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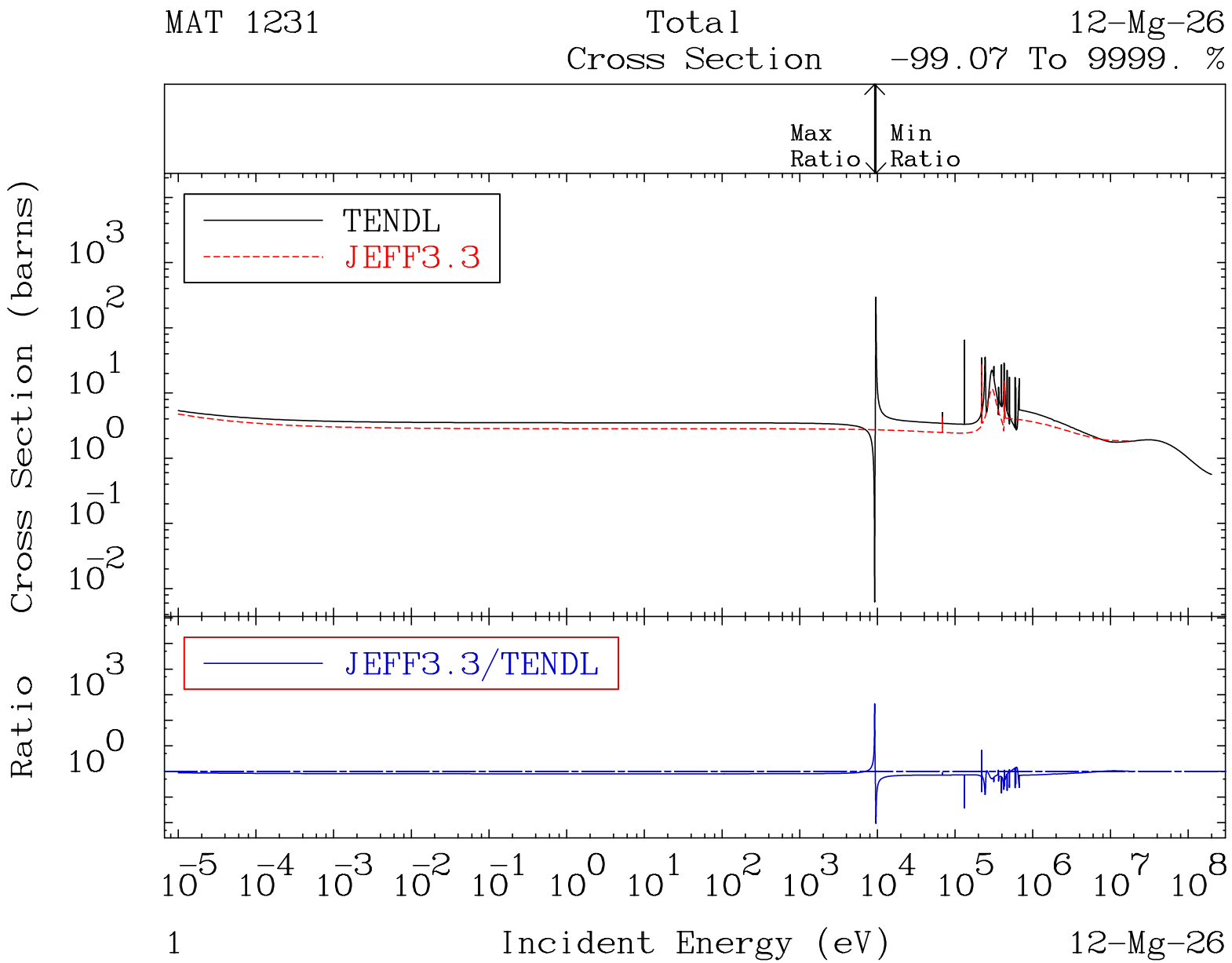
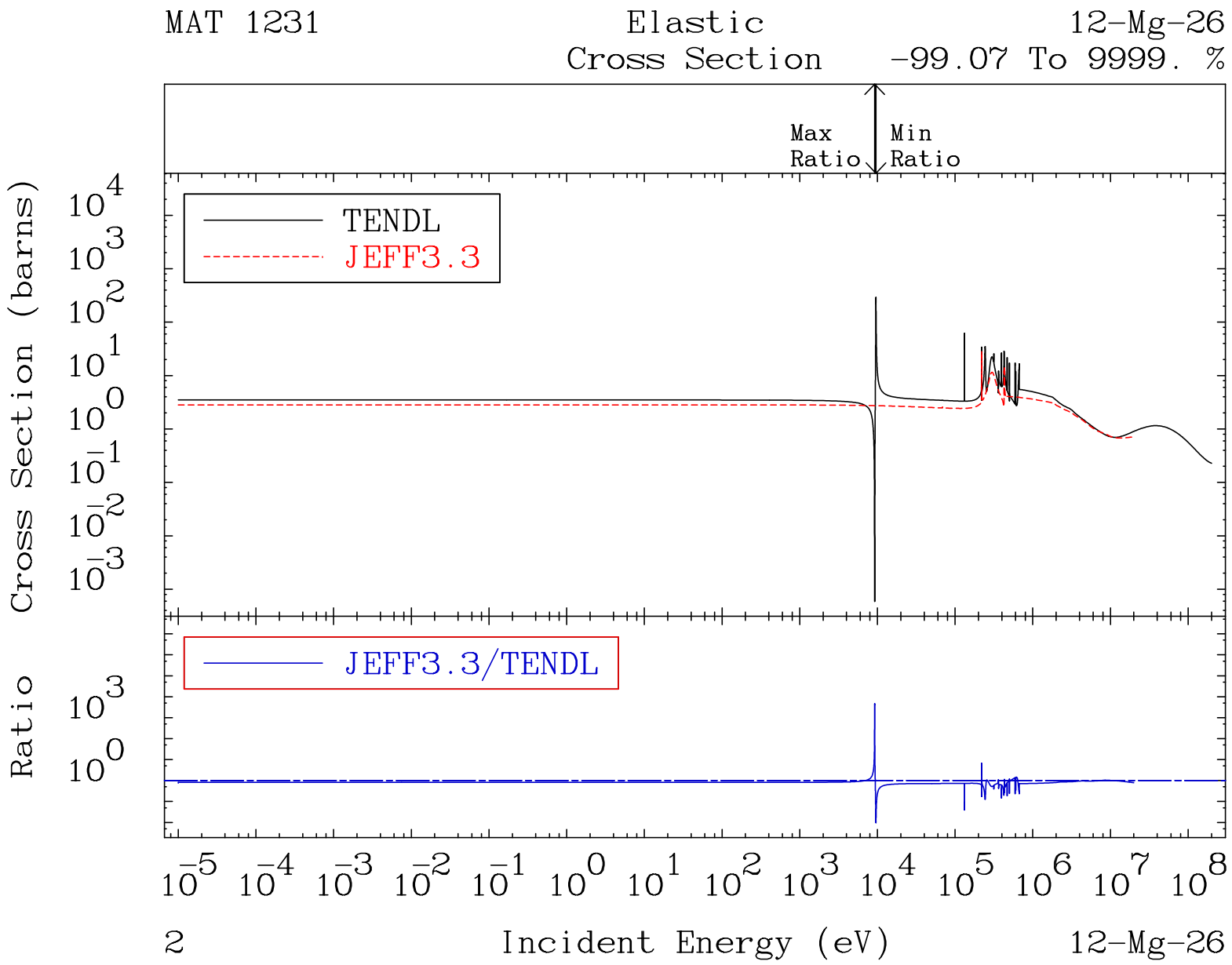
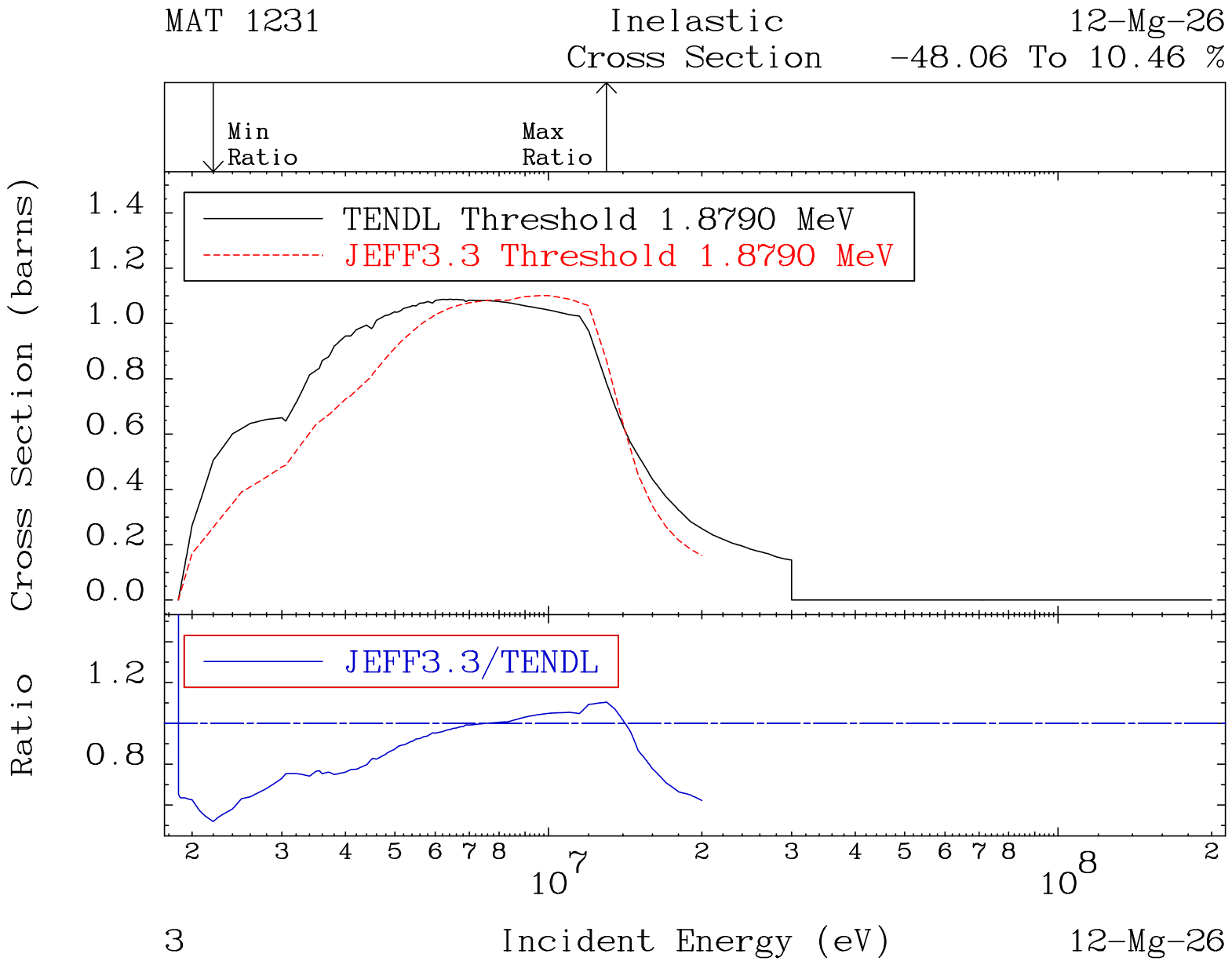
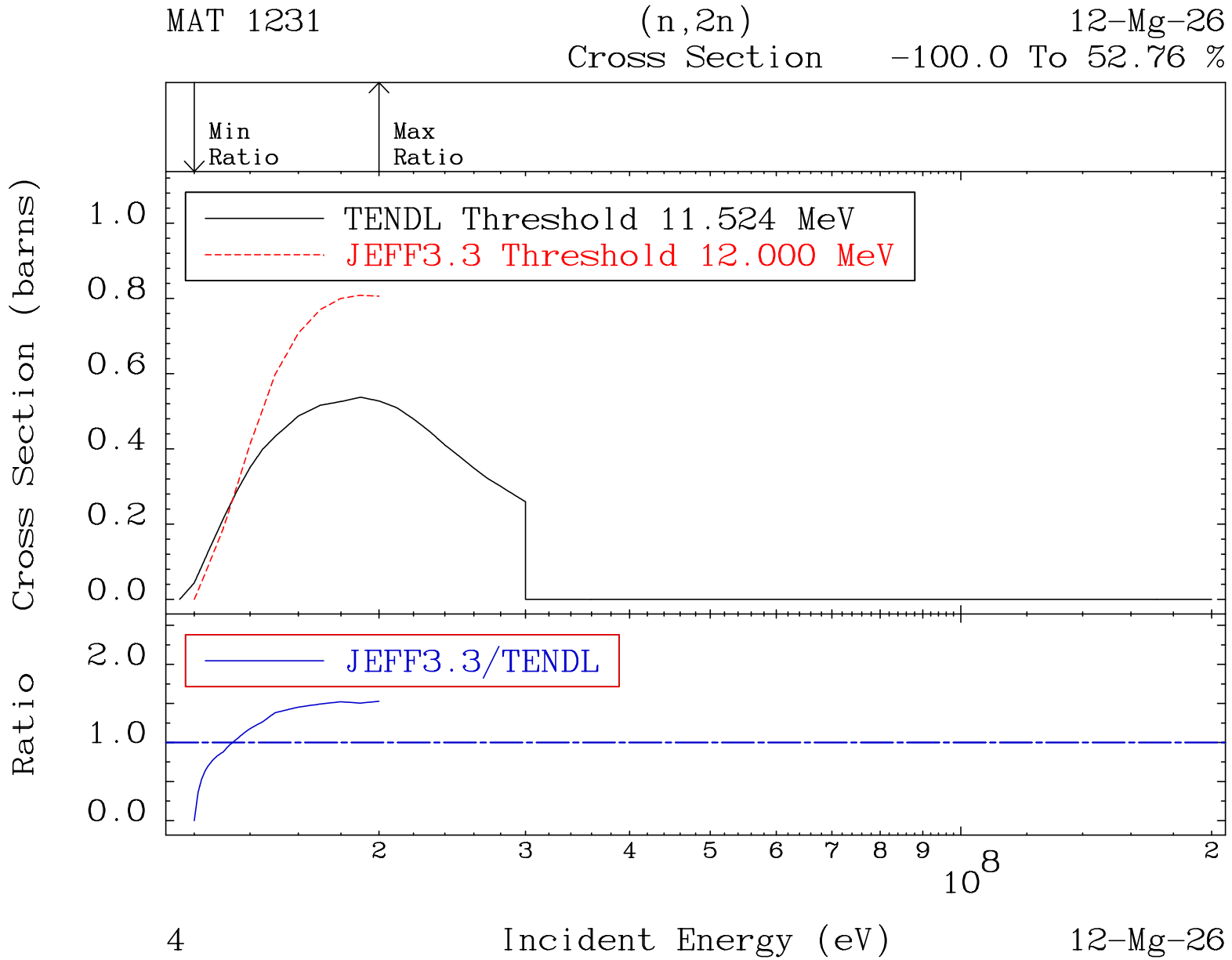
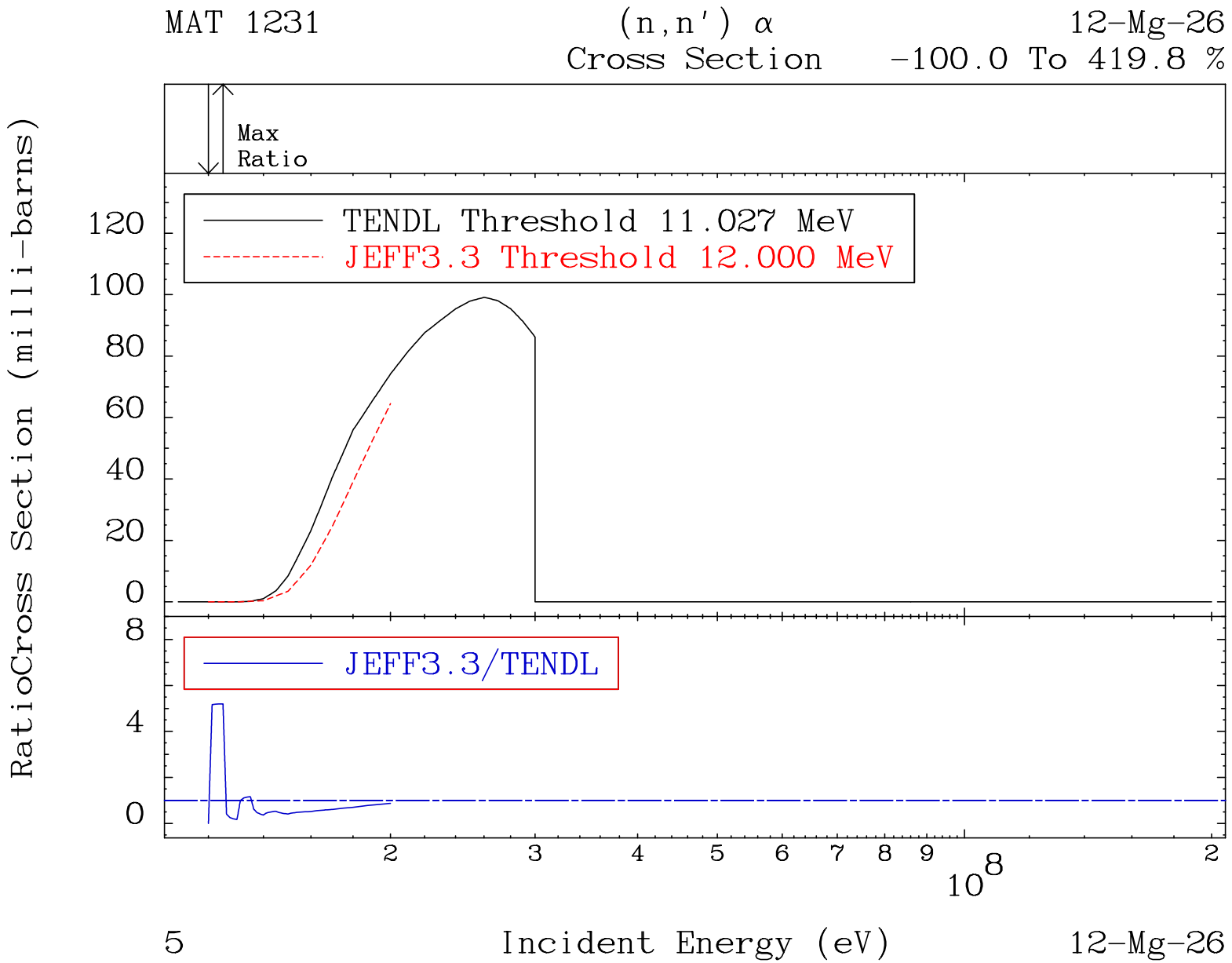
Press Mouse Button to Start

