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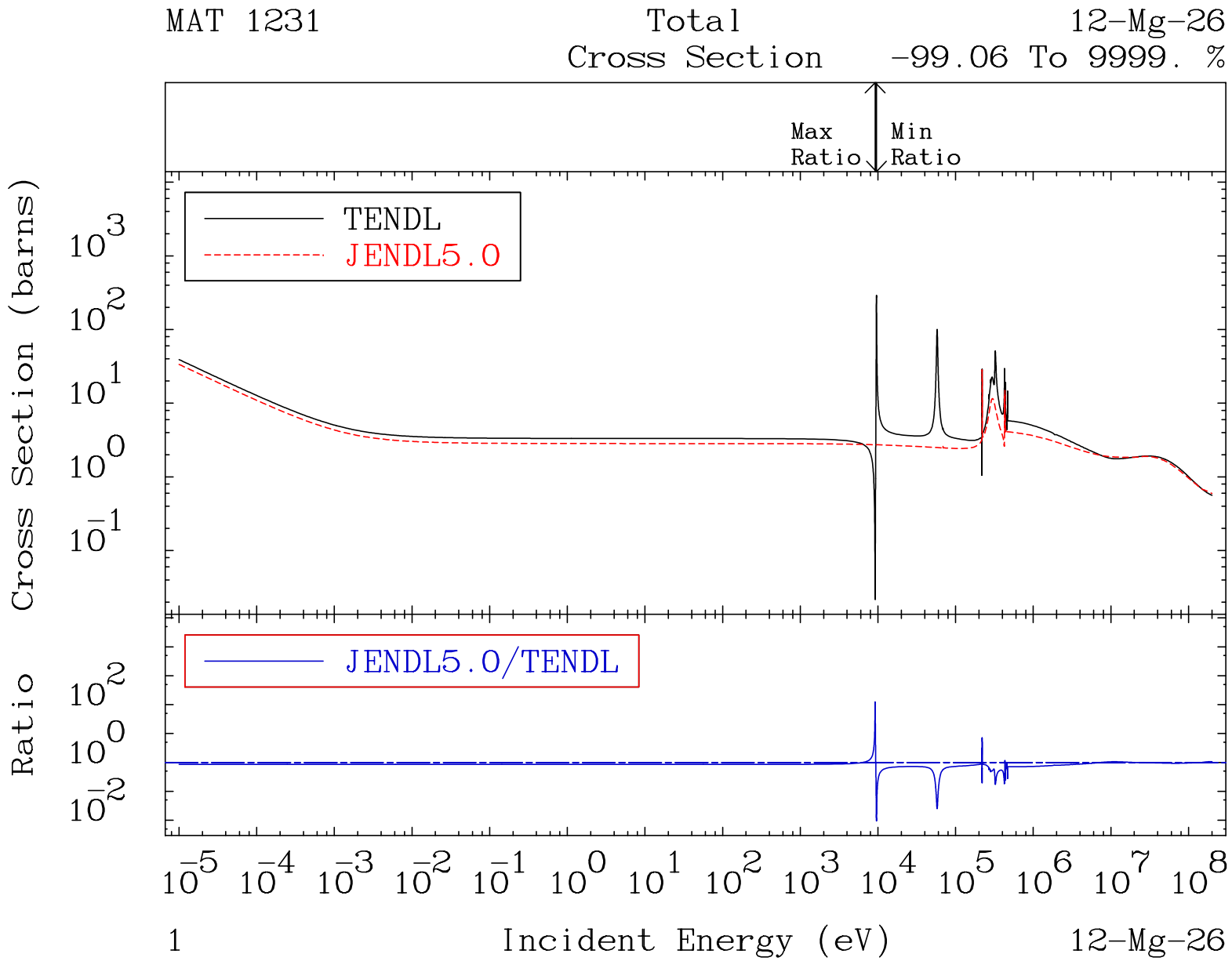
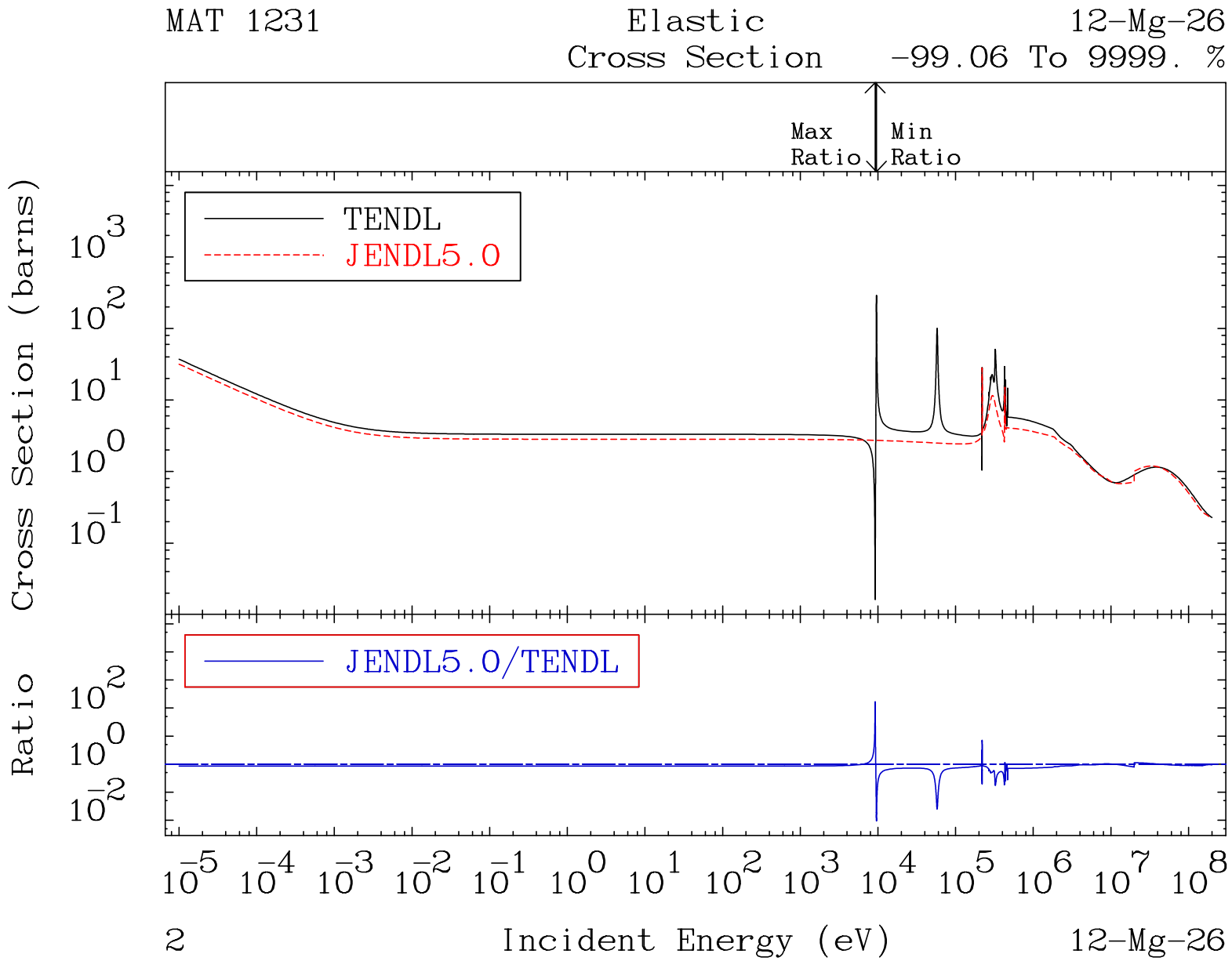
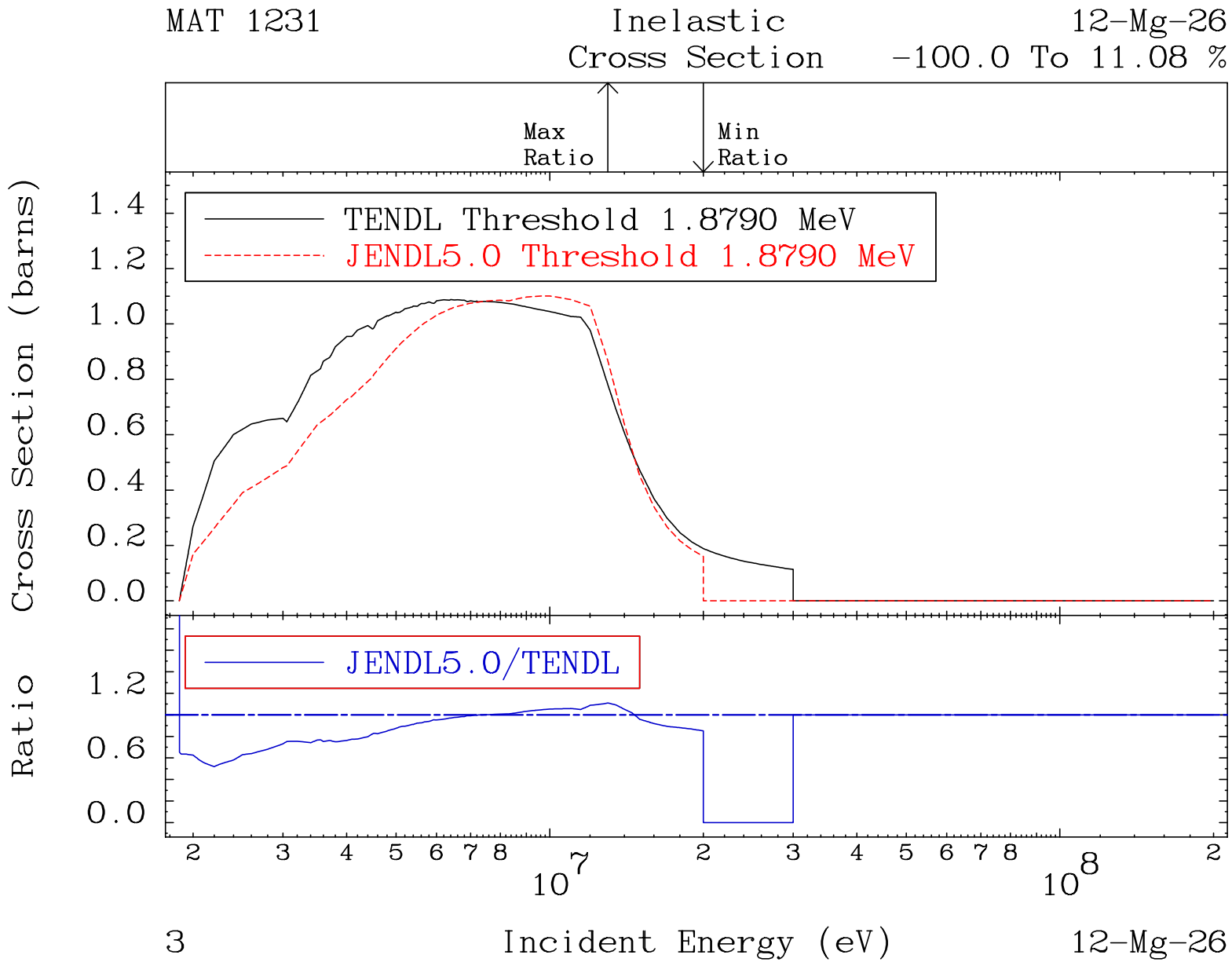
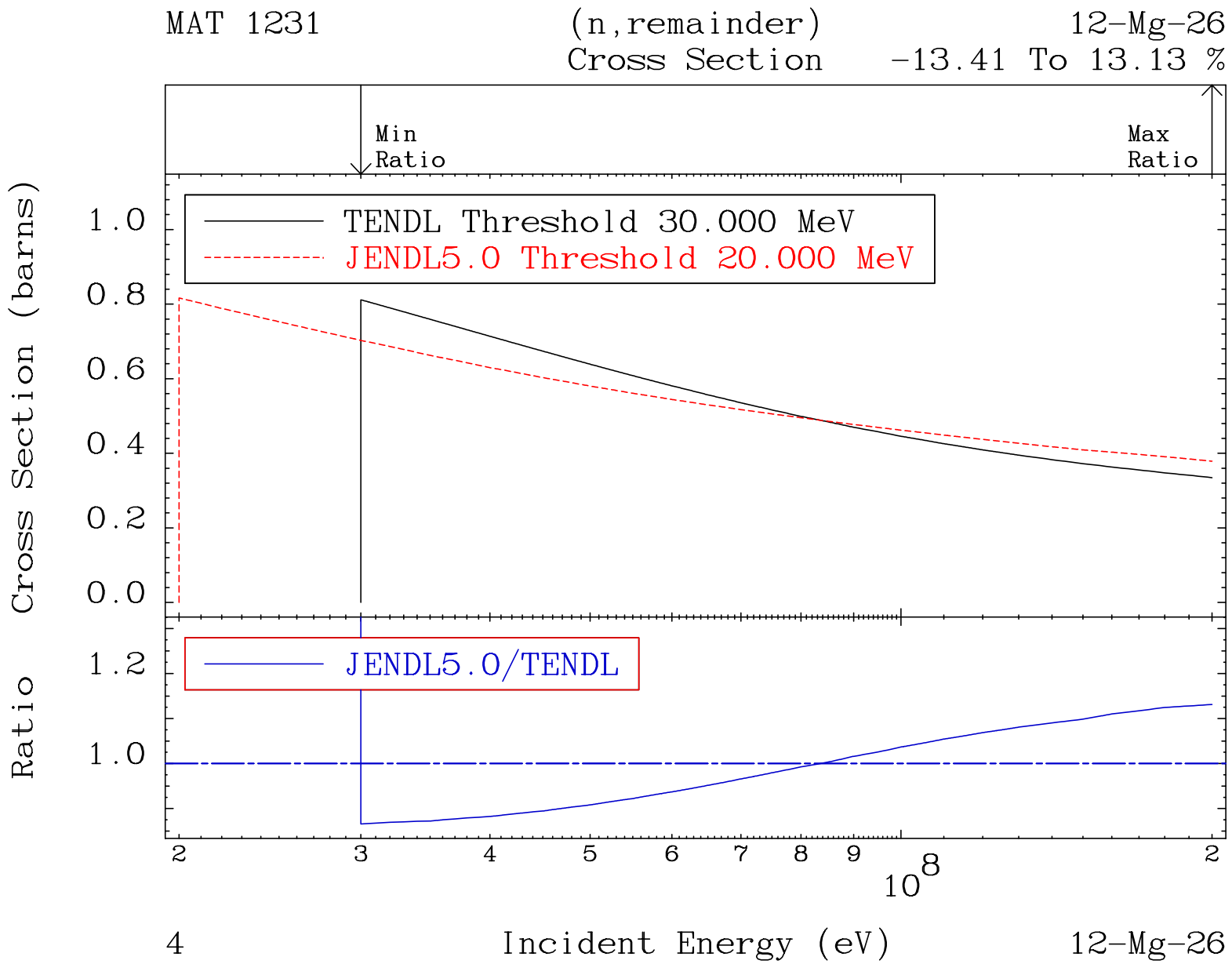
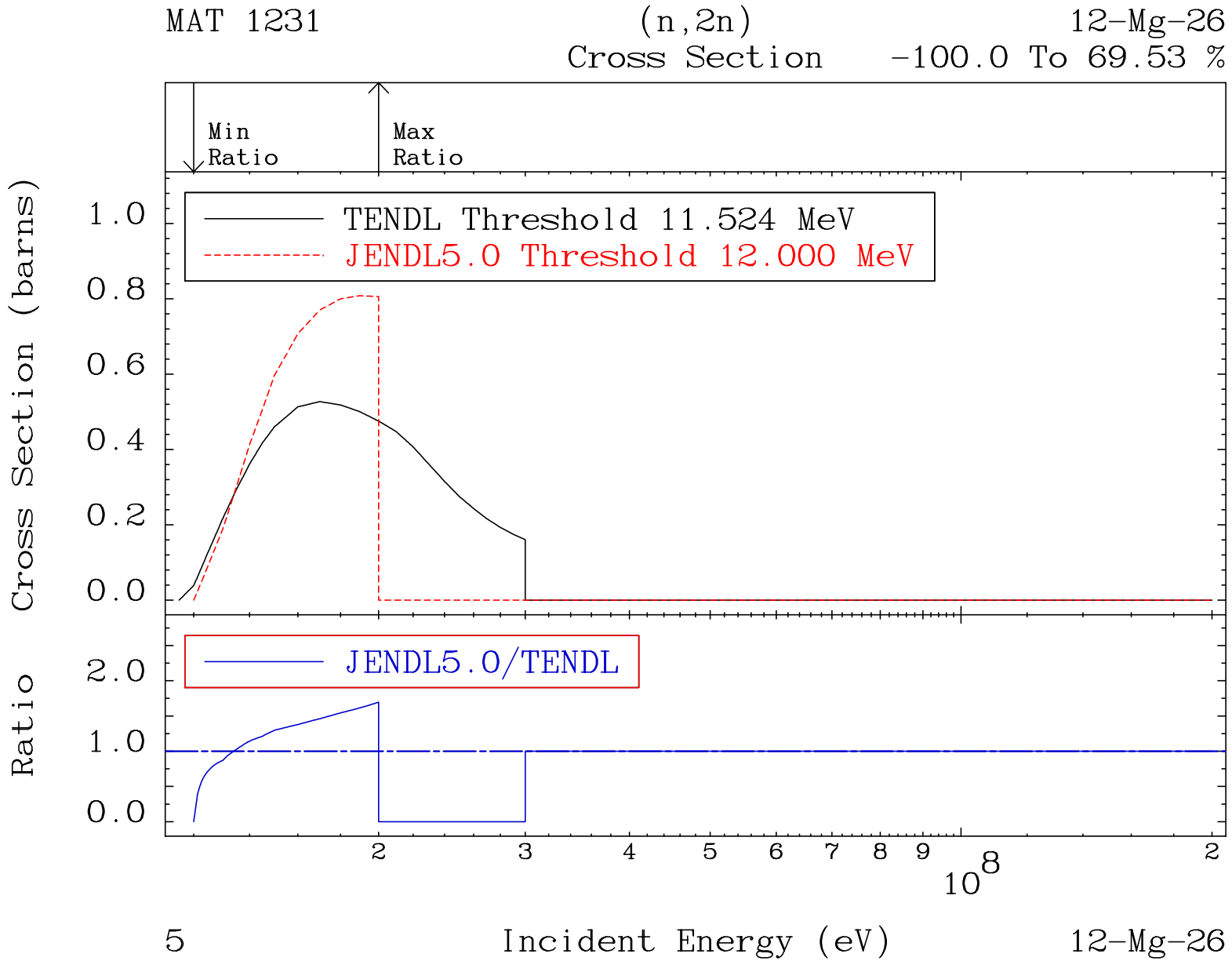
Press Mouse Button to Start

