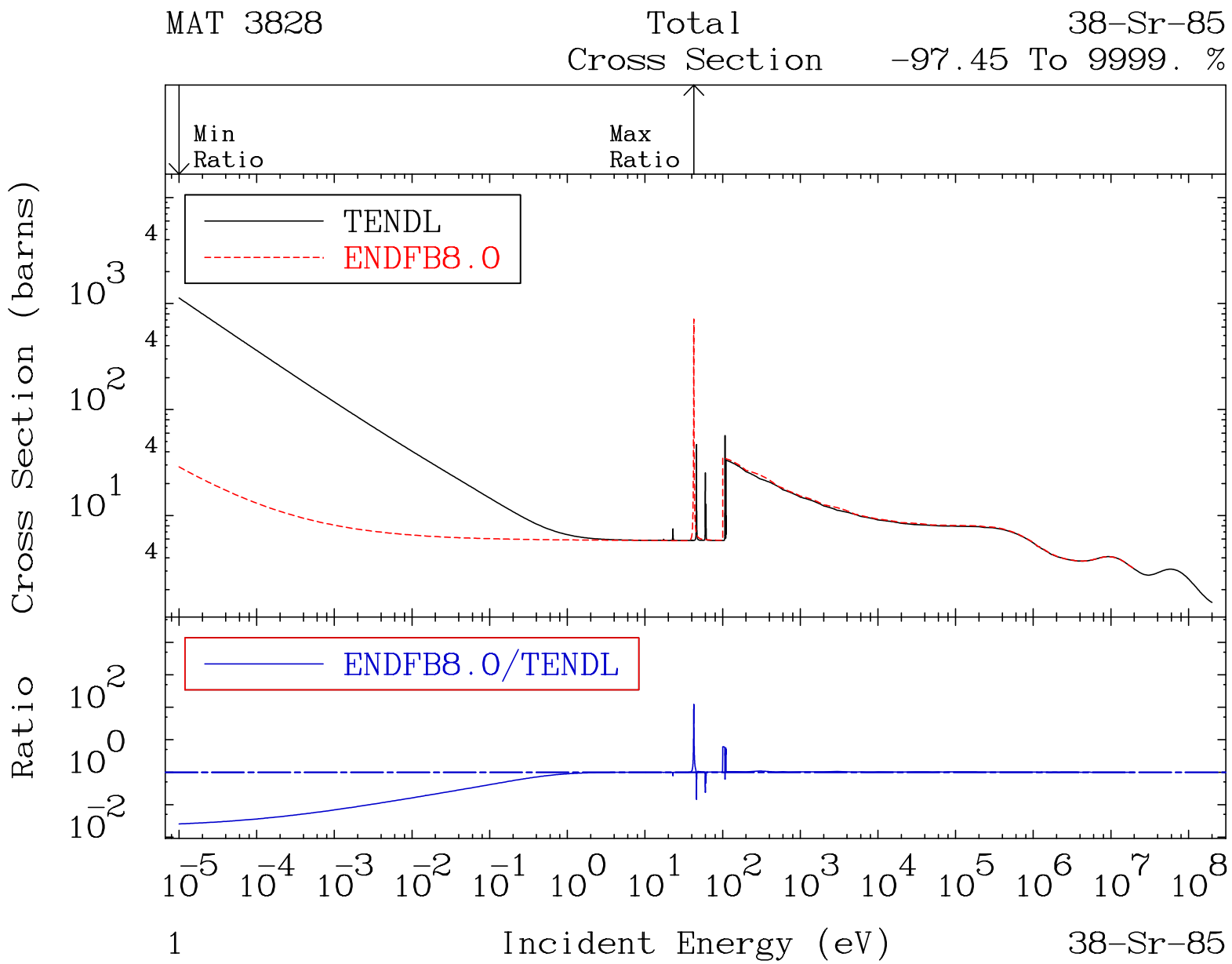
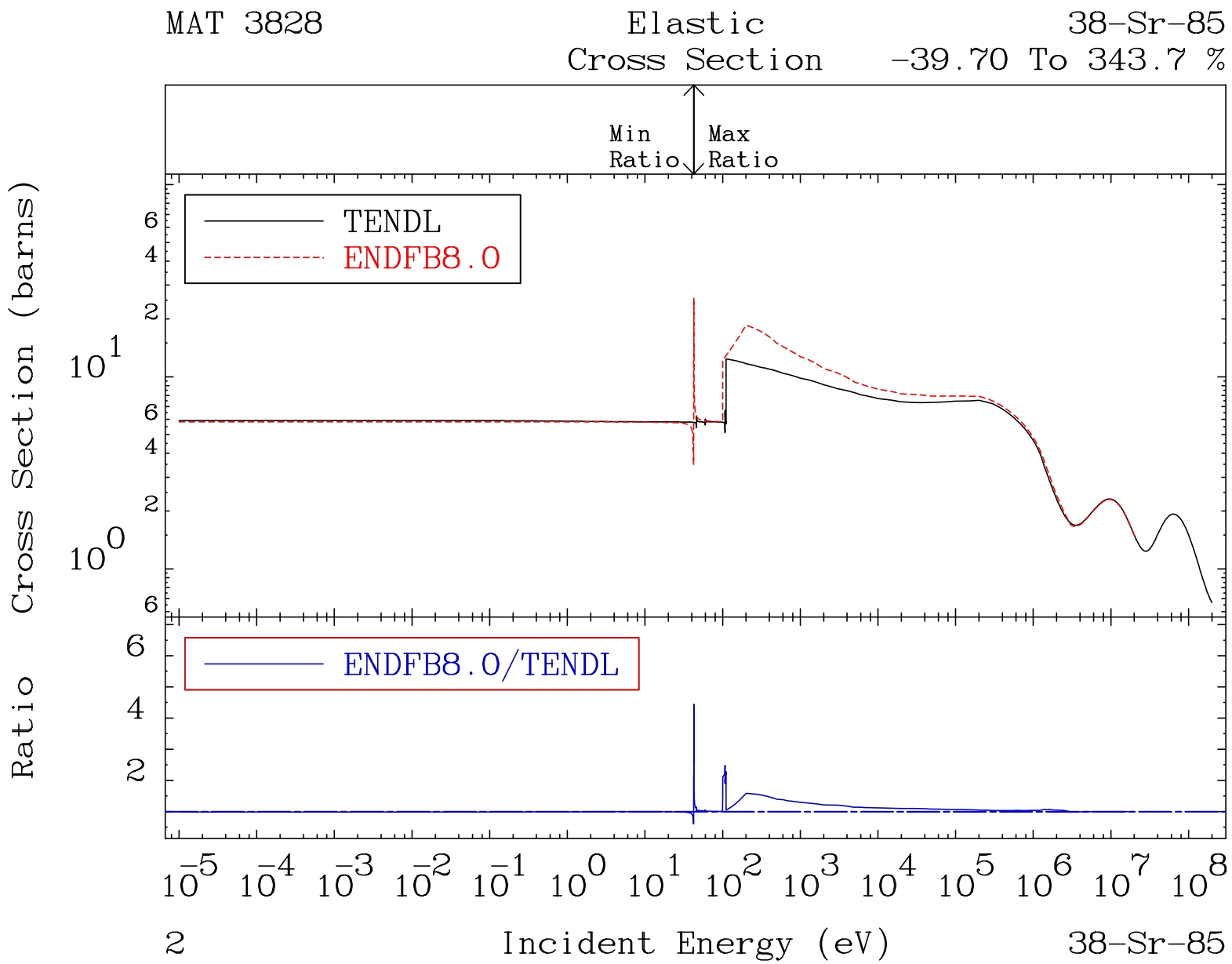
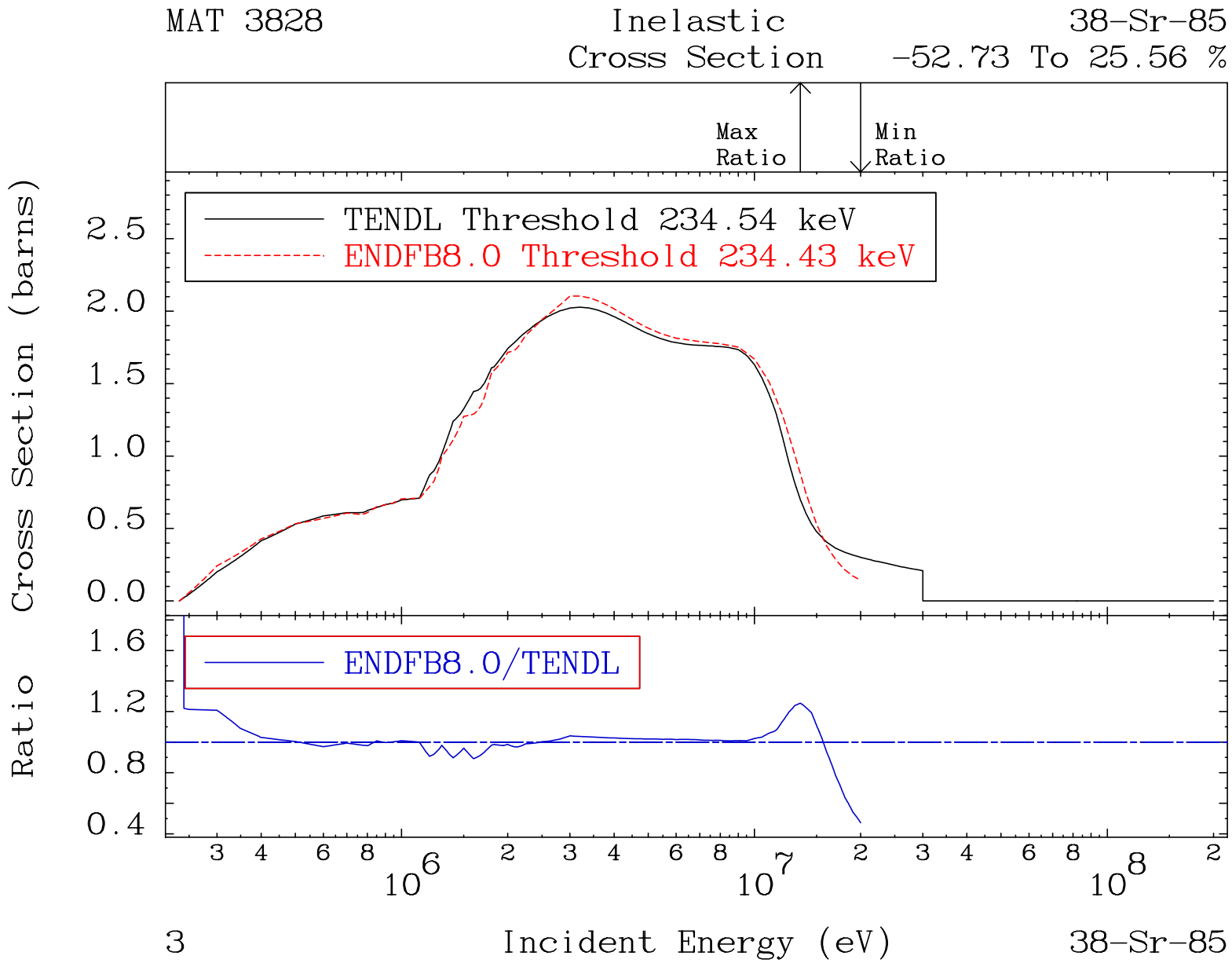
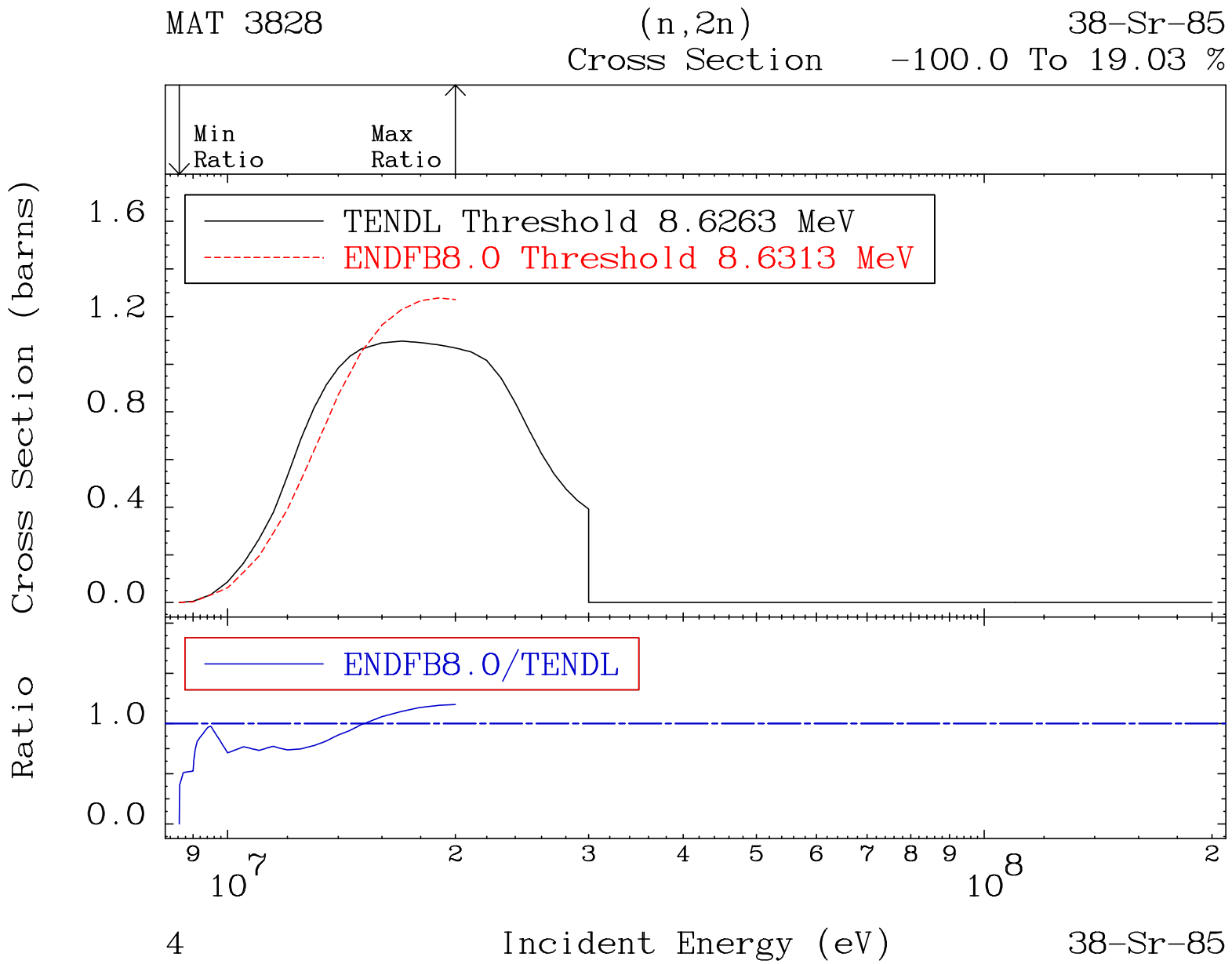
Program Complot
(Version 2021-1)
by
Dermott E. Cullen
(Present Contact Information)
Dermott E. Cullen
1466 Hudson Way
Livermore, CA 94550
U.S.A.
Tele: 925-443-1911
E.Mail:redcullen1@comcast.net
Web:redcullen1.net/HOMEPAGE.NEW

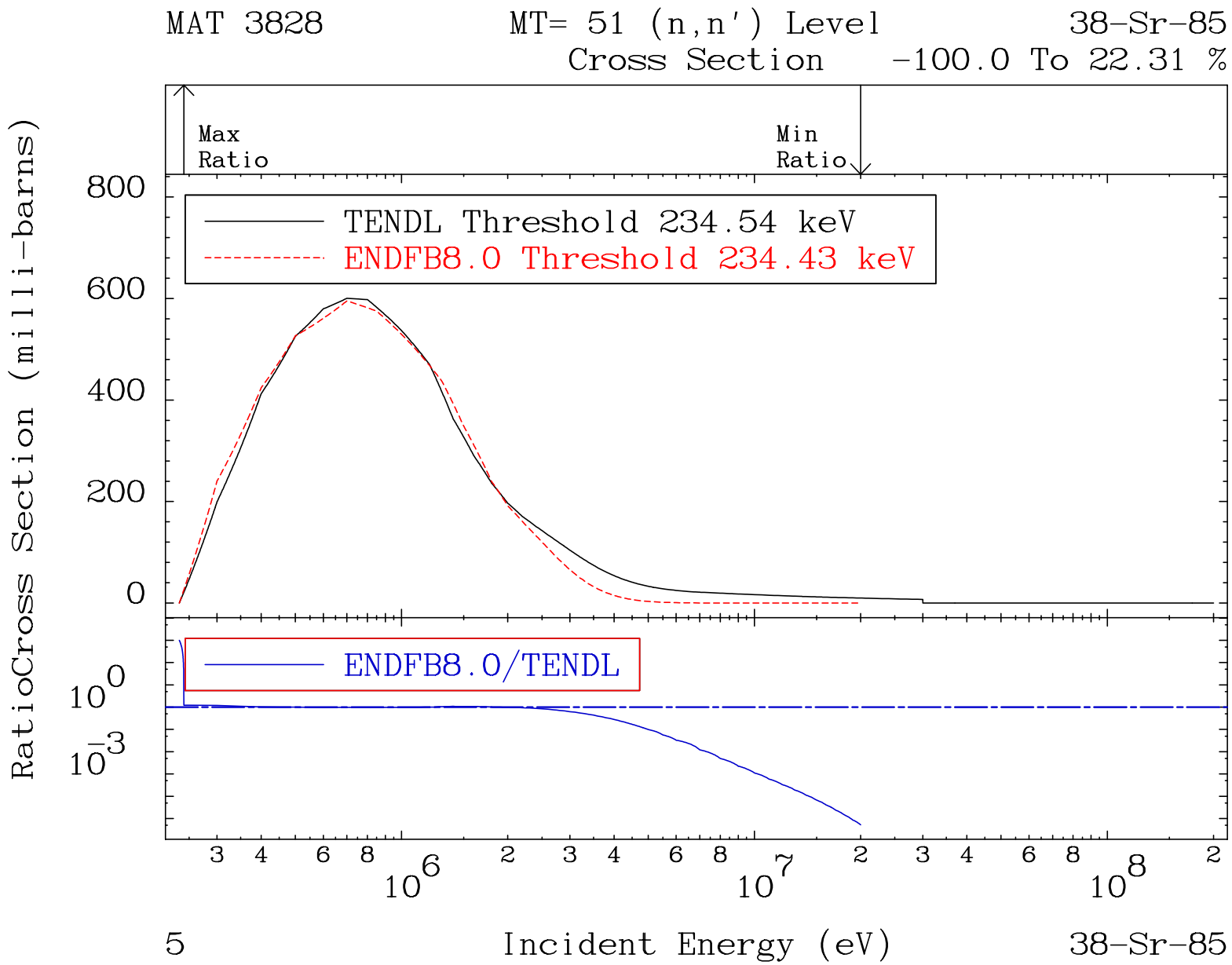
Press Mouse Button to Start

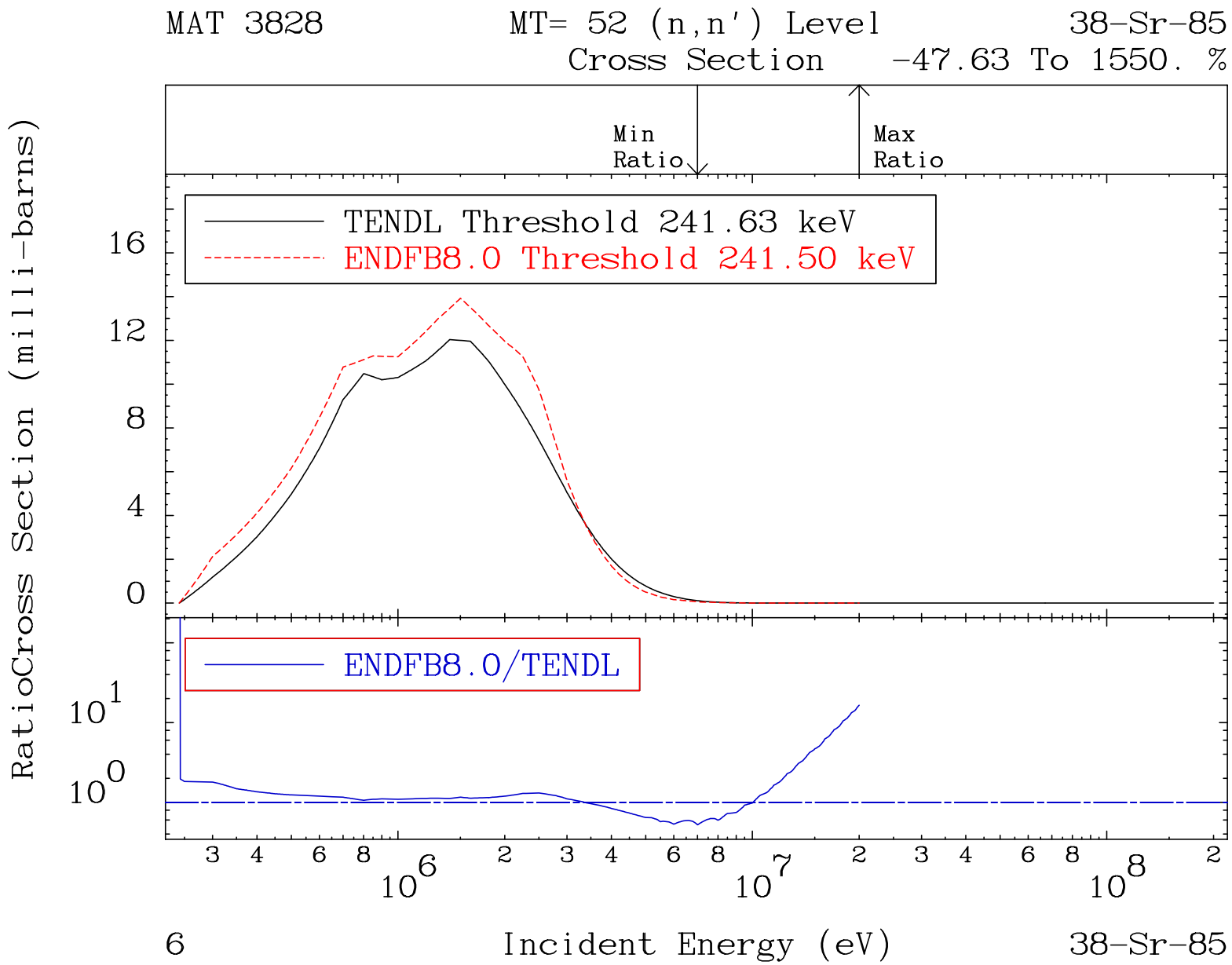

MAT 3828
Total
Cross Section
38-Sr-85
-97.45 To 9999. %
Min
Ratio
Max
Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
38-Sr-85

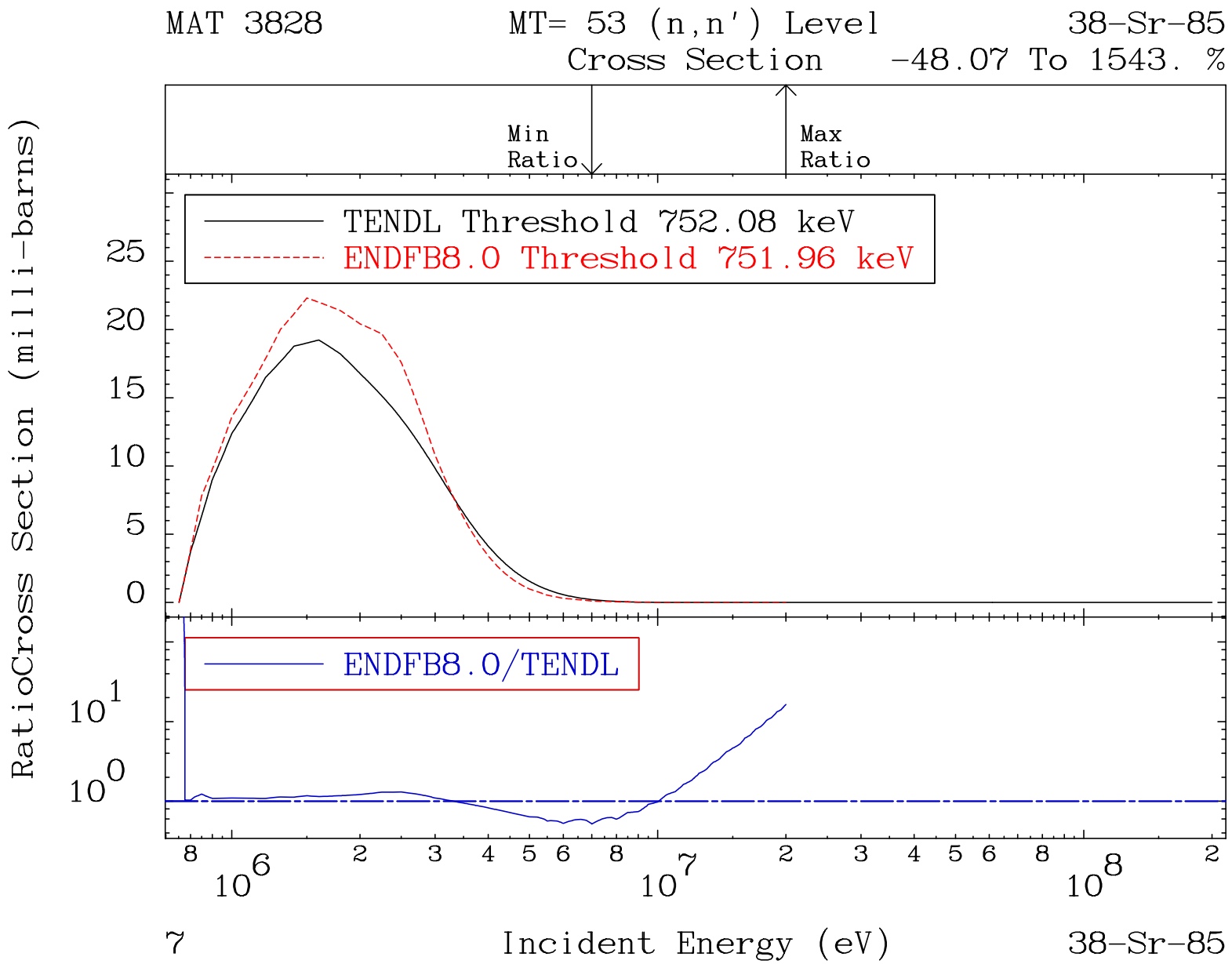

MAT 3828
Elastic
Cross Section
38-Sr-85
-39.70 To 343.7 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38-Sr-85
2

