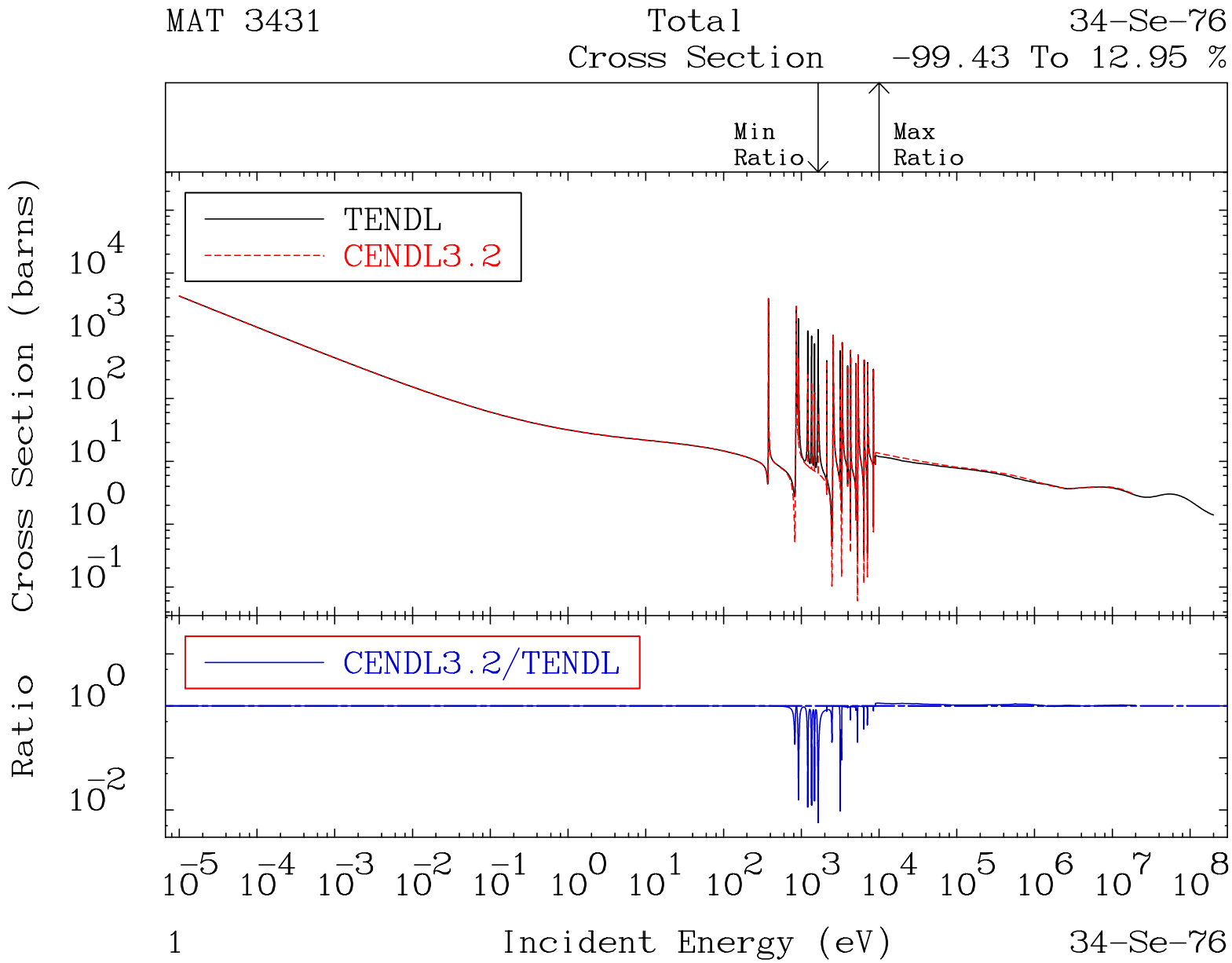
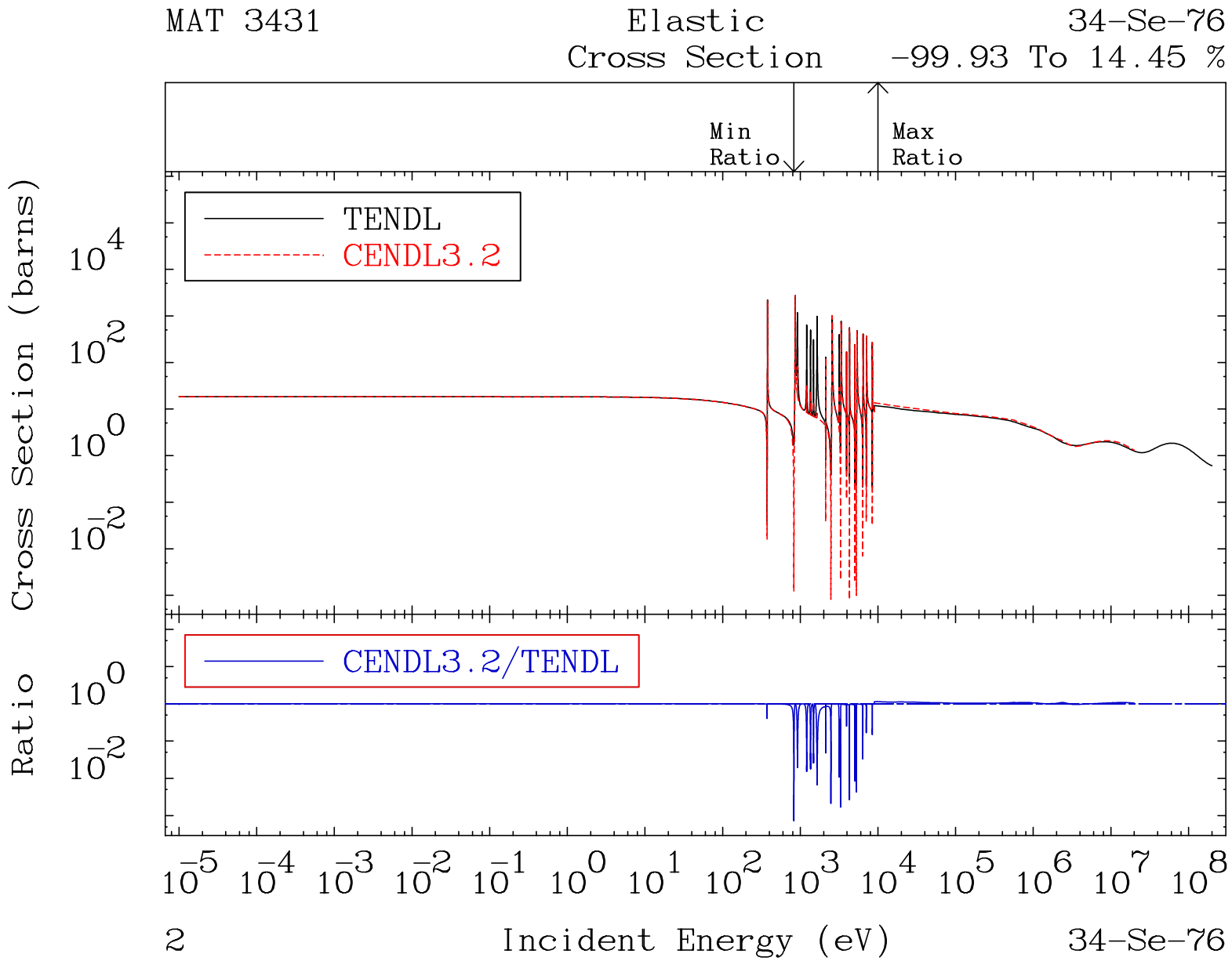
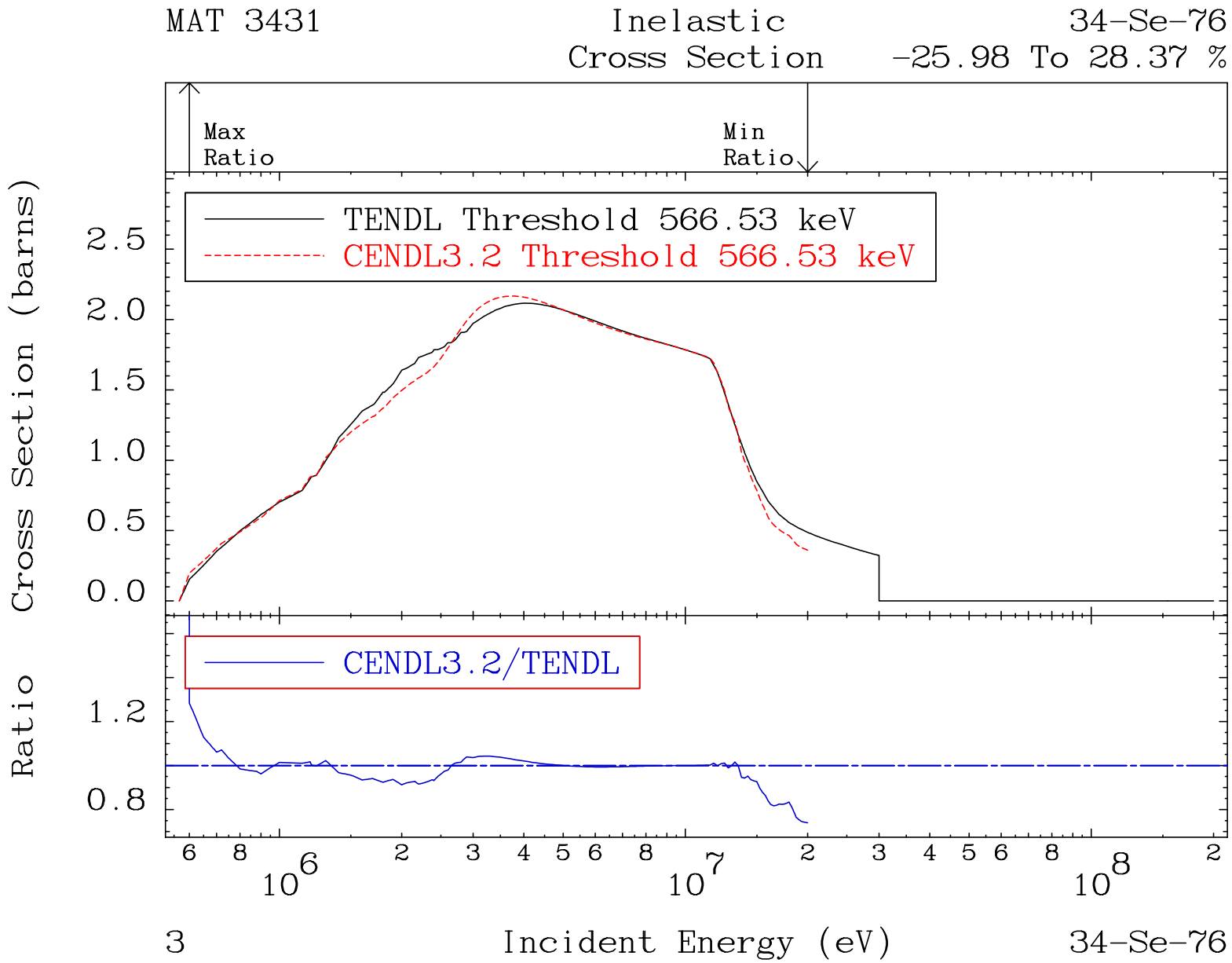
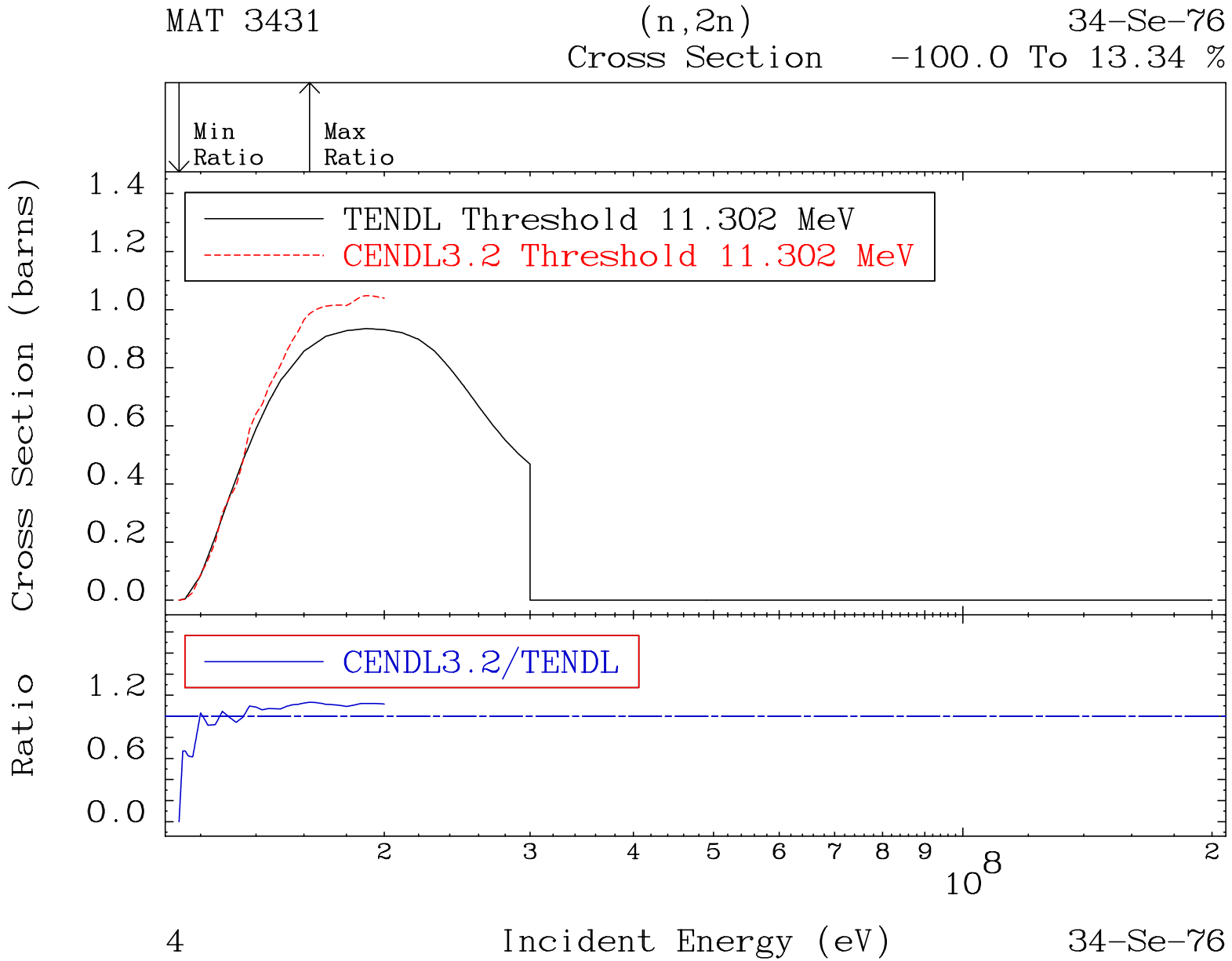
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

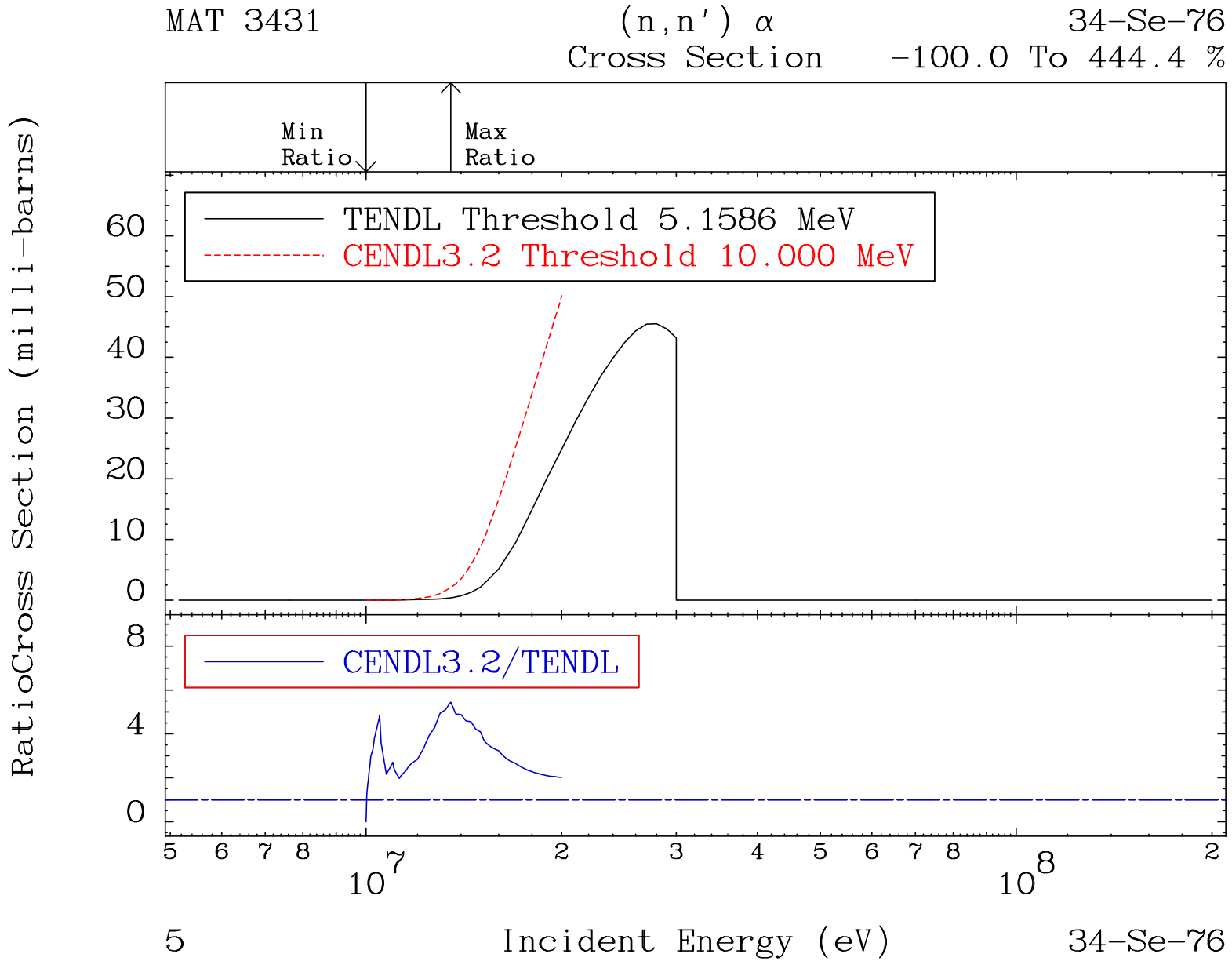
Press Mouse Button to Start

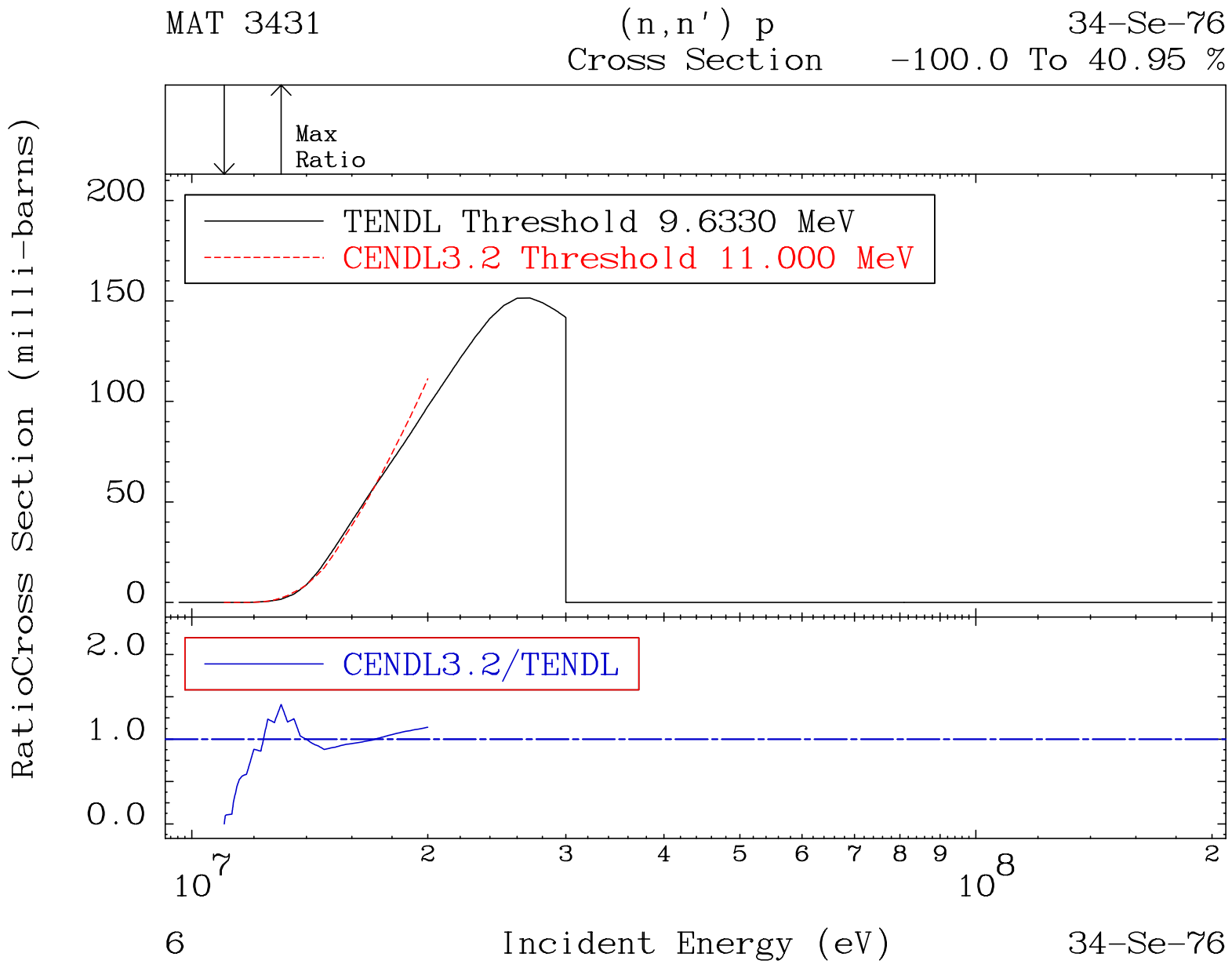

MAT 3431
Total
Cross Section
34-Se-76
-99.43 To 12.95 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
34-Se-76

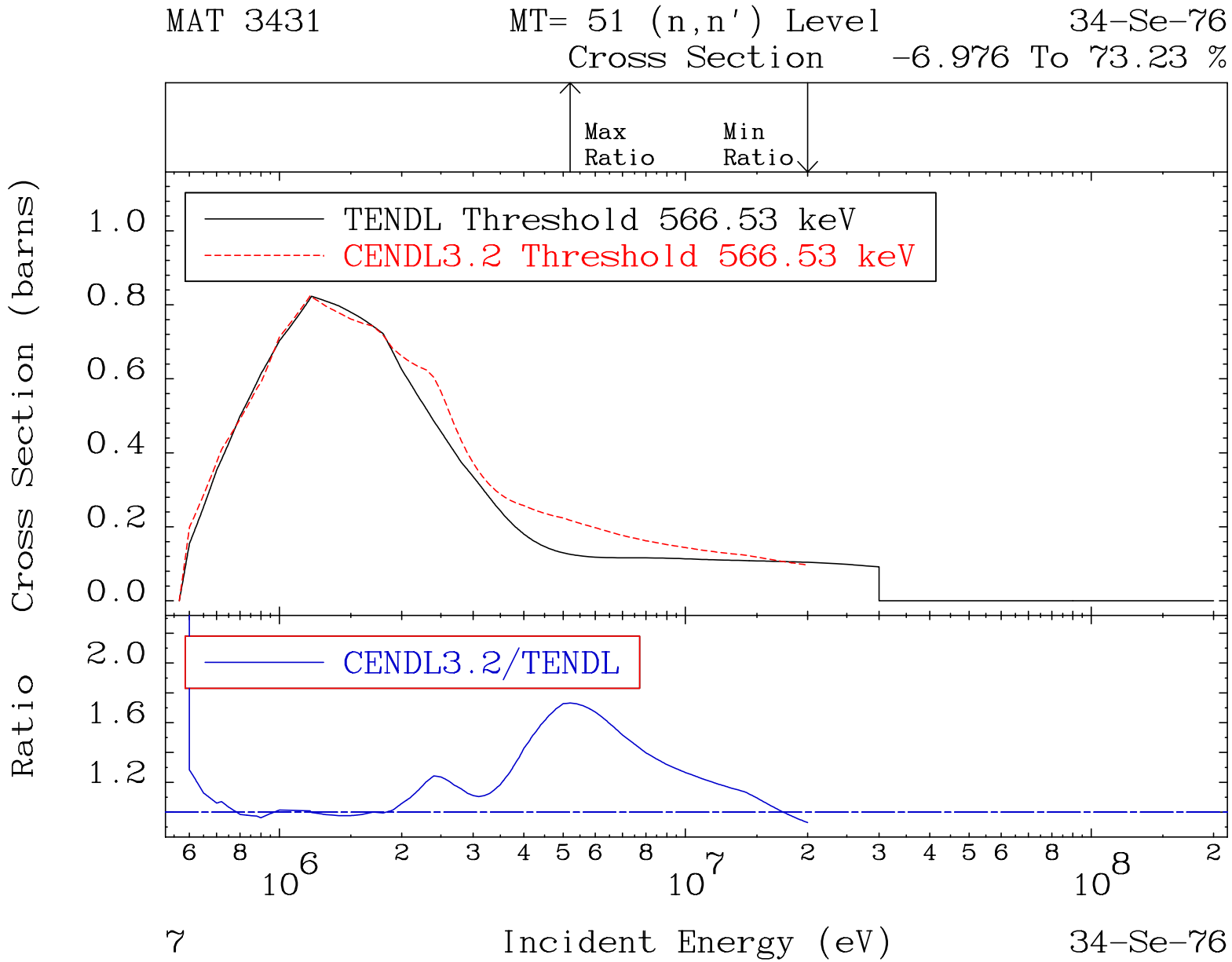

MAT 3431
Elastic
Cross Section
34-Se-76
-99.93 To 14.45 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
34-Se-76

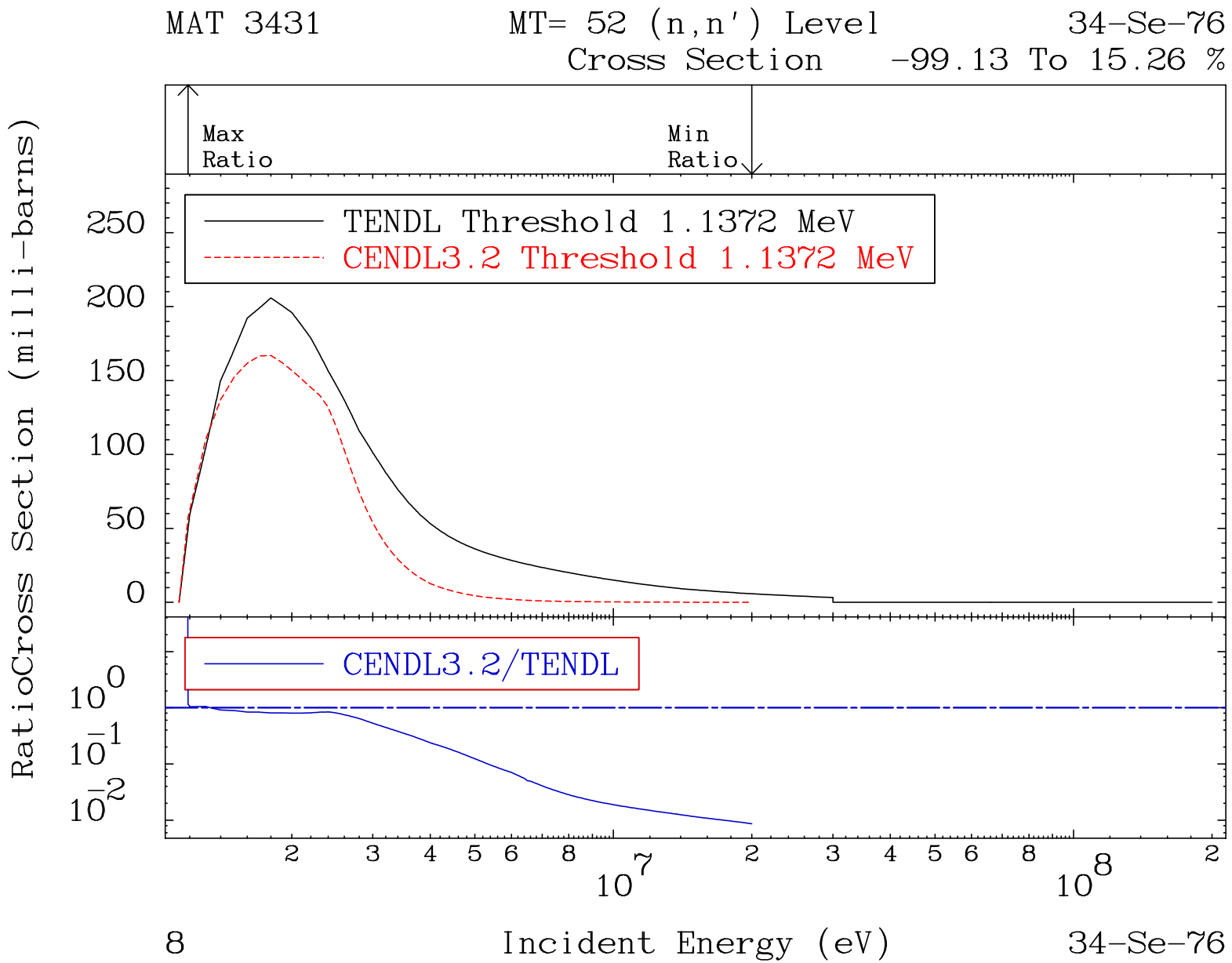

MAT 3431
Inelastic
Cross Section
34-Se-76
-25.98 To 28.37 %
Max
Ratio
Min
Ratio
TENDL Threshold 566.53 keV
CENDL3.2 Threshold 566.53 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
1.2
0.8
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
3
Incident Energy (eV)
34-Se-76

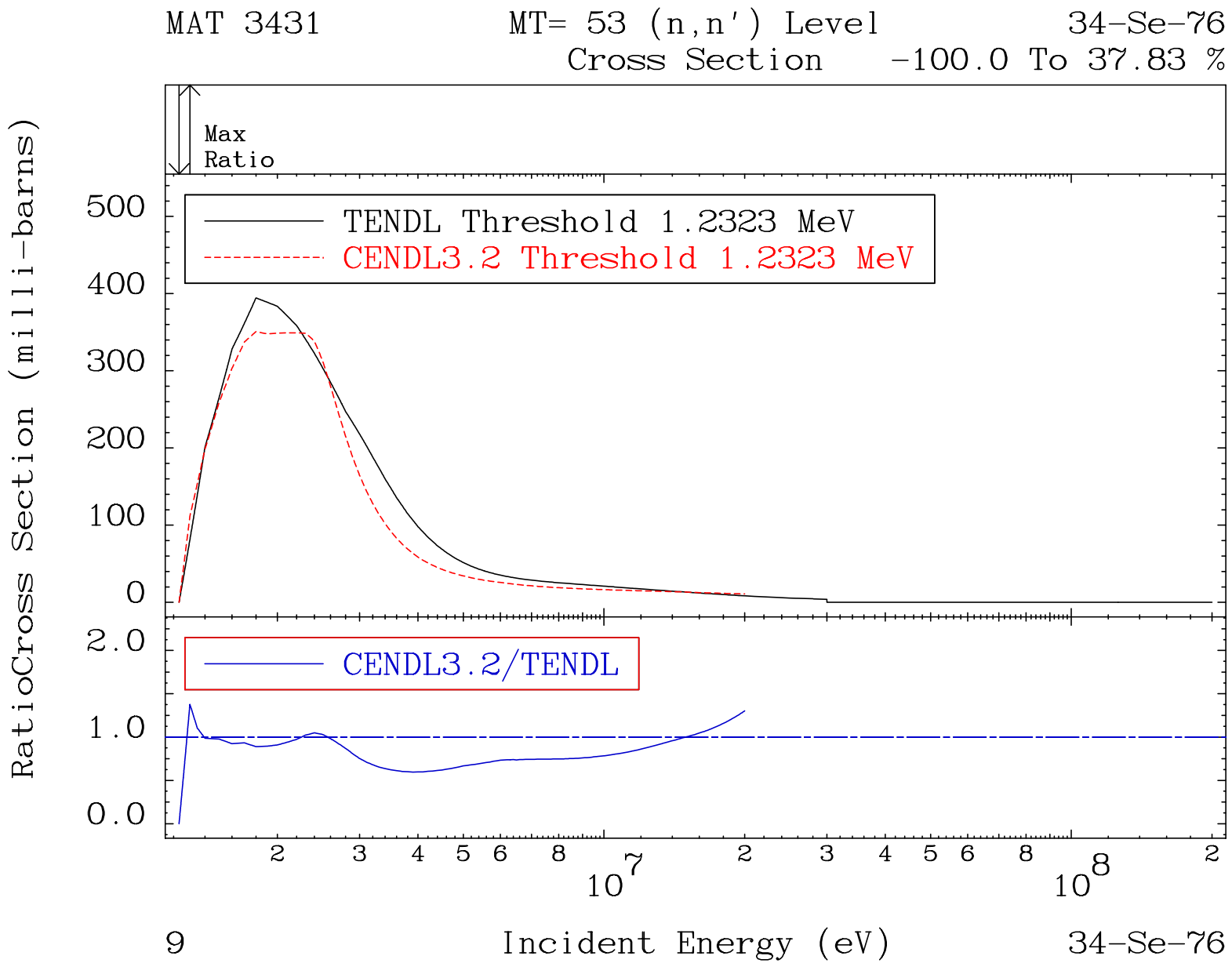

MAT 3431
(n,2n)
Cross Section
34-Se-76
-100.0 To 13.34 %
Min Ratio
Max Ratio
TENDL Threshold 11.302 MeV
CENDL3.2 Threshold 11.302 MeV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2
3
4
5
6
7
8
9
2
10^8
Incident Energy (eV)
4
34-Se-76

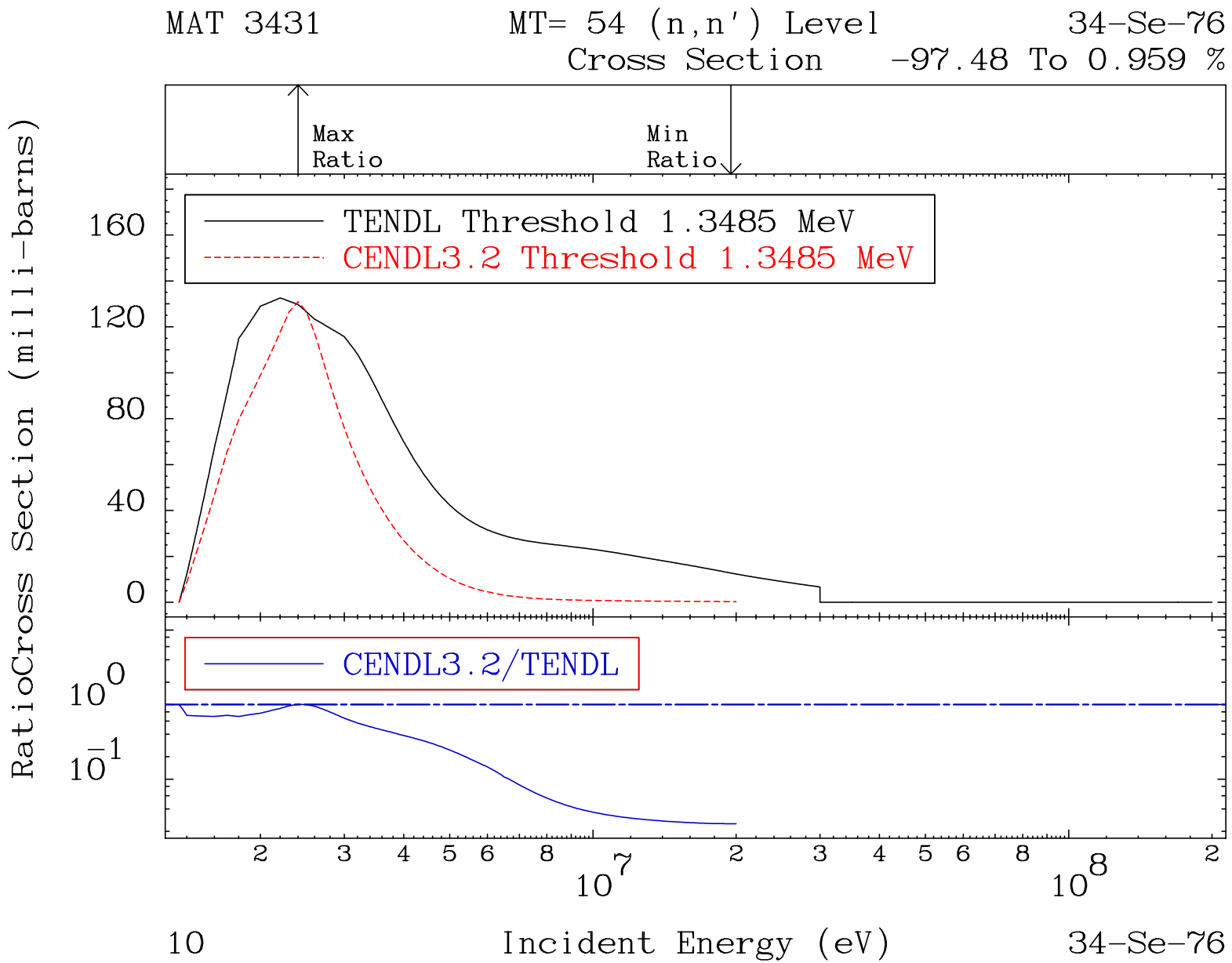

MAT 3431
(n,n') α
Cross Section
34-Se-76
-100.0 To 444.4 %
Min Ratio
Max Ratio
TENDL Threshold 5.1586 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
8
4
0
5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
5
Incident Energy (eV)
34-Se-76

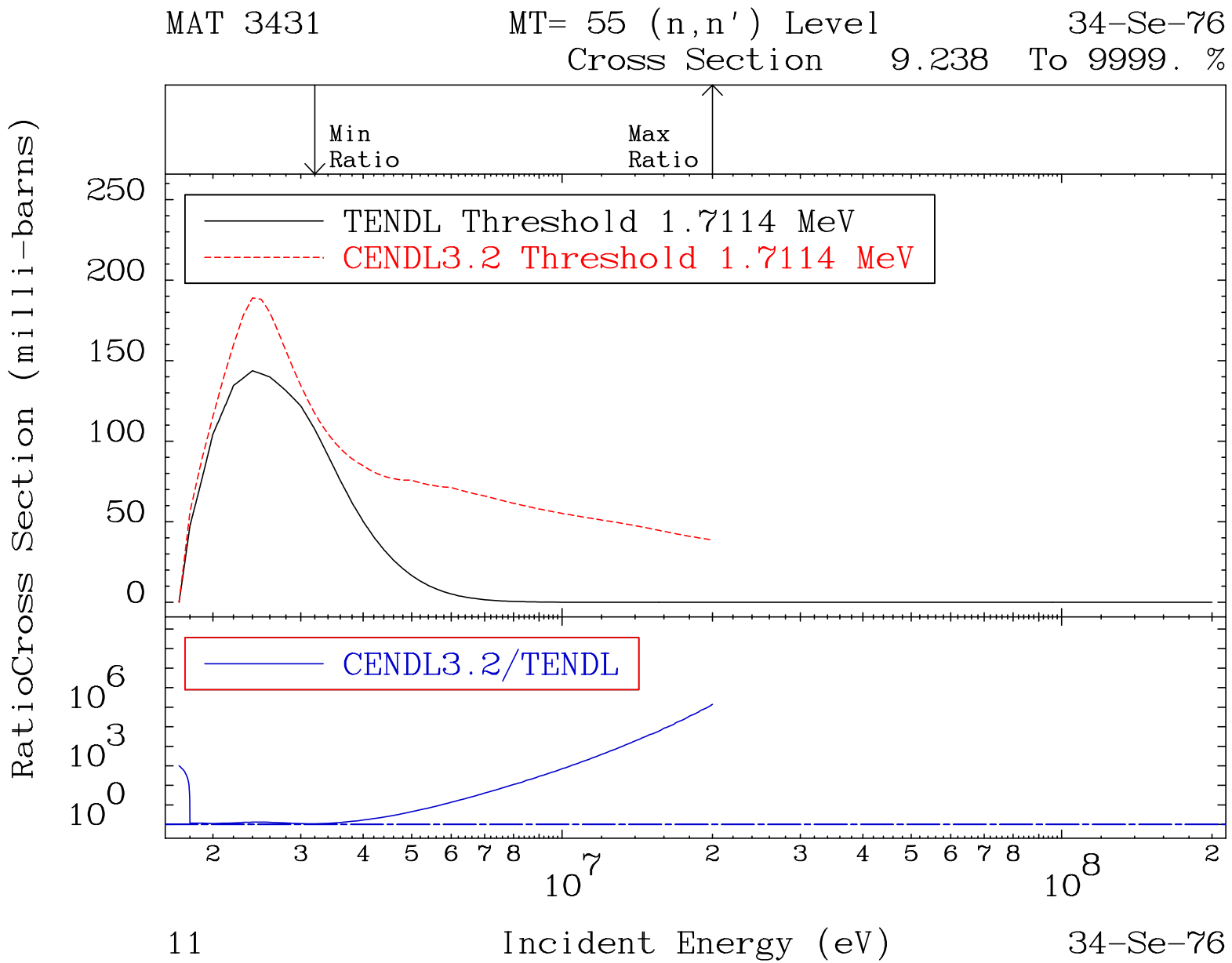

MAT 3431
(n,n') p
Cross Section
34-Se-76
-100.0 To 40.95 %
Max
Ratio
TENDL Threshold 9.6330 MeV
CENDL3.2 Threshold 11.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
2.0
1.0
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
6
Incident Energy (eV)
34-Se-76

