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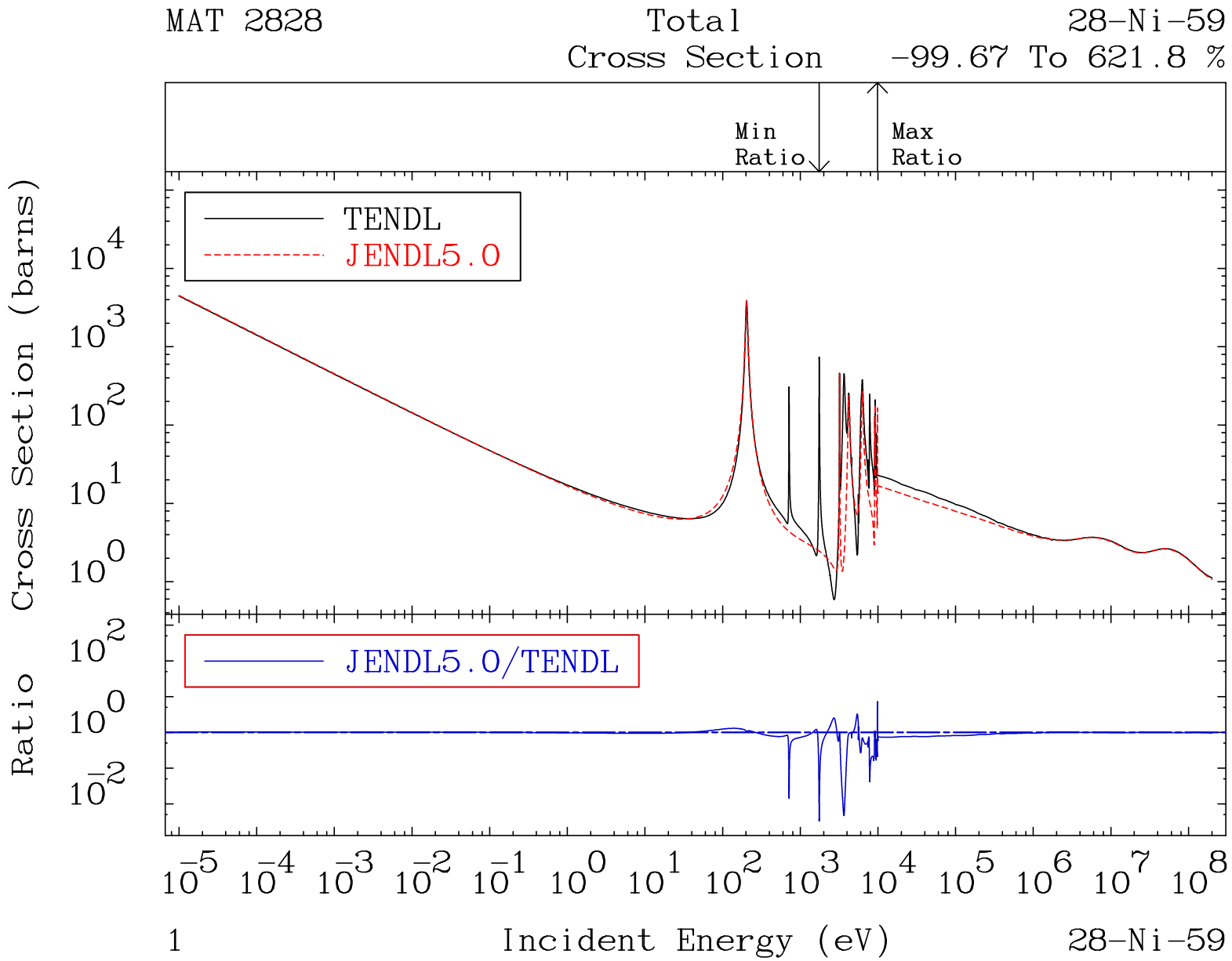
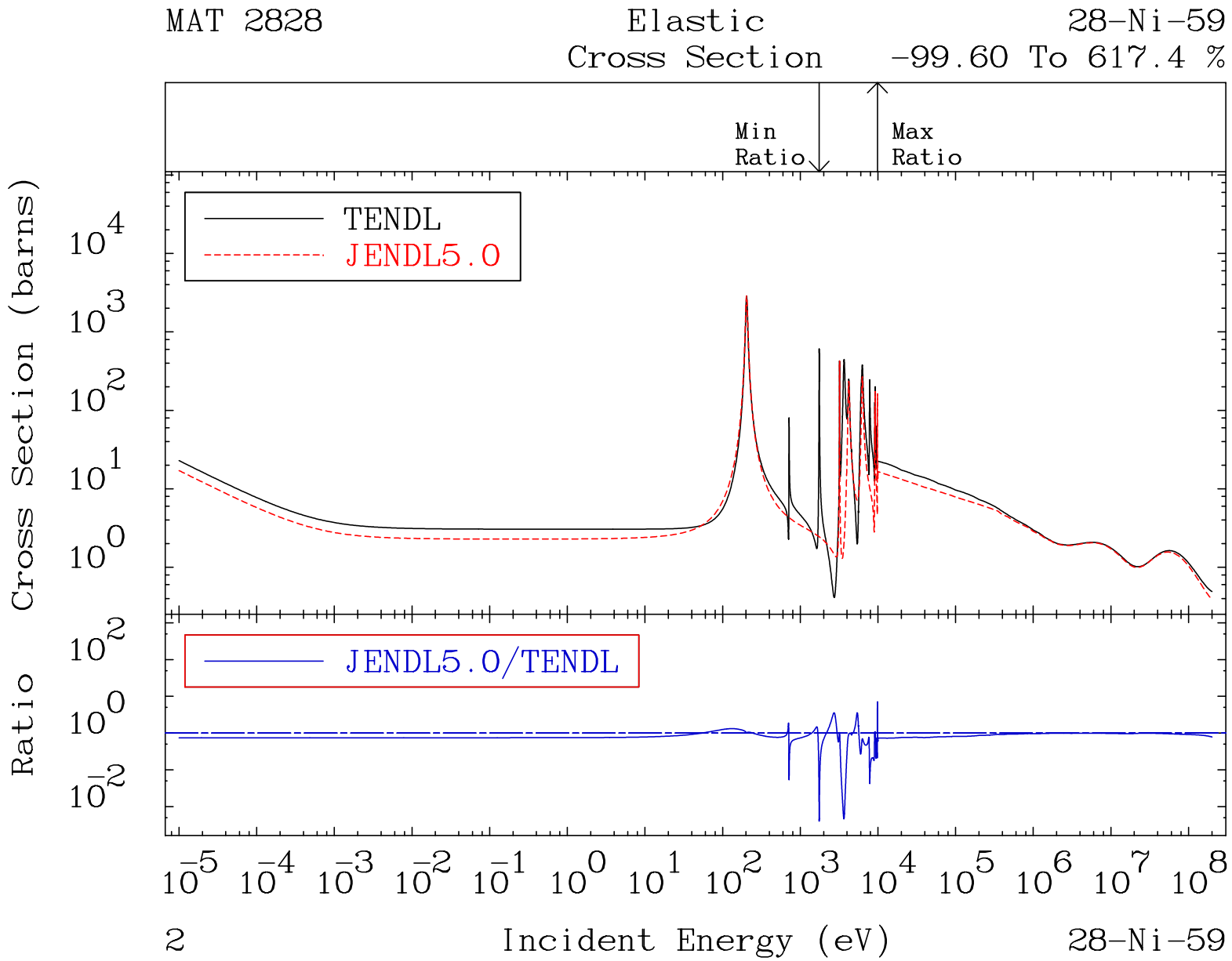
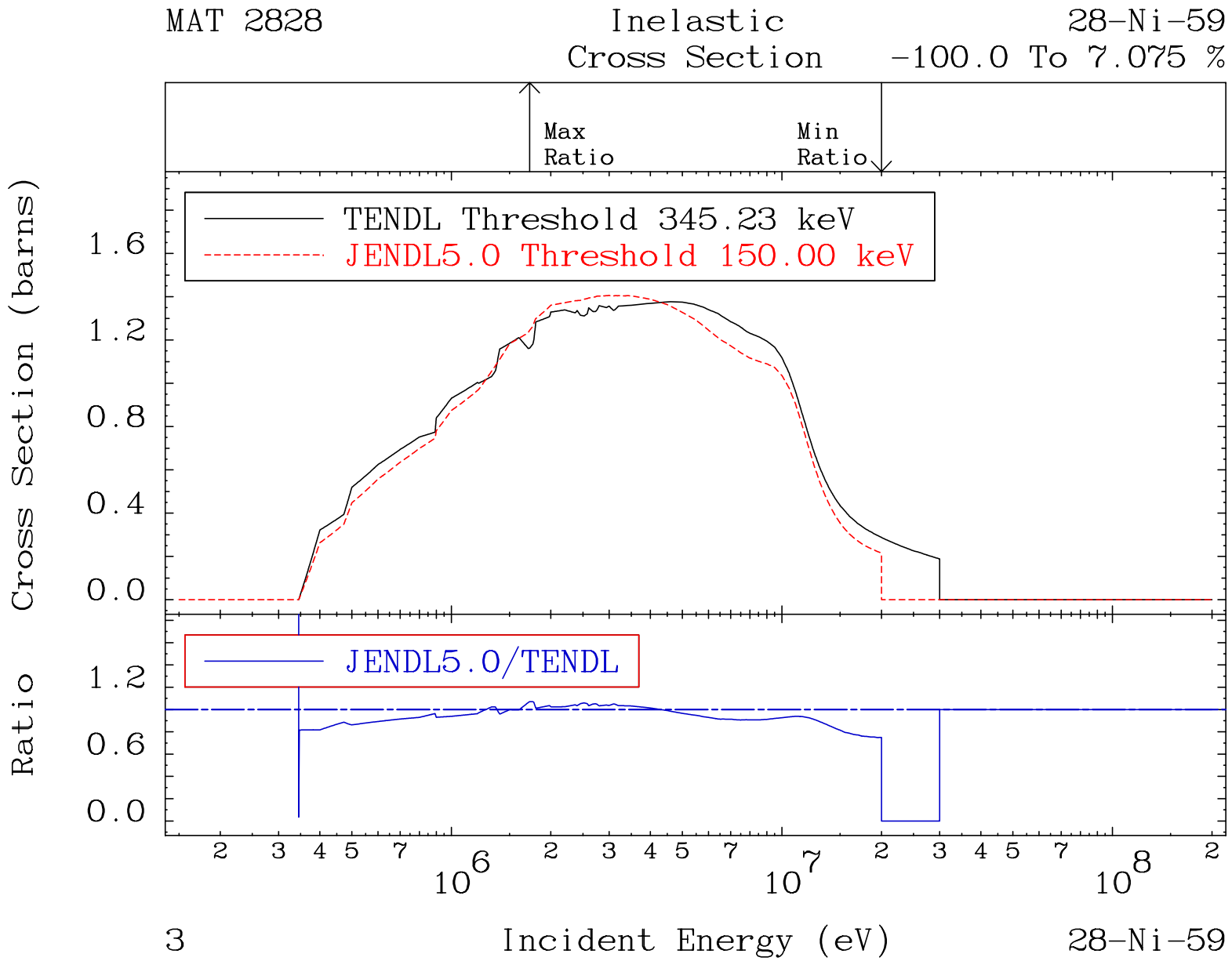
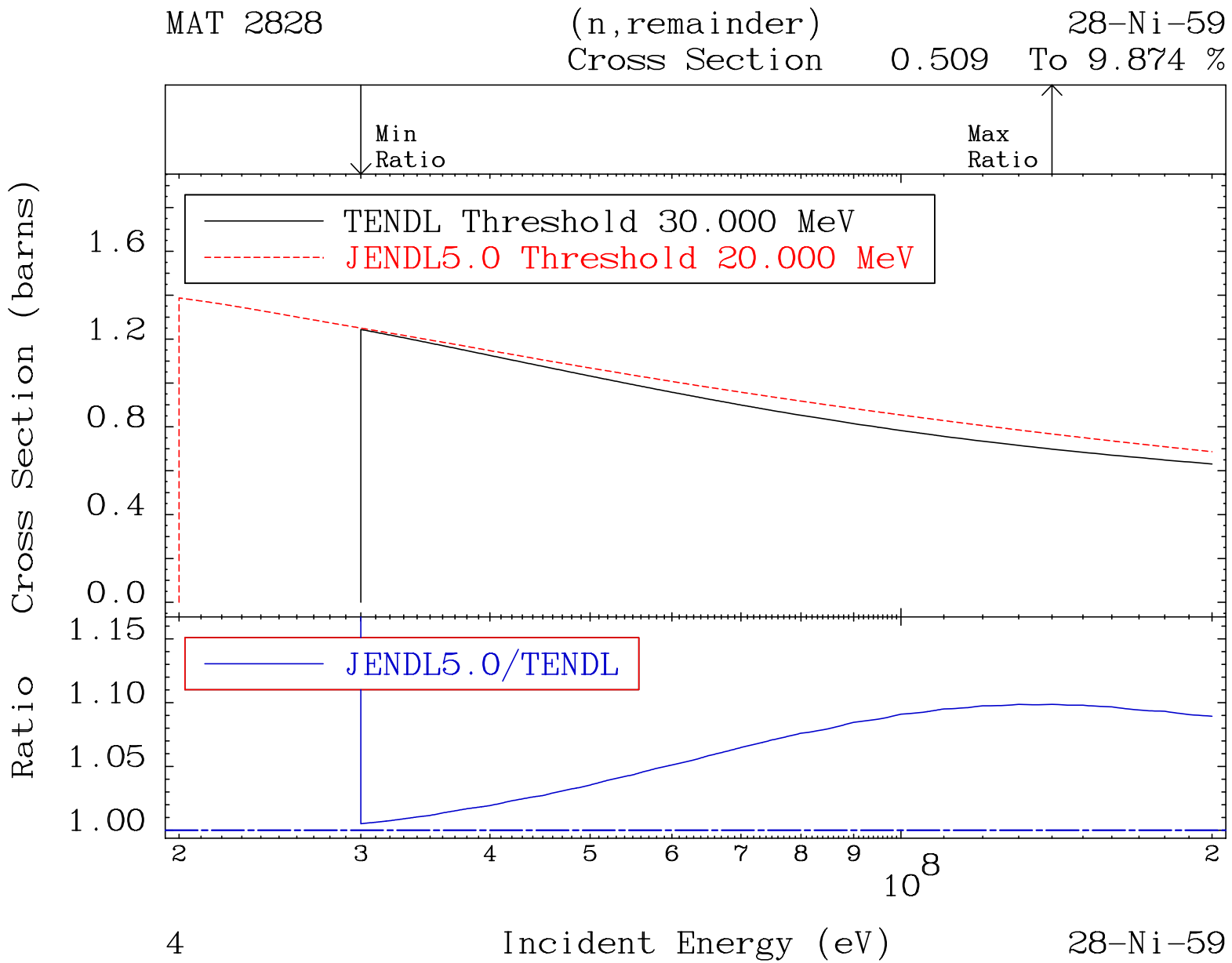
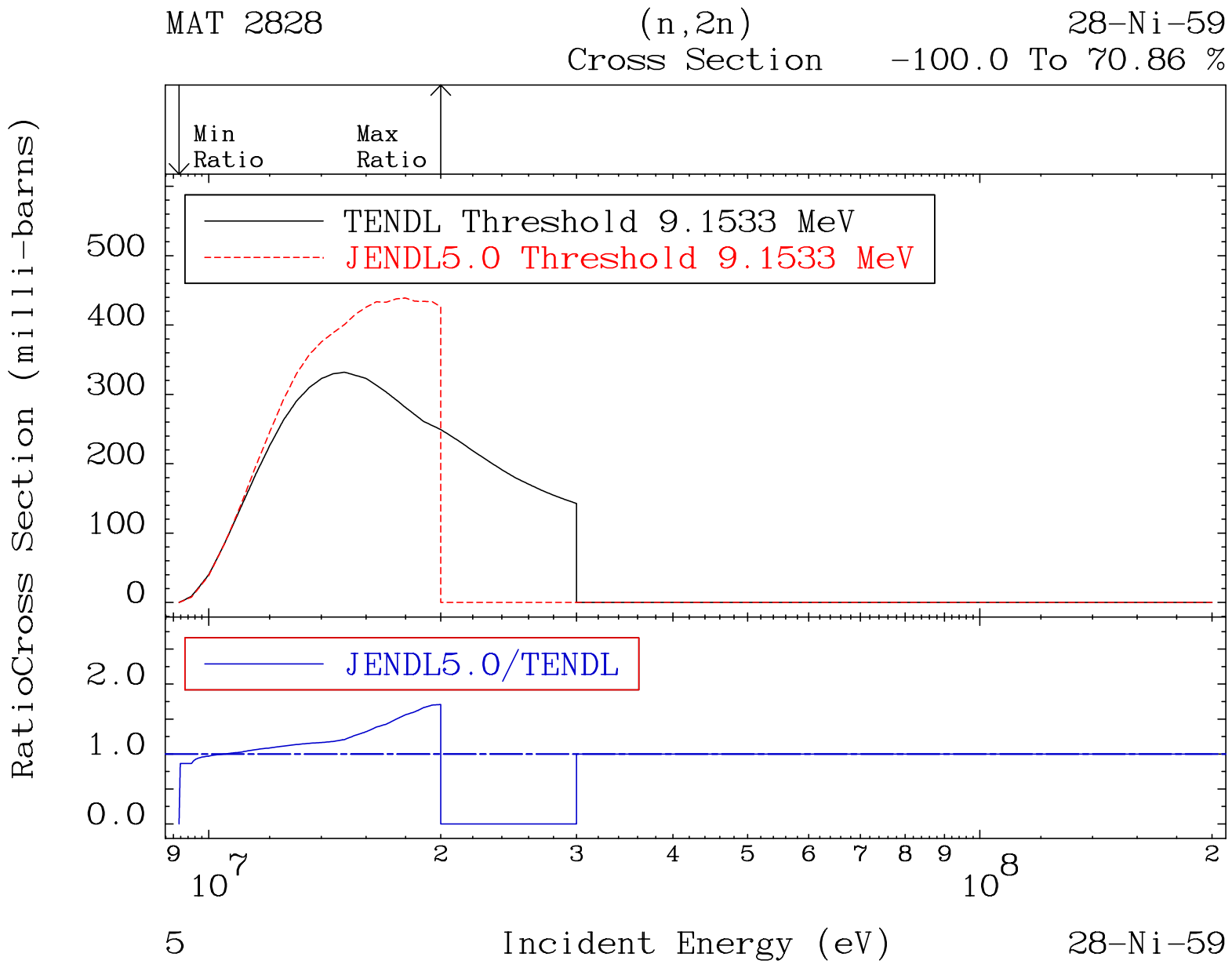
Press Mouse Button to Start

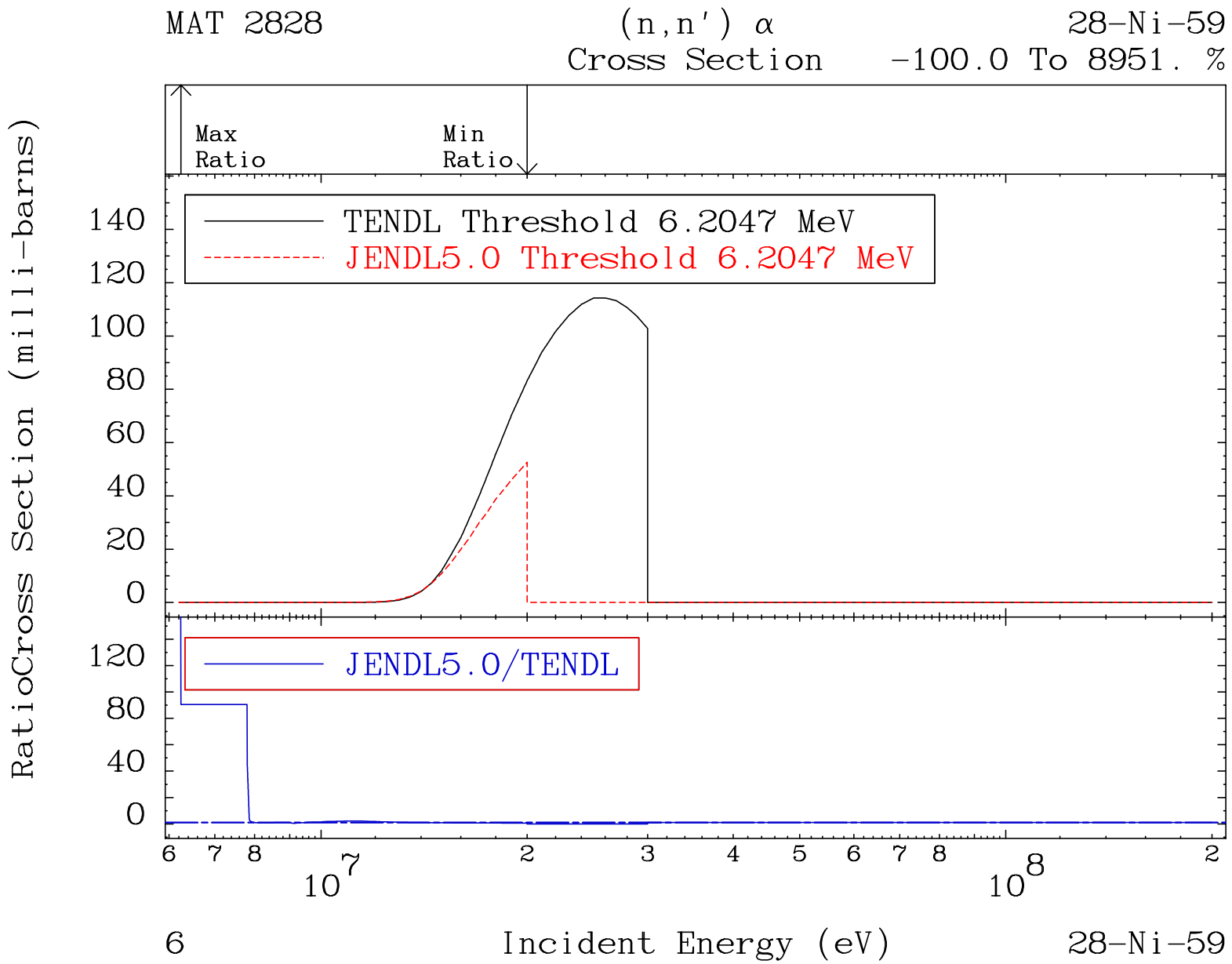

MAT 2828
Total
Cross Section
28-Ni-59
-99.67 To 621.8 %
Min
Ratio
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
28-Ni-59

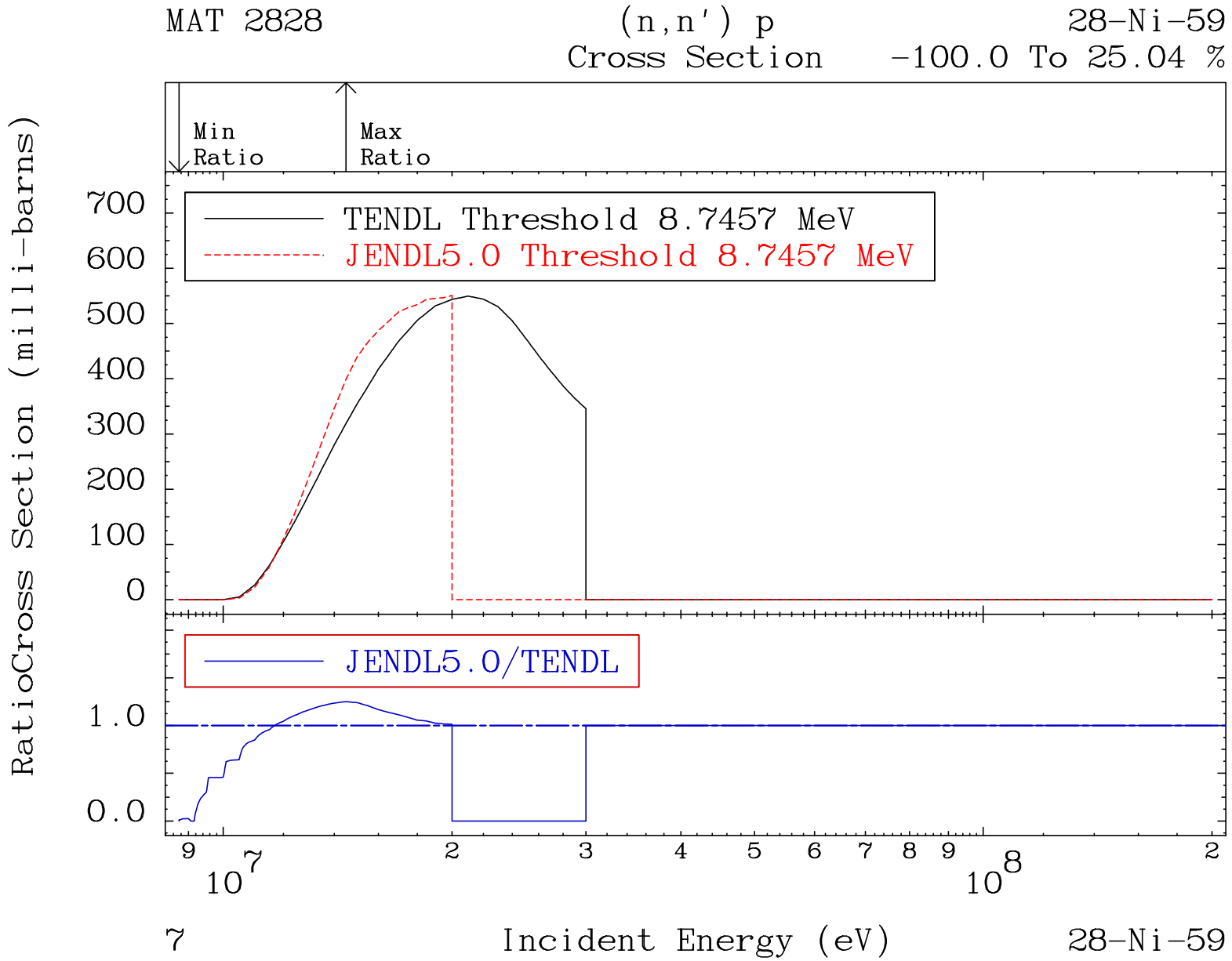

MAT 2828
Elastic
Cross Section
28-Ni-59
-99.60 To 617.4 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
28-Ni-59

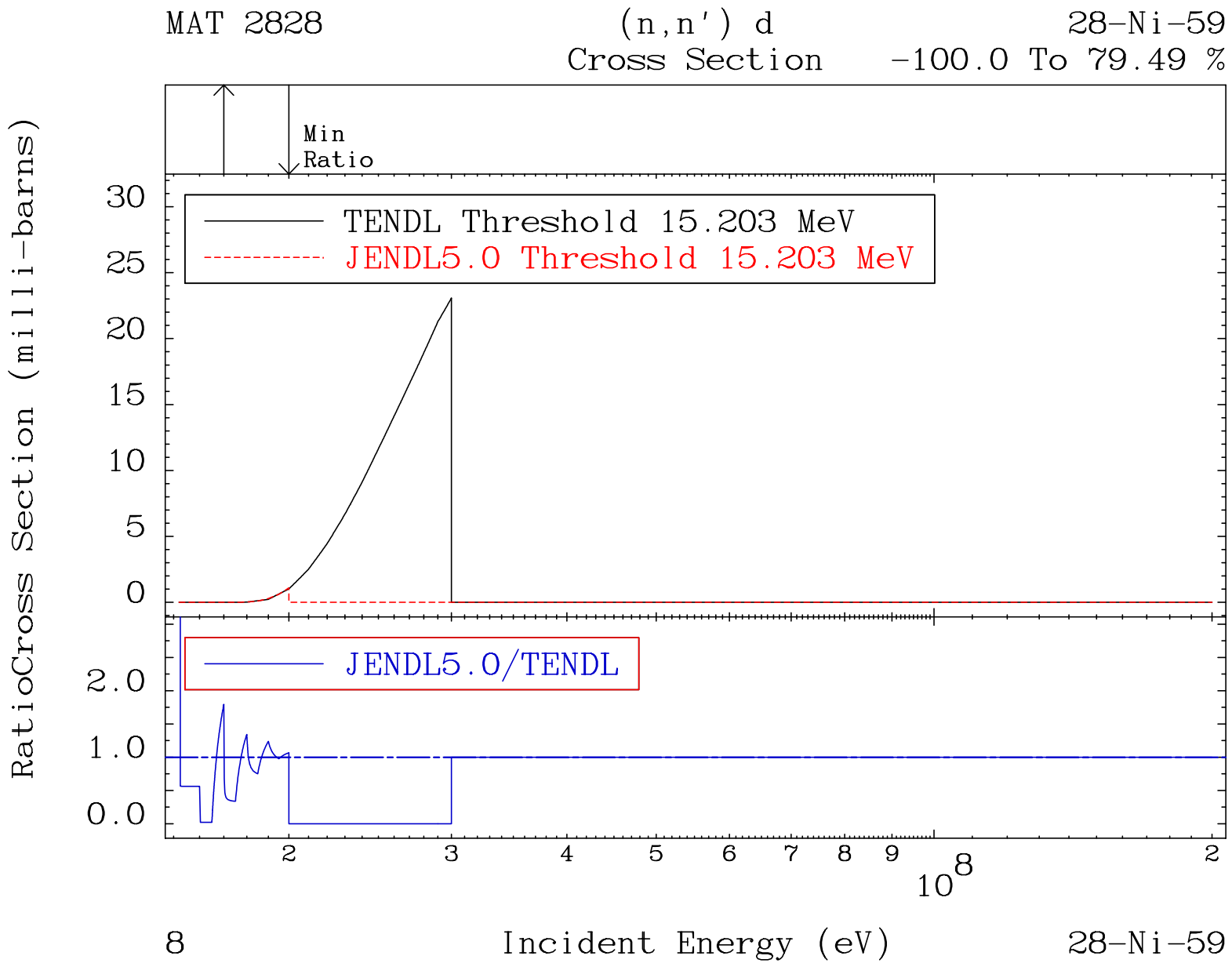

MAT 2828
Inelastic
Cross Section
28-Ni-59
-100.0 To 7.075 %
Max
Ratio
Min
Ratio
TENDL Threshold 345.23 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
3
Incident Energy (eV)
28-Ni-59

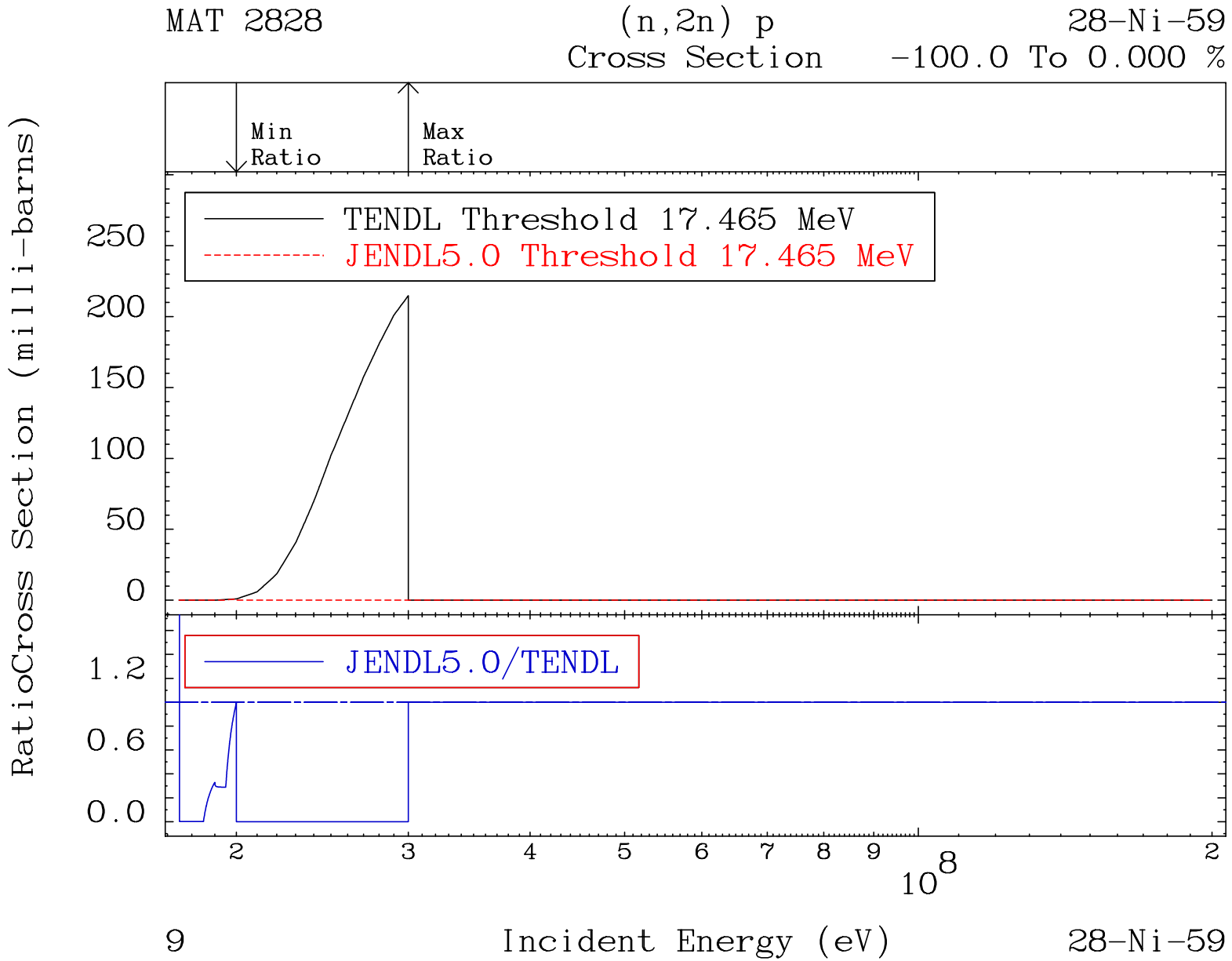

MAT 2828
(n,remainder)
28-Ni-59
Cross Section 0.509 To 9.874 %
Min Ratio
Max Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
28-Ni-59

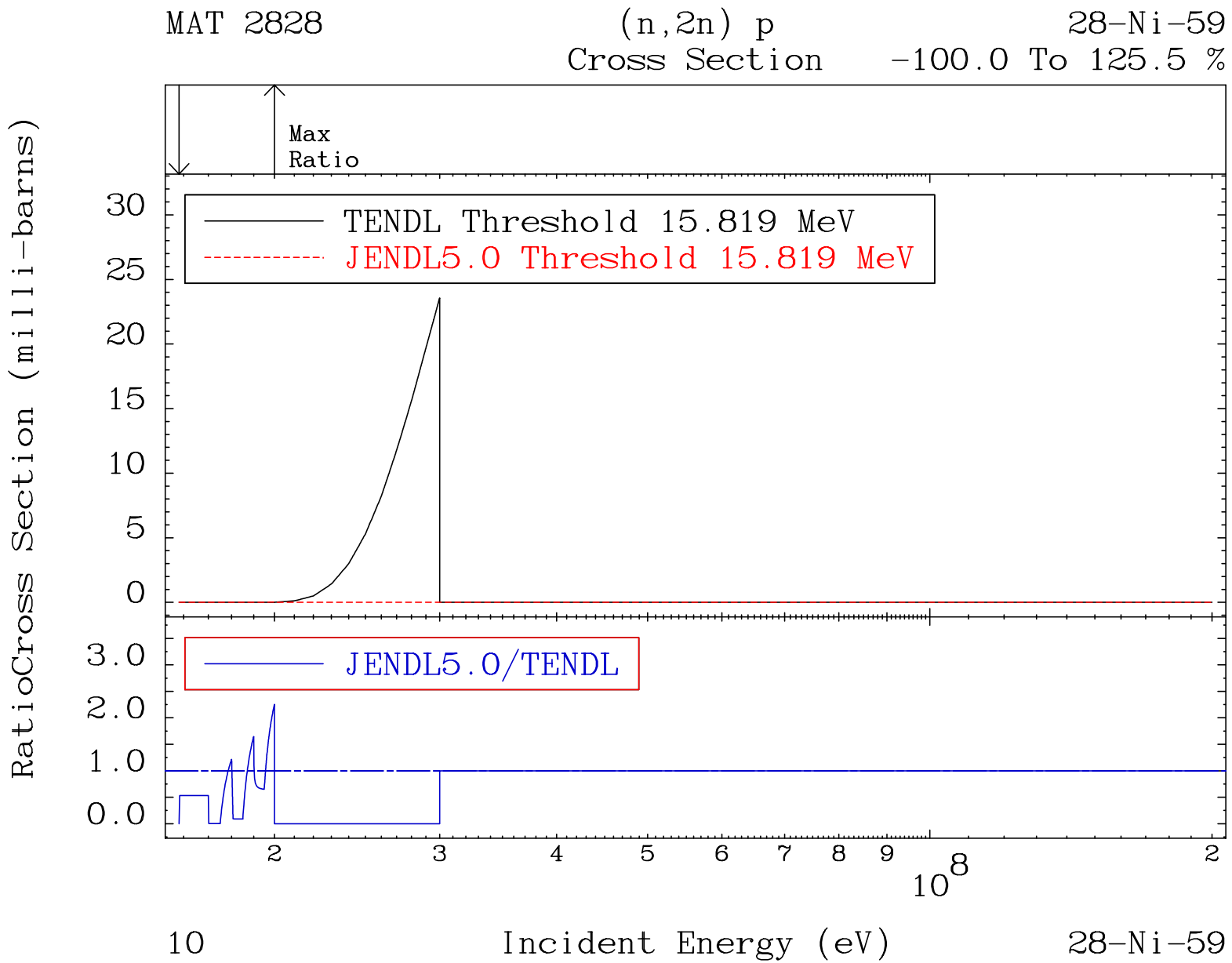

MAT 2828
(n,2n)
Cross Section
28-Ni-59
-100.0 To 70.86 %
Min Ratio
Max Ratio
TENDL Threshold 9.1533 MeV
JENDL5.0 Threshold 9.1533 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
28-Ni-59

