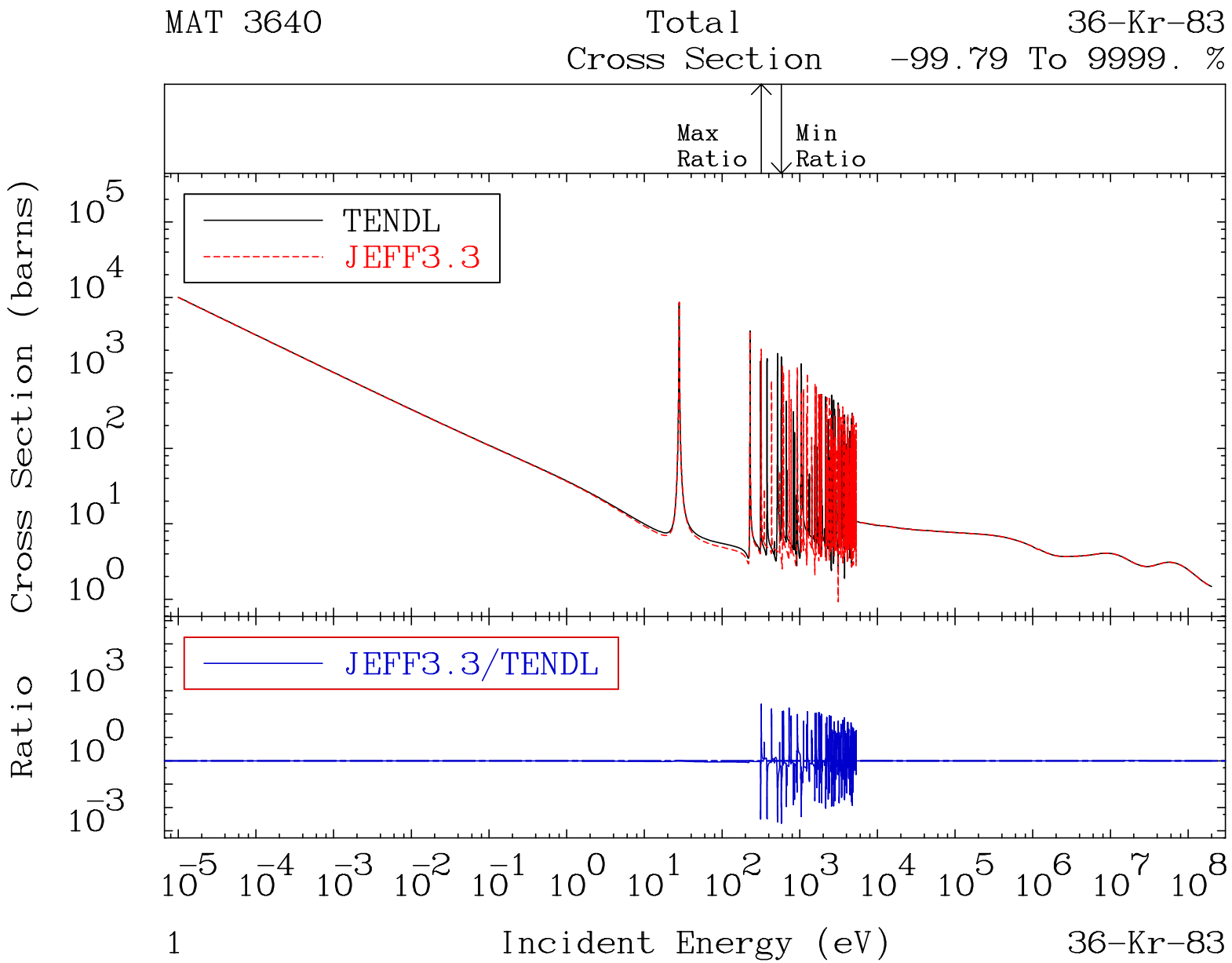
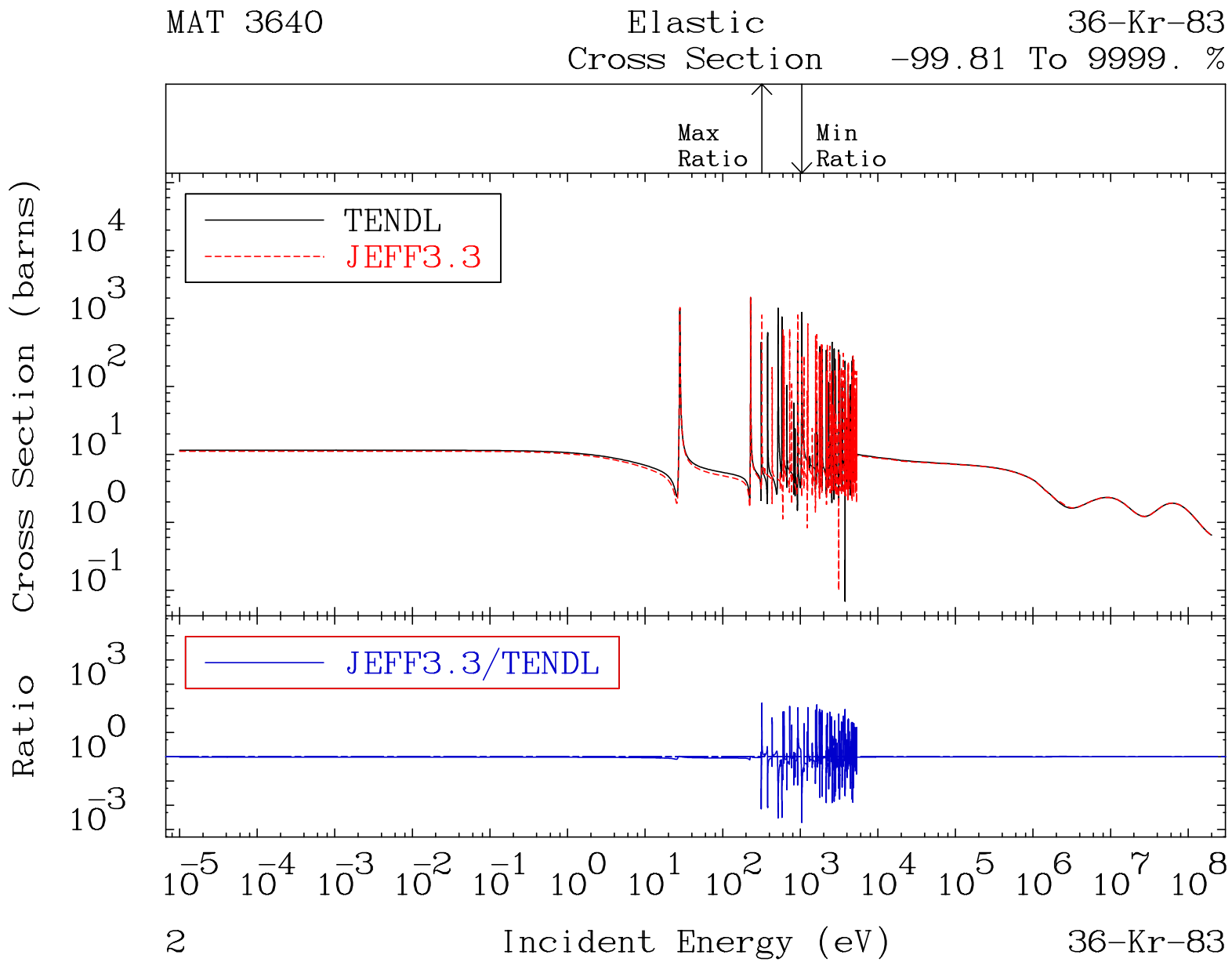
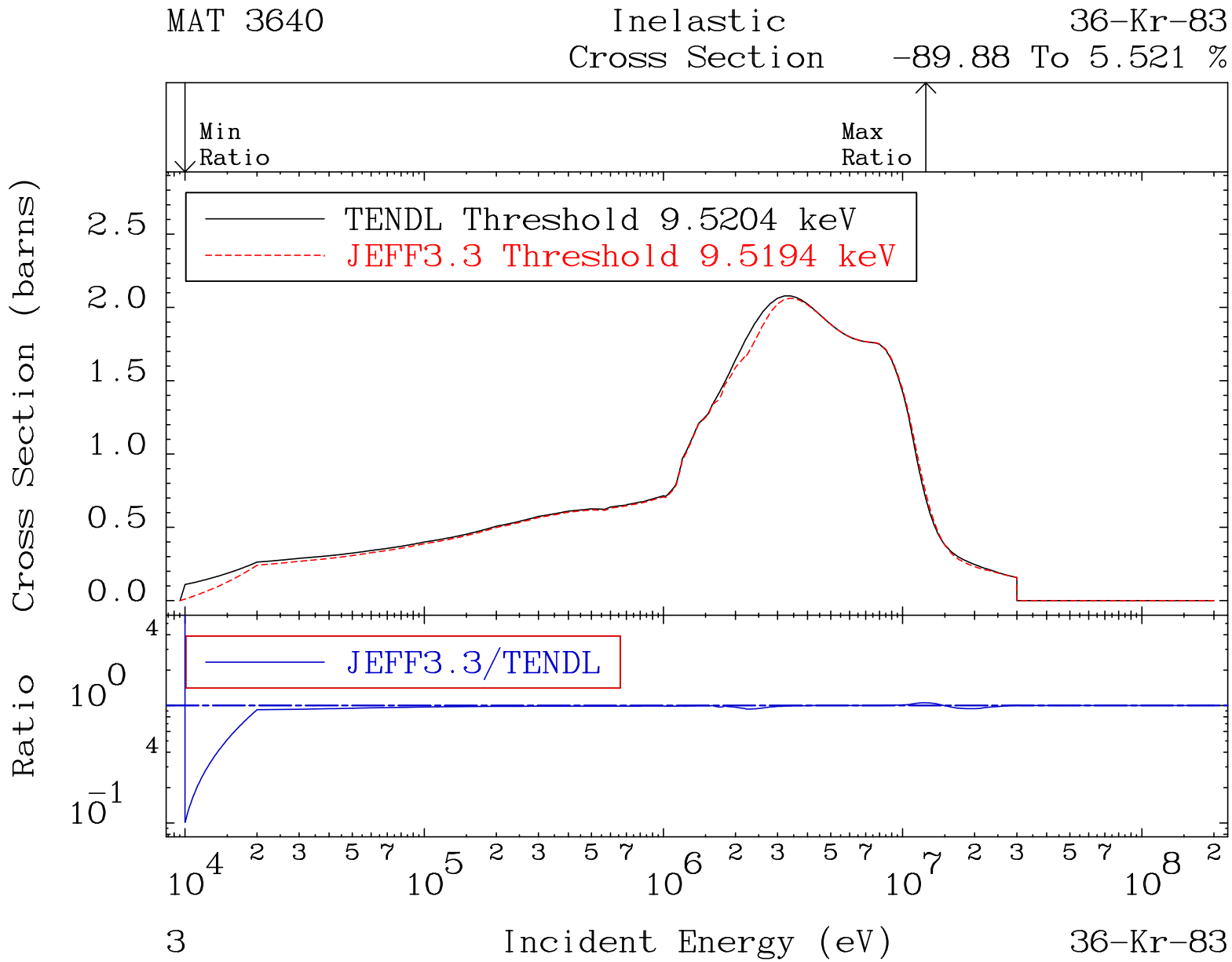
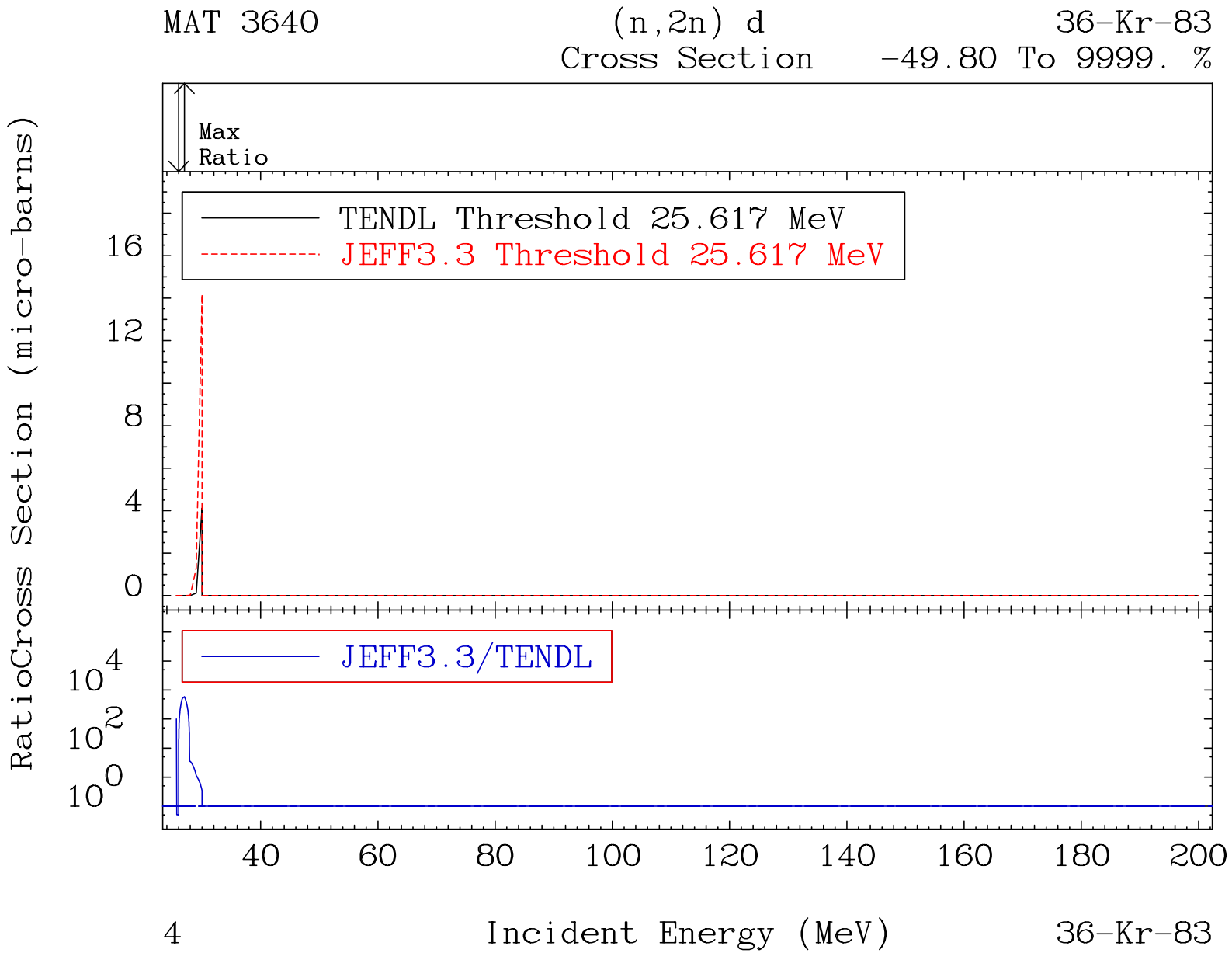
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

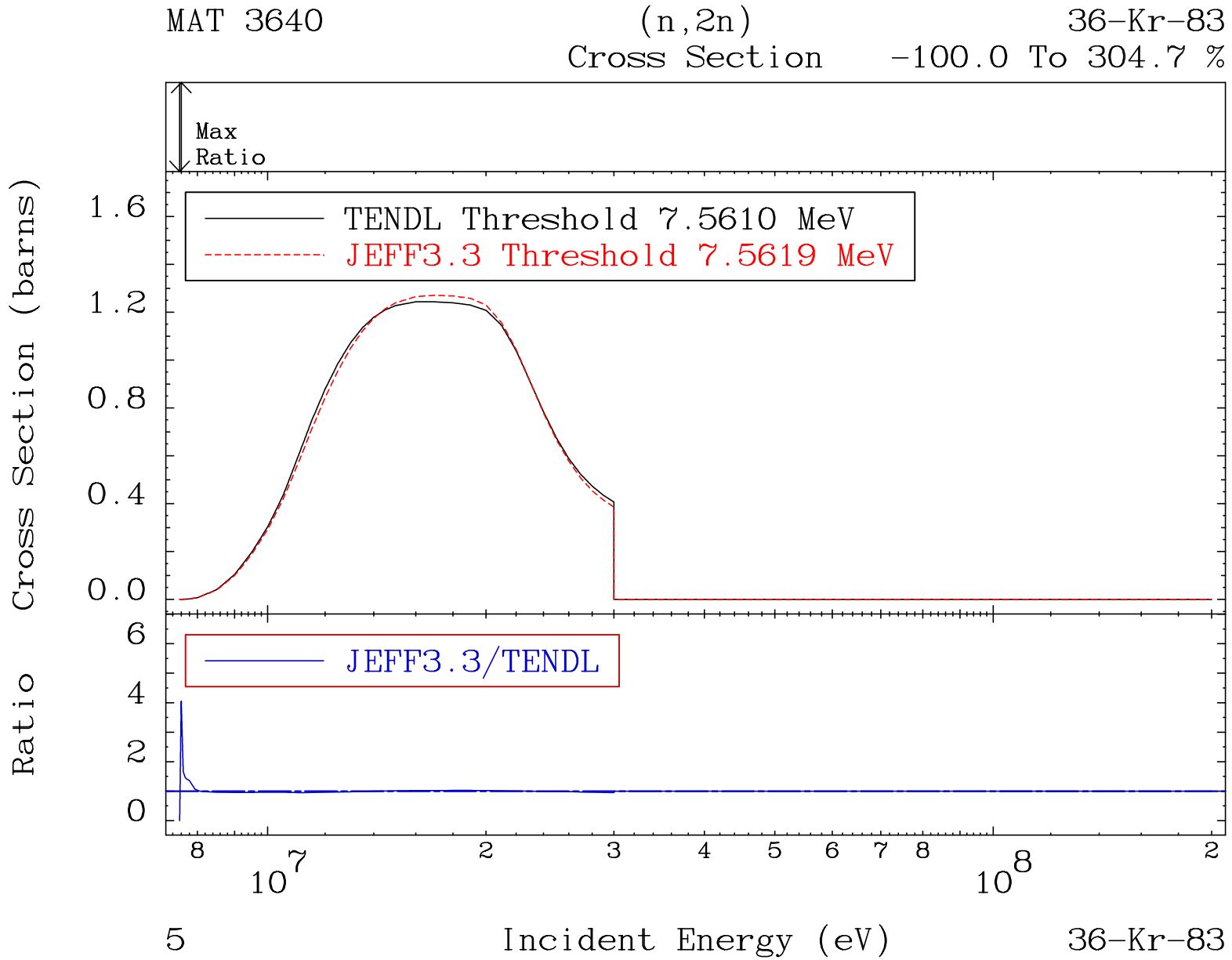
Press Mouse Button to Start

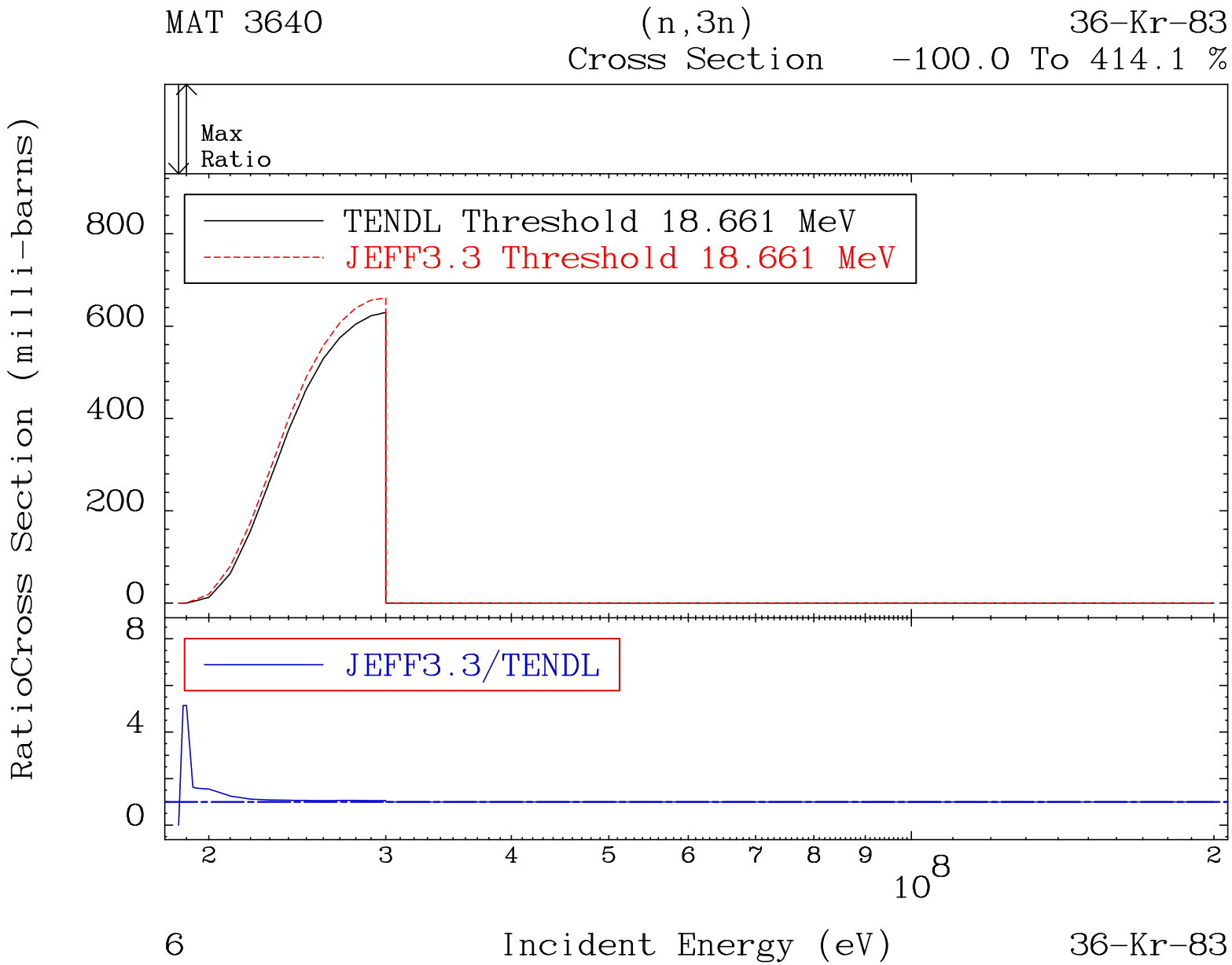

MAT 3640
Total
Cross Section
36-Kr-83
-99.79 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
36-Kr-83

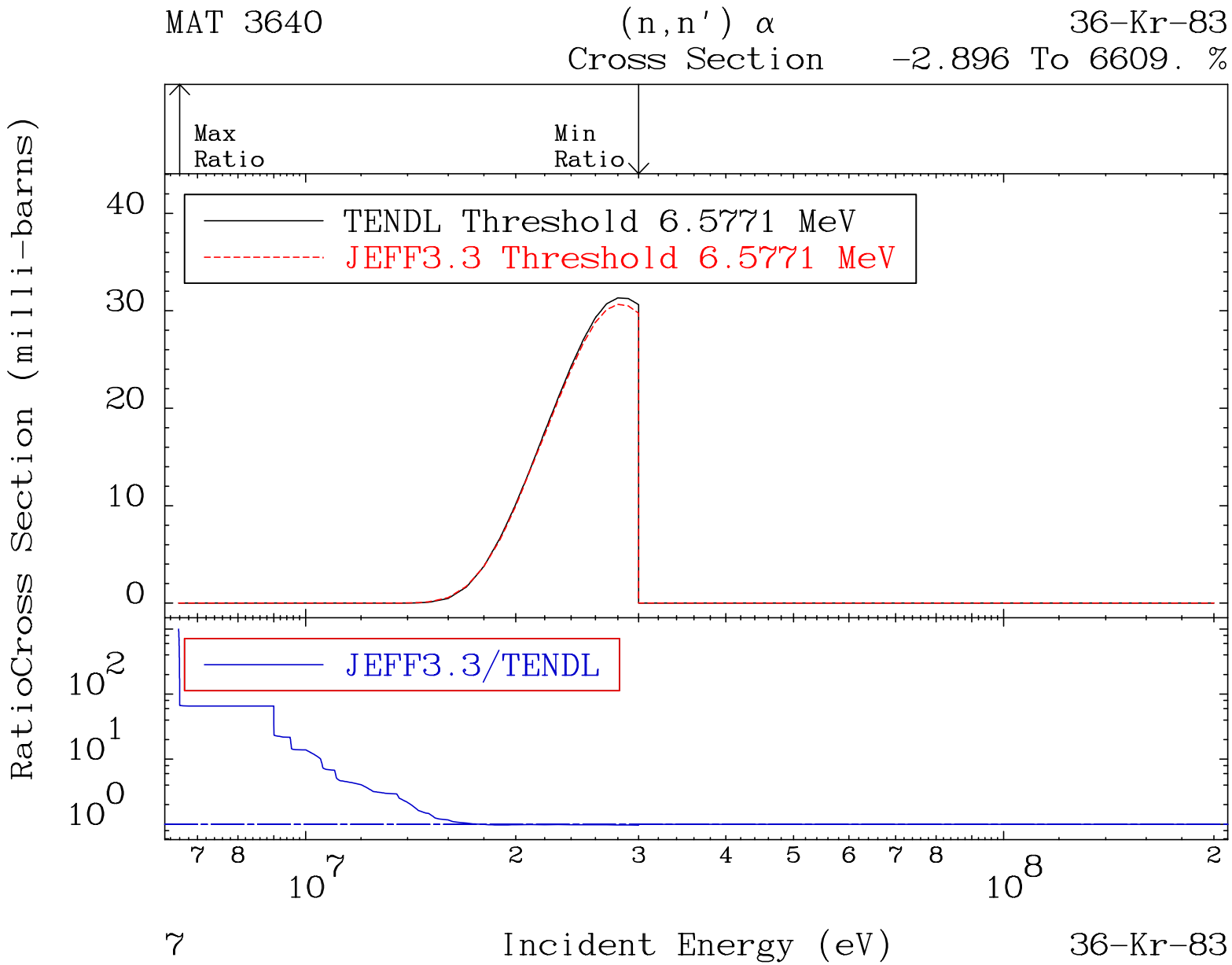

MAT 3640
Elastic
Cross Section
36-Kr-83
-99.81 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
36-Kr-83

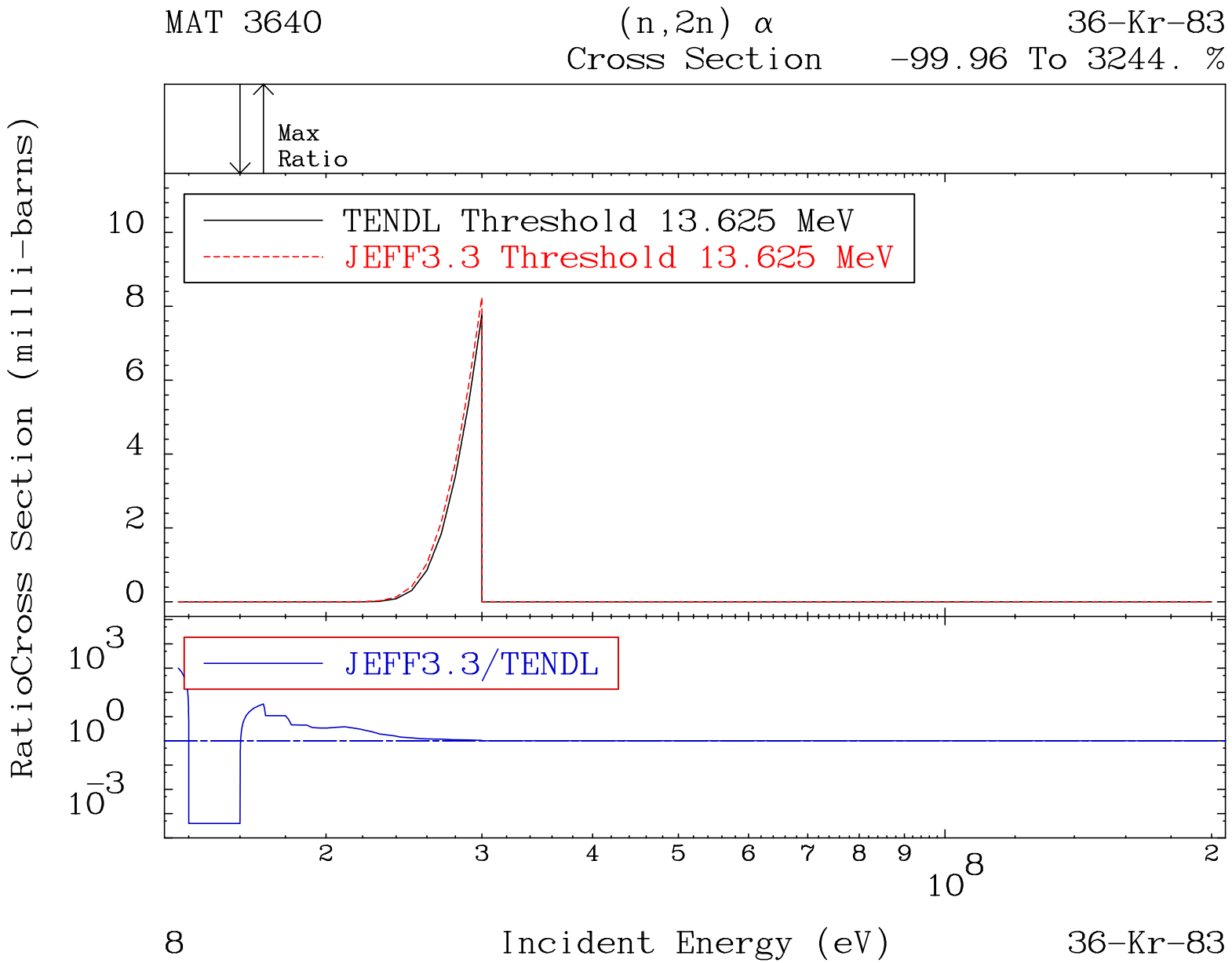

MAT 3640
Inelastic
Cross Section
36-Kr-83
-89.88 To 5.521 %
Min
Ratio
Max
Ratio
TENDL Threshold 9.5204 keV
JEFF3.3 Threshold 9.5194 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
4
10^{0}
4
10^{-1}
10^{4} 2 3 5 7 10^{5} 2 3 5 7 10^{6} 2 3 5 7 10^{7} 2 3 5 7 10^{8} 2
3
Incident Energy (eV)
36-Kr-83

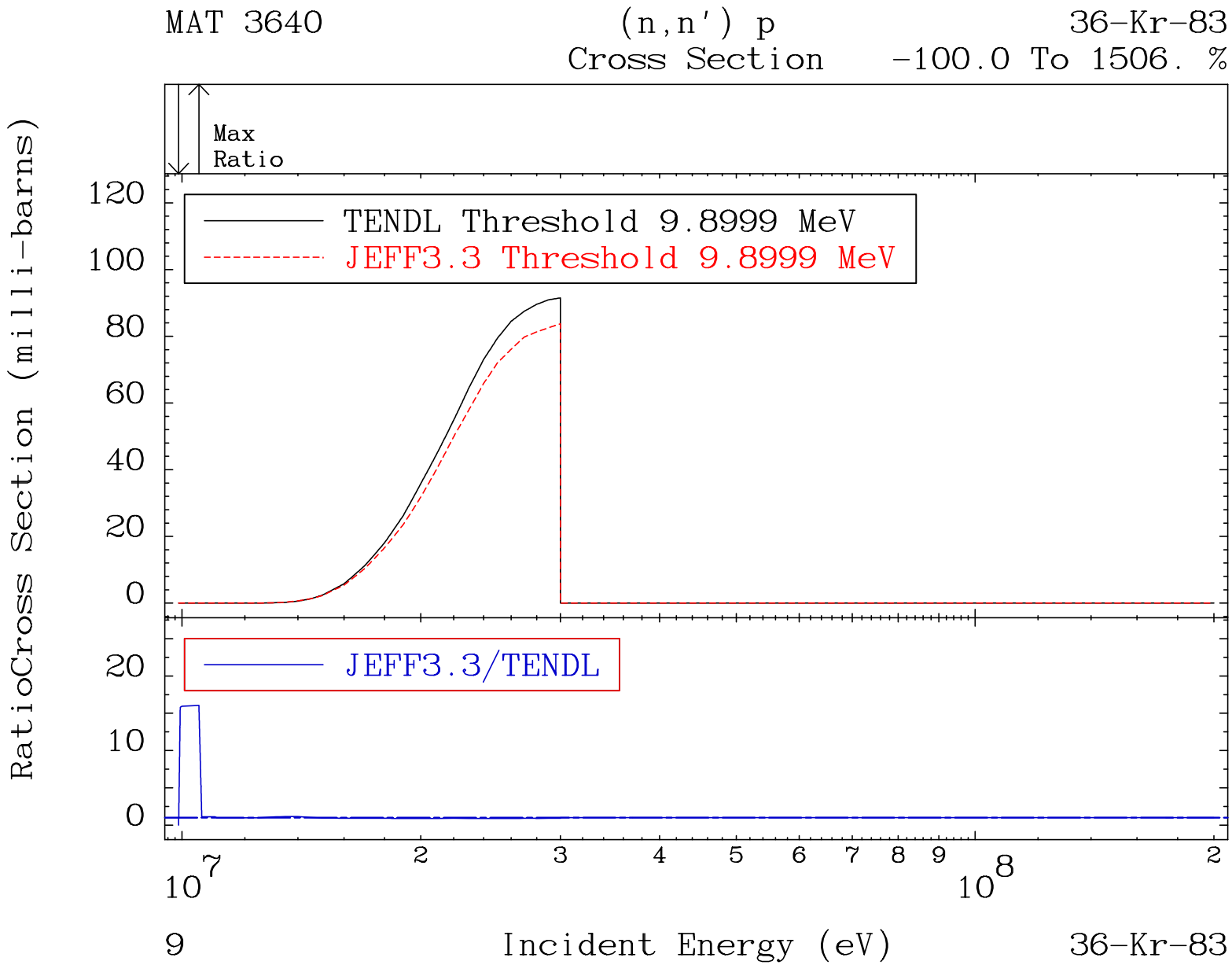

MAT 3640
(n,2n) d
Cross Section
36-Kr-83
-49.80 To 9999. %
Max
Ratio
TENDL Threshold 25.617 MeV
JEFF3.3 Threshold 25.617 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
16
12
8
4
0
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
36-Kr-83

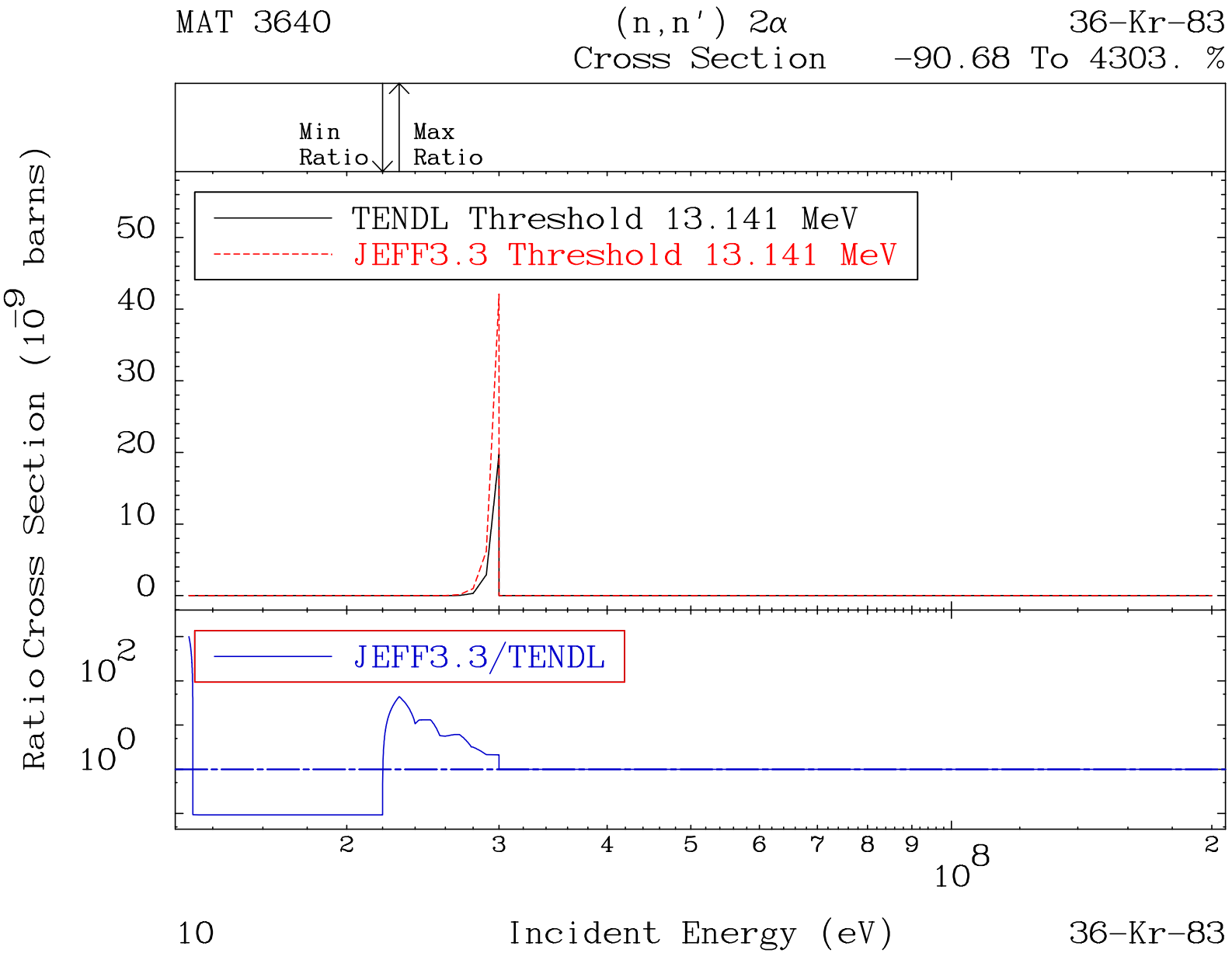

MAT 3640
(n,2n)
Cross Section
36-Kr-83
-100.0 To 304.7 %
Max
Ratio
TENDL Threshold 7.5610 MeV
JEFF3.3 Threshold 7.5619 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
6
4
2
0
8
10^7
2
3
4
5
6
7
8
10^8
2
Incident Energy (eV)
5
36-Kr-83

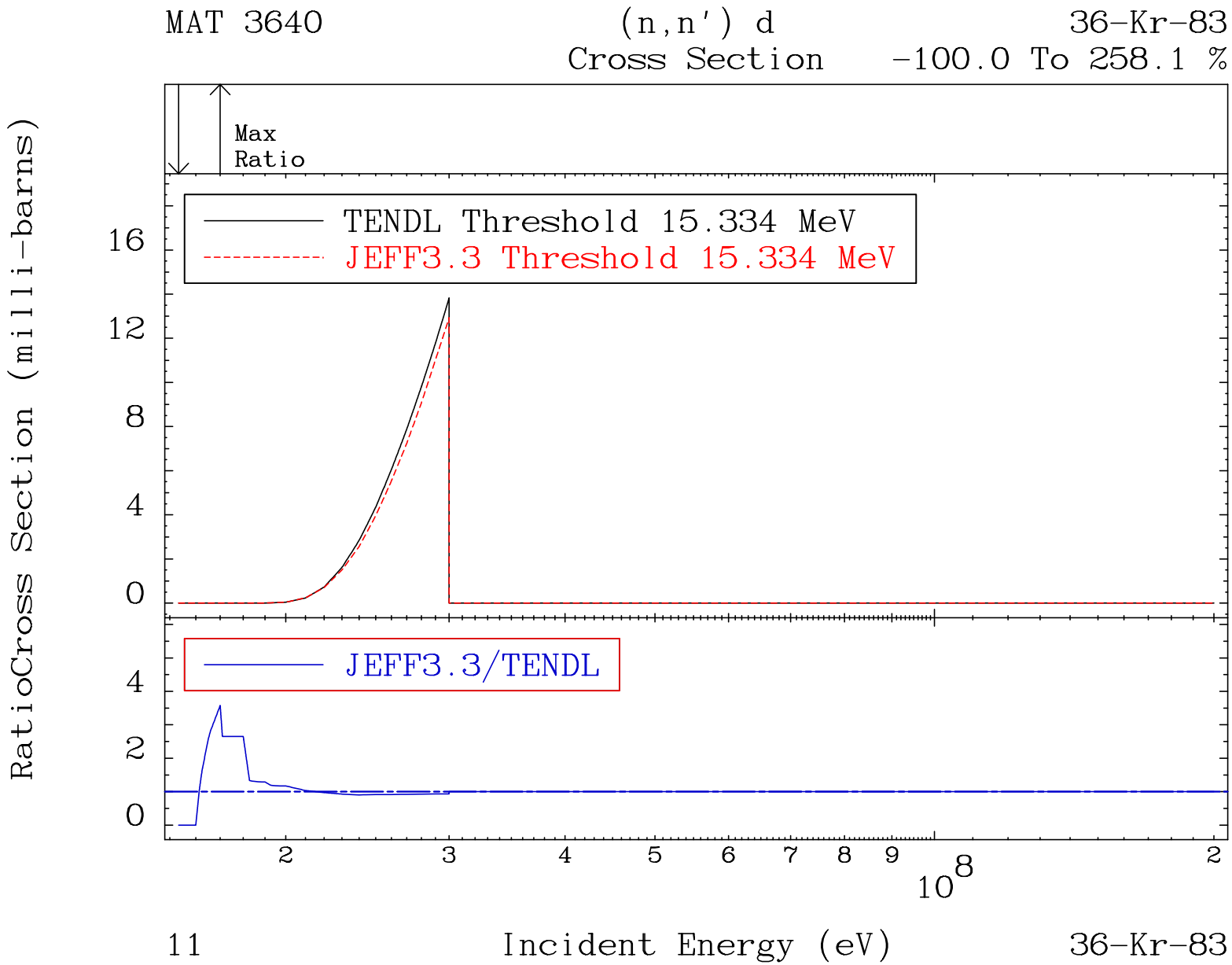

MAT 3640
(n,3n)
Cross Section
36-Kr-83
-100.0 To 414.1 %
Max
Ratio
TENDL Threshold 18.661 MeV
JEFF3.3 Threshold 18.661 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
8
4
0
2
3
4
5
6
7
8
9
2
10^8
6
Incident Energy (eV)
36-Kr-83

