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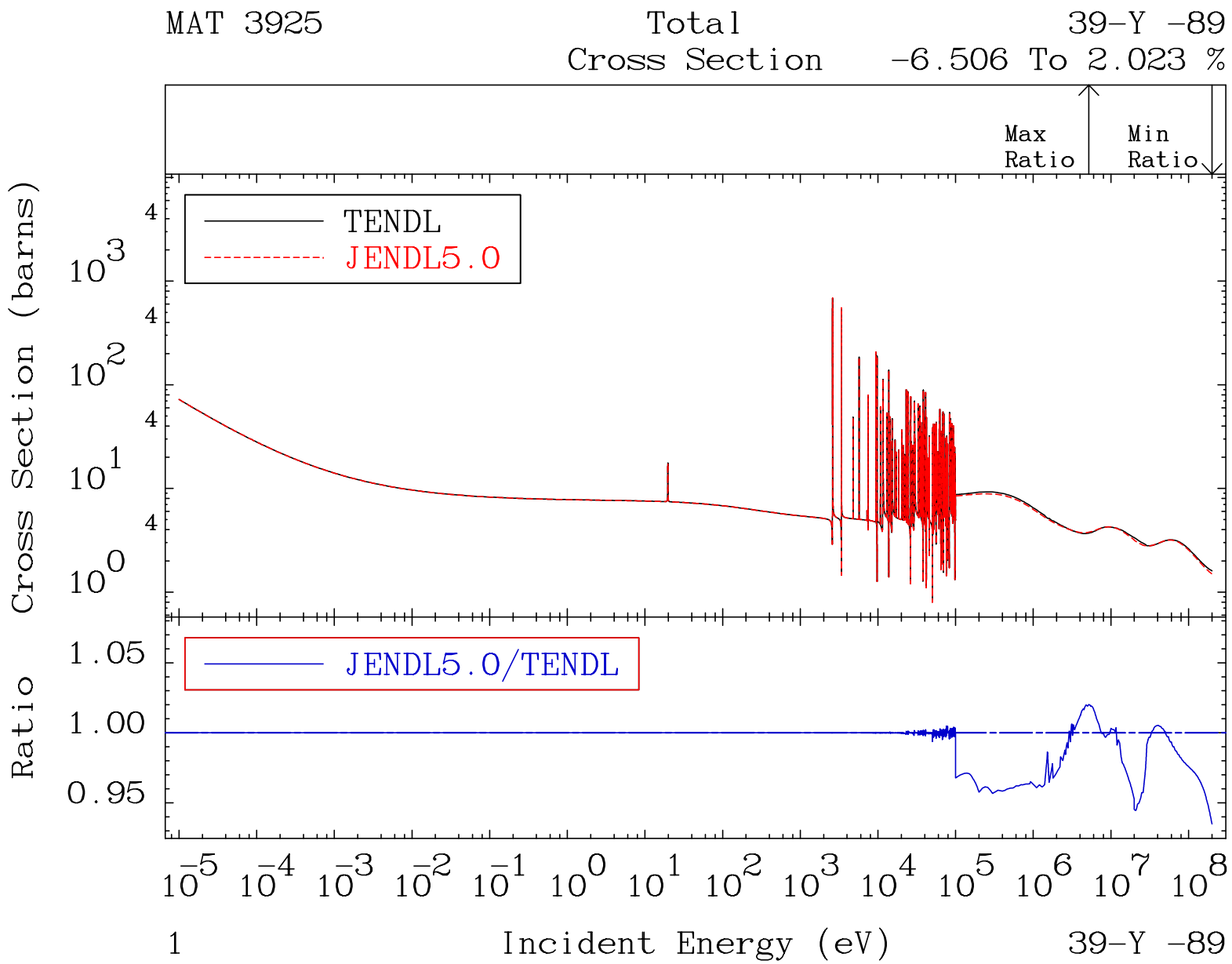
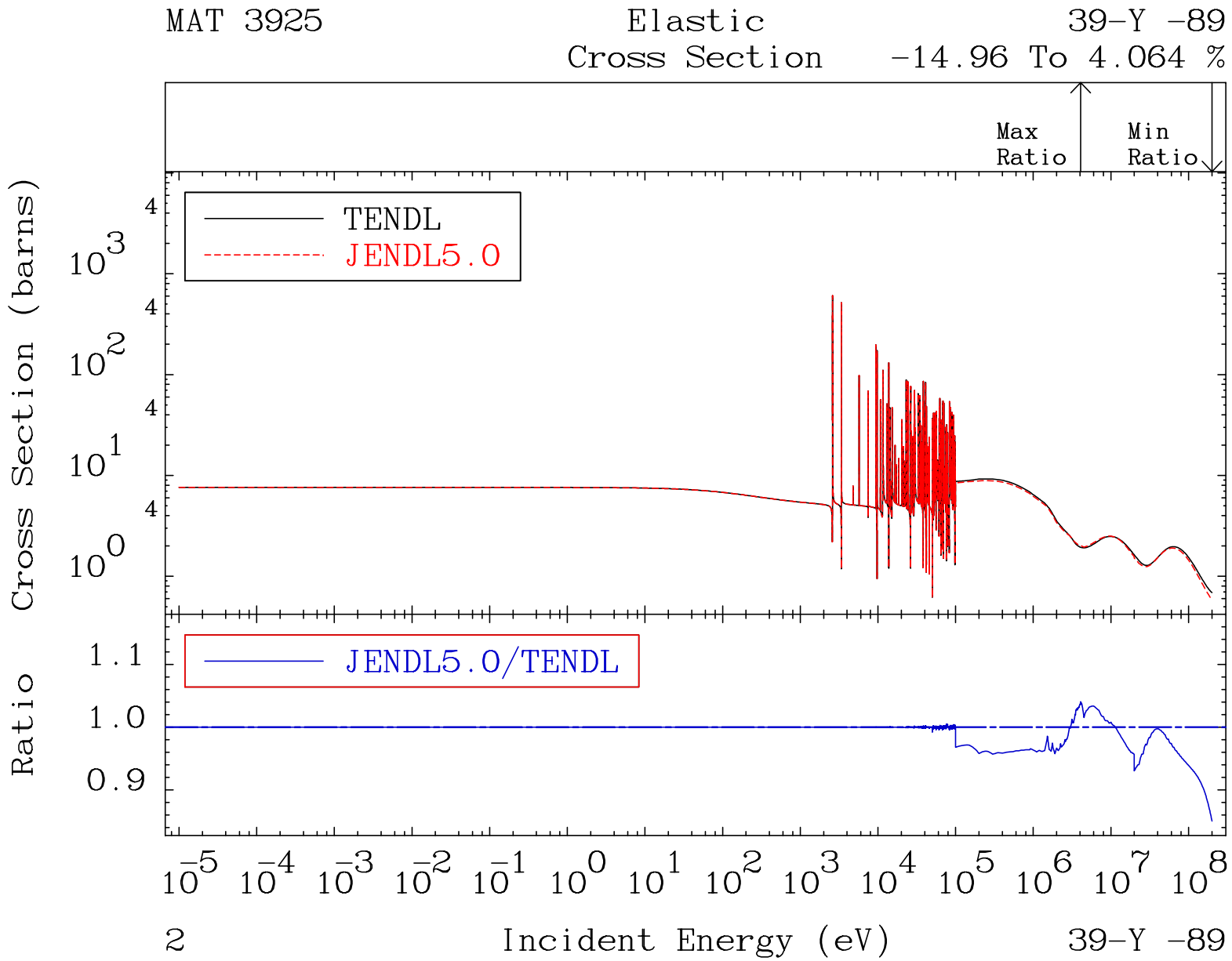
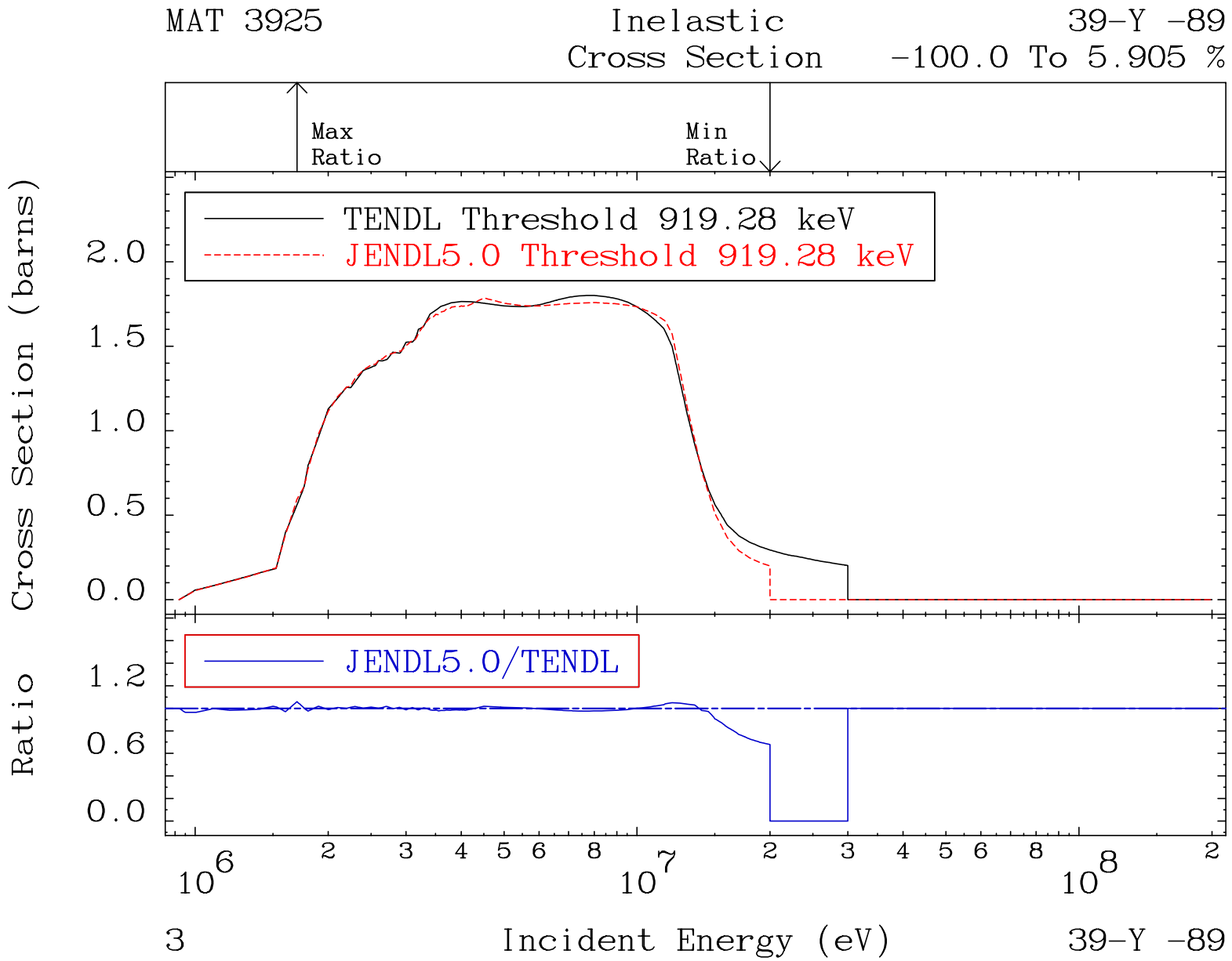
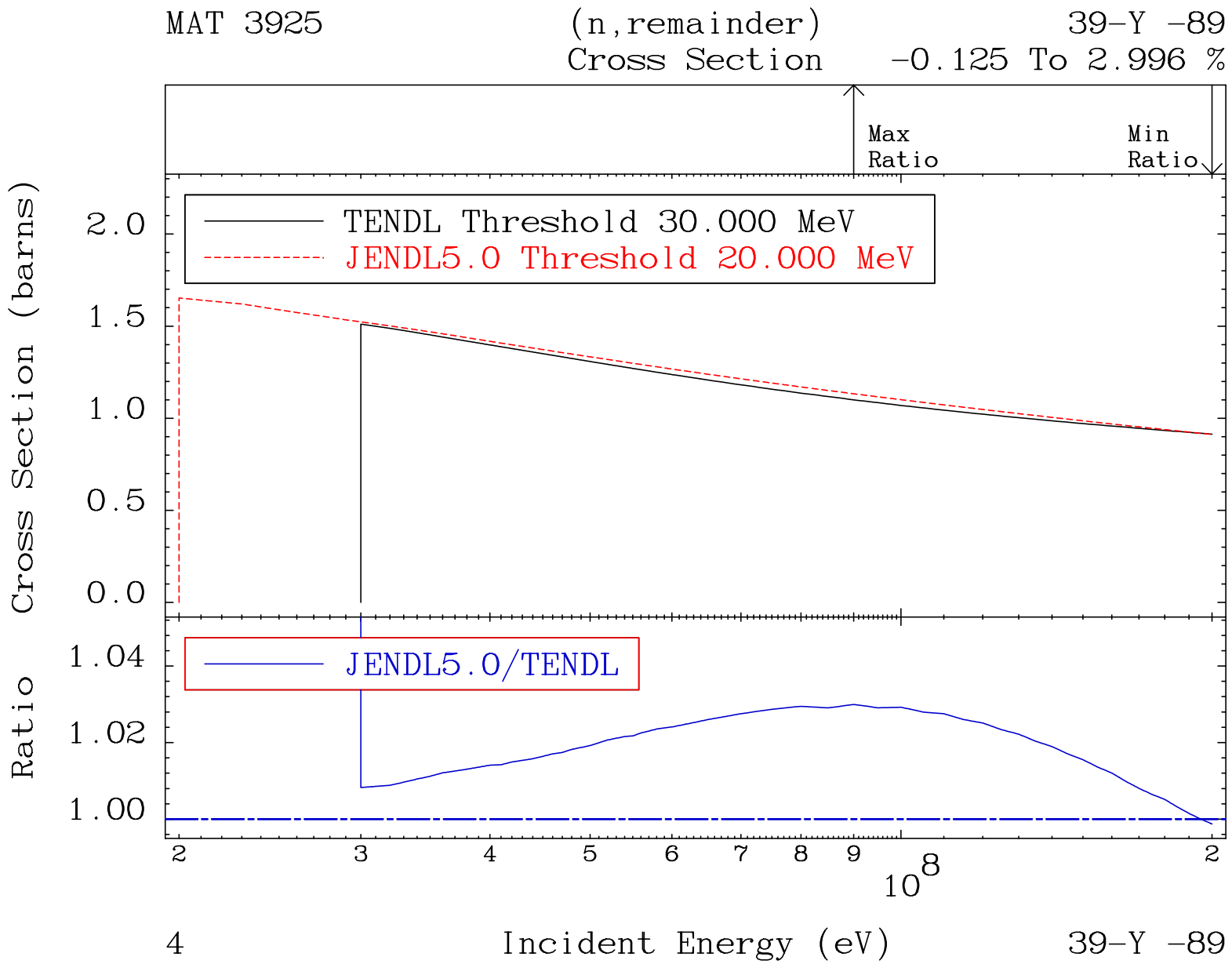
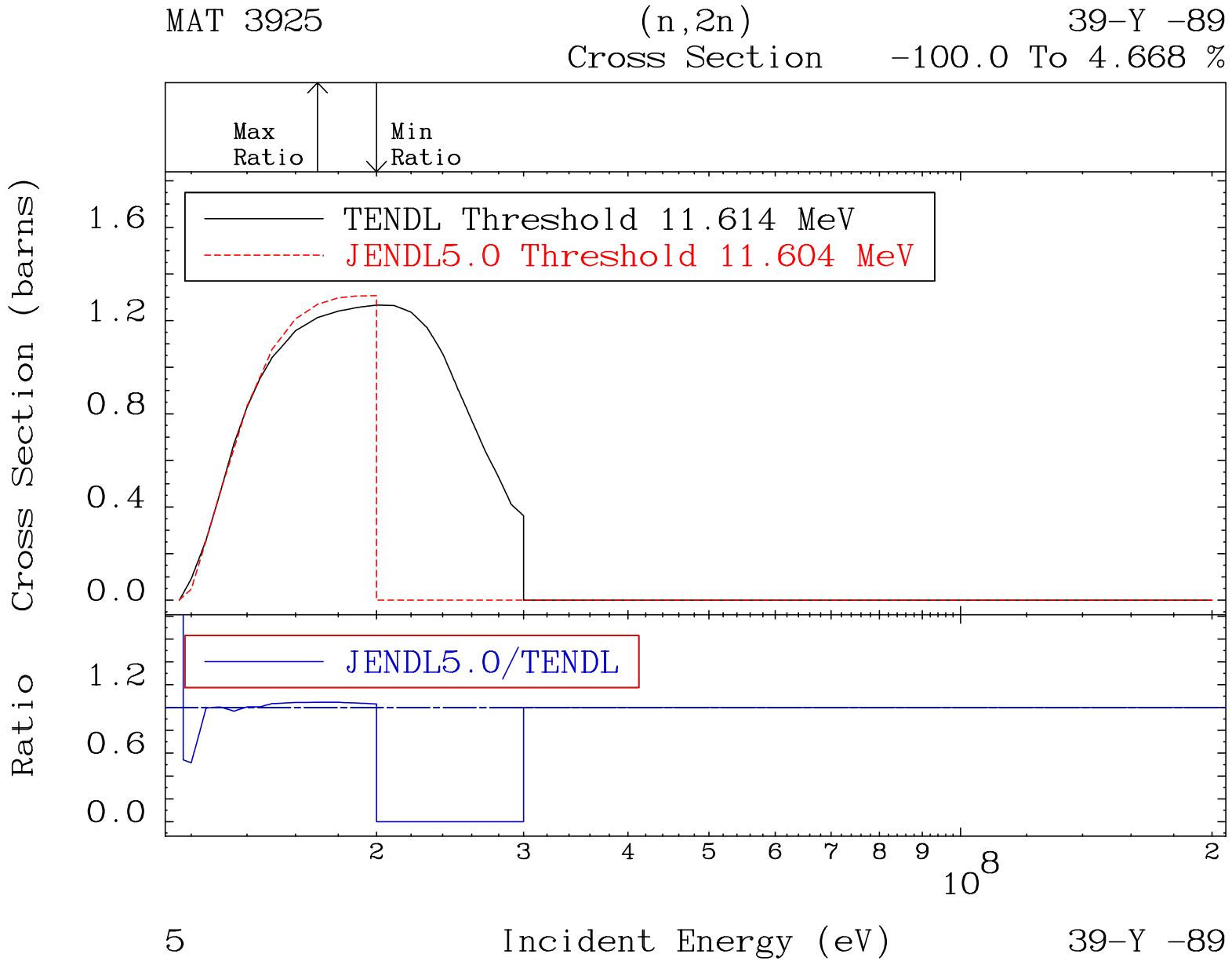
Press Mouse Button to Start

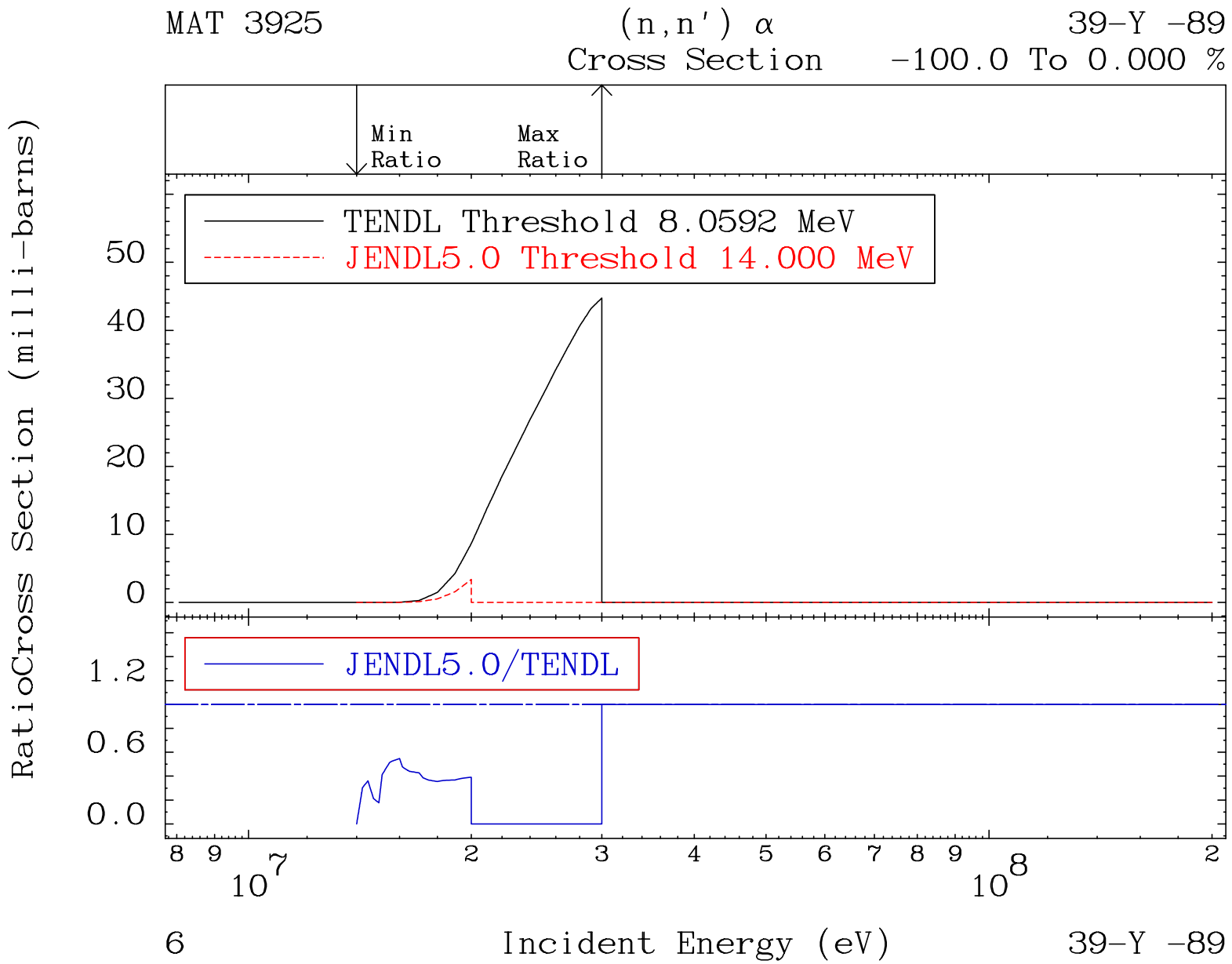

MAT 3925
Total
Cross Section
39-Y -89
-6.506 To 2.023 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
39-Y -89

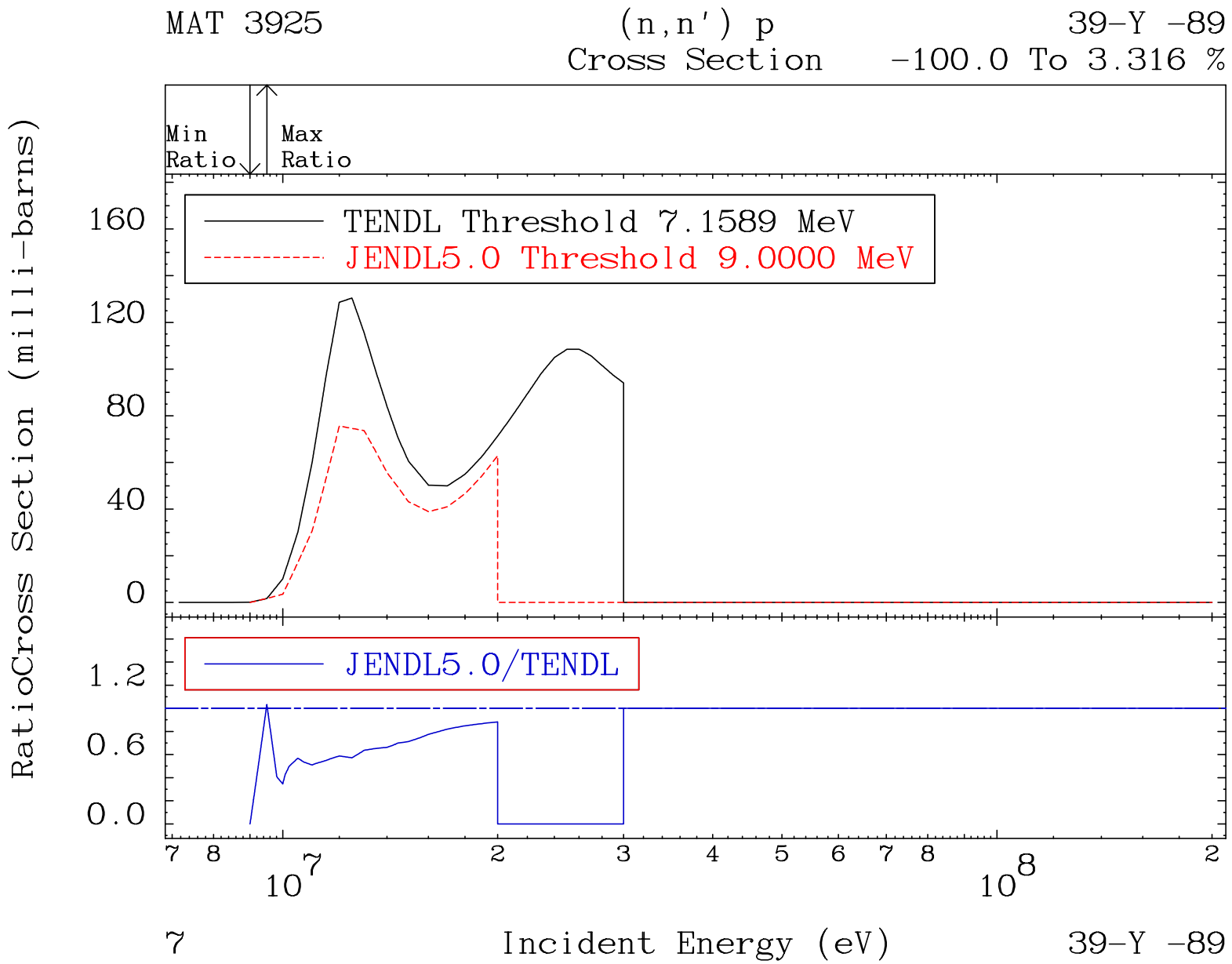

MAT 3925
Elastic
Cross Section
39-Y -89
-14.96 To 4.064 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
2
39-Y -89

