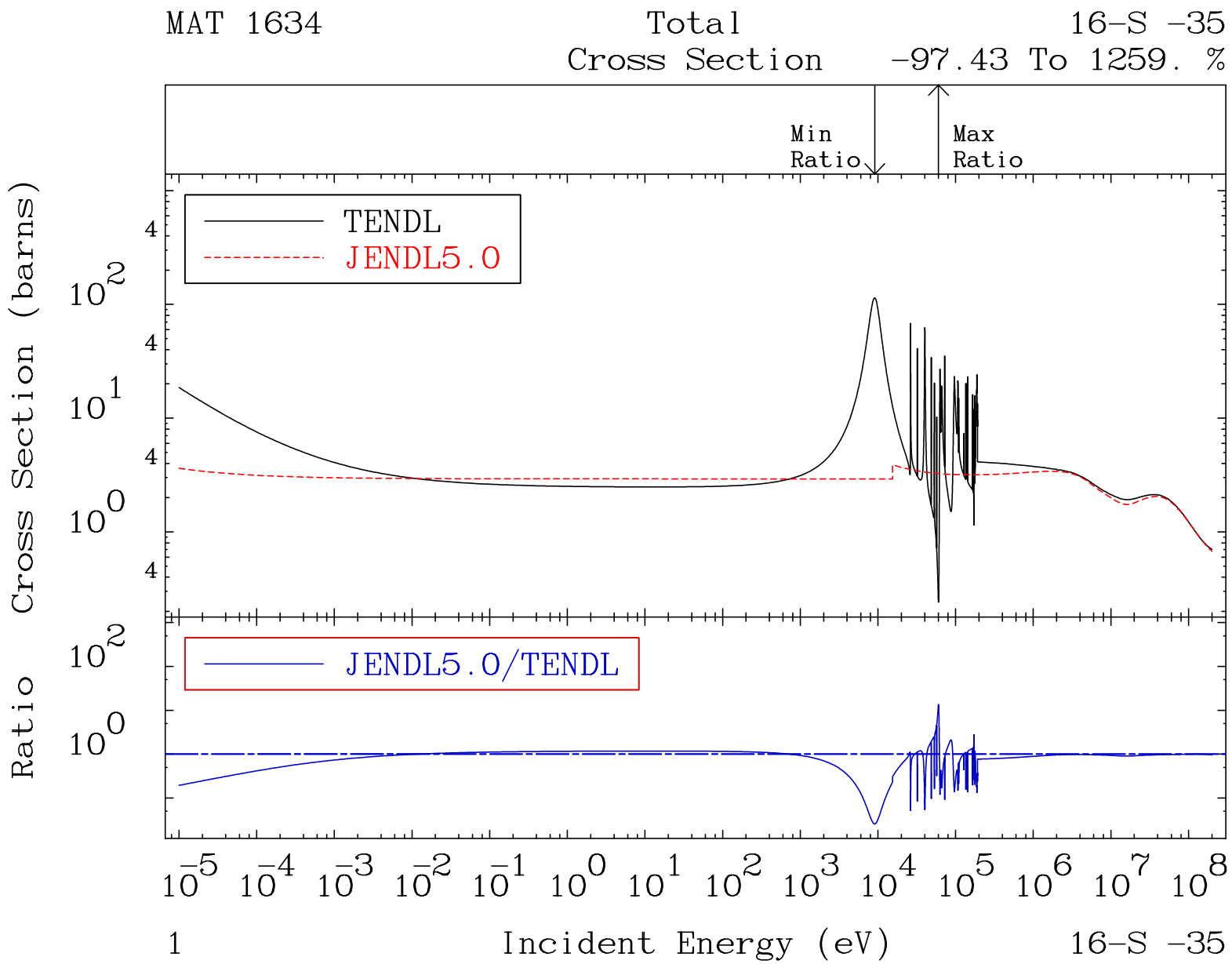
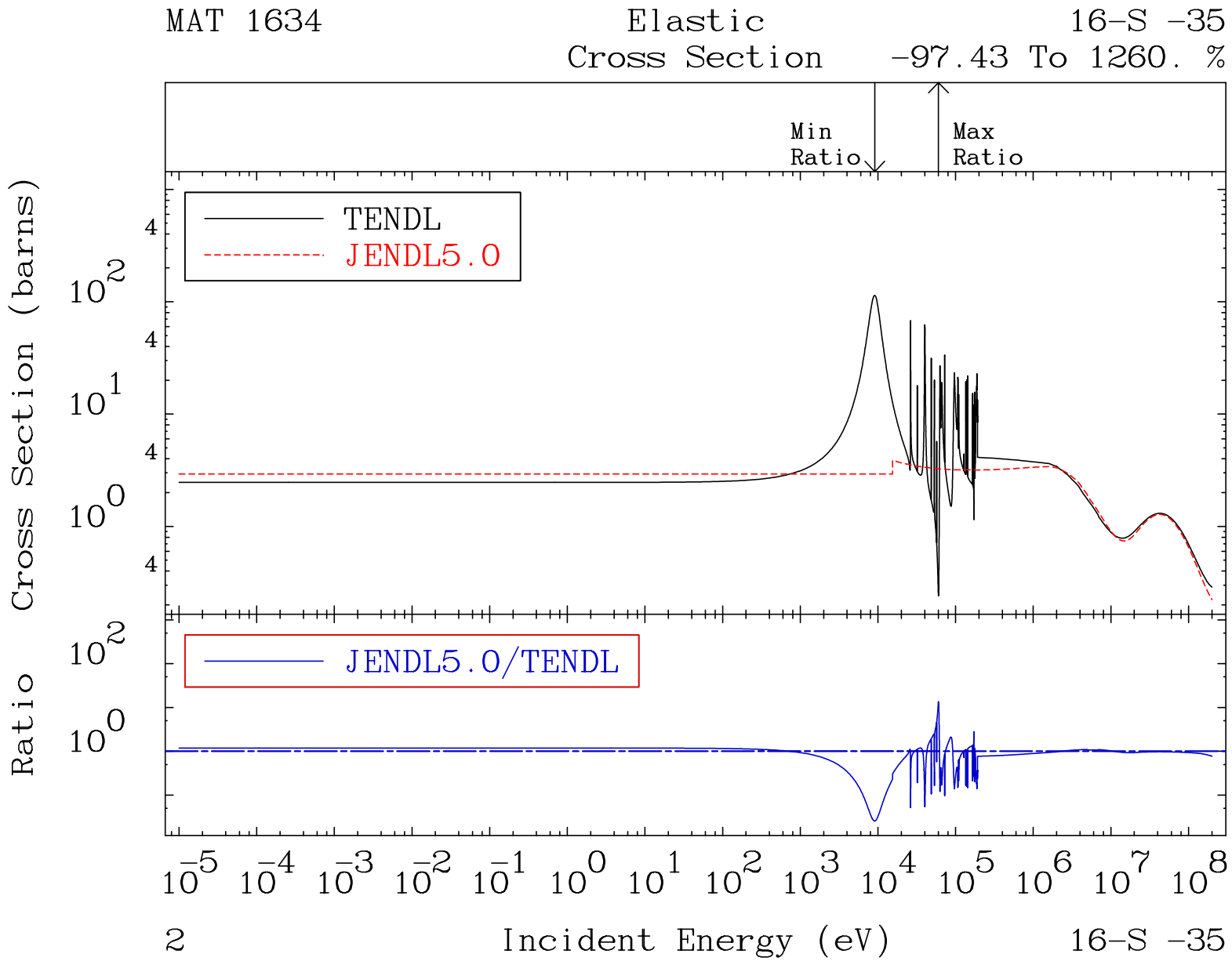
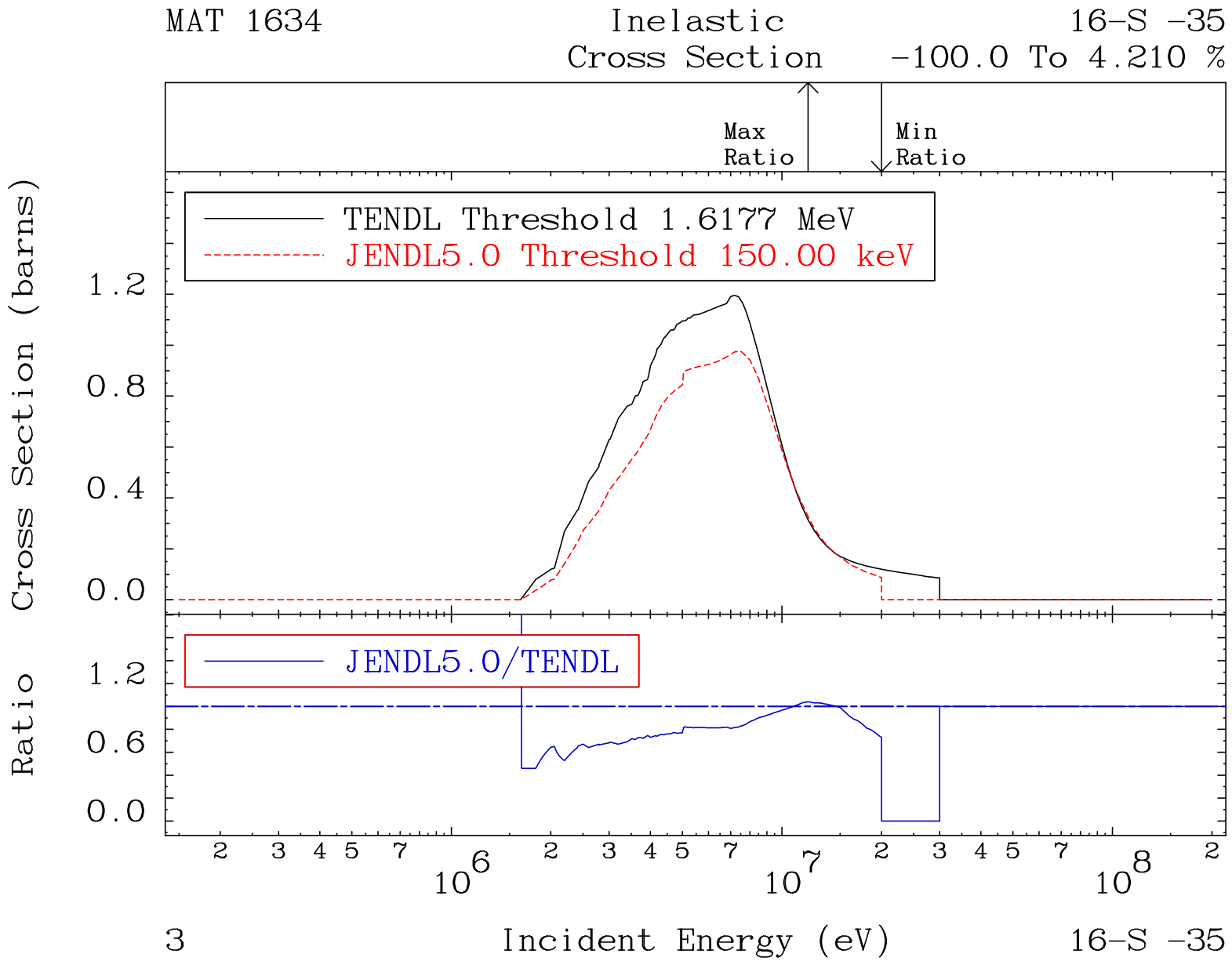
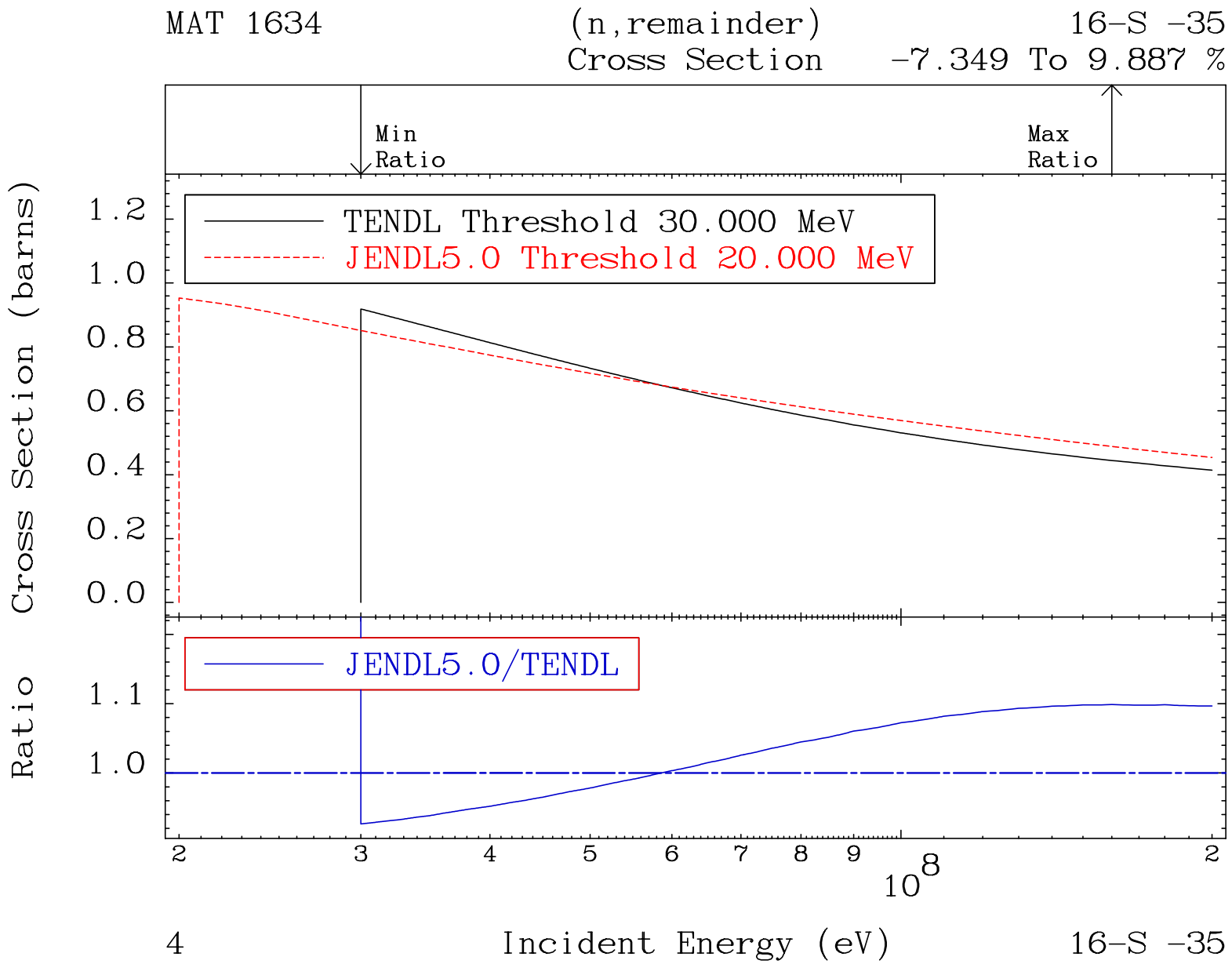
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

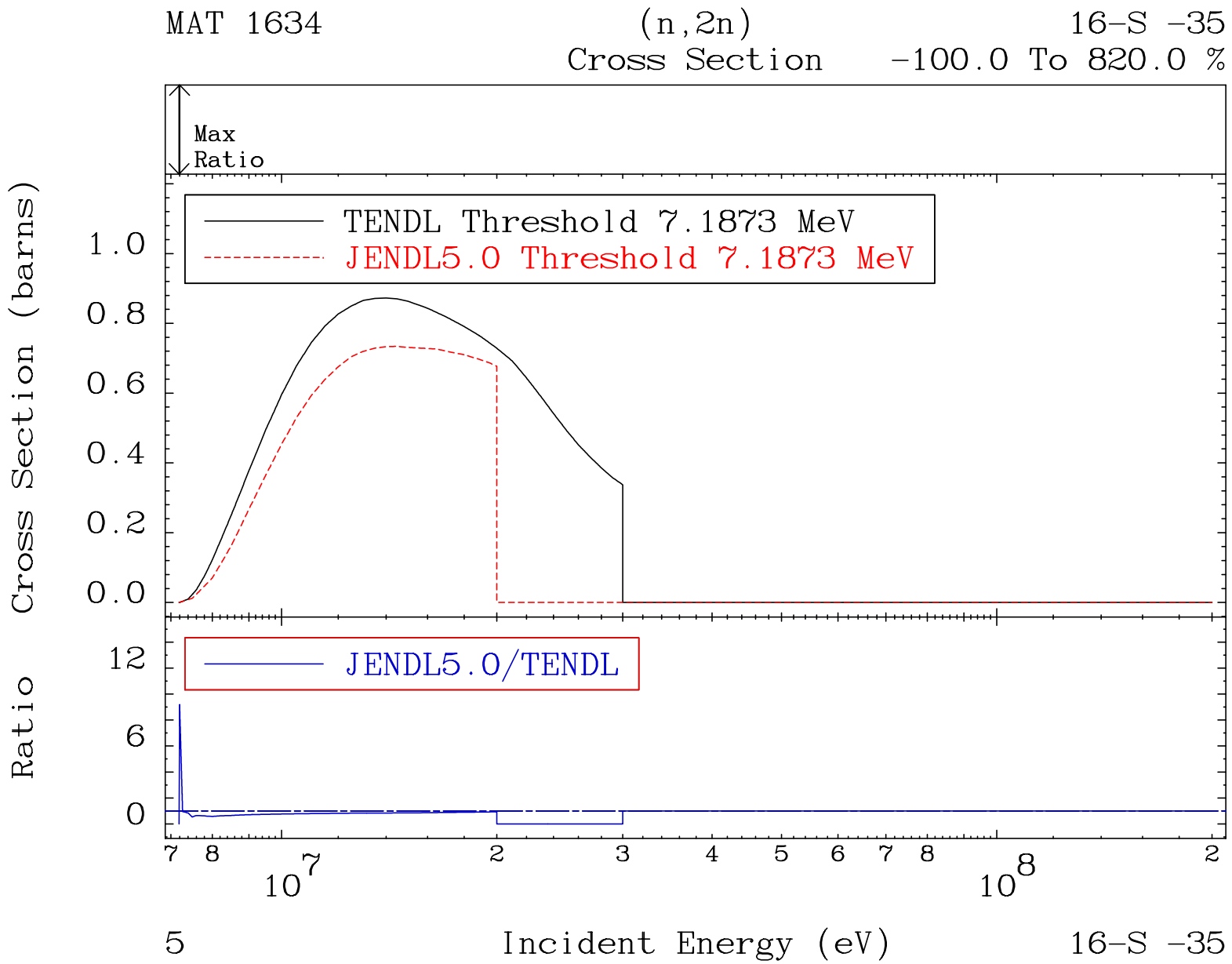
Press Mouse Button to Start

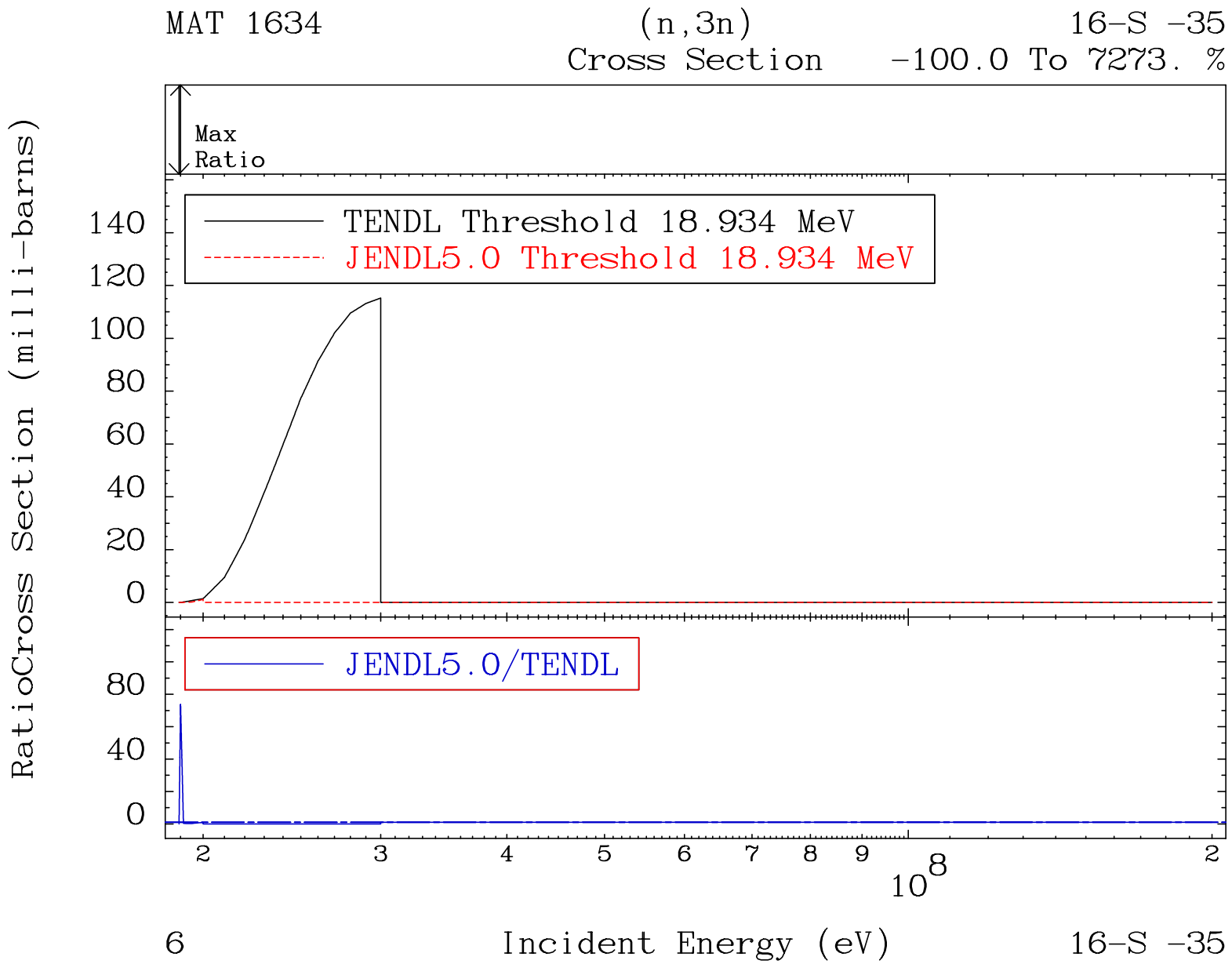

MAT 1634
Total
Cross Section
16-S -35
-97.43 To 1259. %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
16-S -35

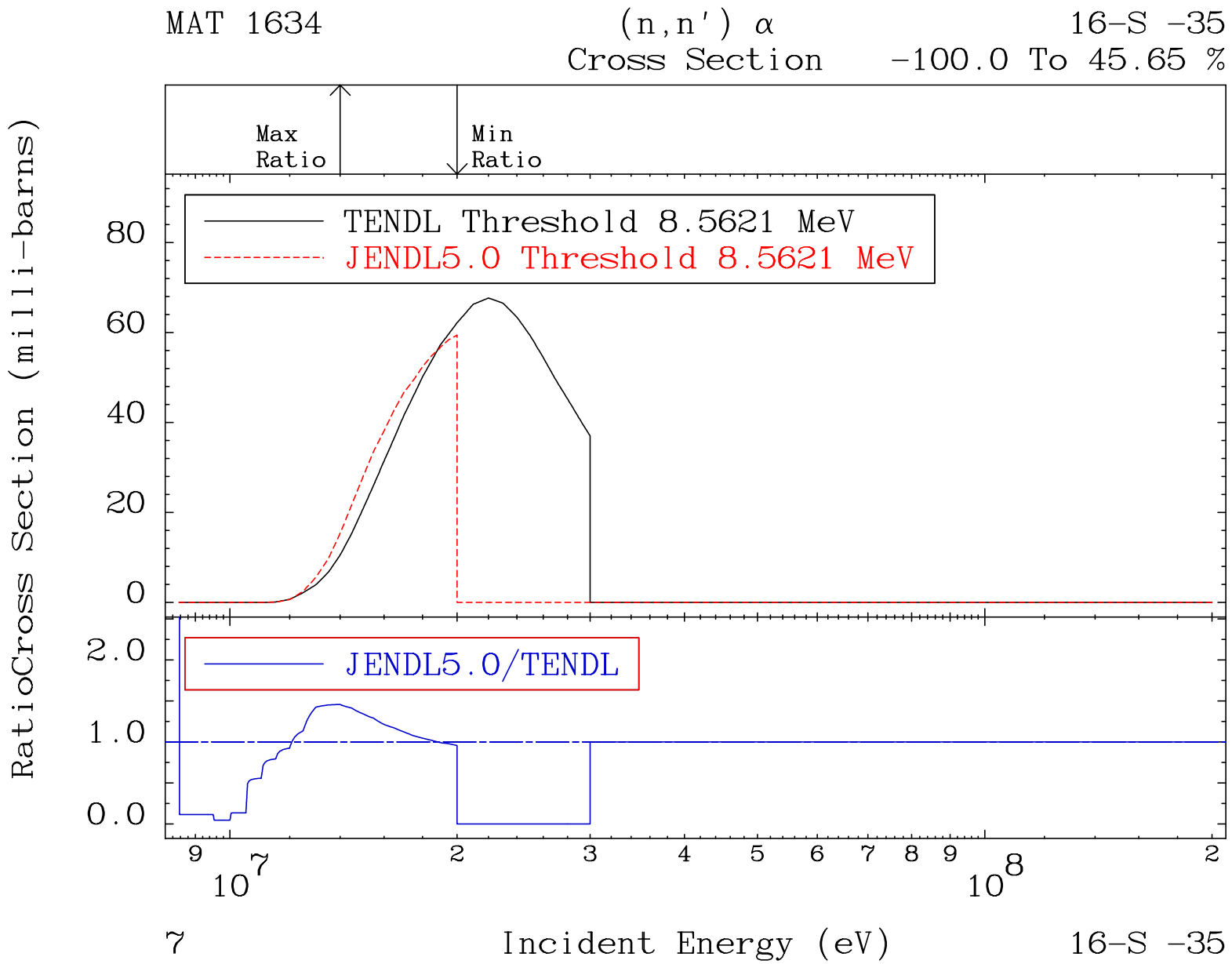

MAT 1634
Elastic
Cross Section
16-S -35
-97.43 To 1260. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
16-S -35

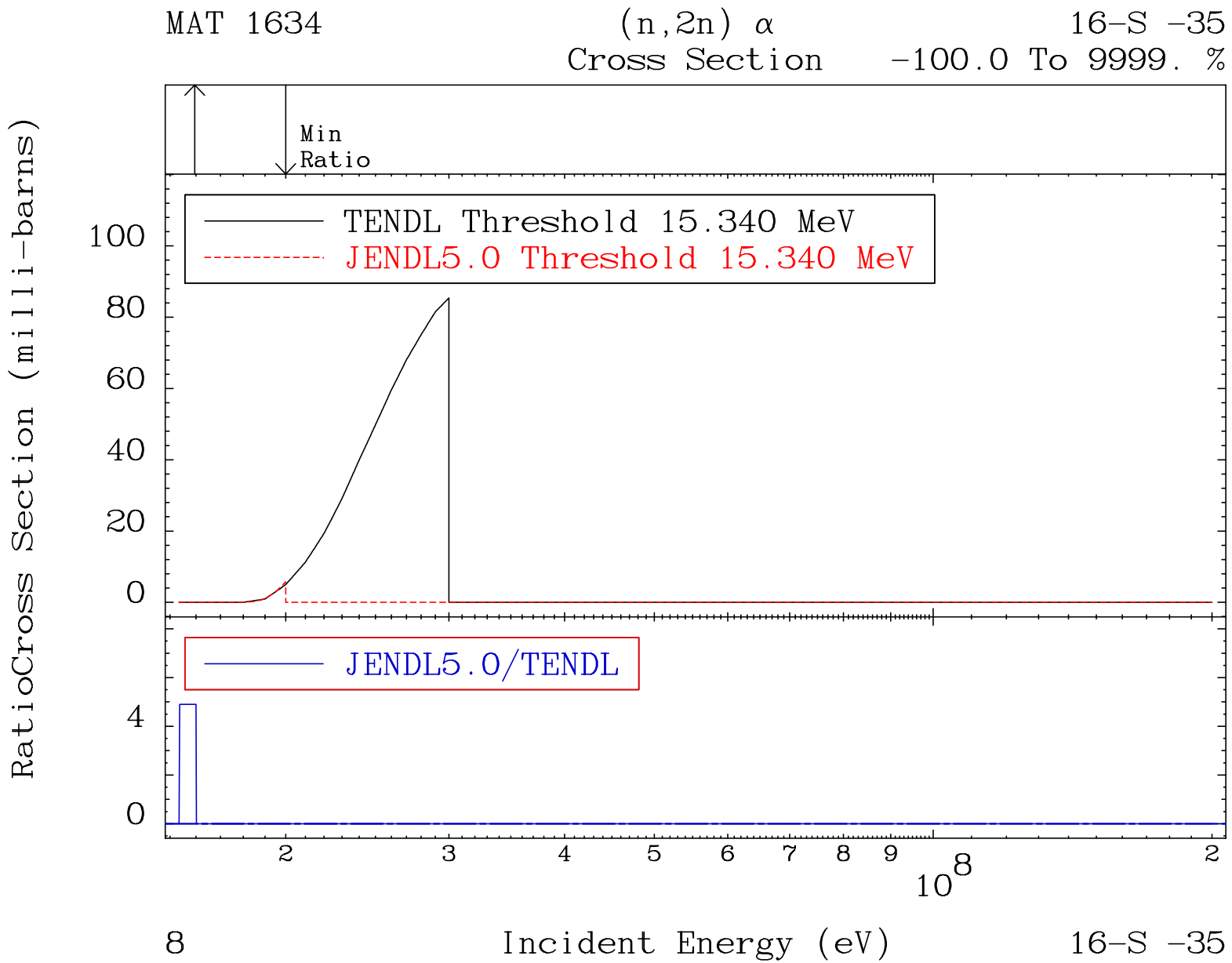

MAT 1634
Inelastic
Cross Section
16-S -35
-100.0 To 4.210 %
Max
Ratio
Min
Ratio
TENDL Threshold 1.6177 MeV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
3
Incident Energy (eV)
16-S -35

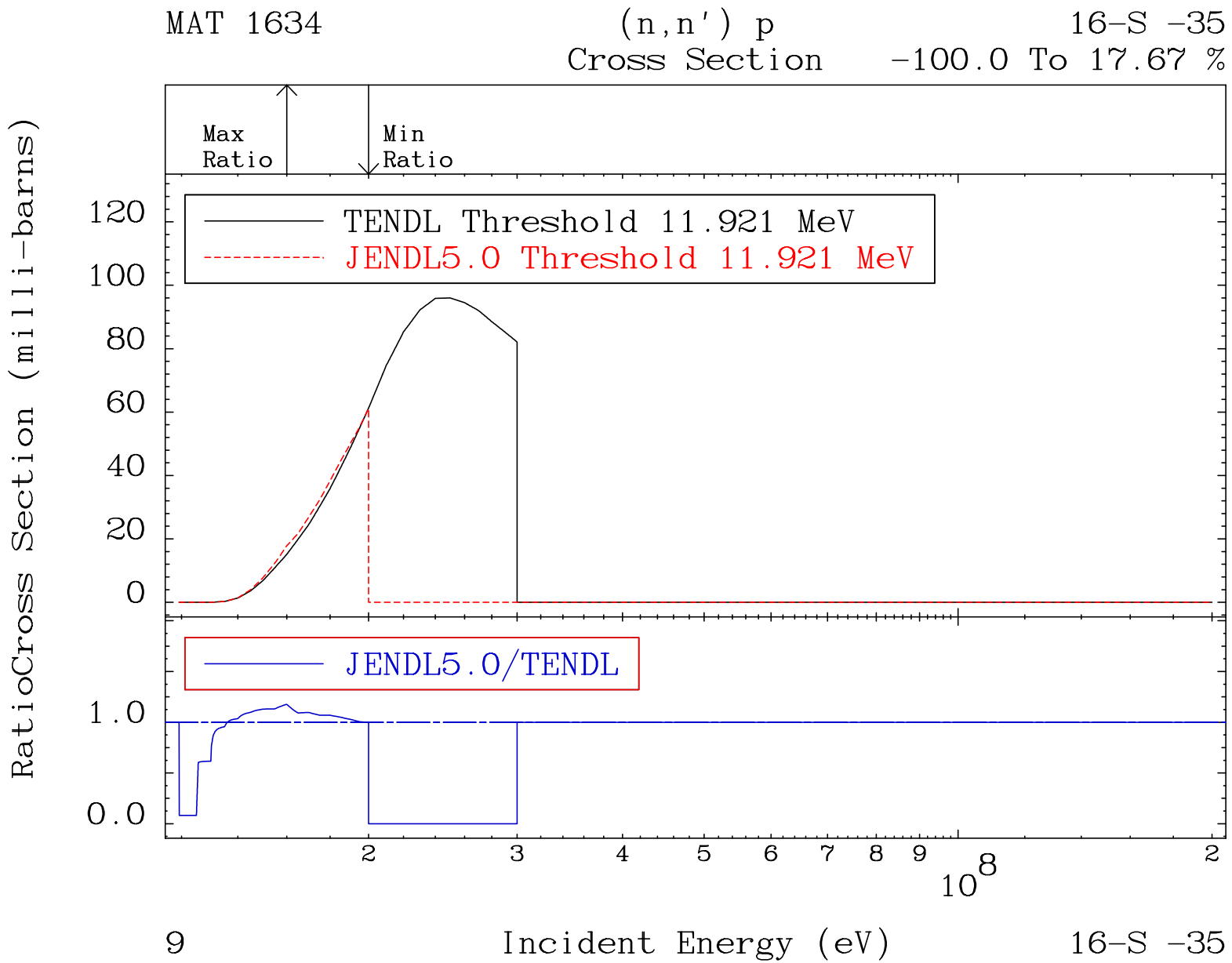

MAT 1634
(n,remainder)
Cross Section
16-S -35
-7.349 To 9.887 %
Min
Ratio
Max
Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.1
1.0
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
4
16-S -35

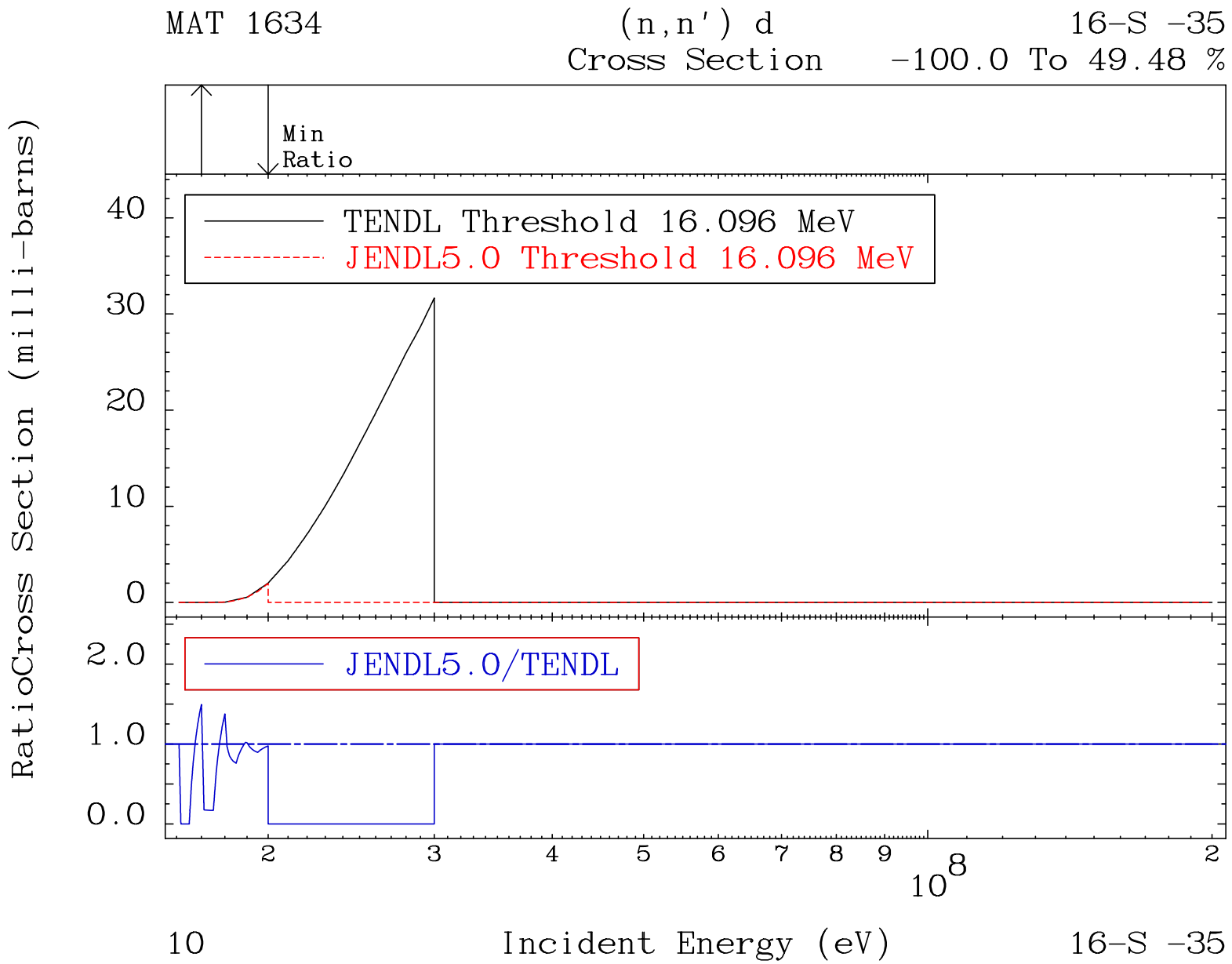

MAT 1634
(n,2n)
Cross Section
16-S -35
-100.0 To 820.0 %
Max
Ratio
TENDL Threshold 7.1873 MeV
JENDL5.0 Threshold 7.1873 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
12
6
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
5
16-S -35