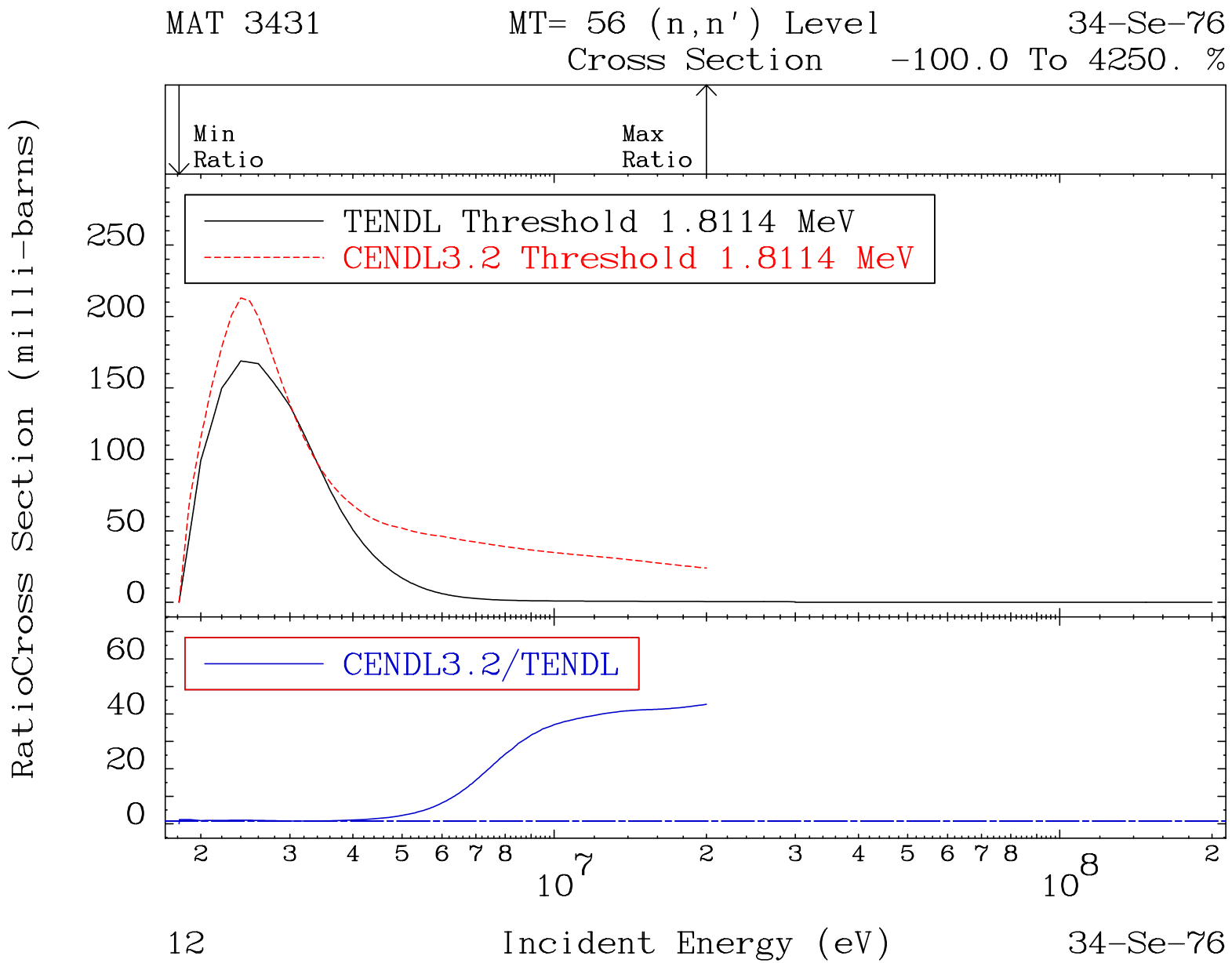

MAT 3431
MT= 51 (n,n') Level
34-Se-76
Cross Section
-6.976 To 73.23 %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
CENDL3.2 Threshold 566.53 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34-Se-76

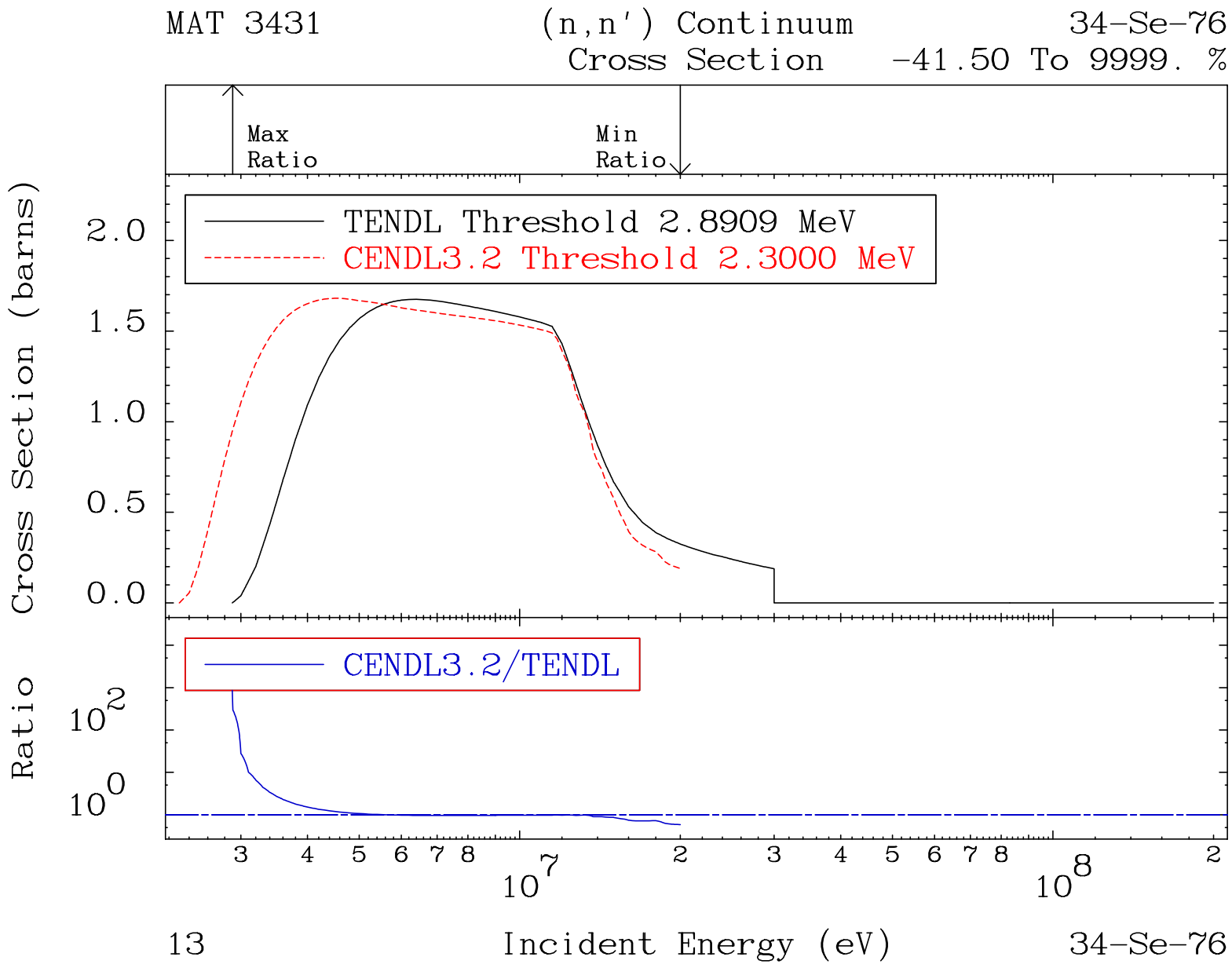

MAT 3431
MT= 52 (n,n') Level
34-Se-76
Cross Section -99.13 To 15.26 %
Max Ratio
Min Ratio
TENDL Threshold 1.1372 MeV
CENDL3.2 Threshold 1.1372 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^0
10^-1
10^-2
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
8
Incident Energy (eV)
34-Se-76

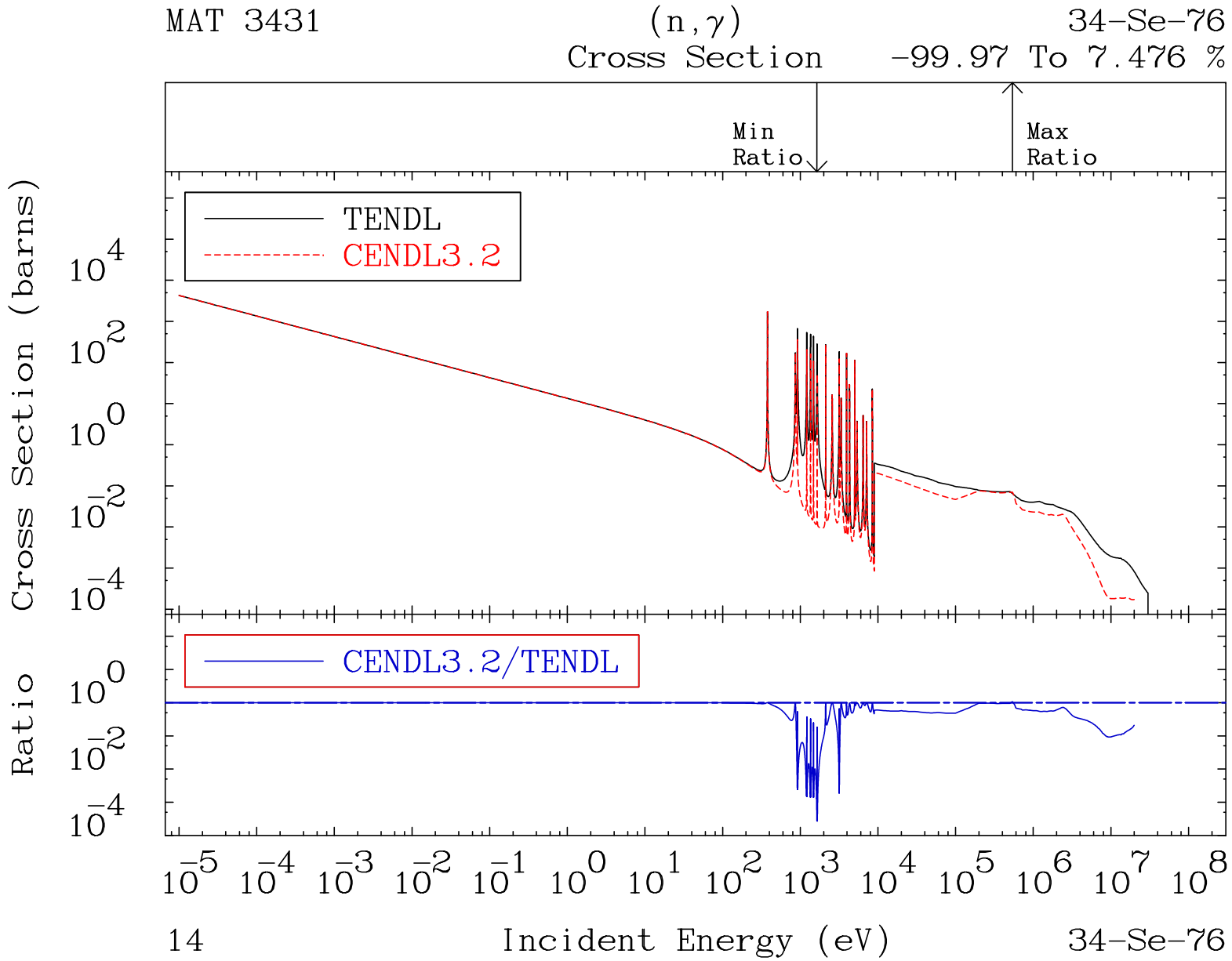

MAT 3431
MT= 53 (n,n') Level
34-Se-76
Cross Section
-100.0 To 37.83 %
Max
Ratio
TENDL Threshold 1.2323 MeV
CENDL3.2 Threshold 1.2323 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
2.0
1.0
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
9
Incident Energy (eV)
34-Se-76

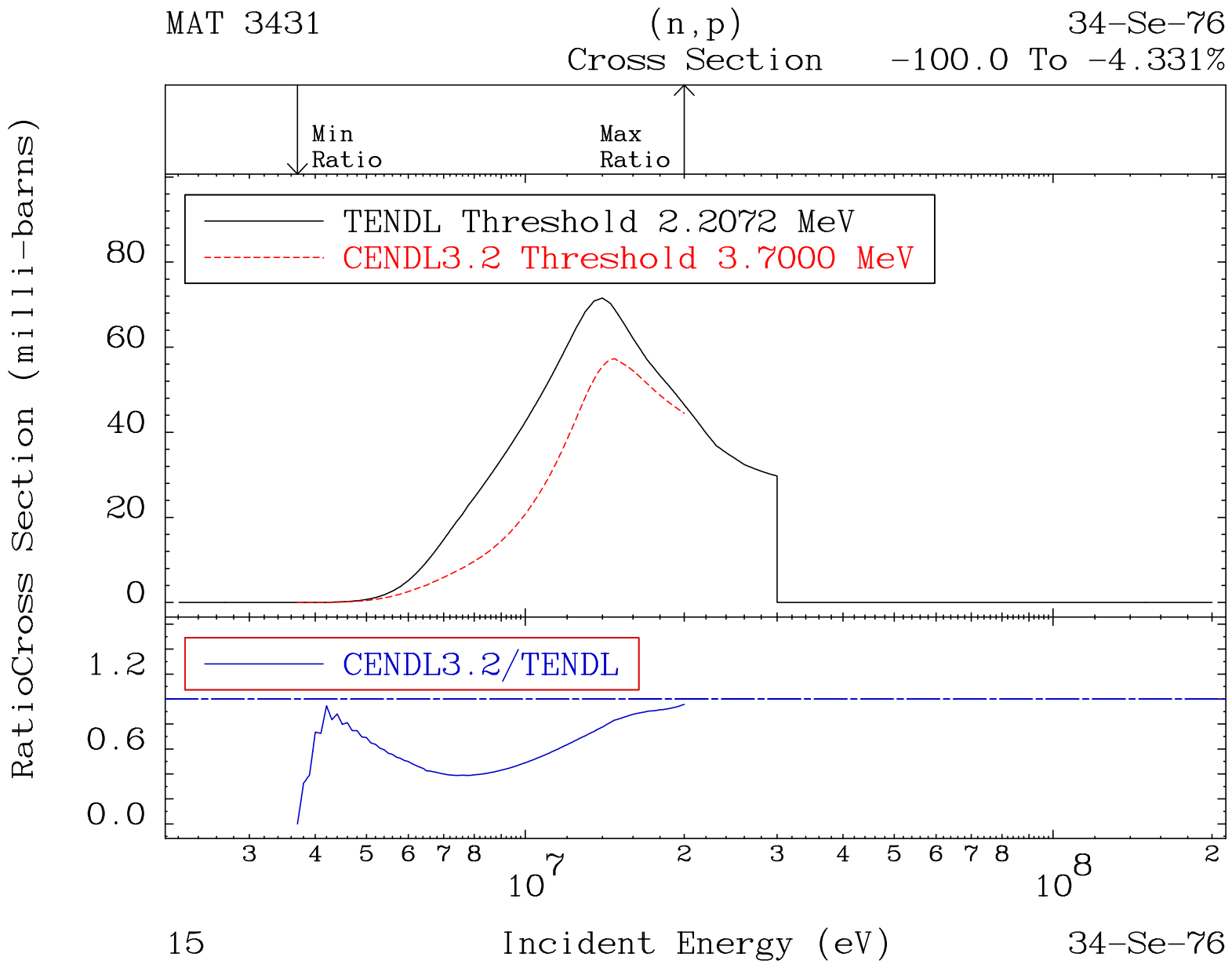

MAT 3431
MT= 54 (n,n') Level
34-Se-76
Cross Section
-97.48 To 0.959 %
Max Ratio
Min Ratio
TENDL Threshold 1.3485 MeV
CENDL3.2 Threshold 1.3485 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^{0}
10^{-1}
2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
10
Incident Energy (eV)
34-Se-76

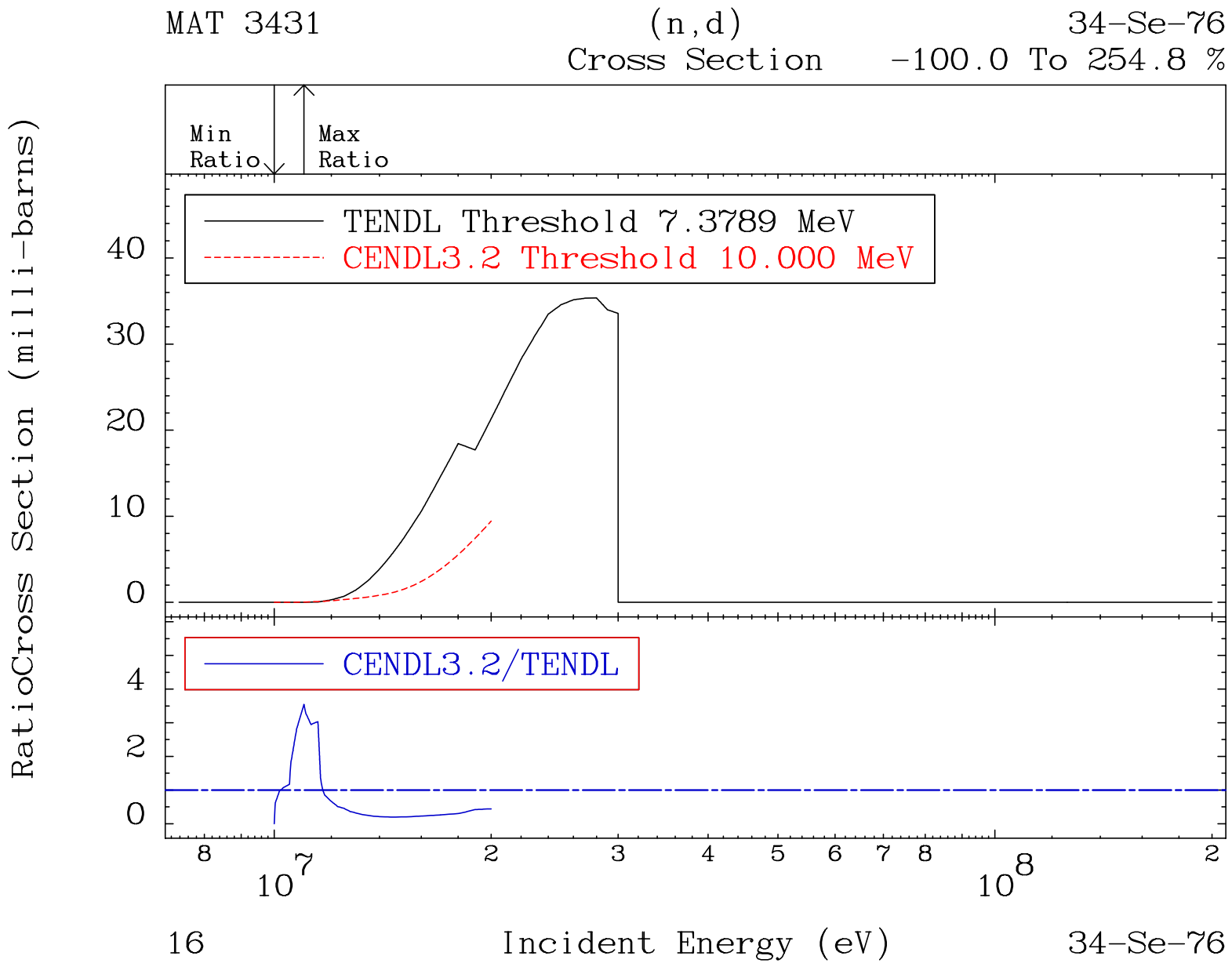

MAT 3431
MT= 55 (n,n') Level
34-Se-76
Cross Section 9.238 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.7114 MeV
CENDL3.2 Threshold 1.7114 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^6
10^3
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
34-Se-76

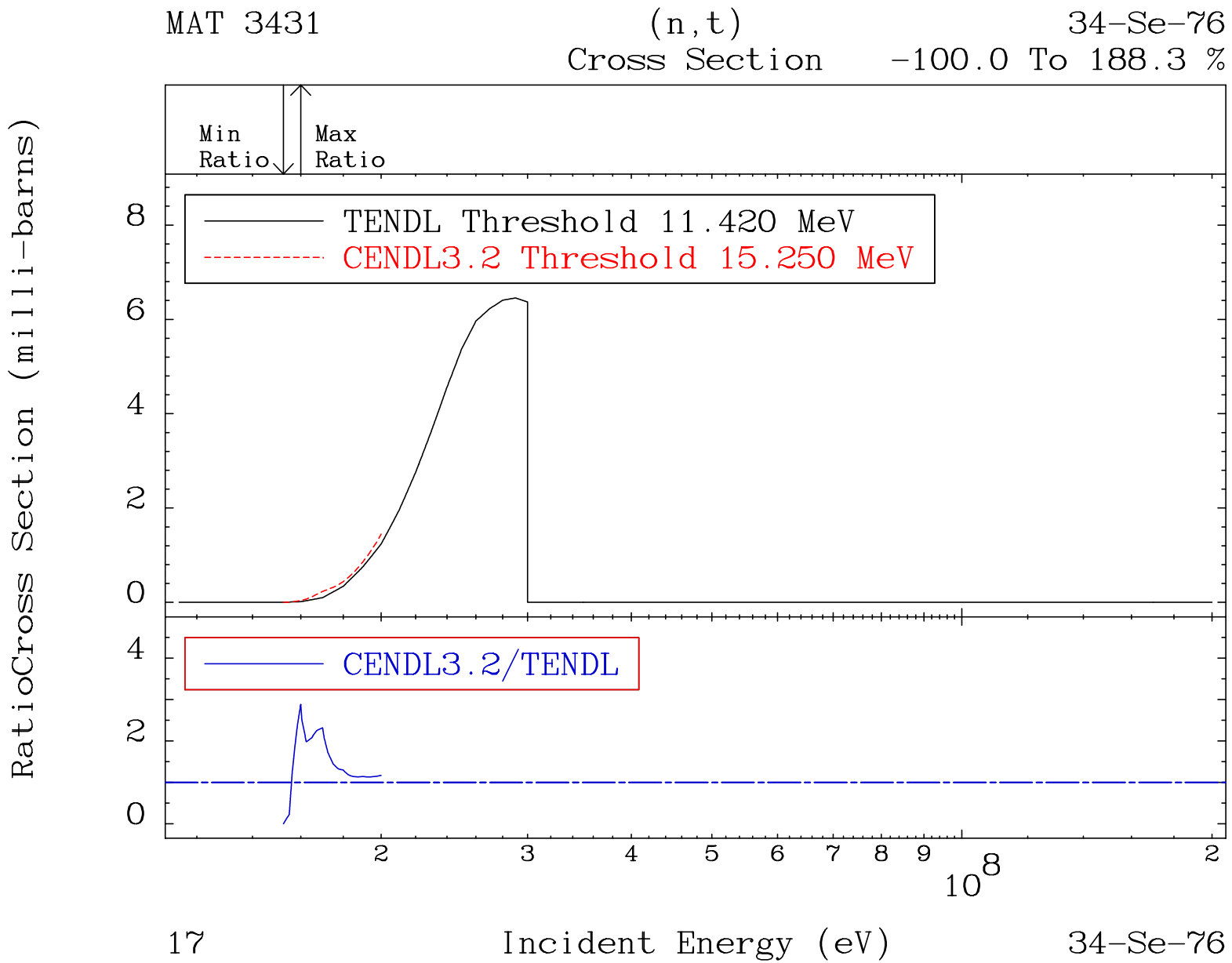

MAT 3431
MT= 56 (n,n') Level
34-Se-76
Cross Section -100.0 To 4250. %
Min Ratio
Max Ratio
TENDL Threshold 1.8114 MeV
CENDL3.2 Threshold 1.8114 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
60
40
20
0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
34-Se-76

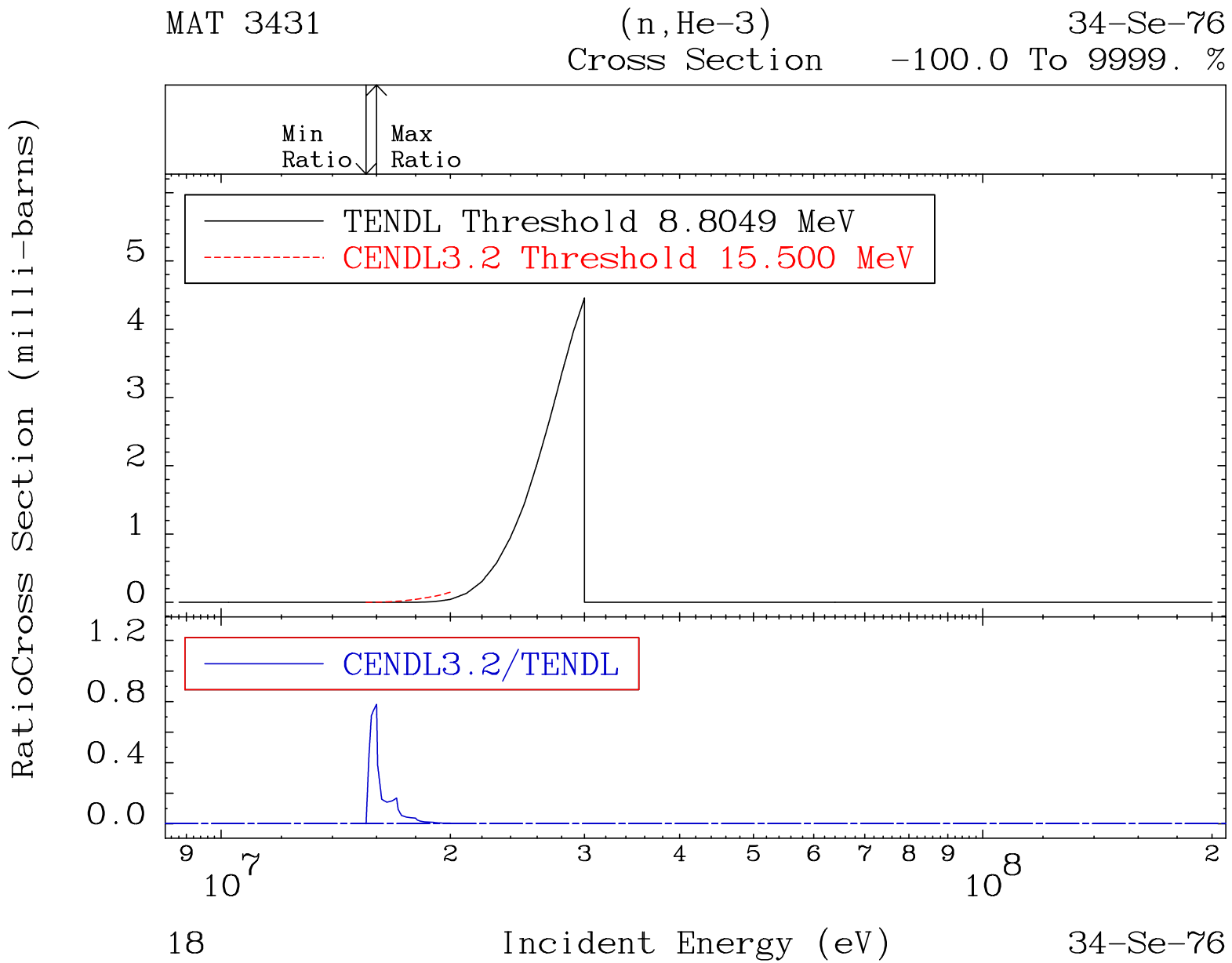

MAT 3431
(n,n') Continuum
Cross Section
34-Se-76
-41.50 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 2.8909 MeV
CENDL3.2 Threshold 2.3000 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
CENDL3.2/TENDL
Ratio
10^2
10^0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
34-Se-76

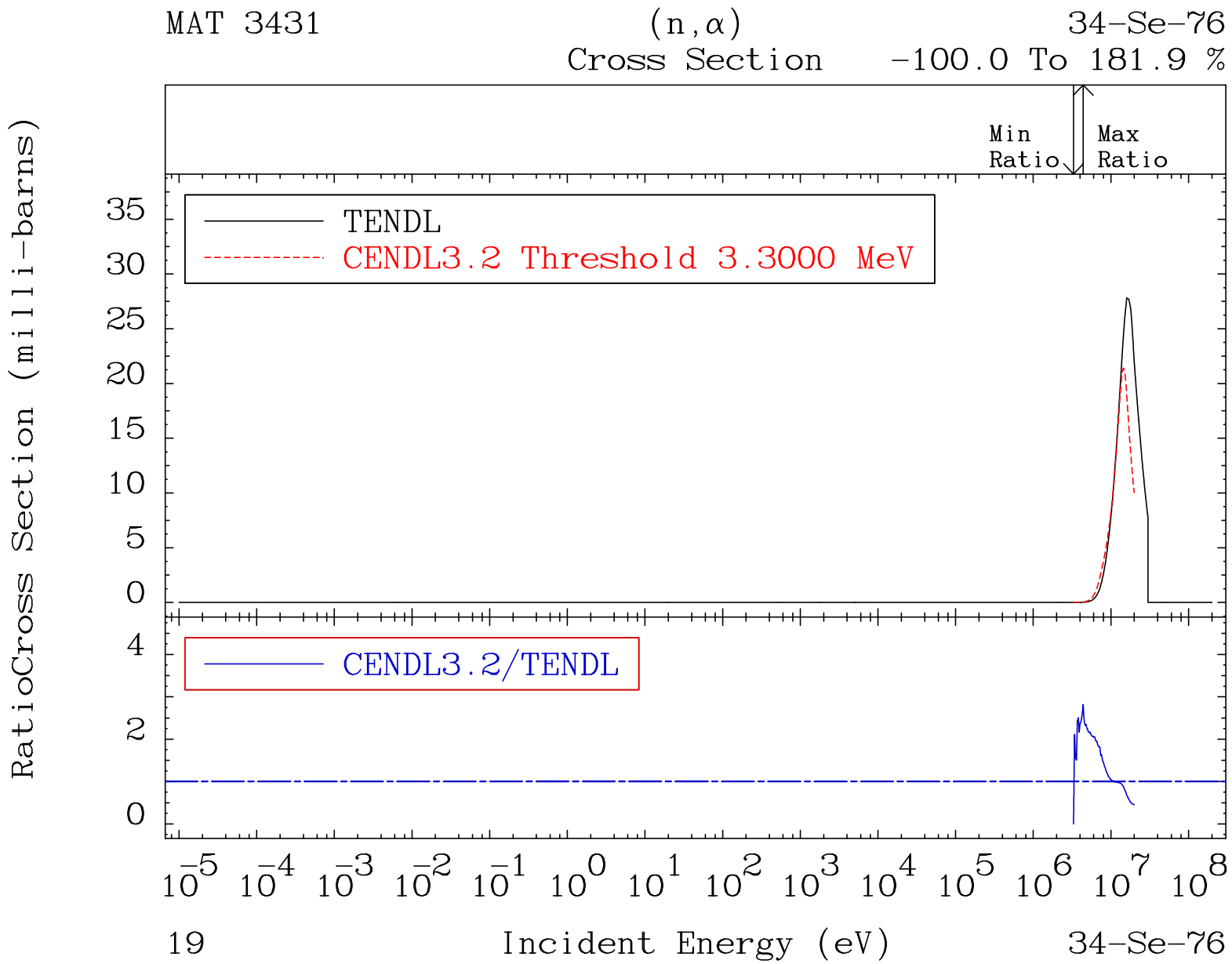

MAT 3431
(n,γ)
Cross Section
34-Se-76
-99.97 To 7.476 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
14
34-Se-76

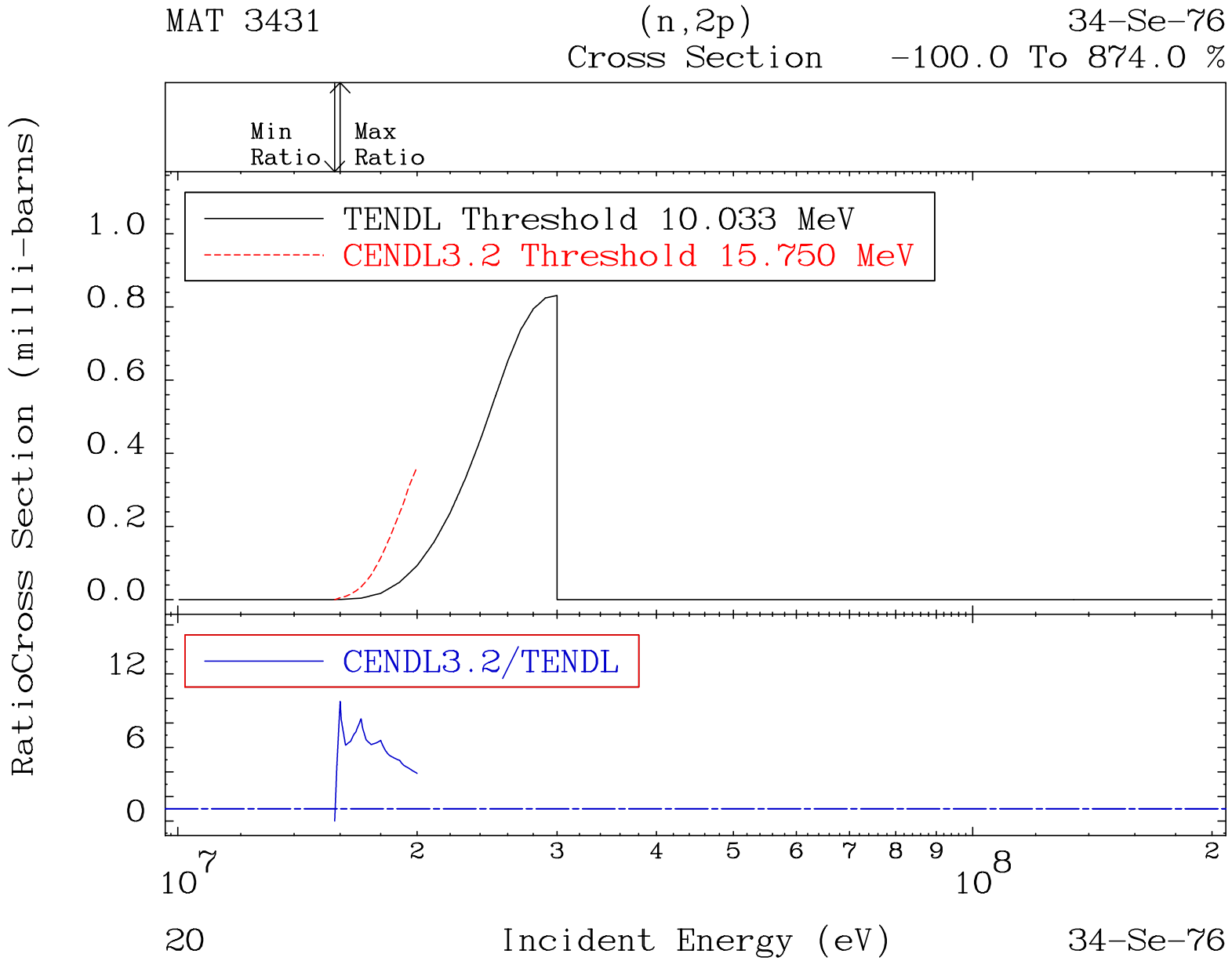

MAT 3431
(n,p)
Cross Section
34-Se-76
-100.0 To -4.331%
Min Ratio
Max Ratio
TENDL Threshold 2.2072 MeV
CENDL3.2 Threshold 3.7000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
15
Incident Energy (eV)
34-Se-76

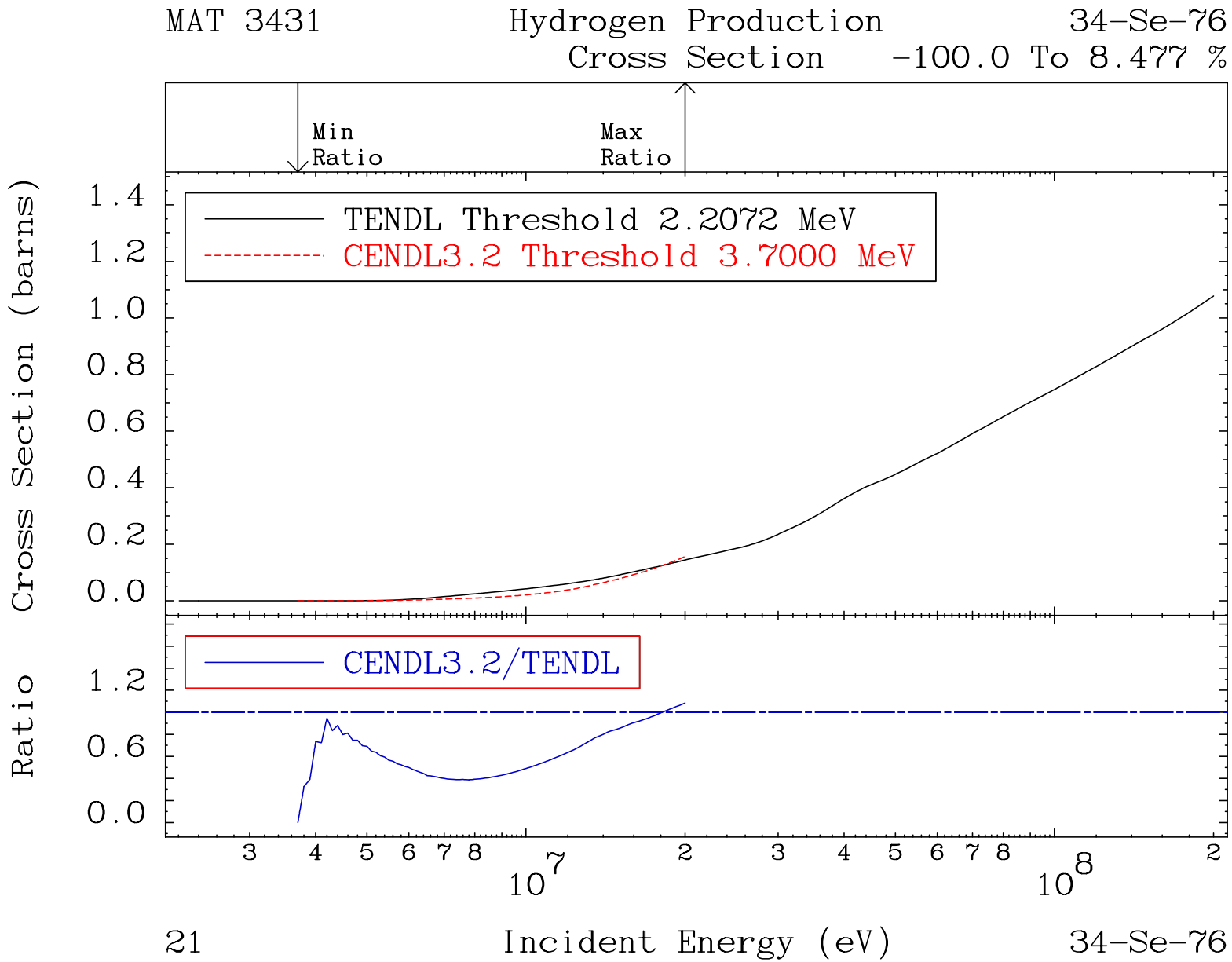

MAT 3431
(n,d)
34-Se-76
Cross Section
-100.0 To 254.8 %
Min Ratio
Max Ratio
TENDL Threshold 7.3789 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
8
2
3
4
5
6
7
8
2
10^7
10^8
16
Incident Energy (eV)
34-Se-76

