Program Complot
(Version 2021-1)
by
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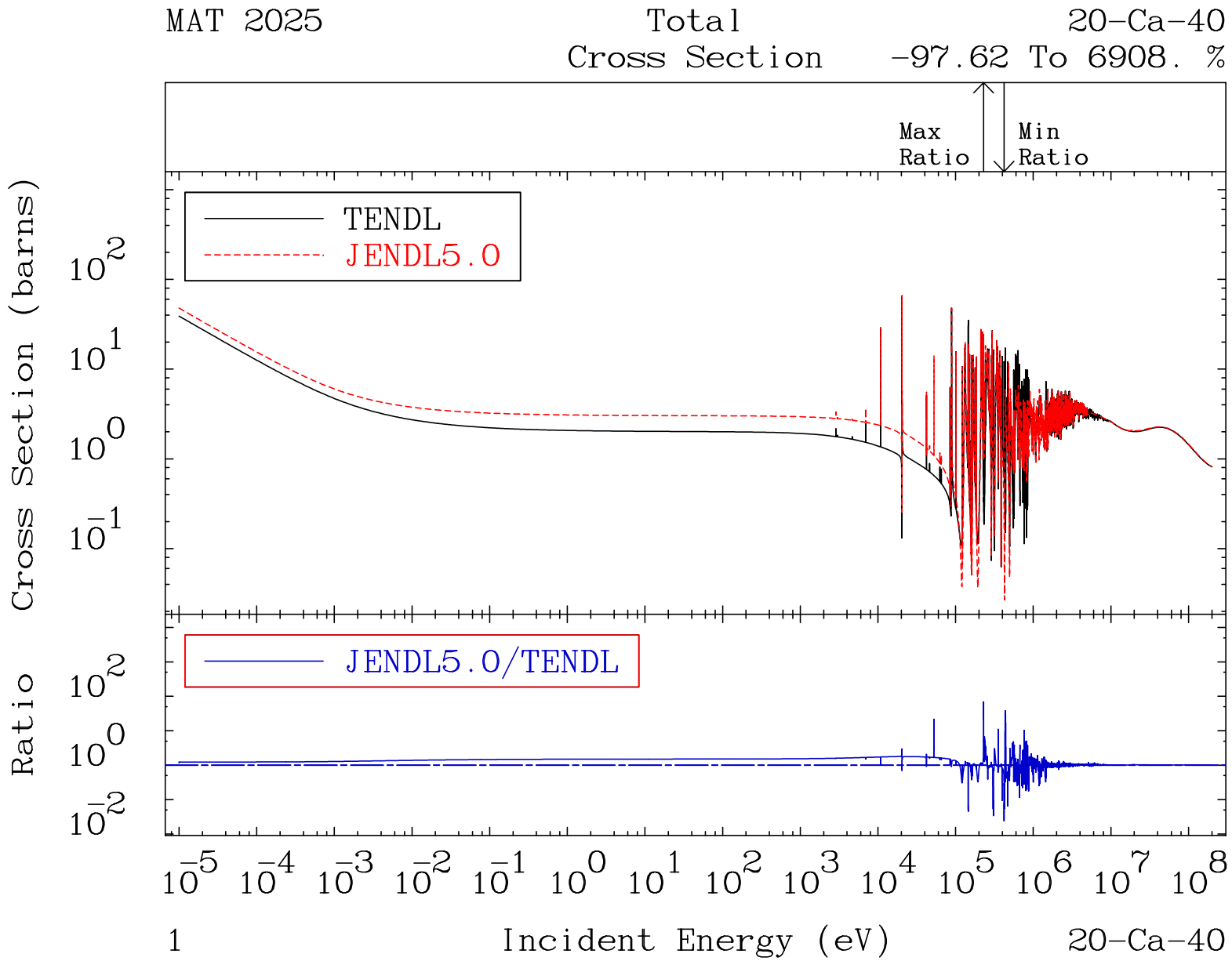
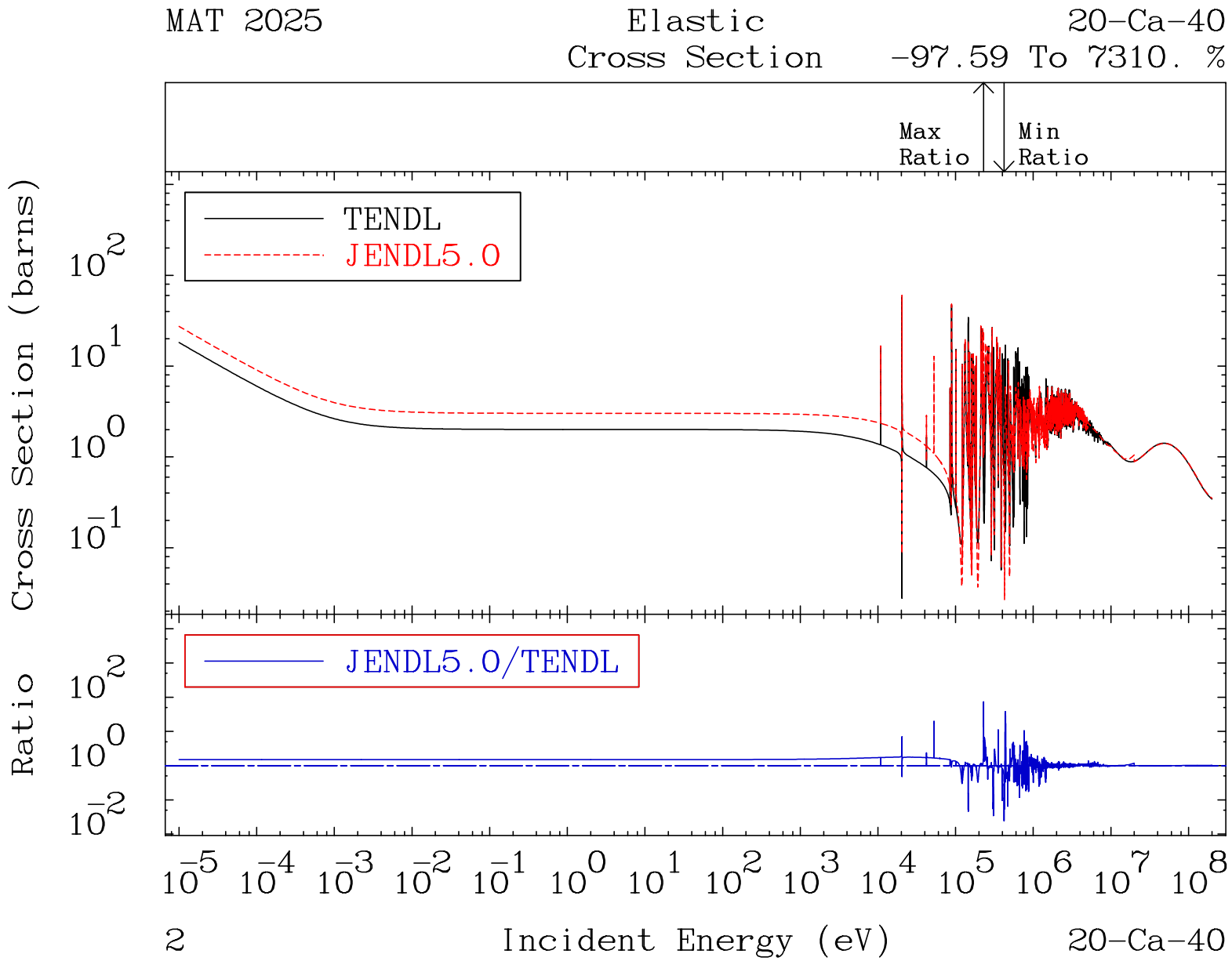
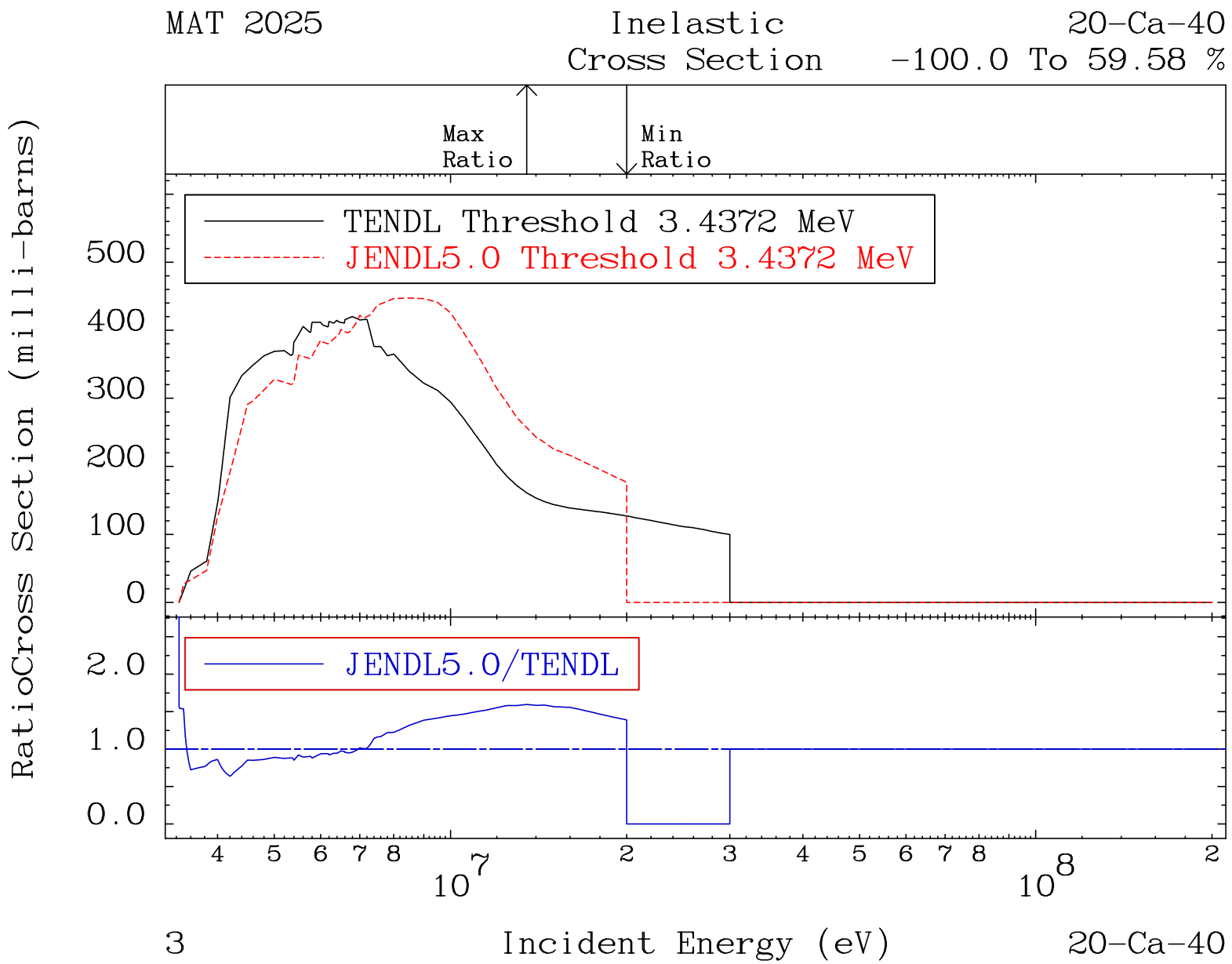
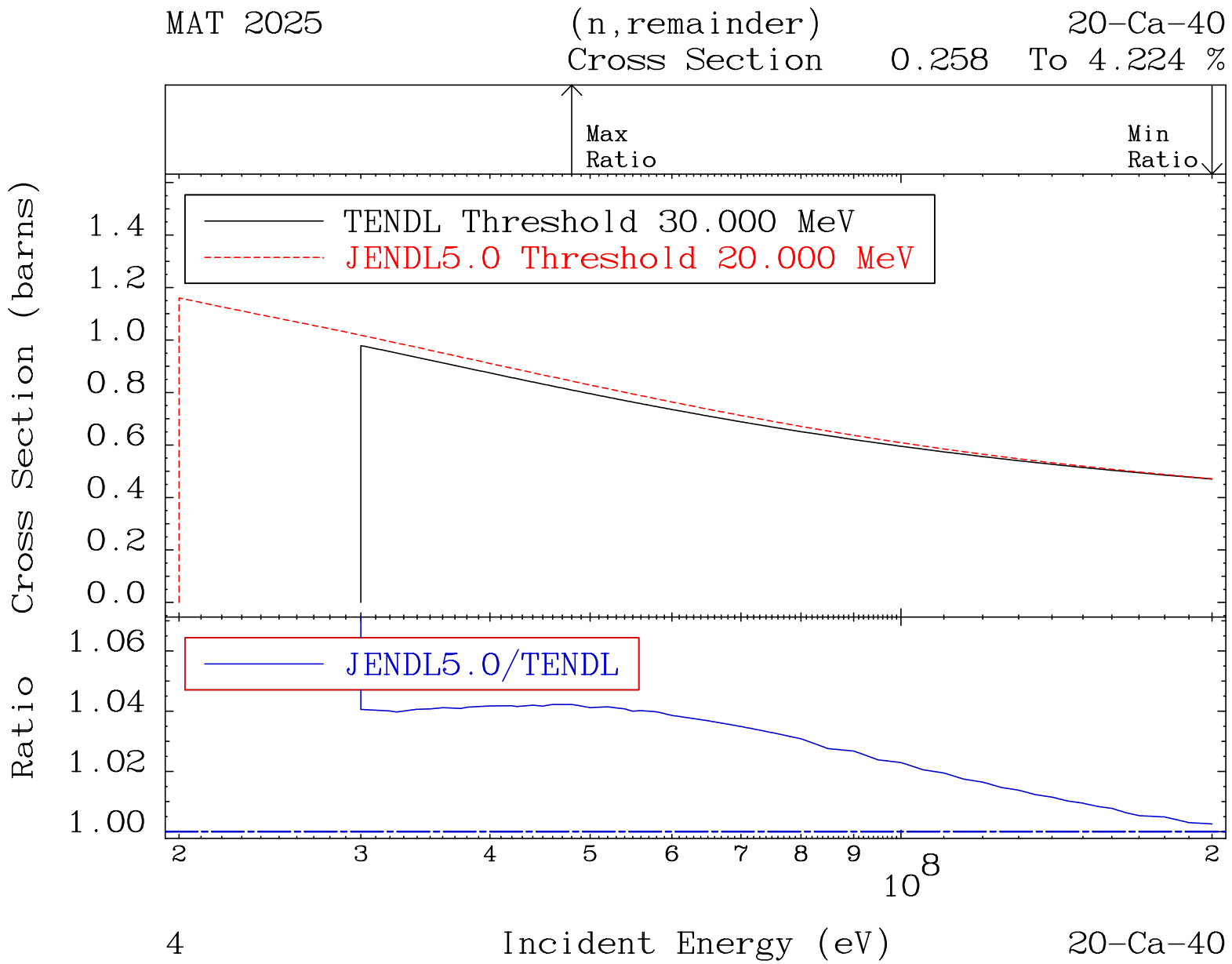
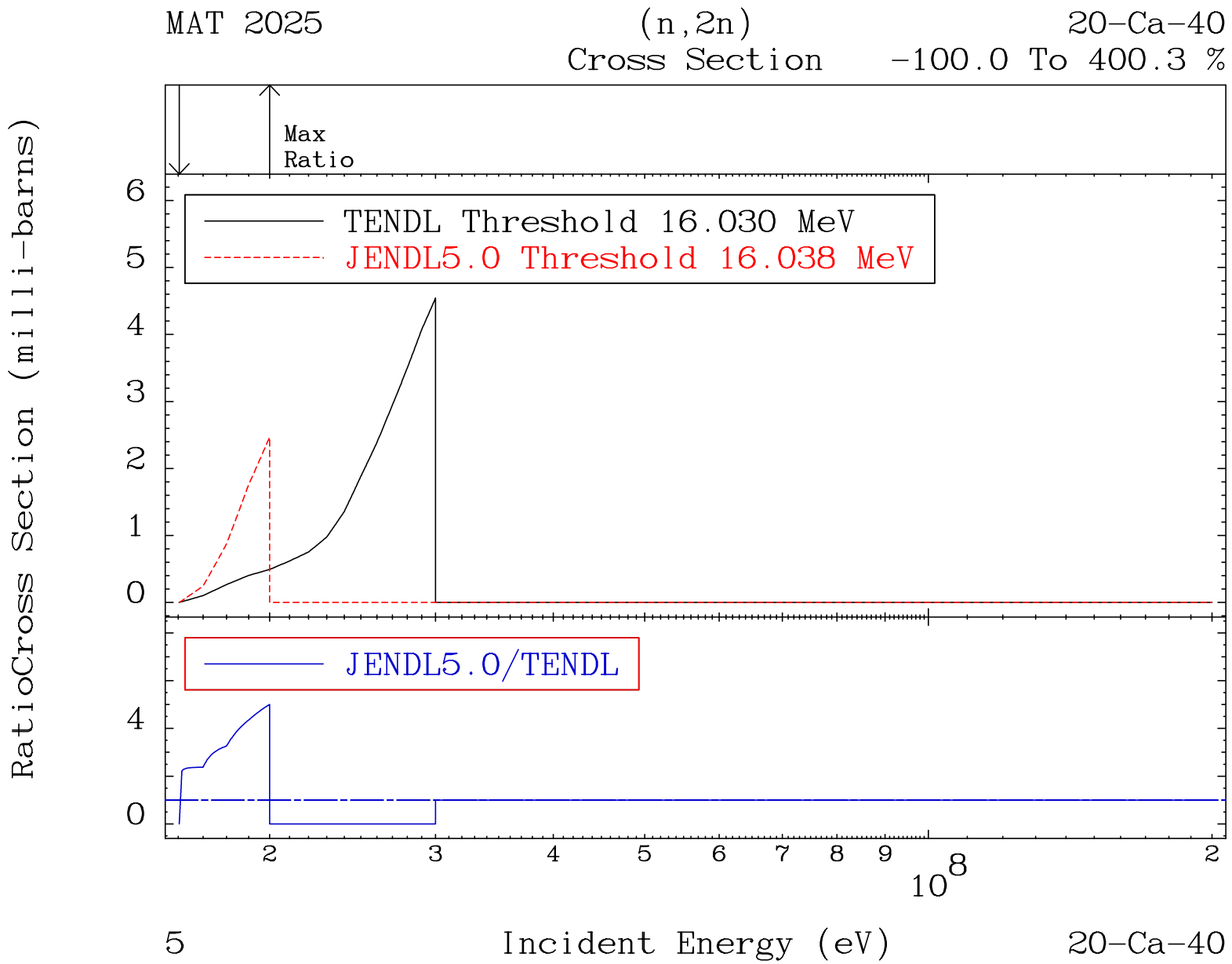
Press Mouse Button to Start

