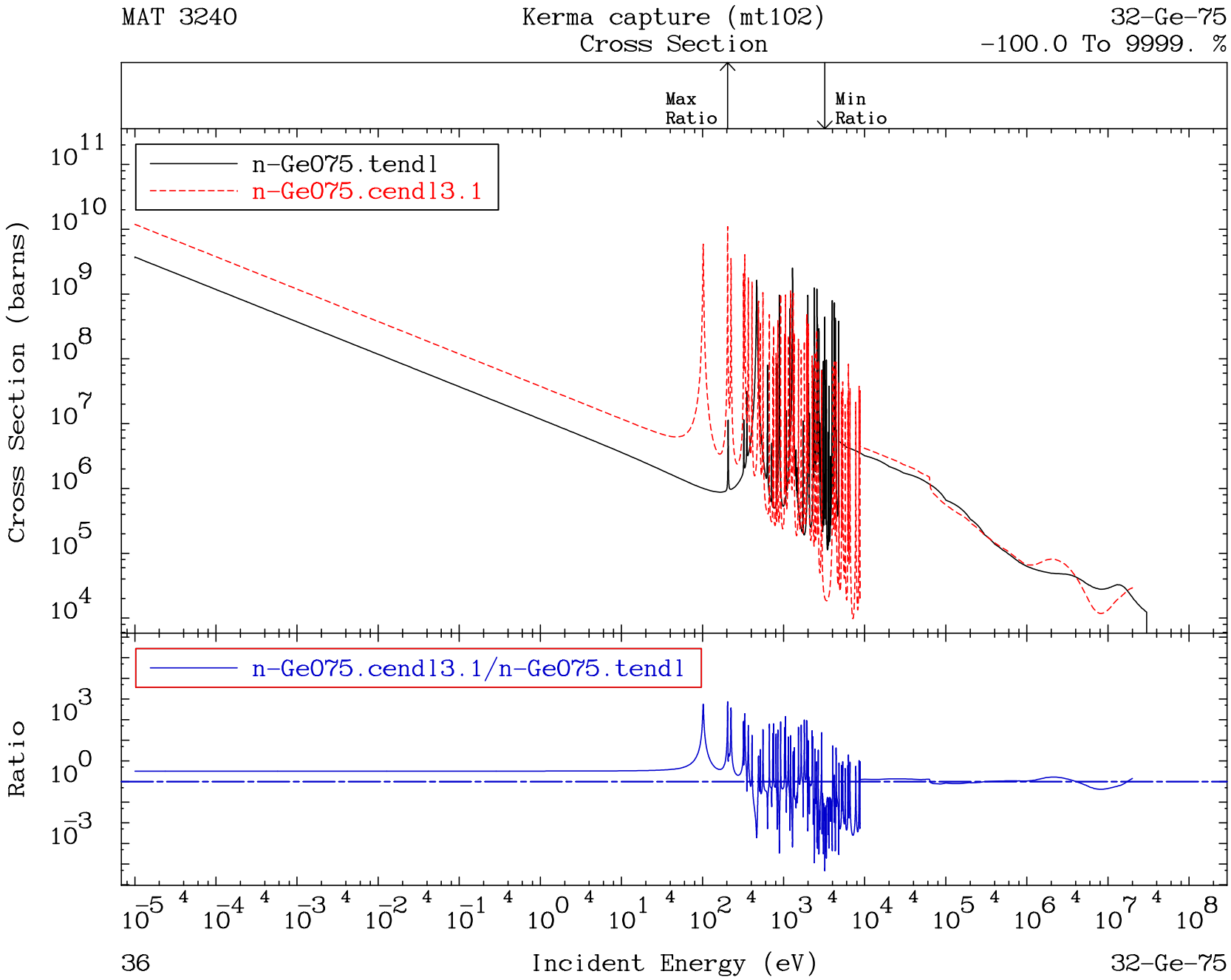

MAT 3240
Kerma total (eV-barns)
Cross Section
32-Ge-75
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
31
32-Ge-75