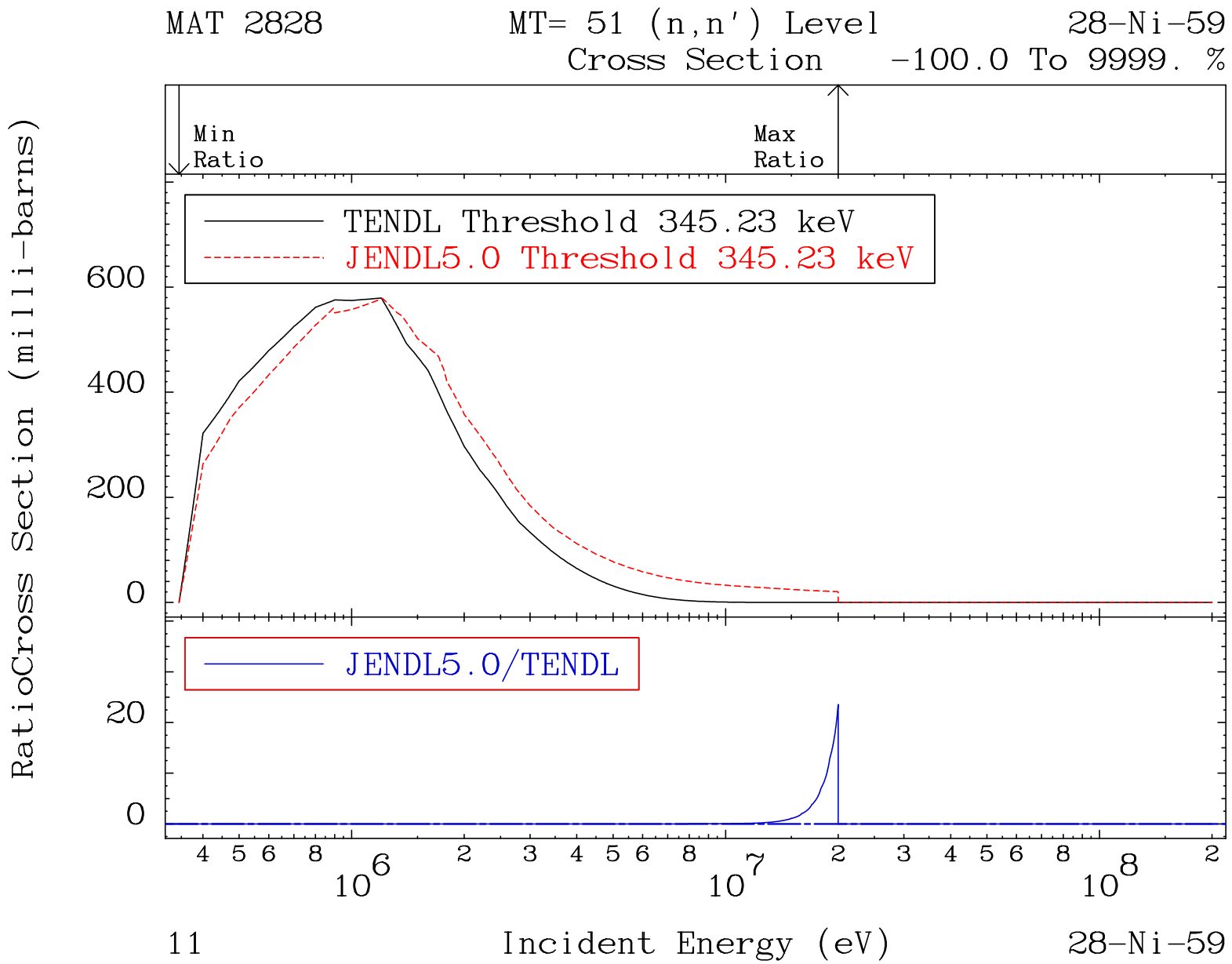

MAT 2828
(n,n') α
Cross Section
28-Ni-59
-100.0 To 8951. %
Max Ratio
Min Ratio
TENDL Threshold 6.2047 MeV
JENDL5.0 Threshold 6.2047 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
120
80
40
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
28-Ni-59

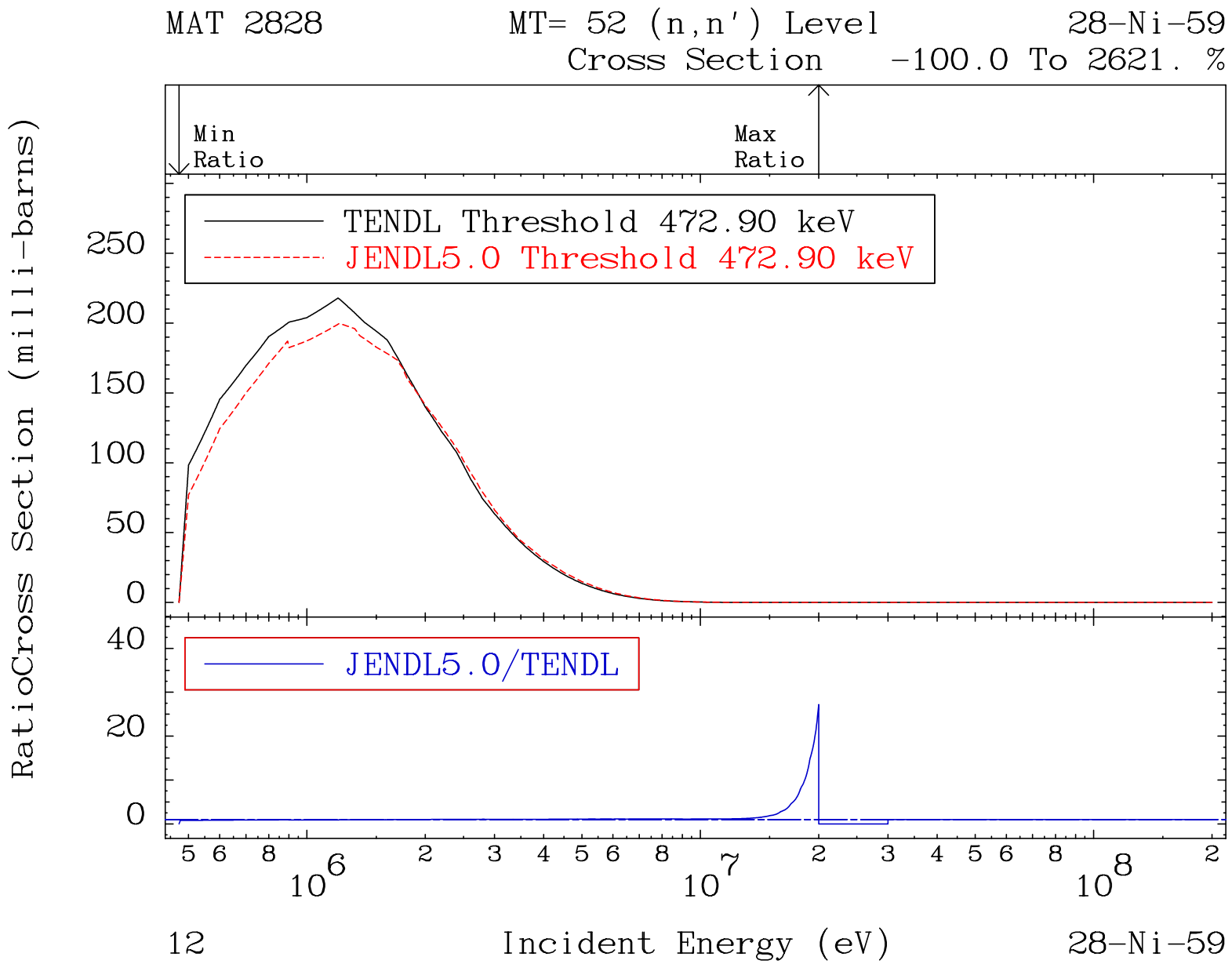

MAT 2828
(n,n') p
Cross Section
28-Ni-59
-100.0 To 25.04 %
Min Ratio
Max Ratio
TENDL Threshold 8.7457 MeV
JENDL5.0 Threshold 8.7457 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
28-Ni-59

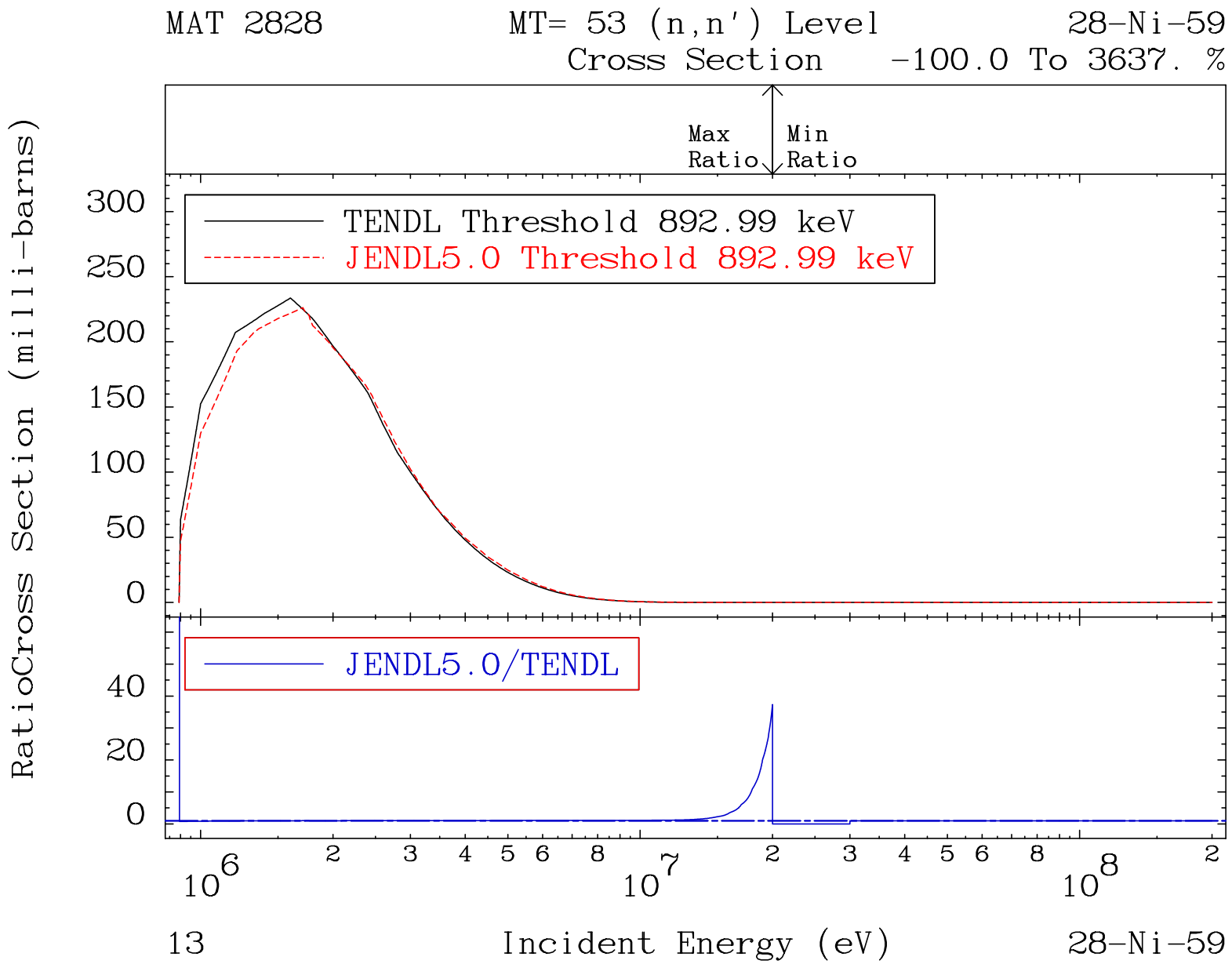

MAT 2828
(n,n') d
Cross Section
28-Ni-59
-100.0 To 79.49 %
Min
Ratio
TENDL Threshold 15.203 MeV
JENDL5.0 Threshold 15.203 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
28-Ni-59

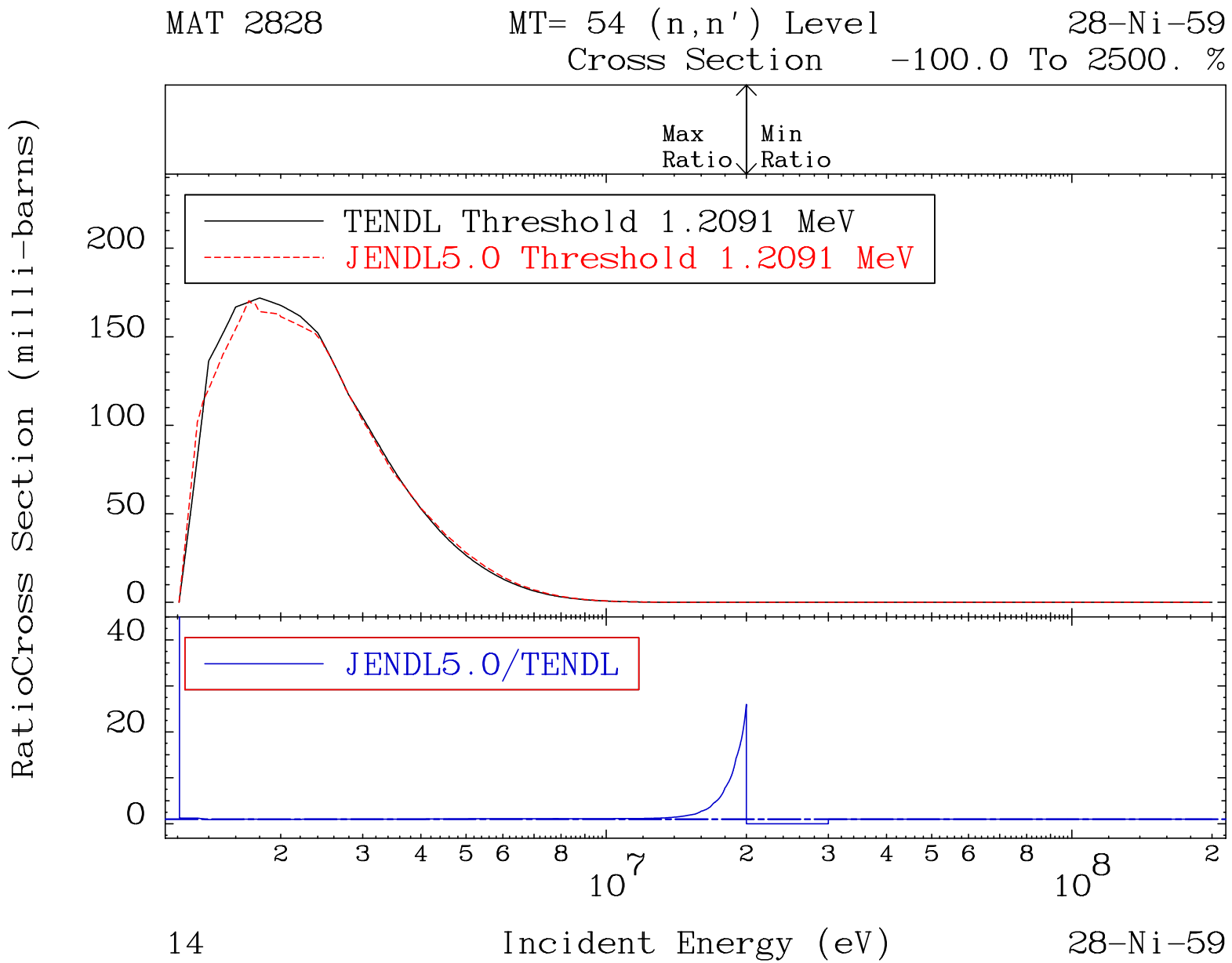

MAT 2828
(n,2n) p
Cross Section
28-Ni-59
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 17.465 MeV
JENDL5.0 Threshold 17.465 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
2
10^8
9
Incident Energy (eV)
28-Ni-59

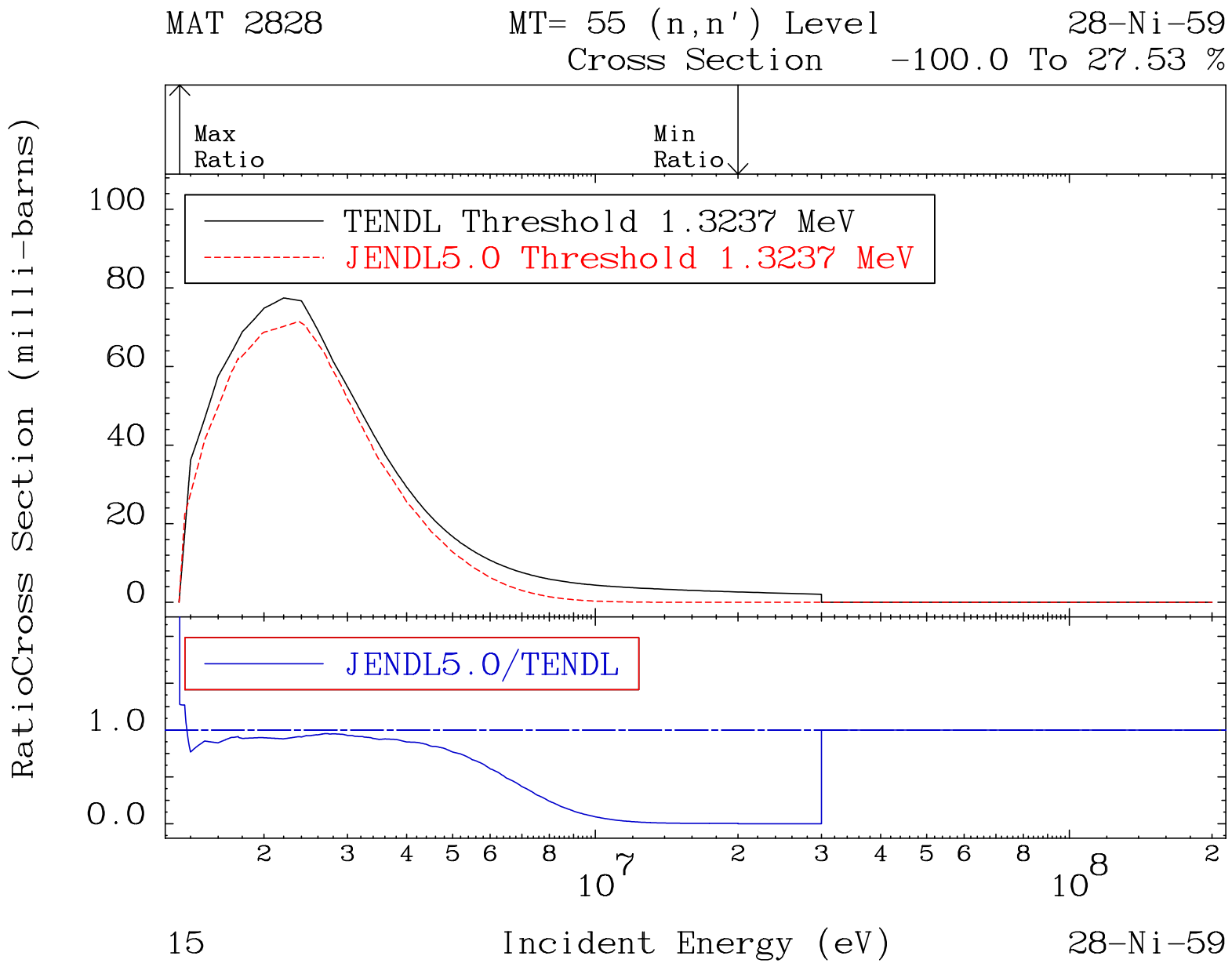

MAT 2828
(n,2n) p
Cross Section
28-Ni-59
-100.0 To 125.5 %
Max
Ratio
TENDL Threshold 15.819 MeV
JENDL5.0 Threshold 15.819 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
2
10^8
10
Incident Energy (eV)
28-Ni-59

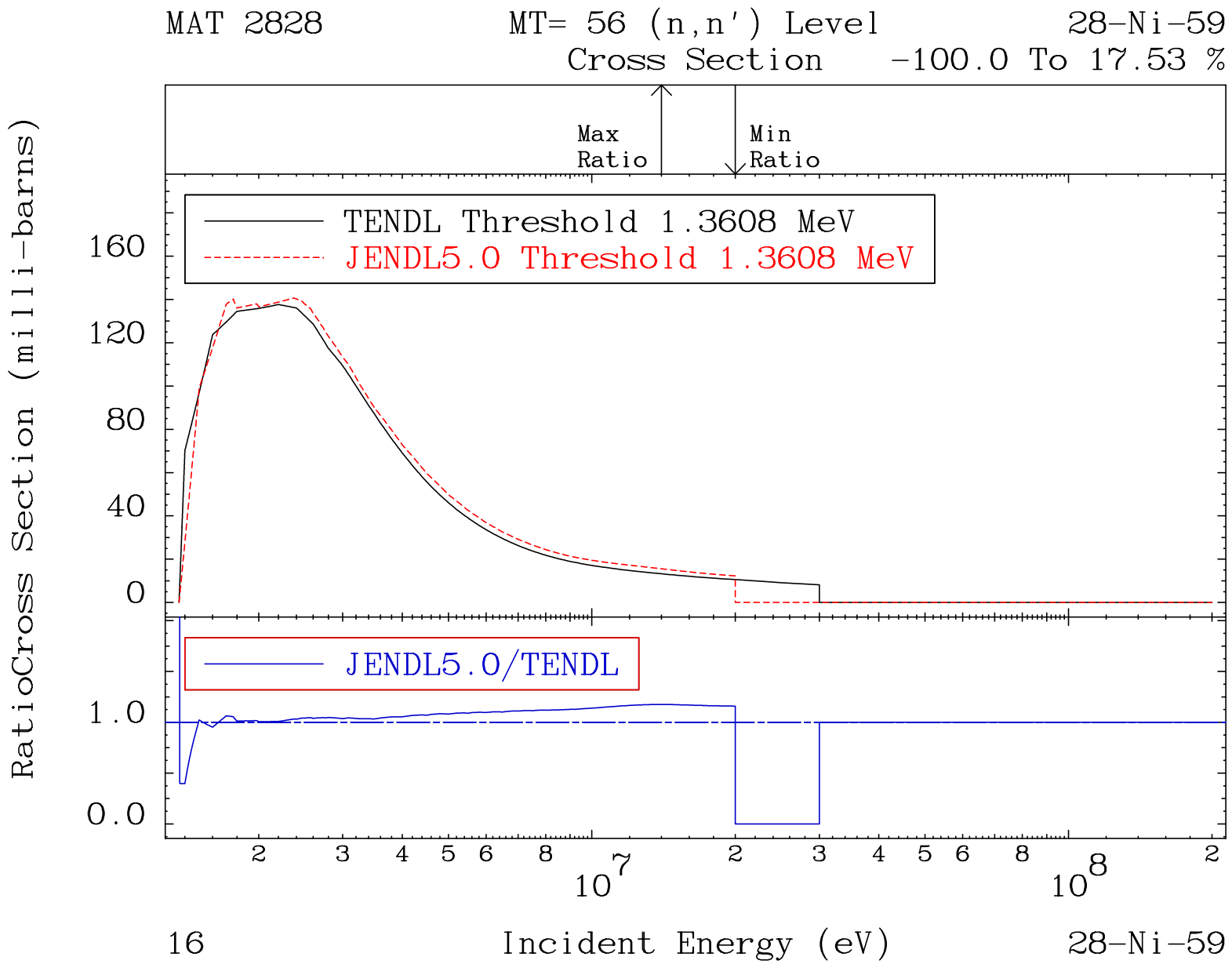

MAT 2828
MT= 51 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 345.23 keV
JENDL5.0 Threshold 345.23 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
400
200
0
20
0
4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
28-Ni-59

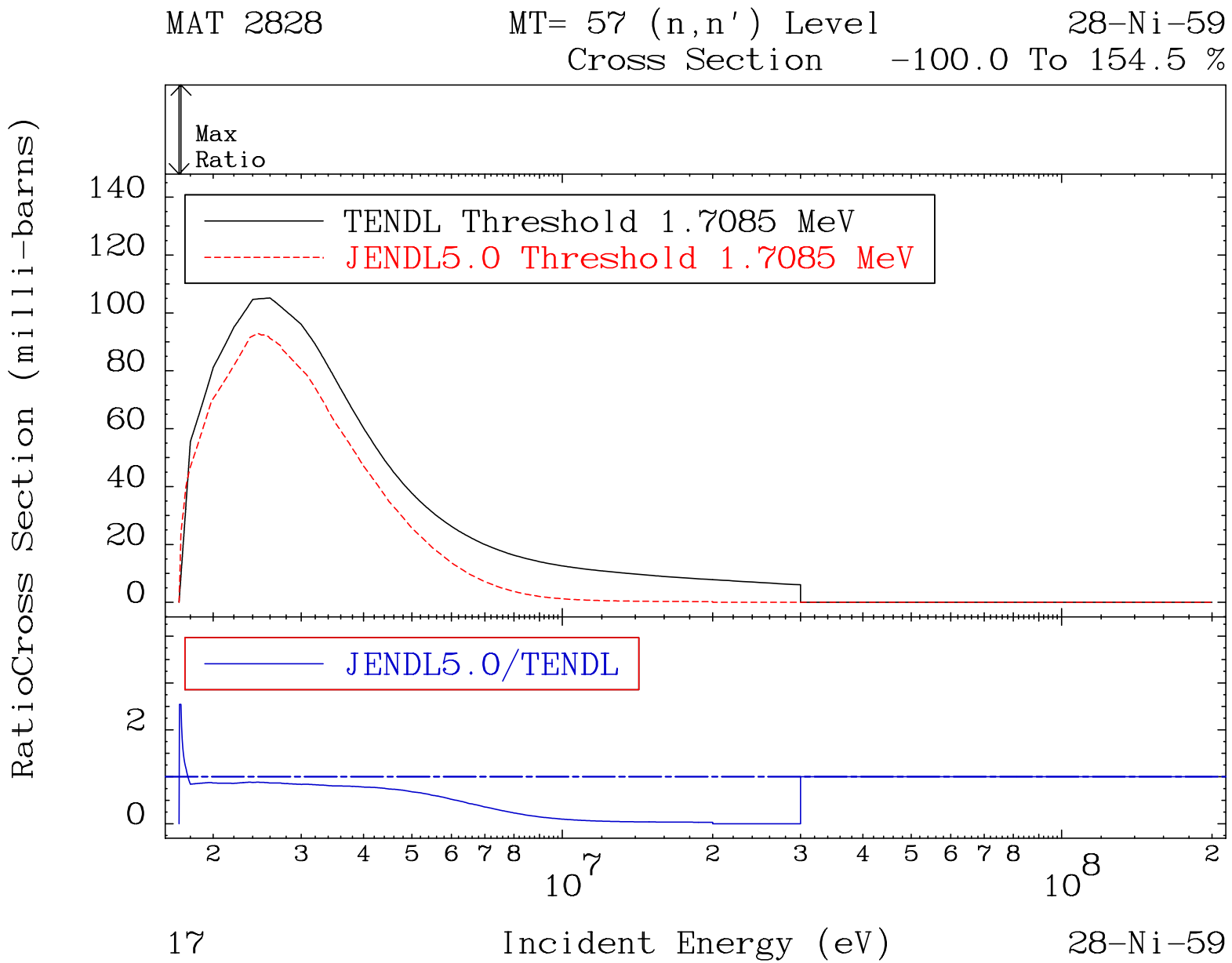

MAT 2828
MT= 52 (n,n') Level
28-Ni-59
Cross Section -100.0 To 2621. %
Min Ratio
Max Ratio
TENDL Threshold 472.90 keV
JENDL5.0 Threshold 472.90 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
40
20
0
5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
28-Ni-59

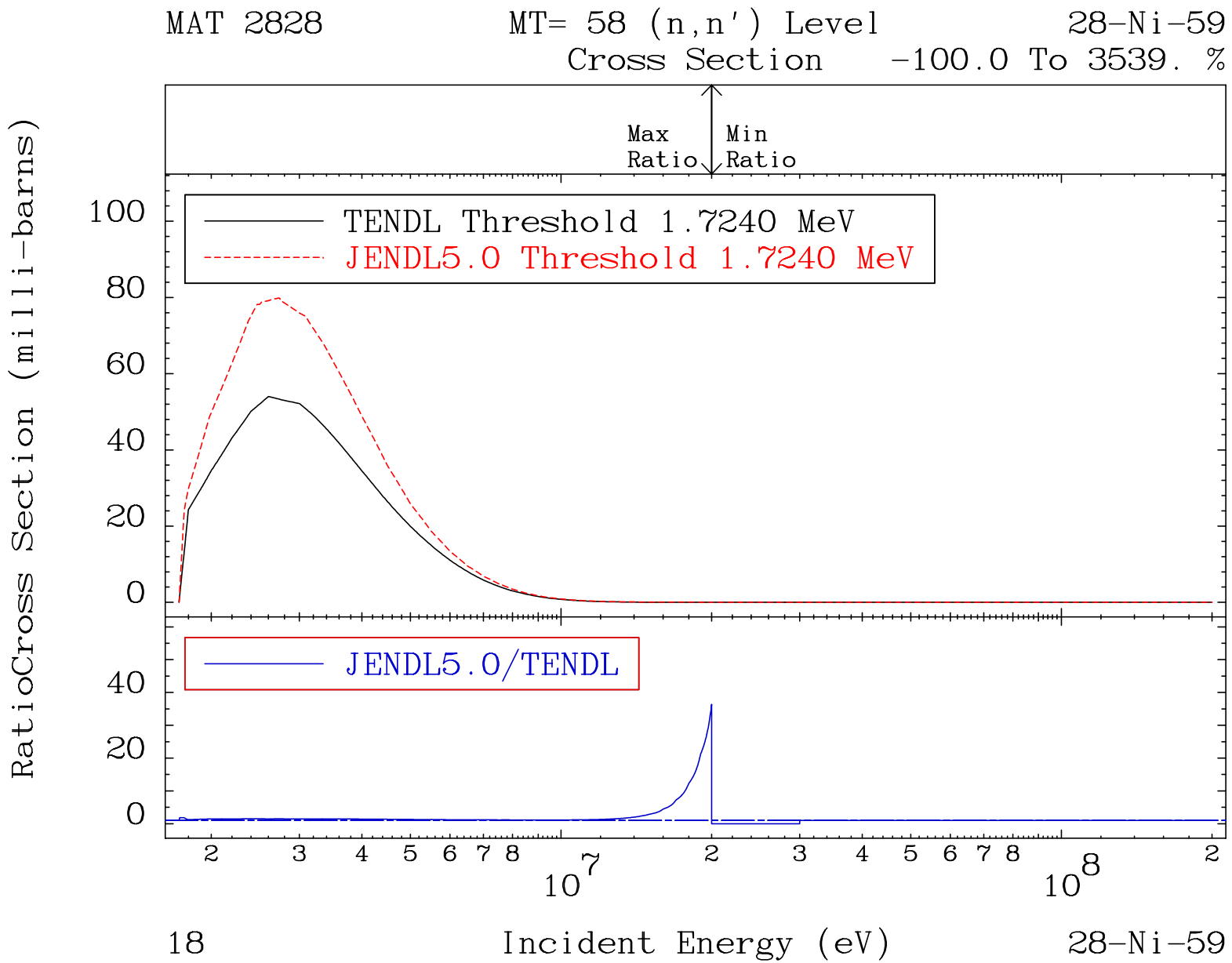

MAT 2828
MT= 53 (n,n') Level
28-Ni-59
Cross Section -100.0 To 3637. %
Max Ratio
Min Ratio
TENDL Threshold 892.99 keV
JENDL5.0 Threshold 892.99 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
40
20
0
10^6
10^7
10^8
2 3 4 5 6 8
13
Incident Energy (eV)
28-Ni-59

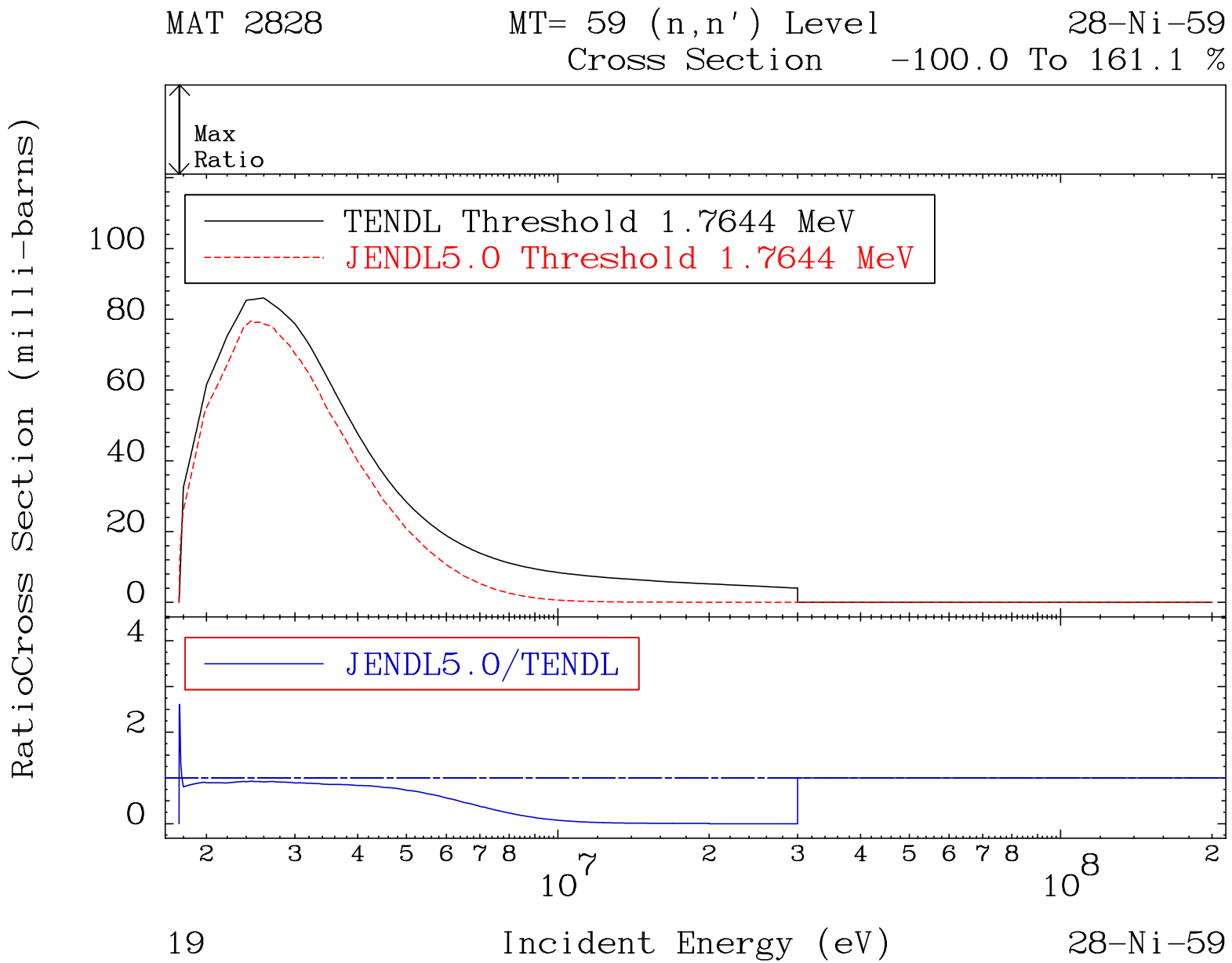

MAT 2828
MT= 54 (n,n') Level
28-Ni-59
Cross Section -100.0 To 2500. %
Max Ratio
Min Ratio
TENDL Threshold 1.2091 MeV
JENDL5.0 Threshold 1.2091 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
40
20
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
14
Incident Energy (eV)
28-Ni-59

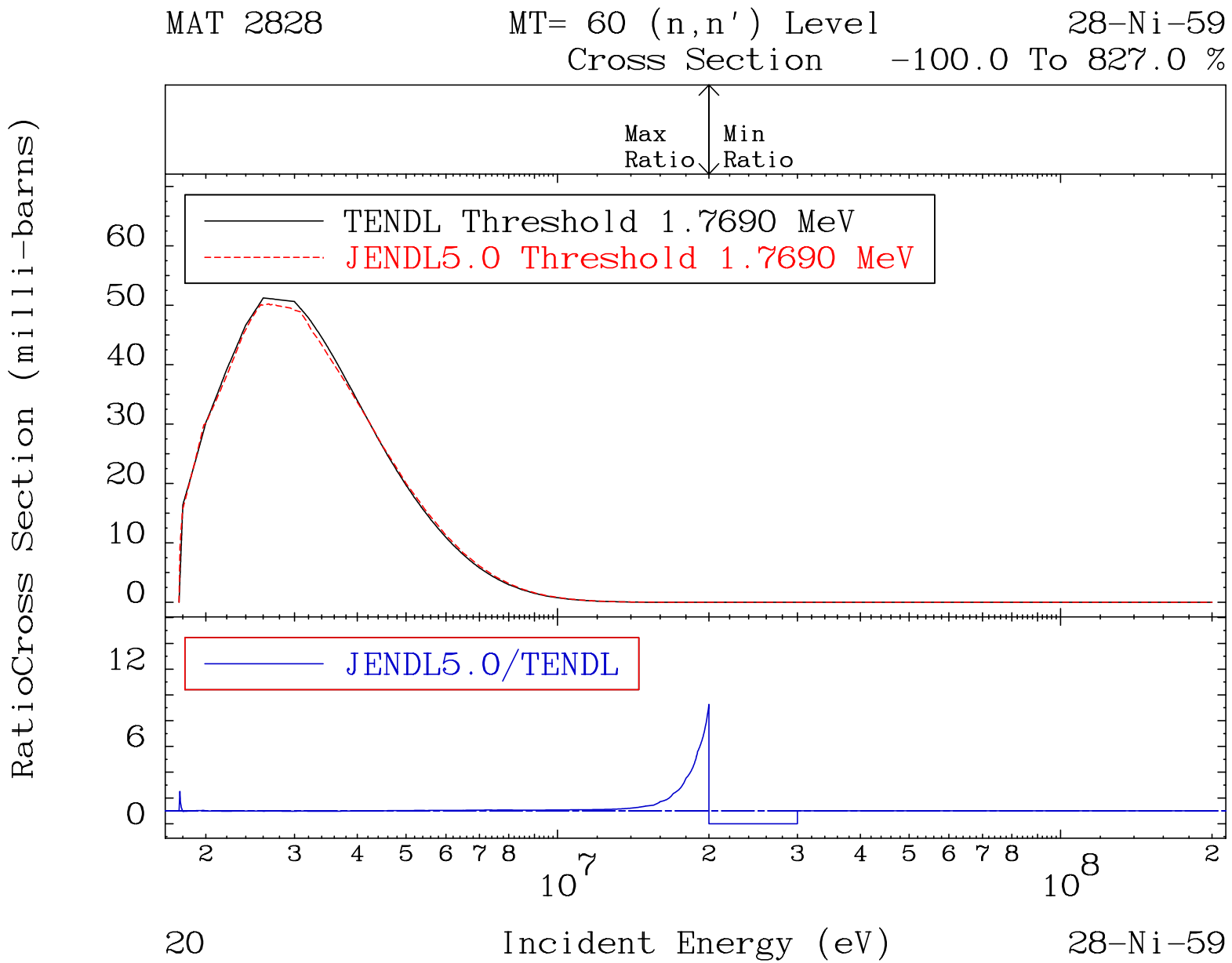

MAT 2828
MT= 55 (n,n') Level
28-Ni-59
Cross Section
-100.0 To 27.53 %
Max Ratio
Min Ratio
TENDL Threshold 1.3237 MeV
JENDL5.0 Threshold 1.3237 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
28-Ni-59