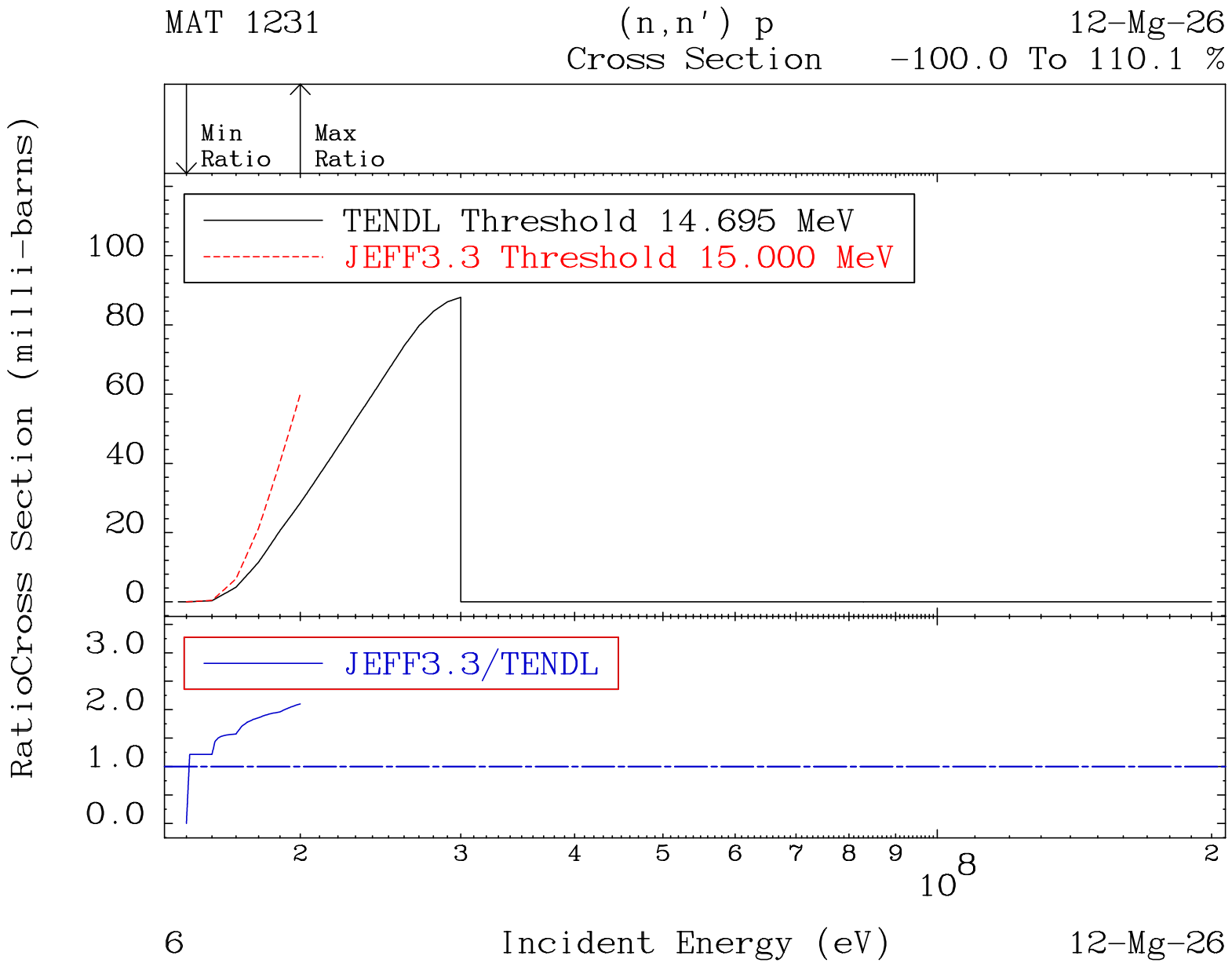

MAT 1231
Total
Cross Section
12-Mg-26
-99.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
12-Mg-26

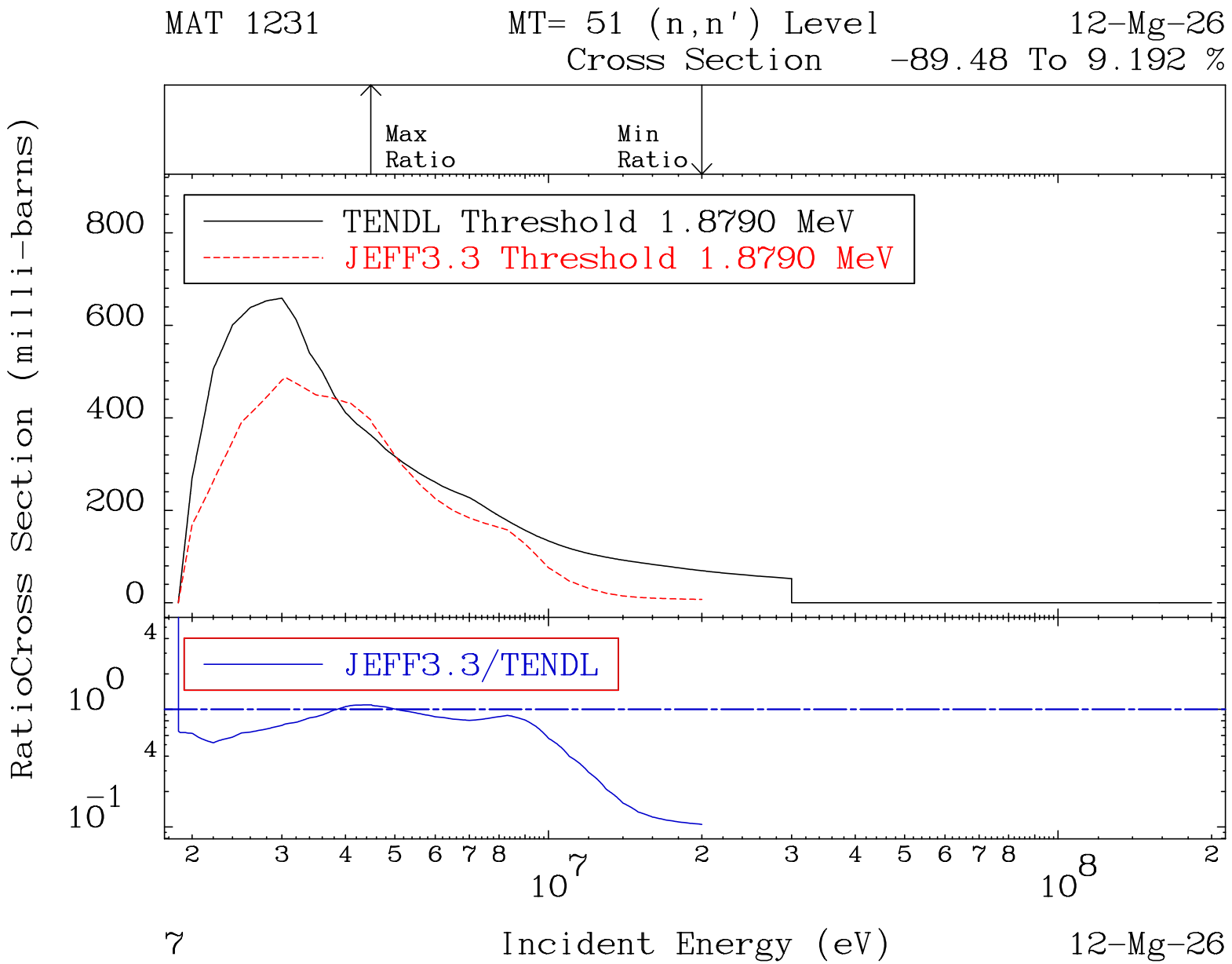

MAT 1231
Elastic
Cross Section
12-Mg-26
-99.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
12-Mg-26

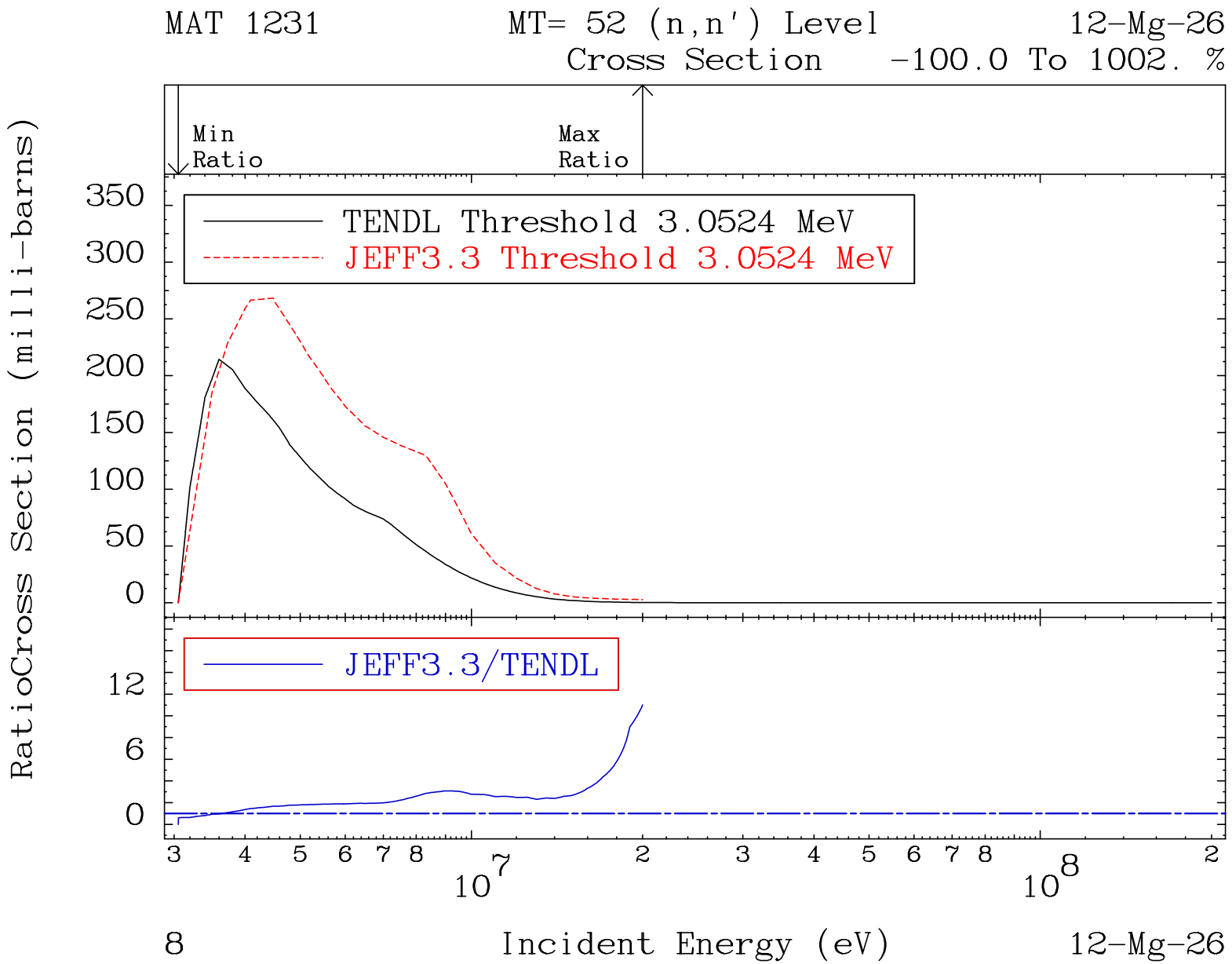

MAT 1231
Inelastic
Cross Section
12-Mg-26
-48.06 To 10.46 %
Min Ratio
Max Ratio
TENDL Threshold 1.8790 MeV
JEFF3.3 Threshold 1.8790 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.2
0.8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
12-Mg-26

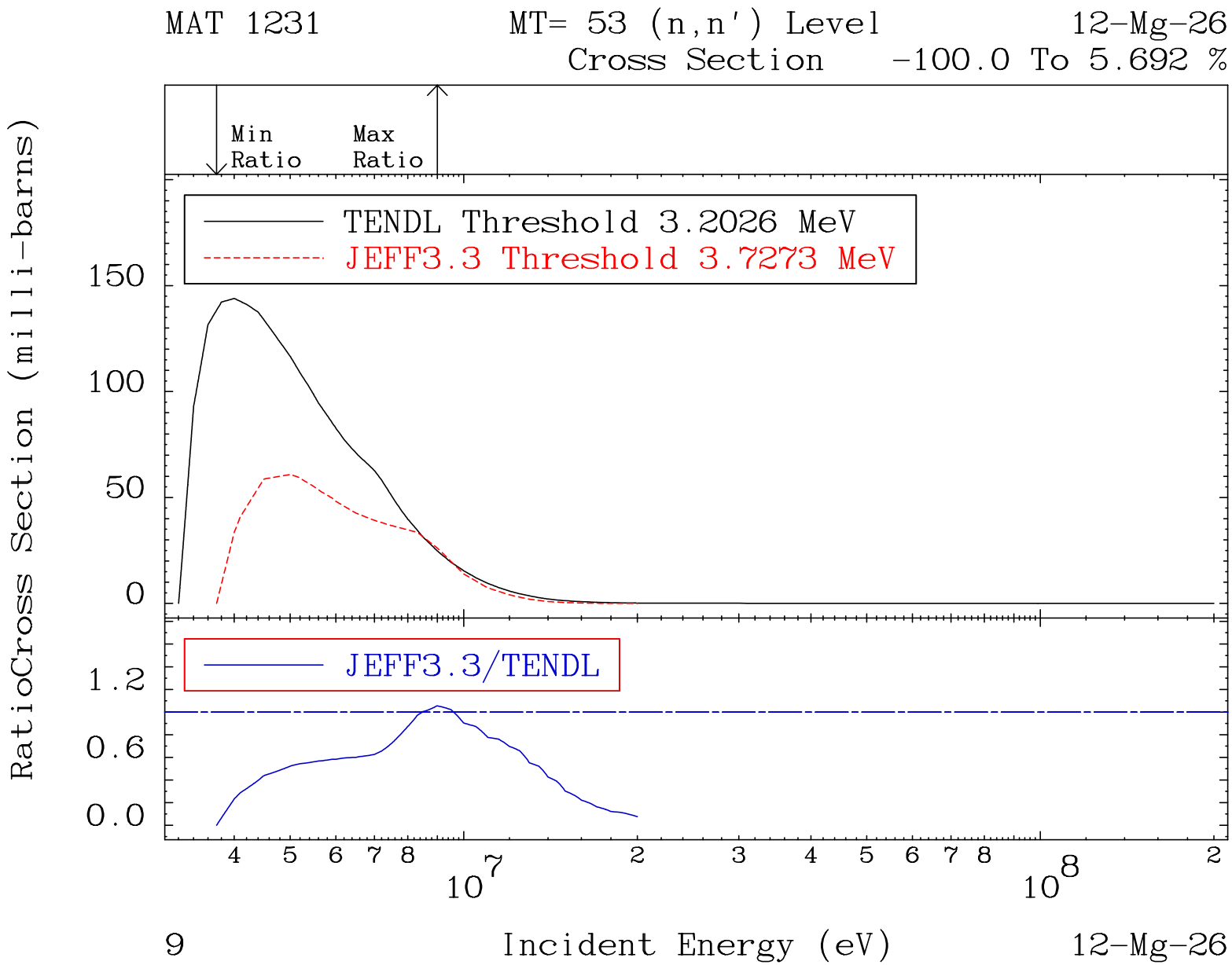

MAT 1231
(n,2n)
Cross Section
12-Mg-26
-100.0 To 52.76 %
Min Ratio
Max Ratio
TENDL Threshold 11.524 MeV
JEFF3.3 Threshold 12.000 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
4
12-Mg-26

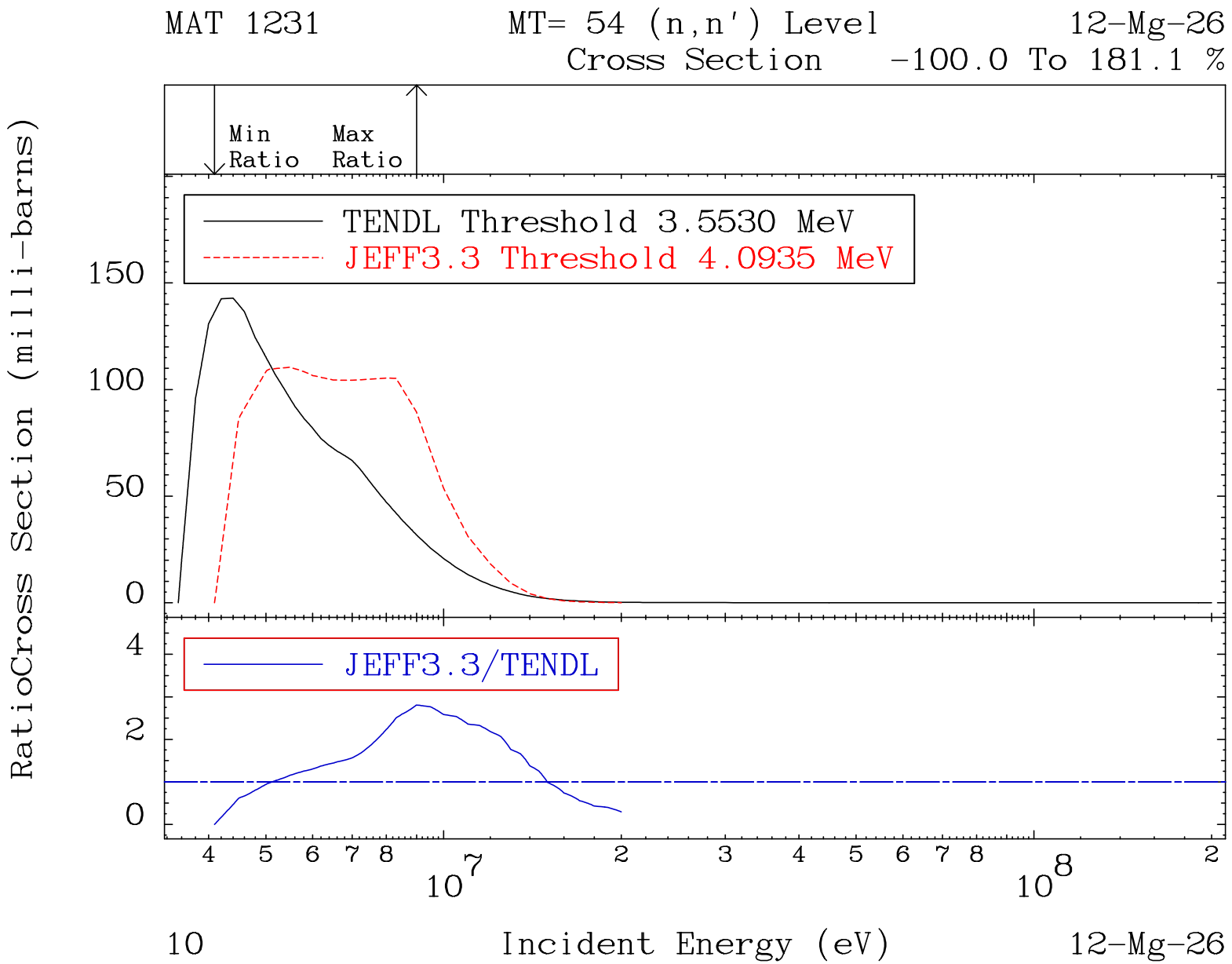

MAT 1231
(n,n') α
Cross Section
12-Mg-26
-100.0 To 419.8 %
Max
Ratio
TENDL Threshold 11.027 MeV
JEFF3.3 Threshold 12.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
8
4
0
2
3
4
5
6
7
8
9
2
10^8
5
Incident Energy (eV)
12-Mg-26