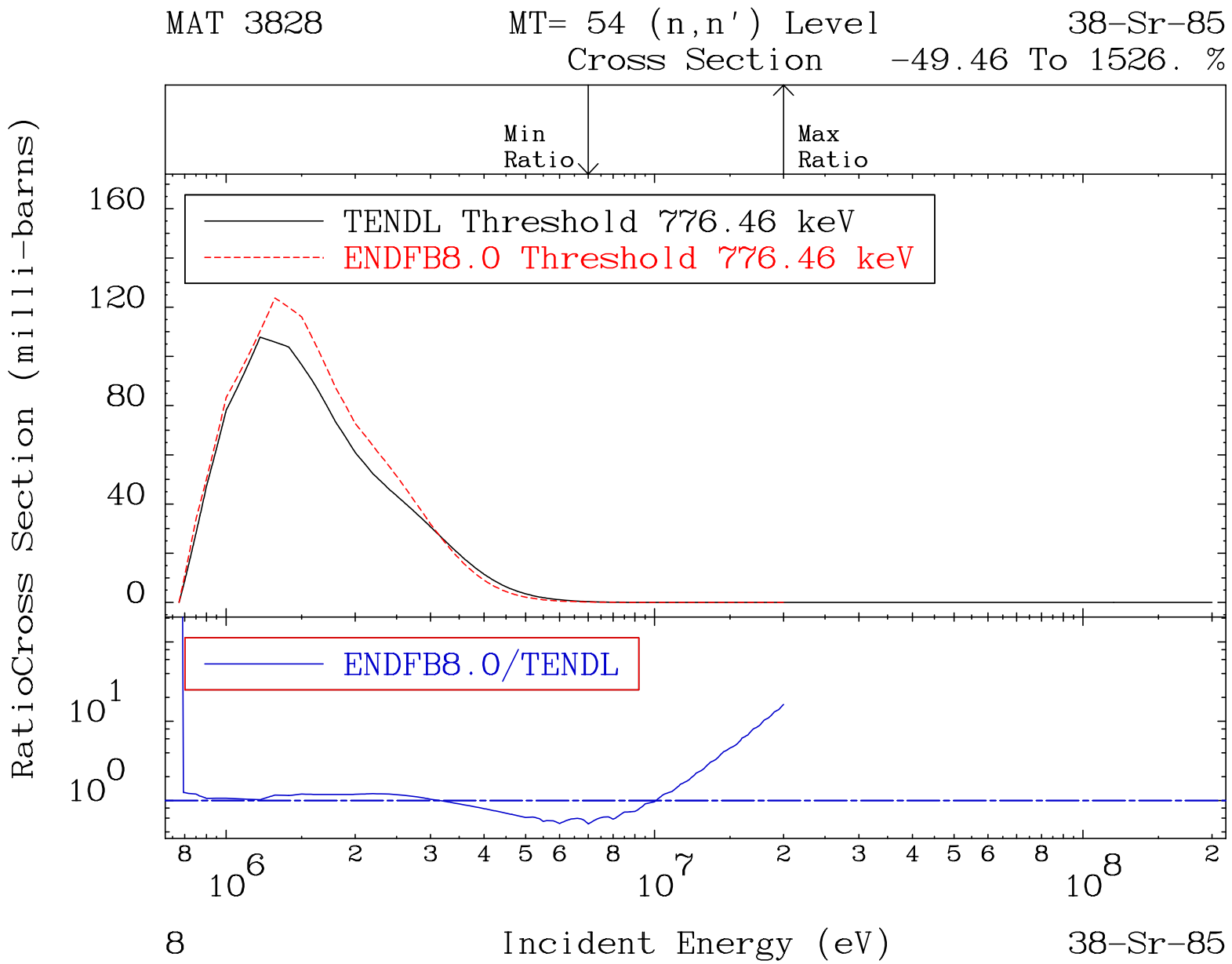

MAT 3828
Inelastic
Cross Section
38-Sr-85
-52.73 To 25.56 %
Max
Ratio
Min
Ratio
TENDL Threshold 234.54 keV
ENDFB8.0 Threshold 234.43 keV
Cross Section (barns)
2.5
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
1.6
1.2
0.8
0.4
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
3
Incident Energy (eV)
38-Sr-85

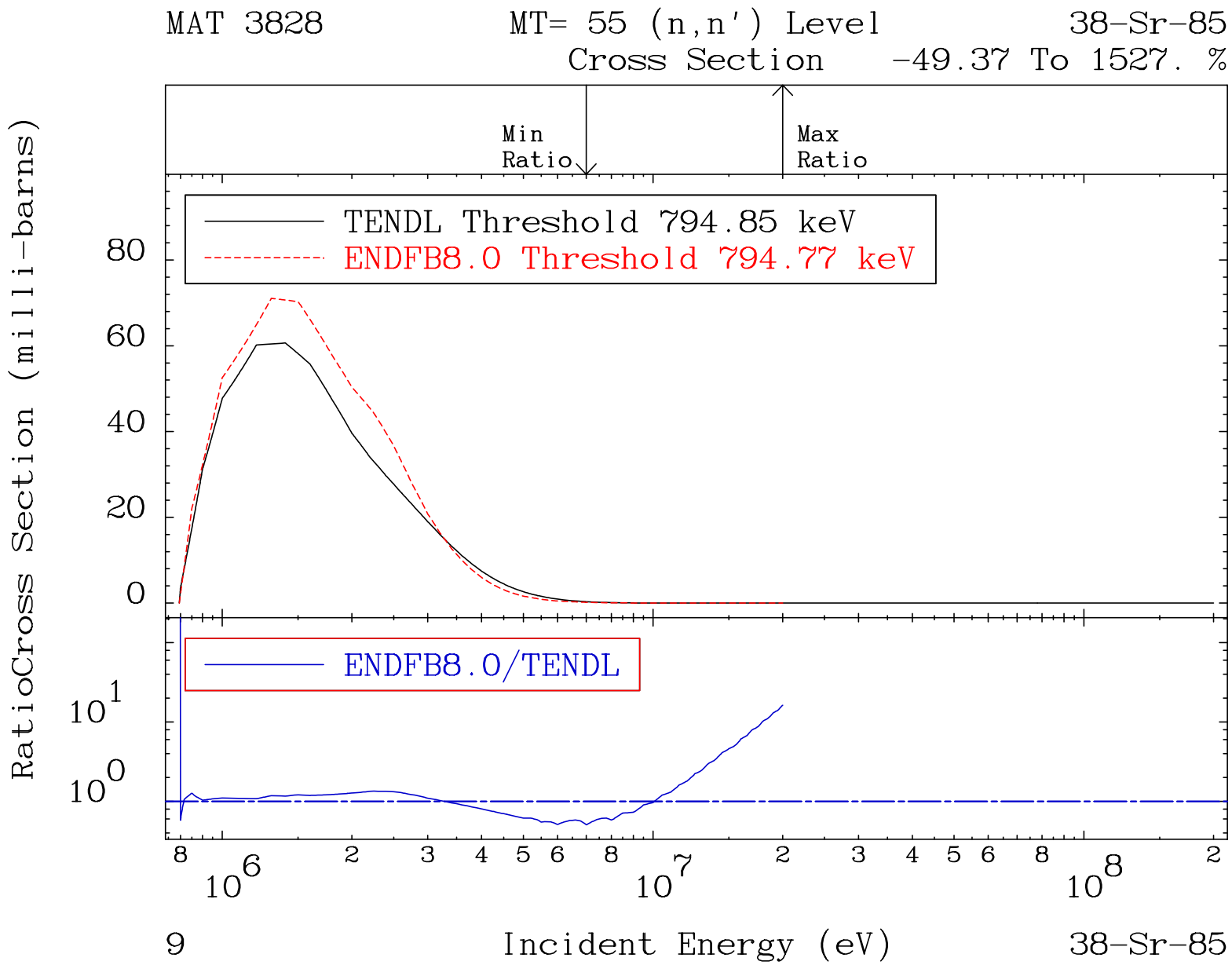

MAT 3828
(n,2n)
Cross Section
38-Sr-85
-100.0 To 19.03 %
Min Ratio
Max Ratio
TENDL Threshold 8.6263 MeV
ENDFB8.0 Threshold 8.6313 MeV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
38-Sr-85

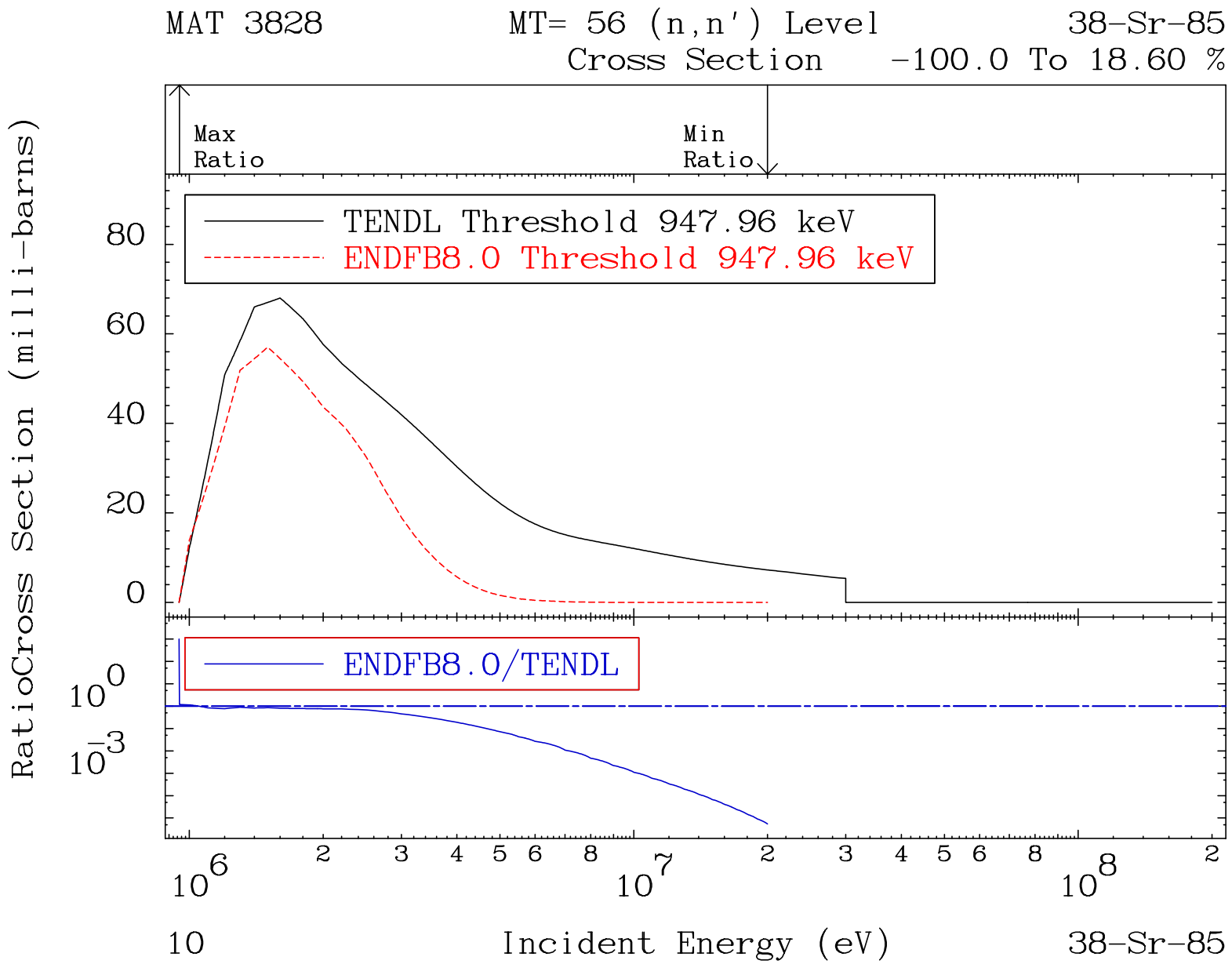

MAT 3828
MT= 51 (n,n') Level
38-Sr-85
Cross Section
-100.0 To 22.31 %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
ENDFB8.0 Threshold 234.43 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
10^0
10^-3
3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
Incident Energy (eV)
5
38-Sr-85

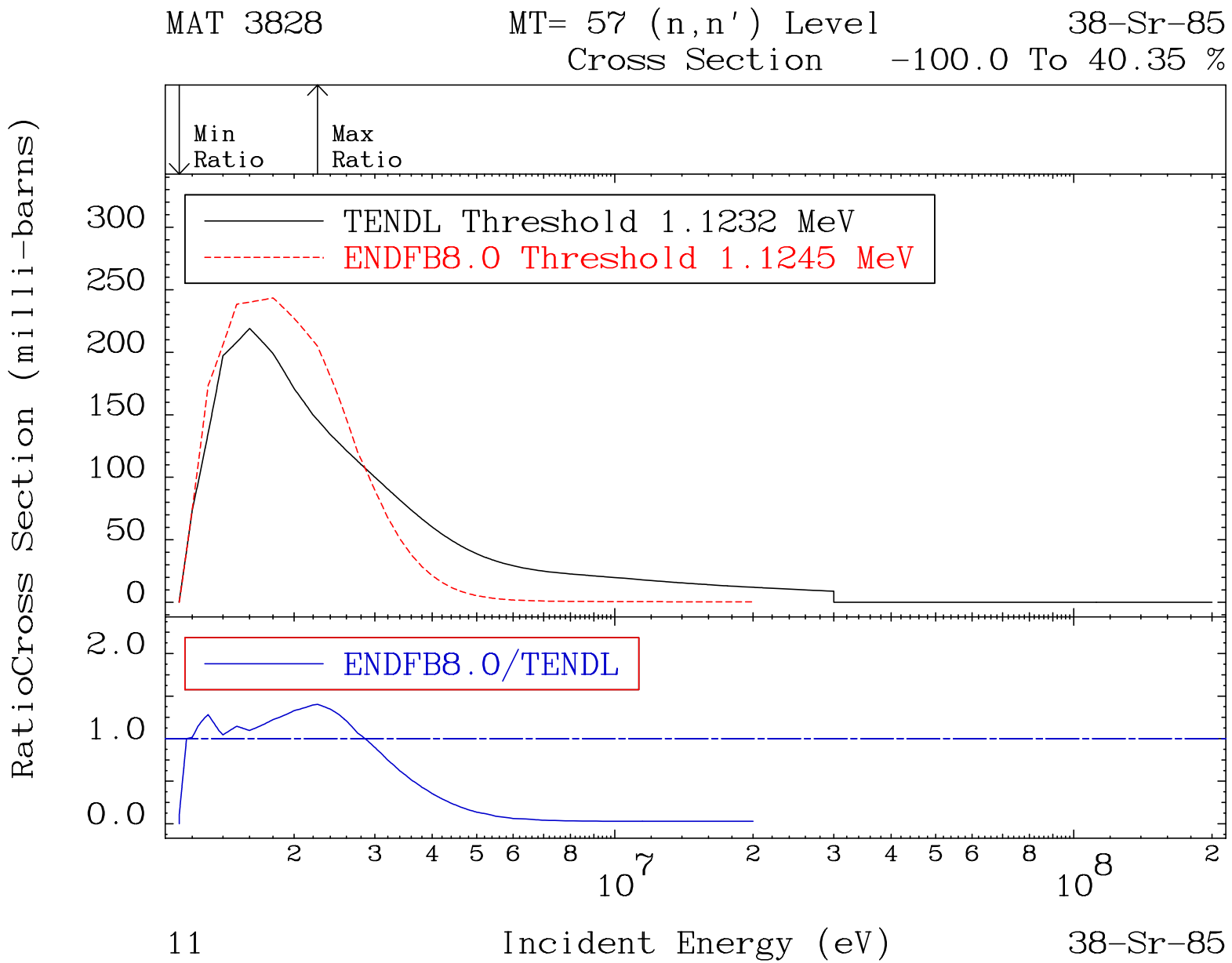

MAT 3828
MT= 52 (n,n') Level
38-Sr-85
Cross Section -47.63 To 1550. %
Min Ratio
Max Ratio
TENDL Threshold 241.63 keV
ENDFB8.0 Threshold 241.50 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
6
38-Sr-85

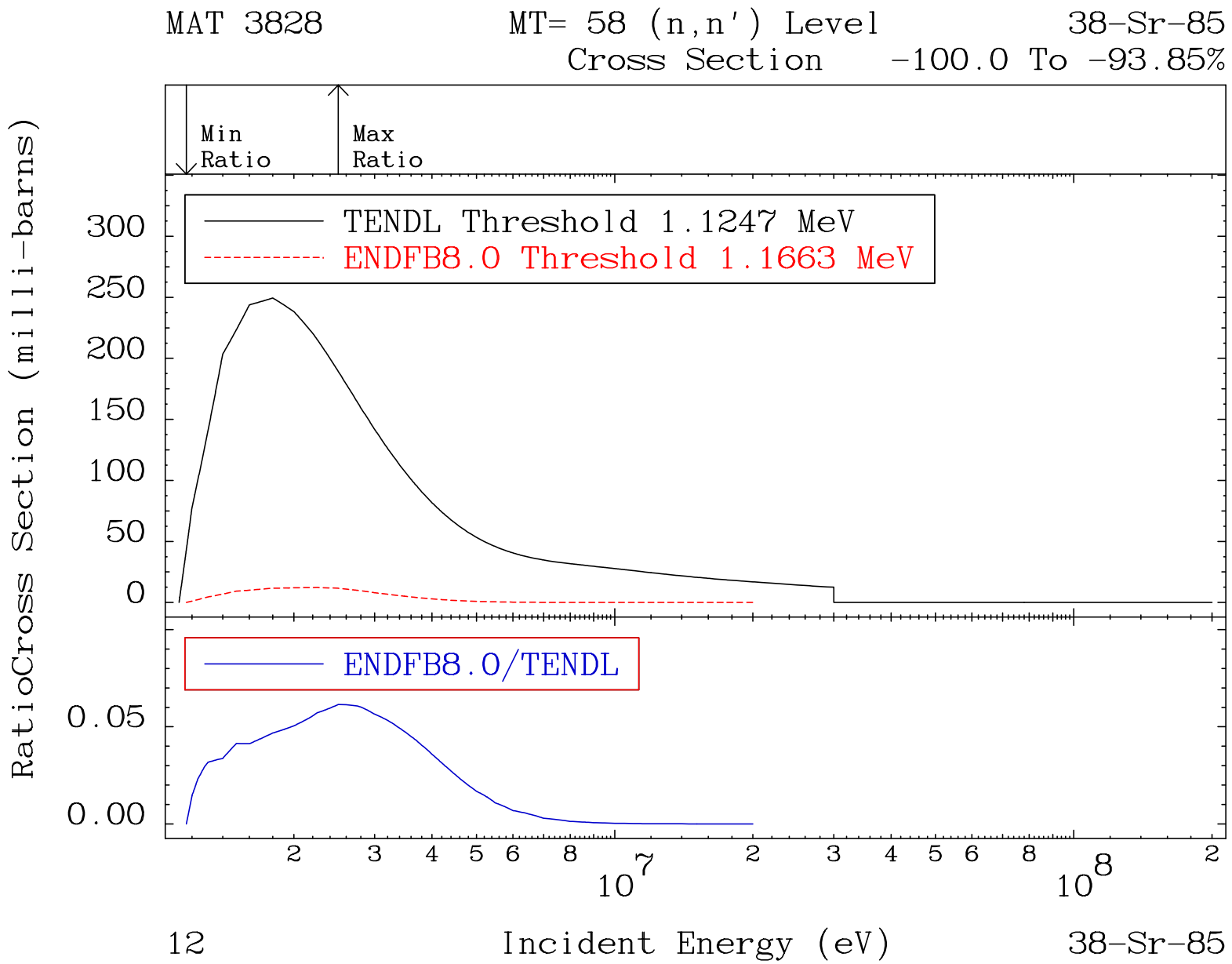

MAT 3828
MT= 53 (n,n') Level
38-Sr-85
Cross Section -48.07 To 1543. %
Min Ratio
Max Ratio
TENDL Threshold 752.08 keV
ENDFB8.0 Threshold 751.96 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38-Sr-85

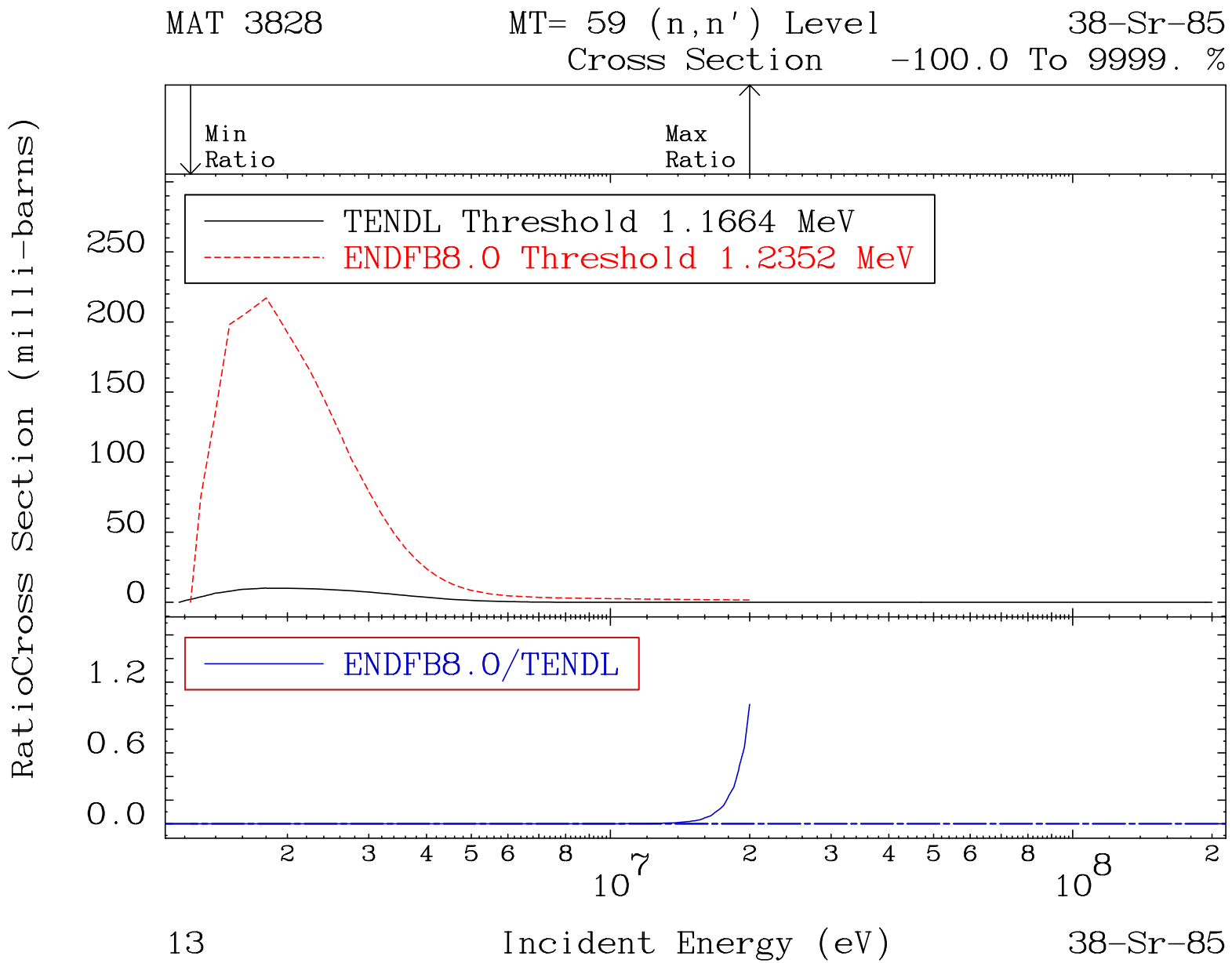

MAT 3828
MT= 54 (n,n') Level
38-Sr-85
Cross Section -49.46 To 1526. %
Min Ratio
Max Ratio
TENDL Threshold 776.46 keV
ENDFB8.0 Threshold 776.46 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
10^1
10^0
8
10^6
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
8
Incident Energy (eV)
38-Sr-85

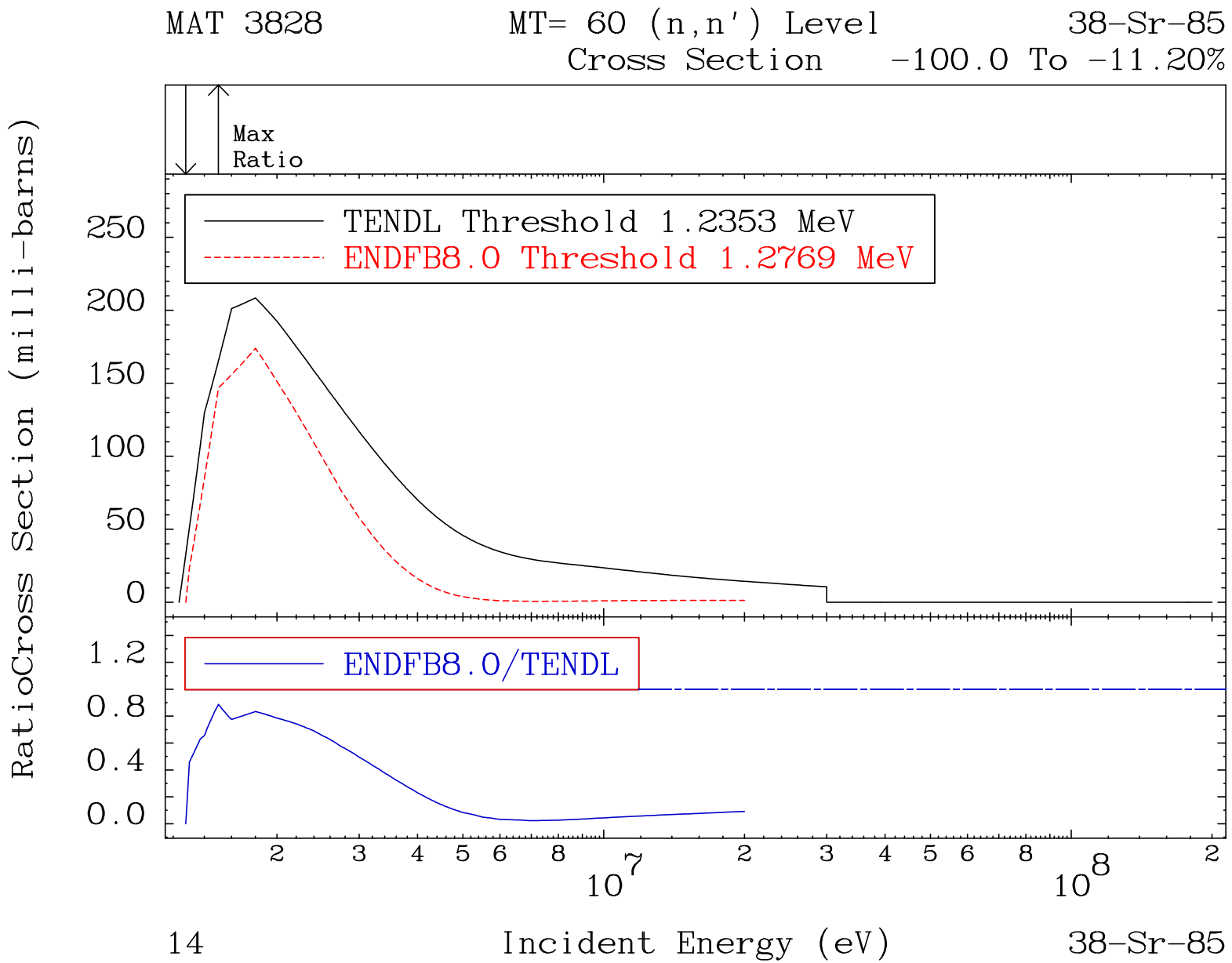

MAT 3828
MT= 55 (n,n') Level
38-Sr-85
Cross Section -49.37 To 1527. %
Min Ratio
Max Ratio
TENDL Threshold 794.85 keV
ENDFB8.0 Threshold 794.77 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
9
38-Sr-85