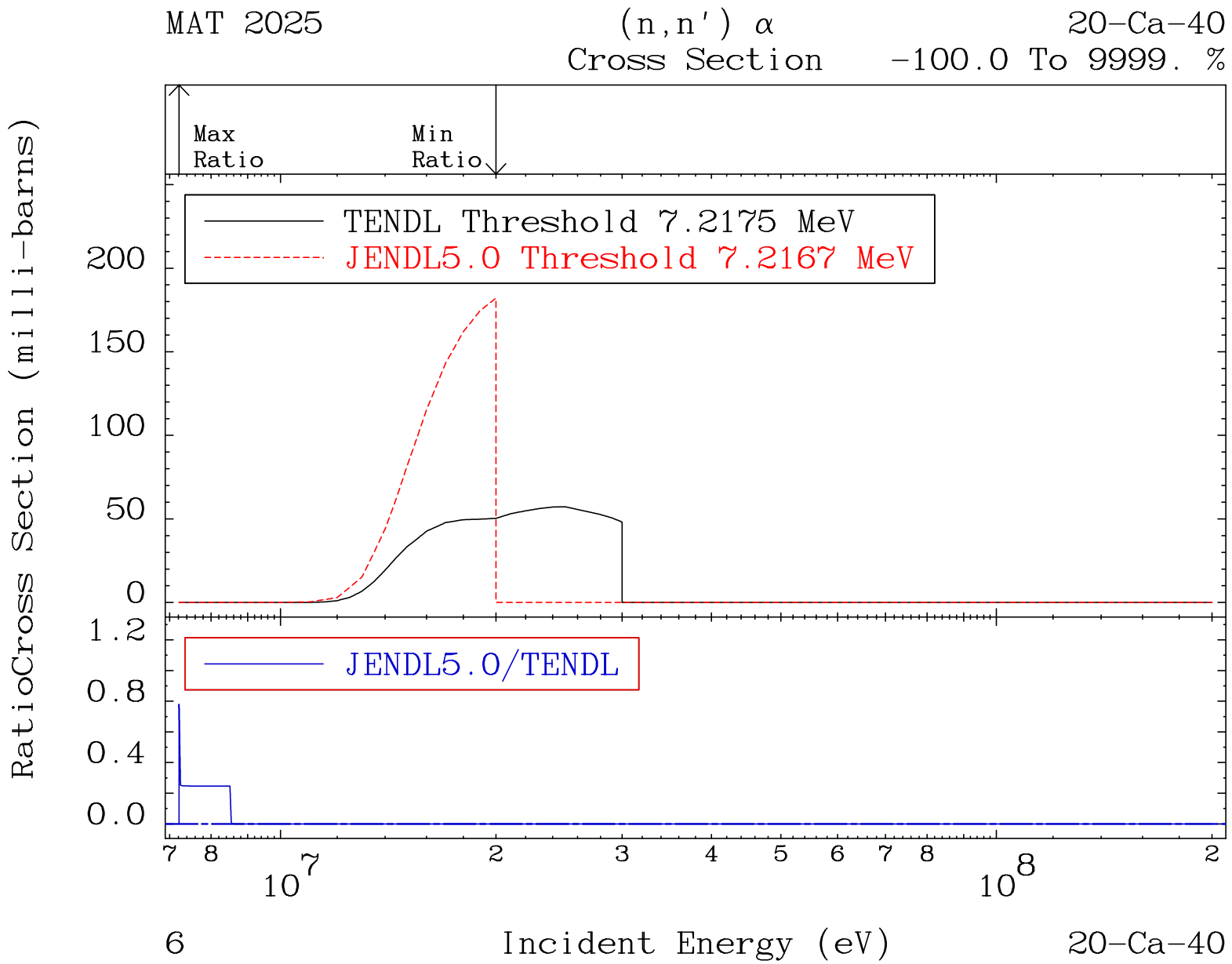

MAT 2025
Total
Cross Section
20-Ca-40
-97.62 To 6908. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
1
20-Ca-40

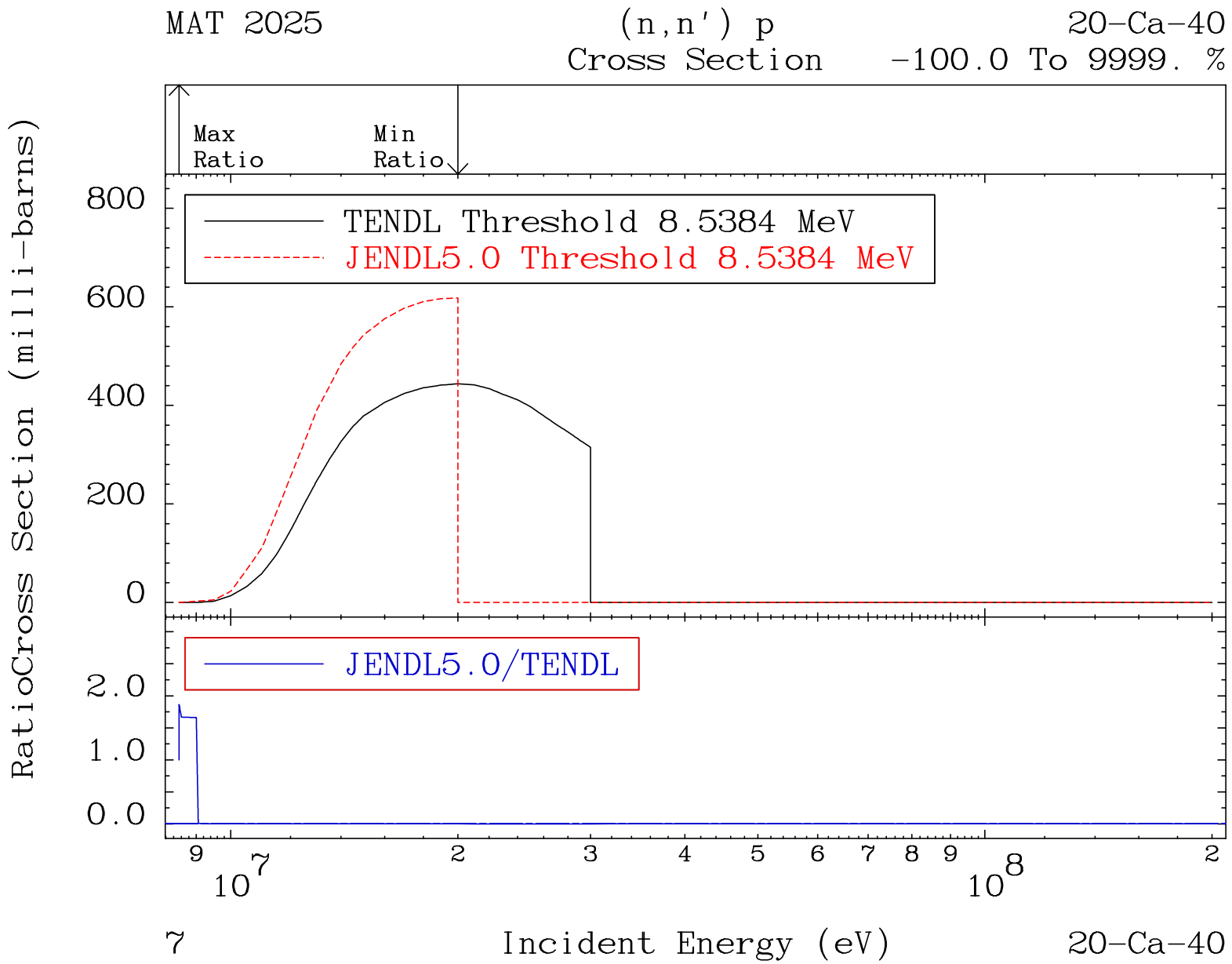

MAT 2025
Elastic
Cross Section
20-Ca-40
-97.59 To 7310. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
2
20-Ca-40

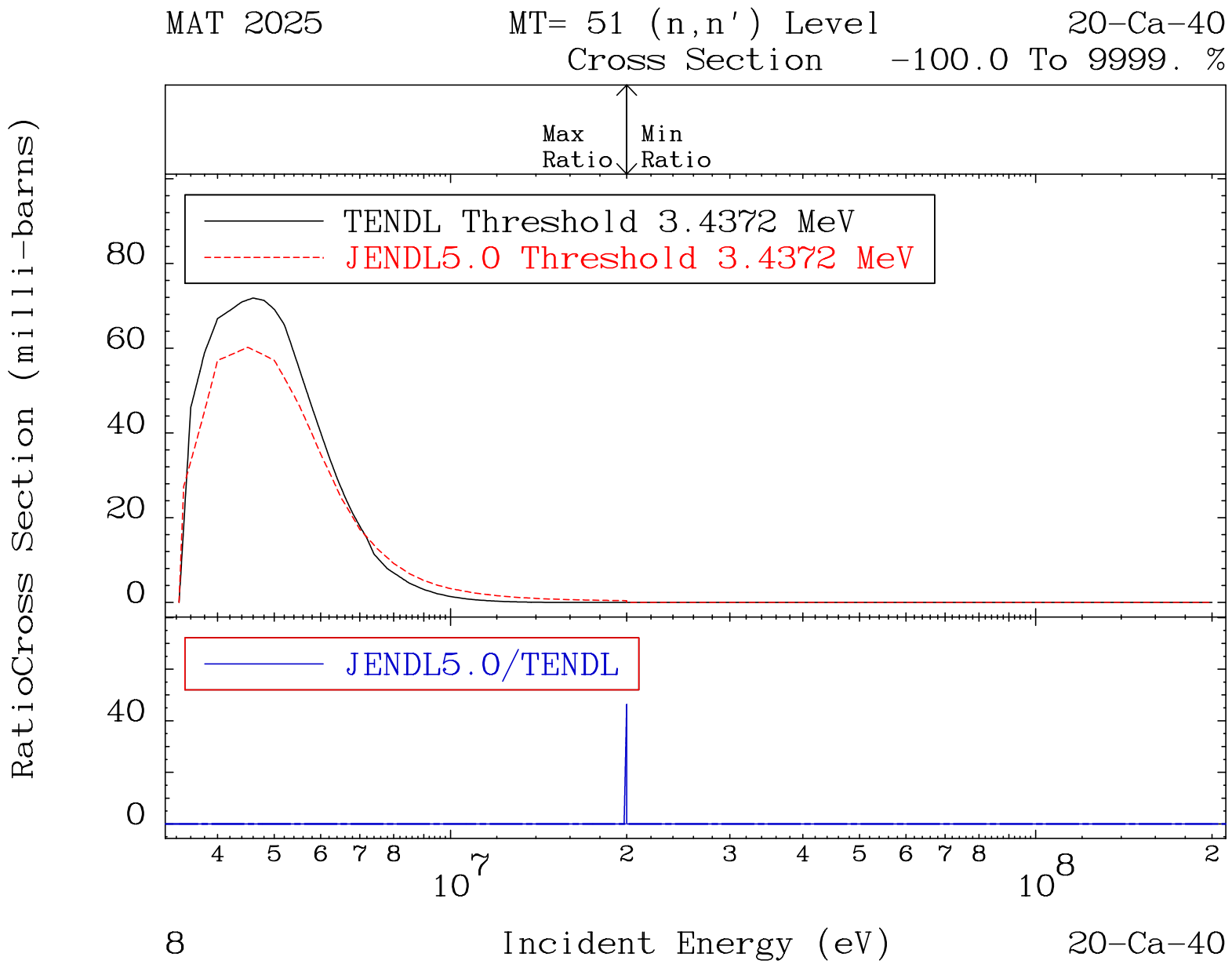

MAT 2025
Inelastic
Cross Section
20-Ca-40
-100.0 To 59.58 %
Max
Ratio
Min
Ratio
TENDL Threshold 3.4372 MeV
JENDL5.0 Threshold 3.4372 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
500
400
300
200
100
0
2.0
1.0
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
3
Incident Energy (eV)
20-Ca-40

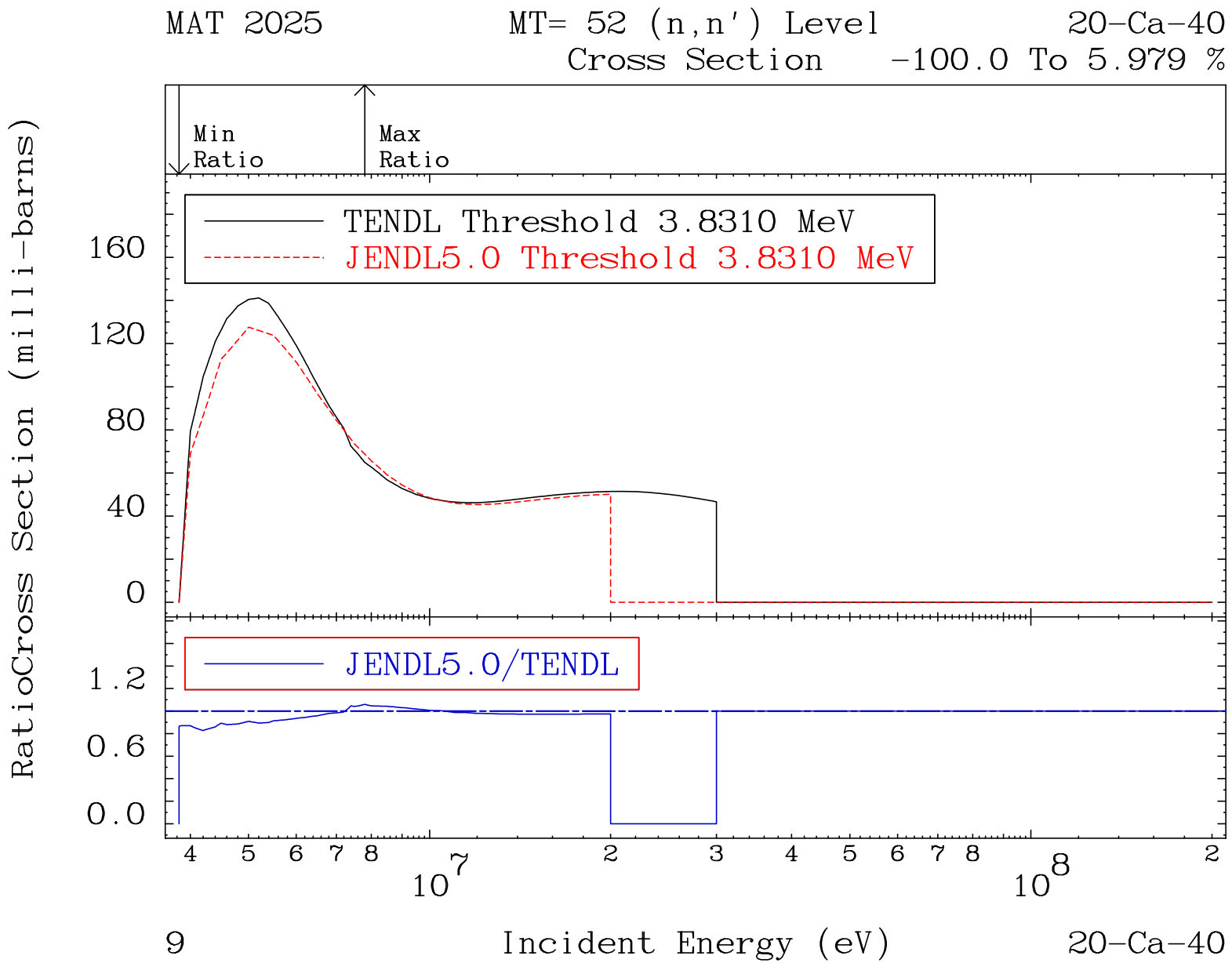

MAT 2025
(n,remainder)
20-Ca-40
Cross Section 0.258 To 4.224 %
Max Ratio
Min Ratio
TENDL Threshold 30.000 MeV
JENDL5.0 Threshold 20.000 MeV
Cross Section (barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
JENDL5.0/TENDL
Ratio
1.06
1.04
1.02
1.00
2
3
4
5
6
7
8
9
2
10^8
4
Incident Energy (eV)
20-Ca-40

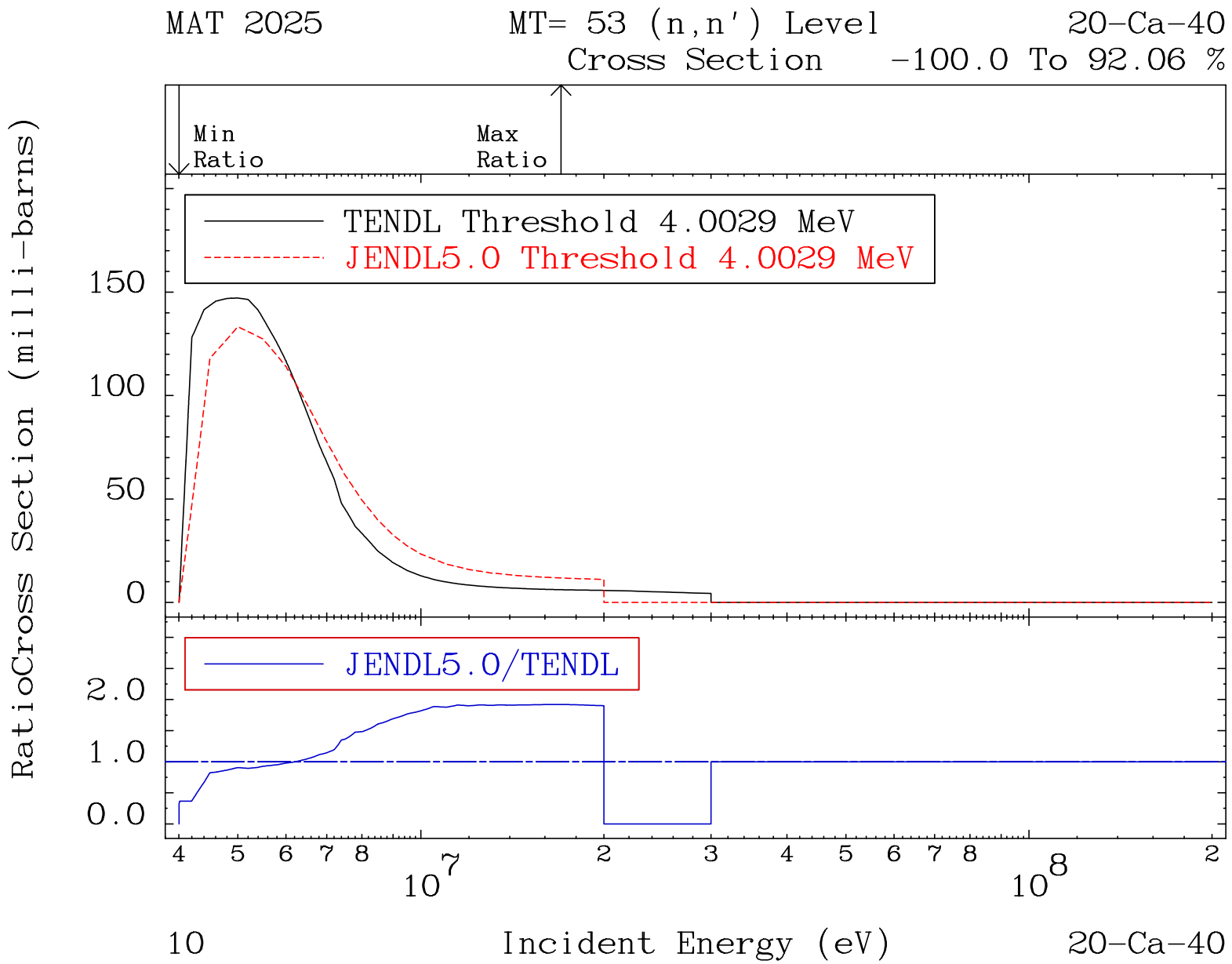

MAT 2025
(n,2n)
Cross Section
20-Ca-40
-100.0 To 400.3 %
Max
Ratio
TENDL Threshold 16.030 MeV
JENDL5.0 Threshold 16.038 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
10^8
5
20-Ca-40

