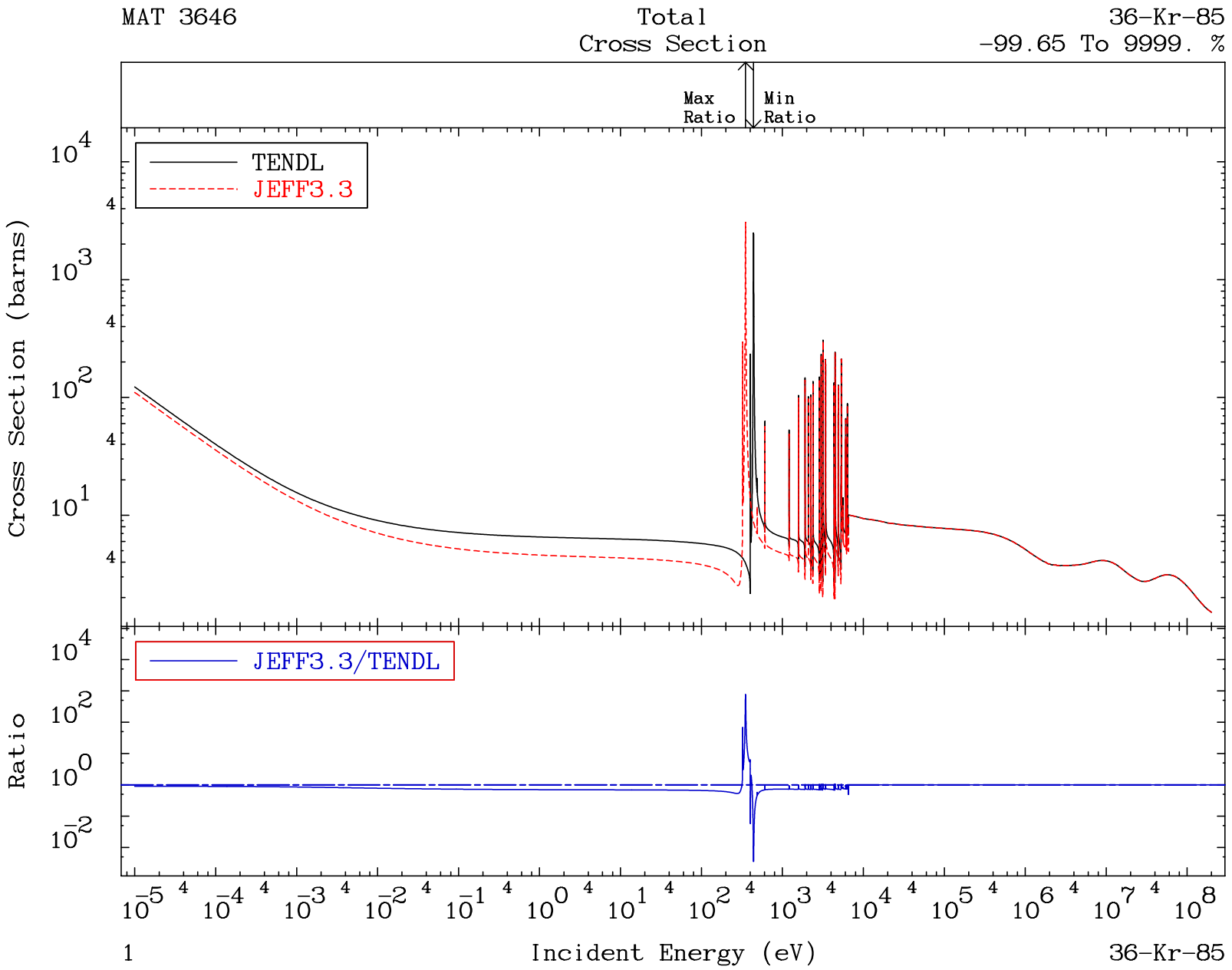
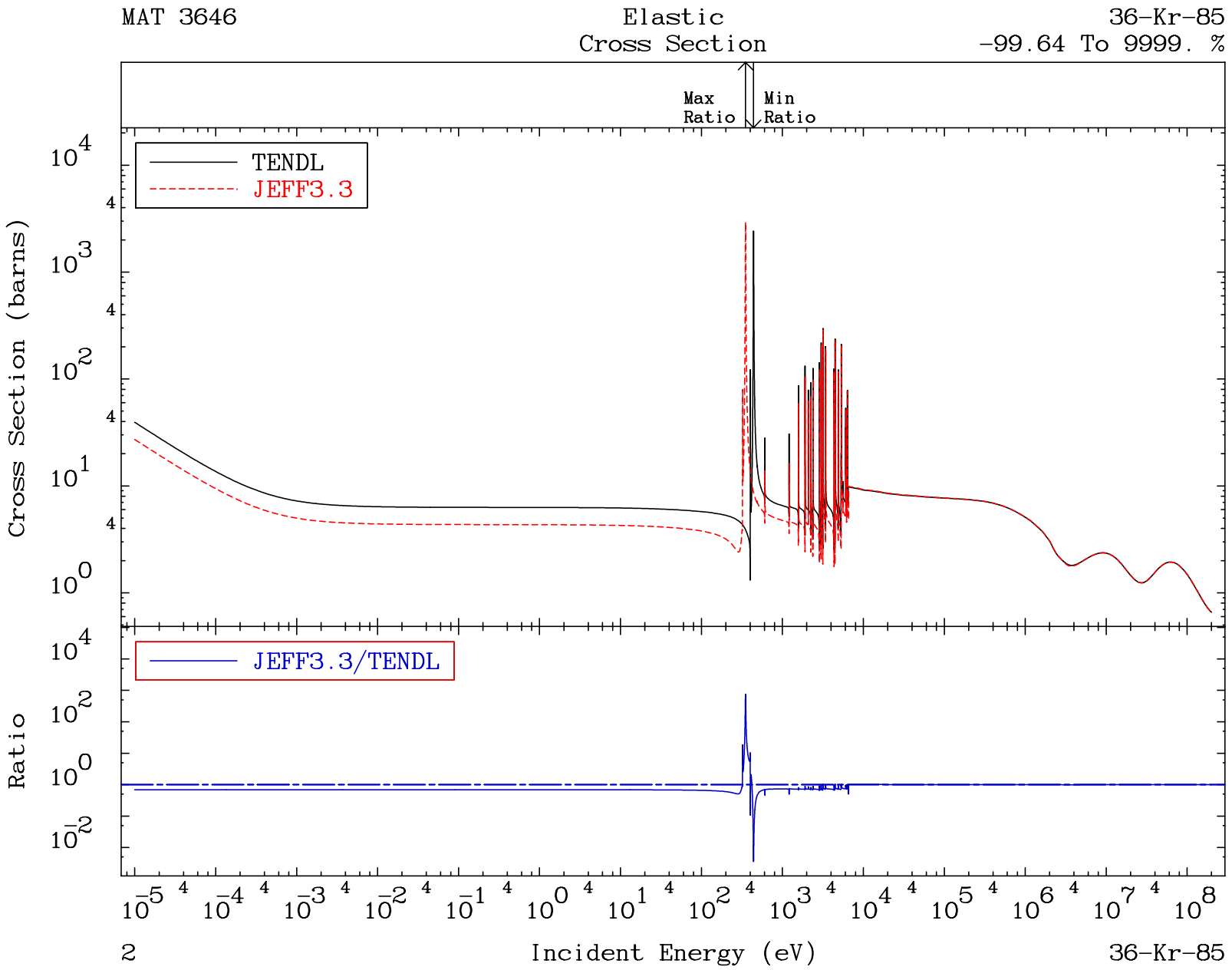
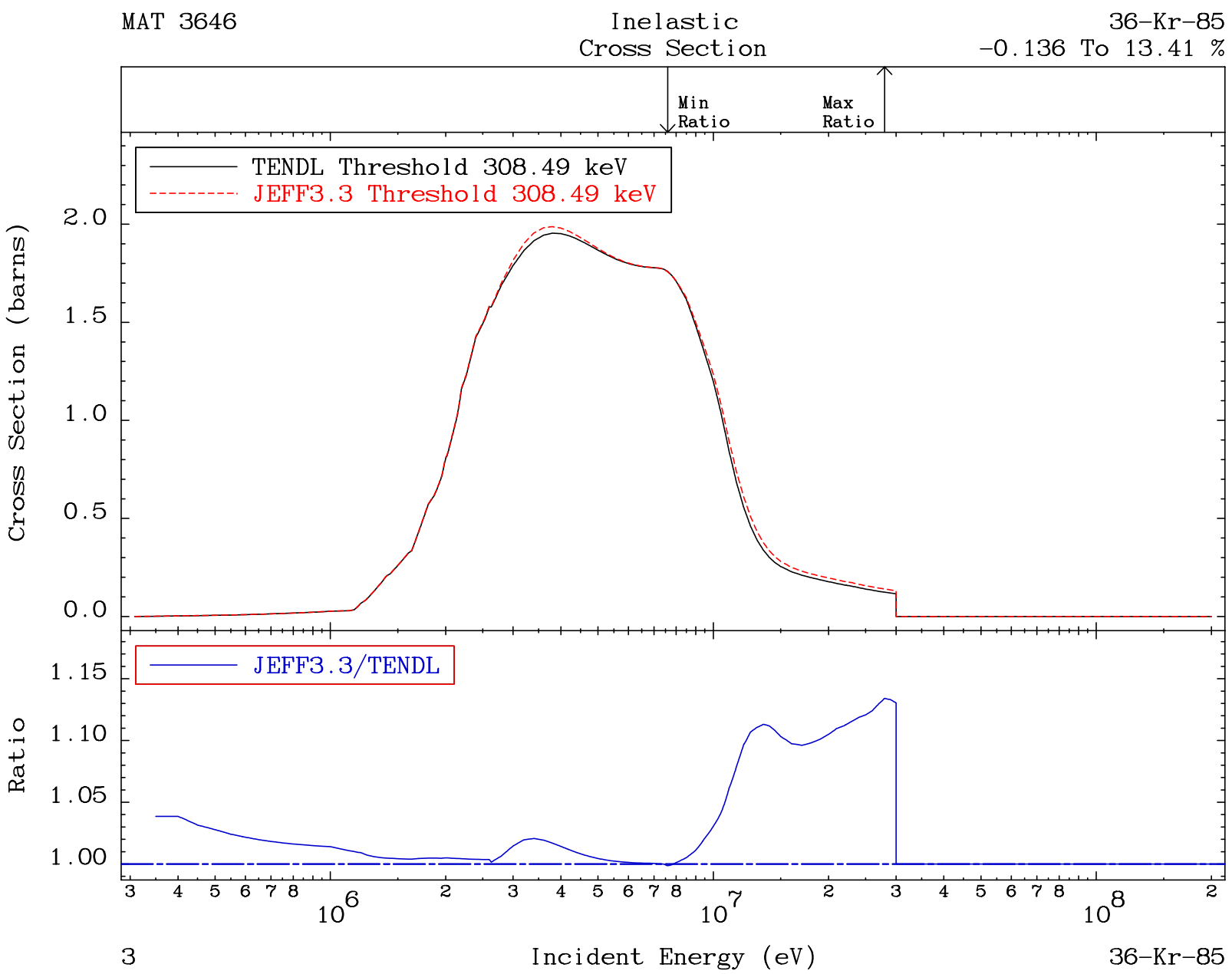
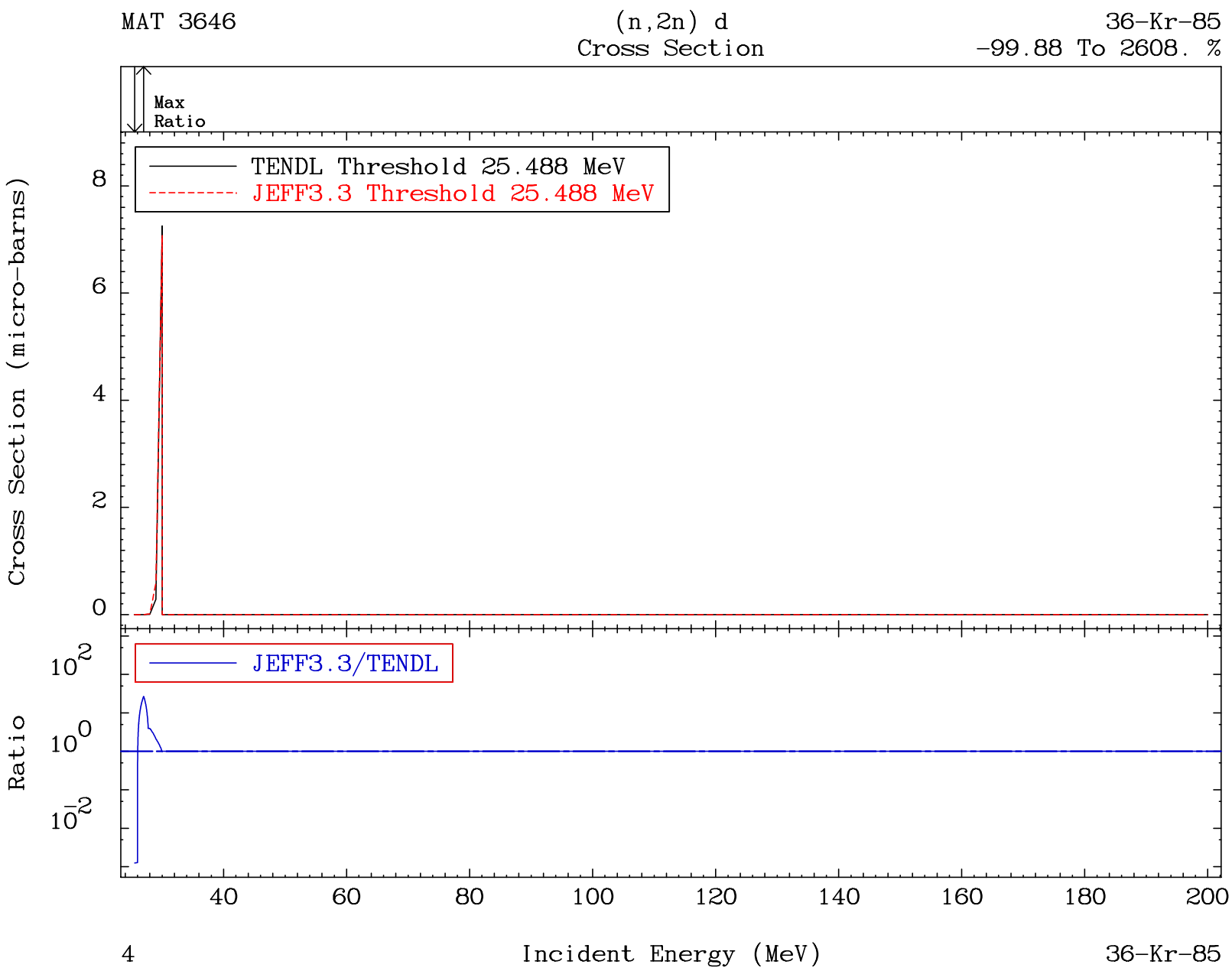
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

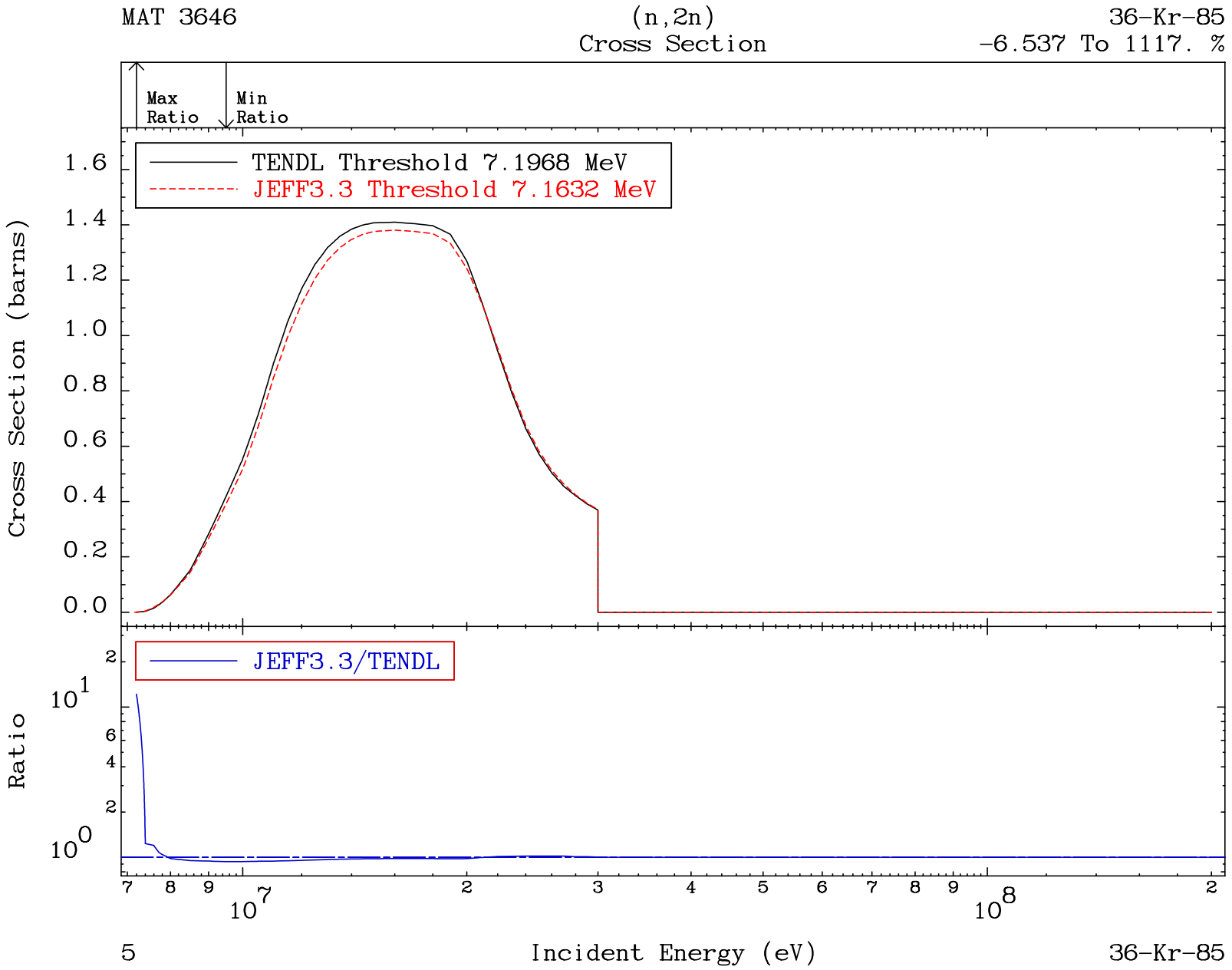
Press Mouse Button to Start

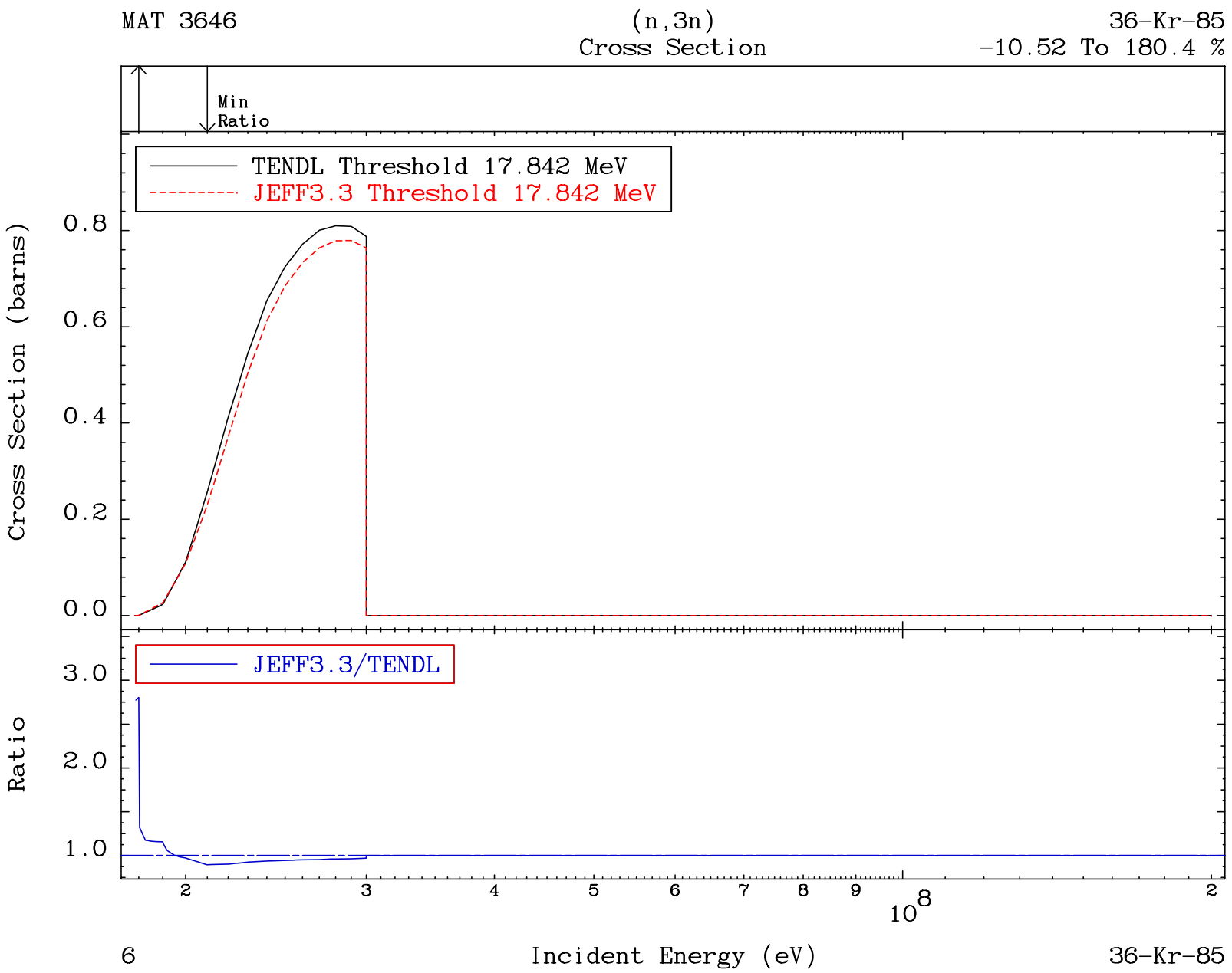

MAT 3646
Total
Cross Section
36-Kr-85
-99.65 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
36-Kr-85

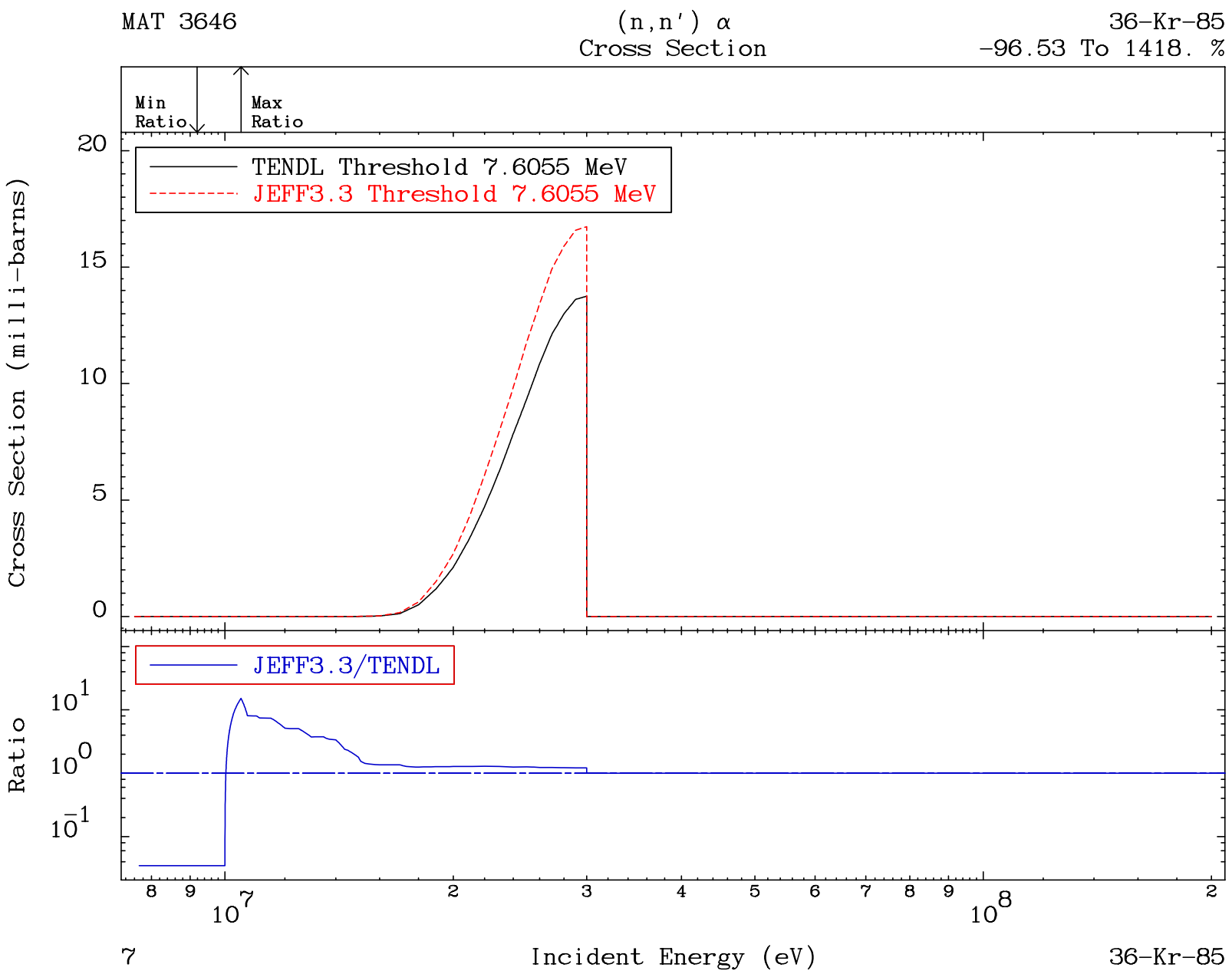

MAT 3646
Elastic
Cross Section
36-Kr-85
-99.64 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
36-Kr-85

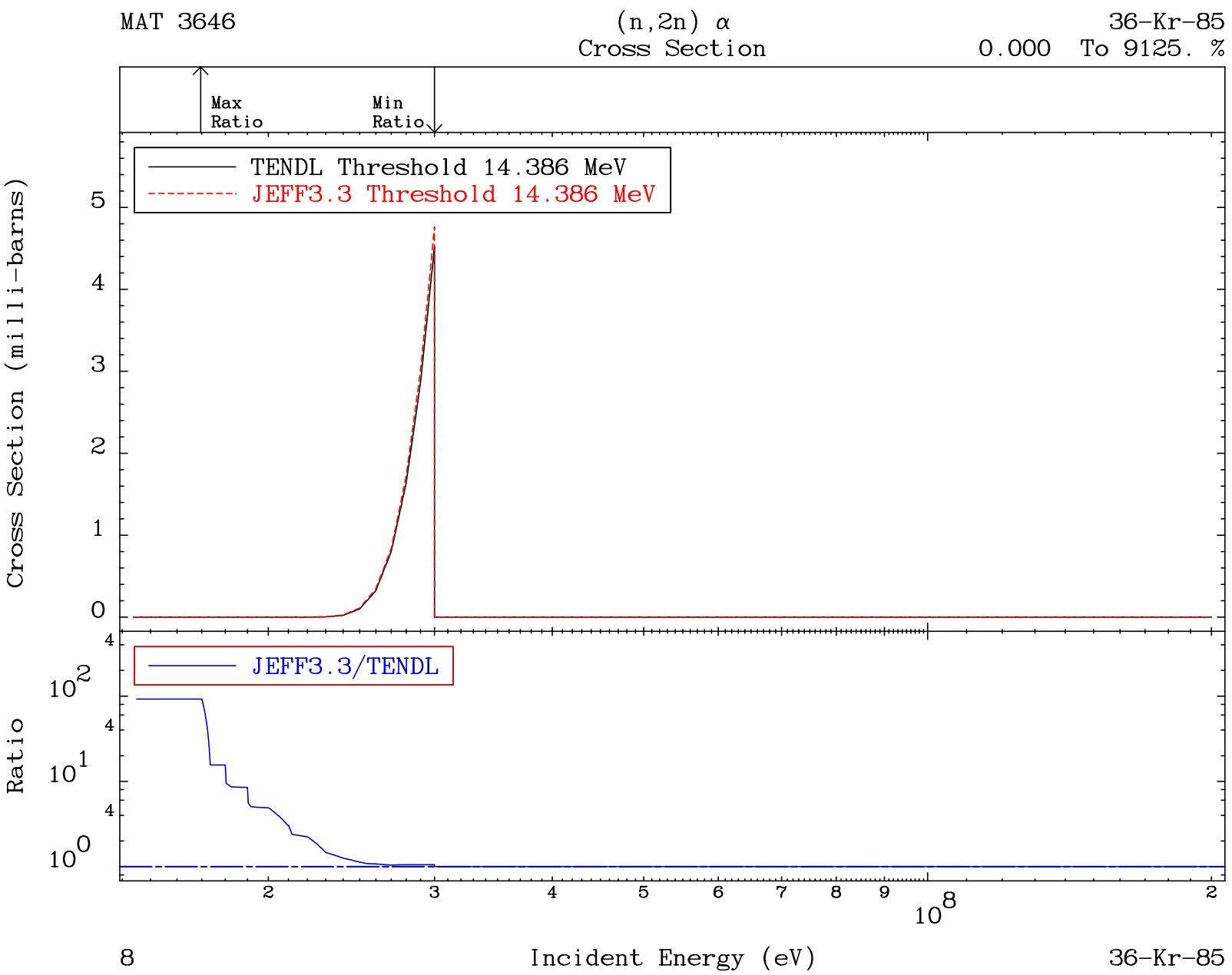

MAT 3646
Inelastic
Cross Section
36-Kr-85
-0.136 To 13.41 %
Min
Ratio
Max
Ratio
TENDL Threshold 308.49 keV
JEFF3.3 Threshold 308.49 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
3
Incident Energy (eV)
36-Kr-85

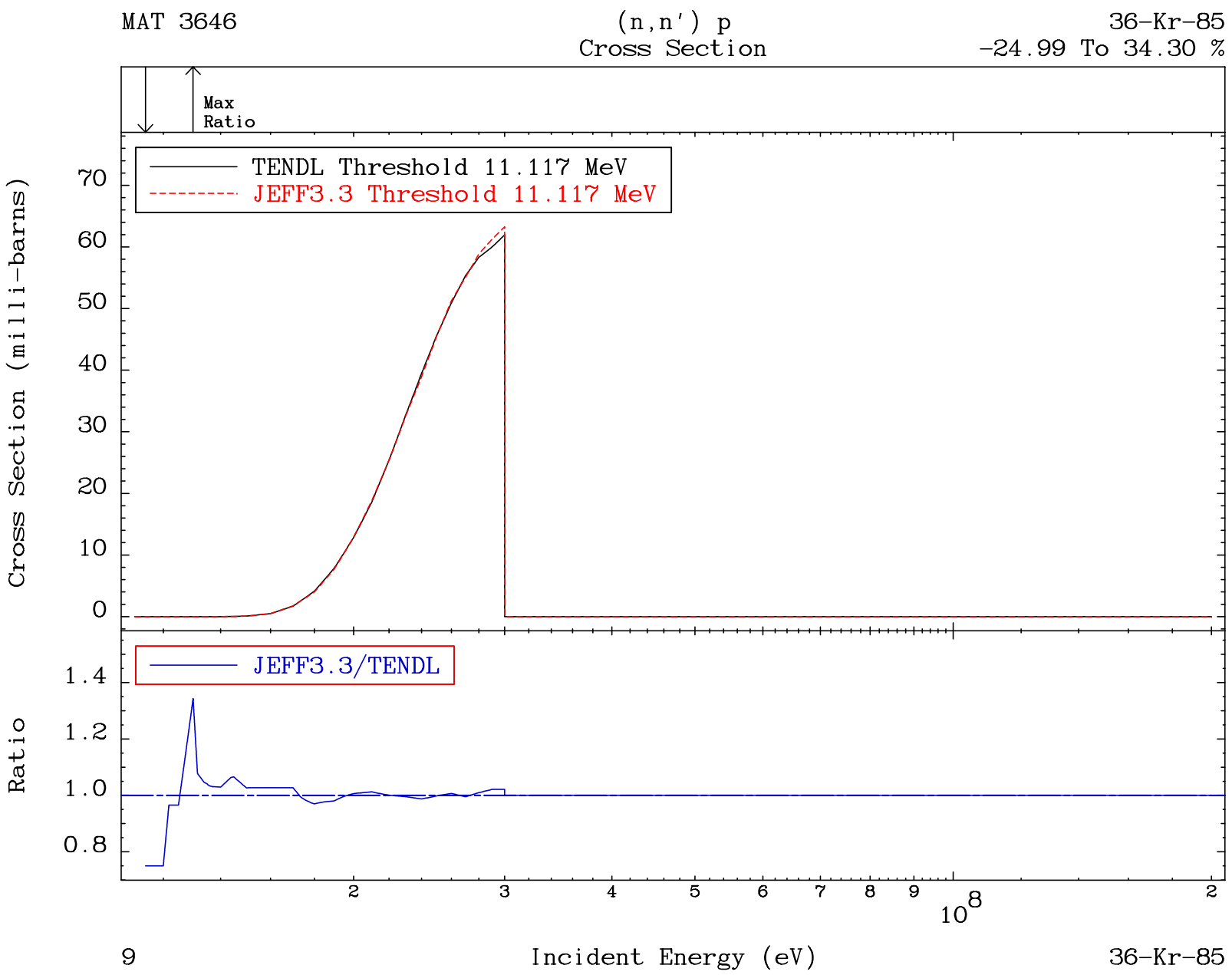

MAT 3646
(n,2n) d
Cross Section
36-Kr-85
-99.88 To 2608. %
Max
Ratio
TENDL Threshold 25.488 MeV
JEFF3.3 Threshold 25.488 MeV
Cross Section (micro-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
36-Kr-85

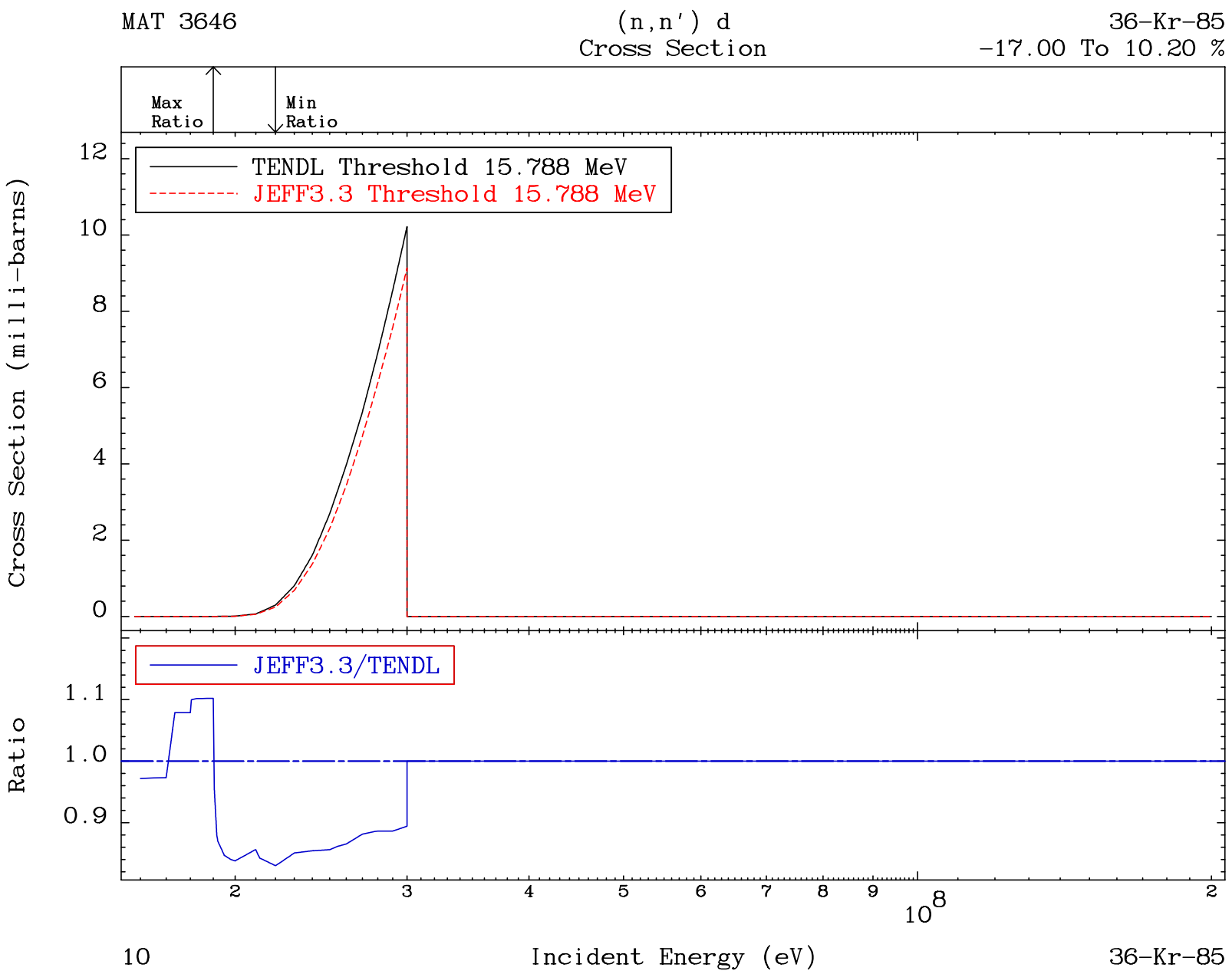

MAT 3646
(n,2n)
Cross Section
36-Kr-85
-6.537 To 1117. %
Max Ratio
Min Ratio
TENDL Threshold 7.1968 MeV
JEFF3.3 Threshold 7.1632 MeV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
5
Incident Energy (eV)
36-Kr-85

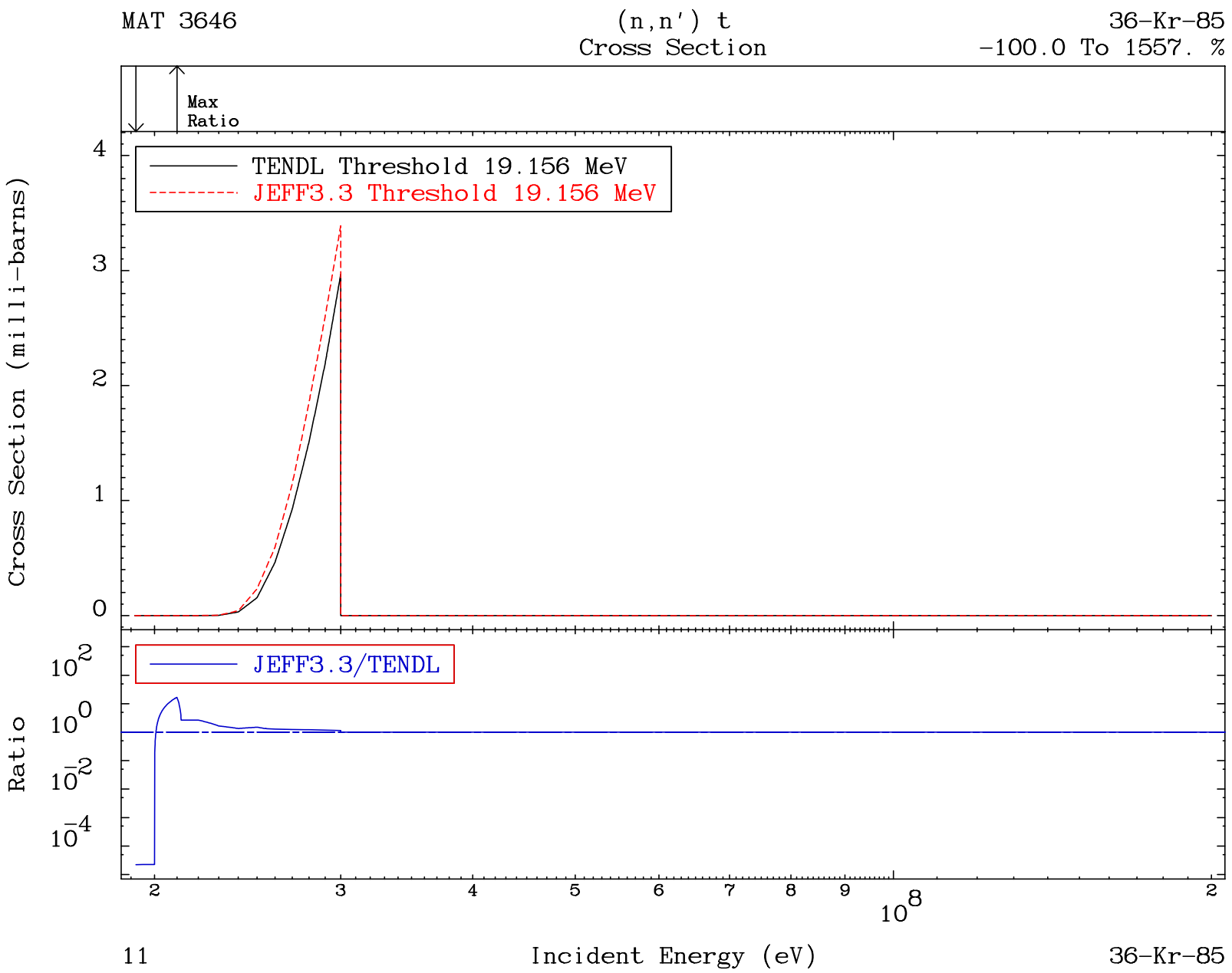

MAT 3646
(n,3n)
Cross Section
36-Kr-85
-10.52 To 180.4 %
Min
Ratio
TENDL Threshold 17.842 MeV
JEFF3.3 Threshold 17.842 MeV
Cross Section (barns)
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
36-Kr-85

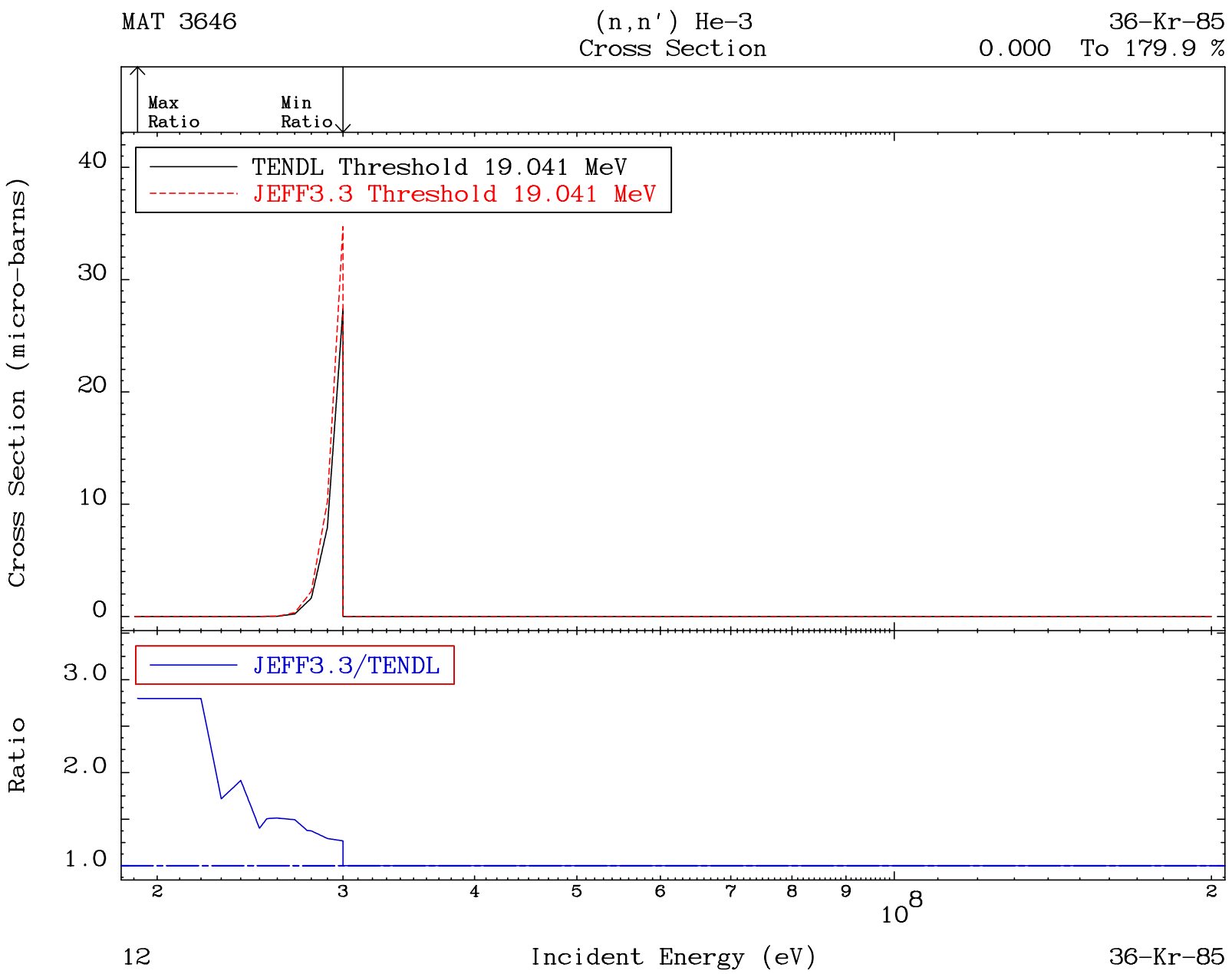

MAT 3646
(n,n') α
Cross Section
36-Kr-85
-96.53 To 1418. %
Min Ratio
Max Ratio
TENDL Threshold 7.6055 MeV
JEFF3.3 Threshold 7.6055 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
7
Incident Energy (eV)
36-Kr-85

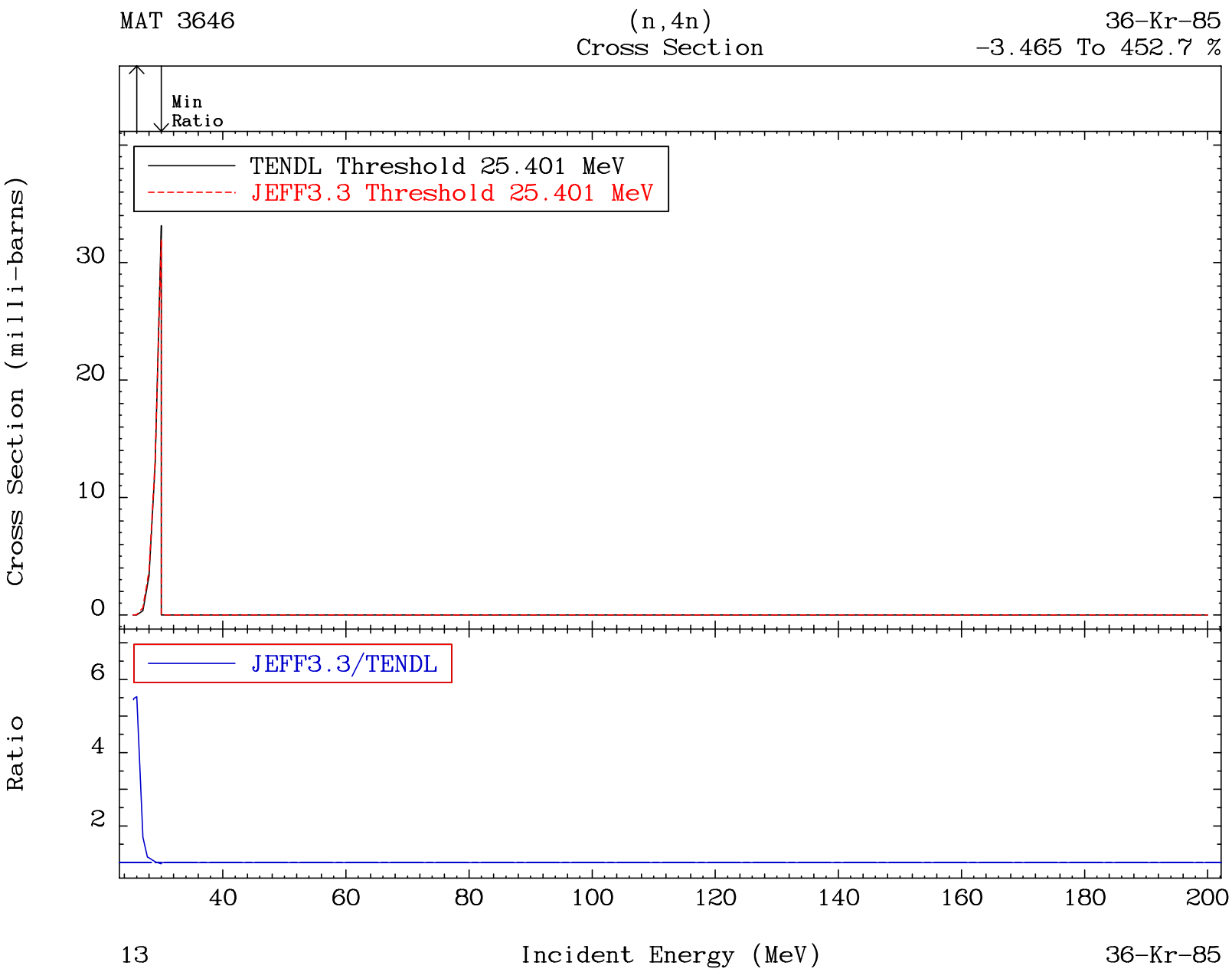

MAT 3646
(n,2n) α
Cross Section
36-Kr-85
0.000 To 9125. %
Max Ratio
Min Ratio
TENDL Threshold 14.386 MeV
JEFF3.3 Threshold 14.386 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
8
36-Kr-85

