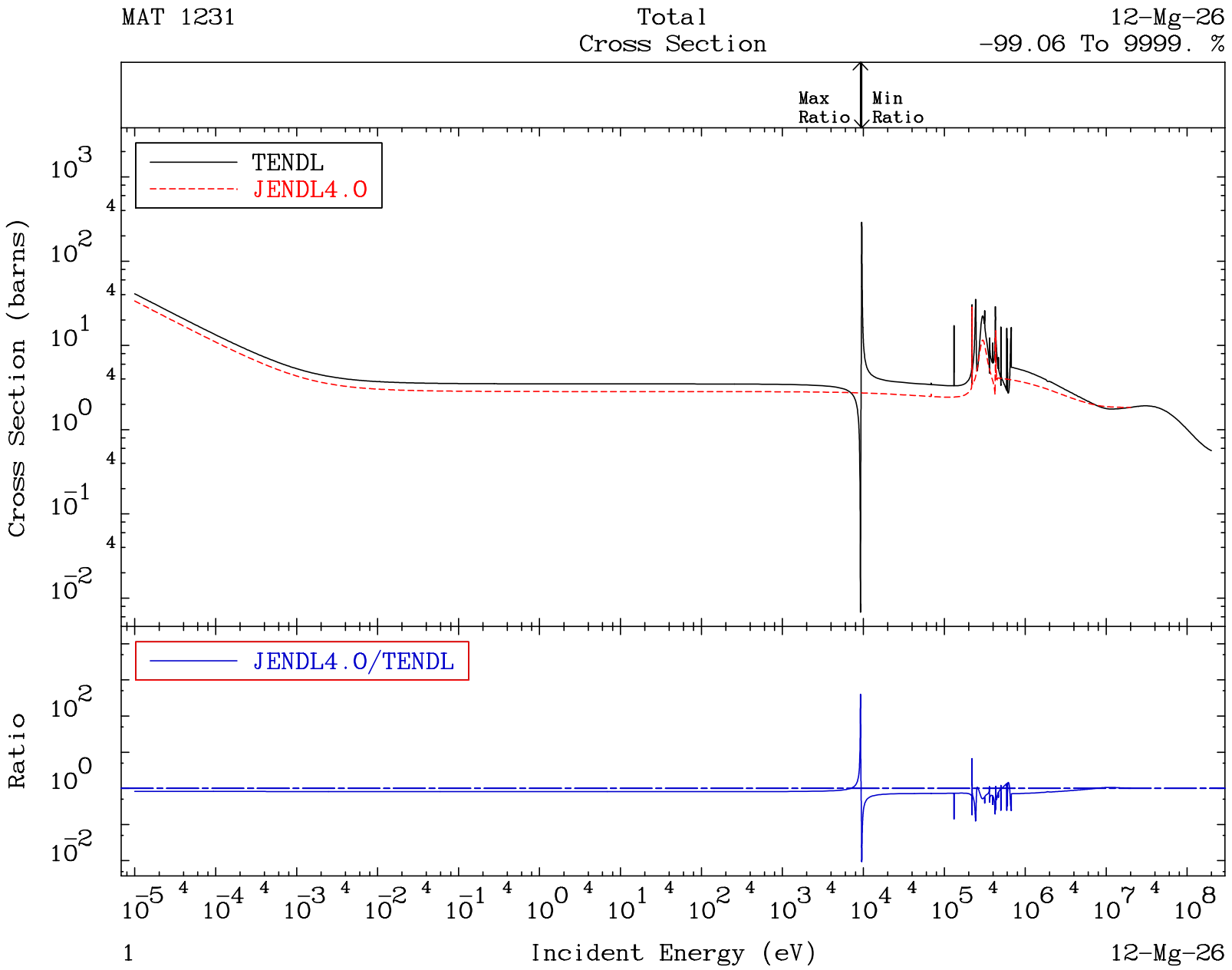
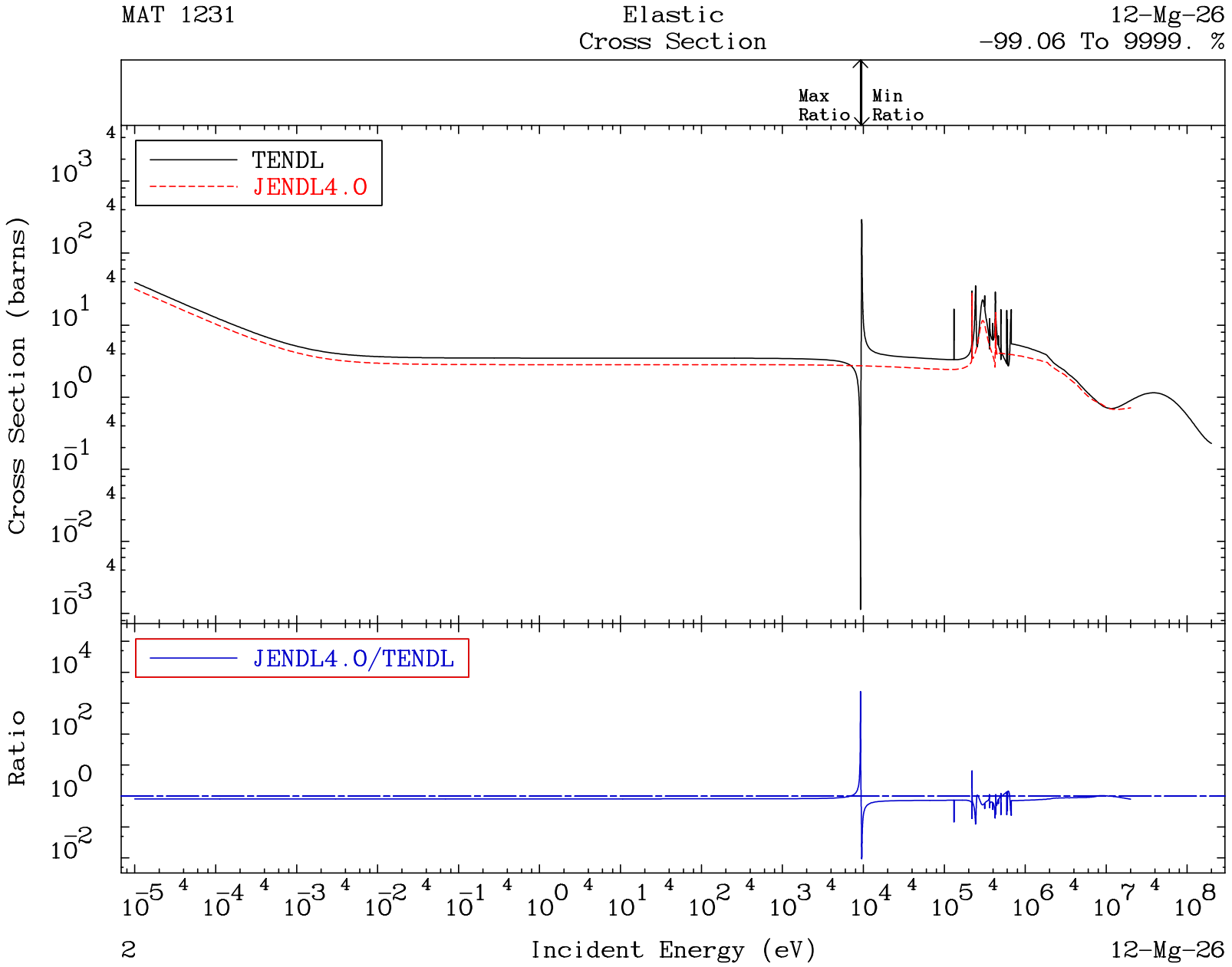
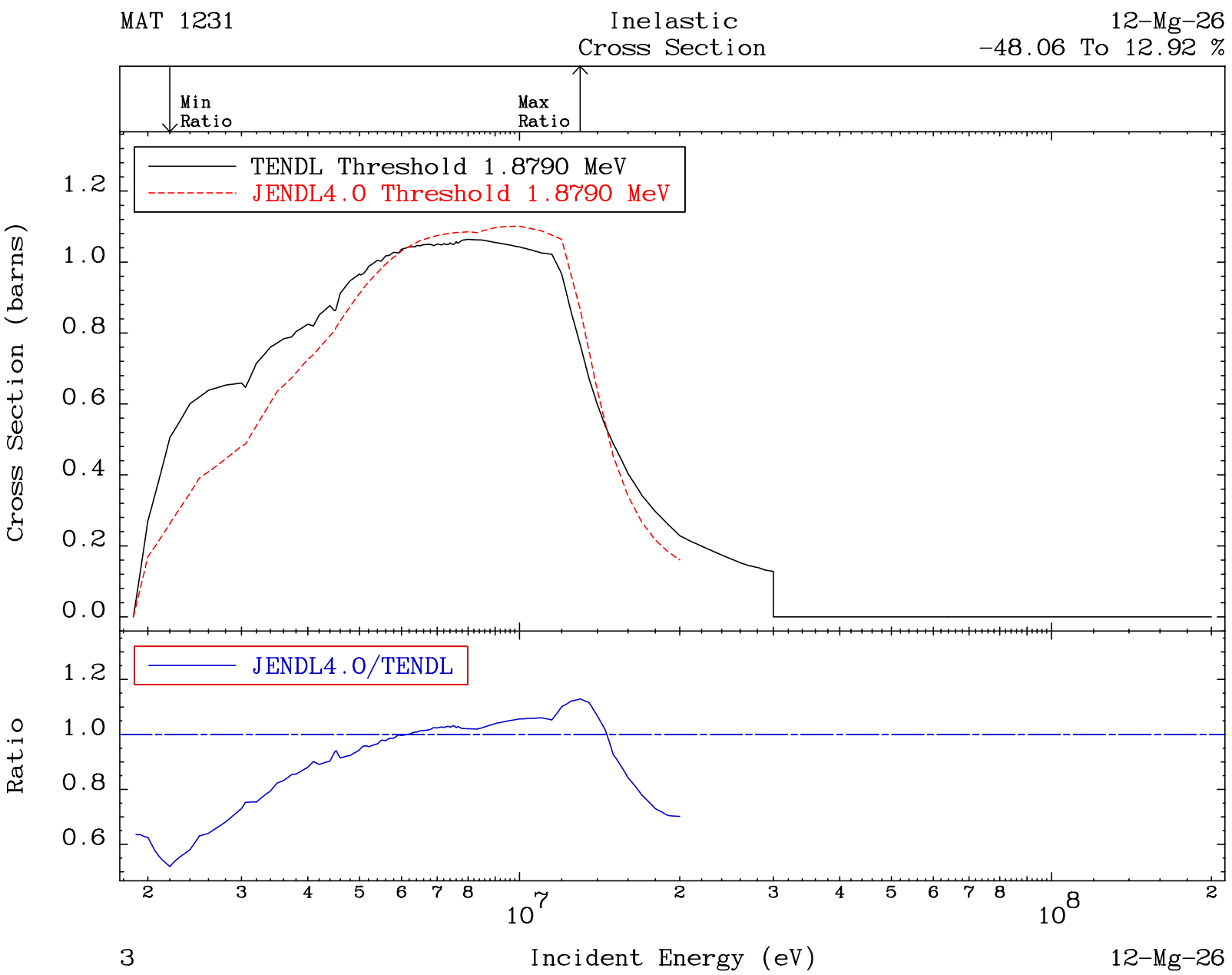
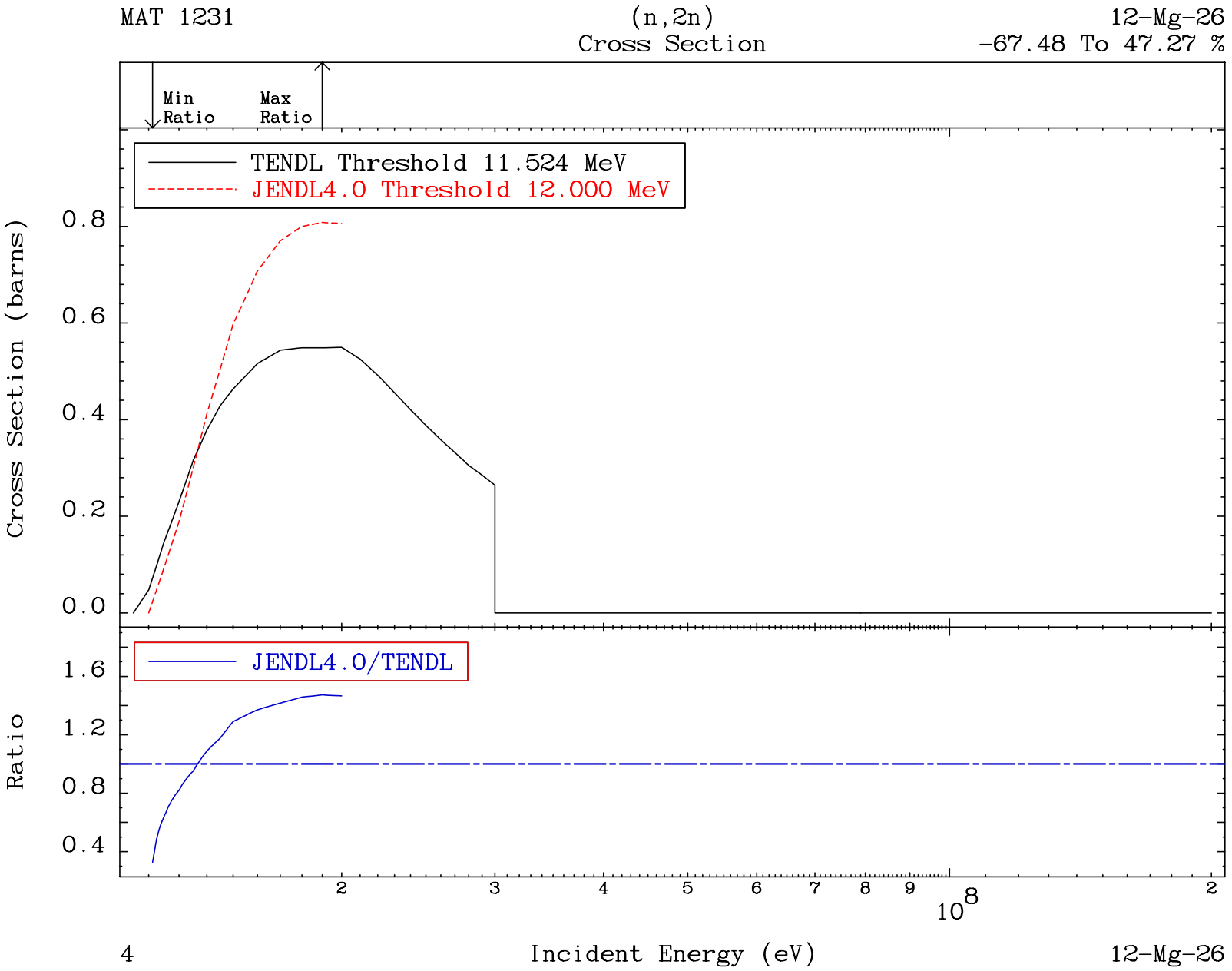
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