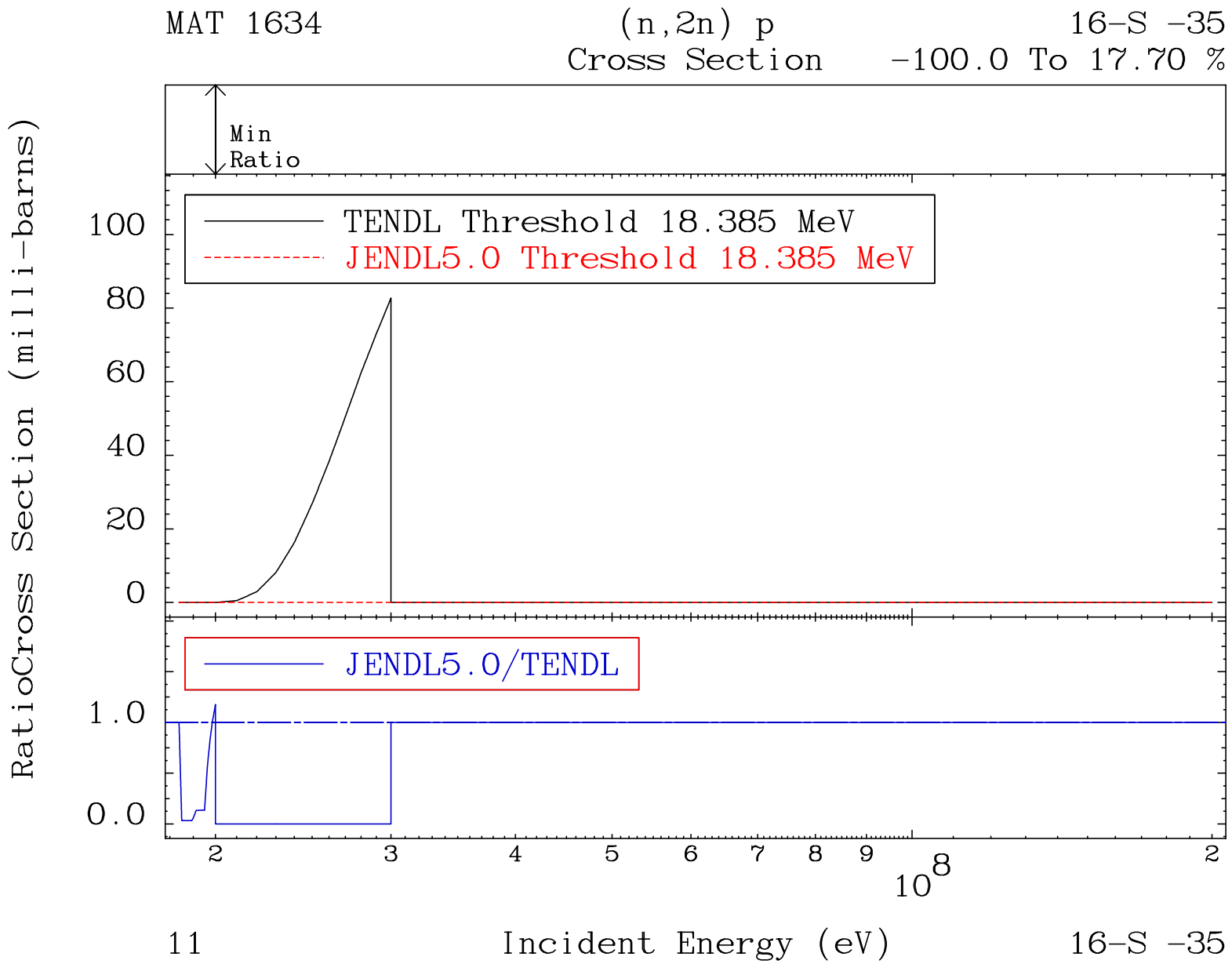

MAT 1634
(n,3n)
16-S -35
Cross Section
-100.0 To 7273. %
Max
Ratio
TENDL Threshold 18.934 MeV
JENDL5.0 Threshold 18.934 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
80
40
0
2
3
4
5
6
7
8
9
2
10^8
6
Incident Energy (eV)
16-S -35

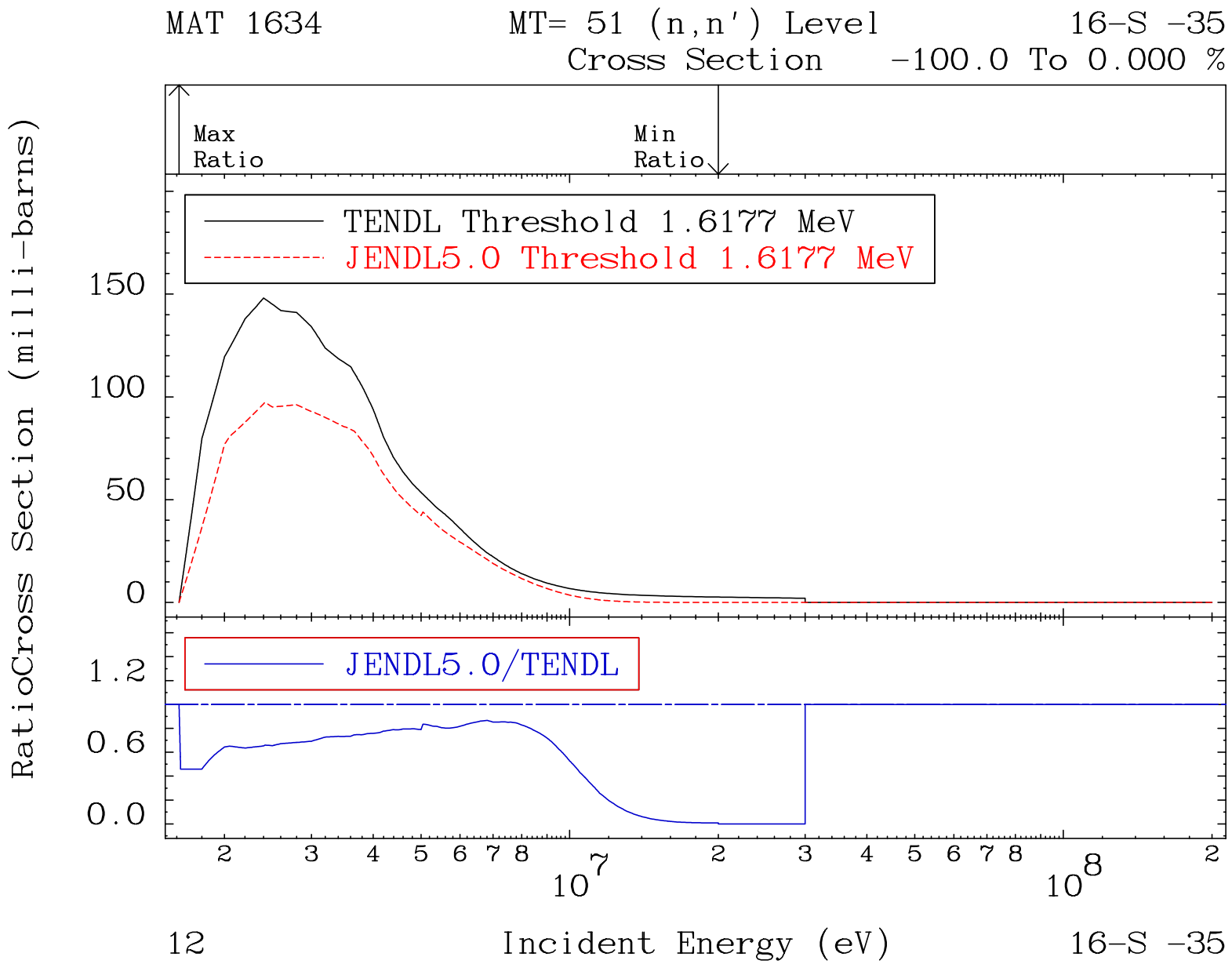

MAT 1634
(n,n') α
Cross Section
16-S -35
-100.0 To 45.65 %
Max Ratio
Min Ratio
TENDL Threshold 8.5621 MeV
JENDL5.0 Threshold 8.5621 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
16-S -35

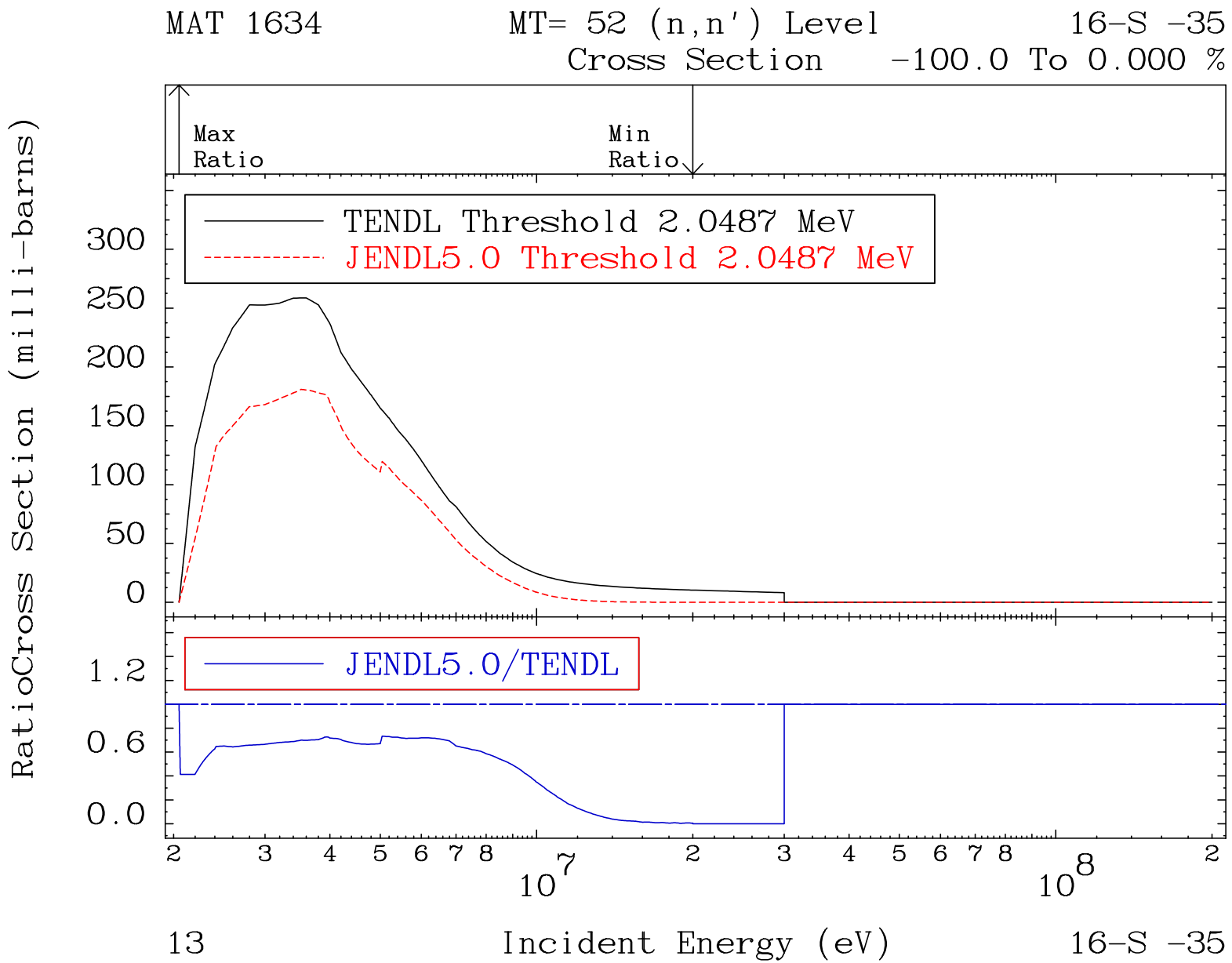

MAT 1634
(n,2n) α
16-S -35
Cross Section
-100.0 To 9999. %
Min
Ratio
TENDL Threshold 15.340 MeV
JENDL5.0 Threshold 15.340 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
16-S -35

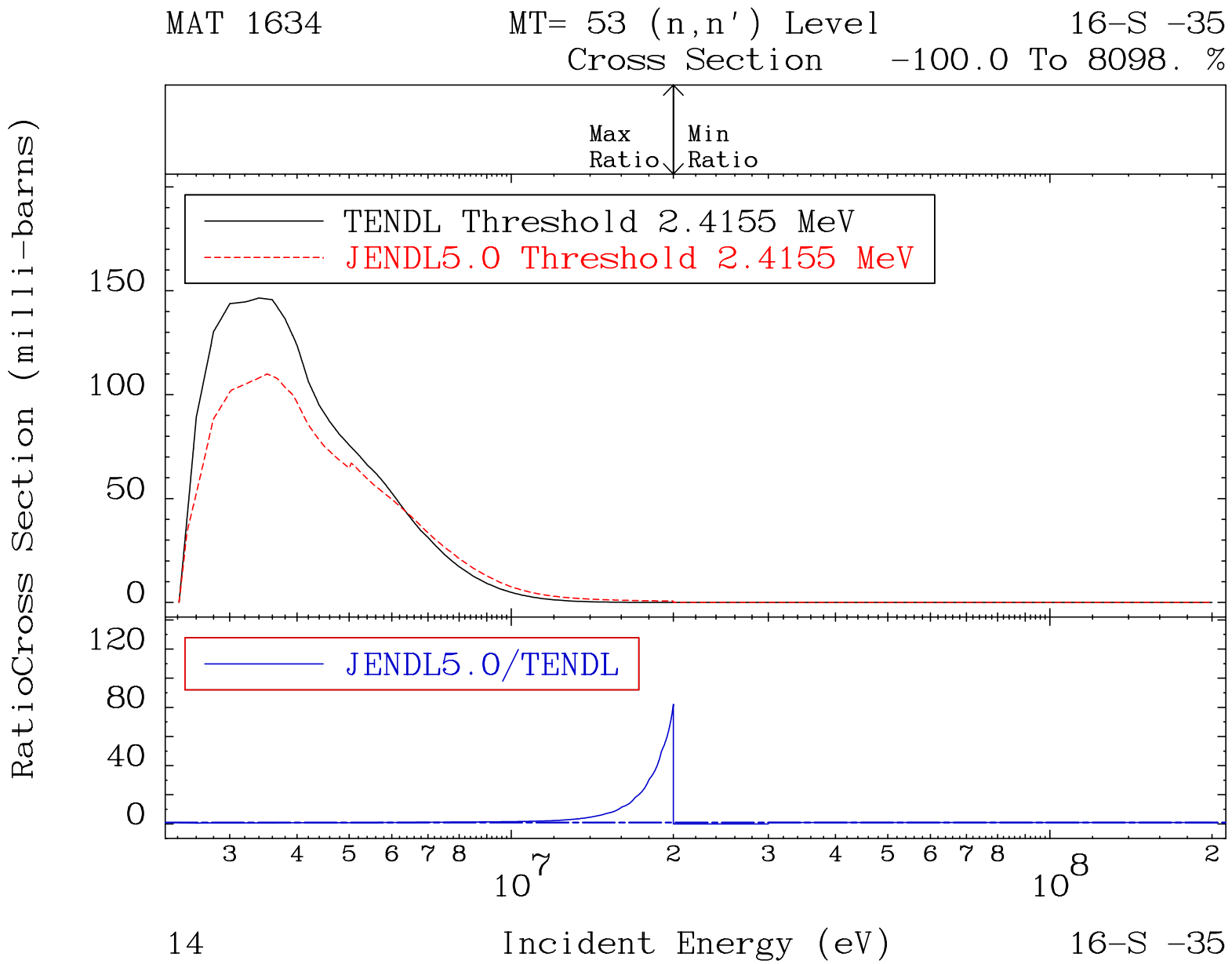

MAT 1634
(n,n') p
Cross Section
16-S -35
-100.0 To 17.67 %
Max Ratio
Min Ratio
TENDL Threshold 11.921 MeV
JENDL5.0 Threshold 11.921 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
16-S -35

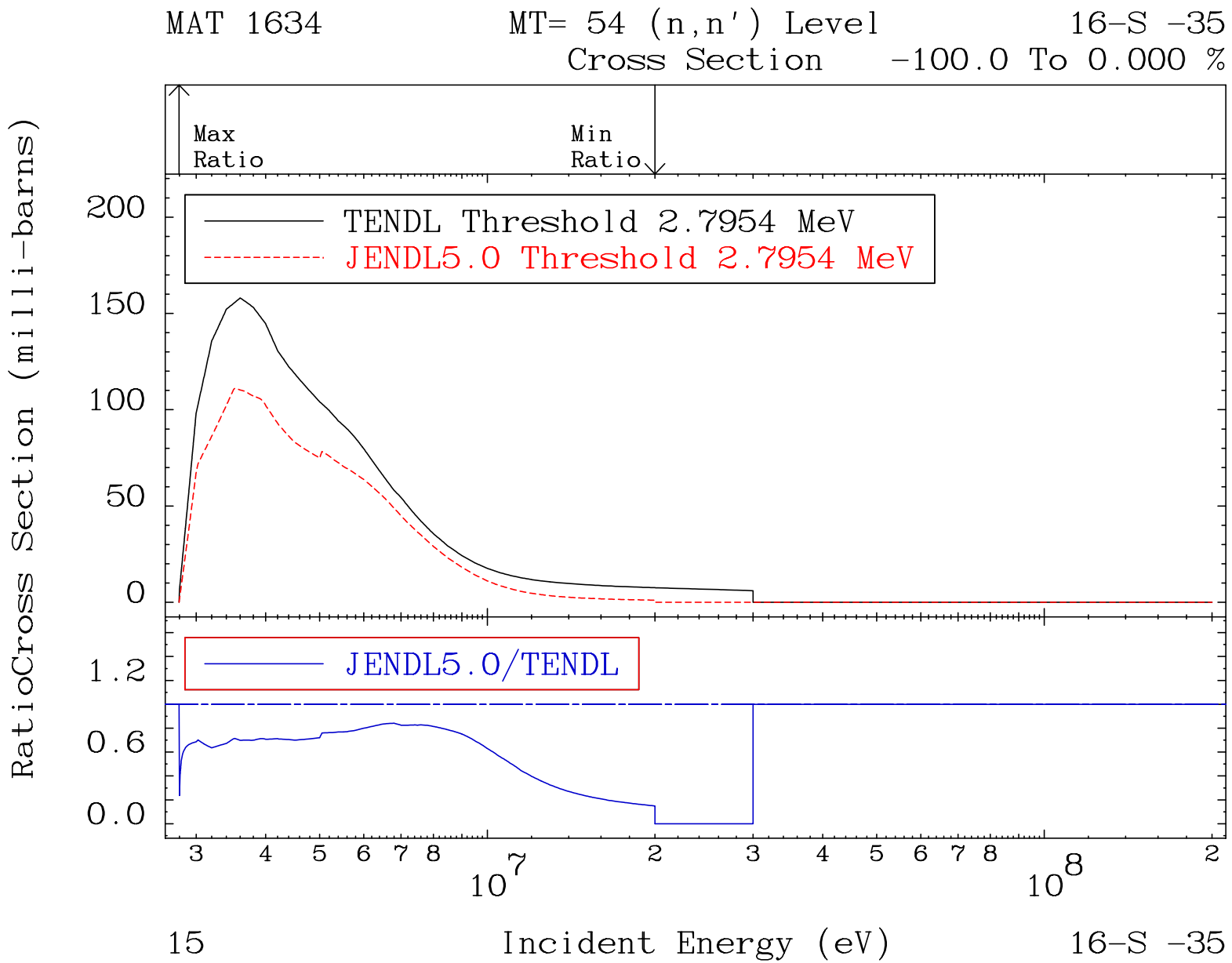

MAT 1634
(n,n') d
Cross Section
16-S -35
-100.0 To 49.48 %
Min
Ratio
TENDL Threshold 16.096 MeV
JENDL5.0 Threshold 16.096 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
16-S -35

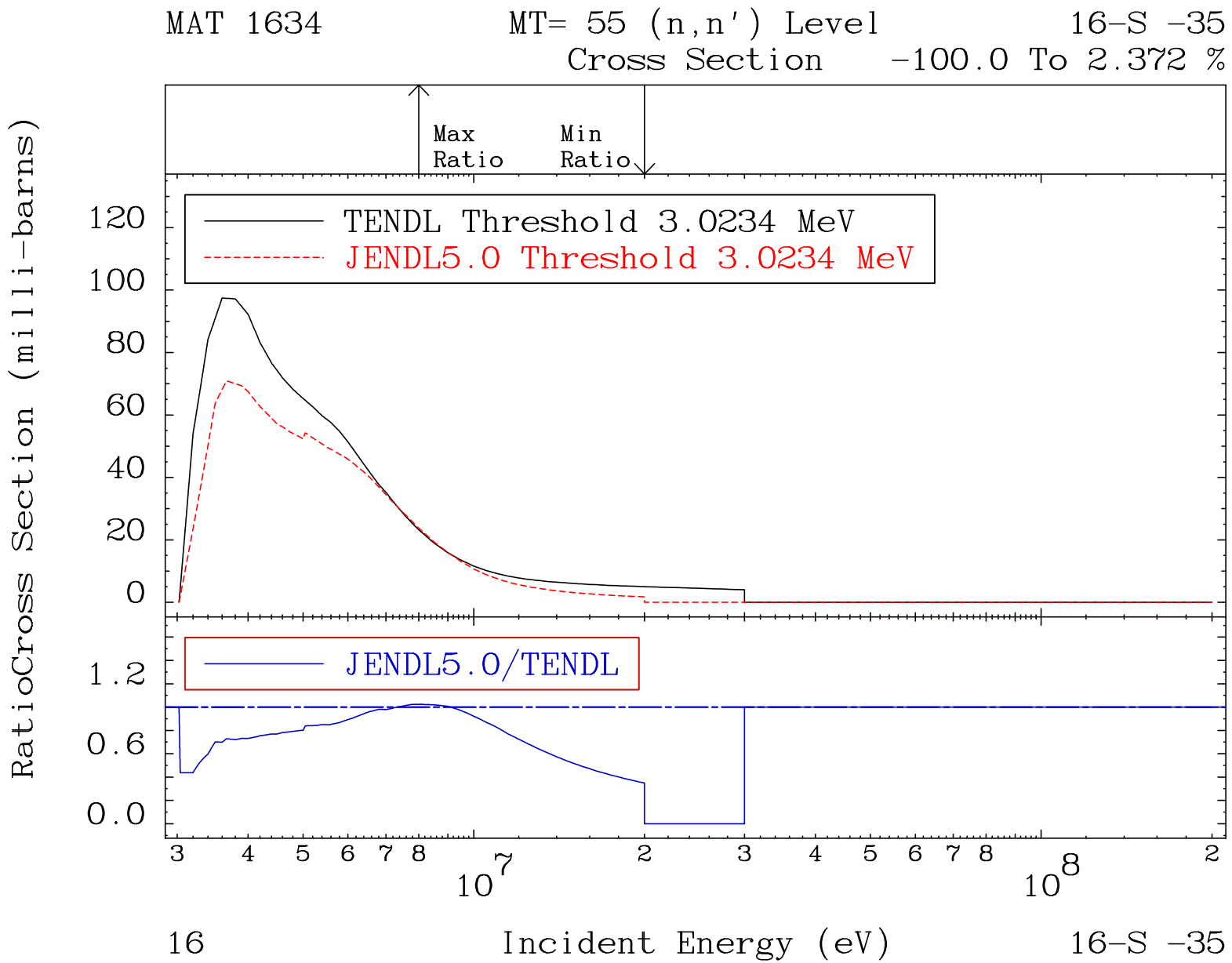

MAT 1634
(n,2n) p
16-S -35
Cross Section
-100.0 To 17.70 %
Min
Ratio
TENDL Threshold 18.385 MeV
JENDL5.0 Threshold 18.385 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
16-S -35

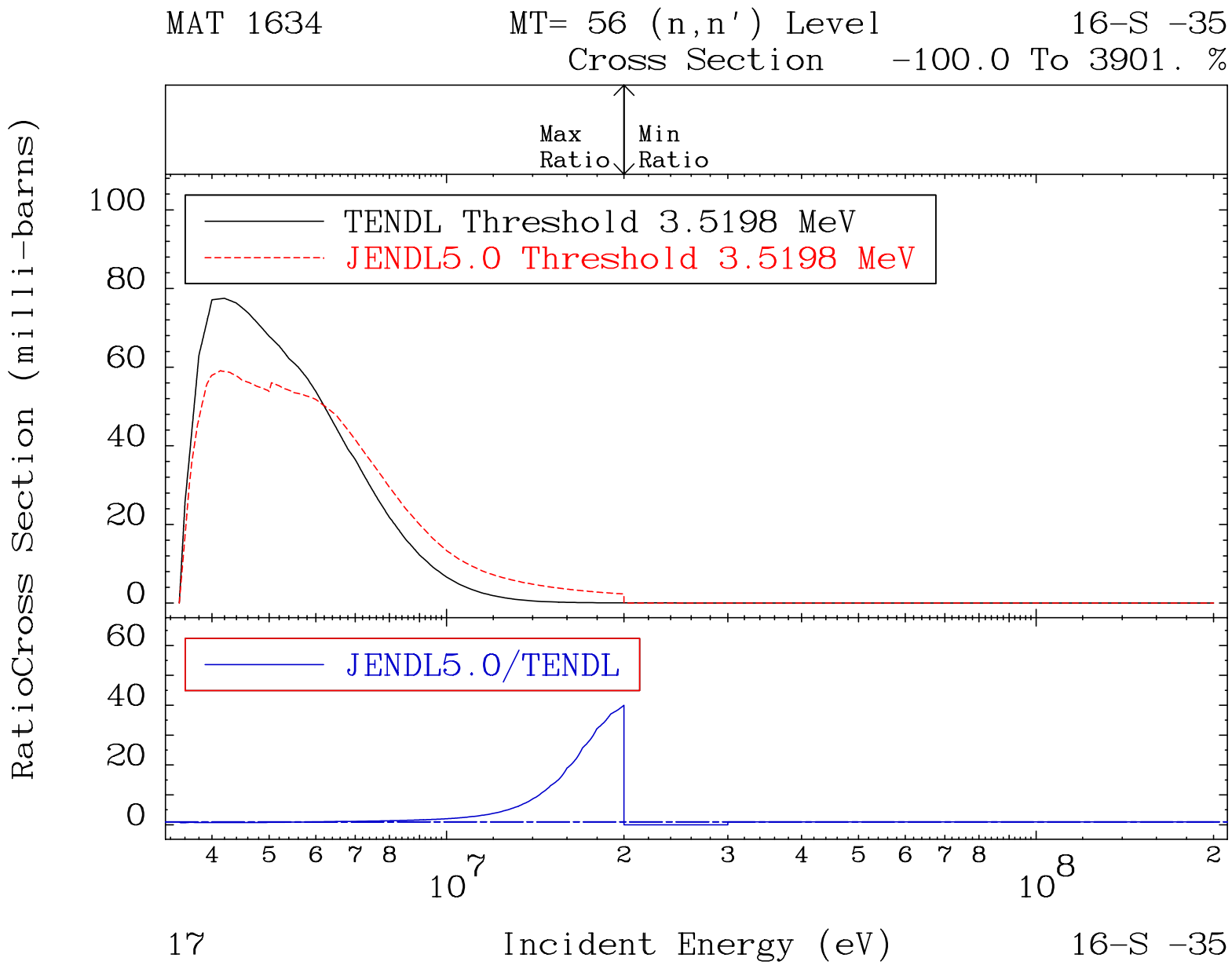

MAT 1634
MT= 51 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.6177 MeV
JENDL5.0 Threshold 1.6177 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
16-S -35

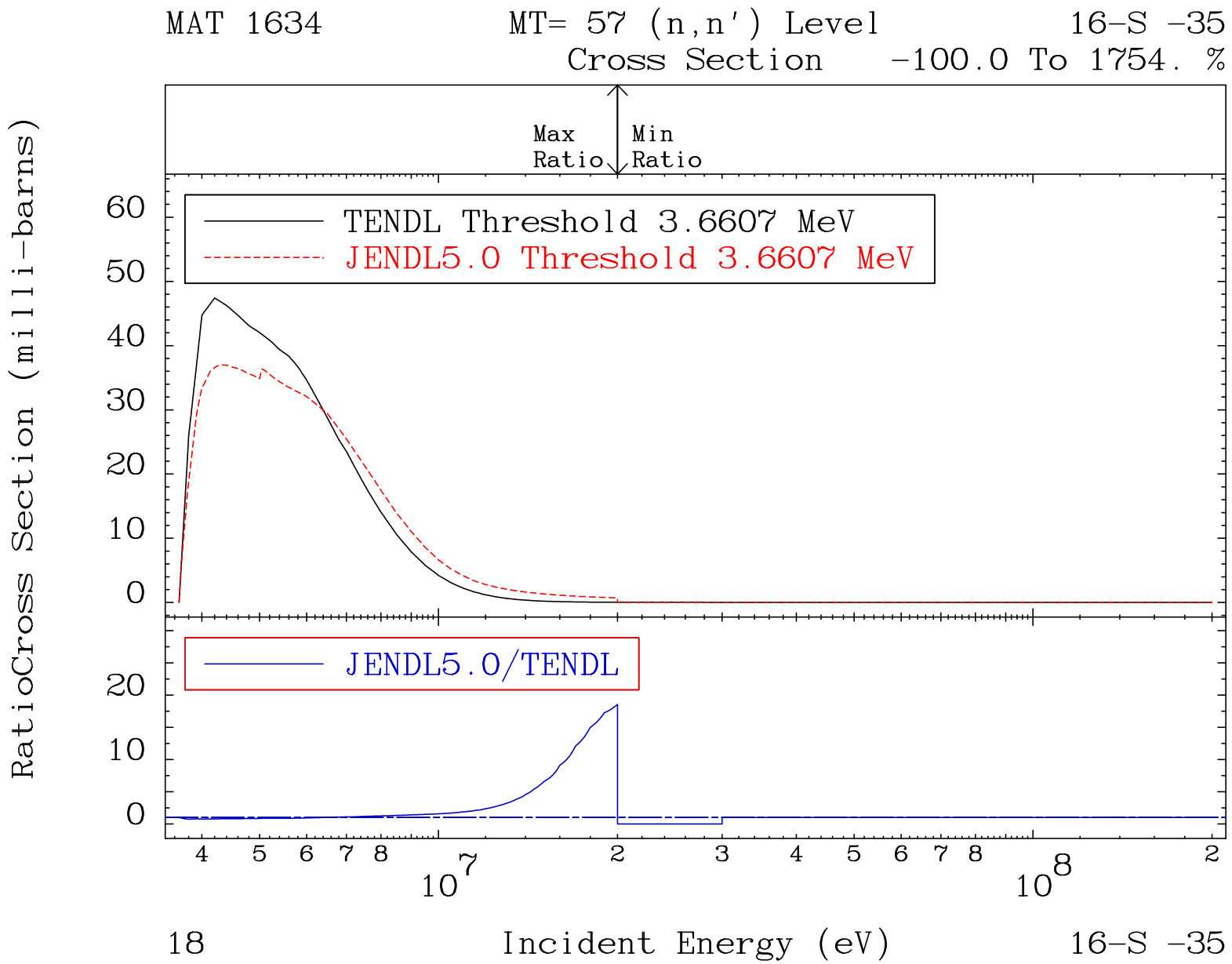

MAT 1634
MT= 52 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.0487 MeV
JENDL5.0 Threshold 2.0487 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
16-S -35

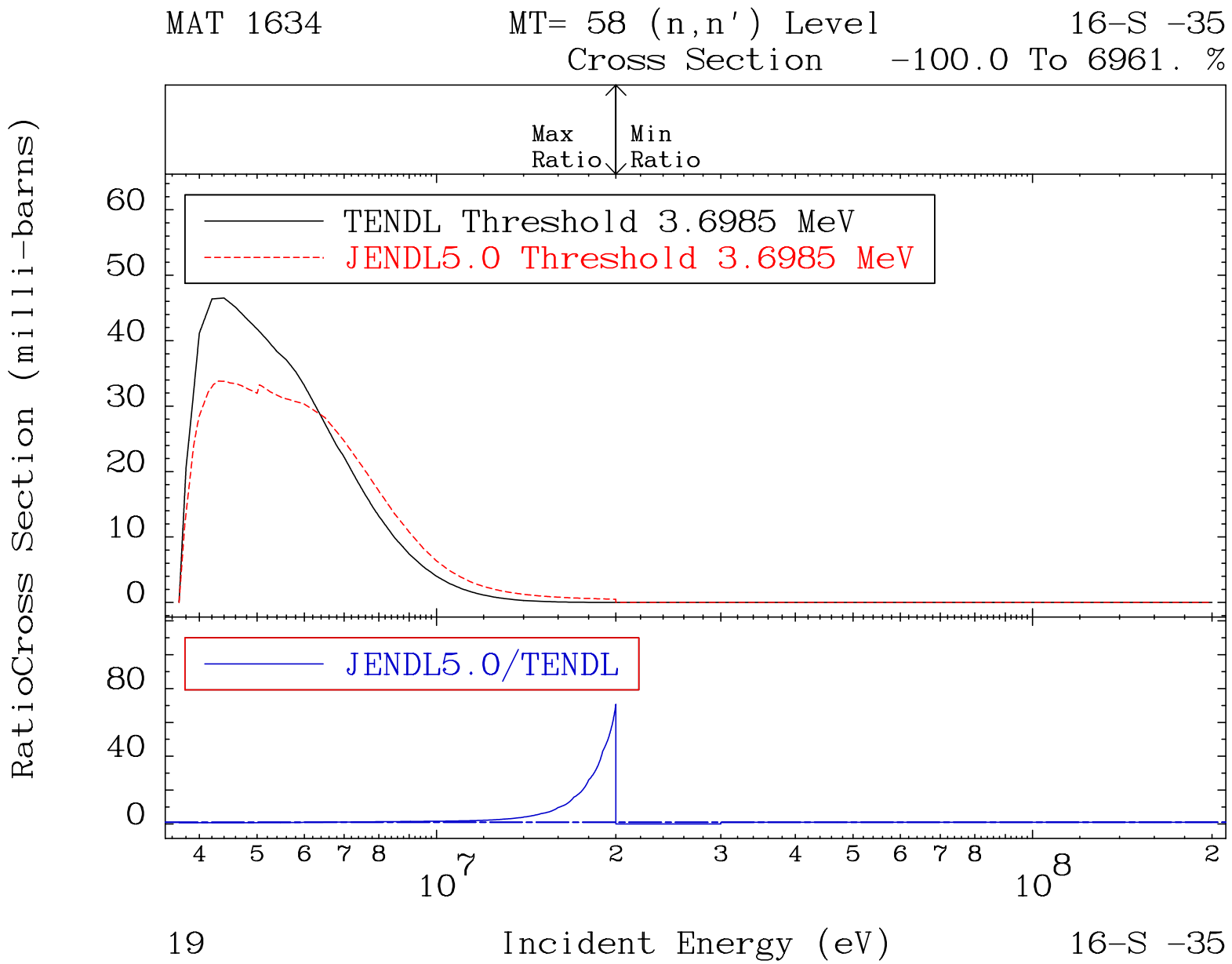

MAT 1634
MT= 53 (n,n') Level
16-S -35
Cross Section -100.0 To 8098. %
Max Ratio
Min Ratio
TENDL Threshold 2.4155 MeV
JENDL5.0 Threshold 2.4155 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
150
100
50
0
120
80
40
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
16-S -35

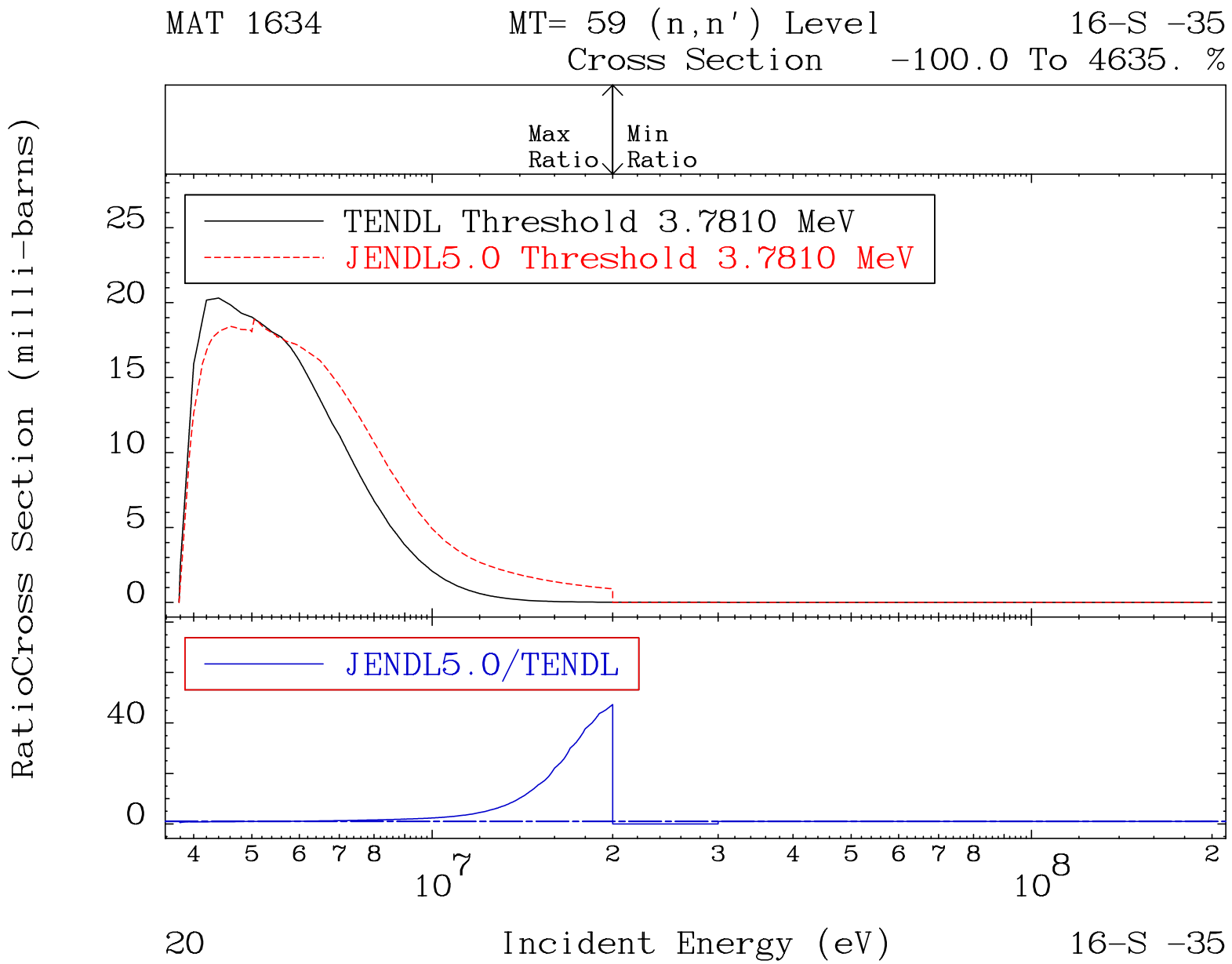

MAT 1634
MT= 54 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 2.7954 MeV
JENDL5.0 Threshold 2.7954 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
16-S -35

