Program Complot
(Version 2018-1)
by
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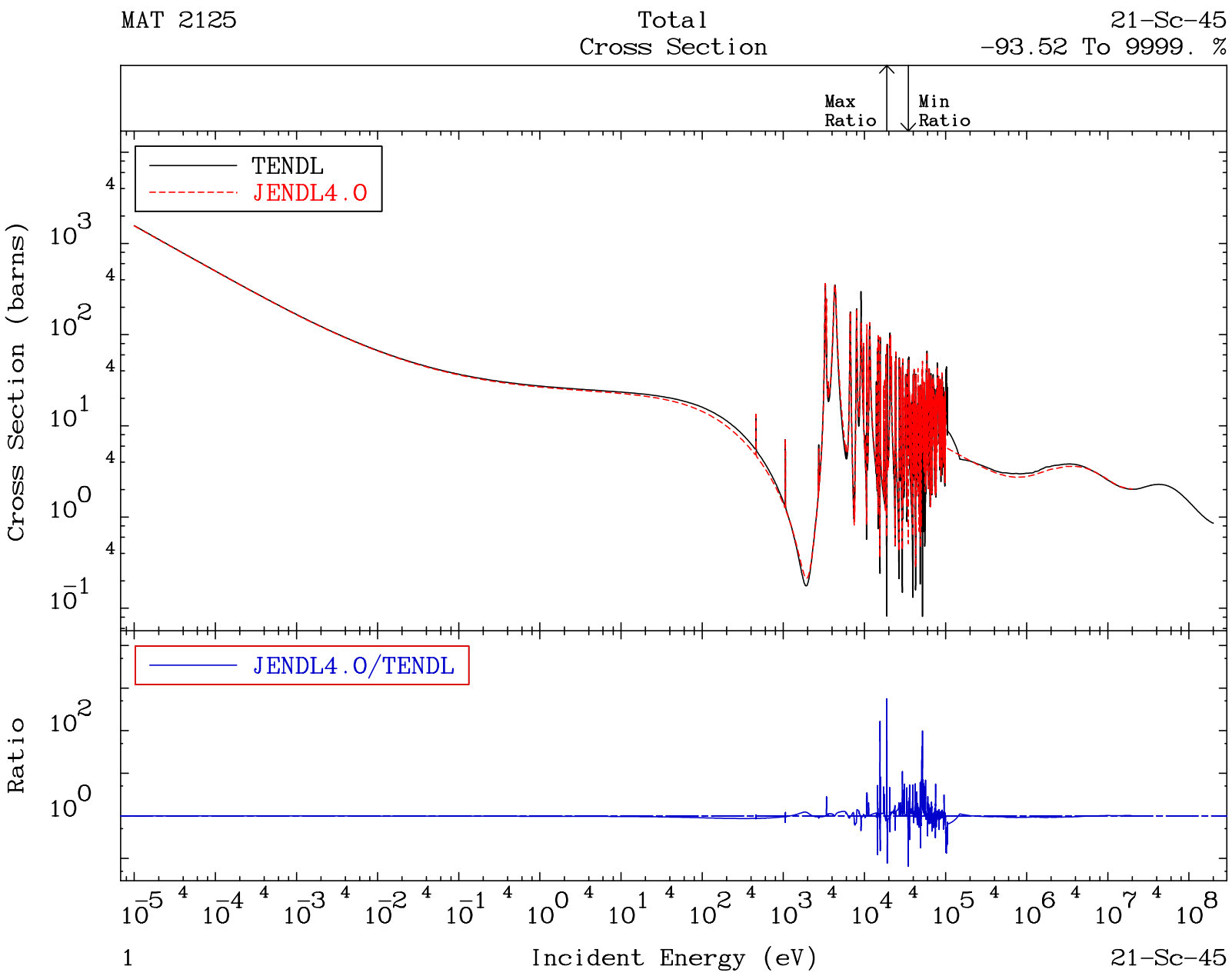
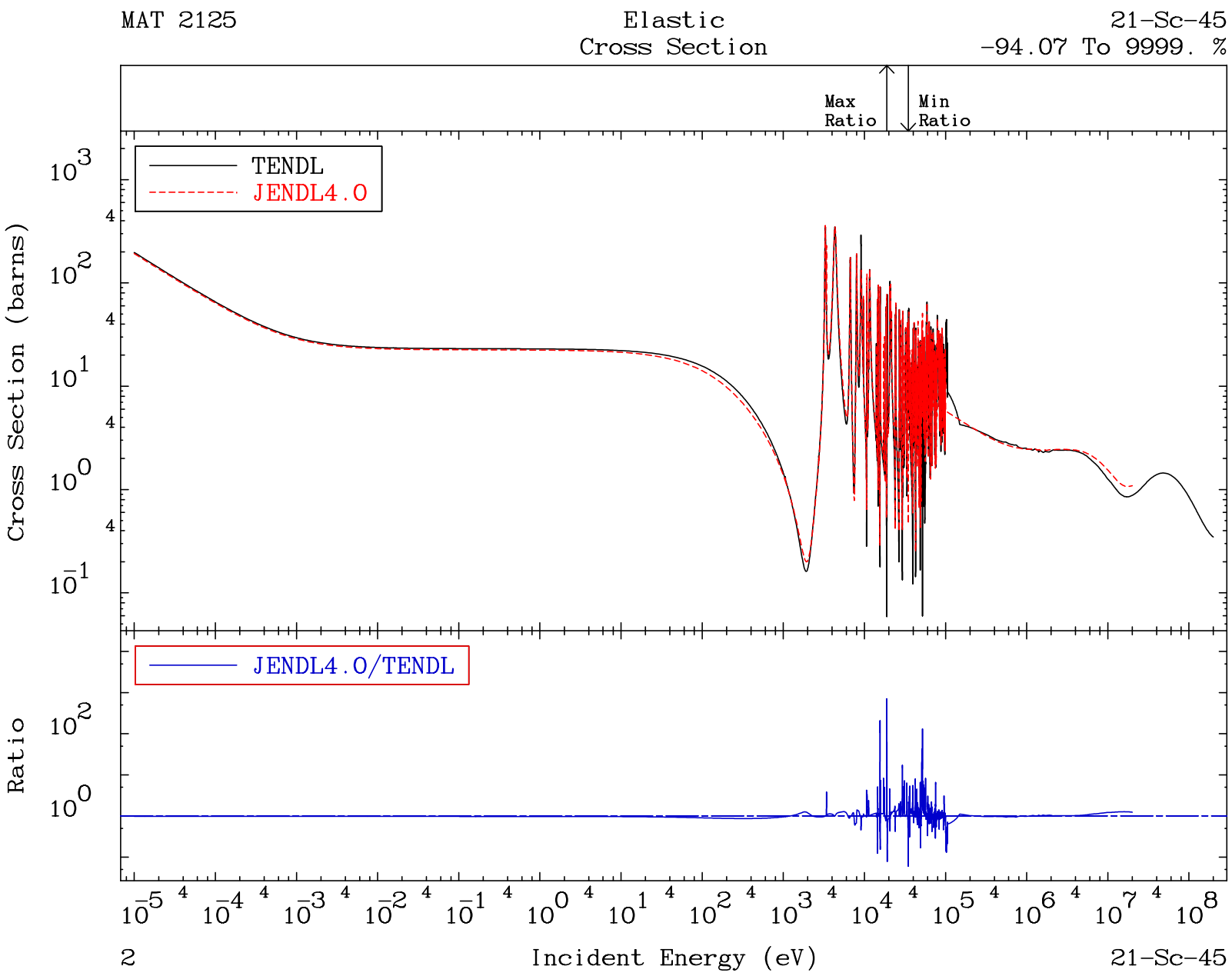
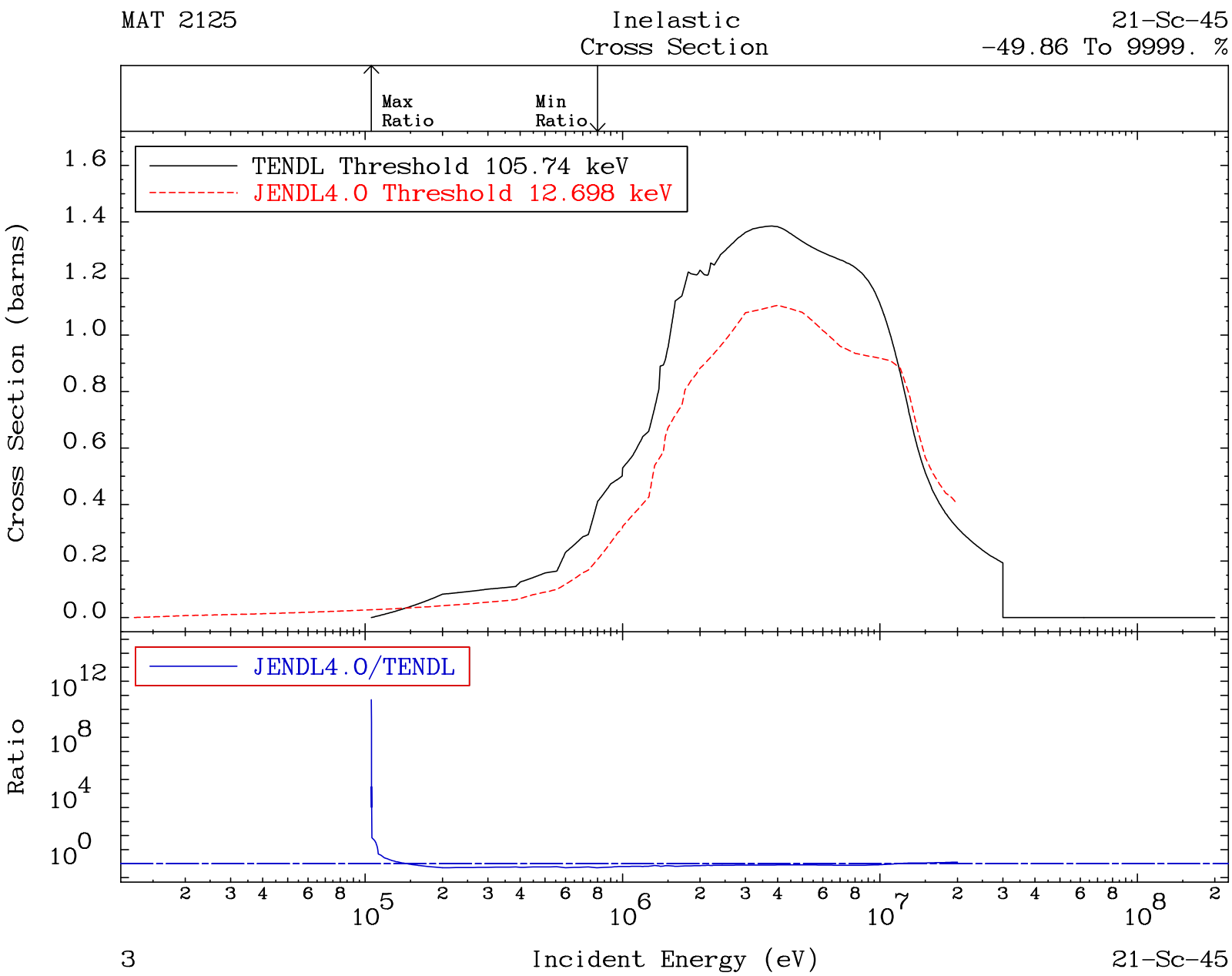
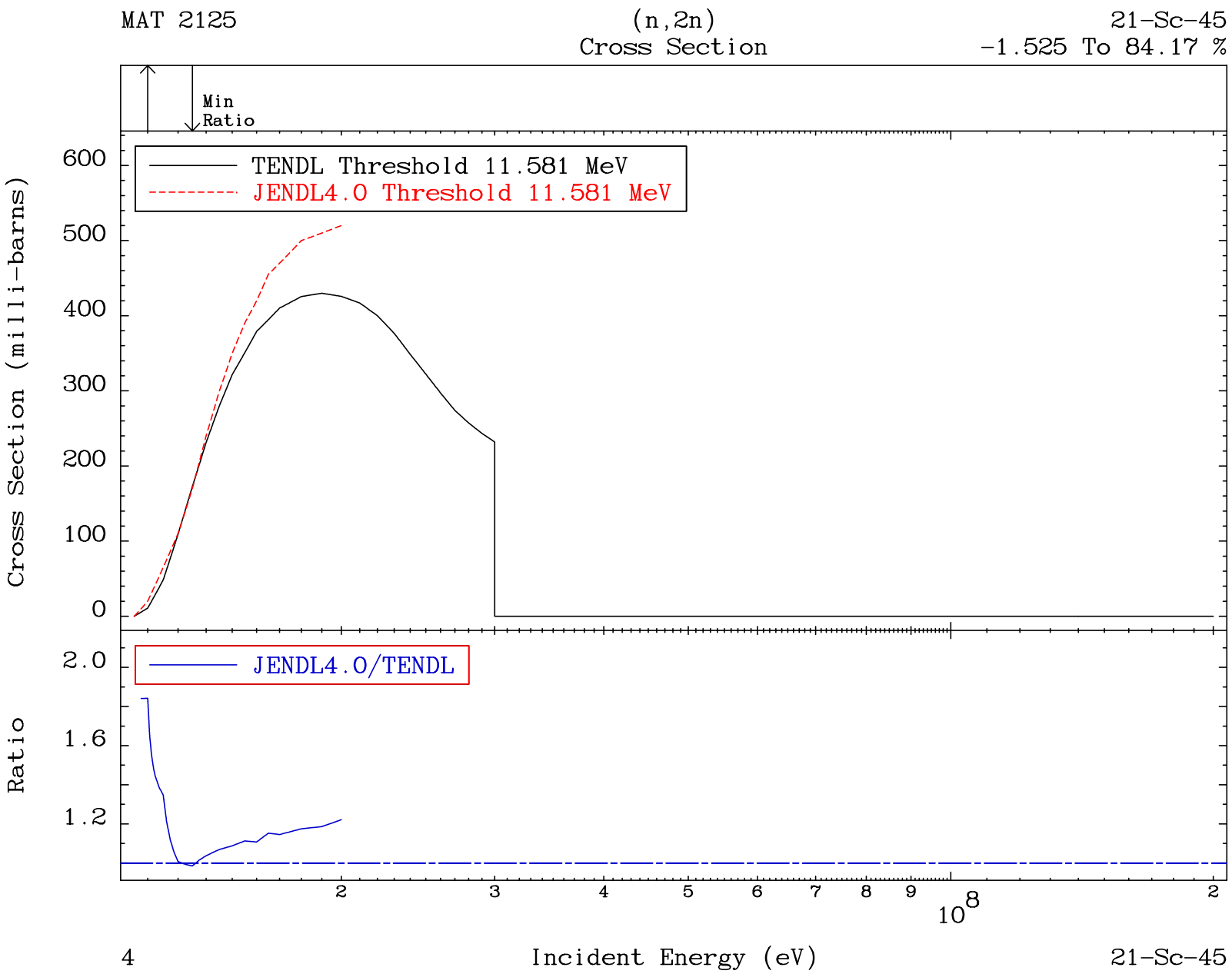
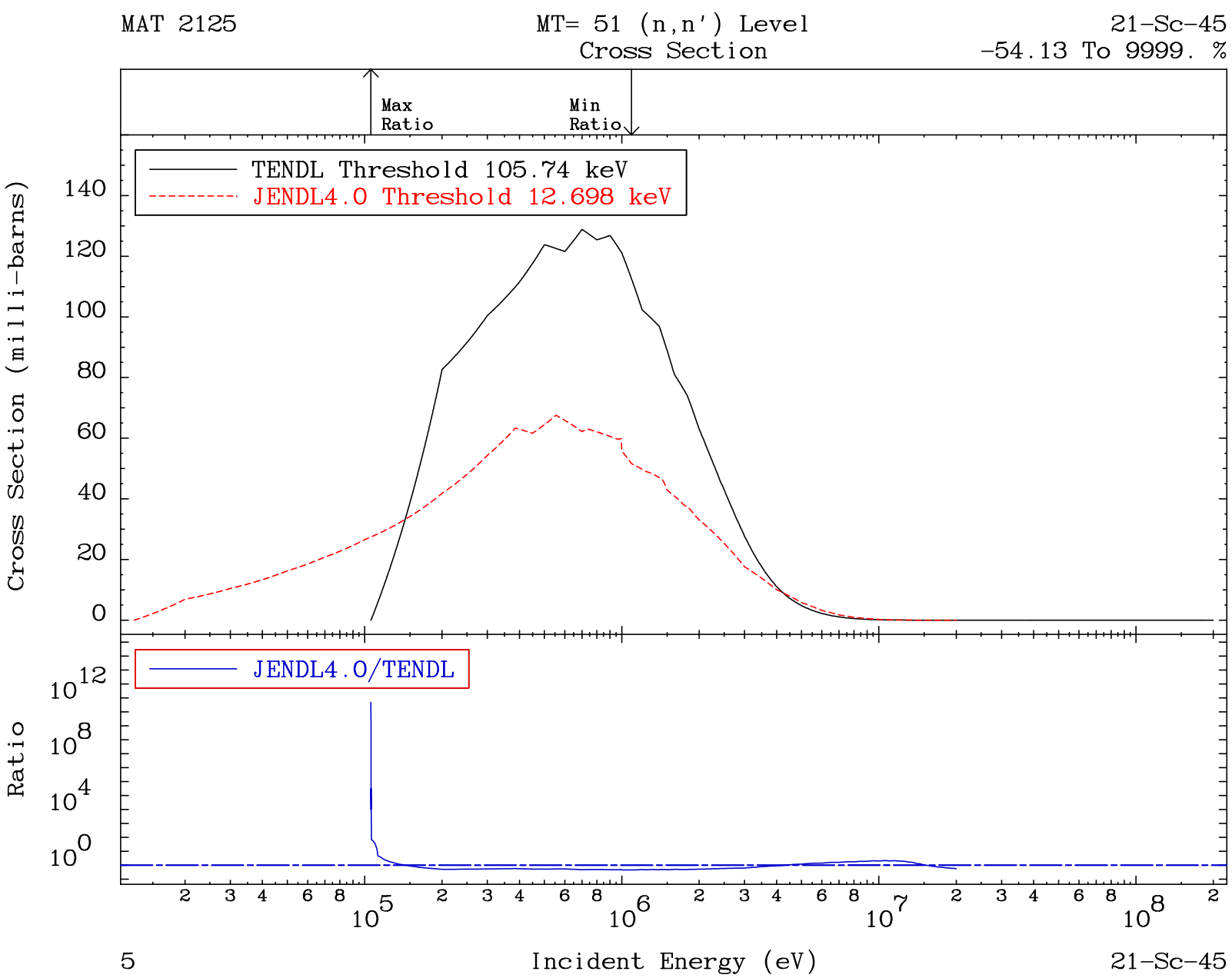
Press Mouse Button to Start

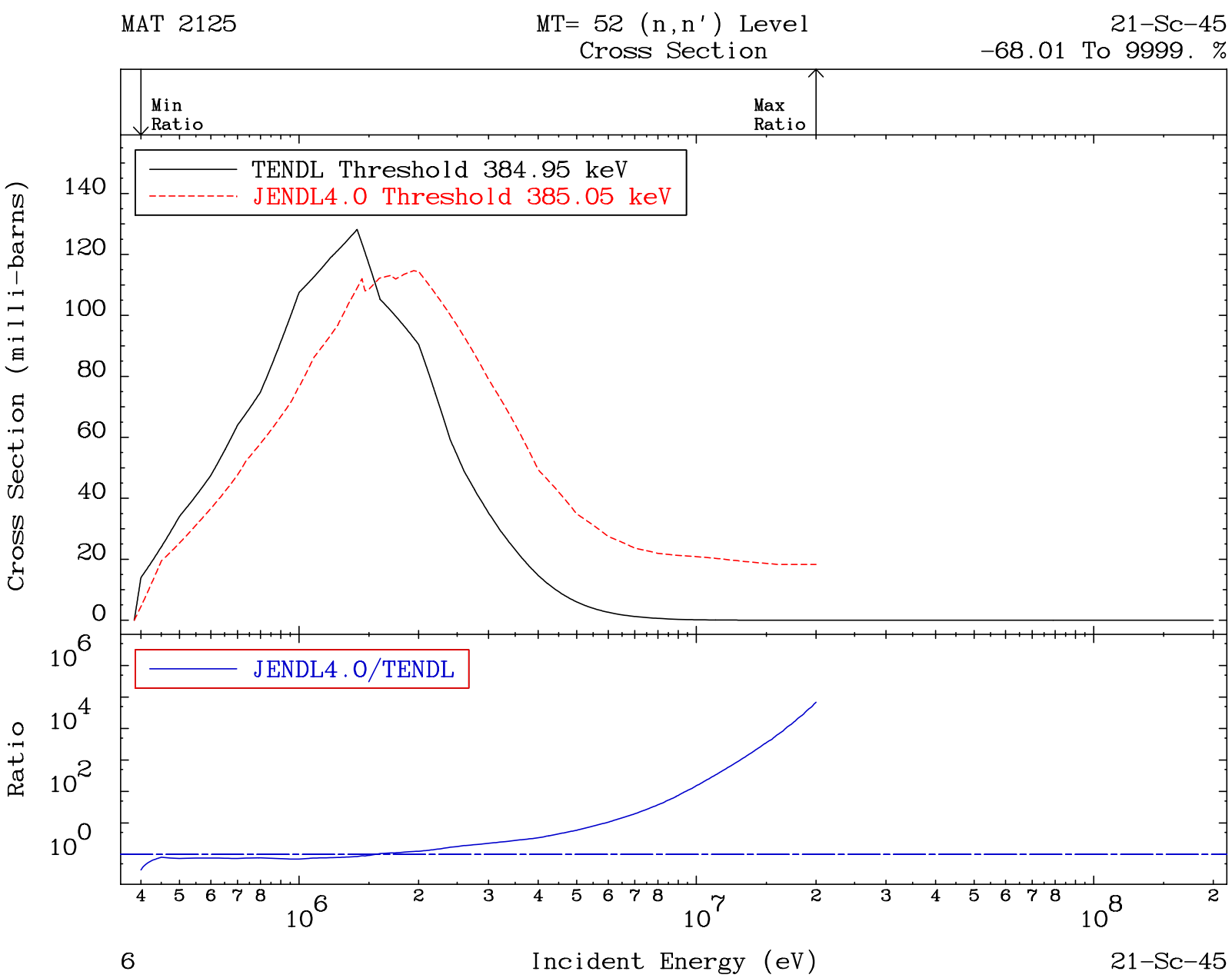

MAT 2125
Total
Cross Section
21-Sc-45
-93.52 To 9999. %
Max
Ratio
Min
Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
1
21-Sc-45

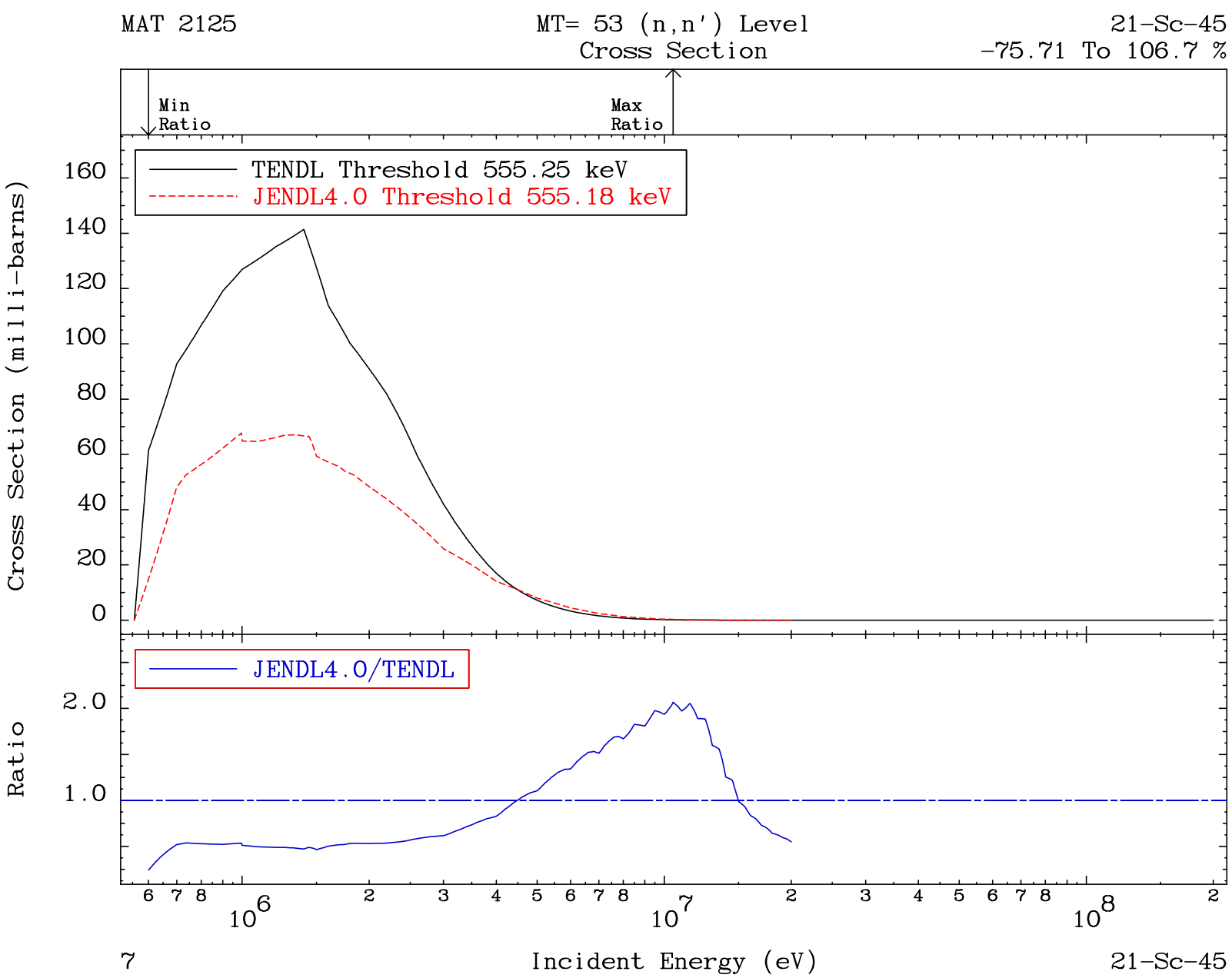

MAT 2125
Elastic
Cross Section
21-Sc-45
-94.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
2
21-Sc-45

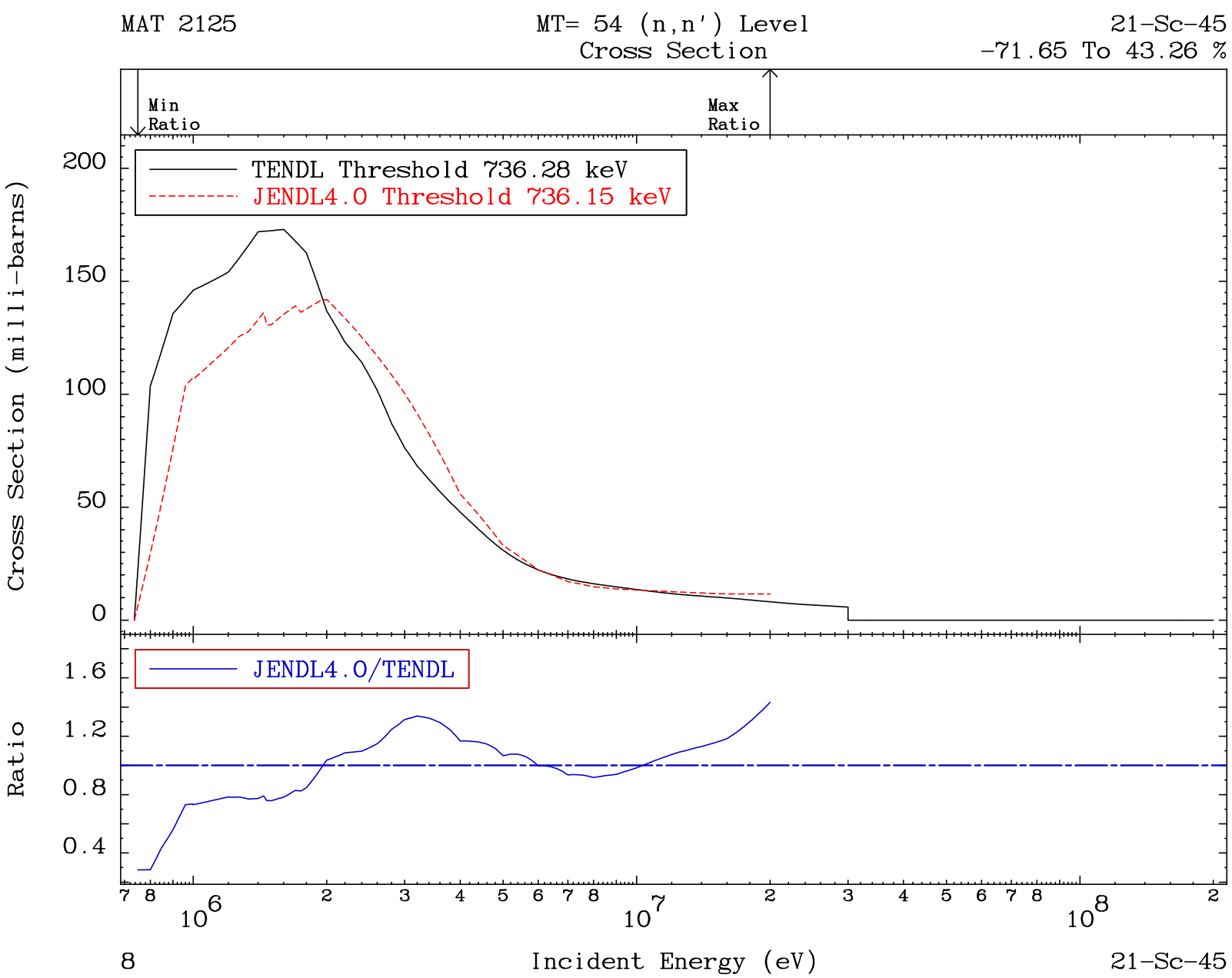

MAT 2125
Inelastic
Cross Section
21-Sc-45
-49.86 To 9999. %
Max
Ratio
Min
Ratio
TENDL Threshold 105.74 keV
JENDL4.0 Threshold 12.698 keV
Cross Section (barns)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^{12}
10^{8}
10^{4}
10^{0}
2 3 4 6 8
10^{5}
10^{6}
10^{7}
10^{8}
3
Incident Energy (eV)
21-Sc-45

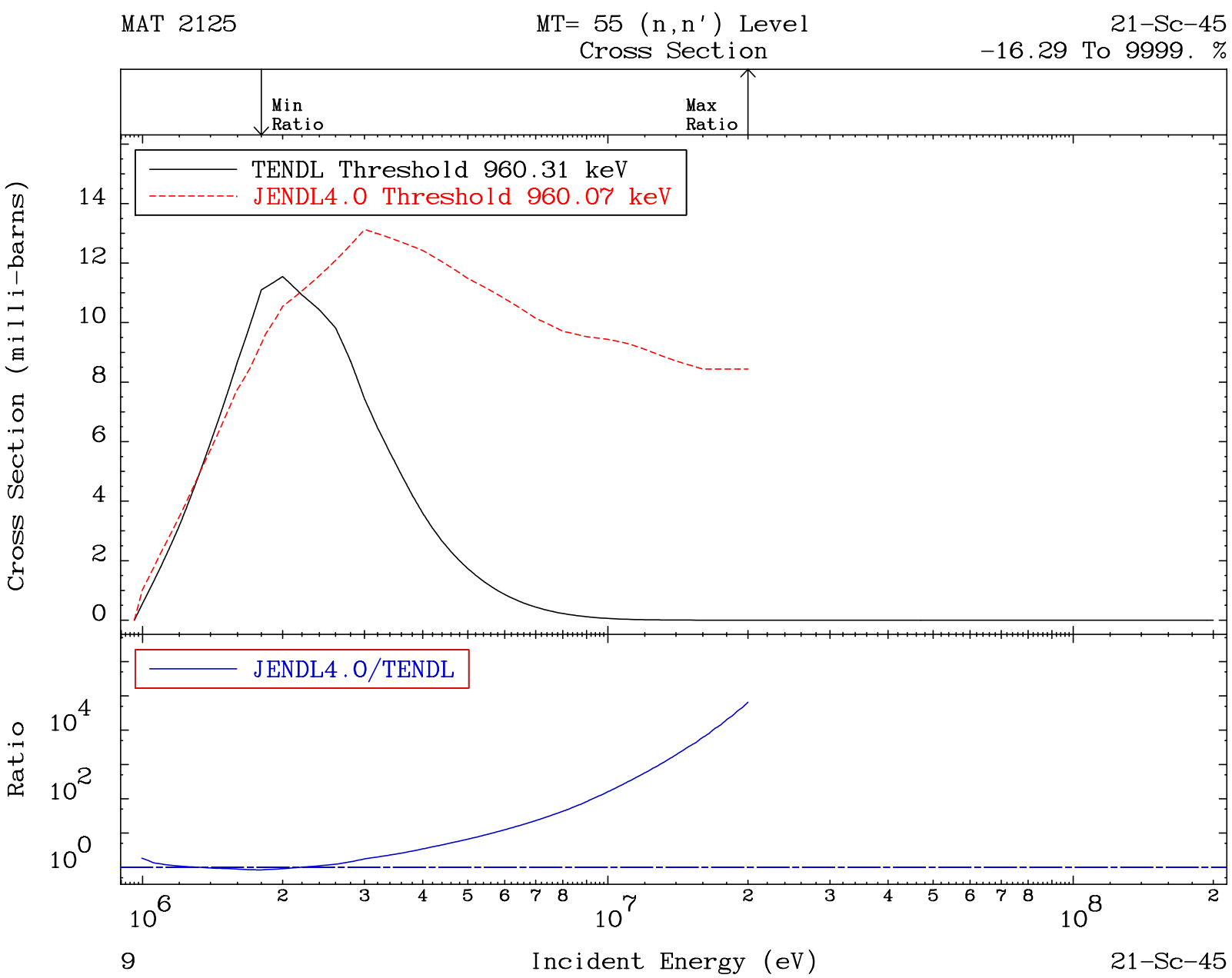

MAT 2125
(n,2n)
Cross Section
21-Sc-45
-1.525 To 84.17 %
Min
Ratio
TENDL Threshold 11.581 MeV
JENDL4.0 Threshold 11.581 MeV
Cross Section (milli-barns)
600
500
400
300
200
100
0
JENDL4.0/TENDL
Ratio
2.0
1.6
1.2
2
3
4
5
6
7
8
9
10^8
2
4
Incident Energy (eV)
21-Sc-45

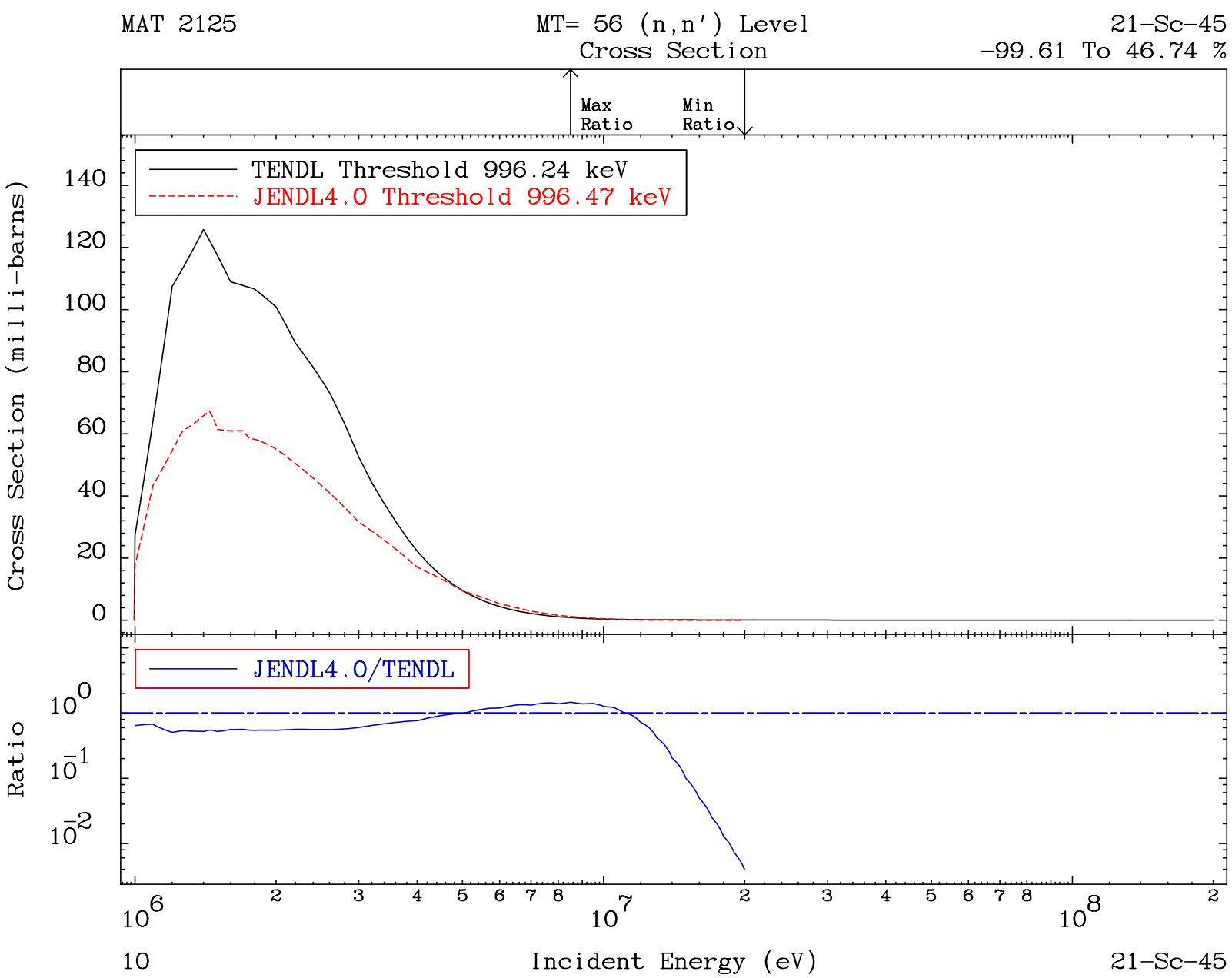

MAT 2125
MT= 51 (n,n') Level
Cross Section
21-Sc-45
-54.13 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 105.74 keV
JENDL4.0 Threshold 12.698 keV
Cross Section (milli-barns)
0
20
40
60
80
100
120
140
JENDL4.0/TENDL
Ratio
10^{0}
10^{4}
10^{8}
10^{12}
10^{5}
10^{6}
10^{7}
10^{8}
Incident Energy (eV)
5
21-Sc-45