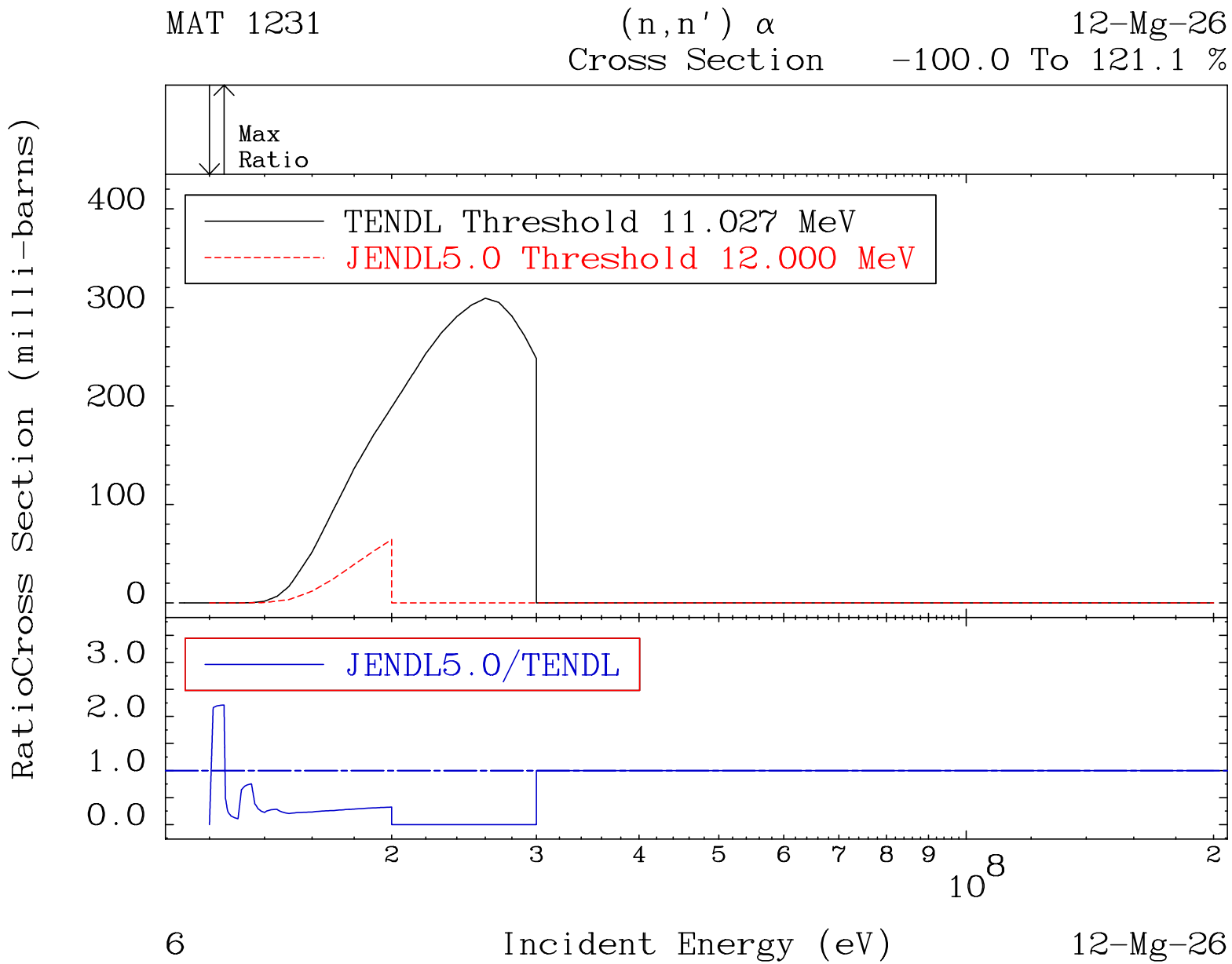

MAT 1231
Total
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
1
12-Mg-26

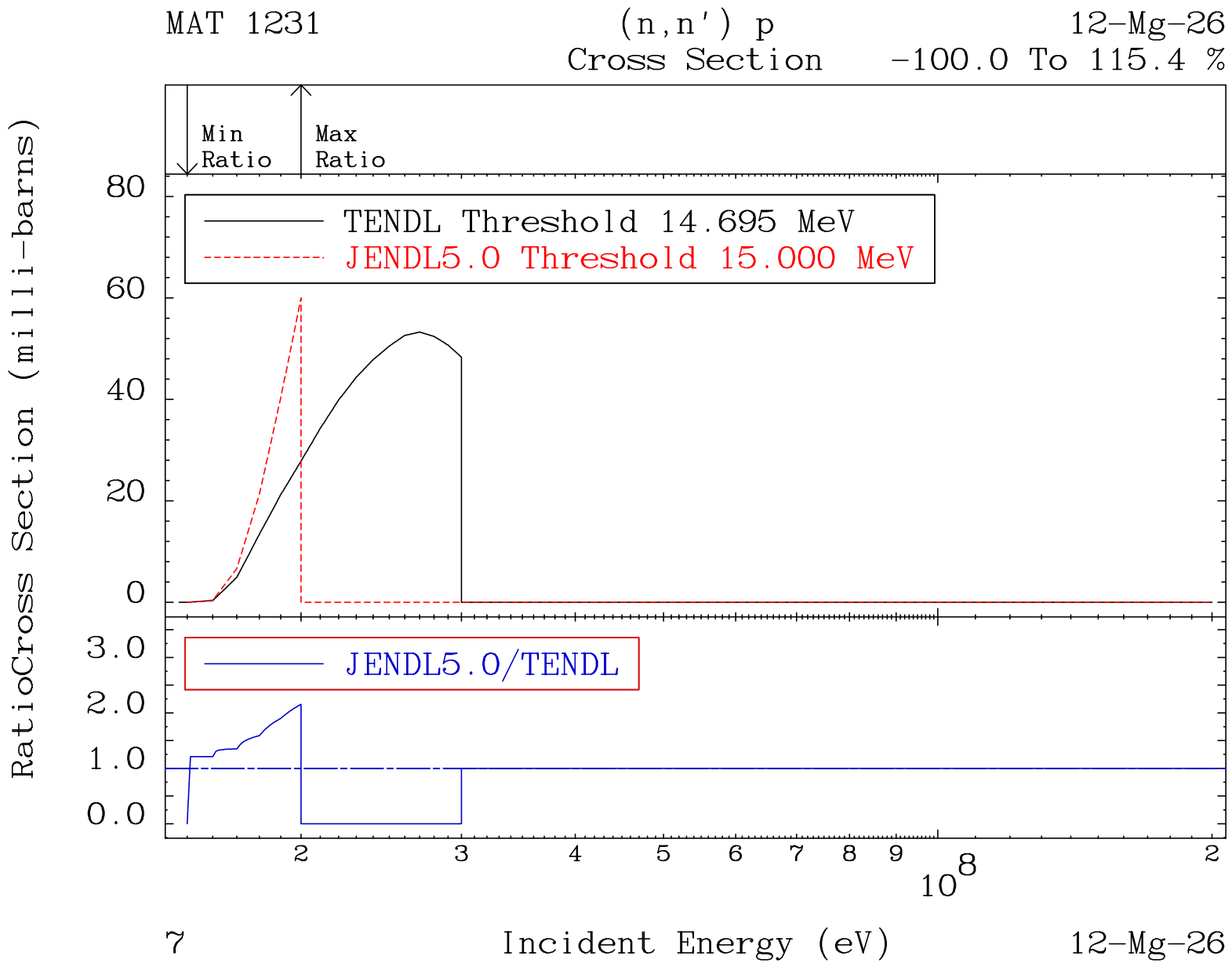

MAT 1231
Elastic
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
12-Mg-26

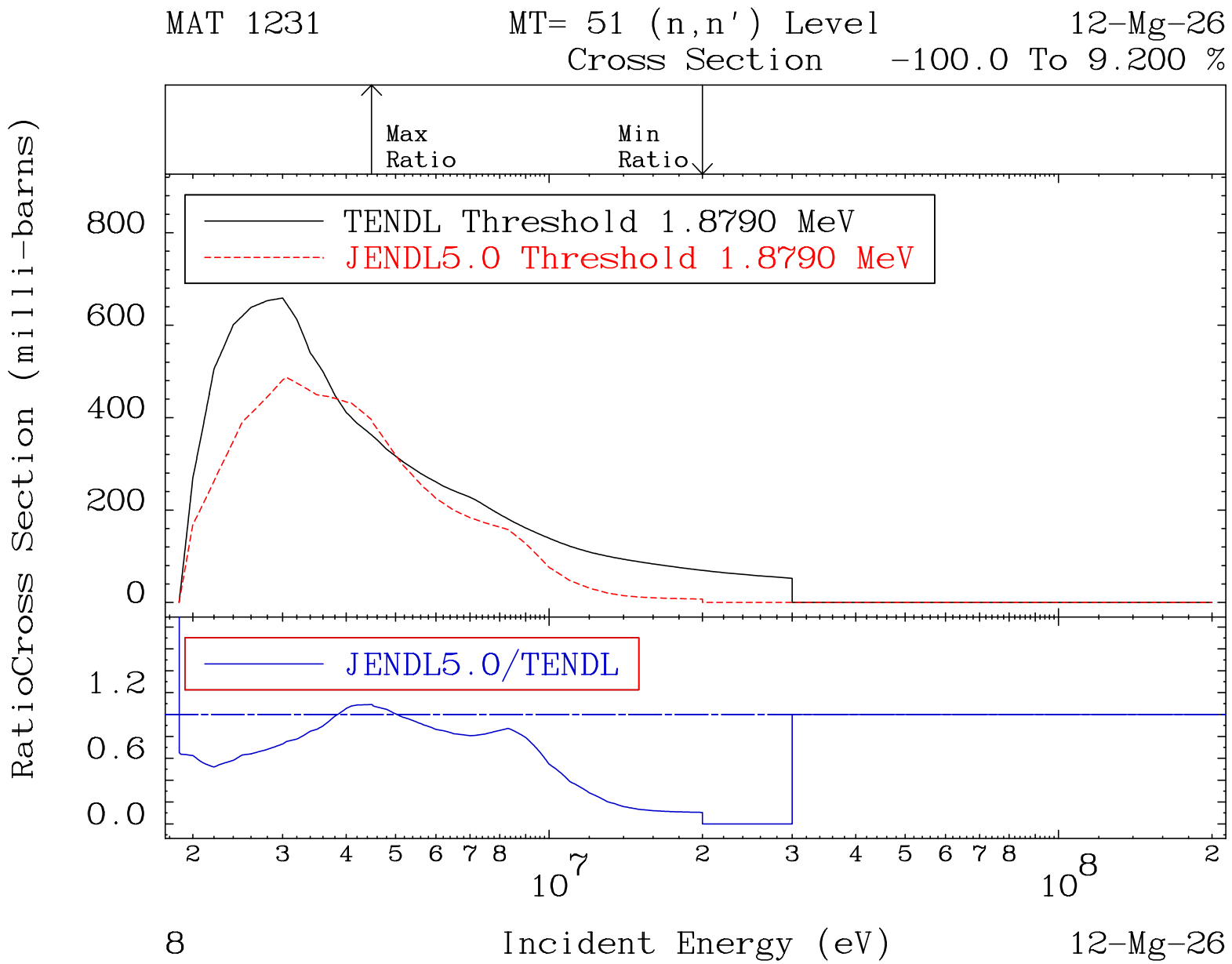

MAT 1231
Inelastic
Cross Section
12-Mg-26
-100.0 To 11.08 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.8790 MeV
JENDL5.0 Threshold 1.8790 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
12-Mg-26

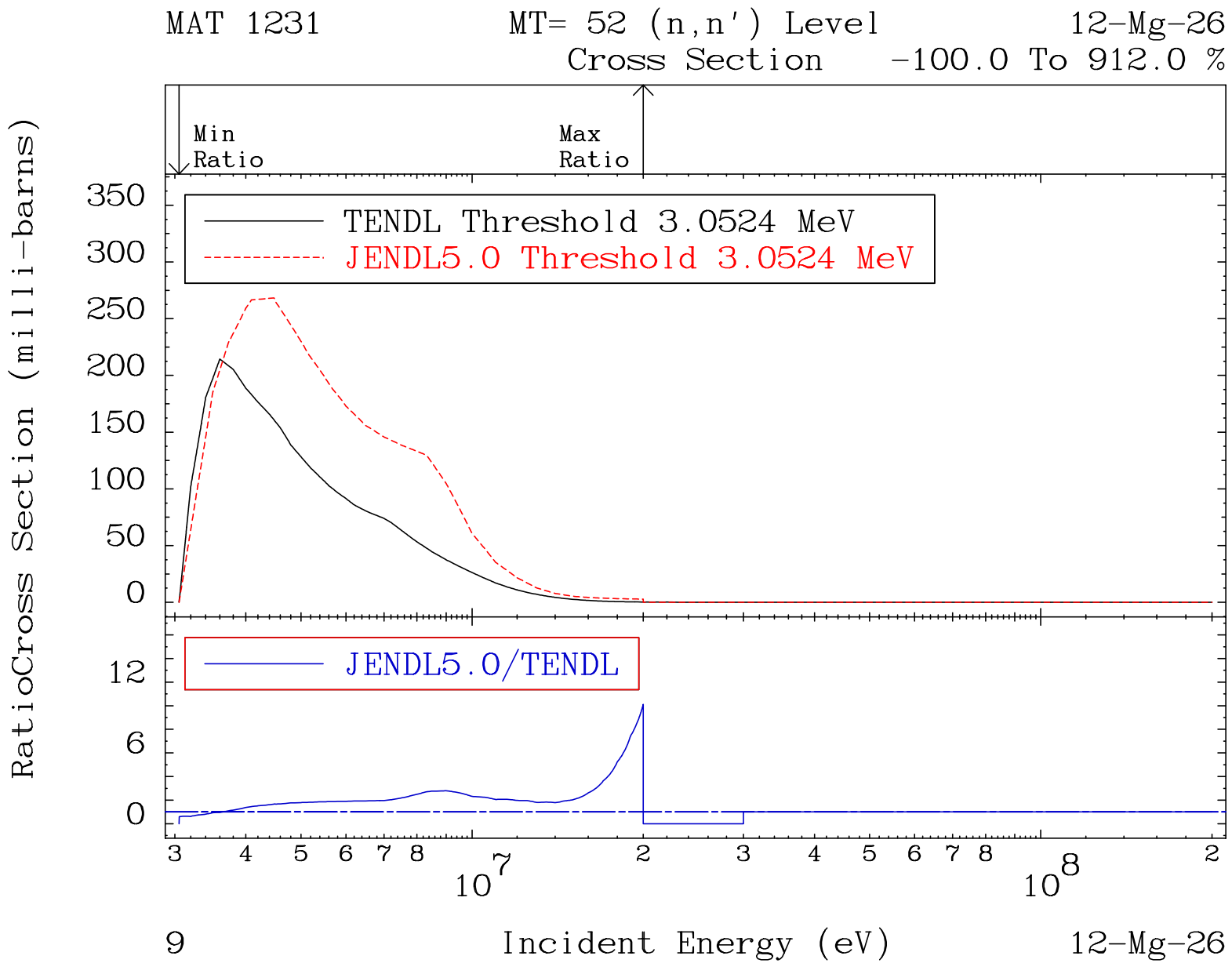

MAT 1231
(n,remainder)
Cross Section
12-Mg-26
-13.41 To 13.13 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
1.2
1.0
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
4
12-Mg-26

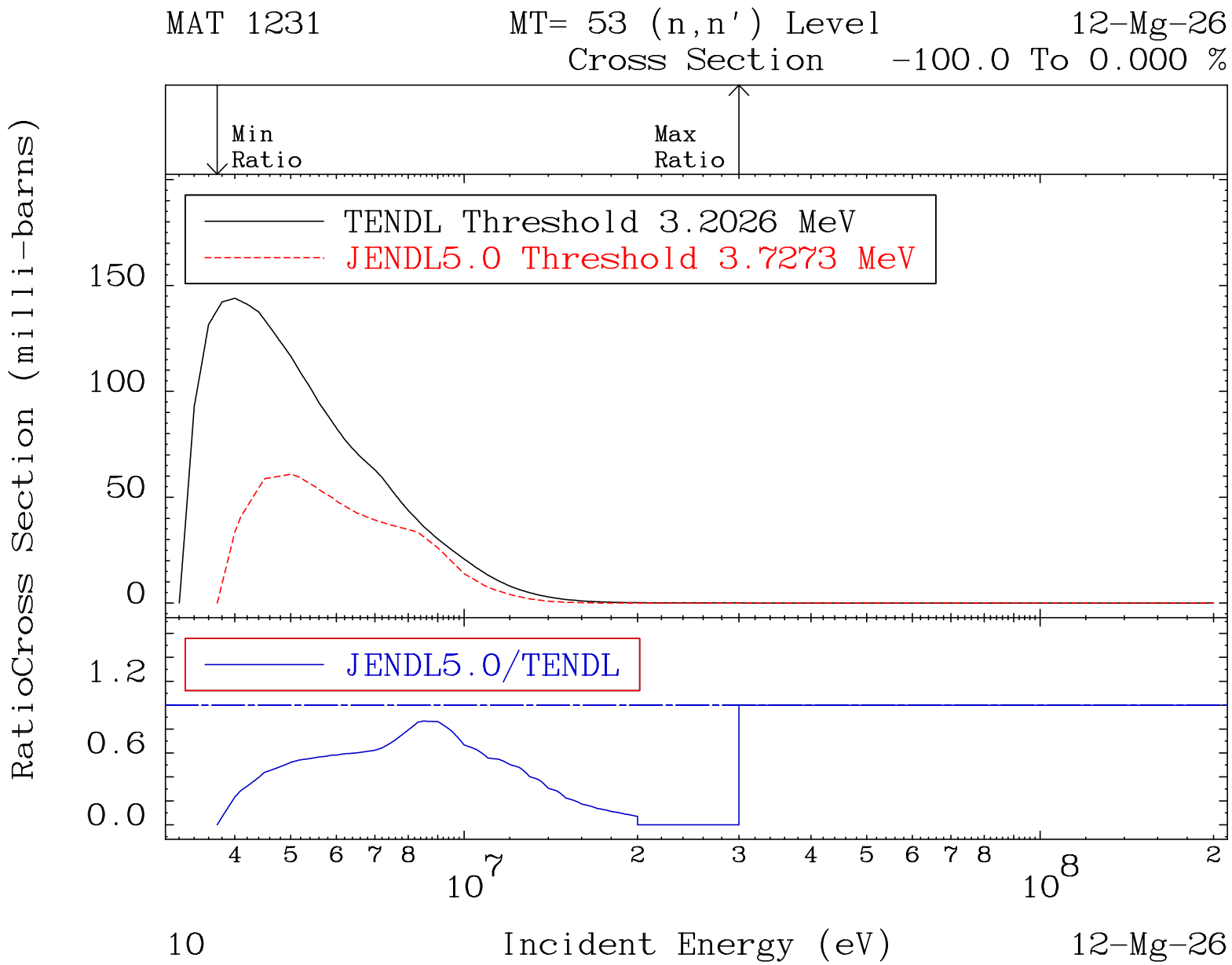

MAT 1231
(n,2n)
Cross Section
12-Mg-26
-100.0 To 69.53 %
Min Ratio
Max Ratio
TENDL Threshold 11.524 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
5
12-Mg-26

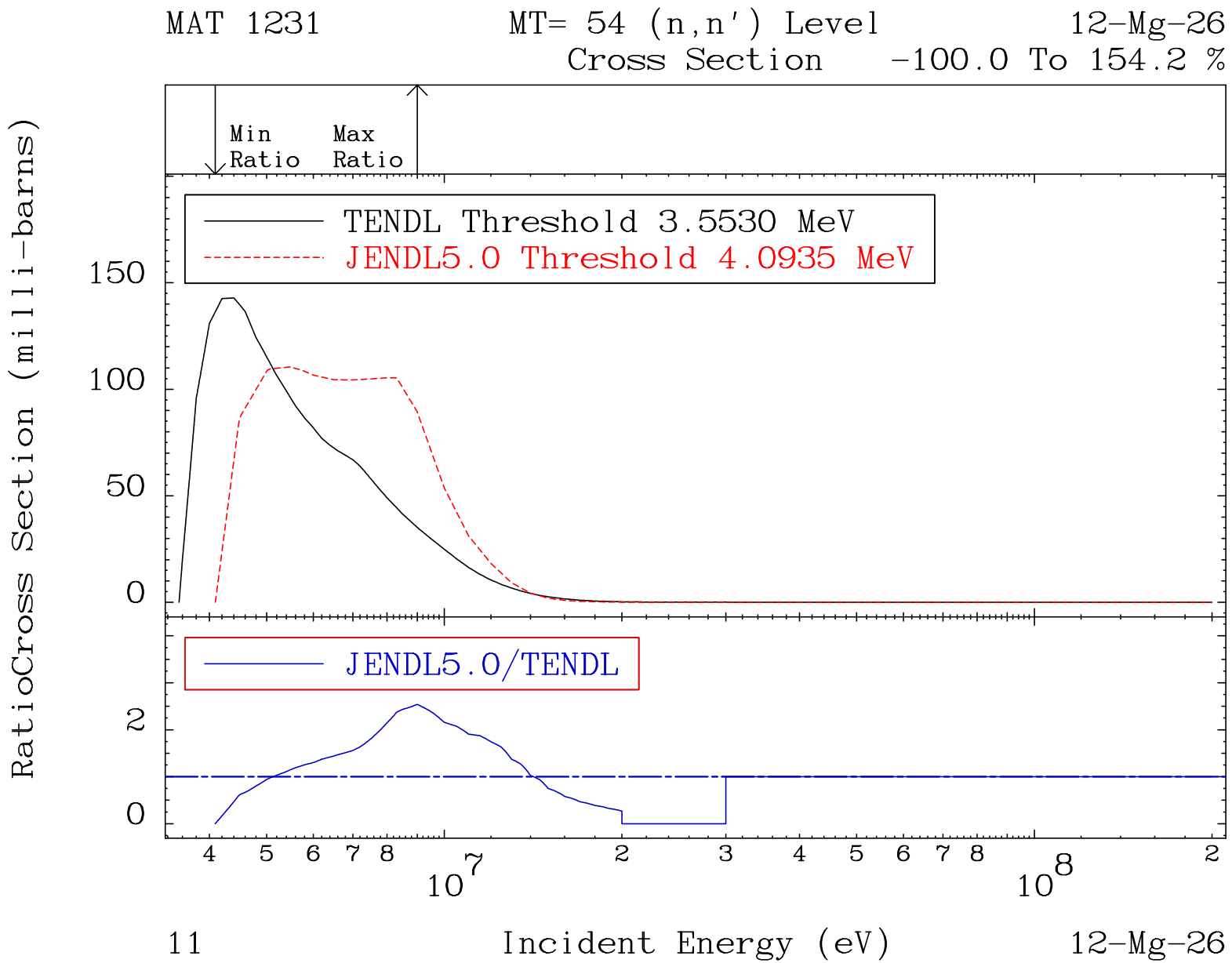

MAT 1231
(n,n') α
Cross Section
12-Mg-26
-100.0 To 121.1 %
Max
Ratio
TENDL Threshold 11.027 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
12-Mg-26