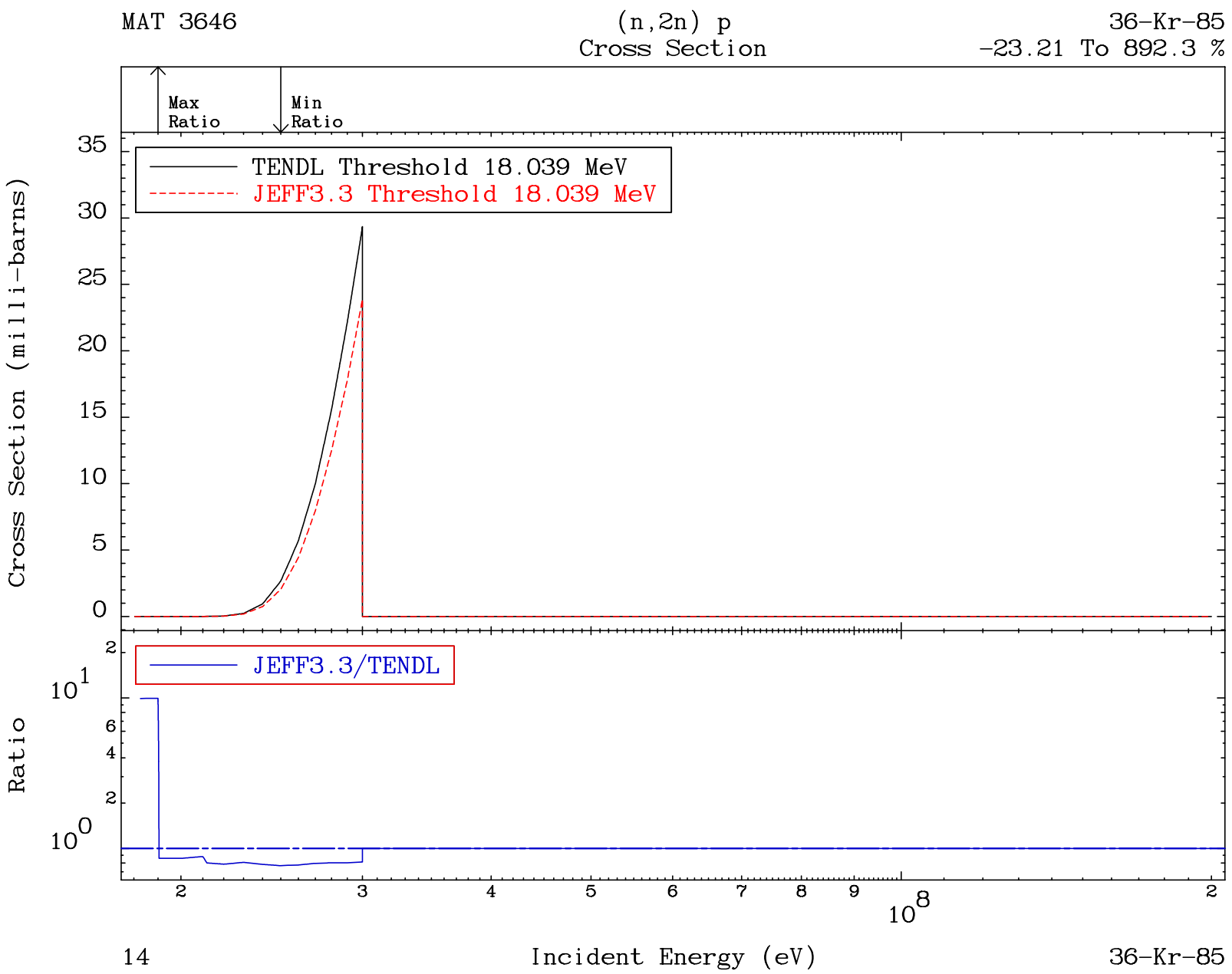

MAT 3646
(n,n') p
Cross Section
36-Kr-85
-24.99 To 34.30 %
Max
Ratio
TENDL Threshold 11.117 MeV
JEFF3.3 Threshold 11.117 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
36-Kr-85

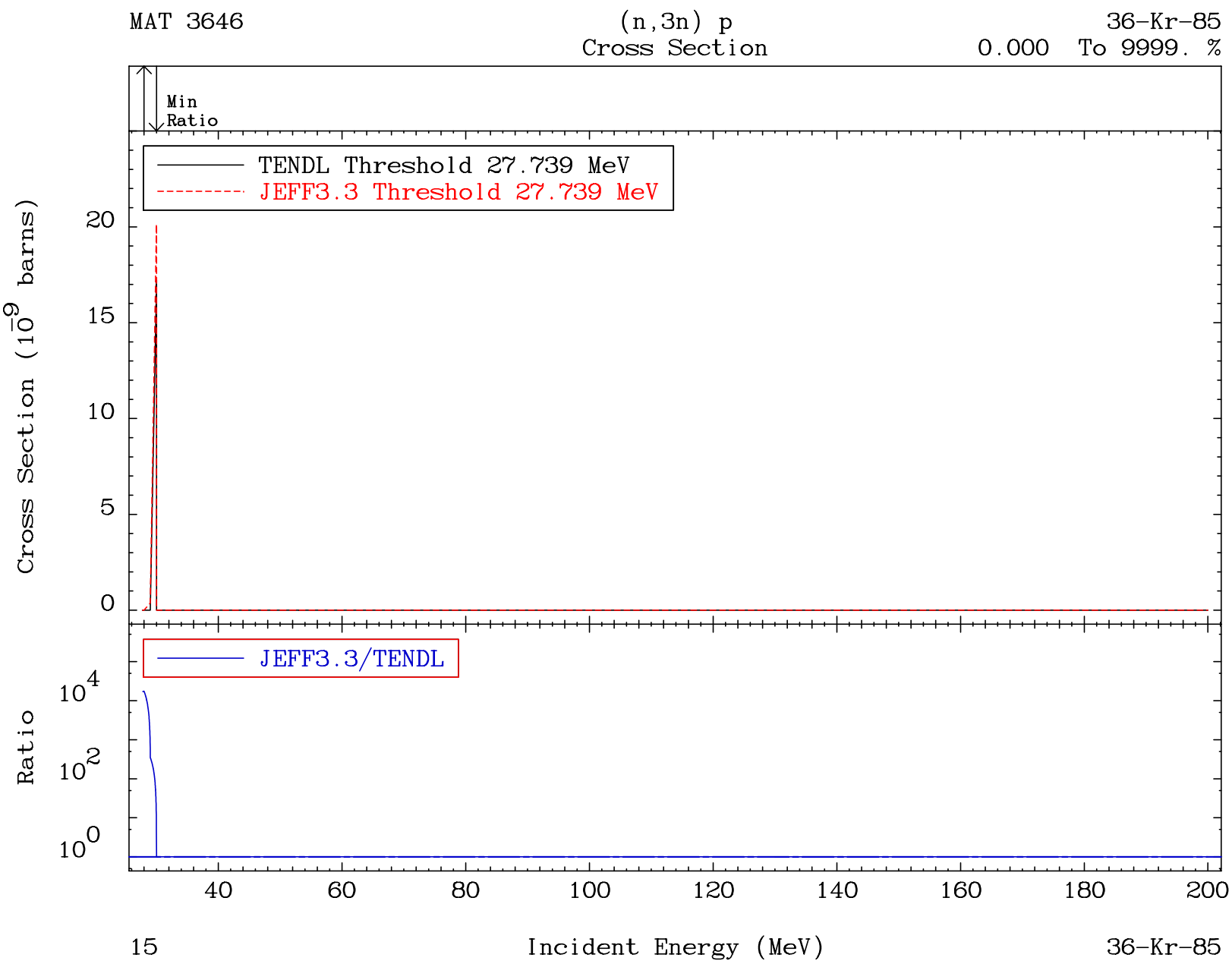

MAT 3646
(n,n') d
Cross Section
36-Kr-85
-17.00 To 10.20 %
Max Ratio
Min Ratio
TENDL Threshold 15.788 MeV
JEFF3.3 Threshold 15.788 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
36-Kr-85

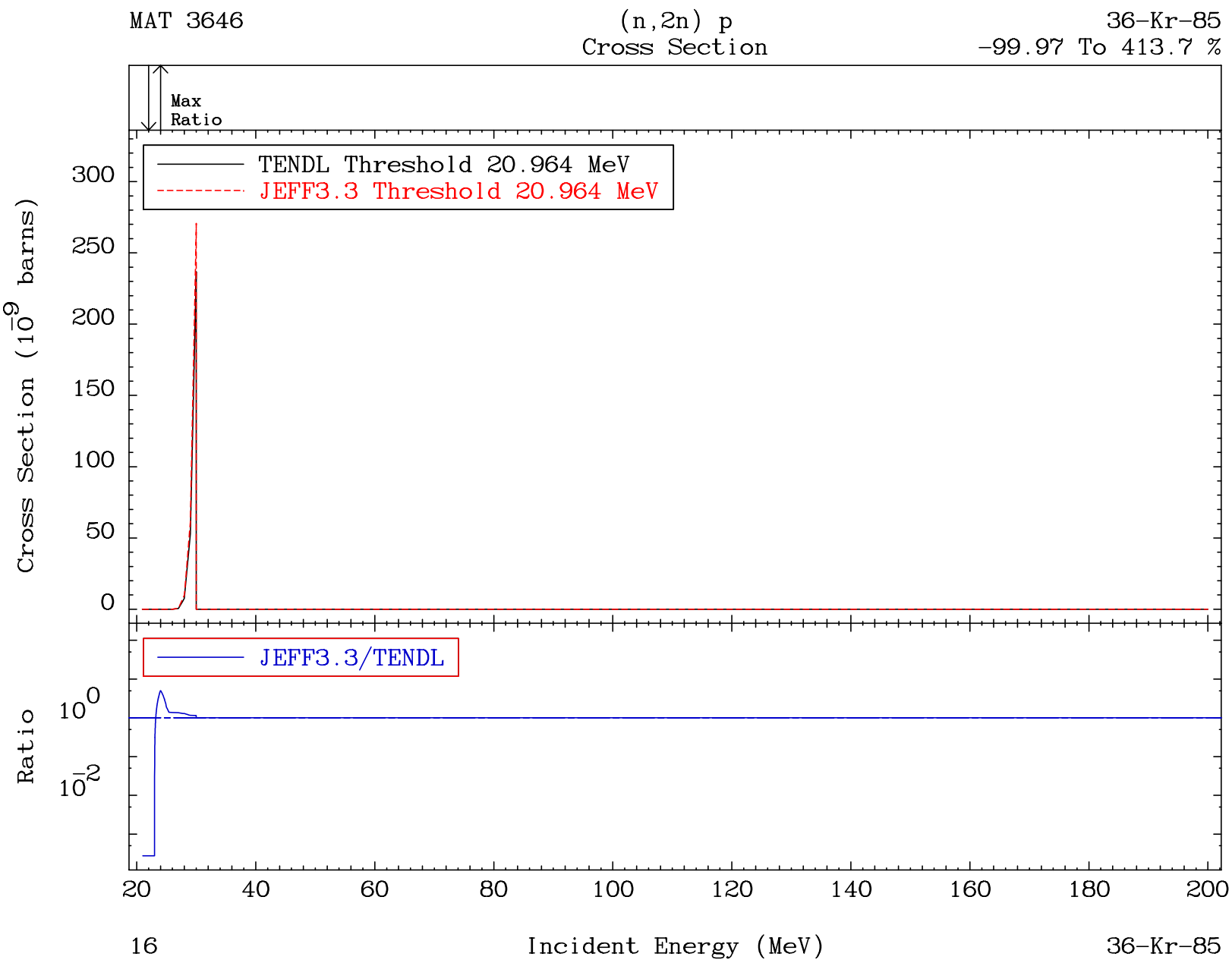

MAT 3646
(n,n') t
Cross Section
36-Kr-85
-100.0 To 1557. %
Max
Ratio
TENDL Threshold 19.156 MeV
JEFF3.3 Threshold 19.156 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
11
36-Kr-85

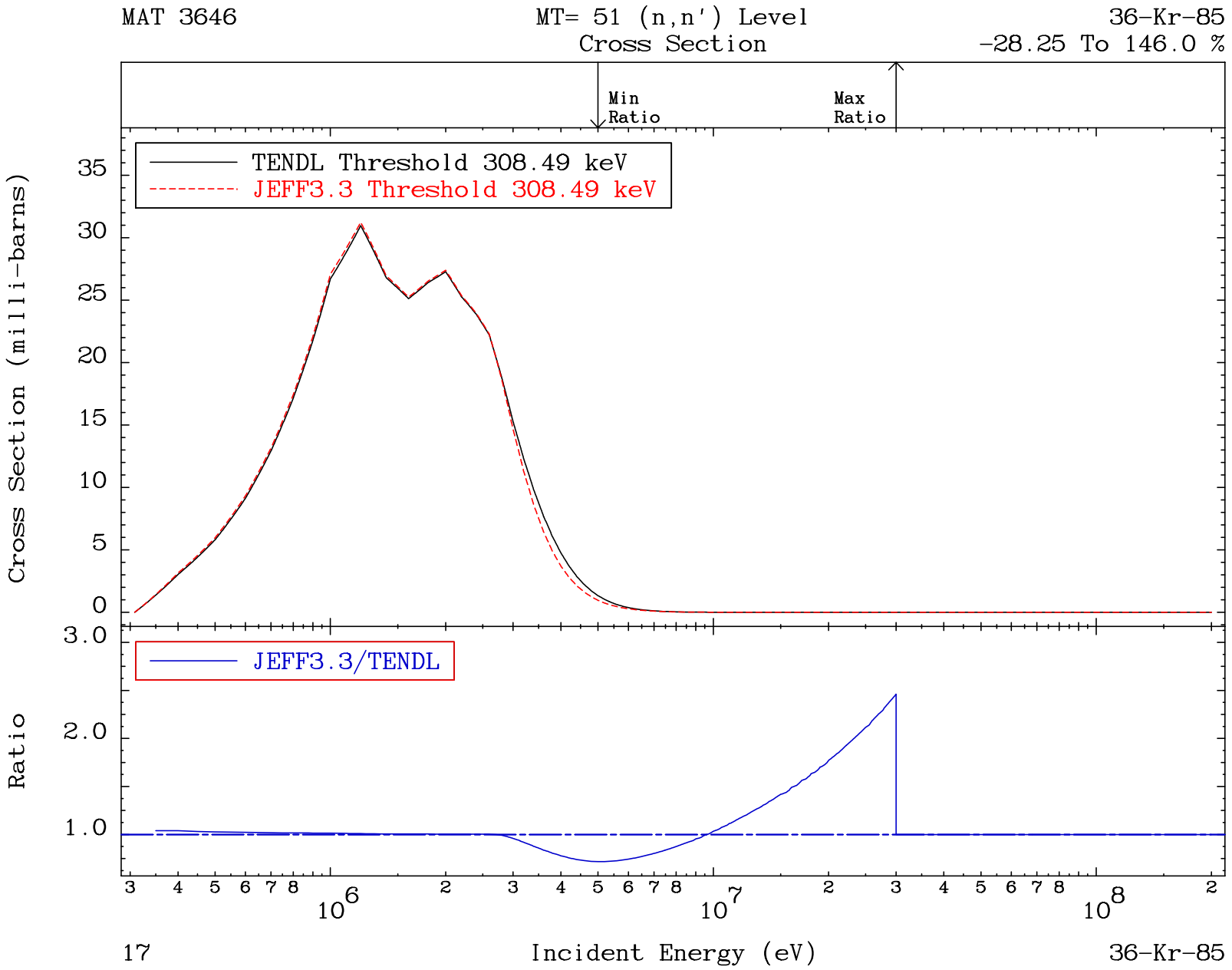

MAT 3646
(n,n') He-3
Cross Section
36-Kr-85
0.000 To 179.9 %
Max Ratio
Min Ratio
TENDL Threshold 19.041 MeV
JEFF3.3 Threshold 19.041 MeV
Cross Section (micro-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
36-Kr-85

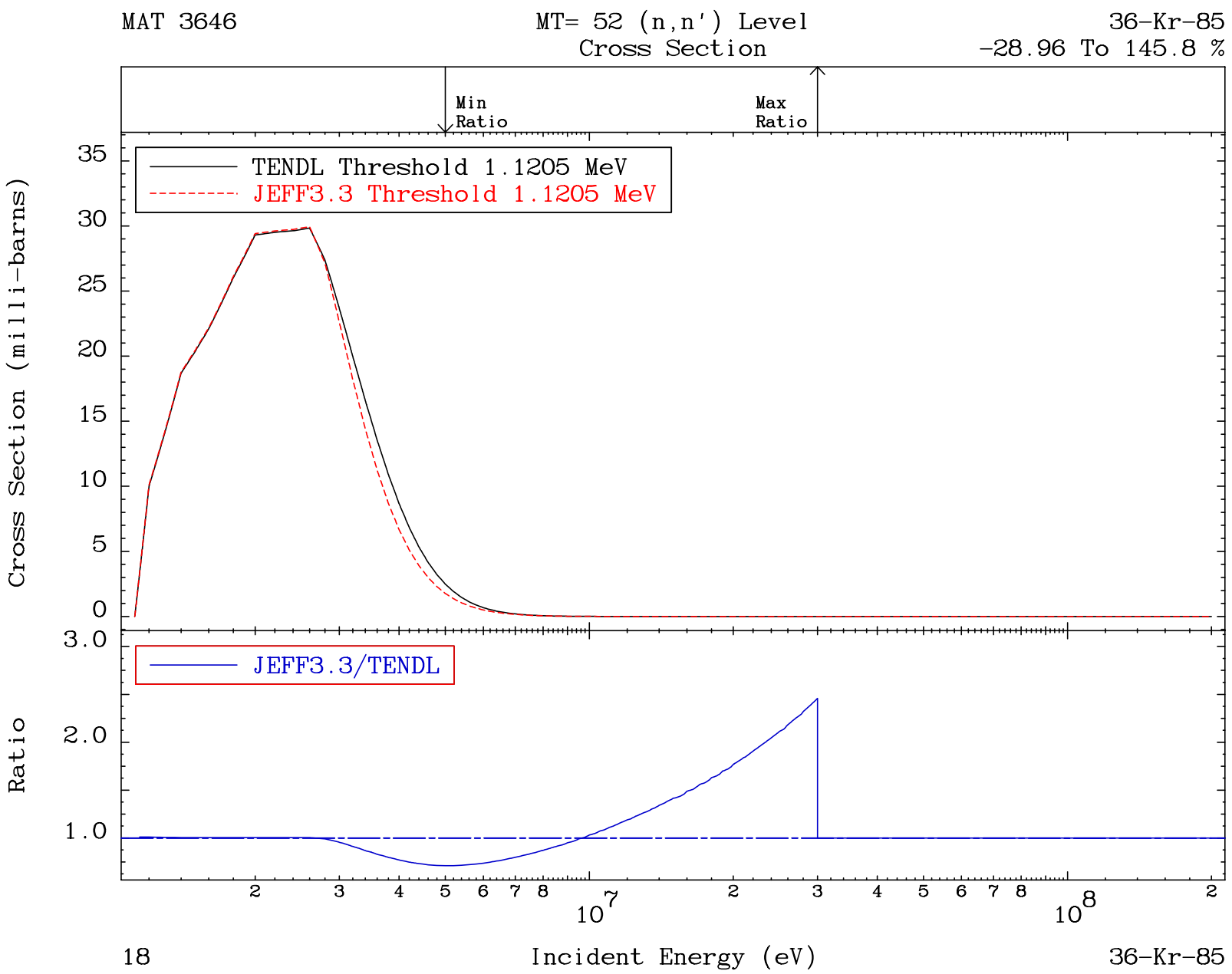

MAT 3646
(n,4n)
Cross Section
36-Kr-85
-3.465 To 452.7 %
Min
Ratio
TENDL Threshold 25.401 MeV
JEFF3.3 Threshold 25.401 MeV
Cross Section (milli-barns)
30
20
10
0
JEFF3.3/TENDL
Ratio
6
4
2
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
36-Kr-85

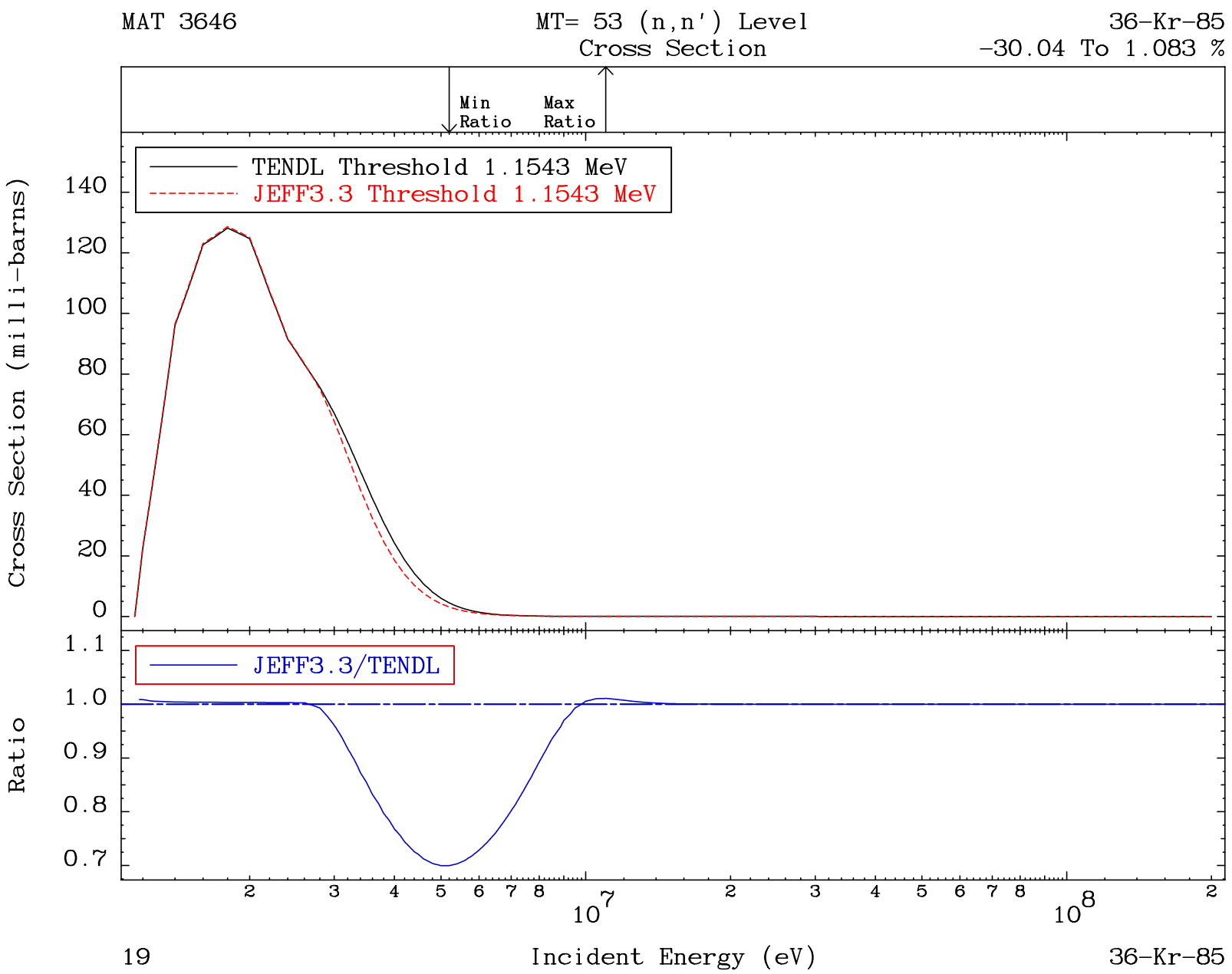

MAT 3646
(n,2n) p
Cross Section
36-Kr-85
-23.21 To 892.3 %
Max Ratio
Min Ratio
TENDL Threshold 18.039 MeV
JEFF3.3 Threshold 18.039 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
14
36-Kr-85

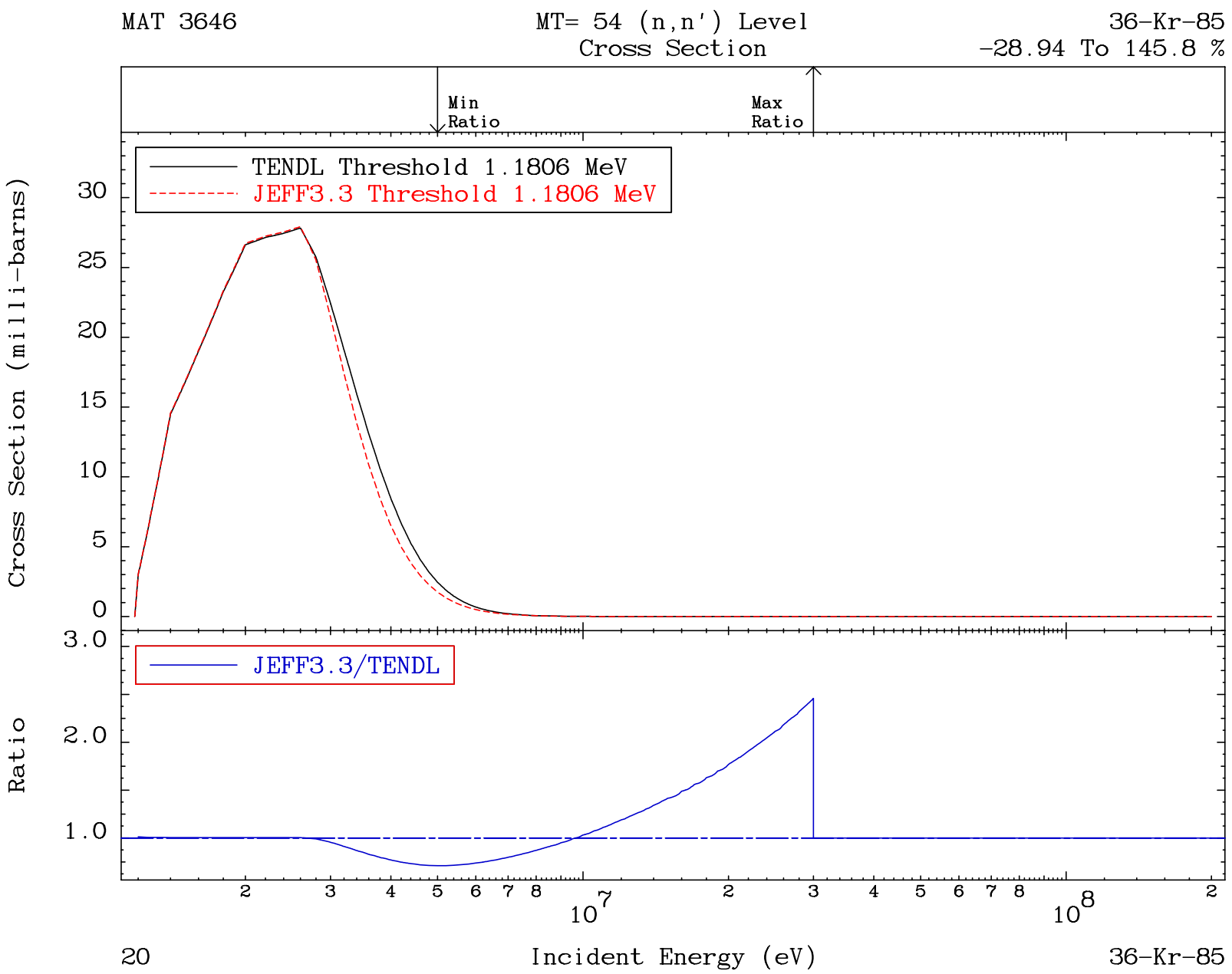

MAT 3646
(n,3n) p
Cross Section
36-Kr-85
0.000 To 9999. %
Min
Ratio
TENDL Threshold 27.739 MeV
JEFF3.3 Threshold 27.739 MeV
Cross Section (10^{-9} barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
10^{4}
10^{2}
10^{0}
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
36-Kr-85

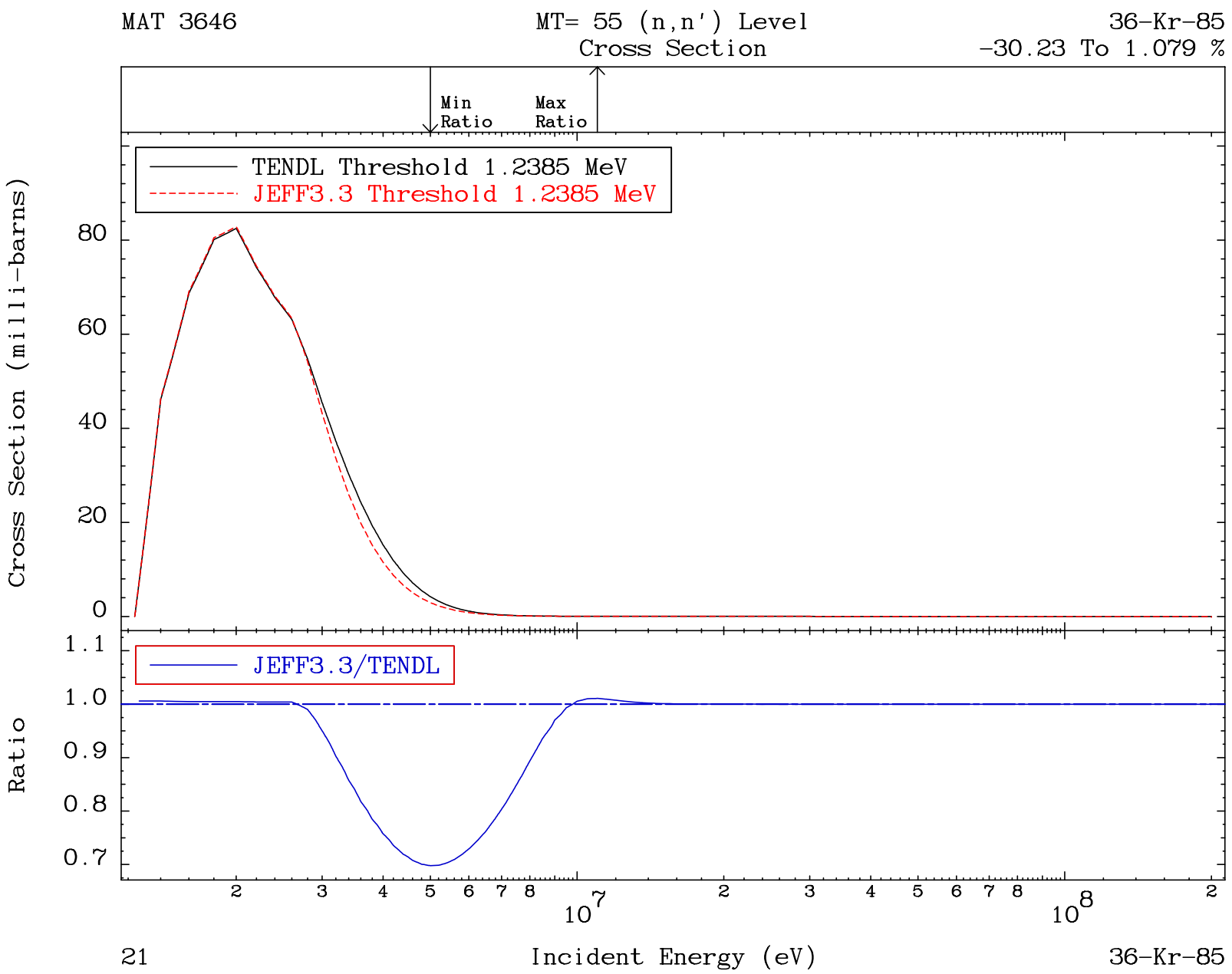

MAT 3646
(n,2n) p
Cross Section
36-Kr-85
-99.97 To 413.7 %
Max
Ratio
TENDL Threshold 20.964 MeV
JEFF3.3 Threshold 20.964 MeV
Cross Section (10^{-9} barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^{0}
10^{-2}
20
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
36-Kr-85

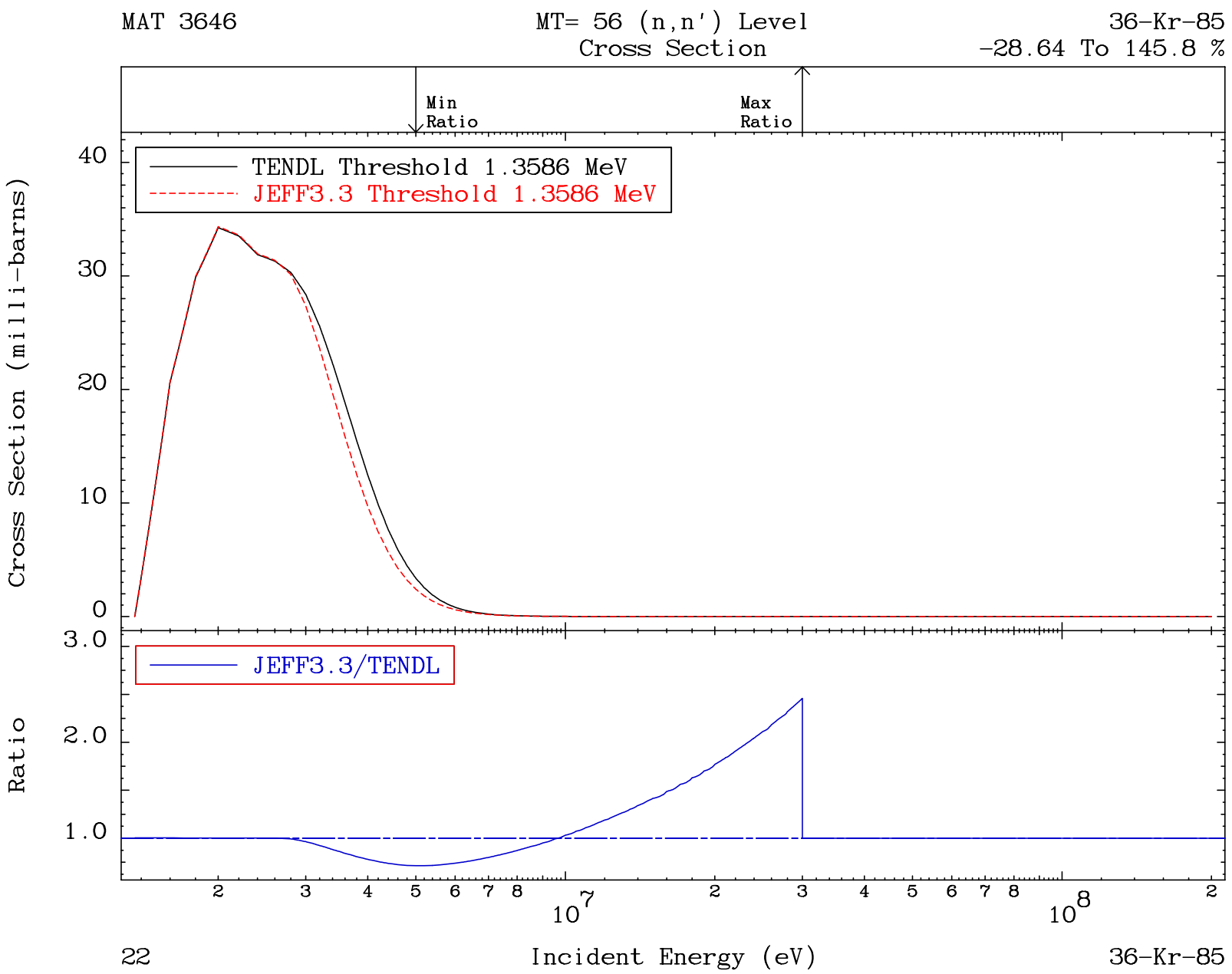

MAT 3646
MT= 51 (n,n') Level
Cross Section
36-Kr-85
-28.25 To 146.0 %
Min
Ratio
Max
Ratio
TENDL Threshold 308.49 keV
JEFF3.3 Threshold 308.49 keV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
3 4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
36-Kr-85

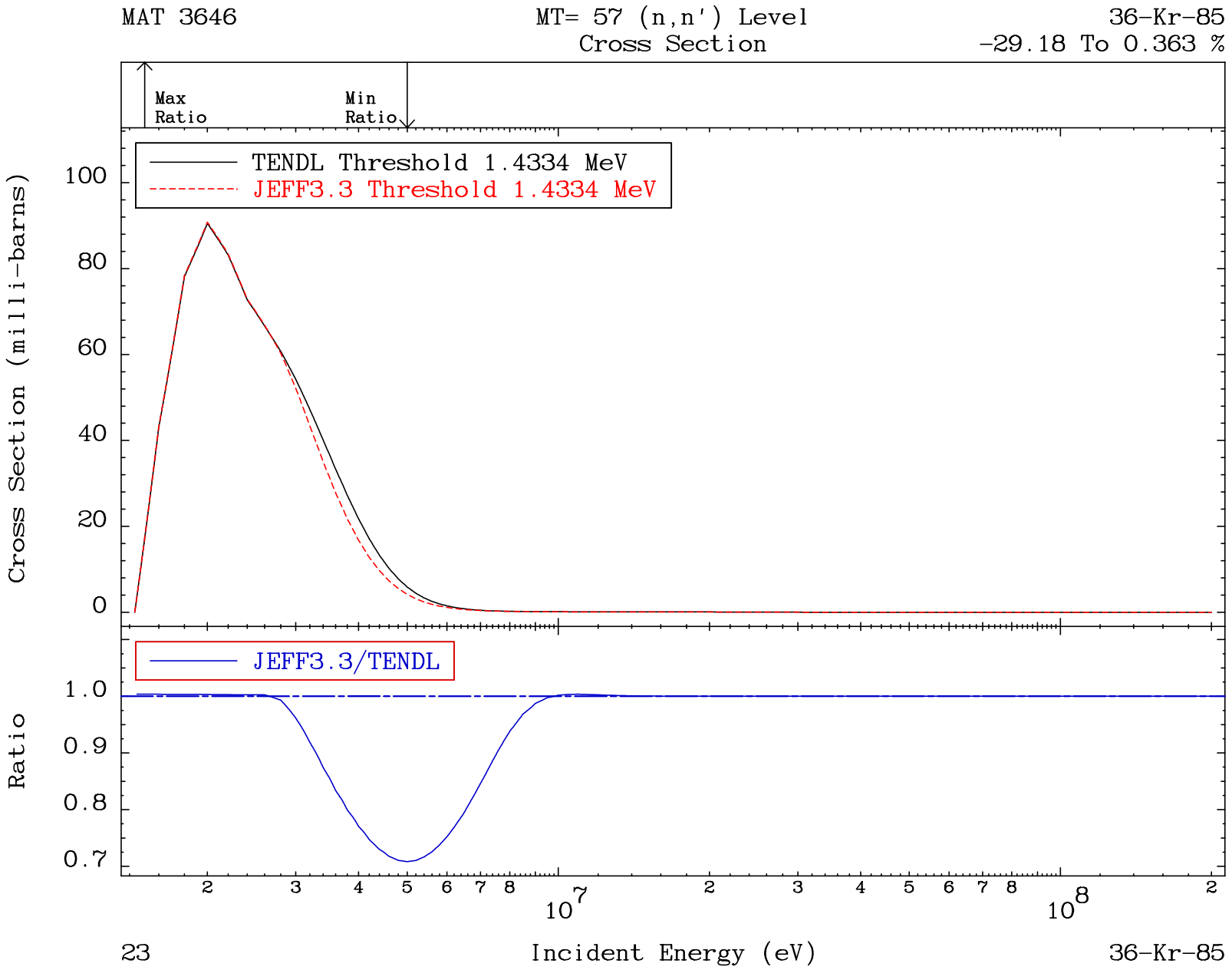

MAT 3646
MT= 52 (n,n') Level
Cross Section
36-Kr-85
-28.96 To 145.8 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1205 MeV
JEFF3.3 Threshold 1.1205 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
3.0
2.0
1.0
Ratio
JEFF3.3/TENDL
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
18
Incident Energy (eV)
36-Kr-85

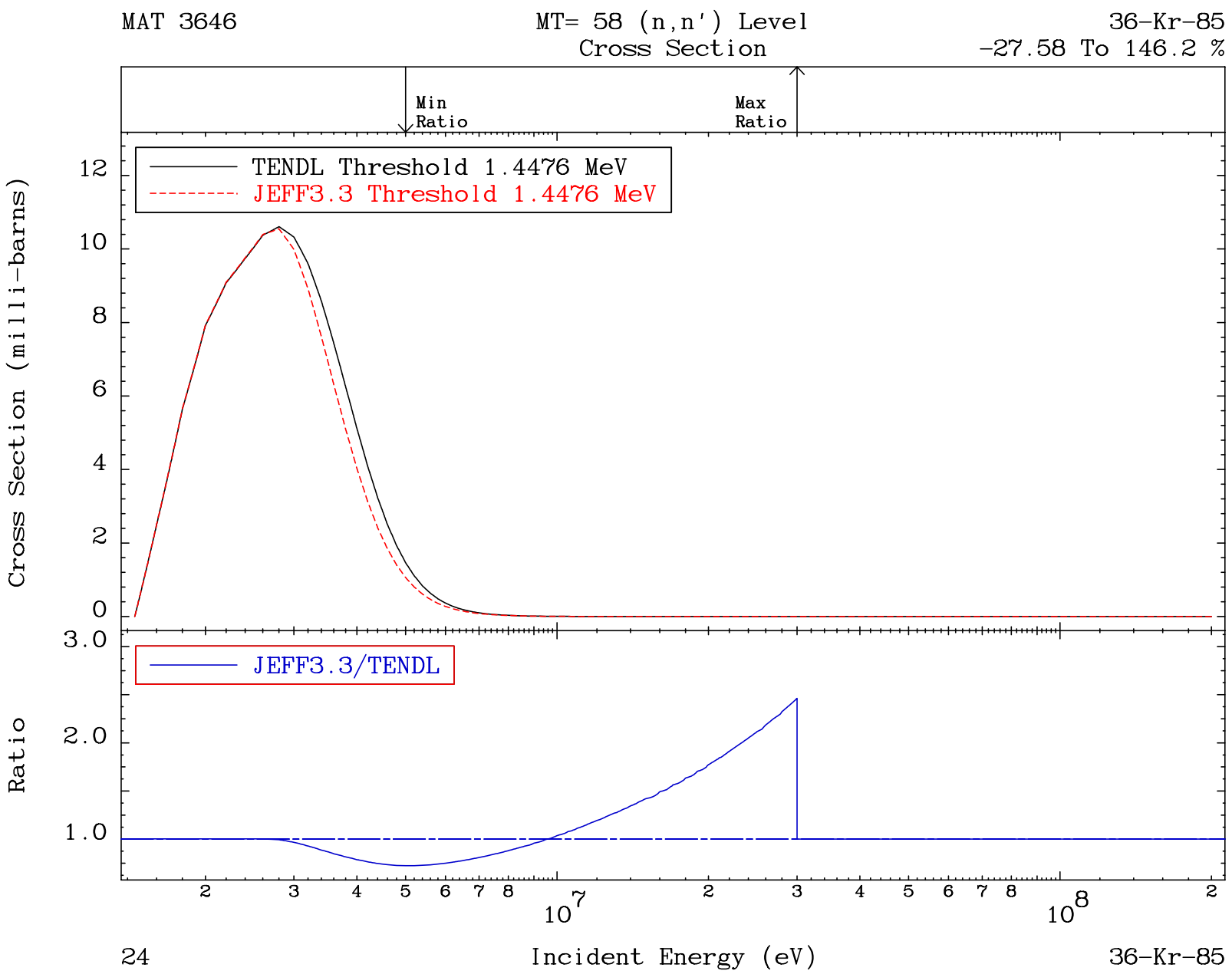

MAT 3646
MT= 53 (n,n') Level
Cross Section
36-Kr-85
-30.04 To 1.083 %
Min Ratio
Max Ratio
TENDL Threshold 1.1543 MeV
JEFF3.3 Threshold 1.1543 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
0.7
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
36-Kr-85

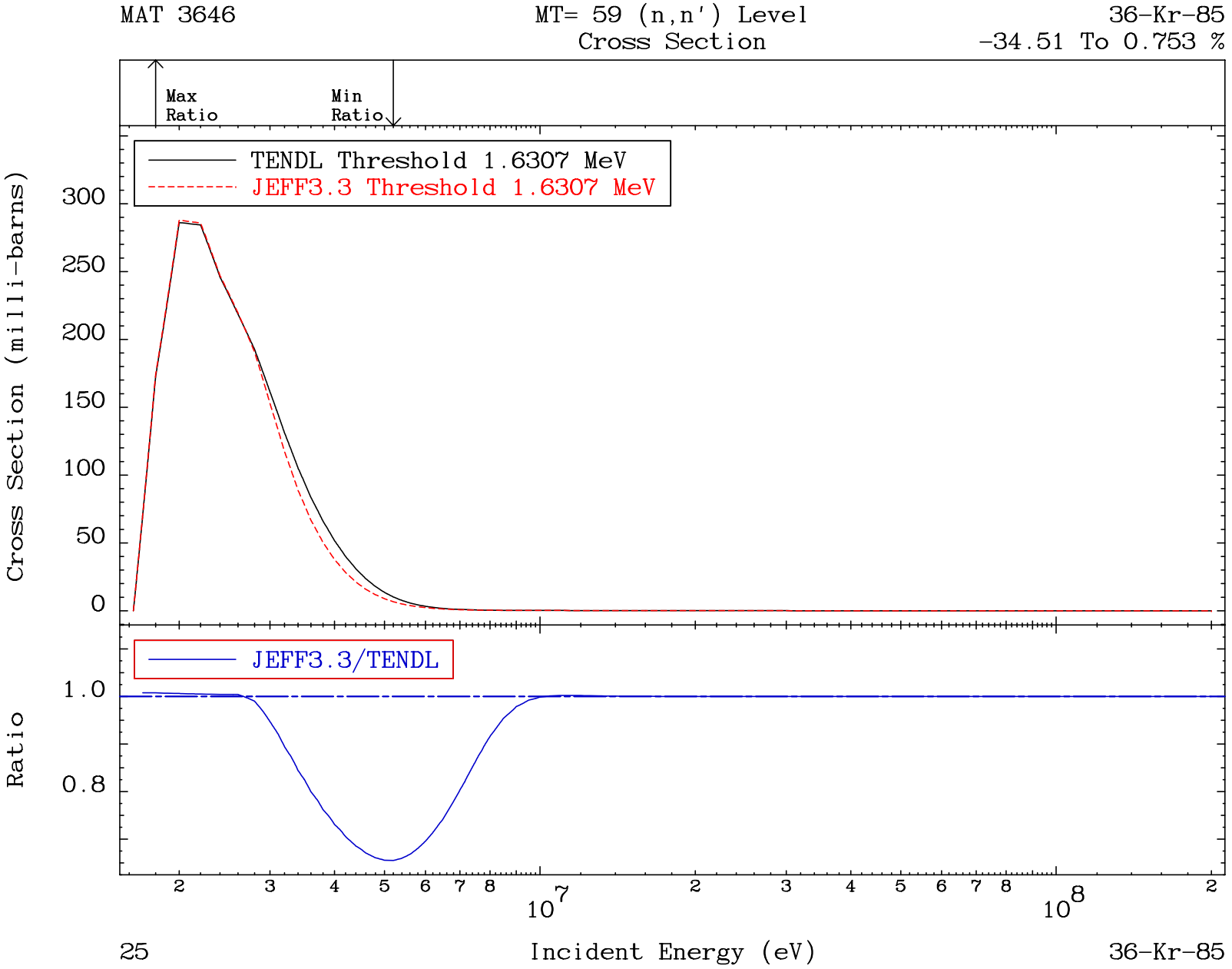

MAT 3646
MT= 54 (n,n') Level
Cross Section
36-Kr-85
-28.94 To 145.8 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.1806 MeV
JEFF3.3 Threshold 1.1806 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
10^7
10^8
20
Incident Energy (eV)
36-Kr-85

