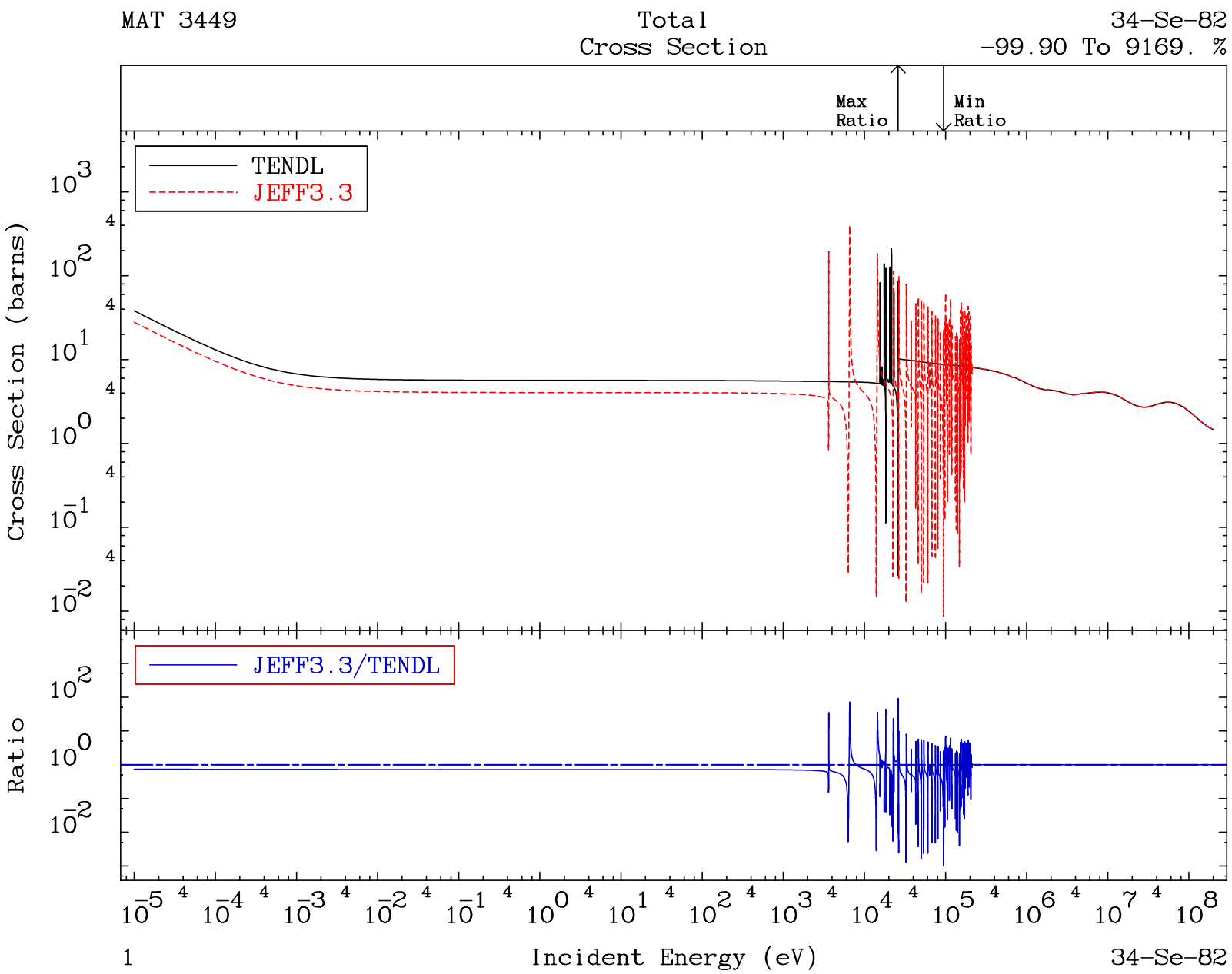
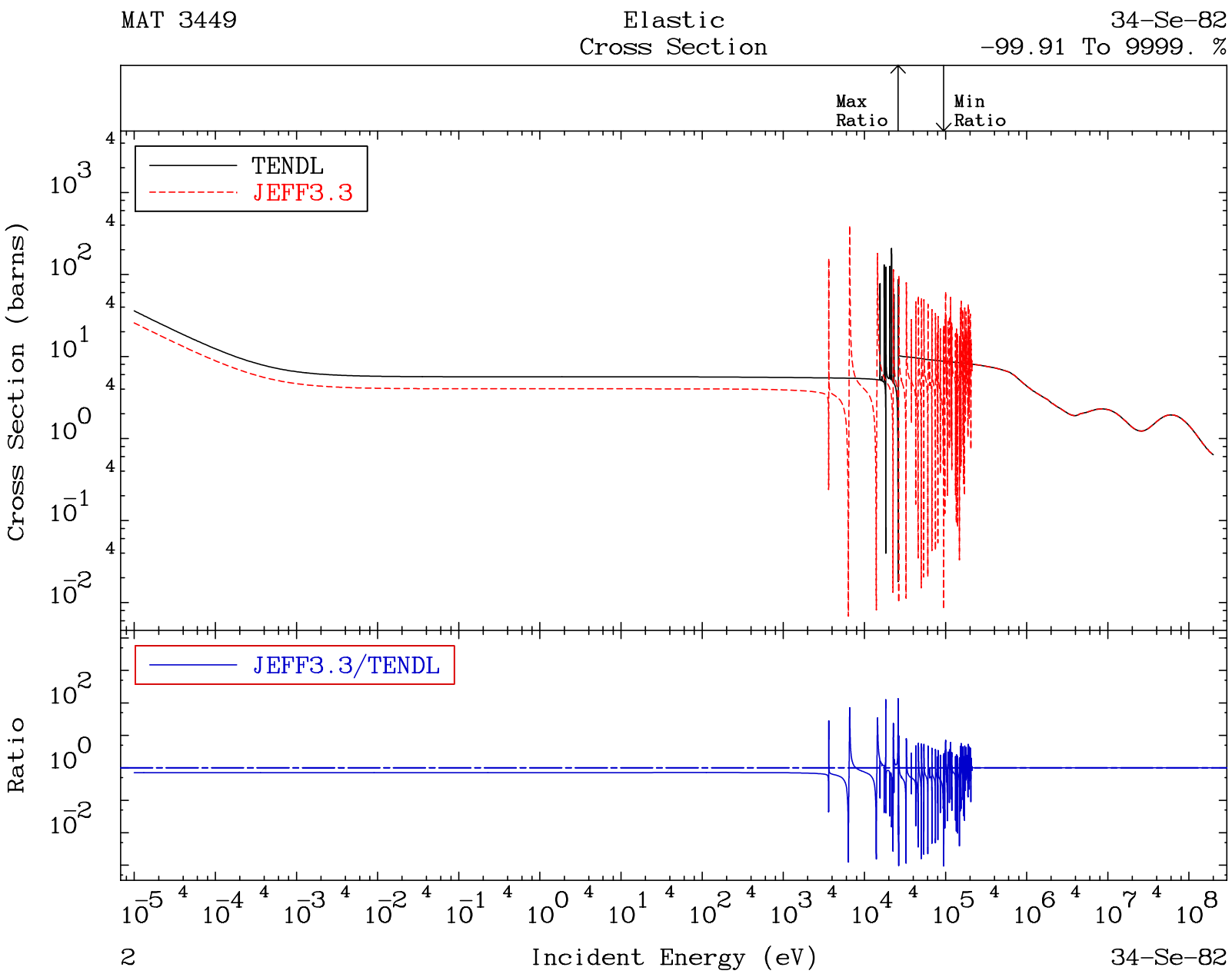
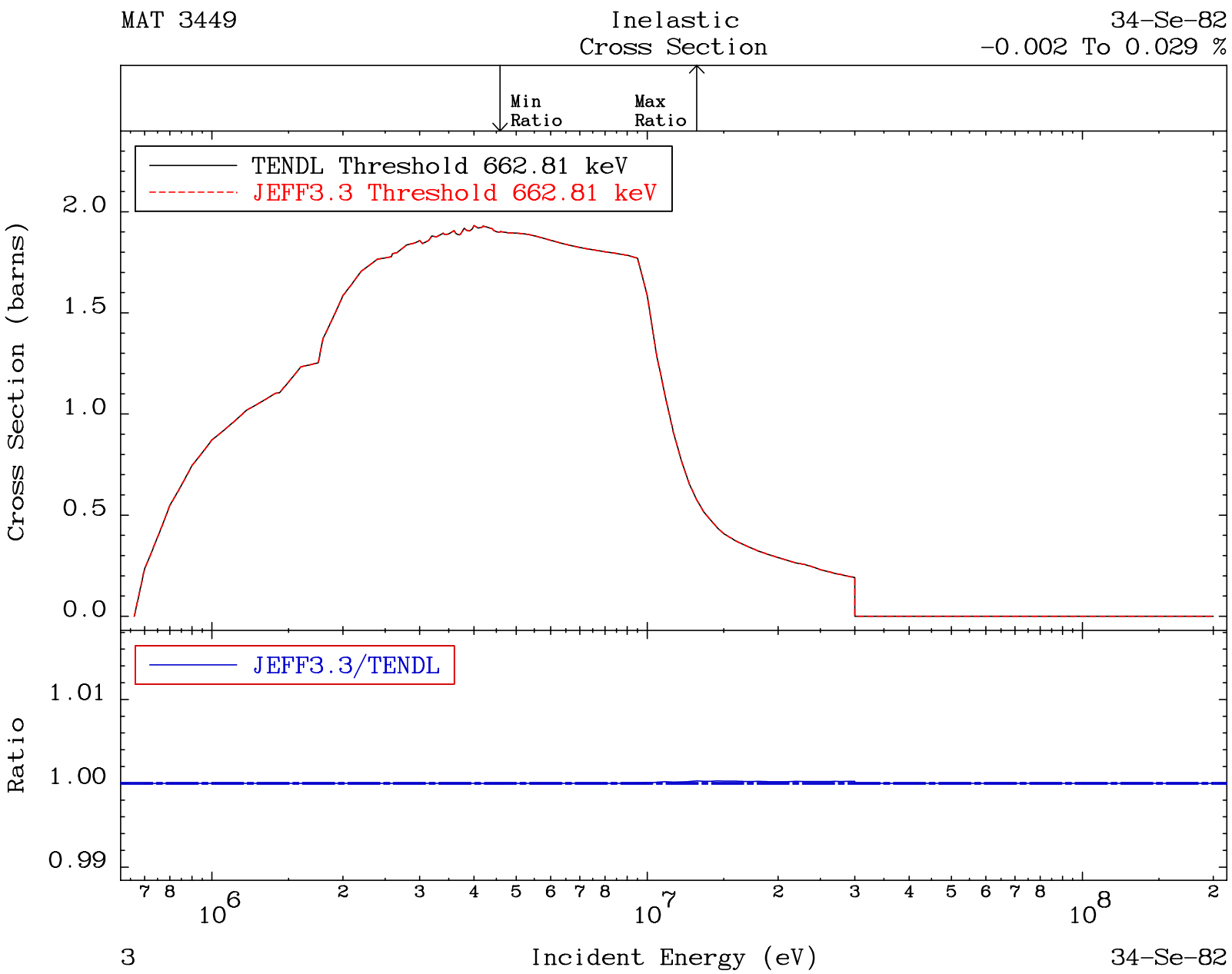
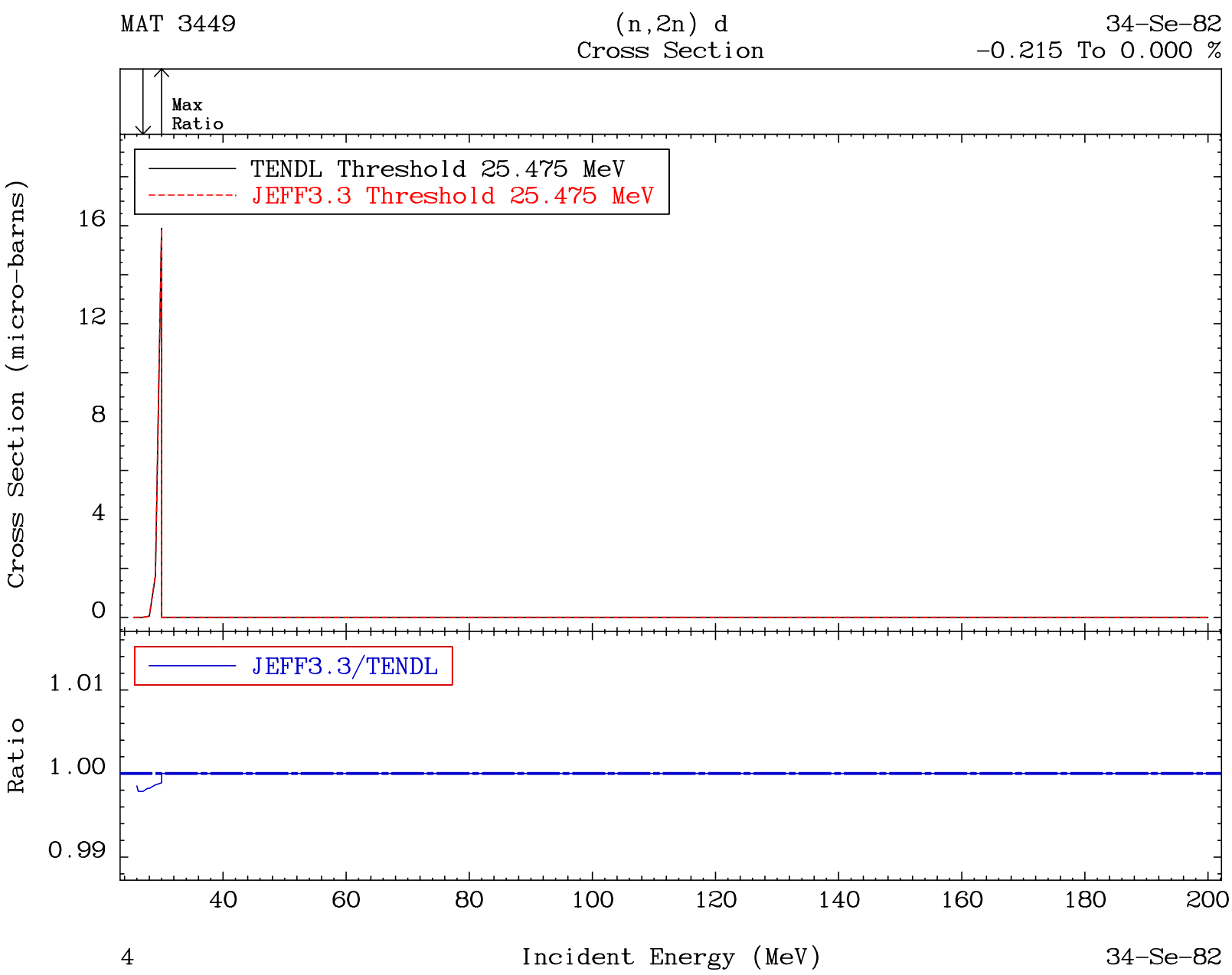
Program Complot
(Version 2018-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

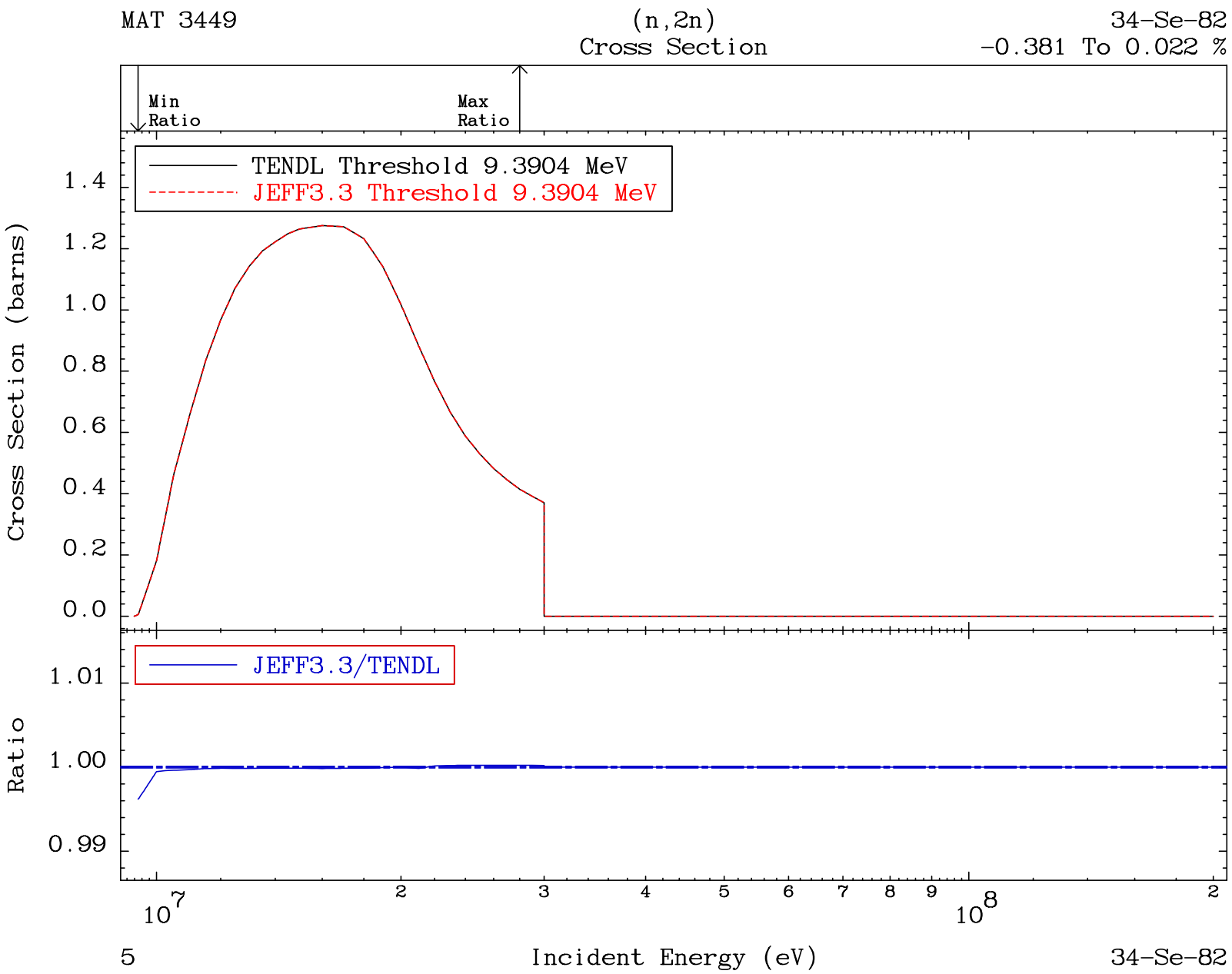
Press Mouse Button to Start

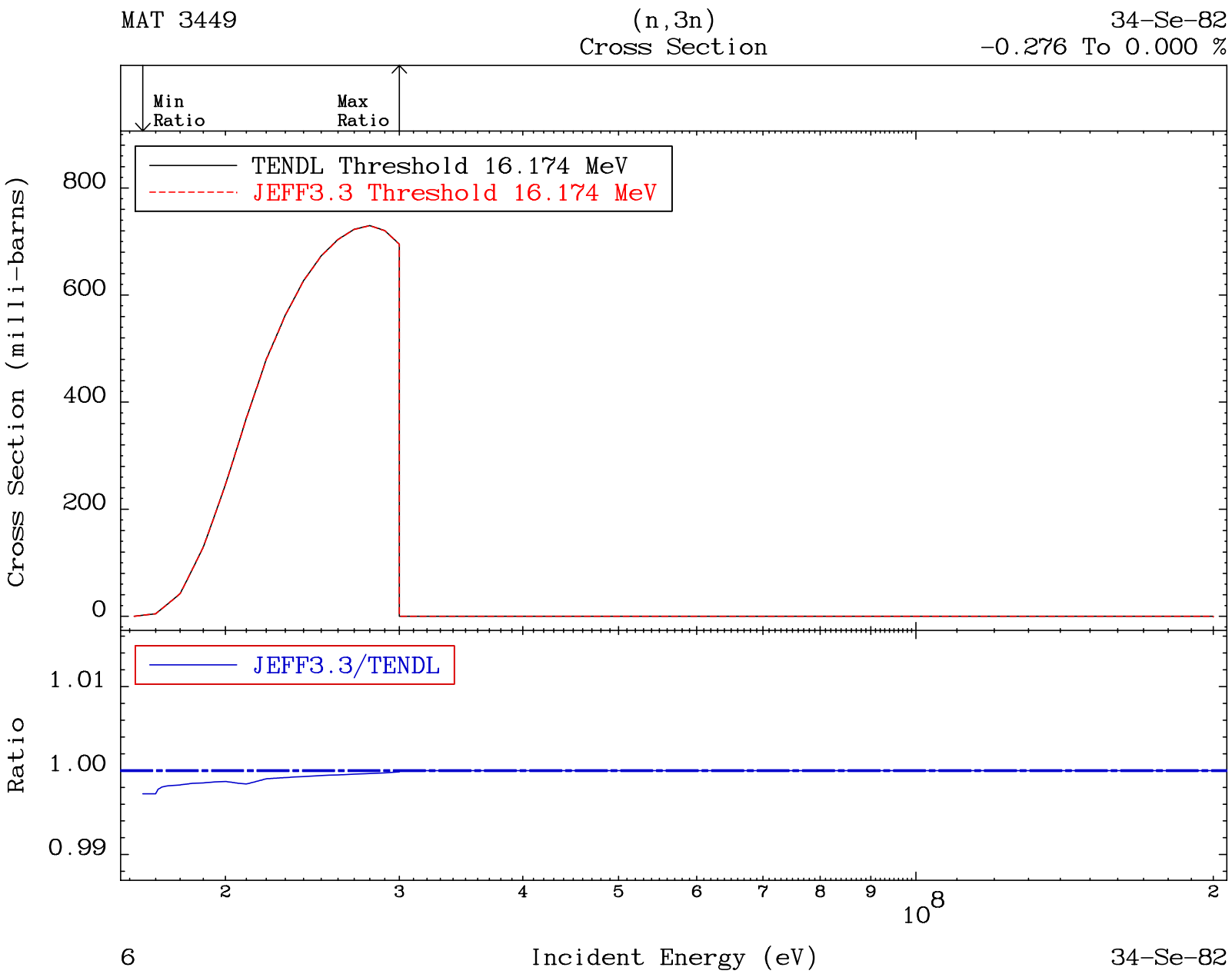

MAT 3449
Total
Cross Section
34-Se-82
-99.90 To 9169. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
1
34-Se-82

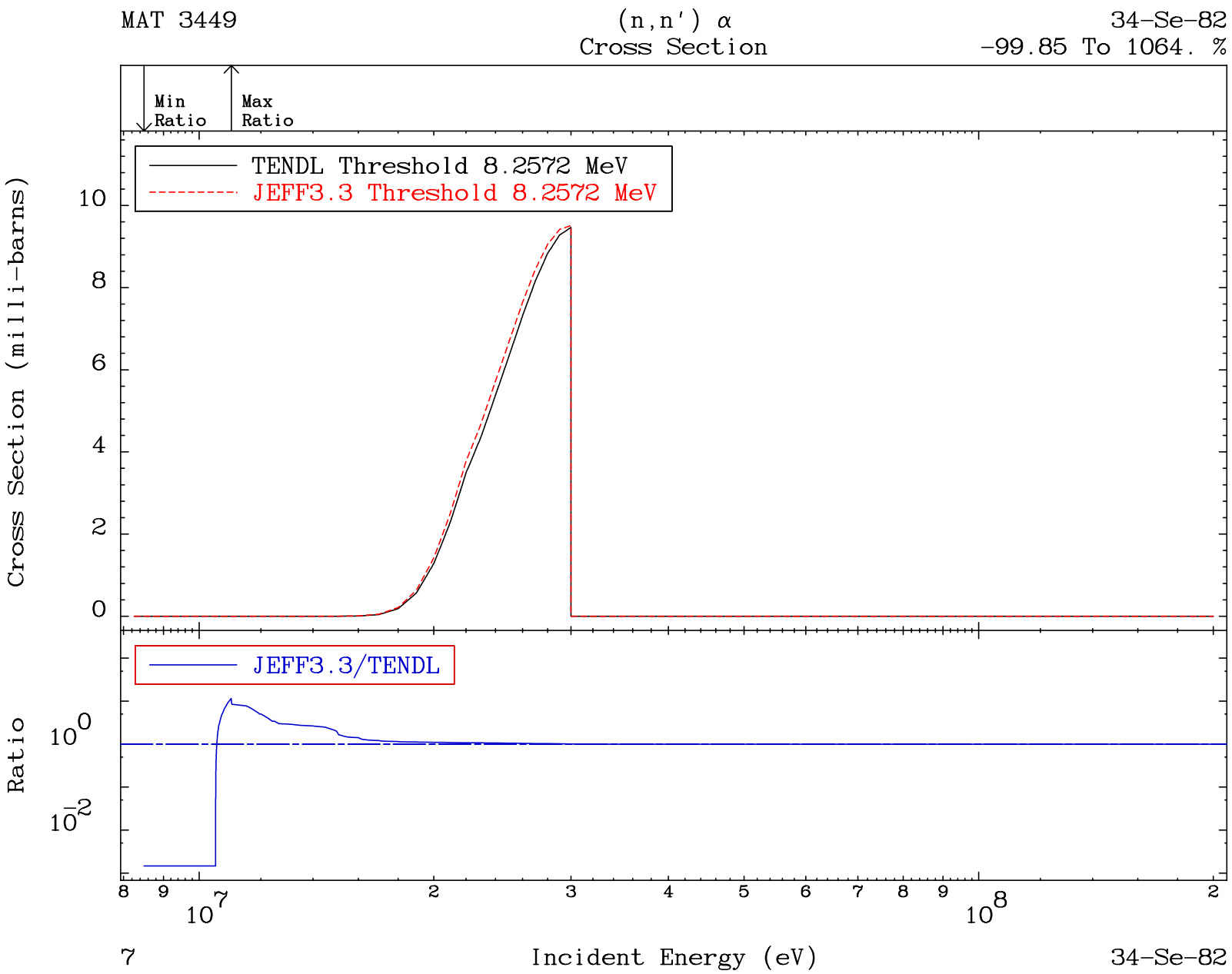

MAT 3449
Elastic
Cross Section
34-Se-82
-99.91 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
2
34-Se-82

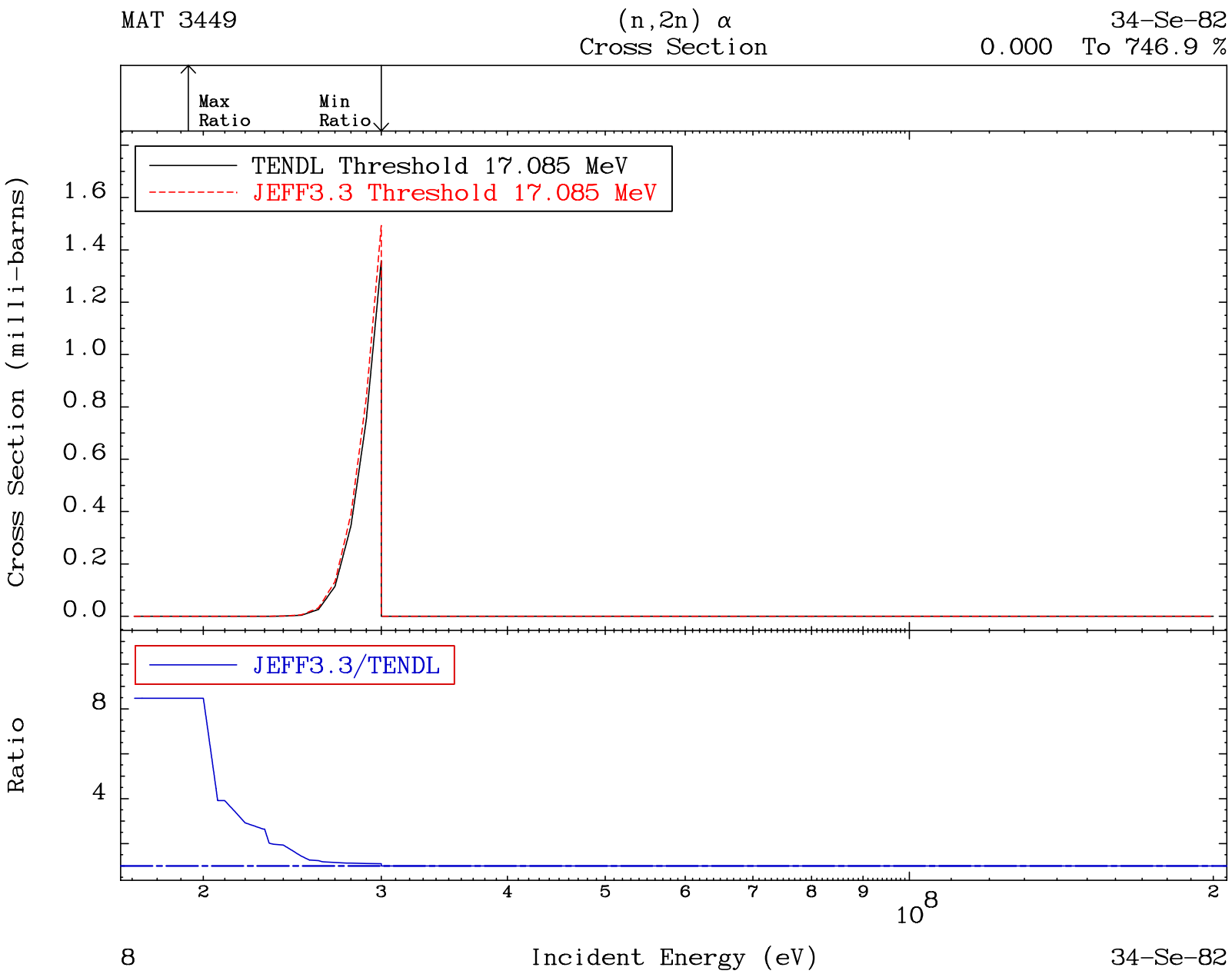

MAT 3449
Inelastic
Cross Section
34-Se-82
-0.002 To 0.029 %
Min
Ratio
Max
Ratio
TENDL Threshold 662.81 keV
JEFF3.3 Threshold 662.81 keV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
7 8
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
3
Incident Energy (eV)
34-Se-82

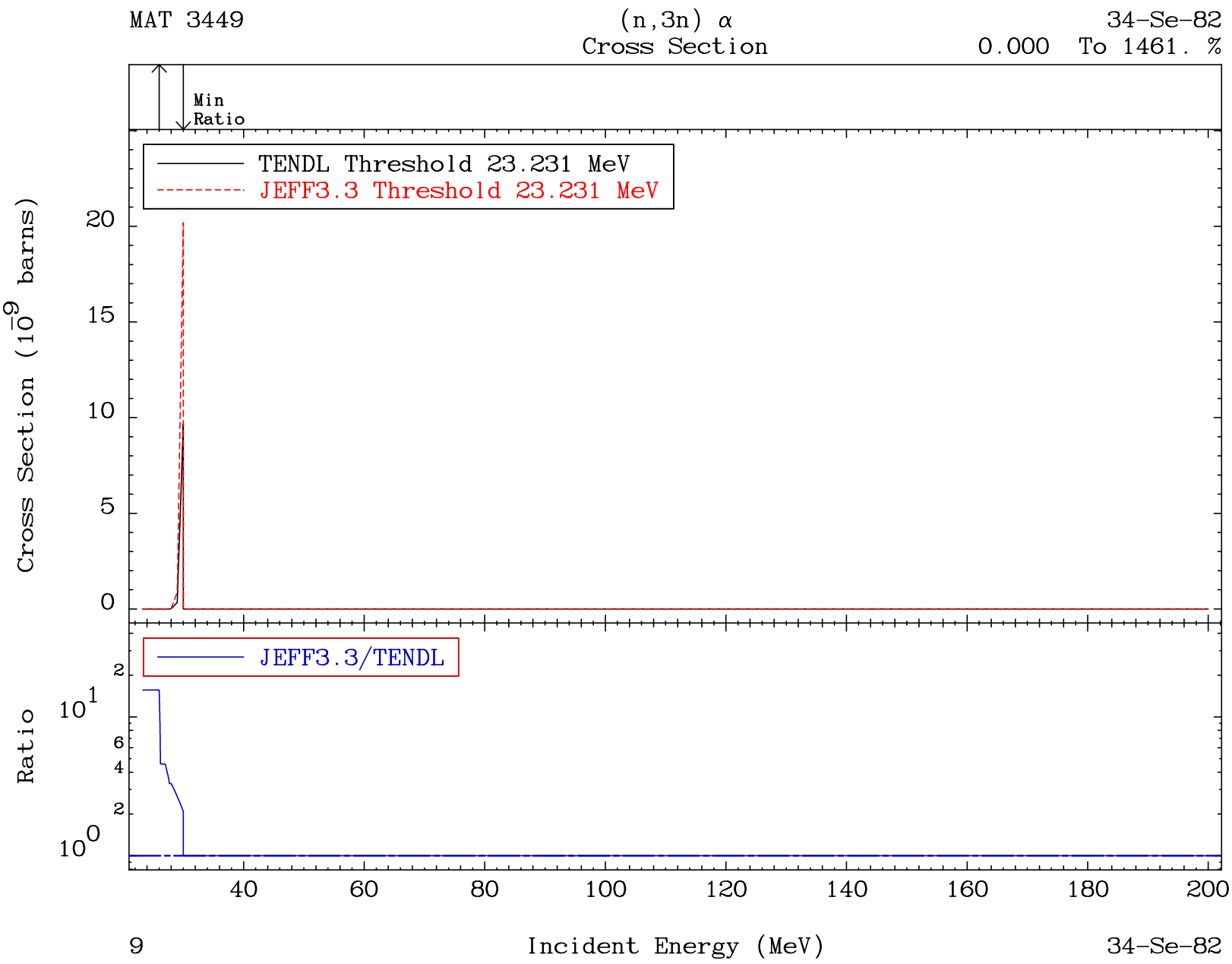

MAT 3449
(n,2n) d
Cross Section
34-Se-82
-0.215 To 0.000 %
Max
Ratio
TENDL Threshold 25.475 MeV
JEFF3.3 Threshold 25.475 MeV
Cross Section (micro-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
4
Incident Energy (MeV)
34-Se-82