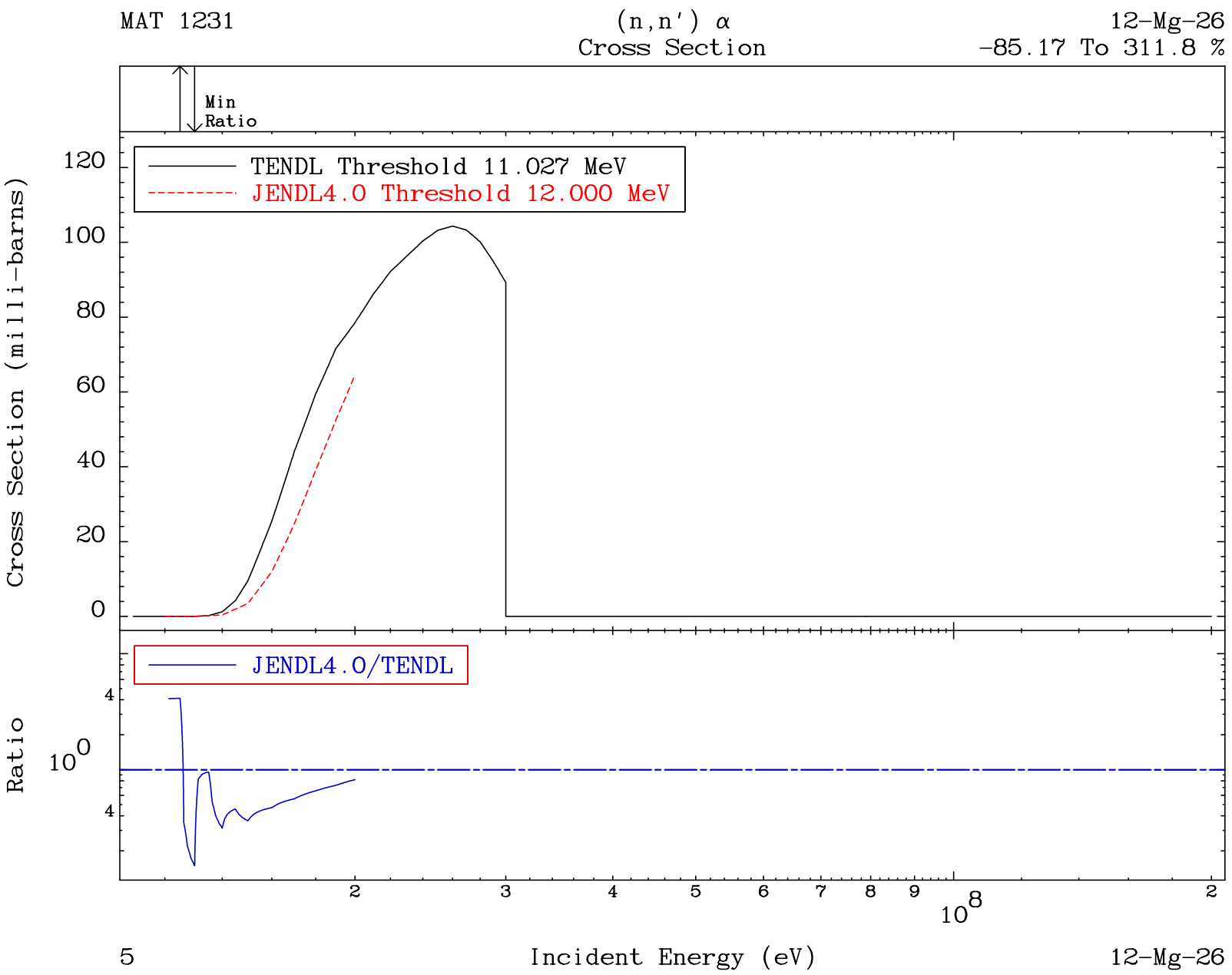
Press Mouse Button to Start

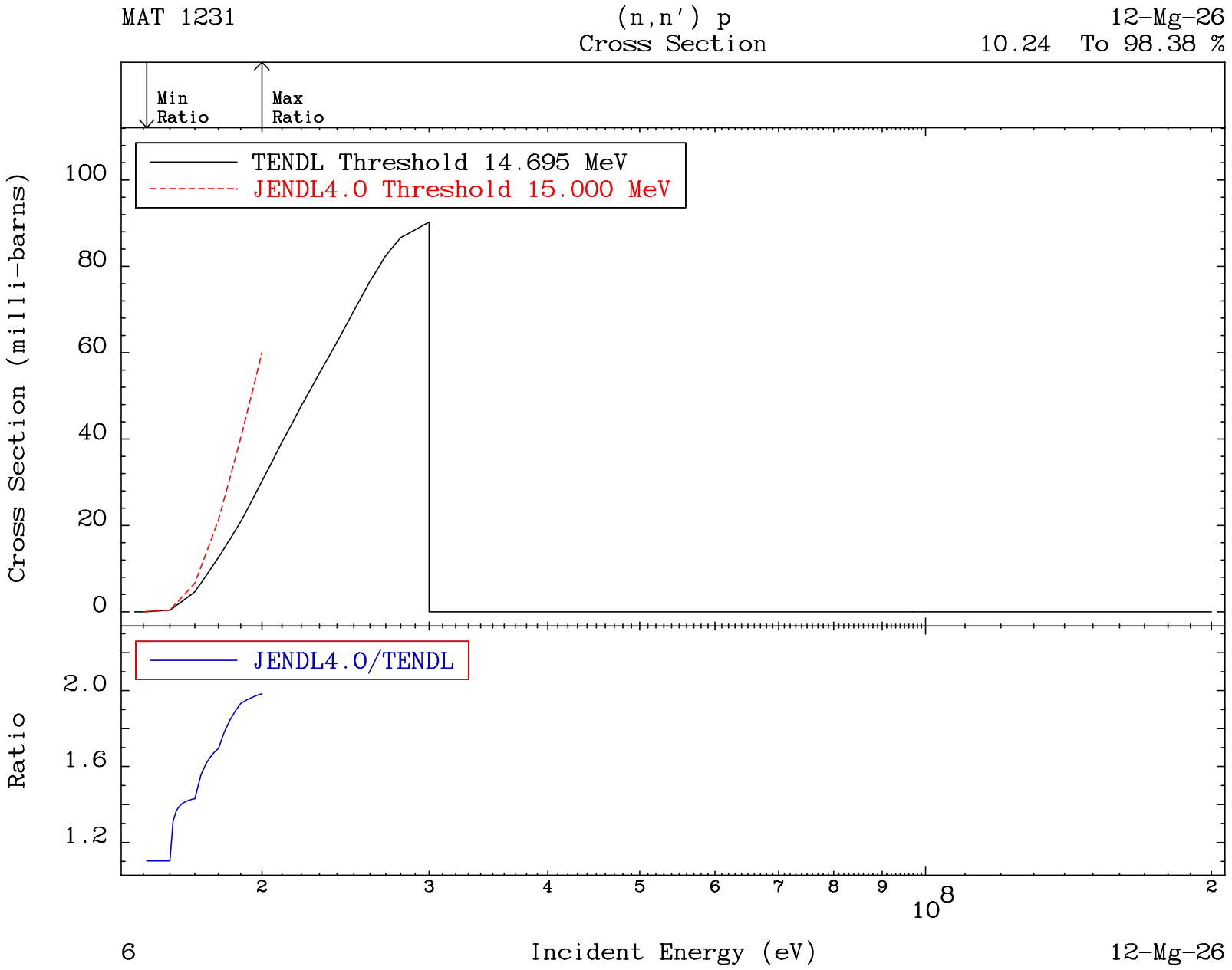

MAT 1231
Total
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
12-Mg-26

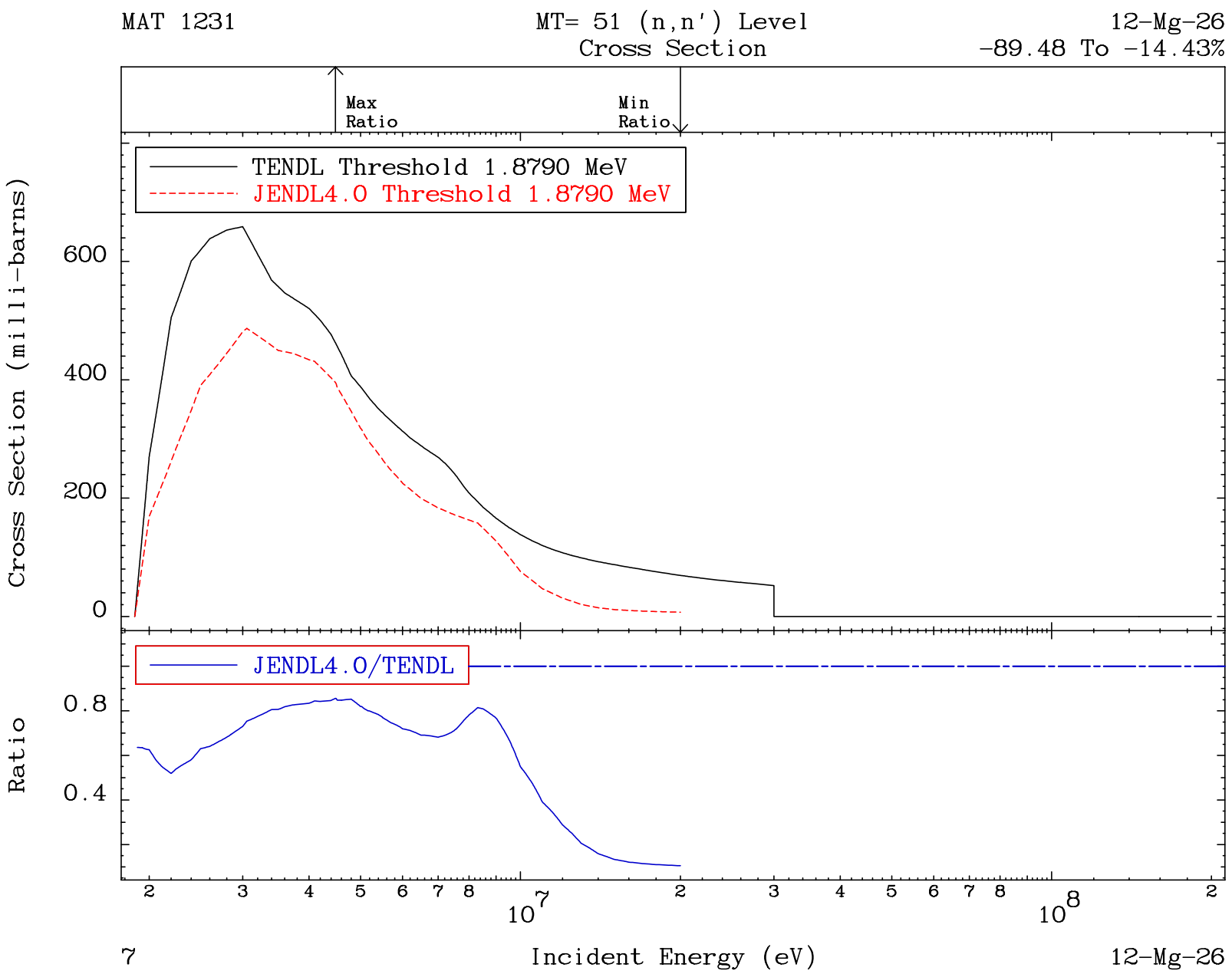

MAT 1231
Elastic
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
12-Mg-26

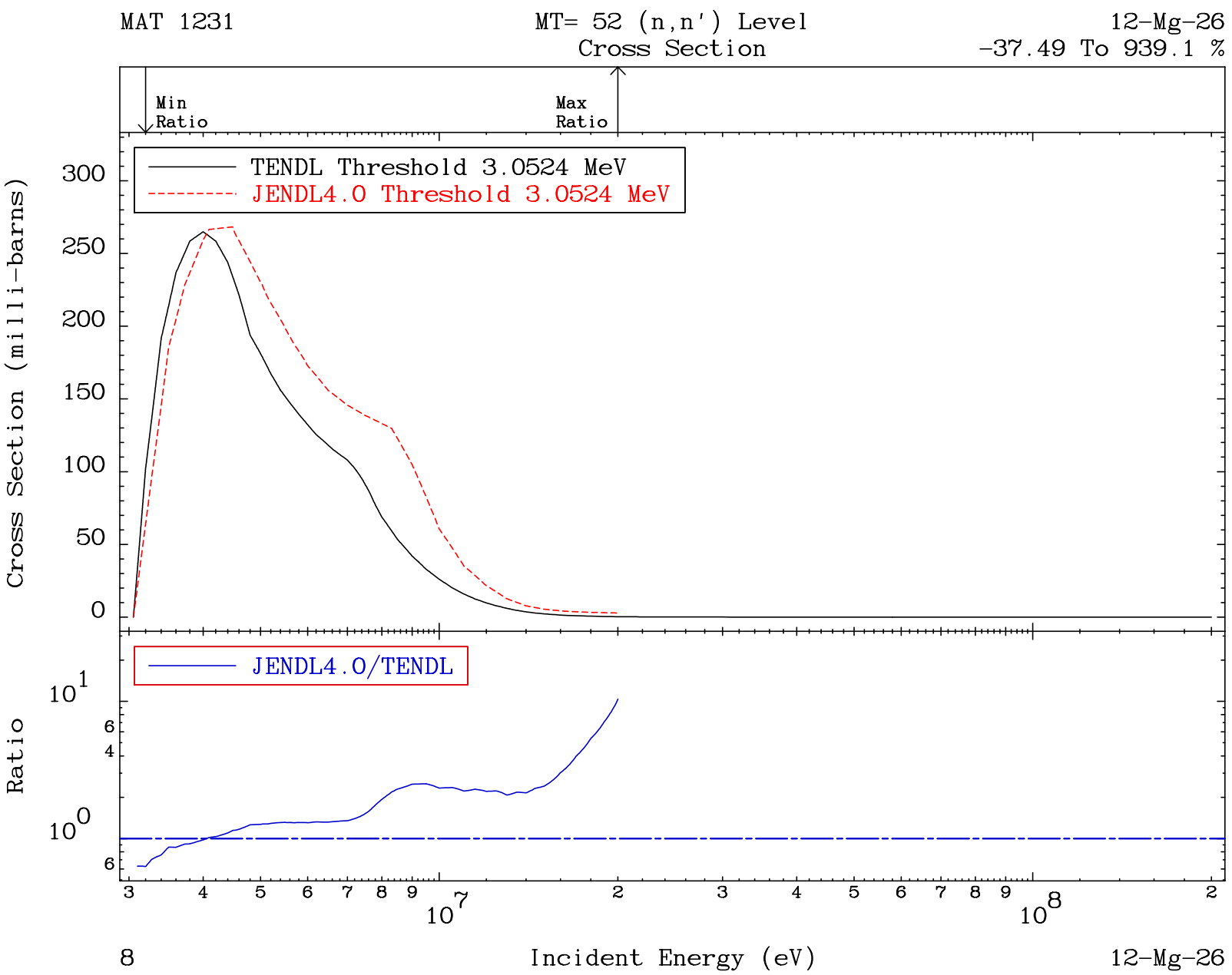

MAT 1231
Inelastic
Cross Section
12-Mg-26
-48.06 To 12.92 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.8790 MeV
JENDL4.0 Threshold 1.8790 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.2
1.0
0.8
0.6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
12-Mg-26

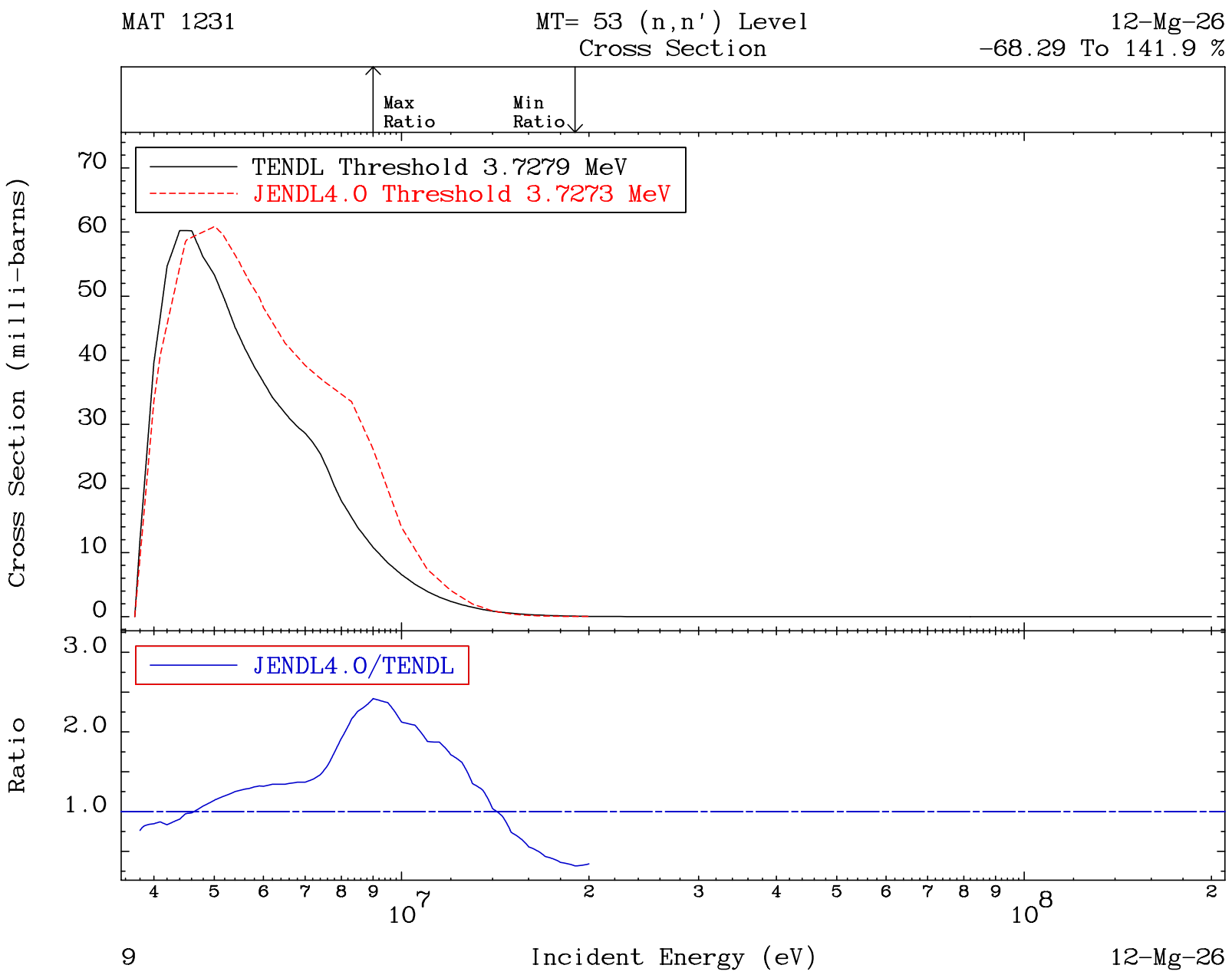

MAT 1231
(n,2n)
Cross Section
12-Mg-26
-67.48 To 47.27 %
Min Ratio
Max Ratio
TENDL Threshold 11.524 MeV
JENDL4.0 Threshold 12.000 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
12-Mg-26

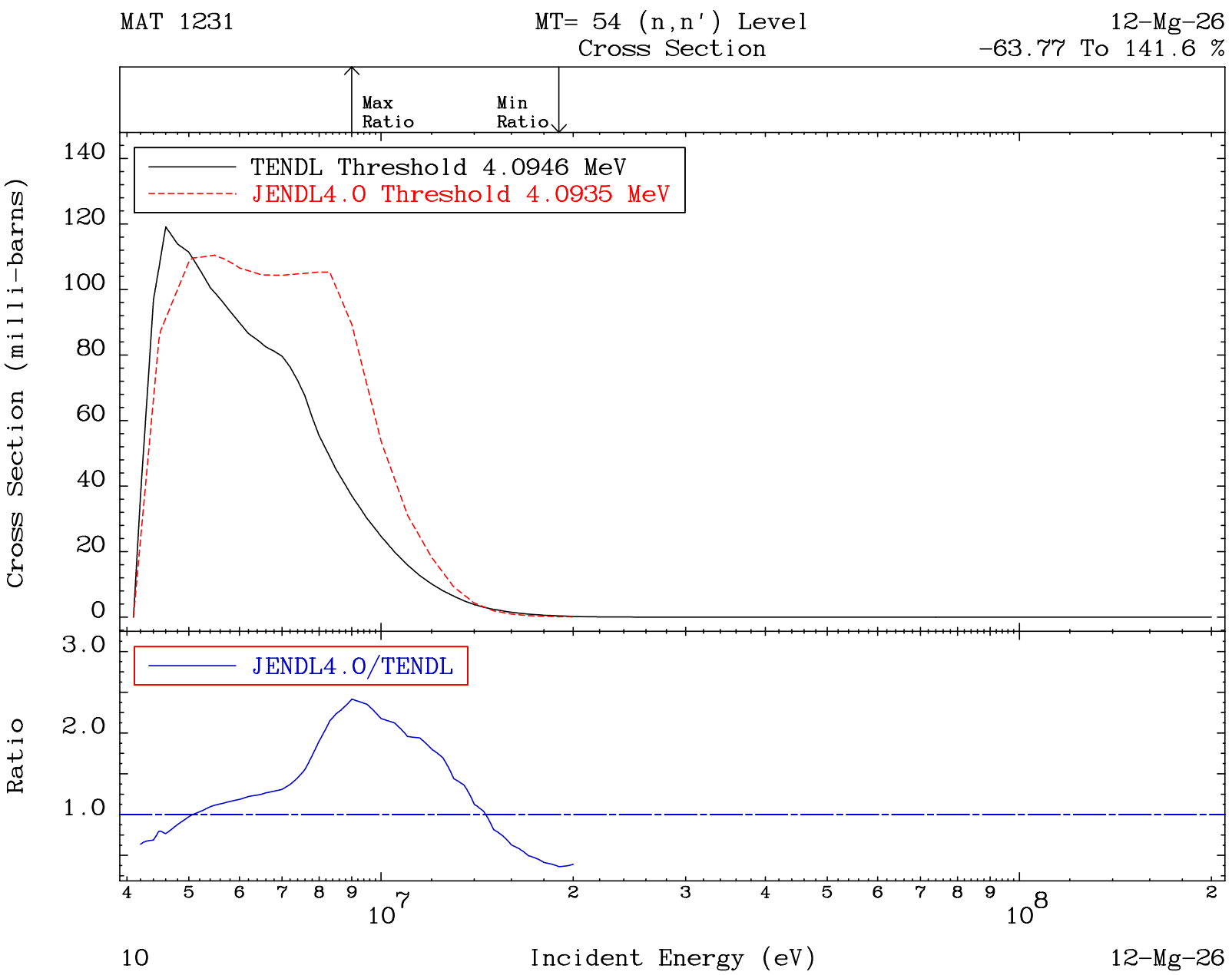

MAT 1231
(n,n') α
Cross Section
12-Mg-26
-85.17 To 311.8 %
Min
Ratio
TENDL Threshold 11.027 MeV
JENDL4.0 Threshold 12.000 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
10^0
4
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
12-Mg-26