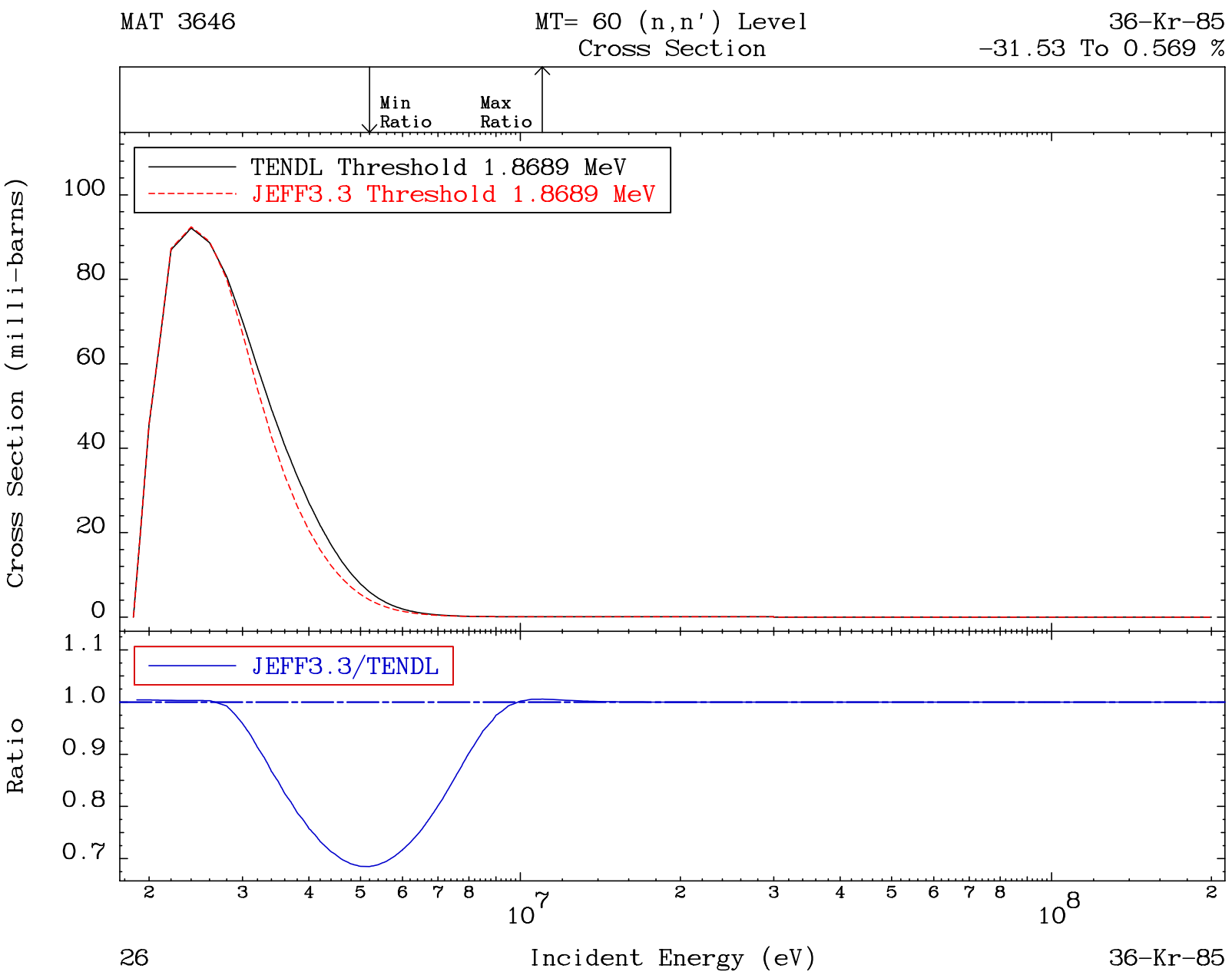

MAT 3646
MT= 55 (n,n') Level
Cross Section
36-Kr-85
-30.23 To 1.079 %
Min Ratio
Max Ratio
TENDL Threshold 1.2385 MeV
JEFF3.3 Threshold 1.2385 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
0.7
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
21
Incident Energy (eV)
36-Kr-85

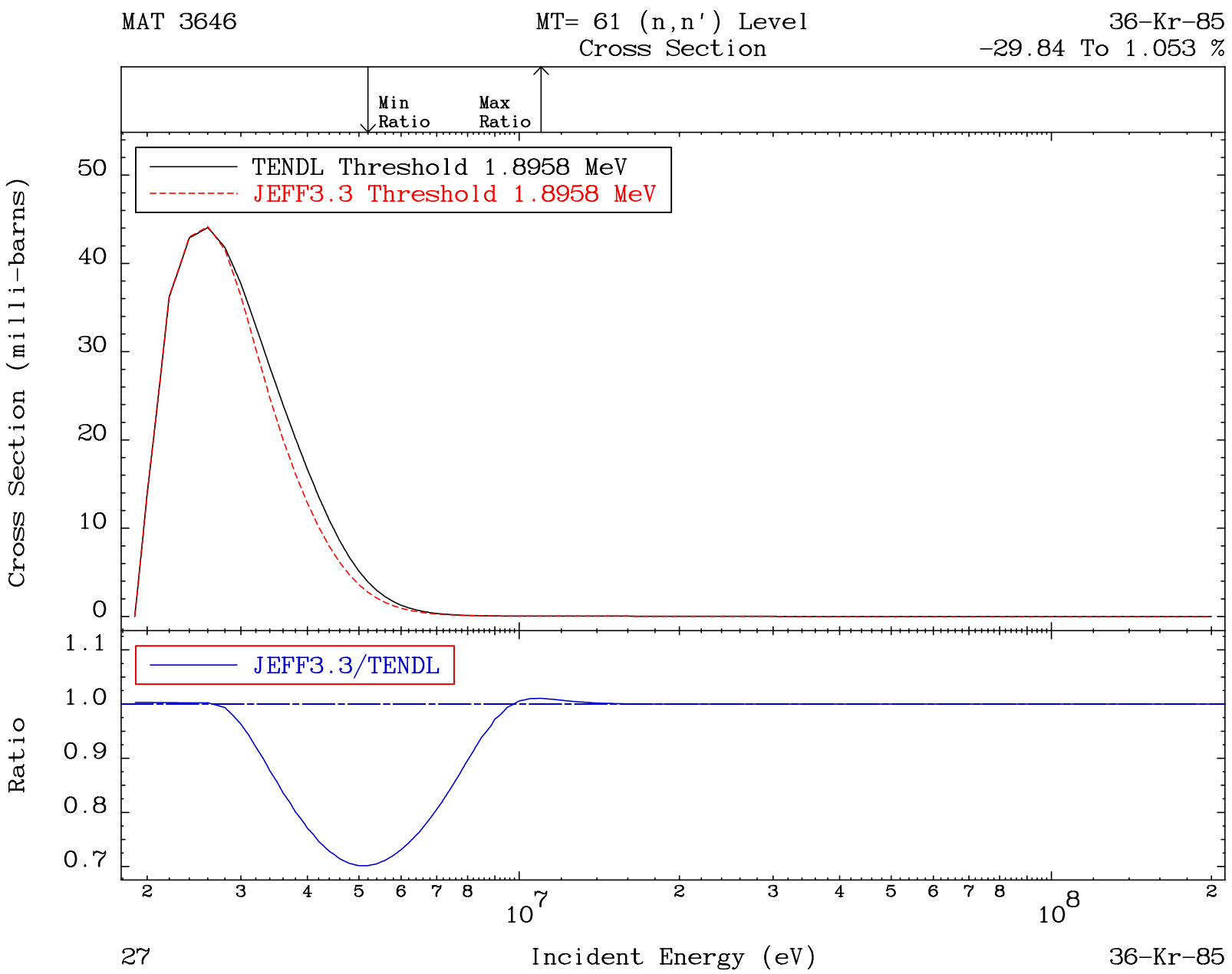

MAT 3646
MT= 56 (n,n') Level
Cross Section
36-Kr-85
-28.64 To 145.8 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.3586 MeV
JEFF3.3 Threshold 1.3586 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
36-Kr-85

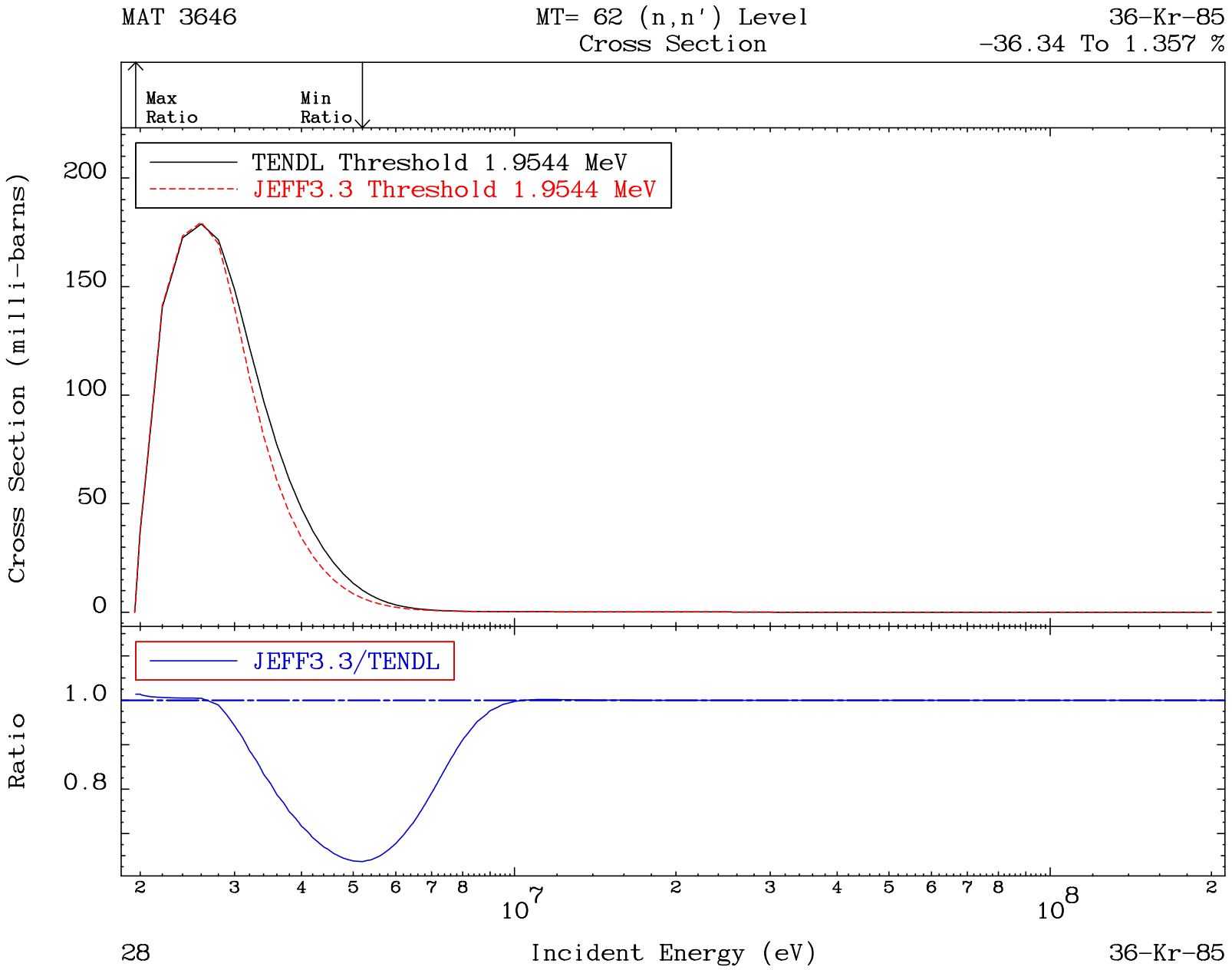

MAT 3646
MT= 57 (n,n') Level
Cross Section
36-Kr-85
-29.18 To 0.363 %
Max Ratio
Min Ratio
TENDL Threshold 1.4334 MeV
JEFF3.3 Threshold 1.4334 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
0.7
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
36-Kr-85

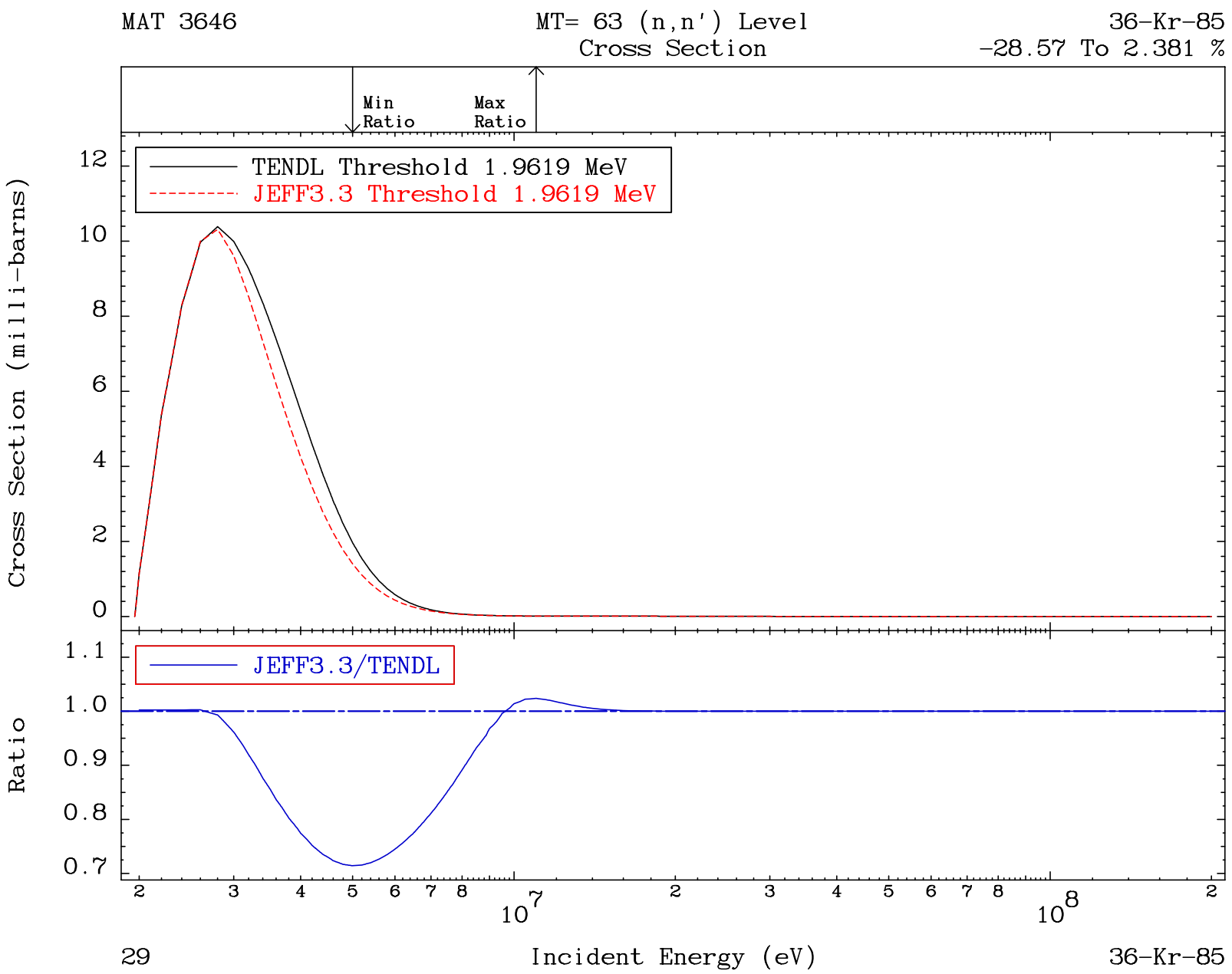

MAT 3646
MT= 58 (n,n') Level
Cross Section
36-Kr-85
-27.58 To 146.2 %
Min
Ratio
Max
Ratio
TENDL Threshold 1.4476 MeV
JEFF3.3 Threshold 1.4476 MeV
Cross Section (milli-barns)
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
24
Incident Energy (eV)
36-Kr-85

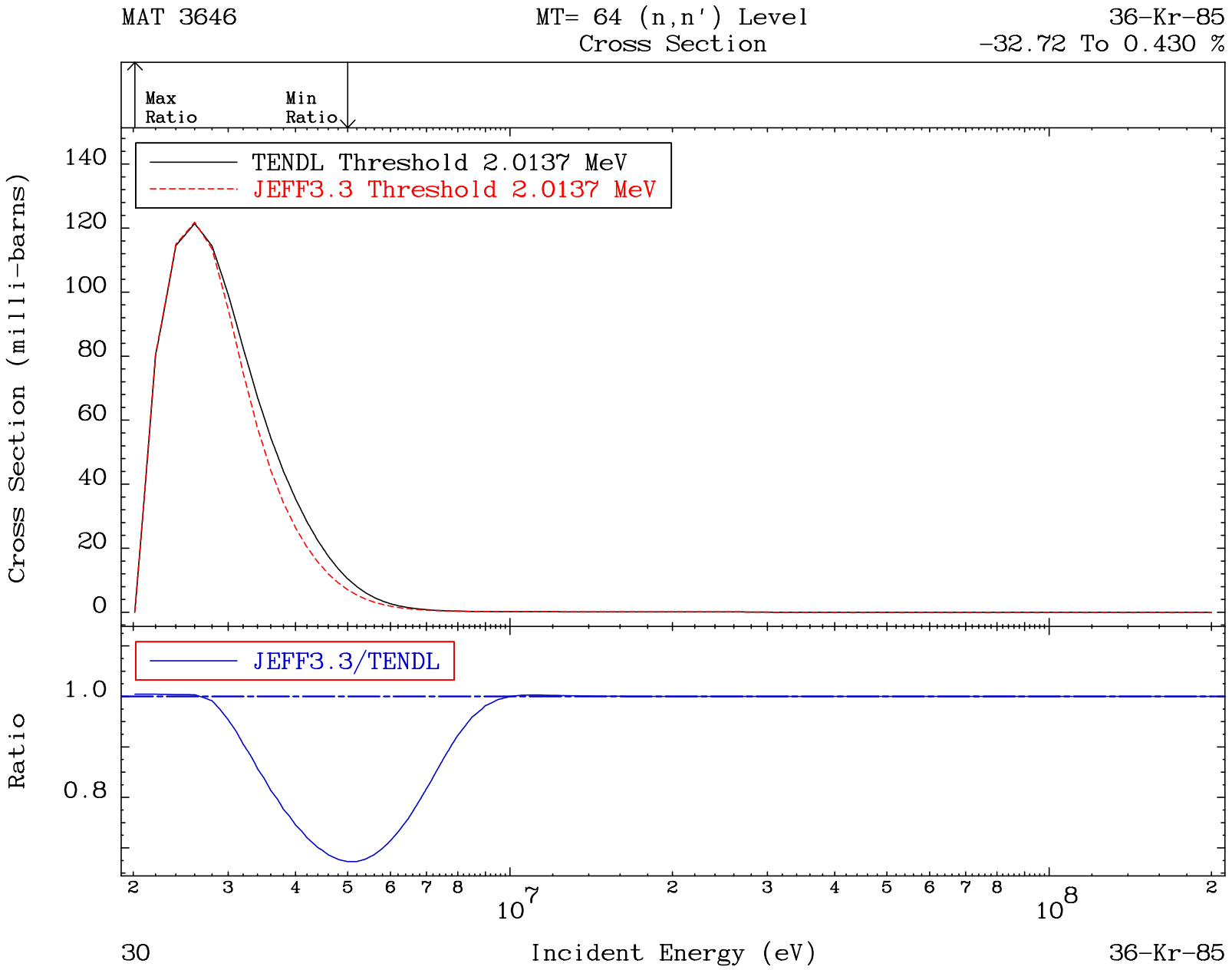

MAT 3646
MT= 59 (n,n') Level
Cross Section
36-Kr-85
-34.51 To 0.753 %
Max Ratio
Min Ratio
TENDL Threshold 1.6307 MeV
JEFF3.3 Threshold 1.6307 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.0
0.8
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
25
Incident Energy (eV)
36-Kr-85

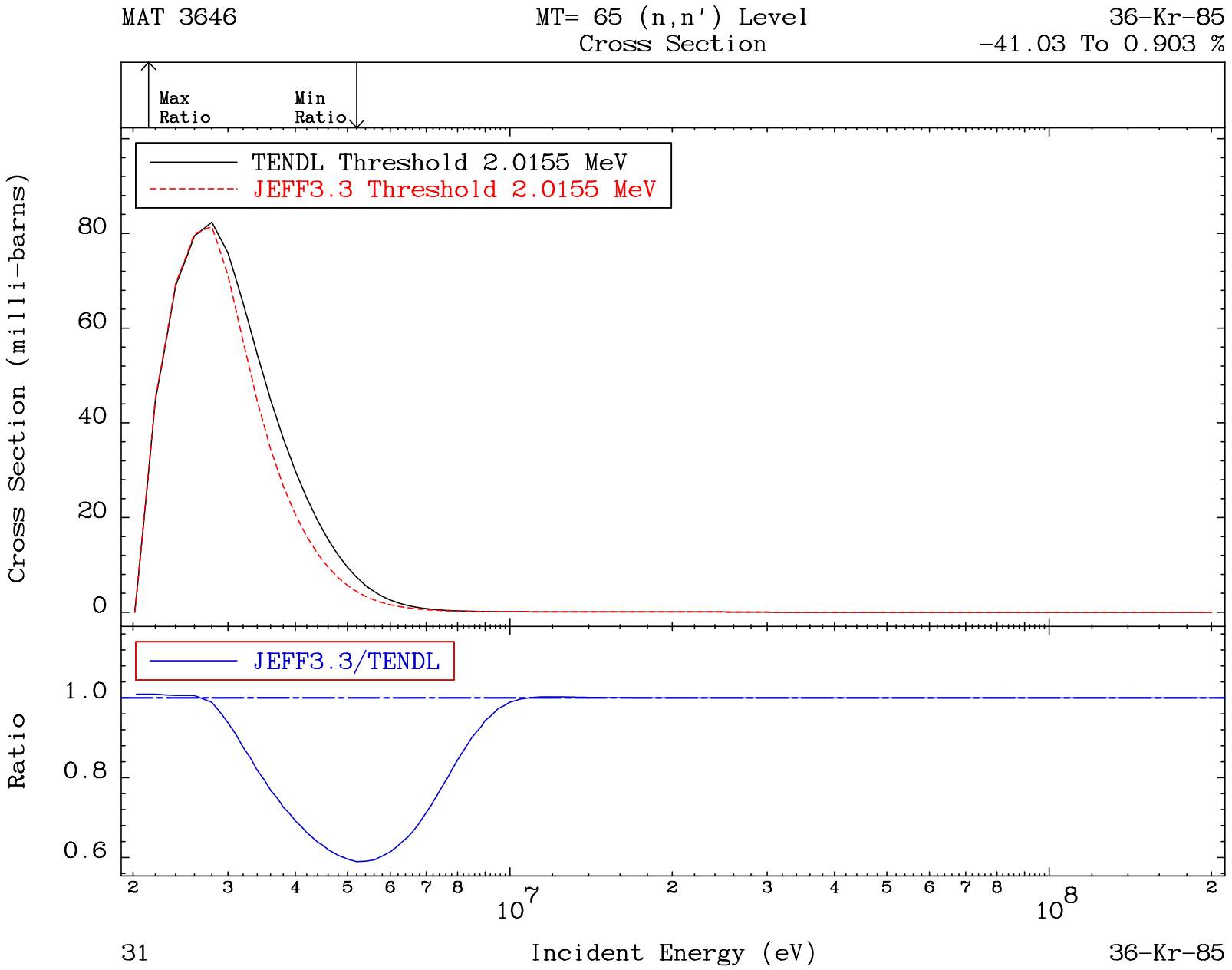

MAT 3646
MT= 60 (n,n') Level
Cross Section
36-Kr-85
-31.53 To 0.569 %
Min Ratio
Max Ratio
TENDL Threshold 1.8689 MeV
JEFF3.3 Threshold 1.8689 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
0.7
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
36-Kr-85

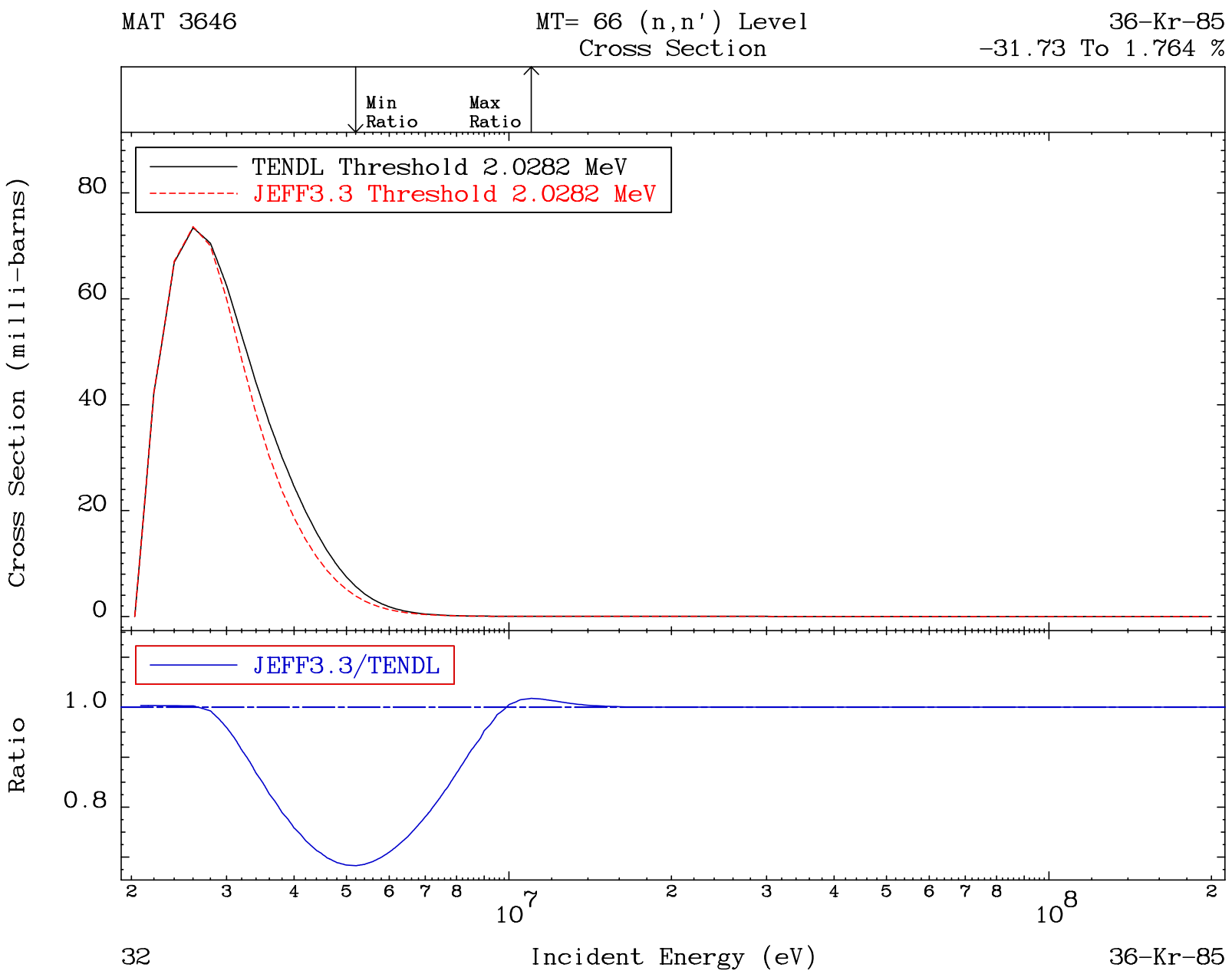

MAT 3646
MT= 61 (n,n') Level
Cross Section
36-Kr-85
-29.84 To 1.053 %
Min Ratio
Max Ratio
TENDL Threshold 1.8958 MeV
JEFF3.3 Threshold 1.8958 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
0.7
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
27
Incident Energy (eV)
36-Kr-85

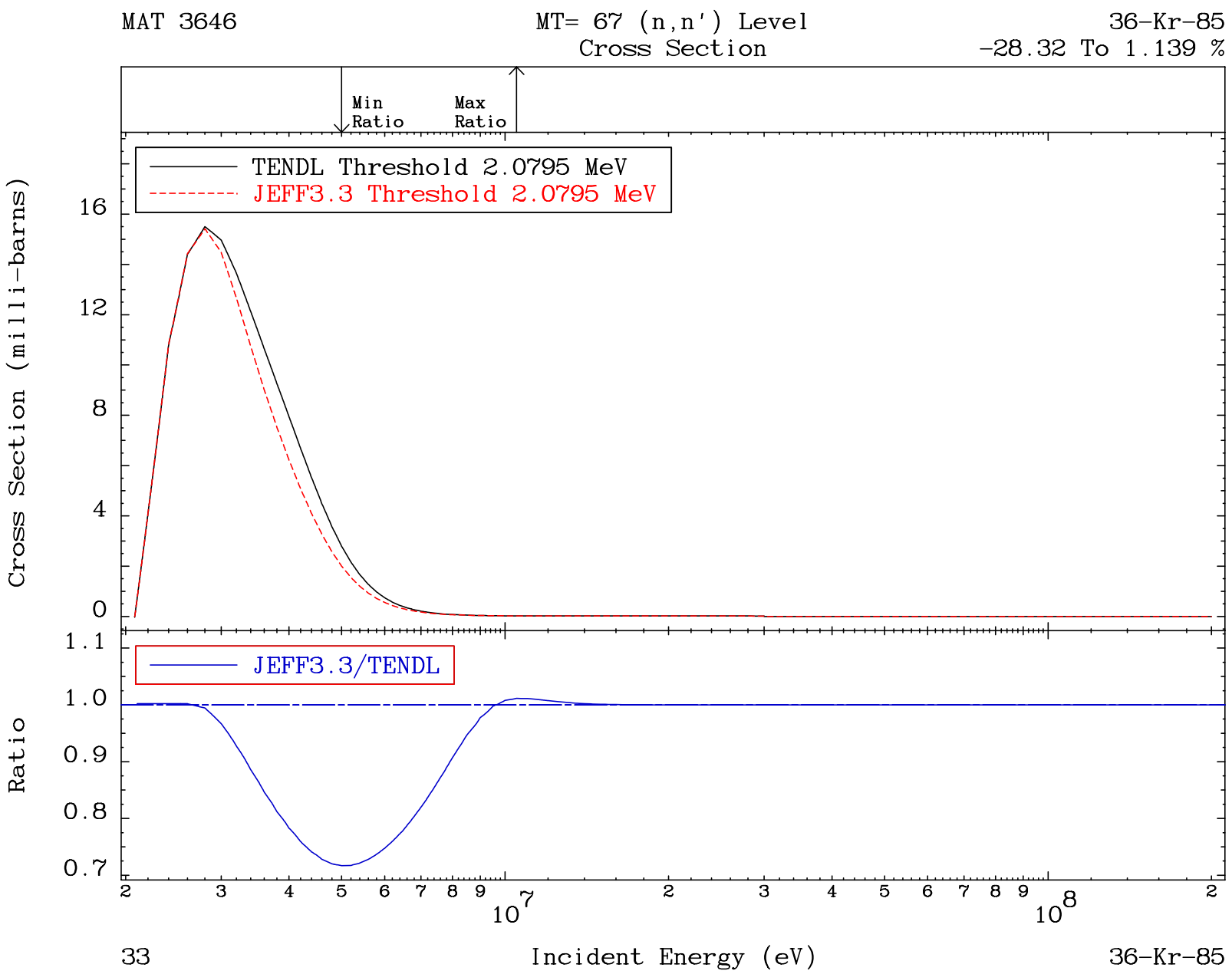

MAT 3646
MT= 62 (n,n') Level
Cross Section
36-Kr-85
-36.34 To 1.357 %
Max Ratio
Min Ratio
TENDL Threshold 1.9544 MeV
JEFF3.3 Threshold 1.9544 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.0
0.8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
36-Kr-85

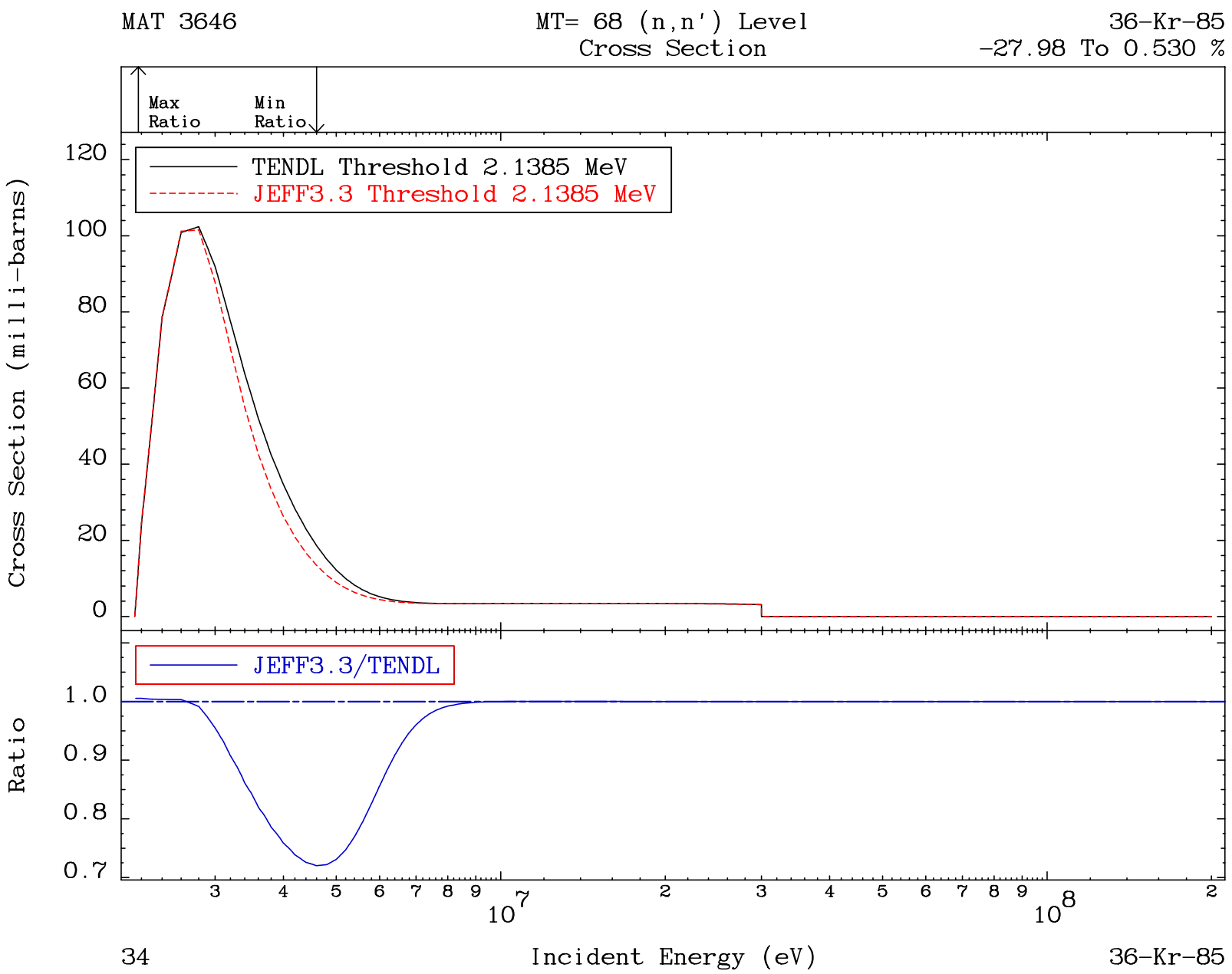

MAT 3646
MT= 63 (n,n') Level
Cross Section
36-Kr-85
-28.57 To 2.381 %
Min Ratio
Max Ratio
TENDL Threshold 1.9619 MeV
JEFF3.3 Threshold 1.9619 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
29
36-Kr-85

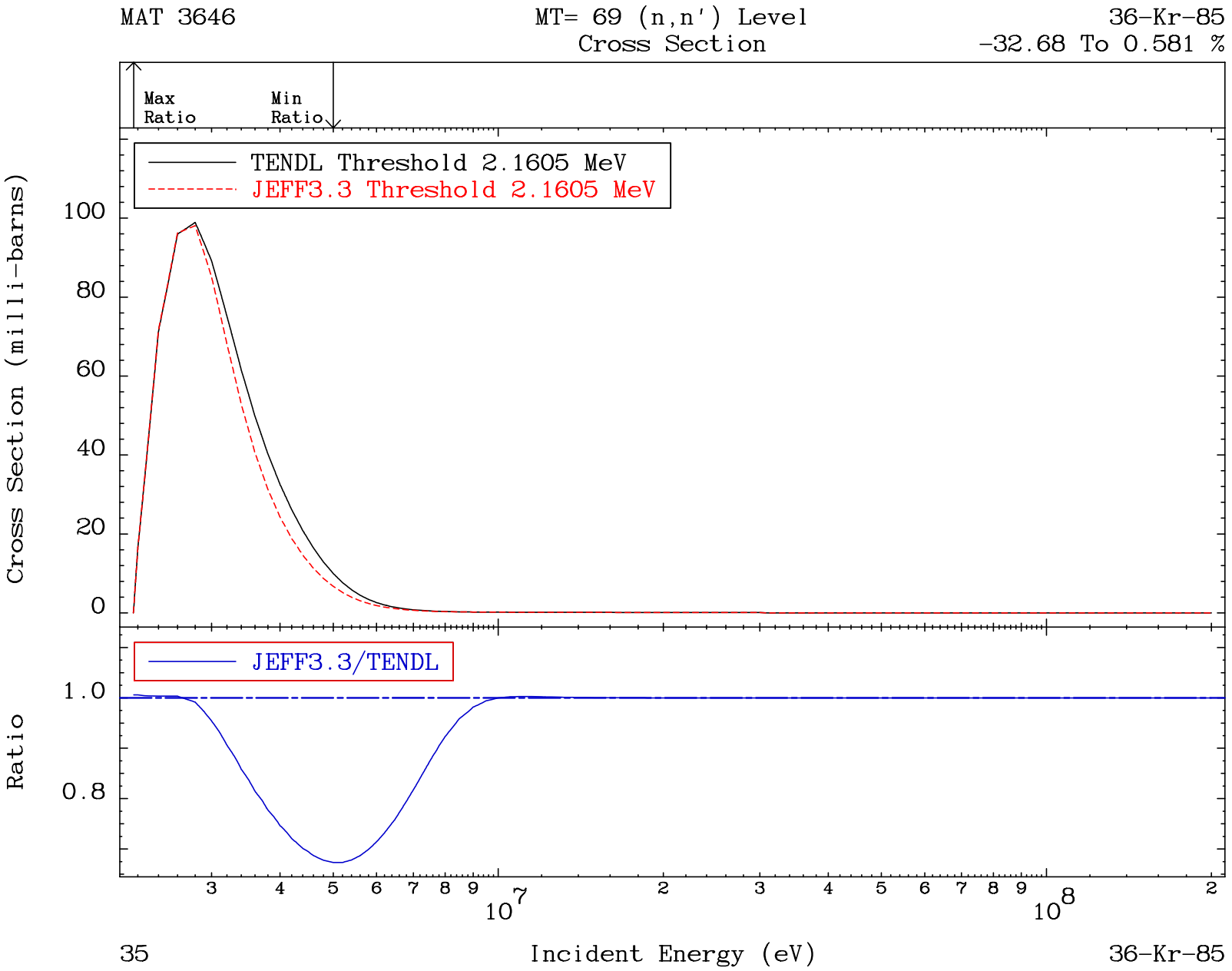

MAT 3646
MT= 64 (n,n') Level
Cross Section
36-Kr-85
-32.72 To 0.430 %
Max Ratio
Min Ratio
TENDL Threshold 2.0137 MeV
JEFF3.3 Threshold 2.0137 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
36-Kr-85

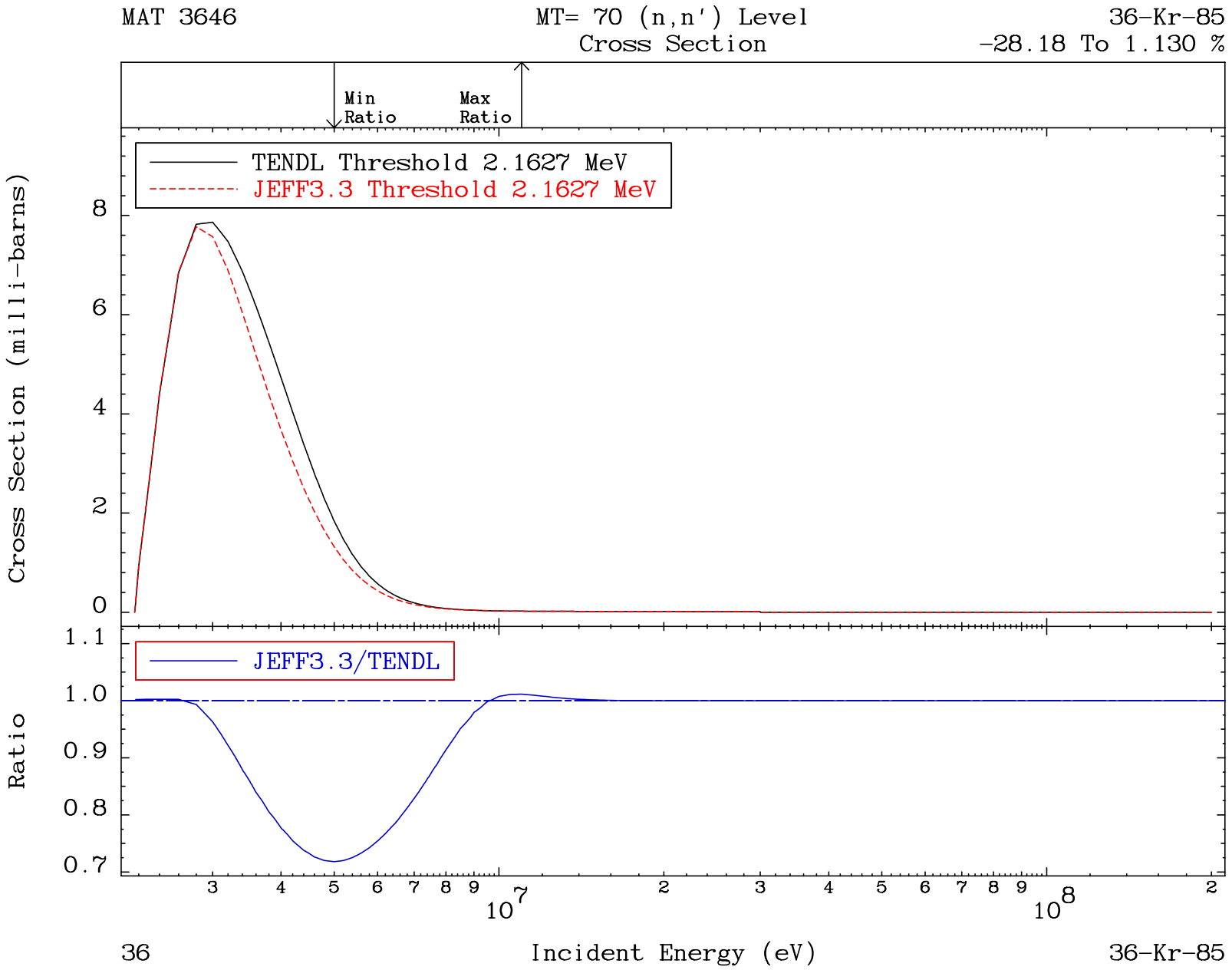

MAT 3646
MT= 65 (n,n') Level
Cross Section
36-Kr-85
-41.03 To 0.903 %
Max Ratio
Min Ratio
TENDL Threshold 2.0155 MeV
JEFF3.3 Threshold 2.0155 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
31
Incident Energy (eV)
36-Kr-85

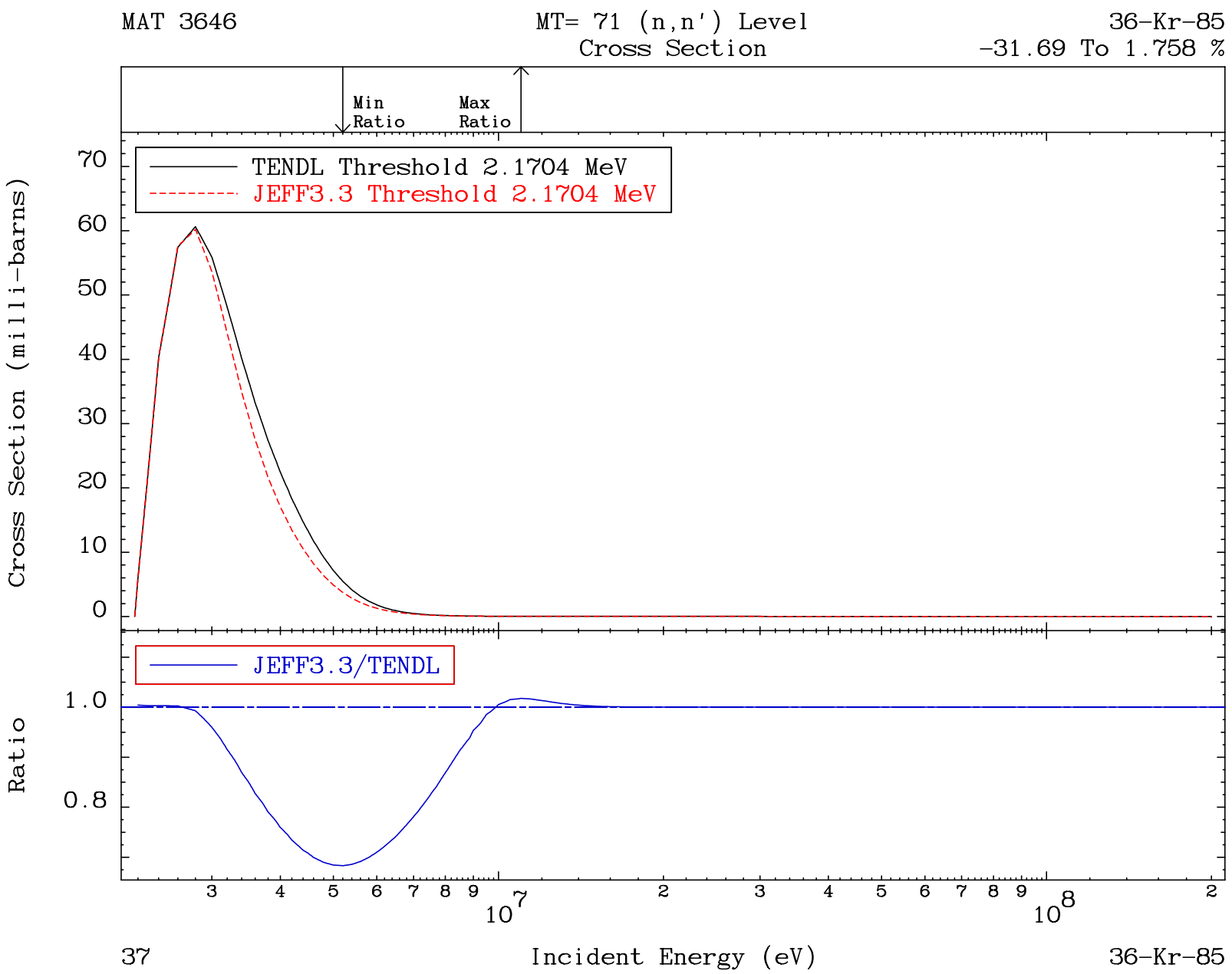

MAT 3646
MT= 66 (n,n') Level
Cross Section
36-Kr-85
-31.73 To 1.764 %
Min Ratio
Max Ratio
TENDL Threshold 2.0282 MeV
JEFF3.3 Threshold 2.0282 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.8
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
32
Incident Energy (eV)
36-Kr-85