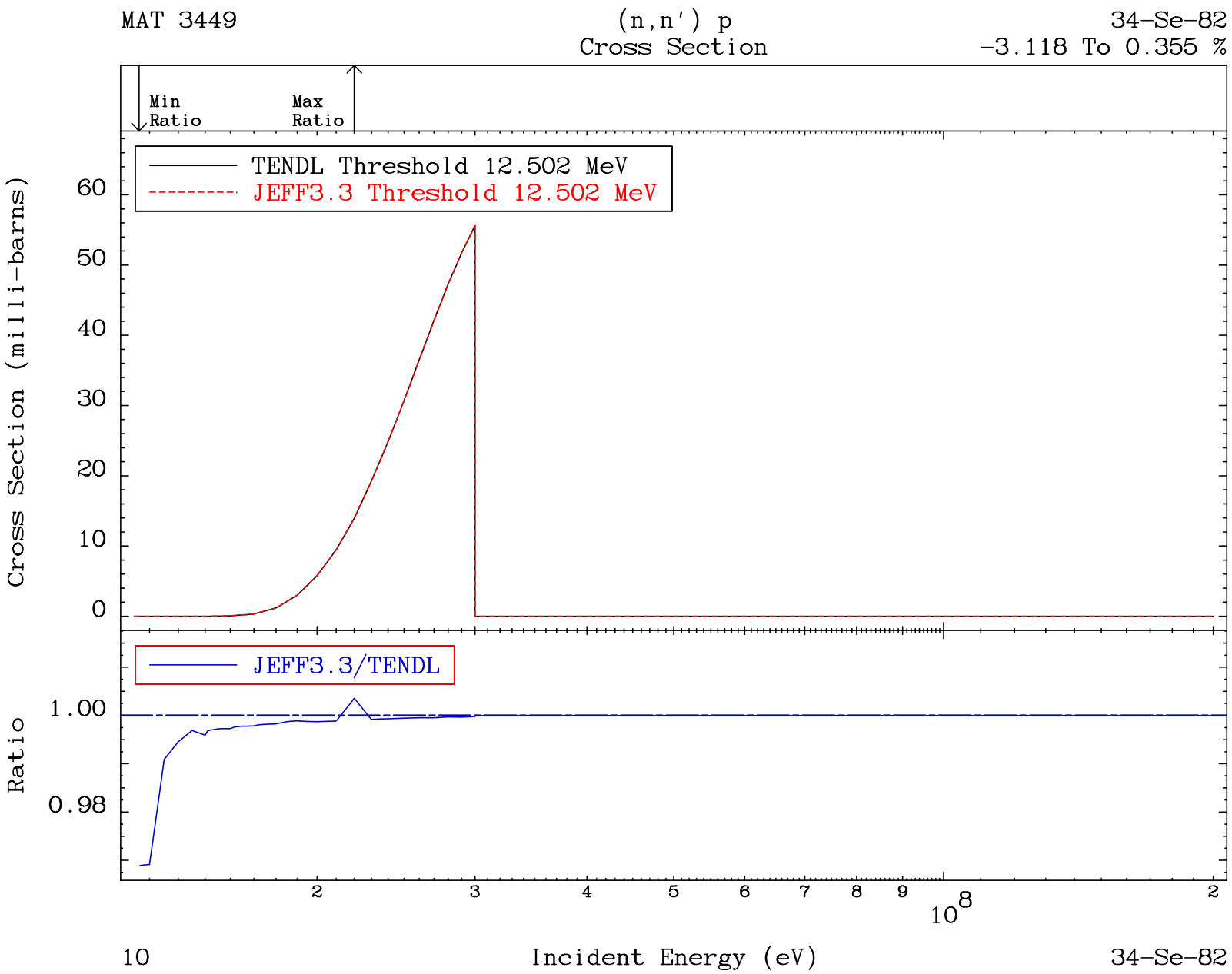

MAT 3449
(n,2n)
Cross Section
34-Se-82
-0.381 To 0.022 %
Min Ratio
Max Ratio
TENDL Threshold 9.3904 MeV
JEFF3.3 Threshold 9.3904 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
5
Incident Energy (eV)
34-Se-82

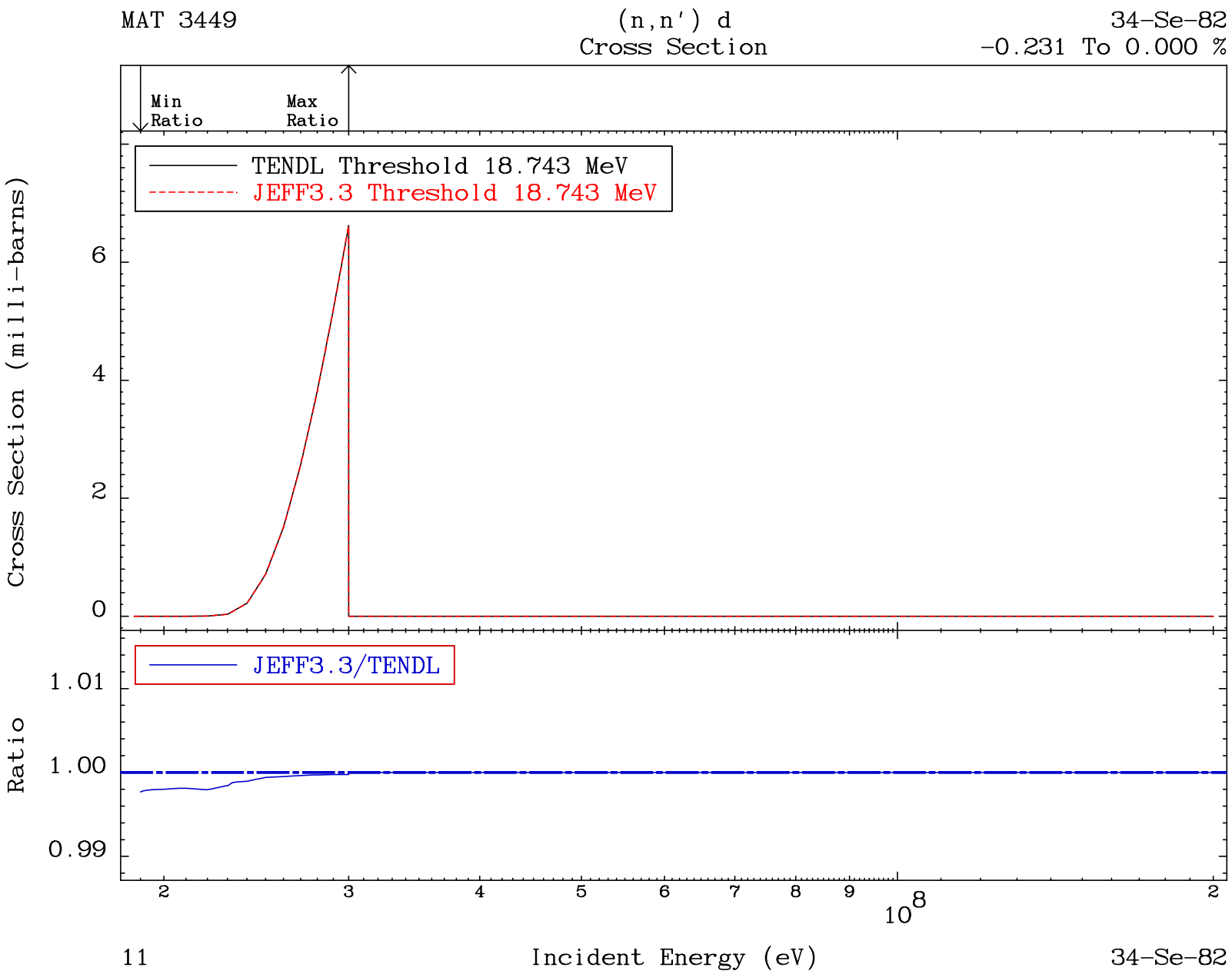

MAT 3449
(n,3n)
Cross Section
34-Se-82
-0.276 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 16.174 MeV
JEFF3.3 Threshold 16.174 MeV
Cross Section (milli-barns)
800
600
400
200
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
34-Se-82

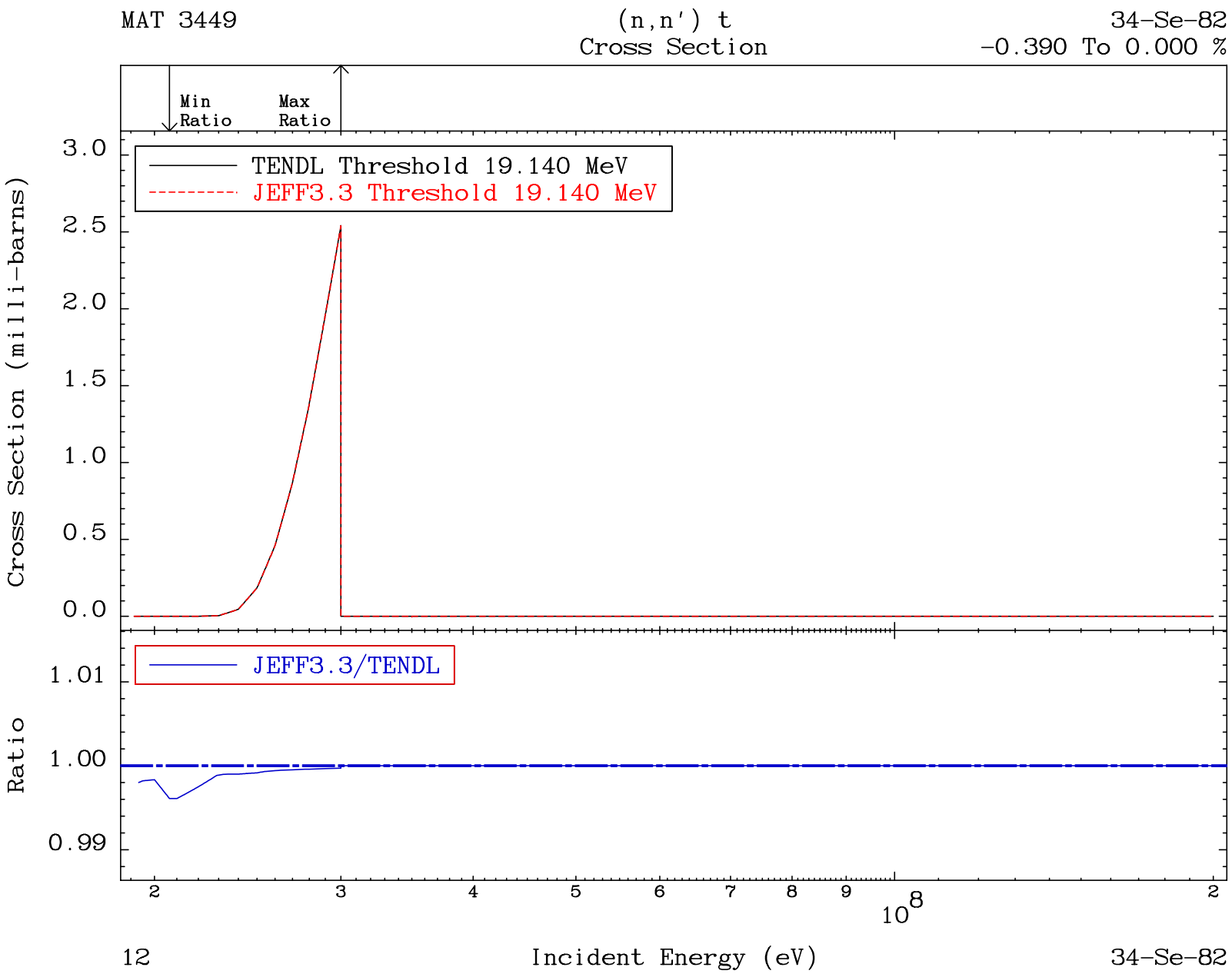

MAT 3449
(n,n') α
Cross Section
34-Se-82
-99.85 To 1064. %
Min Ratio
Max Ratio
TENDL Threshold 8.2572 MeV
JEFF3.3 Threshold 8.2572 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
34-Se-82

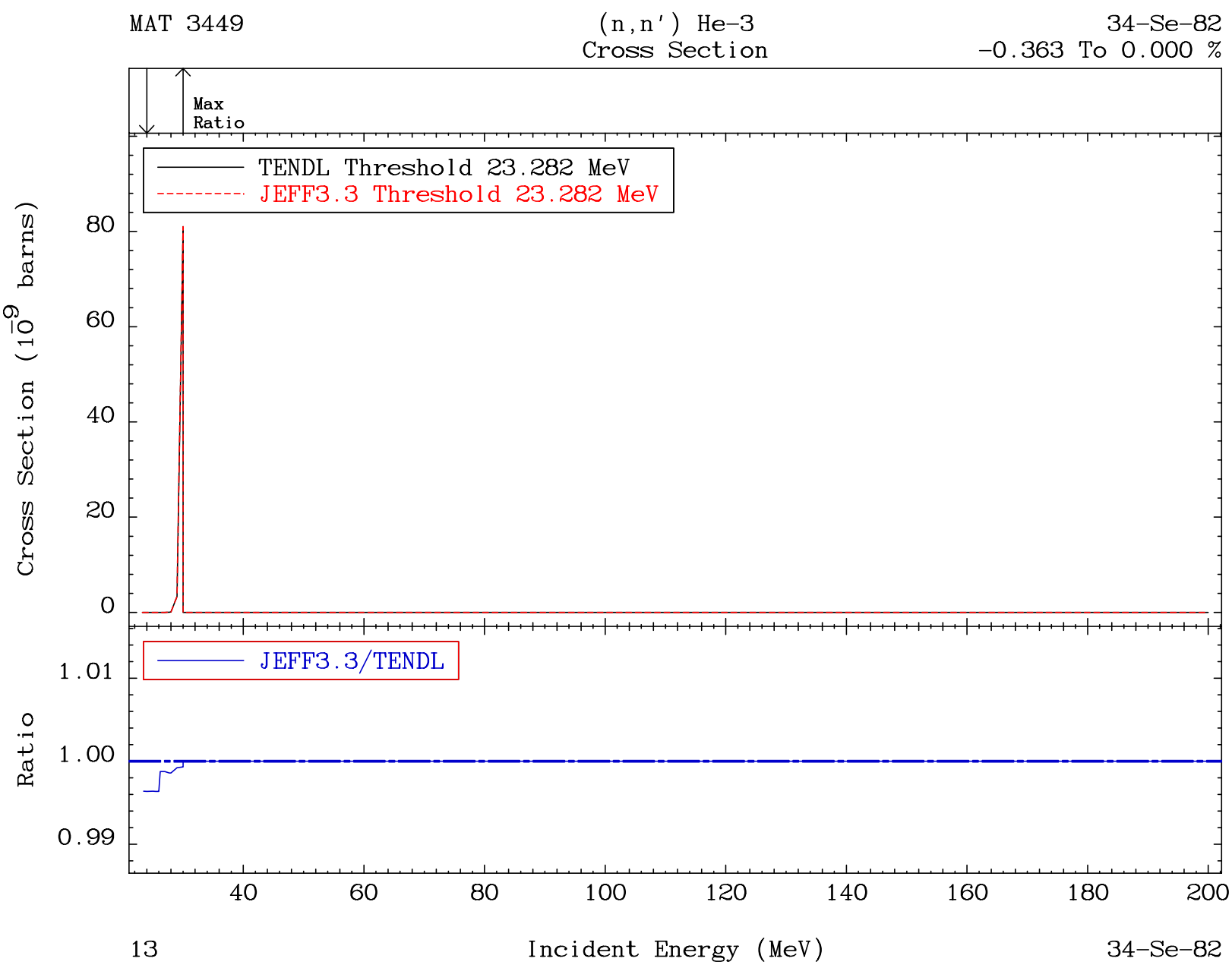

MAT 3449
(n,2n) α
Cross Section
34-Se-82
0.000 To 746.9 %
Max Ratio
Min Ratio
TENDL Threshold 17.085 MeV
JEFF3.3 Threshold 17.085 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
8
Incident Energy (eV)
34-Se-82

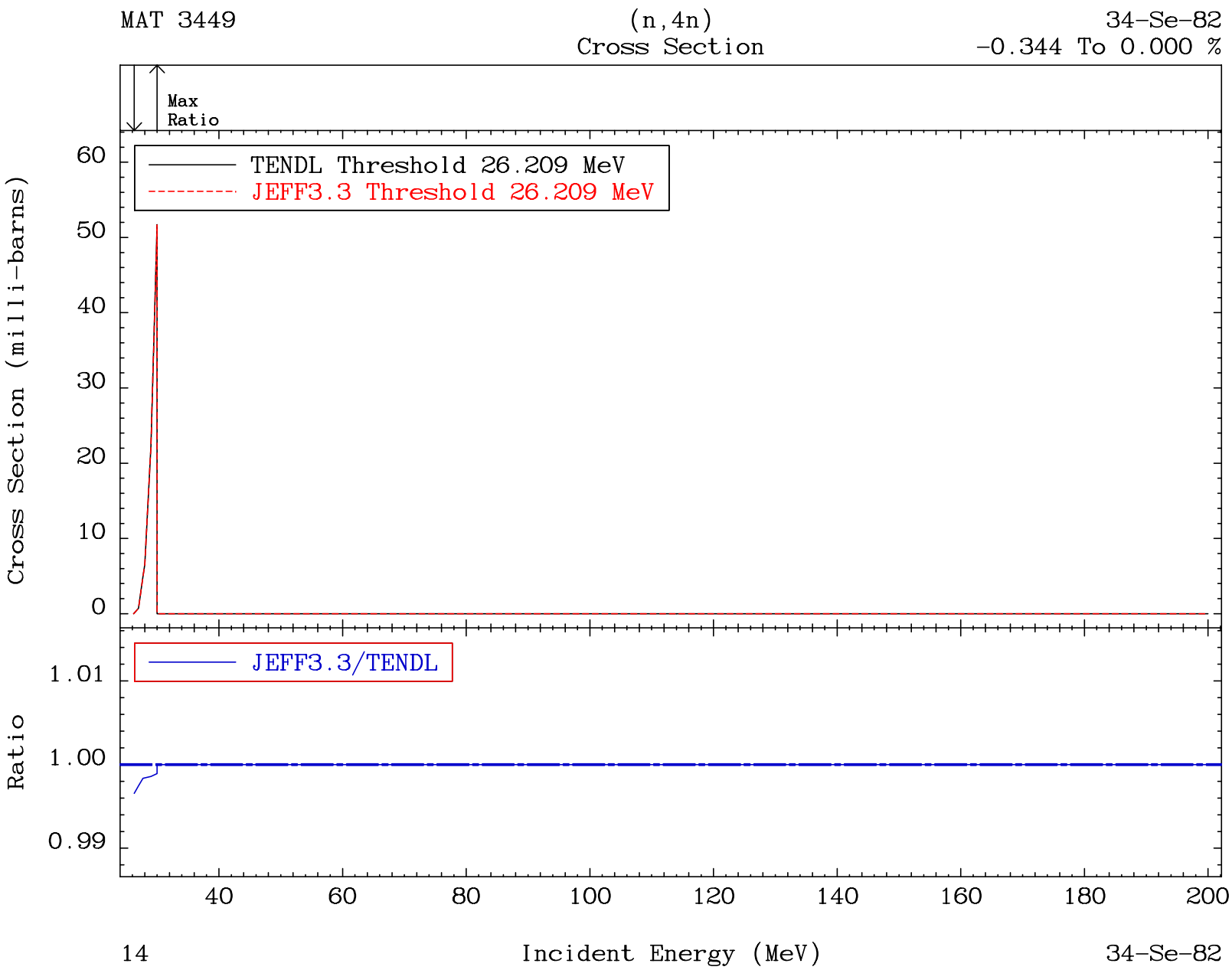

MAT 3449
(n,3n) α
Cross Section
34-Se-82
0.000 To 1461. %
Min
Ratio
TENDL Threshold 23.231 MeV
JEFF3.3 Threshold 23.231 MeV
Cross Section (10^-9 barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
2
10^1
6
4
2
10^0
40
60
80
100
120
140
160
180
200
9
Incident Energy (MeV)
34-Se-82

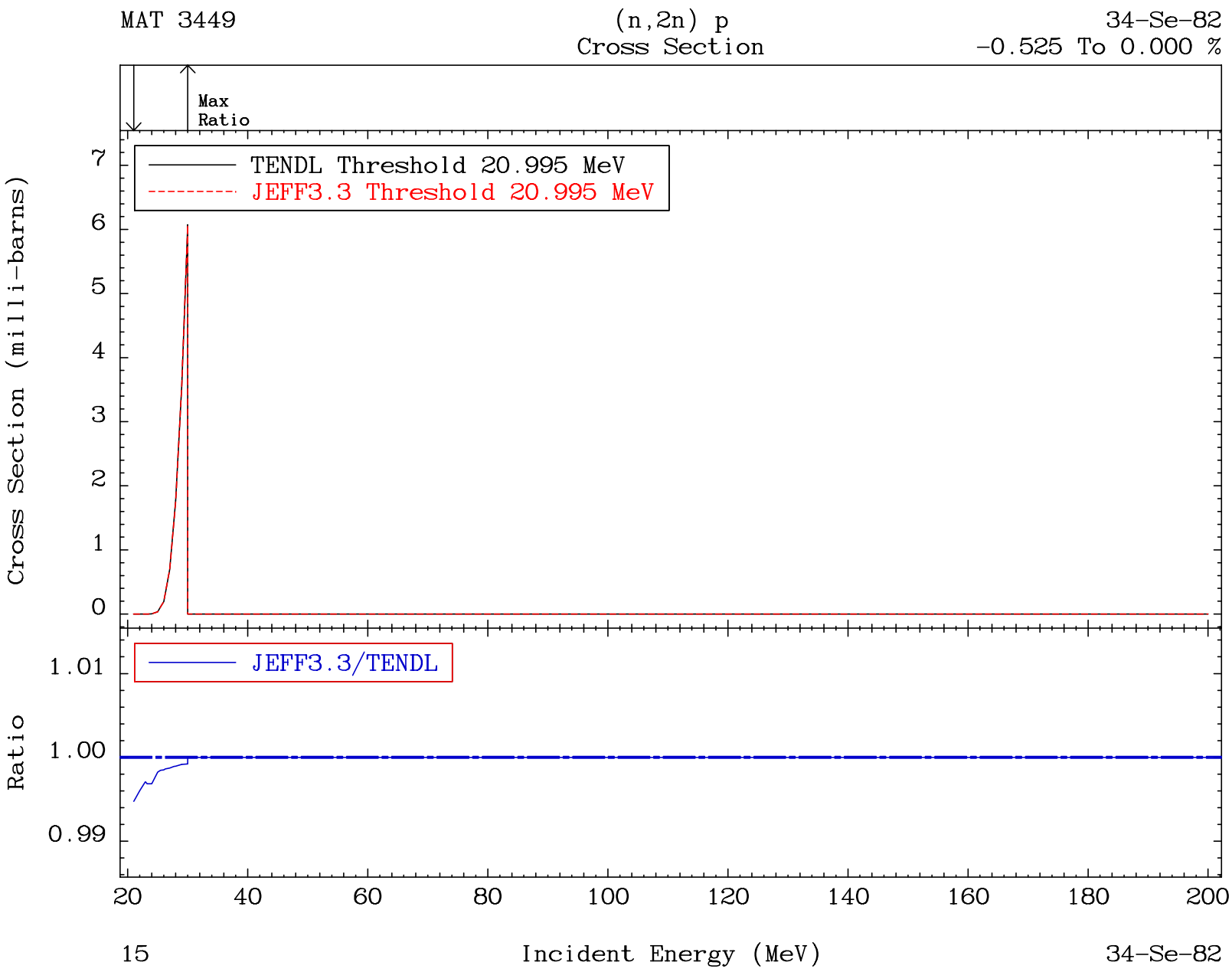

MAT 3449
(n,n') p
Cross Section
34-Se-82
-3.118 To 0.355 %
Min Ratio
Max Ratio
TENDL Threshold 12.502 MeV
JEFF3.3 Threshold 12.502 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.00
0.98
2
3
4
5
6
7
8
9
10^8
2
10
Incident Energy (eV)
34-Se-82

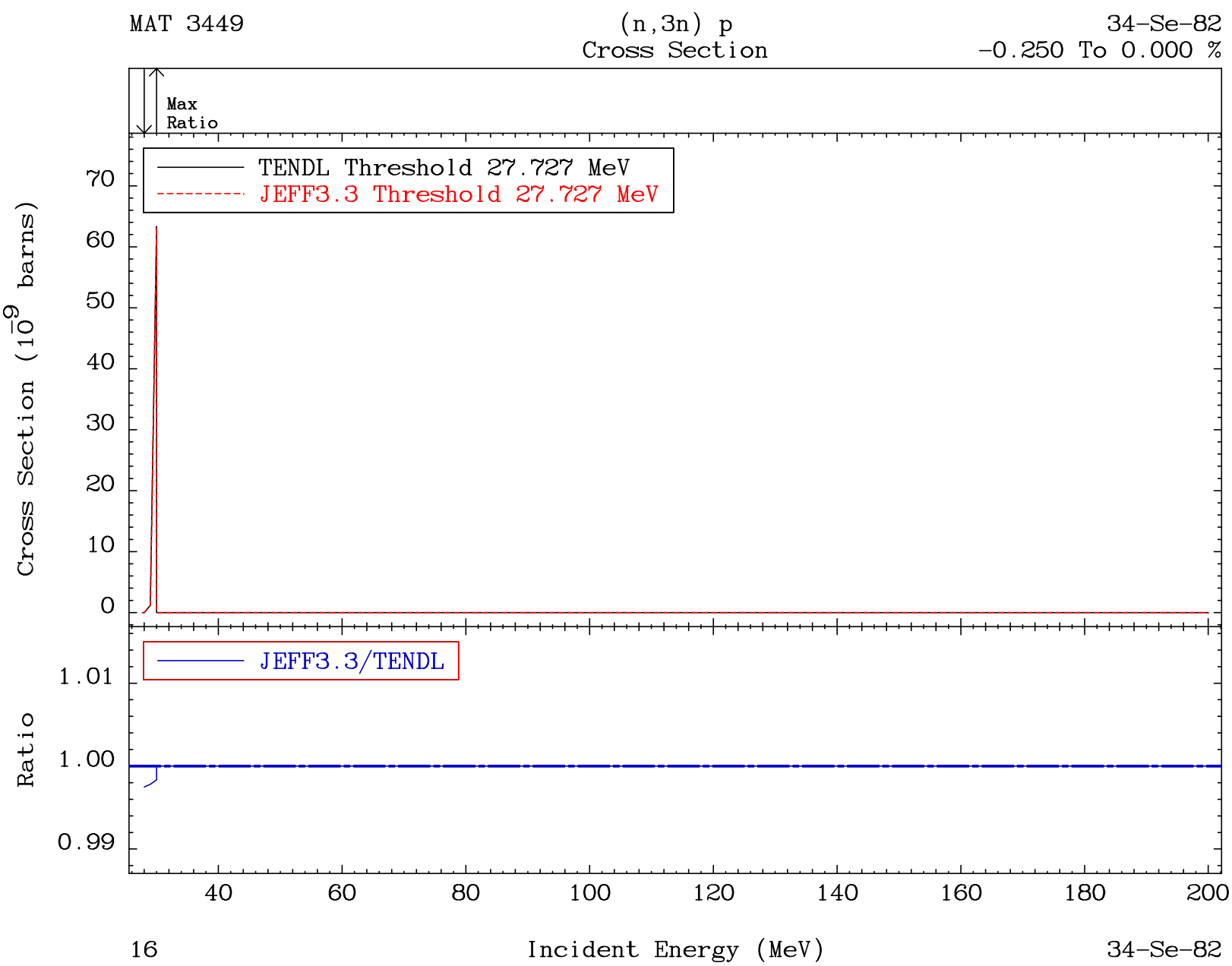

MAT 3449
(n,n') d
Cross Section
34-Se-82
-0.231 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.743 MeV
JEFF3.3 Threshold 18.743 MeV
Cross Section (milli-barns)
0
2
4
6
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
11
Incident Energy (eV)
34-Se-82

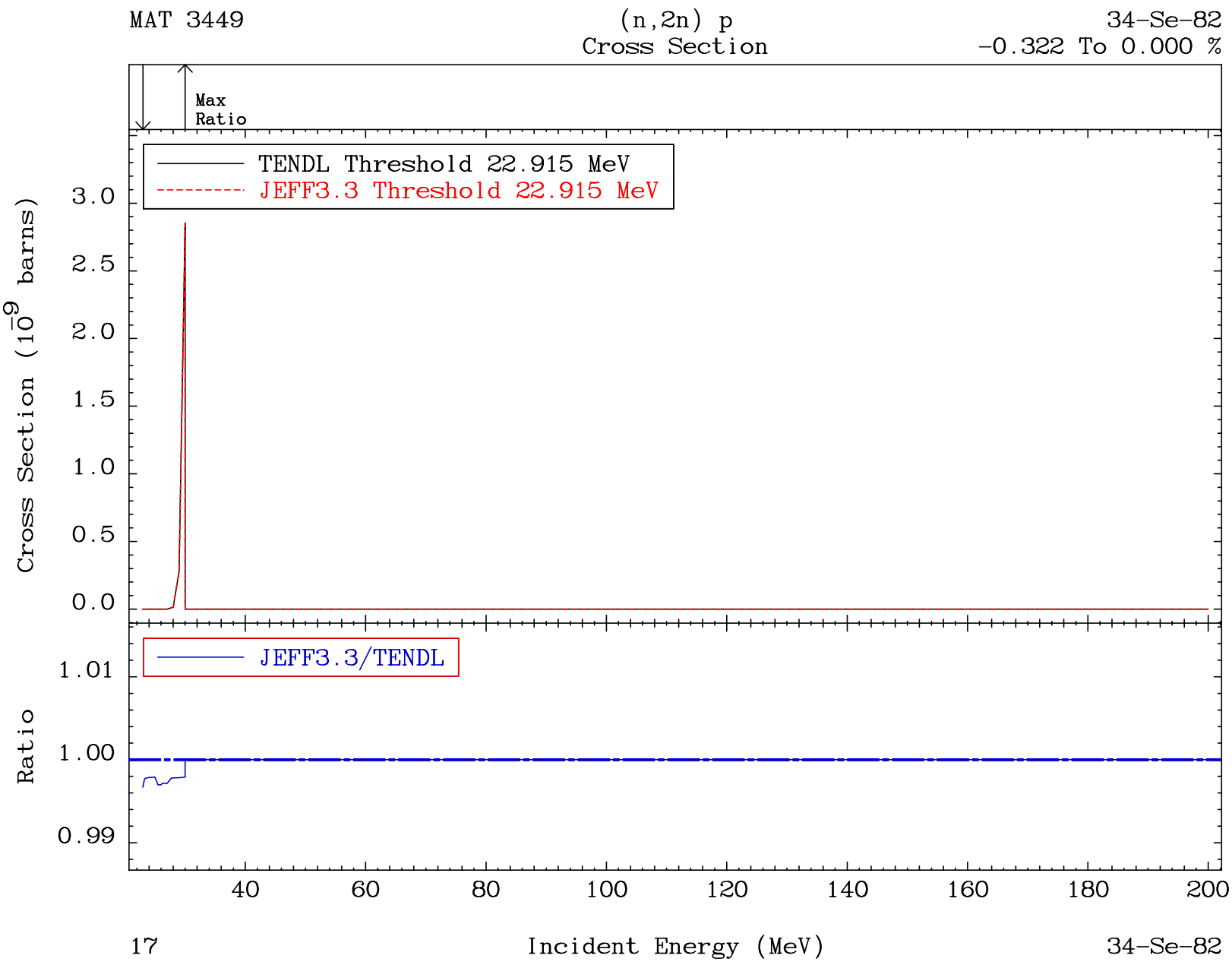

MAT 3449
(n,n') t
Cross Section
34-Se-82
-0.390 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 19.140 MeV
JEFF3.3 Threshold 19.140 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
12
Incident Energy (eV)
34-Se-82

