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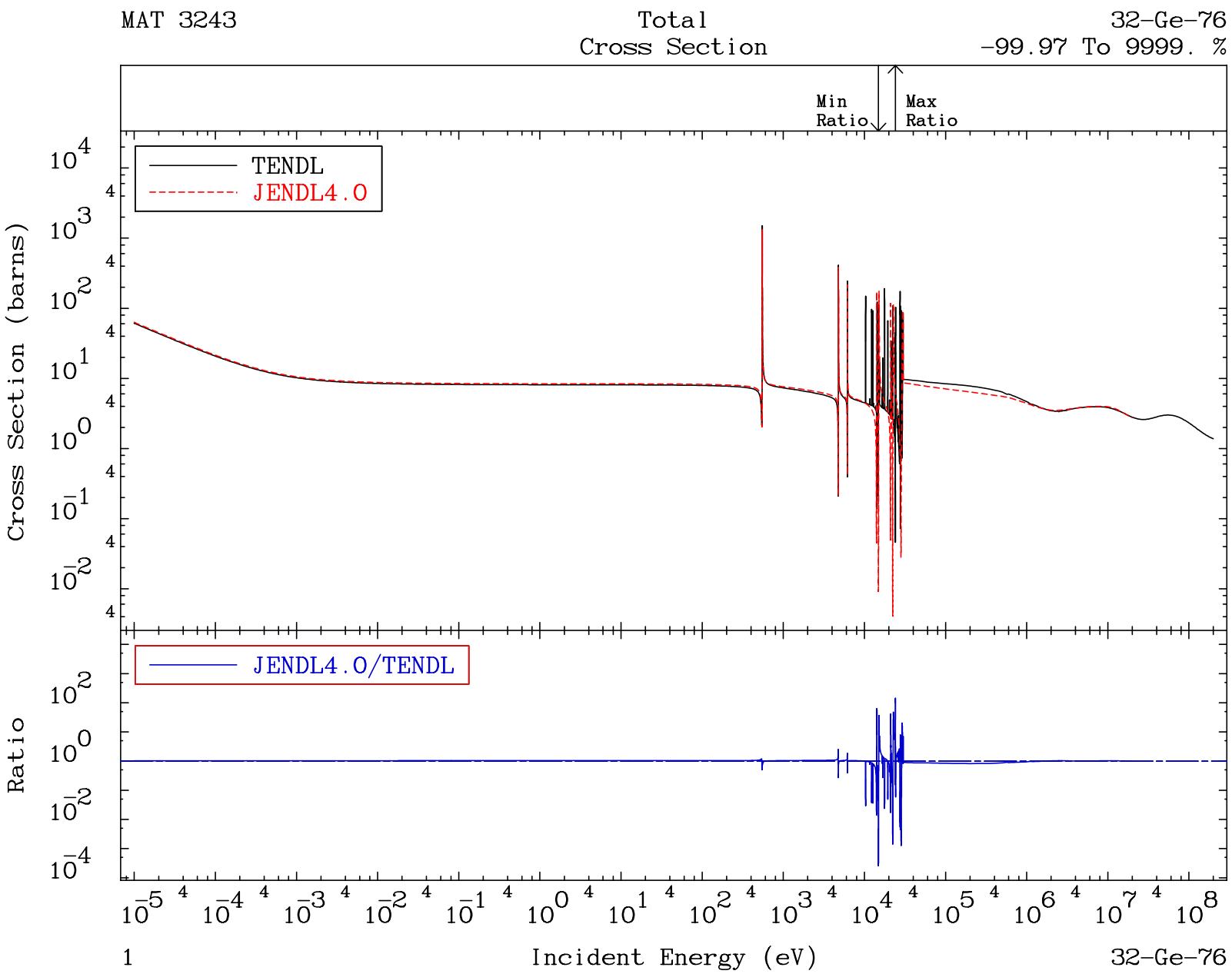
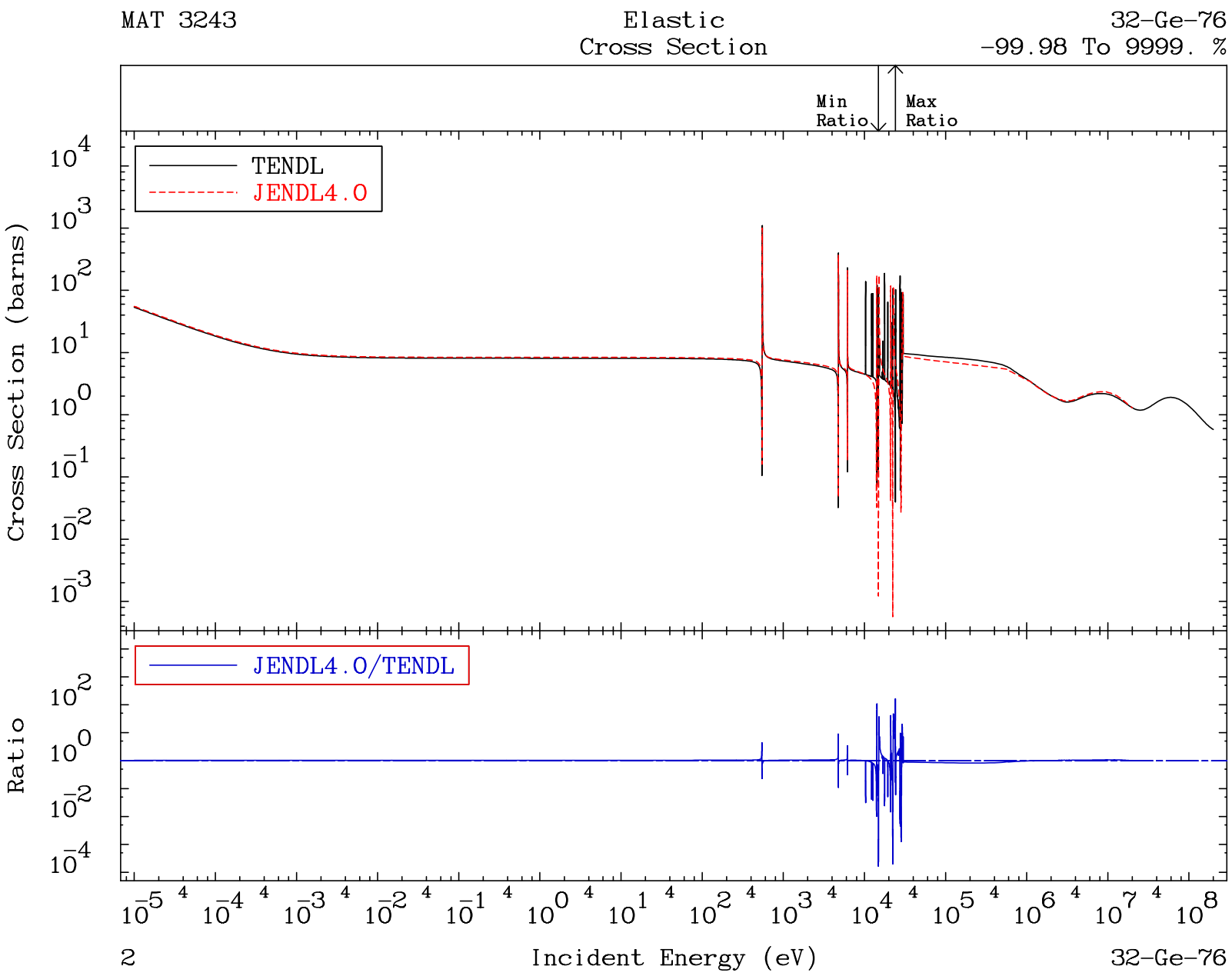
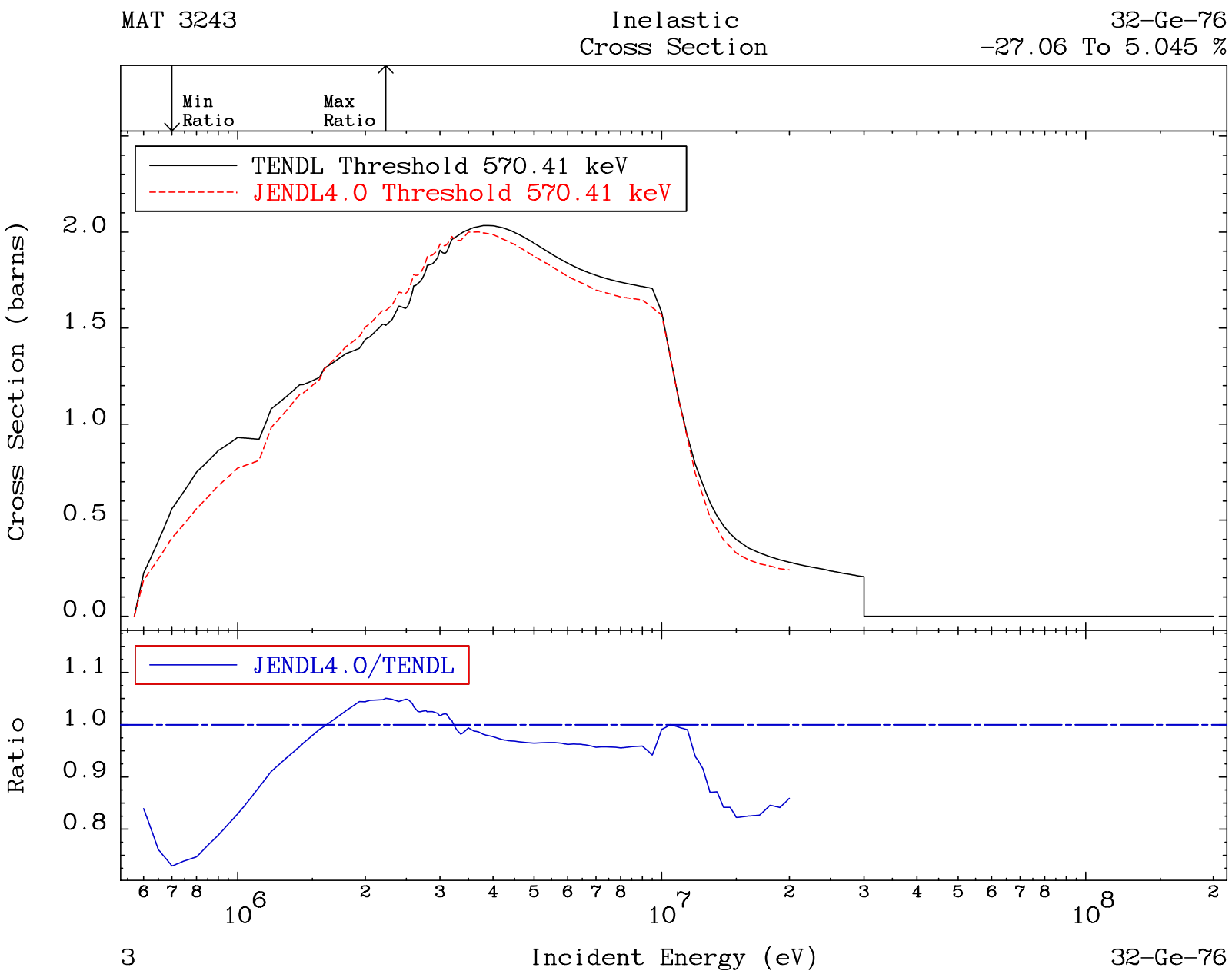
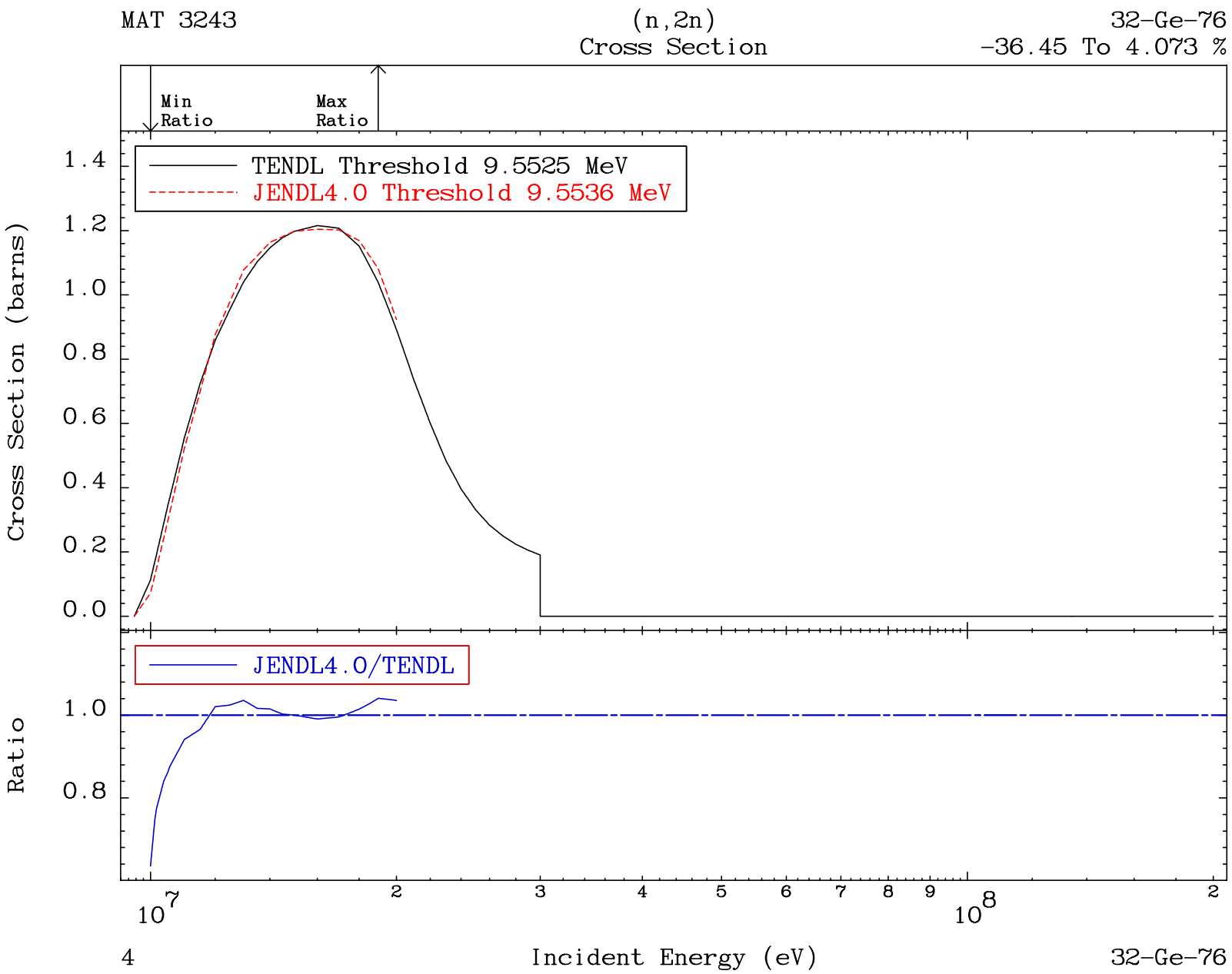
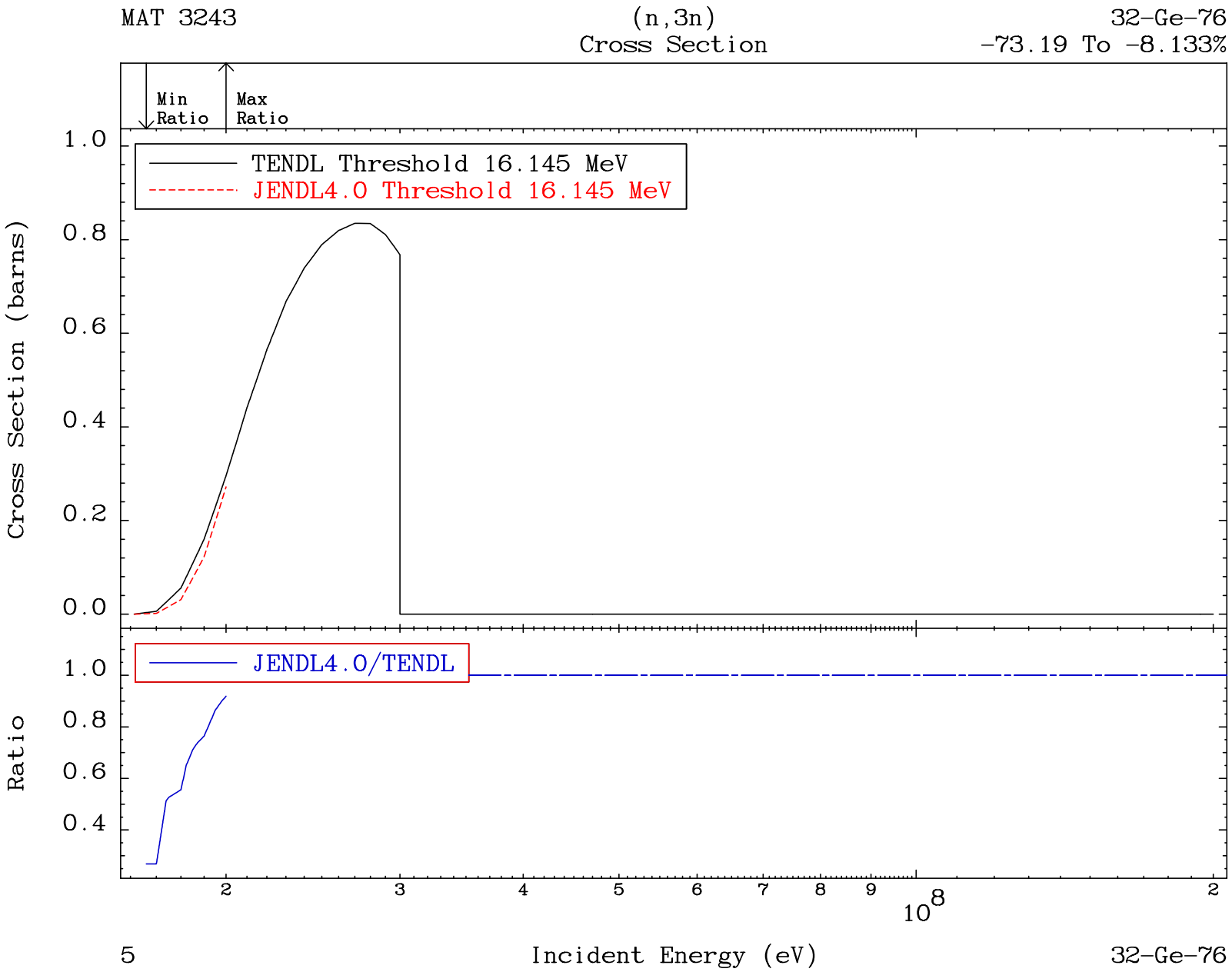
Press Mouse Button to Start

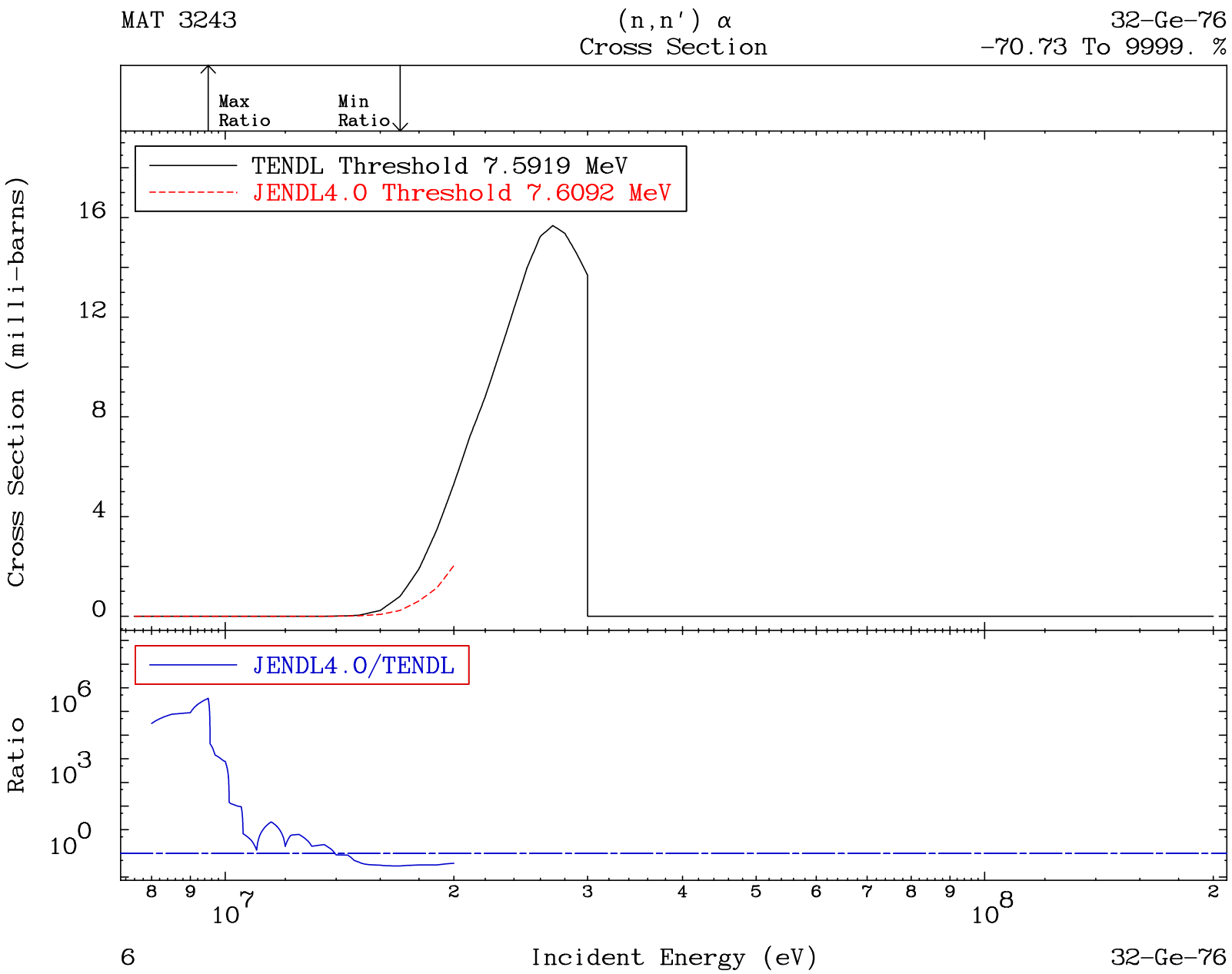

MAT 3243
Total
Cross Section
32-Ge-76
-99.97 To 9999. %
Min
Ratio
Max
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
32-Ge-76

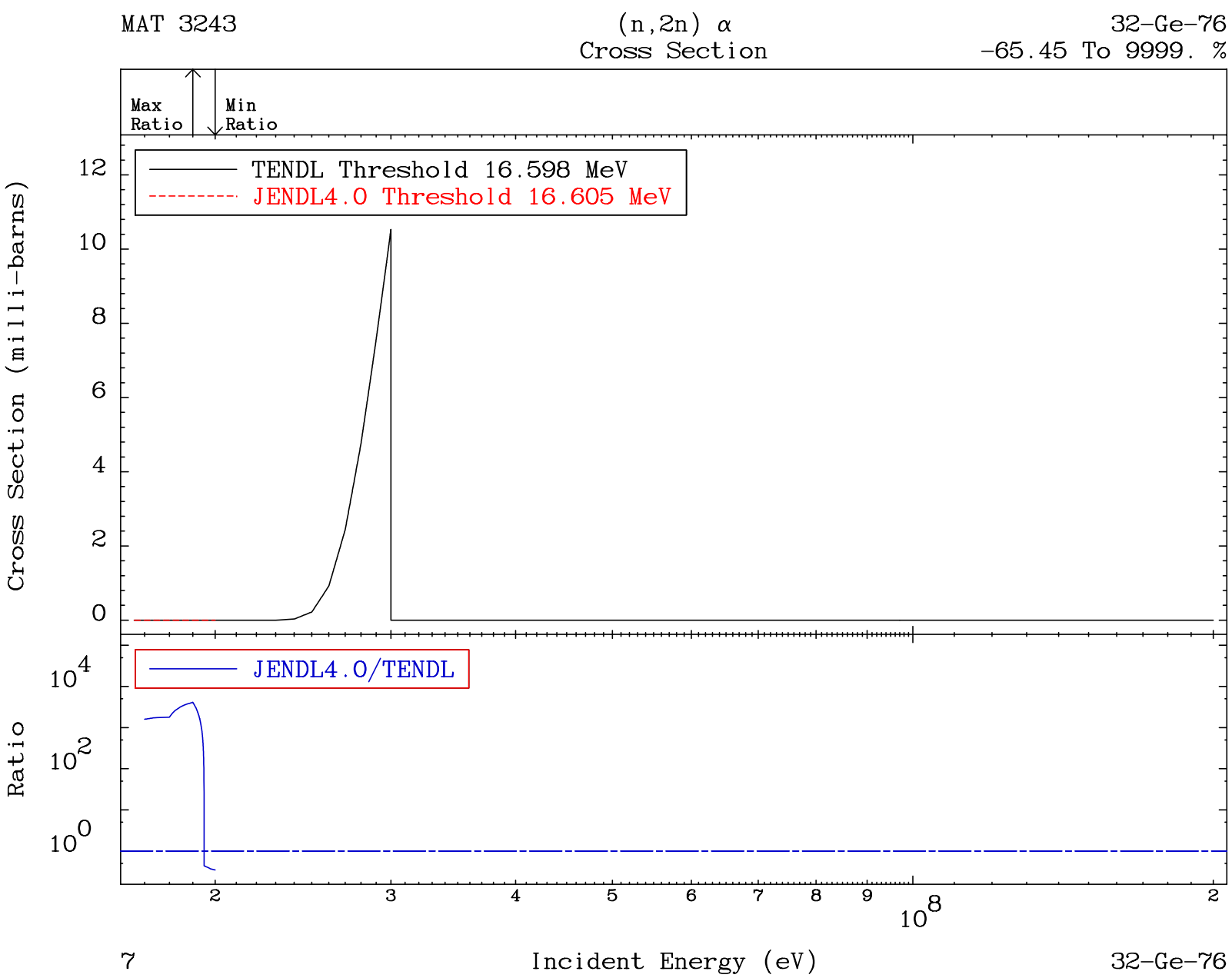

MAT 3243
Elastic
Cross Section
32-Ge-76
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
32-Ge-76

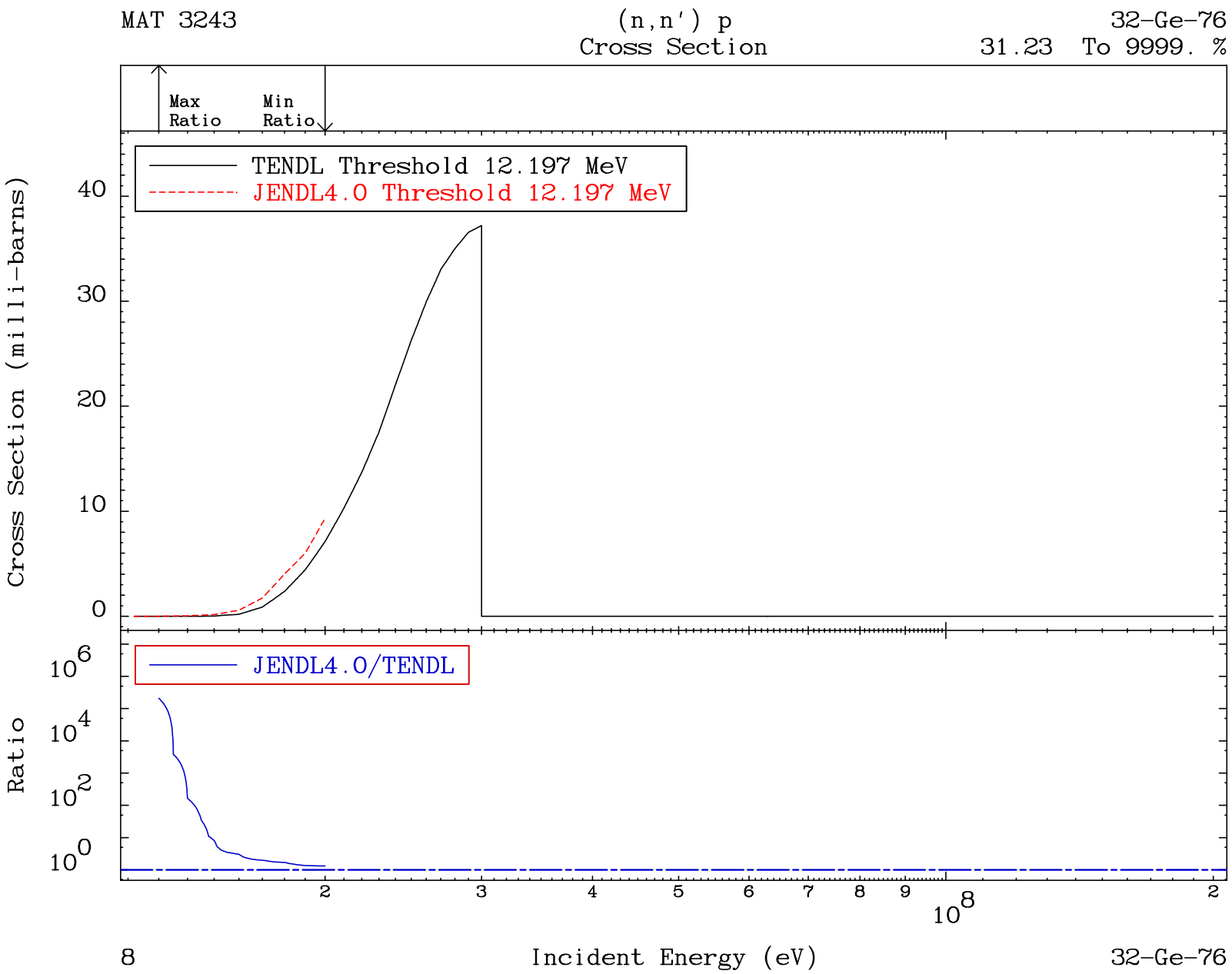

MAT 3243
Inelastic
Cross Section
32-Ge-76
-27.06 To 5.045 %
Min Ratio
Max Ratio
TENDL Threshold 570.41 keV
JENDL4.0 Threshold 570.41 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JENDL4.0/TENDL
Ratio
1.1
1.0
0.9
0.8
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
32-Ge-76

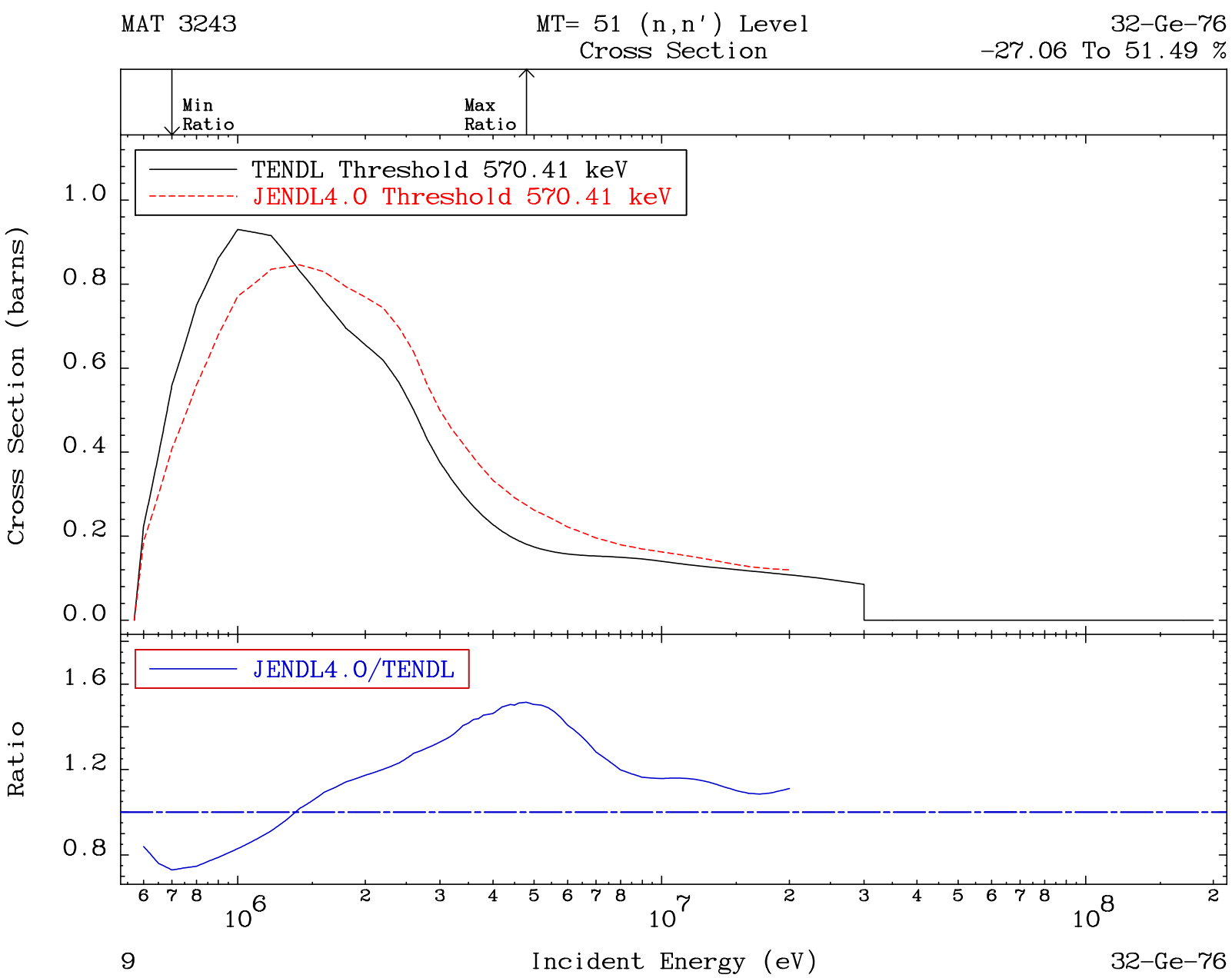

MAT 3243
(n,2n)
Cross Section
32-Ge-76
-36.45 To 4.073 %
Min Ratio
Max Ratio
TENDL Threshold 9.5525 MeV
JENDL4.0 Threshold 9.5536 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
32-Ge-76