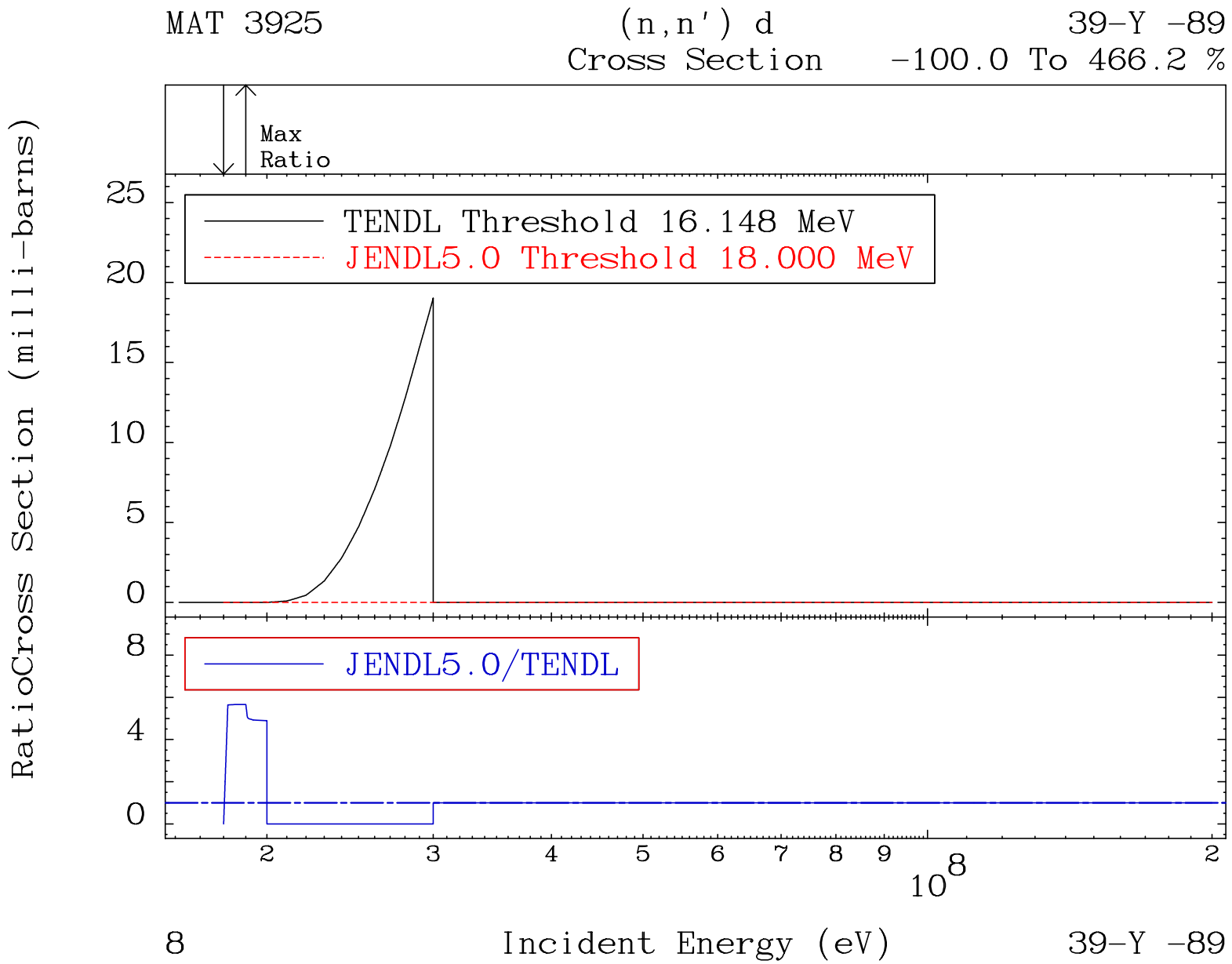

MAT 3925
Inelastic
Cross Section
39-Y -89
-100.0 To 5.905 %
Max
Ratio
Min
Ratio
TENDL Threshold 919.28 keV
JENDL5.0 Threshold 919.28 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
3
Incident Energy (eV)
39-Y -89

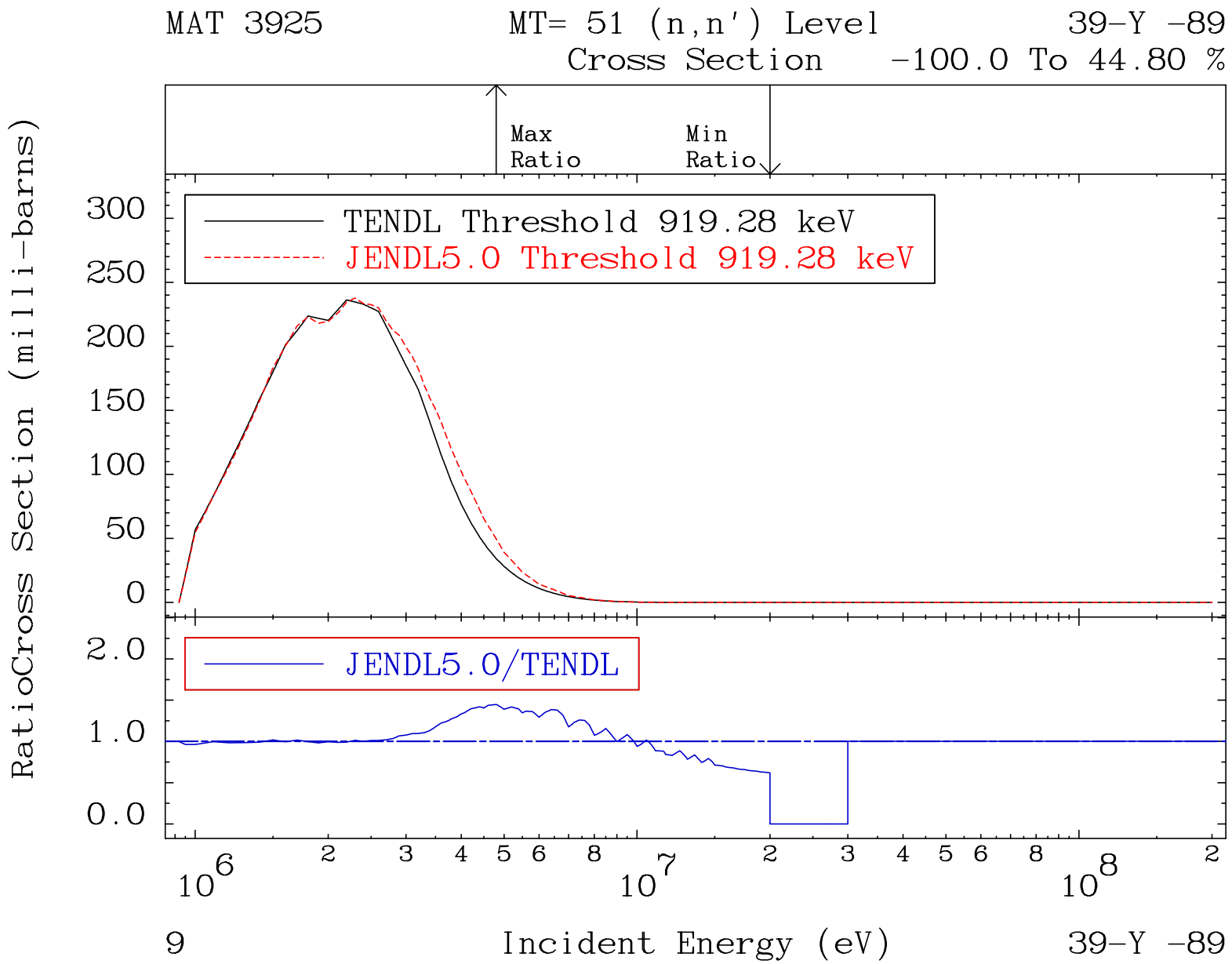

MAT 3925
(n,remainder)
Cross Section
39-Y -89
-0.125 To 2.996 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.04
1.02
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
39-Y -89

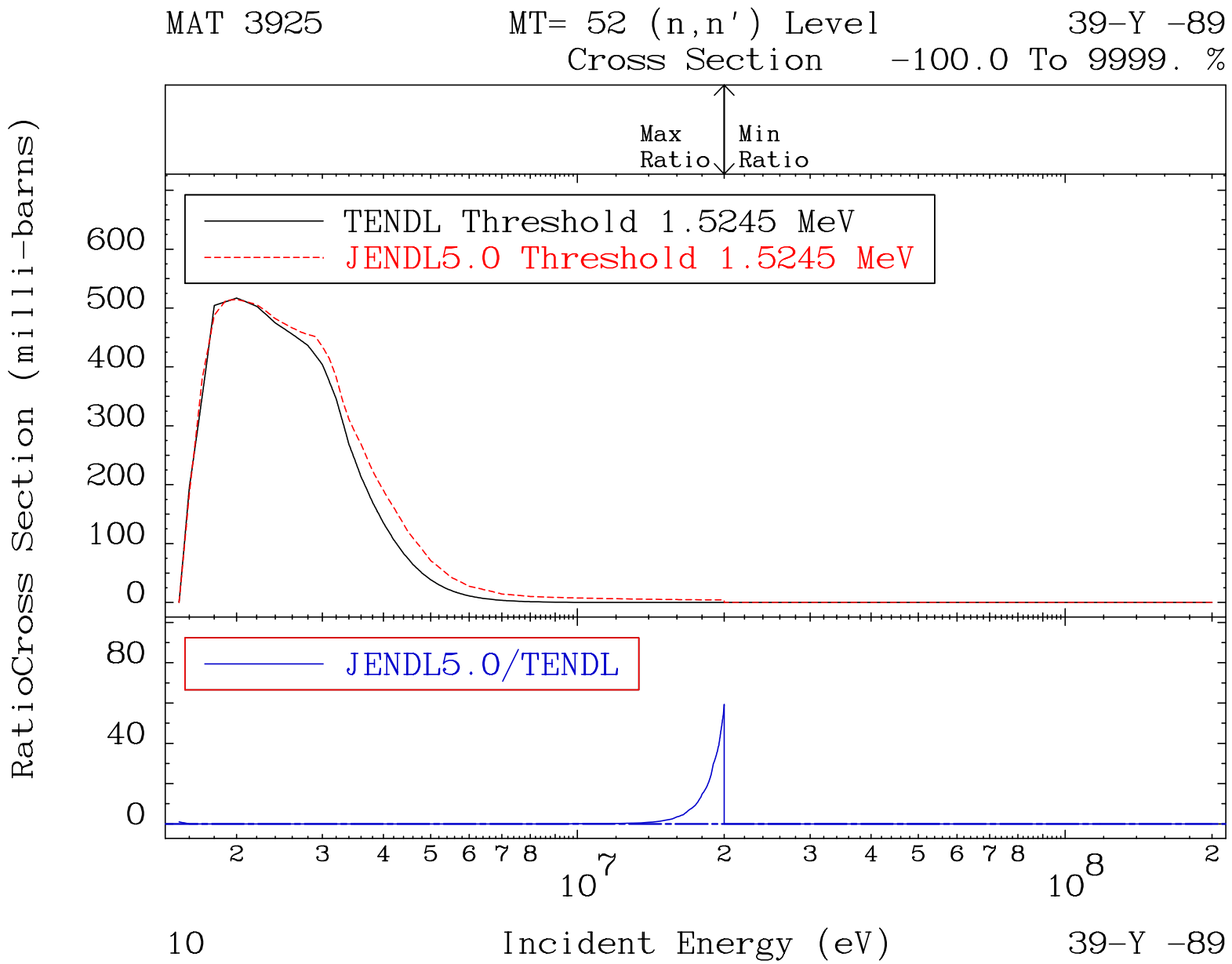

MAT 3925
(n,2n)
39-Y -89
Cross Section
-100.0 To 4.668 %
Max Ratio
Min Ratio
TENDL Threshold 11.614 MeV
JENDL5.0 Threshold 11.604 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
39-Y -89

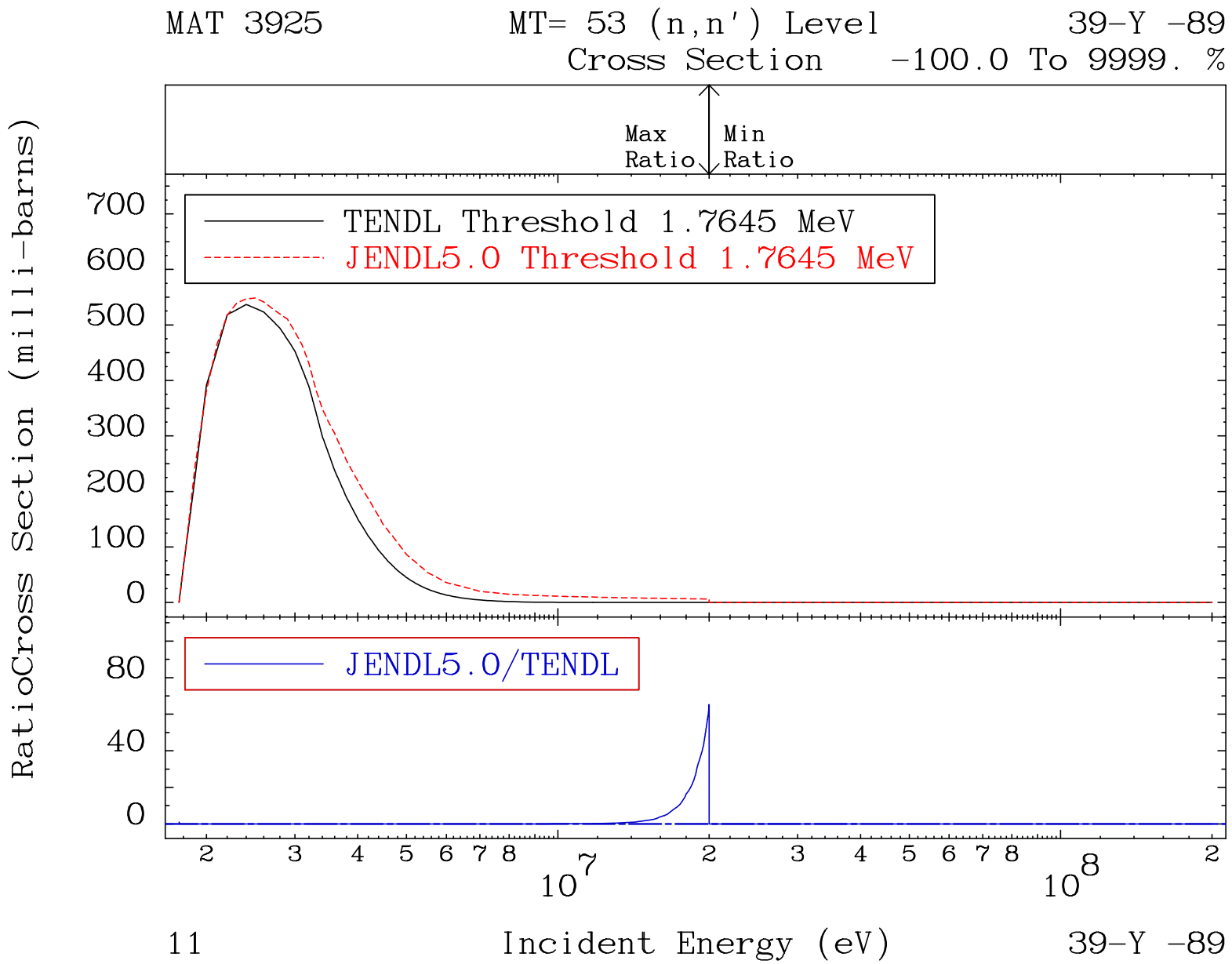

MAT 3925
(n,n') α
Cross Section
39-Y -89
-100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 8.0592 MeV
JENDL5.0 Threshold 14.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
1.2
0.6
0.0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
6
Incident Energy (eV)
39-Y -89

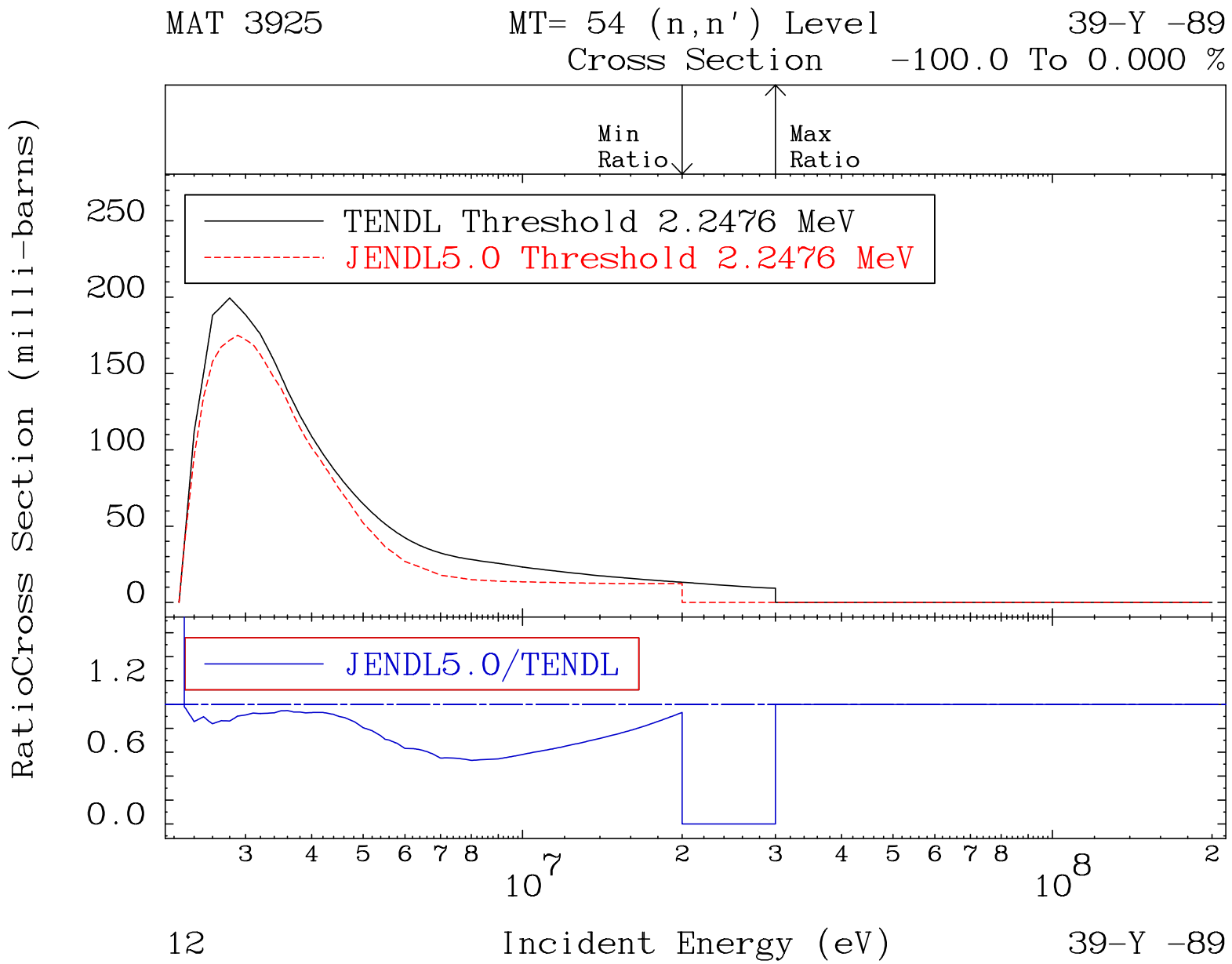

MAT 3925
(n,n') p
Cross Section
39-Y -89
-100.0 To 3.316 %
Min Ratio
Max Ratio
TENDL Threshold 7.1589 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
39-Y -89

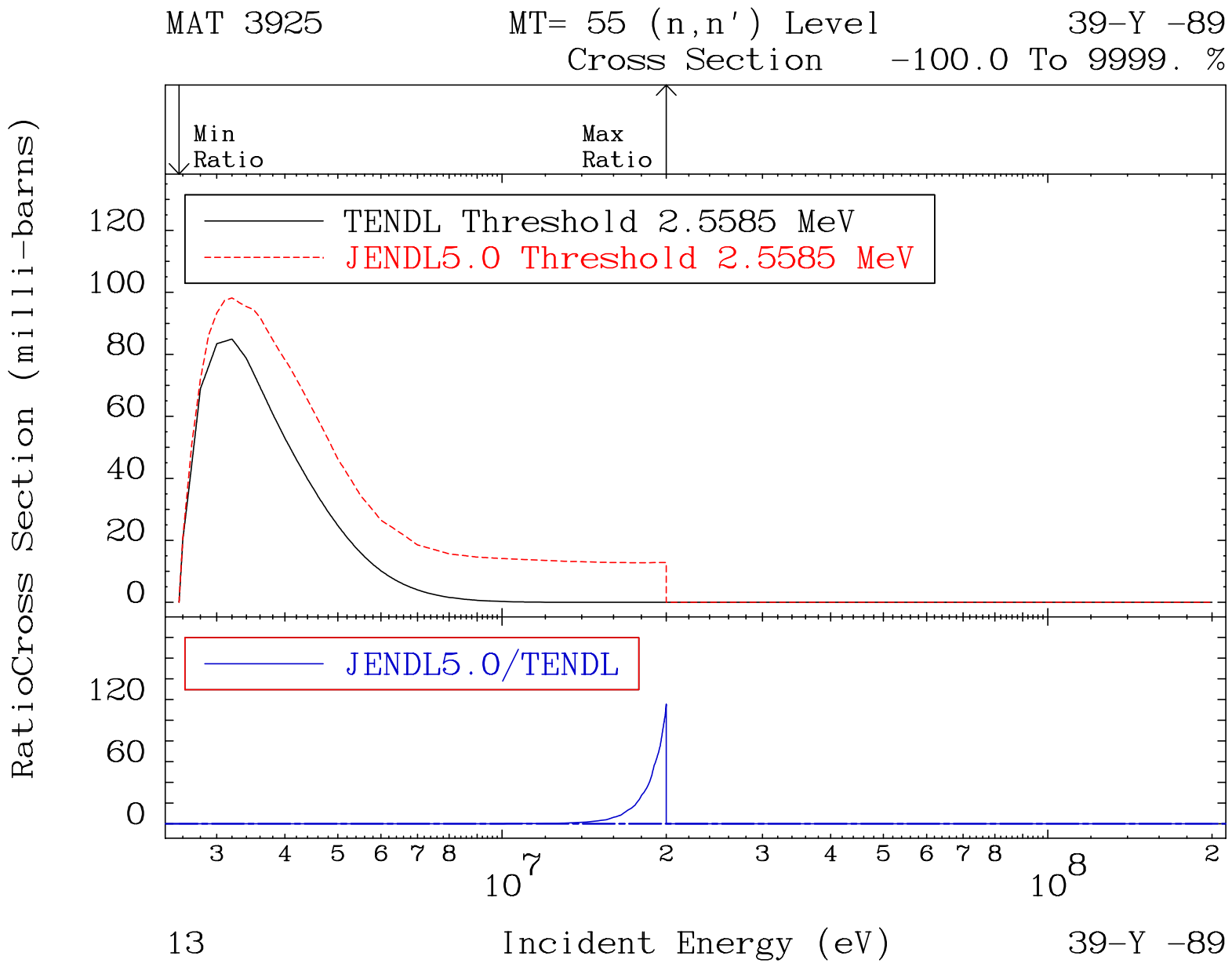

MAT 3925
(n,n') d
Cross Section
39-Y -89
-100.0 To 466.2 %
Max
Ratio
TENDL Threshold 16.148 MeV
JENDL5.0 Threshold 18.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
8
4
0
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
39-Y -89