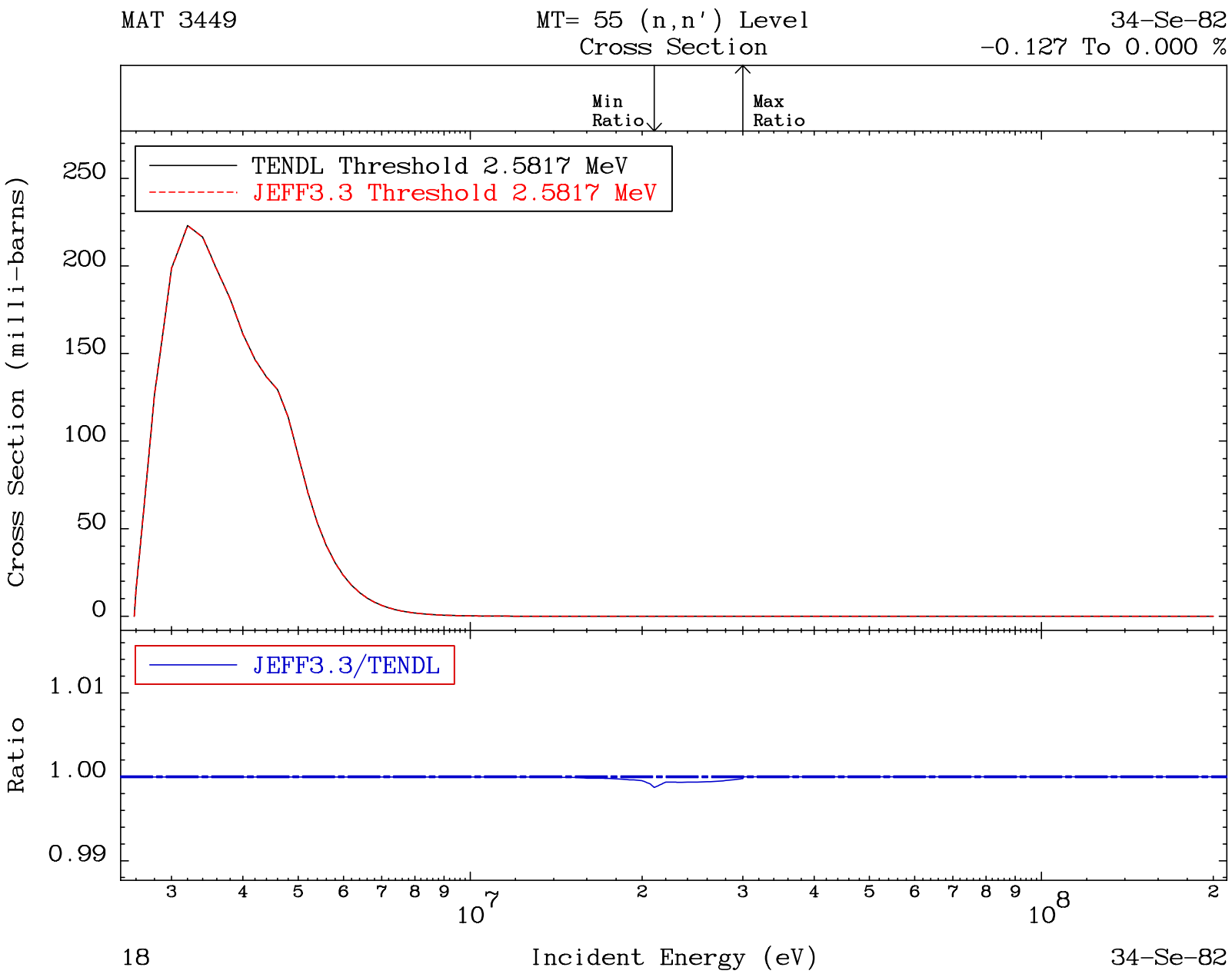

MAT 3449
(n,n') He-3
Cross Section
34-Se-82
-0.363 To 0.000 %
Max
Ratio
TENDL Threshold 23.282 MeV
JEFF3.3 Threshold 23.282 MeV
Cross Section (10^-9 barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
13
Incident Energy (MeV)
34-Se-82

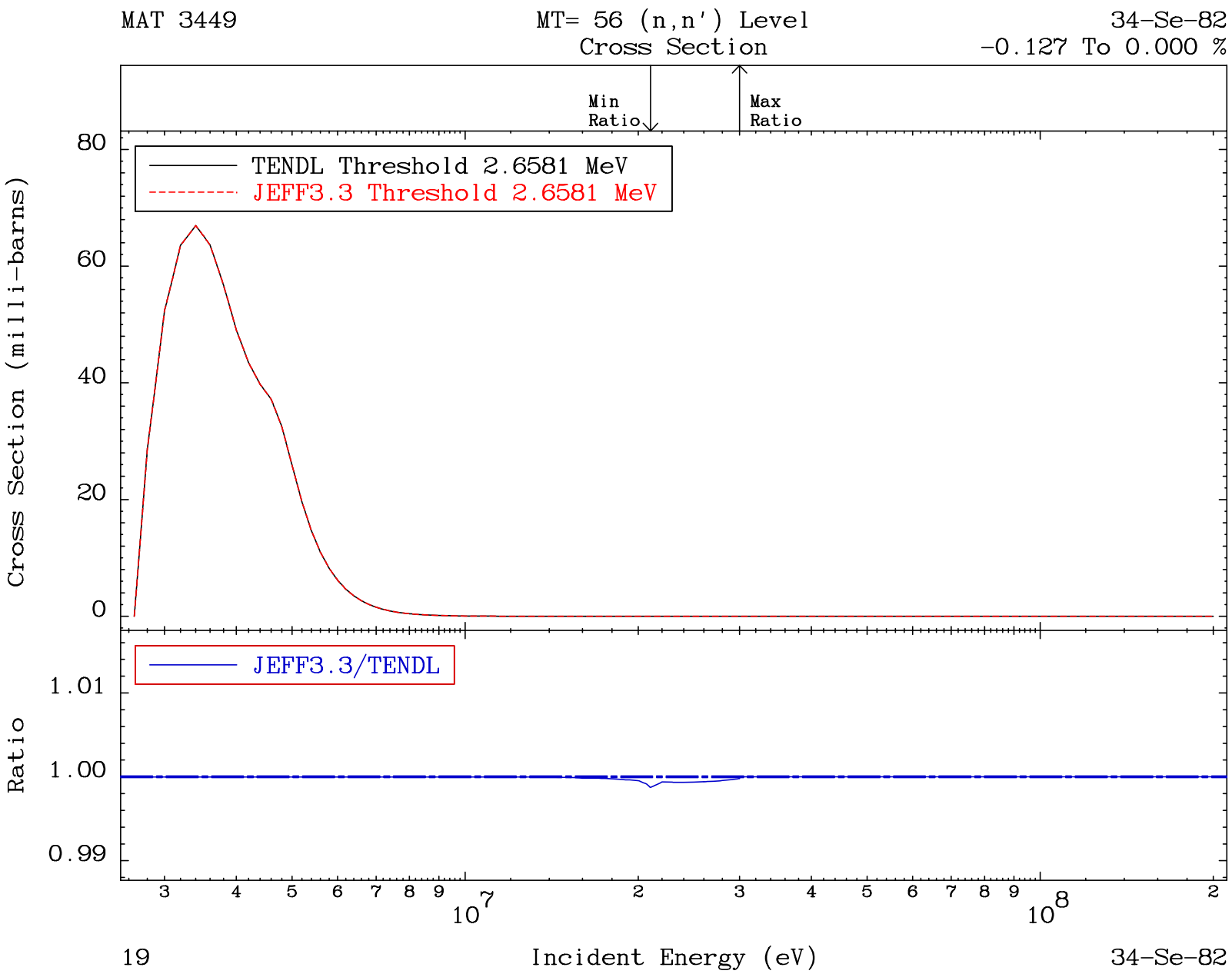

MAT 3449
(n,4n)
Cross Section
34-Se-82
-0.344 To 0.000 %
Max
Ratio
TENDL Threshold 26.209 MeV
JEFF3.3 Threshold 26.209 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
14
Incident Energy (MeV)
34-Se-82

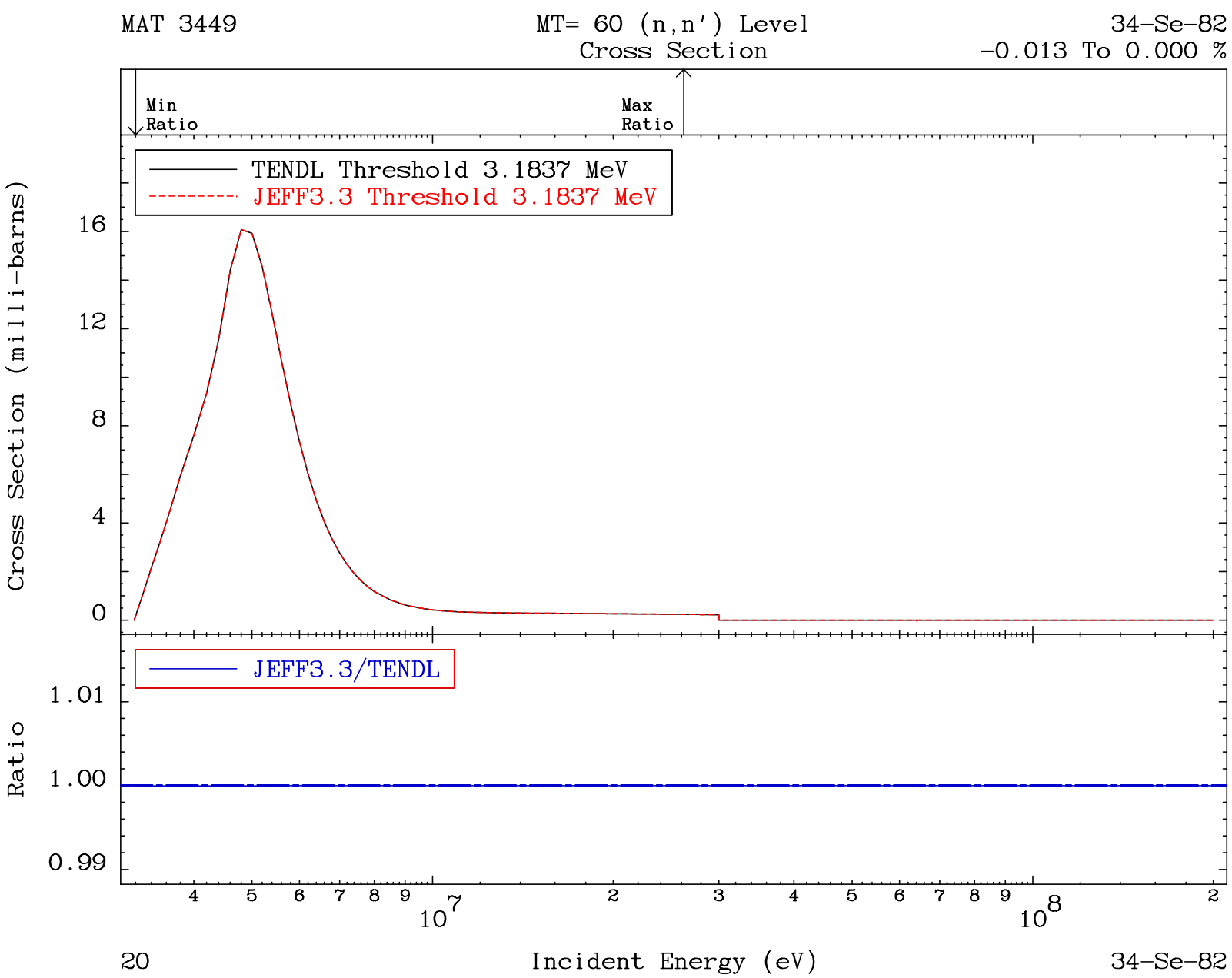

MAT 3449
(n,2n) p
Cross Section
34-Se-82
-0.525 To 0.000 %
Max
Ratio
TENDL Threshold 20.995 MeV
JEFF3.3 Threshold 20.995 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
15
Incident Energy (MeV)
34-Se-82

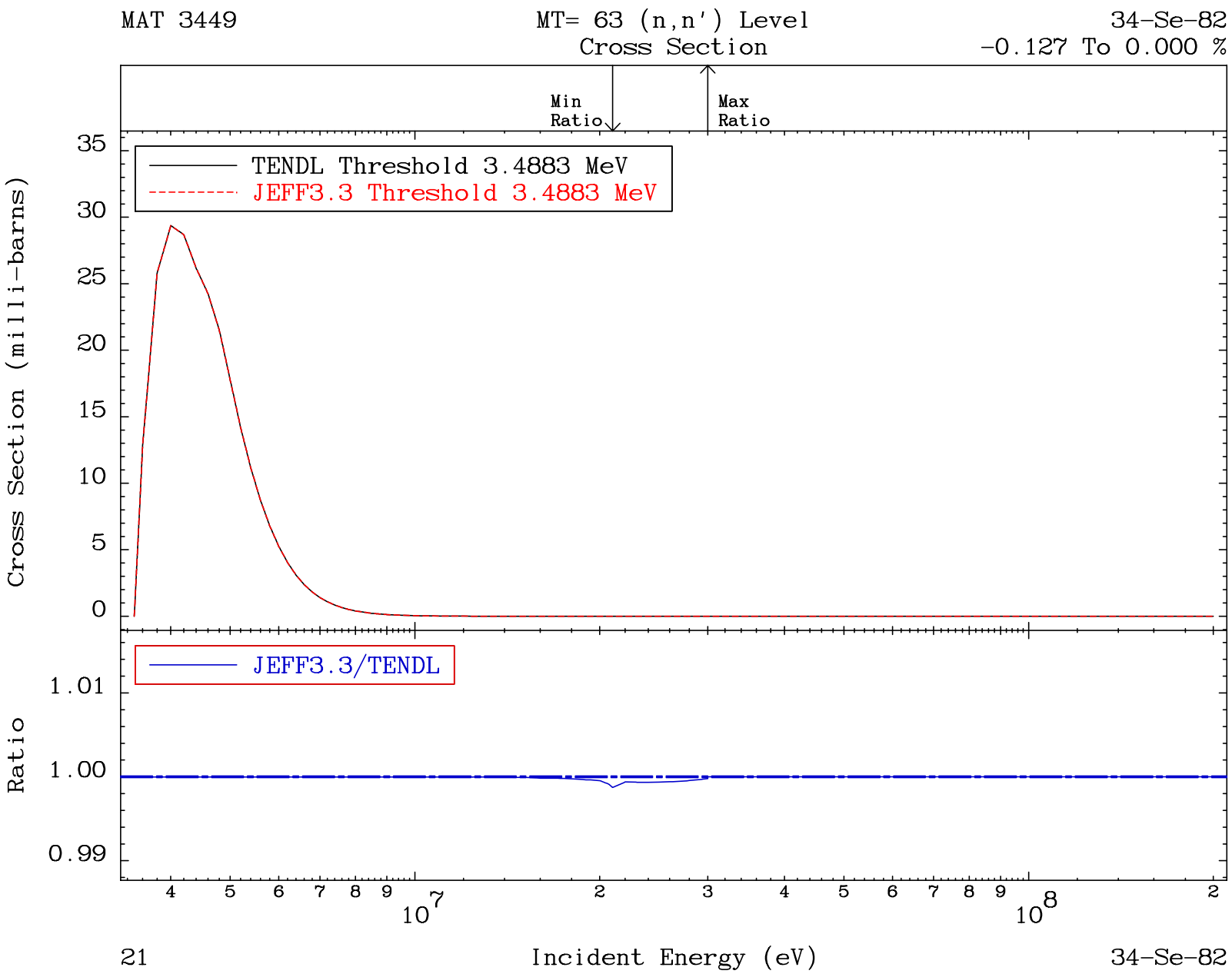

MAT 3449
(n,3n) p
Cross Section
34-Se-82
-0.250 To 0.000 %
Max
Ratio
TENDL Threshold 27.727 MeV
JEFF3.3 Threshold 27.727 MeV
Cross Section (10^-9 barns)
70
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
16
Incident Energy (MeV)
34-Se-82

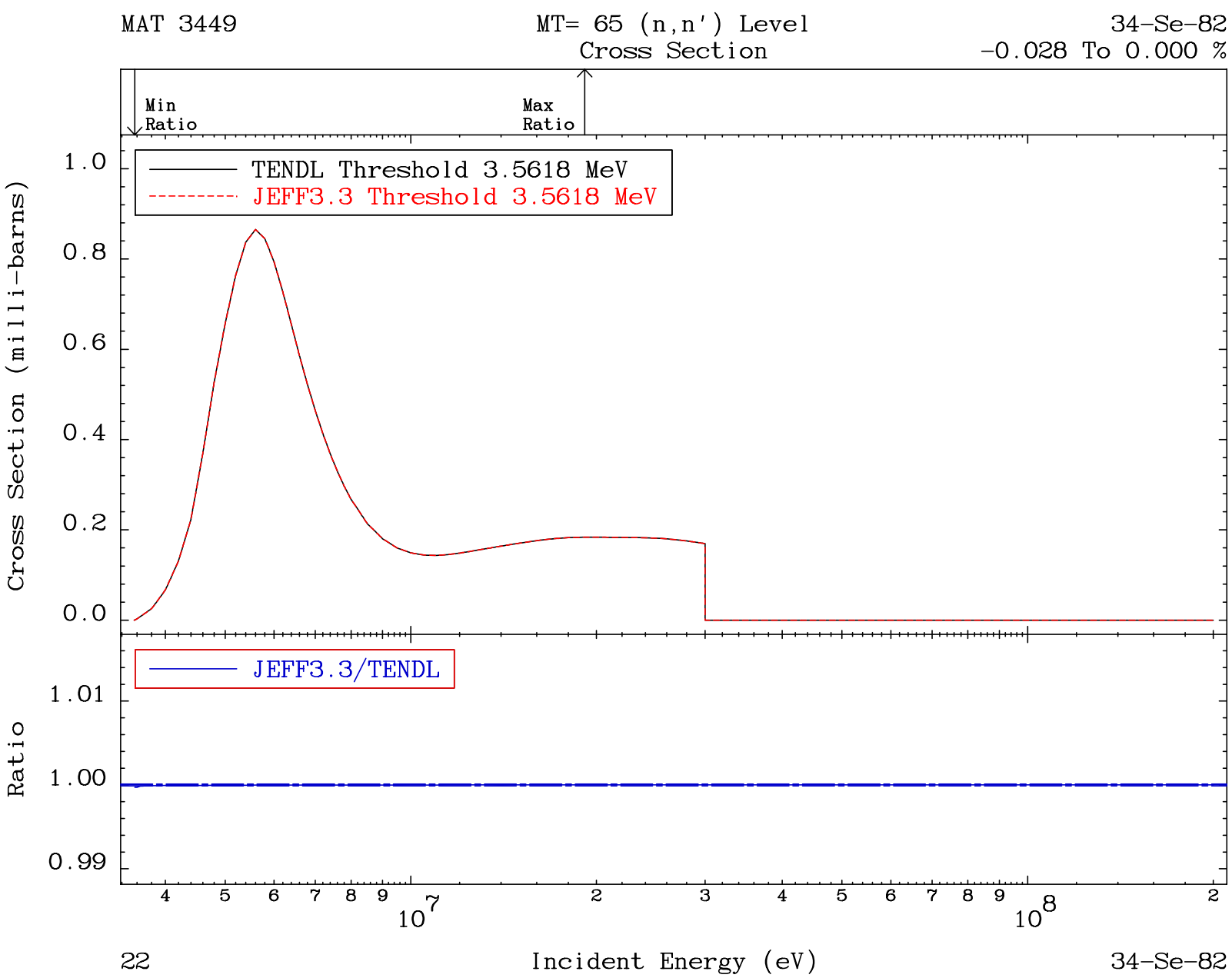

MAT 3449
(n,2n) p
Cross Section
34-Se-82
-0.322 To 0.000 %
Max
Ratio
TENDL Threshold 22.915 MeV
JEFF3.3 Threshold 22.915 MeV
Cross Section (10^-9 barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
17
Incident Energy (MeV)
34-Se-82

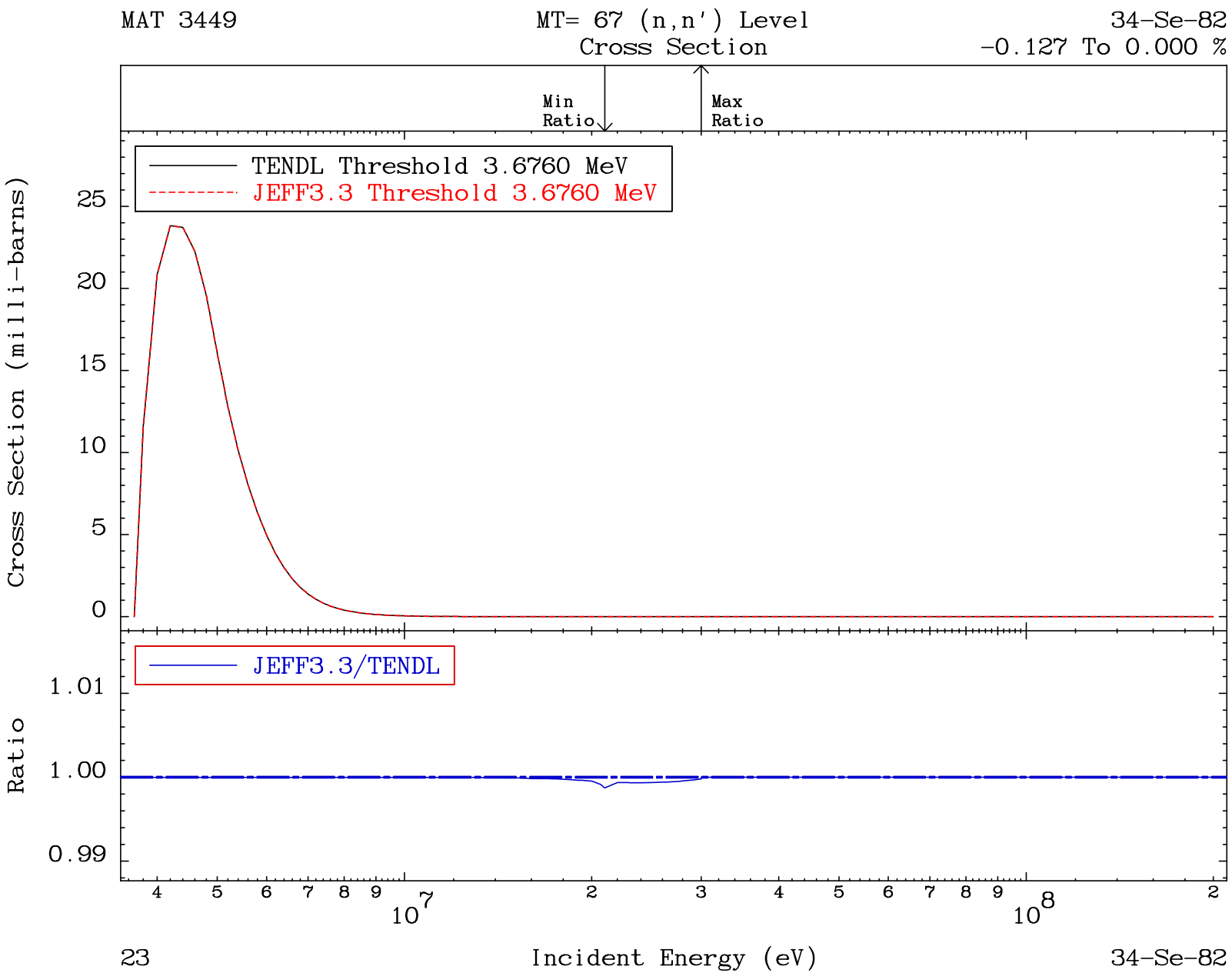

MAT 3449
MT= 55 (n,n') Level
Cross Section
34-Se-82
-0.127 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.5817 MeV
JEFF3.3 Threshold 2.5817 MeV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
18
Incident Energy (eV)
34-Se-82

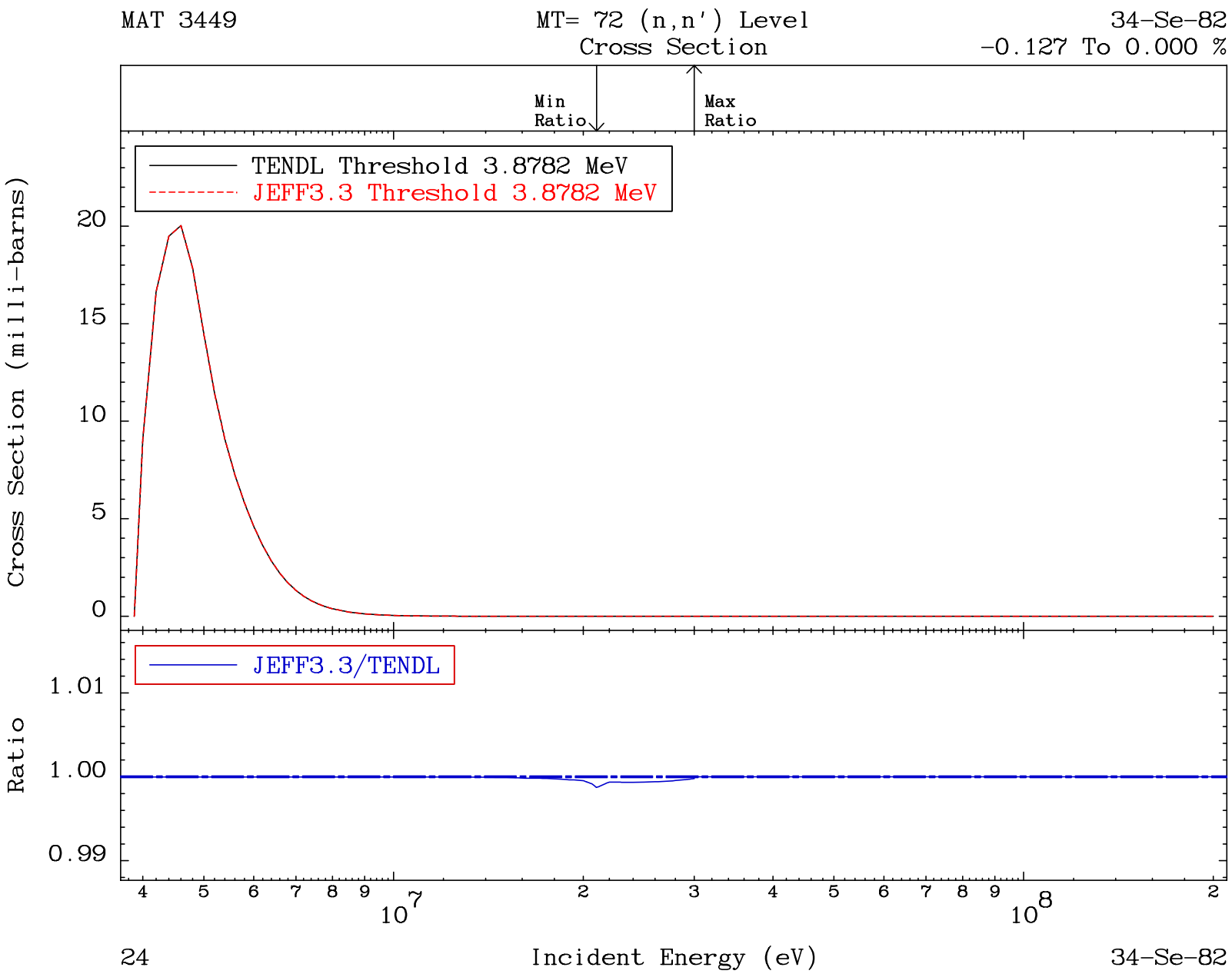

MAT 3449
MT= 56 (n,n') Level
Cross Section
34-Se-82
-0.127 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 2.6581 MeV
JEFF3.3 Threshold 2.6581 MeV
Cross Section (milli-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
19
Incident Energy (eV)
34-Se-82

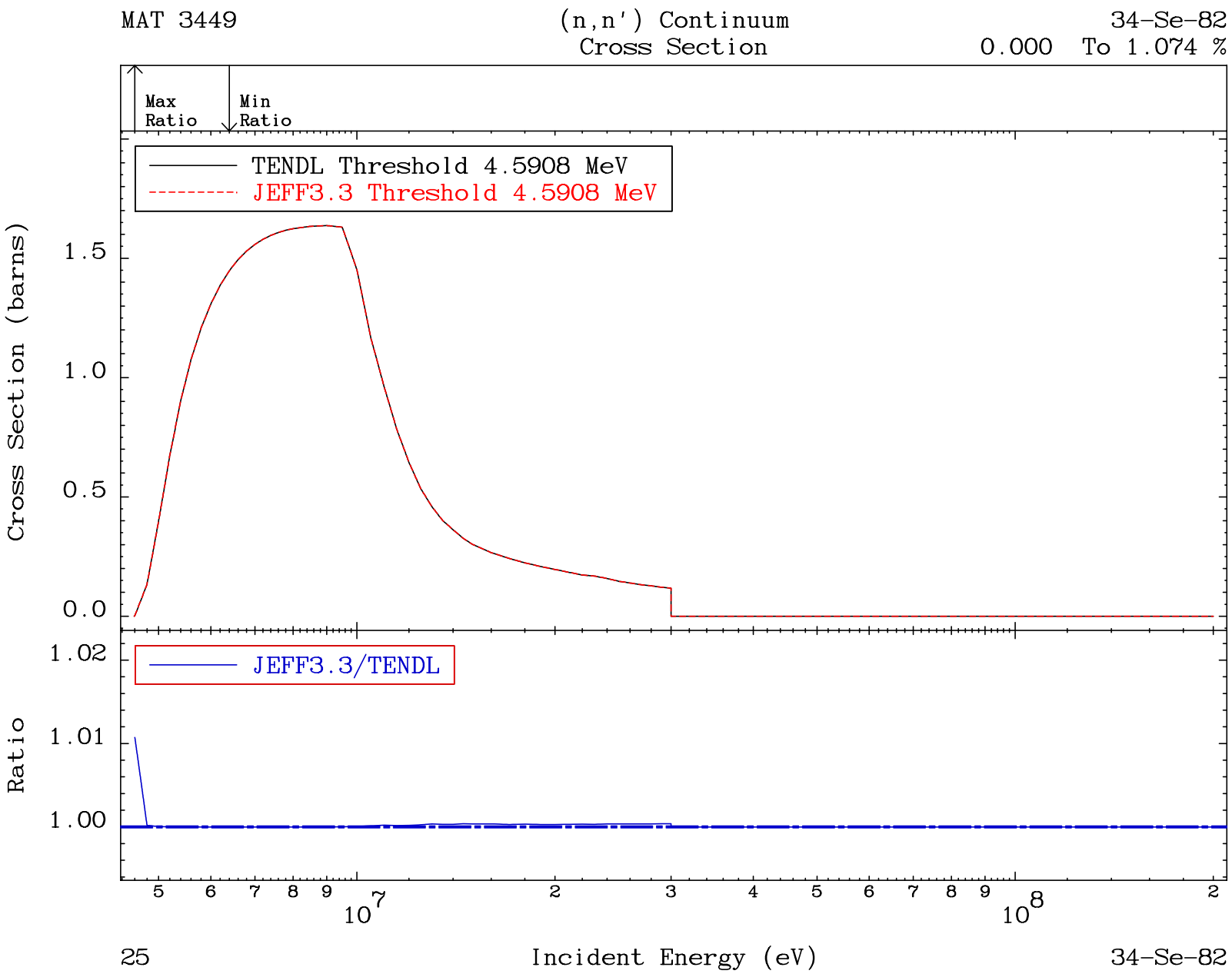

MAT 3449
MT= 60 (n,n') Level
Cross Section
34-Se-82
-0.013 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.1837 MeV
JEFF3.3 Threshold 3.1837 MeV
Cross Section (milli-barns)
16
12
8
4
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
20
Incident Energy (eV)
34-Se-82