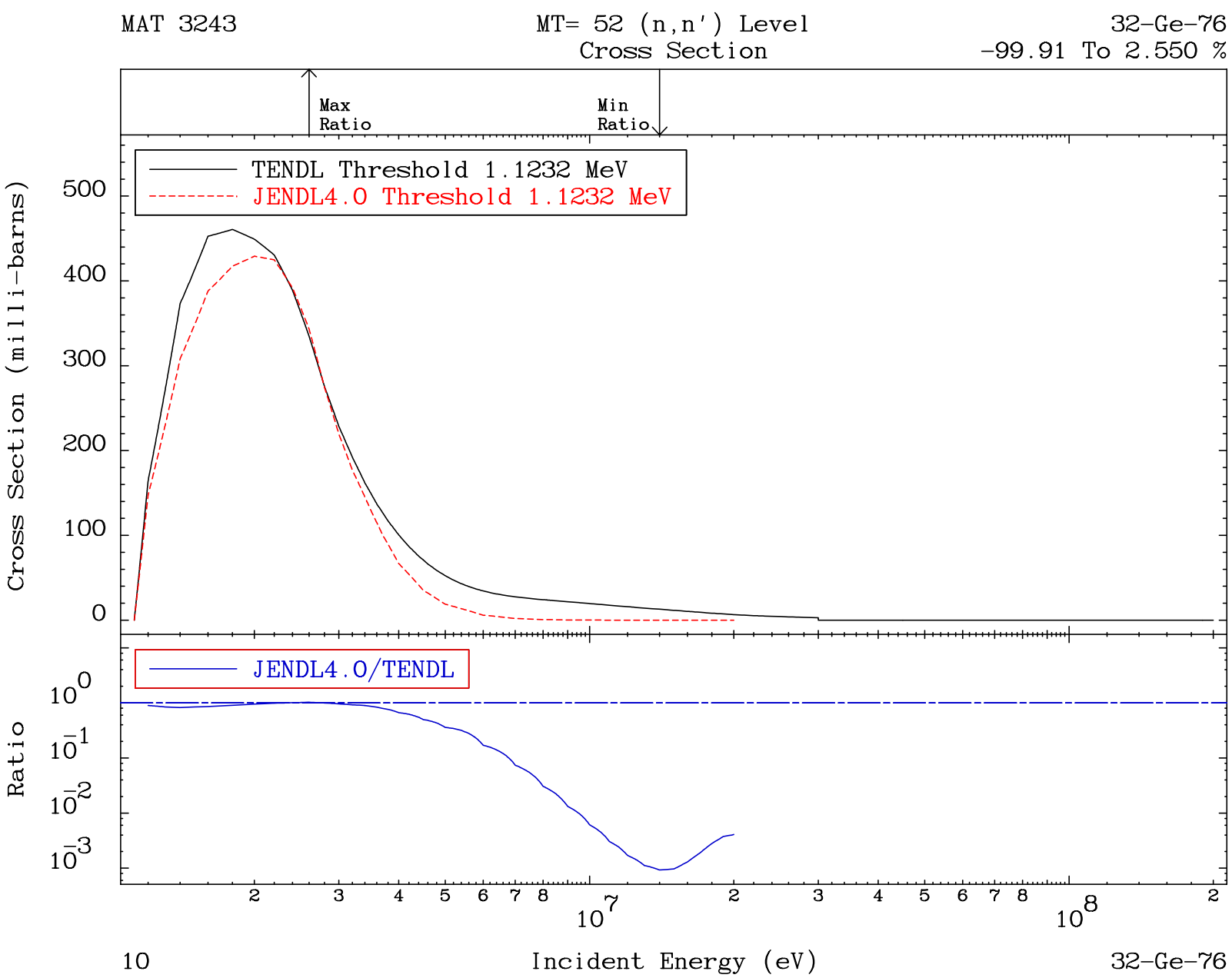

MAT 3243
(n,3n)
Cross Section
32-Ge-76
-73.19 To -8.133%
Min Ratio
Max Ratio
TENDL Threshold 16.145 MeV
JENDL4.0 Threshold 16.145 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.0
0.8
0.6
0.4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
32-Ge-76

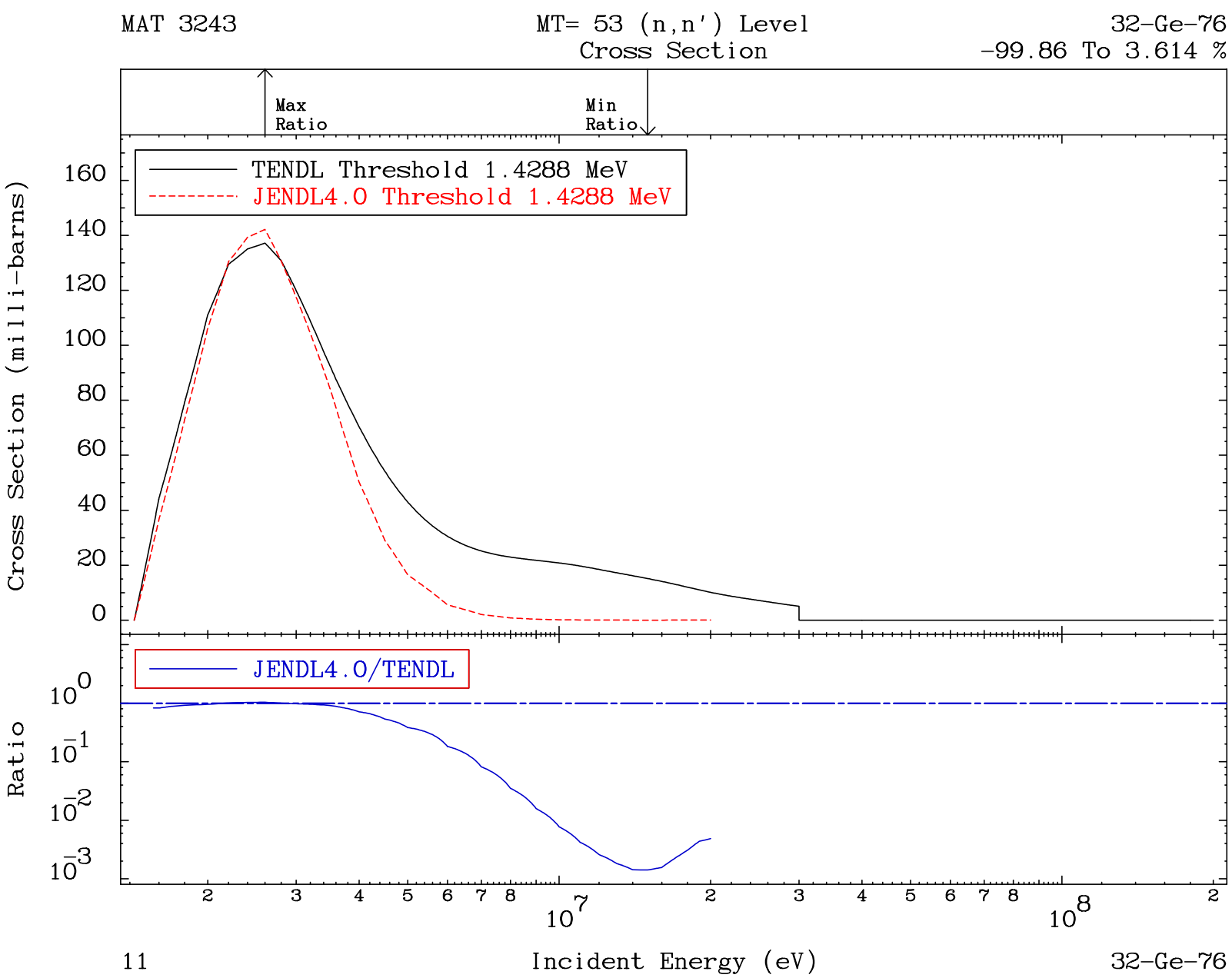

MAT 3243
(n,n') α
Cross Section
32-Ge-76
-70.73 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.5919 MeV
JENDL4.0 Threshold 7.6092 MeV
Cross Section (milli-barns)
16
12
8
4
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
32-Ge-76

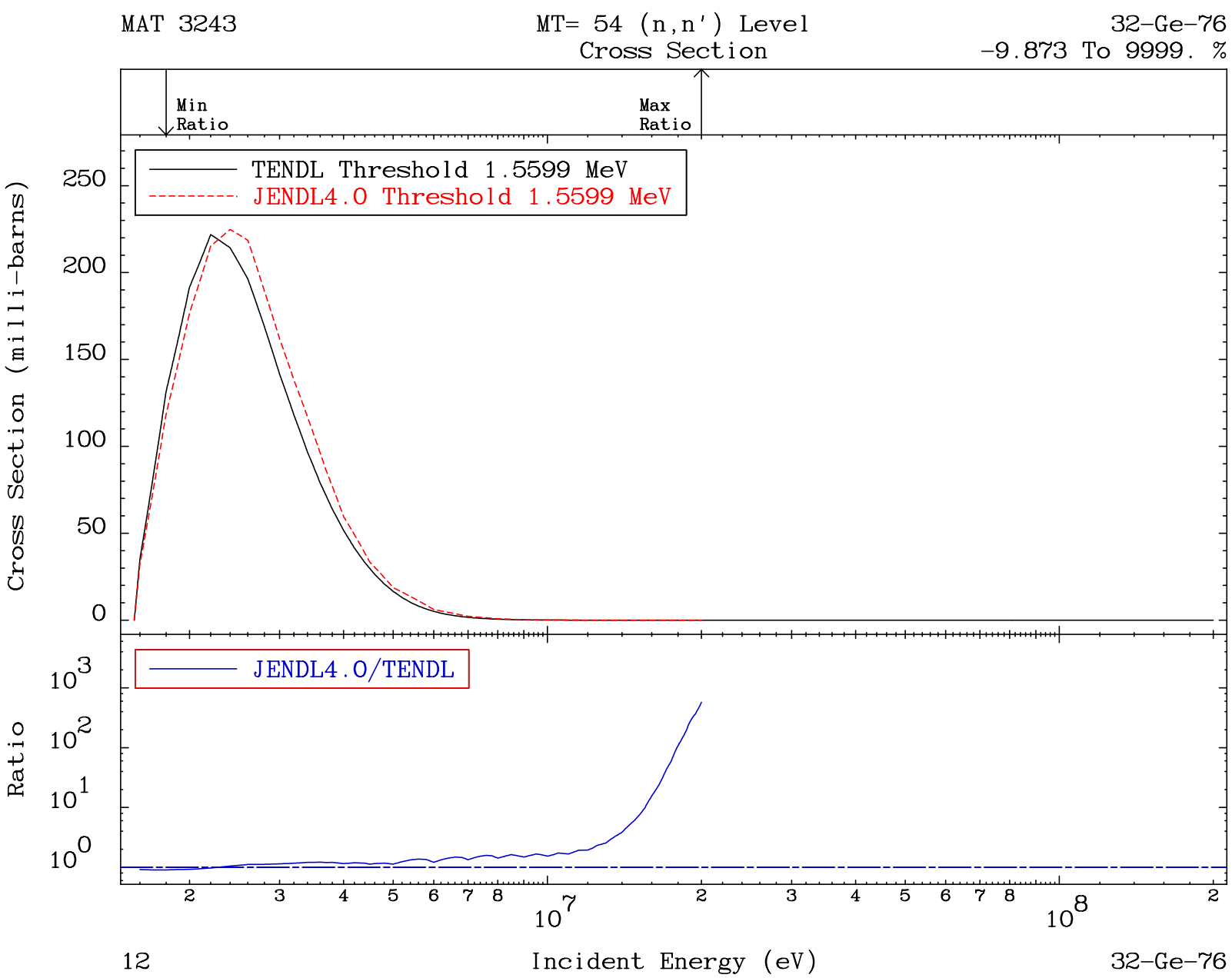

MAT 3243
(n,2n) α
Cross Section
32-Ge-76
-65.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.598 MeV
JENDL4.0 Threshold 16.605 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
32-Ge-76

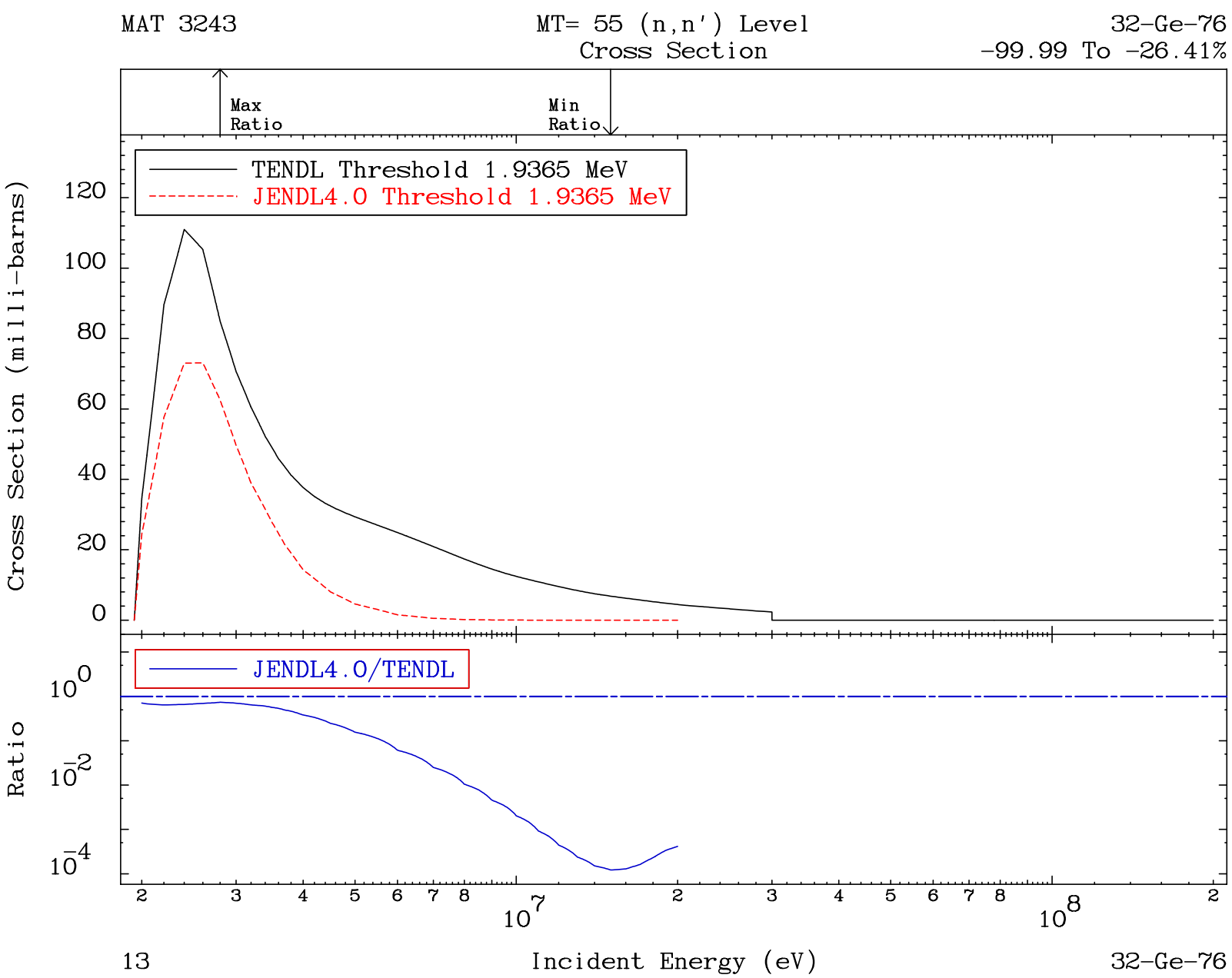

MAT 3243
(n,n') p
Cross Section
32-Ge-76
31.23 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 12.197 MeV
JENDL4.0 Threshold 12.197 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
32-Ge-76

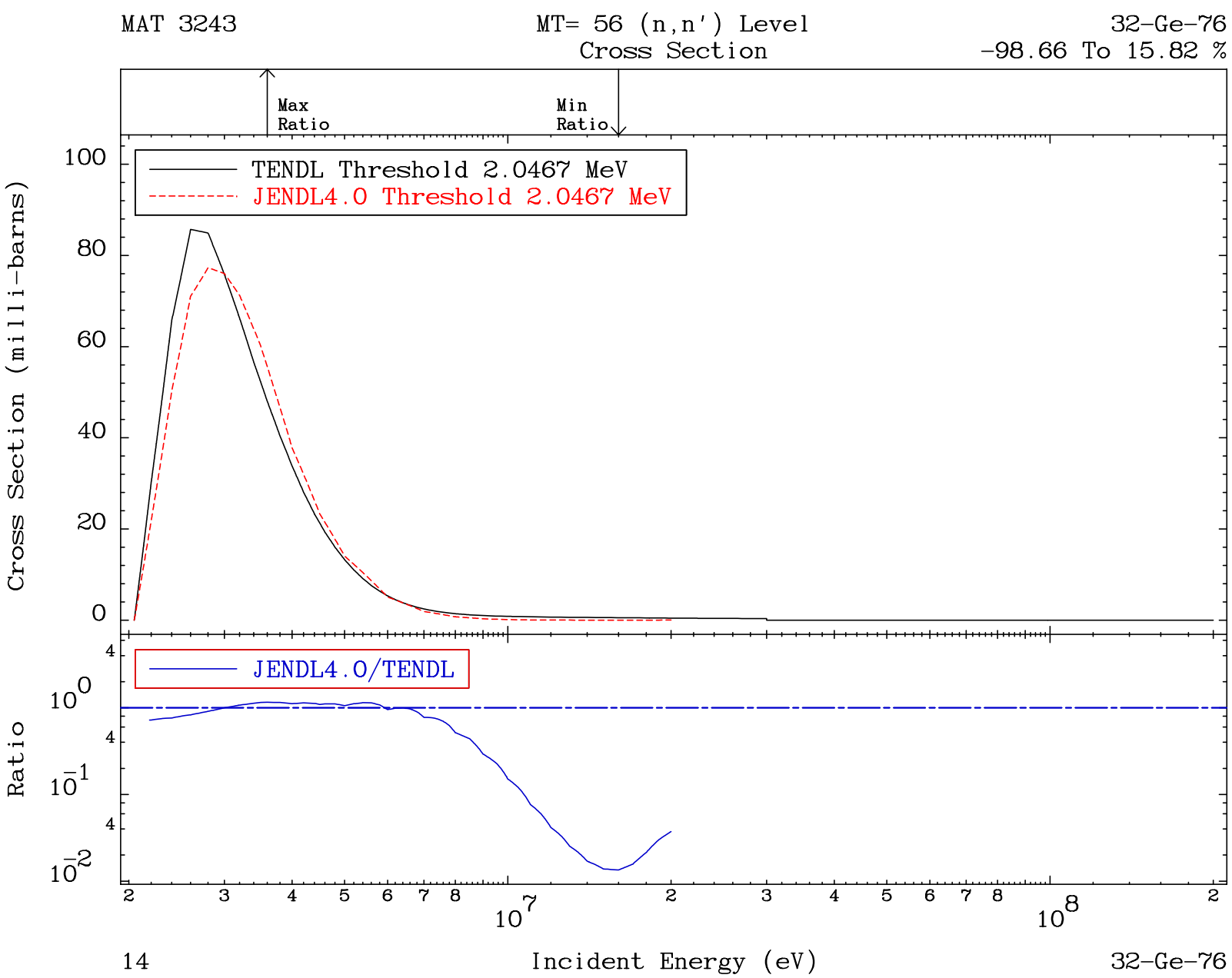

MAT 3243
MT= 51 (n,n') Level
Cross Section
32-Ge-76
-27.06 To 51.49 %
Min Ratio
Max Ratio
TENDL Threshold 570.41 keV
JENDL4.0 Threshold 570.41 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
9
32-Ge-76

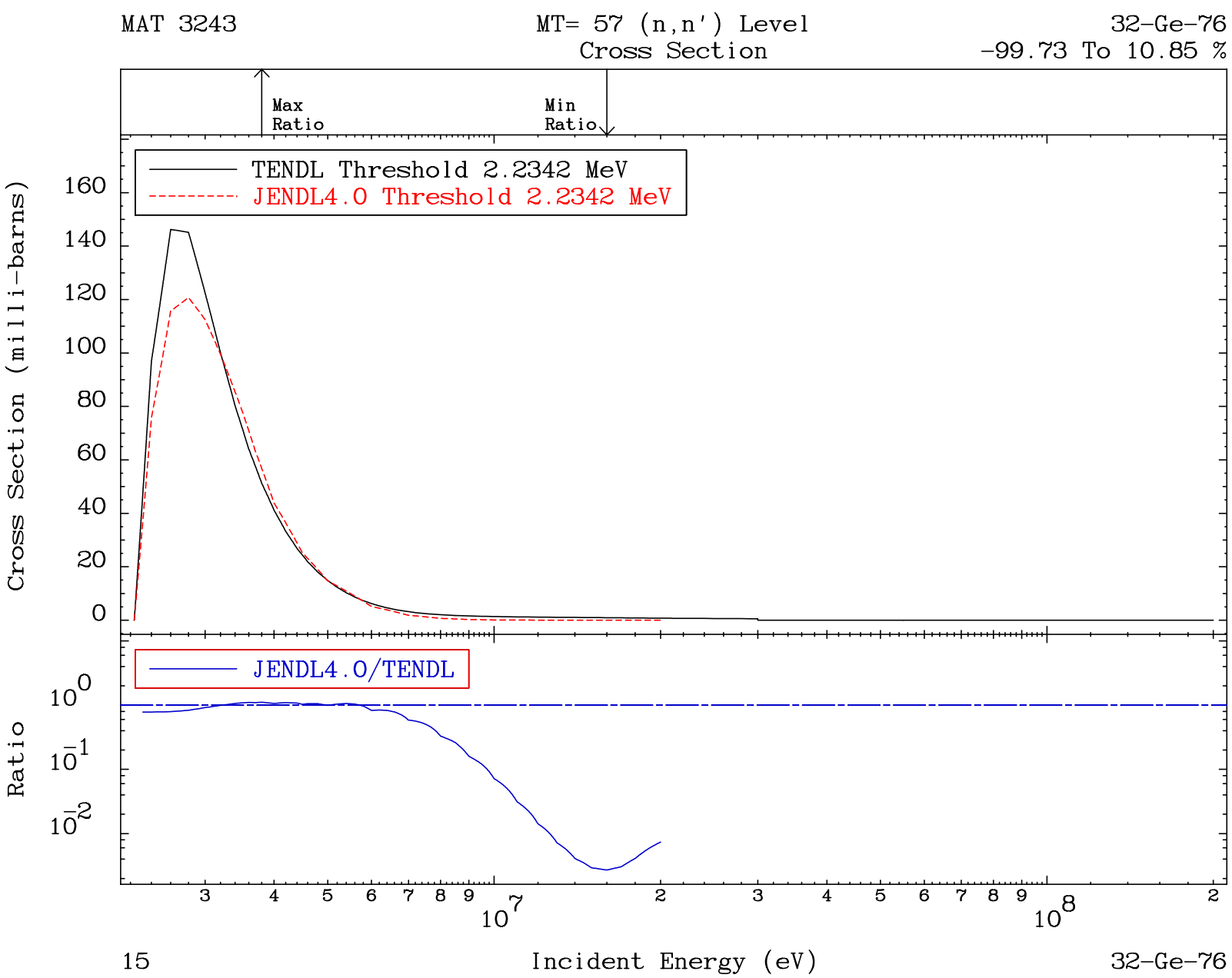

MAT 3243
MT= 52 (n,n') Level
Cross Section
32-Ge-76
-99.91 To 2.550 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1232 MeV
JENDL4.0 Threshold 1.1232 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
32-Ge-76

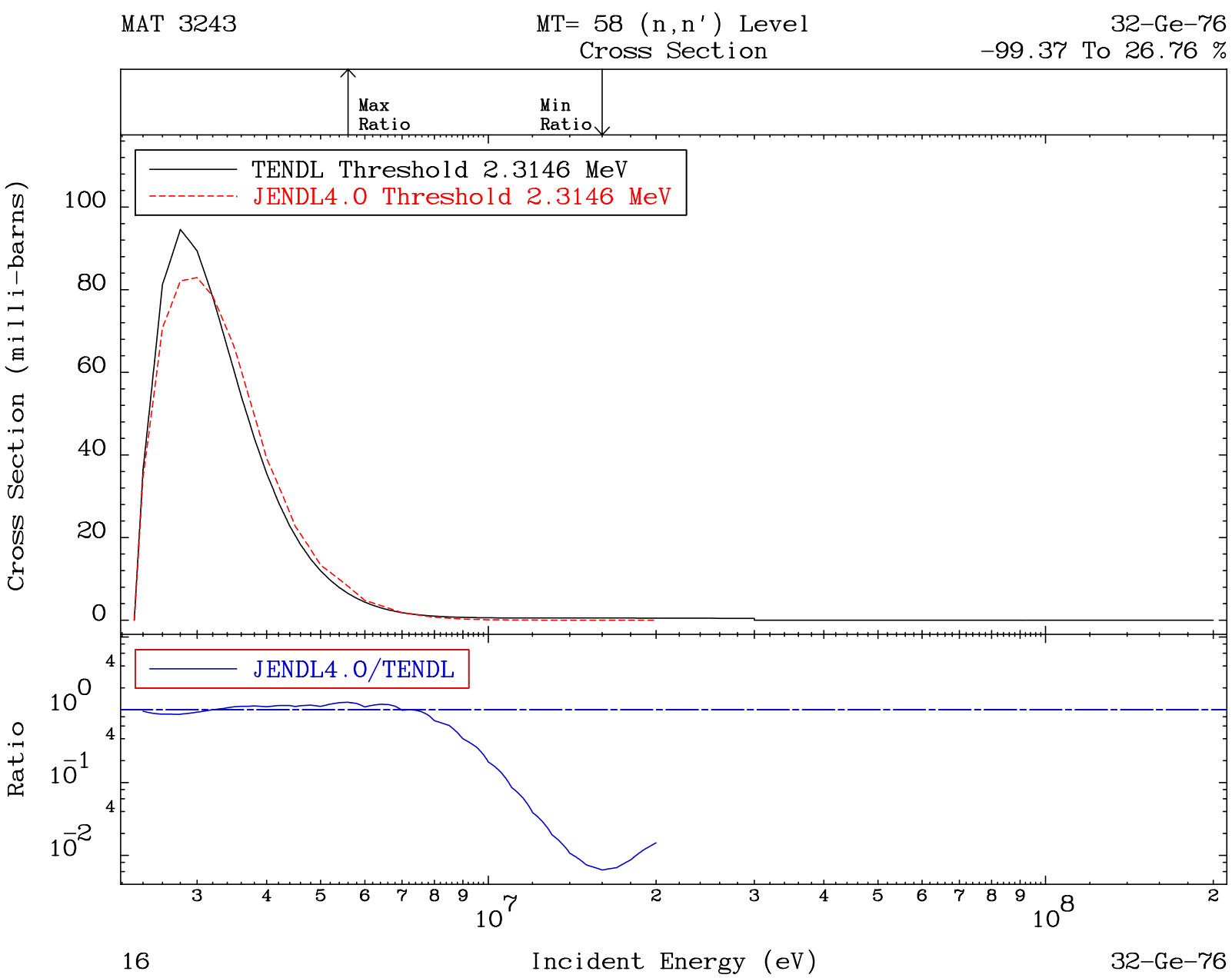

MAT 3243
MT= 53 (n,n') Level
Cross Section
32-Ge-76
-99.86 To 3.614 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.4288 MeV
JENDL4.0 Threshold 1.4288 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
11
Incident Energy (eV)
32-Ge-76

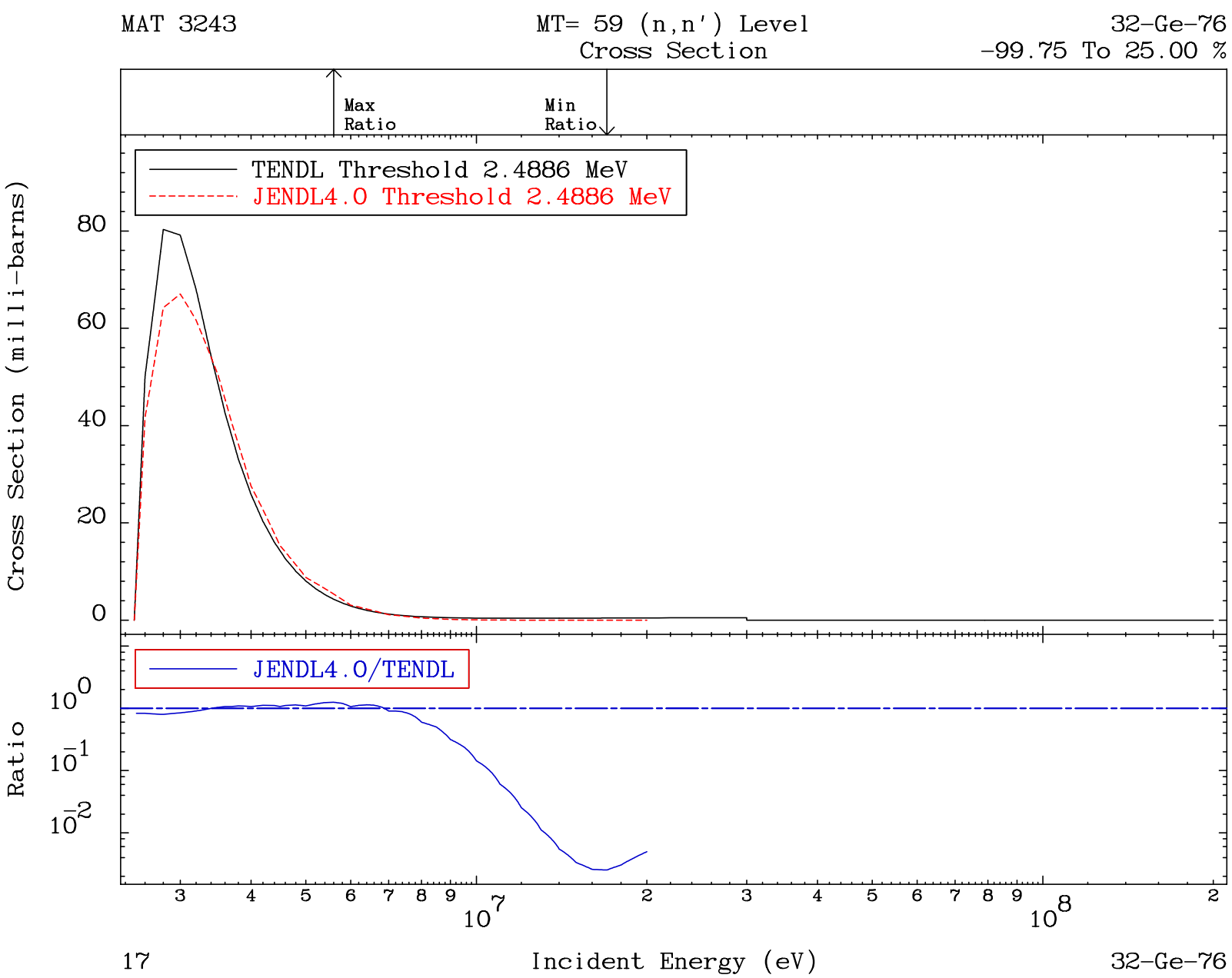

MAT 3243
MT= 54 (n,n') Level
Cross Section
32-Ge-76
-9.873 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5599 MeV
JENDL4.0 Threshold 1.5599 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
12
Incident Energy (eV)
32-Ge-76