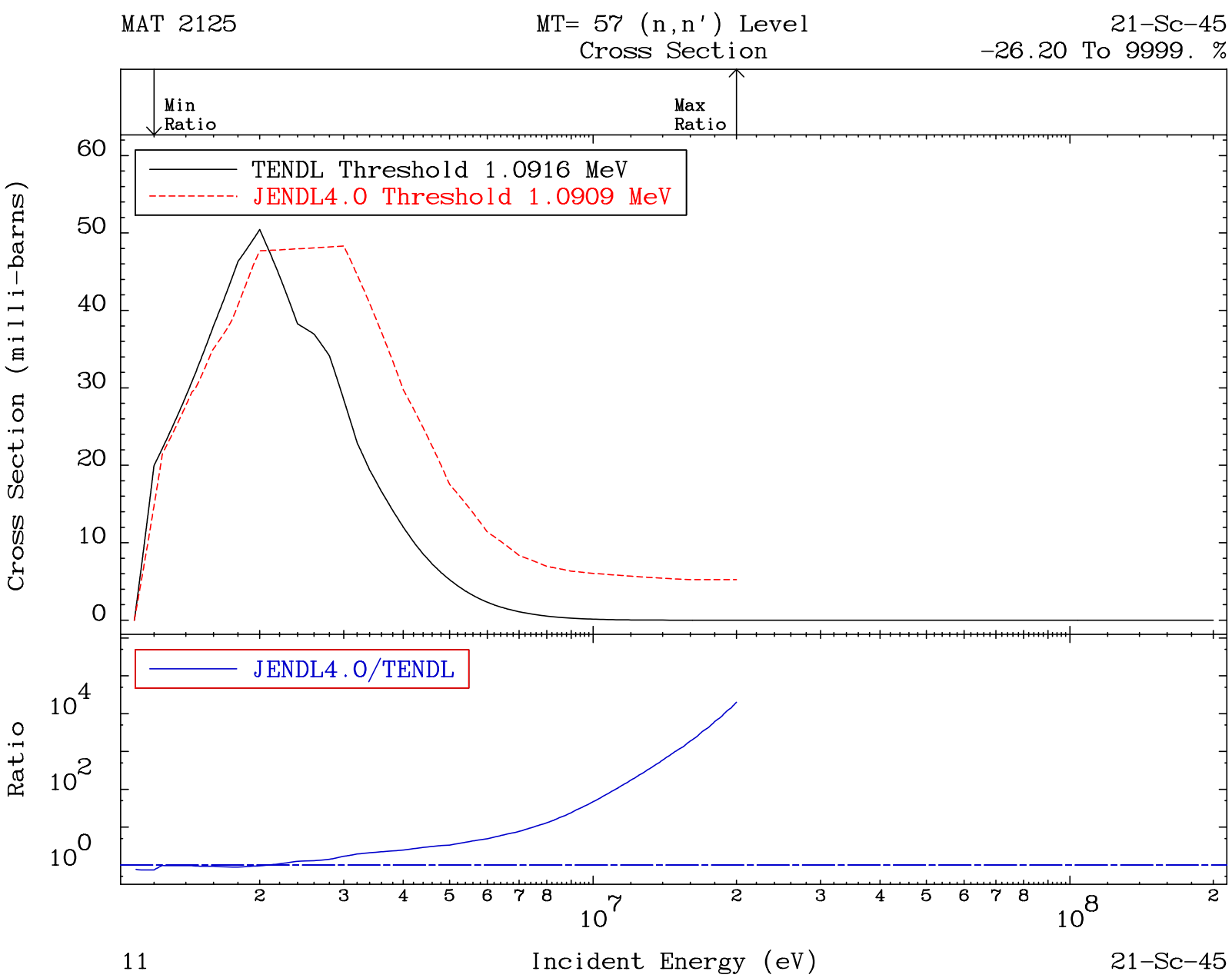

MAT 2125
MT= 52 (n,n') Level
Cross Section
21-Sc-45
-68.01 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 384.95 keV
JENDL4.0 Threshold 385.05 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^6
10^4
10^2
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
6
Incident Energy (eV)
21-Sc-45

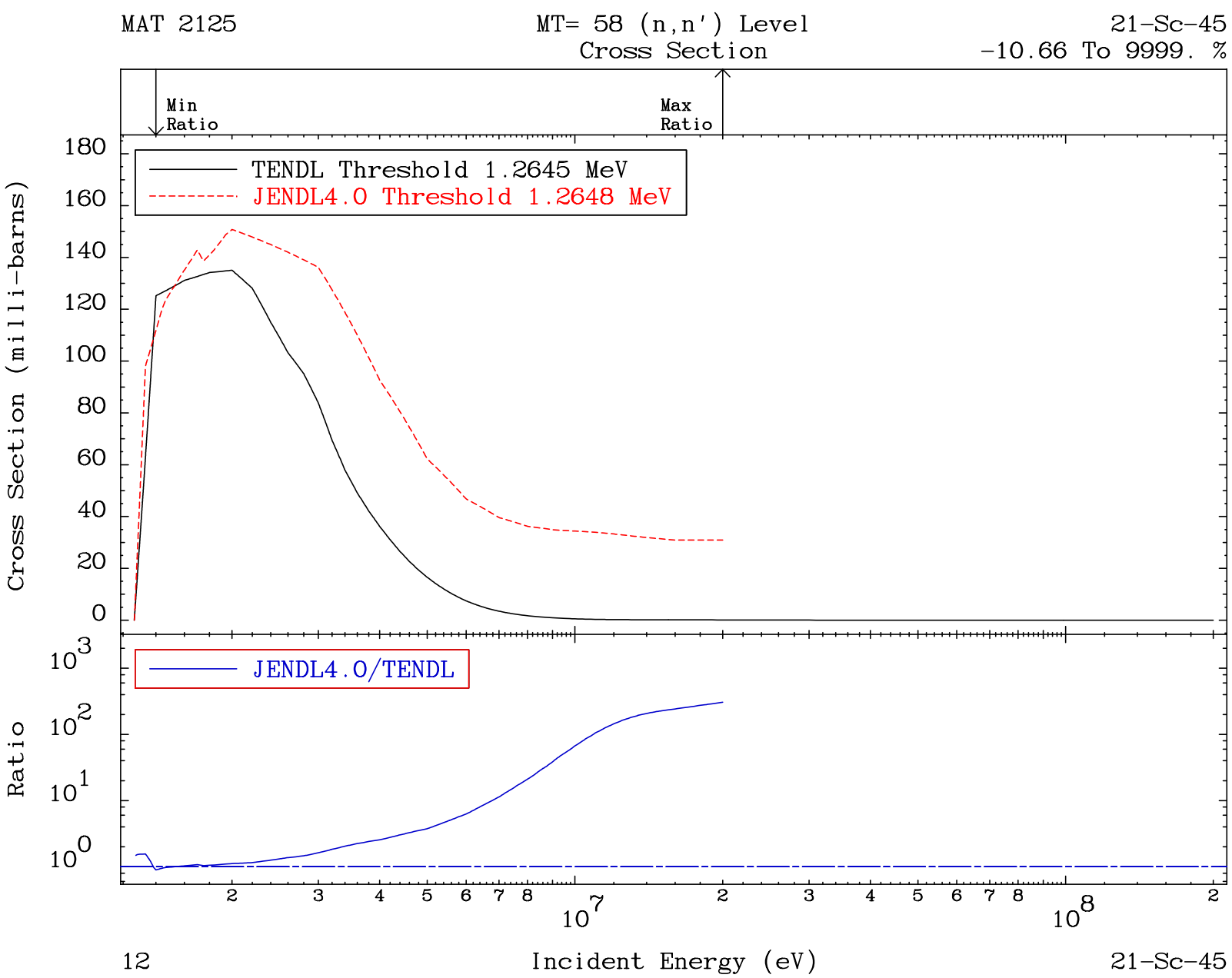

MAT 2125
MT= 53 (n,n') Level
Cross Section
21-Sc-45
-75.71 To 106.7 %
Min
Ratio
Max
Ratio
TENDL Threshold 555.25 keV
JENDL4.0 Threshold 555.18 keV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
2.0
1.0
6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
7
Incident Energy (eV)
21-Sc-45

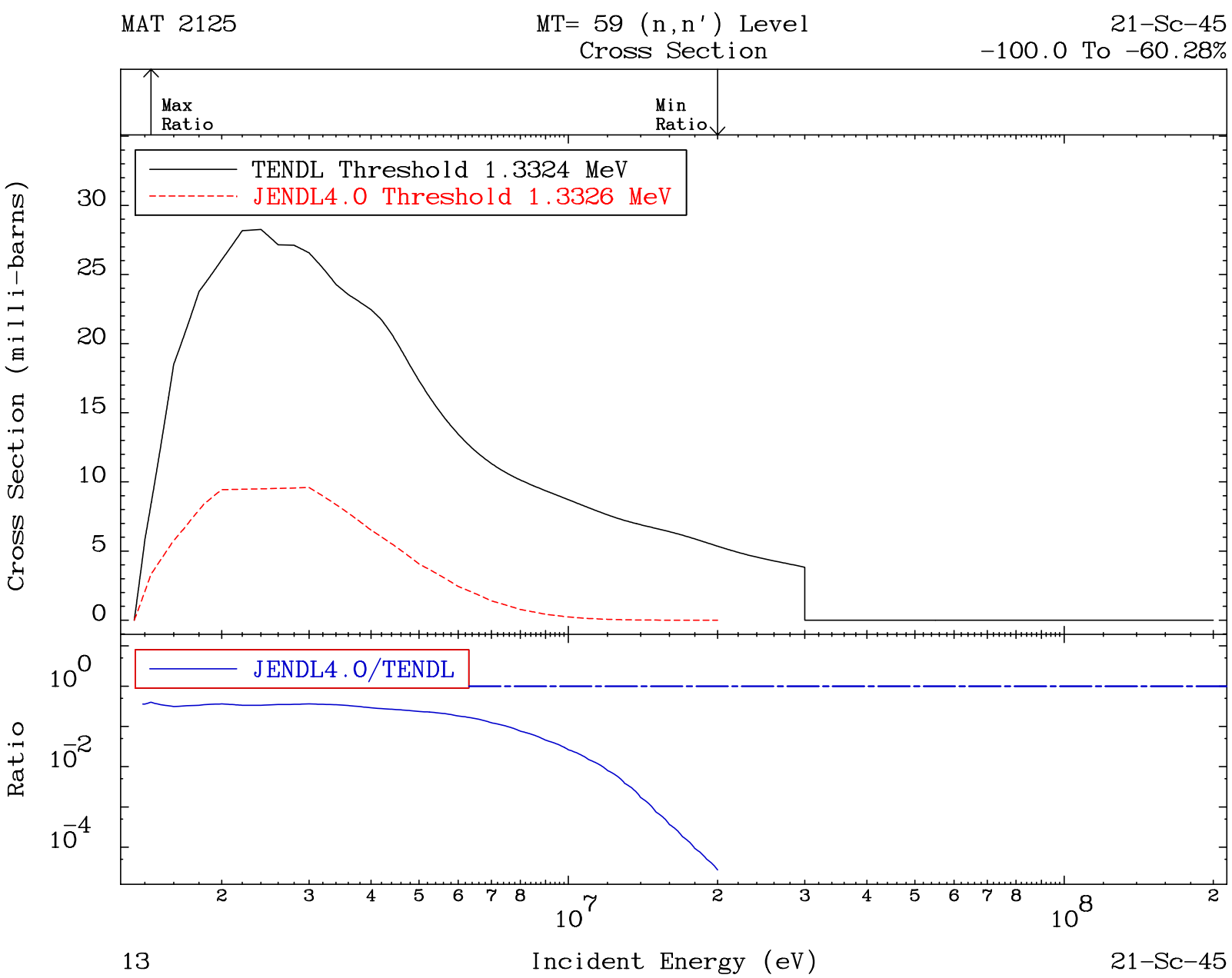

MAT 2125
MT= 54 (n,n') Level
Cross Section
21-Sc-45
-71.65 To 43.26 %
Min Ratio
Max Ratio
TENDL Threshold 736.28 keV
JENDL4.0 Threshold 736.15 keV
Cross Section (milli-barns)
200
150
100
50
0
JENDL4.0/TENDL
Ratio
1.6
1.2
0.8
0.4
7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
8
21-Sc-45

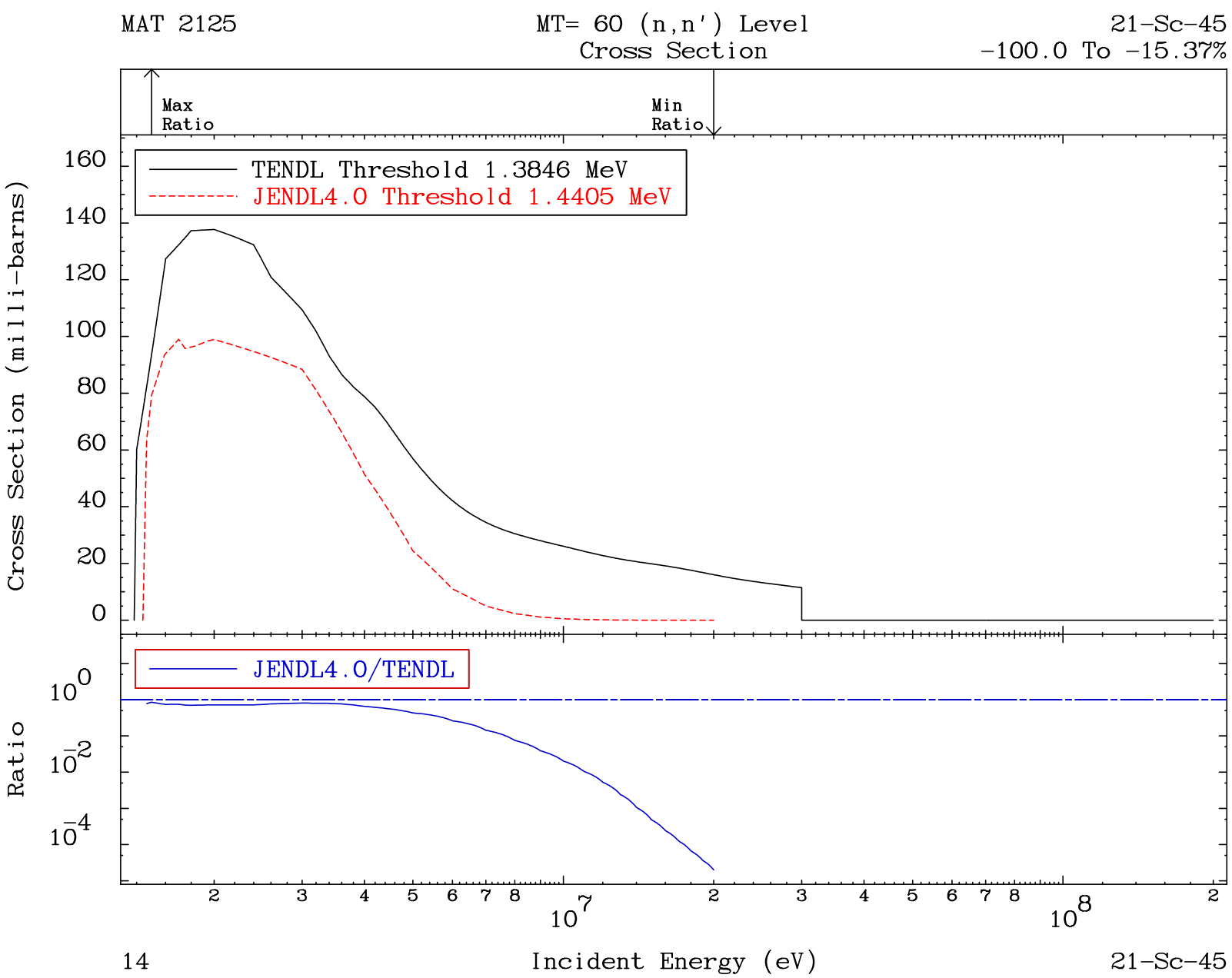

MAT 2125
MT= 55 (n,n') Level
Cross Section
21-Sc-45
-16.29 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 960.31 keV
JENDL4.0 Threshold 960.07 keV
Cross Section (milli-barns)
0
2
4
6
8
10
12
14
JENDL4.0/TENDL
Ratio
10^0
10^2
10^4
10^6
10^7
10^8
2
3
4
5
6
7
8
9
Incident Energy (eV)
21-Sc-45

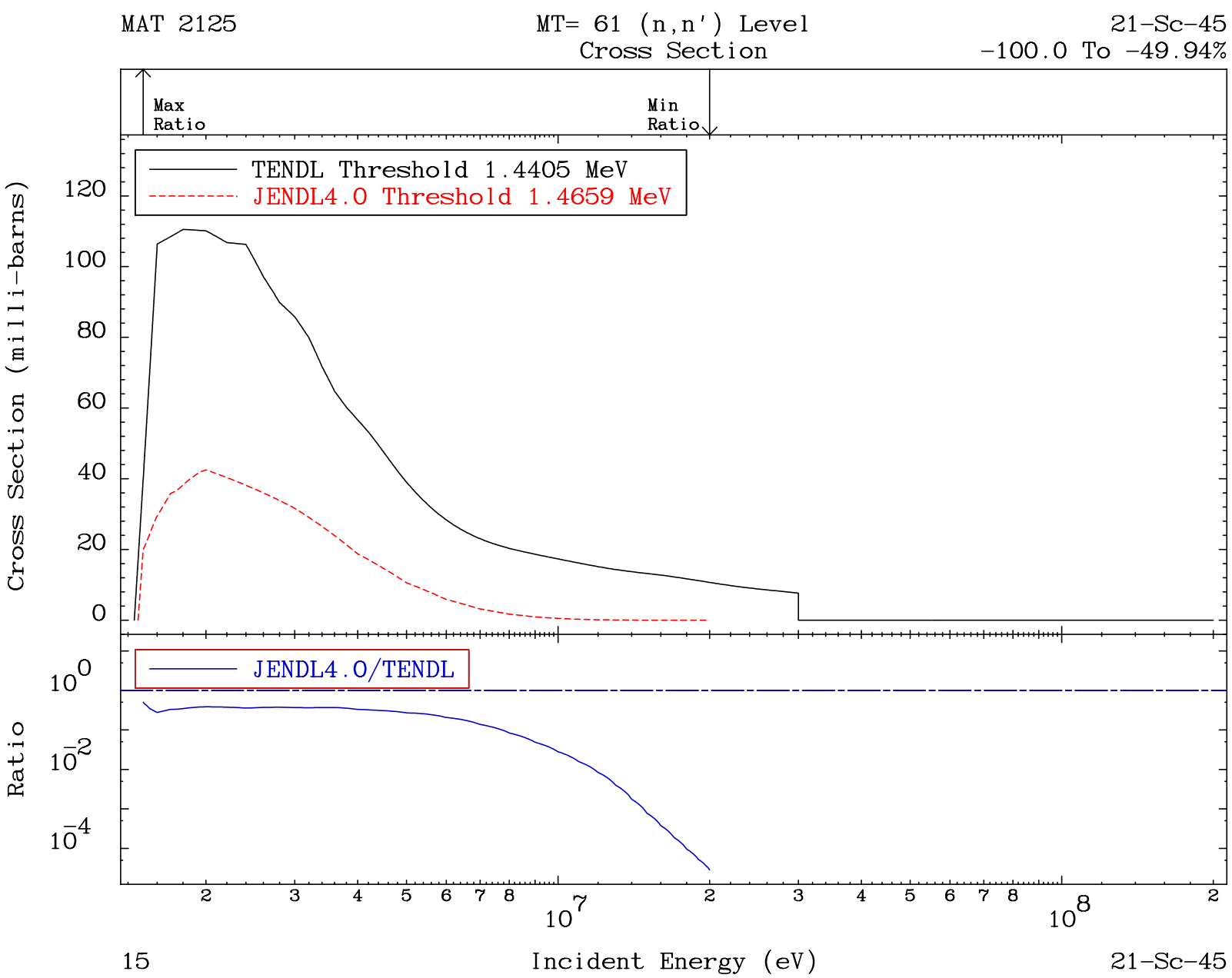

MAT 2125
MT= 56 (n,n') Level
Cross Section
21-Sc-45
-99.61 To 46.74 %
Max Ratio
Min Ratio
TENDL Threshold 996.24 keV
JENDL4.0 Threshold 996.47 keV
Cross Section (milli-barns)
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-1
10^-2
10^6
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
10
Incident Energy (eV)
21-Sc-45

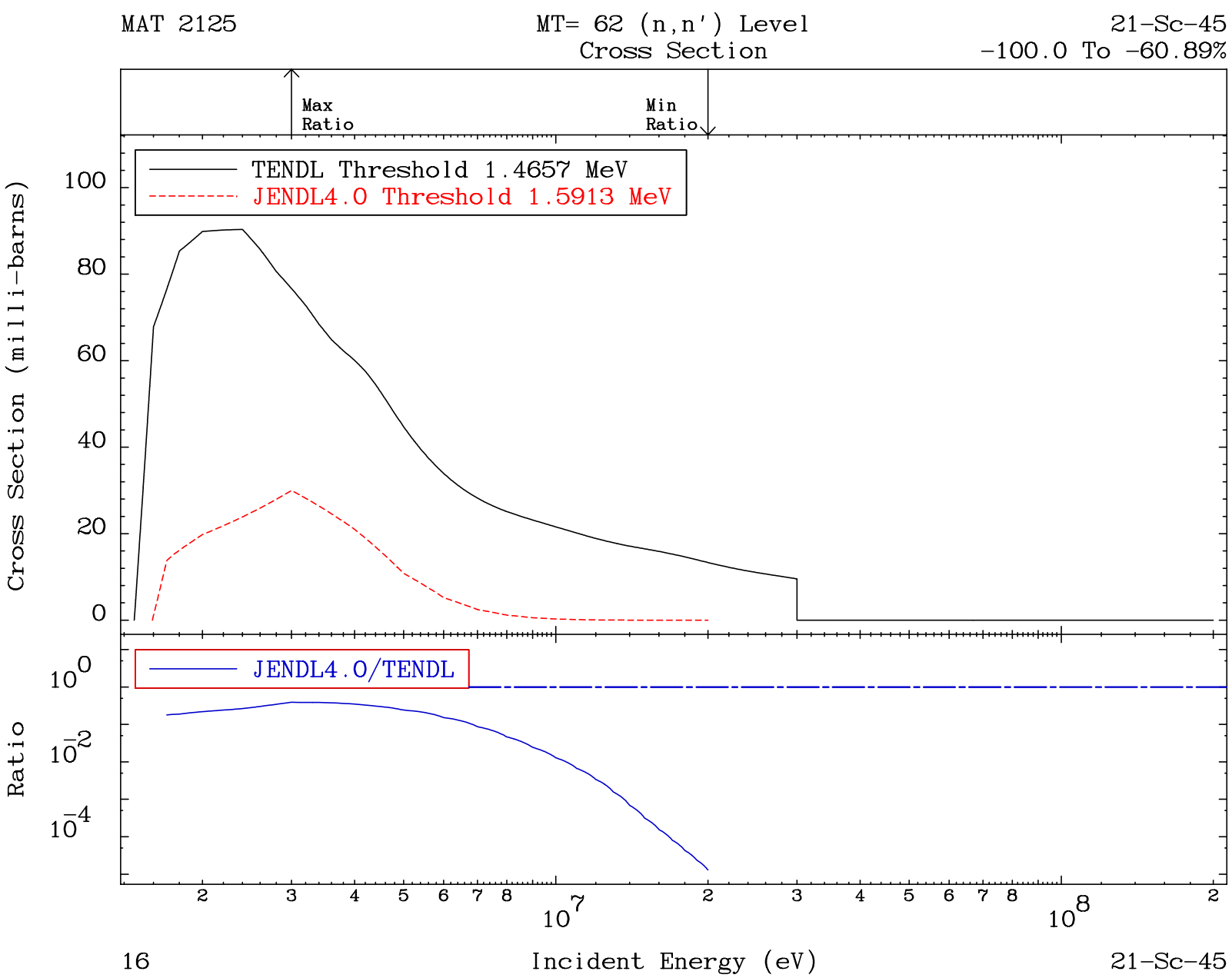

MAT 2125
MT= 57 (n,n') Level
Cross Section
21-Sc-45
-26.20 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.0916 MeV
JENDL4.0 Threshold 1.0909 MeV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
21-Sc-45

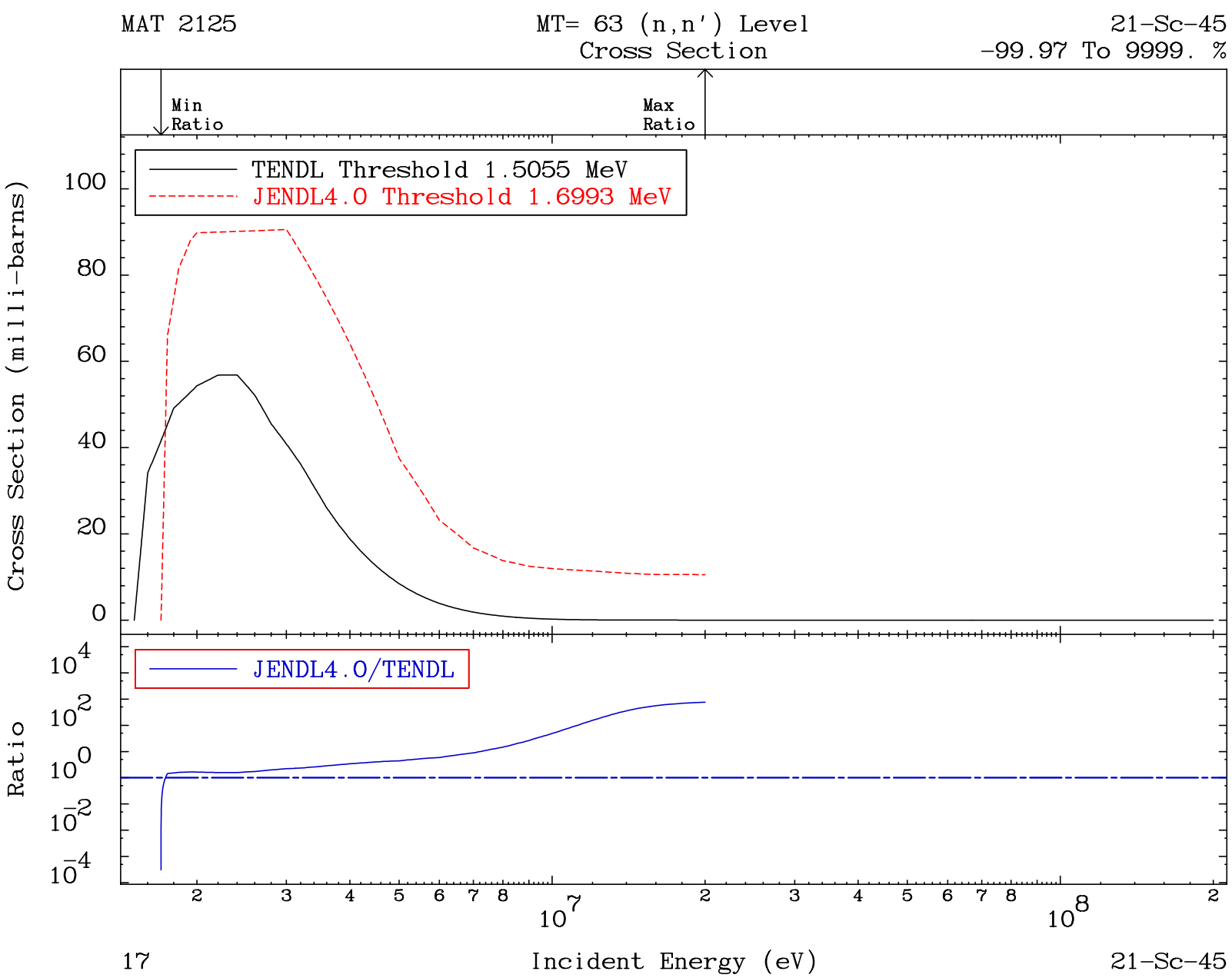

MAT 2125
MT= 58 (n,n') Level
Cross Section
21-Sc-45
-10.66 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 1.2645 MeV
JENDL4.0 Threshold 1.2648 MeV
Cross Section (milli-barns)
180
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^3
10^2
10^1
10^0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
21-Sc-45

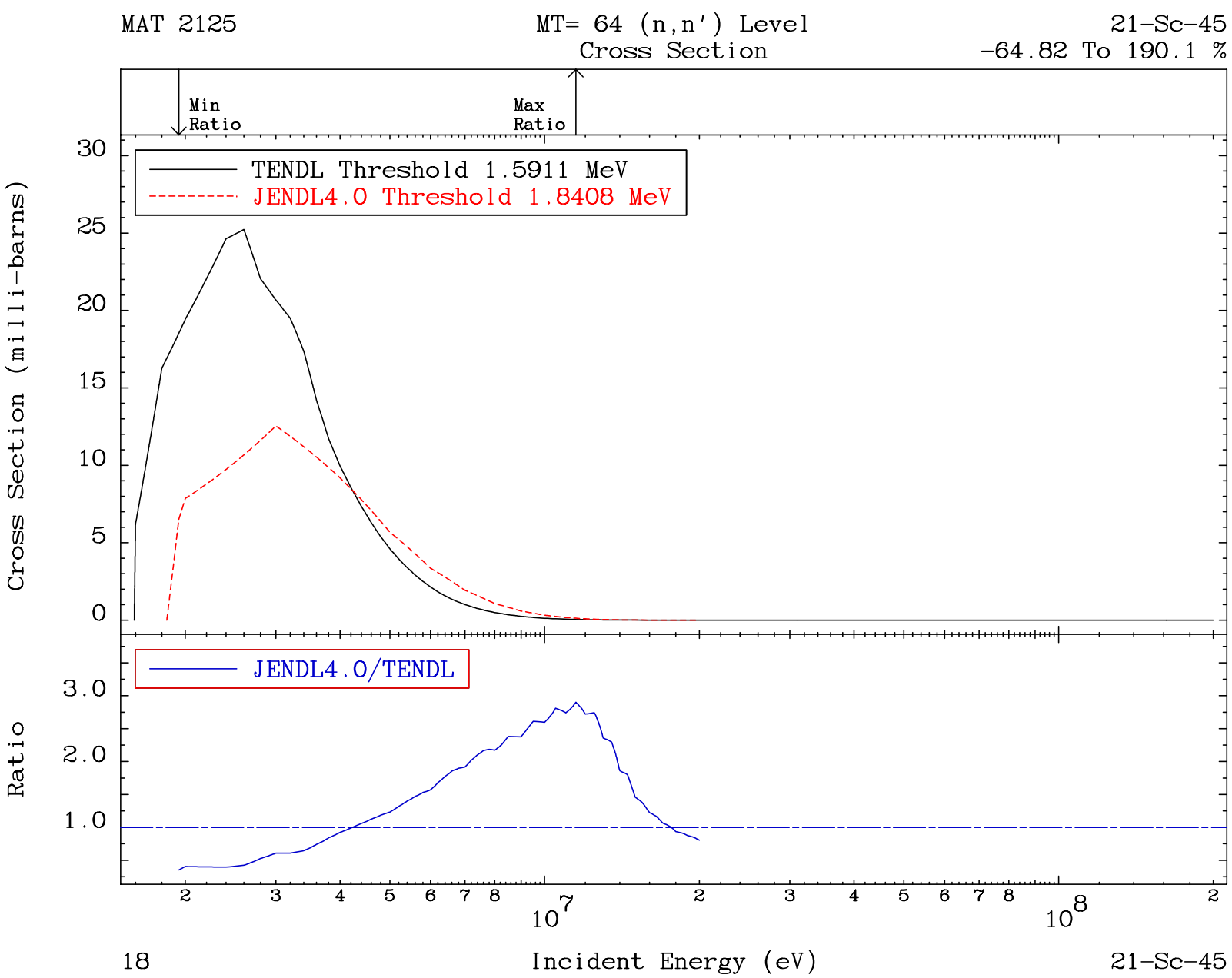

MAT 2125
MT= 59 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -60.28%
Max
Ratio
Min
Ratio
TENDL Threshold 1.3324 MeV
JENDL4.0 Threshold 1.3326 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
13
Incident Energy (eV)
21-Sc-45

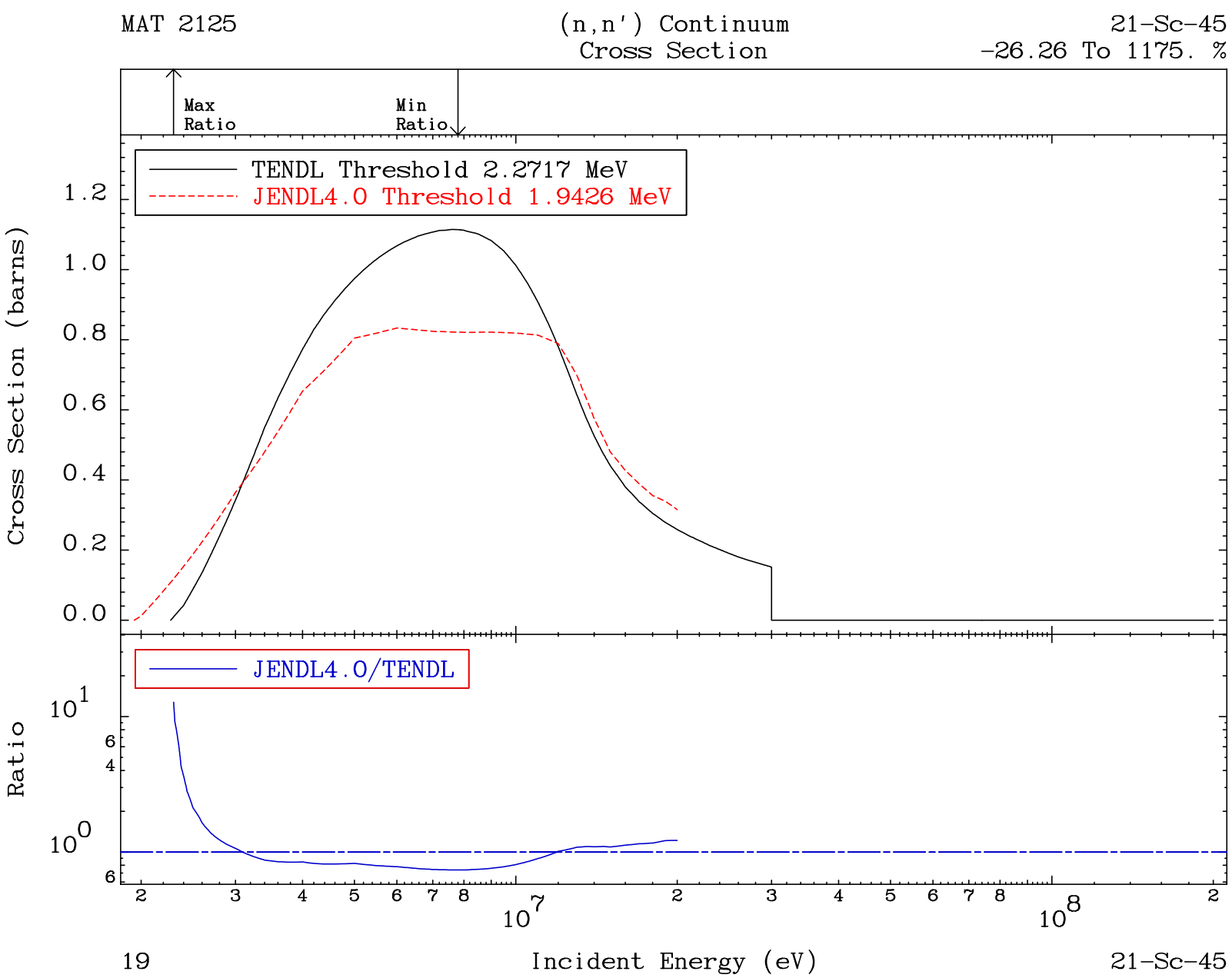

MAT 2125
MT= 60 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -15.37%
Max
Ratio
Min
Ratio
TENDL Threshold 1.3846 MeV
JENDL4.0 Threshold 1.4405 MeV
Cross Section (milli-barns)
160
140
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
10^7
2
3
4
5
6
7
8
10^8
2
14
Incident Energy (eV)
21-Sc-45

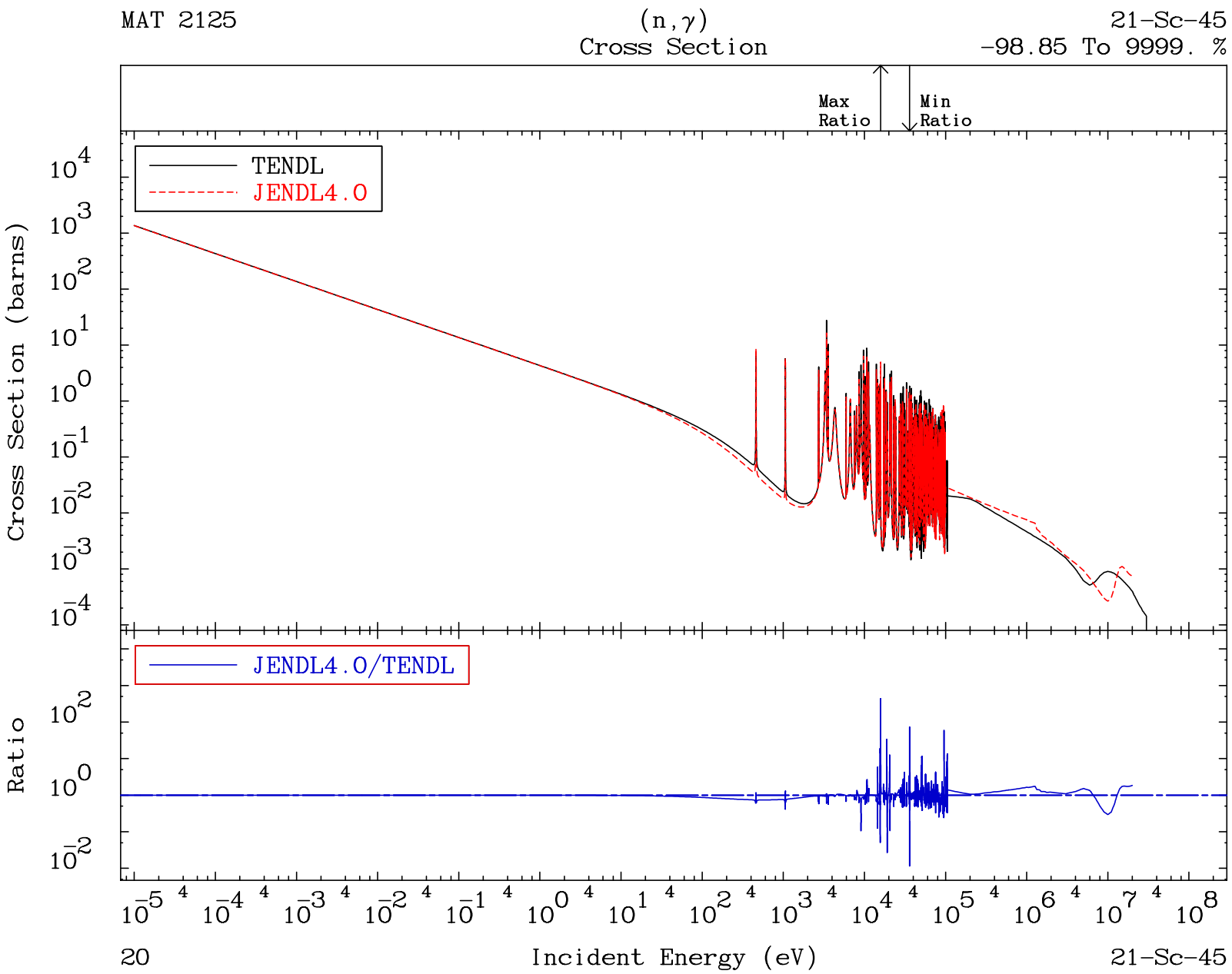

MAT 2125
MT= 61 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -49.94%
Max
Ratio
Min
Ratio
TENDL Threshold 1.4405 MeV
JENDL4.0 Threshold 1.4659 MeV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
2
3
4
5
6
7
8
10^7
10^8
15
Incident Energy (eV)
21-Sc-45

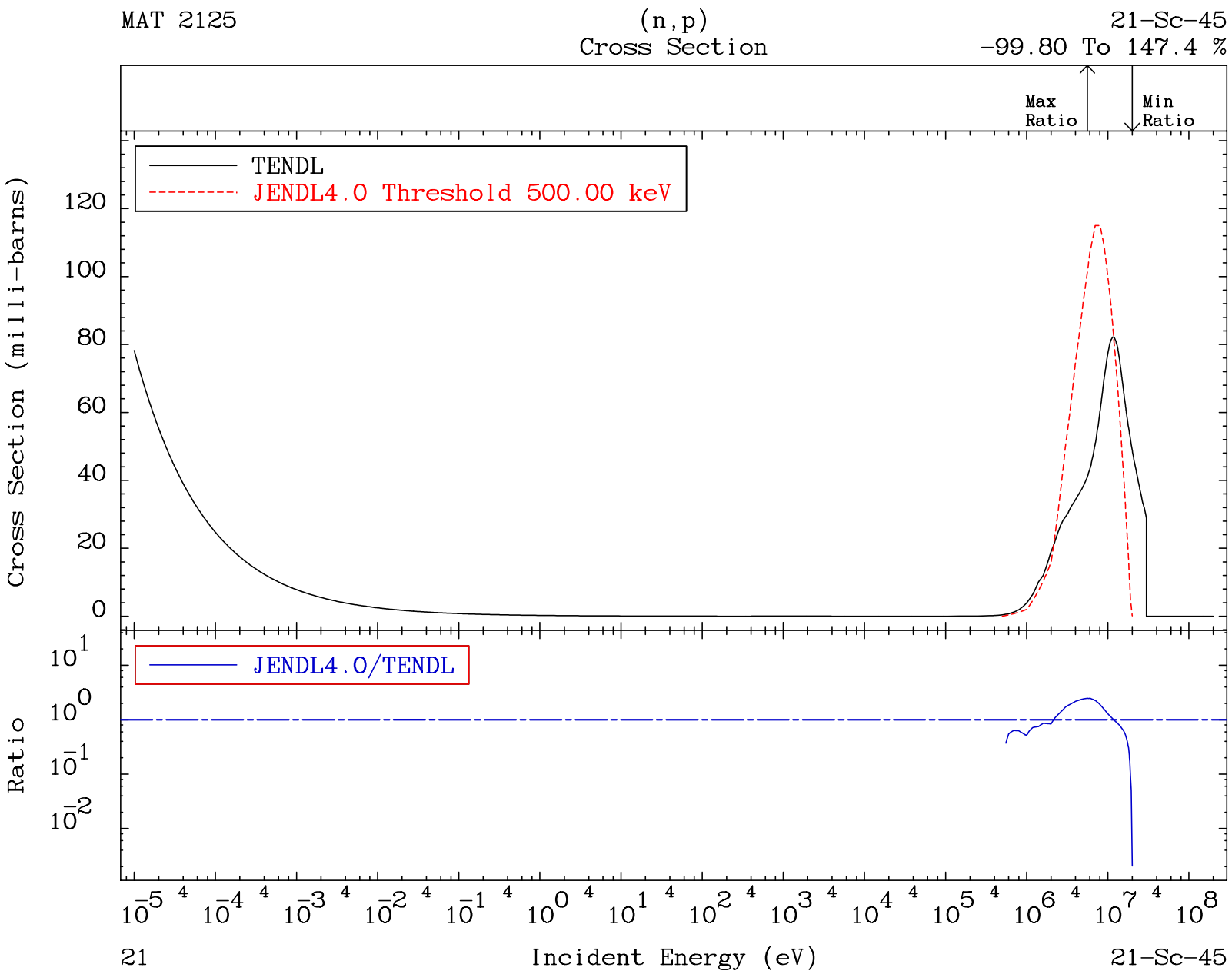

MAT 2125
MT= 62 (n,n') Level
Cross Section
21-Sc-45
-100.0 To -60.89%
Max
Ratio
Min
Ratio
TENDL Threshold 1.4657 MeV
JENDL4.0 Threshold 1.5913 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
16
Incident Energy (eV)
21-Sc-45