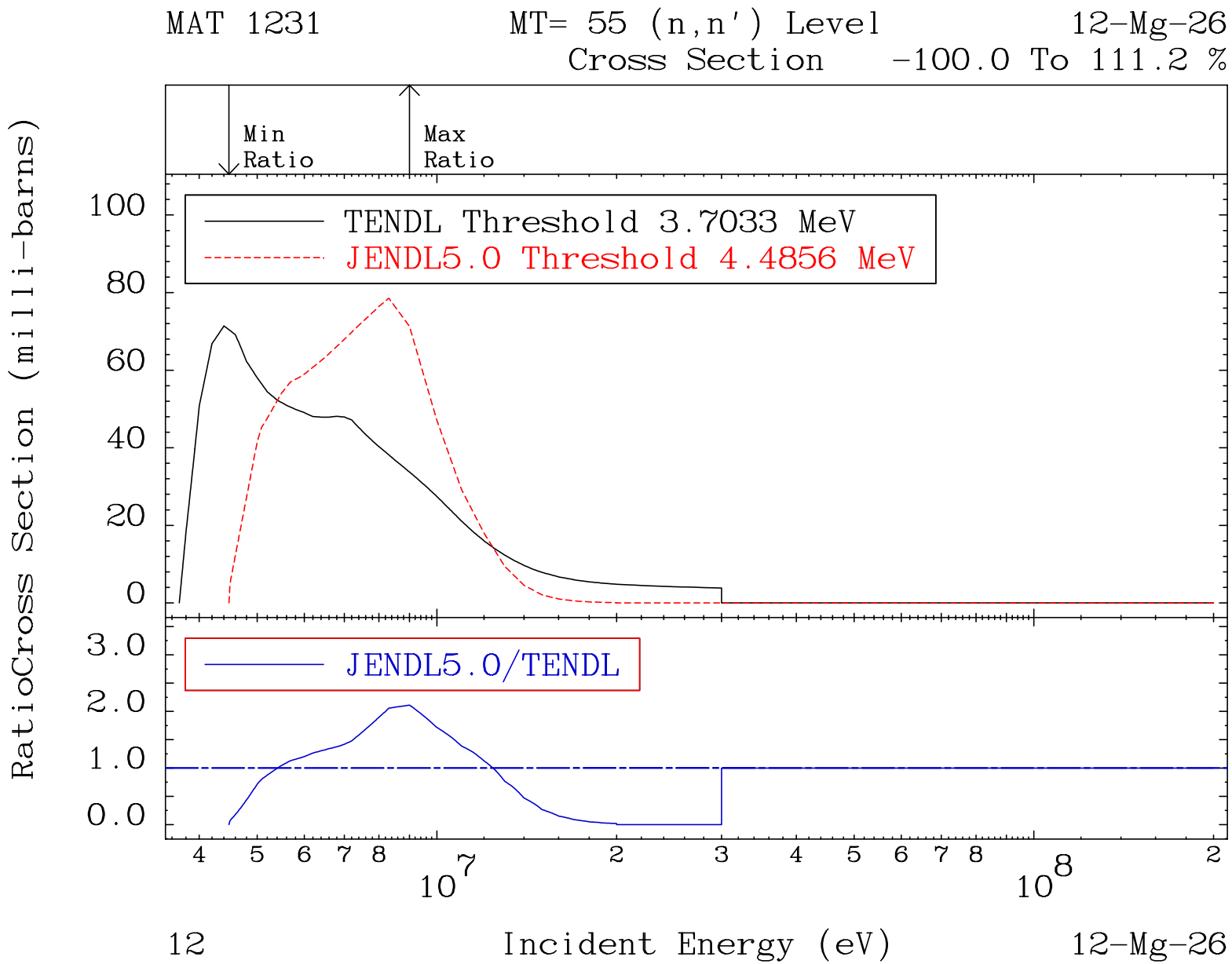

MAT 1231
(n,n') p
Cross Section
12-Mg-26
-100.0 To 115.4 %
Min Ratio
Max Ratio
TENDL Threshold 14.695 MeV
JENDL5.0 Threshold 15.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
12-Mg-26

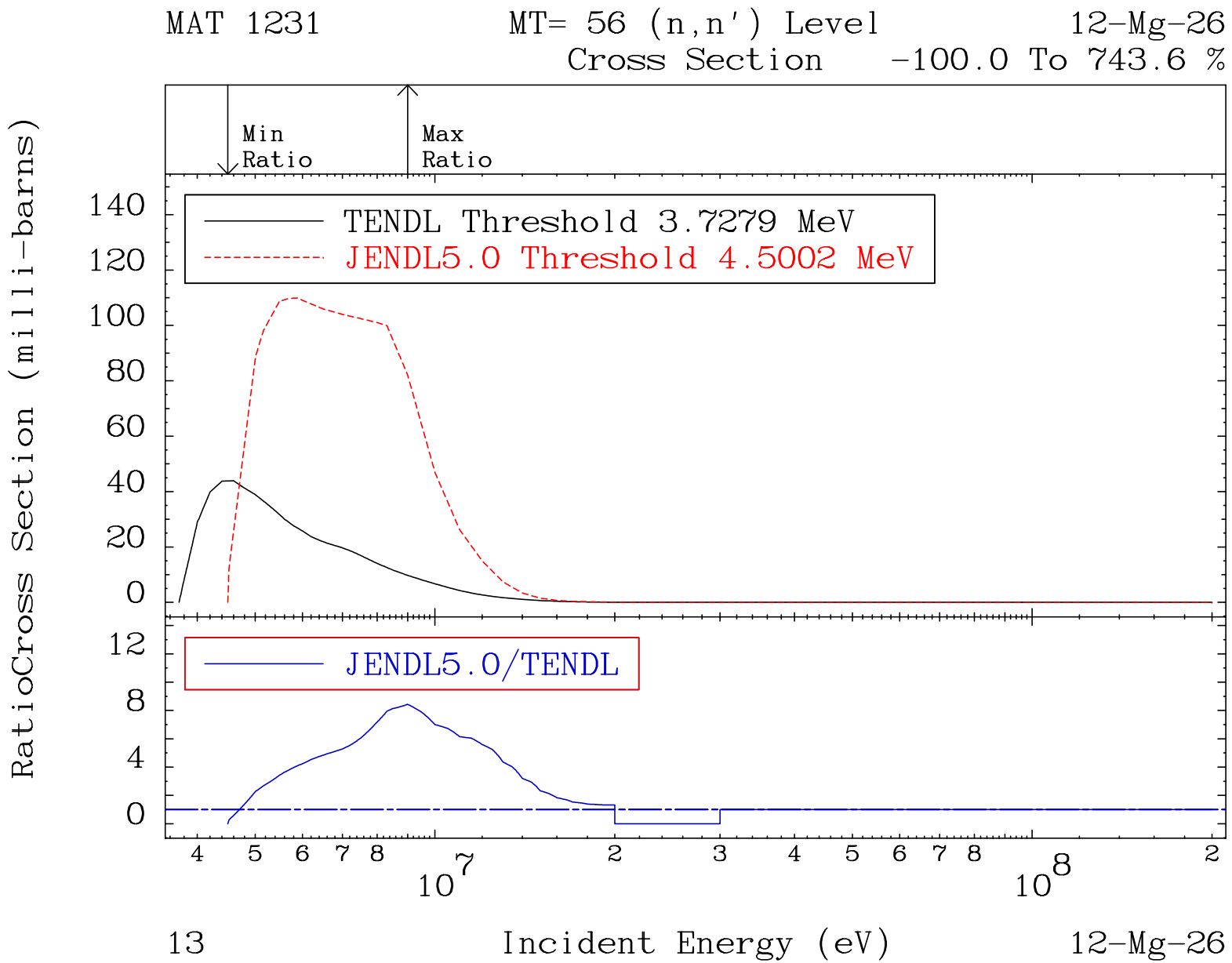

MAT 1231
MT= 51 (n,n') Level
12-Mg-26
Cross Section -100.0 To 9.200 %
Max Ratio
Min Ratio
TENDL Threshold 1.8790 MeV
JENDL5.0 Threshold 1.8790 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
12-Mg-26

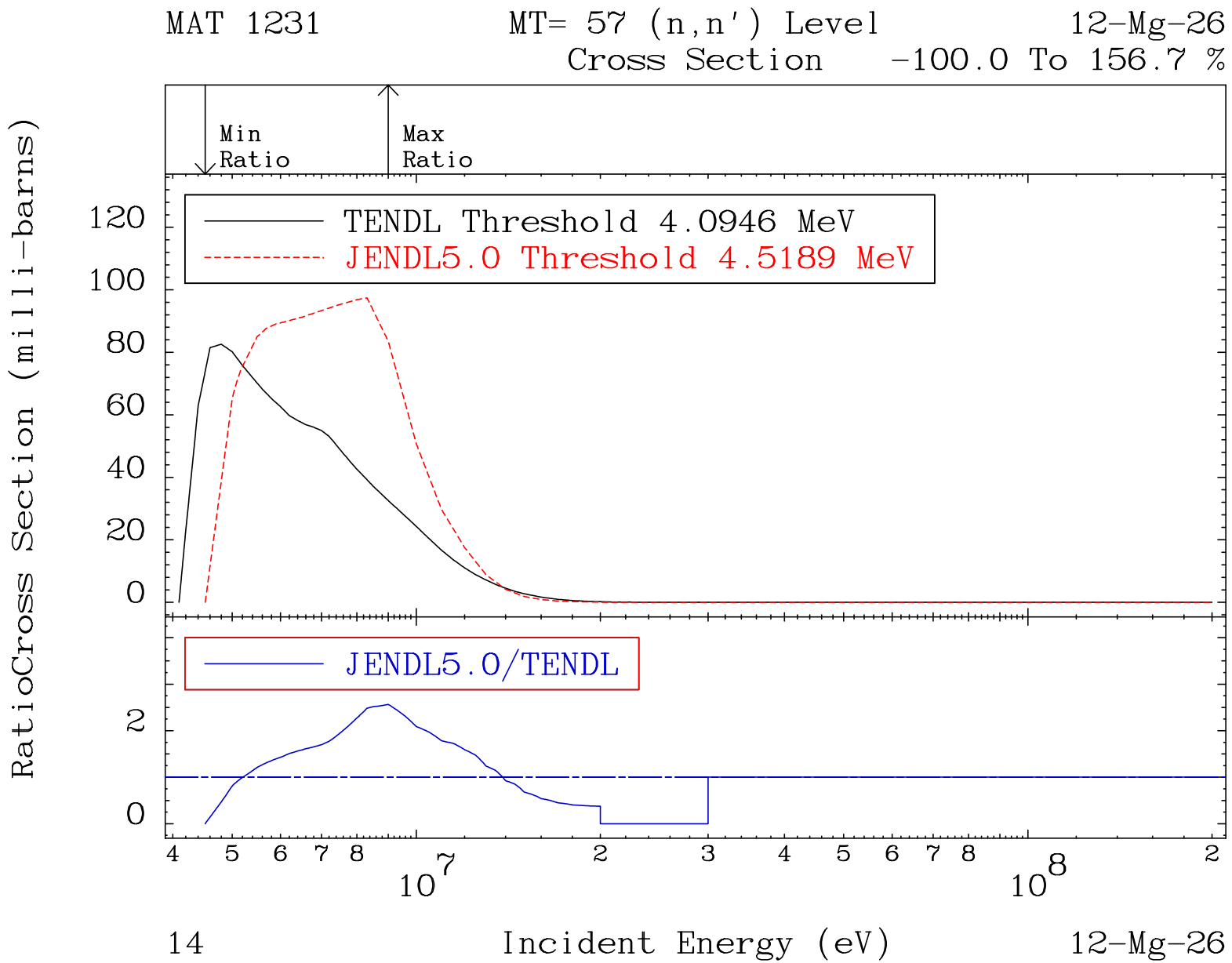

MAT 1231
MT= 52 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 912.0 %
Min Ratio
Max Ratio
TENDL Threshold 3.0524 MeV
JENDL5.0 Threshold 3.0524 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
12
6
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
9
Incident Energy (eV)
12-Mg-26

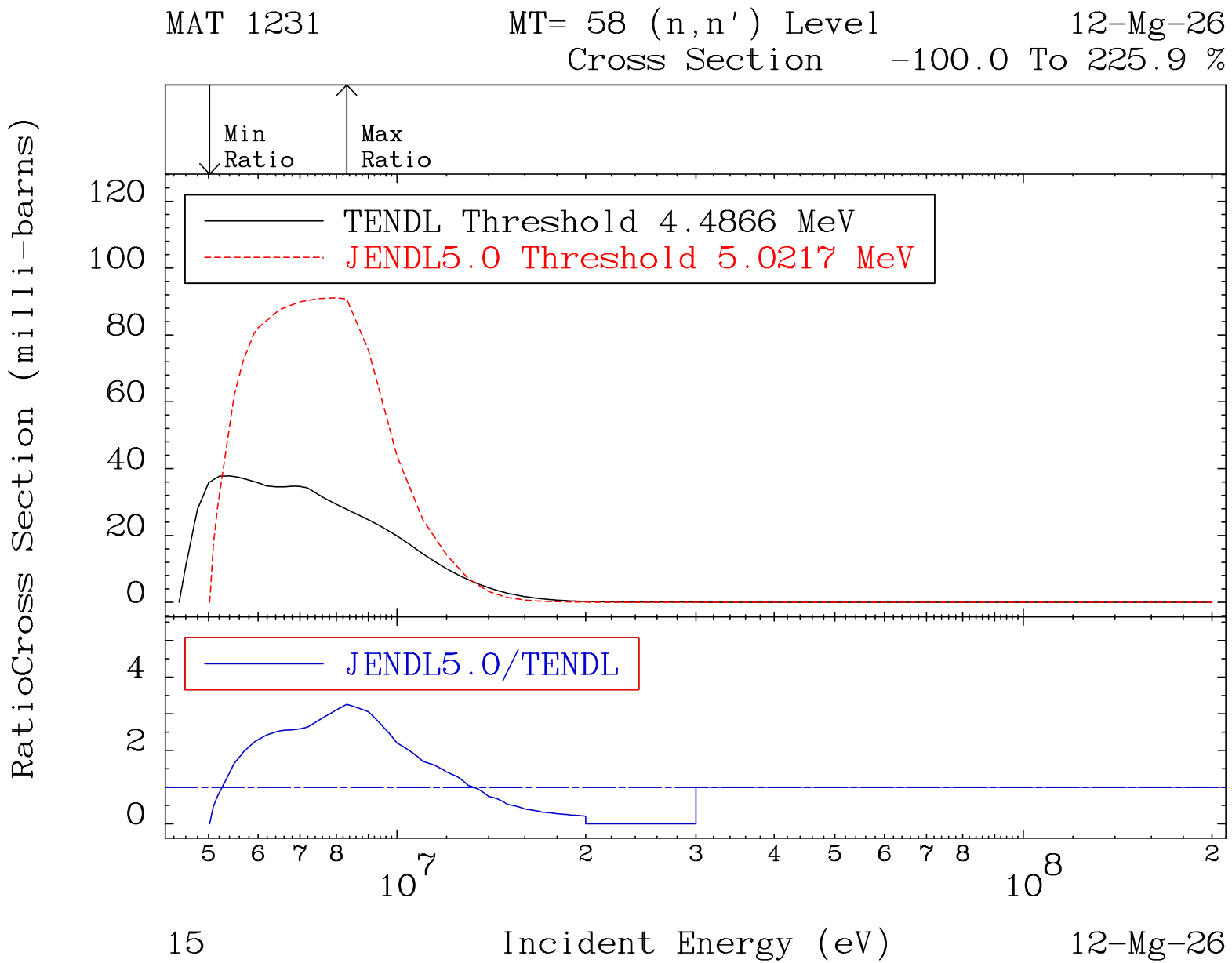

MAT 1231
MT= 53 (n,n') Level
12-Mg-26
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.2026 MeV
JENDL5.0 Threshold 3.7273 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
12-Mg-26

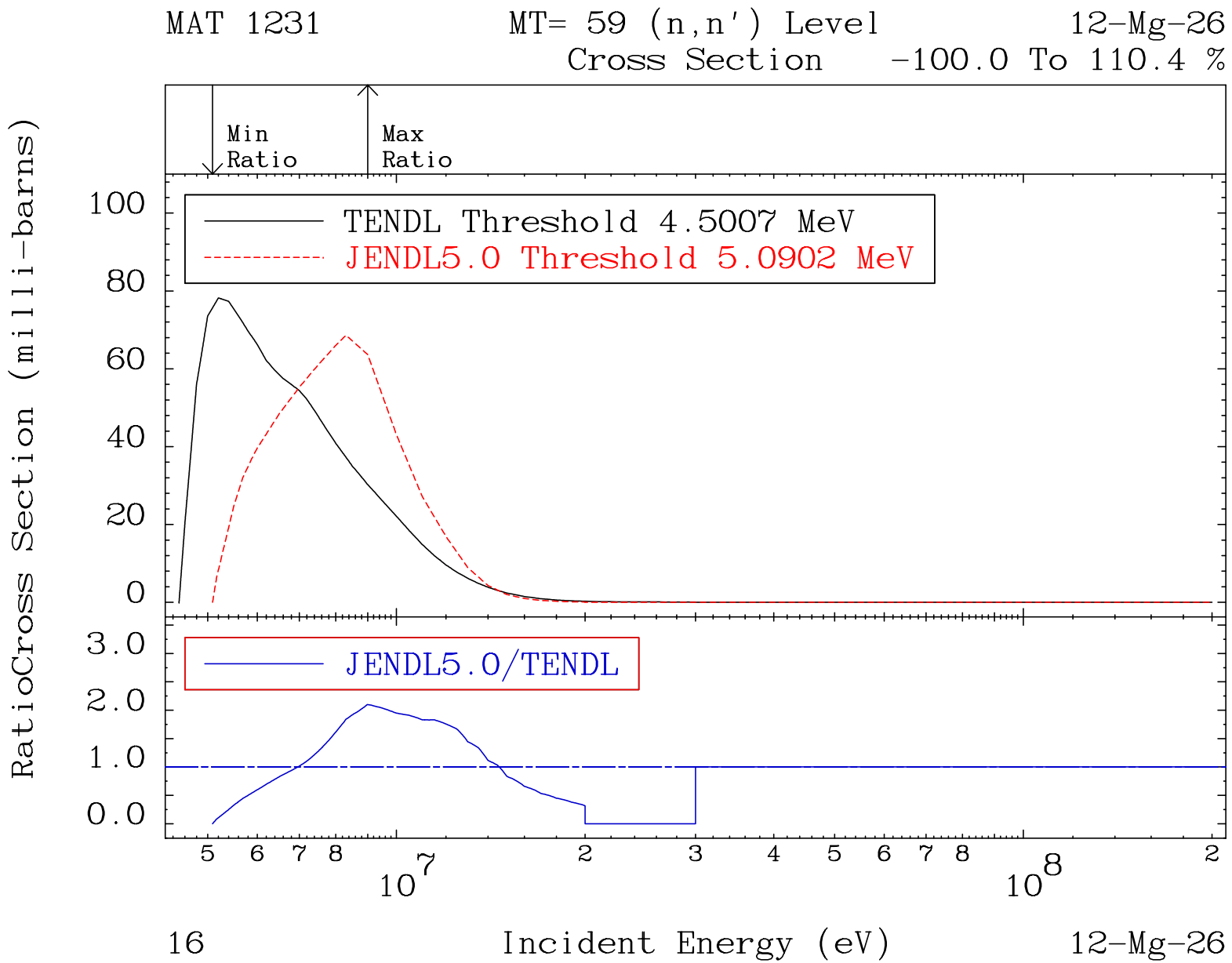

MAT 1231
MT= 54 (n,n') Level
12-Mg-26
Cross Section -100.0 To 154.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.5530 MeV
JENDL5.0 Threshold 4.0935 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
11
Incident Energy (eV)
12-Mg-26