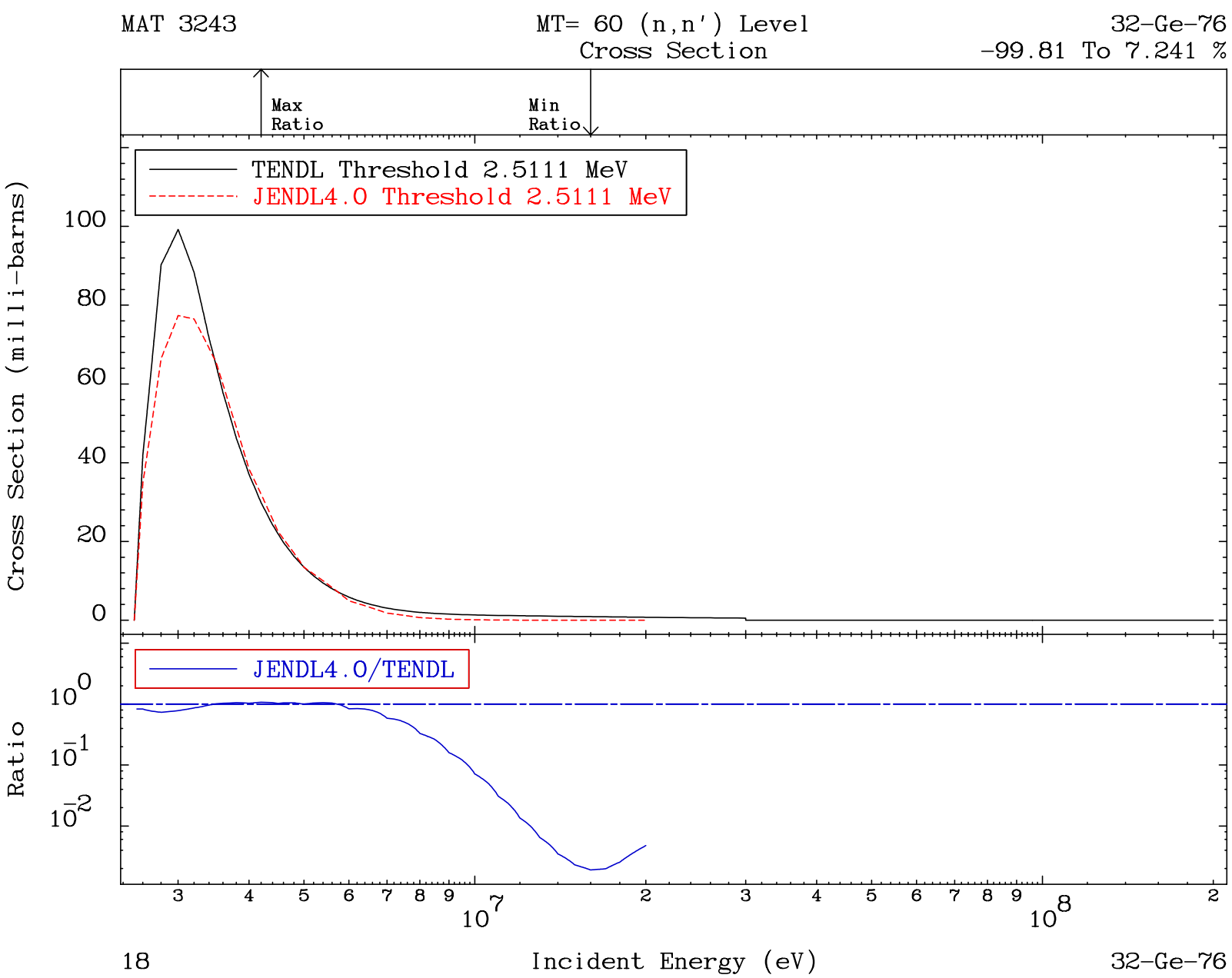

MAT 3243
MT= 55 (n,n') Level
Cross Section
32-Ge-76
-99.99 To -26.41%
Max
Ratio
Min
Ratio
TENDL Threshold 1.9365 MeV
JENDL4.0 Threshold 1.9365 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
32-Ge-76

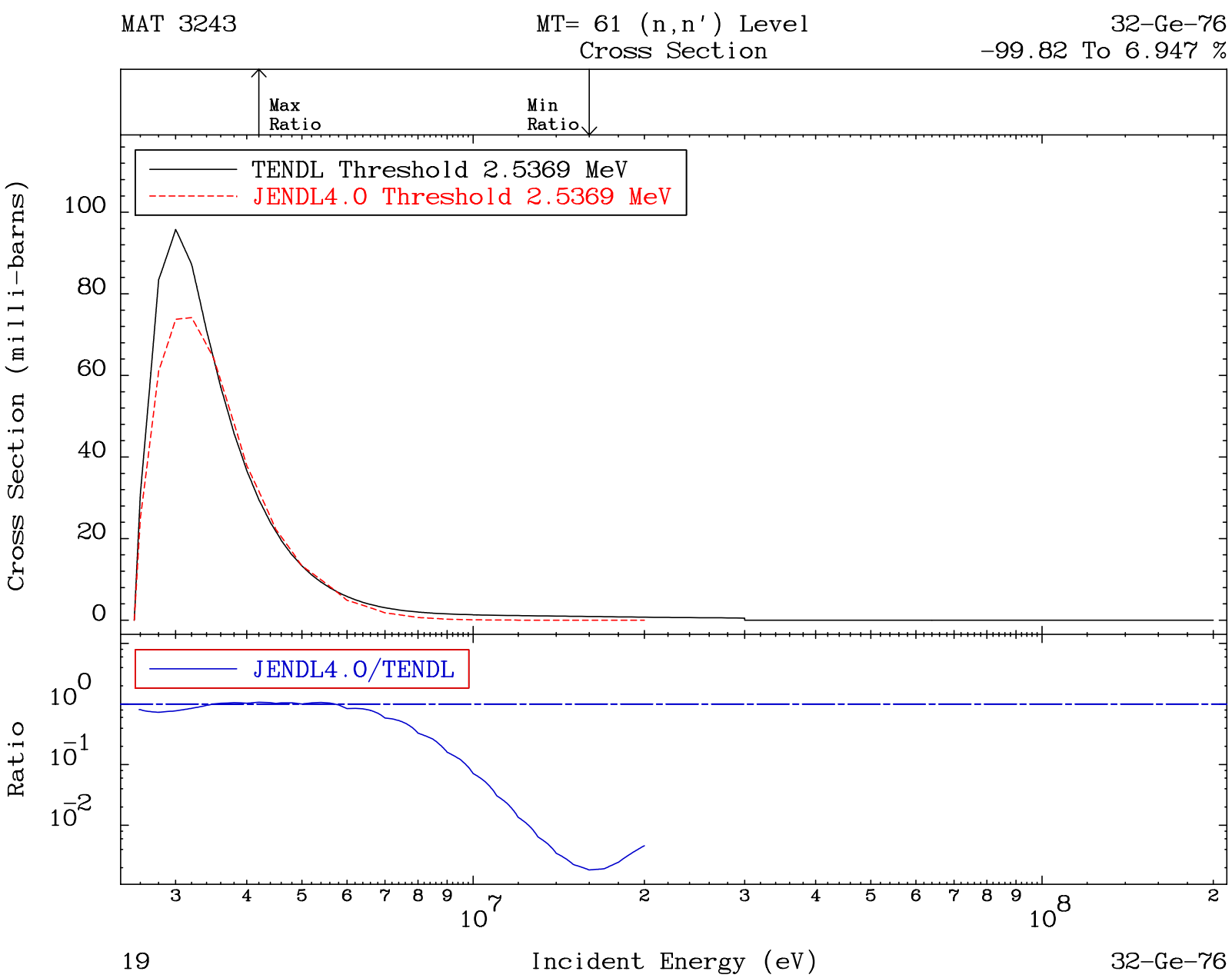

MAT 3243
MT= 56 (n,n') Level
Cross Section
32-Ge-76
-98.66 To 15.82 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.0467 MeV
JENDL4.0 Threshold 2.0467 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
2
3
4
5
6
7
8
10^7
10^8
14
Incident Energy (eV)
32-Ge-76

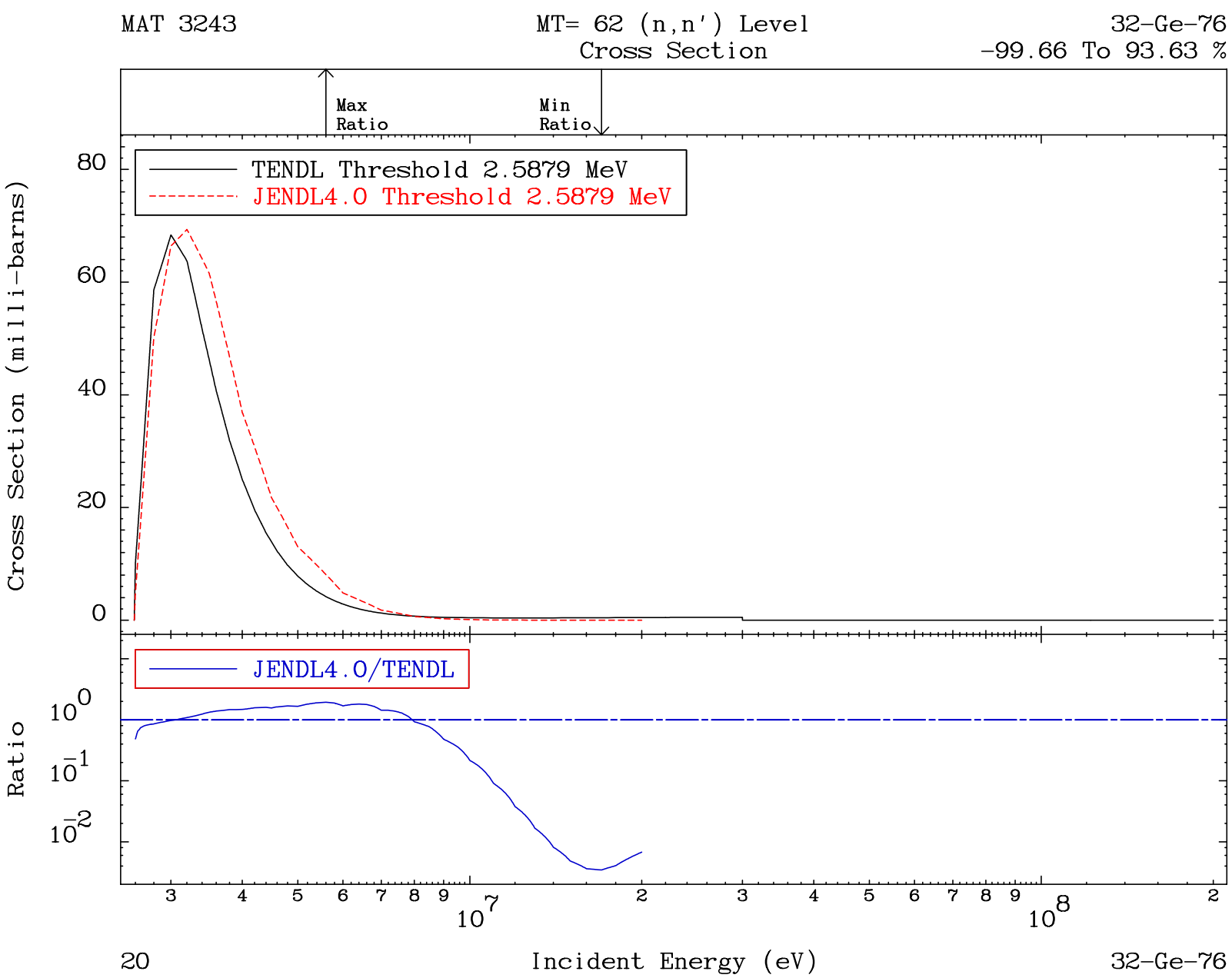

MAT 3243
MT= 57 (n,n') Level
Cross Section
32-Ge-76
-99.73 To 10.85 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.2342 MeV
JENDL4.0 Threshold 2.2342 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
15
Incident Energy (eV)
32-Ge-76

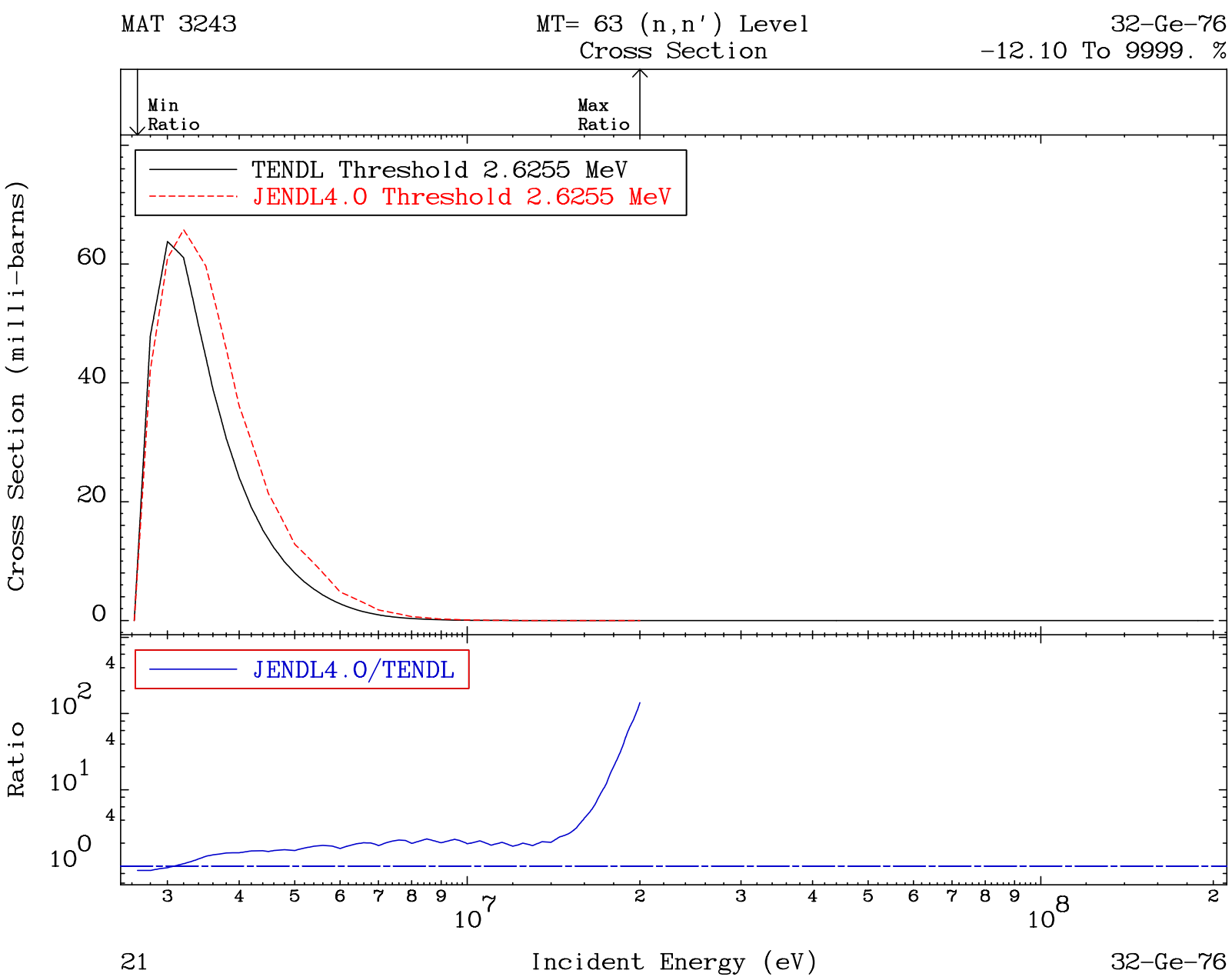

MAT 3243
MT= 58 (n,n') Level
Cross Section
32-Ge-76
-99.37 To 26.76 %
Max Ratio
Min Ratio
TENDL Threshold 2.3146 MeV
JENDL4.0 Threshold 2.3146 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
32-Ge-76

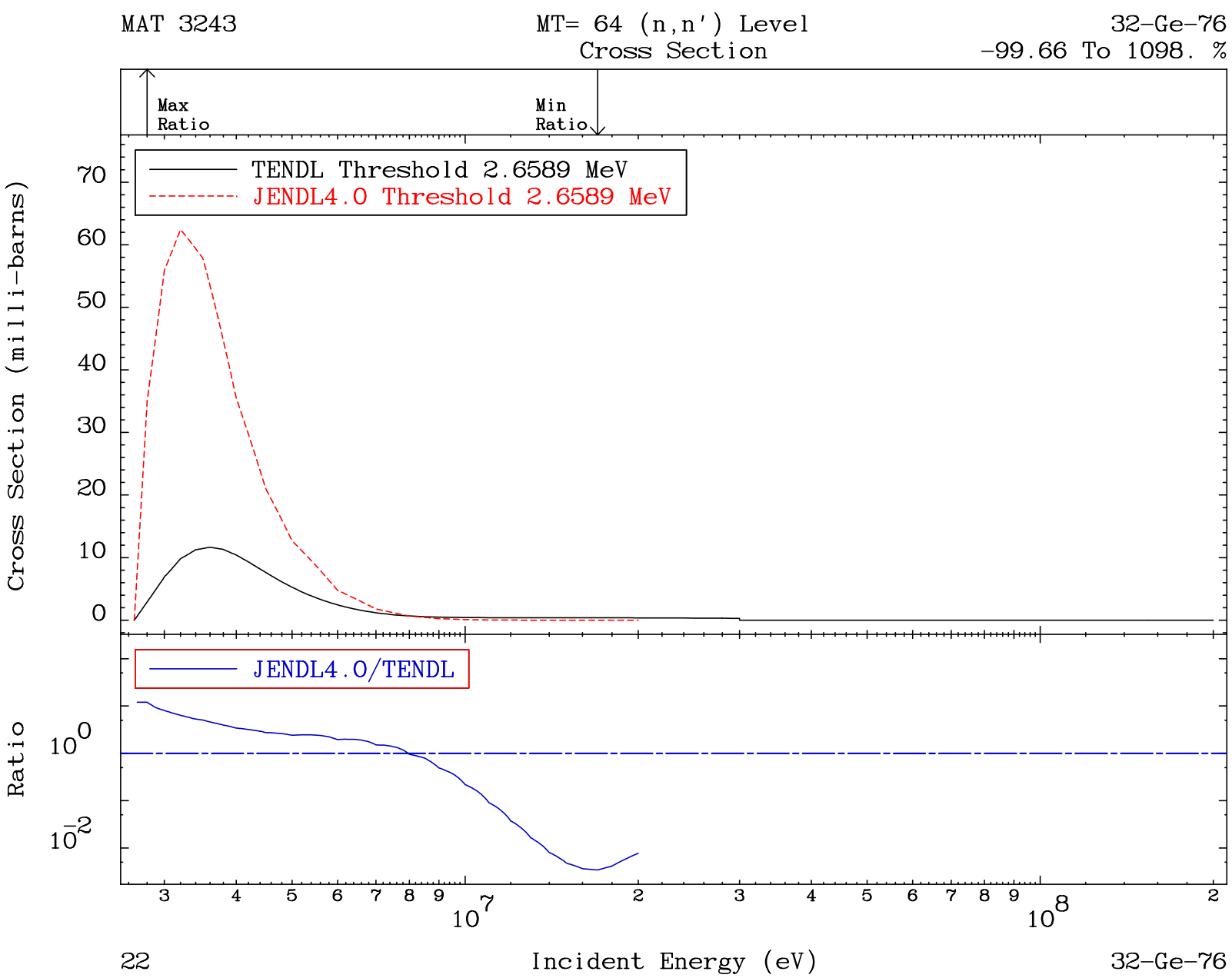

MAT 3243
MT= 59 (n,n') Level
Cross Section
32-Ge-76
-99.75 To 25.00 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.4886 MeV
JENDL4.0 Threshold 2.4886 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
32-Ge-76

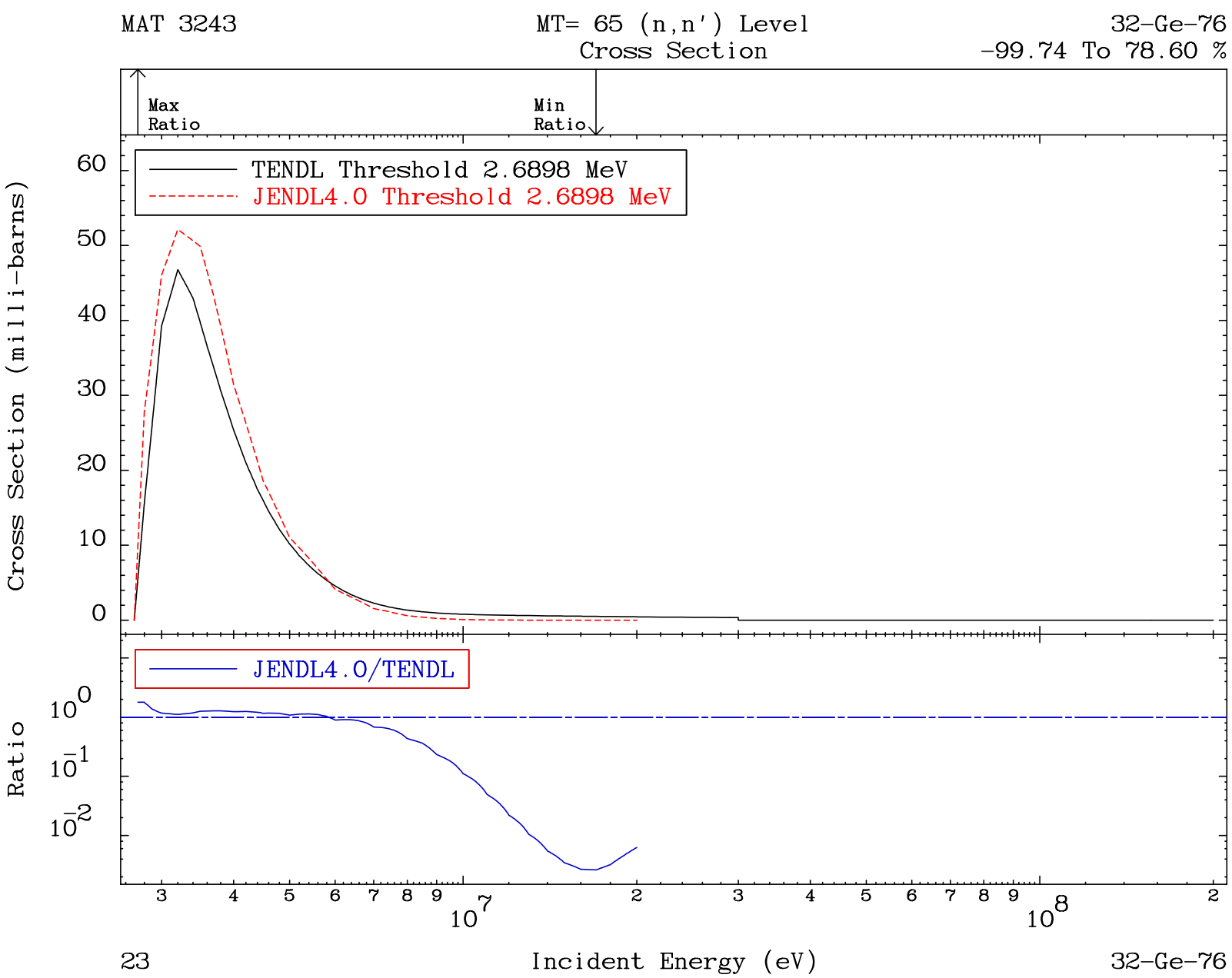

MAT 3243
MT= 60 (n,n') Level
Cross Section
32-Ge-76
-99.81 To 7.241 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.5111 MeV
JENDL4.0 Threshold 2.5111 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
32-Ge-76

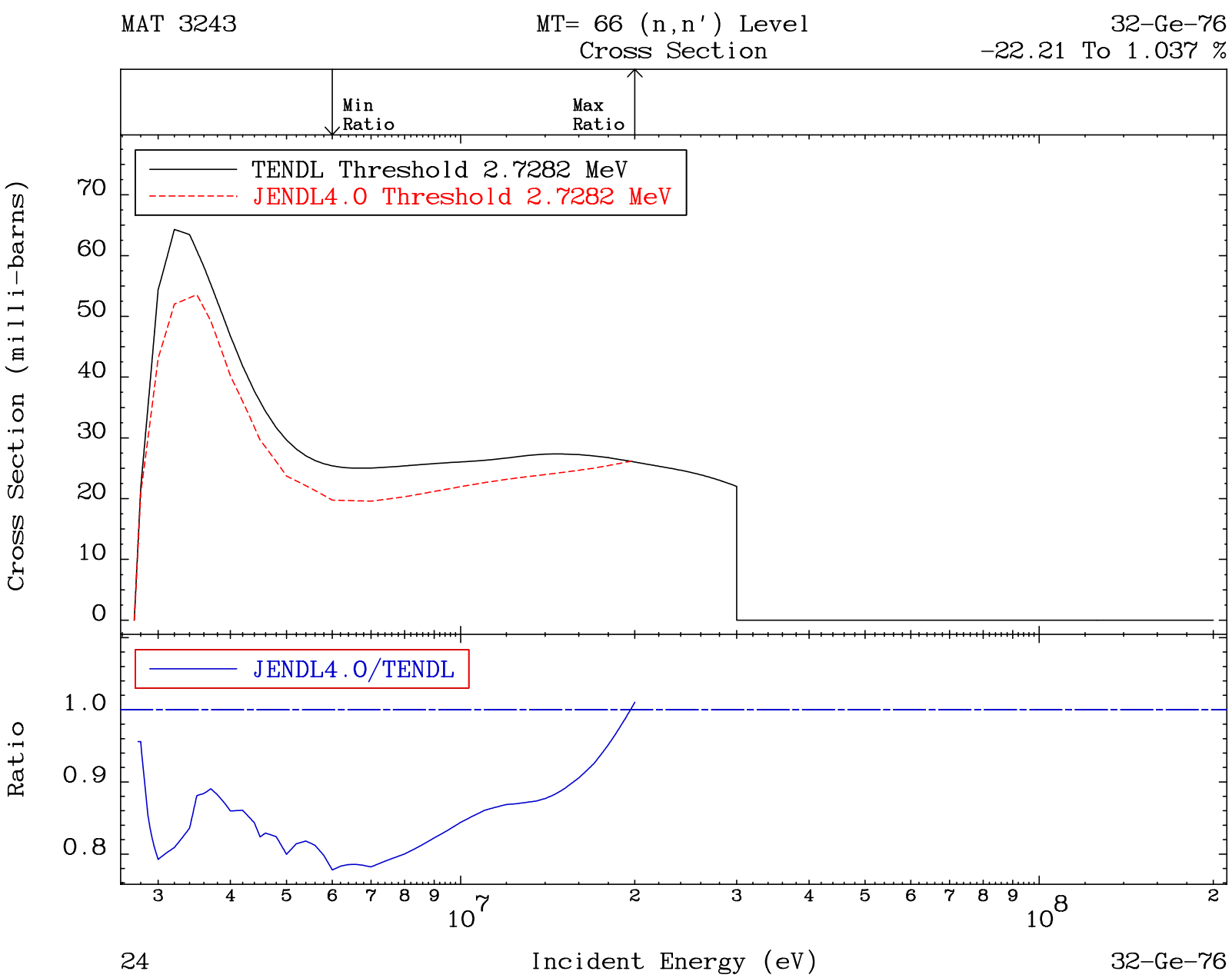

MAT 3243
MT= 61 (n,n') Level
Cross Section
32-Ge-76
-99.82 To 6.947 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.5369 MeV
JENDL4.0 Threshold 2.5369 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
19
Incident Energy (eV)
32-Ge-76

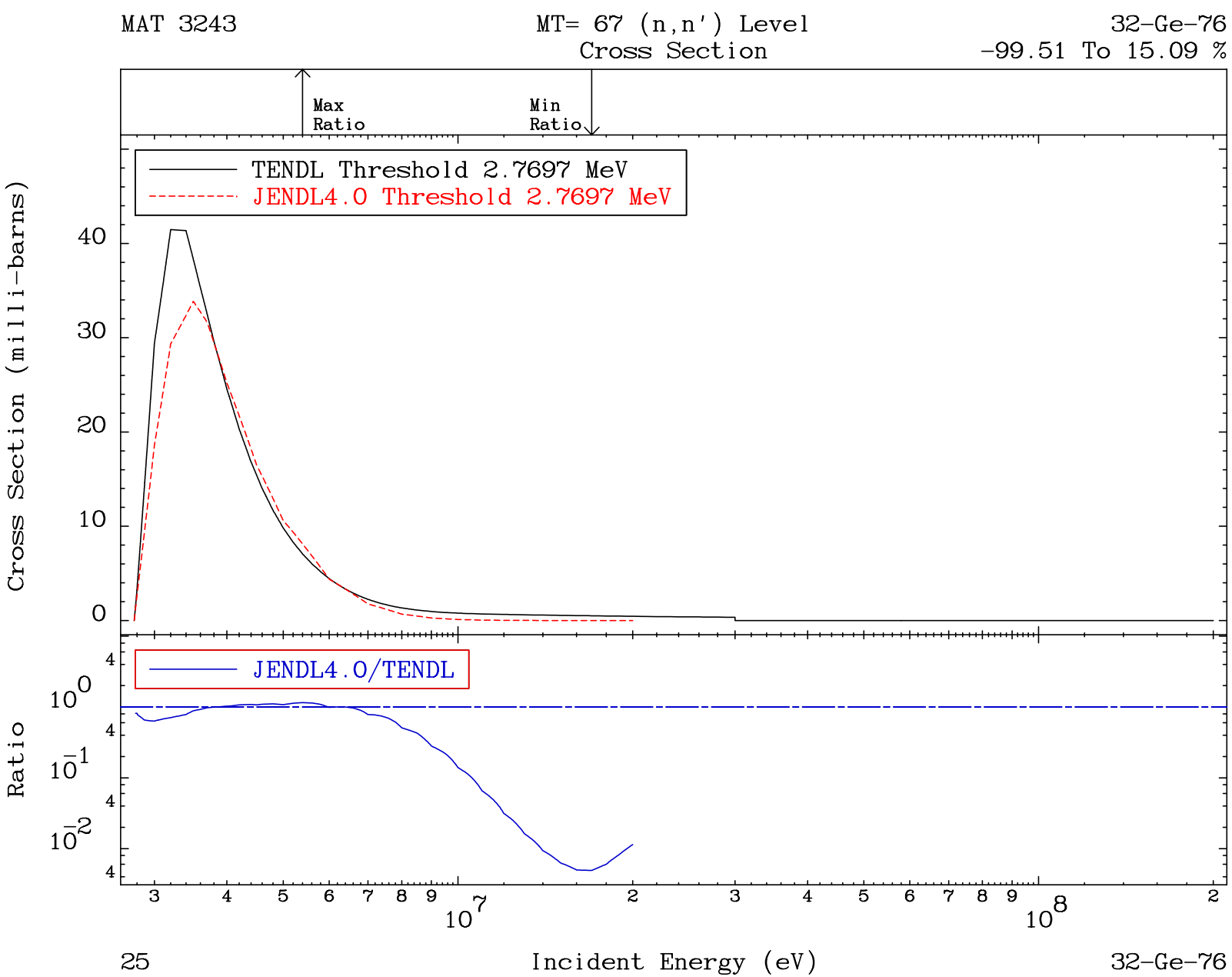

MAT 3243
MT= 62 (n,n') Level
Cross Section
32-Ge-76
-99.66 To 93.63 %
Max Ratio
Min Ratio
TENDL Threshold 2.5879 MeV
JENDL4.0 Threshold 2.5879 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
32-Ge-76

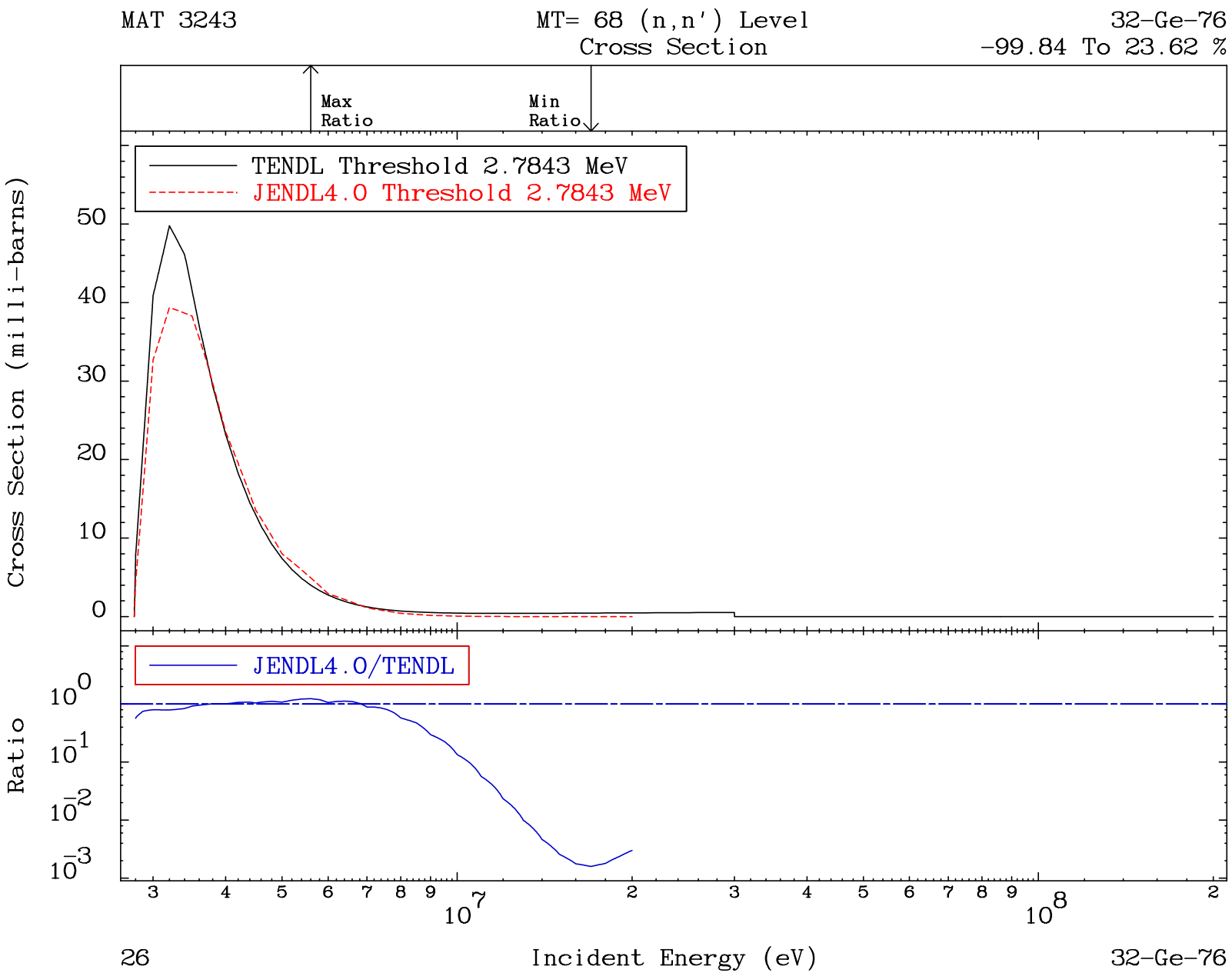

MAT 3243
MT= 63 (n,n') Level
Cross Section
32-Ge-76
-12.10 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.6255 MeV
JENDL4.0 Threshold 2.6255 MeV
Cross Section (milli-barns)
60
40
20
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
21
Incident Energy (eV)
32-Ge-76