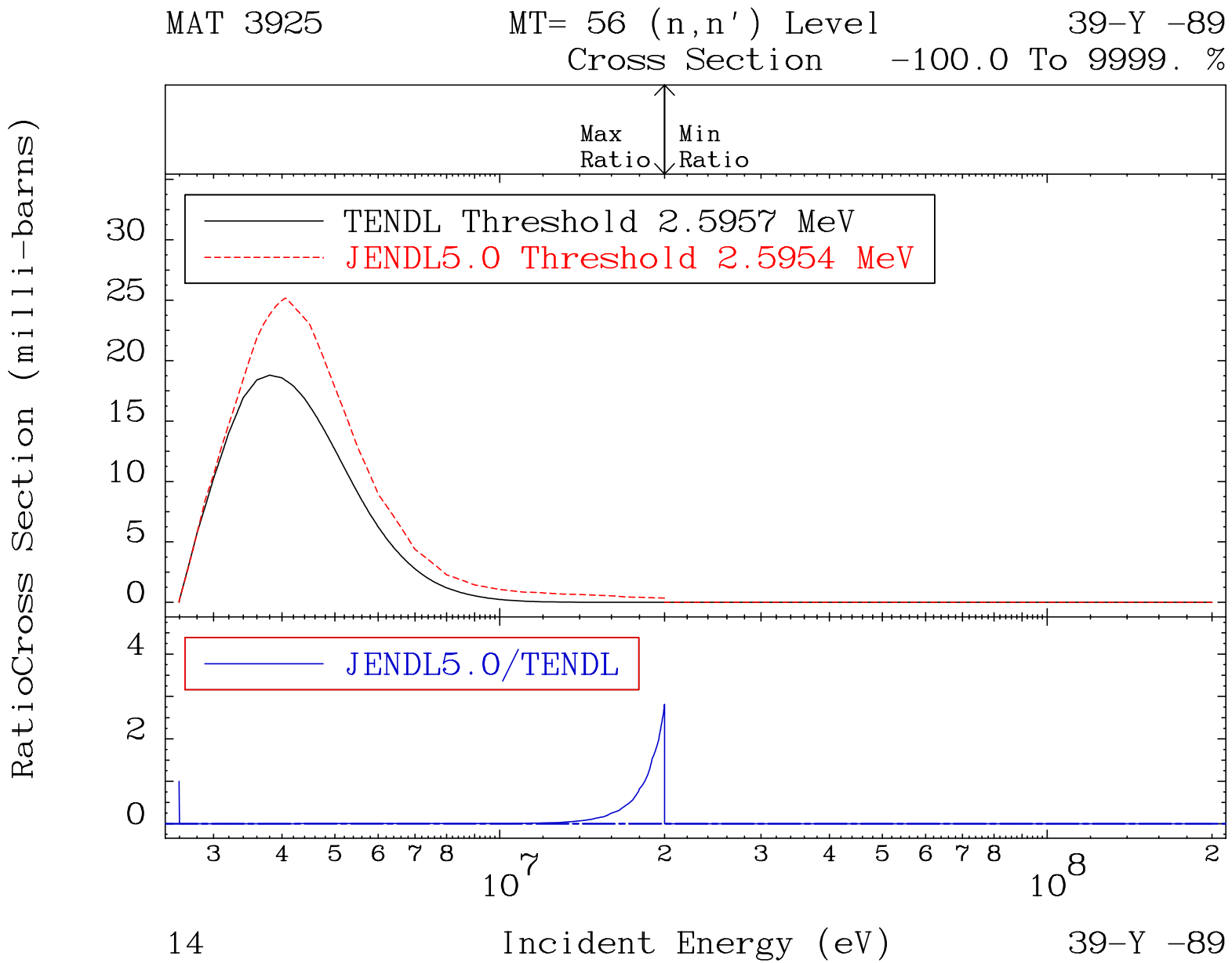

MAT 3925
MT= 51 (n,n') Level
39-Y -89
Cross Section -100.0 To 44.80 %
Max Ratio
Min Ratio
TENDL Threshold 919.28 keV
JENDL5.0 Threshold 919.28 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
10^6
10^7
10^8
Incident Energy (eV)
9
39-Y -89

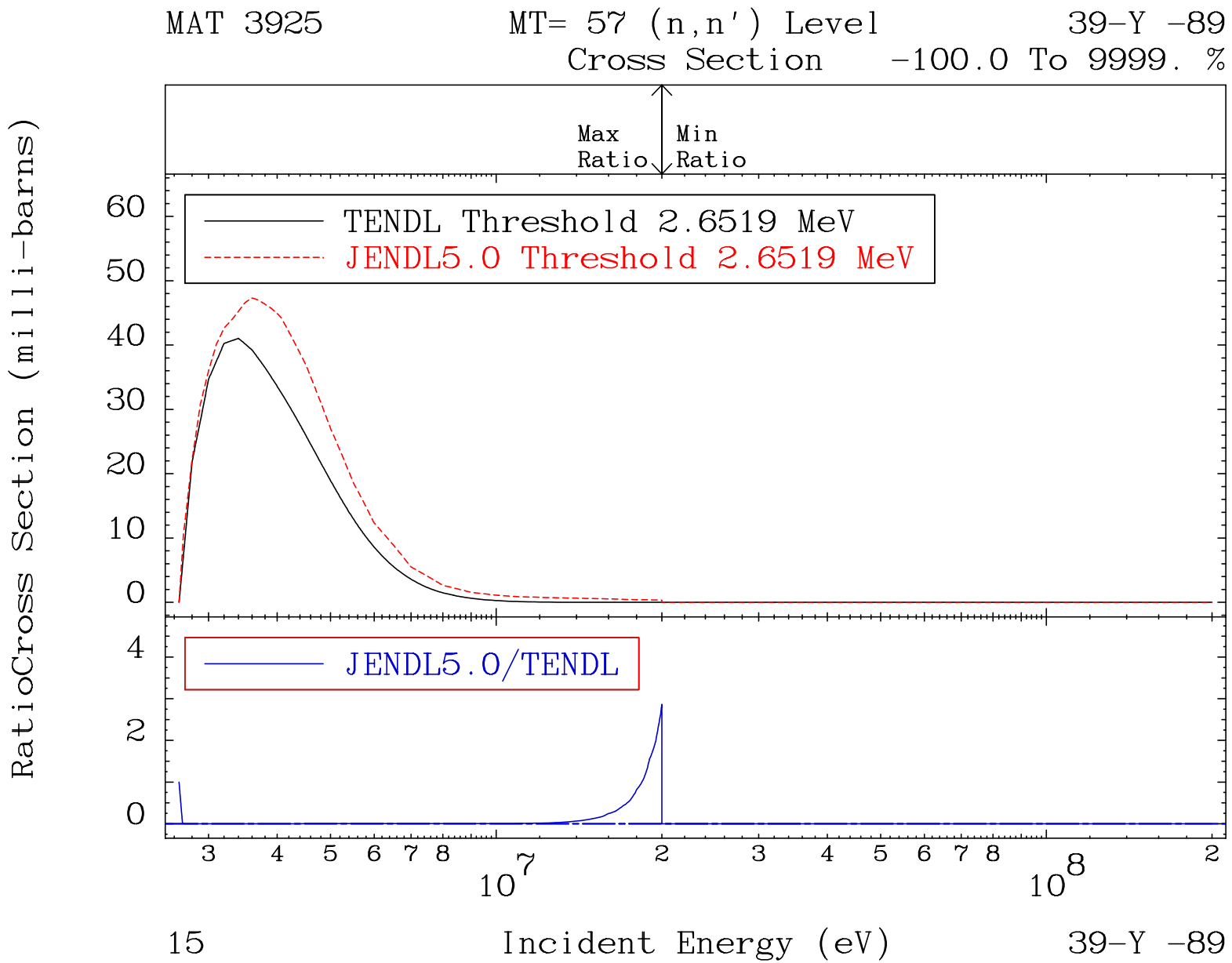

MAT 3925
MT= 52 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.5245 MeV
JENDL5.0 Threshold 1.5245 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
10
Incident Energy (eV)
39-Y -89

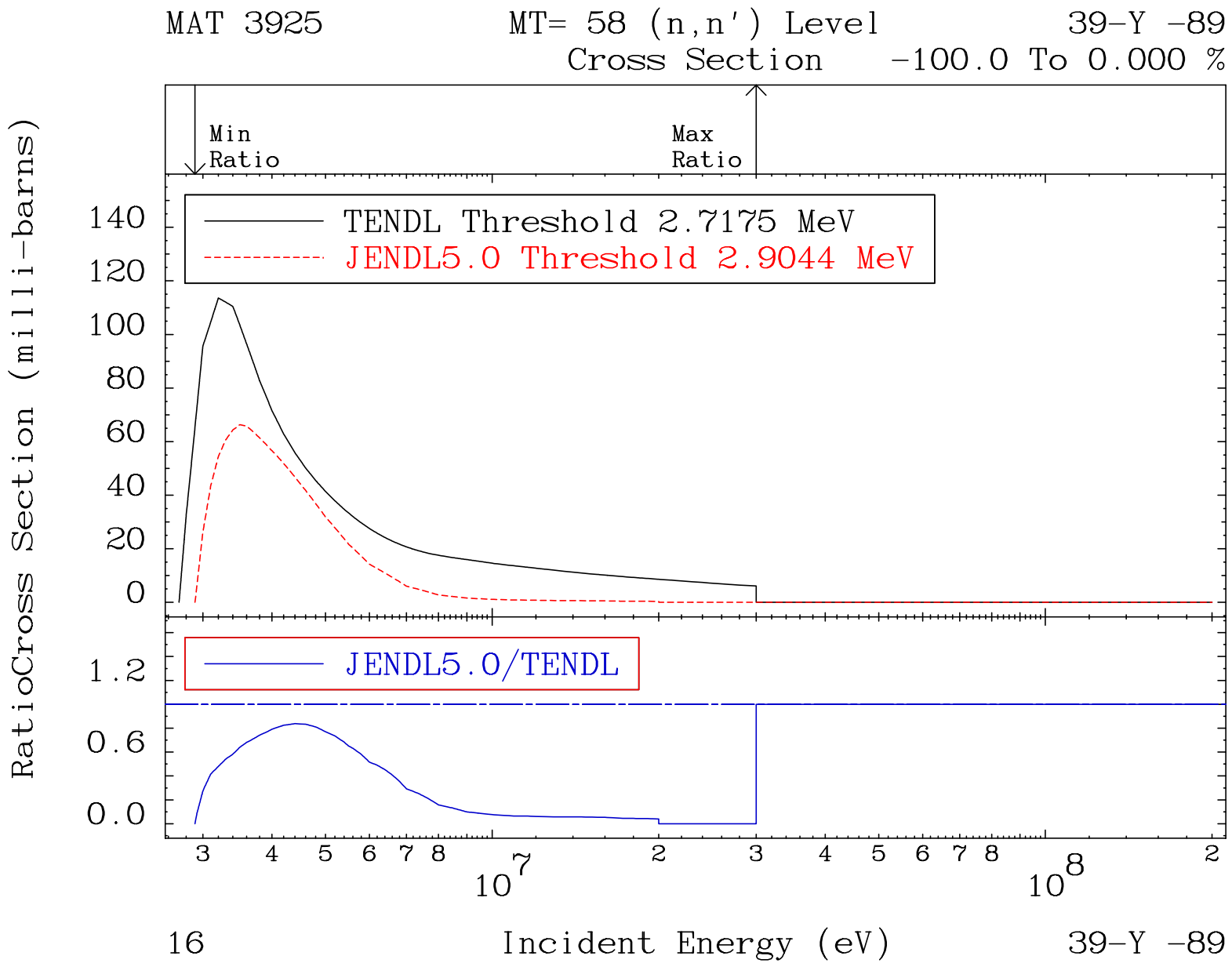

MAT 3925
MT= 53 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.7645 MeV
JENDL5.0 Threshold 1.7645 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
700
600
500
400
300
200
100
0
80
40
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
39-Y -89

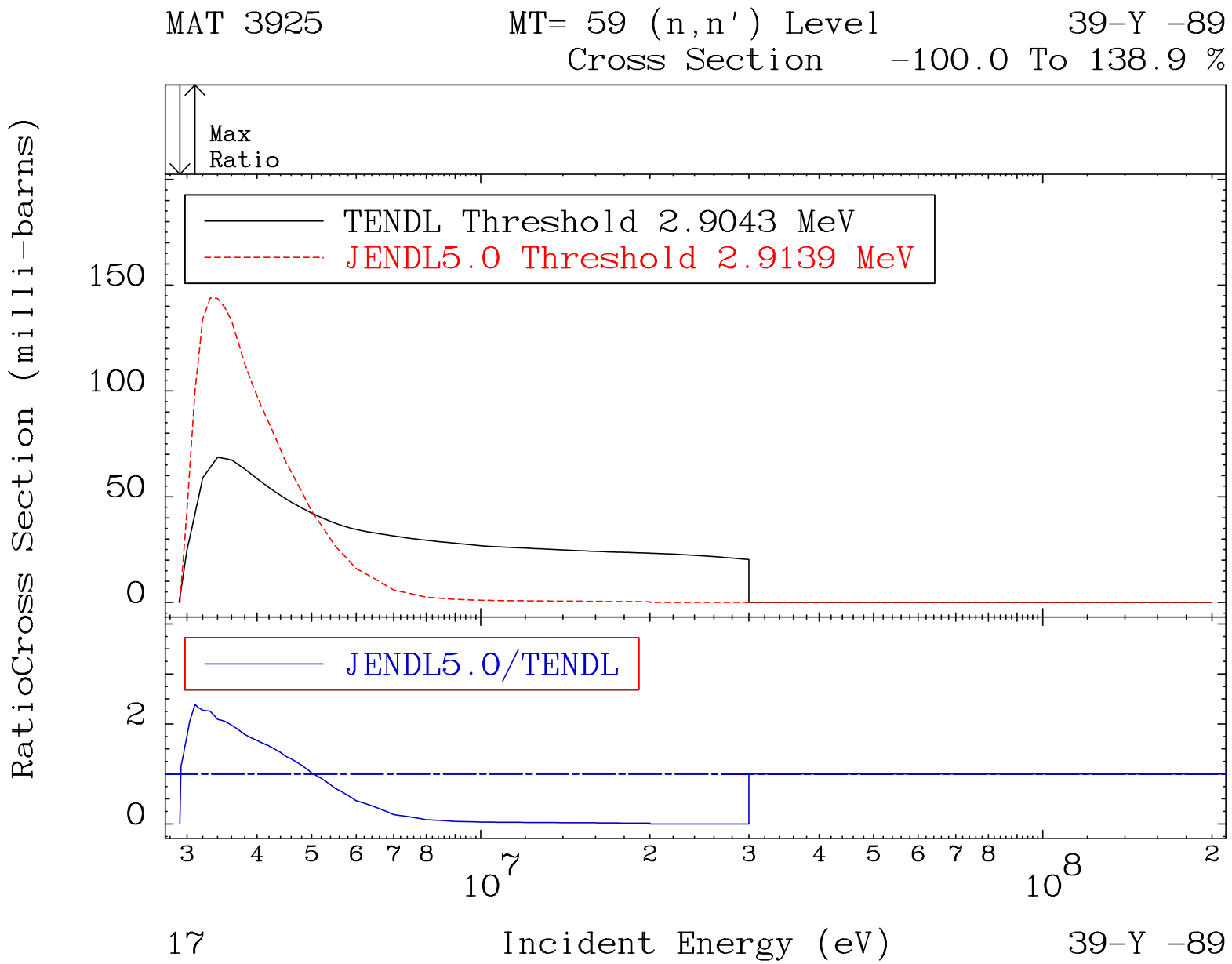

MAT 3925
MT= 54 (n,n') Level
39-Y -89
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.2476 MeV
JENDL5.0 Threshold 2.2476 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
39-Y -89

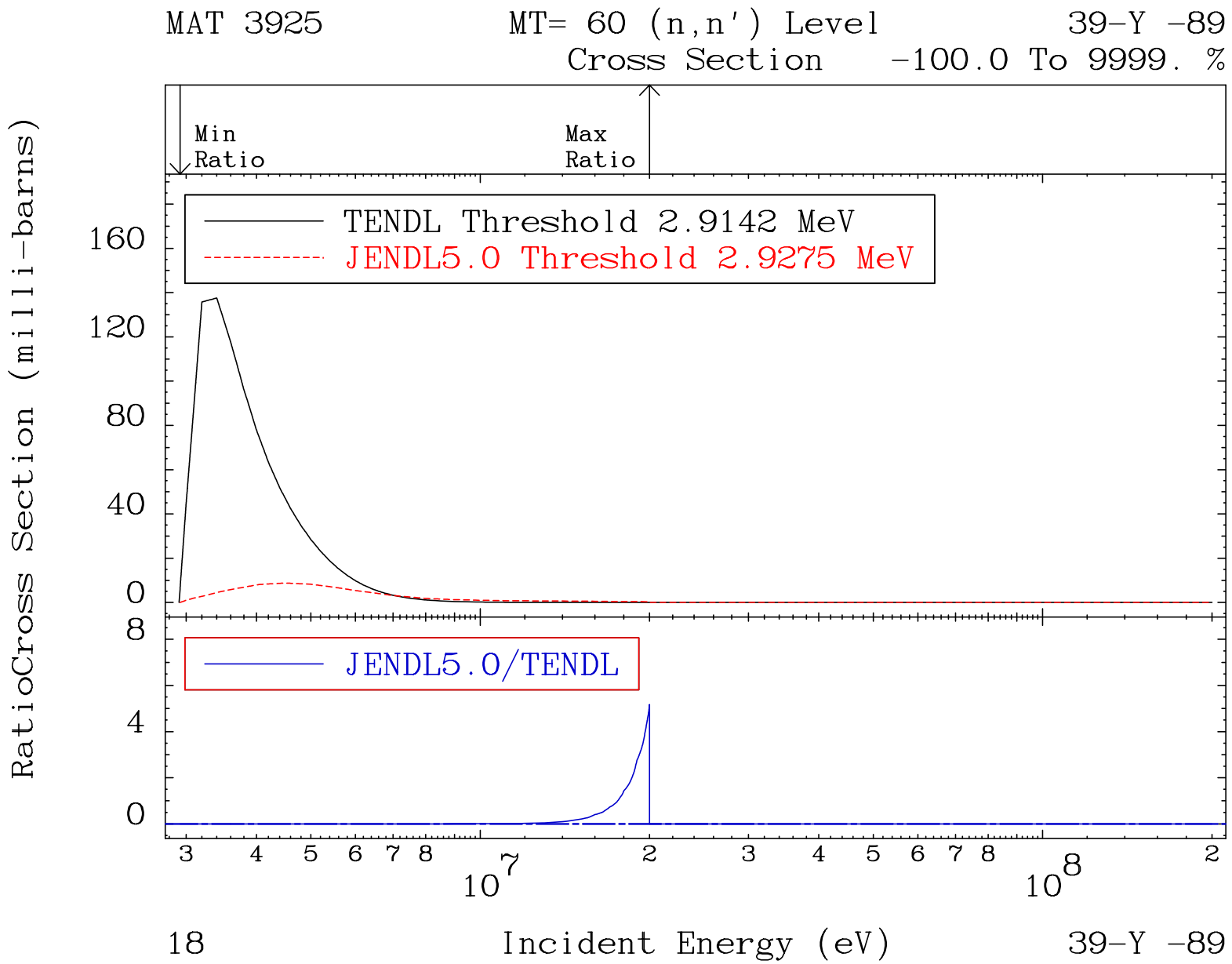

MAT 3925
MT= 55 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.5585 MeV
JENDL5.0 Threshold 2.5585 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
120
60
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
13
Incident Energy (eV)
39-Y -89

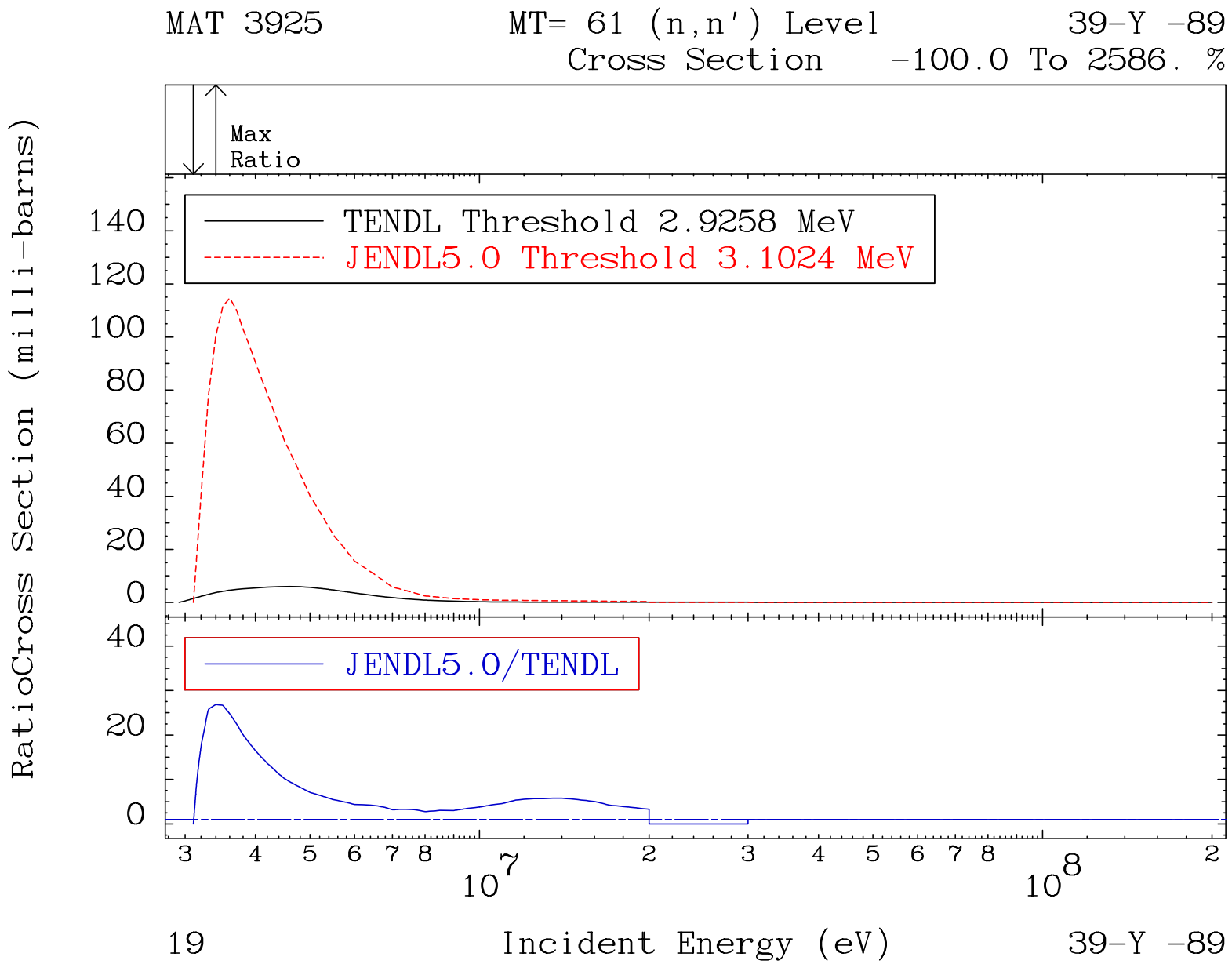

MAT 3925
MT= 56 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.5957 MeV
JENDL5.0 Threshold 2.5954 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
14
39-Y -89

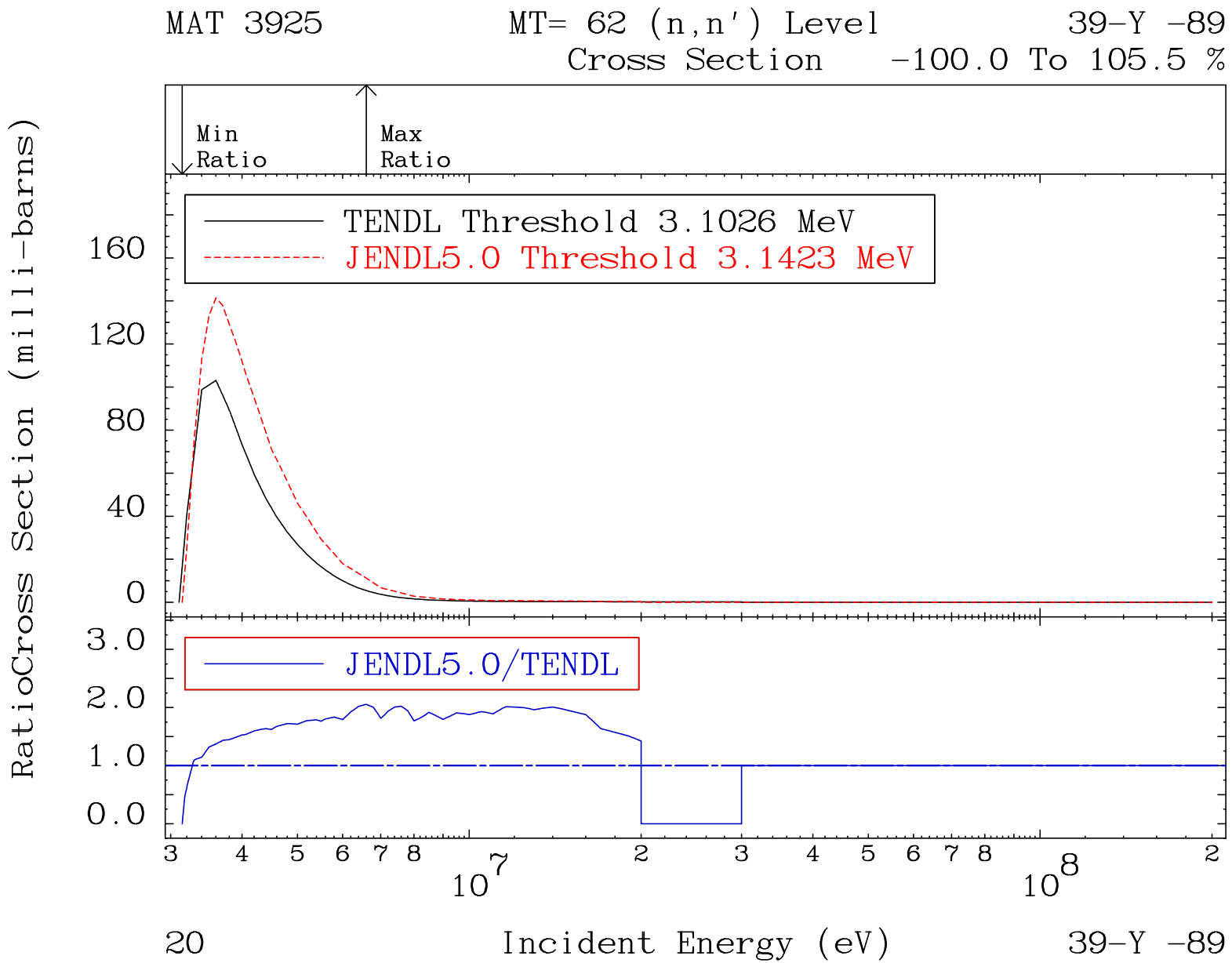

MAT 3925
MT= 57 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.6519 MeV
JENDL5.0 Threshold 2.6519 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
15
39-Y -89