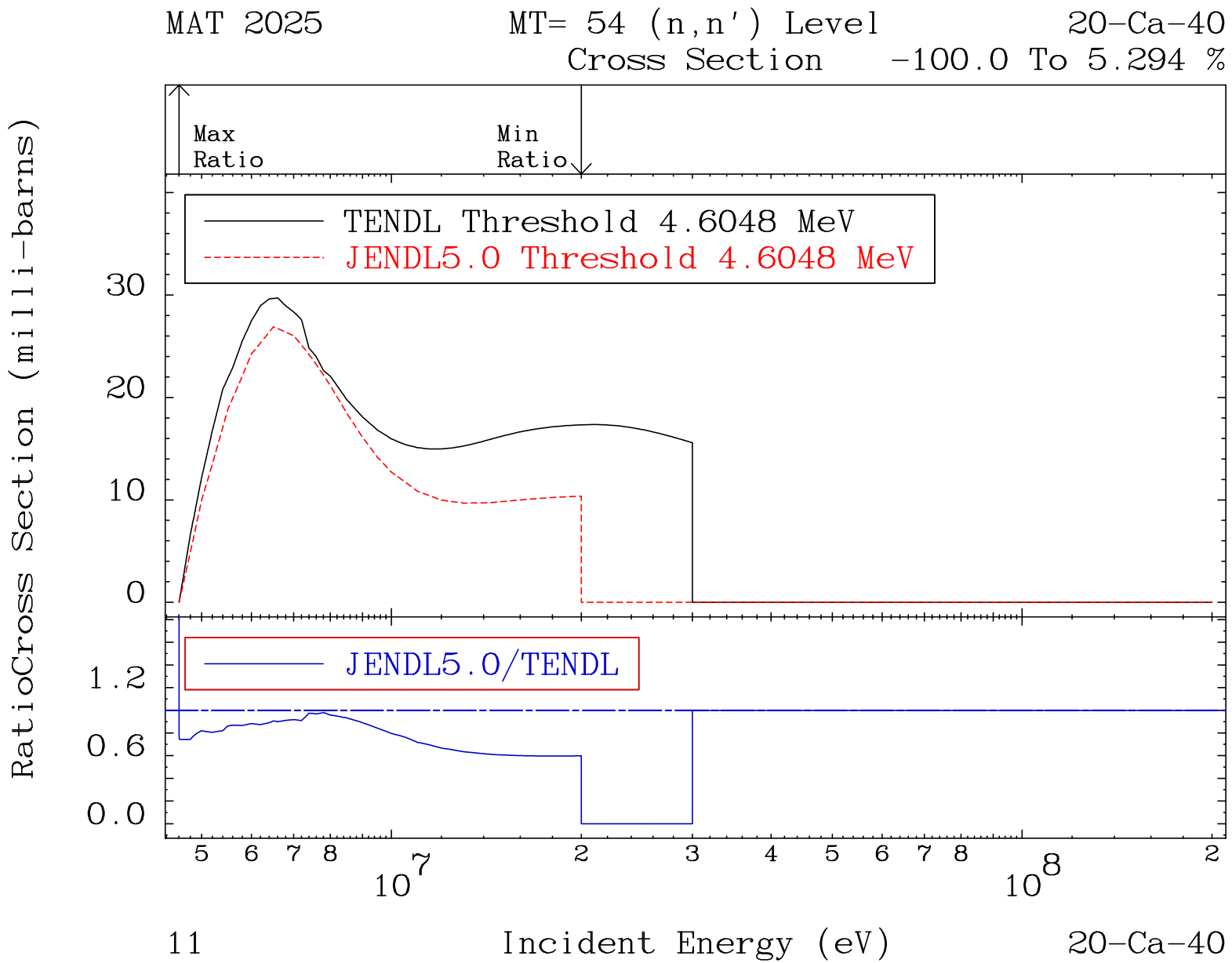

MAT 2025
(n,n') α
Cross Section
20-Ca-40
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 7.2175 MeV
JENDL5.0 Threshold 7.2167 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.2
0.8
0.4
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
Incident Energy (eV)
6
20-Ca-40

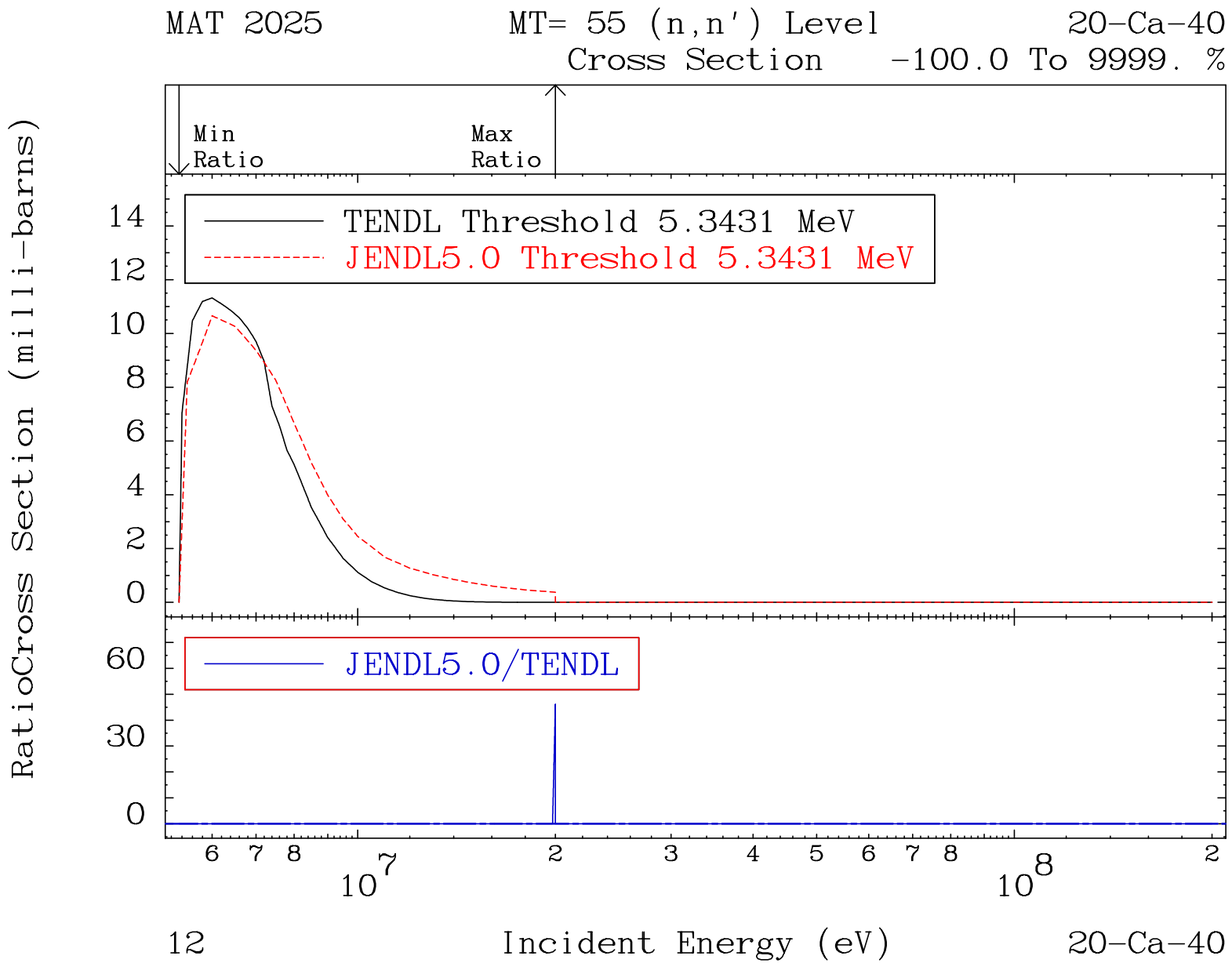

MAT 2025
(n,n') p
Cross Section
20-Ca-40
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 8.5384 MeV
JENDL5.0 Threshold 8.5384 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
800
600
400
200
0
2.0
1.0
0.0
9
10^7
2
3
4
5
6
7
8
9
10^8
2
7
Incident Energy (eV)
20-Ca-40

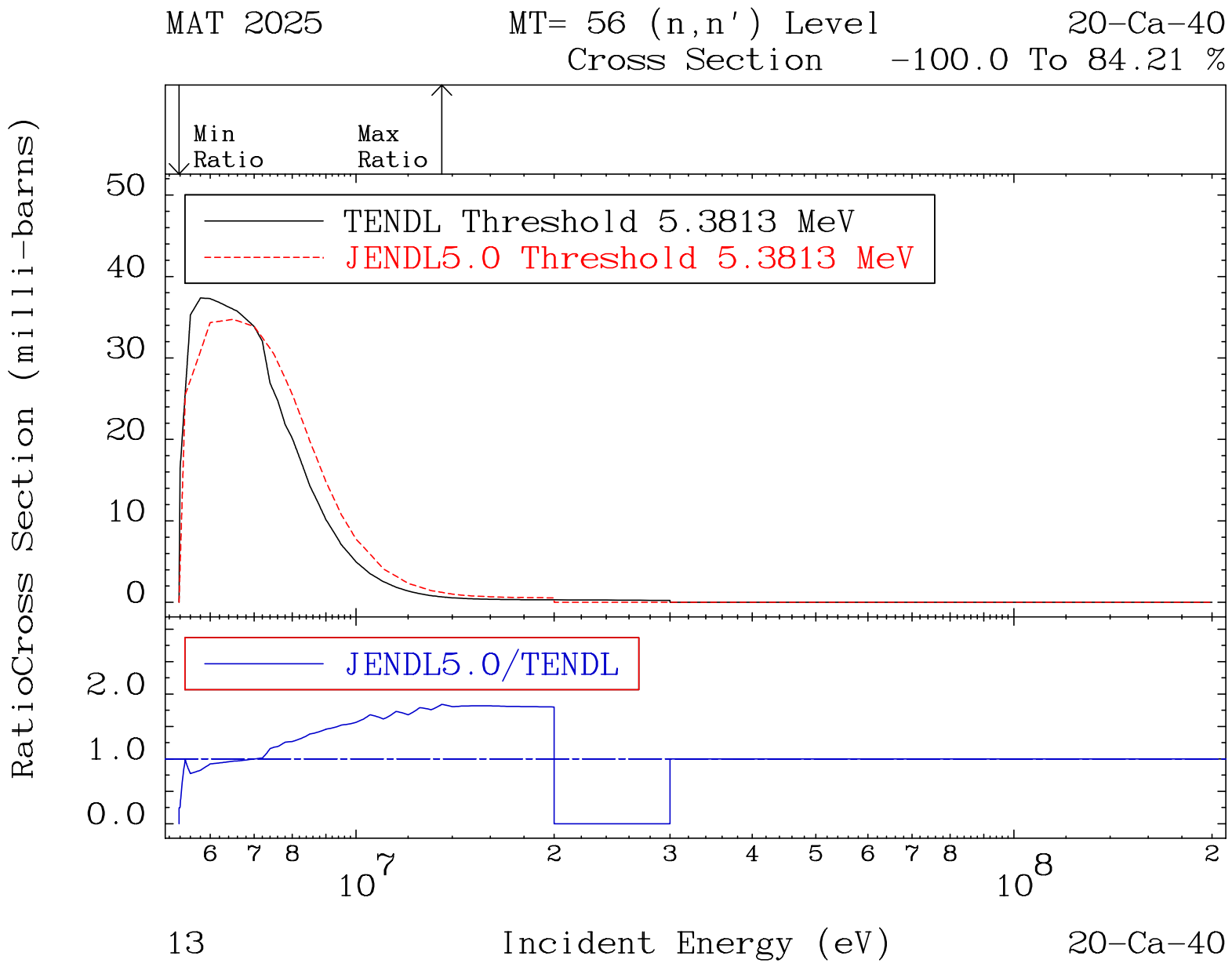

MAT 2025
MT= 51 (n,n') Level
20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4372 MeV
JENDL5.0 Threshold 3.4372 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
80
60
40
20
0
40
0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
8
Incident Energy (eV)
20-Ca-40

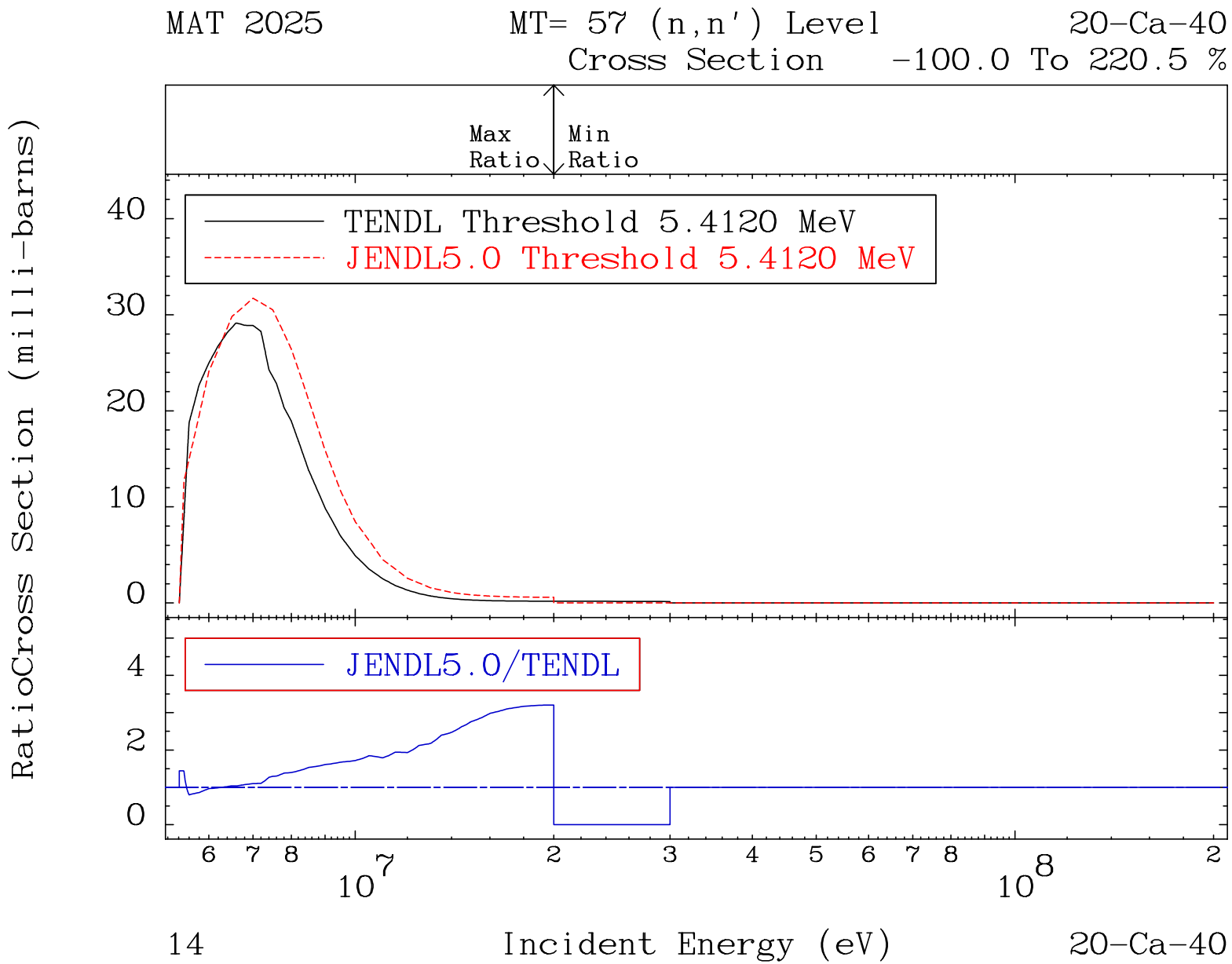

MAT 2025
MT= 52 (n,n') Level
20-Ca-40
Cross Section
-100.0 To 5.979 %
Min Ratio
Max Ratio
TENDL Threshold 3.8310 MeV
JENDL5.0 Threshold 3.8310 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
160
120
80
40
0
1.2
0.6
0.0
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
9
Incident Energy (eV)
20-Ca-40

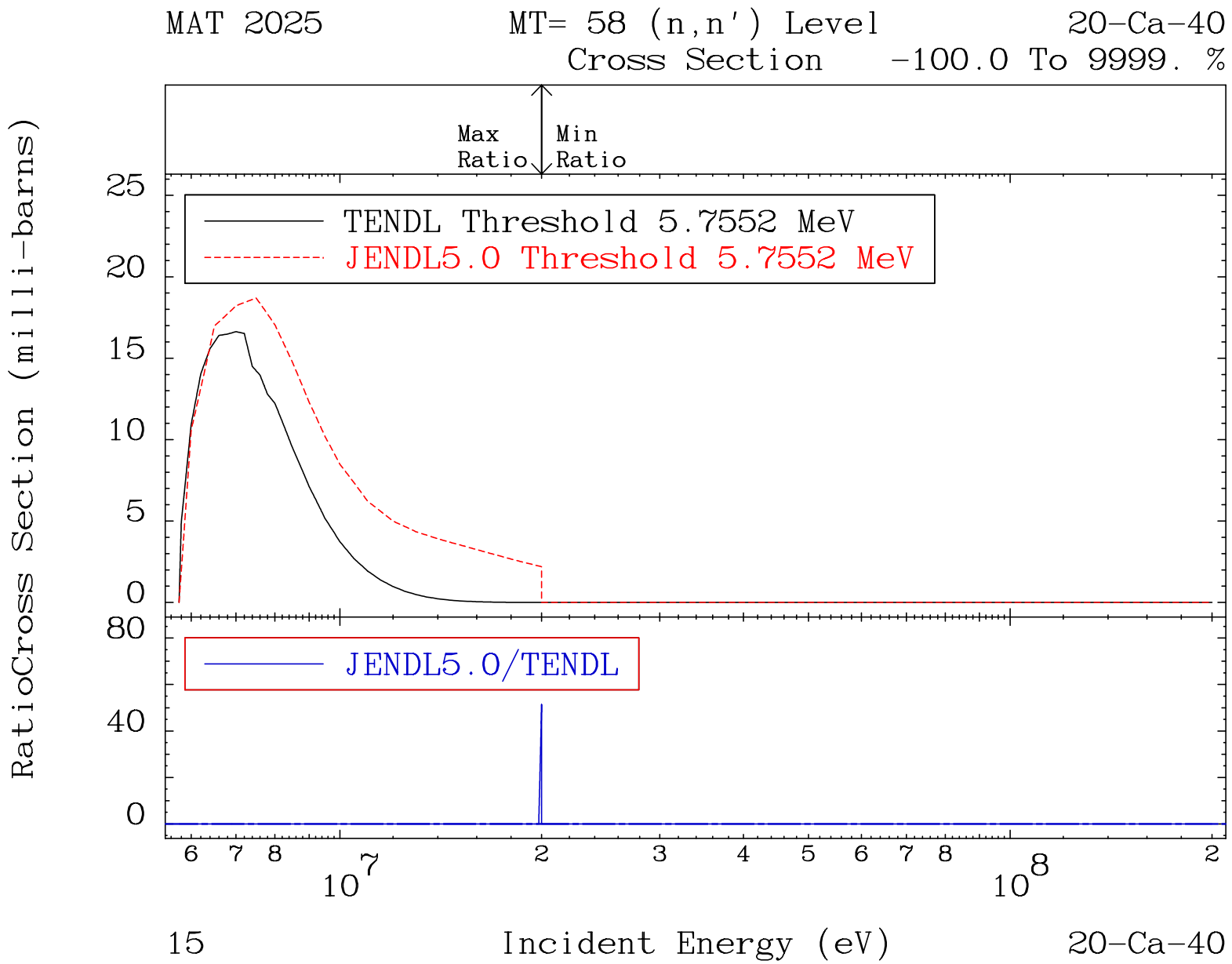

MAT 2025
MT= 53 (n,n') Level
20-Ca-40
Cross Section -100.0 To 92.06 %
Min Ratio
Max Ratio
TENDL Threshold 4.0029 MeV
JENDL5.0 Threshold 4.0029 MeV
150
100
50
0
JENDL5.0/TENDL
2.0
1.0
0.0
4 5 6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
RatioCross Section (milli-barns)
10
Incident Energy (eV)
20-Ca-40