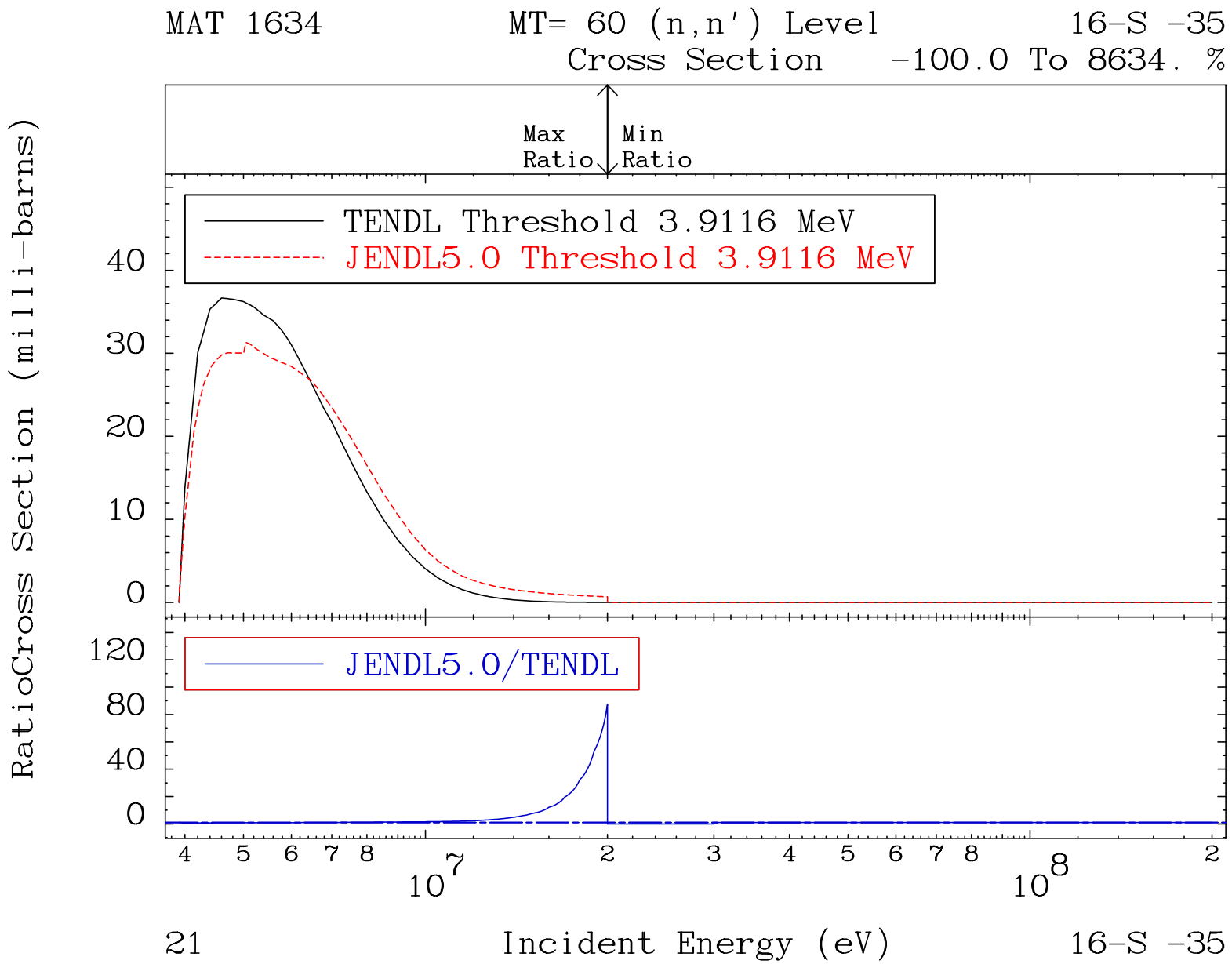

MAT 1634
MT= 55 (n,n') Level
16-S -35
Cross Section -100.0 To 2.372 %
Max Ratio
Min Ratio
TENDL Threshold 3.0234 MeV
JENDL5.0 Threshold 3.0234 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
16-S -35

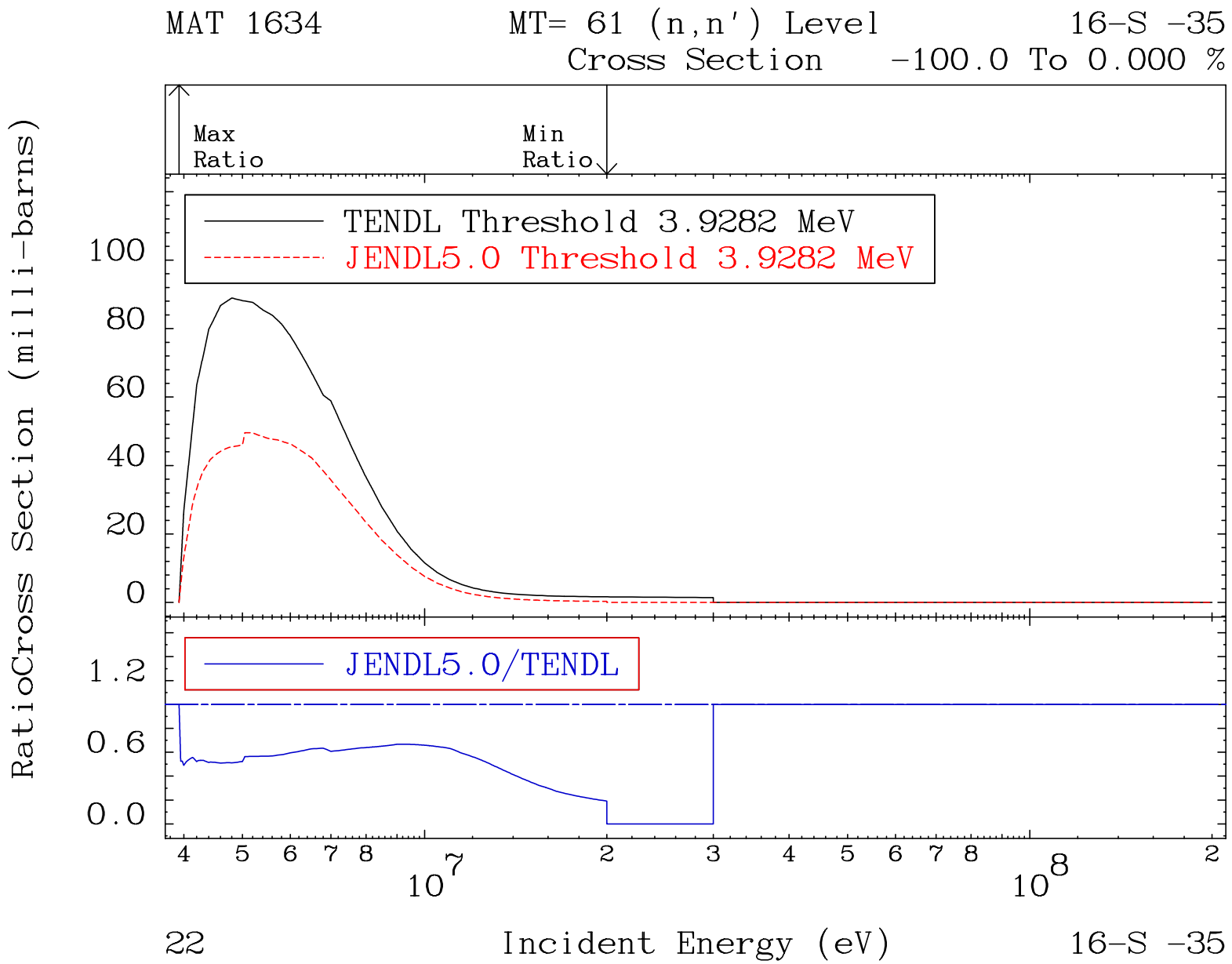

MAT 1634
MT= 56 (n,n') Level
16-S -35
Cross Section -100.0 To 3901. %
Max Ratio
Min Ratio
TENDL Threshold 3.5198 MeV
JENDL5.0 Threshold 3.5198 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
60
40
20
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
16-S -35

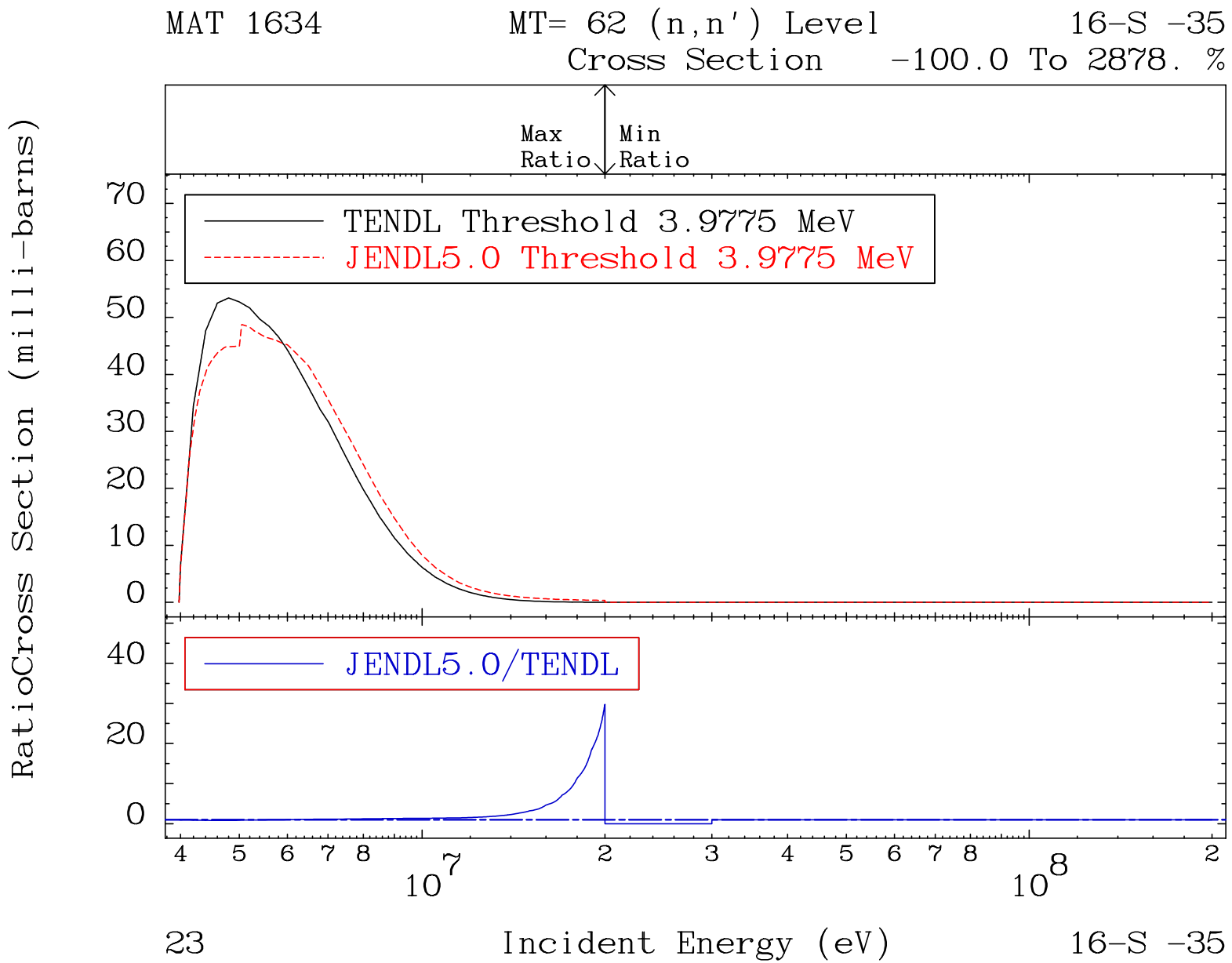

MAT 1634
MT= 57 (n,n') Level
16-S -35
Cross Section -100.0 To 1754. %
Max Ratio
Min Ratio
TENDL Threshold 3.6607 MeV
JENDL5.0 Threshold 3.6607 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
20
10
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
16-S -35

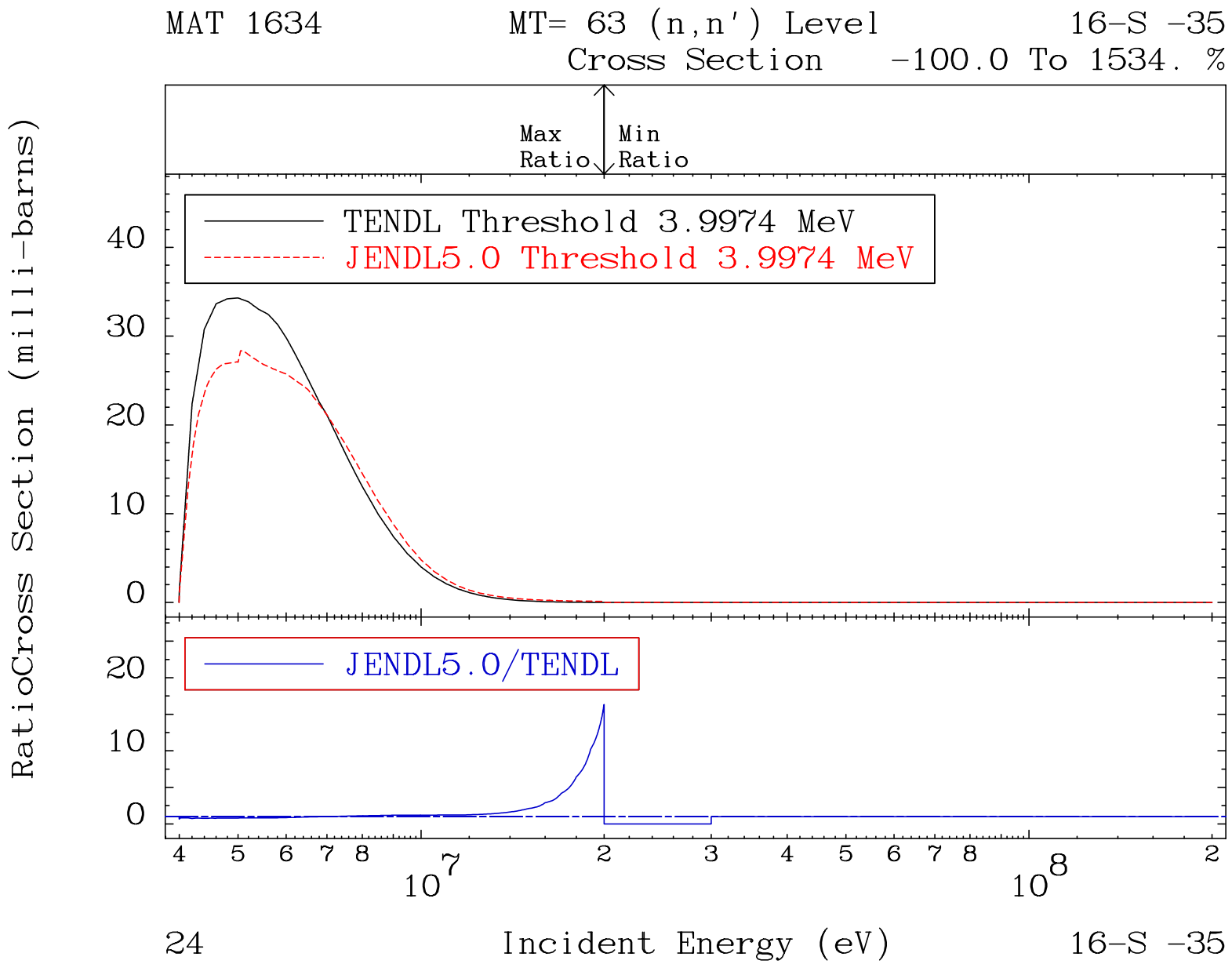

MAT 1634
MT= 58 (n,n') Level
16-S -35
Cross Section -100.0 To 6961. %
Max Ratio
Min Ratio
TENDL Threshold 3.6985 MeV
JENDL5.0 Threshold 3.6985 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
16-S -35

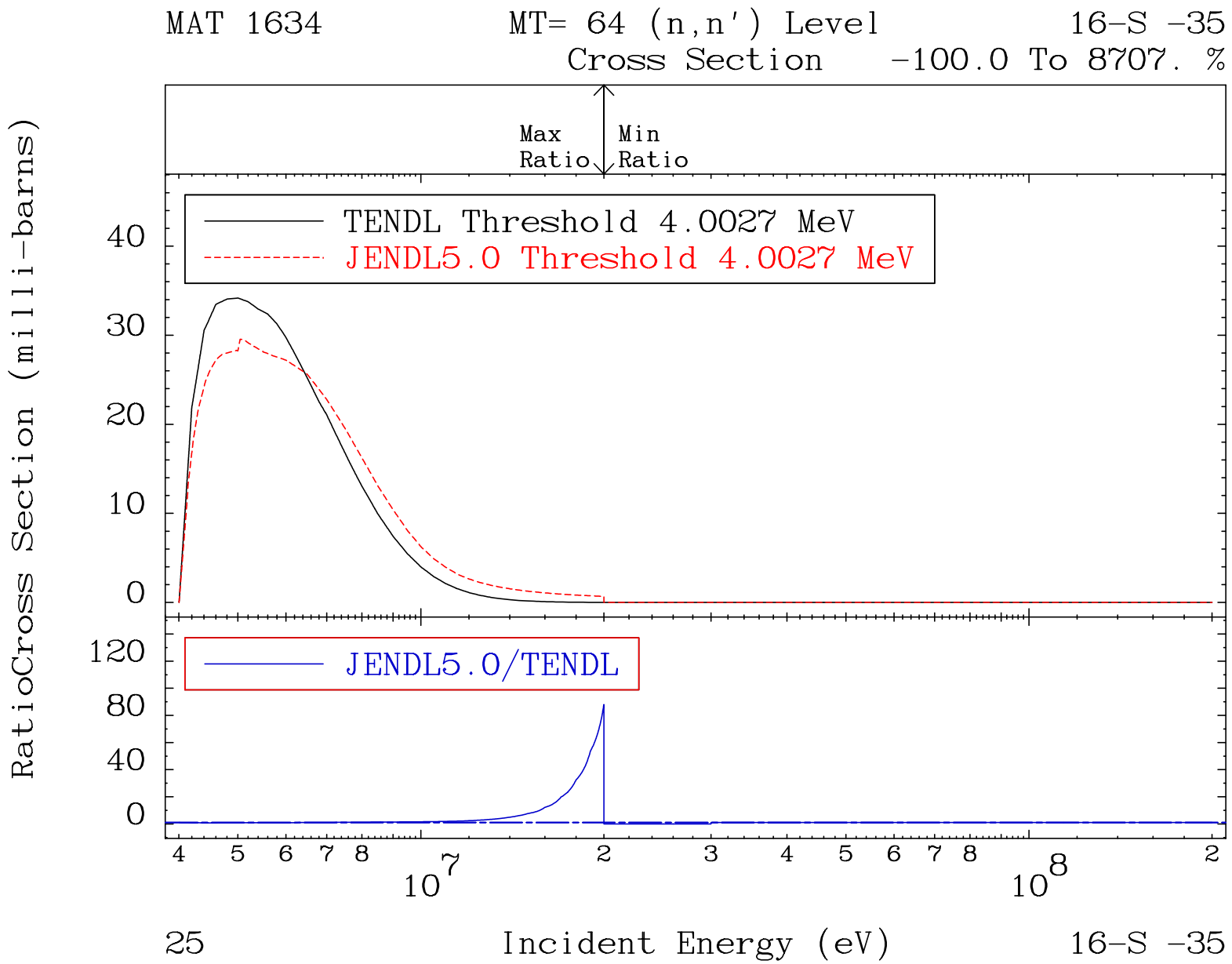

MAT 1634
MT= 59 (n,n') Level
16-S -35
Cross Section -100.0 To 4635. %
Max Ratio
Min Ratio
TENDL Threshold 3.7810 MeV
JENDL5.0 Threshold 3.7810 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
40
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
16-S -35

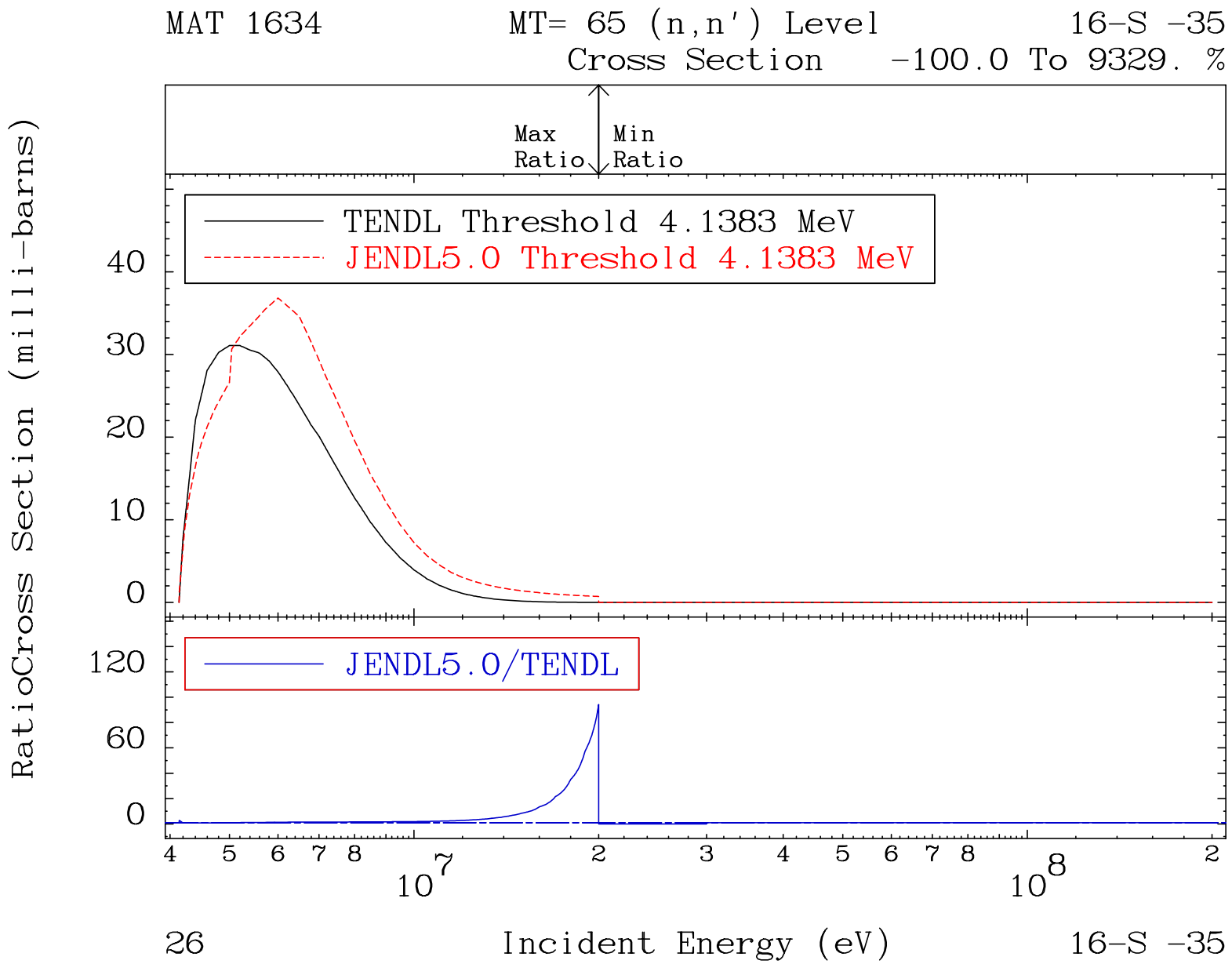

MAT 1634
MT= 60 (n,n') Level
16-S -35
Cross Section -100.0 To 8634. %
Max Ratio
Min Ratio
TENDL Threshold 3.9116 MeV
JENDL5.0 Threshold 3.9116 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
120
80
40
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
16-S -35

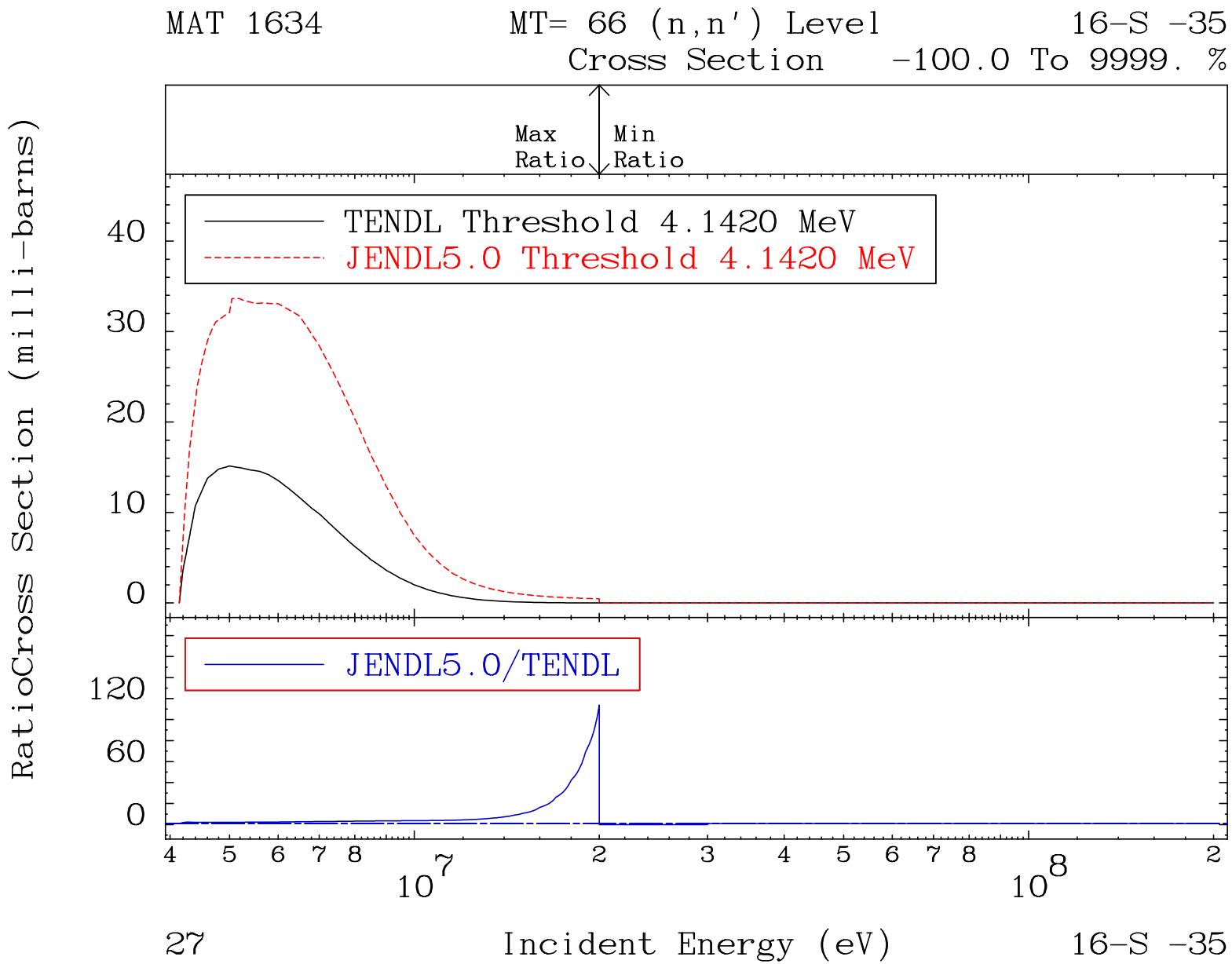

MAT 1634
MT= 61 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 3.9282 MeV
JENDL5.0 Threshold 3.9282 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
16-S -35

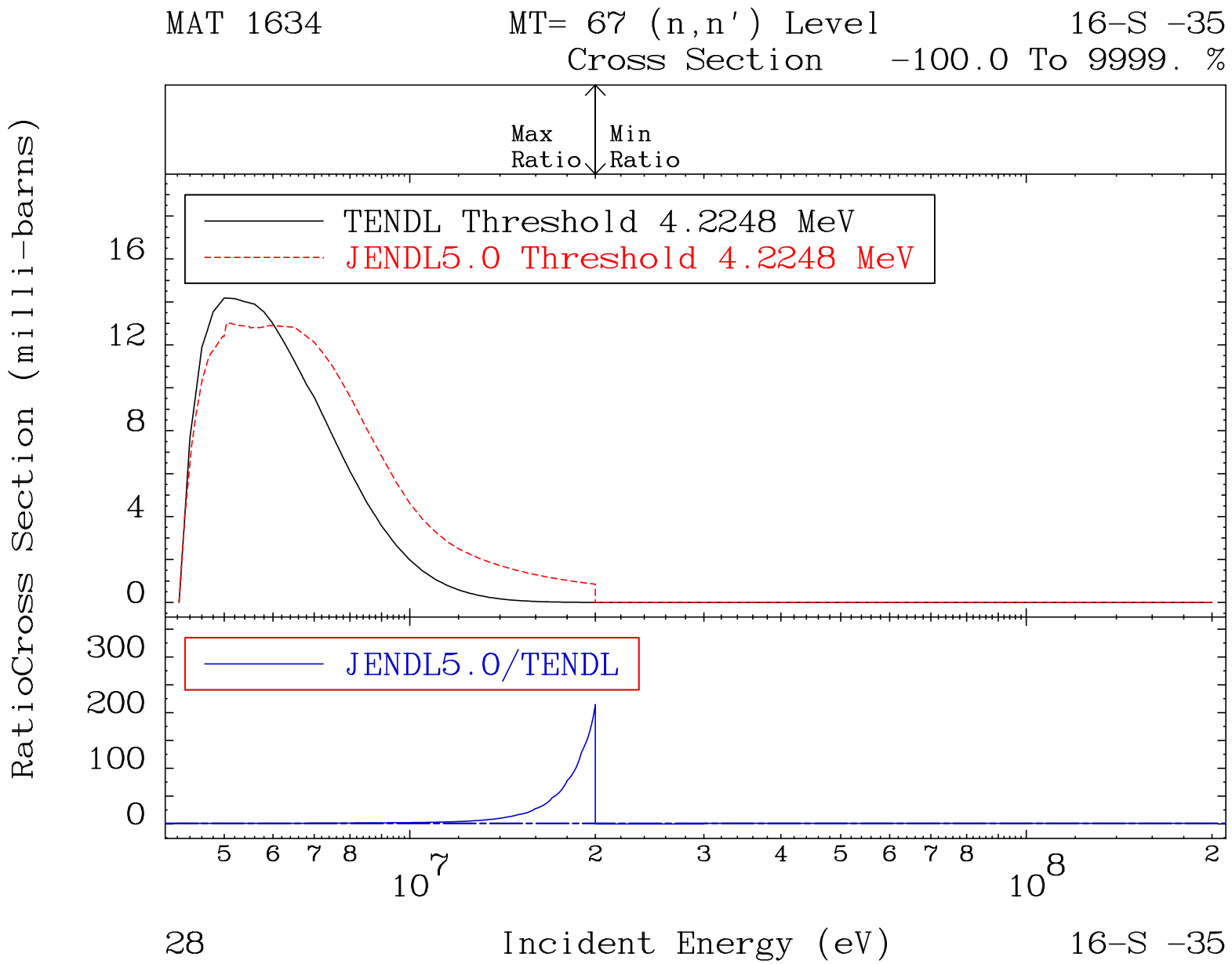

MAT 1634
MT= 62 (n,n') Level
16-S -35
Cross Section -100.0 To 2878. %
Max Ratio
Min Ratio
TENDL Threshold 3.9775 MeV
JENDL5.0 Threshold 3.9775 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
40
20
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
16-S -35

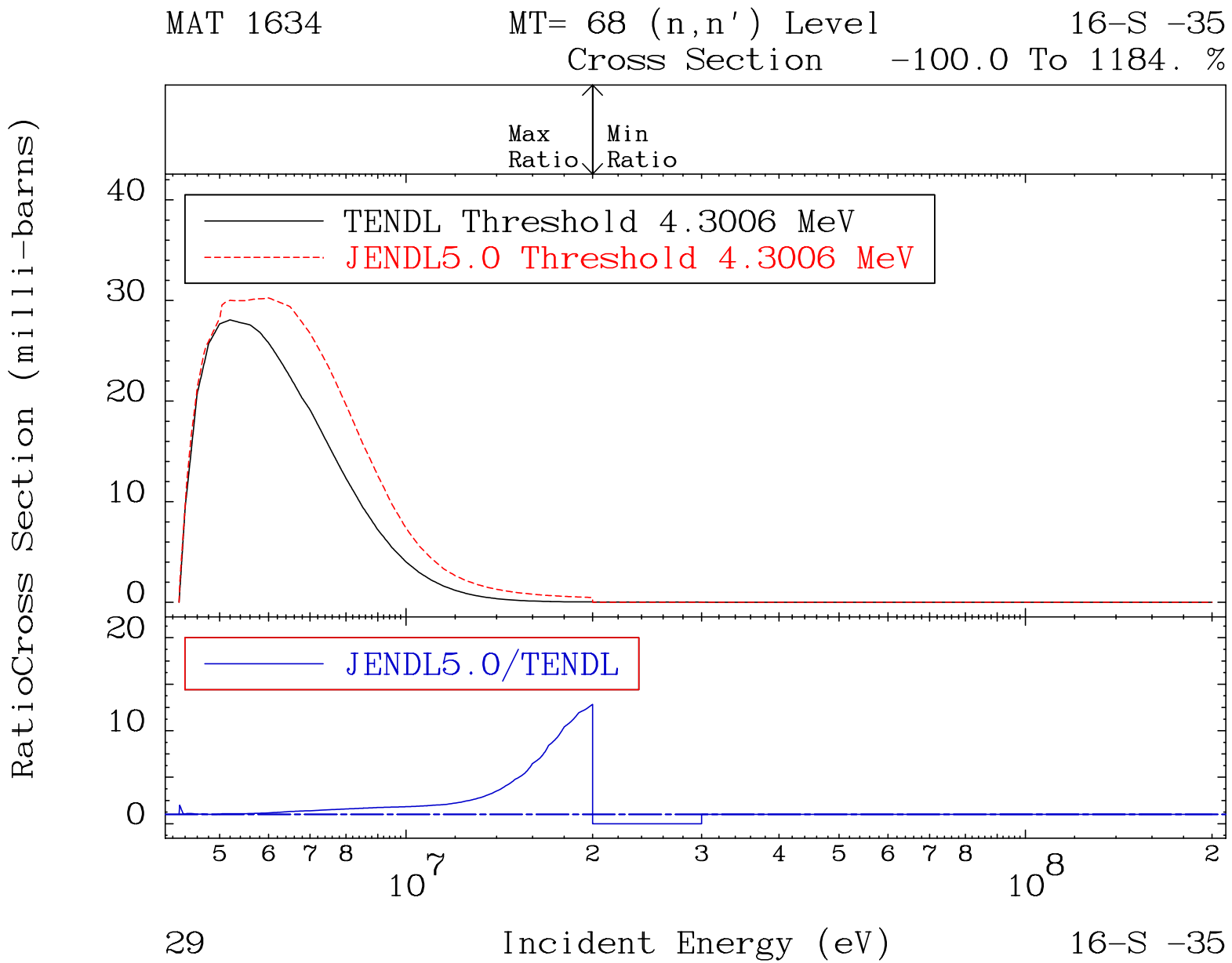

MAT 1634
MT= 63 (n,n') Level
16-S -35
Cross Section -100.0 To 1534. %
Max Ratio
Min Ratio
TENDL Threshold 3.9974 MeV
JENDL5.0 Threshold 3.9974 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
20
10
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
16-S -35