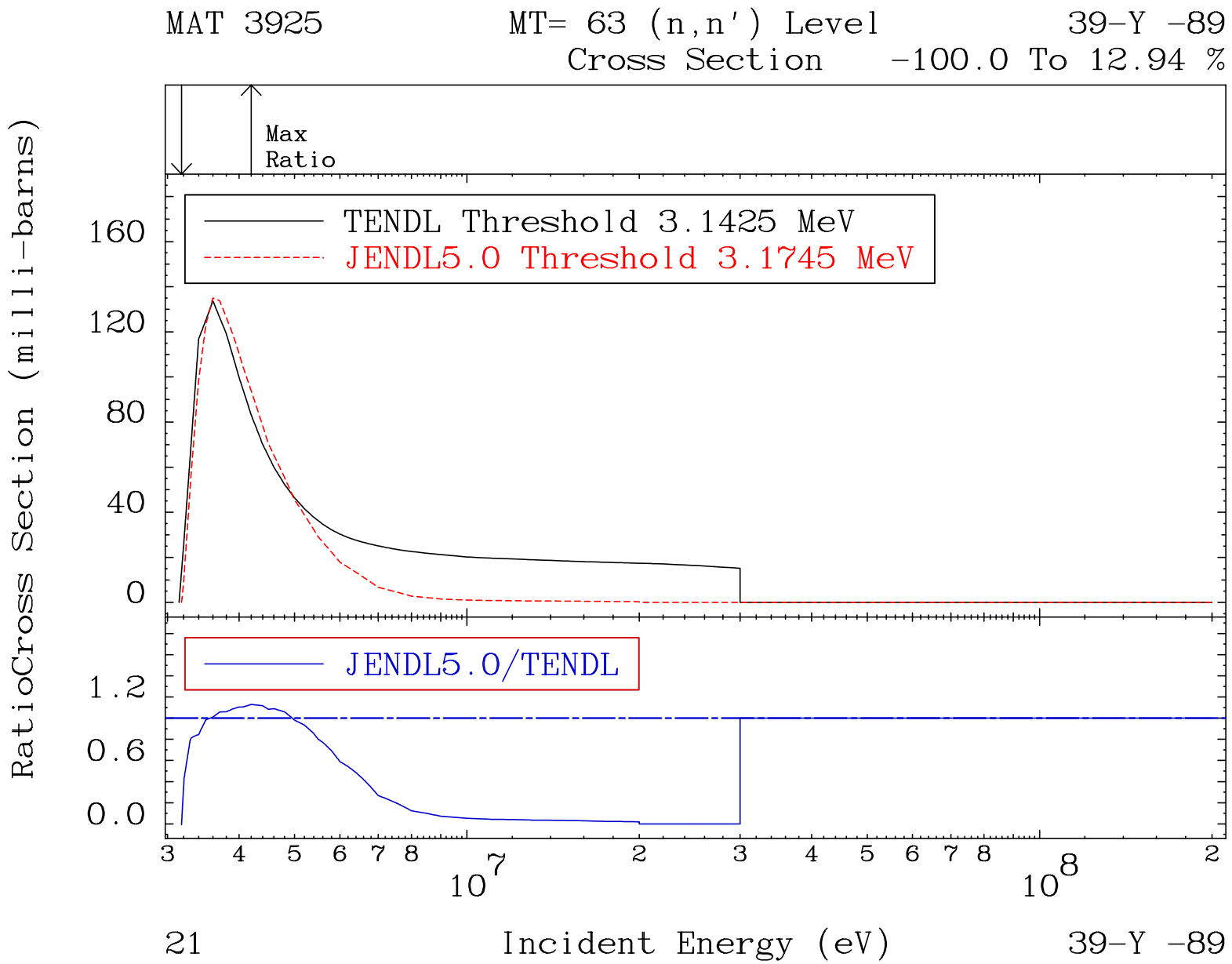

MAT 3925
MT= 58 (n,n') Level
39-Y -89
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.7175 MeV
JENDL5.0 Threshold 2.9044 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
16
Incident Energy (eV)
39-Y -89

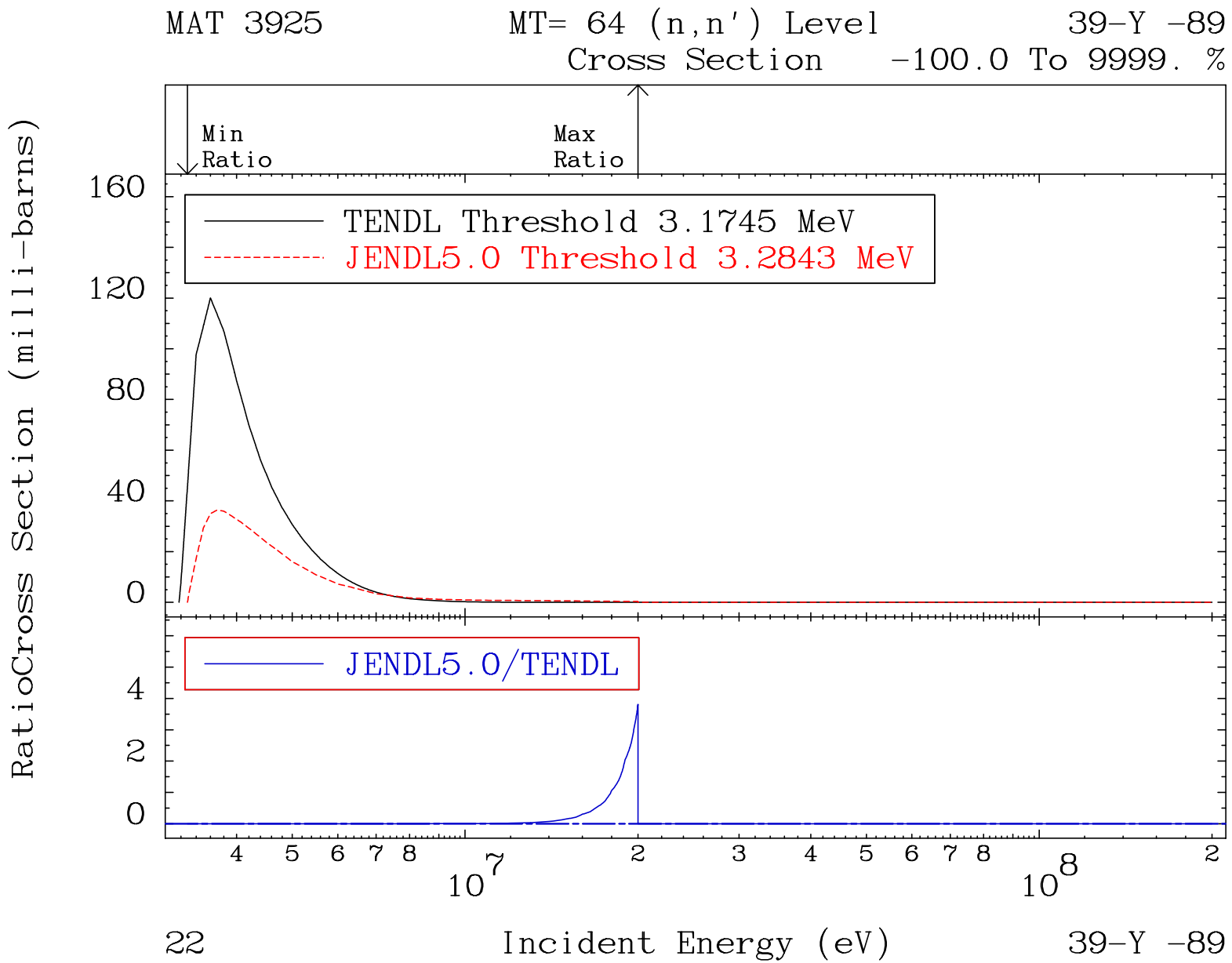

MAT 3925
MT= 59 (n,n') Level
39-Y -89
Cross Section -100.0 To 138.9 %
Max
Ratio
TENDL Threshold 2.9043 MeV
JENDL5.0 Threshold 2.9139 MeV
150
100
50
0
JENDL5.0/TENDL
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
RatioCross Section (milli-barns)
17
Incident Energy (eV)
39-Y -89

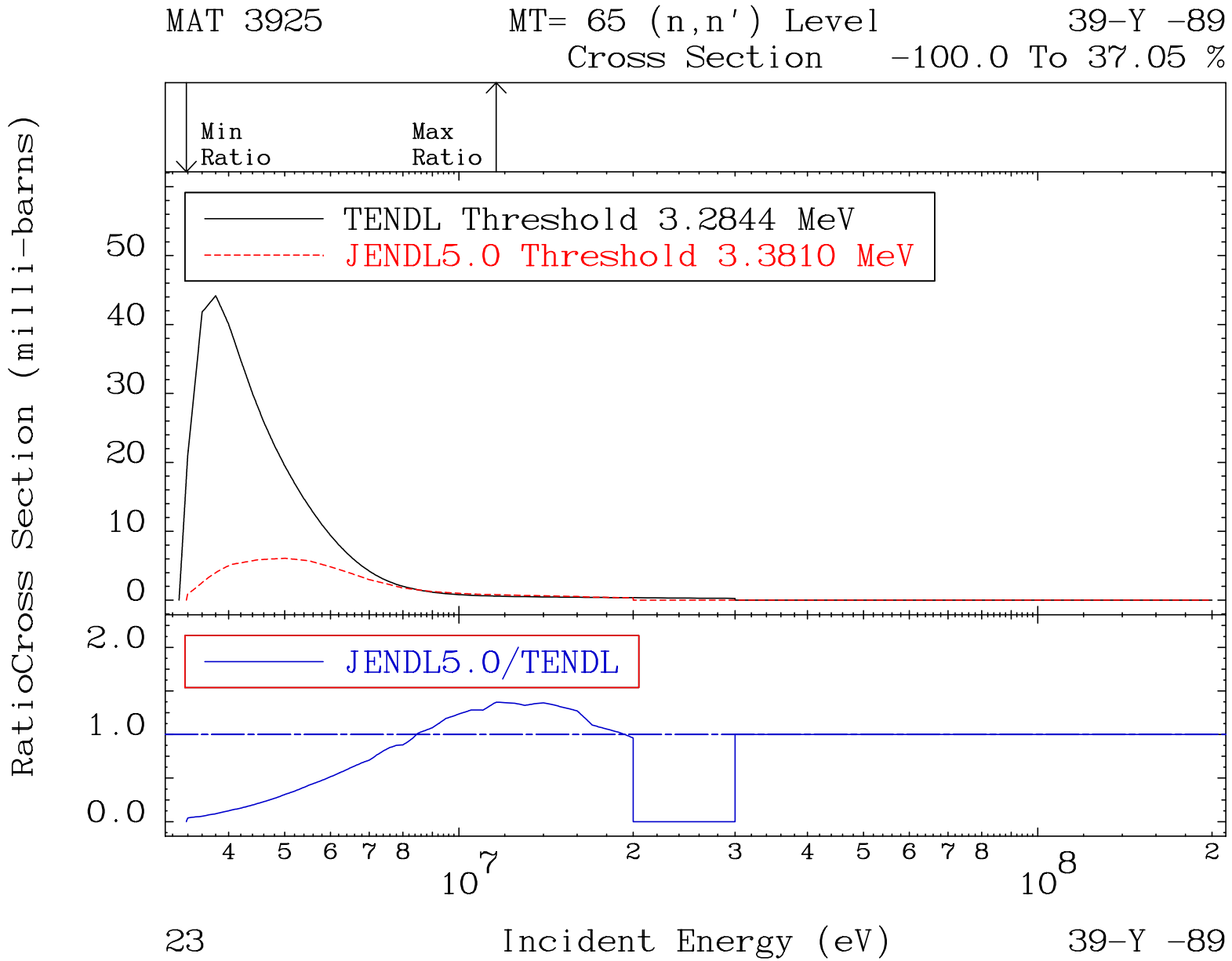

MAT 3925
MT= 60 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 2.9142 MeV
JENDL5.0 Threshold 2.9275 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
8
4
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
18
Incident Energy (eV)
39-Y -89

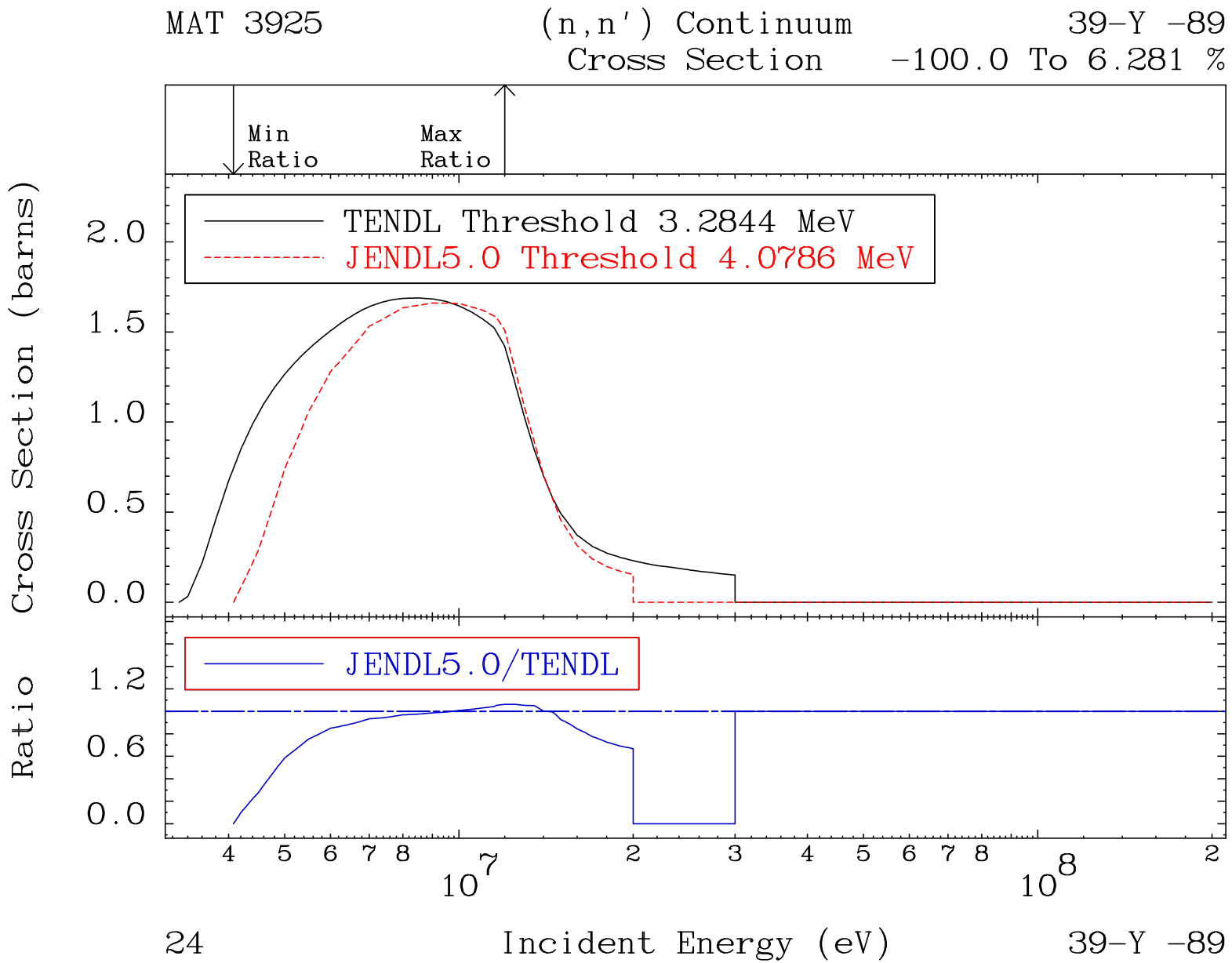

MAT 3925
MT= 61 (n,n') Level
39-Y -89
Cross Section -100.0 To 2586. %
Max
Ratio
TENDL Threshold 2.9258 MeV
JENDL5.0 Threshold 3.1024 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
40
20
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
19
Incident Energy (eV)
39-Y -89

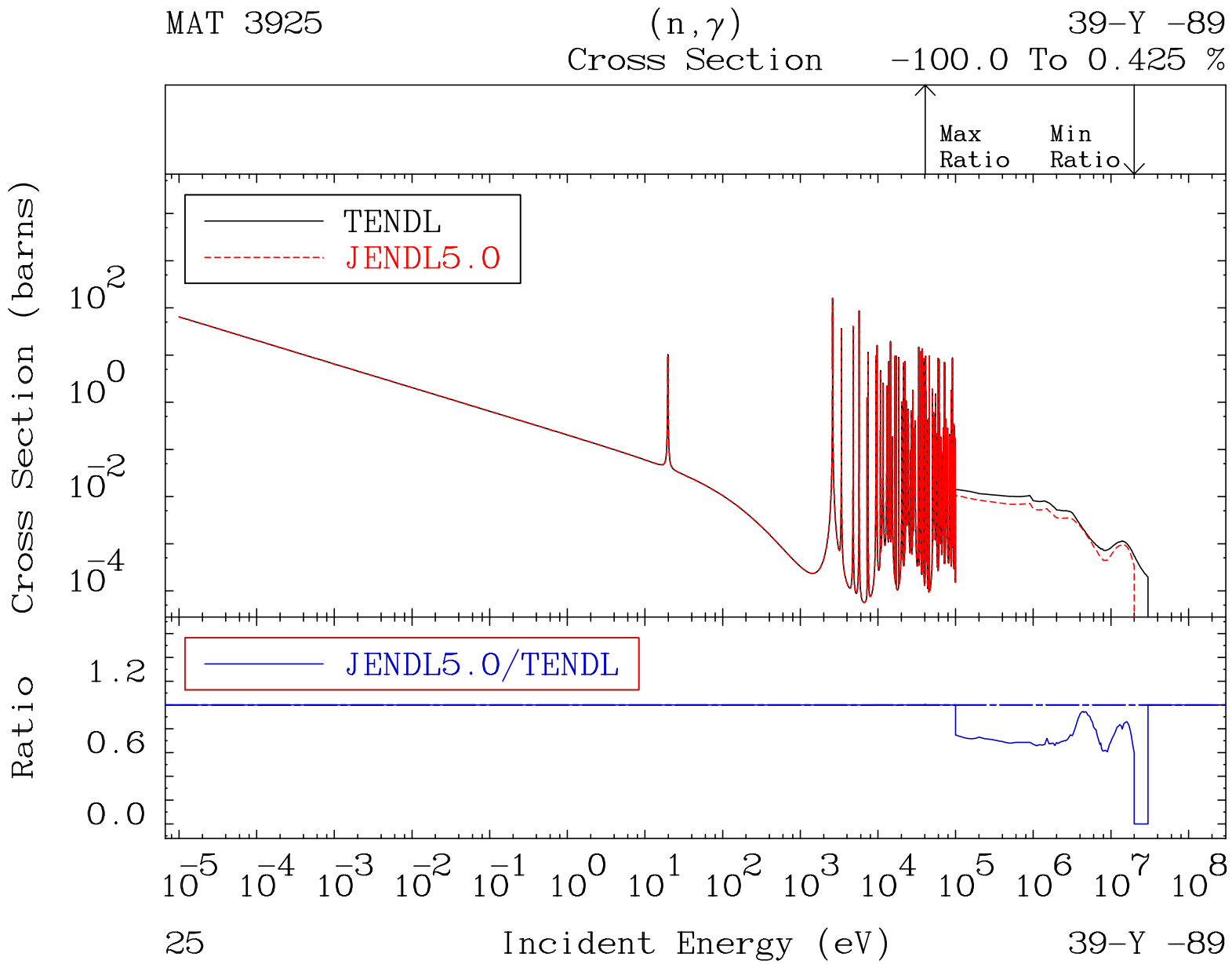

MAT 3925
MT= 62 (n,n') Level
39-Y -89
Cross Section -100.0 To 105.5 %
Min Ratio
Max Ratio
TENDL Threshold 3.1026 MeV
JENDL5.0 Threshold 3.1423 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
3.0
2.0
1.0
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
20
Incident Energy (eV)
39-Y -89

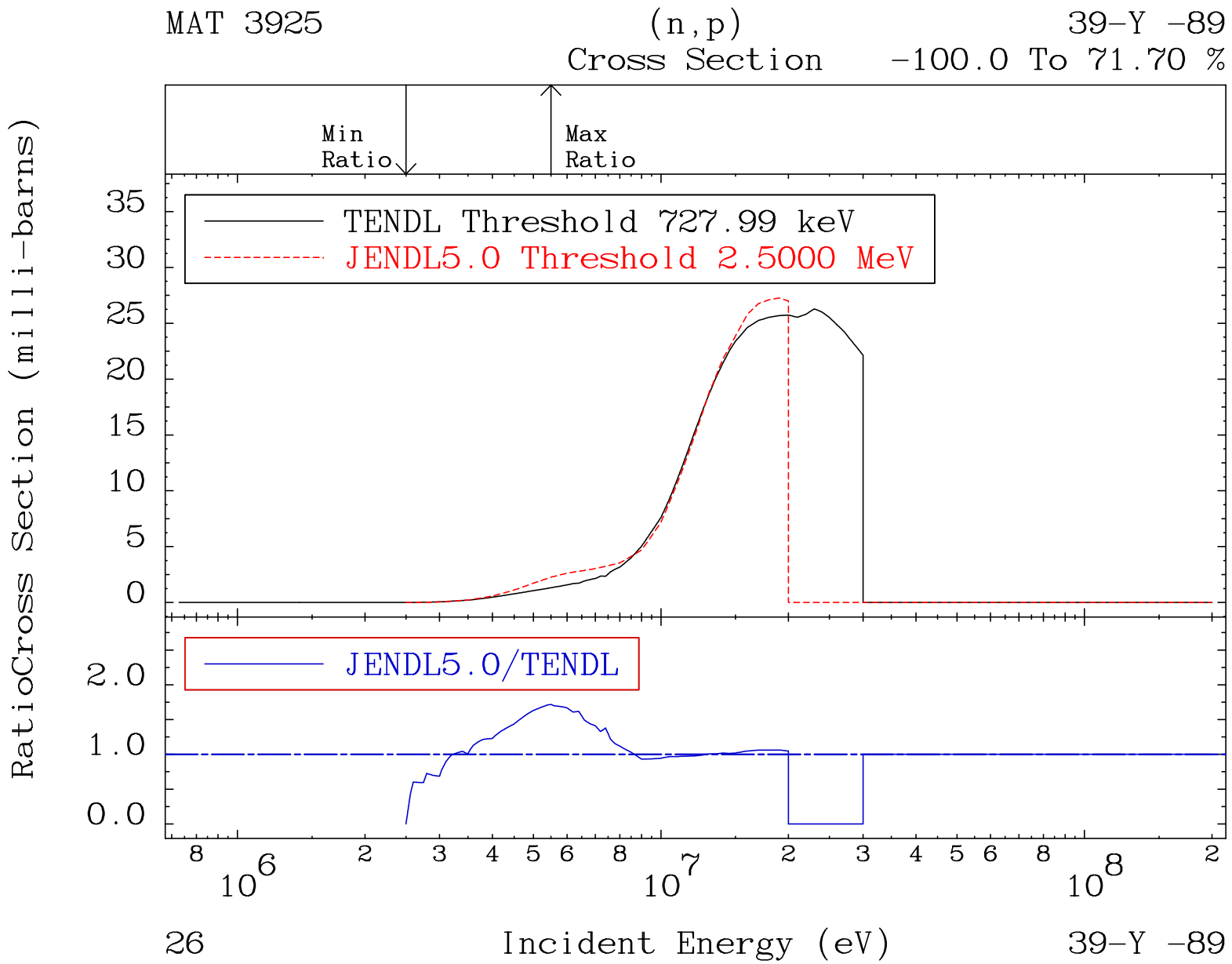

MAT 3925
MT= 63 (n,n') Level
39-Y -89
Cross Section -100.0 To 12.94 %
Max
Ratio
TENDL Threshold 3.1425 MeV
JENDL5.0 Threshold 3.1745 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
39-Y -89