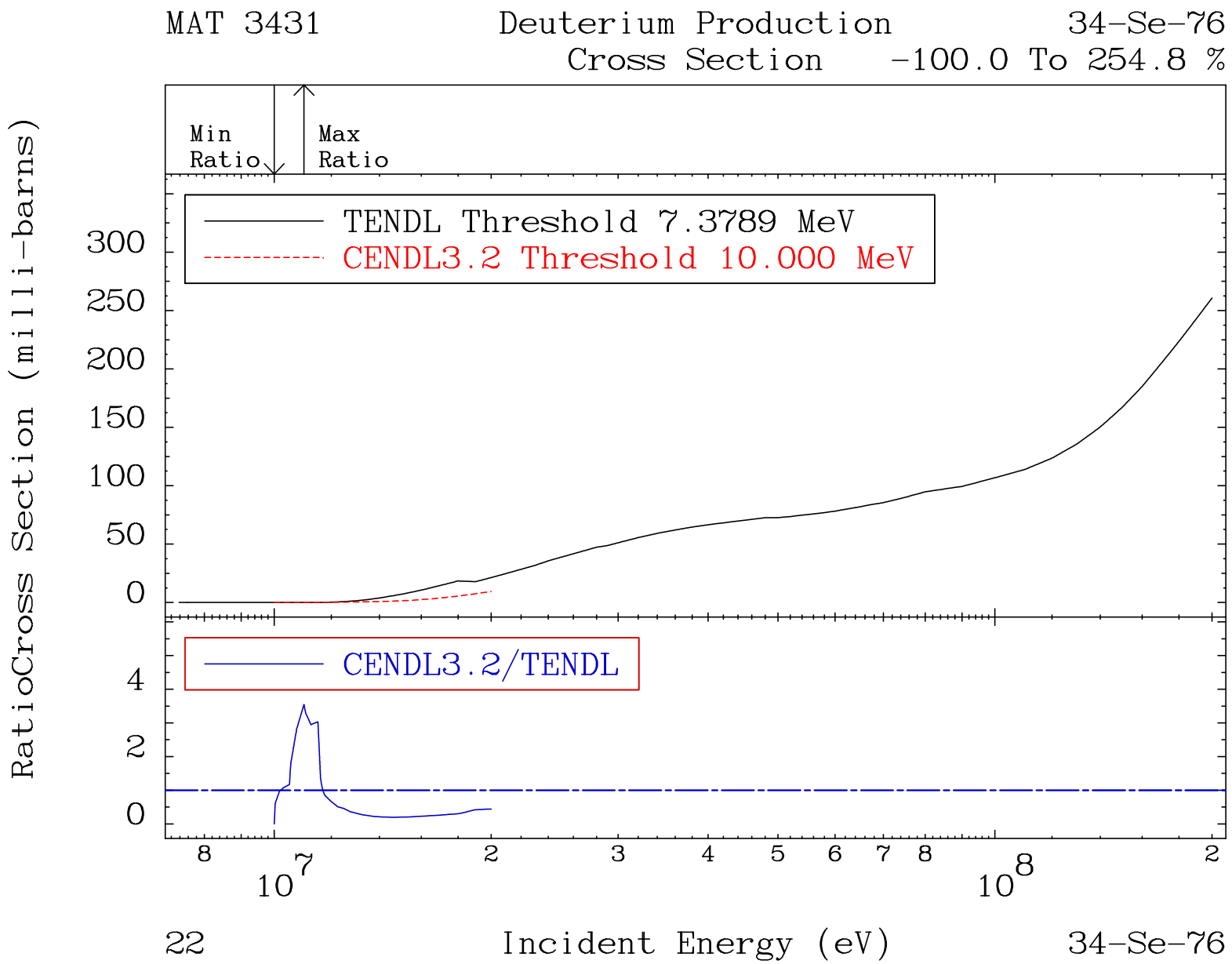

MAT 3431
(n,t)
34-Se-76
Cross Section
-100.0 To 188.3 %
Min Ratio
Max Ratio
TENDL Threshold 11.420 MeV
CENDL3.2 Threshold 15.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
2
4
6
8
0
2
4
2
3
4
5
6
7
8
9
10^8
2
17
Incident Energy (eV)
34-Se-76

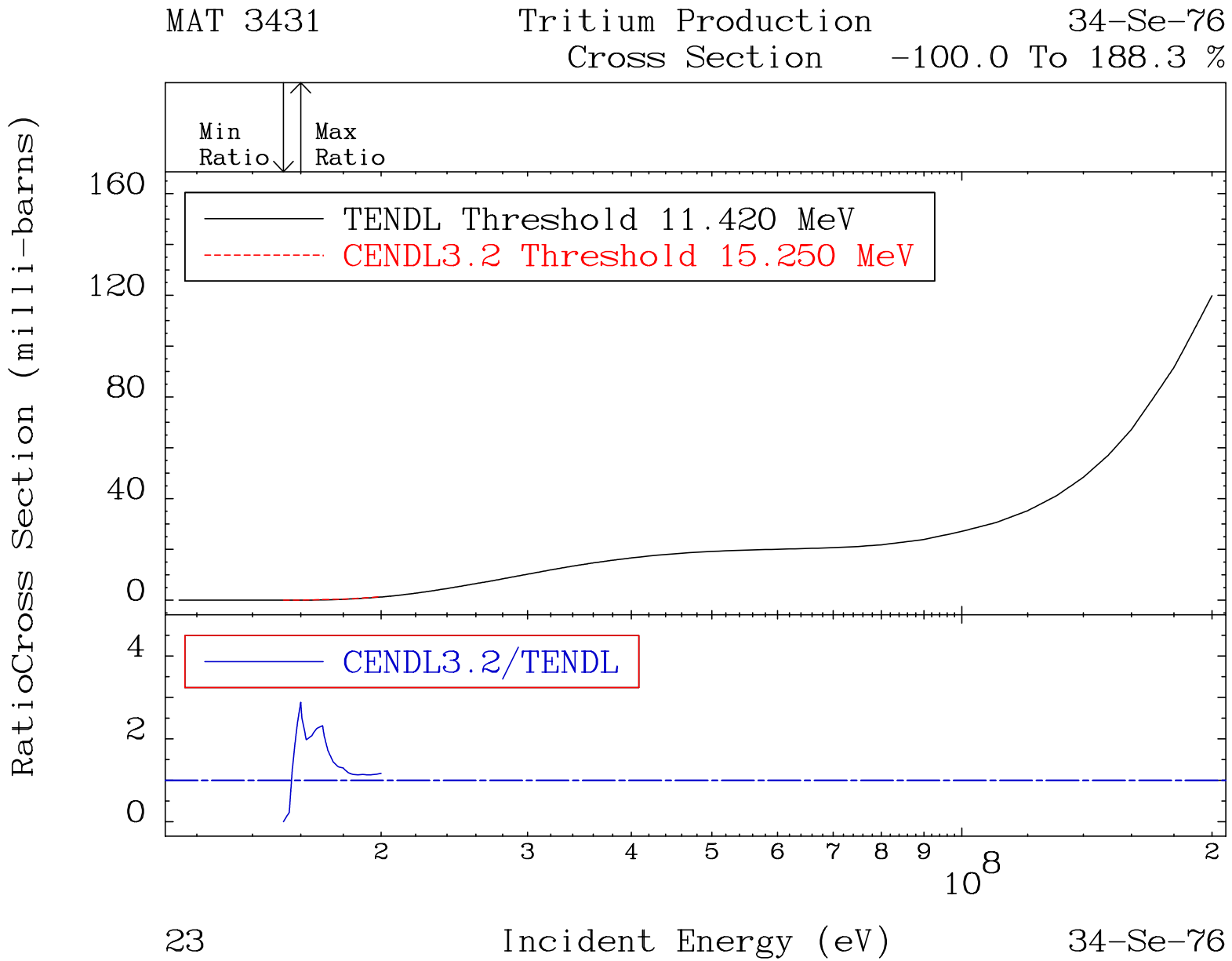

MAT 3431
(n,He-3)
Cross Section
34-Se-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.8049 MeV
CENDL3.2 Threshold 15.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
0
1
2
3
4
5
1.2
0.8
0.4
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
18
Incident Energy (eV)
34-Se-76

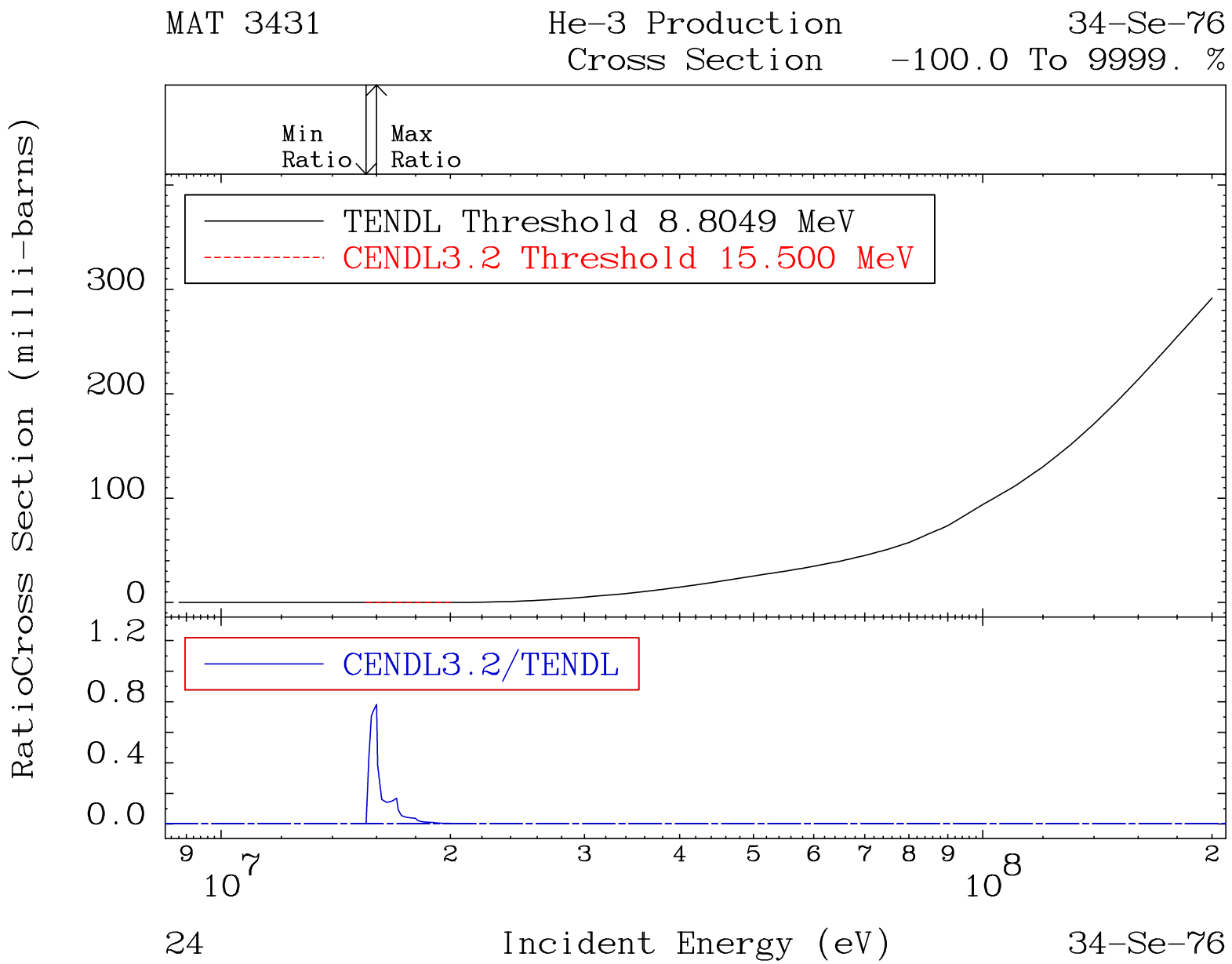

MAT 3431
(n,α)
Cross Section
34-Se-76
-100.0 To 181.9 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 3.3000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
19
Incident Energy (eV)
34-Se-76

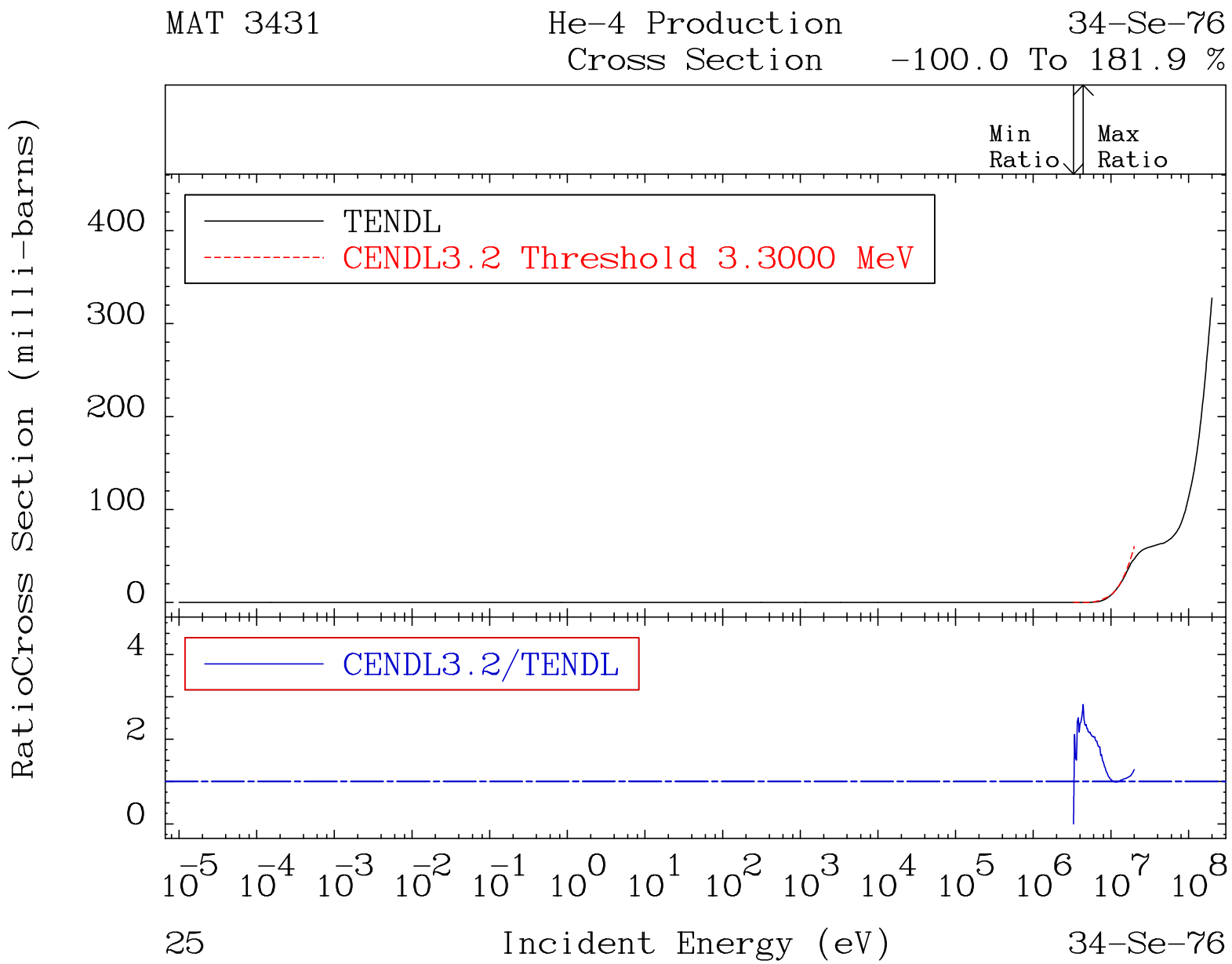

MAT 3431
(n,2p)
34-Se-76
Cross Section
-100.0 To 874.0 %
Min Ratio
Max Ratio
TENDL Threshold 10.033 MeV
CENDL3.2 Threshold 15.750 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
1.0
0.8
0.6
0.4
0.2
0.0
12
6
0
10^7
2
3
4
5
6
7
8
9
10^8
2
20
Incident Energy (eV)
34-Se-76

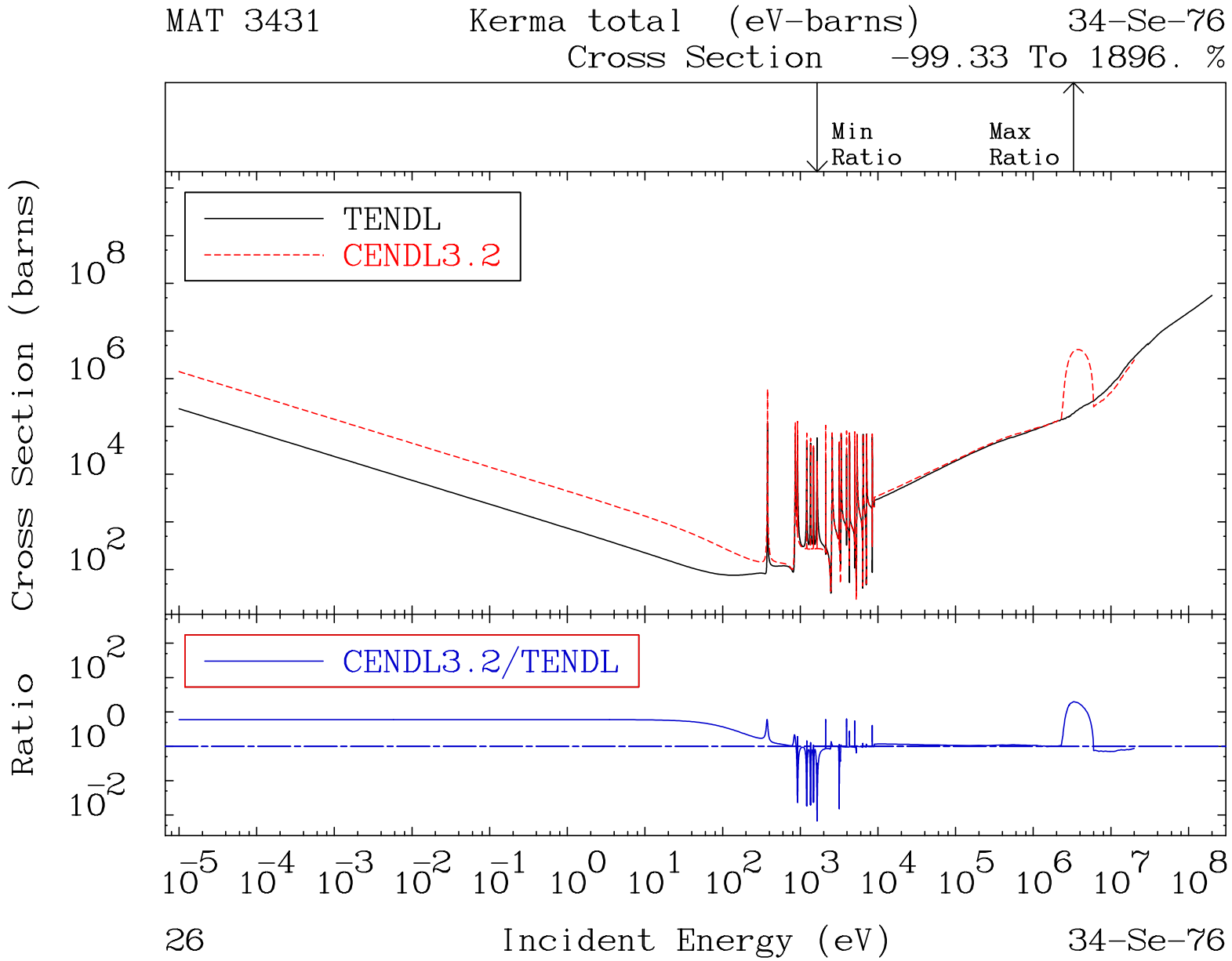

MAT 3431
Hydrogen Production
34-Se-76
Cross Section -100.0 To 8.477 %
Min Ratio
Max Ratio
TENDL Threshold 2.2072 MeV
CENDL3.2 Threshold 3.7000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
CENDL3.2/TENDL
Ratio
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
34-Se-76

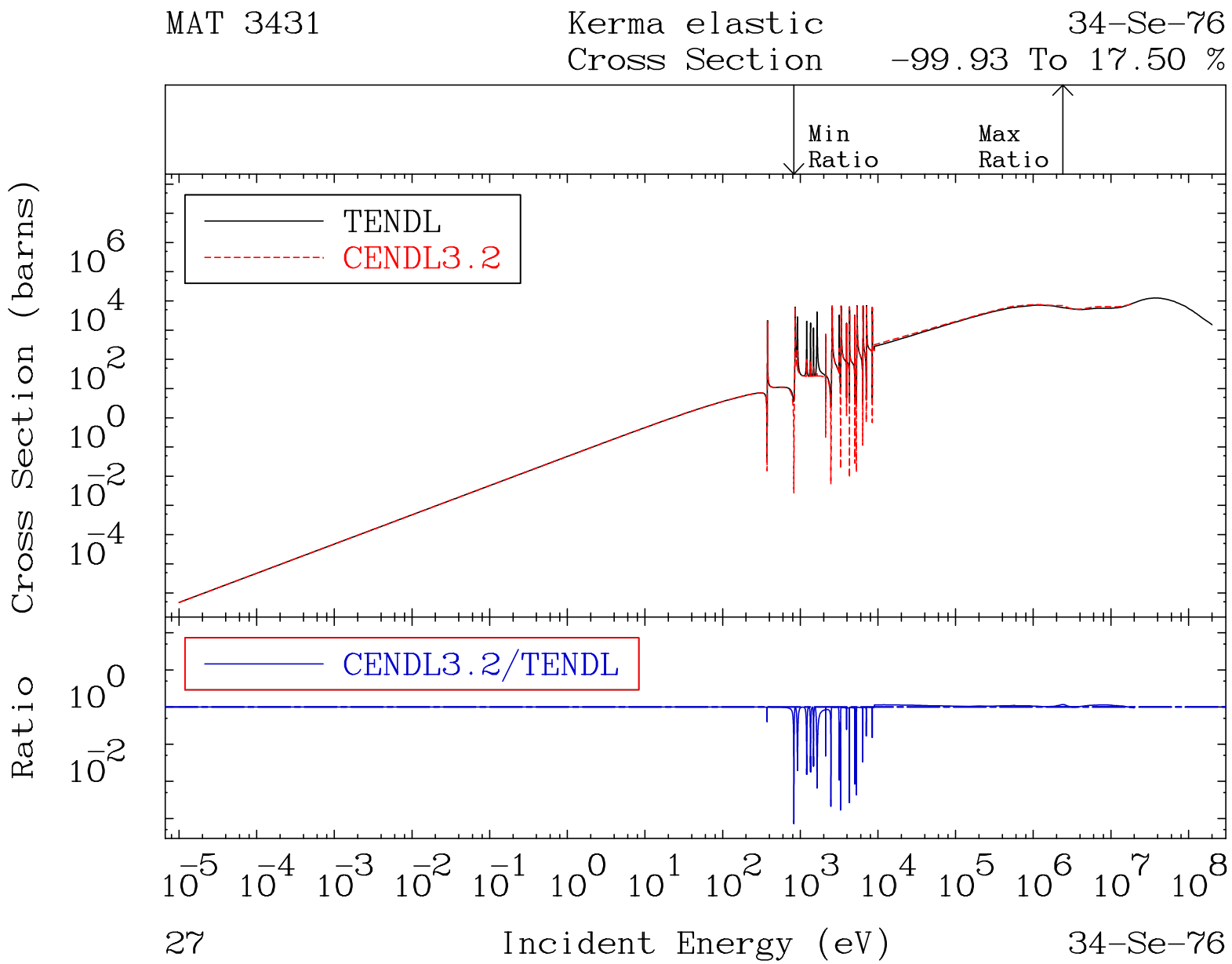

MAT 3431
Deuterium Production
34-Se-76
Cross Section
-100.0 To 254.8 %
Min Ratio
Max Ratio
TENDL Threshold 7.3789 MeV
CENDL3.2 Threshold 10.000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
4
2
0
8
10^7
2
3
4
5
6
7
8
10^8
2
22
Incident Energy (eV)
34-Se-76

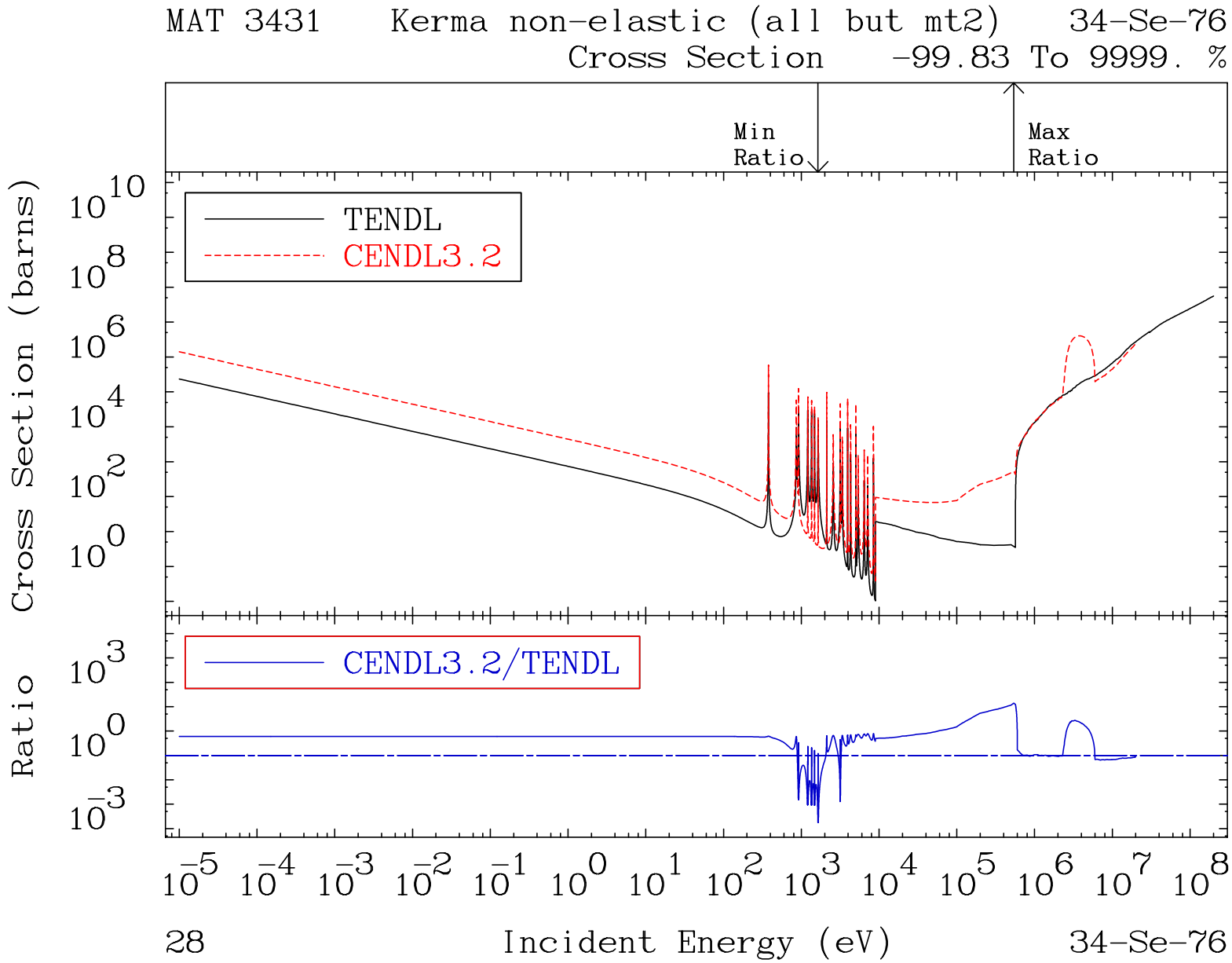

MAT 3431
Tritium Production
34-Se-76
Cross Section
-100.0 To 188.3 %
Min Ratio
Max Ratio
TENDL Threshold 11.420 MeV
CENDL3.2 Threshold 15.250 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
4
2
0
2
3
4
5
6
7
8
9
10^8
2
23
Incident Energy (eV)
34-Se-76

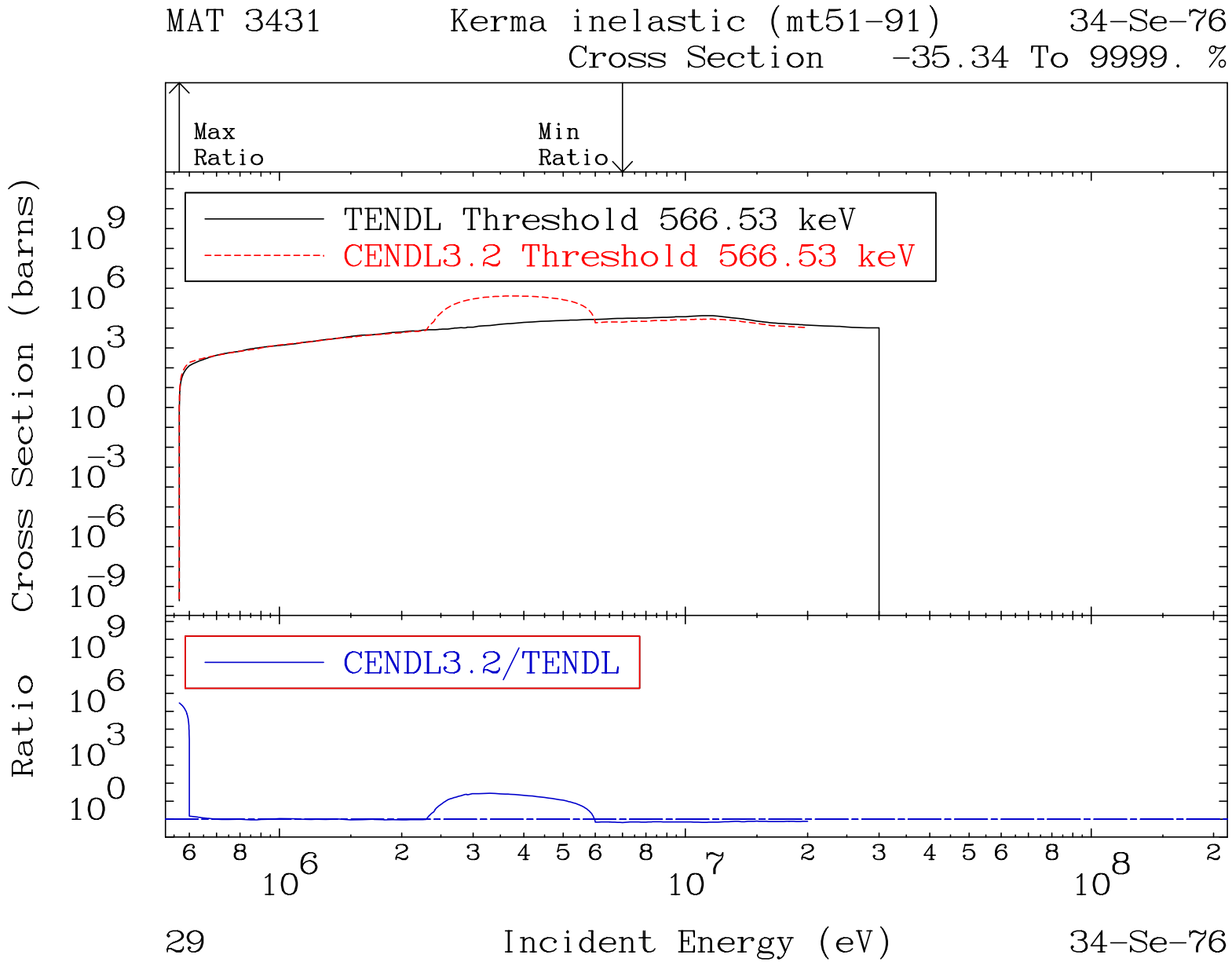

MAT 3431
He-3 Production
34-Se-76
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.8049 MeV
CENDL3.2 Threshold 15.500 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
300
200
100
0
1.2
0.8
0.4
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
24
Incident Energy (eV)
34-Se-76

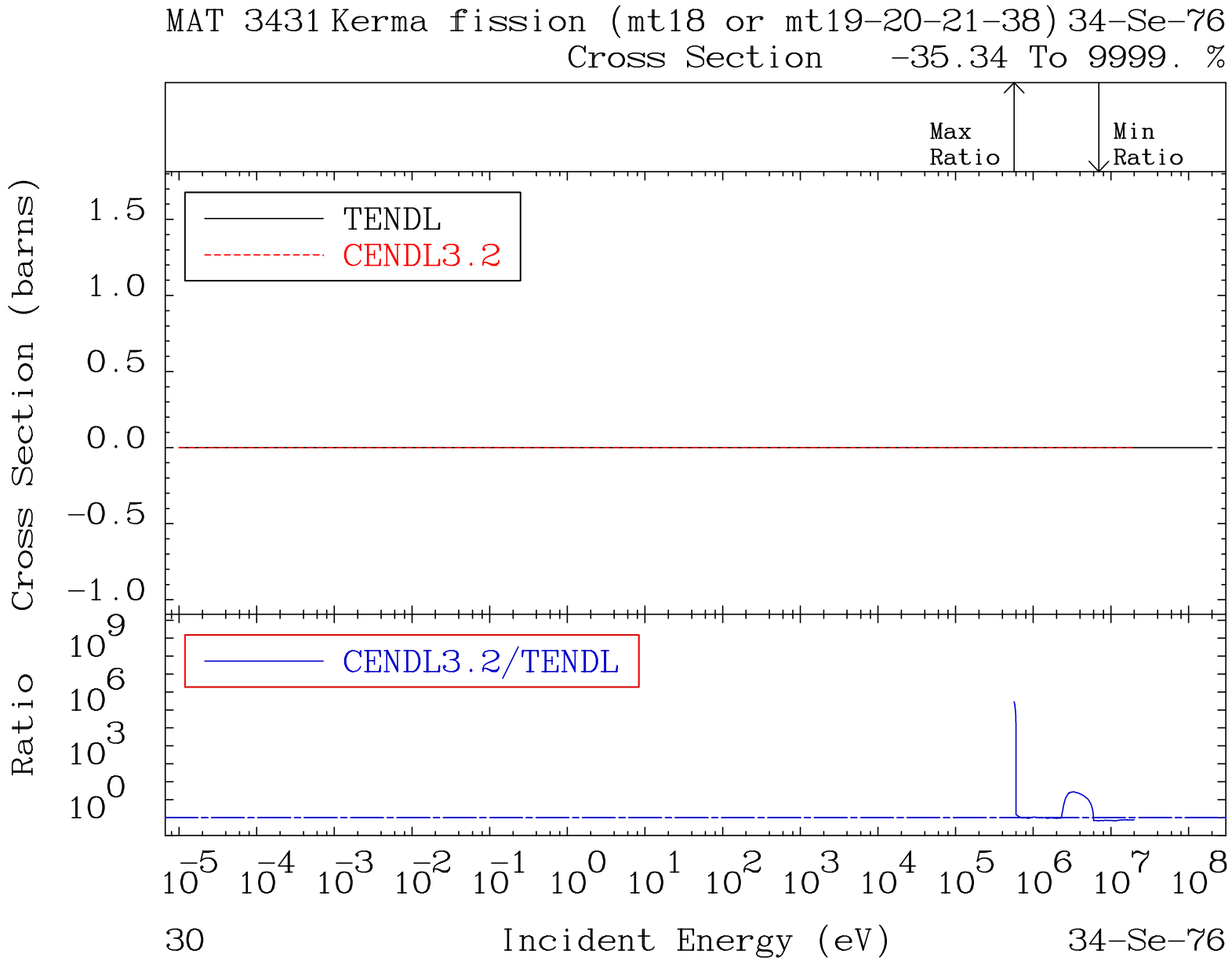

MAT 3431
He-4 Production
Cross Section
34-Se-76
-100.0 To 181.9 %
Min Ratio
Max Ratio
TENDL
CENDL3.2 Threshold 3.3000 MeV
CENDL3.2/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
25
Incident Energy (eV)
34-Se-76

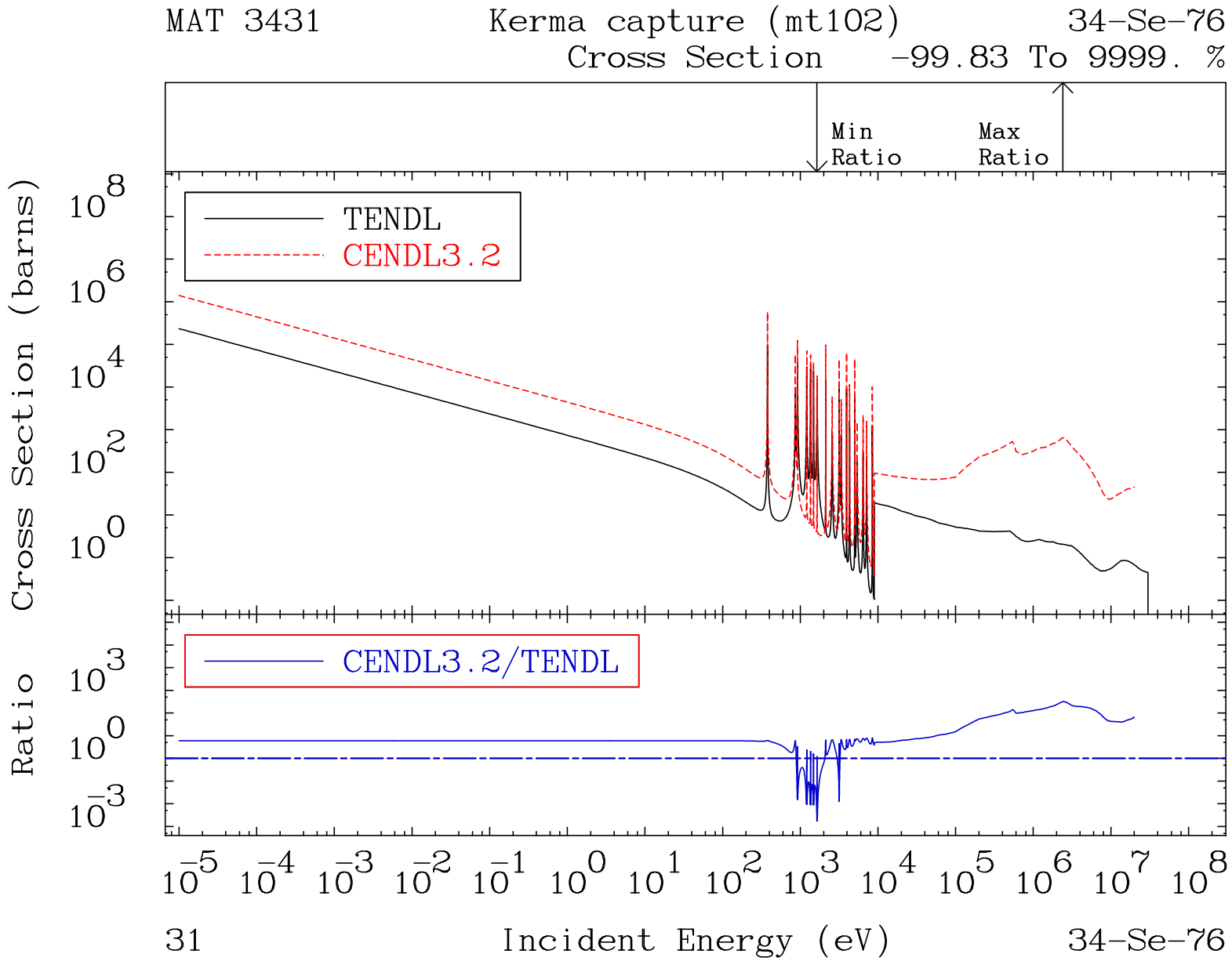

MAT 3431
Kerma total (eV-barns)
34-Se-76
Cross Section -99.33 To 1896. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
26
34-Se-76

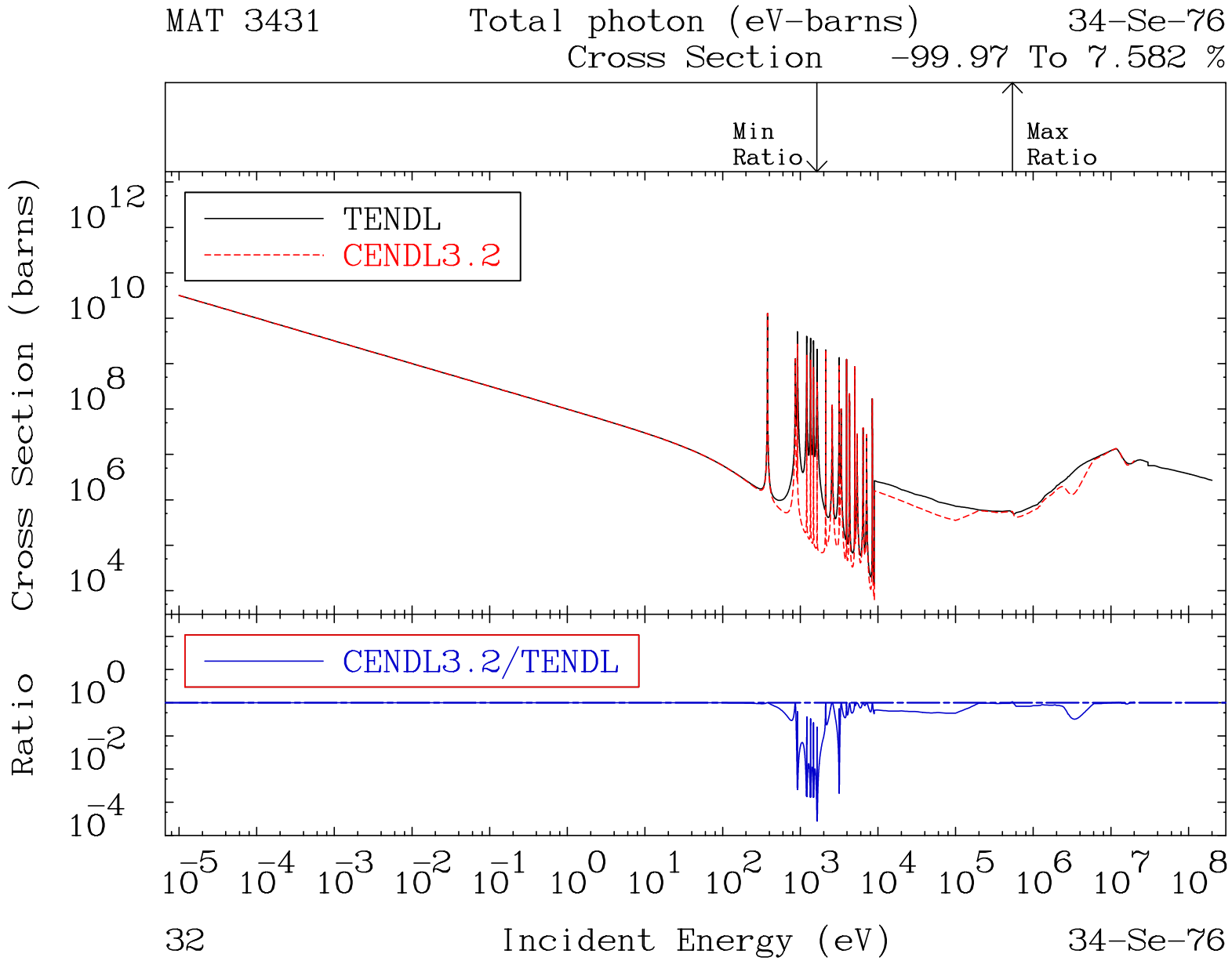

MAT 3431
Kerma elastic
Cross Section
34-Se-76
-99.93 To 17.50 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
Ratio
CENDL3.2/TENDL
Incident Energy (eV)
27
34-Se-76