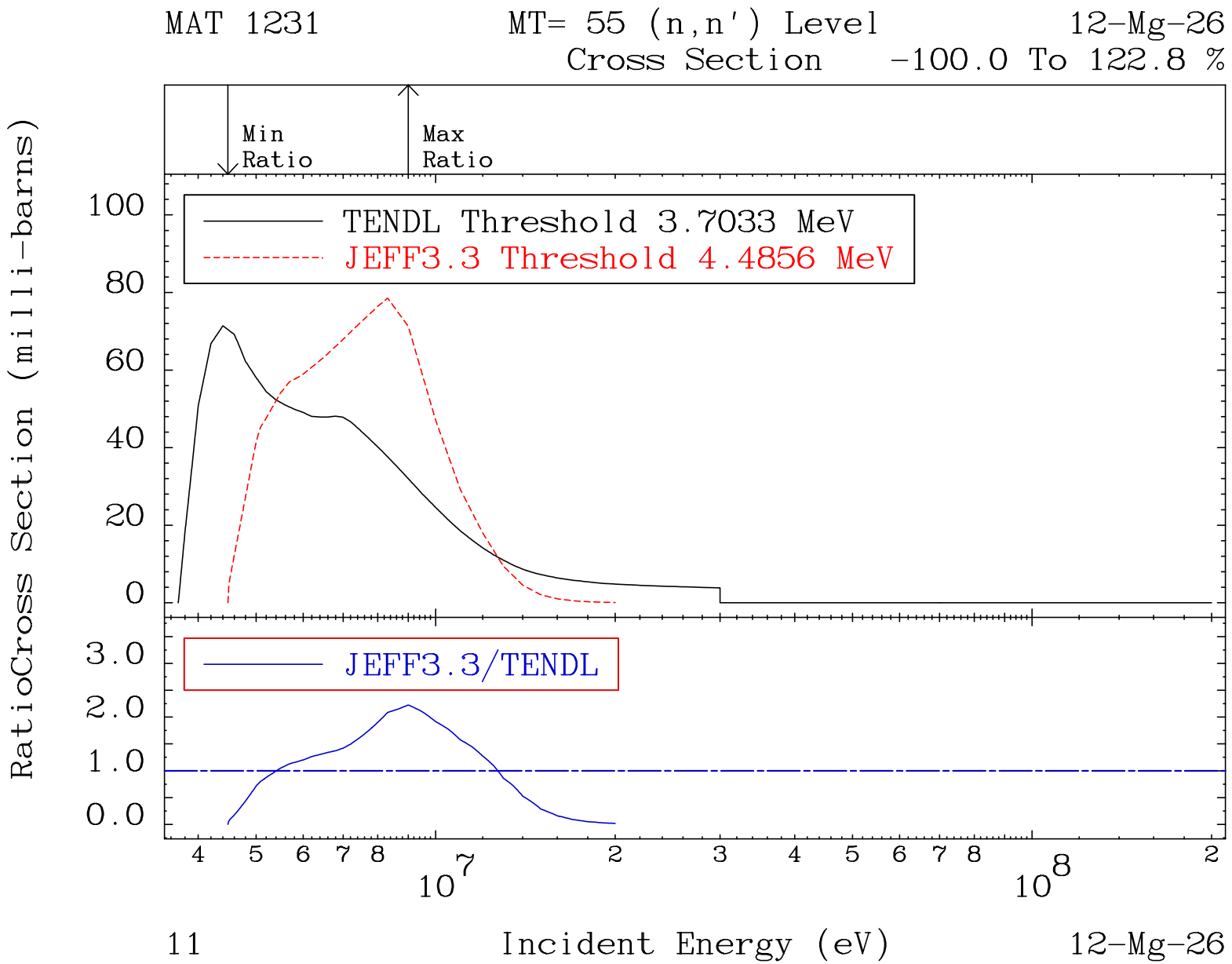

MAT 1231
(n,n') p
Cross Section
12-Mg-26
-100.0 To 110.1 %
Min Ratio
Max Ratio
TENDL Threshold 14.695 MeV
JEFF3.3 Threshold 15.000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
12-Mg-26

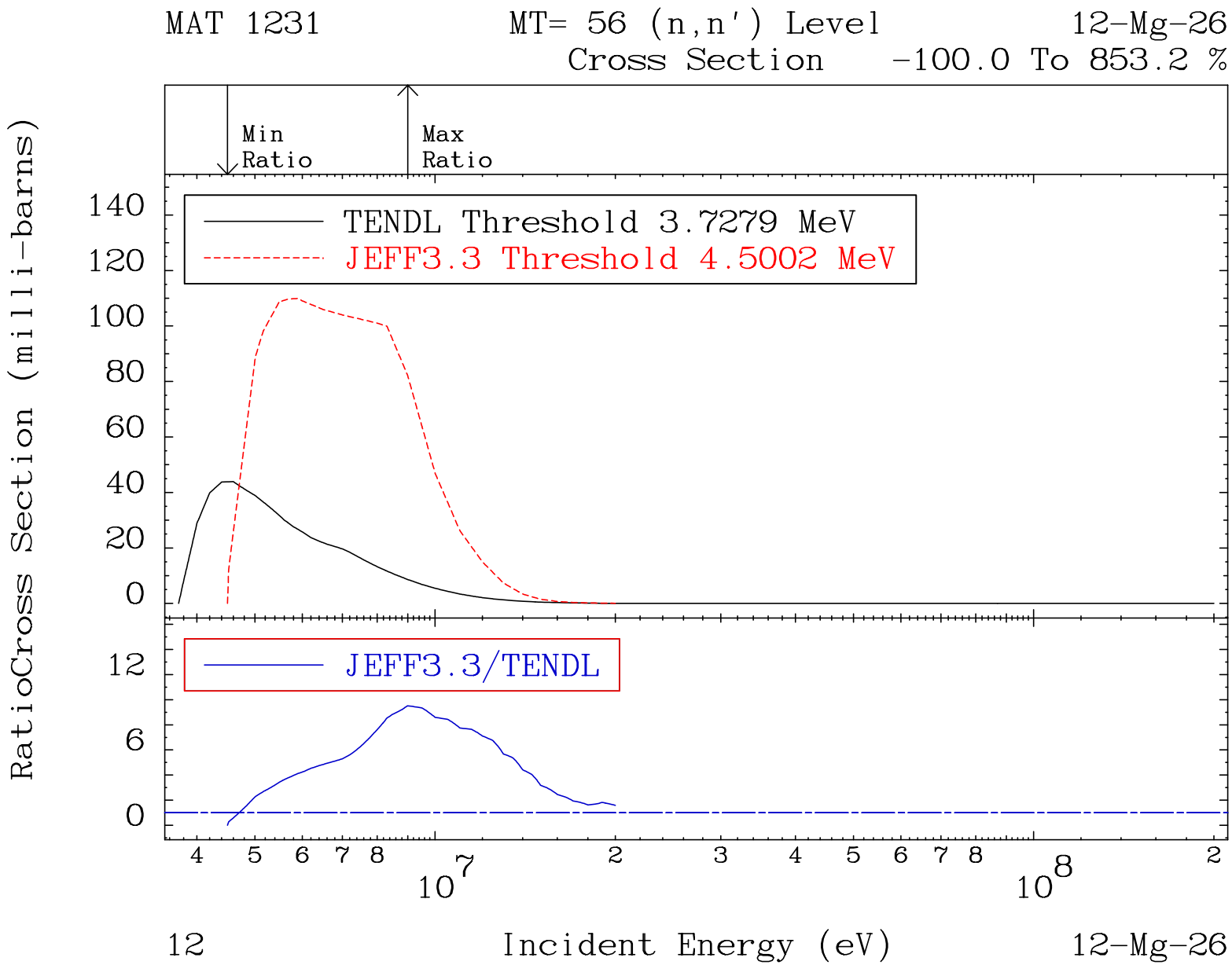

MAT 1231
MT= 51 (n,n') Level
12-Mg-26
Cross Section -89.48 To 9.192 %
Max Ratio
Min Ratio
TENDL Threshold 1.8790 MeV
JEFF3.3 Threshold 1.8790 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
4
10^{0}
4
10^{-1}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
7
Incident Energy (eV)
12-Mg-26

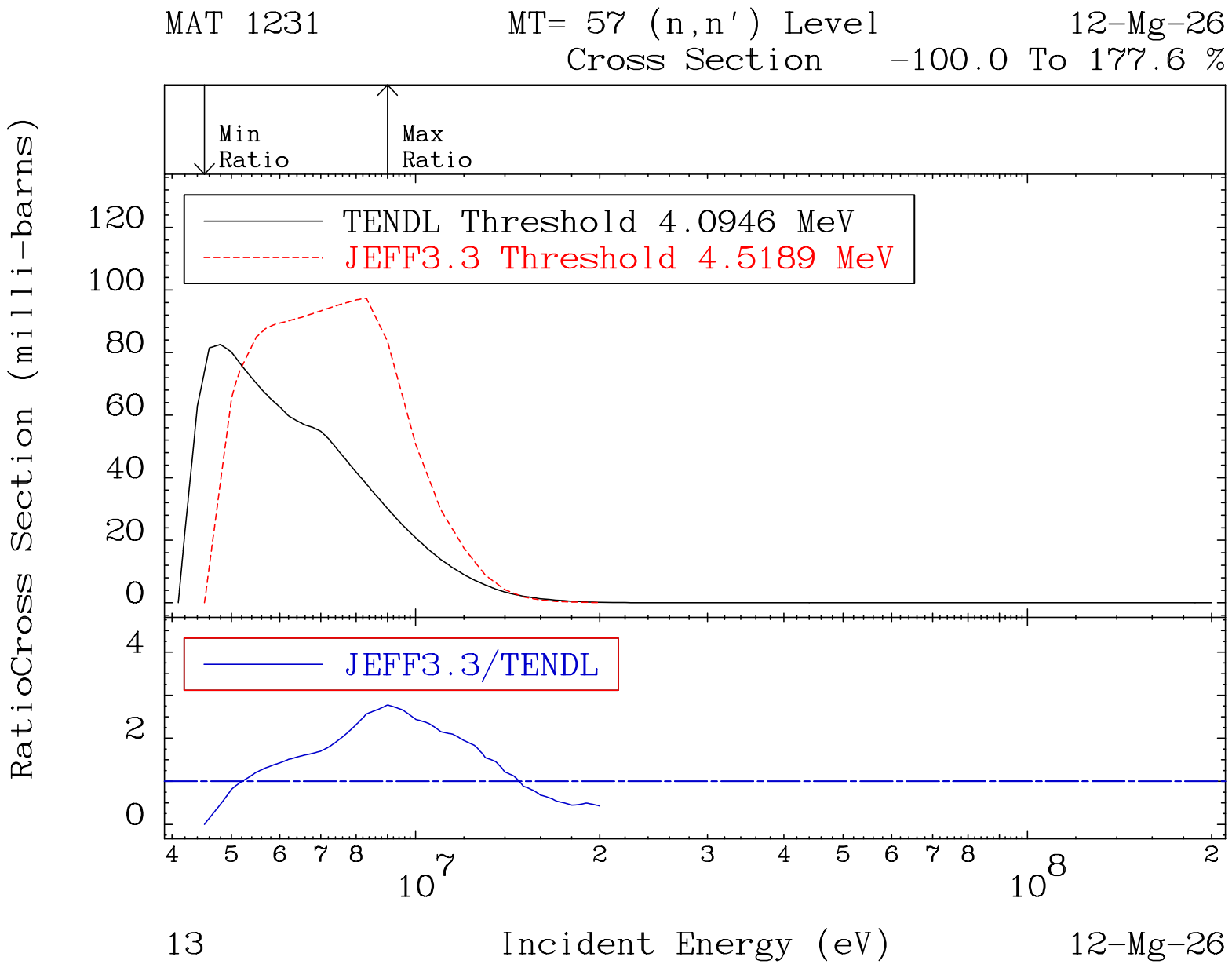

MAT 1231
MT= 52 (n,n') Level
12-Mg-26
Cross Section -100.0 To 1002. %
Min Ratio
Max Ratio
TENDL Threshold 3.0524 MeV
JEFF3.3 Threshold 3.0524 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
12
6
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
12-Mg-26

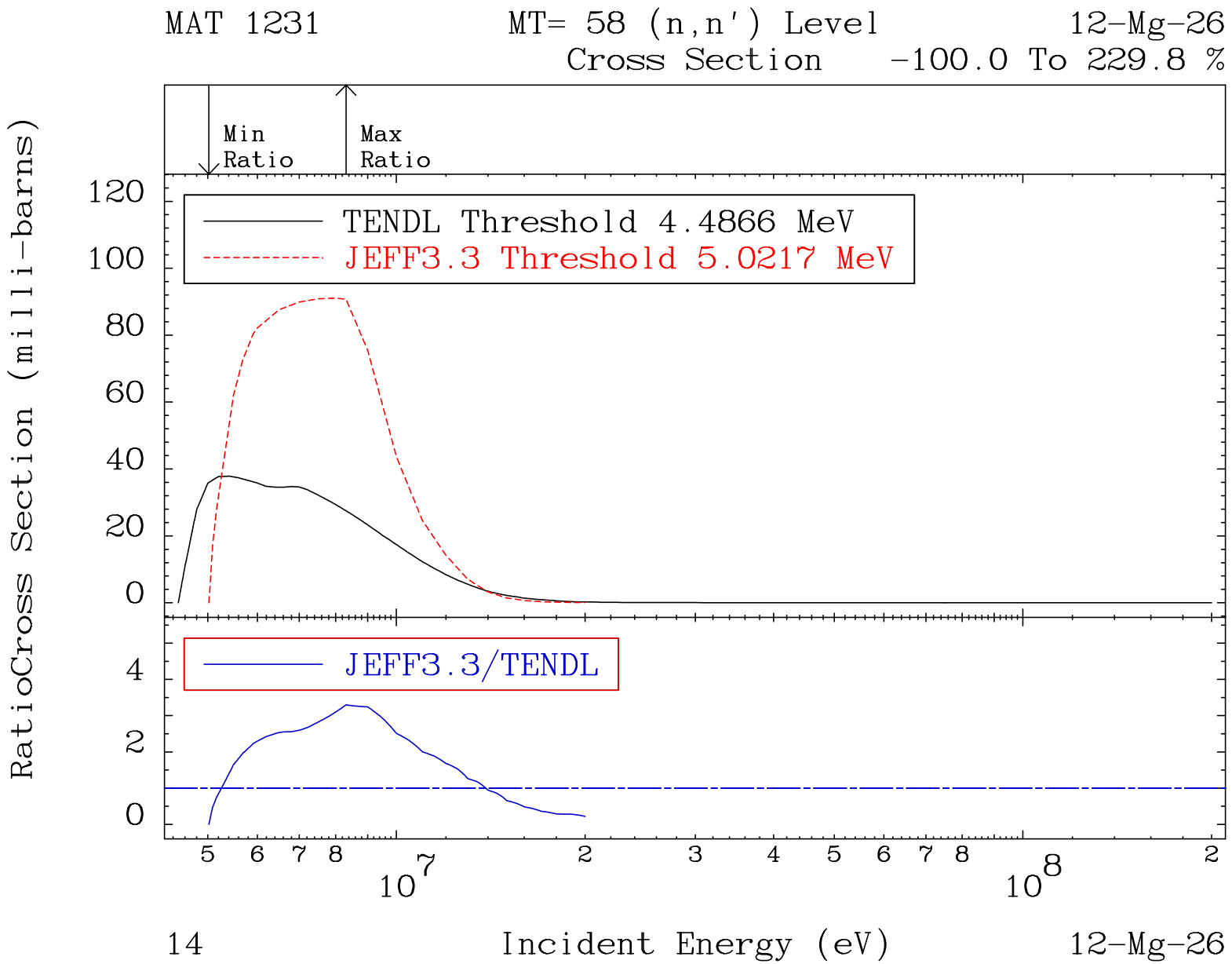

MAT 1231
MT= 53 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 5.692 %
Min Ratio
Max Ratio
TENDL Threshold 3.2026 MeV
JEFF3.3 Threshold 3.7273 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
12-Mg-26