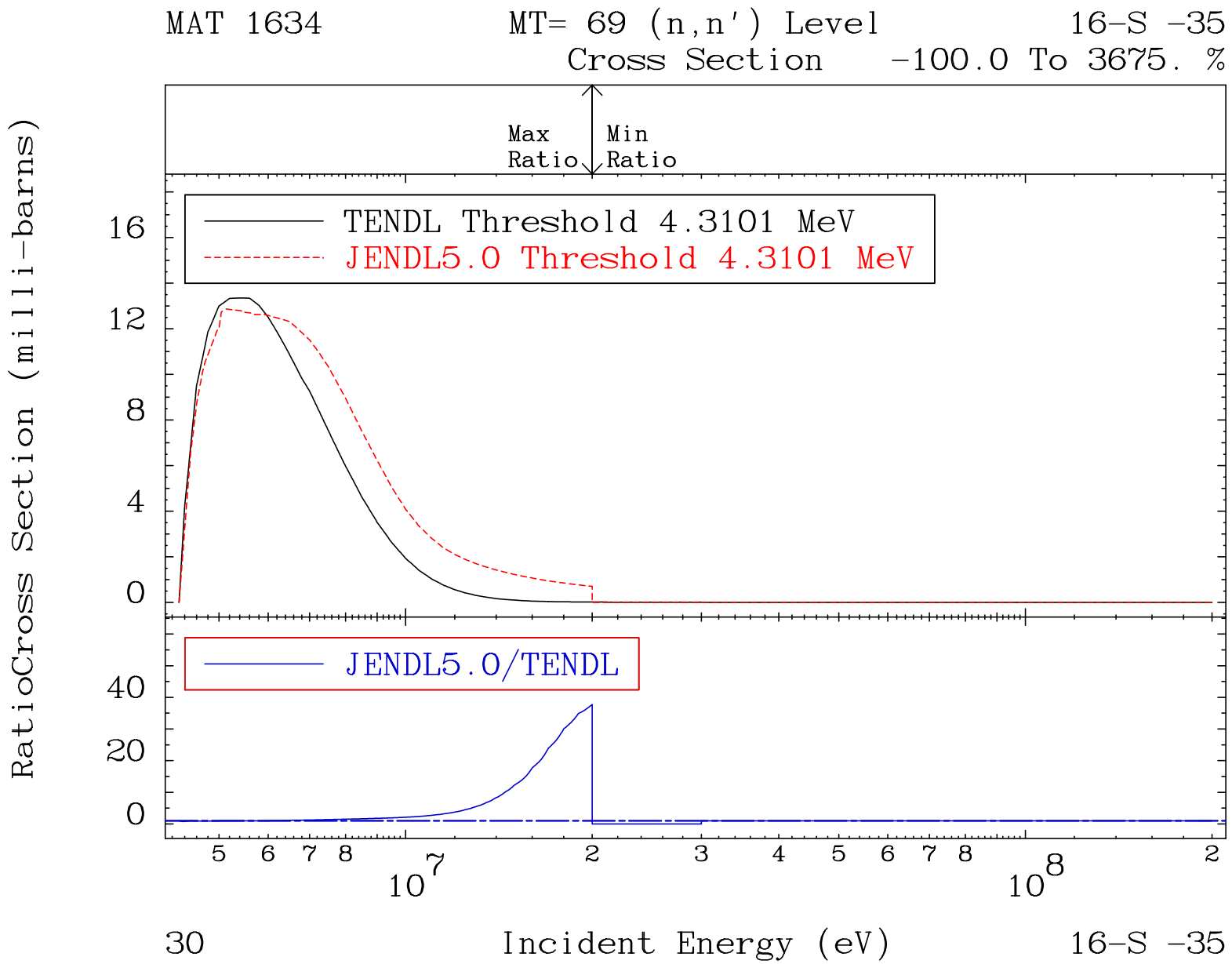

MAT 1634
MT= 64 (n,n') Level
16-S -35
Cross Section -100.0 To 8707. %
Max Ratio
Min Ratio
TENDL Threshold 4.0027 MeV
JENDL5.0 Threshold 4.0027 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
16-S -35

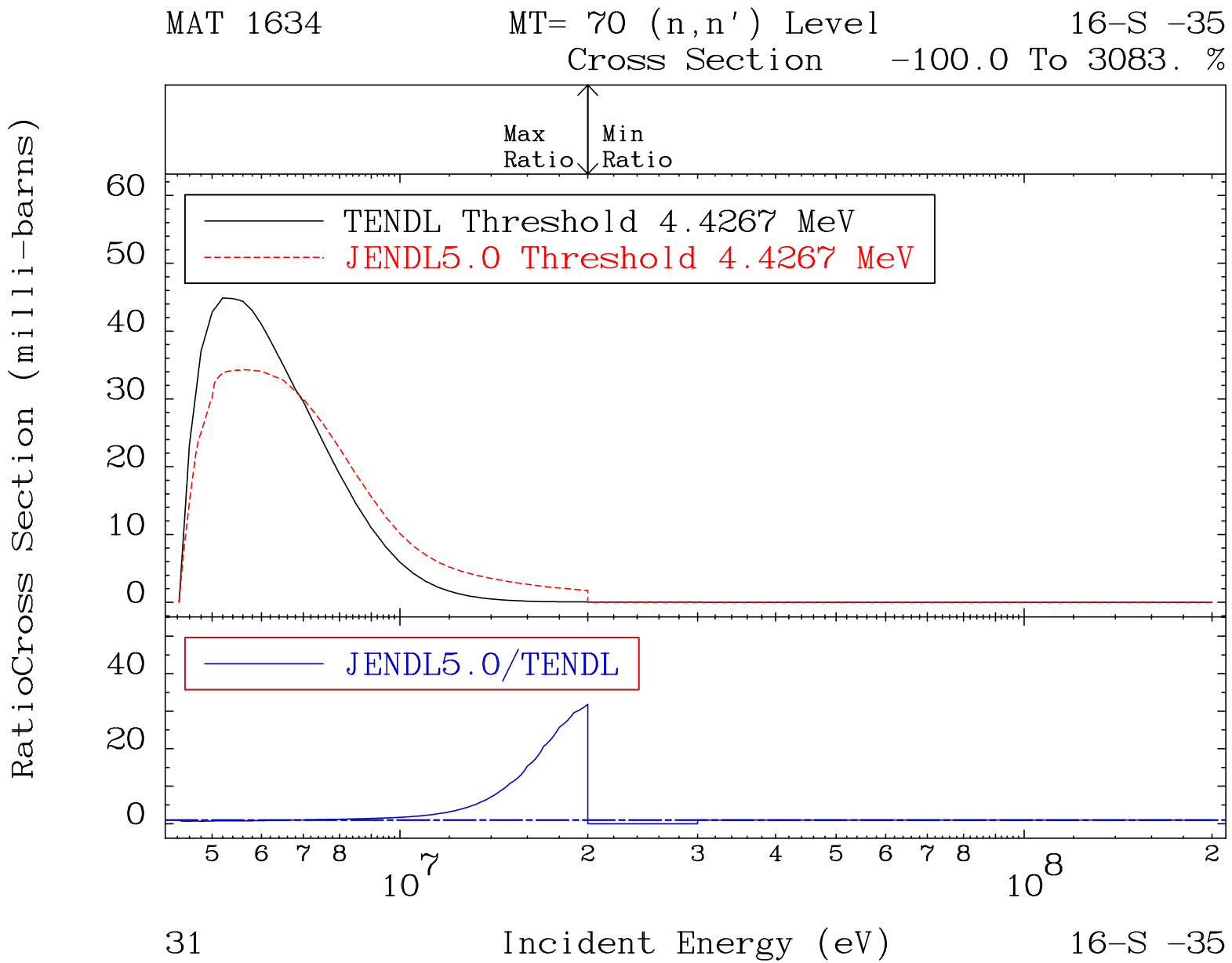

MAT 1634
MT= 65 (n,n') Level
16-S -35
Cross Section -100.0 To 9329. %
Max Ratio
Min Ratio
TENDL Threshold 4.1383 MeV
JENDL5.0 Threshold 4.1383 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
120
60
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
26
Incident Energy (eV)
16-S -35

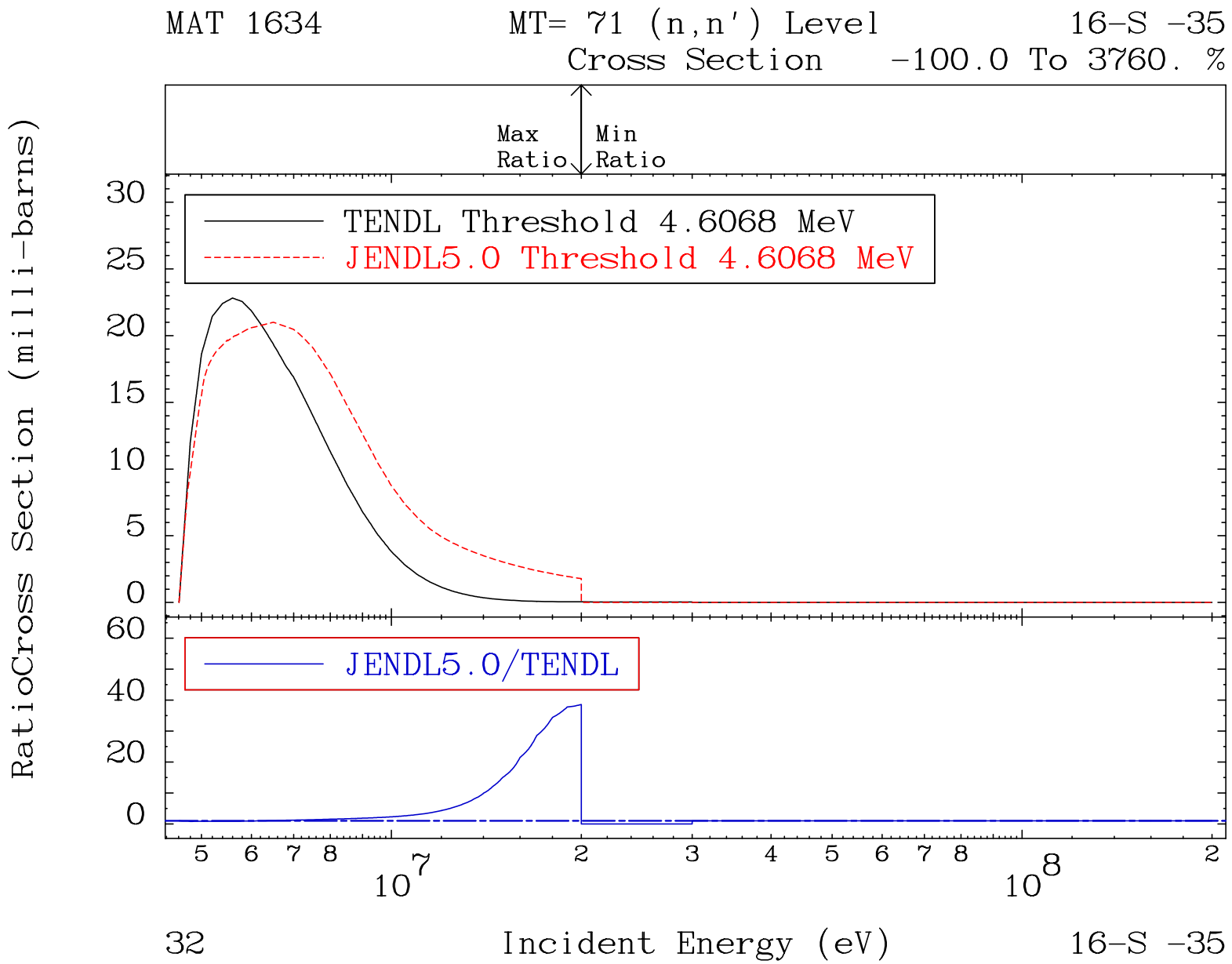

MAT 1634
MT= 66 (n,n') Level
16-S -35
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.1420 MeV
JENDL5.0 Threshold 4.1420 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
120
60
0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
16-S -35

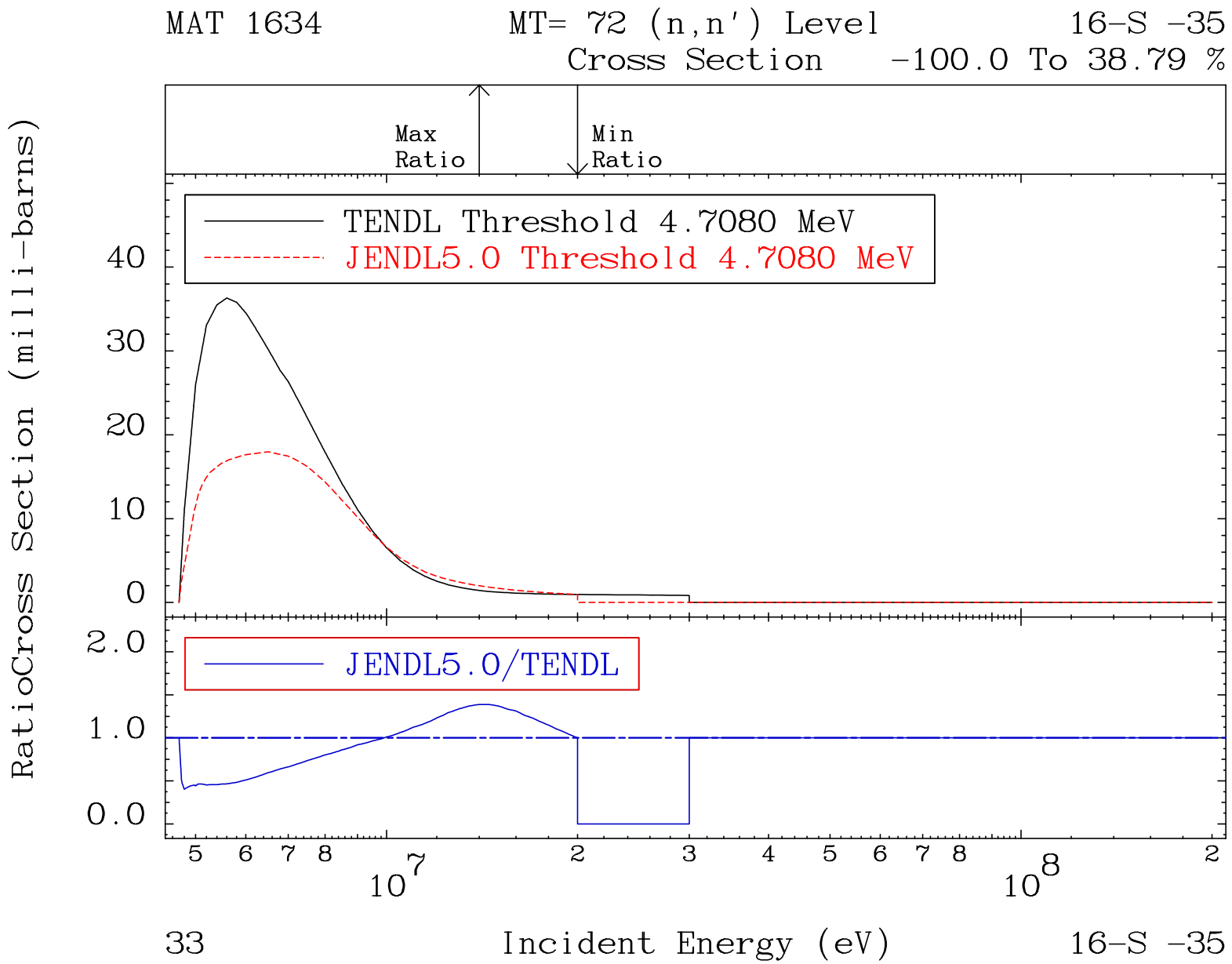

MAT 1634
MT= 67 (n,n') Level
16-S -35
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 4.2248 MeV
JENDL5.0 Threshold 4.2248 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
300
200
100
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
16-S -35

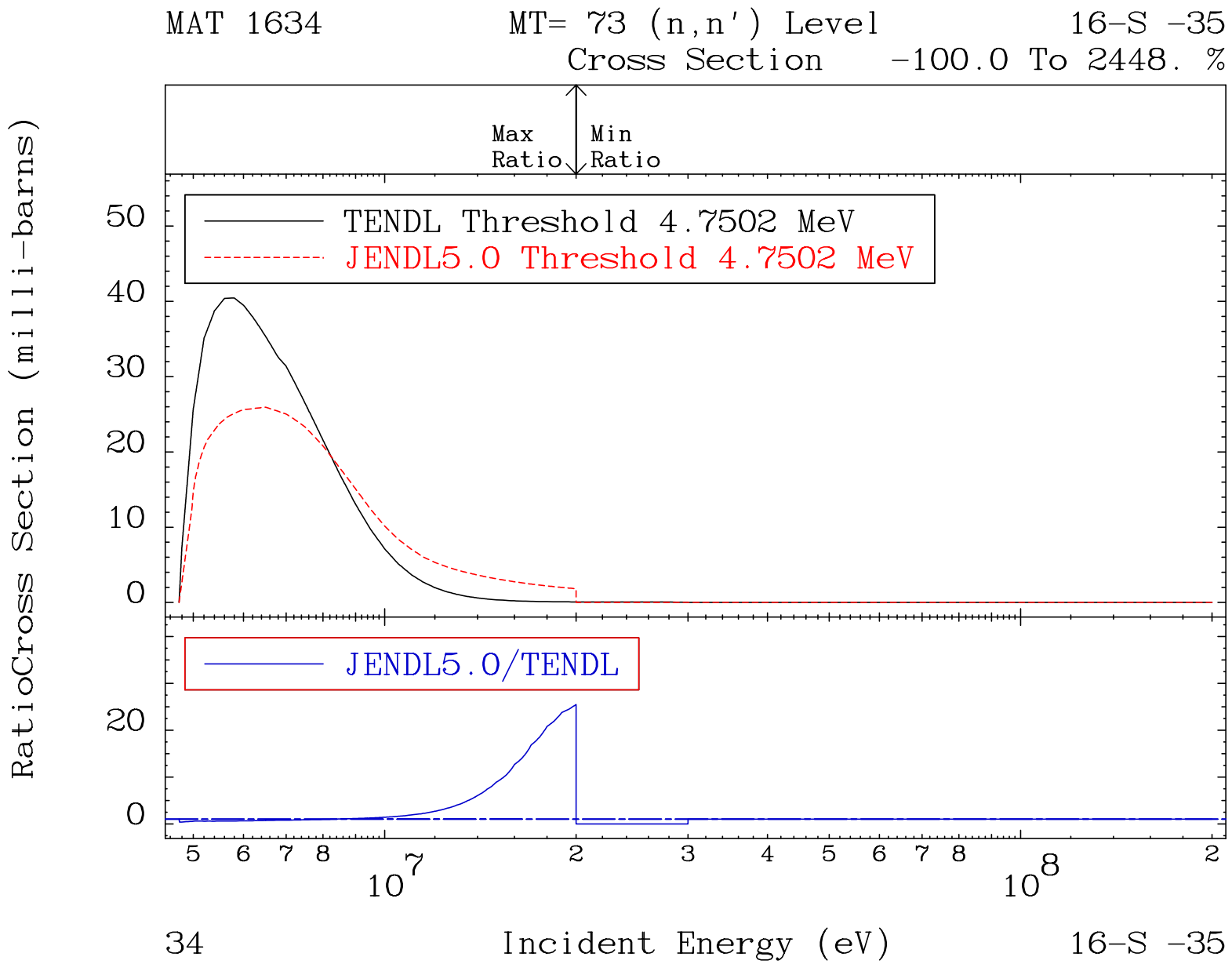

MAT 1634
MT= 68 (n,n') Level
16-S -35
Cross Section -100.0 To 1184. %
Max Ratio
Min Ratio
TENDL Threshold 4.3006 MeV
JENDL5.0 Threshold 4.3006 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
20
10
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
29
Incident Energy (eV)
16-S -35

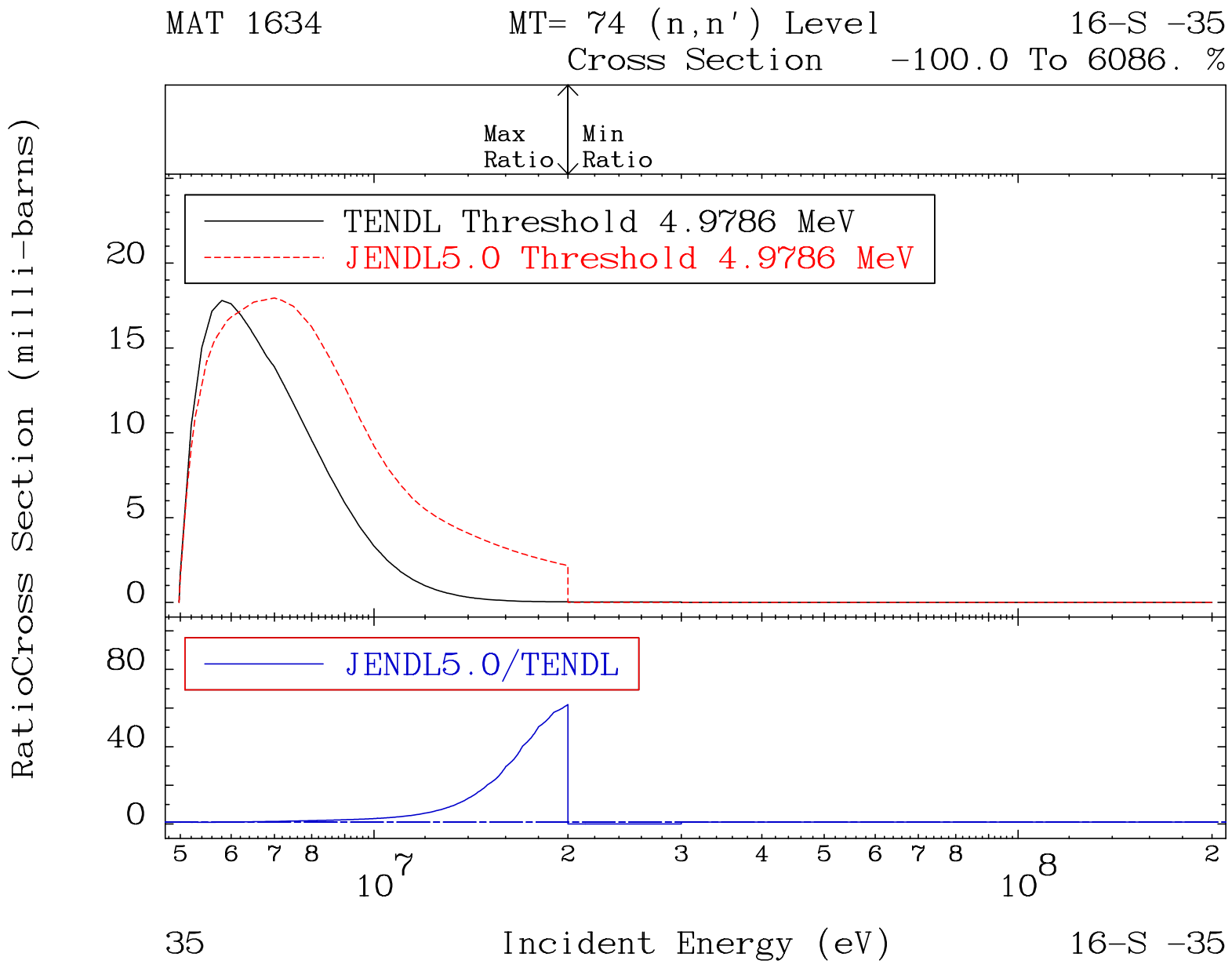

MAT 1634
MT= 69 (n,n') Level
16-S -35
Cross Section -100.0 To 3675. %
Max Ratio
Min Ratio
TENDL Threshold 4.3101 MeV
JENDL5.0 Threshold 4.3101 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
40
20
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
16-S -35

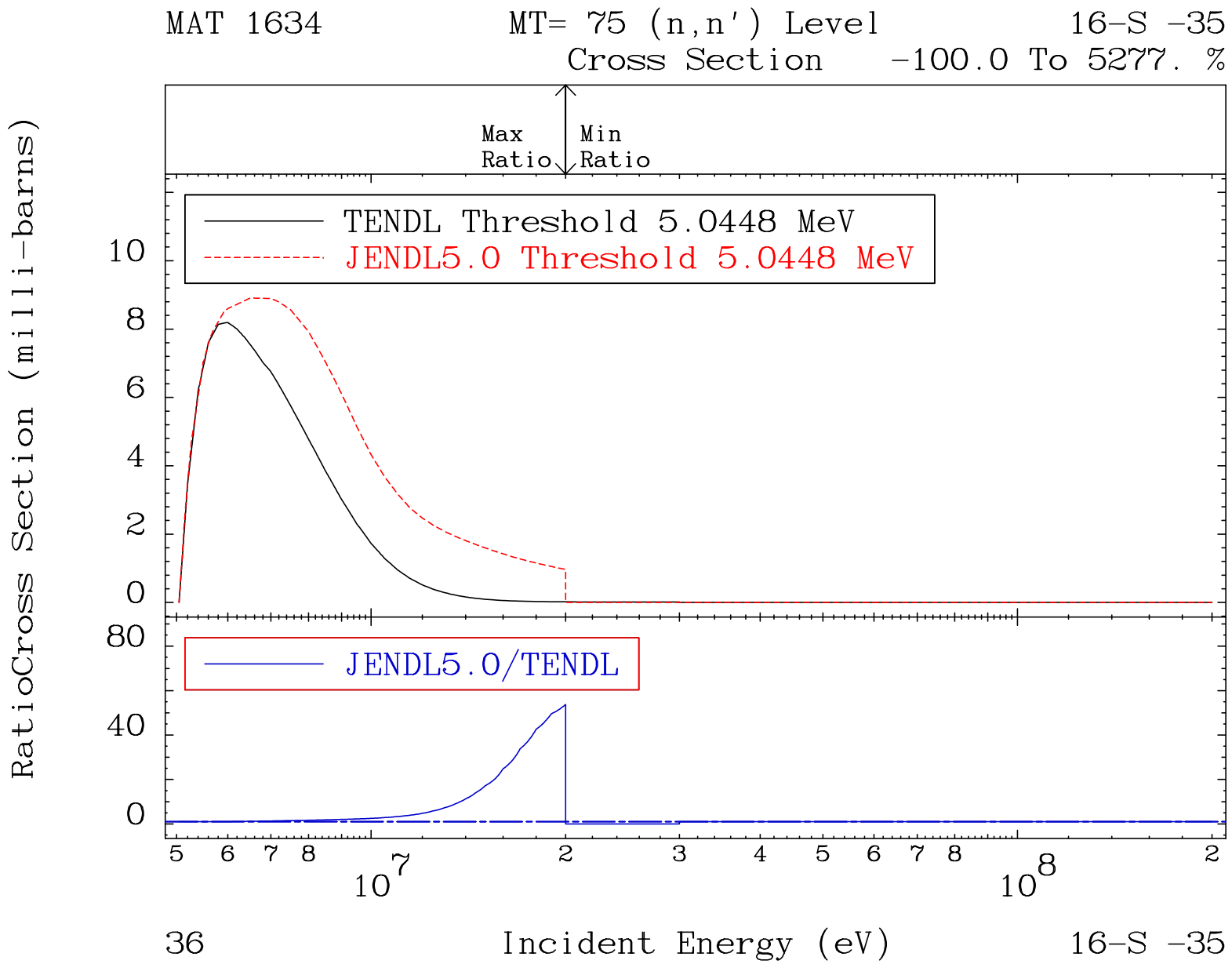

MAT 1634
MT= 70 (n,n') Level
16-S -35
Cross Section -100.0 To 3083. %
Max Ratio
Min Ratio
TENDL Threshold 4.4267 MeV
JENDL5.0 Threshold 4.4267 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
40
20
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
16-S -35

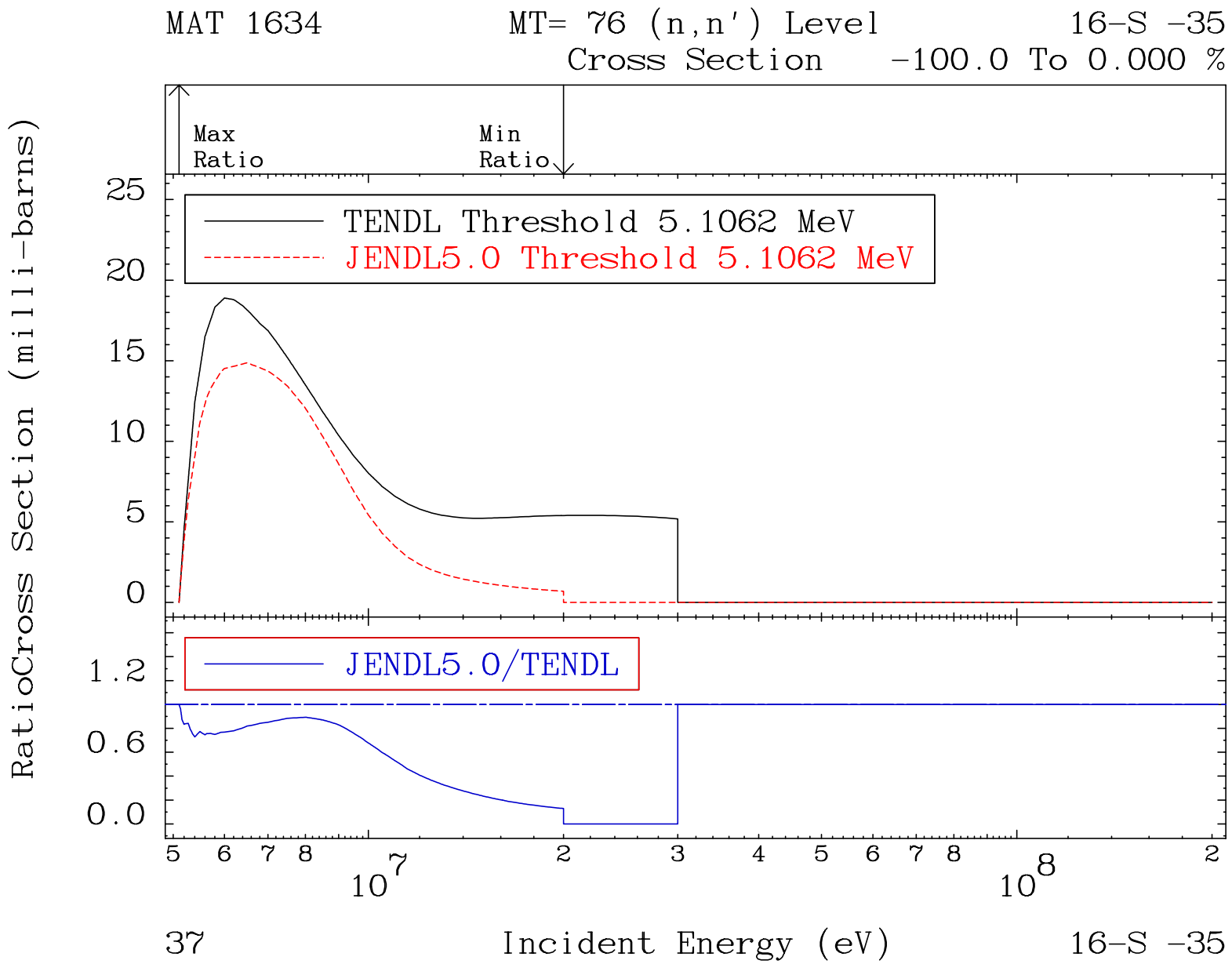

MAT 1634
MT= 71 (n,n') Level
16-S -35
Cross Section -100.0 To 3760. %
Max Ratio
Min Ratio
TENDL Threshold 4.6068 MeV
JENDL5.0 Threshold 4.6068 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
32
16-S -35

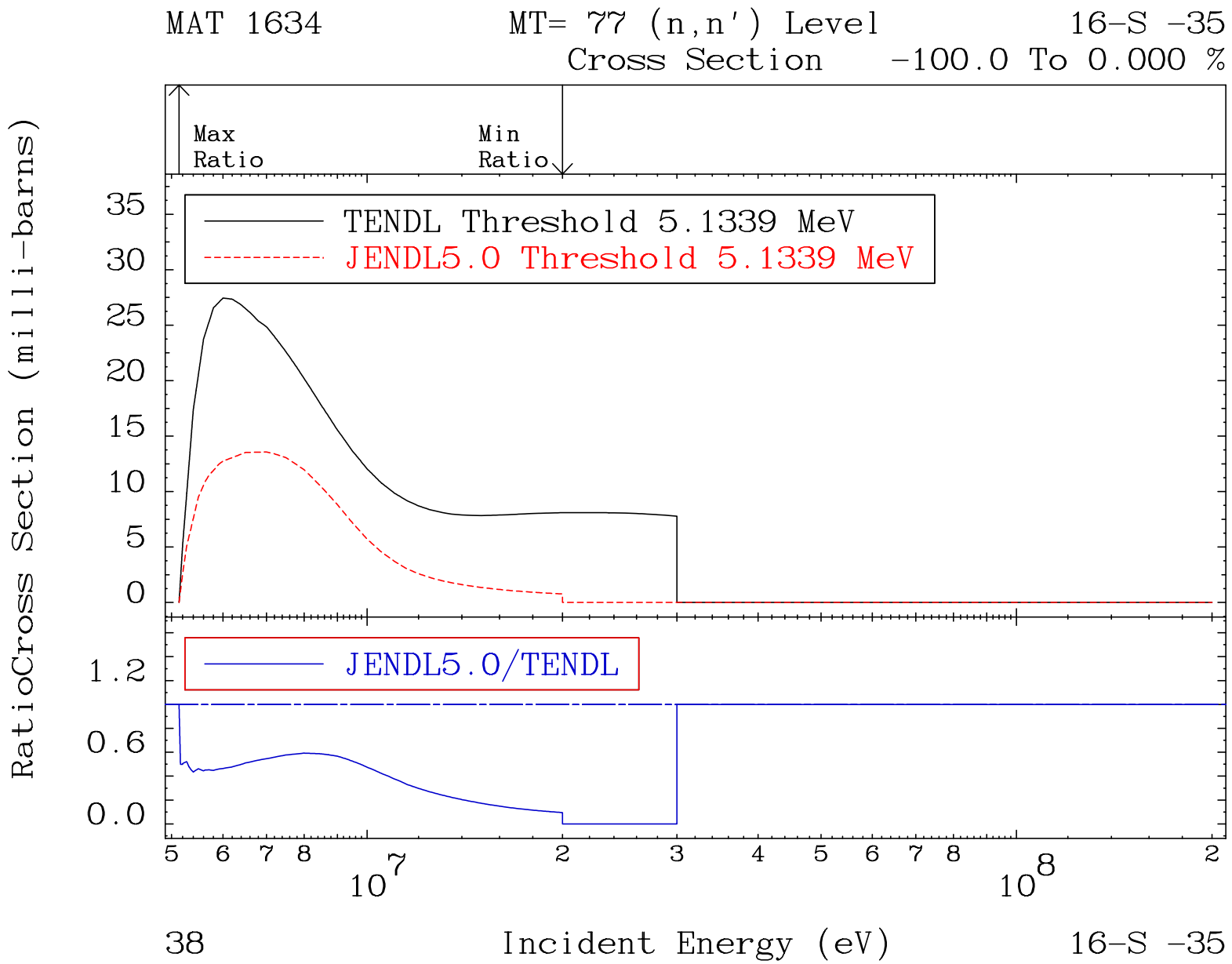

MAT 1634
MT= 72 (n,n') Level
16-S -35
Cross Section -100.0 To 38.79 %
Max Ratio
Min Ratio
TENDL Threshold 4.7080 MeV
JENDL5.0 Threshold 4.7080 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
16-S -35

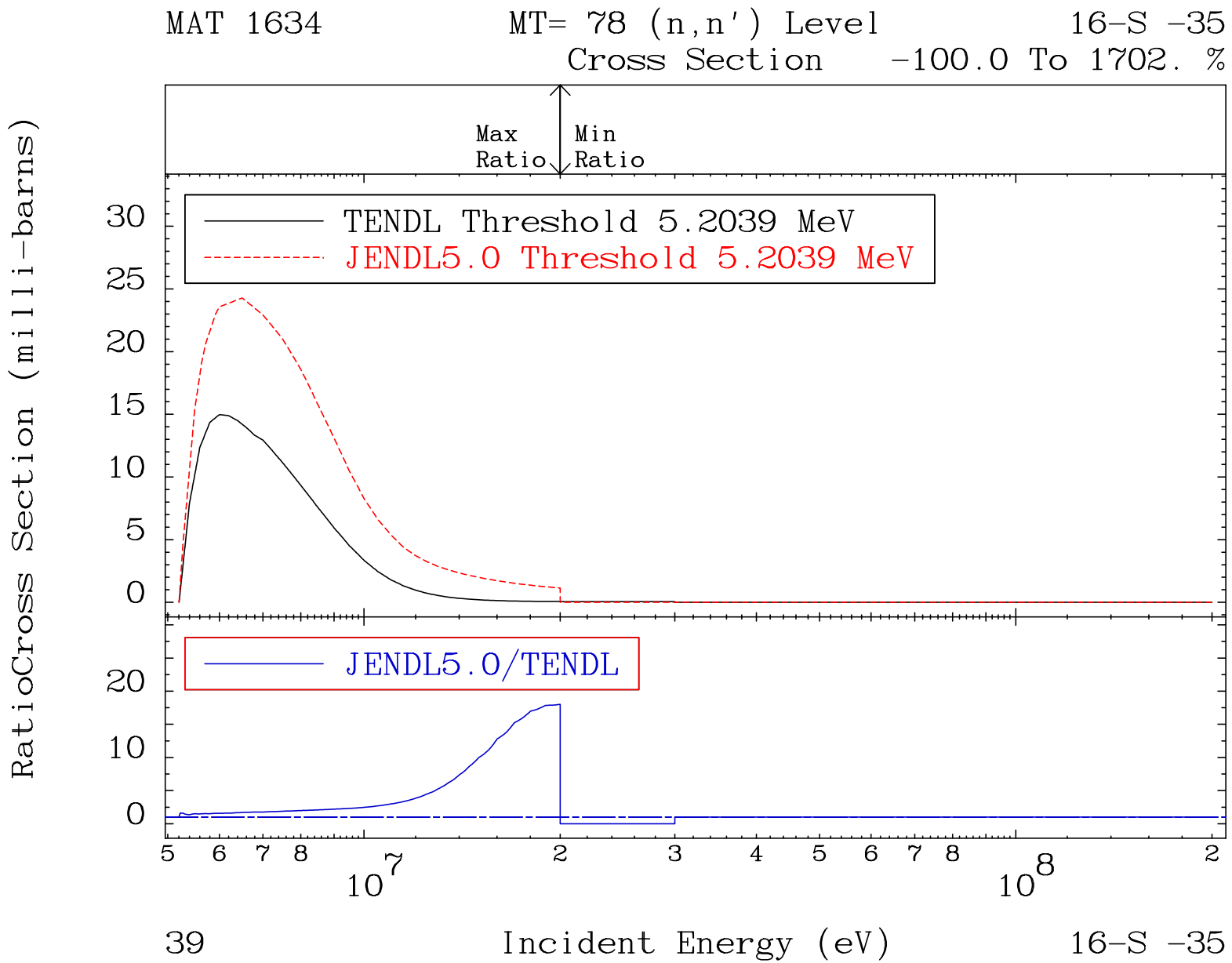

MAT 1634
MT= 73 (n,n') Level
16-S -35
Cross Section -100.0 To 2448. %
Max Ratio
Min Ratio
TENDL Threshold 4.7502 MeV
JENDL5.0 Threshold 4.7502 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
20
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
16-S -35