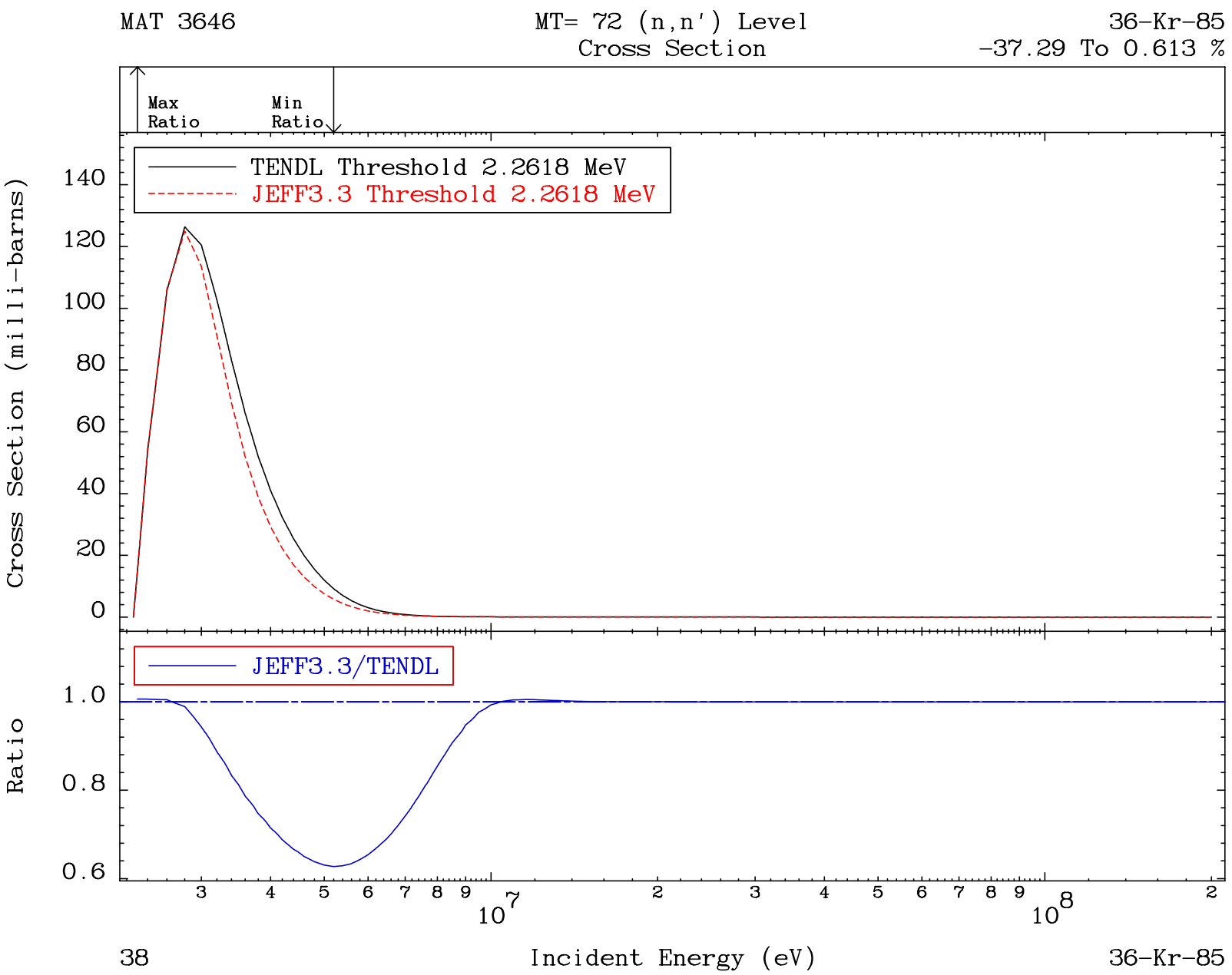

MAT 3646
MT= 67 (n,n') Level
Cross Section
36-Kr-85
-28.32 To 1.139 %
Min Ratio
Max Ratio
TENDL Threshold 2.0795 MeV
JEFF3.3 Threshold 2.0795 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
0.7
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
33
Incident Energy (eV)
36-Kr-85

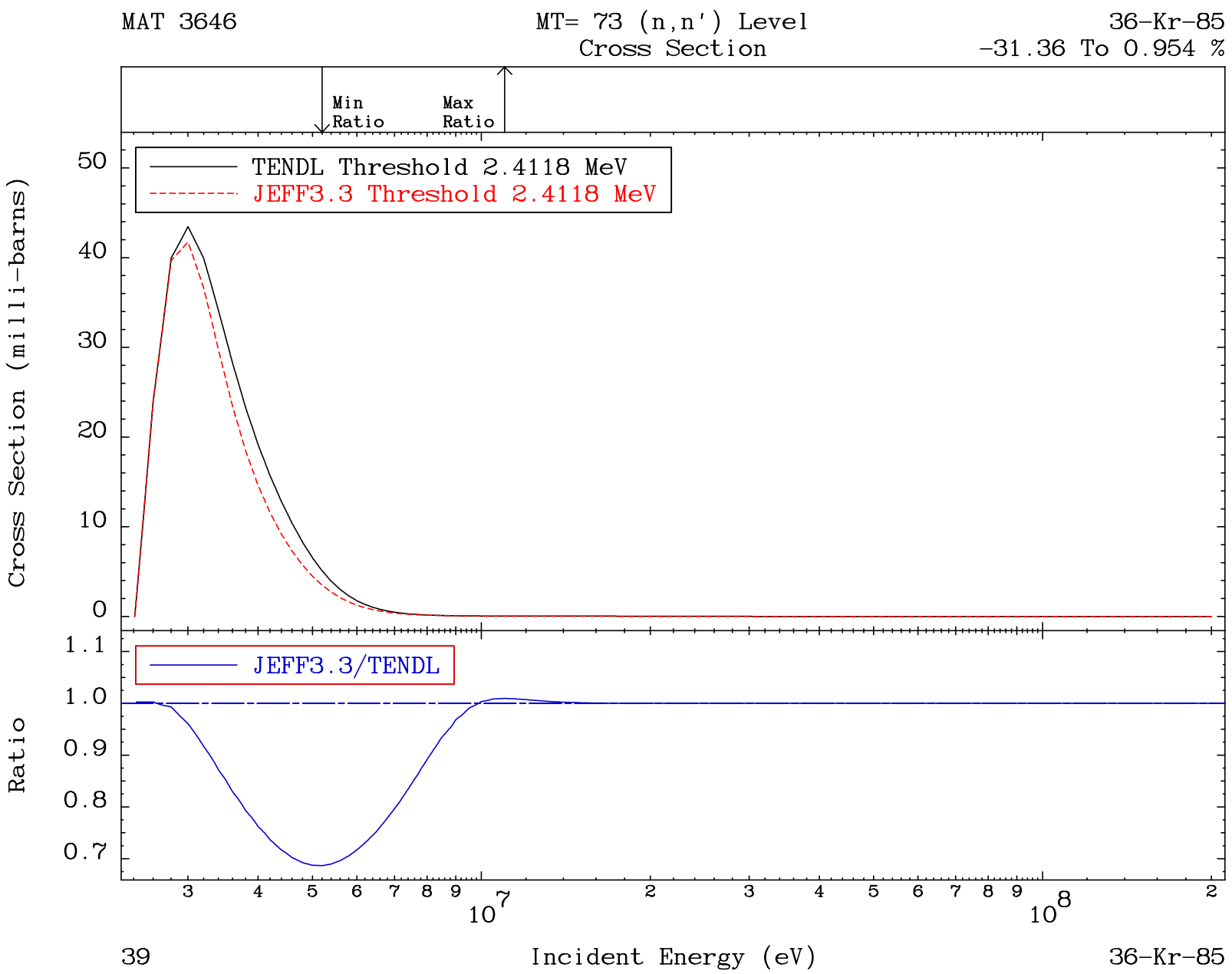

MAT 3646
MT= 68 (n,n') Level
Cross Section
36-Kr-85
-27.98 To 0.530 %
Max Ratio
Min Ratio
TENDL Threshold 2.1385 MeV
JEFF3.3 Threshold 2.1385 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
0.7
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
34
Incident Energy (eV)
36-Kr-85

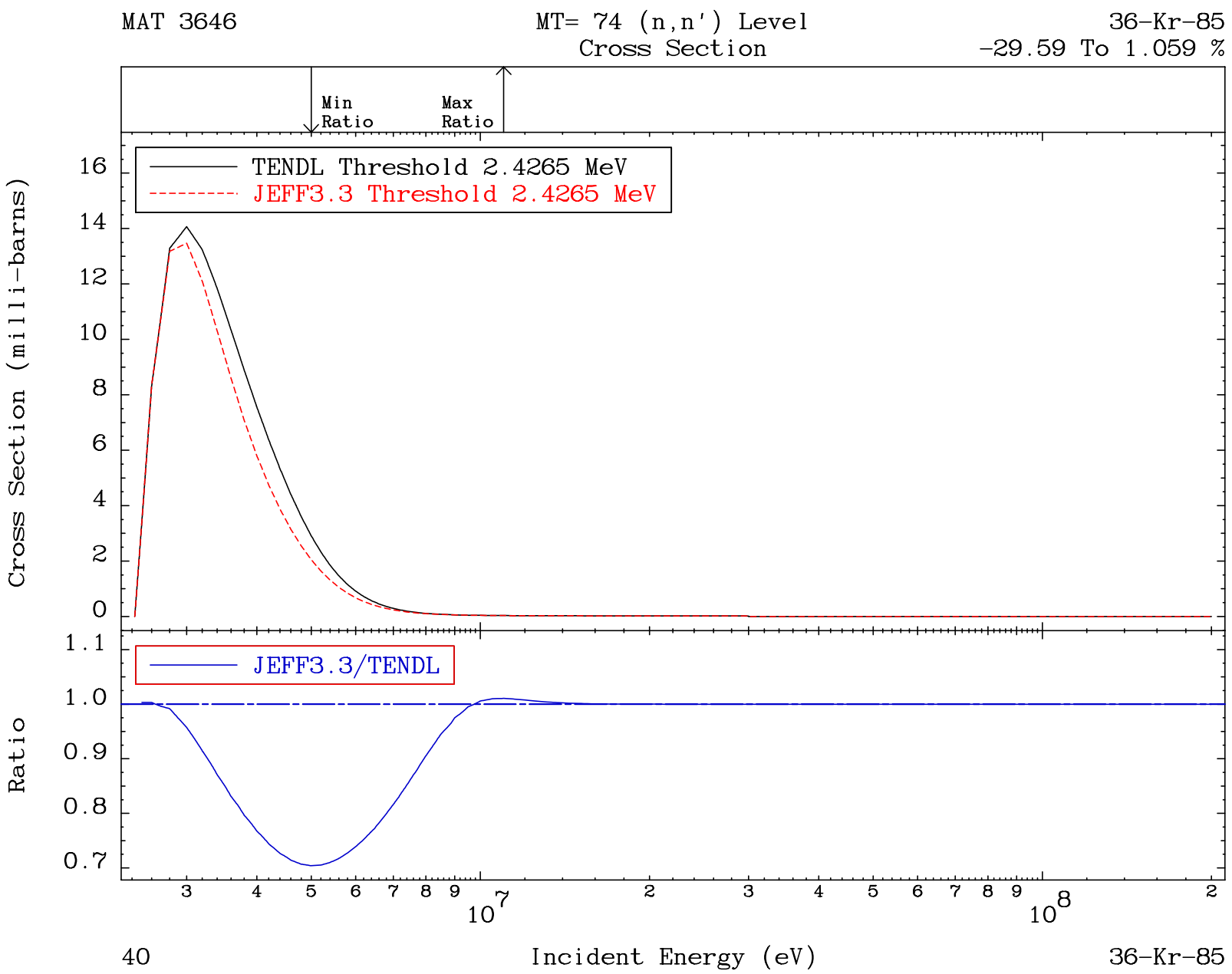

MAT 3646
MT= 69 (n,n') Level
Cross Section
36-Kr-85
-32.68 To 0.581 %
Max Ratio
Min Ratio
TENDL Threshold 2.1605 MeV
JEFF3.3 Threshold 2.1605 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.8
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
35
Incident Energy (eV)
36-Kr-85

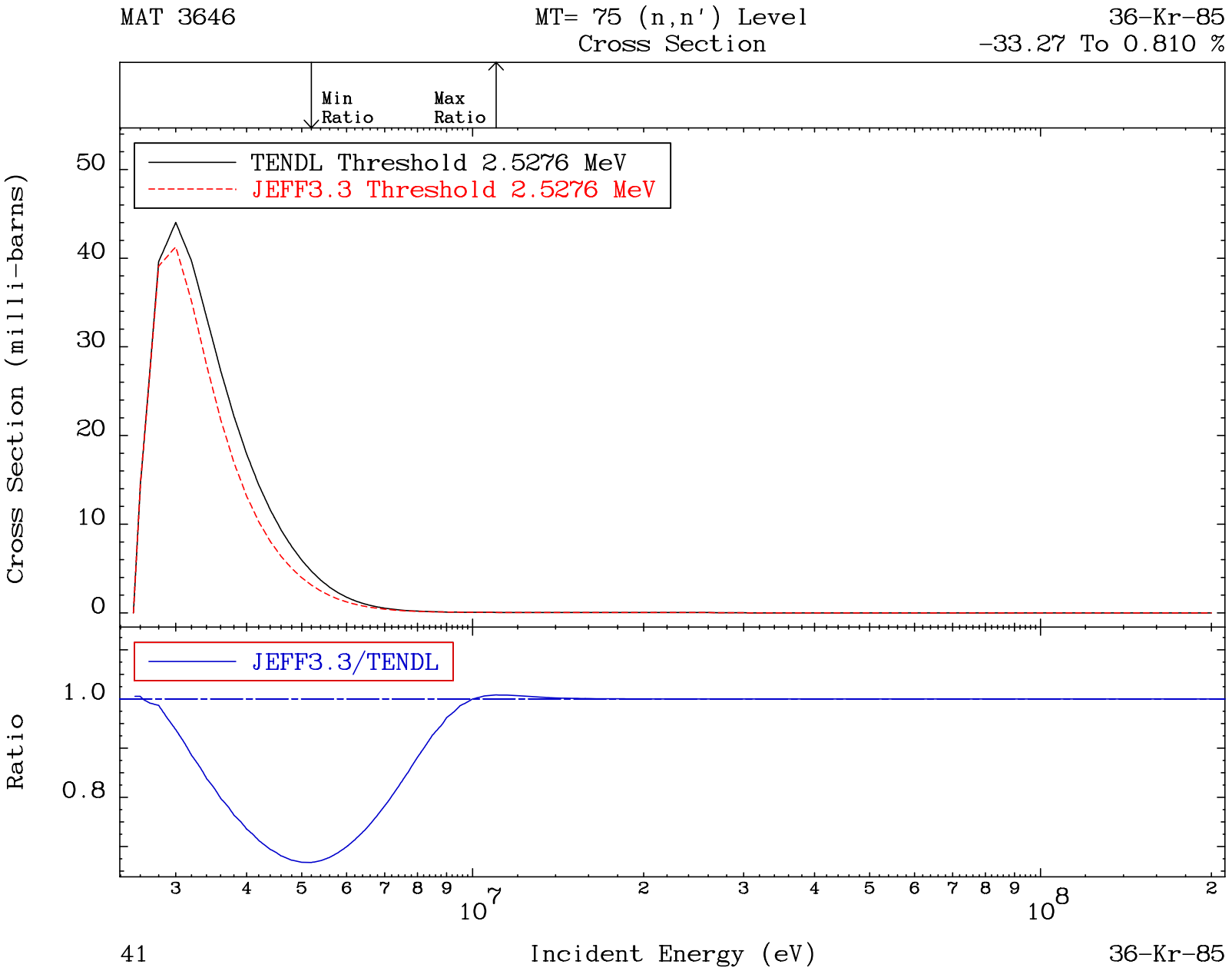

MAT 3646
MT= 70 (n,n') Level
Cross Section
36-Kr-85
-28.18 To 1.130 %
Min Ratio
Max Ratio
TENDL Threshold 2.1627 MeV
JEFF3.3 Threshold 2.1627 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
0.7
0.8
0.9
1.0
1.1
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
36
Incident Energy (eV)
36-Kr-85

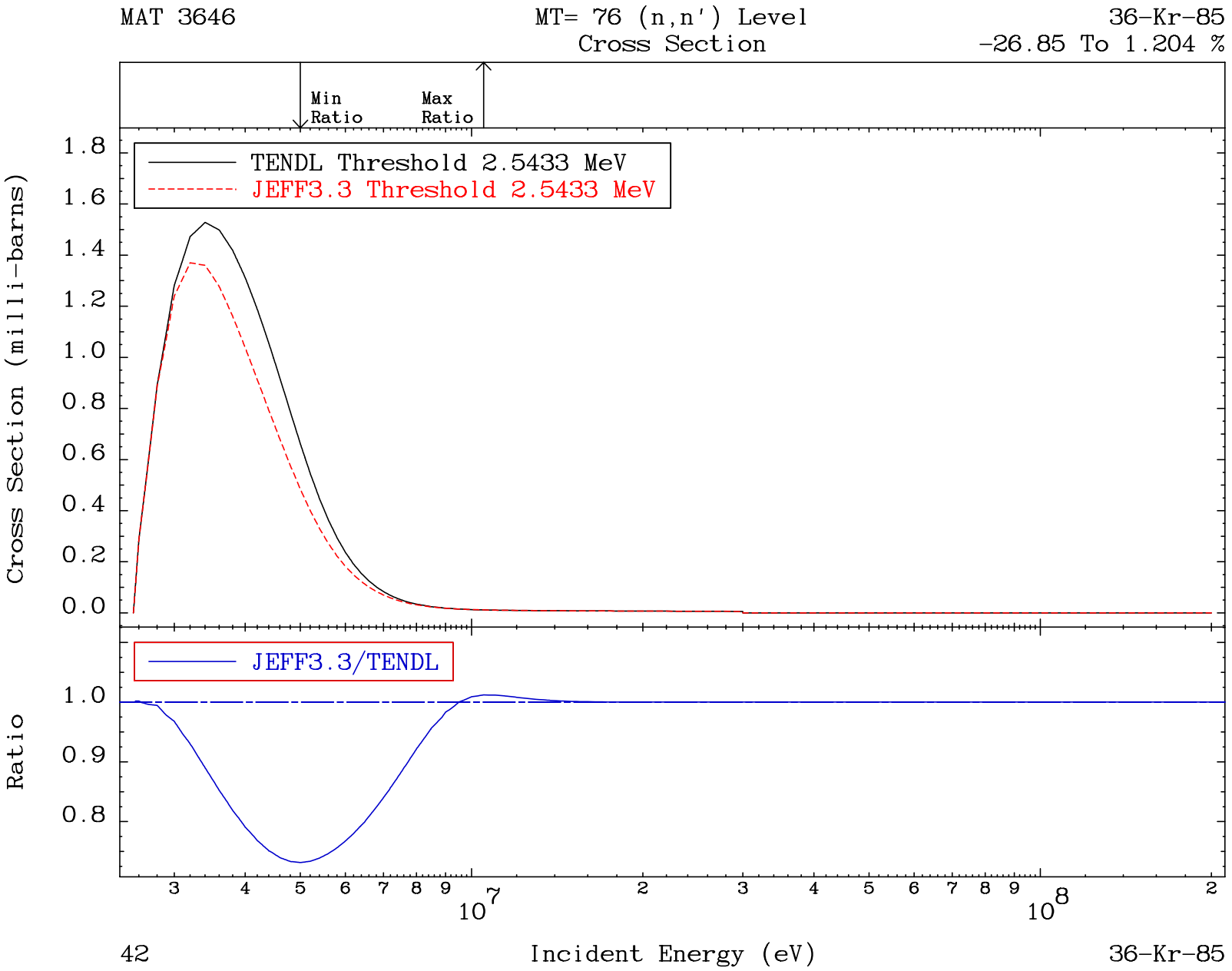

MAT 3646
MT= 71 (n,n') Level
Cross Section
36-Kr-85
-31.69 To 1.758 %
Min Ratio
Max Ratio
TENDL Threshold 2.1704 MeV
JEFF3.3 Threshold 2.1704 MeV
Cross Section (milli-barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.0
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
36-Kr-85

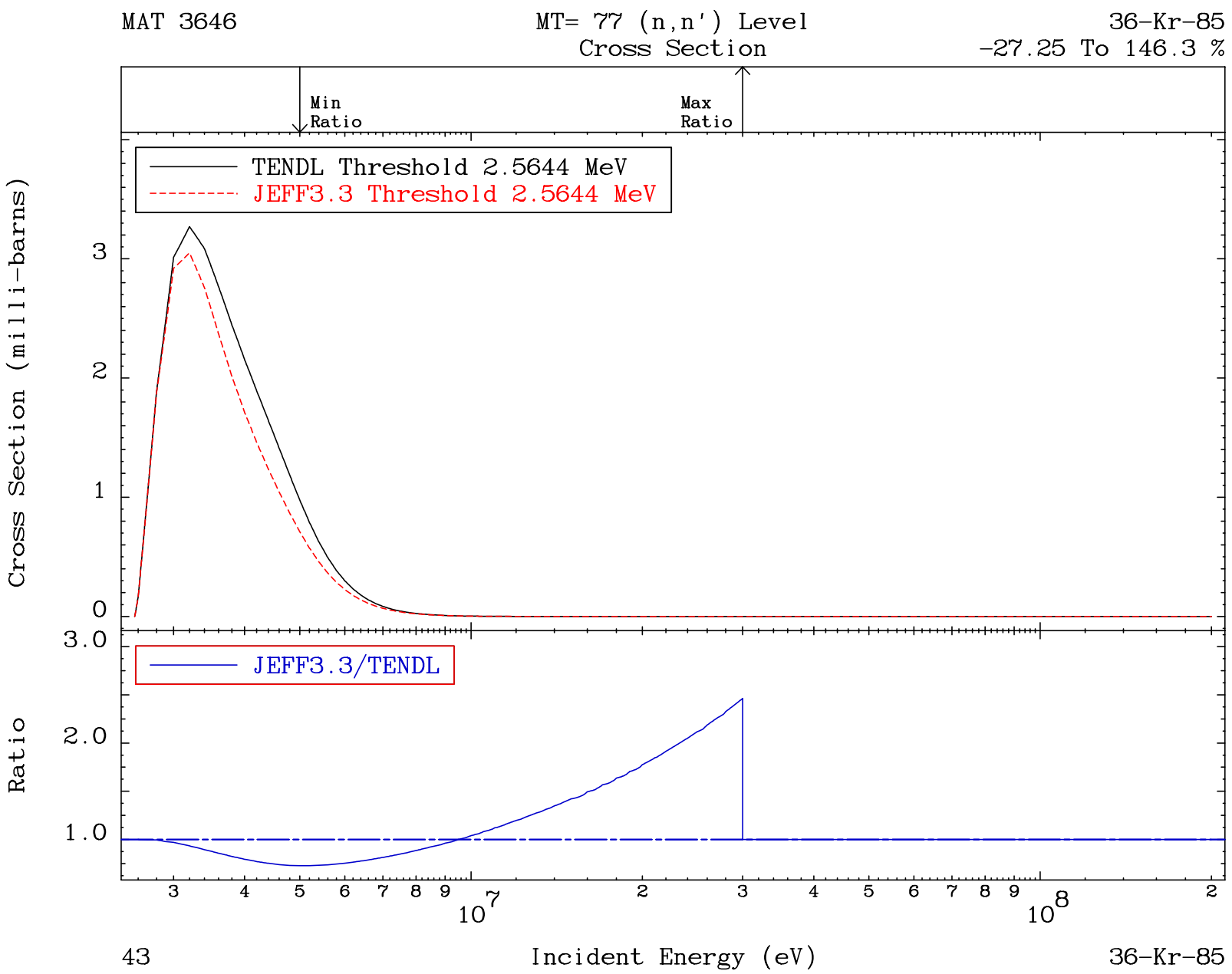

MAT 3646
MT= 72 (n,n') Level
Cross Section
36-Kr-85
-37.29 To 0.613 %
Max Ratio
Min Ratio
TENDL Threshold 2.2618 MeV
JEFF3.3 Threshold 2.2618 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
36-Kr-85

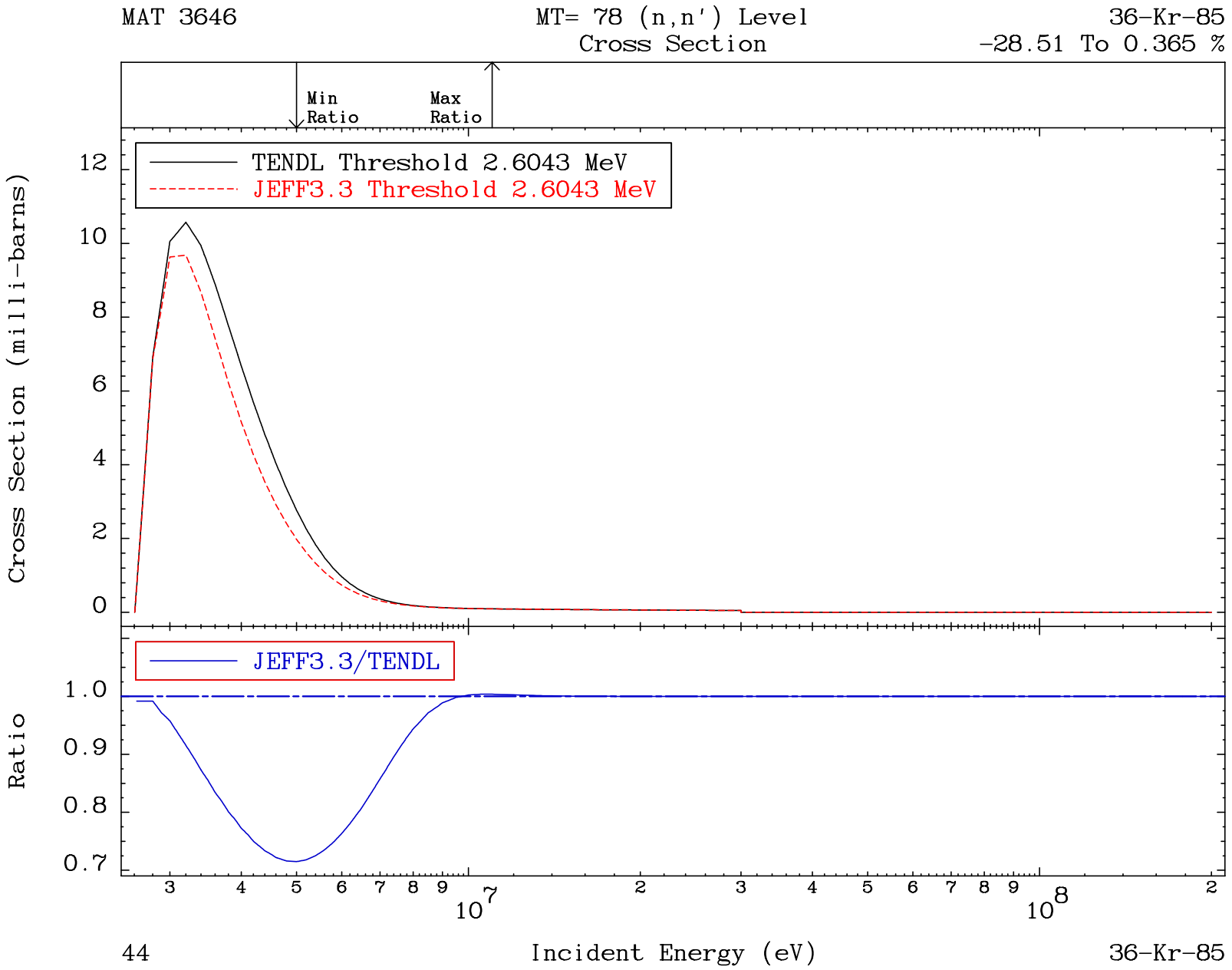

MAT 3646
MT= 73 (n,n') Level
Cross Section
36-Kr-85
-31.36 To 0.954 %
Min Ratio
Max Ratio
TENDL Threshold 2.4118 MeV
JEFF3.3 Threshold 2.4118 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.1
1.0
0.9
0.8
0.7
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
36-Kr-85

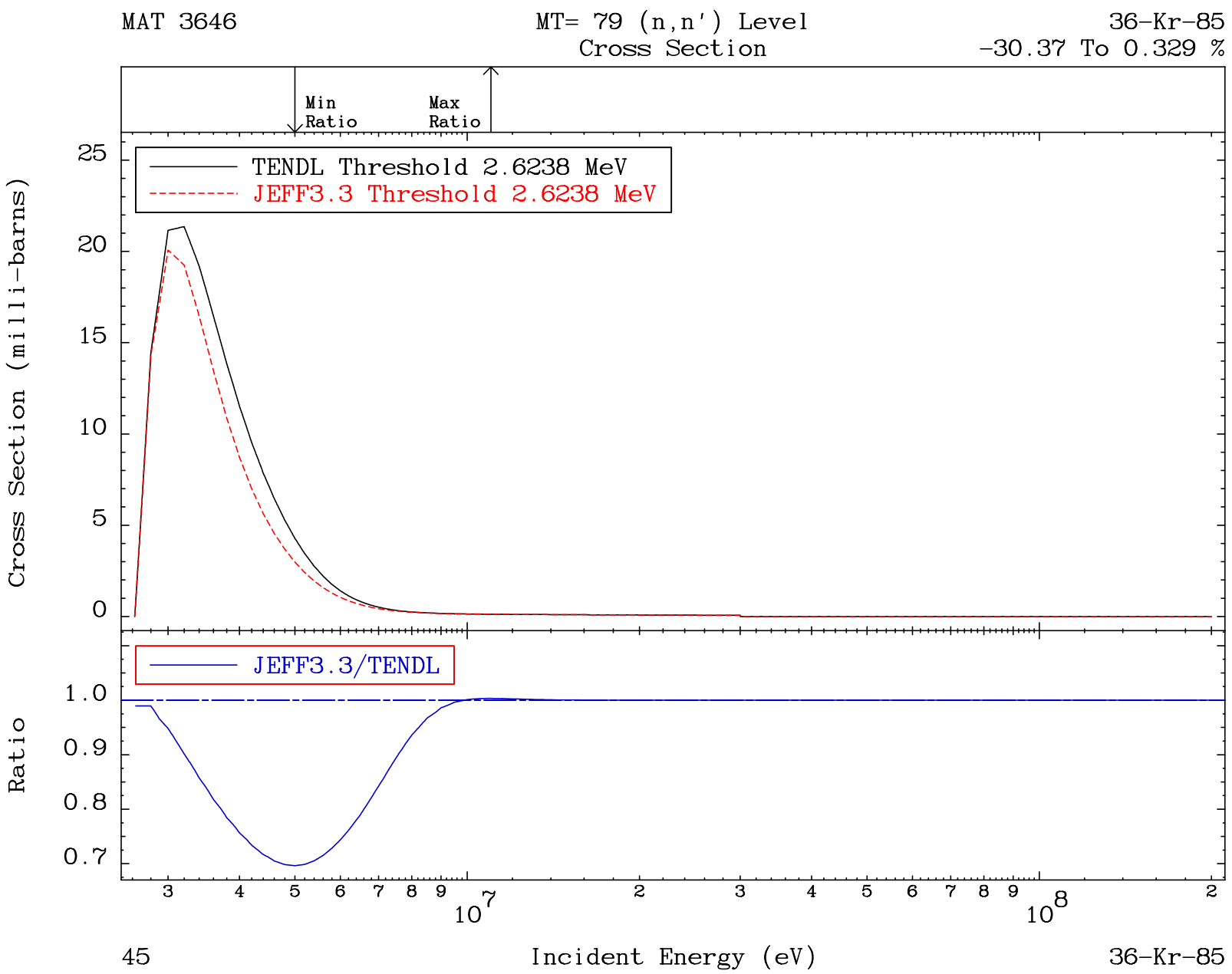

MAT 3646
MT= 74 (n,n') Level
Cross Section
36-Kr-85
-29.59 To 1.059 %
Min Ratio
Max Ratio
TENDL Threshold 2.4265 MeV
JEFF3.3 Threshold 2.4265 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
40
36-Kr-85

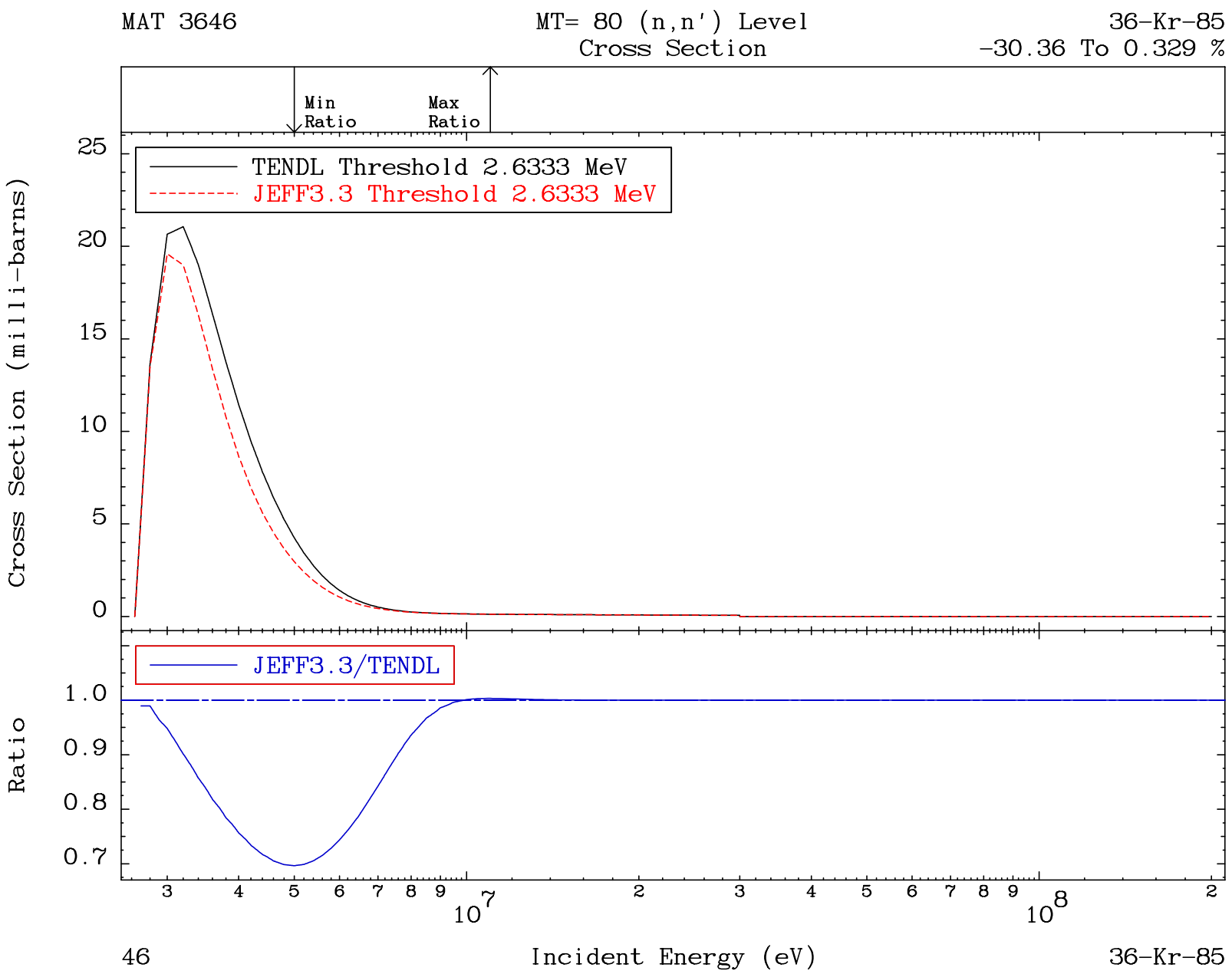

MAT 3646
MT= 75 (n,n') Level
Cross Section
36-Kr-85
-33.27 To 0.810 %
Min Ratio
Max Ratio
TENDL Threshold 2.5276 MeV
JEFF3.3 Threshold 2.5276 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.0
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
36-Kr-85

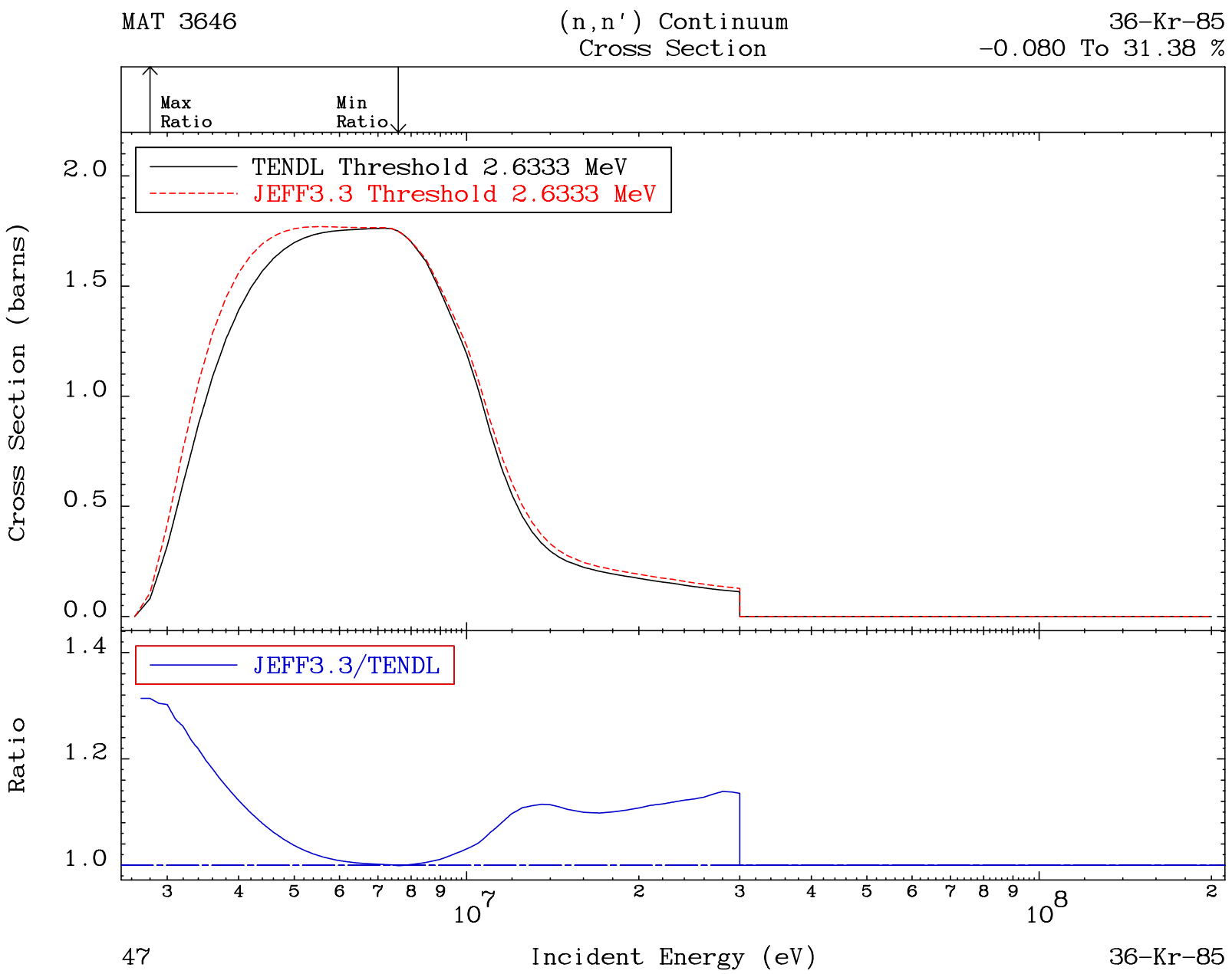

MAT 3646
MT= 76 (n,n') Level
Cross Section
36-Kr-85
-26.85 To 1.204 %
Min Ratio
Max Ratio
TENDL Threshold 2.5433 MeV
JEFF3.3 Threshold 2.5433 MeV
Cross Section (milli-barns)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
42
Incident Energy (eV)
36-Kr-85

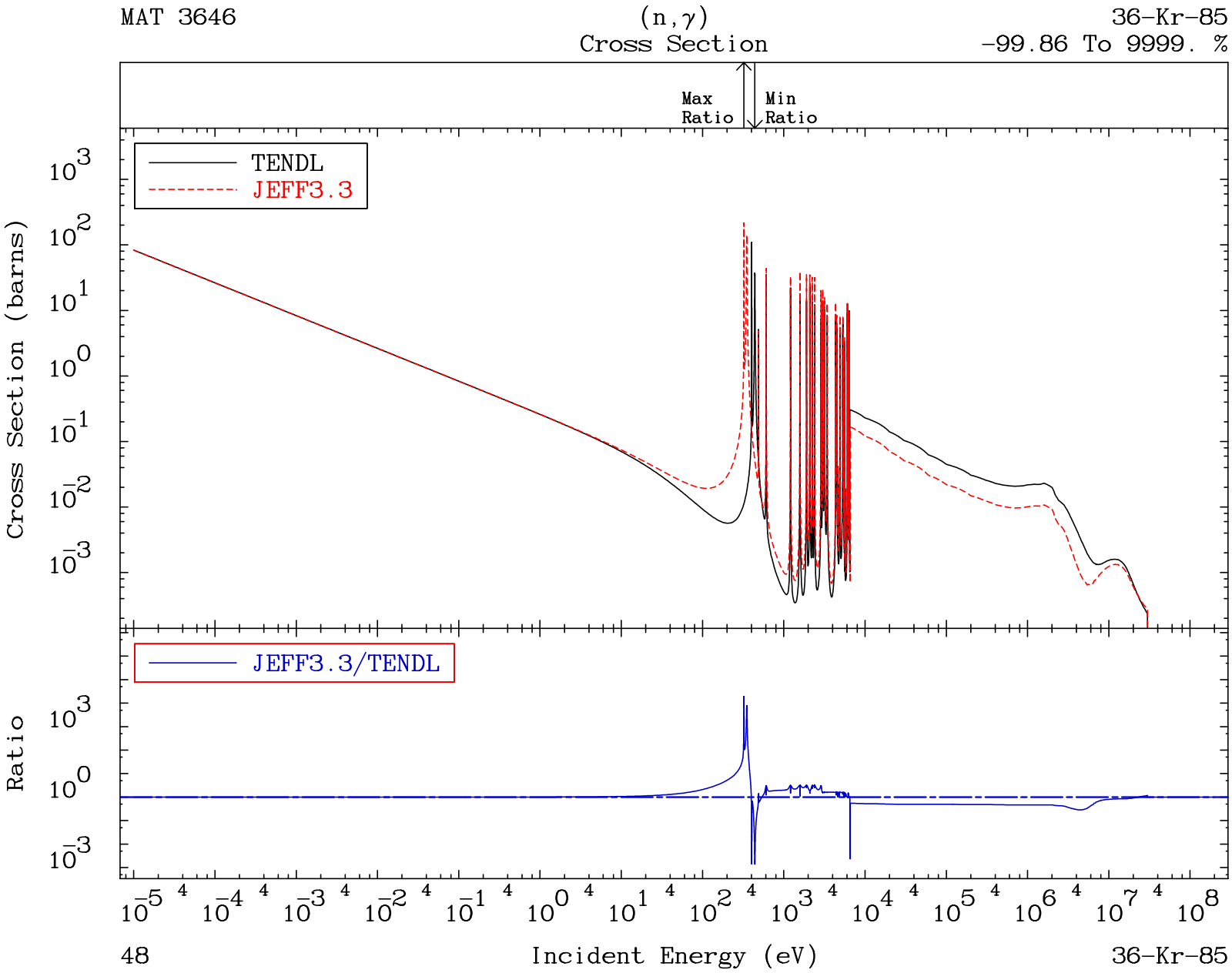

MAT 3646
MT= 77 (n,n') Level
Cross Section
36-Kr-85
-27.25 To 146.3 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.5644 MeV
JEFF3.3 Threshold 2.5644 MeV
Cross Section (milli-barns)
0
1
2
3
JEFF3.3/TENDL
Ratio
1.0
2.0
3.0
3
4
5
6
7
8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
36-Kr-85

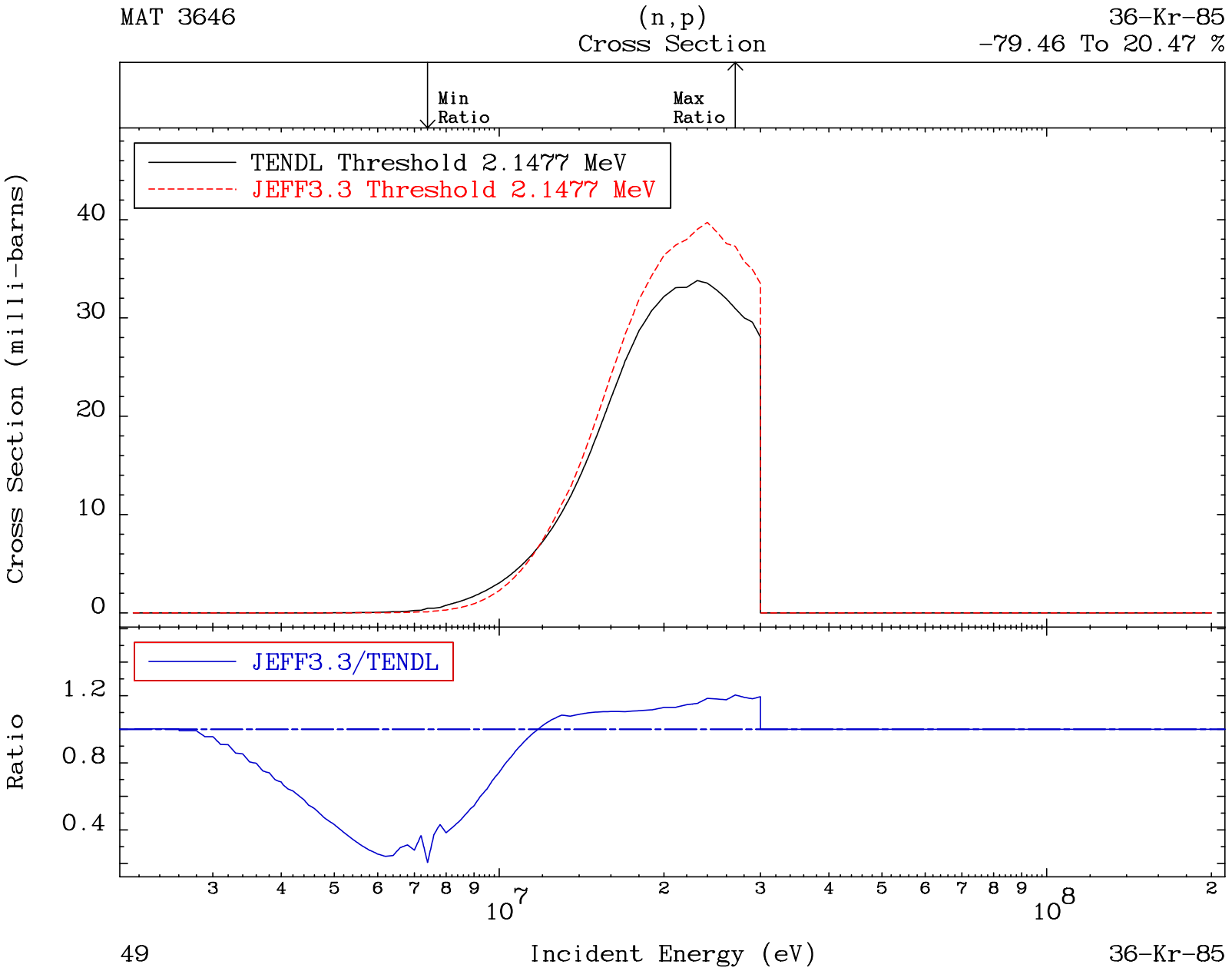

MAT 3646
MT= 78 (n,n') Level
Cross Section
36-Kr-85
-28.51 To 0.365 %
Min Ratio
Max Ratio
TENDL Threshold 2.6043 MeV
JEFF3.3 Threshold 2.6043 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
44
36-Kr-85