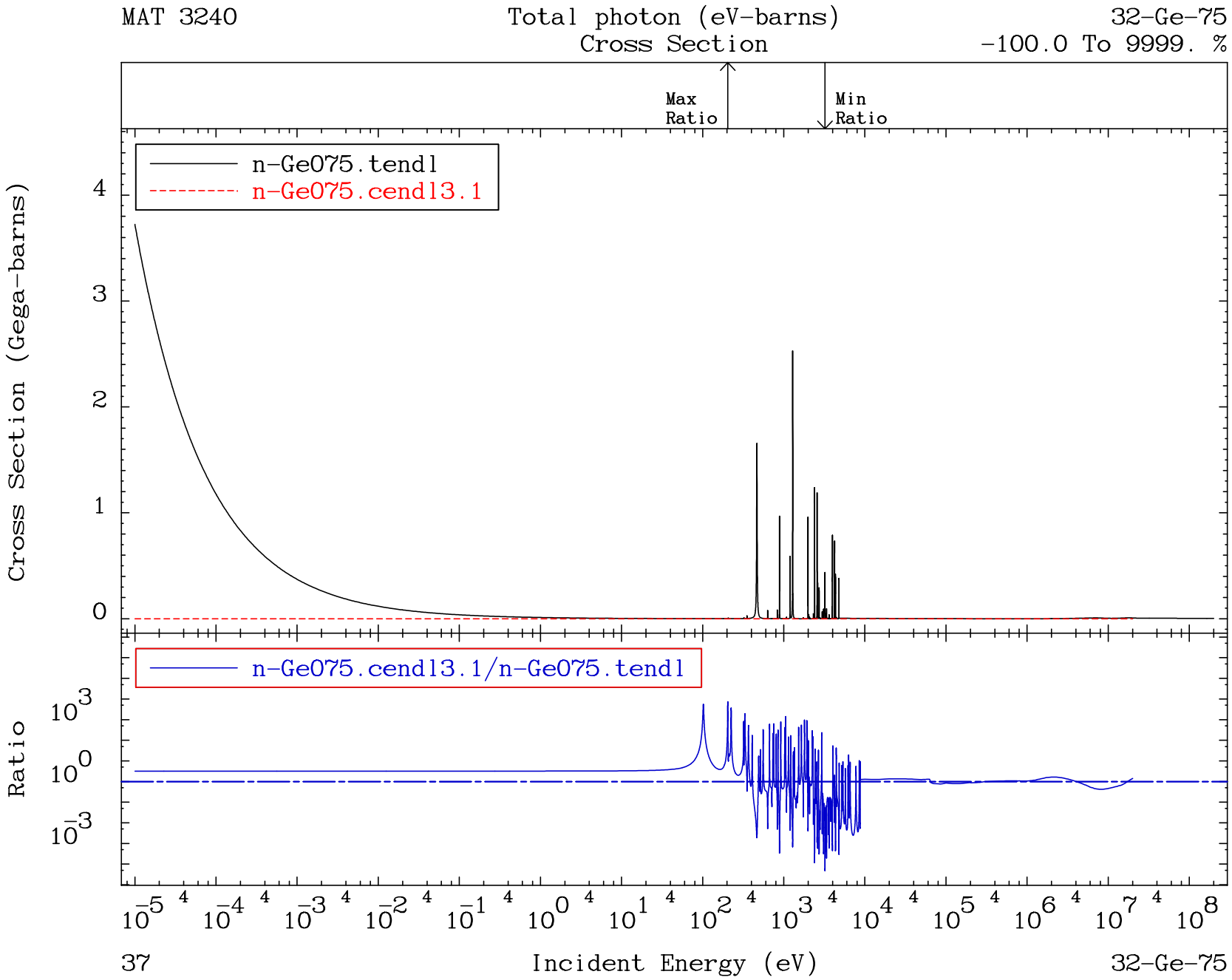

MAT 3240
Kerma elastic
Cross Section
32-Ge-75
-99.52 To 9999. %
Max
Ratio
Min
Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
Ratio
n-Ge075.cendl3.1/n-Ge075.tendl
Incident Energy (eV)
32
32-Ge-75