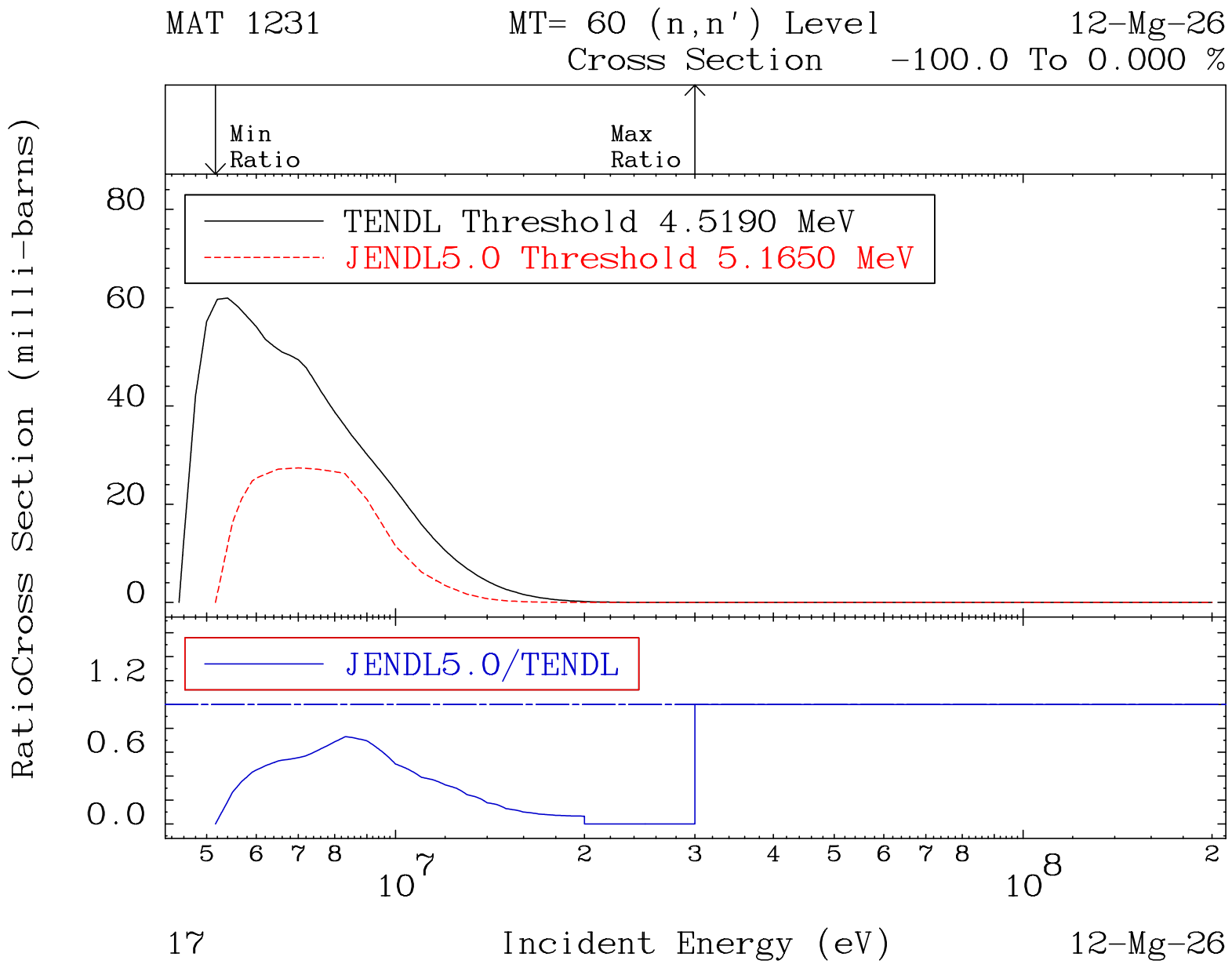

MAT 1231
MT= 55 (n,n') Level
12-Mg-26
Cross Section -100.0 To 111.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.7033 MeV
JENDL5.0 Threshold 4.4856 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
12-Mg-26

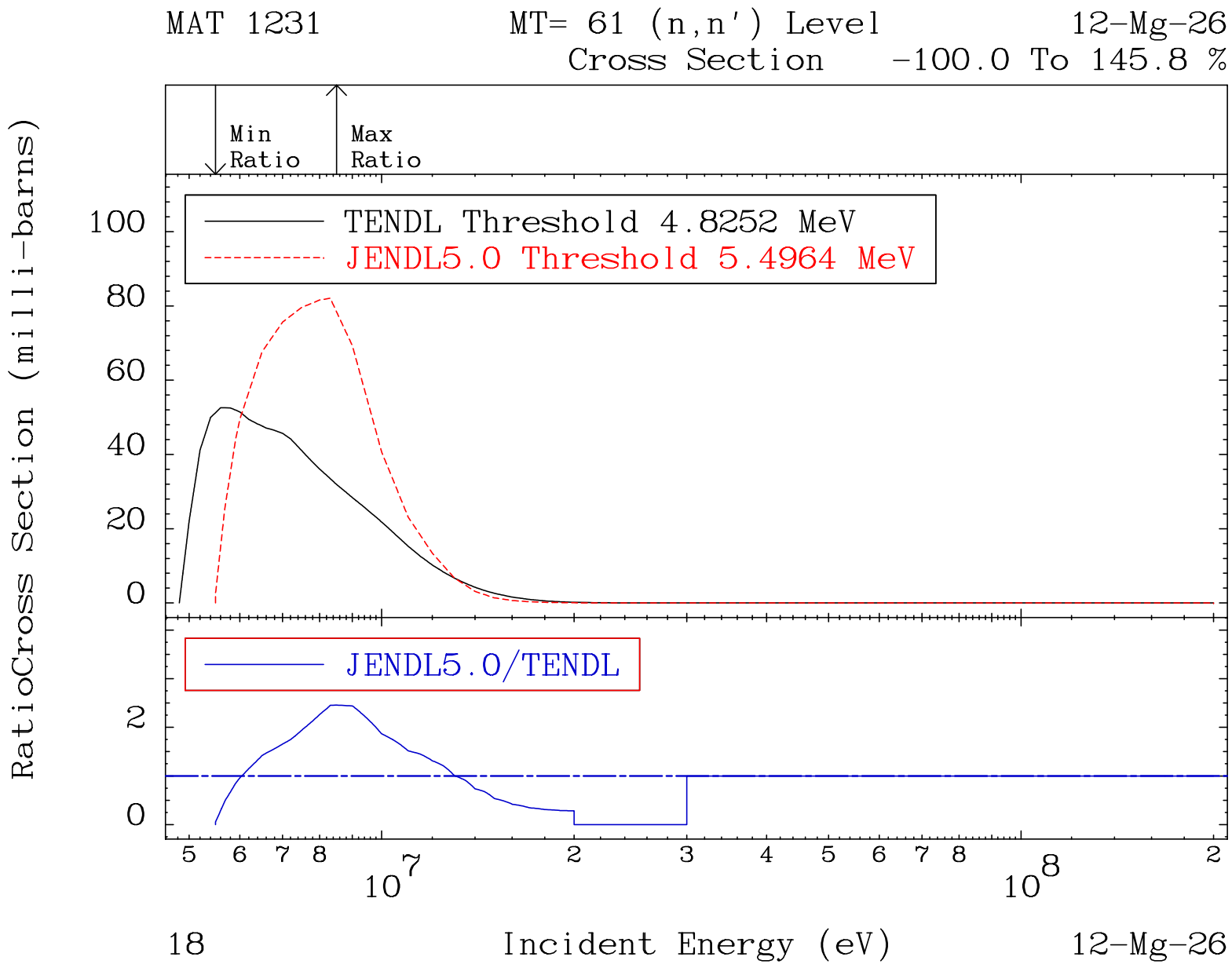

MAT 1231
MT= 56 (n,n') Level
12-Mg-26
Cross Section -100.0 To 743.6 %
Min Ratio
Max Ratio
TENDL Threshold 3.7279 MeV
JENDL5.0 Threshold 4.5002 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
8
4
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
12-Mg-26

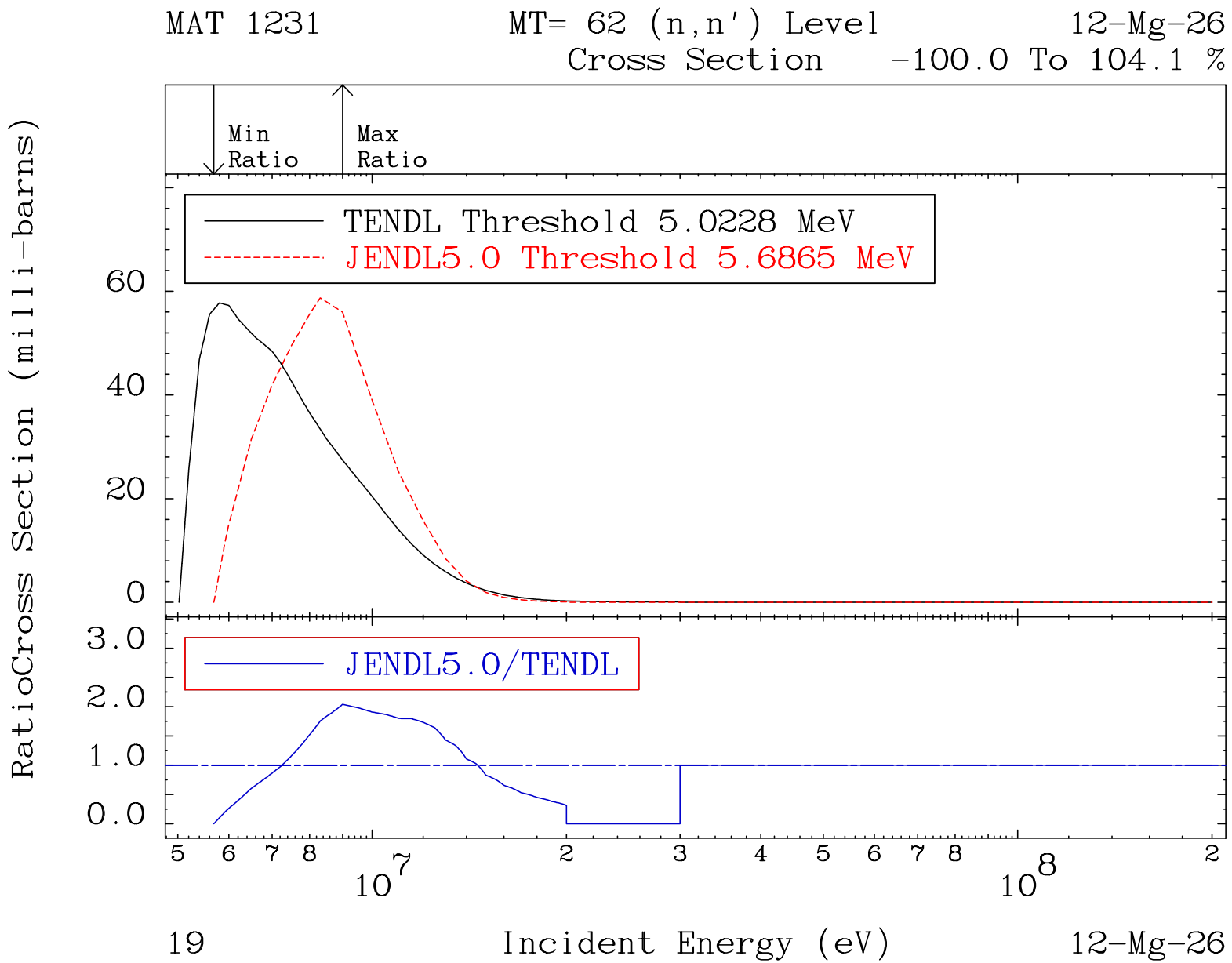

MAT 1231
MT= 57 (n,n') Level
12-Mg-26
Cross Section -100.0 To 156.7 %
Min Ratio
Max Ratio
TENDL Threshold 4.0946 MeV
JENDL5.0 Threshold 4.5189 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
14
Incident Energy (eV)
12-Mg-26

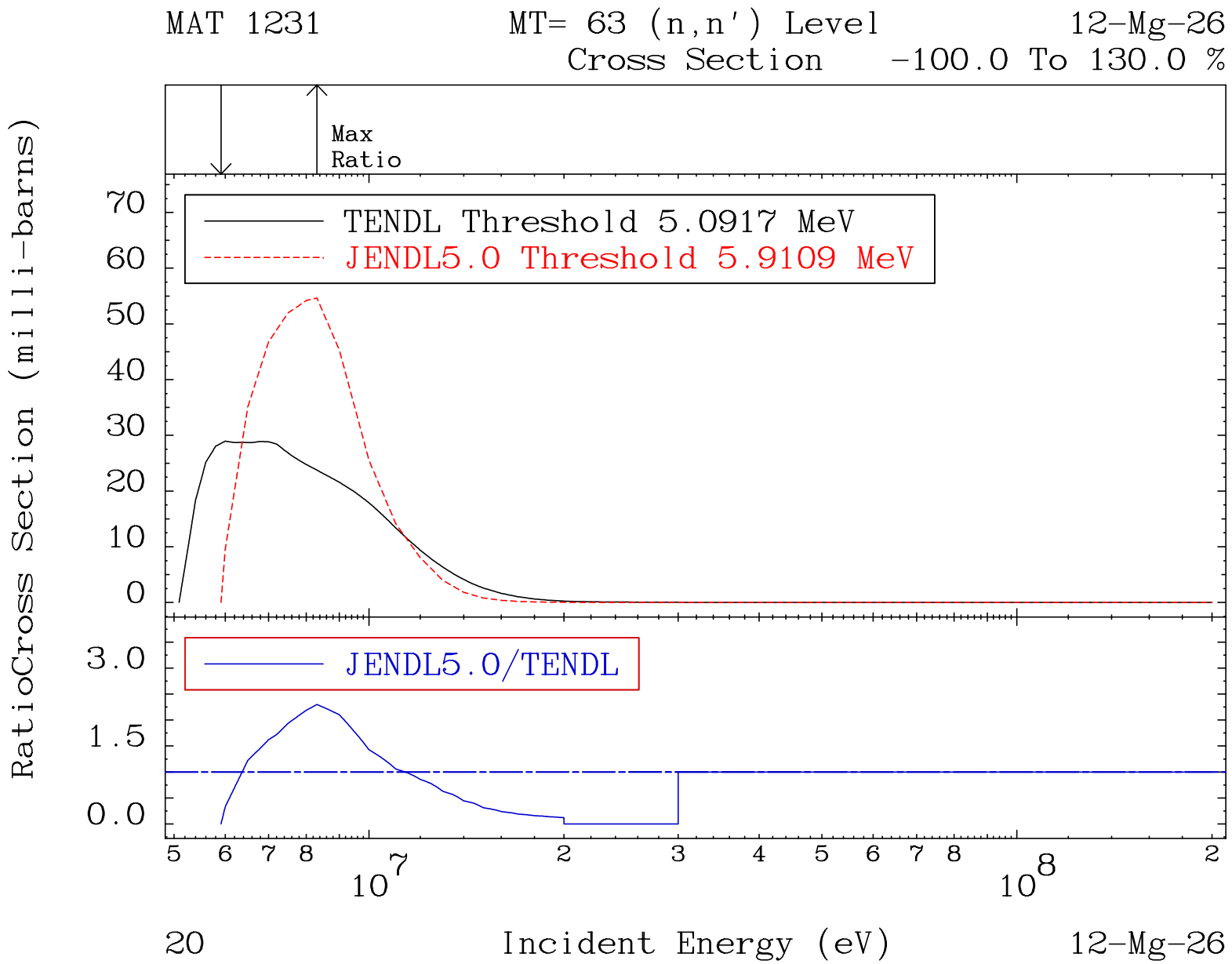

MAT 1231
MT= 58 (n,n') Level
12-Mg-26
Cross Section -100.0 To 225.9 %
Min Ratio
Max Ratio
TENDL Threshold 4.4866 MeV
JENDL5.0 Threshold 5.0217 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
4
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
12-Mg-26

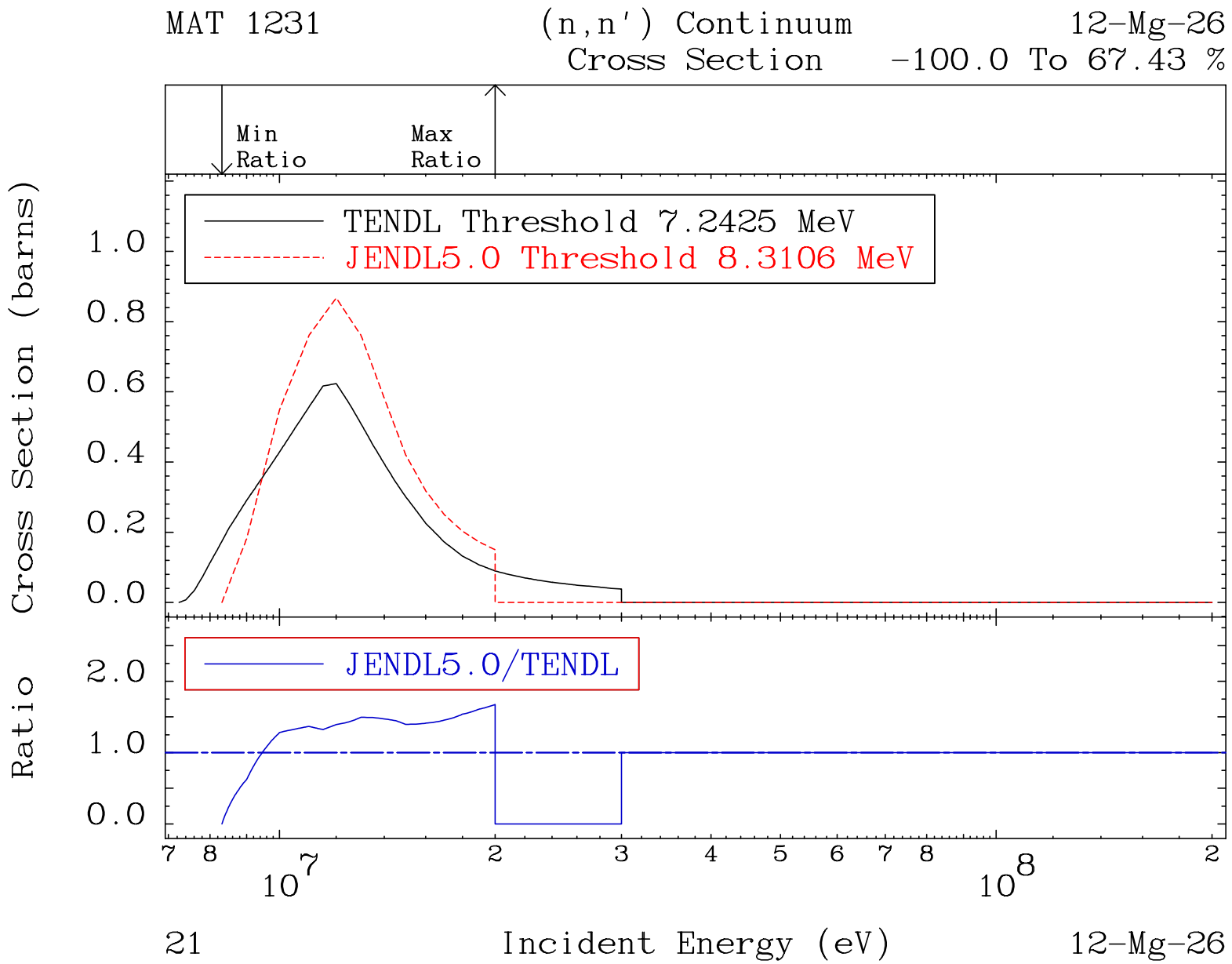

MAT 1231
MT= 59 (n,n') Level
12-Mg-26
Cross Section -100.0 To 110.4 %
Min Ratio
Max Ratio
TENDL Threshold 4.5007 MeV
JENDL5.0 Threshold 5.0902 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
12-Mg-26