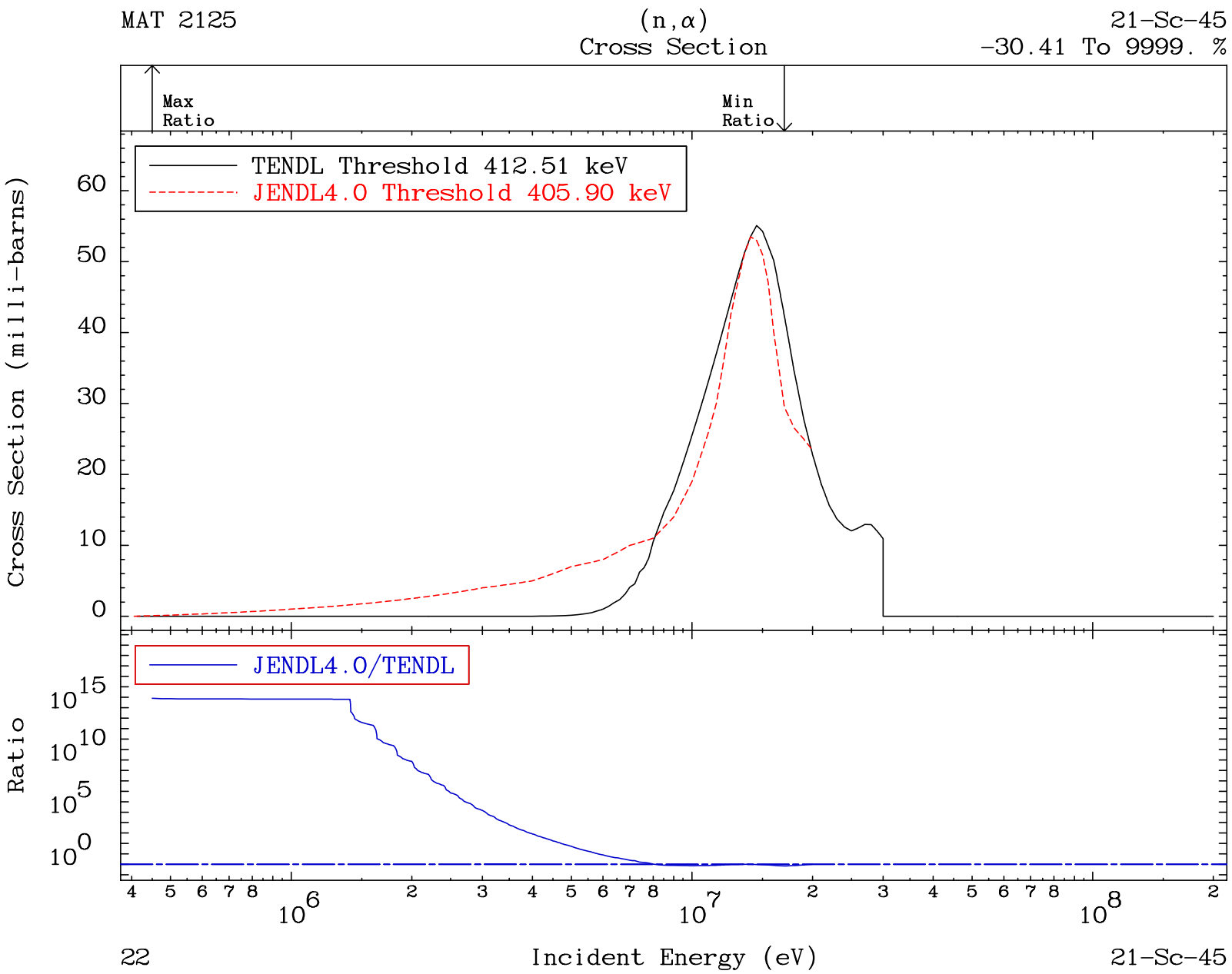

MAT 2125
MT= 63 (n,n') Level
Cross Section
21-Sc-45
-99.97 To 9999. %
Min
Ratio
Max
Ratio
TENDL Threshold 1.5055 MeV
JENDL4.0 Threshold 1.6993 MeV
Cross Section (milli-barns)
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^4
10^2
10^0
10^-2
10^-4
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
17
Incident Energy (eV)
21-Sc-45

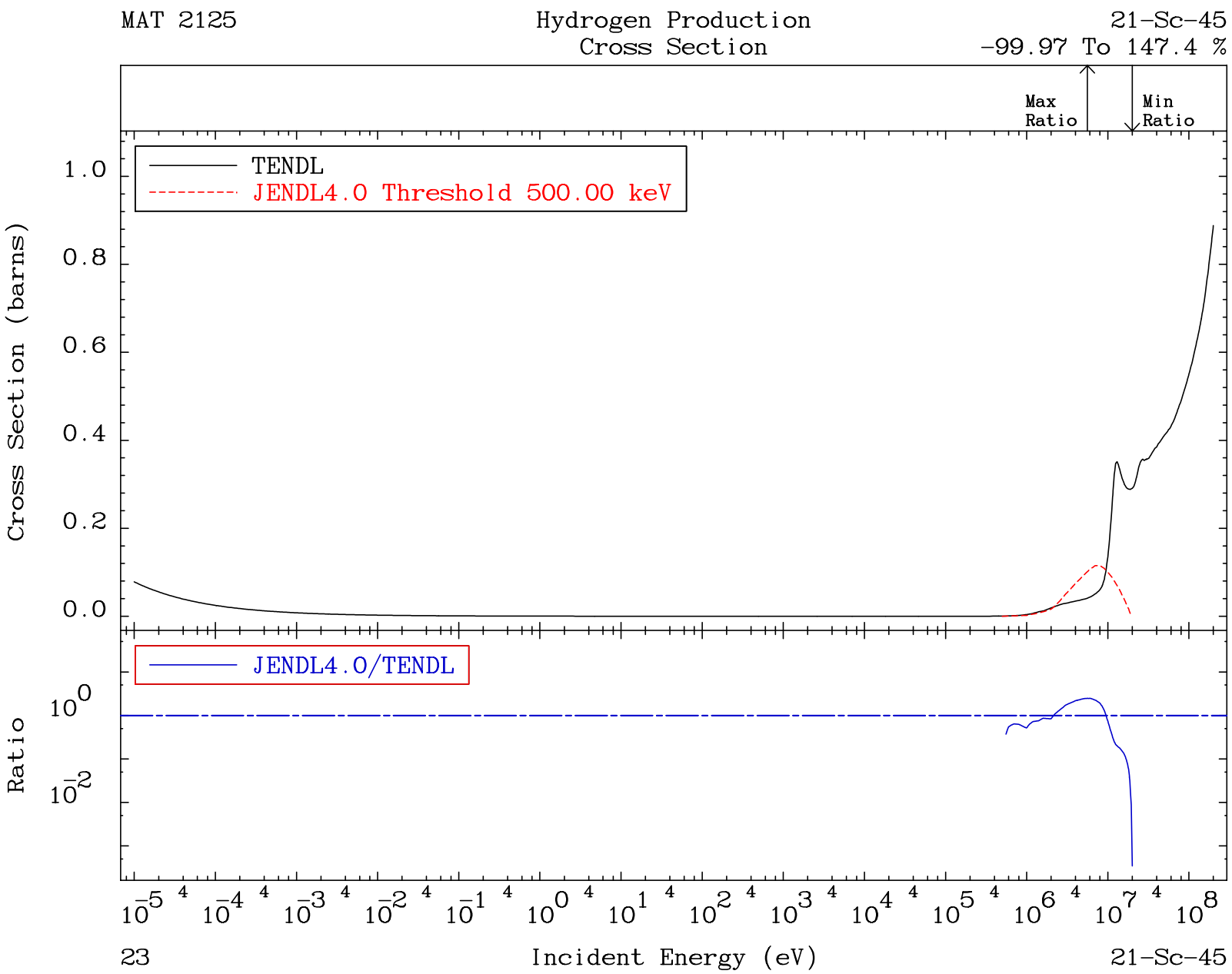

MAT 2125
MT= 64 (n,n') Level
Cross Section
21-Sc-45
-64.82 To 190.1 %
Min Ratio
Max Ratio
TENDL Threshold 1.5911 MeV
JENDL4.0 Threshold 1.8408 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JENDL4.0/TENDL
Ratio
3.0
2.0
1.0
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
21-Sc-45

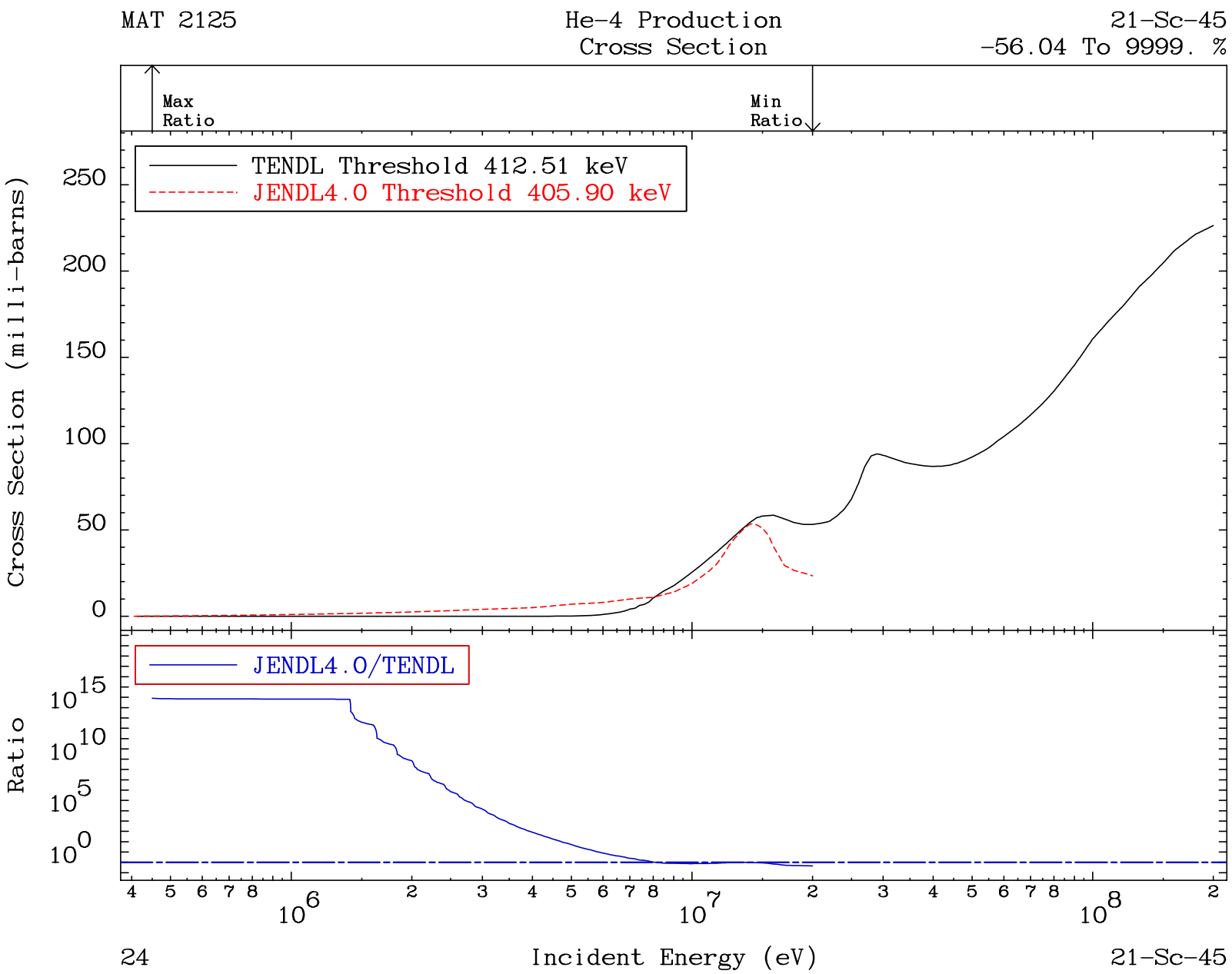

MAT 2125
(n,n') Continuum
Cross Section
21-Sc-45
-26.26 To 1175. %
Max Ratio
Min Ratio
TENDL Threshold 2.2717 MeV
JENDL4.0 Threshold 1.9426 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^1
6
4
10^0
6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
19
Incident Energy (eV)
21-Sc-45

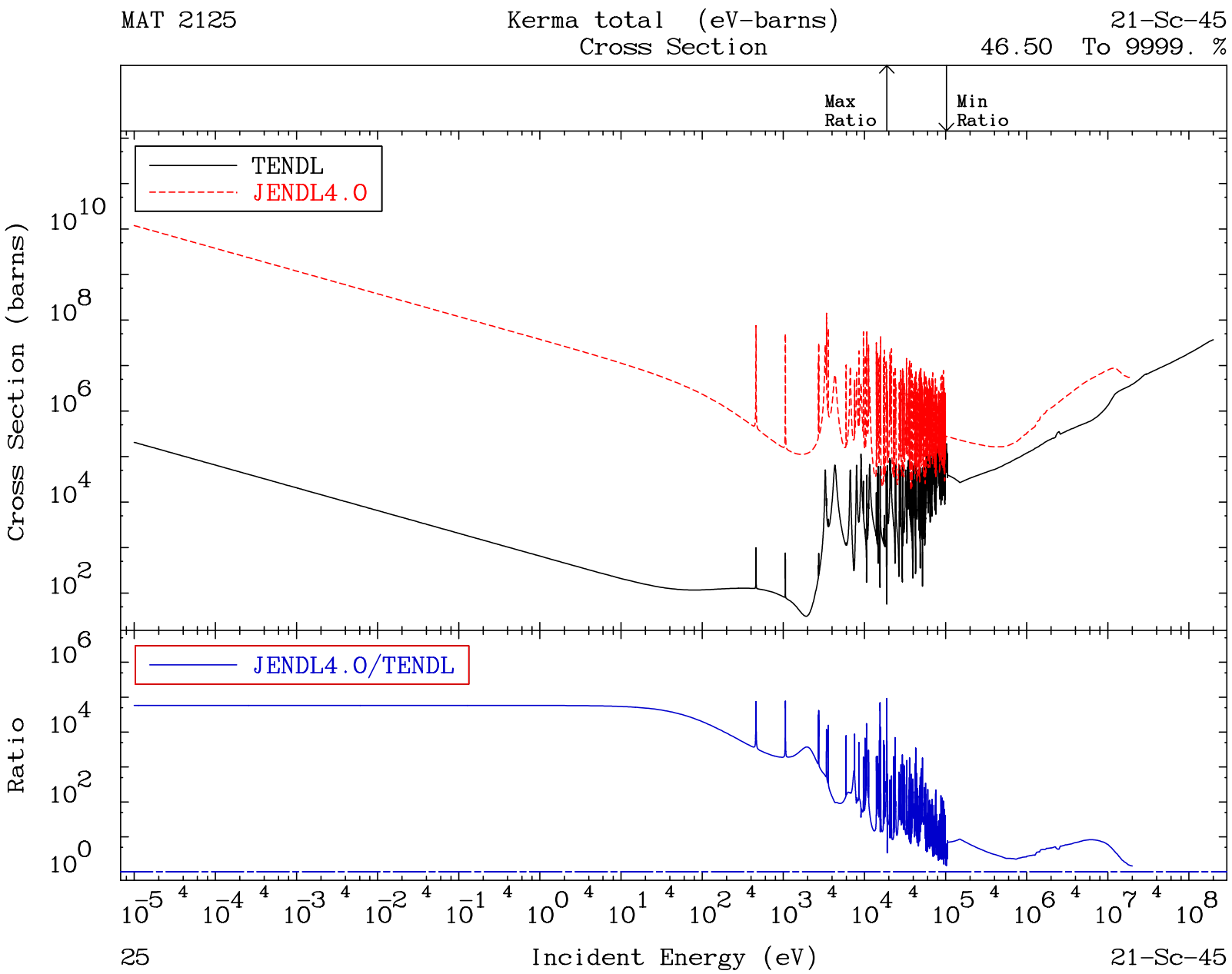

MAT 2125
(n,γ)
Cross Section
21-Sc-45
-98.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
20
21-Sc-45

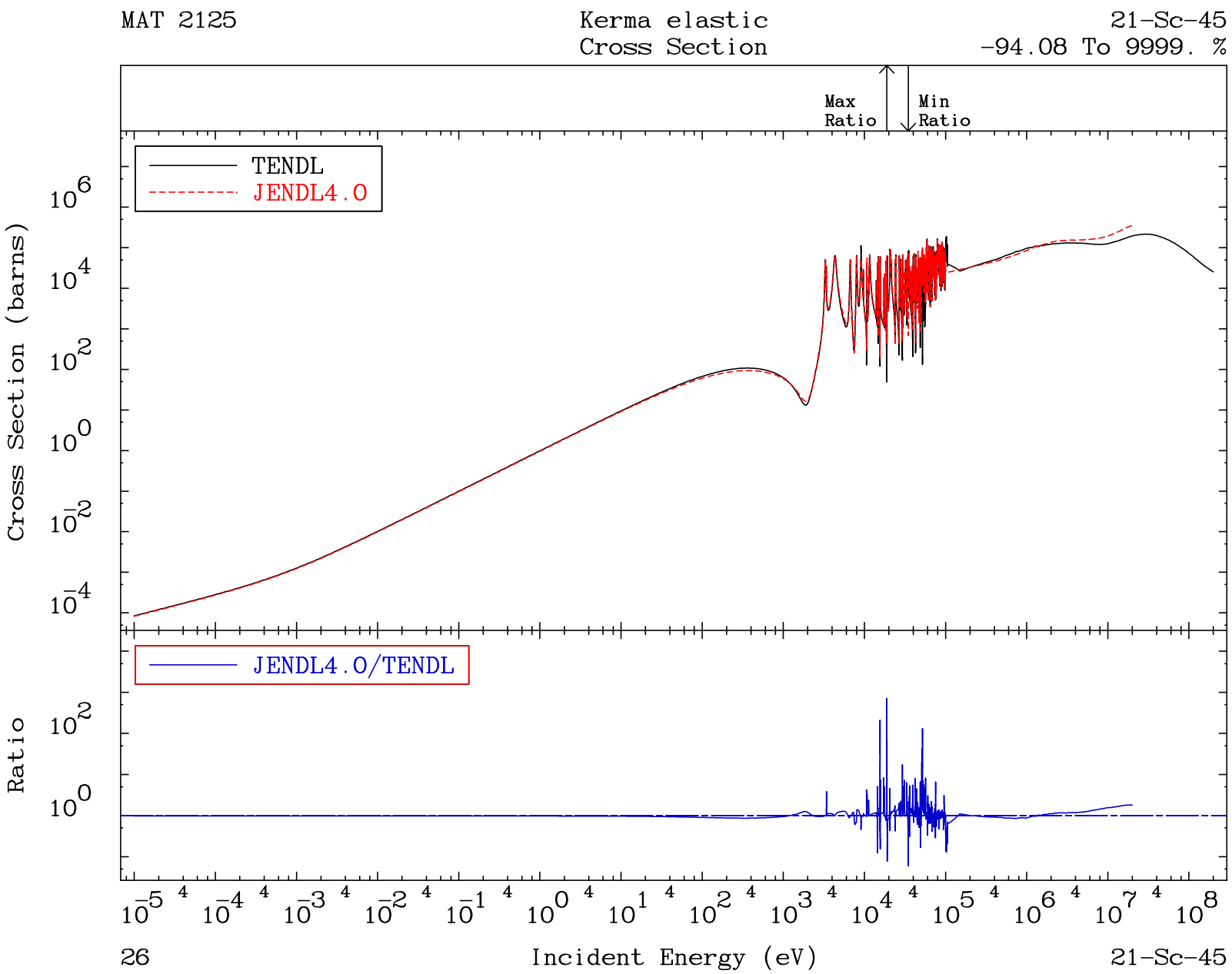

MAT 2125
(n,p)
Cross Section
21-Sc-45
-99.80 To 147.4 %
Max Ratio
Min Ratio
TENDL
JENDL4.0 Threshold 500.00 keV
Cross Section (milli-barns)
120
100
80
60
40
20
0
JENDL4.0/TENDL
Ratio
10^1
10^0
10^-1
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
21
Incident Energy (eV)
21-Sc-45

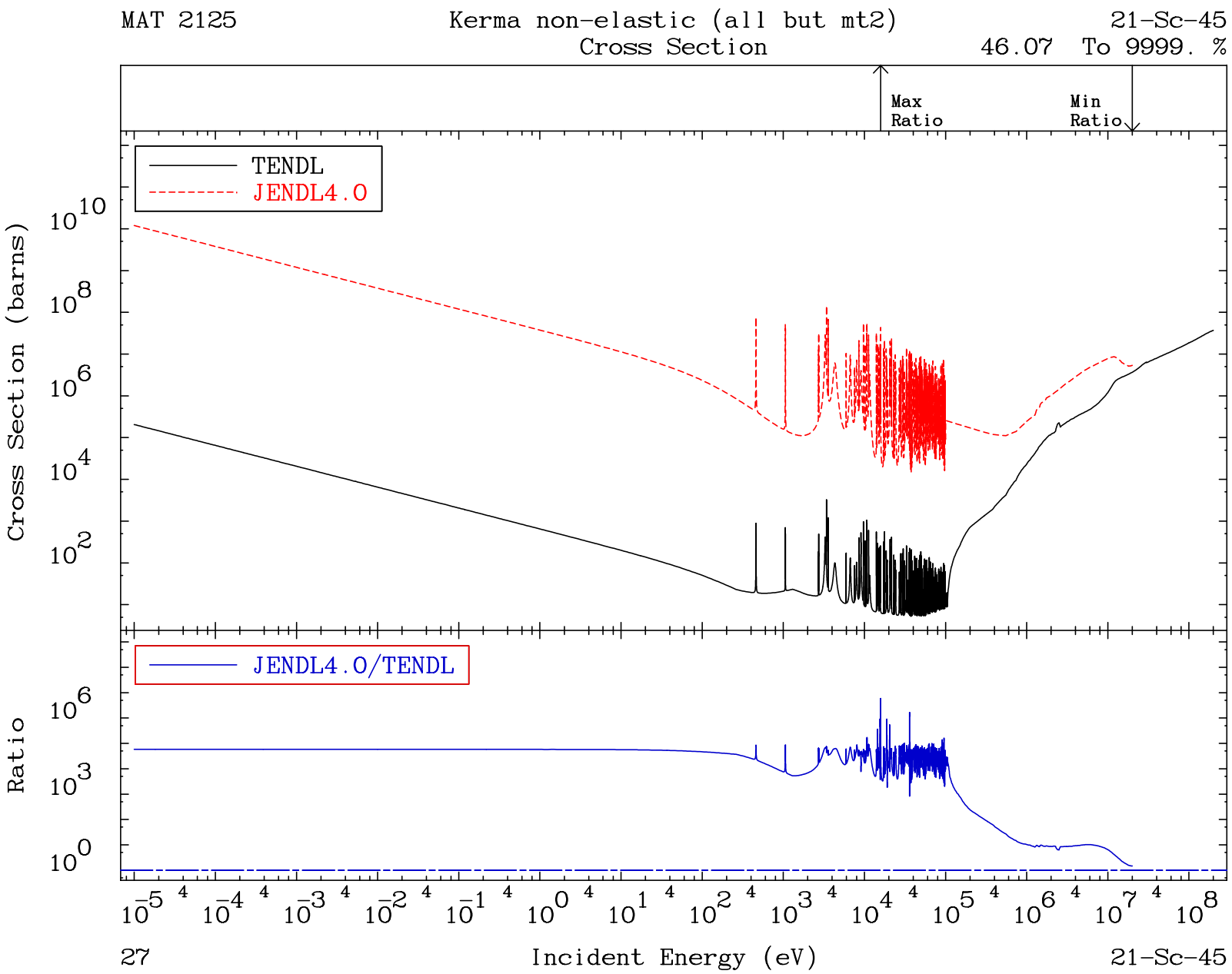

MAT 2125
(n,α)
Cross Section
21-Sc-45
-30.41 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 412.51 keV
JENDL4.0 Threshold 405.90 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JENDL4.0/TENDL
Ratio
10^15
10^10
10^5
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
22
Incident Energy (eV)
21-Sc-45

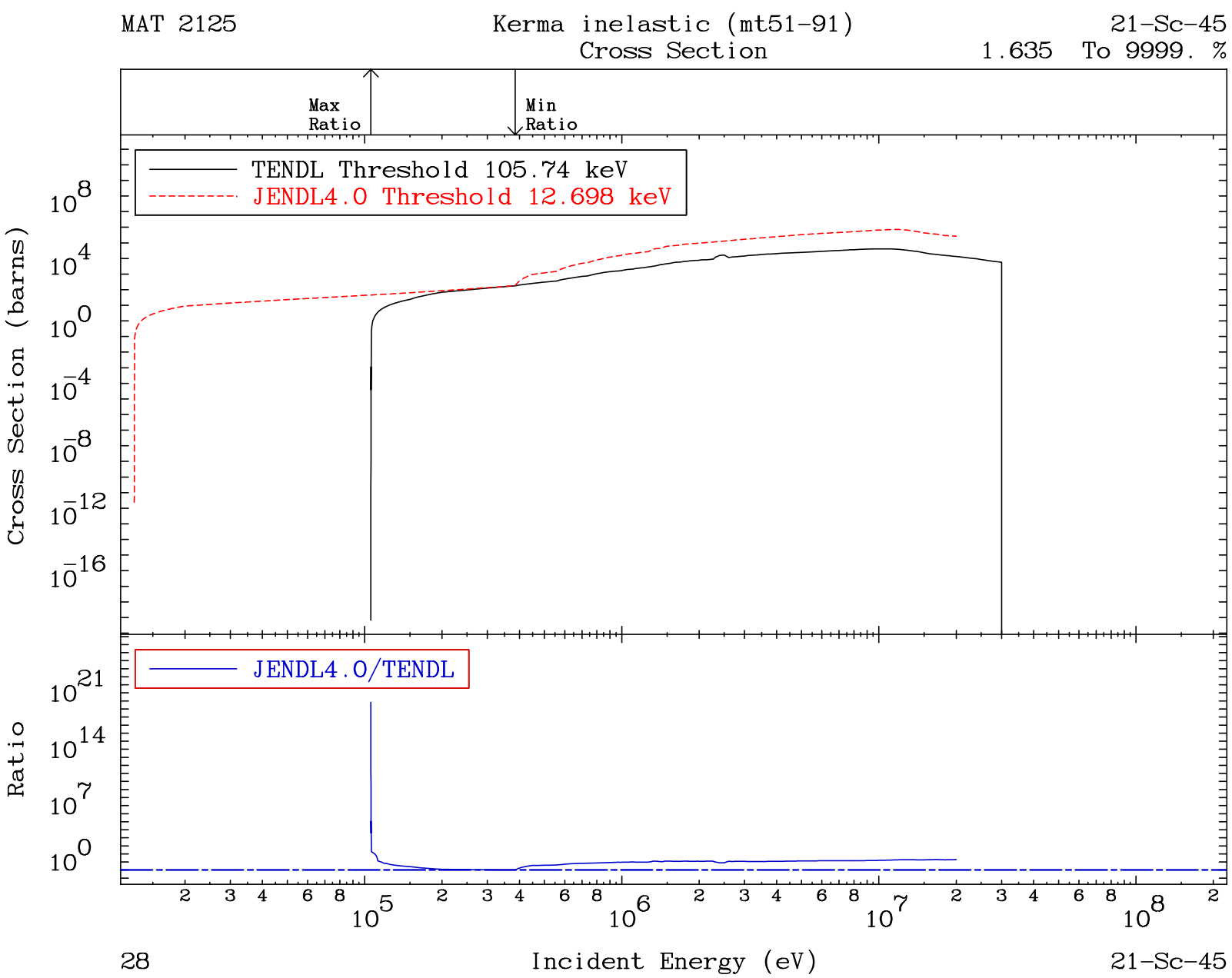

MAT 2125
Hydrogen Production
Cross Section
21-Sc-45
-99.97 To 147.4 %
Max Ratio
Min Ratio
TENDL
JENDL4.0 Threshold 500.00 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JENDL4.0/TENDL
Ratio
10^0
10^-2
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
23
Incident Energy (eV)
21-Sc-45

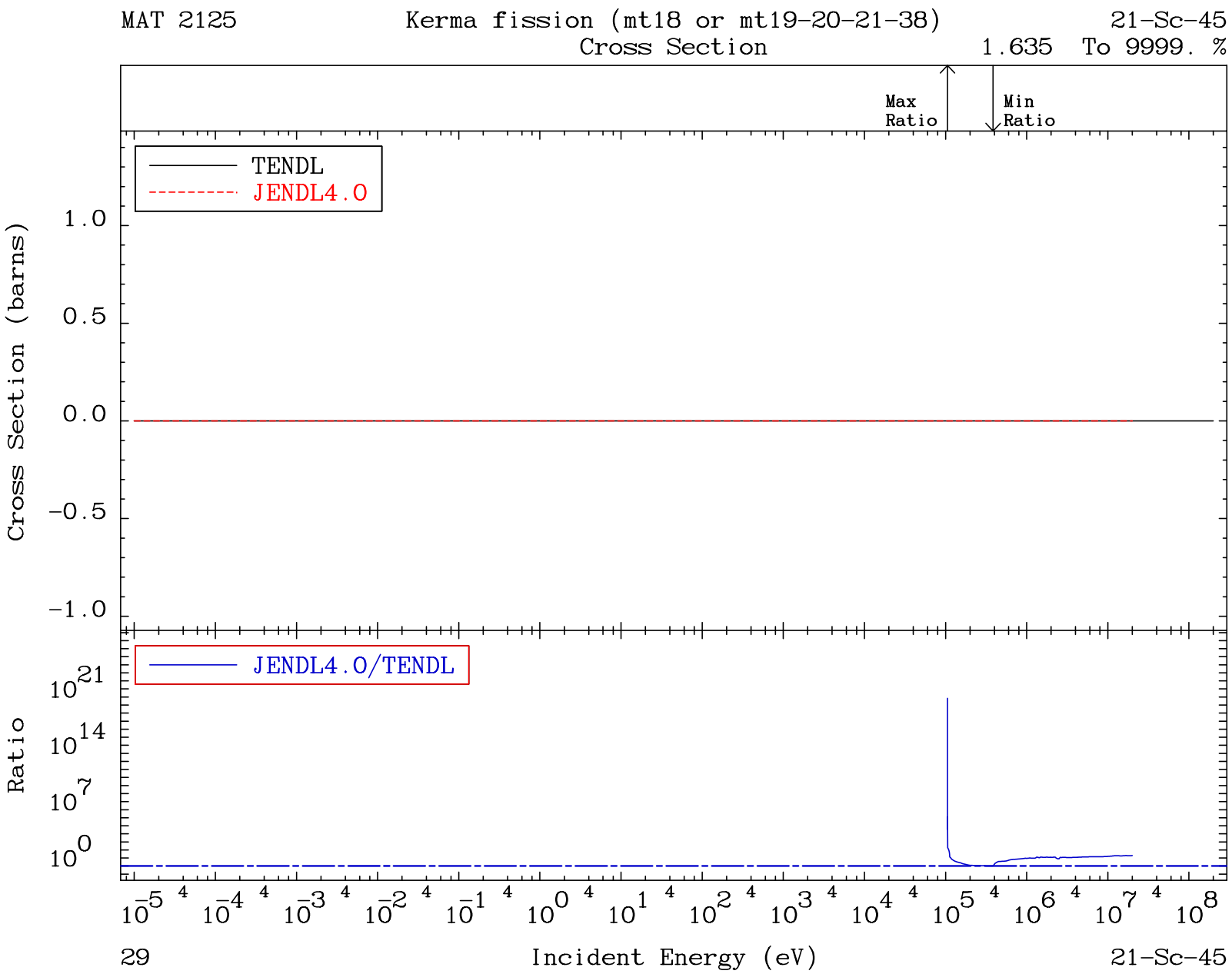

MAT 2125
He-4 Production
Cross Section
21-Sc-45
-56.04 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 412.51 keV
JENDL4.0 Threshold 405.90 keV
Cross Section (milli-barns)
250
200
150
100
50
0
JENDL4.0/TENDL
Ratio
10^15
10^10
10^5
10^0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
24
Incident Energy (eV)
21-Sc-45

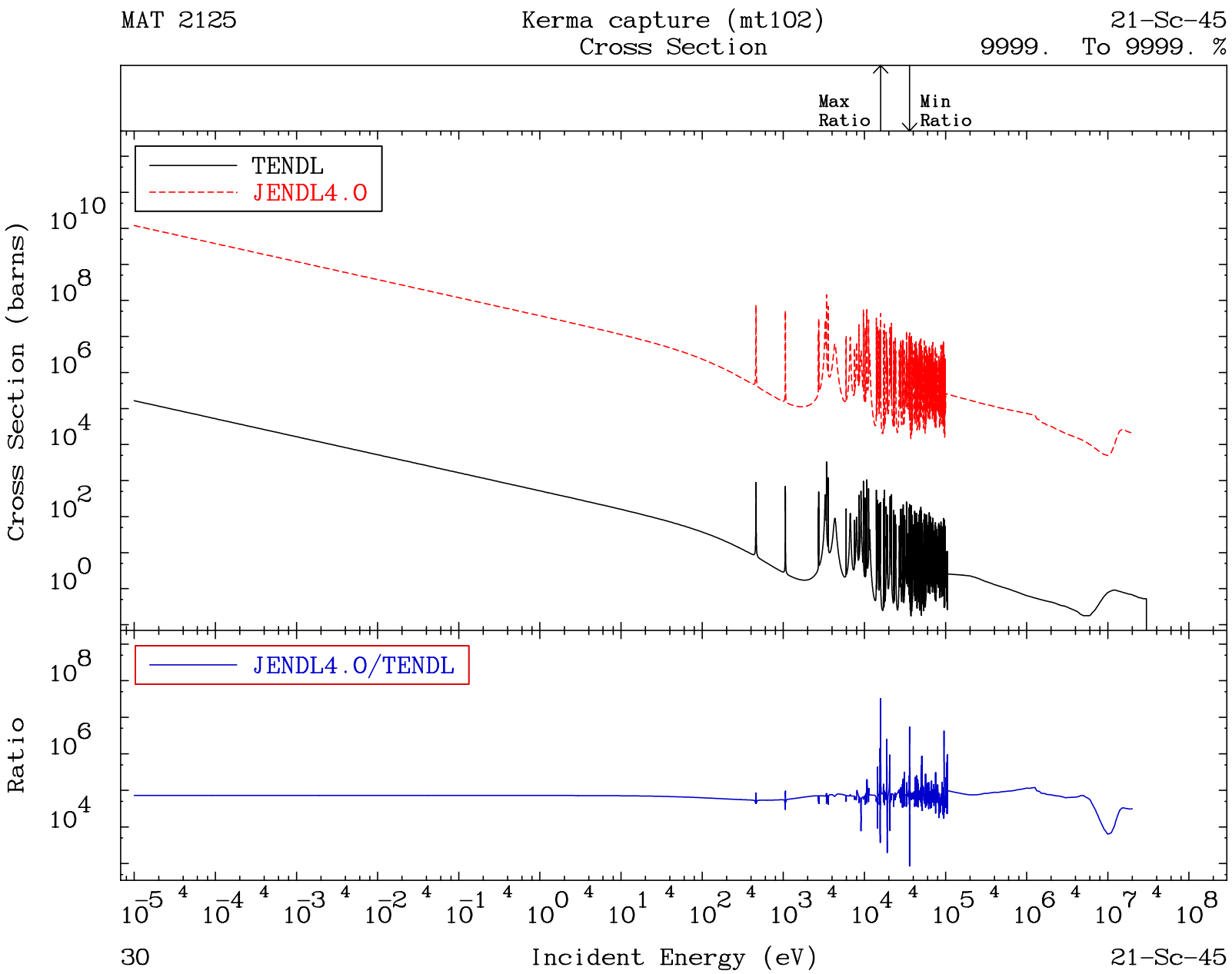

MAT 2125
Kerma total (eV-barns)
Cross Section
21-Sc-45
46.50 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
25
21-Sc-45

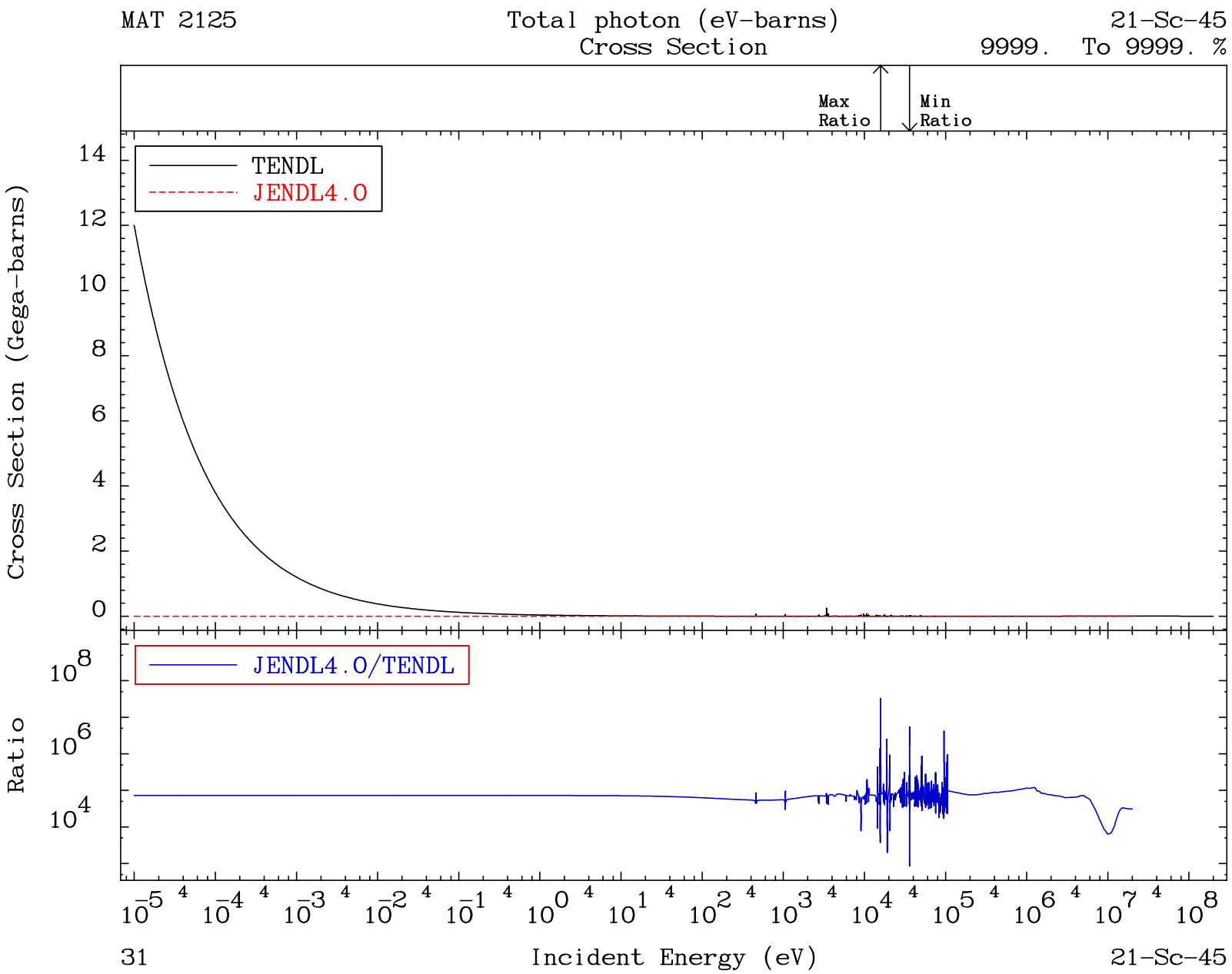

MAT 2125
Kerma elastic
Cross Section
21-Sc-45
-94.08 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
26
21-Sc-45