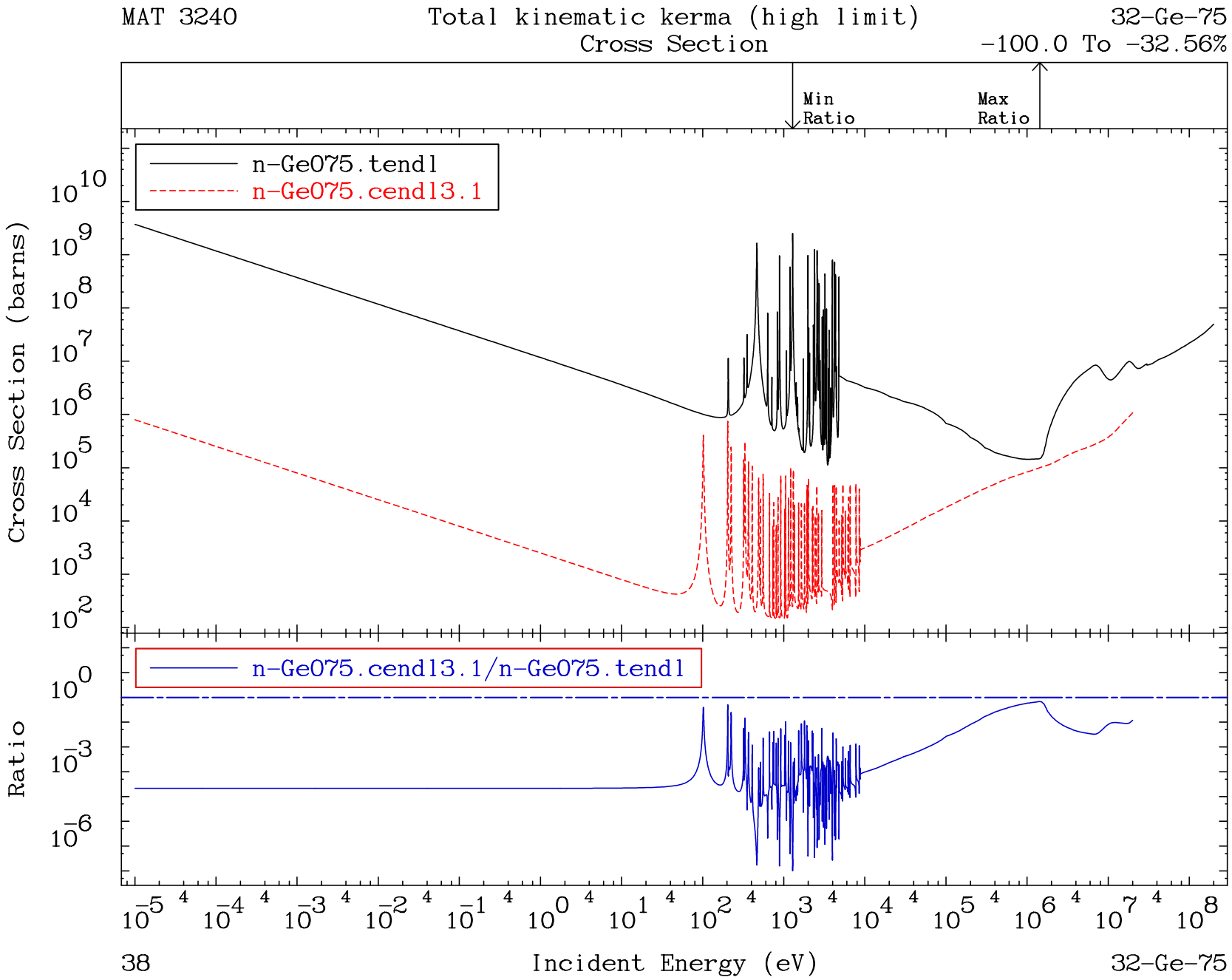

MAT 3240
Kerma non-elastic (all but mt2)
Cross Section
32-Ge-75
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
33
Incident Energy (eV)
32-Ge-75