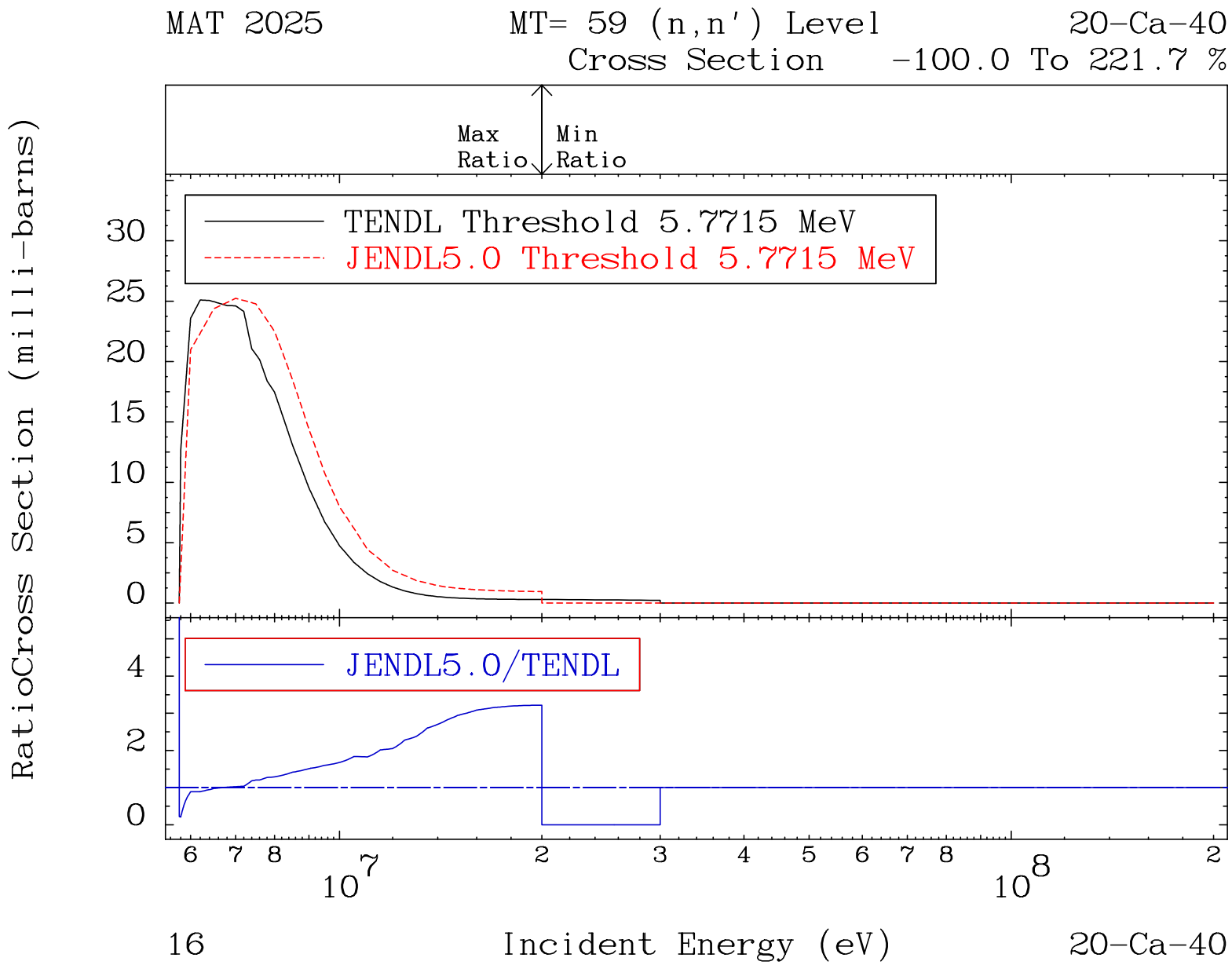

MAT 2025
MT= 54 (n,n') Level
20-Ca-40
Cross Section -100.0 To 5.294 %
Max Ratio
Min Ratio
TENDL Threshold 4.6048 MeV
JENDL5.0 Threshold 4.6048 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
30
20
10
0
1.2
0.6
0.0
5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
11
Incident Energy (eV)
20-Ca-40

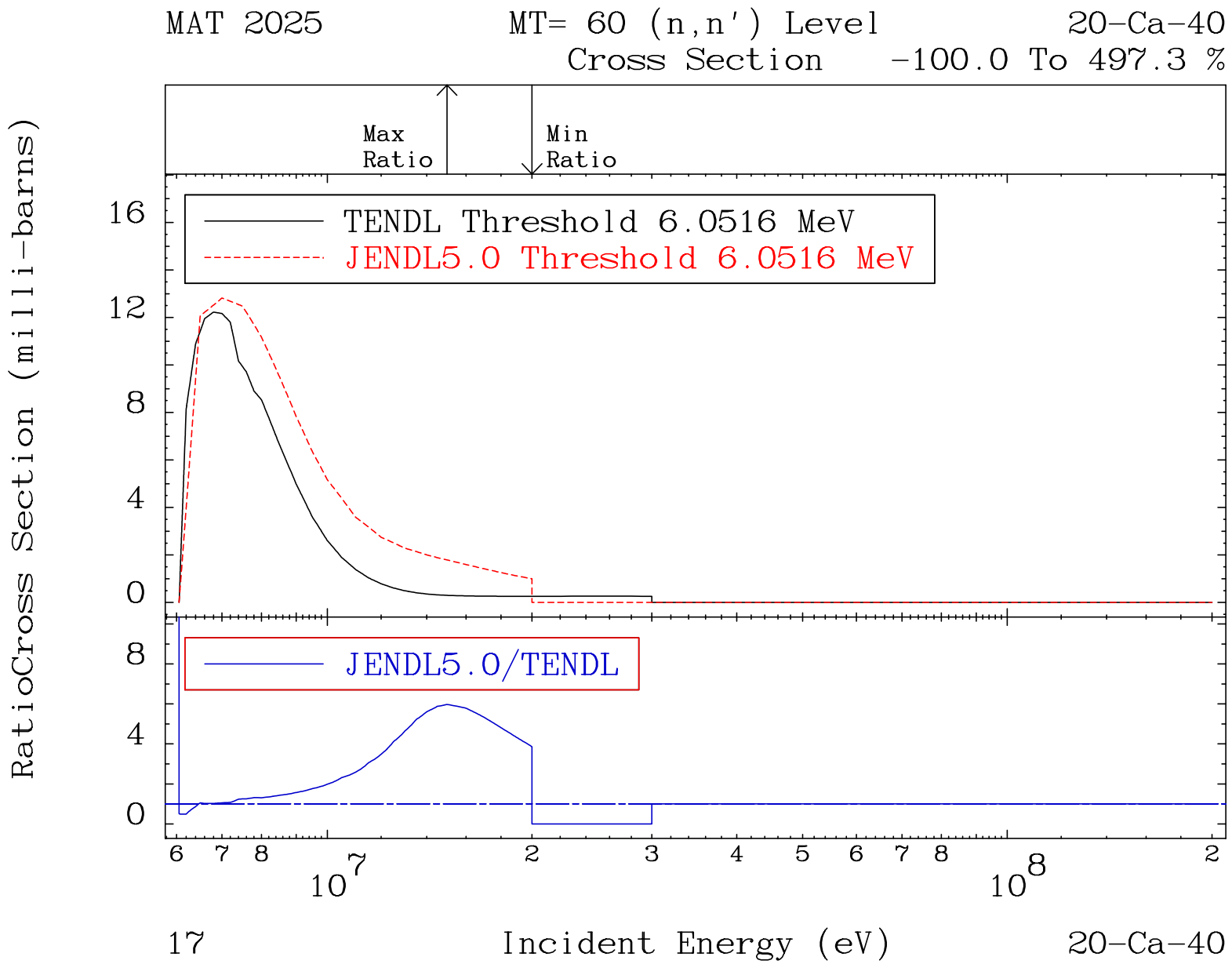

MAT 2025
MT= 55 (n,n') Level
20-Ca-40
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 5.3431 MeV
JENDL5.0 Threshold 5.3431 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
60
30
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
12
Incident Energy (eV)
20-Ca-40

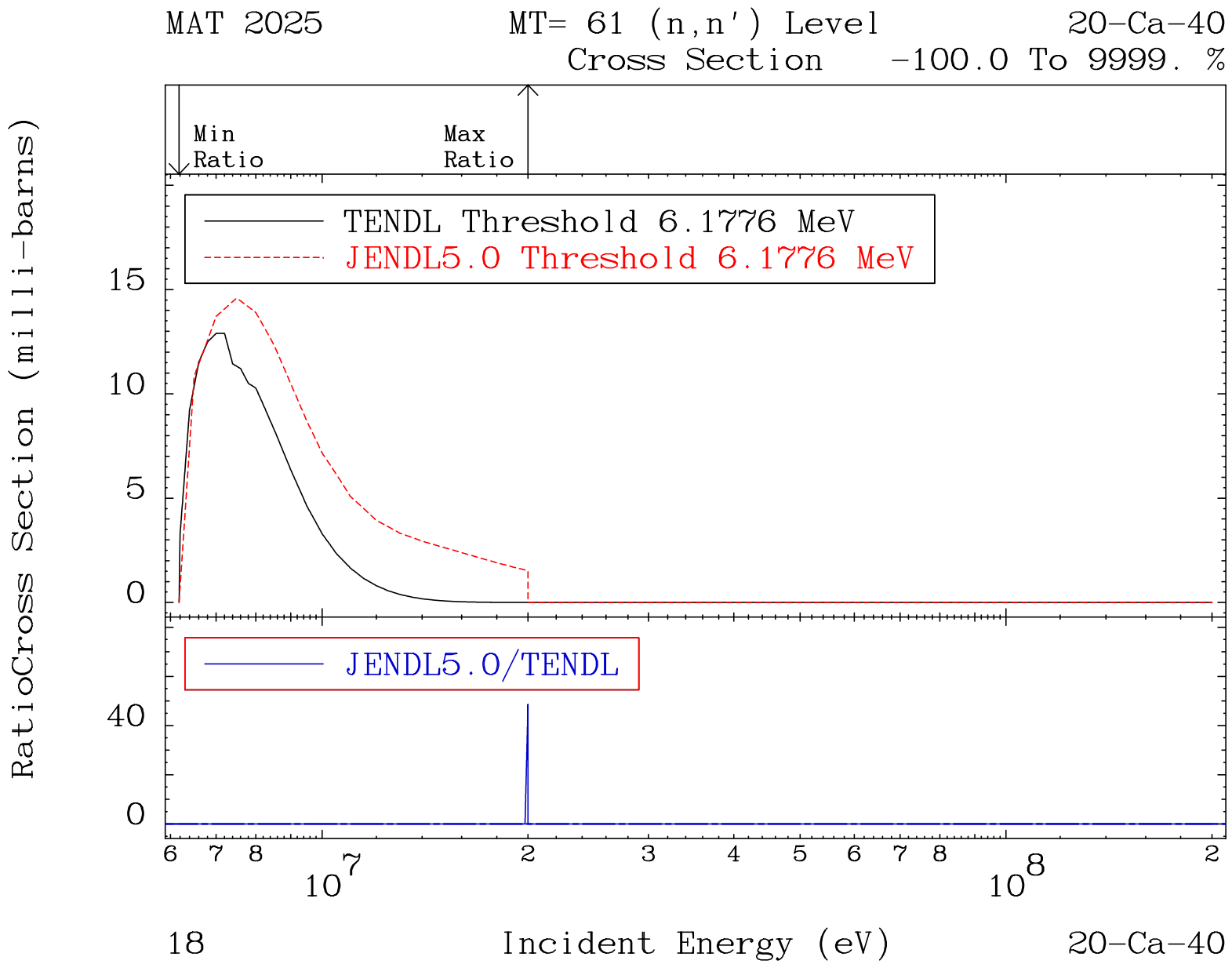

MAT 2025
MT= 56 (n,n') Level
20-Ca-40
Cross Section -100.0 To 84.21 %
Min Ratio
Max Ratio
TENDL Threshold 5.3813 MeV
JENDL5.0 Threshold 5.3813 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
50
40
30
20
10
0
2.0
1.0
0.0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
13
Incident Energy (eV)
20-Ca-40

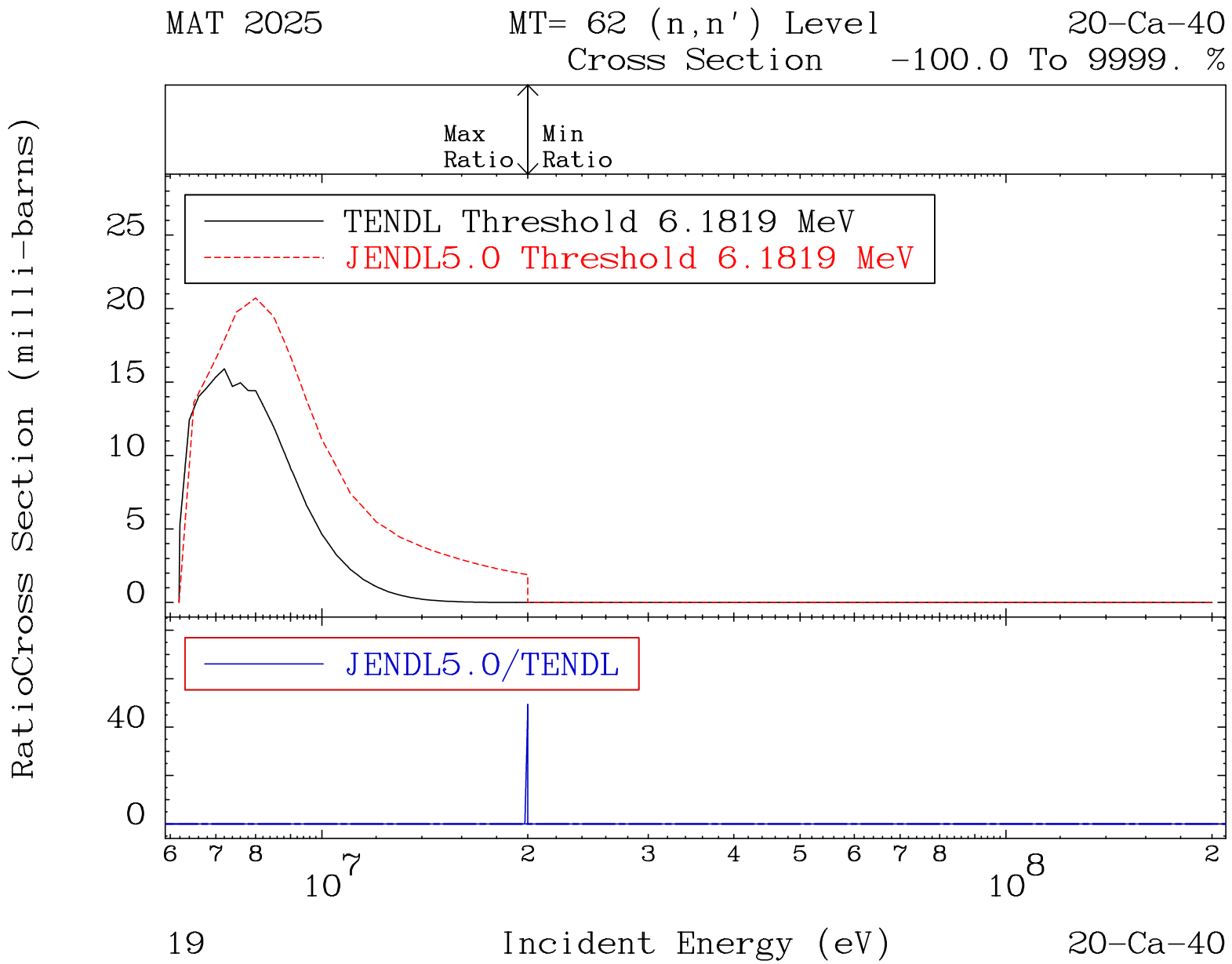

MAT 2025
MT= 57 (n,n') Level
20-Ca-40
Cross Section
-100.0 To 220.5 %
Max Ratio
Min Ratio
TENDL Threshold 5.4120 MeV
JENDL5.0 Threshold 5.4120 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
4
2
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
14
Incident Energy (eV)
20-Ca-40

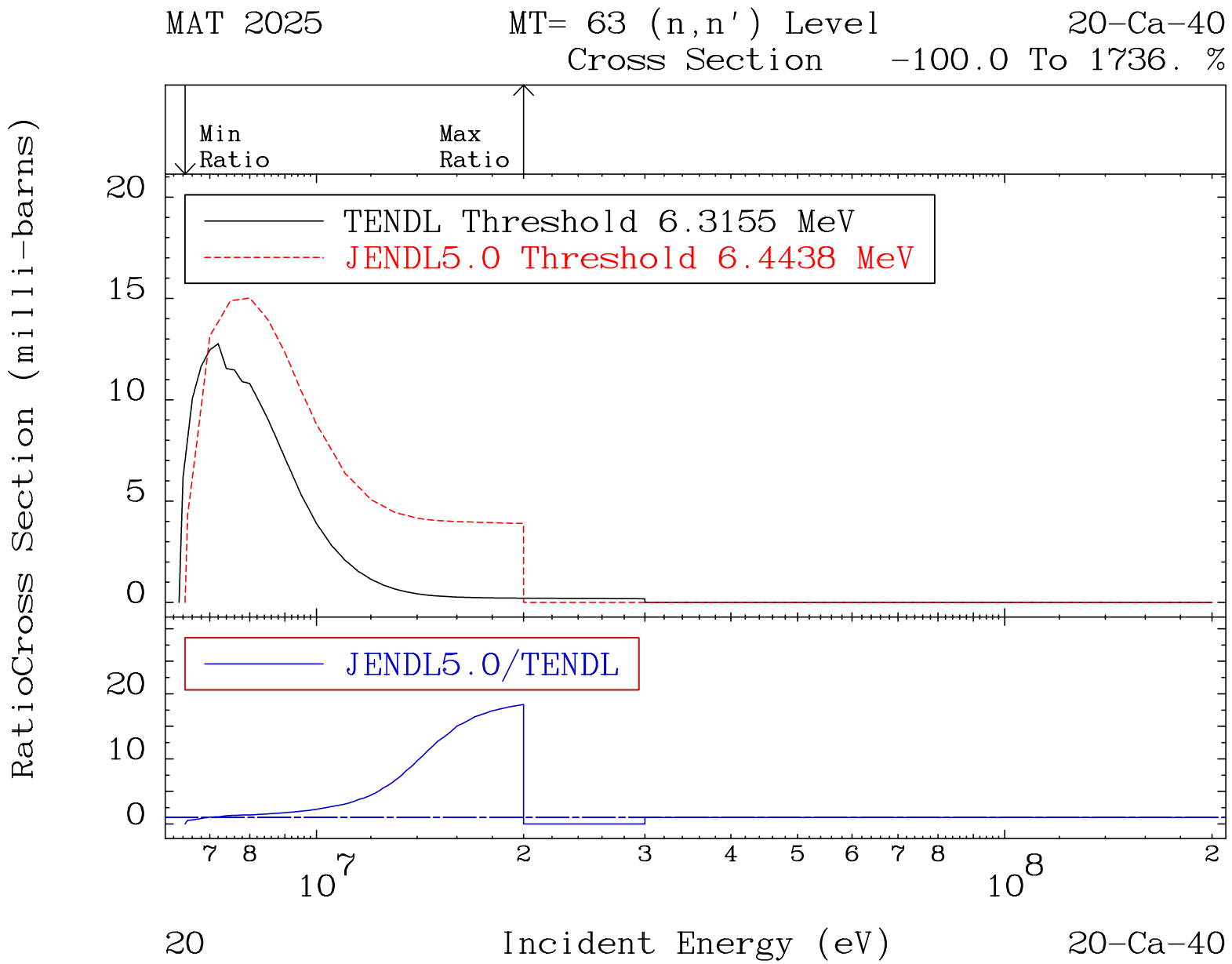

MAT 2025
MT= 58 (n,n') Level
20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 5.7552 MeV
JENDL5.0 Threshold 5.7552 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
15
20-Ca-40