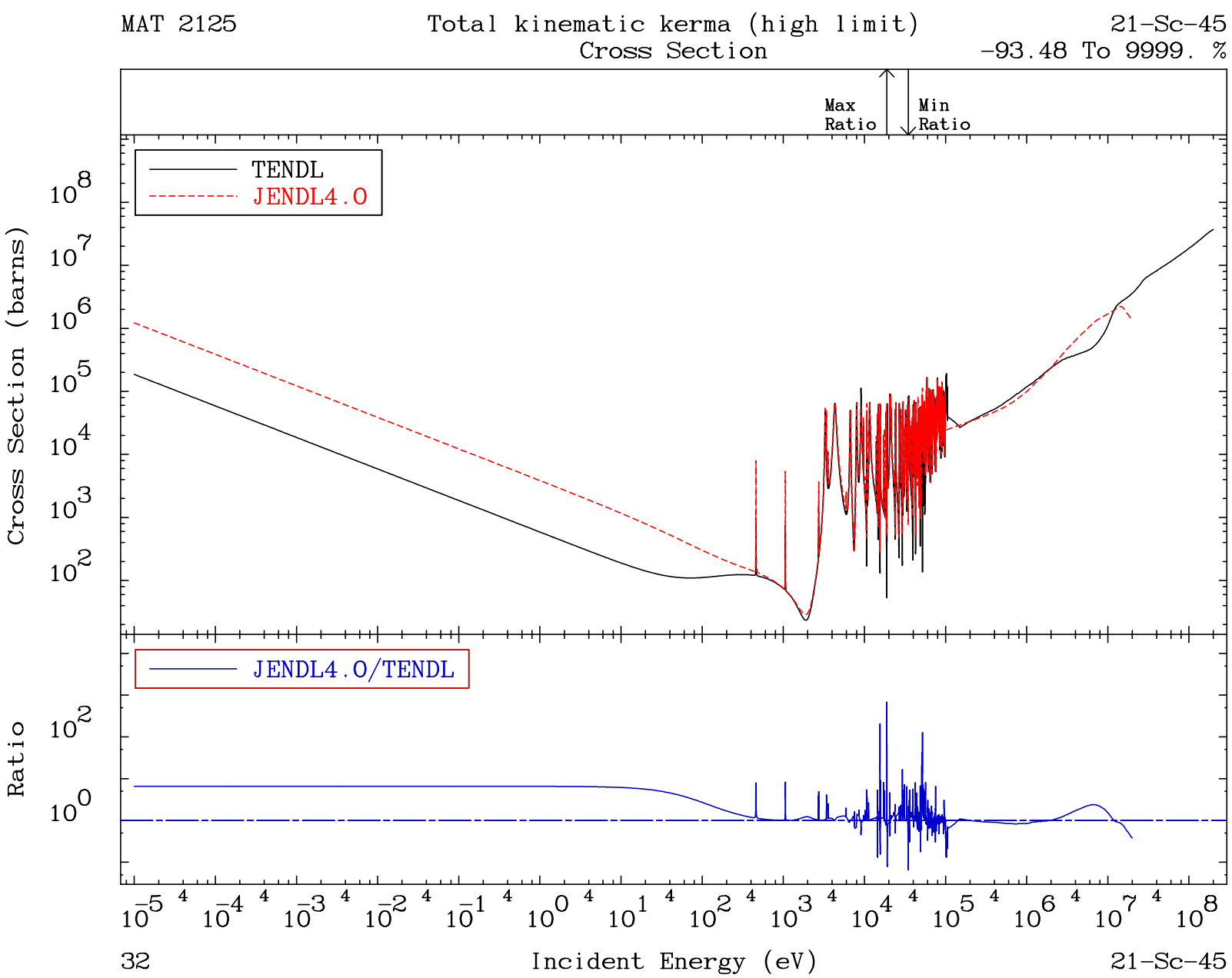

MAT 2125
Kerma non-elastic (all but mt2)
Cross Section
21-Sc-45
46.07 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
27
21-Sc-45

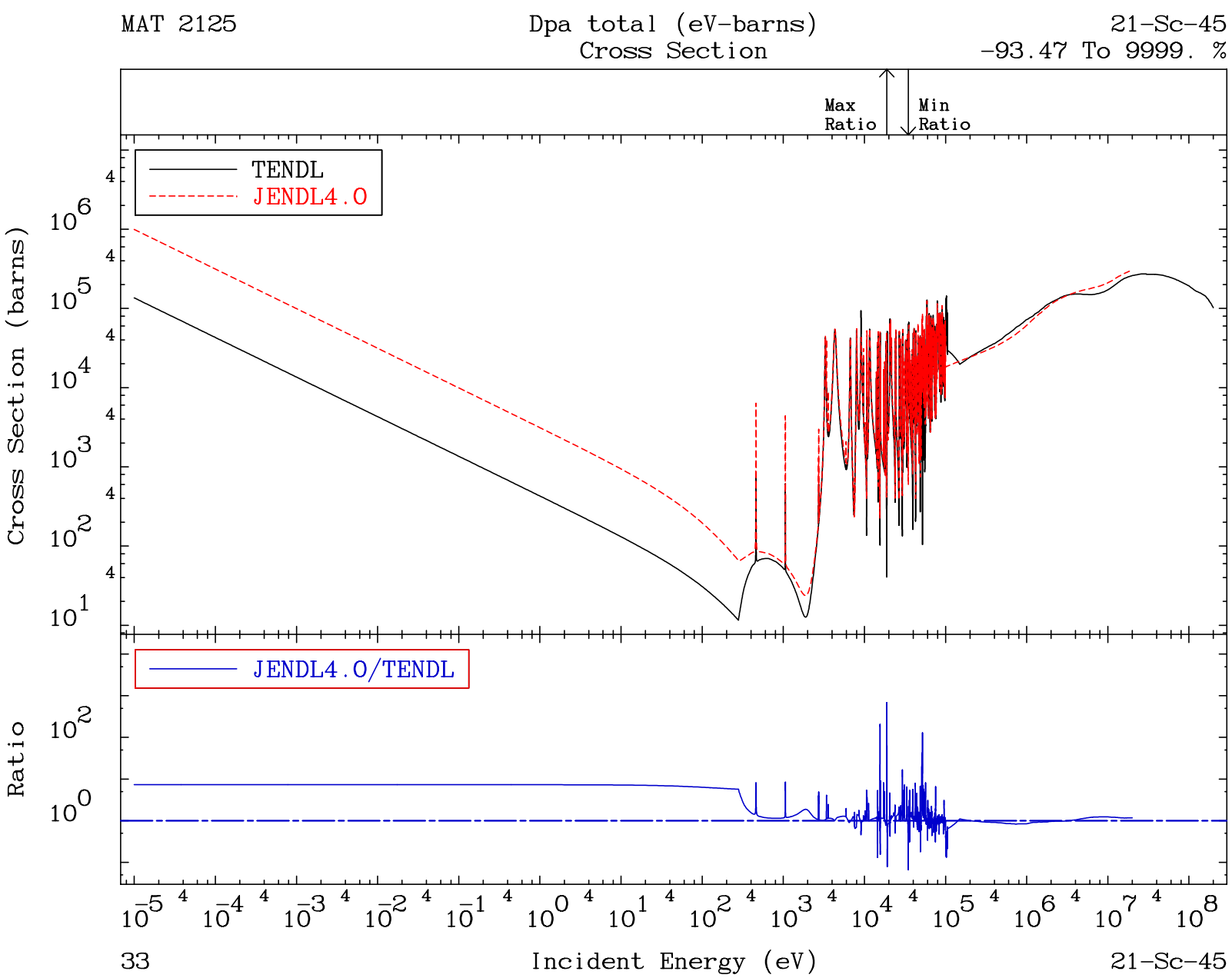

MAT 2125
Kerma inelastic (mt51-91)
Cross Section
21-Sc-45
1.635 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 105.74 keV
JENDL4.0 Threshold 12.698 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
28
21-Sc-45

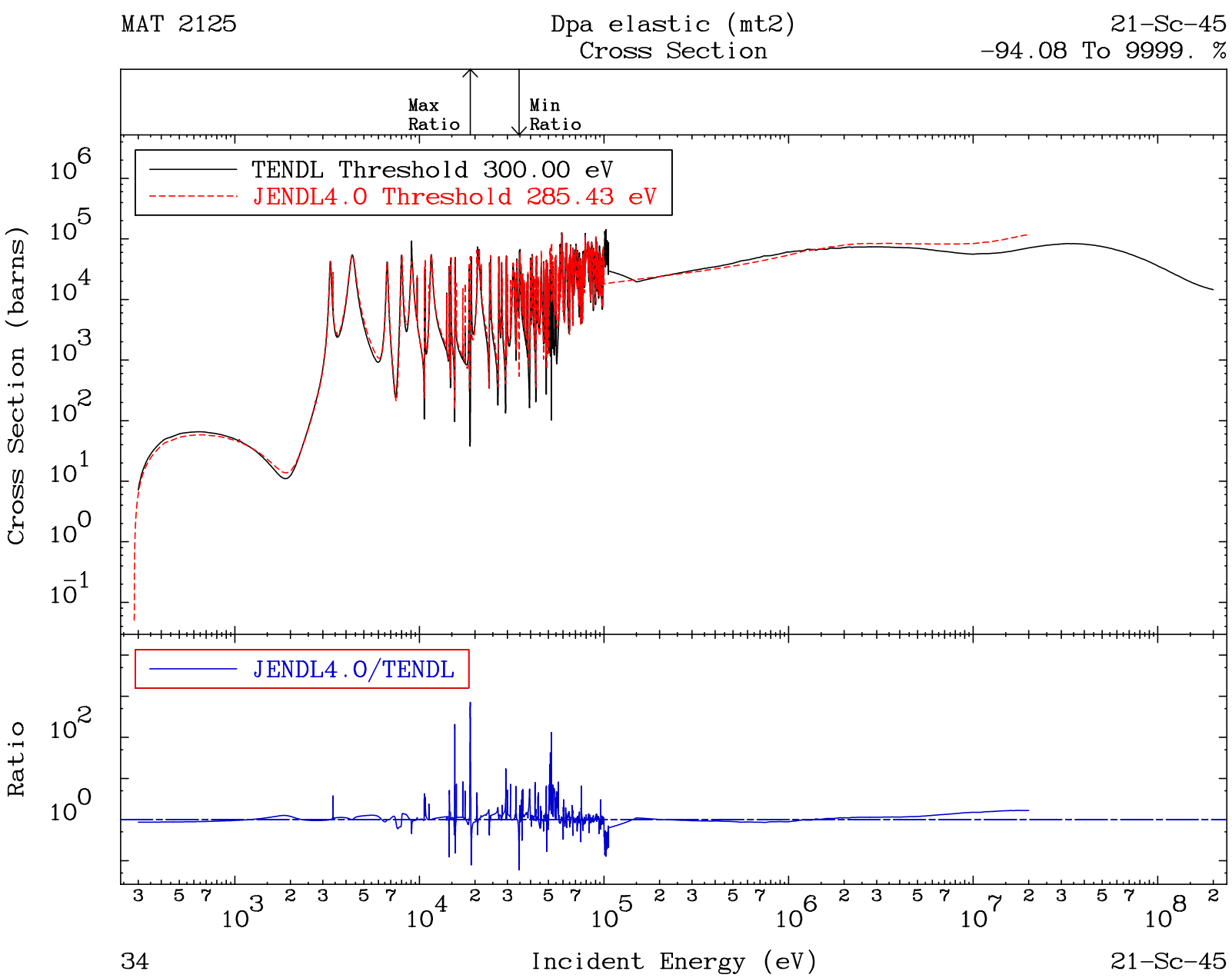

MAT 2125
Kerma fission (mt18 or mt19-20-21-38)
21-Sc-45
Cross Section
1.635 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JENDL4.0/TENDL
Ratio
10^21
10^14
10^7
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
29
Incident Energy (eV)
21-Sc-45

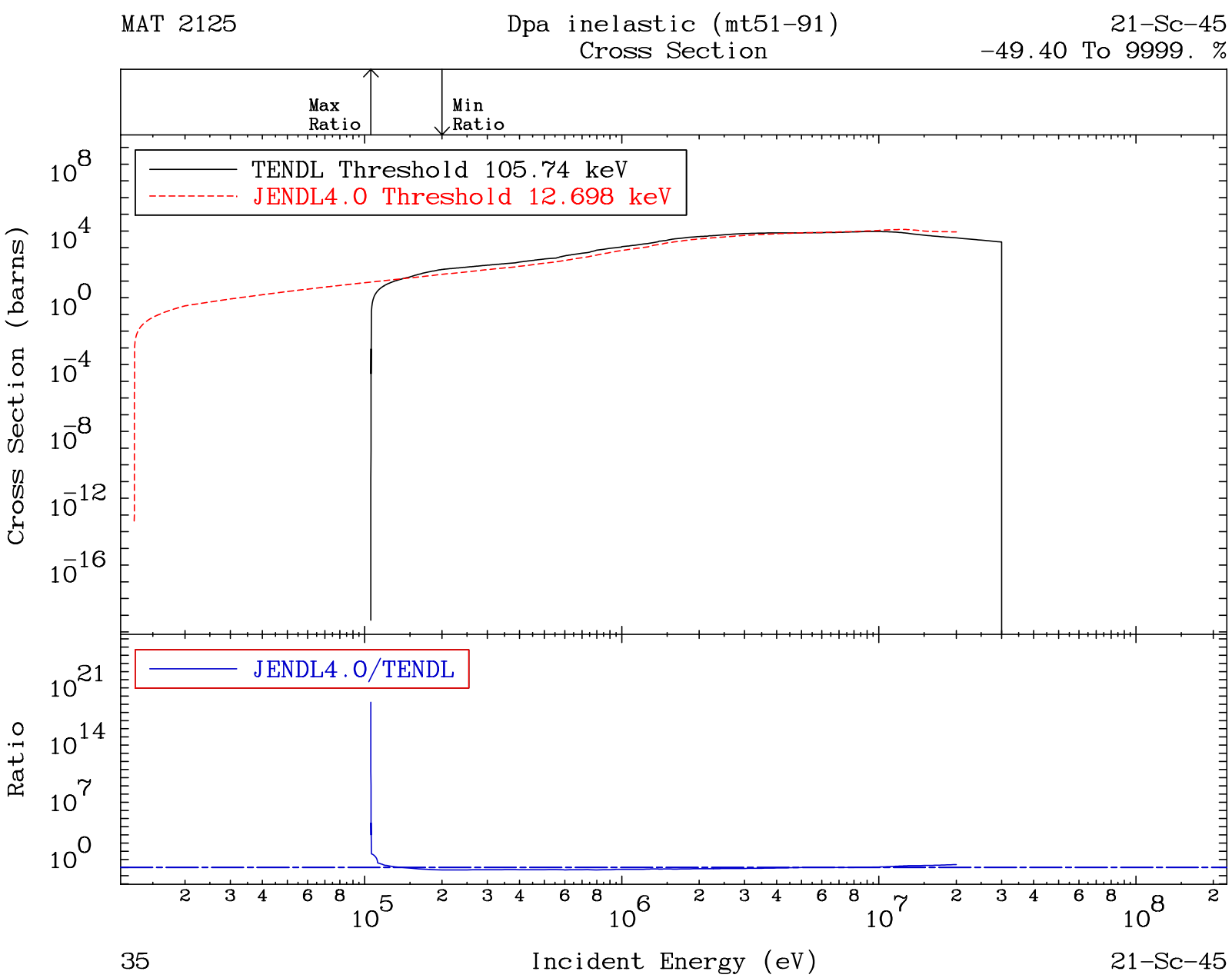

MAT 2125
Kerma capture (mt102)
Cross Section
21-Sc-45
9999. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
30
21-Sc-45

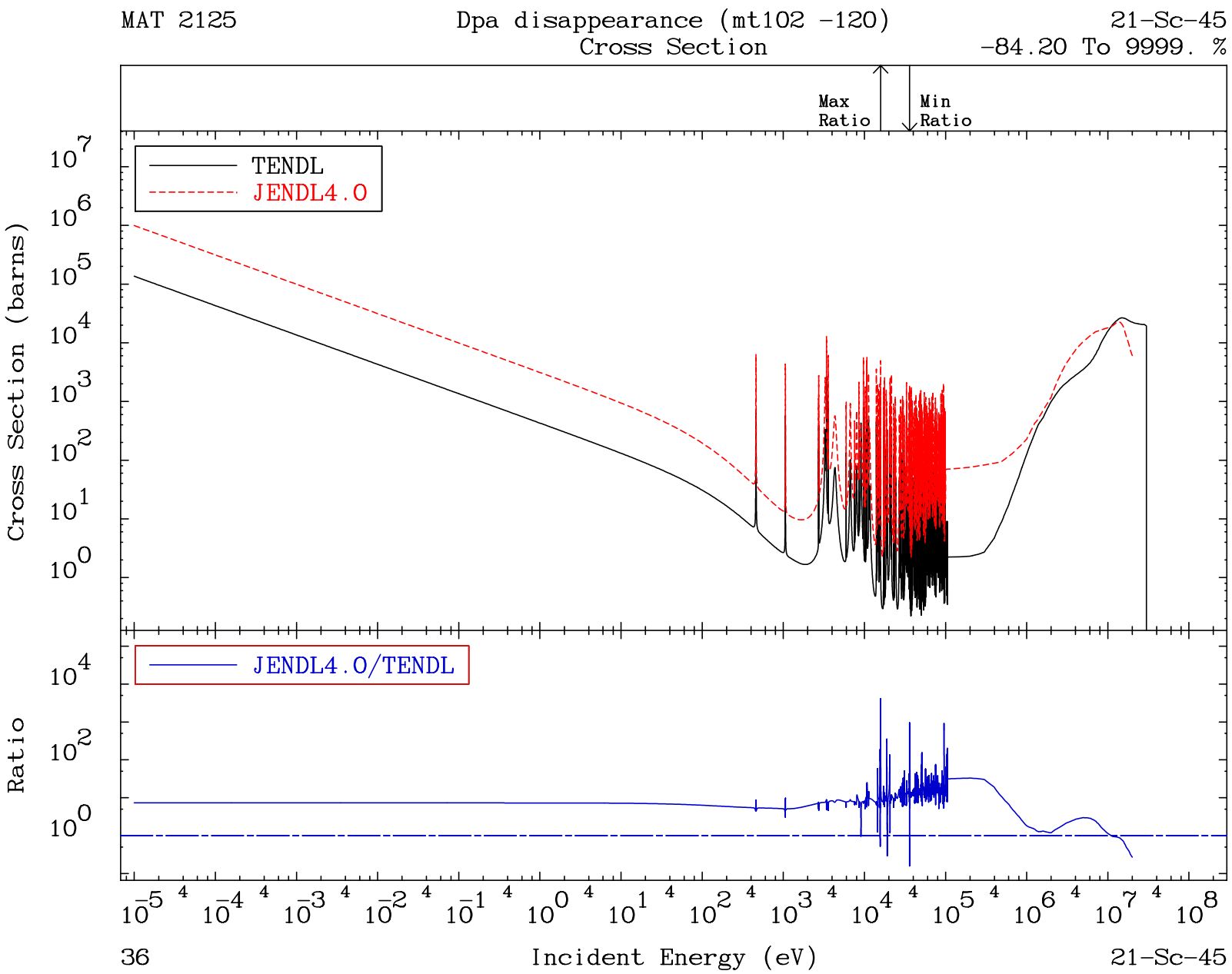

MAT 2125
Total photon (eV-barns)
Cross Section
21-Sc-45
9999. To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (Giga-barns)
14
12
10
8
6
4
2
0
JENDL4.0/TENDL
Ratio
10^8
10^6
10^4
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
31
Incident Energy (eV)
21-Sc-45

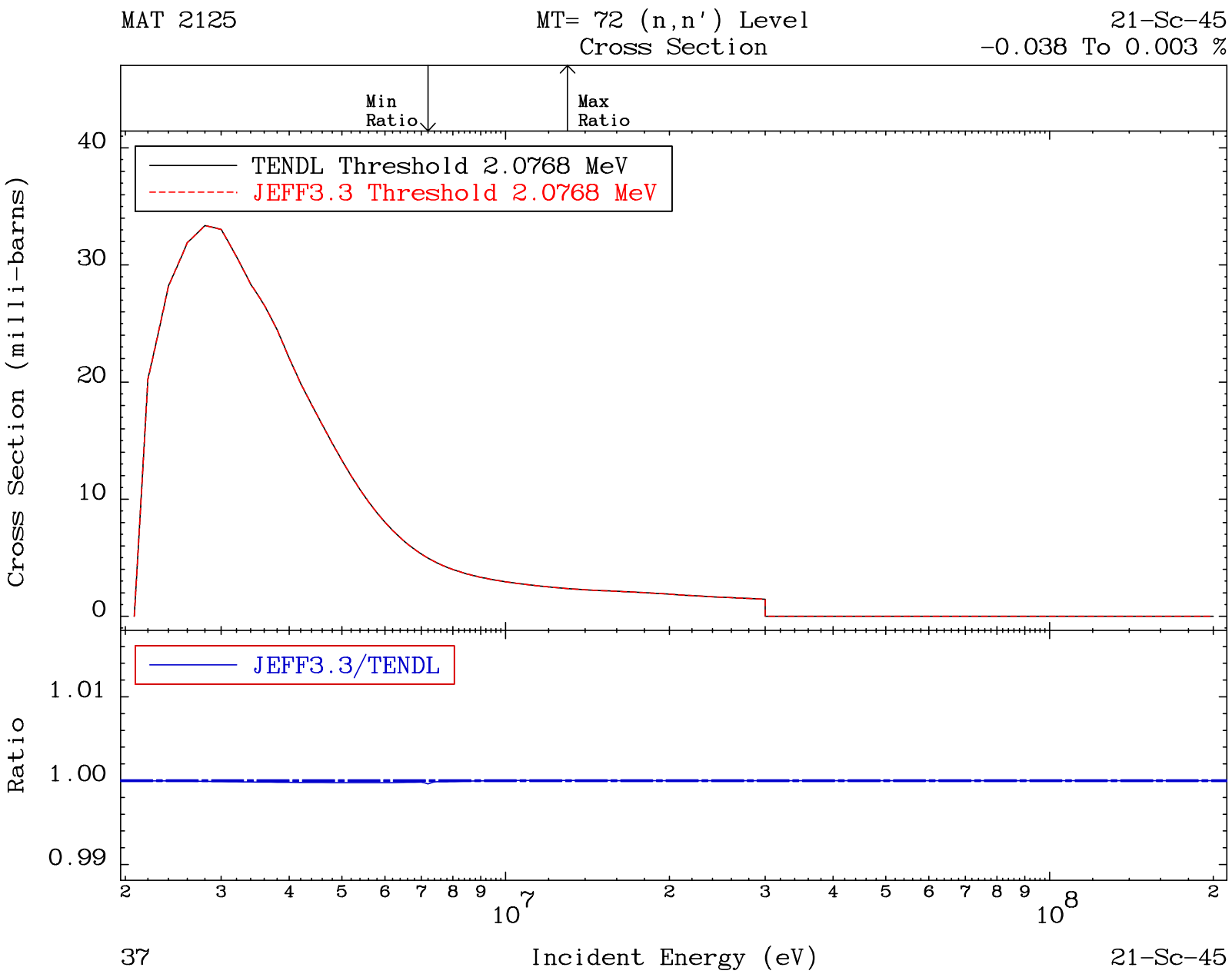

MAT 2125
Total kinematic kerma (high limit)
Cross Section
21-Sc-45
-93.48 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
32
21-Sc-45

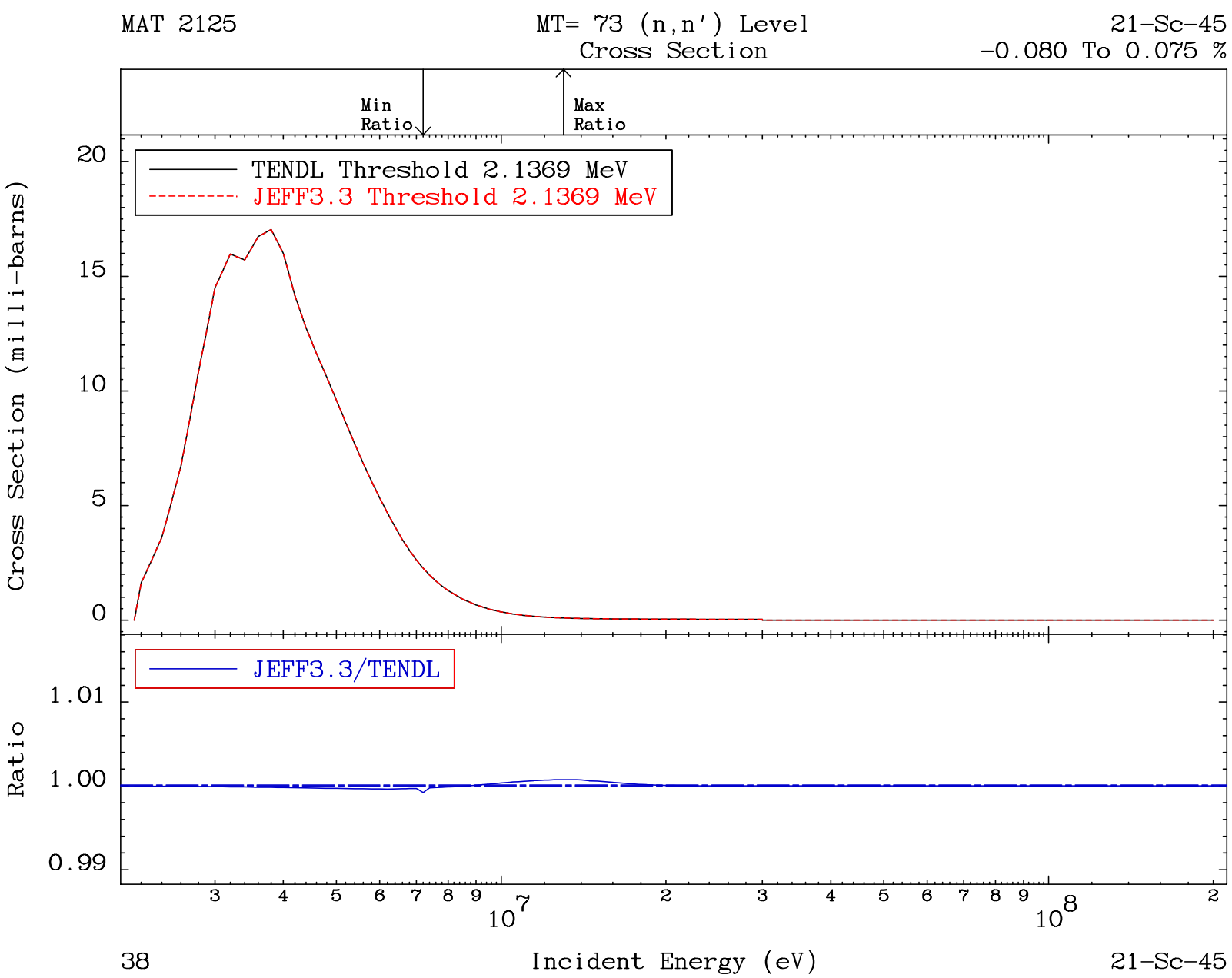

MAT 2125
Dpa total (eV-barns)
Cross Section
21-Sc-45
-93.47 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
33
21-Sc-45

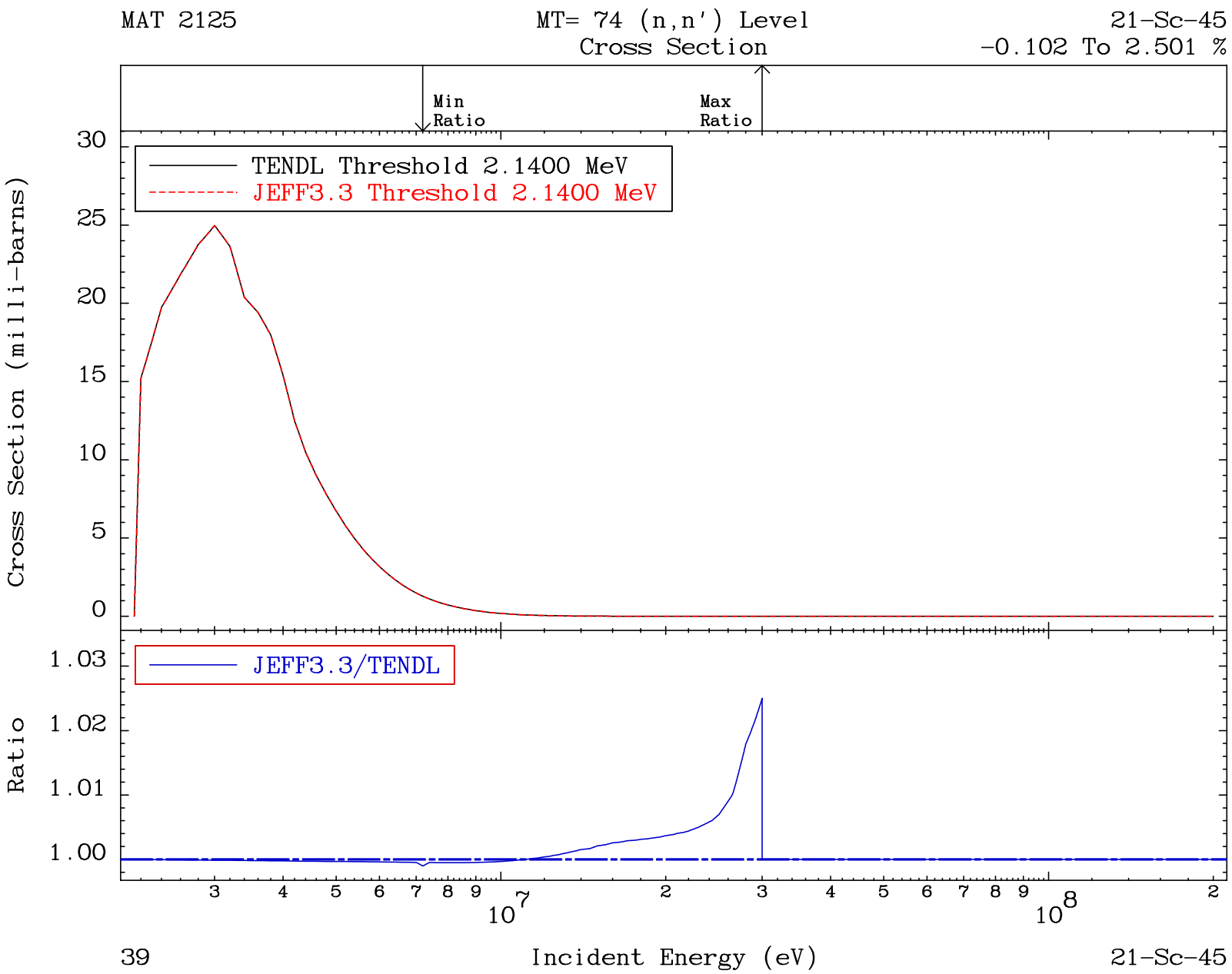

MAT 2125
Dpa elastic (mt2)
Cross Section
21-Sc-45
-94.08 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 300.00 eV
JENDL4.0 Threshold 285.43 eV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
34
21-Sc-45

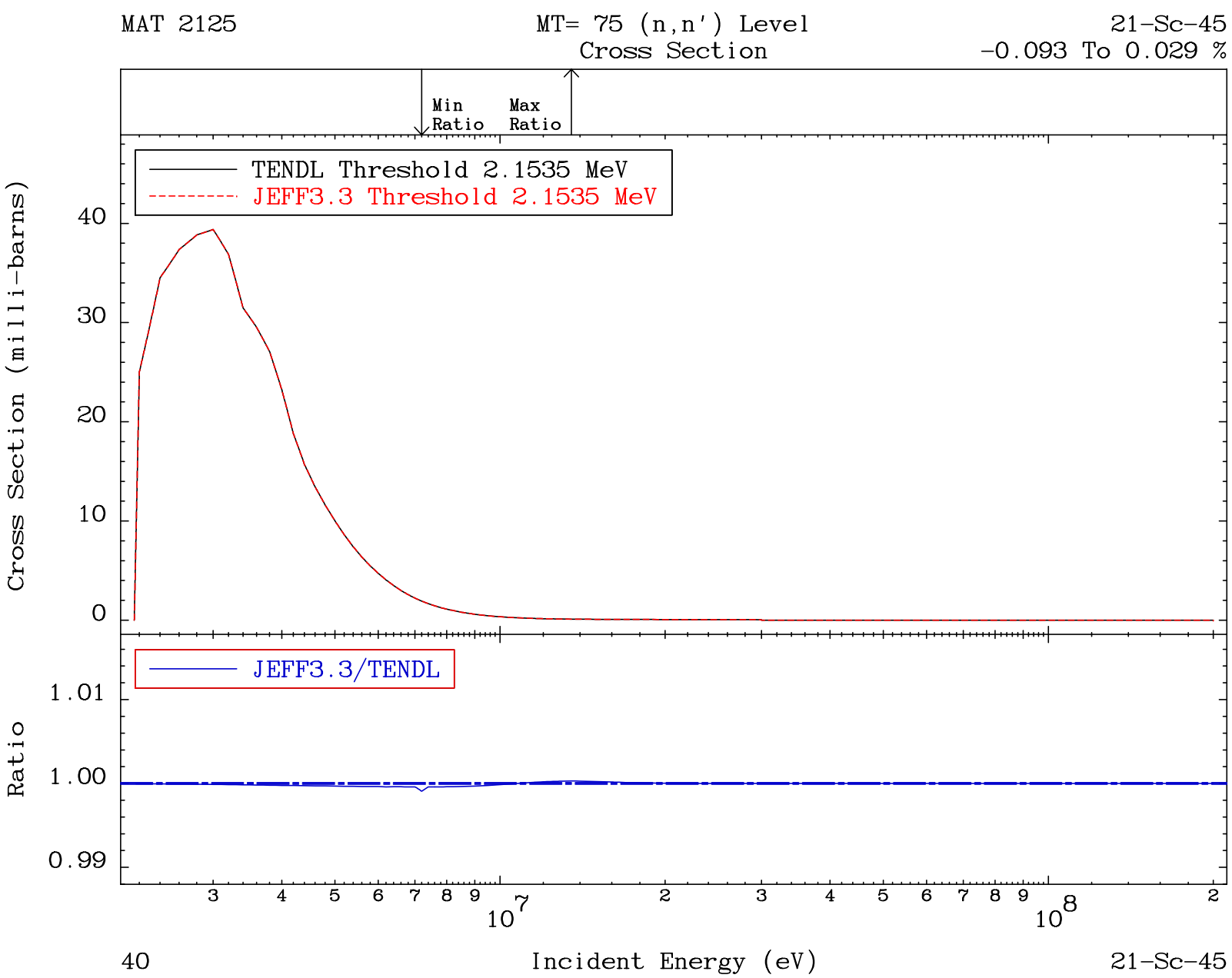

MAT 2125
Dpa inelastic (mt51-91)
Cross Section
21-Sc-45
-49.40 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 105.74 keV
JENDL4.0 Threshold 12.698 keV
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
35
21-Sc-45

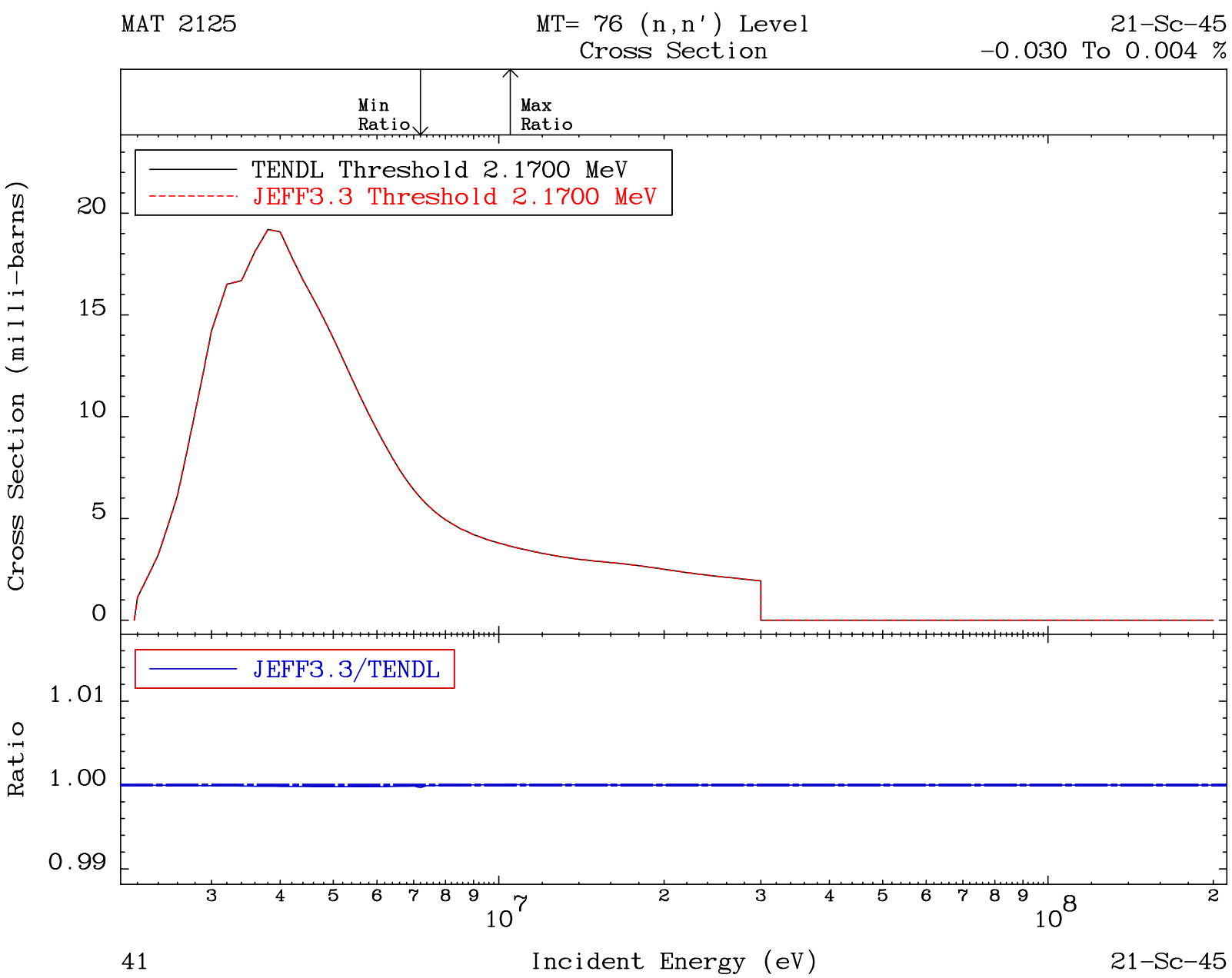

MAT 2125
Dpa disappearance (mt102 -120)
Cross Section
21-Sc-45
-84.20 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL4.0
Cross Section (barns)
JENDL4.0/TENDL
Ratio
Incident Energy (eV)
36
21-Sc-45