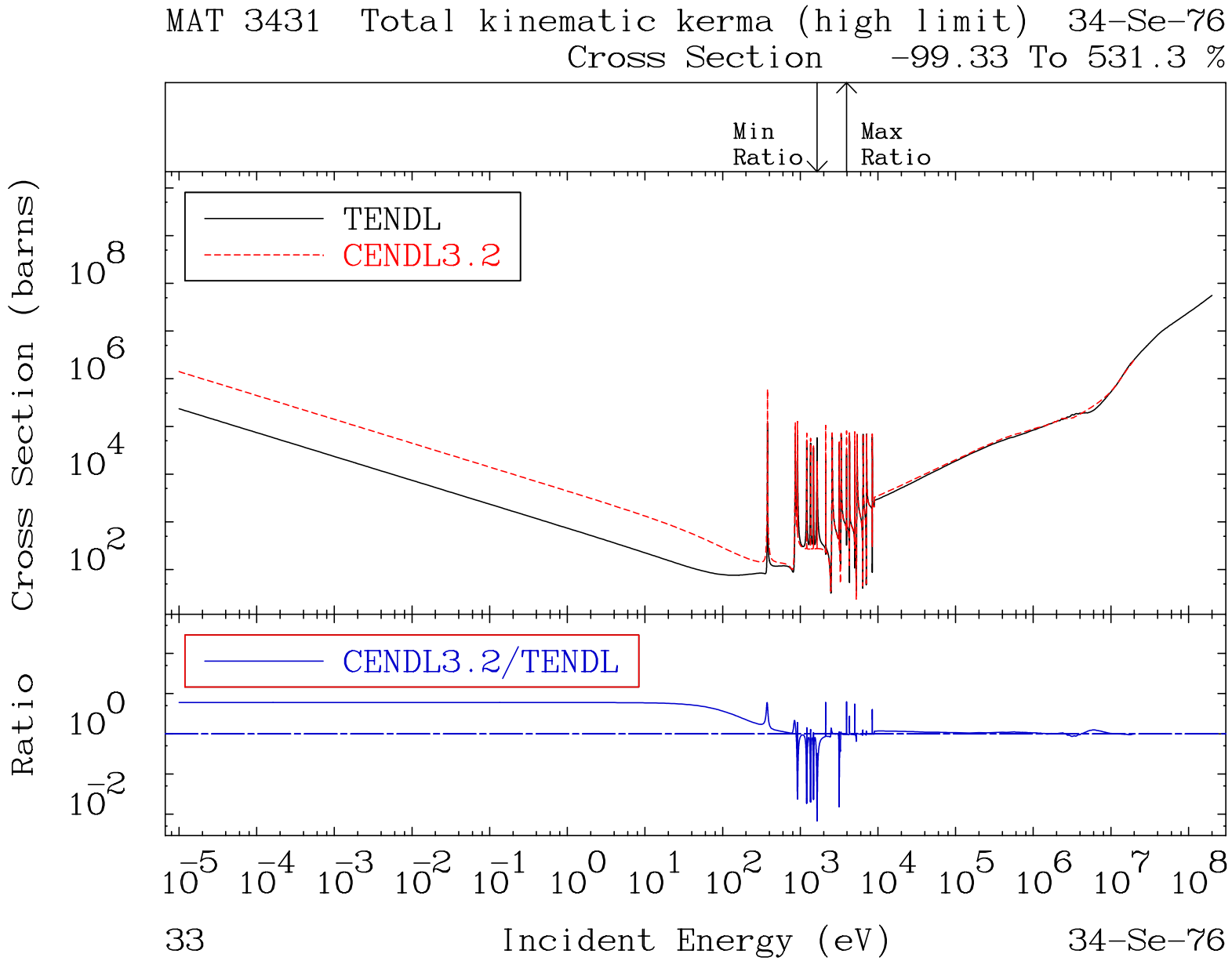

MAT 3431 Kerma non-elastic (all but mt2) 34-Se-76
Cross Section -99.83 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
28
34-Se-76

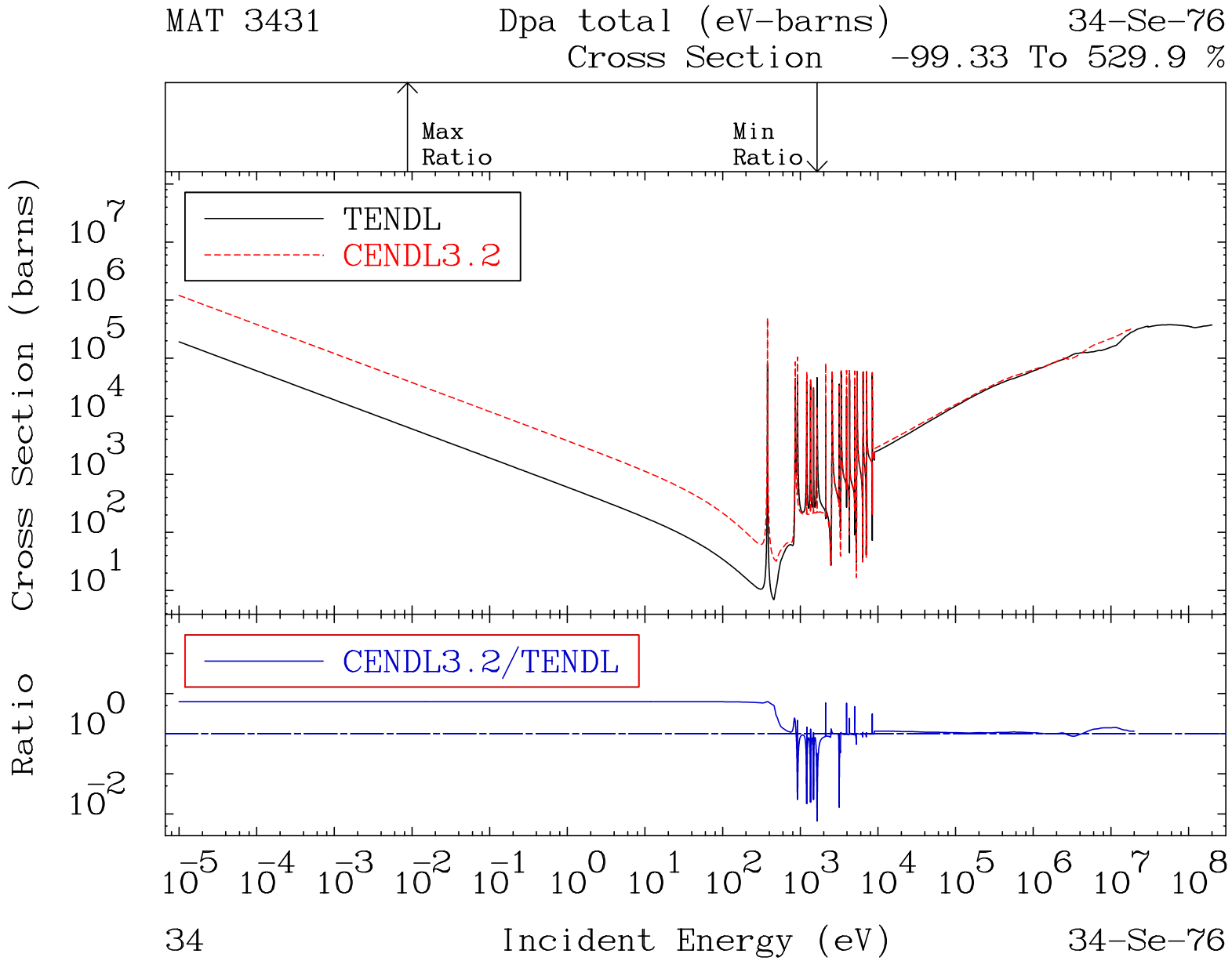

MAT 3431
Kerma inelastic (mt51-91)
34-Se-76
Cross Section -35.34 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
CENDL3.2 Threshold 566.53 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
29
34-Se-76

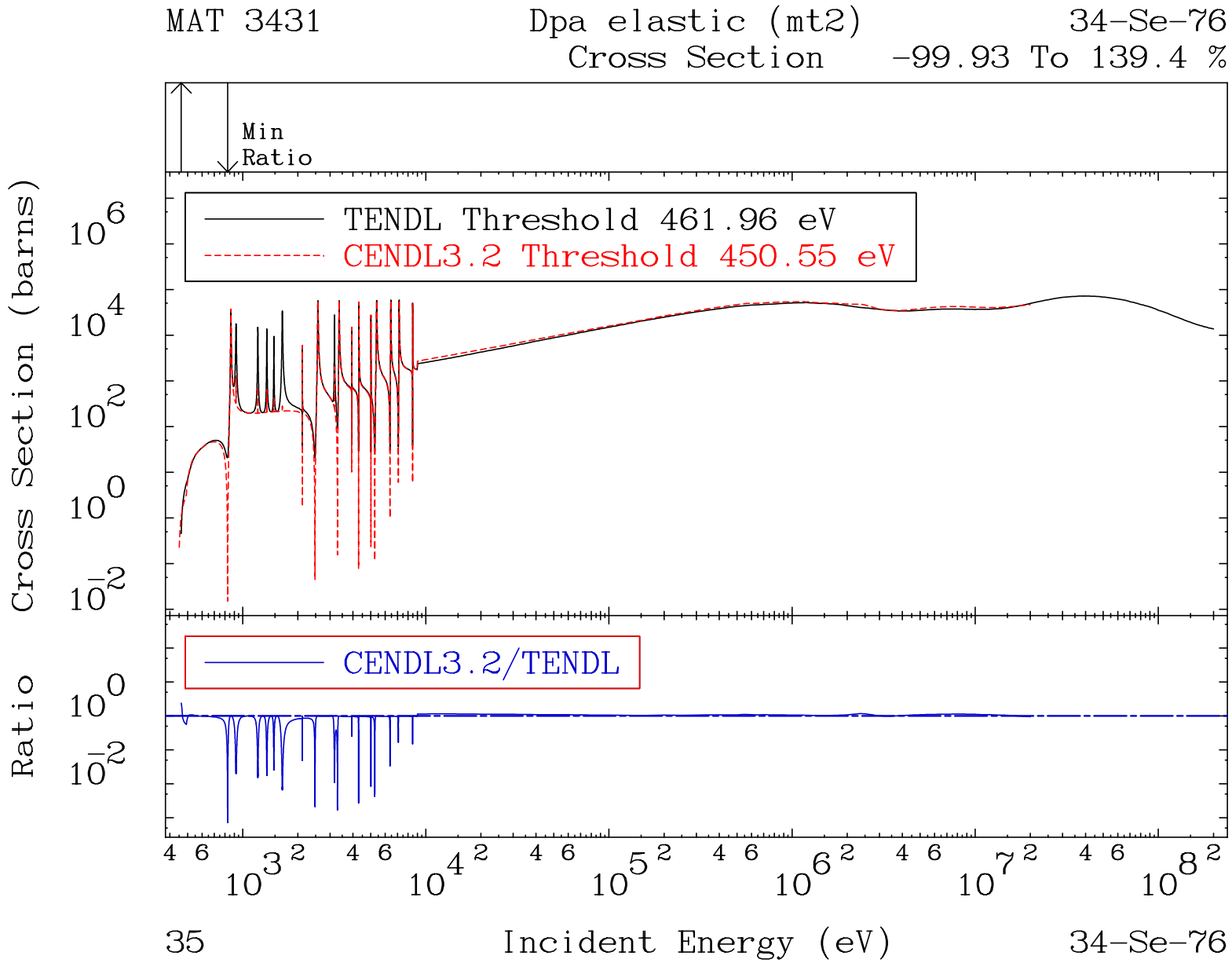

MAT 3431 Kerma fission (mt18 or mt19-20-21-38) 34-Se-76
Cross Section -35.34 To 9999. %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Ratio Cross Section (barns)
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{9}
10^{6}
10^{3}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
30
Incident Energy (eV)
34-Se-76

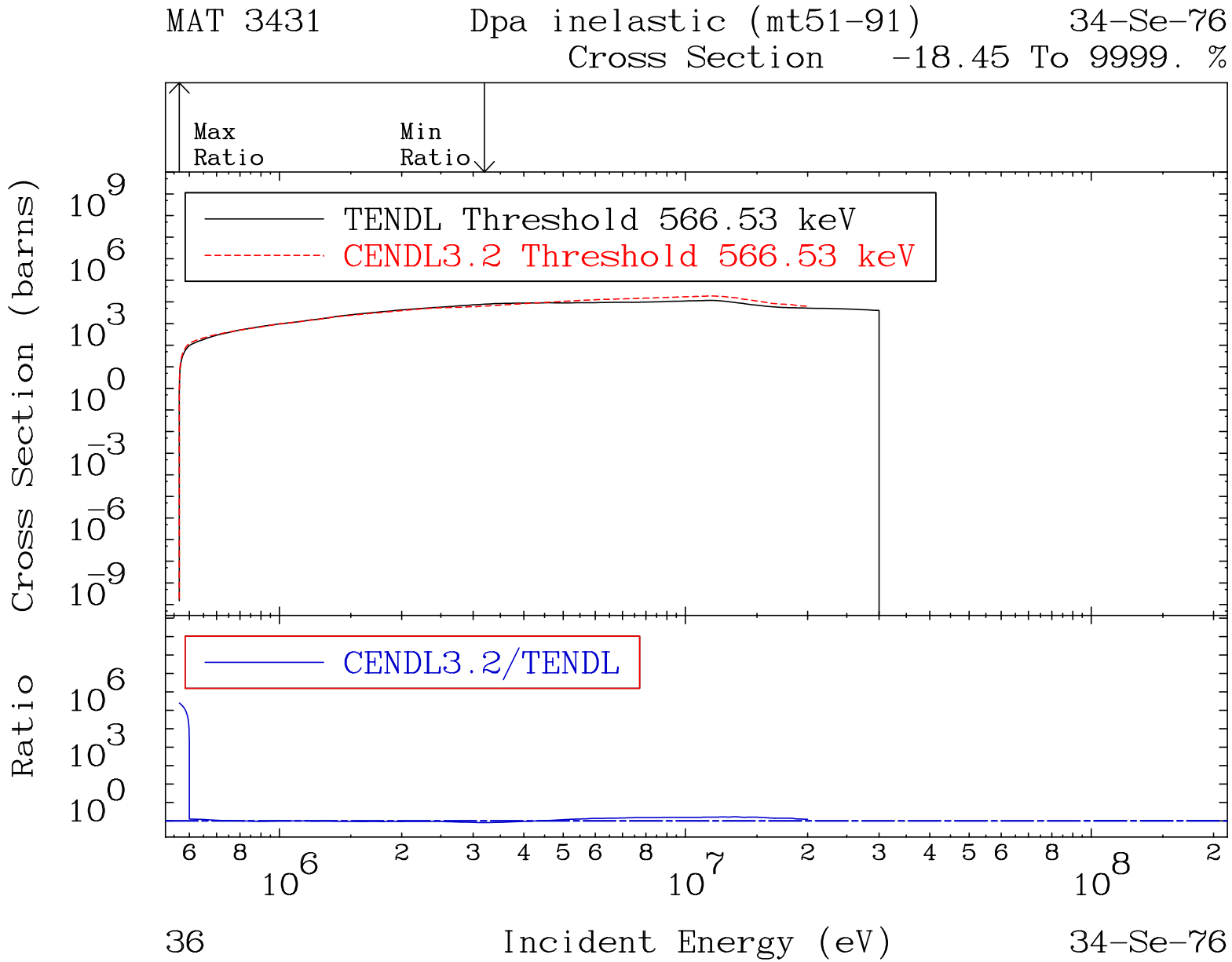

MAT 3431
Kerma capture (mt102)
34-Se-76
Cross Section -99.83 To 9999. %
Min Ratio
Max Ratio
TENDL
CENDL3.2
Cross Section (barns)
CENDL3.2/TENDL
Ratio
Incident Energy (eV)
31
34-Se-76

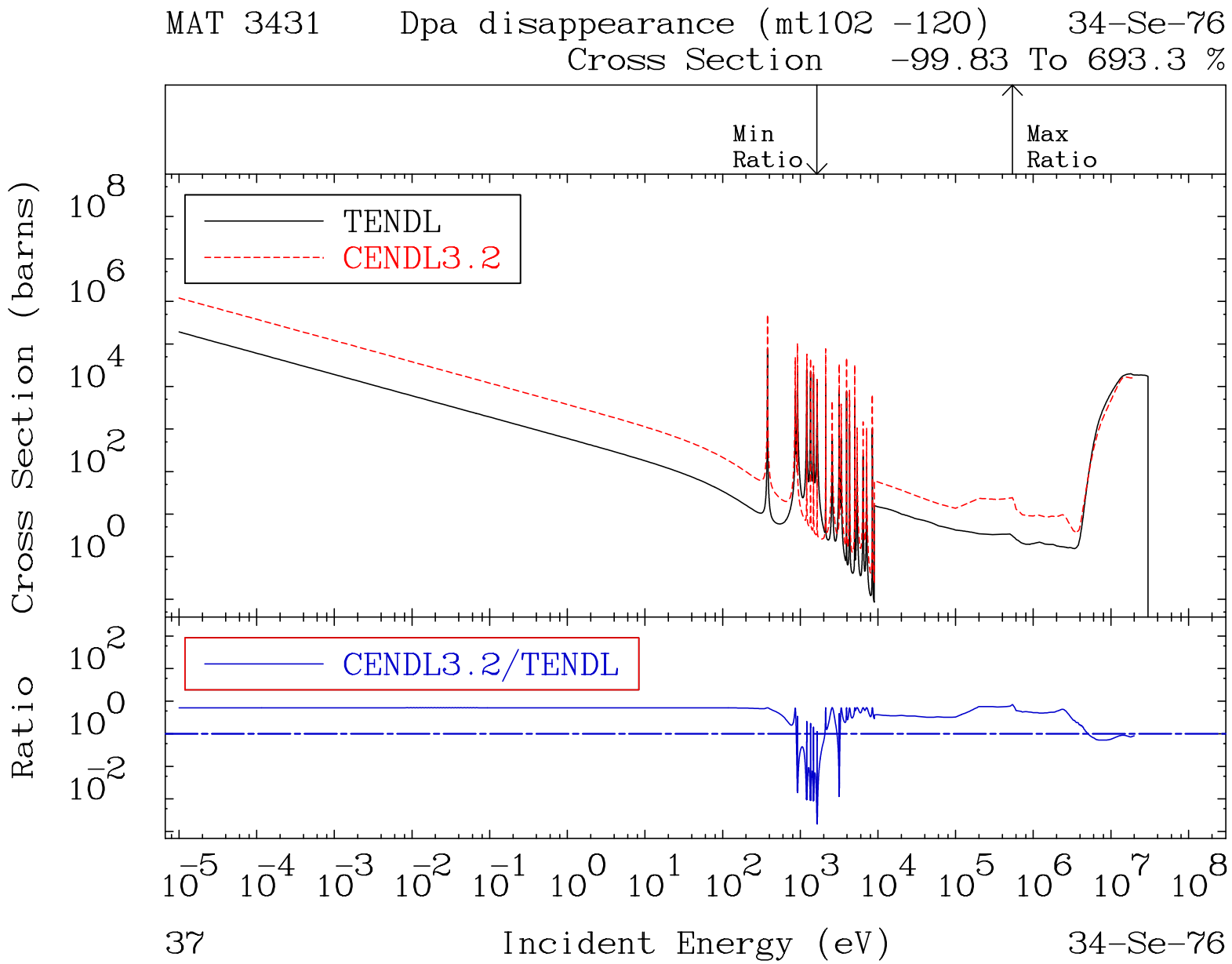

MAT 3431
Total photon (eV-barns)
34-Se-76
Cross Section -99.97 To 7.582 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
32
34-Se-76

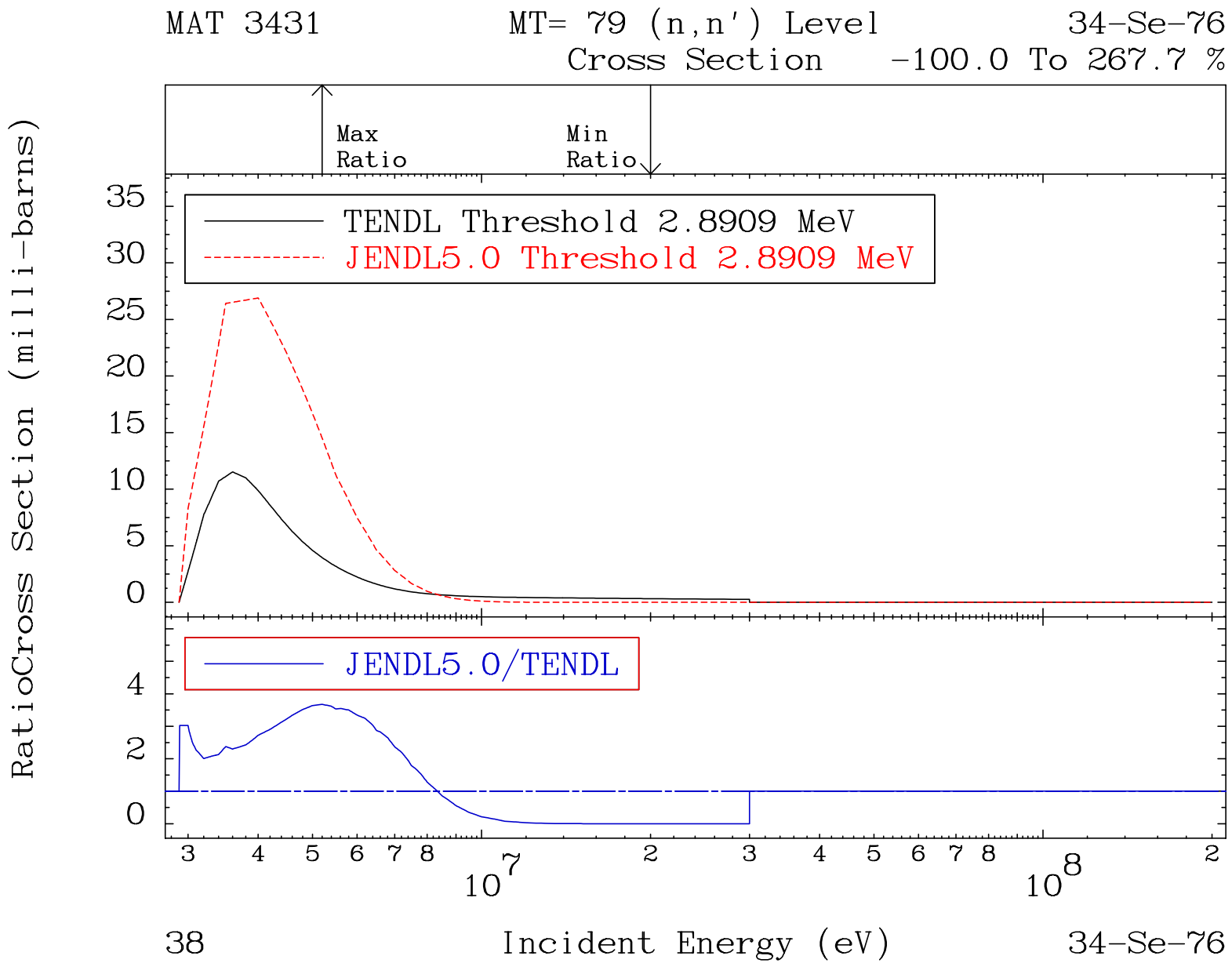

MAT 3431 Total kinematic kerma (high limit) 34-Se-76
Cross Section -99.33 To 531.3 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
33
34-Se-76

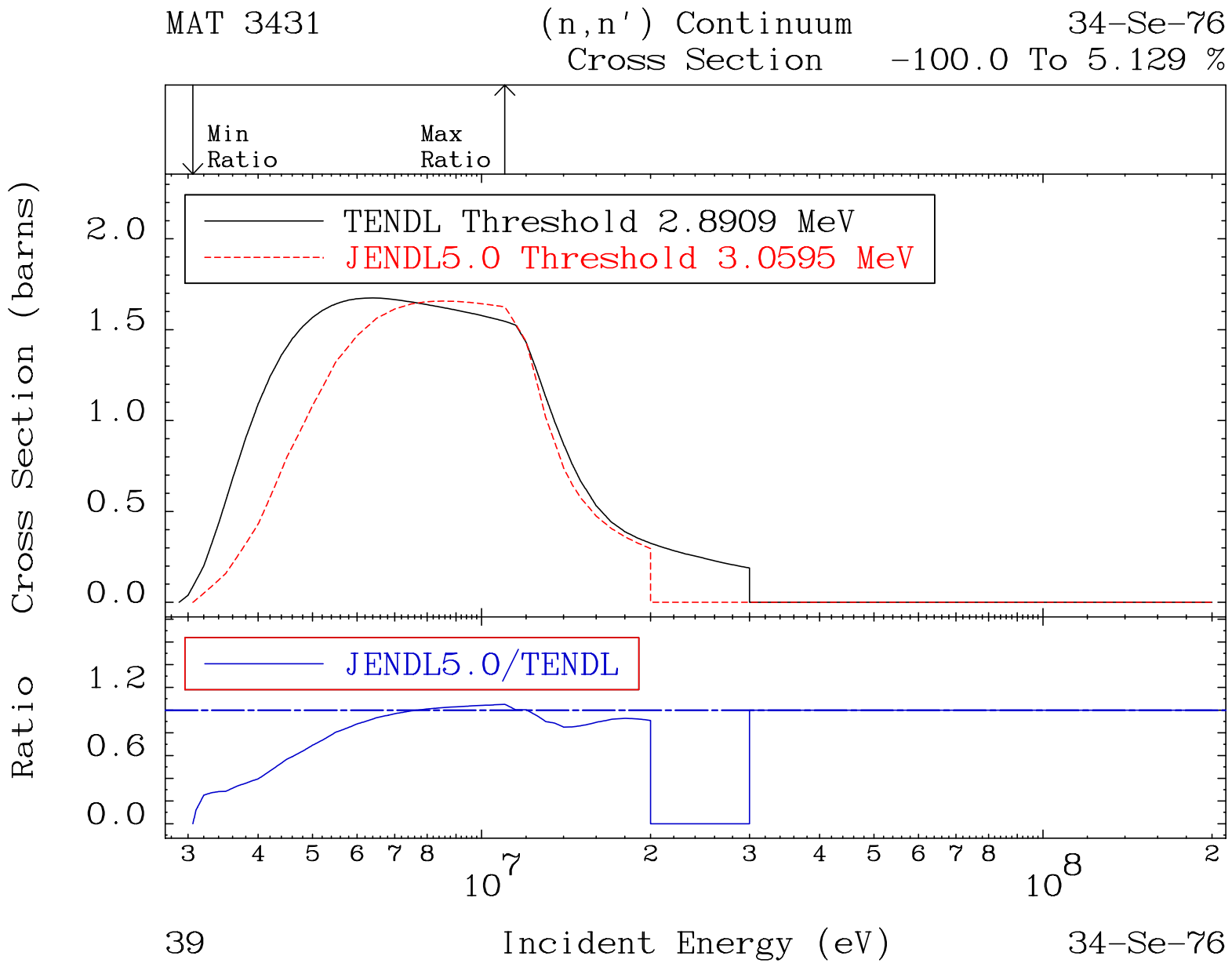

MAT 3431
Dpa total (eV-barns)
34-Se-76
Cross Section -99.33 To 529.9 %
Max Ratio
Min Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
34-Se-76

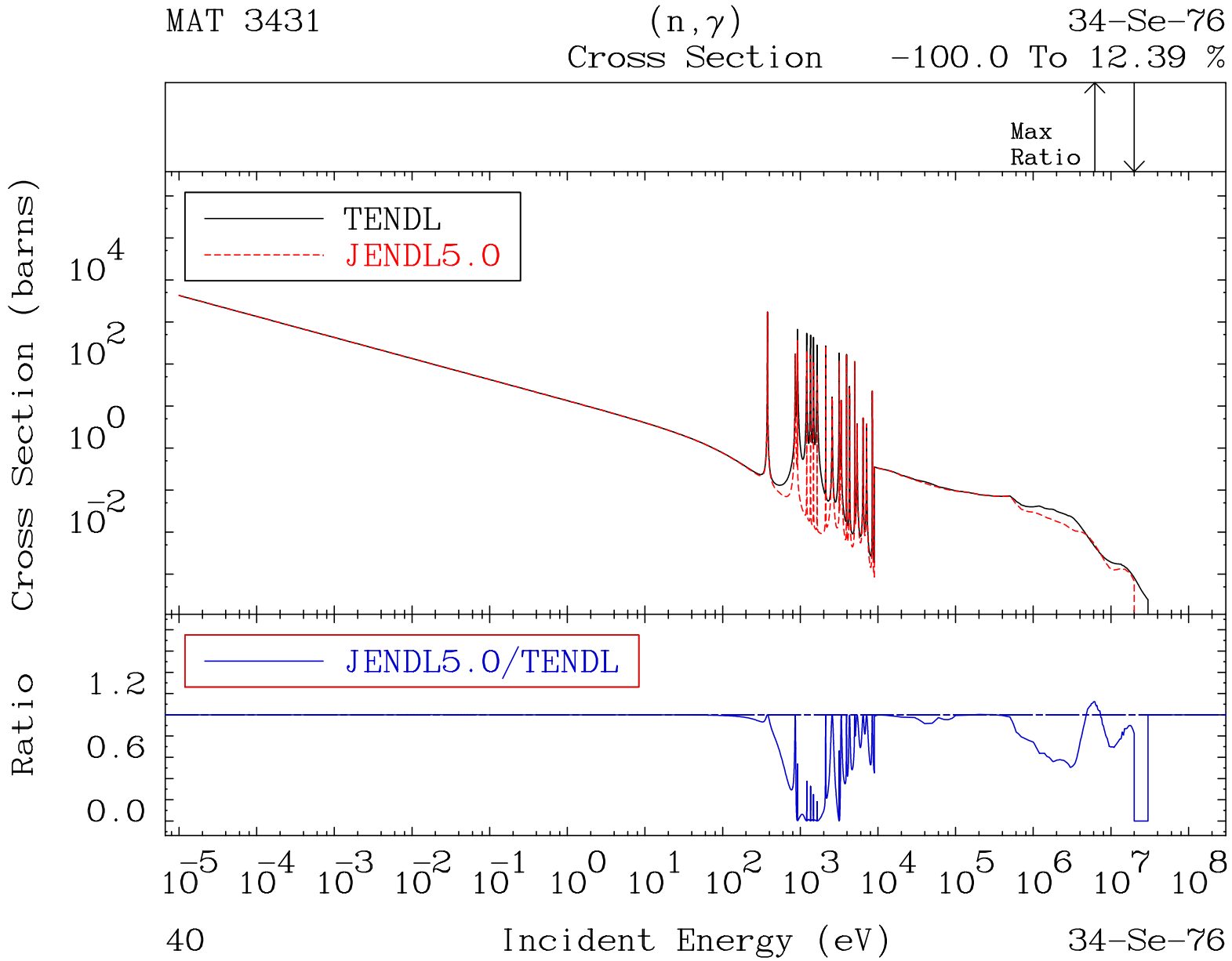

MAT 3431
Dpa elastic (mt2)
Cross Section
34-Se-76
-99.93 To 139.4 %
Min
Ratio
TENDL Threshold 461.96 eV
CENDL3.2 Threshold 450.55 eV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
34-Se-76

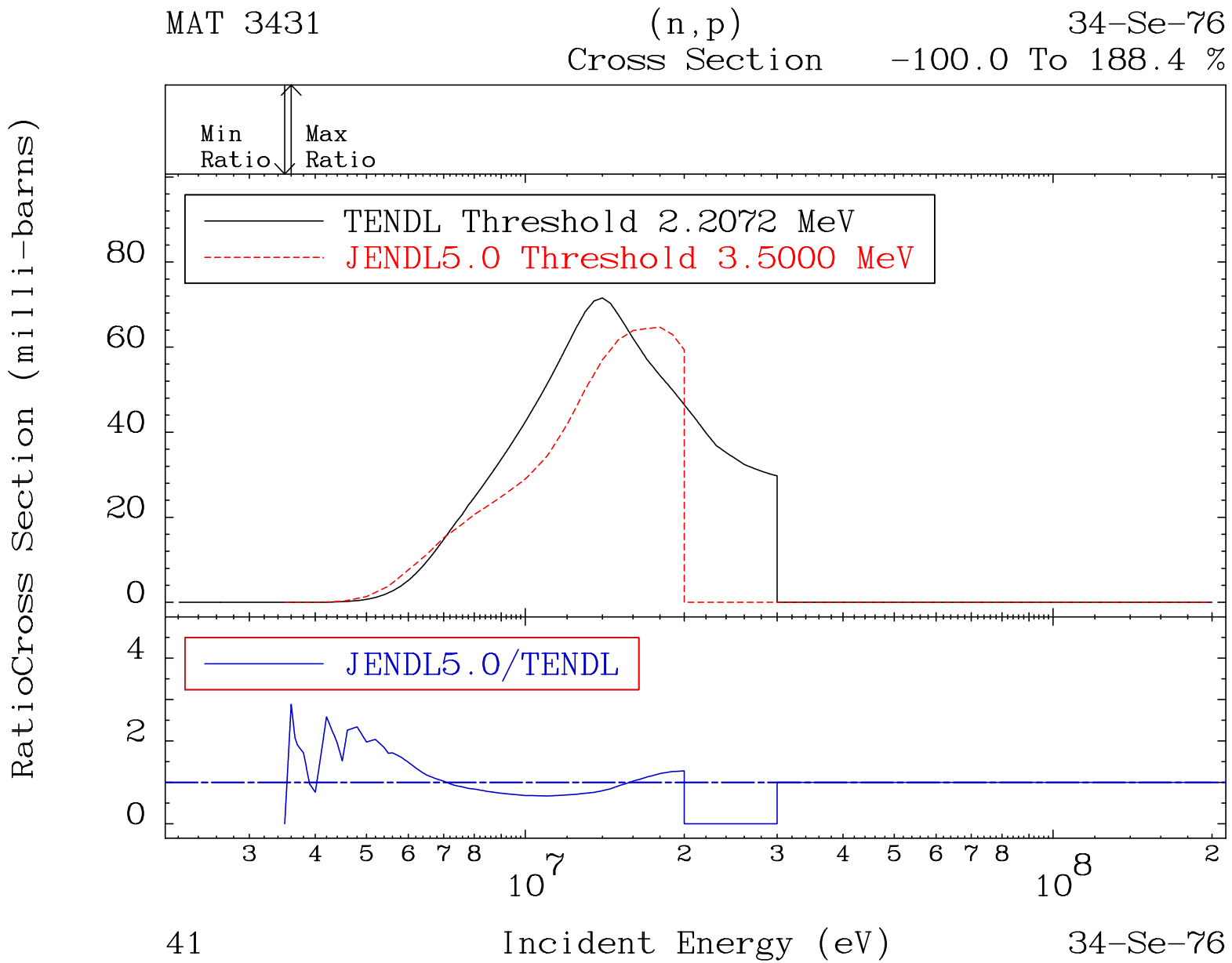

MAT 3431
Dpa inelastic (mt51-91)
34-Se-76
Cross Section -18.45 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
CENDL3.2 Threshold 566.53 keV
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
34-Se-76

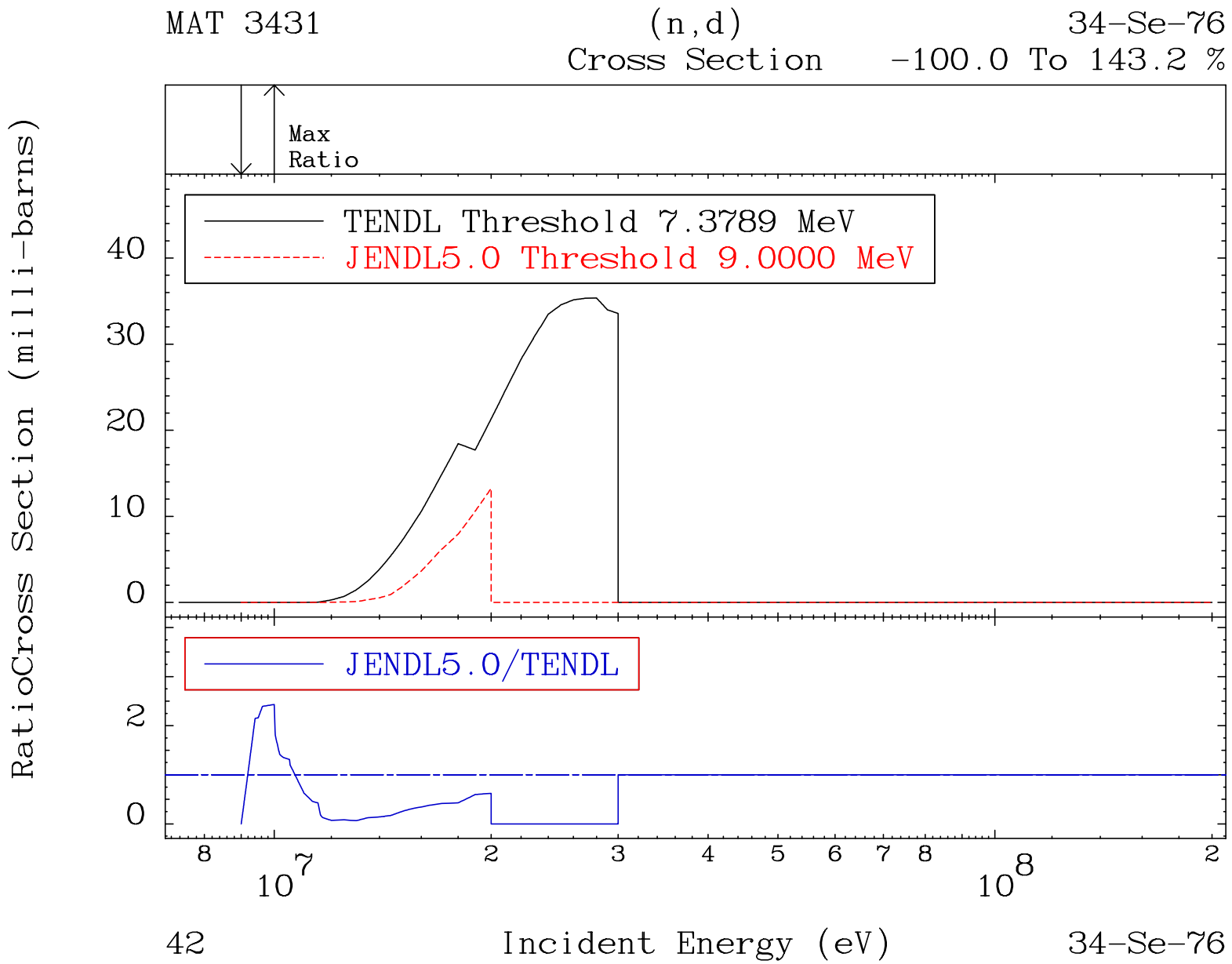

MAT 3431 Dpa disappearance (mt102 -120) 34-Se-76
Cross Section -99.83 To 693.3 %
Min Ratio
Max Ratio
TENDL
CENDL3.2
CENDL3.2/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
34-Se-76

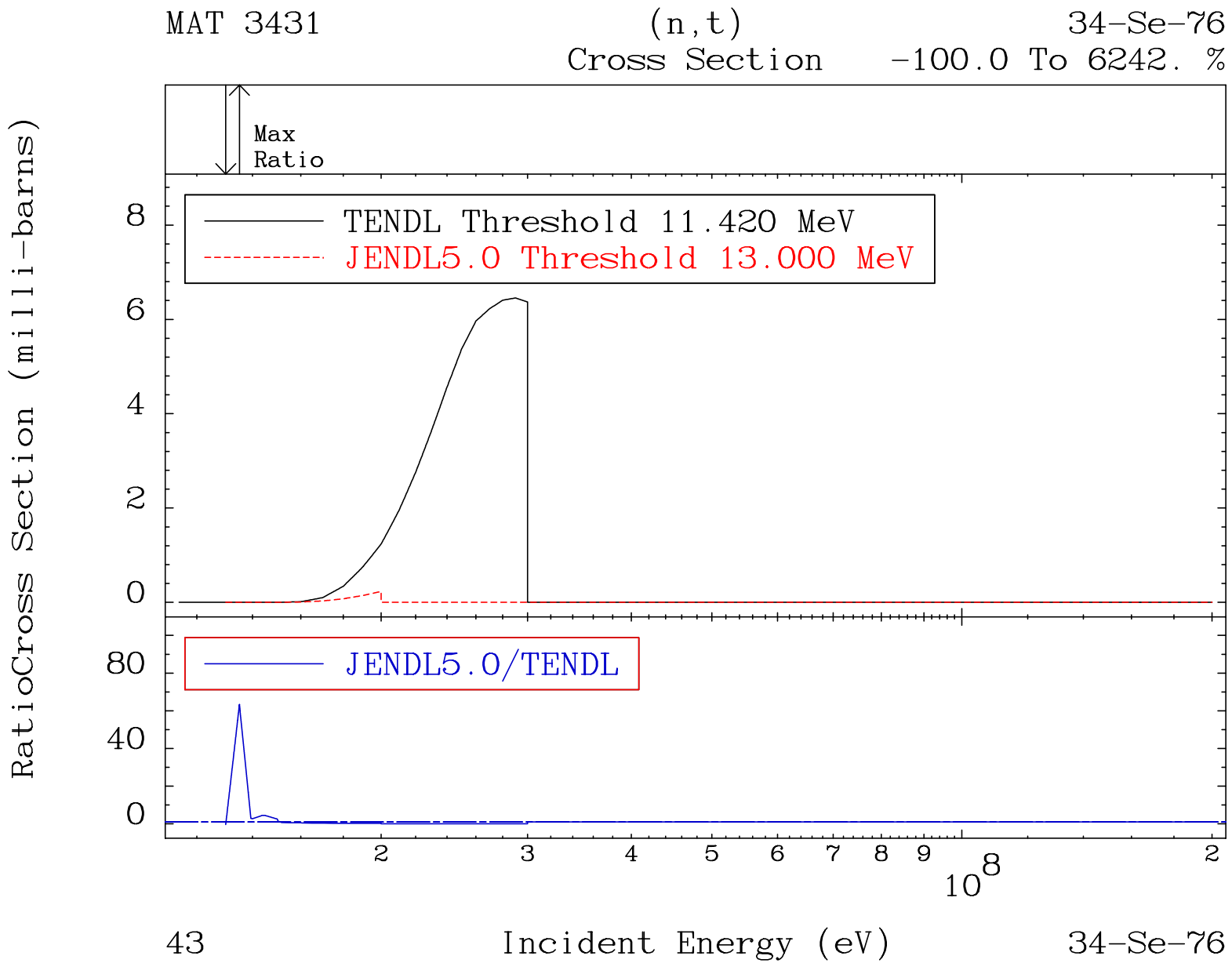

MAT 3431
MT= 79 (n,n') Level
34-Se-76
Cross Section
-100.0 To 267.7 %
Max Ratio
Min Ratio
TENDL Threshold 2.8909 MeV
JENDL5.0 Threshold 2.8909 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
38
Incident Energy (eV)
34-Se-76