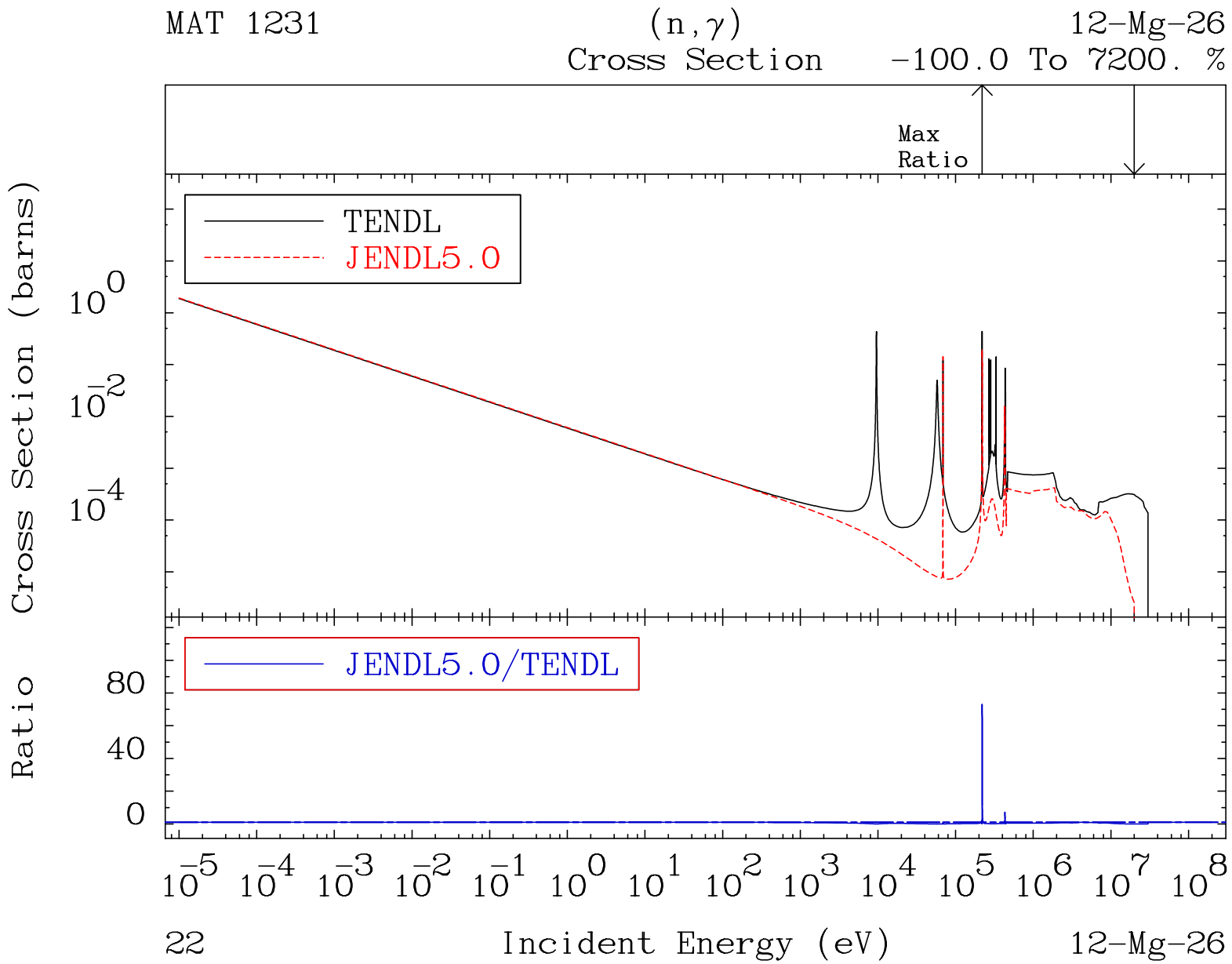

MAT 1231
MT= 60 (n,n') Level
12-Mg-26
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 4.5190 MeV
JENDL5.0 Threshold 5.1650 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
12-Mg-26

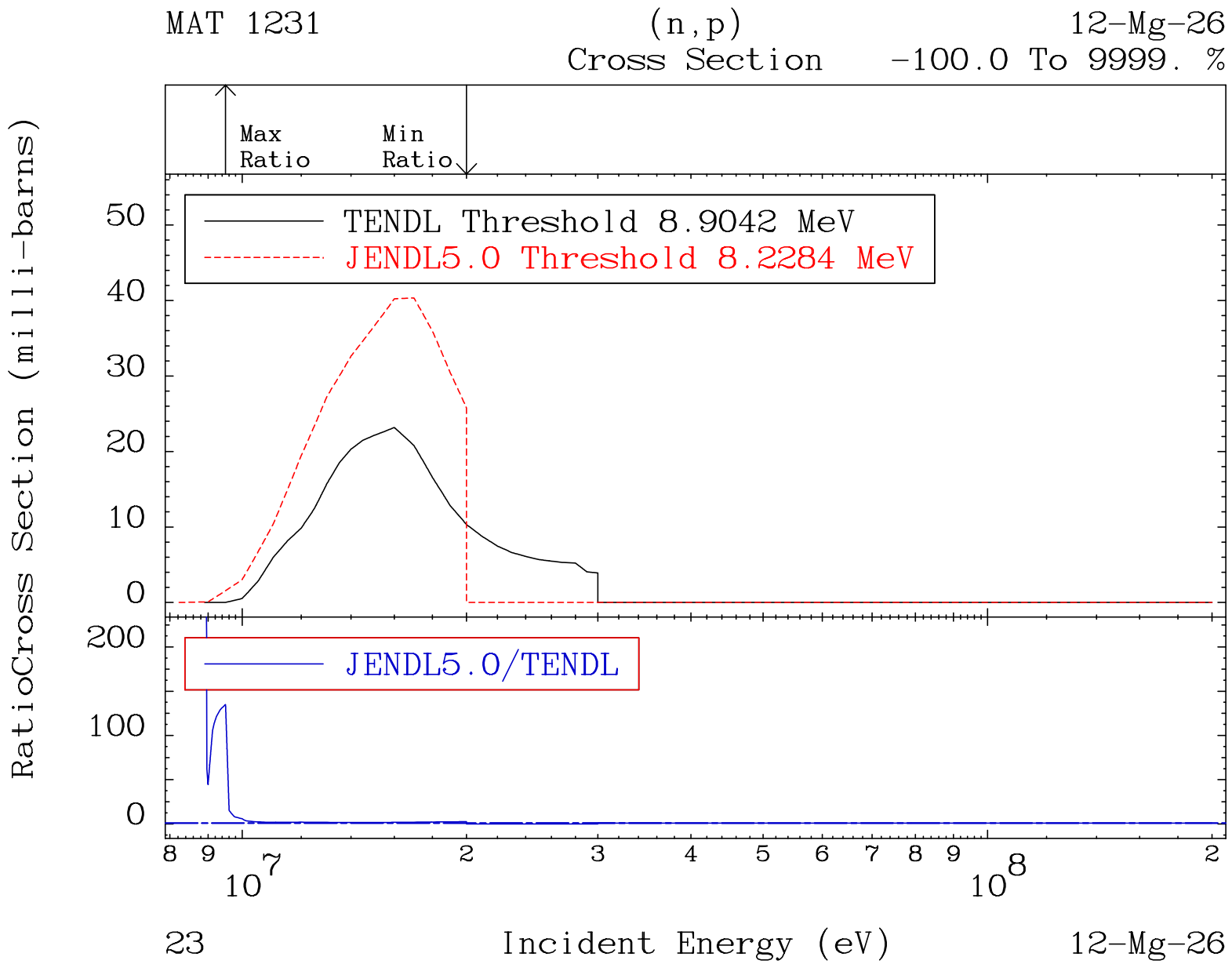

MAT 1231
MT= 61 (n,n') Level
12-Mg-26
Cross Section -100.0 To 145.8 %
Min Ratio
Max Ratio
TENDL Threshold 4.8252 MeV
JENDL5.0 Threshold 5.4964 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
12-Mg-26

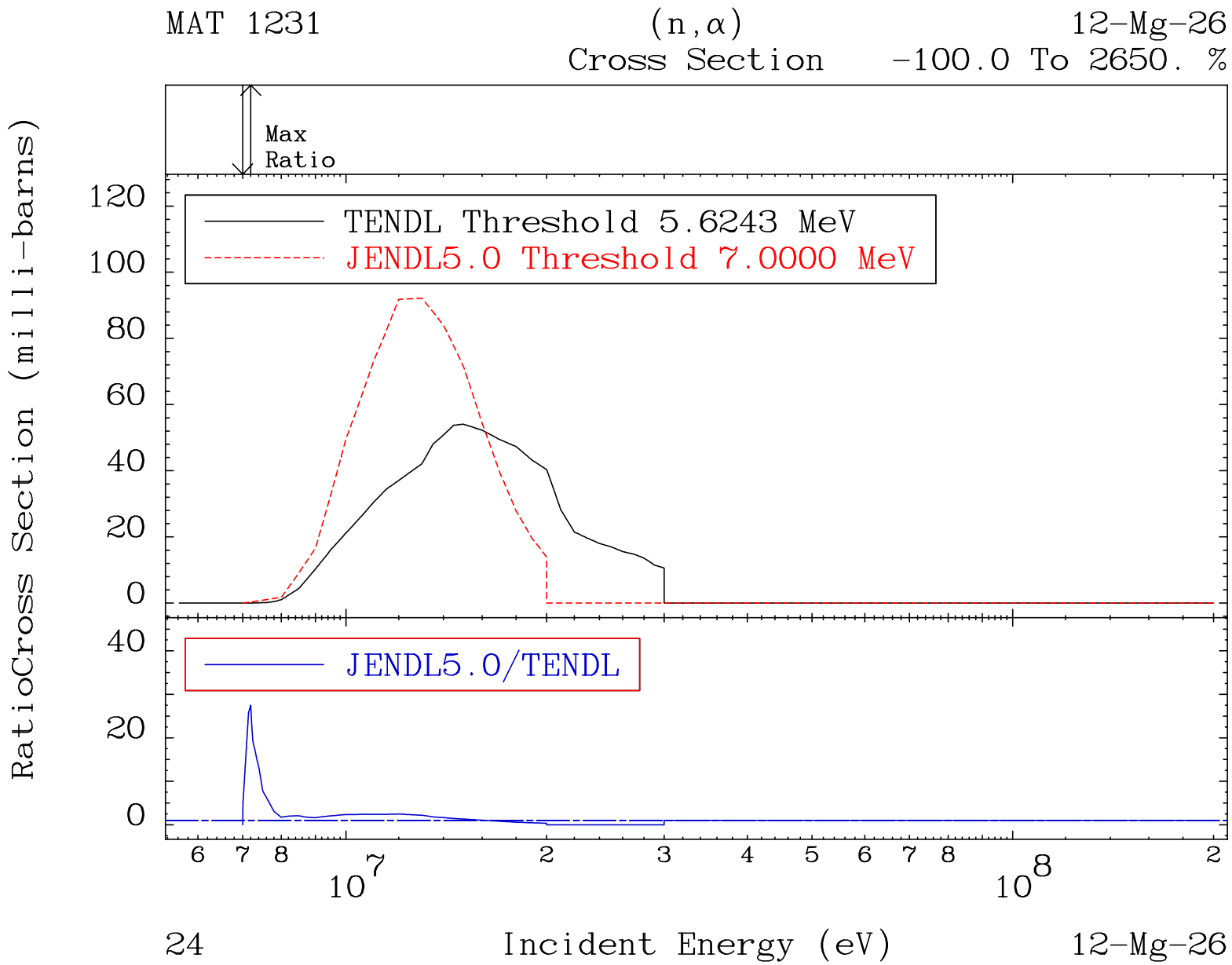

MAT 1231
MT= 62 (n,n') Level
12-Mg-26
Cross Section -100.0 To 104.1 %
Min Ratio
Max Ratio
TENDL Threshold 5.0228 MeV
JENDL5.0 Threshold 5.6865 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
3.0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
12-Mg-26

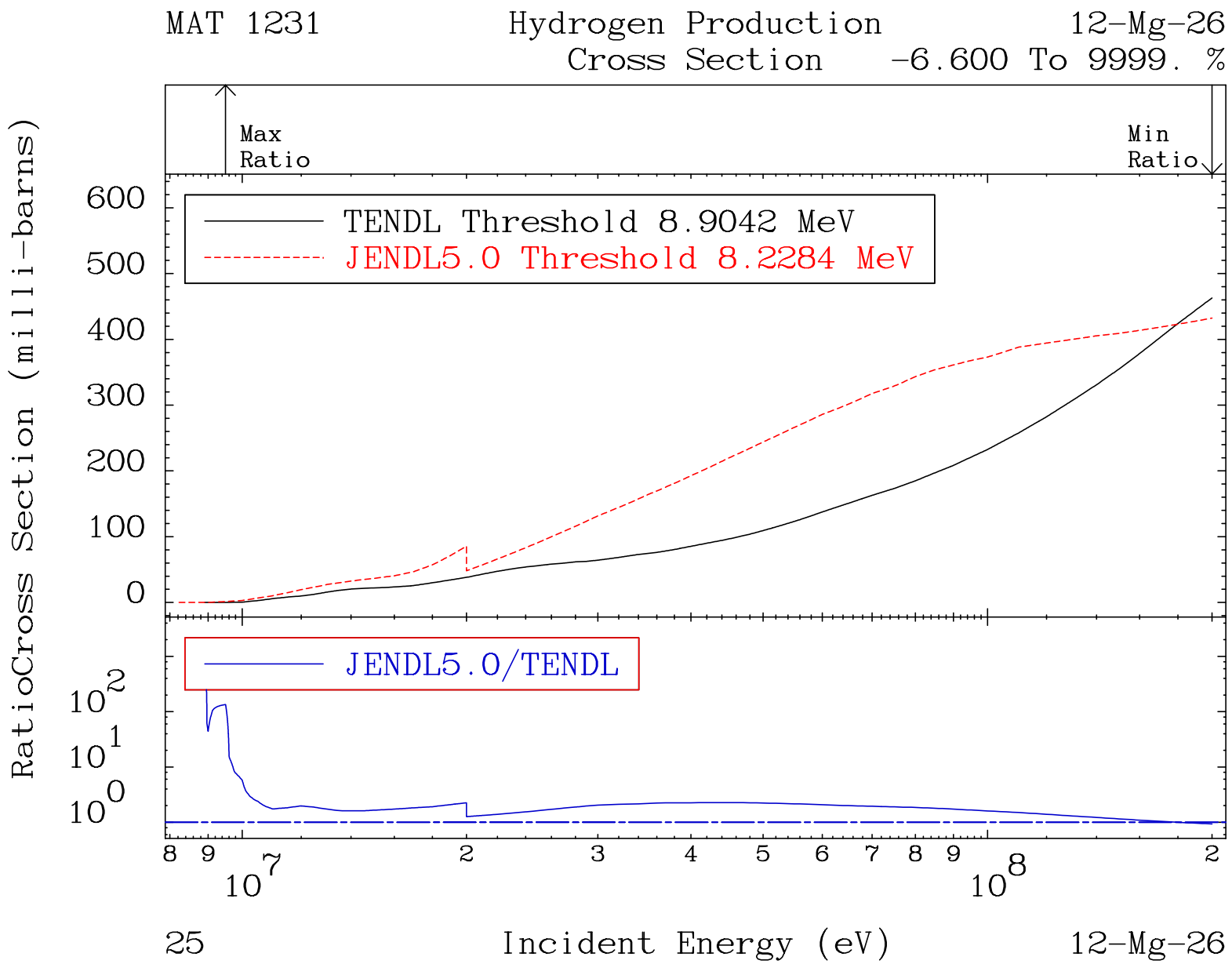

MAT 1231
MT= 63 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 130.0 %
Max
Ratio
TENDL Threshold 5.0917 MeV
JENDL5.0 Threshold 5.9109 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
3.0
1.5
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
12-Mg-26

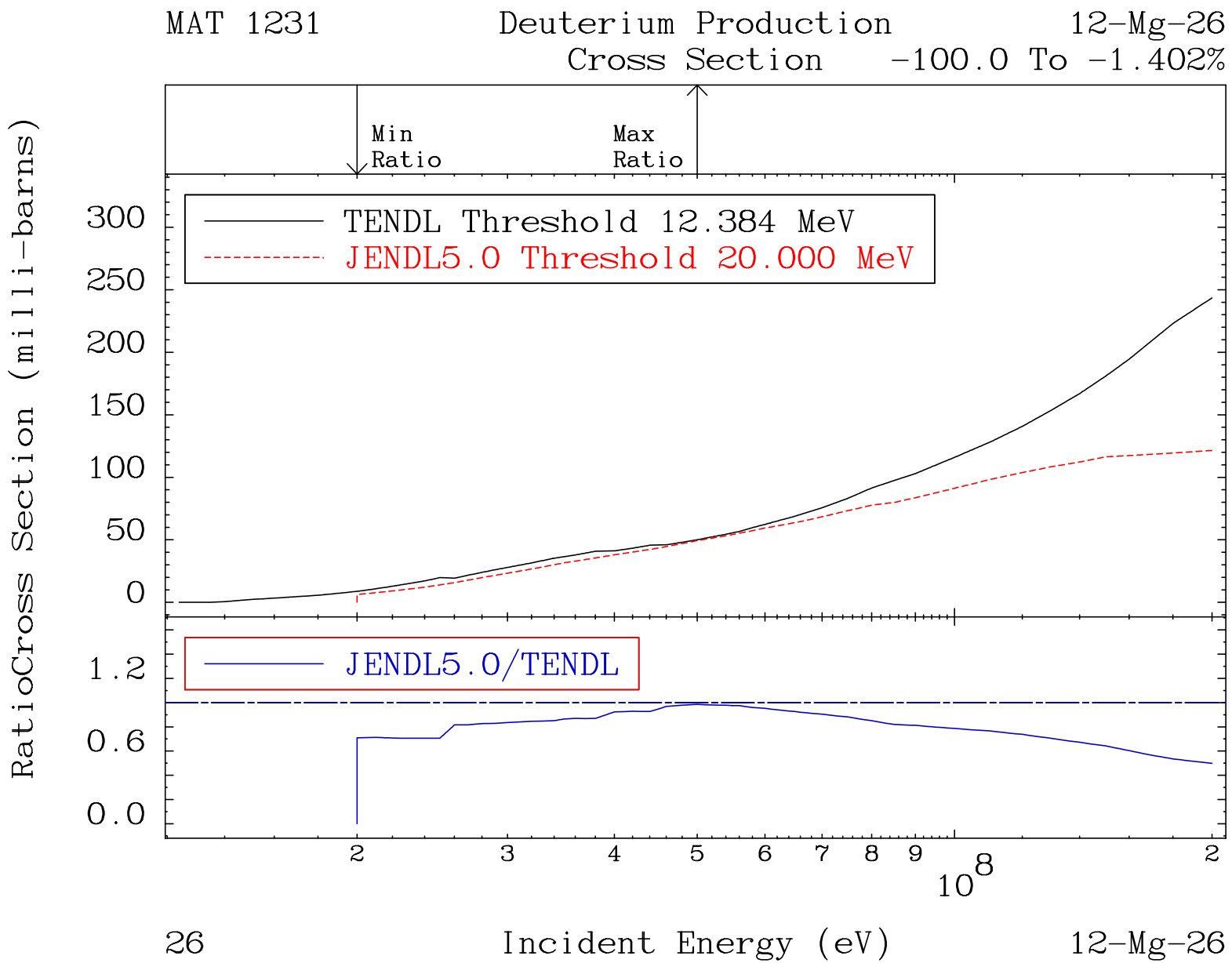

MAT 1231
(n,n') Continuum
Cross Section
12-Mg-26
-100.0 To 67.43 %
Min Ratio
Max Ratio
TENDL Threshold 7.2425 MeV
JENDL5.0 Threshold 8.3106 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
12-Mg-26