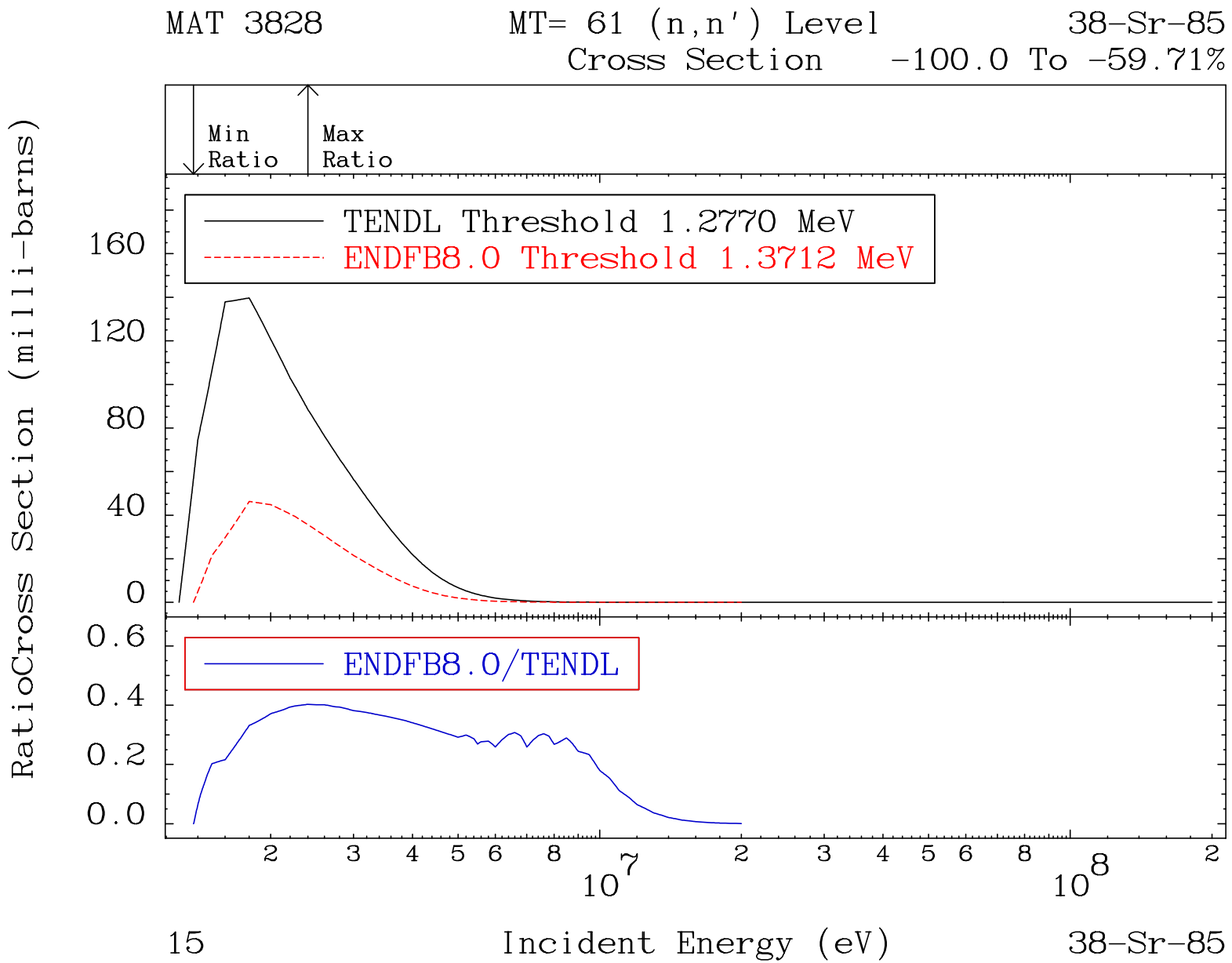

MAT 3828
MT= 56 (n,n') Level
38-Sr-85
Cross Section -100.0 To 18.60 %
Max Ratio
Min Ratio
TENDL Threshold 947.96 keV
ENDFB8.0 Threshold 947.96 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
38-Sr-85

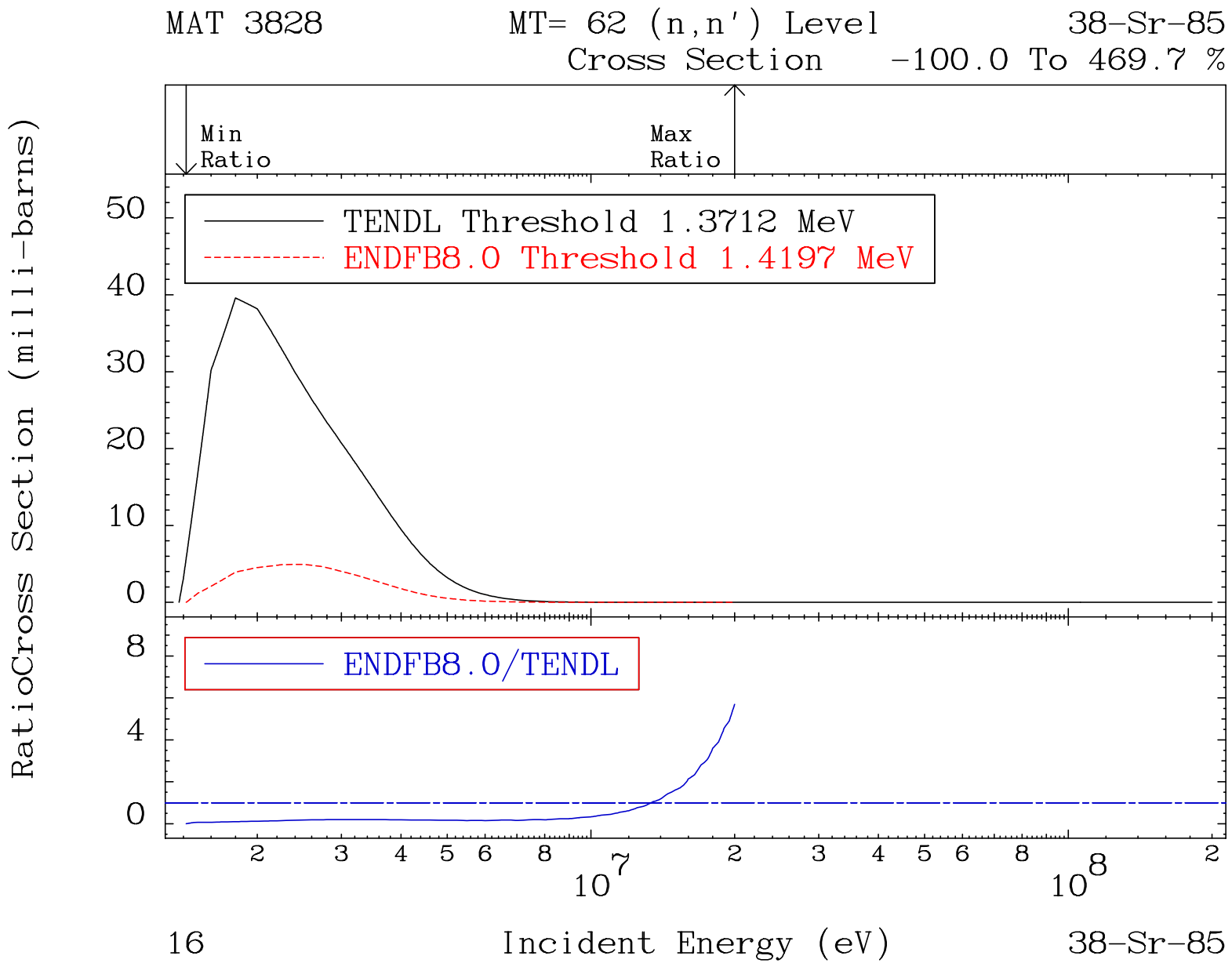

MAT 3828
MT= 57 (n,n') Level
38-Sr-85
Cross Section -100.0 To 40.35 %
Min Ratio
Max Ratio
TENDL Threshold 1.1232 MeV
ENDFB8.0 Threshold 1.1245 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
2.0
1.0
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
11
Incident Energy (eV)
38-Sr-85

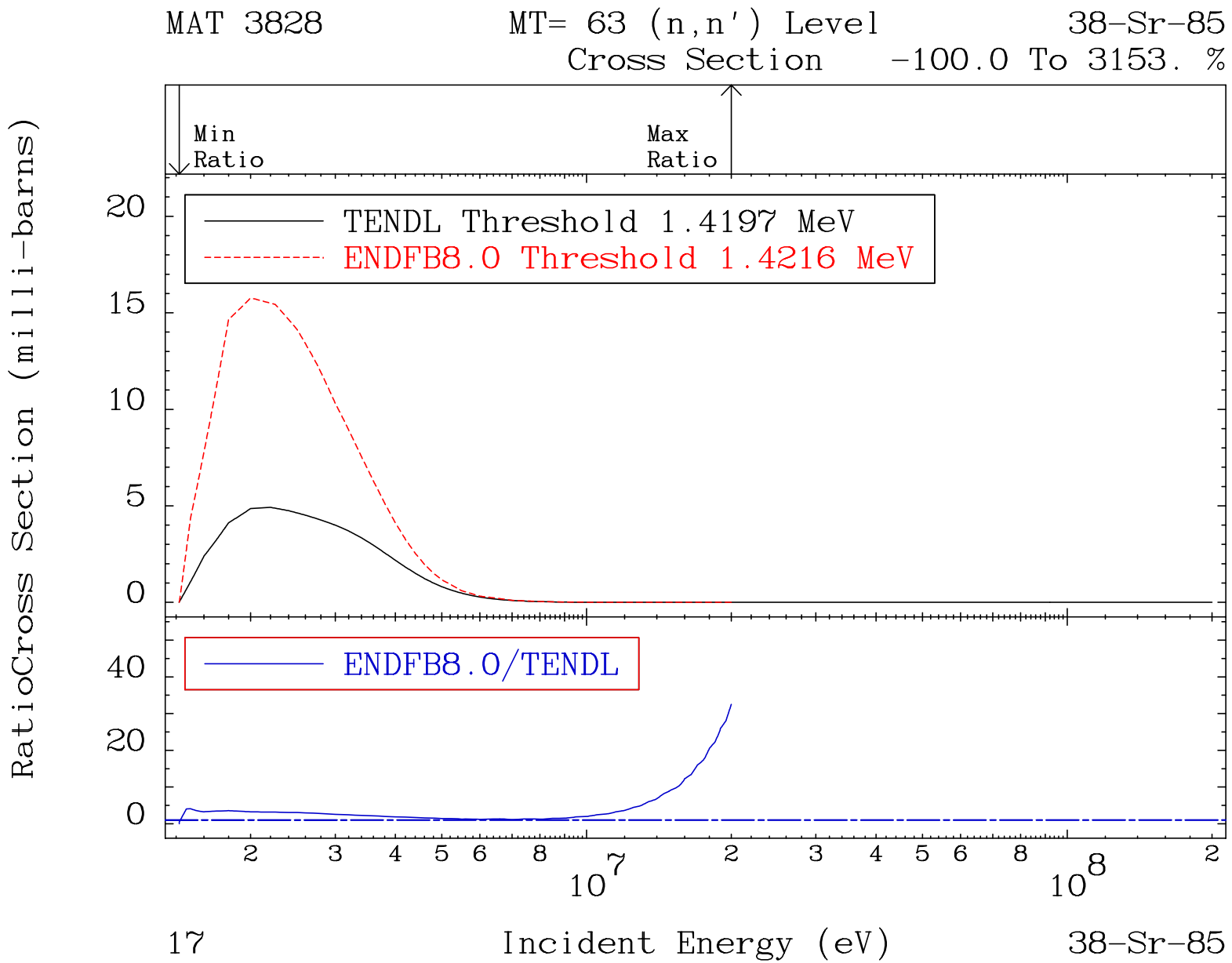

MAT 3828
MT= 58 (n,n') Level
38-Sr-85
Cross Section -100.0 To -93.85%
Min Ratio
Max Ratio
TENDL Threshold 1.1247 MeV
ENDFB8.0 Threshold 1.1663 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
0.05
0.00
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
12
Incident Energy (eV)
38-Sr-85

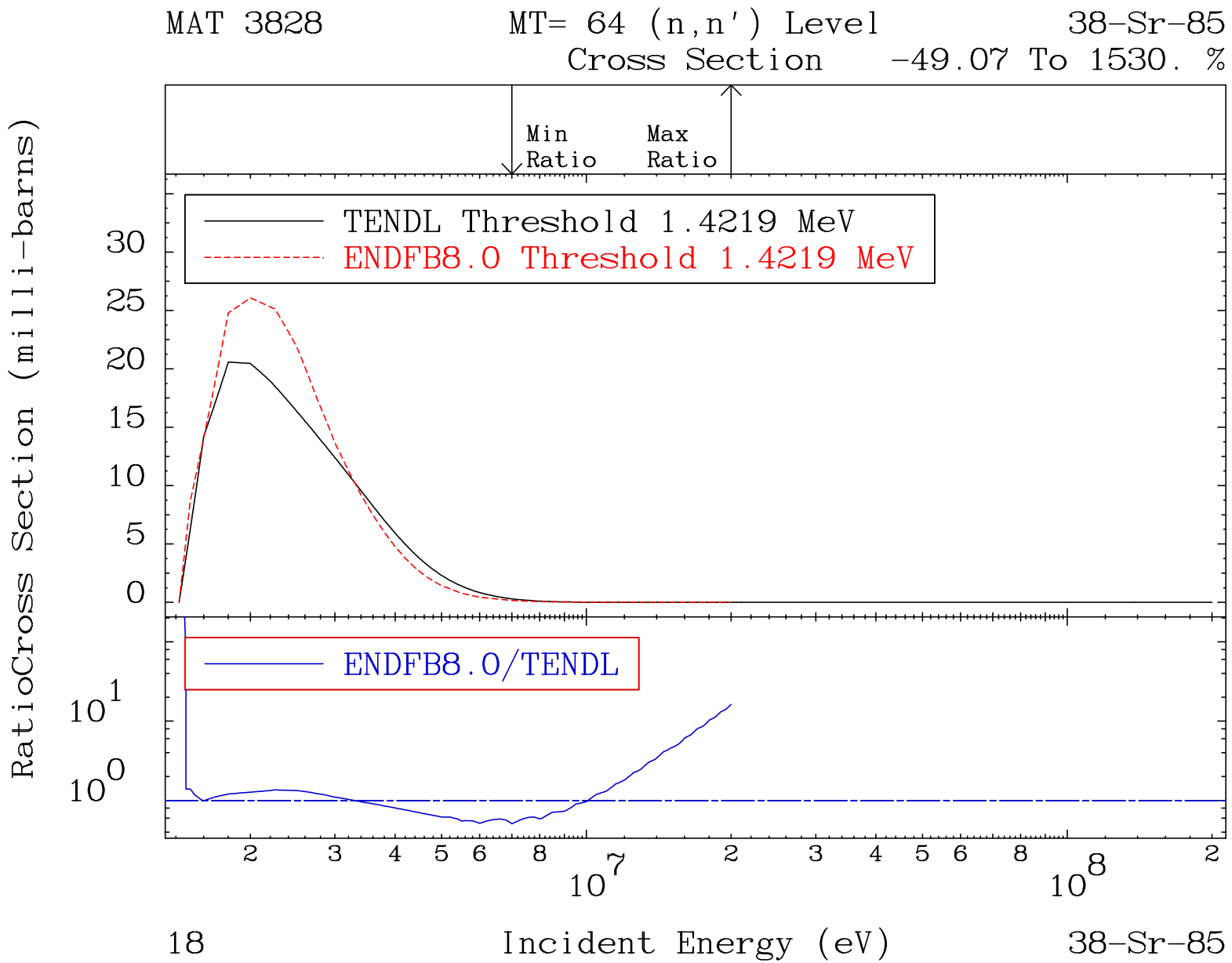

MAT 3828
MT= 59 (n,n') Level
38-Sr-85
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.1664 MeV
ENDFB8.0 Threshold 1.2352 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.6
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
13
Incident Energy (eV)
38-Sr-85

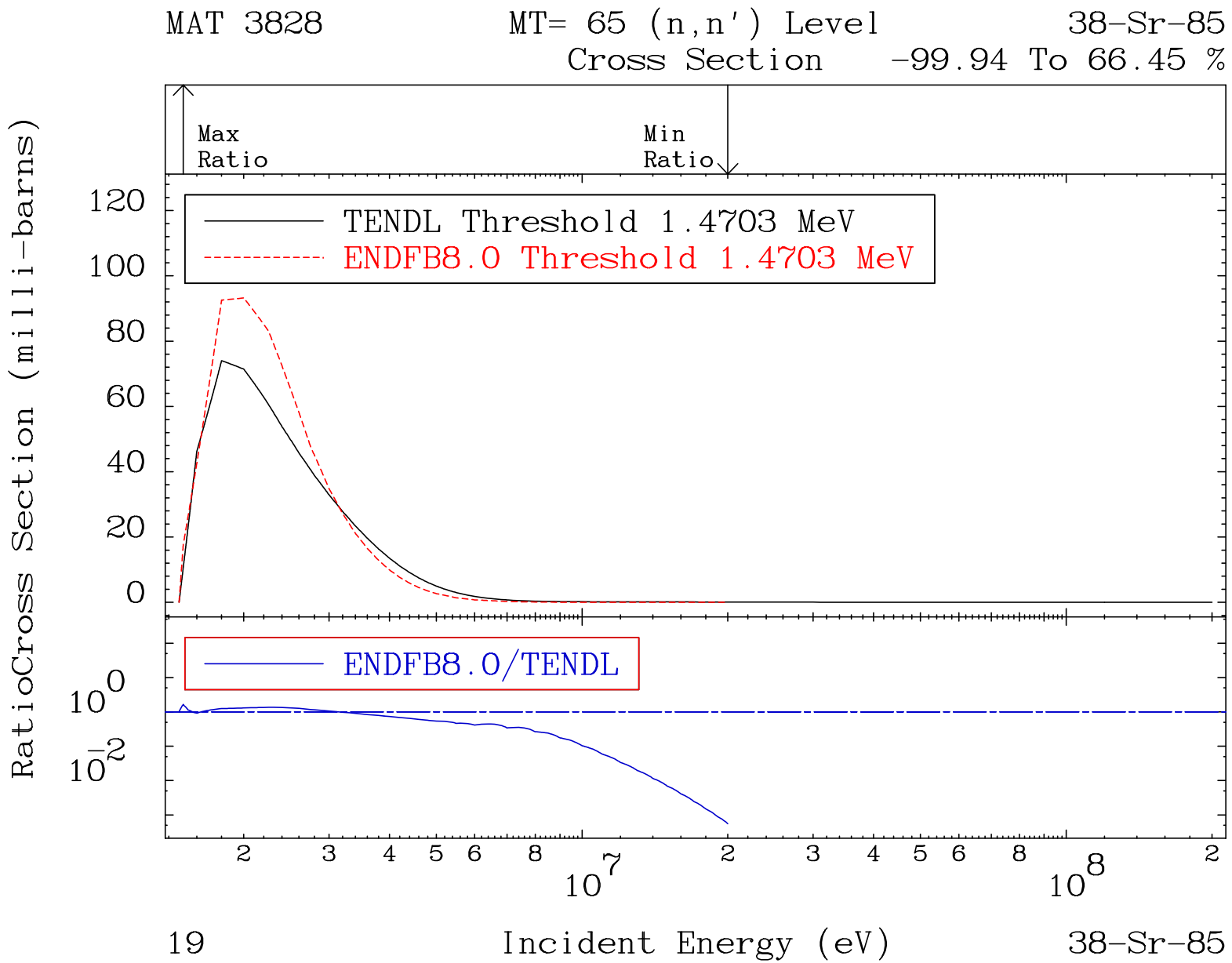

MAT 3828
MT= 60 (n,n') Level
38-Sr-85
Cross Section -100.0 To -11.20%
Max
Ratio
TENDL Threshold 1.2353 MeV
ENDFB8.0 Threshold 1.2769 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.8
0.4
0.0
2
3
4
5
6
8
10^7
2
3
4
5
6
8
10^8
2
14
Incident Energy (eV)
38-Sr-85

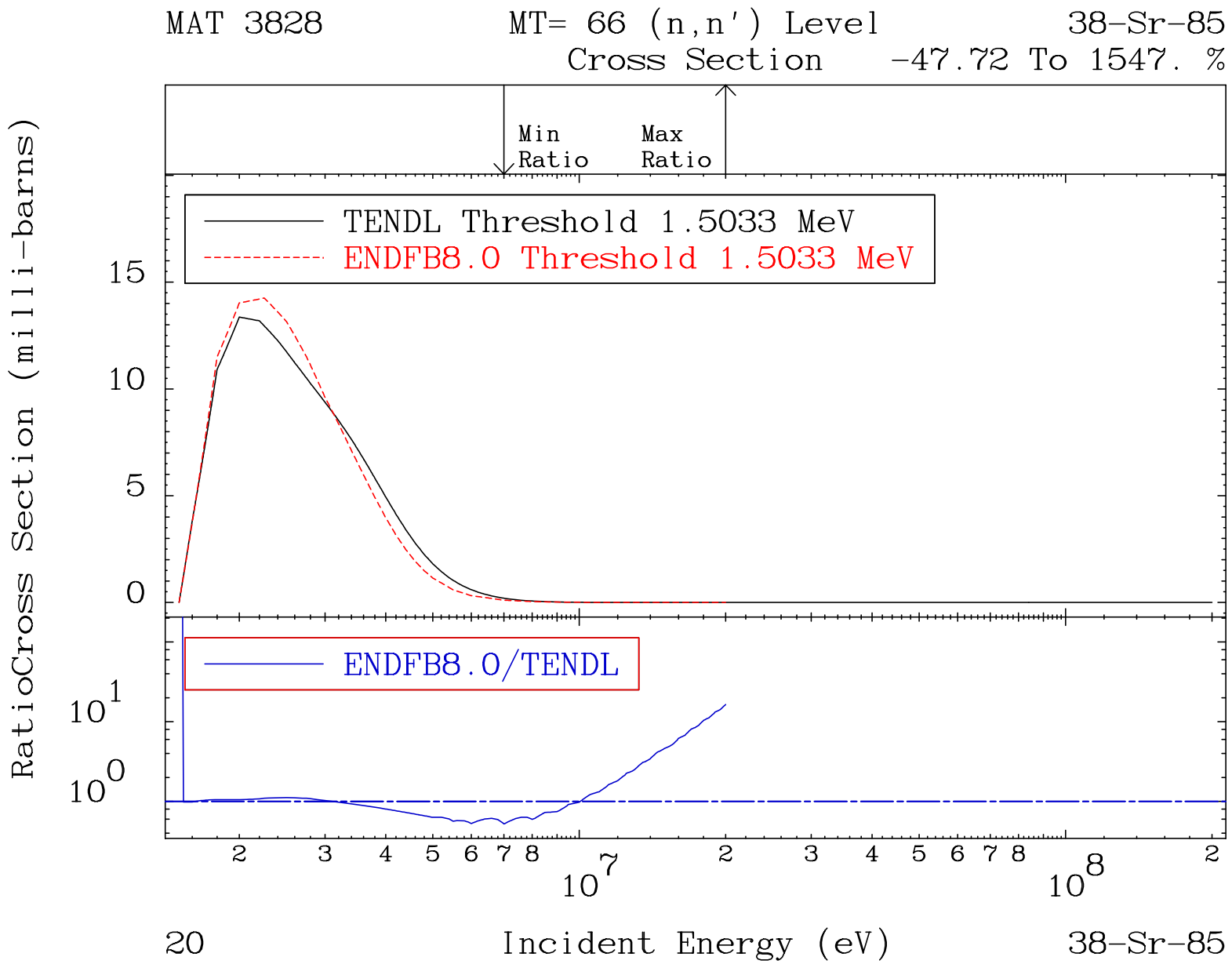

MAT 3828
MT= 61 (n,n') Level
38-Sr-85
Cross Section -100.0 To -59.71%
Min Ratio
Max Ratio
TENDL Threshold 1.2770 MeV
ENDFB8.0 Threshold 1.3712 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
0.6
0.4
0.2
0.0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
15
Incident Energy (eV)
38-Sr-85

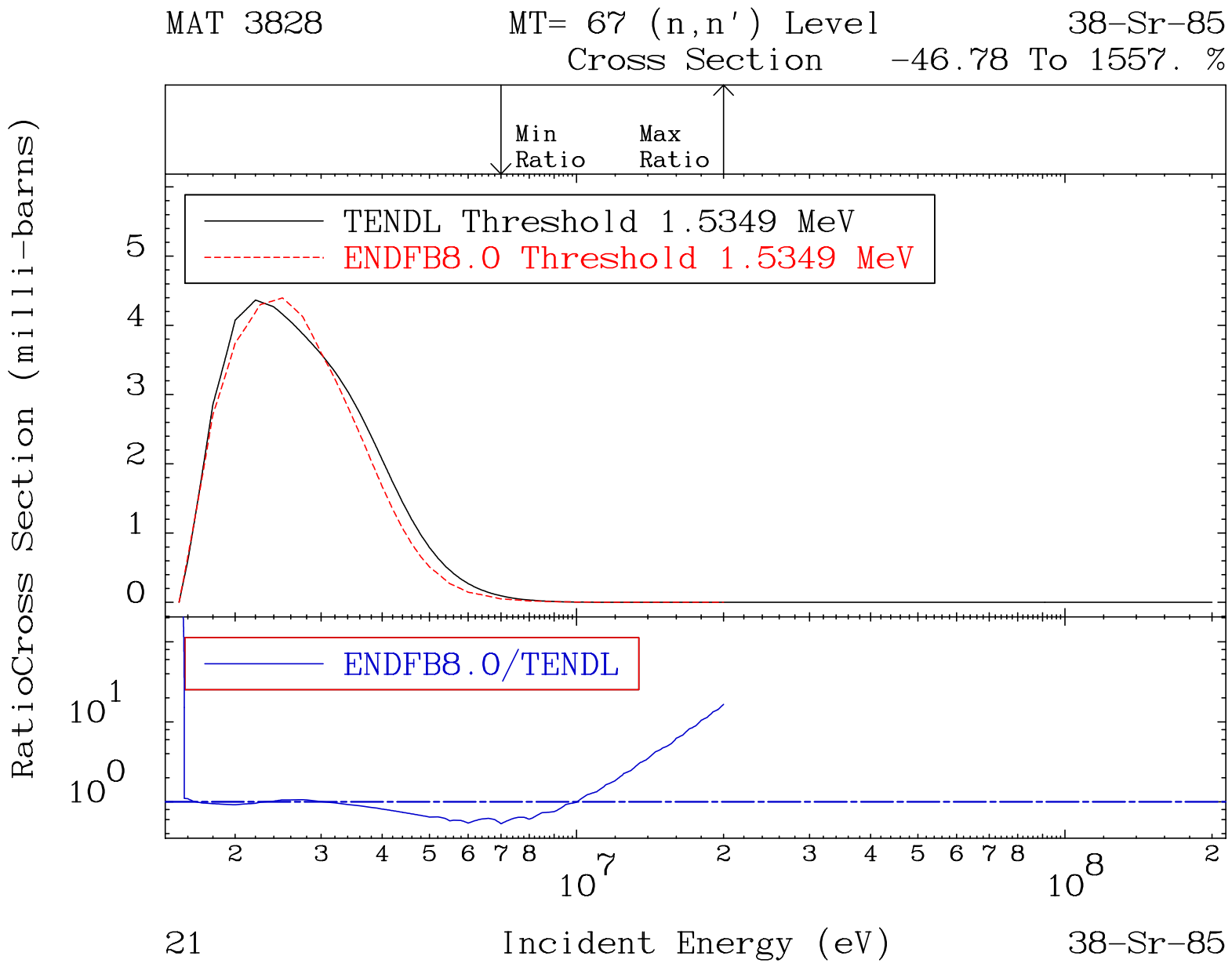

MAT 3828
MT= 62 (n,n') Level
38-Sr-85
Cross Section -100.0 To 469.7 %
Min Ratio
Max Ratio
TENDL Threshold 1.3712 MeV
ENDFB8.0 Threshold 1.4197 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
8
4
0
2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
16
Incident Energy (eV)
38-Sr-85