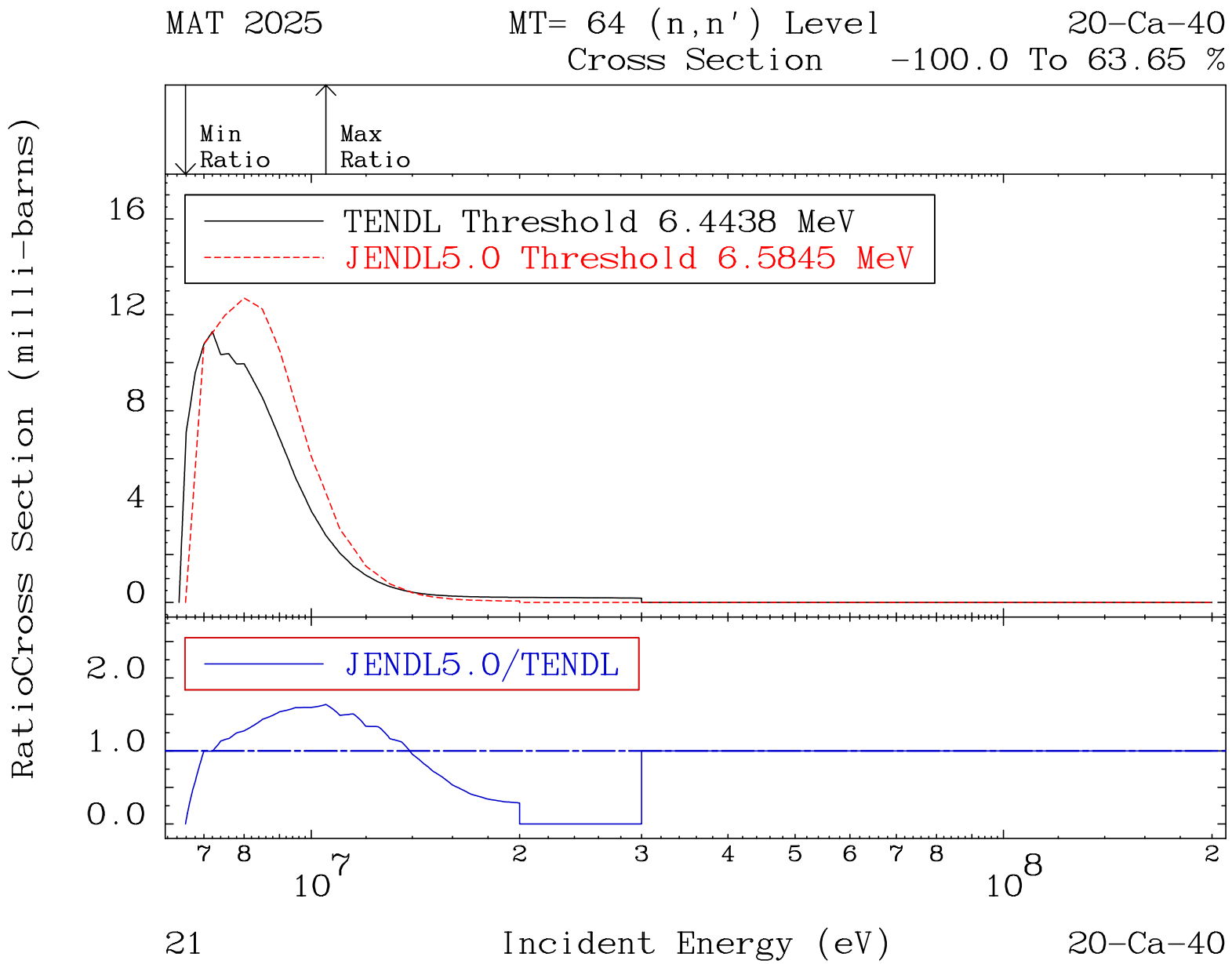

MAT 2025
MT= 59 (n,n') Level
20-Ca-40
Cross Section
-100.0 To 221.7 %
Max Ratio
Min Ratio
TENDL Threshold 5.7715 MeV
JENDL5.0 Threshold 5.7715 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
16
20-Ca-40

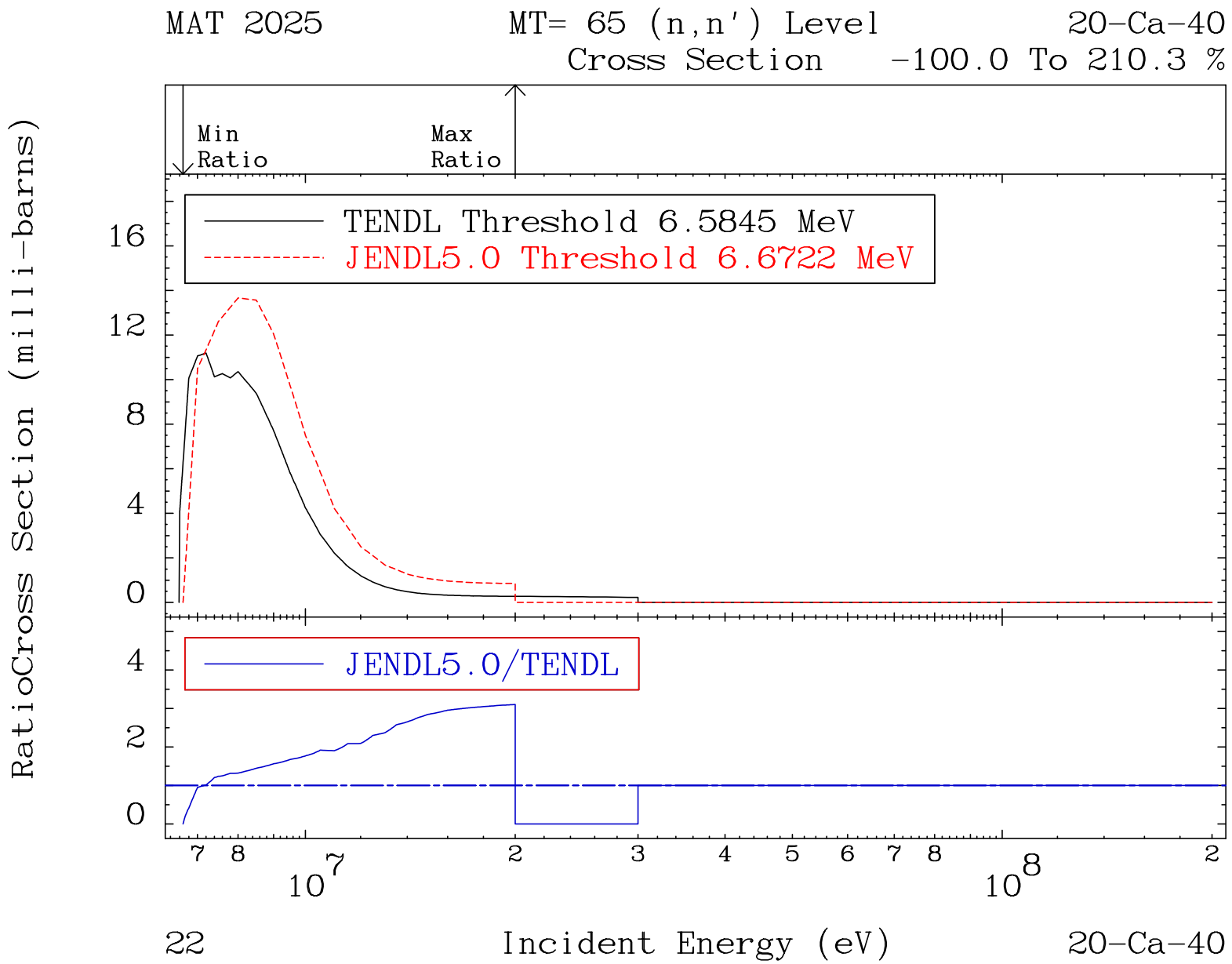

MAT 2025
MT= 60 (n,n') Level
20-Ca-40
Cross Section -100.0 To 497.3 %
Max Ratio
Min Ratio
TENDL Threshold 6.0516 MeV
JENDL5.0 Threshold 6.0516 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
8
4
0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
17
Incident Energy (eV)
20-Ca-40

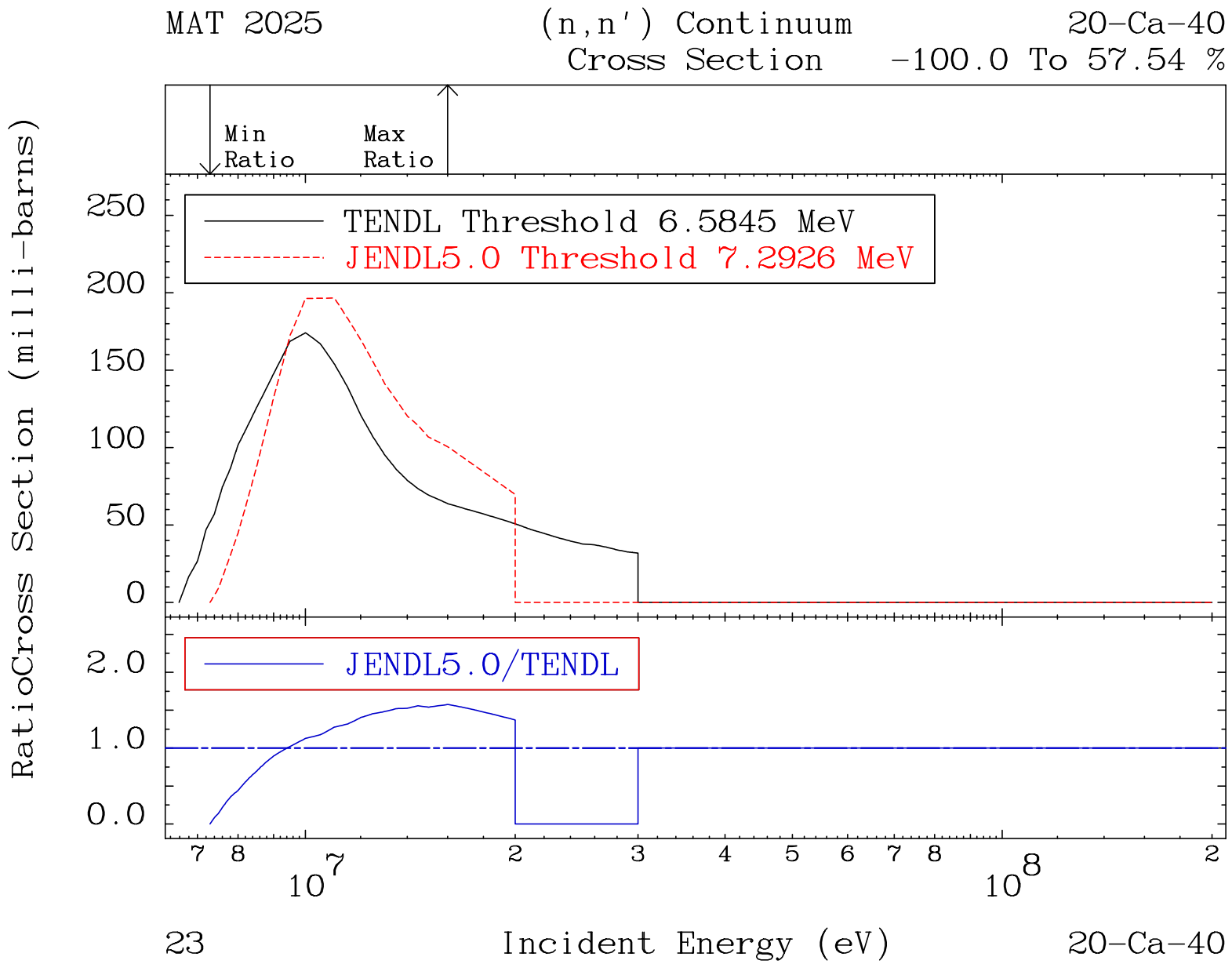

MAT 2025
MT= 61 (n,n') Level
20-Ca-40
Cross Section -100.0 To 9999. %
Min Ratio
Max Ratio
TENDL Threshold 6.1776 MeV
JENDL5.0 Threshold 6.1776 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
15
10
5
0
40
0
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
18
Incident Energy (eV)
20-Ca-40

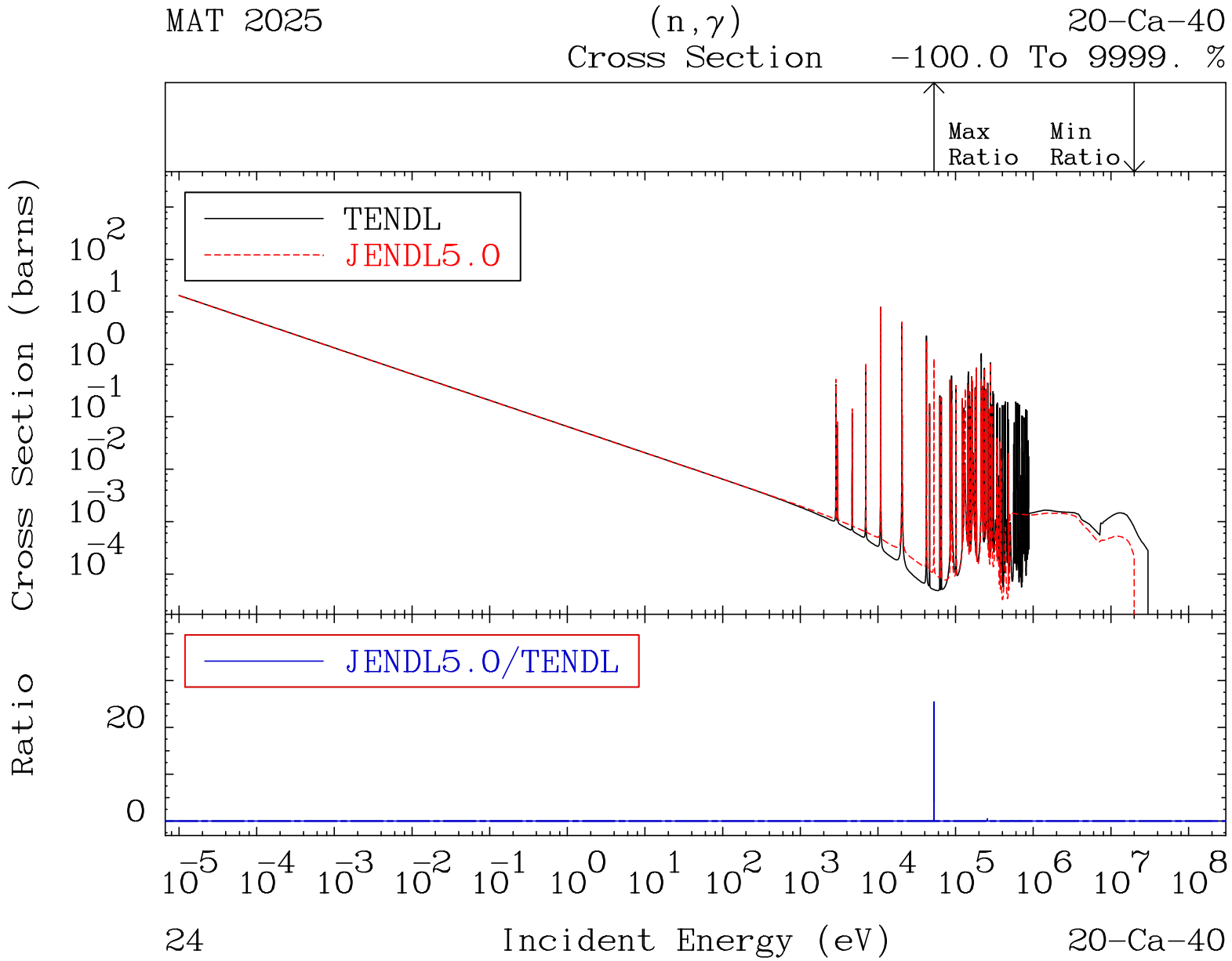

MAT 2025
MT= 62 (n,n') Level
20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 6.1819 MeV
JENDL5.0 Threshold 6.1819 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
19
20-Ca-40

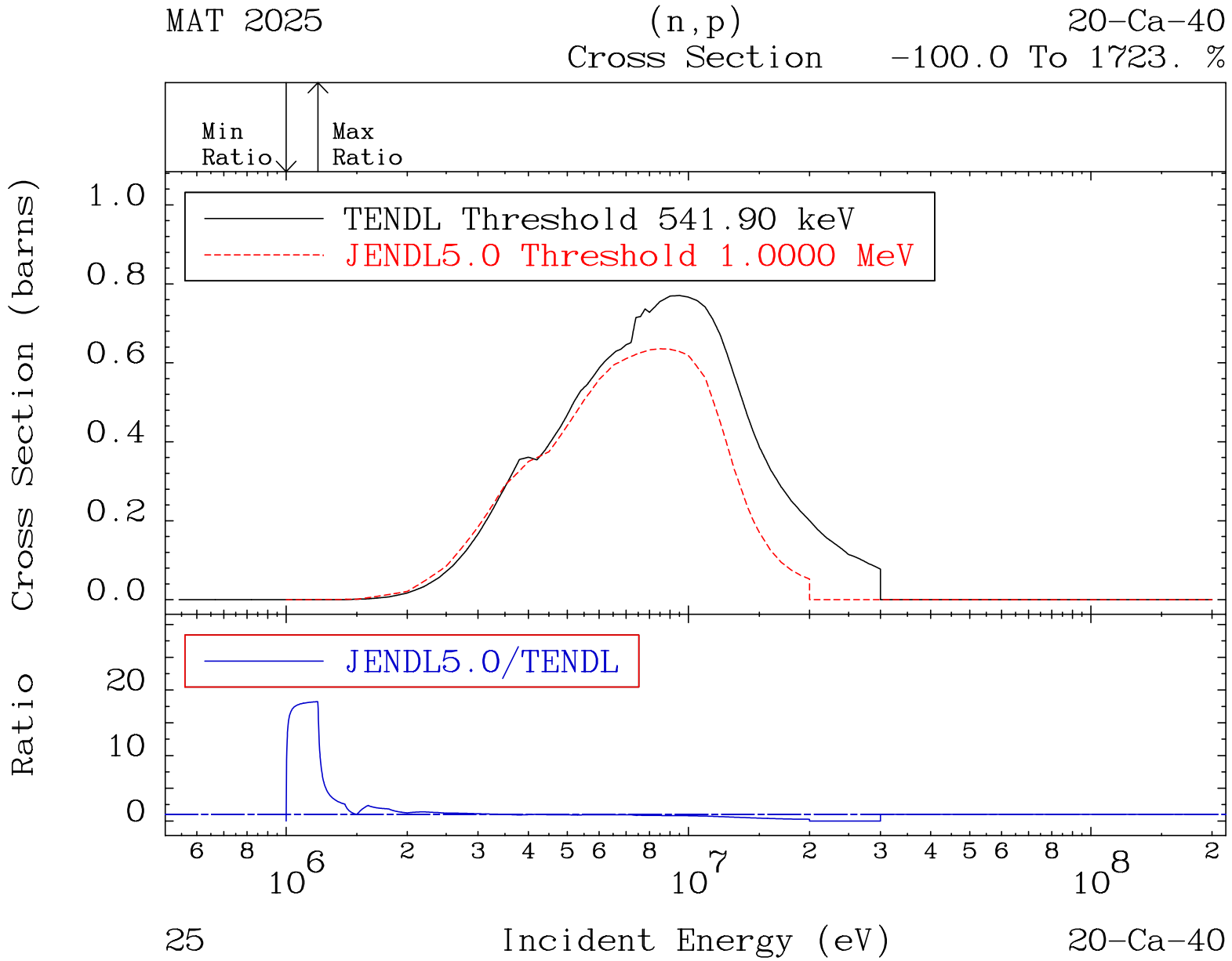

MAT 2025
MT= 63 (n,n') Level
20-Ca-40
Cross Section -100.0 To 1736. %
Min Ratio
Max Ratio
TENDL Threshold 6.3155 MeV
JENDL5.0 Threshold 6.4438 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
20-Ca-40
20