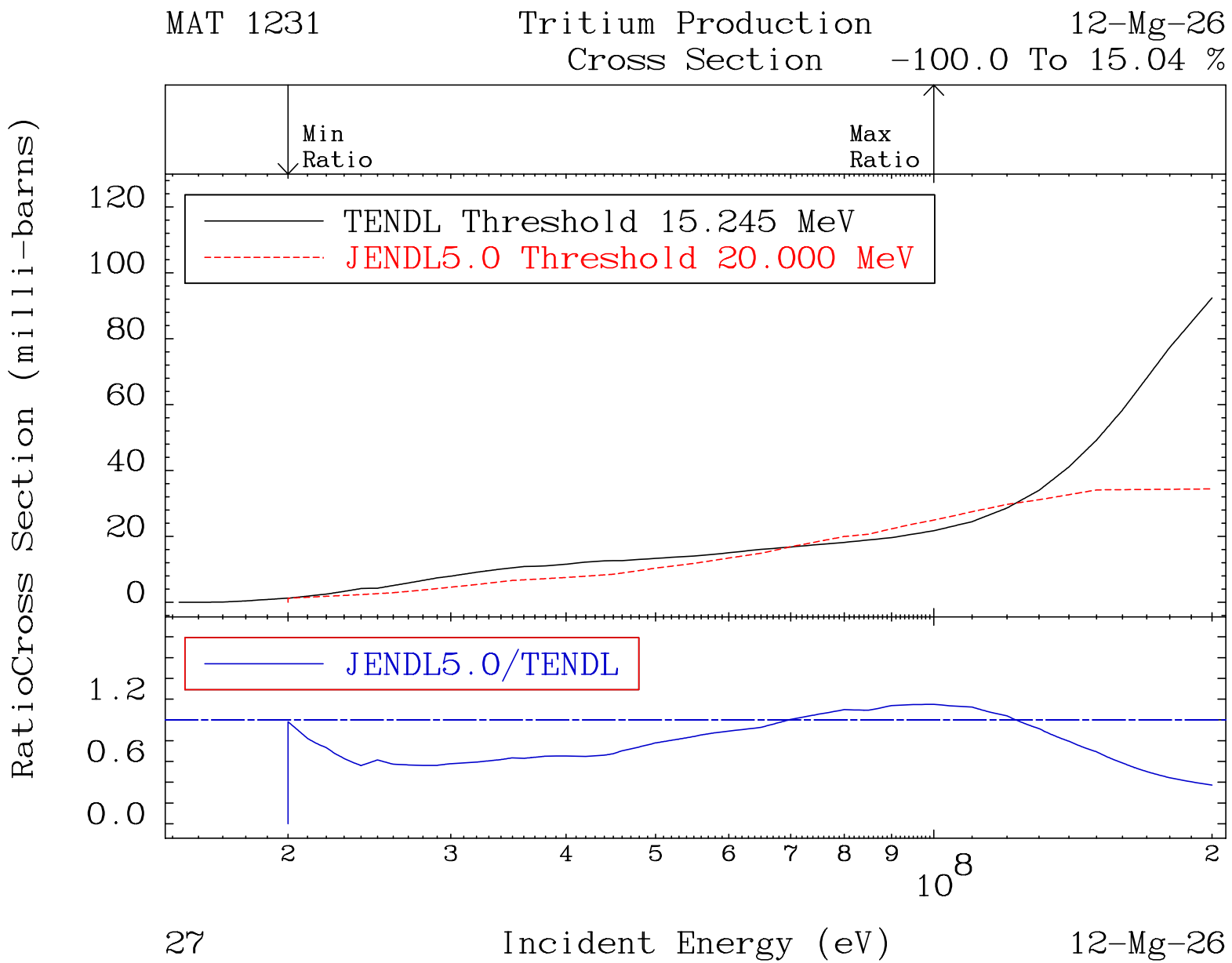

MAT 1231
(n,γ)
Cross Section
12-Mg-26
-100.0 To 7200. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^0
10^-2
10^-4
JENDL5.0/TENDL
Ratio
80
40
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
22
Incident Energy (eV)
12-Mg-26

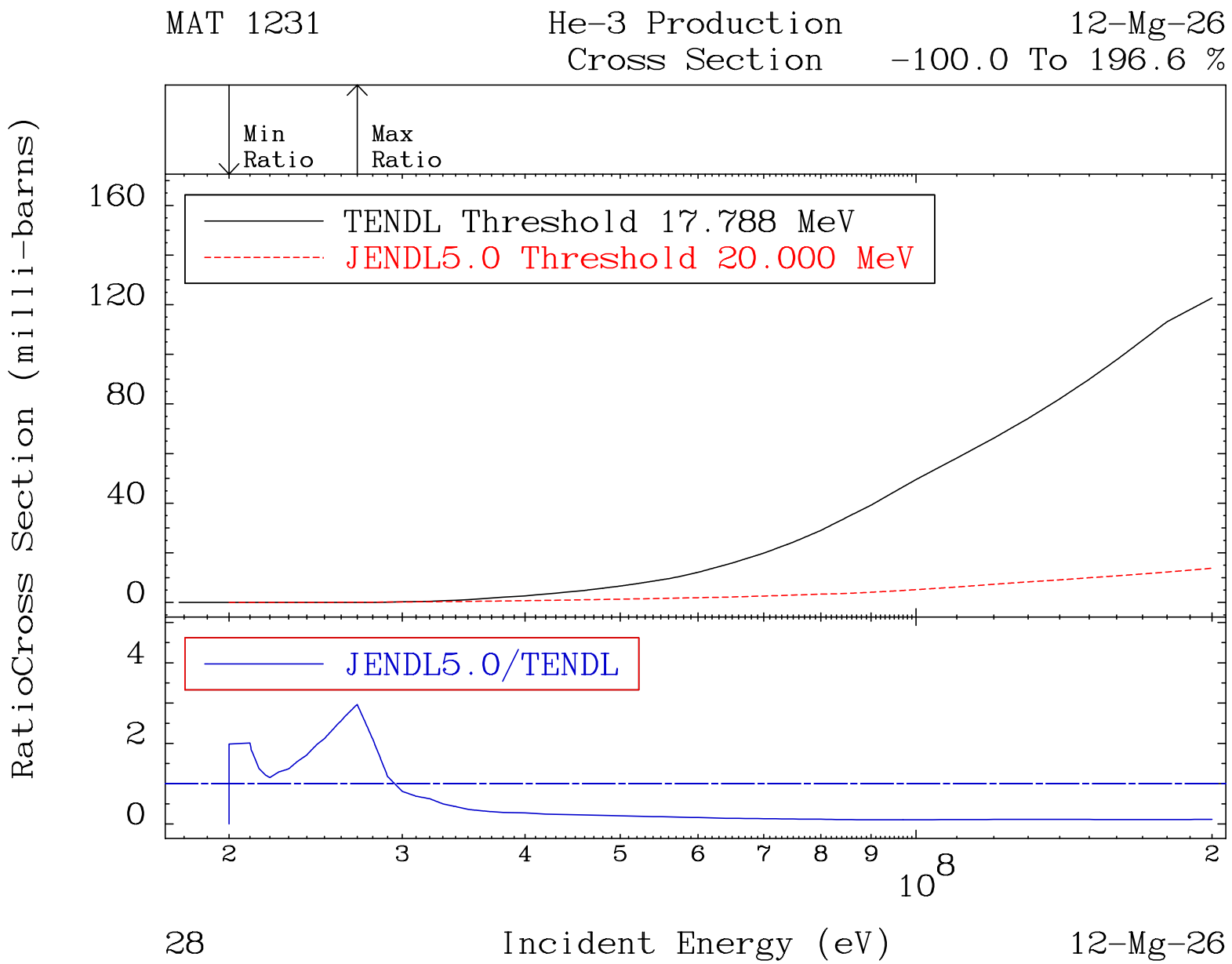

MAT 1231
(n,p)
12-Mg-26
Cross Section
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.9042 MeV
JENDL5.0 Threshold 8.2284 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
200
100
0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
12-Mg-26

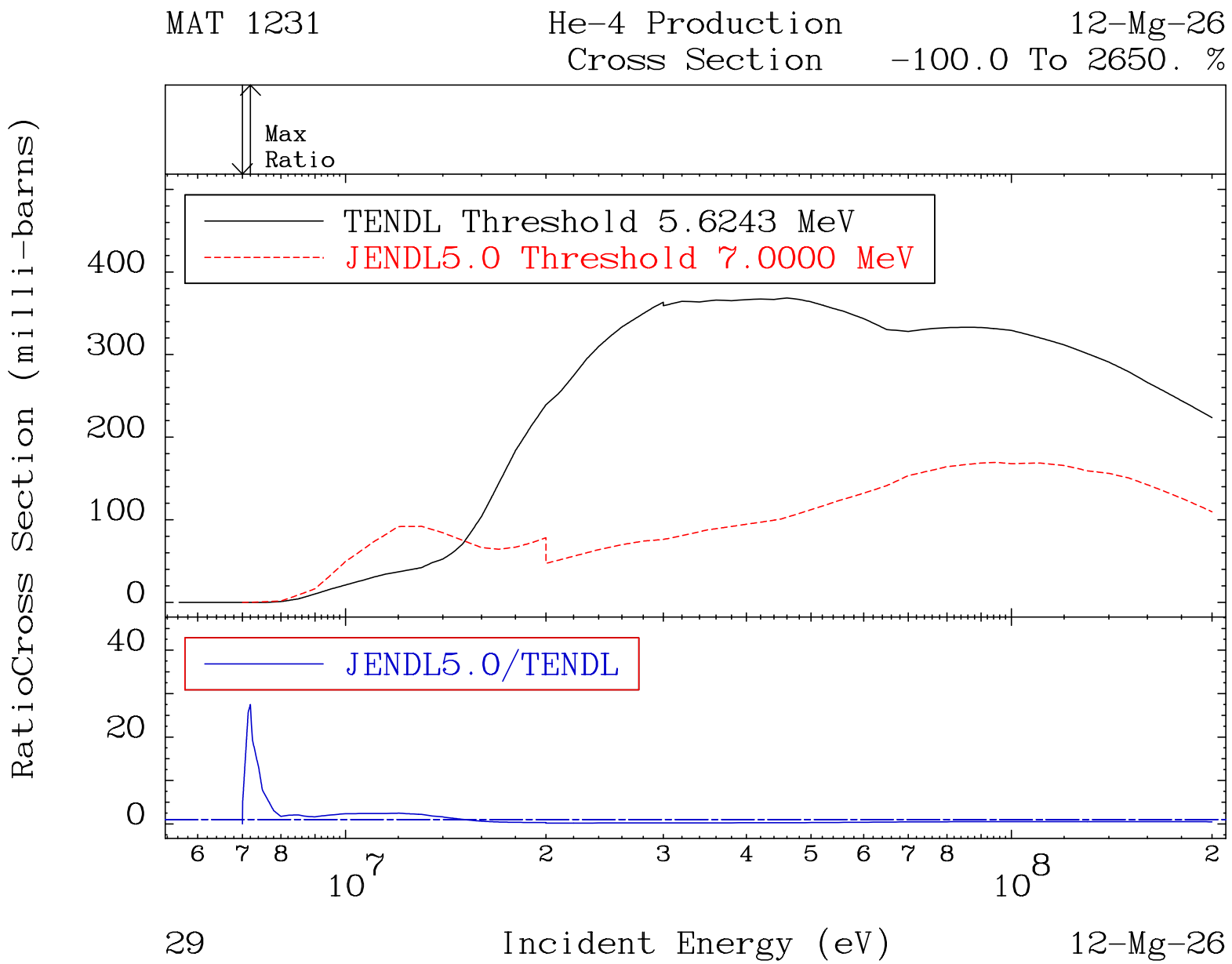

MAT 1231
(n,α)
12-Mg-26
Cross Section
-100.0 To 2650. %
Max
Ratio
TENDL Threshold 5.6243 MeV
JENDL5.0 Threshold 7.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
12-Mg-26

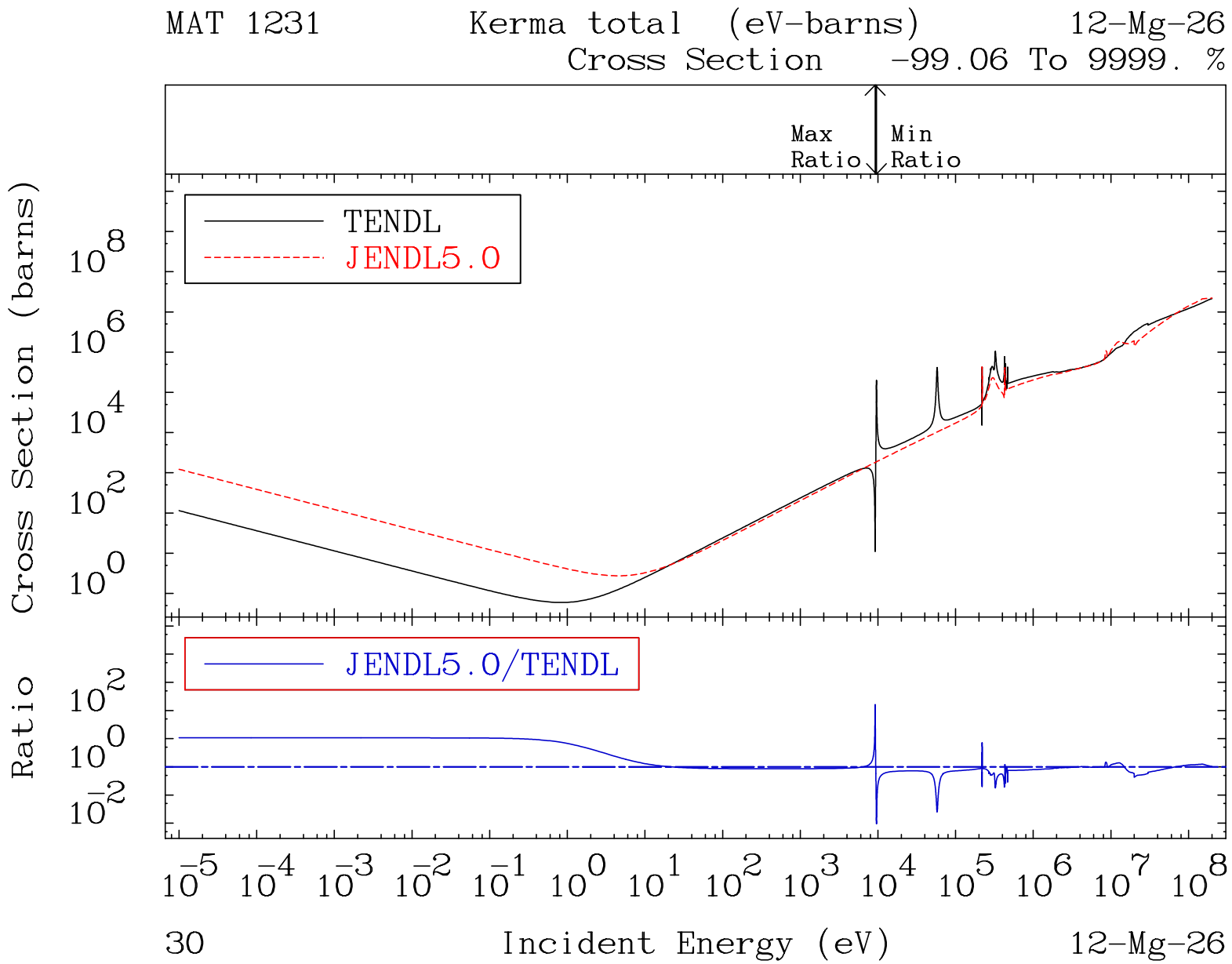

MAT 1231
Hydrogen Production
12-Mg-26
Cross Section
-6.600 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.9042 MeV
JENDL5.0 Threshold 8.2284 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
10^2
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
12-Mg-26

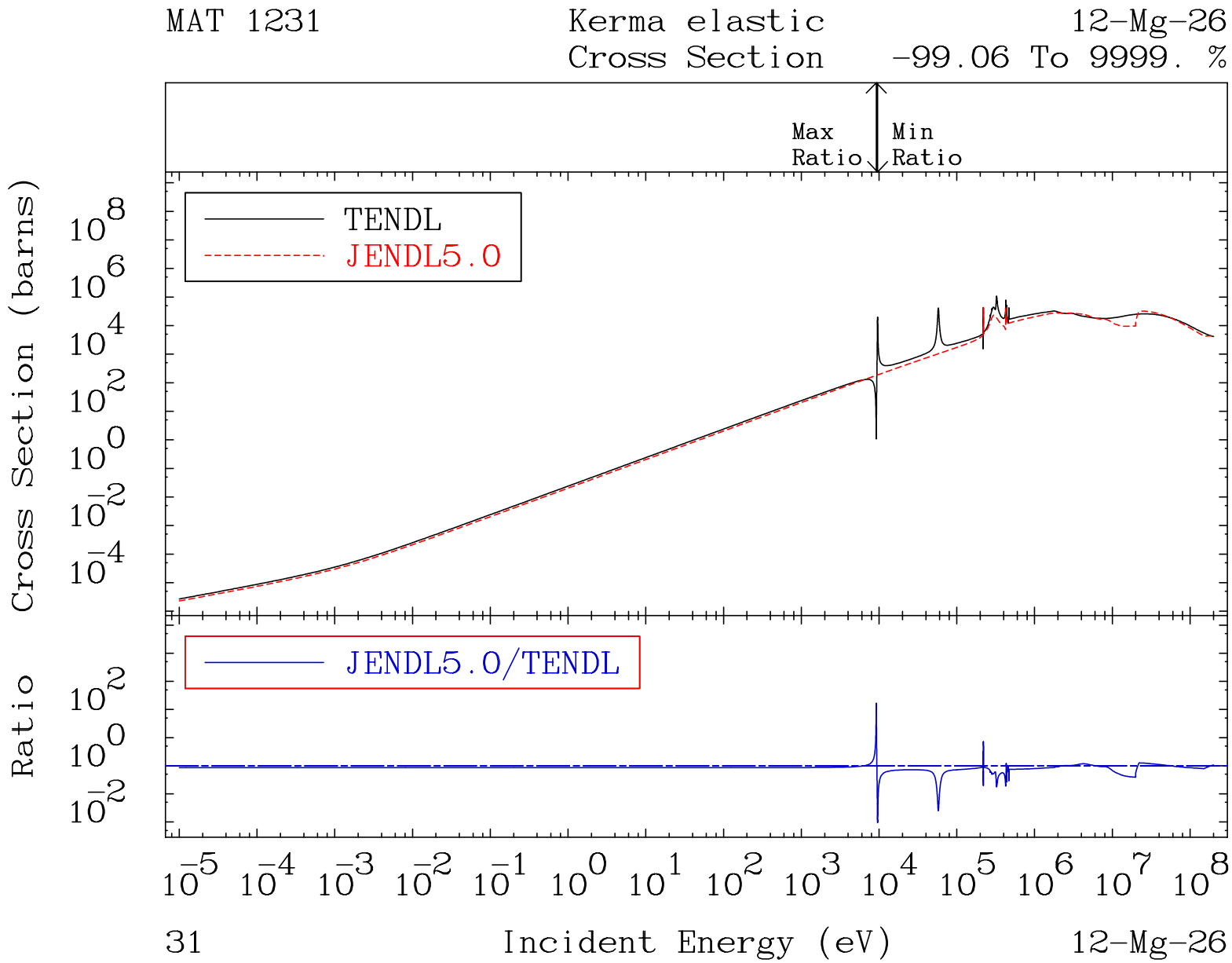

MAT 1231
Deuterium Production
12-Mg-26
Cross Section -100.0 To -1.402%
Min Ratio
Max Ratio
TENDL Threshold 12.384 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
26
Incident Energy (eV)
12-Mg-26