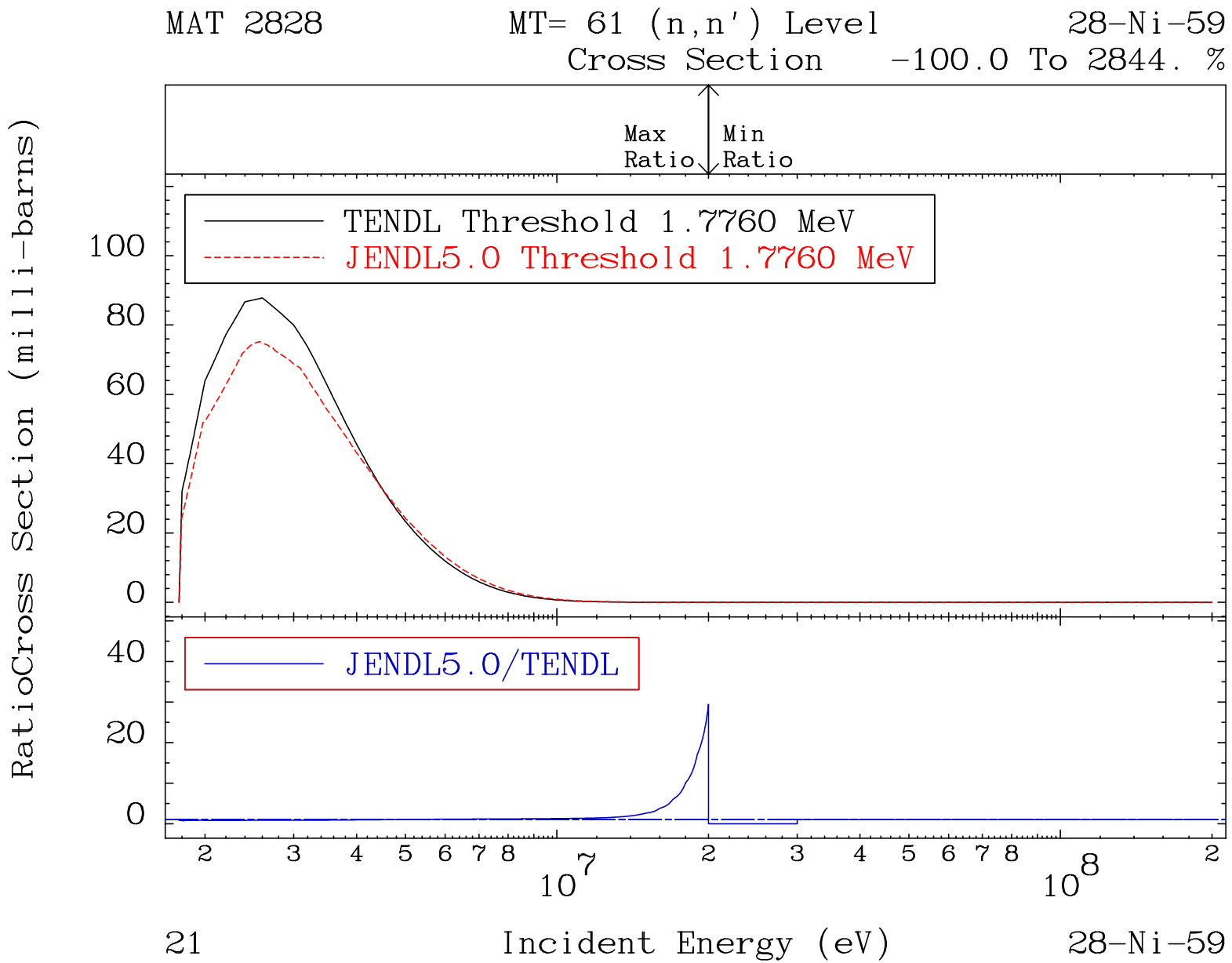

MAT 2828
MT= 56 (n,n') Level
28-Ni-59
Cross Section -100.0 To 17.53 %
Max Ratio
Min Ratio
TENDL Threshold 1.3608 MeV
JENDL5.0 Threshold 1.3608 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
28-Ni-59

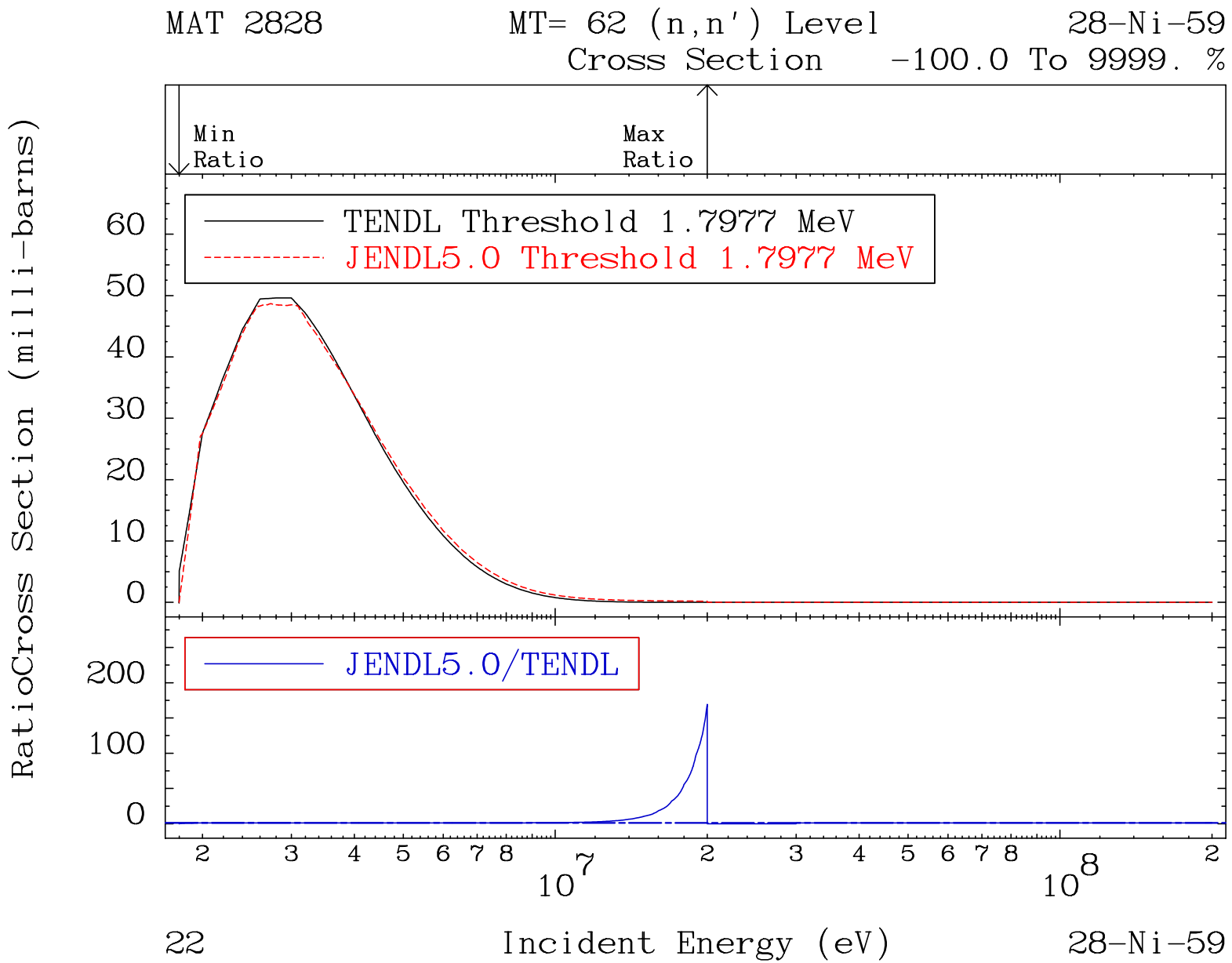

MAT 2828
MT= 57 (n,n') Level
28-Ni-59
Cross Section
-100.0 To 154.5 %
Max
Ratio
140
120
100
80
60
40
20
0
TENDL Threshold 1.7085 MeV
JENDL5.0 Threshold 1.7085 MeV
JENDL5.0/TENDL
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
17
Incident Energy (eV)
28-Ni-59

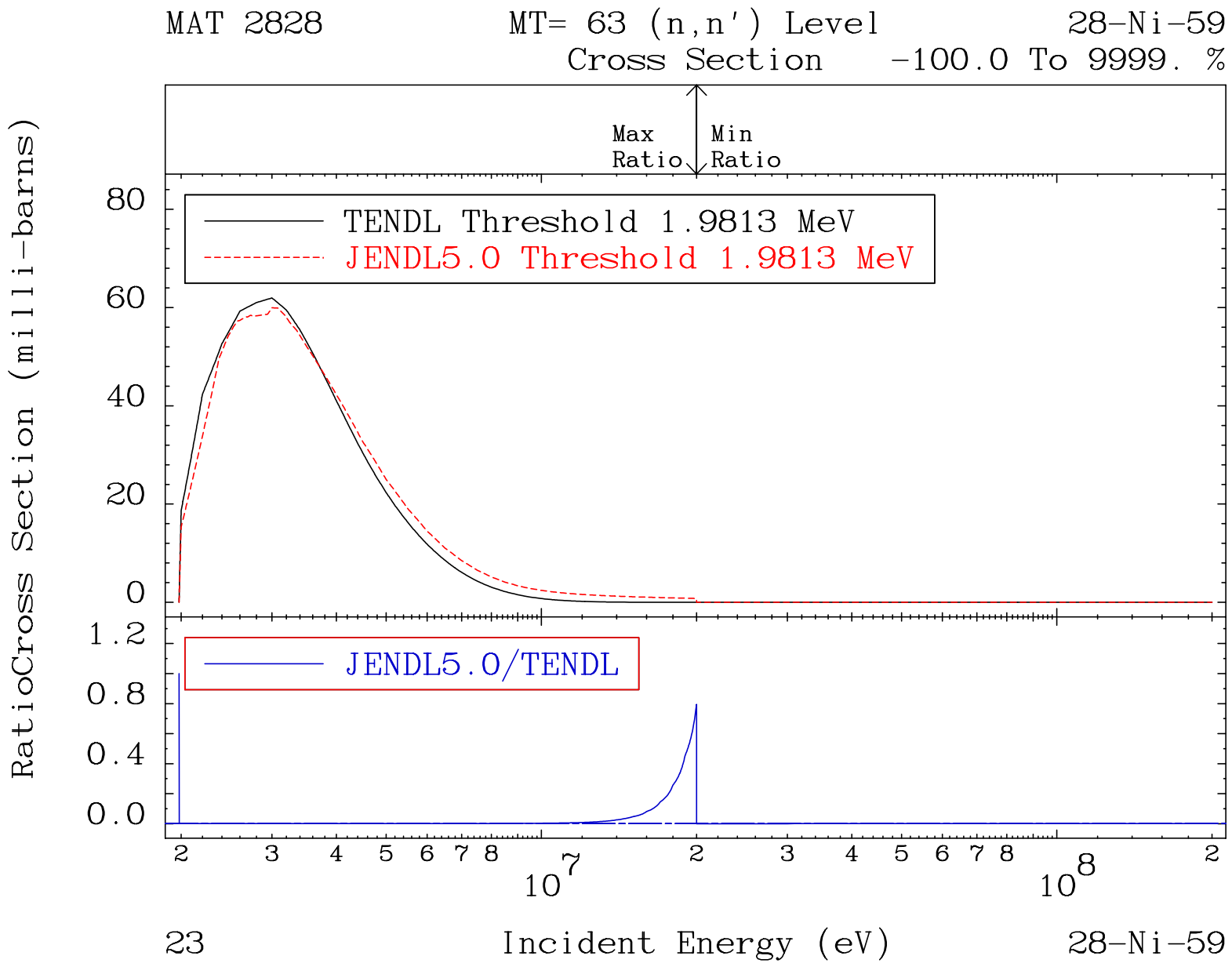

MAT 2828
MT= 58 (n,n') Level
28-Ni-59
Cross Section -100.0 To 3539. %
Max Ratio
Min Ratio
TENDL Threshold 1.7240 MeV
JENDL5.0 Threshold 1.7240 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
28-Ni-59

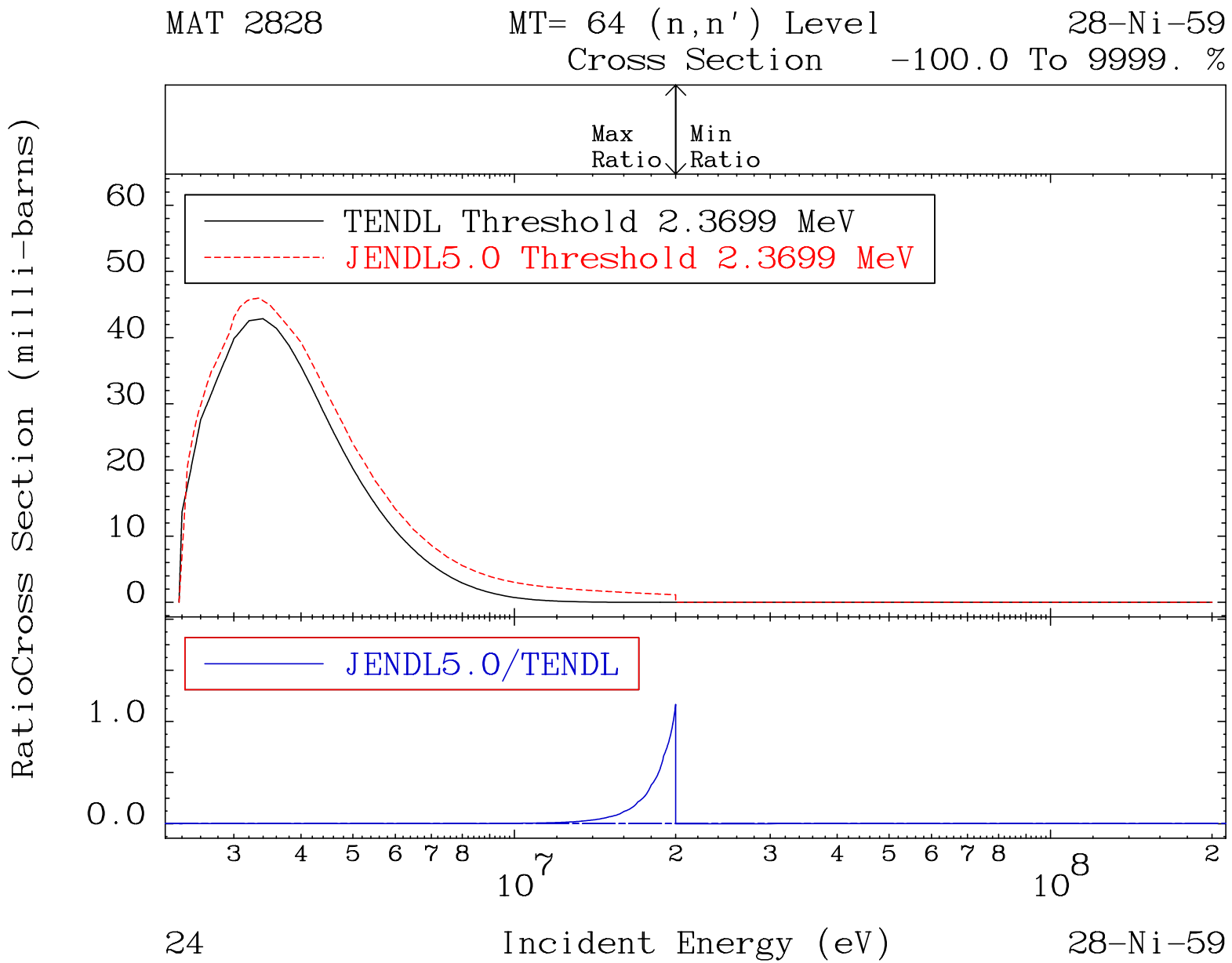

MAT 2828
MT= 59 (n,n') Level
28-Ni-59
Cross Section -100.0 To 161.1 %
Max
Ratio
TENDL Threshold 1.7644 MeV
JENDL5.0 Threshold 1.7644 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
4
2
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
28-Ni-59

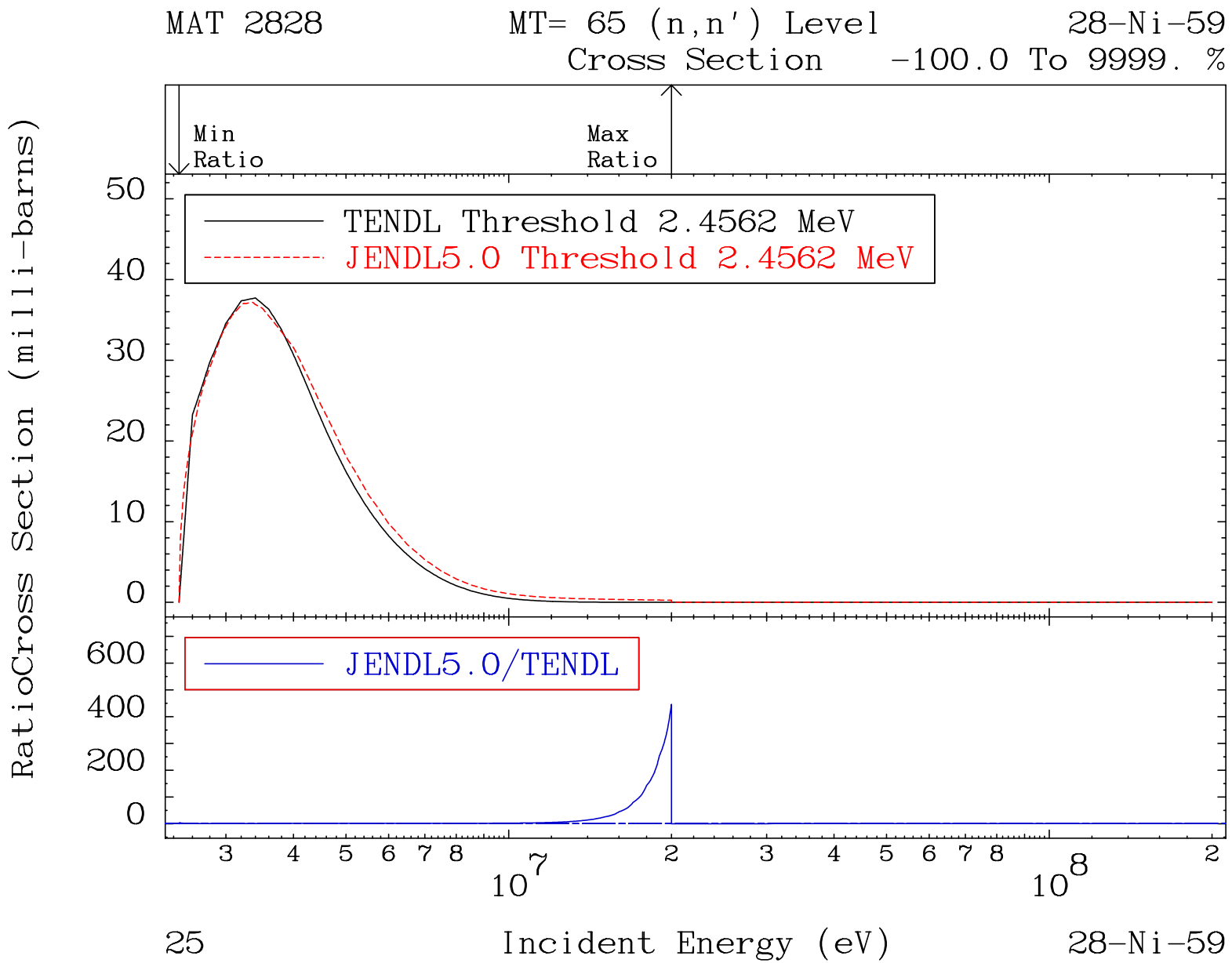

MAT 2828
MT= 60 (n,n') Level
28-Ni-59
Cross Section -100.0 To 827.0 %
Max Ratio
Min Ratio
TENDL Threshold 1.7690 MeV
JENDL5.0 Threshold 1.7690 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
12
6
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
28-Ni-59

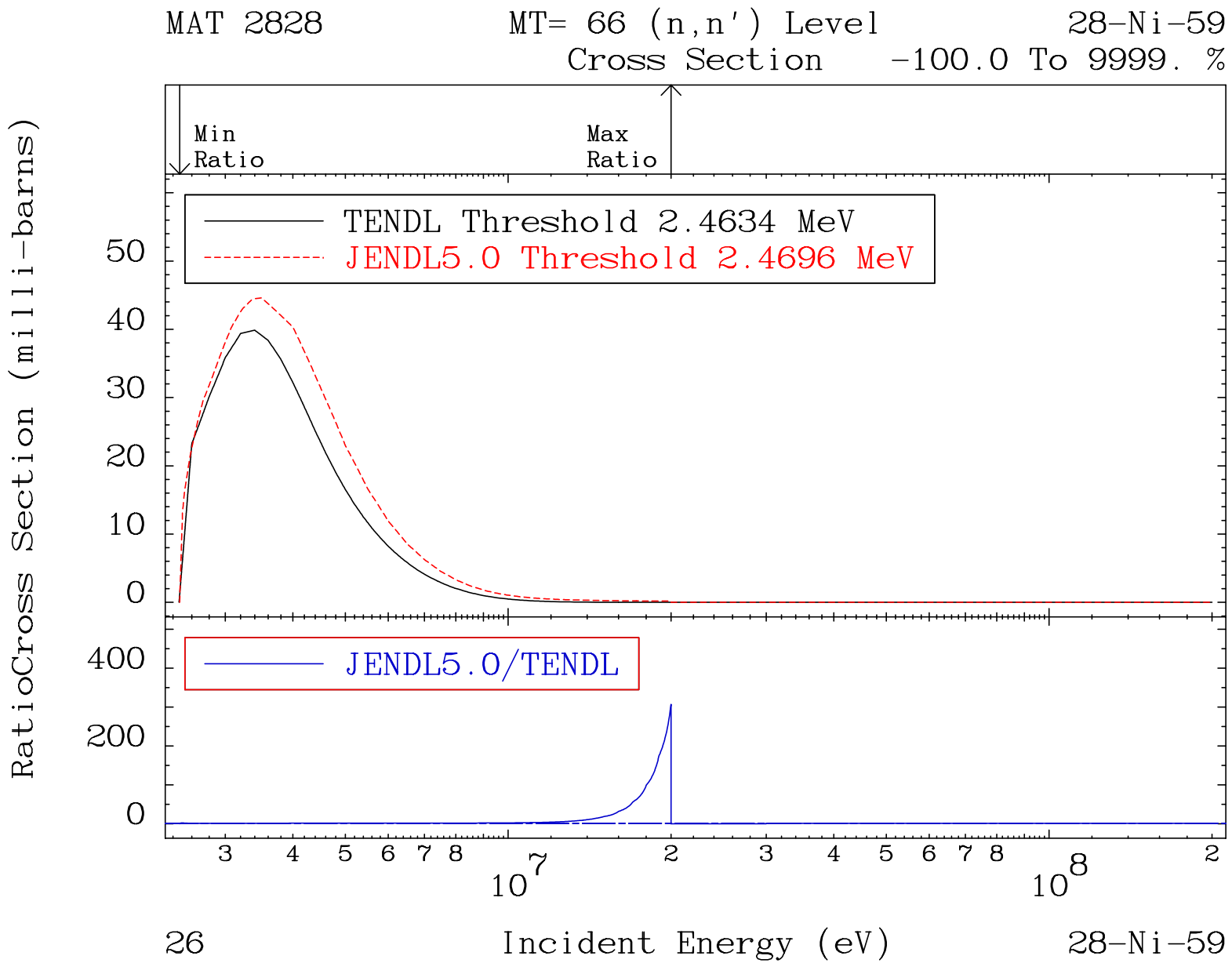

MAT 2828
MT= 61 (n,n') Level
28-Ni-59
Cross Section -100.0 To 2844. %
Max Ratio
Min Ratio
TENDL Threshold 1.7760 MeV
JENDL5.0 Threshold 1.7760 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
28-Ni-59

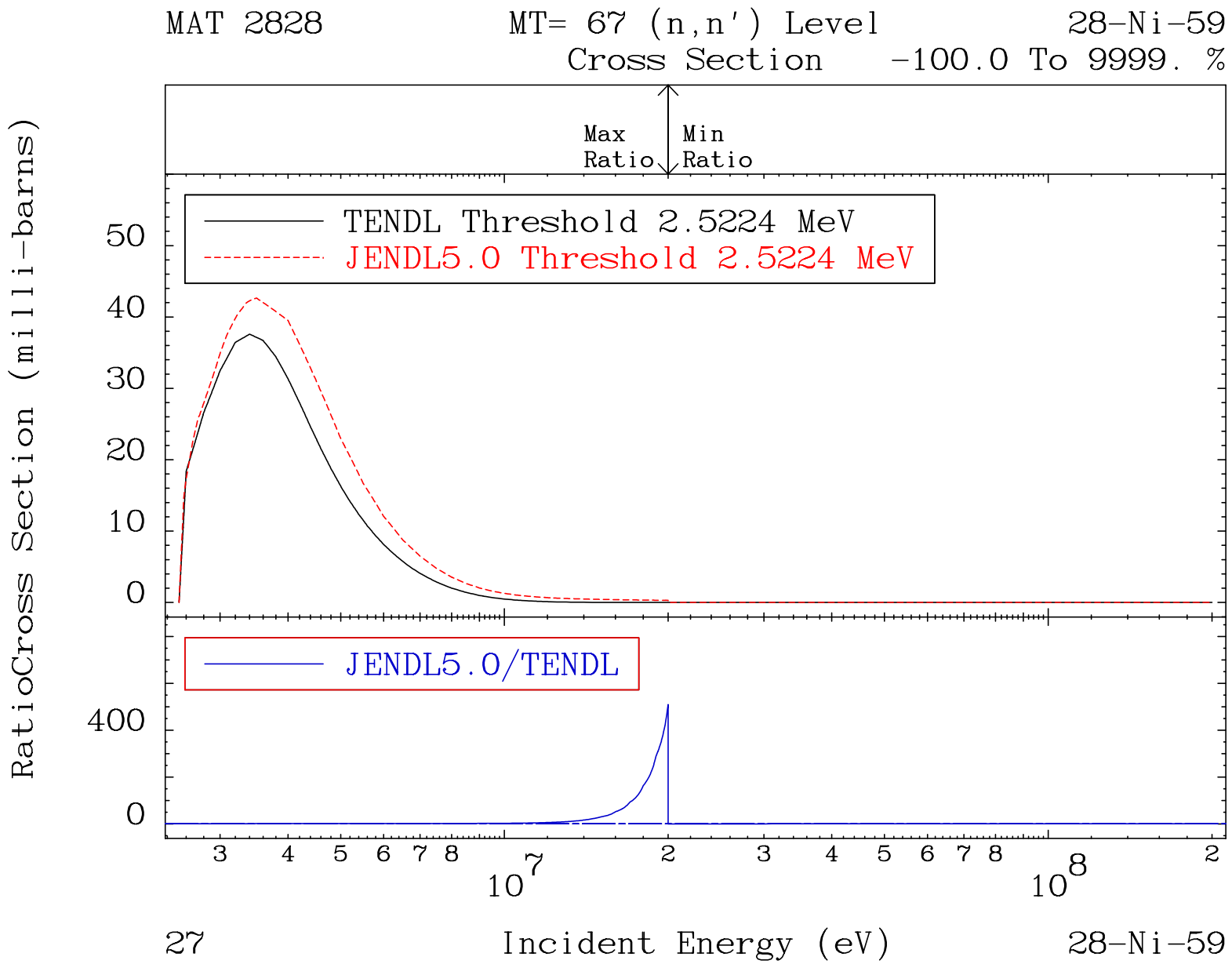

MAT 2828
MT= 62 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7977 MeV
JENDL5.0 Threshold 1.7977 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
200
100
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
28-Ni-59

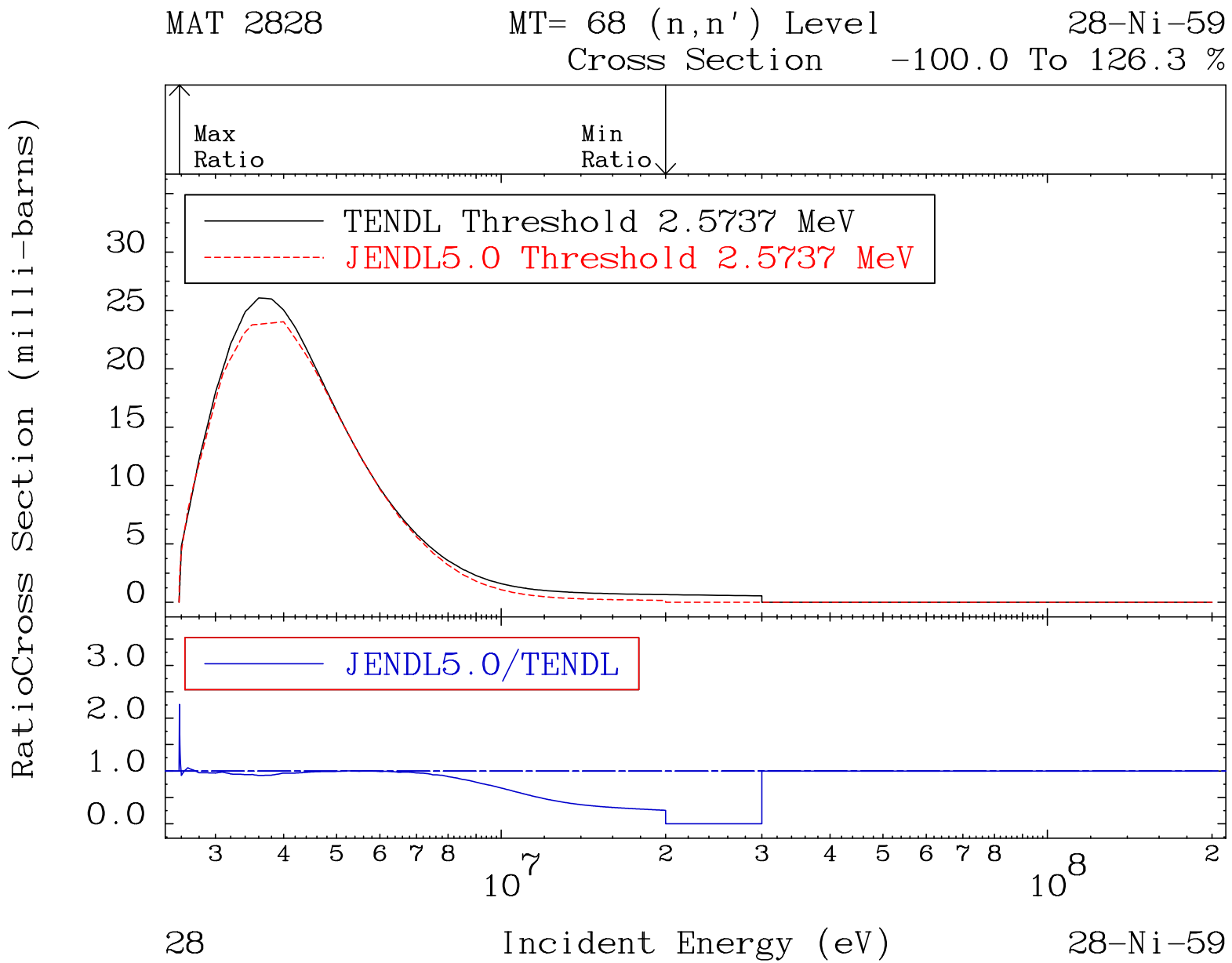

MAT 2828
MT= 63 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.9813 MeV
JENDL5.0 Threshold 1.9813 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
28-Ni-59

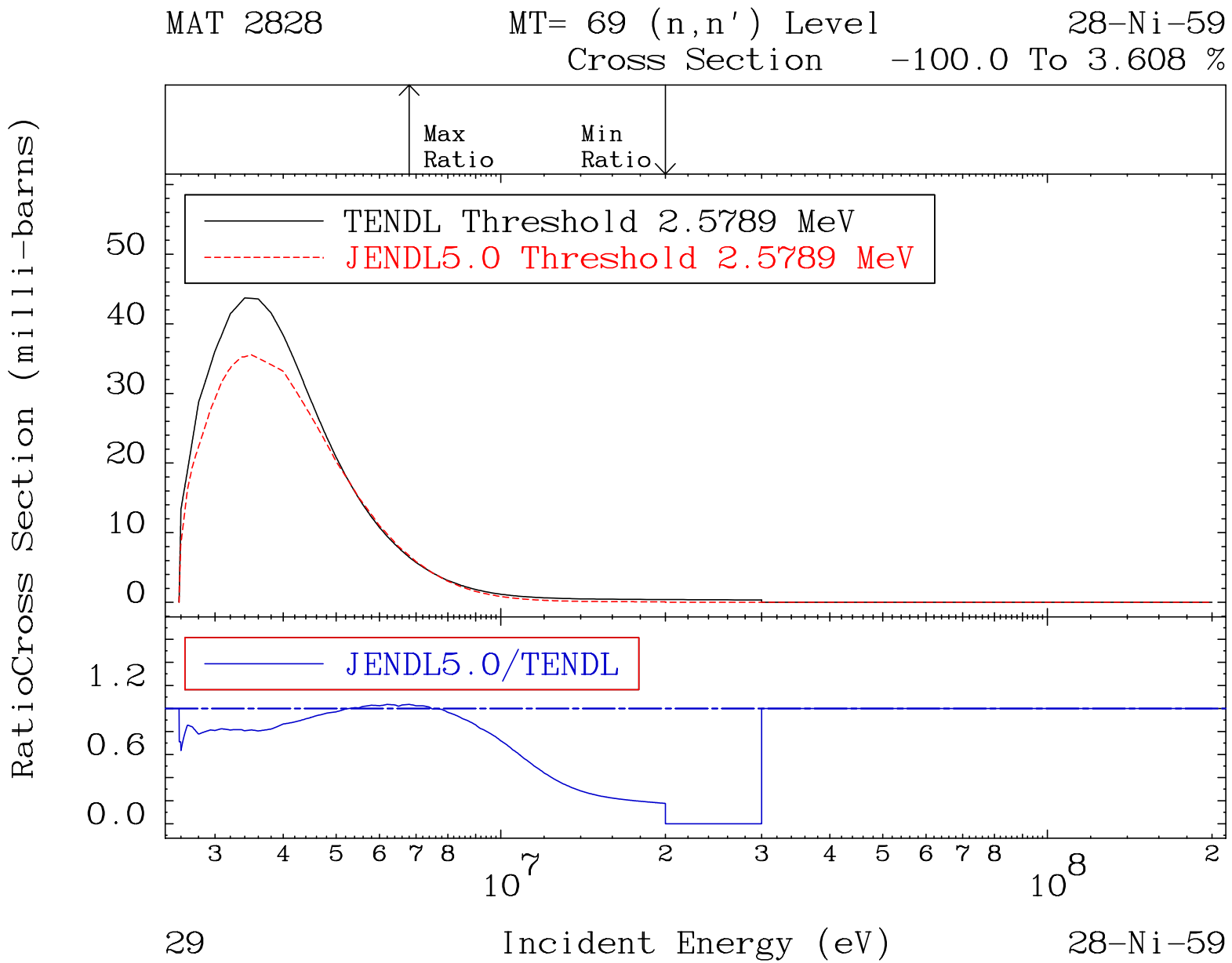

MAT 2828
MT= 64 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.3699 MeV
JENDL5.0 Threshold 2.3699 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
28-Ni-59

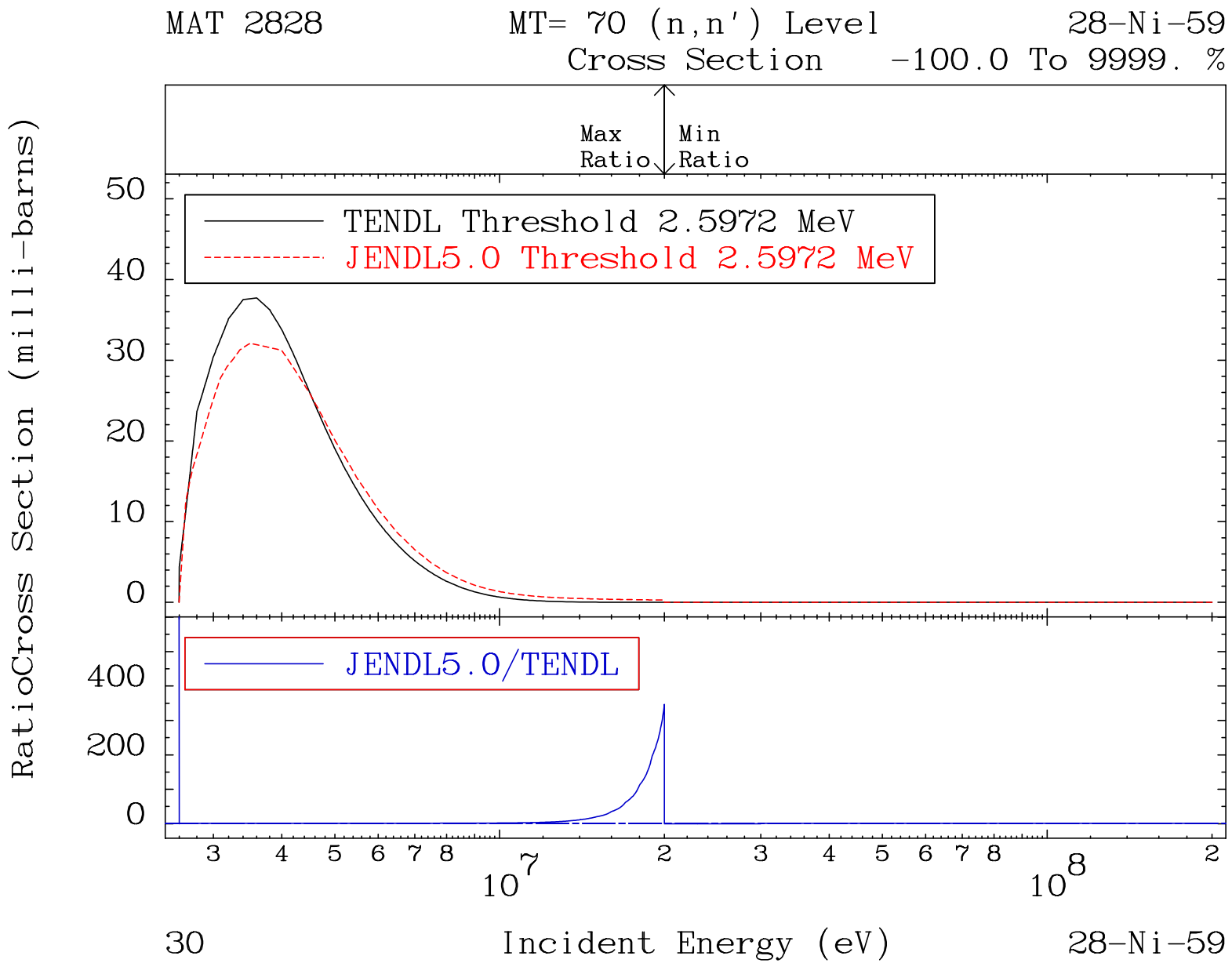

MAT 2828
MT= 65 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4562 MeV
JENDL5.0 Threshold 2.4562 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
25
28-Ni-59