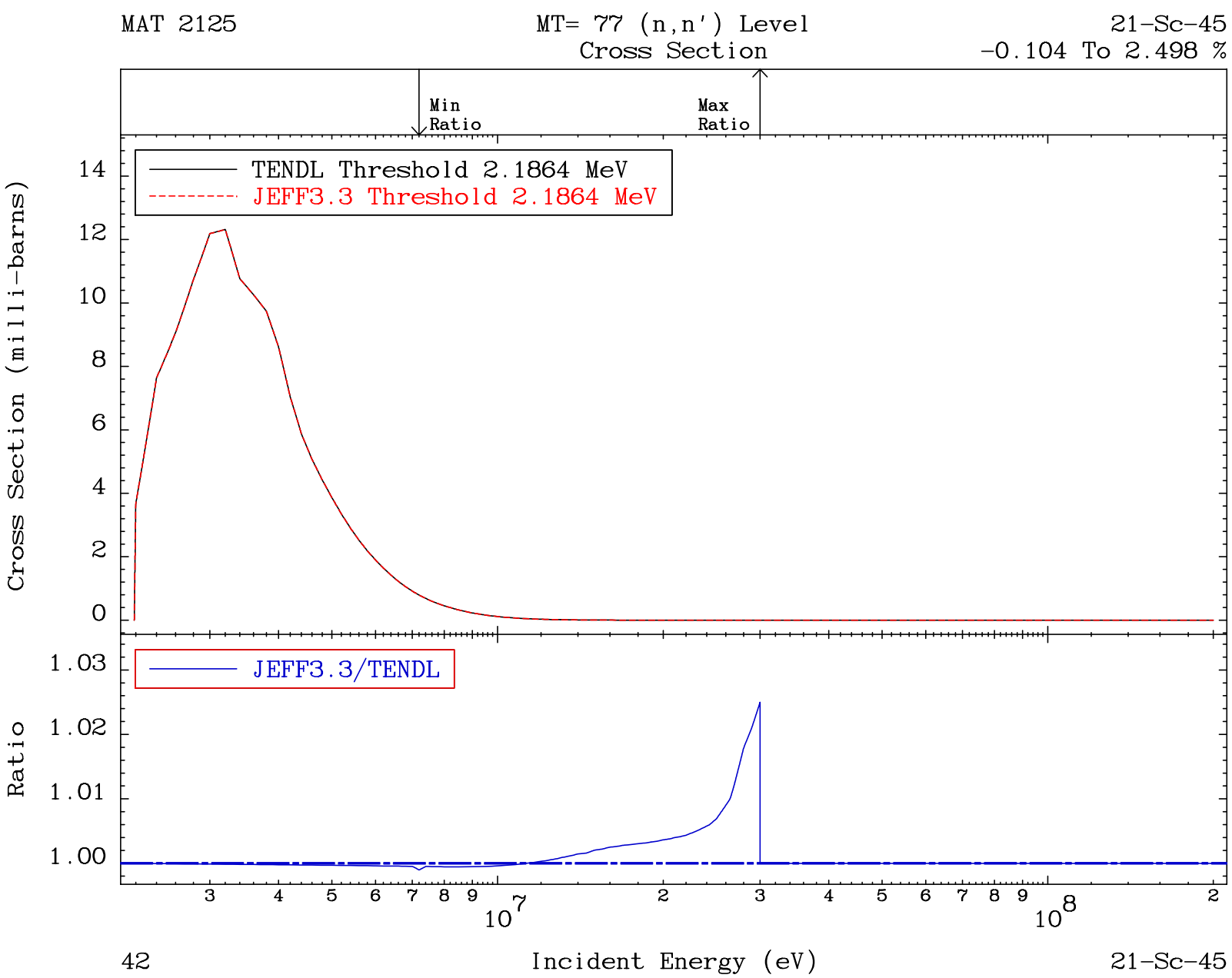

MAT 2125
MT= 72 (n,n') Level
Cross Section
21-Sc-45
-0.038 To 0.003 %
Min Ratio
Max Ratio
TENDL Threshold 2.0768 MeV
JEFF3.3 Threshold 2.0768 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
37
Incident Energy (eV)
21-Sc-45

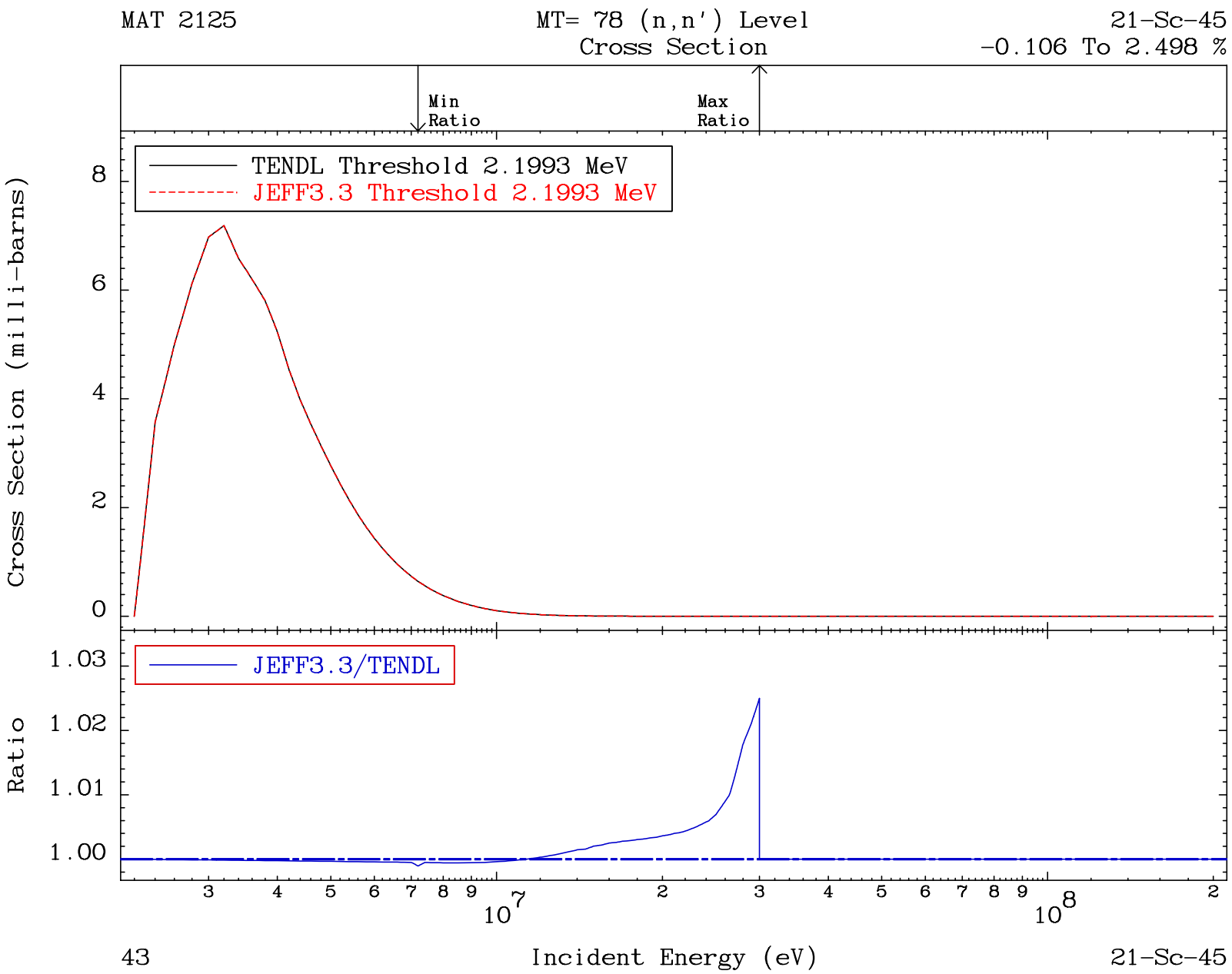

MAT 2125
MT= 73 (n,n') Level
Cross Section
21-Sc-45
-0.080 To 0.075 %
Min Ratio
Max Ratio
TENDL Threshold 2.1369 MeV
JEFF3.3 Threshold 2.1369 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
38
Incident Energy (eV)
21-Sc-45

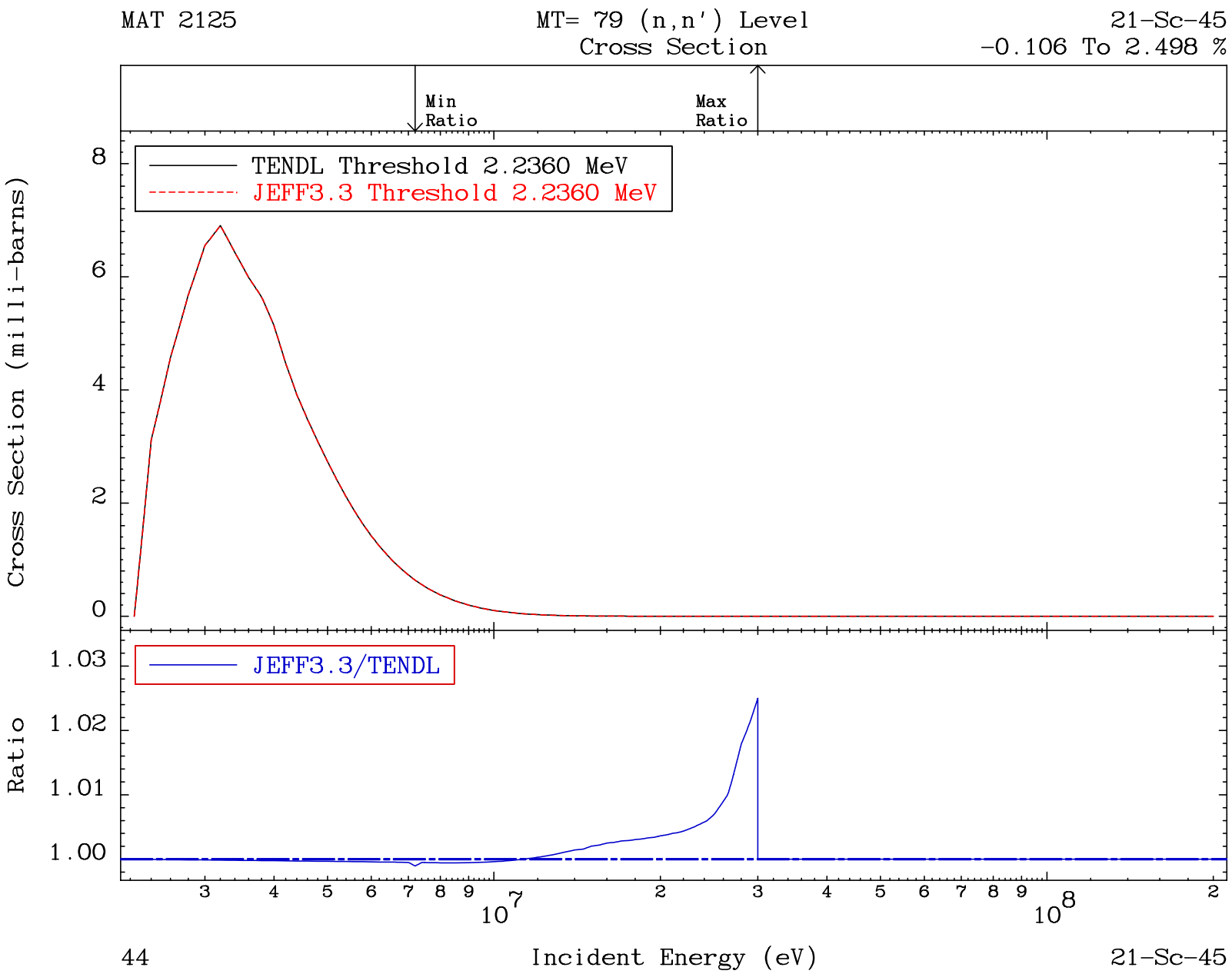

MAT 2125
MT= 74 (n,n') Level
Cross Section
21-Sc-45
-0.102 To 2.501 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1400 MeV
JEFF3.3 Threshold 2.1400 MeV
Cross Section (milli-barns)
30
25
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.03
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
39
Incident Energy (eV)
21-Sc-45

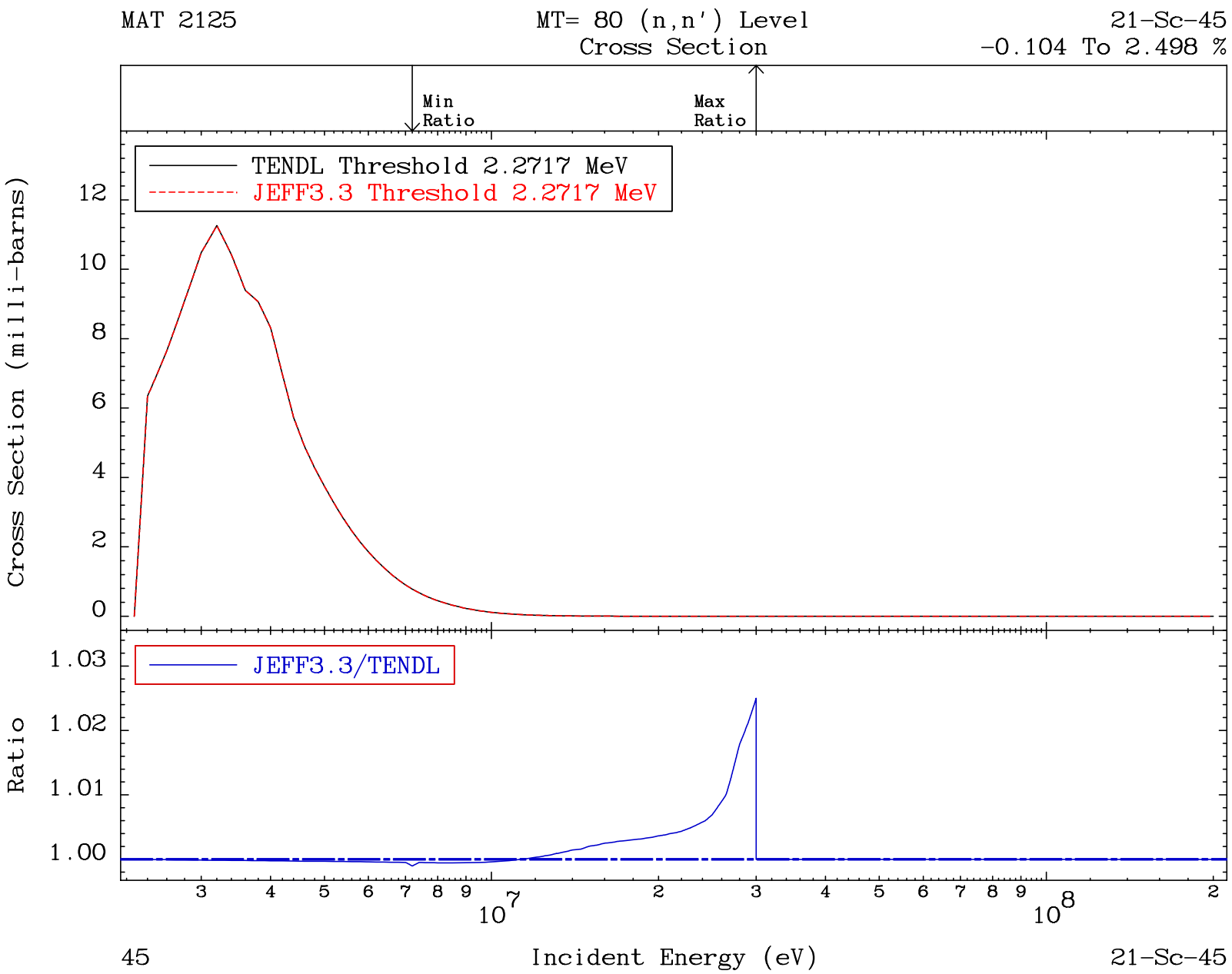

MAT 2125
MT= 75 (n,n') Level
Cross Section
21-Sc-45
-0.093 To 0.029 %
Min Ratio
Max Ratio
TENDL Threshold 2.1535 MeV
JEFF3.3 Threshold 2.1535 MeV
Cross Section (milli-barns)
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
40
Incident Energy (eV)
21-Sc-45

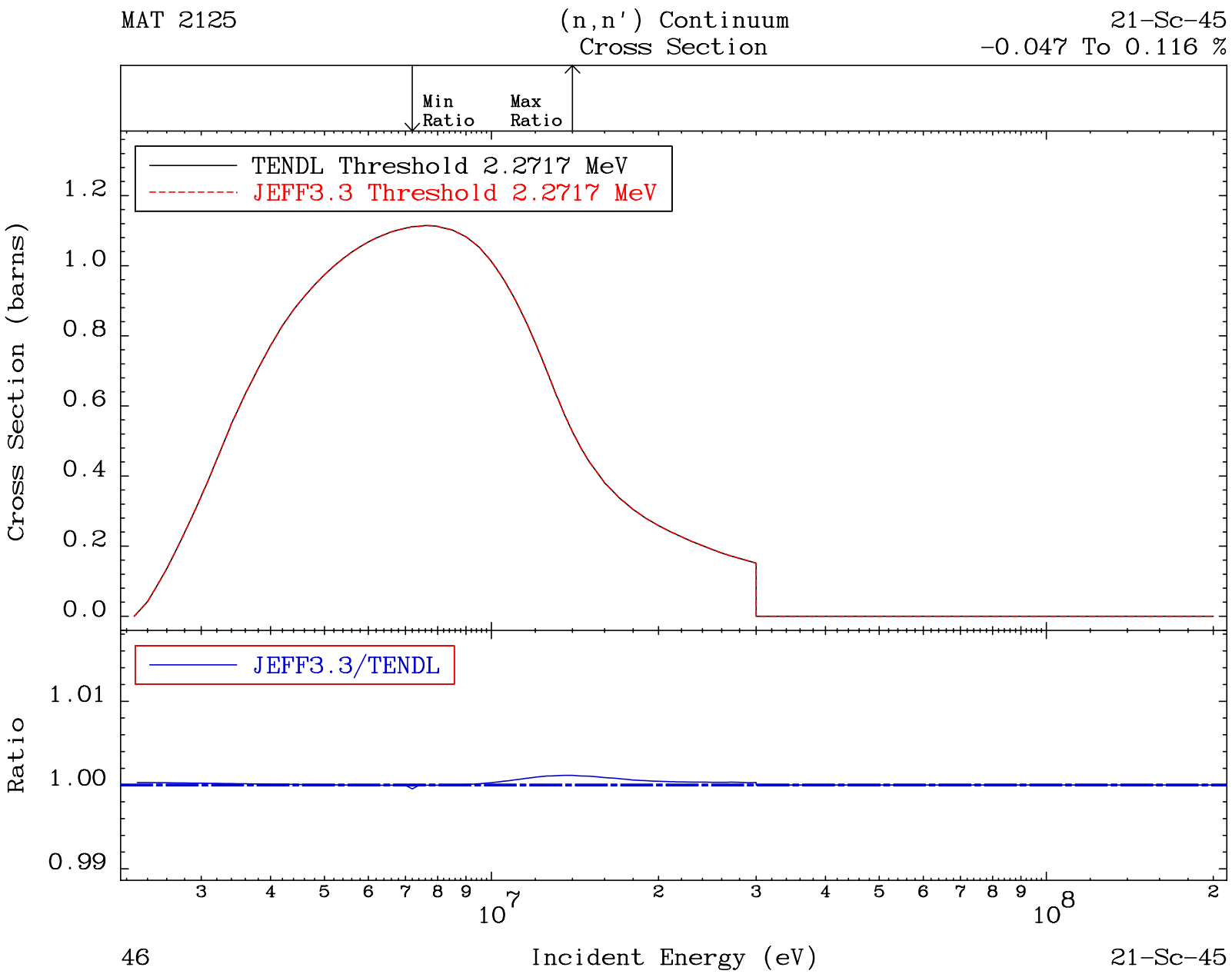

MAT 2125
MT= 76 (n,n') Level
Cross Section
21-Sc-45
-0.030 To 0.004 %
Min Ratio
Max Ratio
TENDL Threshold 2.1700 MeV
JEFF3.3 Threshold 2.1700 MeV
Cross Section (milli-barns)
20
15
10
5
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
41
Incident Energy (eV)
21-Sc-45

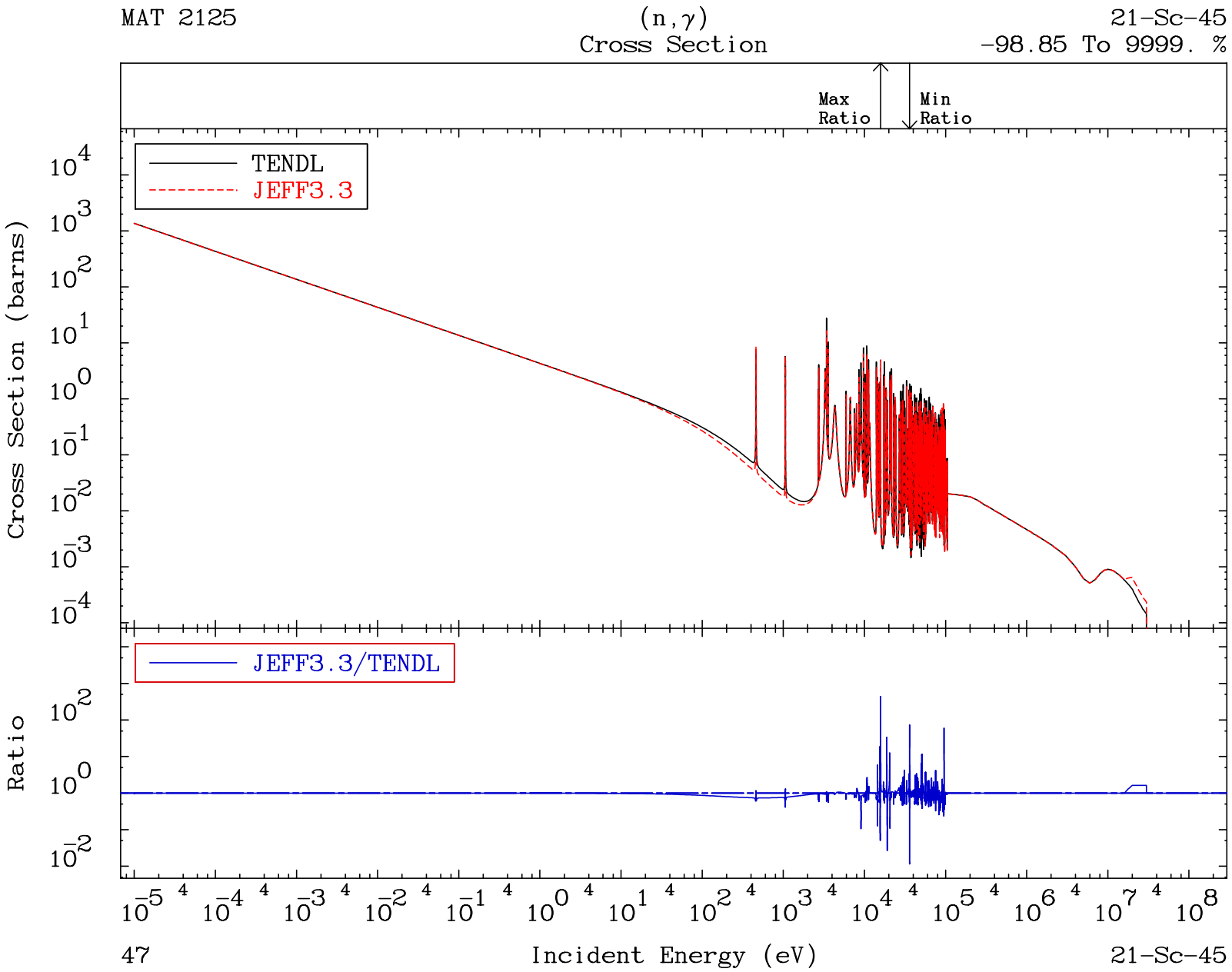

MAT 2125
MT= 77 (n,n') Level
Cross Section
21-Sc-45
-0.104 To 2.498 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1864 MeV
JEFF3.3 Threshold 2.1864 MeV
Cross Section (milli-barns)
14
12
10
8
6
4
2
0
JEFF3.3/TENDL
Ratio
1.03
1.02
1.01
1.00
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
42
Incident Energy (eV)
21-Sc-45

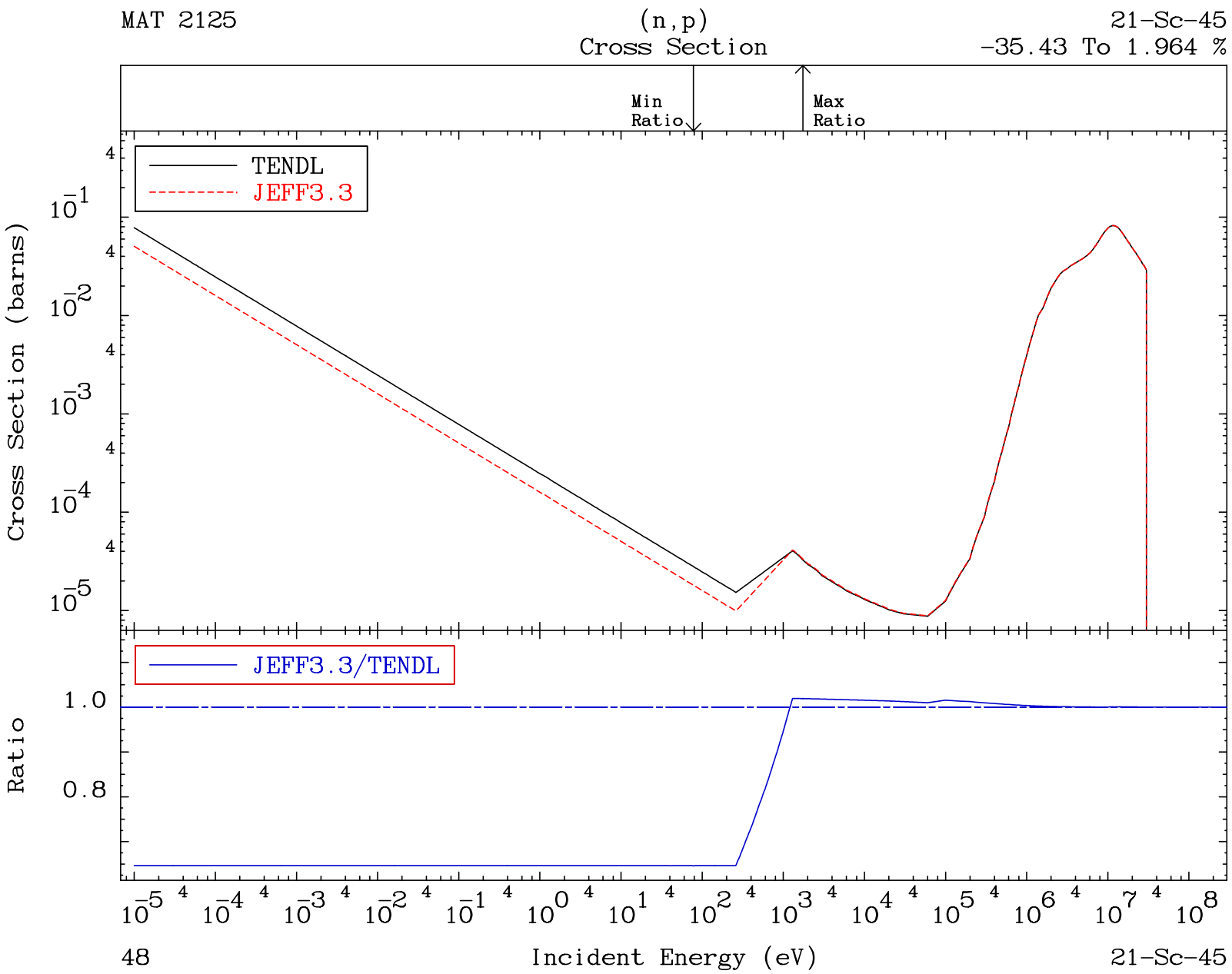

MAT 2125
MT= 78 (n,n') Level
Cross Section
21-Sc-45
-0.106 To 2.498 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.1993 MeV
JEFF3.3 Threshold 2.1993 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
1.03
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
43
Incident Energy (eV)
21-Sc-45

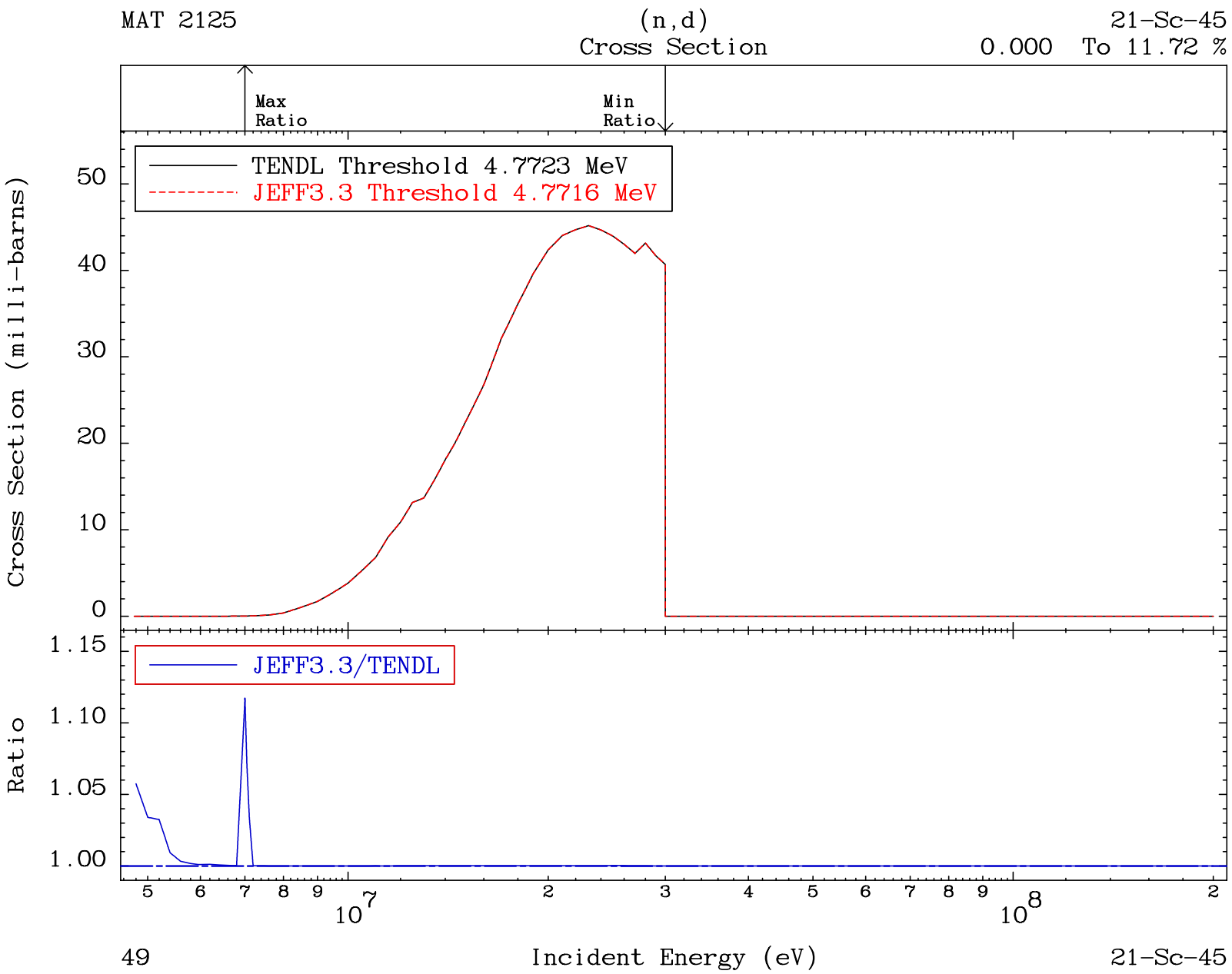

MAT 2125
MT= 79 (n,n') Level
Cross Section
21-Sc-45
-0.106 To 2.498 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.2360 MeV
JEFF3.3 Threshold 2.2360 MeV
Cross Section (milli-barns)
0
2
4
6
8
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
1.03
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
44
Incident Energy (eV)
21-Sc-45

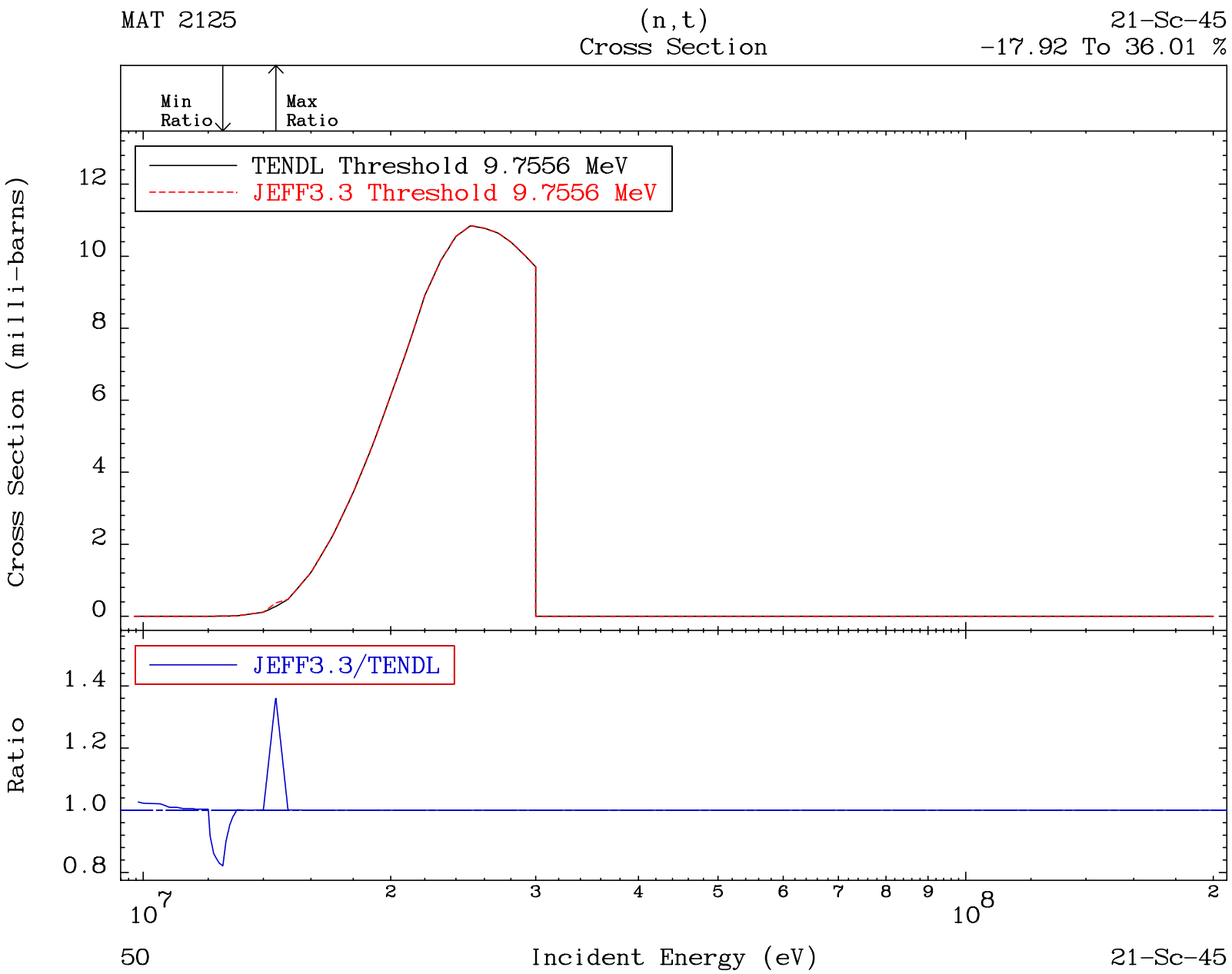

MAT 2125
MT= 80 (n,n') Level
Cross Section
21-Sc-45
-0.104 To 2.498 %
Min
Ratio
Max
Ratio
TENDL Threshold 2.2717 MeV
JEFF3.3 Threshold 2.2717 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
1.03
3 4 5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
45
Incident Energy (eV)
21-Sc-45

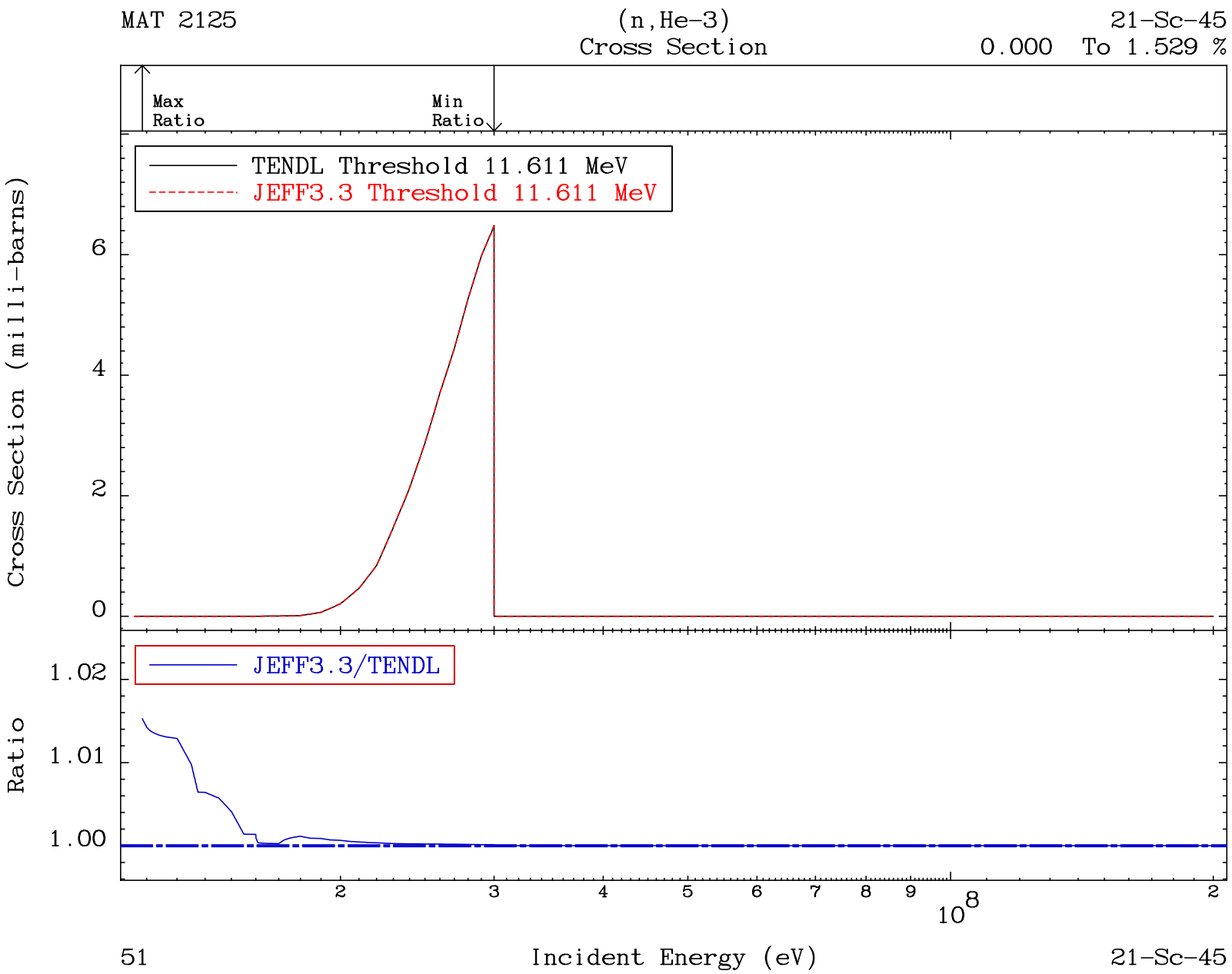

MAT 2125
(n,n') Continuum
Cross Section
21-Sc-45
-0.047 To 0.116 %
Min Ratio
Max Ratio
TENDL Threshold 2.2717 MeV
JEFF3.3 Threshold 2.2717 MeV
Cross Section (barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
46
Incident Energy (eV)
21-Sc-45