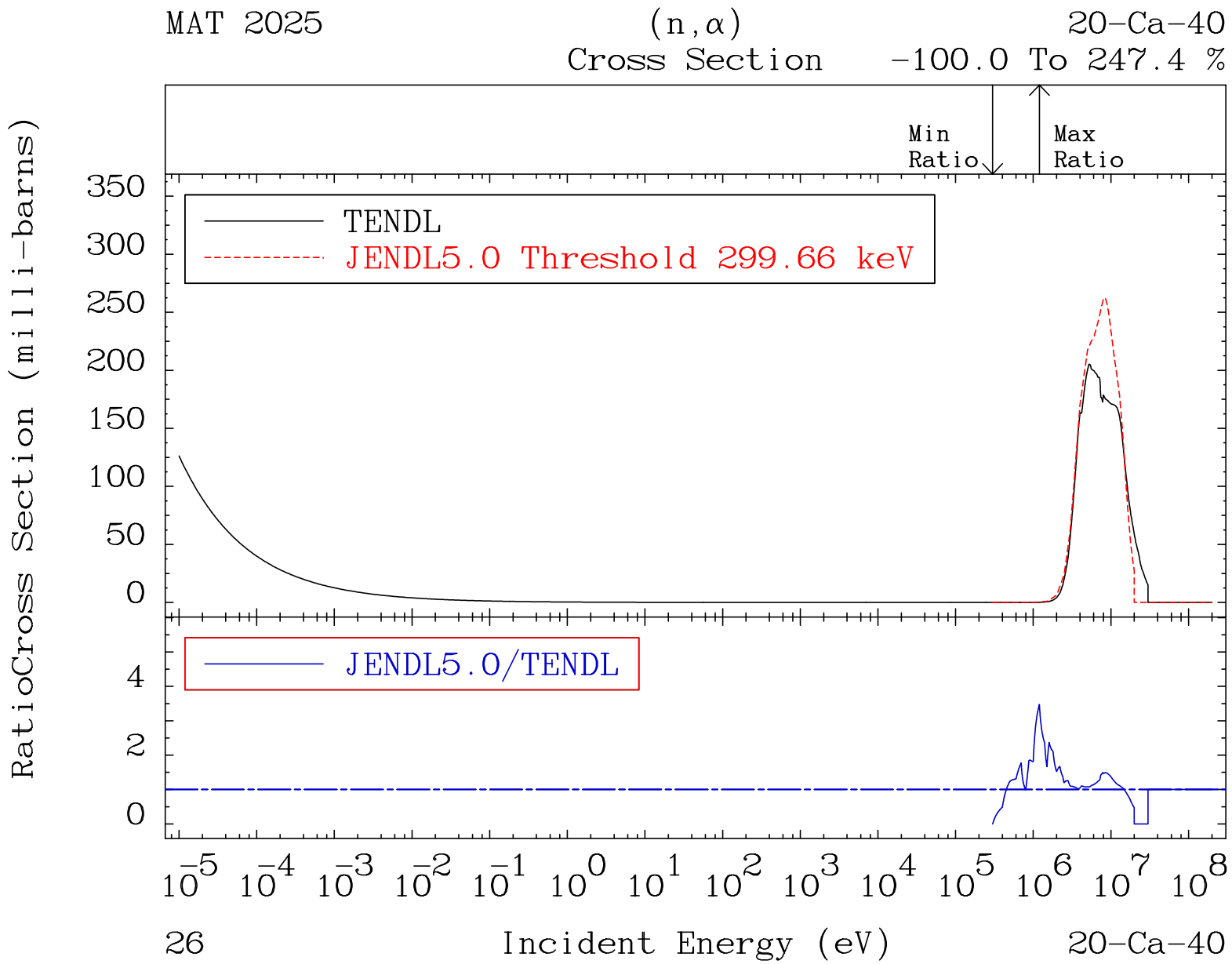

MAT 2025
MT= 64 (n,n') Level
20-Ca-40
Cross Section -100.0 To 63.65 %
Min Ratio
Max Ratio
TENDL Threshold 6.4438 MeV
JENDL5.0 Threshold 6.5845 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
21
Incident Energy (eV)
20-Ca-40

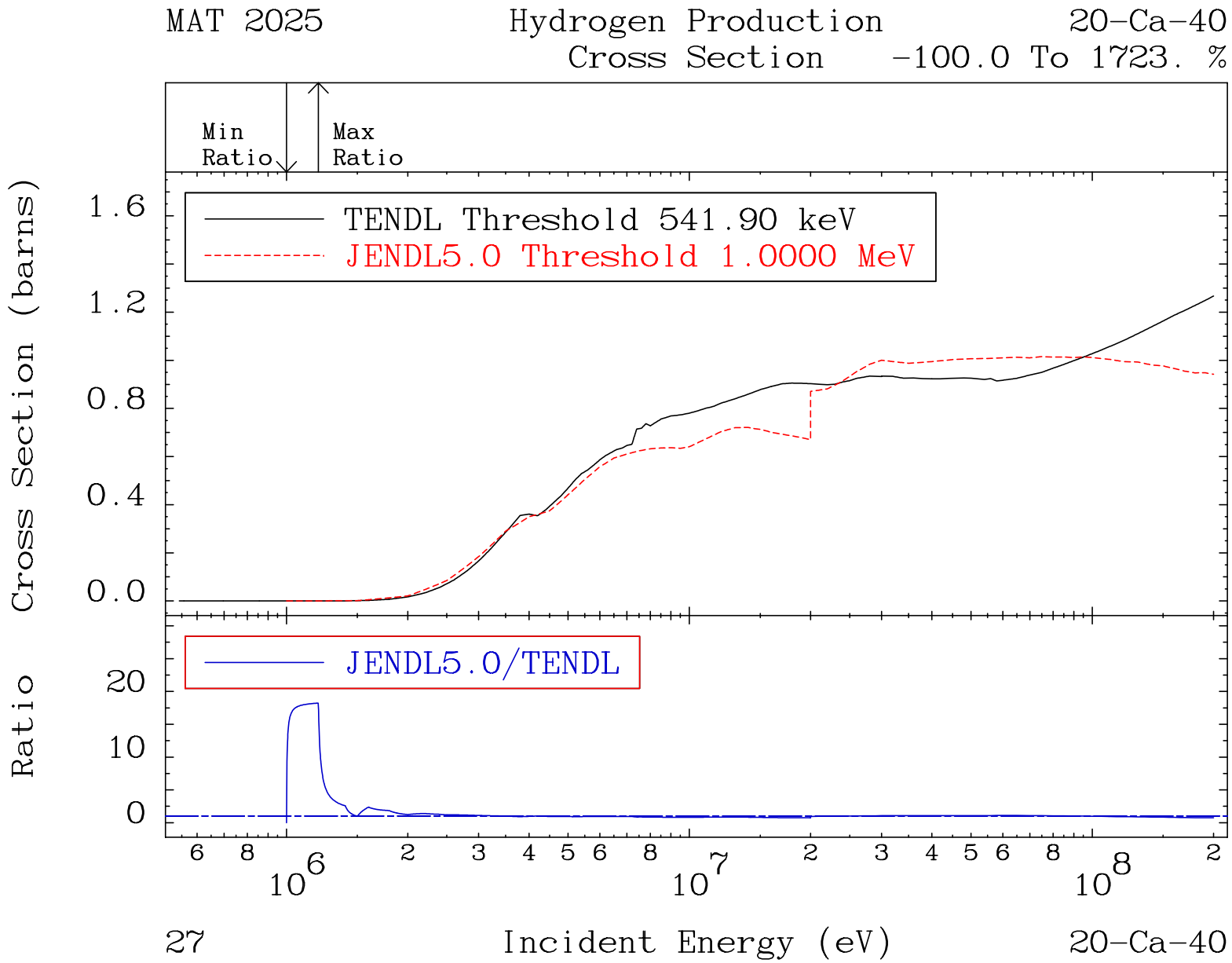

MAT 2025
MT= 65 (n,n') Level
20-Ca-40
Cross Section -100.0 To 210.3 %
Min Ratio
Max Ratio
TENDL Threshold 6.5845 MeV
JENDL5.0 Threshold 6.6722 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
16
12
8
4
0
4
2
0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
22
Incident Energy (eV)
20-Ca-40

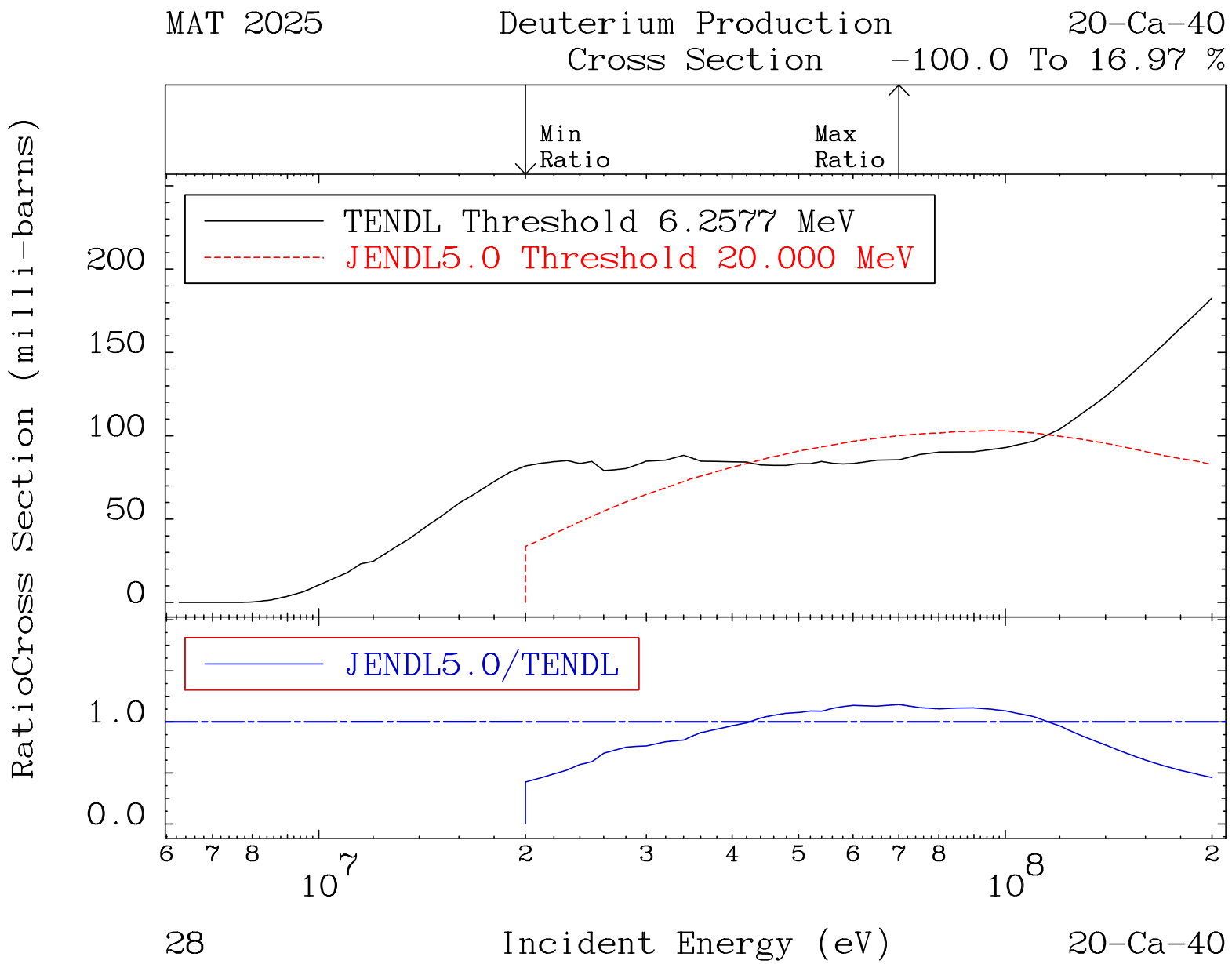

MAT 2025
(n,n') Continuum
Cross Section
20-Ca-40
-100.0 To 57.54 %
Min Ratio
Max Ratio
TENDL Threshold 6.5845 MeV
JENDL5.0 Threshold 7.2926 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
2.0
1.0
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
23
Incident Energy (eV)
20-Ca-40

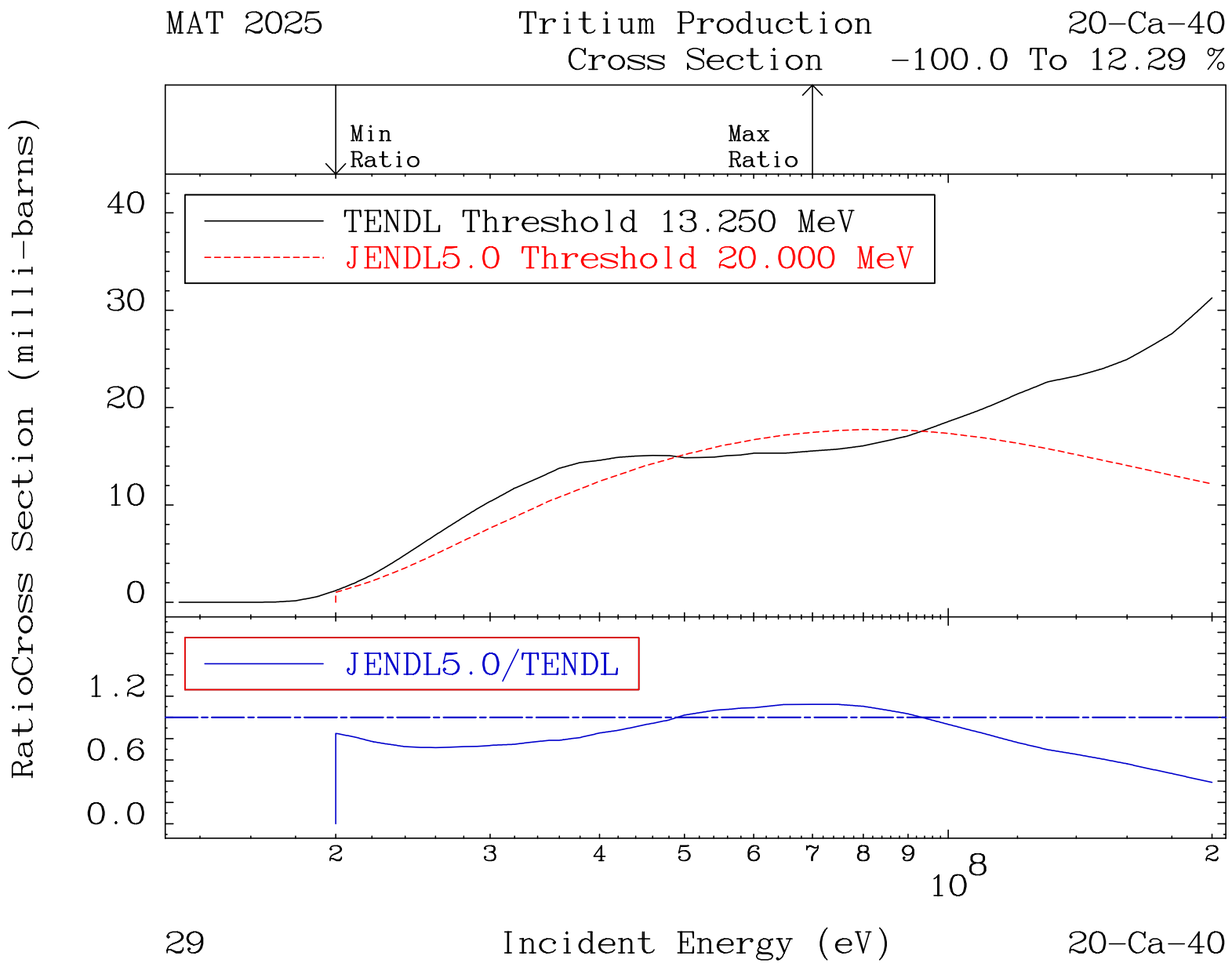

MAT 2025
(n,γ)
Cross Section
20-Ca-40
-100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
24
20-Ca-40

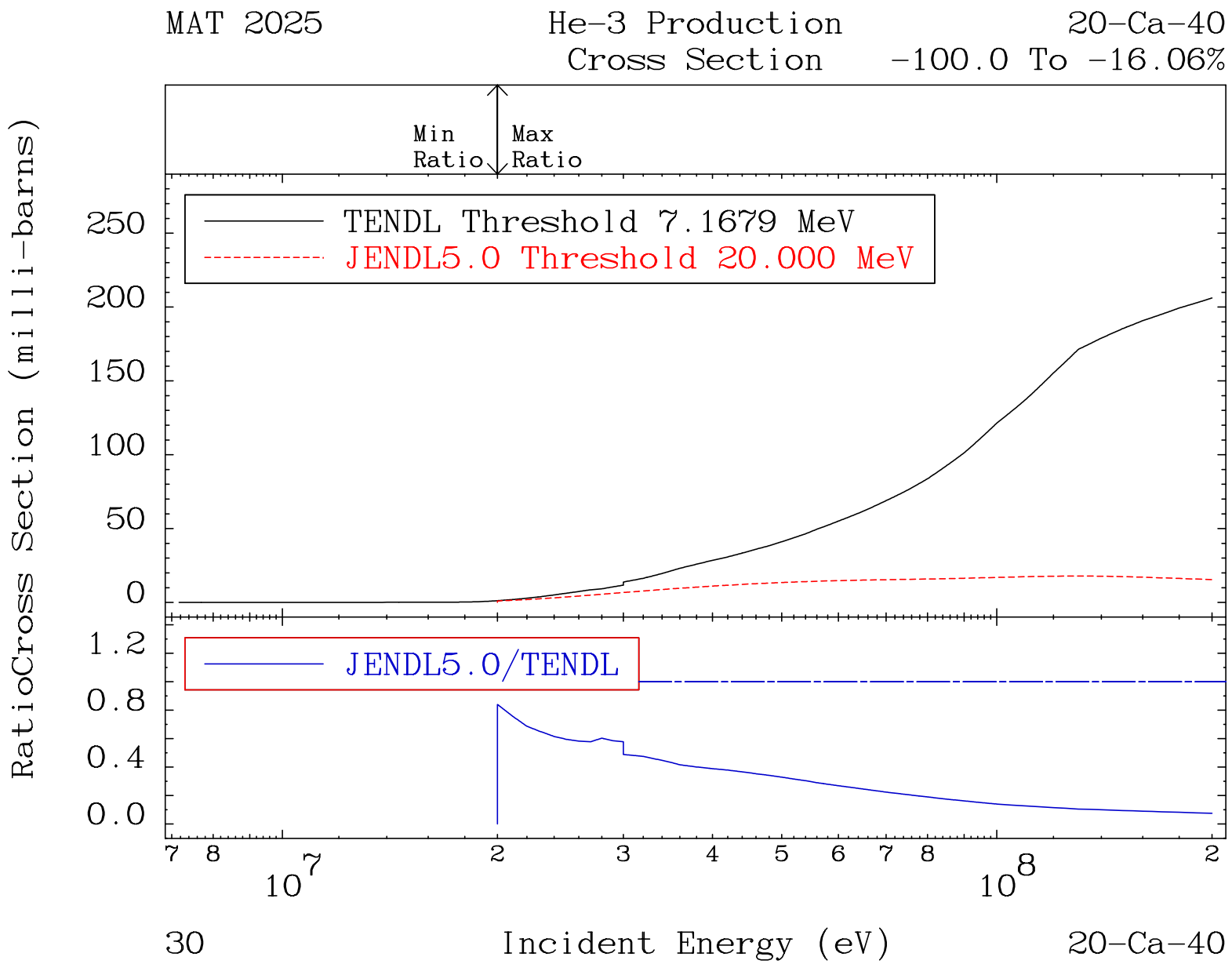

MAT 2025
(n,p)
20-Ca-40
Cross Section
-100.0 To 1723. %
Min Ratio
Max Ratio
TENDL Threshold 541.90 keV
JENDL5.0 Threshold 1.0000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.0
0.8
0.6
0.4
0.2
0.0
20
10
0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
Incident Energy (eV)
25
20-Ca-40