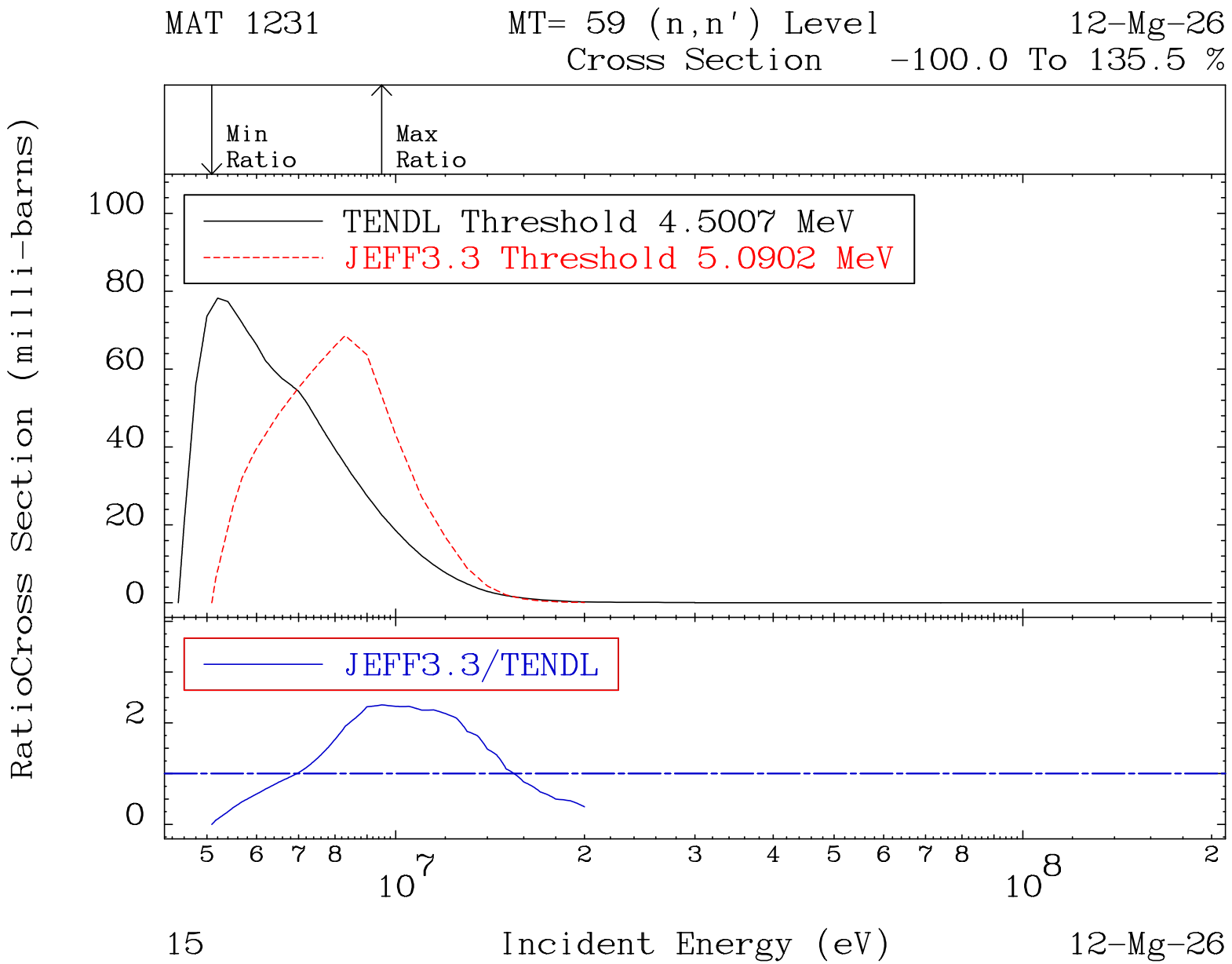

MAT 1231
MT= 54 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 181.1 %
Min Ratio
Max Ratio
TENDL Threshold 3.5530 MeV
JEFF3.3 Threshold 4.0935 MeV
150
100
50
0
JEFF3.3/TENDL
4
2
0
RatioCross Section (milli-barns)
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
10
Incident Energy (eV)
12-Mg-26

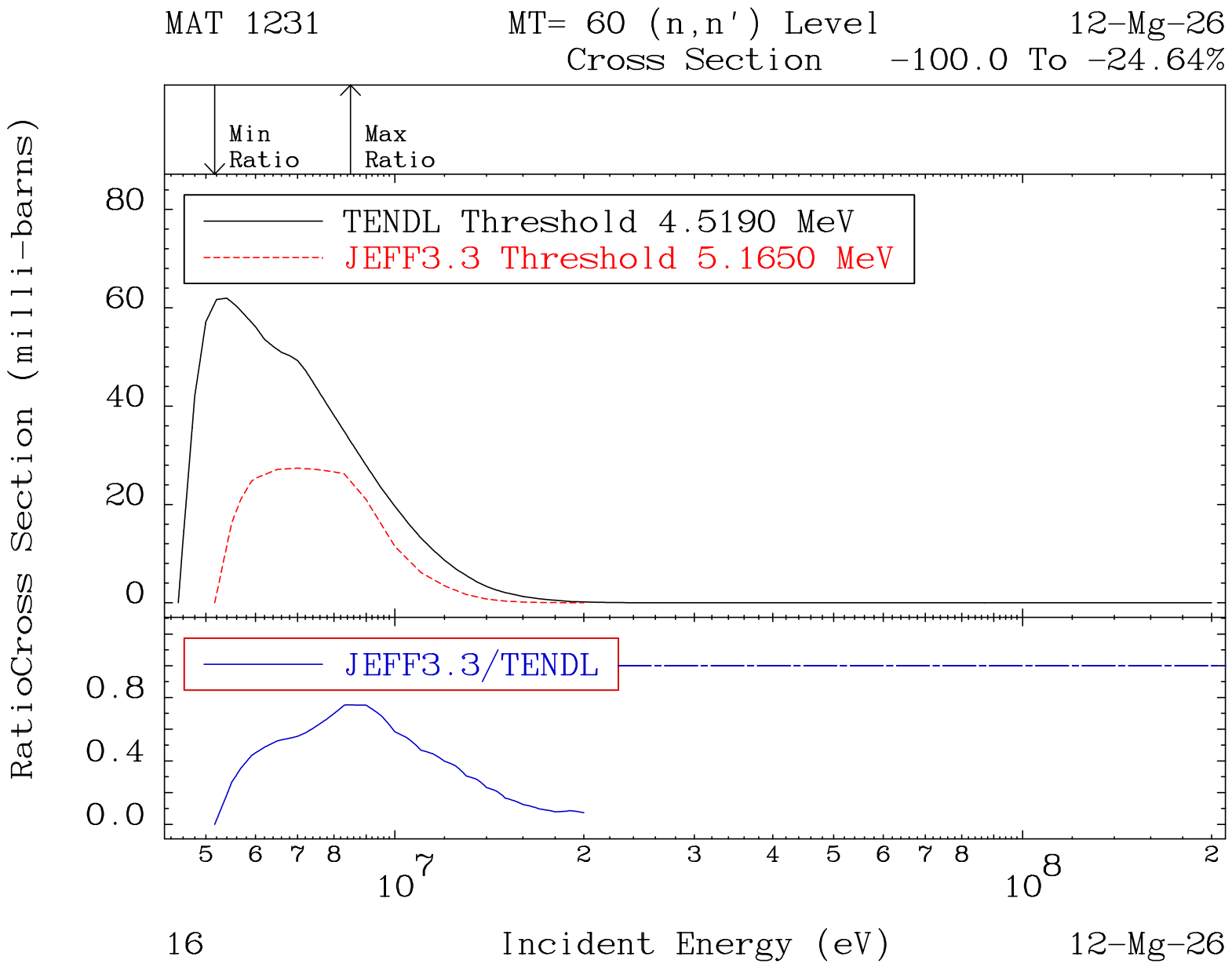

MAT 1231
MT= 55 (n,n') Level
12-Mg-26
Cross Section -100.0 To 122.8 %
Min Ratio
Max Ratio
TENDL Threshold 3.7033 MeV
JEFF3.3 Threshold 4.4856 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
11
12-Mg-26

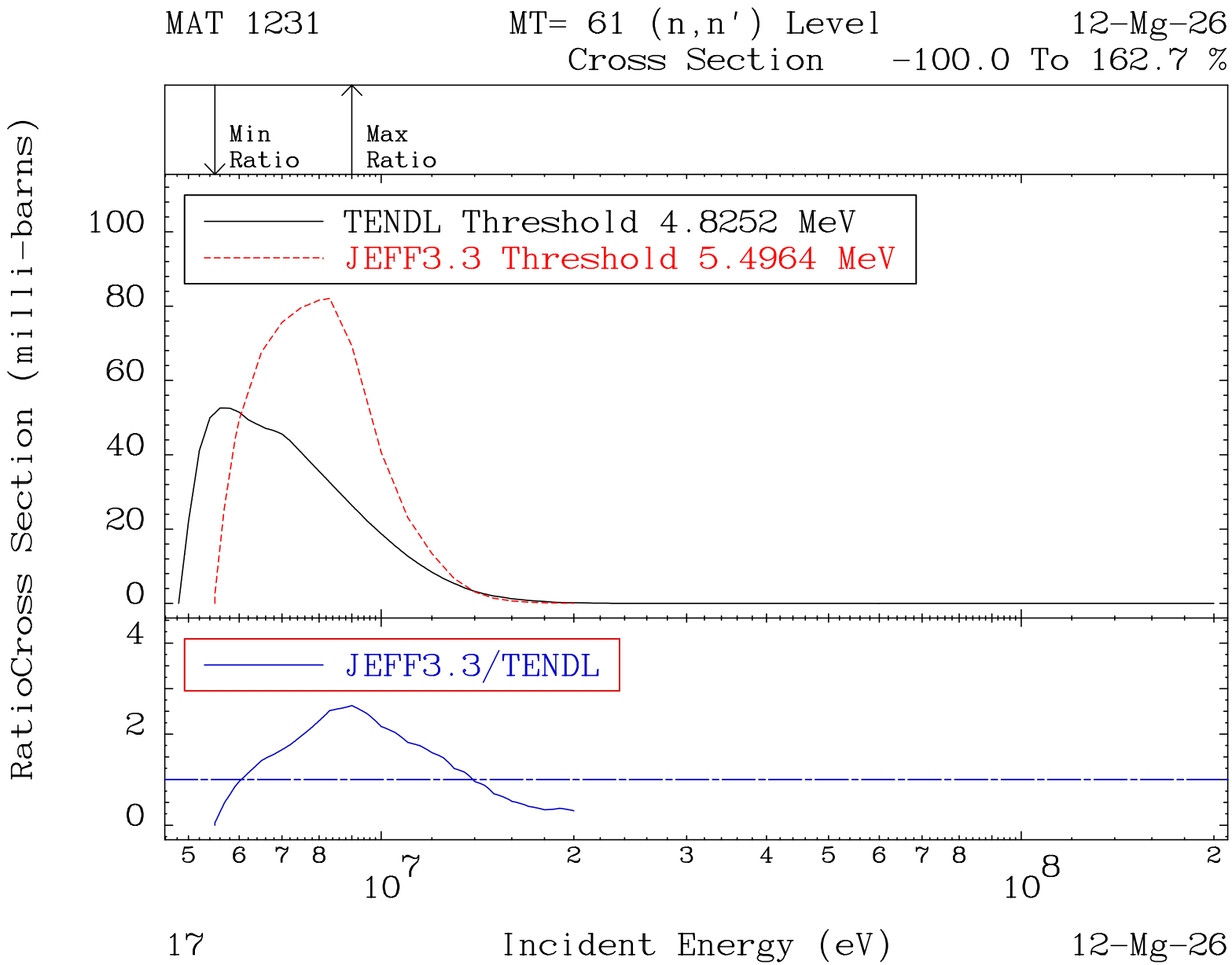

MAT 1231
MT= 56 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 853.2 %
Min Ratio
Max Ratio
TENDL Threshold 3.7279 MeV
JEFF3.3 Threshold 4.5002 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
12
6
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
12
Incident Energy (eV)
12-Mg-26

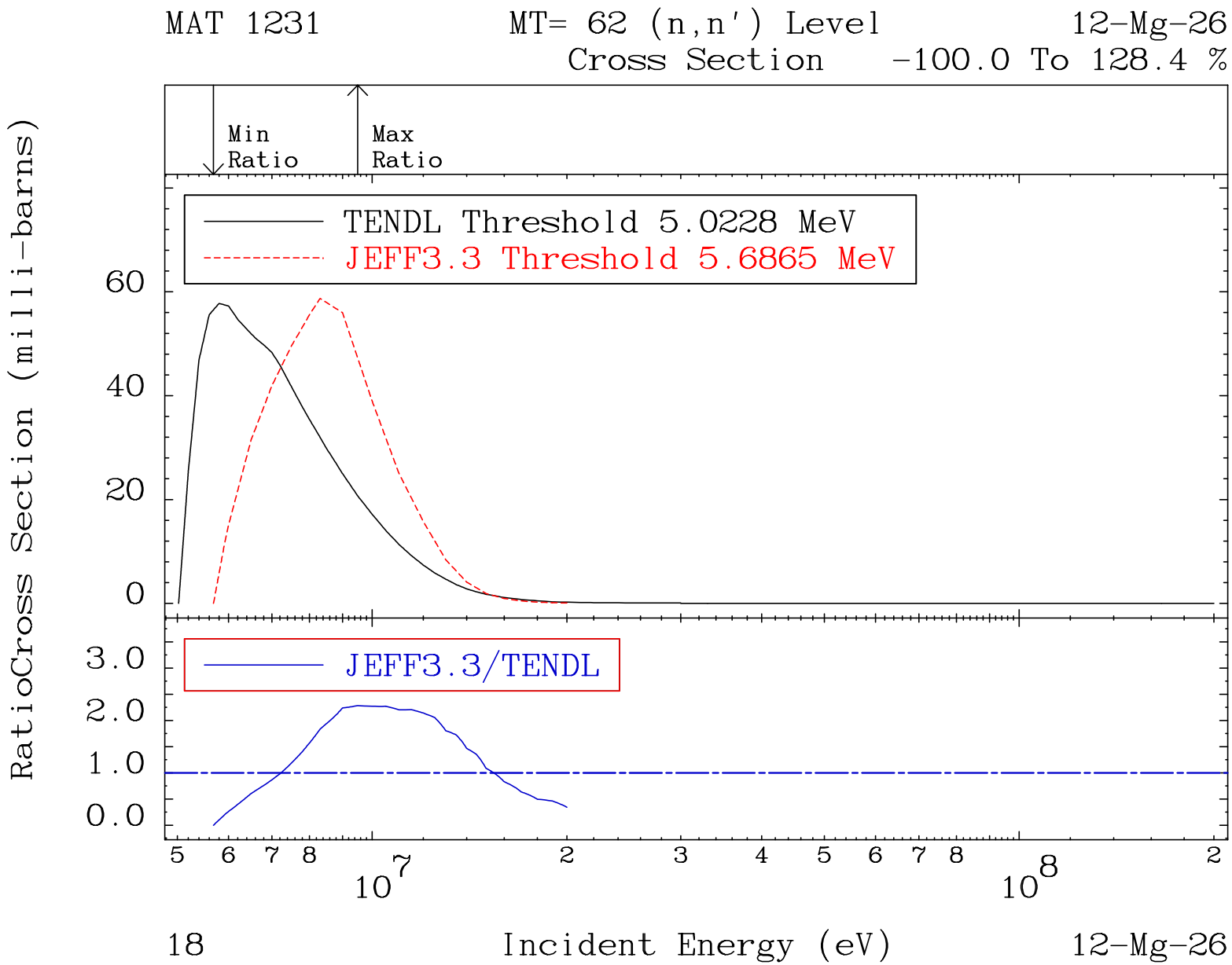

MAT 1231
MT= 57 (n,n') Level
12-Mg-26
Cross Section -100.0 To 177.6 %
Min Ratio
Max Ratio
TENDL Threshold 4.0946 MeV
JEFF3.3 Threshold 4.5189 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
4
2
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
12-Mg-26

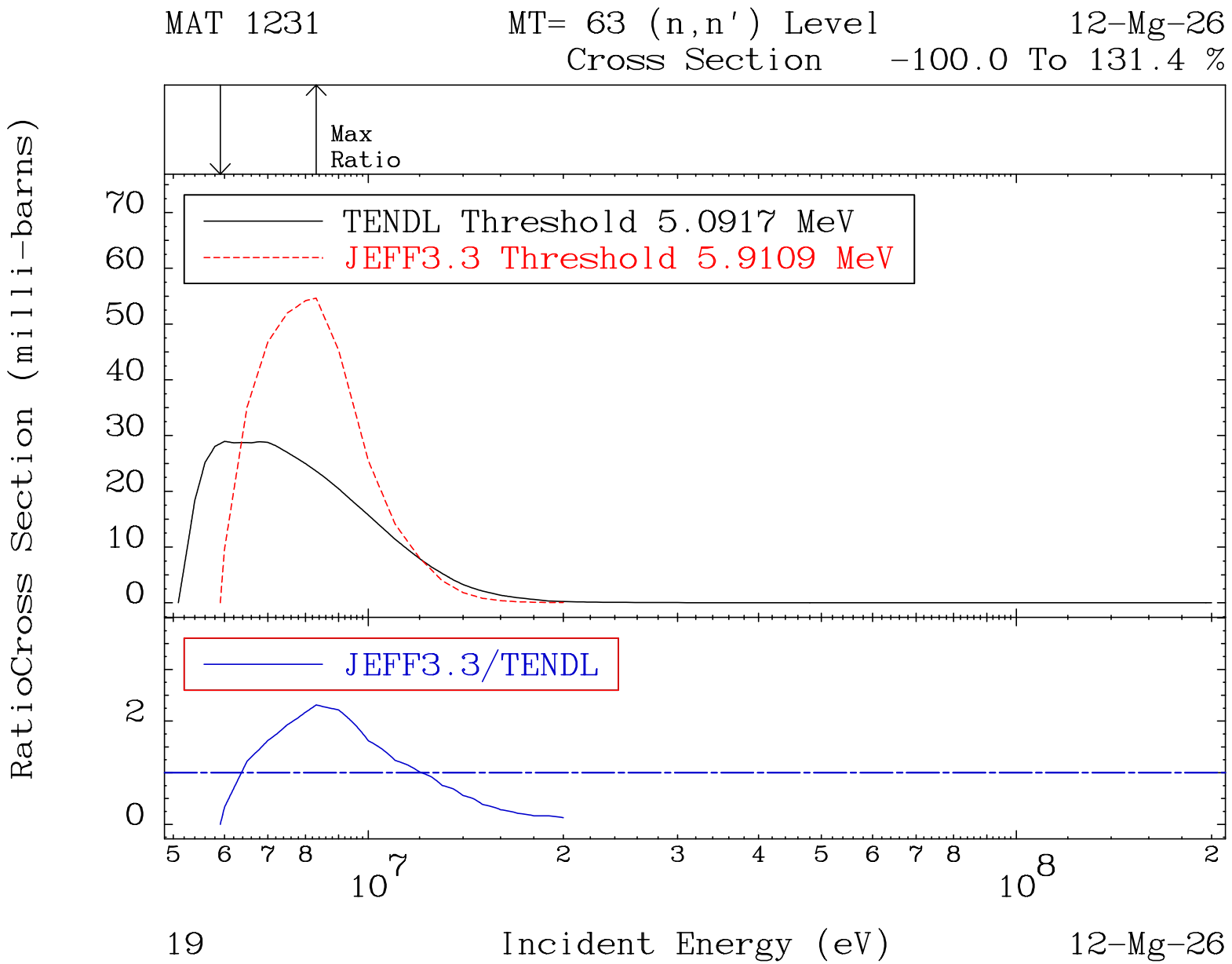

MAT 1231
MT= 58 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 229.8 %
Min Ratio
Max Ratio
TENDL Threshold 4.4866 MeV
JEFF3.3 Threshold 5.0217 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
14
12-Mg-26