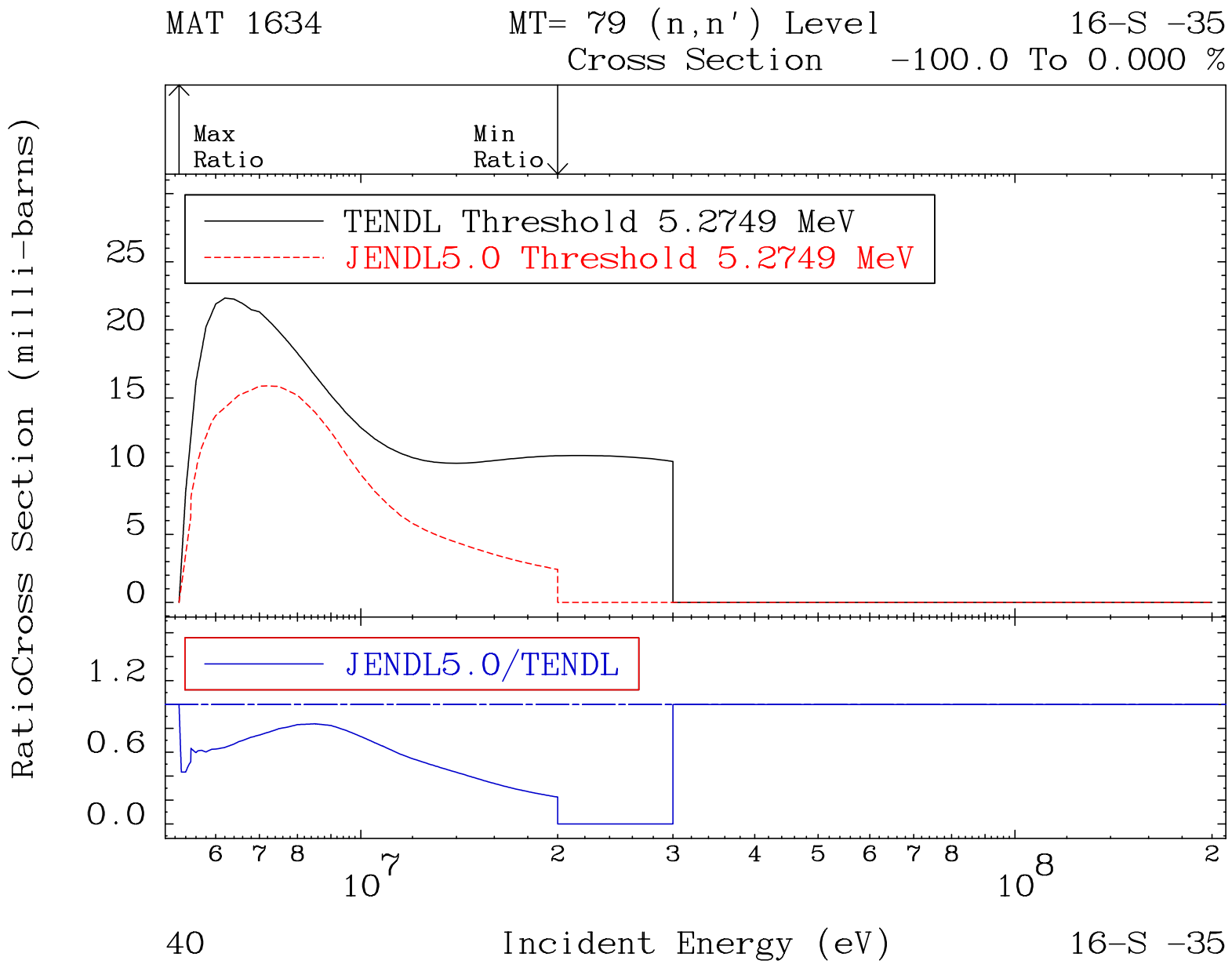

MAT 1634
MT= 74 (n,n') Level
16-S -35
Cross Section -100.0 To 6086. %
Max Ratio
Min Ratio
TENDL Threshold 4.9786 MeV
JENDL5.0 Threshold 4.9786 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
35
16-S -35

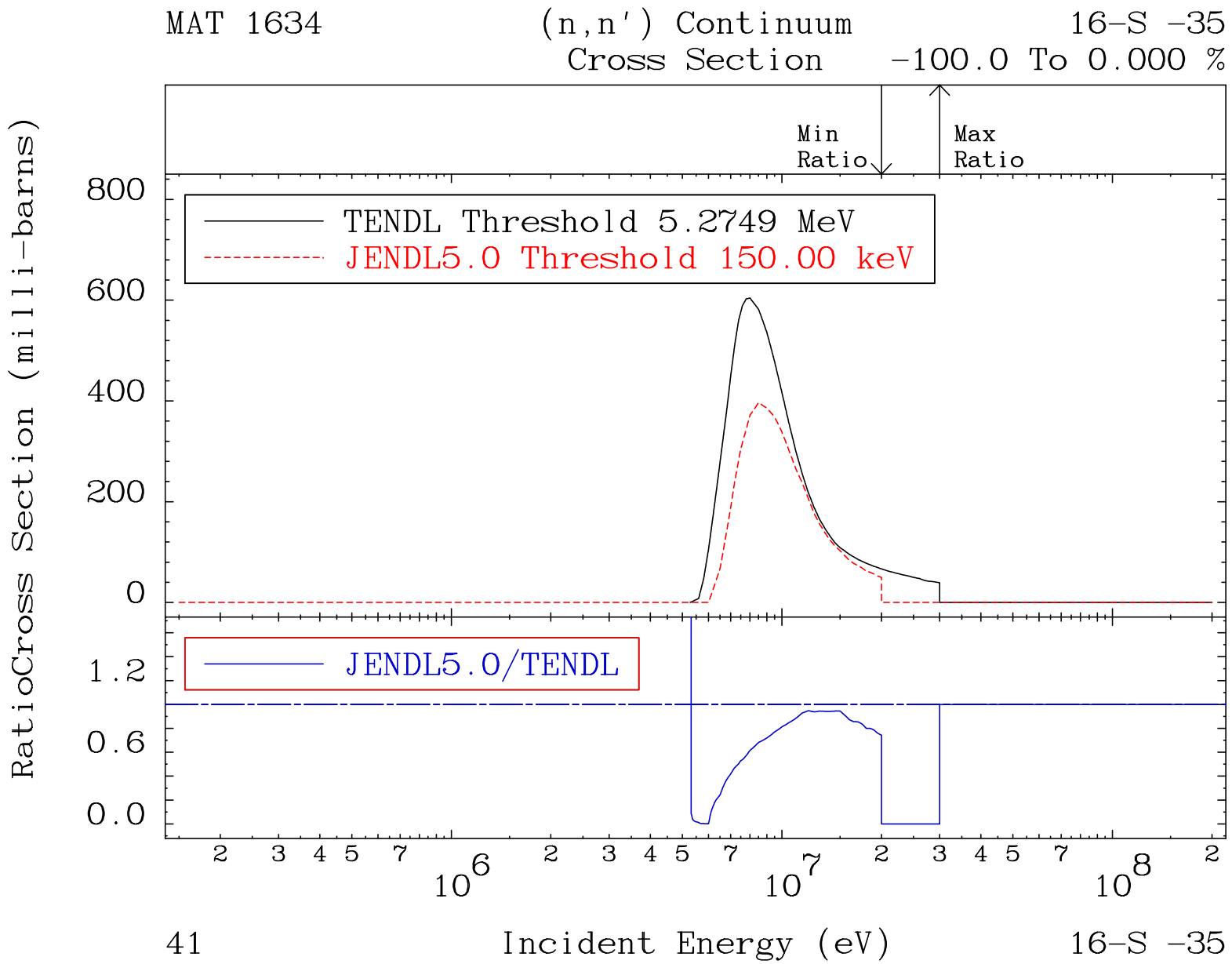

MAT 1634
MT= 75 (n,n') Level
16-S -35
Cross Section -100.0 To 5277. %
Max Ratio
Min Ratio
TENDL Threshold 5.0448 MeV
JENDL5.0 Threshold 5.0448 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
36
16-S -35

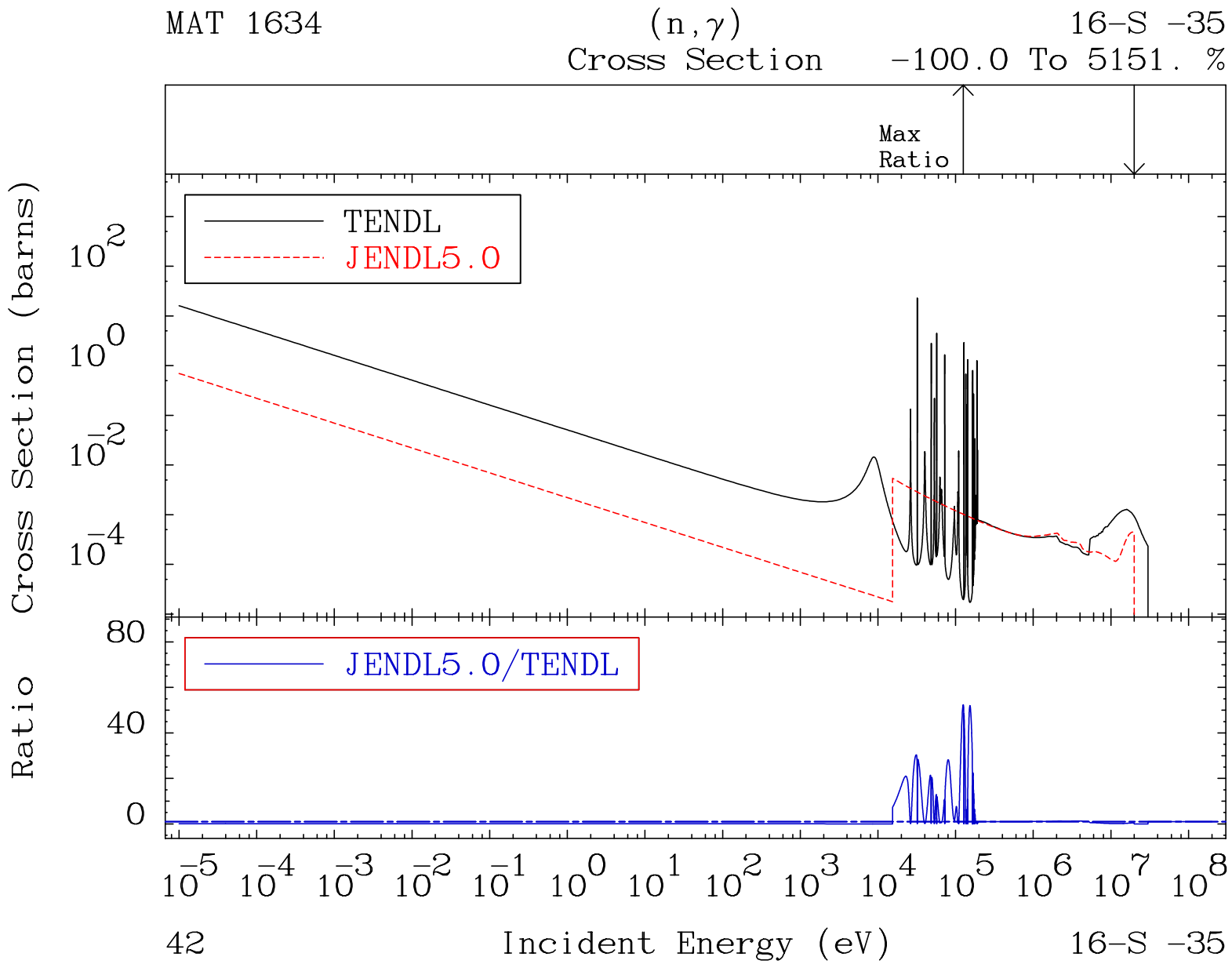

MAT 1634
MT= 76 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 5.1062 MeV
JENDL5.0 Threshold 5.1062 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
37
Incident Energy (eV)
16-S -35

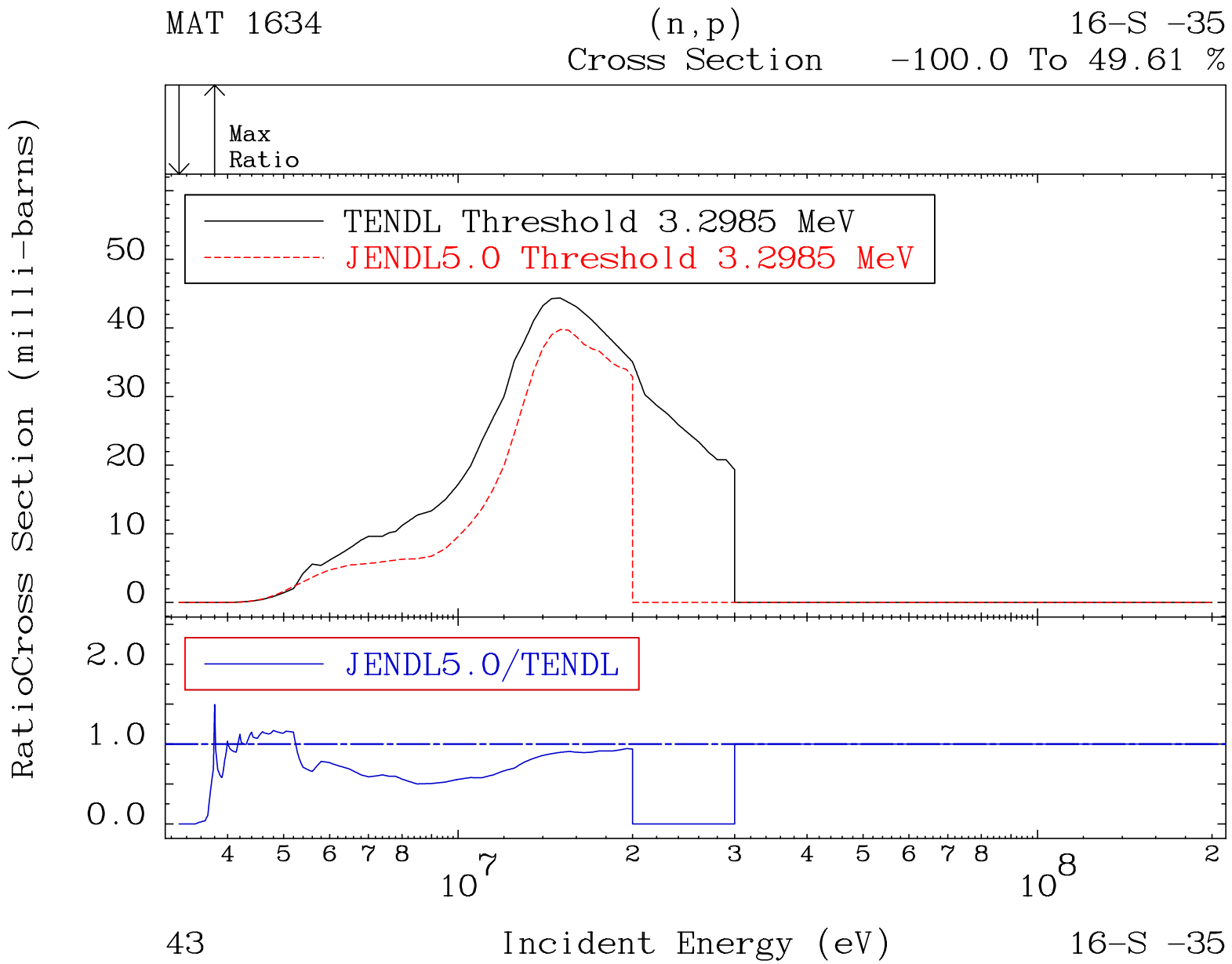

MAT 1634
MT= 77 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 5.1339 MeV
JENDL5.0 Threshold 5.1339 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
1.2
0.6
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
16-S -35

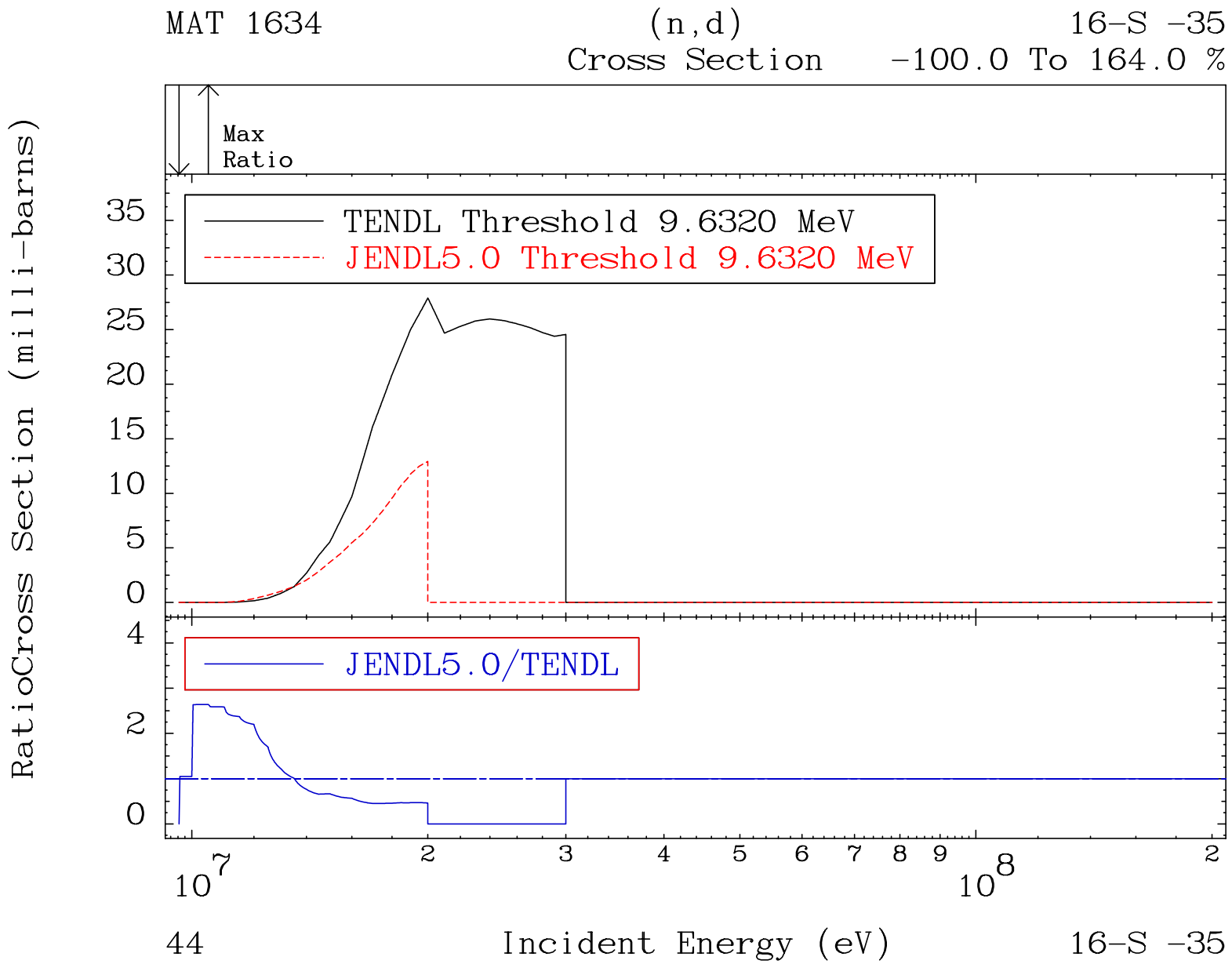

MAT 1634
MT= 78 (n,n') Level
16-S -35
Cross Section -100.0 To 1702. %
Max Ratio
Min Ratio
TENDL Threshold 5.2039 MeV
JENDL5.0 Threshold 5.2039 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
39
16-S -35

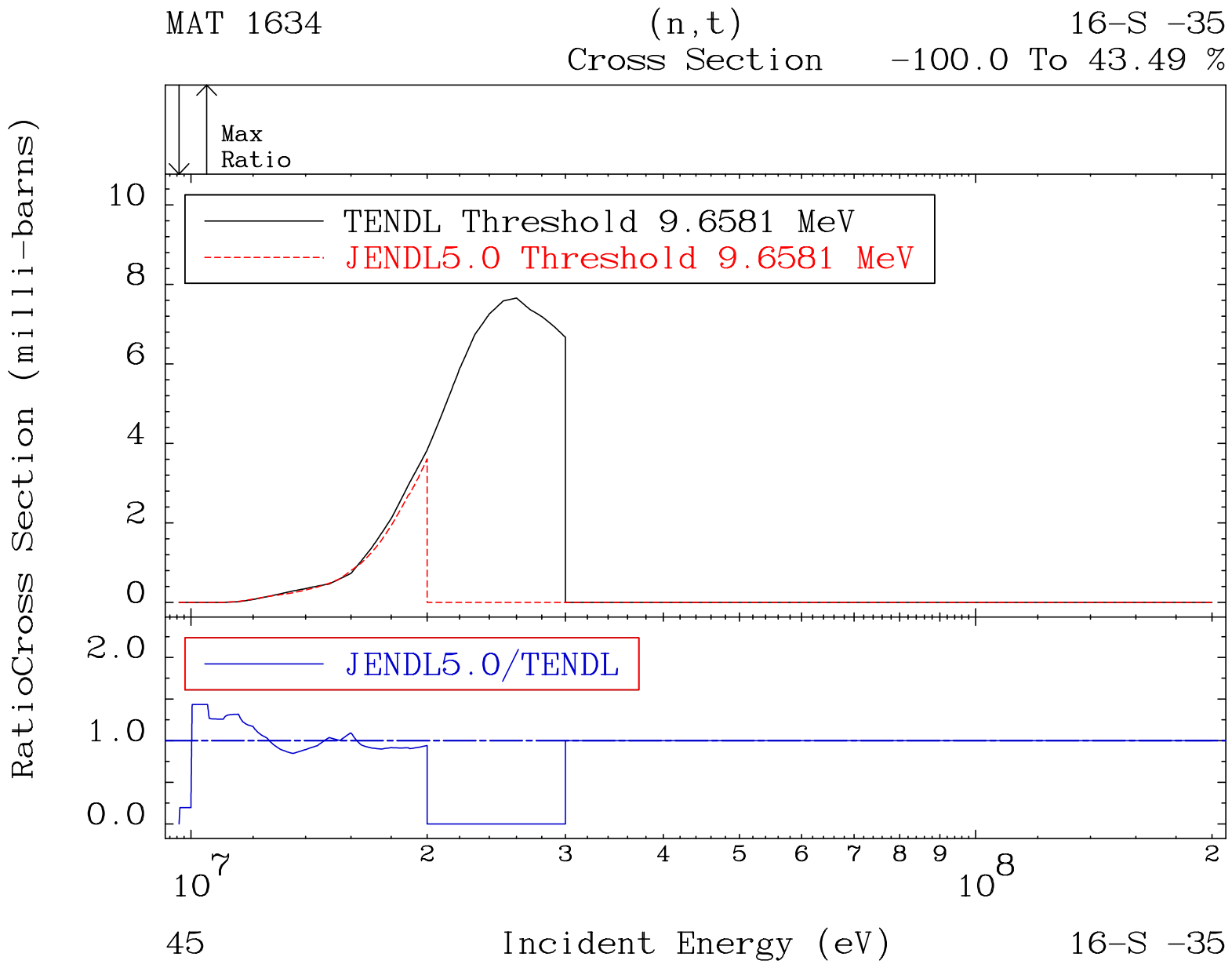

MAT 1634
MT= 79 (n,n') Level
16-S -35
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 5.2749 MeV
JENDL5.0 Threshold 5.2749 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
40
Incident Energy (eV)
16-S -35

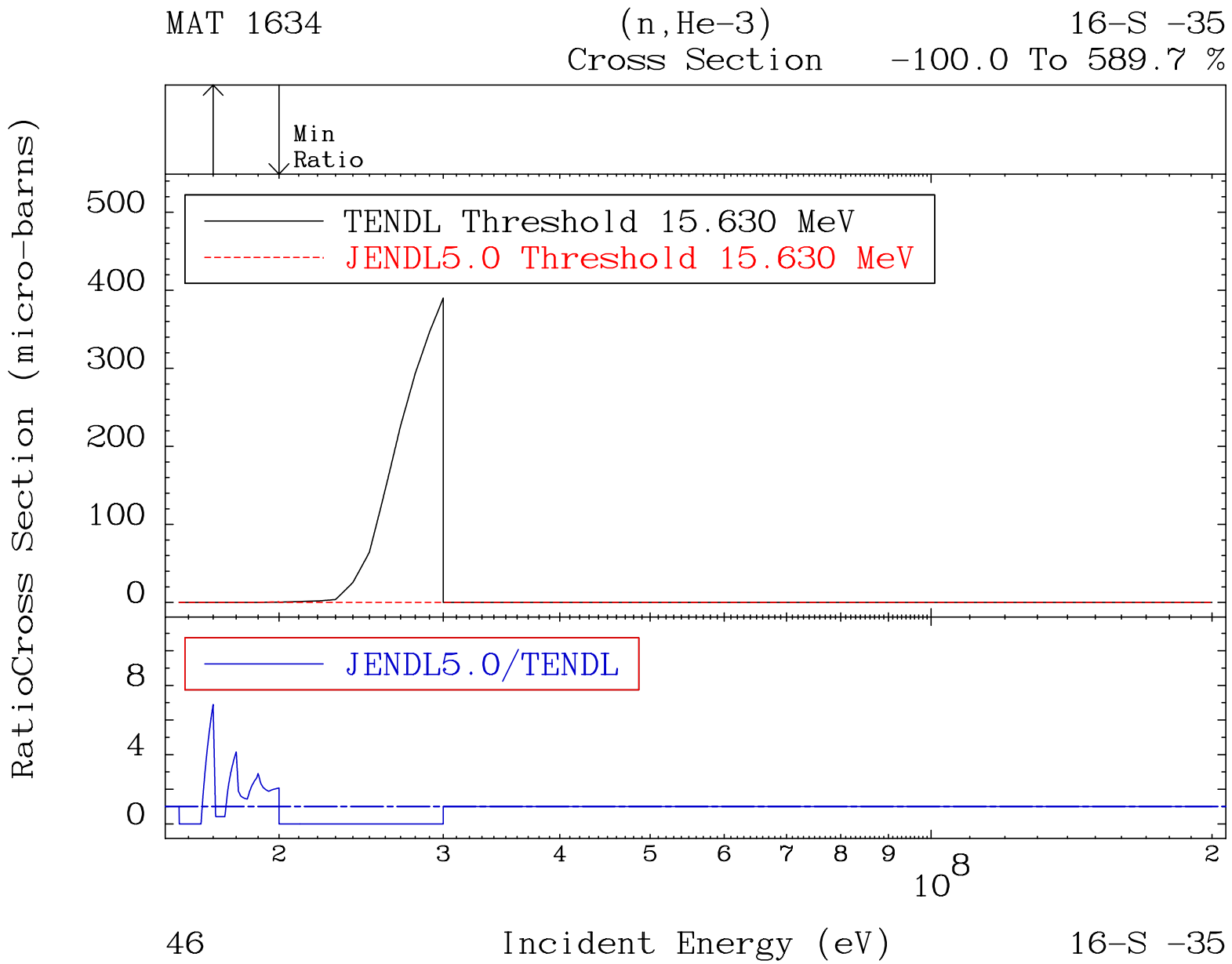

MAT 1634
(n,n') Continuum
Cross Section
16-S -35
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 5.2749 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
41
Incident Energy (eV)
16-S -35

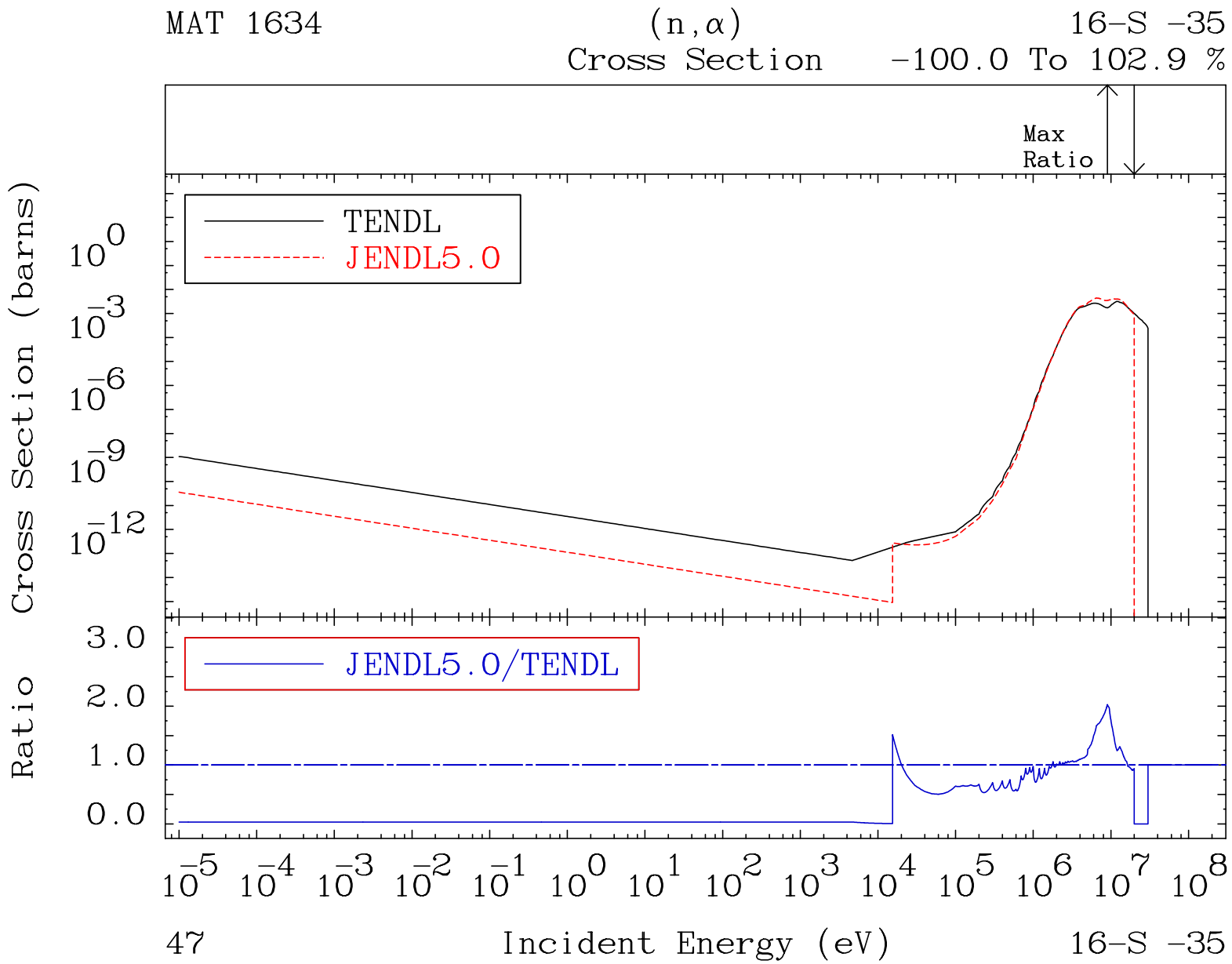

MAT 1634
(n,γ)
Cross Section
16-S -35
-100.0 To 5151. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
16-S -35

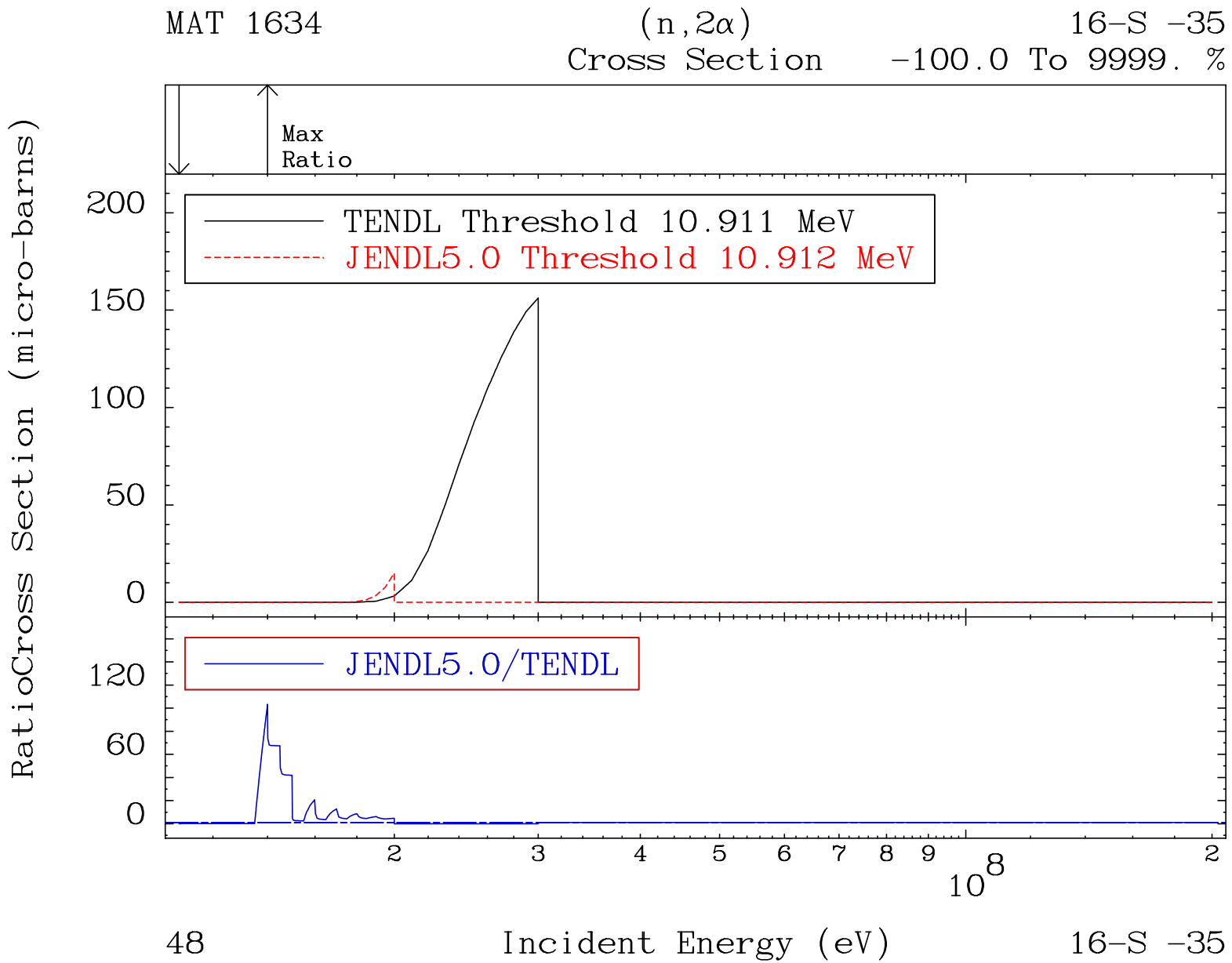

MAT 1634
(n,p)
16-S -35
Cross Section
-100.0 To 49.61 %
Max
Ratio
TENDL Threshold 3.2985 MeV
JENDL5.0 Threshold 3.2985 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
43
Incident Energy (eV)
16-S -35

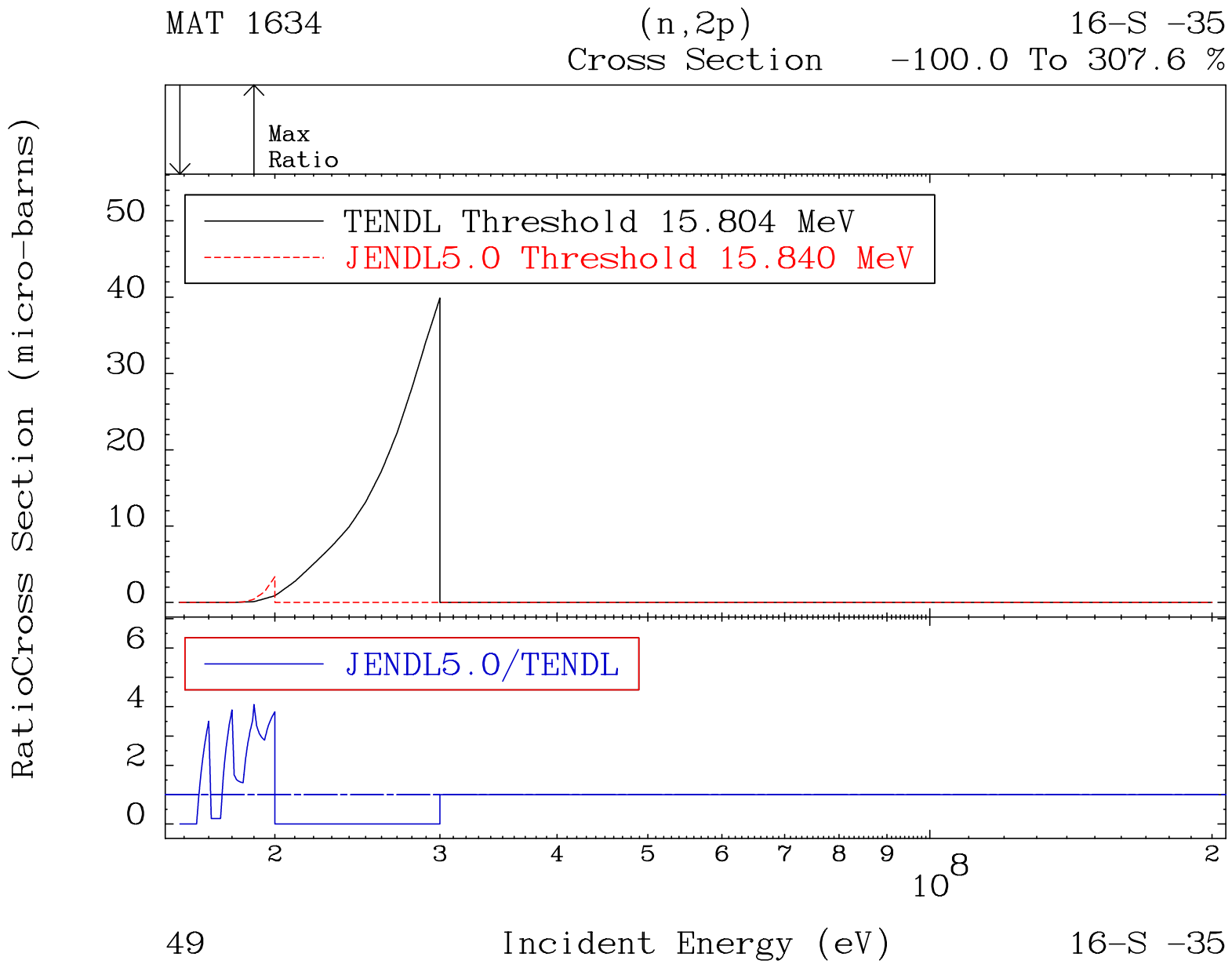

MAT 1634
(n,d)
16-S -35
Cross Section
-100.0 To 164.0 %
Max
Ratio
TENDL Threshold 9.6320 MeV
JENDL5.0 Threshold 9.6320 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
16-S -35