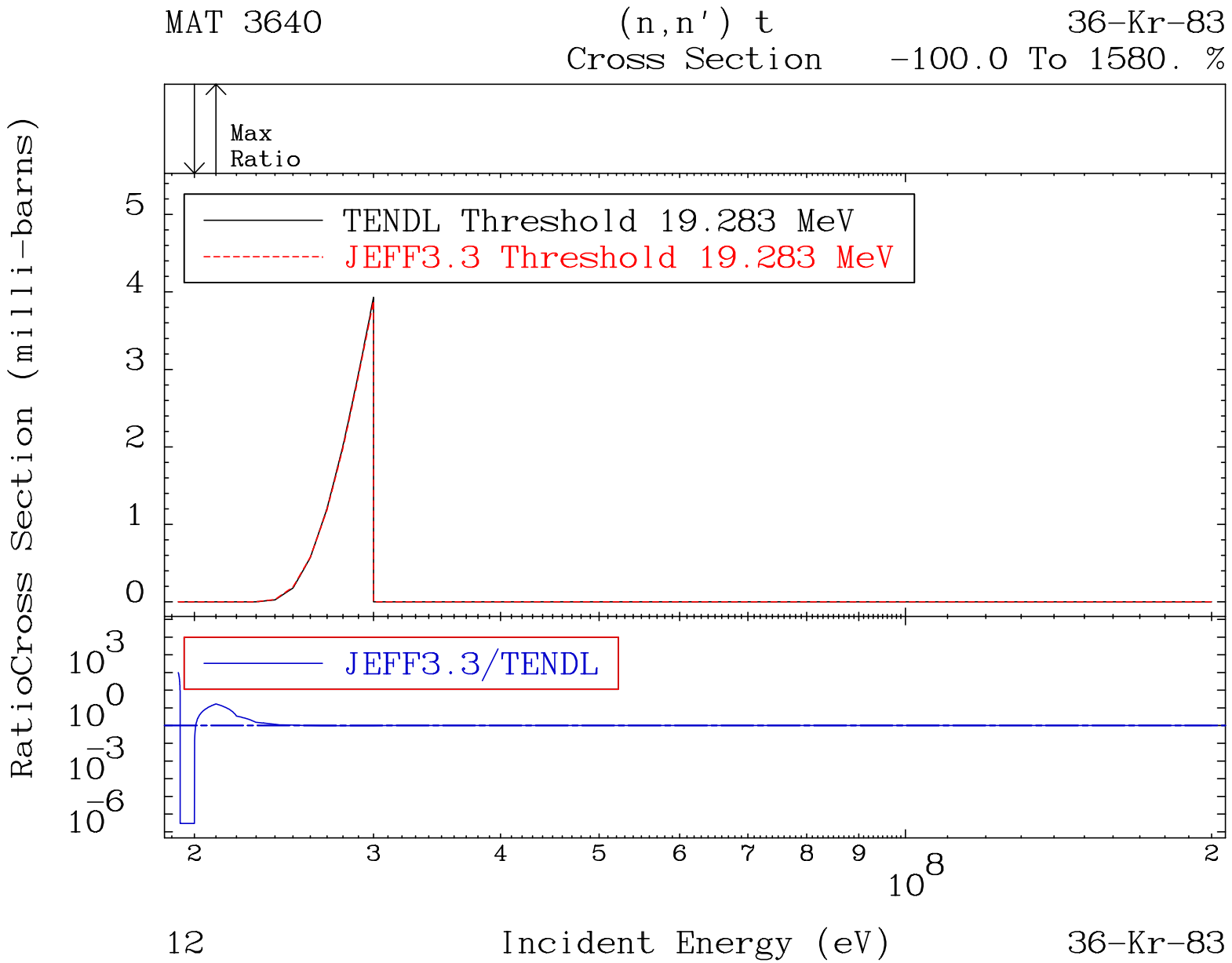

MAT 3640
(n,n') α
Cross Section
36-Kr-83
-2.896 To 6609. %
Max Ratio
Min Ratio
TENDL Threshold 6.5771 MeV
JEFF3.3 Threshold 6.5771 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^2
10^1
10^0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
7
Incident Energy (eV)
36-Kr-83

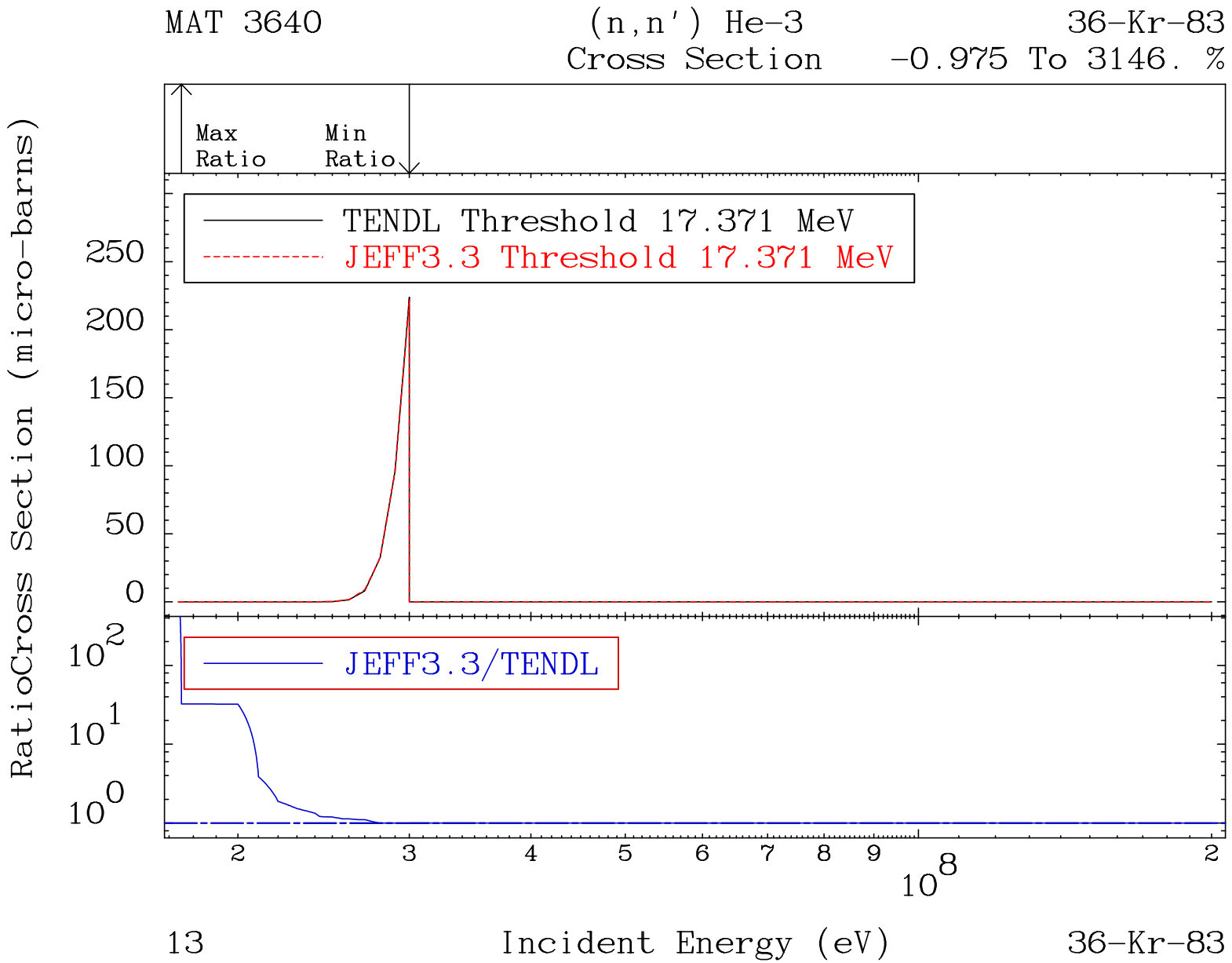

MAT 3640
(n,2n) α
Cross Section
36-Kr-83
-99.96 To 3244. %
Max
Ratio
TENDL Threshold 13.625 MeV
JEFF3.3 Threshold 13.625 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
10
8
6
4
2
0
10^3
10^0
10^-3
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
36-Kr-83

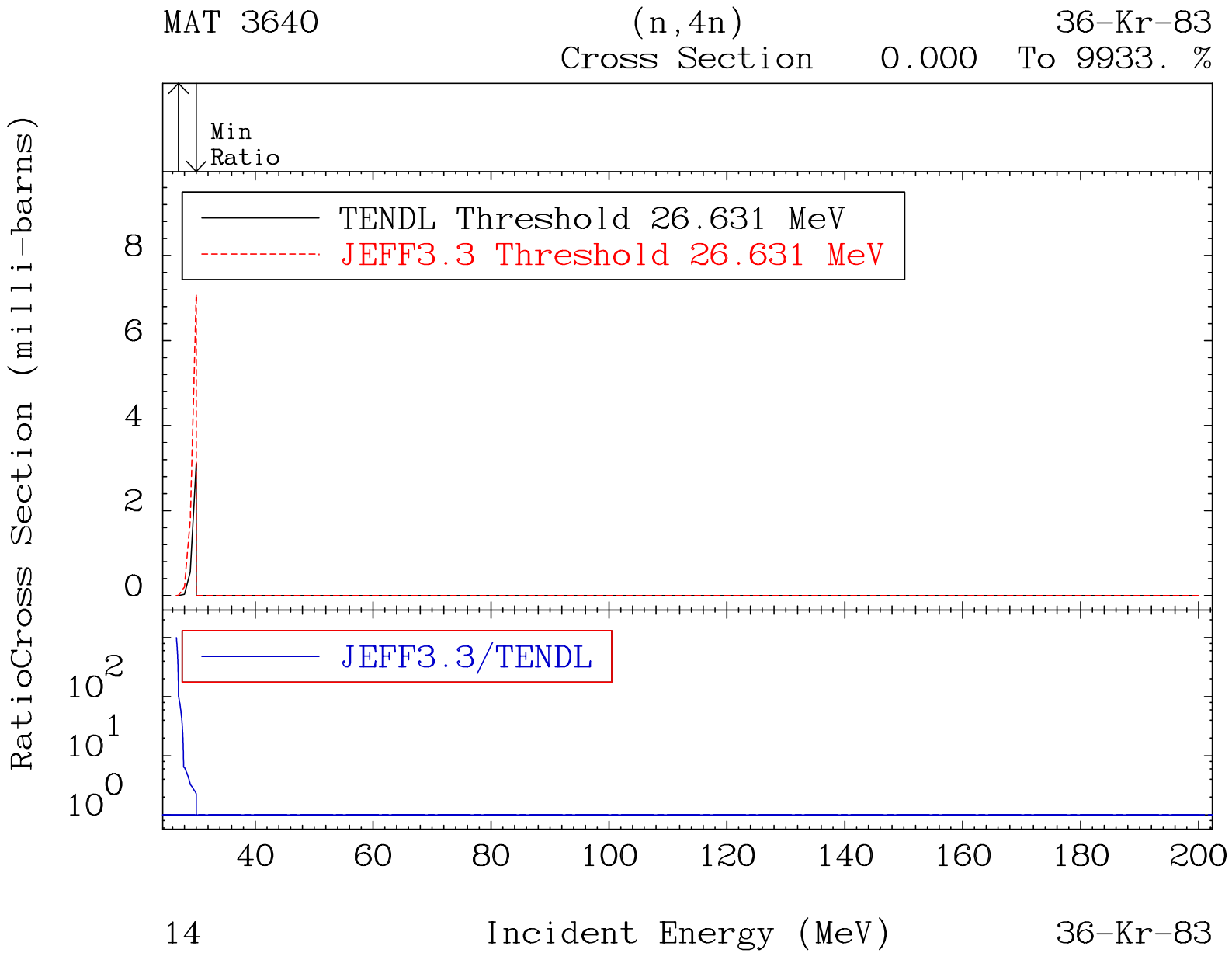

MAT 3640
(n,n') p
Cross Section
36-Kr-83
-100.0 To 1506. %
Max
Ratio
TENDL Threshold 9.8999 MeV
JEFF3.3 Threshold 9.8999 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
20
10
0
10^7
2
3
4
5
6
7
8
9
10^8
2
9
Incident Energy (eV)
36-Kr-83

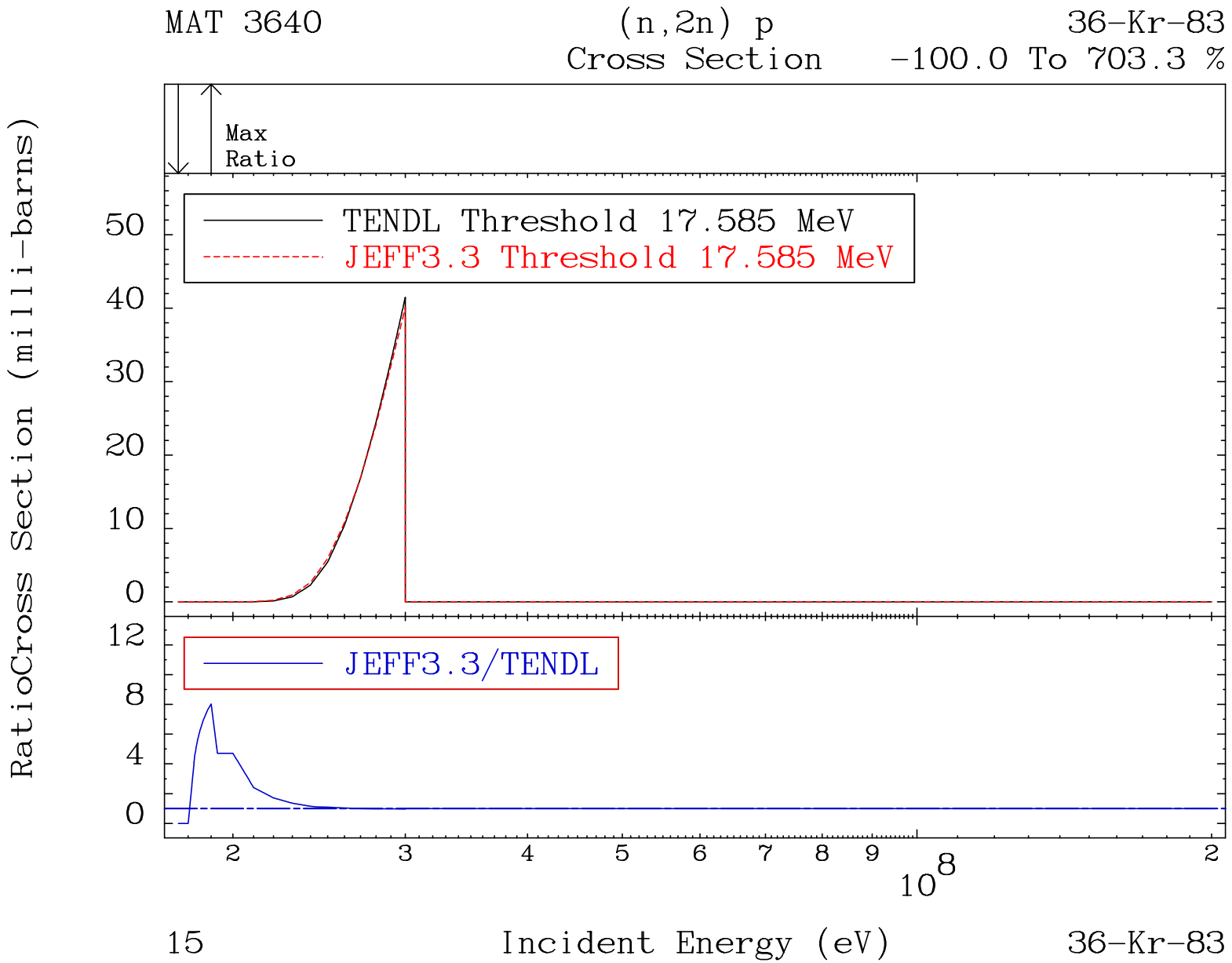

MAT 3640
(n,n') 2α
Cross Section
36-Kr-83
-90.68 To 4303. %
Min Ratio
Max Ratio
TENDL Threshold 13.141 MeV
JEFF3.3 Threshold 13.141 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
50
40
30
20
10
0
10^2
10^0
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
36-Kr-83

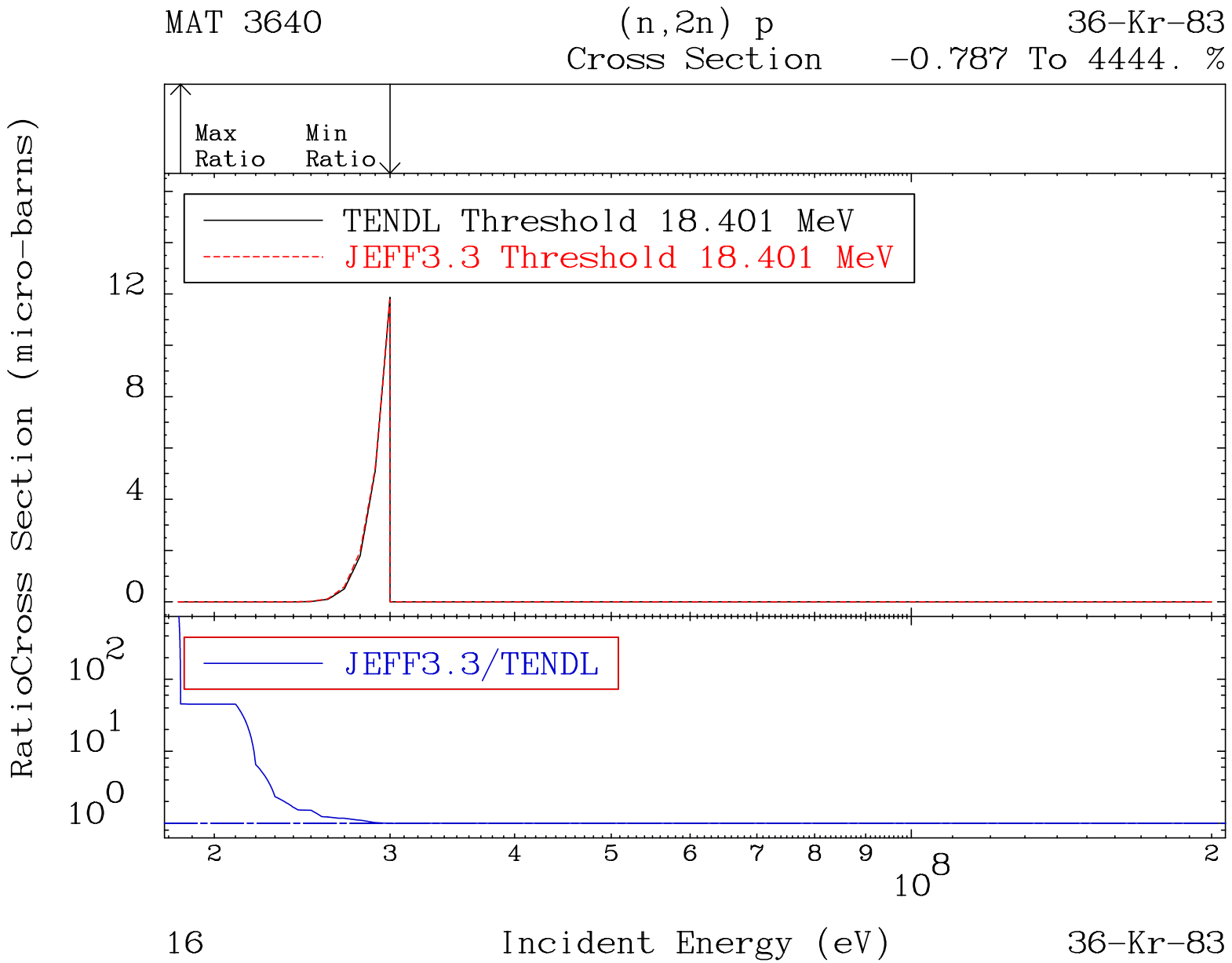

MAT 3640
(n,n') d
Cross Section
36-Kr-83
-100.0 To 258.1 %
Max
Ratio
TENDL Threshold 15.334 MeV
JEFF3.3 Threshold 15.334 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
36-Kr-83

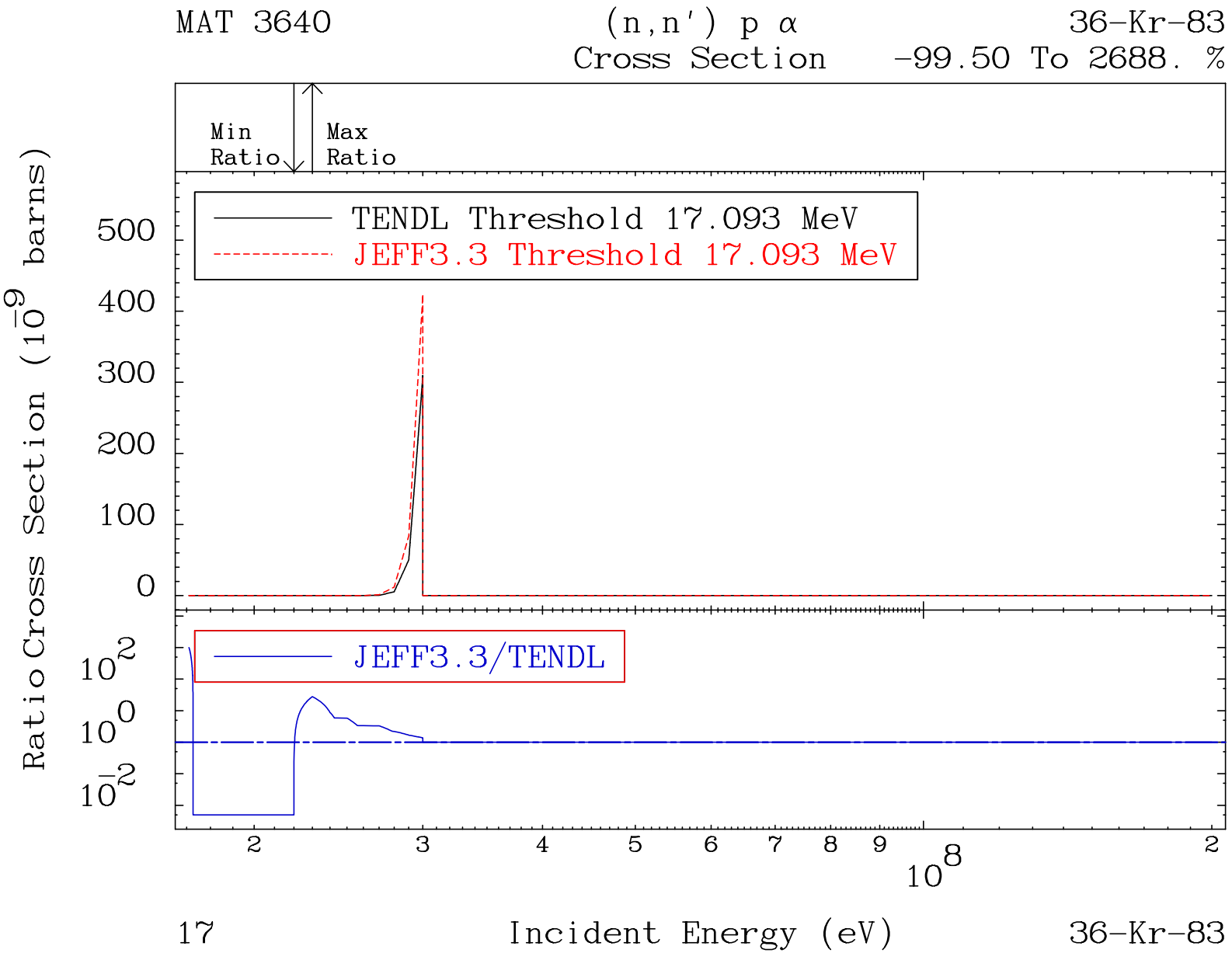

MAT 3640
(n,n') t
Cross Section
36-Kr-83
-100.0 To 1580. %
Max
Ratio
TENDL Threshold 19.283 MeV
JEFF3.3 Threshold 19.283 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
12
36-Kr-83

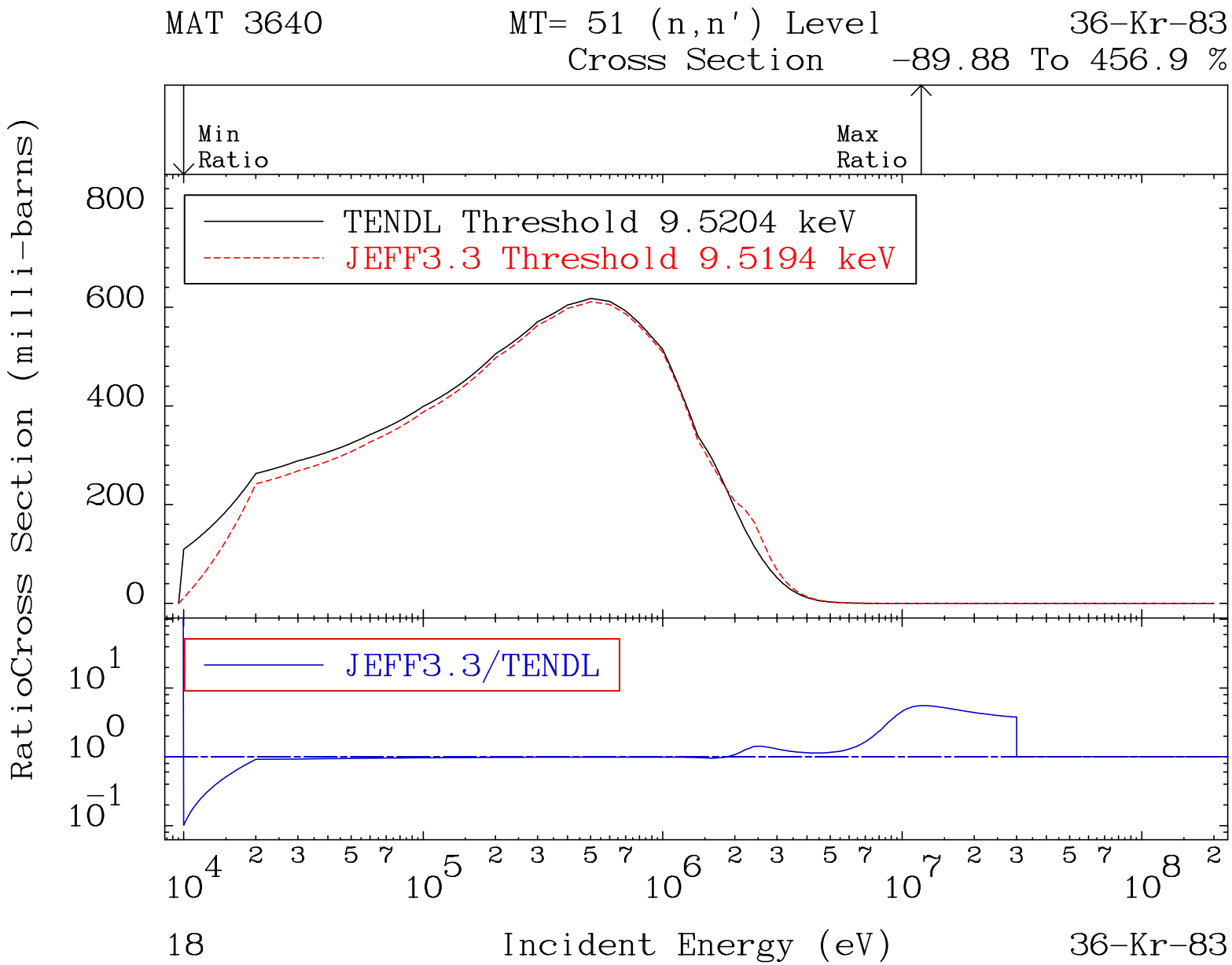

MAT 3640
(n,n') He-3
Cross Section
36-Kr-83
-0.975 To 3146. %
Max Ratio
Min Ratio
TENDL Threshold 17.371 MeV
JEFF3.3 Threshold 17.371 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
13
Incident Energy (eV)
36-Kr-83

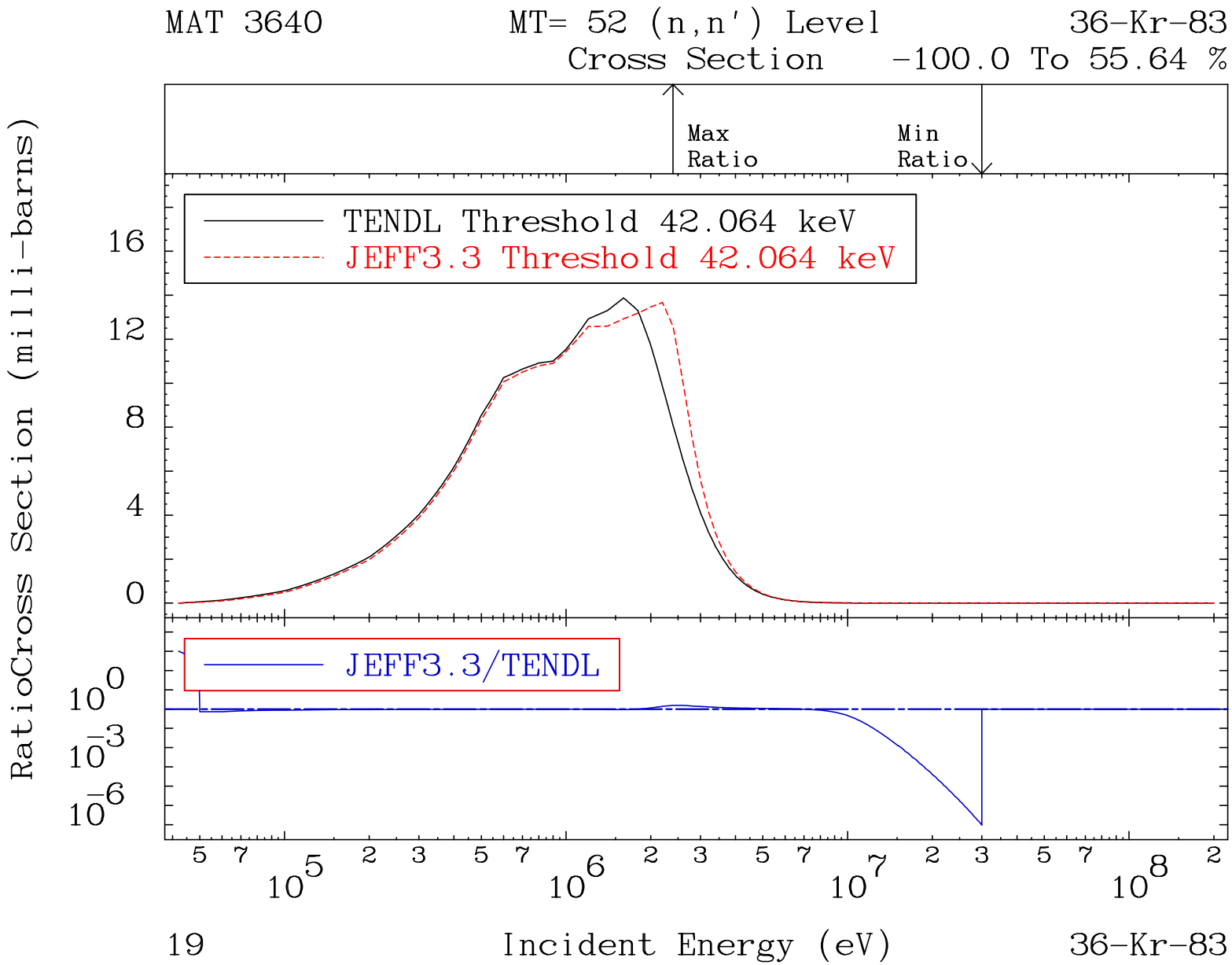

MAT 3640
(n,4n)
36-Kr-83
Cross Section 0.000 To 9933. %
Min
Ratio
TENDL Threshold 26.631 MeV
JEFF3.3 Threshold 26.631 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
10^0
10^1
10^2
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
36-Kr-83

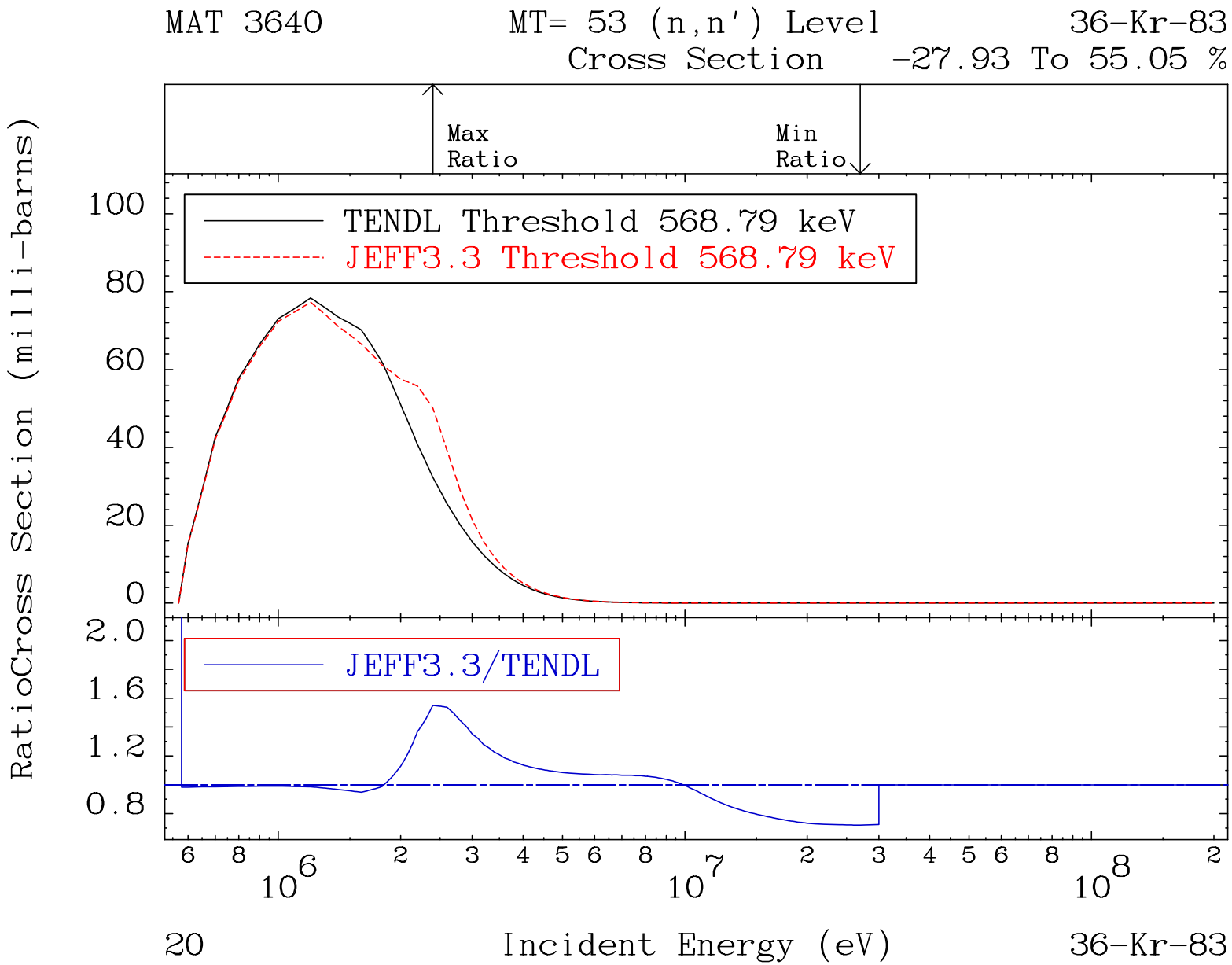

MAT 3640
(n,2n) p
Cross Section
36-Kr-83
-100.0 To 703.3 %
Max
Ratio
TENDL Threshold 17.585 MeV
JEFF3.3 Threshold 17.585 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
12
8
4
0
2
3
4
5
6
7
8
9
2
10^8
15
Incident Energy (eV)
36-Kr-83

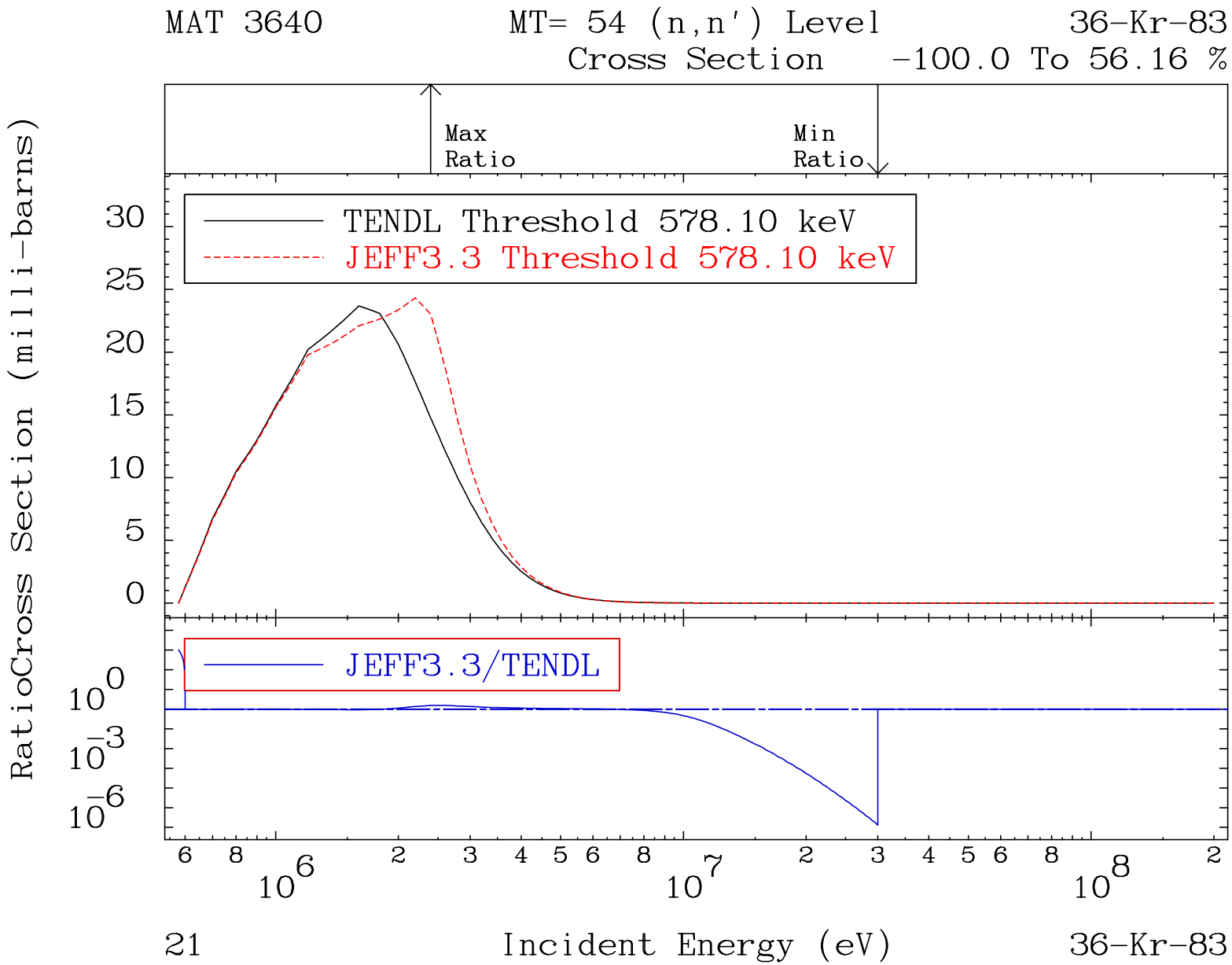

MAT 3640
(n,2n) p
Cross Section
36-Kr-83
-0.787 To 4444. %
Max Ratio
Min Ratio
TENDL Threshold 18.401 MeV
JEFF3.3 Threshold 18.401 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
12
8
4
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
16
Incident Energy (eV)
36-Kr-83

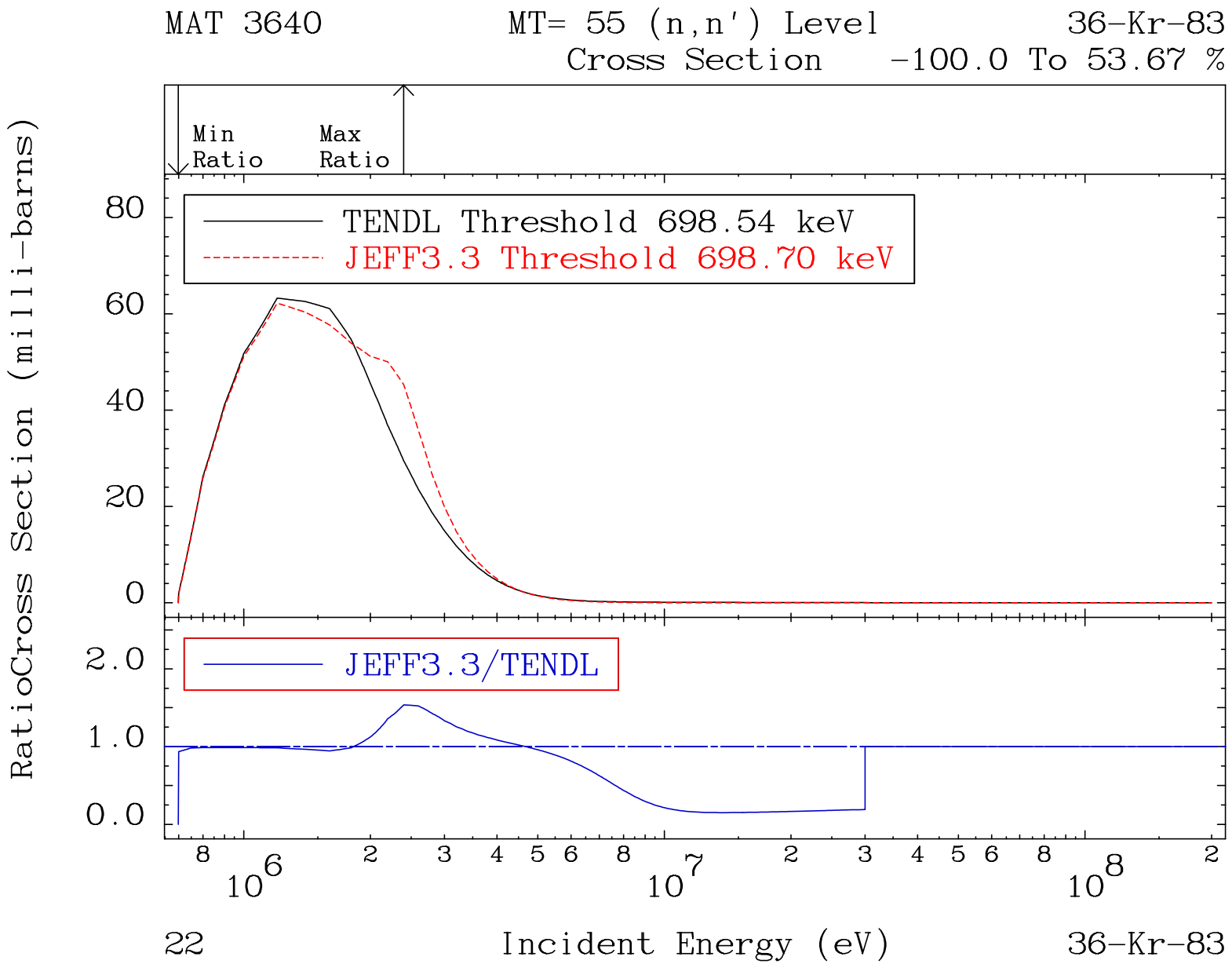

MAT 3640
(n,n') p α
Cross Section
36-Kr-83
-99.50 To 2688. %
Min Ratio
Max Ratio
TENDL Threshold 17.093 MeV
JEFF3.3 Threshold 17.093 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
500
400
300
200
100
0
10^2
10^0
10^-2
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
36-Kr-83