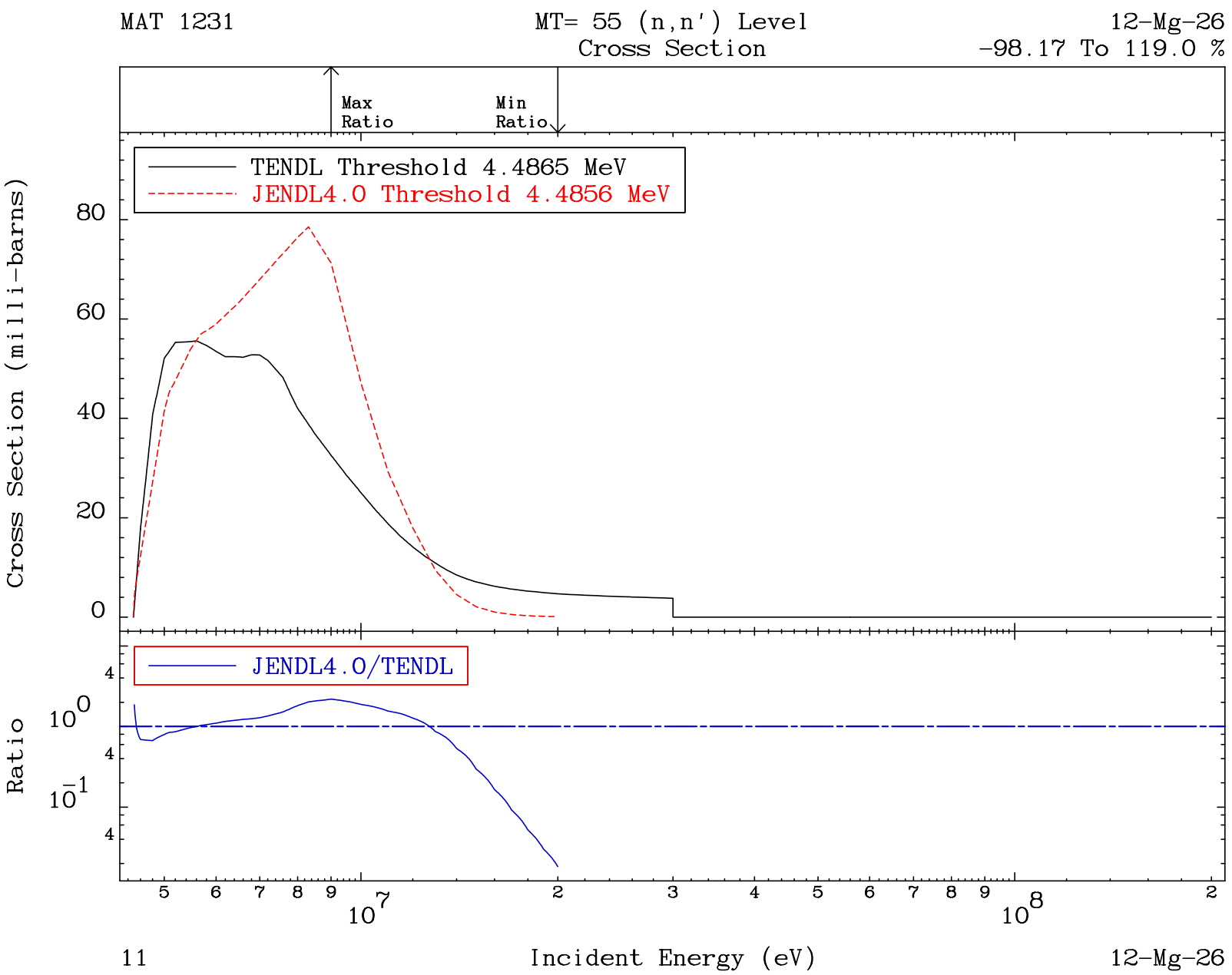

MAT 1231
(n,n') p
Cross Section
12-Mg-26
10.24 To 98.38 %
Min Ratio
Max Ratio
TENDL Threshold 14.695 MeV
JENDL4.0 Threshold 15.000 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
12-Mg-26

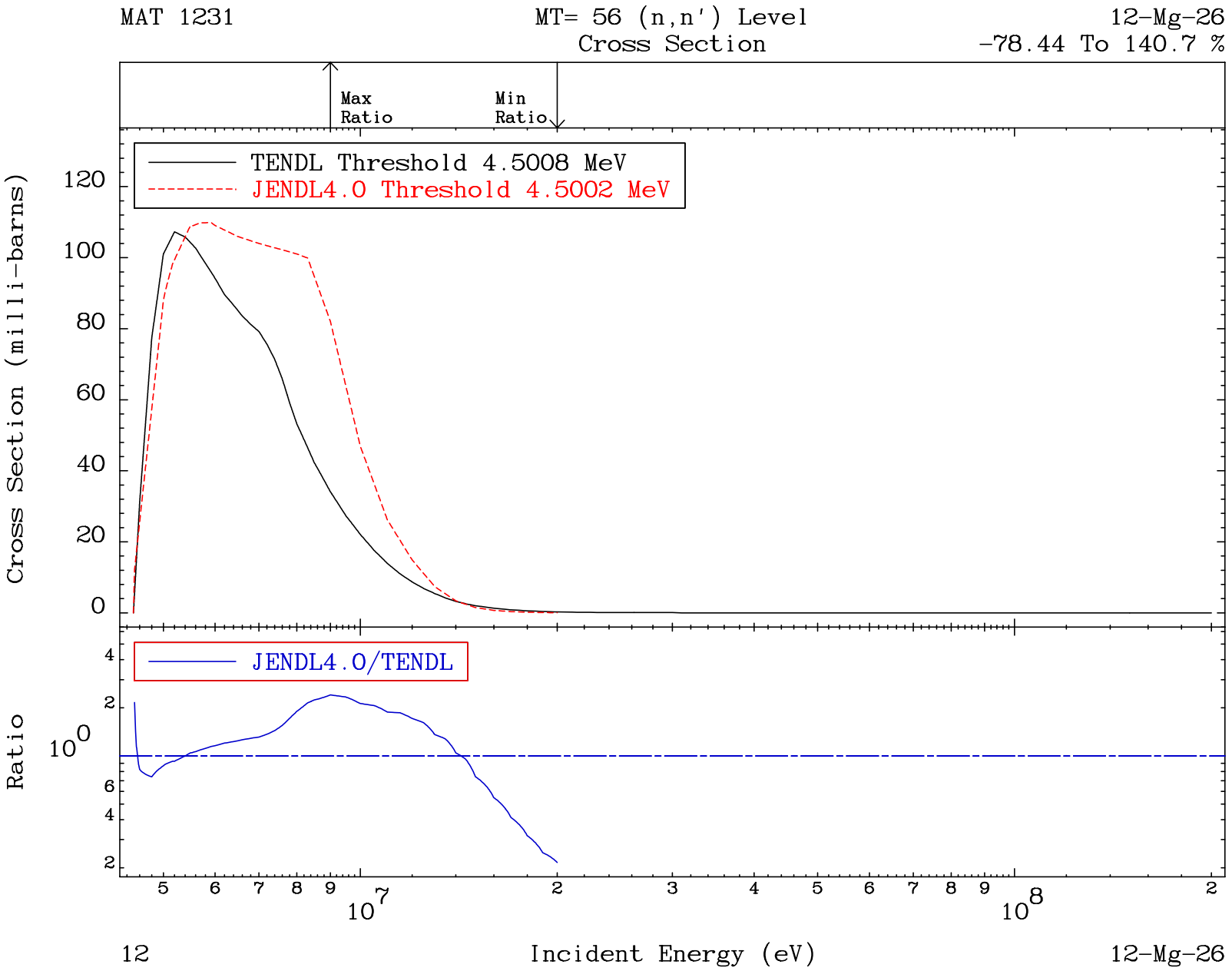

MAT 1231
MT= 51 (n,n') Level
Cross Section
12-Mg-26
-89.48 To -14.43%
Max
Ratio
Min
Ratio
TENDL Threshold 1.8790 MeV
JENDL4.0 Threshold 1.8790 MeV
Cross Section (milli-barns)
600
400
200
0
JENDL4.0/TENDL
Ratio
0.8
0.4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
7
Incident Energy (eV)
12-Mg-26

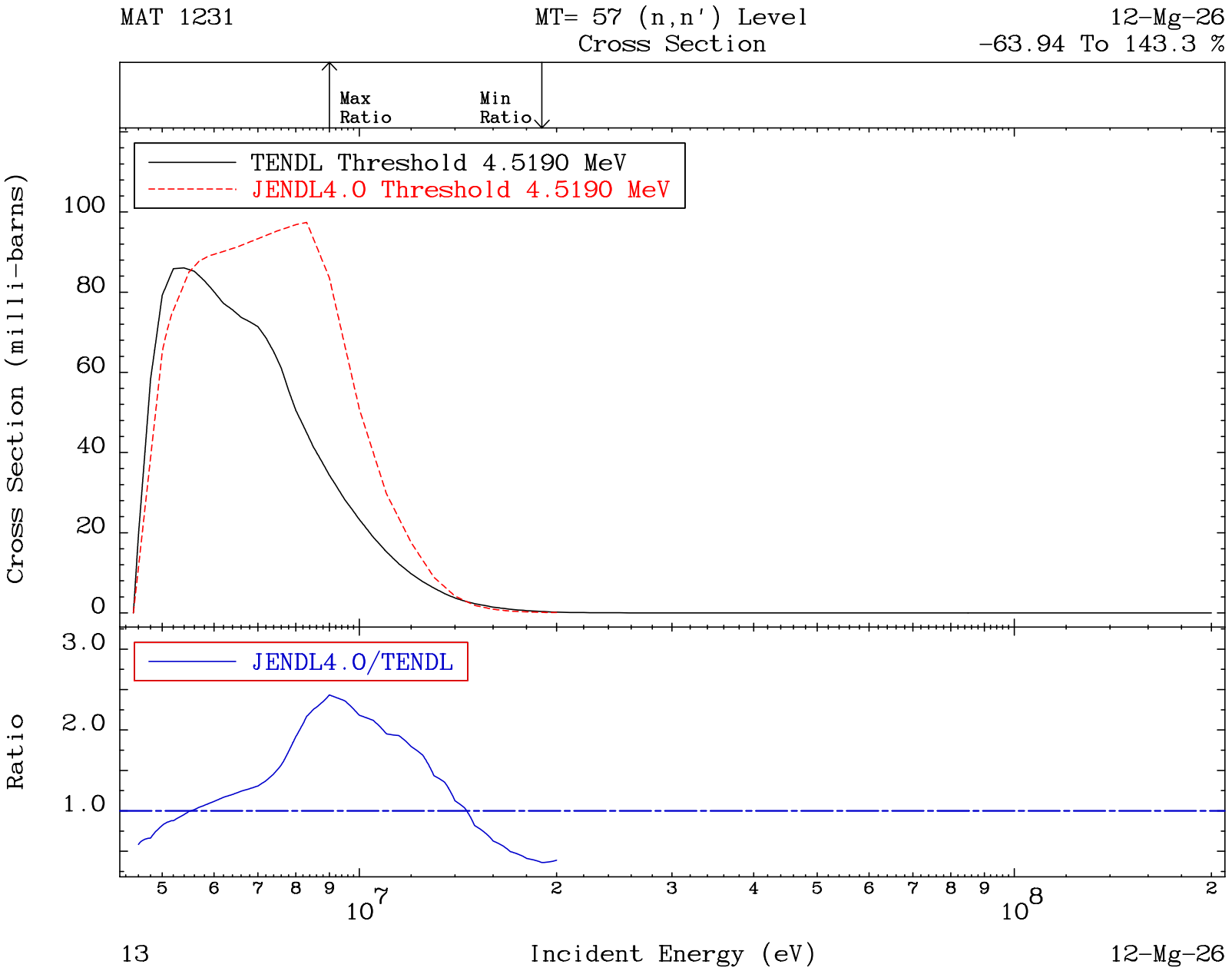

MAT 1231
MT= 52 (n,n') Level
Cross Section
12-Mg-26
-37.49 To 939.1 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.0524 MeV
JENDL4.0 Threshold 3.0524 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^1
10^0
6
4
6
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
12-Mg-26

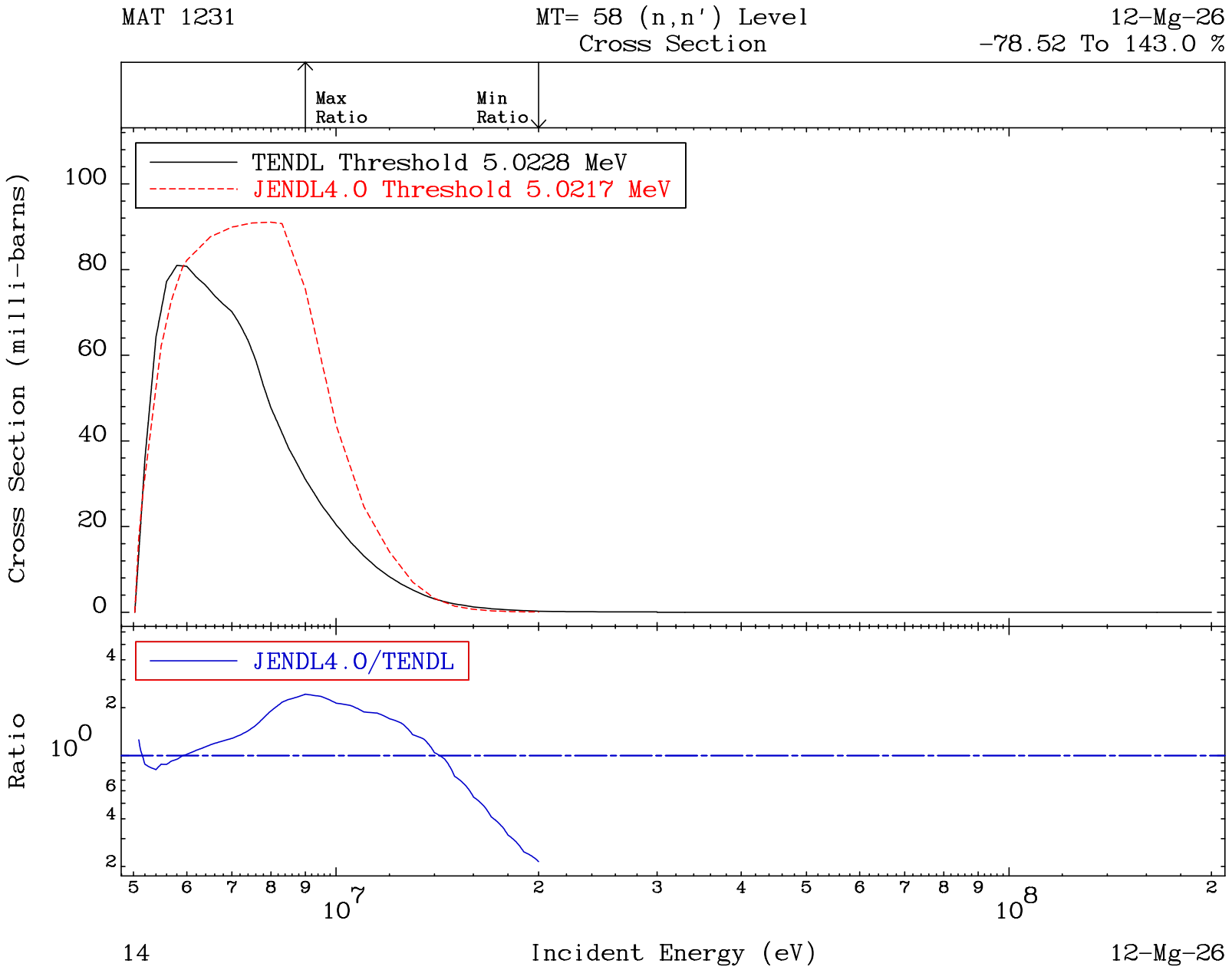

MAT 1231
MT= 53 (n,n') Level
Cross Section
12-Mg-26
-68.29 To 141.9 %
Max Ratio
Min Ratio
TENDL Threshold 3.7279 MeV
JENDL4.0 Threshold 3.7273 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
9
12-Mg-26