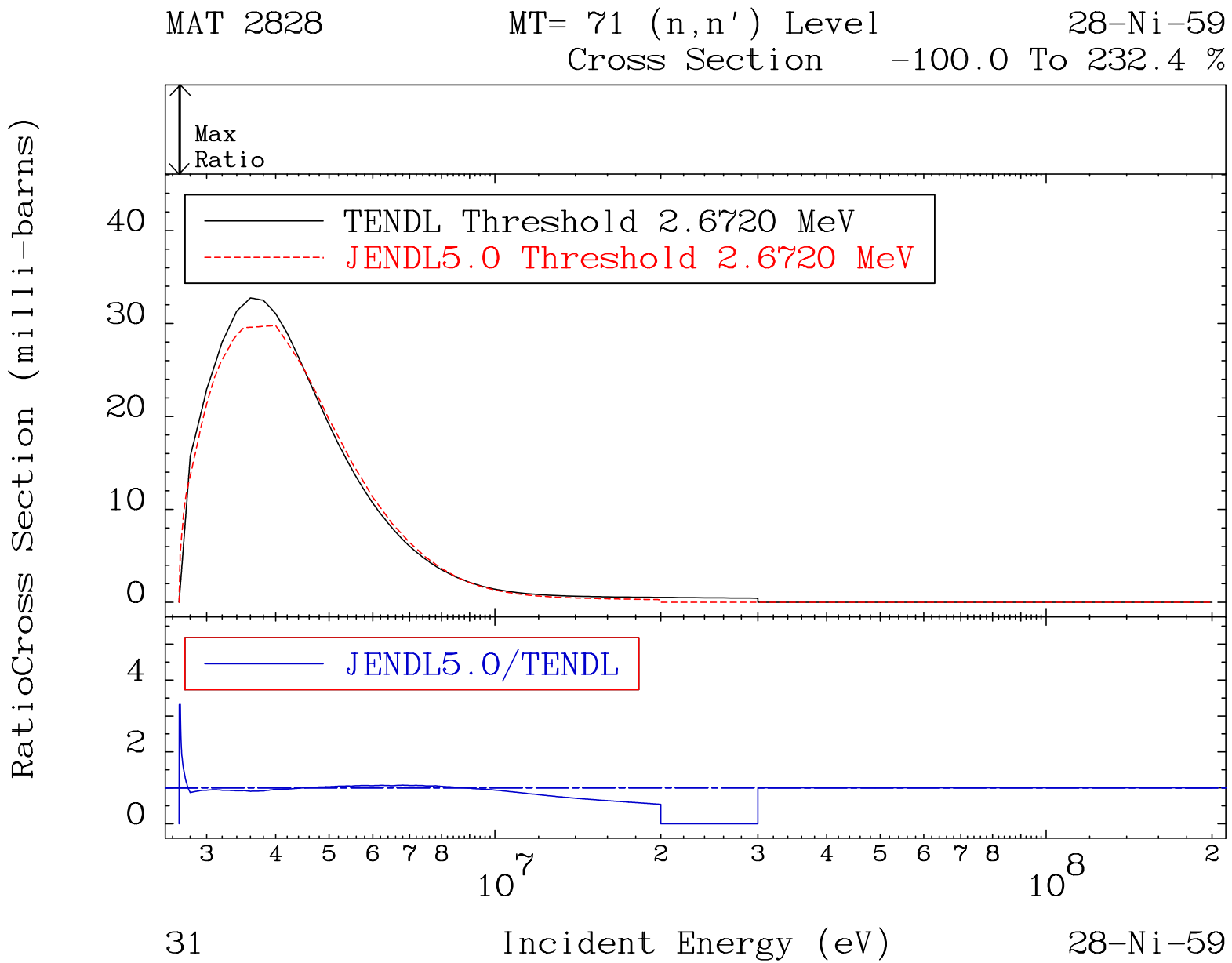

MAT 2828
MT= 66 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.4634 MeV
JENDL5.0 Threshold 2.4696 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
400
200
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
28-Ni-59

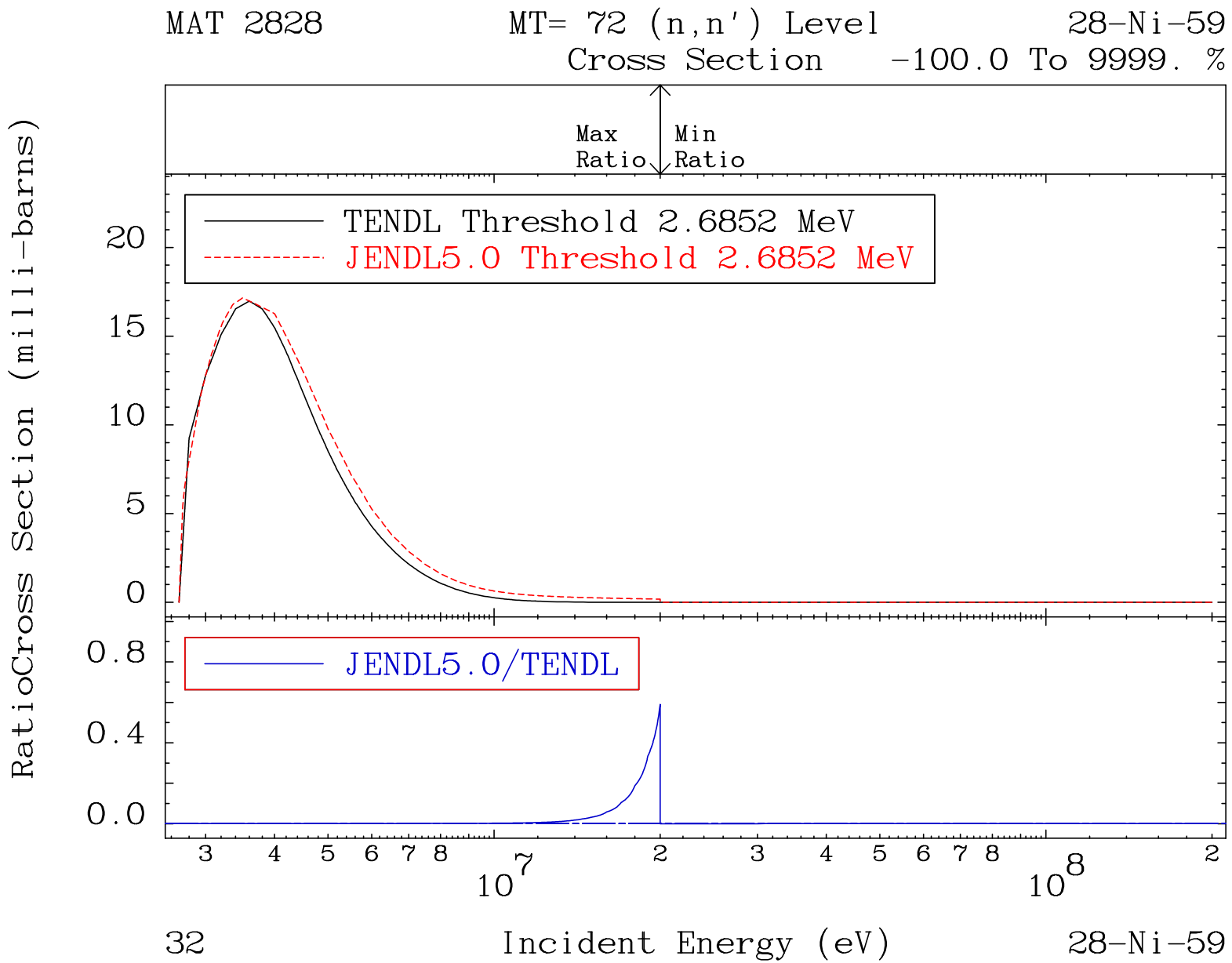

MAT 2828
MT= 67 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5224 MeV
JENDL5.0 Threshold 2.5224 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
400
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
28-Ni-59

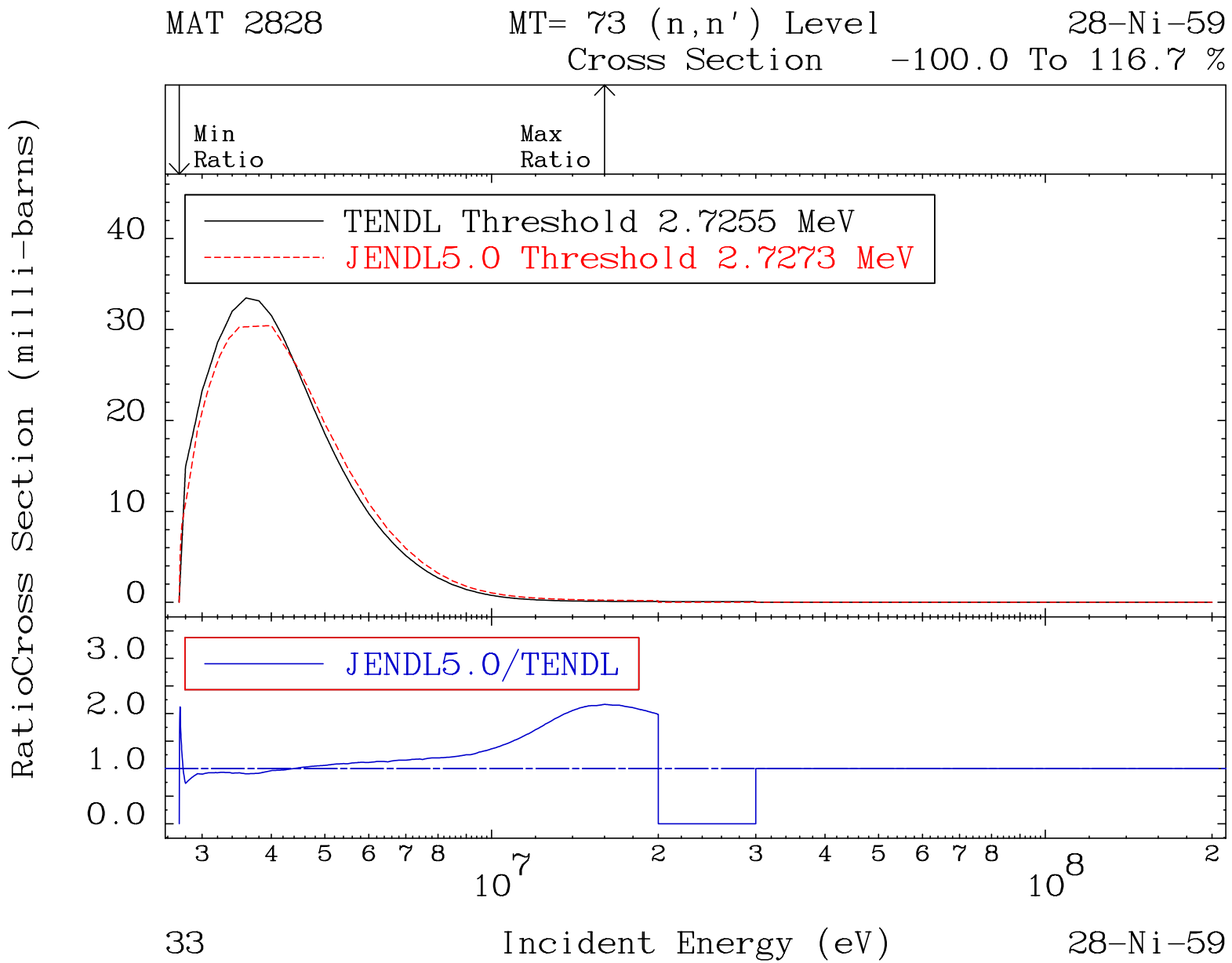

MAT 2828
MT= 68 (n,n') Level
28-Ni-59
Cross Section -100.0 To 126.3 %
Max Ratio
Min Ratio
TENDL Threshold 2.5737 MeV
JENDL5.0 Threshold 2.5737 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
28-Ni-59

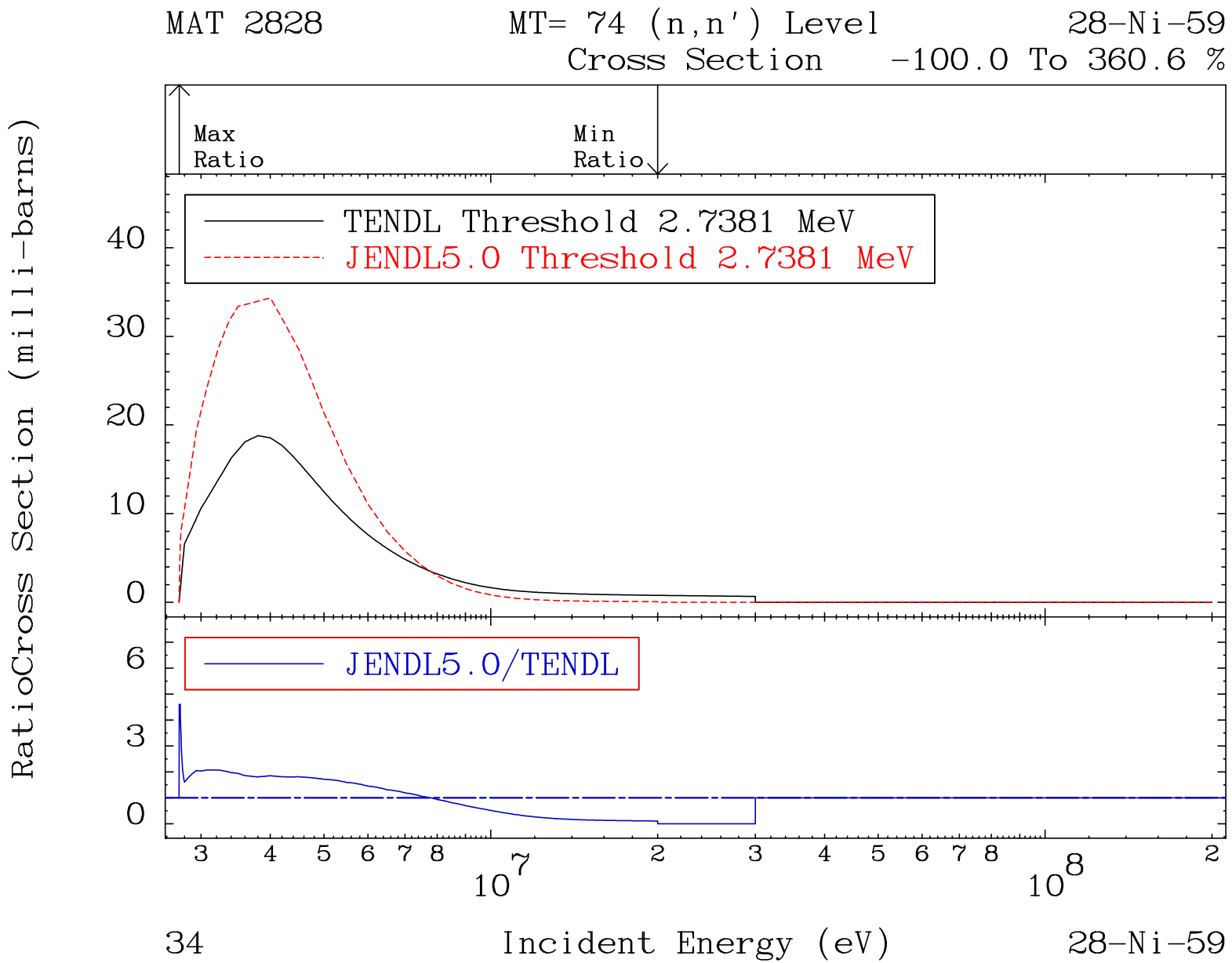

MAT 2828
MT= 69 (n,n') Level
28-Ni-59
Cross Section -100.0 To 3.608 %
Max Ratio
Min Ratio
TENDL Threshold 2.5789 MeV
JENDL5.0 Threshold 2.5789 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
28-Ni-59

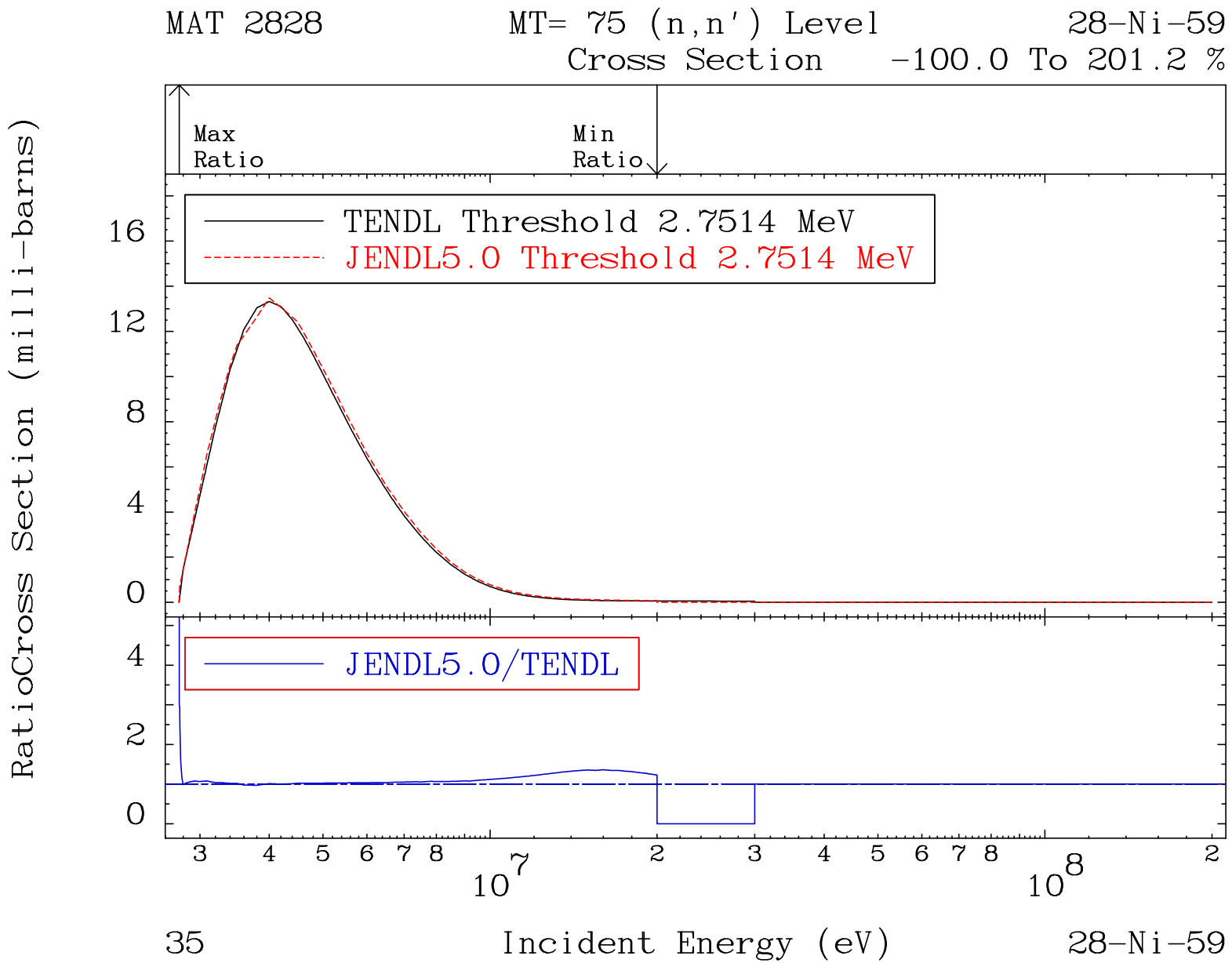

MAT 2828
MT= 70 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5972 MeV
JENDL5.0 Threshold 2.5972 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
400
200
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
28-Ni-59

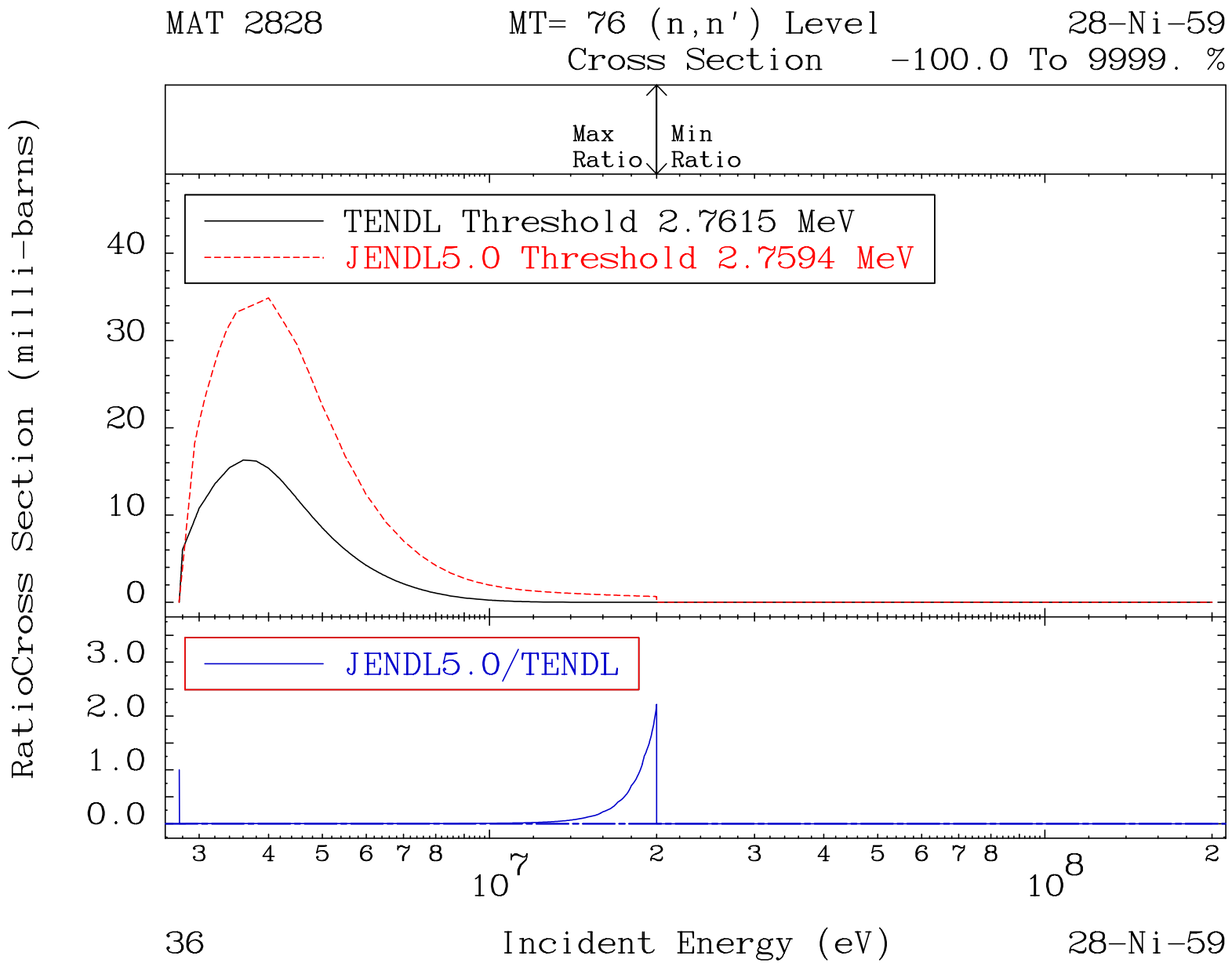

MAT 2828
MT= 71 (n,n') Level
28-Ni-59
Cross Section -100.0 To 232.4 %
Max
Ratio
TENDL Threshold 2.6720 MeV
JENDL5.0 Threshold 2.6720 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
28-Ni-59

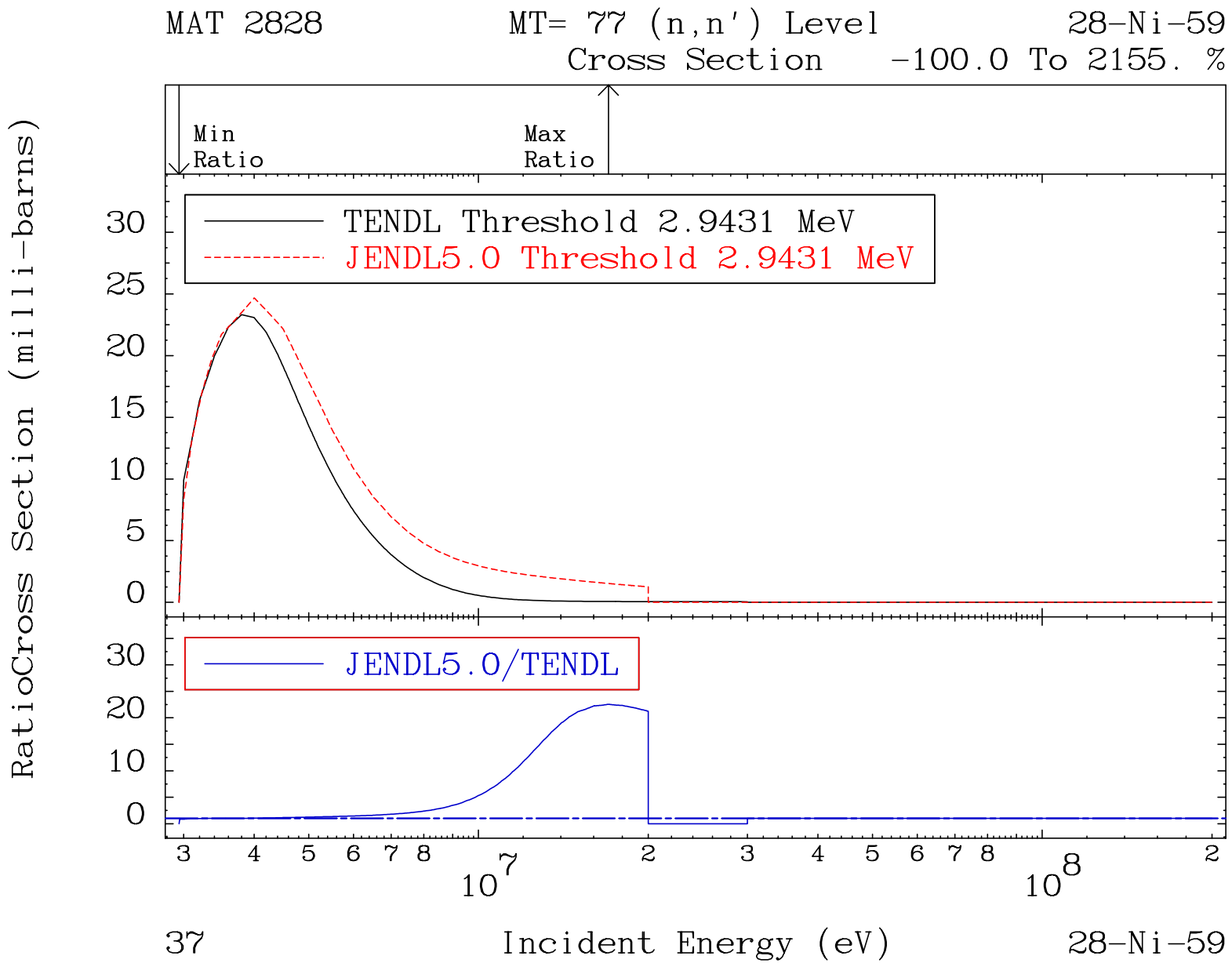

MAT 2828
MT= 72 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.6852 MeV
JENDL5.0 Threshold 2.6852 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
0.8
0.4
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
28-Ni-59

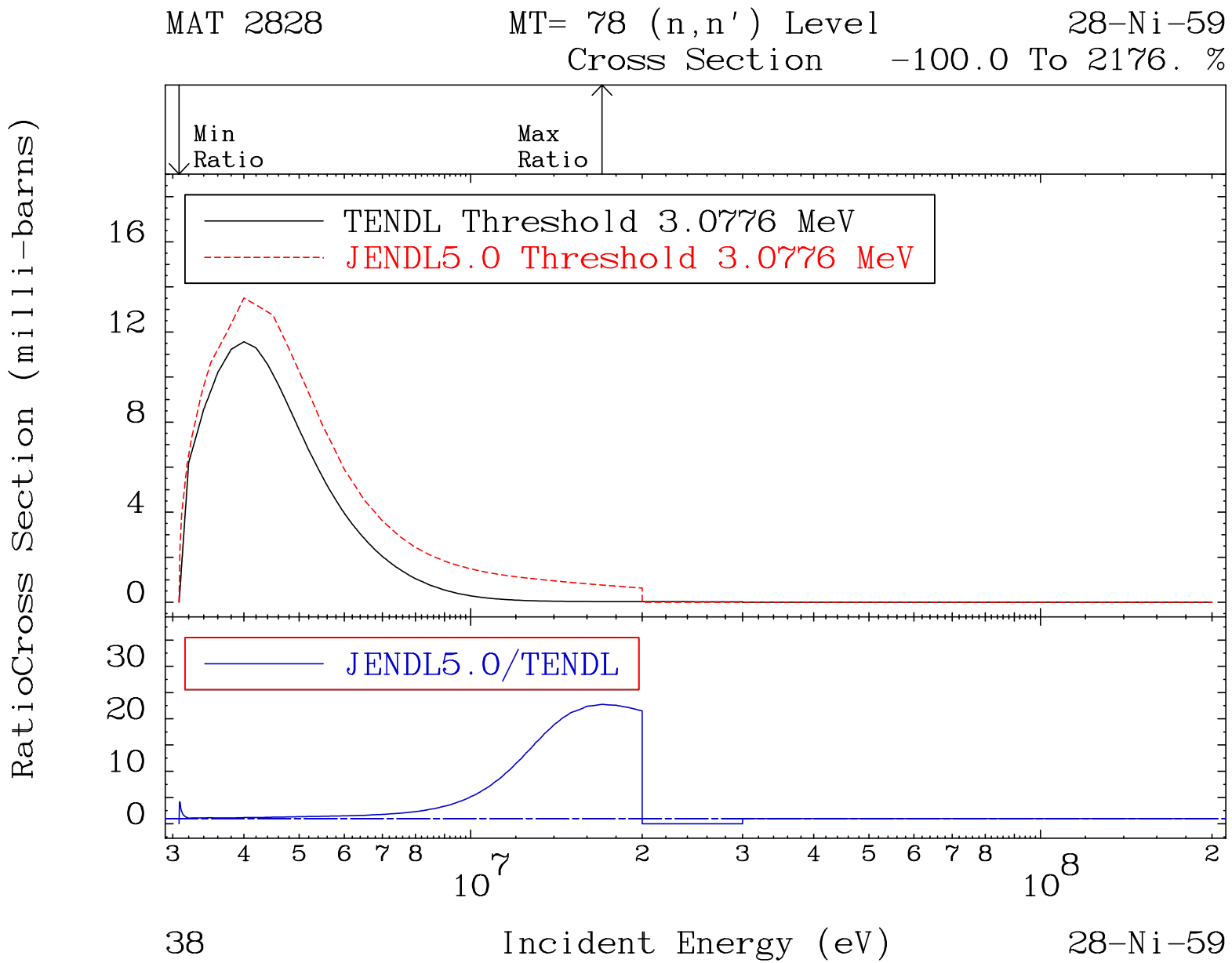

MAT 2828
MT= 73 (n,n') Level
28-Ni-59
Cross Section -100.0 To 116.7 %
Min Ratio
Max Ratio
TENDL Threshold 2.7255 MeV
JENDL5.0 Threshold 2.7273 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
33
Incident Energy (eV)
28-Ni-59

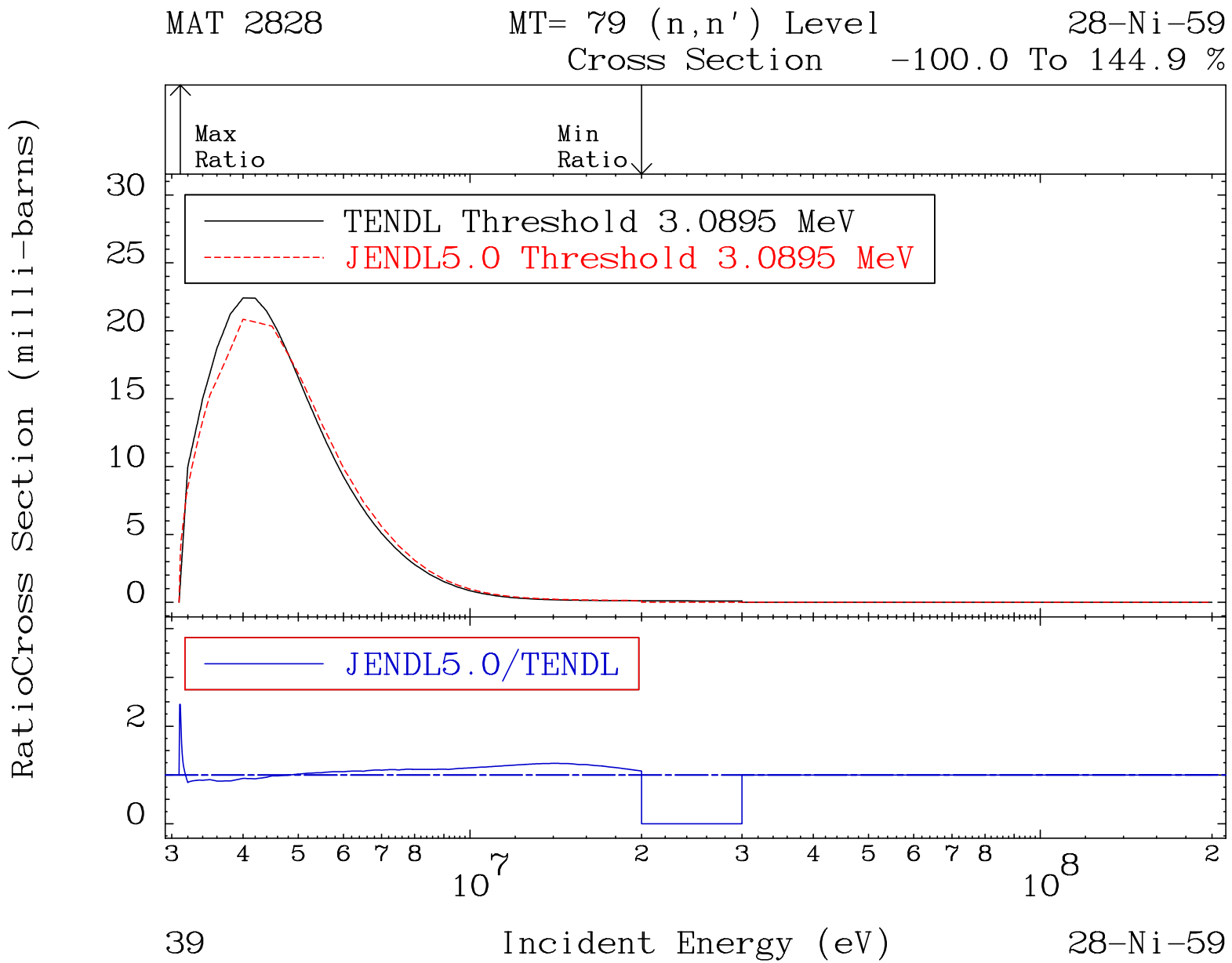

MAT 2828
MT= 74 (n,n') Level
28-Ni-59
Cross Section -100.0 To 360.6 %
Max Ratio
Min Ratio
TENDL Threshold 2.7381 MeV
JENDL5.0 Threshold 2.7381 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
6
3
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
28-Ni-59

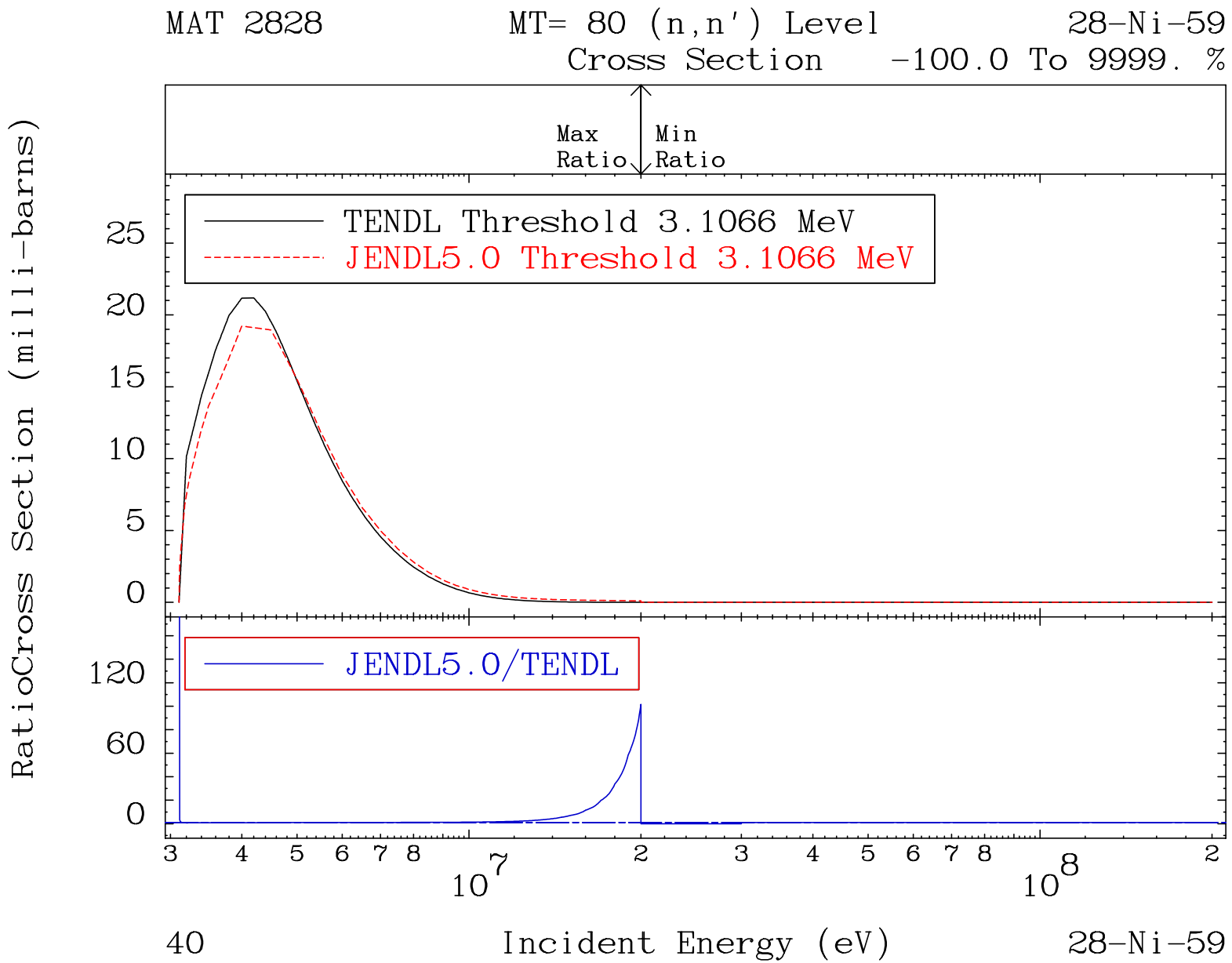

MAT 2828
MT= 75 (n,n') Level
28-Ni-59
Cross Section -100.0 To 201.2 %
Max Ratio
Min Ratio
TENDL Threshold 2.7514 MeV
JENDL5.0 Threshold 2.7514 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
35
Incident Energy (eV)
28-Ni-59