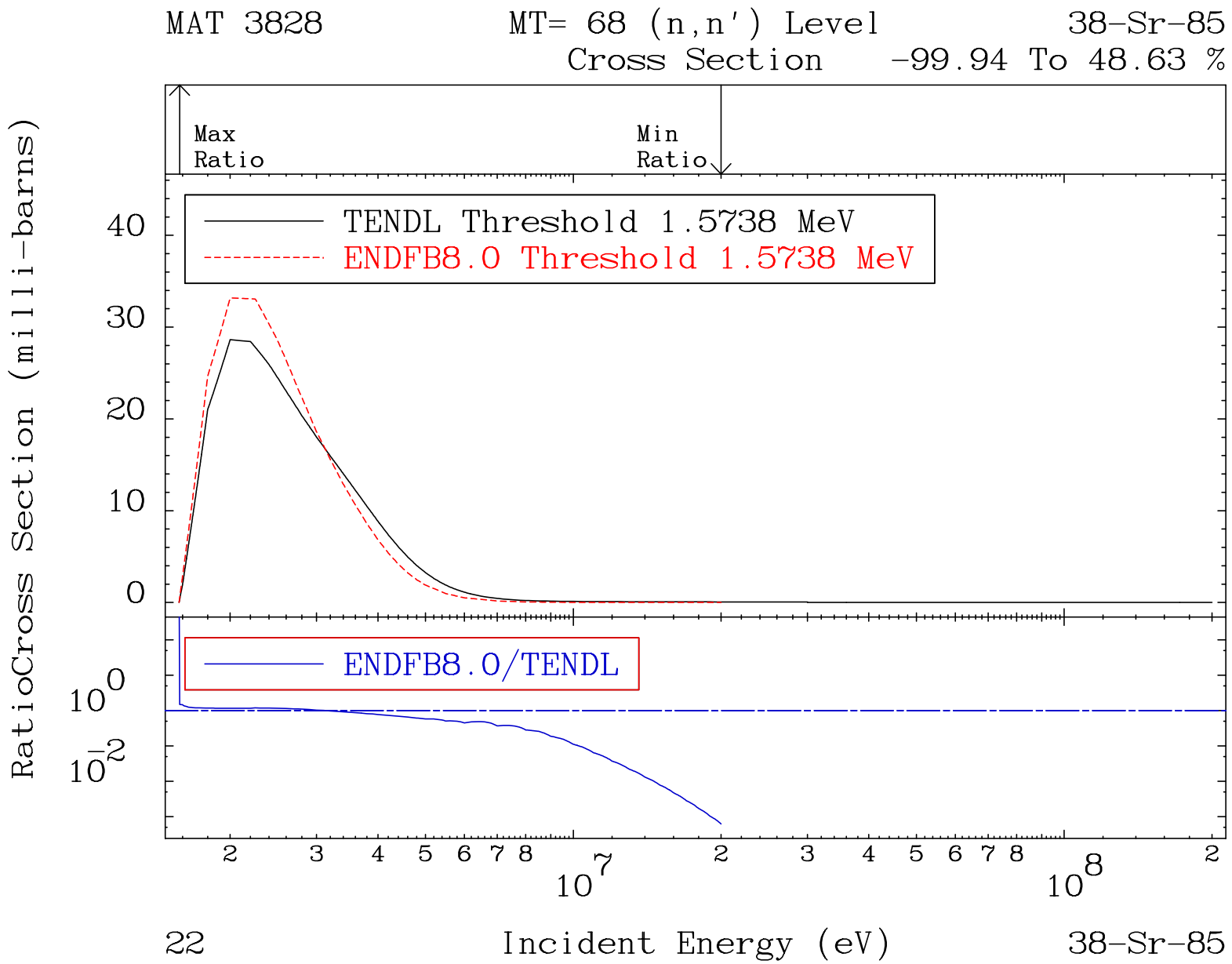

MAT 3828
MT= 63 (n,n') Level
38-Sr-85
Cross Section -100.0 To 3153. %
Min Ratio
Max Ratio
TENDL Threshold 1.4197 MeV
ENDFB8.0 Threshold 1.4216 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
17
38-Sr-85

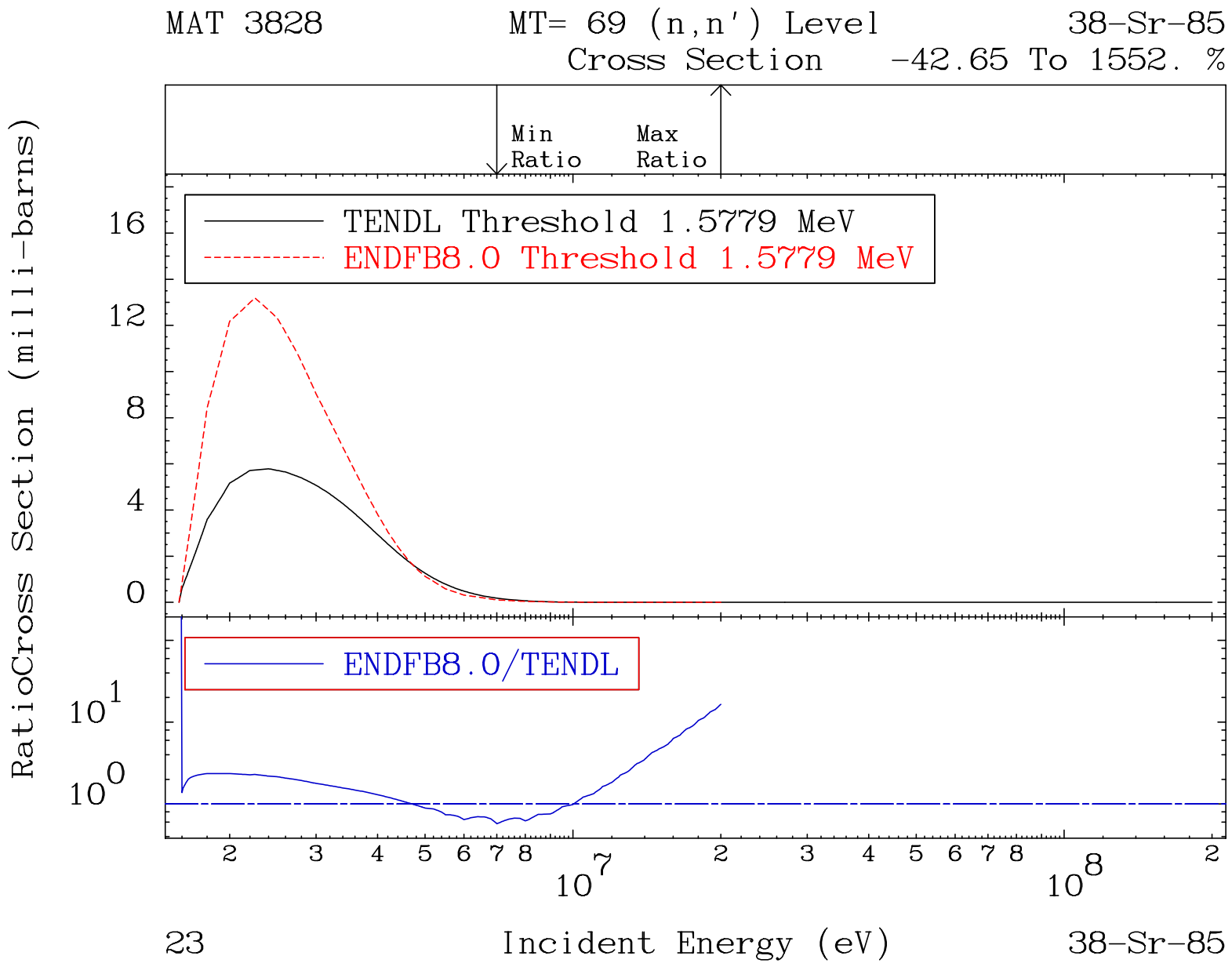

MAT 3828
MT= 64 (n,n') Level
38-Sr-85
Cross Section -49.07 To 1530. %
Min Ratio
Max Ratio
TENDL Threshold 1.4219 MeV
ENDFB8.0 Threshold 1.4219 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
18
38-Sr-85

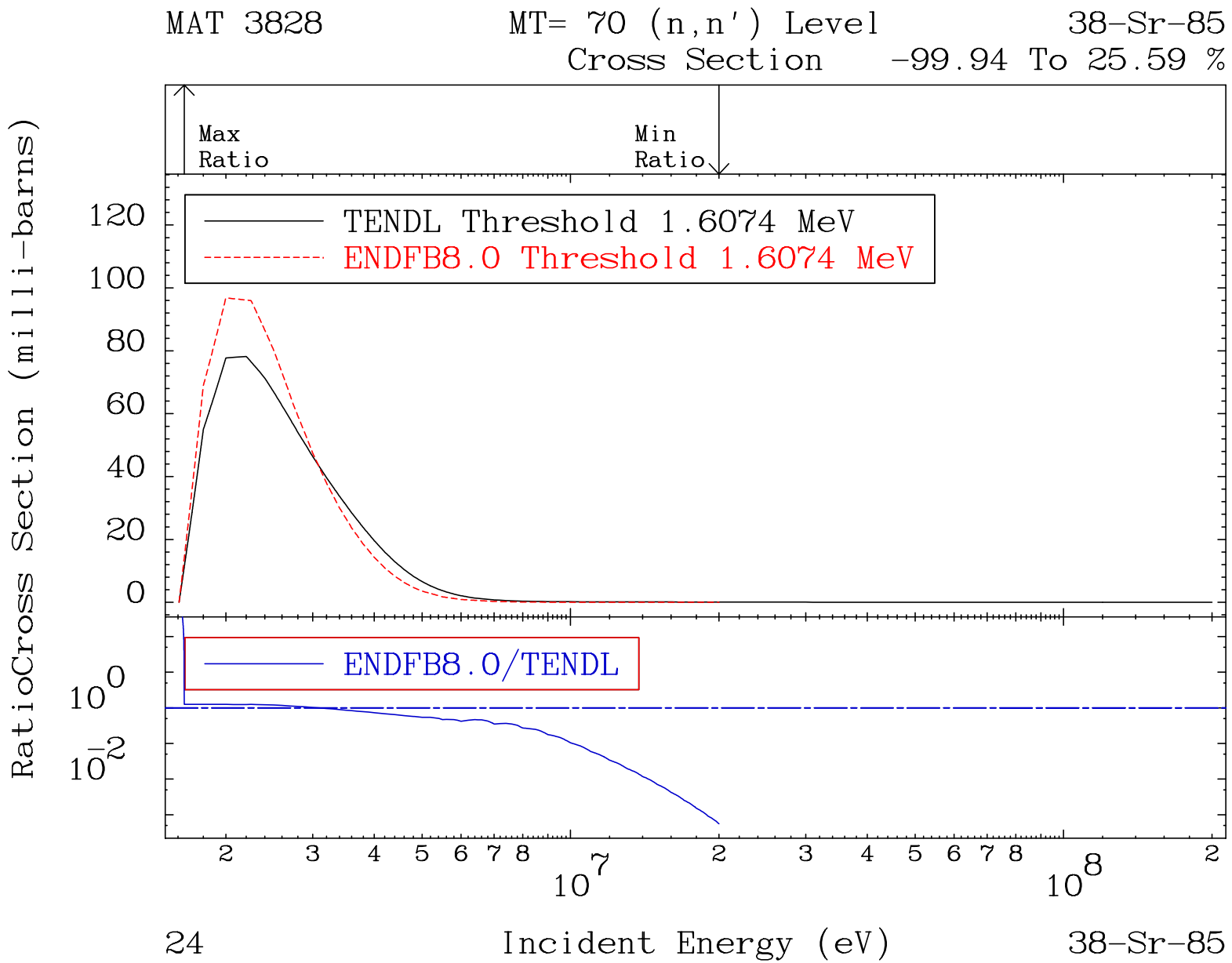

MAT 3828
MT= 65 (n,n') Level
38-Sr-85
Cross Section -99.94 To 66.45 %
Max Ratio
Min Ratio
TENDL Threshold 1.4703 MeV
ENDFB8.0 Threshold 1.4703 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^{0}
10^{-2}
2 3 4 5 6 8 10^{7} 2 3 4 5 6 8 10^{8} 2
19
Incident Energy (eV)
38-Sr-85

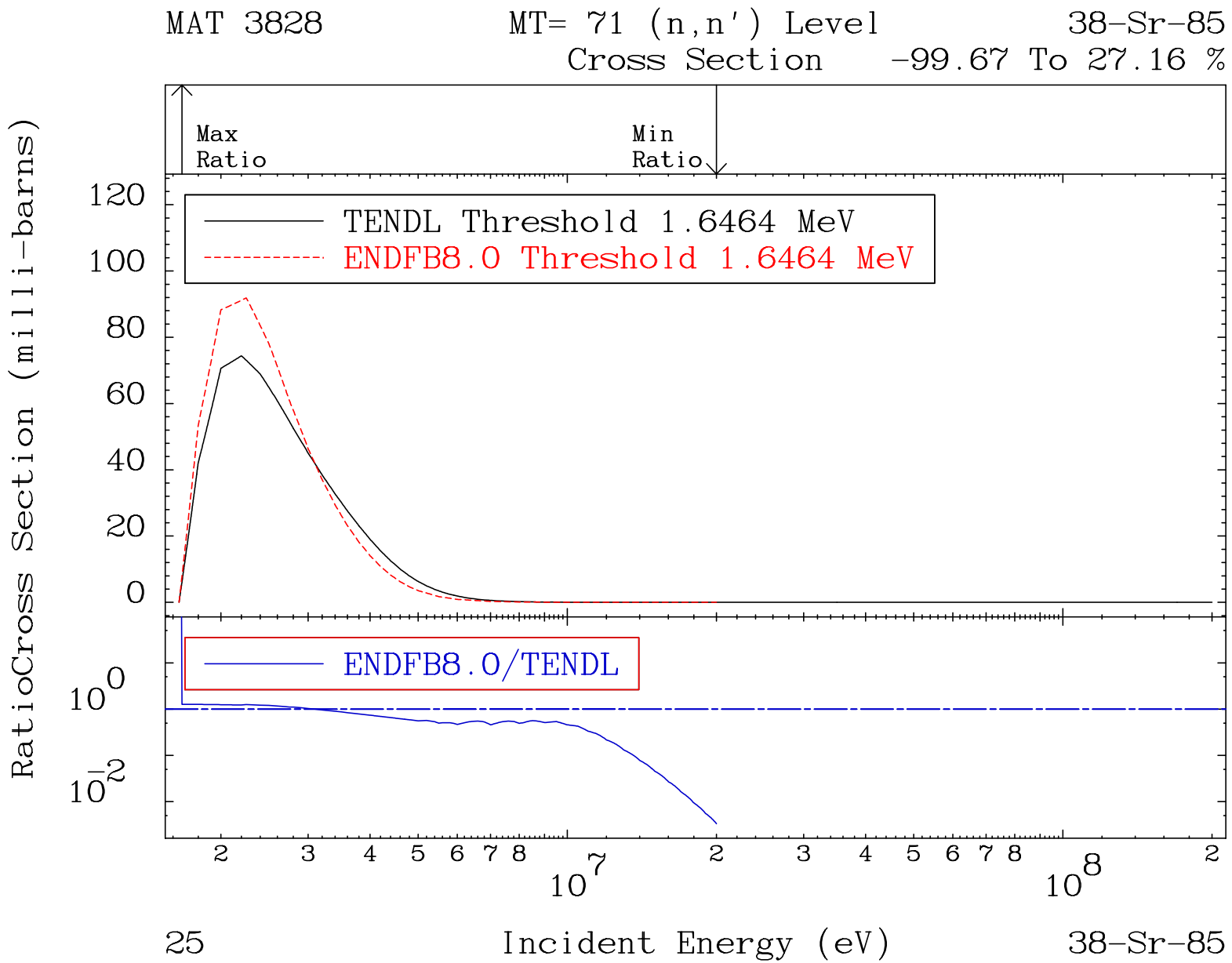

MAT 3828
MT= 66 (n,n') Level
38-Sr-85
Cross Section -47.72 To 1547. %
Min Ratio
Max Ratio
TENDL Threshold 1.5033 MeV
ENDFB8.0 Threshold 1.5033 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
20
Incident Energy (eV)
38-Sr-85

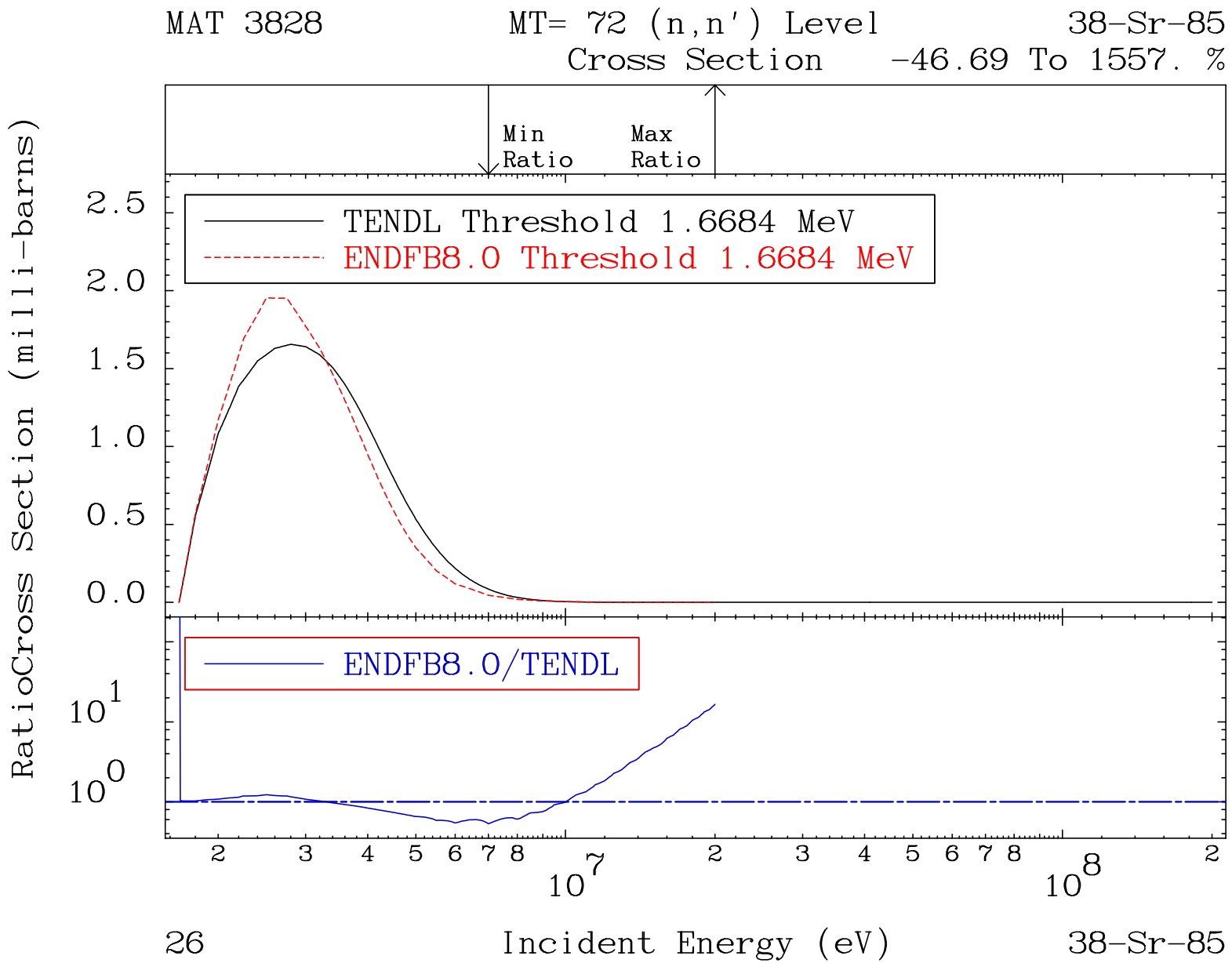

MAT 3828
MT= 67 (n,n') Level
38-Sr-85
Cross Section -46.78 To 1557. %
Min Ratio
Max Ratio
TENDL Threshold 1.5349 MeV
ENDFB8.0 Threshold 1.5349 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
21
38-Sr-85

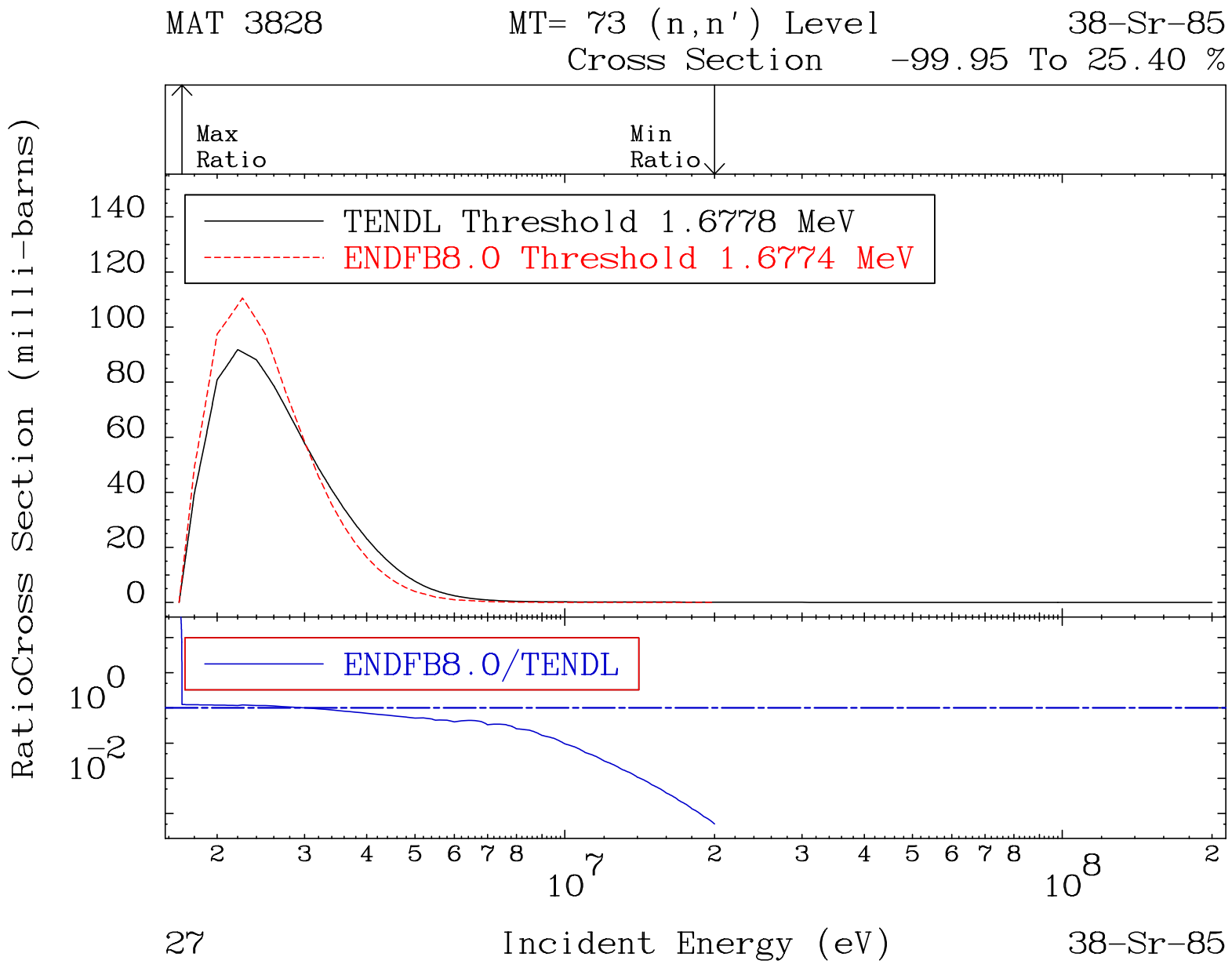

MAT 3828
MT= 68 (n,n') Level
38-Sr-85
Cross Section -99.94 To 48.63 %
Max Ratio
Min Ratio
TENDL Threshold 1.5738 MeV
ENDFB8.0 Threshold 1.5738 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
10^{0}
10^{-2}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
Incident Energy (eV)
22
38-Sr-85

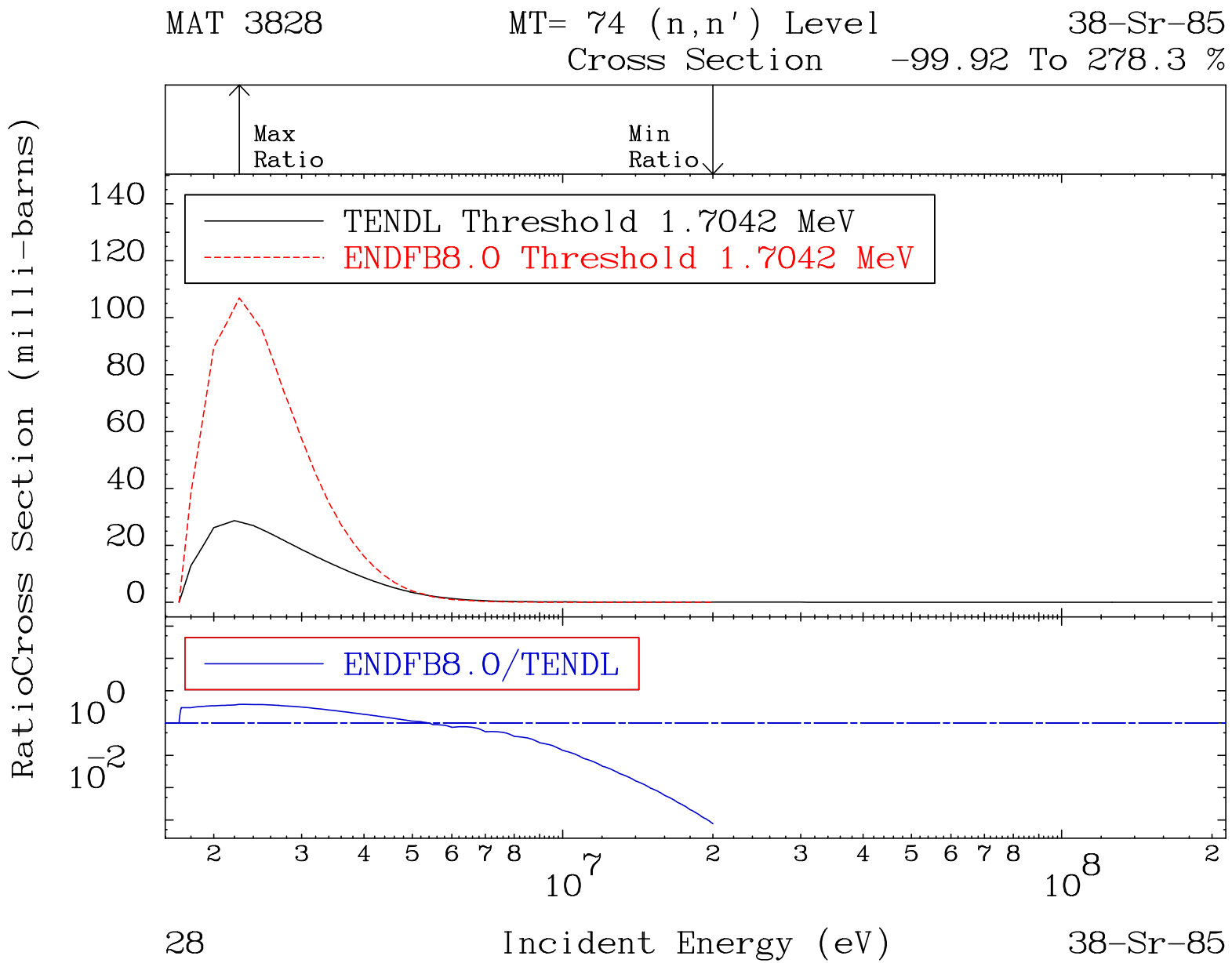

MAT 3828
MT= 69 (n,n') Level
38-Sr-85
Cross Section -42.65 To 1552. %
Min Ratio
Max Ratio
TENDL Threshold 1.5779 MeV
ENDFB8.0 Threshold 1.5779 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
23
Incident Energy (eV)
38-Sr-85