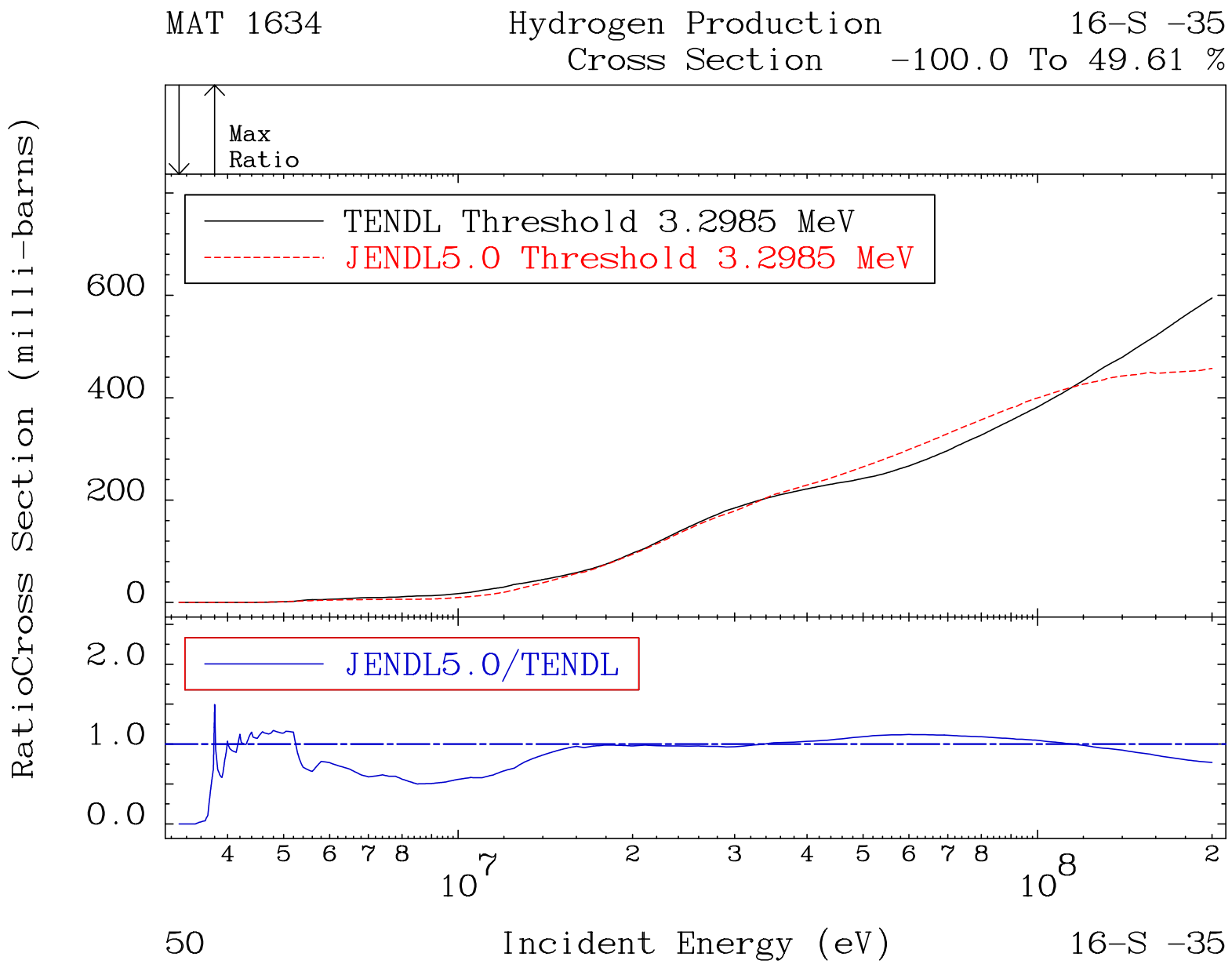

MAT 1634
(n,t)
16-S -35
Cross Section
-100.0 To 43.49 %
Max
Ratio
TENDL Threshold 9.6581 MeV
JENDL5.0 Threshold 9.6581 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
16-S -35

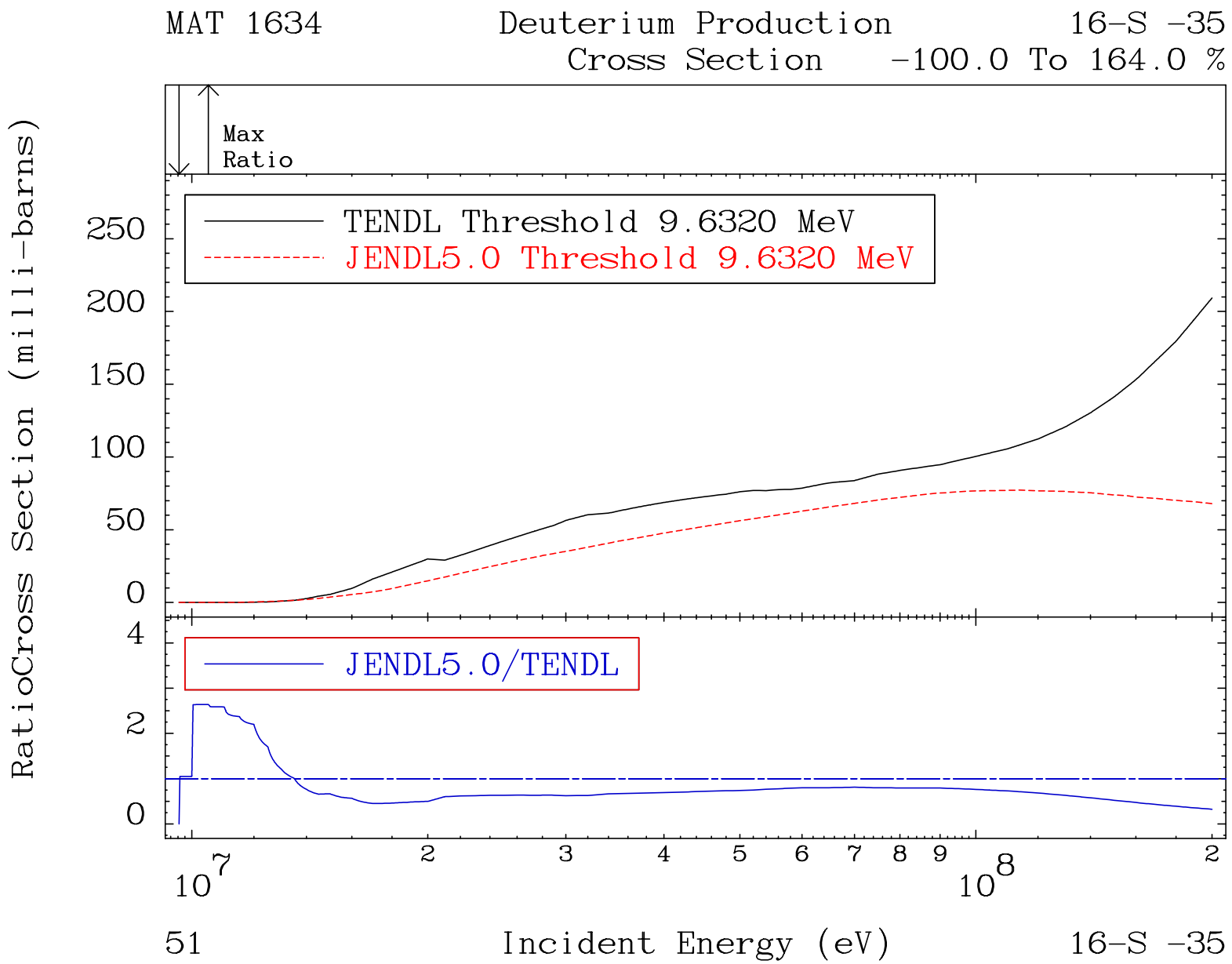

MAT 1634
(n,He-3)
16-S -35
Cross Section
-100.0 To 589.7 %
Min
Ratio
TENDL Threshold 15.630 MeV
JENDL5.0 Threshold 15.630 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
500
400
300
200
100
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
16-S -35

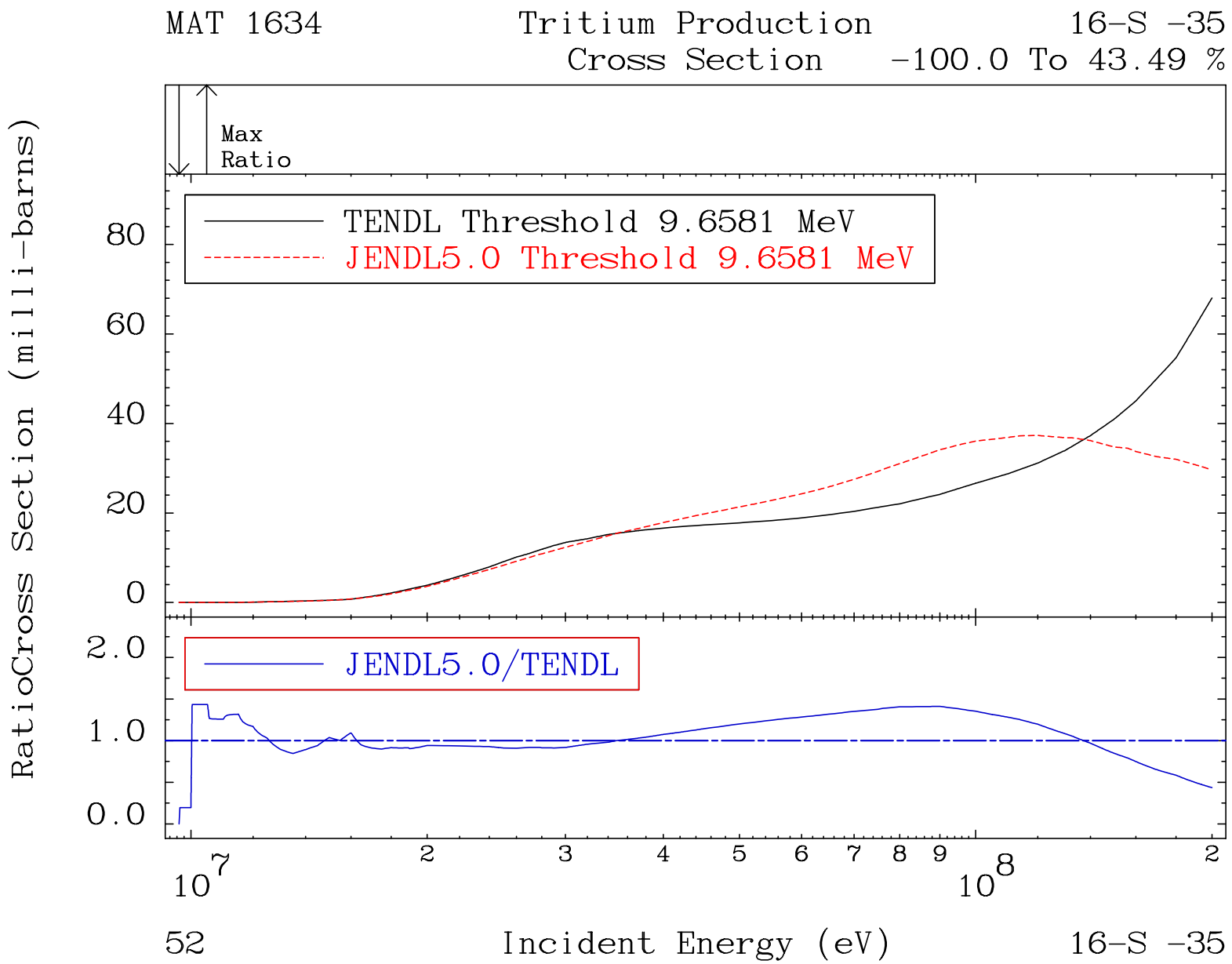

MAT 1634
(n,α)
16-S -35
Cross Section
-100.0 To 102.9 %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^0
10^-3
10^-6
10^-9
10^-12
JENDL5.0/TENDL
Ratio
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
47
Incident Energy (eV)
16-S -35

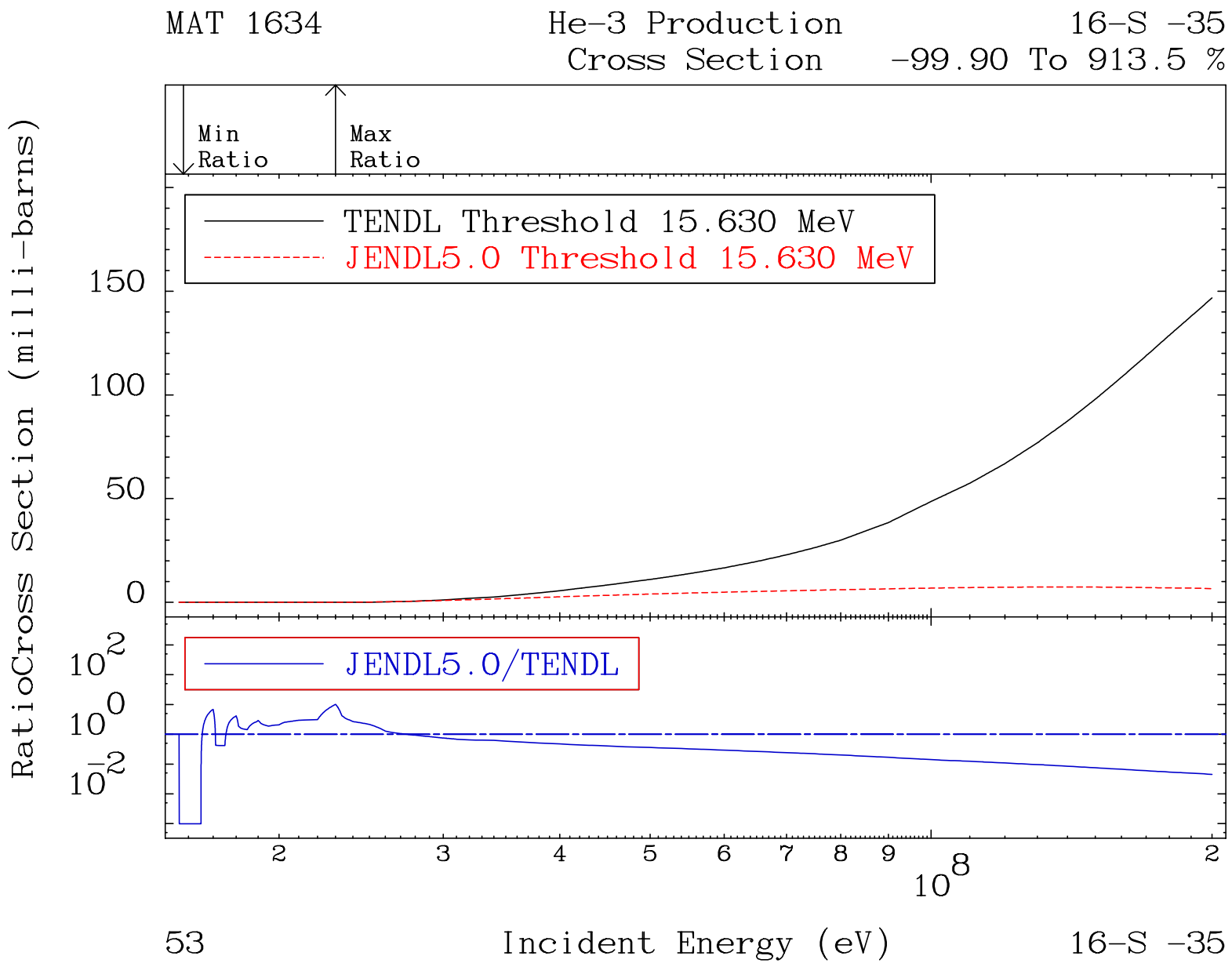

MAT 1634
(n,2α)
16-S -35
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 10.911 MeV
JENDL5.0 Threshold 10.912 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
200
150
100
50
0
120
60
0
2
3
4
5
6
7
8
9
10^8
2
48
Incident Energy (eV)
16-S -35

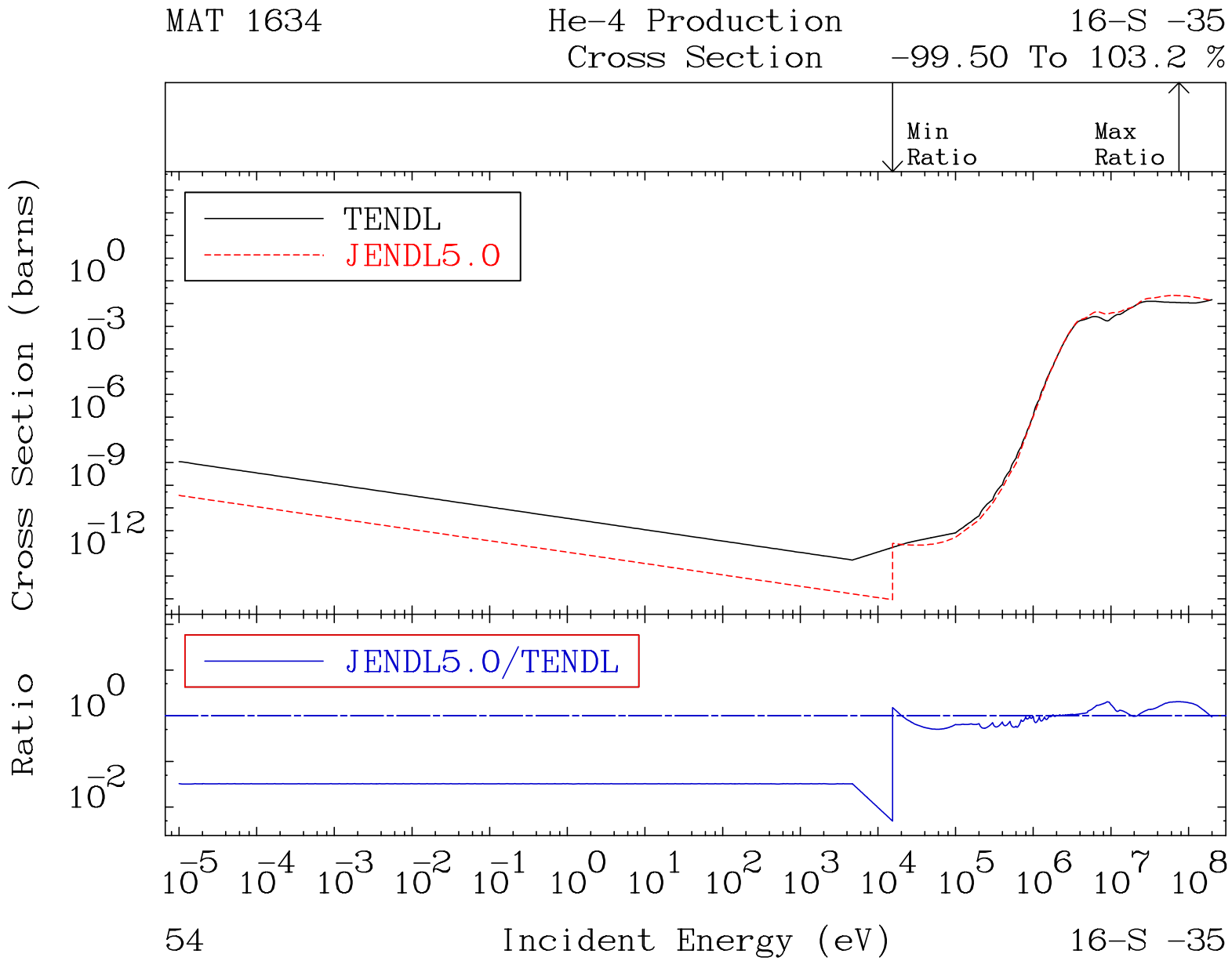

MAT 1634
(n,2p)
16-S -35
Cross Section
-100.0 To 307.6 %
Max
Ratio
TENDL Threshold 15.804 MeV
JENDL5.0 Threshold 15.840 MeV
JENDL5.0/TENDL
RatioCross Section (micro-barns)
50
40
30
20
10
0
6
4
2
0
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
16-S -35

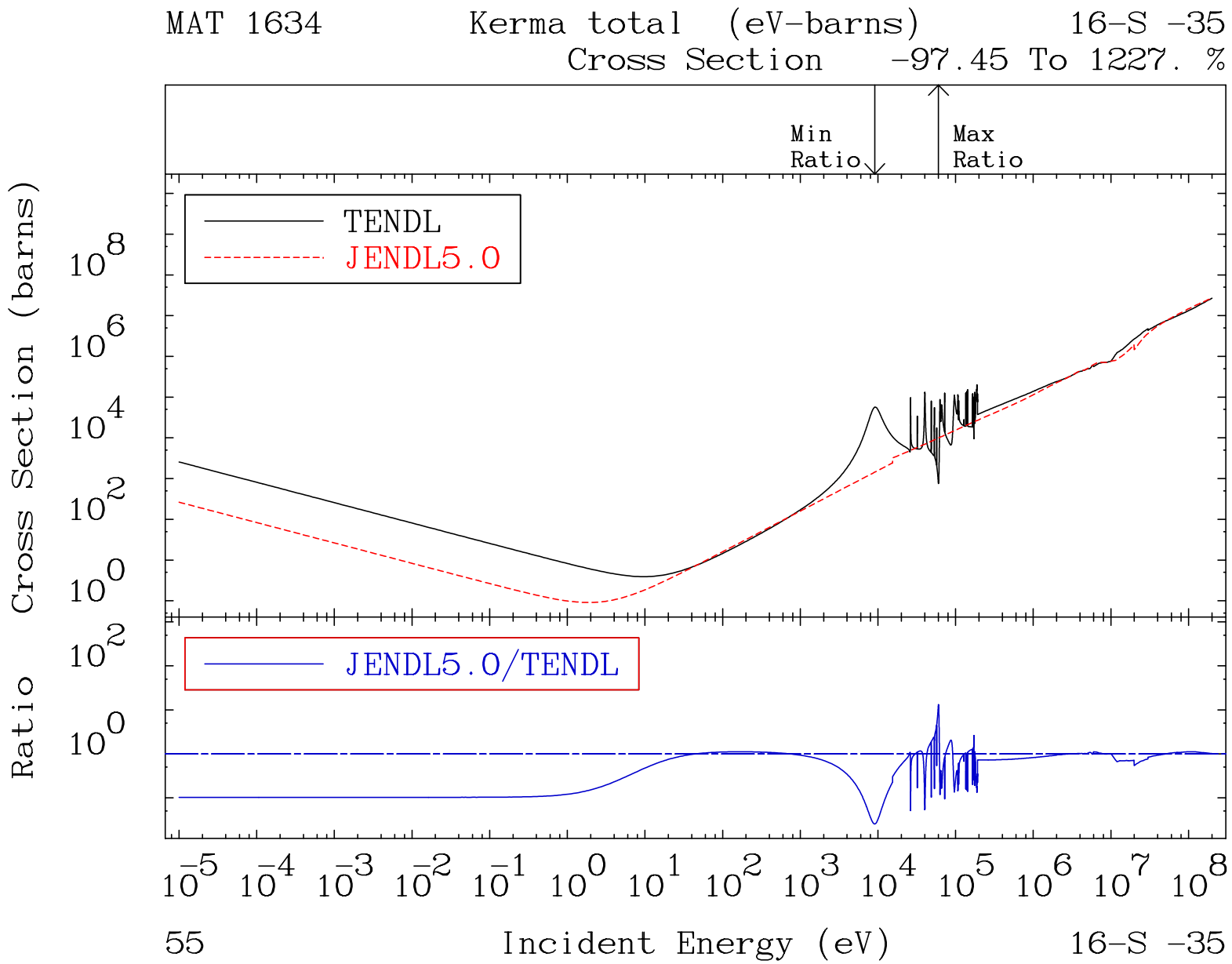

MAT 1634
Hydrogen Production
16-S -35
Cross Section
-100.0 To 49.61 %
Max
Ratio
TENDL Threshold 3.2985 MeV
JENDL5.0 Threshold 3.2985 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
400
200
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
16-S -35

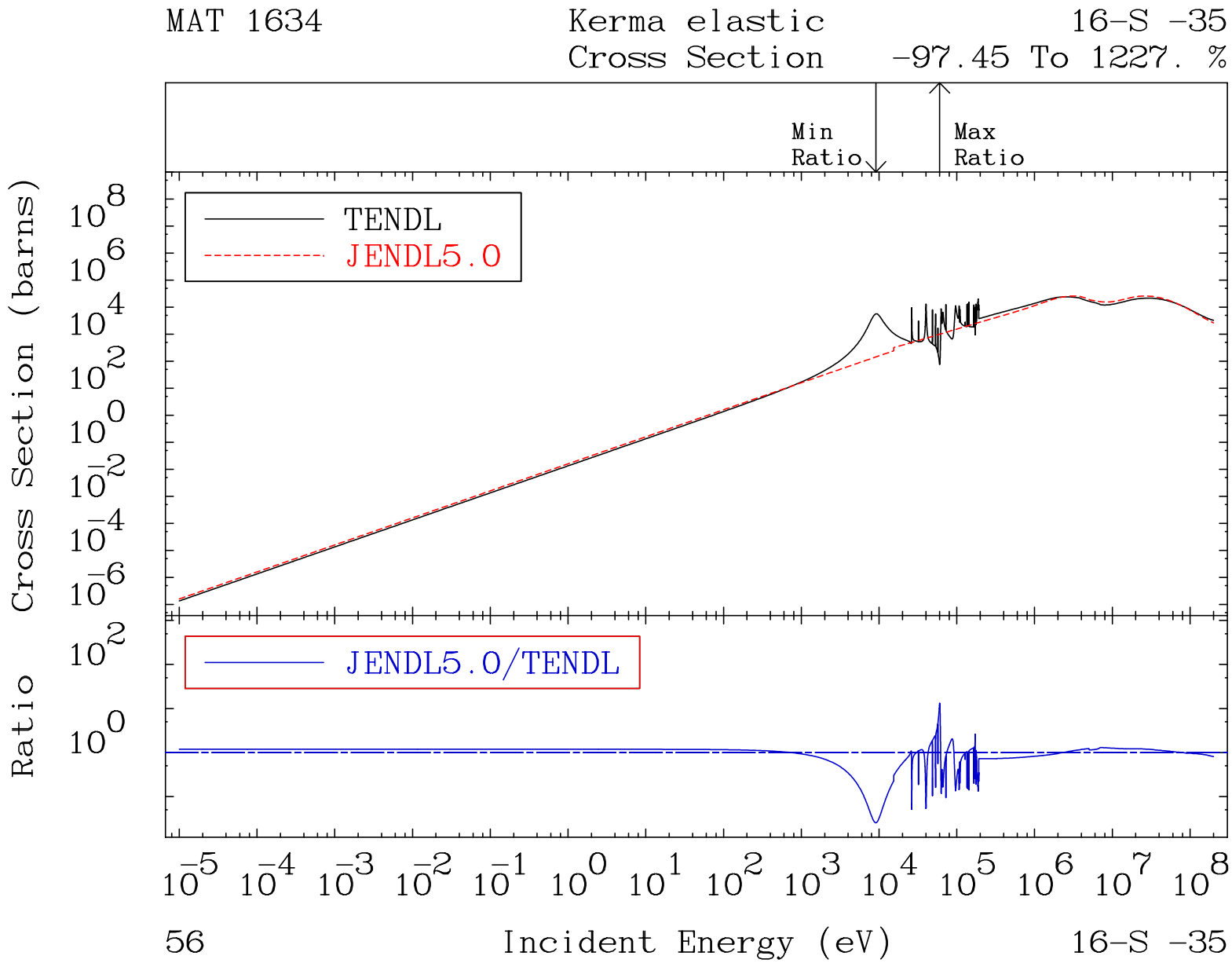

MAT 1634
Deuterium Production
16-S -35
Cross Section -100.0 To 164.0 %
Max
Ratio
TENDL Threshold 9.6320 MeV
JENDL5.0 Threshold 9.6320 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
4
2
0
10^7
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
16-S -35

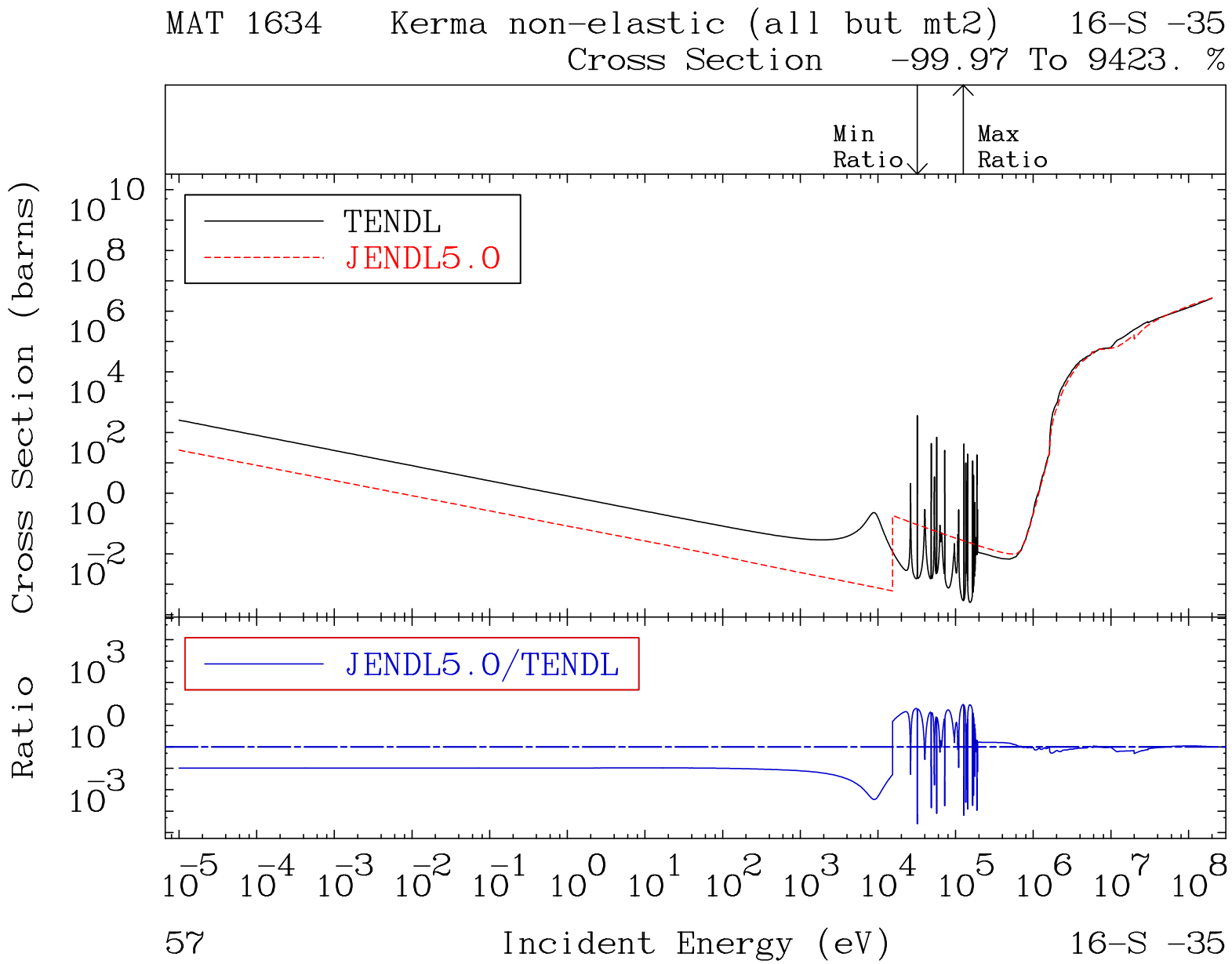

MAT 1634
Tritium Production
16-S -35
Cross Section
-100.0 To 43.49 %
Max
Ratio
TENDL Threshold 9.6581 MeV
JENDL5.0 Threshold 9.6581 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
16-S -35

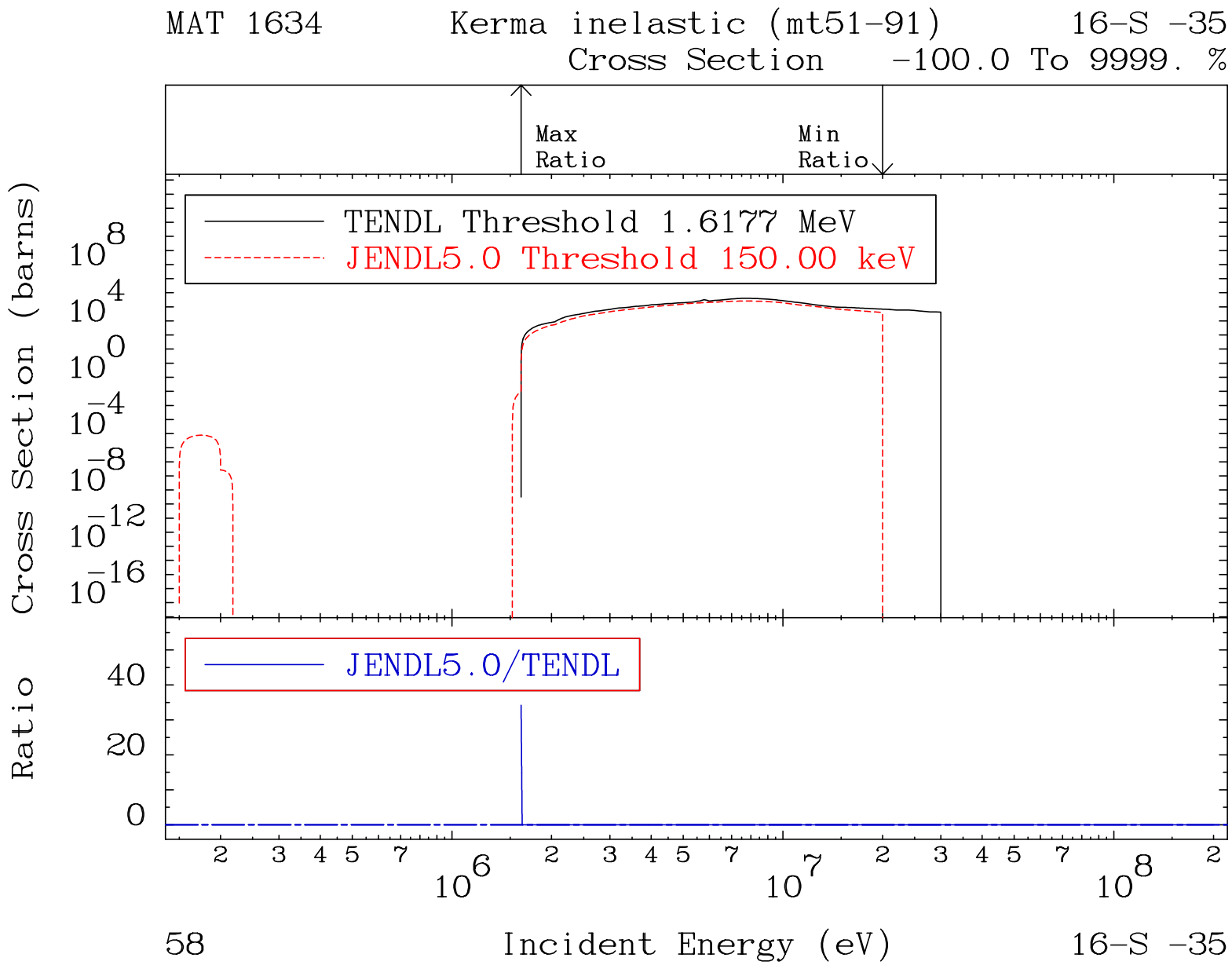

MAT 1634
He-3 Production
Cross Section
16-S -35
-99.90 To 913.5 %
Min Ratio
Max Ratio
TENDL Threshold 15.630 MeV
JENDL5.0 Threshold 15.630 MeV
150
100
50
0
JENDL5.0/TENDL
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
53
Incident Energy (eV)
16-S -35