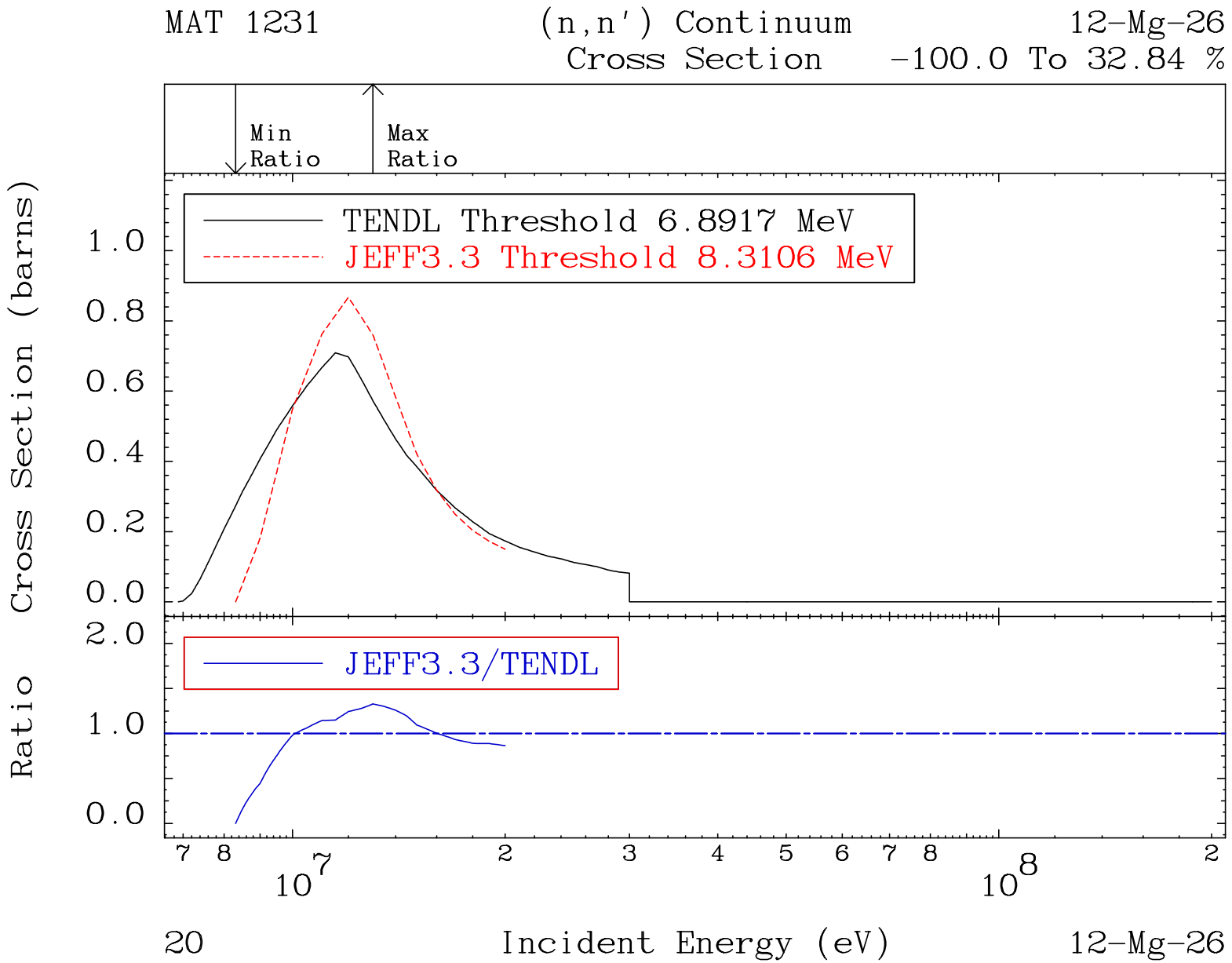

MAT 1231
MT= 59 (n,n') Level
12-Mg-26
Cross Section -100.0 To 135.5 %
Min Ratio
Max Ratio
TENDL Threshold 4.5007 MeV
JEFF3.3 Threshold 5.0902 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
12-Mg-26

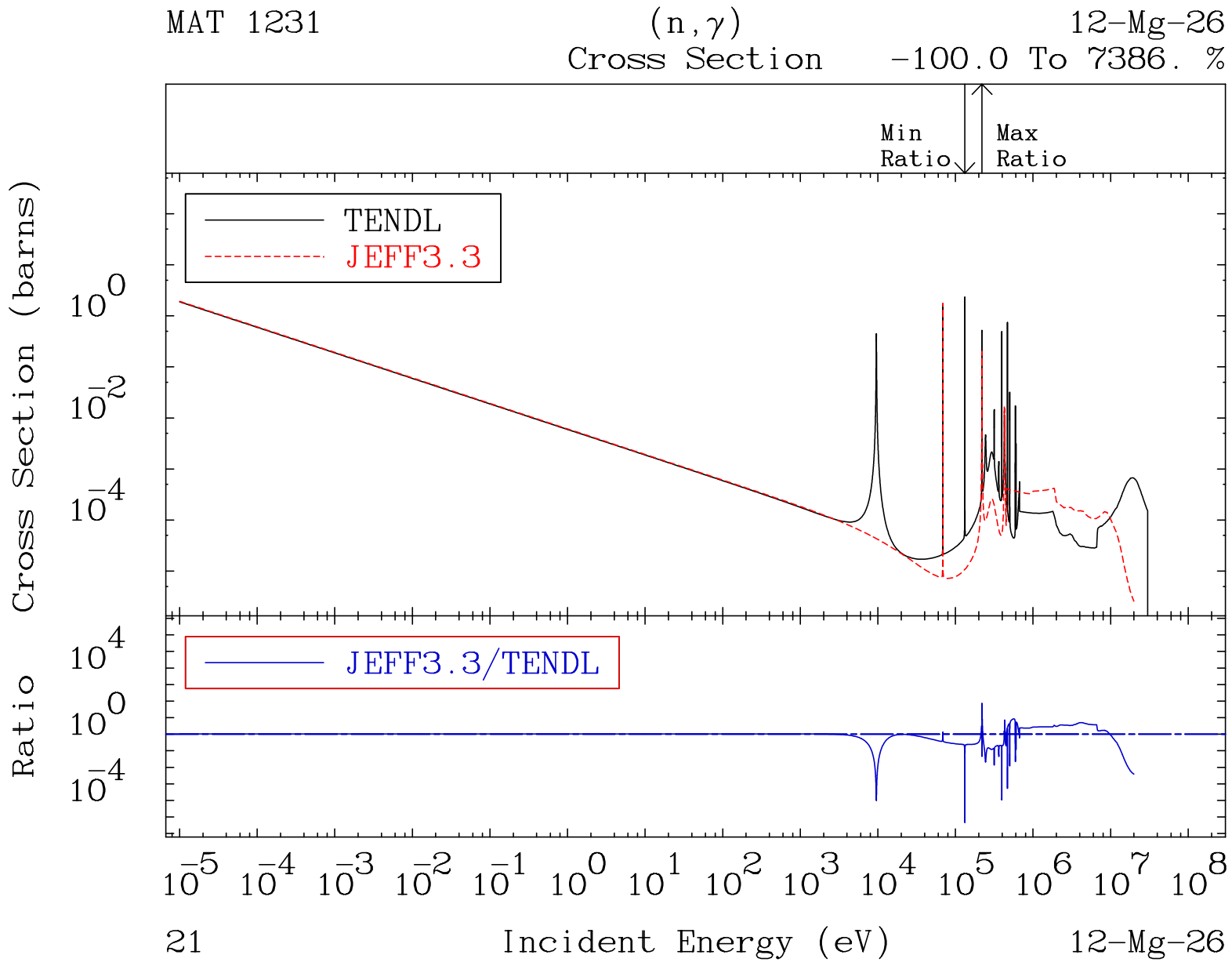

MAT 1231
MT= 60 (n,n') Level
12-Mg-26
Cross Section -100.0 To -24.64%
Min Ratio
Max Ratio
TENDL Threshold 4.5190 MeV
JEFF3.3 Threshold 5.1650 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
0.8
0.4
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
12-Mg-26

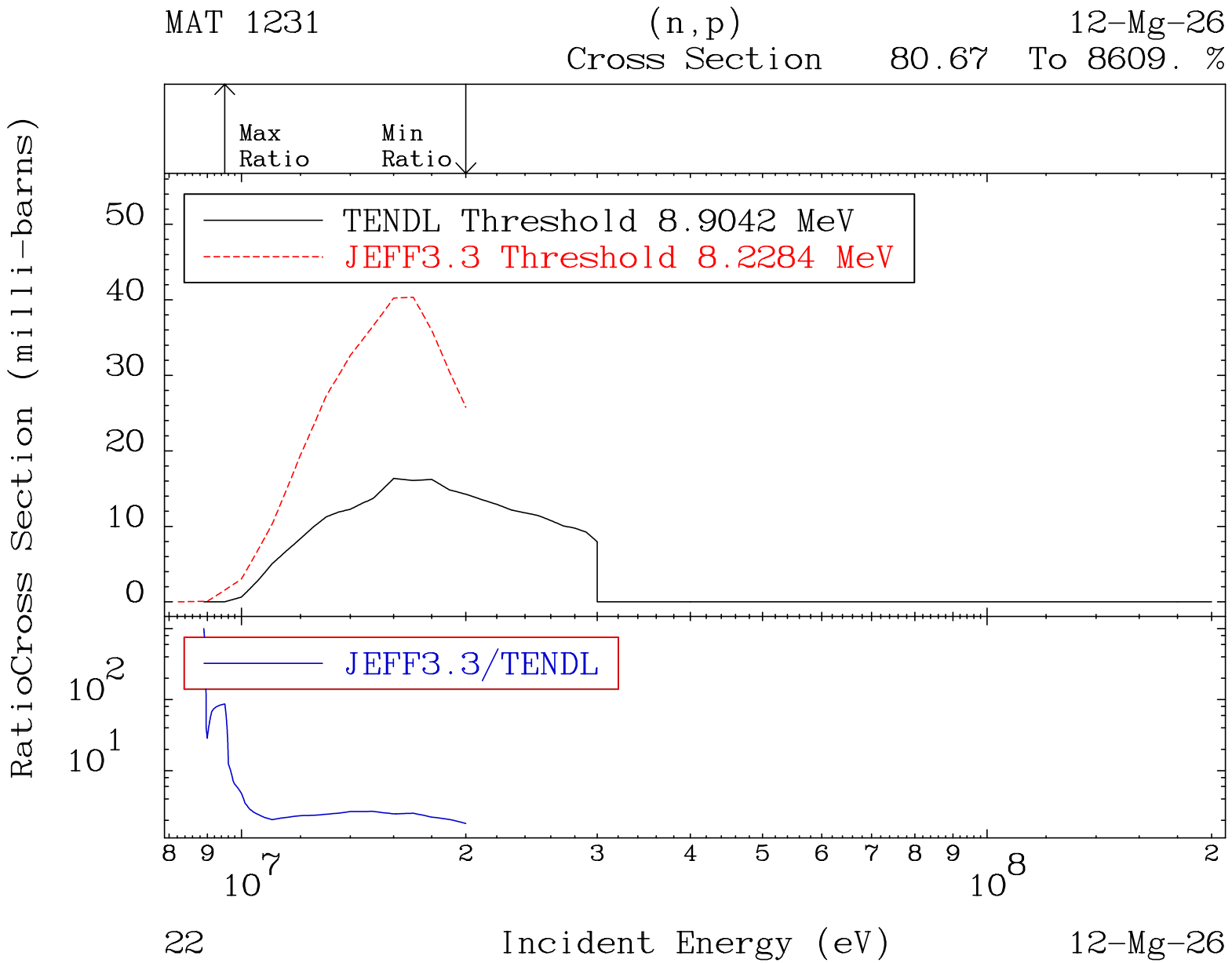

MAT 1231
MT= 61 (n,n') Level
12-Mg-26
Cross Section -100.0 To 162.7 %
Min Ratio
Max Ratio
TENDL Threshold 4.8252 MeV
JEFF3.3 Threshold 5.4964 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
17
12-Mg-26

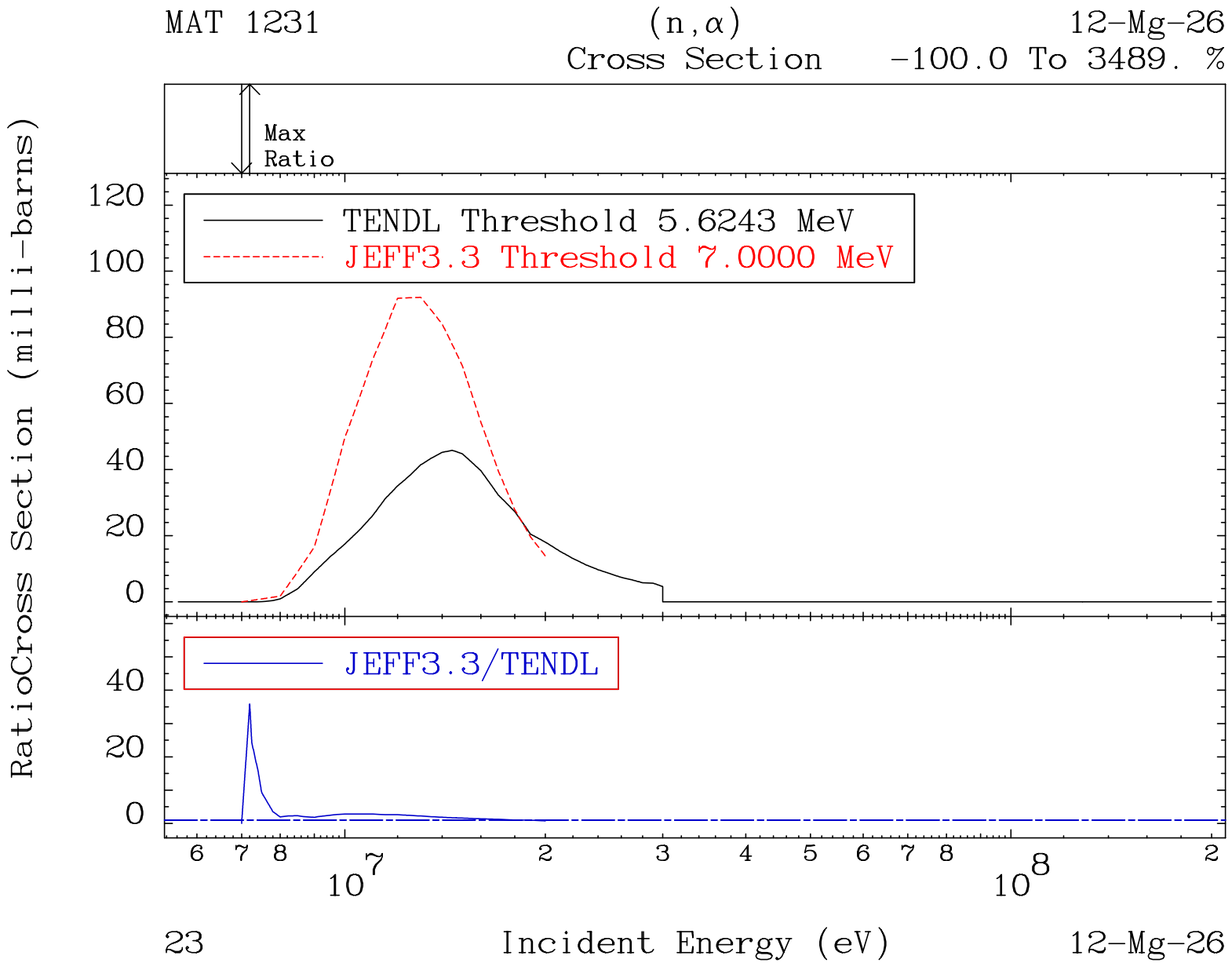

MAT 1231
MT= 62 (n,n') Level
12-Mg-26
Cross Section -100.0 To 128.4 %
Min Ratio
Max Ratio
TENDL Threshold 5.0228 MeV
JEFF3.3 Threshold 5.6865 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
40
20
0
3.0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
12-Mg-26