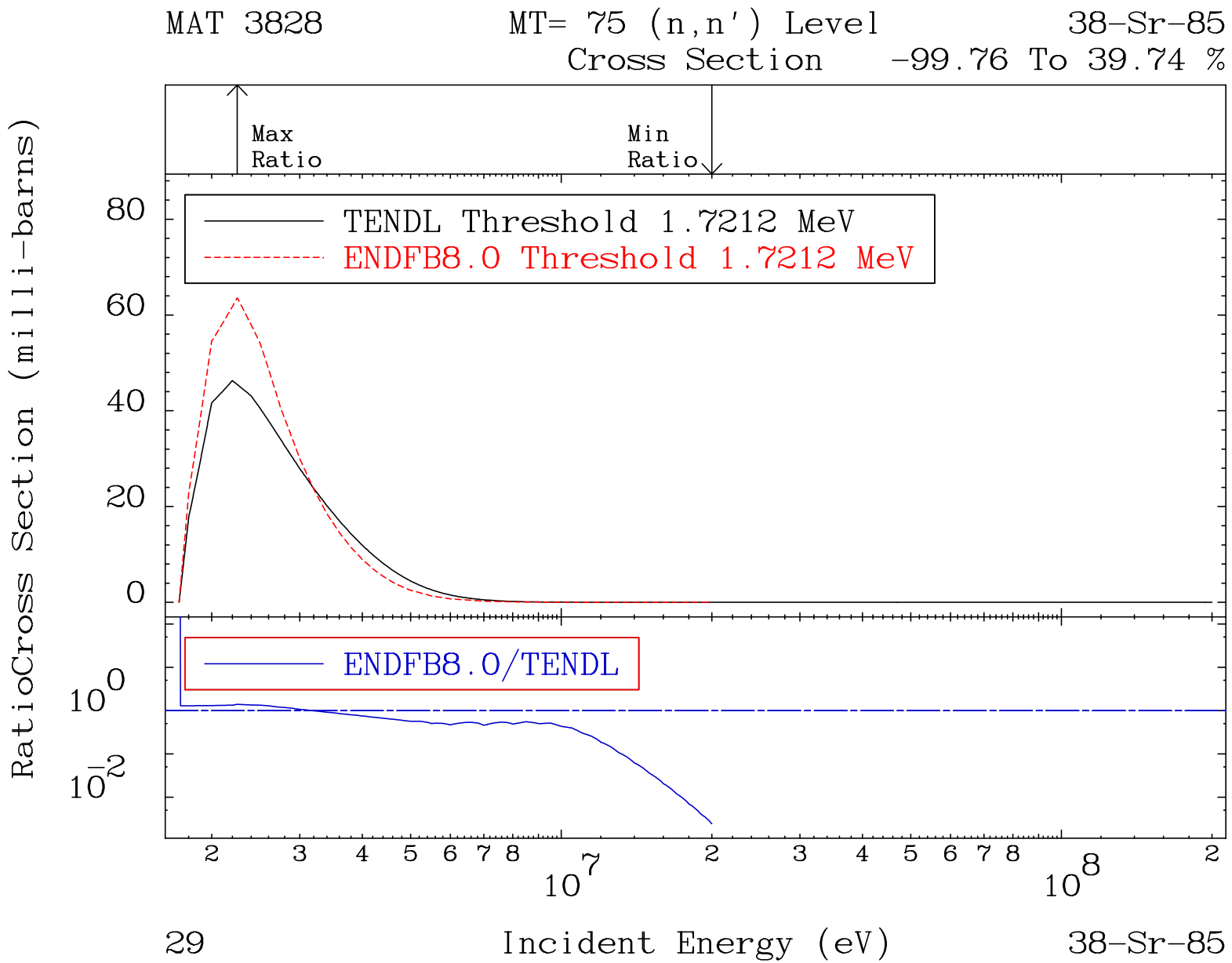

MAT 3828
MT= 70 (n,n') Level
38-Sr-85
Cross Section -99.94 To 25.59 %
Max Ratio
Min Ratio
TENDL Threshold 1.6074 MeV
ENDFB8.0 Threshold 1.6074 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^{0}
10^{-2}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
Incident Energy (eV)
24
38-Sr-85

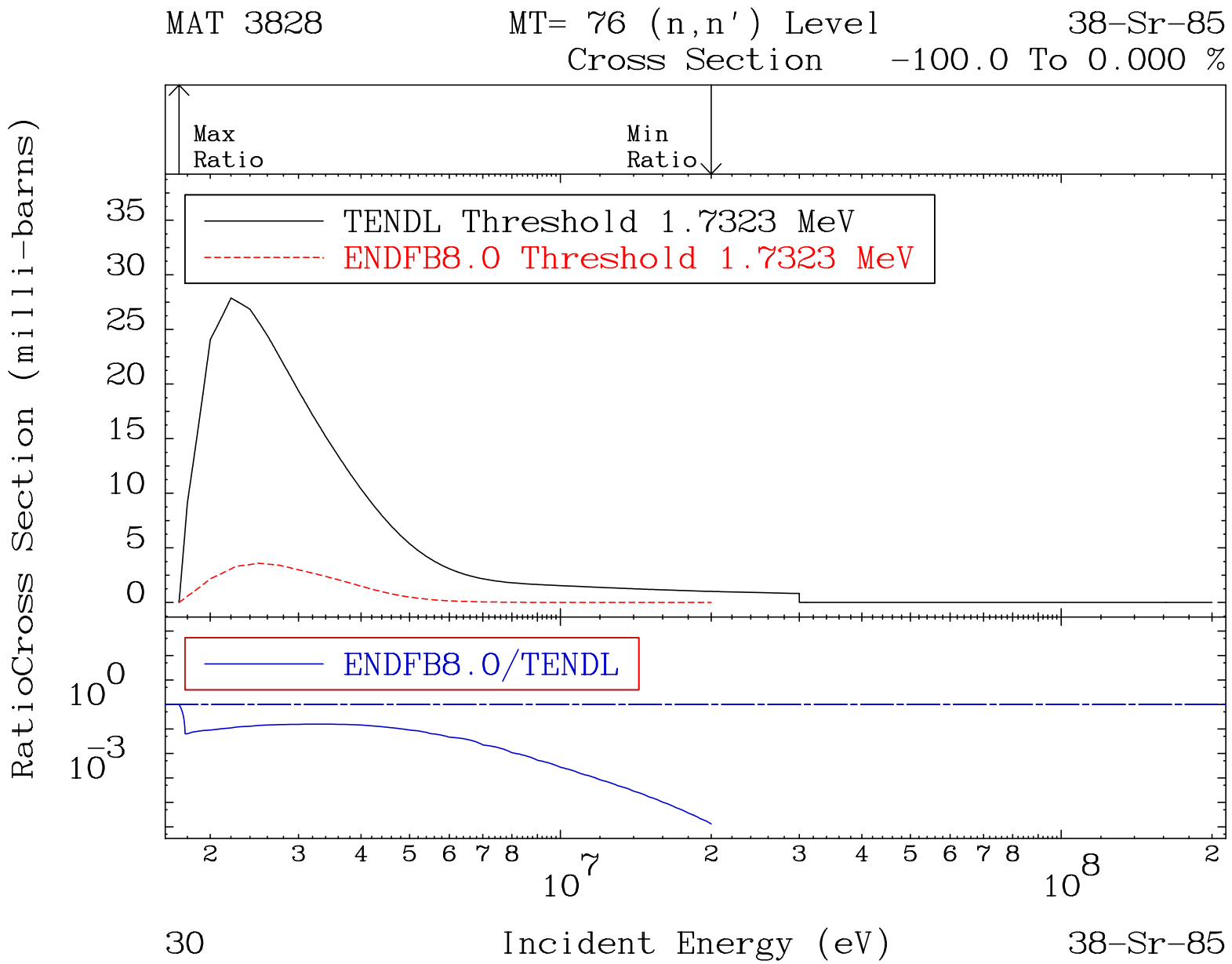

MAT 3828
MT= 71 (n,n') Level
38-Sr-85
Cross Section -99.67 To 27.16 %
Max Ratio
Min Ratio
TENDL Threshold 1.6464 MeV
ENDFB8.0 Threshold 1.6464 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
120
100
80
60
40
20
0
10^0
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
25
Incident Energy (eV)
38-Sr-85

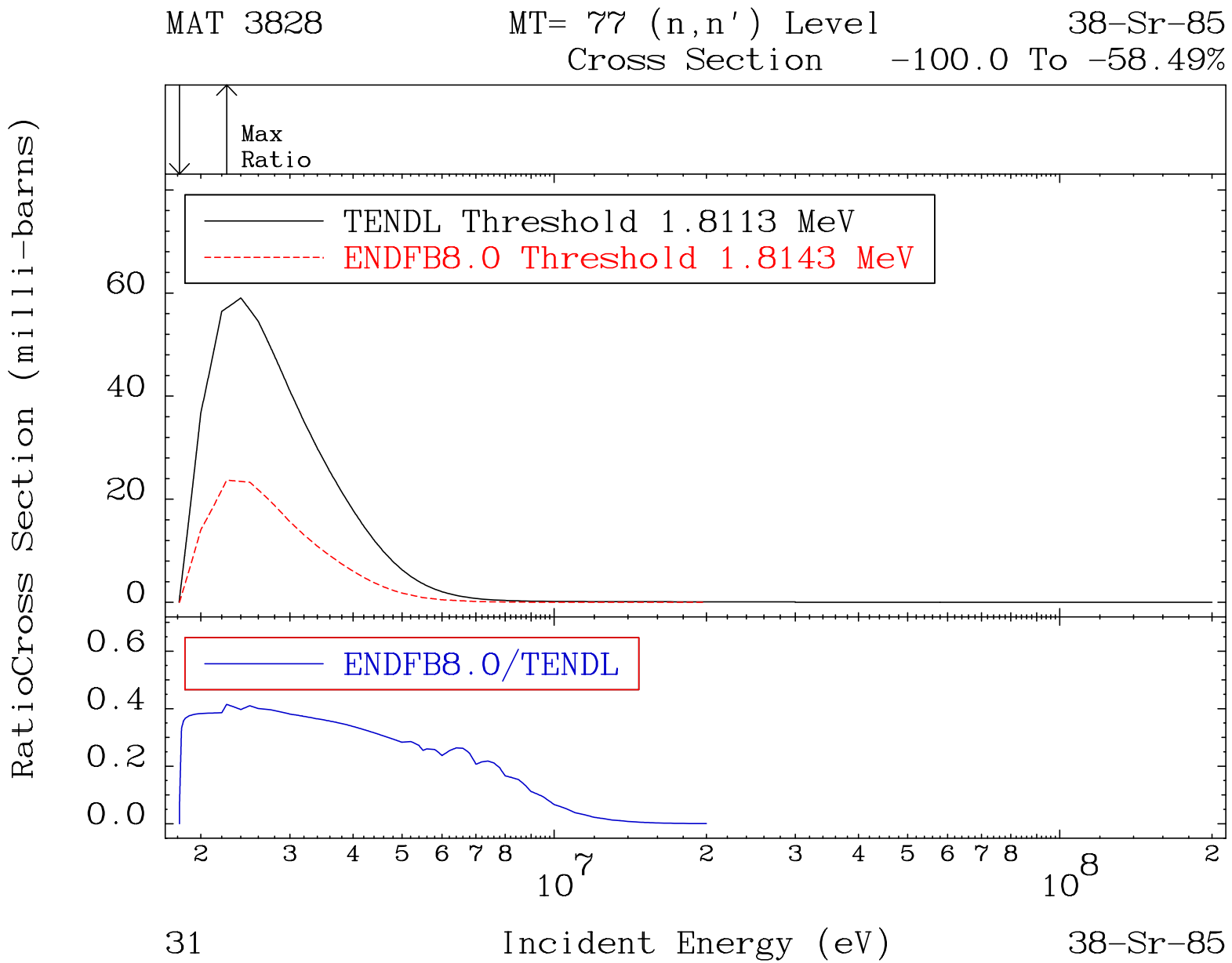

MAT 3828
MT= 72 (n,n') Level
38-Sr-85
Cross Section -46.69 To 1557. %
Min Ratio
Max Ratio
TENDL Threshold 1.6684 MeV
ENDFB8.0 Threshold 1.6684 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
2.5
2.0
1.5
1.0
0.5
0.0
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
26
Incident Energy (eV)
38-Sr-85

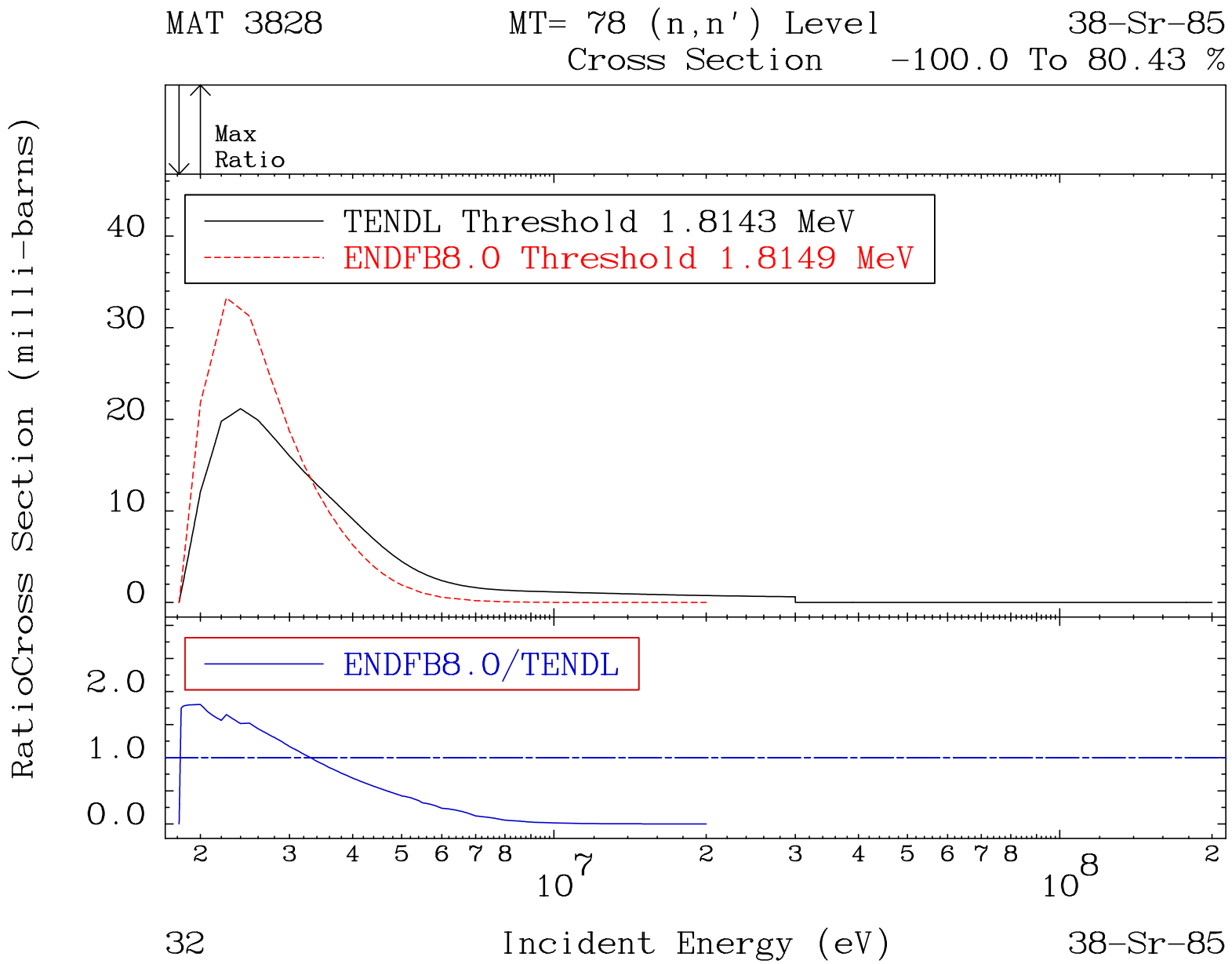

MAT 3828
MT= 73 (n,n') Level
38-Sr-85
Cross Section -99.95 To 25.40 %
Max Ratio
Min Ratio
TENDL Threshold 1.6778 MeV
ENDFB8.0 Threshold 1.6774 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^{0}
10^{-2}
2 3 4 5 6 7 8 10^{7} 2 3 4 5 6 7 8 10^{8} 2
Incident Energy (eV)
27
38-Sr-85

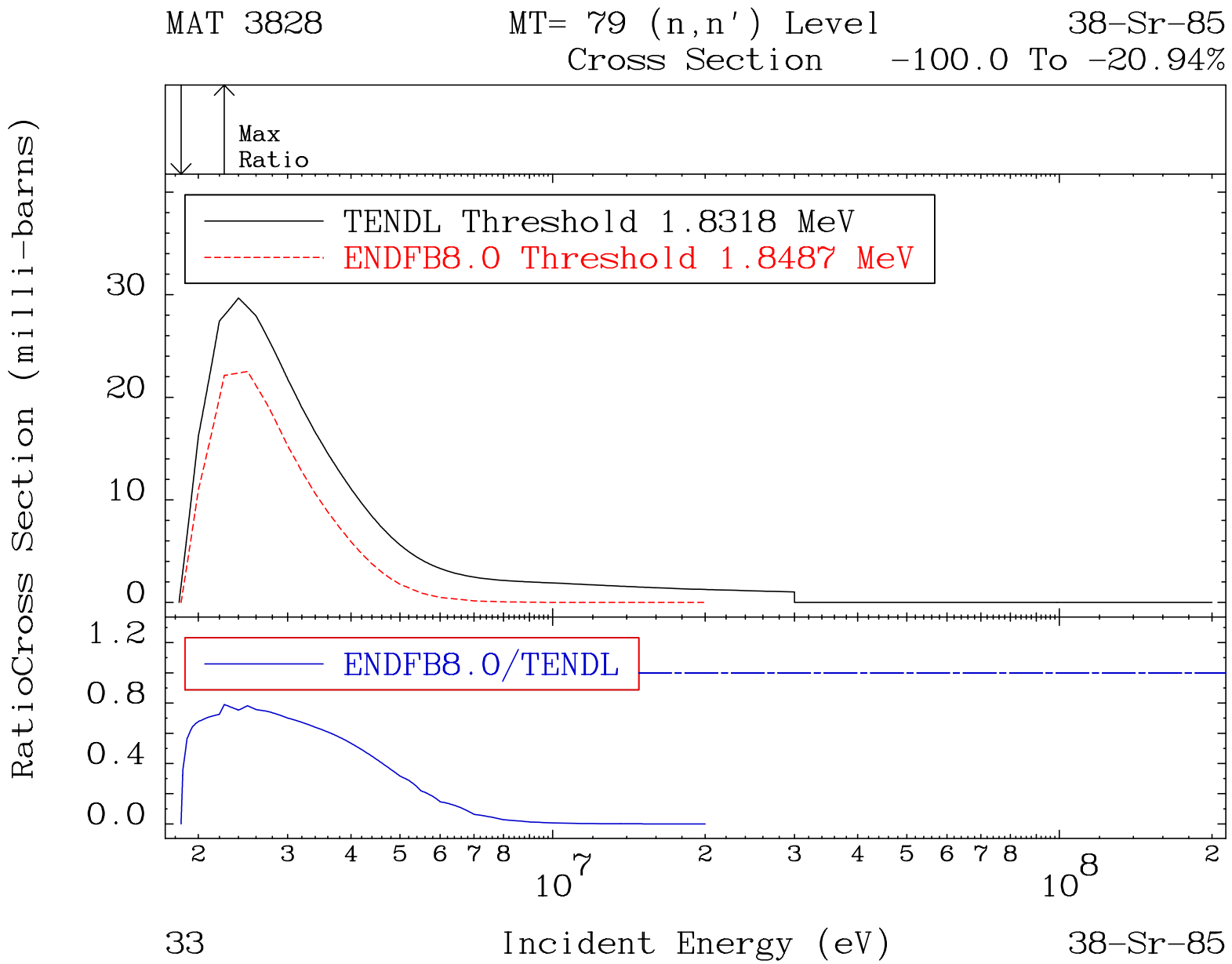

MAT 3828
MT= 74 (n,n') Level
38-Sr-85
Cross Section -99.92 To 278.3 %
Max Ratio
Min Ratio
TENDL Threshold 1.7042 MeV
ENDFB8.0 Threshold 1.7042 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
140
120
100
80
60
40
20
0
10^0
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
38-Sr-85

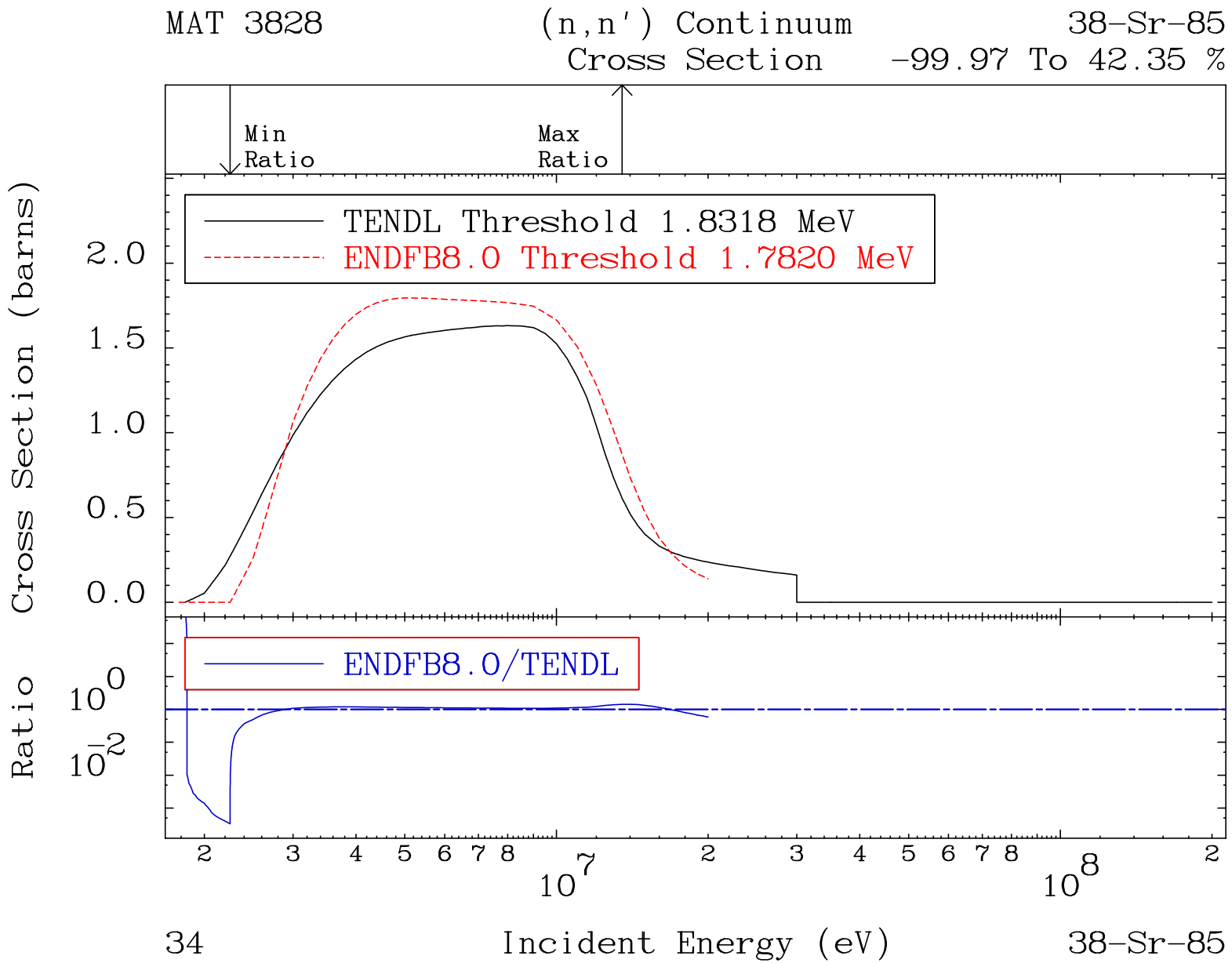

MAT 3828
MT= 75 (n,n') Level
38-Sr-85
Cross Section -99.76 To 39.74 %
Max Ratio
Min Ratio
TENDL Threshold 1.7212 MeV
ENDFB8.0 Threshold 1.7212 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
10^0
10^-2
2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
29
Incident Energy (eV)
38-Sr-85

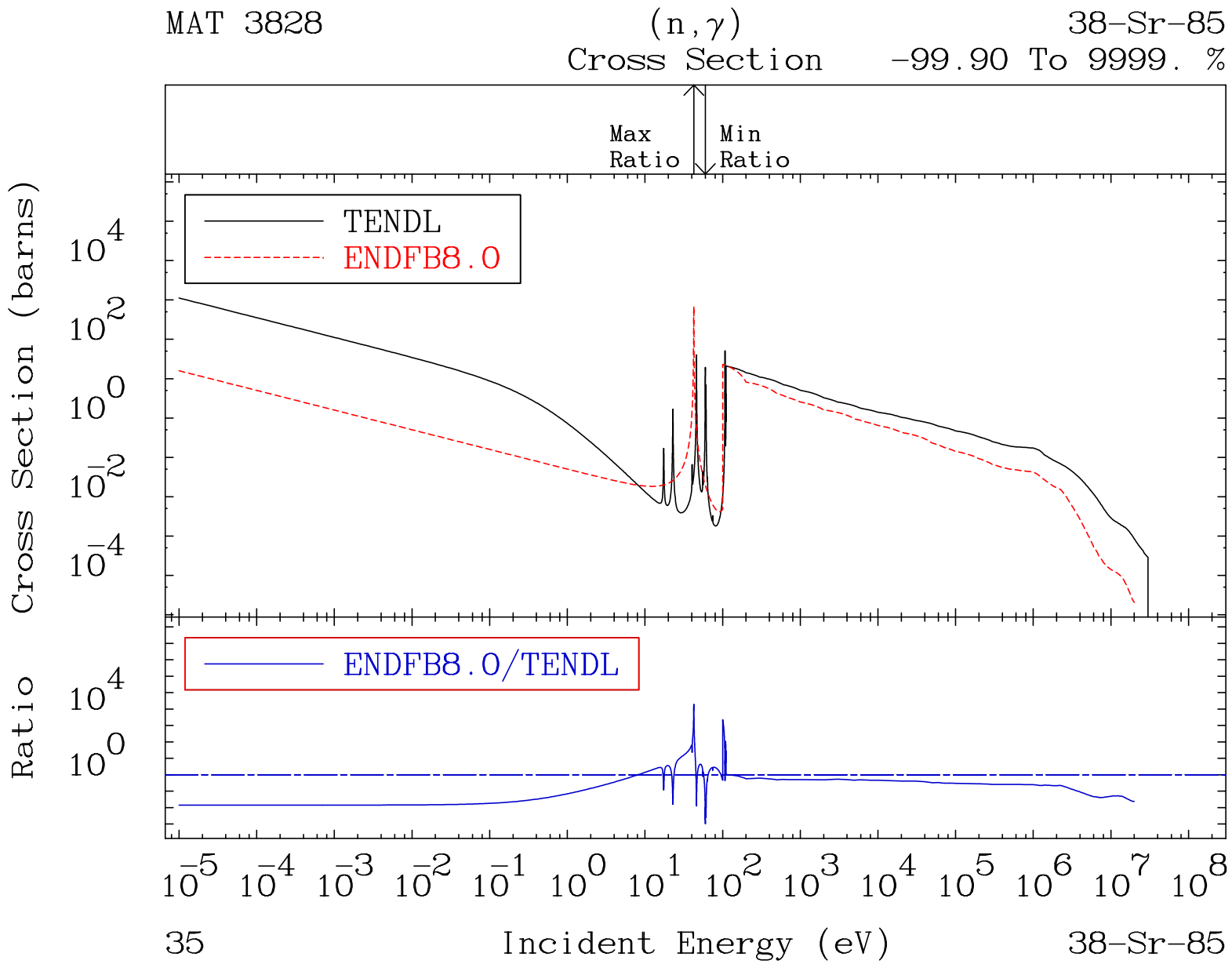

MAT 3828
MT= 76 (n,n') Level
38-Sr-85
Cross Section -100.0 To 0.000 %
Max Ratio
Min Ratio
TENDL Threshold 1.7323 MeV
ENDFB8.0 Threshold 1.7323 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
35
30
25
20
15
10
5
0
10^0
10^-3
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
30
Incident Energy (eV)
38-Sr-85