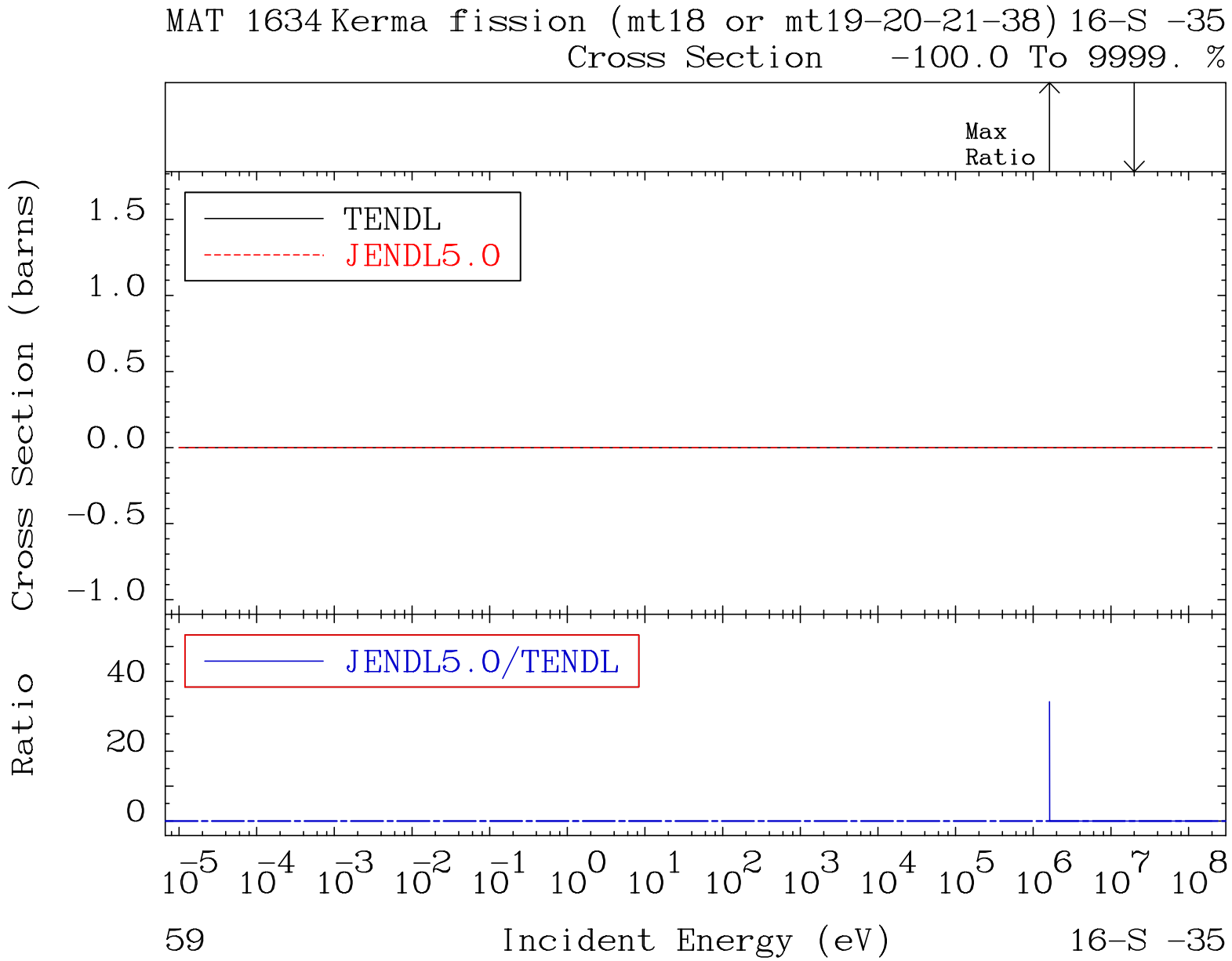

MAT 1634
He-4 Production
Cross Section
16-S -35
-99.50 To 103.2 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
16-S -35

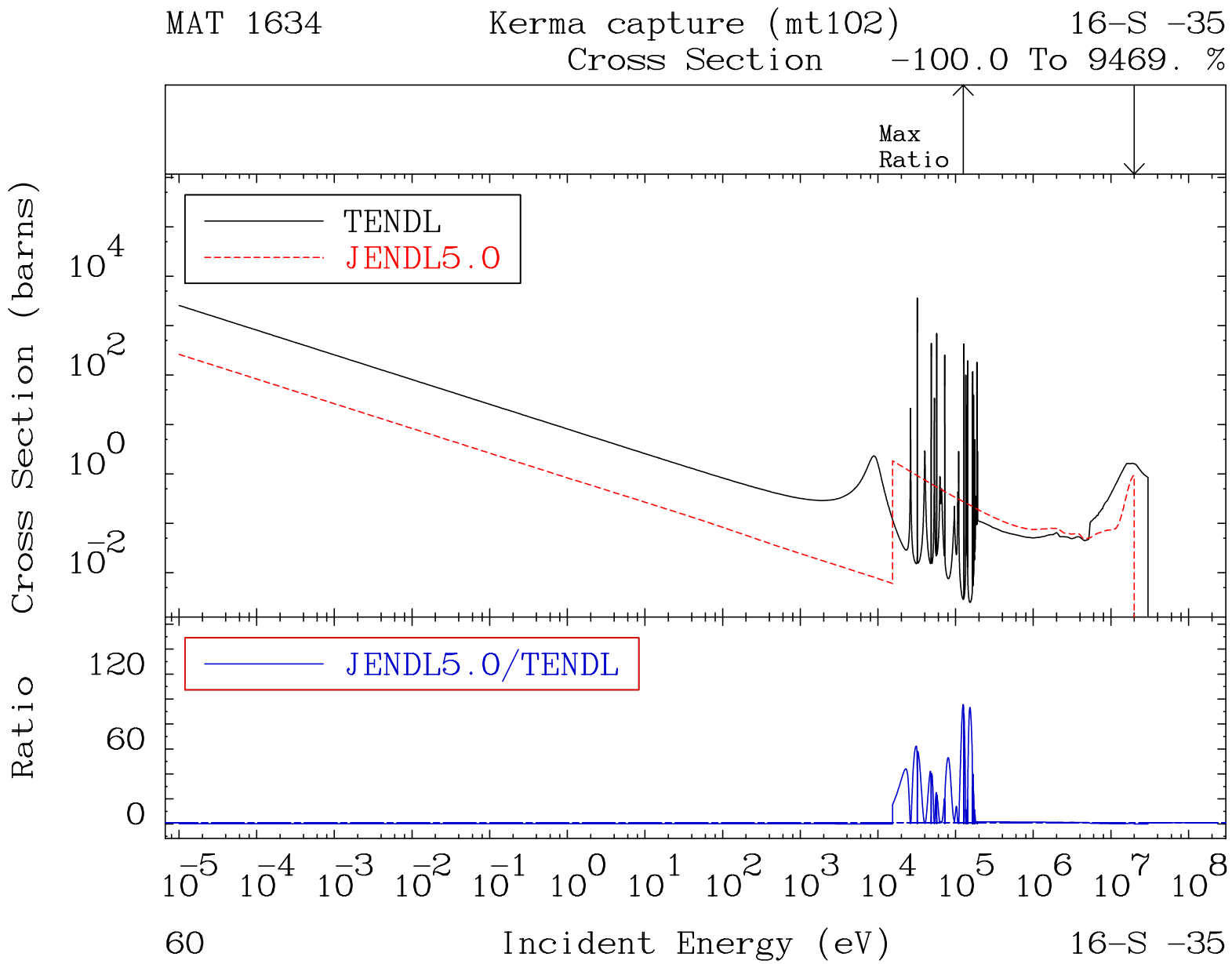

MAT 1634
Kerma total (eV-barns)
16-S -35
Cross Section -97.45 To 1227. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
16-S -35

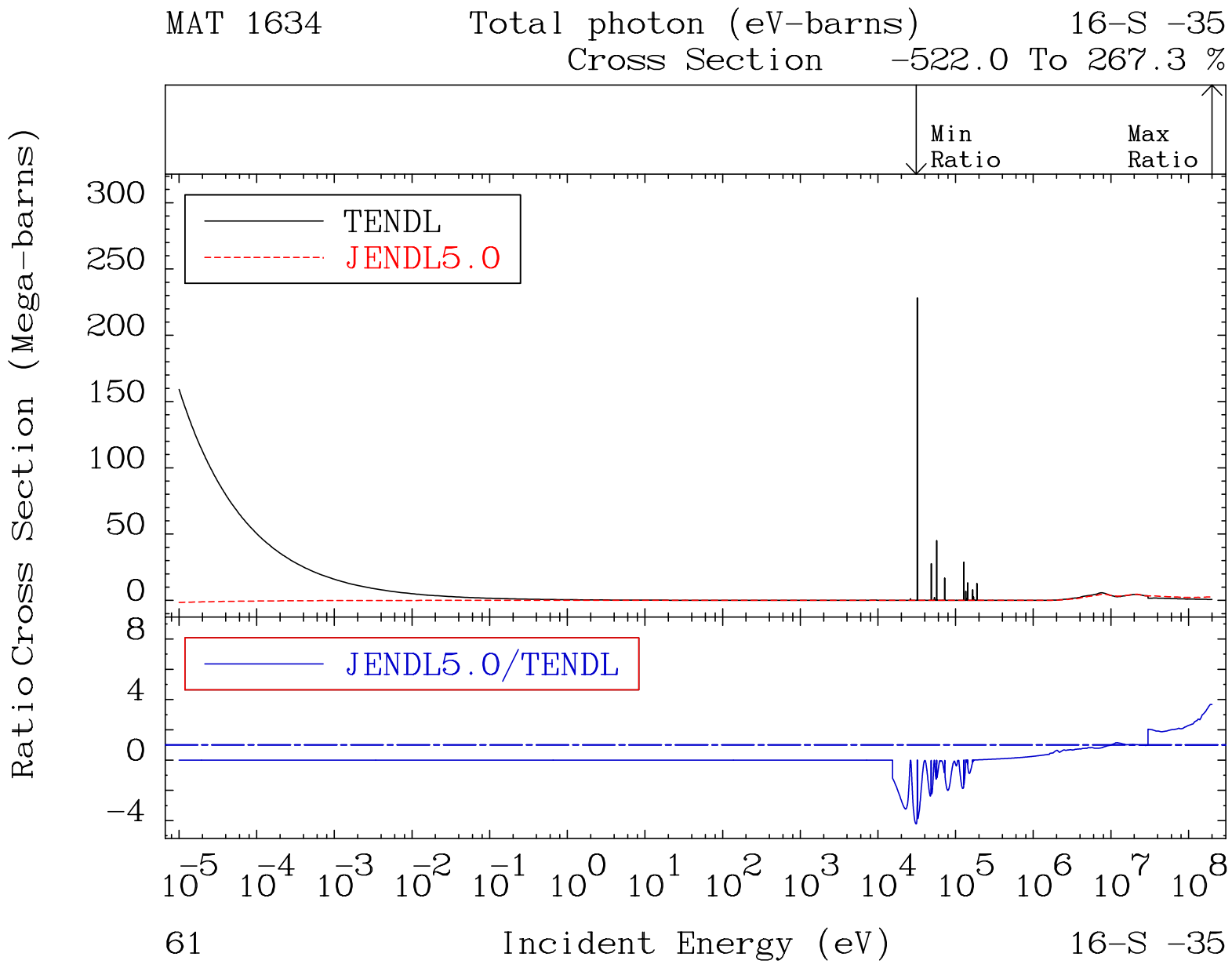

MAT 1634
Kerma elastic
Cross Section
16-S -35
-97.45 To 1227. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
56
16-S -35

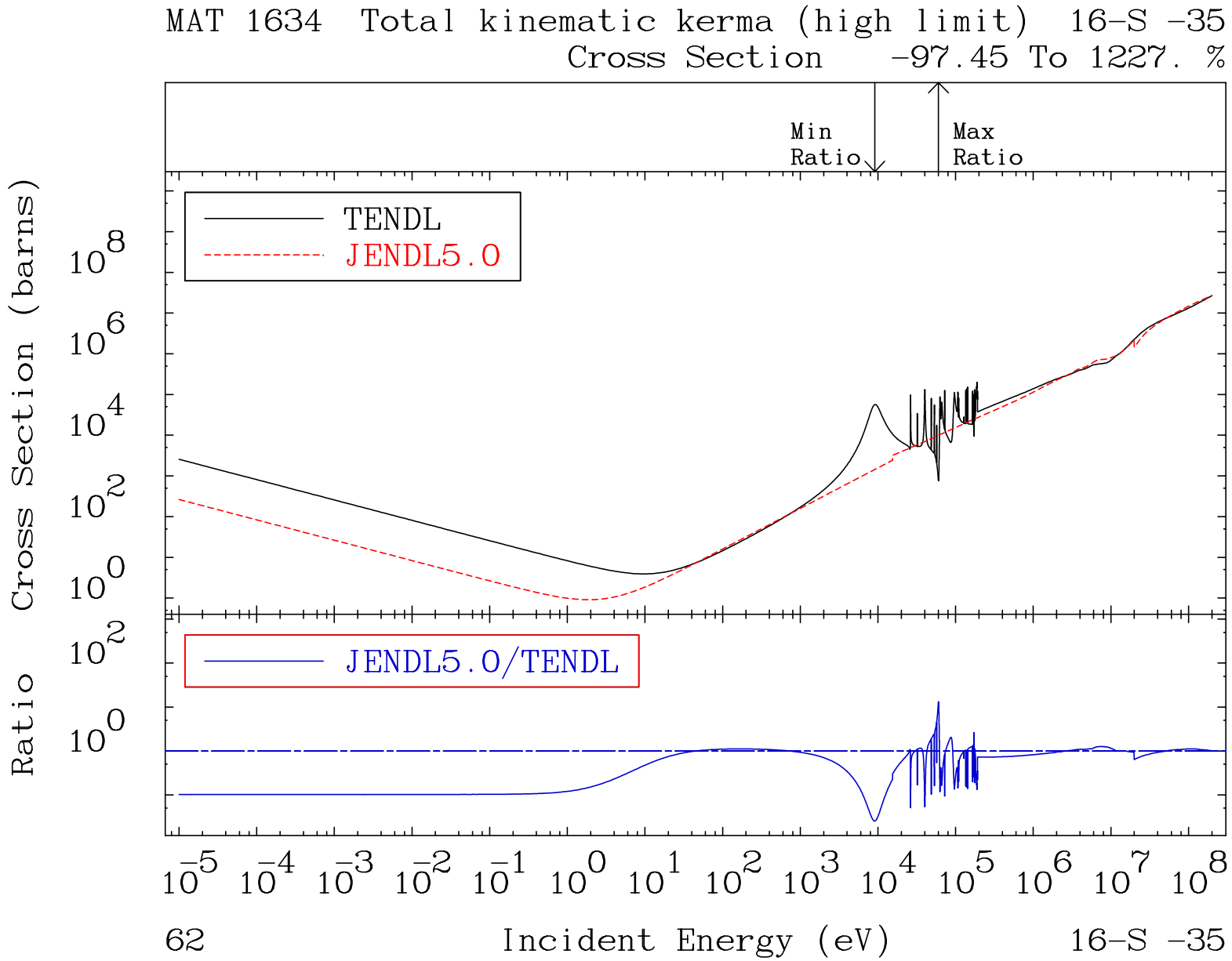

MAT 1634 Kerma non-elastic (all but mt2) 16-S -35
Cross Section -99.97 To 9423. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
16-S -35

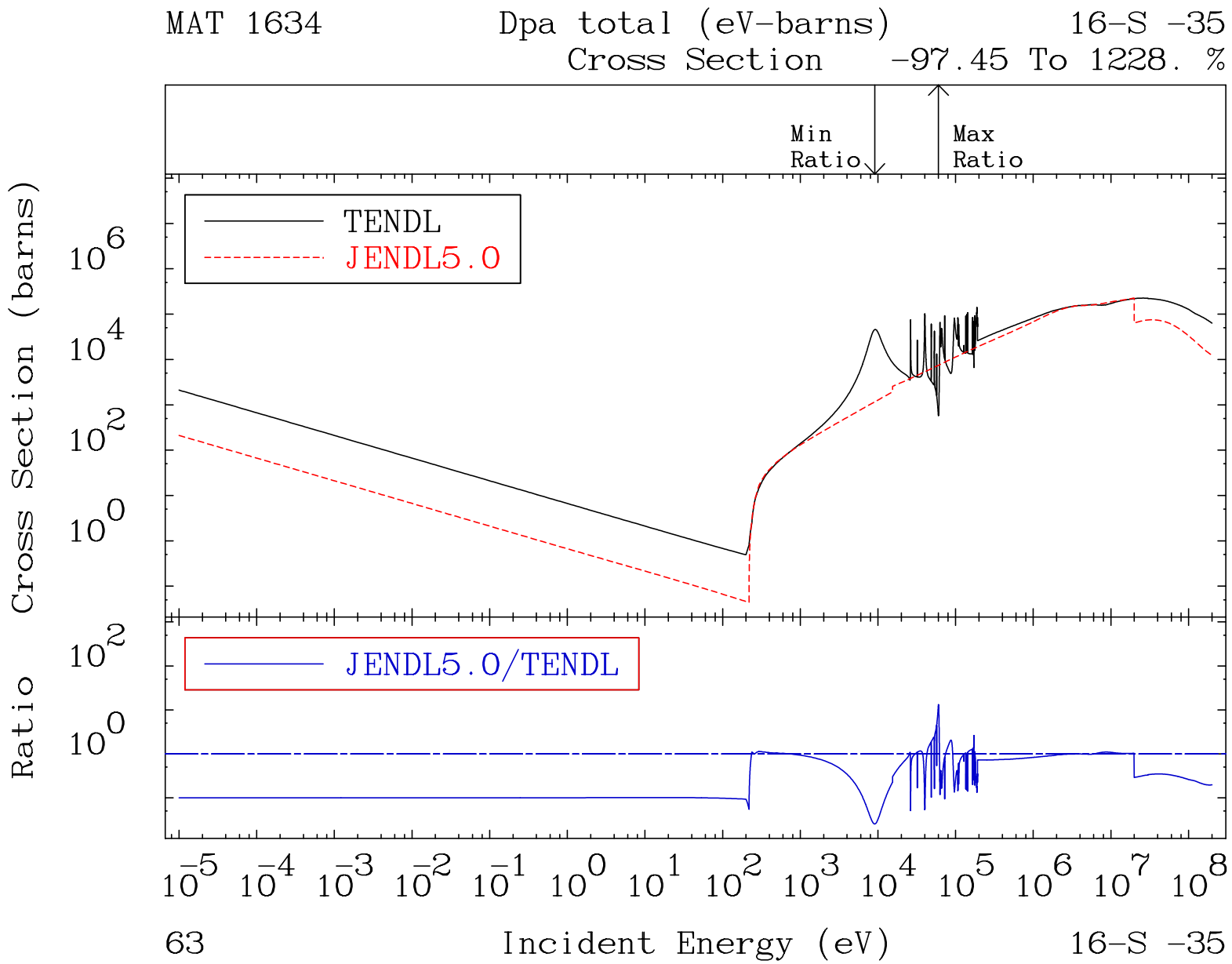

MAT 1634
Kerma inelastic (mt51-91)
16-S -35
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6177 MeV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
58
16-S -35

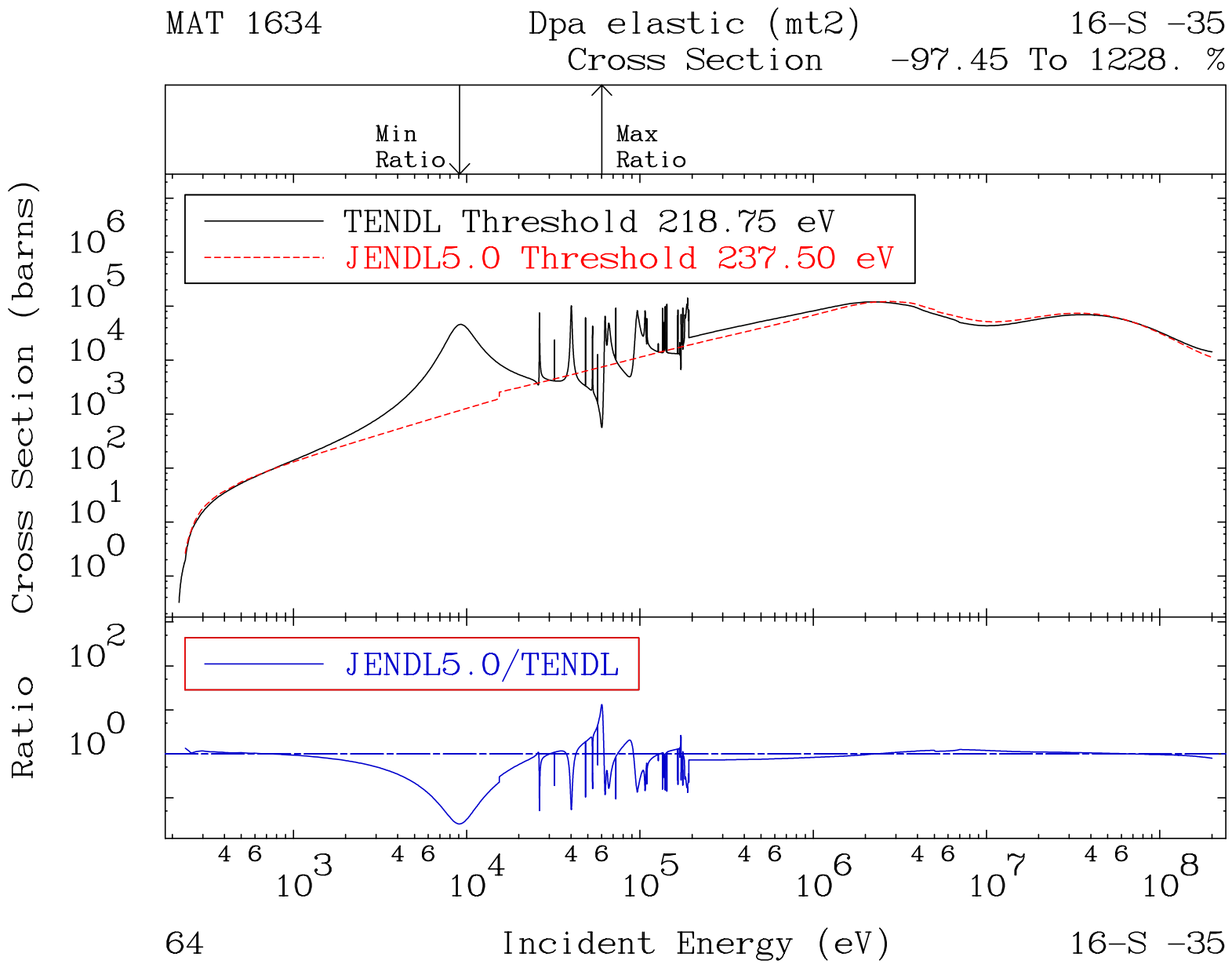

MAT 1634 Kerma fission (mt18 or mt19-20-21-38) 16-S -35
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
40
20
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
59
Incident Energy (eV)
16-S -35

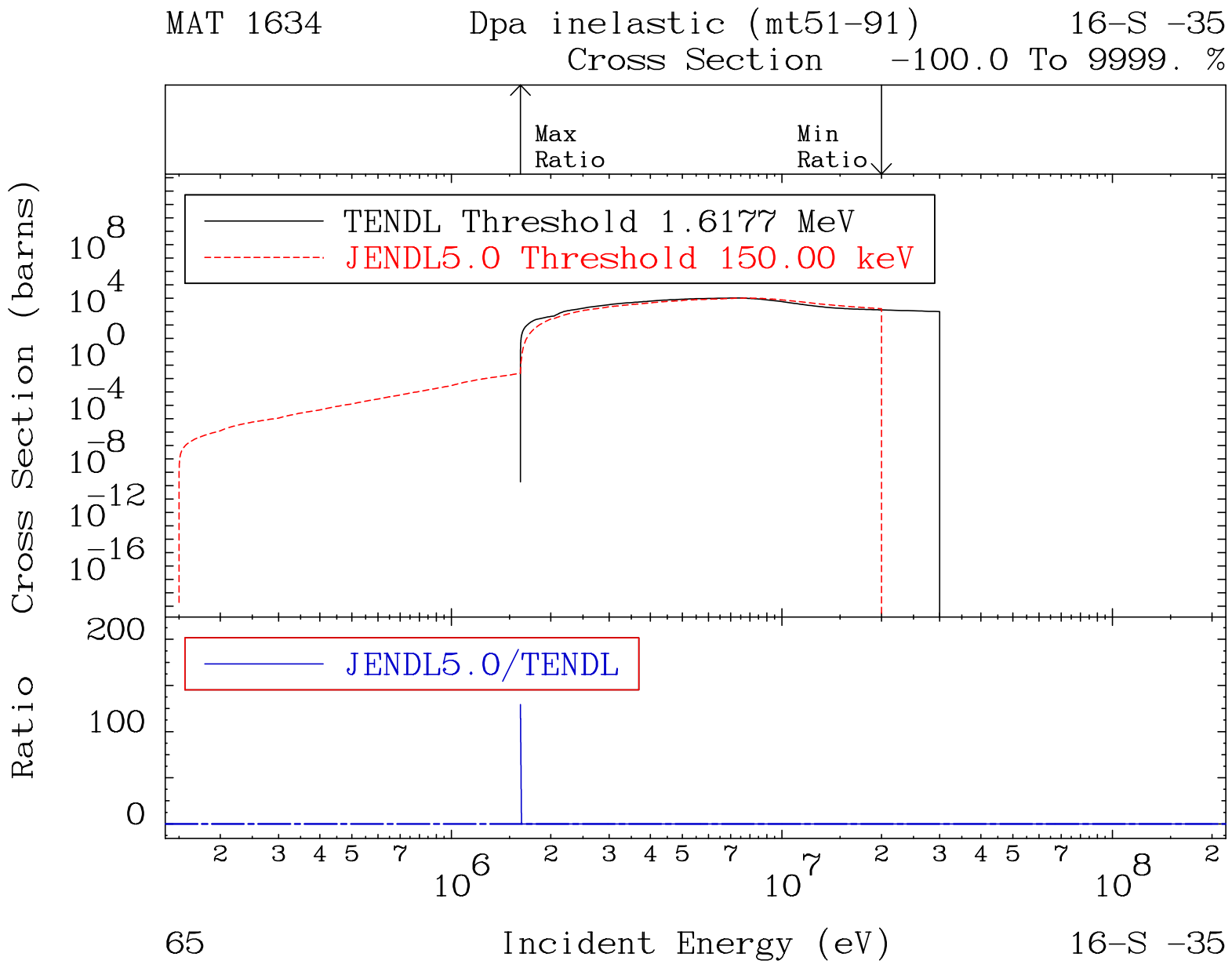

MAT 1634
Kerma capture (mt102)
16-S -35
Cross Section -100.0 To 9469. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
60
16-S -35

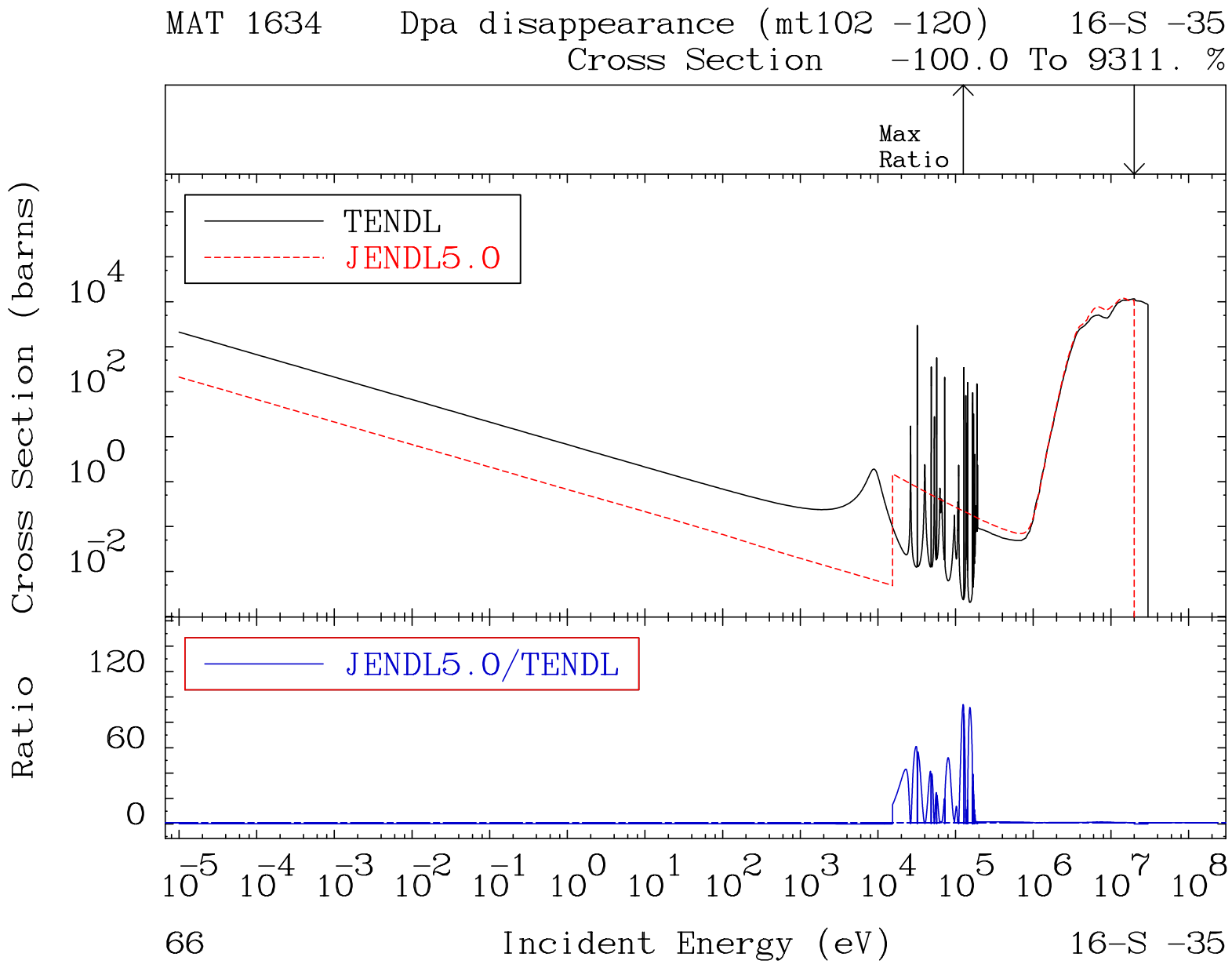

MAT 1634
Total photon (eV-barns)
16-S -35
Cross Section -522.0 To 267.3 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
300
250
200
150
100
50
0
8
4
0
-4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
61
Incident Energy (eV)
16-S -35

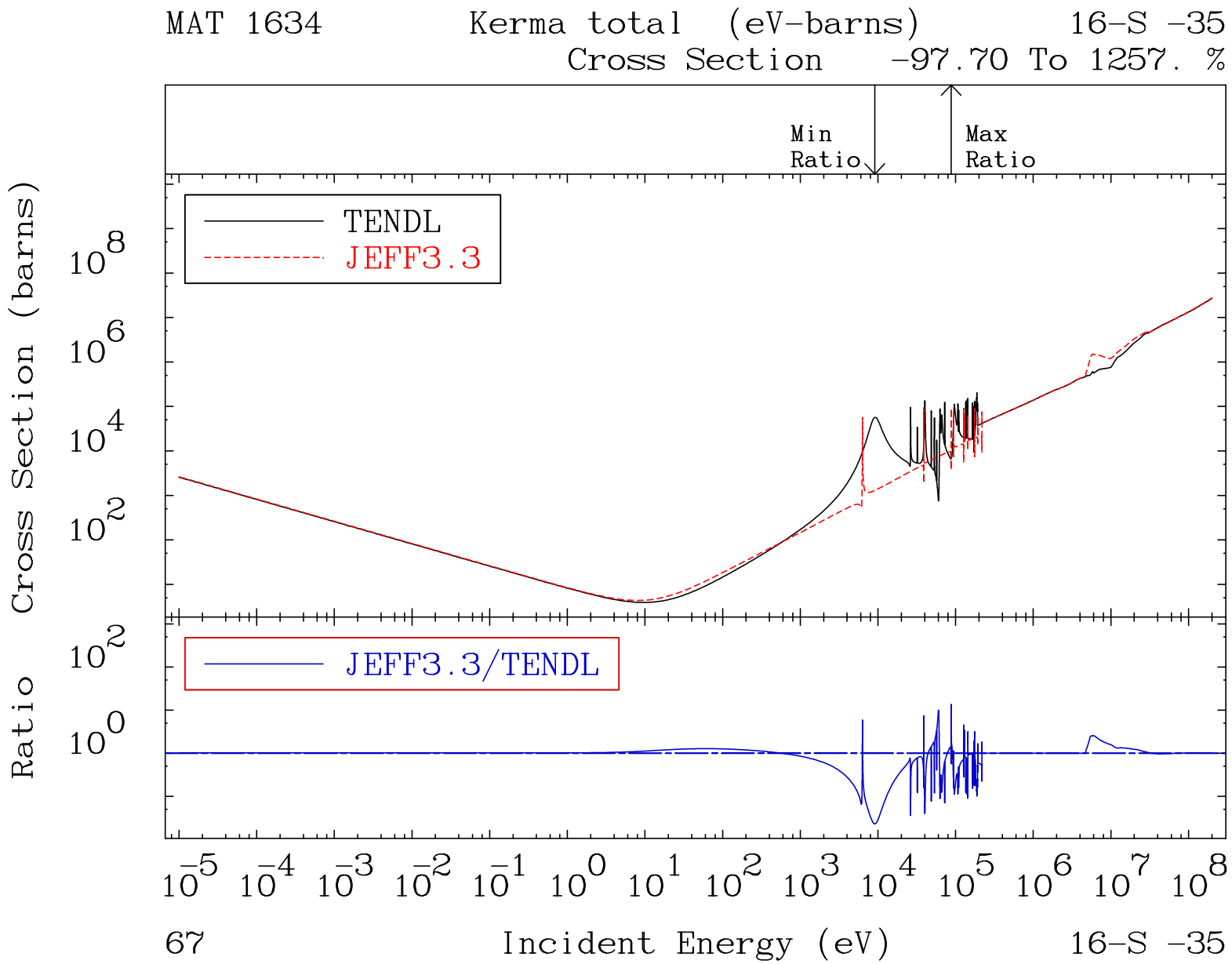

MAT 1634 Total kinematic kerma (high limit) 16-S -35
Cross Section -97.45 To 1227. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
16-S -35

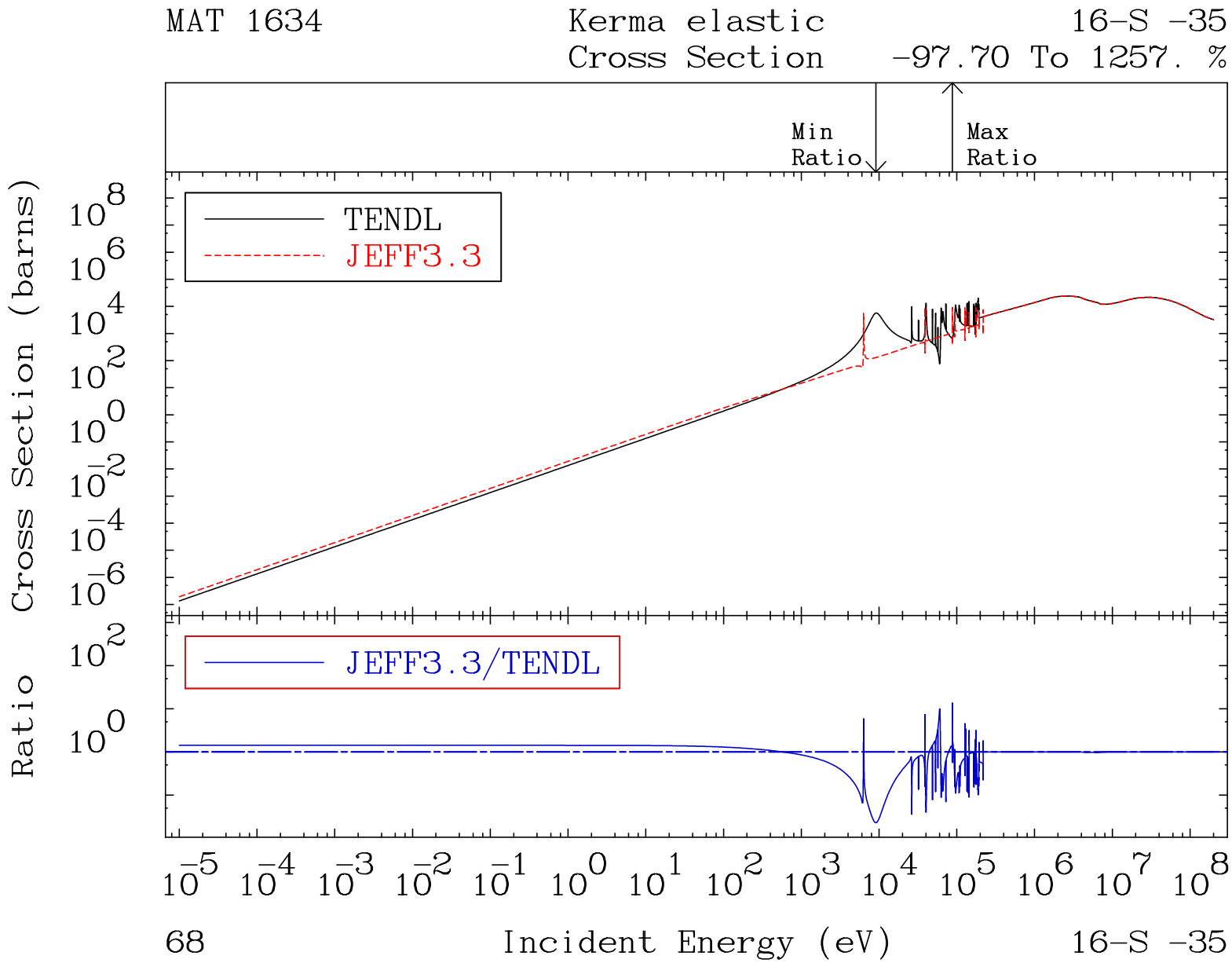

MAT 1634
Dpa total (eV-barns)
16-S -35
Cross Section -97.45 To 1228. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
16-S -35