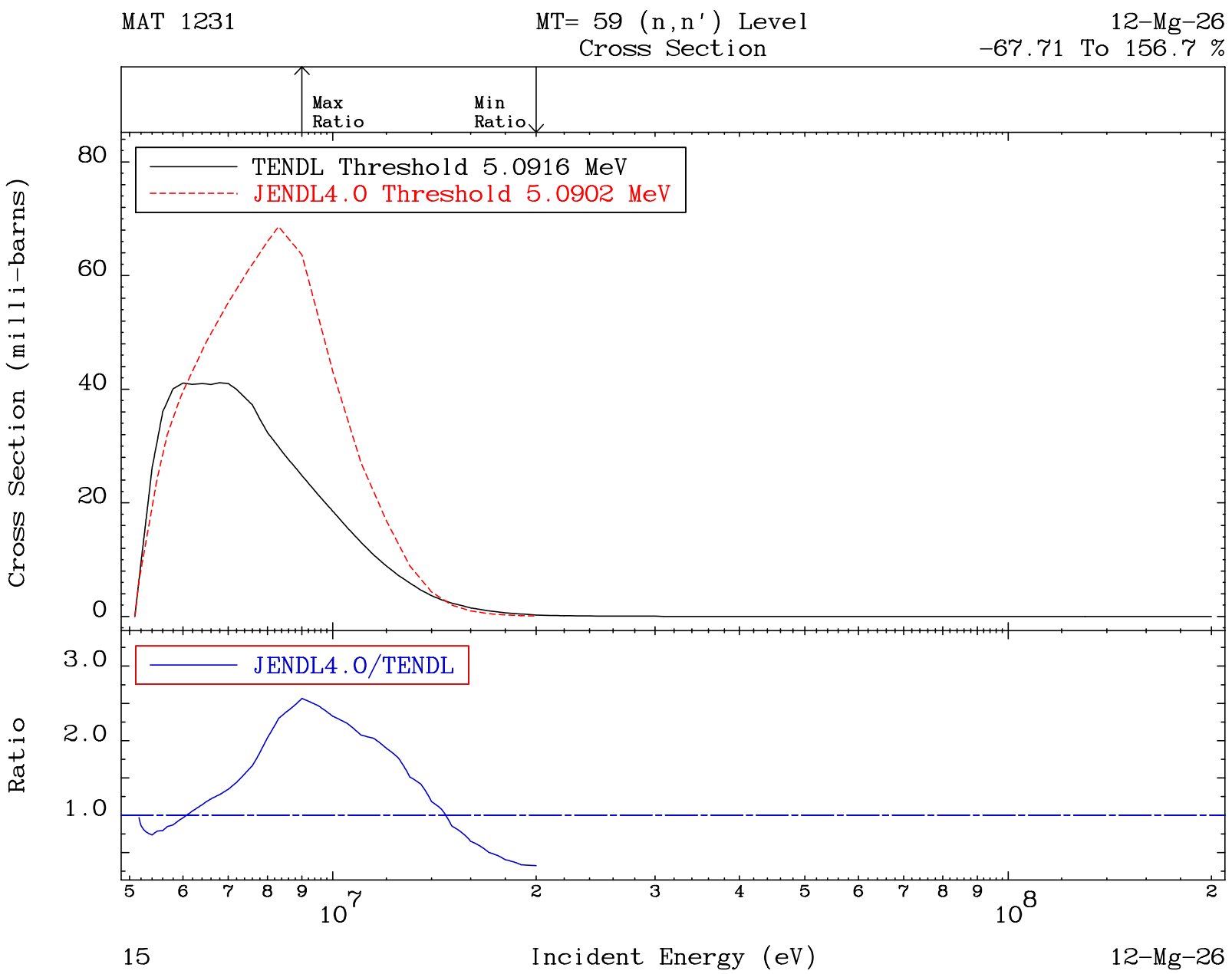

MAT 1231
MT= 54 (n,n') Level
Cross Section
12-Mg-26
-63.77 To 141.6 %
Max Ratio
Min Ratio
TENDL Threshold 4.0946 MeV
JENDL4.0 Threshold 4.0935 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
Incident Energy (eV)
10
12-Mg-26

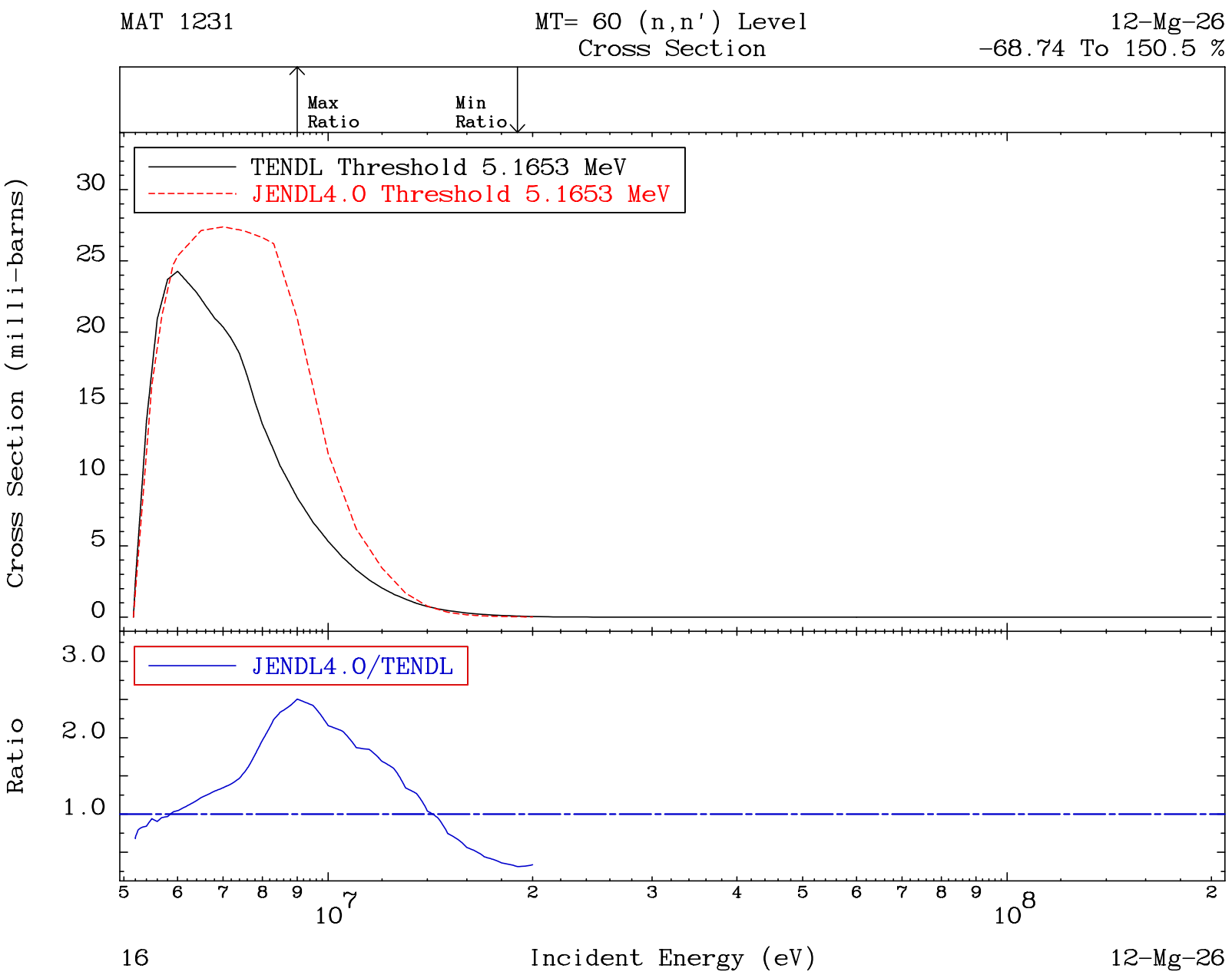

MAT 1231
MT= 55 (n,n') Level
Cross Section
12-Mg-26
-98.17 To 119.0 %
Max Ratio
Min Ratio
TENDL Threshold 4.4865 MeV
JENDL4.0 Threshold 4.4856 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
11
12-Mg-26

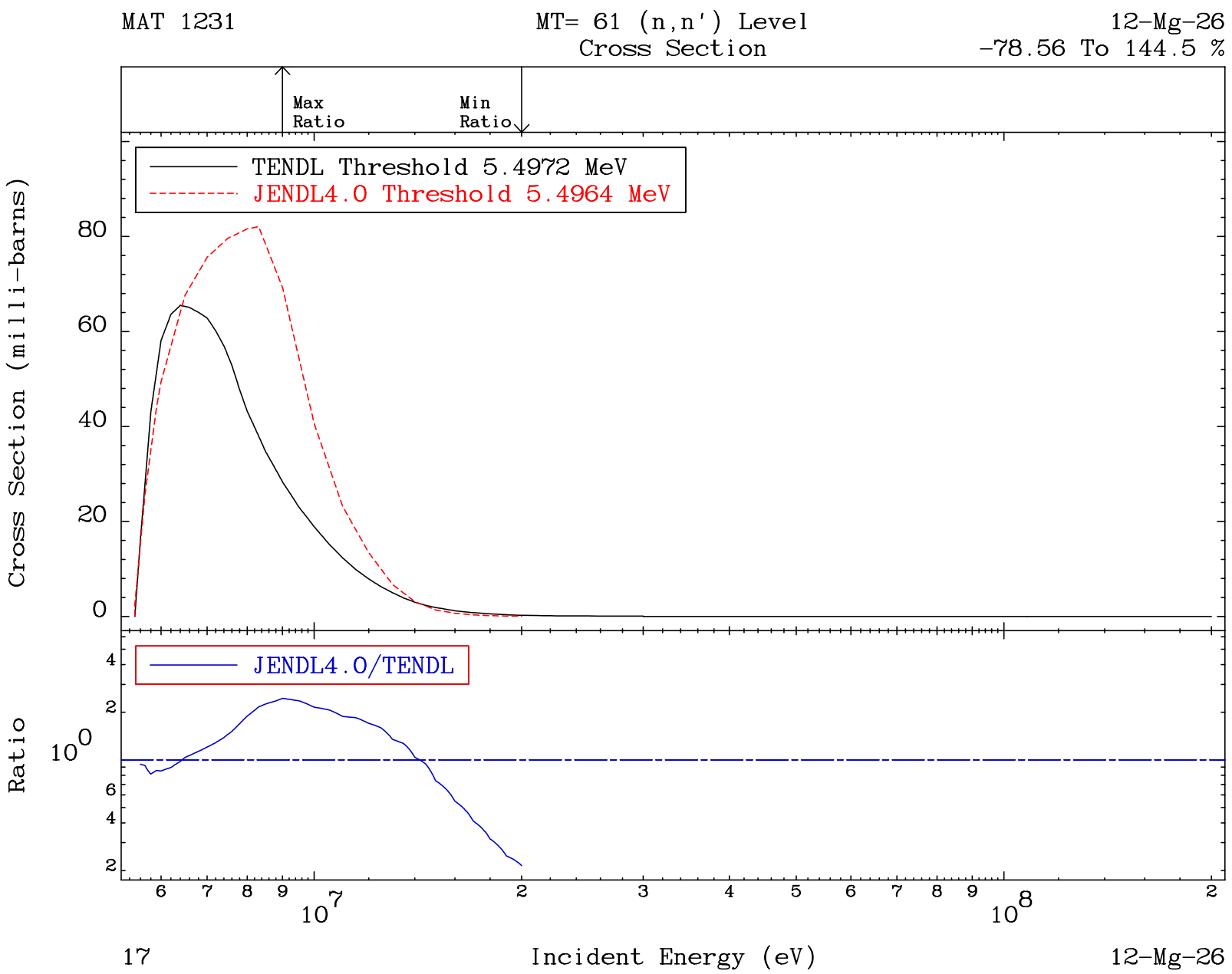

MAT 1231
MT= 56 (n,n') Level
Cross Section
12-Mg-26
-78.44 To 140.7 %
Max Ratio
Min Ratio
TENDL Threshold 4.5008 MeV
JENDL4.0 Threshold 4.5002 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
2
10^0
6
4
2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
12
Incident Energy (eV)
12-Mg-26

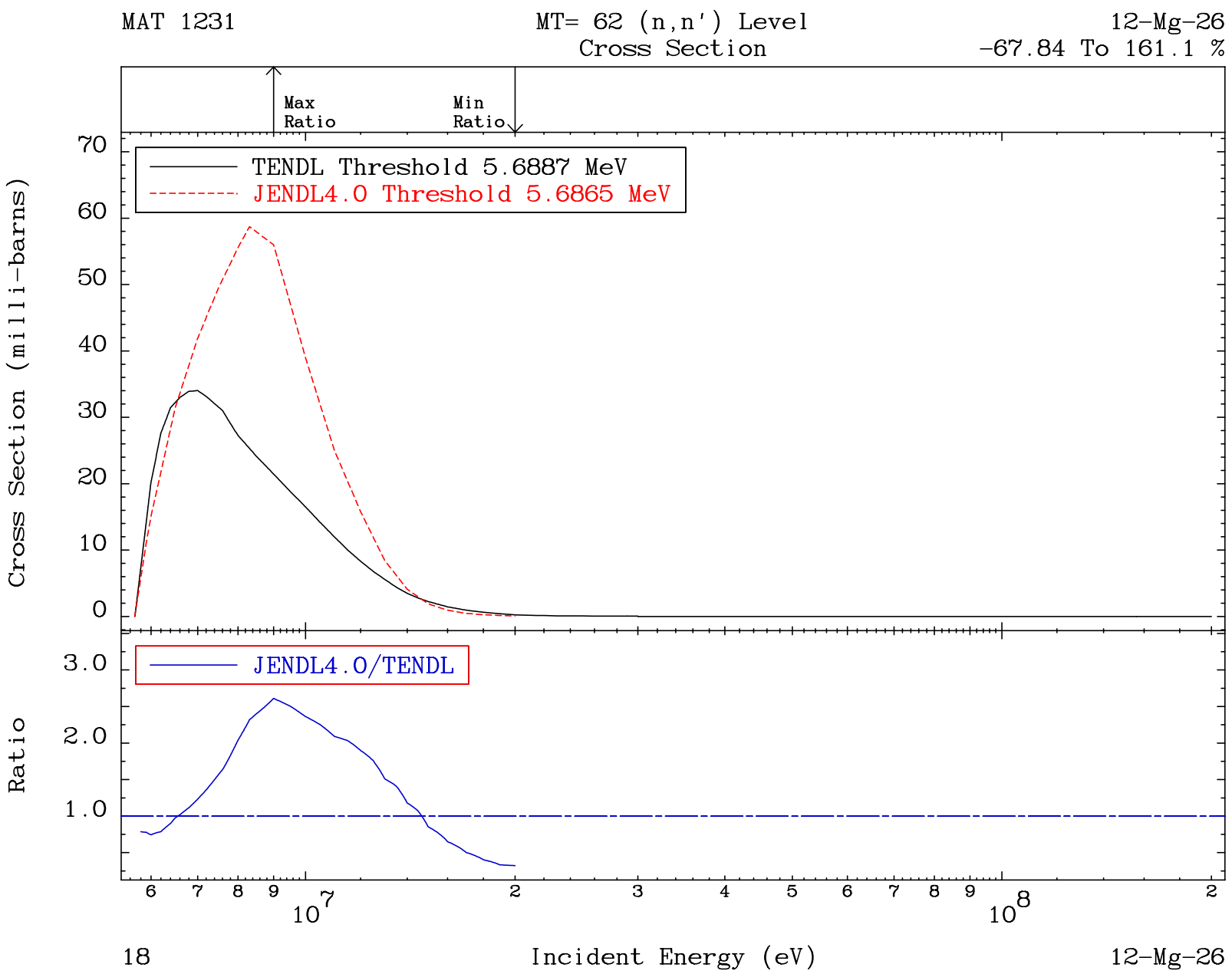

MAT 1231
MT= 57 (n,n') Level
Cross Section
12-Mg-26
-63.94 To 143.3 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.5190 MeV
JENDL4.0 Threshold 4.5190 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
Ratio
JENDL4.0/TENDL
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
13
Incident Energy (eV)
12-Mg-26

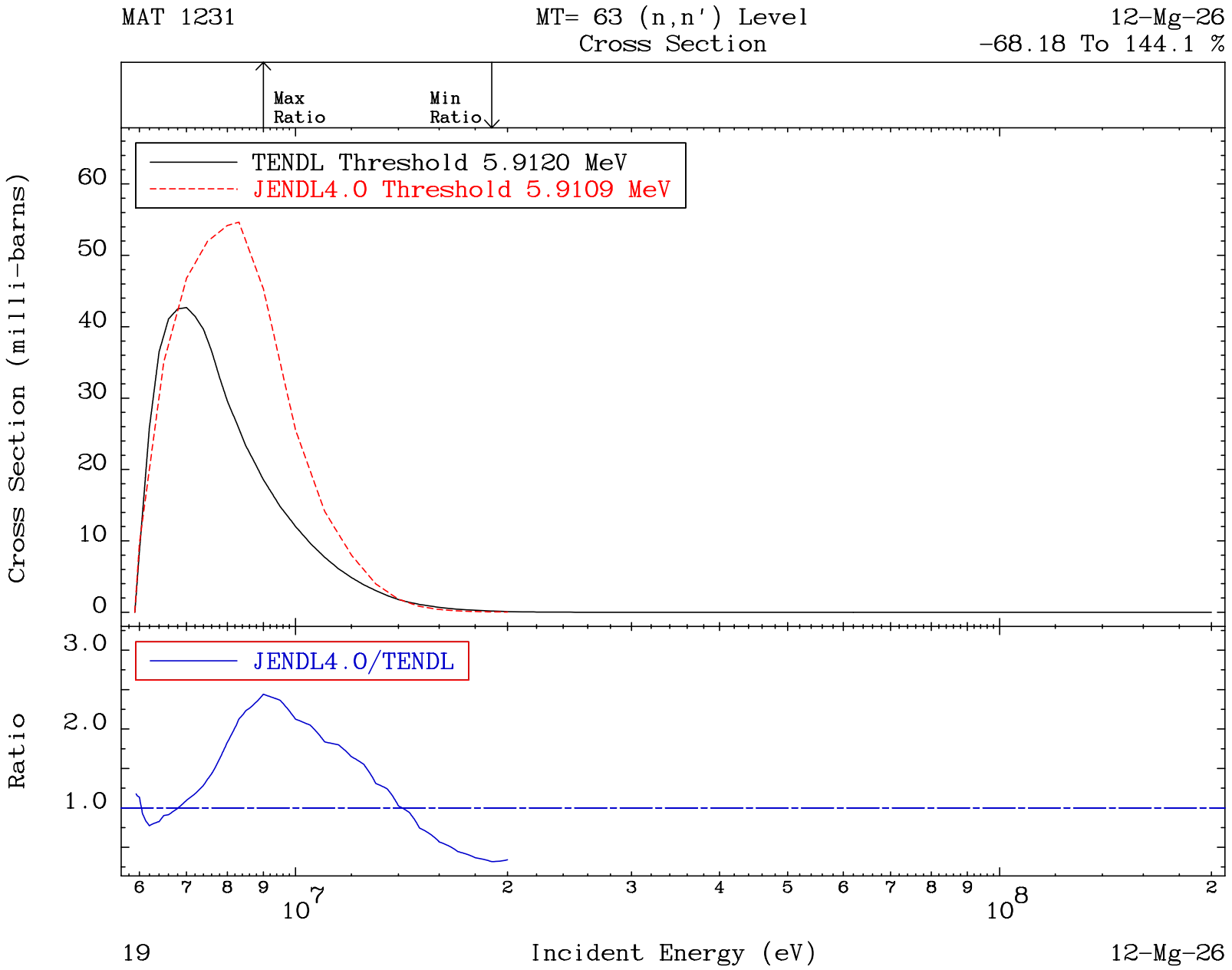

MAT 1231
MT= 58 (n,n') Level
Cross Section
12-Mg-26
-78.52 To 143.0 %
Max
Ratio
Min
Ratio
TENDL Threshold 5.0228 MeV
JENDL4.0 Threshold 5.0217 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
2
10^0
6
4
2
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
14
Incident Energy (eV)
12-Mg-26