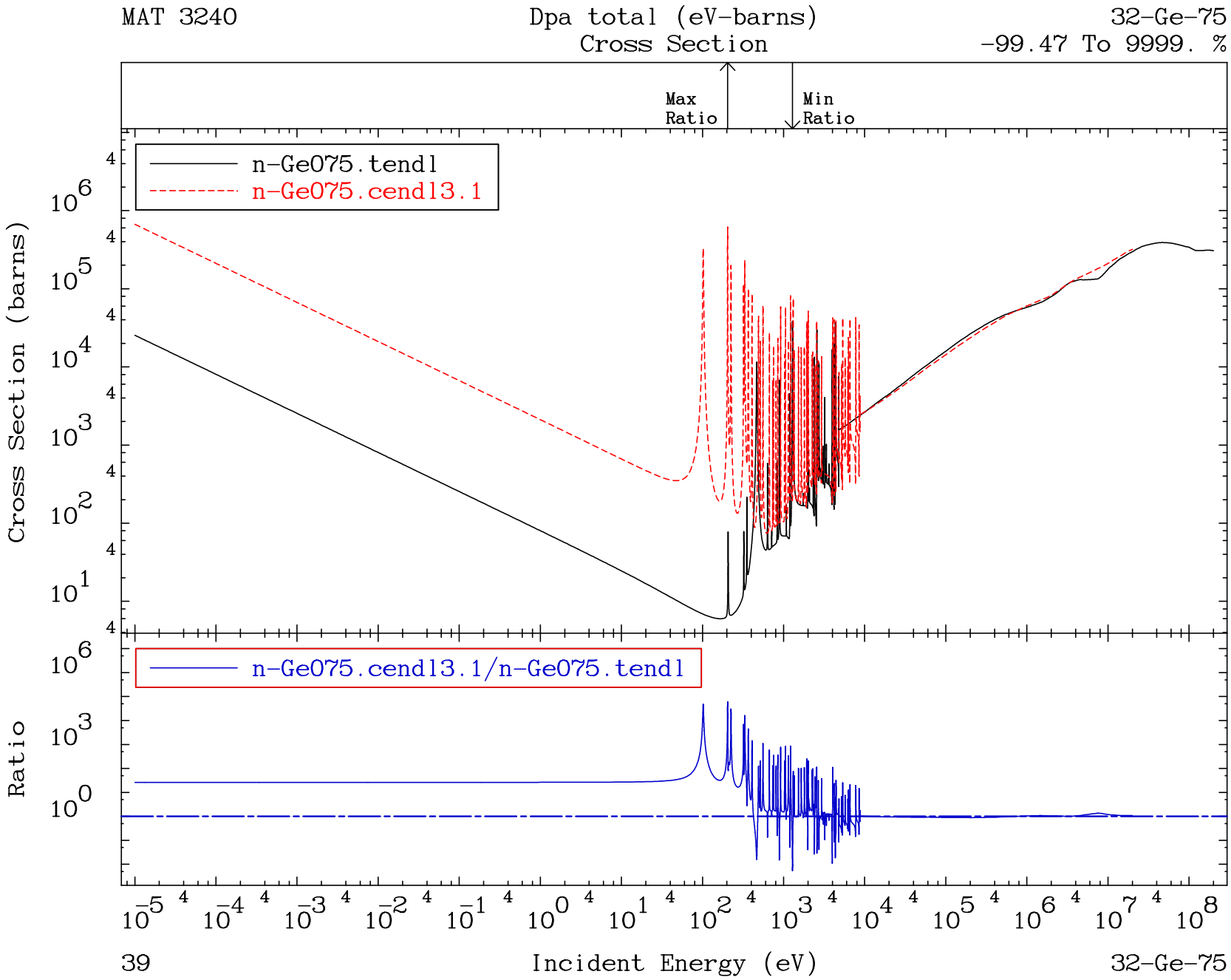

MAT 3240
Kerma inelastic (mt51-91)
Cross Section
32-Ge-75
-36.97 To 247.0 %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 70.000 keV
n-Ge075.cendl3.1 Threshold 62.733 keV
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
34
32-Ge-75