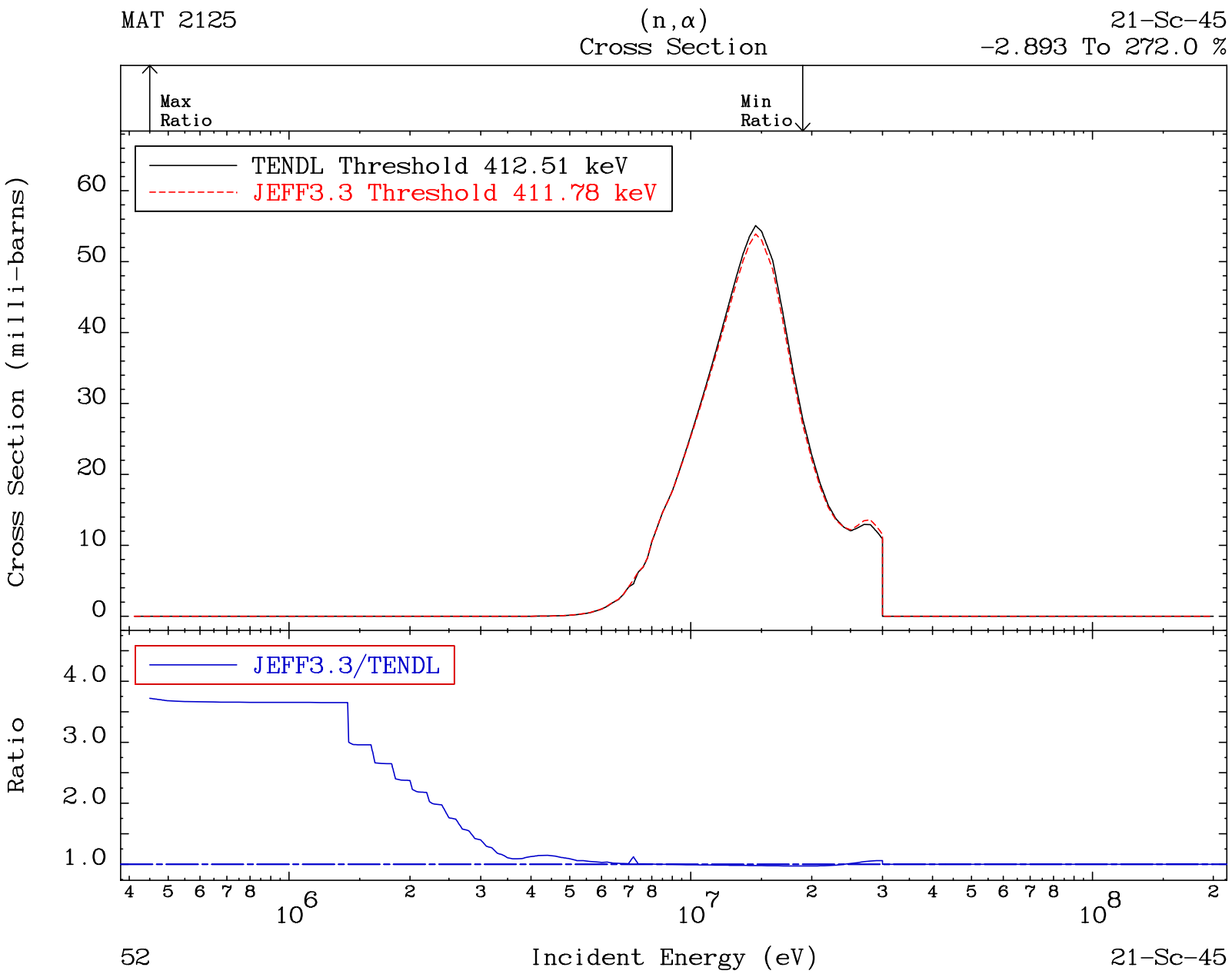

MAT 2125
(n,γ)
Cross Section
21-Sc-45
-98.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
47
21-Sc-45

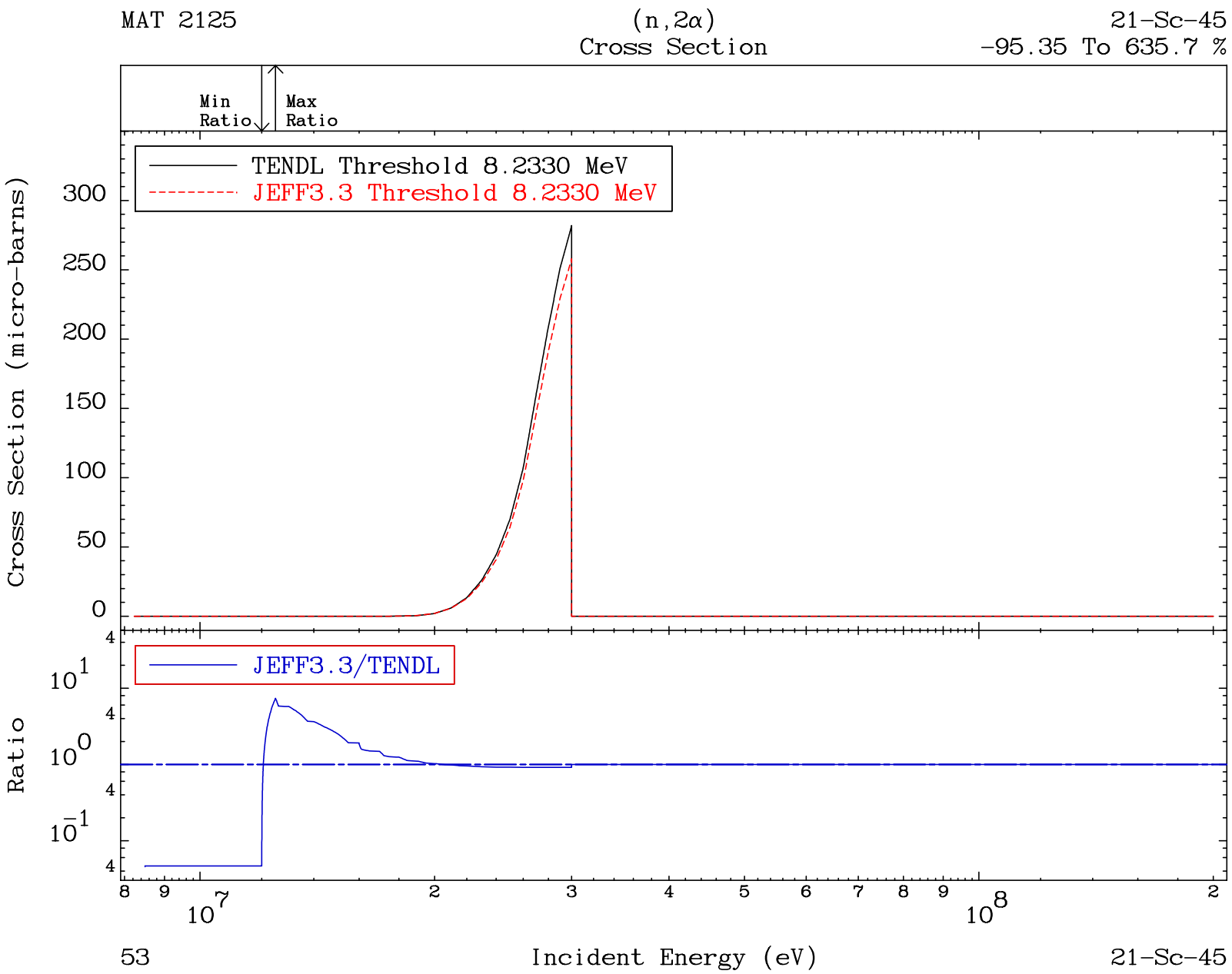

MAT 2125
(n,p)
Cross Section
21-Sc-45
-35.43 To 1.964 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
1.0
0.8
48
Incident Energy (eV)
21-Sc-45

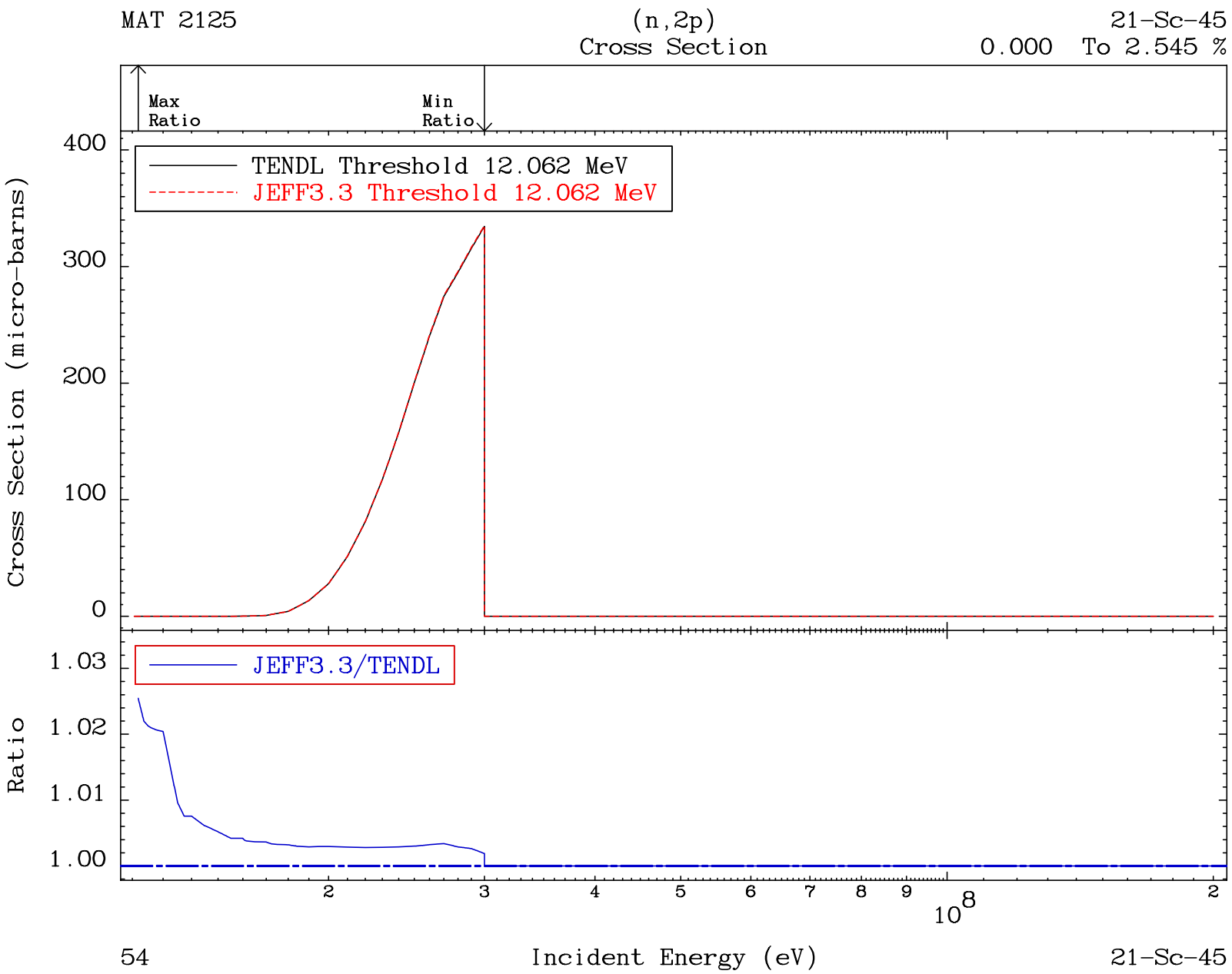

MAT 2125
(n,d)
Cross Section
21-Sc-45
0.000 To 11.72 %
Max Ratio
Min Ratio
TENDL Threshold 4.7723 MeV
JEFF3.3 Threshold 4.7716 MeV
Cross Section (milli-barns)
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
5 6 7 8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
49
Incident Energy (eV)
21-Sc-45

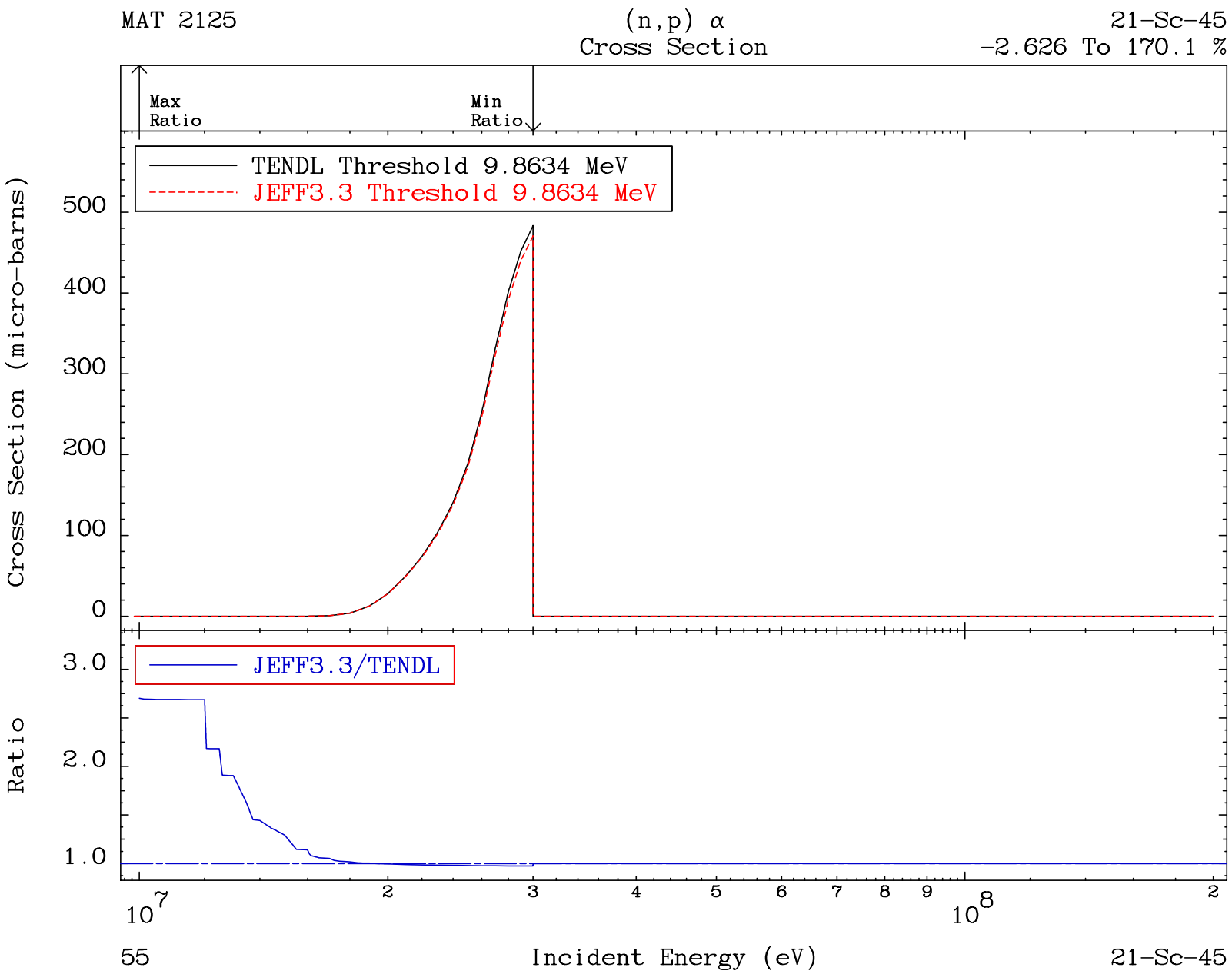

MAT 2125
(n,t)
Cross Section
21-Sc-45
-17.92 To 36.01 %
Min Ratio
Max Ratio
TENDL Threshold 9.7556 MeV
JEFF3.3 Threshold 9.7556 MeV
Cross Section (milli-barns)
0
2
4
6
8
10
12
JEFF3.3/TENDL
Ratio
0.8
1.0
1.2
1.4
10^7
2
3
4
5
6
7
8
9
10^8
2
50
Incident Energy (eV)
21-Sc-45

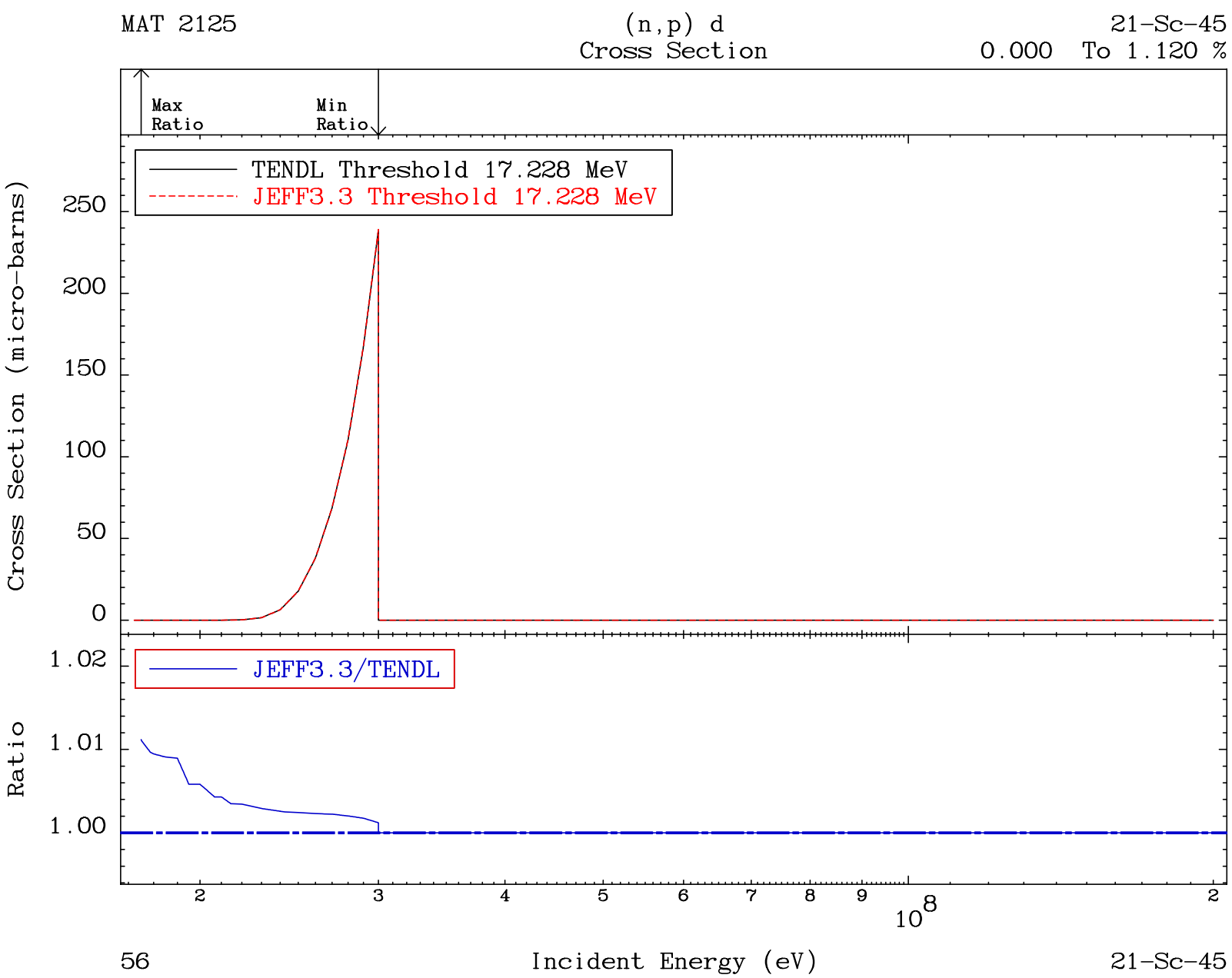

MAT 2125
(n,He-3)
Cross Section
21-Sc-45
0.000 To 1.529 %
Max Ratio
Min Ratio
TENDL Threshold 11.611 MeV
JEFF3.3 Threshold 11.611 MeV
Cross Section (milli-barns)
0
2
4
6
JEFF3.3/TENDL
Ratio
1.00
1.01
1.02
2
3
4
5
6
7
8
9
10^8
2
51
Incident Energy (eV)
21-Sc-45

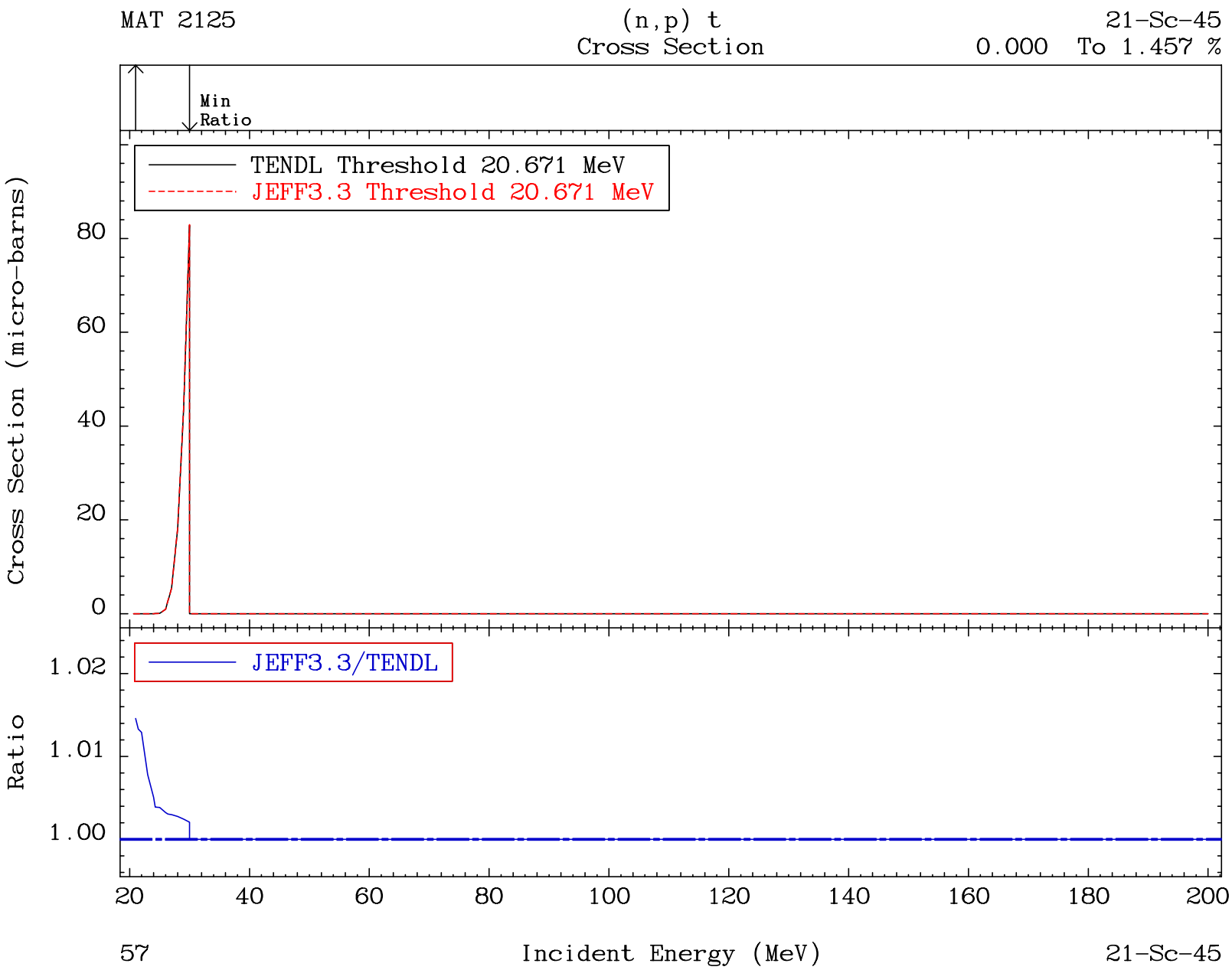

MAT 2125
(n,α)
Cross Section
21-Sc-45
-2.893 To 272.0 %
Max Ratio
Min Ratio
TENDL Threshold 412.51 keV
JEFF3.3 Threshold 411.78 keV
Cross Section (milli-barns)
60
50
40
30
20
10
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
52
Incident Energy (eV)
21-Sc-45

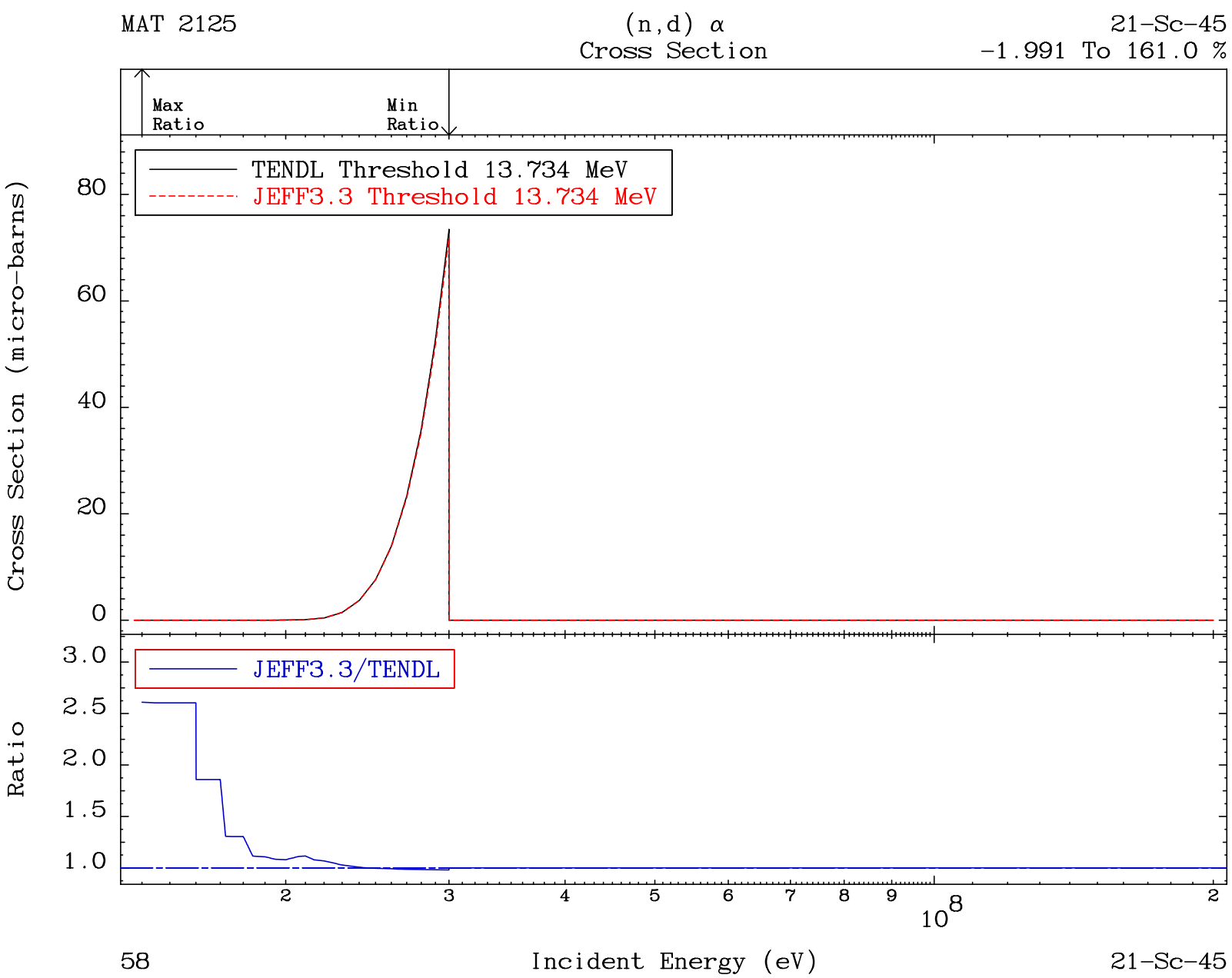

MAT 2125
(n,2α)
Cross Section
21-Sc-45
-95.35 To 635.7 %
Min Ratio
Max Ratio
TENDL Threshold 8.2330 MeV
JEFF3.3 Threshold 8.2330 MeV
Cross Section (micro-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
8 9 10^7 2 3 4 5 6 7 8 9 10^8 2
53
Incident Energy (eV)
21-Sc-45

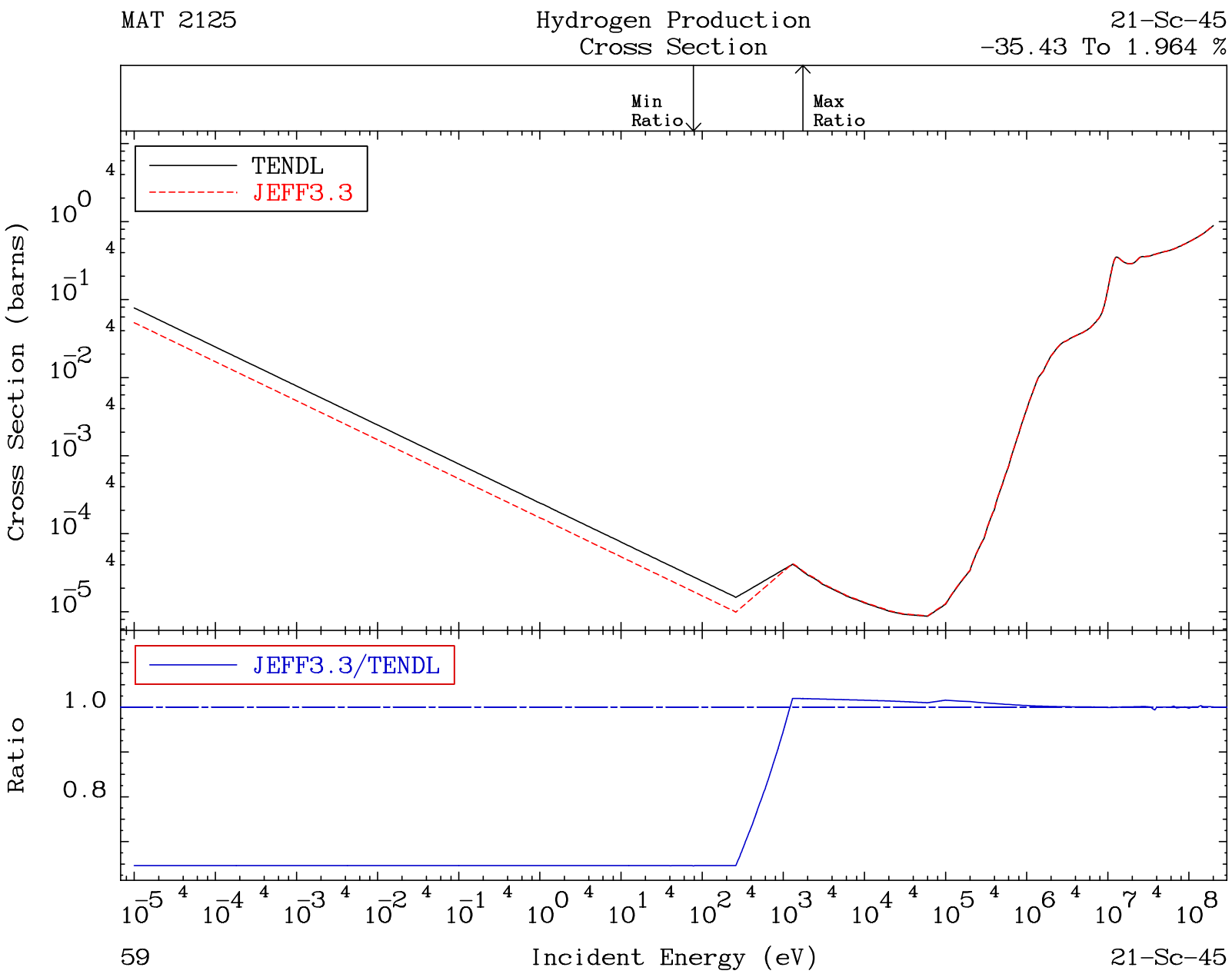

MAT 2125
(n,2p)
Cross Section
21-Sc-45
0.000 To 2.545 %
Max Ratio
Min Ratio
TENDL Threshold 12.062 MeV
JEFF3.3 Threshold 12.062 MeV
Cross Section (micro-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
54
Incident Energy (eV)
21-Sc-45

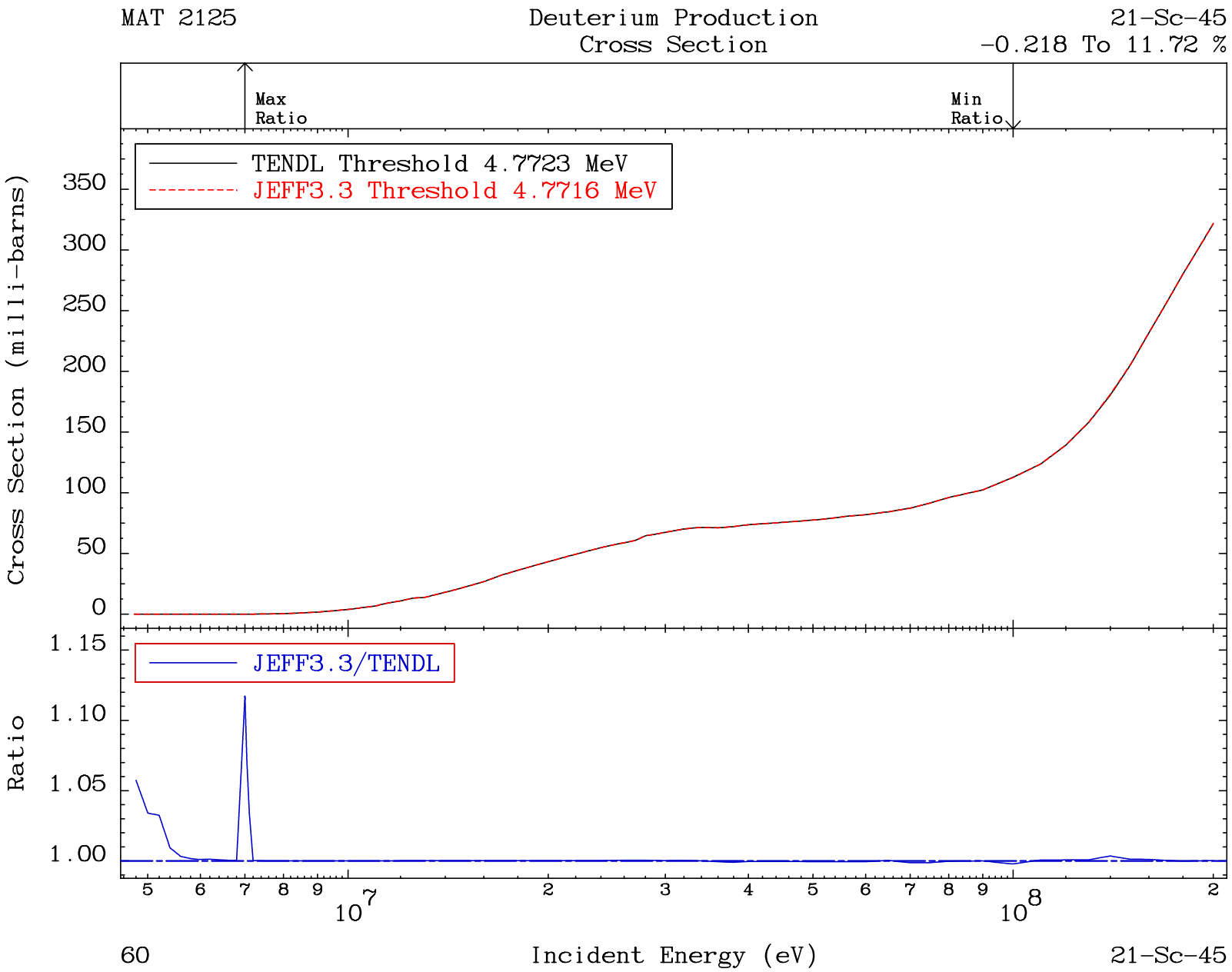

MAT 2125
(n,p) α
Cross Section
21-Sc-45
-2.626 To 170.1 %
Max Ratio
Min Ratio
TENDL Threshold 9.8634 MeV
JEFF3.3 Threshold 9.8634 MeV
Cross Section (micro-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
3.0
2.0
1.0
10^7
2
3
4
5
6
7
8
9
10^8
2
55
Incident Energy (eV)
21-Sc-45

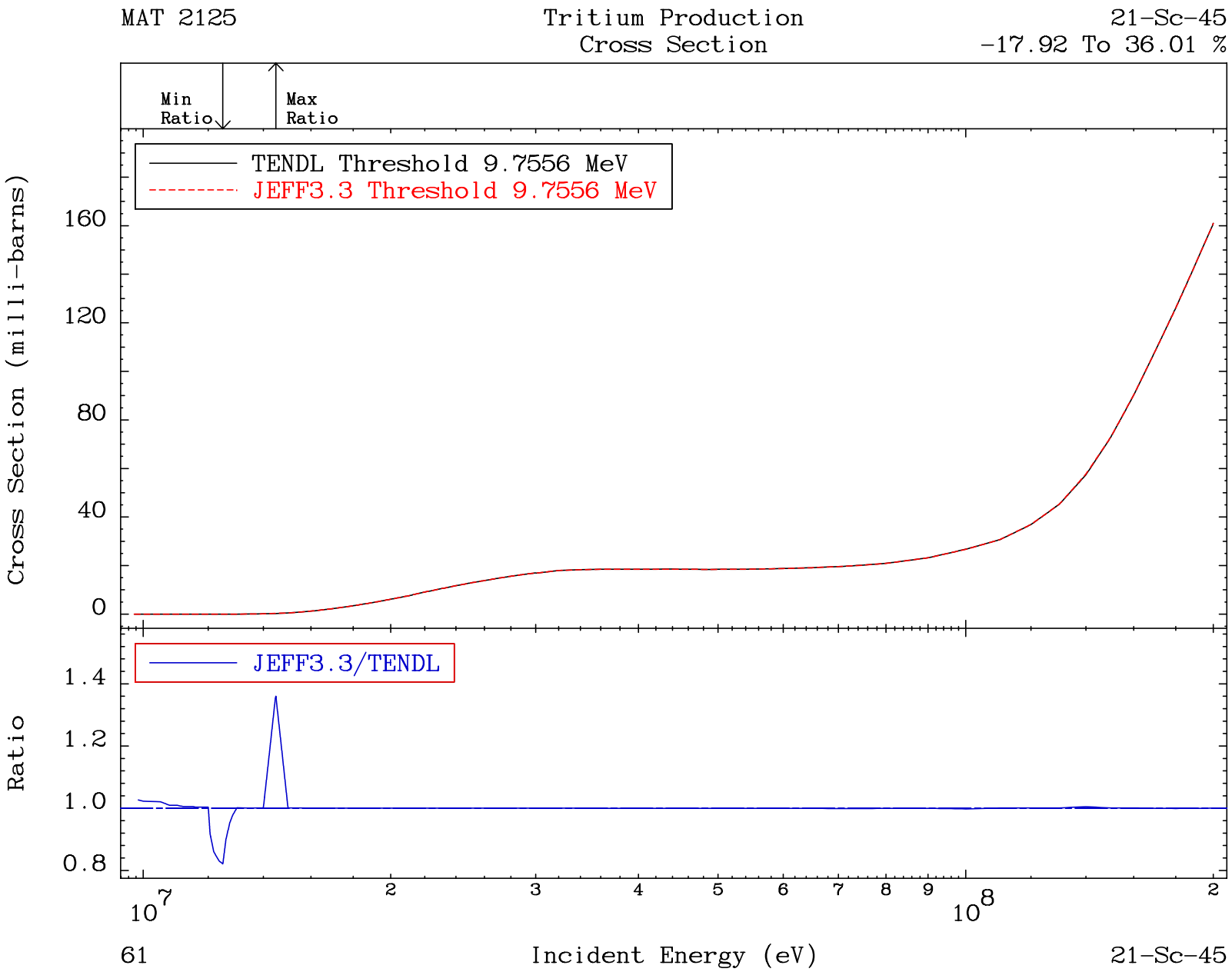

MAT 2125
(n,p) d
Cross Section
21-Sc-45
0.000 To 1.120 %
Max Ratio
Min Ratio
TENDL Threshold 17.228 MeV
JEFF3.3 Threshold 17.228 MeV
Cross Section (micro-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
56
Incident Energy (eV)
21-Sc-45