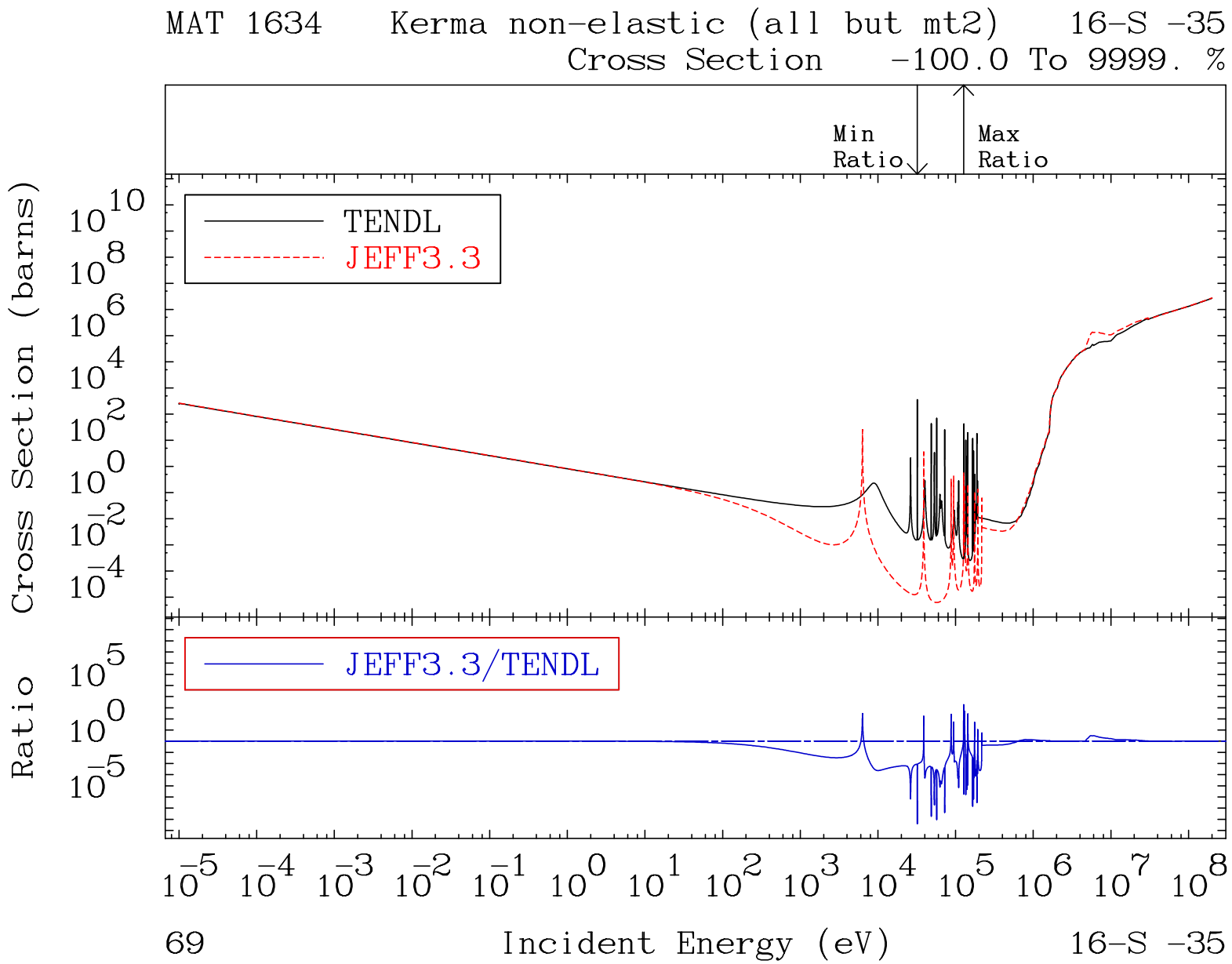

MAT 1634
Dpa elastic (mt2)
Cross Section
16-S -35
-97.45 To 1228. %
Min Ratio
Max Ratio
TENDL Threshold 218.75 eV
JENDL5.0 Threshold 237.50 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
16-S -35

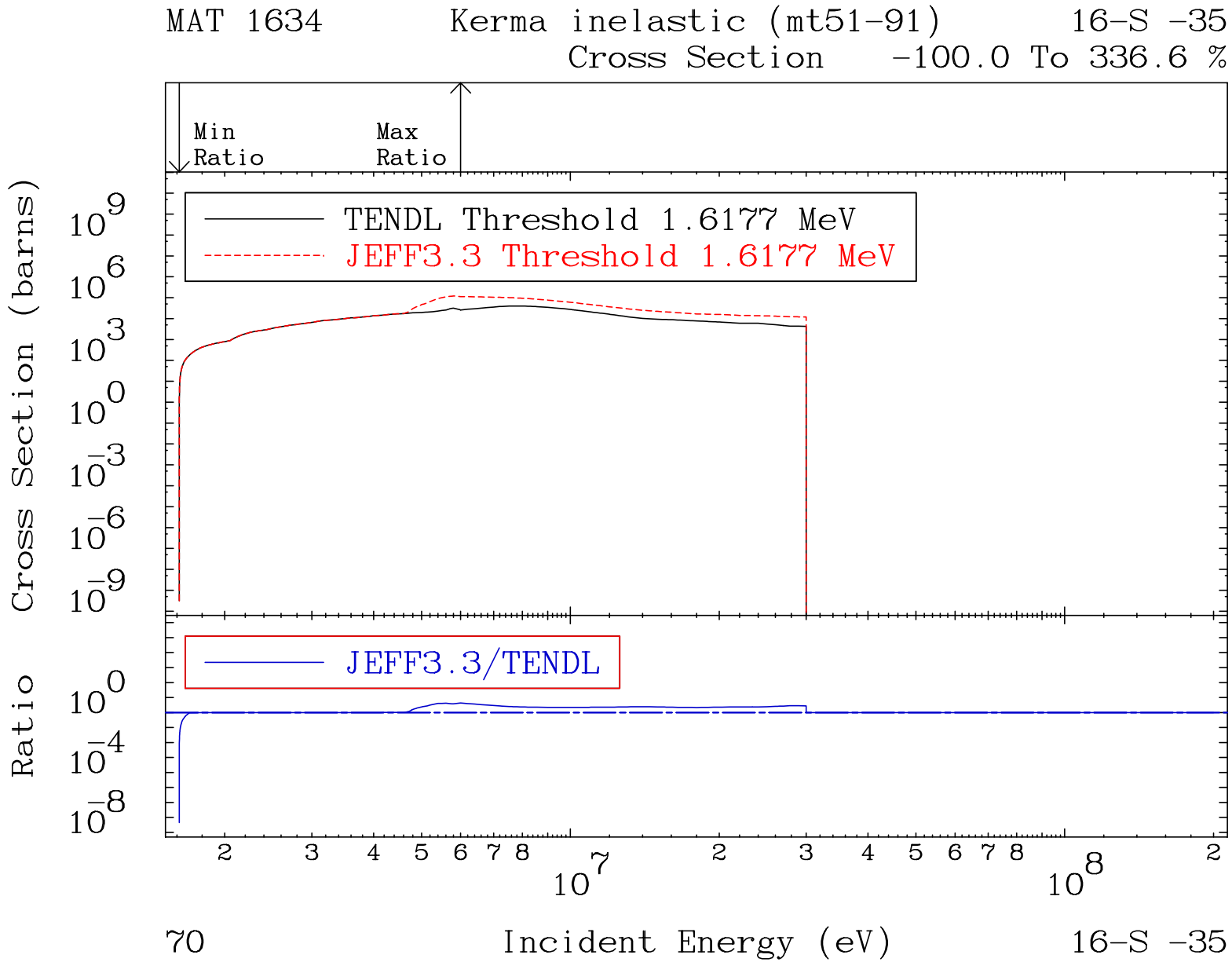

MAT 1634
Dpa inelastic (mt51-91)
16-S -35
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.6177 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
16-S -35

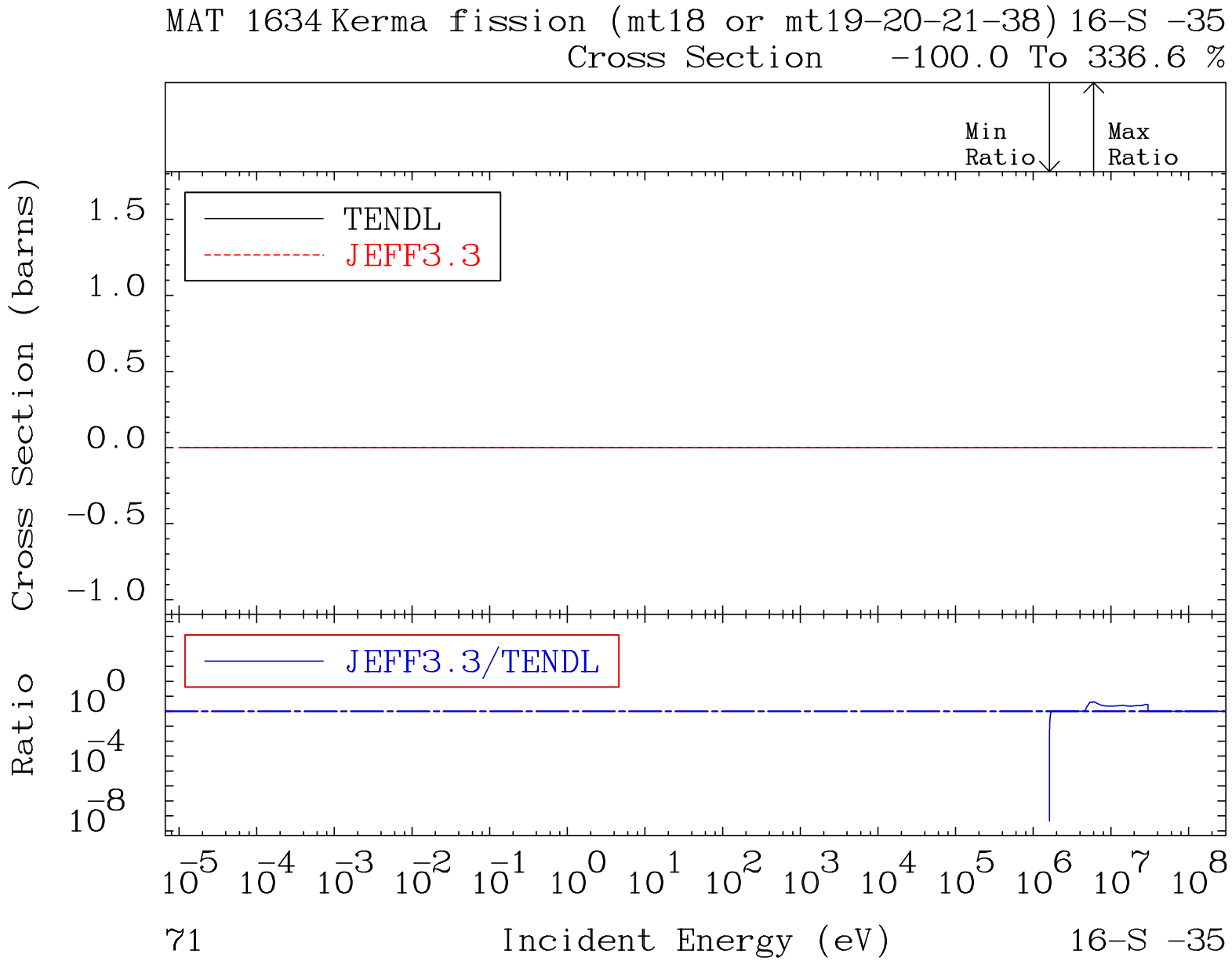

MAT 1634 Dpa disappearance (mt102 -120) 16-S -35
Cross Section -100.0 To 9311. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^{4}
10^{2}
10^{0}
10^{-2}
JENDL5.0/TENDL
Ratio
120
60
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
66
Incident Energy (eV)
16-S -35

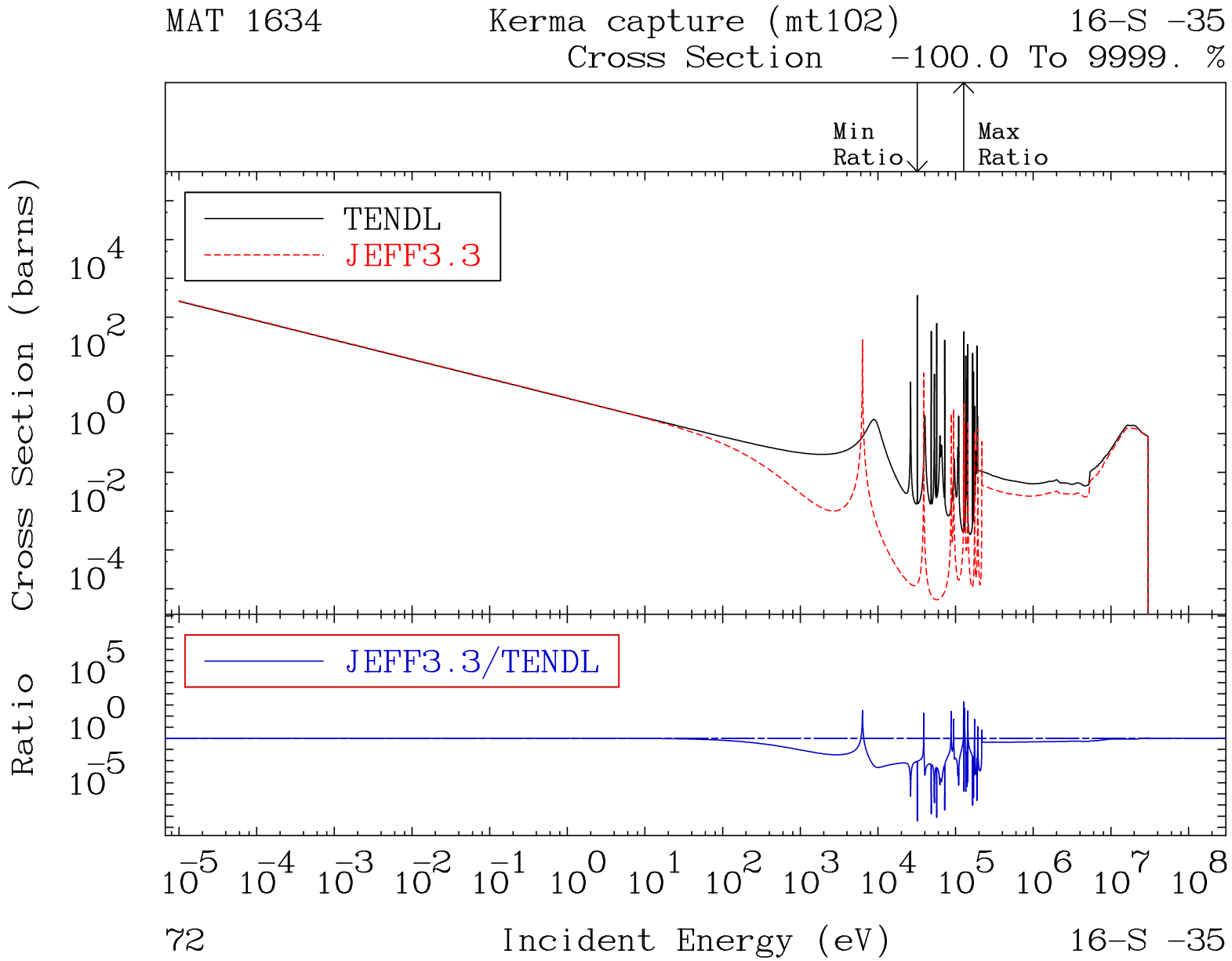

MAT 1634
Kerma total (eV-barns)
16-S -35
Cross Section -97.70 To 1257. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
16-S -35

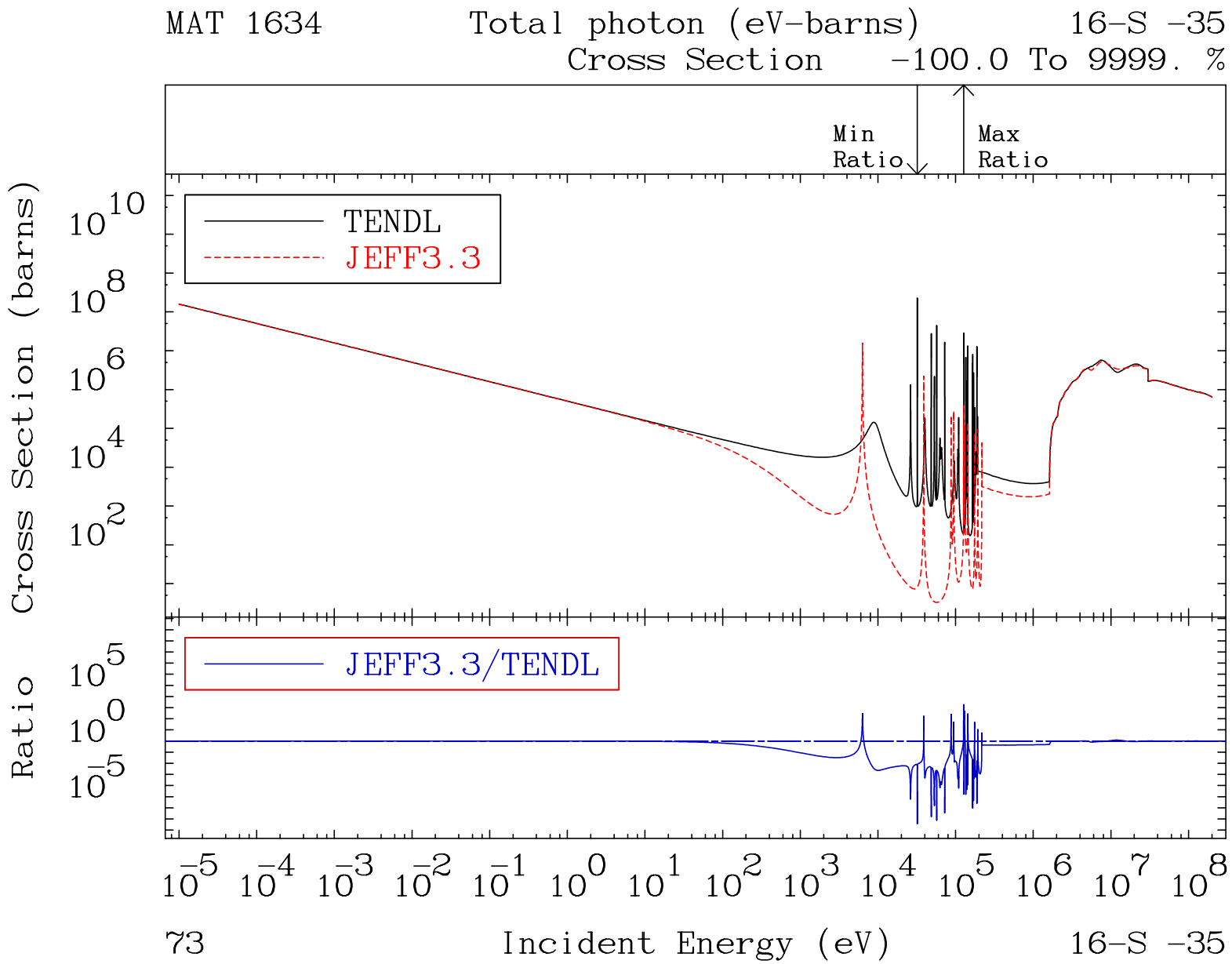

MAT 1634
Kerma elastic
16-S -35
Cross Section
-97.70 To 1257. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
16-S -35

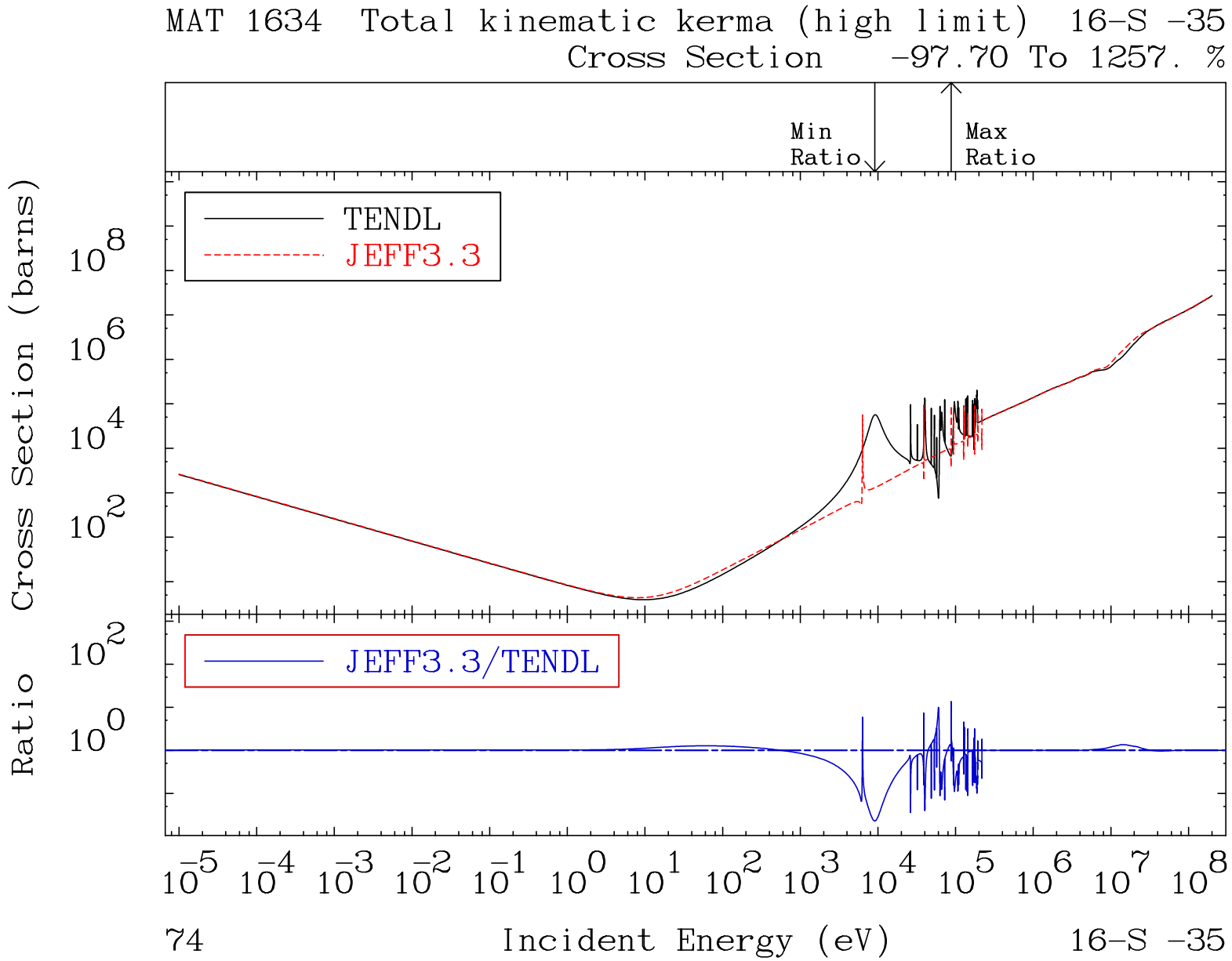

MAT 1634 Kerma non-elastic (all but mt2) 16-S -35
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
16-S -35

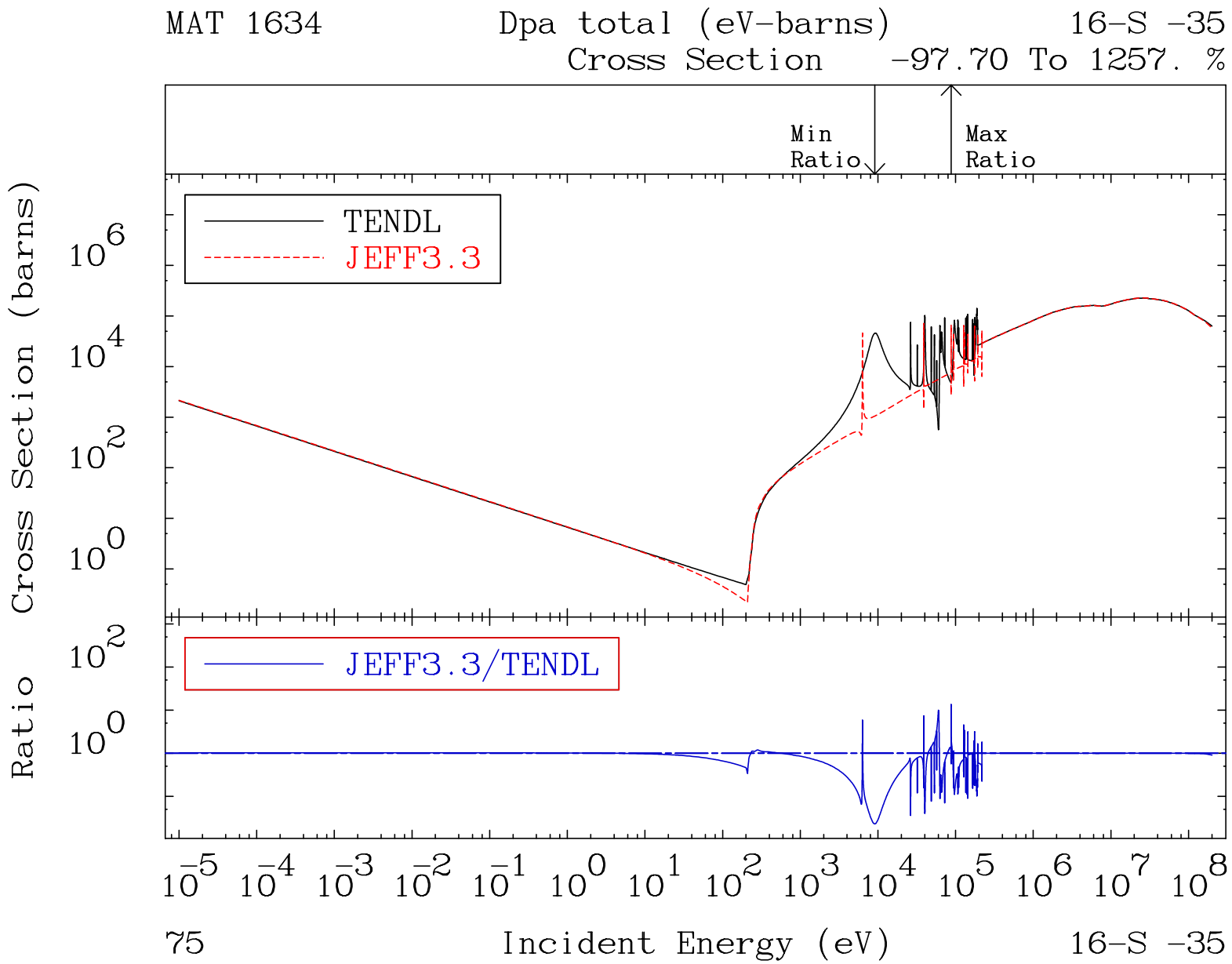

MAT 1634
Kerma inelastic (mt51-91)
16-S -35
Cross Section -100.0 To 336.6 %
Min Ratio
Max Ratio
TENDL Threshold 1.6177 MeV
JEFF3.3 Threshold 1.6177 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
70
16-S -35

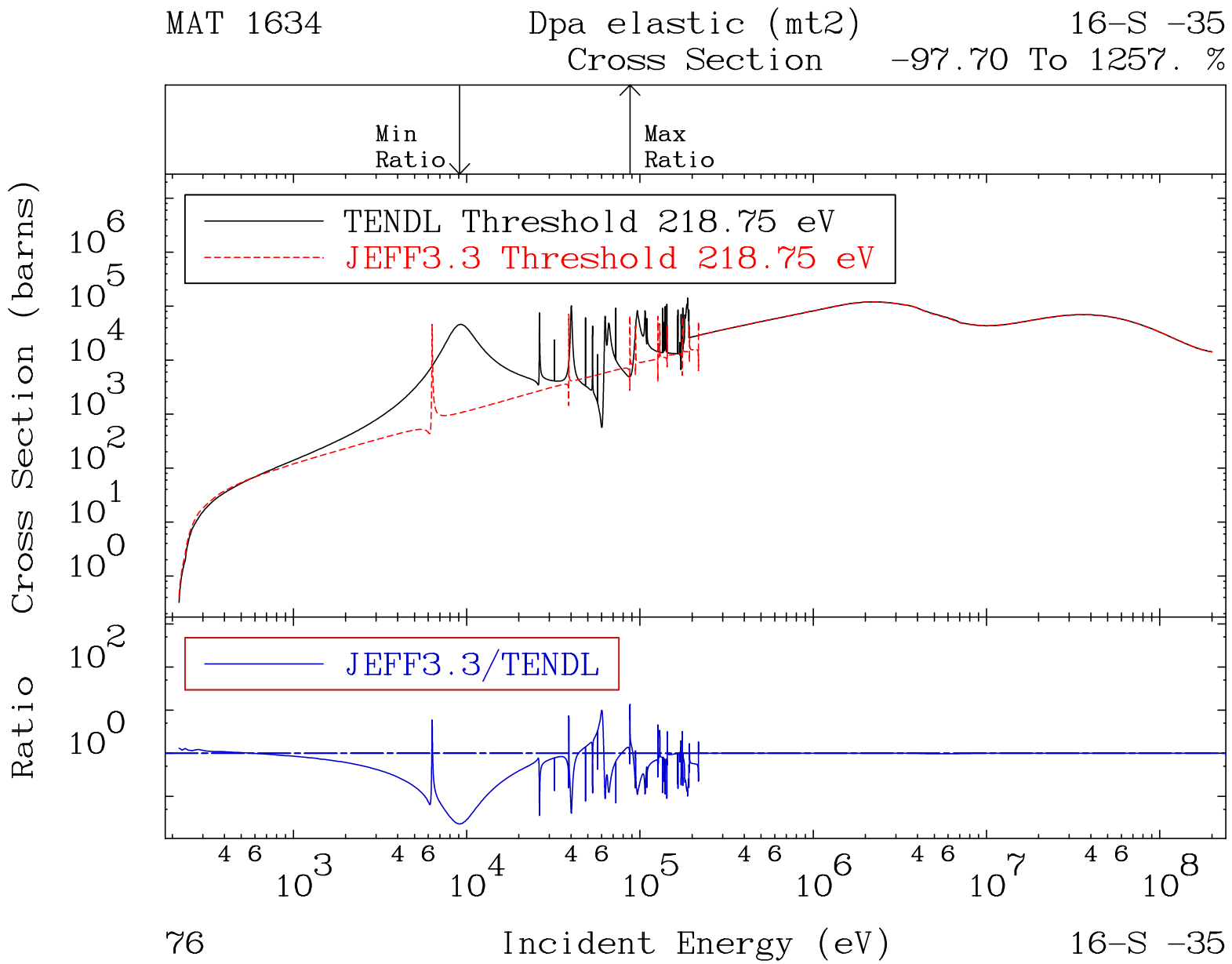

MAT 1634 Kerma fission (mt18 or mt19-20-21-38) 16-S -35
Cross Section -100.0 To 336.6 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{0}
10^{-4}
10^{-8}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
71
Incident Energy (eV)
16-S -35

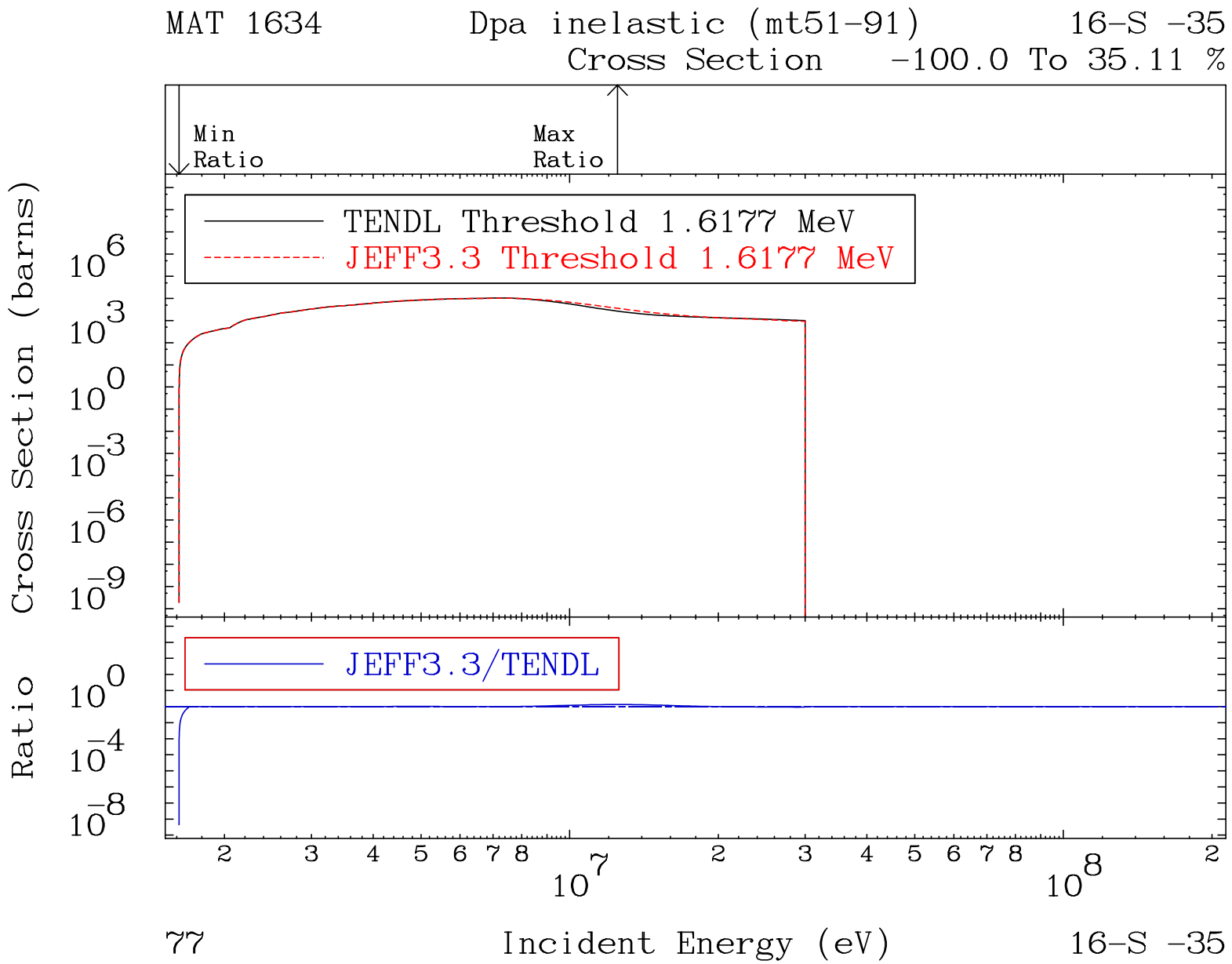

MAT 1634
Kerma capture (mt102)
16-S -35
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
16-S -35

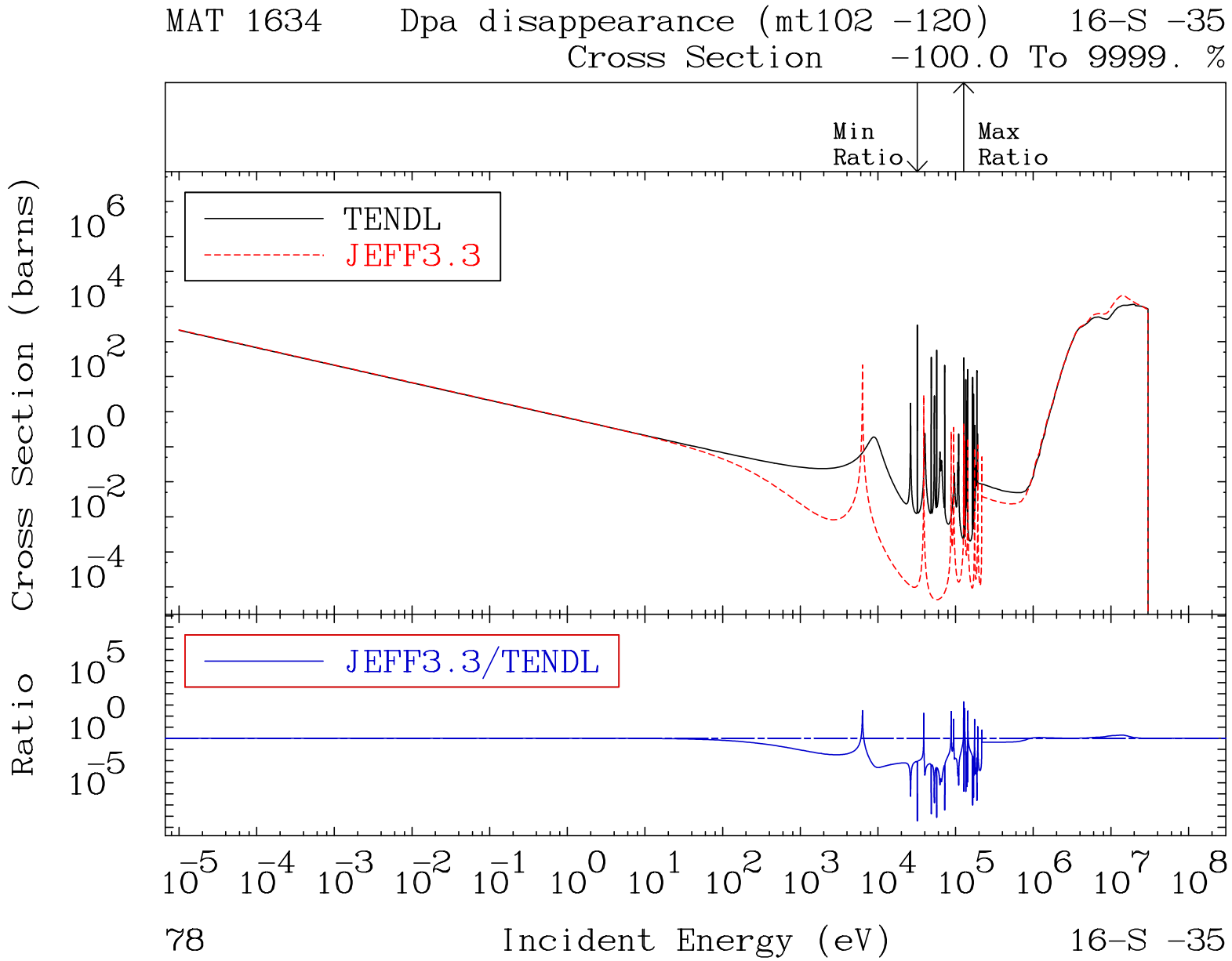

MAT 1634
Total photon (eV-barns)
16-S -35
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
16-S -35


MAT 1634 Total kinematic kerma (high limit) 16-S -35
Cross Section -97.70 To 1257. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
16-S -35


MAT 1634
Dpa total (eV-barns)
16-S -35
Cross Section -97.70 To 1257. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
16-S -35


MAT 1634
Dpa elastic (mt2)
Cross Section
16-S -35
-97.70 To 1257. %
Min Ratio
Max Ratio
TENDL Threshold 218.75 eV
JEFF3.3 Threshold 218.75 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
16-S -35


MAT 1634
Dpa inelastic (mt51-91)
16-S -35
Cross Section -100.0 To 35.11 %
Min Ratio
Max Ratio
TENDL Threshold 1.6177 MeV
JEFF3.3 Threshold 1.6177 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
16-S -35


MAT 1634 Dpa disappearance (mt102 -120) 16-S -35
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
78
16-S -35