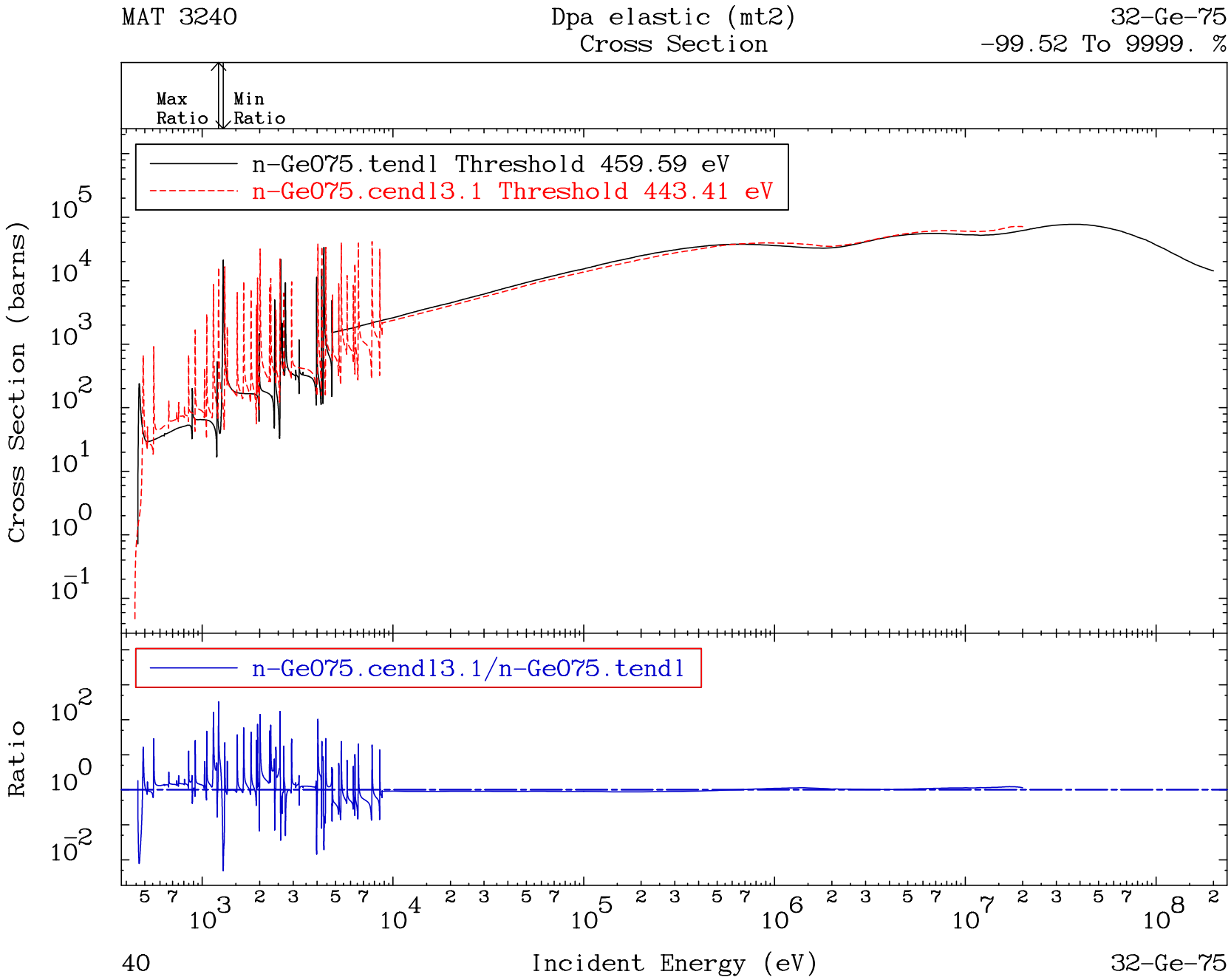

MAT 3240
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
32-Ge-75
-36.97 To 247.0 %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
4.0
3.0
2.0
1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
32-Ge-75