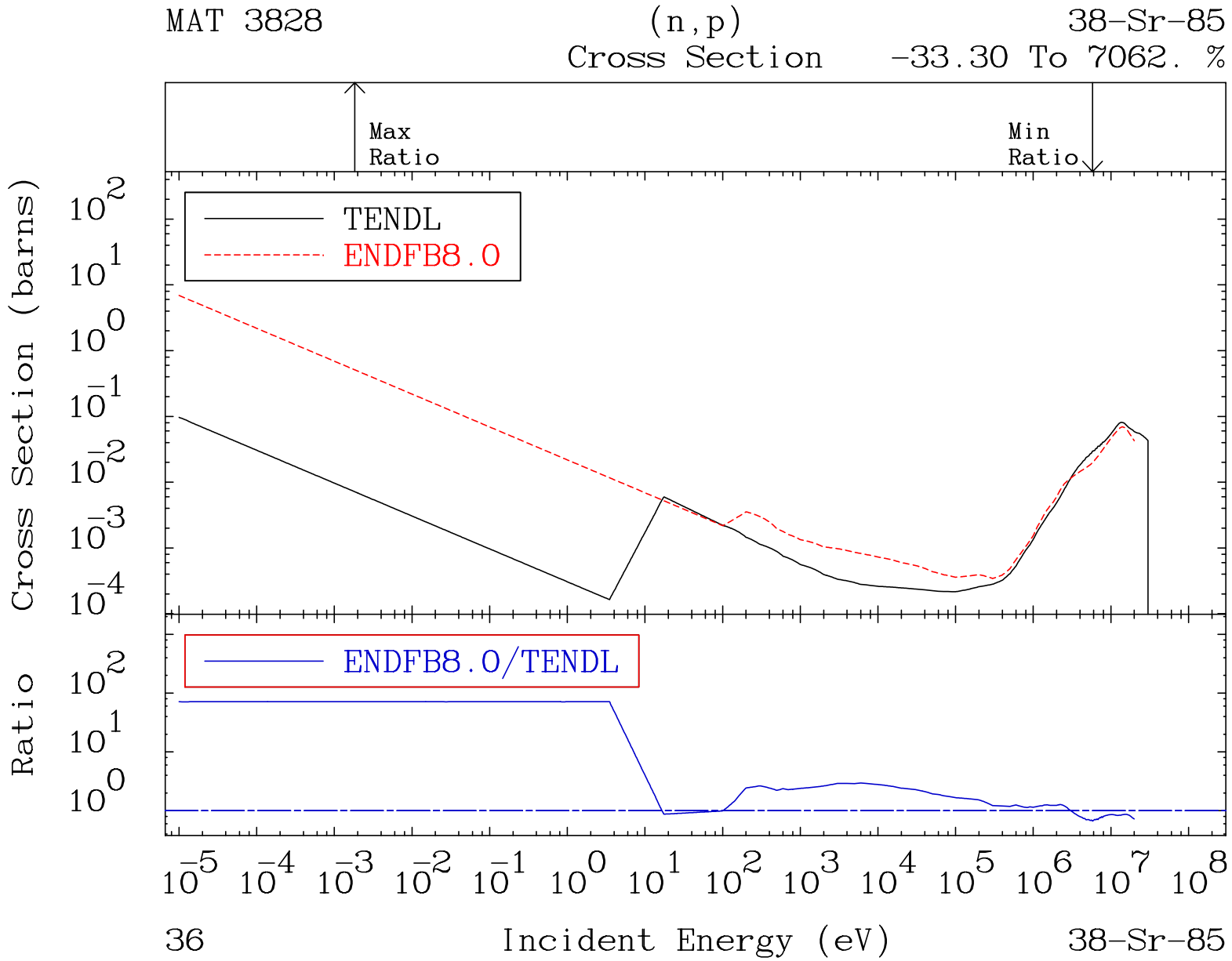

MAT 3828
MT= 77 (n,n') Level
38-Sr-85
Cross Section -100.0 To -58.49%
Max
Ratio
TENDL Threshold 1.8113 MeV
ENDFB8.0 Threshold 1.8143 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
60
40
20
0
0.6
0.4
0.2
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
31
Incident Energy (eV)
38-Sr-85

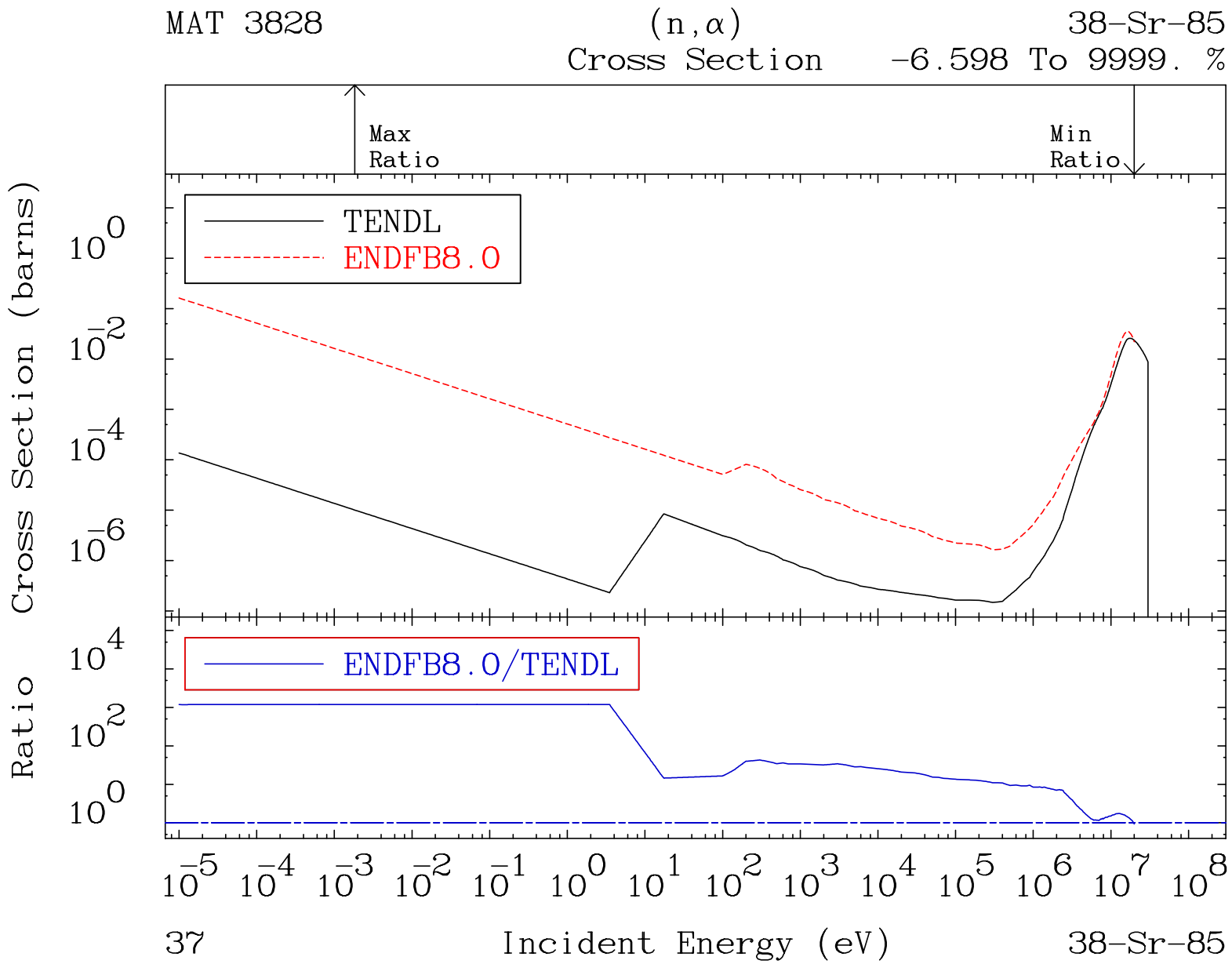

MAT 3828
MT= 78 (n,n') Level
38-Sr-85
Cross Section
-100.0 To 80.43 %
Max
Ratio
TENDL Threshold 1.8143 MeV
ENDFB8.0 Threshold 1.8149 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
2.0
1.0
0.0
2
3
4
5
6
7
8
10^7
10^8
32
Incident Energy (eV)
38-Sr-85

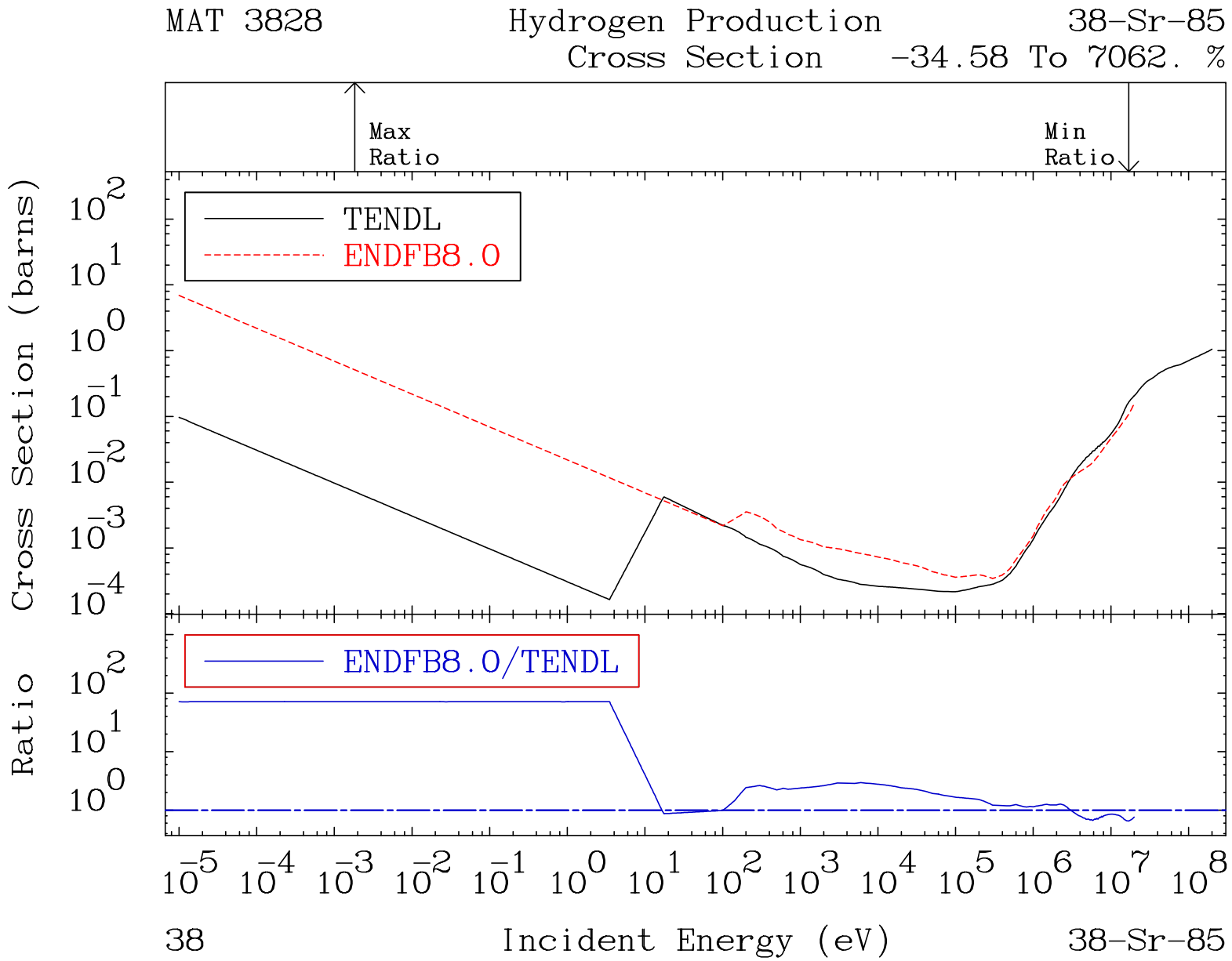

MAT 3828
MT= 79 (n,n') Level
38-Sr-85
Cross Section -100.0 To -20.94%
Max
Ratio
TENDL Threshold 1.8318 MeV
ENDFB8.0 Threshold 1.8487 MeV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.8
0.4
0.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
33
Incident Energy (eV)
38-Sr-85

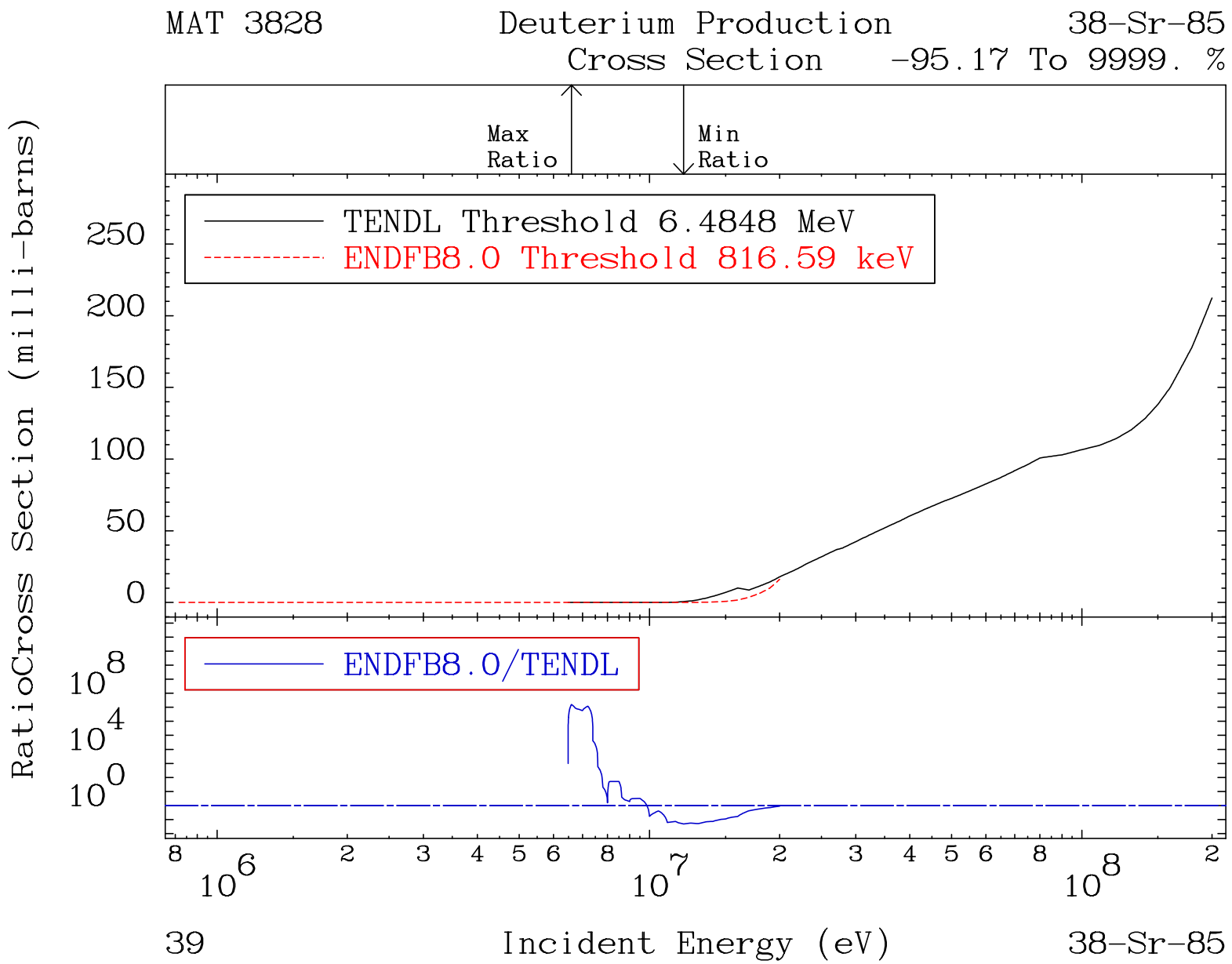

MAT 3828
(n,n') Continuum
Cross Section
38-Sr-85
-99.97 To 42.35 %
Min Ratio
Max Ratio
TENDL Threshold 1.8318 MeV
ENDFB8.0 Threshold 1.7820 MeV
Cross Section (barns)
2.0
1.5
1.0
0.5
0.0
ENDFB8.0/TENDL
Ratio
10^0
10^-2
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
34
Incident Energy (eV)
38-Sr-85

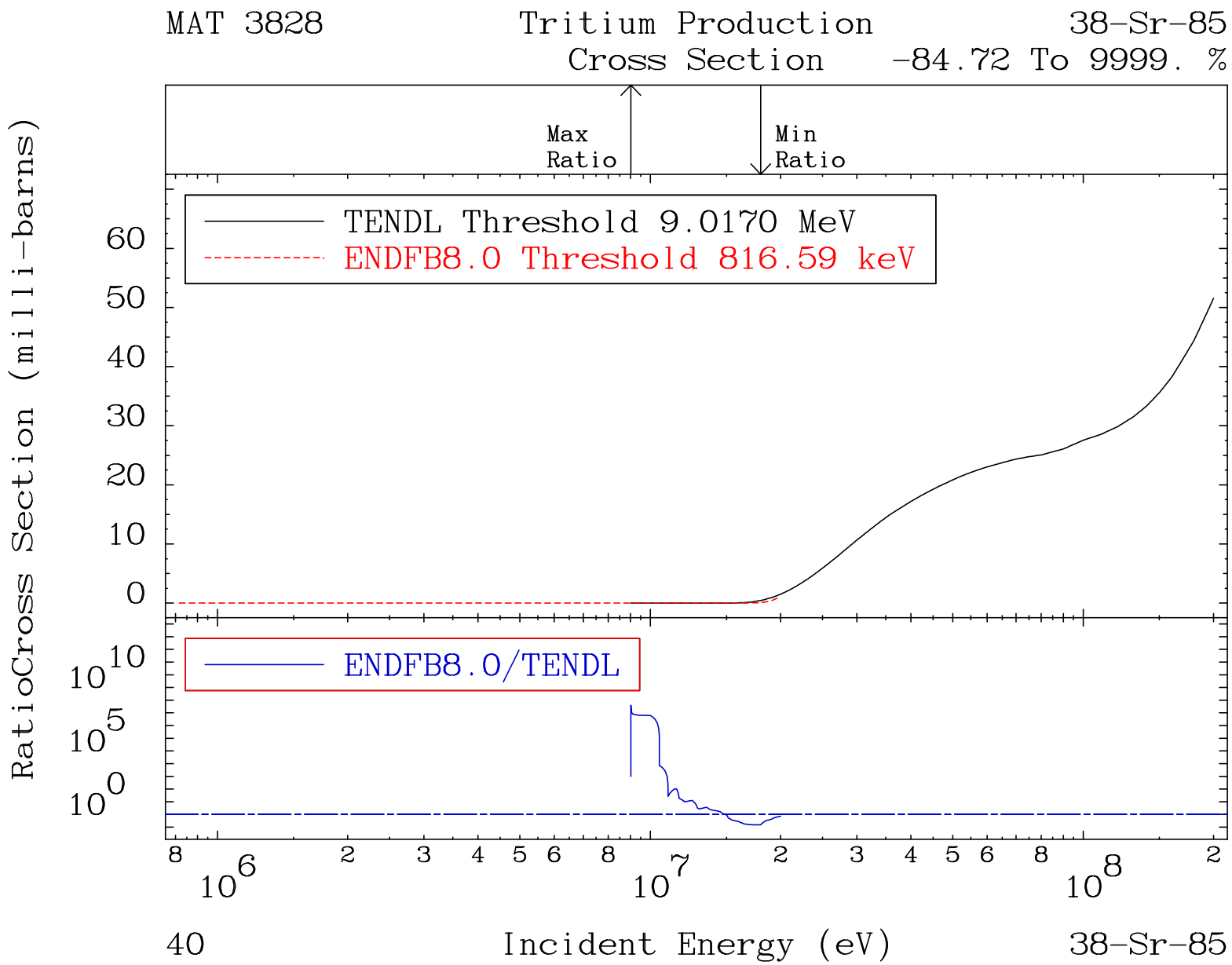

MAT 3828
(n,γ)
Cross Section
38-Sr-85
-99.90 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
38-Sr-85

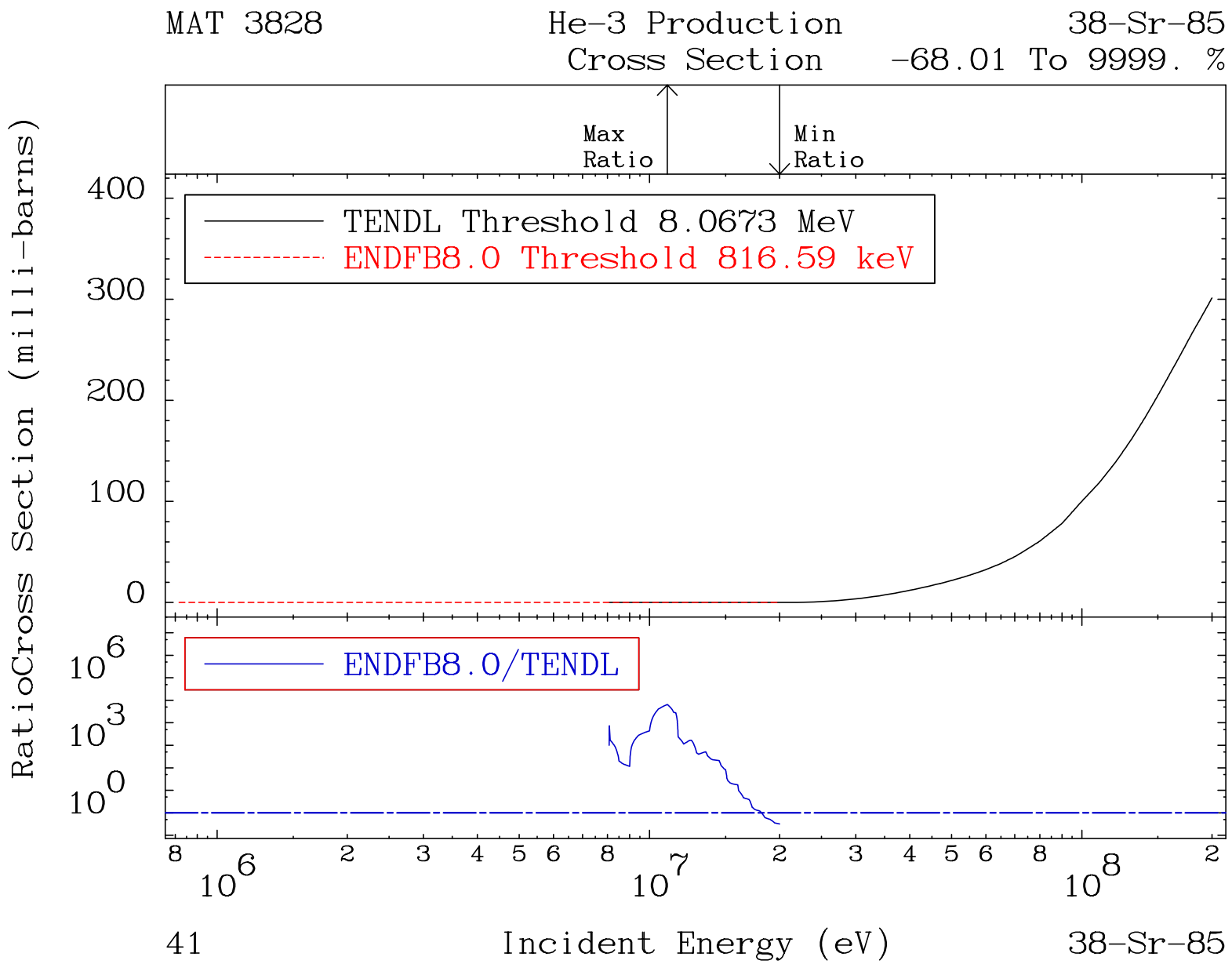

MAT 3828
(n,p)
Cross Section
38-Sr-85
-33.30 To 7062. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
36
38-Sr-85

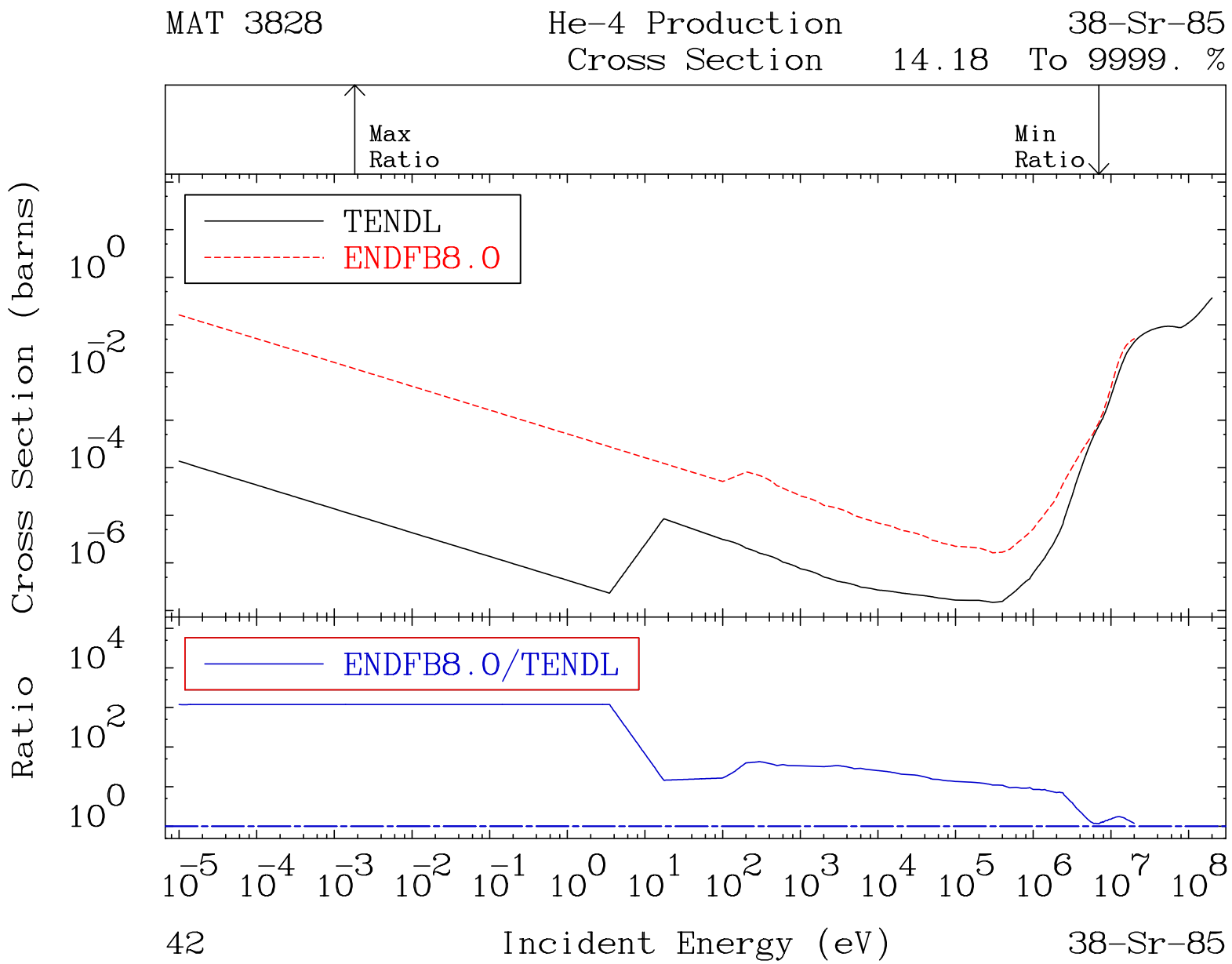

MAT 3828
(n,α)
38-Sr-85
Cross Section
-6.598 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
37
38-Sr-85