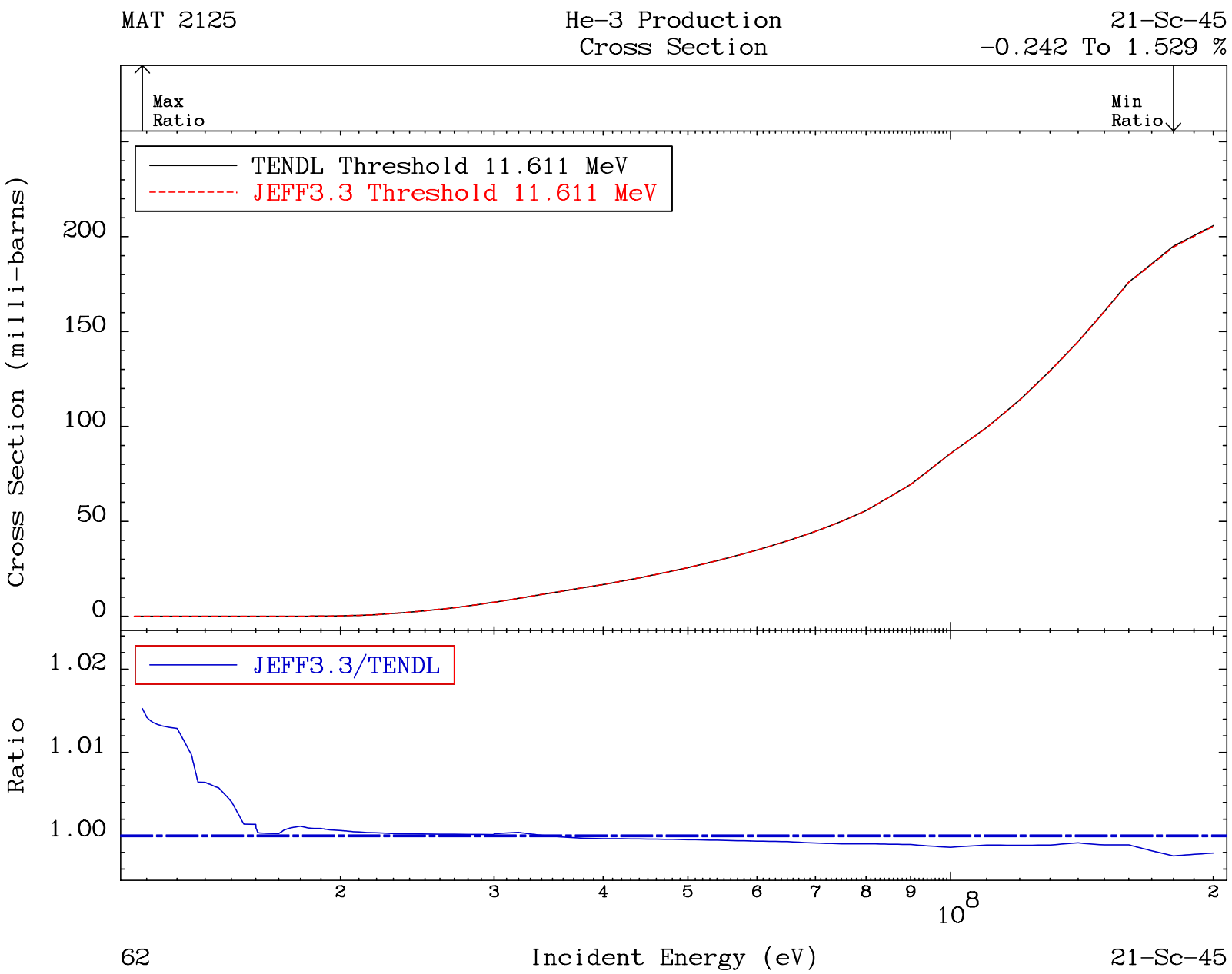

MAT 2125
(n,p) t
Cross Section
21-Sc-45
0.000 To 1.457 %
Min
Ratio
TENDL Threshold 20.671 MeV
JEFF3.3 Threshold 20.671 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
20
40
60
80
100
120
140
160
180
200
57
Incident Energy (MeV)
21-Sc-45

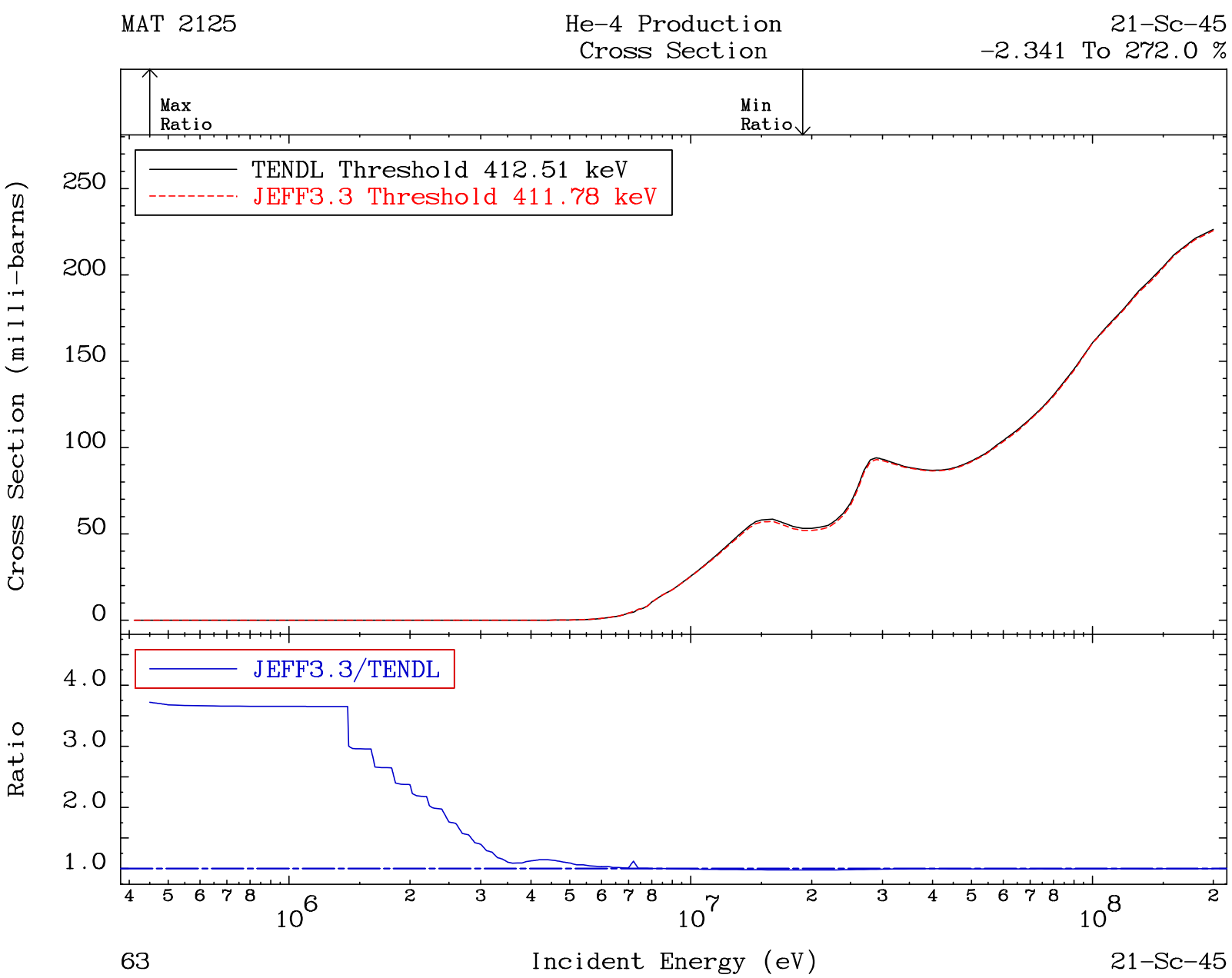

MAT 2125
(n,d) α
Cross Section
21-Sc-45
-1.991 To 161.0 %
Max Ratio
Min Ratio
TENDL Threshold 13.734 MeV
JEFF3.3 Threshold 13.734 MeV
Cross Section (micro-barns)
80
60
40
20
0
JEFF3.3/TENDL
Ratio
3.0
2.5
2.0
1.5
1.0
2
3
4
5
6
7
8
9
10^8
2
58
Incident Energy (eV)
21-Sc-45

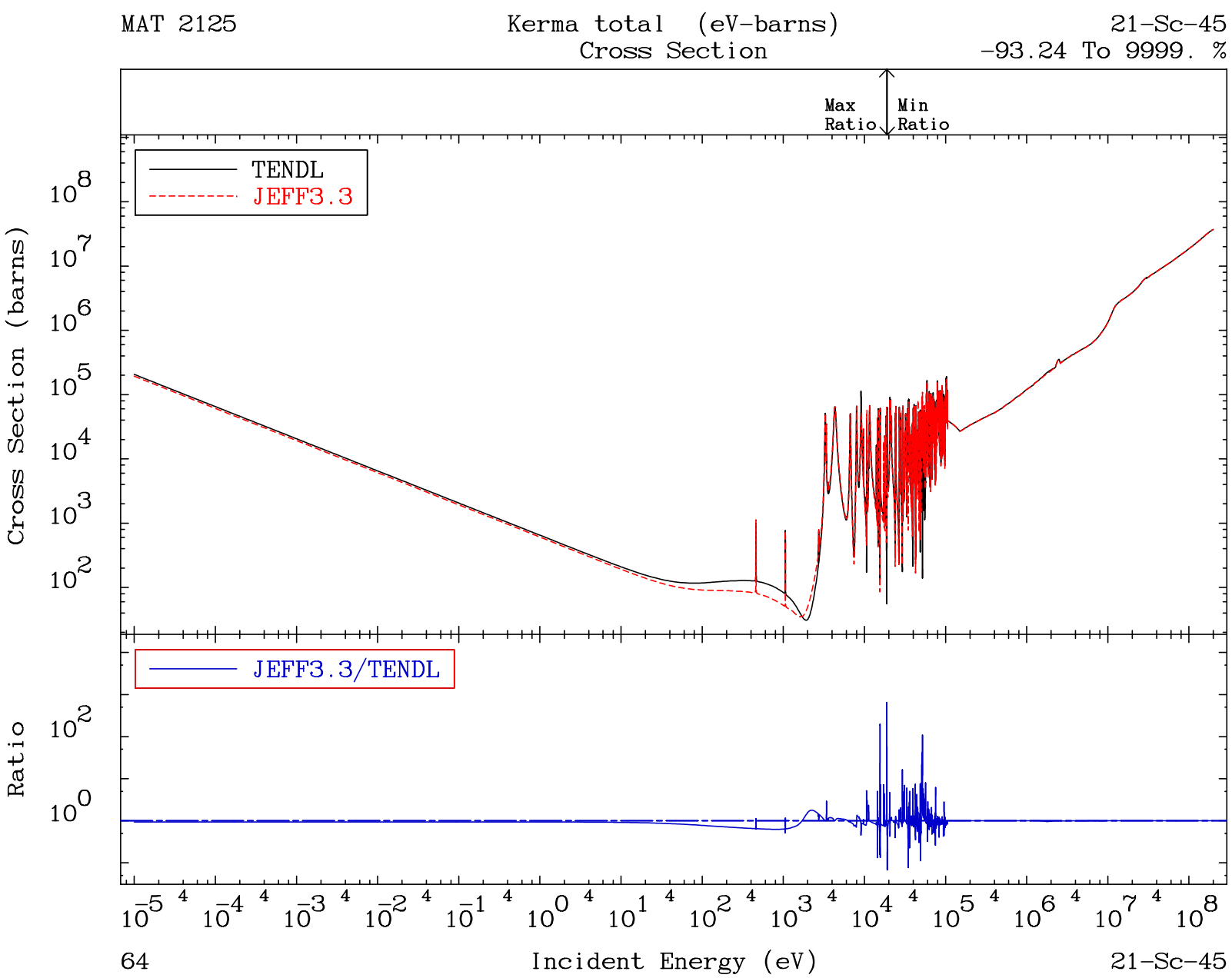

MAT 2125
Hydrogen Production
Cross Section
21-Sc-45
-35.43 To 1.964 %
Min Ratio
Max Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
1.0
0.8
Incident Energy (eV)
59
21-Sc-45

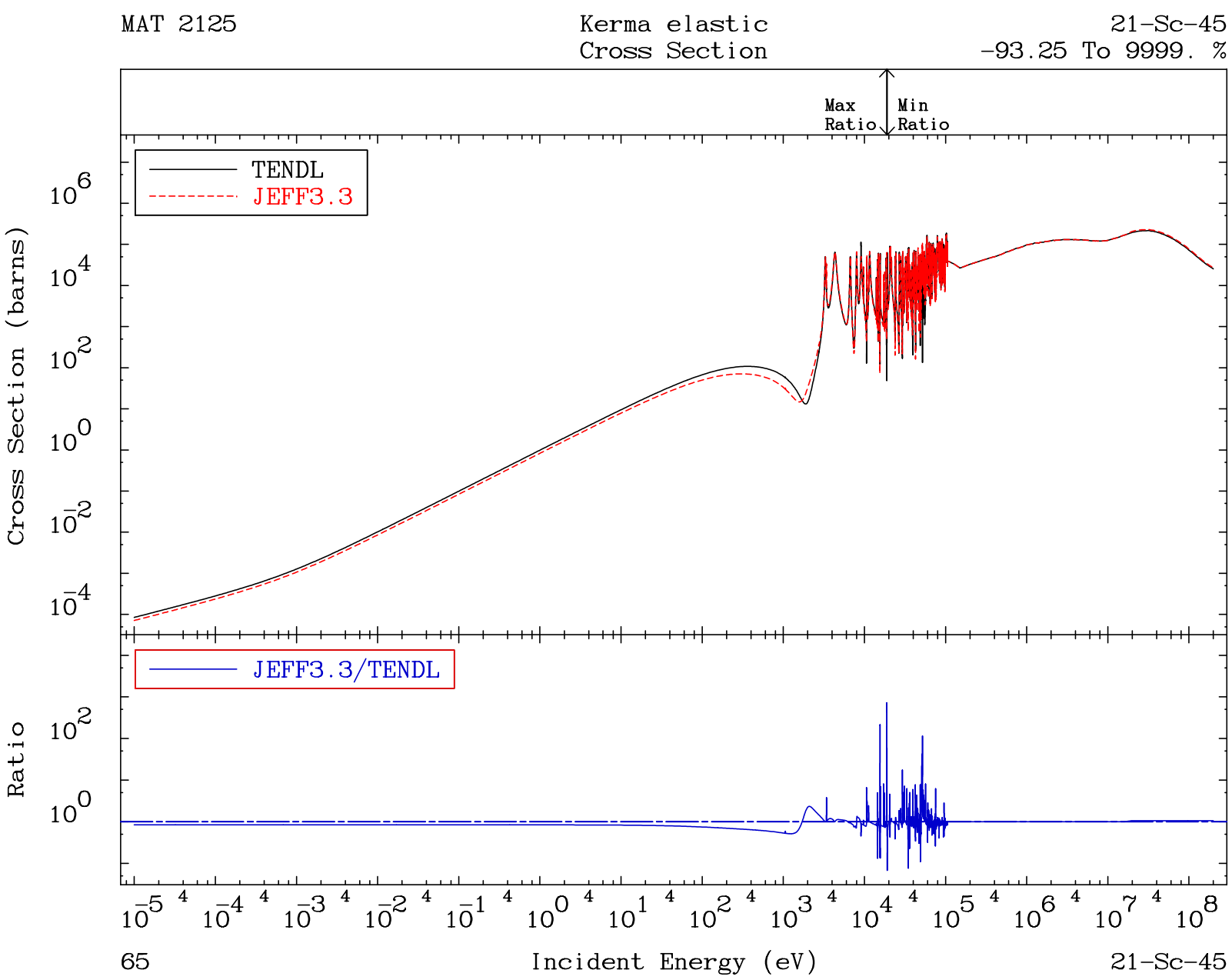

MAT 2125
Deuterium Production
Cross Section
21-Sc-45
-0.218 To 11.72 %
Max
Ratio
Min
Ratio
TENDL Threshold 4.7723 MeV
JEFF3.3 Threshold 4.7716 MeV
Cross Section (milli-barns)
350
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.15
1.10
1.05
1.00
5 6 7 8 9
10^7
2 3 4 5 6 7 8 9
10^8
2
60
Incident Energy (eV)
21-Sc-45

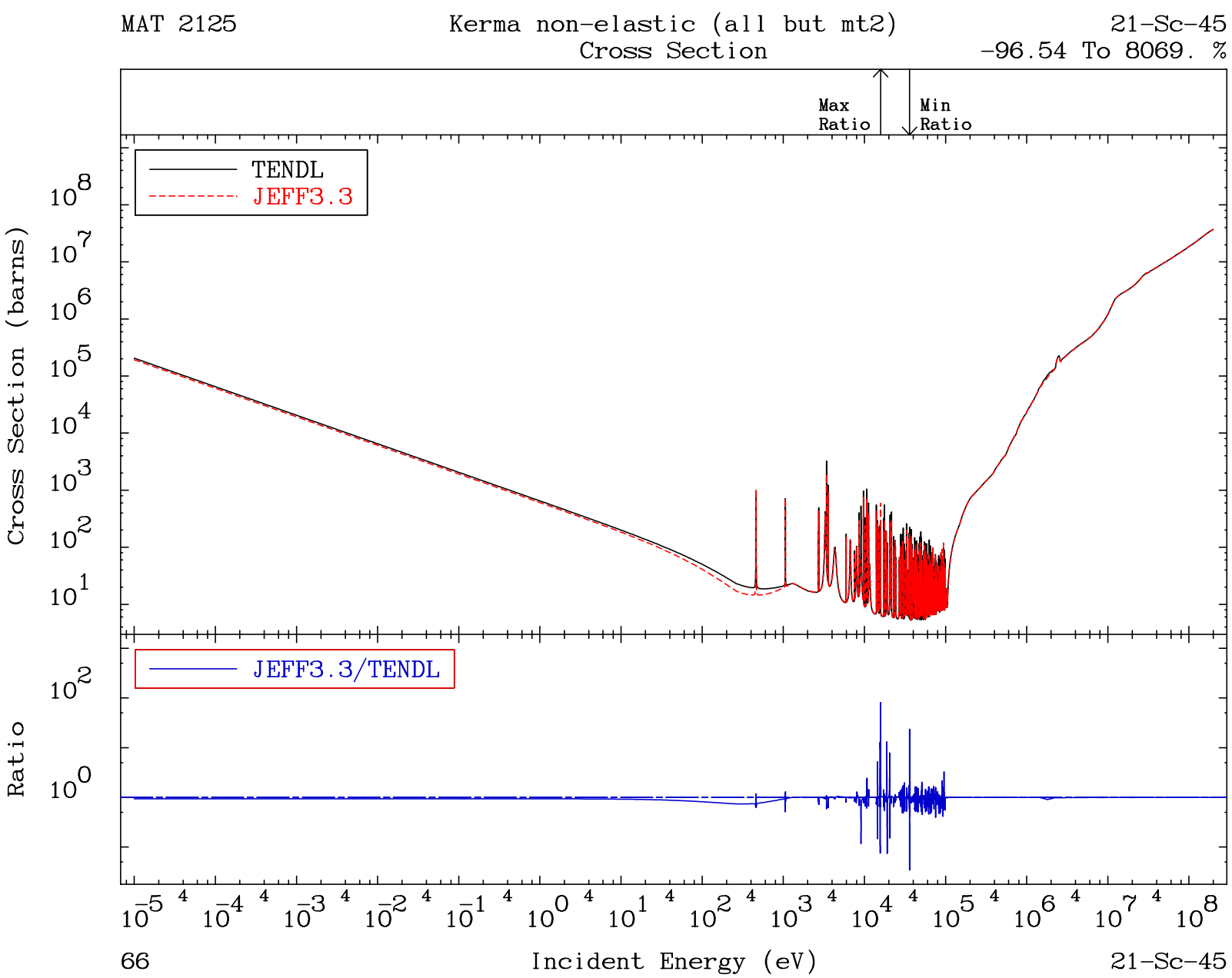

MAT 2125
Tritium Production
Cross Section
21-Sc-45
-17.92 To 36.01 %
Min Ratio
Max Ratio
TENDL Threshold 9.7556 MeV
JEFF3.3 Threshold 9.7556 MeV
Cross Section (milli-barns)
160
120
80
40
0
JEFF3.3/TENDL
Ratio
1.4
1.2
1.0
0.8
10^7
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
21-Sc-45

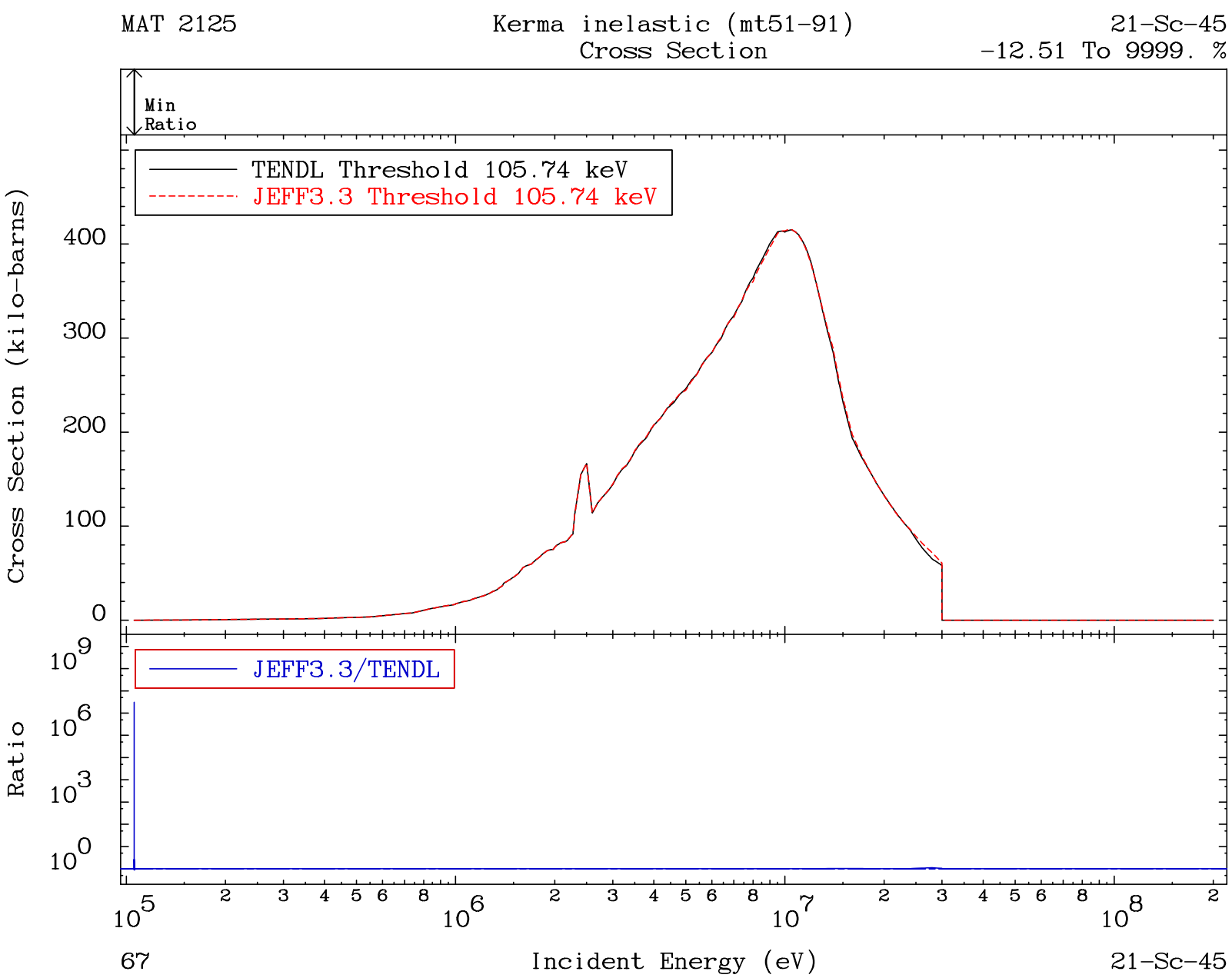

MAT 2125
He-3 Production
Cross Section
21-Sc-45
-0.242 To 1.529 %
Max Ratio
Min Ratio
TENDL Threshold 11.611 MeV
JEFF3.3 Threshold 11.611 MeV
Cross Section (milli-barns)
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
21-Sc-45

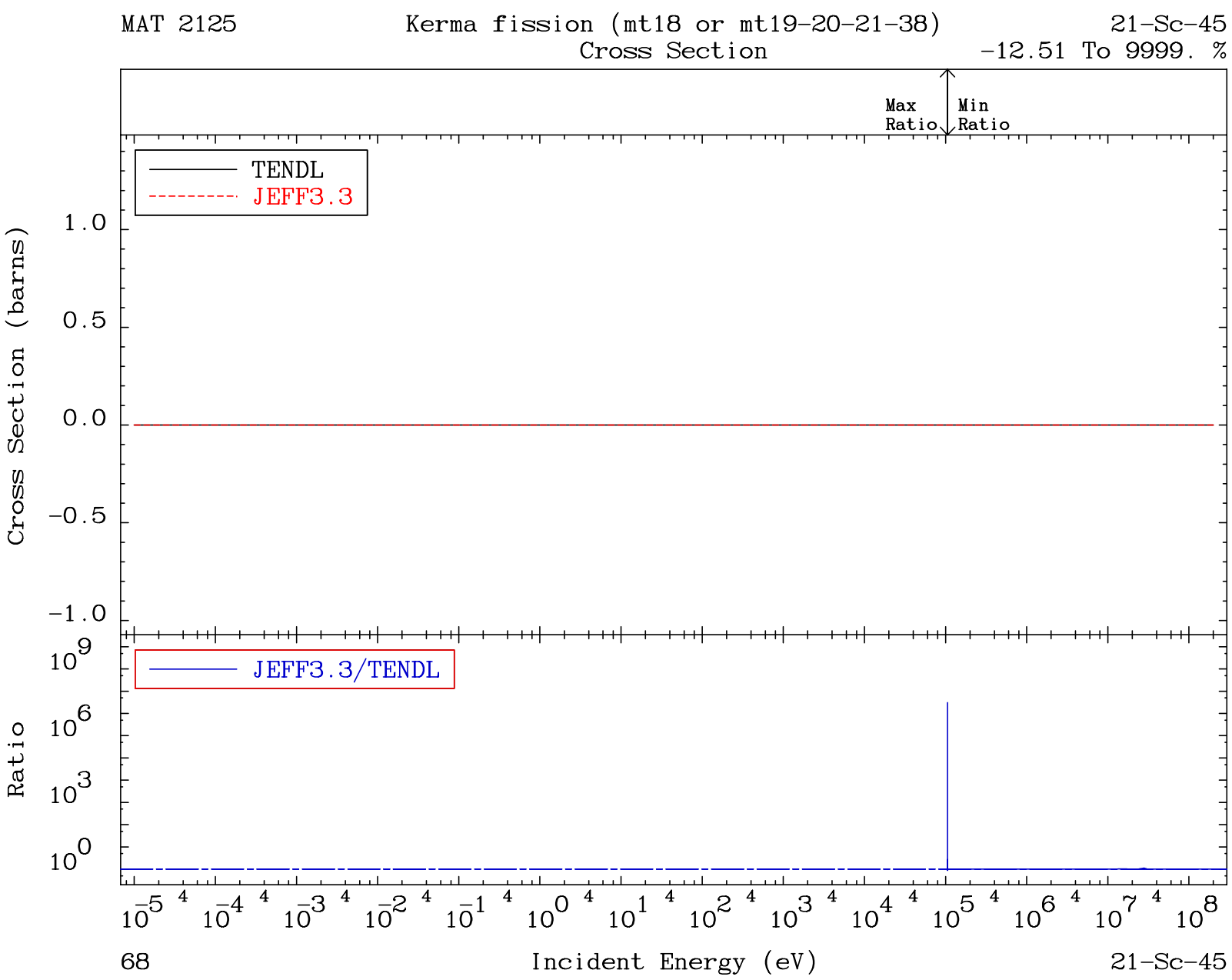

MAT 2125
He-4 Production
Cross Section
21-Sc-45
-2.341 To 272.0 %
Max Ratio
Min Ratio
TENDL Threshold 412.51 keV
JEFF3.3 Threshold 411.78 keV
Cross Section (milli-barns)
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
4.0
3.0
2.0
1.0
4 5 6 7 8
10^6
2 3 4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
63
Incident Energy (eV)
21-Sc-45

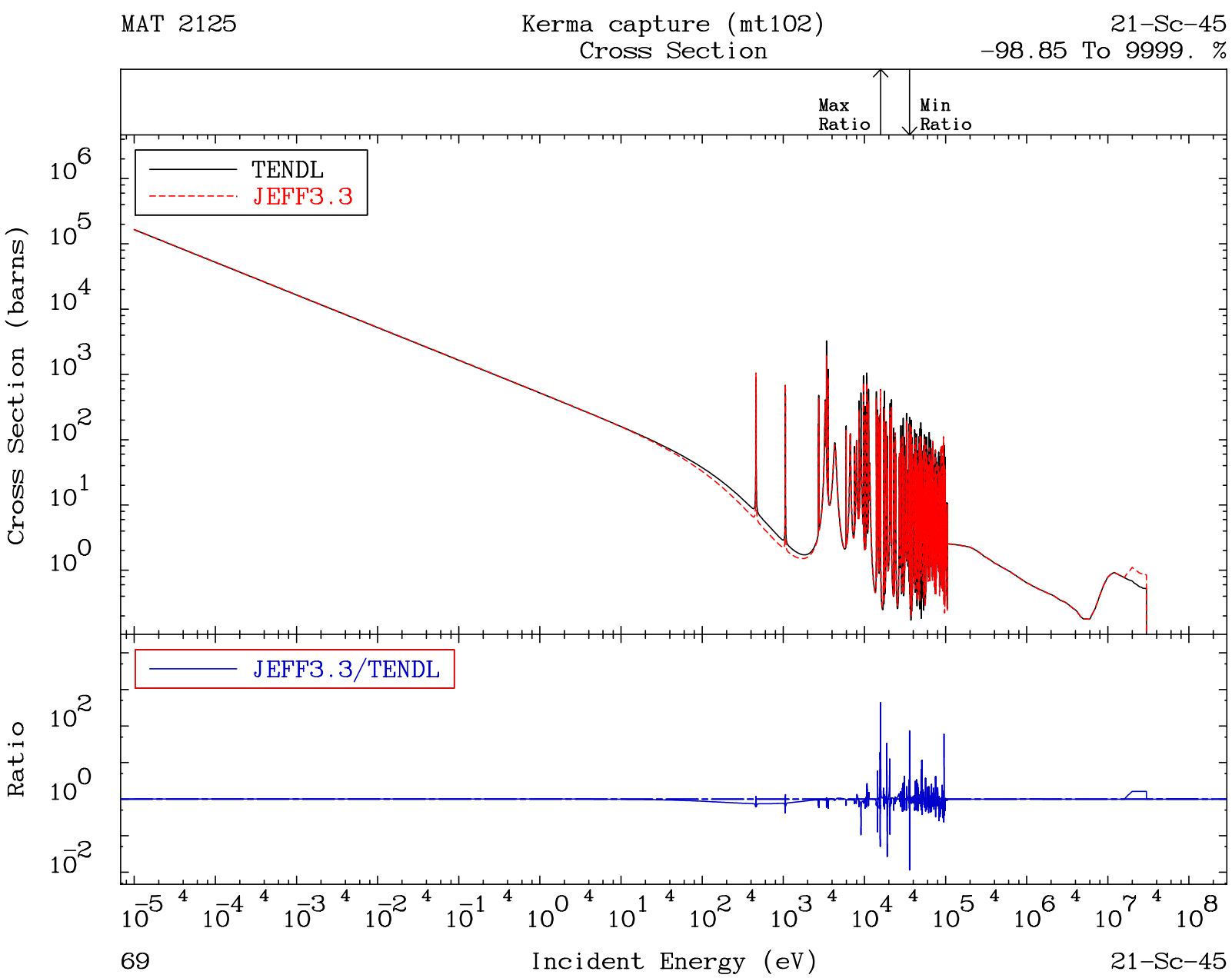

MAT 2125
Kerma total (eV-barns)
Cross Section
21-Sc-45
-93.24 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
64
21-Sc-45

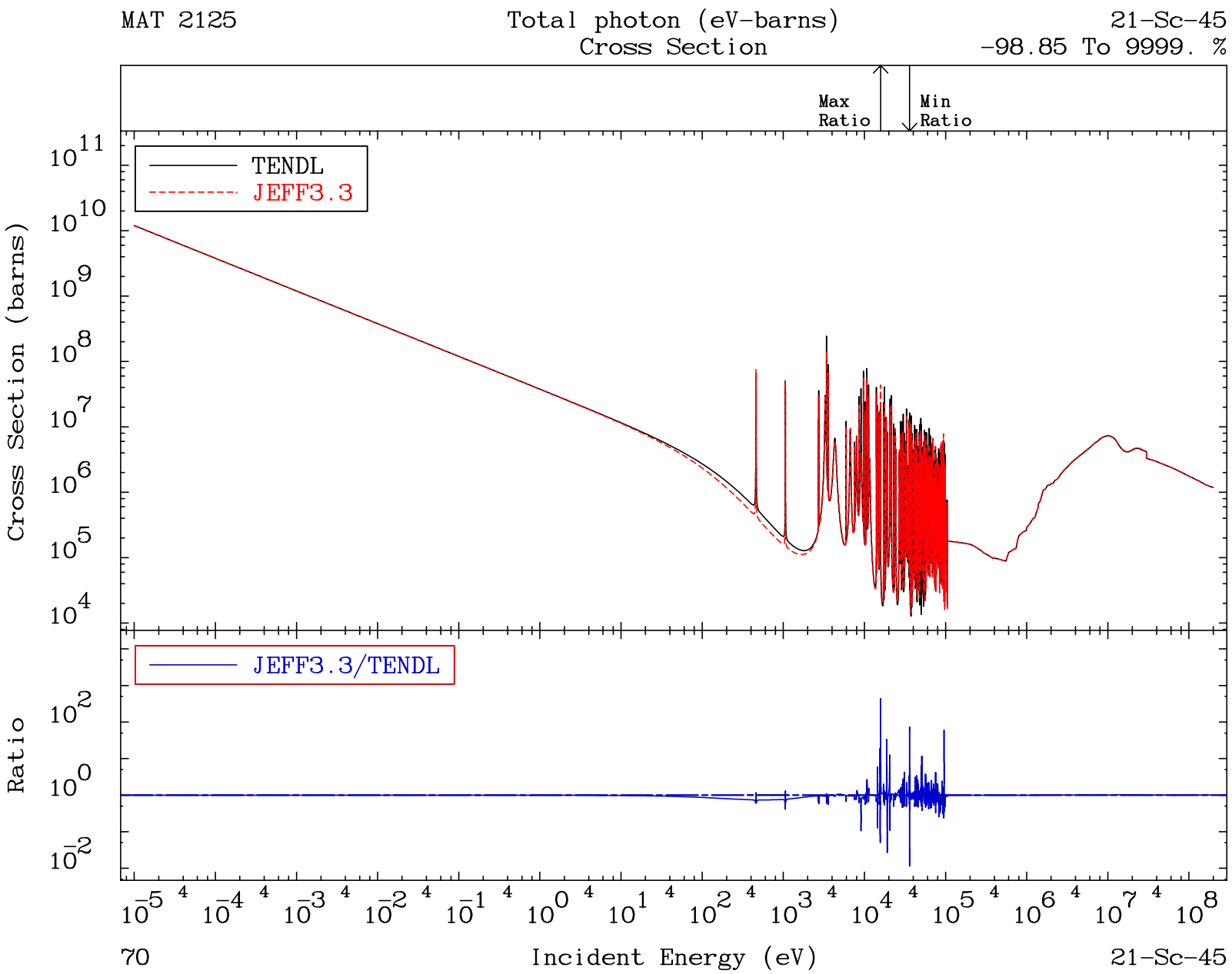

MAT 2125
Kerma elastic
Cross Section
21-Sc-45
-93.25 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
65
21-Sc-45

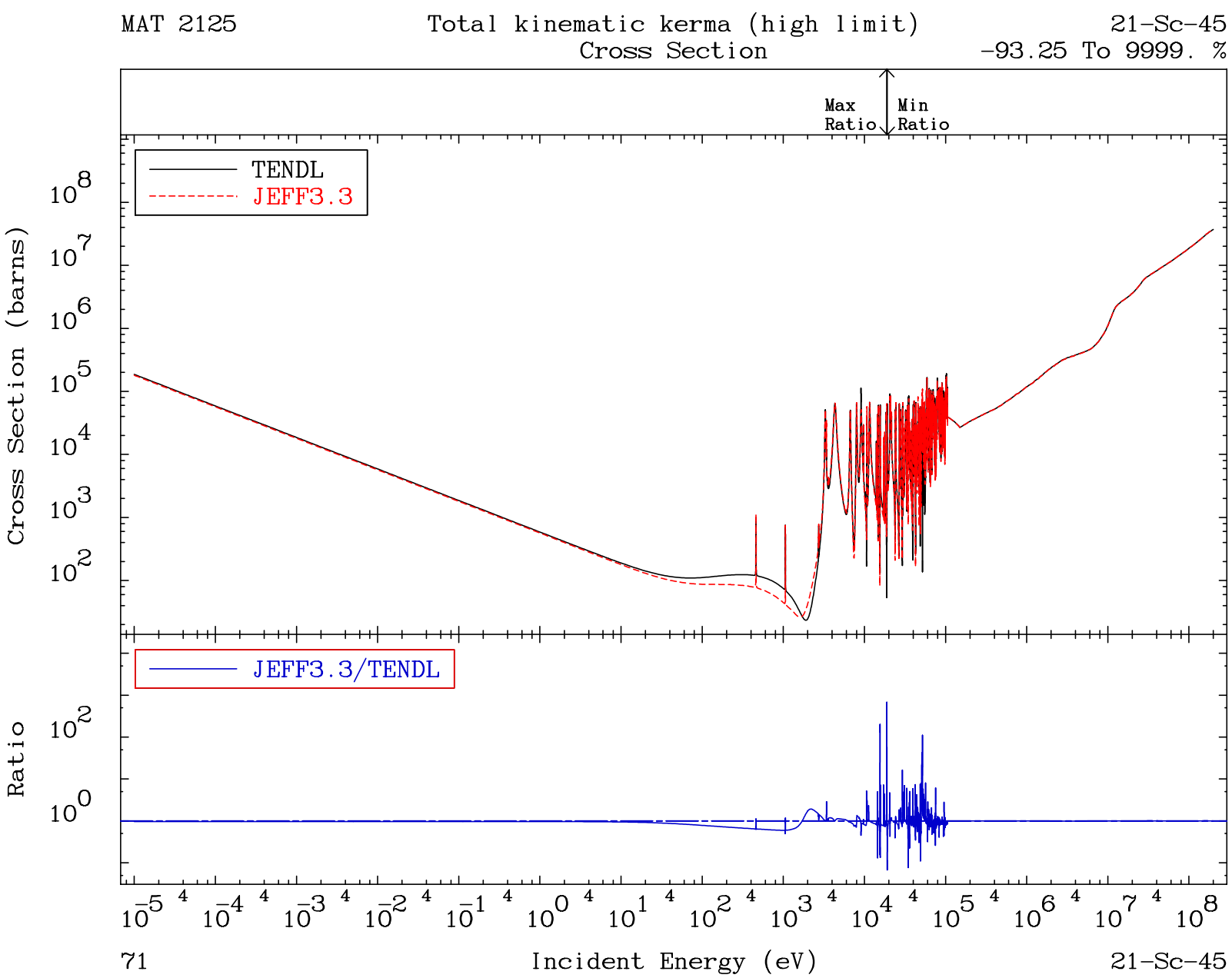

MAT 2125
Kerma non-elastic (all but mt2)
Cross Section
21-Sc-45
-96.54 To 8069. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
66
21-Sc-45