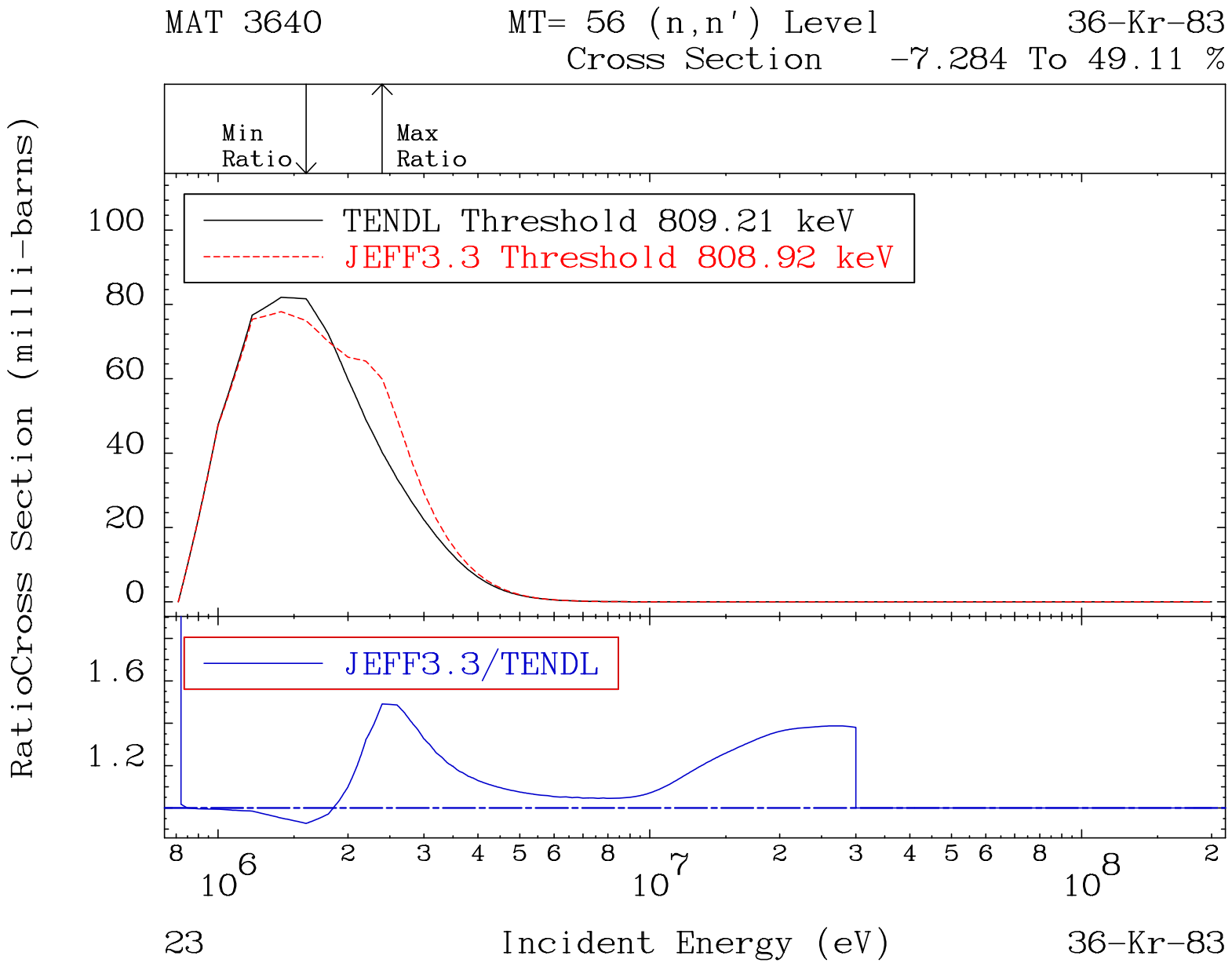

MAT 3640
MT= 51 (n,n') Level
Cross Section
36-Kr-83
-89.88 To 456.9 %
Min Ratio
Max Ratio
TENDL Threshold 9.5204 keV
JEFF3.3 Threshold 9.5194 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
10^1
10^0
10^-1
10^4
10^5
10^6
10^7
10^8
2 3 5 7
18
Incident Energy (eV)
36-Kr-83

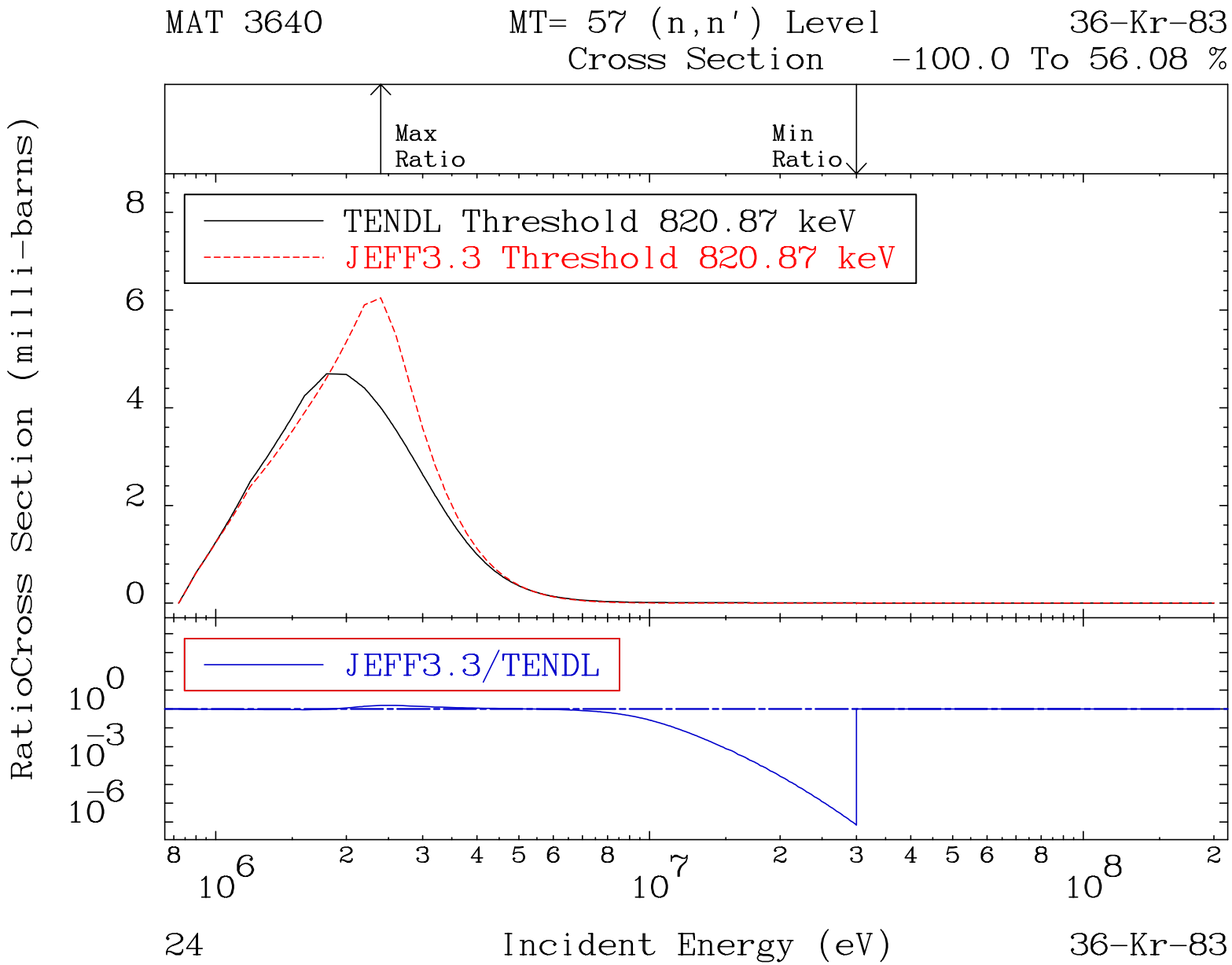

MAT 3640
MT= 52 (n,n') Level
Cross Section
36-Kr-83
-100.0 To 55.64 %
Max Ratio
Min Ratio
TENDL Threshold 42.064 keV
JEFF3.3 Threshold 42.064 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
36-Kr-83

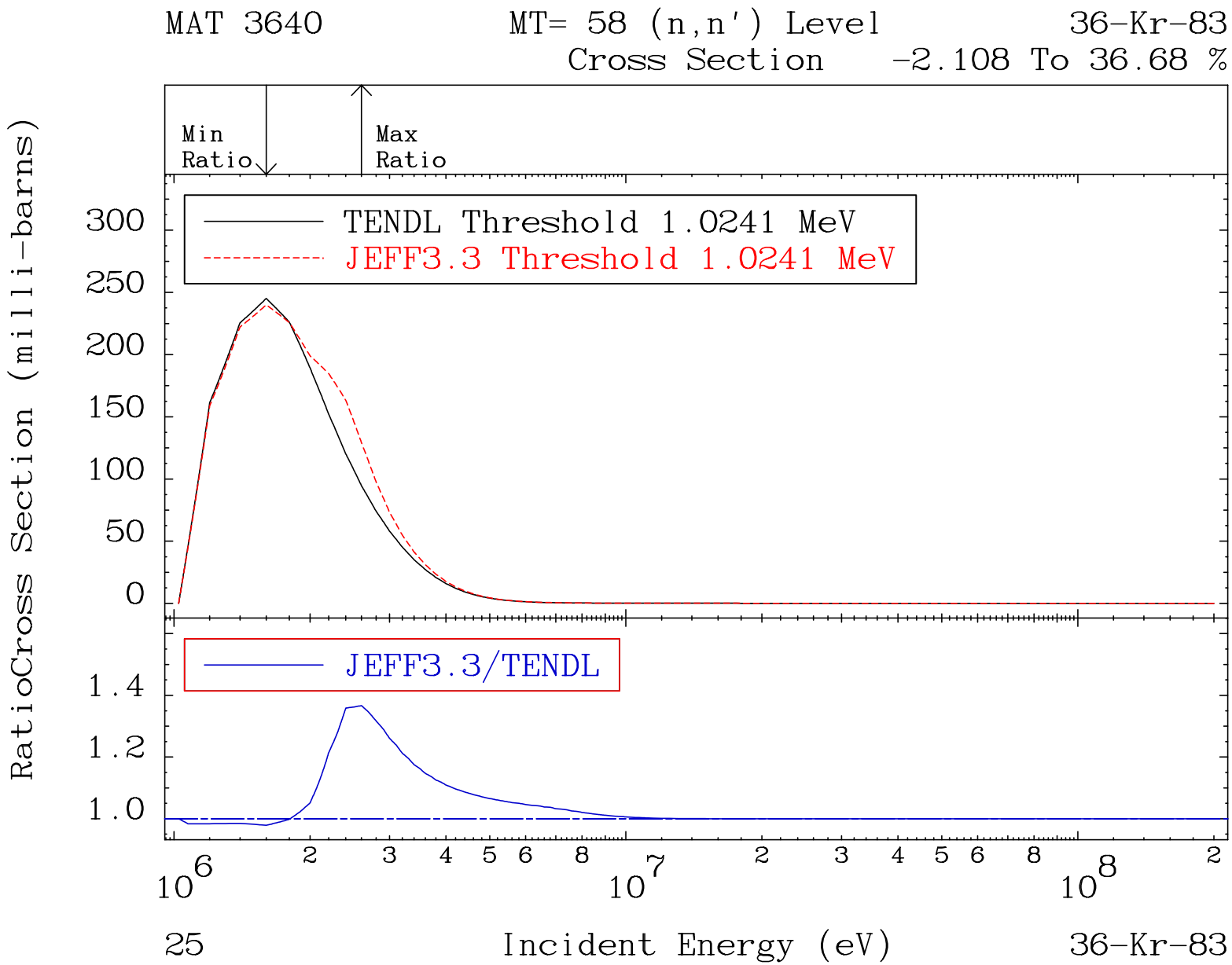

MAT 3640
MT= 53 (n,n') Level
Cross Section
36-Kr-83
-27.93 To 55.05 %
Max Ratio
Min Ratio
TENDL Threshold 568.79 keV
JEFF3.3 Threshold 568.79 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.0
1.6
1.2
0.8
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
20
Incident Energy (eV)
36-Kr-83

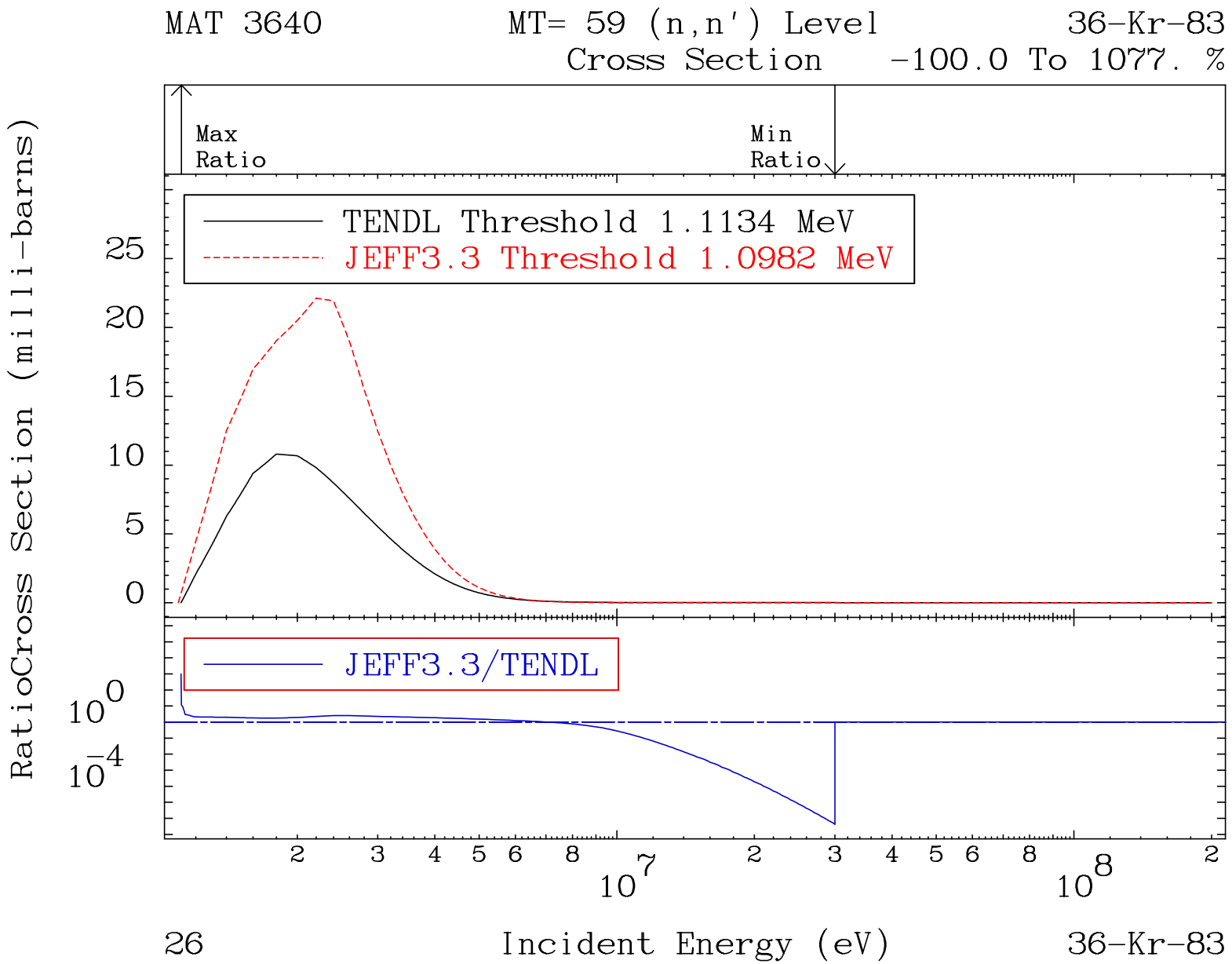

MAT 3640
MT= 54 (n,n') Level
36-Kr-83
Cross Section
-100.0 To 56.16 %
Max Ratio
Min Ratio
TENDL Threshold 578.10 keV
JEFF3.3 Threshold 578.10 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
36-Kr-83

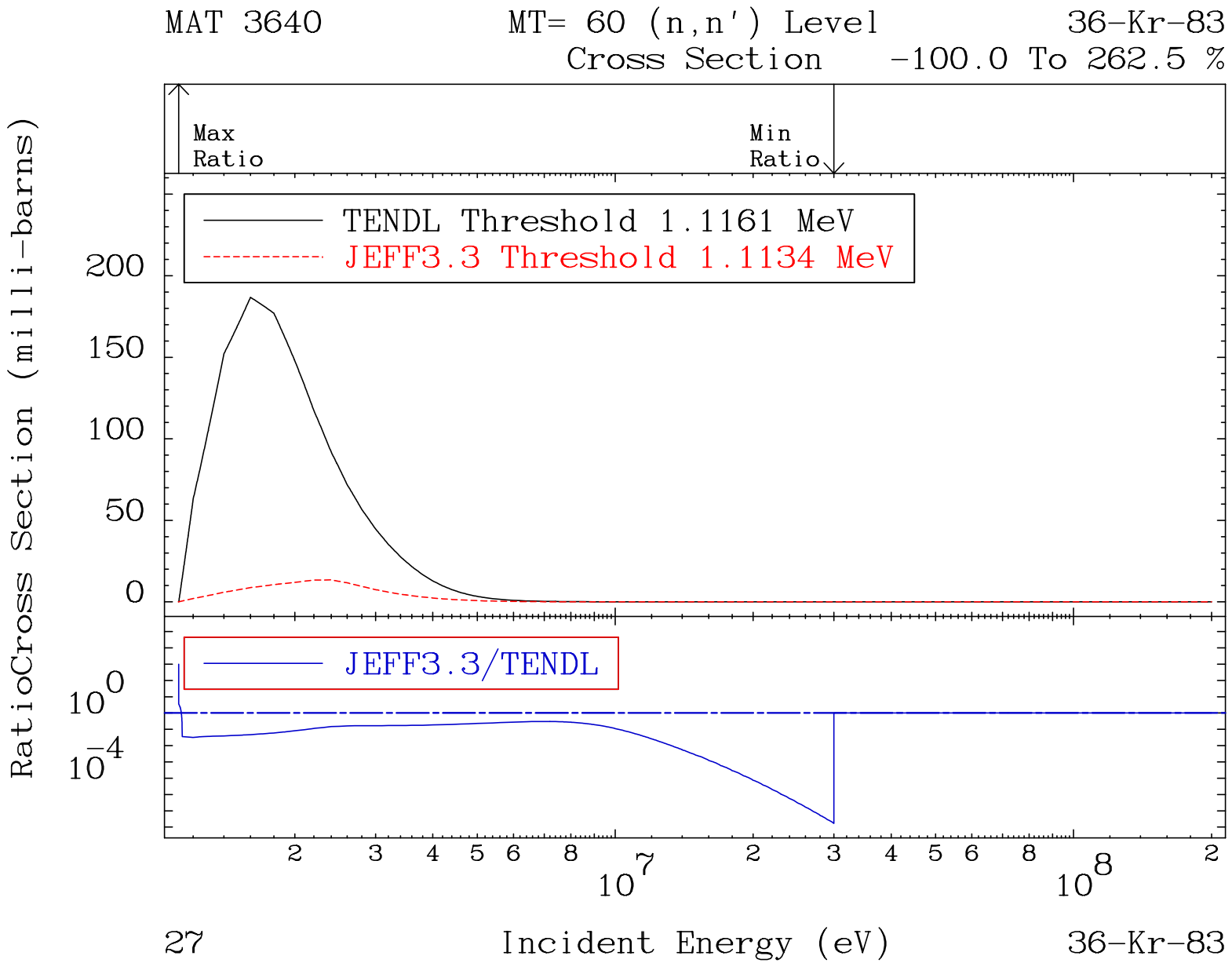

MAT 3640
MT= 55 (n,n') Level
36-Kr-83
Cross Section
-100.0 To 53.67 %
Min Ratio
Max Ratio
TENDL Threshold 698.54 keV
JEFF3.3 Threshold 698.70 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
22
36-Kr-83

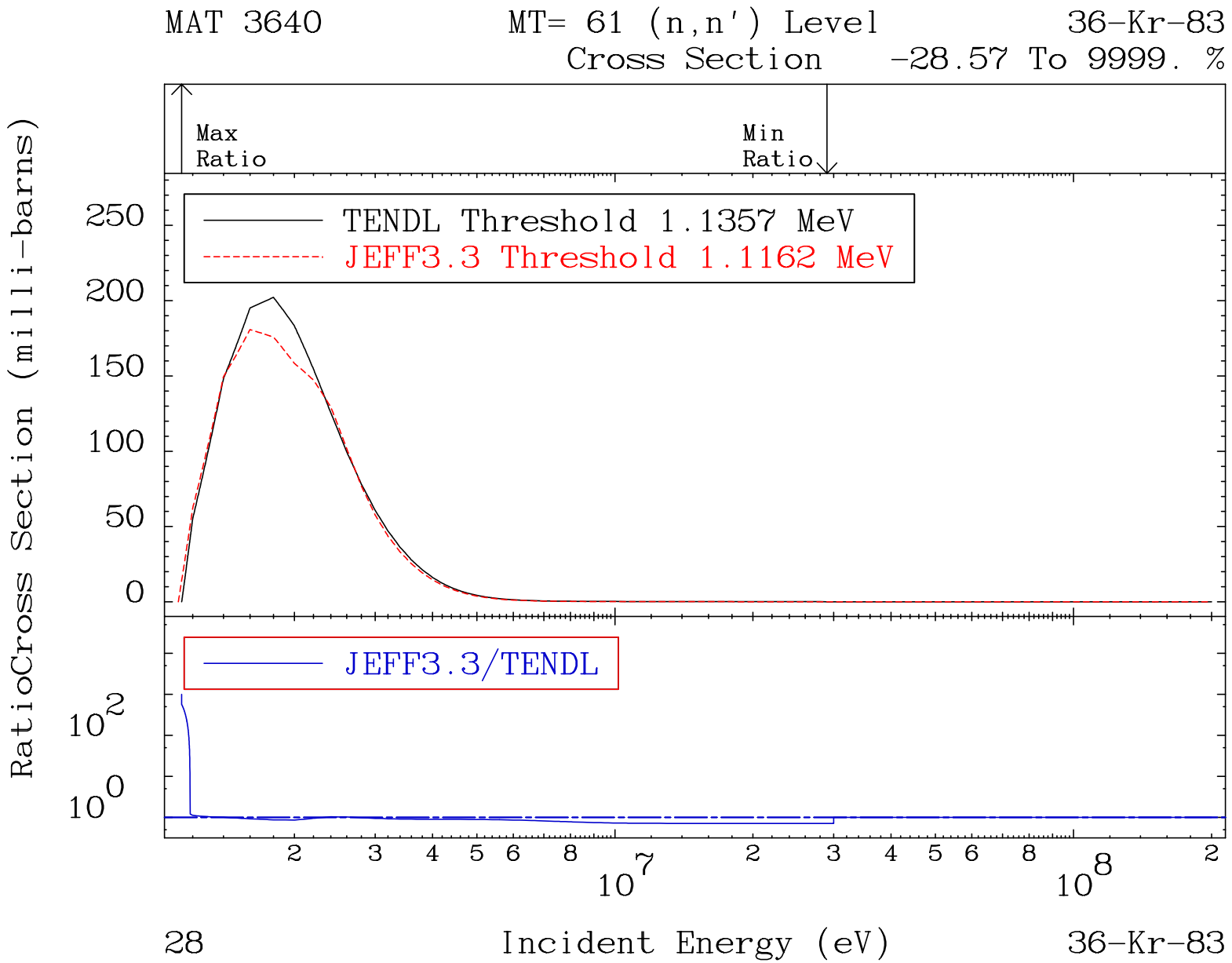

MAT 3640
MT= 56 (n,n') Level
36-Kr-83
Cross Section
-7.284 To 49.11 %
Min Ratio
Max Ratio
TENDL Threshold 809.21 keV
JEFF3.3 Threshold 808.92 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
1.6
1.2
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
23
Incident Energy (eV)
36-Kr-83

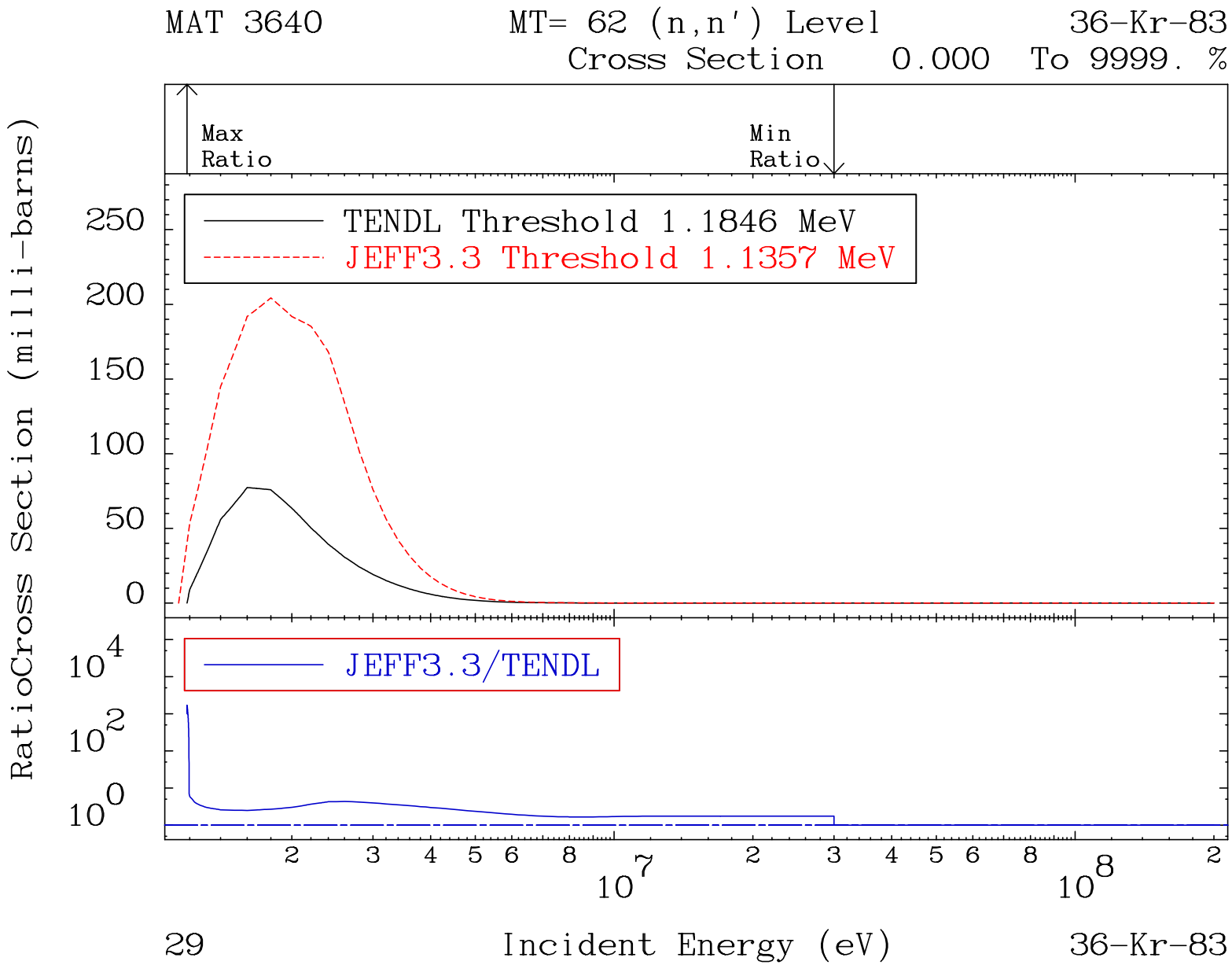

MAT 3640
MT= 57 (n,n') Level
36-Kr-83
Cross Section
-100.0 To 56.08 %
Max Ratio
Min Ratio
TENDL Threshold 820.87 keV
JEFF3.3 Threshold 820.87 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
24
36-Kr-83

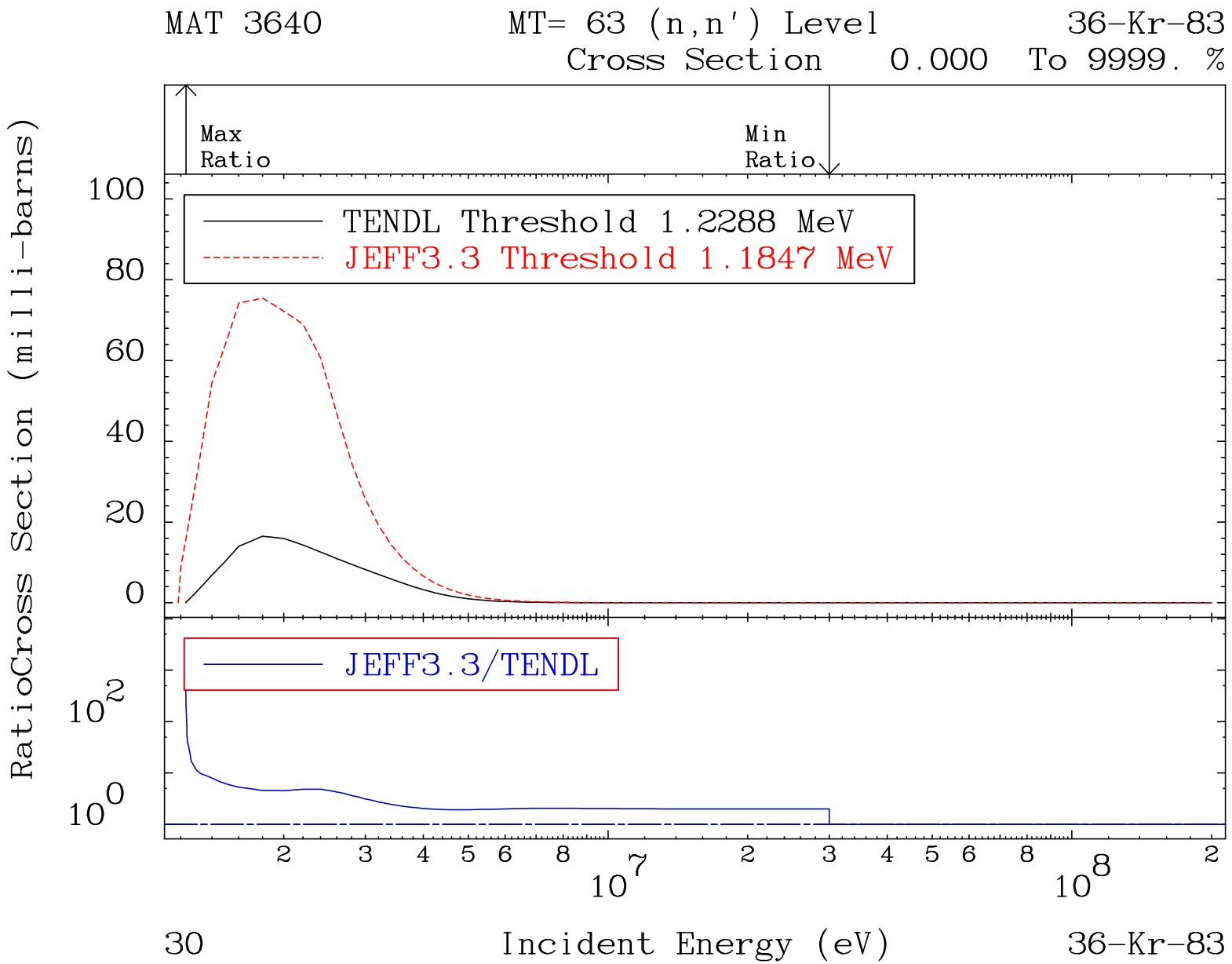

MAT 3640
MT= 58 (n,n') Level
36-Kr-83
Cross Section
-2.108 To 36.68 %
Min Ratio
Max Ratio
TENDL Threshold 1.0241 MeV
JEFF3.3 Threshold 1.0241 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.4
1.2
1.0
10^6
10^7
10^8
Incident Energy (eV)
25
36-Kr-83

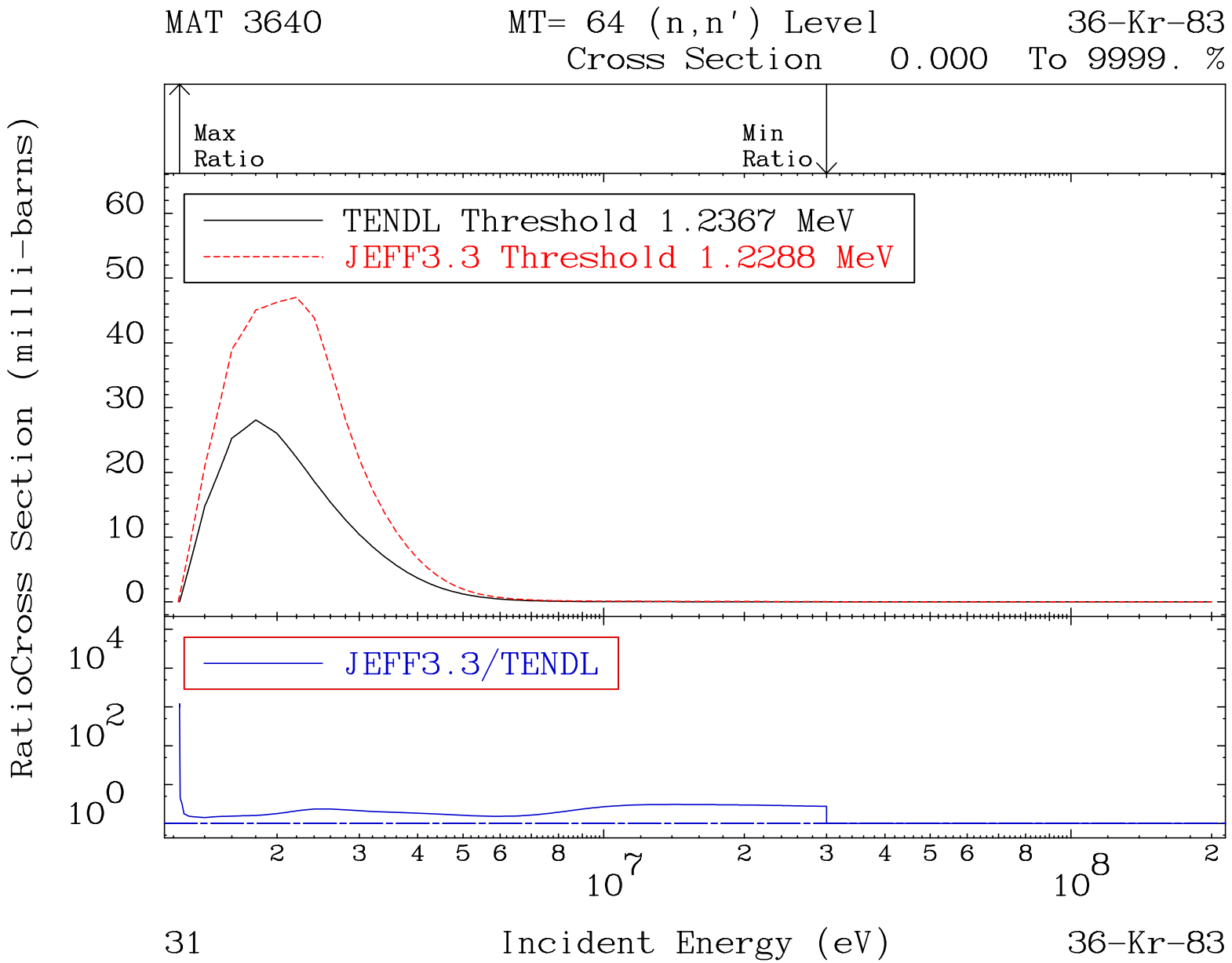

MAT 3640
MT= 59 (n,n') Level
36-Kr-83
Cross Section -100.0 To 1077. %
Max Ratio
Min Ratio
TENDL Threshold 1.1134 MeV
JEFF3.3 Threshold 1.0982 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
10^{0}
10^{-4}
2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
26
Incident Energy (eV)
36-Kr-83

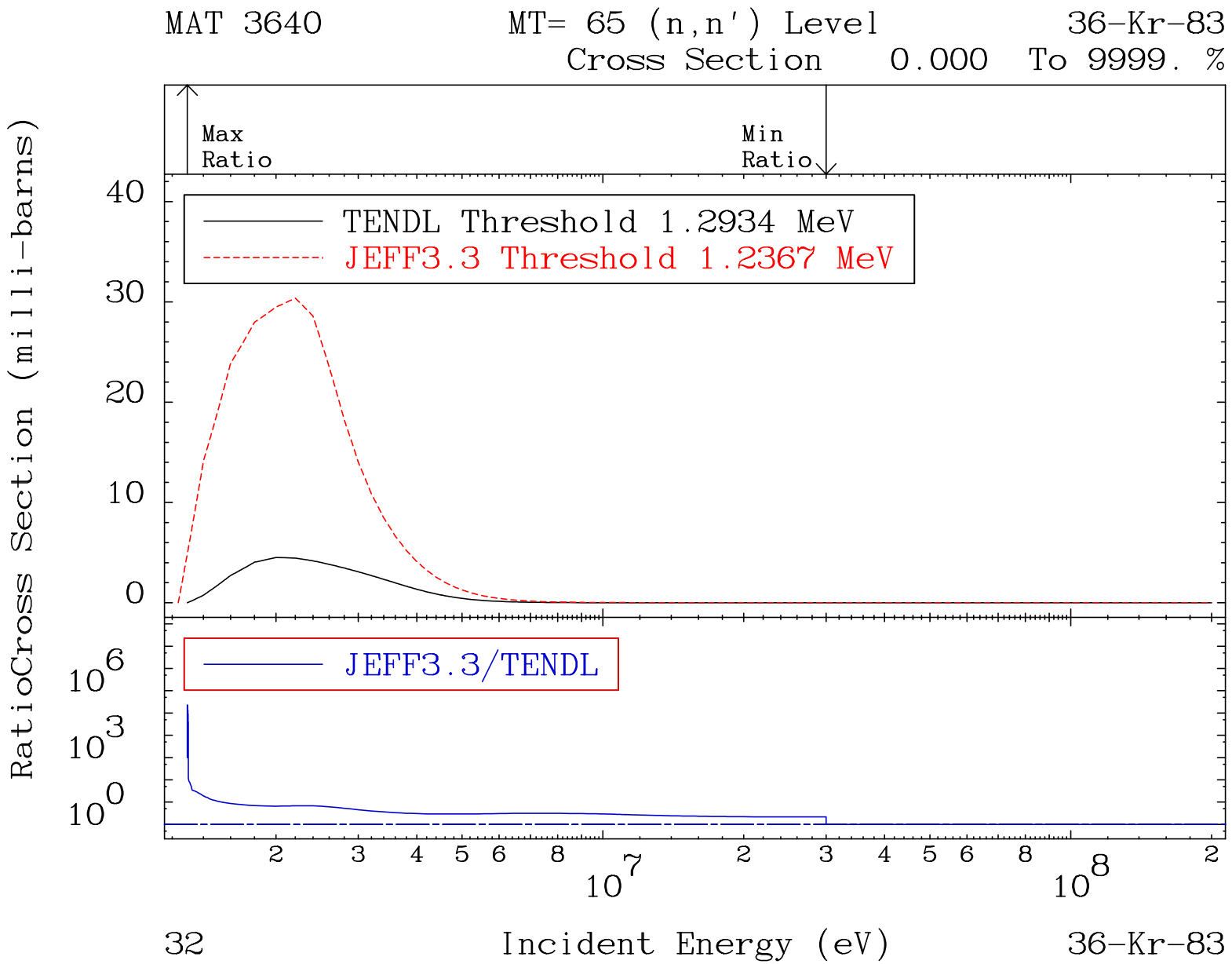

MAT 3640
MT= 60 (n,n') Level
36-Kr-83
Cross Section
-100.0 To 262.5 %
Max Ratio
Min Ratio
TENDL Threshold 1.1161 MeV
JEFF3.3 Threshold 1.1134 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
10^0
10^-4
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
36-Kr-83