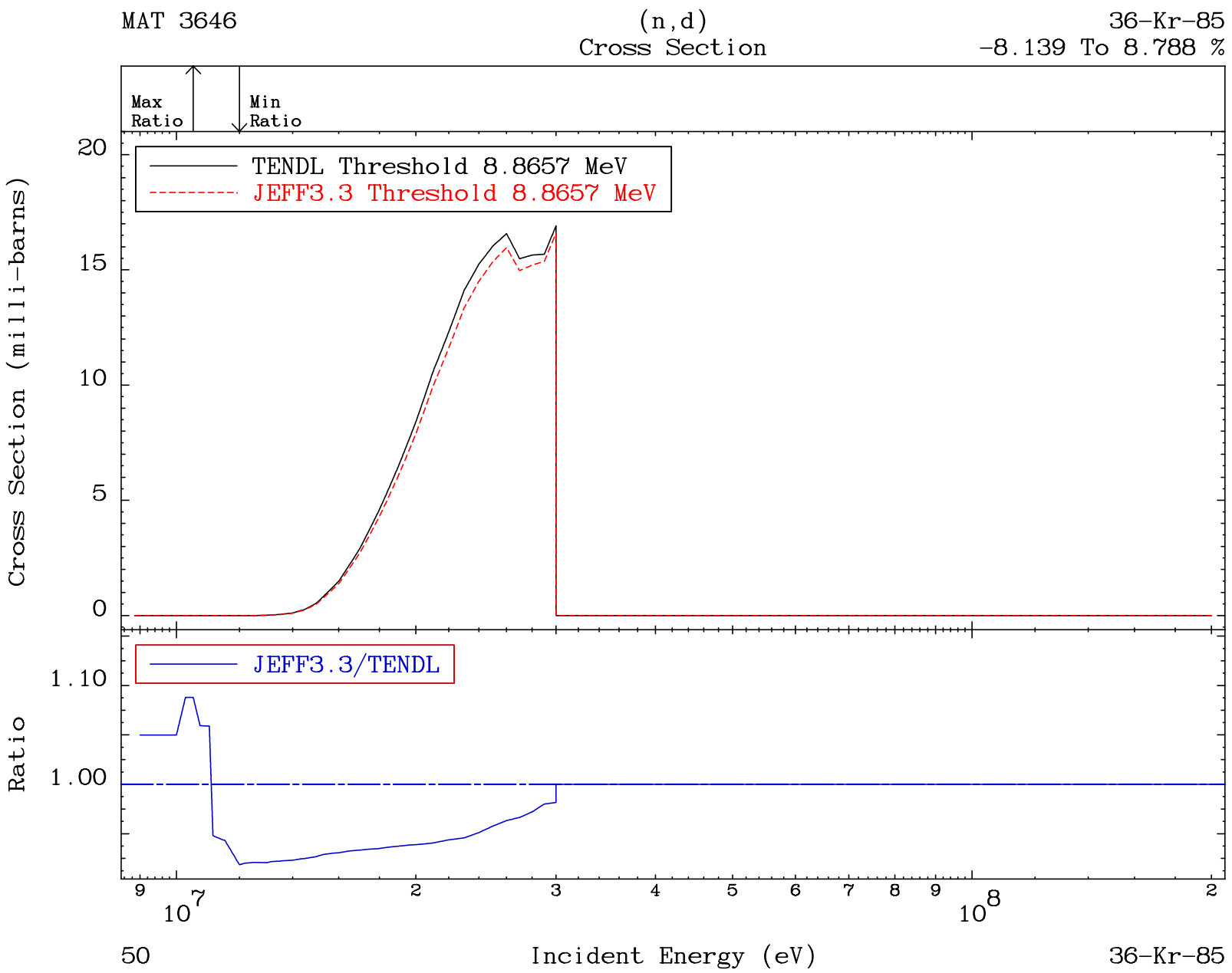

MAT 3646
MT= 79 (n,n') Level
Cross Section
36-Kr-85
-30.37 To 0.329 %
Min Ratio
Max Ratio
TENDL Threshold 2.6238 MeV
JEFF3.3 Threshold 2.6238 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
0.7
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
45
Incident Energy (eV)
36-Kr-85

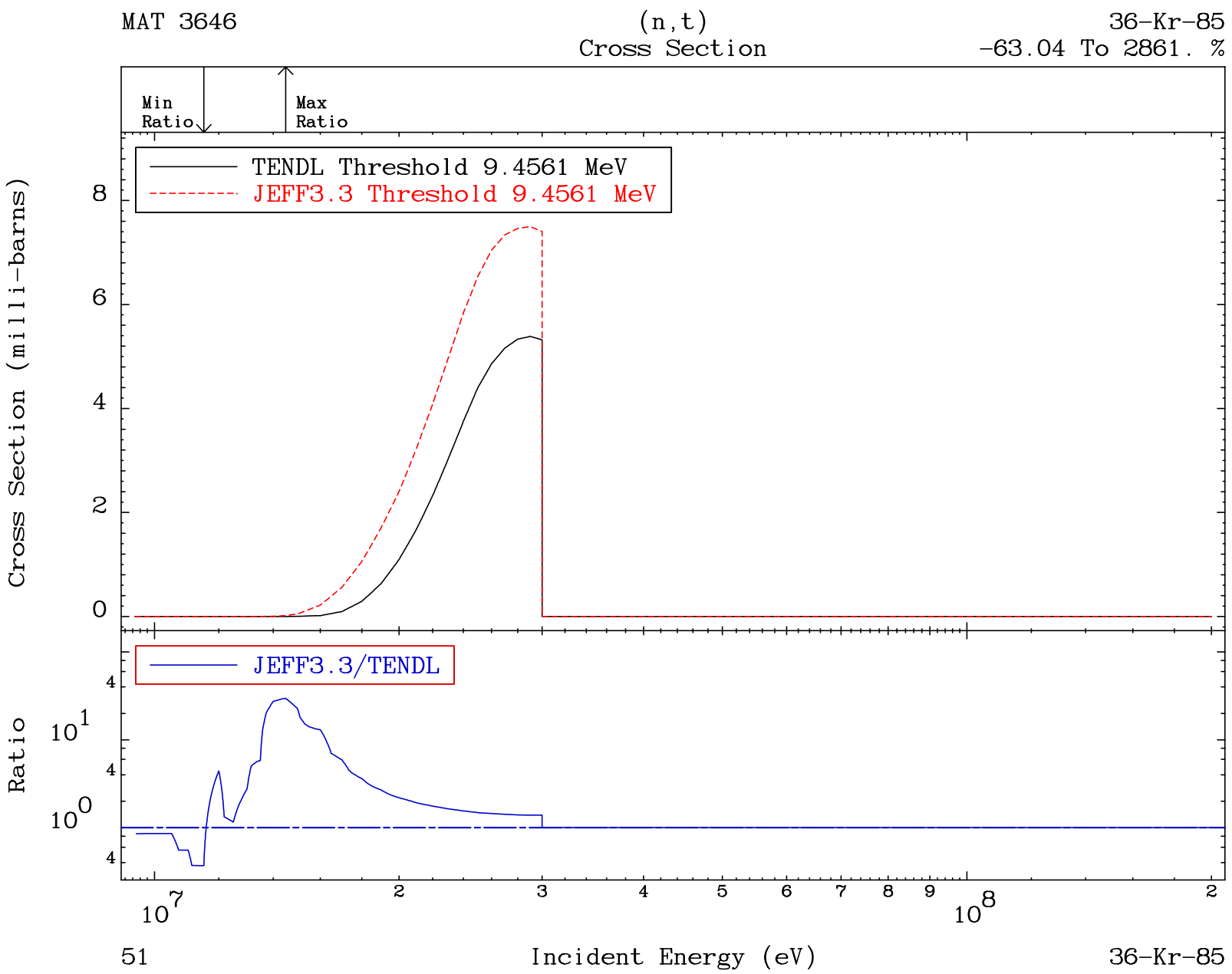

MAT 3646
MT= 80 (n,n') Level
Cross Section
36-Kr-85
-30.36 To 0.329 %
Min Ratio
Max Ratio
TENDL Threshold 2.6333 MeV
JEFF3.3 Threshold 2.6333 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.0
0.9
0.8
0.7
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
46
Incident Energy (eV)
36-Kr-85

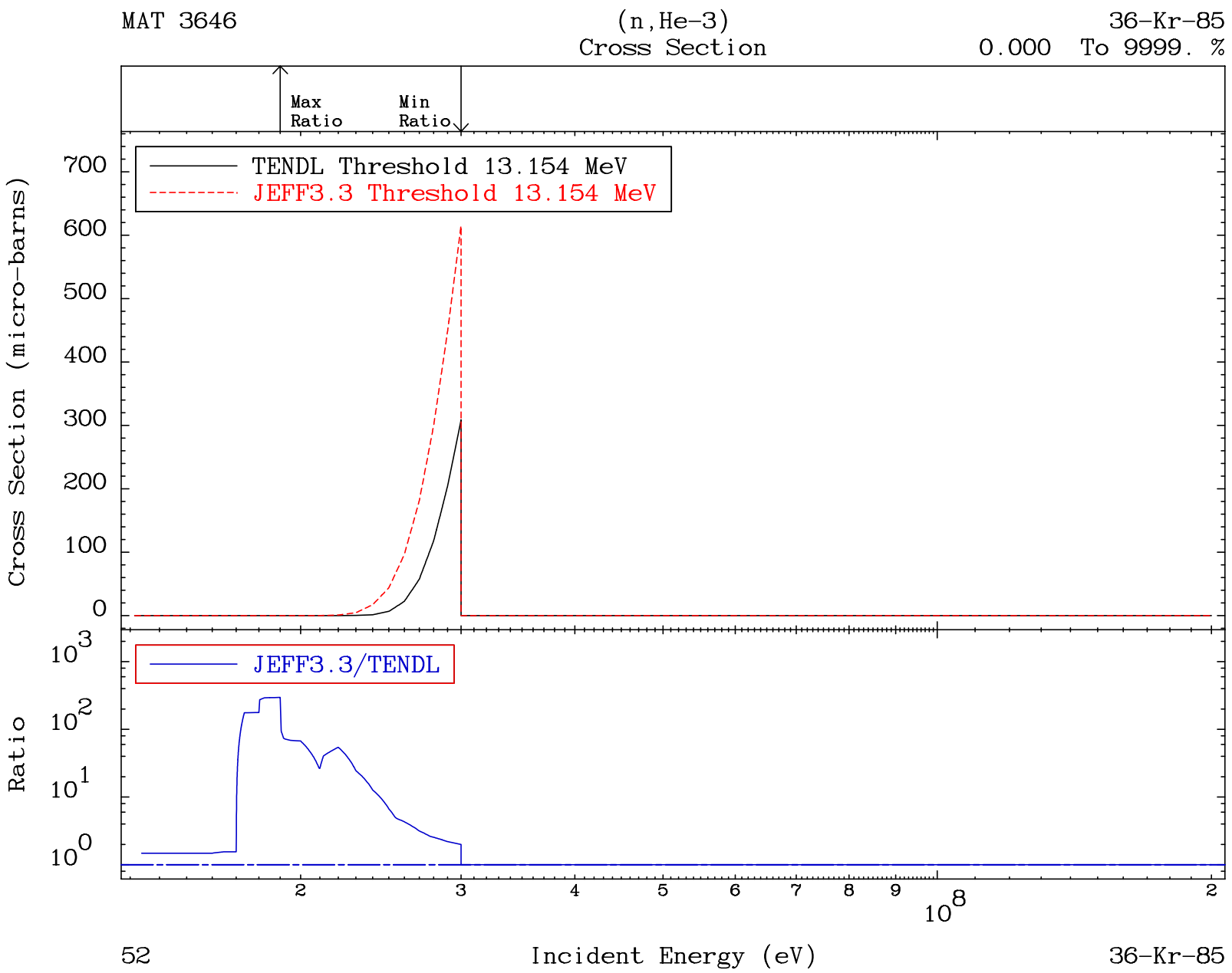

MAT 3646
(n,n') Continuum
Cross Section
36-Kr-85
-0.080 To 31.38 %
Max Ratio
Min Ratio
TENDL Threshold 2.6333 MeV
JEFF3.3 Threshold 2.6333 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
47
Incident Energy (eV)
36-Kr-85

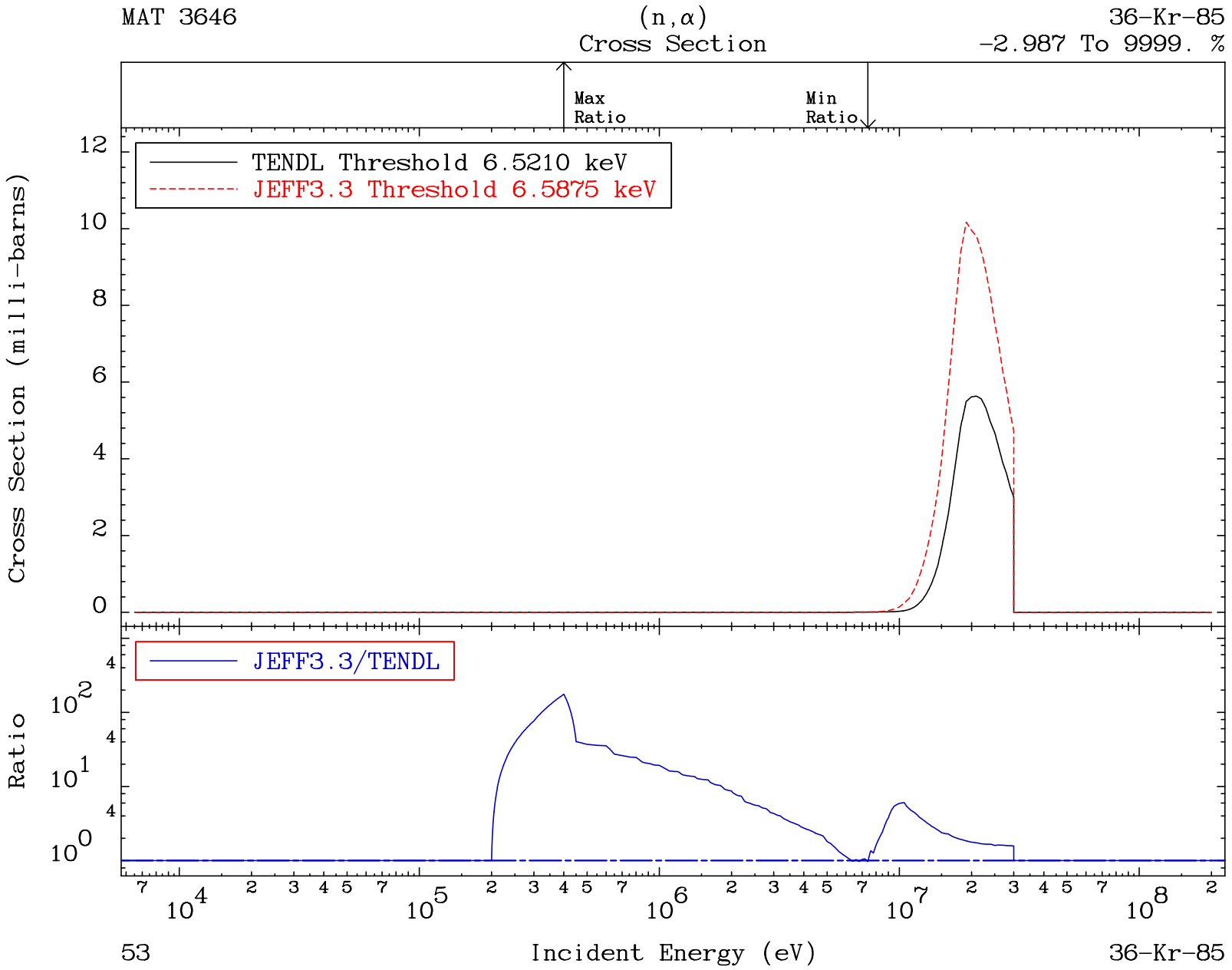

MAT 3646
(n,γ)
Cross Section
36-Kr-85
-99.86 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
48
36-Kr-85

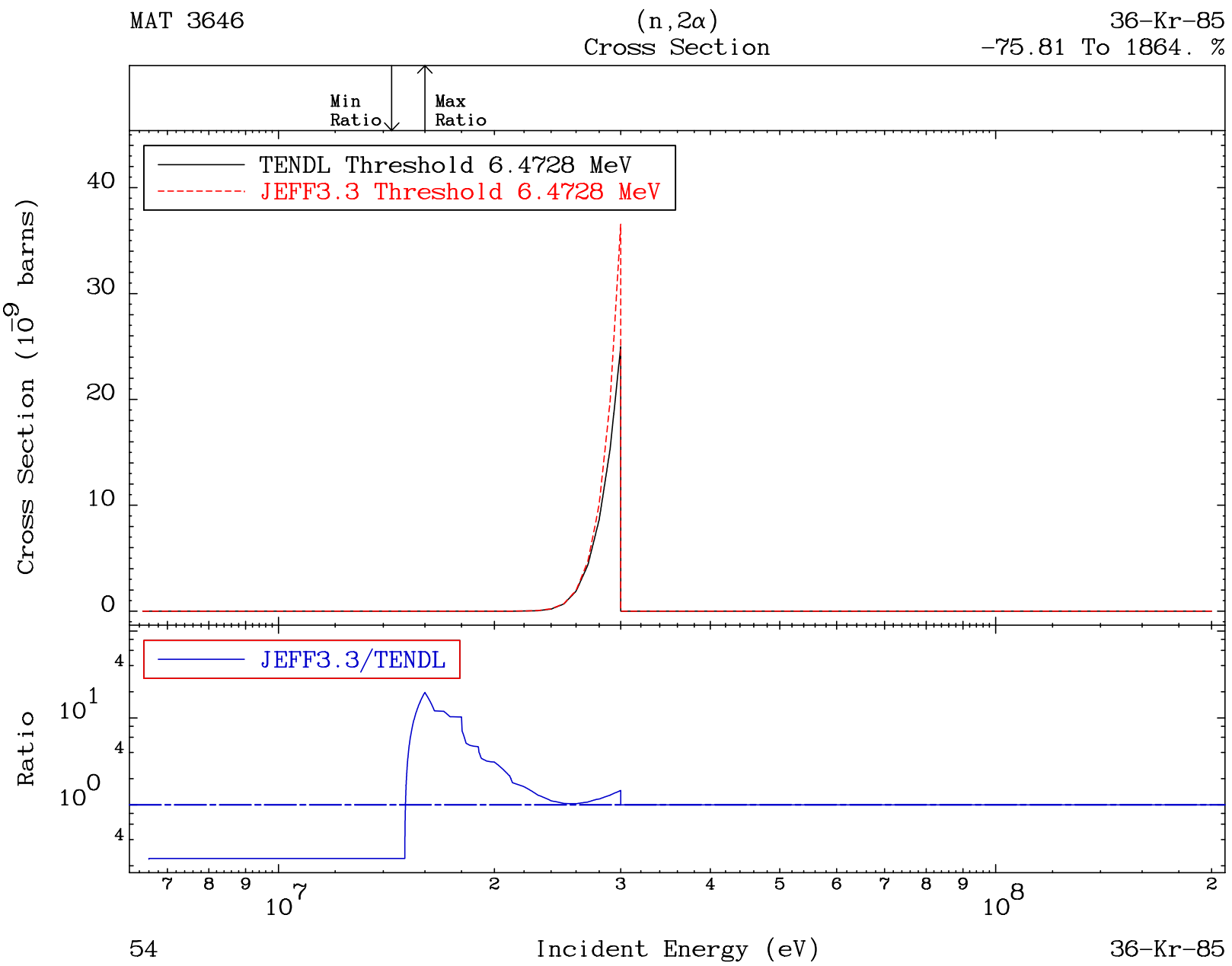

MAT 3646
(n,p)
Cross Section
36-Kr-85
-79.46 To 20.47 %
Min Ratio
Max Ratio
TENDL Threshold 2.1477 MeV
JEFF3.3 Threshold 2.1477 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.2
0.8
0.4
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
49
Incident Energy (eV)
36-Kr-85

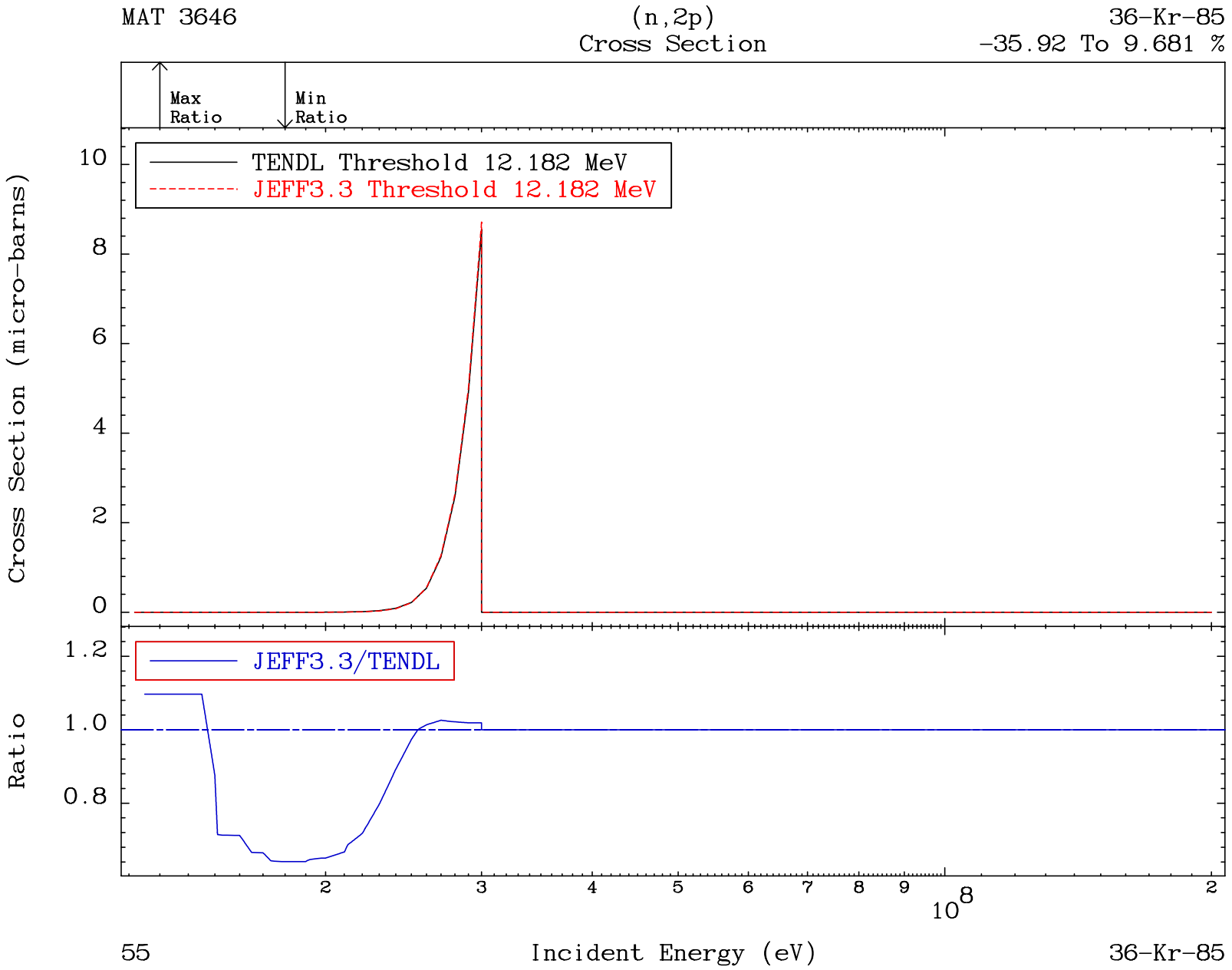

MAT 3646
(n,d)
Cross Section
36-Kr-85
-8.139 To 8.788 %
Max Ratio
Min Ratio
TENDL Threshold 8.8657 MeV
JEFF3.3 Threshold 8.8657 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.10
1.00
9
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
36-Kr-85

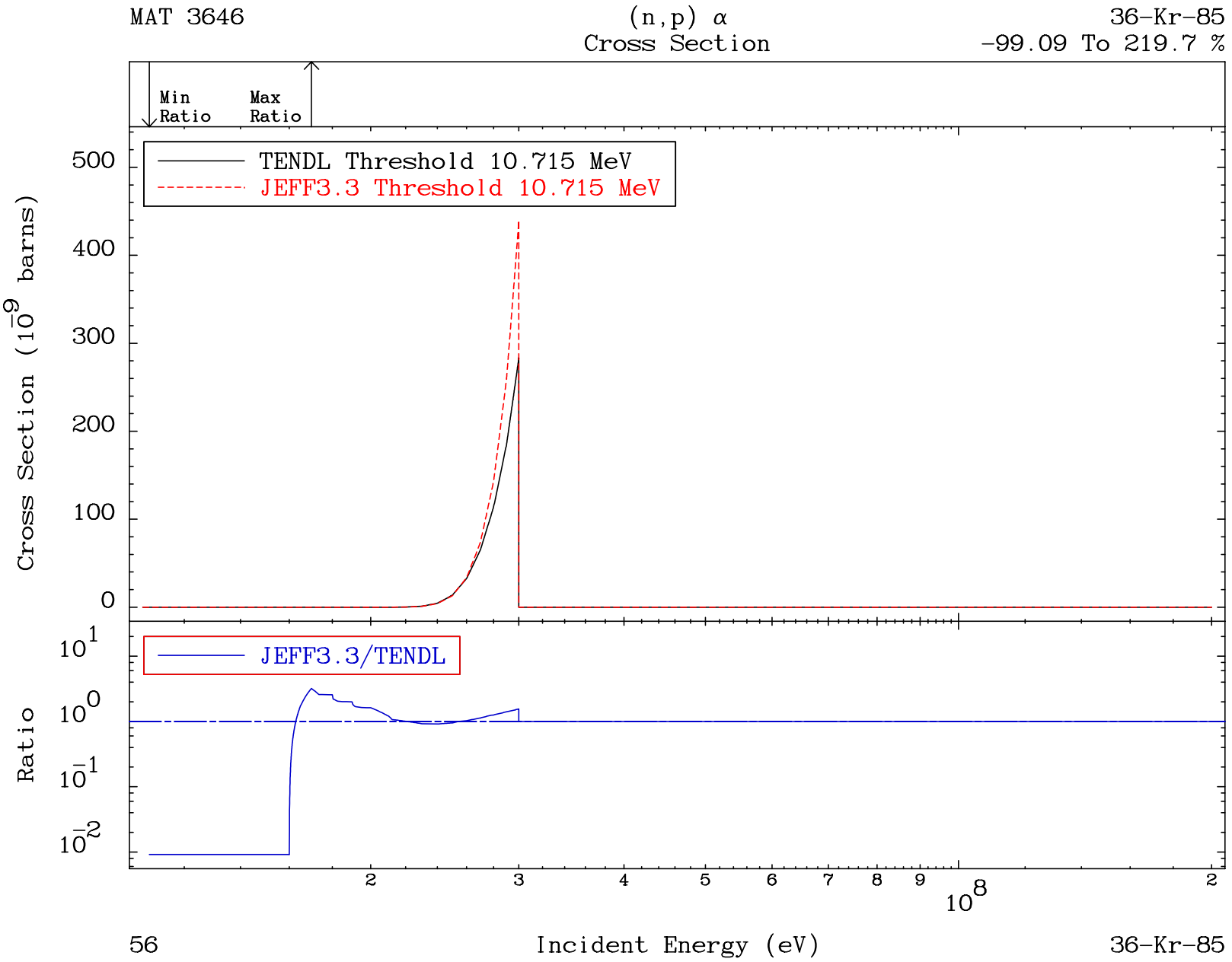

MAT 3646
(n,t)
Cross Section
36-Kr-85
-63.04 To 2861. %
Min Ratio
Max Ratio
TENDL Threshold 9.4561 MeV
JEFF3.3 Threshold 9.4561 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
36-Kr-85

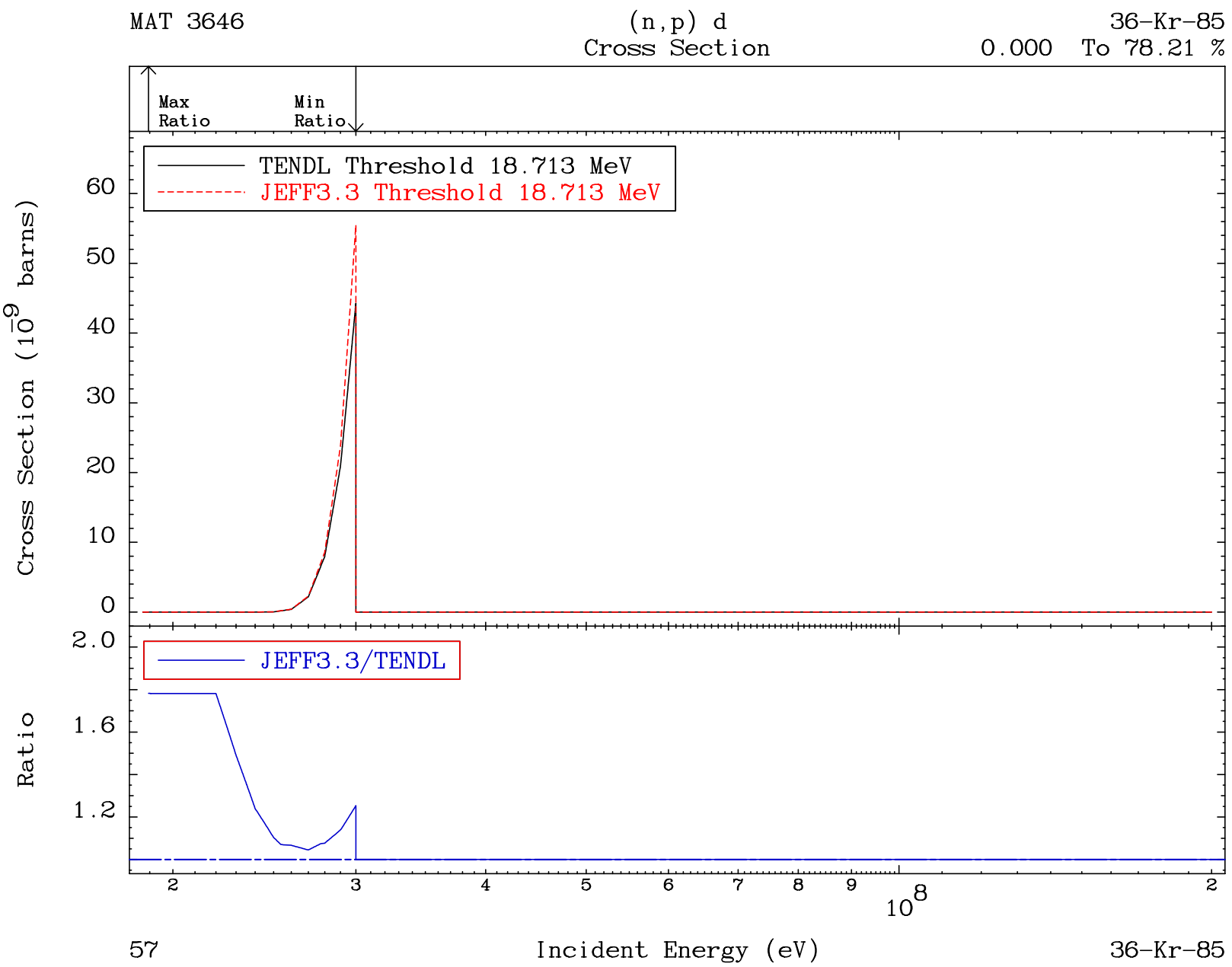

MAT 3646
(n,He-3)
Cross Section
36-Kr-85
0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.154 MeV
JEFF3.3 Threshold 13.154 MeV
Cross Section (micro-barns)
700
600
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
36-Kr-85

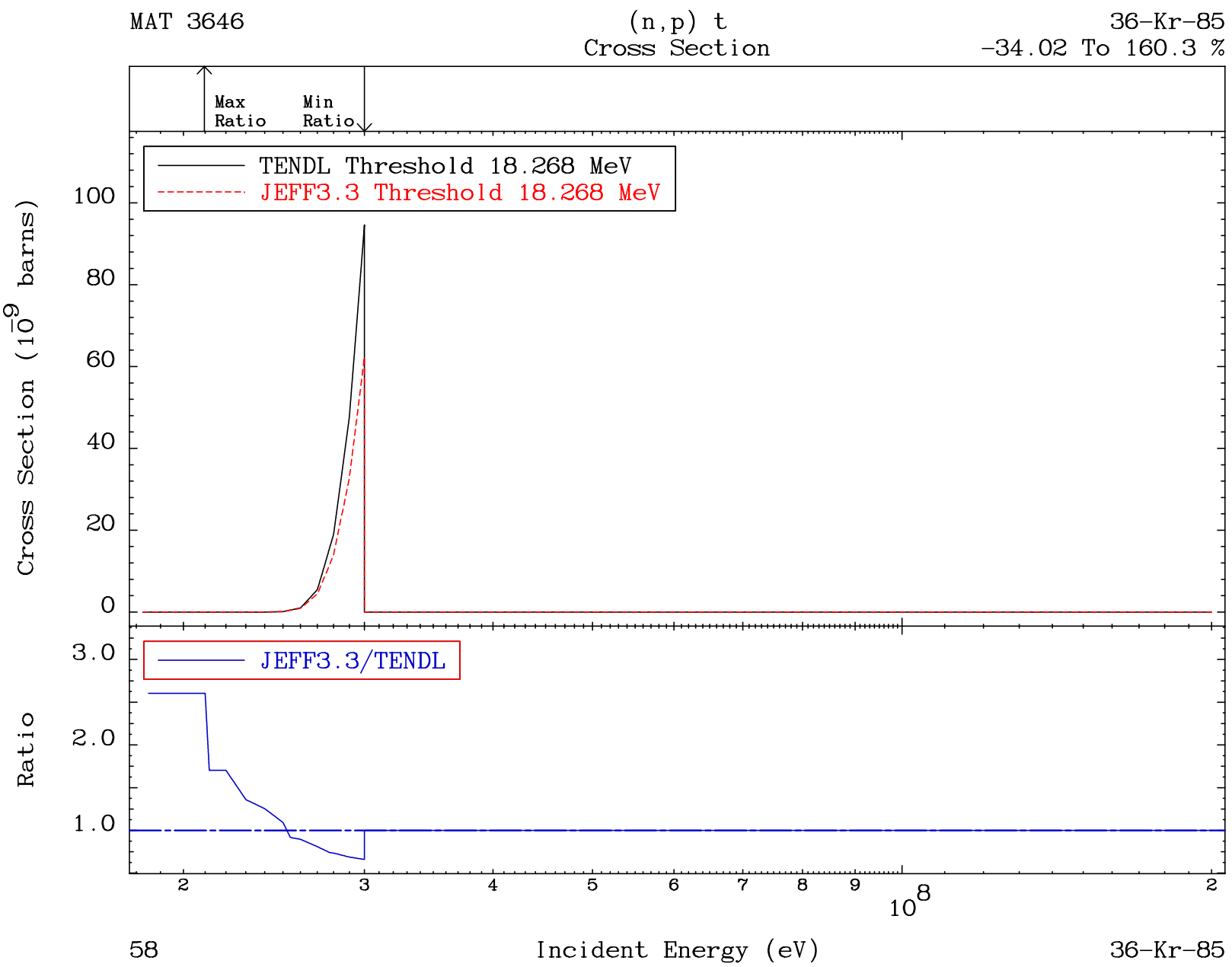

MAT 3646
(n,α)
Cross Section
36-Kr-85
-2.987 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.5210 keV
JEFF3.3 Threshold 6.5875 keV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
53
36-Kr-85

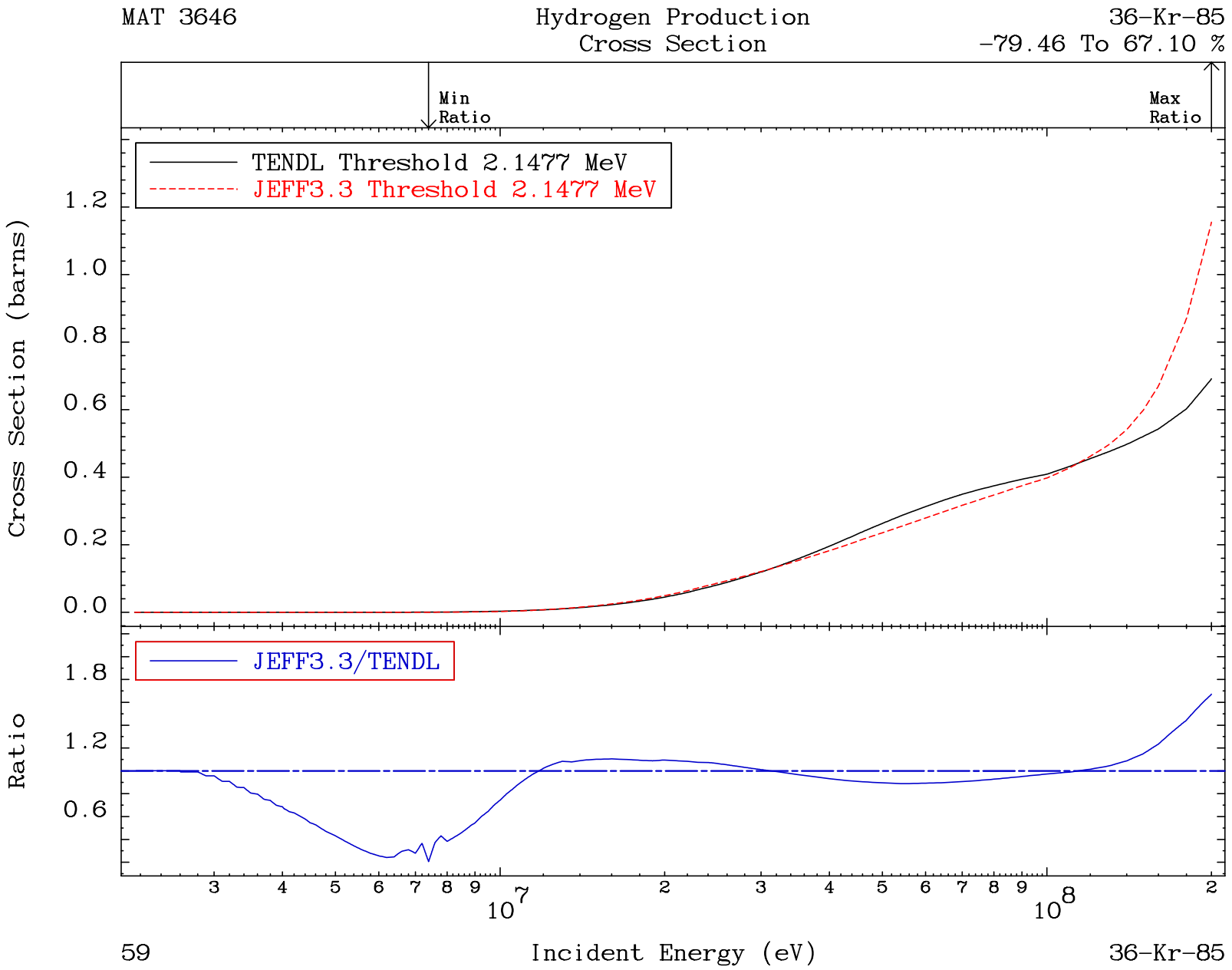

MAT 3646
(n,2α)
Cross Section
36-Kr-85
-75.81 To 1864. %
Min Ratio
Max Ratio
TENDL Threshold 6.4728 MeV
JEFF3.3 Threshold 6.4728 MeV
Cross Section (10^{-9} barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
54
36-Kr-85

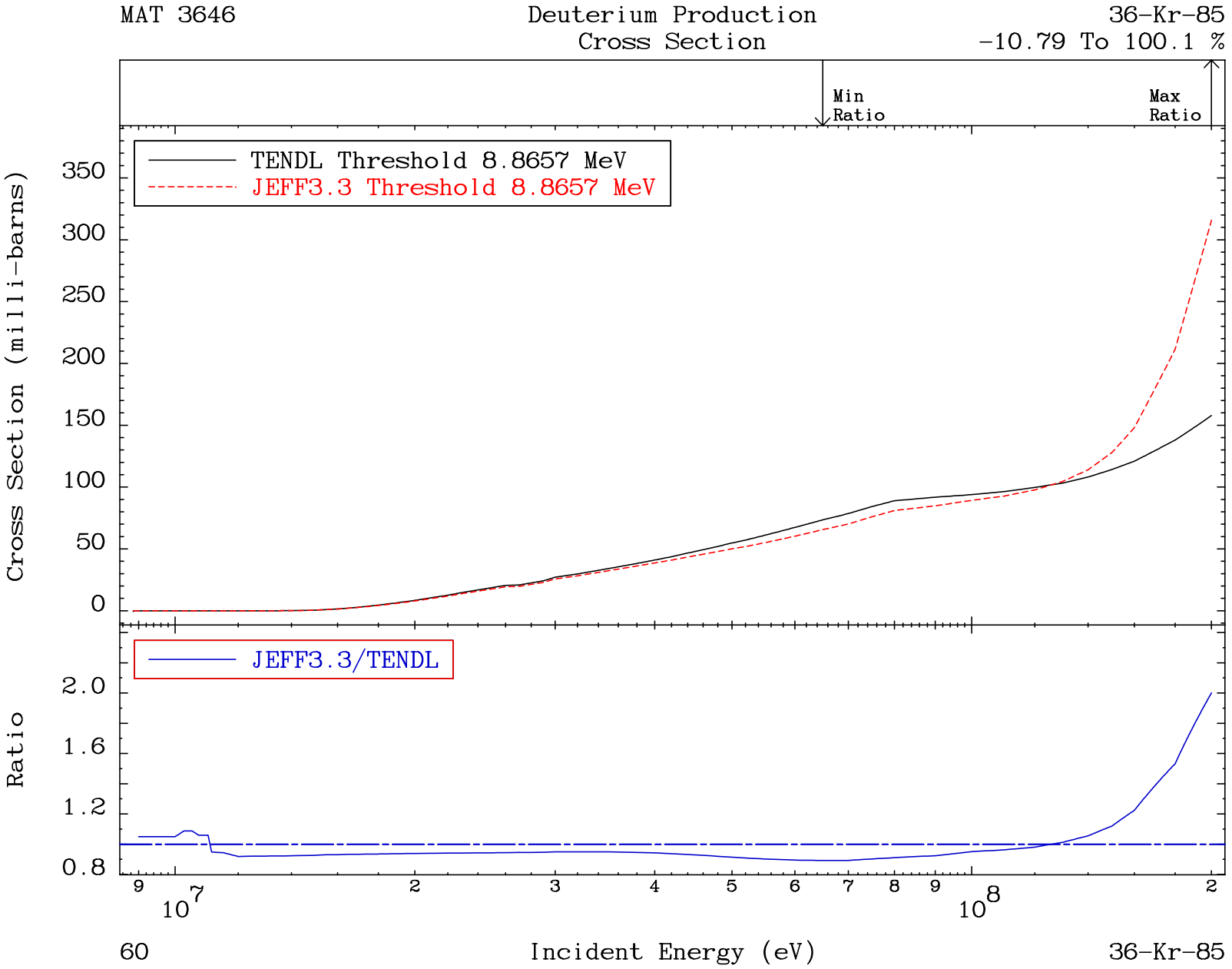

MAT 3646
(n,2p)
Cross Section
36-Kr-85
-35.92 To 9.681 %
Max Ratio
Min Ratio
TENDL Threshold 12.182 MeV
JEFF3.3 Threshold 12.182 MeV
Cross Section (micro-barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
36-Kr-85

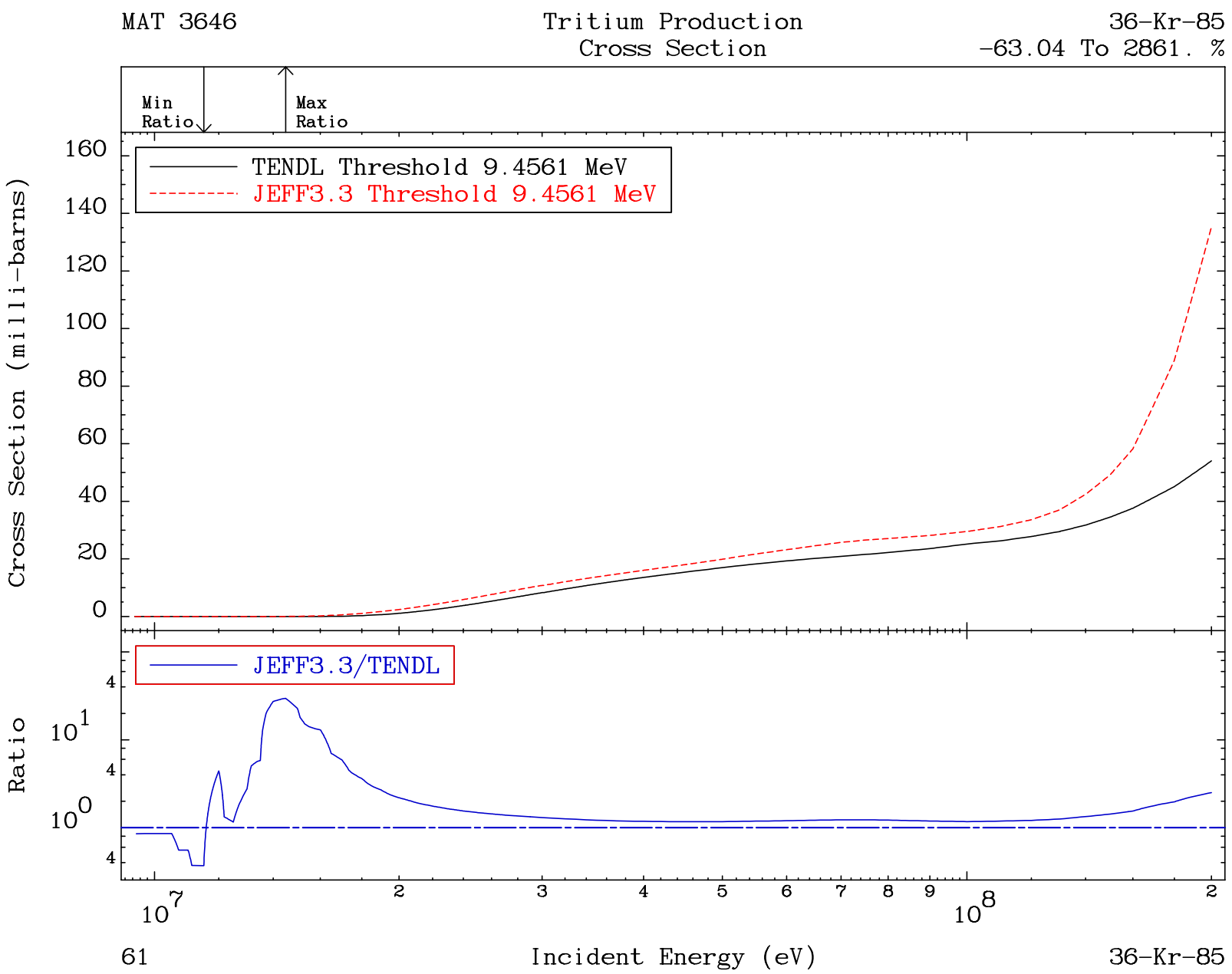

MAT 3646
(n,p) α
Cross Section
36-Kr-85
-99.09 To 219.7 %
Min Ratio
Max Ratio
TENDL Threshold 10.715 MeV
JEFF3.3 Threshold 10.715 MeV
Cross Section (10^{-9} barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^{1}
10^{0}
10^{-1}
10^{-2}
2
3
4
5
6
7
8
9
10^{8}
2
56
Incident Energy (eV)
36-Kr-85