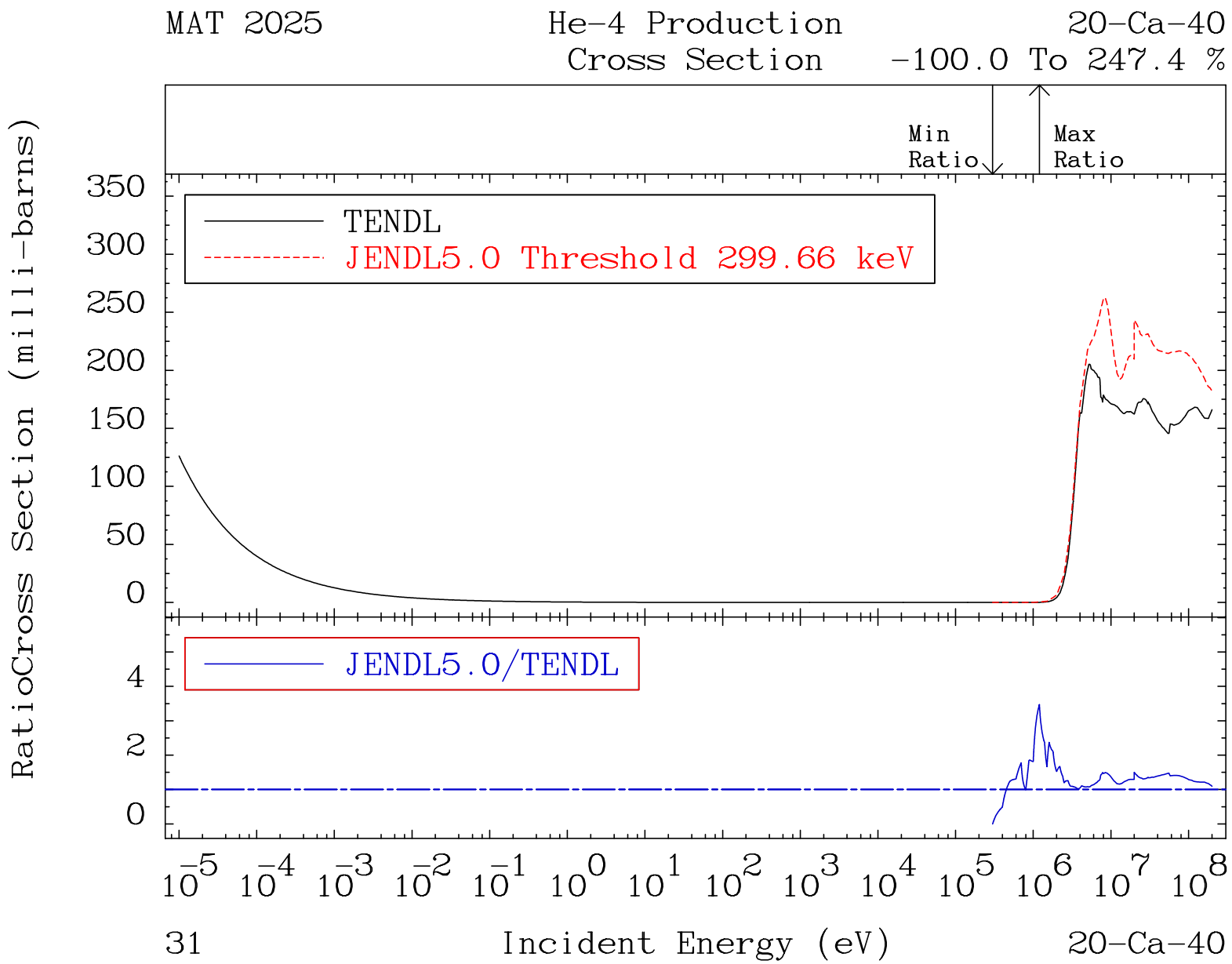

MAT 2025
(n,α)
Cross Section
20-Ca-40
-100.0 To 247.4 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 299.66 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
26
Incident Energy (eV)
20-Ca-40

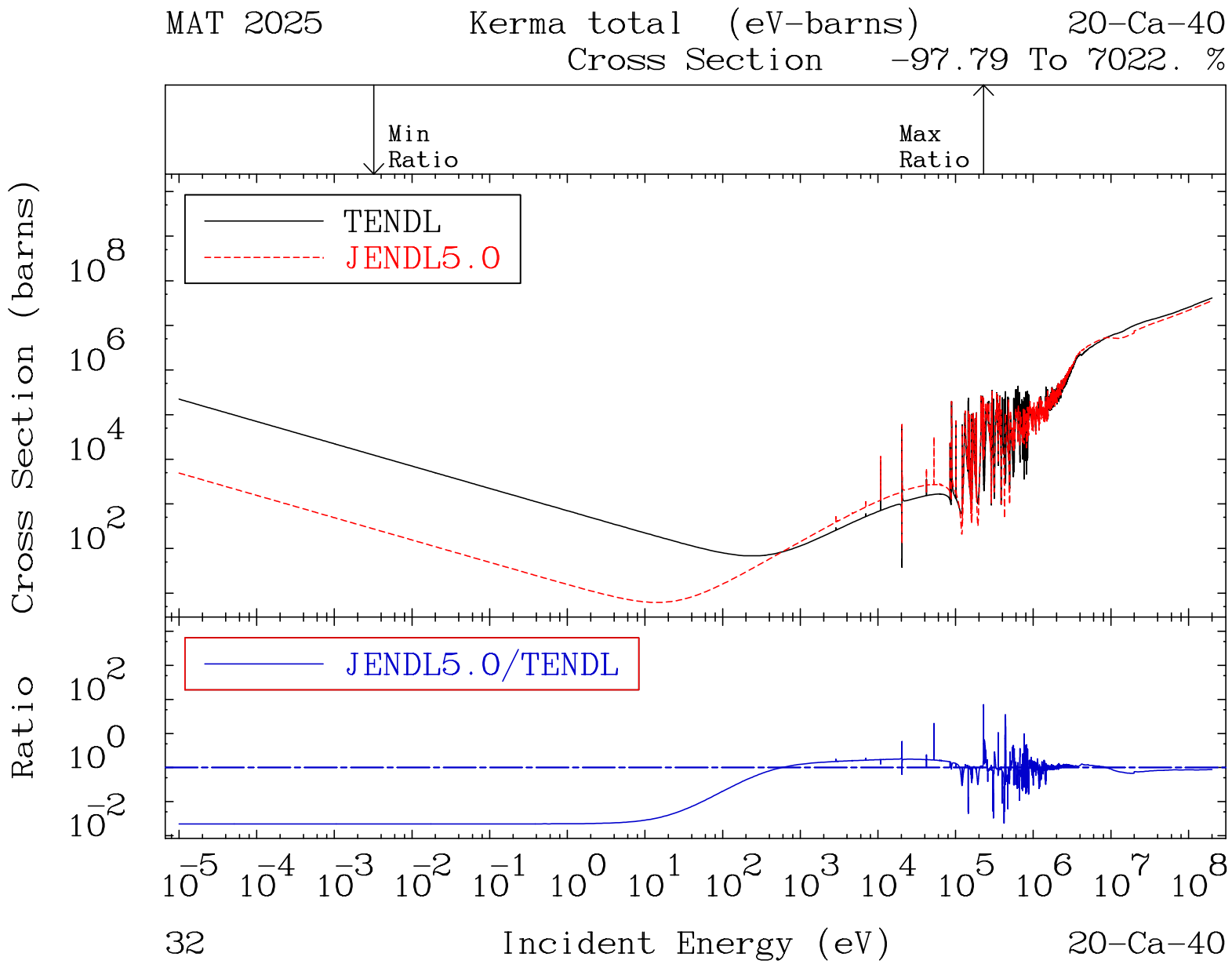

MAT 2025
Hydrogen Production
20-Ca-40
Cross Section -100.0 To 1723. %
Min Ratio
Max Ratio
TENDL Threshold 541.90 keV
JENDL5.0 Threshold 1.0000 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.6
1.2
0.8
0.4
0.0
20
10
0
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
27
Incident Energy (eV)
20-Ca-40

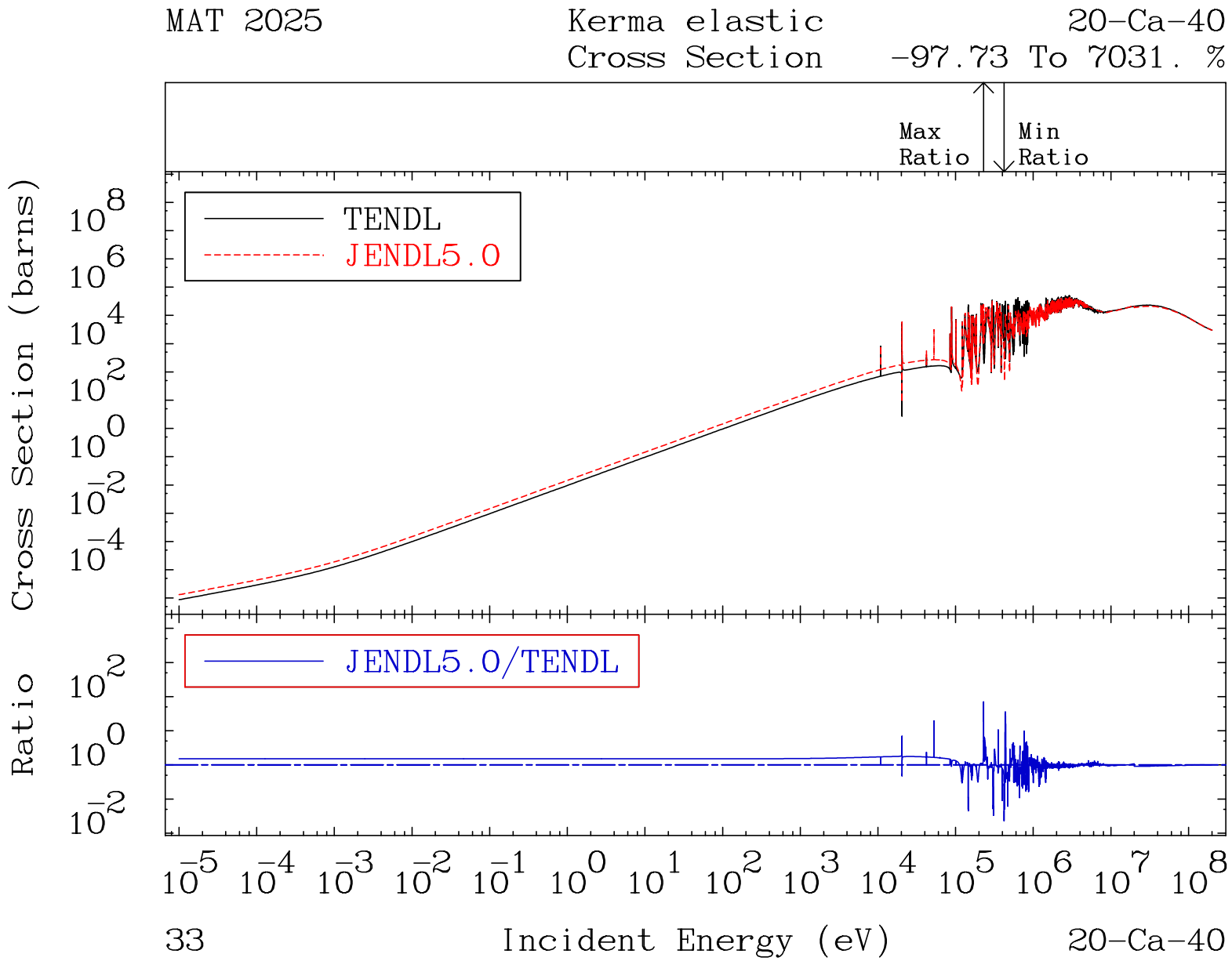

MAT 2025
Deuterium Production
20-Ca-40
Cross Section -100.0 To 16.97 %
Min Ratio
Max Ratio
TENDL Threshold 6.2577 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
200
150
100
50
0
1.0
0.0
6 7 8 10^7 2 3 4 5 6 7 8 10^8 2
28
Incident Energy (eV)
20-Ca-40

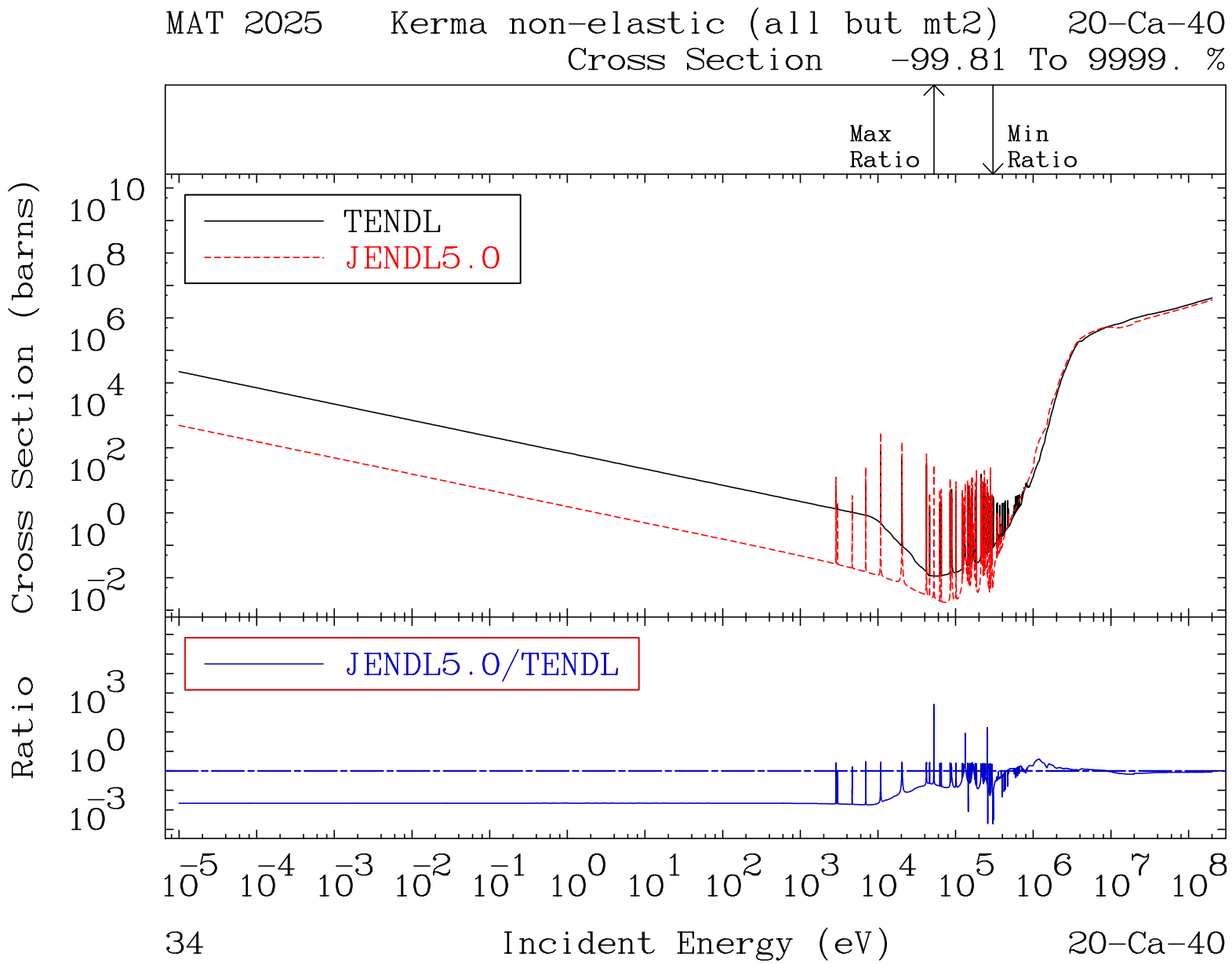

MAT 2025
Tritium Production
Cross Section
20-Ca-40
-100.0 To 12.29 %
Min Ratio
Max Ratio
TENDL Threshold 13.250 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
40
30
20
10
0
1.2
0.6
0.0
2
3
4
5
6
7
8
9
10^8
2
29
Incident Energy (eV)
20-Ca-40

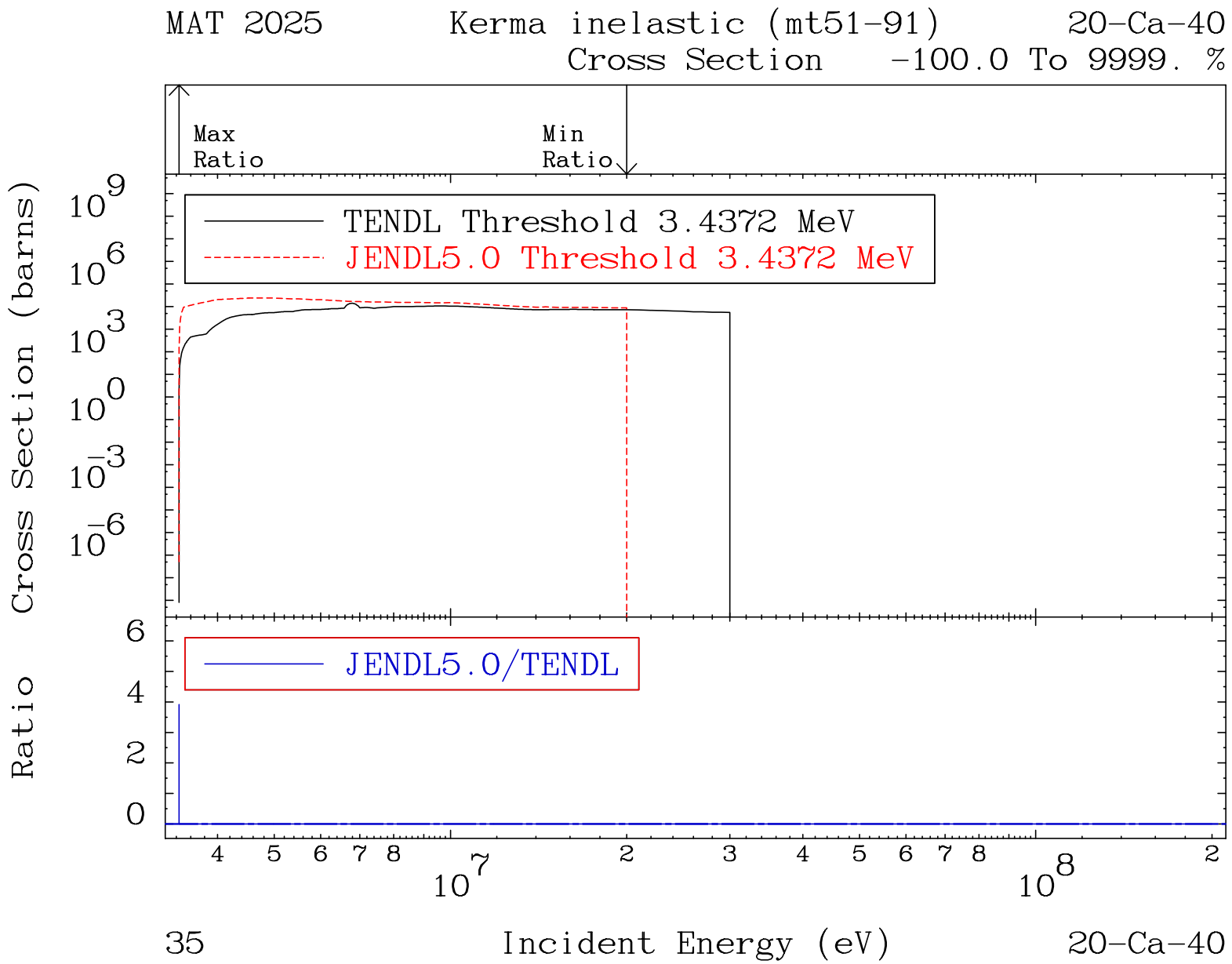

MAT 2025
He-3 Production
Cross Section
20-Ca-40
-100.0 To -16.06%
Min Ratio
Max Ratio
TENDL Threshold 7.1679 MeV
JENDL5.0 Threshold 20.000 MeV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
1.2
0.8
0.4
0.0
7 8 10^7 2 3 4 5 6 7 8 10^8 2
30
Incident Energy (eV)
20-Ca-40