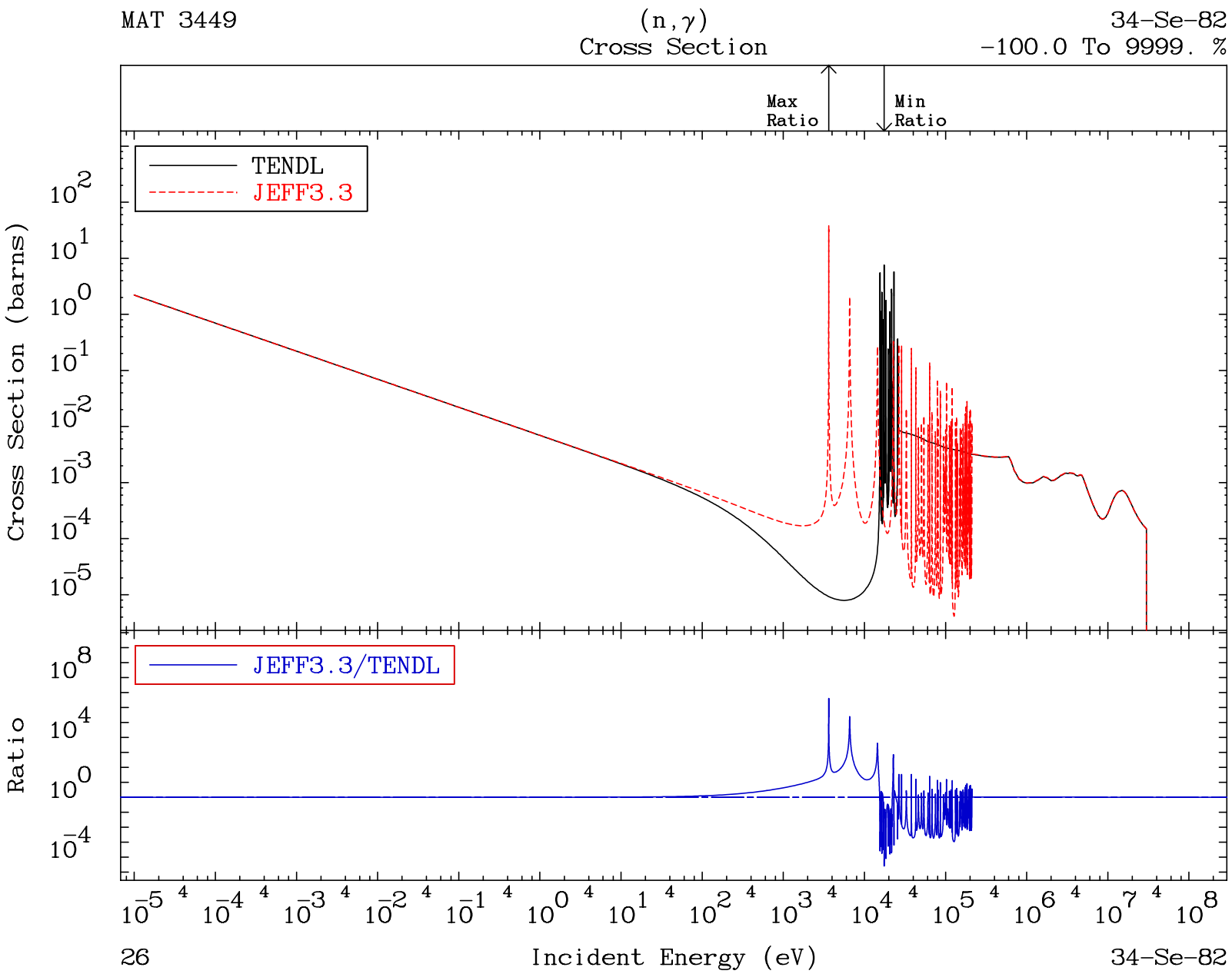

MAT 3449
MT= 63 (n,n') Level
Cross Section
34-Se-82
-0.127 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.4883 MeV
JEFF3.3 Threshold 3.4883 MeV
Cross Section (milli-barns)
35
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
21
Incident Energy (eV)
34-Se-82

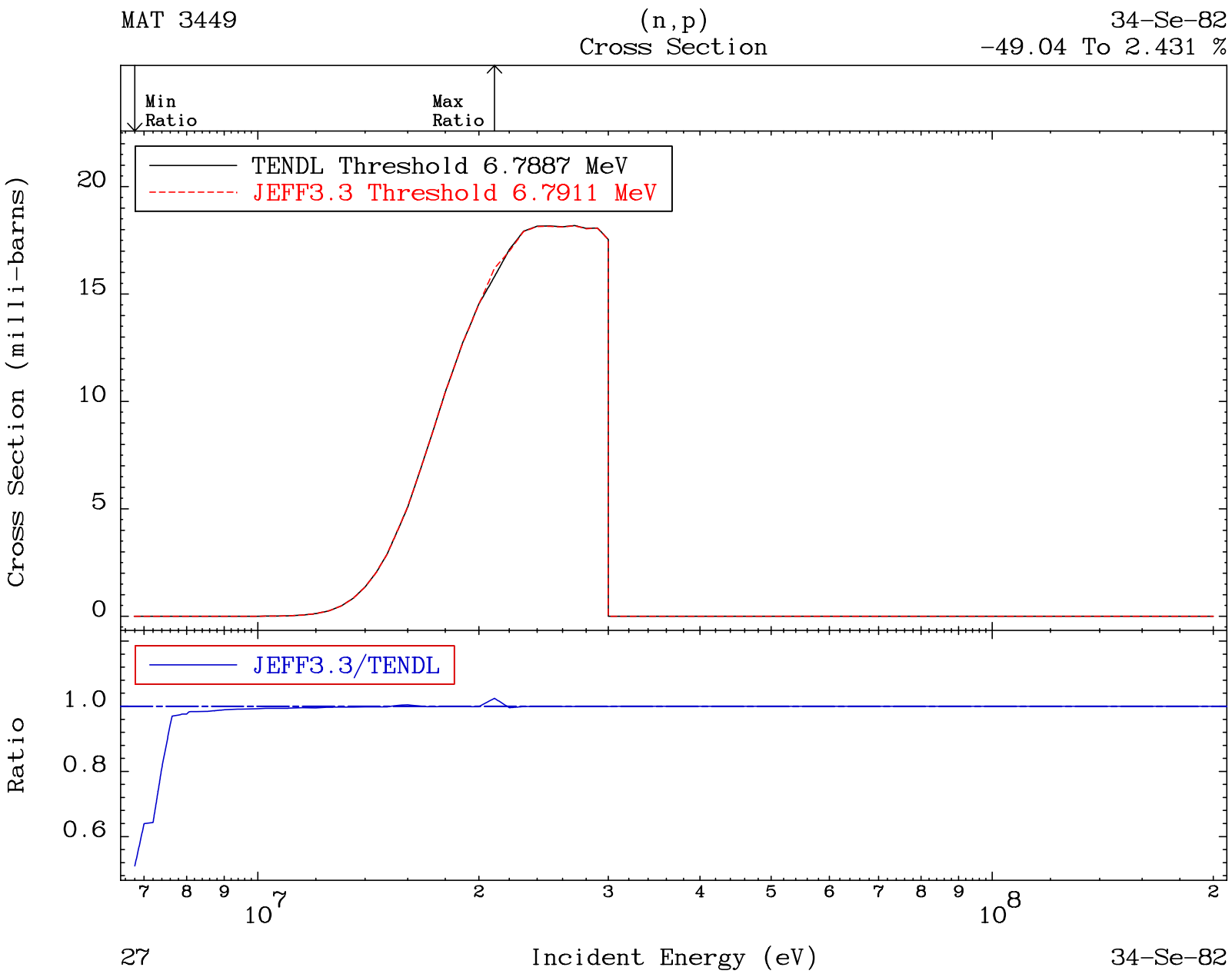

MAT 3449
MT= 65 (n,n') Level
Cross Section
34-Se-82
-0.028 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.5618 MeV
JEFF3.3 Threshold 3.5618 MeV
Cross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
22
Incident Energy (eV)
34-Se-82

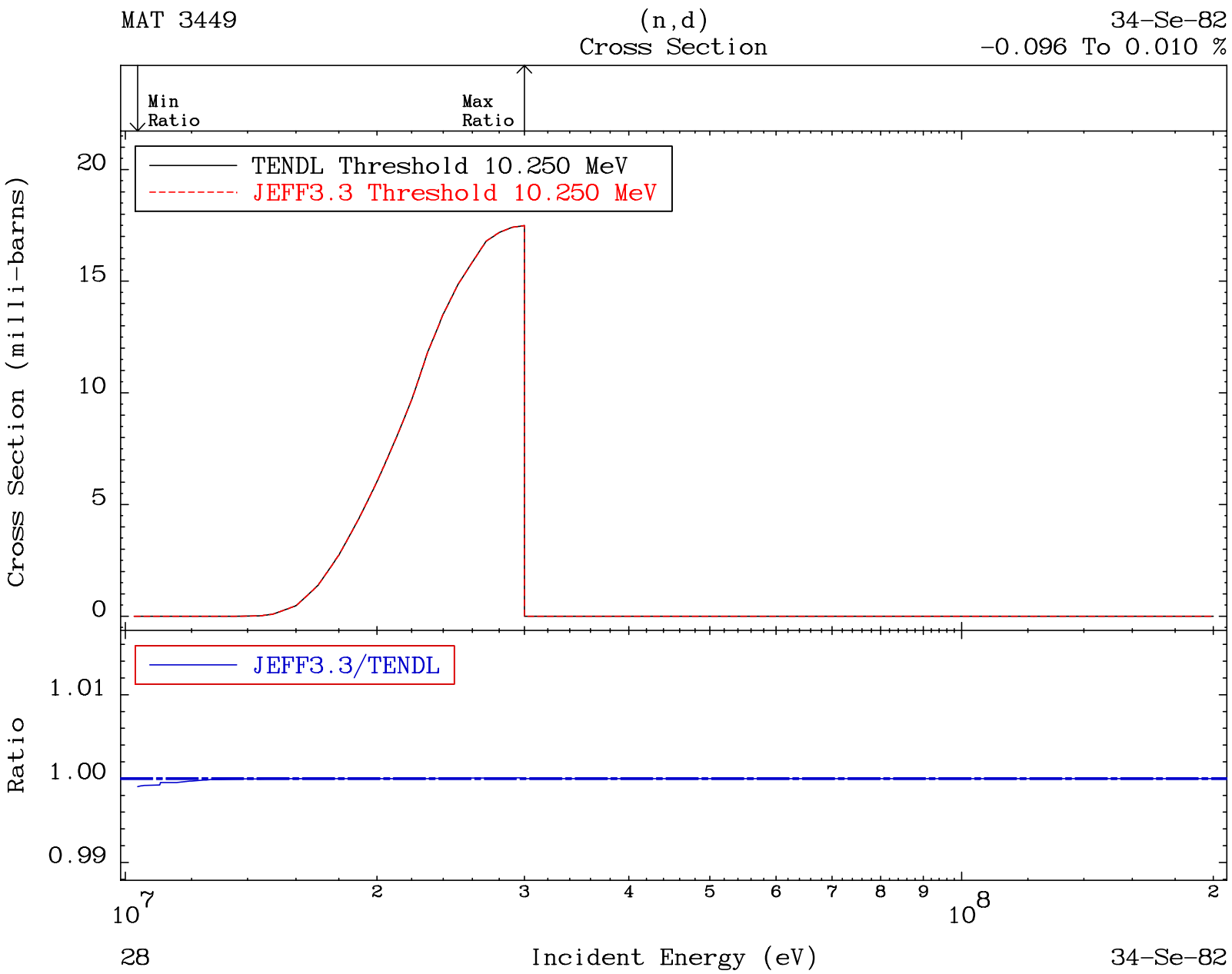

MAT 3449
MT= 67 (n,n') Level
Cross Section
34-Se-82
-0.127 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 3.6760 MeV
JEFF3.3 Threshold 3.6760 MeV
Cross Section (milli-barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
23
Incident Energy (eV)
34-Se-82

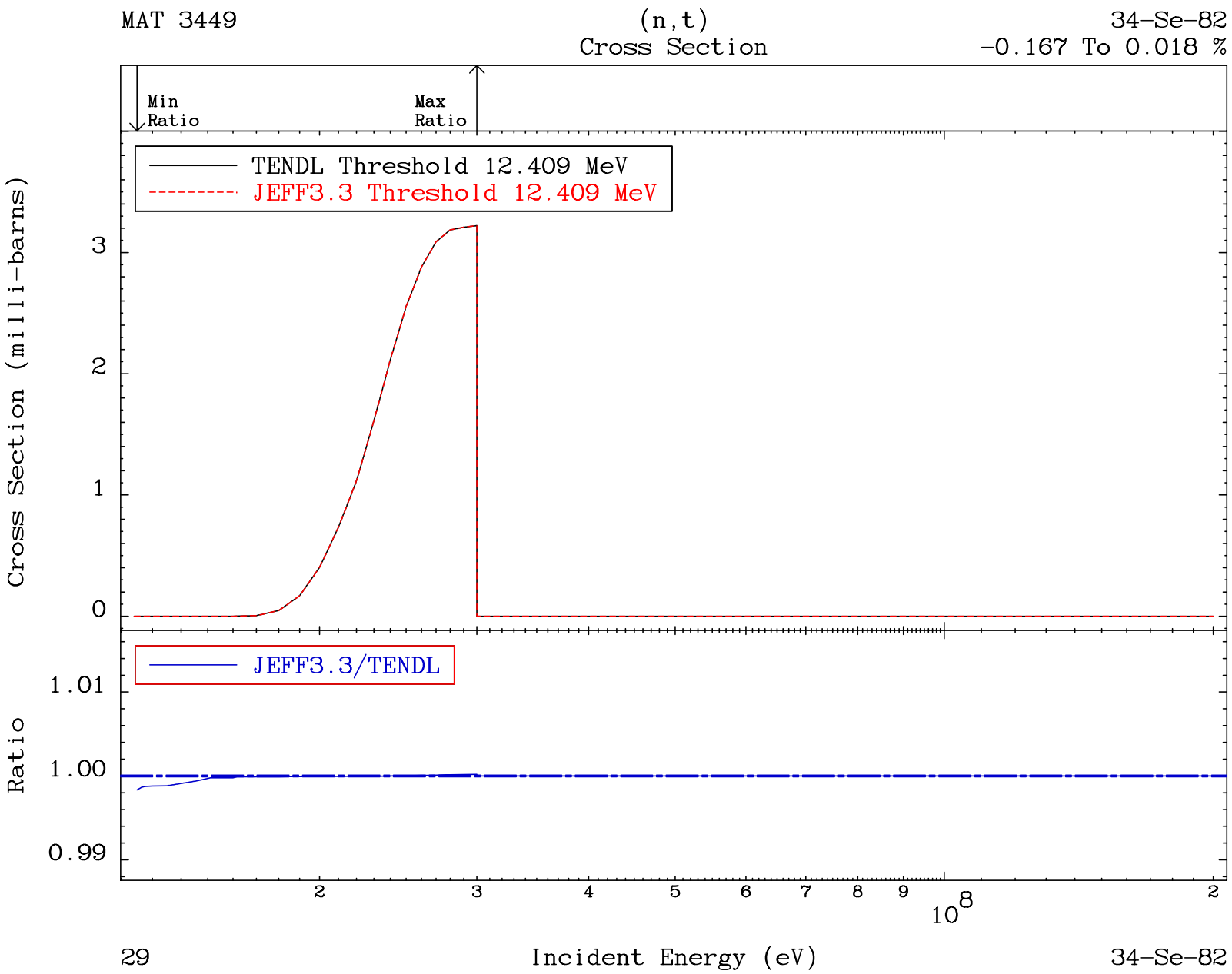

MAT 3449
MT= 72 (n,n') Level
Cross Section
34-Se-82
-0.127 To 0.000 %
Min
Ratio
Max
Ratio
TENDL Threshold 3.8782 MeV
JEFF3.3 Threshold 3.8782 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
24
Incident Energy (eV)
34-Se-82

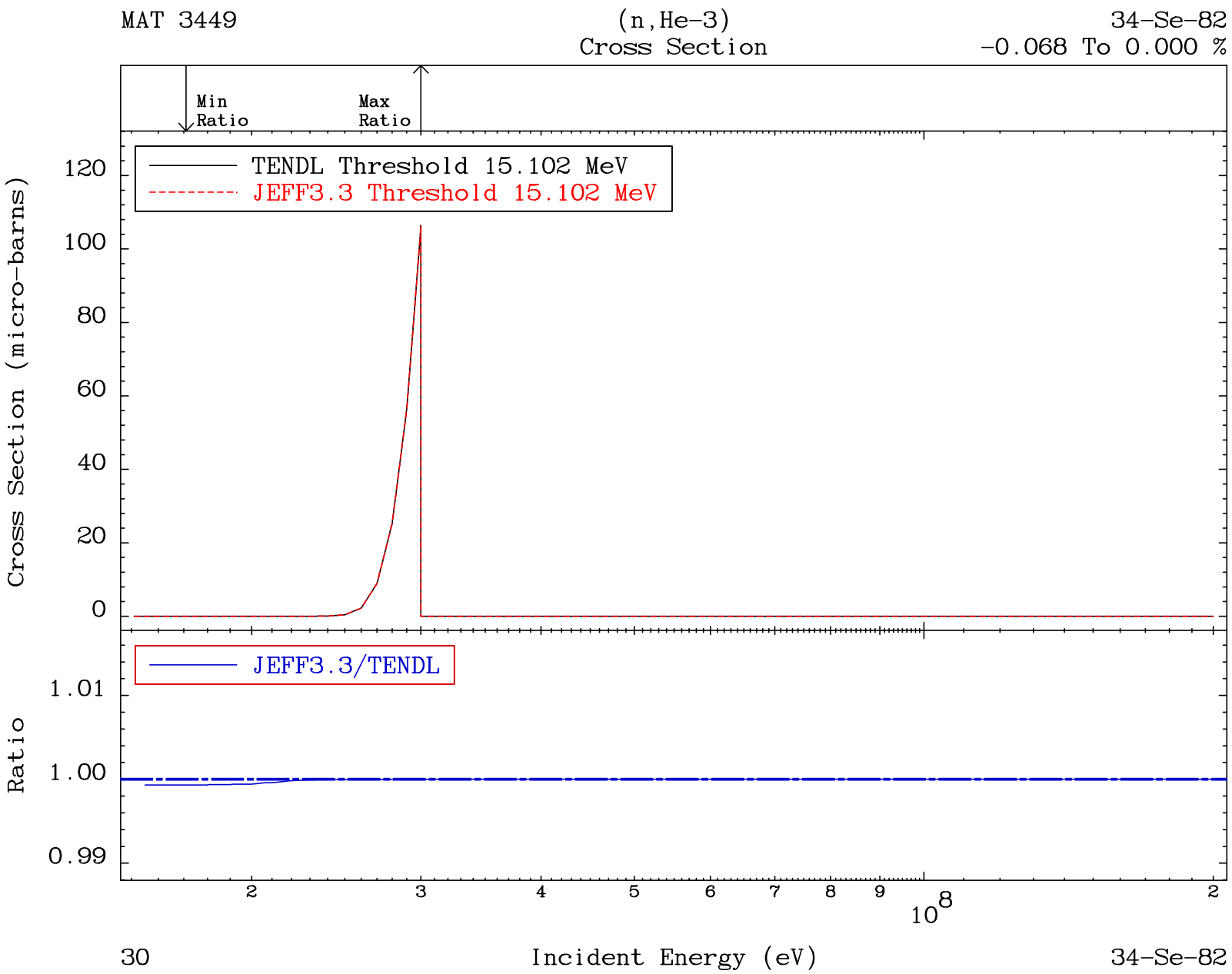

MAT 3449
(n,n') Continuum
Cross Section
34-Se-82
0.000 To 1.074 %
Max Ratio
Min Ratio
TENDL Threshold 4.5908 MeV
JEFF3.3 Threshold 4.5908 MeV
Cross Section (barns)
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
25
Incident Energy (eV)
34-Se-82

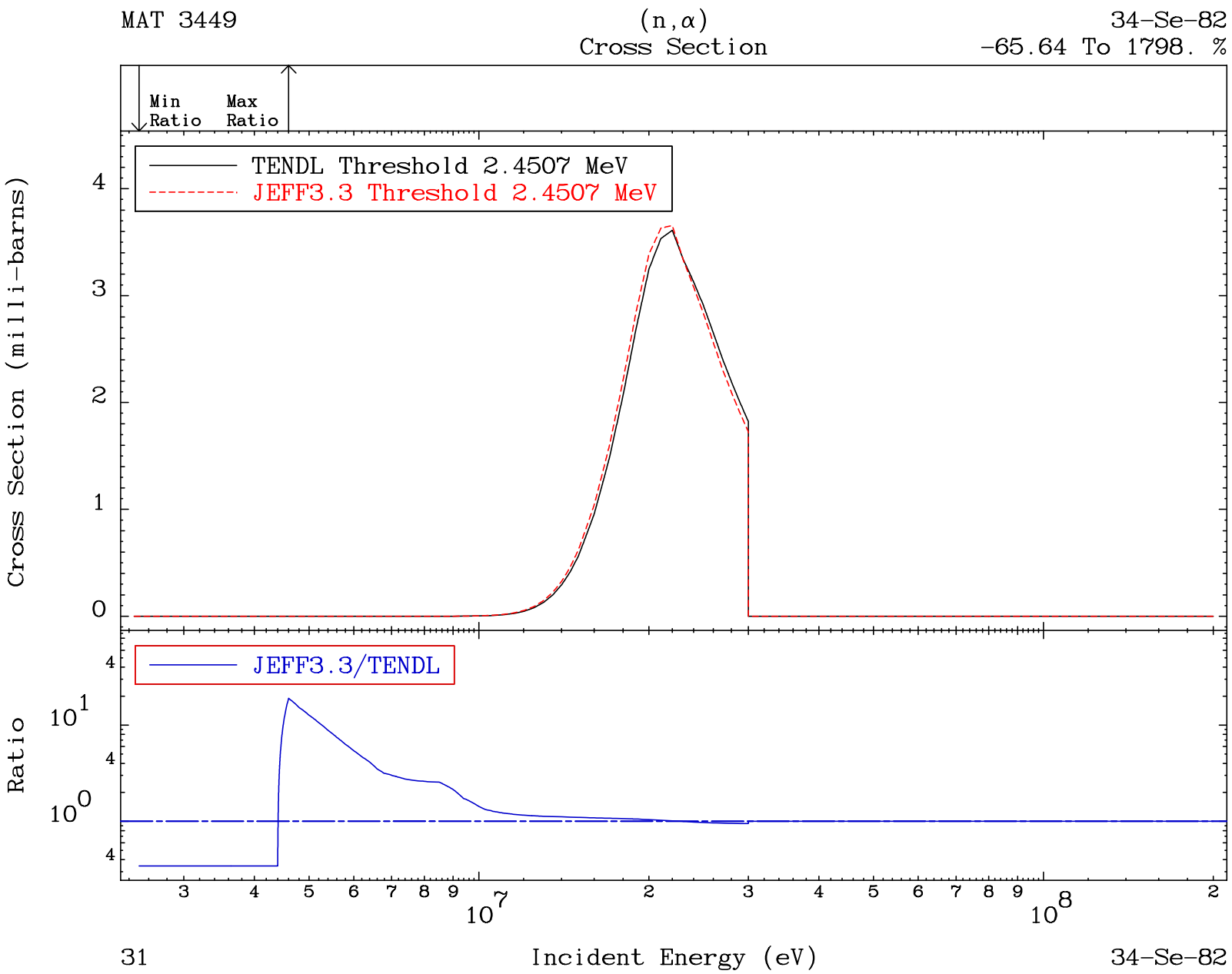

MAT 3449
(n,γ)
Cross Section
34-Se-82
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
26
34-Se-82

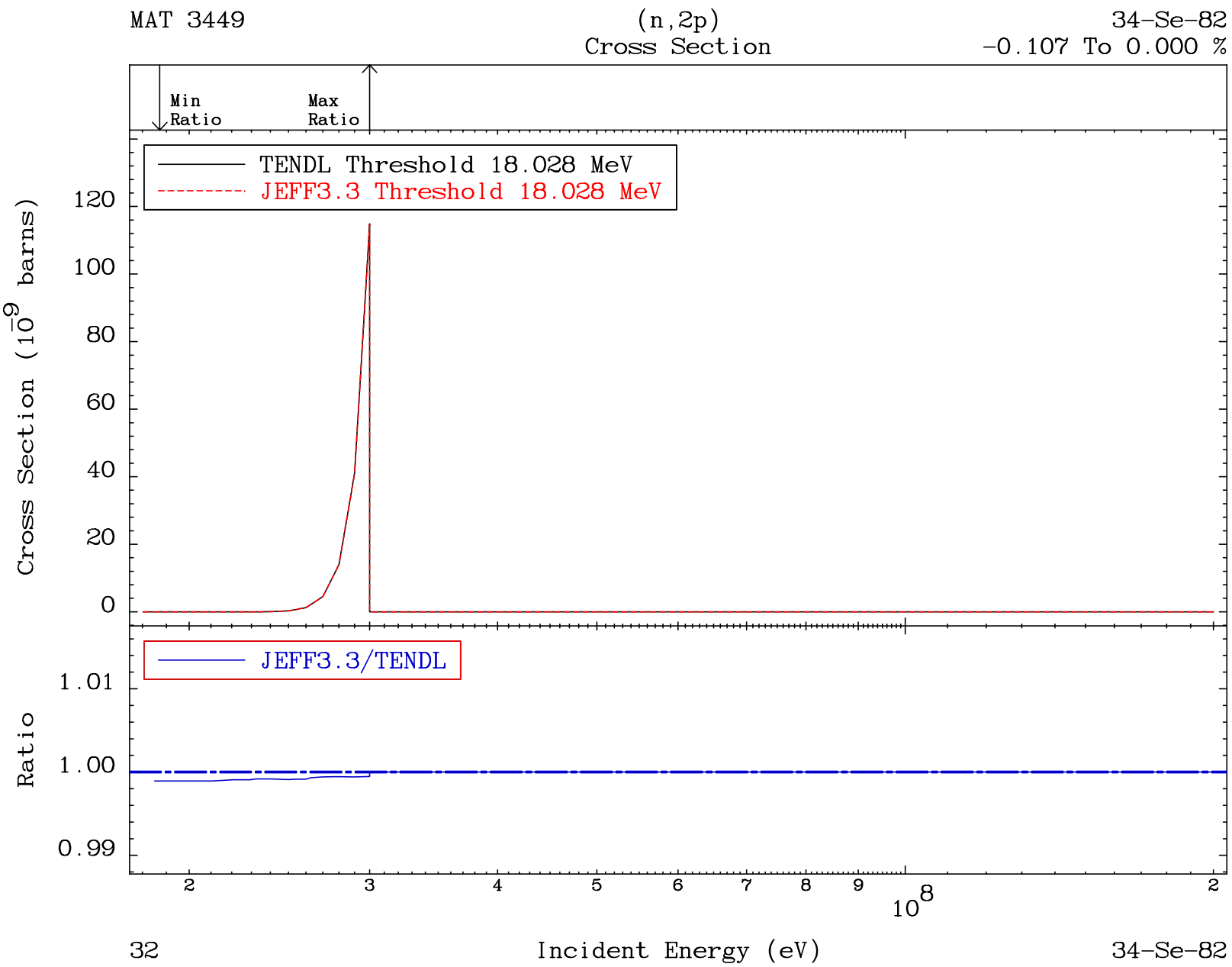

MAT 3449
(n,p)
Cross Section
34-Se-82
-49.04 To 2.431 %
Min Ratio
Max Ratio
TENDL Threshold 6.7887 MeV
JEFF3.3 Threshold 6.7911 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.0
0.8
0.6
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
27
Incident Energy (eV)
34-Se-82

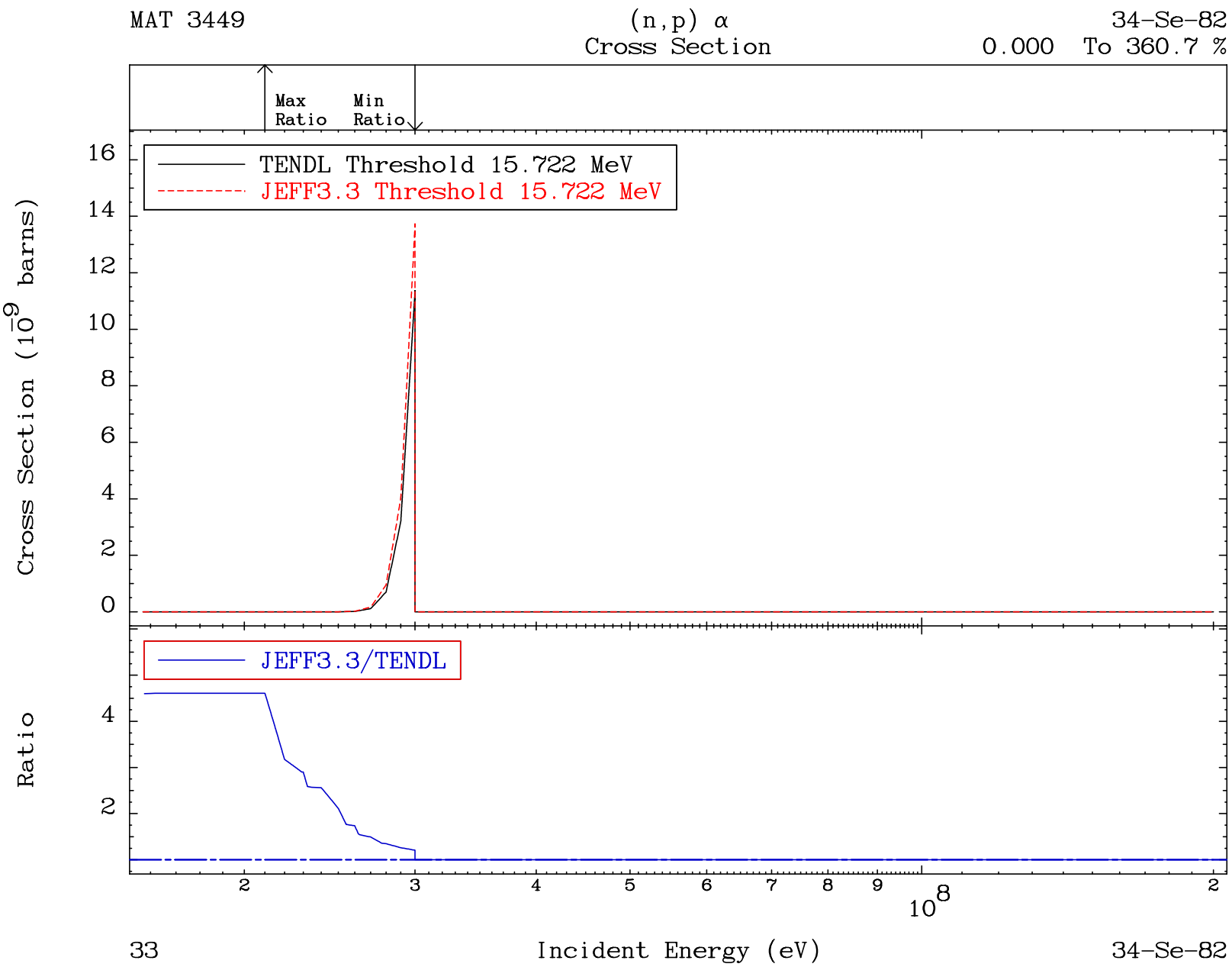

MAT 3449
(n,d)
Cross Section
34-Se-82
-0.096 To 0.010 %
Min Ratio
Max Ratio
TENDL Threshold 10.250 MeV
JEFF3.3 Threshold 10.250 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
28
Incident Energy (eV)
34-Se-82