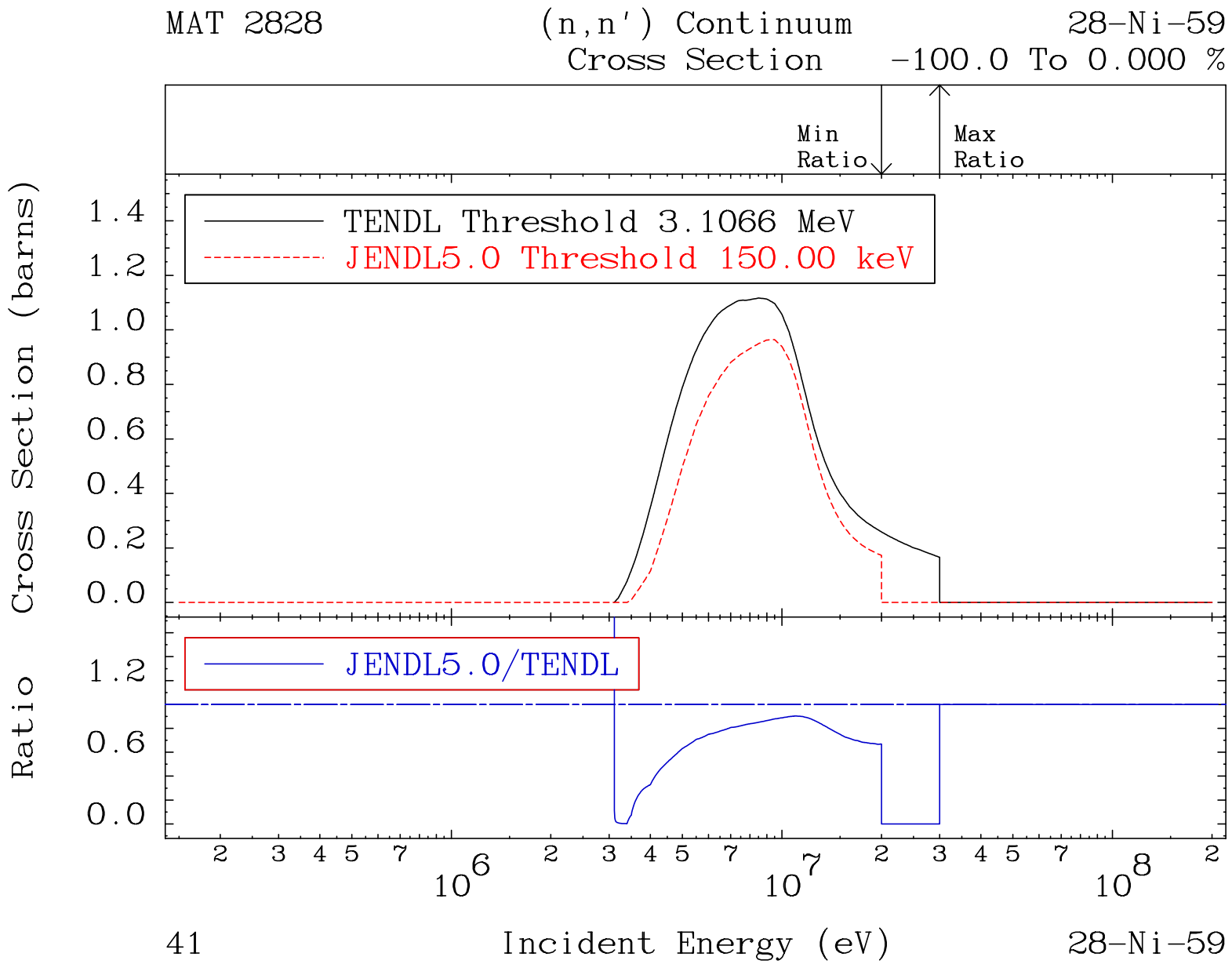

MAT 2828
MT= 76 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.7615 MeV
JENDL5.0 Threshold 2.7594 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
36
Incident Energy (eV)
28-Ni-59

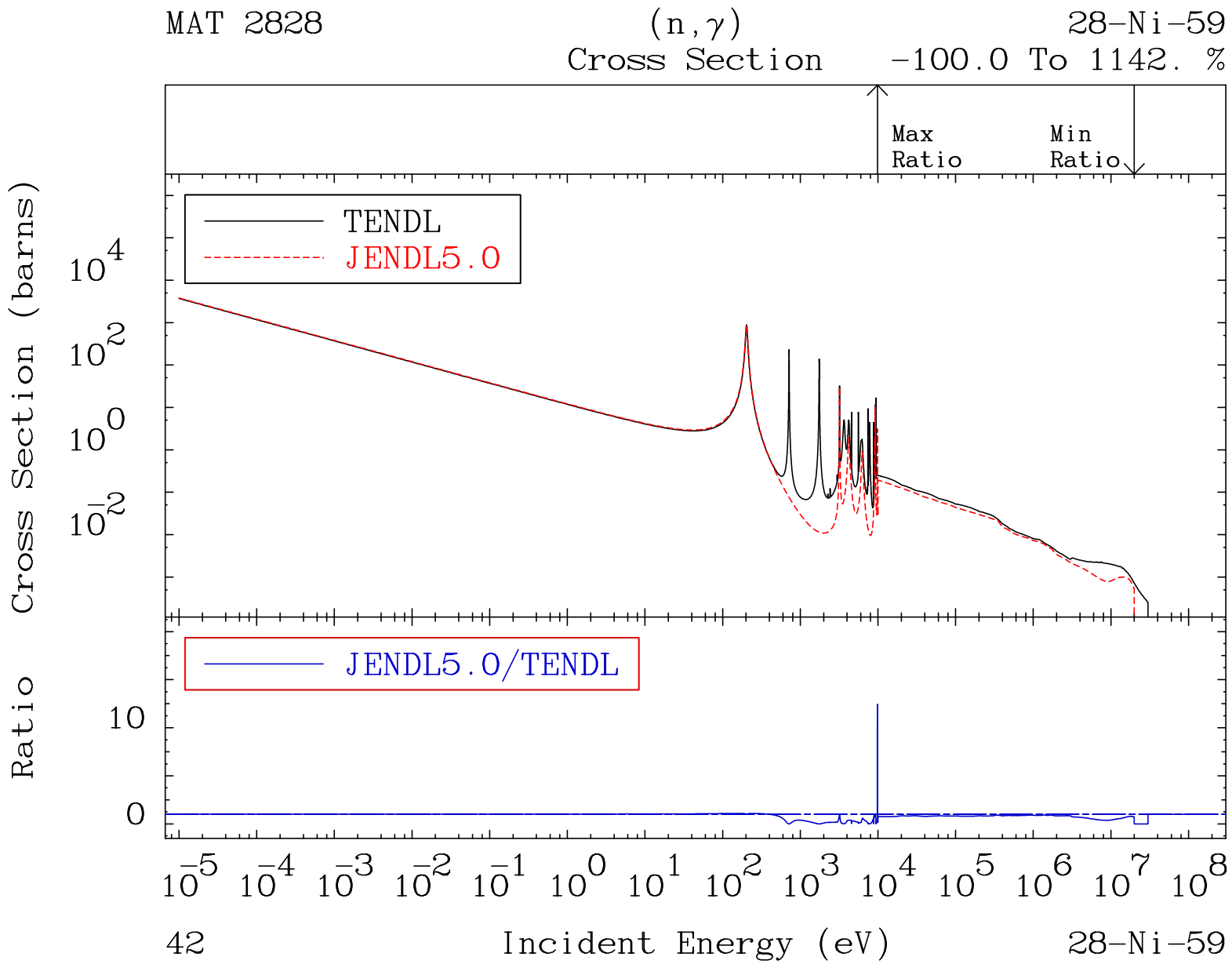

MAT 2828
MT= 77 (n,n') Level
28-Ni-59
Cross Section -100.0 To 2155. %
Min Ratio
Max Ratio
TENDL Threshold 2.9431 MeV
JENDL5.0 Threshold 2.9431 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
37
28-Ni-59

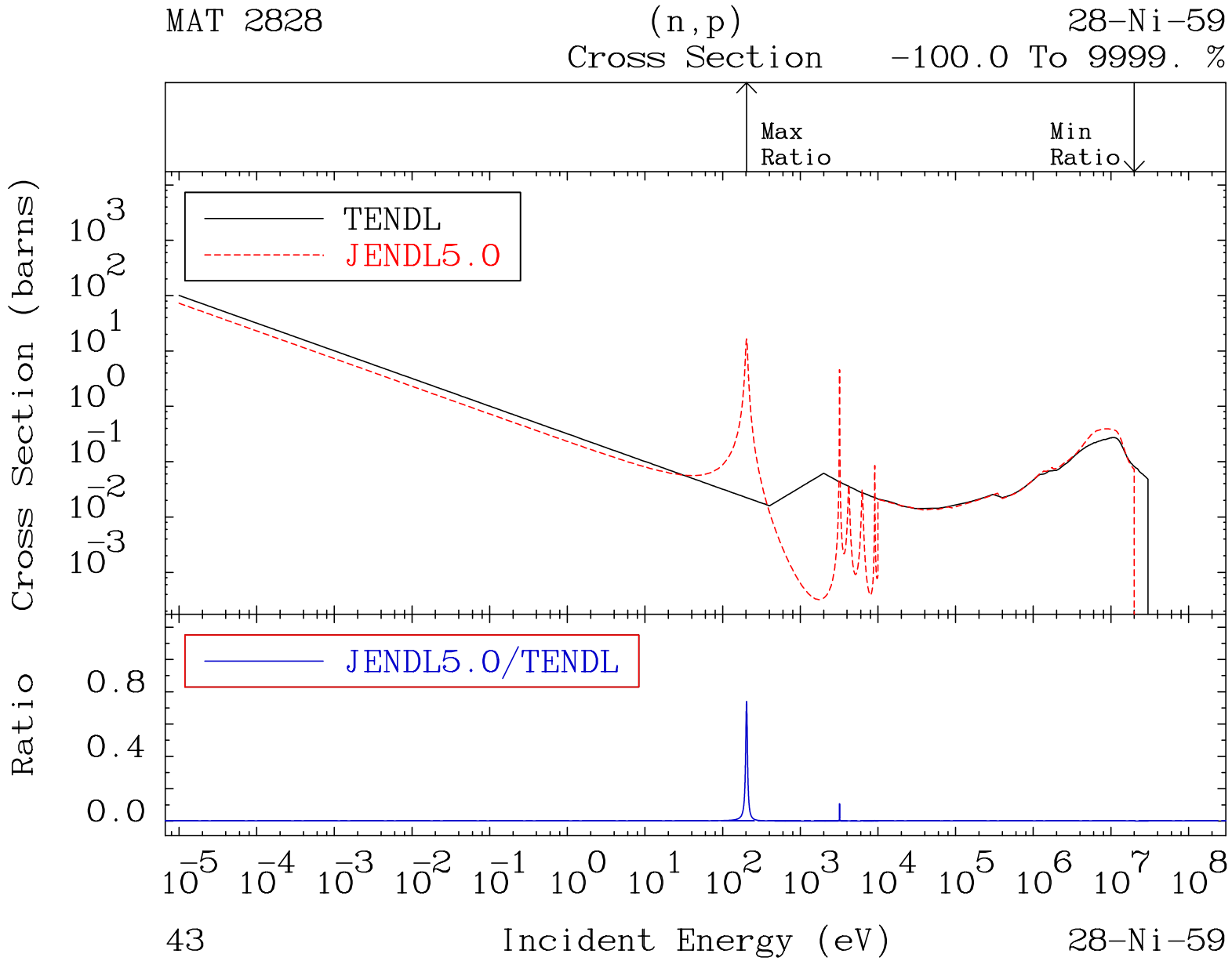

MAT 2828
MT= 78 (n,n') Level
28-Ni-59
Cross Section -100.0 To 2176. %
Min Ratio
Max Ratio
TENDL Threshold 3.0776 MeV
JENDL5.0 Threshold 3.0776 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
30
20
10
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
28-Ni-59

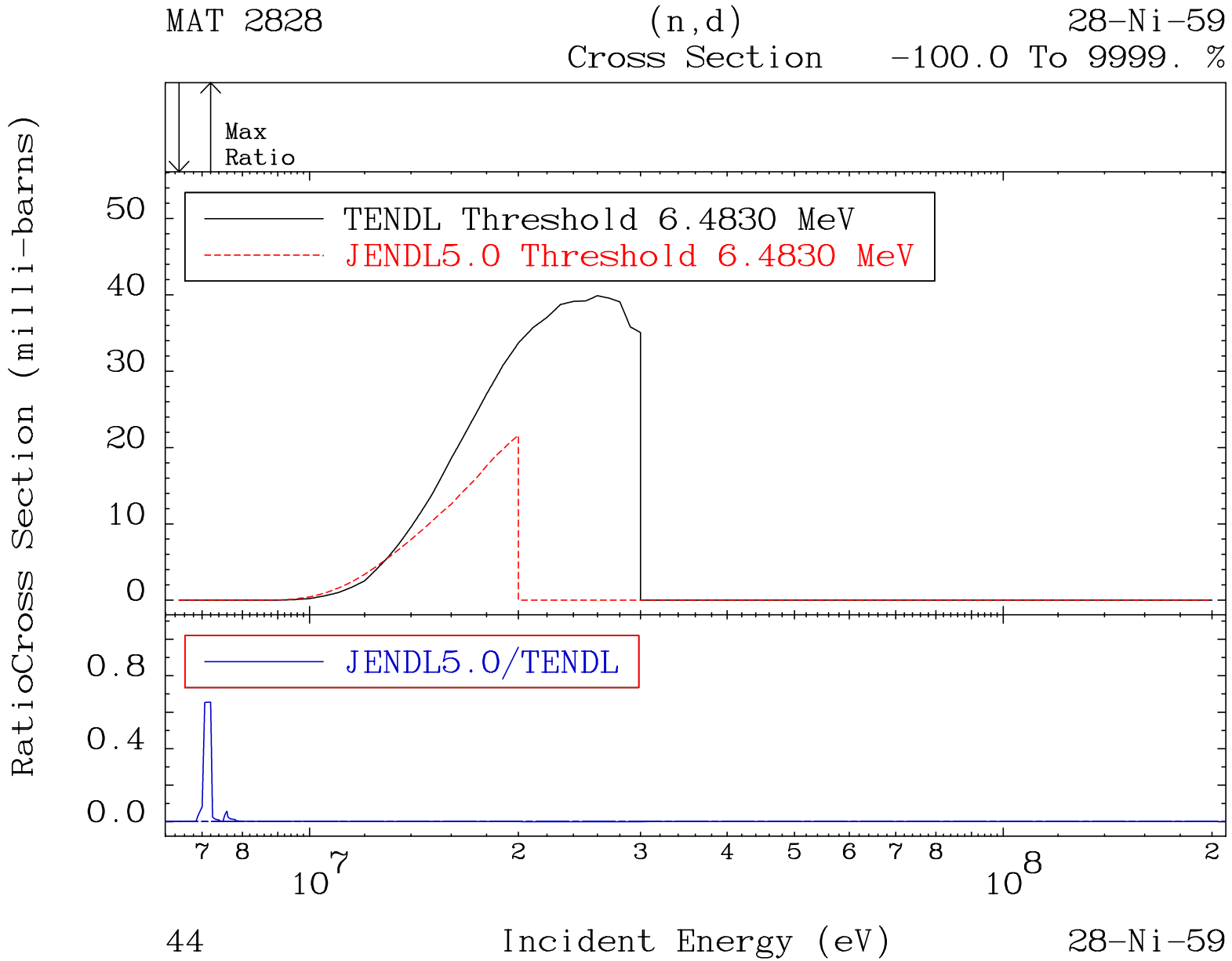

MAT 2828
MT= 79 (n,n') Level
28-Ni-59
Cross Section -100.0 To 144.9 %
Max Ratio
Min Ratio
TENDL Threshold 3.0895 MeV
JENDL5.0 Threshold 3.0895 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
39
Incident Energy (eV)
28-Ni-59

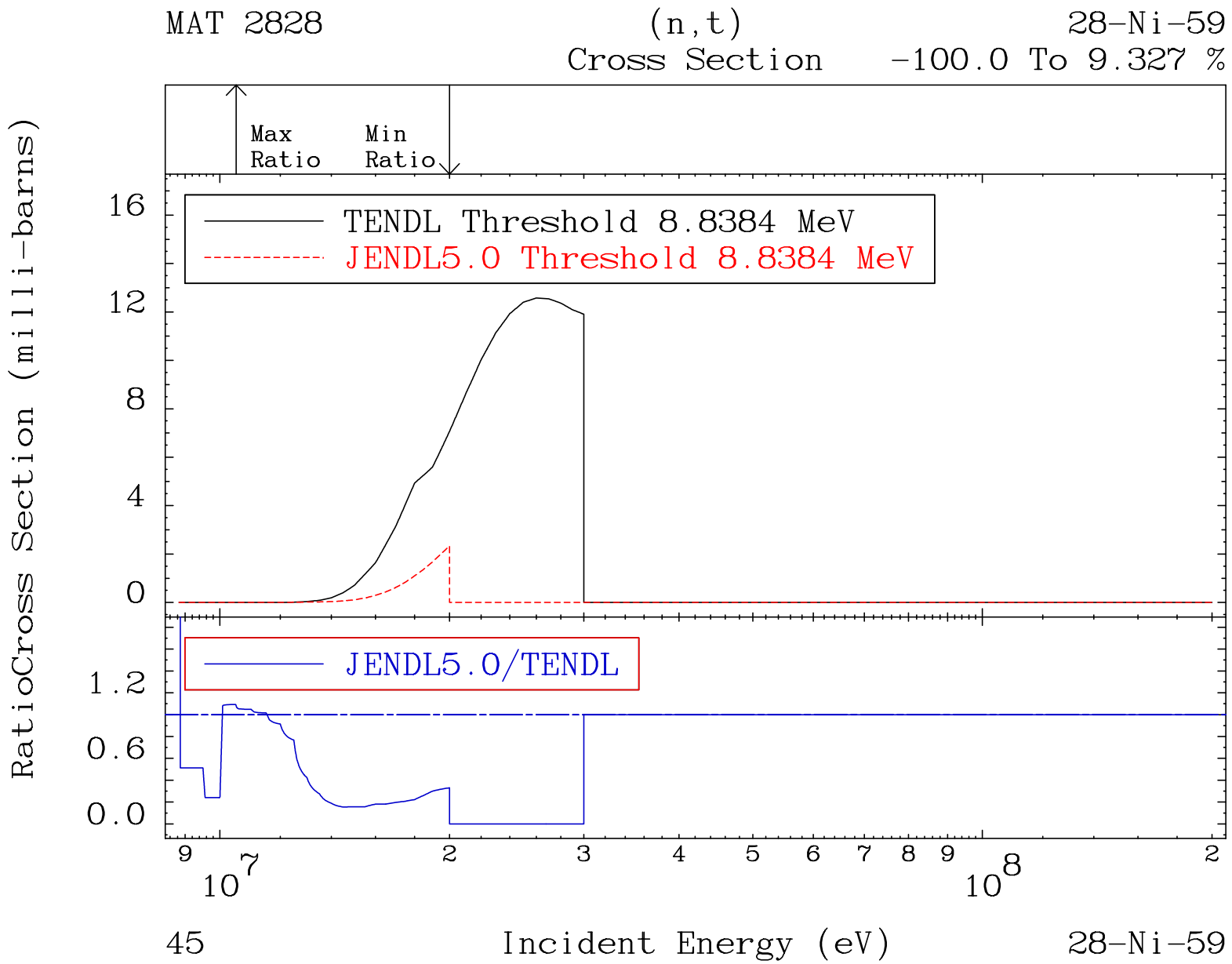

MAT 2828
MT= 80 (n,n') Level
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.1066 MeV
JENDL5.0 Threshold 3.1066 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
120
60
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
40
Incident Energy (eV)
28-Ni-59

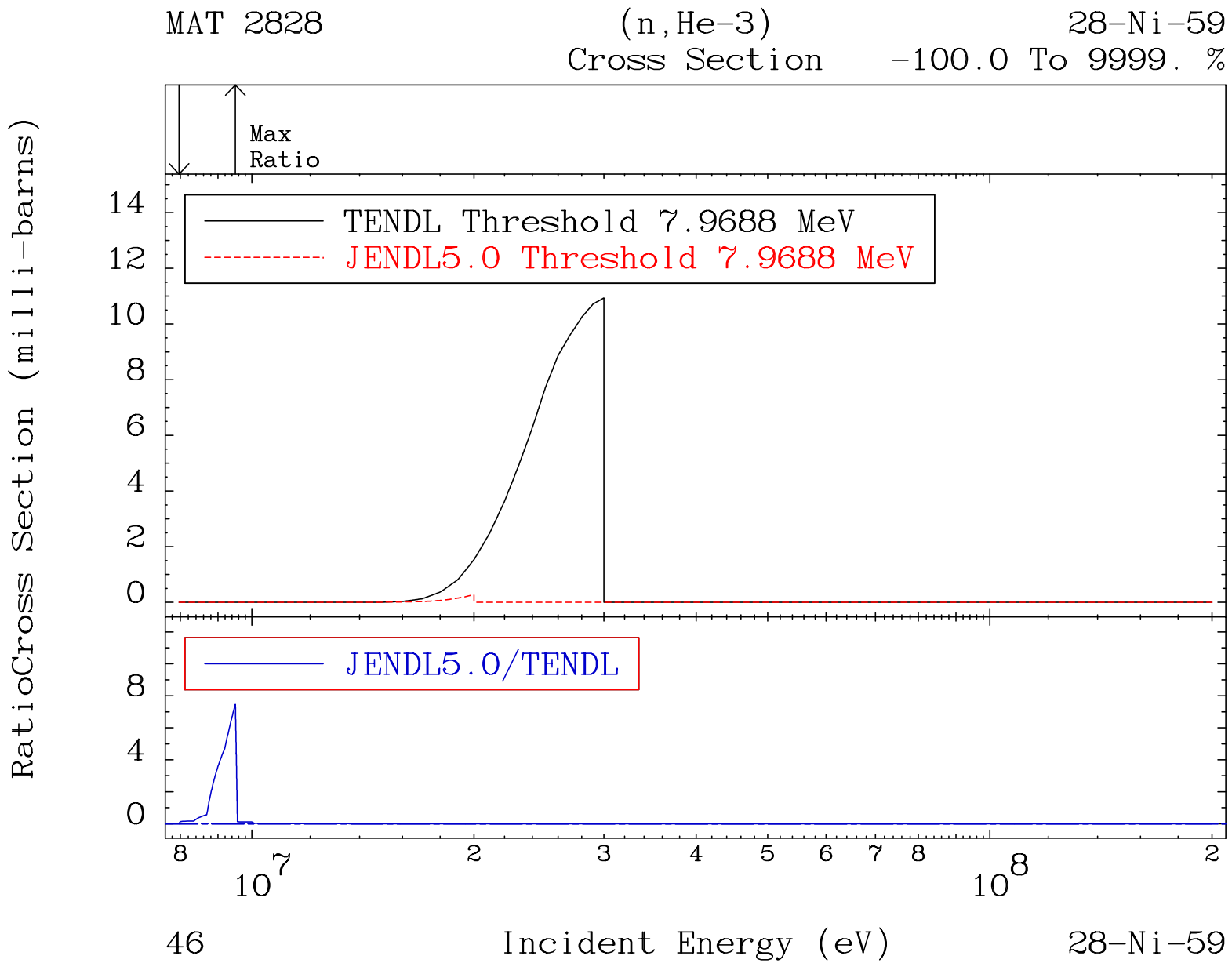

MAT 2828
(n,n') Continuum
Cross Section
28-Ni-59
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.1066 MeV
JENDL5.0 Threshold 150.00 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
Incident Energy (eV)
41
28-Ni-59

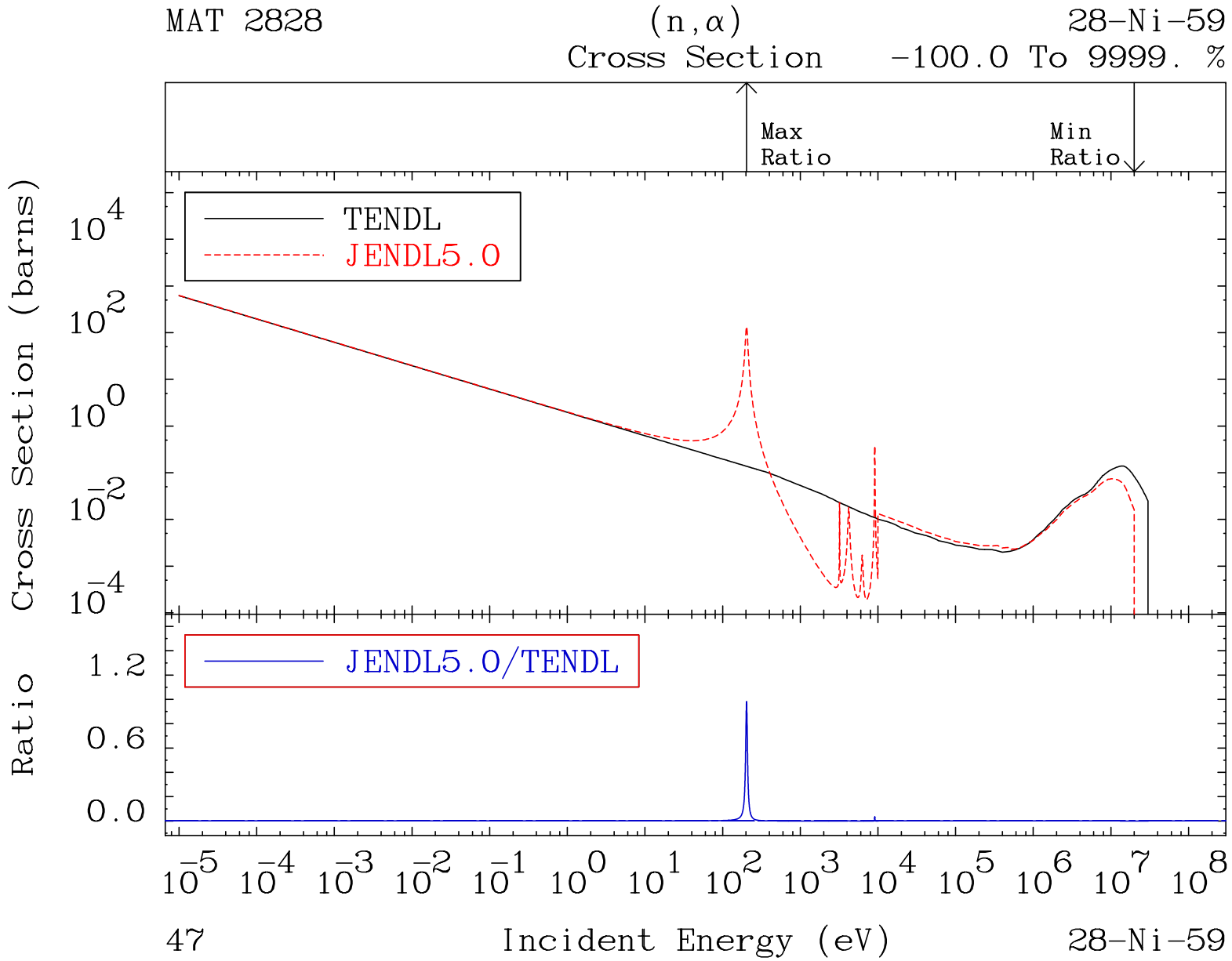

MAT 2828
(n,γ)
Cross Section
28-Ni-59
-100.0 To 1142. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
10
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
42
Incident Energy (eV)
28-Ni-59

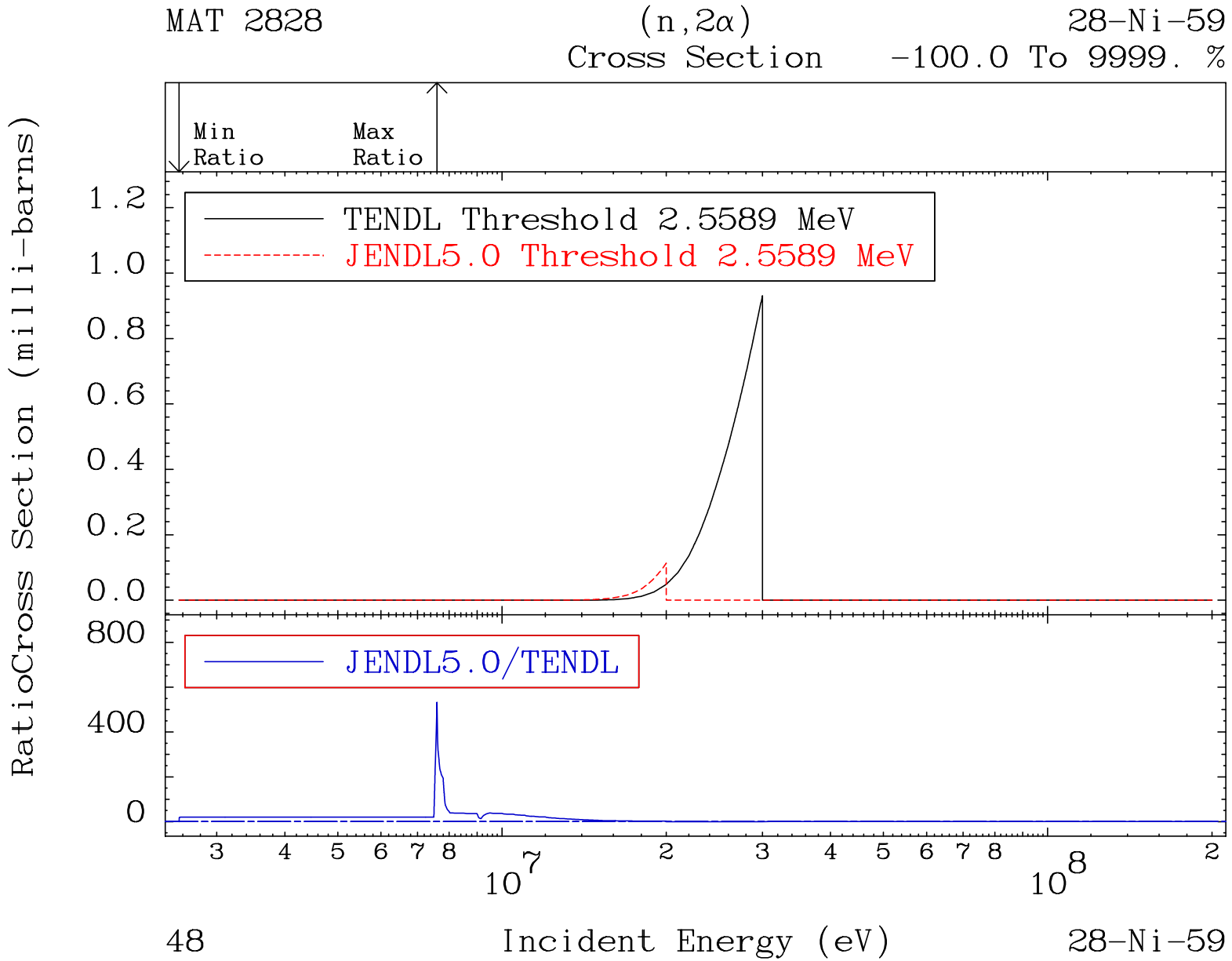

MAT 2828
(n,p)
Cross Section
28-Ni-59
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
28-Ni-59

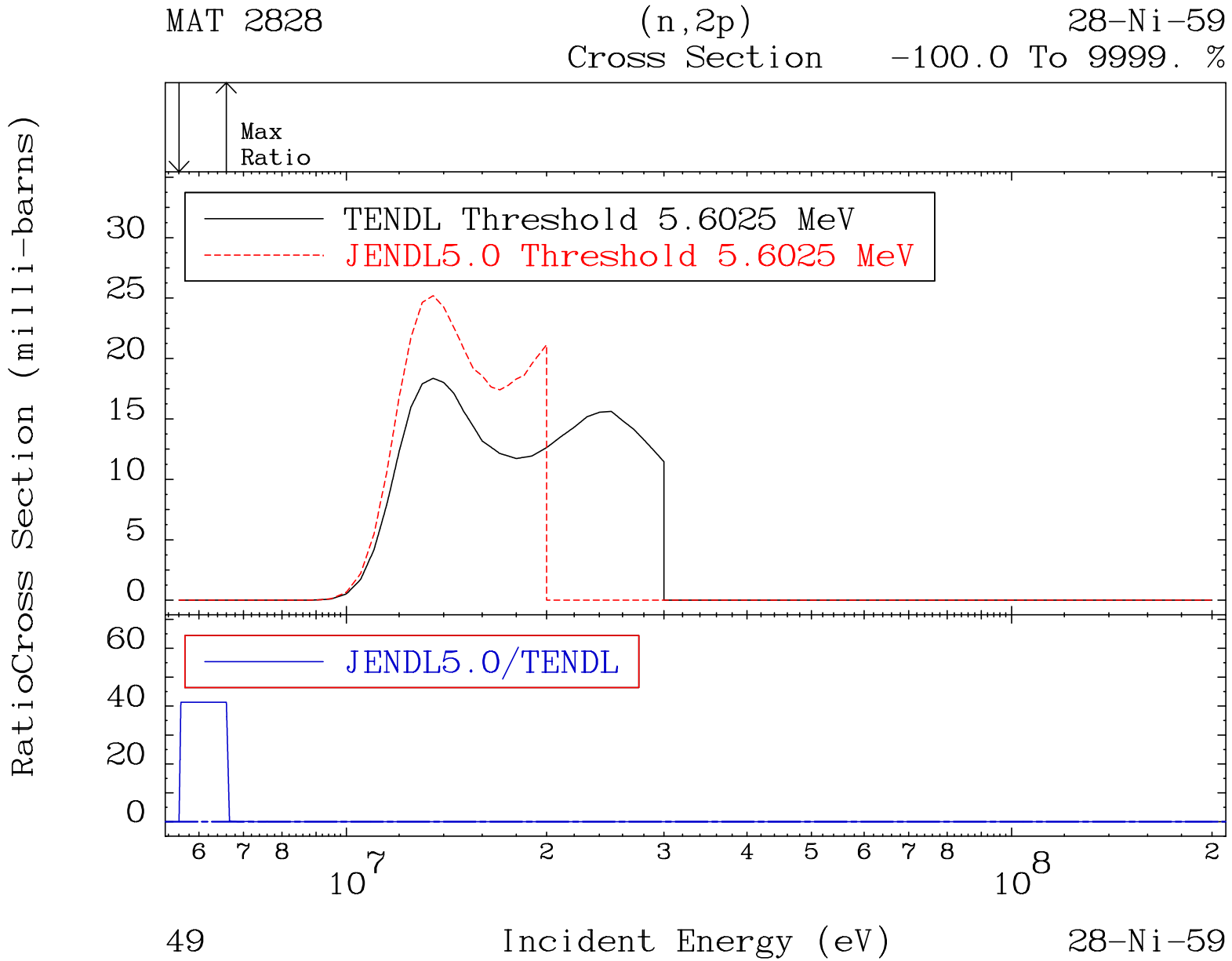

MAT 2828
(n,d)
28-Ni-59
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.4830 MeV
JENDL5.0 Threshold 6.4830 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
0.8
0.4
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
44
Incident Energy (eV)
28-Ni-59

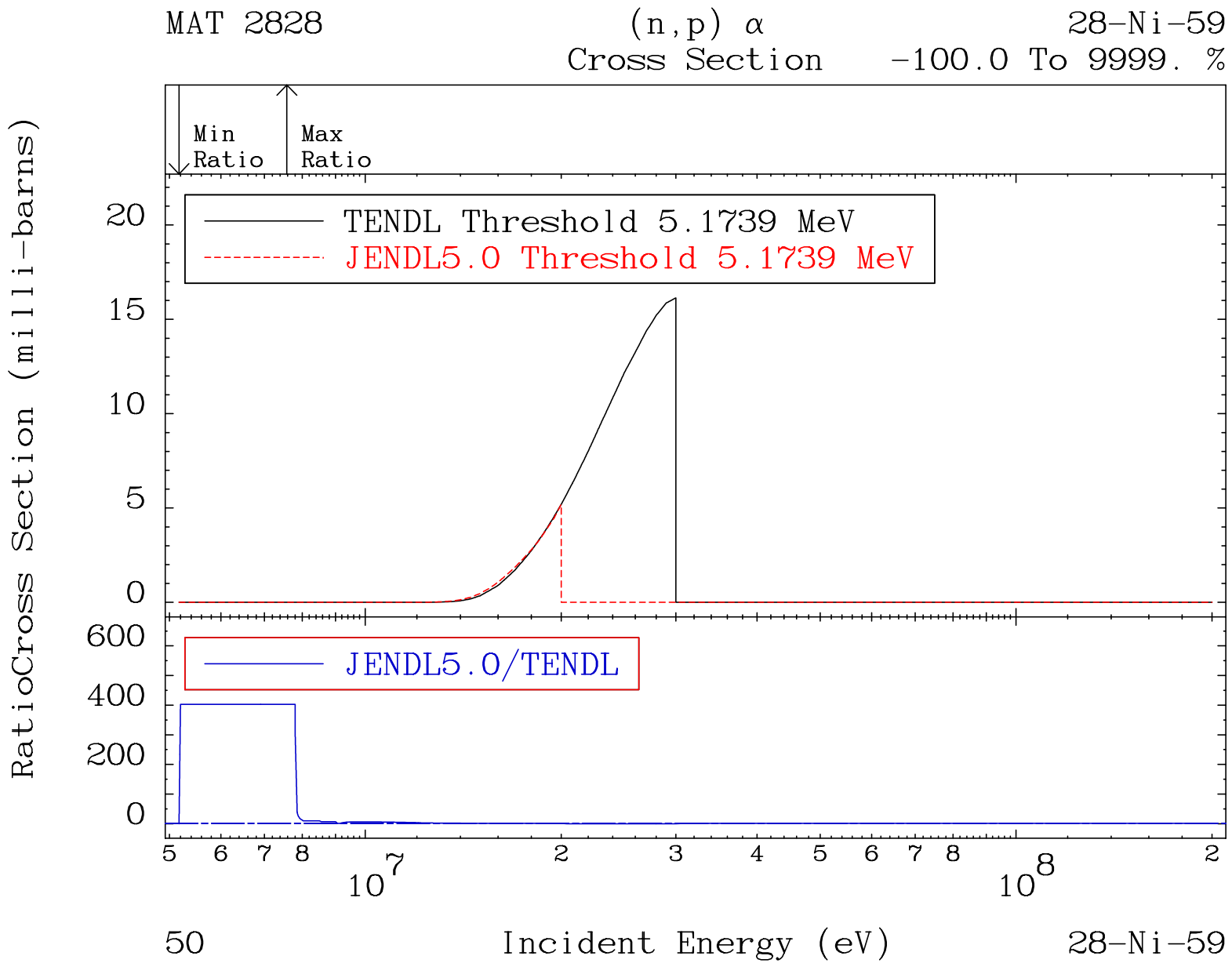

MAT 2828
(n,t)
Cross Section
28-Ni-59
-100.0 To 9.327 %
Max Ratio
Min Ratio
TENDL Threshold 8.8384 MeV
JENDL5.0 Threshold 8.8384 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
28-Ni-59