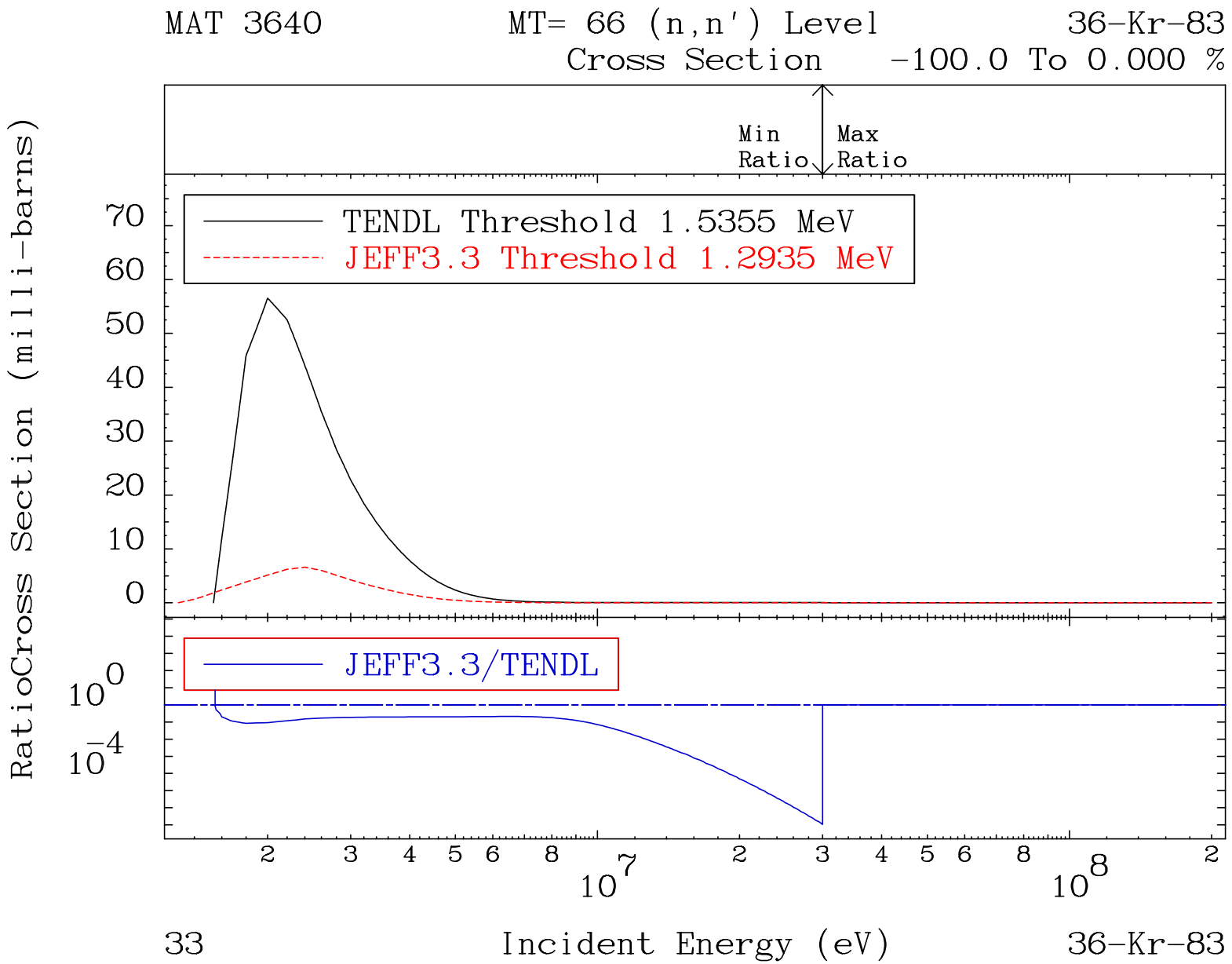

MAT 3640
MT= 61 (n,n') Level
36-Kr-83
Cross Section
-28.57 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 1.1357 MeV
JEFF3.3 Threshold 1.1162 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^2
10^0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
28
Incident Energy (eV)
36-Kr-83

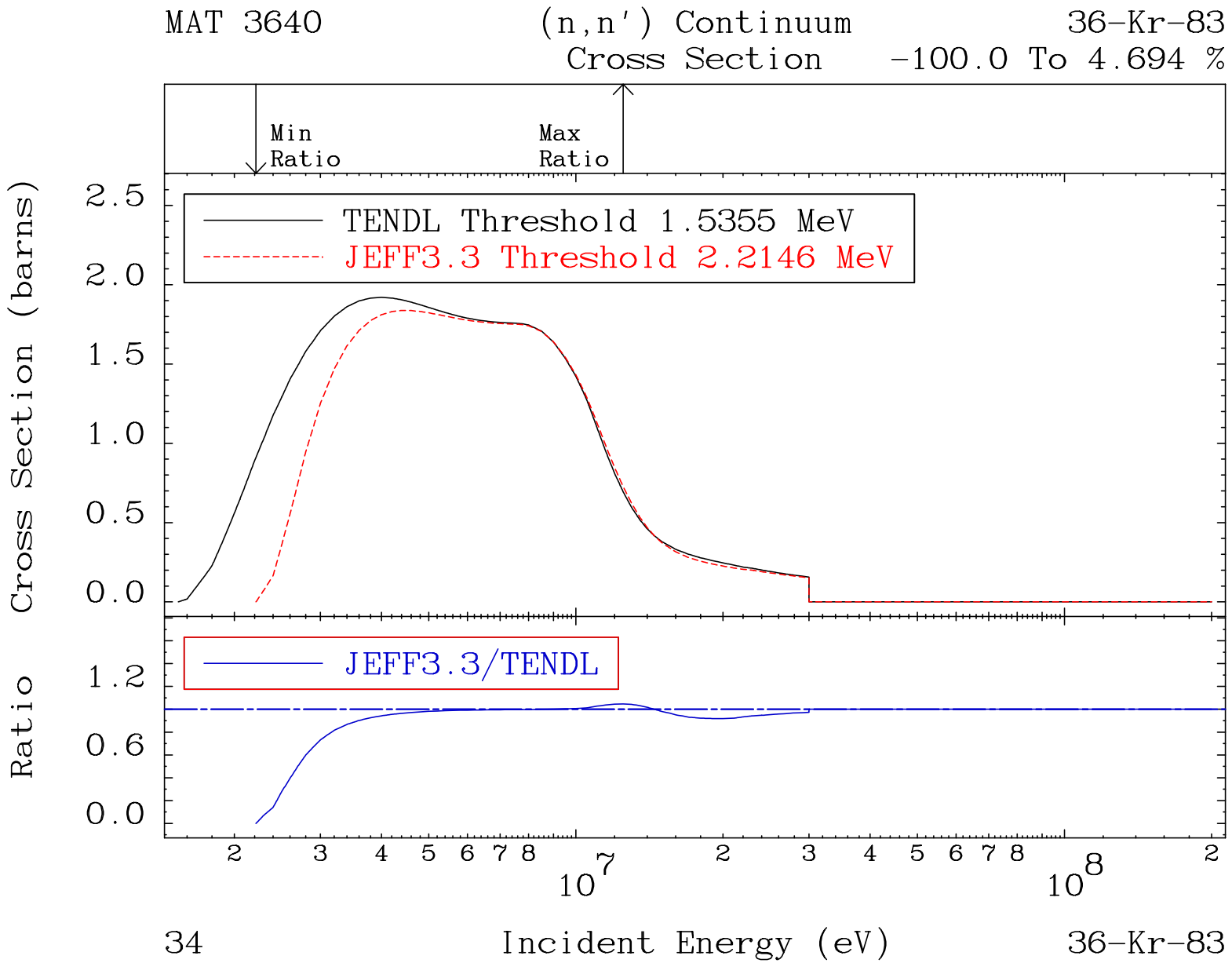

MAT 3640
MT= 62 (n,n') Level
36-Kr-83
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.1846 MeV
JEFF3.3 Threshold 1.1357 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^4
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
29
Incident Energy (eV)
36-Kr-83

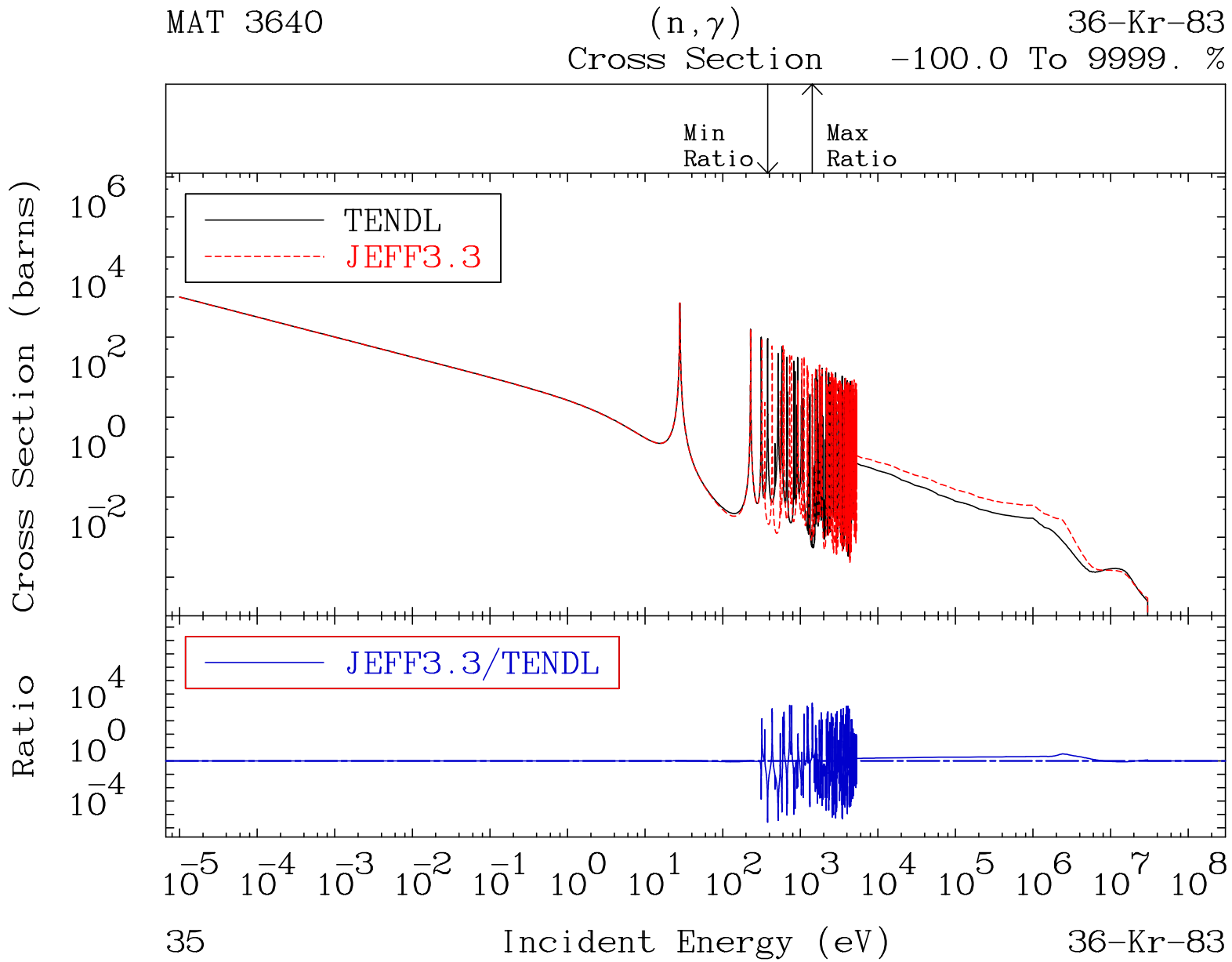

MAT 3640
MT= 63 (n,n') Level
36-Kr-83
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2288 MeV
JEFF3.3 Threshold 1.1847 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
30
Incident Energy (eV)
36-Kr-83

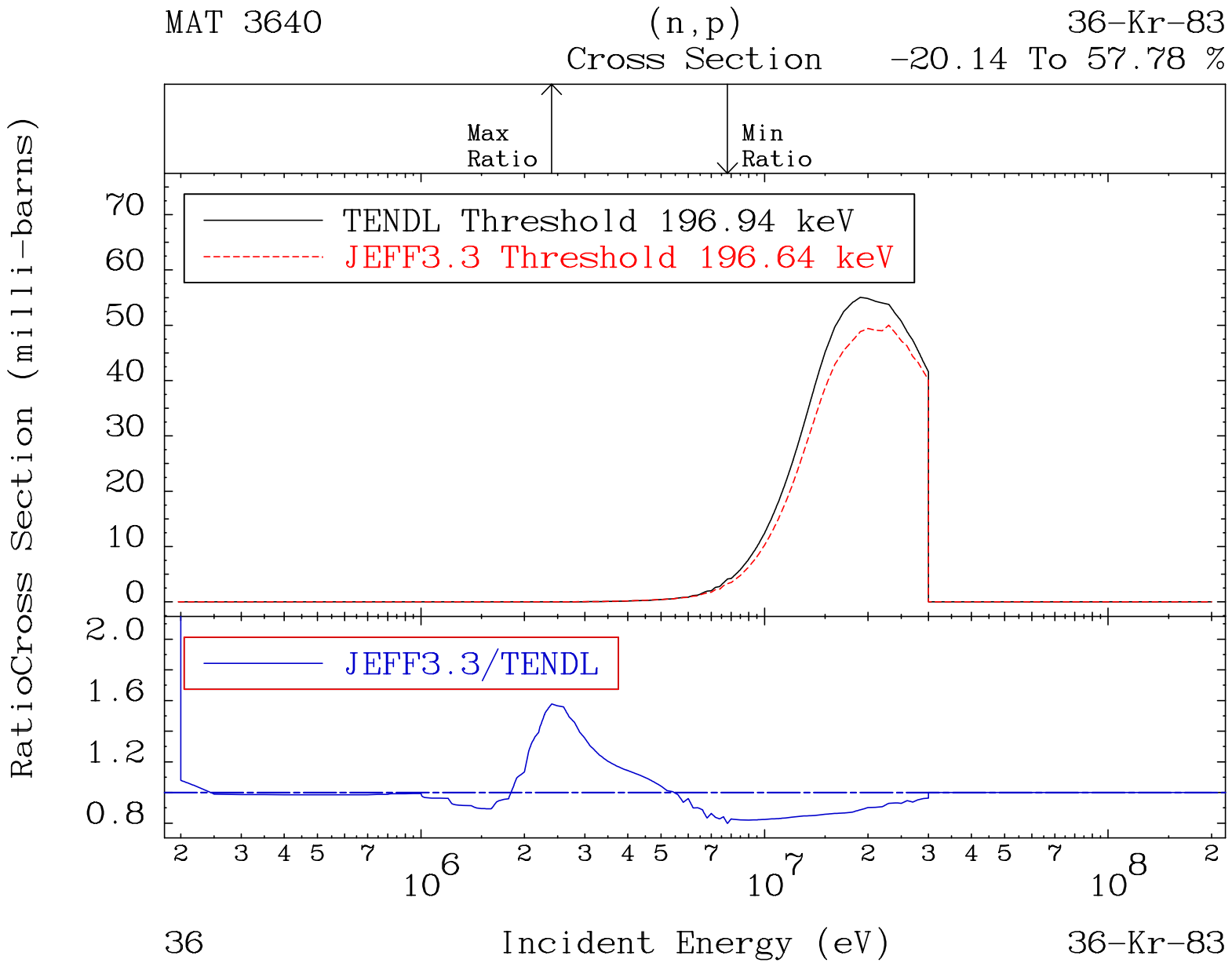

MAT 3640
MT= 64 (n,n') Level
36-Kr-83
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2367 MeV
JEFF3.3 Threshold 1.2288 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^4
10^2
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
31
Incident Energy (eV)
36-Kr-83

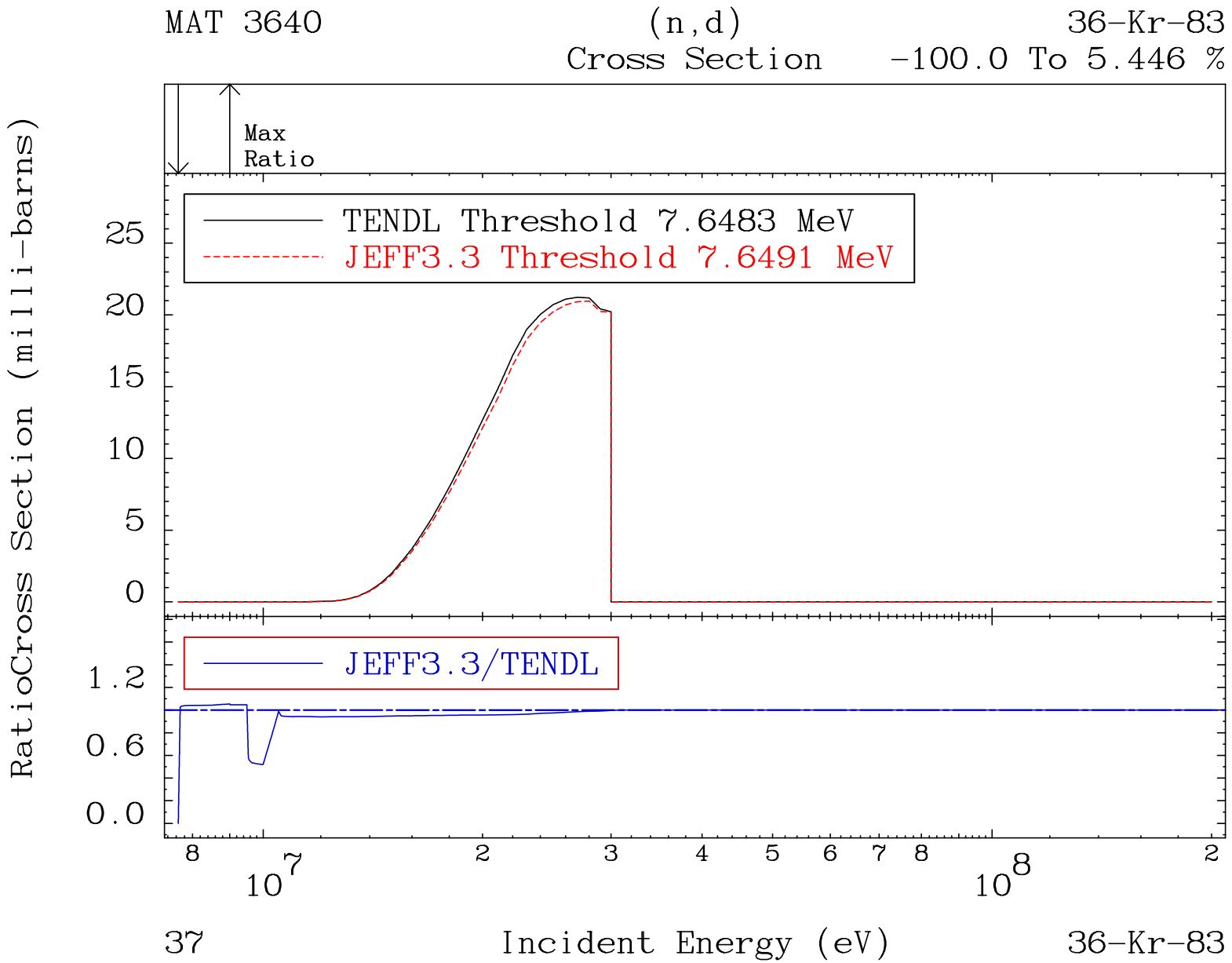

MAT 3640
MT= 65 (n,n') Level
36-Kr-83
Cross Section 0.000 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 1.2934 MeV
JEFF3.3 Threshold 1.2367 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^6
10^3
10^0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
32
Incident Energy (eV)
36-Kr-83

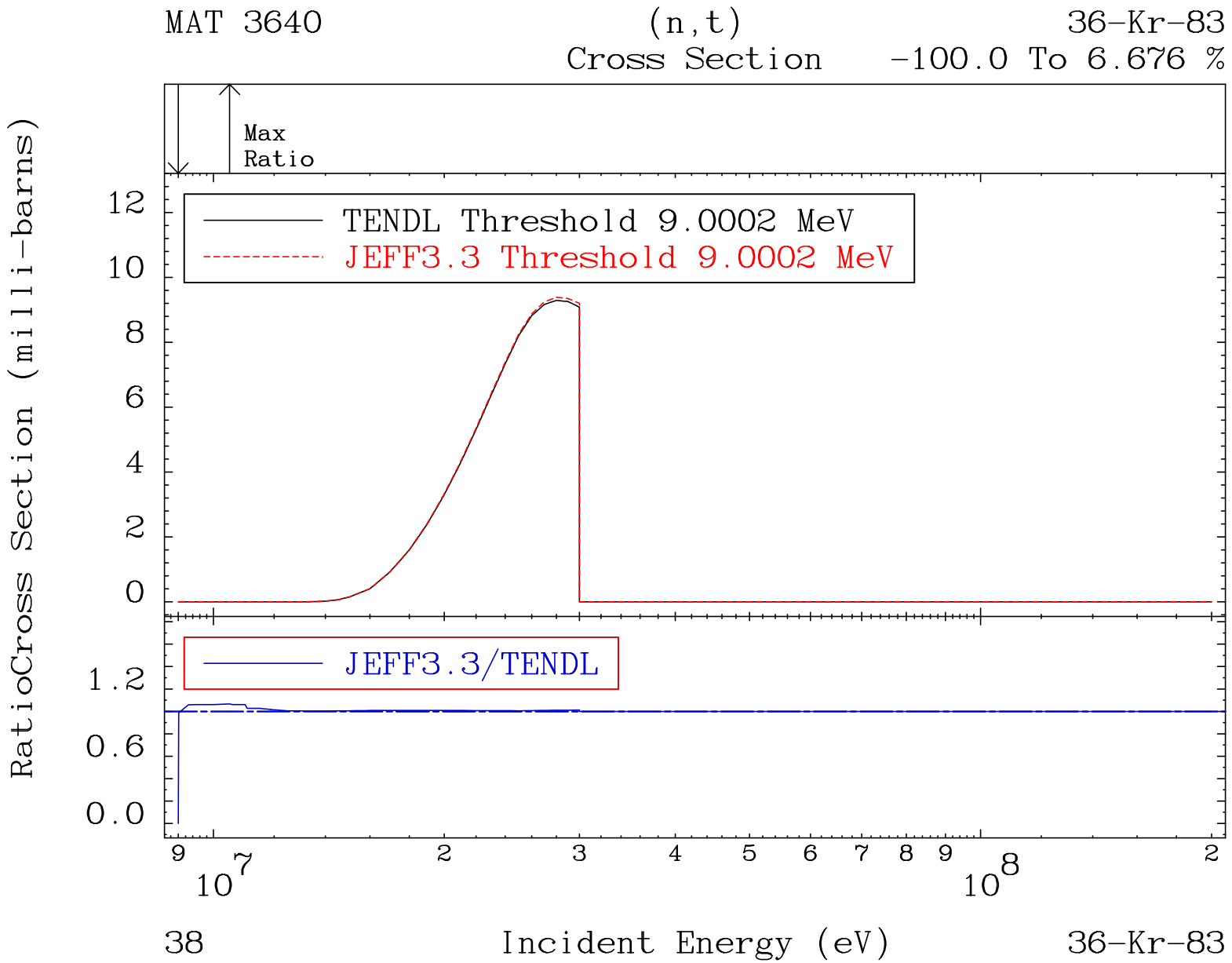

MAT 3640
MT= 66 (n,n') Level
36-Kr-83
Cross Section -100.0 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 1.5355 MeV
JEFF3.3 Threshold 1.2935 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
33
36-Kr-83

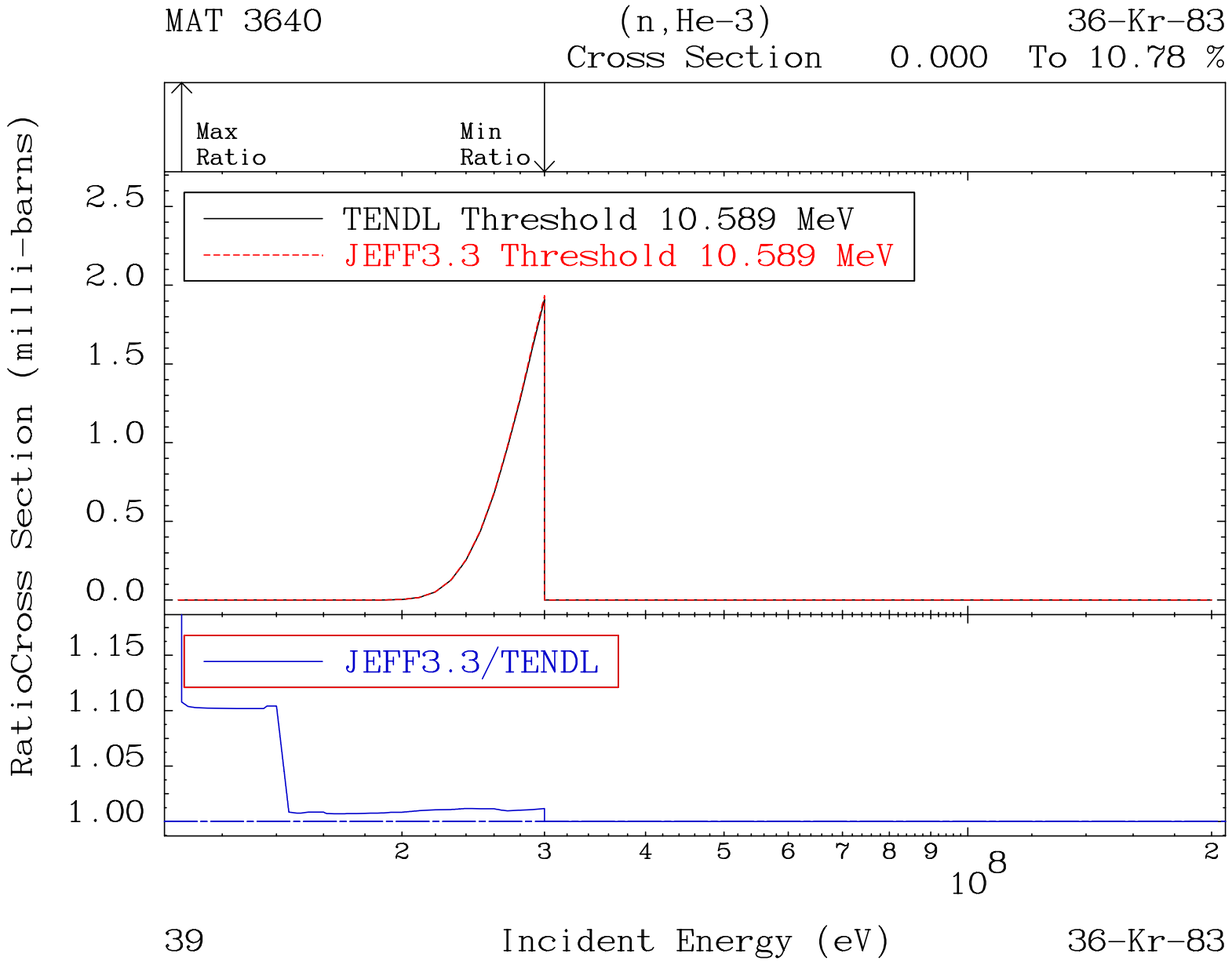

MAT 3640
(n,n') Continuum
Cross Section
36-Kr-83
-100.0 To 4.694 %
Min Ratio
Max Ratio
TENDL Threshold 1.5355 MeV
JEFF3.3 Threshold 2.2146 MeV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.5
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
36-Kr-83

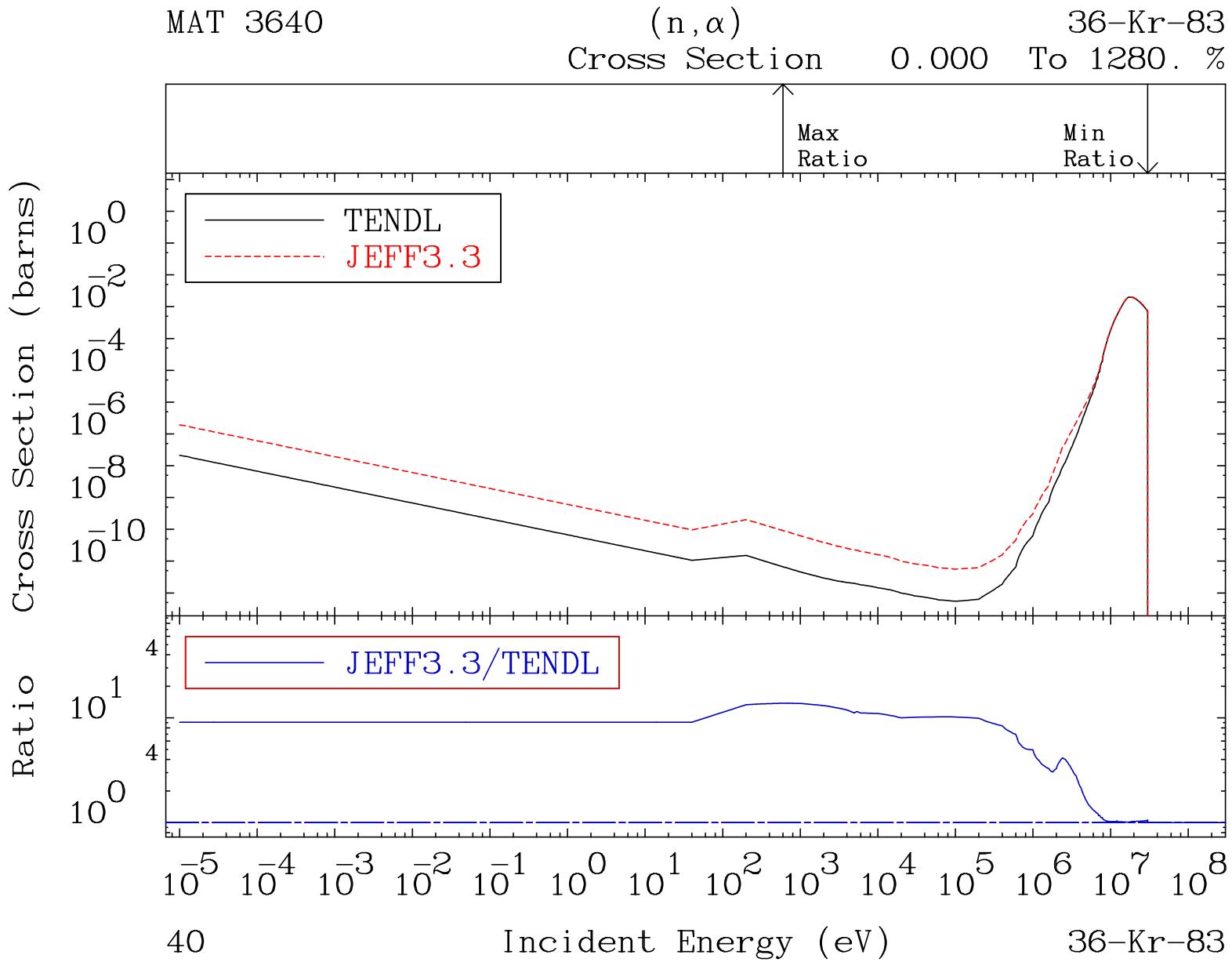

MAT 3640
(n,γ)
Cross Section
36-Kr-83
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
36-Kr-83

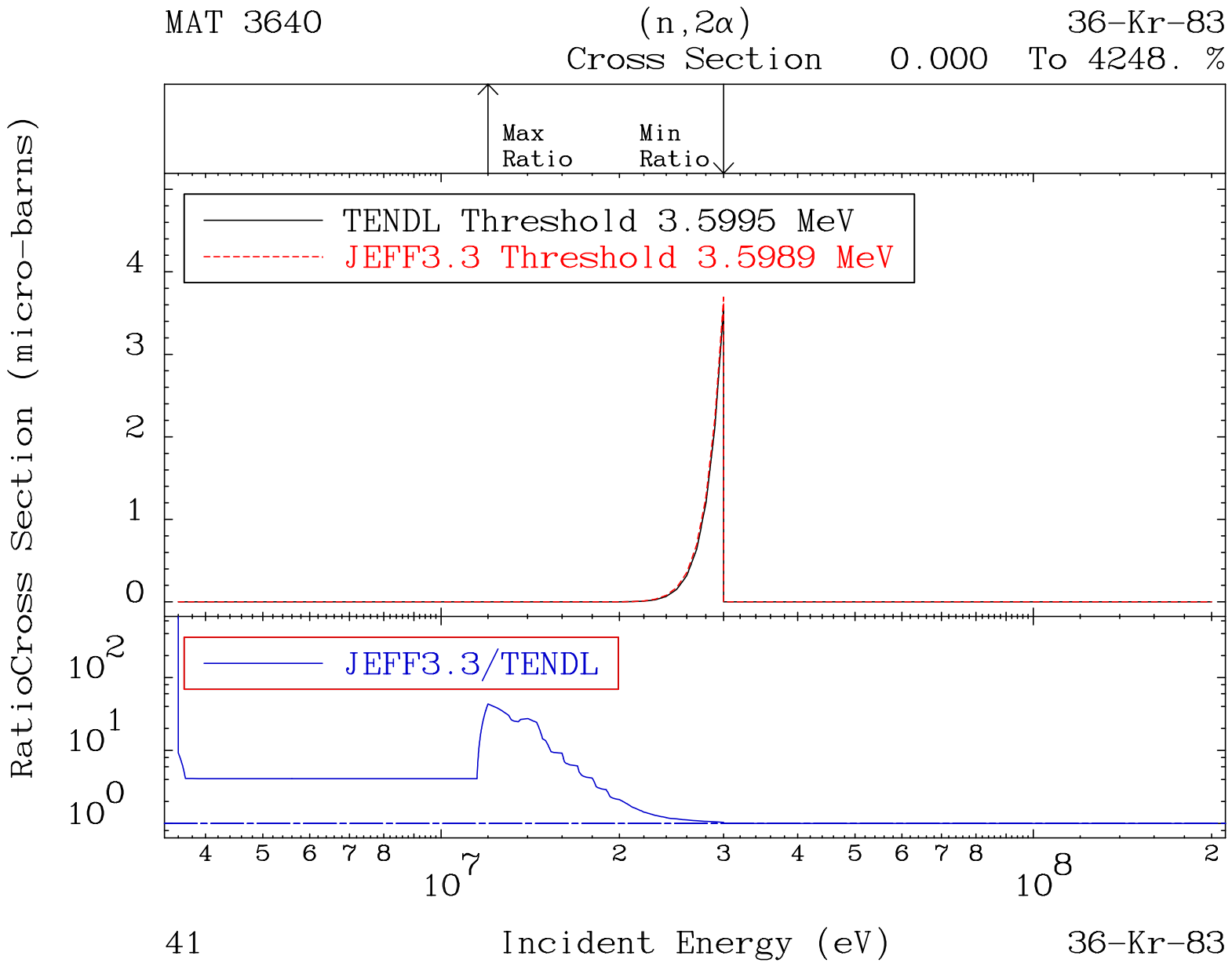

MAT 3640
(n,p)
Cross Section
36-Kr-83
-20.14 To 57.78 %
Max Ratio
Min Ratio
TENDL Threshold 196.94 keV
JEFF3.3 Threshold 196.64 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
2.0
1.6
1.2
0.8
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
36
Incident Energy (eV)
36-Kr-83

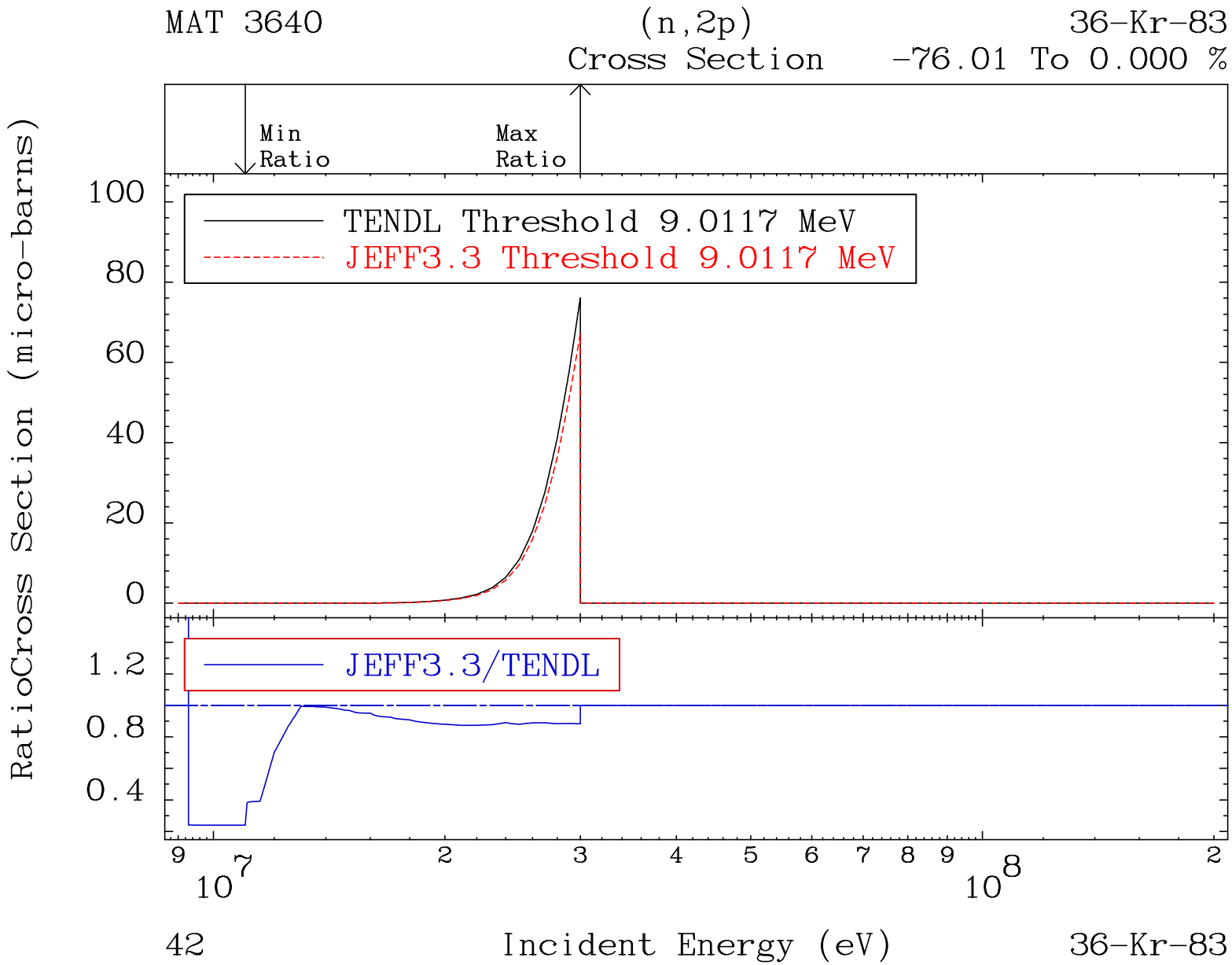

MAT 3640
(n,d)
Cross Section
36-Kr-83
-100.0 To 5.446 %
Max
Ratio
TENDL Threshold 7.6483 MeV
JEFF3.3 Threshold 7.6491 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
25
20
15
10
5
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
37
Incident Energy (eV)
36-Kr-83

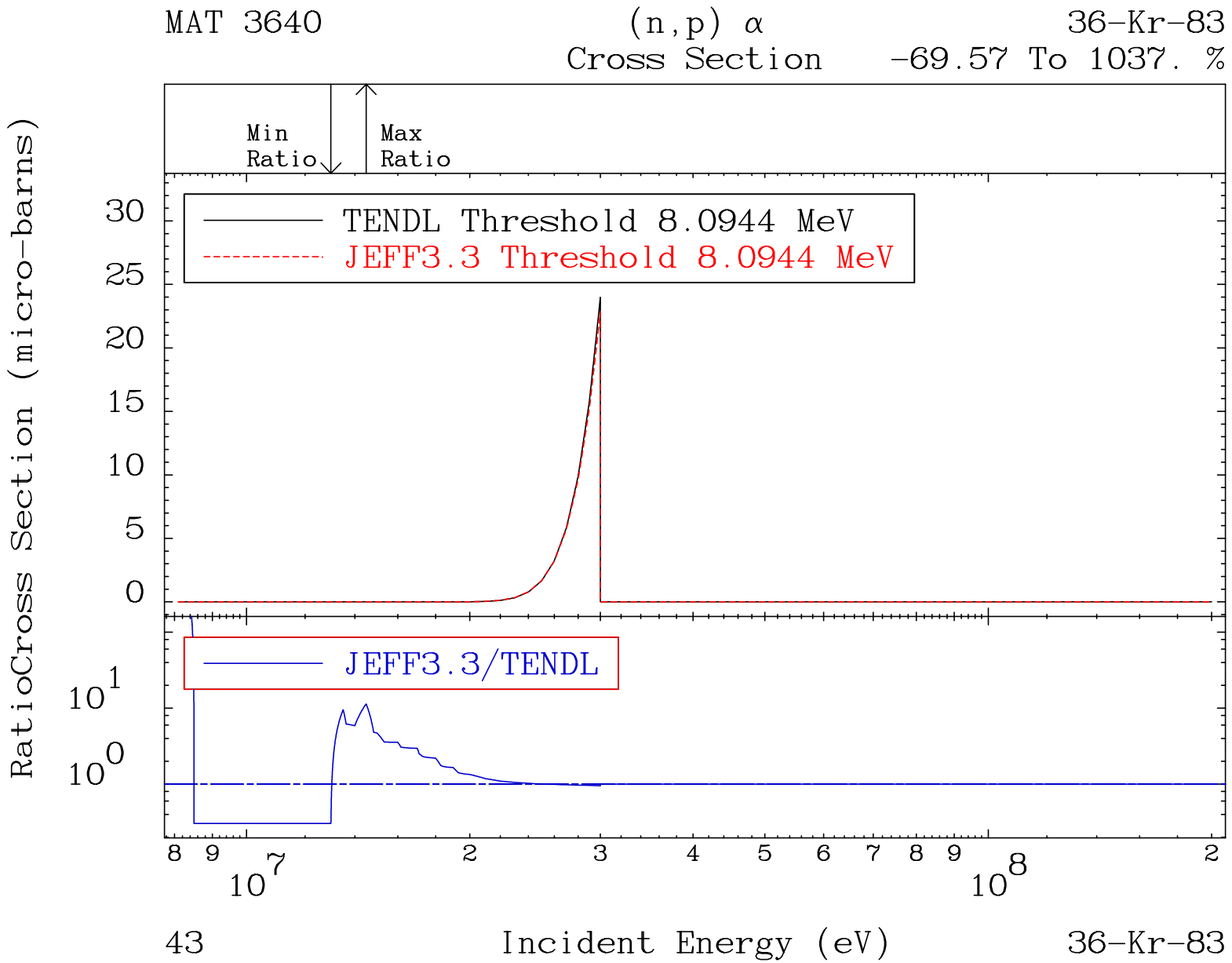

MAT 3640
(n,t)
Cross Section
36-Kr-83
-100.0 To 6.676 %
Max
Ratio
TENDL Threshold 9.0002 MeV
JEFF3.3 Threshold 9.0002 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
1.2
0.6
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
36-Kr-83