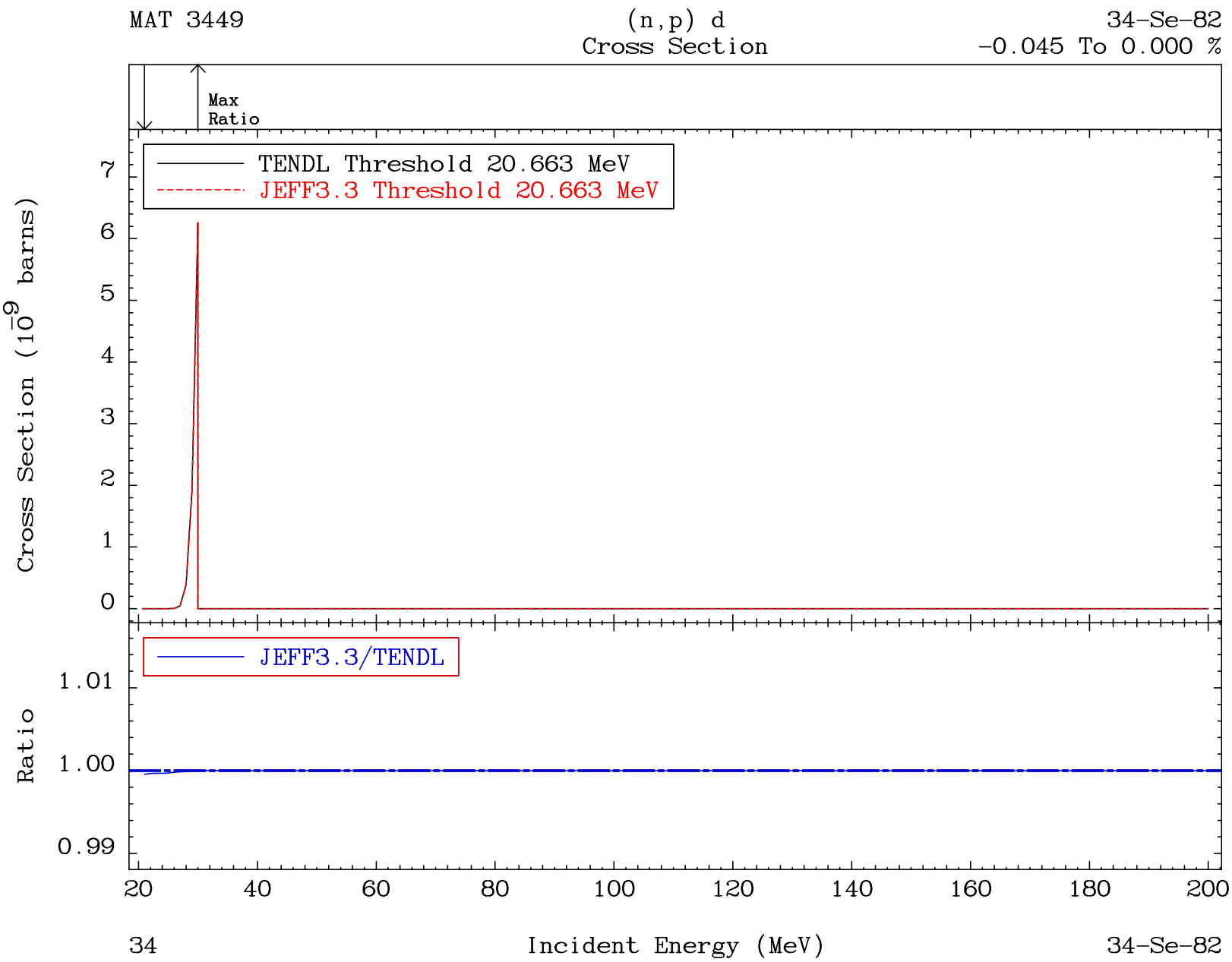

MAT 3449
(n,t)
Cross Section
34-Se-82
-0.167 To 0.018 %
Min Ratio
Max Ratio
TENDL Threshold 12.409 MeV
JEFF3.3 Threshold 12.409 MeV
Cross Section (milli-barns)
0
1
2
3
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
34-Se-82

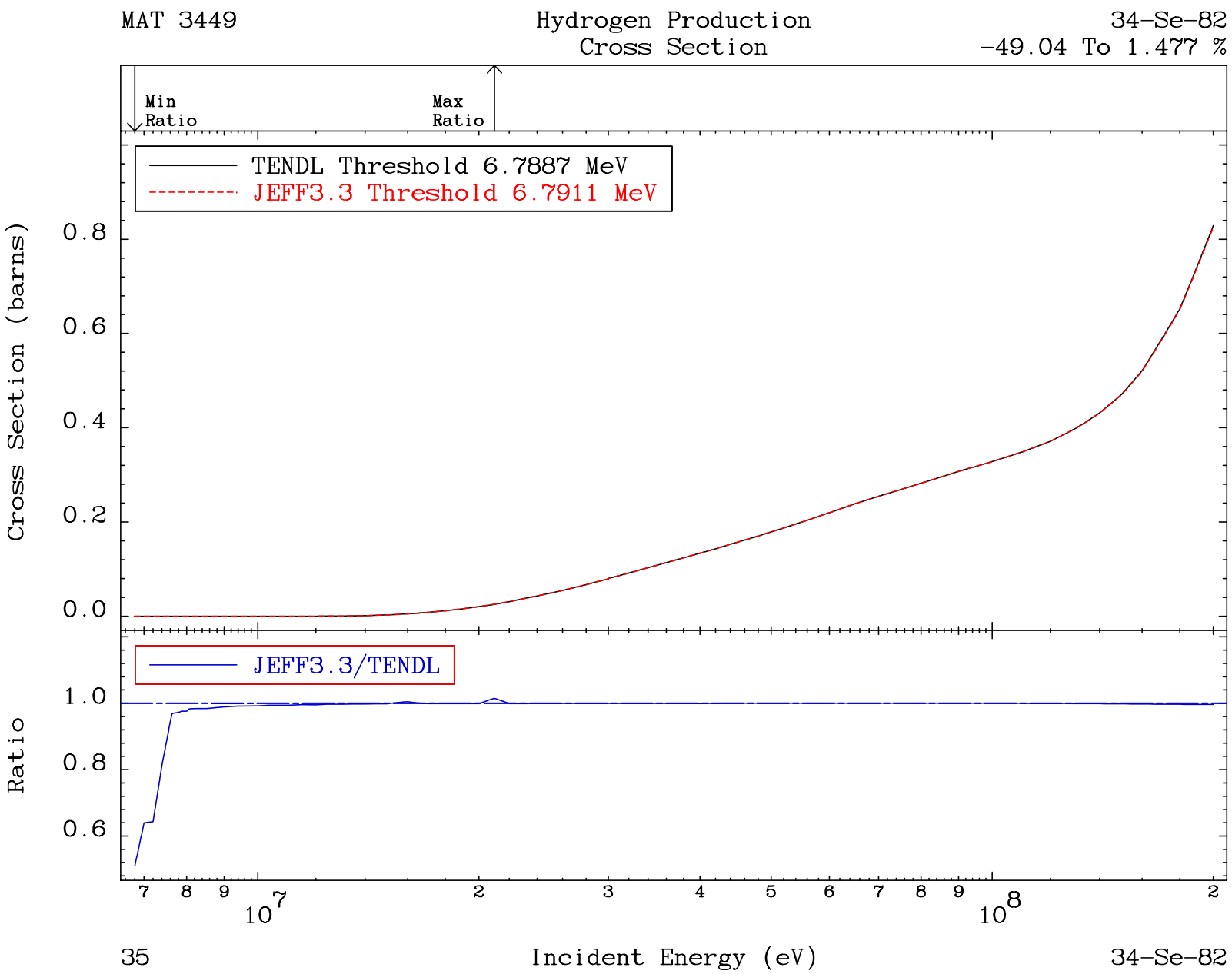

MAT 3449
(n,He-3)
Cross Section
34-Se-82
-0.068 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 15.102 MeV
JEFF3.3 Threshold 15.102 MeV
Cross Section (micro-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
30
Incident Energy (eV)
34-Se-82

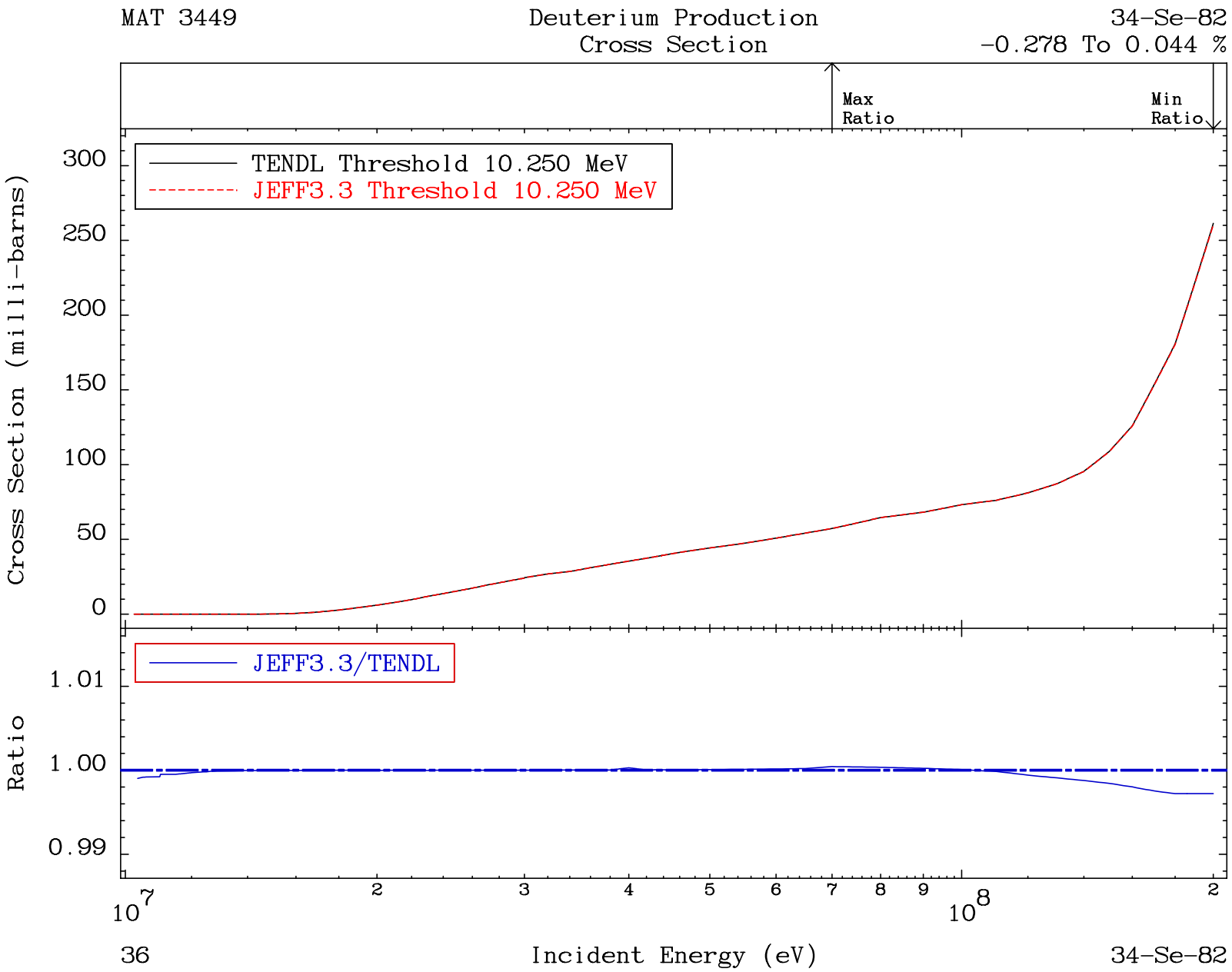

MAT 3449
(n,α)
Cross Section
34-Se-82
-65.64 To 1798. %
Min Ratio
Max Ratio
TENDL Threshold 2.4507 MeV
JEFF3.3 Threshold 2.4507 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
31
34-Se-82

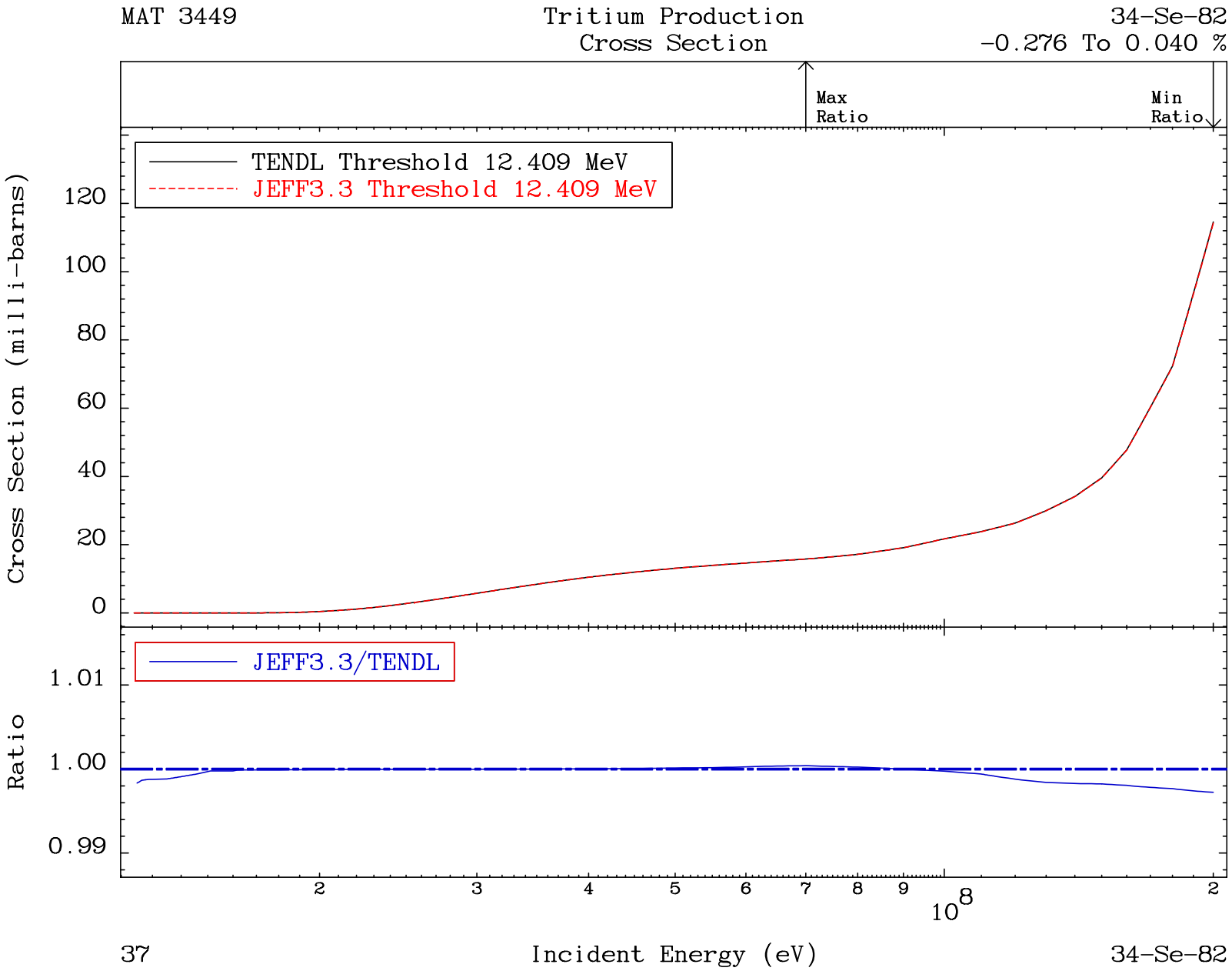

MAT 3449
(n,2p)
Cross Section
34-Se-82
-0.107 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.028 MeV
JEFF3.3 Threshold 18.028 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
32
Incident Energy (eV)
34-Se-82

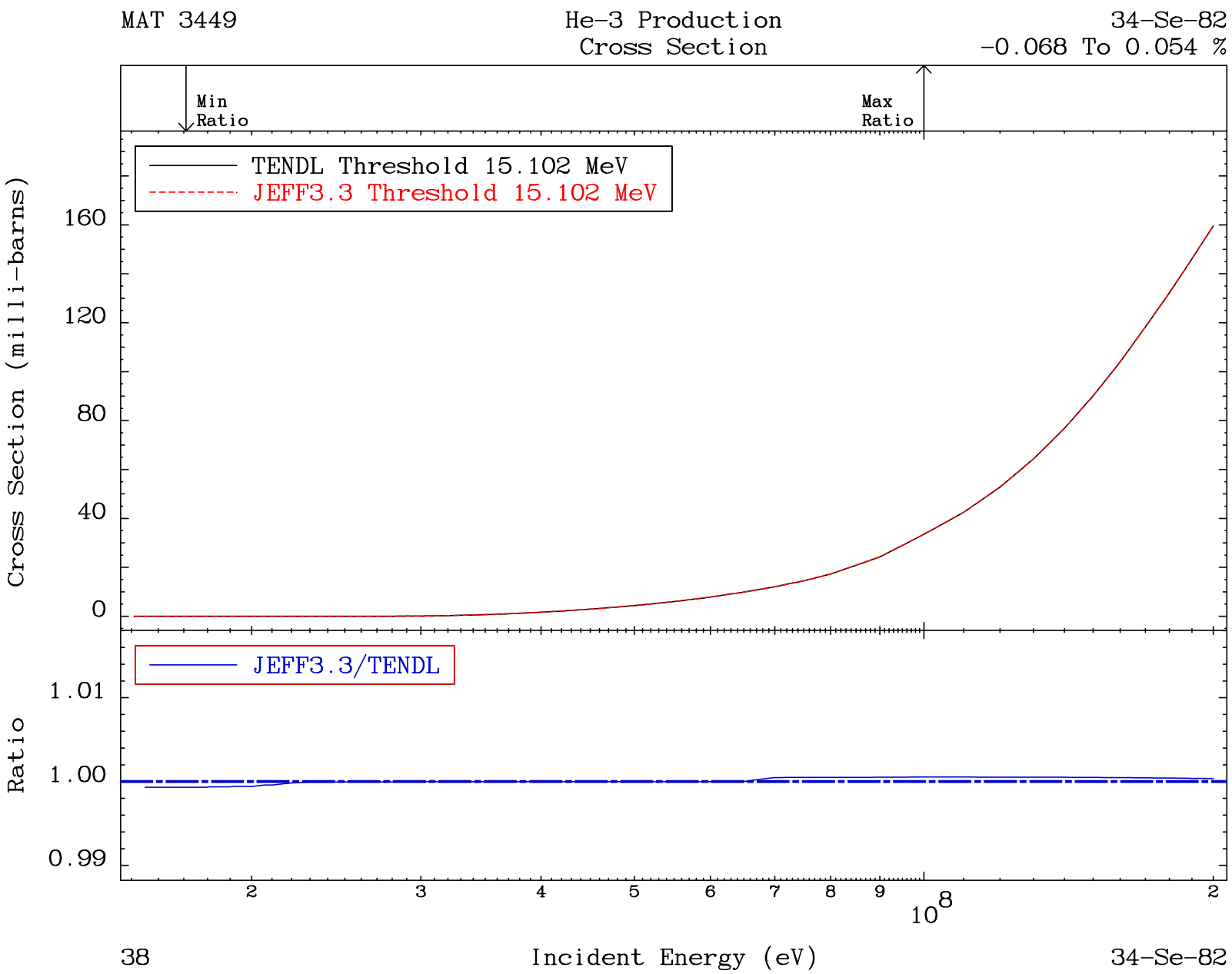

MAT 3449
(n,p) α
Cross Section
34-Se-82
0.000 To 360.7 %
Max Ratio
Min Ratio
TENDL Threshold 15.722 MeV
JEFF3.3 Threshold 15.722 MeV
Cross Section (10^-9 barns)
16
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
4
2
2
3
4
5
6
7
8
9
10^8
2
33
Incident Energy (eV)
34-Se-82

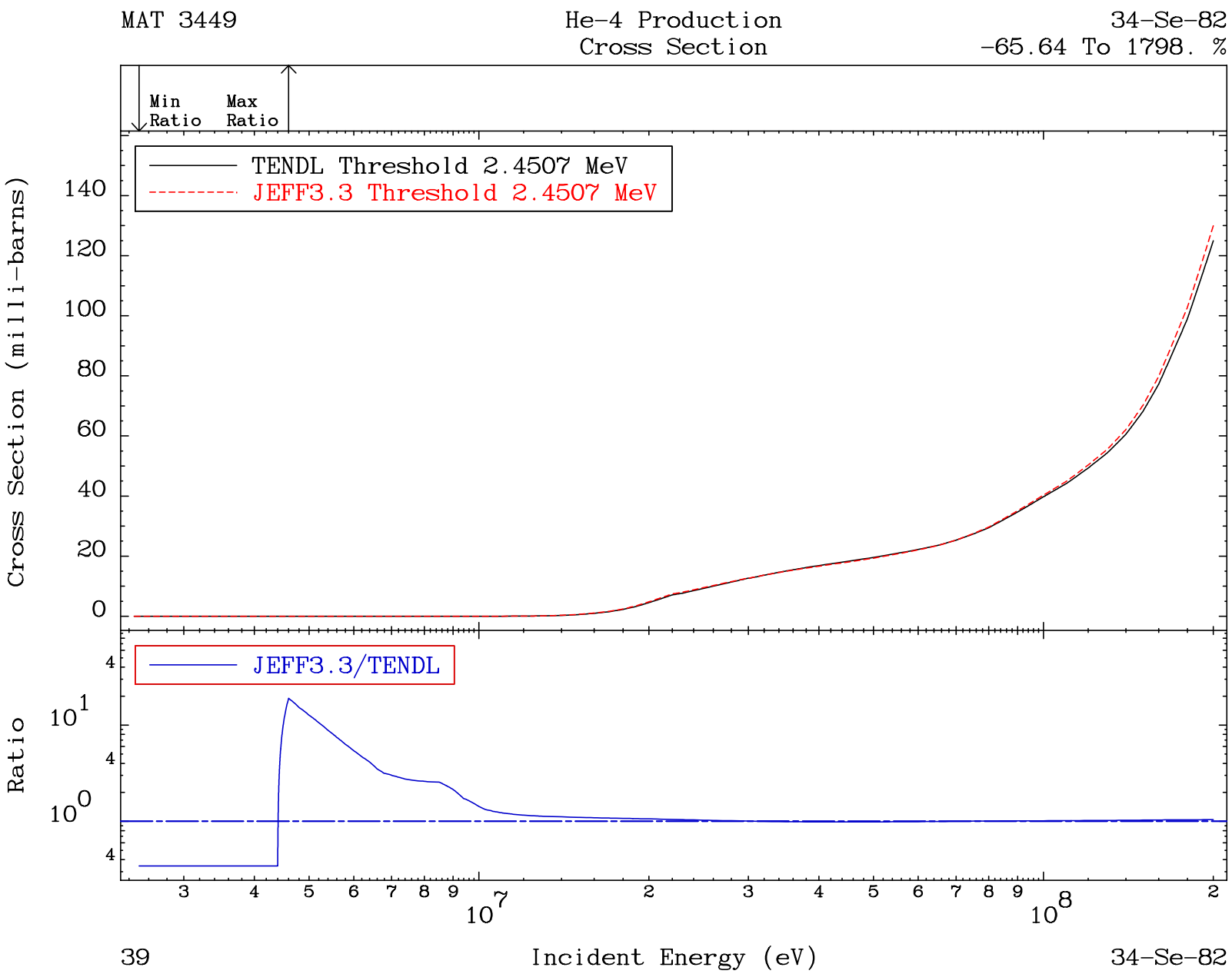

MAT 3449
(n,p) d
Cross Section
34-Se-82
-0.045 To 0.000 %
Max
Ratio
TENDL Threshold 20.663 MeV
JEFF3.3 Threshold 20.663 MeV
Cross Section (10^-9 barns)
0
1
2
3
4
5
6
7
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
20
40
60
80
100
120
140
160
180
200
34
Incident Energy (MeV)
34-Se-82

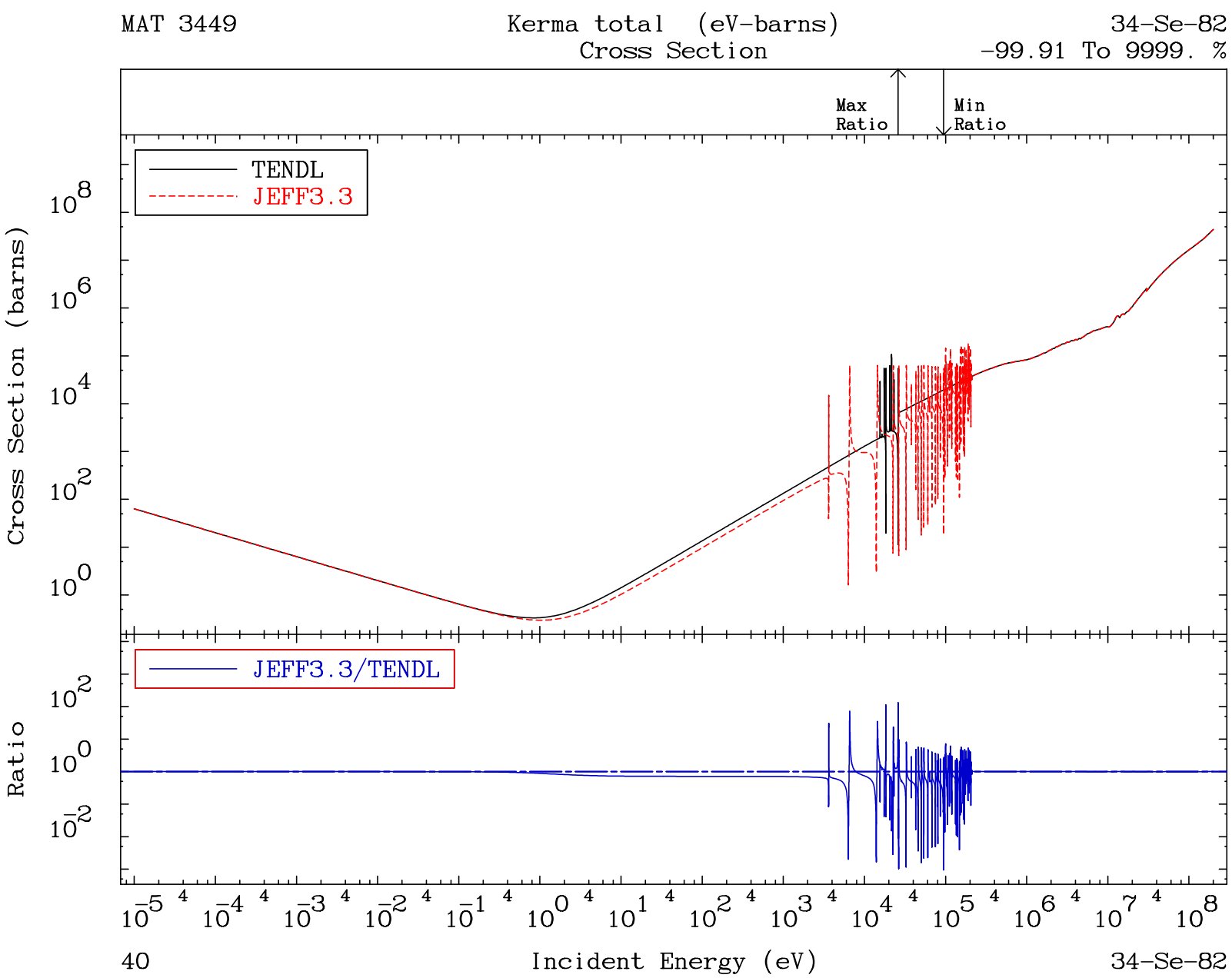

MAT 3449
Hydrogen Production
Cross Section
34-Se-82
-49.04 To 1.477 %
Min Ratio
Max Ratio
TENDL Threshold 6.7887 MeV
JEFF3.3 Threshold 6.7911 MeV
Cross Section (barns)
0.0
0.2
0.4
0.6
0.8
JEFF3.3/TENDL
Ratio
0.6
0.8
1.0
7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
35
Incident Energy (eV)
34-Se-82

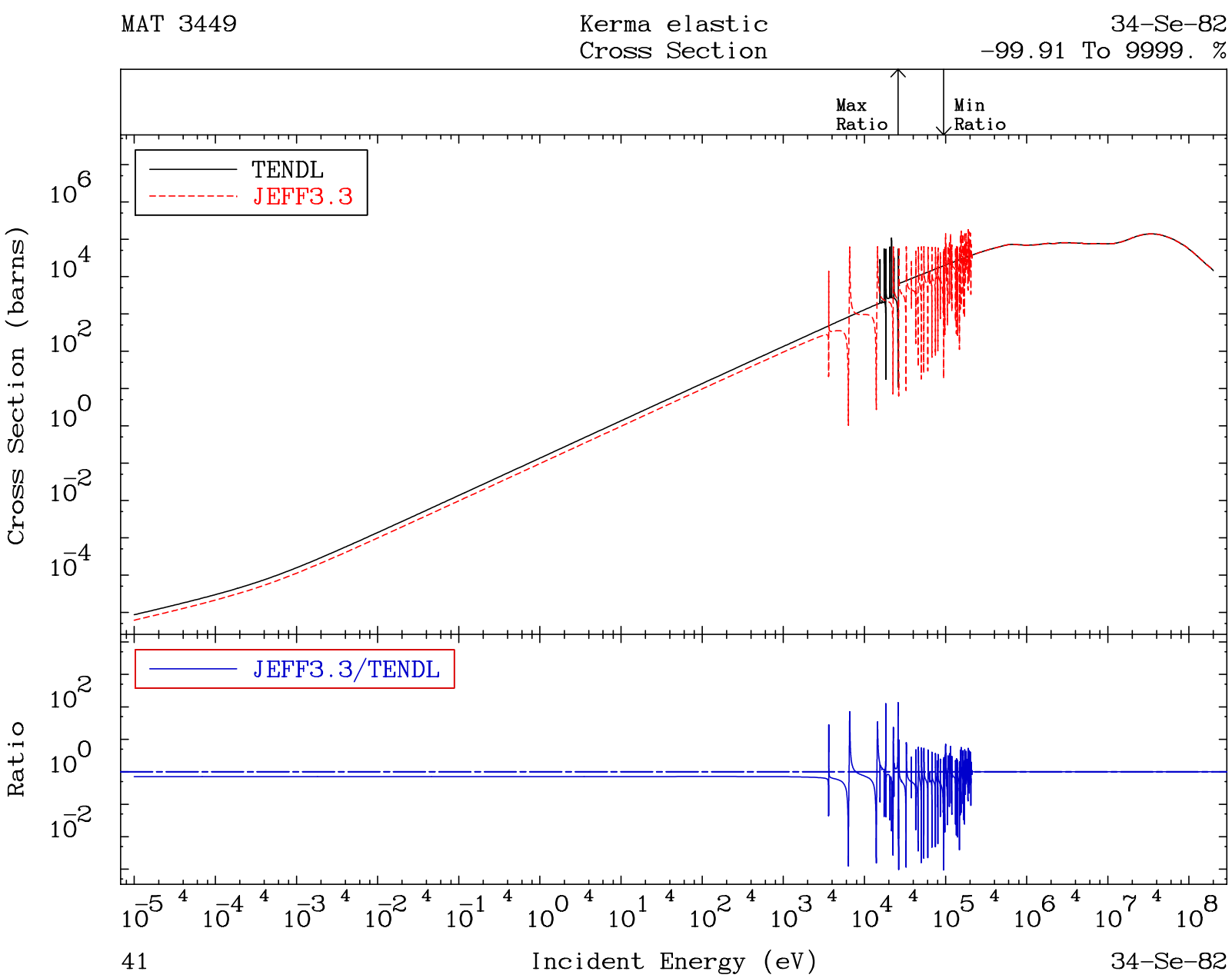

MAT 3449
Deuterium Production
Cross Section
34-Se-82
-0.278 To 0.044 %
Max Ratio
Min Ratio
TENDL Threshold 10.250 MeV
JEFF3.3 Threshold 10.250 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
36
Incident Energy (eV)
34-Se-82