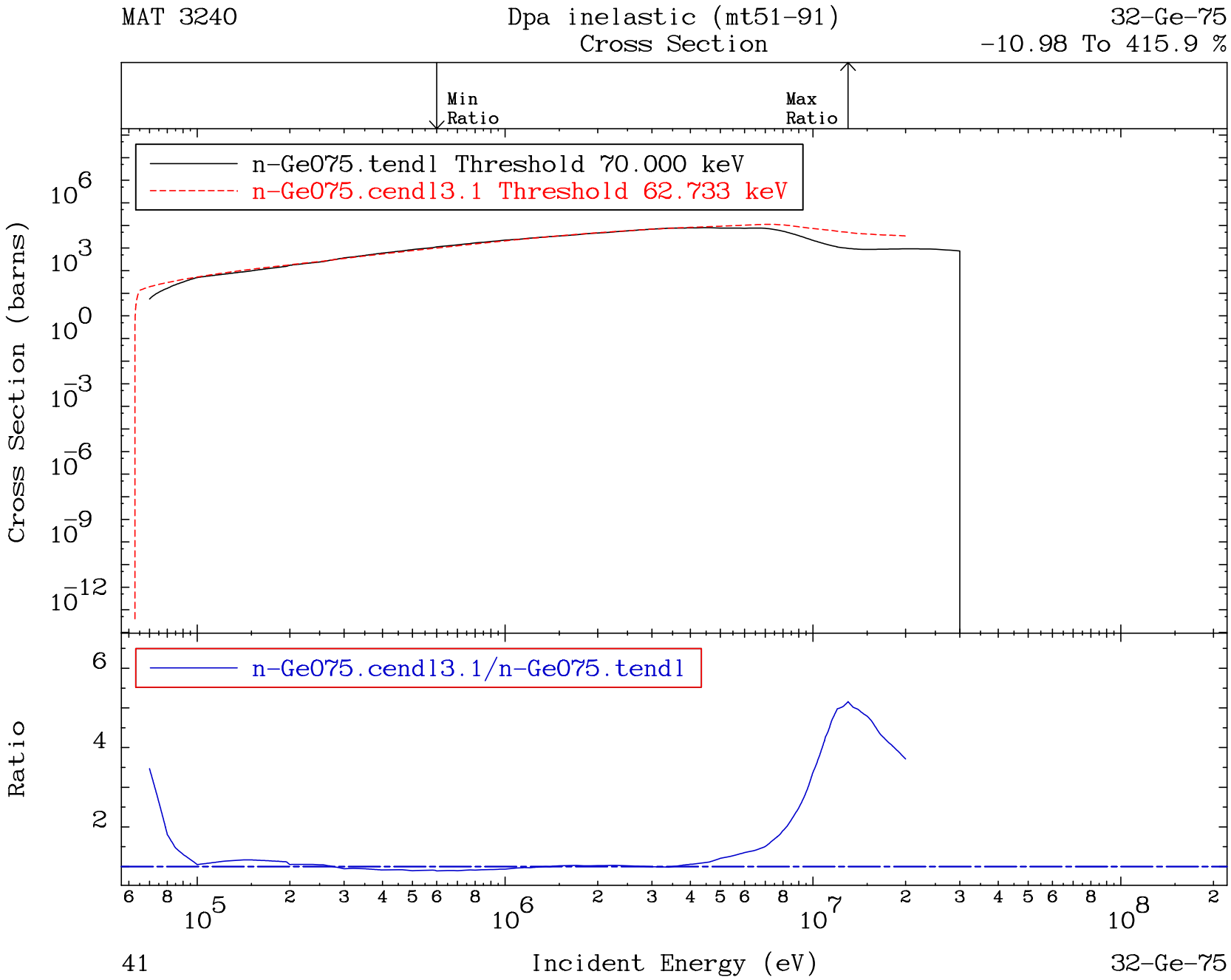

MAT 3240
Kerma capture (mt102)
Cross Section
32-Ge-75
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
36
32-Ge-75