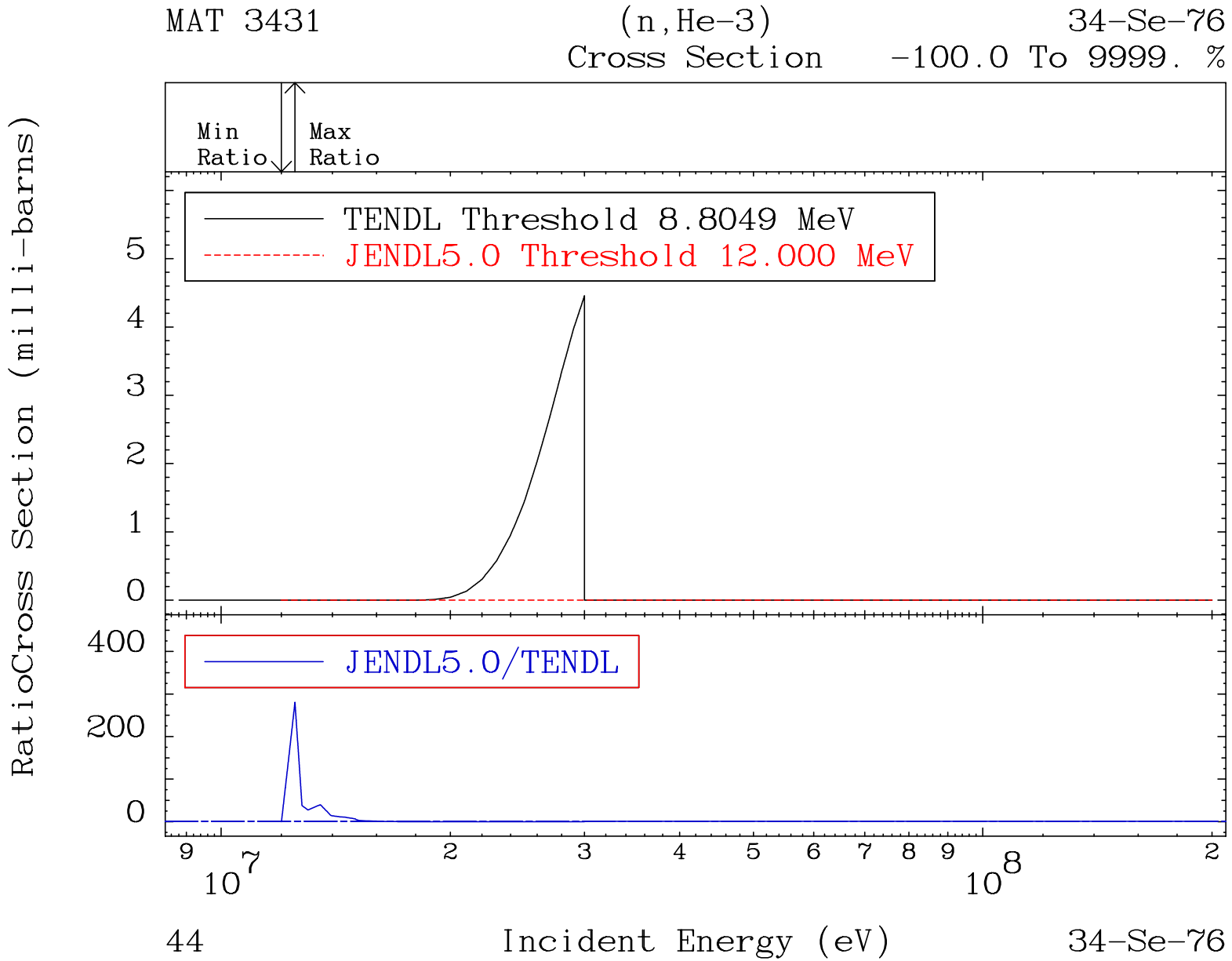

MAT 3431
(n,n') Continuum
Cross Section
34-Se-76
-100.0 To 5.129 %
Min Ratio
Max Ratio
TENDL Threshold 2.8909 MeV
JENDL5.0 Threshold 3.0595 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
2.0
1.5
1.0
0.5
0.0
1.2
0.6
0.0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
39
34-Se-76

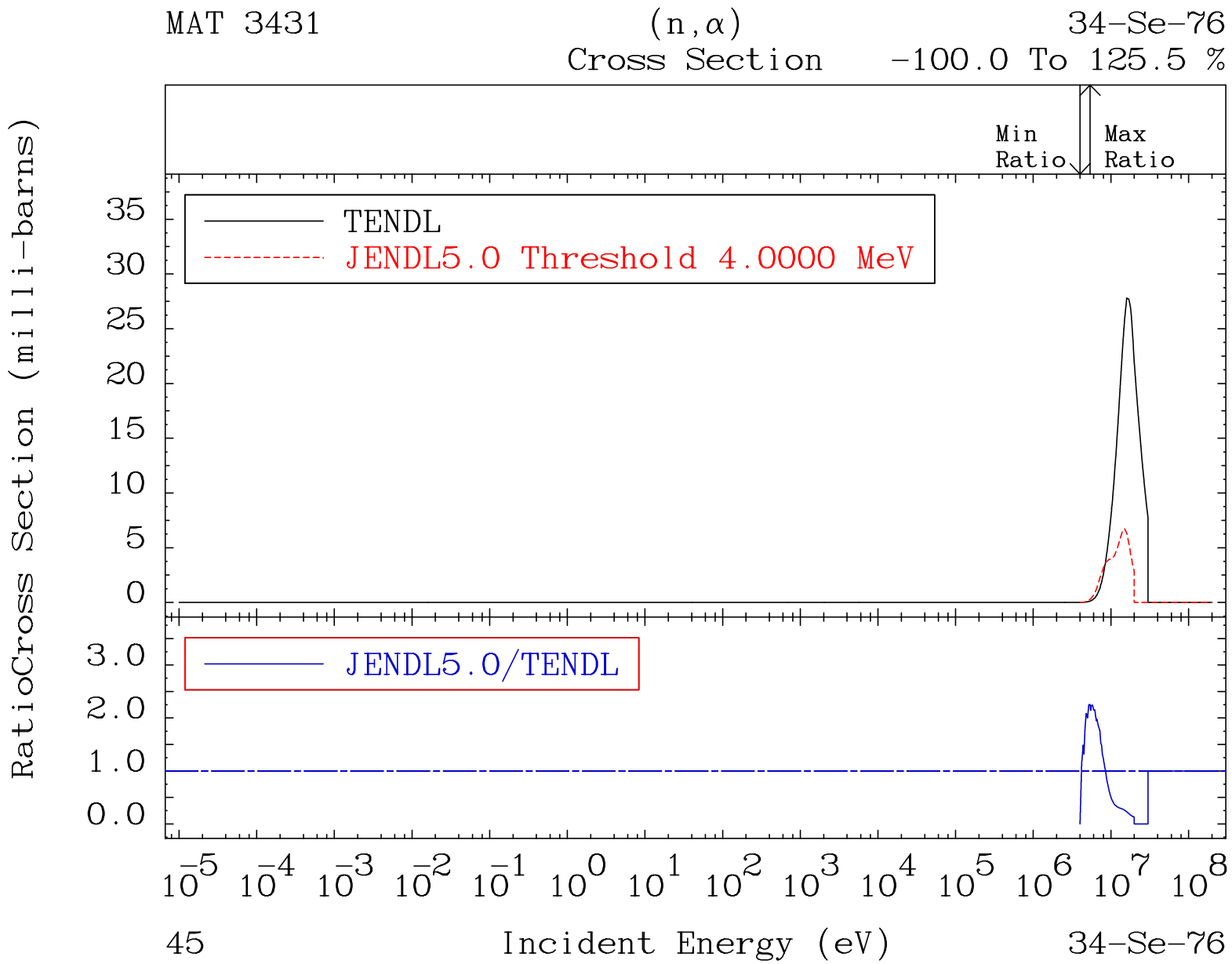

MAT 3431
(n,γ)
Cross Section
34-Se-76
-100.0 To 12.39 %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^4
10^2
10^0
10^-2
JENDL5.0/TENDL
Ratio
1.2
0.6
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
40
Incident Energy (eV)
34-Se-76

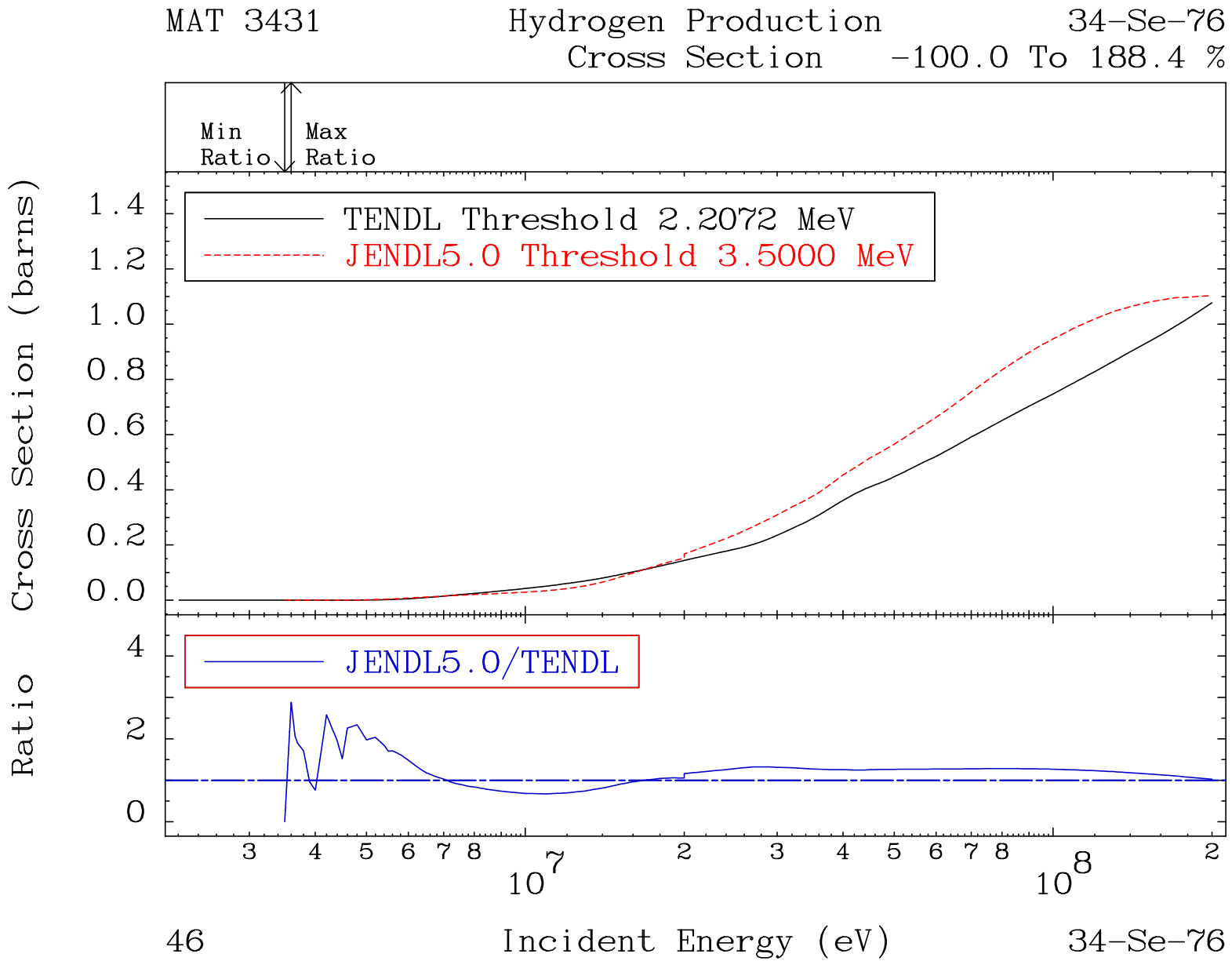

MAT 3431
(n,p)
34-Se-76
Cross Section
-100.0 To 188.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.2072 MeV
JENDL5.0 Threshold 3.5000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
4
2
0
3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
41
Incident Energy (eV)
34-Se-76

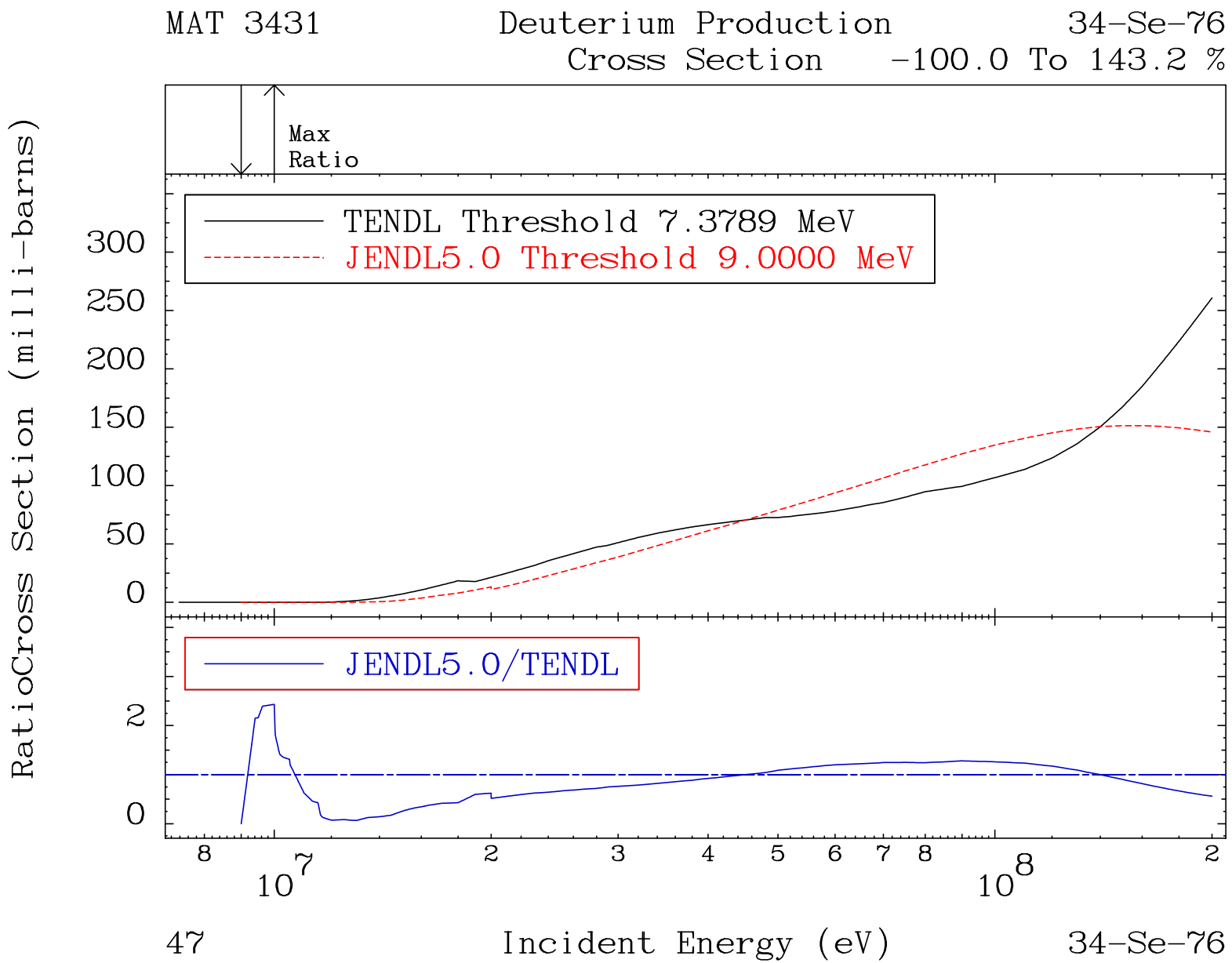

MAT 3431
(n,d)
34-Se-76
Cross Section
-100.0 To 143.2 %
Max
Ratio
TENDL Threshold 7.3789 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2
0
8
2
3
4
5
6
7
8
2
10^7
10^8
42
Incident Energy (eV)
34-Se-76

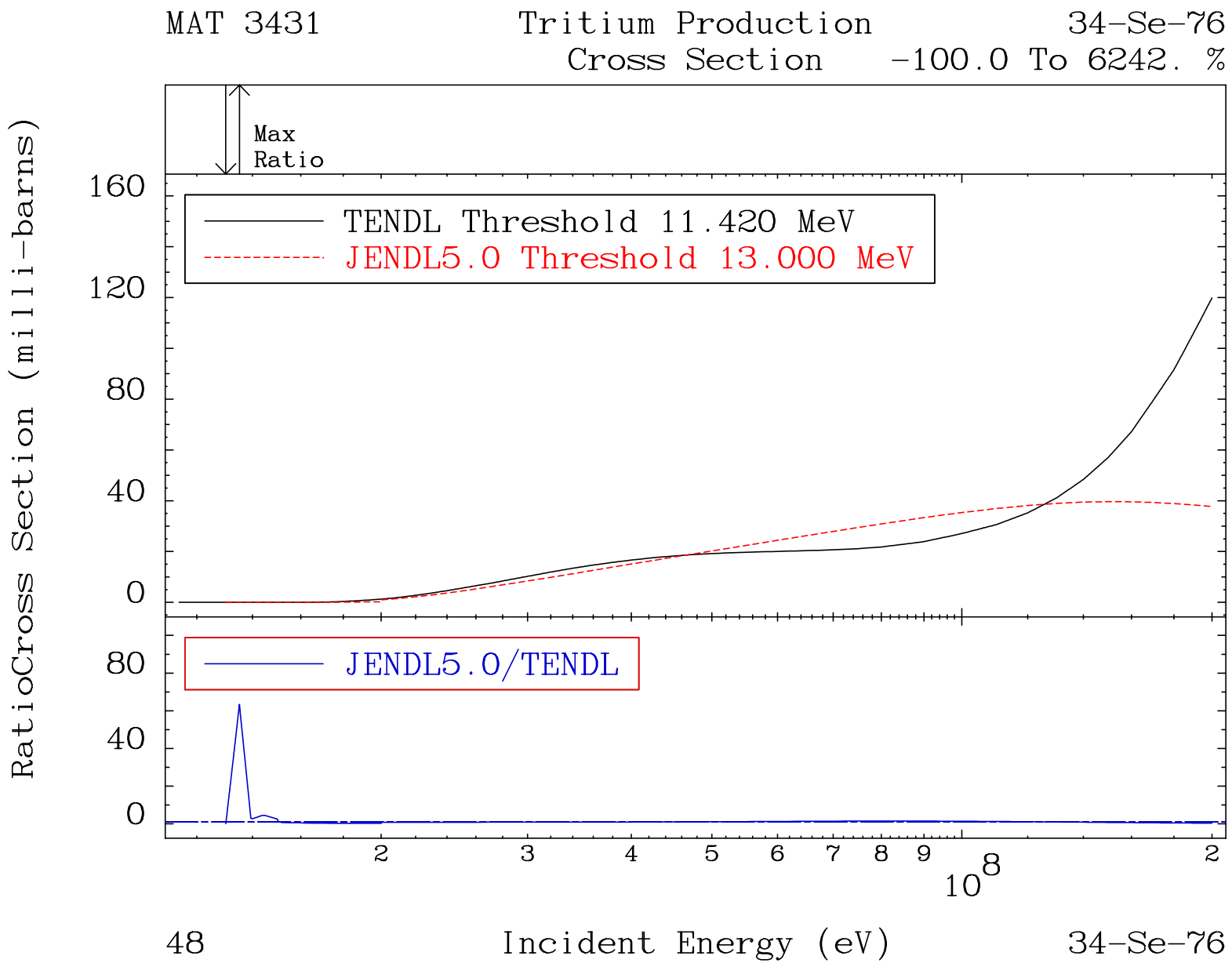

MAT 3431
(n,t)
34-Se-76
Cross Section
-100.0 To 6242. %
Max
Ratio
TENDL Threshold 11.420 MeV
JENDL5.0 Threshold 13.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
8
6
4
2
0
80
40
0
2
3
4
5
6
7
8
9
10^8
2
43
Incident Energy (eV)
34-Se-76

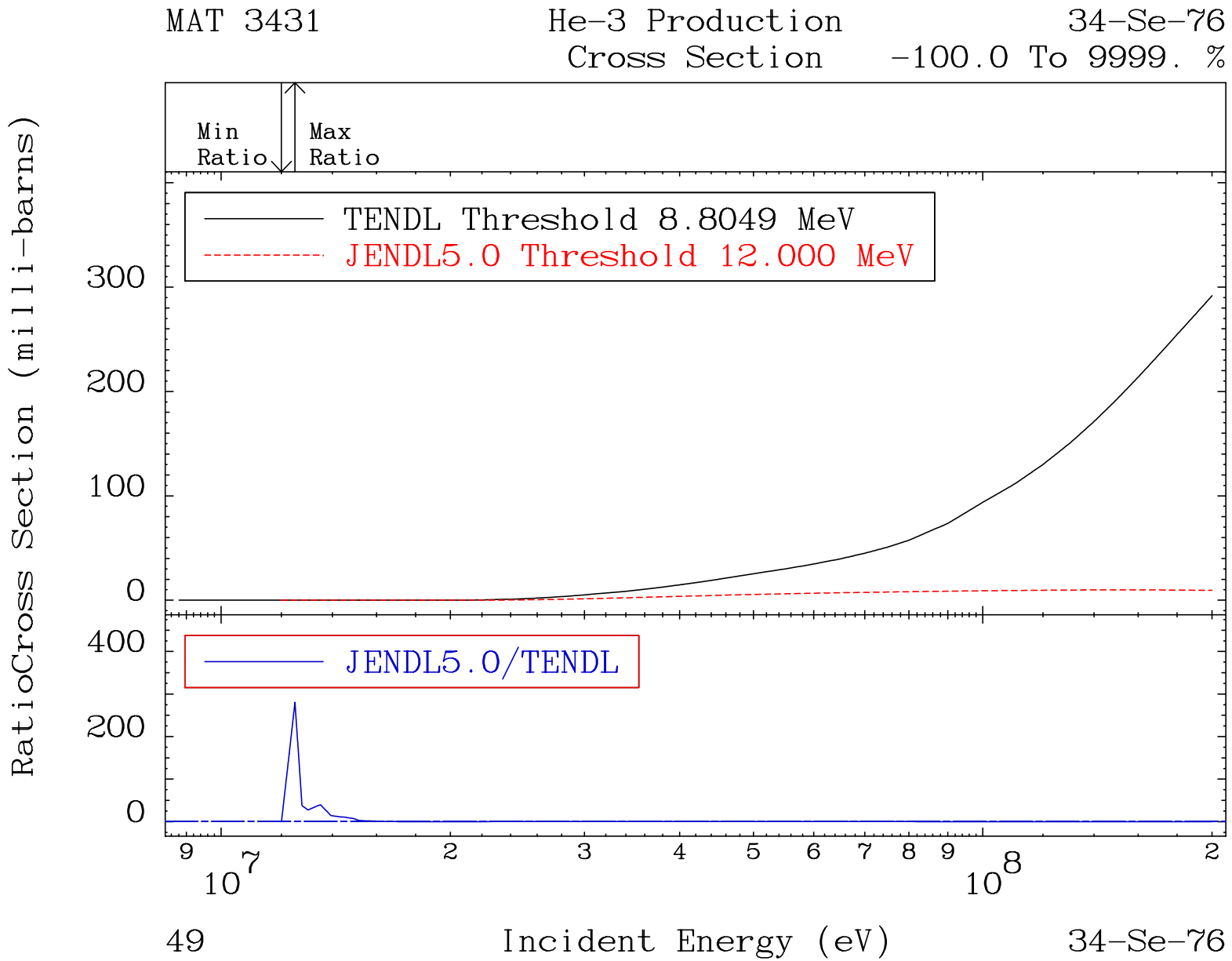

MAT 3431
(n,He-3)
34-Se-76
Cross Section
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.8049 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
44
34-Se-76

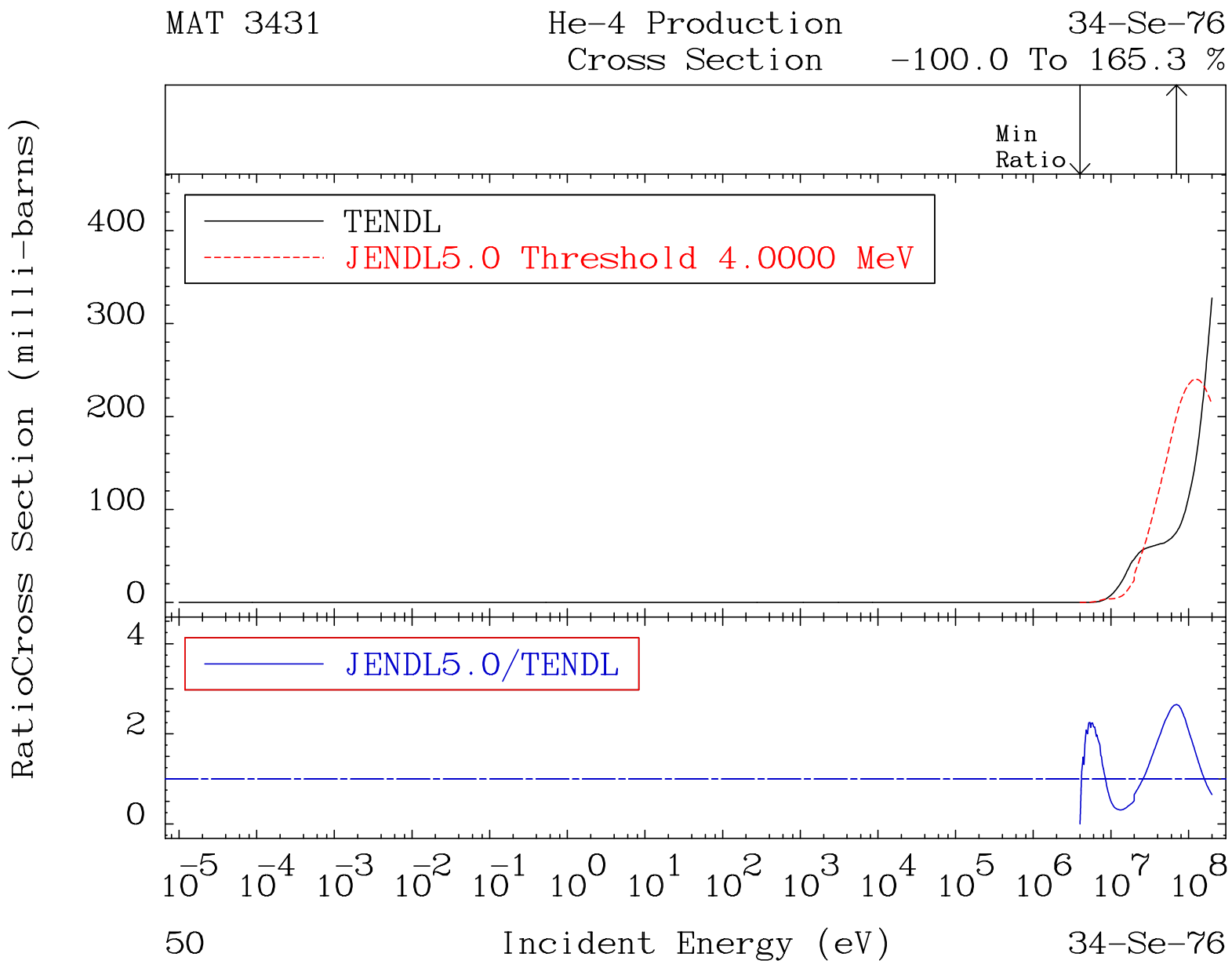

MAT 3431
(n,α)
Cross Section
34-Se-76
-100.0 To 125.5 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 4.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
3.0
2.0
1.0
0.0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
Incident Energy (eV)
45
34-Se-76

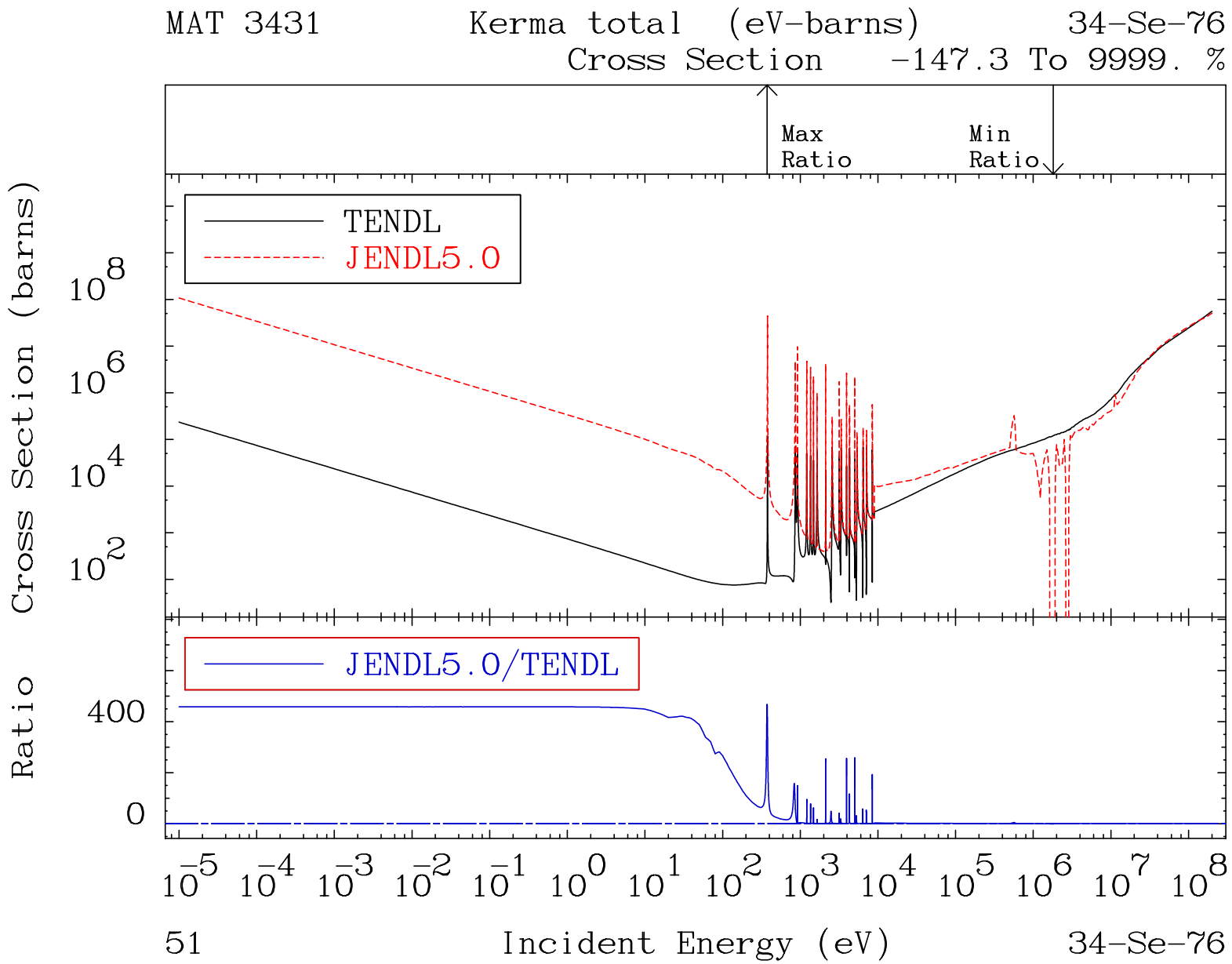

MAT 3431
Hydrogen Production
34-Se-76
Cross Section -100.0 To 188.4 %
Min Ratio
Max Ratio
TENDL Threshold 2.2072 MeV
JENDL5.0 Threshold 3.5000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
4
2
0
3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
46
34-Se-76

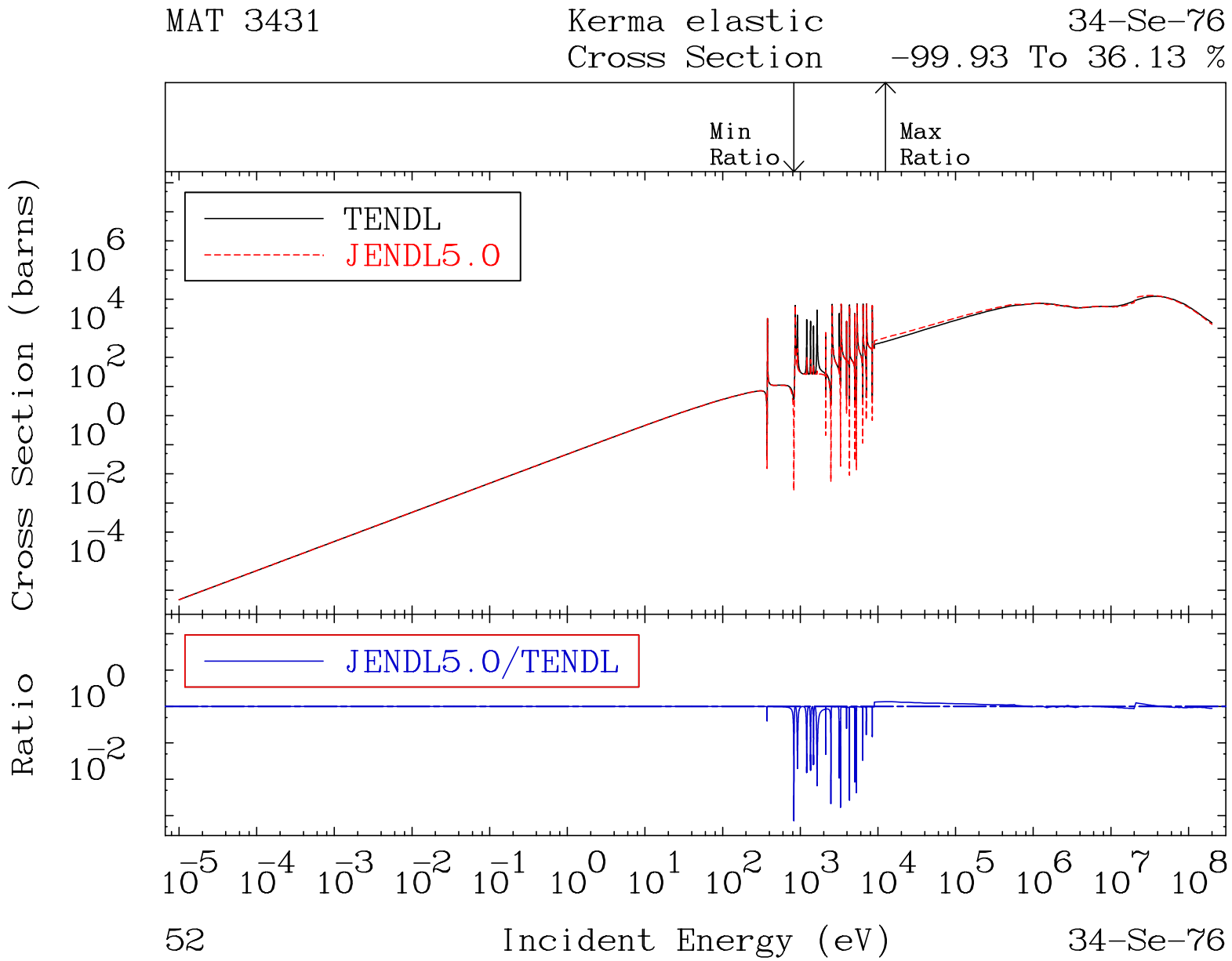

MAT 3431
Deuterium Production
34-Se-76
Cross Section
-100.0 To 143.2 %
Max
Ratio
TENDL Threshold 7.3789 MeV
JENDL5.0 Threshold 9.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2
0
8
10^7
2
3
4
5
6
7
8
10^8
2
47
Incident Energy (eV)
34-Se-76

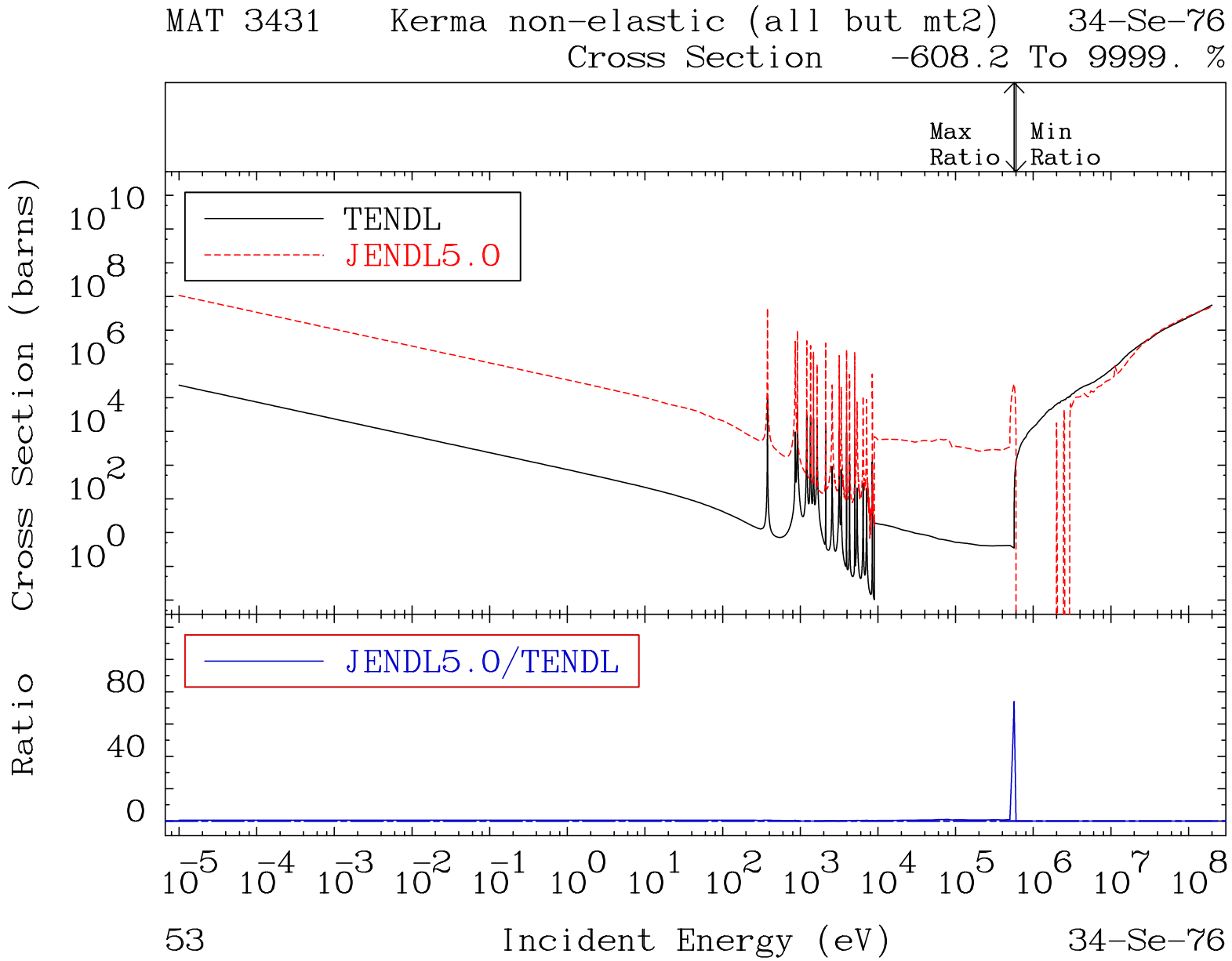

MAT 3431
Tritium Production
34-Se-76
Cross Section
-100.0 To 6242. %
Max
Ratio
160
120
80
40
0
TENDL Threshold 11.420 MeV
JENDL5.0 Threshold 13.000 MeV
80
40
0
JENDL5.0/TENDL
2
3
4
5
6
7
8
9
2
10^8
RatioCross Section (milli-barns)
48
Incident Energy (eV)
34-Se-76