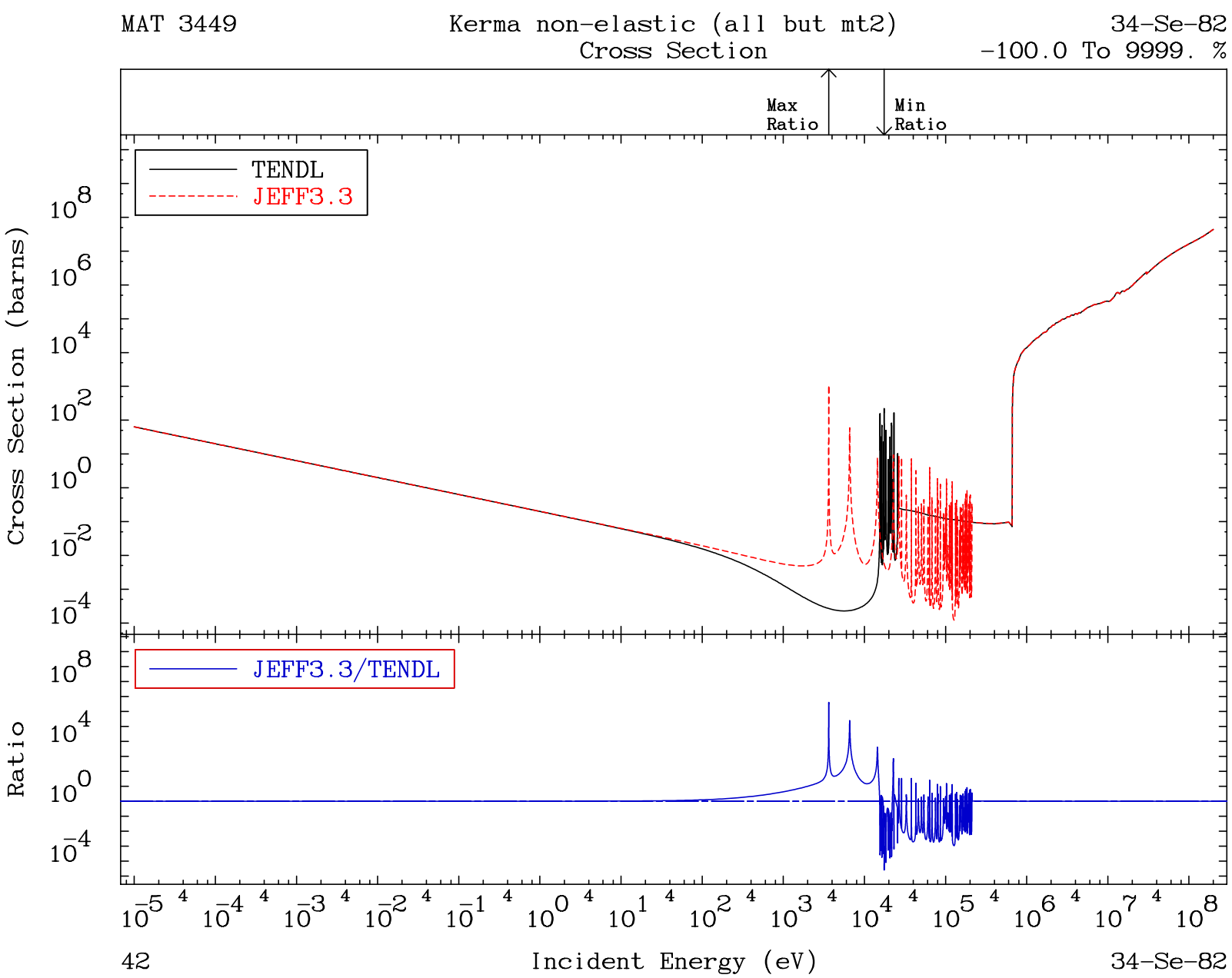

MAT 3449
Tritium Production
Cross Section
34-Se-82
-0.276 To 0.040 %
Max
Ratio
Min
Ratio
TENDL Threshold 12.409 MeV
JEFF3.3 Threshold 12.409 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
37
Incident Energy (eV)
34-Se-82

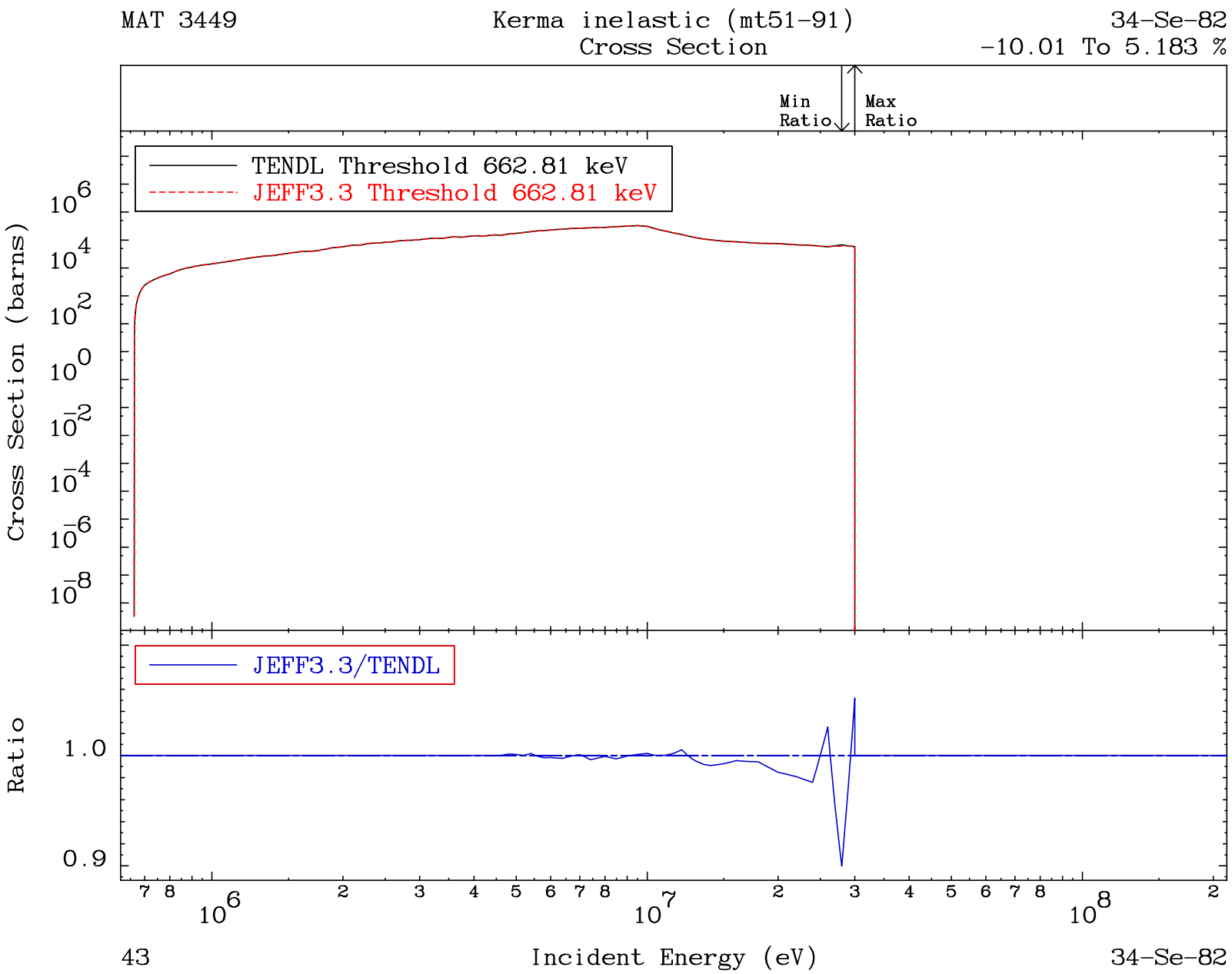

MAT 3449
He-3 Production
Cross Section
34-Se-82
-0.068 To 0.054 %
Min Ratio
Max Ratio
TENDL Threshold 15.102 MeV
JEFF3.3 Threshold 15.102 MeV
Cross Section (milli-barns)
160
120
80
40
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^8
2
38
Incident Energy (eV)
34-Se-82

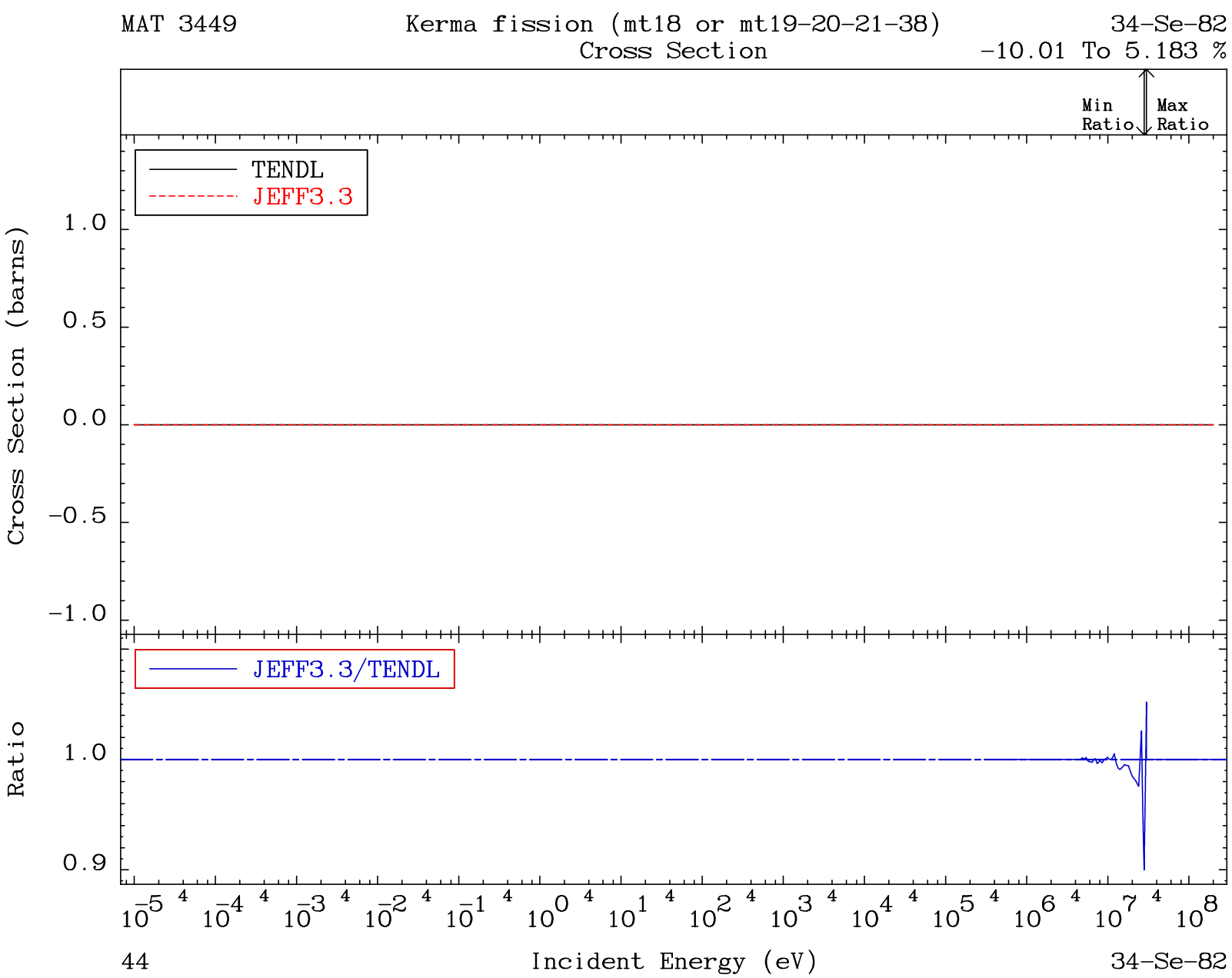

MAT 3449
He-4 Production
Cross Section
34-Se-82
-65.64 To 1798. %
Min Ratio
Max Ratio
TENDL Threshold 2.4507 MeV
JEFF3.3 Threshold 2.4507 MeV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
39
Incident Energy (eV)
34-Se-82

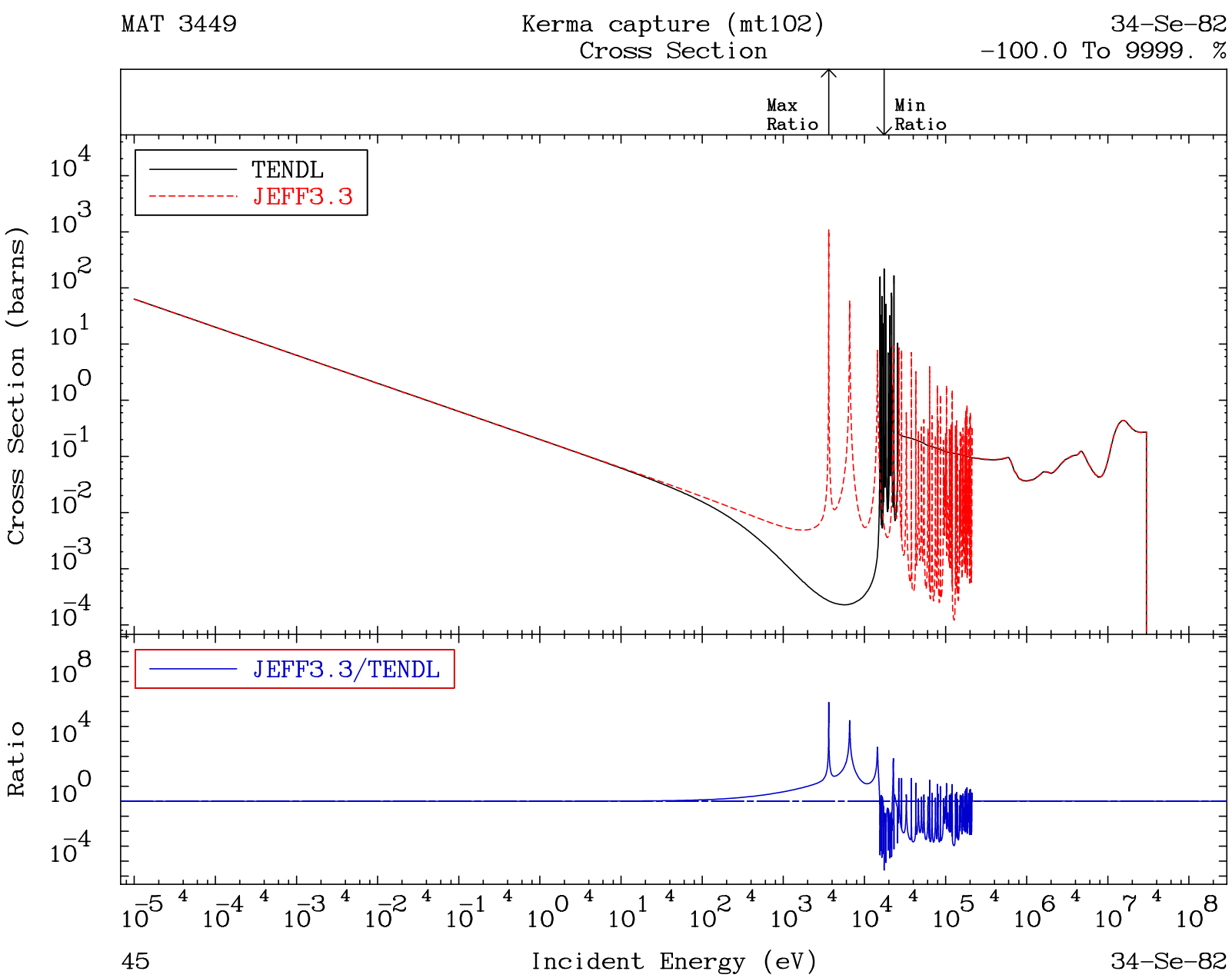

MAT 3449
Kerma total (eV-barns)
Cross Section
34-Se-82
-99.91 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
40
34-Se-82

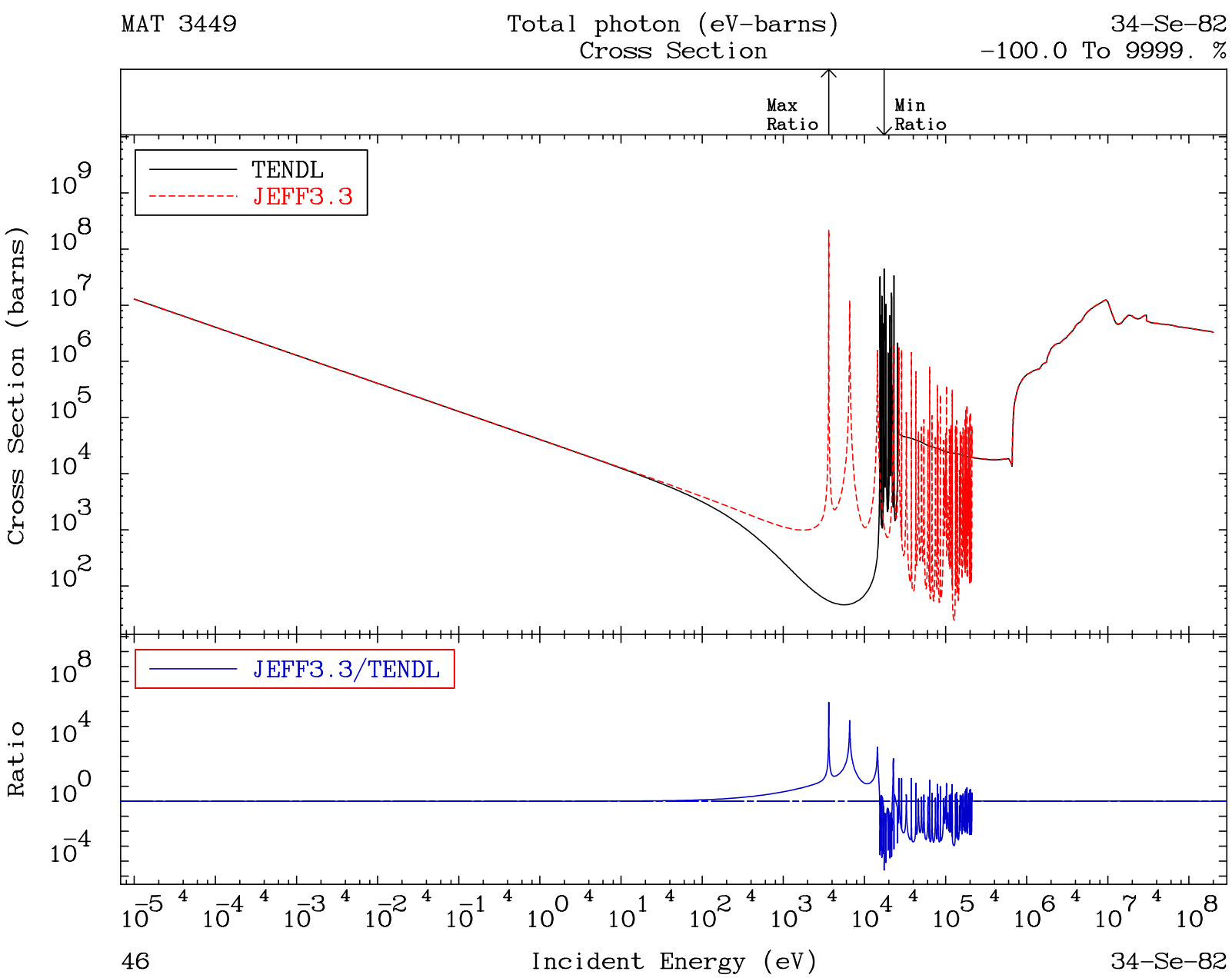

MAT 3449
Kerma elastic
Cross Section
34-Se-82
-99.91 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
41
34-Se-82

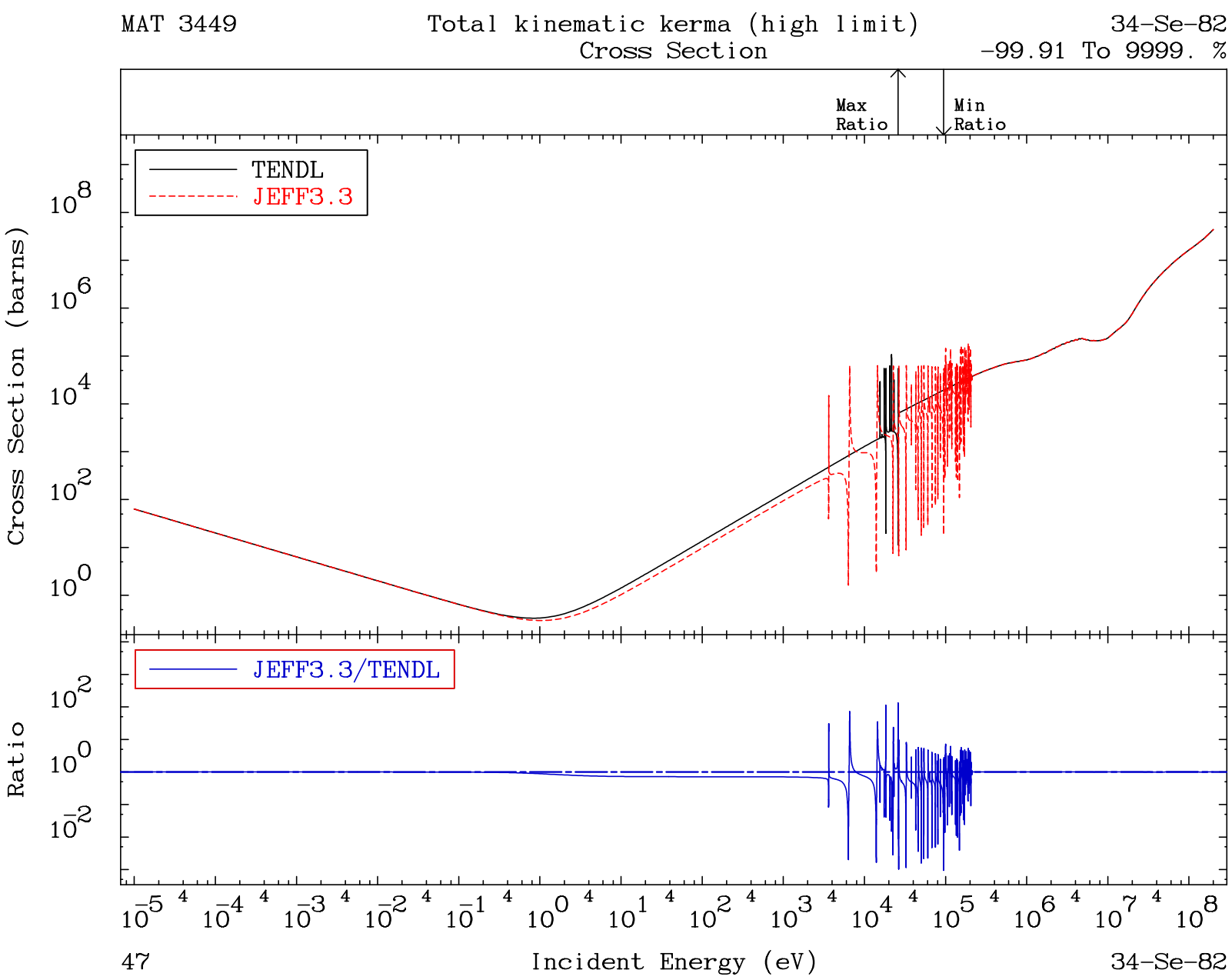

MAT 3449
Kerma non-elastic (all but mt2)
Cross Section
34-Se-82
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
42
34-Se-82

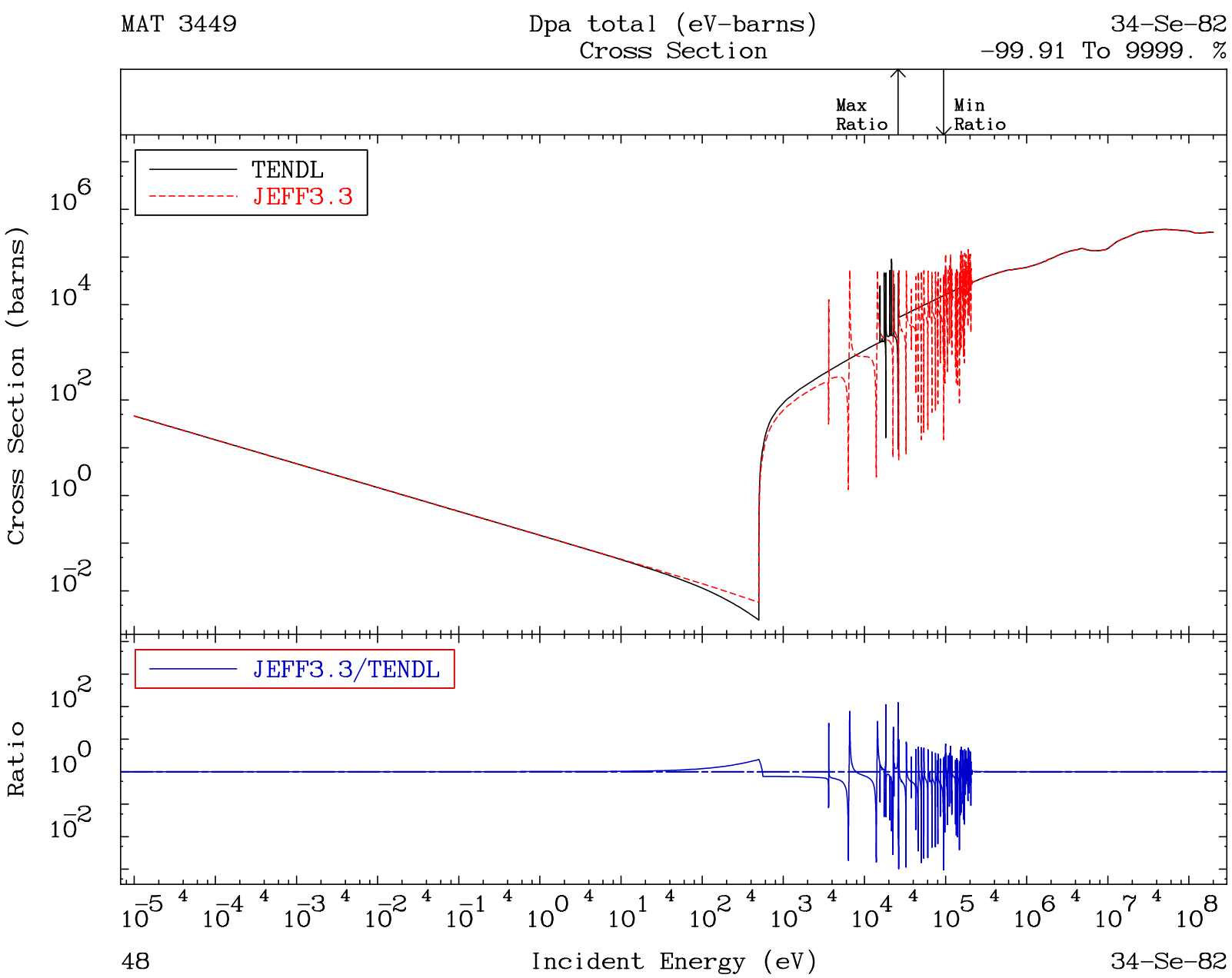

MAT 3449
Kerma inelastic (mt51-91)
Cross Section
34-Se-82
-10.01 To 5.183 %
Min Ratio
Max Ratio
TENDL Threshold 662.81 keV
JEFF3.3 Threshold 662.81 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
43
34-Se-82

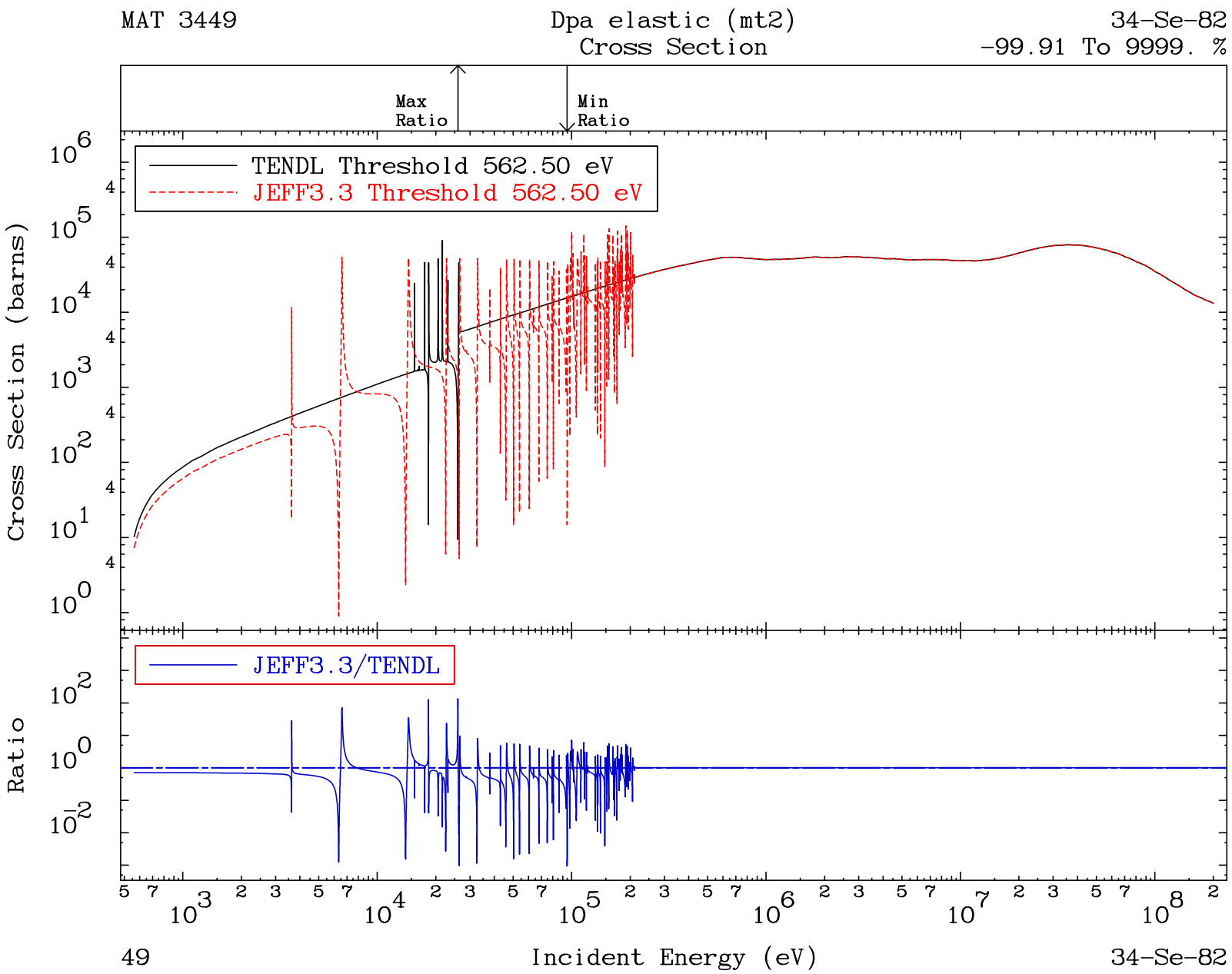

MAT 3449
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
34-Se-82
-10.01 To 5.183 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
1.0
0.9
10-5 4 10-4 4 10-3 4 10-2 4 10-1 4 100 4 101 4 102 4 103 4 104 4 105 4 106 4 107 4 108
44
Incident Energy (eV)
34-Se-82