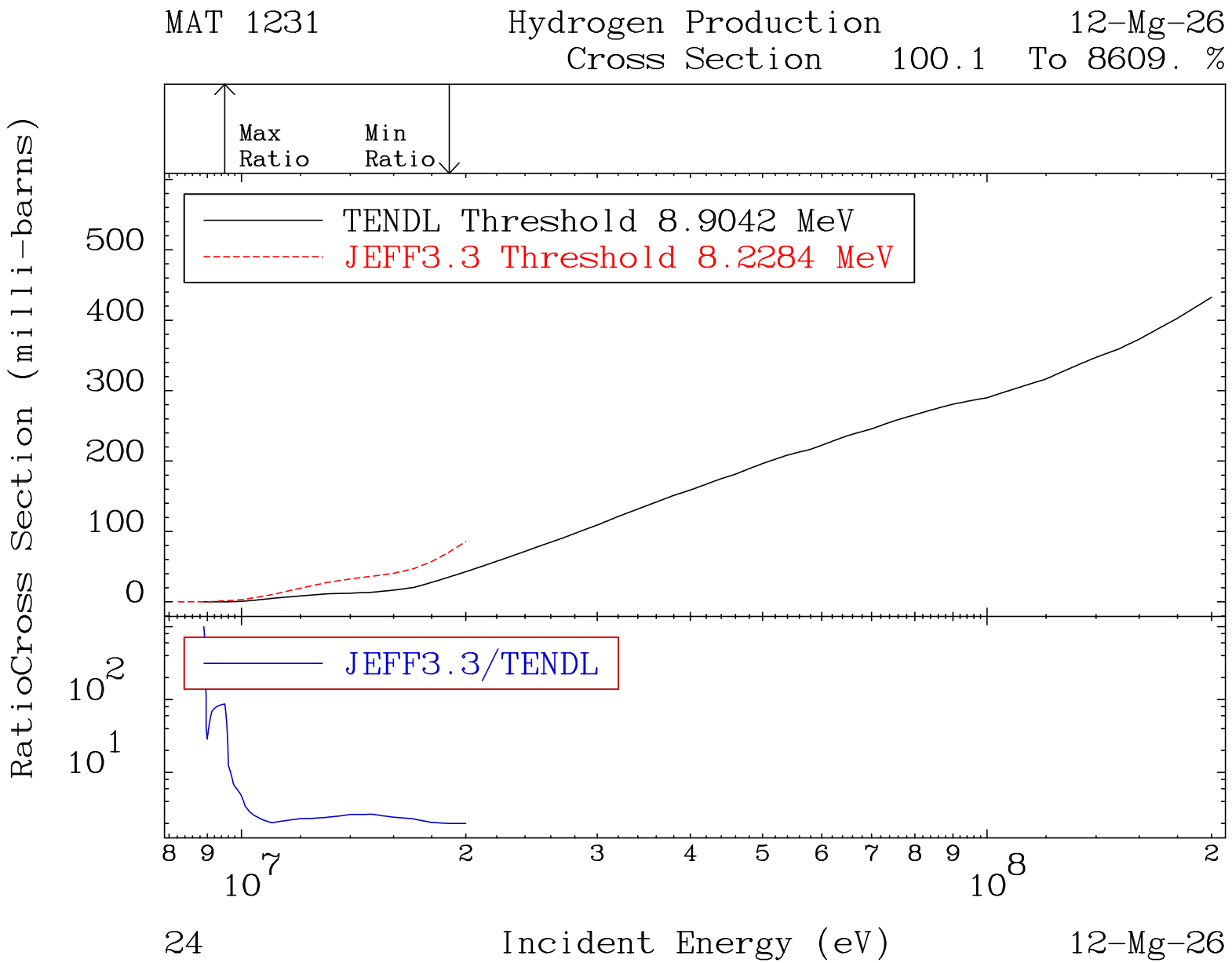

MAT 1231
MT= 63 (n,n') Level
12-Mg-26
Cross Section
-100.0 To 131.4 %
Max
Ratio
TENDL Threshold 5.0917 MeV
JEFF3.3 Threshold 5.9109 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
12-Mg-26

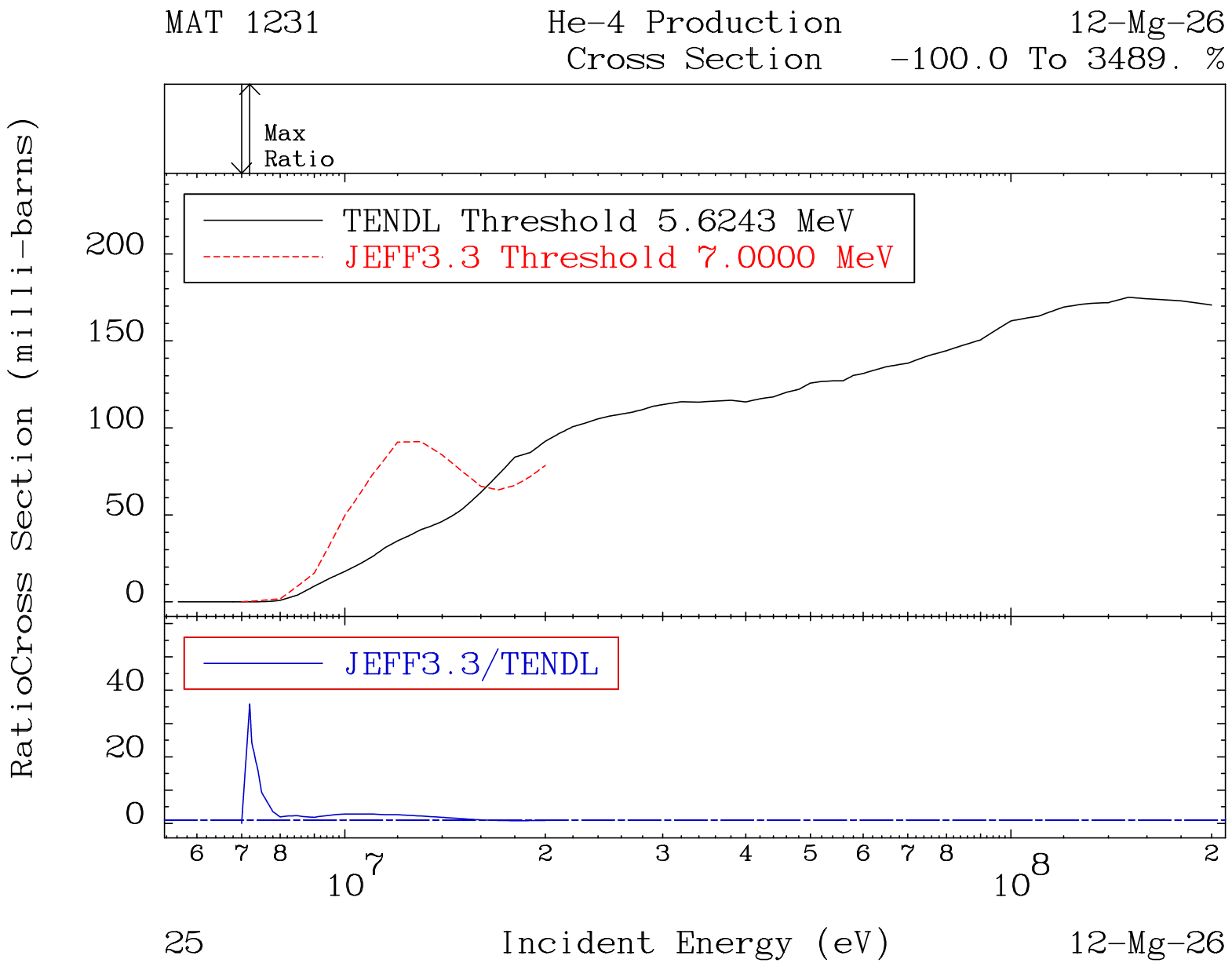

MAT 1231
(n,n') Continuum
Cross Section
12-Mg-26
-100.0 To 32.84 %
Min Ratio
Max Ratio
TENDL Threshold 6.8917 MeV
JEFF3.3 Threshold 8.3106 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
12-Mg-26

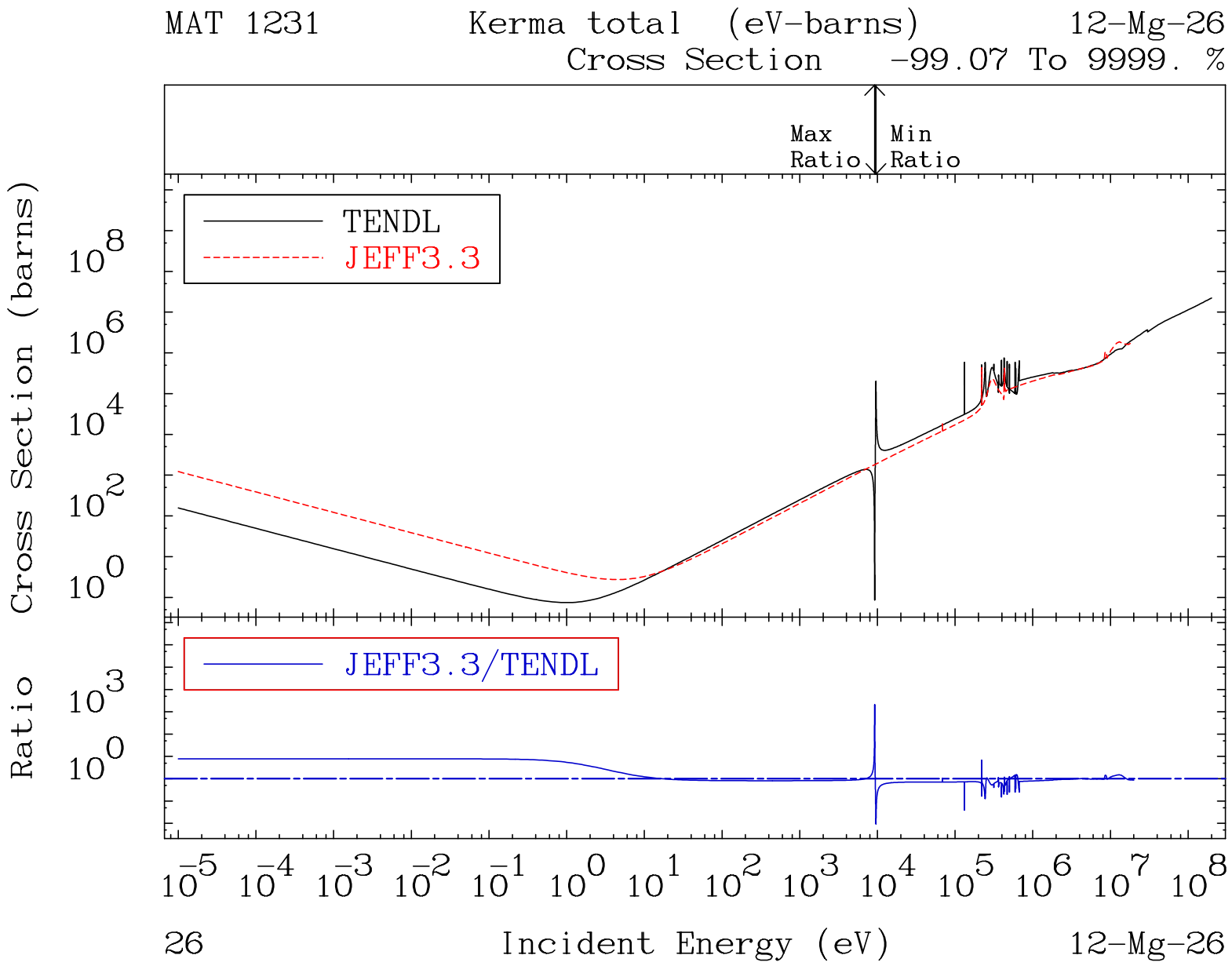

MAT 1231
(n,γ)
Cross Section
12-Mg-26
-100.0 To 7386. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
21
12-Mg-26

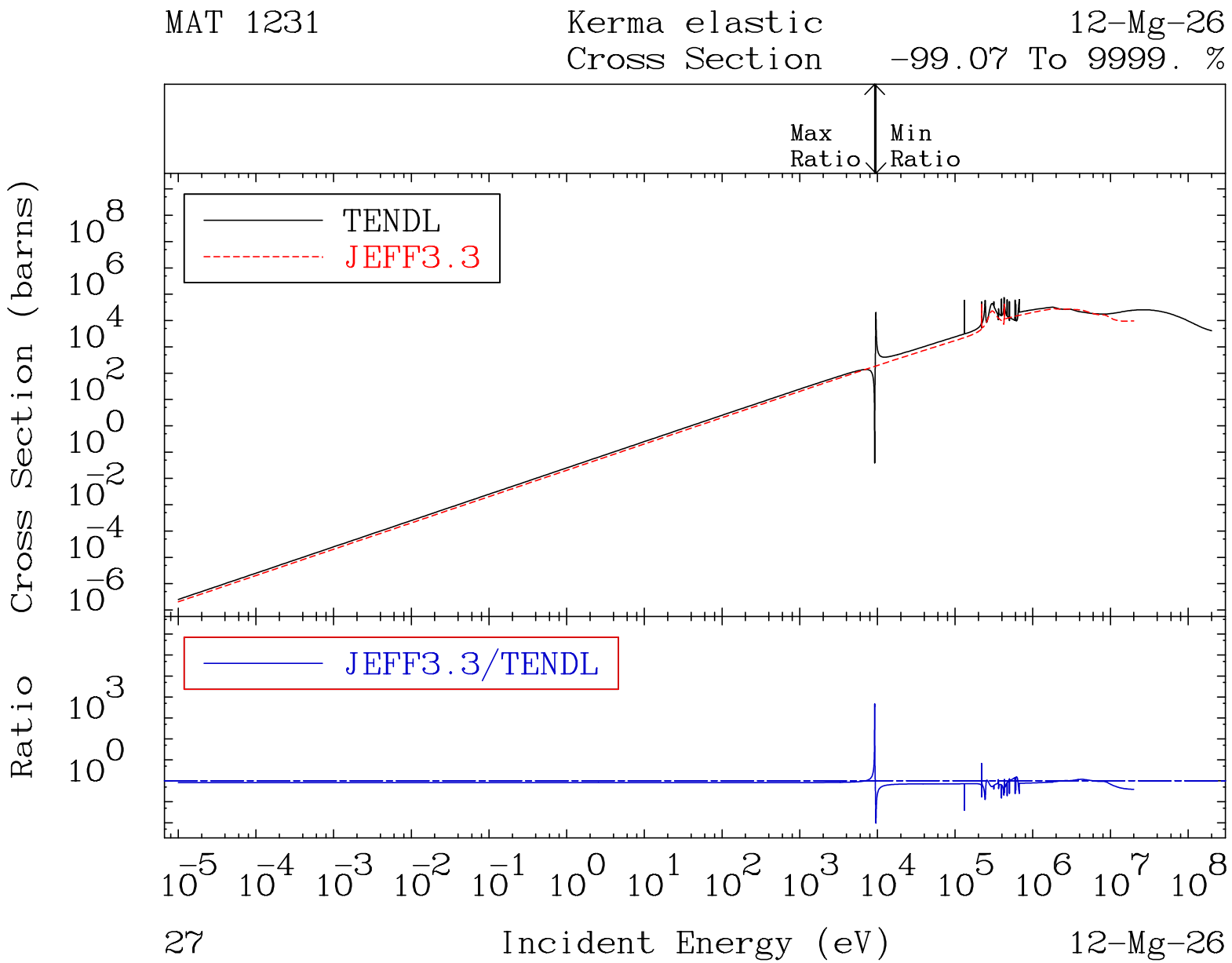

MAT 1231
(n,p)
12-Mg-26
Cross Section 80.67 To 8609. %
Max Ratio
Min Ratio
TENDL Threshold 8.9042 MeV
JEFF3.3 Threshold 8.2284 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
10^2
10^1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
12-Mg-26

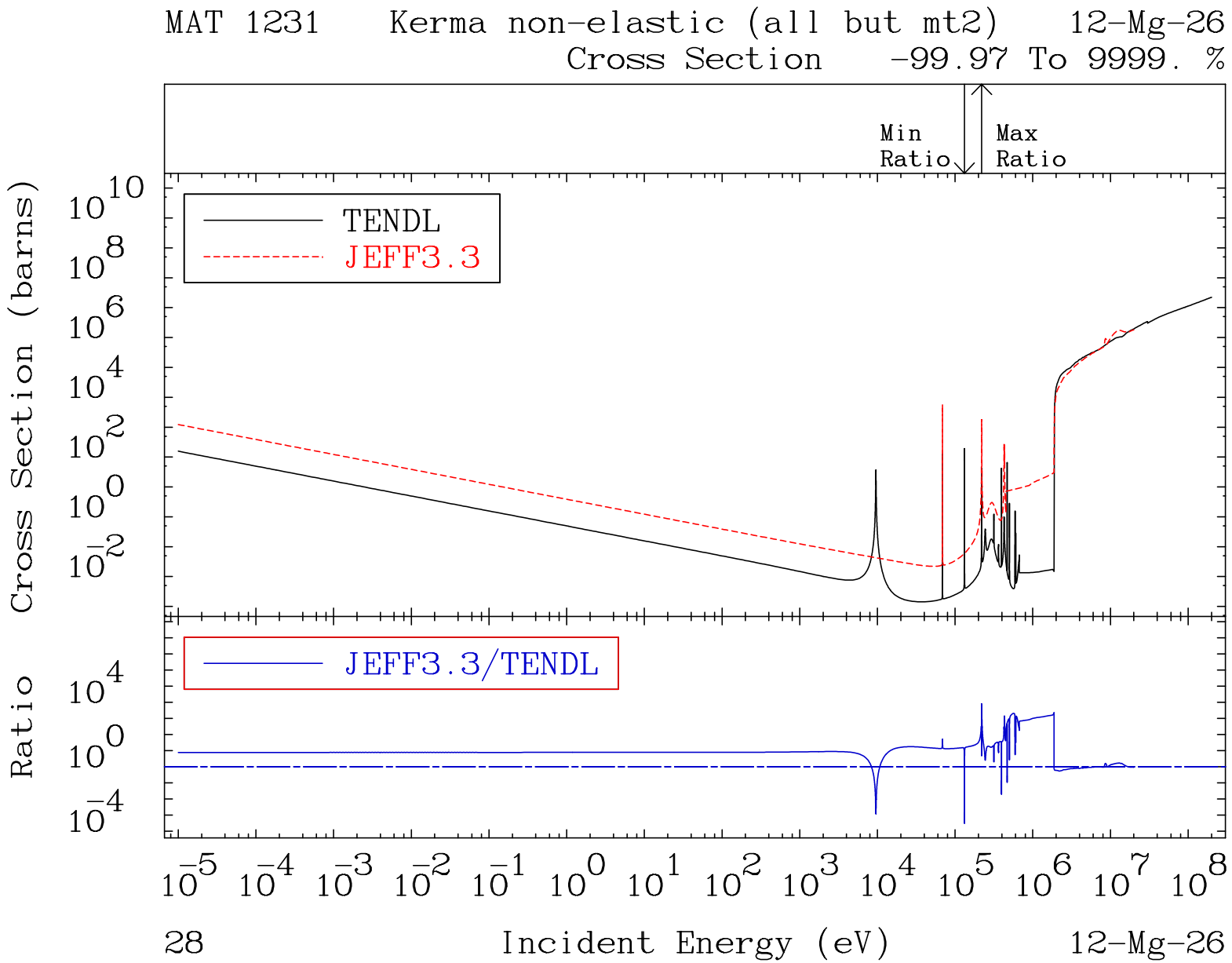

MAT 1231
(n,α)
12-Mg-26
Cross Section
-100.0 To 3489. %
Max
Ratio
TENDL Threshold 5.6243 MeV
JEFF3.3 Threshold 7.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
12-Mg-26