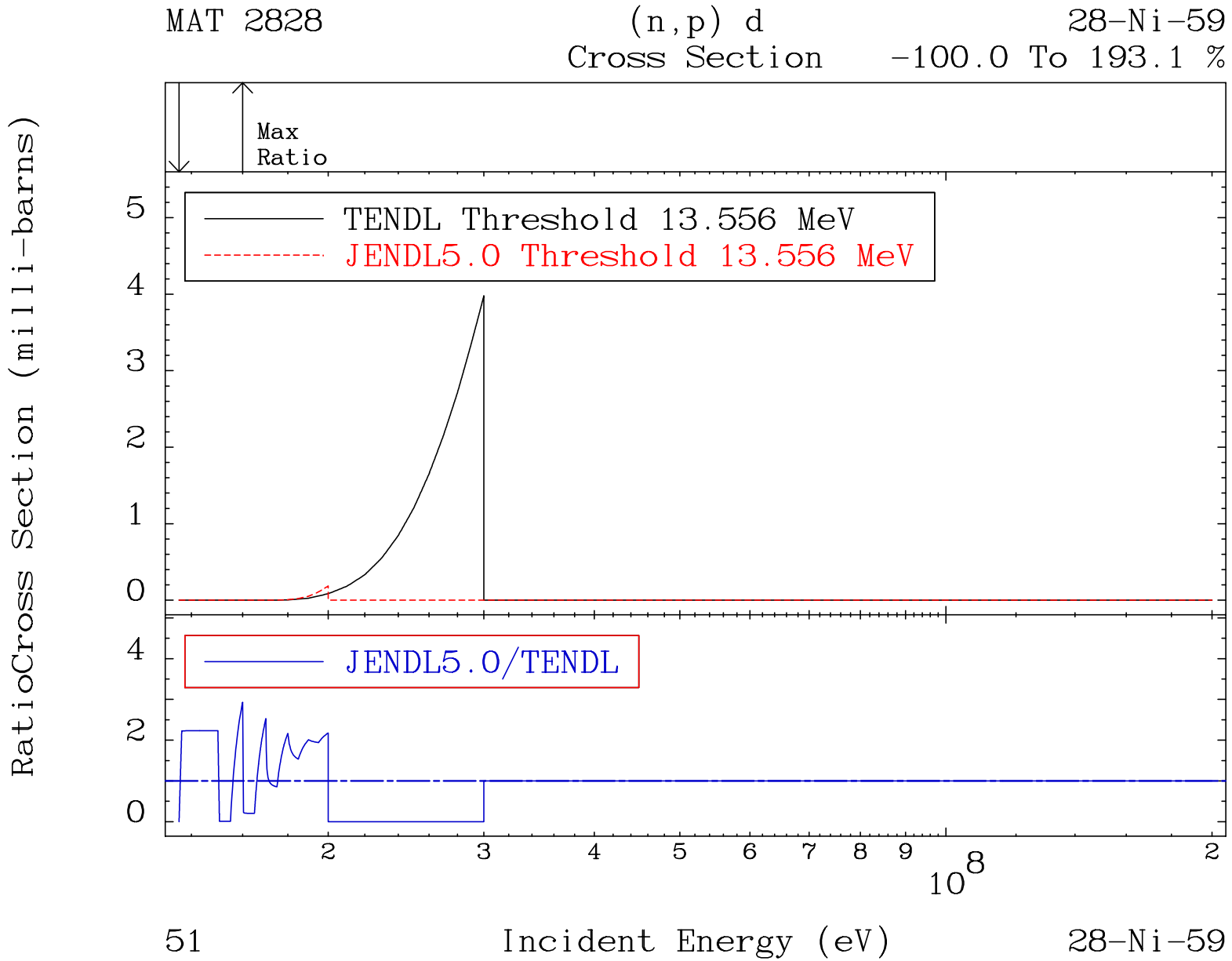

MAT 2828
(n,He-3)
Cross Section
28-Ni-59
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.9688 MeV
JENDL5.0 Threshold 7.9688 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
8
4
0
8
2
3
4
5
6
7
8
2
10^7
10^8
46
Incident Energy (eV)
28-Ni-59

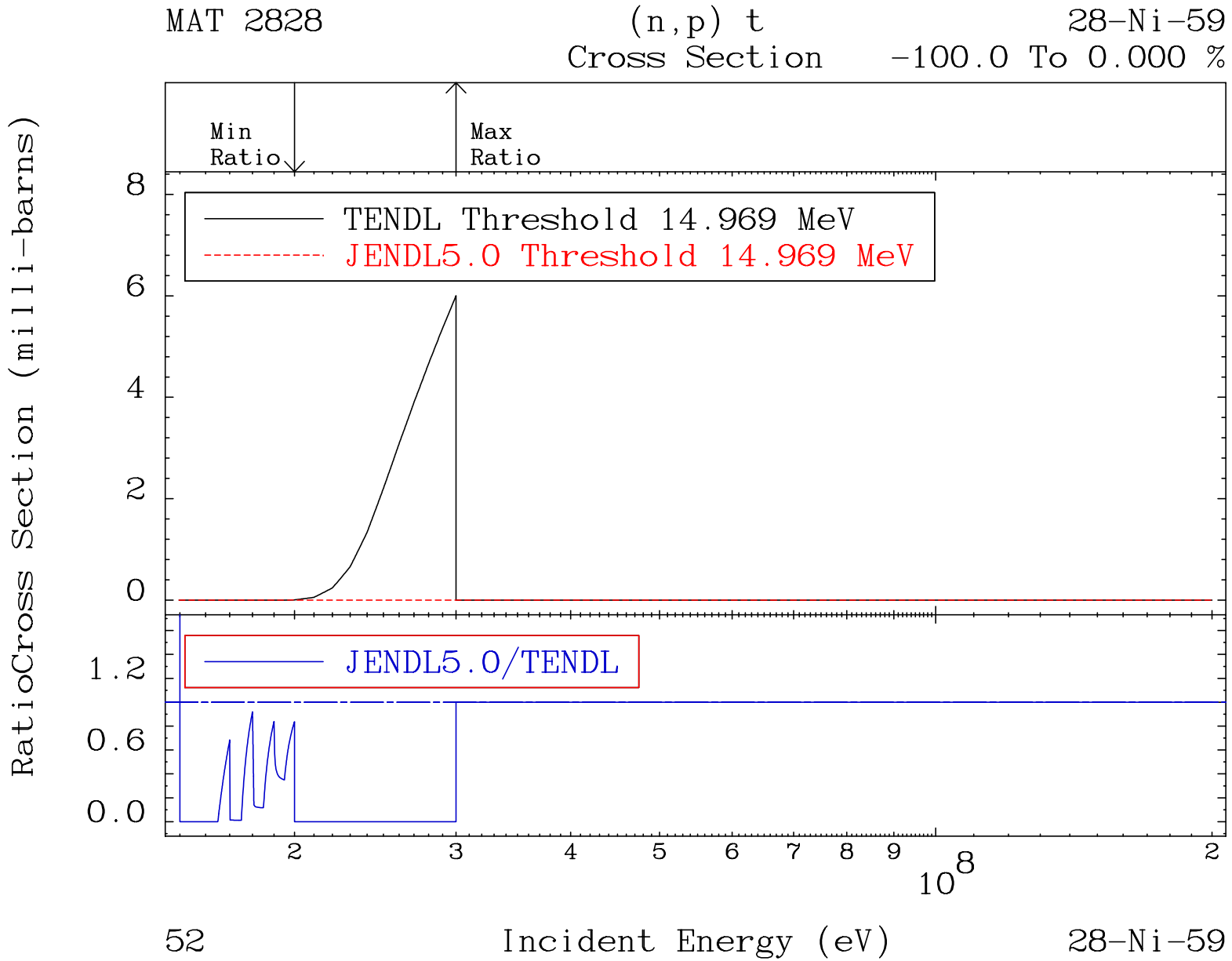

MAT 2828
(n,α)
Cross Section
28-Ni-59
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
28-Ni-59

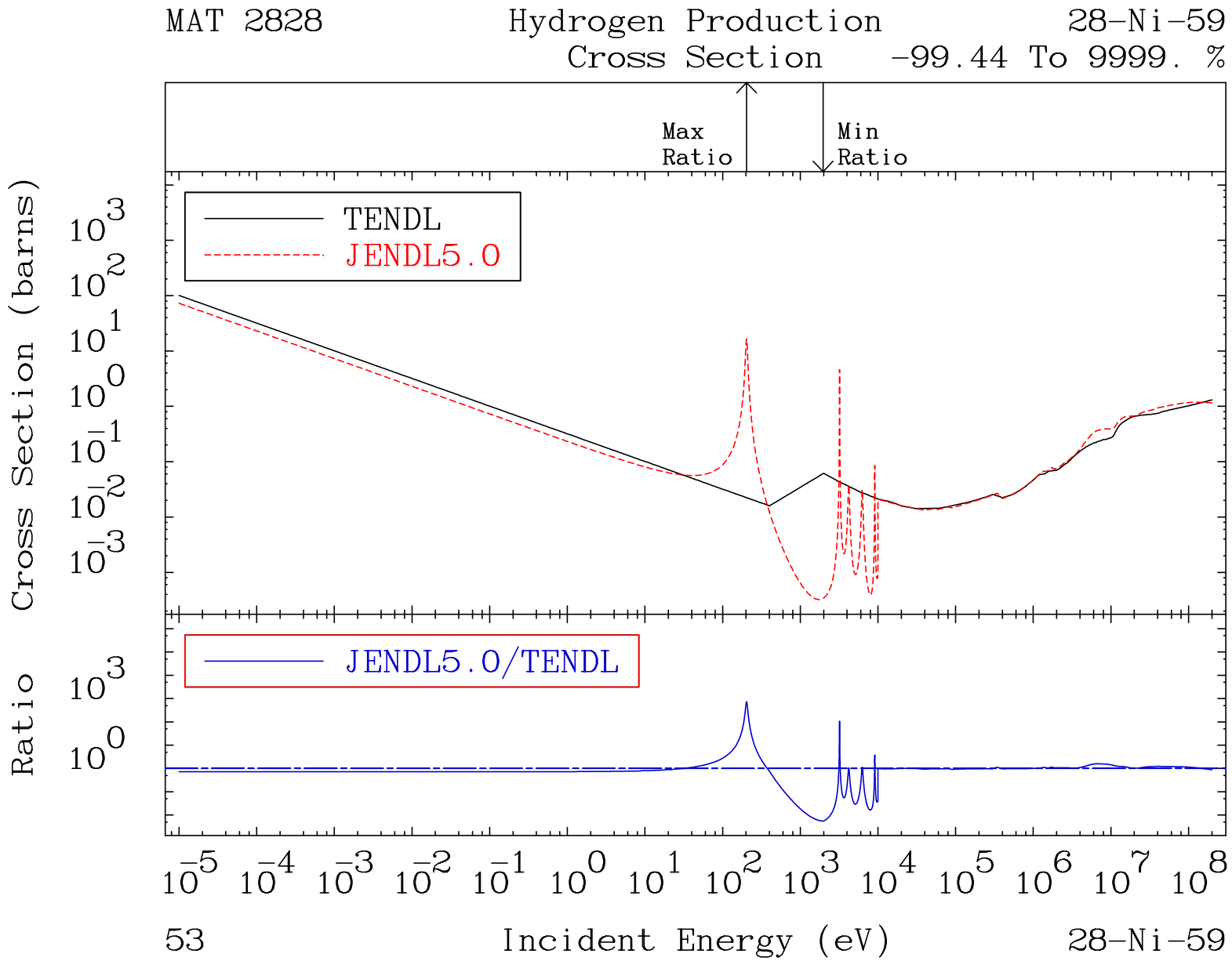

MAT 2828
(n,2α)
28-Ni-59
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5589 MeV
JENDL5.0 Threshold 2.5589 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
800
400
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
48
Incident Energy (eV)
28-Ni-59

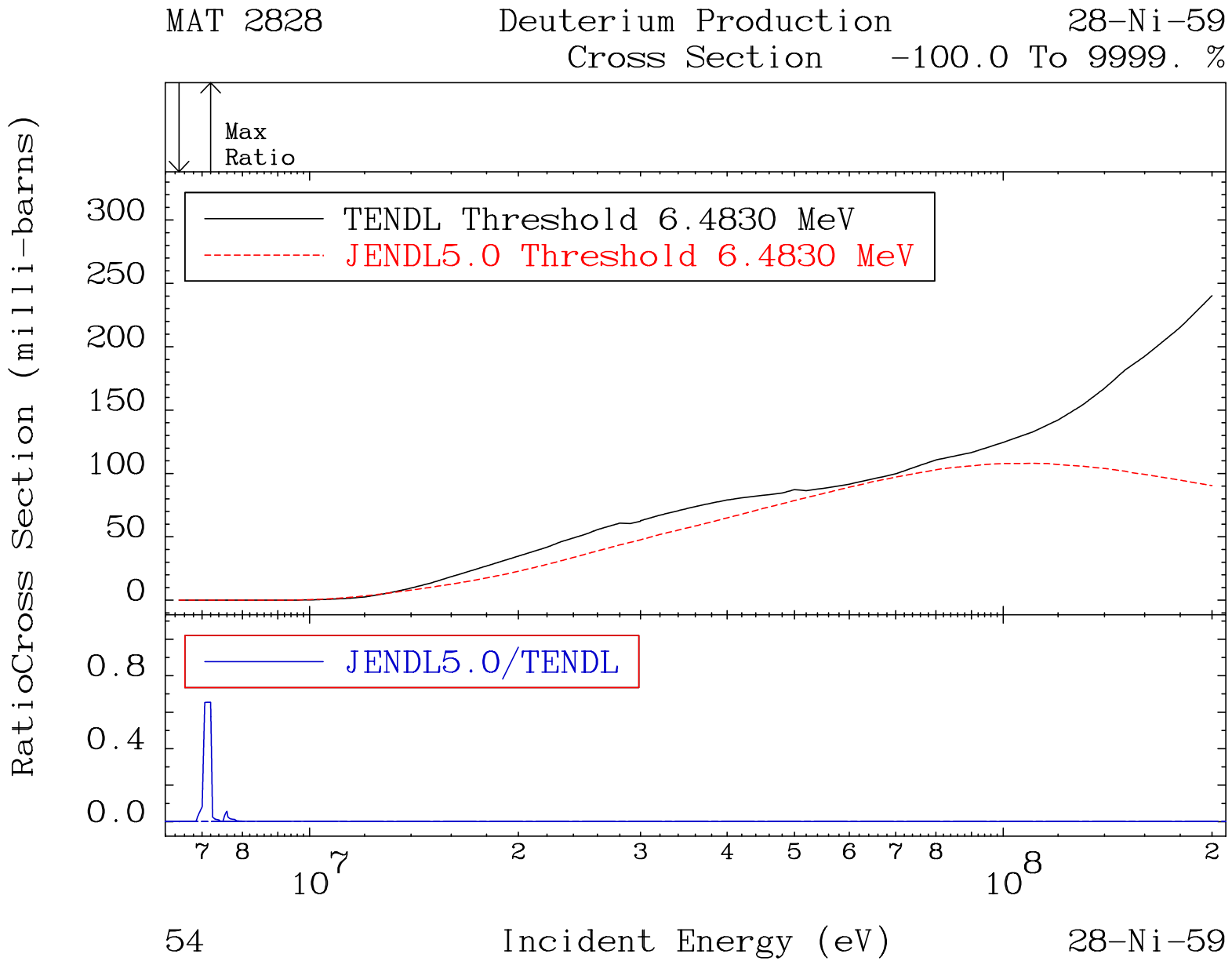

MAT 2828
(n,2p)
Cross Section
28-Ni-59
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 5.6025 MeV
JENDL5.0 Threshold 5.6025 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
25
20
15
10
5
0
60
40
20
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
49
Incident Energy (eV)
28-Ni-59

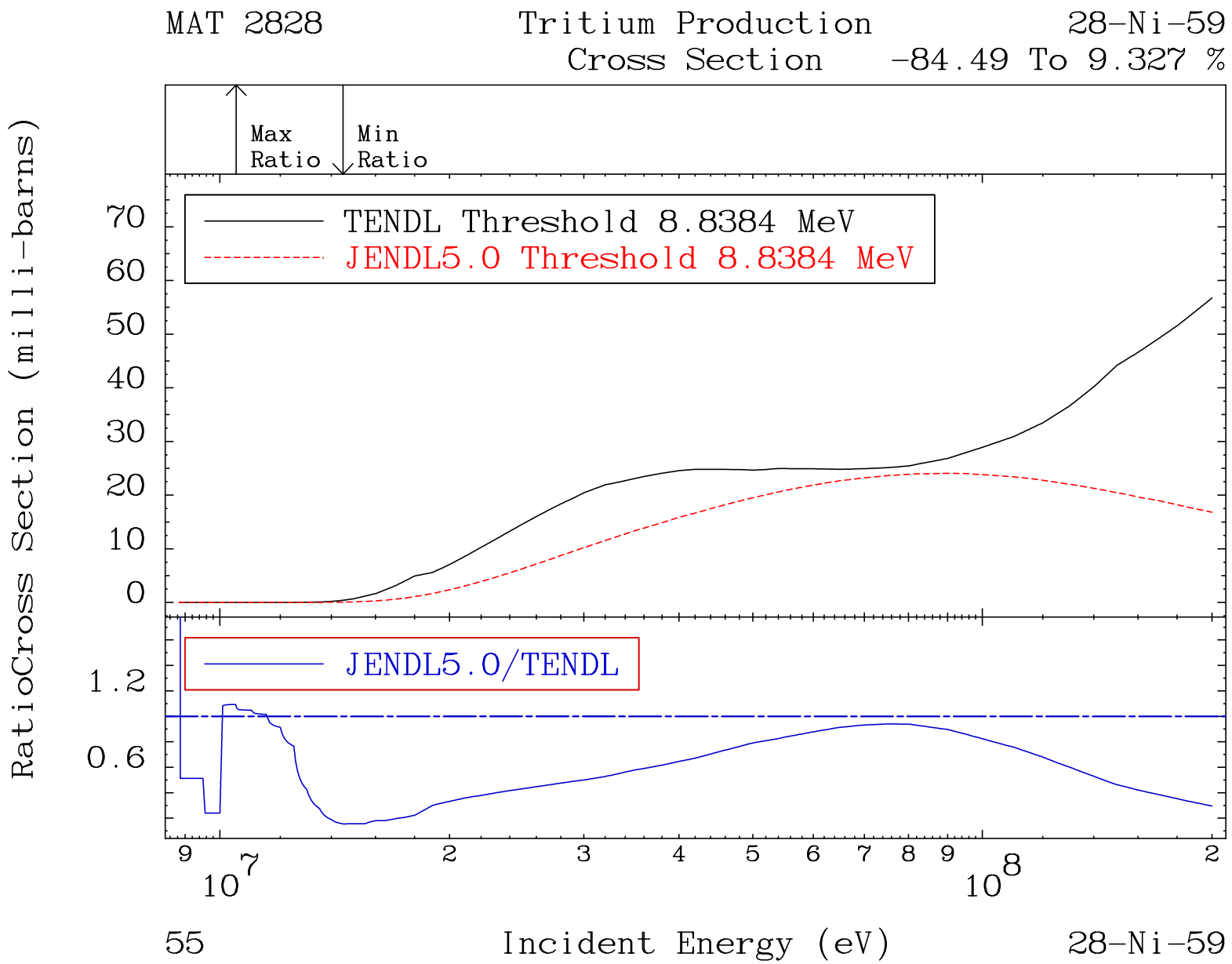

MAT 2828
(n,p) α
28-Ni-59
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.1739 MeV
JENDL5.0 Threshold 5.1739 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
600
400
200
0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
50
Incident Energy (eV)
28-Ni-59

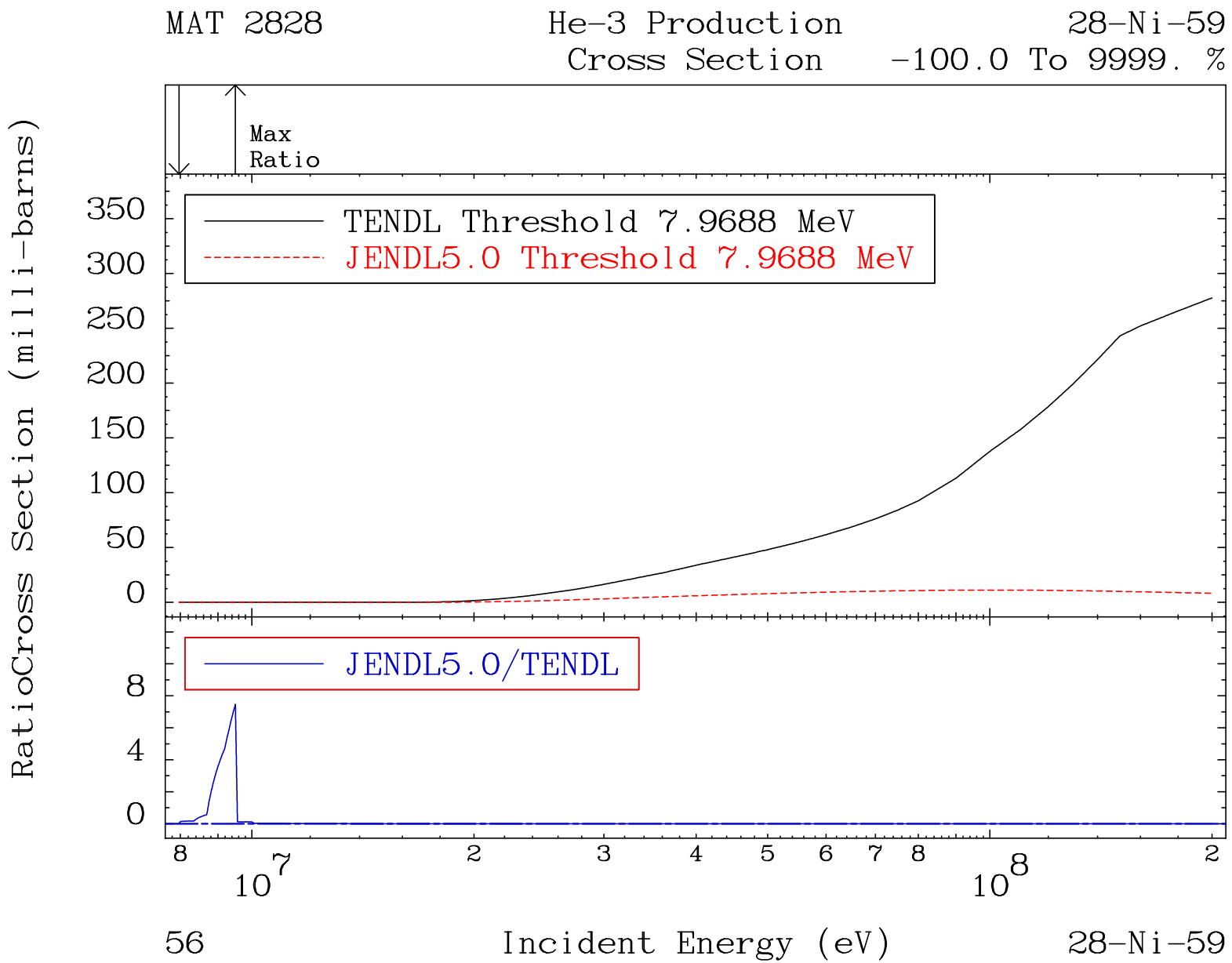

MAT 2828
(n,p) d
Cross Section
28-Ni-59
-100.0 To 193.1 %
Max
Ratio
TENDL Threshold 13.556 MeV
JENDL5.0 Threshold 13.556 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10^8
51
28-Ni-59

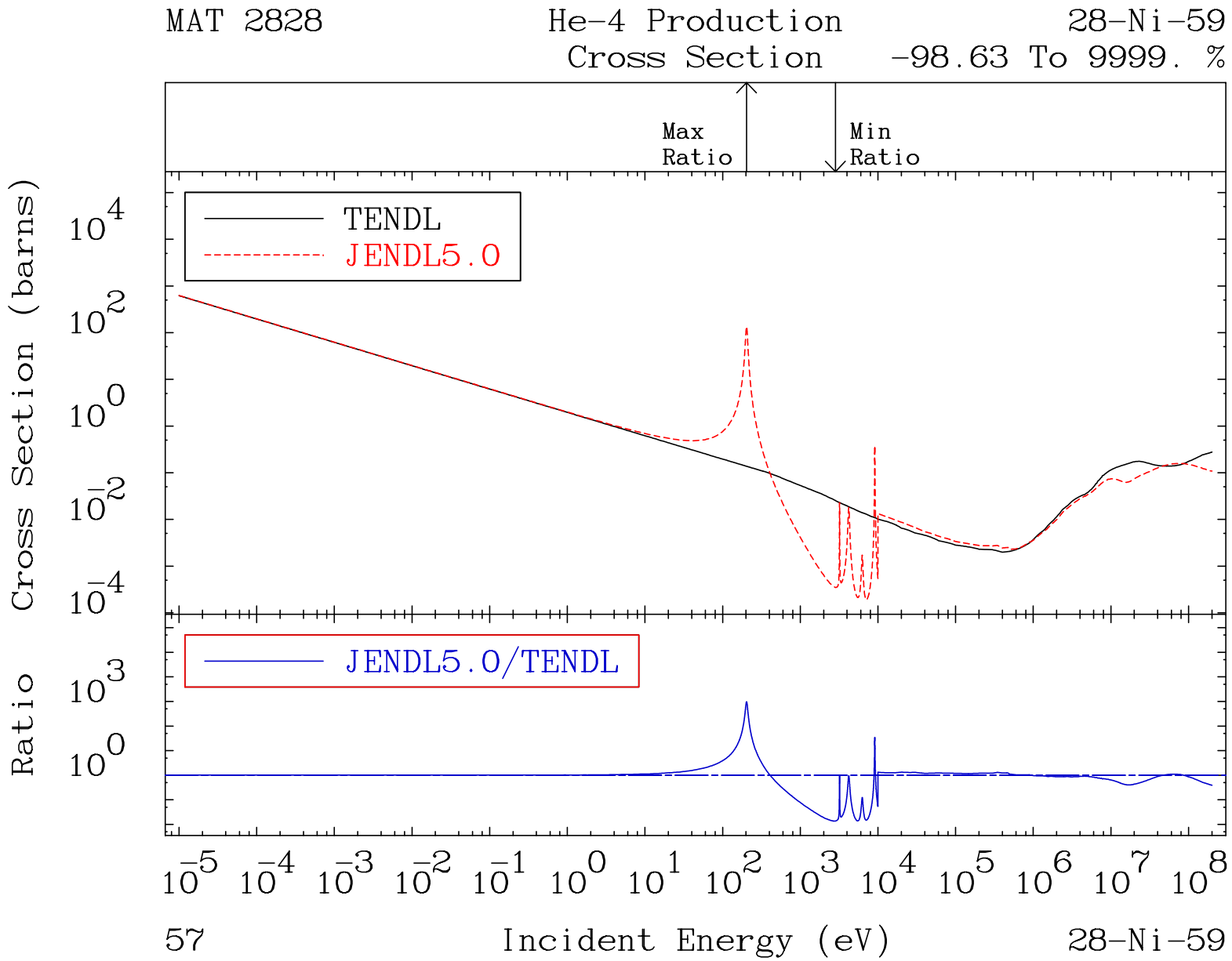

MAT 2828
(n,p) t
Cross Section
28-Ni-59
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 14.969 MeV
JENDL5.0 Threshold 14.969 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
28-Ni-59

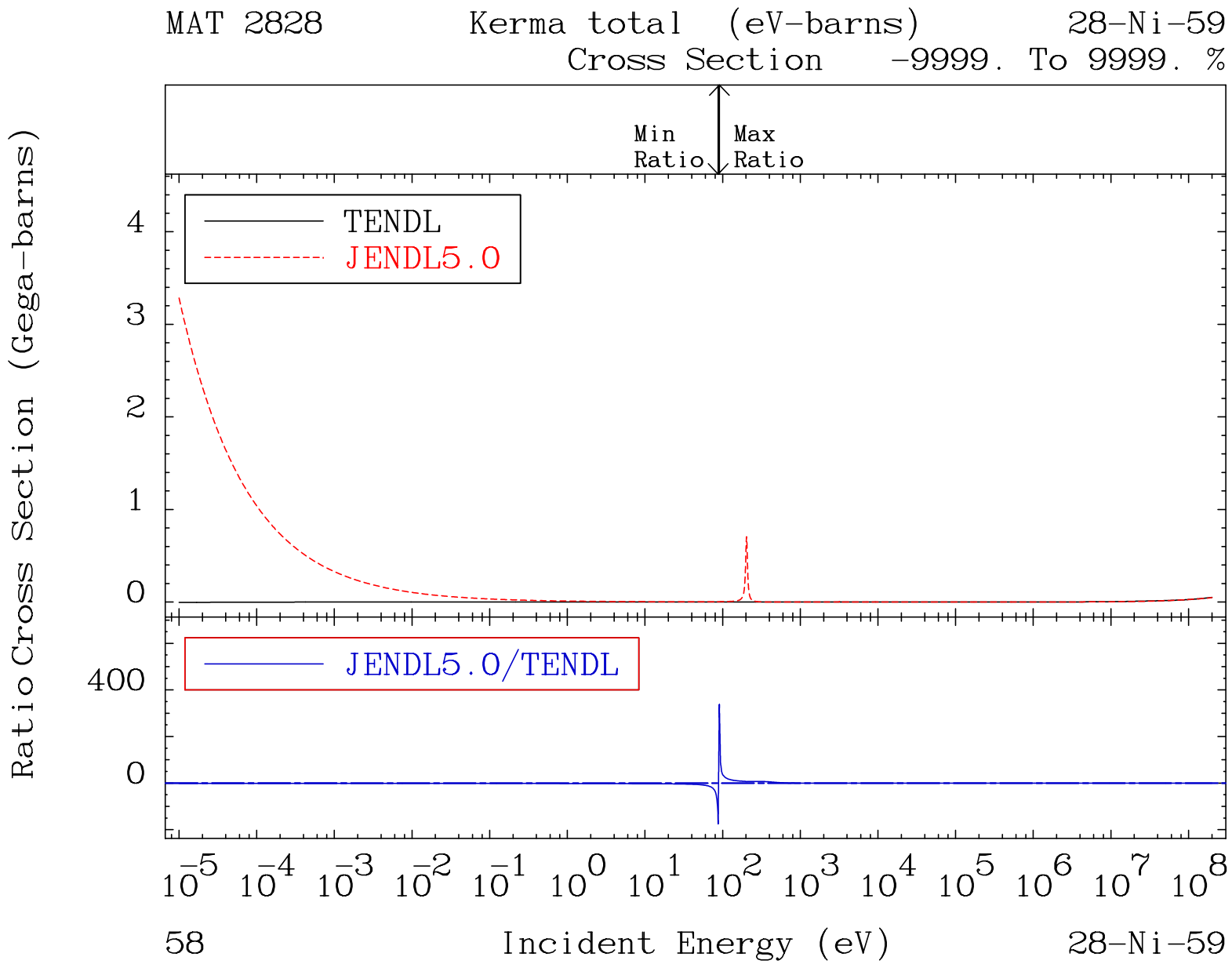

MAT 2828
Hydrogen Production
28-Ni-59
Cross Section
-99.44 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
28-Ni-59

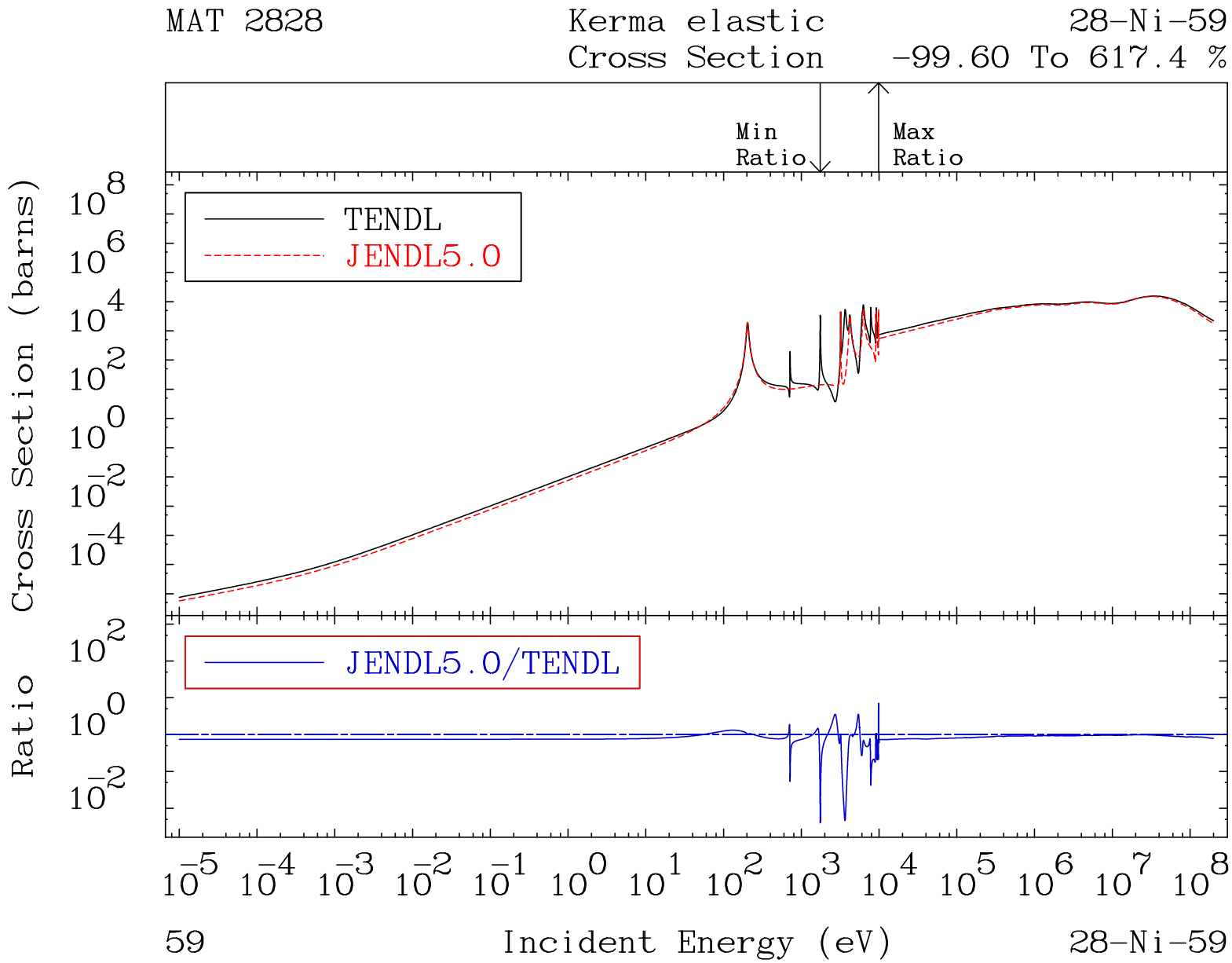

MAT 2828
Deuterium Production
28-Ni-59
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 6.4830 MeV
JENDL5.0 Threshold 6.4830 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
0.8
0.4
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
54
Incident Energy (eV)
28-Ni-59

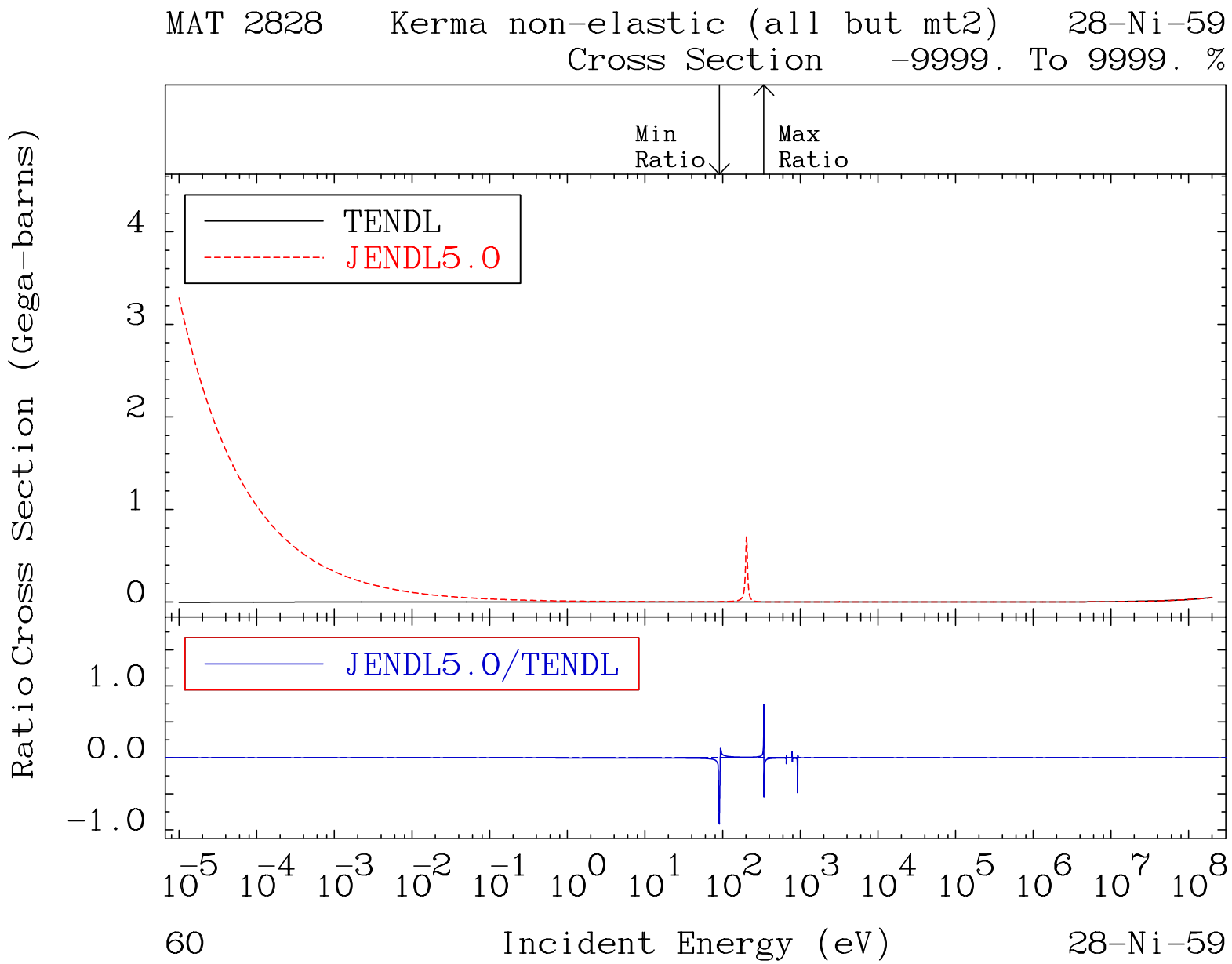

MAT 2828
Tritium Production
28-Ni-59
Cross Section
-84.49 To 9.327 %
Max Ratio
Min Ratio
TENDL Threshold 8.8384 MeV
JENDL5.0 Threshold 8.8384 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
1.2
0.6
9
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
28-Ni-59