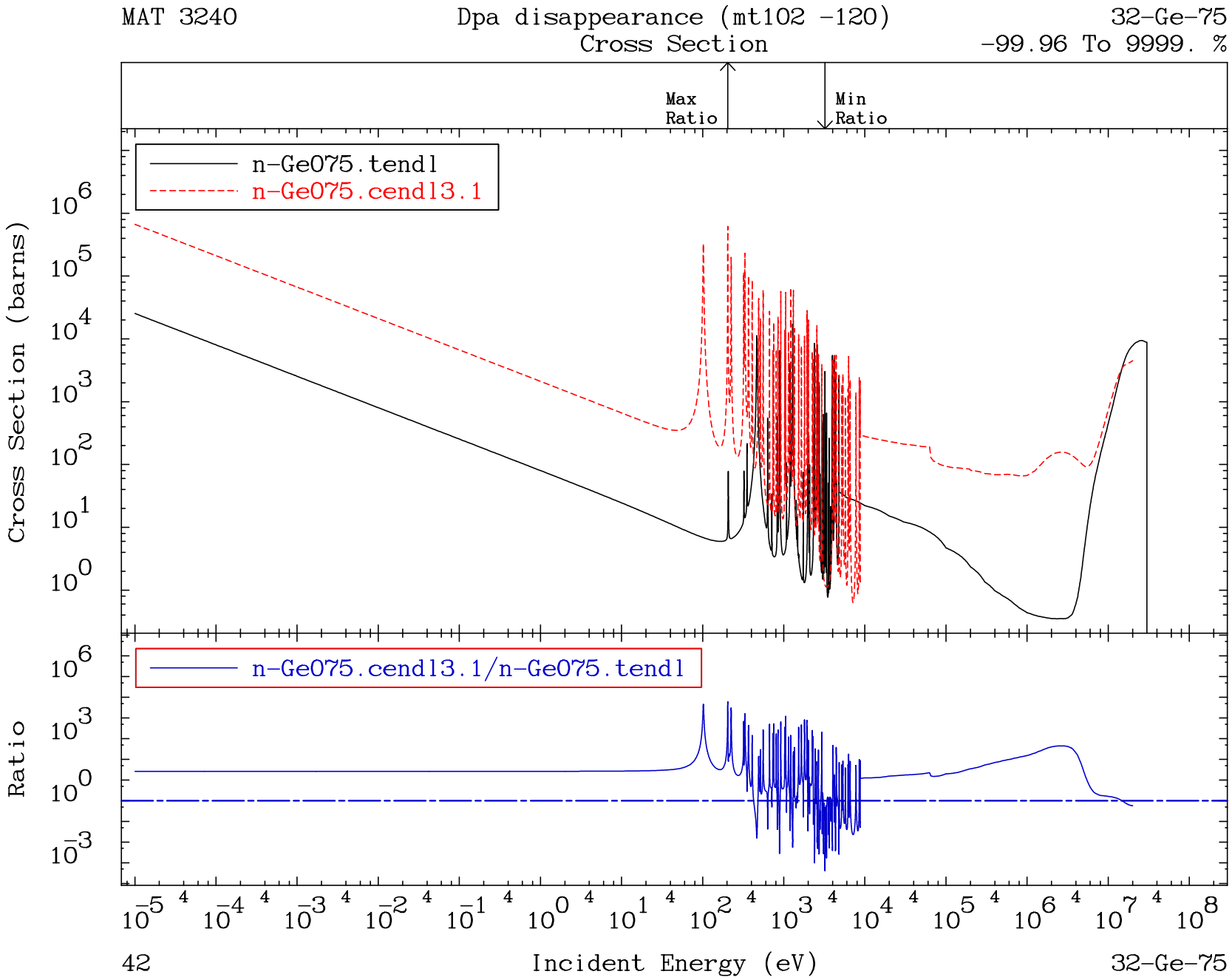

MAT 3240
Total photon (eV-barns)
Cross Section
32-Ge-75
-100.0 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (Gega-barns)
0
1
2
3
4
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
10^3
10^0
10^-3
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
37
Incident Energy (eV)
32-Ge-75


MAT 3240
Total kinematic kerma (high limit)
Cross Section
32-Ge-75
-100.0 To -32.56%
Min Ratio
Max Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
38
32-Ge-75


MAT 3240
Dpa total (eV-barns)
Cross Section
32-Ge-75
-99.47 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
39
32-Ge-75


MAT 3240
Dpa elastic (mt2)
Cross Section
32-Ge-75
-99.52 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl Threshold 459.59 eV
n-Ge075.cendl3.1 Threshold 443.41 eV
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
40
32-Ge-75


MAT 3240
Dpa inelastic (mt51-91)
Cross Section
32-Ge-75
-10.98 To 415.9 %
Min Ratio
Max Ratio
n-Ge075.tendl Threshold 70.000 keV
n-Ge075.cendl3.1 Threshold 62.733 keV
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
41
32-Ge-75


MAT 3240
Dpa disappearance (mt102 -120)
Cross Section
32-Ge-75
-99.96 To 9999. %
Max Ratio
Min Ratio
n-Ge075.tendl
n-Ge075.cendl3.1
Cross Section (barns)
n-Ge075.cendl3.1/n-Ge075.tendl
Ratio
Incident Energy (eV)
42
32-Ge-75