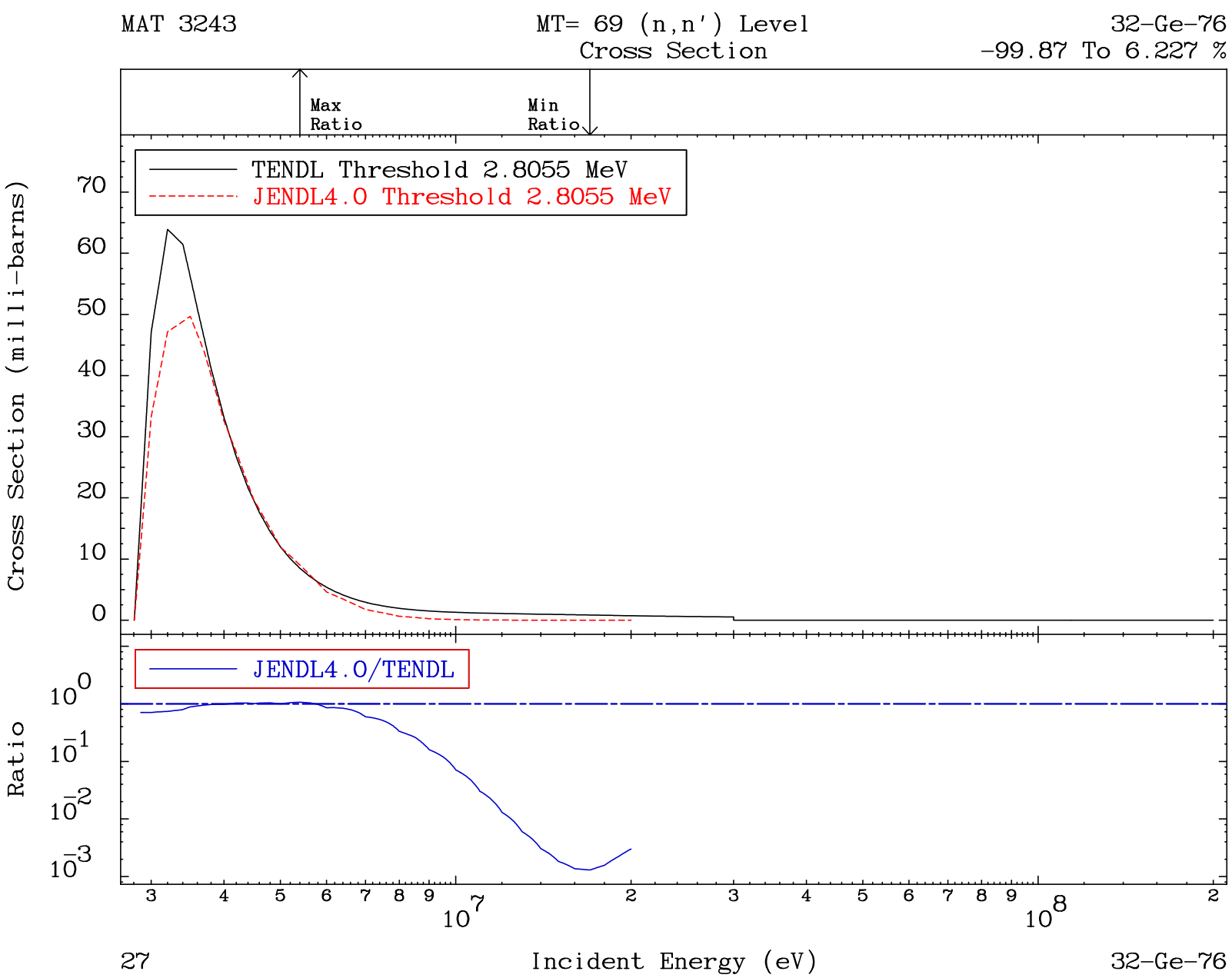

MAT 3243
MT= 64 (n,n') Level
Cross Section
32-Ge-76
-99.66 To 1098. %
Max
Ratio
Min
Ratio
TENDL Threshold 2.6589 MeV
JENDL4.0 Threshold 2.6589 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
22
Incident Energy (eV)
32-Ge-76

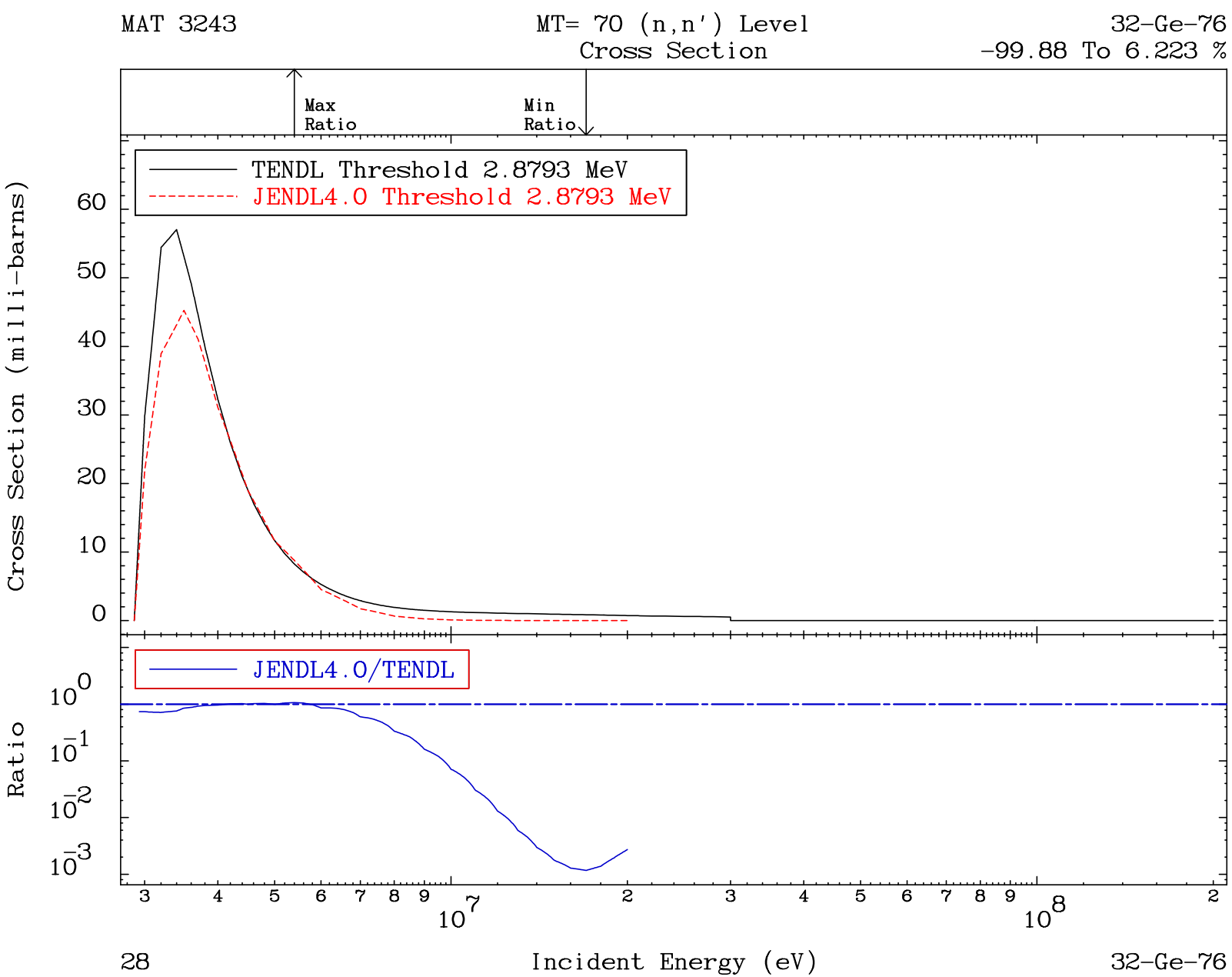

MAT 3243
MT= 65 (n,n') Level
Cross Section
32-Ge-76
-99.74 To 78.60 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.6898 MeV
JENDL4.0 Threshold 2.6898 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
32-Ge-76

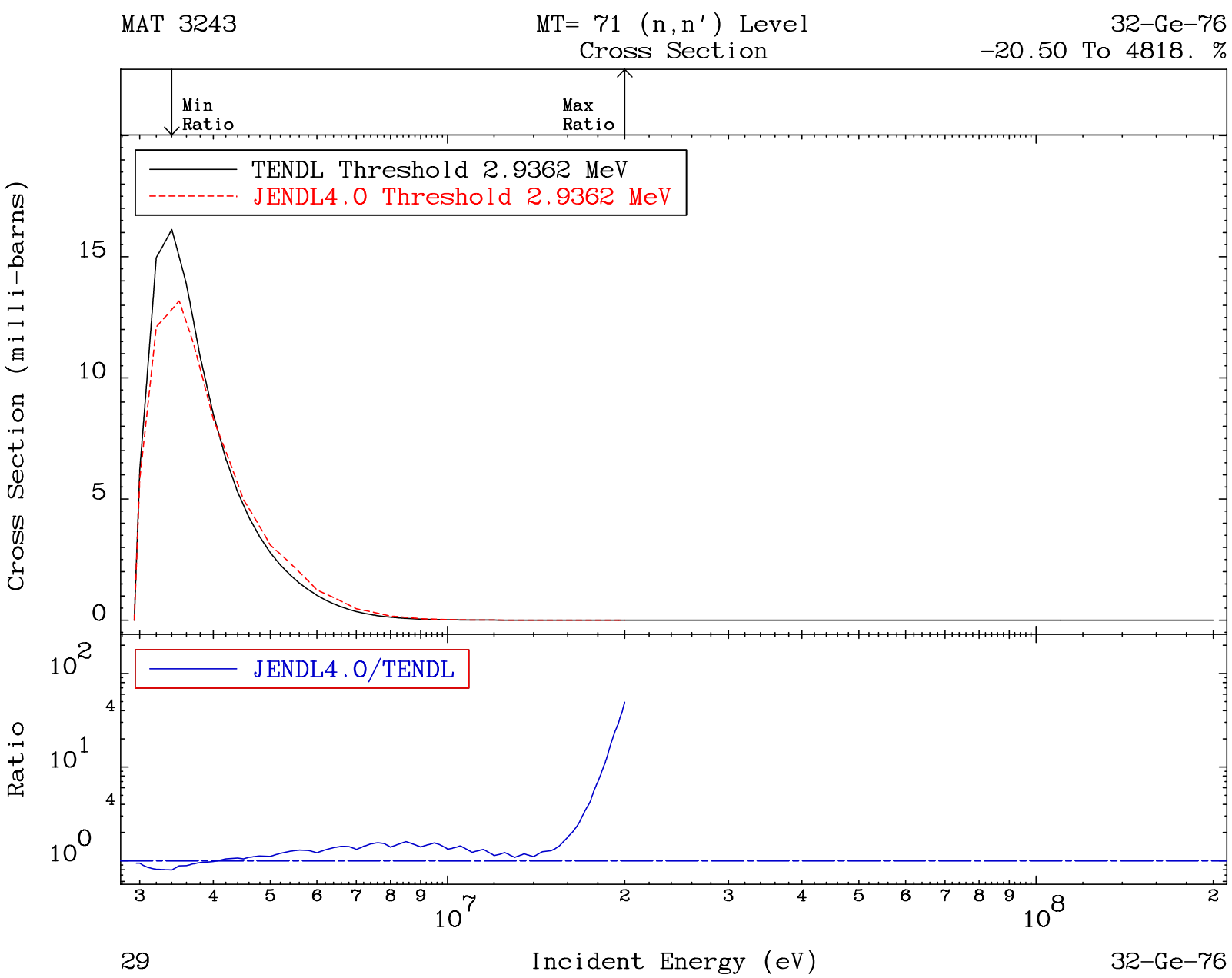

MAT 3243
MT= 66 (n,n') Level
Cross Section
32-Ge-76
-22.21 To 1.037 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.7282 MeV
JENDL4.0 Threshold 2.7282 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
1.0
0.9
0.8
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
32-Ge-76

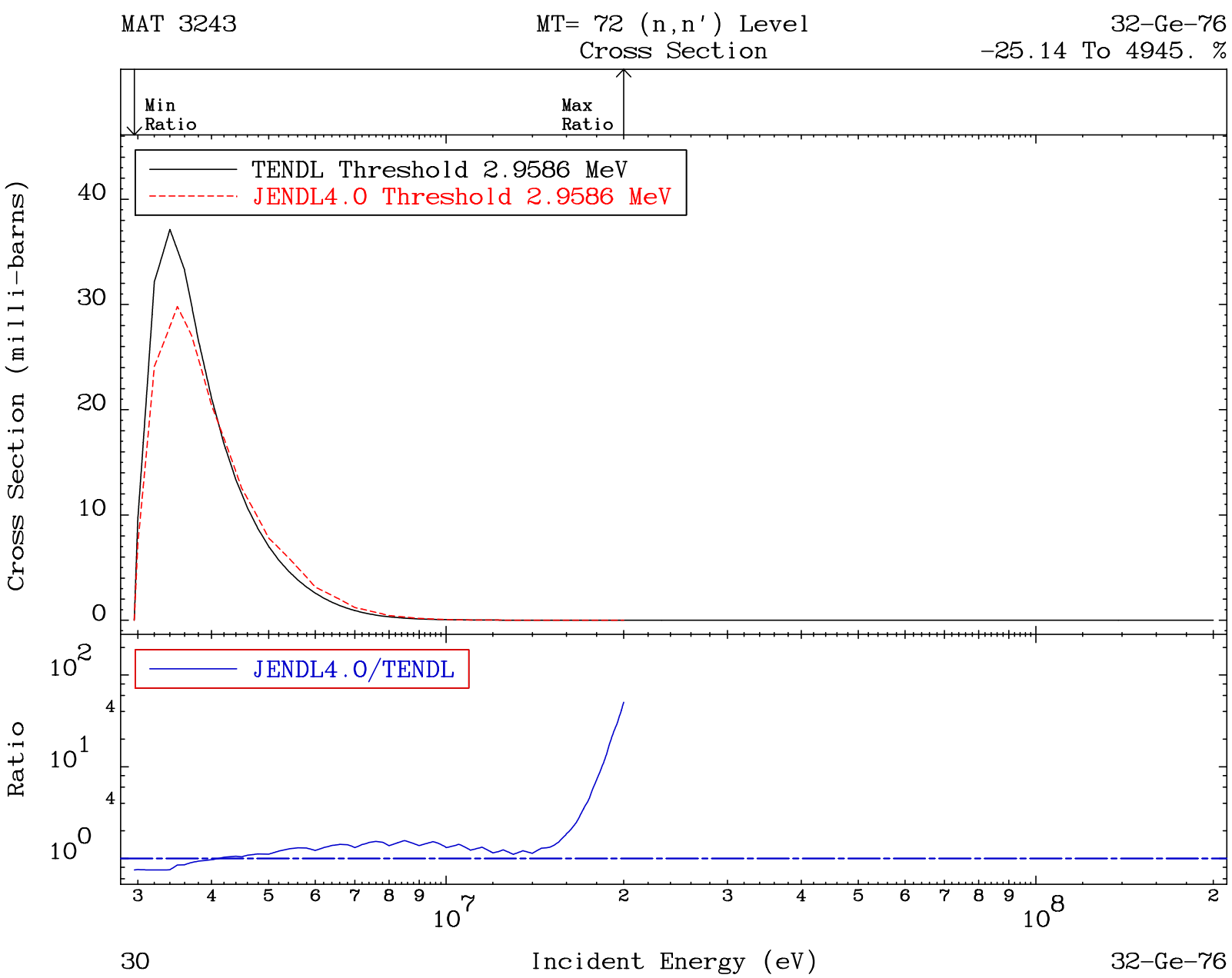

MAT 3243
MT= 67 (n,n') Level
Cross Section
32-Ge-76
-99.51 To 15.09 %
Max Ratio
Min Ratio
TENDL Threshold 2.7697 MeV
JENDL4.0 Threshold 2.7697 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
25
32-Ge-76

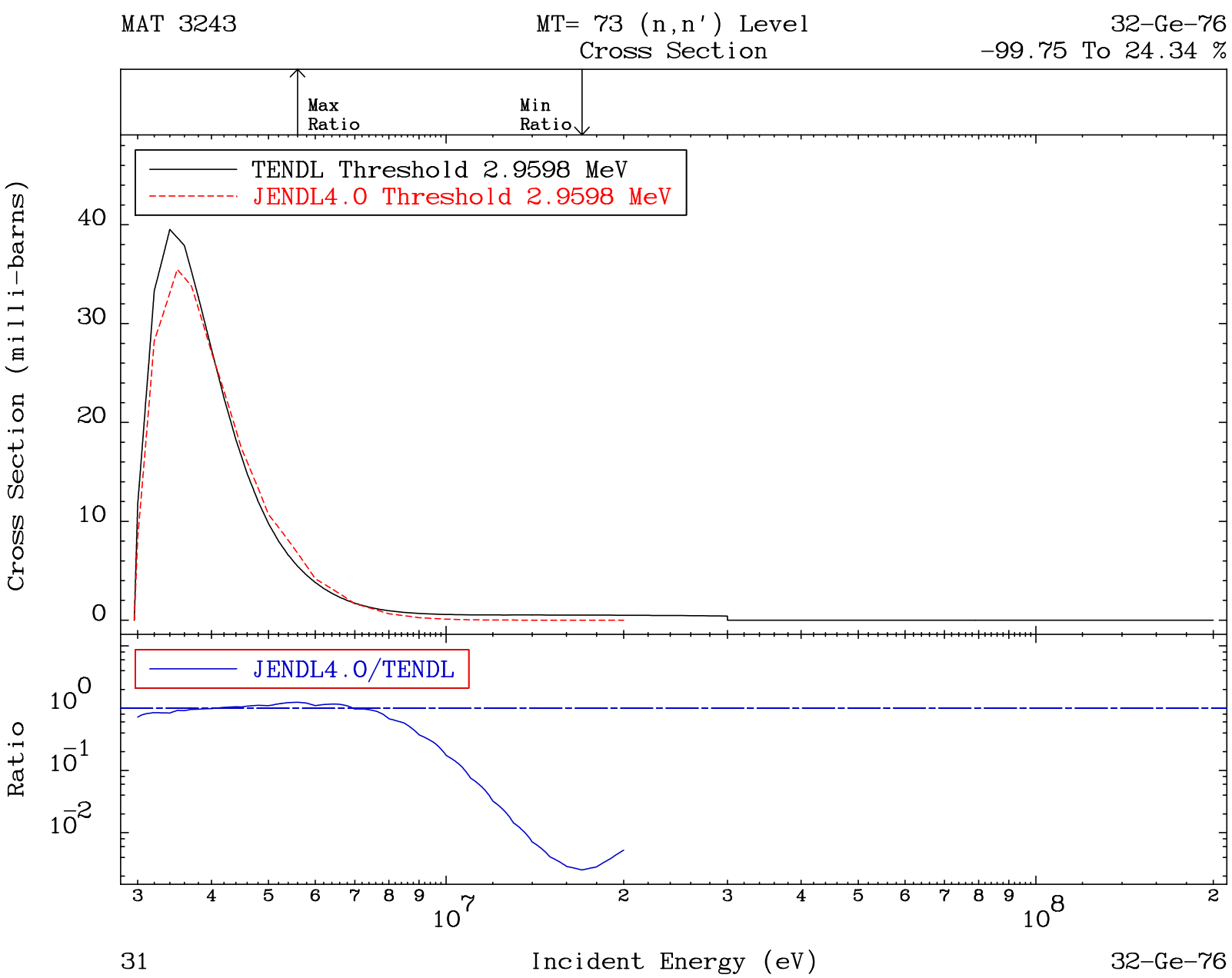

MAT 3243
MT= 68 (n,n') Level
Cross Section
32-Ge-76
-99.84 To 23.62 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.7843 MeV
JENDL4.0 Threshold 2.7843 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
26
Incident Energy (eV)
32-Ge-76

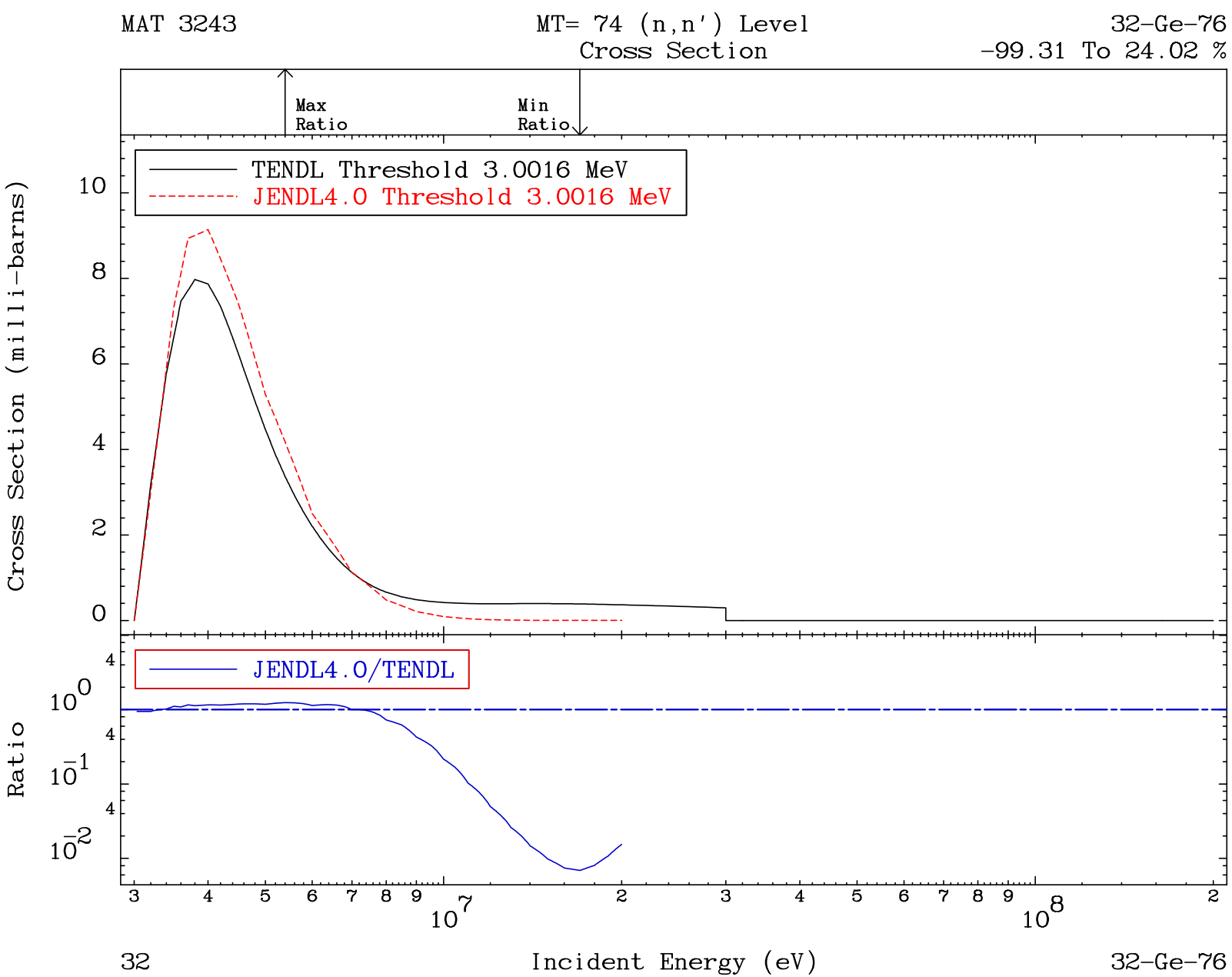

MAT 3243
MT= 69 (n,n') Level
Cross Section
32-Ge-76
-99.87 To 6.227 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.8055 MeV
JENDL4.0 Threshold 2.8055 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
32-Ge-76

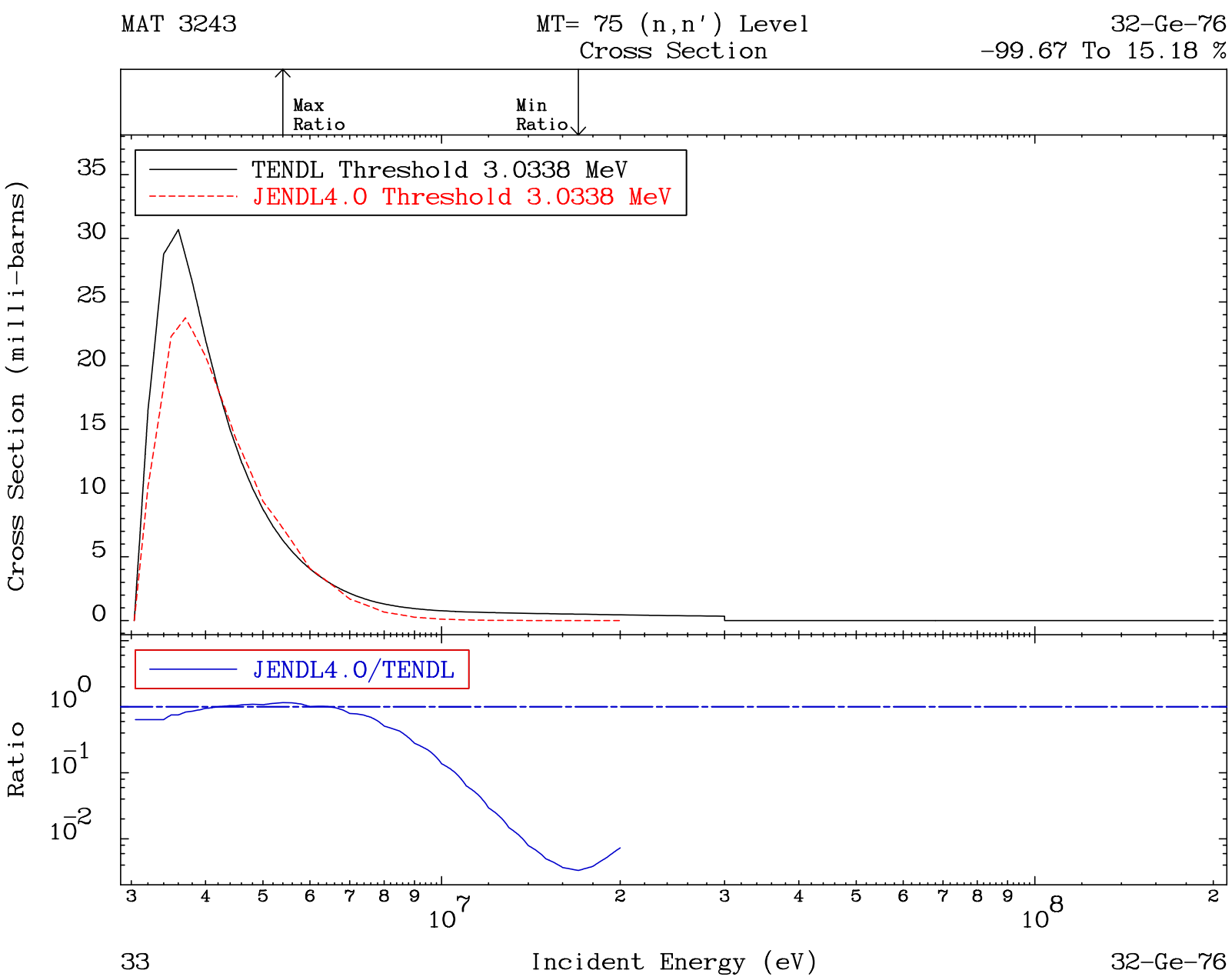

MAT 3243
MT= 70 (n,n') Level
Cross Section
32-Ge-76
-99.88 To 6.223 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.8793 MeV
JENDL4.0 Threshold 2.8793 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
32-Ge-76

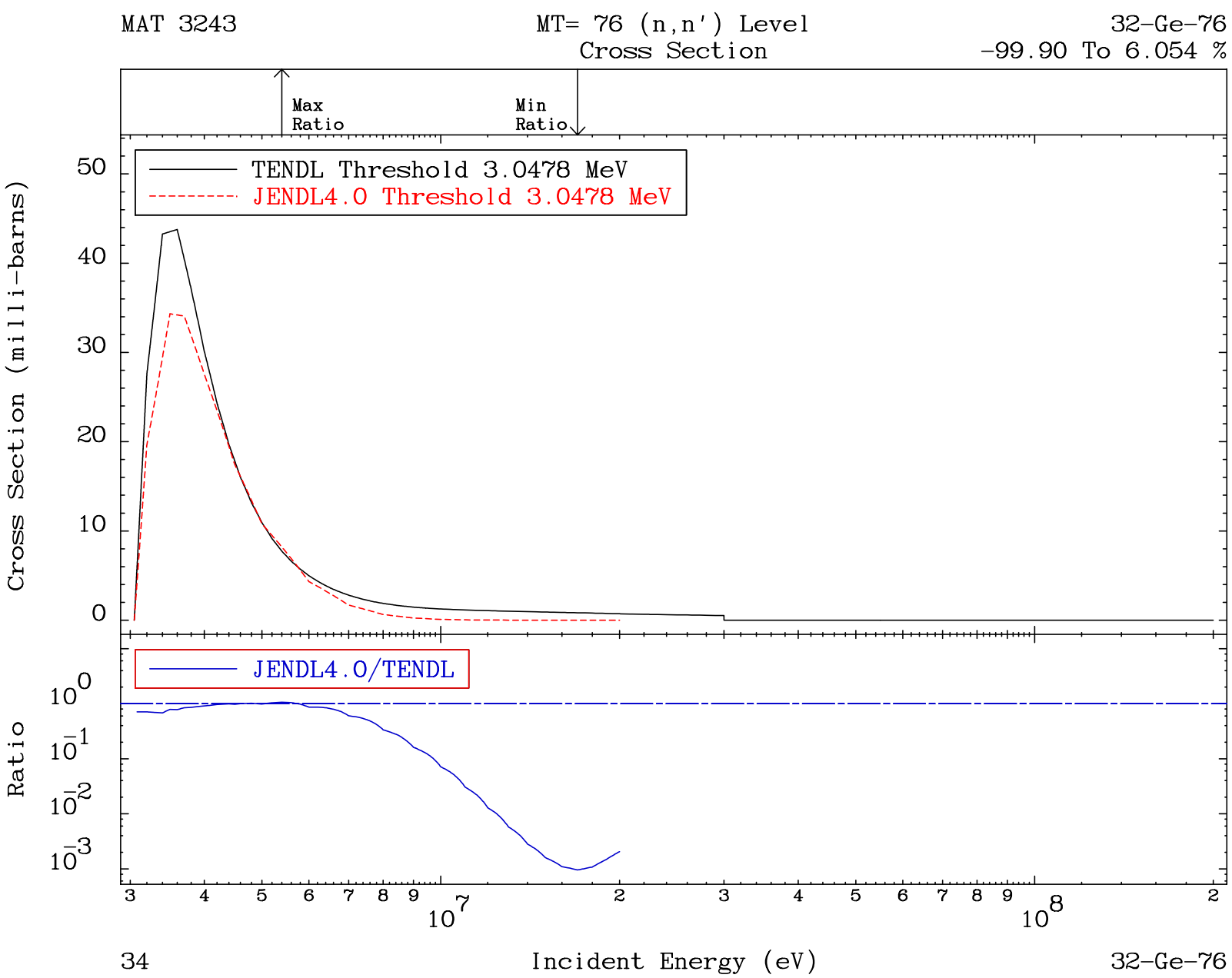

MAT 3243
MT= 71 (n,n') Level
Cross Section
32-Ge-76
-20.50 To 4818. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9362 MeV
JENDL4.0 Threshold 2.9362 MeV
Cross Section (milli-barns)
15
10
5
0
JENDL4.0/TENDL
Ratio
10^2
10^1
10^0
4
4
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
32-Ge-76