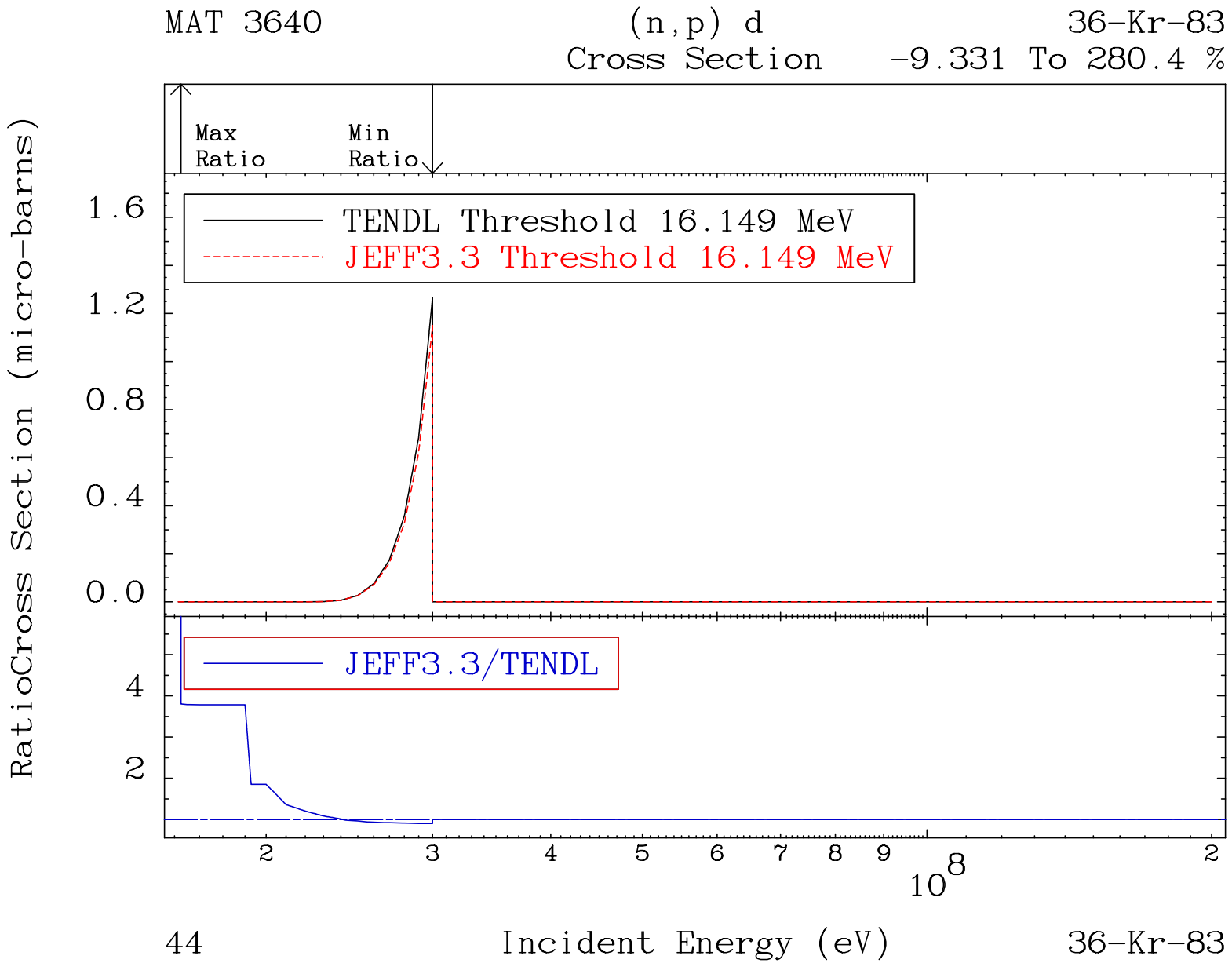

MAT 3640
(n,He-3)
36-Kr-83
Cross Section 0.000 To 10.78 %
Max Ratio
Min Ratio
TENDL Threshold 10.589 MeV
JEFF3.3 Threshold 10.589 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
39
Incident Energy (eV)
36-Kr-83

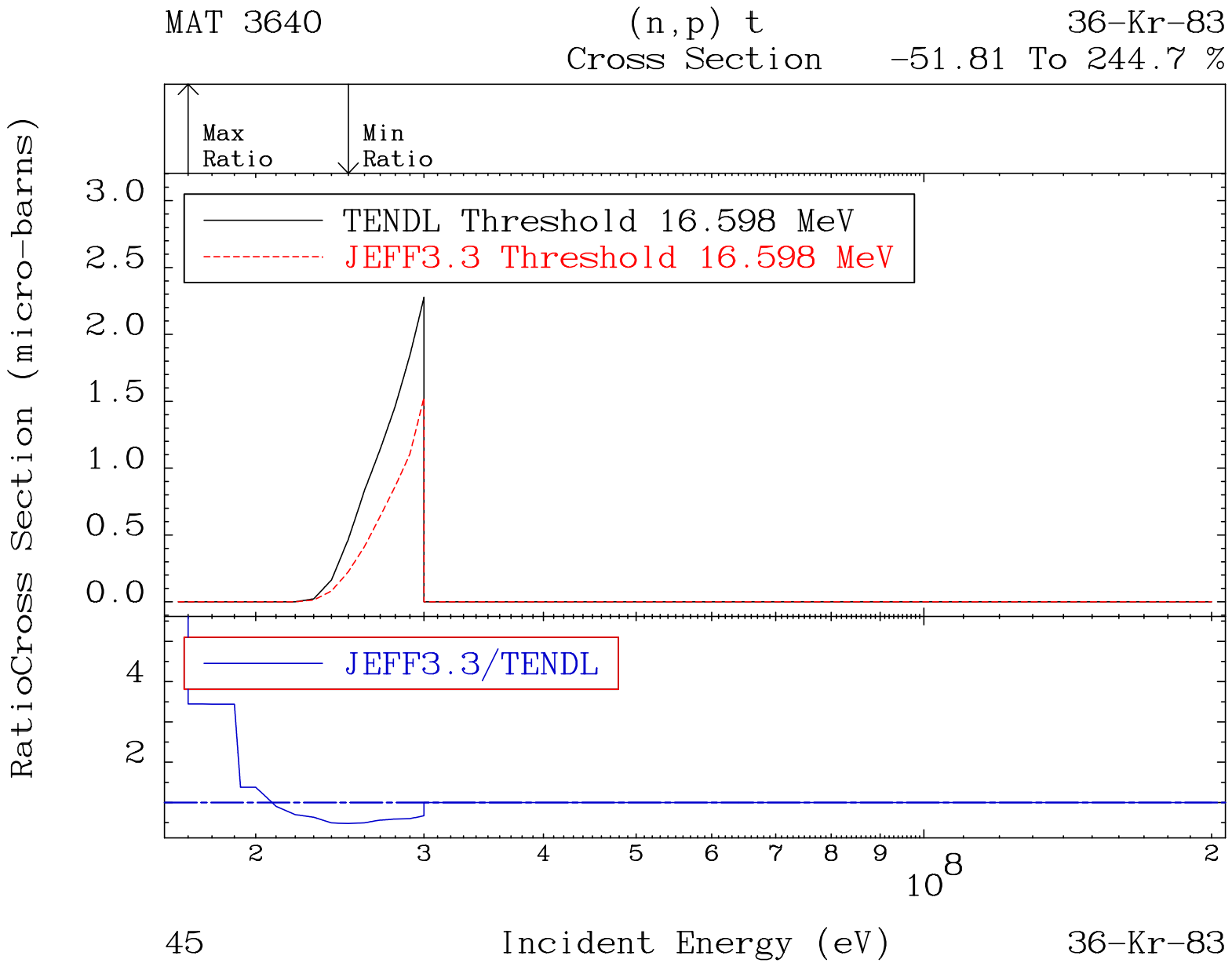

MAT 3640
(n,α)
36-Kr-83
Cross Section 0.000 To 1280. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
36-Kr-83

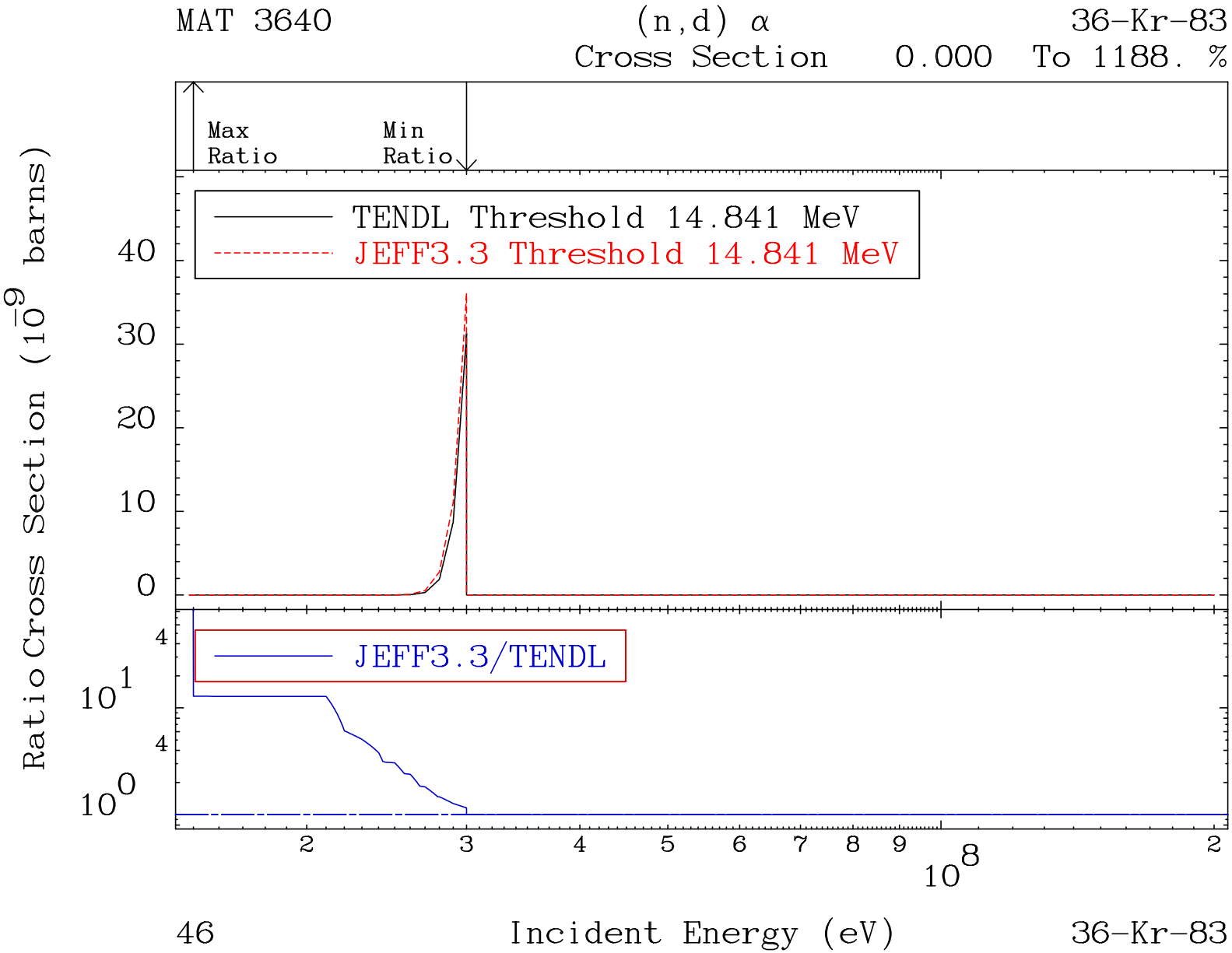

MAT 3640
(n,2α)
36-Kr-83
Cross Section 0.000 To 4248. %
Max Ratio
Min Ratio
TENDL Threshold 3.5995 MeV
JEFF3.3 Threshold 3.5989 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
41
36-Kr-83

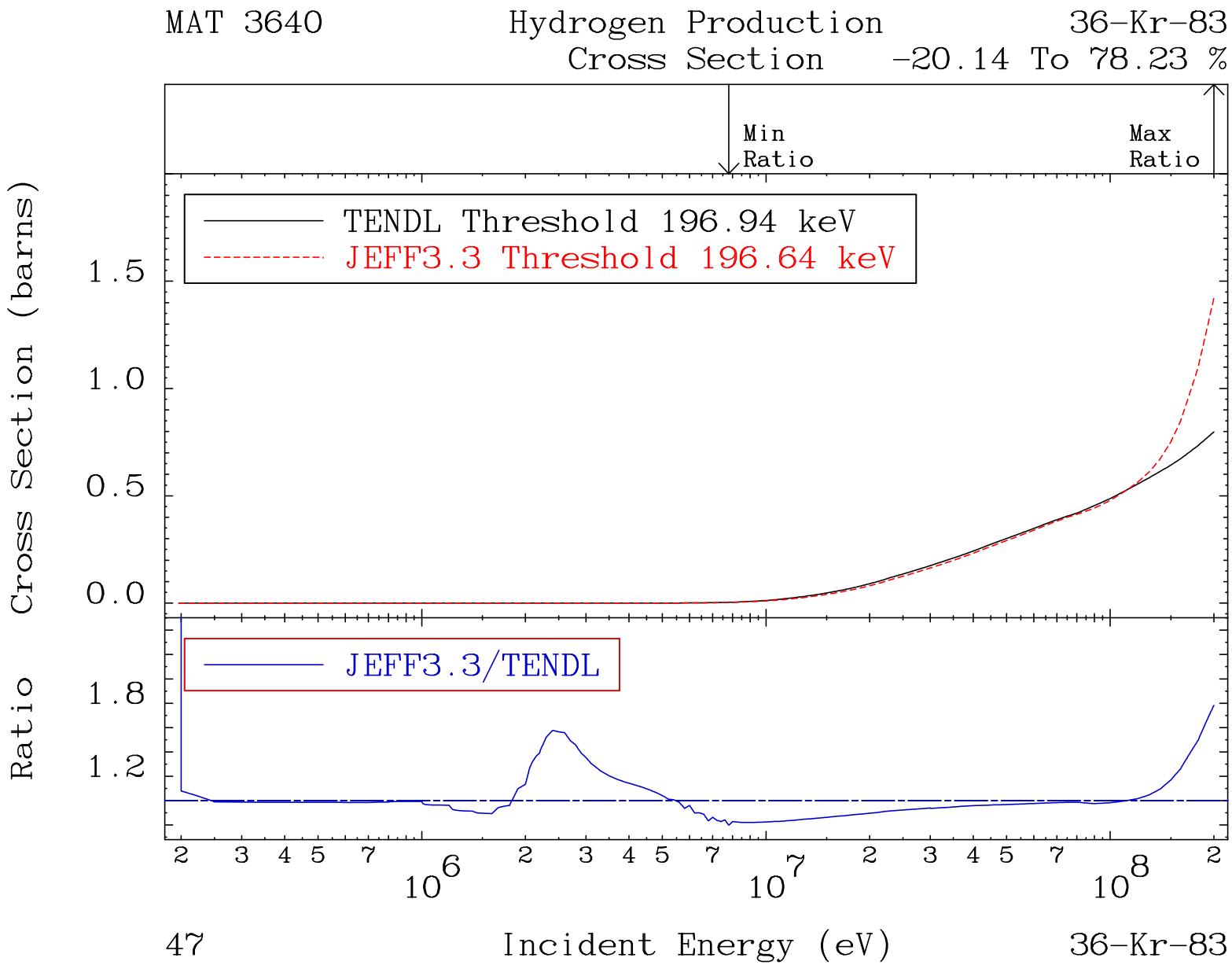

MAT 3640
(n,2p)
Cross Section
36-Kr-83
-76.01 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 9.0117 MeV
JEFF3.3 Threshold 9.0117 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
100
80
60
40
20
0
1.2
0.8
0.4
9
10^7
2
3
4
5
6
7
8
9
10^8
2
42
Incident Energy (eV)
36-Kr-83

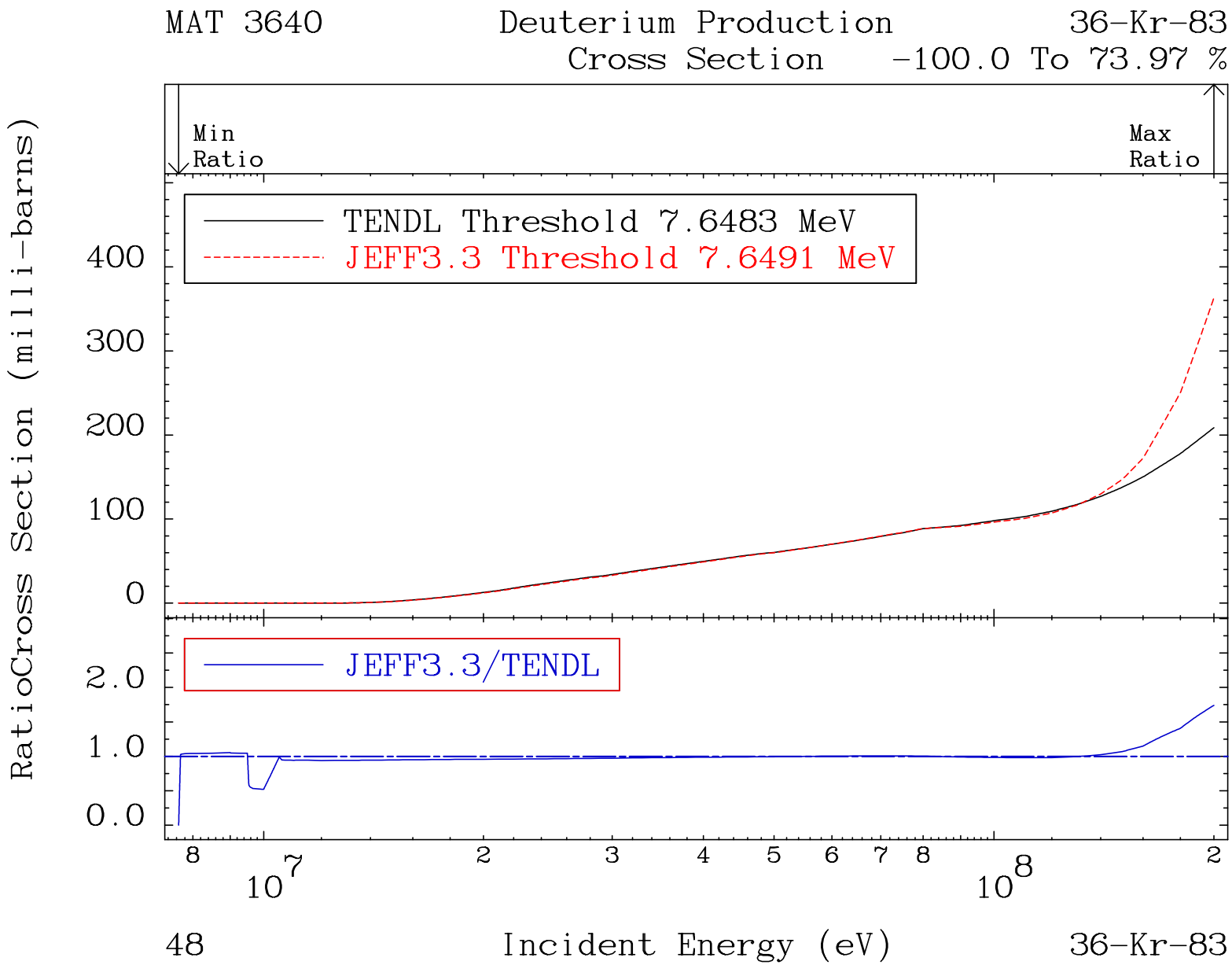

MAT 3640
(n,p) α
36-Kr-83
Cross Section
-69.57 To 1037. %
Min Ratio
Max Ratio
TENDL Threshold 8.0944 MeV
JEFF3.3 Threshold 8.0944 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
30
25
20
15
10
5
0
10^1
10^0
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
43
Incident Energy (eV)
36-Kr-83

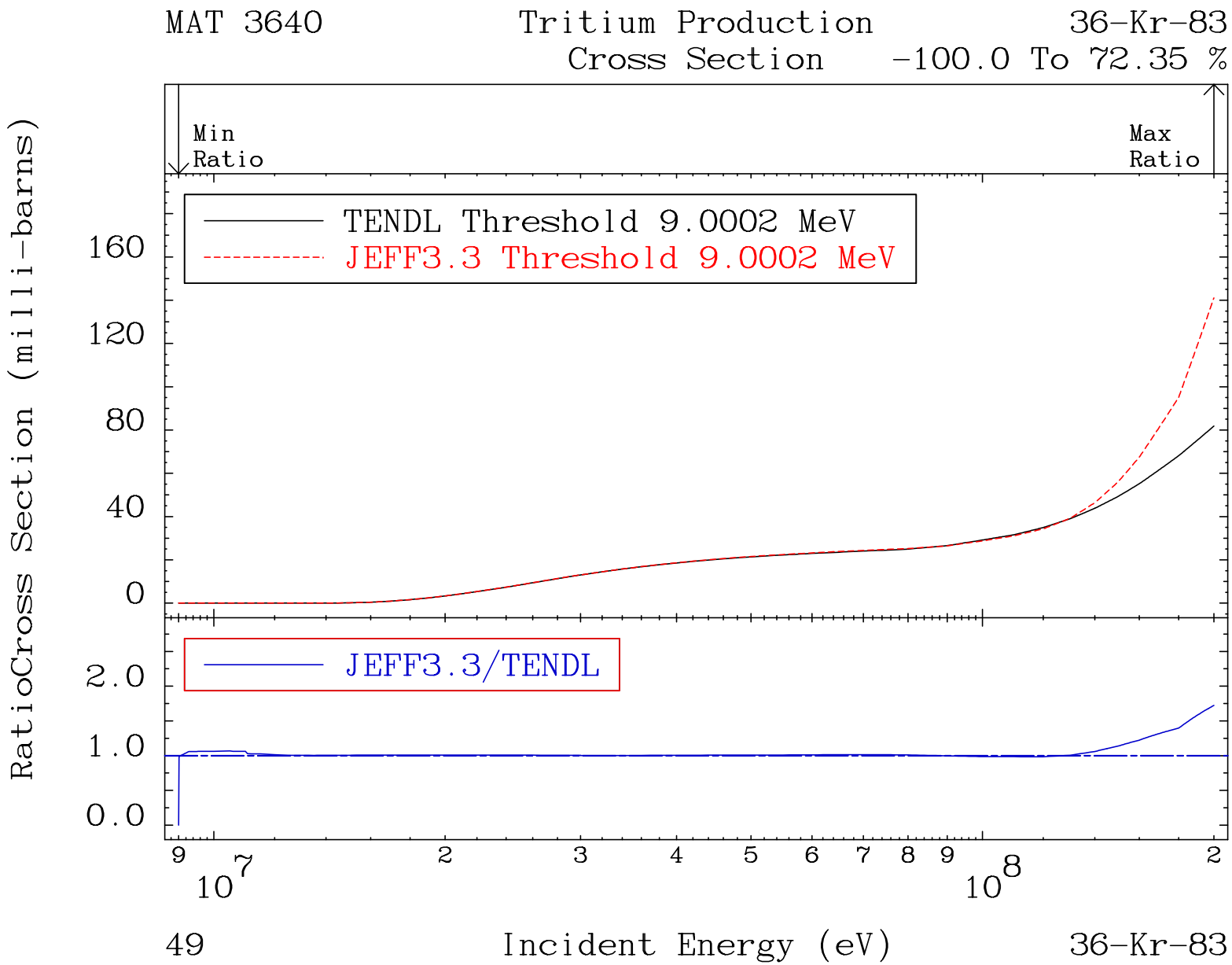

MAT 3640
(n,p) d
Cross Section
36-Kr-83
-9.331 To 280.4 %
Max Ratio
Min Ratio
TENDL Threshold 16.149 MeV
JEFF3.3 Threshold 16.149 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.6
1.2
0.8
0.4
0.0
4
2
2
3
4
5
6
7
8
9
10^8
2
44
Incident Energy (eV)
36-Kr-83

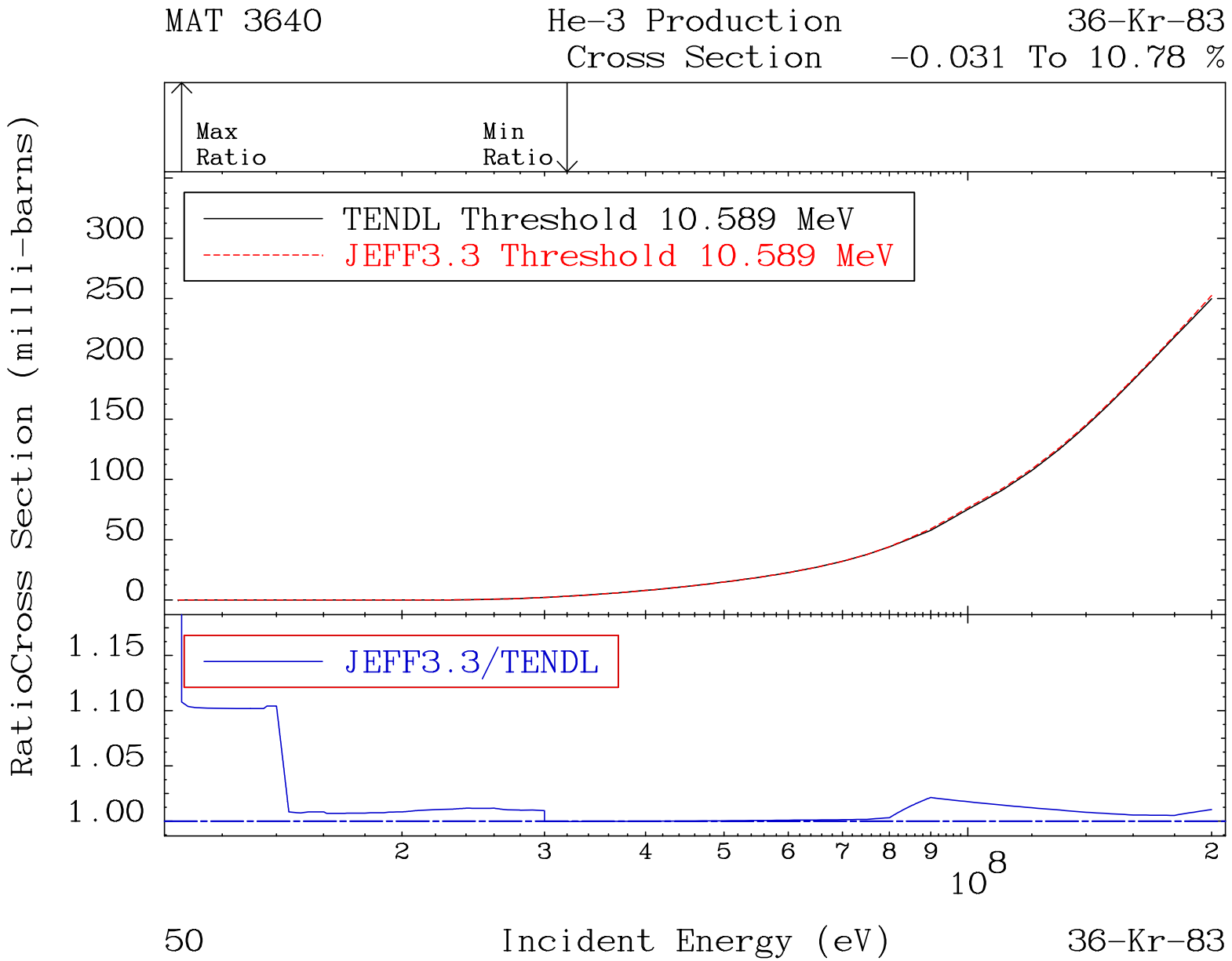

MAT 3640
(n,p) t
Cross Section
36-Kr-83
-51.81 To 244.7 %
Max Ratio
Min Ratio
TENDL Threshold 16.598 MeV
JEFF3.3 Threshold 16.598 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
4
2
2
3
4
5
6
7
8
9
10^8
2
45
Incident Energy (eV)
36-Kr-83

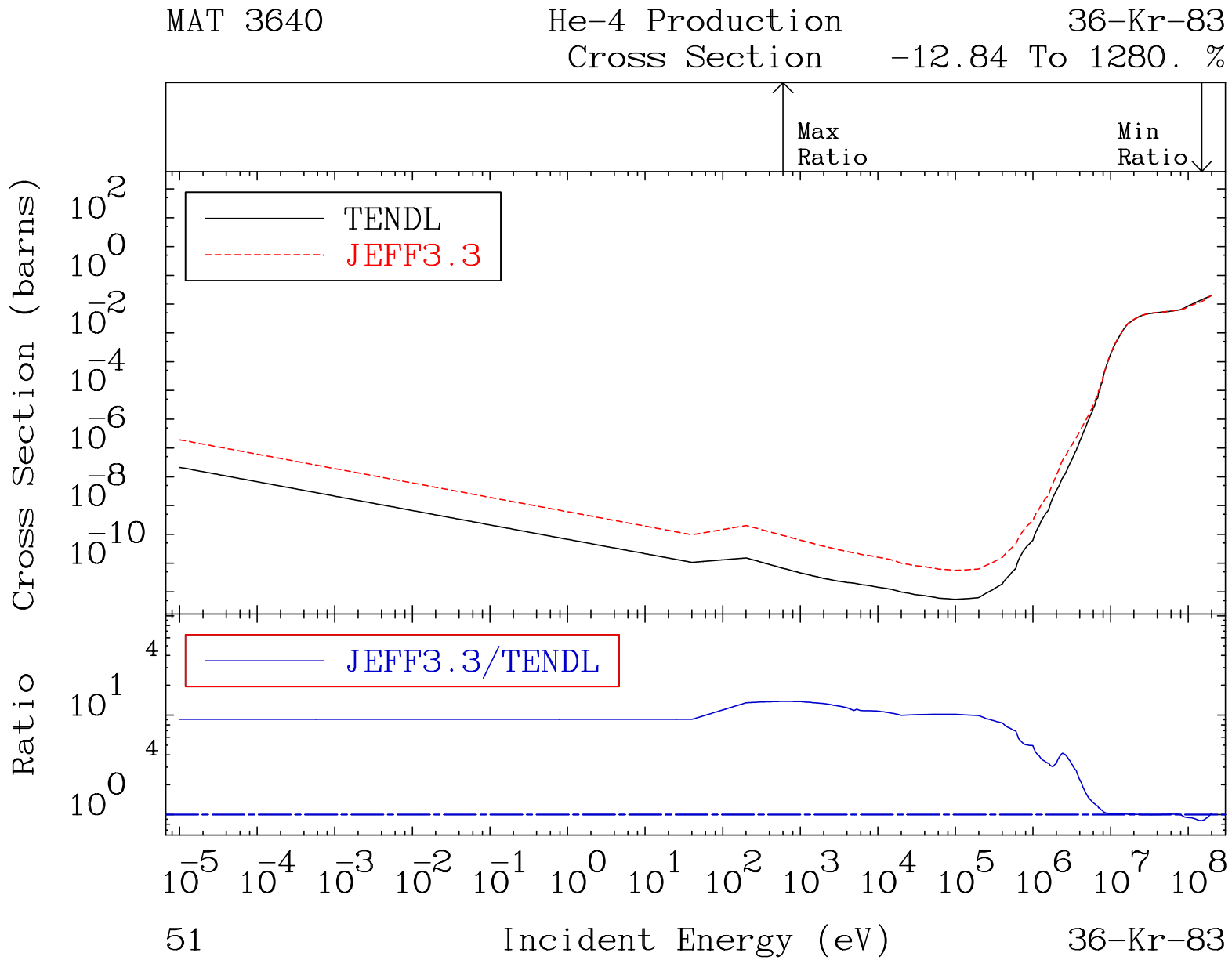

MAT 3640
(n,d) α
36-Kr-83
Cross Section 0.000 To 1188. %
Max Ratio
Min Ratio
TENDL Threshold 14.841 MeV
JEFF3.3 Threshold 14.841 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
40
30
20
10
0
10^{1}
4
4
10^{0}
2
3
4
5
6
7
8
9
10^{8}
2
46
Incident Energy (eV)
36-Kr-83

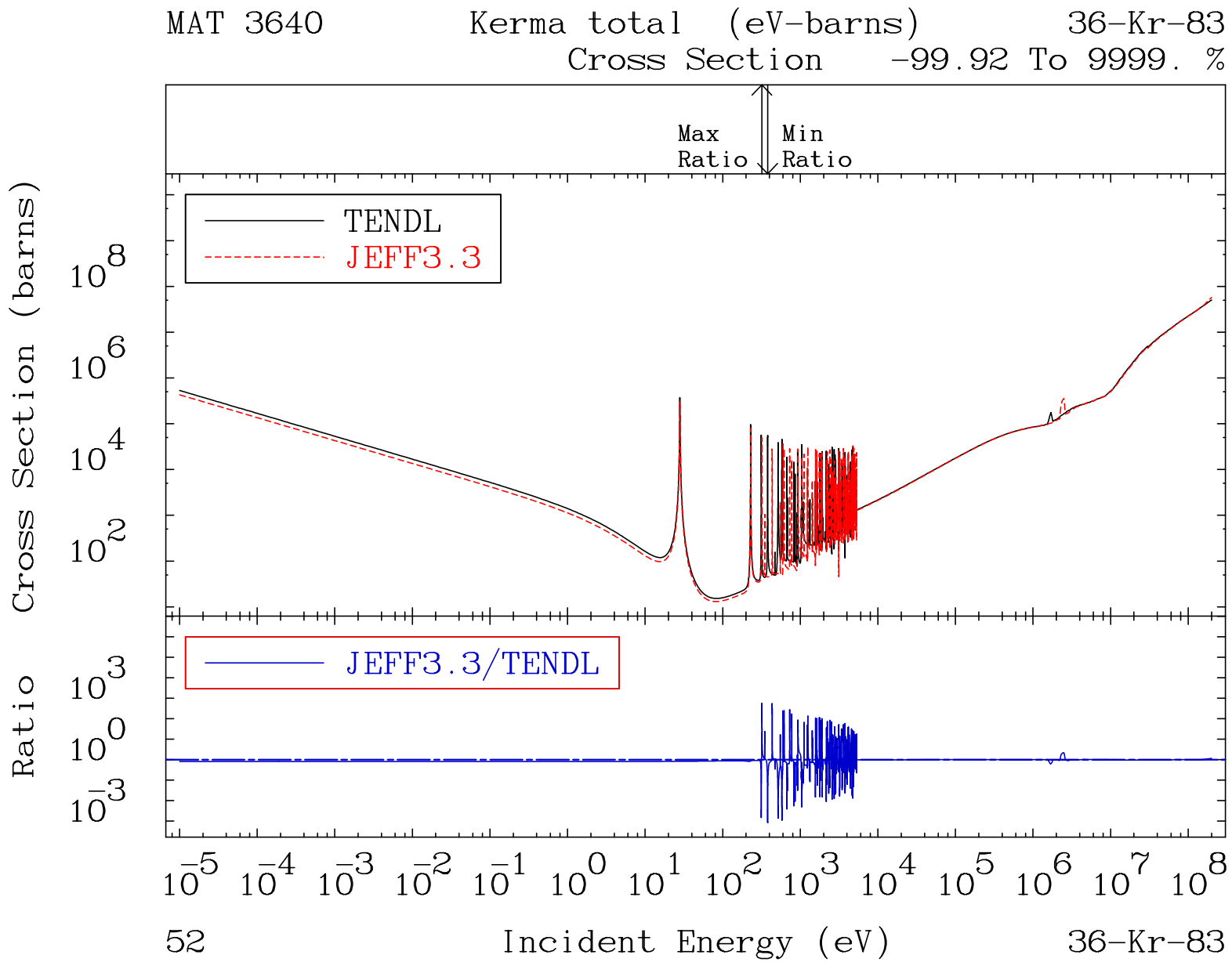

MAT 3640
Hydrogen Production
Cross Section
36-Kr-83
-20.14 To 78.23 %
Min Ratio
Max Ratio
TENDL Threshold 196.94 keV
JEFF3.3 Threshold 196.64 keV
Cross Section (barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.8
1.2
2 3 4 5 7 10^6 2 3 4 5 7 10^7 2 3 4 5 7 10^8 2
47
Incident Energy (eV)
36-Kr-83

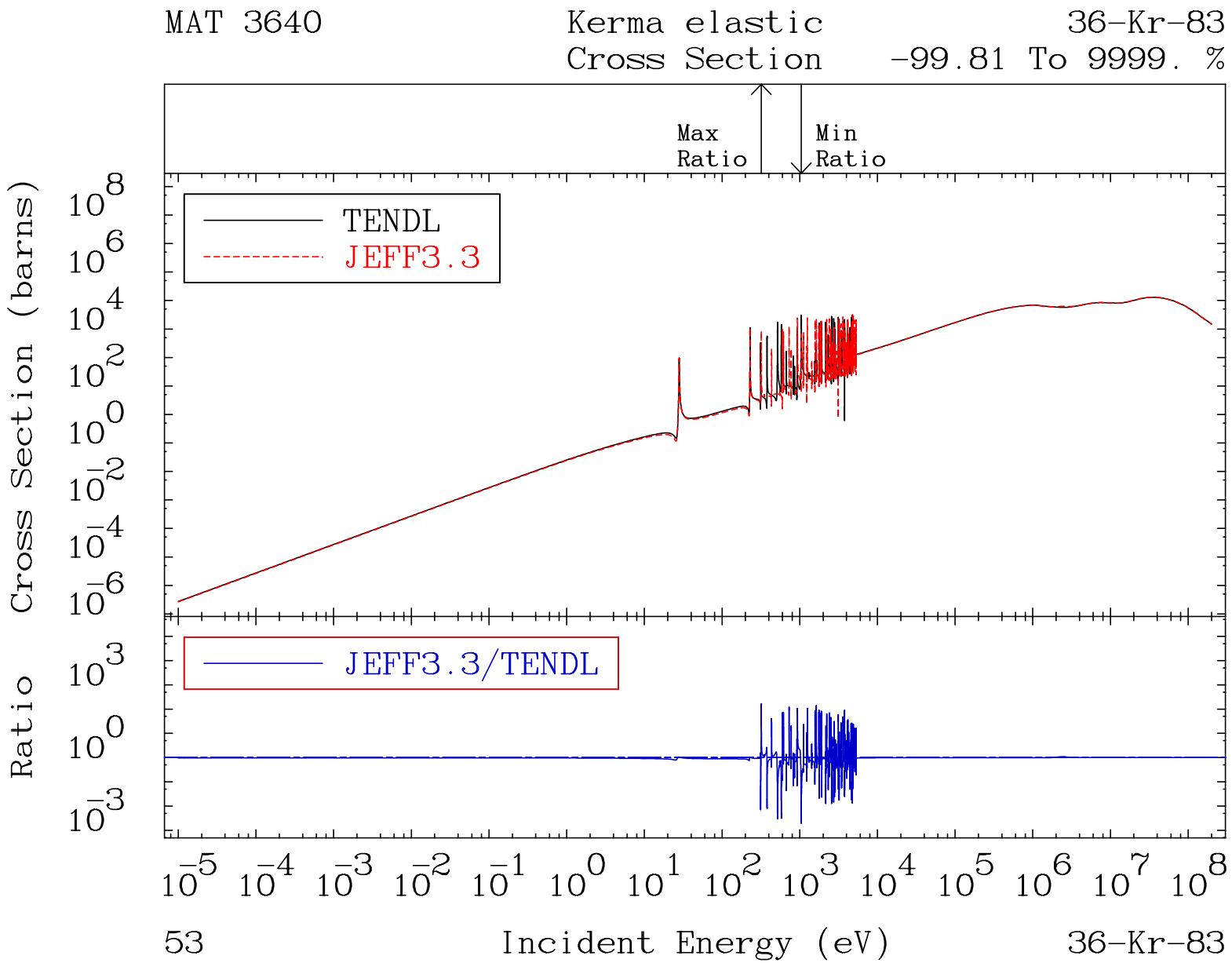

MAT 3640
Deuterium Production
36-Kr-83
Cross Section
-100.0 To 73.97 %
Min
Ratio
Max
Ratio
TENDL Threshold 7.6483 MeV
JEFF3.3 Threshold 7.6491 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
2.0
1.0
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
48
Incident Energy (eV)
36-Kr-83