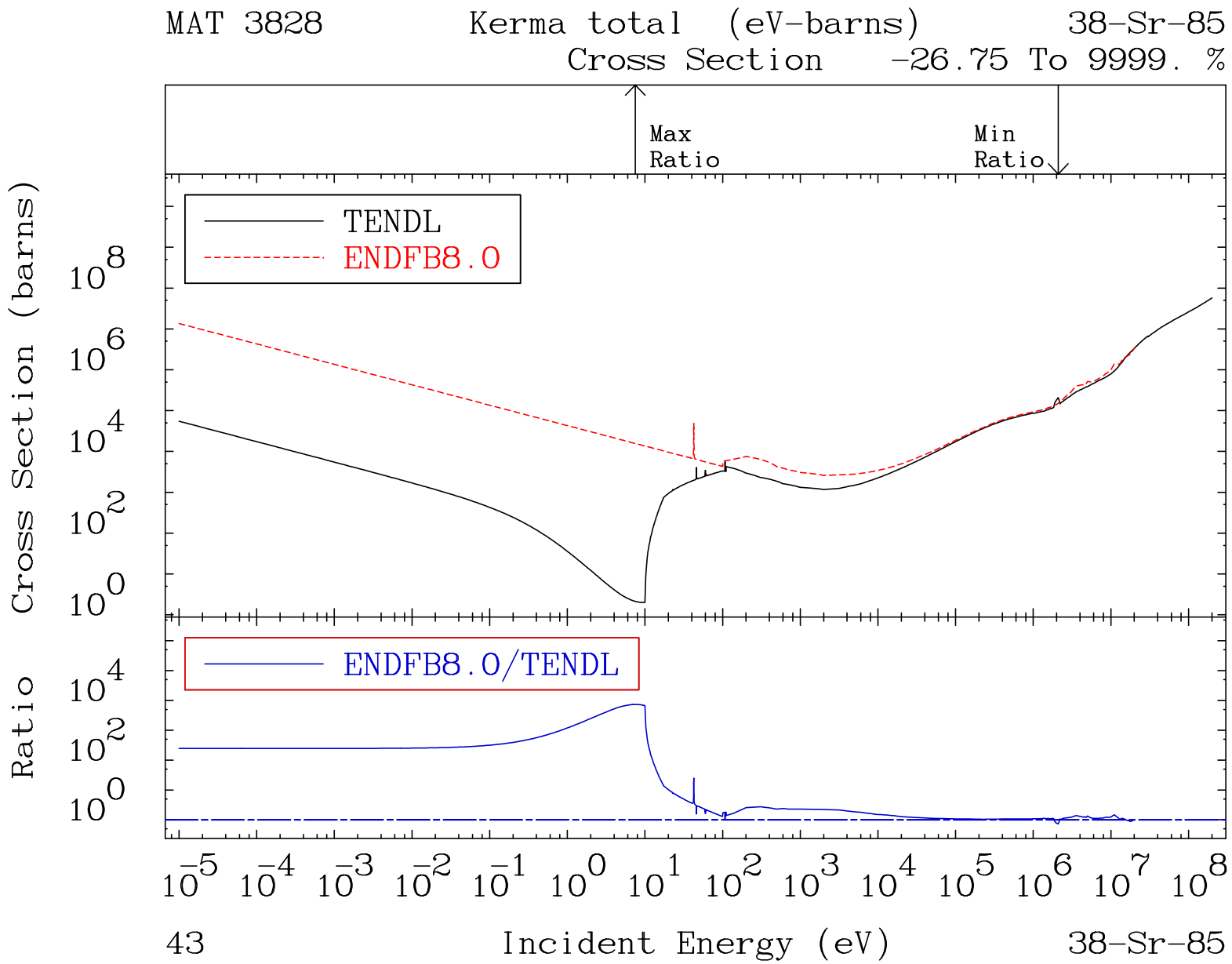

MAT 3828
Hydrogen Production
38-Sr-85
Cross Section
-34.58 To 7062. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
38
38-Sr-85

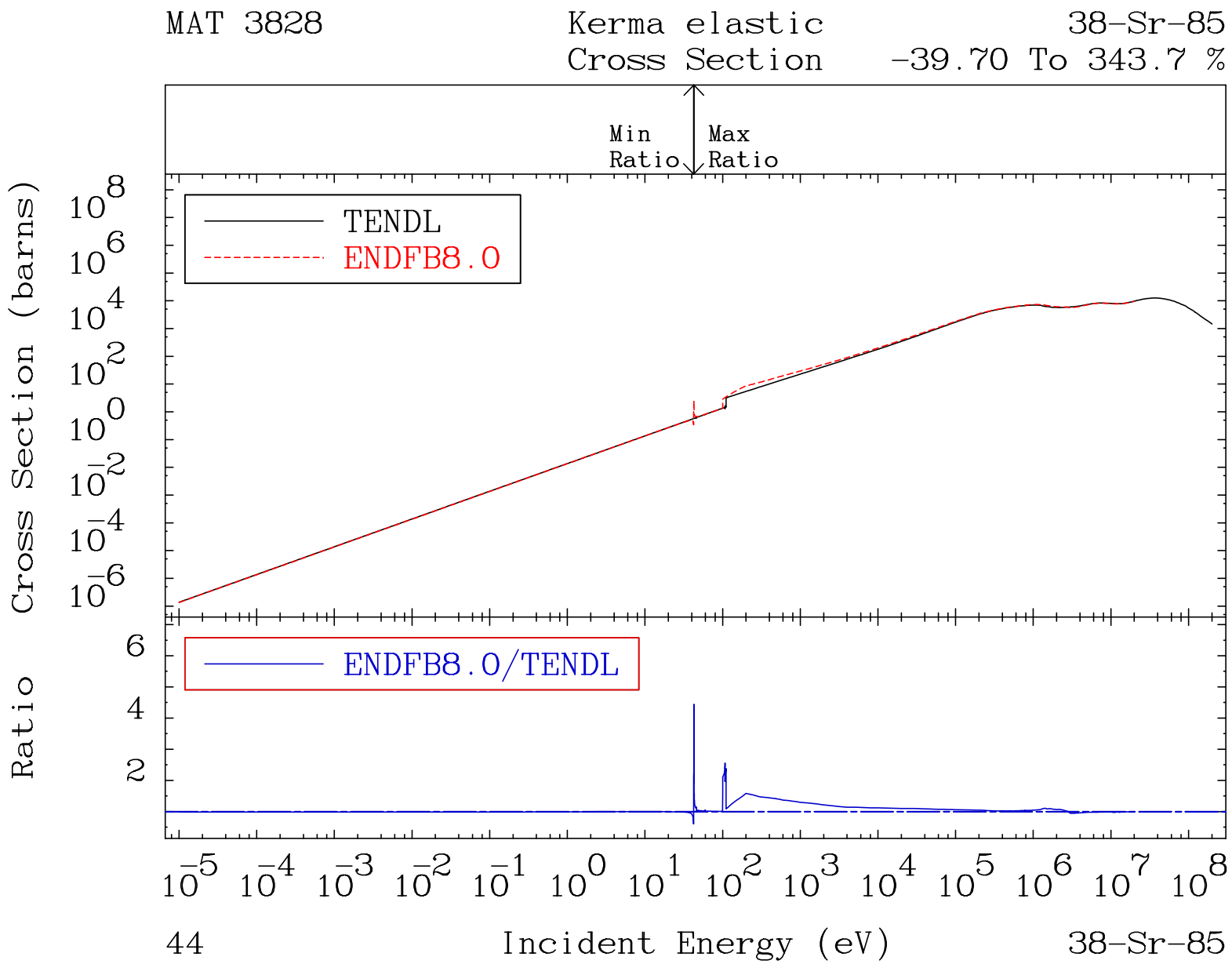

MAT 3828
Deuterium Production
38-Sr-85
Cross Section -95.17 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.4848 MeV
ENDFB8.0 Threshold 816.59 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^8
10^4
10^0
8 2 3 4 5 6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
39
Incident Energy (eV)
38-Sr-85

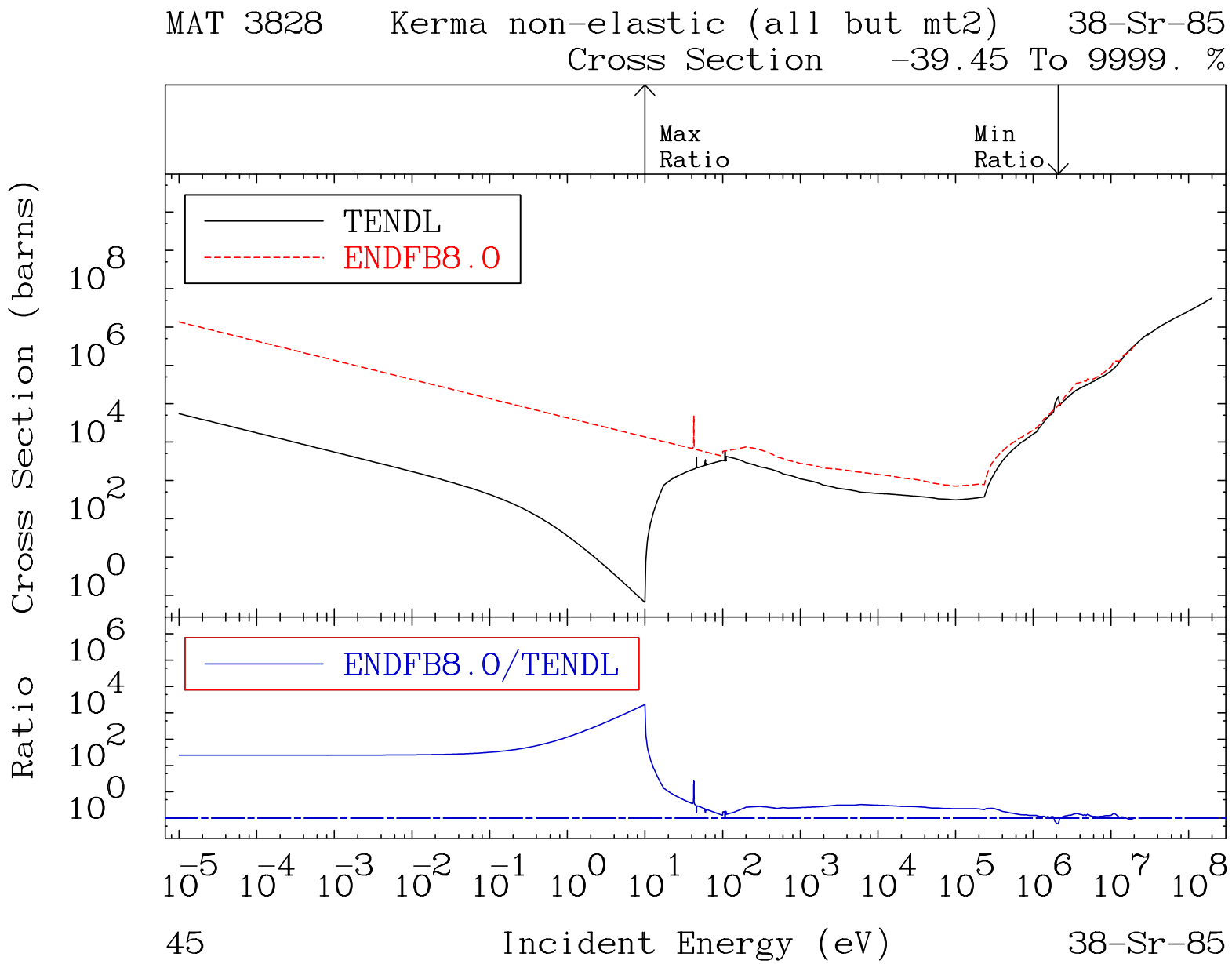

MAT 3828
Tritium Production
38-Sr-85
Cross Section
-84.72 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 9.0170 MeV
ENDFB8.0 Threshold 816.59 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
60
50
40
30
20
10
0
10^10
10^5
10^0
8
2
3
4
5
6
8
10^6
10^7
10^8
40
Incident Energy (eV)
38-Sr-85

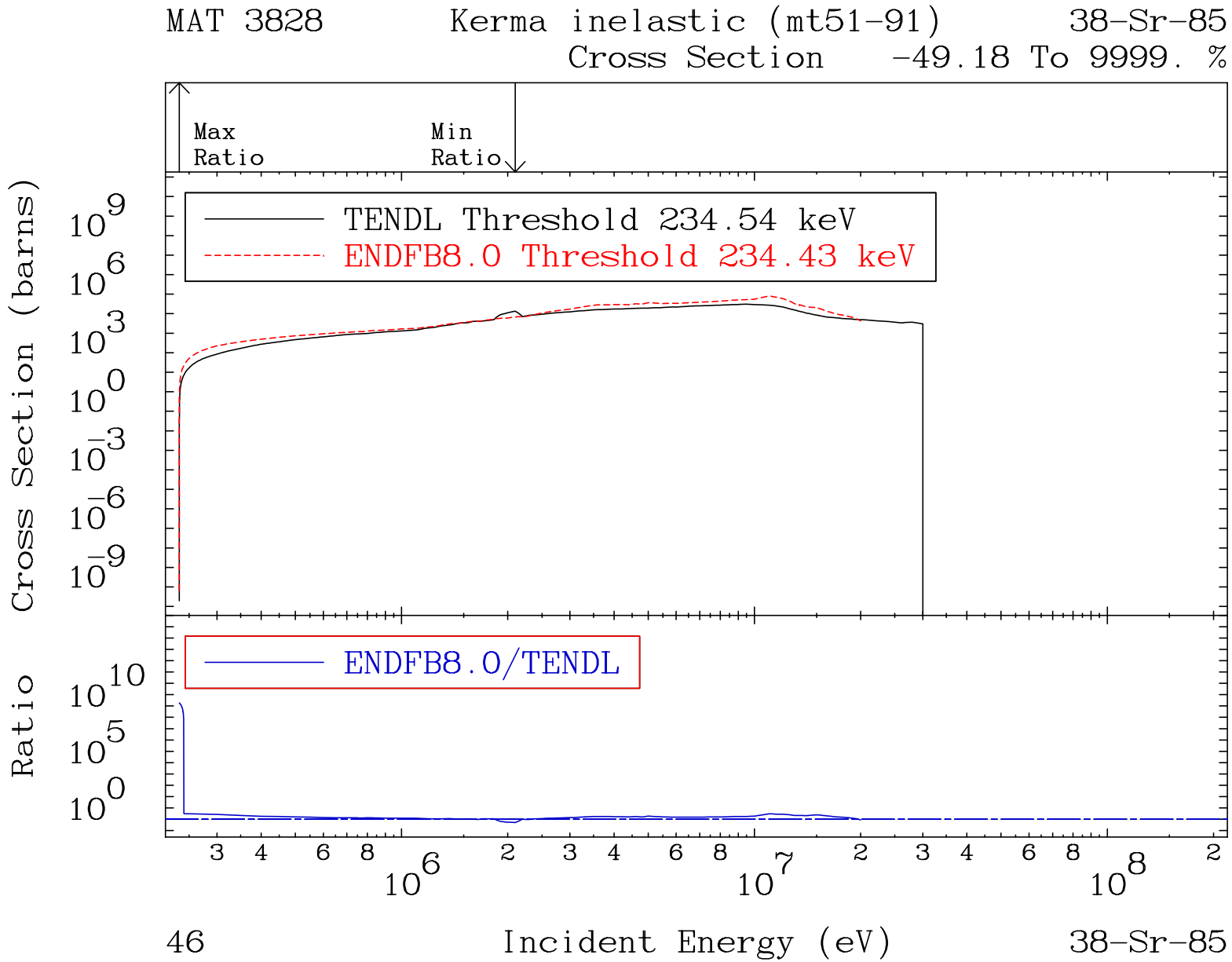

MAT 3828
He-3 Production
Cross Section
38-Sr-85
-68.01 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.0673 MeV
ENDFB8.0 Threshold 816.59 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^6
10^3
10^0
8
2
3
4
5
6
8
10^6
10^7
10^8
41
Incident Energy (eV)
38-Sr-85

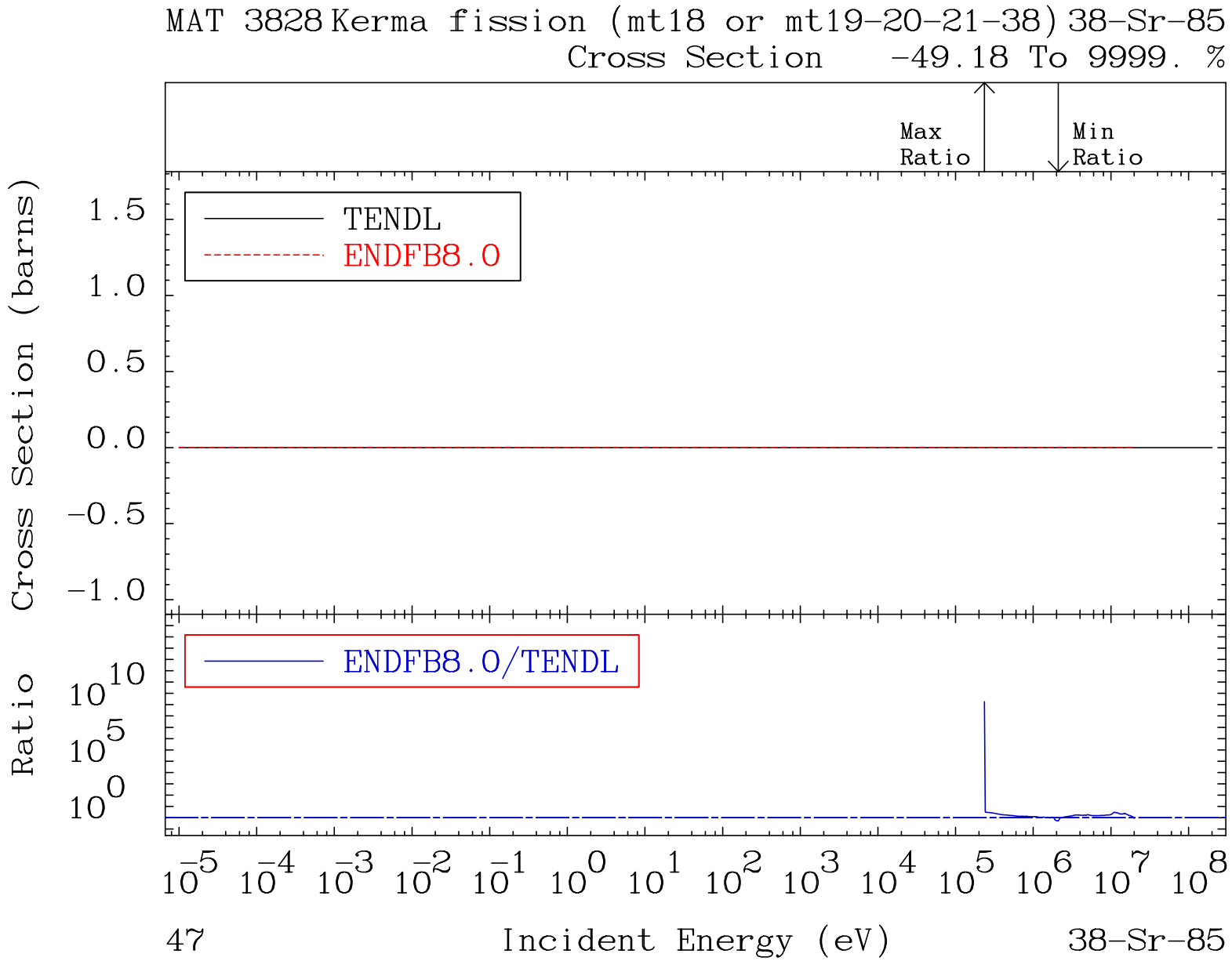

MAT 3828
He-4 Production
Cross Section
38-Sr-85
14.18 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
42
38-Sr-85

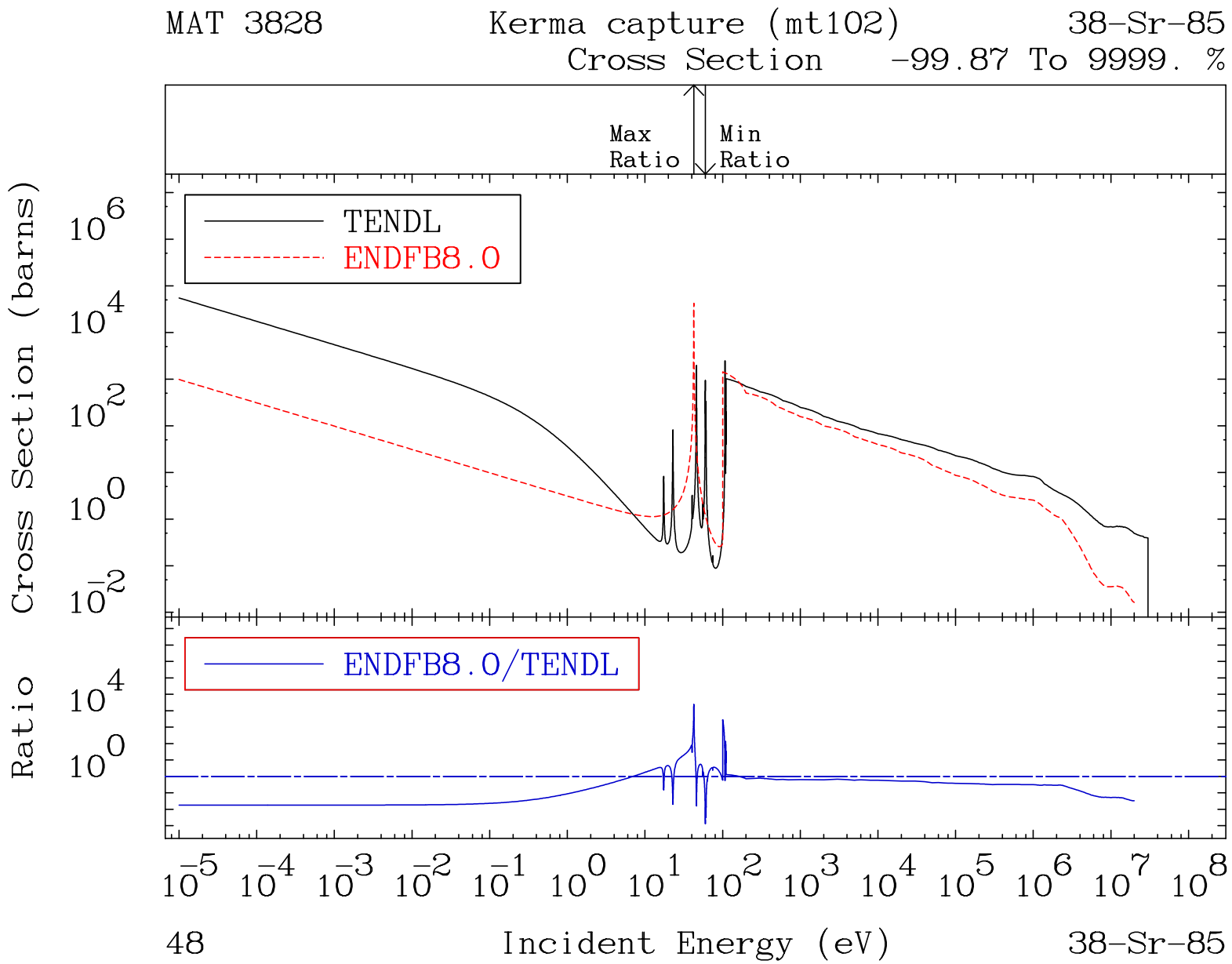

MAT 3828
Kerma total (eV-barns)
38-Sr-85
Cross Section -26.75 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
43
38-Sr-85

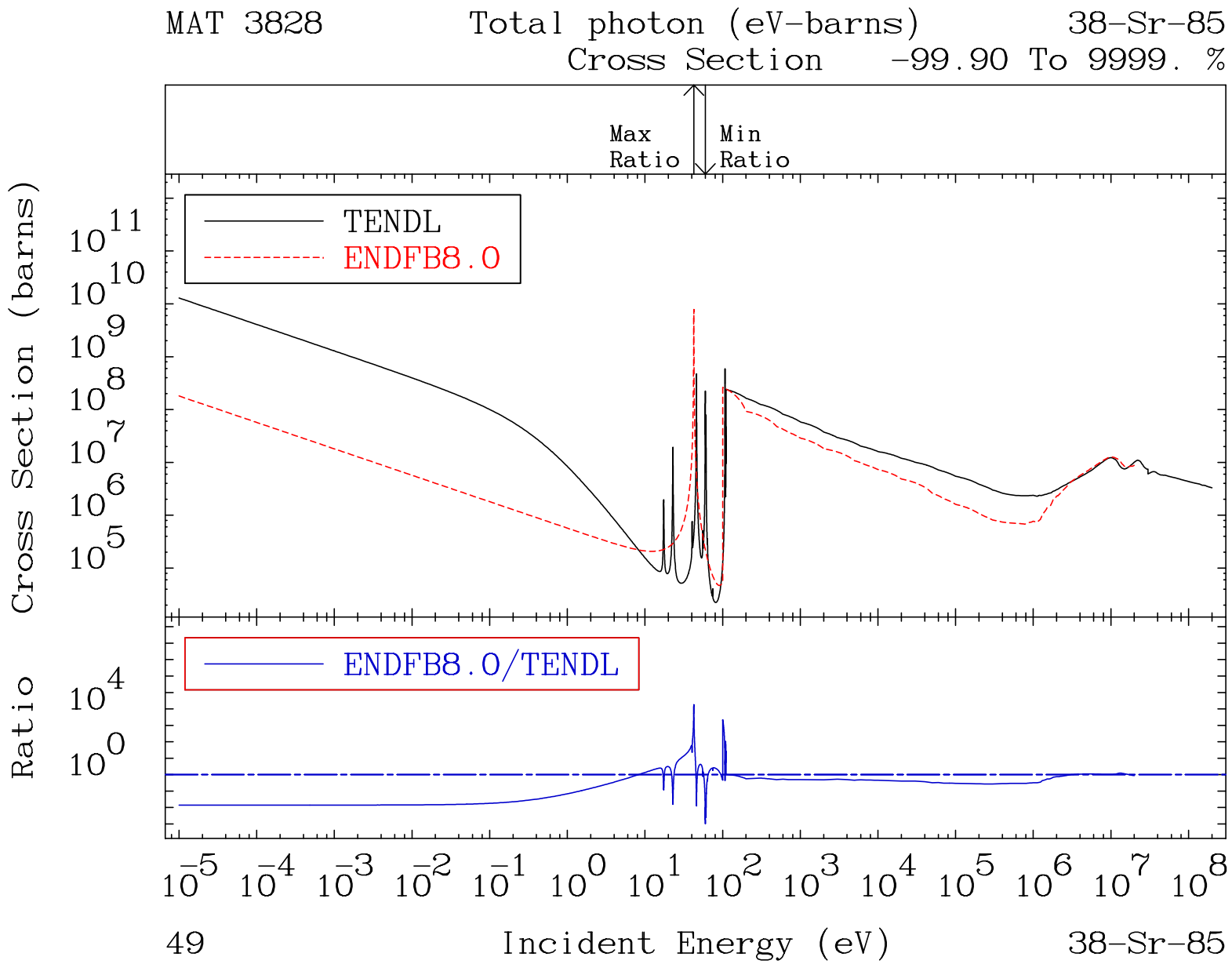

MAT 3828
Kerma elastic
Cross Section
38-Sr-85
-39.70 To 343.7 %
Min Ratio
Max Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
44
38-Sr-85