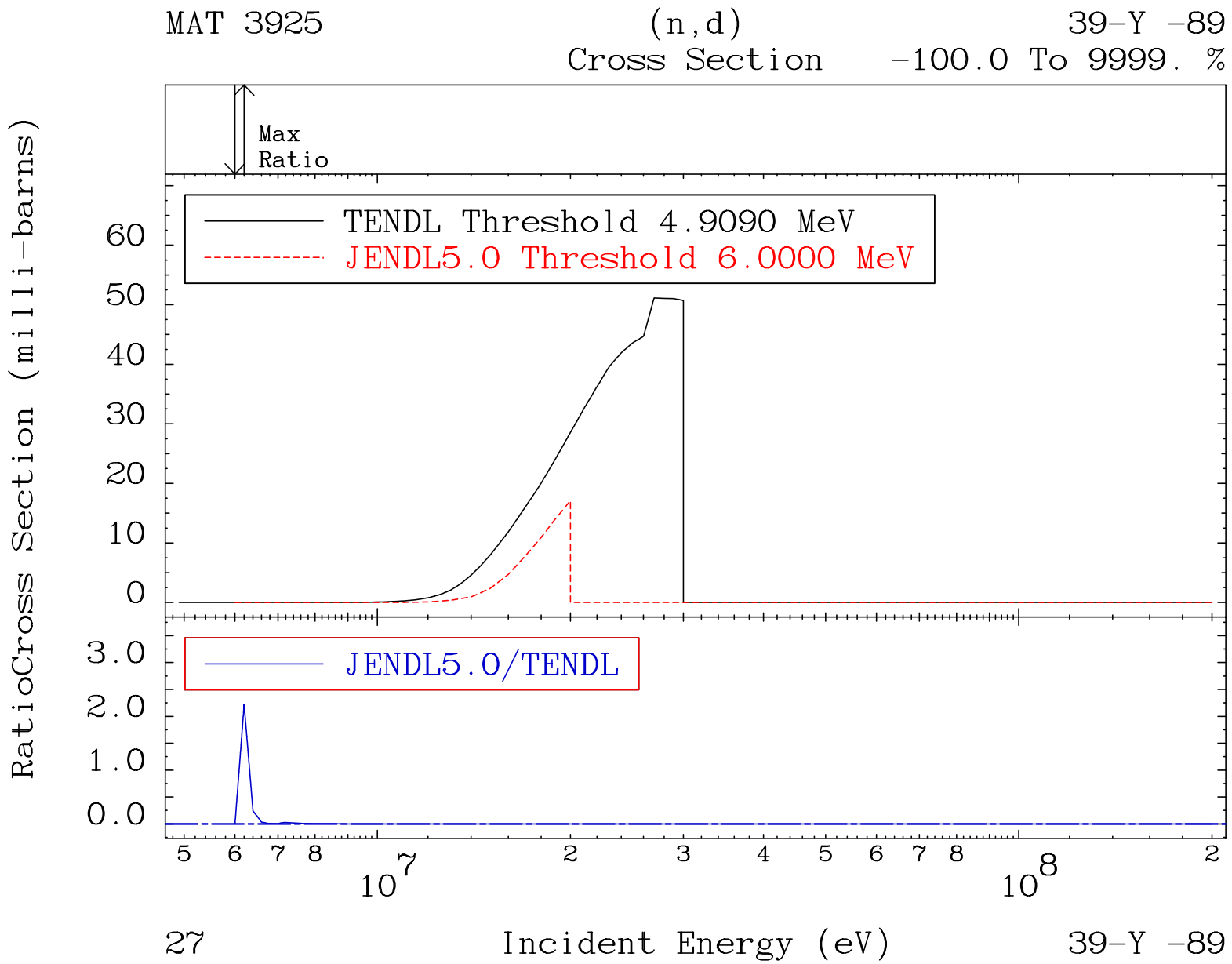

MAT 3925
MT= 64 (n,n') Level
39-Y -89
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 3.1745 MeV
JENDL5.0 Threshold 3.2843 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
4
2
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
39-Y -89

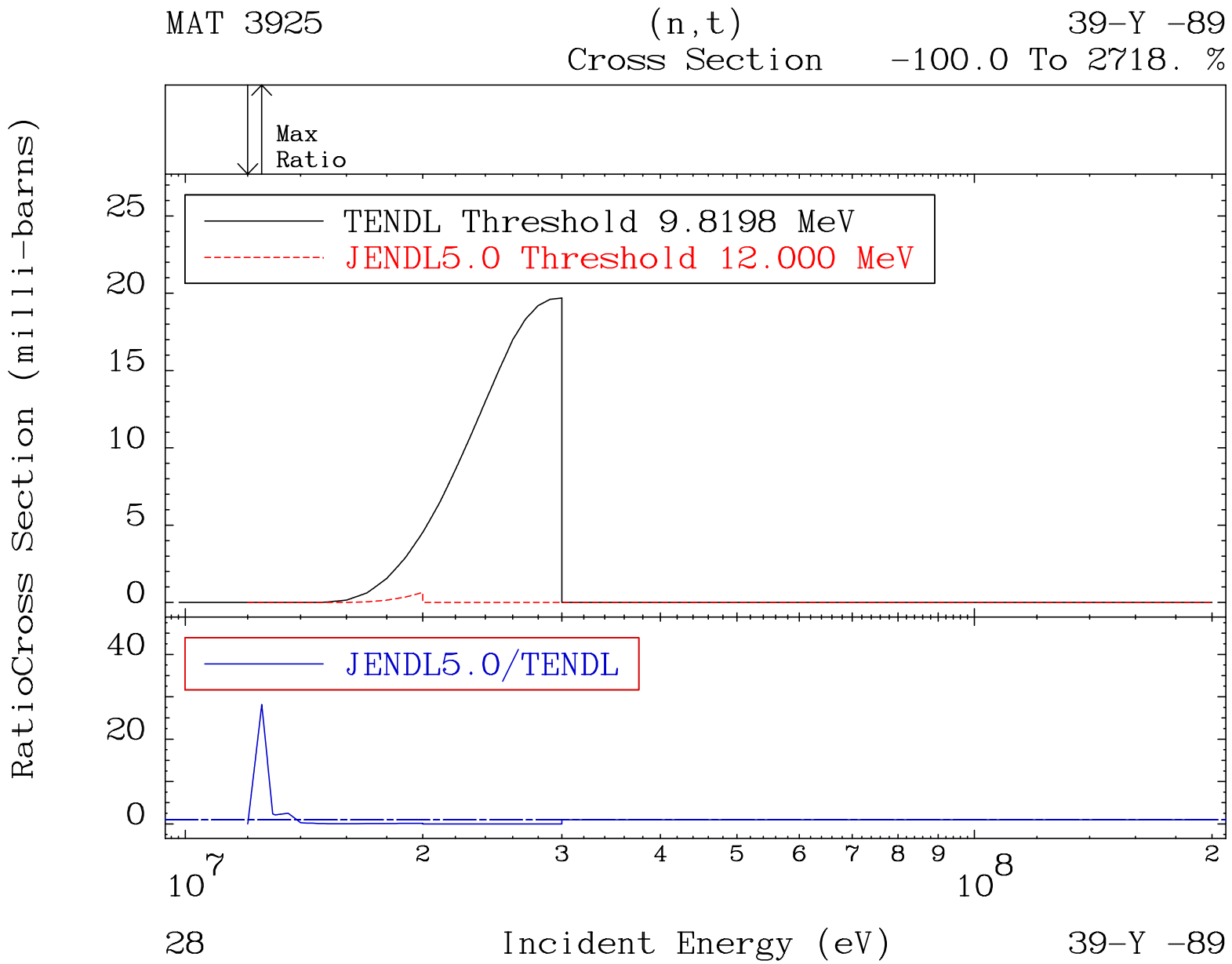

MAT 3925
MT= 65 (n,n') Level
39-Y -89
Cross Section -100.0 To 37.05 %
Min Ratio
Max Ratio
TENDL Threshold 3.2844 MeV
JENDL5.0 Threshold 3.3810 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
39-Y -89

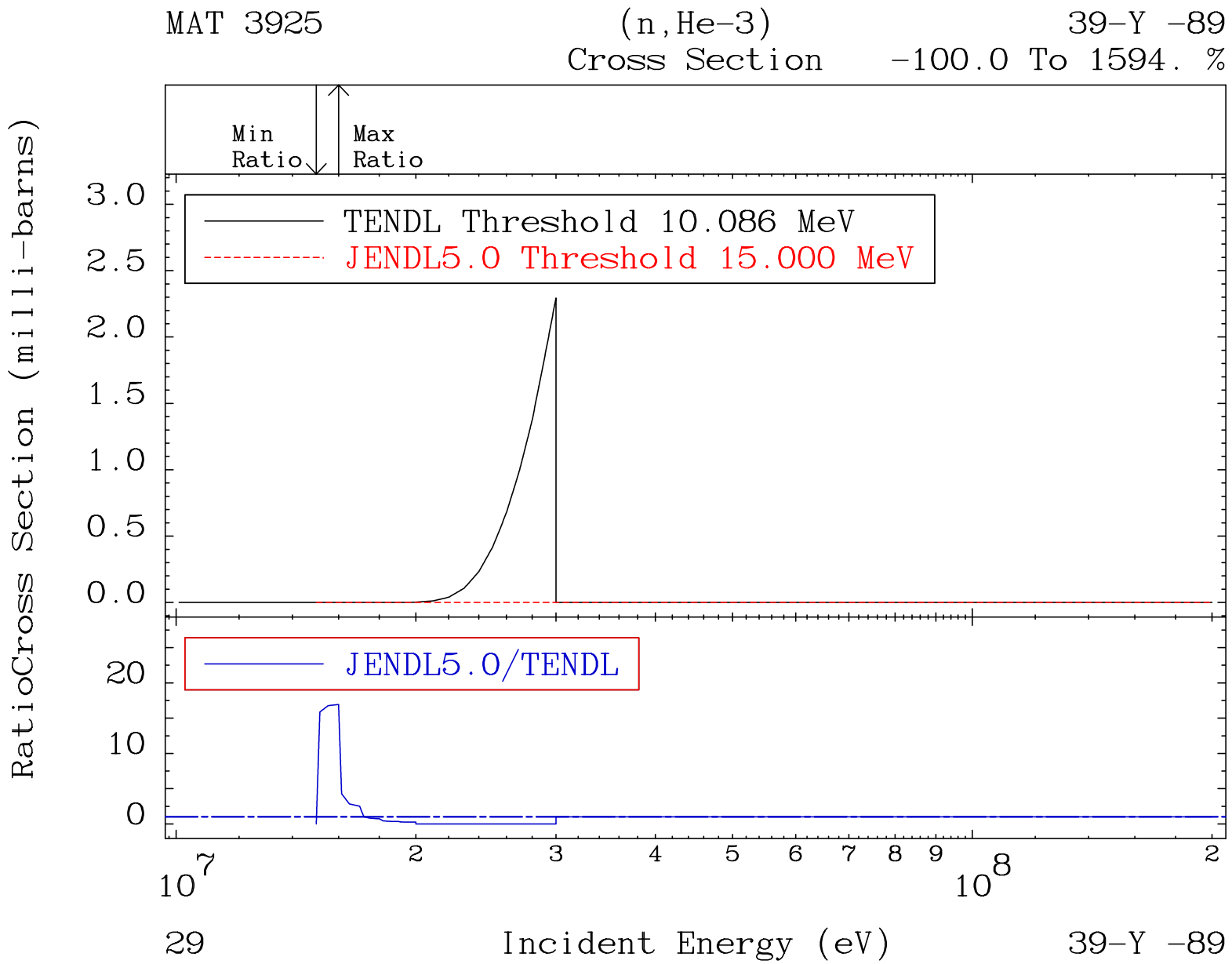

MAT 3925
(n,n') Continuum
39-Y -89
Cross Section
-100.0 To 6.281 %
Min Ratio
Max Ratio
TENDL Threshold 3.2844 MeV
JENDL5.0 Threshold 4.0786 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
24
Incident Energy (eV)
39-Y -89

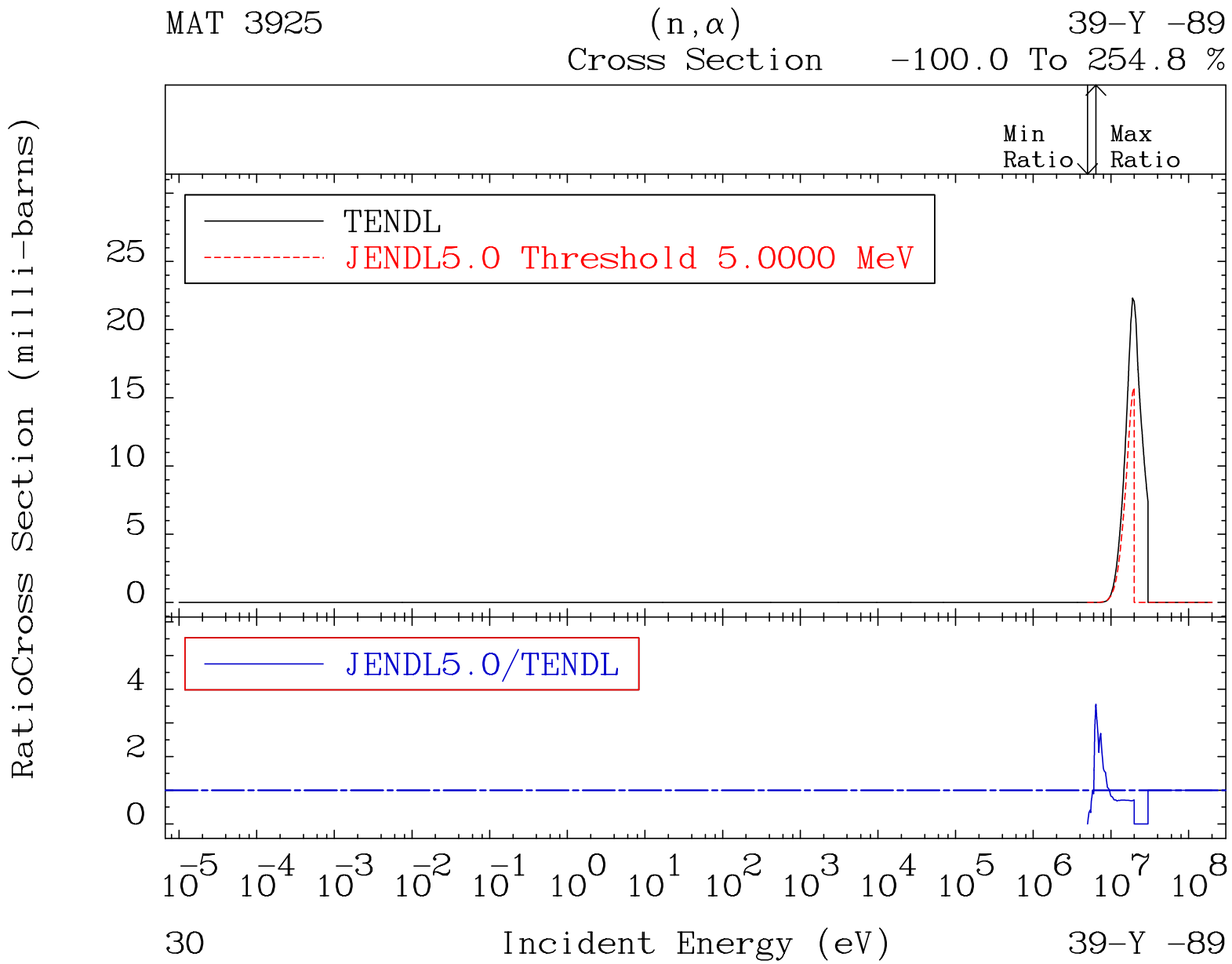

MAT 3925
(n,γ)
Cross Section
39-Y -89
-100.0 To 0.425 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^2
10^0
10^-2
10^-4
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
39-Y -89

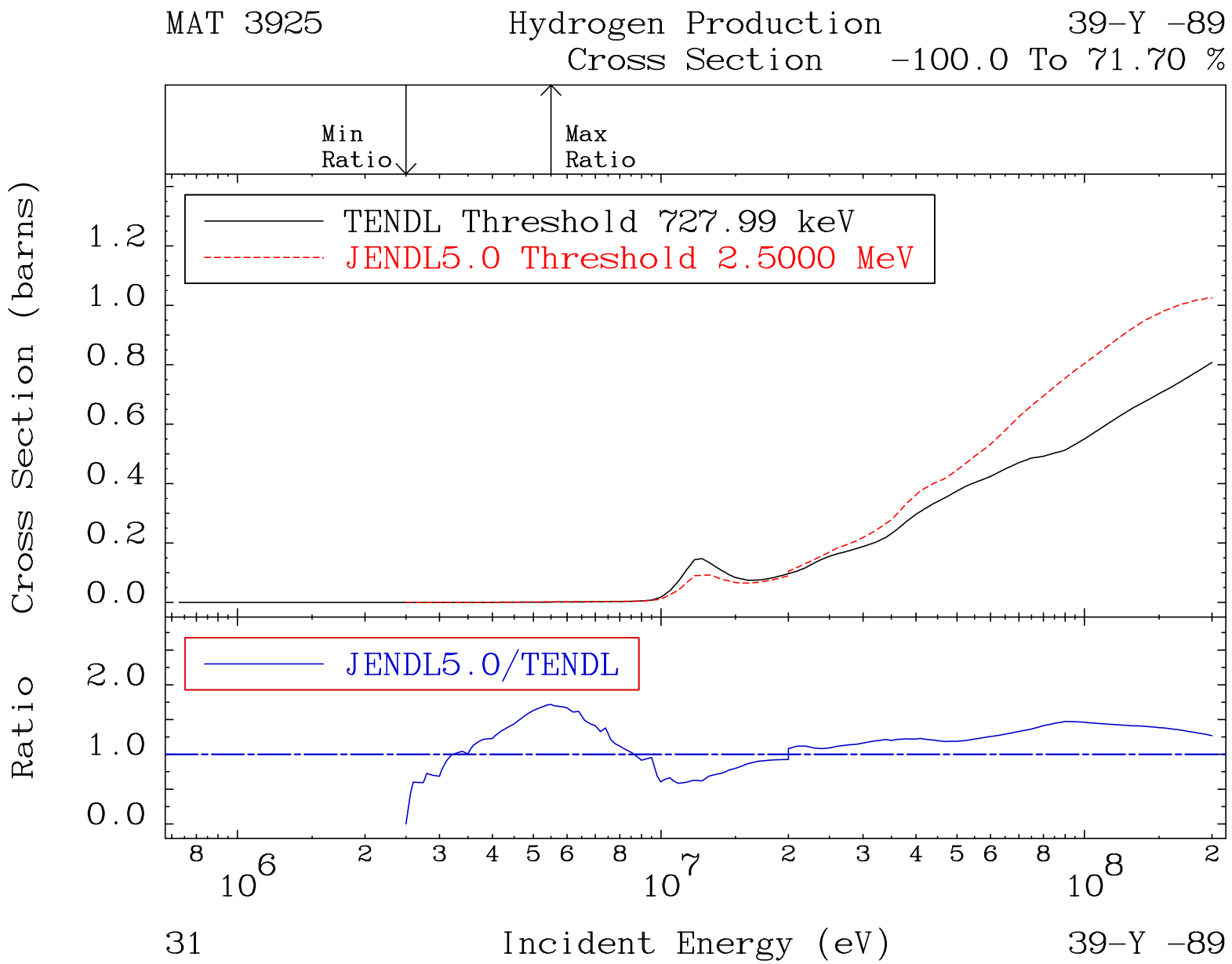

MAT 3925
(n,p)
39-Y -89
Cross Section
-100.0 To 71.70 %
Min Ratio
Max Ratio
TENDL Threshold 727.99 keV
JENDL5.0 Threshold 2.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
2.0
1.0
0.0
8
2
3
4
5
6
8
10^6
10^7
10^8
26
Incident Energy (eV)
39-Y -89

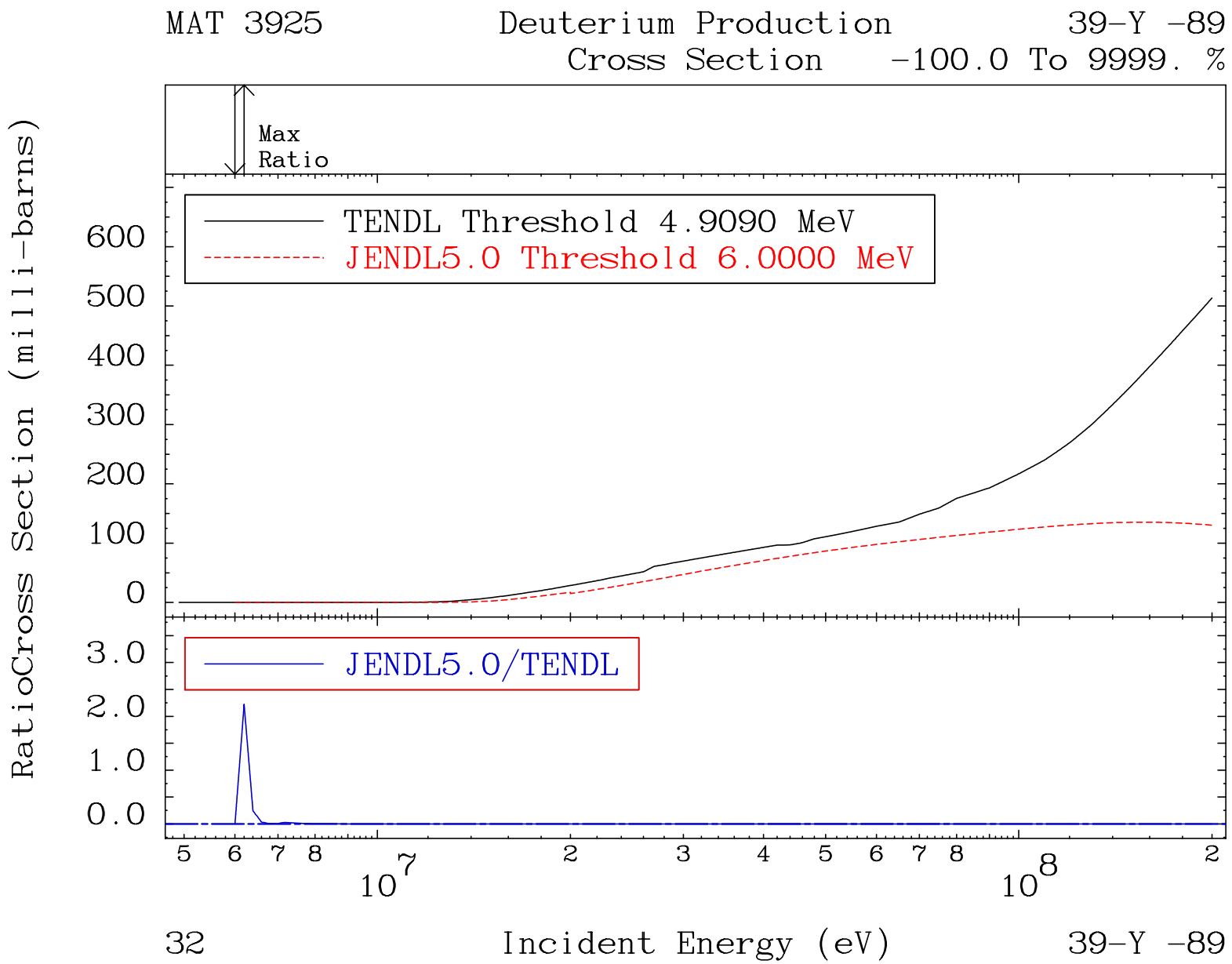

MAT 3925
(n,d)
39-Y -89
Cross Section
-100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.9090 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
3.0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
27
Incident Energy (eV)
39-Y -89

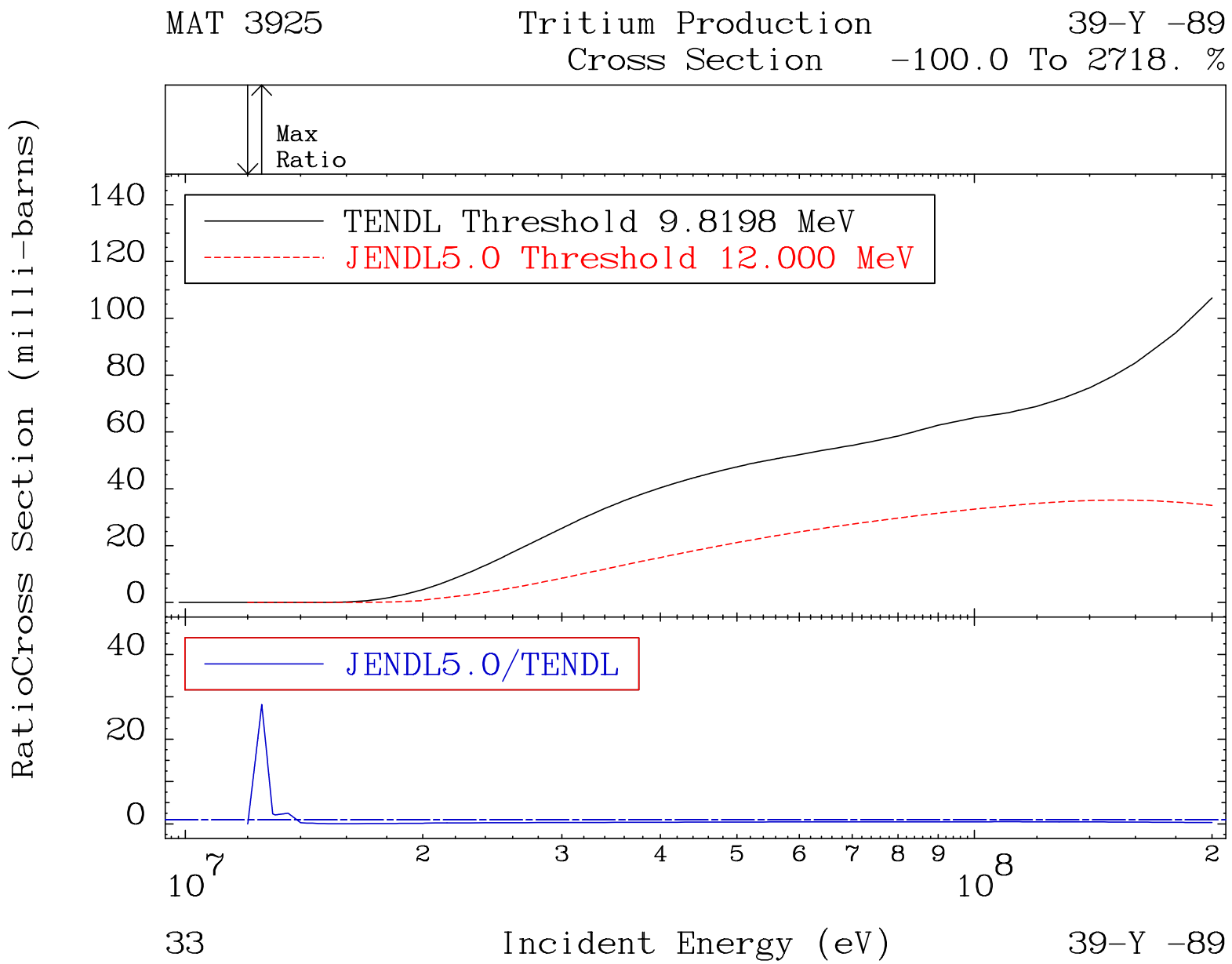

MAT 3925
(n,t)
39-Y -89
Cross Section
-100.0 To 2718. %
Max
Ratio
TENDL Threshold 9.8198 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
39-Y -89