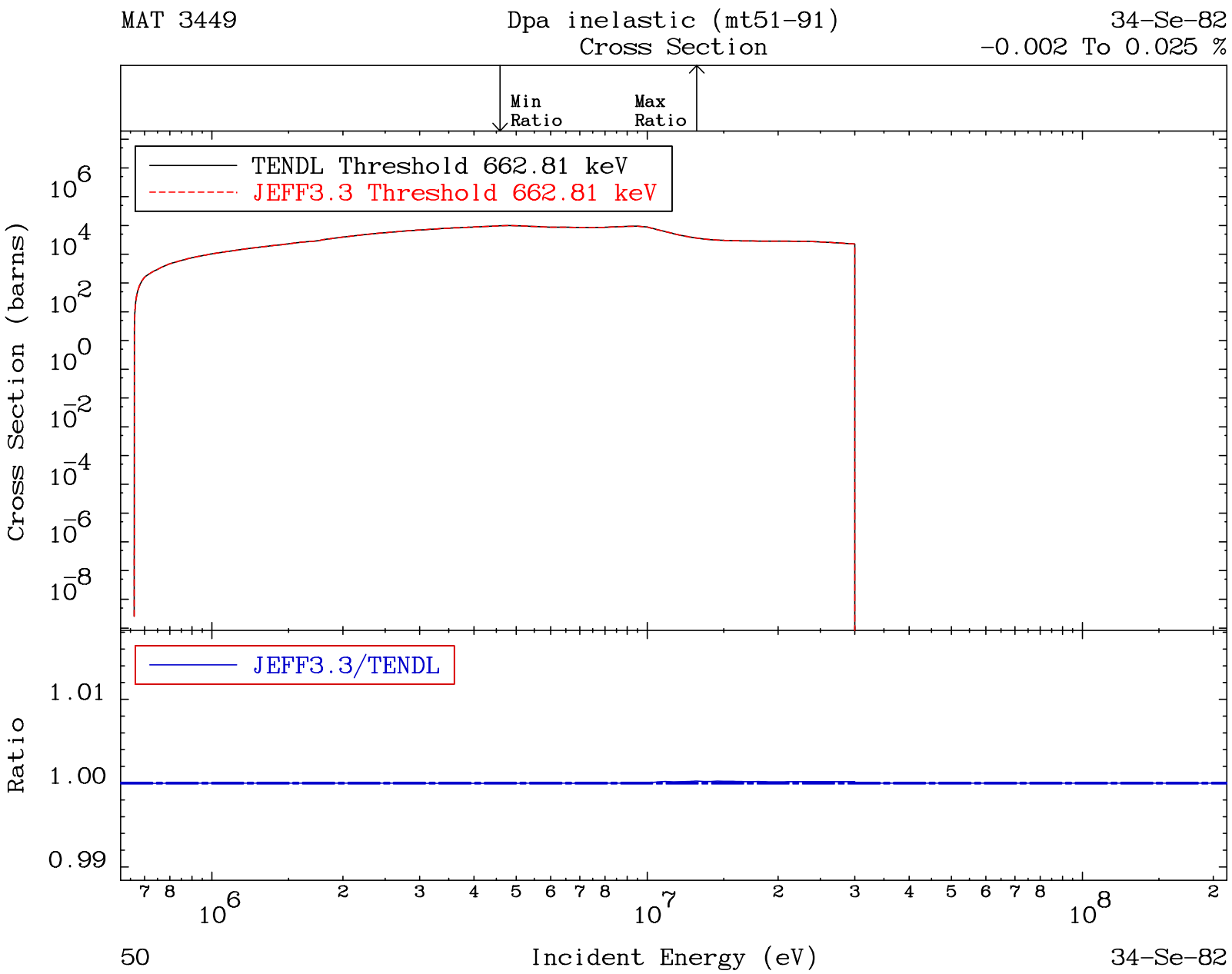

MAT 3449
Kerma capture (mt102)
Cross Section
34-Se-82
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
45
34-Se-82

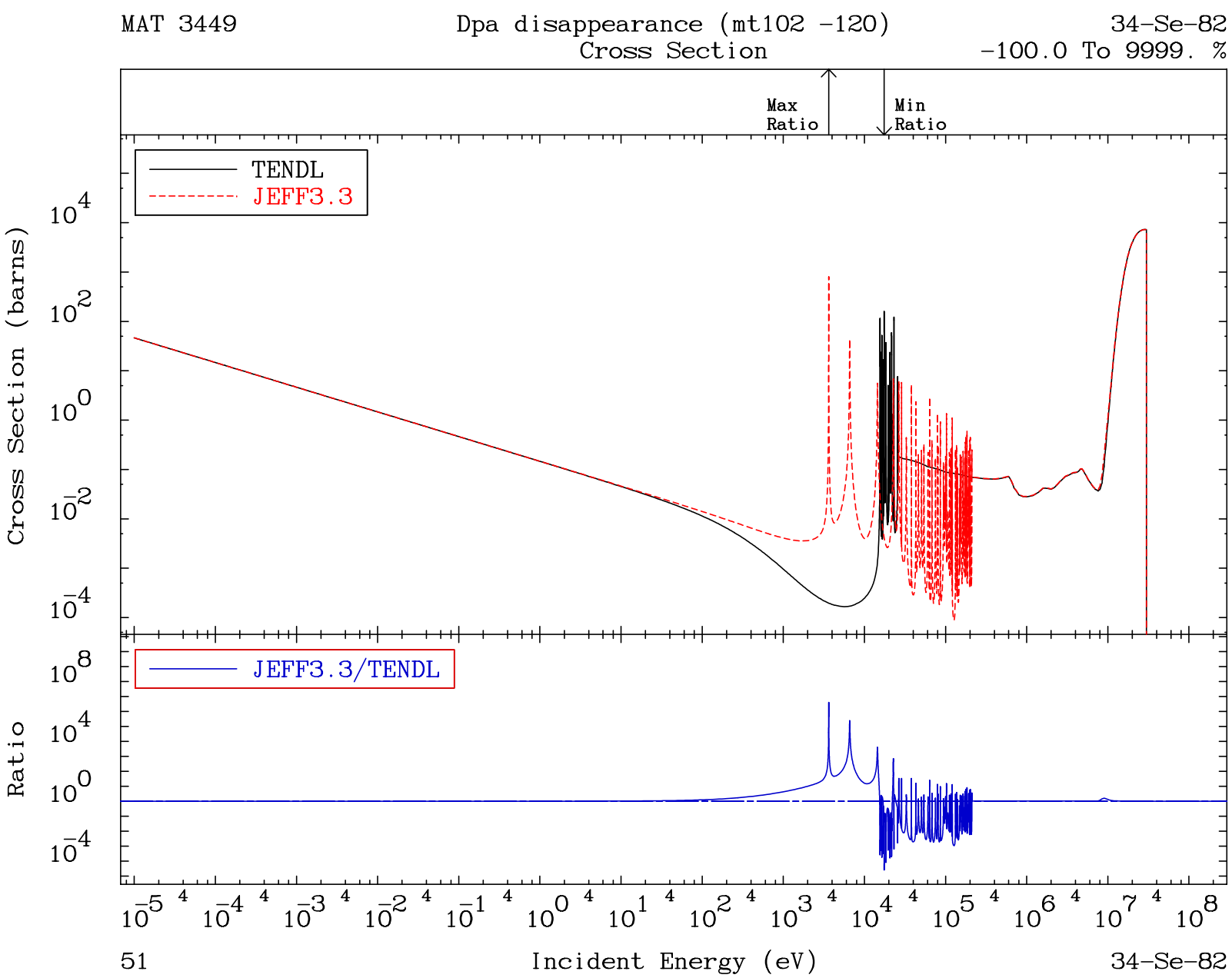

MAT 3449
Total photon (eV-barns)
Cross Section
34-Se-82
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
46
34-Se-82

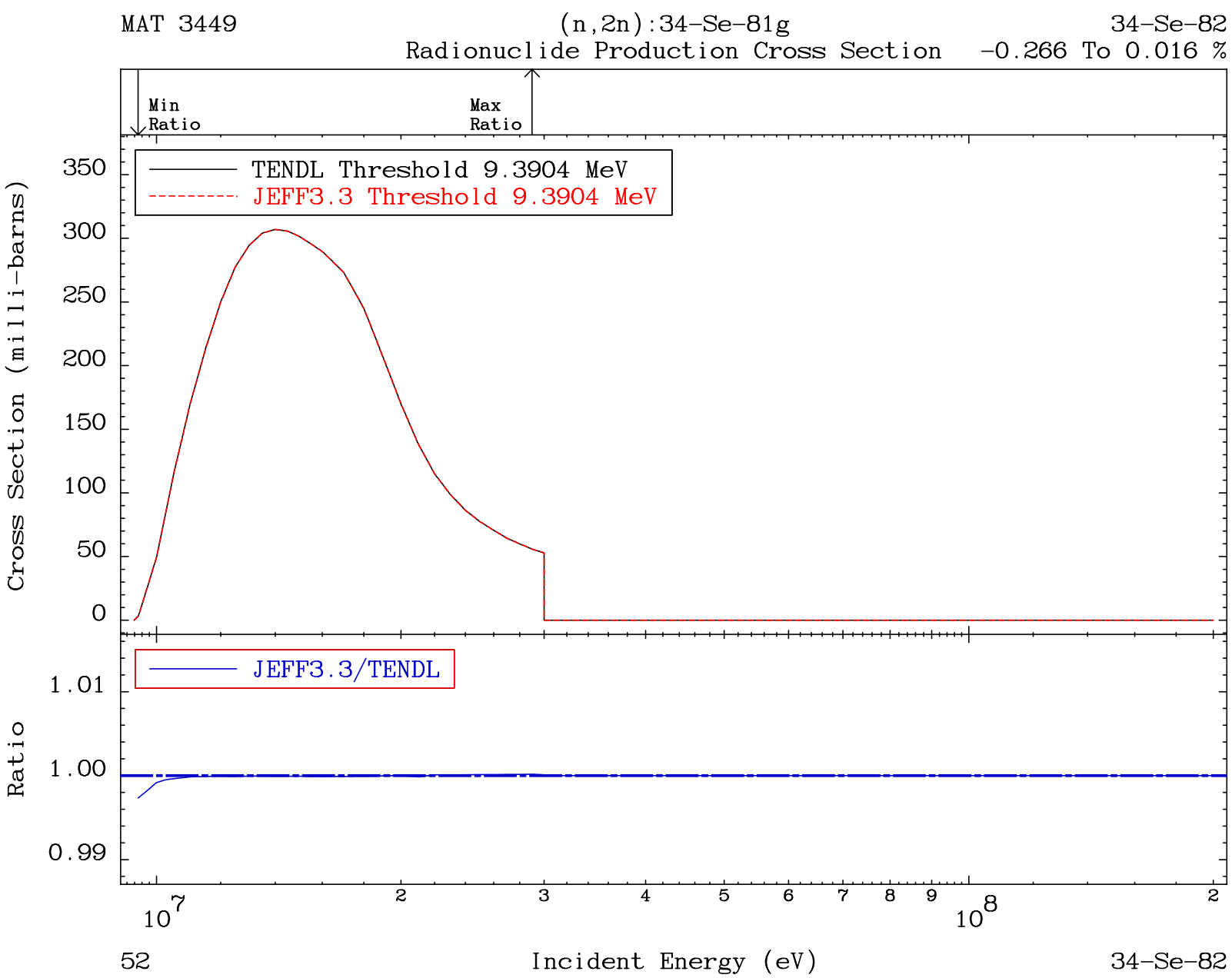

MAT 3449
Total kinematic kerma (high limit)
Cross Section
34-Se-82
-99.91 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
47
34-Se-82

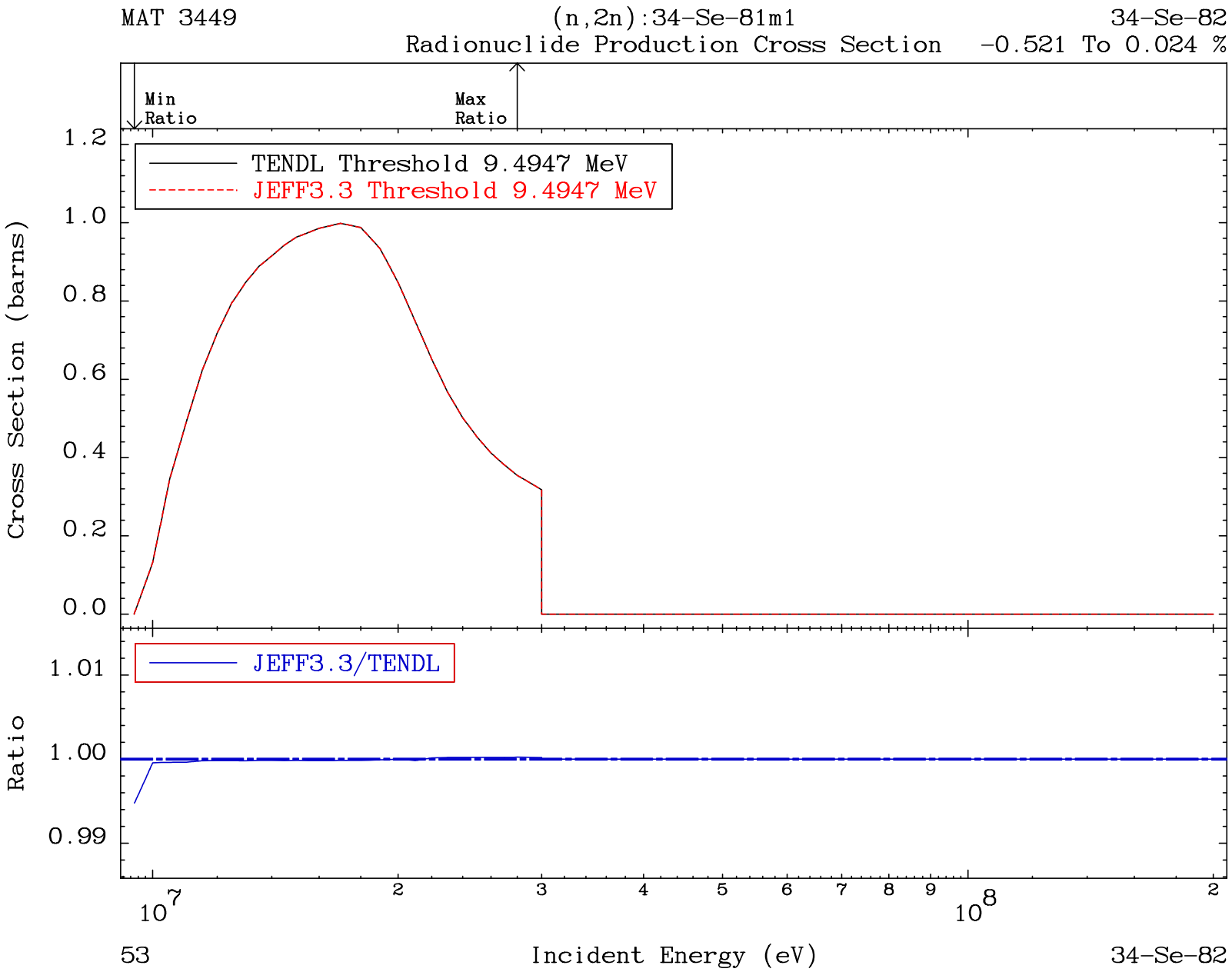

MAT 3449
Dpa total (eV-barns)
Cross Section
34-Se-82
-99.91 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
48
Incident Energy (eV)
34-Se-82

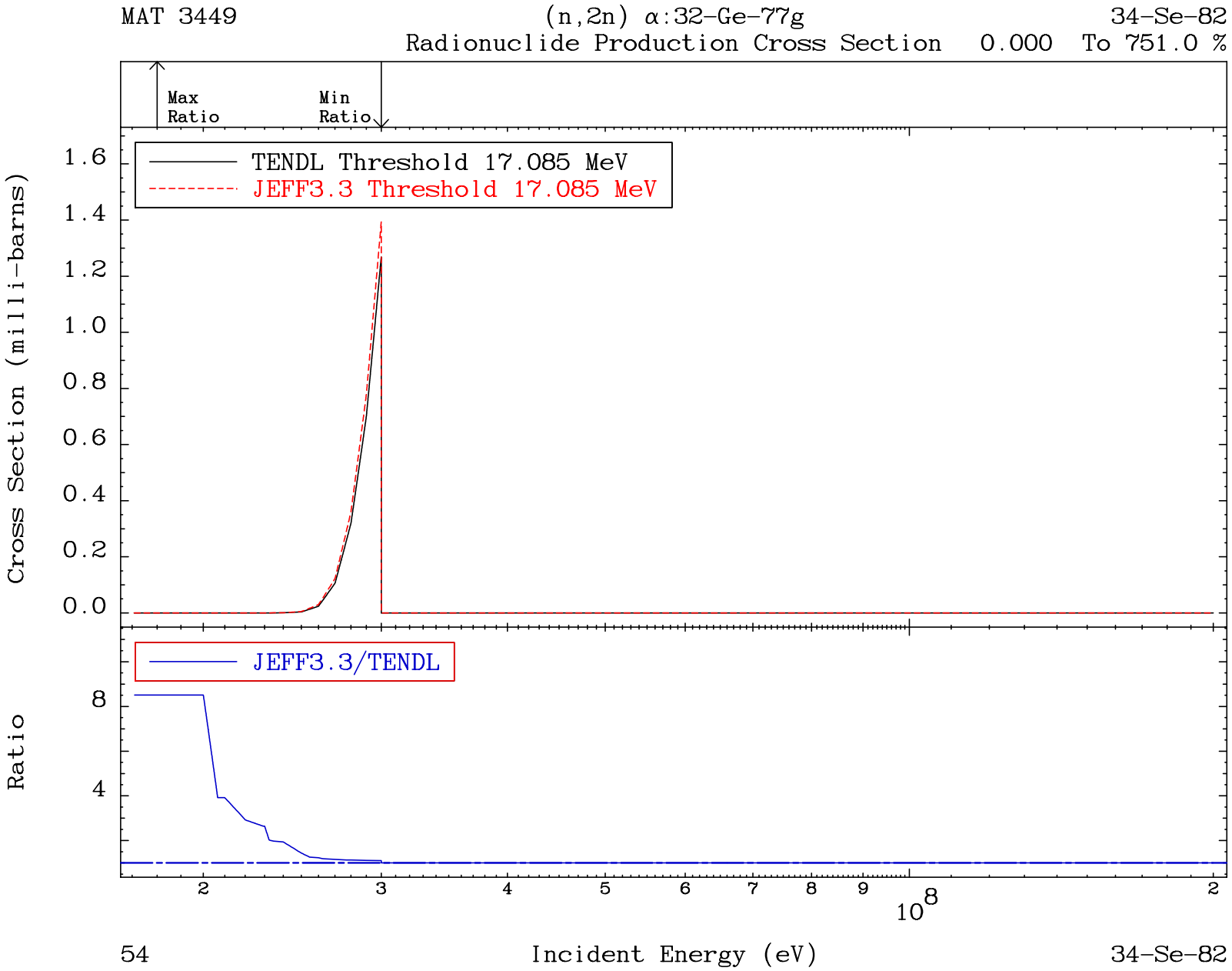

MAT 3449
Dpa elastic (mt2)
Cross Section
34-Se-82
-99.91 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 562.50 eV
JEFF3.3 Threshold 562.50 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
49
34-Se-82

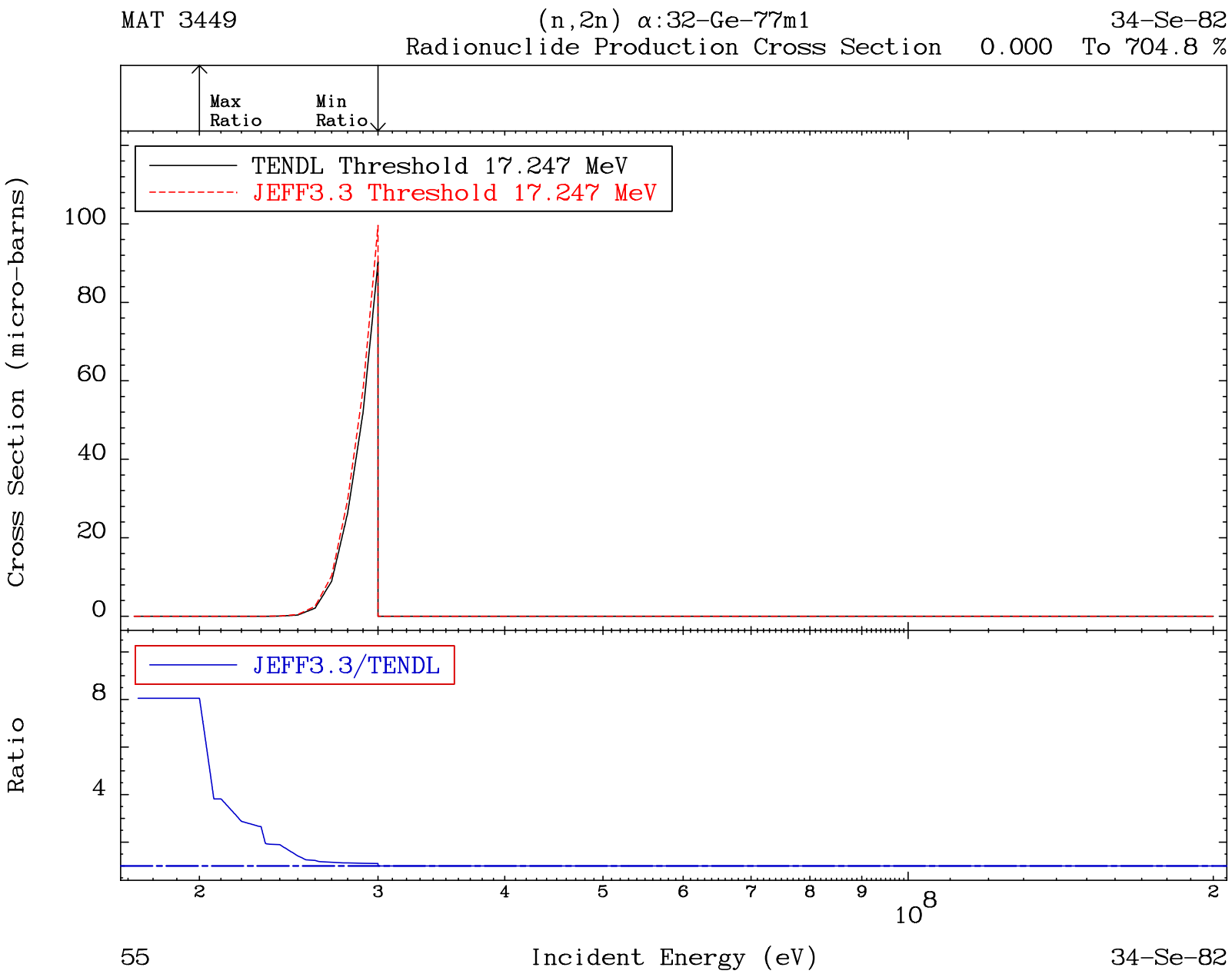

MAT 3449
Dpa inelastic (mt51-91)
Cross Section
34-Se-82
-0.002 To 0.025 %
Min Ratio
Max Ratio
TENDL Threshold 662.81 keV
JEFF3.3 Threshold 662.81 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
50
34-Se-82

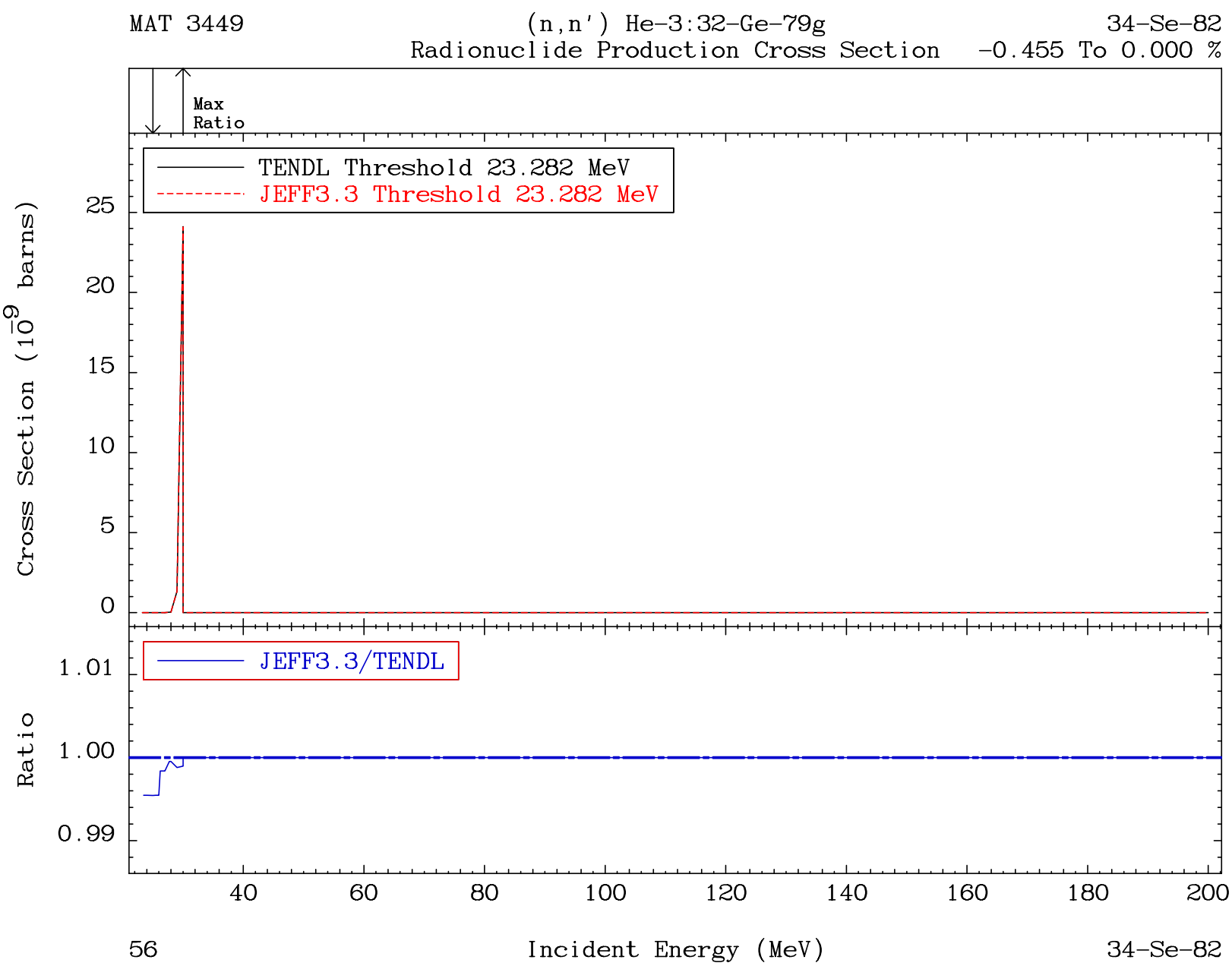

MAT 3449
Dpa disappearance (mt102 -120)
Cross Section
34-Se-82
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
51
34-Se-82

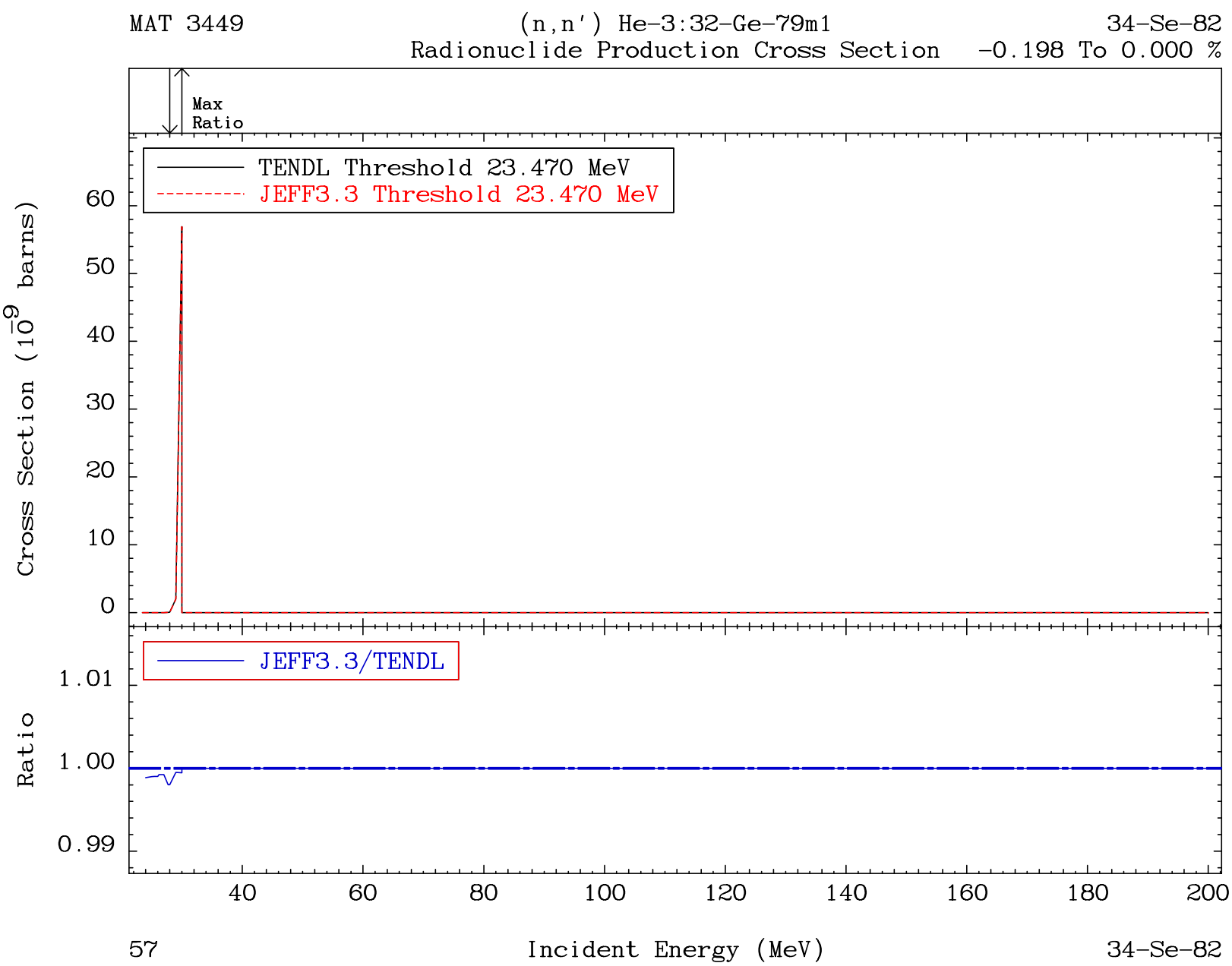

MAT 3449
(n,2n):34-Se-81g
34-Se-82
Radionuclide Production Cross Section
-0.266 To 0.016 %
Min Ratio
Max Ratio
TENDL Threshold 9.3904 MeV
JEFF3.3 Threshold 9.3904 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
52
Incident Energy (eV)
34-Se-82