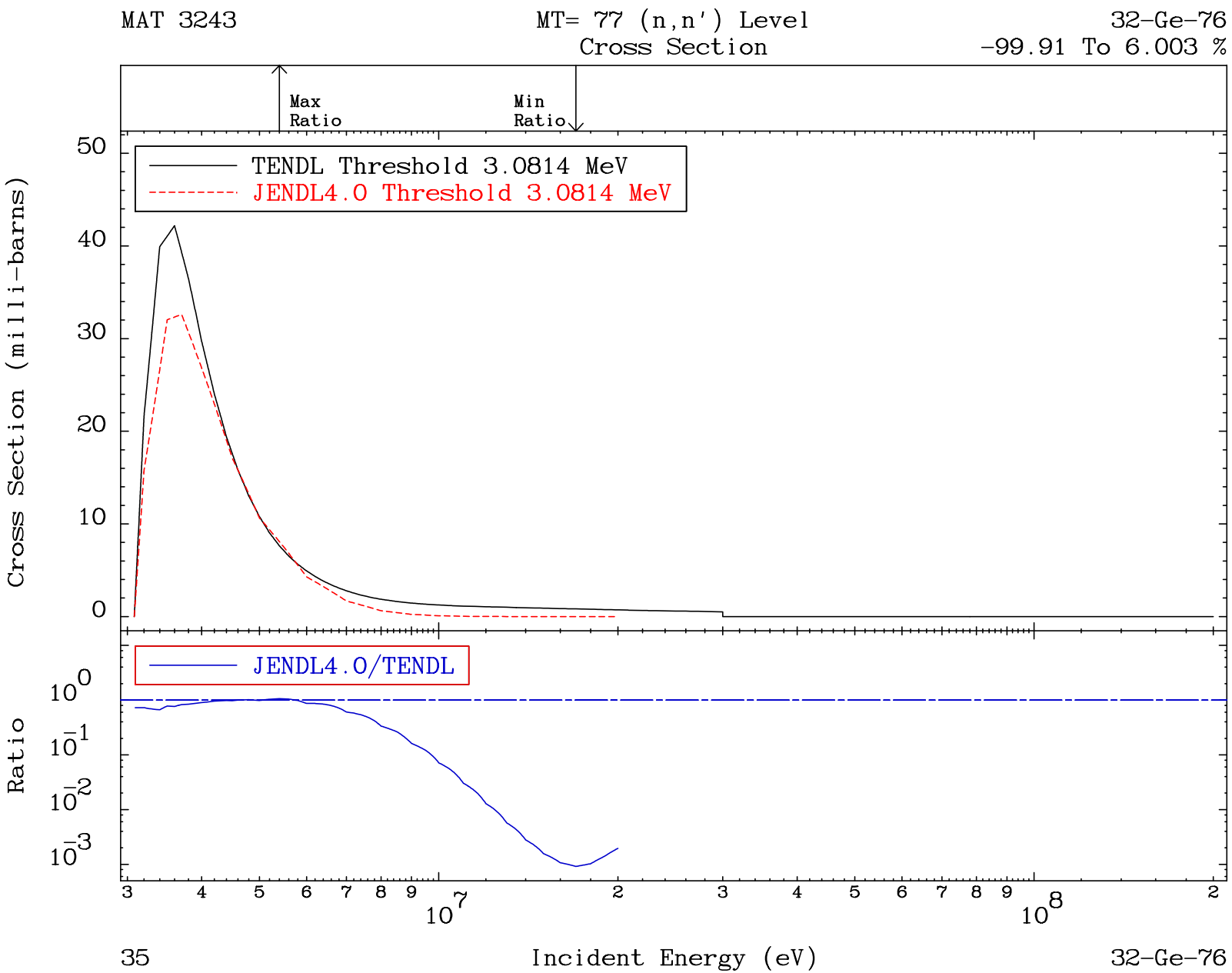

MAT 3243
MT= 72 (n,n') Level
Cross Section
32-Ge-76
-25.14 To 4945. %
Min
Ratio
Max
Ratio
TENDL Threshold 2.9586 MeV
JENDL4.0 Threshold 2.9586 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^2
4
10^1
4
10^0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
32-Ge-76

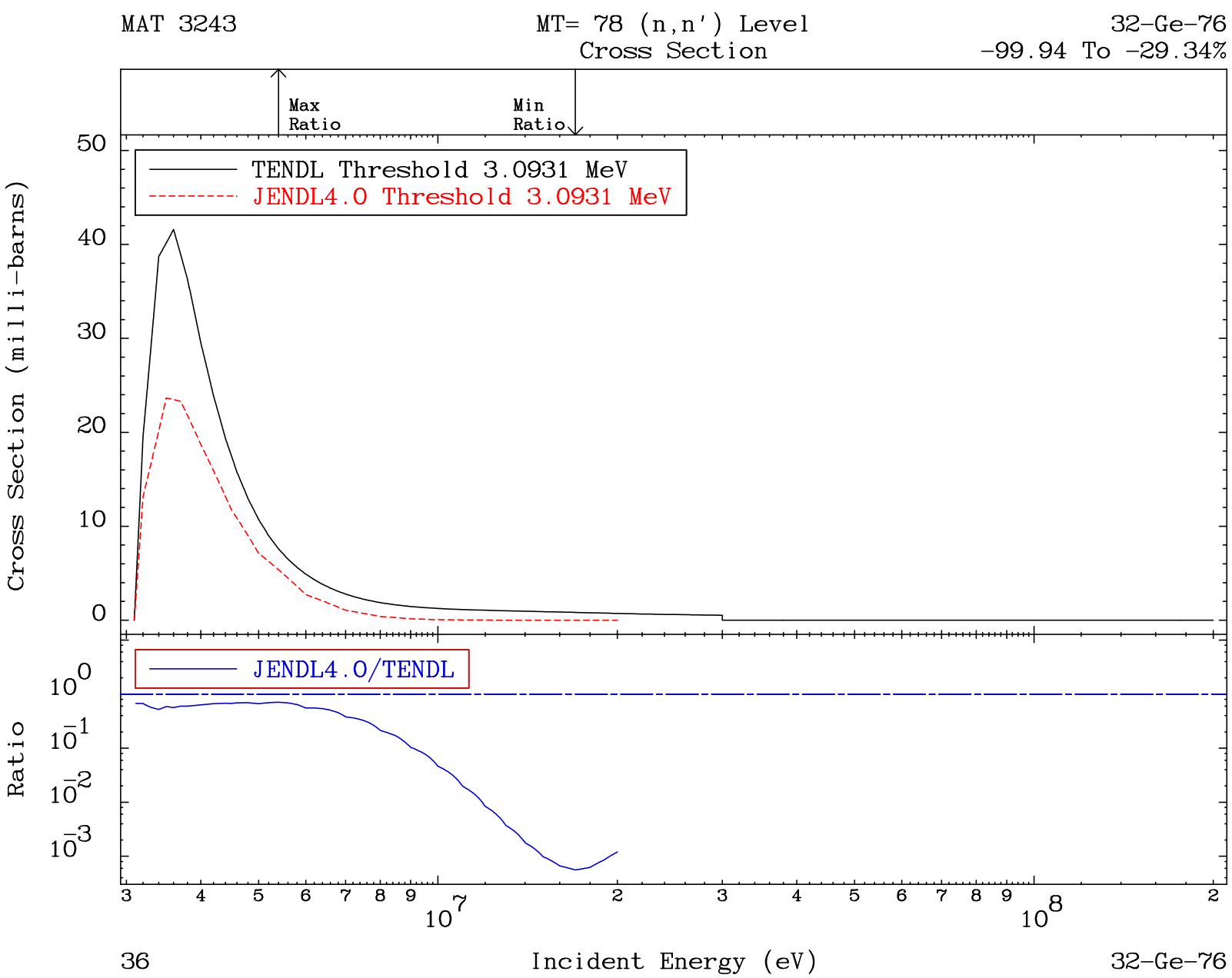

MAT 3243
MT= 73 (n,n') Level
Cross Section
32-Ge-76
-99.75 To 24.34 %
Max
Ratio
Min
Ratio
TENDL Threshold 2.9598 MeV
JENDL4.0 Threshold 2.9598 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
31
Incident Energy (eV)
32-Ge-76

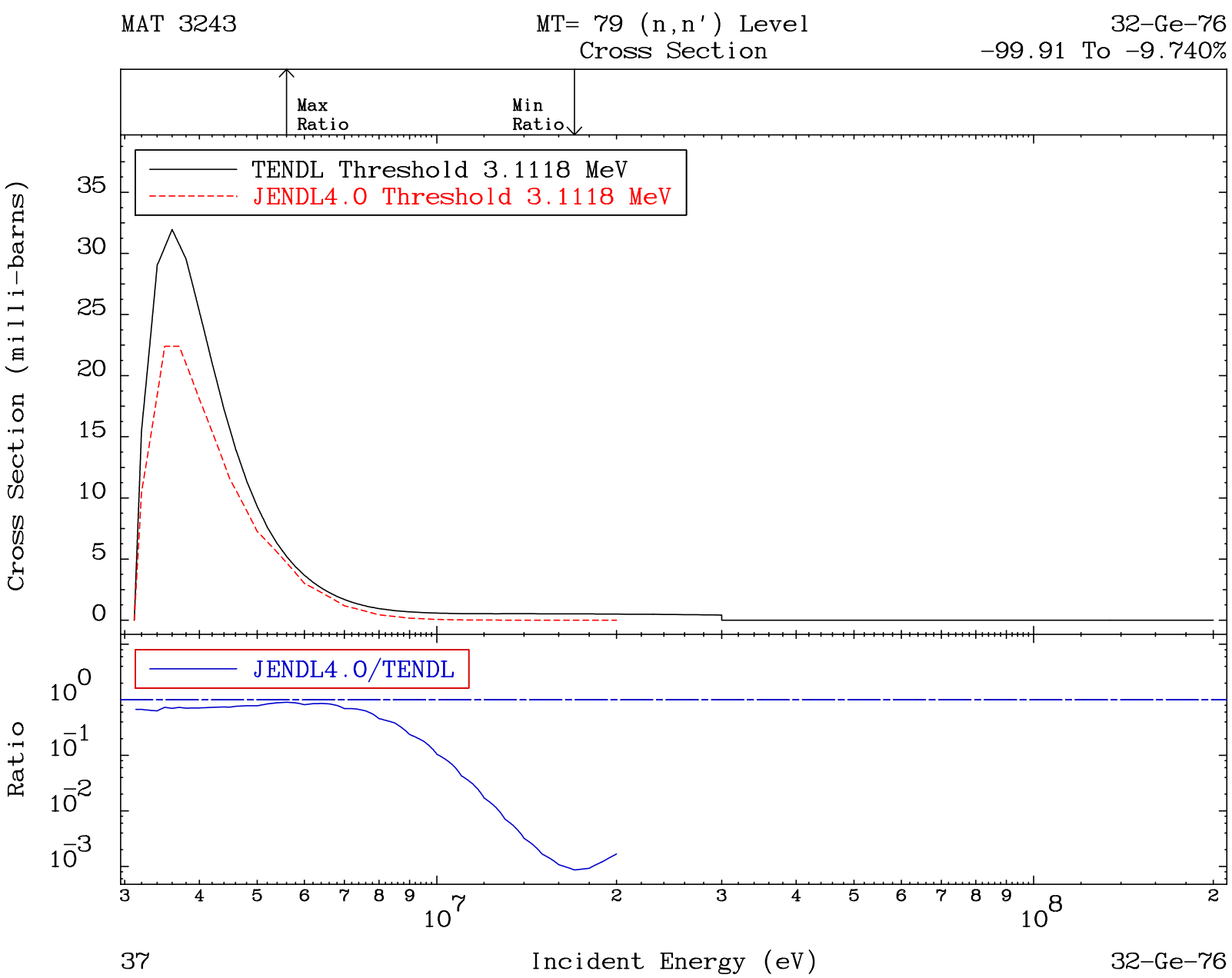

MAT 3243
MT= 74 (n,n') Level
Cross Section
32-Ge-76
-99.31 To 24.02 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0016 MeV
JENDL4.0 Threshold 3.0016 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
32-Ge-76

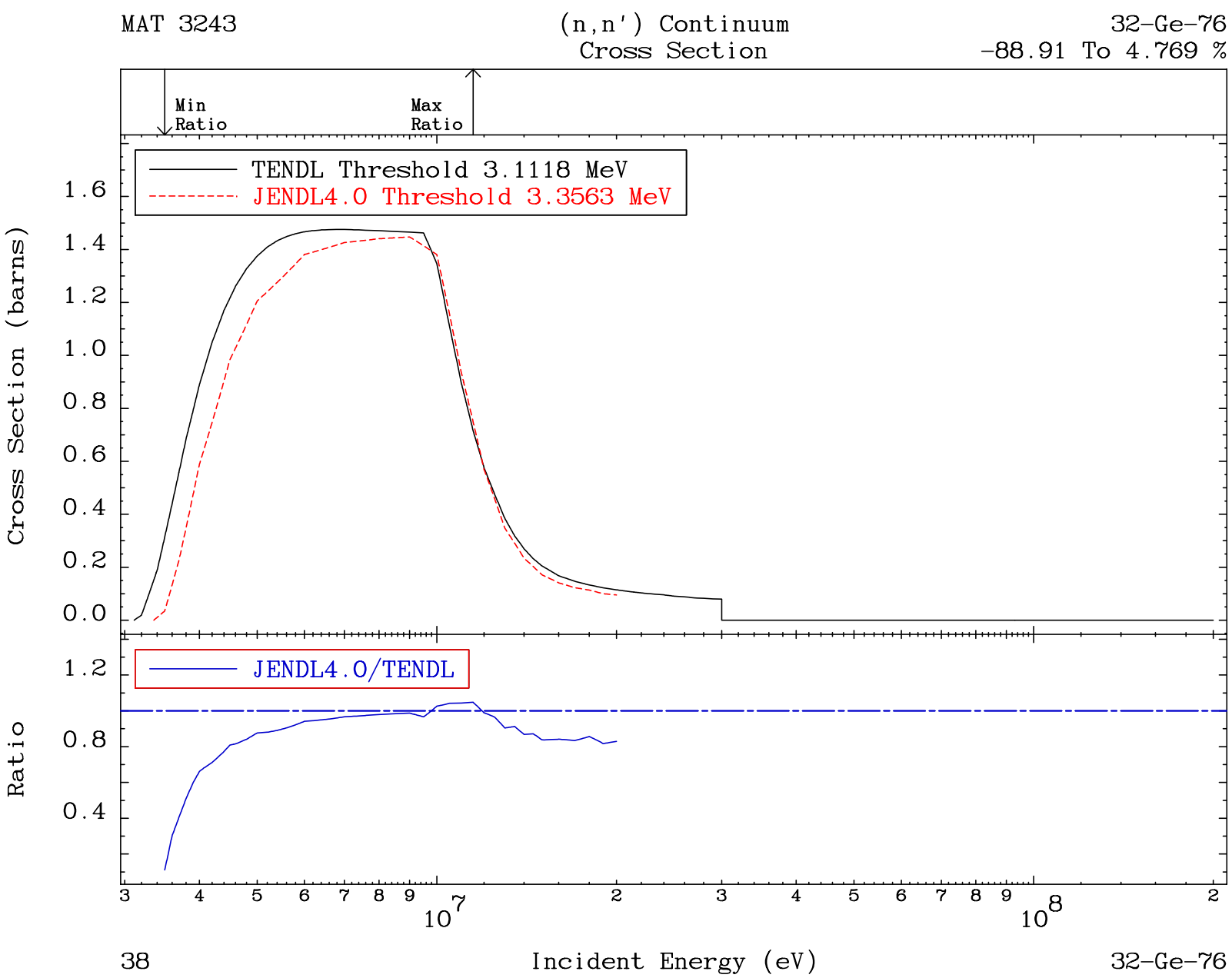

MAT 3243
MT= 75 (n,n') Level
Cross Section
32-Ge-76
-99.67 To 15.18 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0338 MeV
JENDL4.0 Threshold 3.0338 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
32-Ge-76

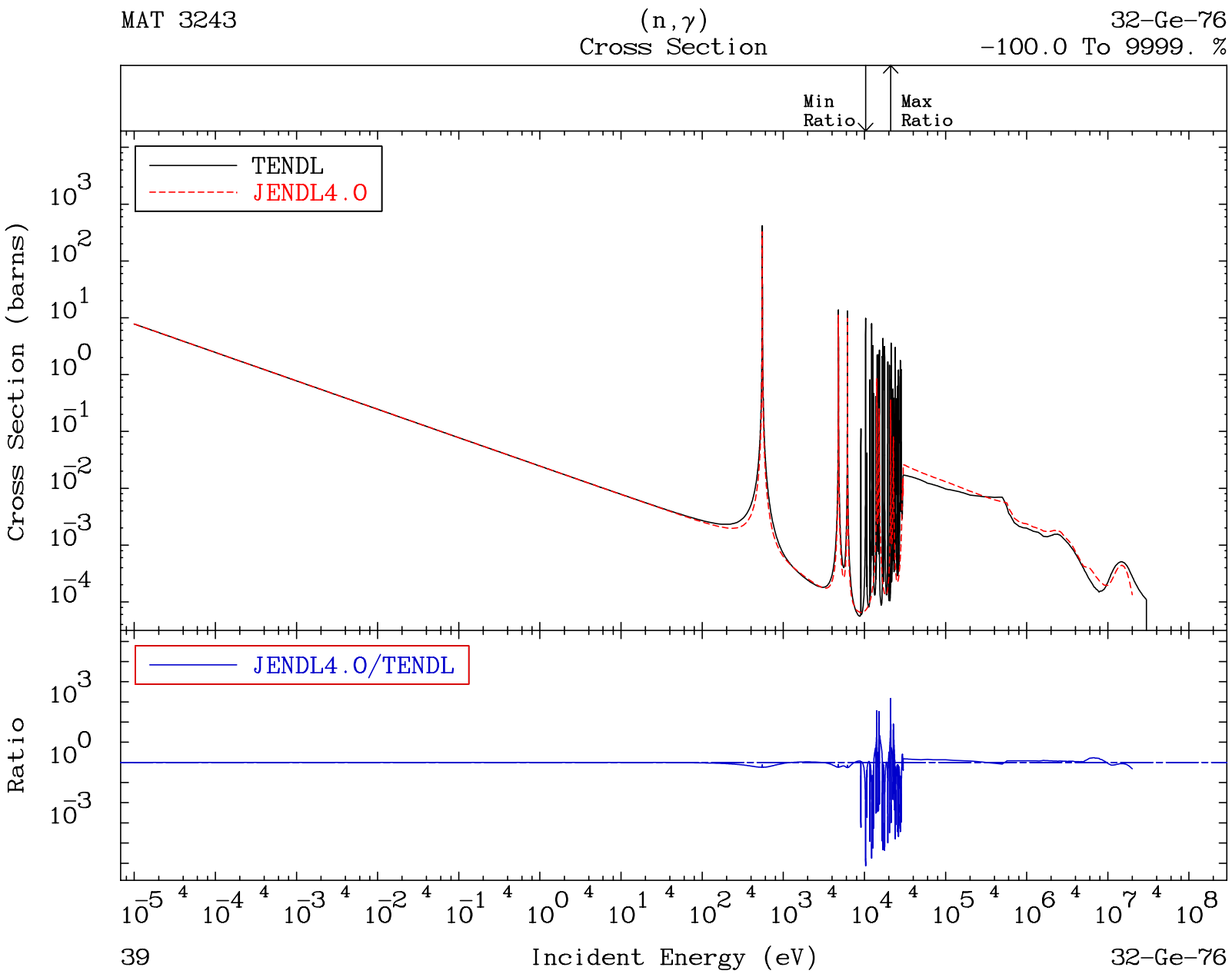

MAT 3243
MT= 76 (n,n') Level
Cross Section
32-Ge-76
-99.90 To 6.054 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0478 MeV
JENDL4.0 Threshold 3.0478 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
32-Ge-76

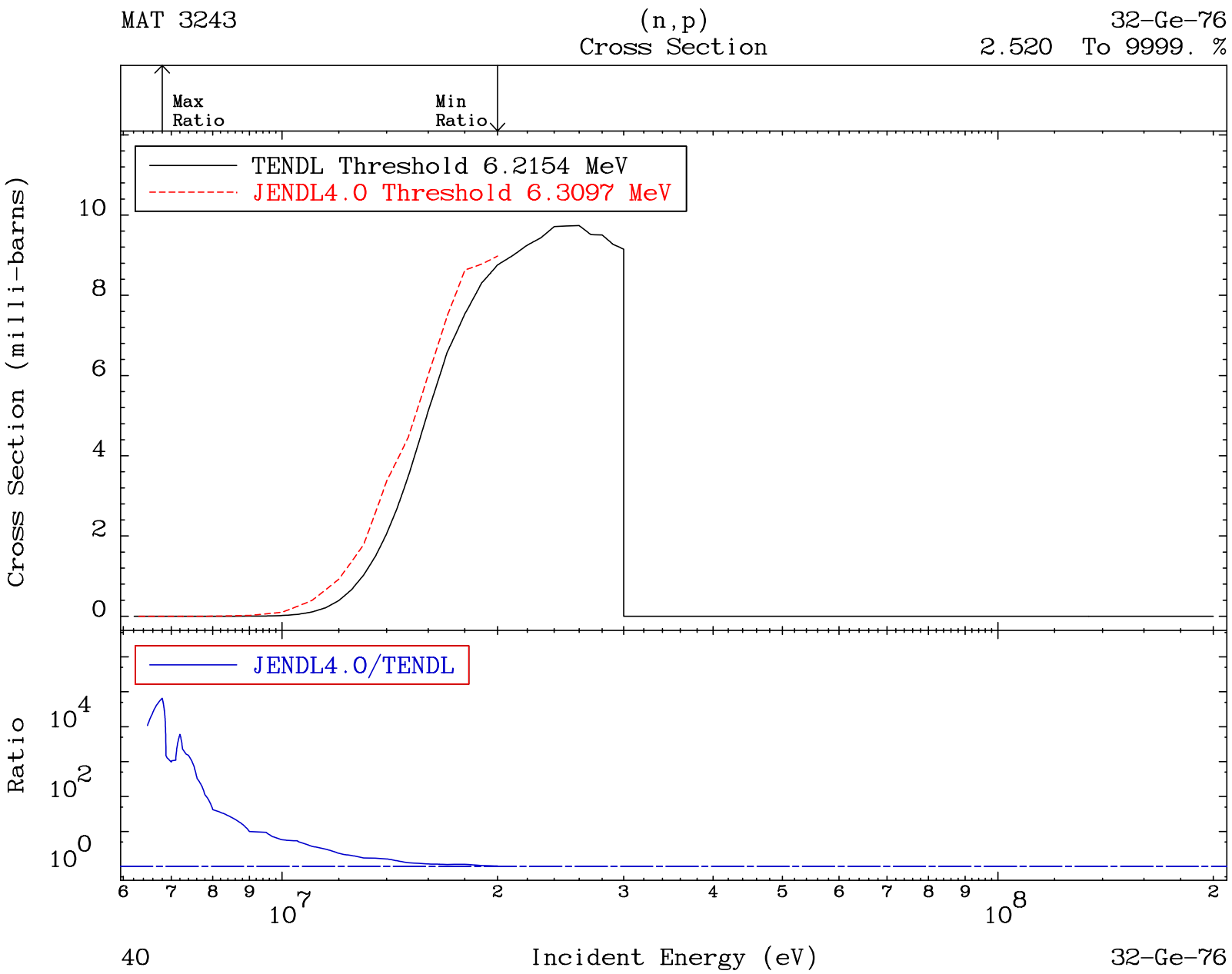

MAT 3243
MT= 77 (n,n') Level
Cross Section
32-Ge-76
-99.91 To 6.003 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.0814 MeV
JENDL4.0 Threshold 3.0814 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
35
Incident Energy (eV)
32-Ge-76

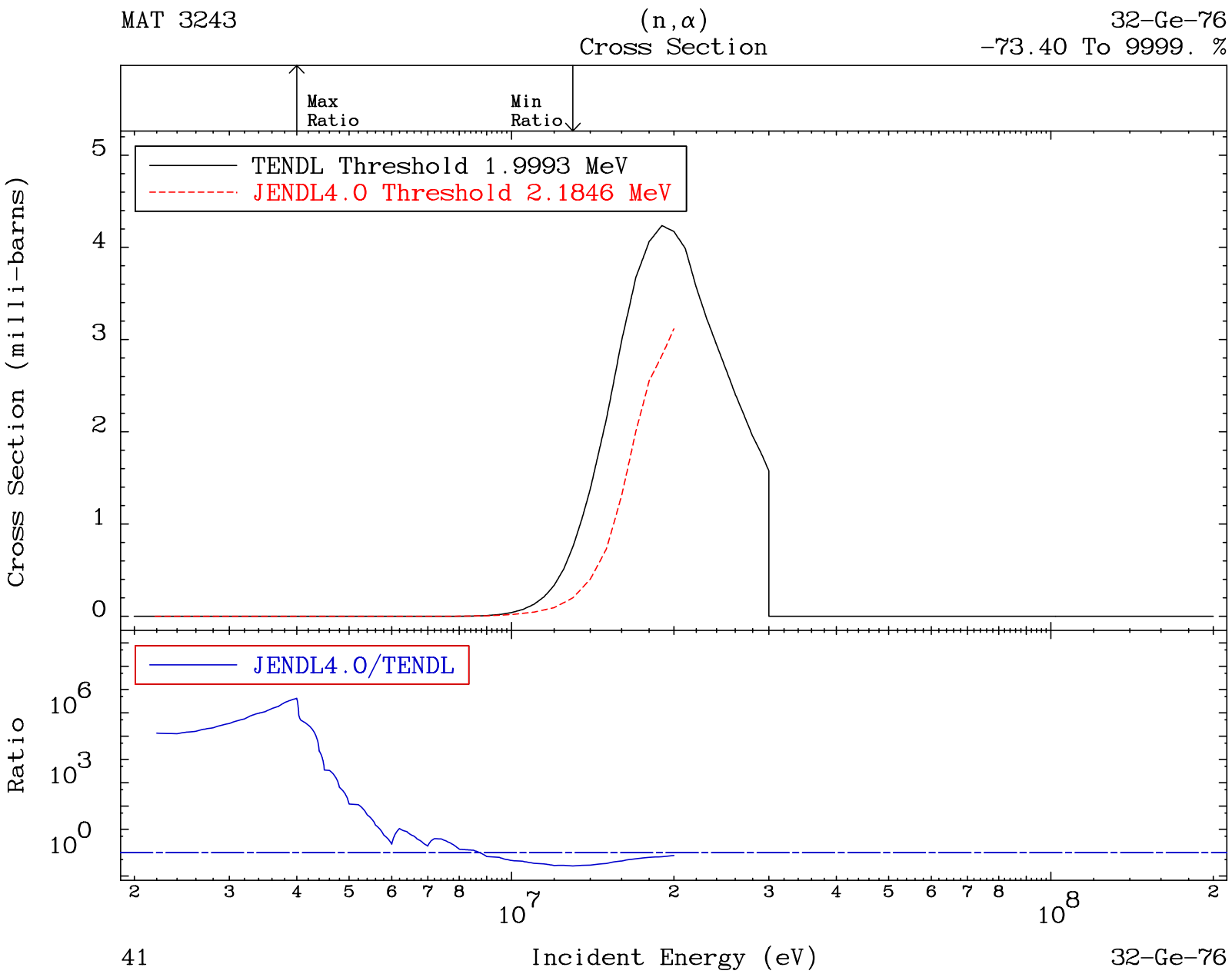

MAT 3243
MT= 78 (n,n') Level
Cross Section
32-Ge-76
-99.94 To -29.34%
Max
Ratio
Min
Ratio
TENDL Threshold 3.0931 MeV
JENDL4.0 Threshold 3.0931 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
36
Incident Energy (eV)
32-Ge-76

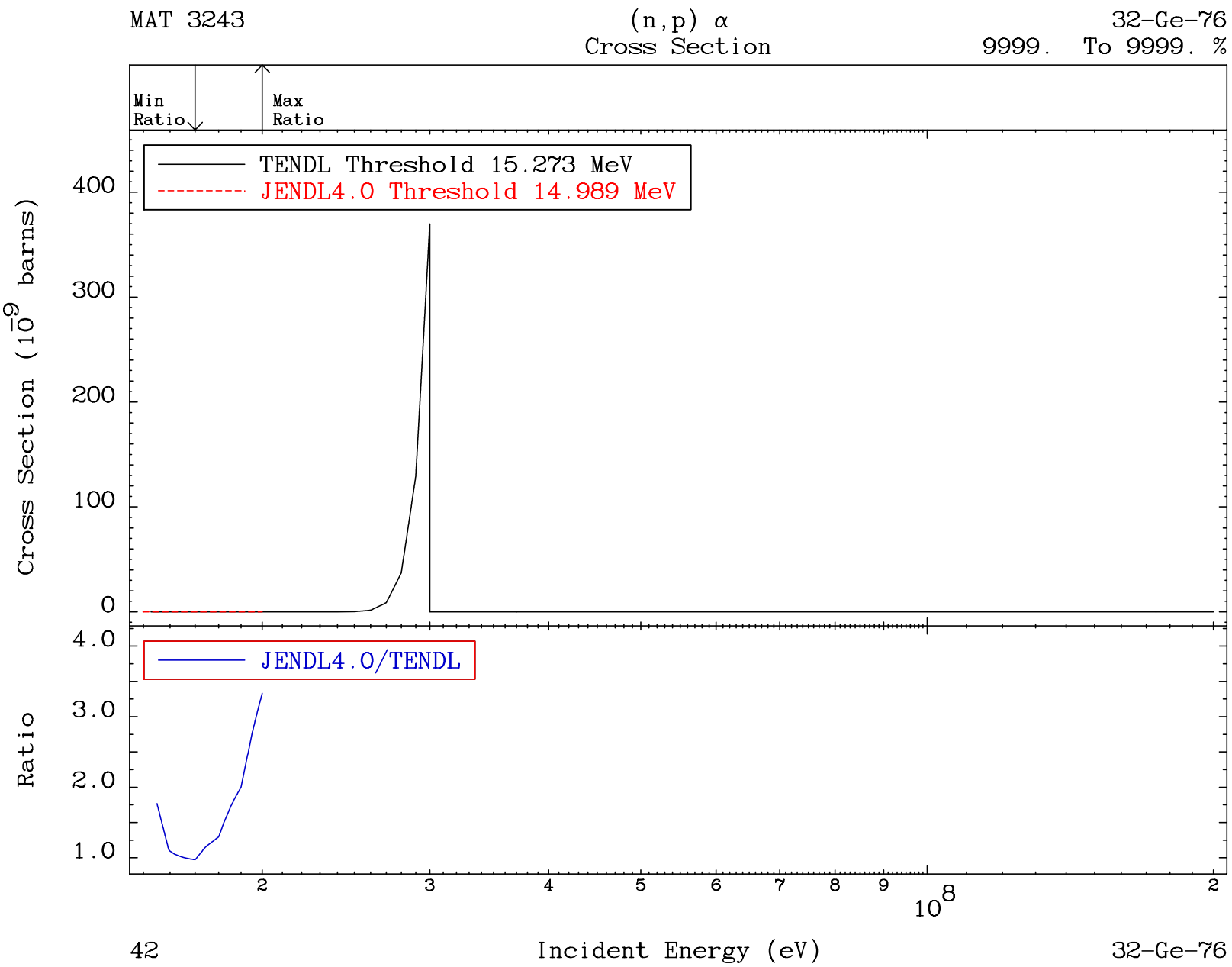

MAT 3243
MT= 79 (n,n') Level
Cross Section
32-Ge-76
-99.91 To -9.740%
Max
Ratio
Min
Ratio
TENDL Threshold 3.1118 MeV
JENDL4.0 Threshold 3.1118 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^-3
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
32-Ge-76

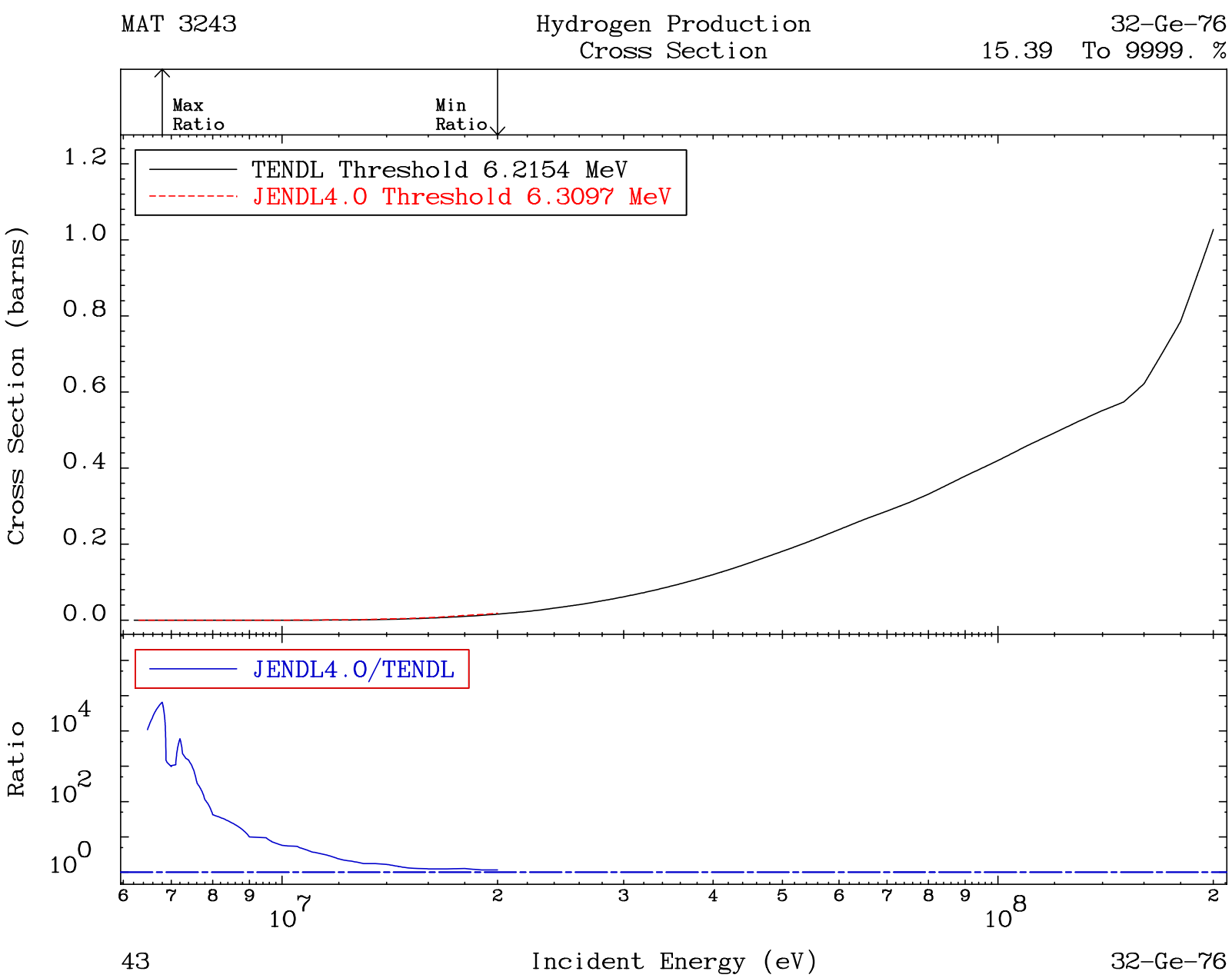

MAT 3243
(n,n') Continuum
Cross Section
32-Ge-76
-88.91 To 4.769 %
Min Ratio
Max Ratio
TENDL Threshold 3.1118 MeV
JENDL4.0 Threshold 3.3563 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
32-Ge-76