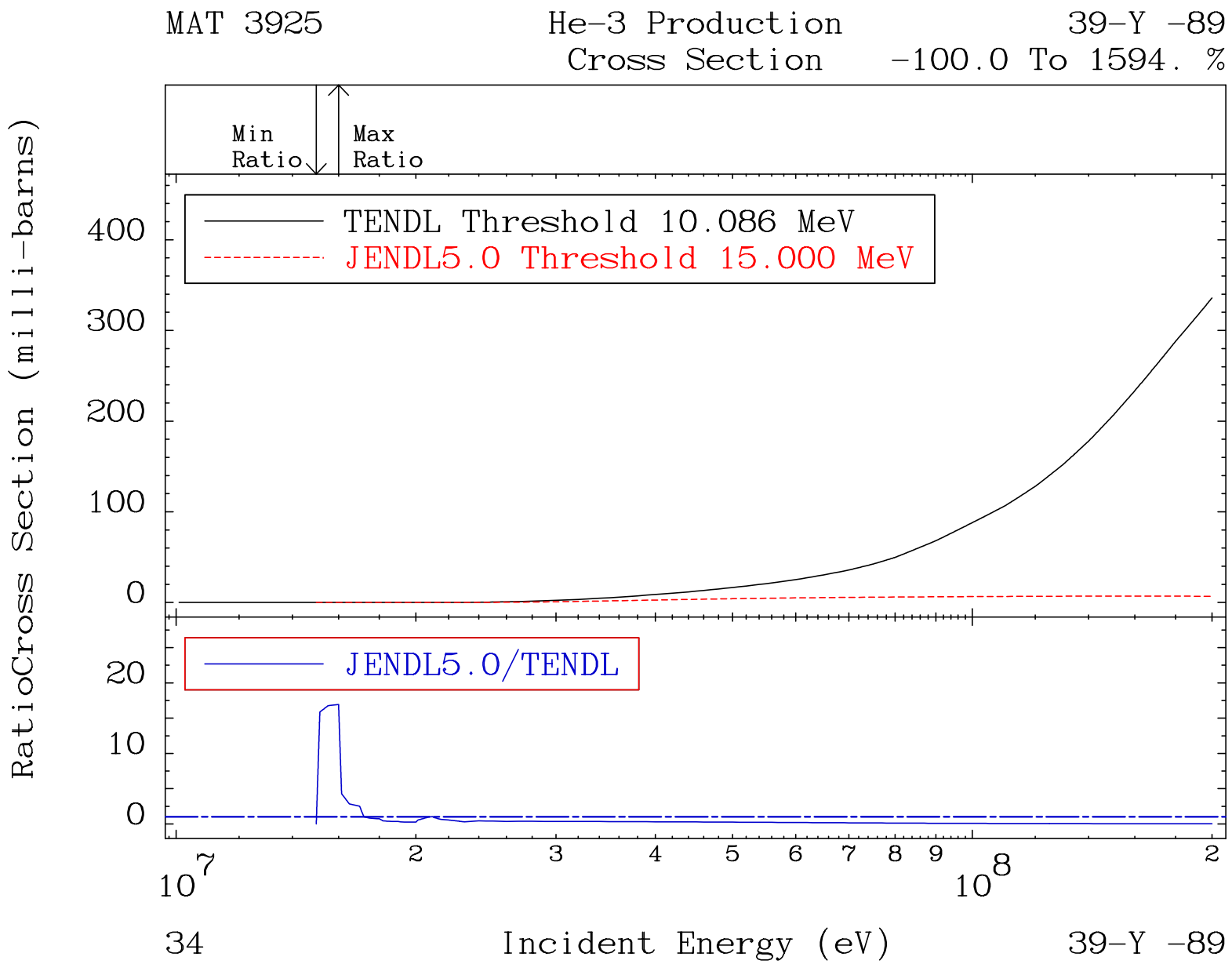

MAT 3925
(n,He-3)
Cross Section
39-Y -89
-100.0 To 1594. %
Min Ratio
Max Ratio
TENDL Threshold 10.086 MeV
JENDL5.0 Threshold 15.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
20
10
0
10^7
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
39-Y -89

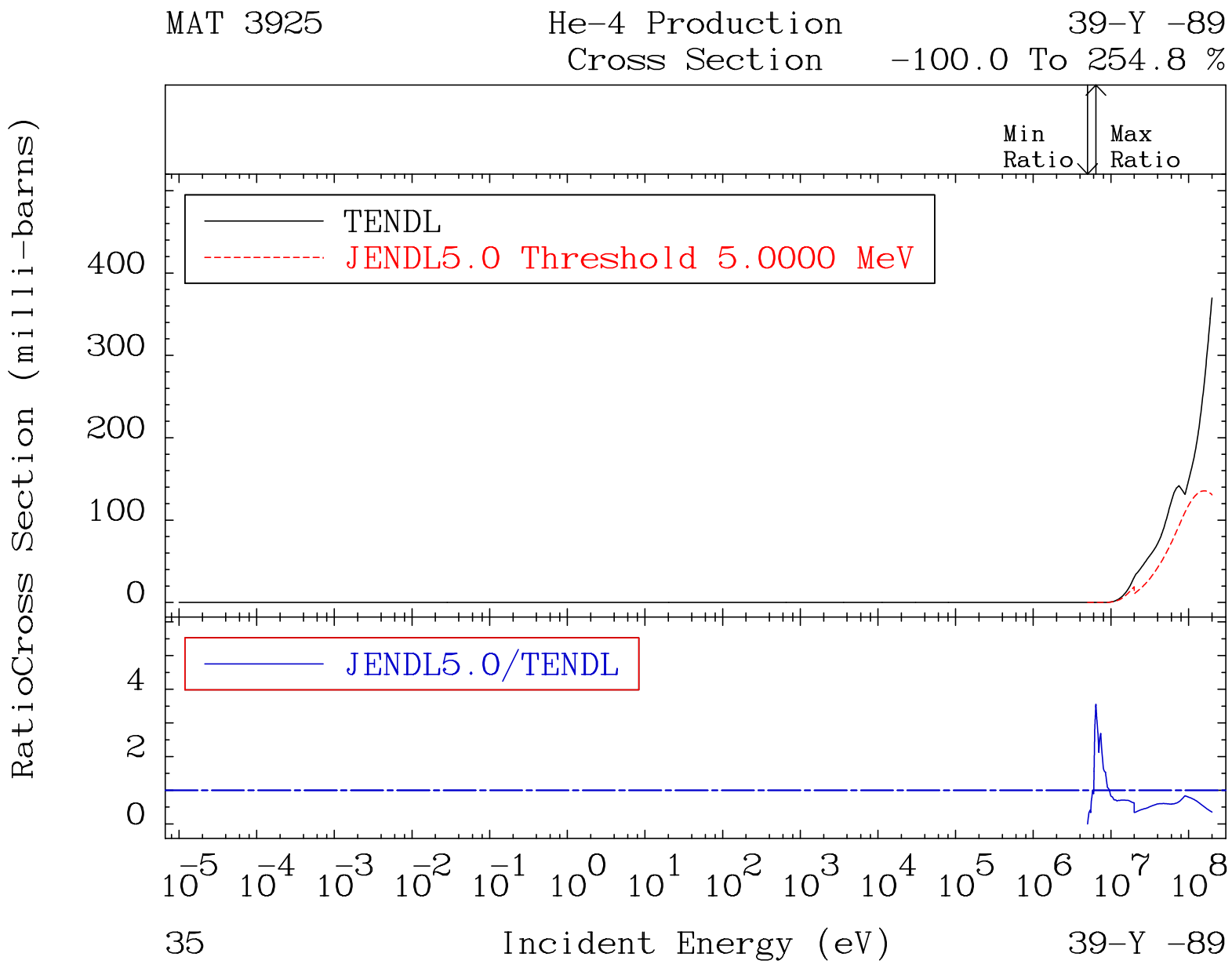

MAT 3925
(n,α)
Cross Section
39-Y -89
-100.0 To 254.8 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
30
Incident Energy (eV)
39-Y -89

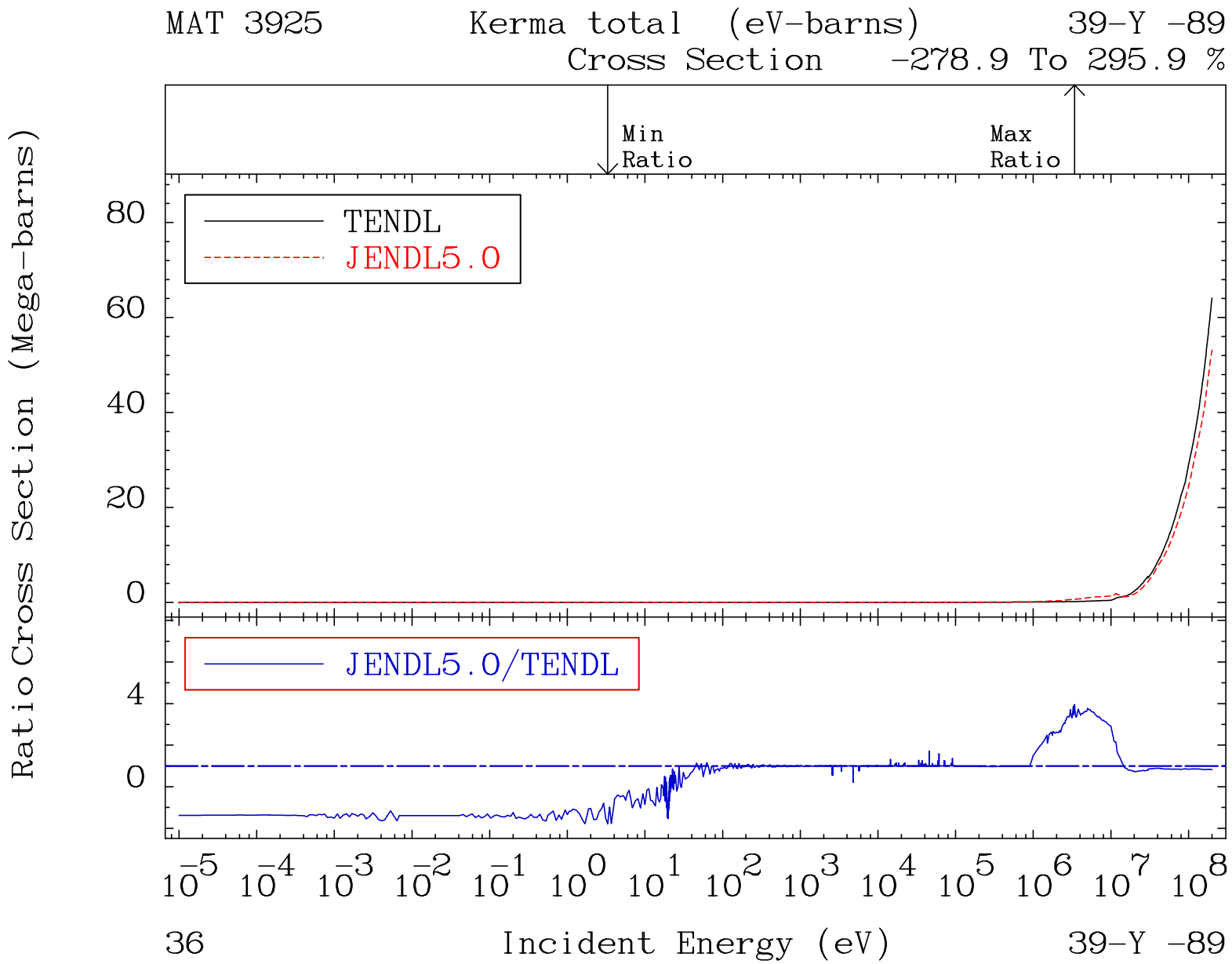

MAT 3925
Hydrogen Production
39-Y -89
Cross Section -100.0 To 71.70 %
Min Ratio
Max Ratio
TENDL Threshold 727.99 keV
JENDL5.0 Threshold 2.5000 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
2.0
1.0
0.0
8
2
3
4
5
6
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
31
Incident Energy (eV)
39-Y -89

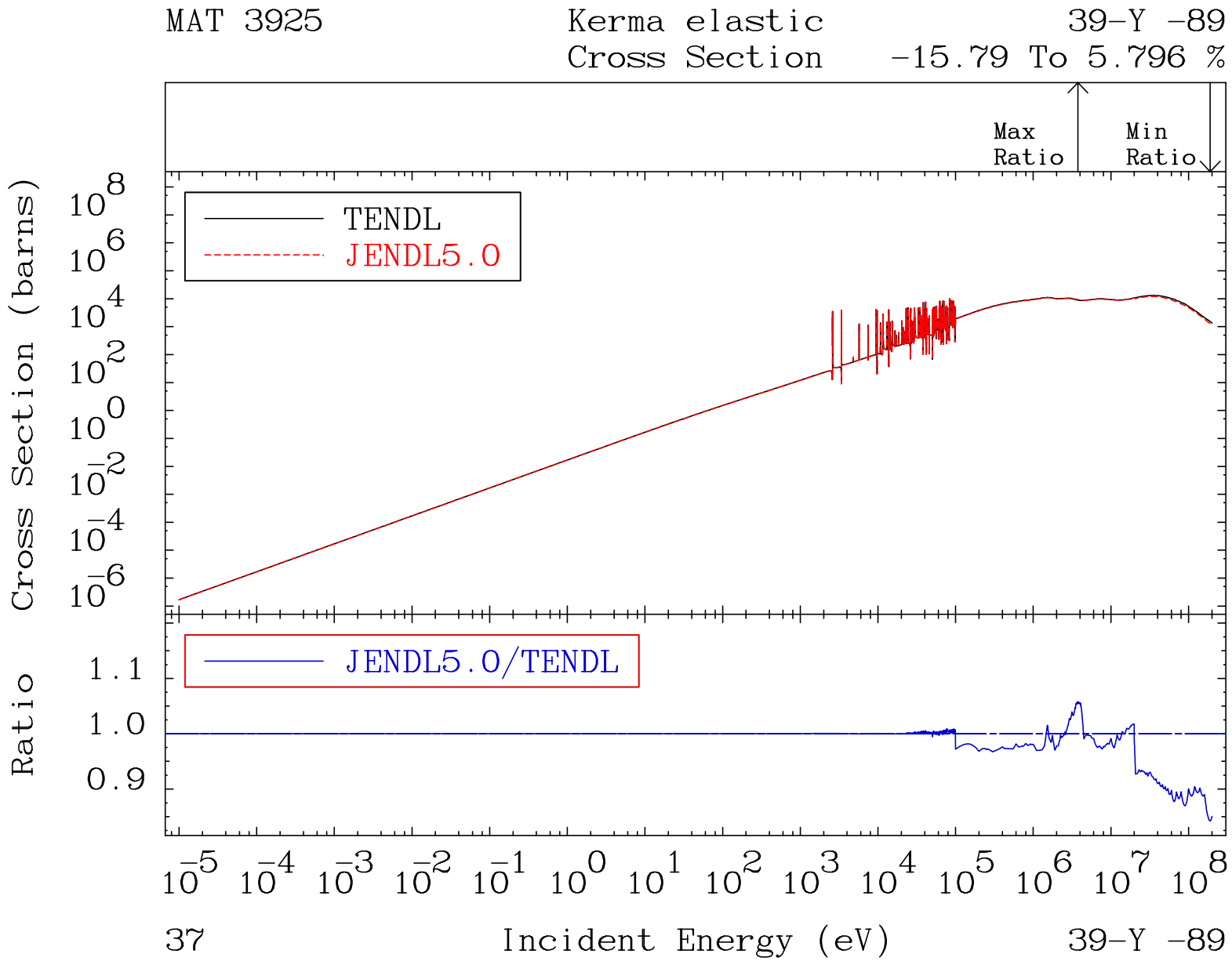

MAT 3925
Deuterium Production
39-Y -89
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL Threshold 4.9090 MeV
JENDL5.0 Threshold 6.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
600
500
400
300
200
100
0
3.0
2.0
1.0
0.0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
39-Y -89

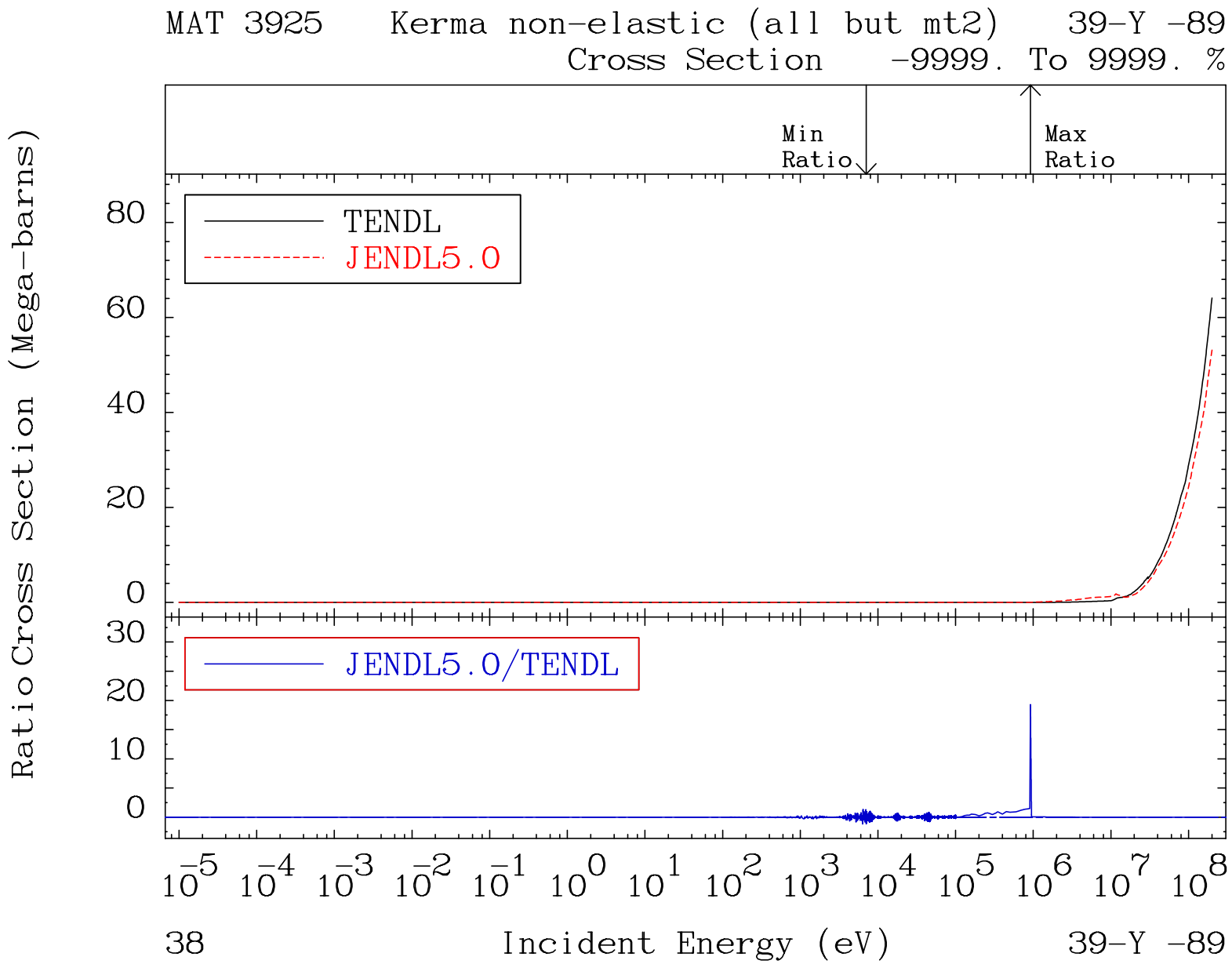

MAT 3925
Tritium Production
39-Y -89
Cross Section
-100.0 To 2718. %
Max
Ratio
TENDL Threshold 9.8198 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
40
20
0
10^7
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
39-Y -89

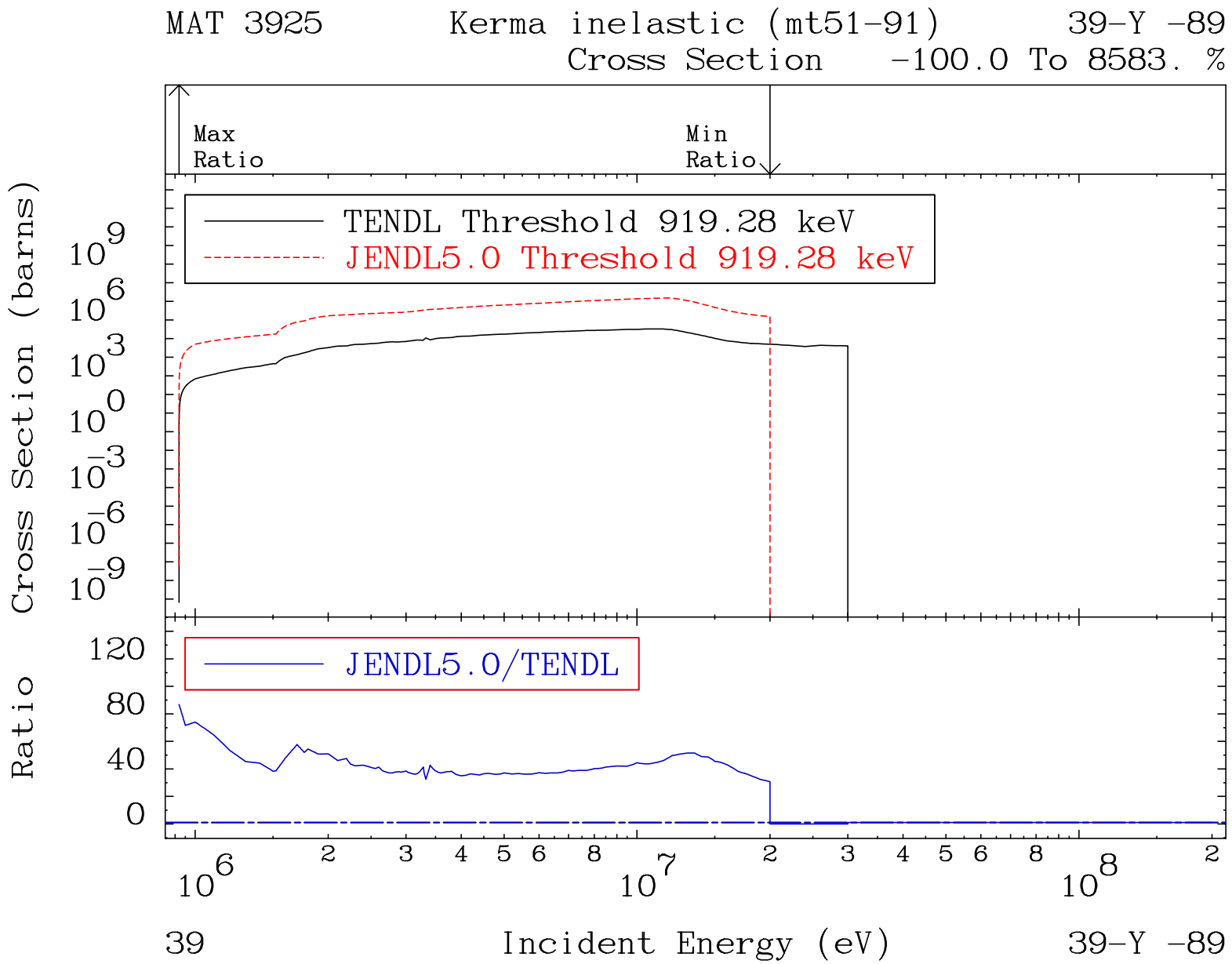

MAT 3925
He-3 Production
Cross Section
39-Y -89
-100.0 To 1594. %
Min Ratio
Max Ratio
TENDL Threshold 10.086 MeV
JENDL5.0 Threshold 15.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
20
10
0
10^7
2
3
4
5
6
7
8
9
10^8
2
34
Incident Energy (eV)
39-Y -89