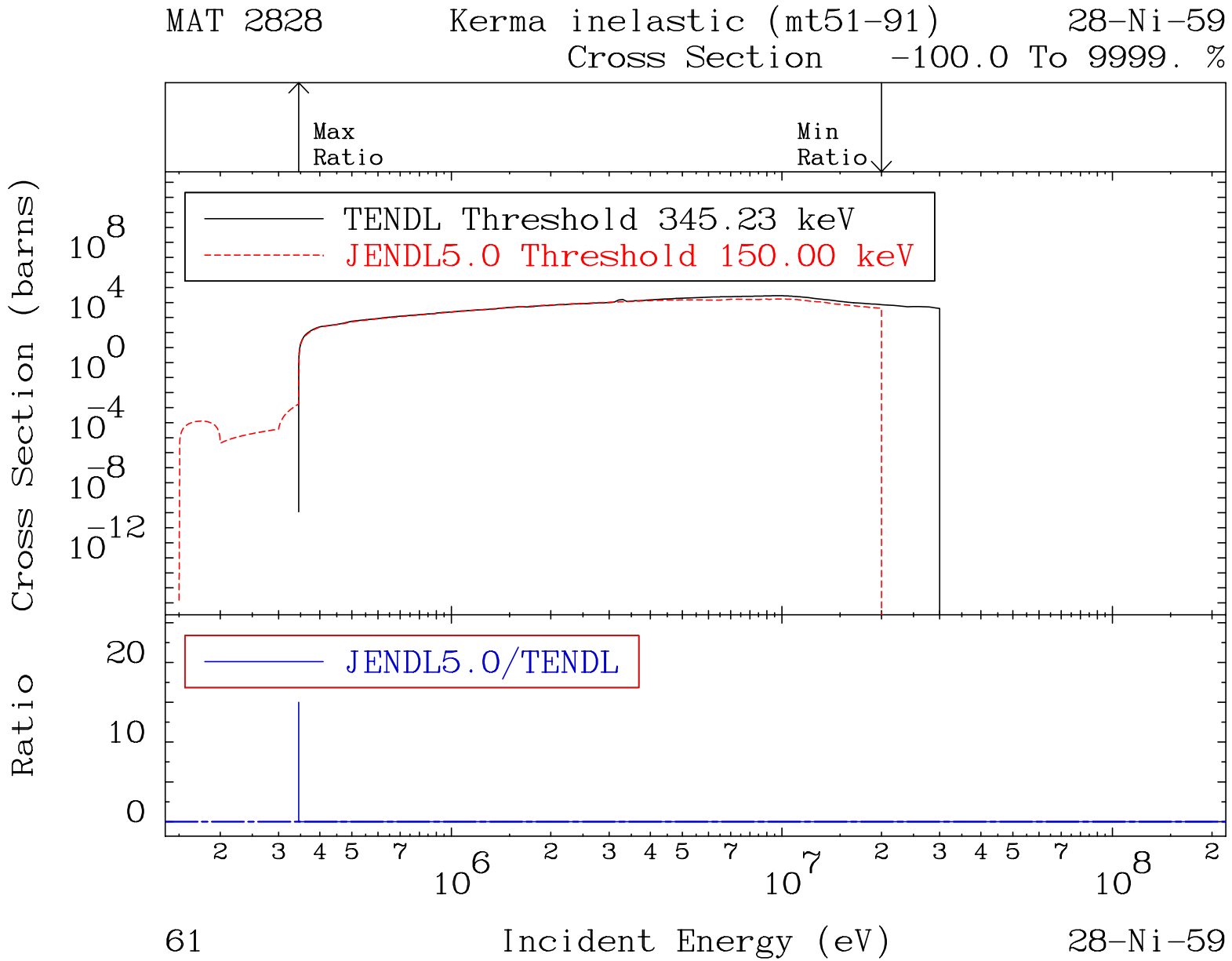

MAT 2828
He-3 Production
Cross Section
28-Ni-59
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 7.9688 MeV
JENDL5.0 Threshold 7.9688 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
8
4
0
8
2
3
4
5
6
7
8
2
10^7
10^8
56
Incident Energy (eV)
28-Ni-59

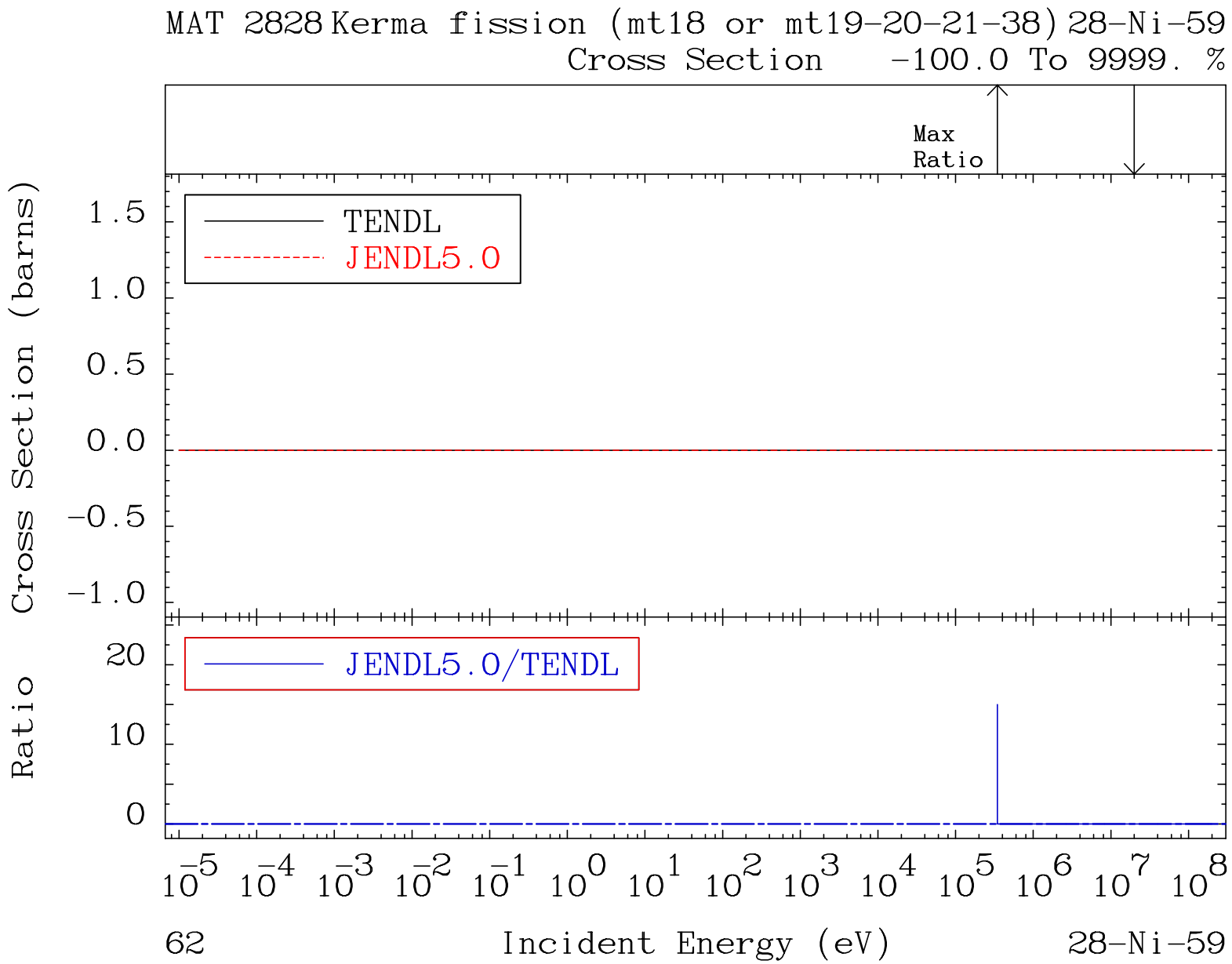

MAT 2828
He-4 Production
Cross Section
28-Ni-59
-98.63 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
28-Ni-59

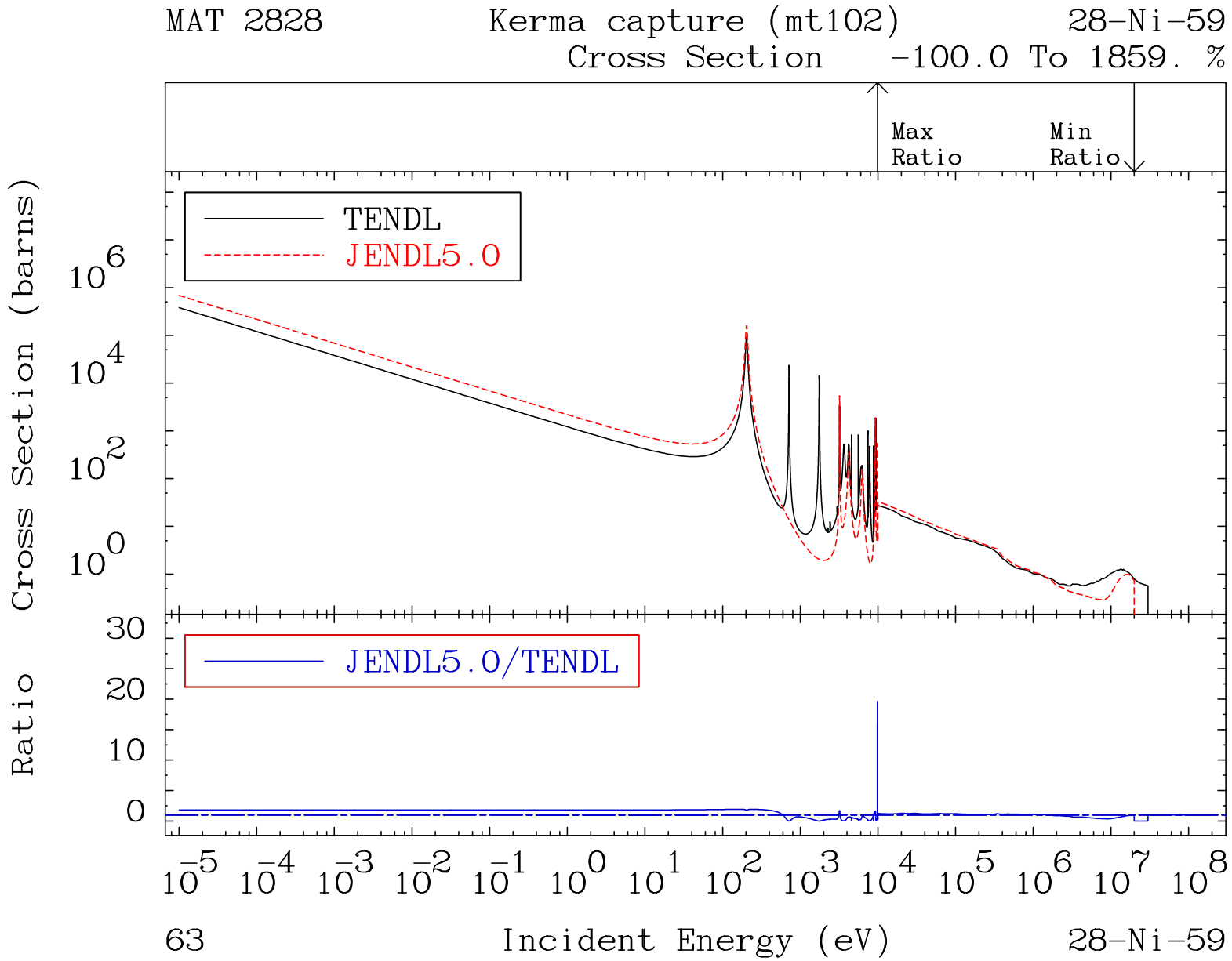

MAT 2828
Kerma total (eV-barns)
28-Ni-59
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Giga-barns)
4
3
2
1
0
400
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
58
Incident Energy (eV)
28-Ni-59

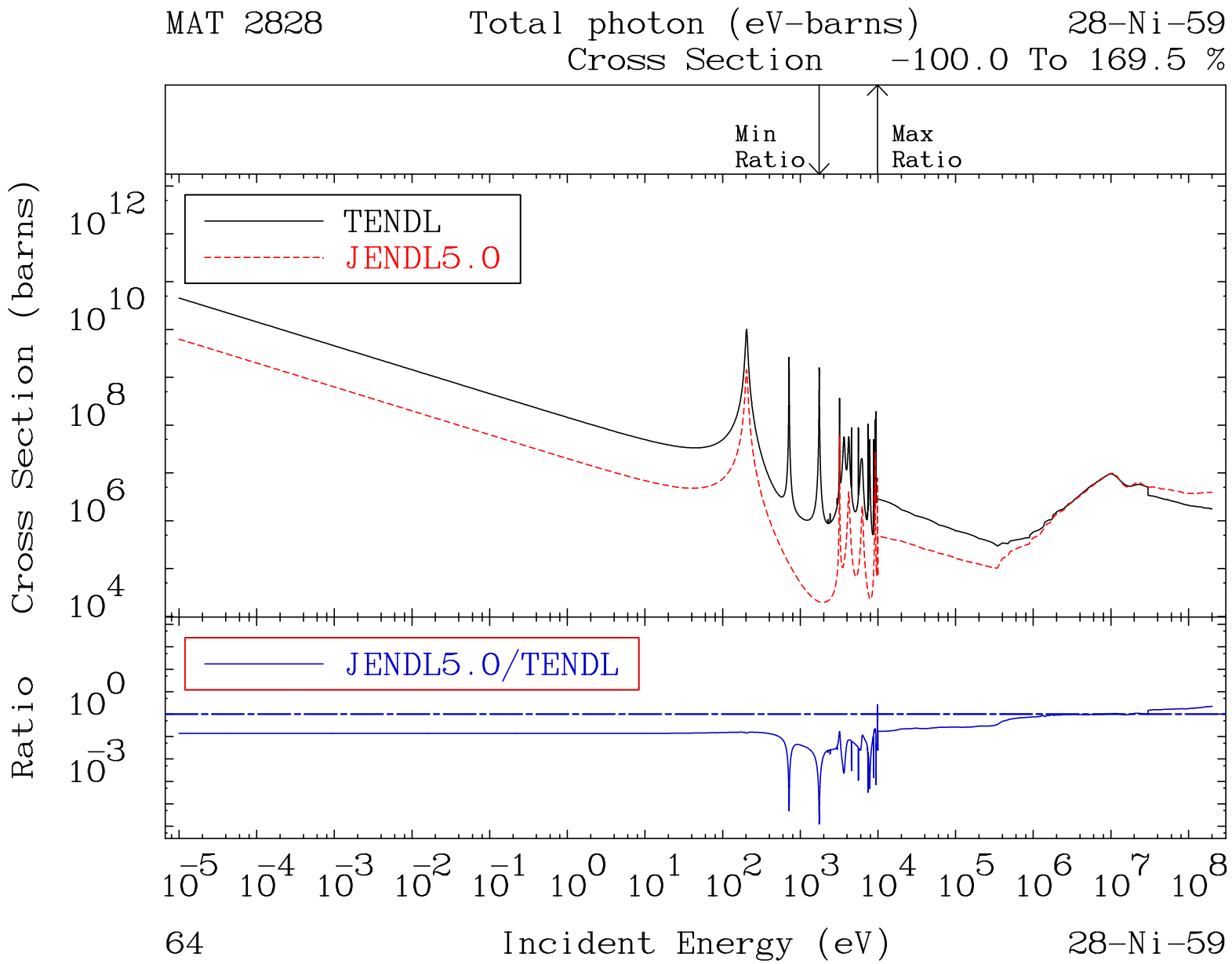

MAT 2828
Kerma elastic
Cross Section
28-Ni-59
-99.60 To 617.4 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
28-Ni-59

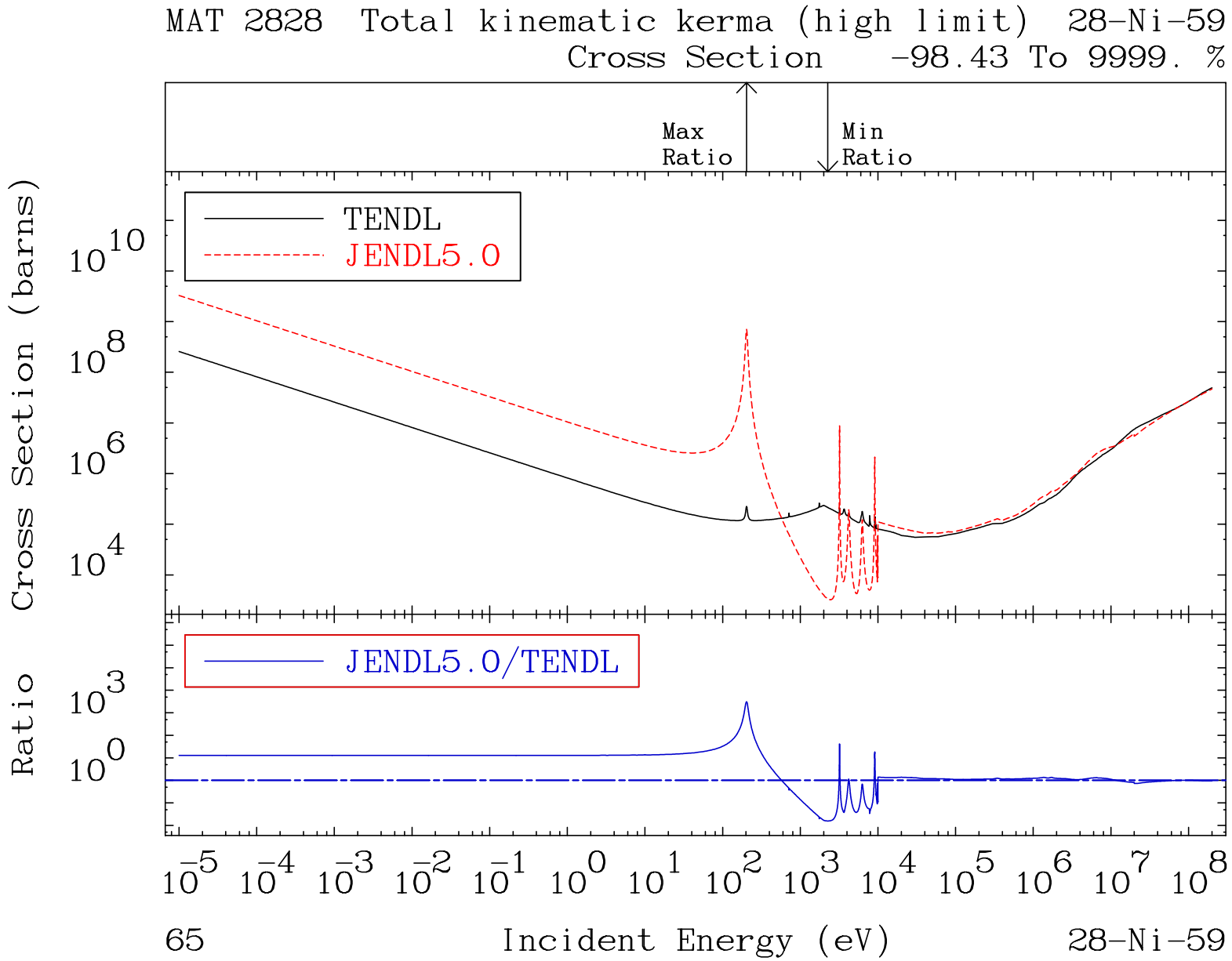

MAT 2828 Kerma non-elastic (all but mt2) 28-Ni-59
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Giga-barns)
4
3
2
1
0
1.0
0.0
-1.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
60
Incident Energy (eV)
28-Ni-59

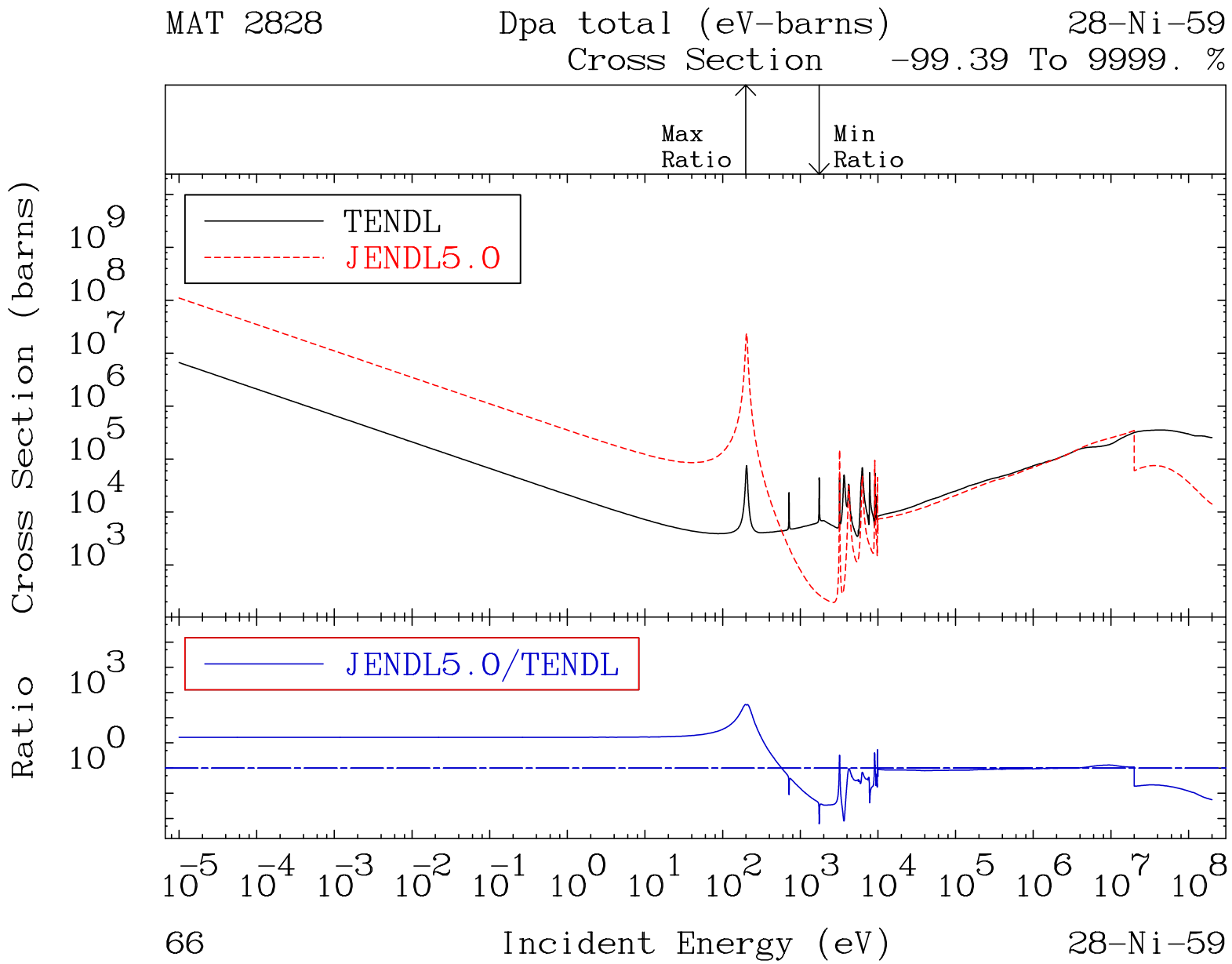

MAT 2828
Kerma inelastic (mt51-91)
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 345.23 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
61
28-Ni-59

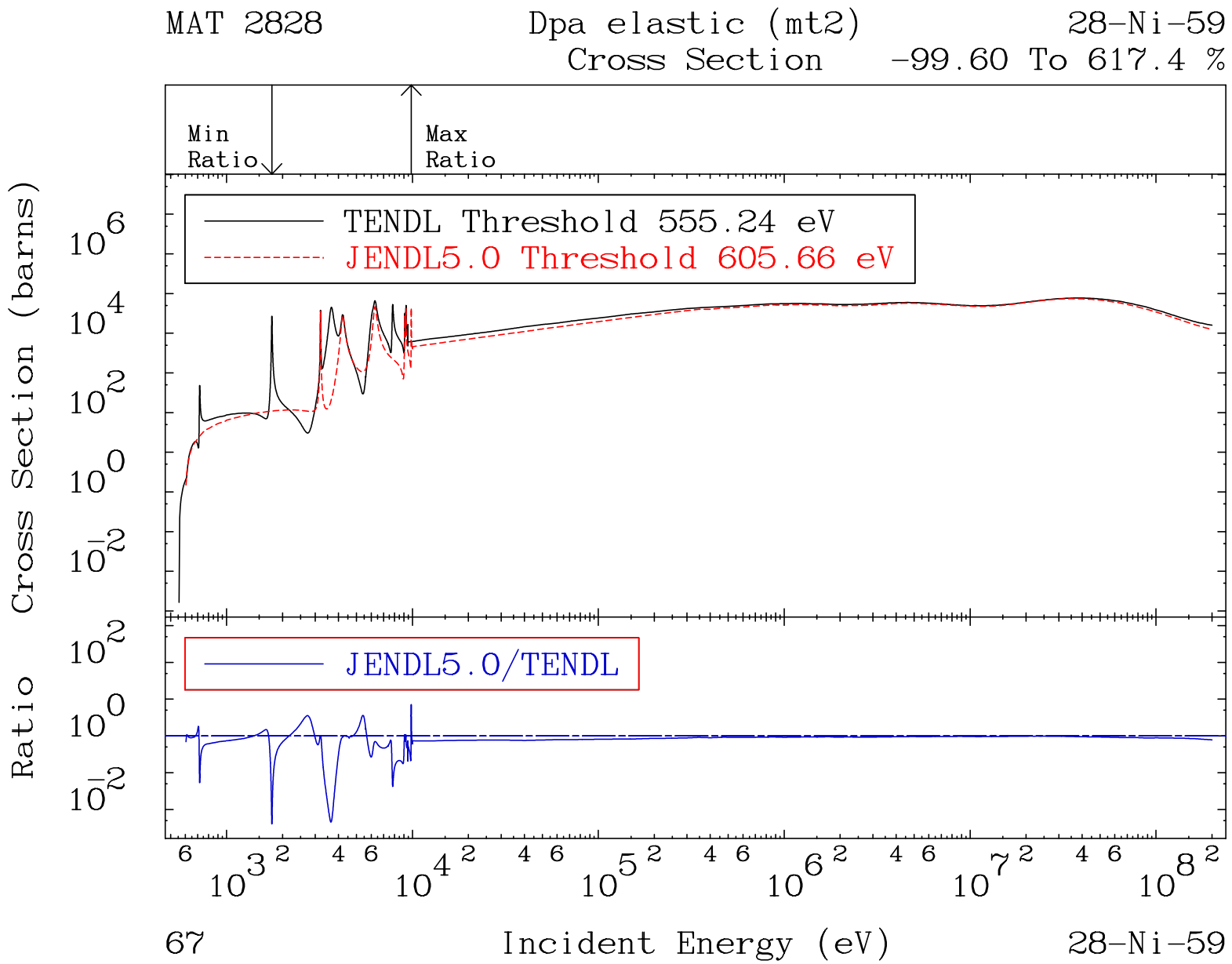

MAT 2828 Kerma fission (mt18 or mt19-20-21-38) 28-Ni-59
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
20
10
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
62
Incident Energy (eV)
28-Ni-59

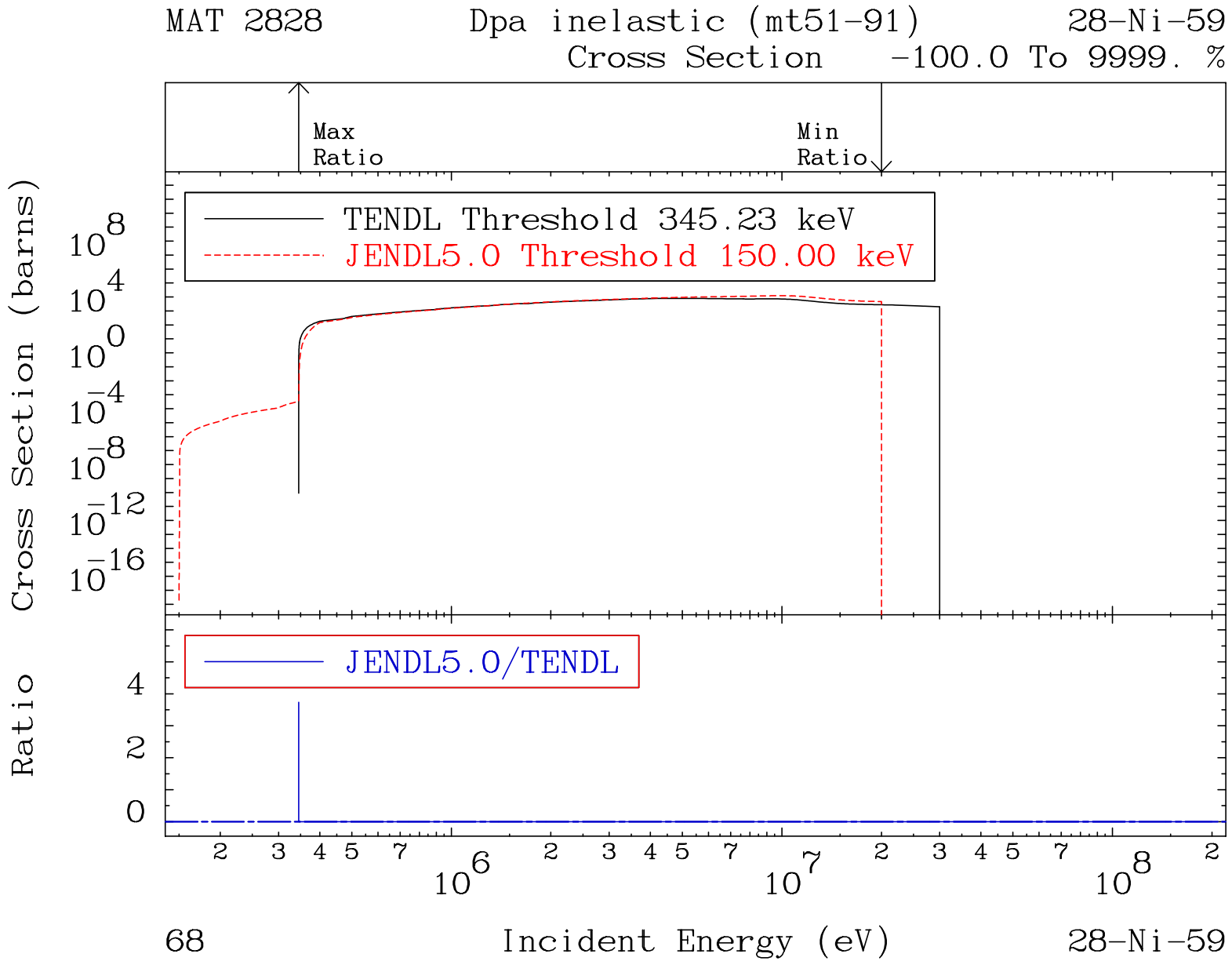

MAT 2828
Kerma capture (mt102)
28-Ni-59
Cross Section -100.0 To 1859. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
28-Ni-59

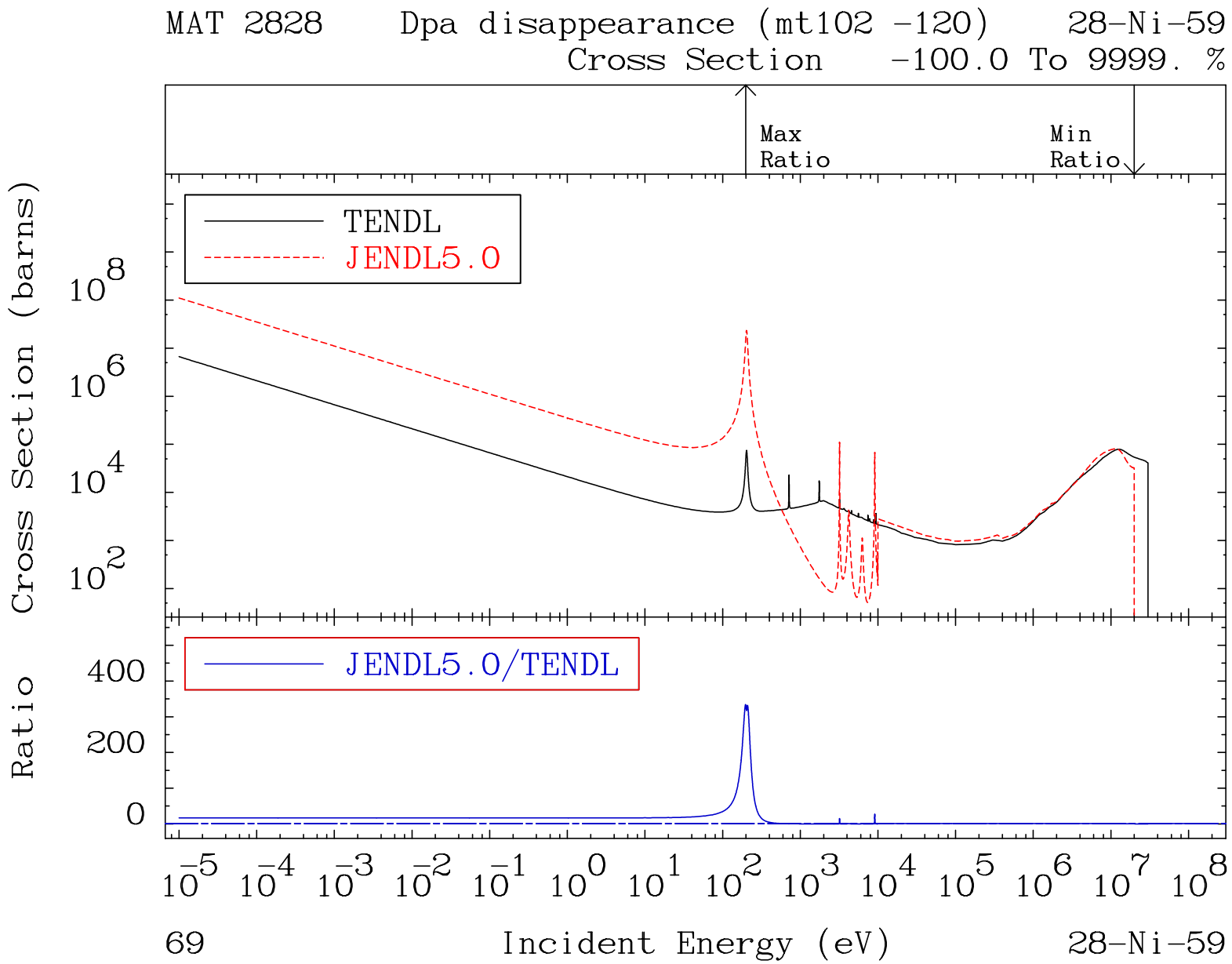

MAT 2828
Total photon (eV-barns)
28-Ni-59
Cross Section -100.0 To 169.5 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
64
28-Ni-59

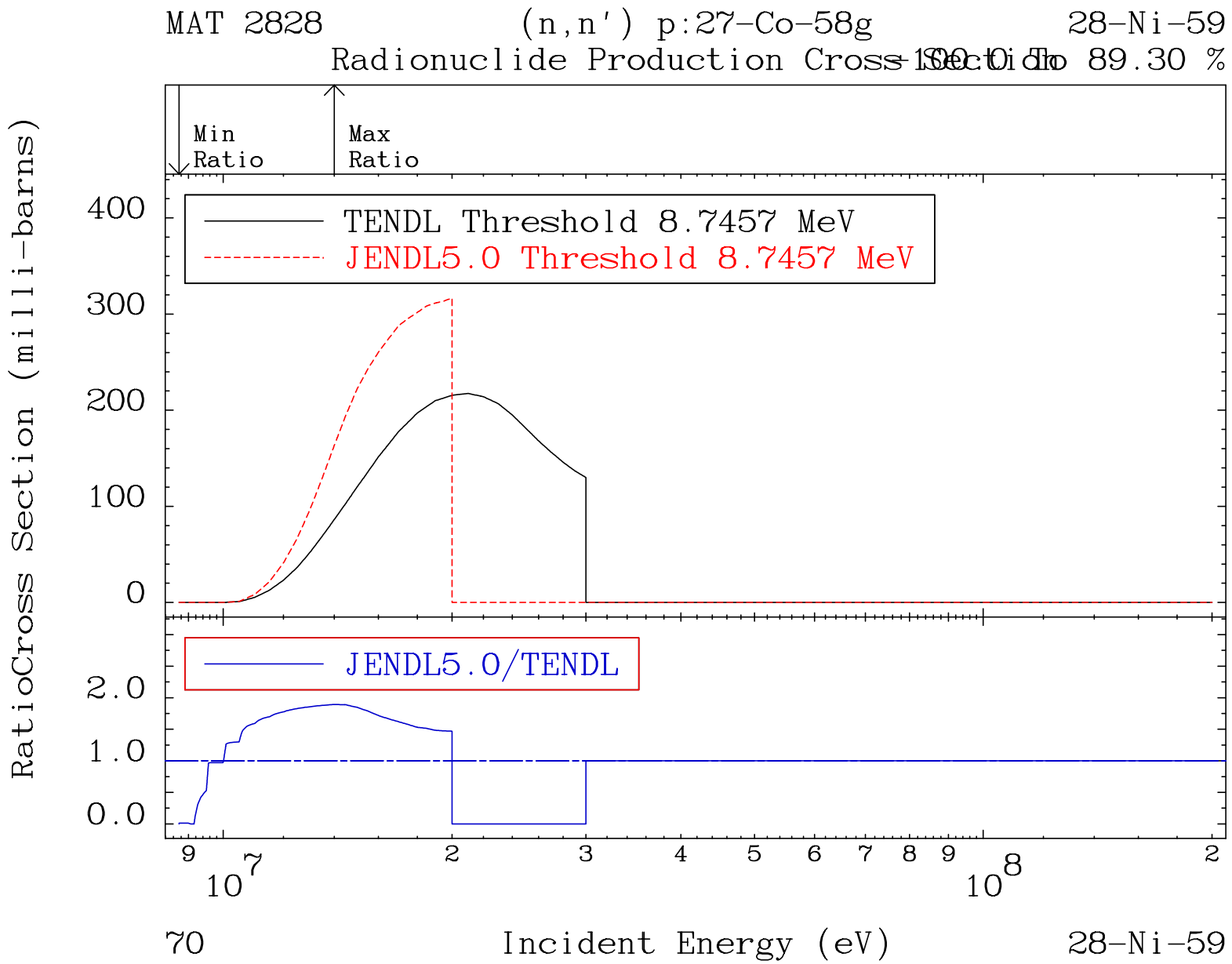

MAT 2828 Total kinematic kerma (high limit) 28-Ni-59
Cross Section -98.43 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
28-Ni-59

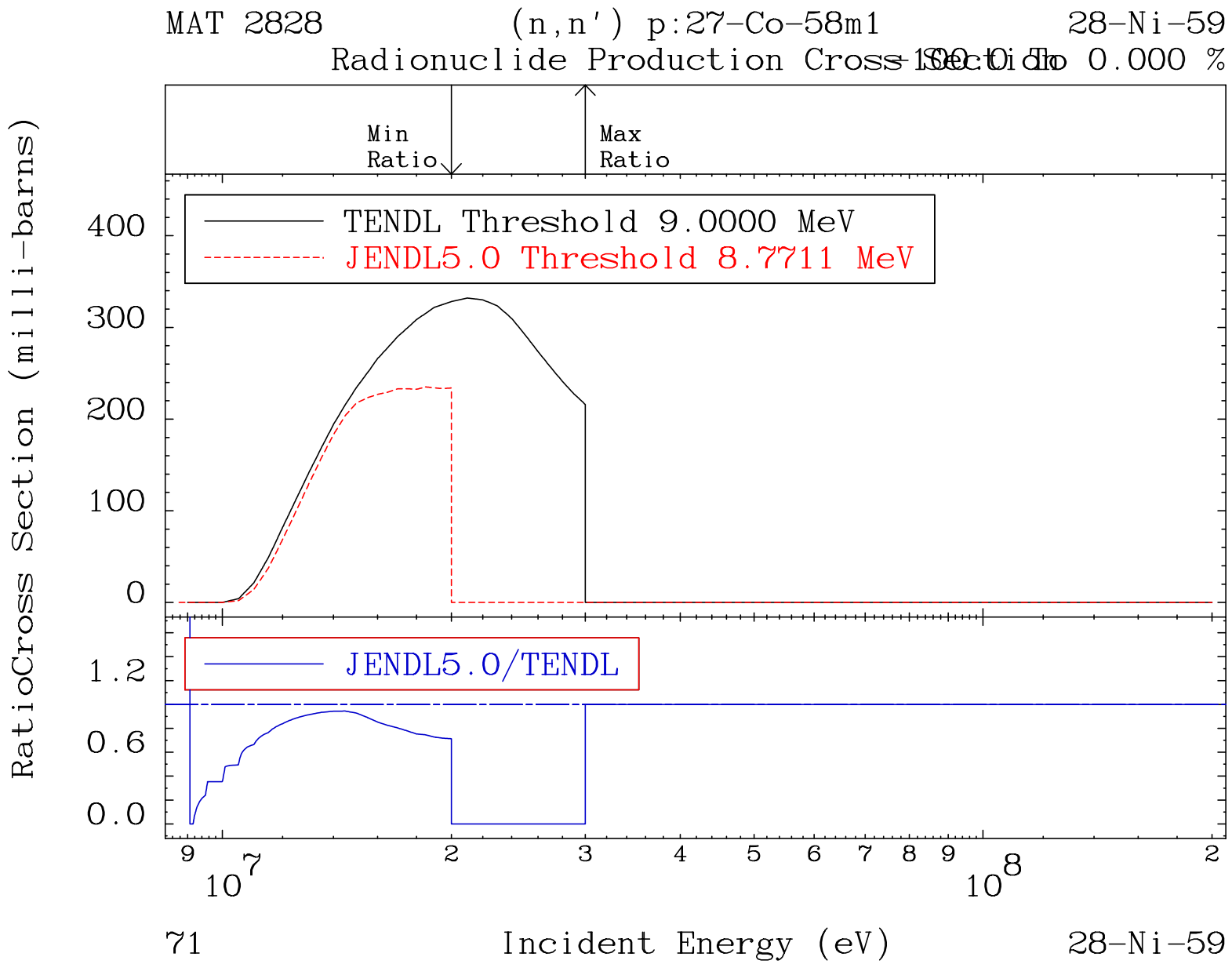

MAT 2828
Dpa total (eV-barns)
28-Ni-59
Cross Section -99.39 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
66
Incident Energy (eV)
28-Ni-59