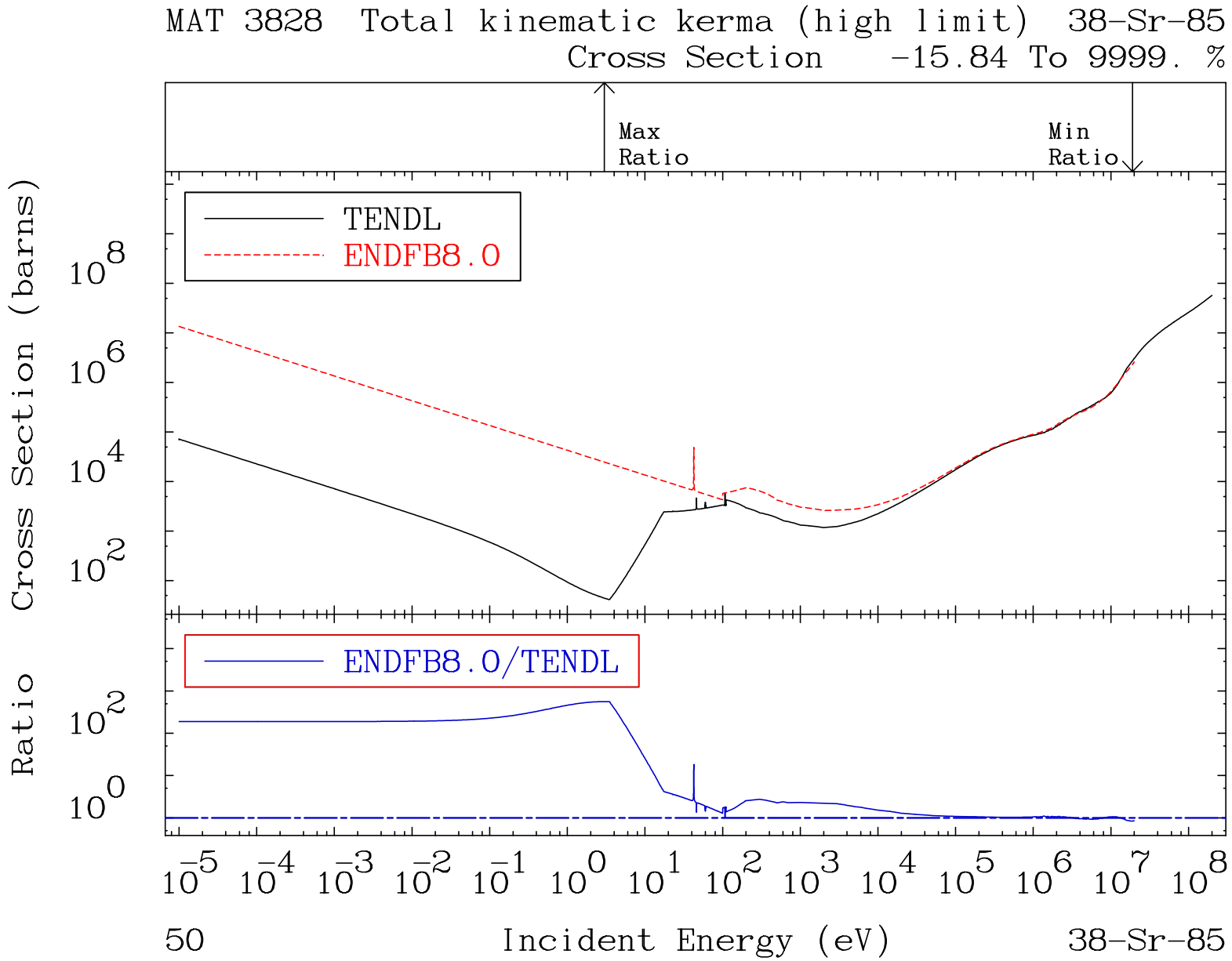

MAT 3828 Kerma non-elastic (all but mt2) 38-Sr-85
Cross Section -39.45 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
45
38-Sr-85

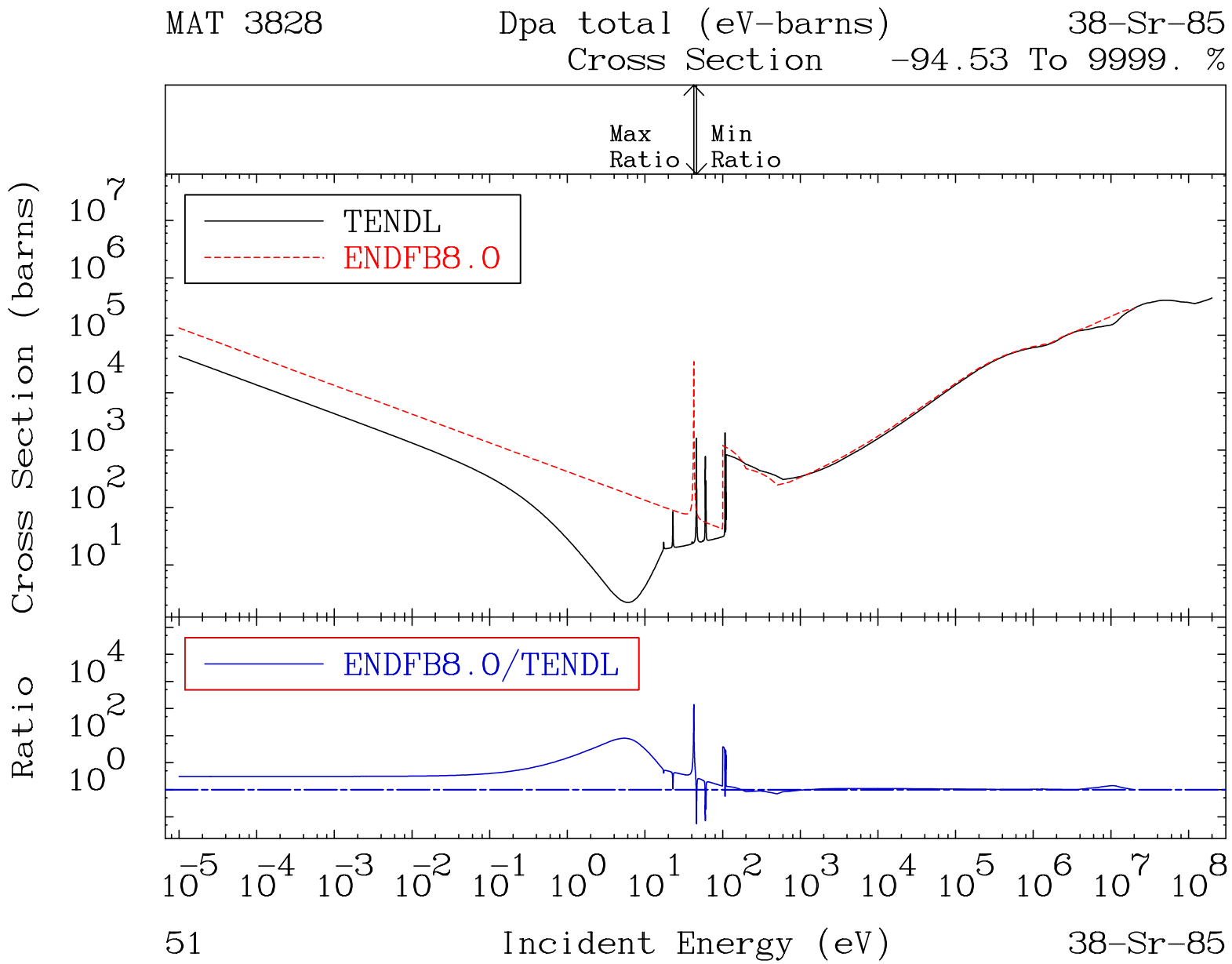

MAT 3828
Kerma inelastic (mt51-91)
38-Sr-85
Cross Section -49.18 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
ENDFB8.0 Threshold 234.43 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
46
38-Sr-85

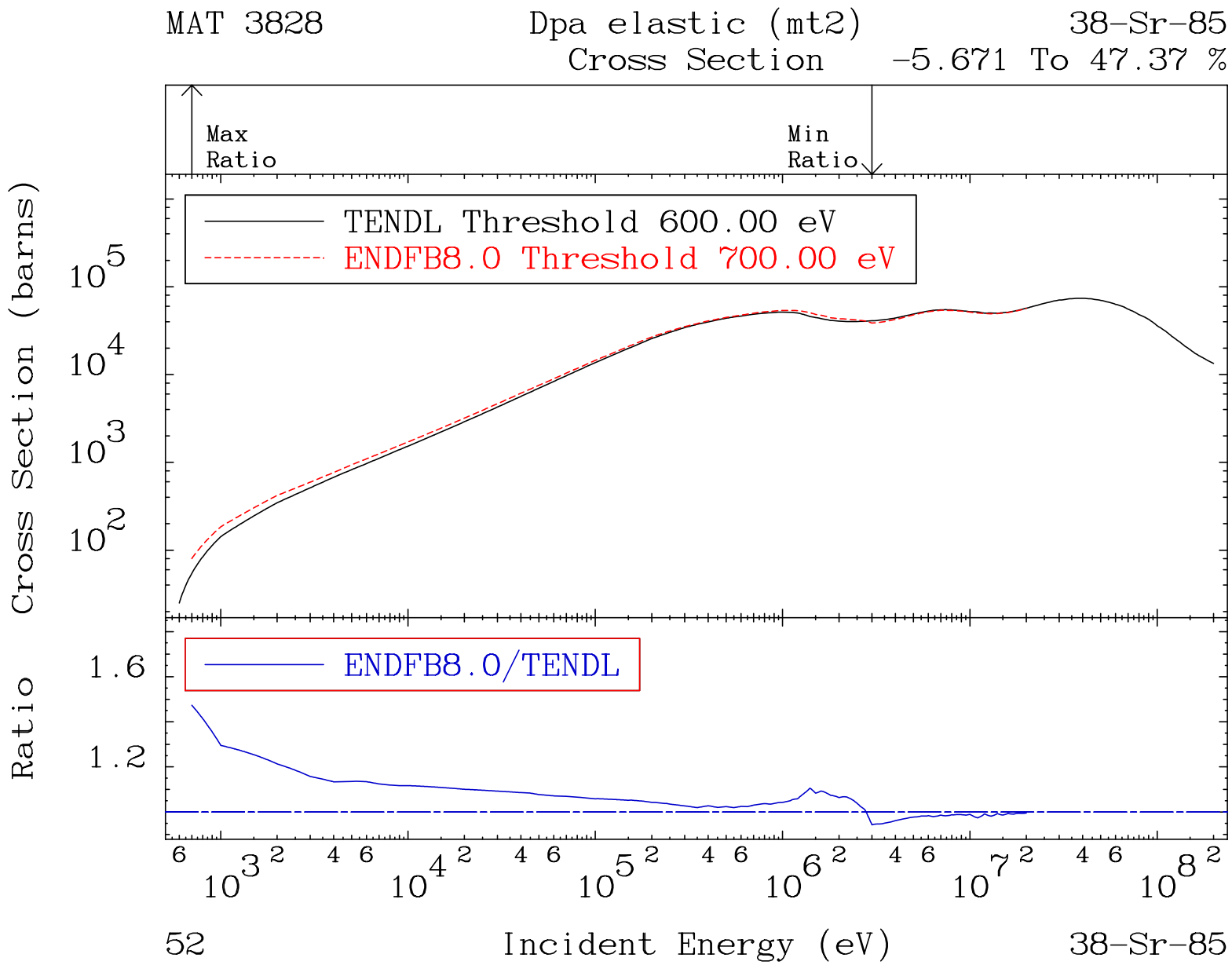

MAT 3828 Kerma fission (mt18 or mt19-20-21-38) 38-Sr-85
Cross Section -49.18 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
10^{10}
10^{5}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
47
Incident Energy (eV)
38-Sr-85

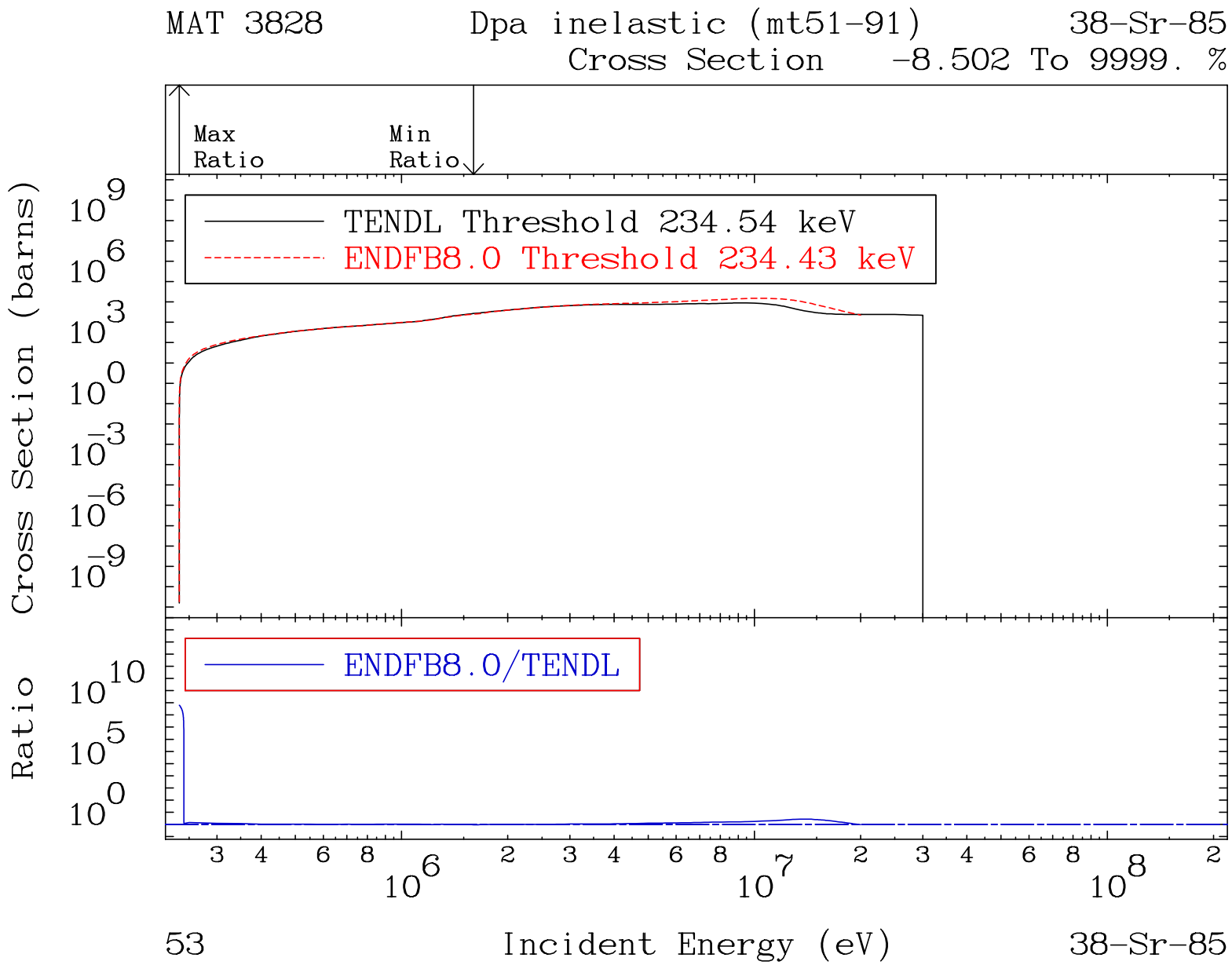

MAT 3828
Kerma capture (mt102)
38-Sr-85
Cross Section -99.87 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
48
38-Sr-85

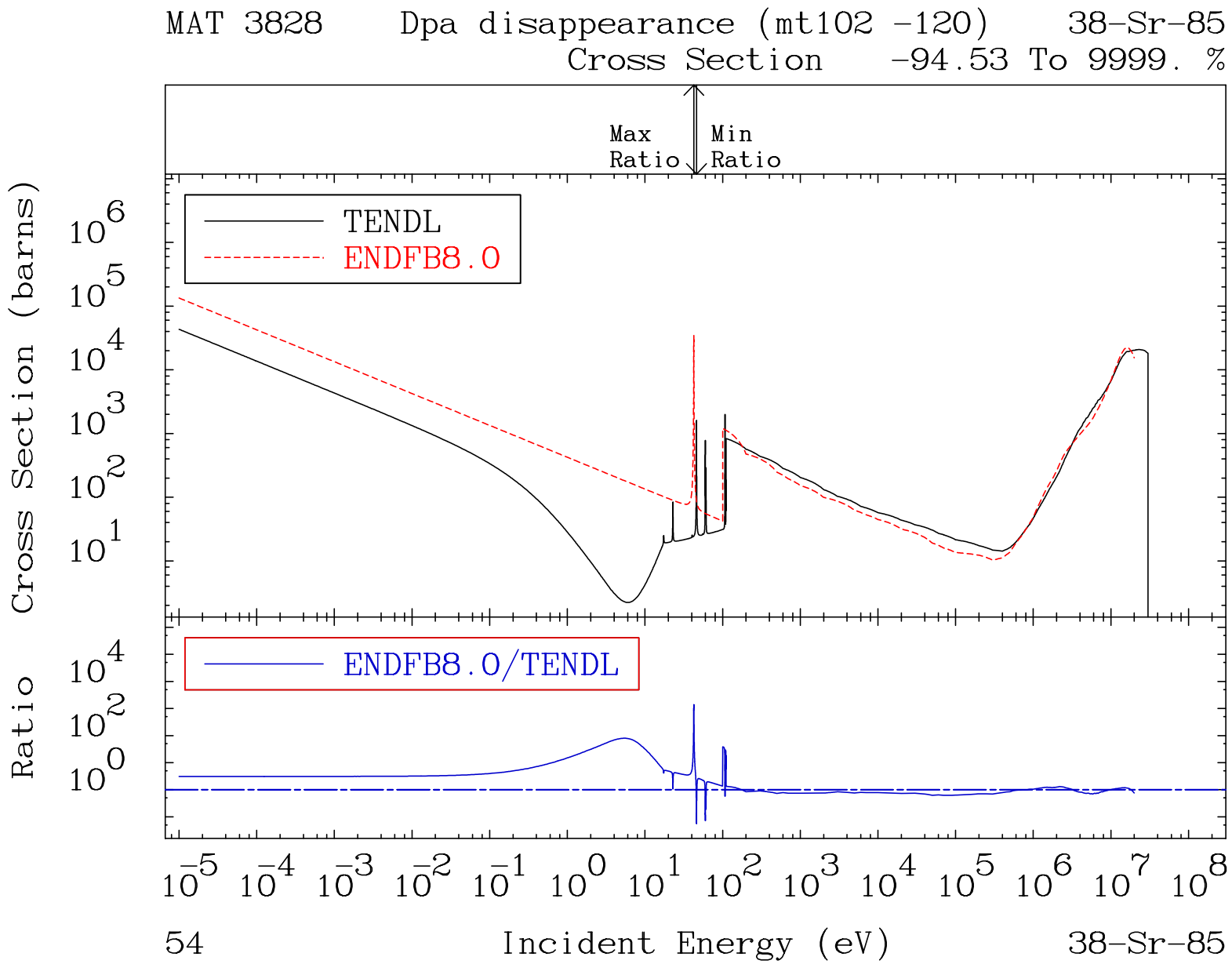

MAT 3828
Total photon (eV-barns)
38-Sr-85
Cross Section -99.90 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
49
38-Sr-85

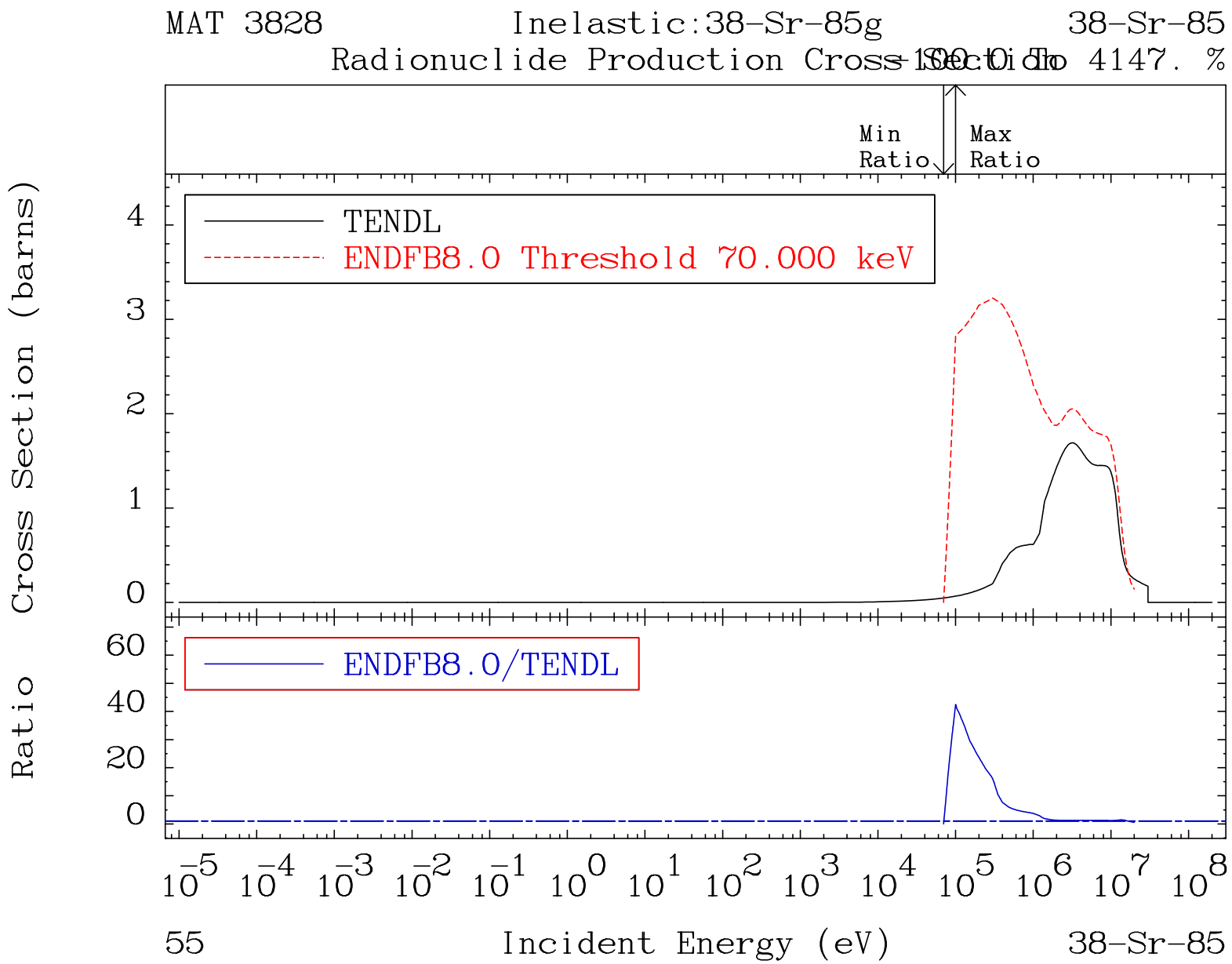

MAT 3828 Total kinematic kerma (high limit) 38-Sr-85
Cross Section -15.84 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
10^{8}
10^{6}
10^{4}
10^{2}
ENDFB8.0/TENDL
Ratio
10^{2}
10^{0}
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
50
Incident Energy (eV)
38-Sr-85

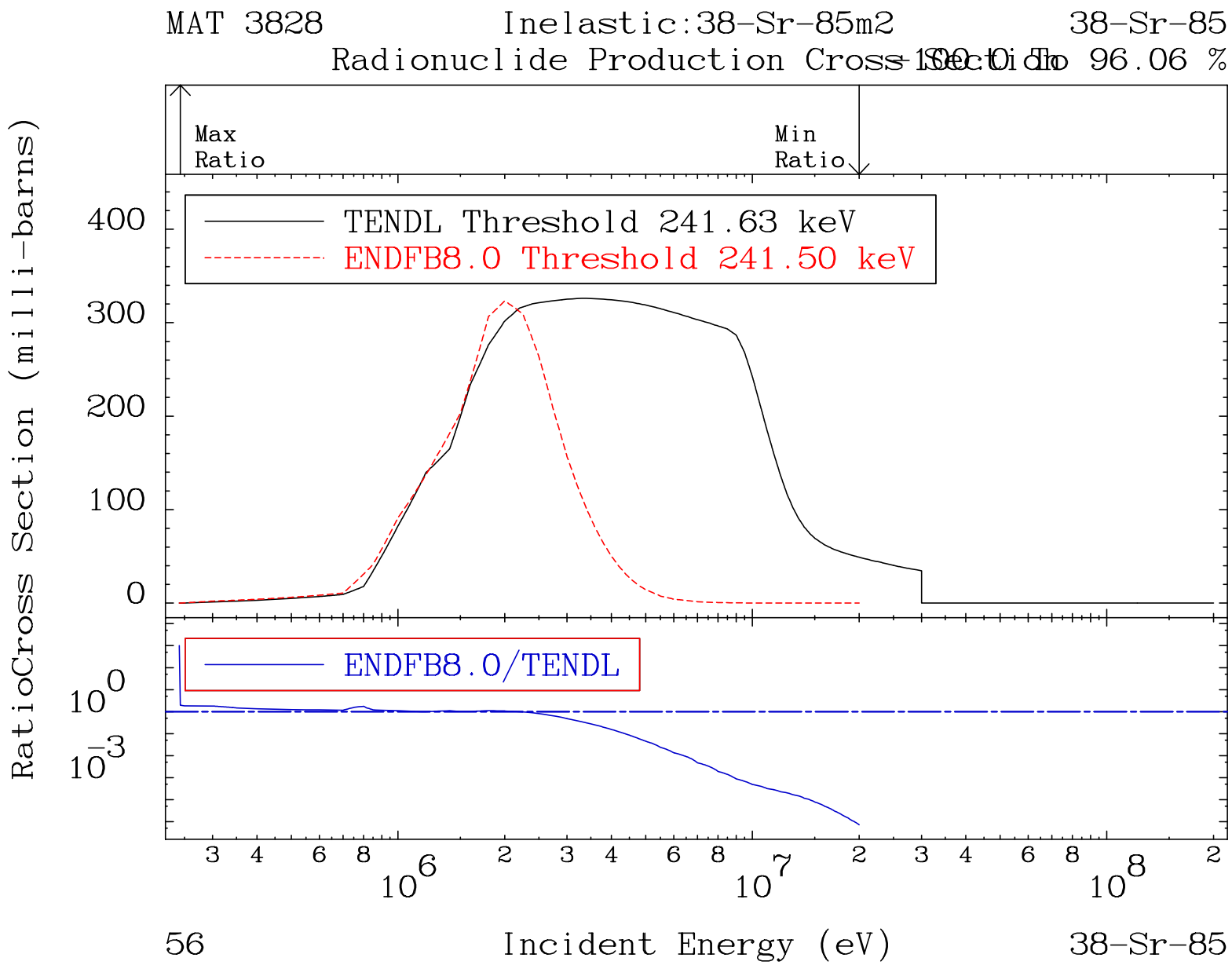

MAT 3828
Dpa total (eV-barns)
38-Sr-85
Cross Section -94.53 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
51
38-Sr-85


MAT 3828
Dpa elastic (mt2)
Cross Section
38-Sr-85
-5.671 To 47.37 %
Max
Ratio
Min
Ratio
TENDL Threshold 600.00 eV
ENDFB8.0 Threshold 700.00 eV
Cross Section (barns)
10^5
10^4
10^3
10^2
ENDFB8.0/TENDL
Ratio
1.6
1.2
6
10^3 2 4 6
10^4 2 4 6
10^5 2 4 6
10^6 2 4 6
10^7 2 4 6
10^8 2
52
Incident Energy (eV)
38-Sr-85


MAT 3828
Dpa inelastic (mt51-91)
38-Sr-85
Cross Section -8.502 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 234.54 keV
ENDFB8.0 Threshold 234.43 keV
Cross Section (barns)
ENDFB8.0/TENDL
Ratio
Incident Energy (eV)
53
38-Sr-85


MAT 3828 Dpa disappearance (mt102 -120) 38-Sr-85
Cross Section -94.53 To 9999. %
Max Ratio
Min Ratio
TENDL
ENDFB8.0
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
54
38-Sr-85


MAT 3828
Inelastic:38-Sr-85g
38-Sr-85
Radionuclide Production Cross Section
Min Ratio
Max Ratio
TENDL
ENDFB8.0 Threshold 70.000 keV
ENDFB8.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
55
38-Sr-85


MAT 3828
Inelastic:38-Sr-85m2
38-Sr-85
Radionuclide Production Cross Section To 96.06 %
Max Ratio
Min Ratio
TENDL Threshold 241.63 keV
ENDFB8.0 Threshold 241.50 keV
ENDFB8.0/TENDL
RatioCross Section (milli-barns)
400
300
200
100
0
10^{0}
10^{-3}
3 4 6 8 10^{6} 2 3 4 6 8 10^{7} 2 3 4 6 8 10^{8} 2
56
Incident Energy (eV)
38-Sr-85