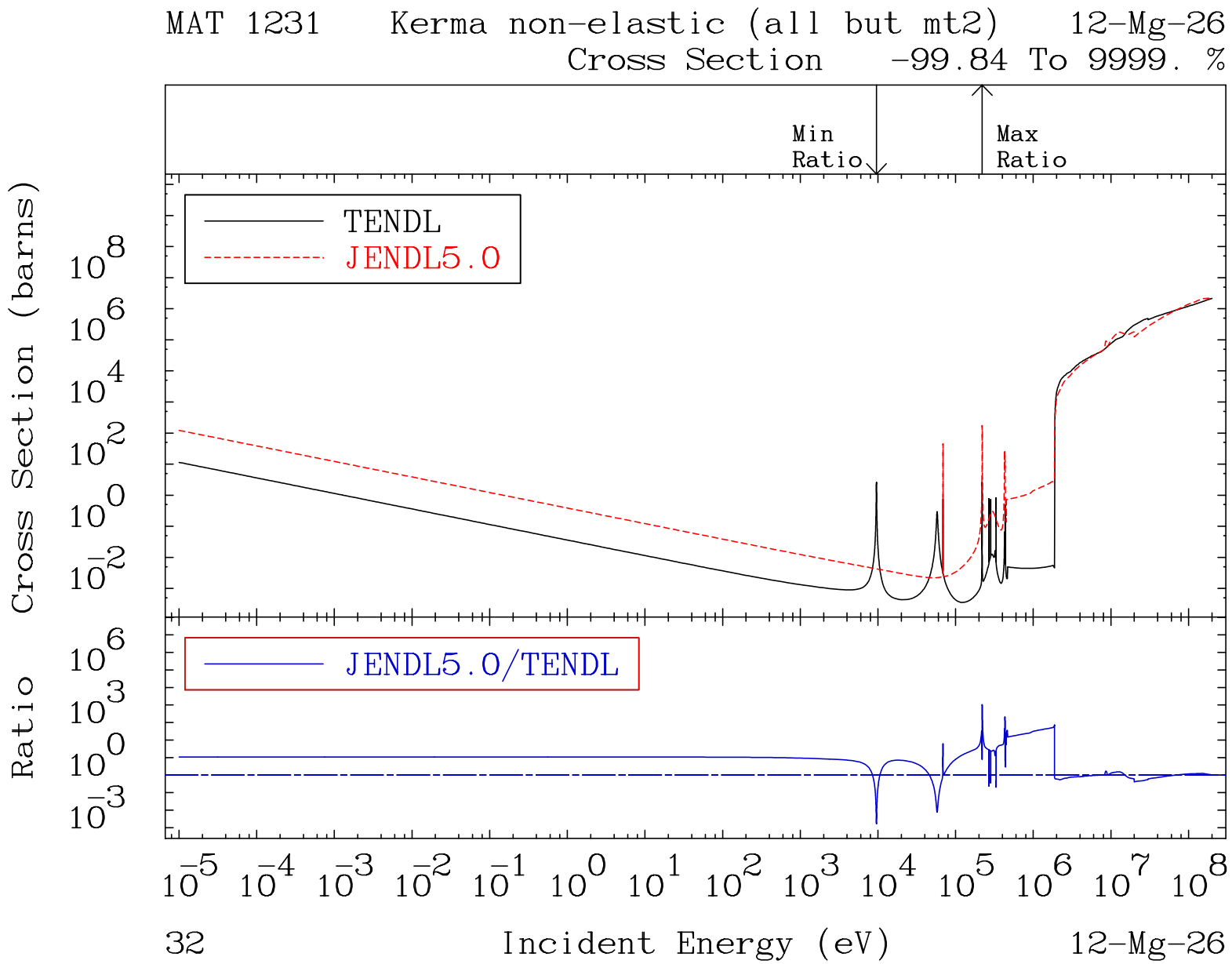

MAT 1231
Tritium Production
12-Mg-26
Cross Section
-100.0 To 15.04 %
Min Ratio
Max Ratio
TENDL Threshold 15.245 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
27
Incident Energy (eV)
12-Mg-26

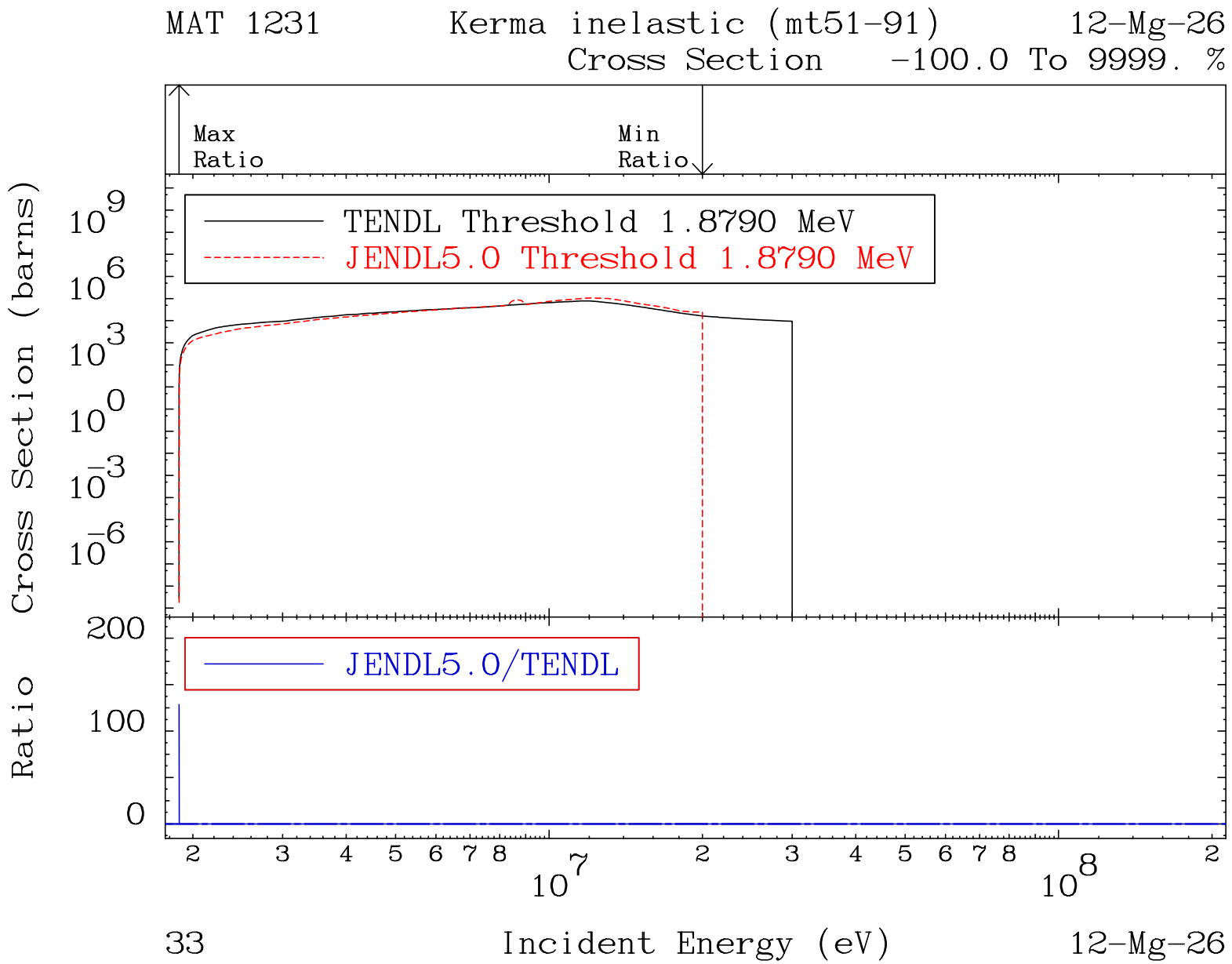

MAT 1231
He-3 Production
Cross Section
12-Mg-26
-100.0 To 196.6 %
Min Ratio
Max Ratio
TENDL Threshold 17.788 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
12-Mg-26

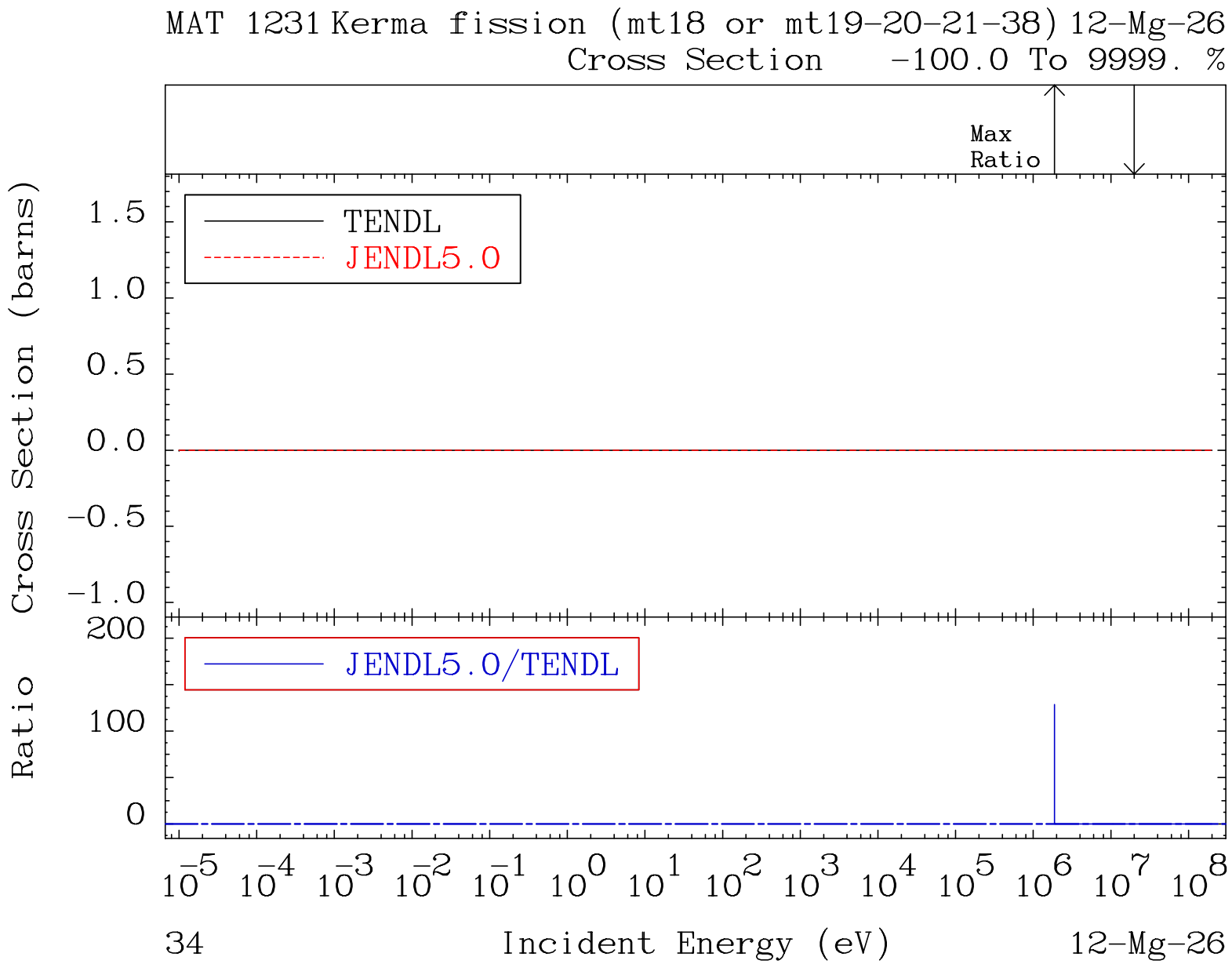

MAT 1231
He-4 Production
12-Mg-26
Cross Section
-100.0 To 2650. %
Max
Ratio
TENDL Threshold 5.6243 MeV
JENDL5.0 Threshold 7.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
12-Mg-26

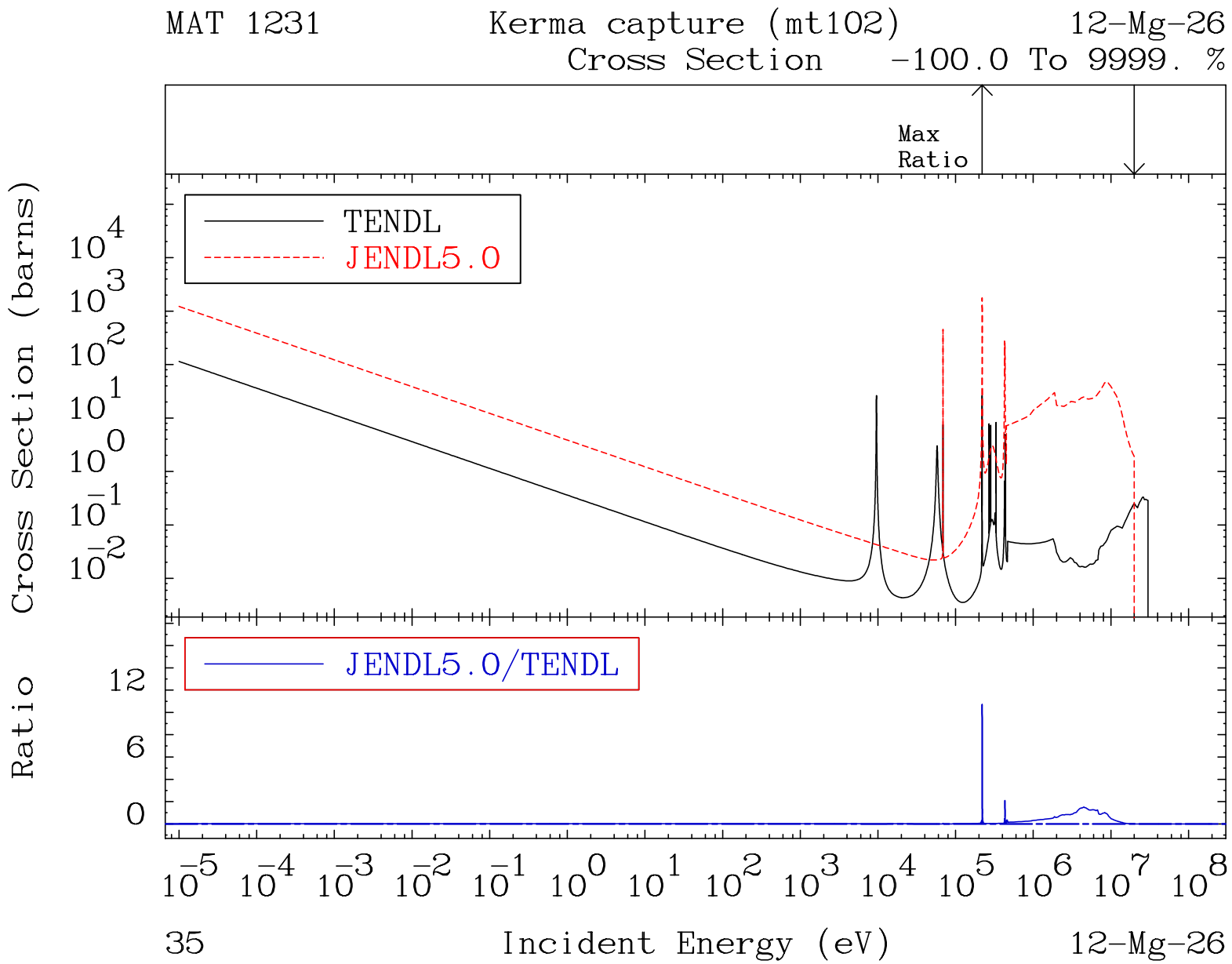

MAT 1231
Kerma total (eV-barns)
12-Mg-26
Cross Section -99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
30
12-Mg-26

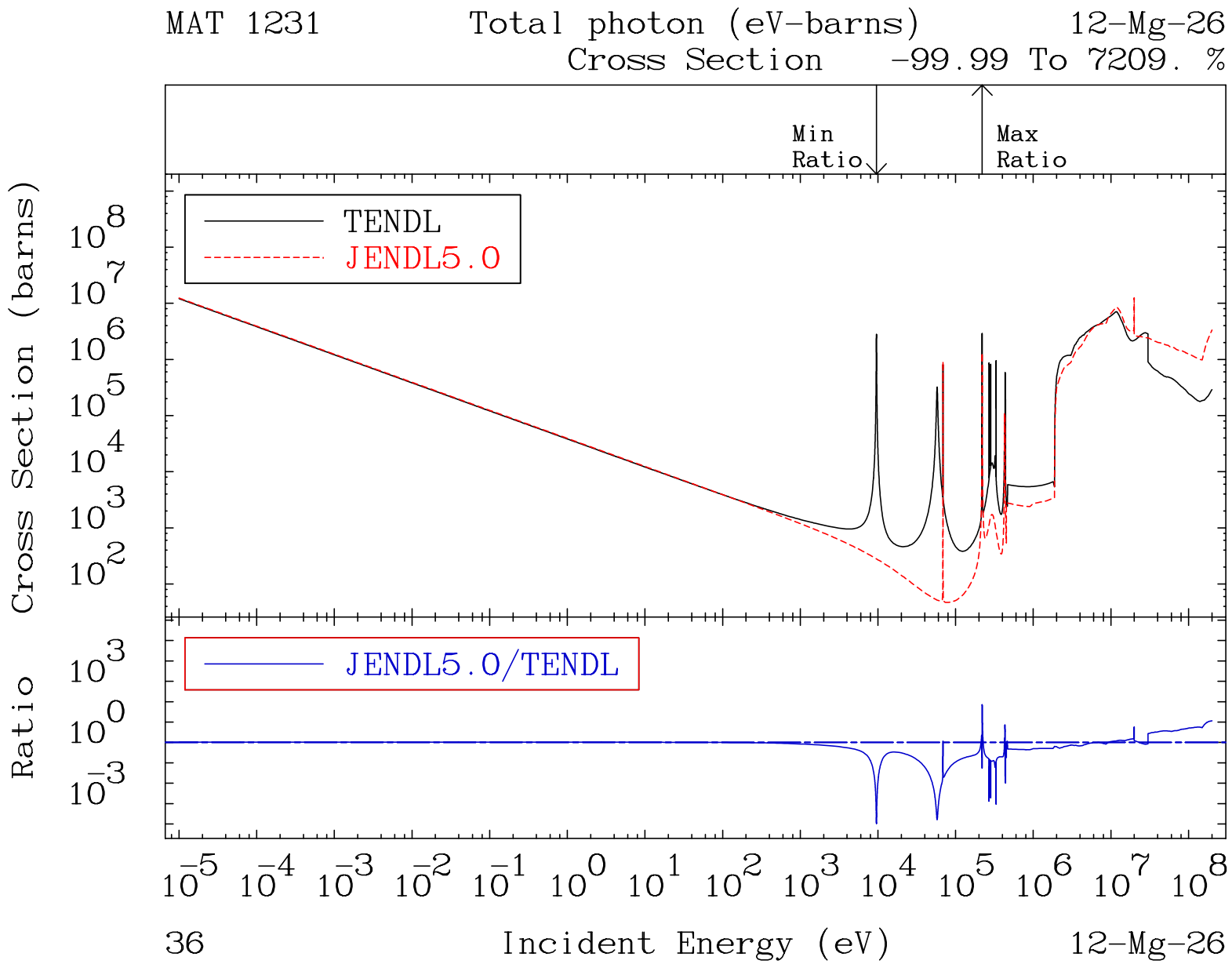

MAT 1231
Kerma elastic
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
31
12-Mg-26