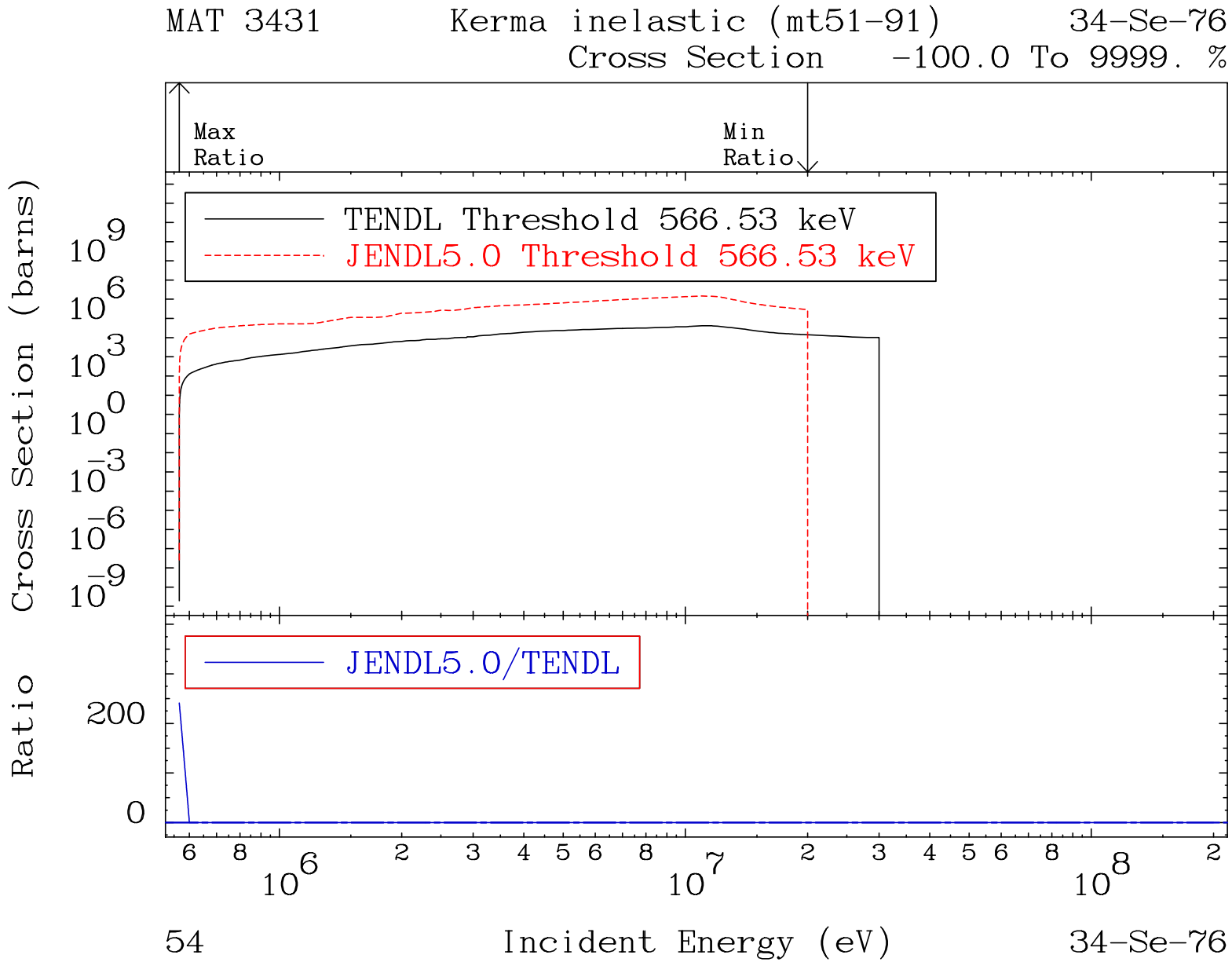

MAT 3431
He-3 Production
Cross Section
34-Se-76
-100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 8.8049 MeV
JENDL5.0 Threshold 12.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
300
200
100
0
400
200
0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
49
Incident Energy (eV)
34-Se-76

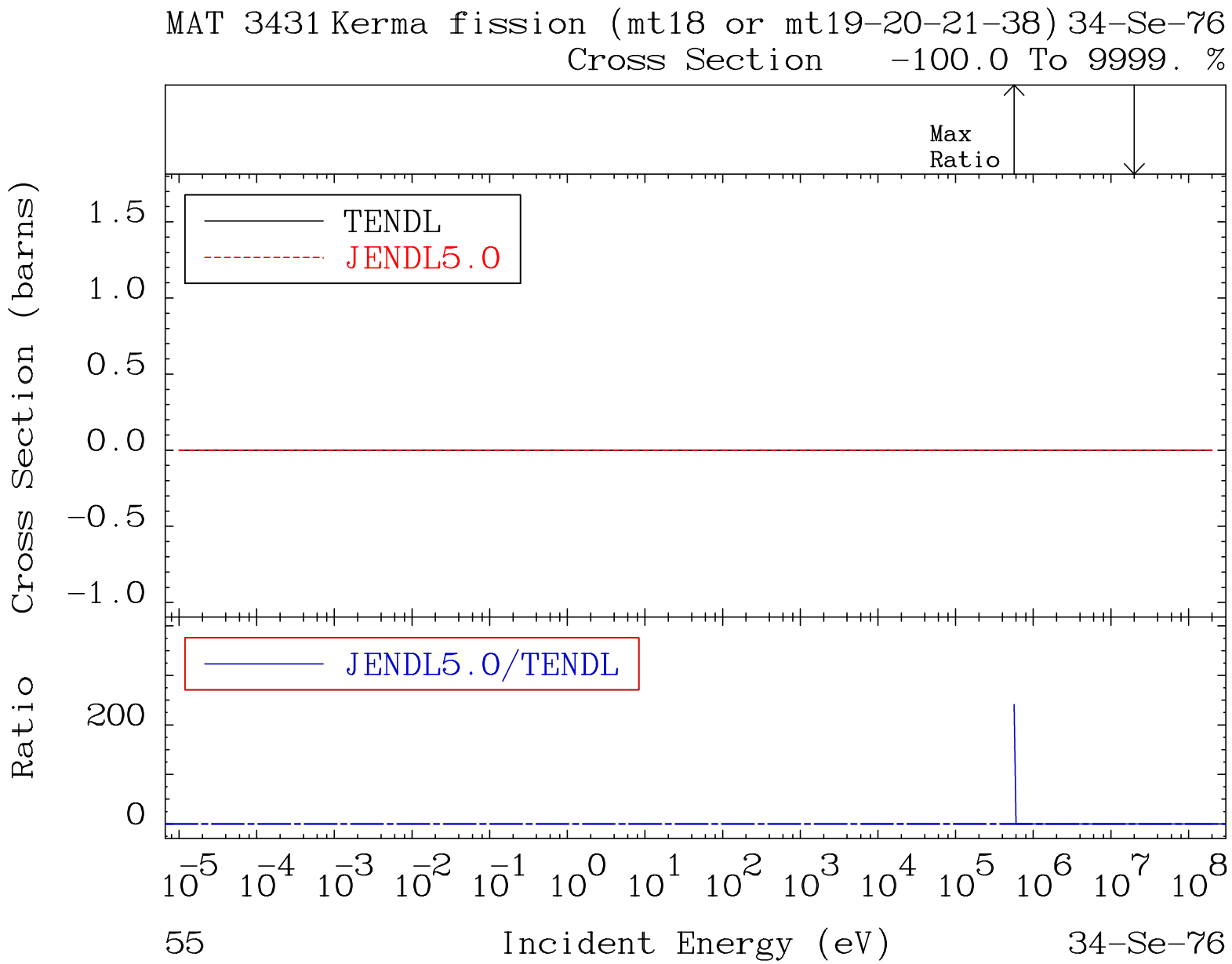

MAT 3431
He-4 Production
Cross Section
34-Se-76
-100.0 To 165.3 %
Min
Ratio
TENDL
JENDL5.0 Threshold 4.0000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
50
Incident Energy (eV)
34-Se-76

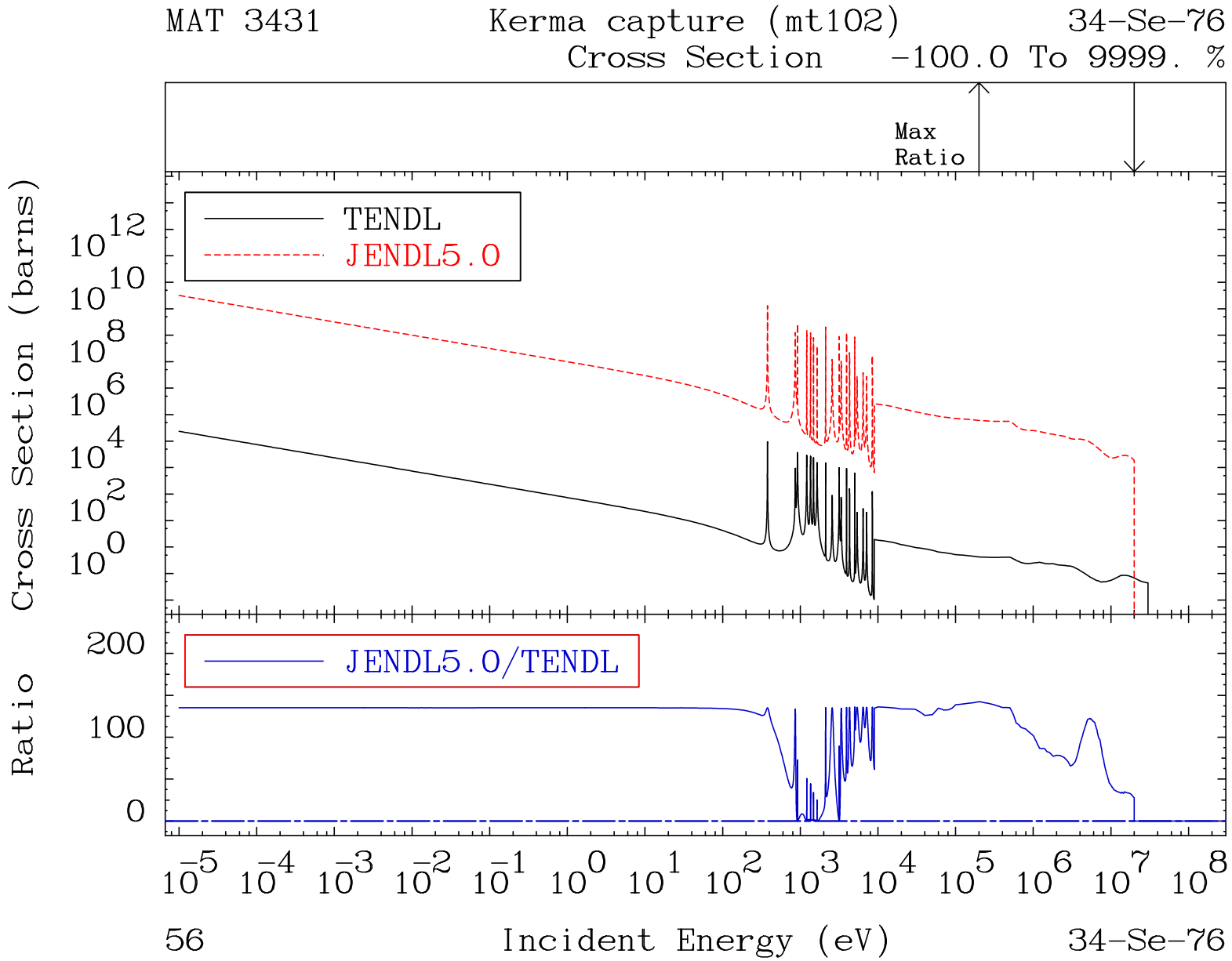

MAT 3431
Kerma total (eV-barns)
34-Se-76
Cross Section -147.3 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
10^8
10^6
10^4
10^2
JENDL5.0/TENDL
Ratio
400
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
51
Incident Energy (eV)
34-Se-76

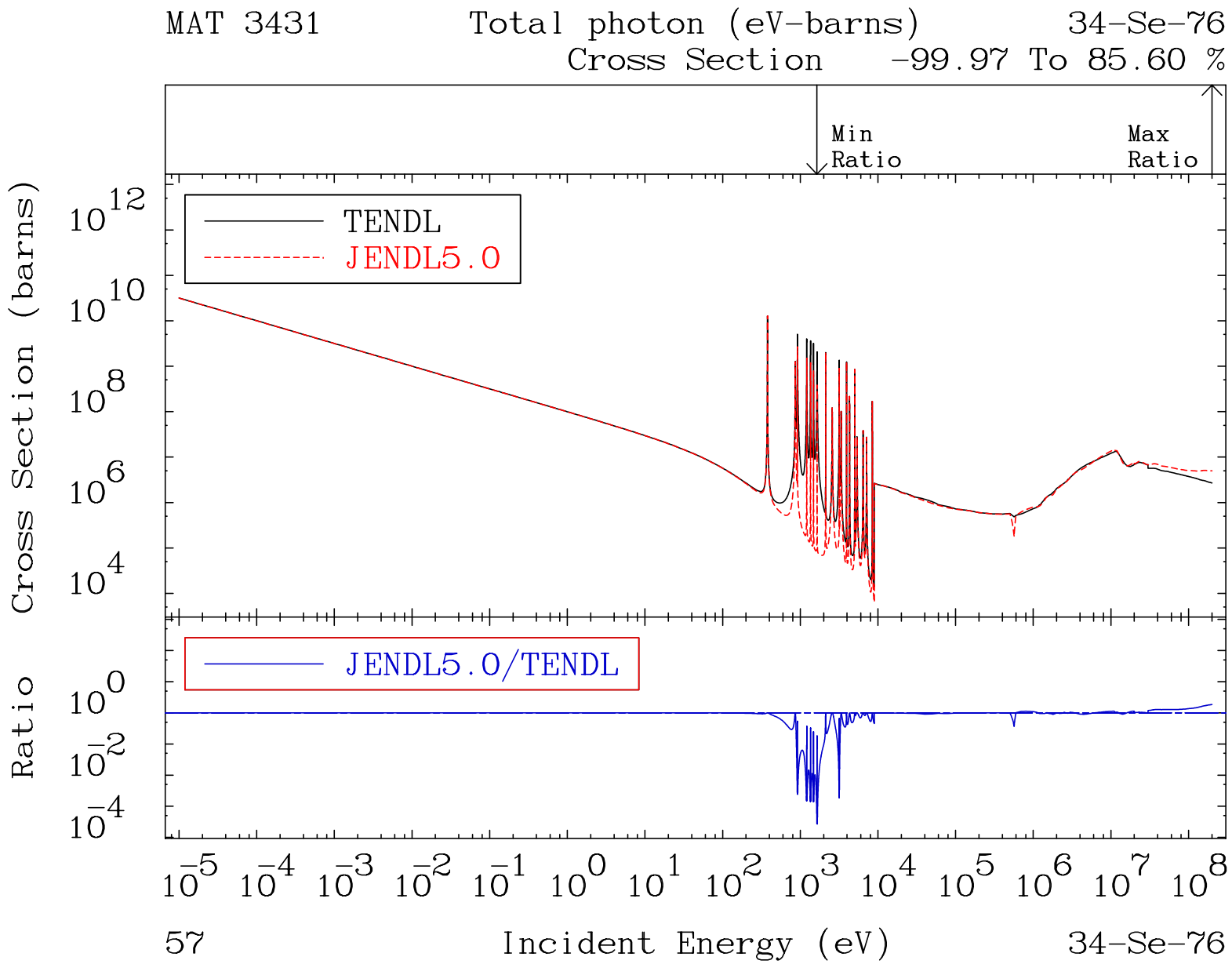

MAT 3431
Kerma elastic
Cross Section
34-Se-76
-99.93 To 36.13 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
34-Se-76

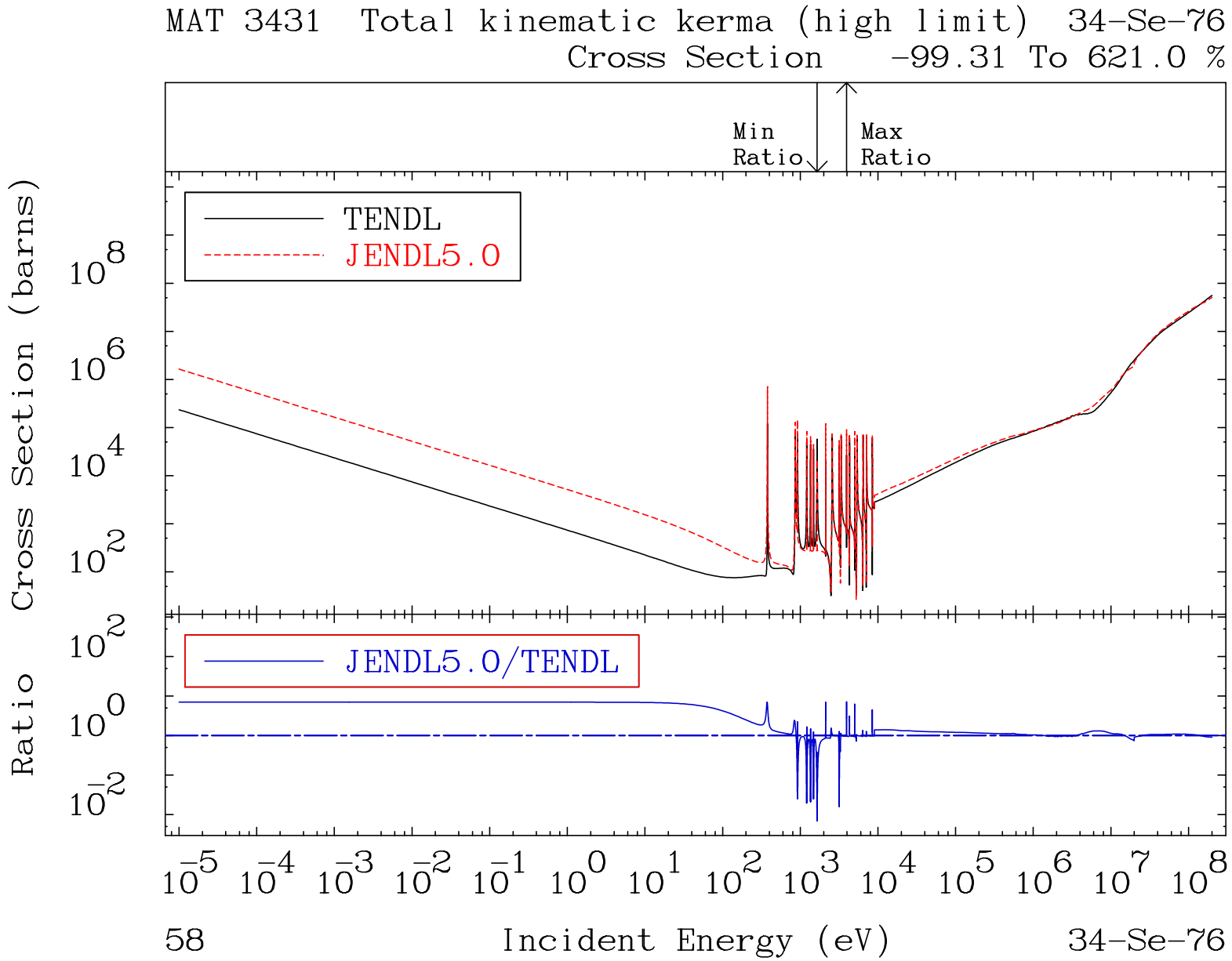

MAT 3431 Kerma non-elastic (all but mt2) 34-Se-76
Cross Section -608.2 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
53
34-Se-76

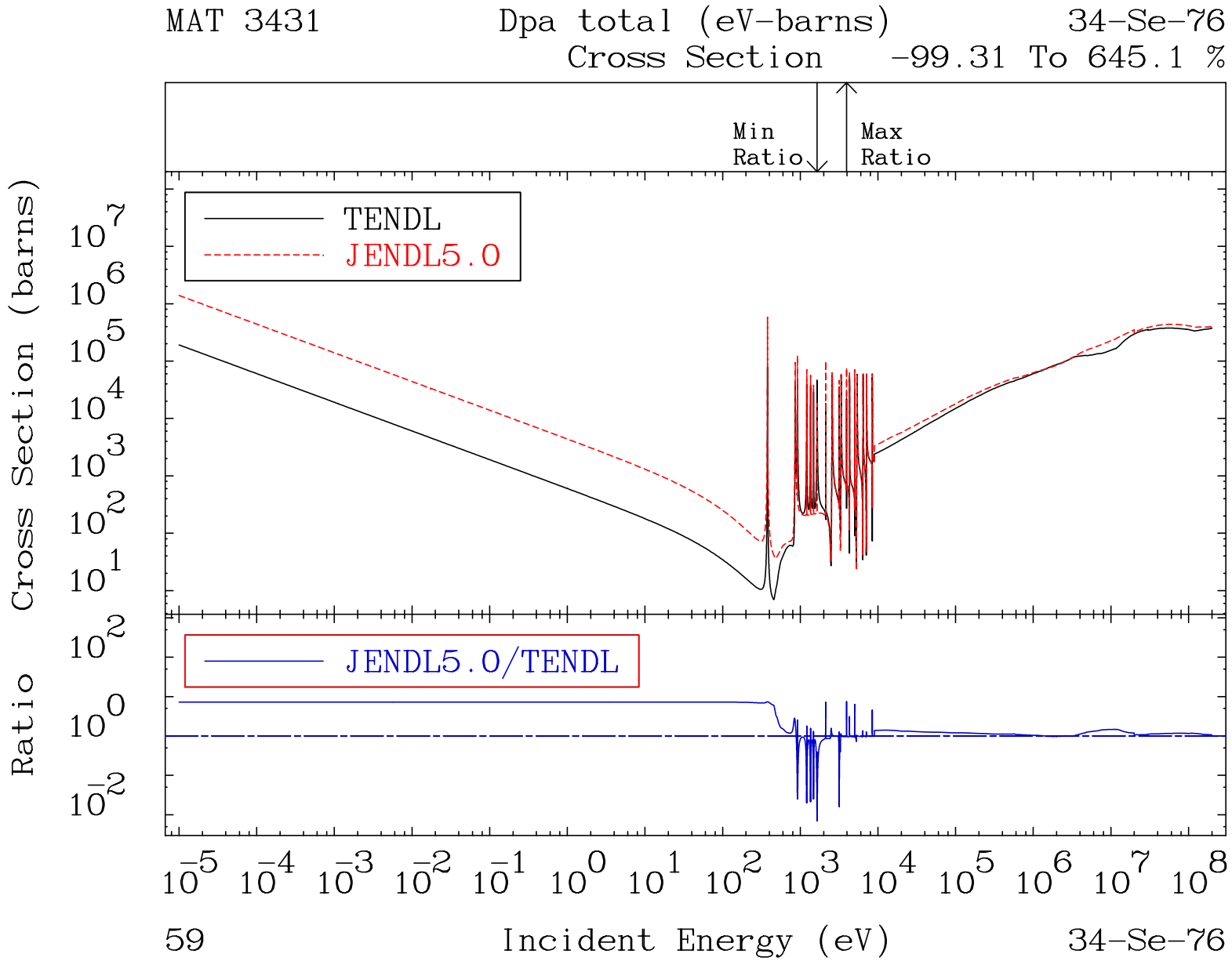

MAT 3431
Kerma inelastic (mt51-91)
34-Se-76
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
JENDL5.0 Threshold 566.53 keV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
54
34-Se-76

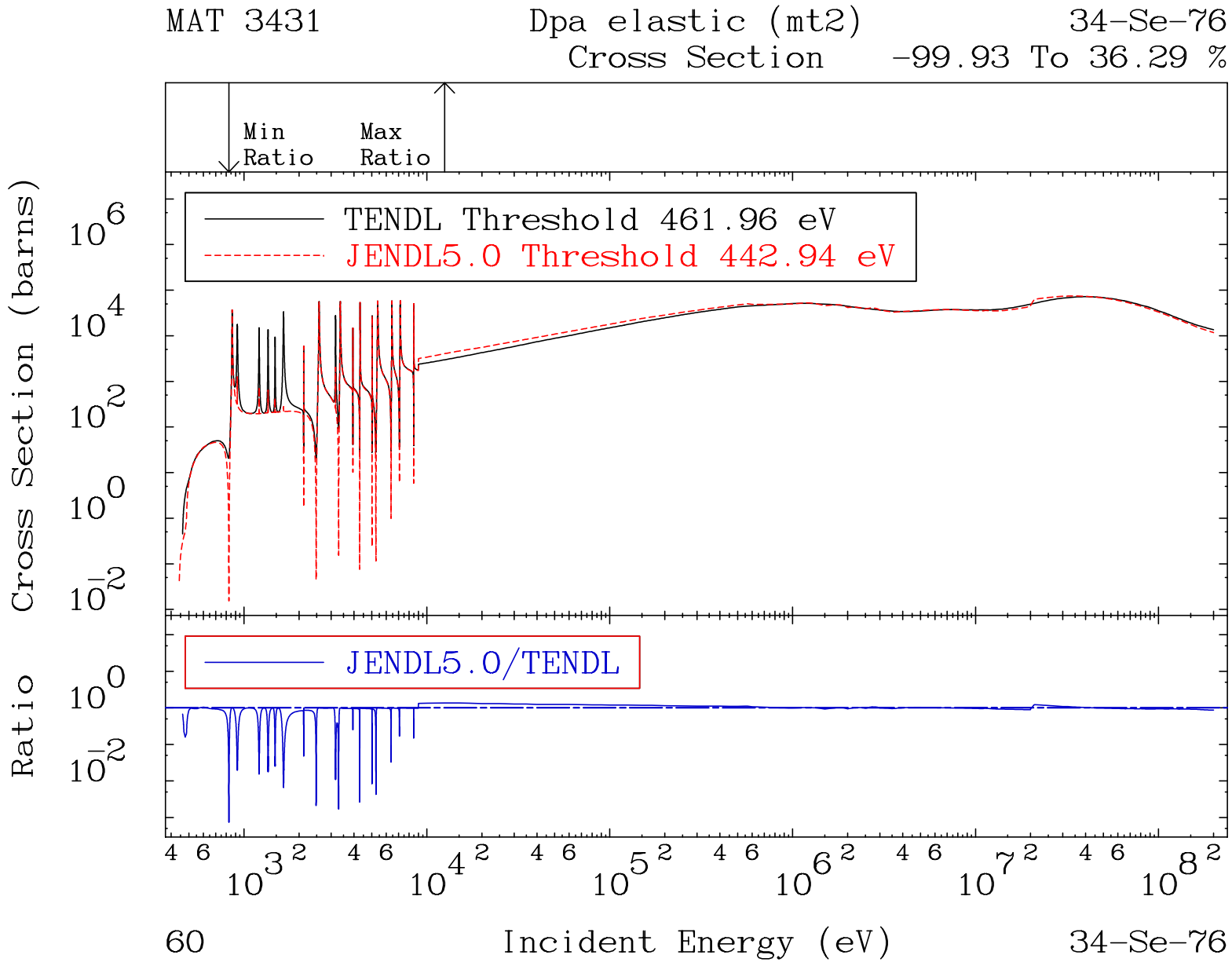

MAT 3431 Kerma fission (mt18 or mt19-20-21-38) 34-Se-76
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
200
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
55
Incident Energy (eV)
34-Se-76

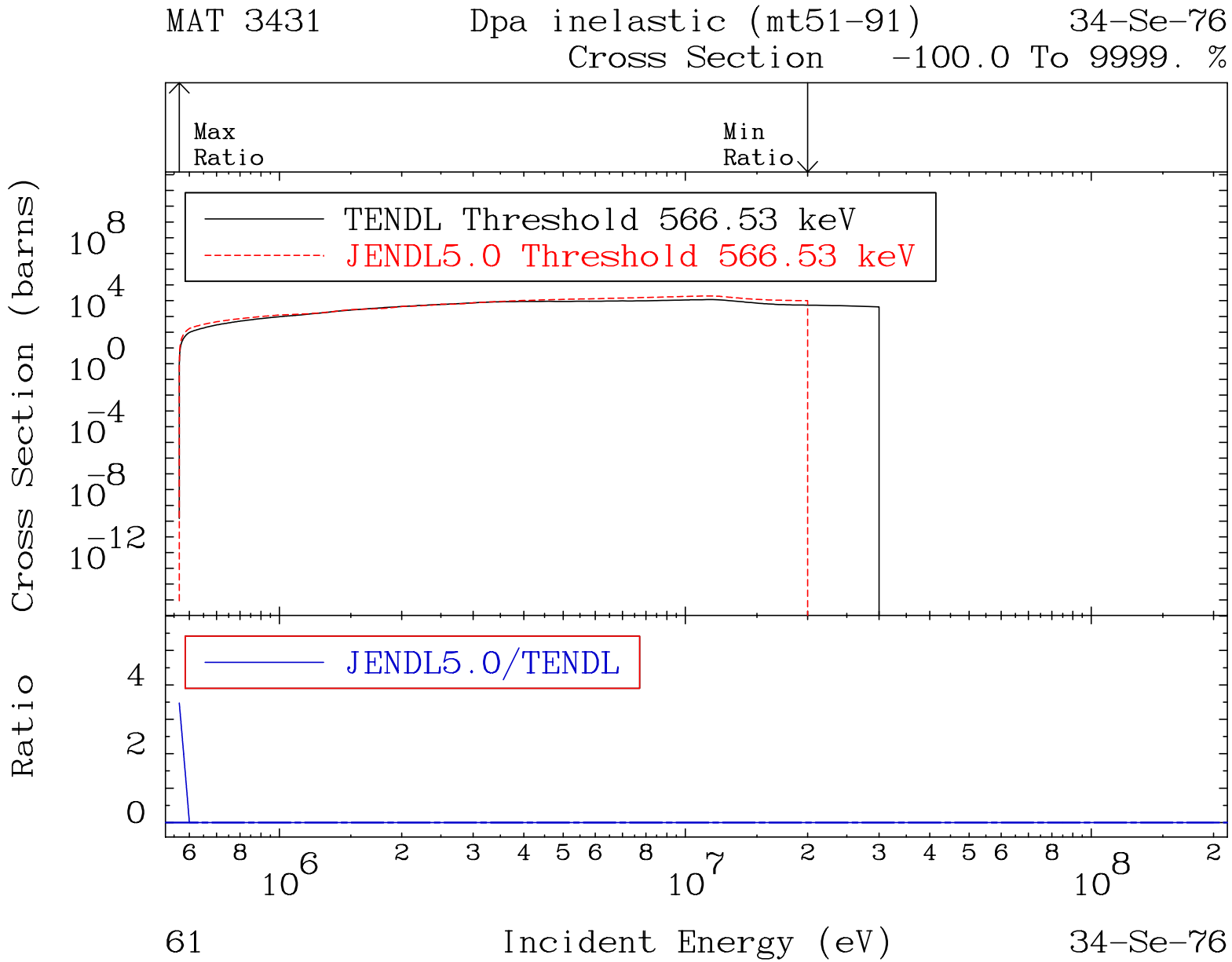

MAT 3431
Kerma capture (mt102)
34-Se-76
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
56
34-Se-76

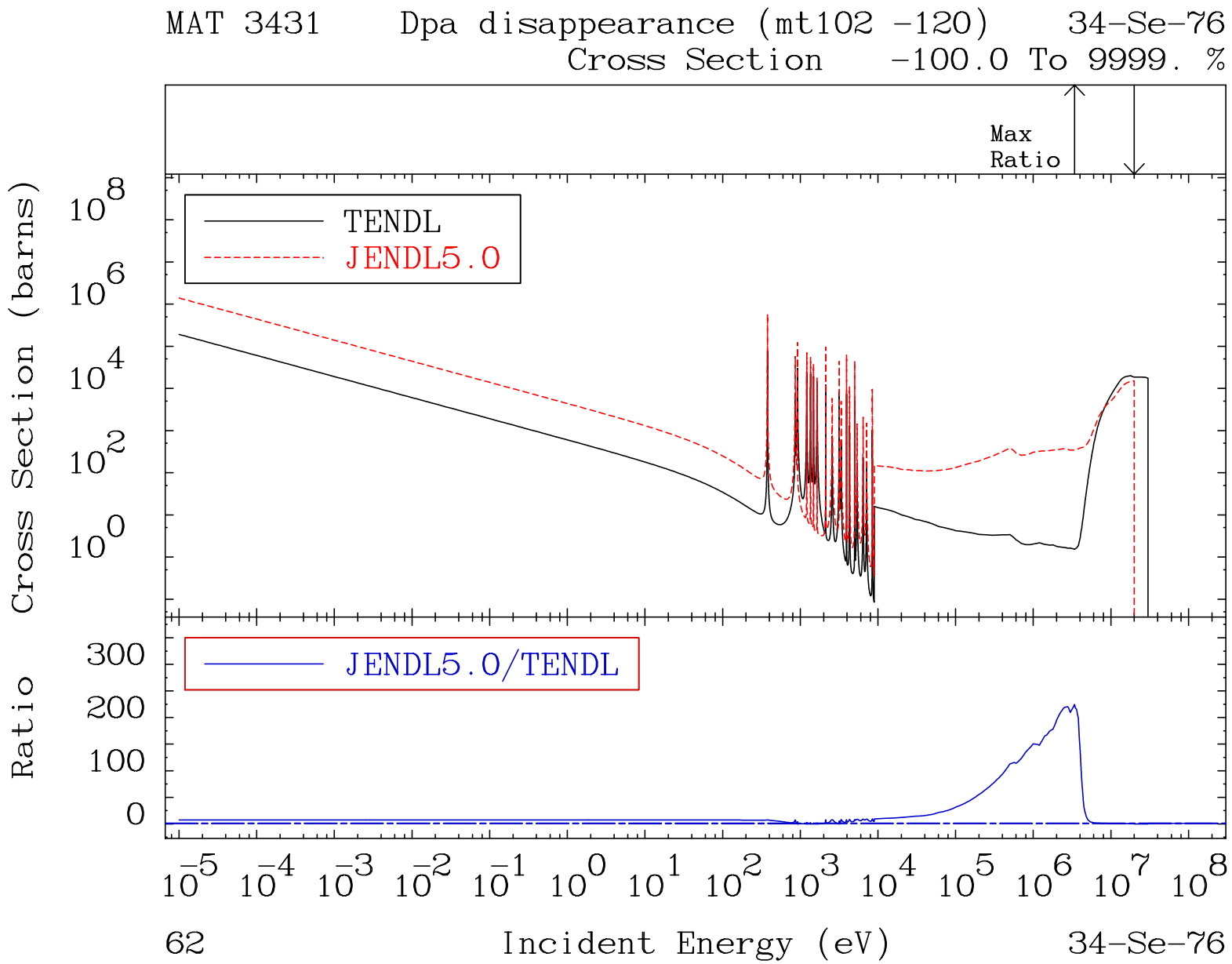

MAT 3431
Total photon (eV-barns)
34-Se-76
Cross Section -99.97 To 85.60 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
57
34-Se-76

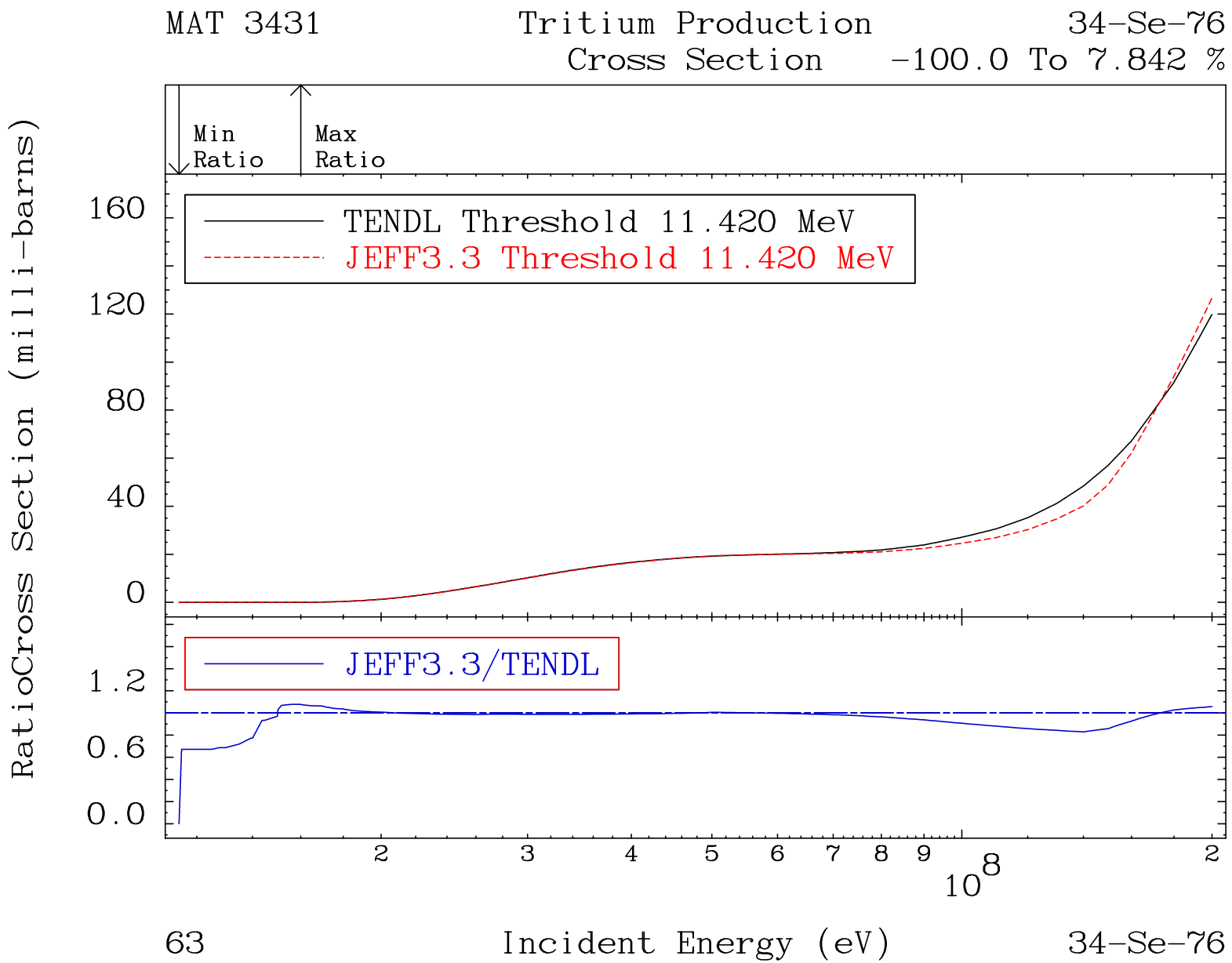

MAT 3431 Total kinematic kerma (high limit) 34-Se-76
Cross Section -99.31 To 621.0 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
58
34-Se-76

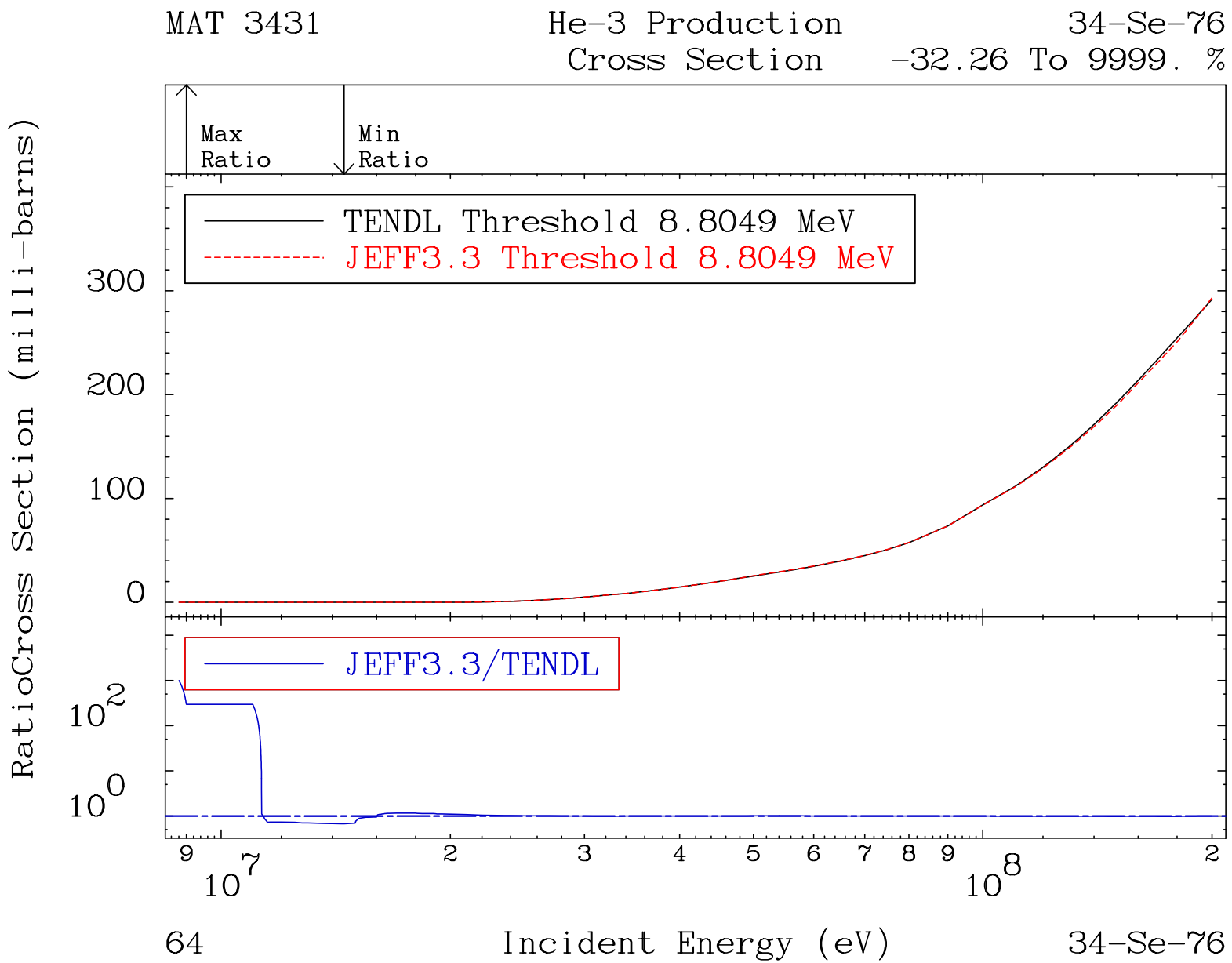

MAT 3431
Dpa total (eV-barns)
34-Se-76
Cross Section
-99.31 To 645.1 %
Min Ratio
Max Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
59
34-Se-76