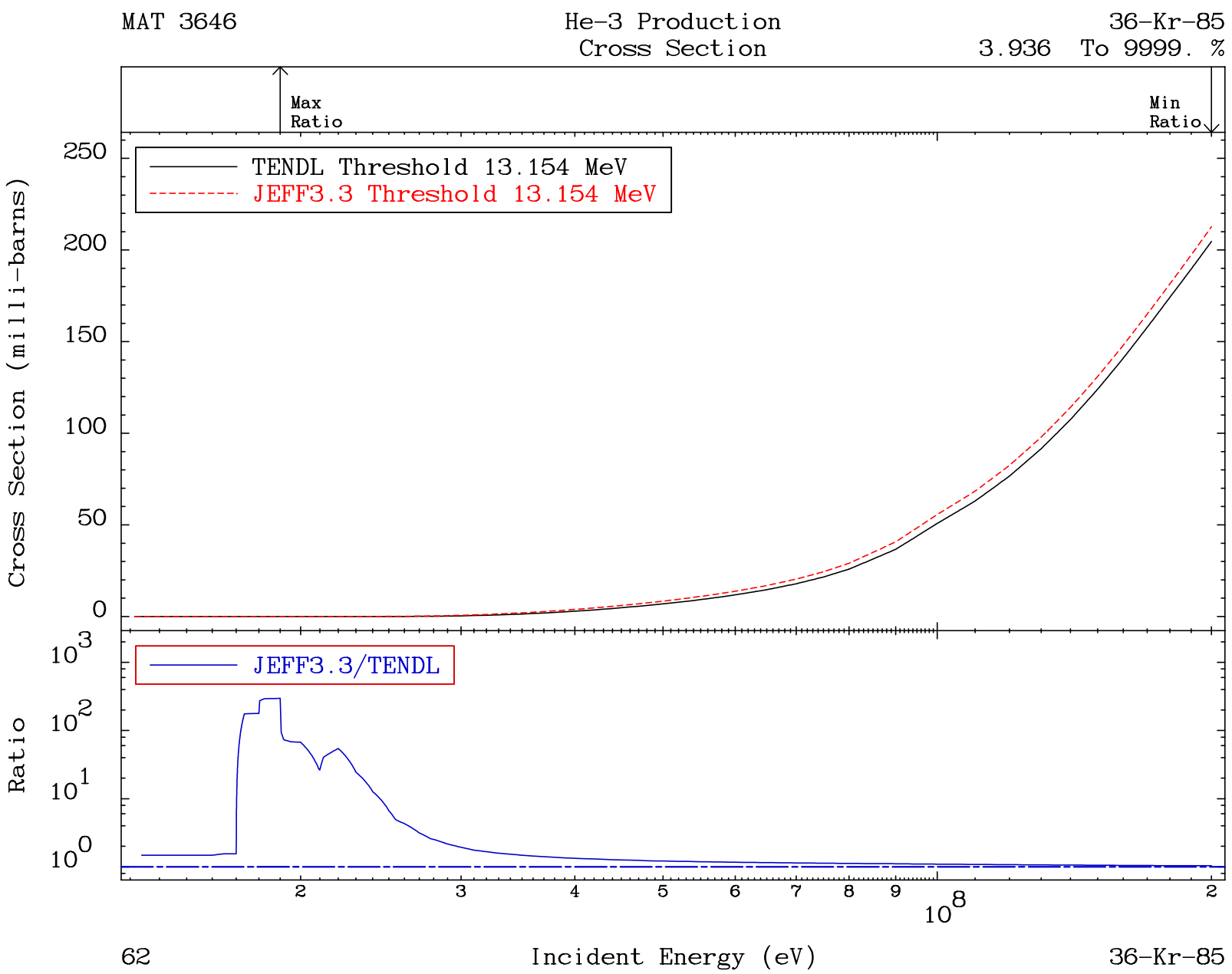

MAT 3646
(n,p) d
Cross Section
36-Kr-85
0.000 To 78.21 %
Max Ratio
Min Ratio
TENDL Threshold 18.713 MeV
JEFF3.3 Threshold 18.713 MeV
Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
57
Incident Energy (eV)
36-Kr-85

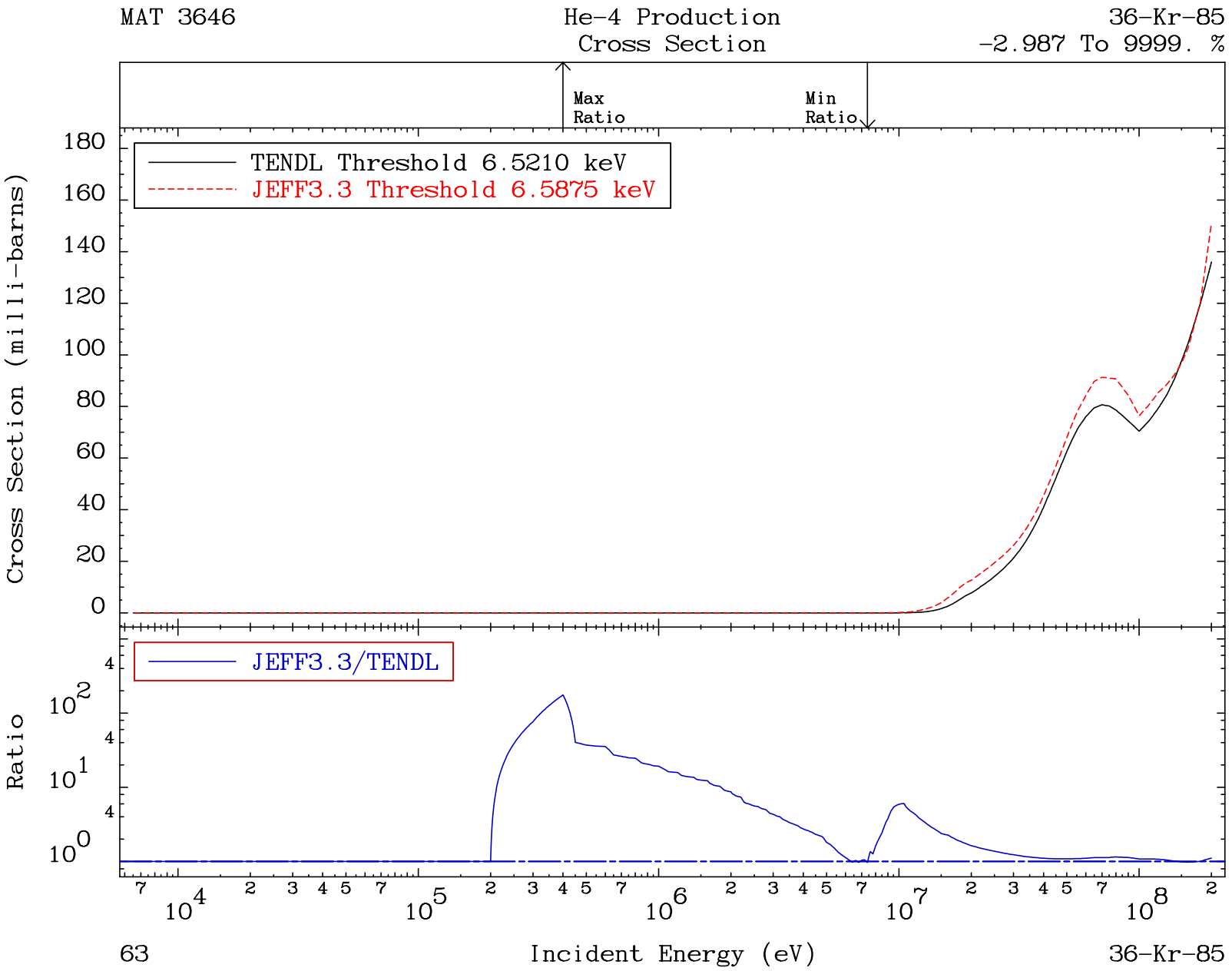

MAT 3646
(n,p) t
Cross Section
36-Kr-85
-34.02 To 160.3 %
Max Ratio
Min Ratio
TENDL Threshold 18.268 MeV
JEFF3.3 Threshold 18.268 MeV
Cross Section (10^{-9} barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
36-Kr-85

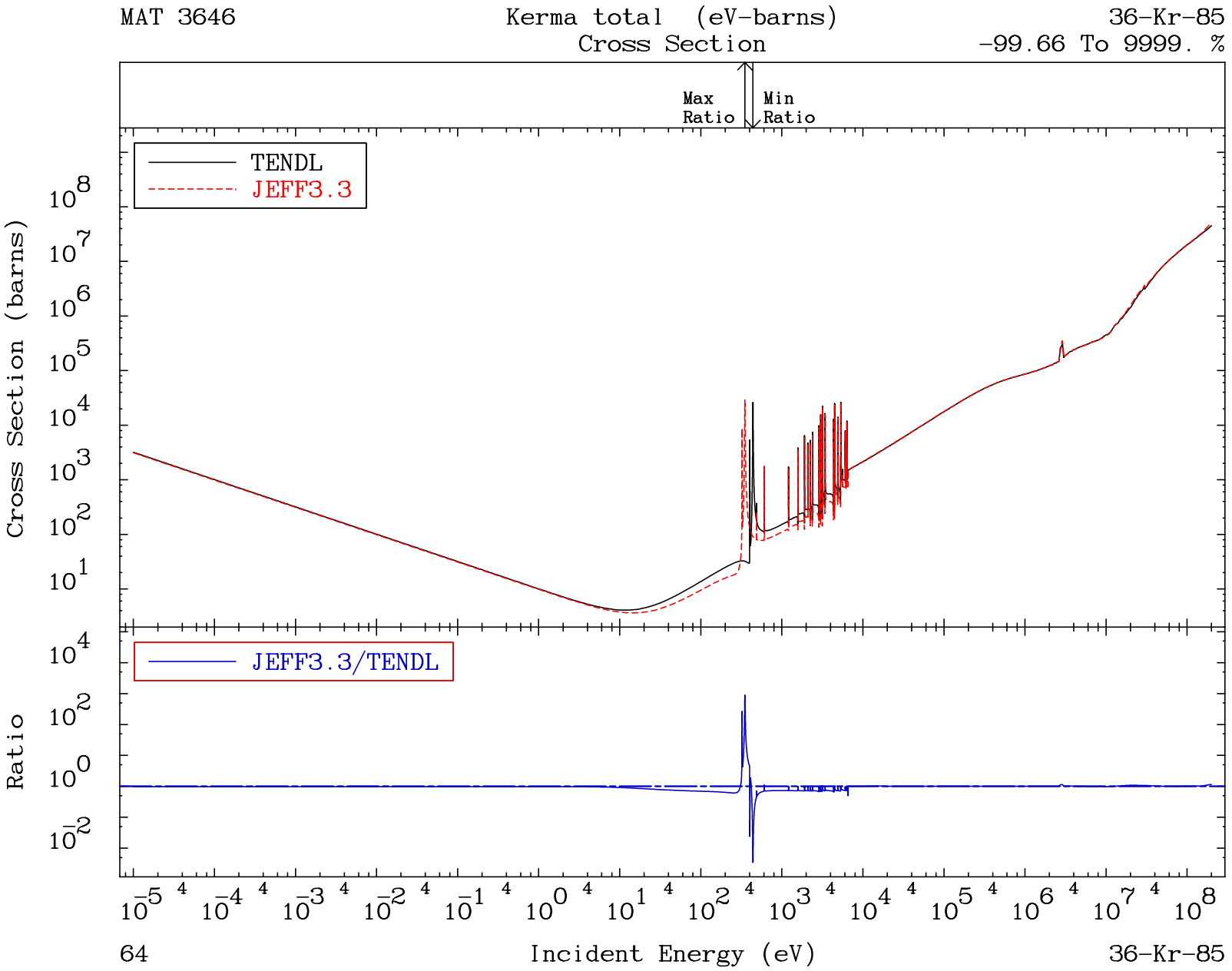

MAT 3646
Hydrogen Production
Cross Section
36-Kr-85
-79.46 To 67.10 %
Min Ratio
Max Ratio
TENDL Threshold 2.1477 MeV
JEFF3.3 Threshold 2.1477 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.8
1.2
0.6
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
59
Incident Energy (eV)
36-Kr-85

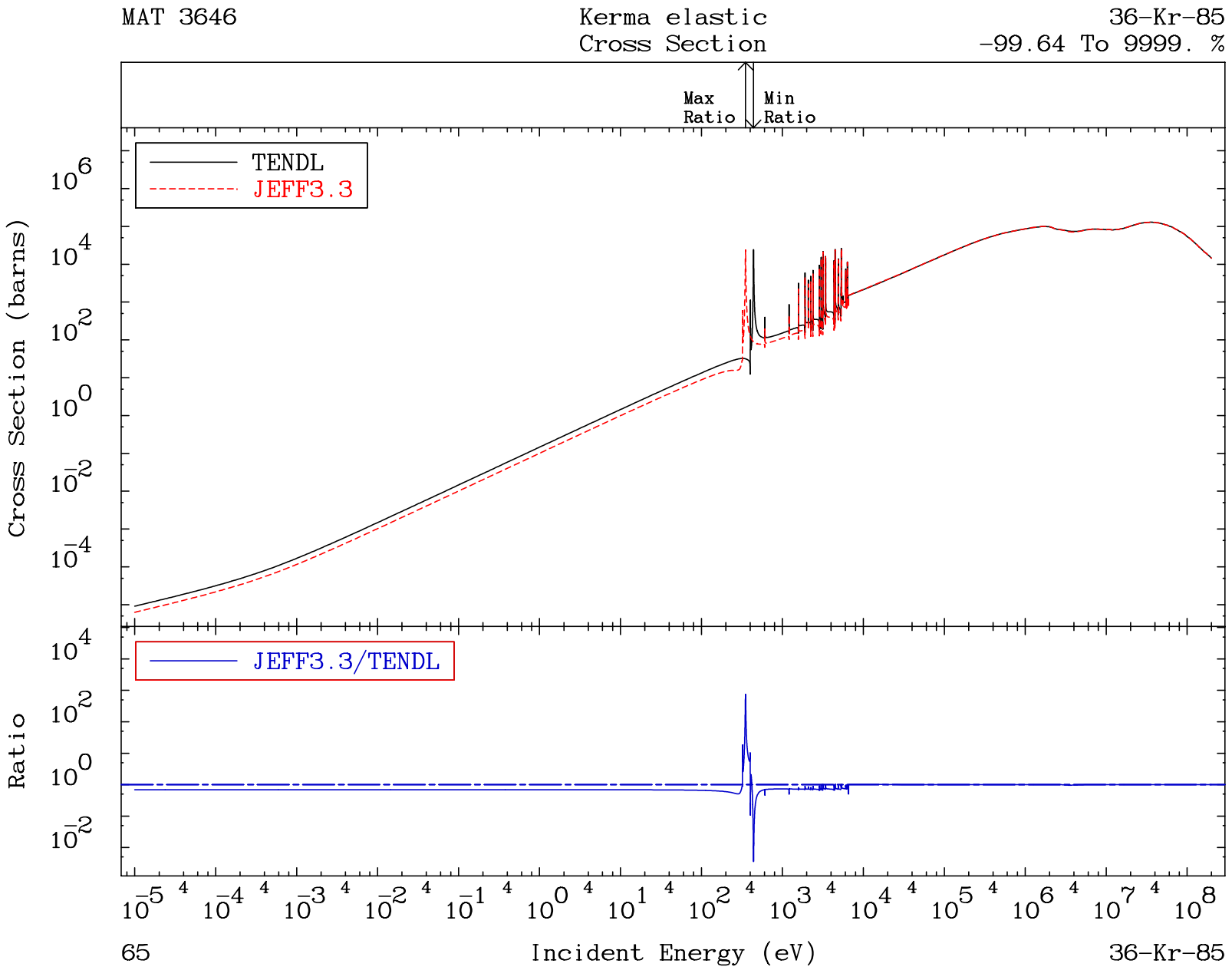

MAT 3646
Deuterium Production
Cross Section
36-Kr-85
-10.79 To 100.1 %
Min
Ratio
Max
Ratio
TENDL Threshold 8.8657 MeV
JEFF3.3 Threshold 8.8657 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
0.8
9
10^7
2
3
4
5
6
7
8
9
10^8
2
60
Incident Energy (eV)
36-Kr-85

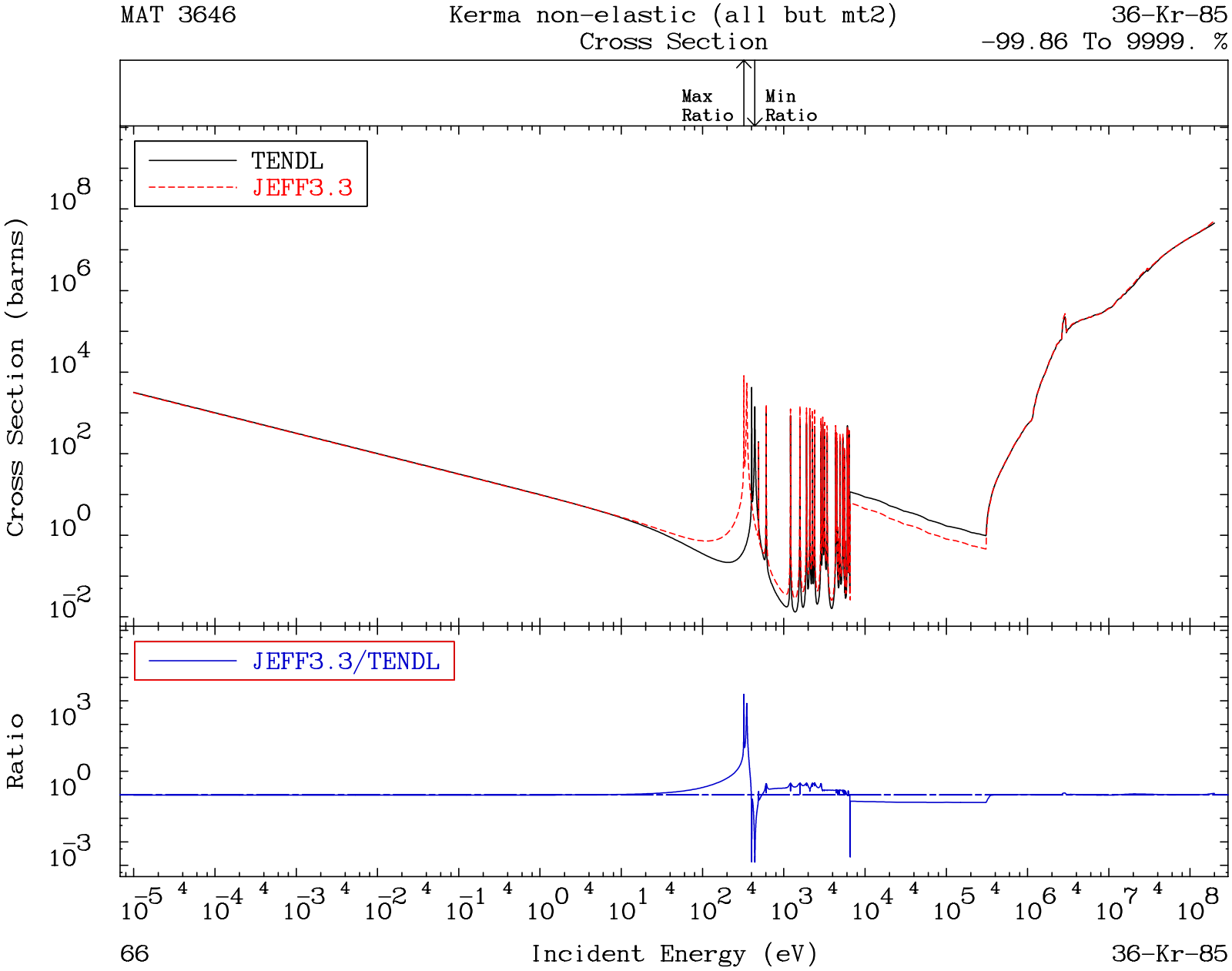

MAT 3646
Tritium Production
Cross Section
36-Kr-85
-63.04 To 2861. %
Min Ratio
Max Ratio
TENDL Threshold 9.4561 MeV
JEFF3.3 Threshold 9.4561 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^1
10^0
4
4
4
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
36-Kr-85

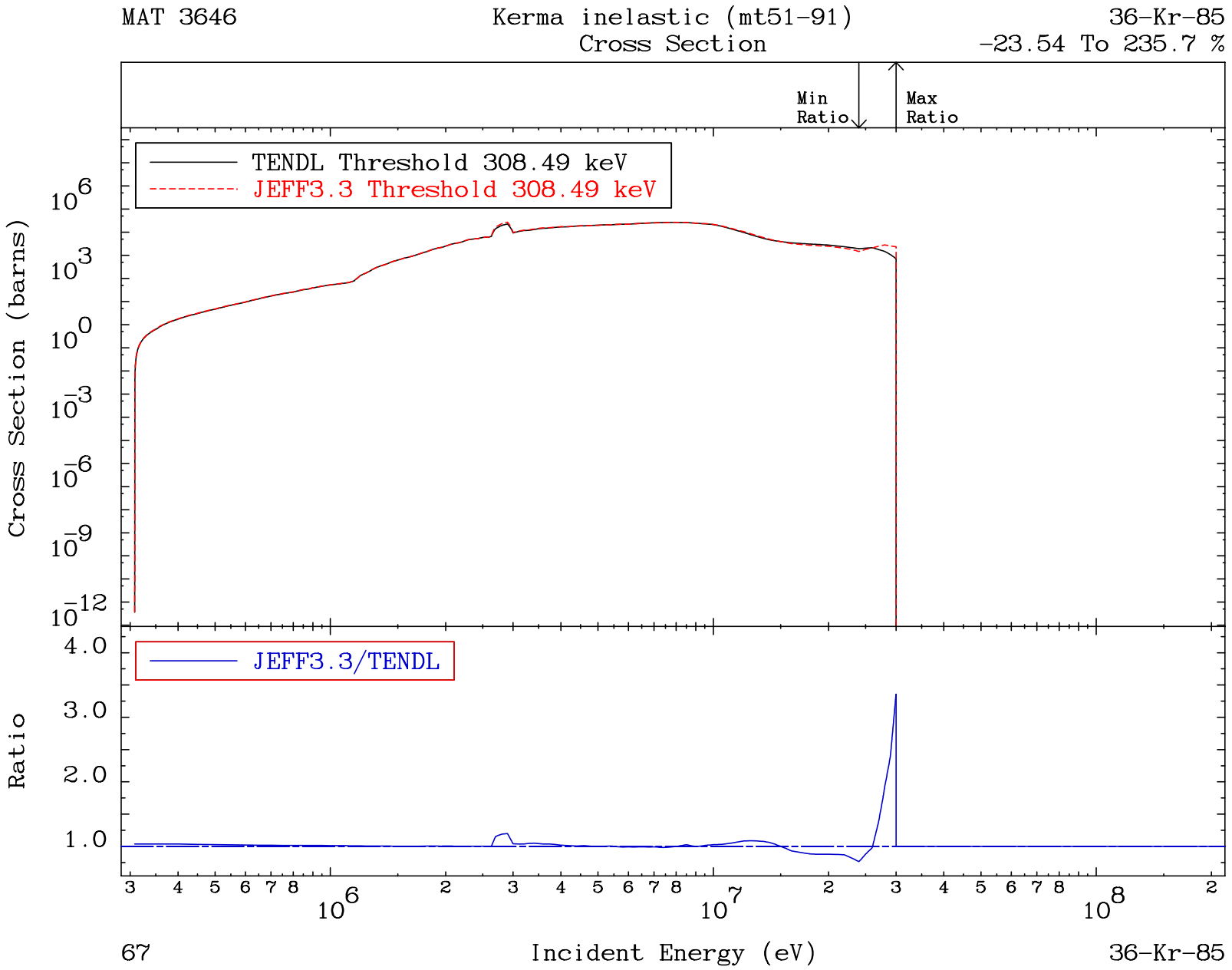

MAT 3646
He-3 Production
Cross Section
36-Kr-85
3.936 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.154 MeV
JEFF3.3 Threshold 13.154 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
36-Kr-85

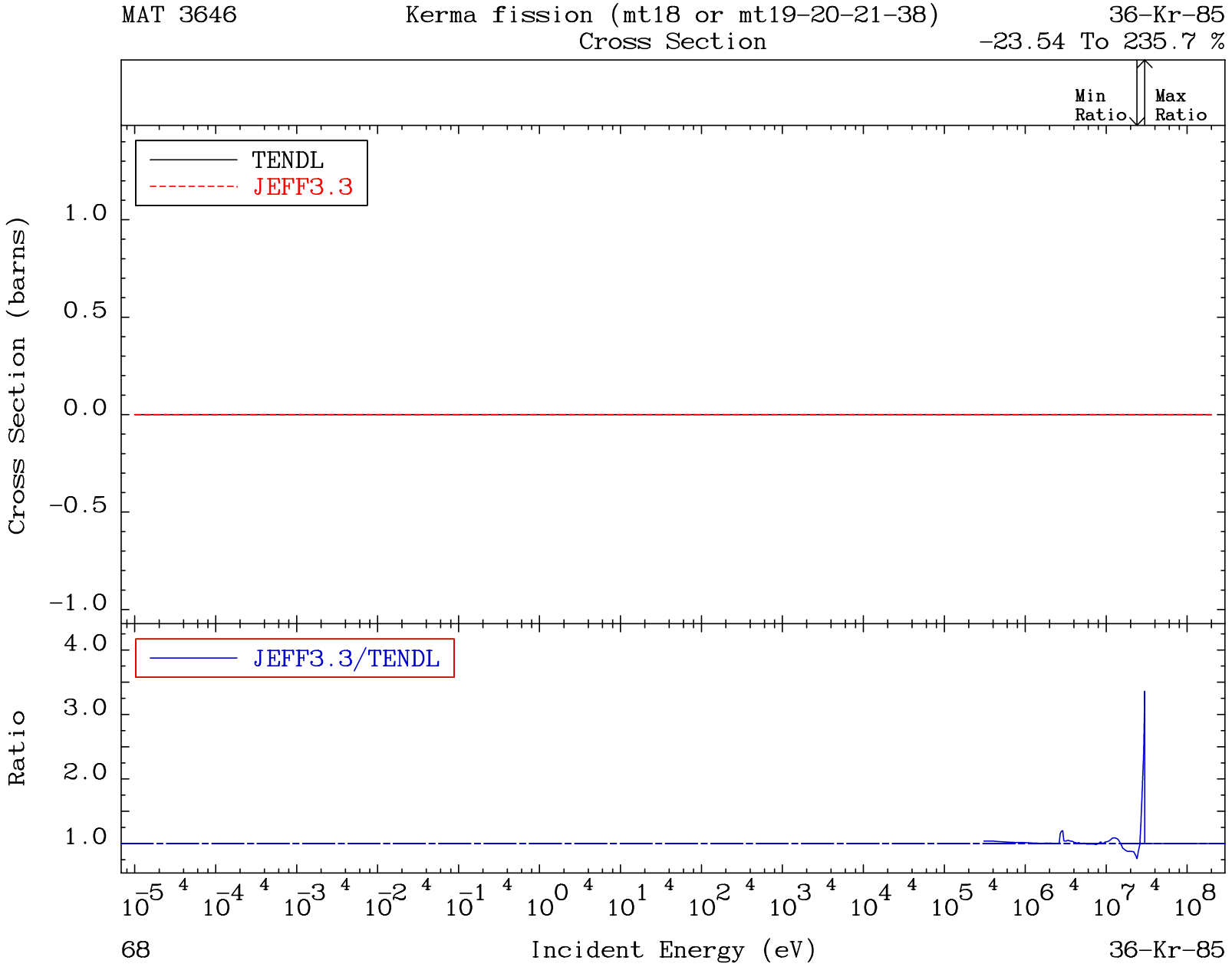

MAT 3646
He-4 Production
Cross Section
36-Kr-85
-2.987 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 6.5210 keV
JEFF3.3 Threshold 6.5875 keV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
4
10^2
4
10^1
4
10^0
7
10^4
2 3 4 5 7
10^5
2 3 4 5 7
10^6
2 3 4 5 7
10^7
2 3 4 5 7
10^8
2
63
Incident Energy (eV)
36-Kr-85

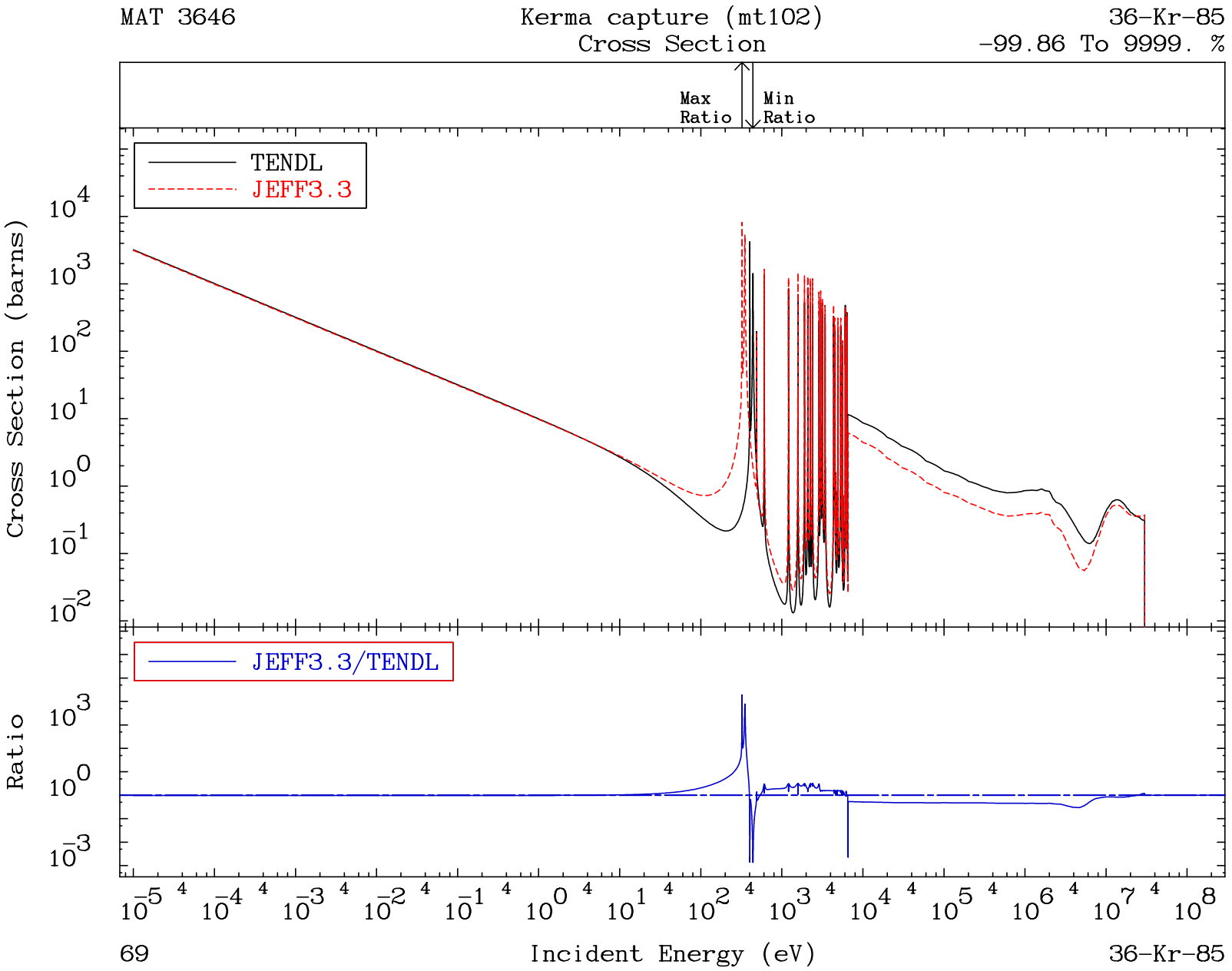

MAT 3646
Kerma total (eV-barns)
Cross Section
36-Kr-85
-99.66 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
36-Kr-85

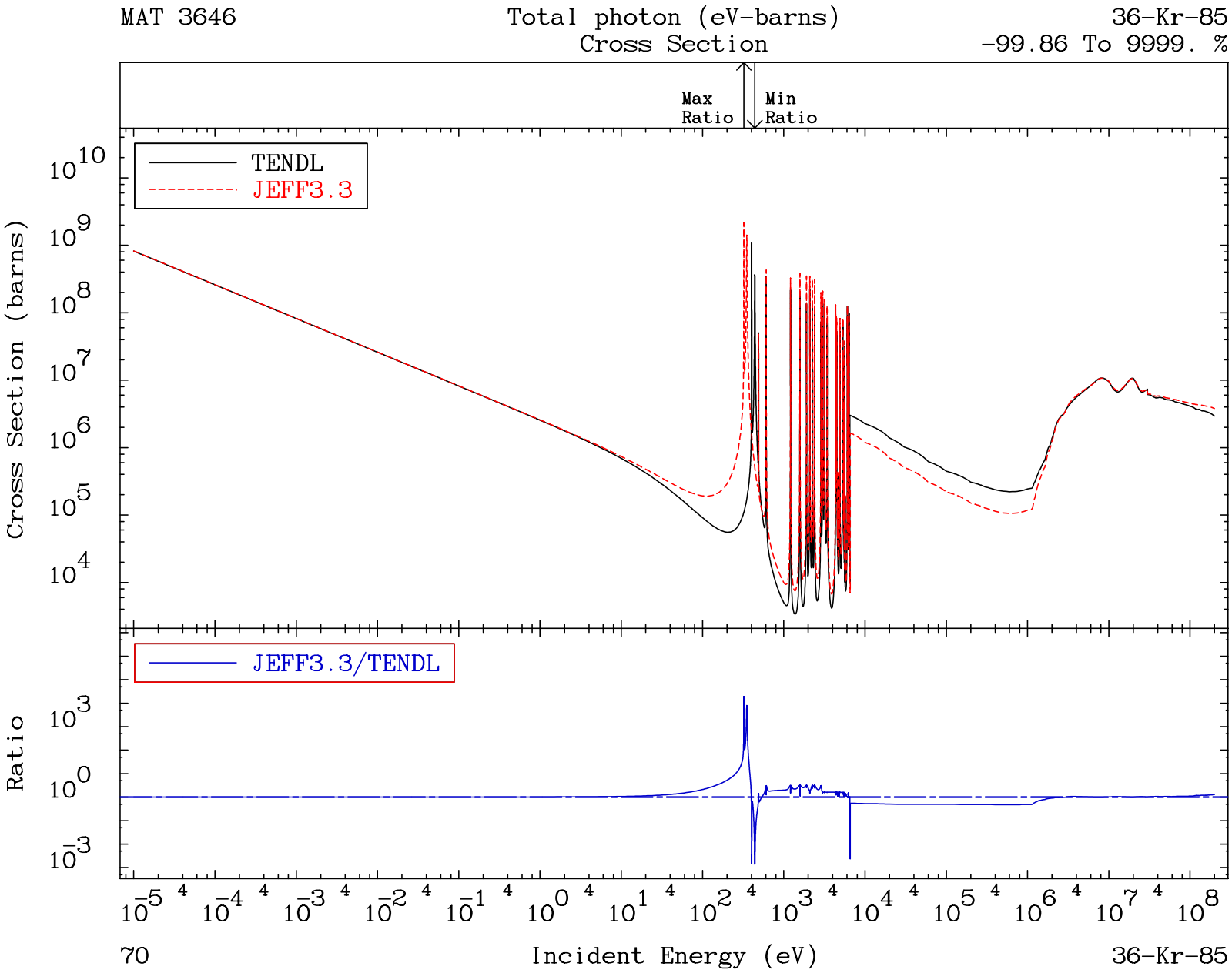

MAT 3646
Kerma elastic
Cross Section
36-Kr-85
-99.64 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
36-Kr-85

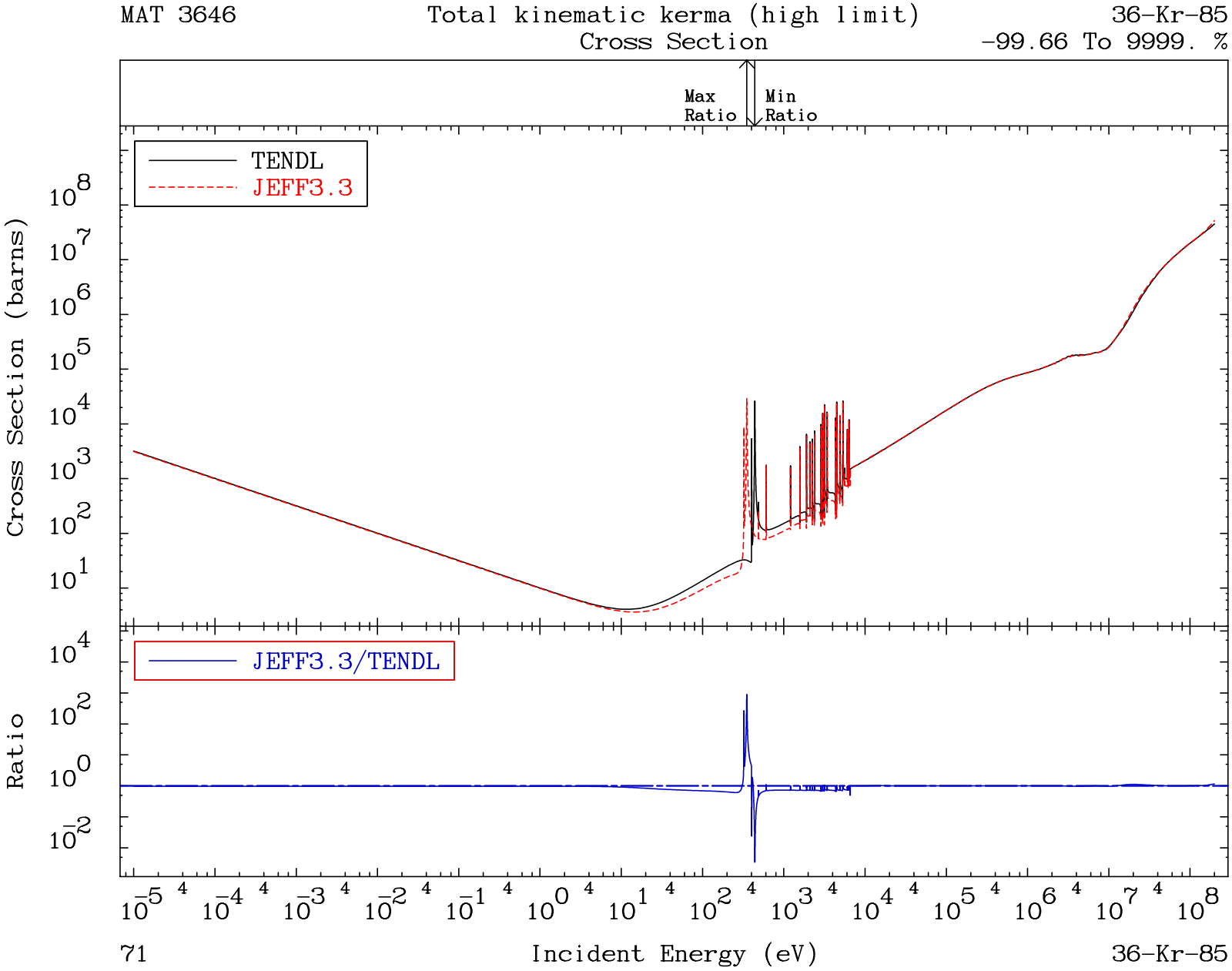

MAT 3646
Kerma non-elastic (all but mt2)
Cross Section
36-Kr-85
-99.86 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
36-Kr-85

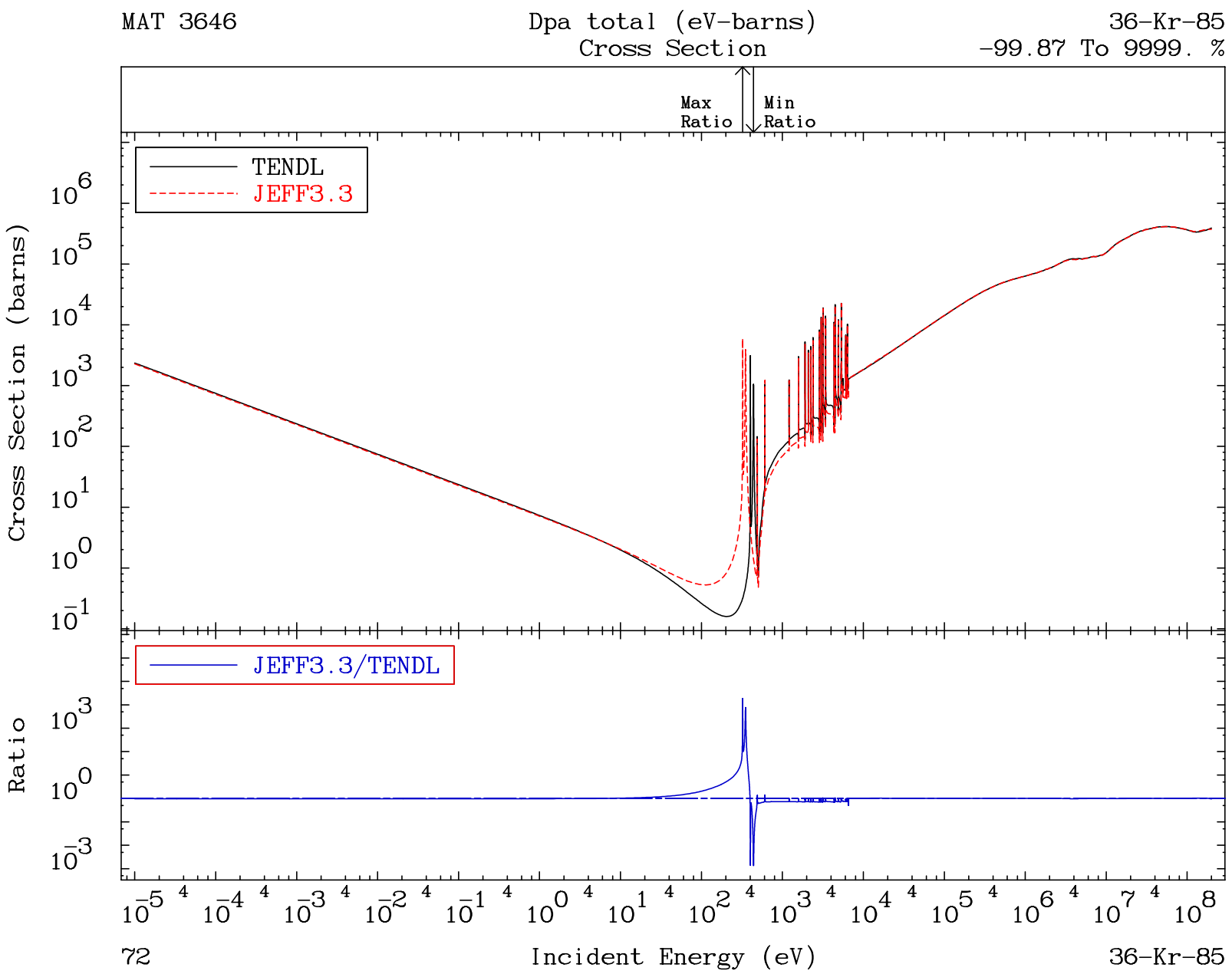

MAT 3646
Kerma inelastic (mt51-91)
Cross Section
36-Kr-85
-23.54 To 235.7 %
Min Ratio
Max Ratio
TENDL Threshold 308.49 keV
JEFF3.3 Threshold 308.49 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
67
36-Kr-85

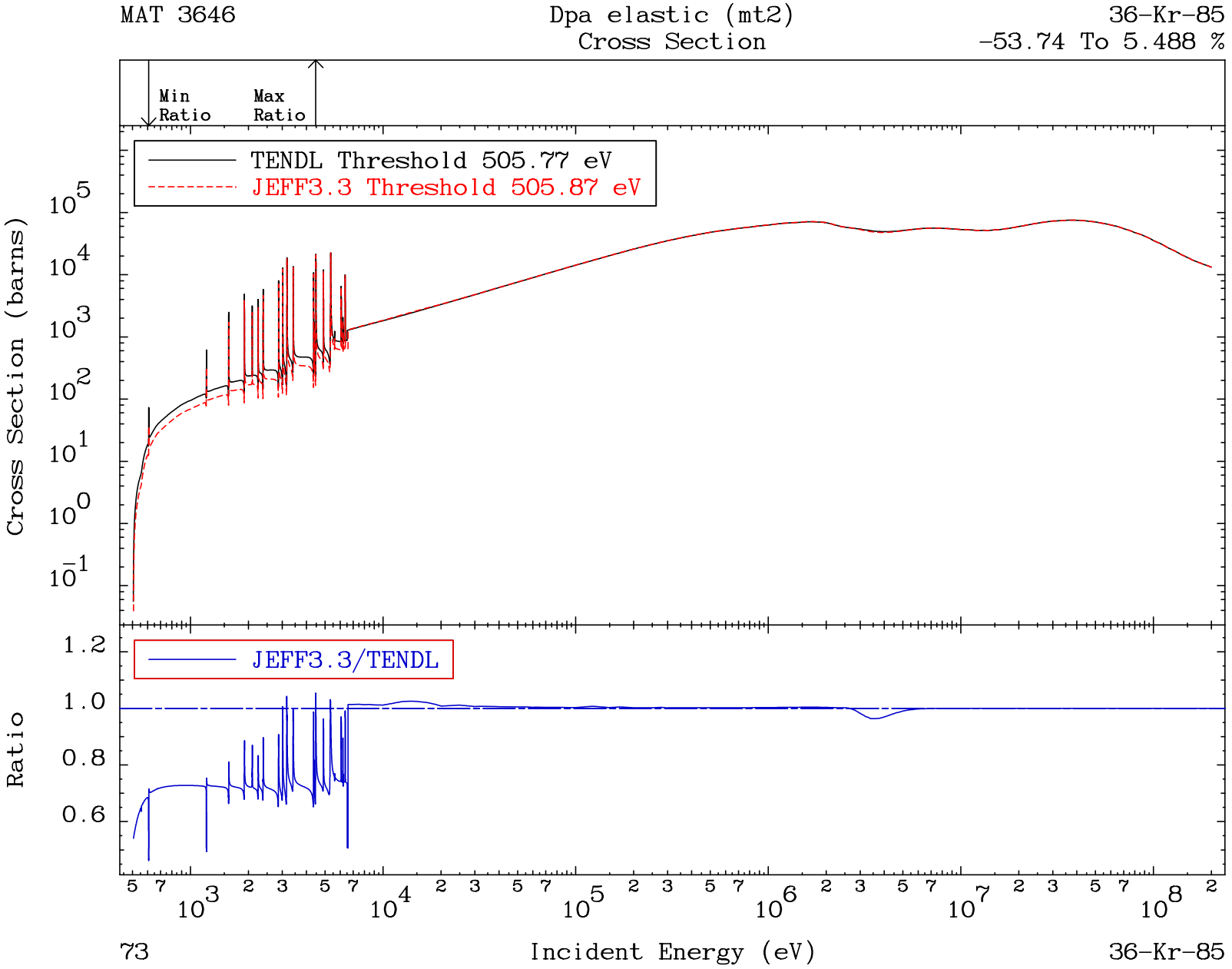

MAT 3646
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
36-Kr-85
-23.54 To 235.7 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
68
Incident Energy (eV)
36-Kr-85