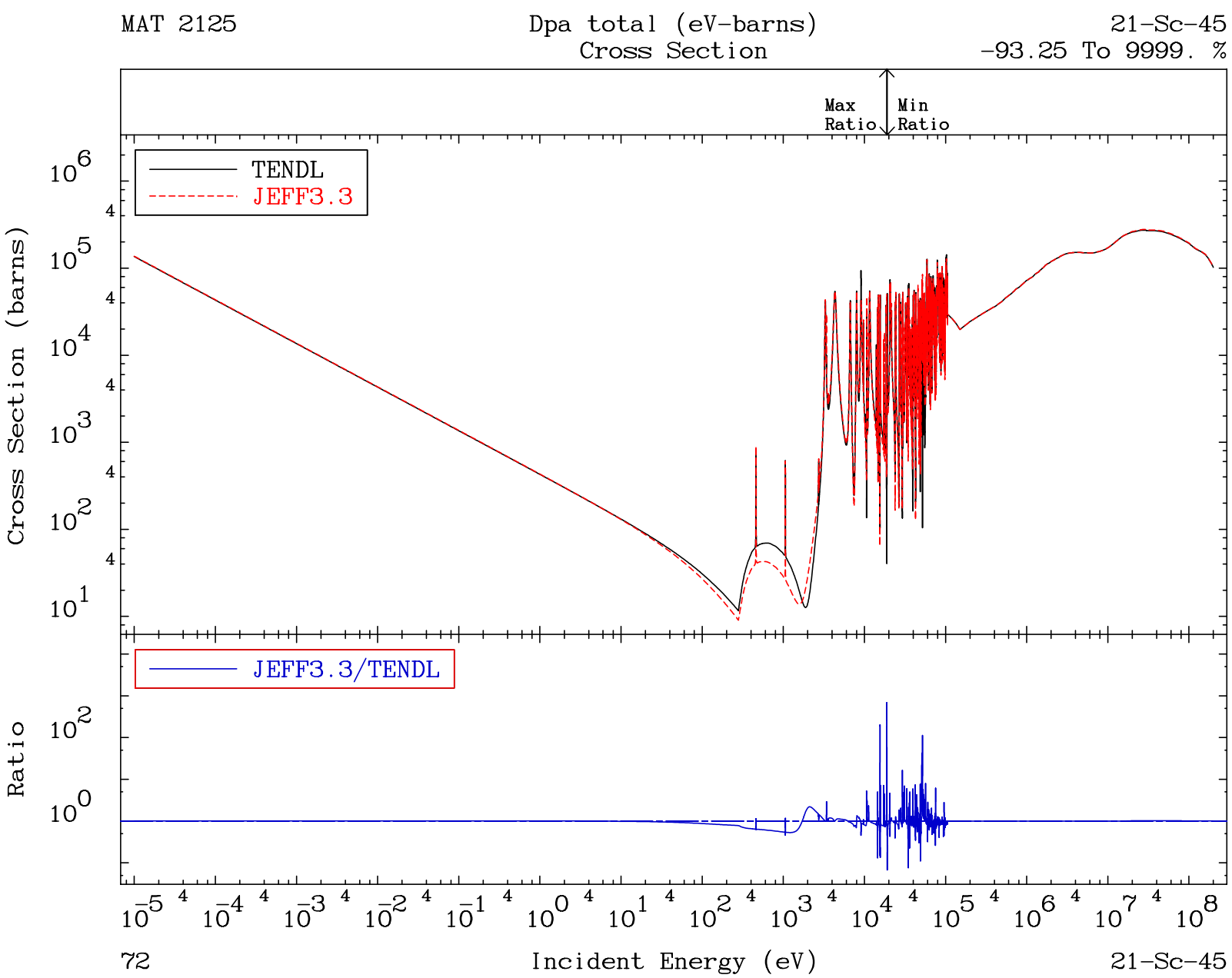

MAT 2125
Kerma inelastic (mt51-91)
Cross Section
21-Sc-45
-12.51 To 9999. %
Min
Ratio
TENDL Threshold 105.74 keV
JEFF3.3 Threshold 105.74 keV
Cross Section (kilo-barns)
400
300
200
100
0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
10^5
10^6
10^7
10^8
67
Incident Energy (eV)
21-Sc-45

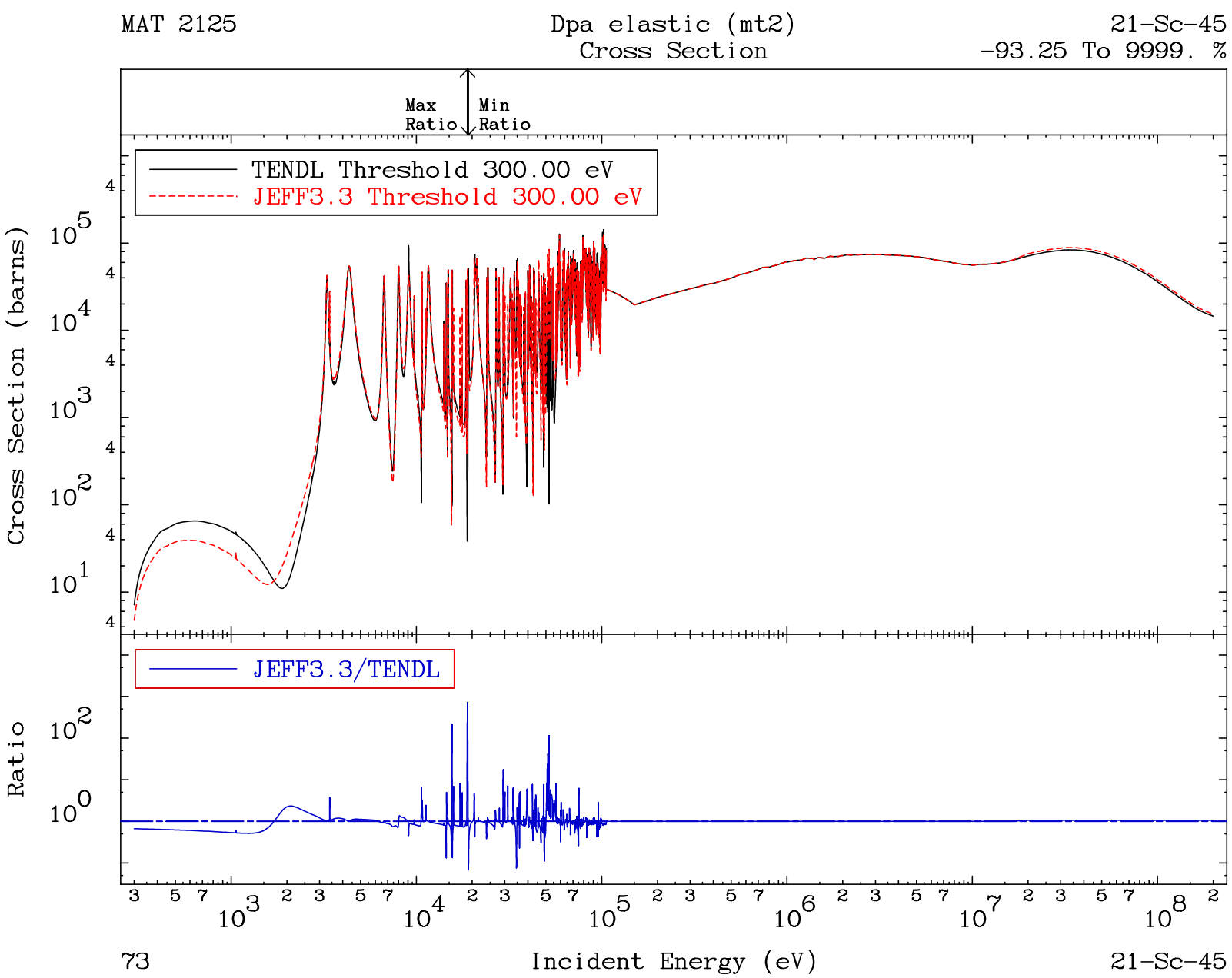

MAT 2125
Kerma fission (mt18 or mt19-20-21-38)
Cross Section
21-Sc-45
-12.51 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
1.0
0.5
0.0
-0.5
-1.0
JEFF3.3/TENDL
Ratio
10^9
10^6
10^3
10^0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
68
Incident Energy (eV)
21-Sc-45

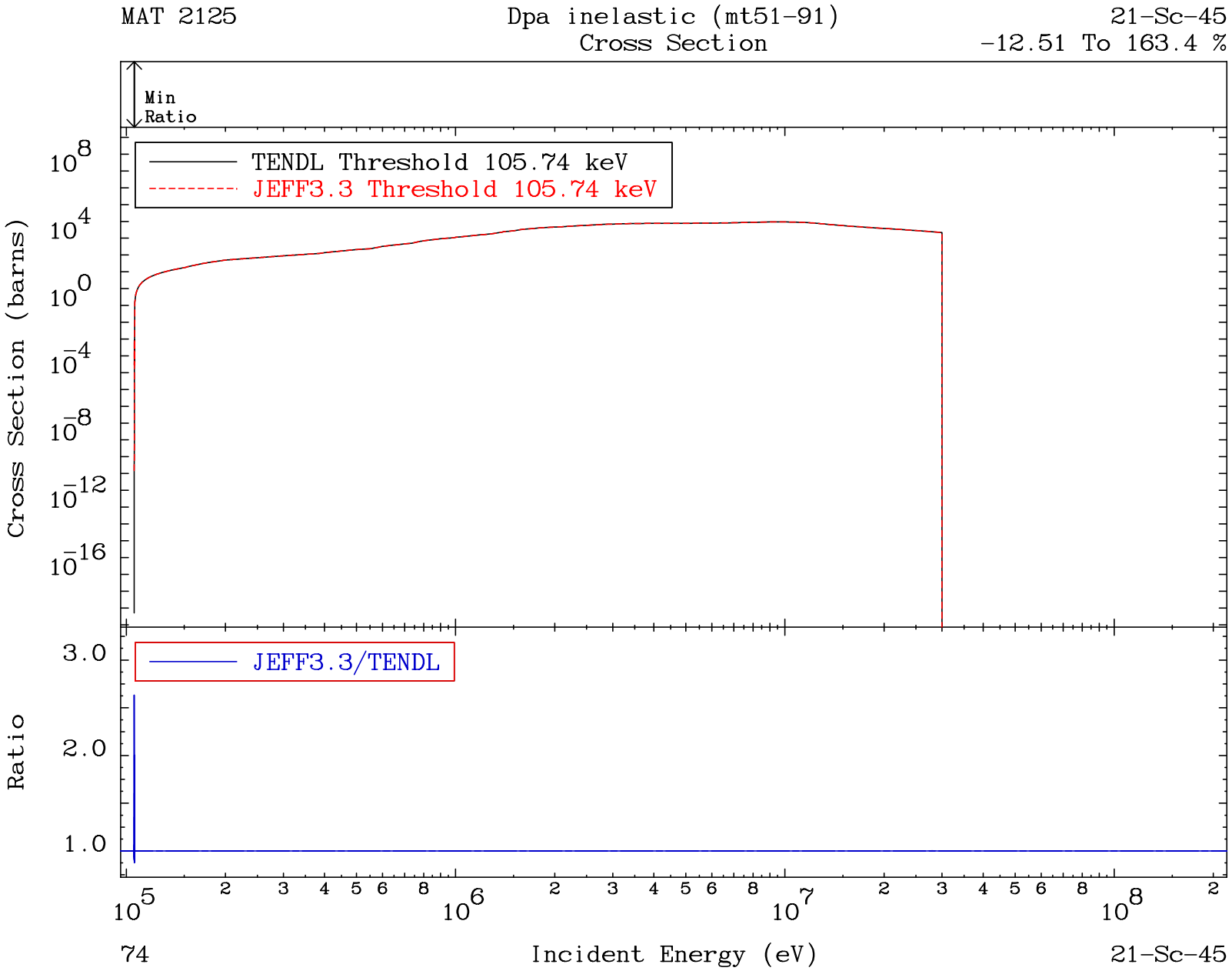

MAT 2125
Kerma capture (mt102)
Cross Section
21-Sc-45
-98.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
69
21-Sc-45

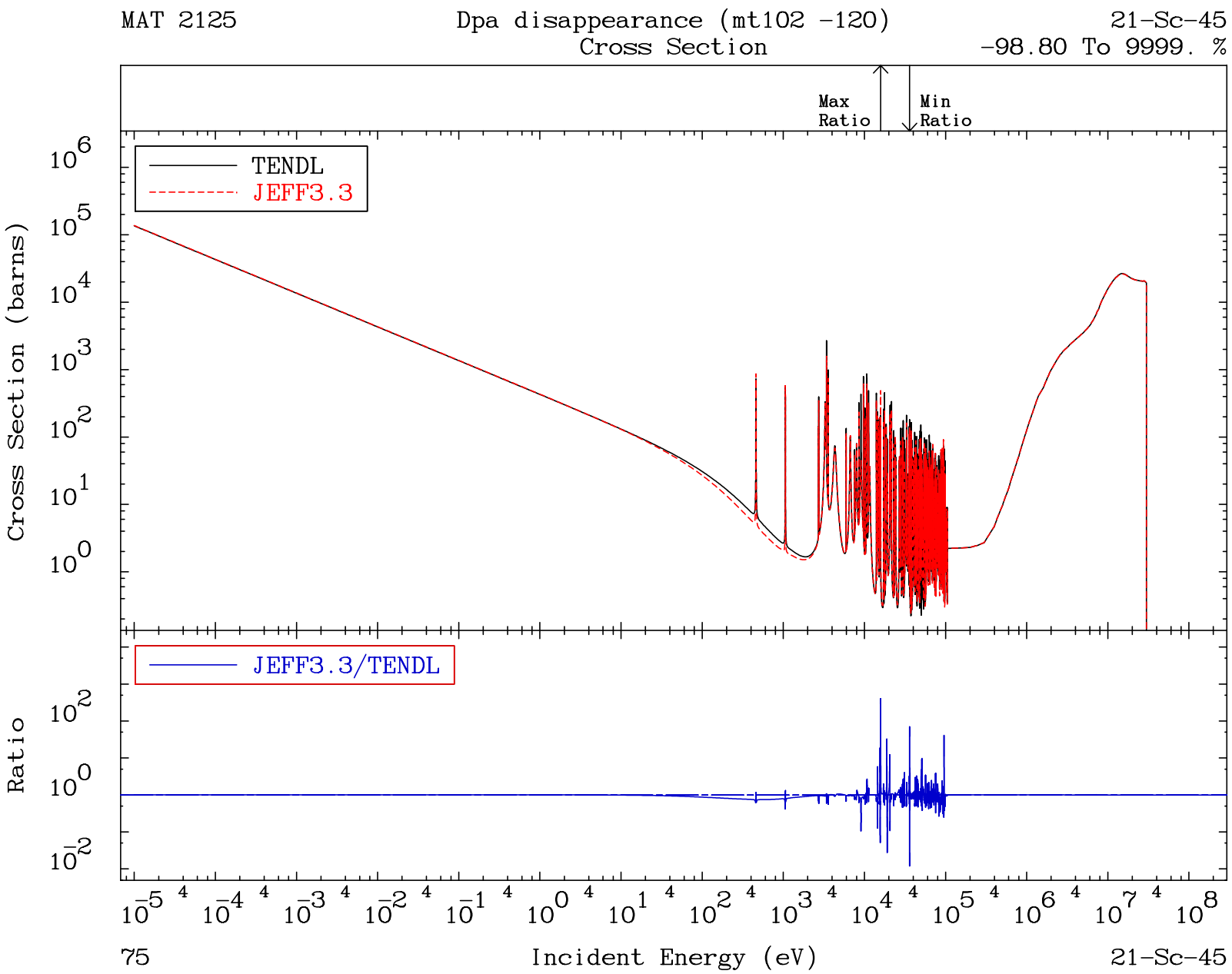

MAT 2125
Total photon (eV-barns)
Cross Section
21-Sc-45
-98.85 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
70
21-Sc-45

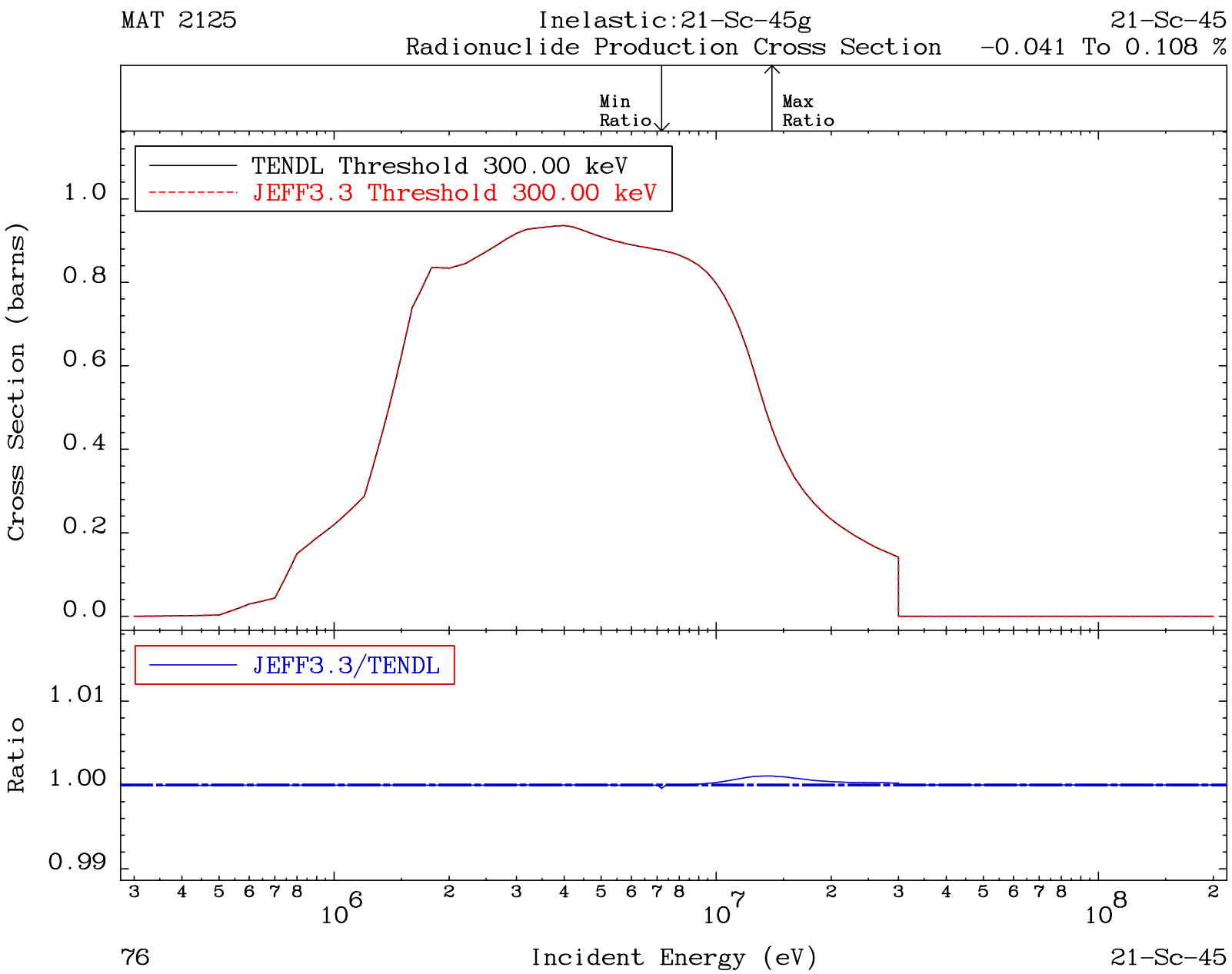

MAT 2125
Total kinematic kerma (high limit)
Cross Section
21-Sc-45
-93.25 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
71
21-Sc-45

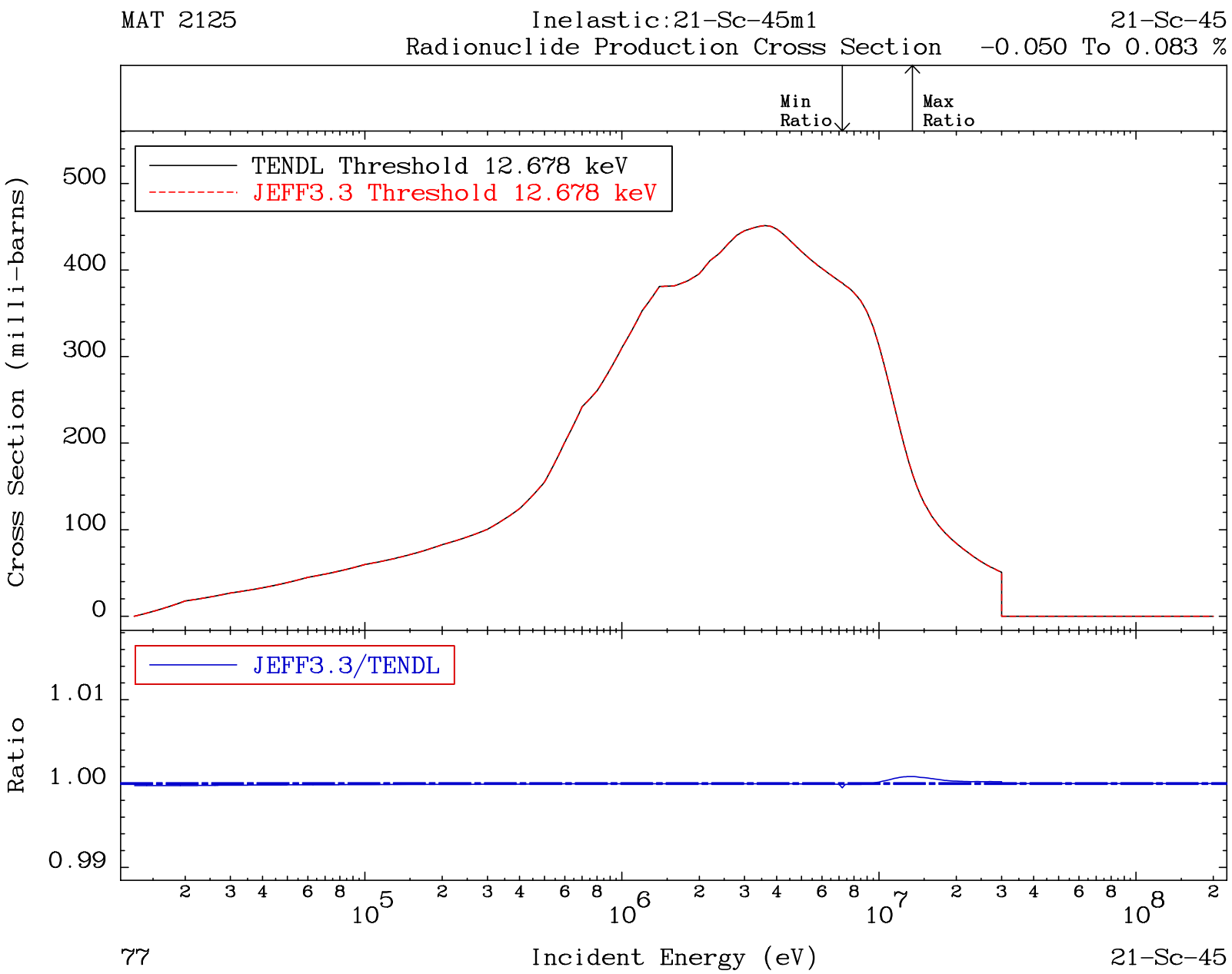

MAT 2125
Dpa total (eV-barns)
Cross Section
21-Sc-45
-93.25 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
72
21-Sc-45

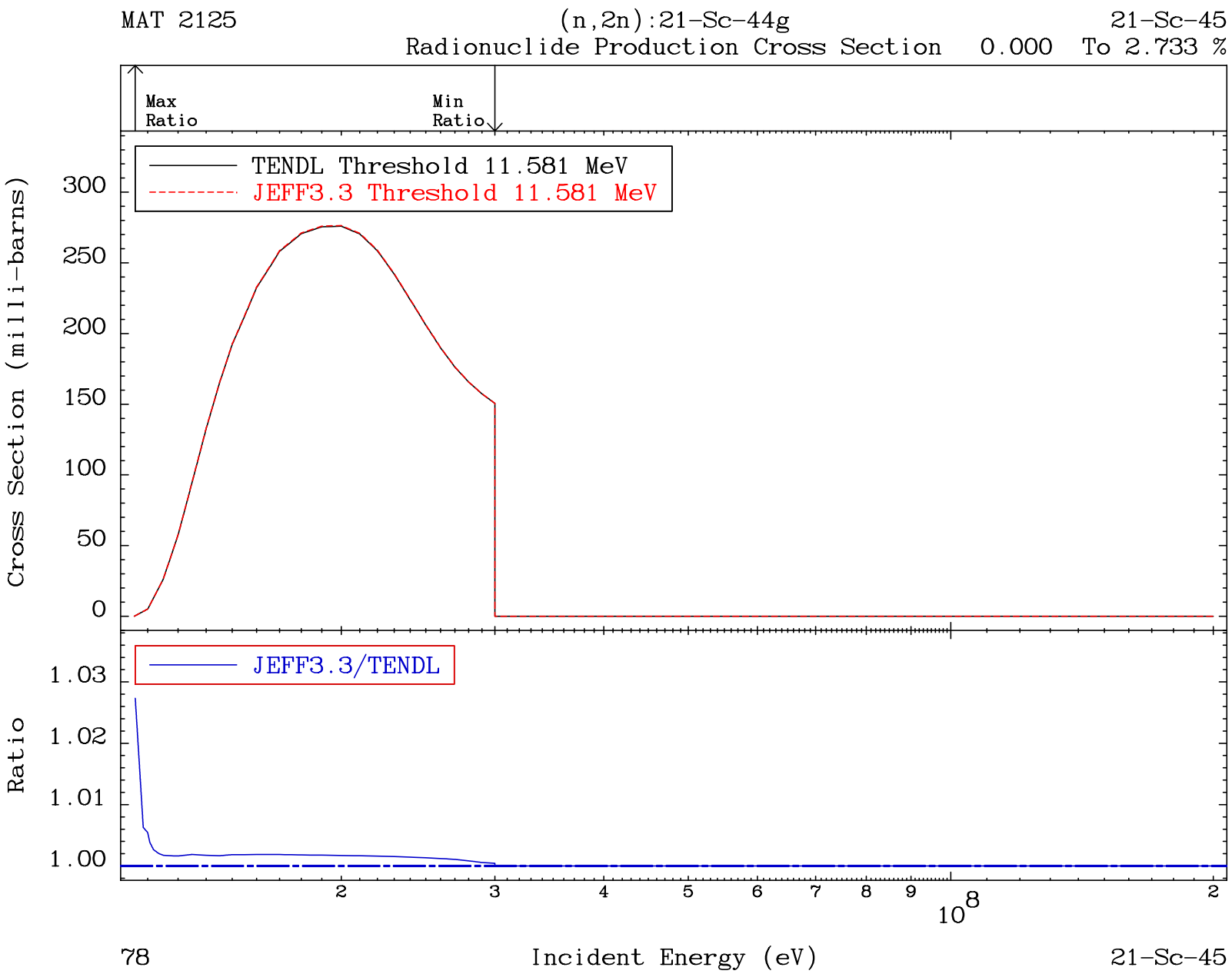

MAT 2125
Dpa elastic (mt2)
Cross Section
21-Sc-45
-93.25 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 300.00 eV
JEFF3.3 Threshold 300.00 eV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
73
Incident Energy (eV)
21-Sc-45

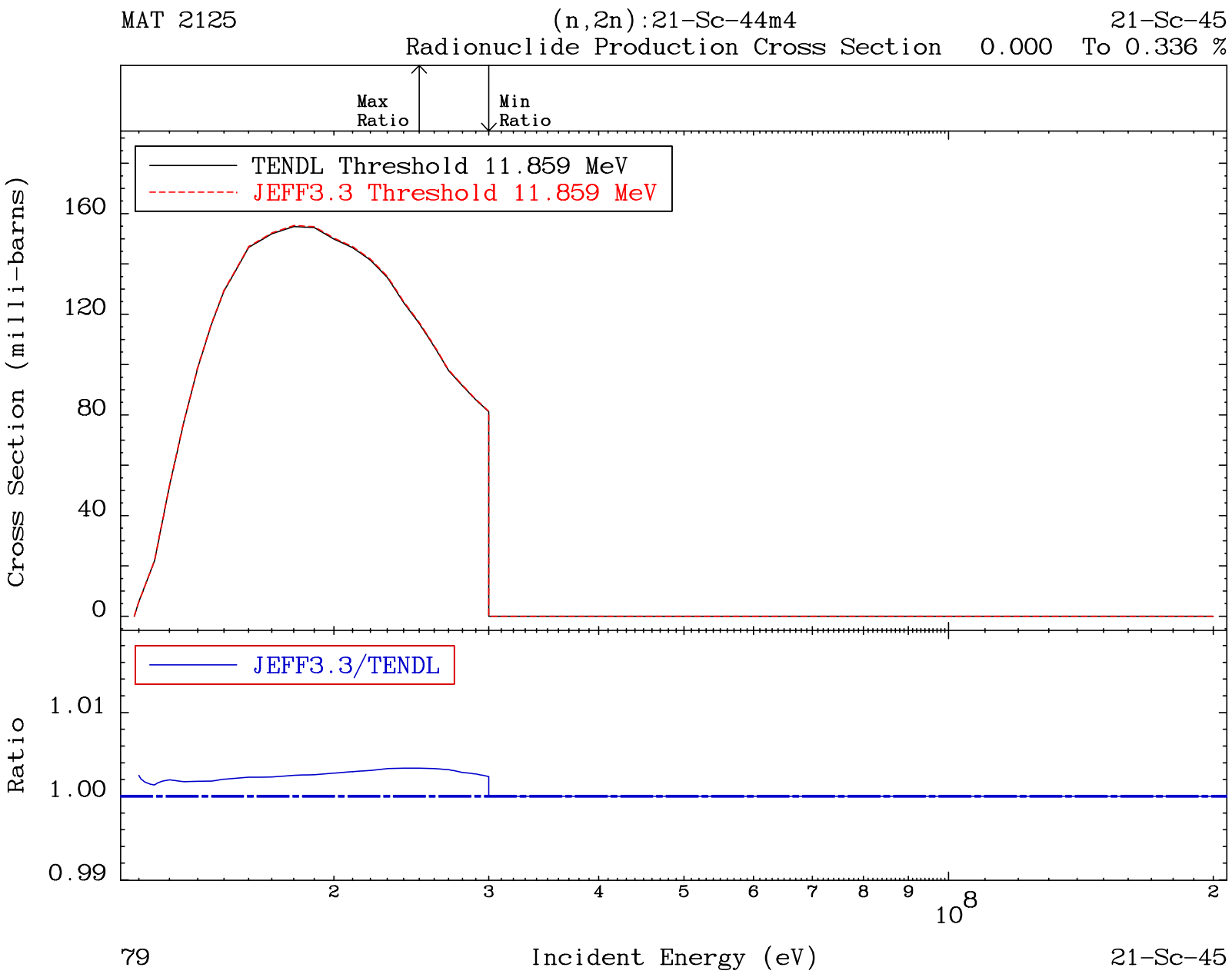

MAT 2125
Dpa inelastic (mt51-91)
Cross Section
21-Sc-45
-12.51 To 163.4 %
Min
Ratio
TENDL Threshold 105.74 keV
JEFF3.3 Threshold 105.74 keV
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
74
21-Sc-45

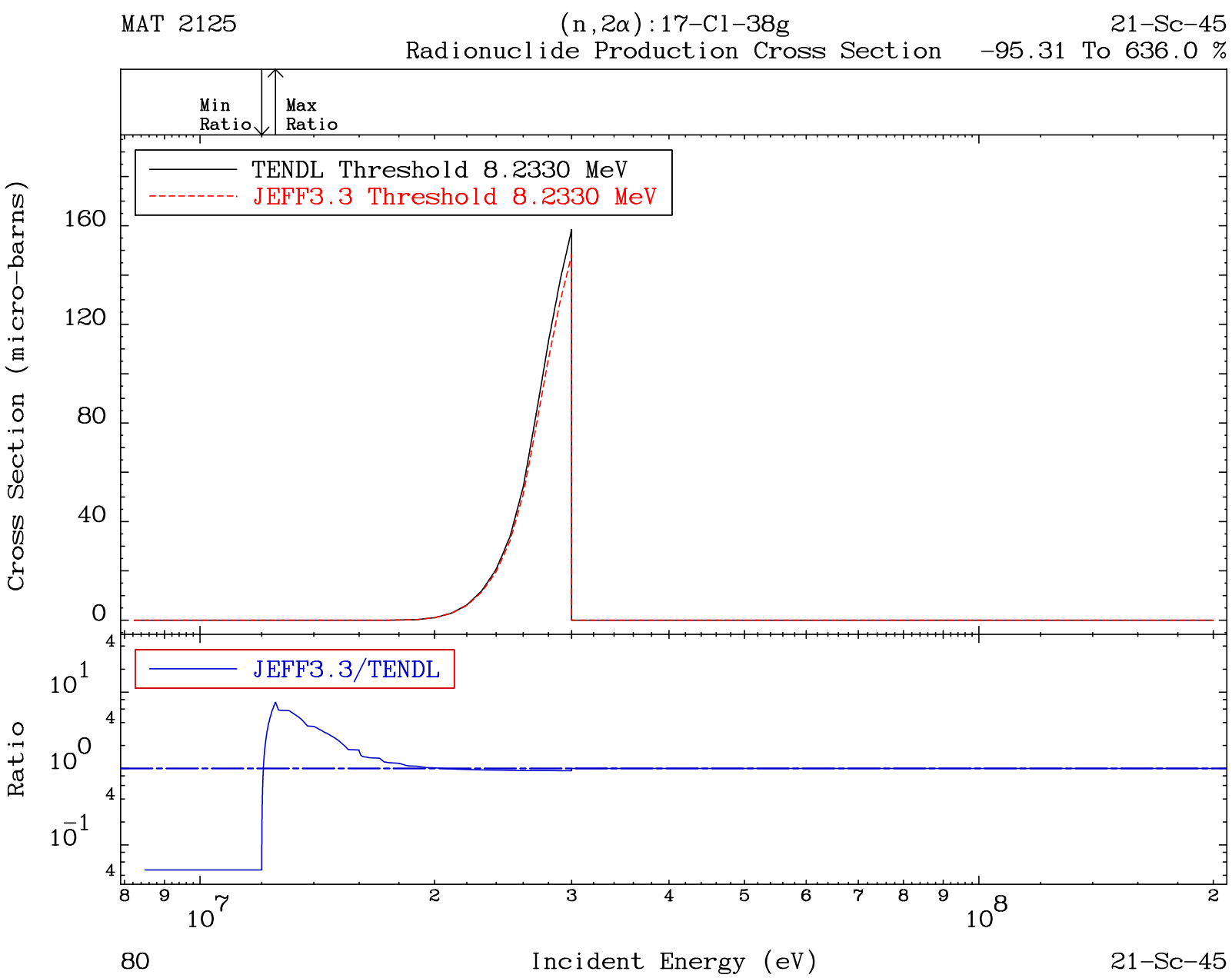

MAT 2125
Dpa disappearance (mt102 -120)
Cross Section
21-Sc-45
-98.80 To 9999. %
Max Ratio
Min Ratio
TENDL
JEFF3.3
Cross Section (barns)
JEFF3.3/TENDL
Ratio
Incident Energy (eV)
75
21-Sc-45

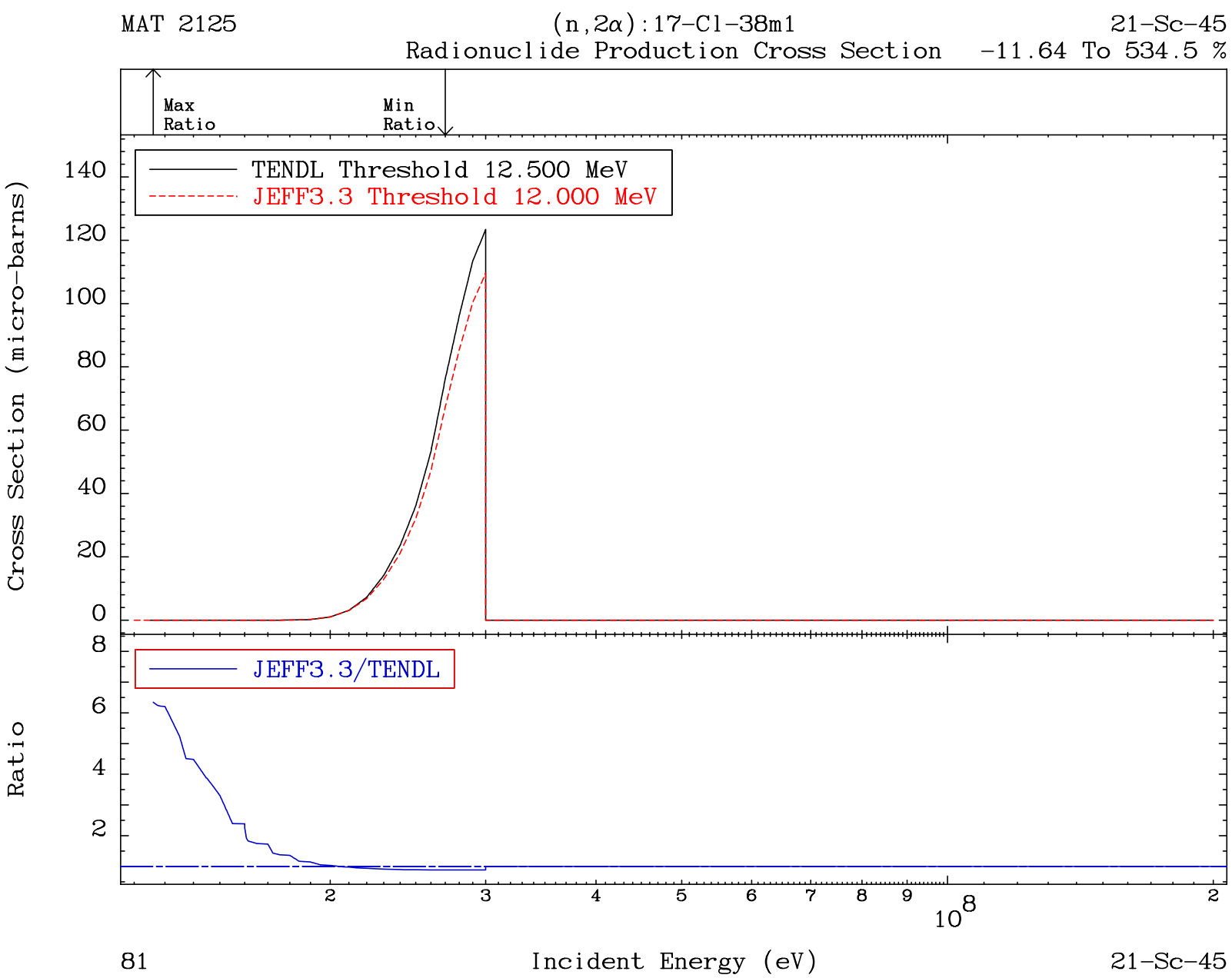

MAT 2125
Inelastic:21-Sc-45g
21-Sc-45
Radionuclide Production Cross Section
-0.041 To 0.108 %
Min Ratio
Max Ratio
TENDL Threshold 300.00 keV
JEFF3.3 Threshold 300.00 keV
Cross Section (barns)
1.0
0.8
0.6
0.4
0.2
0.0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
3 4 5 6 7 8 10^6 2 3 4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
76
Incident Energy (eV)
21-Sc-45


MAT 2125
Inelastic:21-Sc-45m1
21-Sc-45
Radionuclide Production Cross Section
-0.050 To 0.083 %
Min Ratio
Max Ratio
TENDL Threshold 12.678 keV
JEFF3.3 Threshold 12.678 keV
Cross Section (milli-barns)
500
400
300
200
100
0
JEFF3.3/TENDL
Ratio
1.01
1.00
0.99
2 3 4 6 8 10^5 2 3 4 6 8 10^6 2 3 4 6 8 10^7 2 3 4 6 8 10^8 2
77
Incident Energy (eV)
21-Sc-45


MAT 2125
(n,2n):21-Sc-44g
21-Sc-45
Radionuclide Production Cross Section 0.000 To 2.733 %
Max Ratio
Min Ratio
TENDL Threshold 11.581 MeV
JEFF3.3 Threshold 11.581 MeV
Cross Section (milli-barns)
300
250
200
150
100
50
0
JEFF3.3/TENDL
Ratio
1.03
1.02
1.01
1.00
2
3
4
5
6
7
8
9
10^8
2
78
Incident Energy (eV)
21-Sc-45


MAT 2125
(n,2n):21-Sc-44m4
21-Sc-45
Radionuclide Production Cross Section 0.000 To 0.336 %
Max Ratio
Min Ratio
TENDL Threshold 11.859 MeV
JEFF3.3 Threshold 11.859 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
79
Incident Energy (eV)
21-Sc-45


MAT 2125
(n,2α):17-Cl-38g
21-Sc-45
Radionuclide Production Cross Section -95.31 To 636.0 %
Min Ratio
Max Ratio
TENDL Threshold 8.2330 MeV
JEFF3.3 Threshold 8.2330 MeV
Cross Section (micro-barns)
160
120
80
40
0
JEFF3.3/TENDL
Ratio
10^1
10^0
10^-1
10^7
10^8
Incident Energy (eV)
80
21-Sc-45


MAT 2125
(n,2α):17-Cl-38m1
21-Sc-45
Radionuclide Production Cross Section -11.64 To 534.5 %
Max Ratio
Min Ratio
TENDL Threshold 12.500 MeV
JEFF3.3 Threshold 12.000 MeV
Cross Section (micro-barns)
140
120
100
80
60
40
20
0
JEFF3.3/TENDL
Ratio
8
6
4
2
2
3
4
5
6
7
8
9
10^8
2
81
Incident Energy (eV)
21-Sc-45