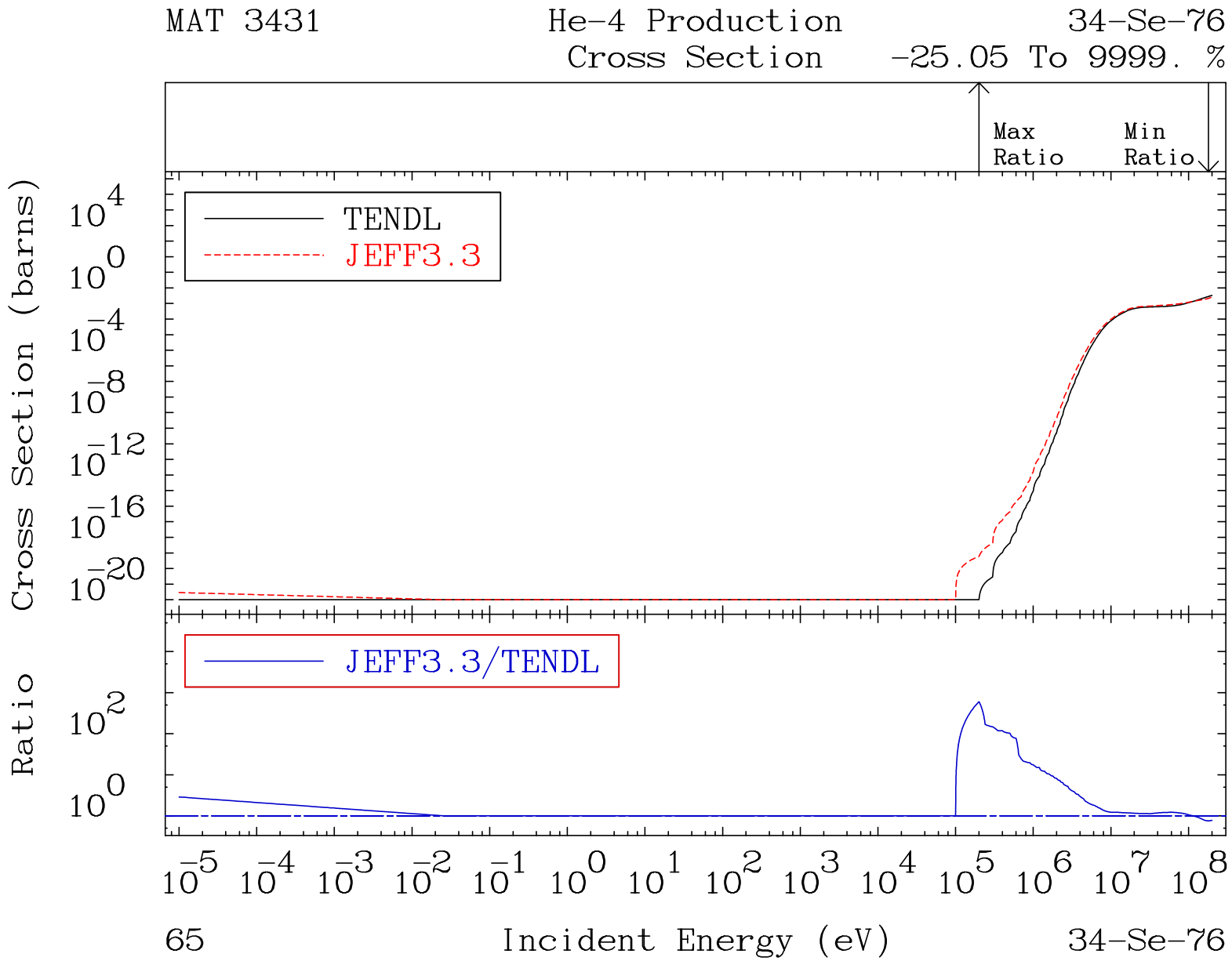

MAT 3431
Dpa elastic (mt2)
Cross Section
34-Se-76
-99.93 To 36.29 %
Min Ratio
Max Ratio
TENDL Threshold 461.96 eV
JENDL5.0 Threshold 442.94 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
60
34-Se-76

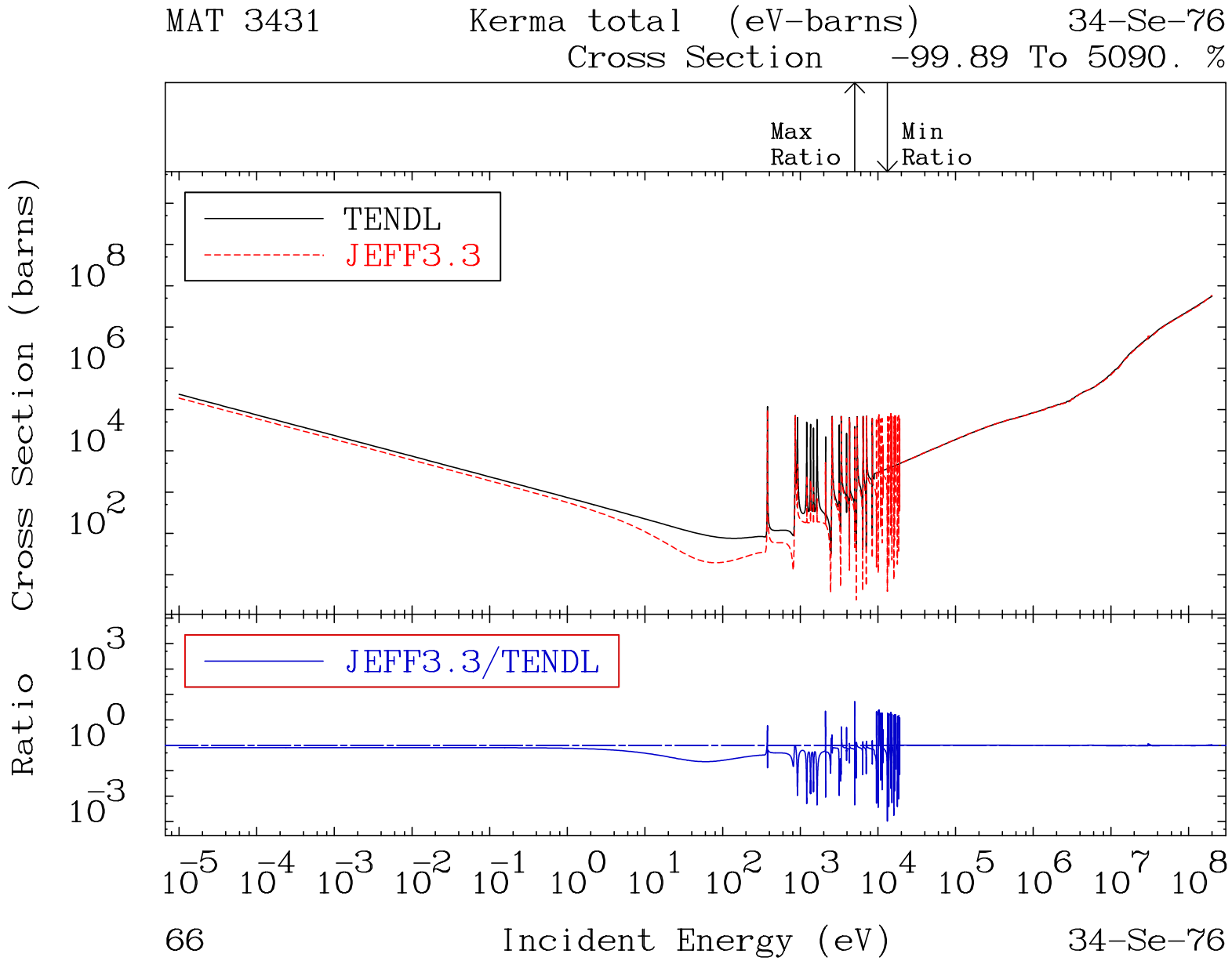

MAT 3431
Dpa inelastic (mt51-91)
34-Se-76
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
JENDL5.0 Threshold 566.53 keV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
61
34-Se-76

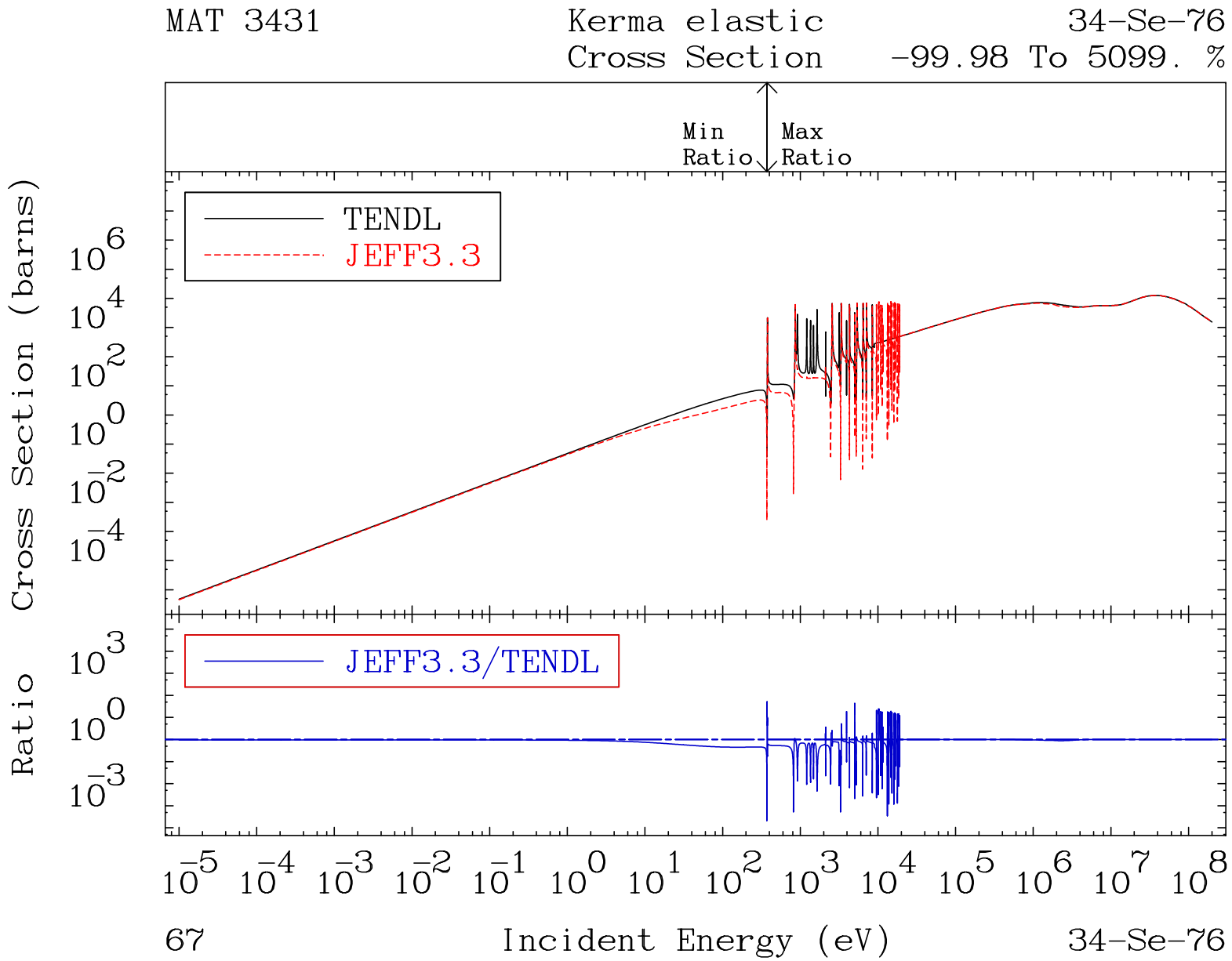

MAT 3431 Dpa disappearance (mt102 -120) 34-Se-76
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
62
34-Se-76

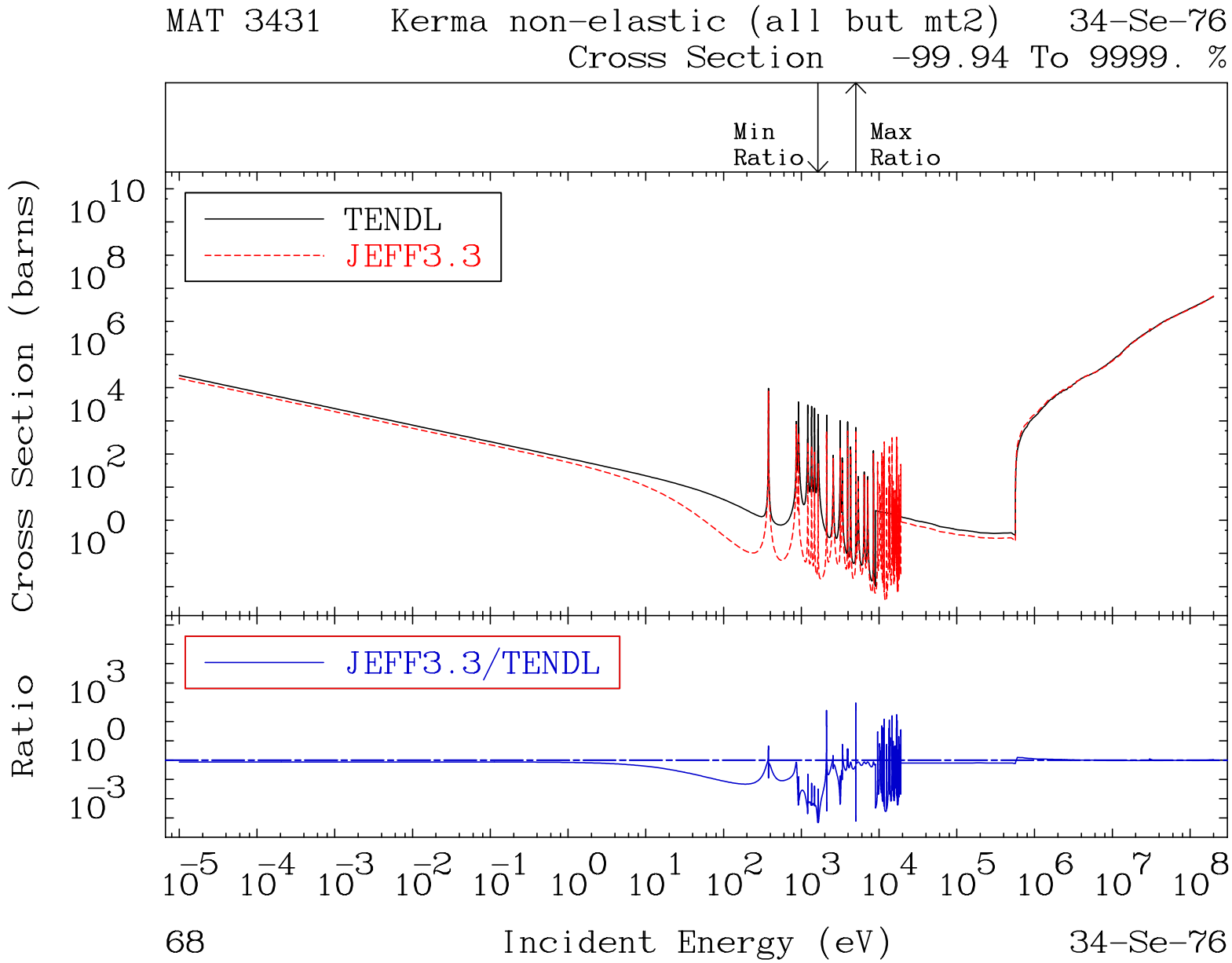

MAT 3431
Tritium Production
34-Se-76
Cross Section
-100.0 To 7.842 %
Min Ratio
Max Ratio
TENDL Threshold 11.420 MeV
JEFF3.3 Threshold 11.420 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
63
Incident Energy (eV)
34-Se-76

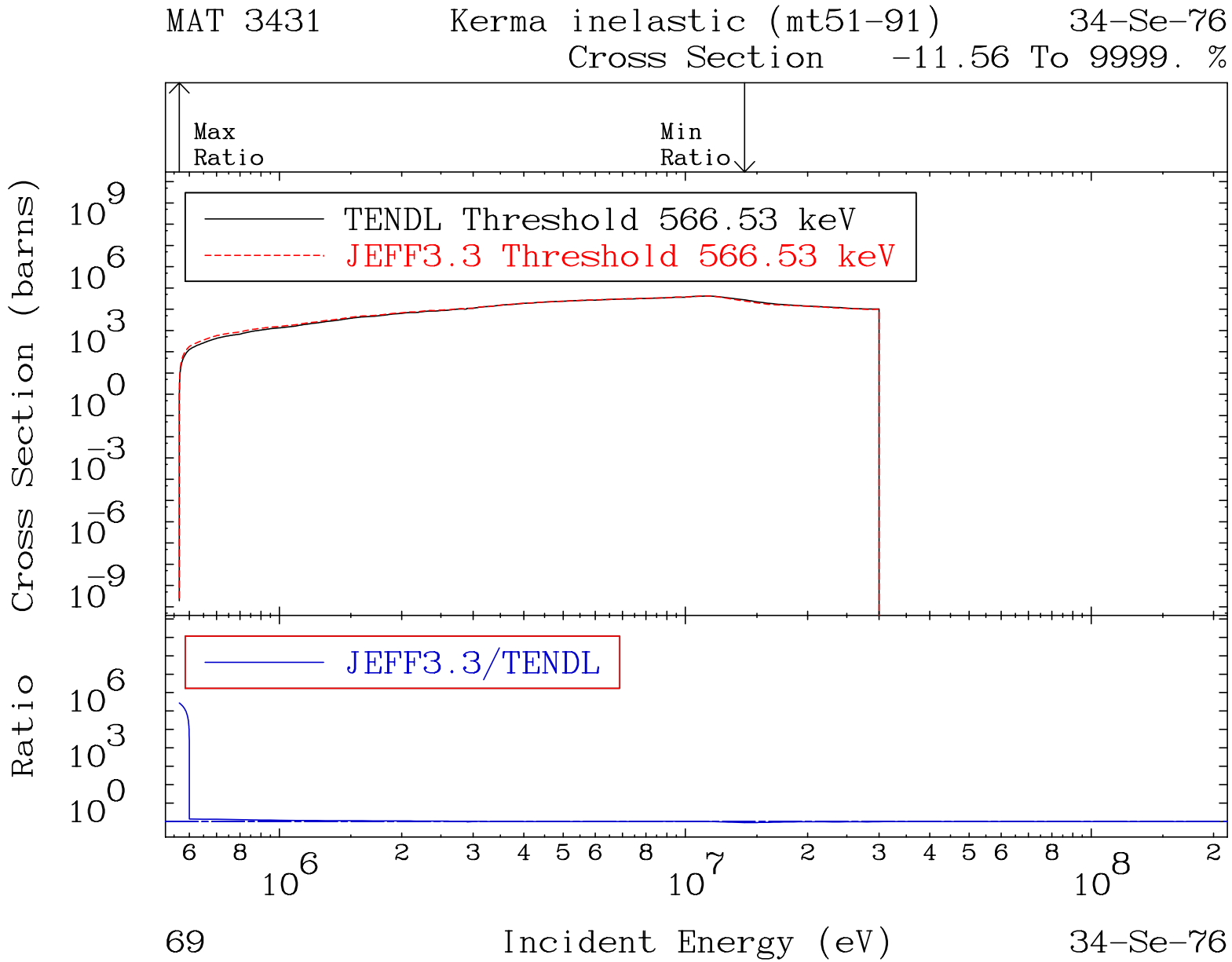

MAT 3431
He-3 Production
34-Se-76
Cross Section
-32.26 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.8049 MeV
JEFF3.3 Threshold 8.8049 MeV
JEFF3.3/TENDL
RatioCross Section (milli-barns)
300
200
100
0
10^2
10^0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
64
Incident Energy (eV)
34-Se-76

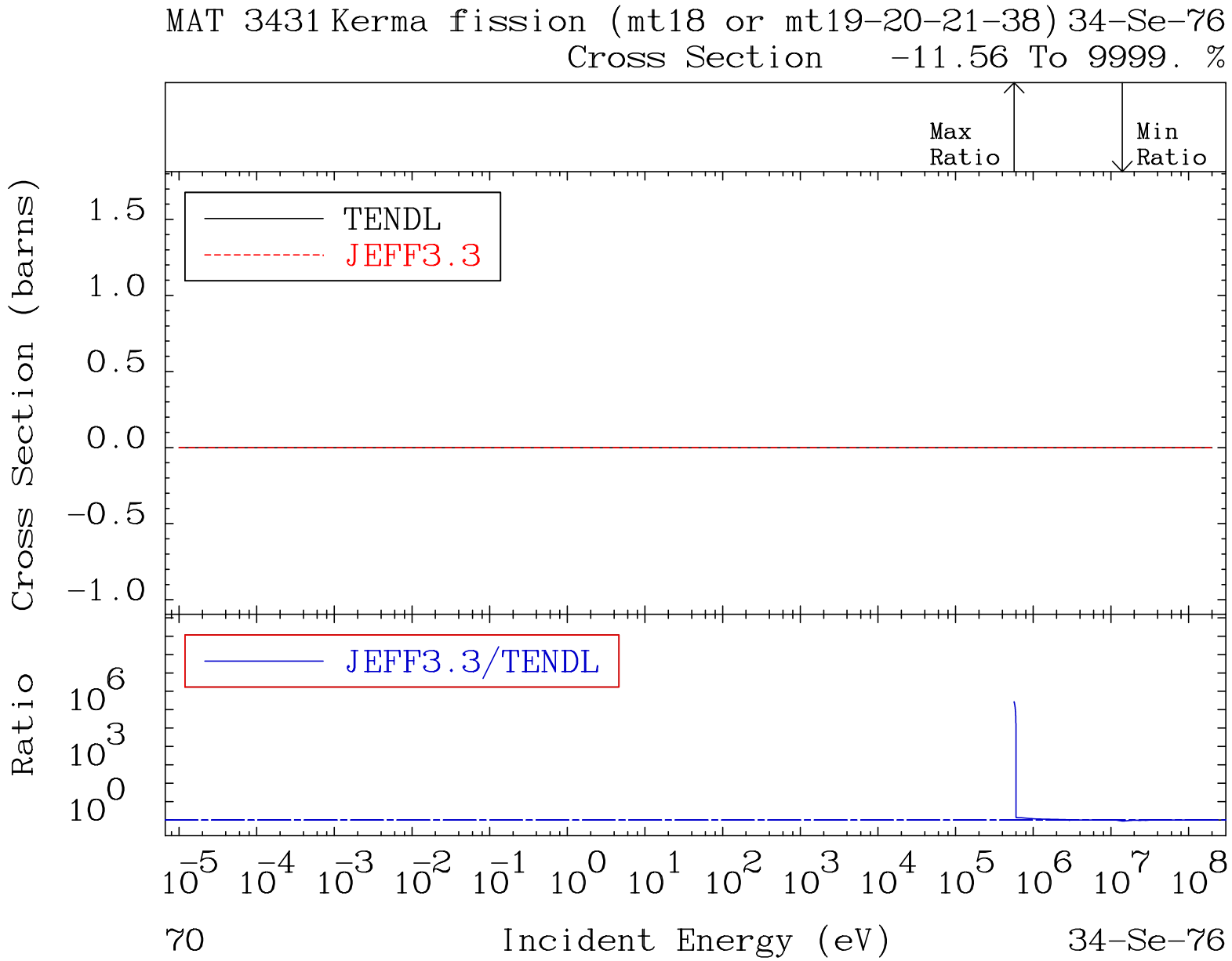

MAT 3431
He-4 Production
Cross Section
34-Se-76
-25.05 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
65
34-Se-76

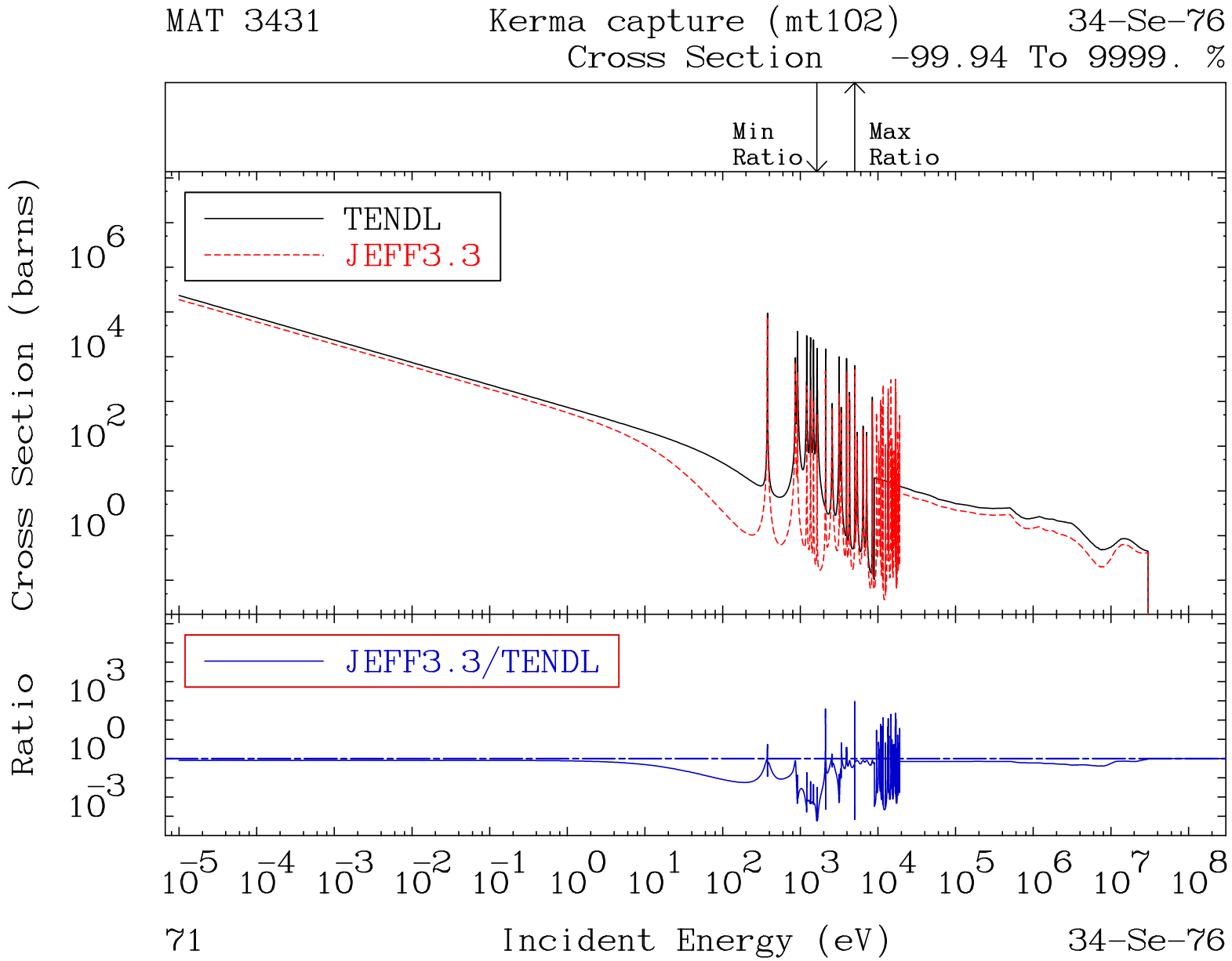

MAT 3431
Kerma total (eV-barns)
34-Se-76
Cross Section -99.89 To 5090. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
66
34-Se-76

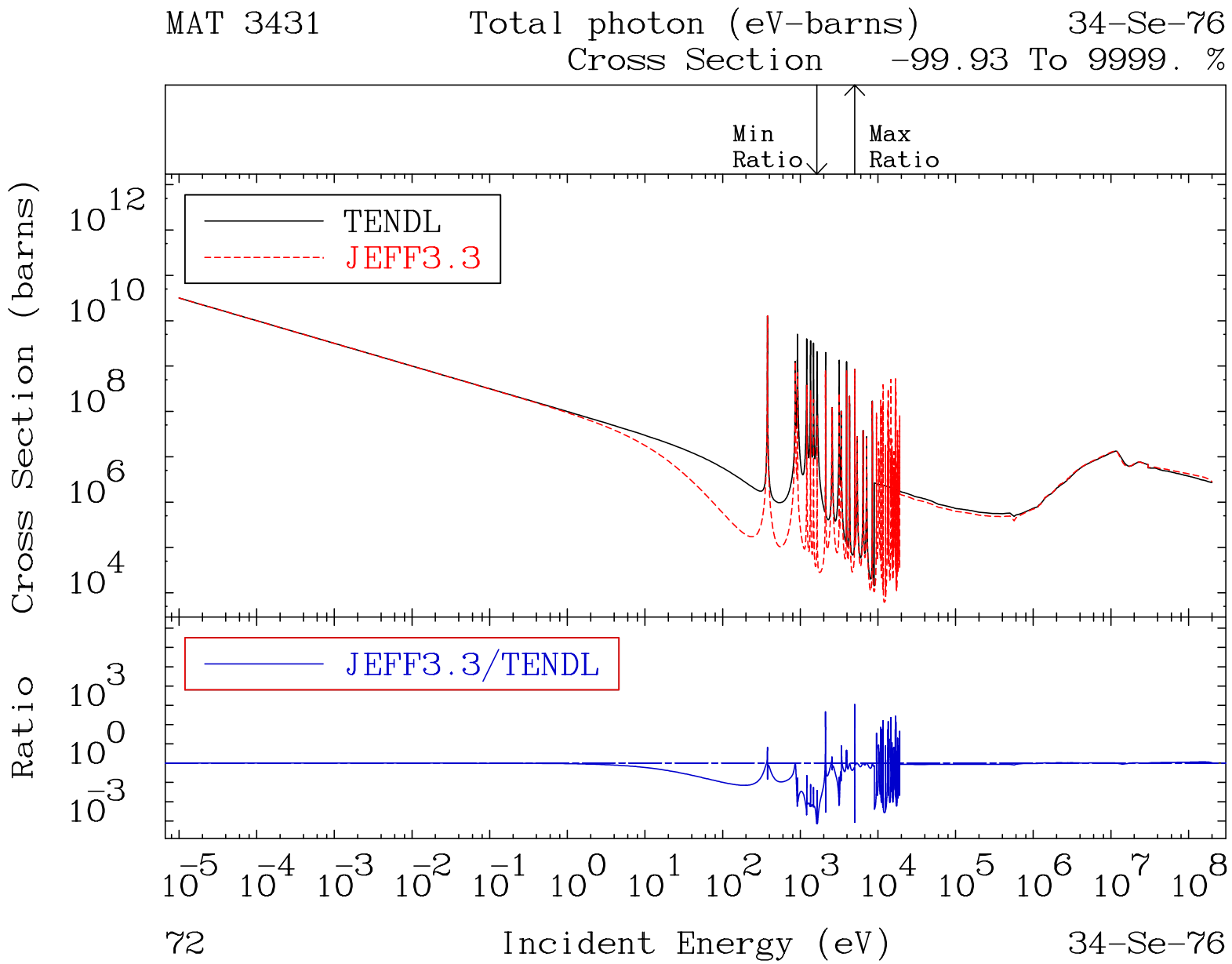

MAT 3431
Kerma elastic
Cross Section
34-Se-76
-99.98 To 5099. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
67
34-Se-76

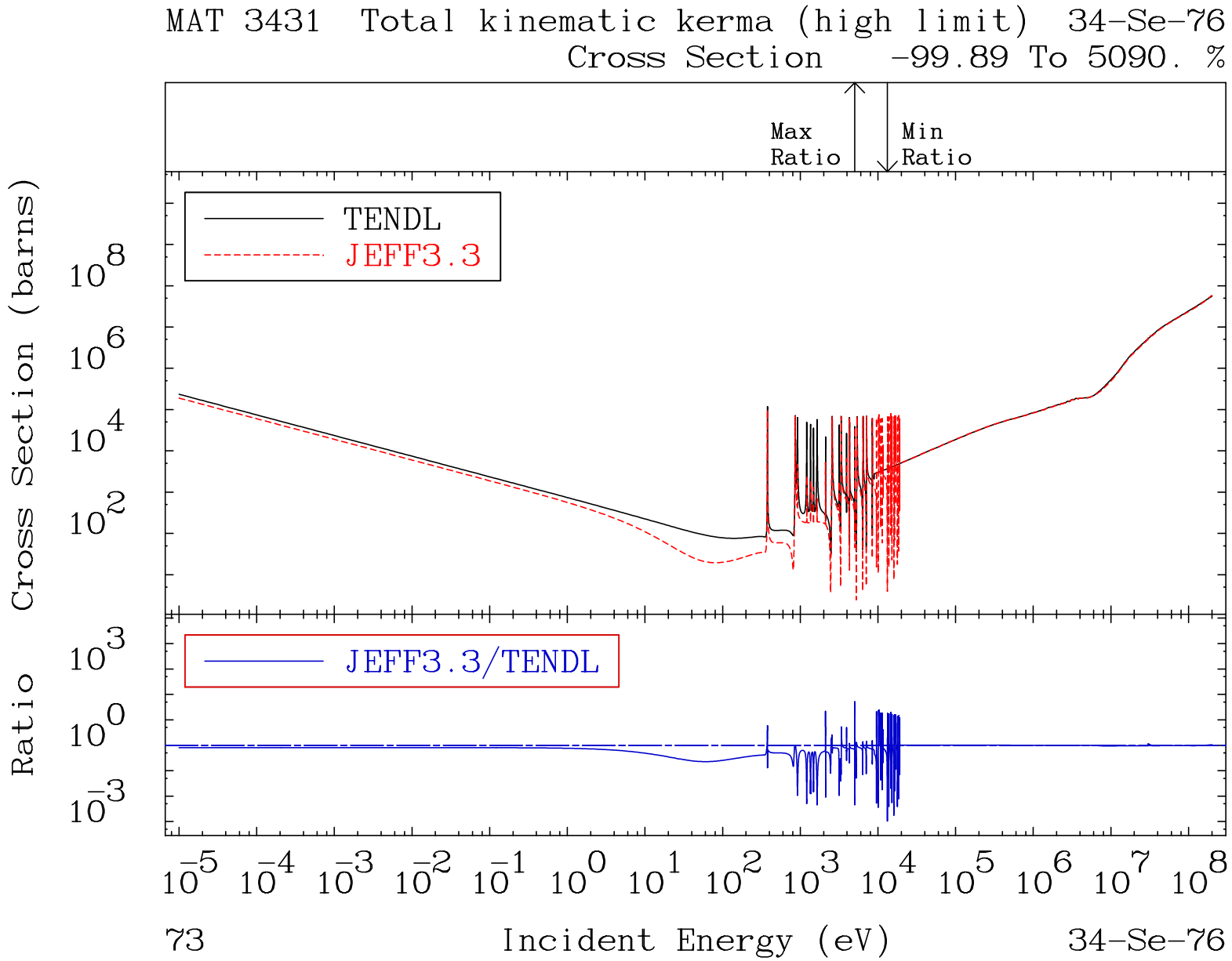

MAT 3431 Kerma non-elastic (all but mt2) 34-Se-76
Cross Section -99.94 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
68
34-Se-76

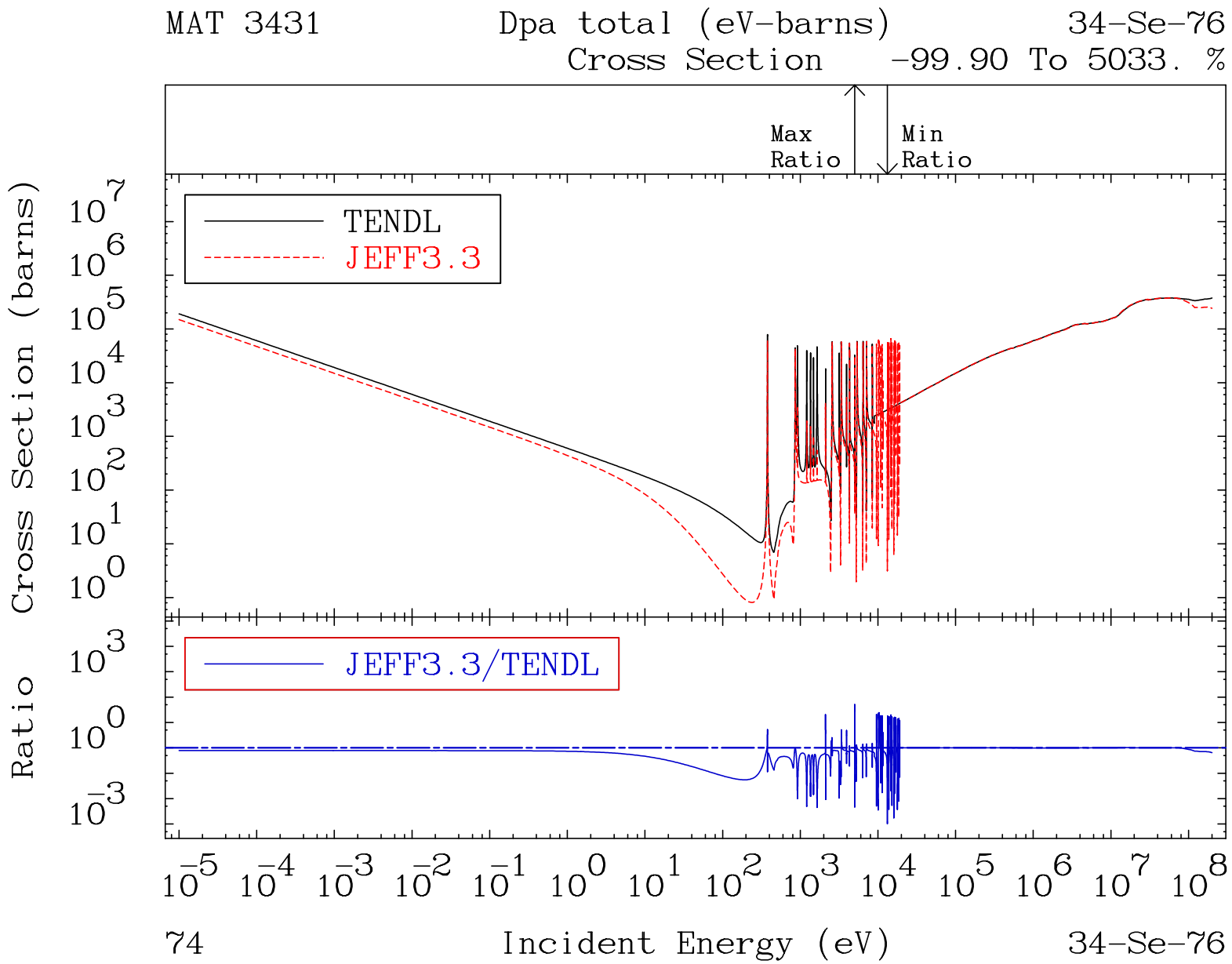

MAT 3431
Kerma inelastic (mt51-91)
34-Se-76
Cross Section -11.56 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
JEFF3.3 Threshold 566.53 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
69
34-Se-76

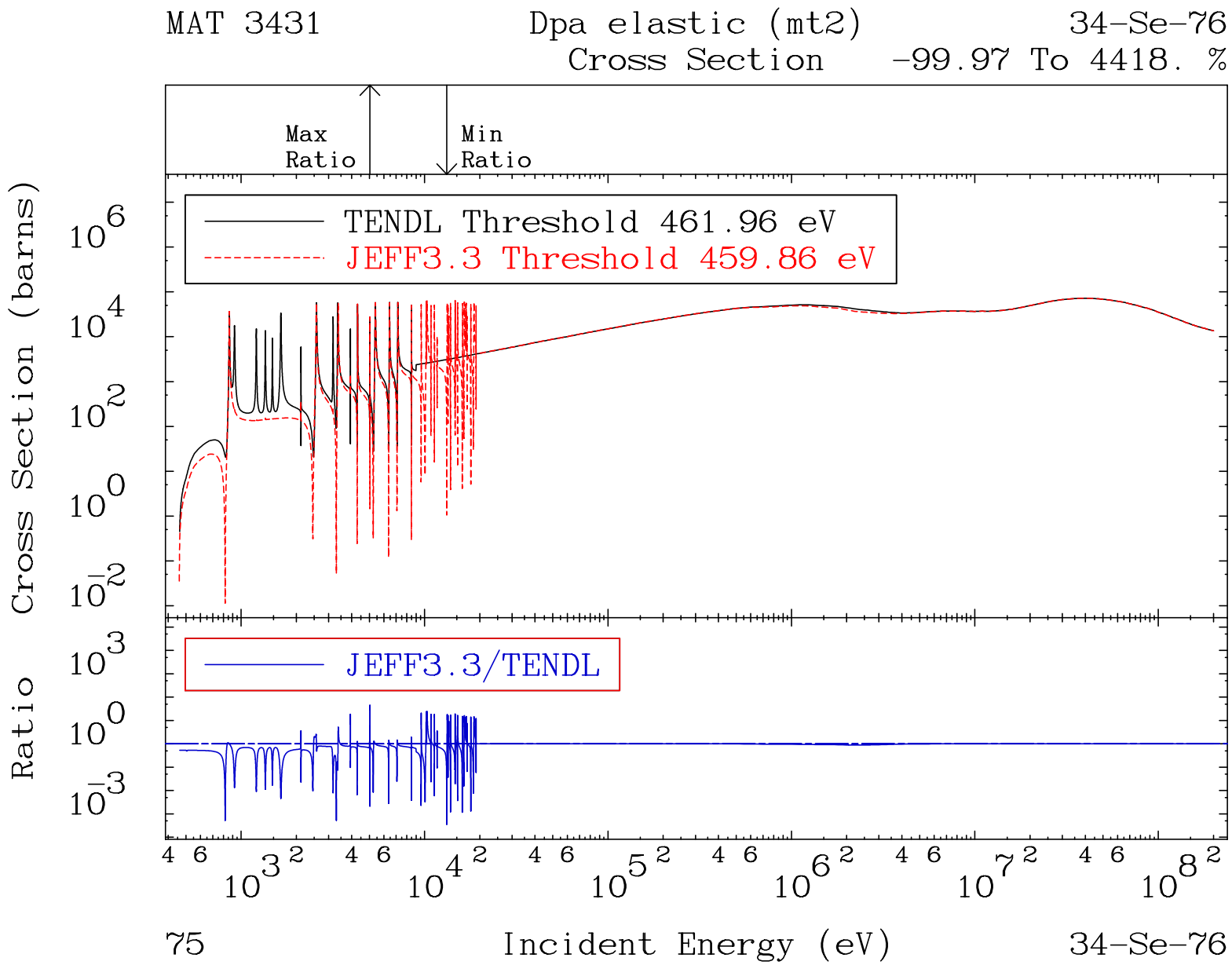

MAT 3431 Kerma fission (mt18 or mt19-20-21-38) 34-Se-76
Cross Section -11.56 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{6}
10^{3}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
70
Incident Energy (eV)
34-Se-76