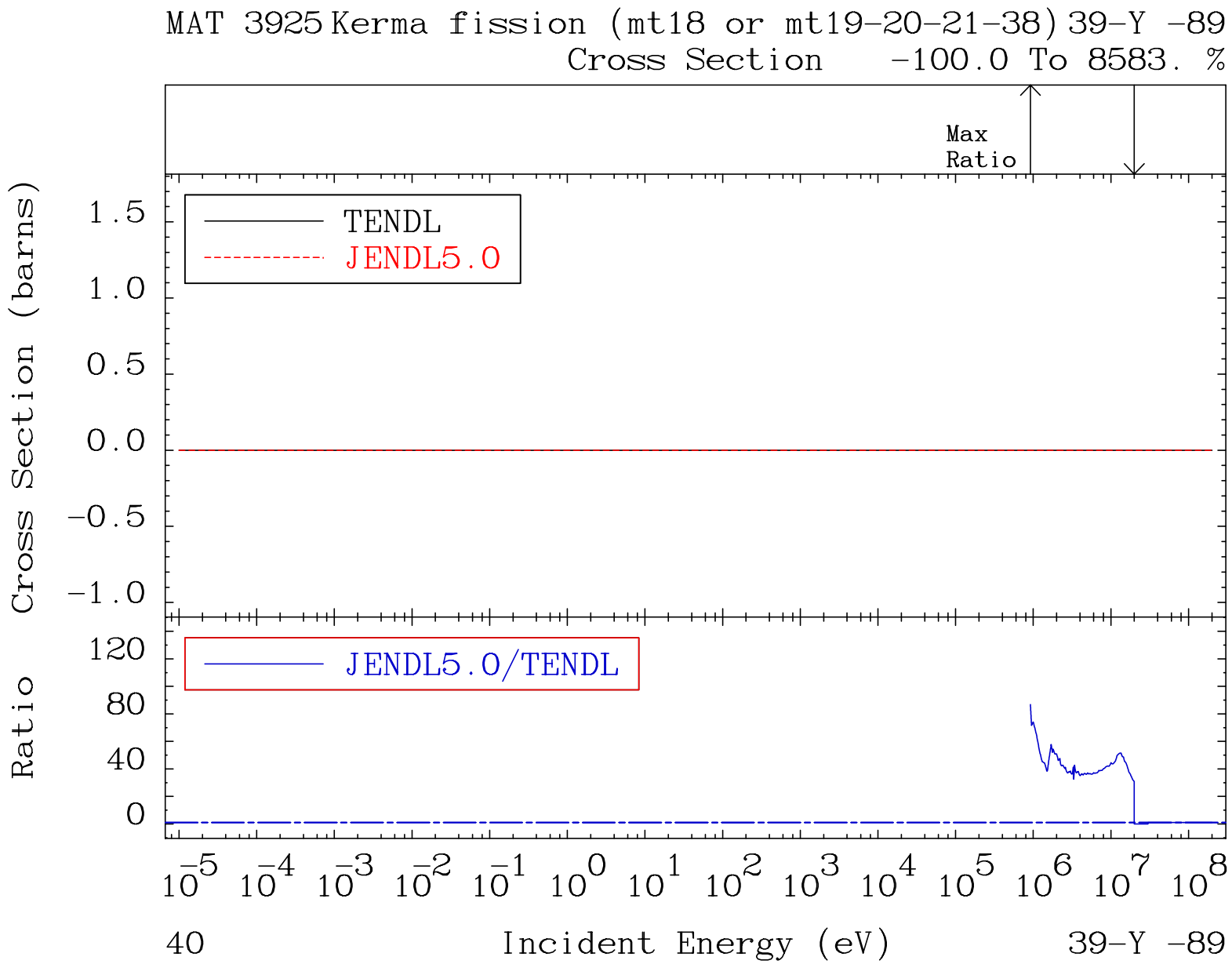

MAT 3925
He-4 Production
Cross Section
39-Y -89
-100.0 To 254.8 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 5.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
35
Incident Energy (eV)
39-Y -89

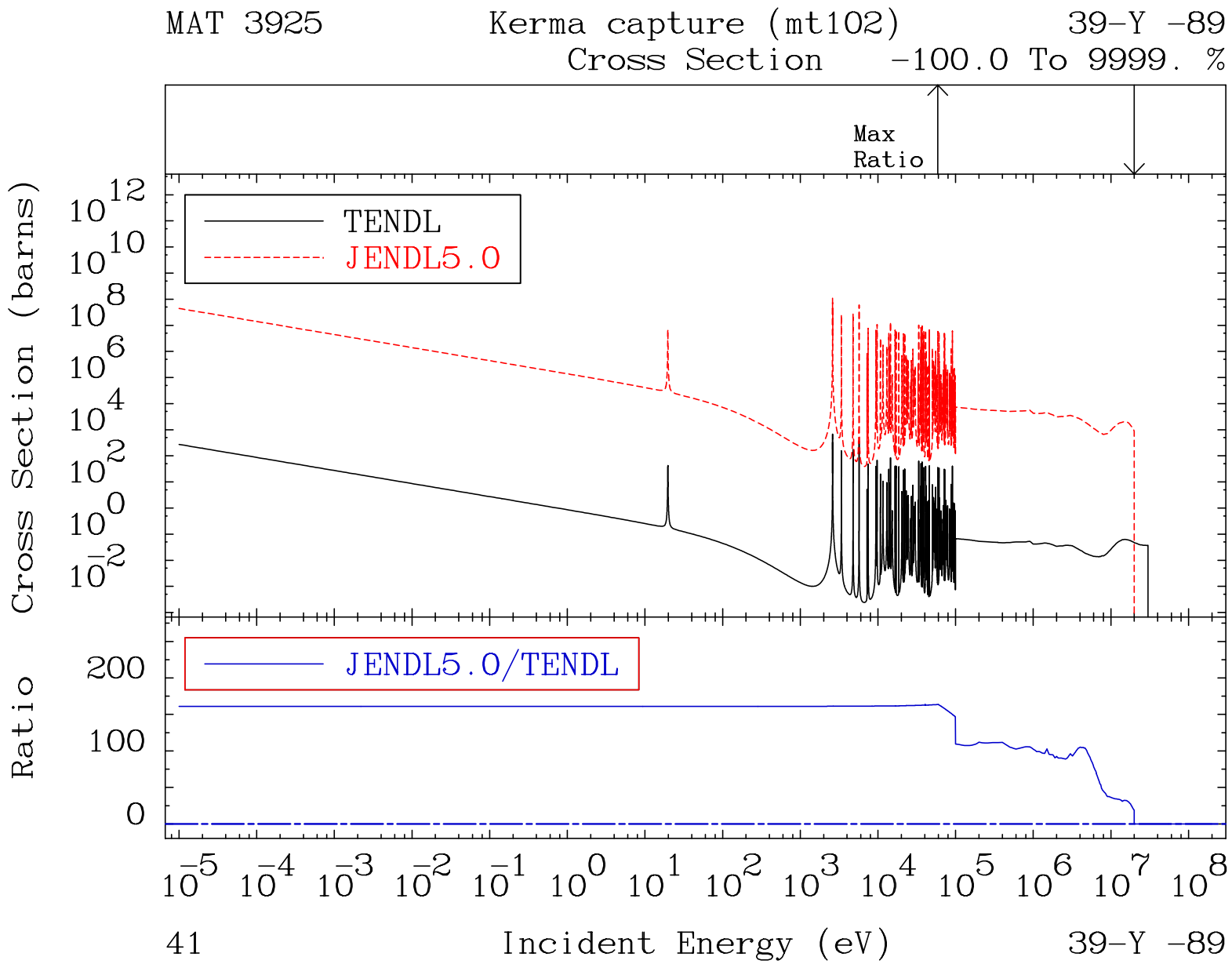

MAT 3925
Kerma total (eV-barns)
39-Y -89
Cross Section -278.9 To 295.9 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
80
60
40
20
0
4
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
36
Incident Energy (eV)
39-Y -89

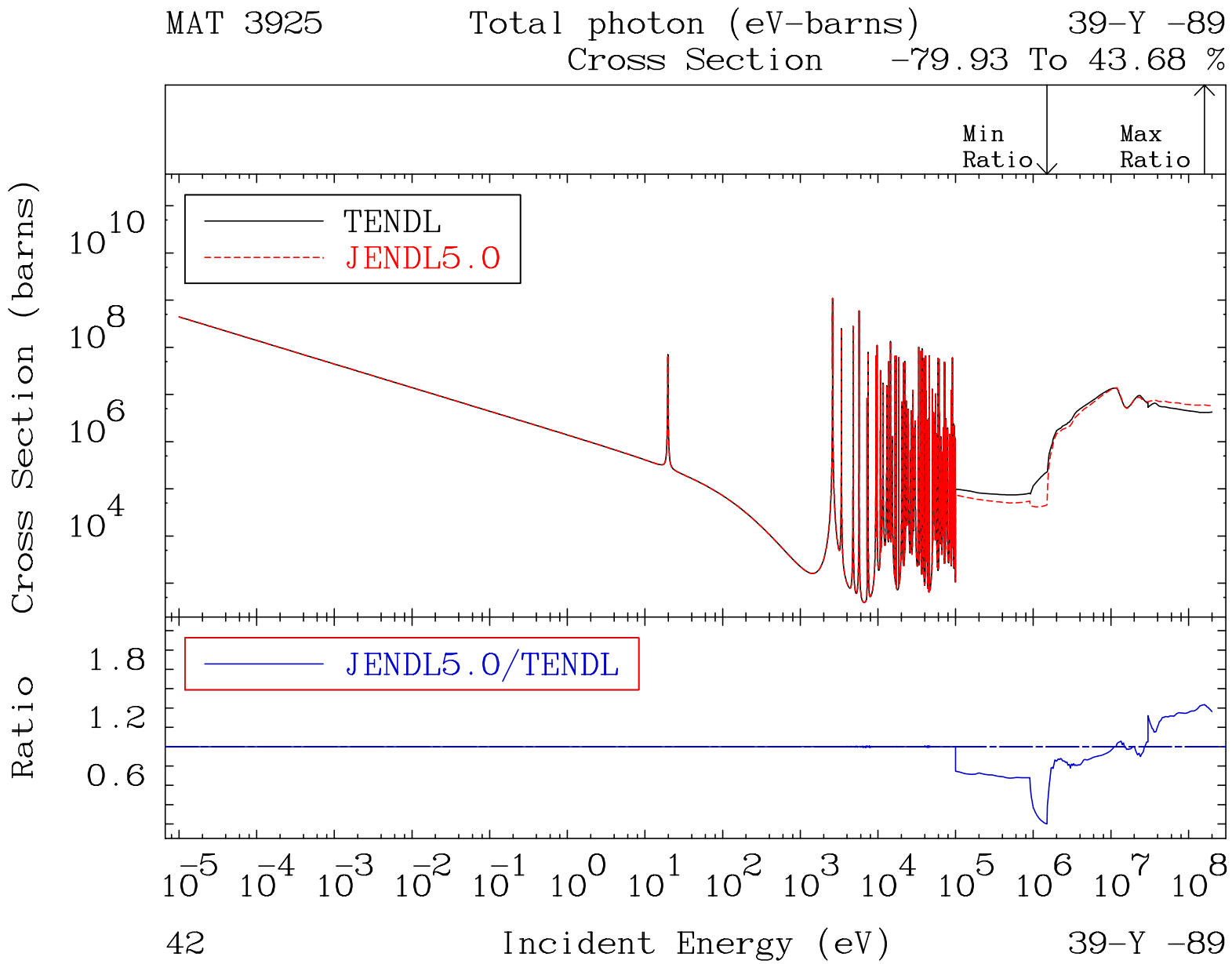

MAT 3925
Kerma elastic
Cross Section
39-Y -89
-15.79 To 5.796 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
37
39-Y -89

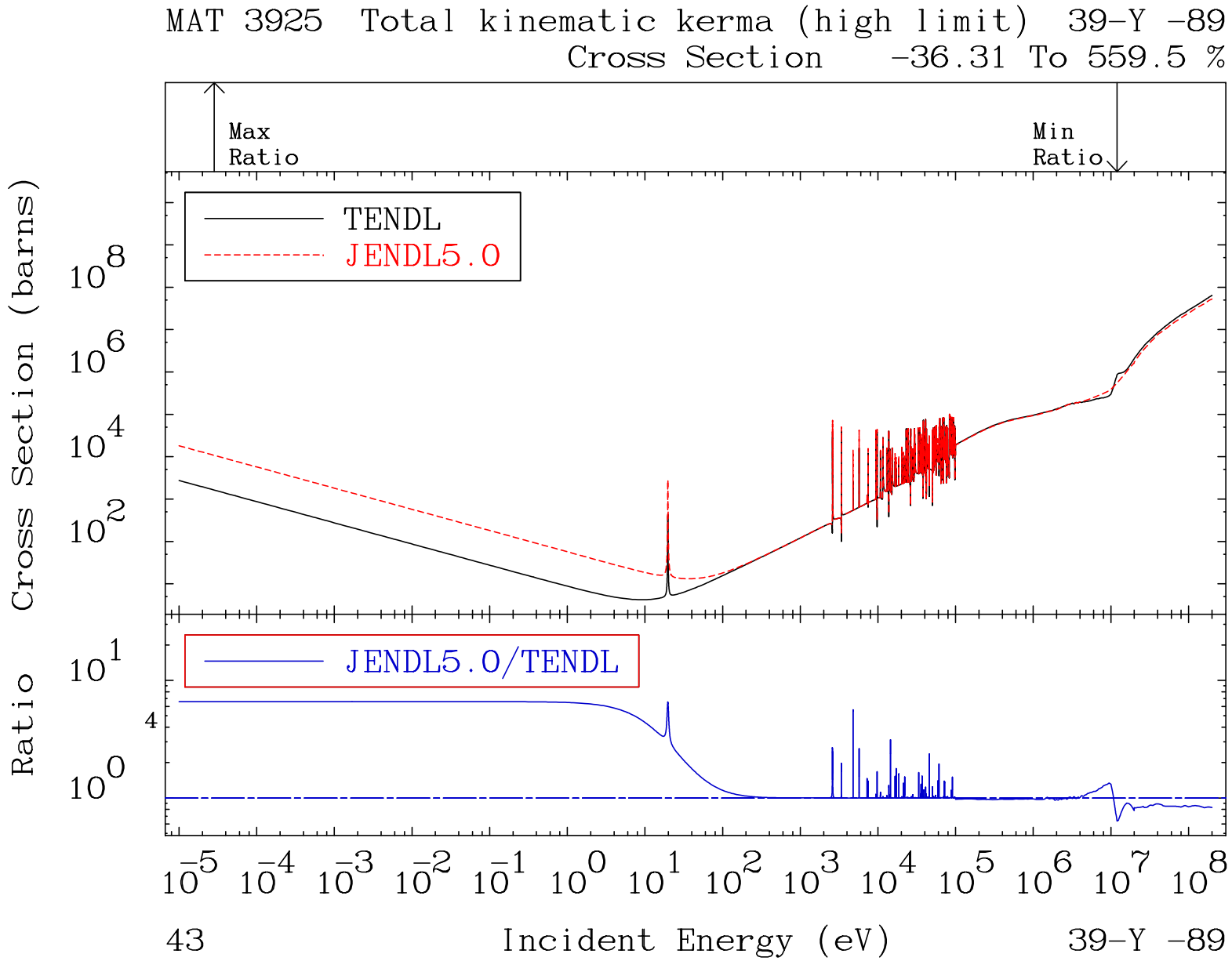

MAT 3925 Kerma non-elastic (all but mt2) 39-Y -89
Cross Section -9999. To 9999. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Ratio Cross Section (Mega-barns)
80
60
40
20
0
30
20
10
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
38
Incident Energy (eV)
39-Y -89

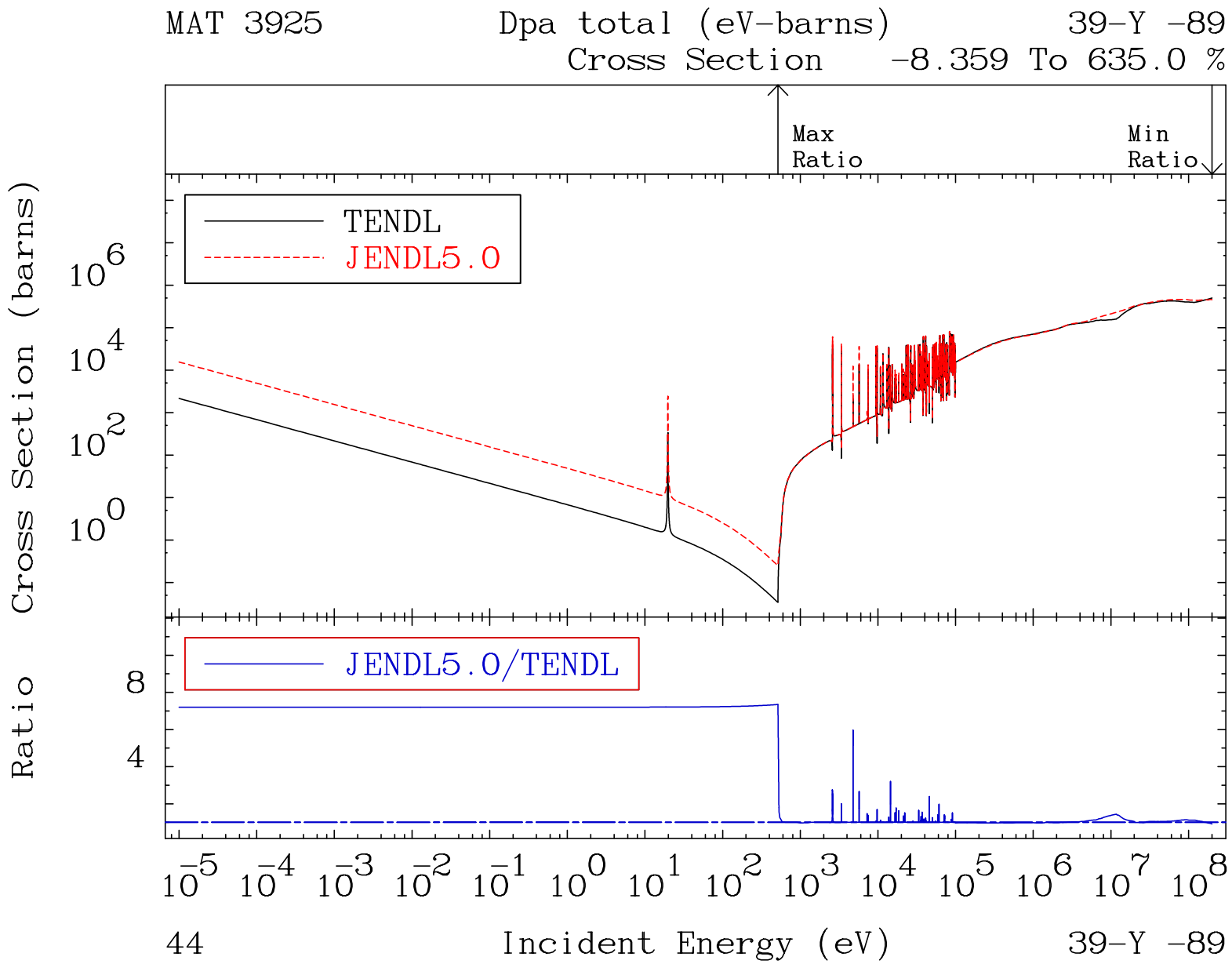

MAT 3925
Kerma inelastic (mt51-91)
39-Y -89
Cross Section -100.0 To 8583. %
Max Ratio
Min Ratio
TENDL Threshold 919.28 keV
JENDL5.0 Threshold 919.28 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
39
39-Y -89

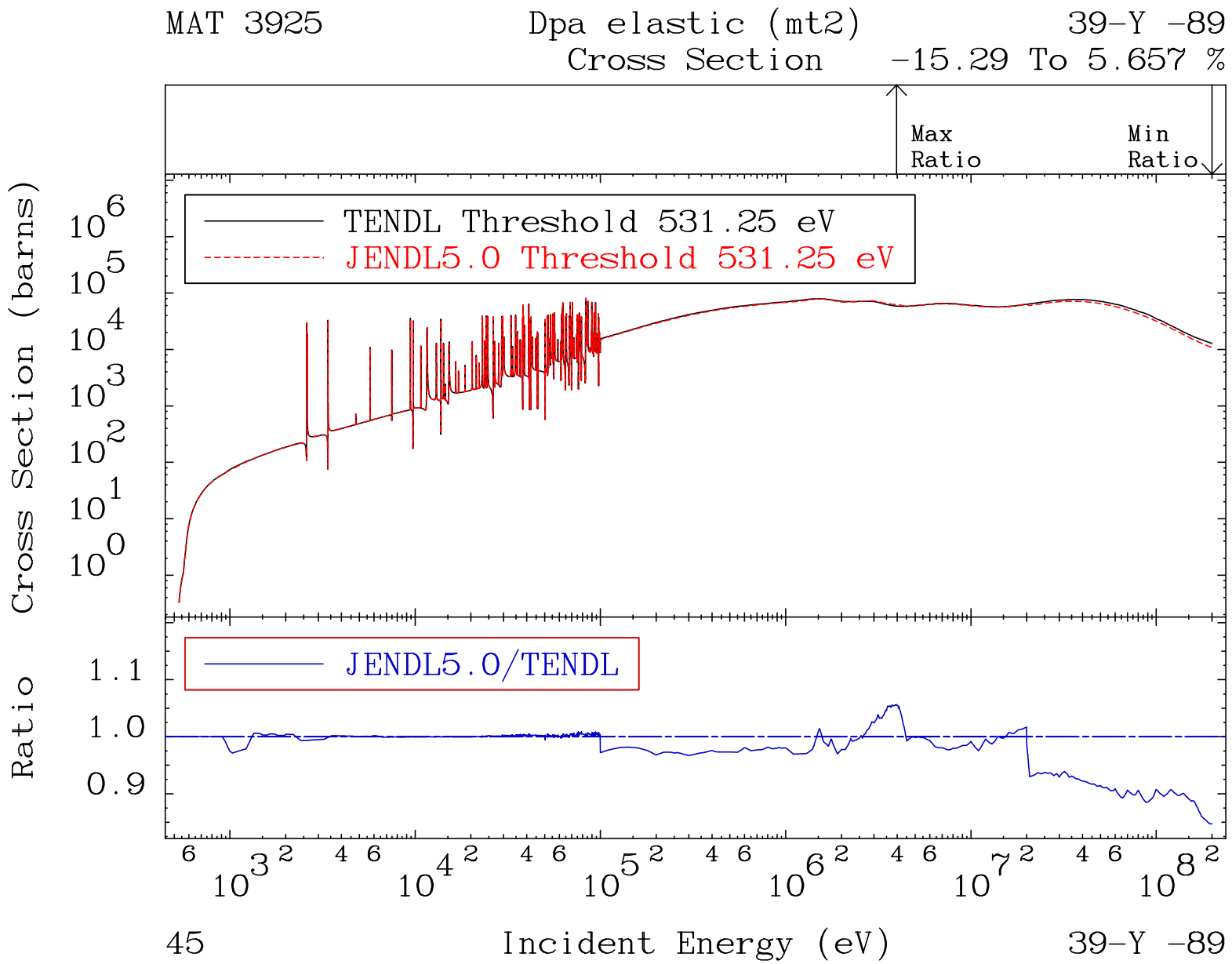

MAT 3925 Kerma fission (mt18 or mt19-20-21-38) 39-Y -89
Cross Section -100.0 To 8583. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
120
80
40
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
40
Incident Energy (eV)
39-Y -89

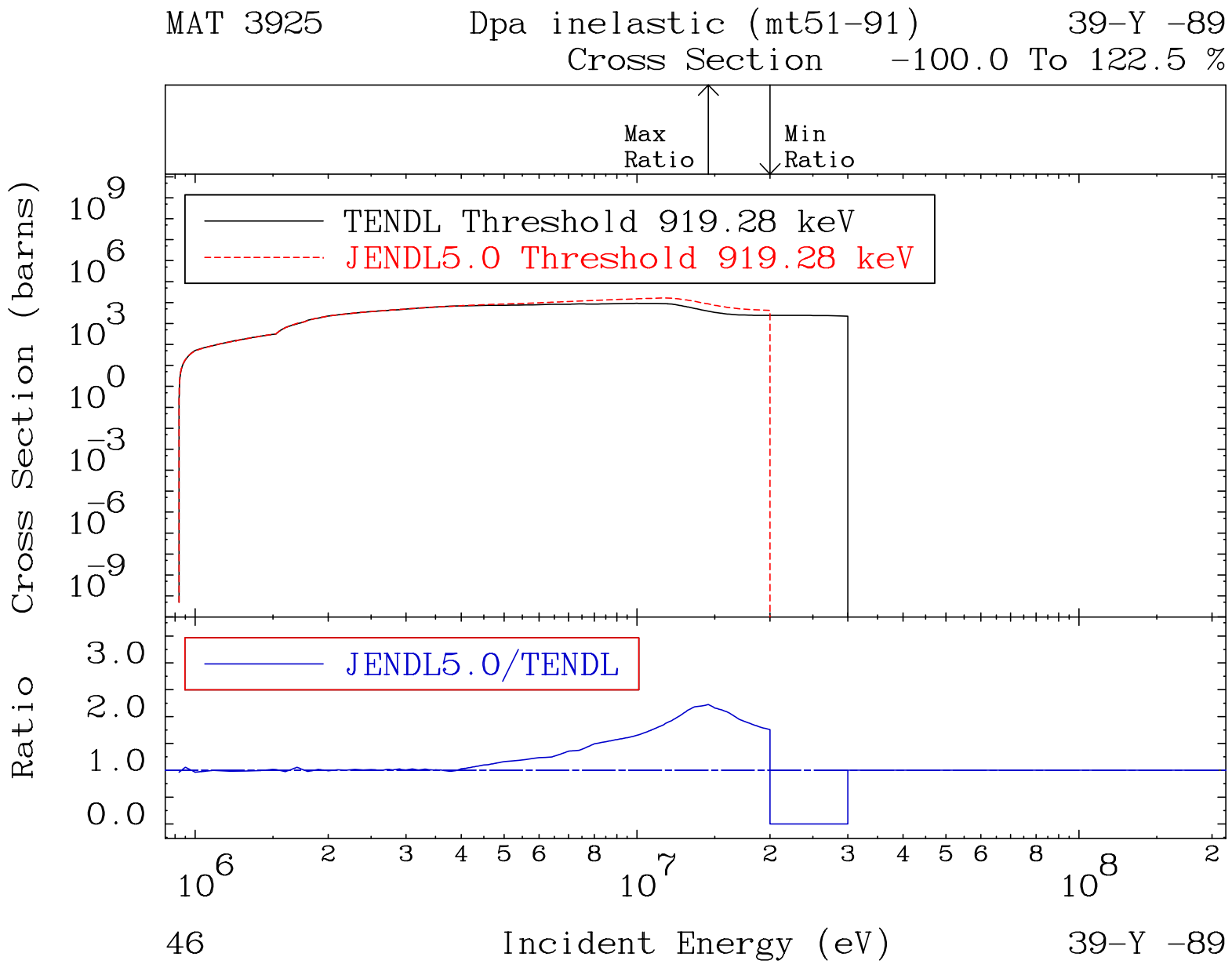

MAT 3925
Kerma capture (mt102)
39-Y -89
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
41
39-Y -89