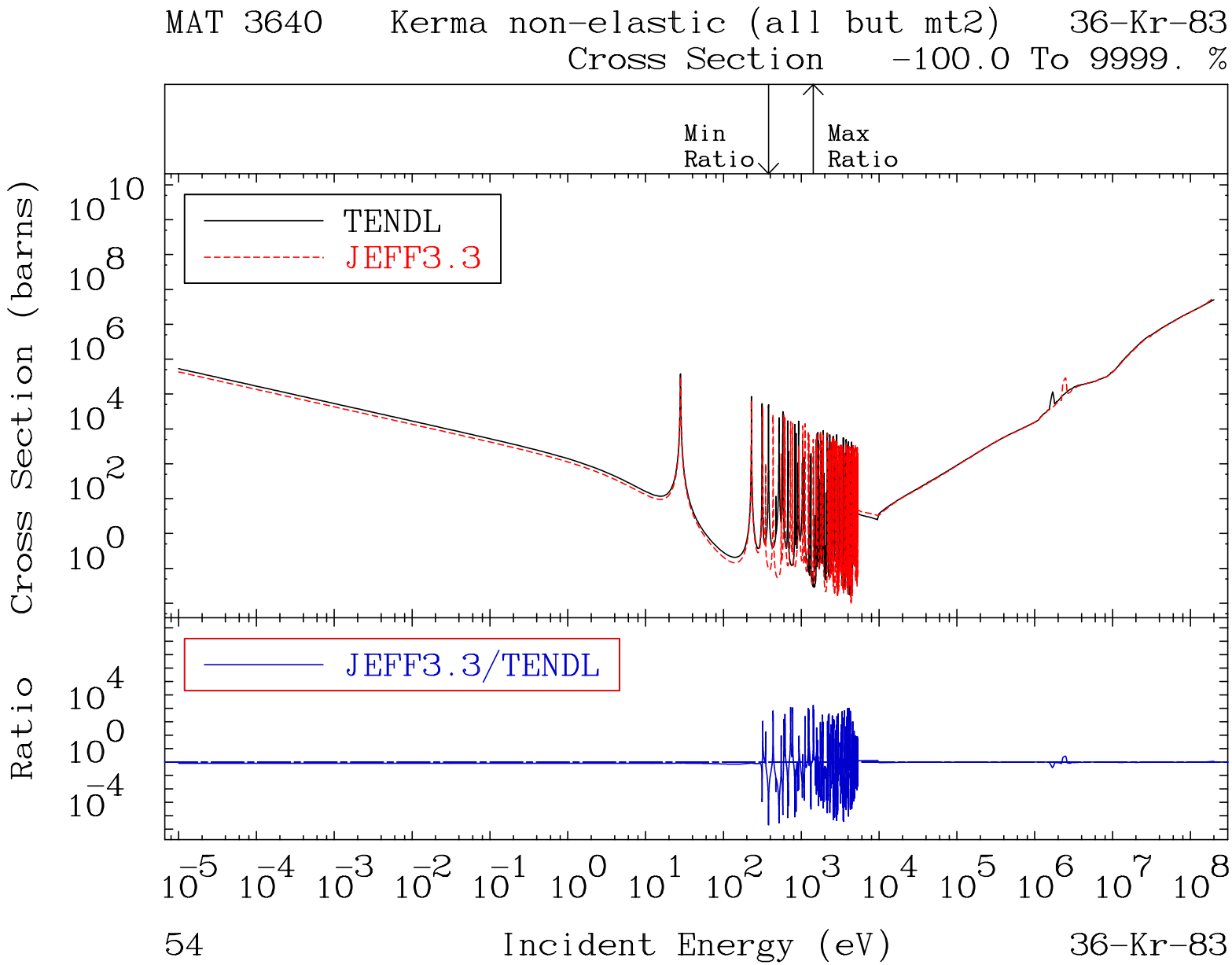

MAT 3640
Tritium Production
Cross Section
36-Kr-83
-100.0 To 72.35 %
Min Ratio
Max Ratio
TENDL Threshold 9.0002 MeV
JEFF3.3 Threshold 9.0002 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
36-Kr-83

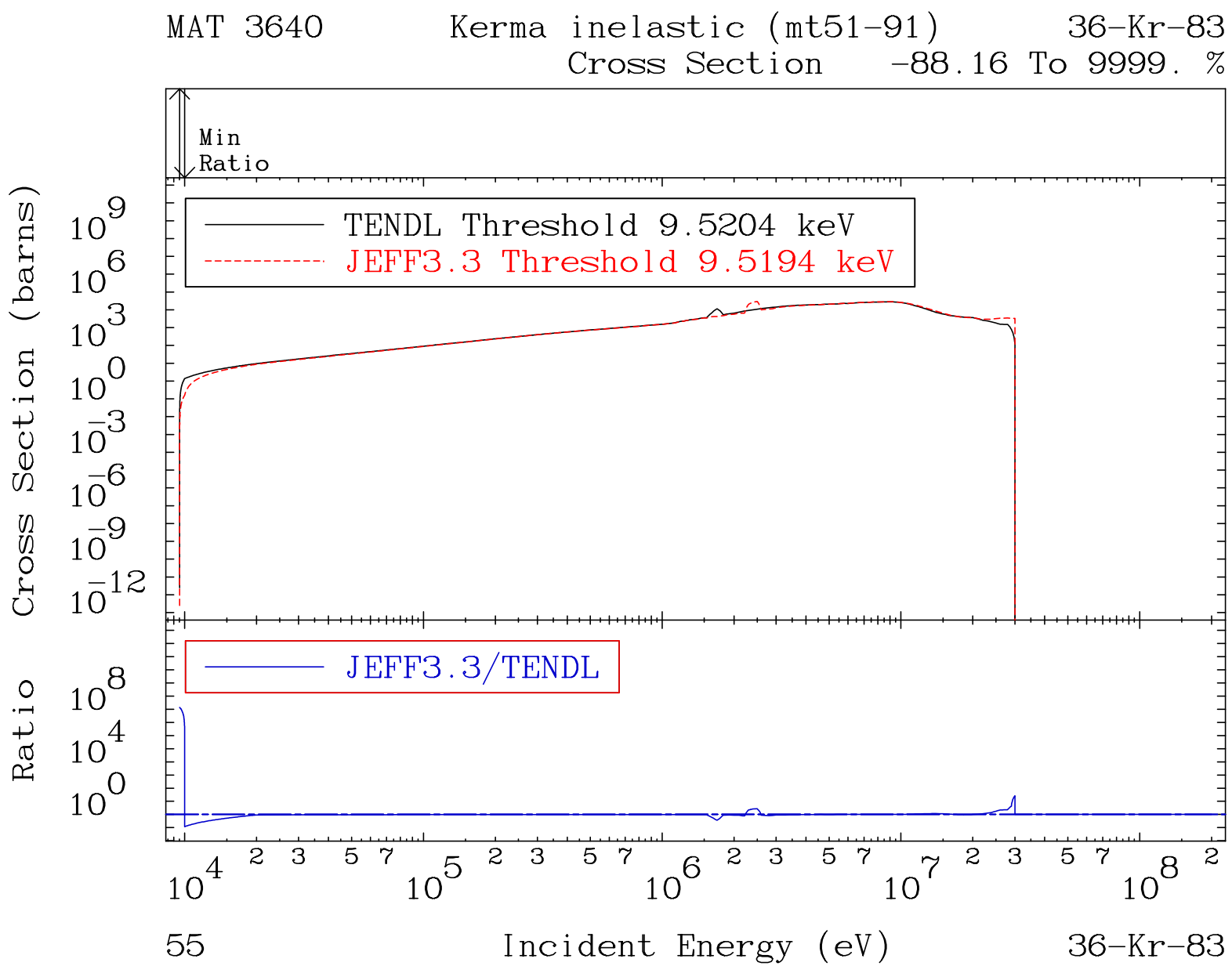

MAT 3640
He-3 Production
Cross Section
36-Kr-83
-0.031 To 10.78 %
Max Ratio
Min Ratio
TENDL Threshold 10.589 MeV
JEFF3.3 Threshold 10.589 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.15
1.10
1.05
1.00
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
36-Kr-83

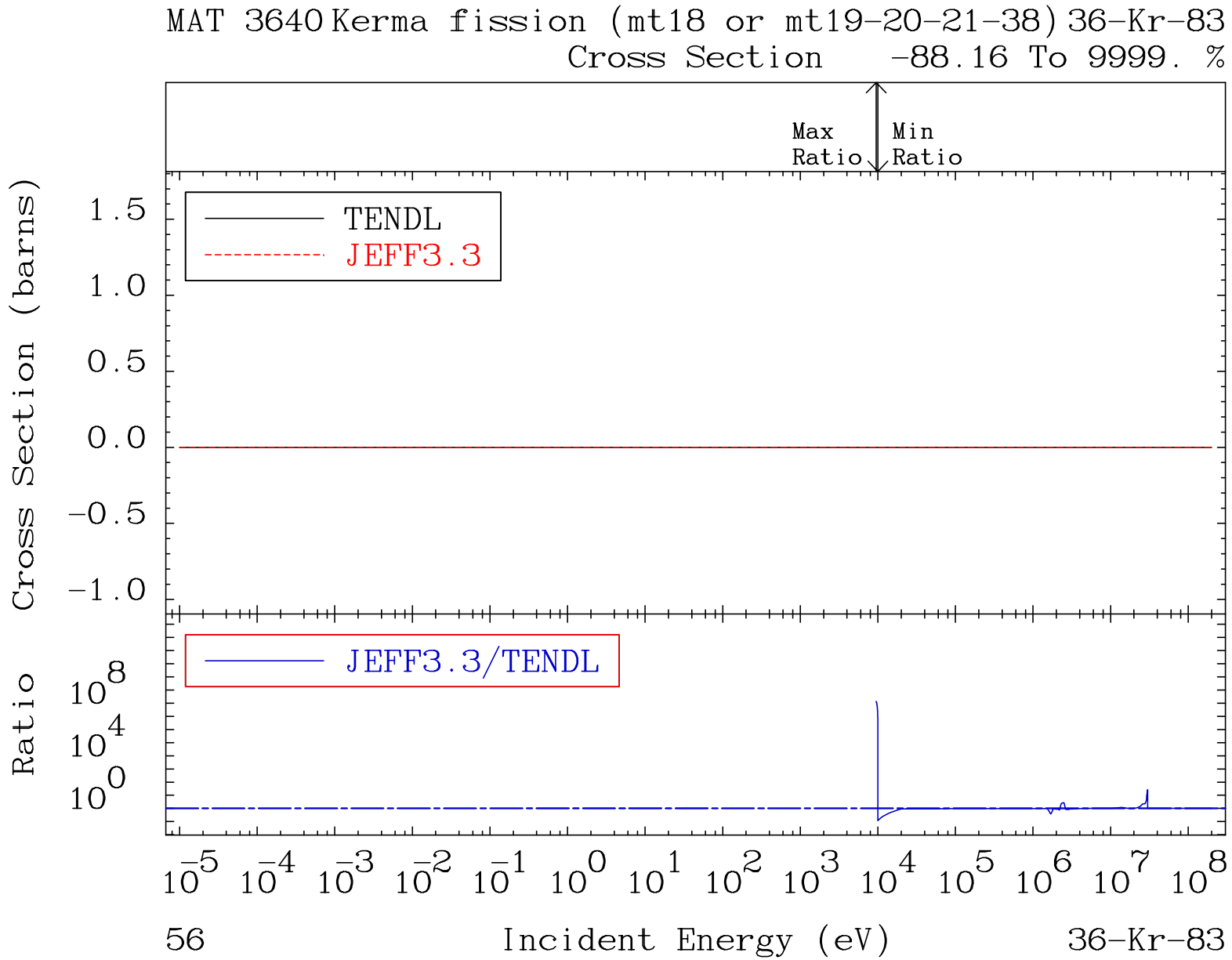

MAT 3640
He-4 Production
Cross Section
36-Kr-83
-12.84 To 1280. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
51
36-Kr-83

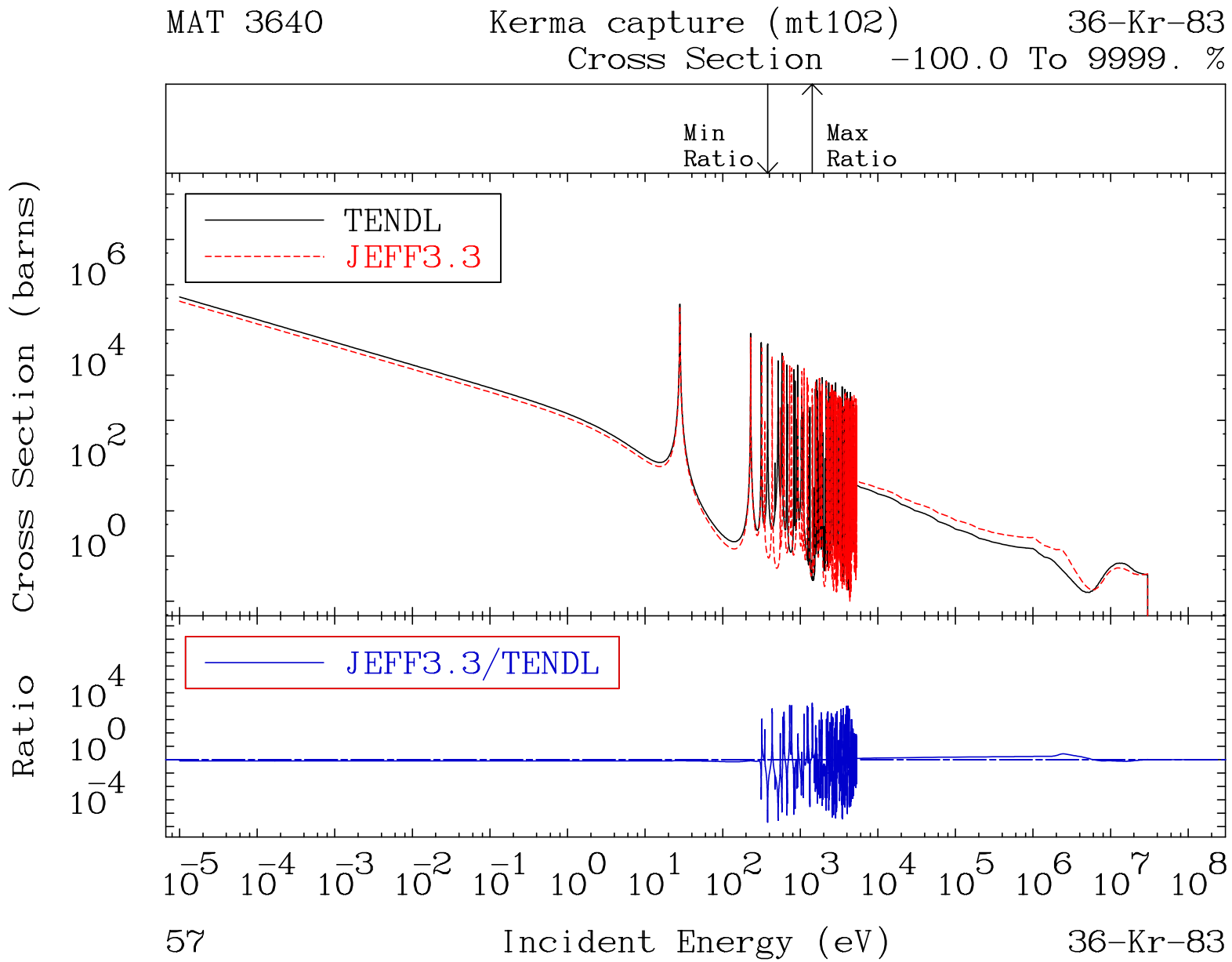

MAT 3640
Kerma total (eV-barns)
36-Kr-83
Cross Section -99.92 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
52
36-Kr-83

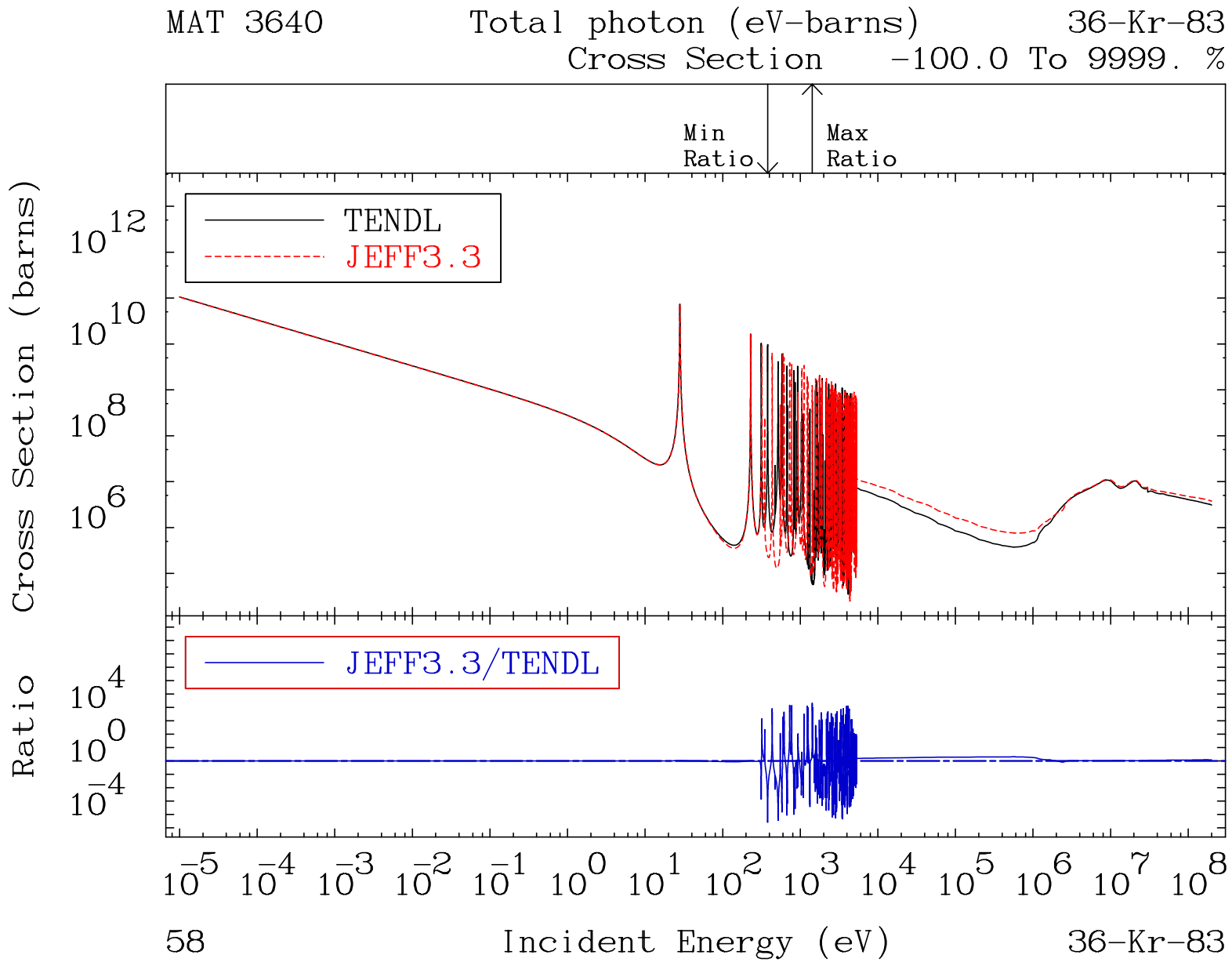

MAT 3640
Kerma elastic
Cross Section
36-Kr-83
-99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
53
36-Kr-83

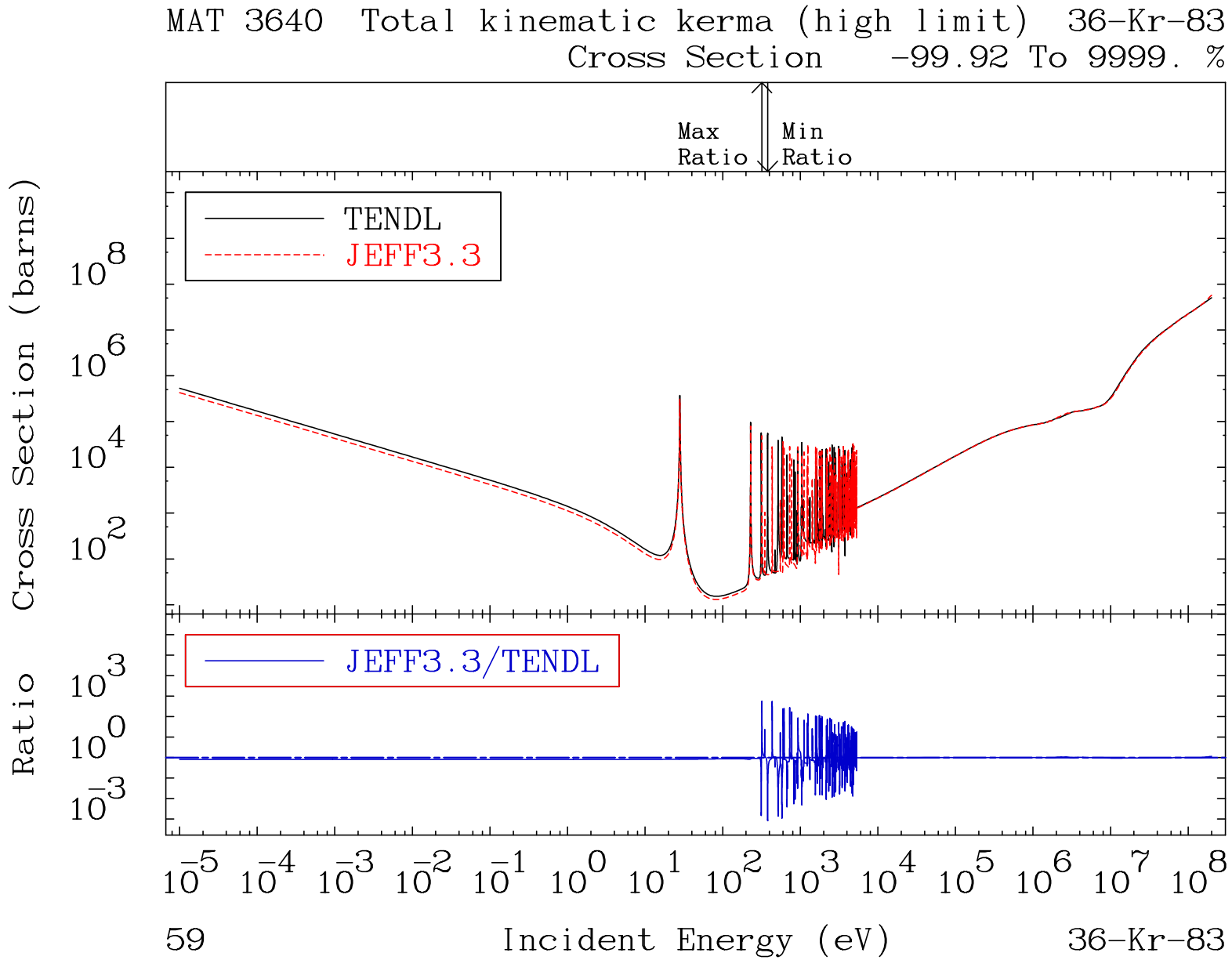

MAT 3640 Kerma non-elastic (all but mt2) 36-Kr-83
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
36-Kr-83

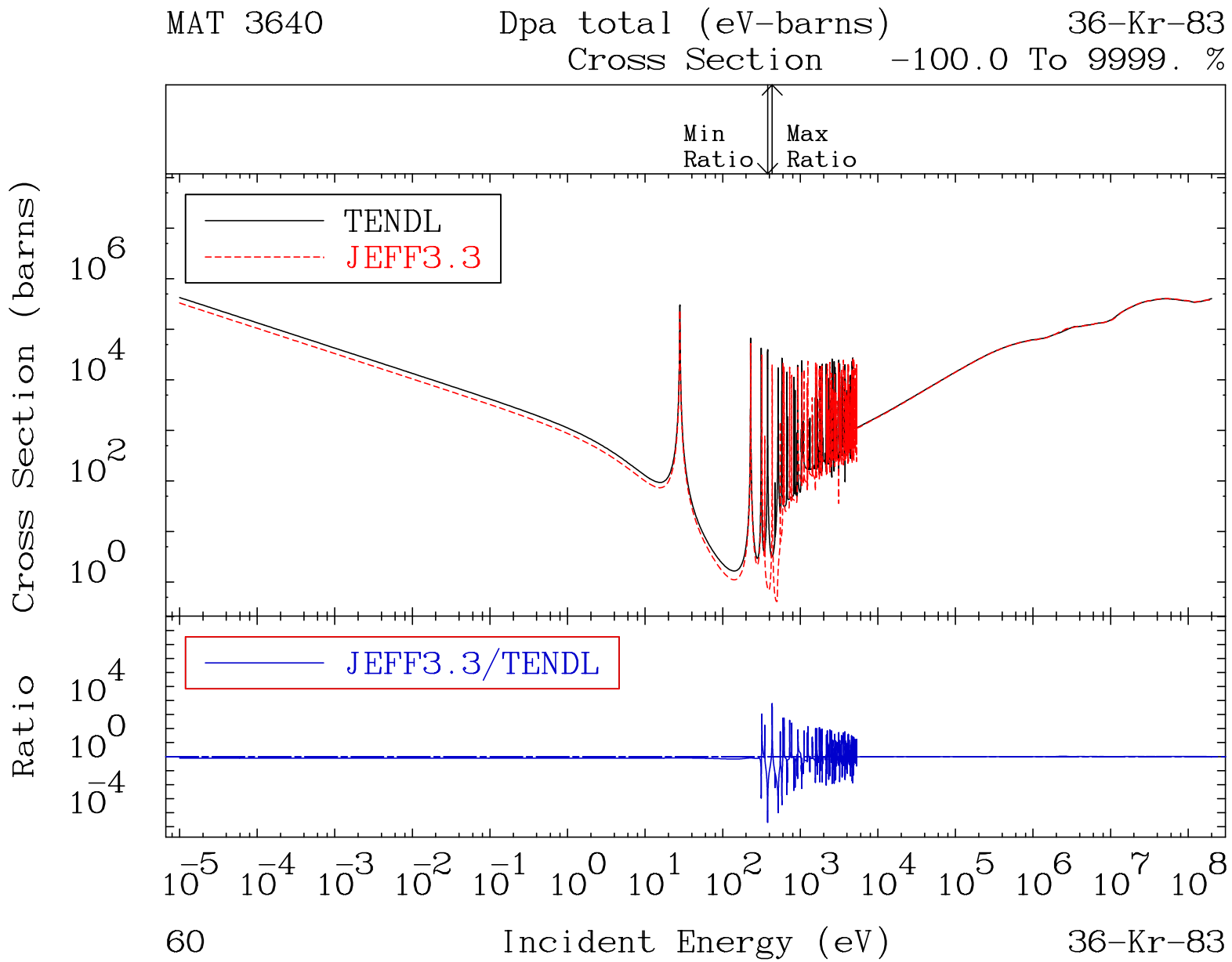

MAT 3640
Kerma inelastic (mt51-91)
36-Kr-83
Cross Section -88.16 To 9999. %
Min
Ratio
TENDL Threshold 9.5204 keV
JEFF3.3 Threshold 9.5194 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
36-Kr-83

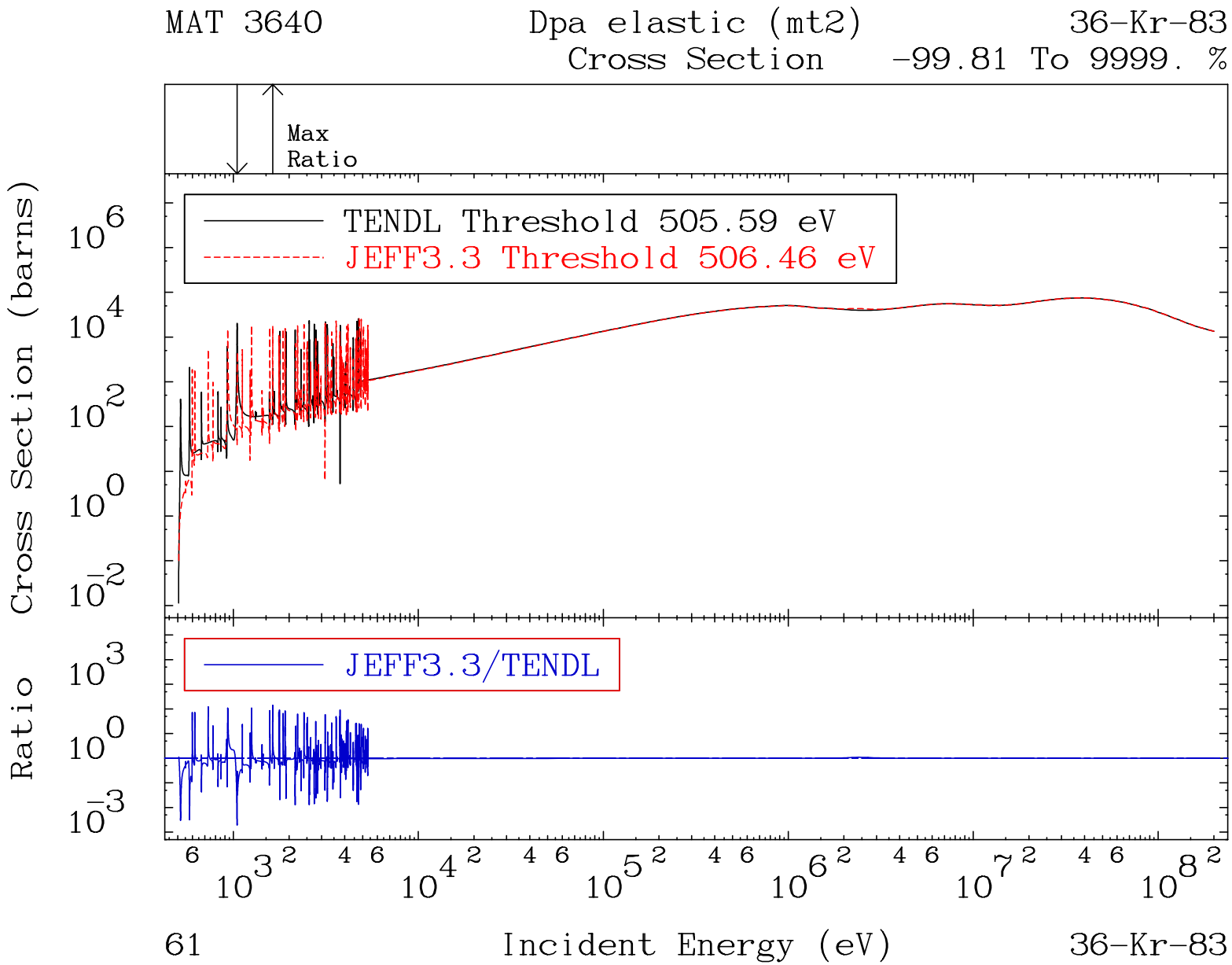

MAT 3640 Kerma fission (mt18 or mt19-20-21-38) 36-Kr-83
Cross Section -88.16 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{8}
10^{4}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
56
Incident Energy (eV)
36-Kr-83

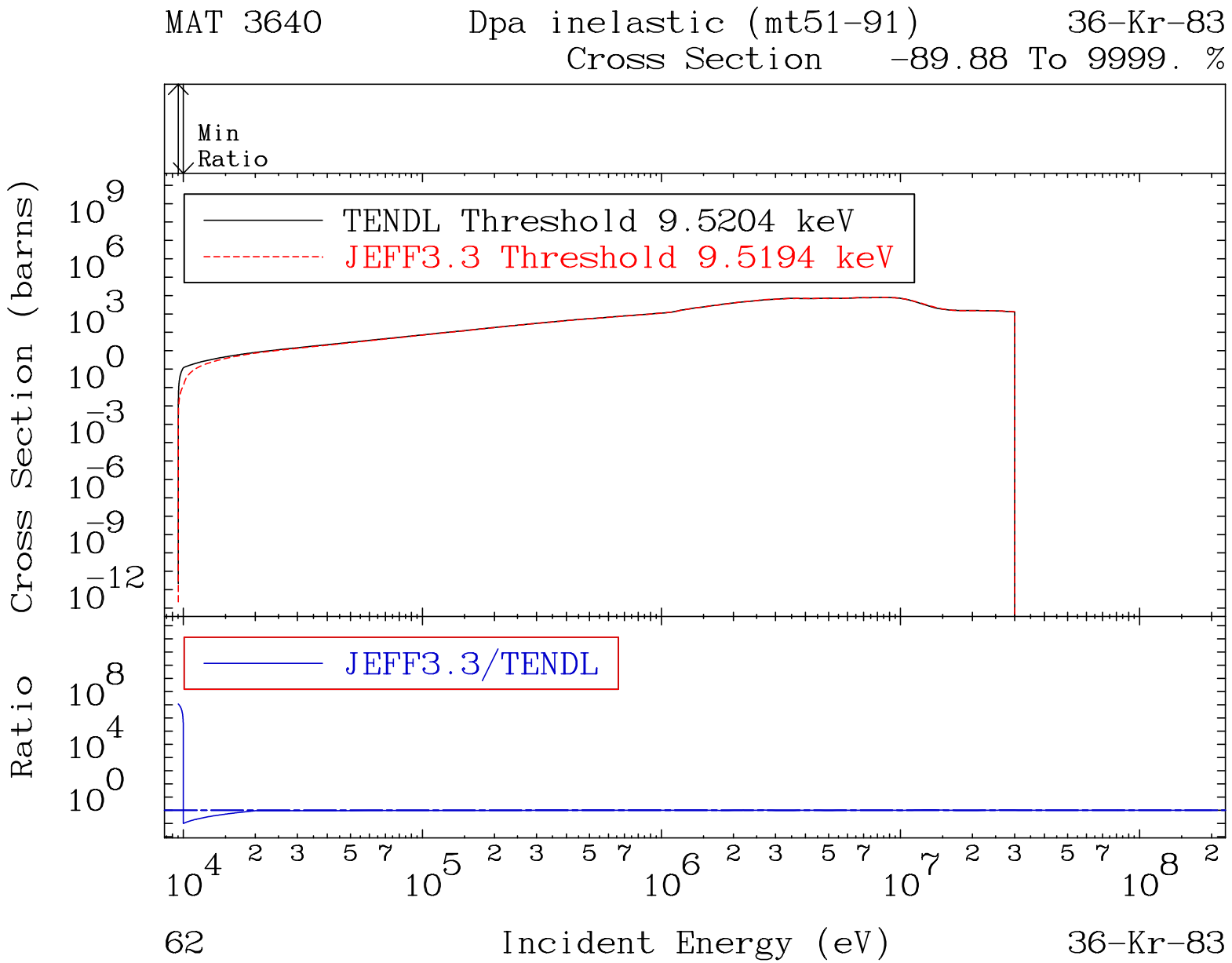

MAT 3640
Kerma capture (mt102)
36-Kr-83
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
57
36-Kr-83

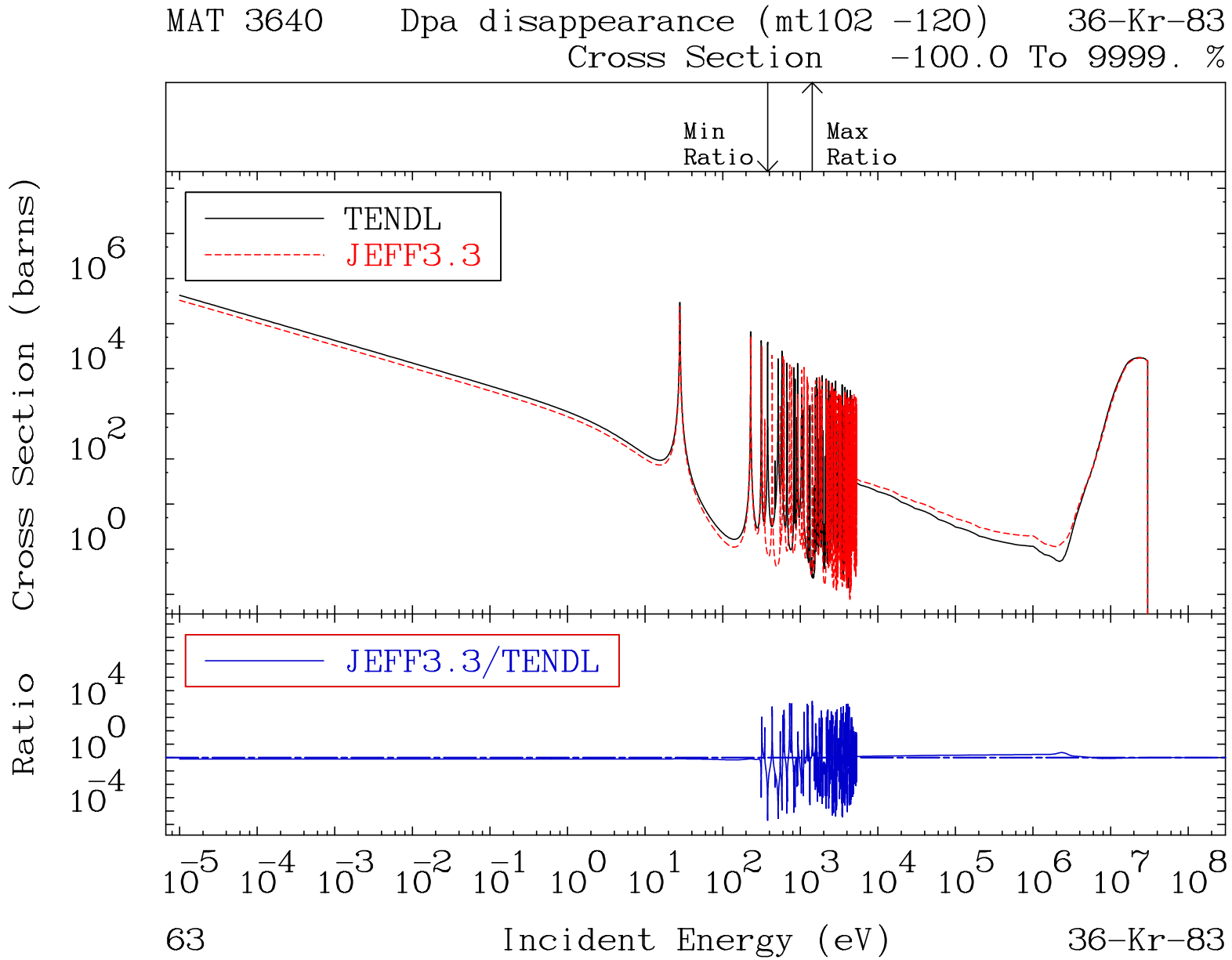

MAT 3640
Total photon (eV-barns)
36-Kr-83
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
36-Kr-83

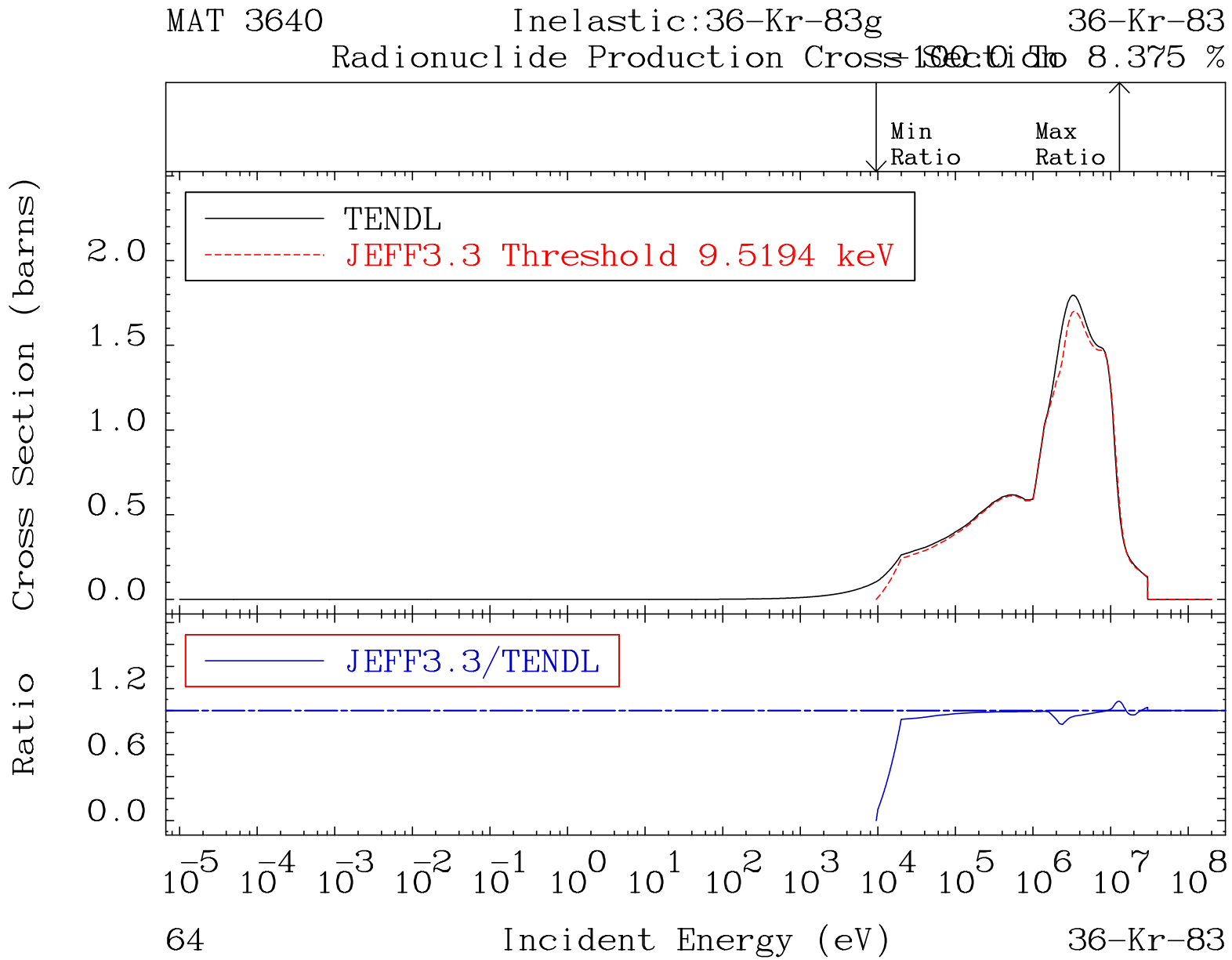

MAT 3640 Total kinematic kerma (high limit) 36-Kr-83
Cross Section -99.92 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
59
36-Kr-83