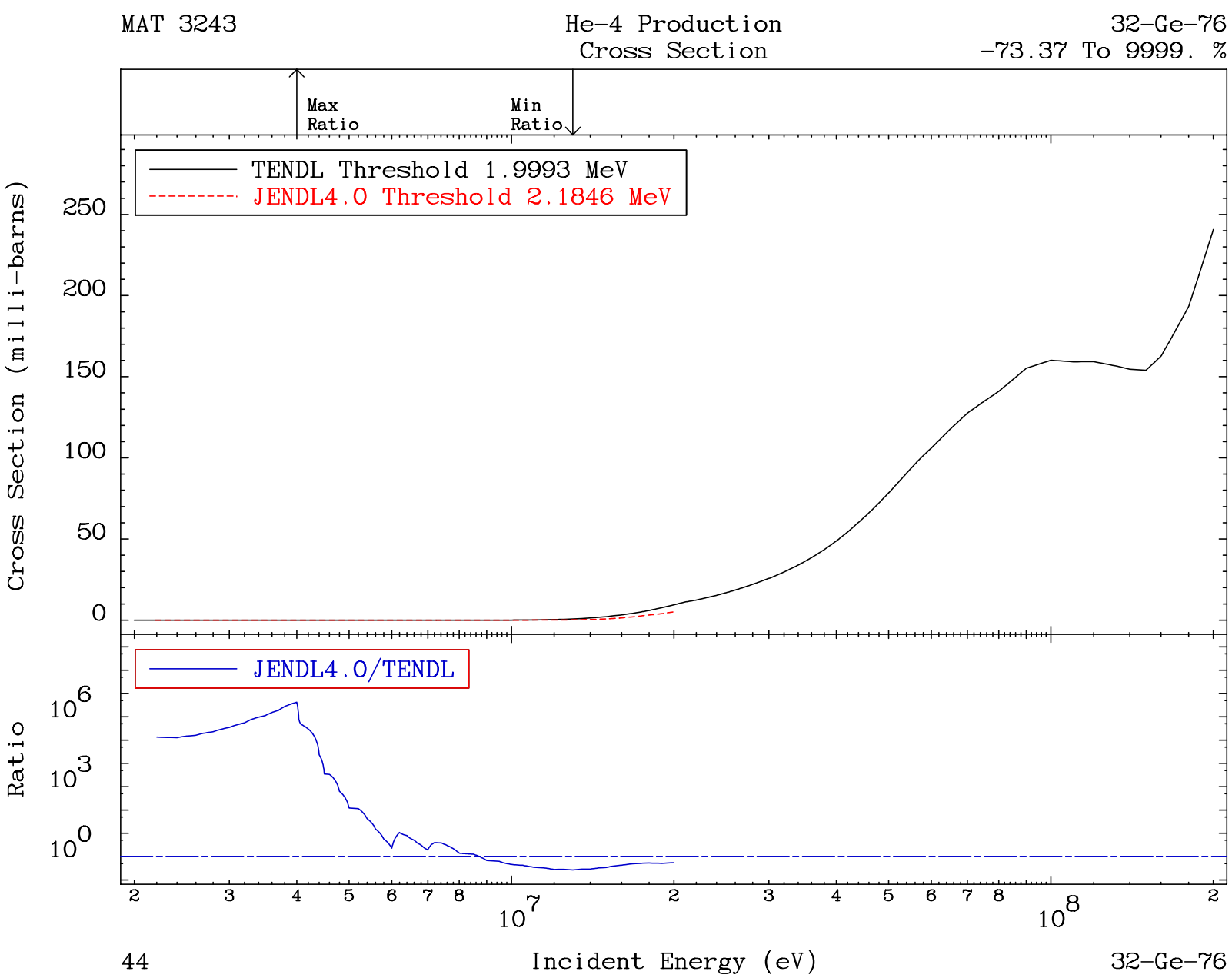

MAT 3243
(n,γ)
Cross Section
32-Ge-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
39
32-Ge-76

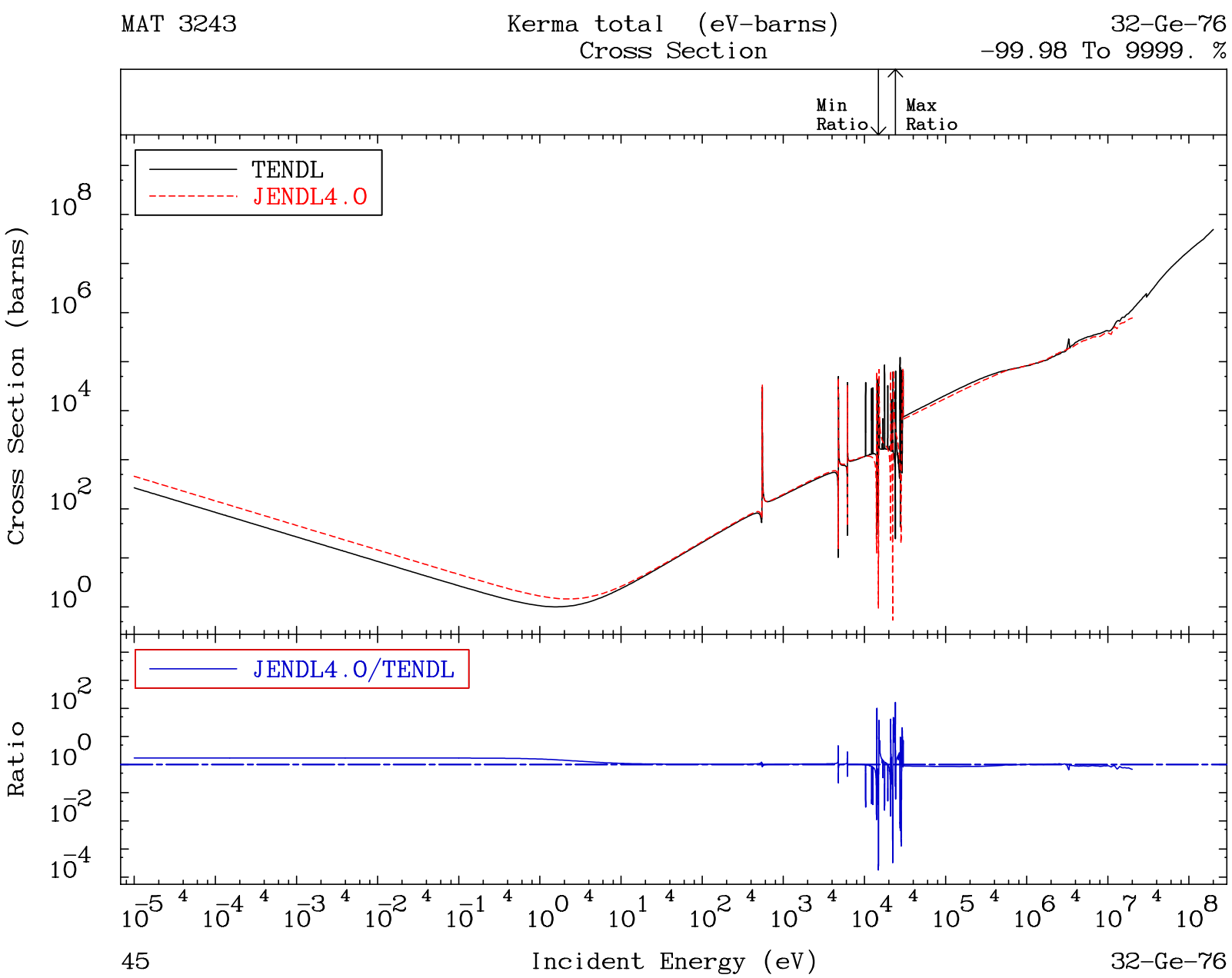

MAT 3243
(n,p)
Cross Section
32-Ge-76
2.520 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2154 MeV
JENDL4.0 Threshold 6.3097 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
40
32-Ge-76

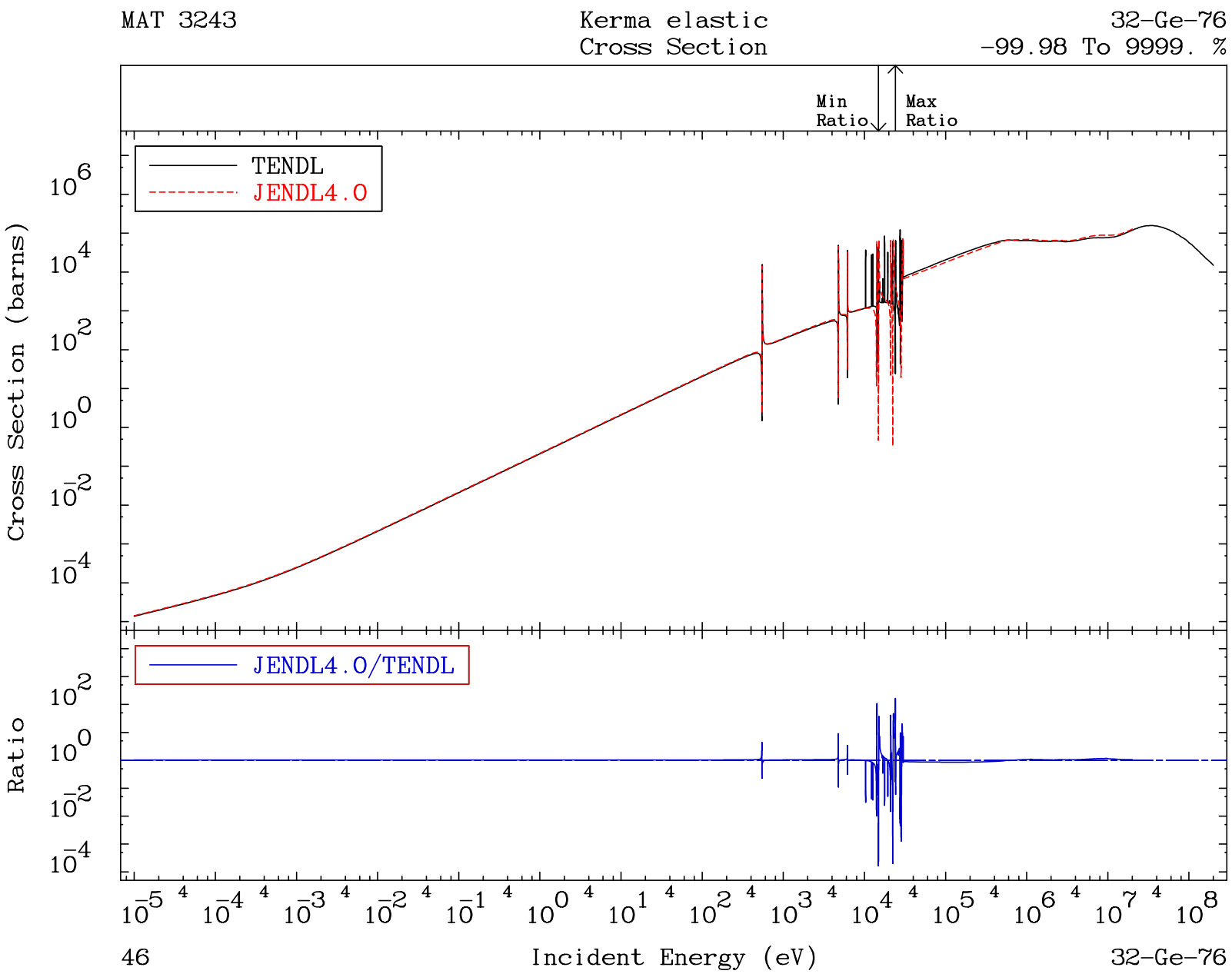

MAT 3243
(n,α)
Cross Section
32-Ge-76
-73.40 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9993 MeV
JENDL4.0 Threshold 2.1846 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
41
32-Ge-76

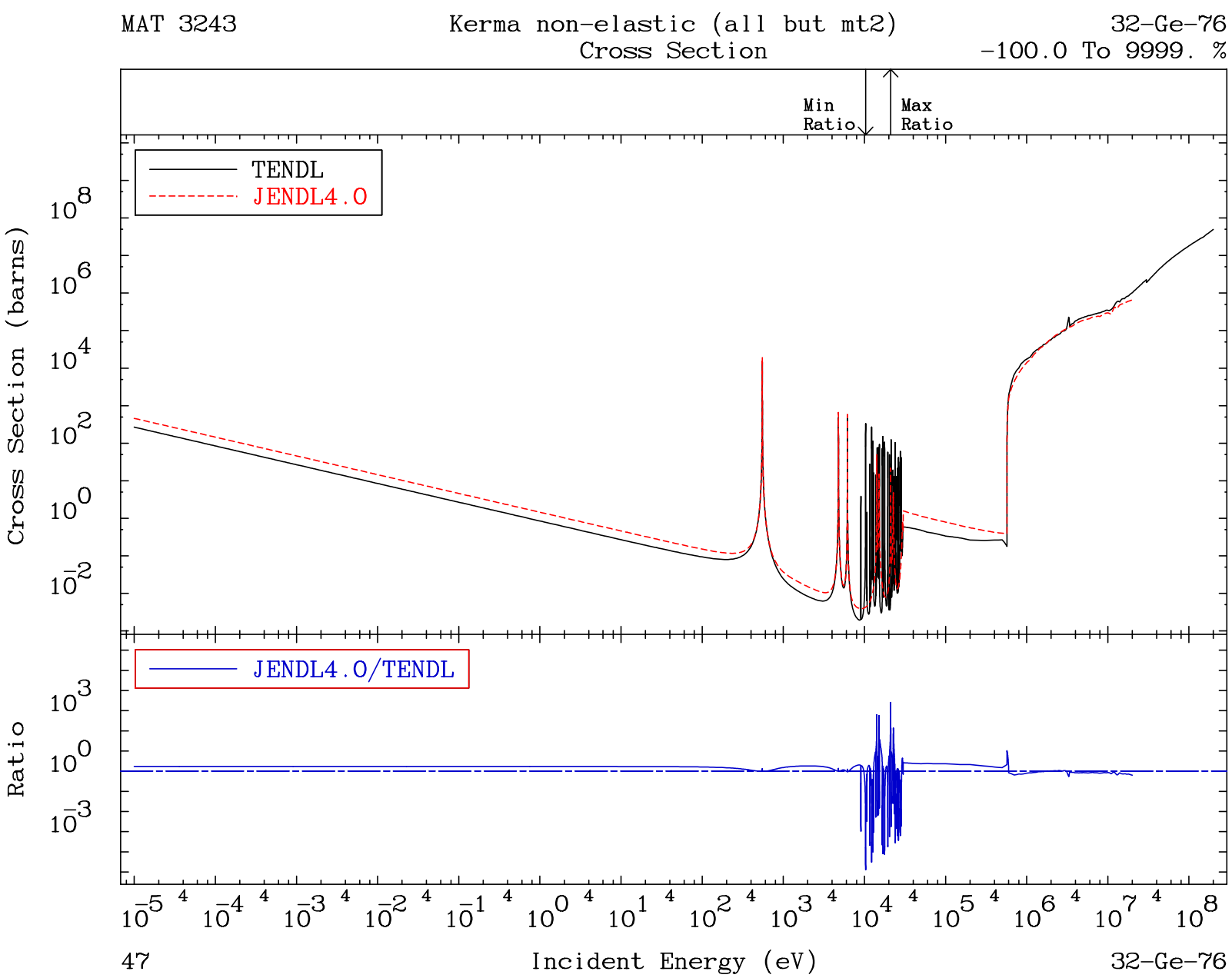

MAT 3243
(n,p) α
Cross Section
32-Ge-76
9999. To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 15.273 MeV
JENDL4.0 Threshold 14.989 MeV
Cross Section (10^{-9} barns)
400
300
200
100
0
JENDL4.0/TENDL
Ratio
4.0
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^{8}
2
42
Incident Energy (eV)
32-Ge-76

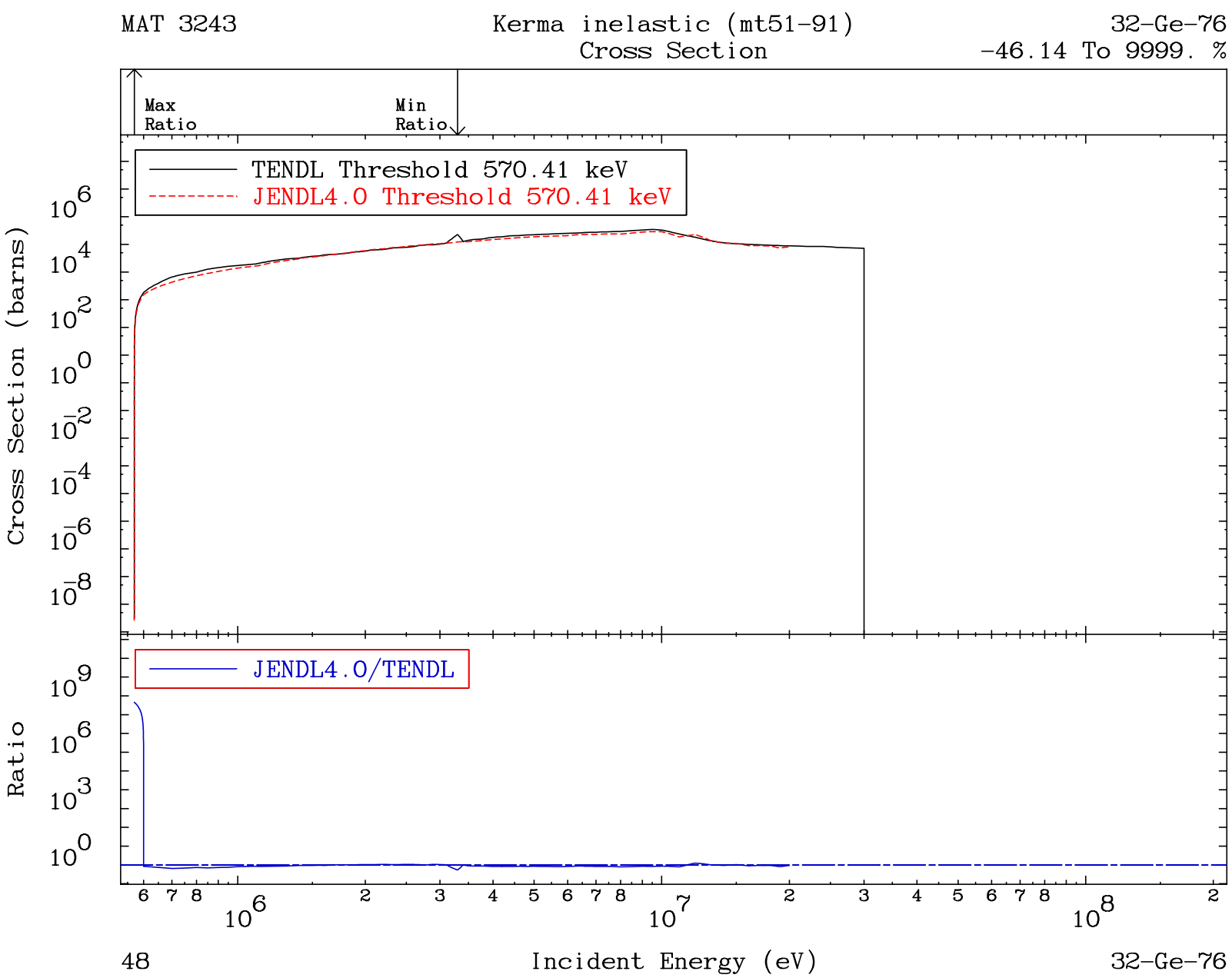

MAT 3243
Hydrogen Production
Cross Section
32-Ge-76
15.39 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.2154 MeV
JENDL4.0 Threshold 6.3097 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
32-Ge-76

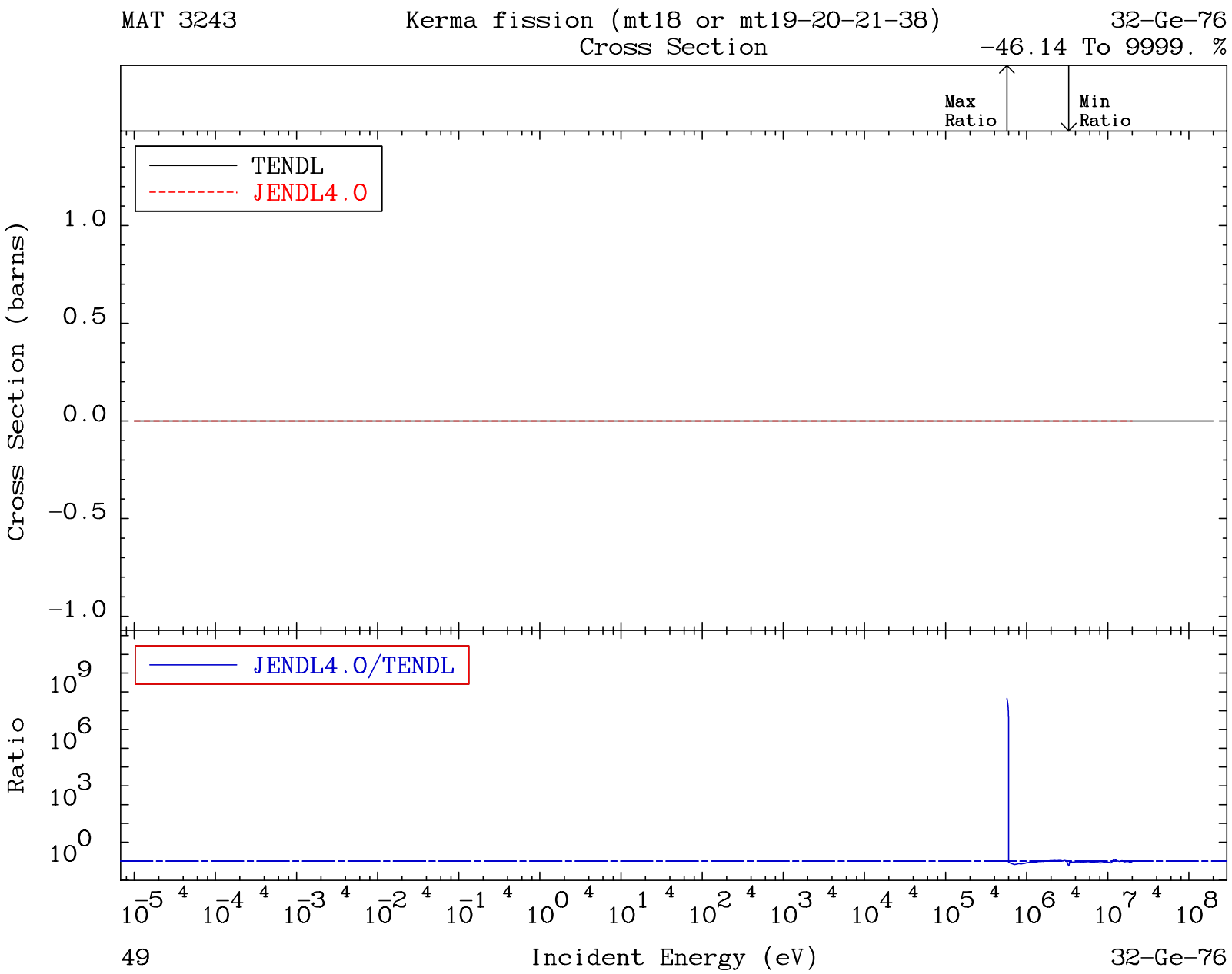

MAT 3243
He-4 Production
Cross Section
32-Ge-76
-73.37 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9993 MeV
JENDL4.0 Threshold 2.1846 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^6
10^3
10^0
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
32-Ge-76

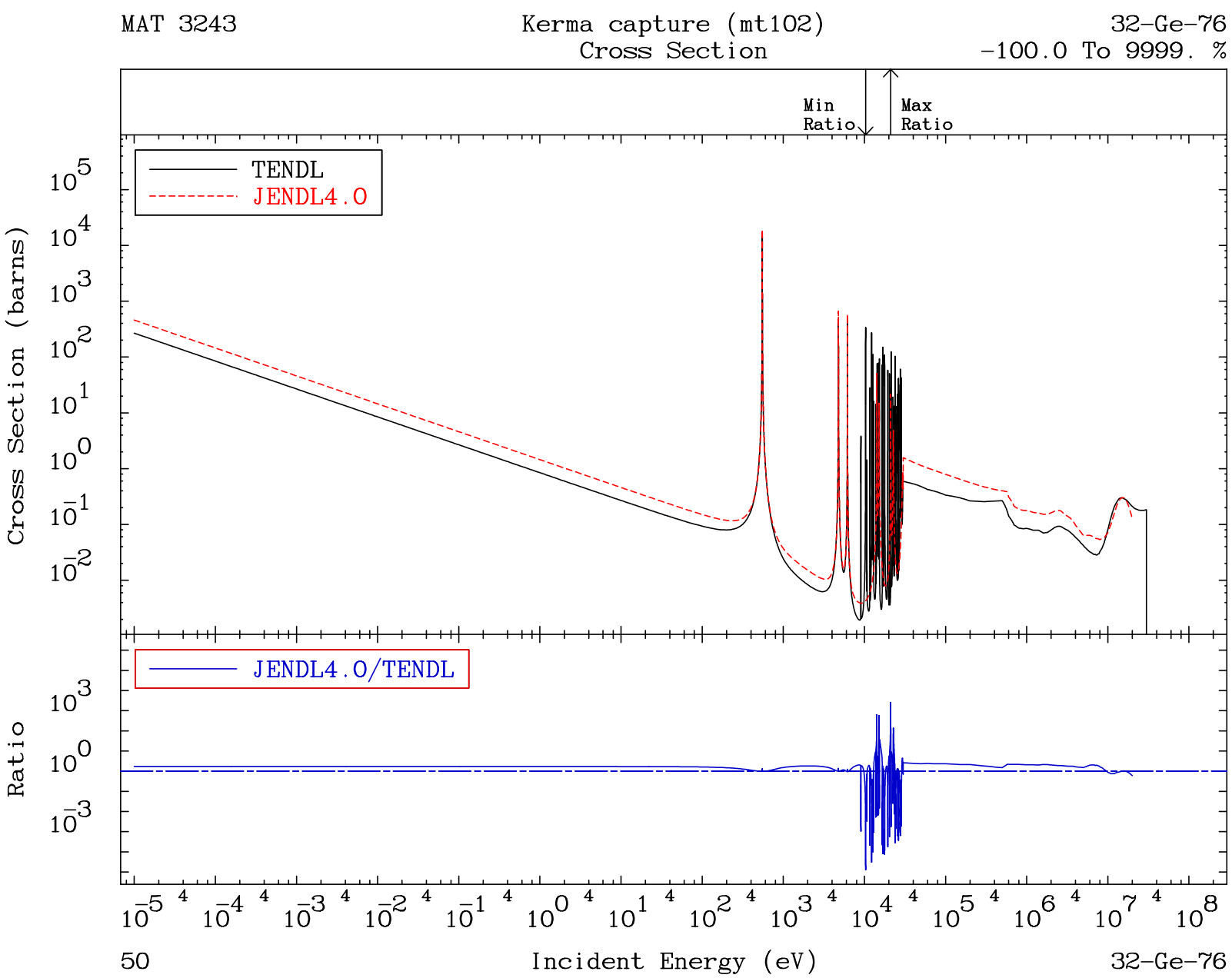

MAT 3243
Kerma total (eV-barns)
Cross Section
32-Ge-76
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
45
32-Ge-76

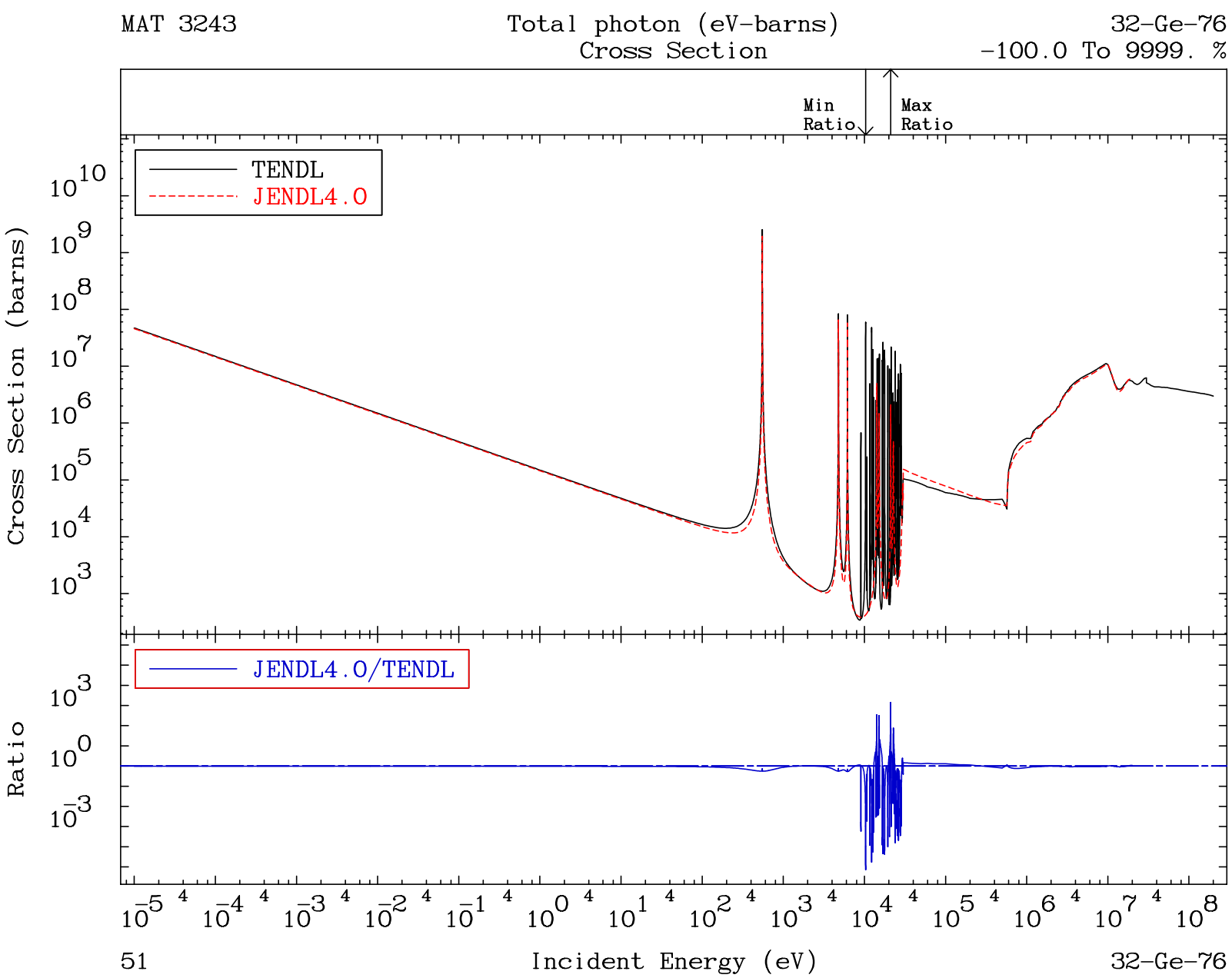

MAT 3243
Kerma elastic
Cross Section
32-Ge-76
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
46
32-Ge-76