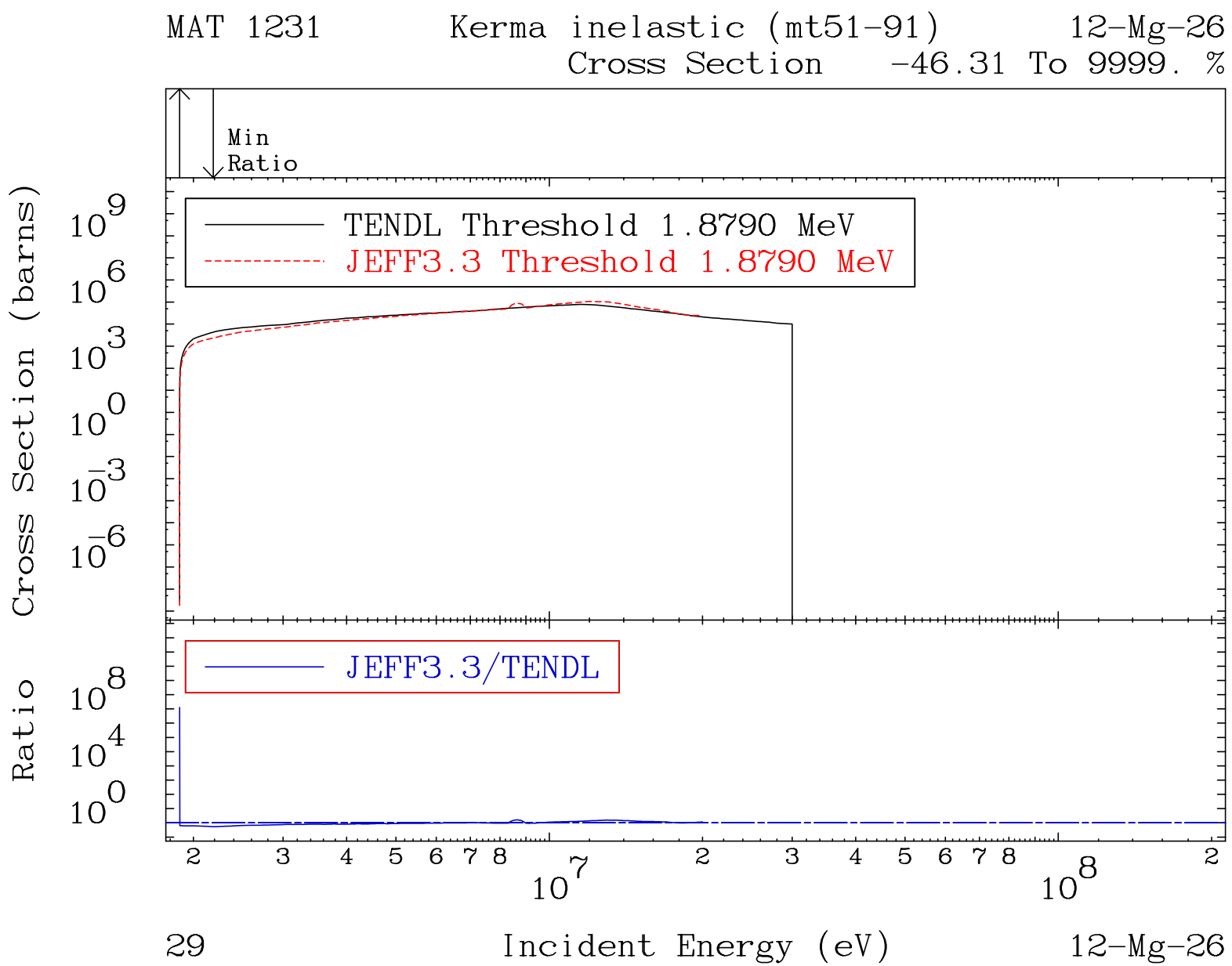

MAT 1231
Hydrogen Production
12-Mg-26
Cross Section 100.1 To 8609. %
Max Ratio
Min Ratio
TENDL Threshold 8.9042 MeV
JEFF3.3 Threshold 8.2284 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
10^2
10^1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
24
Incident Energy (eV)
12-Mg-26

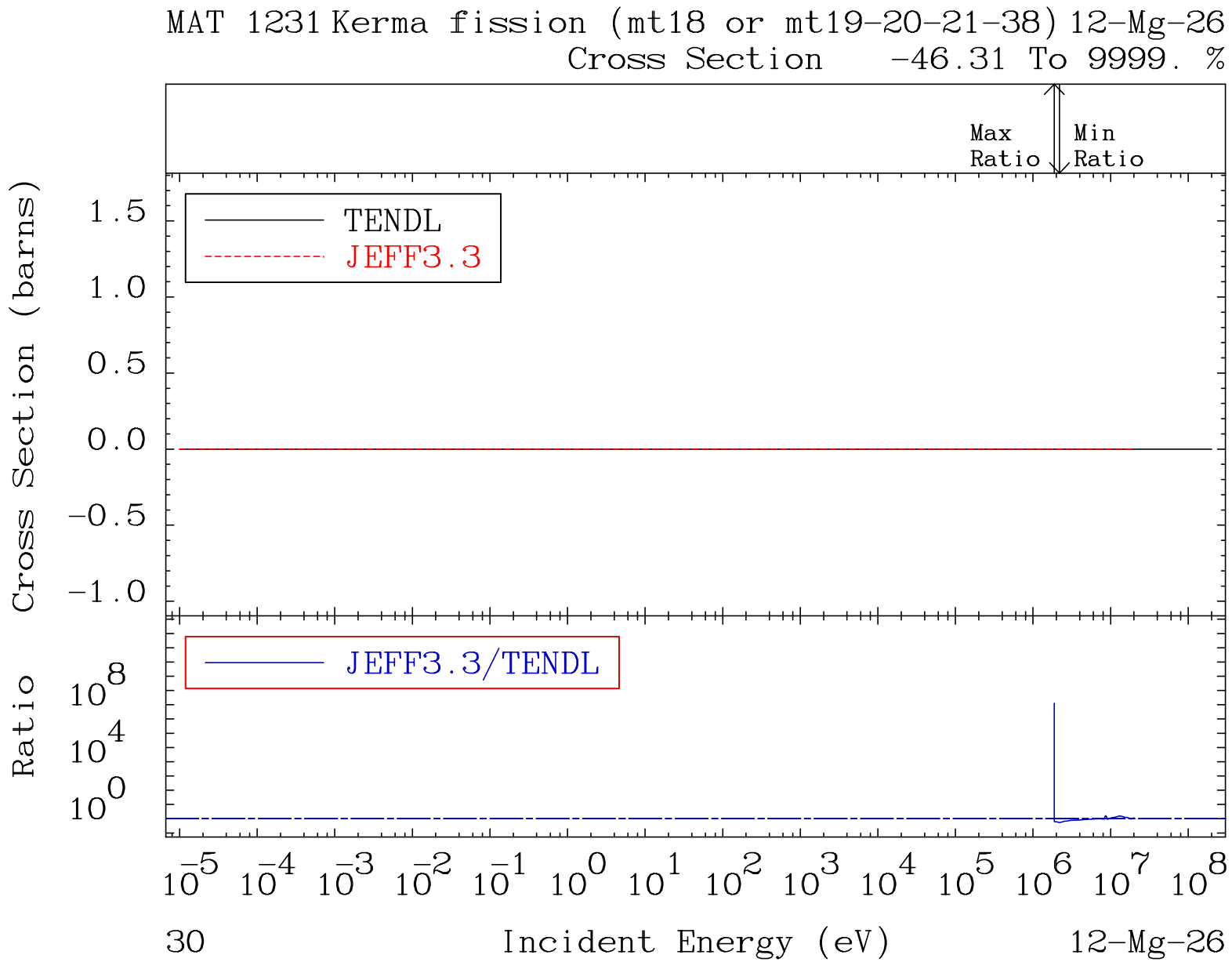

MAT 1231
He-4 Production
Cross Section
12-Mg-26
-100.0 To 3489. %
Max
Ratio
TENDL Threshold 5.6243 MeV
JEFF3.3 Threshold 7.0000 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
25
Incident Energy (eV)
12-Mg-26

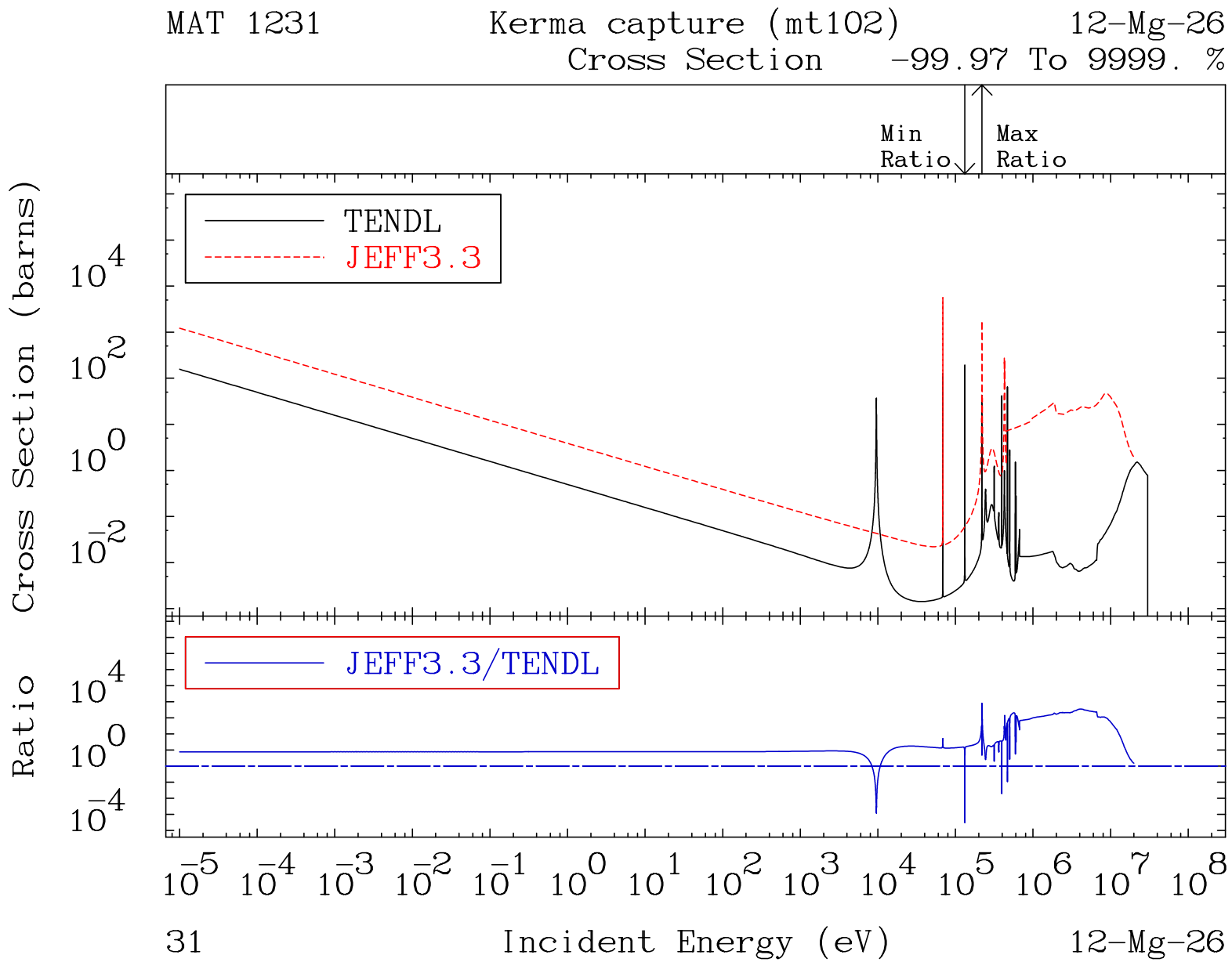

MAT 1231
Kerma total (eV-barns)
12-Mg-26
Cross Section -99.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
12-Mg-26

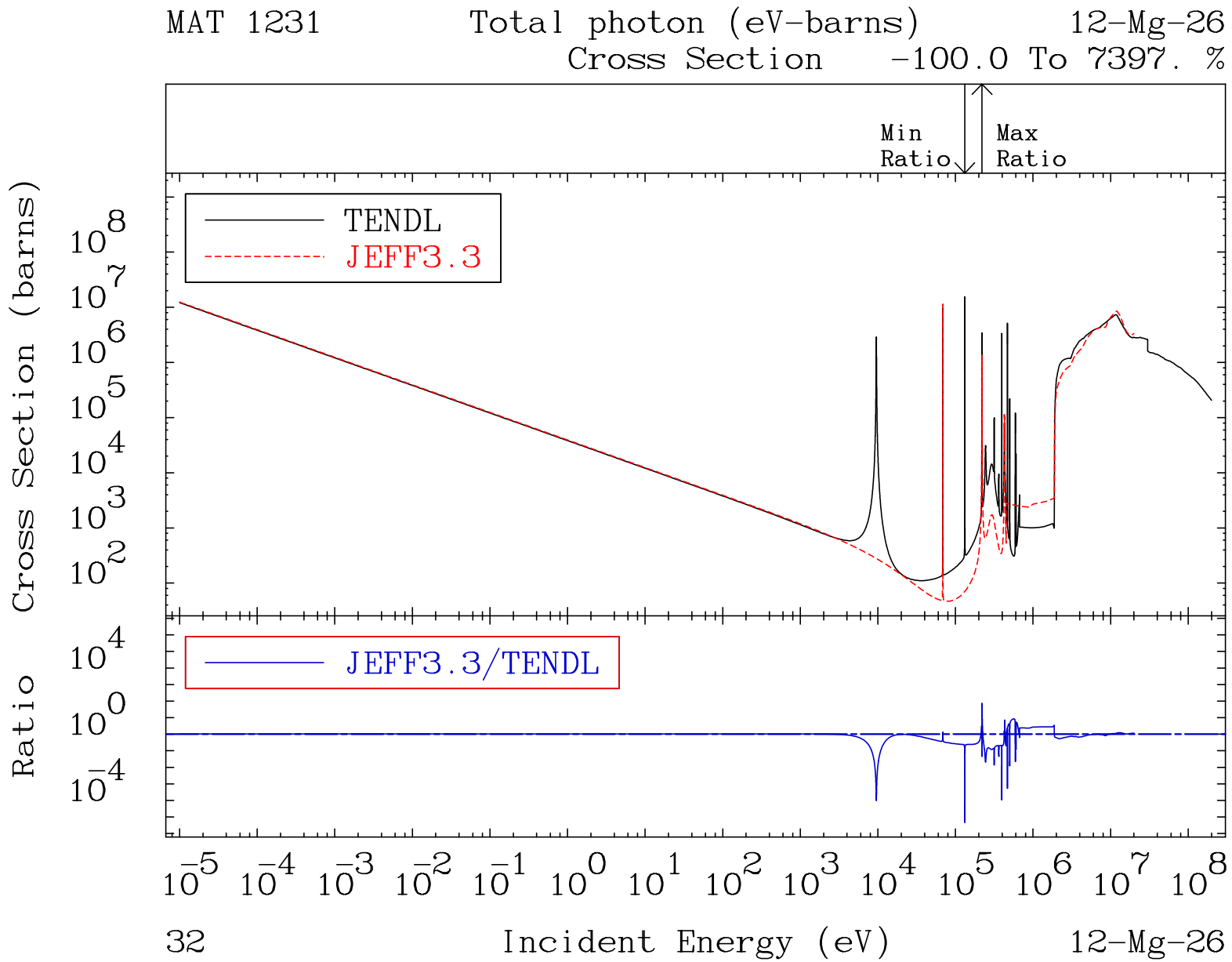

MAT 1231
Kerma elastic
Cross Section
12-Mg-26
-99.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
27
12-Mg-26

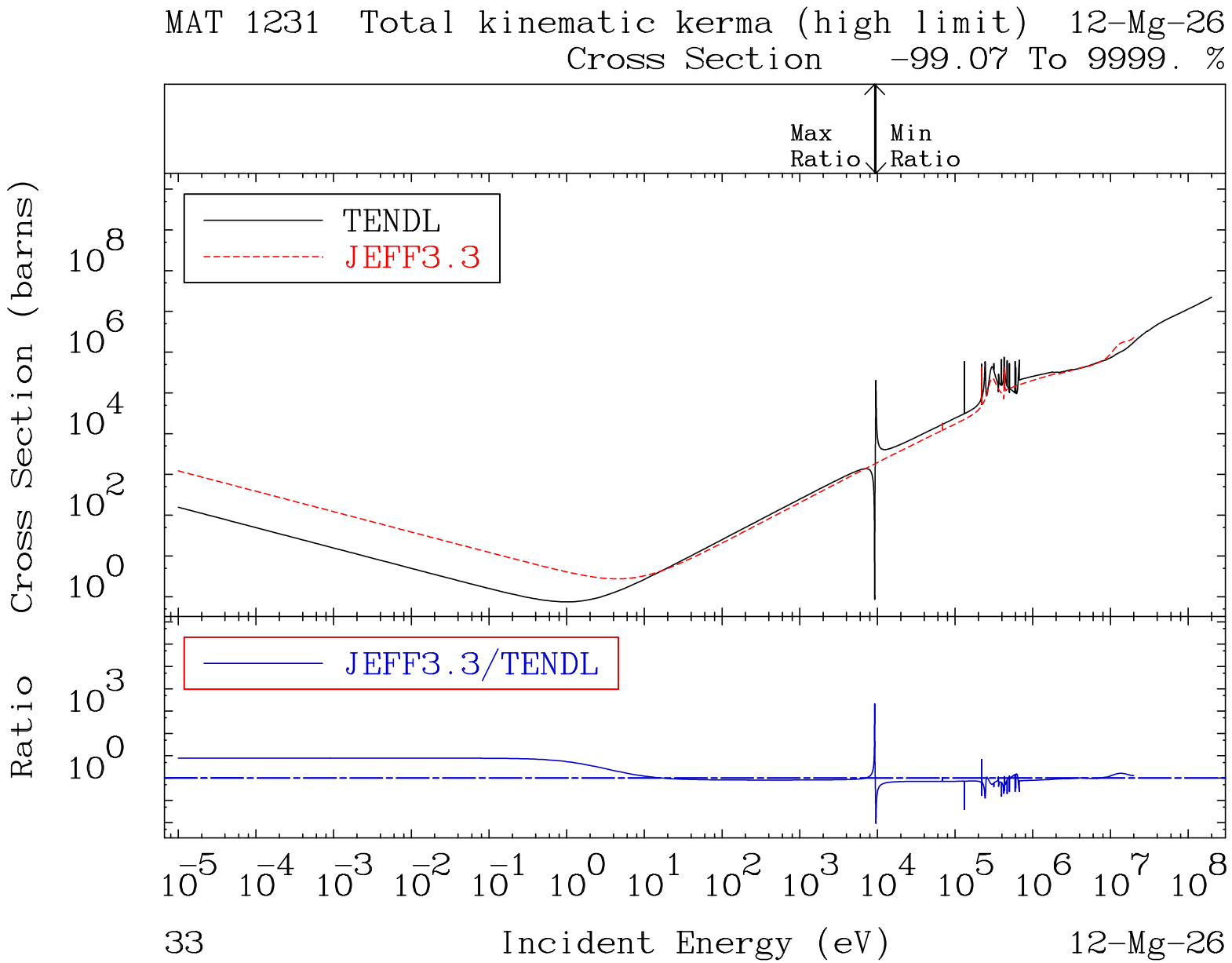

MAT 1231 Kerma non-elastic (all but mt2) 12-Mg-26
Cross Section -99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
12-Mg-26