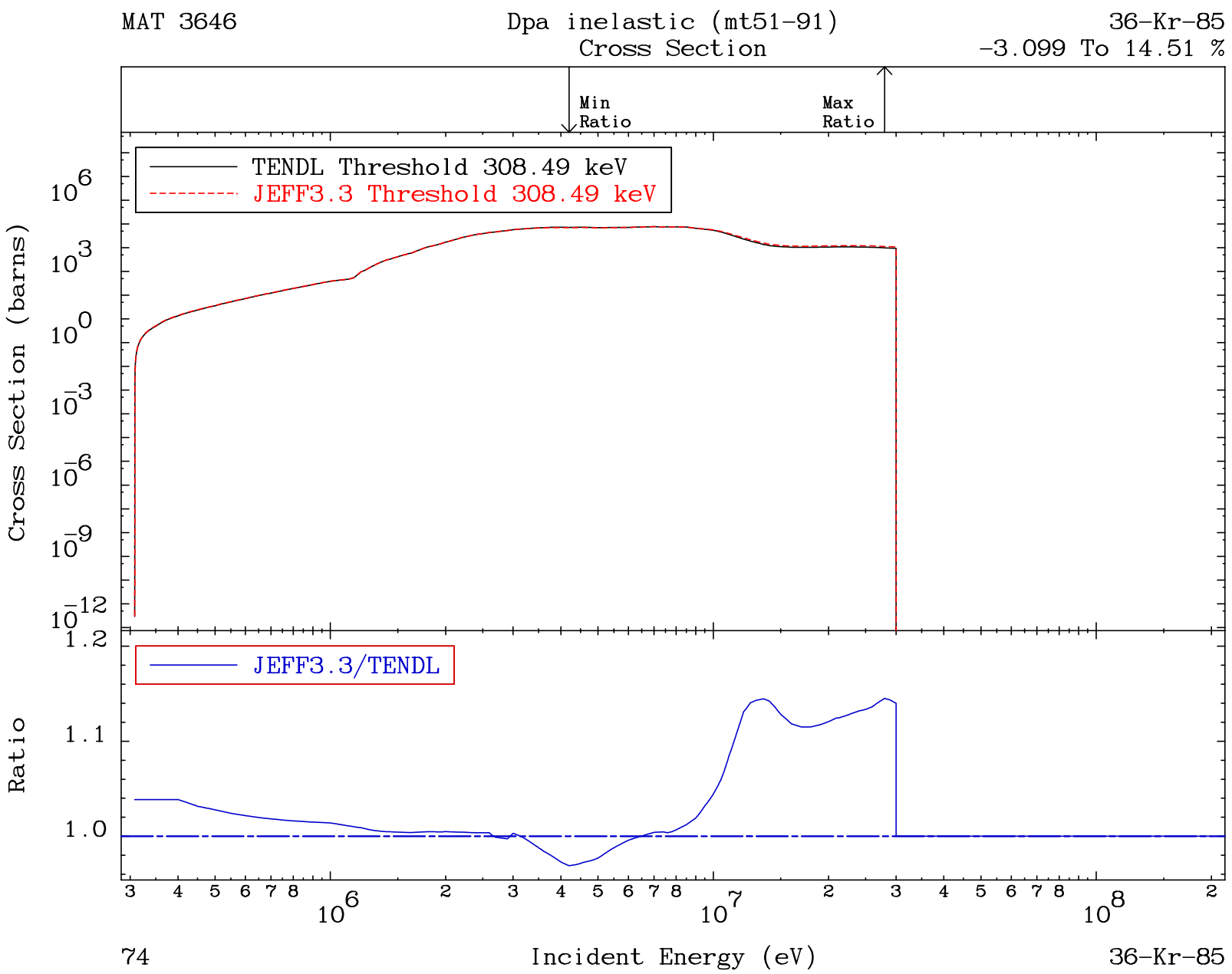

MAT 3646
Kerma capture (mt102)
Cross Section
36-Kr-85
-99.86 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
36-Kr-85

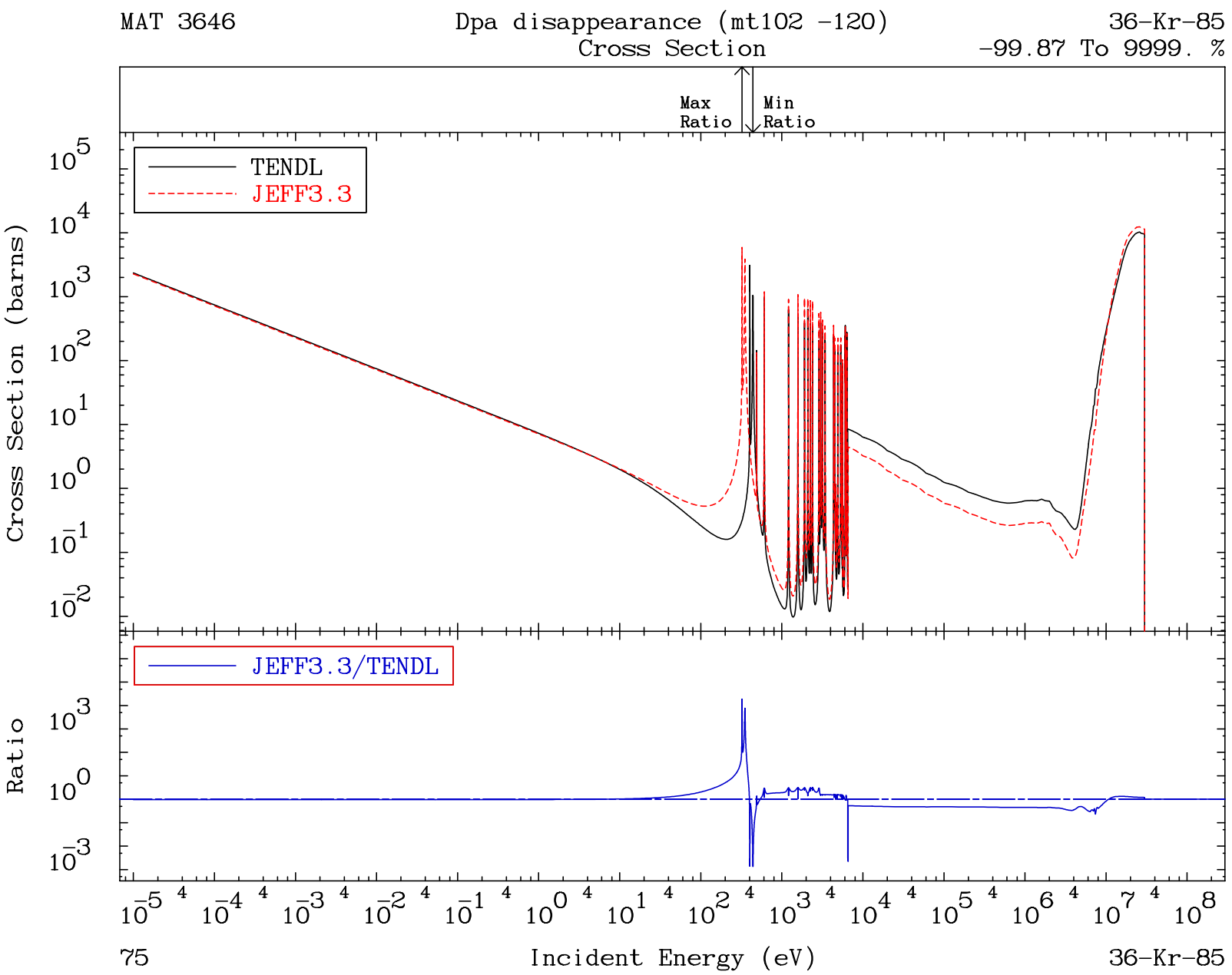

MAT 3646
Total photon (eV-barns)
Cross Section
36-Kr-85
-99.86 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
36-Kr-85

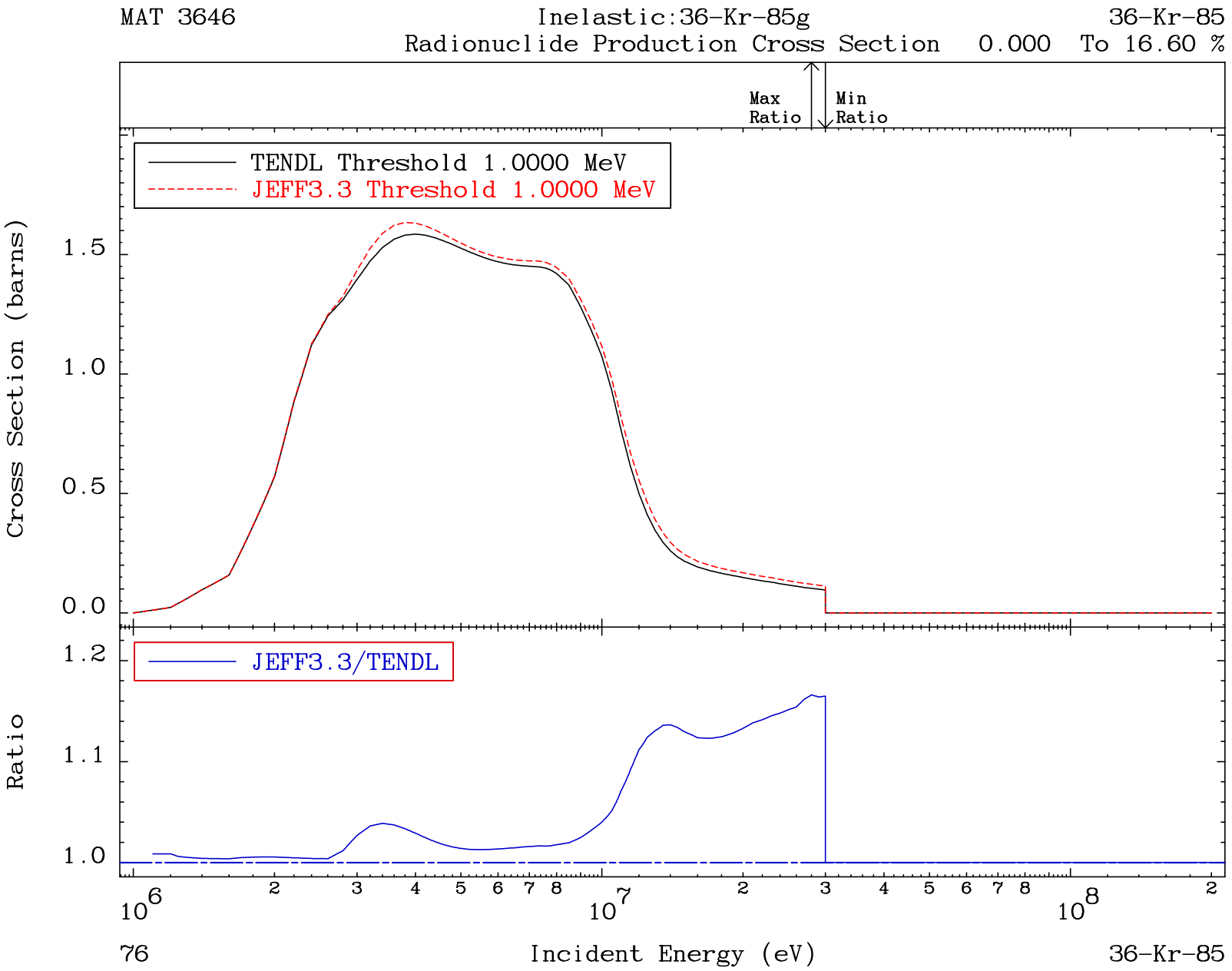

MAT 3646
Total kinematic kerma (high limit)
Cross Section
36-Kr-85
-99.66 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
36-Kr-85

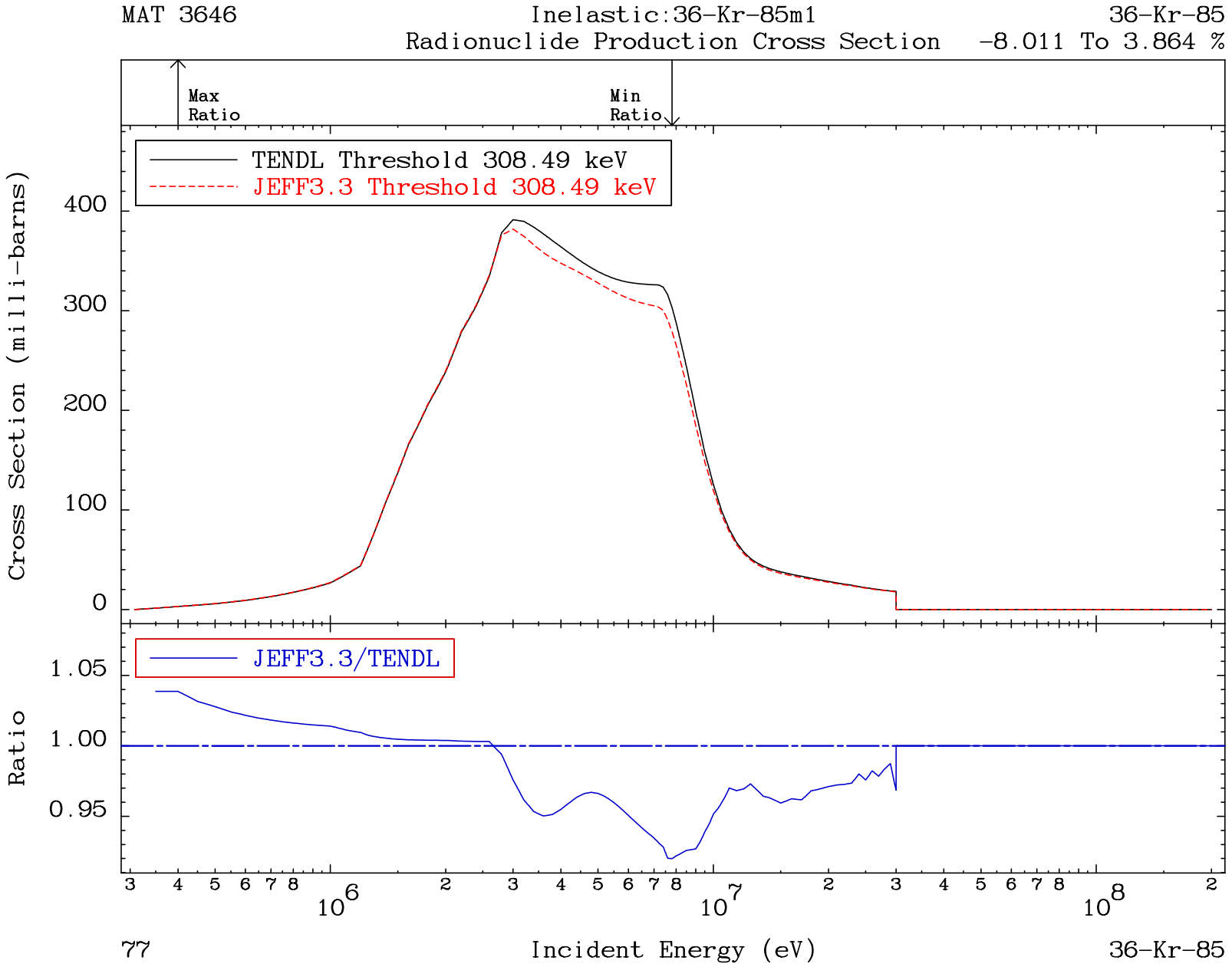

MAT 3646
Dpa total (eV-barns)
Cross Section
36-Kr-85
-99.87 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
36-Kr-85

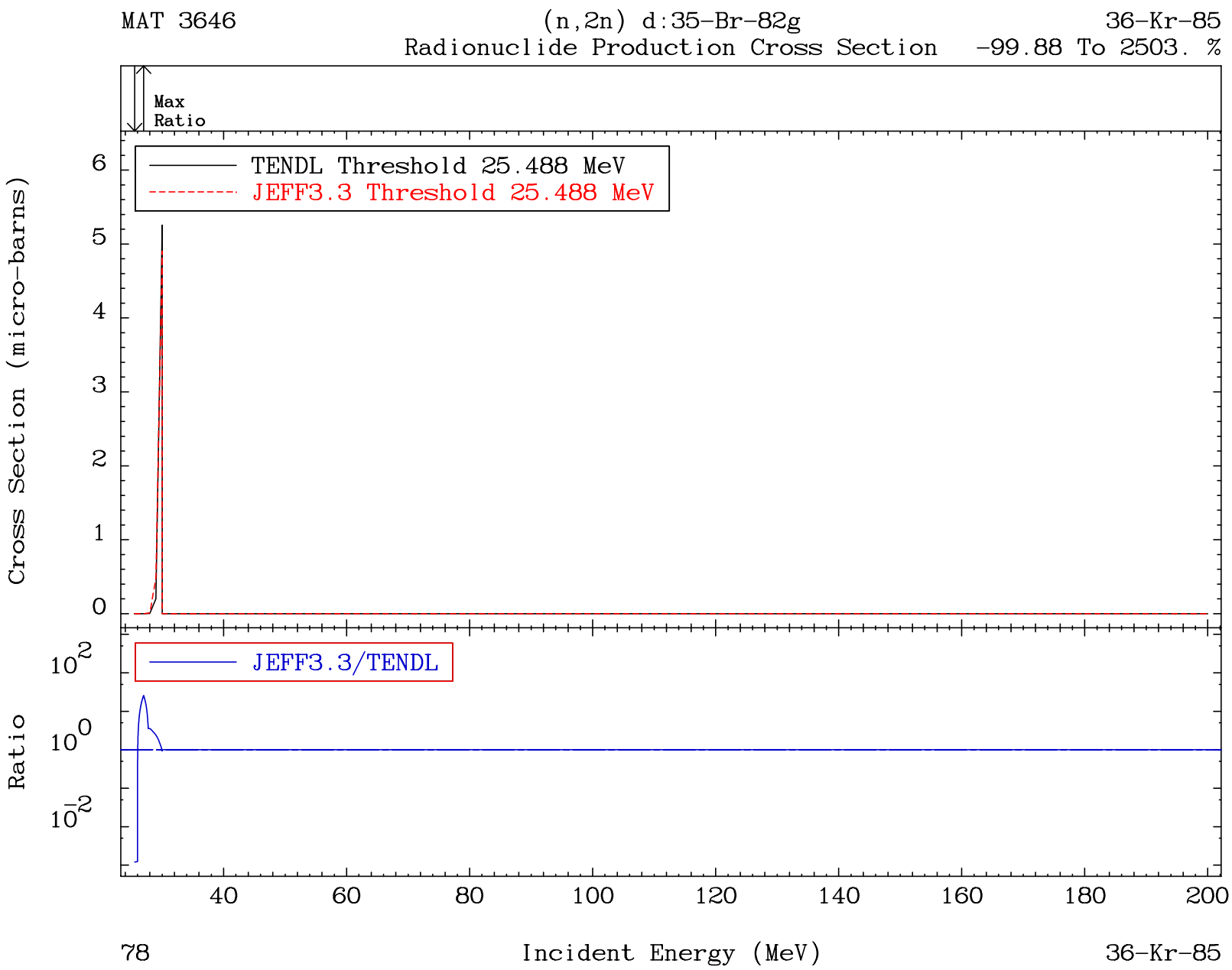

MAT 3646
Dpa elastic (mt2)
Cross Section
36-Kr-85
-53.74 To 5.488 %
Min Ratio
Max Ratio
TENDL Threshold 505.77 eV
JEFF3.3 Threshold 505.87 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
73
36-Kr-85

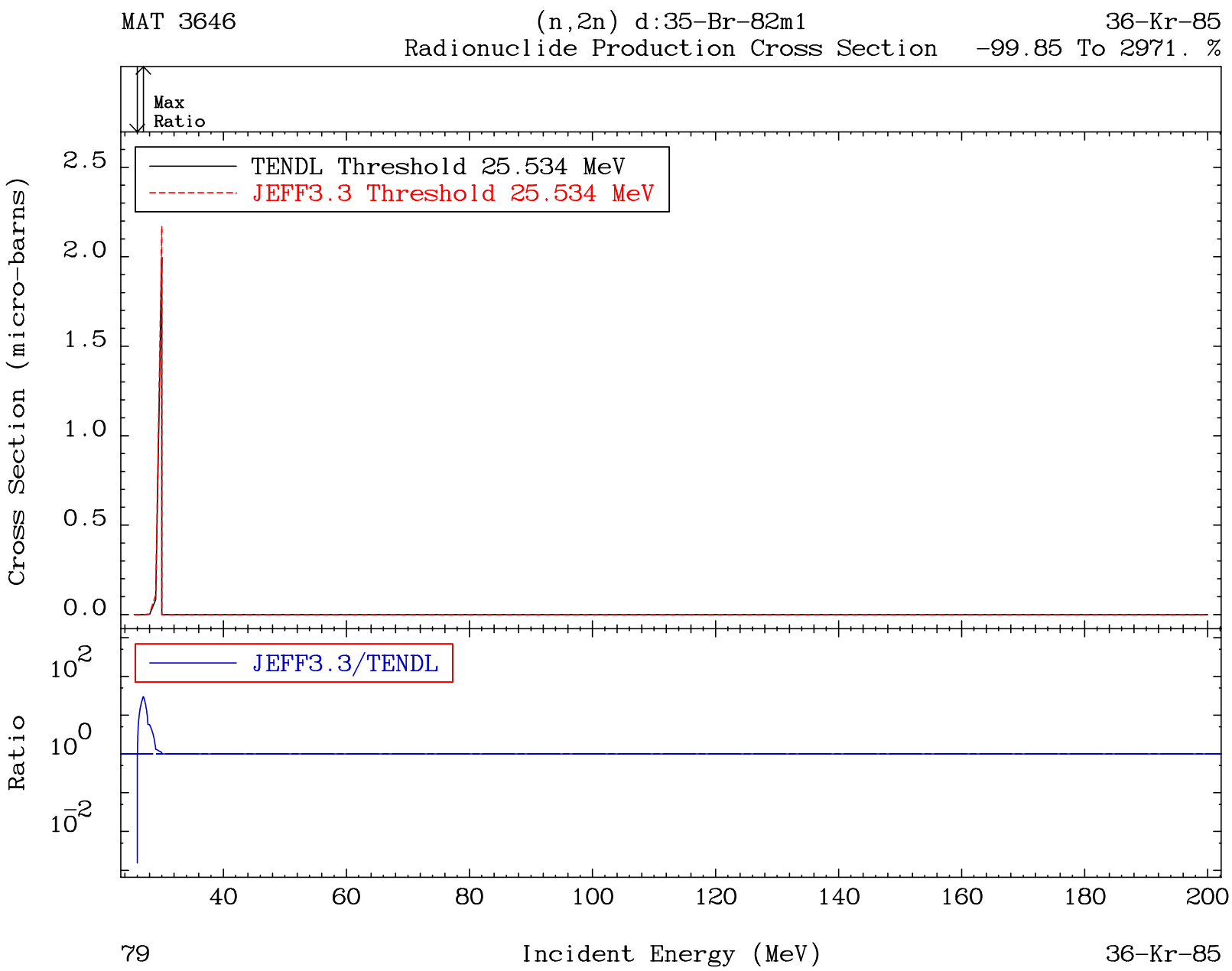

MAT 3646
Dpa inelastic (mt51-91)
Cross Section
36-Kr-85
-3.099 To 14.51 %
Min Ratio
Max Ratio
TENDL Threshold 308.49 keV
JEFF3.3 Threshold 308.49 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
36-Kr-85

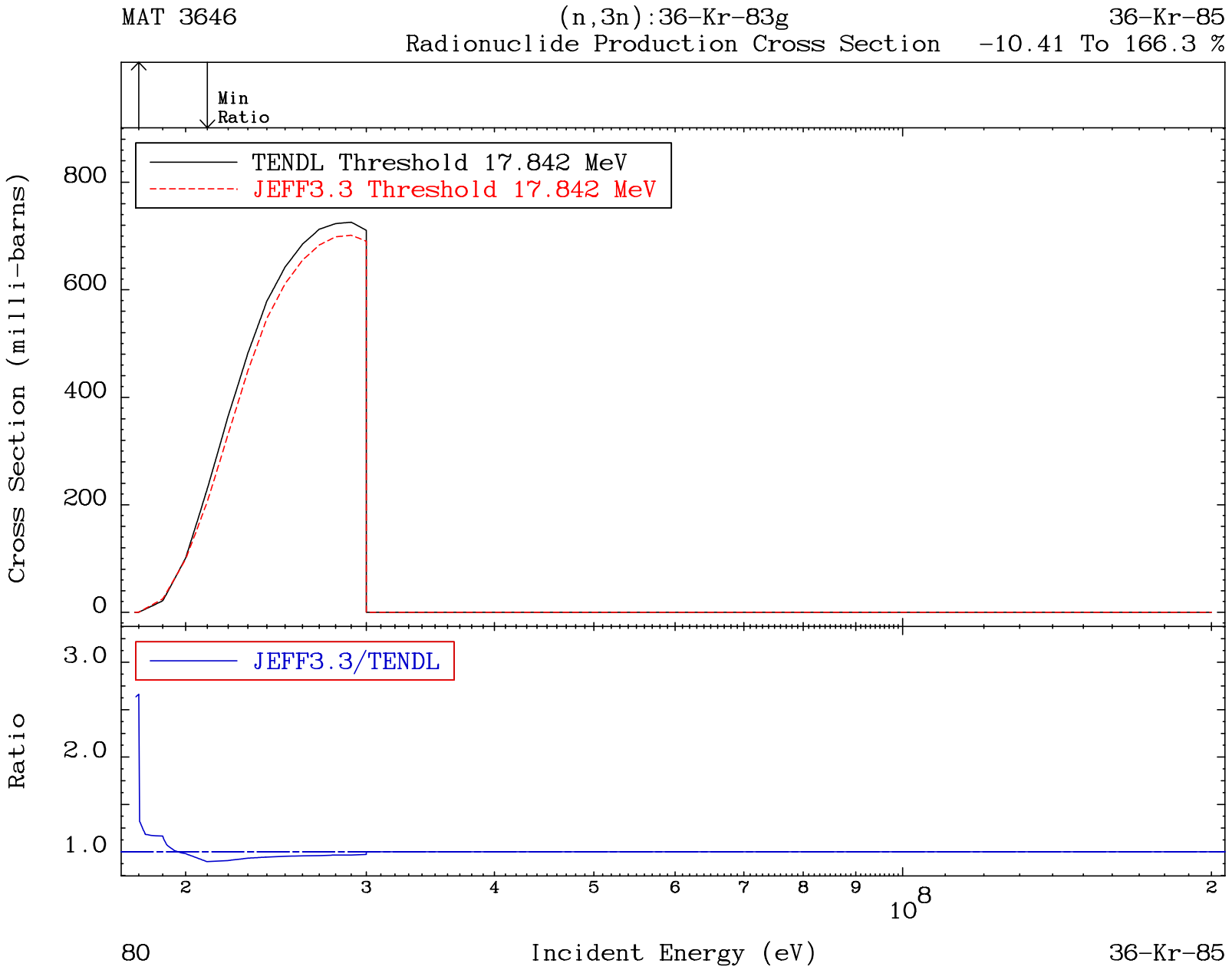

MAT 3646
Dpa disappearance (mt102 -120)
Cross Section
36-Kr-85
-99.87 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
36-Kr-85

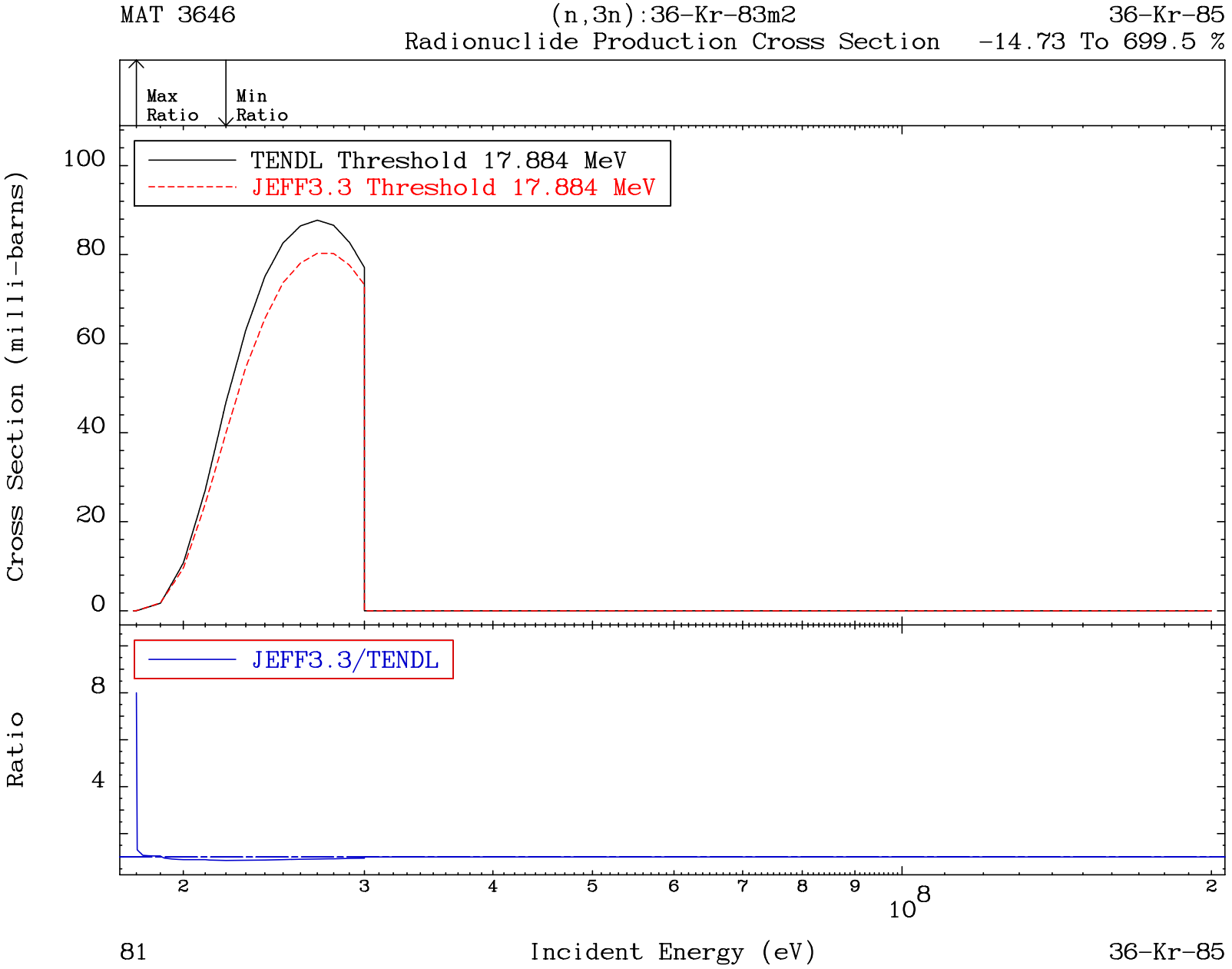

MAT 3646
Inelastic:36-Kr-85g
36-Kr-85
Radionuclide Production Cross Section 0.000 To 16.60 %
Max Ratio
Min Ratio
TENDL Threshold 1.0000 MeV
JEFF3.3 Threshold 1.0000 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.2
1.1
1.0
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
76
Incident Energy (eV)
36-Kr-85

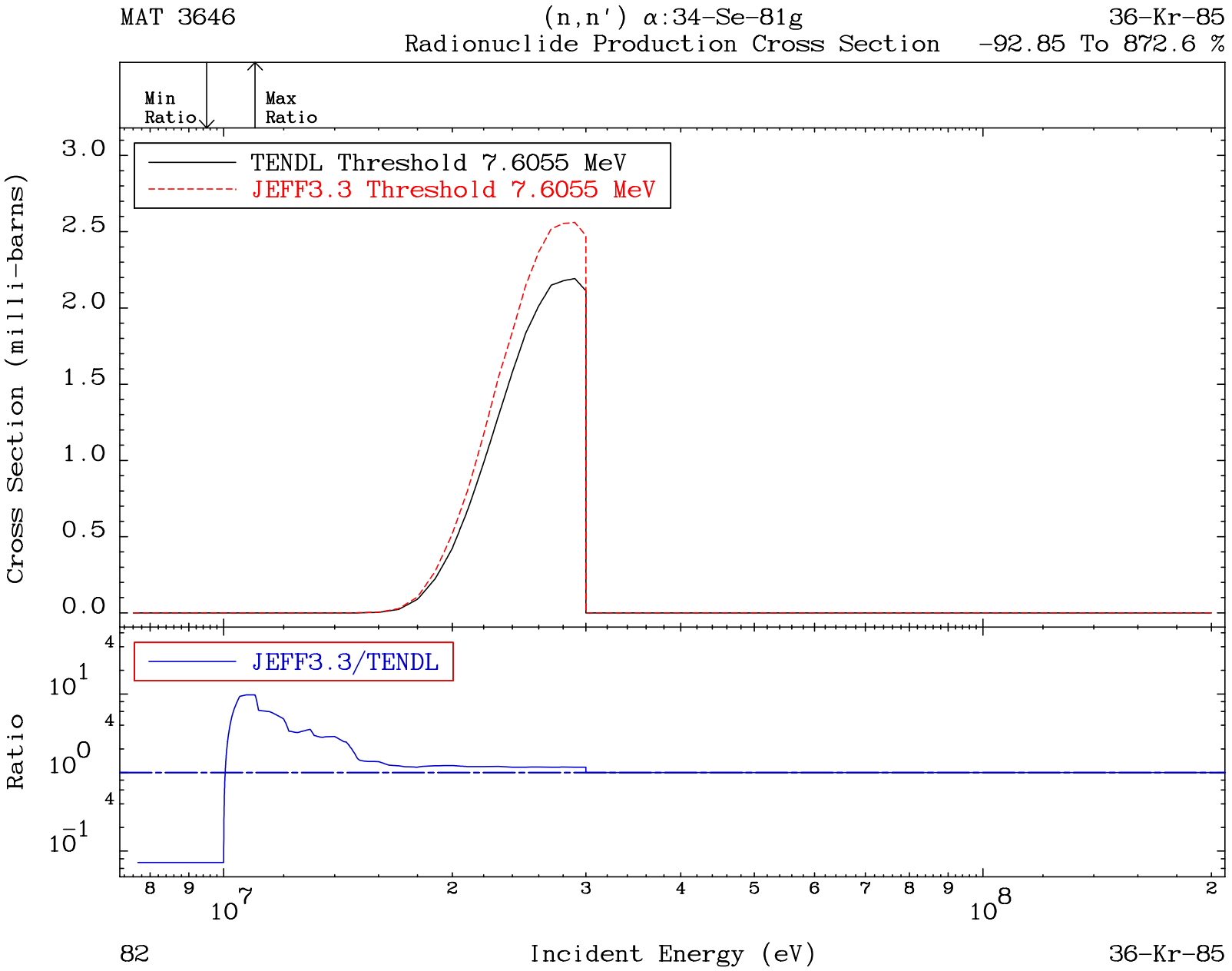

MAT 3646
Inelastic:36-Kr-85m1
36-Kr-85
Radionuclide Production Cross Section -8.011 To 3.864 %
Max Ratio
Min Ratio
TENDL Threshold 308.49 keV
JEFF3.3 Threshold 308.49 keV
Cross Section (milli-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
77
Incident Energy (eV)
36-Kr-85

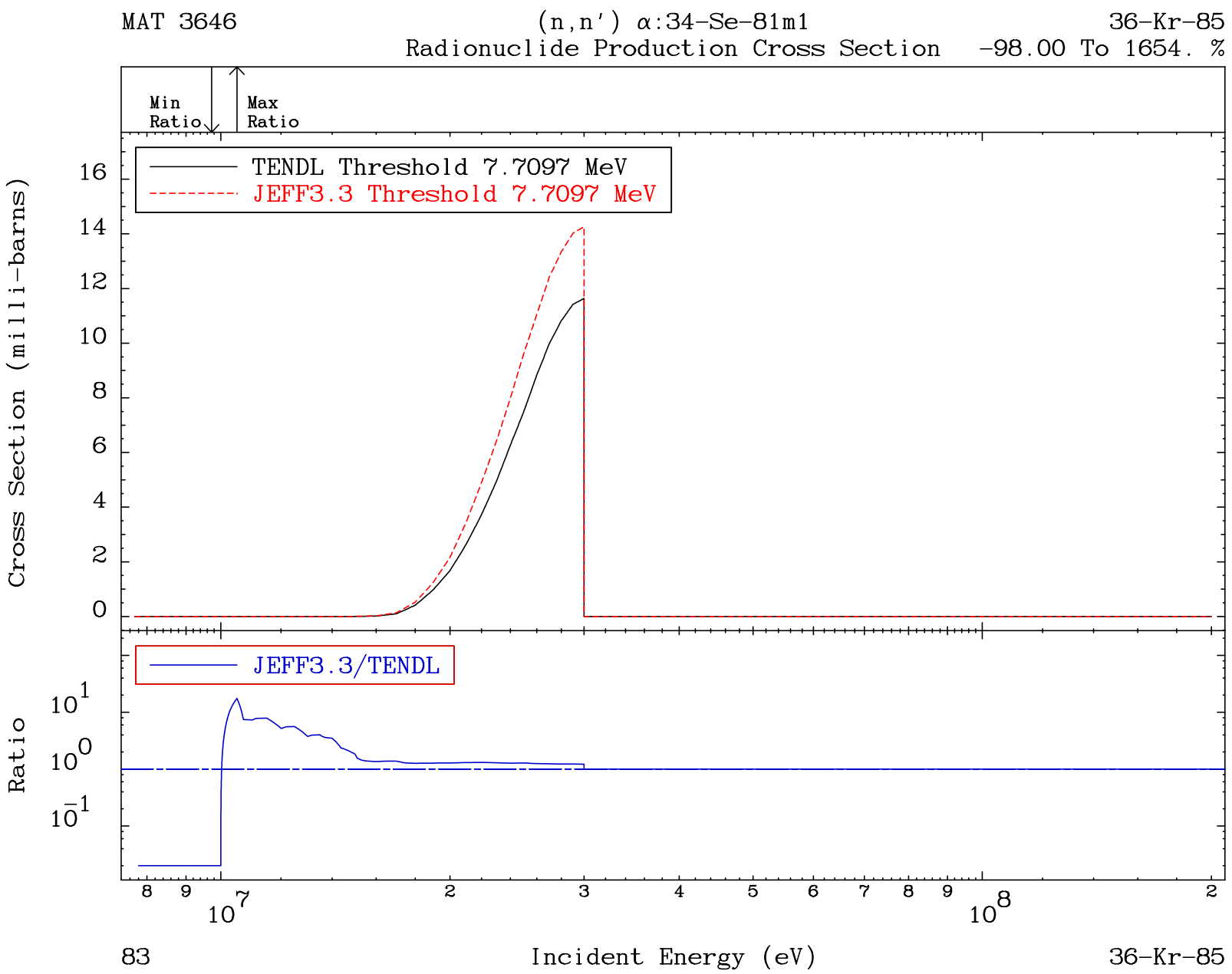

MAT 3646
(n,2n) d:35-Br-82g
36-Kr-85
Radionuclide Production Cross Section -99.88 To 2503. %
Max Ratio
TENDL Threshold 25.488 MeV
JEFF3.3 Threshold 25.488 MeV
Cross Section (micro-barns)
0
1
2
3
4
5
6
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
40
60
80
100
120
140
160
180
200
78
Incident Energy (MeV)
36-Kr-85

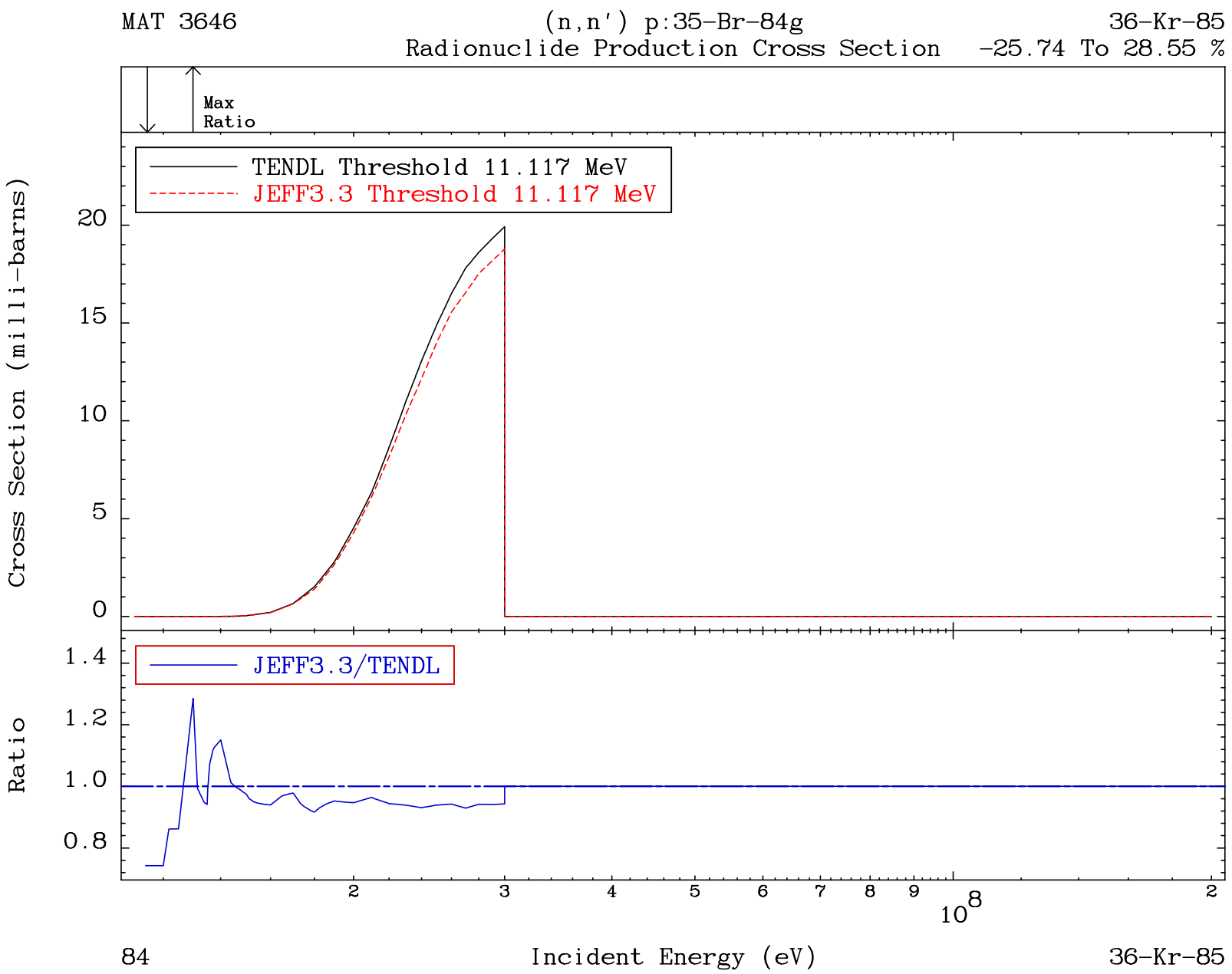

MAT 3646
(n,2n) d:35-Br-82m1
36-Kr-85
Radionuclide Production Cross Section -99.85 To 2971. %
Max Ratio
TENDL Threshold 25.534 MeV
JEFF3.3 Threshold 25.534 MeV
Cross Section (micro-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
40
60
80
100
120
140
160
180
200
79
Incident Energy (MeV)
36-Kr-85

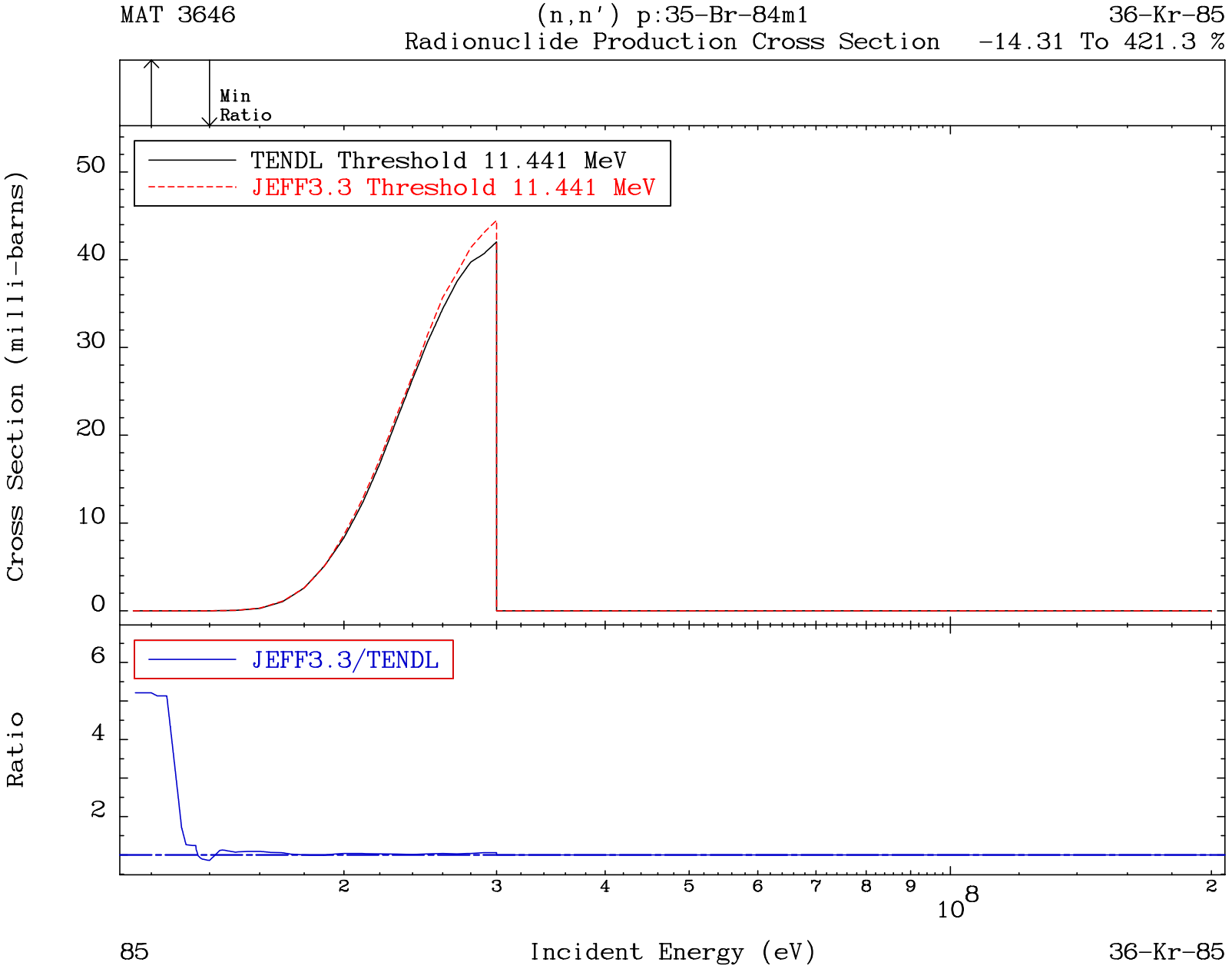

MAT 3646
(n,3n):36-Kr-83g
36-Kr-85
Radionuclide Production Cross Section
-10.41 To 166.3 %
Min
Ratio
TENDL Threshold 17.842 MeV
JEFF3.3 Threshold 17.842 MeV
Cross Section (milli-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
2
3
4
5
6
7
8
9
10^8
2
80
Incident Energy (eV)
36-Kr-85

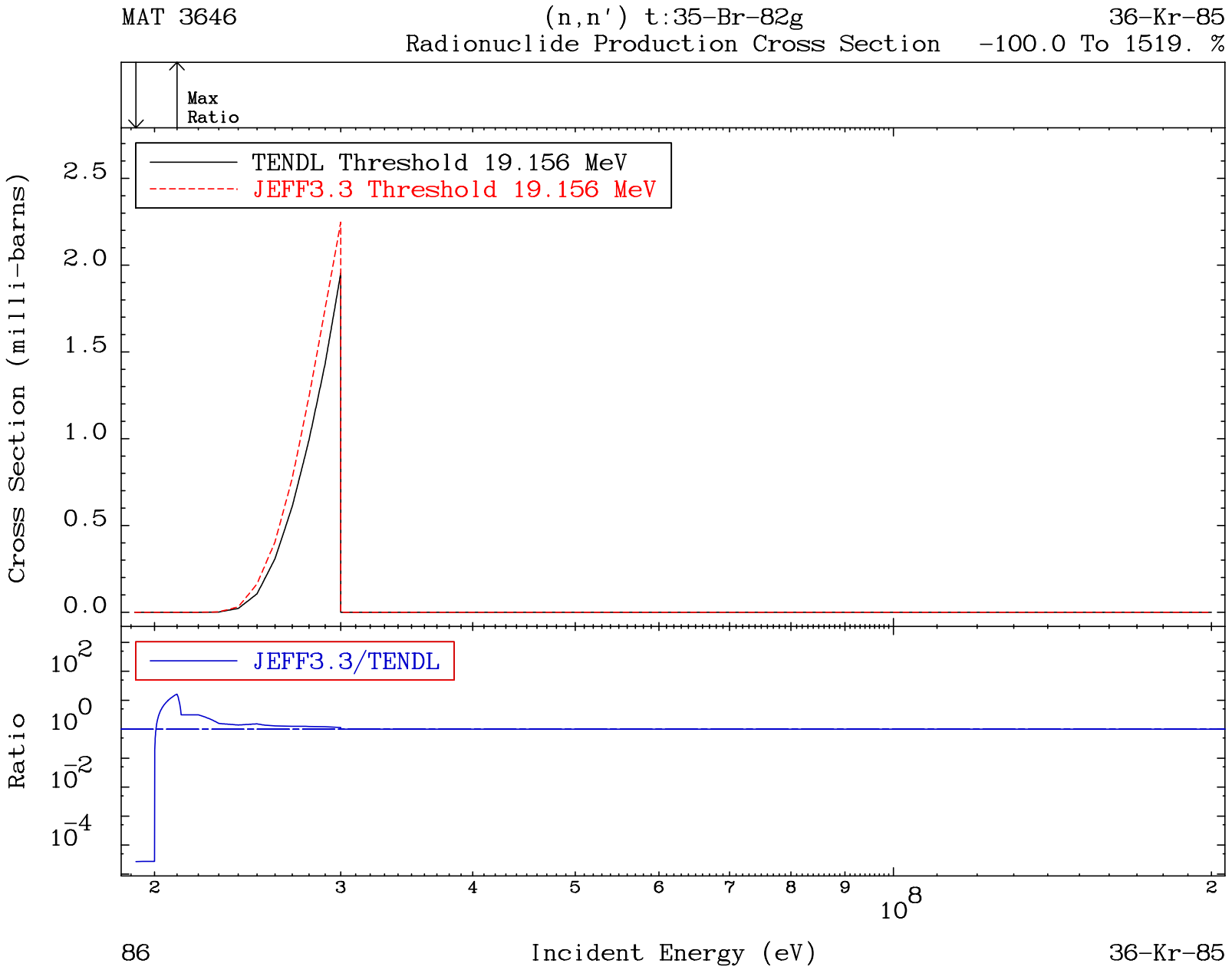

MAT 3646
(n,3n):36-Kr-83m2
36-Kr-85
Radionuclide Production Cross Section -14.73 To 699.5 %
Max Ratio
Min Ratio
TENDL Threshold 17.884 MeV
JEFF3.3 Threshold 17.884 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
36-Kr-85