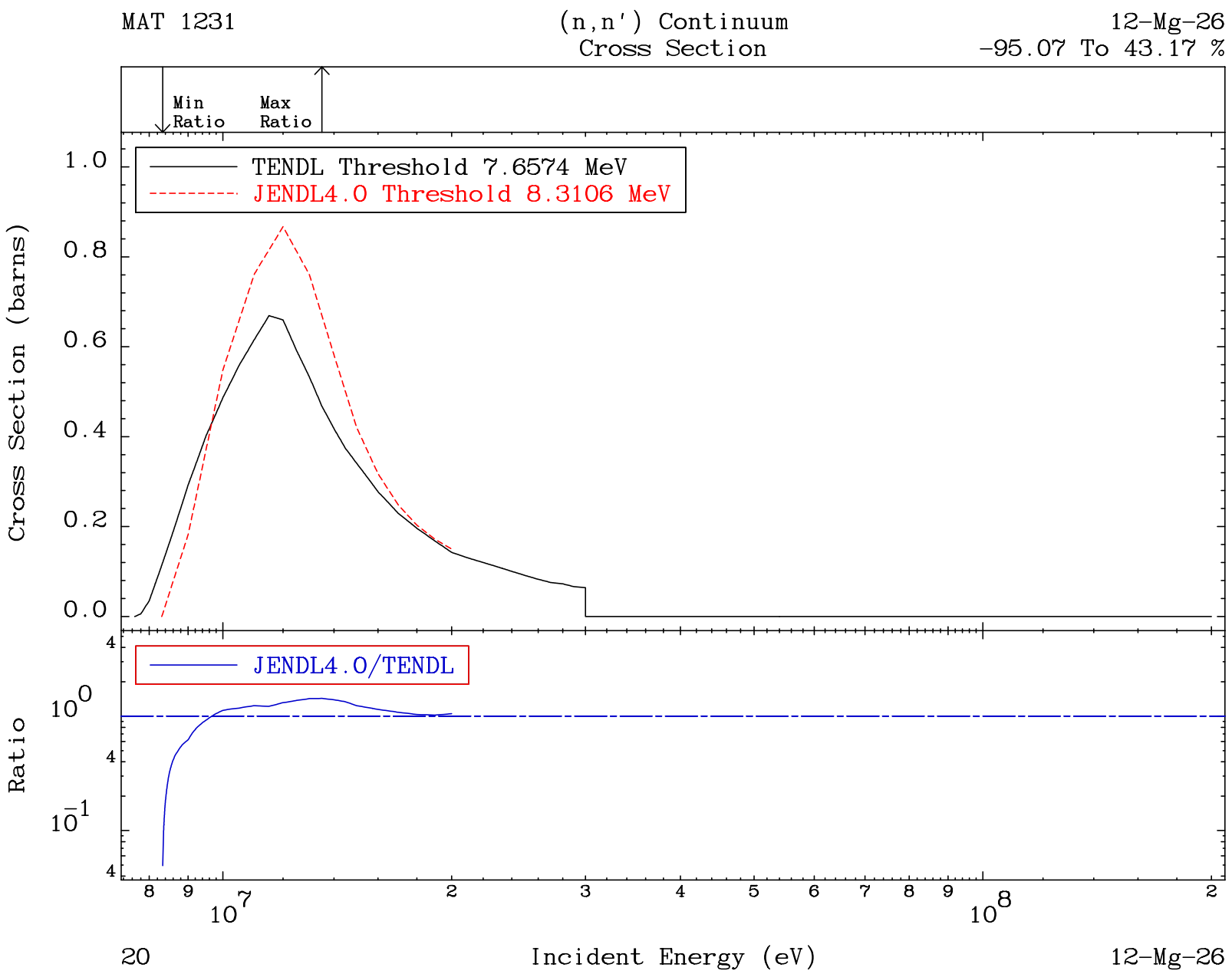

MAT 1231
MT= 59 (n,n') Level
Cross Section
12-Mg-26
-67.71 To 156.7 %
Max Ratio
Min Ratio
TENDL Threshold 5.0916 MeV
JENDL4.0 Threshold 5.0902 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
15
Incident Energy (eV)
12-Mg-26

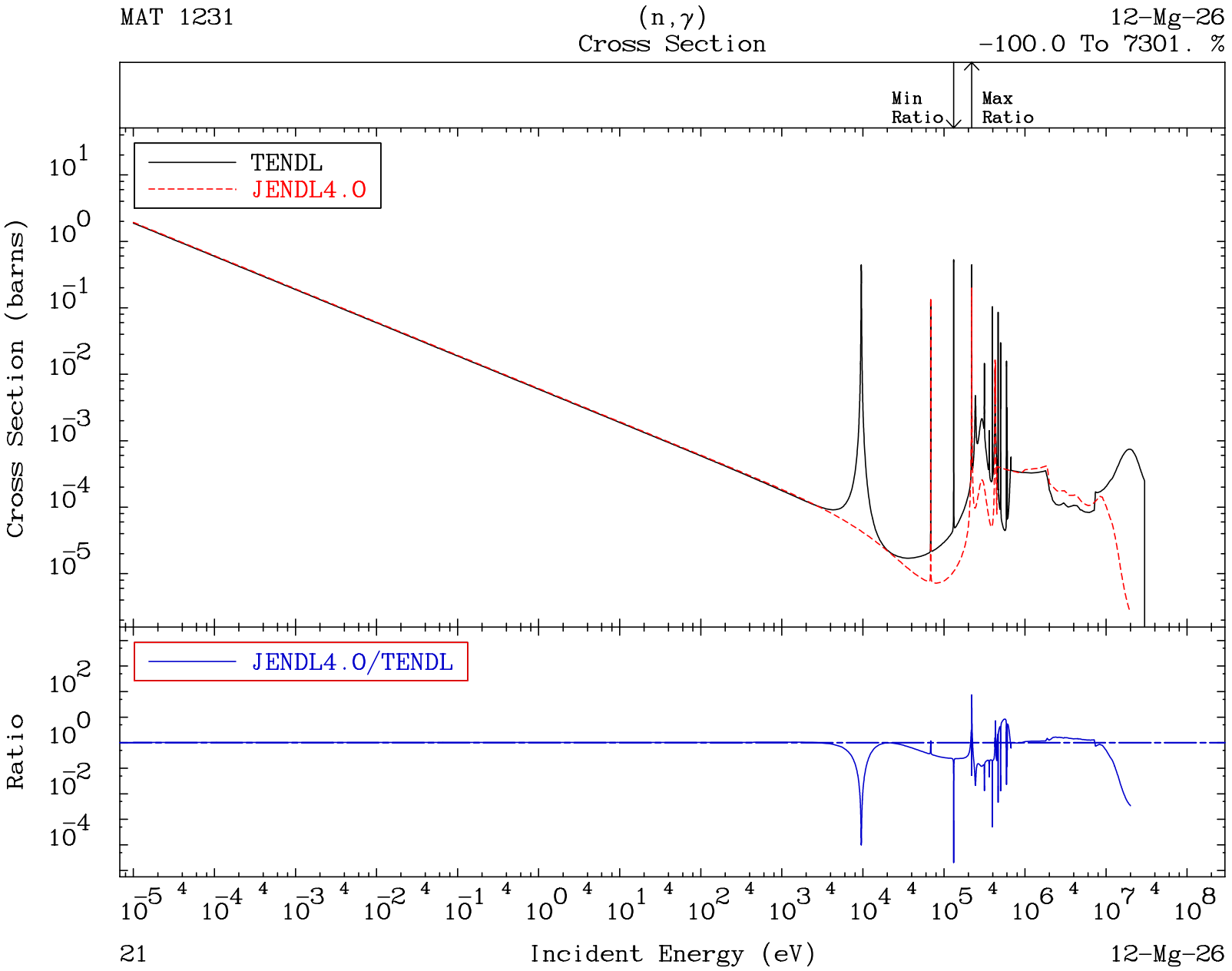

MAT 1231
MT= 60 (n,n') Level
Cross Section
12-Mg-26
-68.74 To 150.5 %
Max Ratio
Min Ratio
TENDL Threshold 5.1653 MeV
JENDL4.0 Threshold 5.1653 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
16
Incident Energy (eV)
12-Mg-26

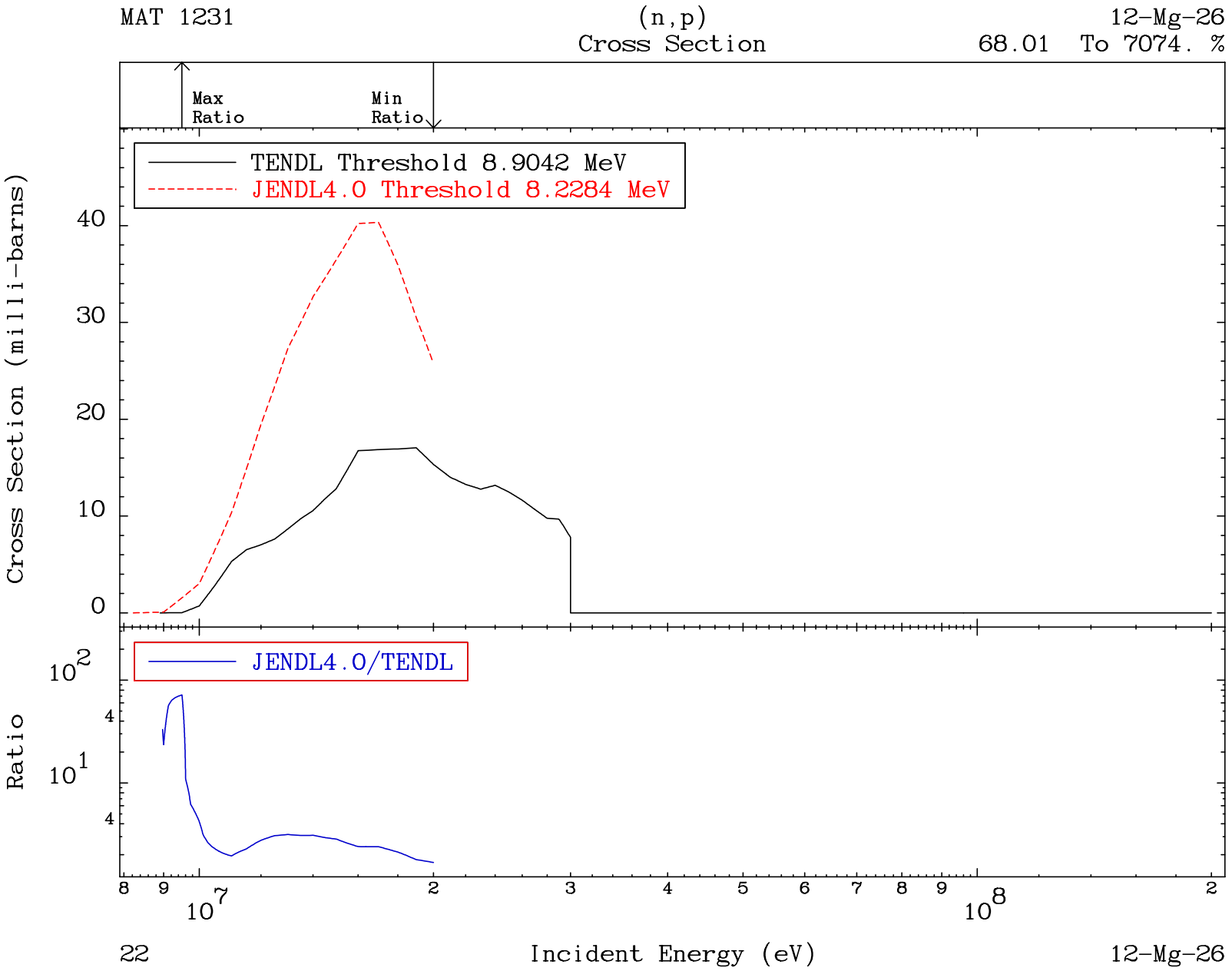

MAT 1231
MT= 61 (n,n') Level
Cross Section
12-Mg-26
-78.56 To 144.5 %
Max Ratio
Min Ratio
TENDL Threshold 5.4972 MeV
JENDL4.0 Threshold 5.4964 MeV
Cross Section (milli-barns)
80
60
40
20
0
JENDL4.0/TENDL
Ratio
4
2
10^0
6
4
2
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
17
Incident Energy (eV)
12-Mg-26

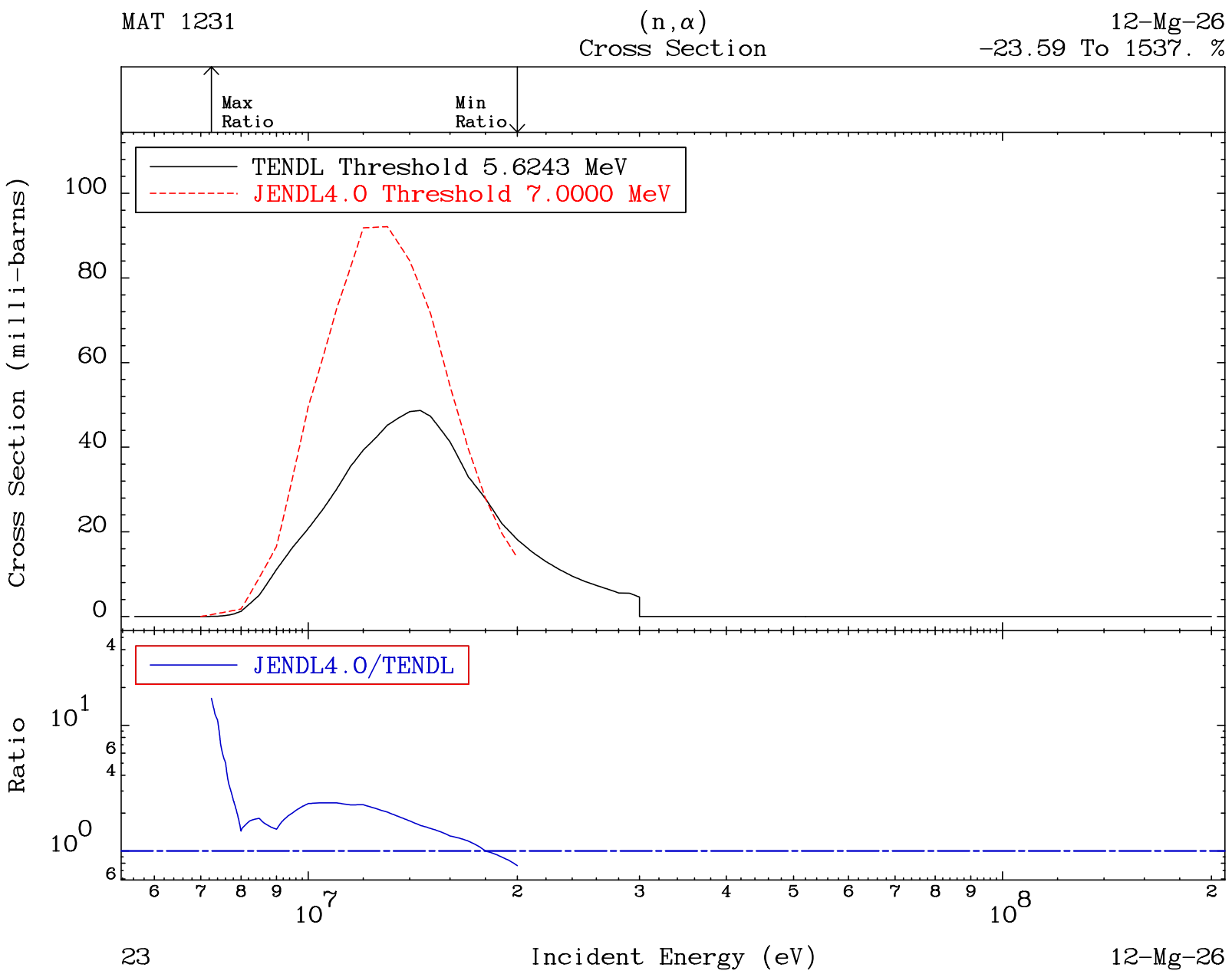

MAT 1231
MT= 62 (n,n') Level
Cross Section
12-Mg-26
-67.84 To 161.1 %
Max Ratio
Min Ratio
TENDL Threshold 5.6887 MeV
JENDL4.0 Threshold 5.6865 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
12-Mg-26