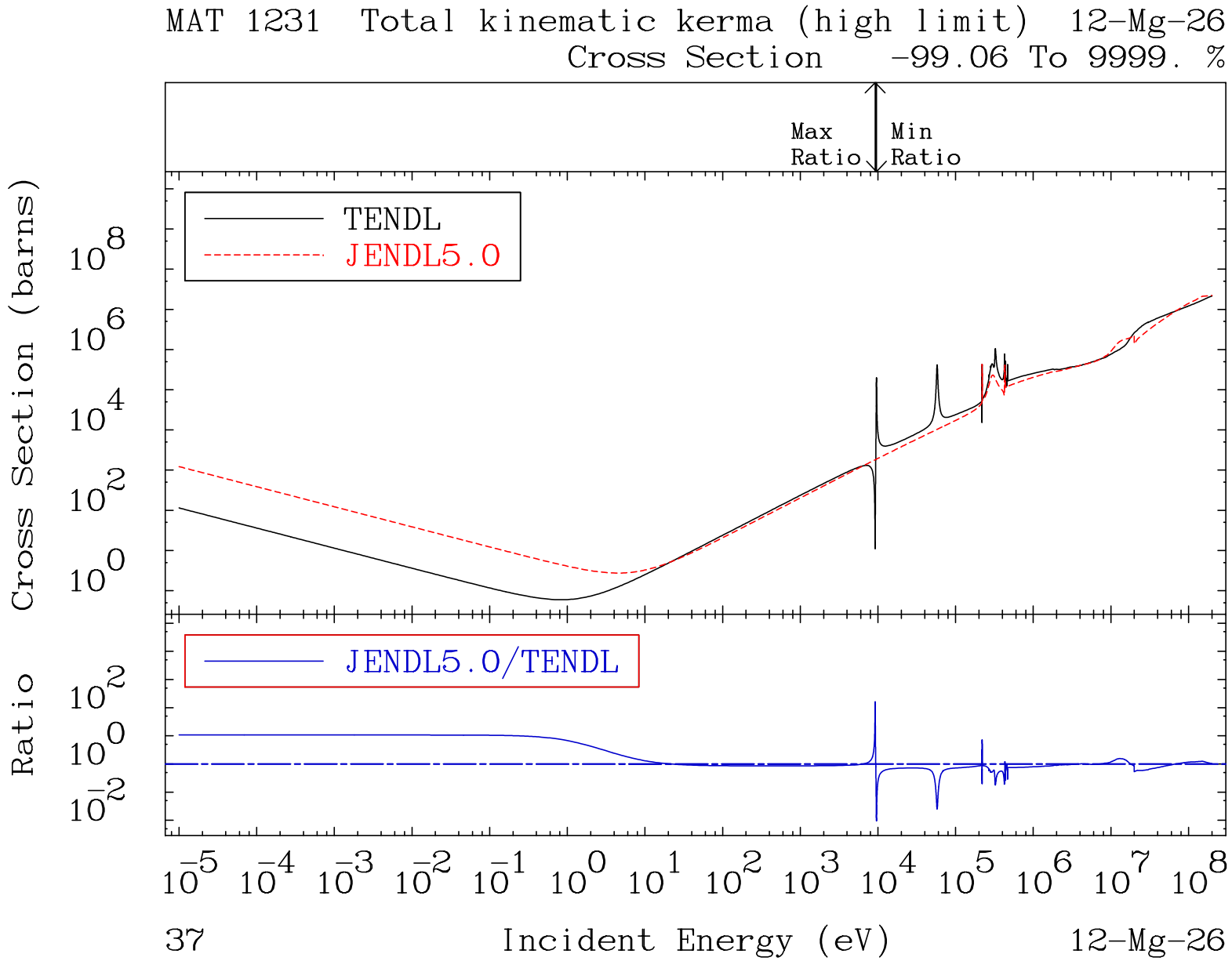

MAT 1231 Kerma non-elastic (all but mt2) 12-Mg-26
Cross Section -99.84 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
12-Mg-26

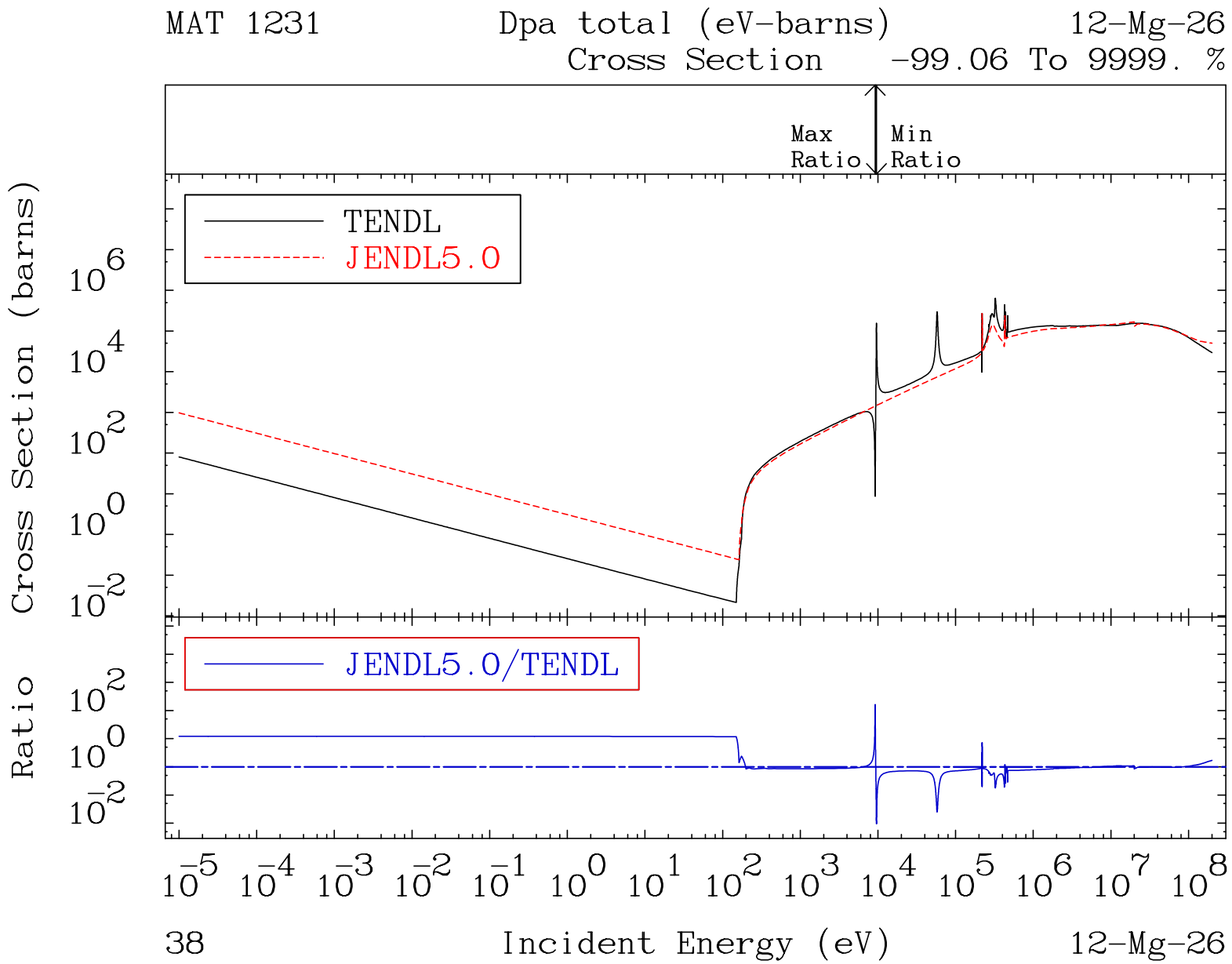

MAT 1231
Kerma inelastic (mt51-91)
12-Mg-26
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8790 MeV
JENDL5.0 Threshold 1.8790 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
12-Mg-26

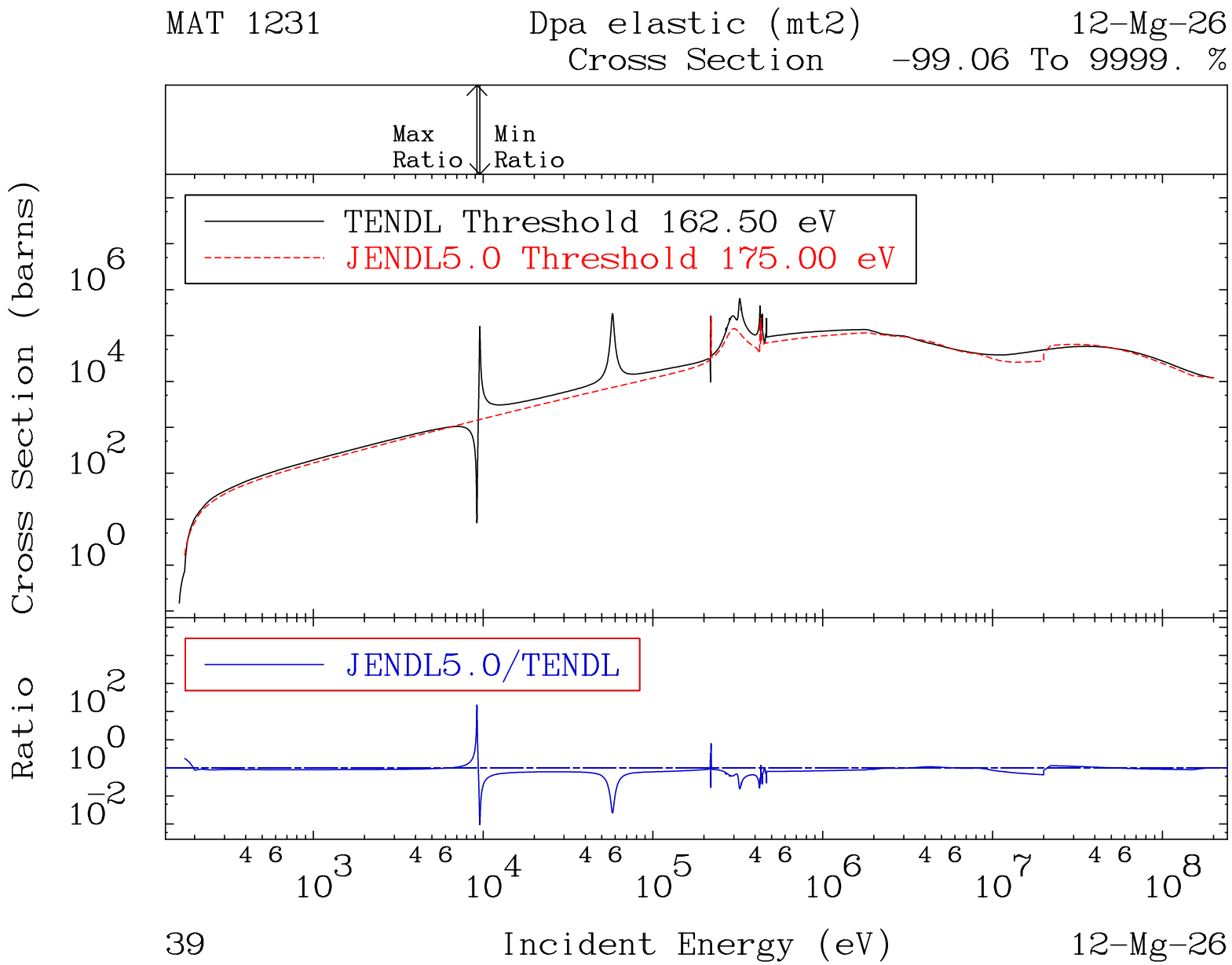

MAT 1231 Kerma fission (mt18 or mt19-20-21-38) 12-Mg-26
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
100
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
34
Incident Energy (eV)
12-Mg-26

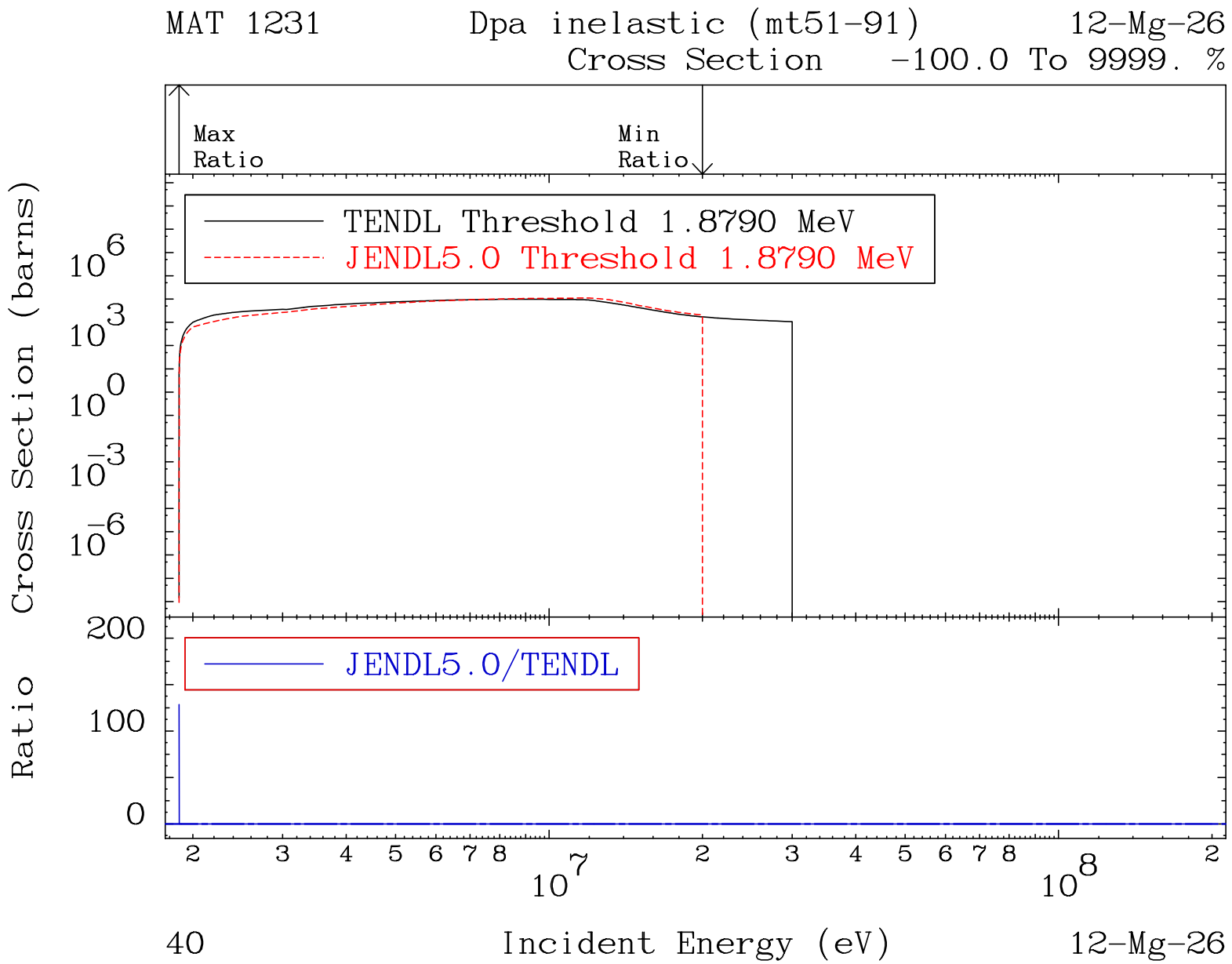

MAT 1231
Kerma capture (mt102)
12-Mg-26
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
35
12-Mg-26

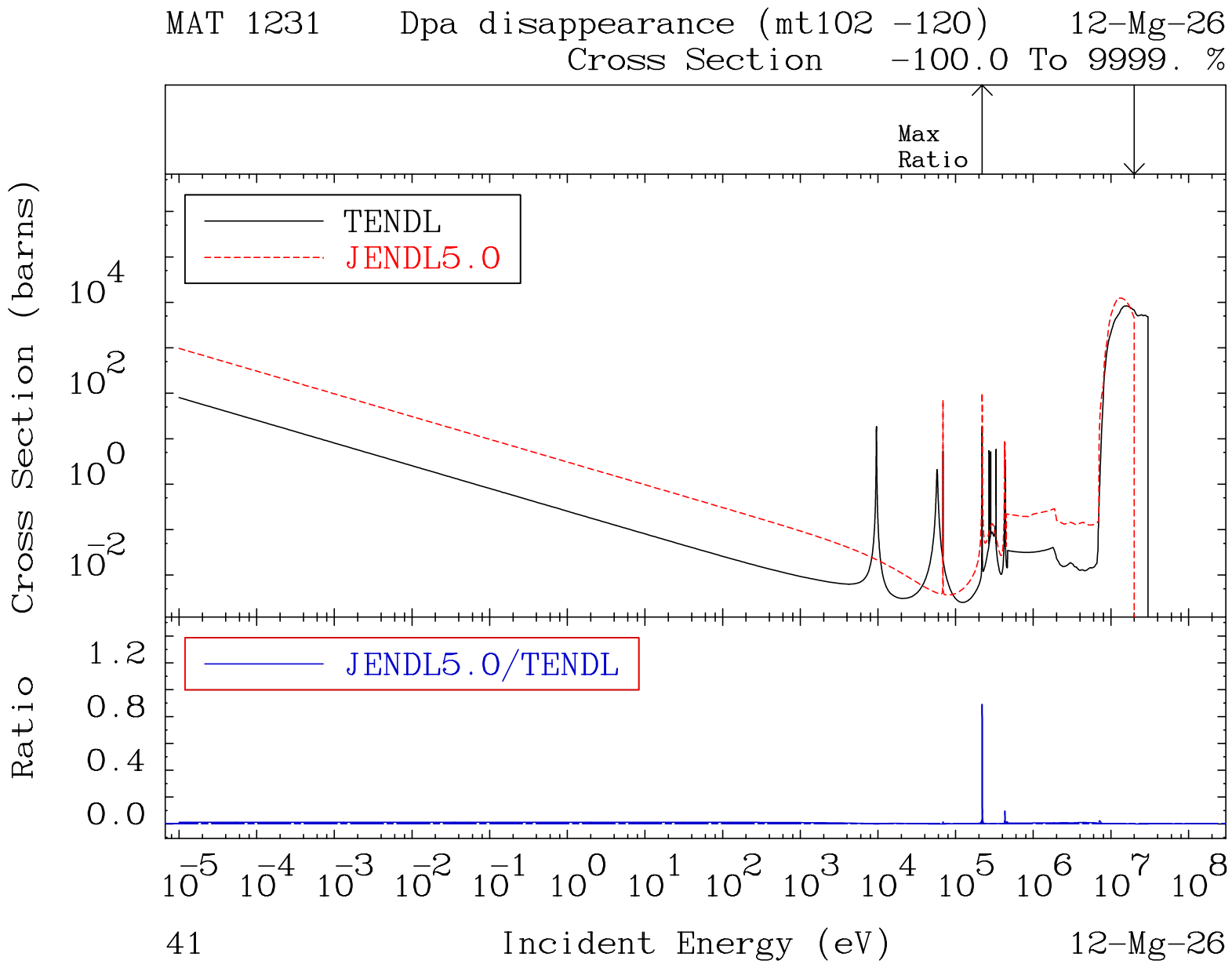

MAT 1231
Total photon (eV-barns)
12-Mg-26
Cross Section -99.99 To 7209. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
36
12-Mg-26


MAT 1231 Total kinematic kerma (high limit) 12-Mg-26
Cross Section -99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
37
12-Mg-26


MAT 1231
Dpa total (eV-barns)
12-Mg-26
Cross Section
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
12-Mg-26


MAT 1231
Dpa elastic (mt2)
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 162.50 eV
JENDL5.0 Threshold 175.00 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
39
12-Mg-26


MAT 1231
Dpa inelastic (mt51-91)
12-Mg-26
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.8790 MeV
JENDL5.0 Threshold 1.8790 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
12-Mg-26


MAT 1231 Dpa disappearance (mt102 -120) 12-Mg-26
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
1.2
0.8
0.4
0.0
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
41
Incident Energy (eV)
12-Mg-26