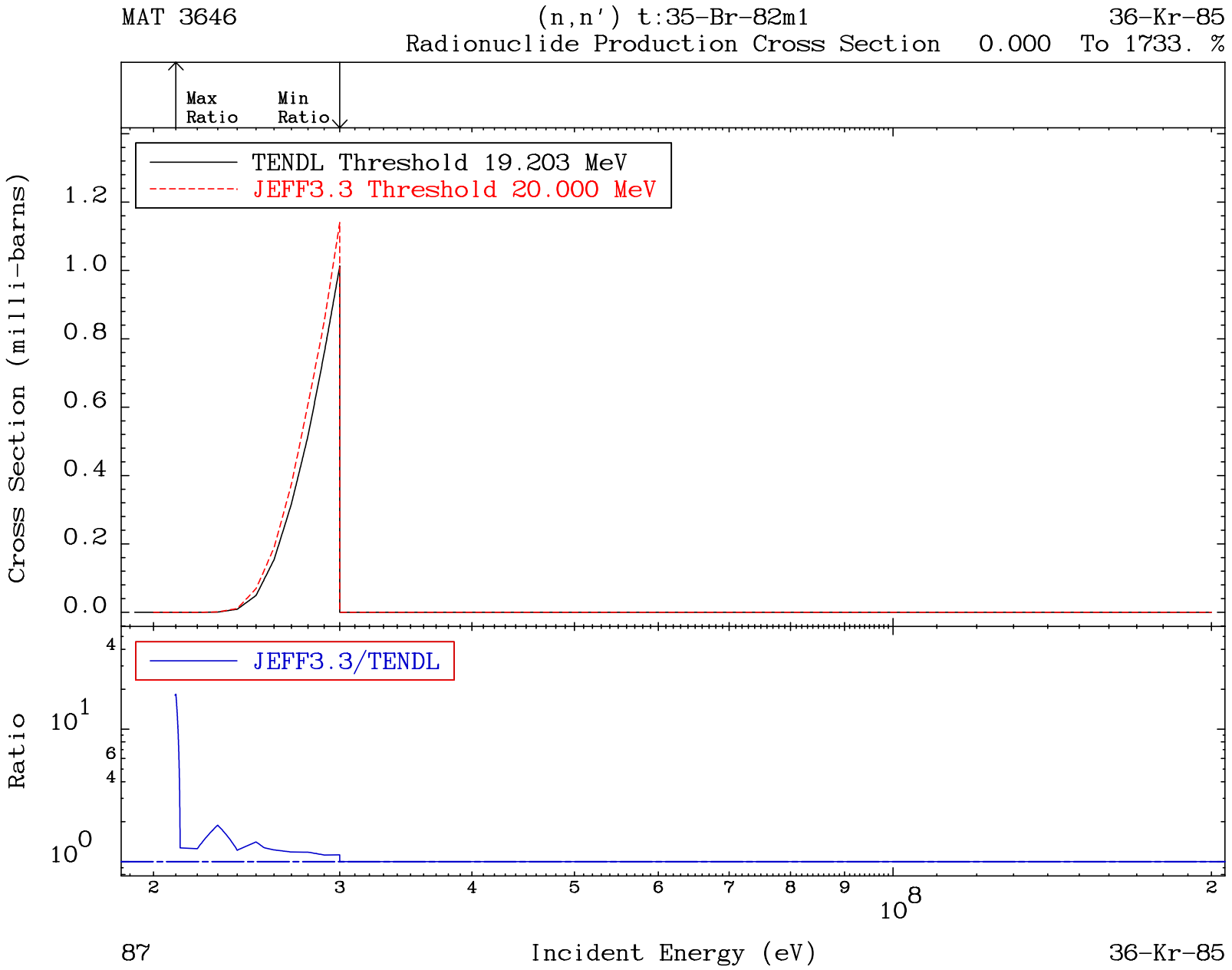

MAT 3646
(n,n') α:34-Se-81g
36-Kr-85
Radionuclide Production Cross Section
-92.85 To 872.6 %
Min Ratio
Max Ratio
TENDL Threshold 7.6055 MeV
JEFF3.3 Threshold 7.6055 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
82
Incident Energy (eV)
36-Kr-85

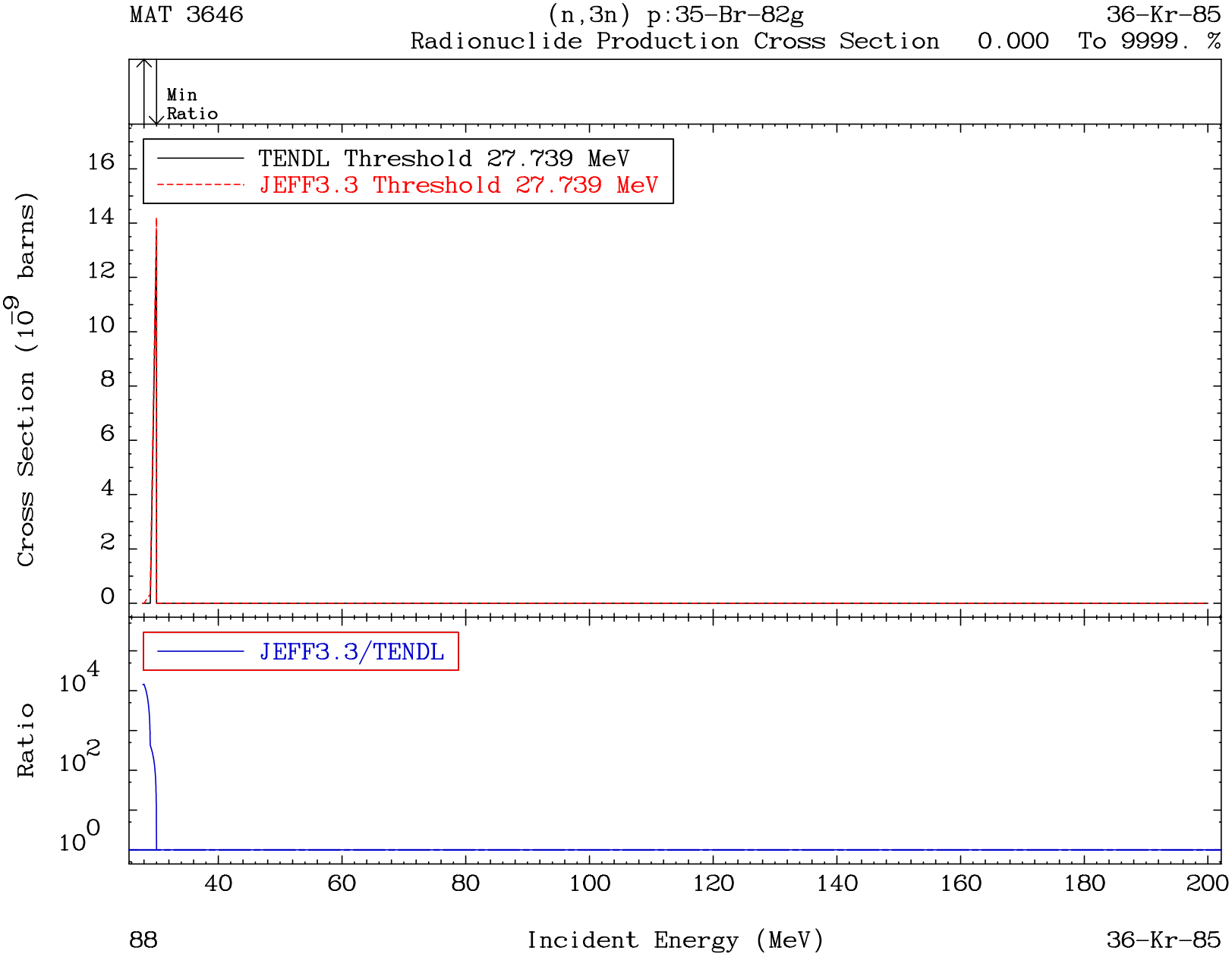

MAT 3646
(n,n') α:34-Se-81m1
36-Kr-85
Radionuclide Production Cross Section -98.00 To 1654. %
Min Ratio
Max Ratio
TENDL Threshold 7.7097 MeV
JEFF3.3 Threshold 7.7097 MeV
Cross Section (milli-barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
83
Incident Energy (eV)
36-Kr-85

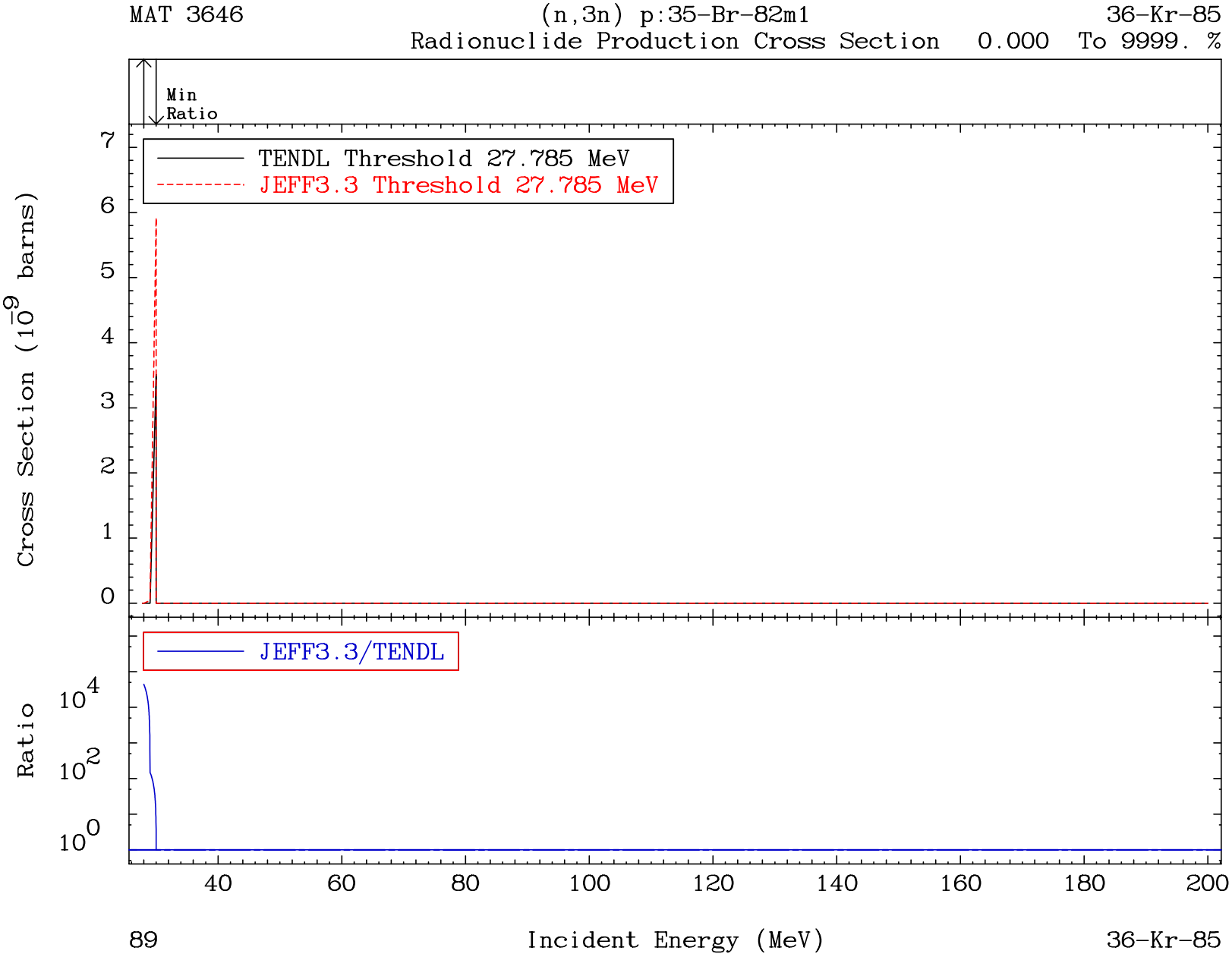

MAT 3646
(n,n') p:35-Br-84g
36-Kr-85
Radionuclide Production Cross Section
-25.74 To 28.55 %
Max
Ratio
TENDL Threshold 11.117 MeV
JEFF3.3 Threshold 11.117 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
0.8
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
36-Kr-85

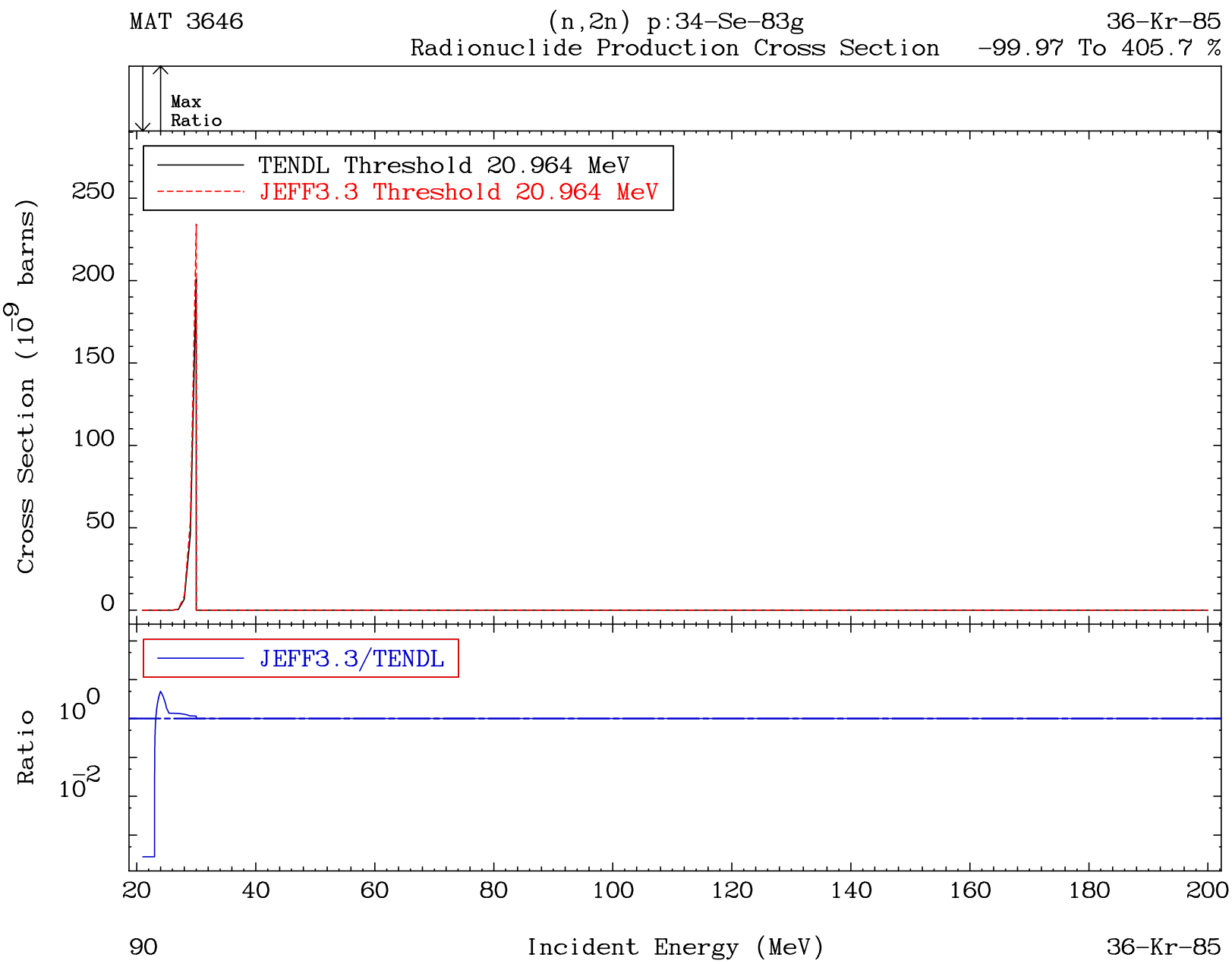

MAT 3646
(n,n') p:35-Br-84m1
36-Kr-85
Radionuclide Production Cross Section -14.31 To 421.3 %
Min
Ratio
TENDL Threshold 11.441 MeV
JEFF3.3 Threshold 11.441 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
6
4
2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
36-Kr-85

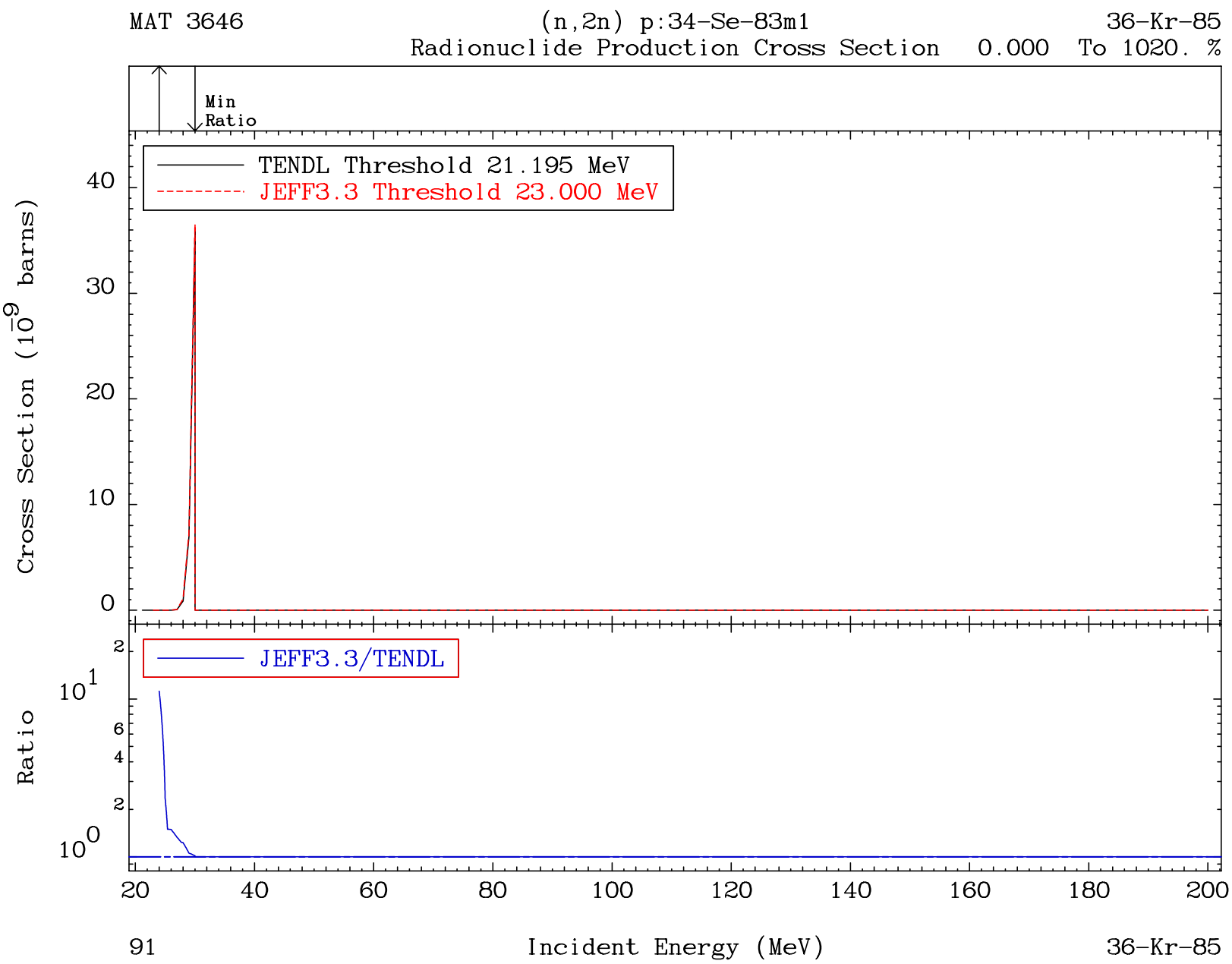

MAT 3646
(n,n') t:35-Br-82g
36-Kr-85
Radionuclide Production Cross Section -100.0 To 1519. %
Max
Ratio
TENDL Threshold 19.156 MeV
JEFF3.3 Threshold 19.156 MeV
Cross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
10^2
10^0
10^-2
10^-4
2
3
4
5
6
7
8
9
10^8
2
86
Incident Energy (eV)
36-Kr-85

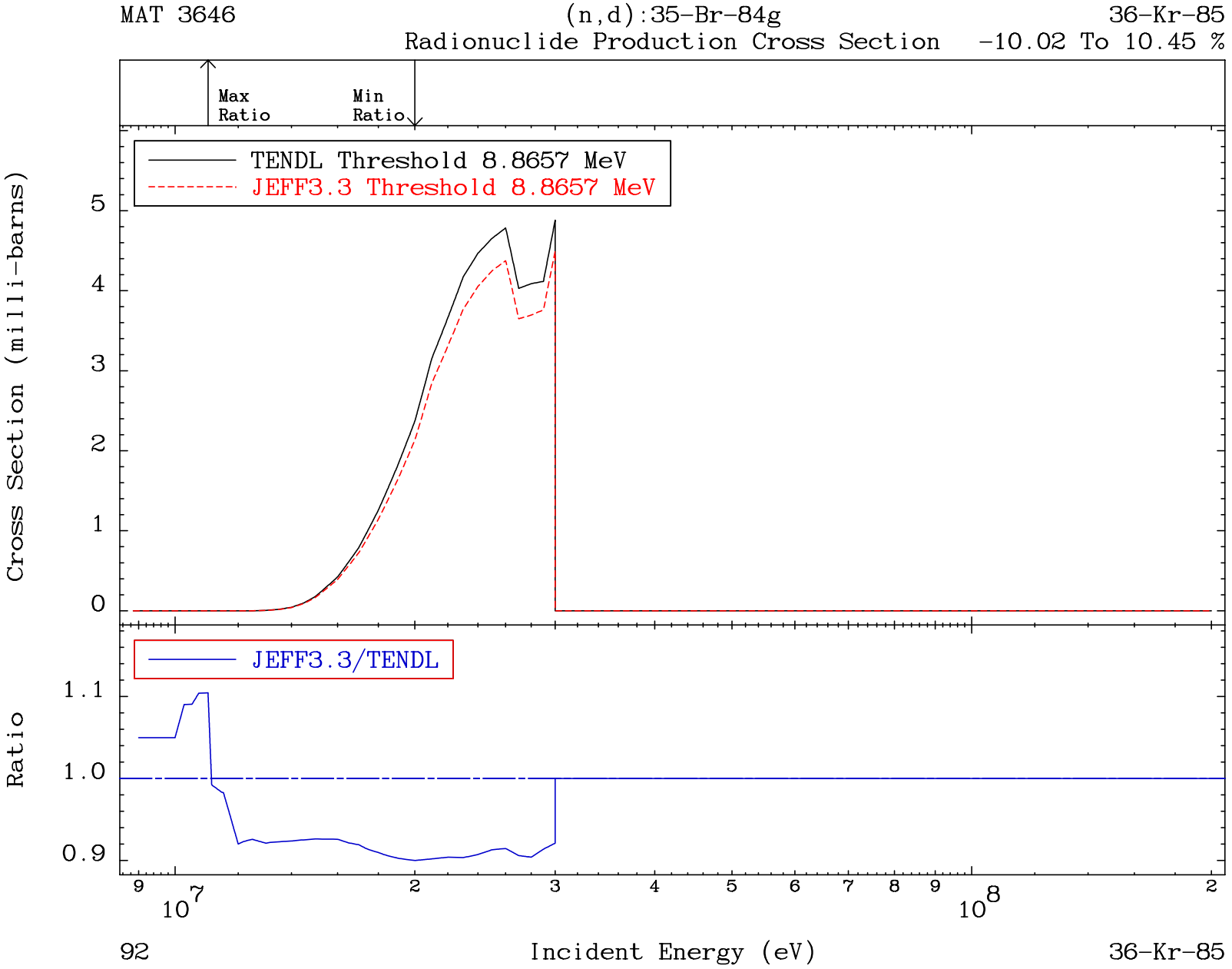

MAT 3646
(n,n') t:35-Br-82m1
36-Kr-85
Radionuclide Production Cross Section 0.000 To 1733. %
Max Ratio
Min Ratio
TENDL Threshold 19.203 MeV
JEFF3.3 Threshold 20.000 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
4
10^1
6
4
10^0
2
3
4
5
6
7
8
9
10^8
2
87
Incident Energy (eV)
36-Kr-85

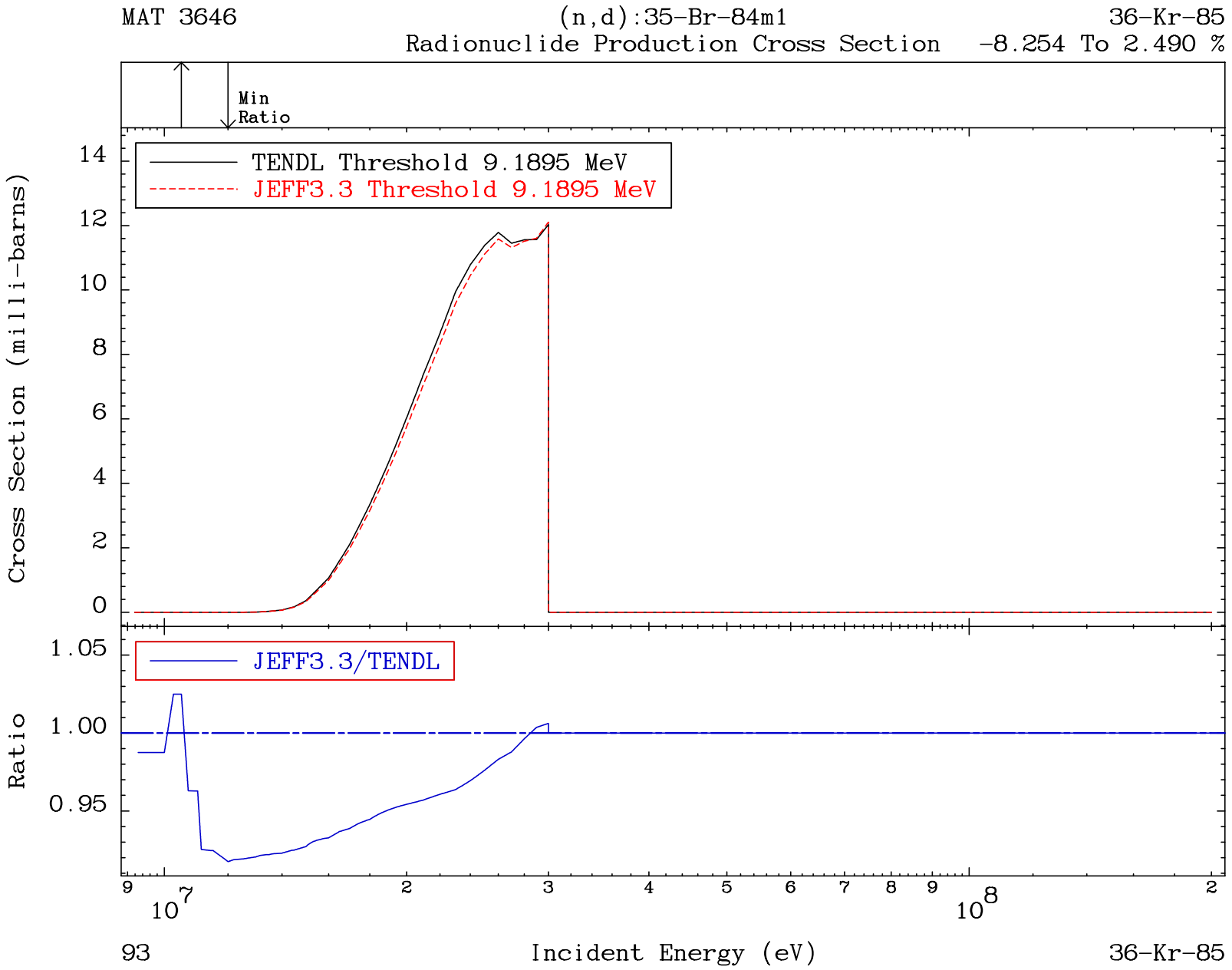

MAT 3646
(n,3n) p:35-Br-82g
36-Kr-85
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 27.739 MeV
JEFF3.3 Threshold 27.739 MeV
Cross Section (10^{-9} barns)
0
2
4
6
8
10
12
14
16
JEFF3.3/TENDL
Ratio
10^{0}
10^{2}
10^{4}
40
60
80
100
120
140
160
180
200
88
Incident Energy (MeV)
36-Kr-85

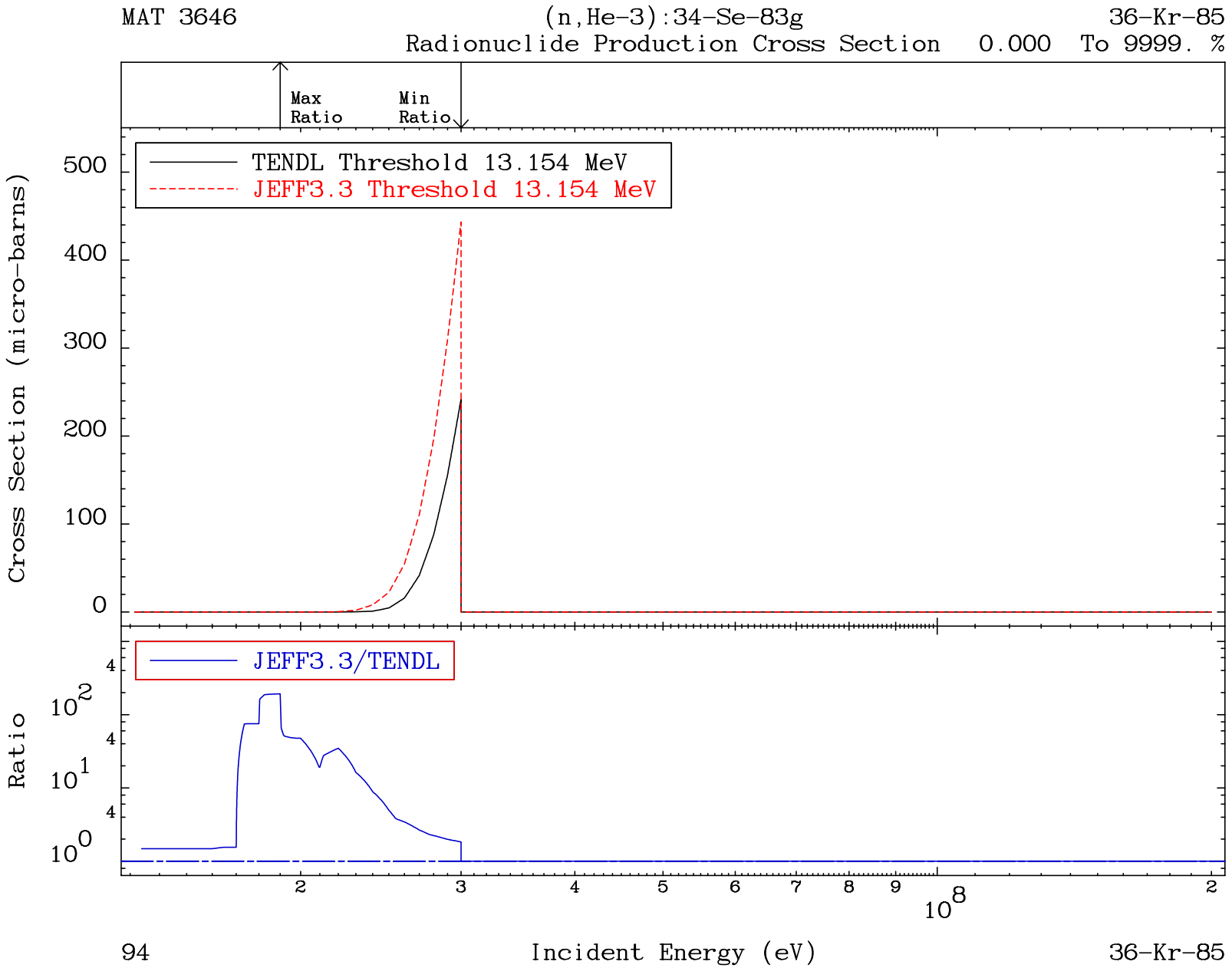

MAT 3646
(n,3n) p:35-Br-82m1
36-Kr-85
Radionuclide Production Cross Section 0.000 To 9999. %
Min Ratio
TENDL Threshold 27.785 MeV
JEFF3.3 Threshold 27.785 MeV
Cross Section (10^{-9} barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
10^{4}
10^{2}
10^{0}
40
60
80
100
120
140
160
180
200
89
Incident Energy (MeV)
36-Kr-85

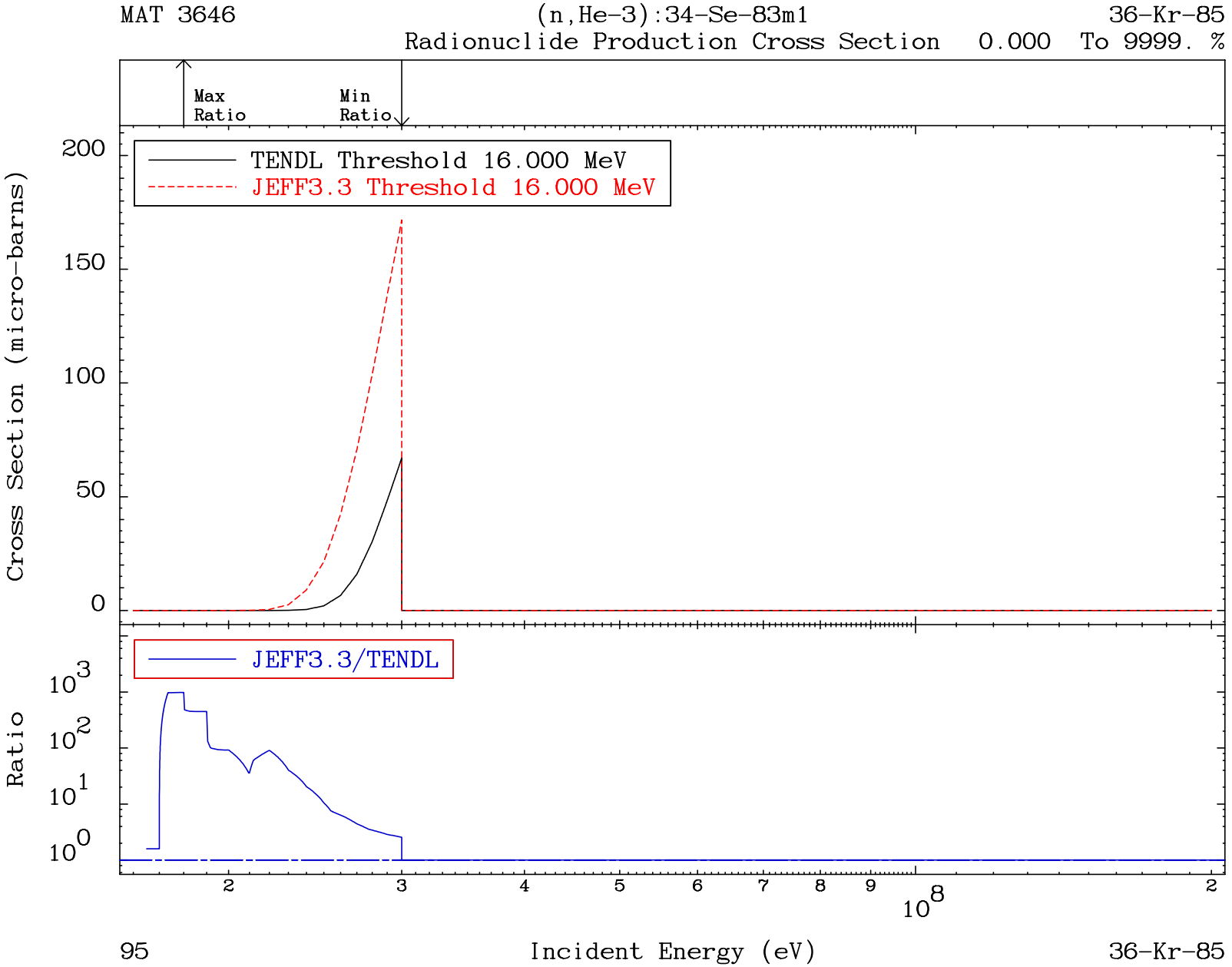

MAT 3646
(n,2n) p:34-Se-83g
36-Kr-85
Radionuclide Production Cross Section -99.97 To 405.7 %
Max Ratio
TENDL Threshold 20.964 MeV
JEFF3.3 Threshold 20.964 MeV
Cross Section (10^{-9} barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^{0}
10^{-2}
20
40
60
80
100
120
140
160
180
200
90
Incident Energy (MeV)
36-Kr-85

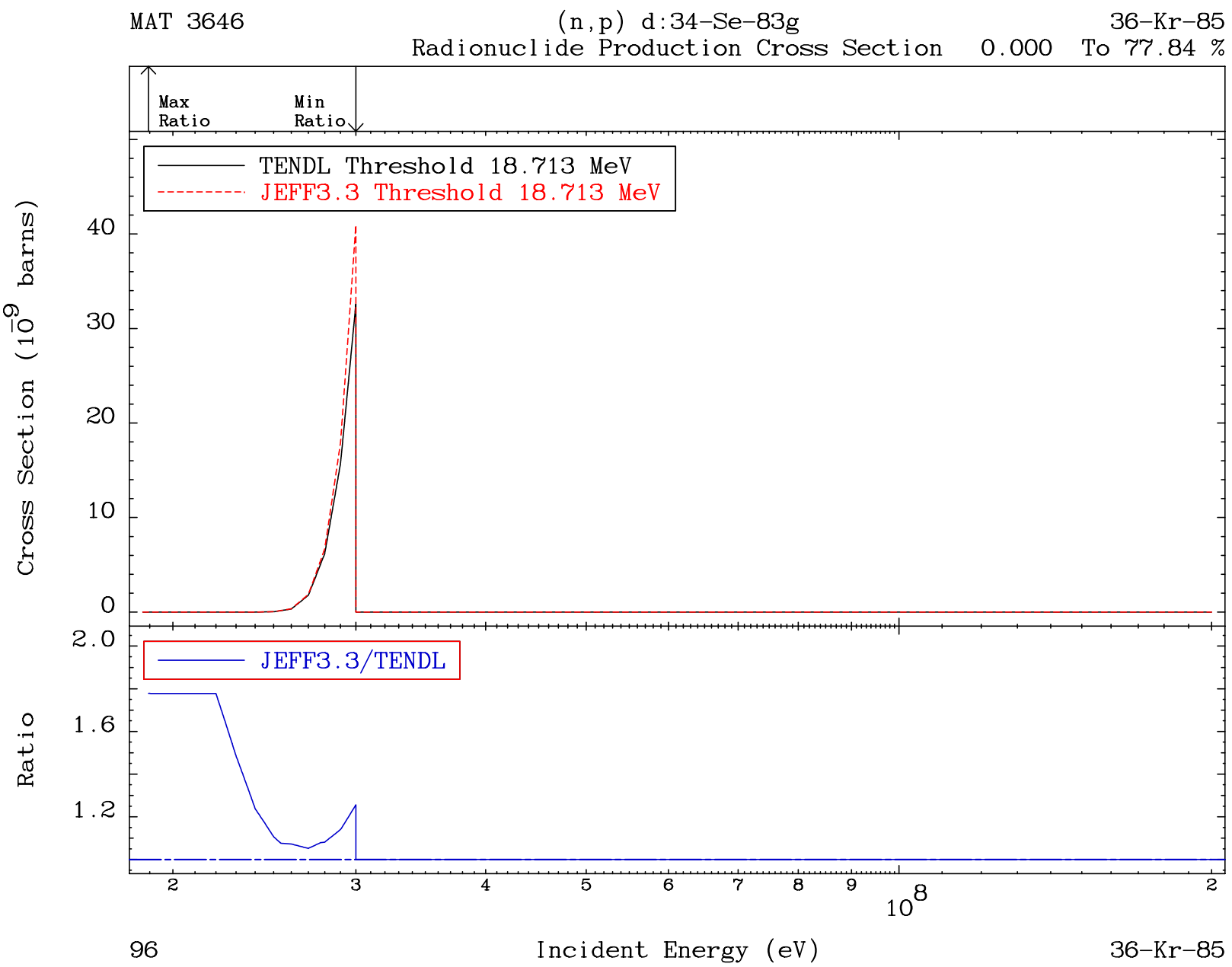

MAT 3646
(n,2n) p:34-Se-83m1
36-Kr-85
Radionuclide Production Cross Section 0.000 To 1020. %
Min Ratio
TENDL Threshold 21.195 MeV
JEFF3.3 Threshold 23.000 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
10^1
6
4
2
10^0
20
40
60
80
100
120
140
160
180
200
91
Incident Energy (MeV)
36-Kr-85

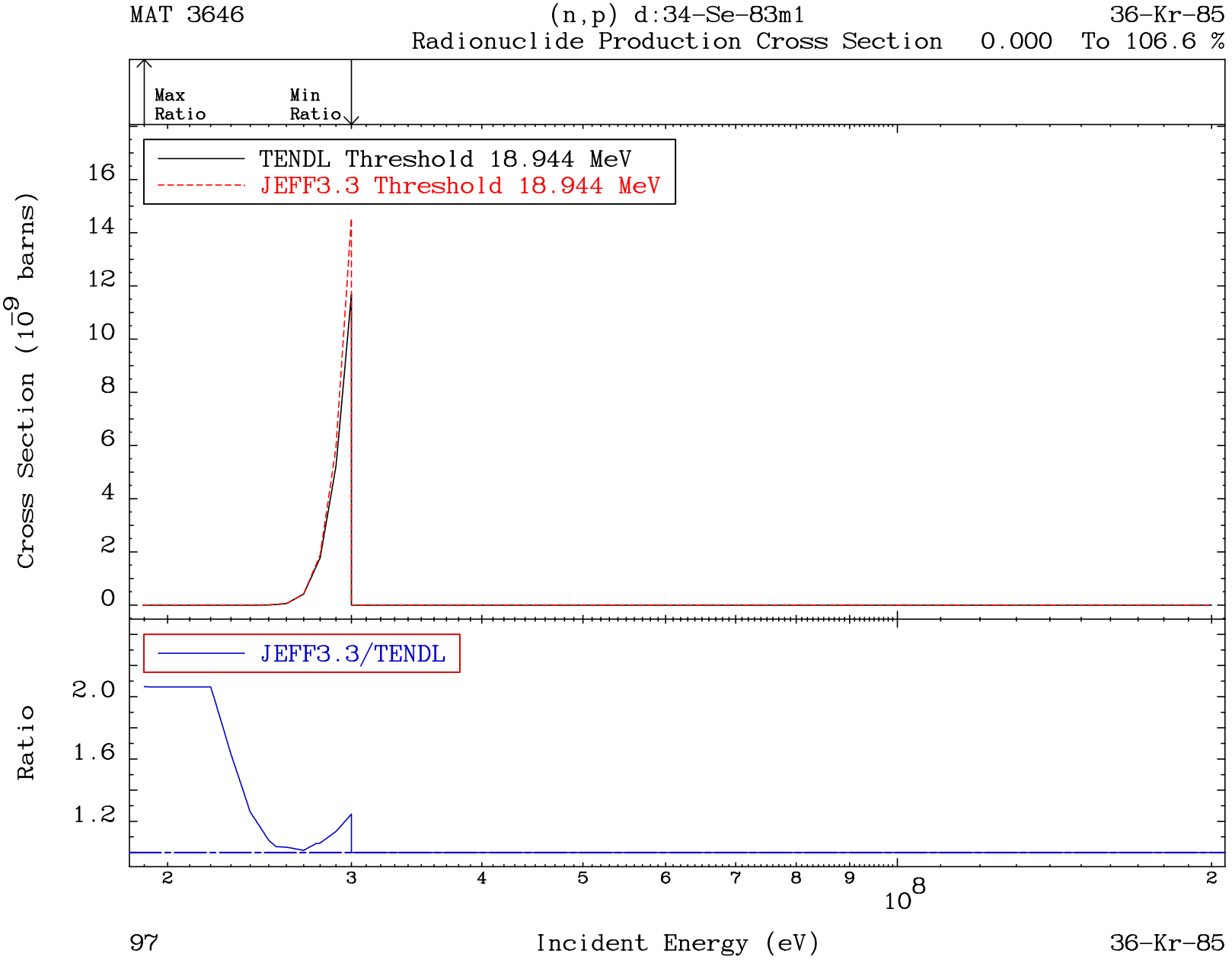

MAT 3646
(n,d):35-Br-84g
36-Kr-85
Radionuclide Production Cross Section
-10.02 To 10.45 %
Max Ratio
Min Ratio
TENDL Threshold 8.8657 MeV
JEFF3.3 Threshold 8.8657 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.9
1.0
1.1
9
10^7
2
3
4
5
6
7
8
9
10^8
2
92
Incident Energy (eV)
36-Kr-85


MAT 3646
(n,d):35-Br-84m1
36-Kr-85
Radionuclide Production Cross Section
-8.254 To 2.490 %
Min
Ratio
TENDL Threshold 9.1895 MeV
JEFF3.3 Threshold 9.1895 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.05
1.00
0.95
9
10^7
2
3
4
5
6
7
8
9
10^8
2
93
Incident Energy (eV)
36-Kr-85


MAT 3646
(n,He-3):34-Se-83g
36-Kr-85
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 13.154 MeV
JEFF3.3 Threshold 13.154 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
94
Incident Energy (eV)
36-Kr-85


MAT 3646
(n,He-3):34-Se-83m1
36-Kr-85
Radionuclide Production Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 16.000 MeV
JEFF3.3 Threshold 16.000 MeV
Cross Section (micro-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^3
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
95
Incident Energy (eV)
36-Kr-85


MAT 3646
(n,p) d:34-Se-83g
36-Kr-85
Radionuclide Production Cross Section 0.000 To 77.84 %
Max Ratio
Min Ratio
TENDL Threshold 18.713 MeV
JEFF3.3 Threshold 18.713 MeV
Cross Section (10^{-9} barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
96
Incident Energy (eV)
36-Kr-85


MAT 3646
(n,p) d:34-Se-83m1
36-Kr-85
Radionuclide Production Cross Section 0.000 To 106.6 %
Max Ratio
Min Ratio
TENDL Threshold 18.944 MeV
JEFF3.3 Threshold 18.944 MeV
Cross Section (10^{-9} barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
97
Incident Energy (eV)
36-Kr-85