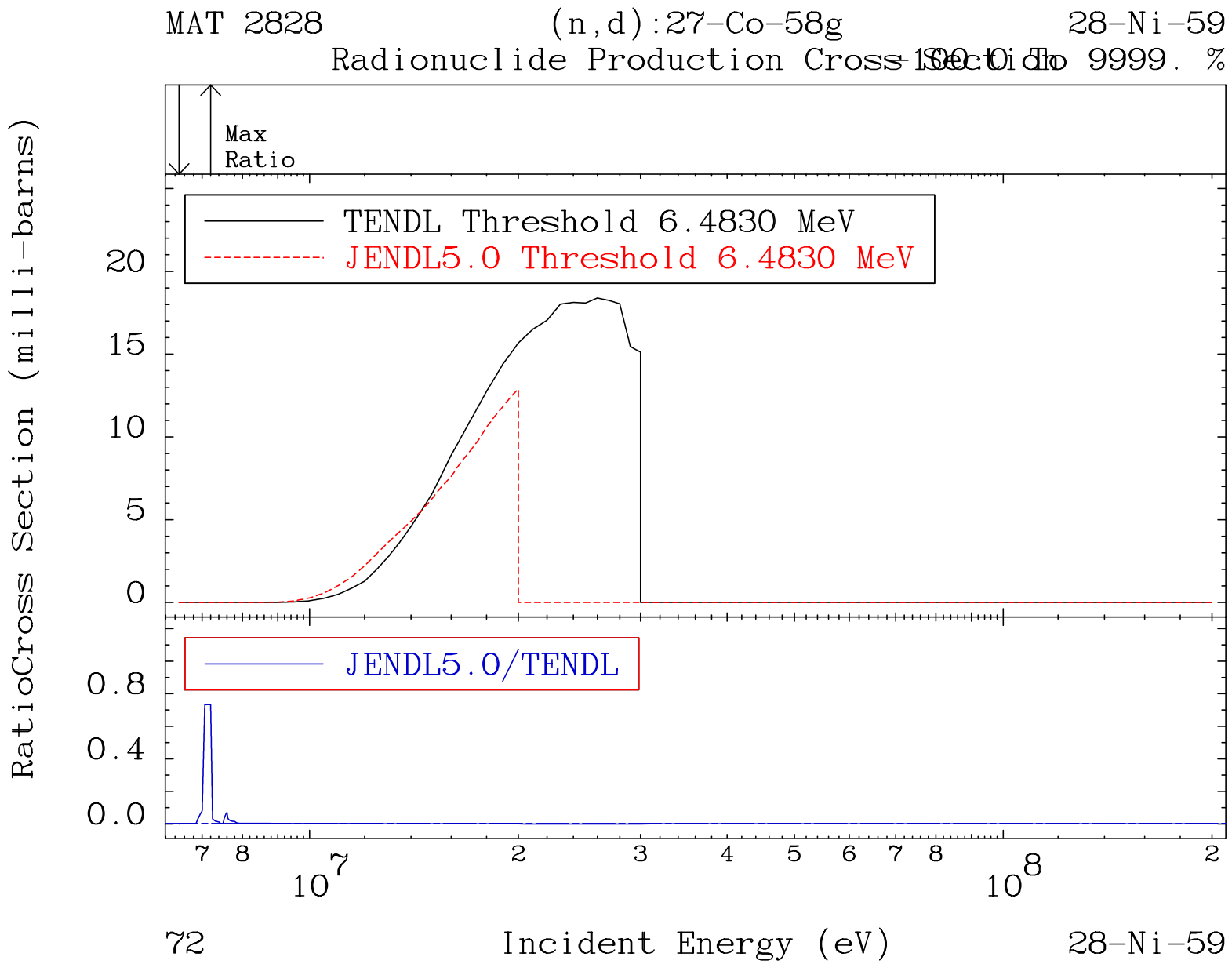

MAT 2828
Dpa elastic (mt2)
Cross Section
28-Ni-59
-99.60 To 617.4 %
Min Ratio
Max Ratio
TENDL Threshold 555.24 eV
JENDL5.0 Threshold 605.66 eV
JENDL5.0/TENDL
Ratio Cross Section (barns)
Incident Energy (eV)
67
28-Ni-59

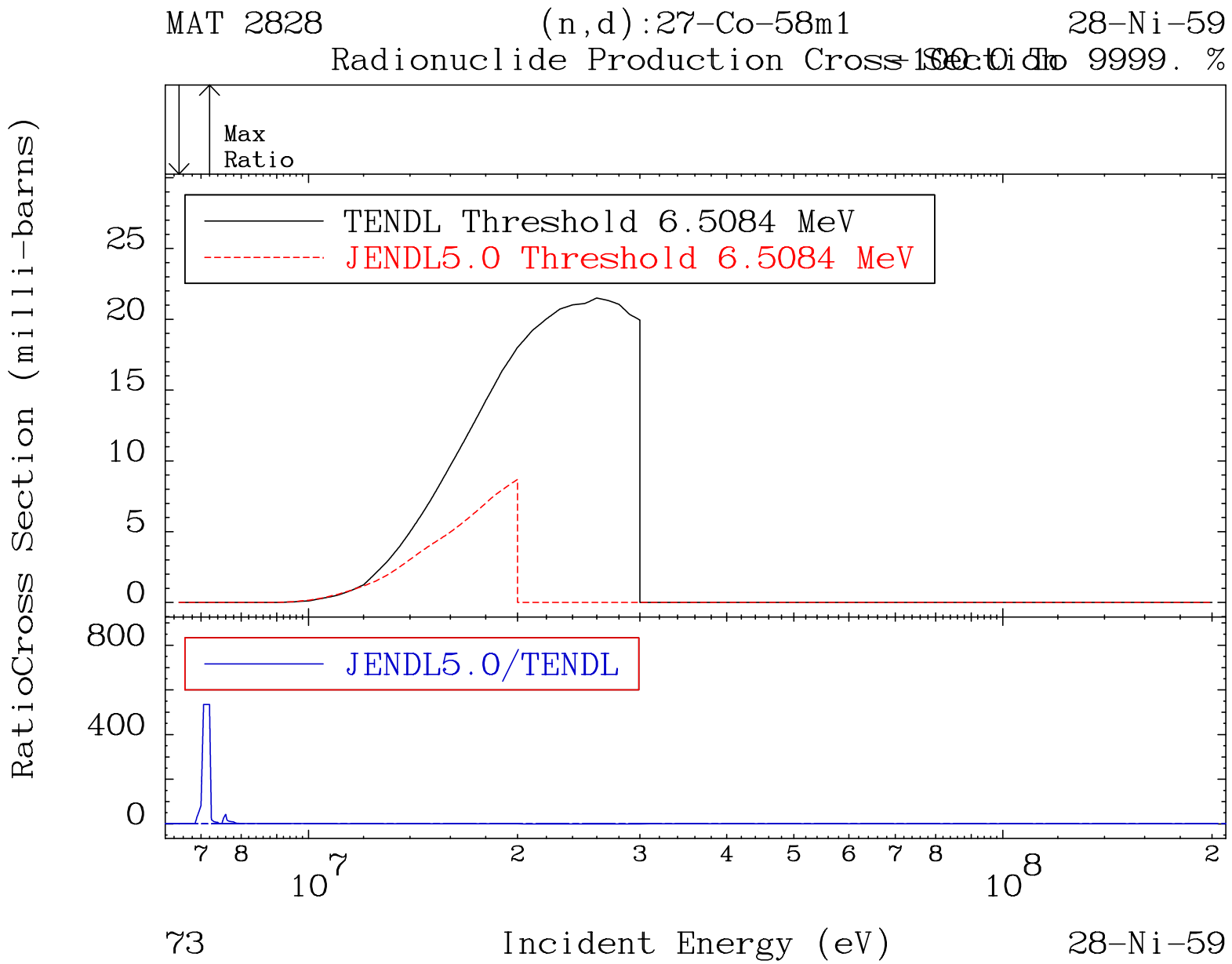

MAT 2828
Dpa inelastic (mt51-91)
28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 345.23 keV
JENDL5.0 Threshold 150.00 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
68
28-Ni-59

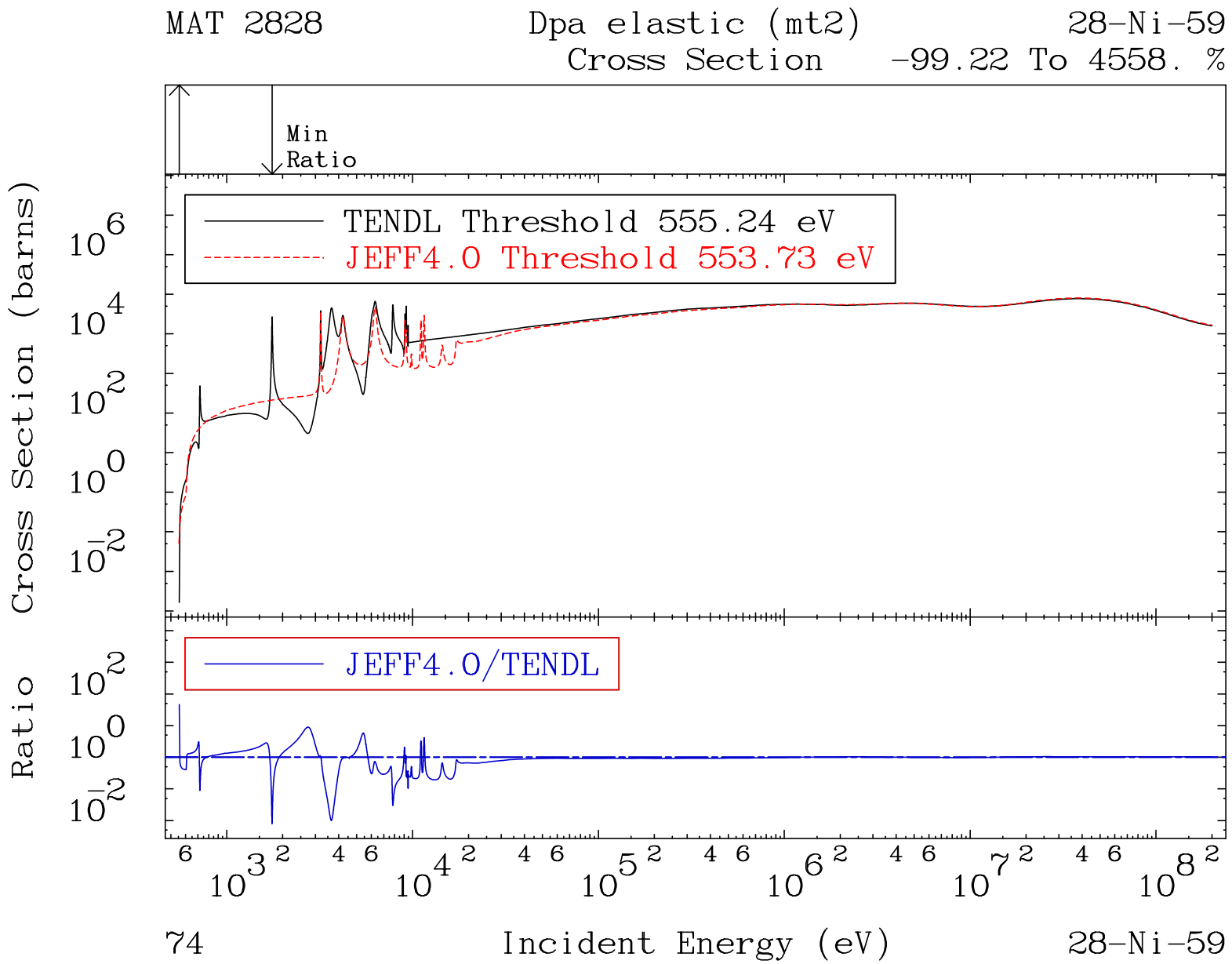

MAT 2828 Dpa disappearance (mt102 -120) 28-Ni-59
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^8
10^6
10^4
10^2
JENDL5.0/TENDL
Ratio
400
200
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
69
Incident Energy (eV)
28-Ni-59

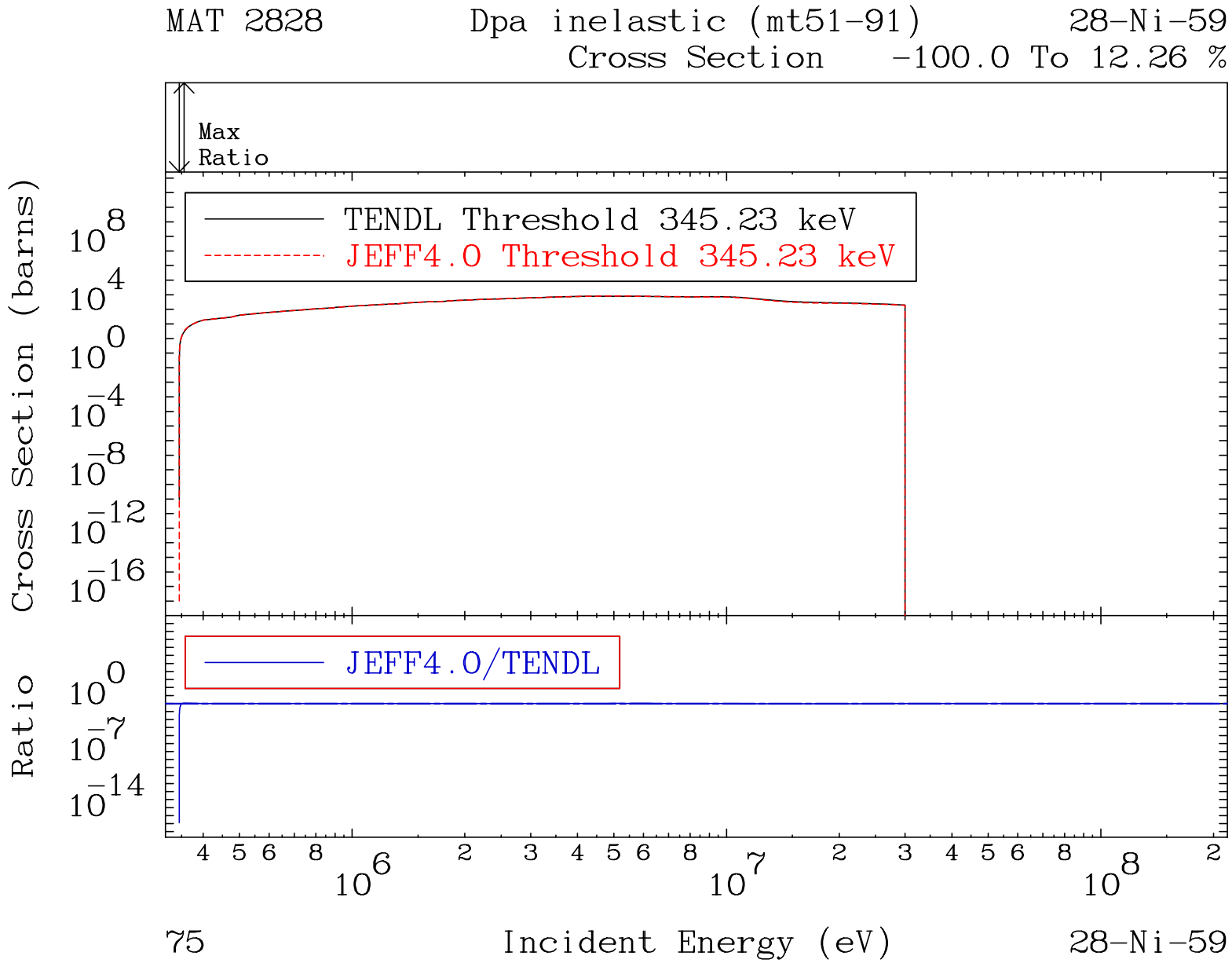

MAT 2828
(n,n') p:27-Co-58g
28-Ni-59
Radionuclide Production Cross Section To 89.30 %
Min Ratio
Max Ratio
TENDL Threshold 8.7457 MeV
JENDL5.0 Threshold 8.7457 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
70
Incident Energy (eV)
28-Ni-59

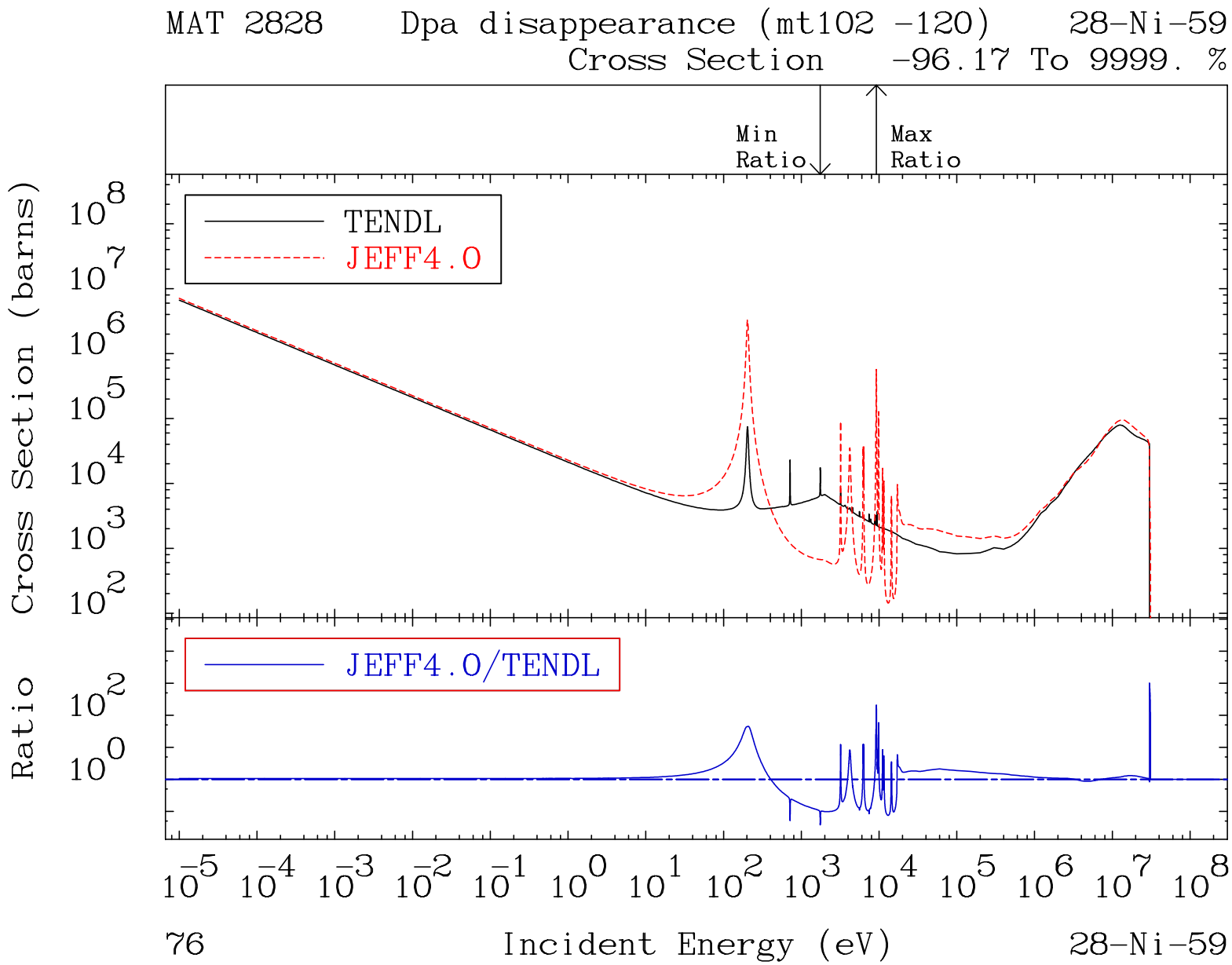

MAT 2828
(n,n') p:27-Co-58m1
28-Ni-59
Radionuclide Production Cross Section
Uncertainty 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.0000 MeV
JENDL5.0 Threshold 8.7711 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
71
Incident Energy (eV)
28-Ni-59

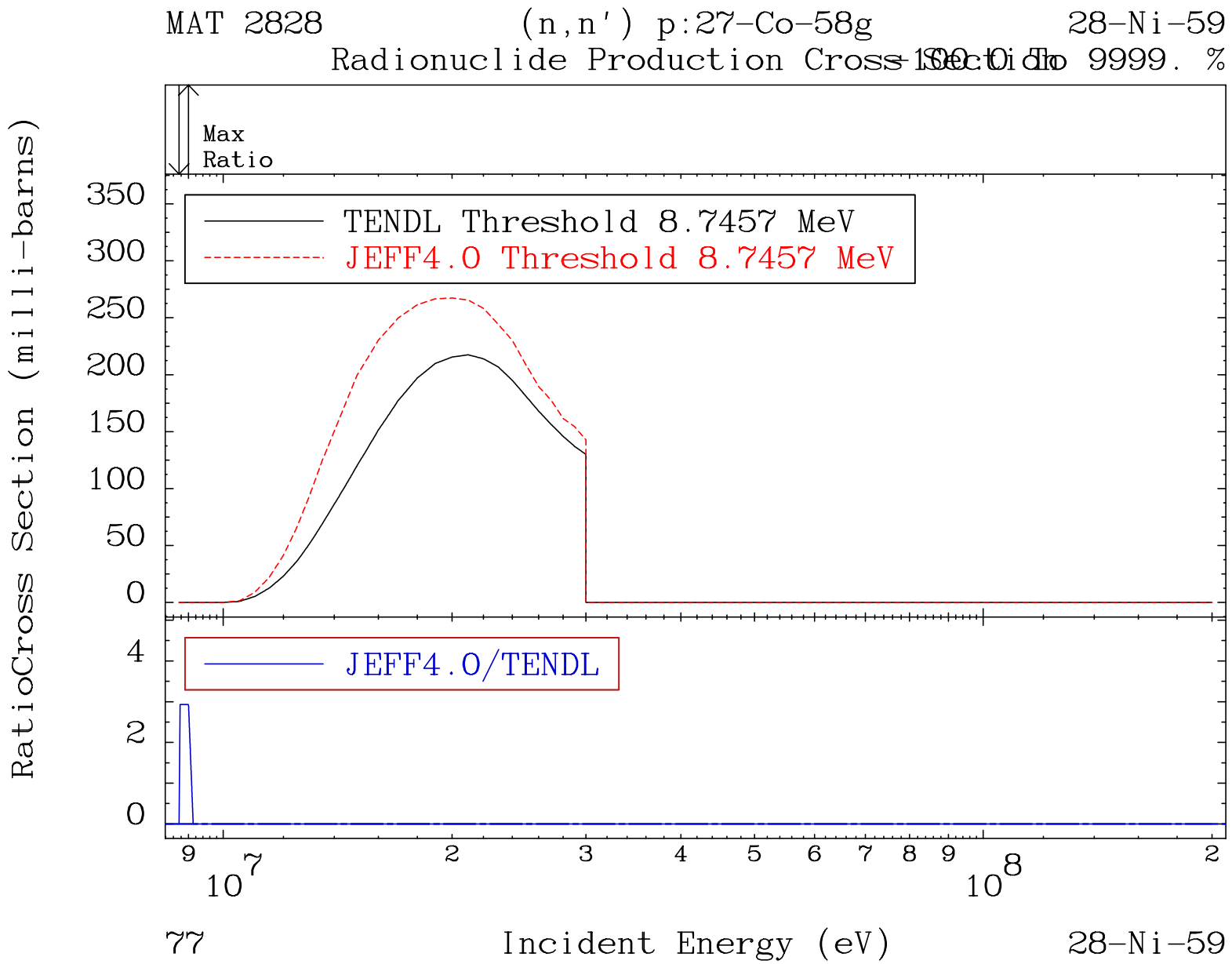

MAT 2828
(n,d):27-Co-58g
28-Ni-59
Radionuclide Production Cross Section
1.00 To 9999. %
Max
Ratio
TENDL Threshold 6.4830 MeV
JENDL5.0 Threshold 6.4830 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
0.8
0.4
0.0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
72
Incident Energy (eV)
28-Ni-59

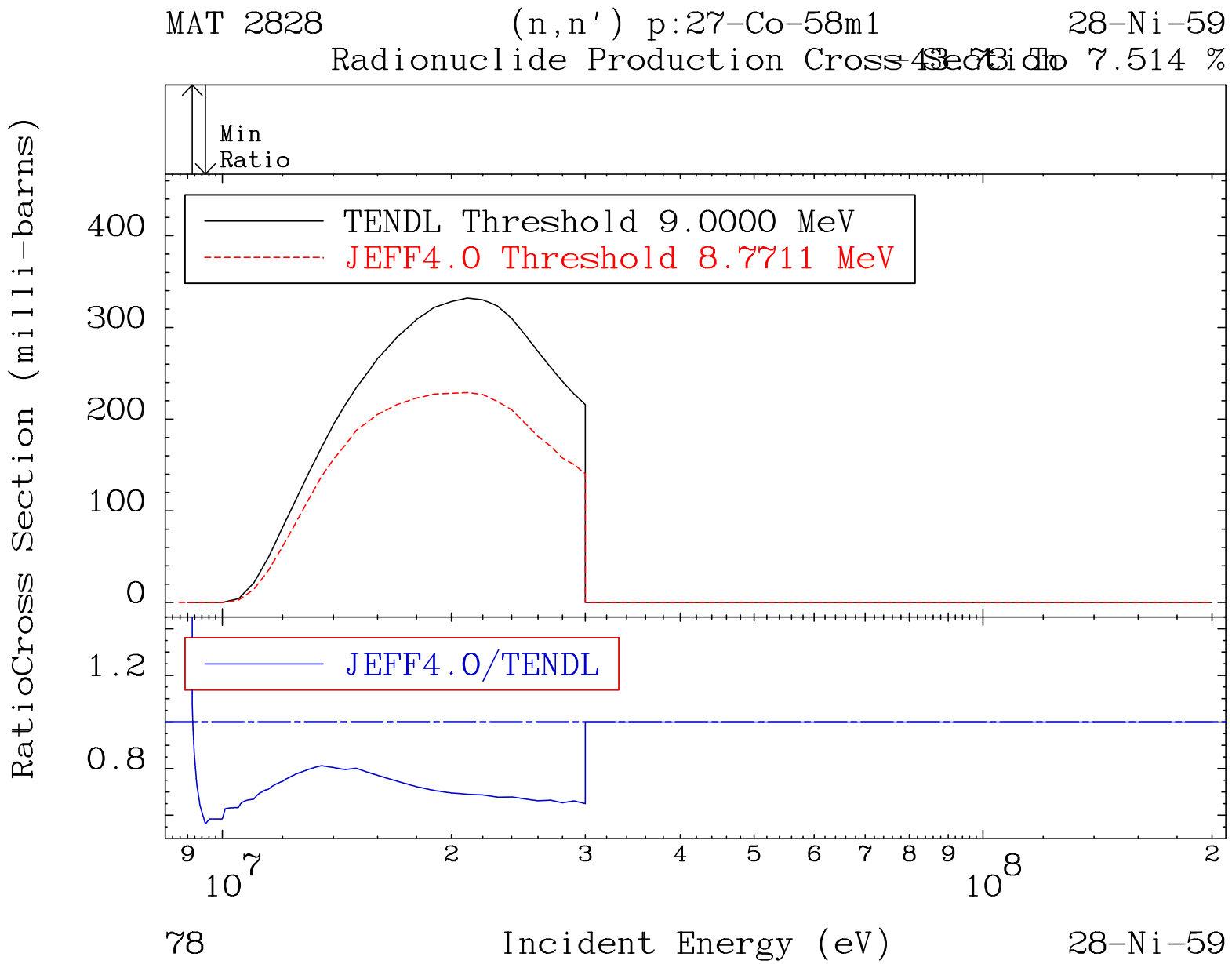

MAT 2828
(n,d):27-Co-58m1
28-Ni-59
Radionuclide Production Cross Section
1.00 To 9999. %
Max
Ratio
TENDL Threshold 6.5084 MeV
JENDL5.0 Threshold 6.5084 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
800
400
0
7 8
10^7
2 3 4 5 6 7 8
10^8
2
73
Incident Energy (eV)
28-Ni-59

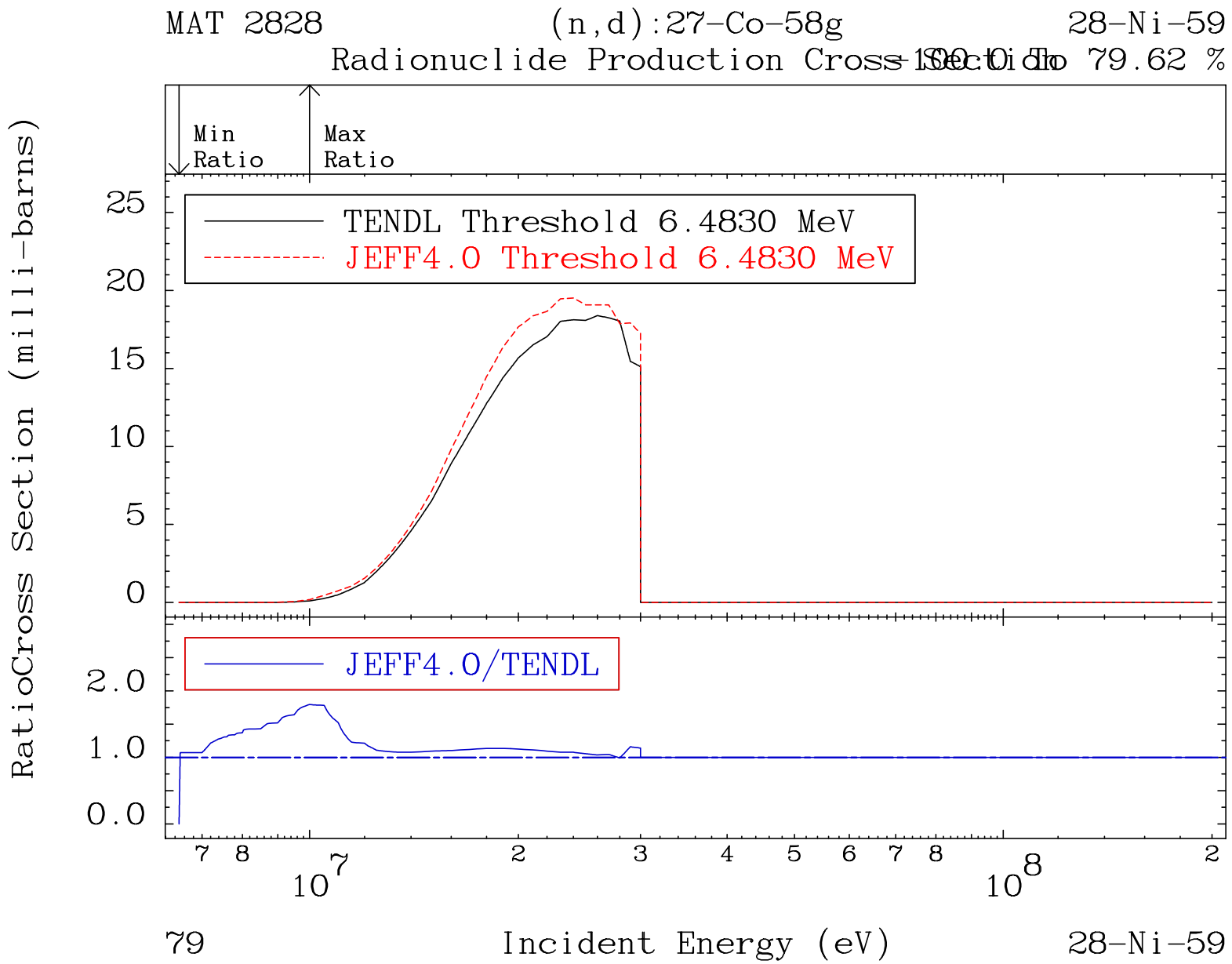

MAT 2828
Dpa elastic (mt2)
Cross Section
28-Ni-59
-99.22 To 4558. %
Min
Ratio
TENDL Threshold 555.24 eV
JEFF4.0 Threshold 553.73 eV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
28-Ni-59

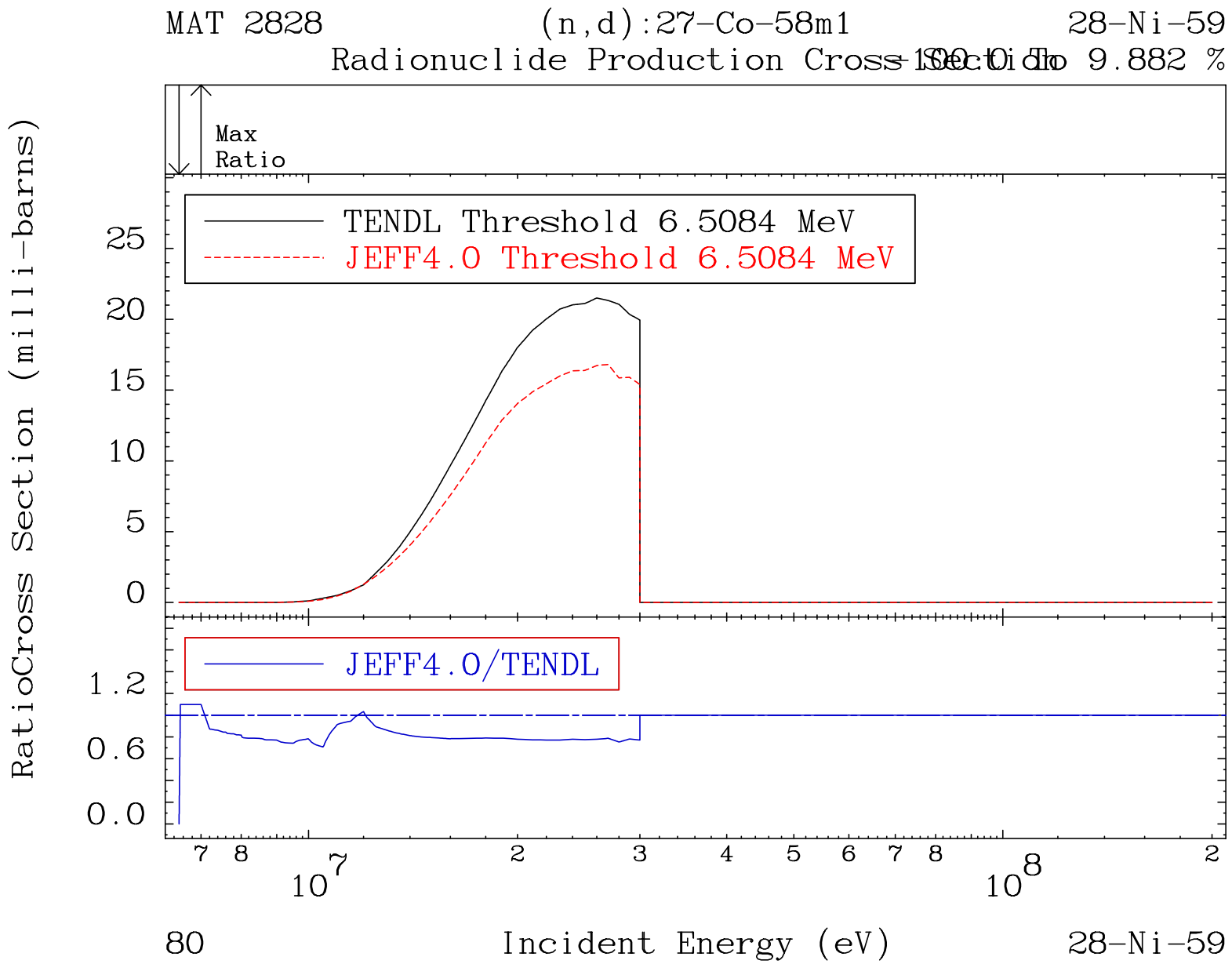

MAT 2828
Dpa inelastic (mt51-91)
28-Ni-59
Cross Section
-100.0 To 12.26 %
Max
Ratio
TENDL Threshold 345.23 keV
JEFF4.0 Threshold 345.23 keV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
28-Ni-59


MAT 2828 Dpa disappearance (mt102 -120) 28-Ni-59
Cross Section -96.17 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
28-Ni-59


MAT 2828
(n,n') p:27-Co-58g
28-Ni-59
Radionuclide Production Cross Section
+ 1.00 To 9999. %
Max
Ratio
350
300
250
200
150
100
50
0
TENDL Threshold 8.7457 MeV
JEFF4.0 Threshold 8.7457 MeV
4
2
0
JEFF4.0/TENDL
9
10^7
2
3
4
5
6
7
8
9
10^8
2
RatioCross Section (milli-barns)
77
Incident Energy (eV)
28-Ni-59


MAT 2828
(n,n') p:27-Co-58m1
28-Ni-59
Radionuclide Production Cross-Section To 7.514 %
Min
Ratio
TENDL Threshold 9.0000 MeV
JEFF4.0 Threshold 8.7711 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
28-Ni-59


MAT 2828
(n,d):27-Co-58g
28-Ni-59
Radionuclide Production Cross Section To 79.62 %
Min Ratio
Max Ratio
TENDL Threshold 6.4830 MeV
JEFF4.0 Threshold 6.4830 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
79
Incident Energy (eV)
28-Ni-59


MAT 2828
(n,d):27-Co-58m1
28-Ni-59
Radionuclide Production Cross Section To 9.882 %
Max
Ratio
TENDL Threshold 6.5084 MeV
JEFF4.0 Threshold 6.5084 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
7 8
10^7
2
3
4
5
6
7
8
10^8
2
80
Incident Energy (eV)
28-Ni-59