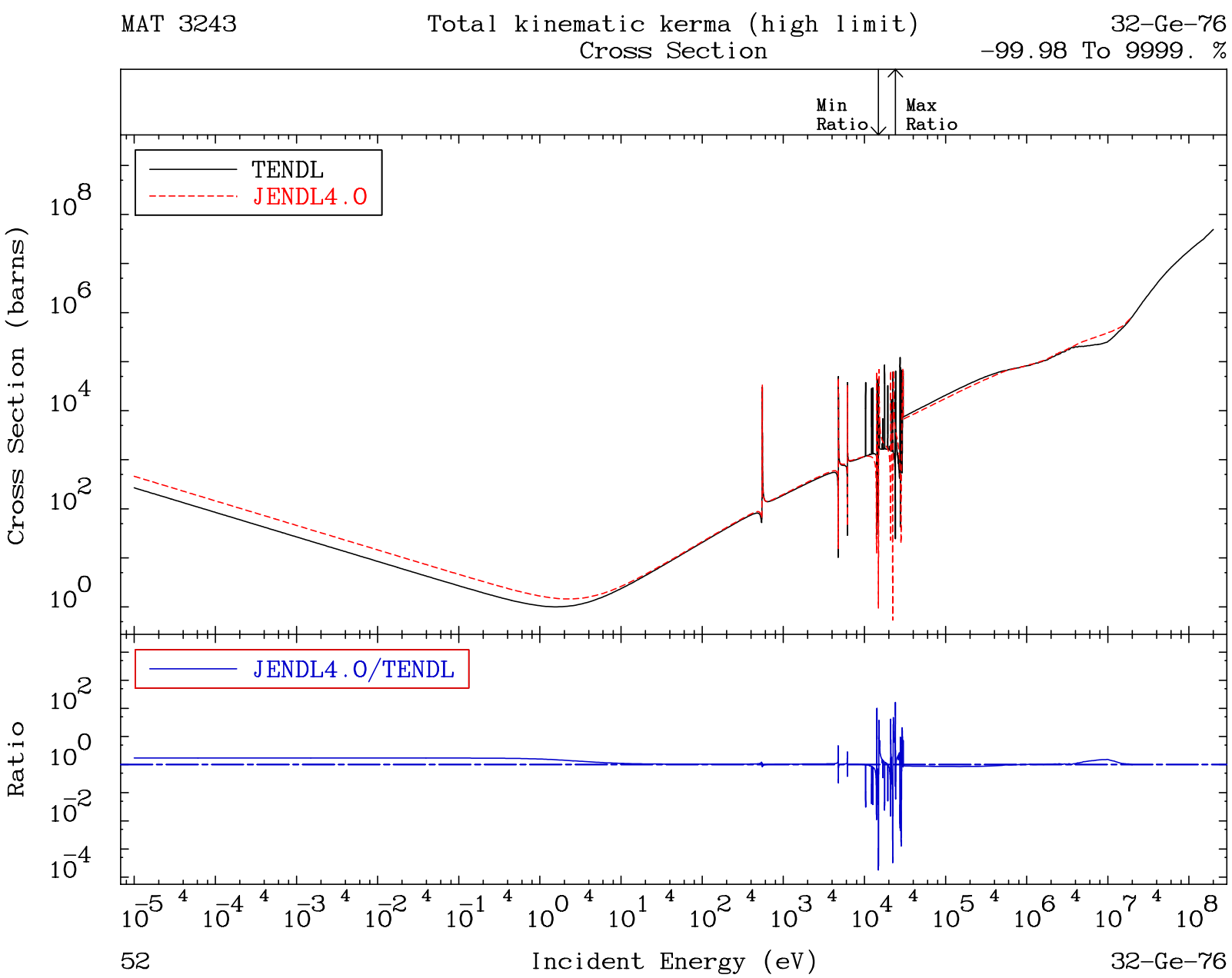

MAT 3243
Kerma non-elastic (all but mt2)
Cross Section
32-Ge-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
47
32-Ge-76

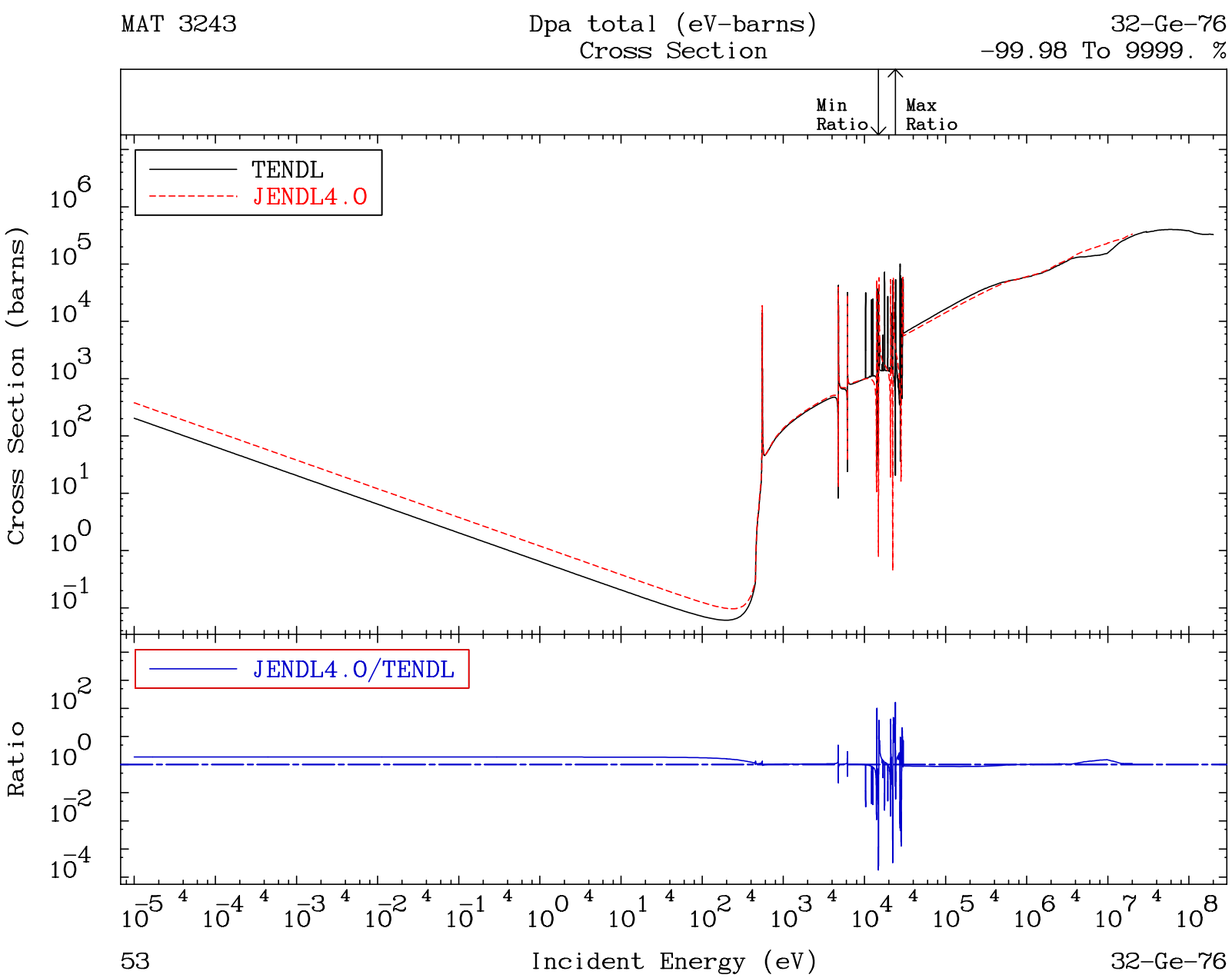

MAT 3243
Kerma inelastic (mt51-91)
Cross Section
32-Ge-76
-46.14 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 570.41 keV
JENDL4.0 Threshold 570.41 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
48
32-Ge-76

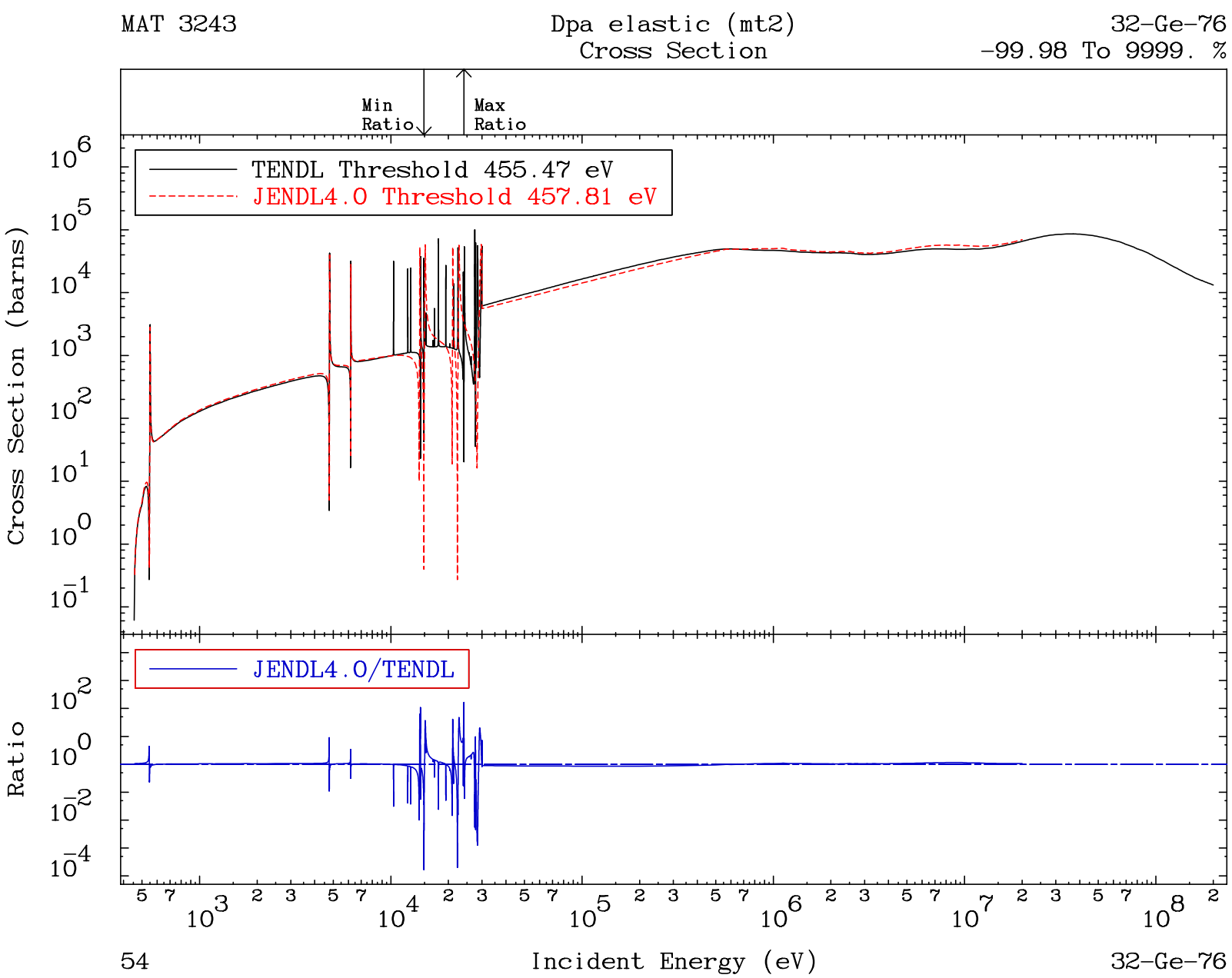

MAT 3243
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
32-Ge-76
-46.14 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
32-Ge-76

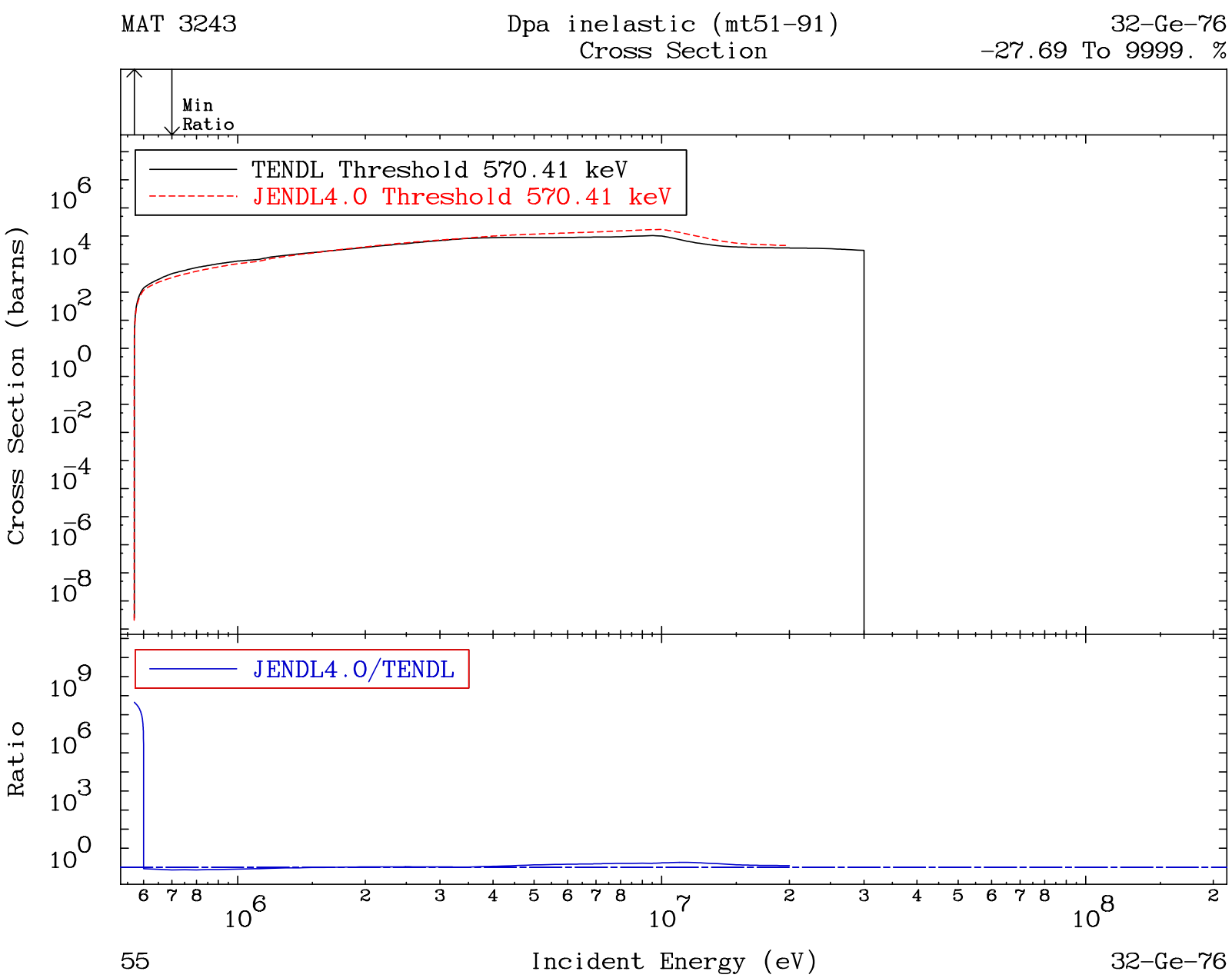

MAT 3243
Kerma capture (mt102)
Cross Section
32-Ge-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
50
32-Ge-76

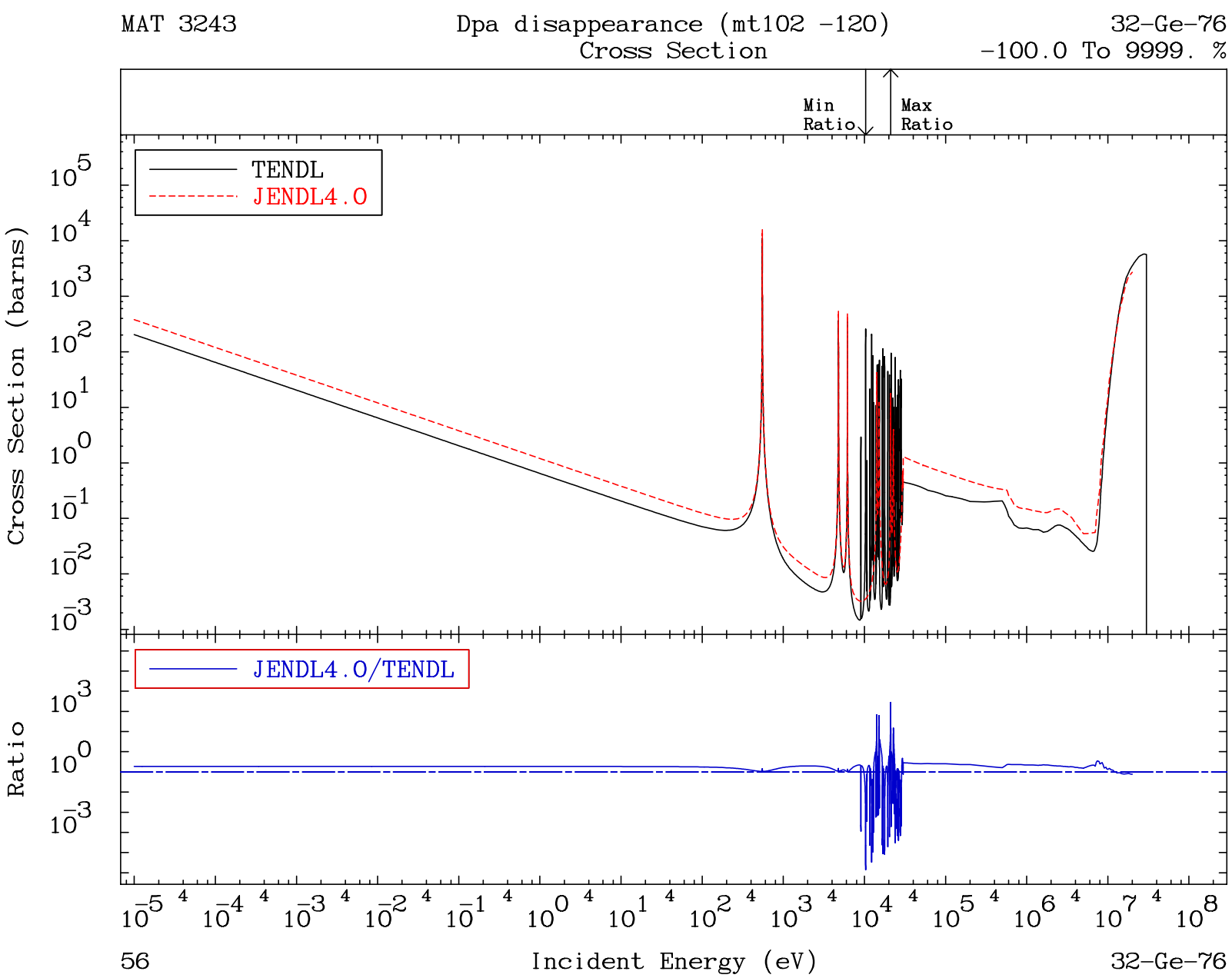

MAT 3243
Total photon (eV-barns)
Cross Section
32-Ge-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
51
32-Ge-76

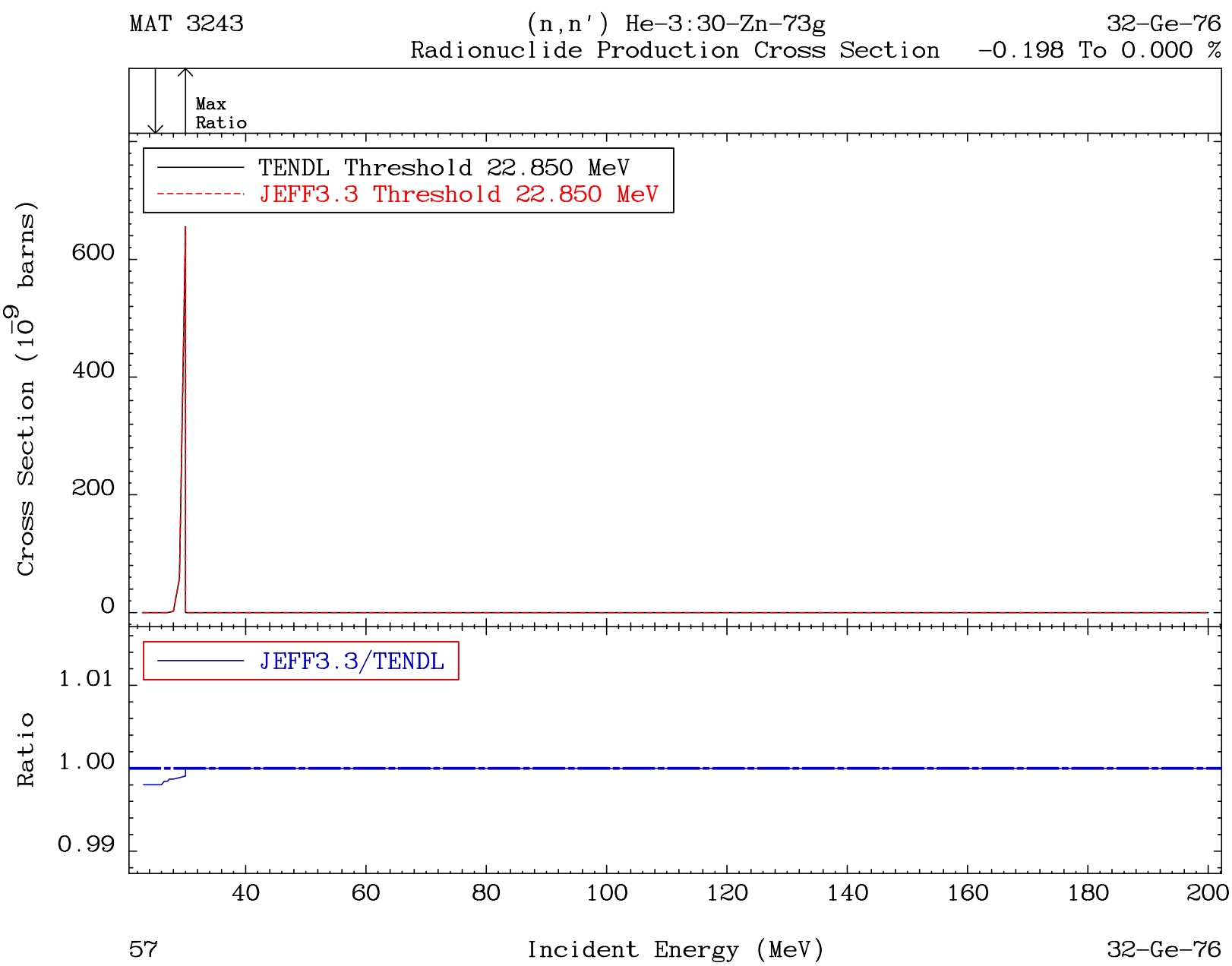

MAT 3243
Total kinematic kerma (high limit)
Cross Section
32-Ge-76
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
52
32-Ge-76

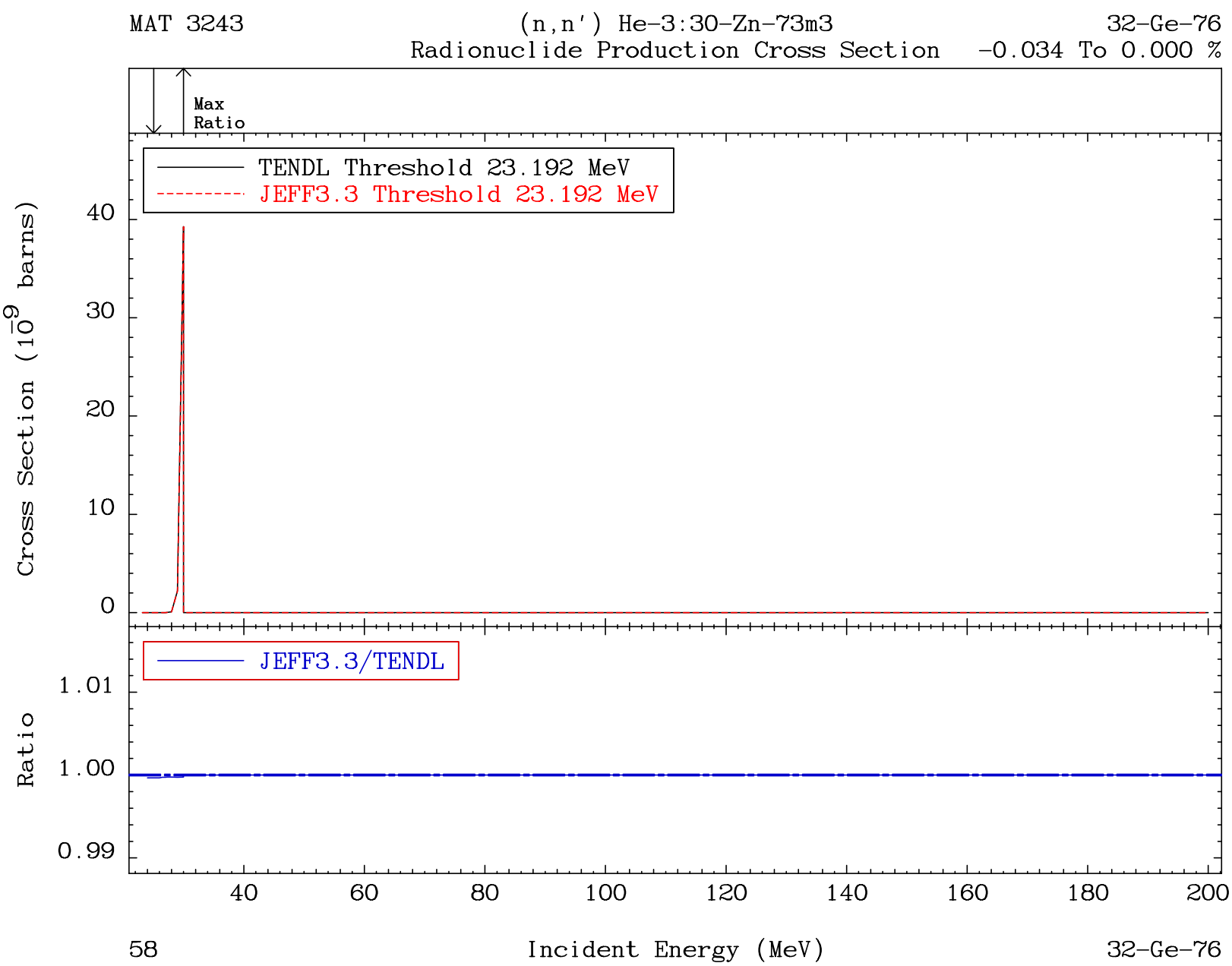

MAT 3243
Dpa total (eV-barns)
Cross Section
32-Ge-76
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
53
32-Ge-76

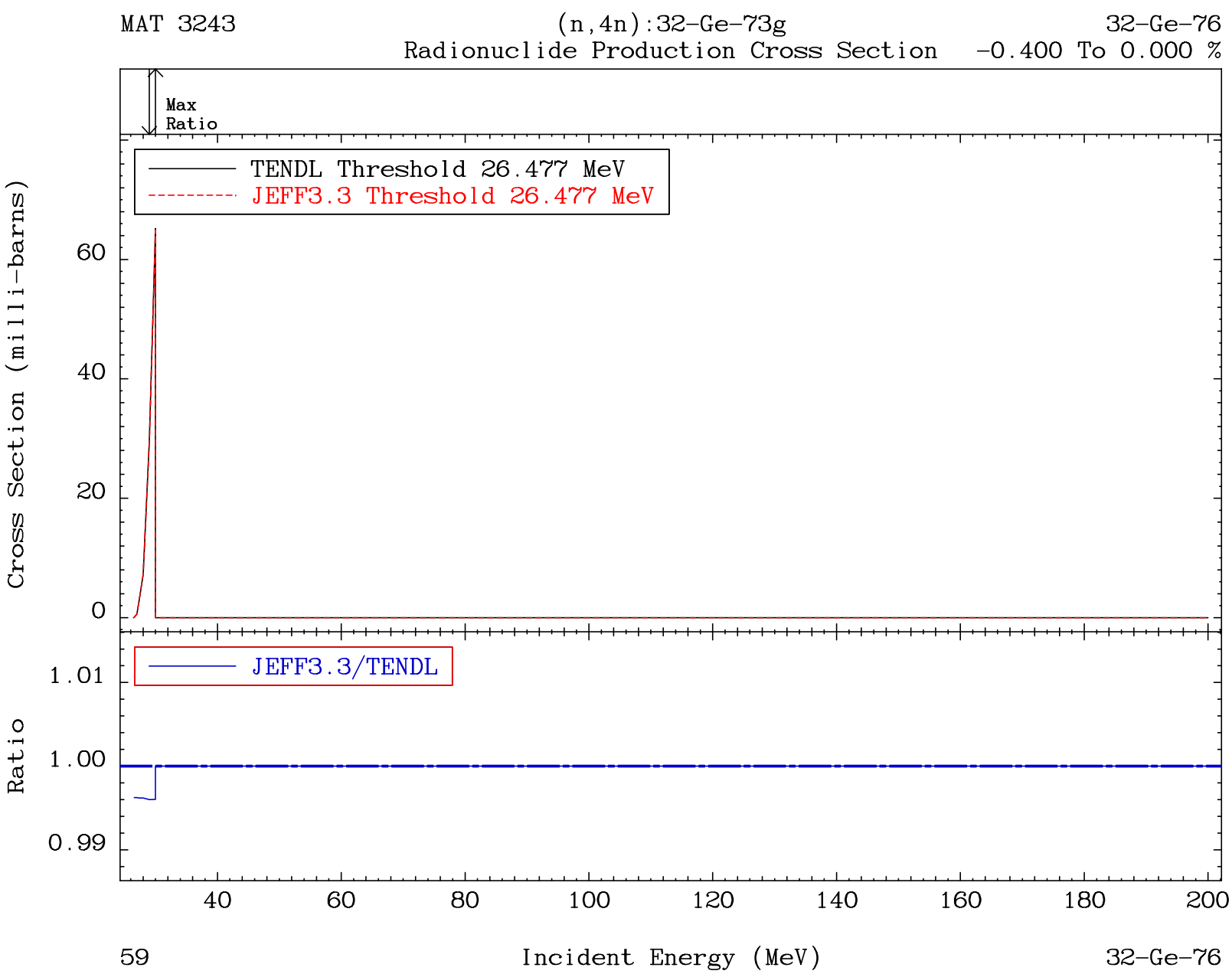

MAT 3243
Dpa elastic (mt2)
Cross Section
32-Ge-76
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 455.47 eV
JENDL4.0 Threshold 457.81 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
54
32-Ge-76

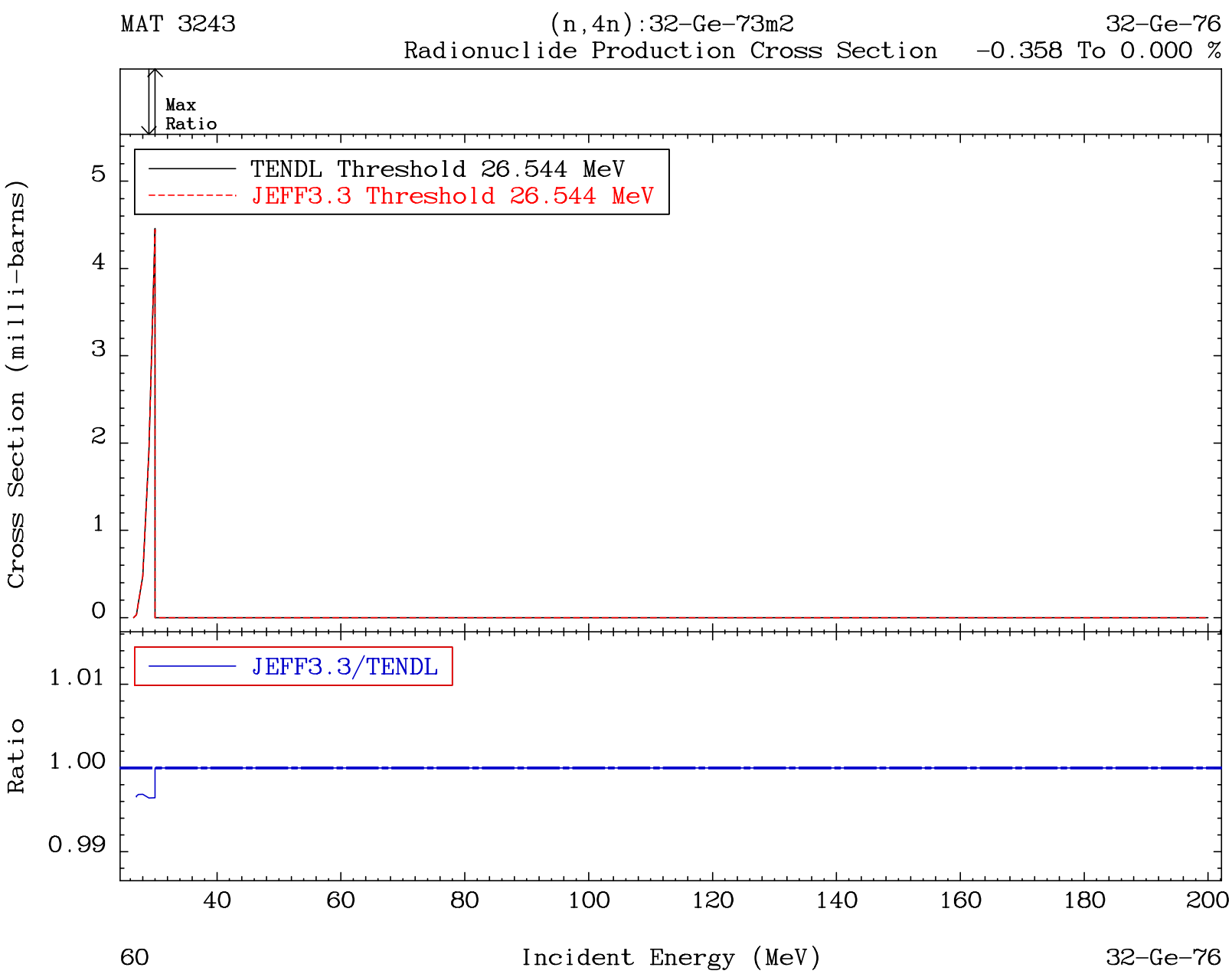

MAT 3243
Dpa inelastic (mt51-91)
Cross Section
32-Ge-76
-27.69 To 9999. %
Min
Ratio
TENDL Threshold 570.41 keV
JENDL4.0 Threshold 570.41 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
55
32-Ge-76