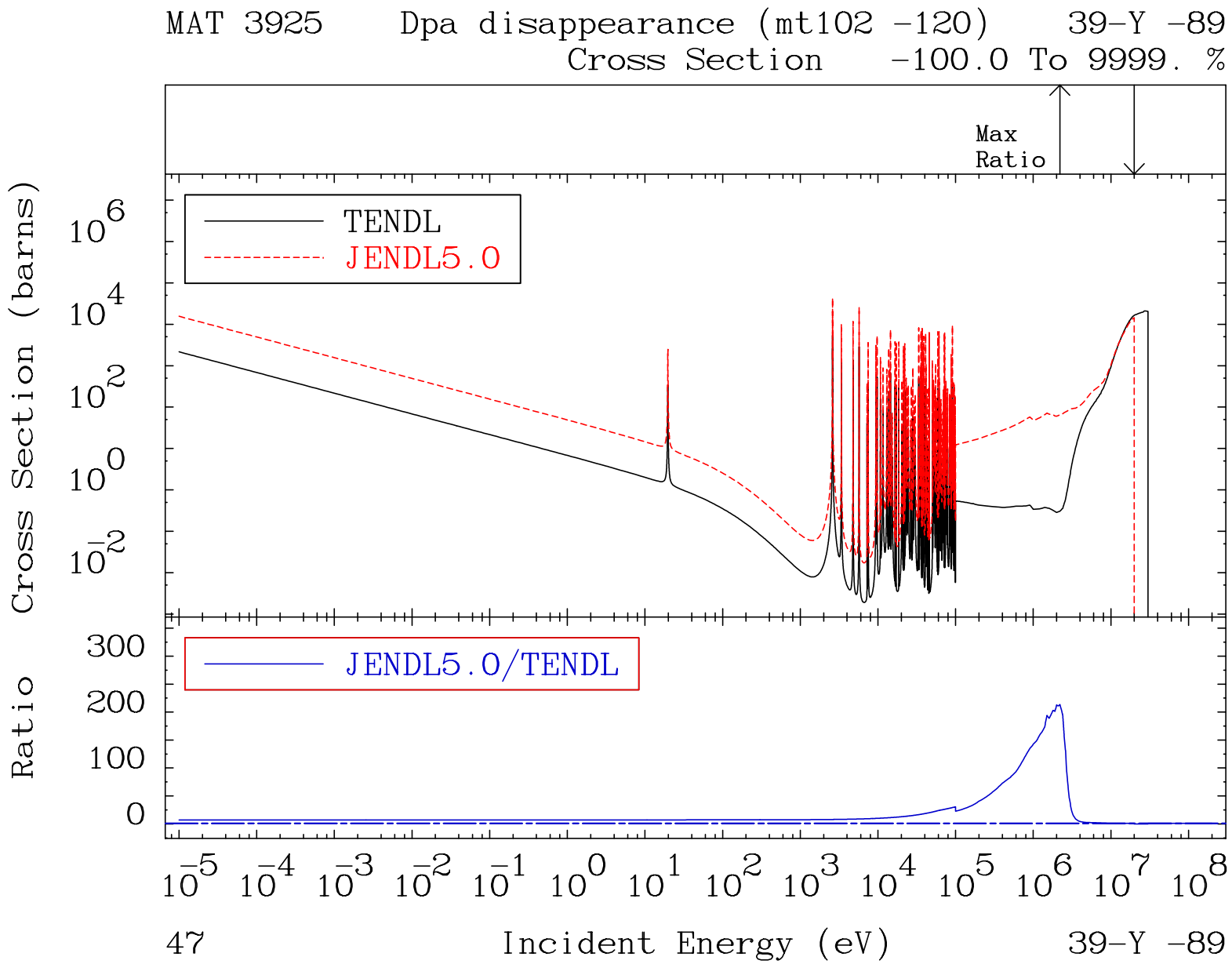

MAT 3925
Total photon (eV-barns)
39-Y -89
Cross Section -79.93 To 43.68 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^{10}
10^{8}
10^{6}
10^{4}
JENDL5.0/TENDL
Ratio
1.8
1.2
0.6
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
42
Incident Energy (eV)
39-Y -89

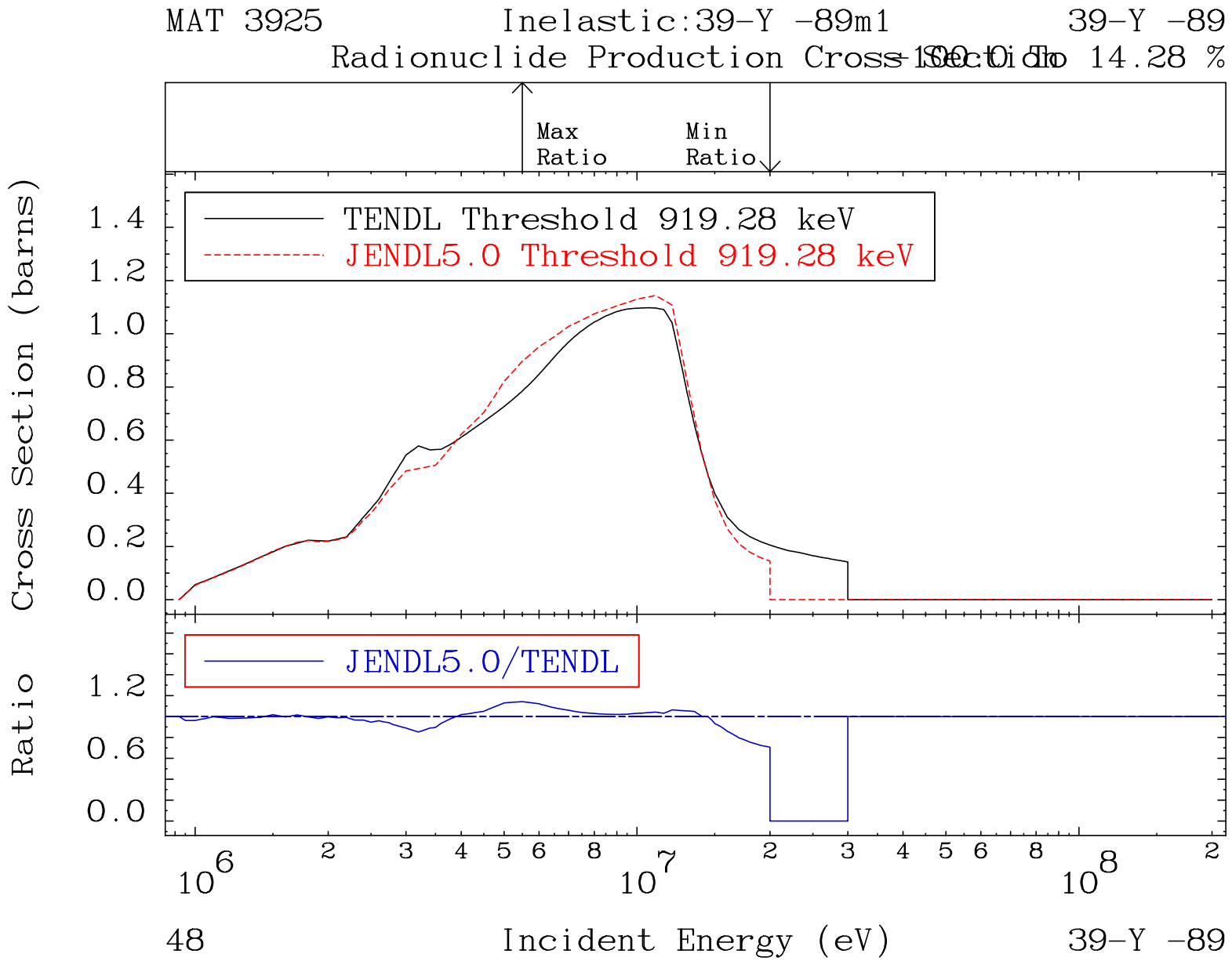

MAT 3925 Total kinematic kerma (high limit) 39-Y -89
Cross Section -36.31 To 559.5 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
39-Y -89

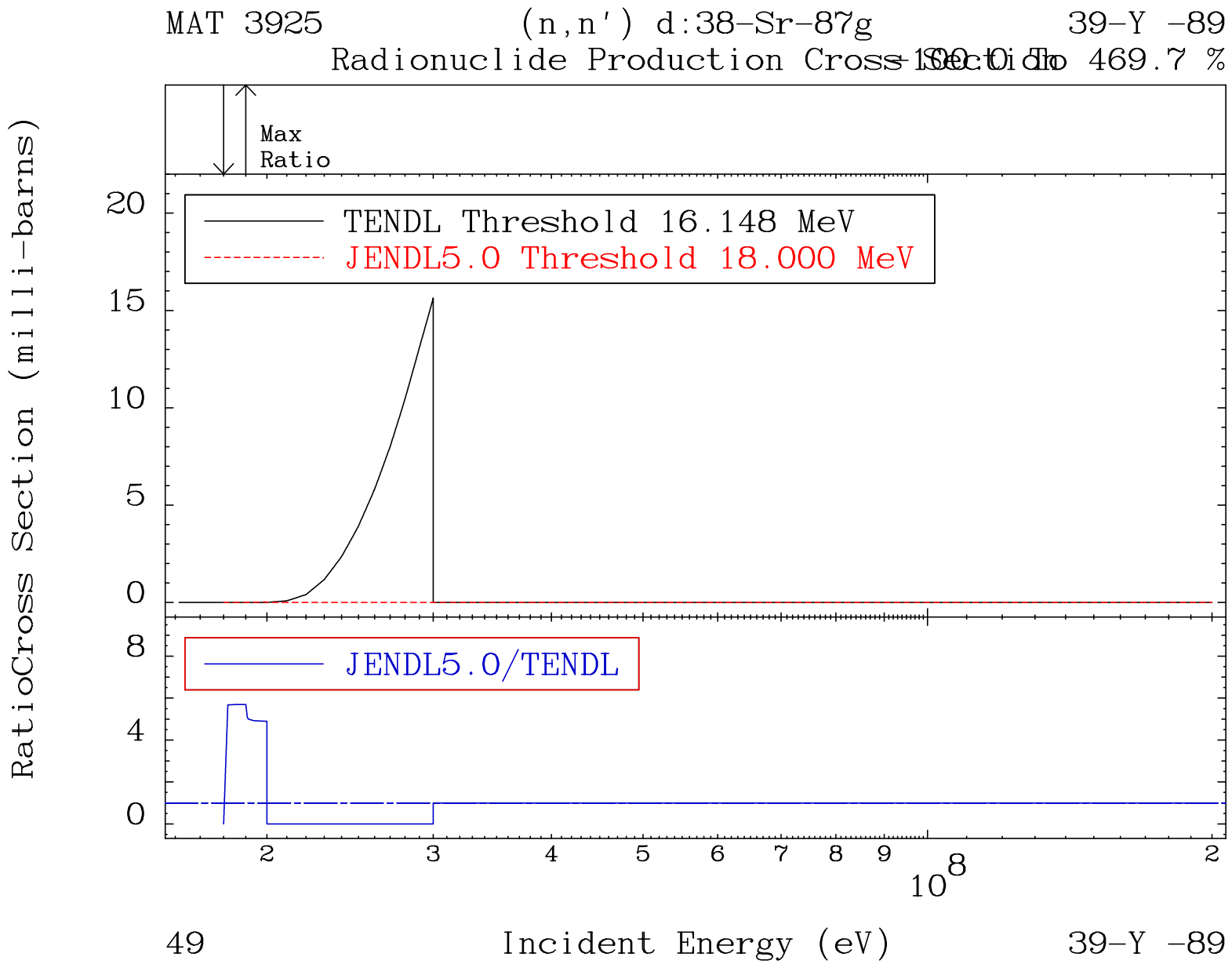

MAT 3925
Dpa total (eV-barns)
39-Y -89
Cross Section -8.359 To 635.0 %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
44
39-Y -89

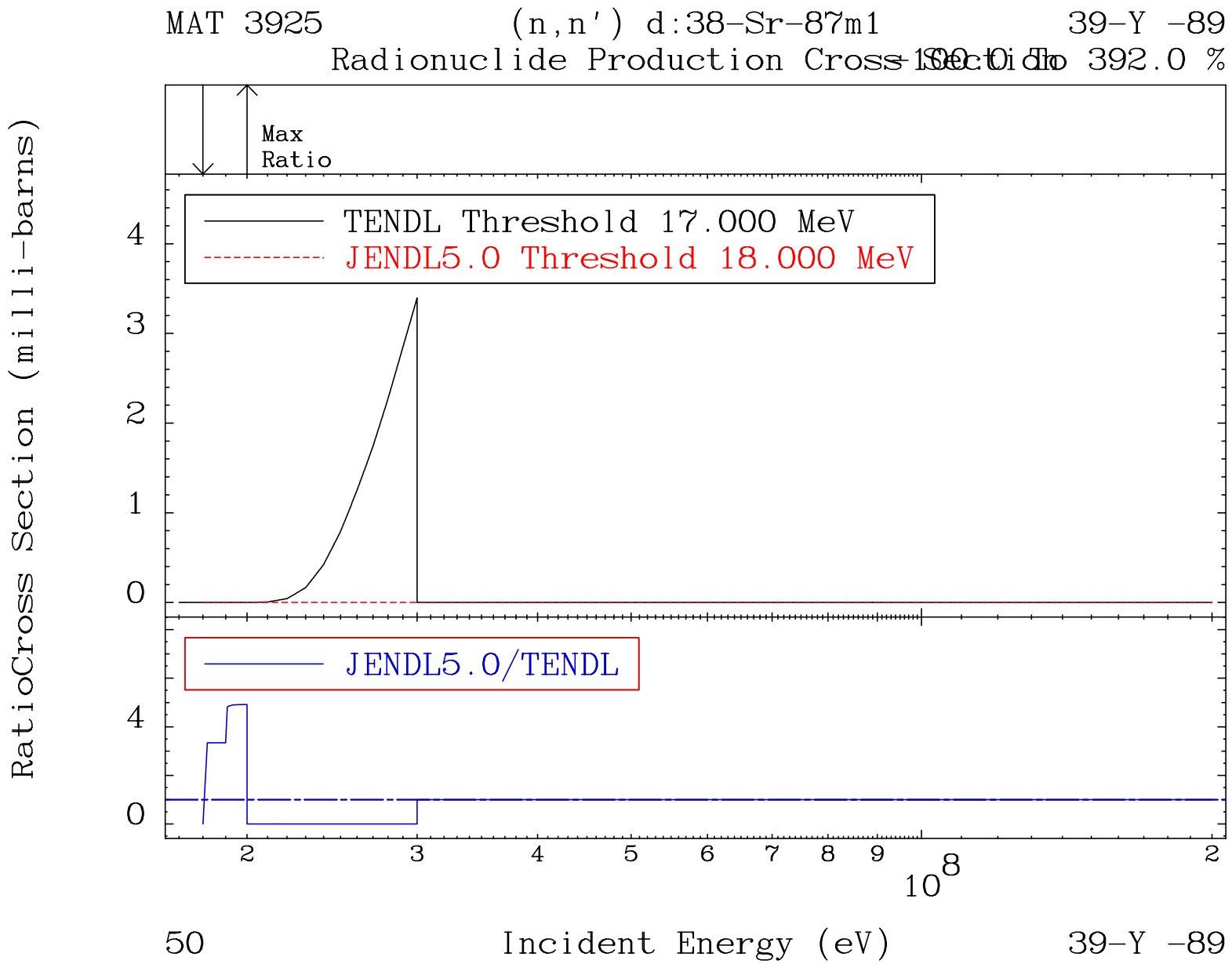

MAT 3925
Dpa elastic (mt2)
Cross Section
39-Y -89
-15.29 To 5.657 %
Max Ratio
Min Ratio
TENDL Threshold 531.25 eV
JENDL5.0 Threshold 531.25 eV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
45
39-Y -89

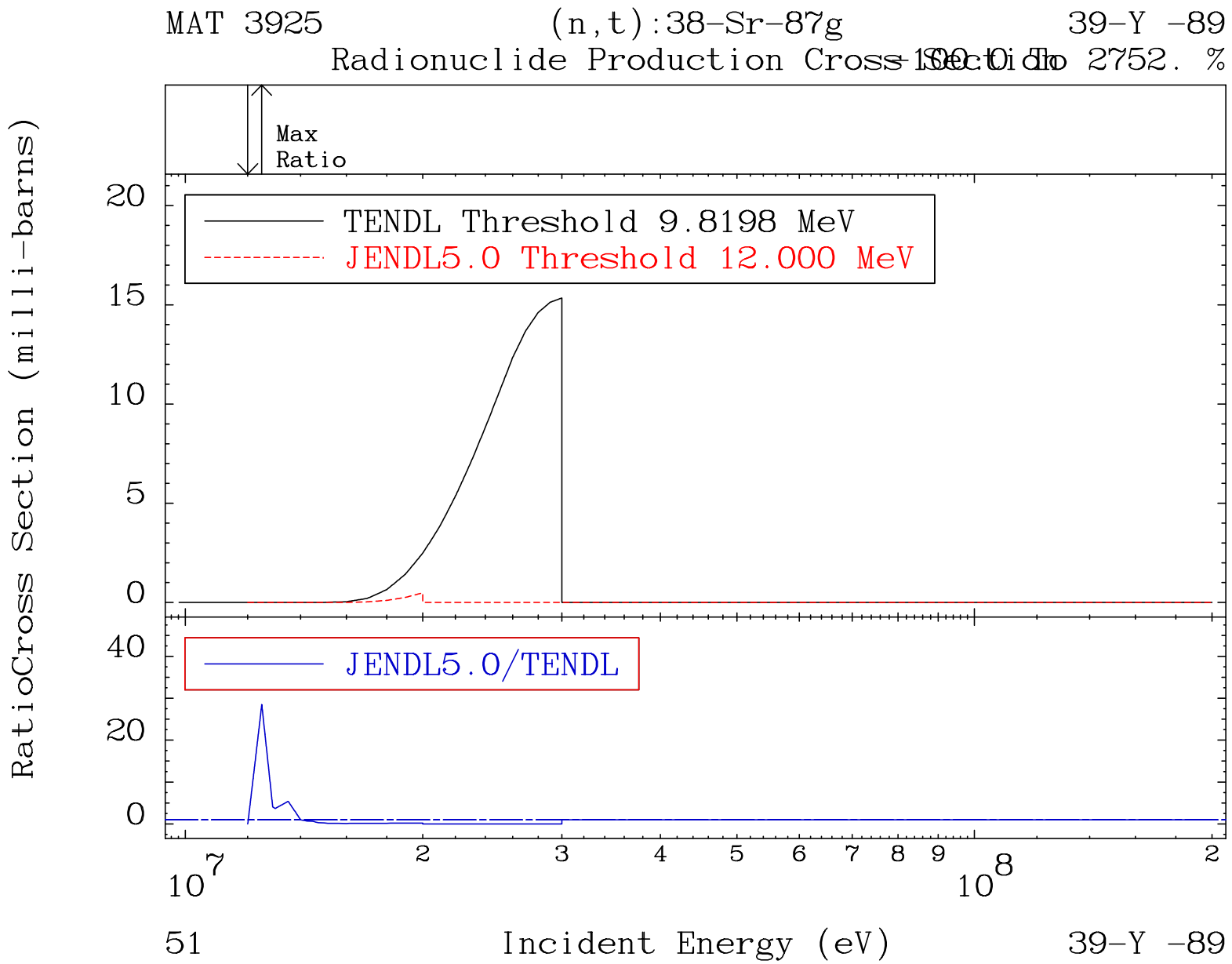

MAT 3925
Dpa inelastic (mt51-91)
39-Y -89
Cross Section -100.0 To 122.5 %
Max Ratio
Min Ratio
TENDL Threshold 919.28 keV
JENDL5.0 Threshold 919.28 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
46
39-Y -89

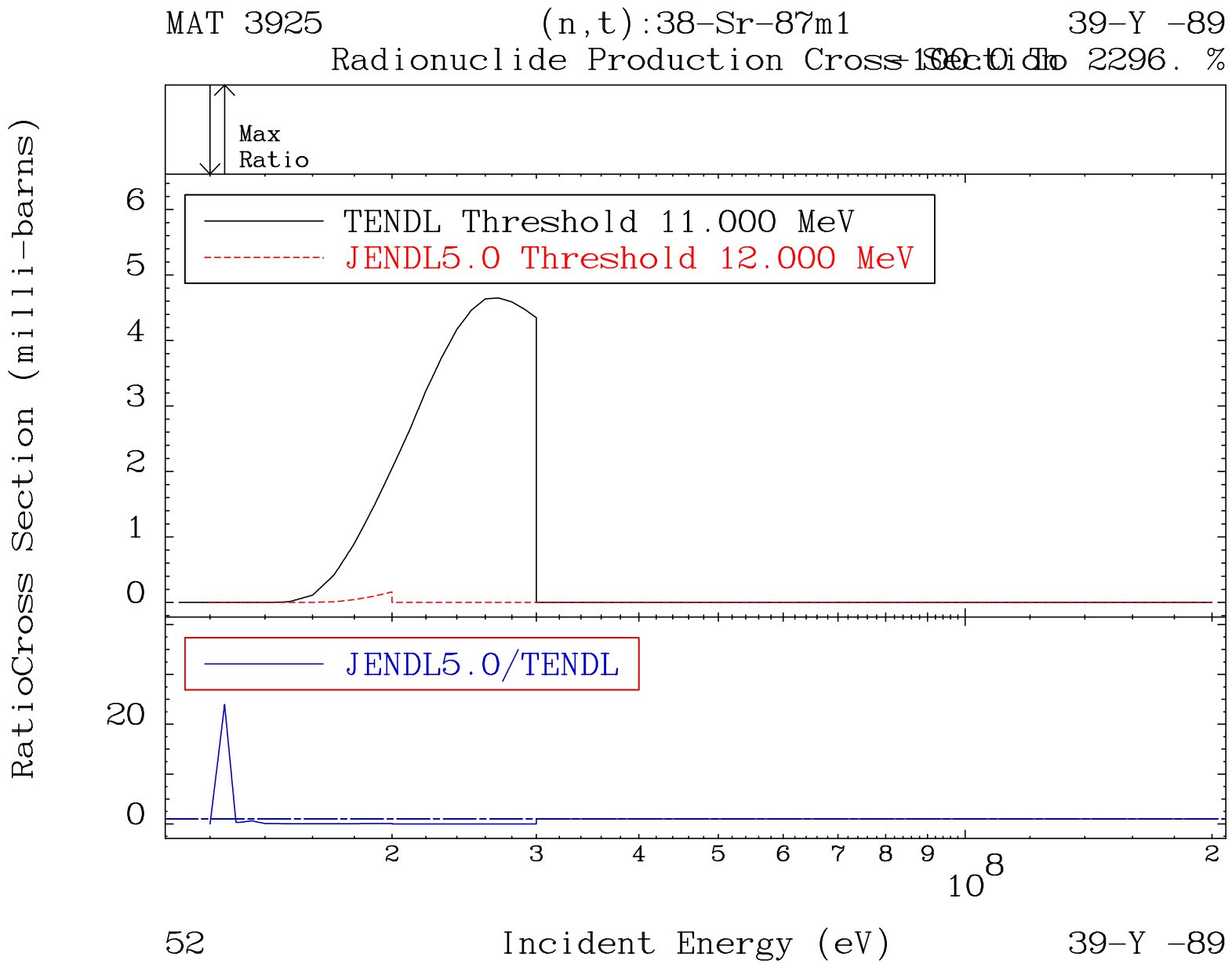

MAT 3925 Dpa disappearance (mt102 -120) 39-Y -89
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
47
39-Y -89


MAT 3925
Inelastic:39-Y -89m1
39-Y -89
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 919.28 keV
JENDL5.0 Threshold 919.28 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
48
39-Y -89


MAT 3925
(n,n') d:38-Sr-87g
39-Y -89
Radionuclide Production Cross Section To 469.7 %
Max
Ratio
TENDL Threshold 16.148 MeV
JENDL5.0 Threshold 18.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
20
15
10
5
0
8
4
0
2
3
4
5
6
7
8
9
2
10^8
49
Incident Energy (eV)
39-Y -89


MAT 3925
(n,n') d:38-Sr-87m1
39-Y -89
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 17.000 MeV
JENDL5.0 Threshold 18.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
50
39-Y -89


MAT 3925
(n,t):38-Sr-87g
39-Y -89
Radionuclide Production Cross Section To 2752. %
Max
Ratio
TENDL Threshold 9.8198 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
51
39-Y -89


MAT 3925
(n,t):38-Sr-87m1
39-Y -89
Radionuclide Production Cross Section To 2296. %
Max
Ratio
TENDL Threshold 11.000 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
52
39-Y -89