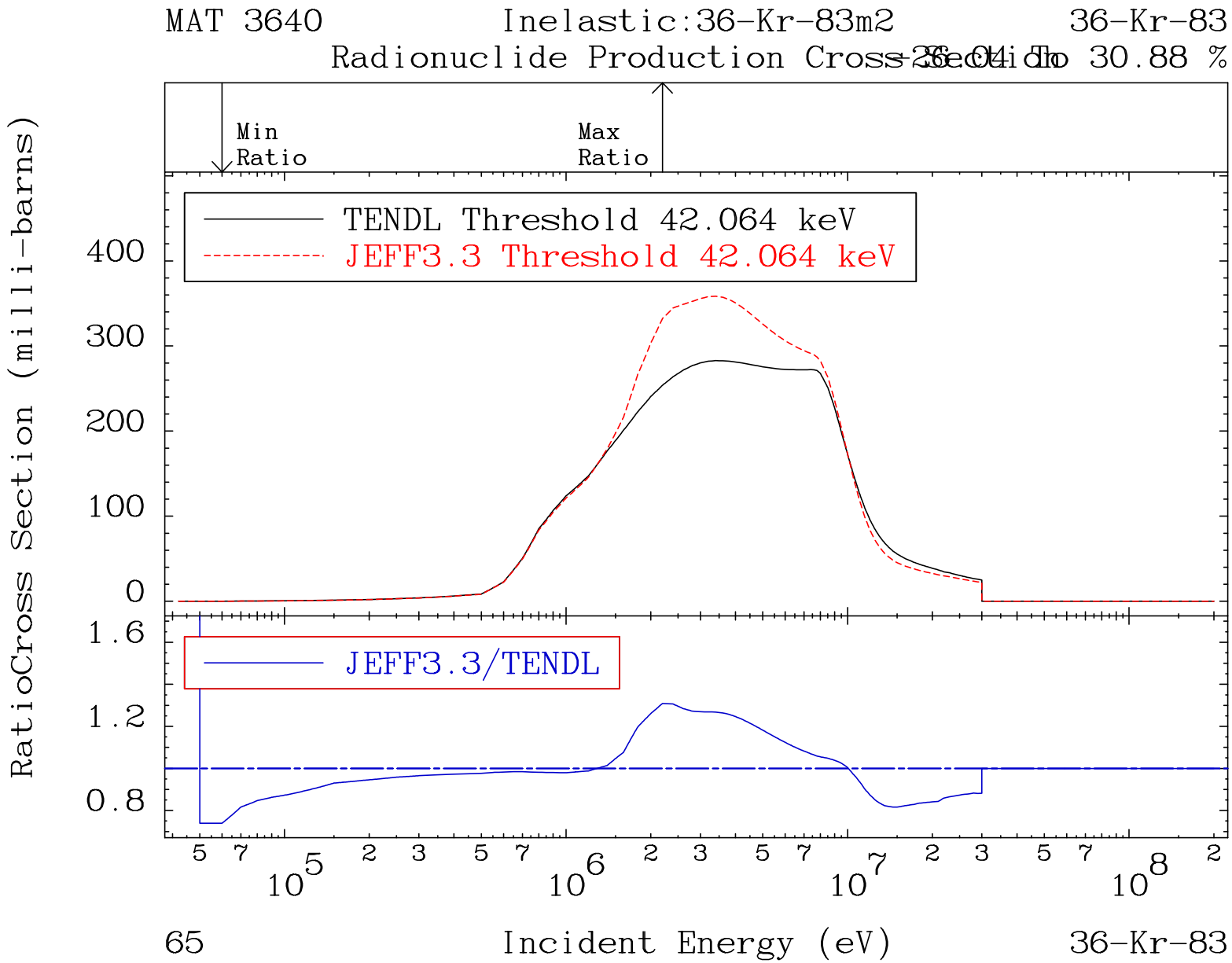

MAT 3640
Dpa total (eV-barns)
36-Kr-83
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
60
36-Kr-83

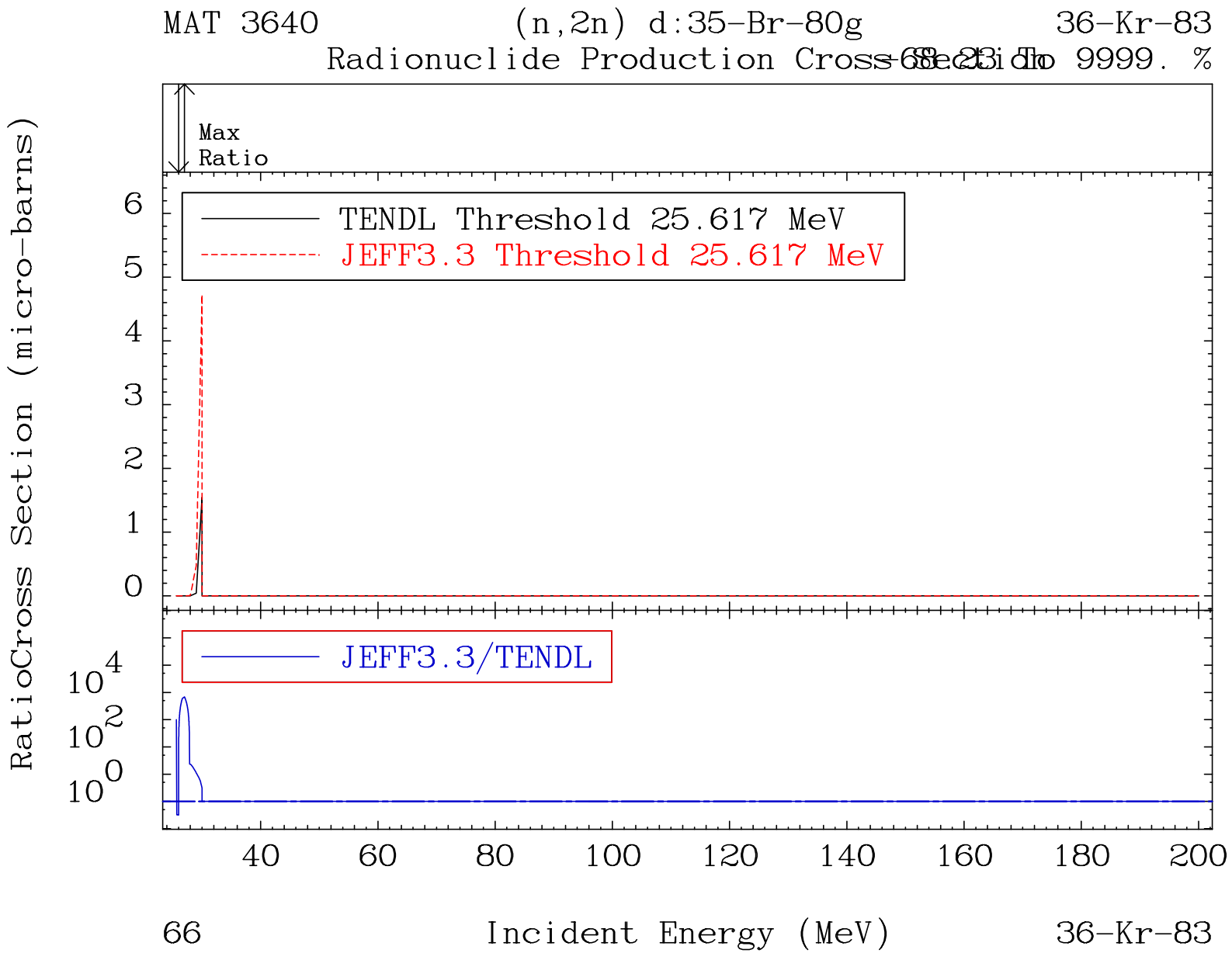

MAT 3640
Dpa elastic (mt2)
Cross Section
36-Kr-83
-99.81 To 9999. %
Max
Ratio
TENDL Threshold 505.59 eV
JEFF3.3 Threshold 506.46 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
36-Kr-83

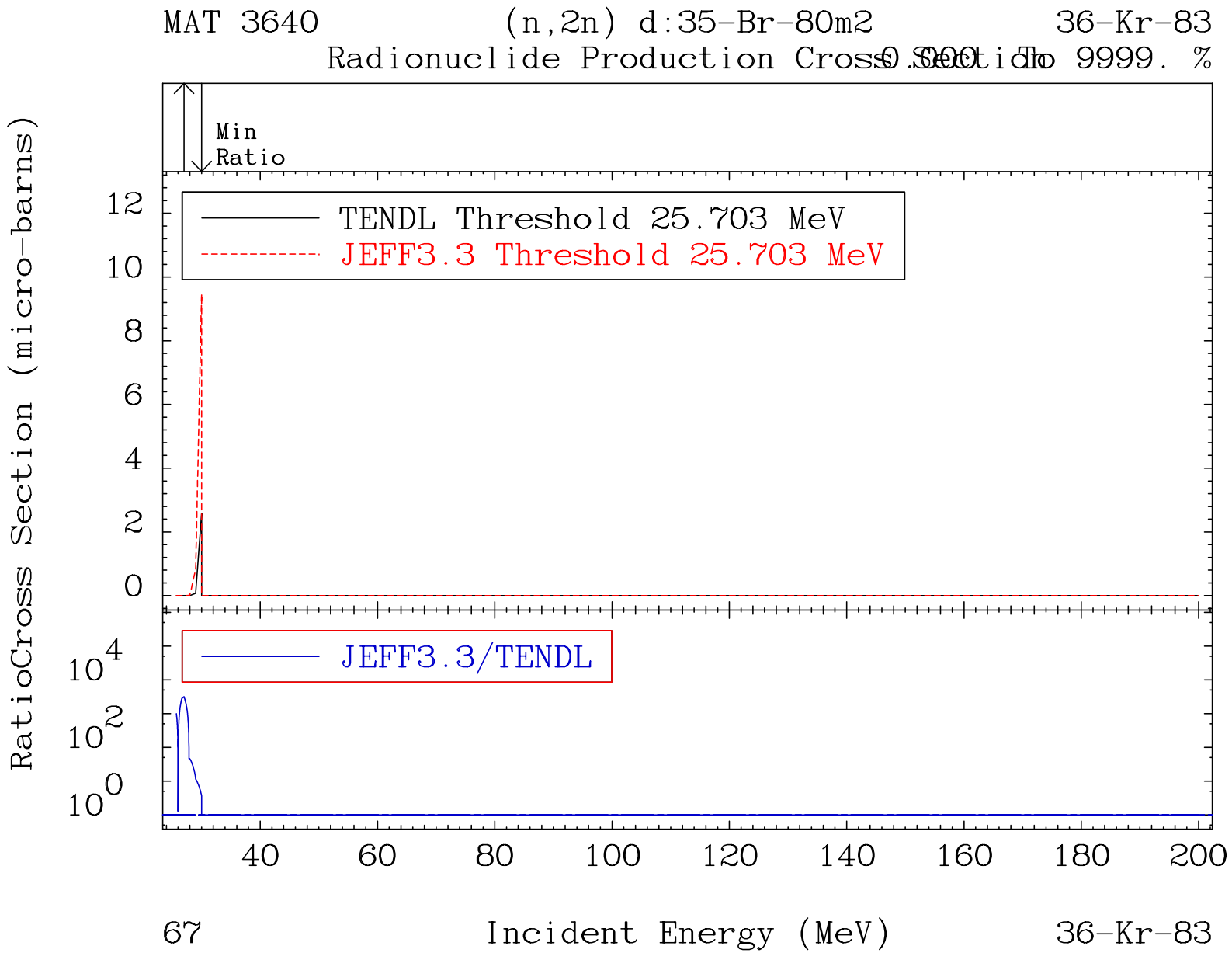

MAT 3640
Dpa inelastic (mt51-91)
36-Kr-83
Cross Section
-89.88 To 9999. %
Min
Ratio
TENDL Threshold 9.5204 keV
JEFF3.3 Threshold 9.5194 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
62
36-Kr-83

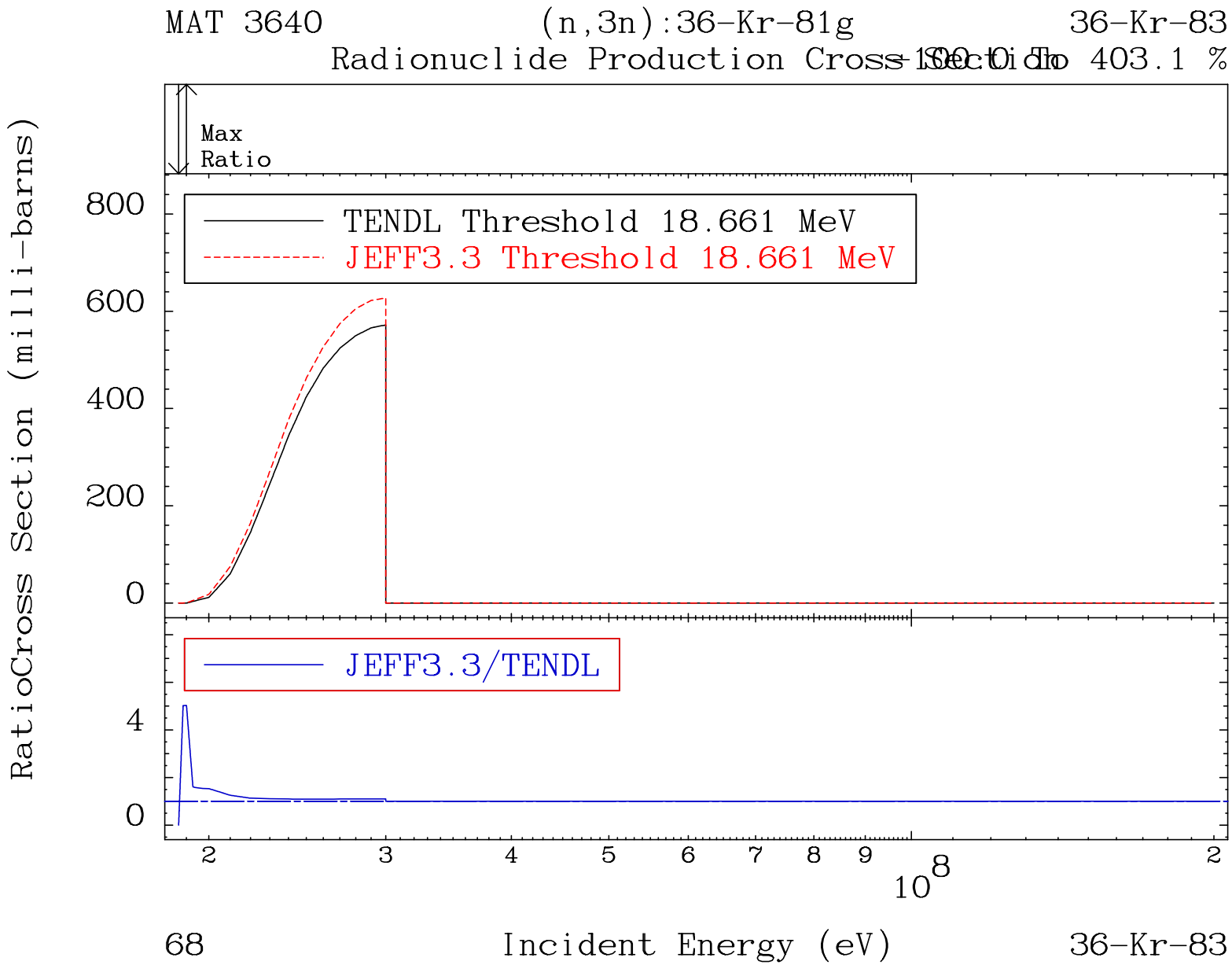

MAT 3640 Dpa disappearance (mt102 -120) 36-Kr-83
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
63
36-Kr-83

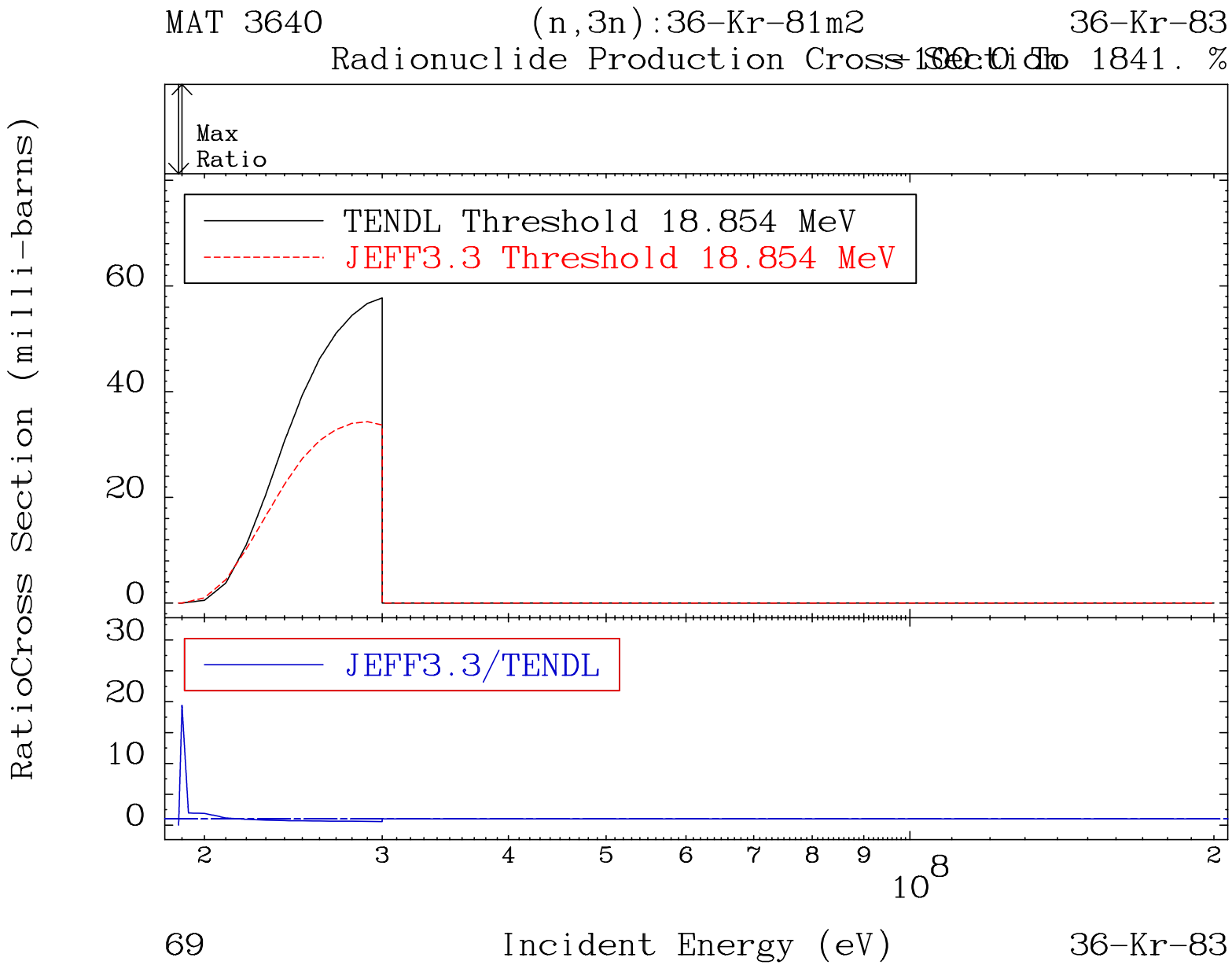

MAT 3640
Inelastic:36-Kr-83g
36-Kr-83
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
JEFF3.3 Threshold 9.5194 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
64
Incident Energy (eV)
36-Kr-83

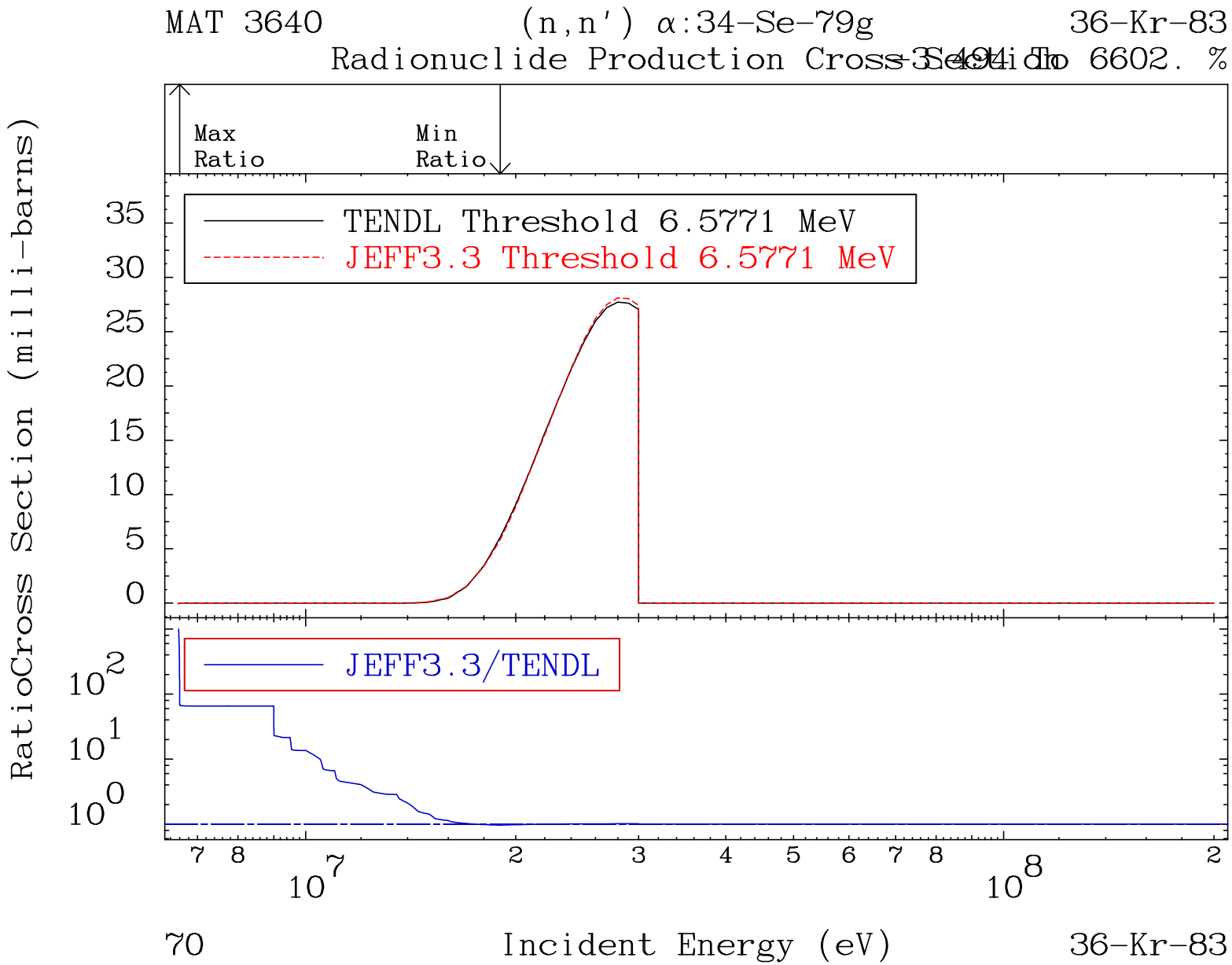

MAT 3640
Inelastic:36-Kr-83m2
36-Kr-83
Radionuclide Production Cross-Section
Min Ratio
Max Ratio
TENDL Threshold 42.064 keV
JEFF3.3 Threshold 42.064 keV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
1.6
1.2
0.8
5 7 10^5 2 3 5 7 10^6 2 3 5 7 10^7 2 3 5 7 10^8 2
65
Incident Energy (eV)
36-Kr-83

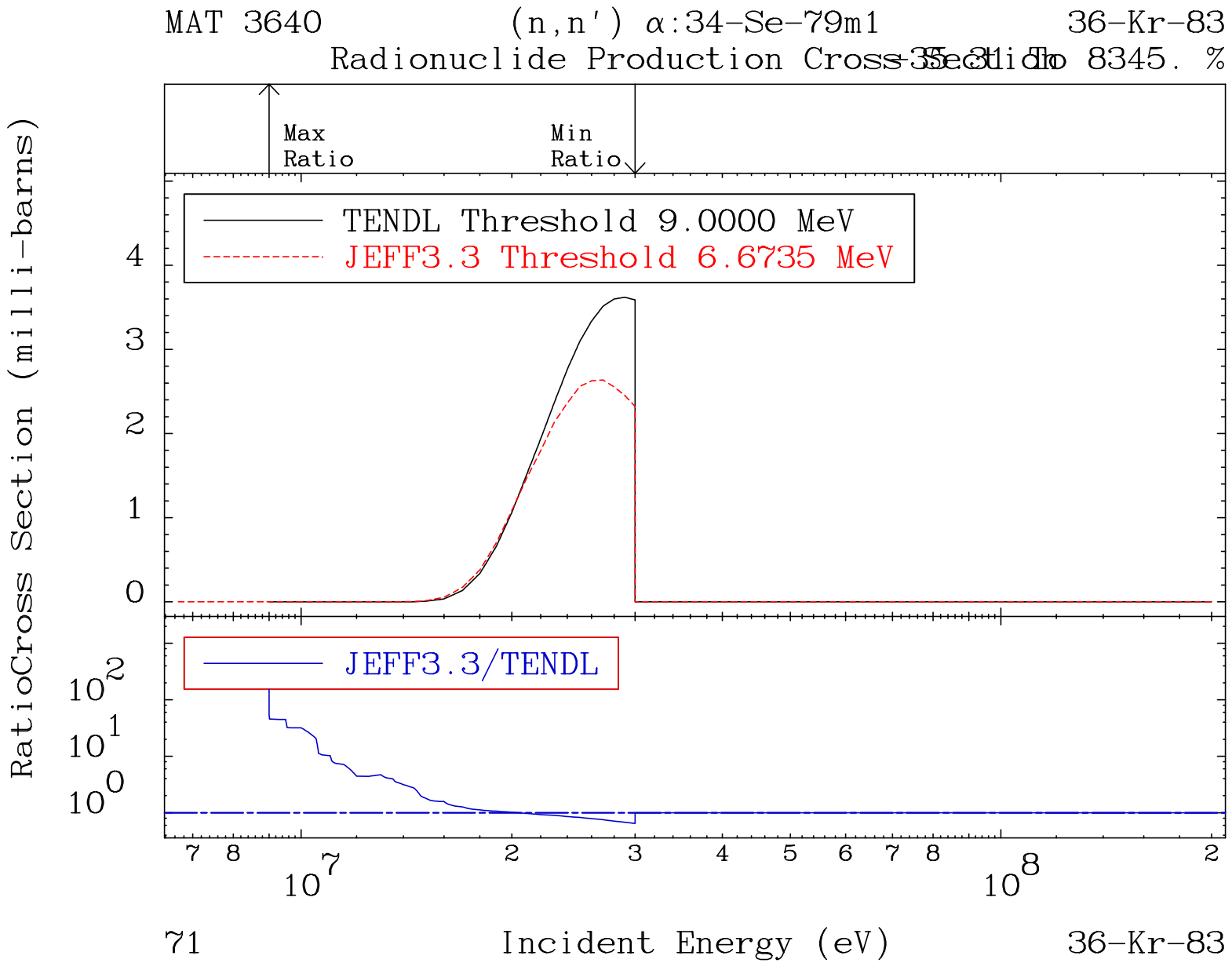

MAT 3640
(n,2n) d:35-Br-80g
36-Kr-83
Radionuclide Production Cross Section To 9999. %
Max
Ratio
TENDL Threshold 25.617 MeV
JEFF3.3 Threshold 25.617 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
0
1
2
3
4
5
6
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
66
Incident Energy (MeV)
36-Kr-83

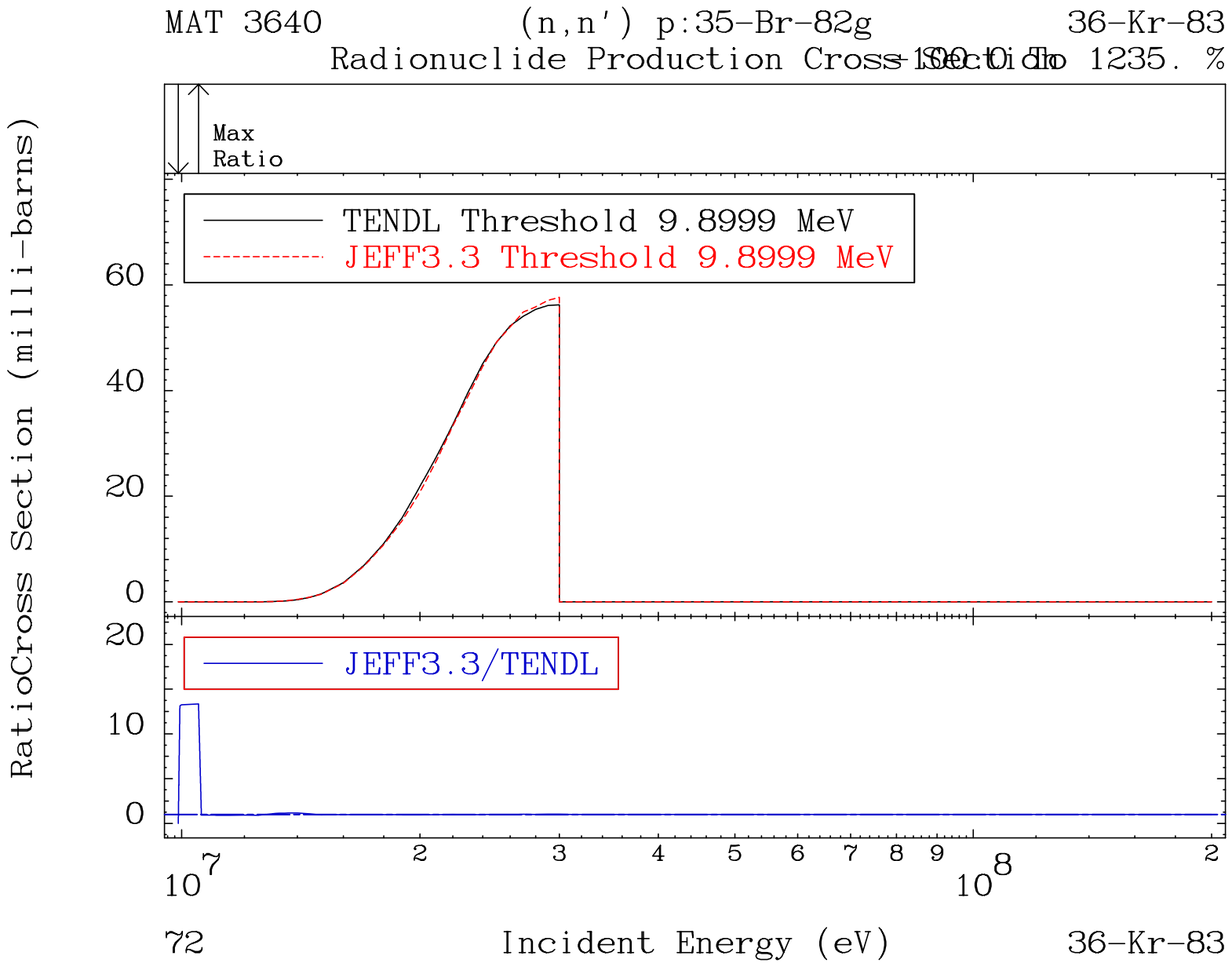

MAT 3640
(n,2n) d:35-Br-80m2
36-Kr-83
Radionuclide Production Cross Section
0.000 To 9999. %
Min
Ratio
TENDL Threshold 25.703 MeV
JEFF3.3 Threshold 25.703 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
12
10
8
6
4
2
0
10^4
10^2
10^0
40
60
80
100
120
140
160
180
200
67
Incident Energy (MeV)
36-Kr-83

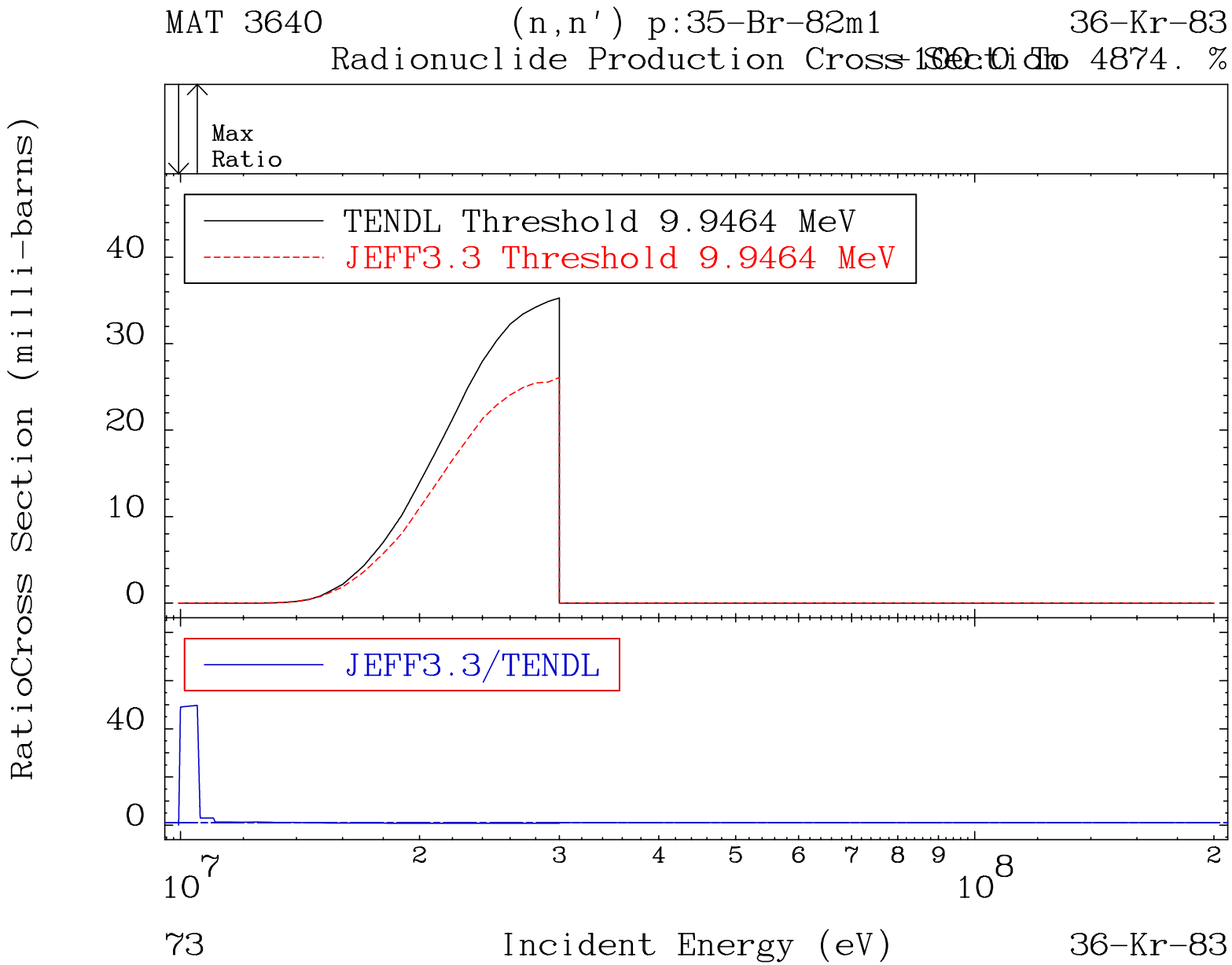

MAT 3640
(n,3n):36-Kr-81g
36-Kr-83
Radionuclide Production Cross Section
Max Ratio
800
600
400
200
0
TENDL Threshold 18.661 MeV
JEFF3.3 Threshold 18.661 MeV
JEFF3.3/TENDL
4
0
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (milli-barns)
68
Incident Energy (eV)
36-Kr-83

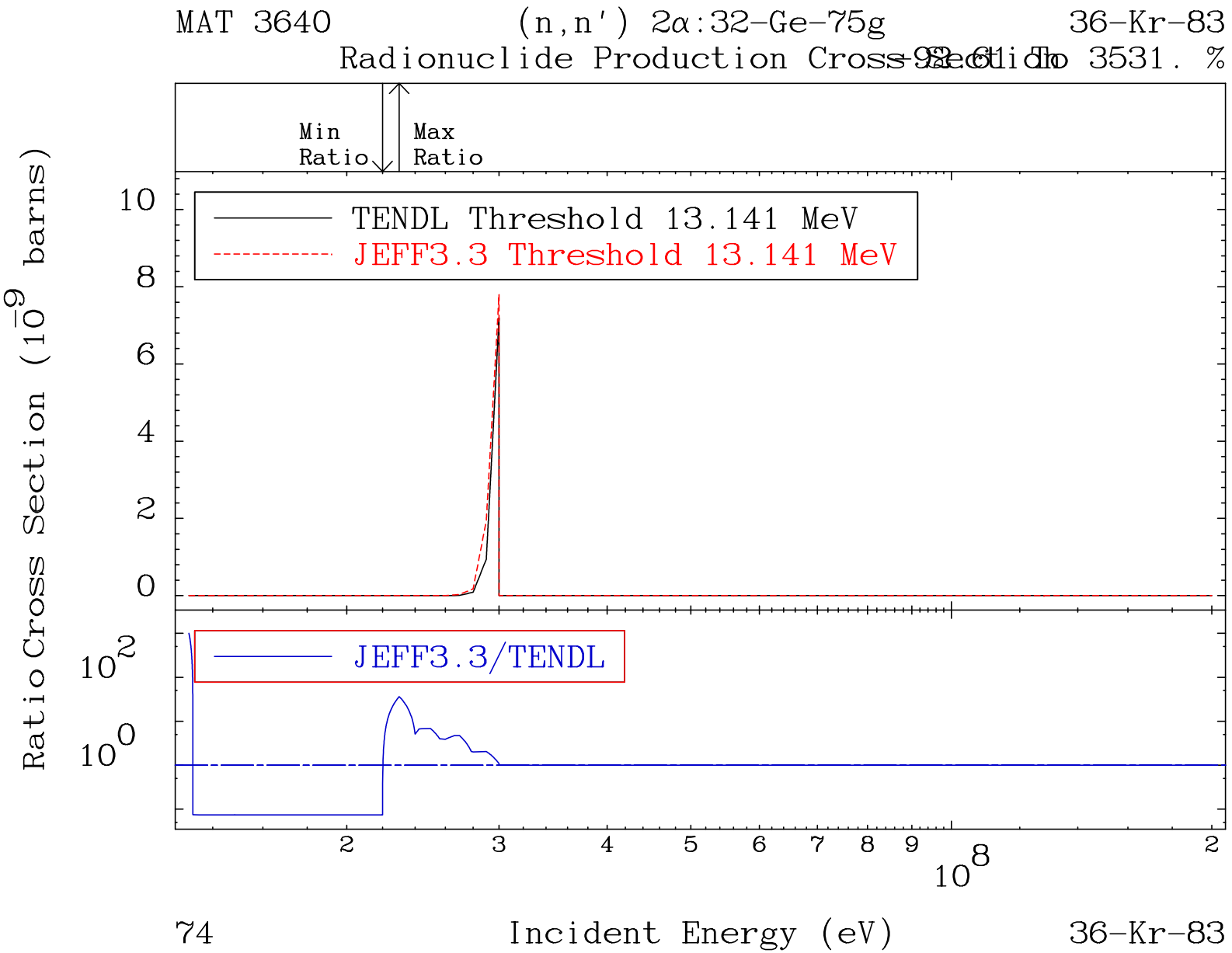

MAT 3640
(n,3n):36-Kr-81m2
36-Kr-83
Radionuclide Production Cross Section
Max
Ratio
TENDL Threshold 18.854 MeV
JEFF3.3 Threshold 18.854 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
69
36-Kr-83

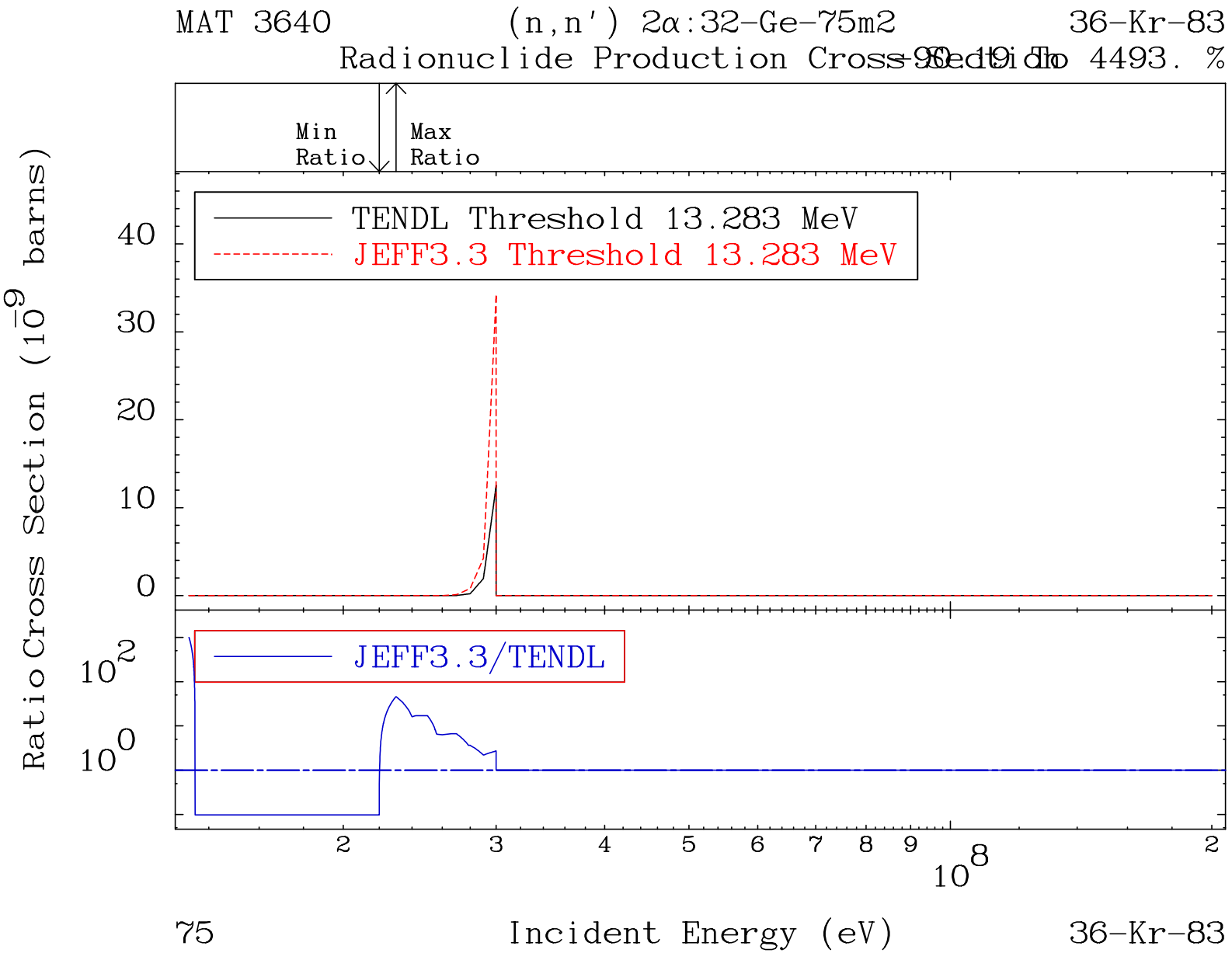

MAT 3640
(n,n') α:34-Se-79g
36-Kr-83
Radionuclide Production Cross Section To 6602. %
Max Ratio
Min Ratio
TENDL Threshold 6.5771 MeV
JEFF3.3 Threshold 6.5771 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
70
36-Kr-83