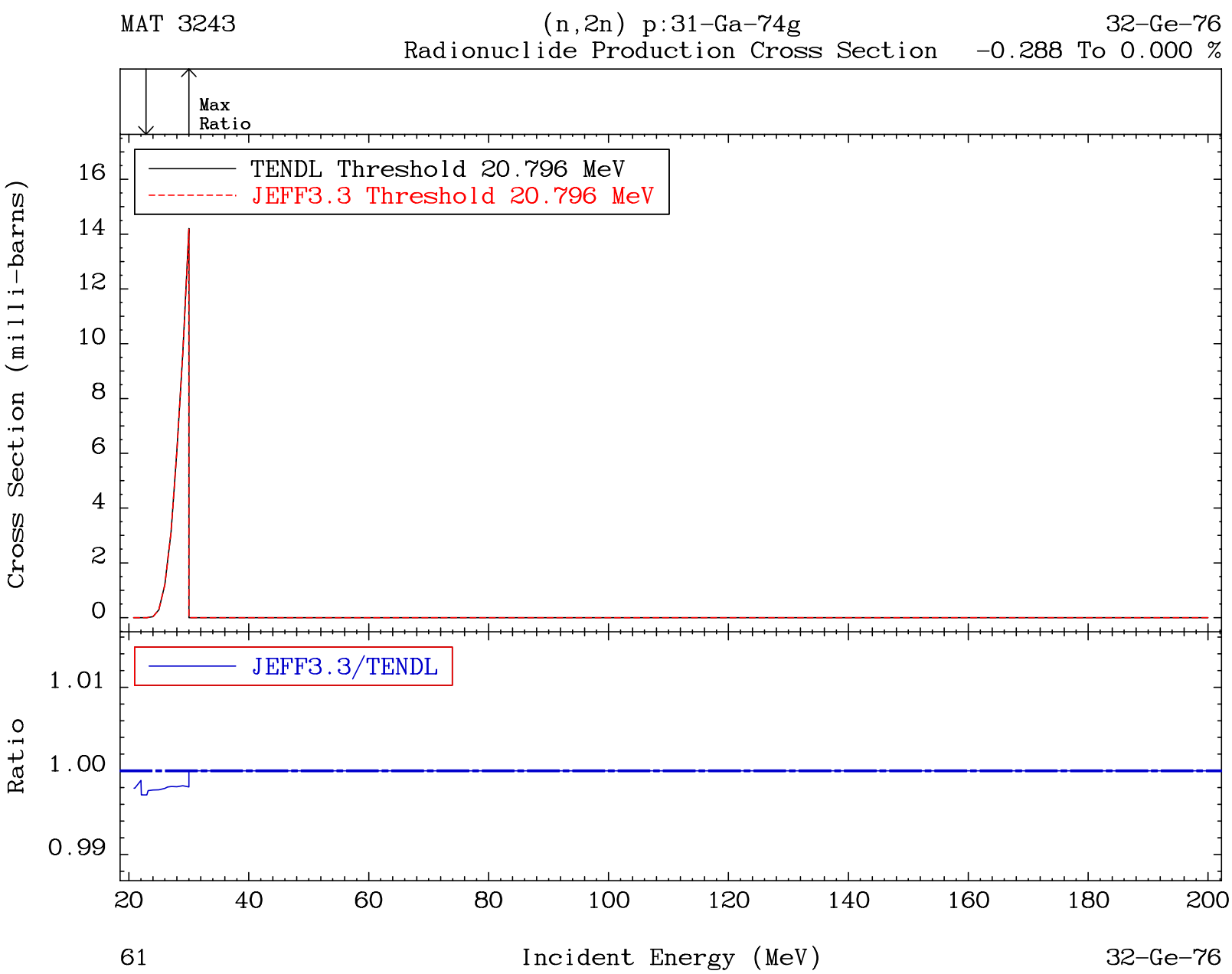

MAT 3243
Dpa disappearance (mt102 -120)
Cross Section
32-Ge-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
56
32-Ge-76

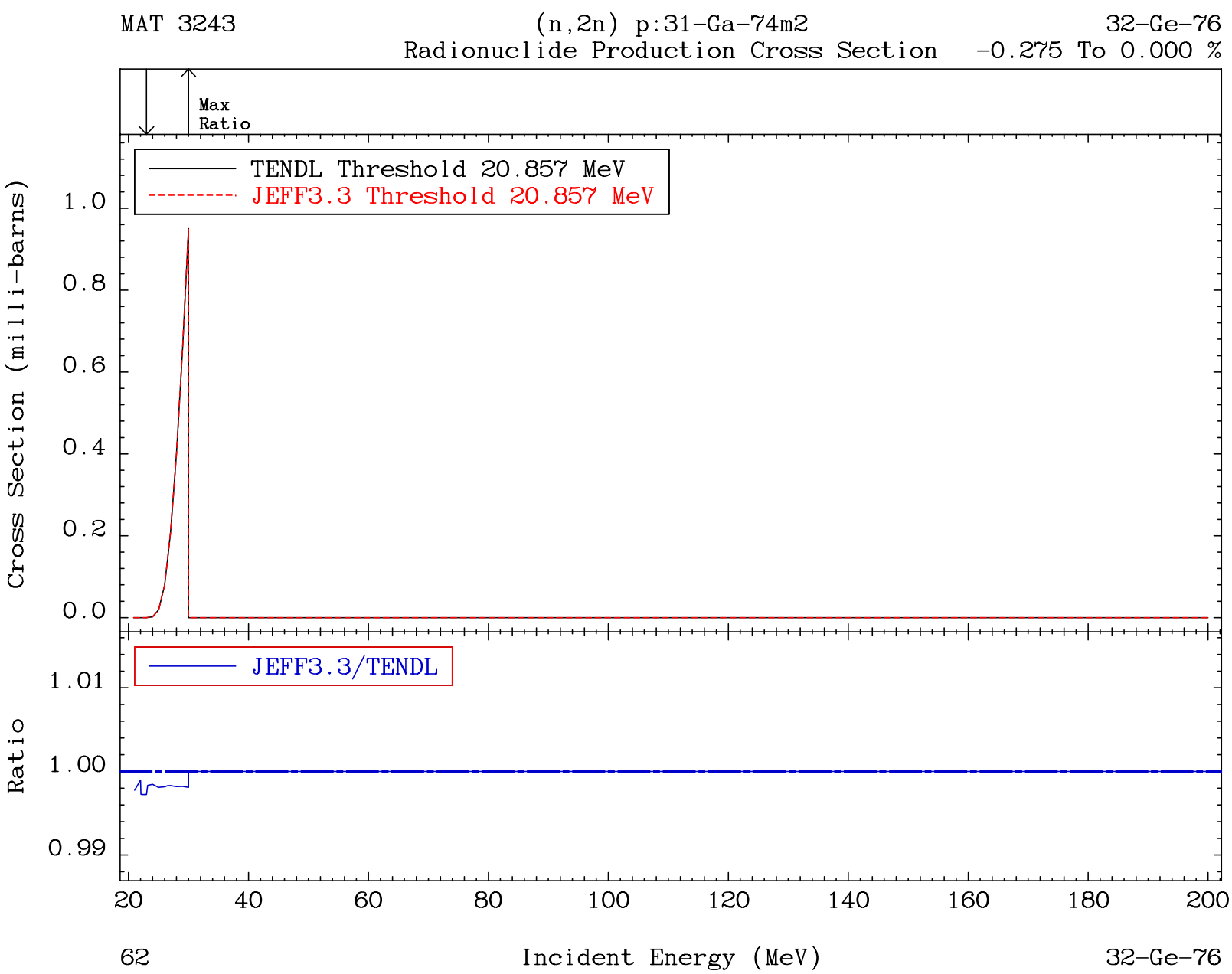

MAT 3243
(n,n') He-3:30-Zn-73g
32-Ge-76
Radionuclide Production Cross Section
-0.198 To 0.000 %
Max
Ratio
TENDL Threshold 22.850 MeV
JEFF3.3 Threshold 22.850 MeV
Cross Section (10-9 barns)
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
57
Incident Energy (MeV)
32-Ge-76

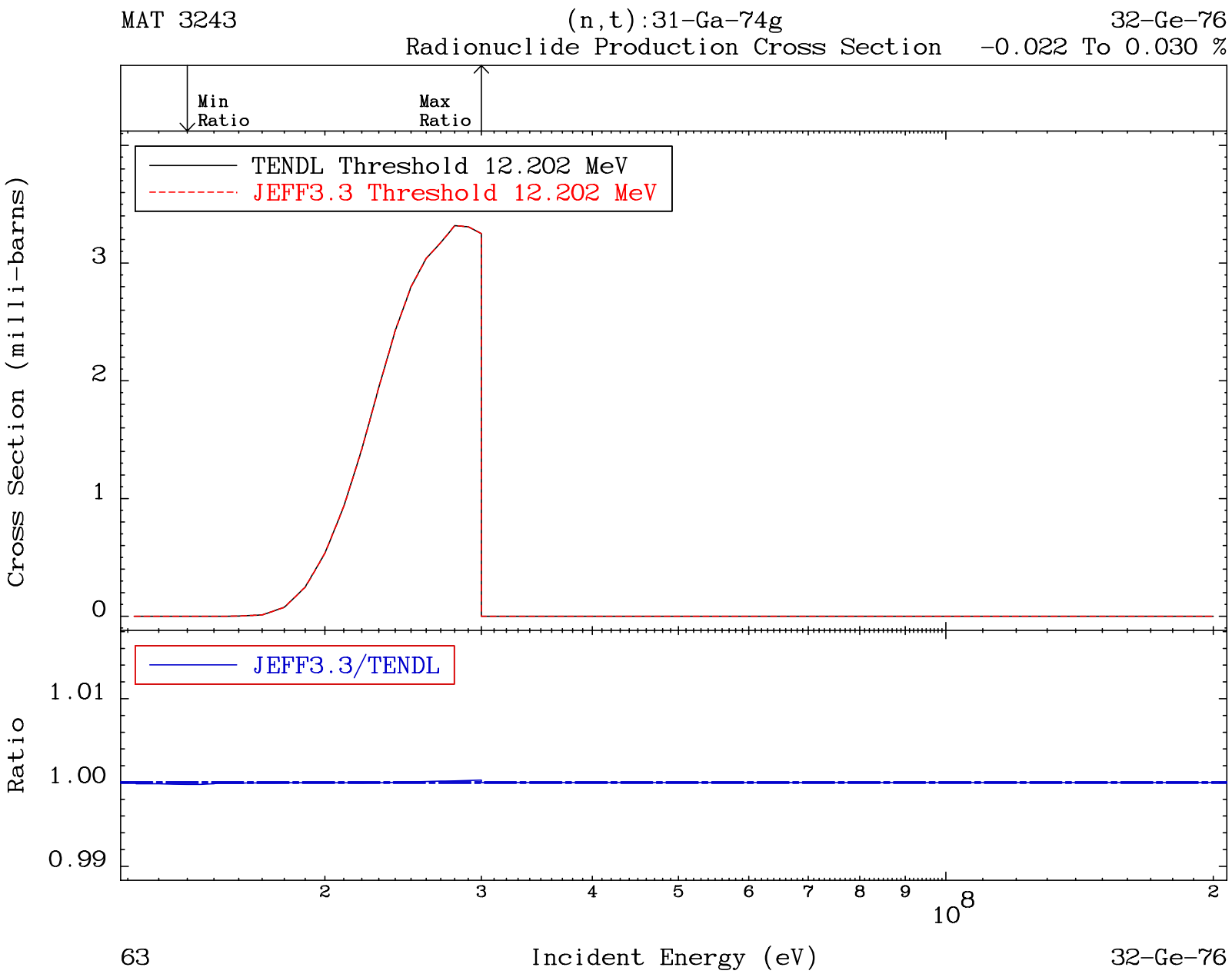

MAT 3243
(n,n') He-3:30-Zn-73m3
32-Ge-76
Radionuclide Production Cross Section
-0.034 To 0.000 %
Max
Ratio
TENDL Threshold 23.192 MeV
JEFF3.3 Threshold 23.192 MeV
Cross Section (10-9 barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
58
Incident Energy (MeV)
32-Ge-76

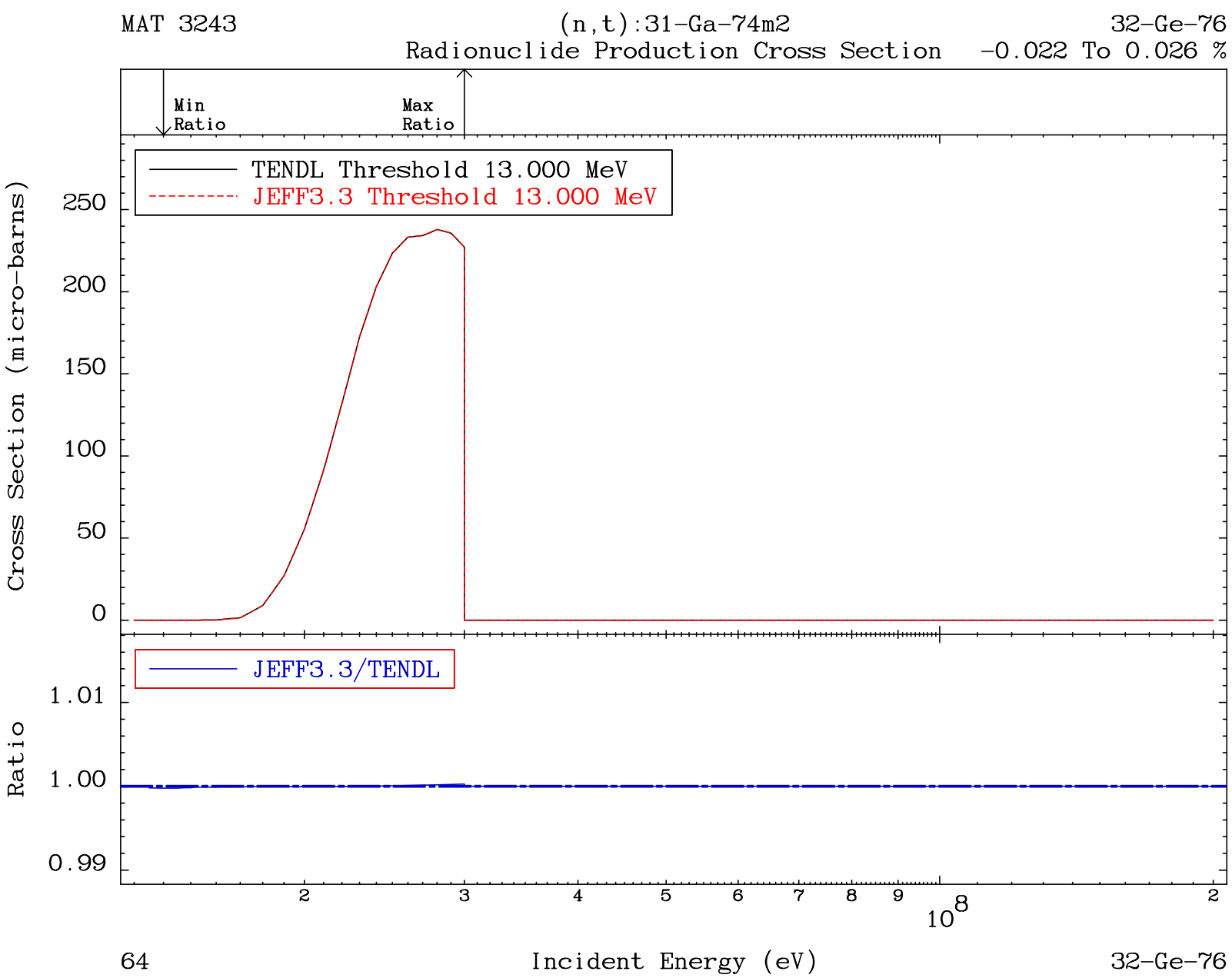

MAT 3243
(n,4n):32-Ge-73g
32-Ge-76
Radionuclide Production Cross Section
-0.400 To 0.000 %
Max
Ratio
TENDL Threshold 26.477 MeV
JEFF3.3 Threshold 26.477 MeV
Cross Section (milli-barns)
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
59
Incident Energy (MeV)
32-Ge-76

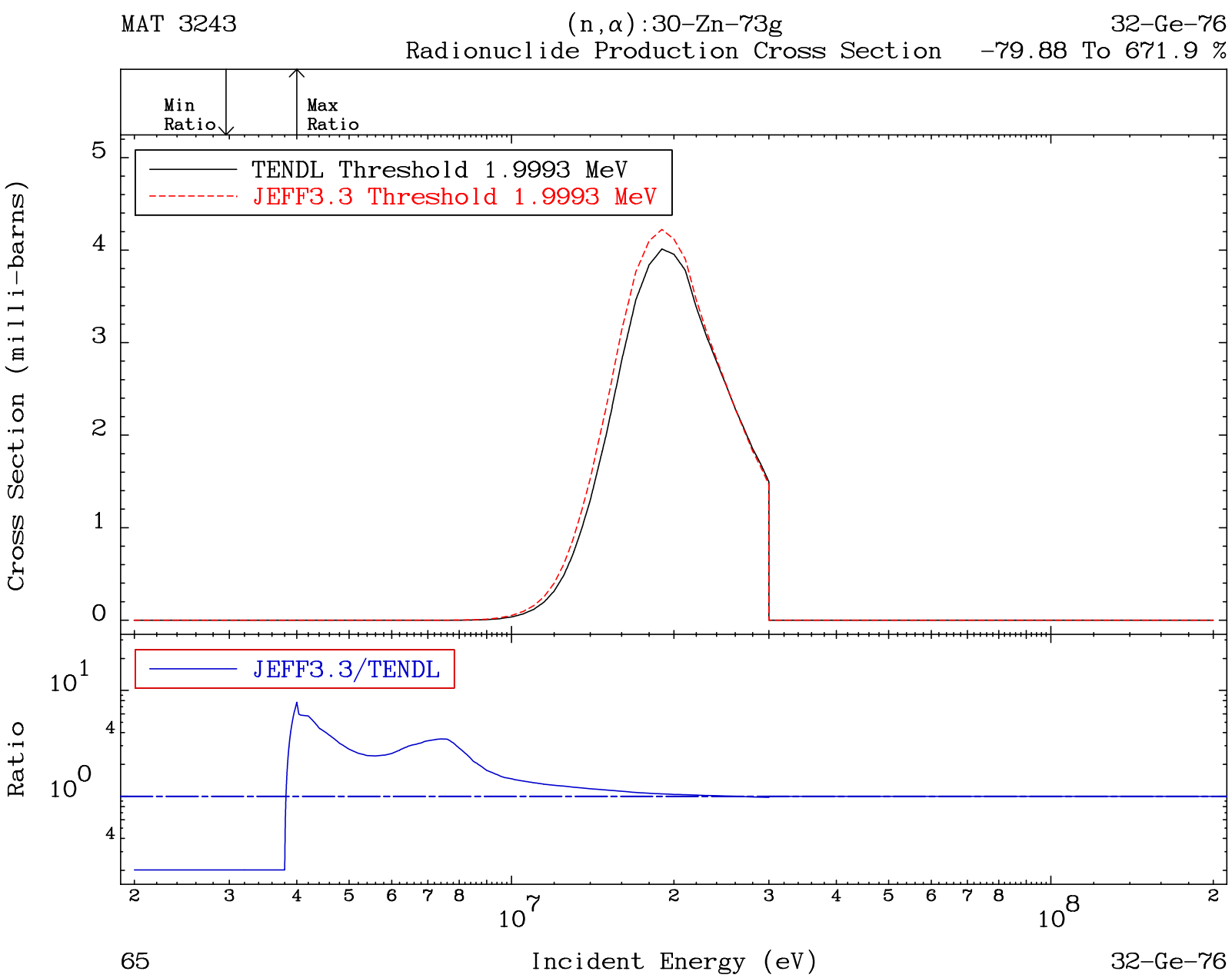

MAT 3243
(n,4n):32-Ge-73m2
32-Ge-76
Radionuclide Production Cross Section
-0.358 To 0.000 %
Max
Ratio
TENDL Threshold 26.544 MeV
JEFF3.3 Threshold 26.544 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
40
60
80
100
120
140
160
180
200
60
Incident Energy (MeV)
32-Ge-76

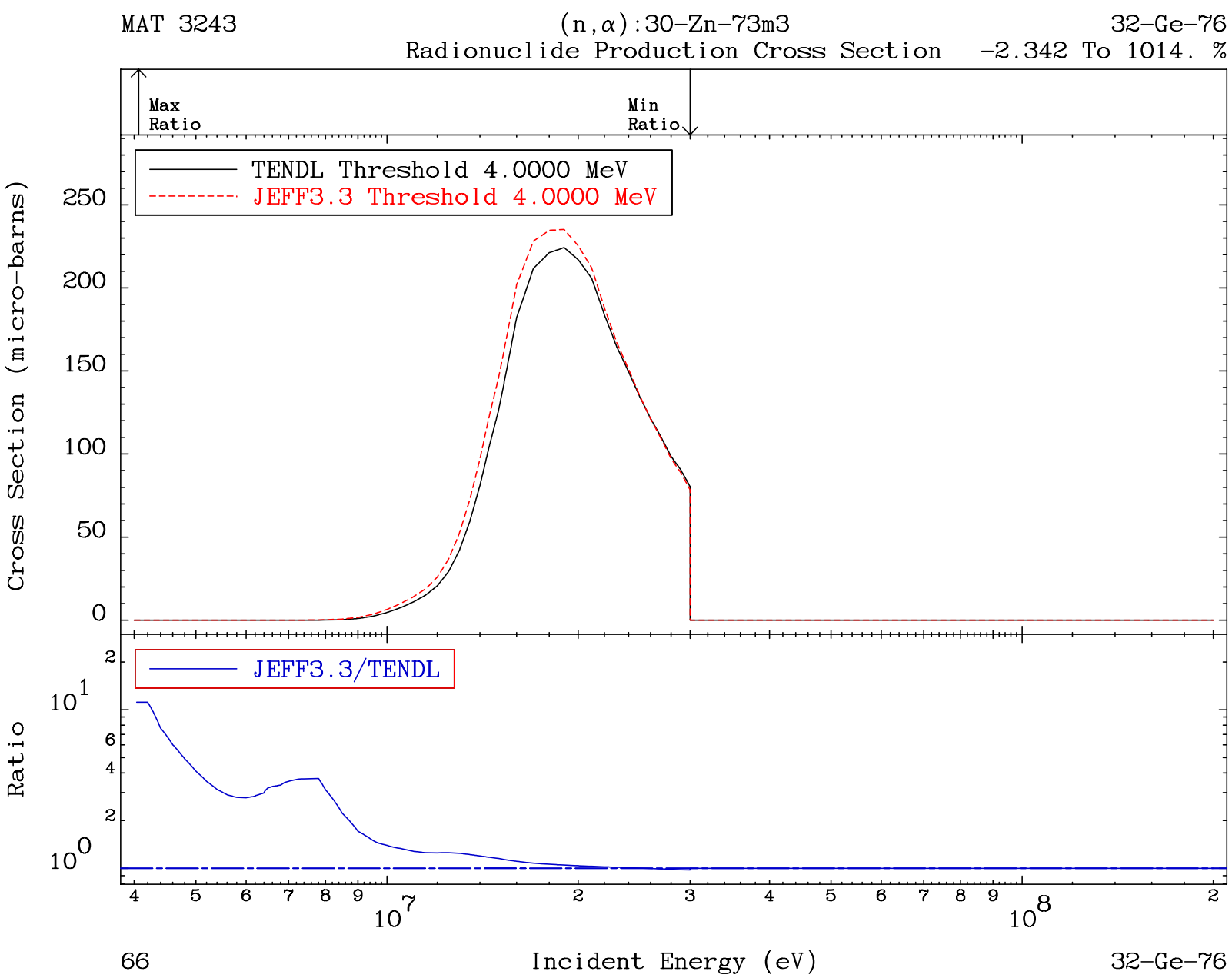

MAT 3243
(n,2n) p:31-Ga-74g
32-Ge-76
Radionuclide Production Cross Section
-0.288 To 0.000 %
Max
Ratio
TENDL Threshold 20.796 MeV
JEFF3.3 Threshold 20.796 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
16
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
61
Incident Energy (MeV)
32-Ge-76

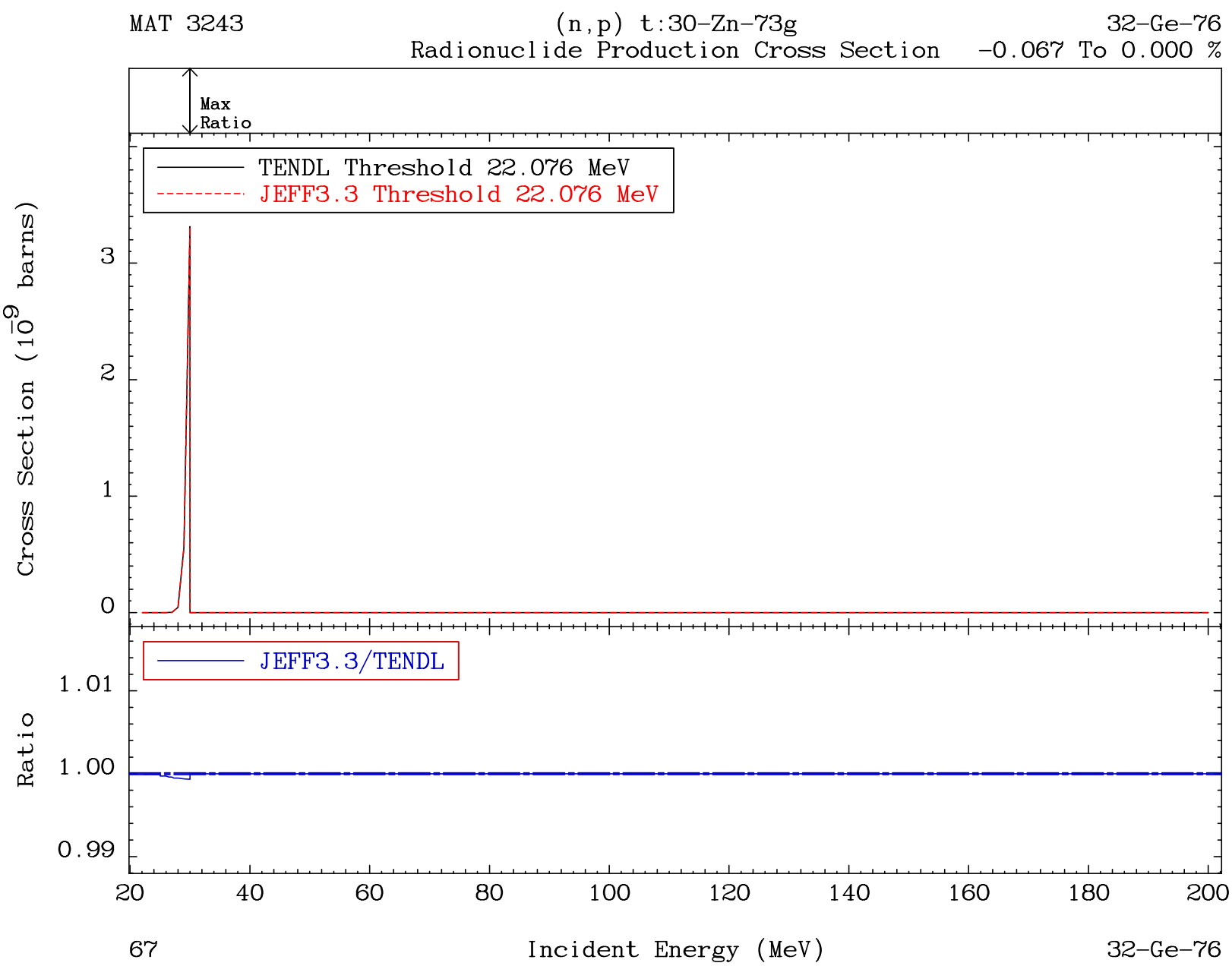

MAT 3243
(n,2n) p:31-Ga-74m2
32-Ge-76
Radionuclide Production Cross Section
-0.275 To 0.000 %
Max
Ratio
TENDL Threshold 20.857 MeV
JEFF3.3 Threshold 20.857 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
20
40
60
80
100
120
140
160
180
200
62
Incident Energy (MeV)
32-Ge-76

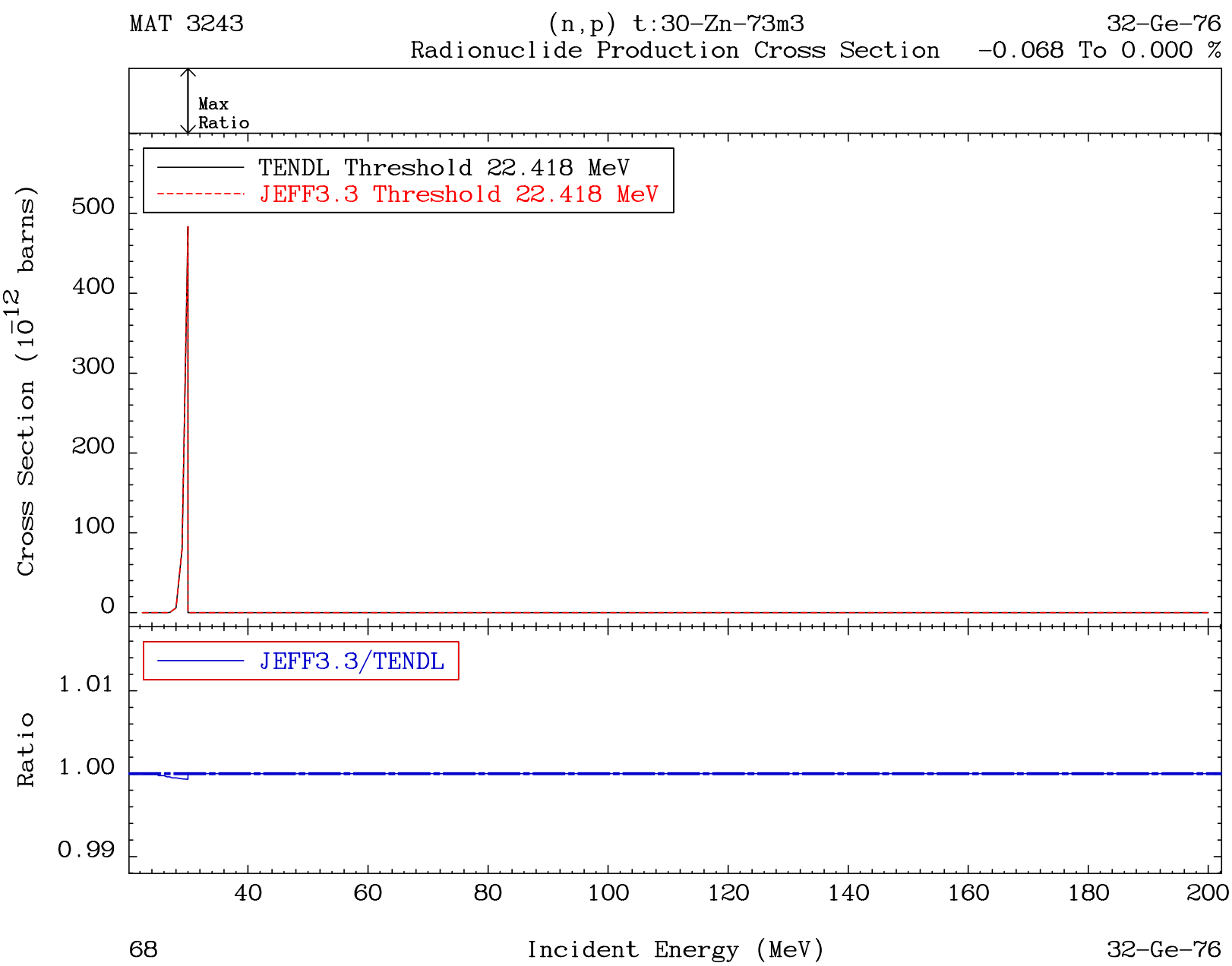

MAT 3243
(n,t):31-Ga-74g
32-Ge-76
Radionuclide Production Cross Section
-0.022 To 0.030 %
Min Ratio
Max Ratio
TENDL Threshold 12.202 MeV
JEFF3.3 Threshold 12.202 MeV
Cross Section (milli-barns)
0
1
2
3
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
32-Ge-76


MAT 3243
(n,t):31-Ga-74m2
32-Ge-76
Radionuclide Production Cross Section
-0.022 To 0.026 %
Min Ratio
Max Ratio
TENDL Threshold 13.000 MeV
JEFF3.3 Threshold 13.000 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
32-Ge-76


MAT 3243
(n,α):30-Zn-73g
32-Ge-76
Radionuclide Production Cross Section -79.88 To 671.9 %
Min Ratio
Max Ratio
TENDL Threshold 1.9993 MeV
JEFF3.3 Threshold 1.9993 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
32-Ge-76


MAT 3243
(n,α):30-Zn-73m3
32-Ge-76
Radionuclide Production Cross Section -2.342 To 1014. %
Max Ratio
Min Ratio
TENDL Threshold 4.0000 MeV
JEFF3.3 Threshold 4.0000 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^1
6
4
2
10^0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
66
Incident Energy (eV)
32-Ge-76


MAT 3243
(n,p) t:30-Zn-73g
32-Ge-76
Radionuclide Production Cross Section
-0.067 To 0.000 %
Max
Ratio
TENDL Threshold 22.076 MeV
JEFF3.3 Threshold 22.076 MeV
Cross Section (10-9 barns)
0
1
2
3
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
32-Ge-76


MAT 3243
(n,p) t:30-Zn-73m3
32-Ge-76
Radionuclide Production Cross Section
-0.068 To 0.000 %
Max
Ratio
TENDL Threshold 22.418 MeV
JEFF3.3 Threshold 22.418 MeV
Cross Section (10^-12 barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
68
Incident Energy (MeV)
32-Ge-76