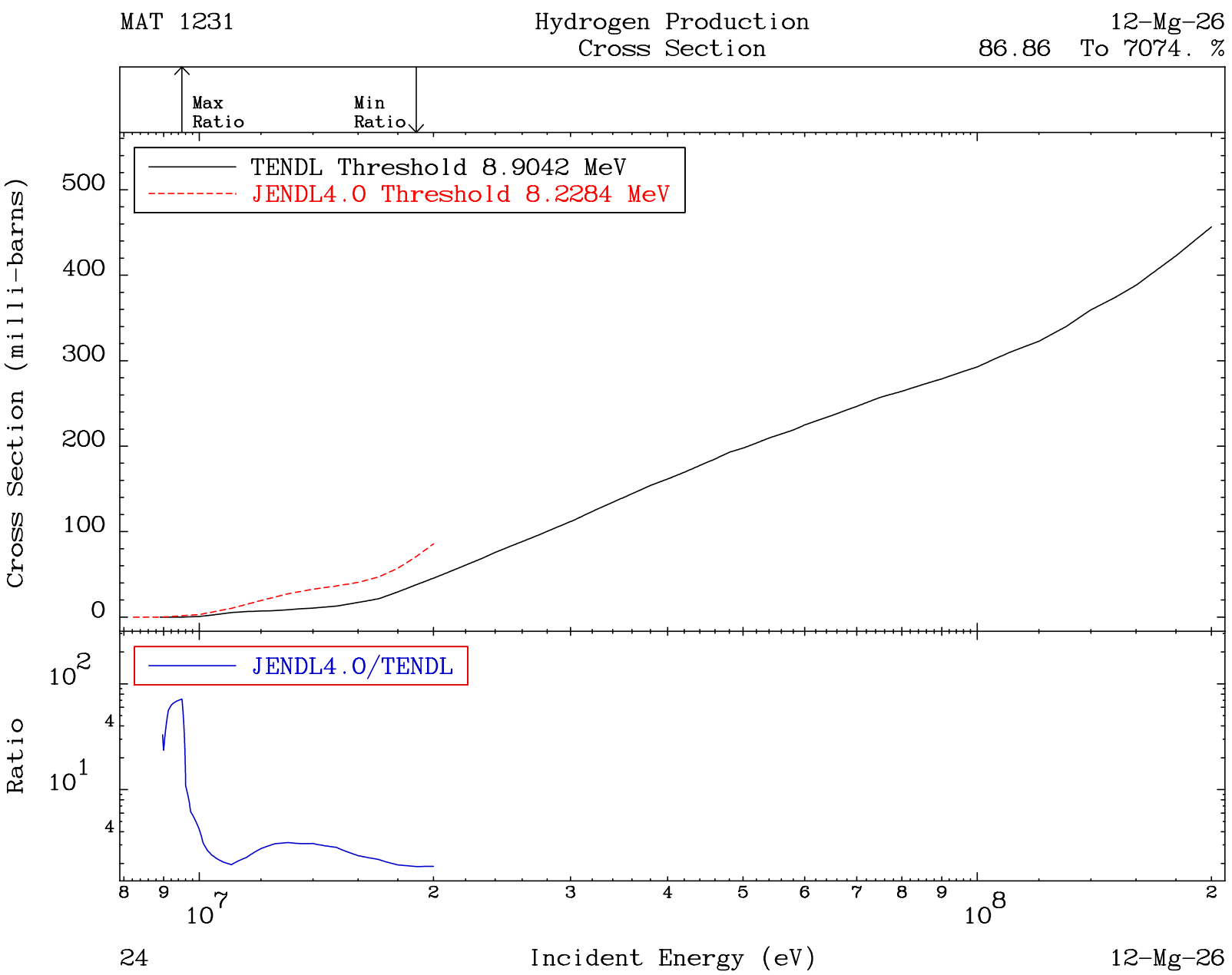

MAT 1231
MT= 63 (n,n') Level
Cross Section
12-Mg-26
-68.18 To 144.1 %
Max Ratio
Min Ratio
TENDL Threshold 5.9120 MeV
JENDL4.0 Threshold 5.9109 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
12-Mg-26

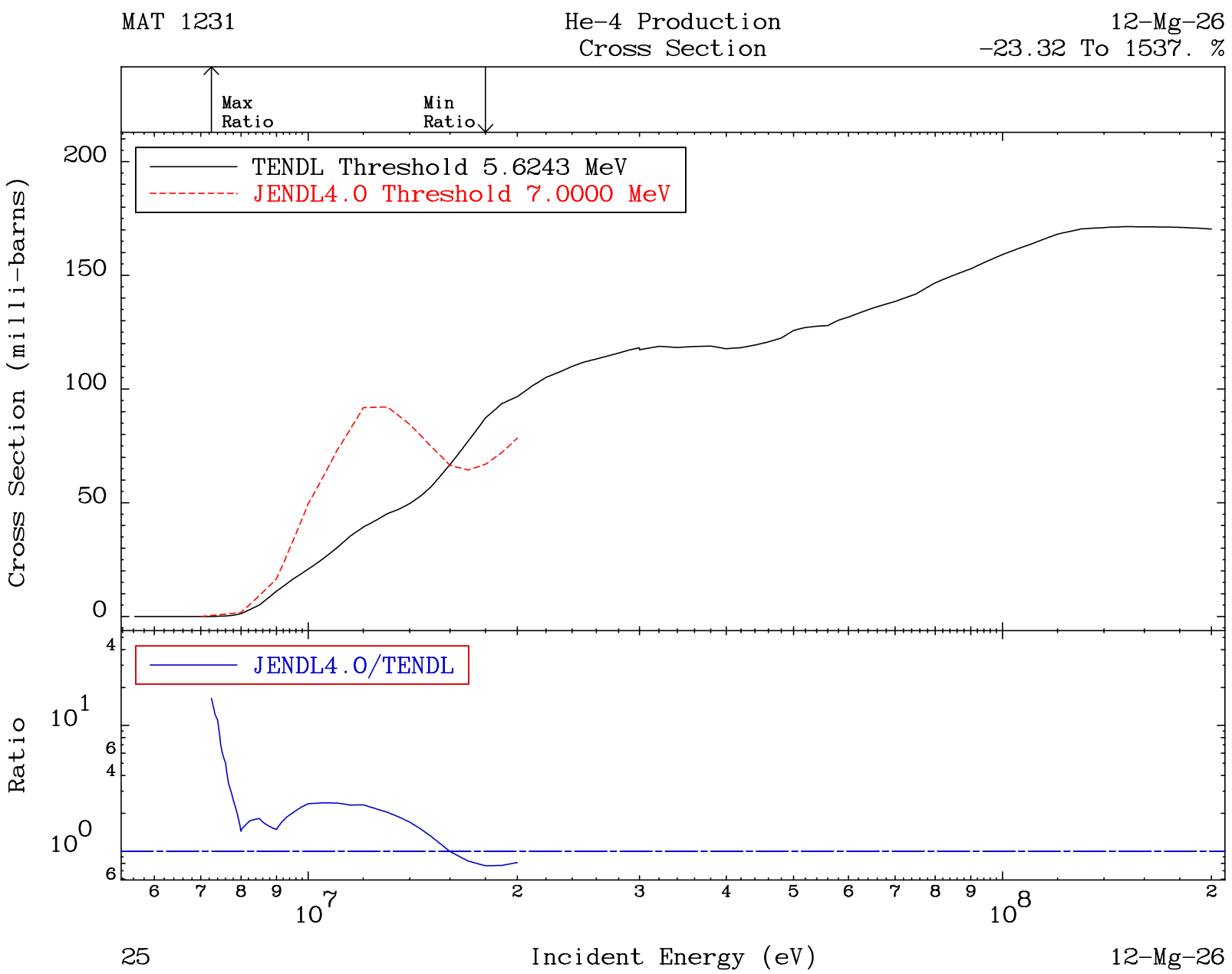

MAT 1231
(n,n') Continuum
Cross Section
12-Mg-26
-95.07 To 43.17 %
Min Ratio
Max Ratio
TENDL Threshold 7.6574 MeV
JENDL4.0 Threshold 8.3106 MeV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^0
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
12-Mg-26

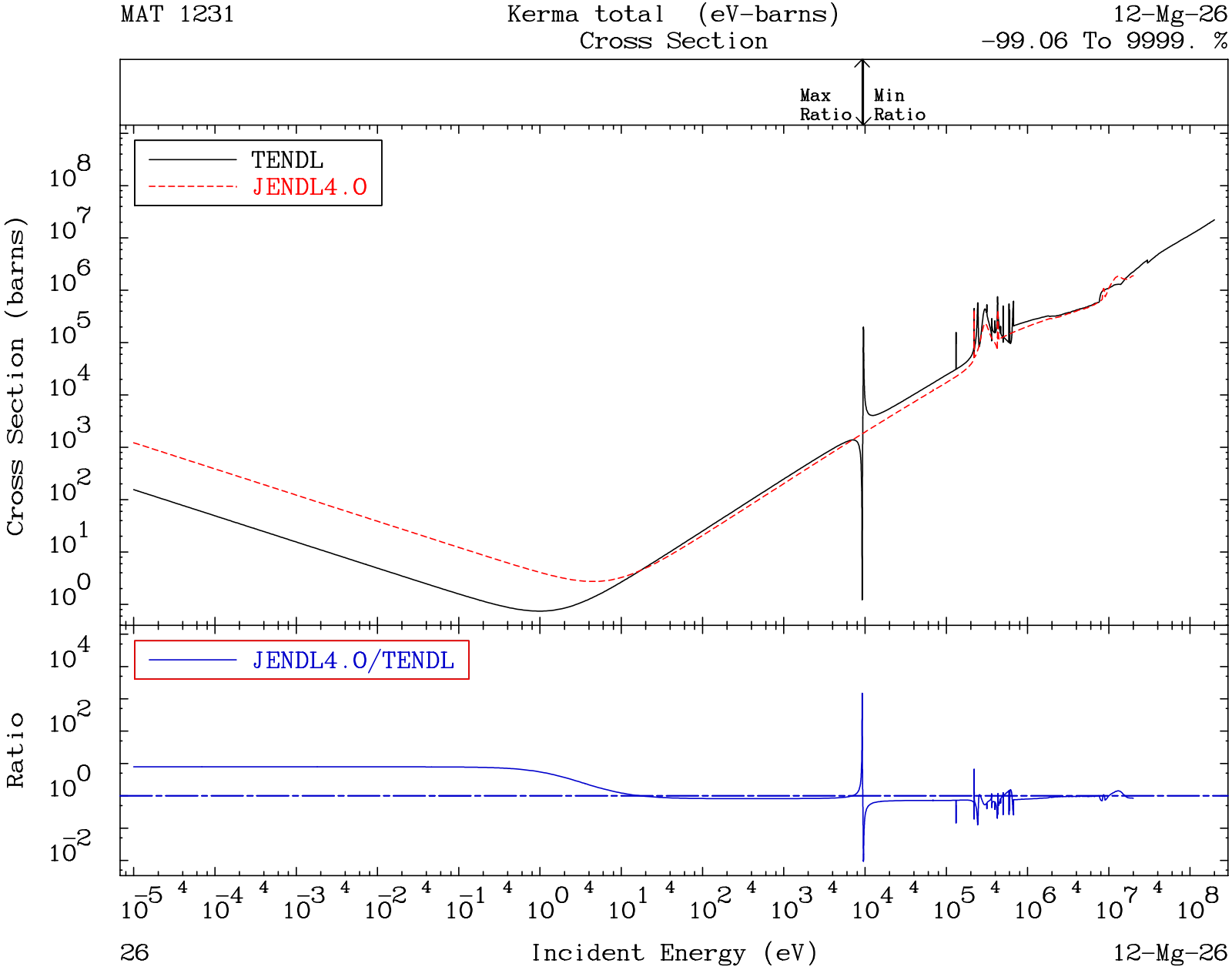

MAT 1231
(n,γ)
Cross Section
12-Mg-26
-100.0 To 7301. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
21
12-Mg-26

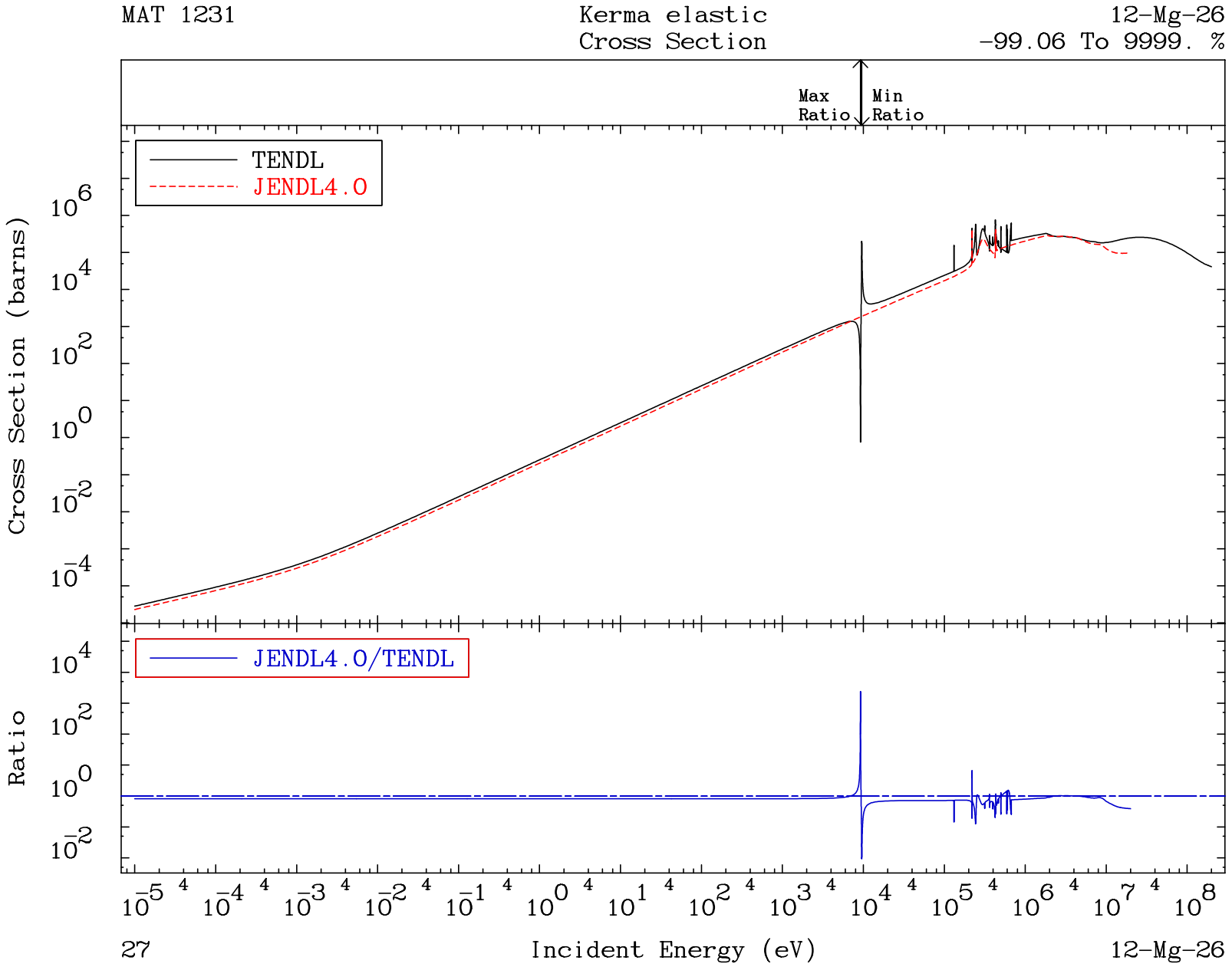

MAT 1231
(n,p)
Cross Section
12-Mg-26
68.01 To 7074. %
Max Ratio
Min Ratio
TENDL Threshold 8.9042 MeV
JENDL4.0 Threshold 8.2284 MeV
Cross Section (milli-barns)
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^2
4
10^1
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
12-Mg-26

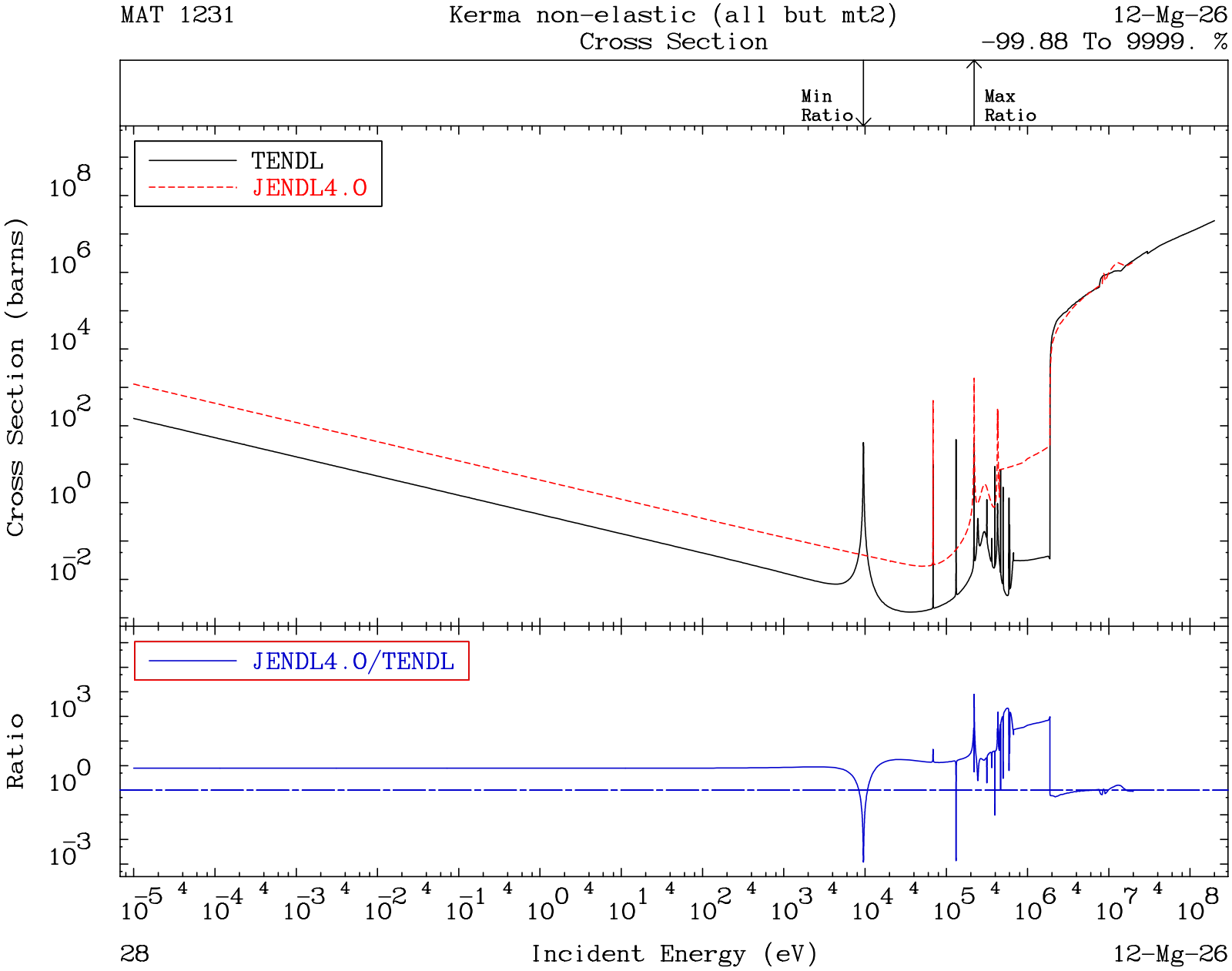

MAT 1231
(n,α)
Cross Section
12-Mg-26
-23.59 To 1537. %
Max Ratio
Min Ratio
TENDL Threshold 5.6243 MeV
JENDL4.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
23
12-Mg-26