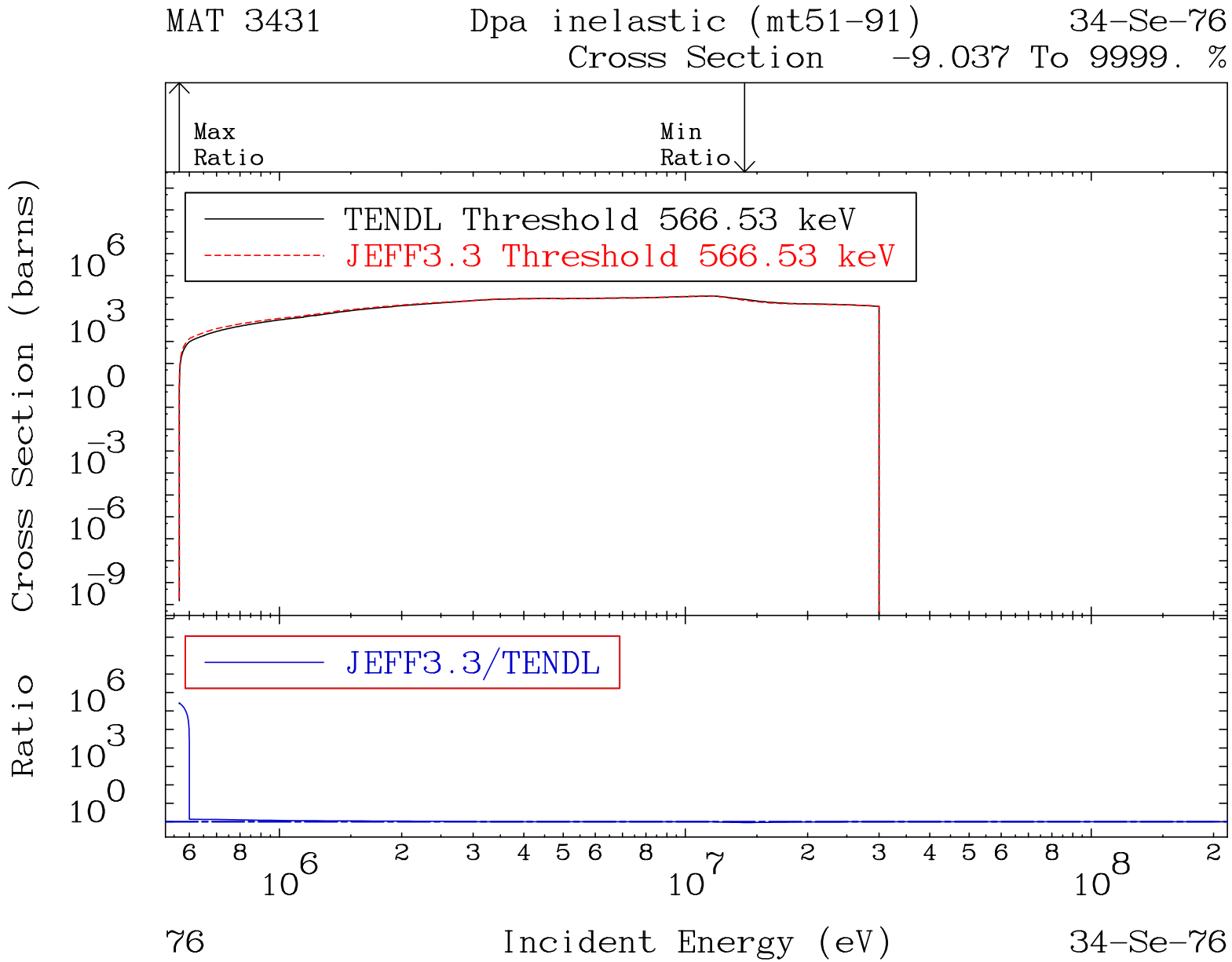

MAT 3431
Kerma capture (mt102)
34-Se-76
Cross Section -99.94 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
71
34-Se-76

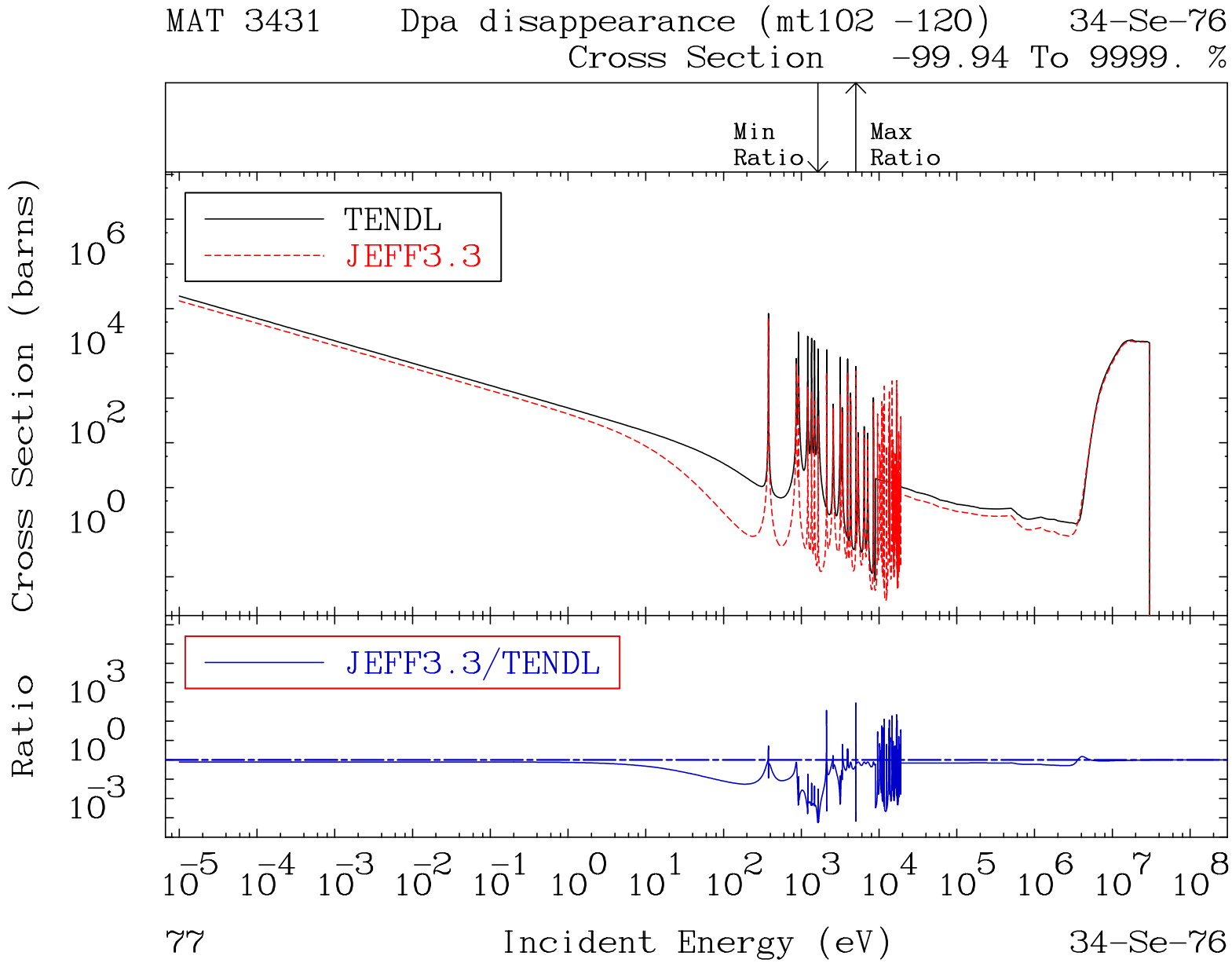

MAT 3431
Total photon (eV-barns)
34-Se-76
Cross Section -99.93 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
72
34-Se-76

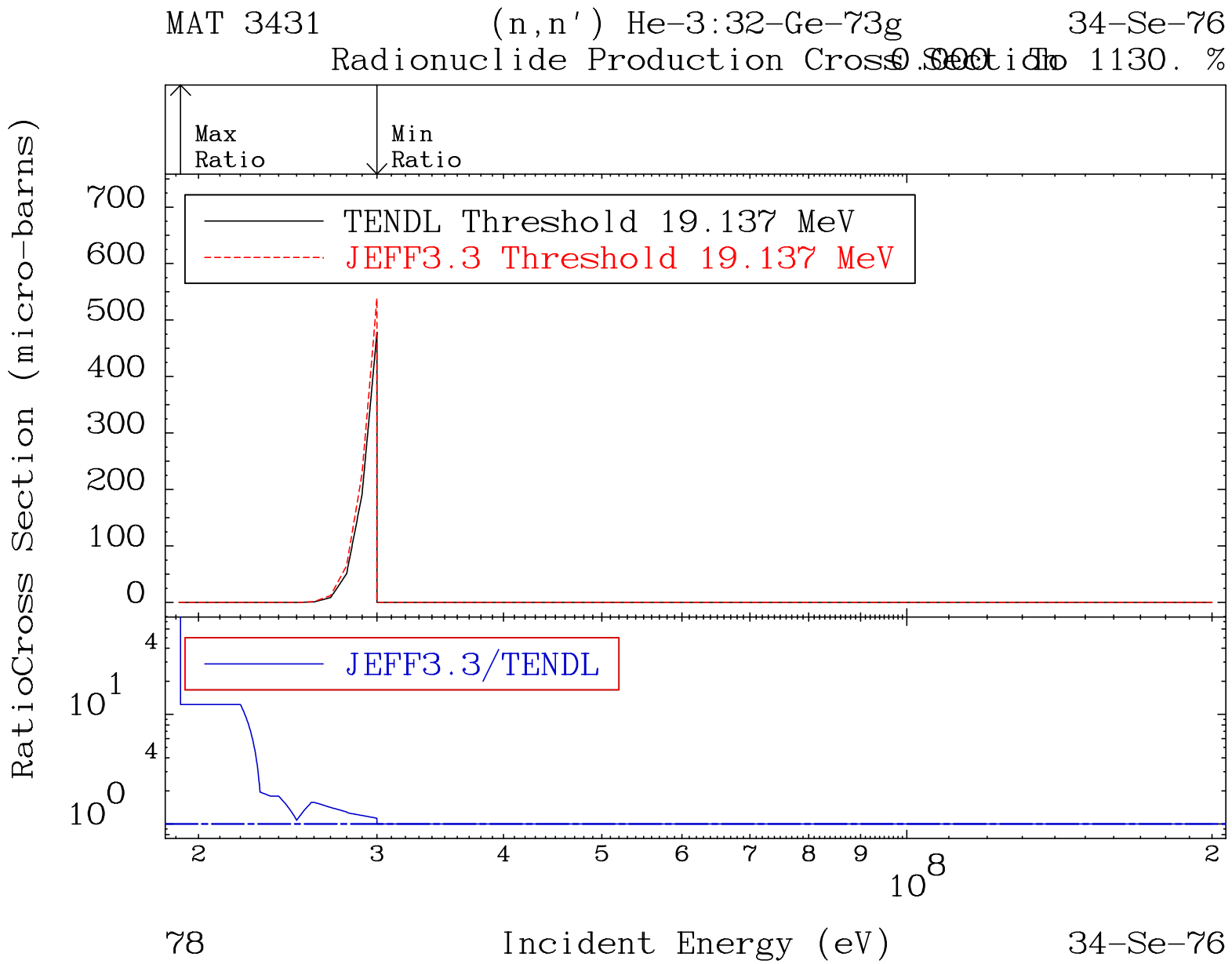

MAT 3431 Total kinematic kerma (high limit) 34-Se-76
Cross Section -99.89 To 5090. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
73
34-Se-76

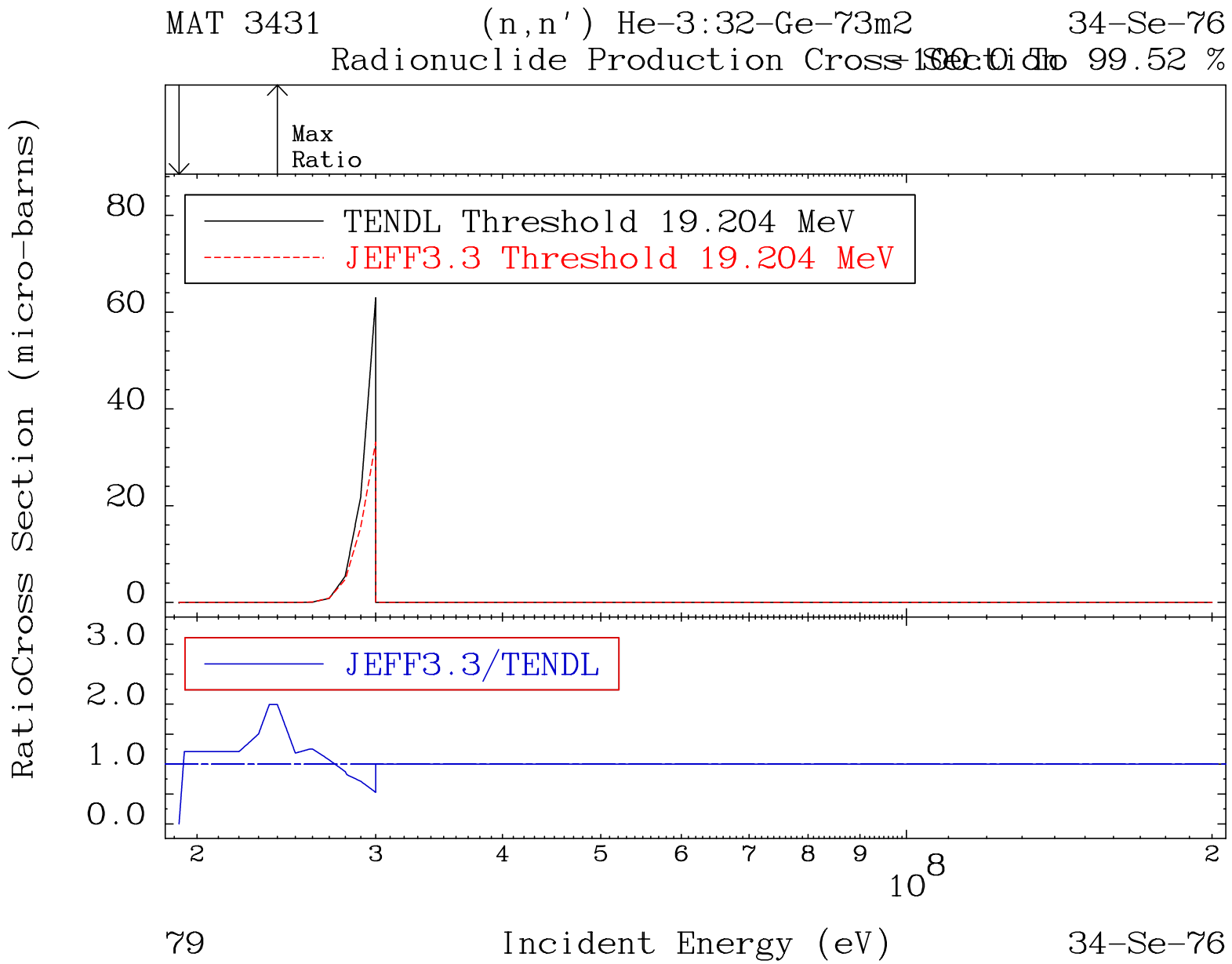

MAT 3431
Dpa total (eV-barns)
34-Se-76
Cross Section -99.90 To 5033. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
74
34-Se-76

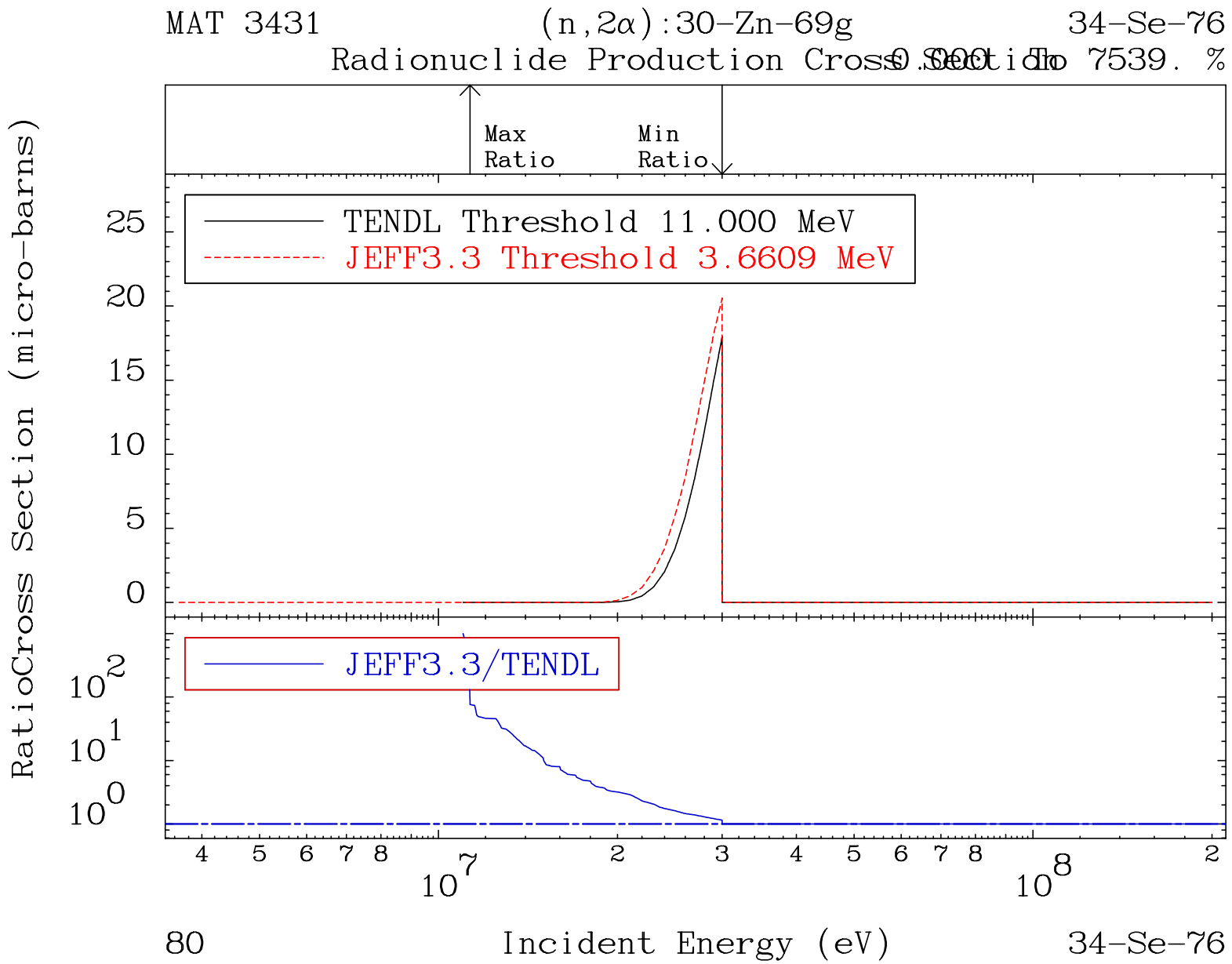

MAT 3431
Dpa elastic (mt2)
Cross Section
34-Se-76
-99.97 To 4418. %
Max Ratio
Min Ratio
TENDL Threshold 461.96 eV
JEFF3.3 Threshold 459.86 eV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
75
34-Se-76

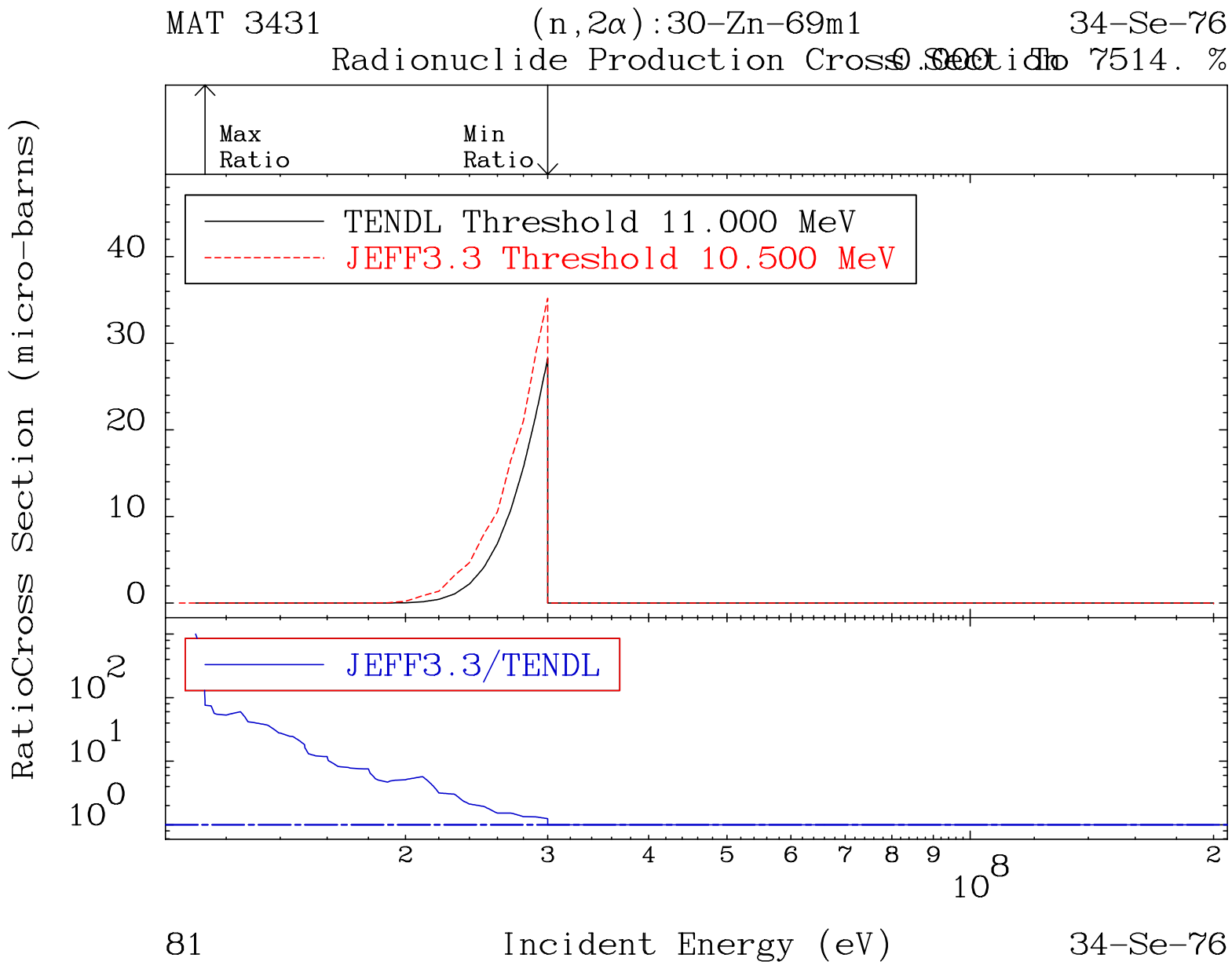

MAT 3431
Dpa inelastic (mt51-91)
34-Se-76
Cross Section
-9.037 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 566.53 keV
JEFF3.3 Threshold 566.53 keV
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
76
34-Se-76

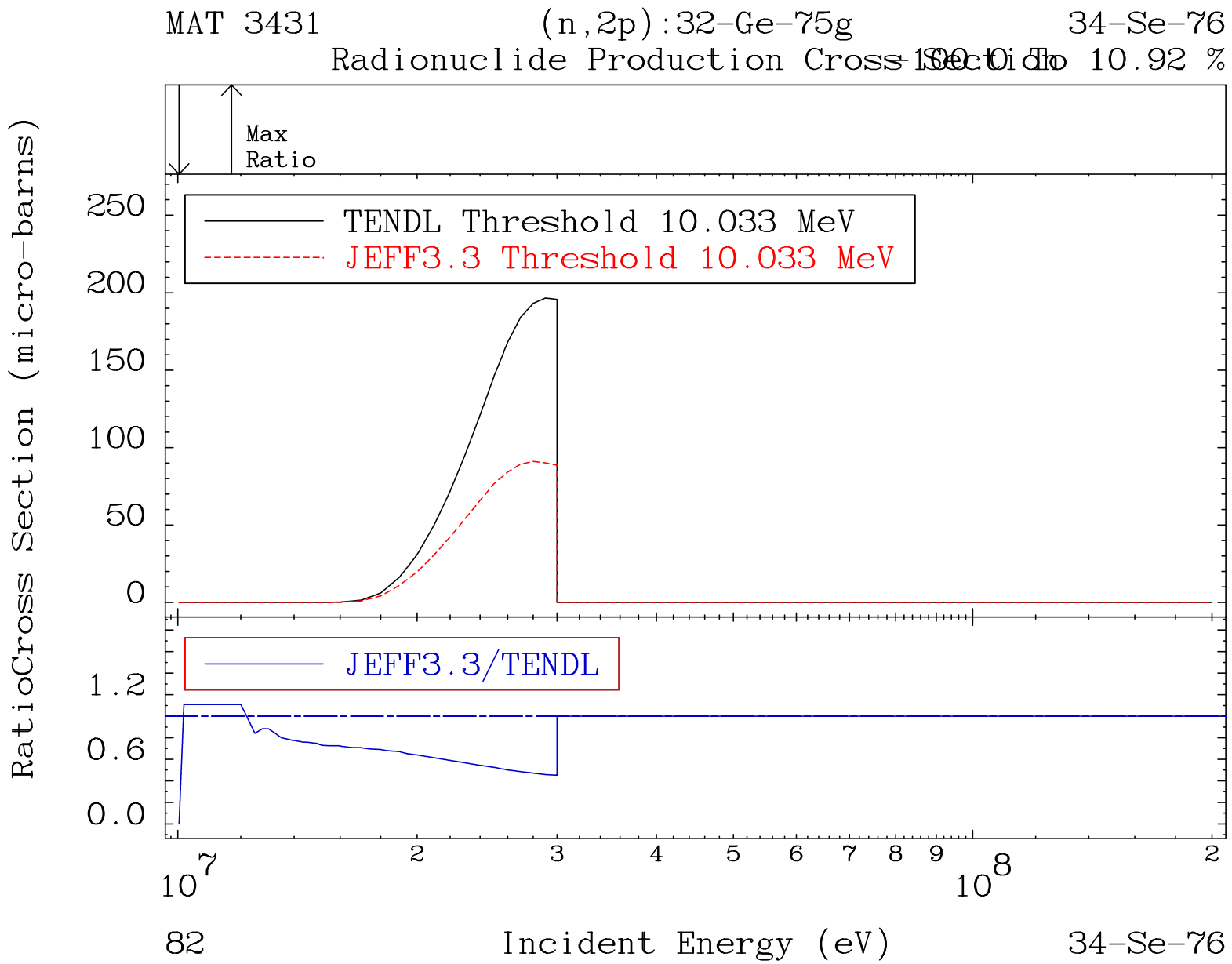

MAT 3431 Dpa disappearance (mt102 -120) 34-Se-76
Cross Section -99.94 To 9999. %
Min Ratio
Max Ratio
TENDL
JEFF3.3
JEFF3.3/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
77
34-Se-76

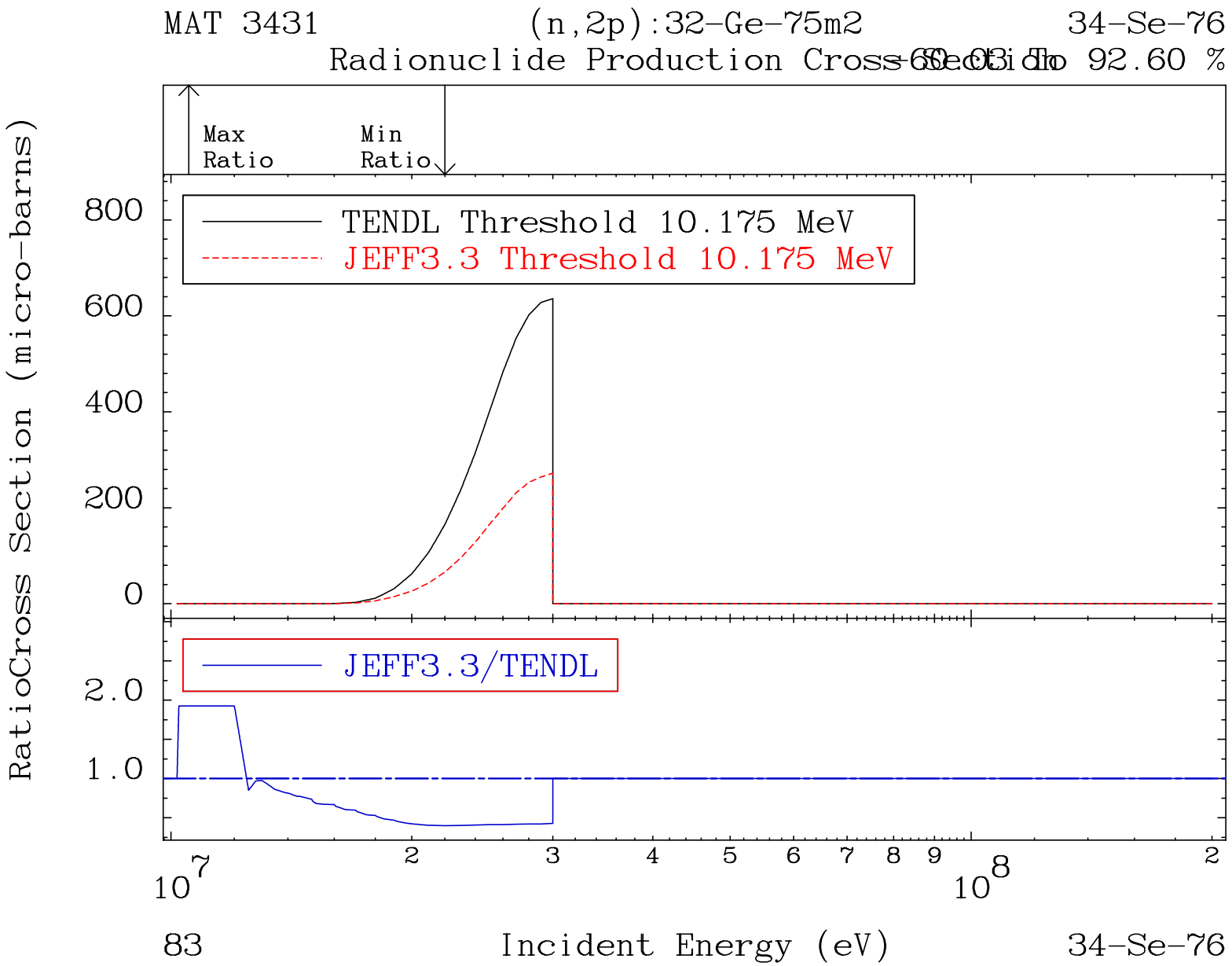

MAT 3431 (n,n') He-3:32-Ge-73g 34-Se-76
Radionuclide Production Cross Section To 1130. %
Max Ratio
Min Ratio
TENDL Threshold 19.137 MeV
JEFF3.3 Threshold 19.137 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
700
600
500
400
300
200
100
0
10^1
10^0
2 3 4 5 6 7 8 9 10^8 2
78 Incident Energy (eV) 34-Se-76

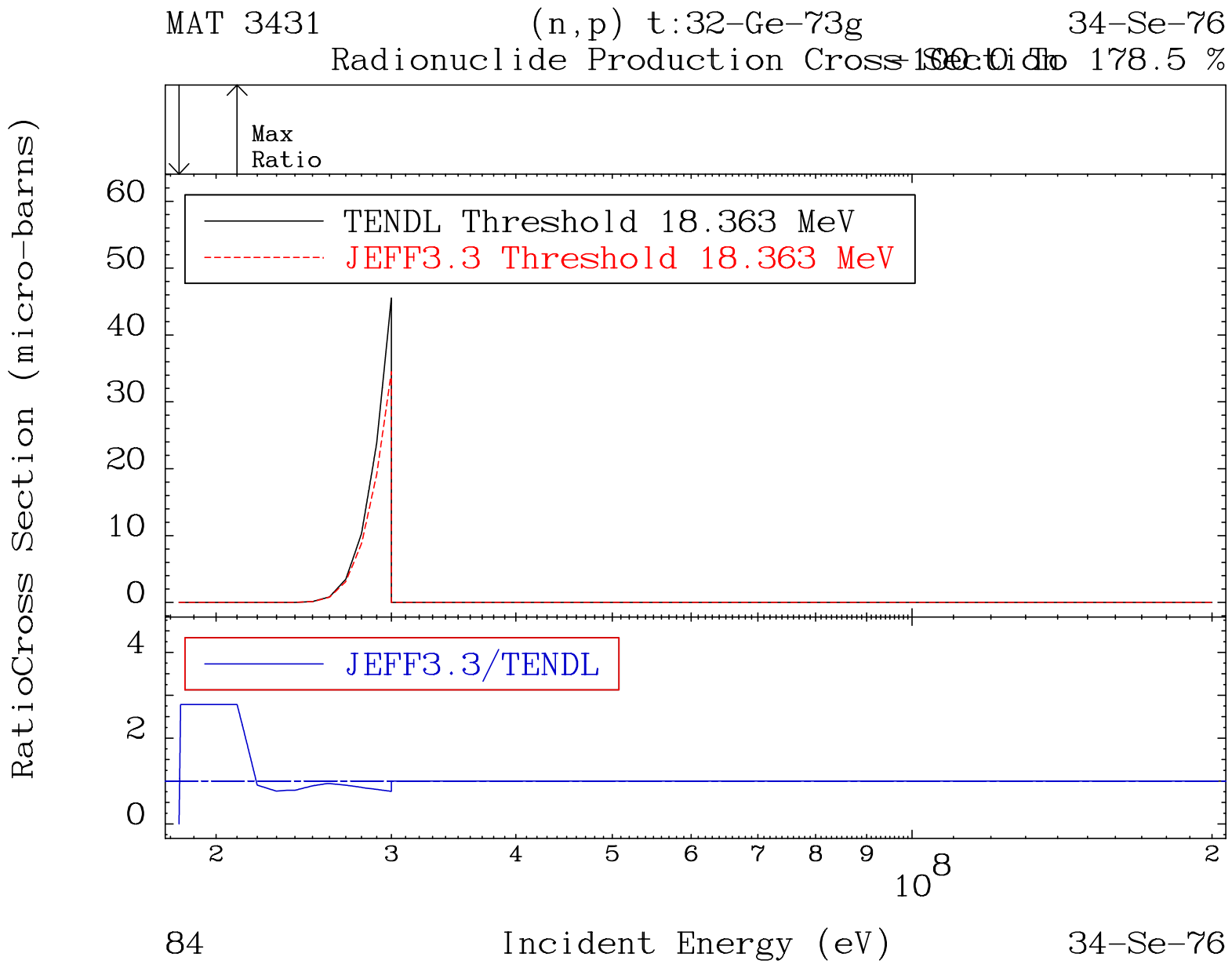

MAT 3431 (n,n') He-3:32-Ge-73m2 34-Se-76
Radionuclide Production Cross Section To 99.52 %
Max
Ratio
TENDL Threshold 19.204 MeV
JEFF3.3 Threshold 19.204 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
80
60
40
20
0
3.0
2.0
1.0
0.0
2
3
4
5
6
7
8
9
10^8
2
79
Incident Energy (eV)
34-Se-76

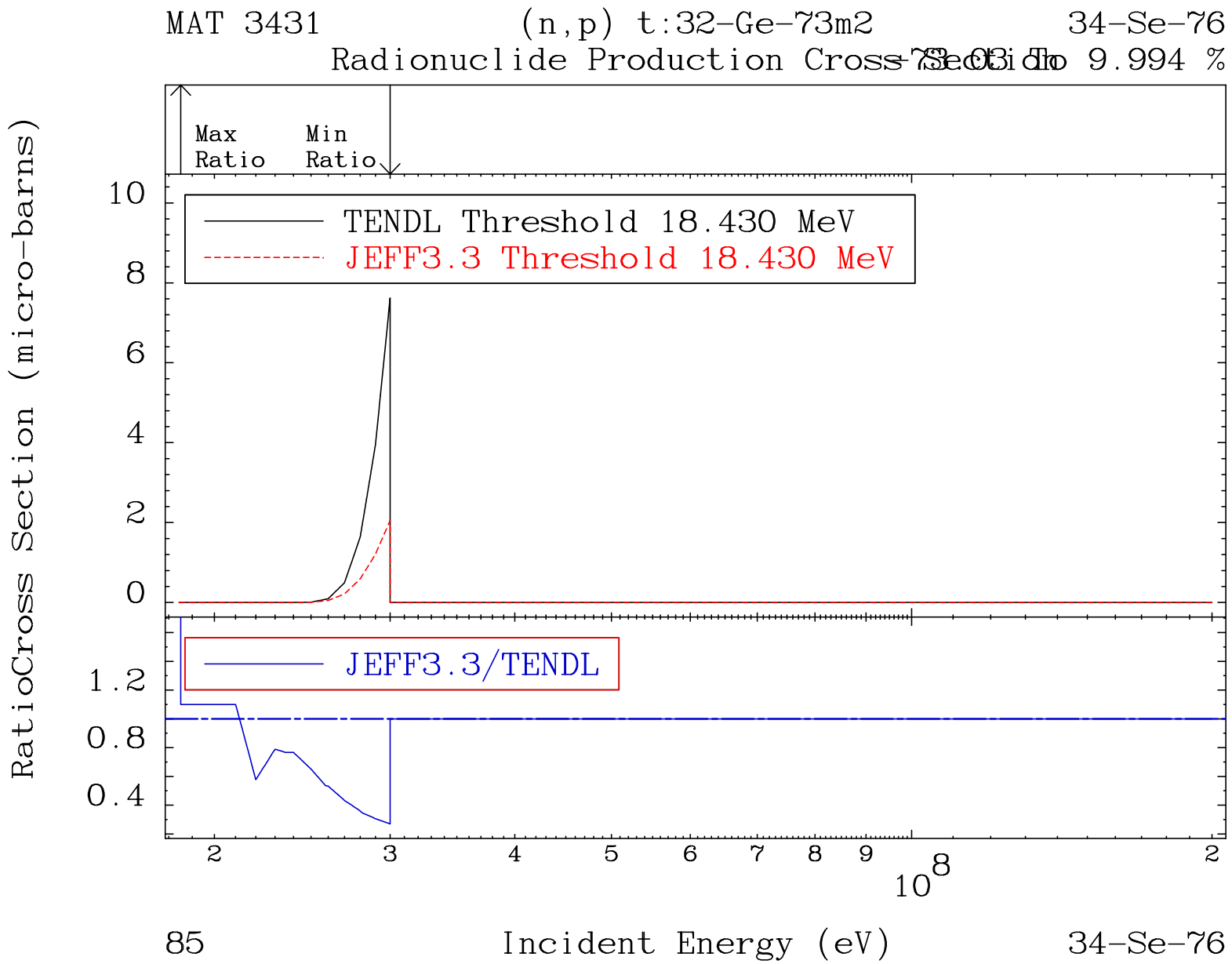

MAT 3431
(n,2α):30-Zn-69g
34-Se-76
Radionuclide Production Cross Section
0.000 To 7539. %
Max Ratio
Min Ratio
TENDL Threshold 11.000 MeV
JEFF3.3 Threshold 3.6609 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
25
20
15
10
5
0
10^2
10^1
10^0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
80
Incident Energy (eV)
34-Se-76


MAT 3431
(n,2α):30-Zn-69m1
34-Se-76
Radionuclide Production Cross Section
0.000 To 7514. %
Max Ratio
Min Ratio
TENDL Threshold 11.000 MeV
JEFF3.3 Threshold 10.500 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
40
30
20
10
0
10^2
10^1
10^0
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
34-Se-76


MAT 3431
(n,2p):32-Ge-75g
34-Se-76
Radionuclide Production Cross Section To 10.92 %
Max
Ratio
TENDL Threshold 10.033 MeV
JEFF3.3 Threshold 10.033 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
250
200
150
100
50
0
1.2
0.6
0.0
10^7
2
3
4
5
6
7
8
9
10^8
2
82
Incident Energy (eV)
34-Se-76


MAT 3431
(n,2p):32-Ge-75m2
34-Se-76
Radionuclide Production Cross Section To 92.60 %
Max Ratio
Min Ratio
TENDL Threshold 10.175 MeV
JEFF3.3 Threshold 10.175 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
800
600
400
200
0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
83
Incident Energy (eV)
34-Se-76


MAT 3431
(n,p) t:32-Ge-73g
34-Se-76
Radionuclide Production Cross Section To 178.5 %
Max
Ratio
TENDL Threshold 18.363 MeV
JEFF3.3 Threshold 18.363 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
60
50
40
30
20
10
0
4
2
0
2
3
4
5
6
7
8
9
2
10^8
84
Incident Energy (eV)
34-Se-76


MAT 3431
(n,p) t:32-Ge-73m2
34-Se-76
Radionuclide Production Cross Section To 9.994 %
Max Ratio
Min Ratio
TENDL Threshold 18.430 MeV
JEFF3.3 Threshold 18.430 MeV
JEFF3.3/TENDL
RatioCross Section (micro-barns)
10
8
6
4
2
0
1.2
0.8
0.4
2
3
4
5
6
7
8
9
10^8
2
85
Incident Energy (eV)
34-Se-76