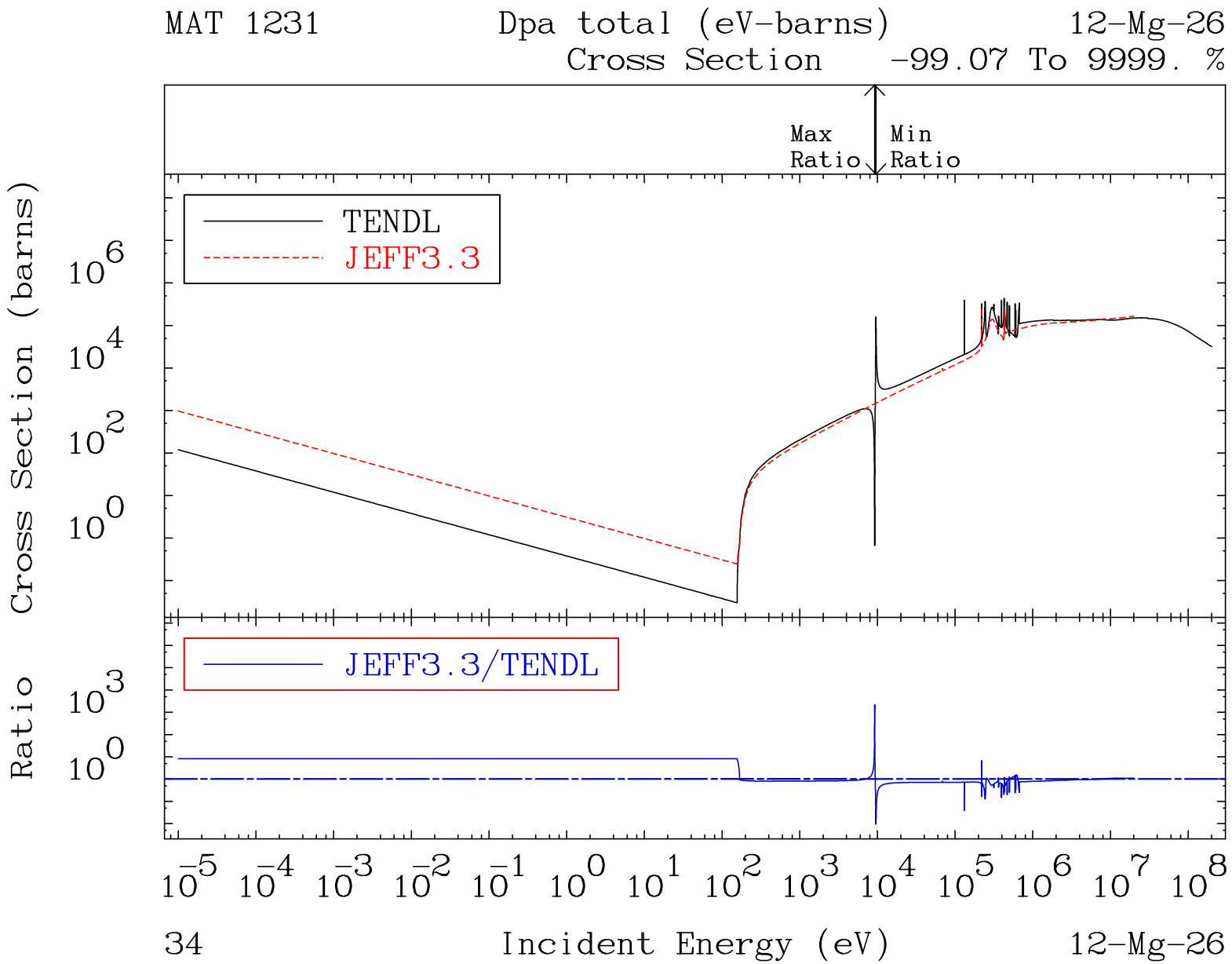

MAT 1231
Kerma inelastic (mt51-91)
12-Mg-26
Cross Section -46.31 To 9999. %
Min
Ratio
TENDL Threshold 1.8790 MeV
JEFF3.3 Threshold 1.8790 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
12-Mg-26

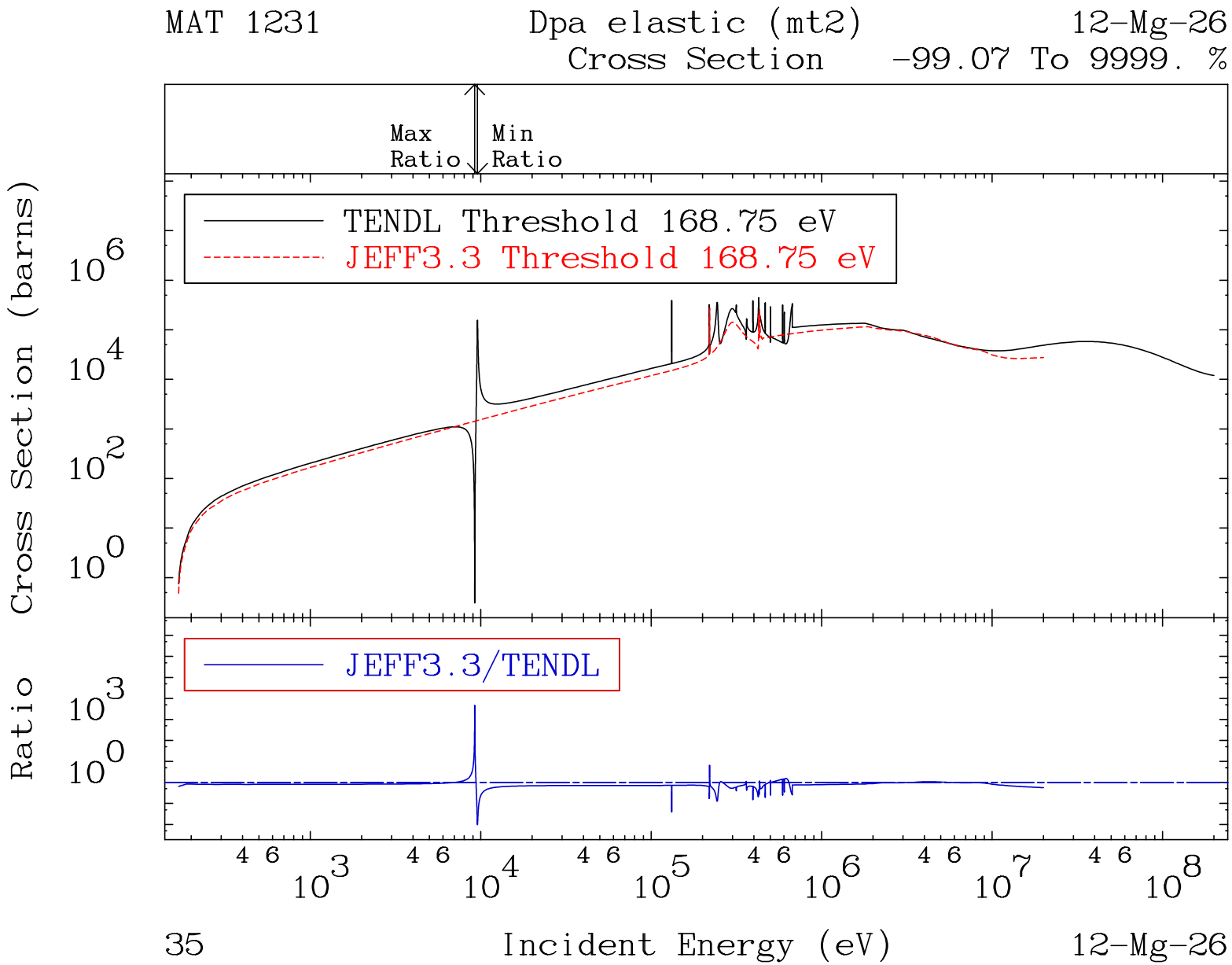

MAT 1231 Kerma fission (mt18 or mt19-20-21-38) 12-Mg-26
Cross Section -46.31 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{8}
10^{4}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
30
Incident Energy (eV)
12-Mg-26

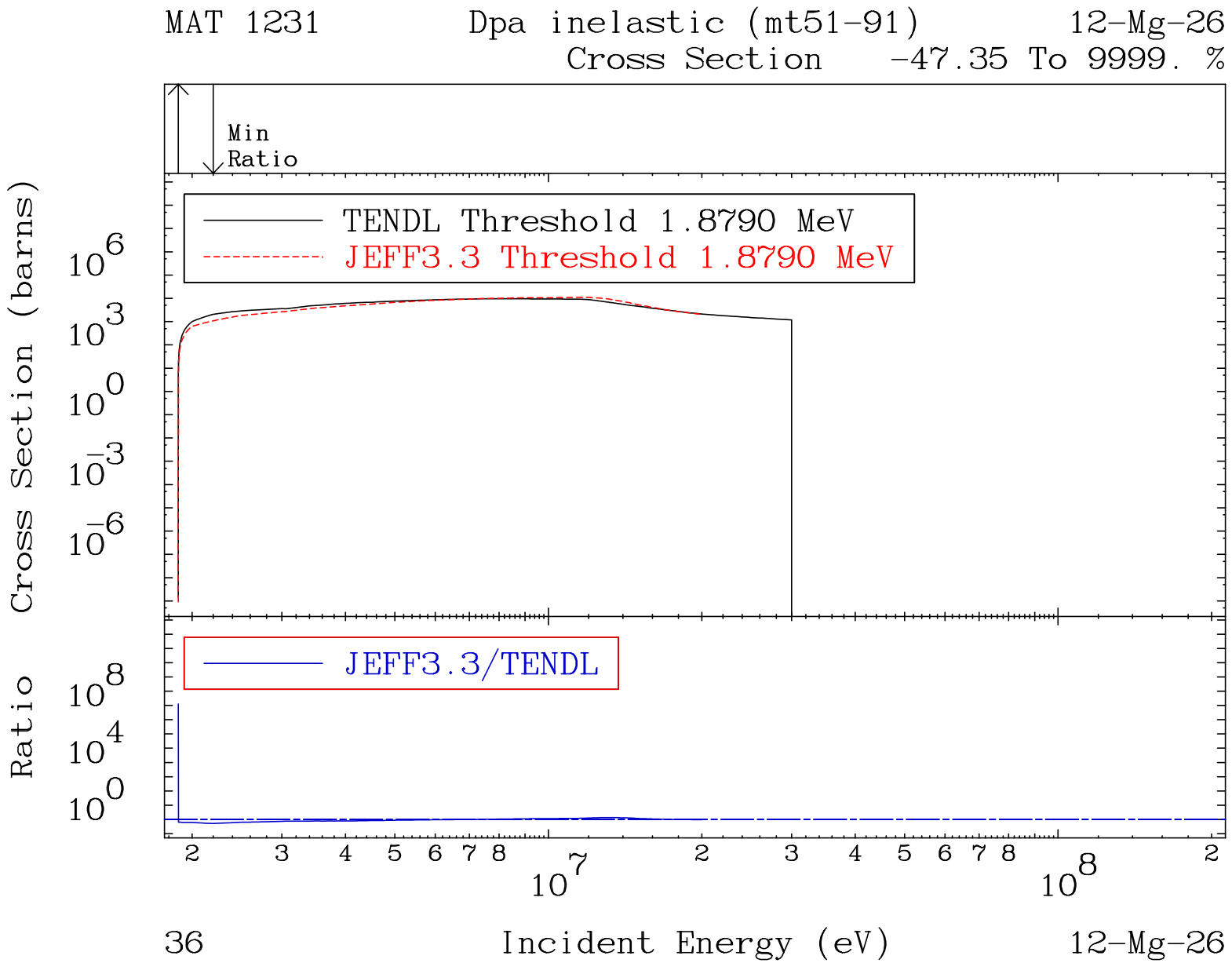

MAT 1231
Kerma capture (mt102)
12-Mg-26
Cross Section -99.97 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
31
12-Mg-26

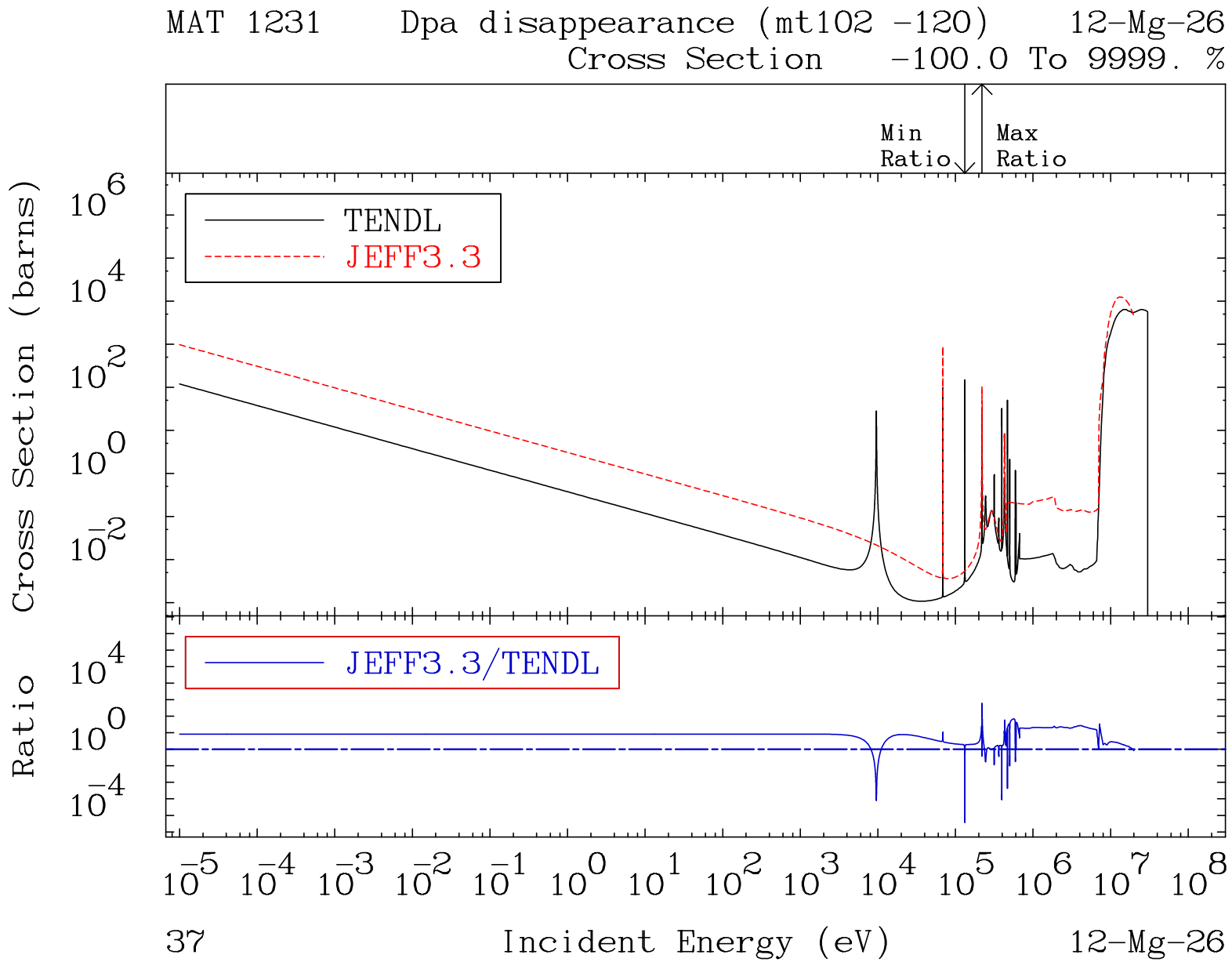

MAT 1231
Total photon (eV-barns)
12-Mg-26
Cross Section -100.0 To 7397. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
12-Mg-26


MAT 1231 Total kinematic kerma (high limit) 12-Mg-26
Cross Section -99.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
12-Mg-26


MAT 1231
Dpa total (eV-barns)
12-Mg-26
Cross Section
-99.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
12-Mg-26


MAT 1231
Dpa elastic (mt2)
Cross Section
12-Mg-26
-99.07 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 168.75 eV
JEFF3.3 Threshold 168.75 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
12-Mg-26


MAT 1231
Dpa inelastic (mt51-91)
12-Mg-26
Cross Section -47.35 To 9999. %
Min
Ratio
TENDL Threshold 1.8790 MeV
JEFF3.3 Threshold 1.8790 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
12-Mg-26


MAT 1231 Dpa disappearance (mt102 -120) 12-Mg-26
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
12-Mg-26