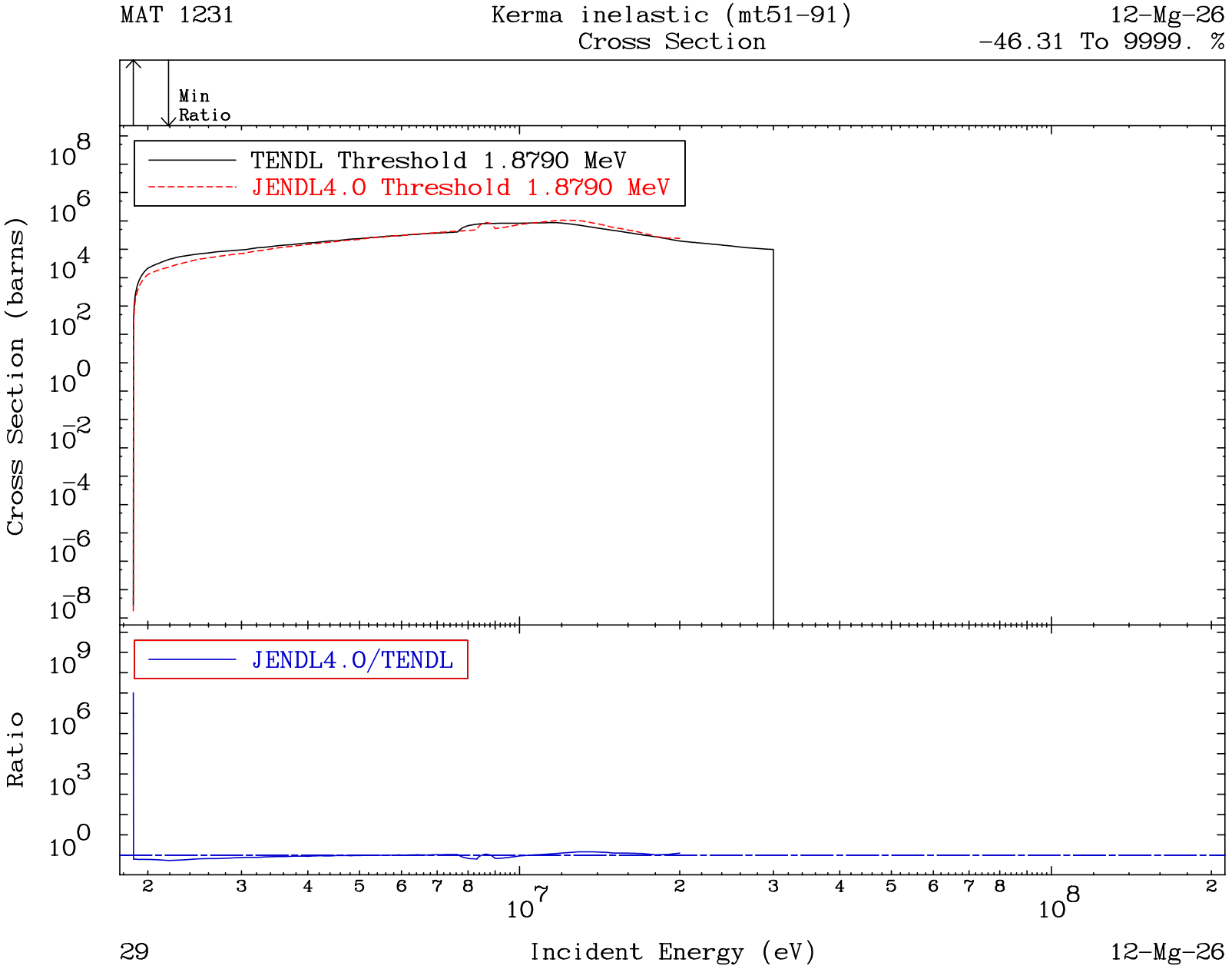

MAT 1231
Hydrogen Production
Cross Section
12-Mg-26
86.86 To 7074. %
Max Ratio
Min Ratio
TENDL Threshold 8.9042 MeV
JENDL4.0 Threshold 8.2284 MeV
Cross Section (milli-barns)
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
10^2
4
10^1
4
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
12-Mg-26

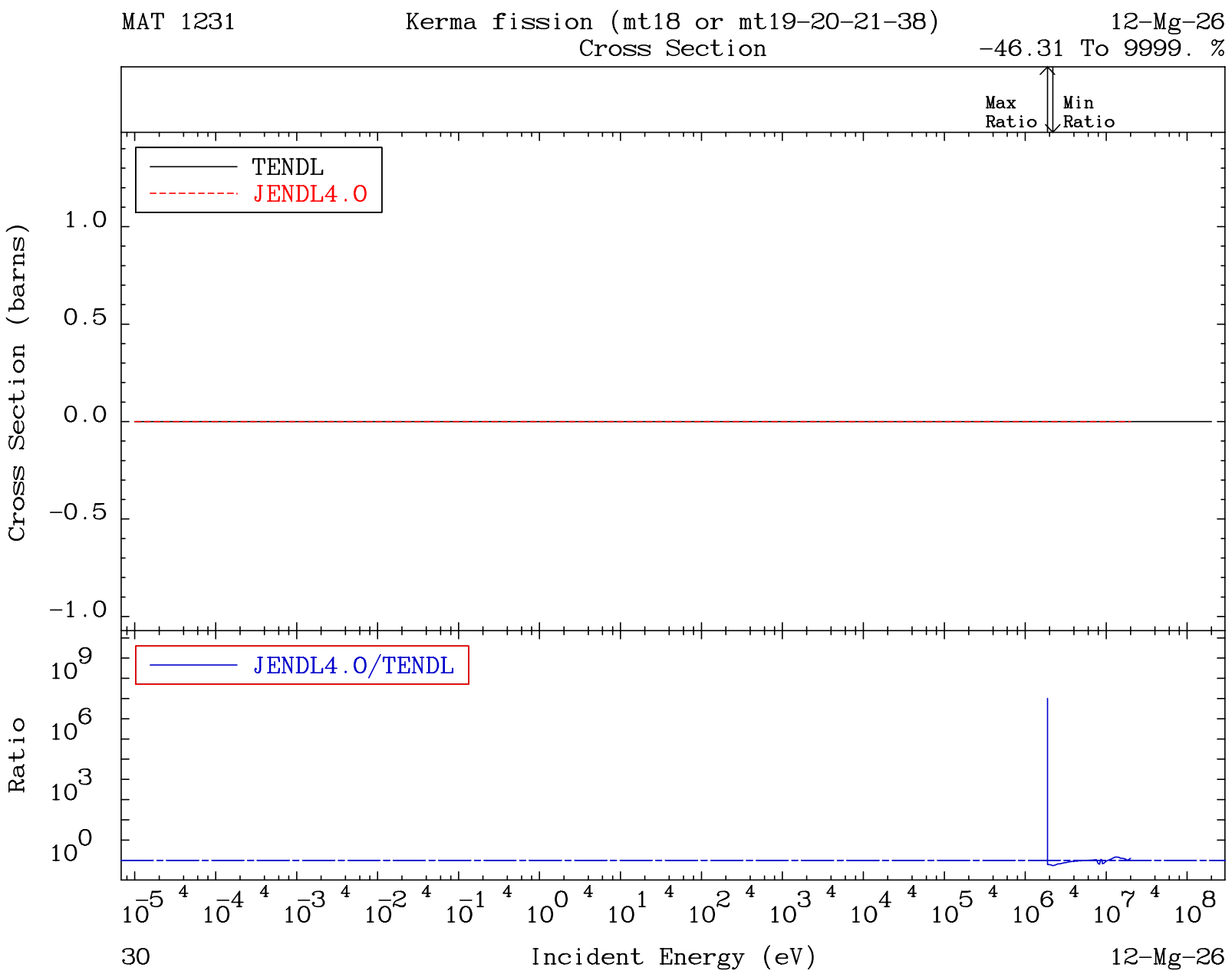

MAT 1231
He-4 Production
Cross Section
12-Mg-26
-23.32 To 1537. %
Max Ratio
Min Ratio
TENDL Threshold 5.6243 MeV
JENDL4.0 Threshold 7.0000 MeV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
4
10^1
6
4
10^0
6
6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
12-Mg-26

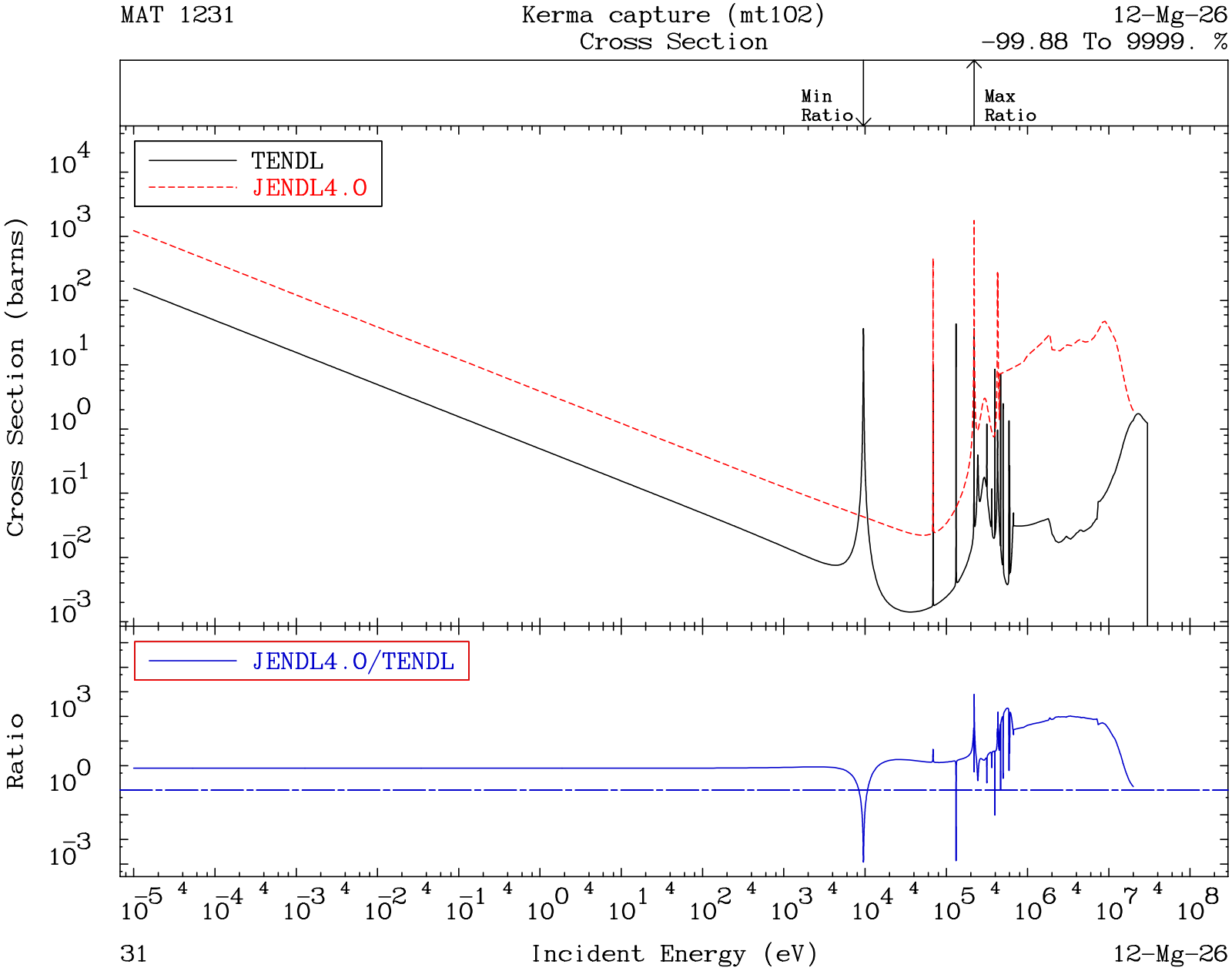

MAT 1231
Kerma total (eV-barns)
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
26
12-Mg-26

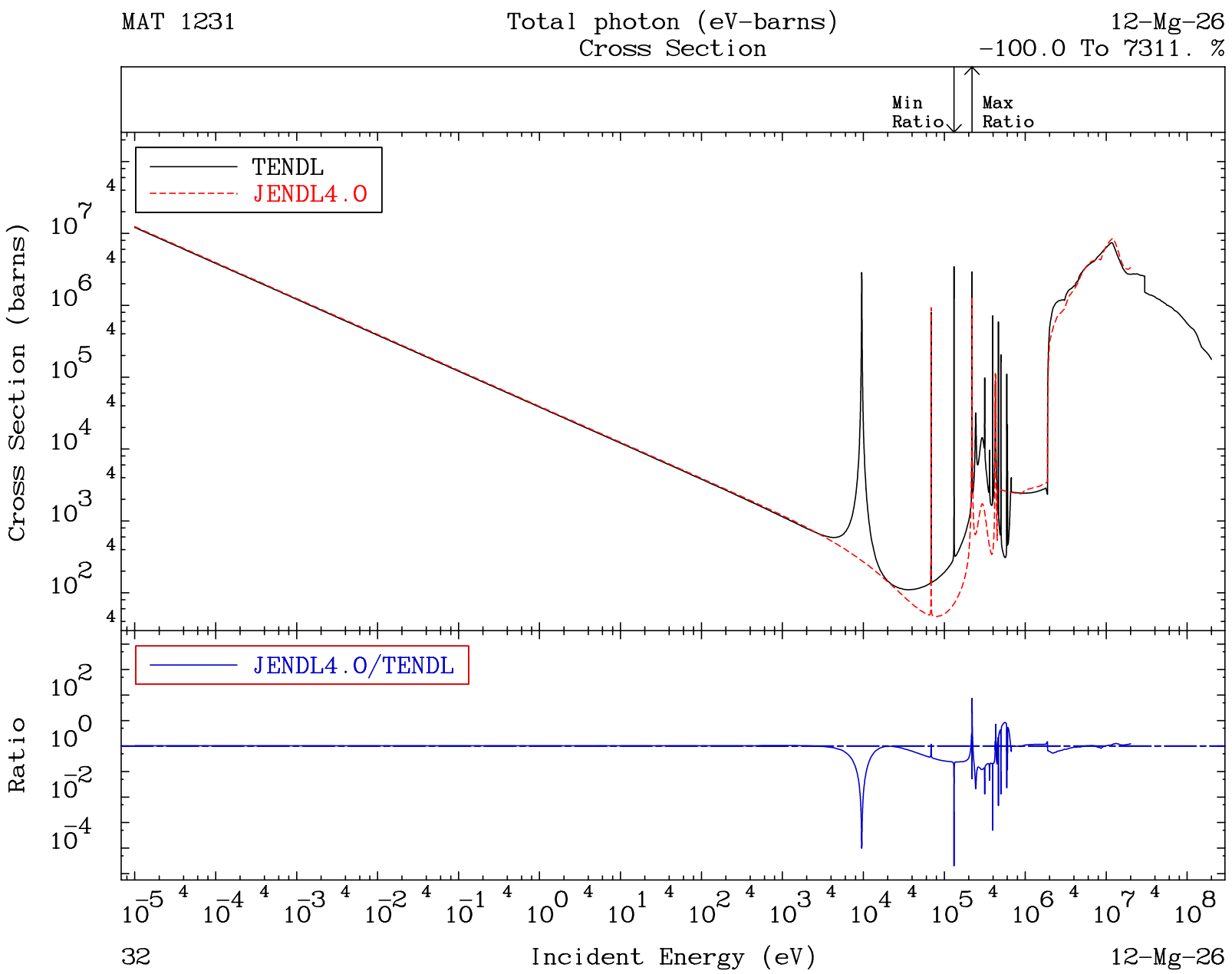

MAT 1231
Kerma elastic
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
27
12-Mg-26