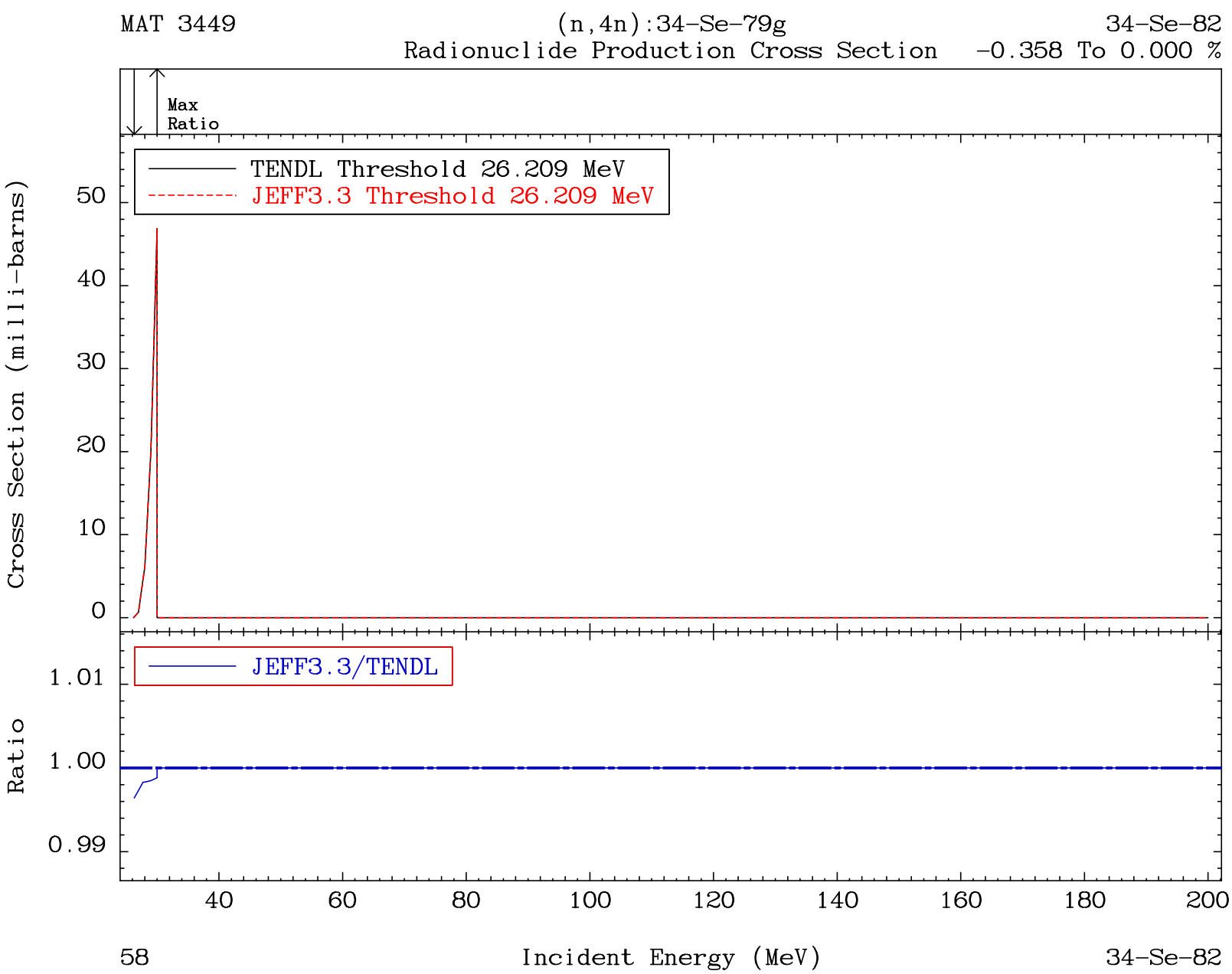

MAT 3449
(n,2n):34-Se-81m1
34-Se-82
Radionuclide Production Cross Section
-0.521 To 0.024 %
Min Ratio
Max Ratio
TENDL Threshold 9.4947 MeV
JEFF3.3 Threshold 9.4947 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
10^7
2
3
4
5
6
7
8
9
10^8
2
53
Incident Energy (eV)
34-Se-82

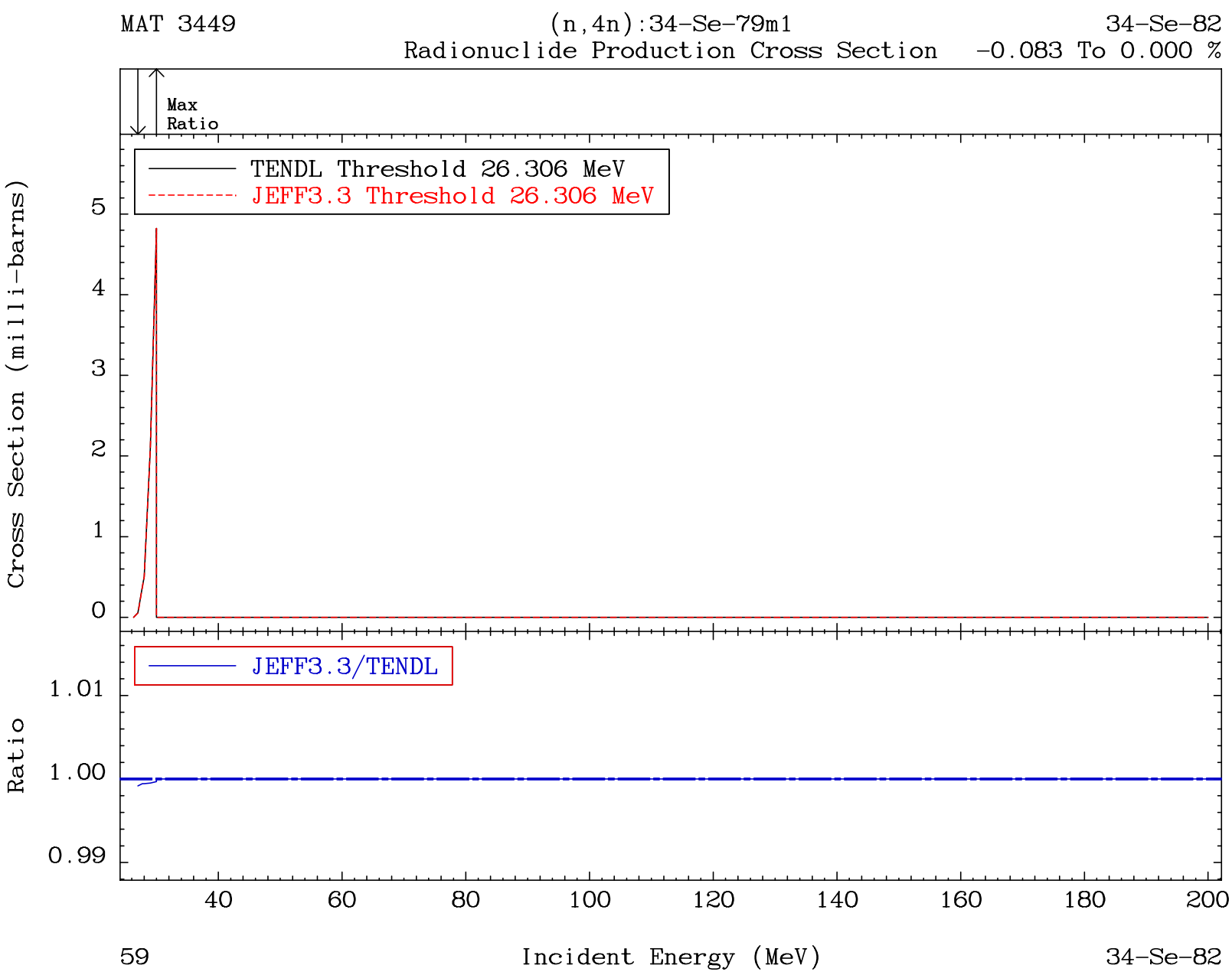

MAT 3449
(n,2n) α:32-Ge-77g
34-Se-82
Radionuclide Production Cross Section 0.000 To 751.0 %
Max Ratio
Min Ratio
TENDL Threshold 17.085 MeV
JEFF3.3 Threshold 17.085 MeV
Cross Section (milli-barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
34-Se-82

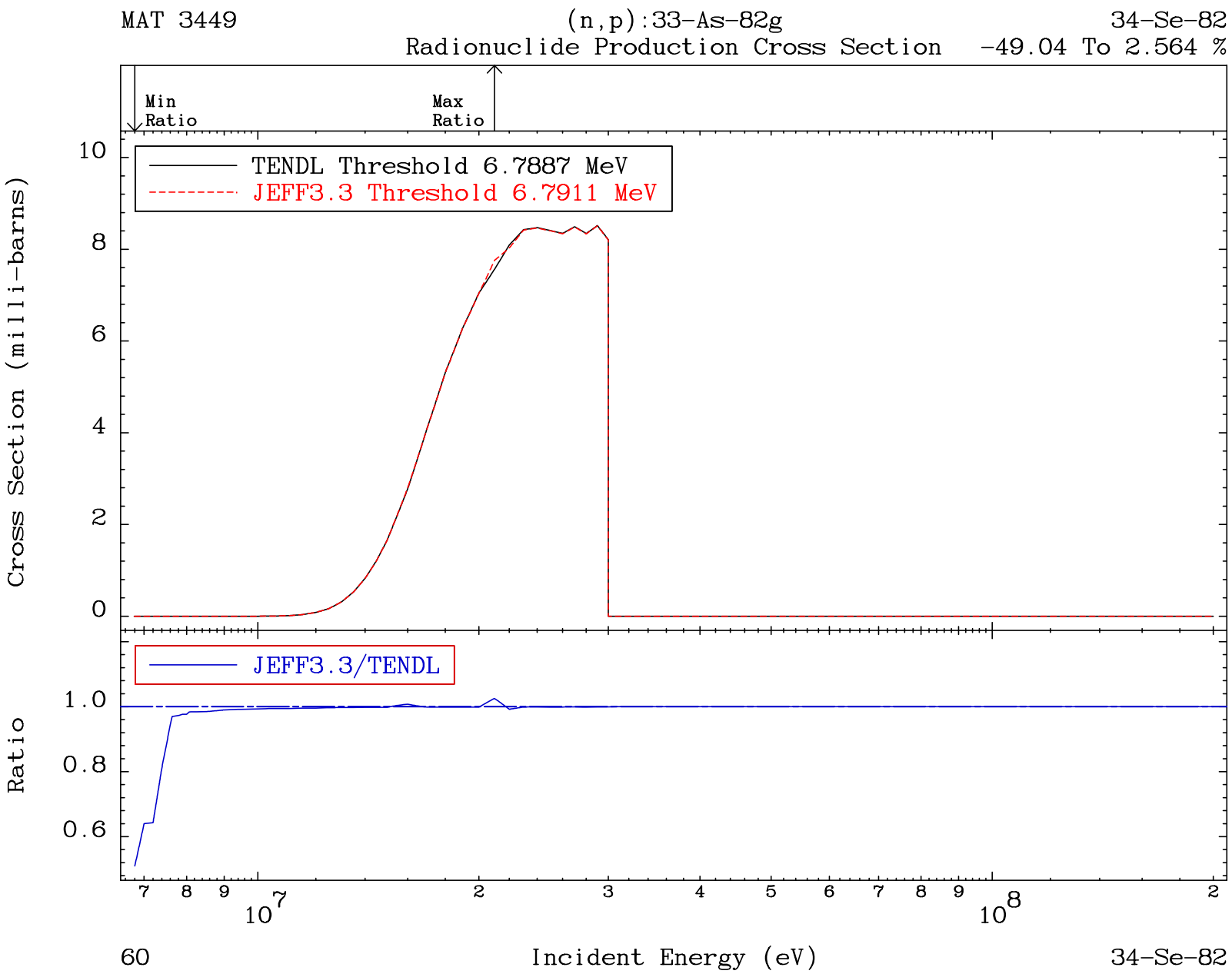

MAT 3449
(n,2n) α:32-Ge-77m1
34-Se-82
Radionuclide Production Cross Section 0.000 To 704.8 %
Max Ratio
Min Ratio
TENDL Threshold 17.247 MeV
JEFF3.3 Threshold 17.247 MeV
Cross Section (micro-barns)
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
8
4
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
34-Se-82

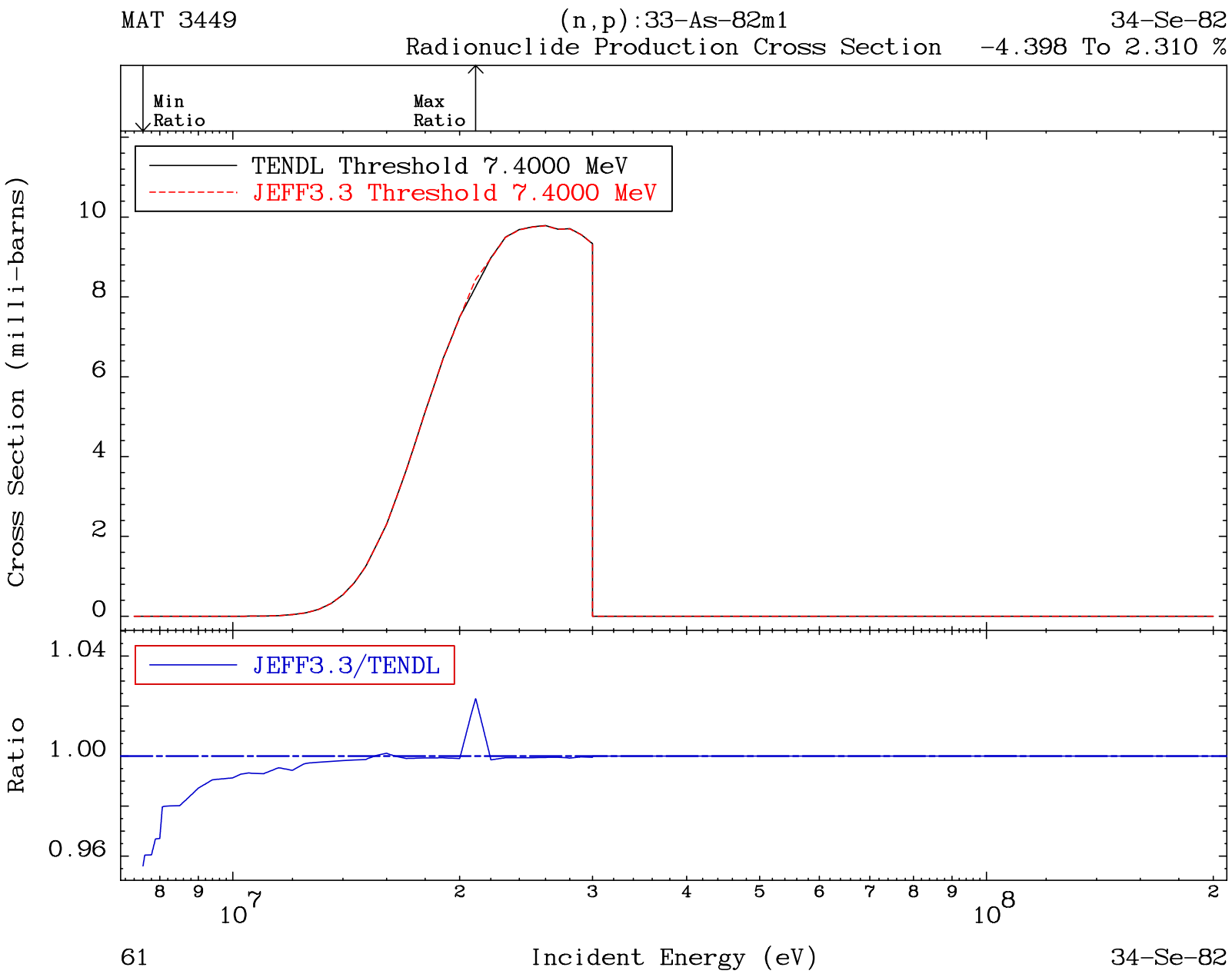

MAT 3449
(n,n') He-3:32-Ge-79g
34-Se-82
Radionuclide Production Cross Section
-0.455 To 0.000 %
Max
Ratio
TENDL Threshold 23.282 MeV
JEFF3.3 Threshold 23.282 MeV
Cross Section (10-9 barns)
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
56
Incident Energy (MeV)
34-Se-82

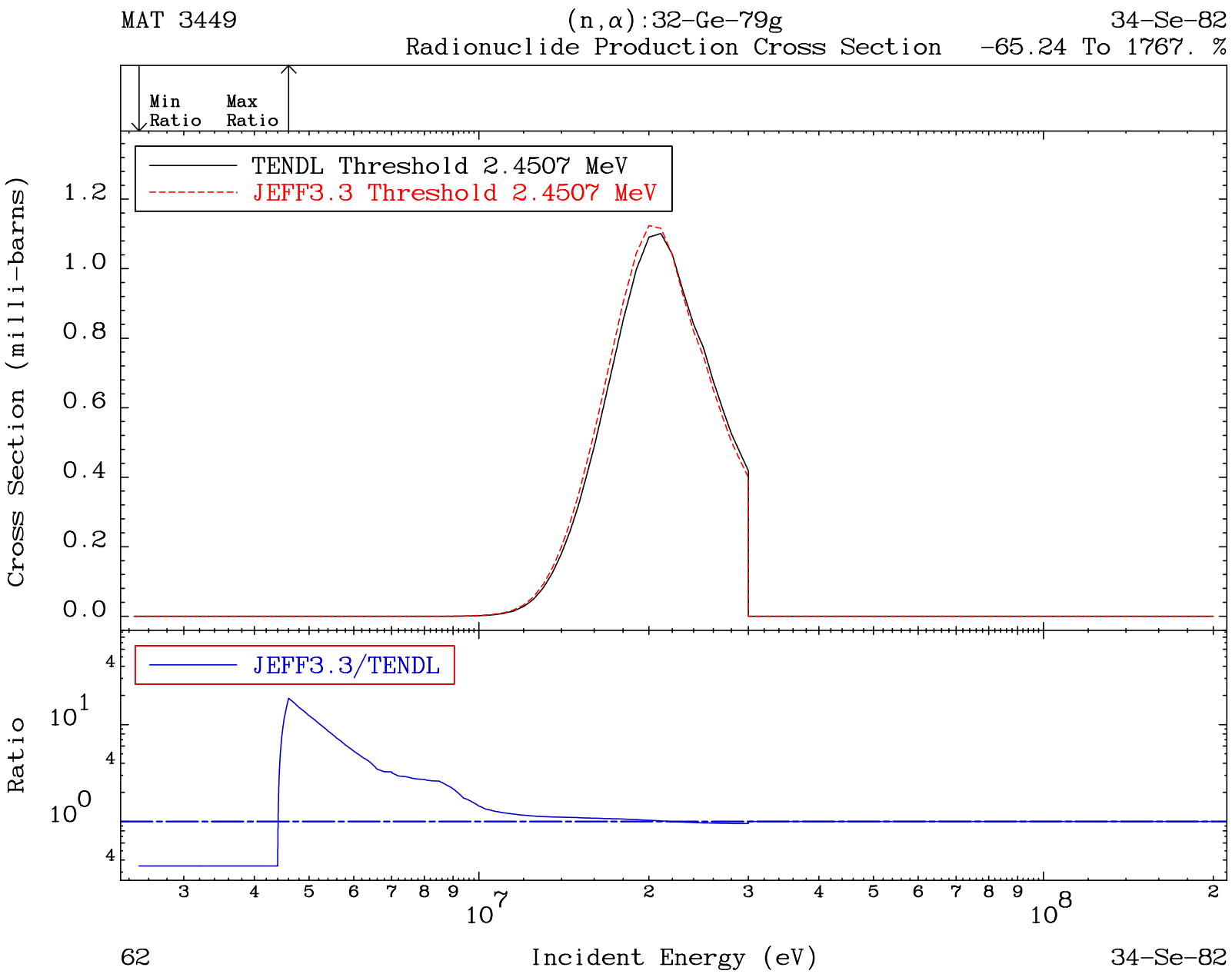

MAT 3449
(n,n') He-3:32-Ge-79m1
34-Se-82
Radionuclide Production Cross Section
-0.198 To 0.000 %
Max Ratio
TENDL Threshold 23.470 MeV
JEFF3.3 Threshold 23.470 MeV
Cross Section (10^{-9} barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
57
Incident Energy (MeV)
34-Se-82

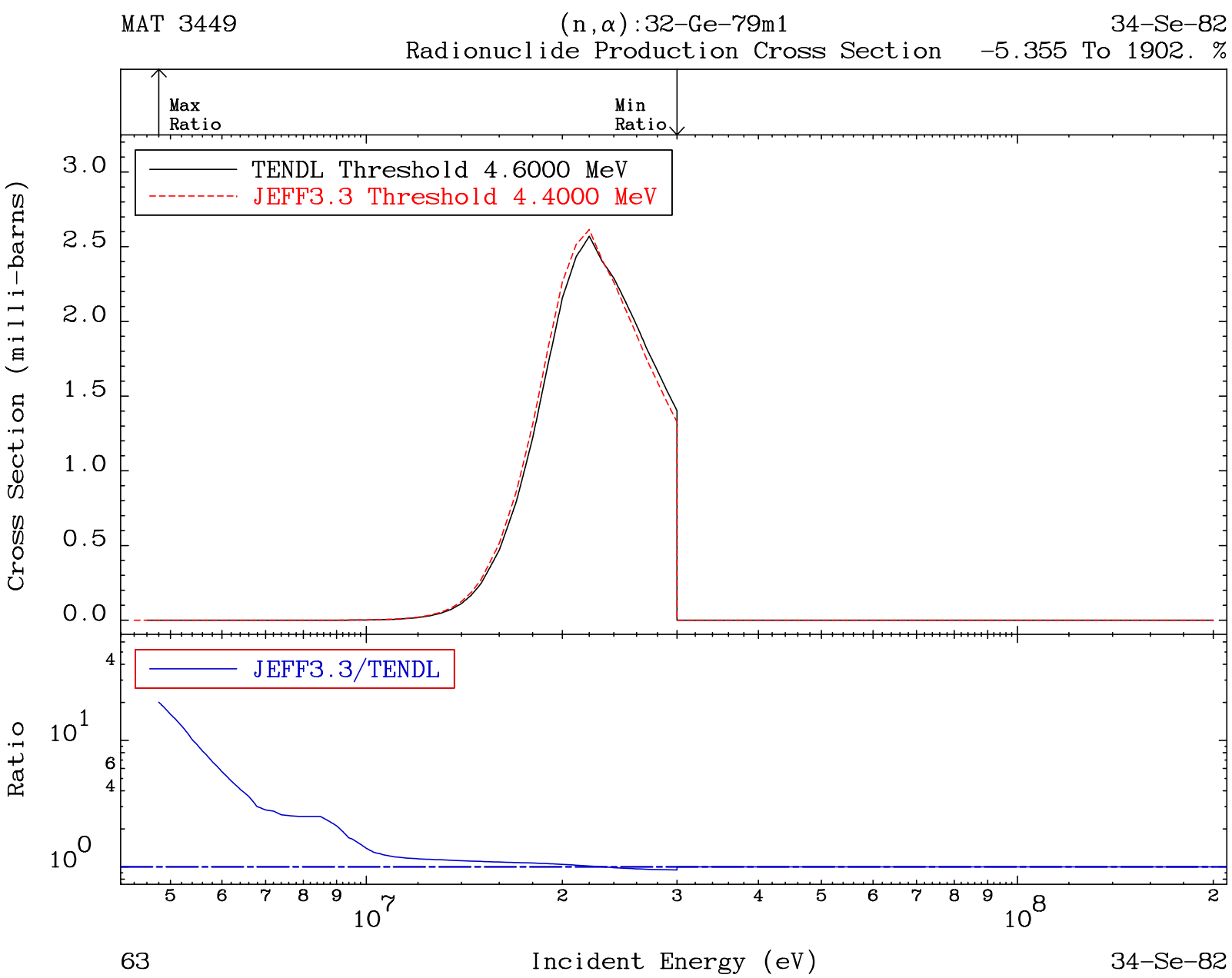

MAT 3449
(n,4n):34-Se-79g
34-Se-82
Radionuclide Production Cross Section
-0.358 To 0.000 %
Max
Ratio
TENDL Threshold 26.209 MeV
JEFF3.3 Threshold 26.209 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
40
60
80
100
120
140
160
180
200
58
Incident Energy (MeV)
34-Se-82

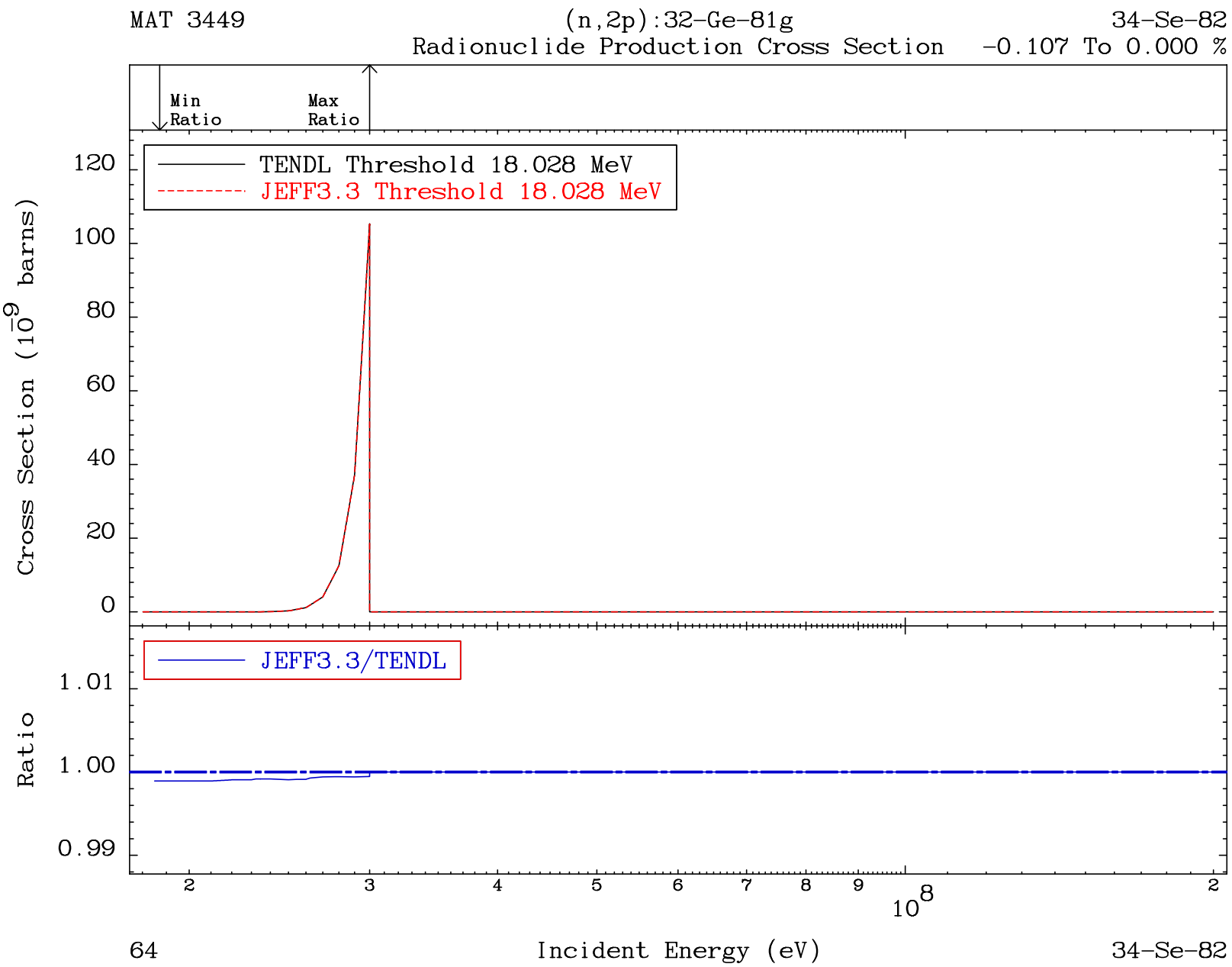

MAT 3449
(n,4n):34-Se-79m1
34-Se-82
Radionuclide Production Cross Section
-0.083 To 0.000 %
Max
Ratio
TENDL Threshold 26.306 MeV
JEFF3.3 Threshold 26.306 MeV
Cross Section (milli-barns)
0
1
2
3
4
5
JEFF3.3/TENDL
Ratio
0.99
1.00
1.01
40
60
80
100
120
140
160
180
200
59
Incident Energy (MeV)
34-Se-82

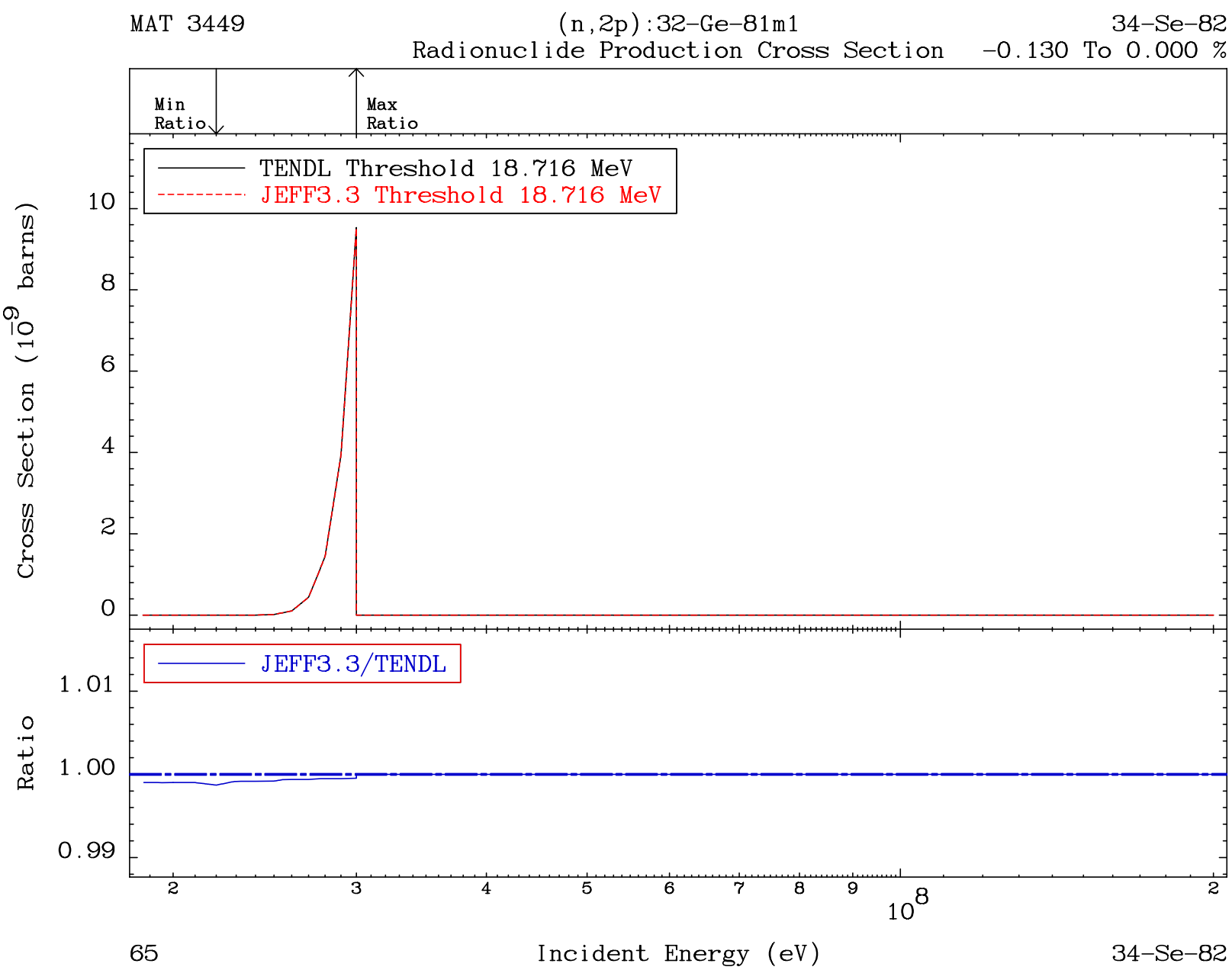

MAT 3449
(n,p):33-As-82g
34-Se-82
Radionuclide Production Cross Section
-49.04 To 2.564 %
Min Ratio
Max Ratio
TENDL Threshold 6.7887 MeV
JEFF3.3 Threshold 6.7911 MeV
Cross Section (milli-barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
60
34-Se-82


MAT 3449
(n,p):33-As-82m1
34-Se-82
Radionuclide Production Cross Section -4.398 To 2.310 %
Min Ratio
Max Ratio
TENDL Threshold 7.4000 MeV
JEFF3.3 Threshold 7.4000 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
JEFF3.3/TENDL
Ratio
0.96
1.00
1.04
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
61
Incident Energy (eV)
34-Se-82


MAT 3449
(n,α):32-Ge-79g
34-Se-82
Radionuclide Production Cross Section -65.24 To 1767. %
Min Ratio
Max Ratio
TENDL Threshold 2.4507 MeV
JEFF3.3 Threshold 2.4507 MeV
Cross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
10^1
10^0
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
62
Incident Energy (eV)
34-Se-82


MAT 3449
(n,α):32-Ge-79m1
34-Se-82
Radionuclide Production Cross Section -5.355 To 1902. %
Max Ratio
Min Ratio
TENDL Threshold 4.6000 MeV
JEFF3.3 Threshold 4.4000 MeV
Cross Section (milli-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
JEFF3.3/TENDL
Ratio
4
10^1
6
4
10^0
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
63
Incident Energy (eV)
34-Se-82


MAT 3449
(n,2p):32-Ge-81g
34-Se-82
Radionuclide Production Cross Section
-0.107 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.028 MeV
JEFF3.3 Threshold 18.028 MeV
Cross Section (10^{-9} barns)
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
2
10^8
64
Incident Energy (eV)
34-Se-82


MAT 3449
(n,2p):32-Ge-81m1
34-Se-82
Radionuclide Production Cross Section
-0.130 To 0.000 %
Min Ratio
Max Ratio
TENDL Threshold 18.716 MeV
JEFF3.3 Threshold 18.716 MeV
Cross Section (10^{-9} barns)
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2
3
4
5
6
7
8
9
10^{8}
2
65
Incident Energy (eV)
34-Se-82