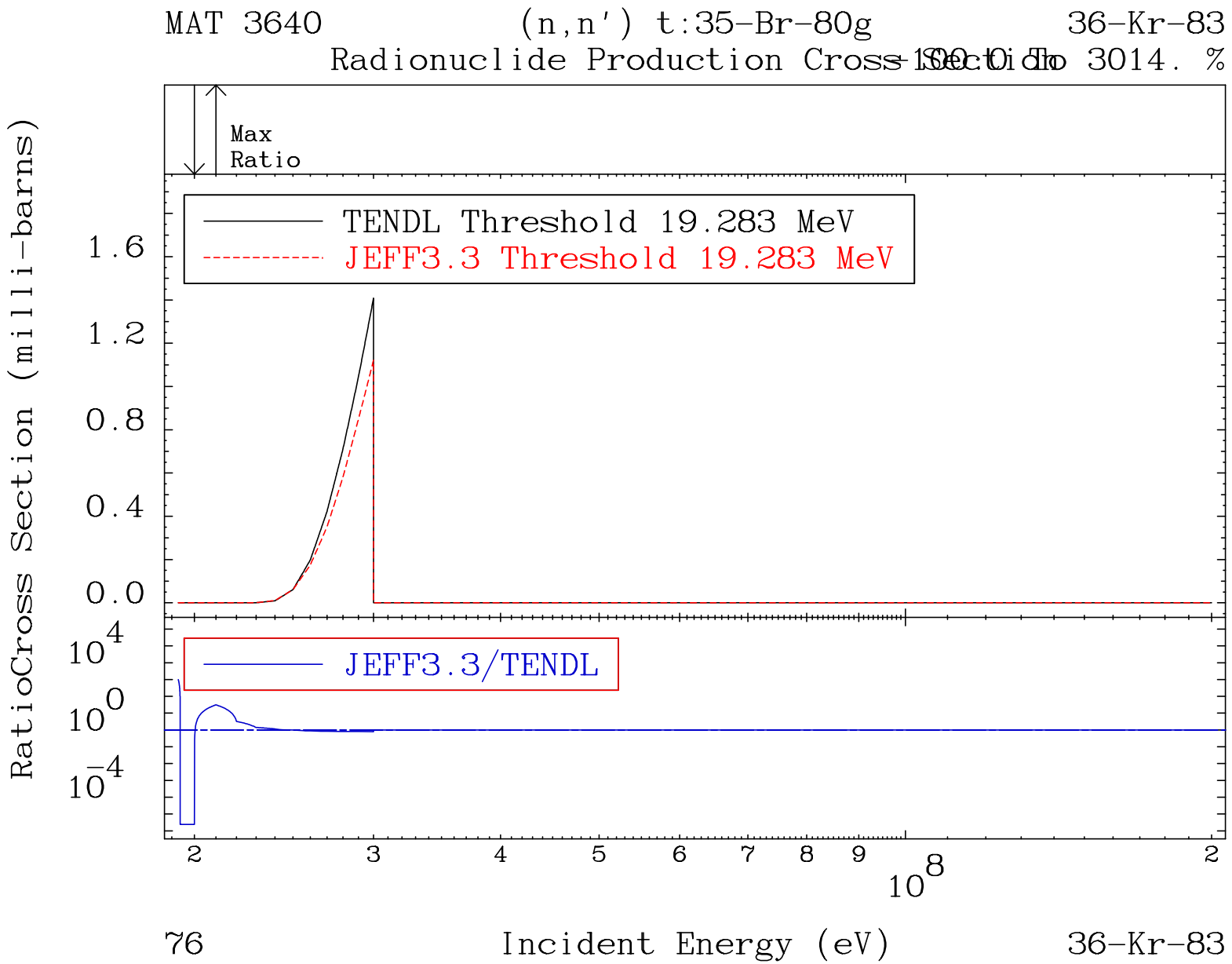

MAT 3640
(n,n') α:34-Se-79m1
36-Kr-83
Radionuclide Production Cross Section To 8345. %
Max Ratio
Min Ratio
TENDL Threshold 9.0000 MeV
JEFF3.3 Threshold 6.6735 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
71
36-Kr-83

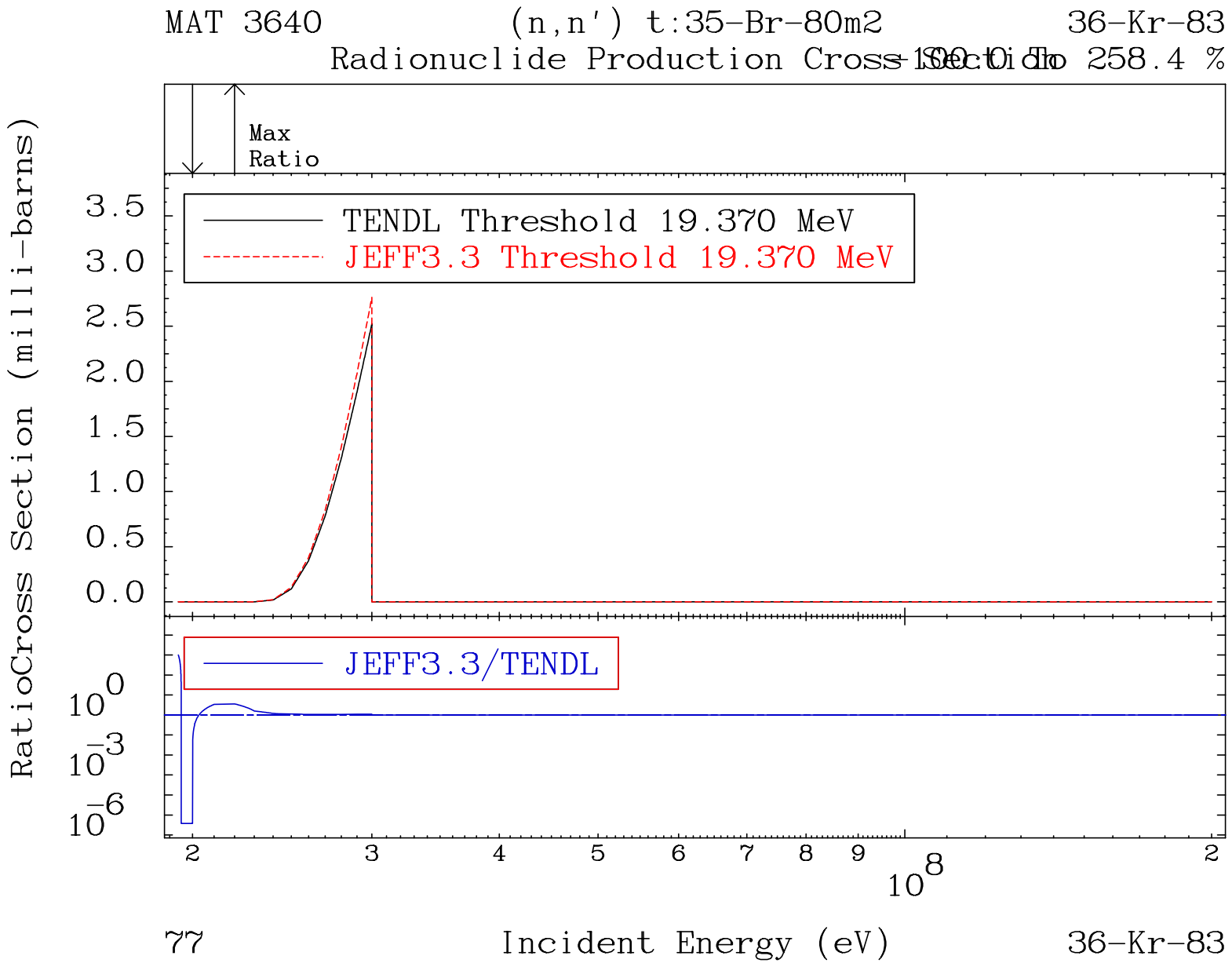

MAT 3640
(n,n') p:35-Br-82g
36-Kr-83
Radionuclide Production Cross Section To 1235. %
Max
Ratio
TENDL Threshold 9.8999 MeV
JEFF3.3 Threshold 9.8999 MeV
60
40
20
0
JEFF3.3/TENDL
20
10
0
RatioCross Section (milli-barns)
10^7
2
3
4
5
6
7
8
9
10^8
2
72
Incident Energy (eV)
36-Kr-83

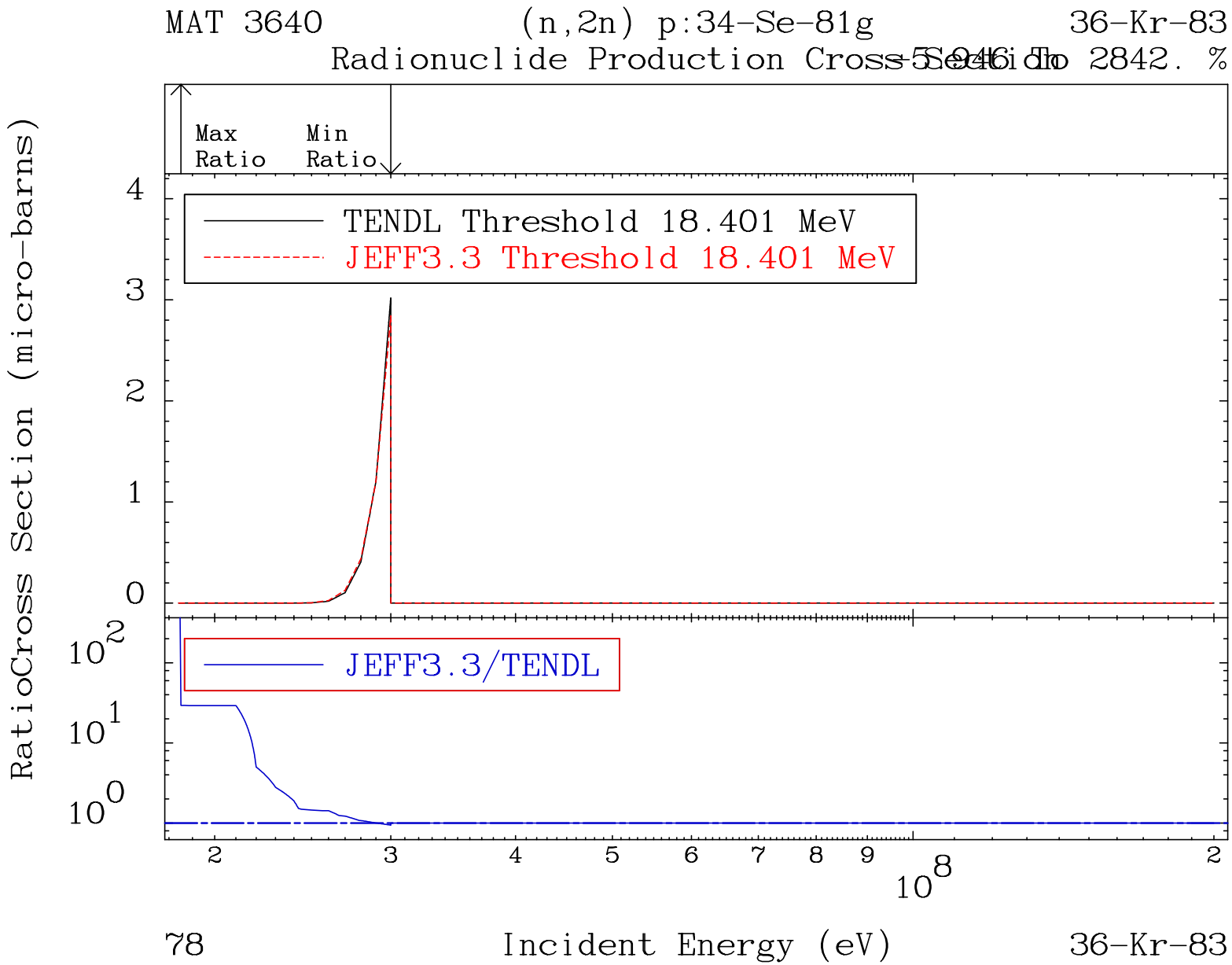

MAT 3640
(n,n') p:35-Br-82m1
36-Kr-83
Radionuclide Production Cross Section
Max Ratio
TENDL Threshold 9.9464 MeV
JEFF3.3 Threshold 9.9464 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
40
0
10^7
2
3
4
5
6
7
8
9
10^8
2
73
Incident Energy (eV)
36-Kr-83

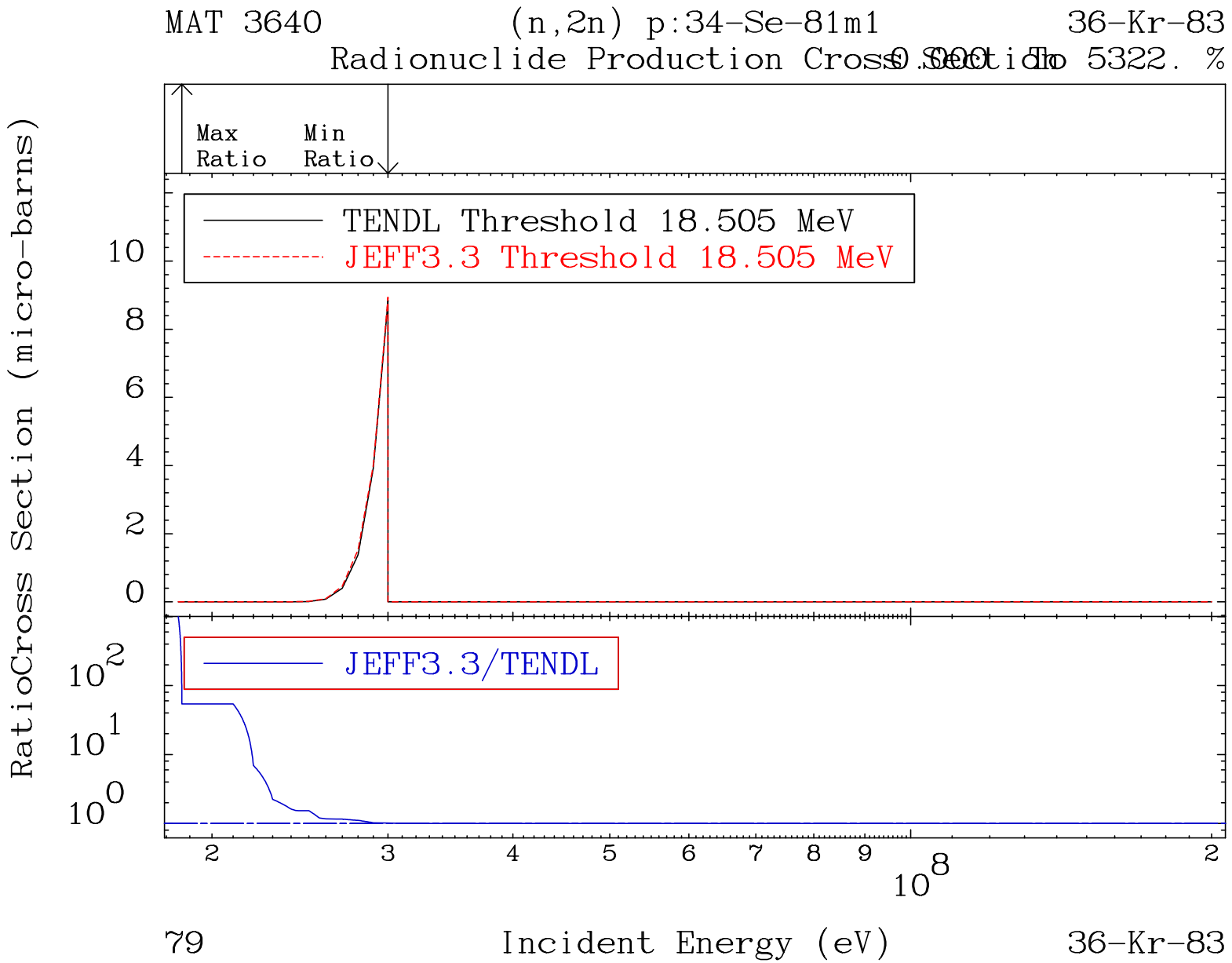

MAT 3640
(n,n') 2α:32-Ge-75g
36-Kr-83
Radionuclide Production Cross Section To 3531. %
Min Ratio
Max Ratio
TENDL Threshold 13.141 MeV
JEFF3.3 Threshold 13.141 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
74
36-Kr-83

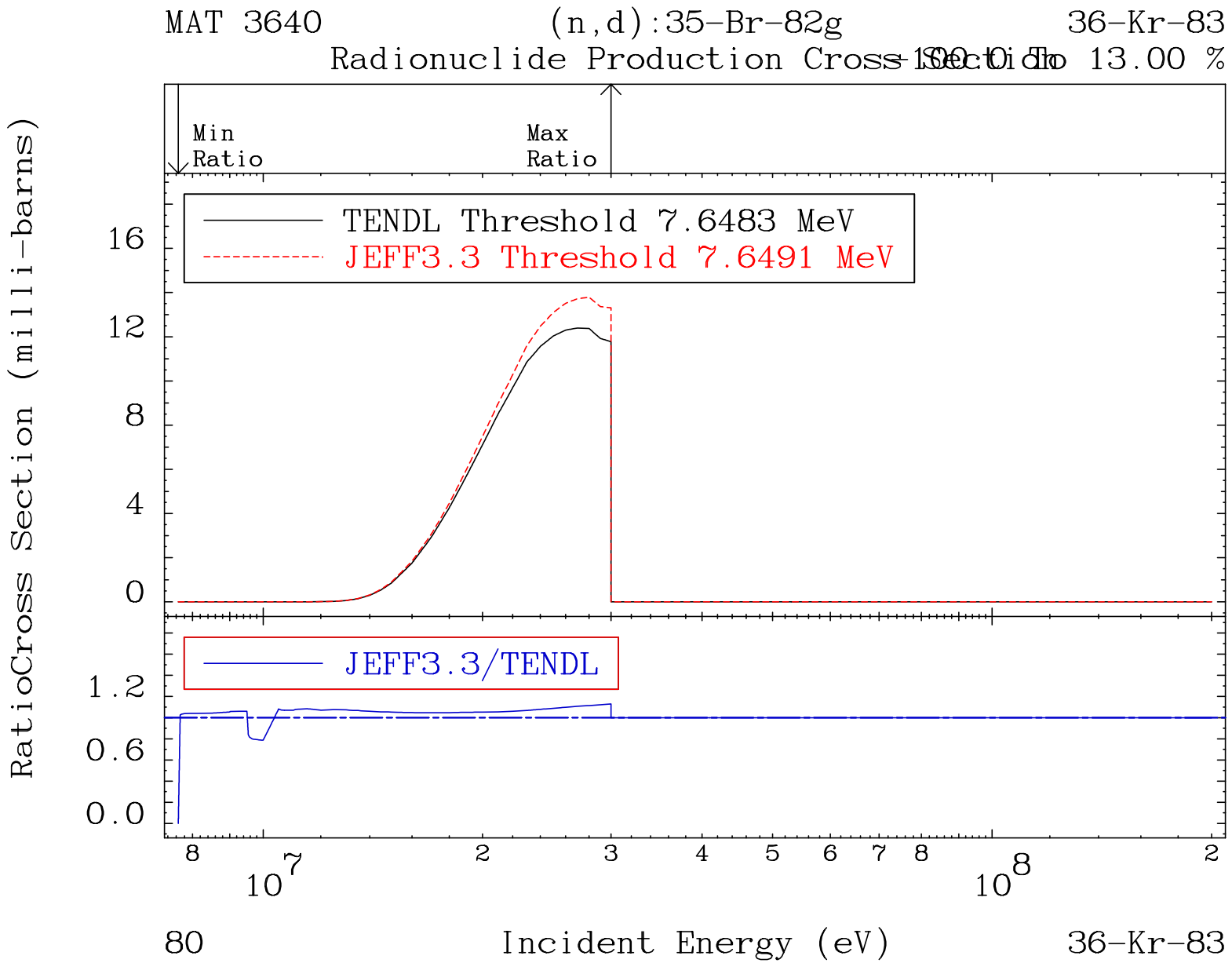

MAT 3640
(n,n') 2α:32-Ge-75m2
36-Kr-83
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL Threshold 13.283 MeV
JEFF3.3 Threshold 13.283 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^-9 barns)
Incident Energy (eV)
75
36-Kr-83

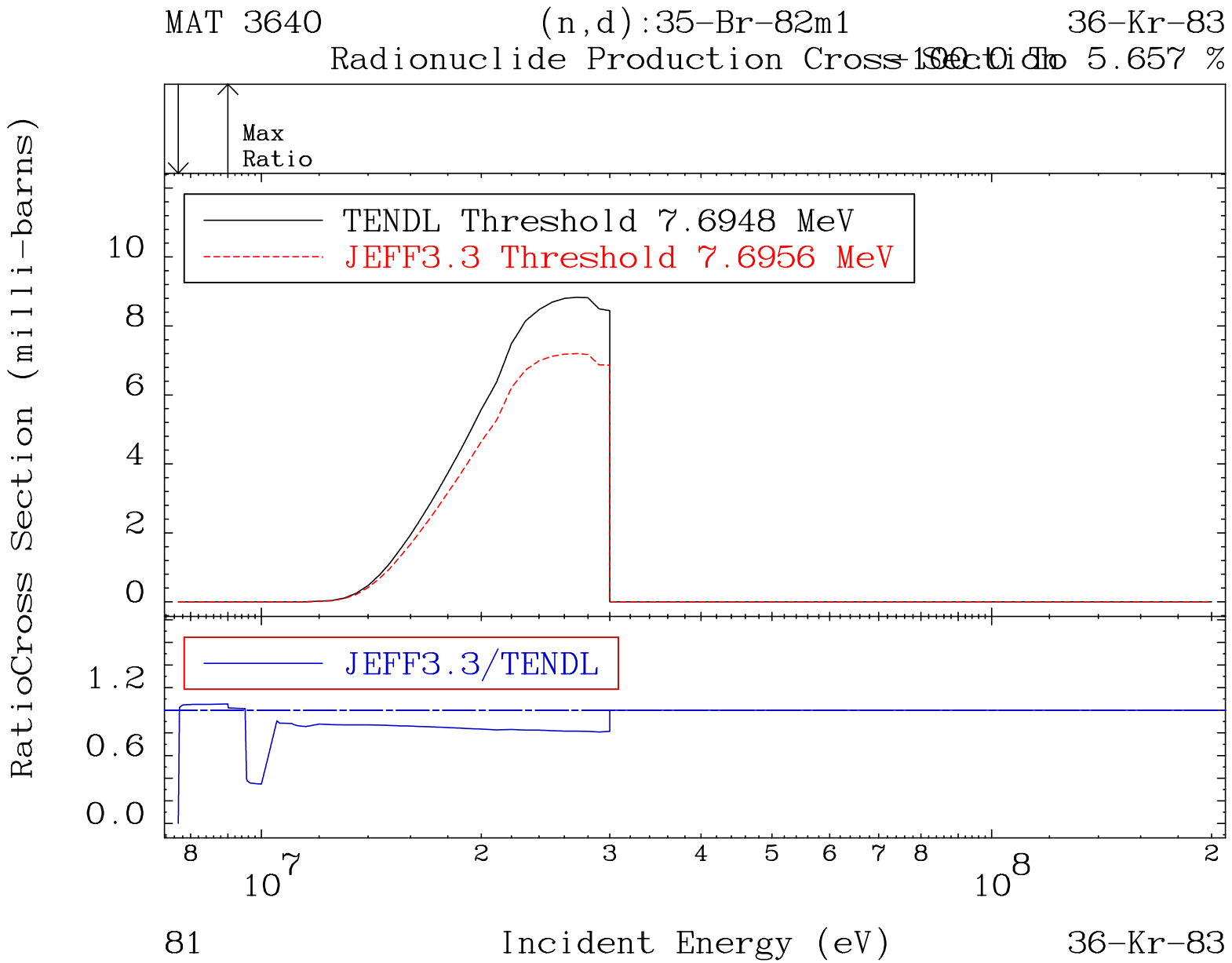

MAT 3640
(n,n') t:35-Br-80g
36-Kr-83
Radionuclide Production Cross Section To 3014. %
Max
Ratio
TENDL Threshold 19.283 MeV
JEFF3.3 Threshold 19.283 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
10^4
10^0
10^-4
2
3
4
5
6
7
8
9
10^8
2
76
Incident Energy (eV)
36-Kr-83

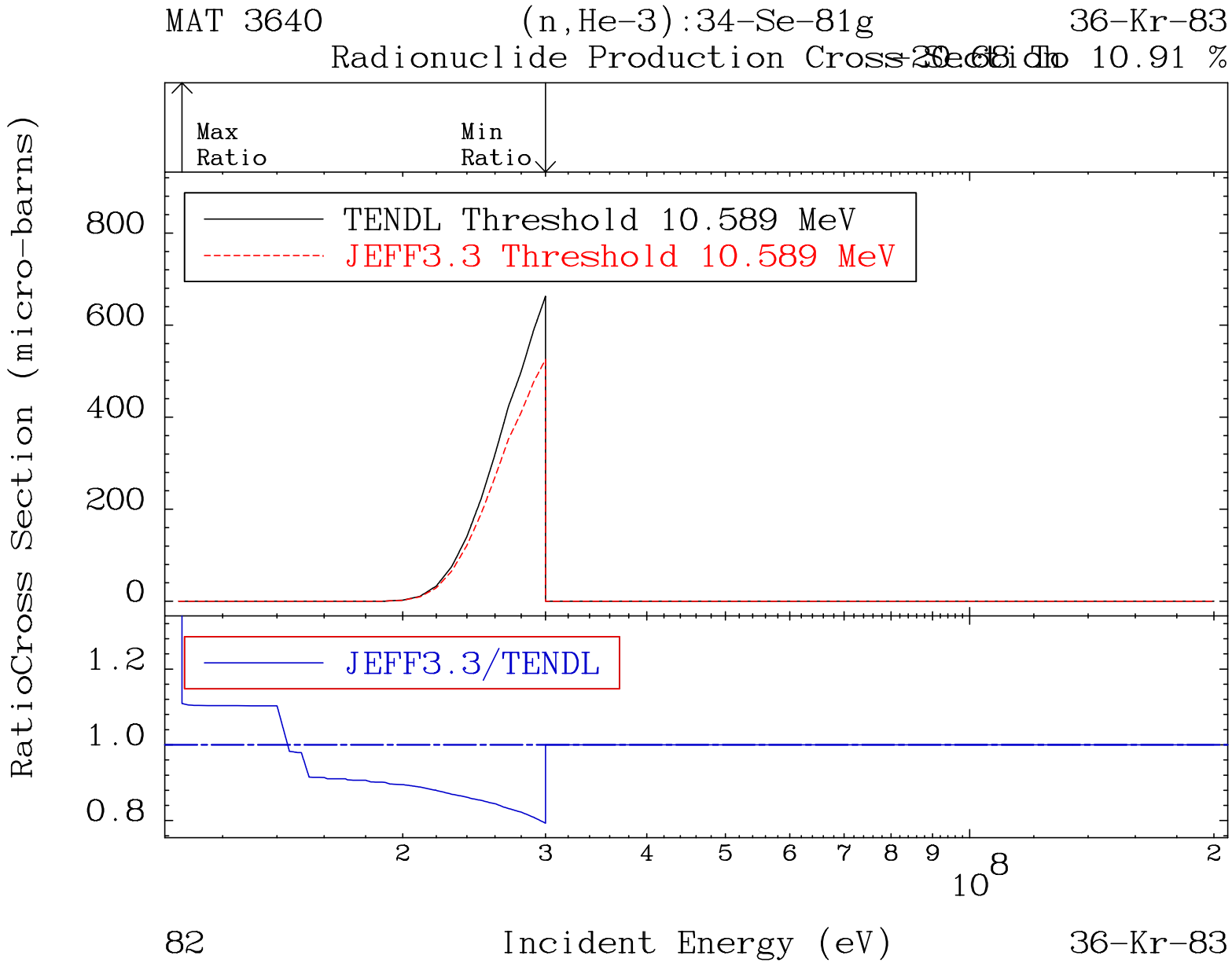

MAT 3640
(n,n') t:35-Br-80m2
36-Kr-83
Radionuclide Production Cross Section To 258.4 %
Max
Ratio
TENDL Threshold 19.370 MeV
JEFF3.3 Threshold 19.370 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^0
10^-3
10^-6
2
3
4
5
6
7
8
9
10^8
2
77
Incident Energy (eV)
36-Kr-83

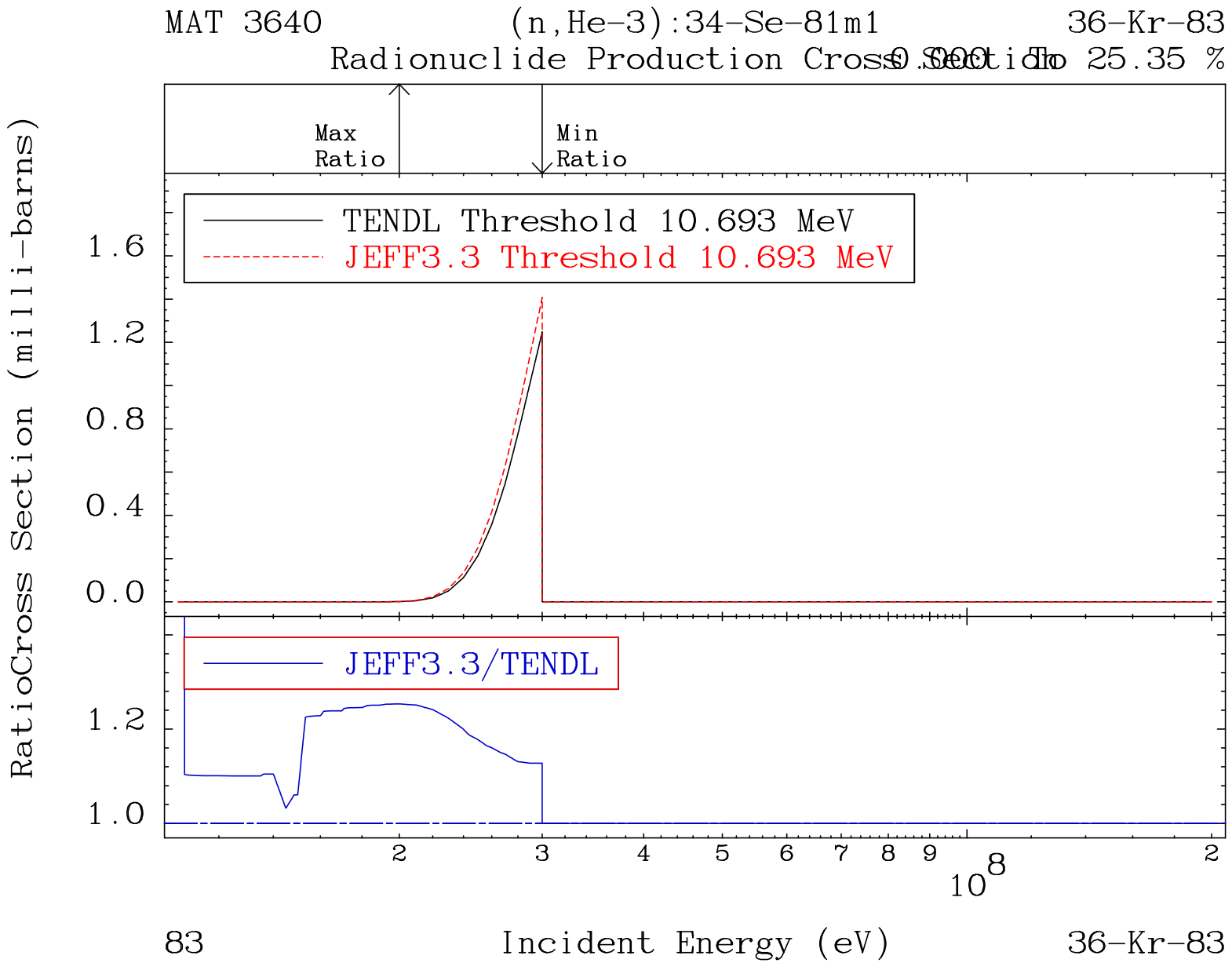

MAT 3640
(n,2n) p:34-Se-81g
36-Kr-83
Radionuclide Production Cross Section
Max Ratio
Min Ratio
TENDL Threshold 18.401 MeV
JEFF3.3 Threshold 18.401 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
Incident Energy (eV)
78
36-Kr-83

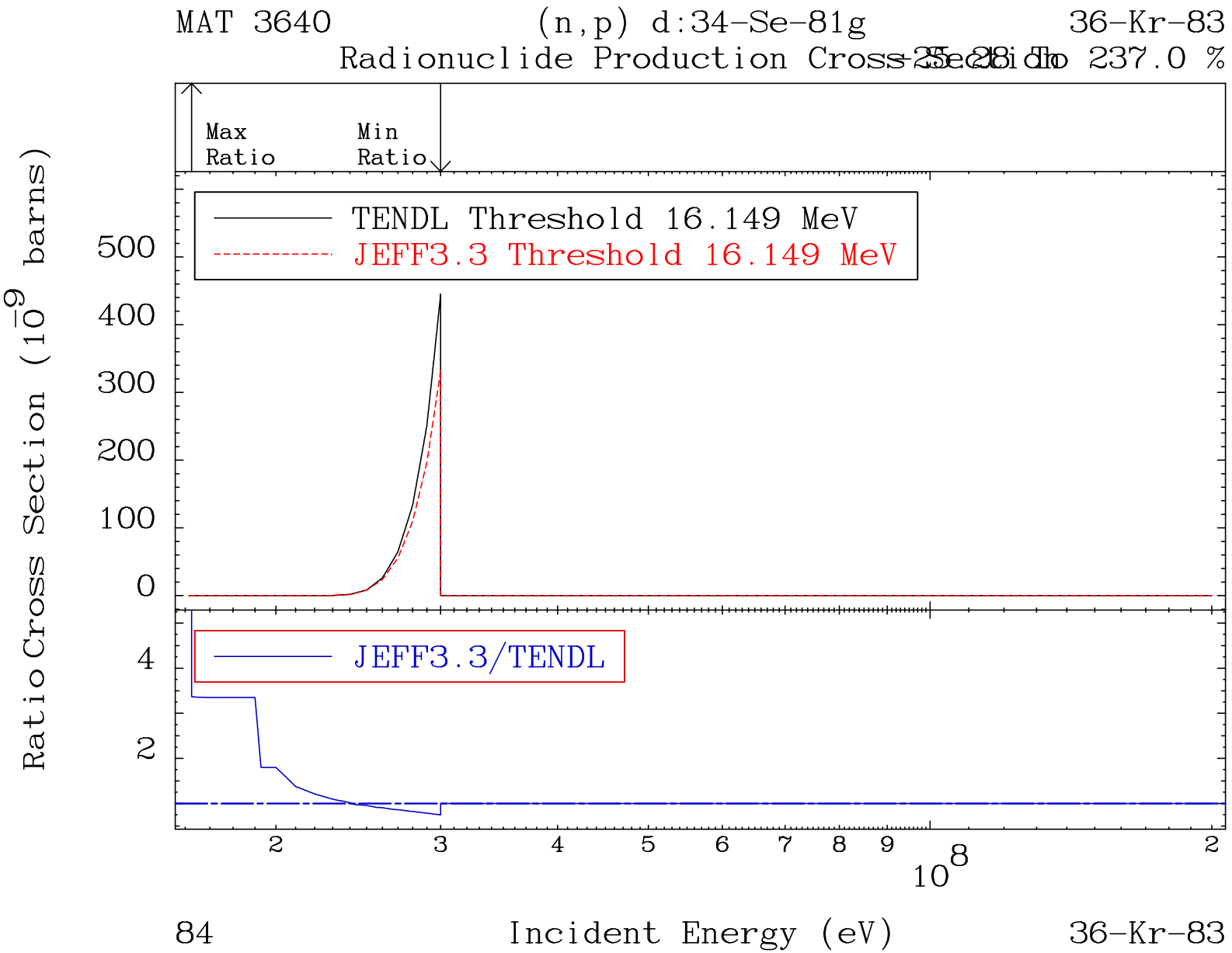

MAT 3640
(n,2n) p:34-Se-81m1
36-Kr-83
Radionuclide Production Cross Section
0.000 To 5322. %
Max Ratio
Min Ratio
TENDL Threshold 18.505 MeV
JEFF3.3 Threshold 18.505 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
36-Kr-83

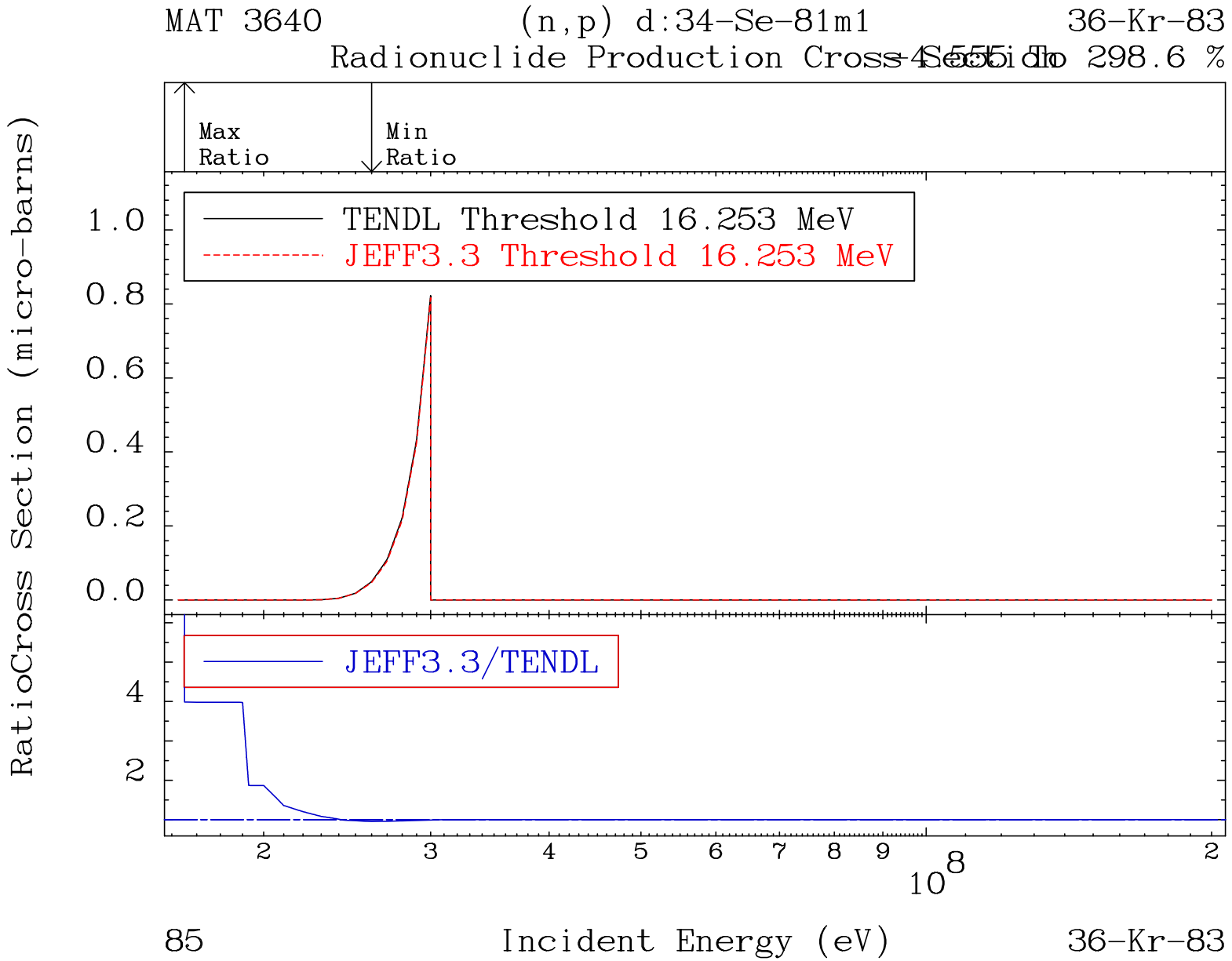

MAT 3640
(n,d):35-Br-82g
36-Kr-83
Radionuclide Production Cross Section
Uncertainty 13.00 %
Min Ratio
Max Ratio
TENDL Threshold 7.6483 MeV
JEFF3.3 Threshold 7.6491 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
1.2
0.6
0.0
8
10^7
2
3
4
5
6
7
8
10^8
2
80
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,d):35-Br-82m1
36-Kr-83
Radionuclide Production Cross Section To 5.657 %
Max
Ratio
TENDL Threshold 7.6948 MeV
JEFF3.3 Threshold 7.6956 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
81
36-Kr-83


MAT 3640
(n,He-3):34-Se-81g
36-Kr-83
Radionuclide Production Cross Section To 10.91 %
Max Ratio
Min Ratio
TENDL Threshold 10.589 MeV
JEFF3.3 Threshold 10.589 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
1.2
1.0
0.8
2
3
4
5
6
7
8
9
2
10^8
82
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,He-3):34-Se-81m1
36-Kr-83
Radionuclide Production Cross Section
0.000 To 25.35 %
Max Ratio
Min Ratio
TENDL Threshold 10.693 MeV
JEFF3.3 Threshold 10.693 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
1.6
1.2
0.8
0.4
0.0
1.2
1.0
2
3
4
5
6
7
8
9
2
10^8
83
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,p) d:34-Se-81g
36-Kr-83
Radionuclide Production Cross Section To 237.0 %
Max Ratio
Min Ratio
TENDL Threshold 16.149 MeV
JEFF3.3 Threshold 16.149 MeV
JEFF3.3/TENDL
Ratio Cross Section (10^{-9} barns)
500
400
300
200
100
0
4
2
2
3
4
5
6
7
8
9
10^8
2
84
Incident Energy (eV)
36-Kr-83


MAT 3640
(n,p) d:34-Se-81m1
36-Kr-83
Radionuclide Production Cross-Section To 298.6 %
Max Ratio
Min Ratio
TENDL Threshold 16.253 MeV
JEFF3.3 Threshold 16.253 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
1.0
0.8
0.6
0.4
0.2
0.0
4
2
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
36-Kr-83