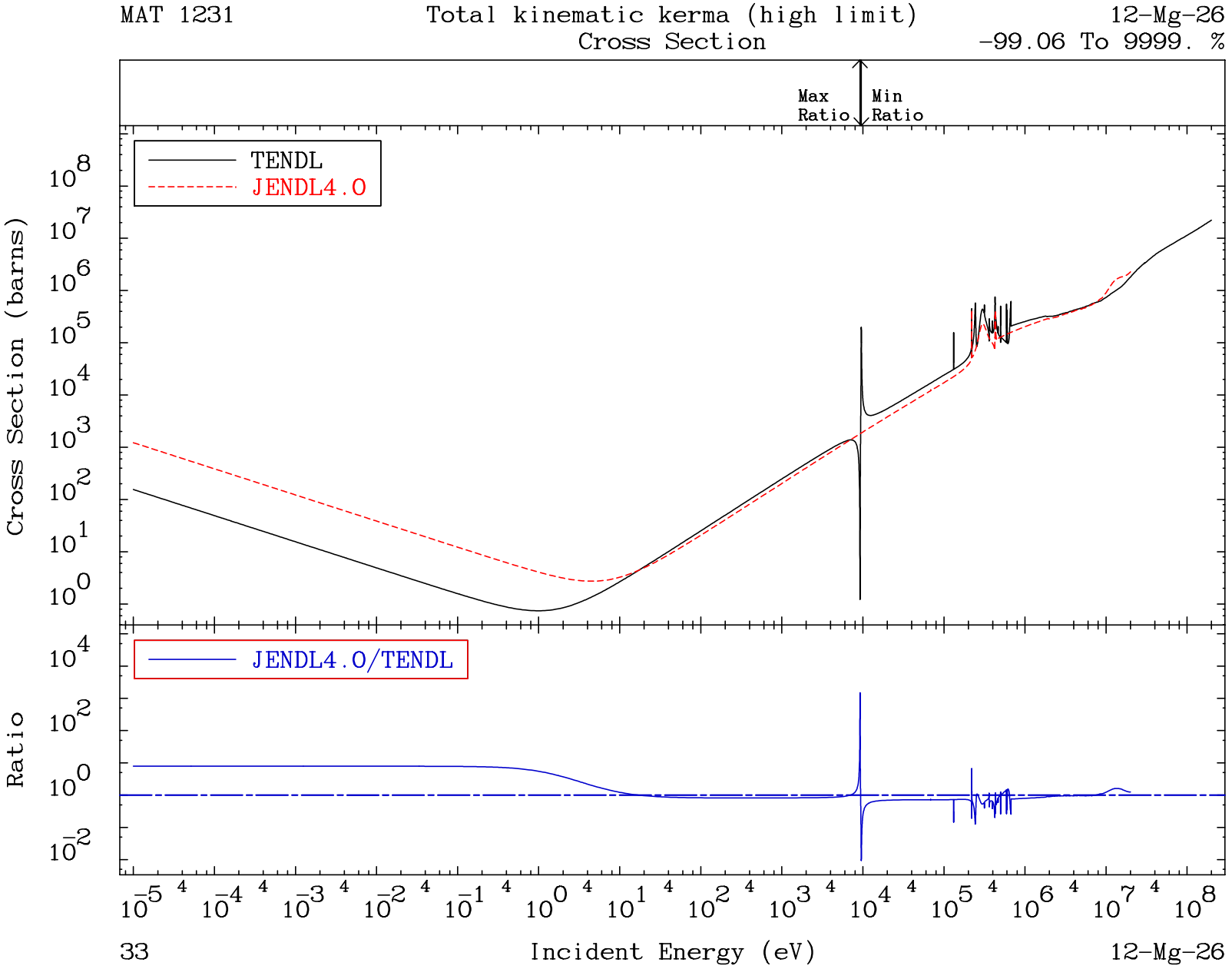

MAT 1231
Kerma non-elastic (all but mt2)
Cross Section
12-Mg-26
-99.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
28
12-Mg-26

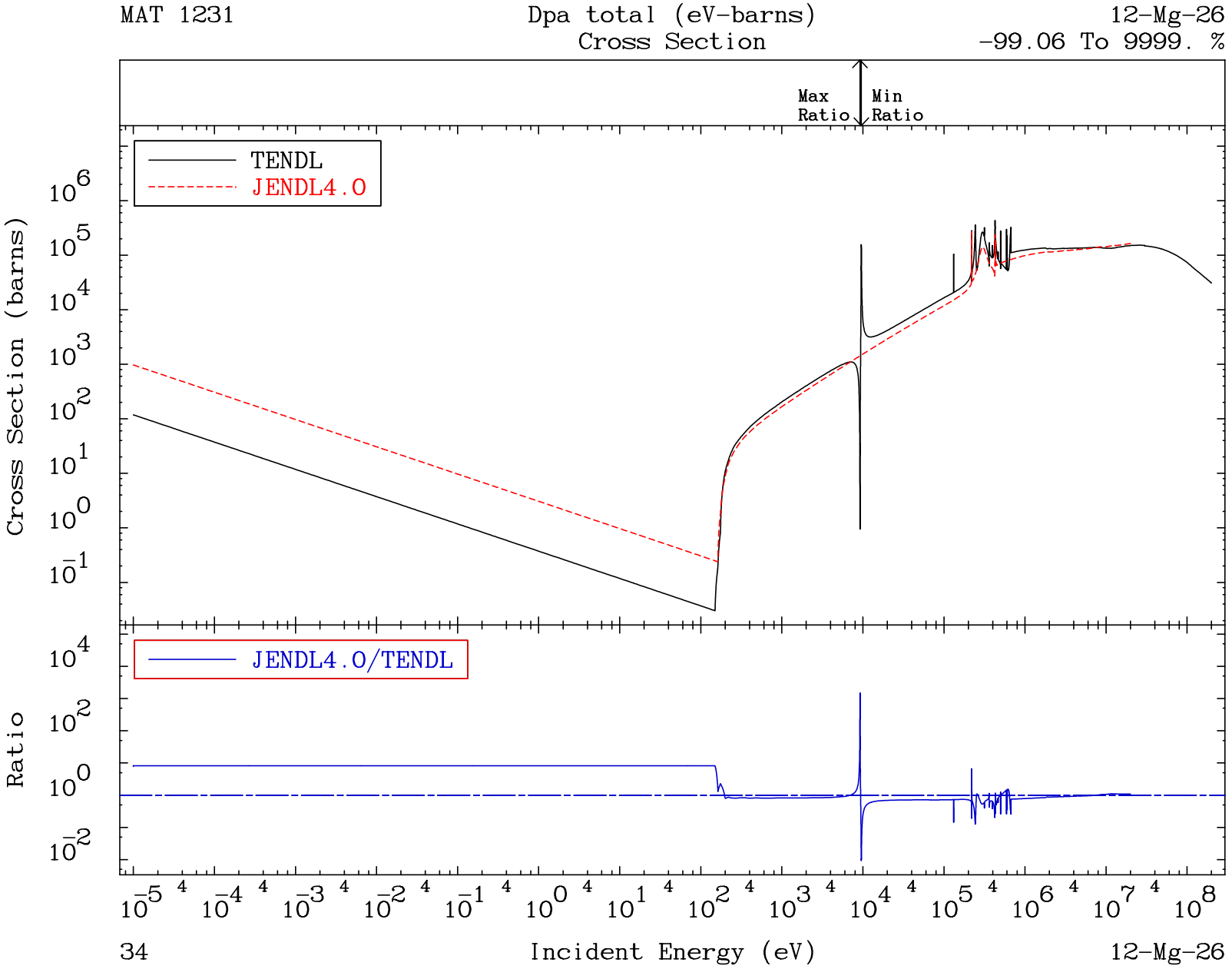

MAT 1231
Kerma inelastic (mt51-91)
Cross Section
12-Mg-26
-46.31 To 9999. %
Min
Ratio
TENDL Threshold 1.8790 MeV
JENDL4.0 Threshold 1.8790 MeV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
29
12-Mg-26

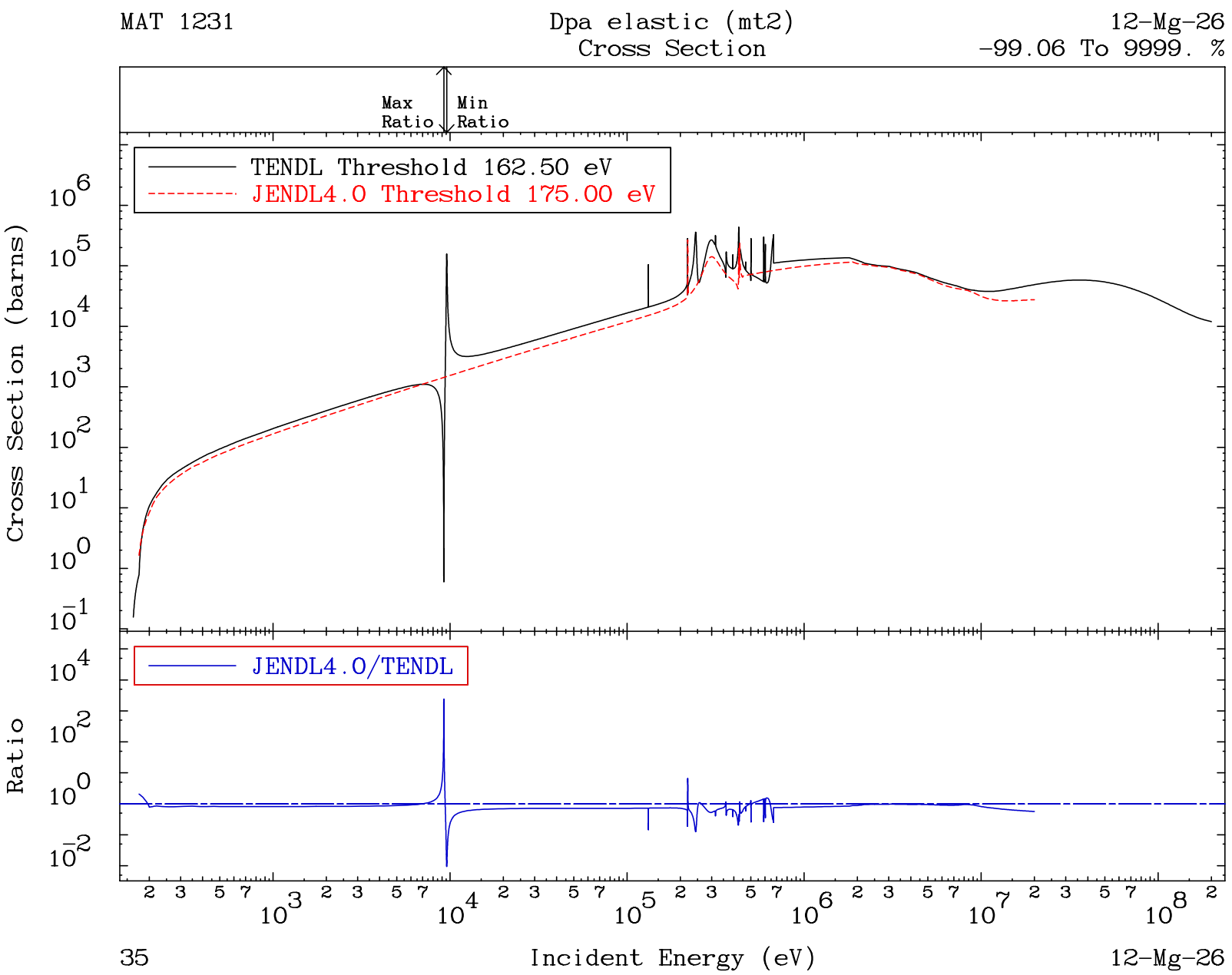

MAT 1231
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
12-Mg-26
-46.31 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
30
Incident Energy (eV)
12-Mg-26

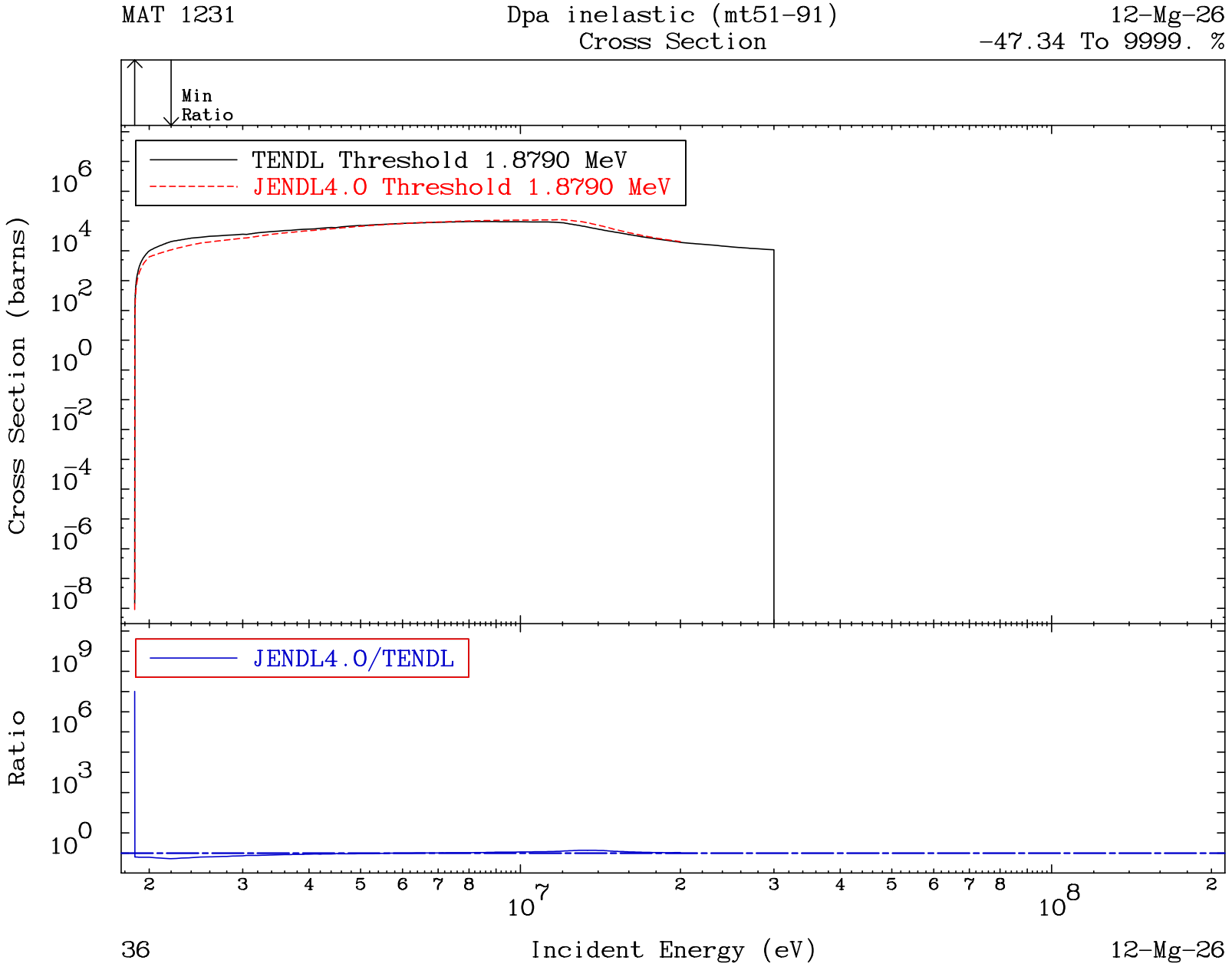

MAT 1231
Kerma capture (mt102)
Cross Section
12-Mg-26
-99.88 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
31
12-Mg-26

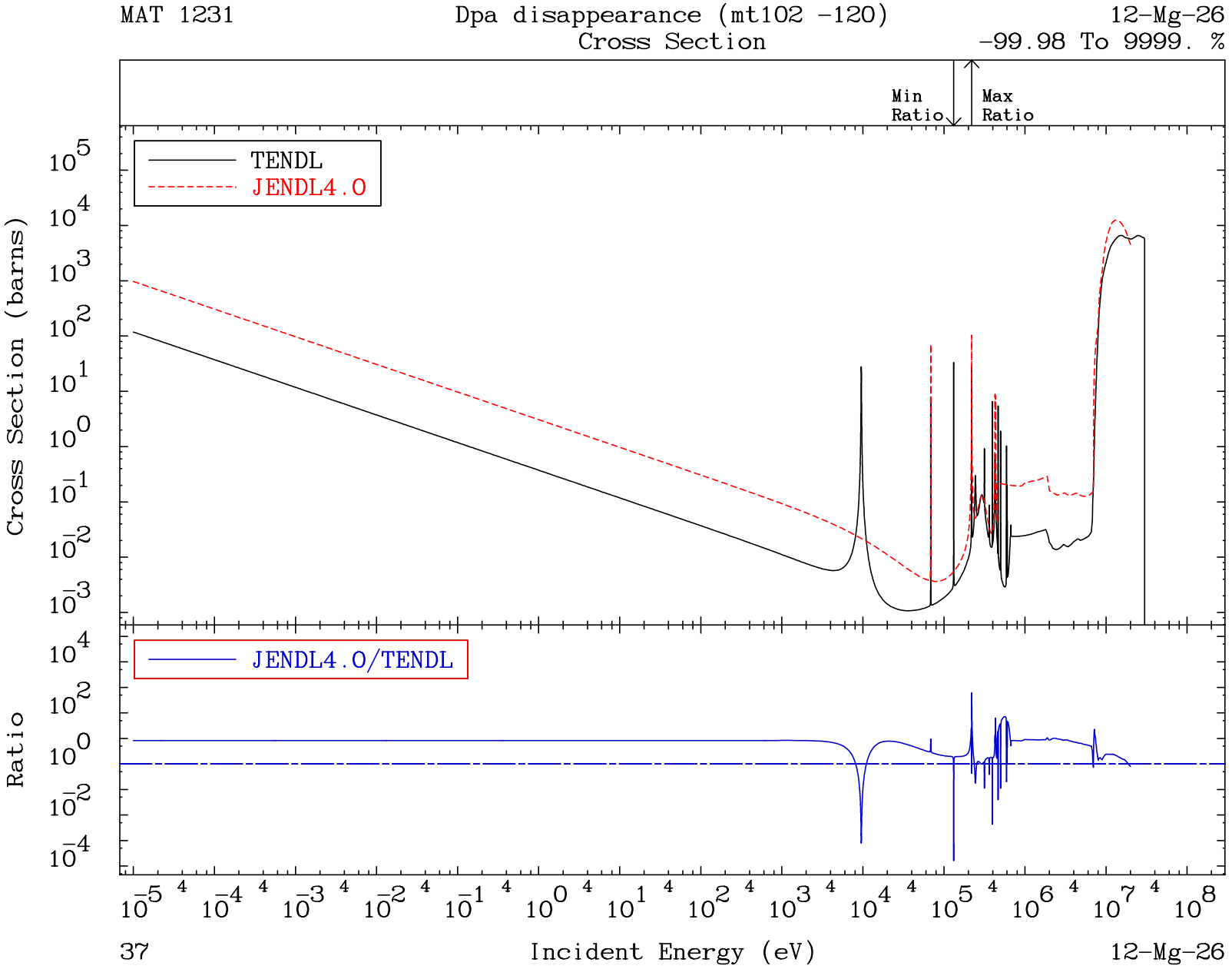

MAT 1231
Total photon (eV-barns)
Cross Section
12-Mg-26
-100.0 To 7311. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
12-Mg-26


MAT 1231
Total kinematic kerma (high limit)
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
33
12-Mg-26


MAT 1231
Dpa total (eV-barns)
Cross Section
12-Mg-26
-99.06 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
34
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
JENDL4.0 Threshold 175.00 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
35
12-Mg-26


MAT 1231
Dpa inelastic (mt51-91)
Cross Section
12-Mg-26
-47.34 To 9999. %
Min
Ratio
TENDL Threshold 1.8790 MeV
JENDL4.0 Threshold 1.8790 MeV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
12-Mg-26


MAT 1231
Dpa disappearance (mt102 -120)
Cross Section
12-Mg-26
-99.98 To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
37
12-Mg-26