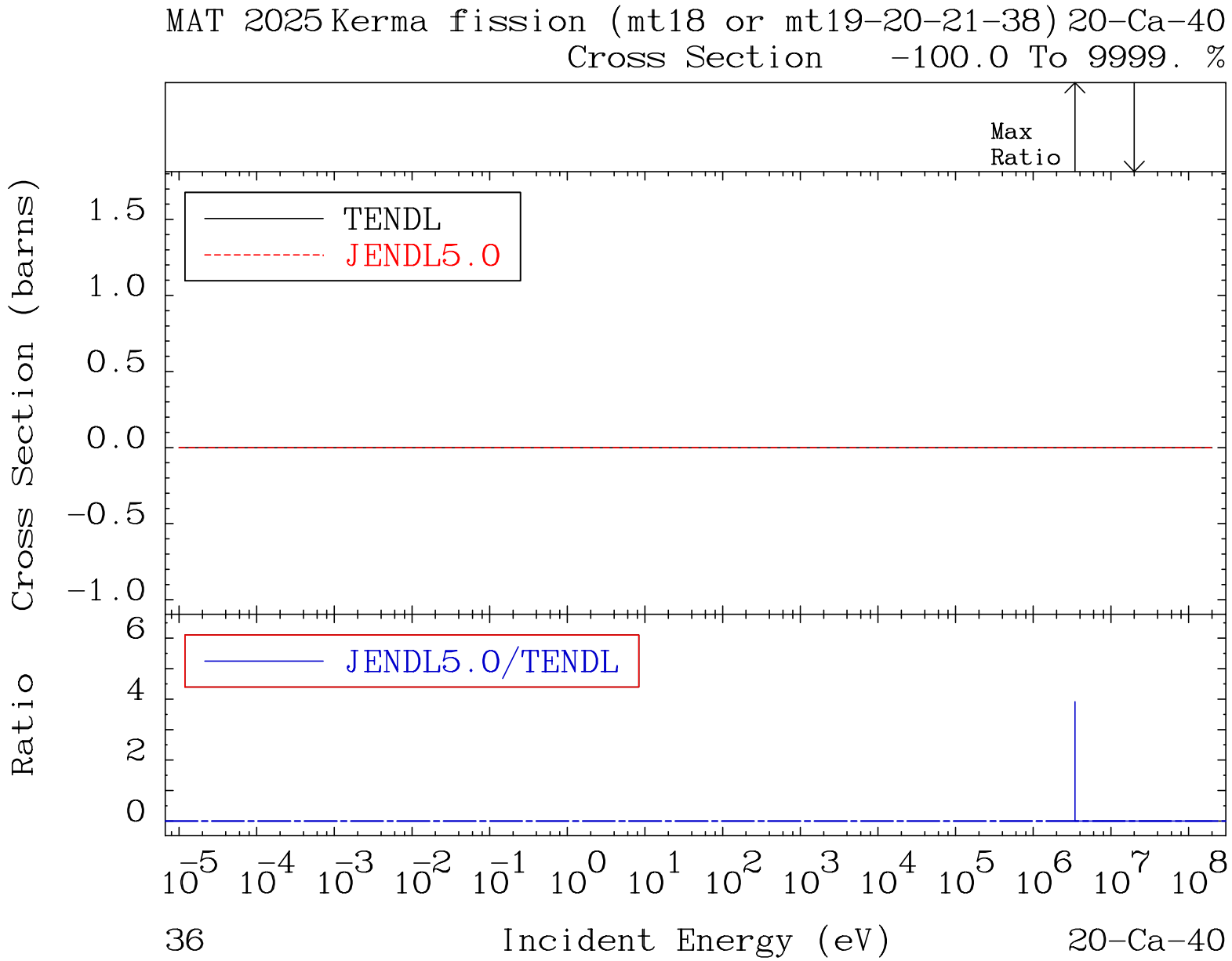

MAT 2025
He-4 Production
Cross Section
20-Ca-40
-100.0 To 247.4 %
Min Ratio
Max Ratio
TENDL
JENDL5.0 Threshold 299.66 keV
JENDL5.0/TENDL
RatioCross Section (milli-barns)
350
300
250
200
150
100
50
0
4
2
0
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
31
Incident Energy (eV)
20-Ca-40

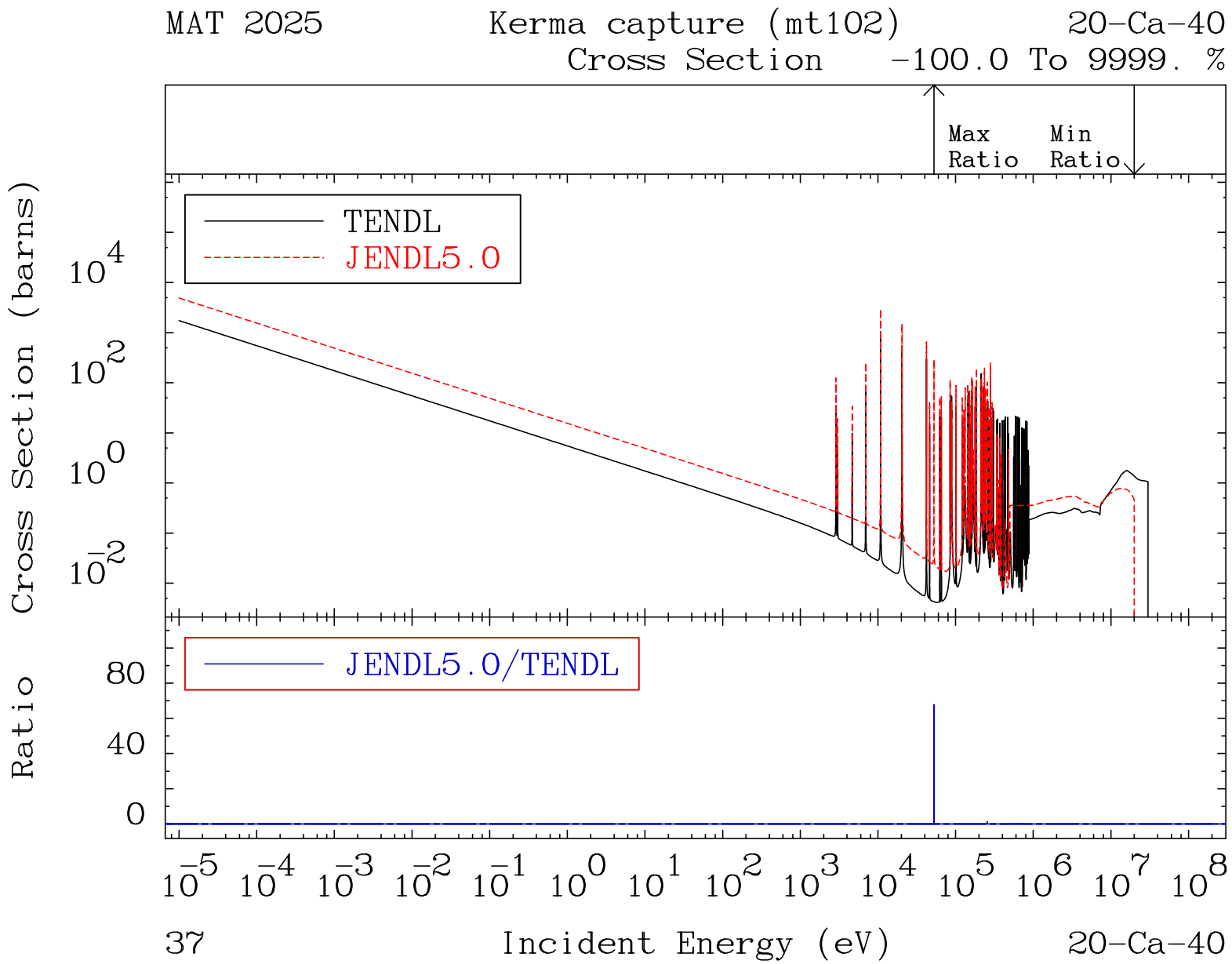

MAT 2025
Kerma total (eV-barns)
20-Ca-40
Cross Section -97.79 To 7022. %
Min Ratio
Max Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
32
20-Ca-40

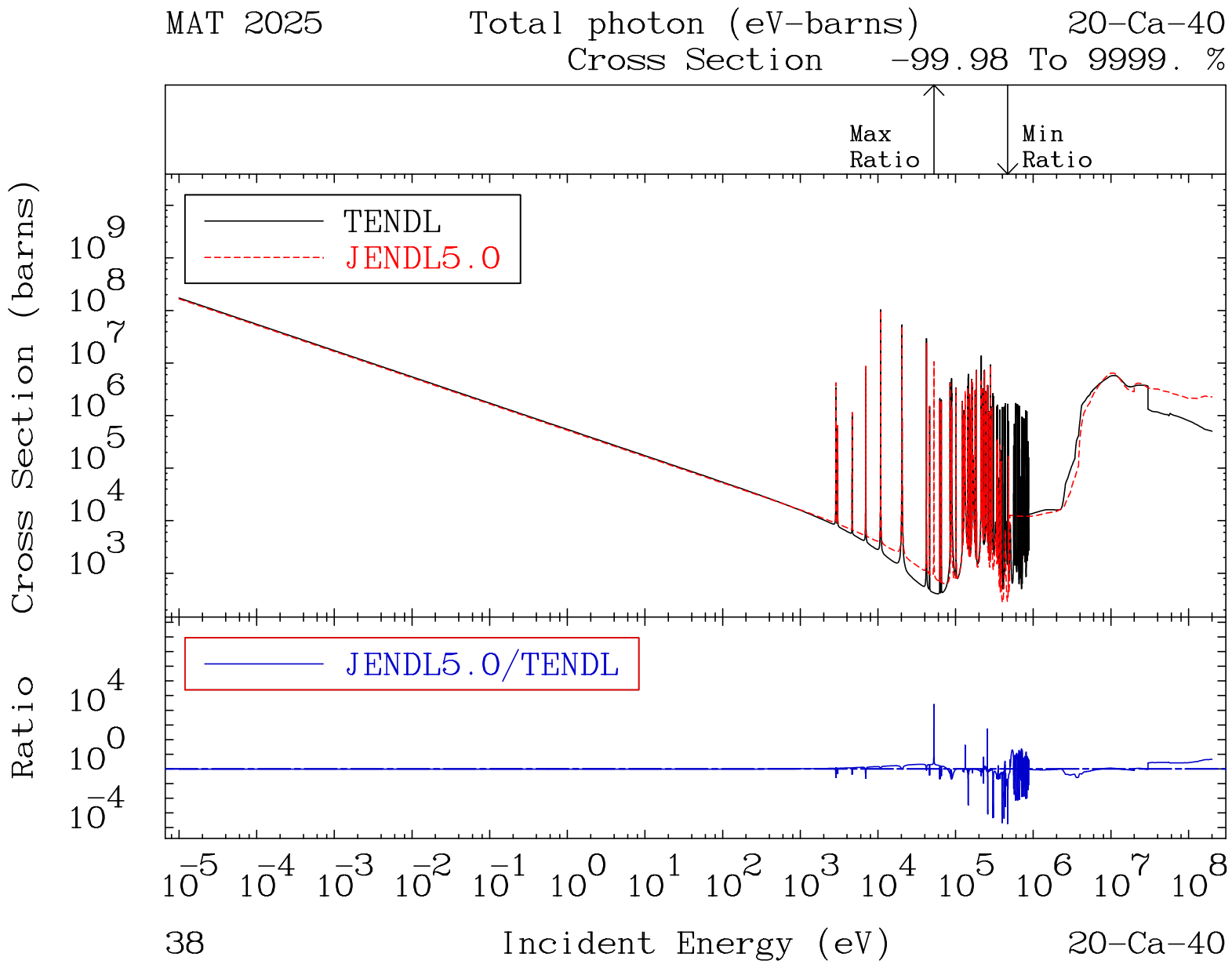

MAT 2025
Kerma elastic
Cross Section
20-Ca-40
-97.73 To 7031. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
33
20-Ca-40

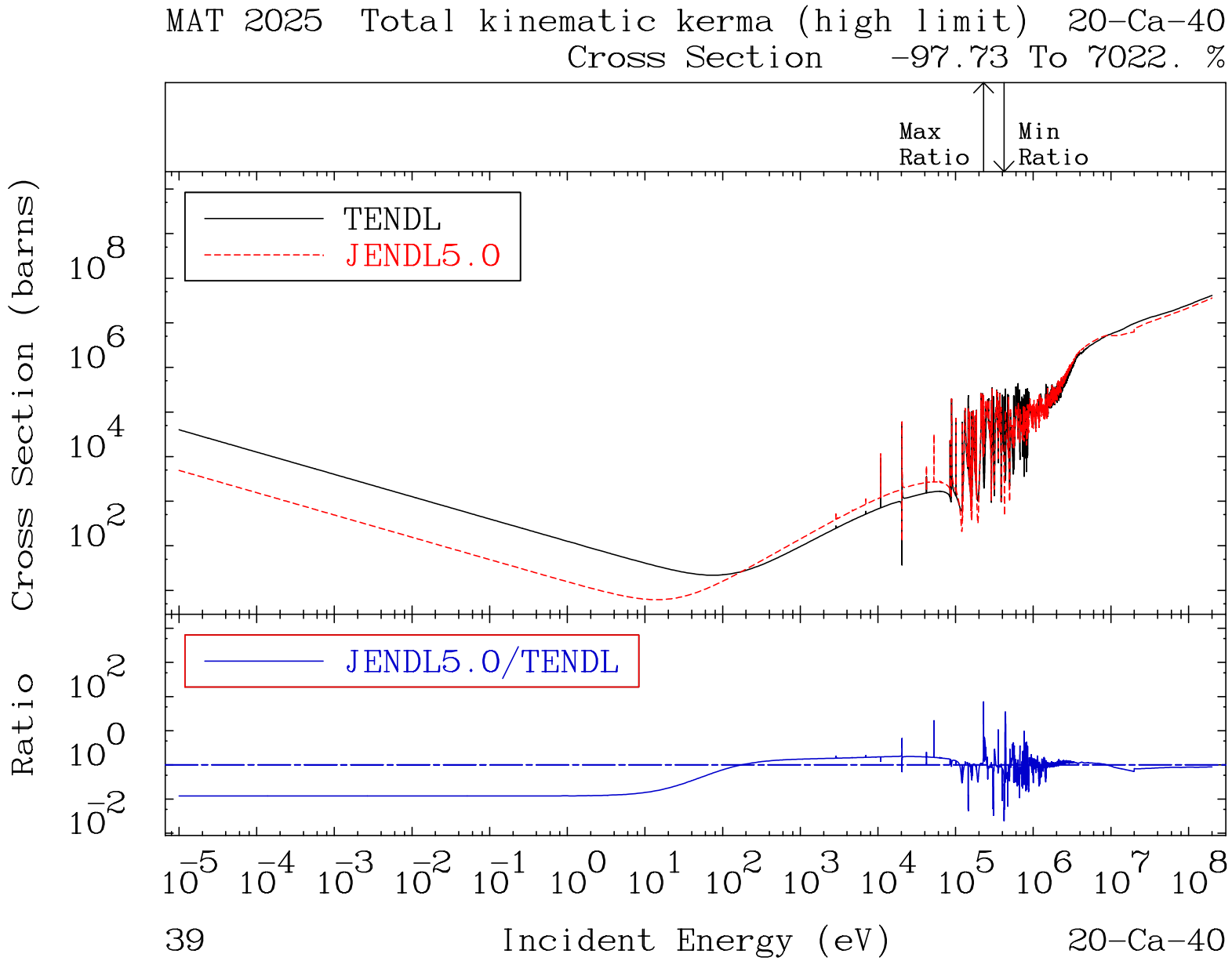

MAT 2025 Kerma non-elastic (all but mt2) 20-Ca-40
Cross Section -99.81 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
34
20-Ca-40

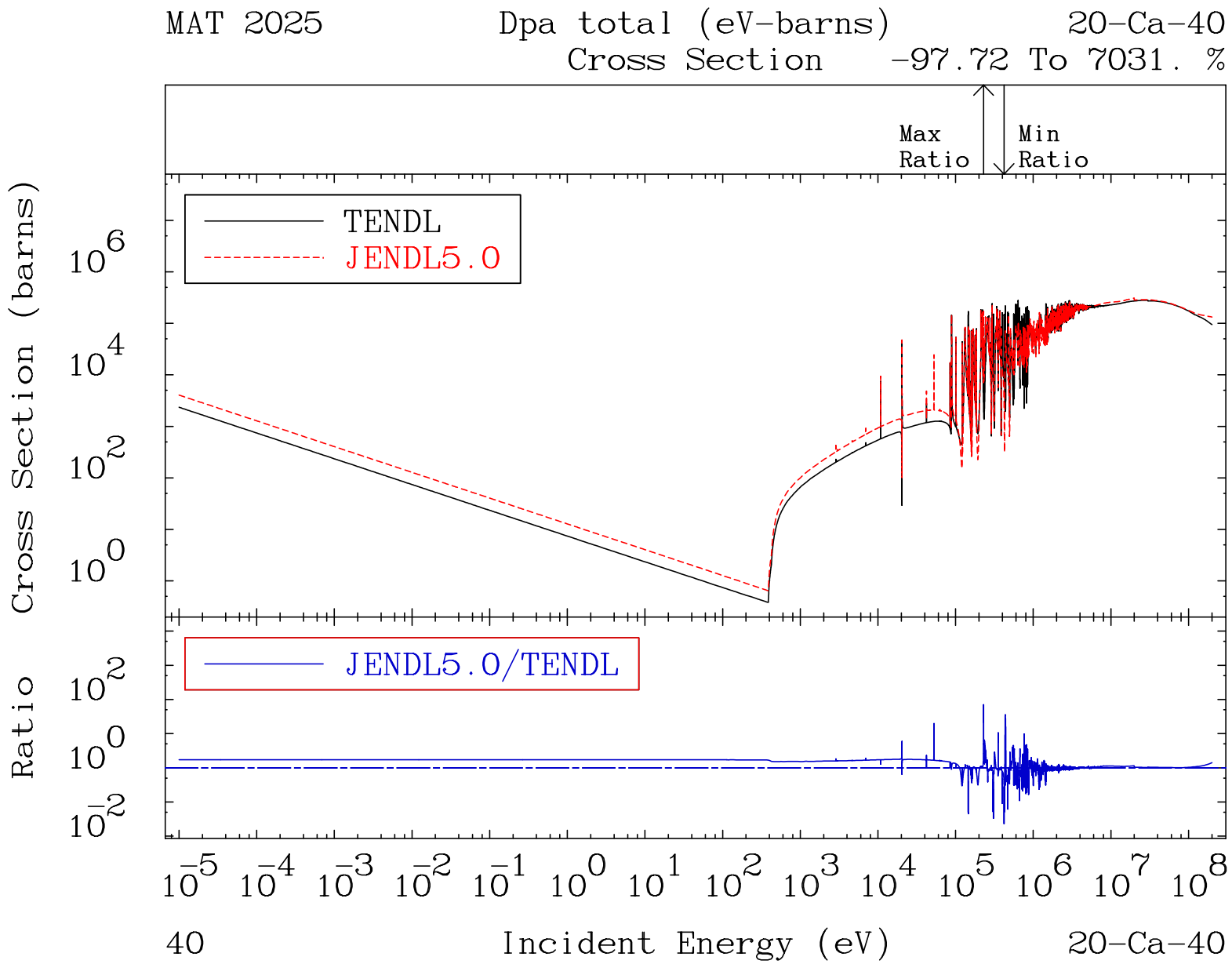

MAT 2025
Kerma inelastic (mt51-91)
20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4372 MeV
JENDL5.0 Threshold 3.4372 MeV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
35
20-Ca-40

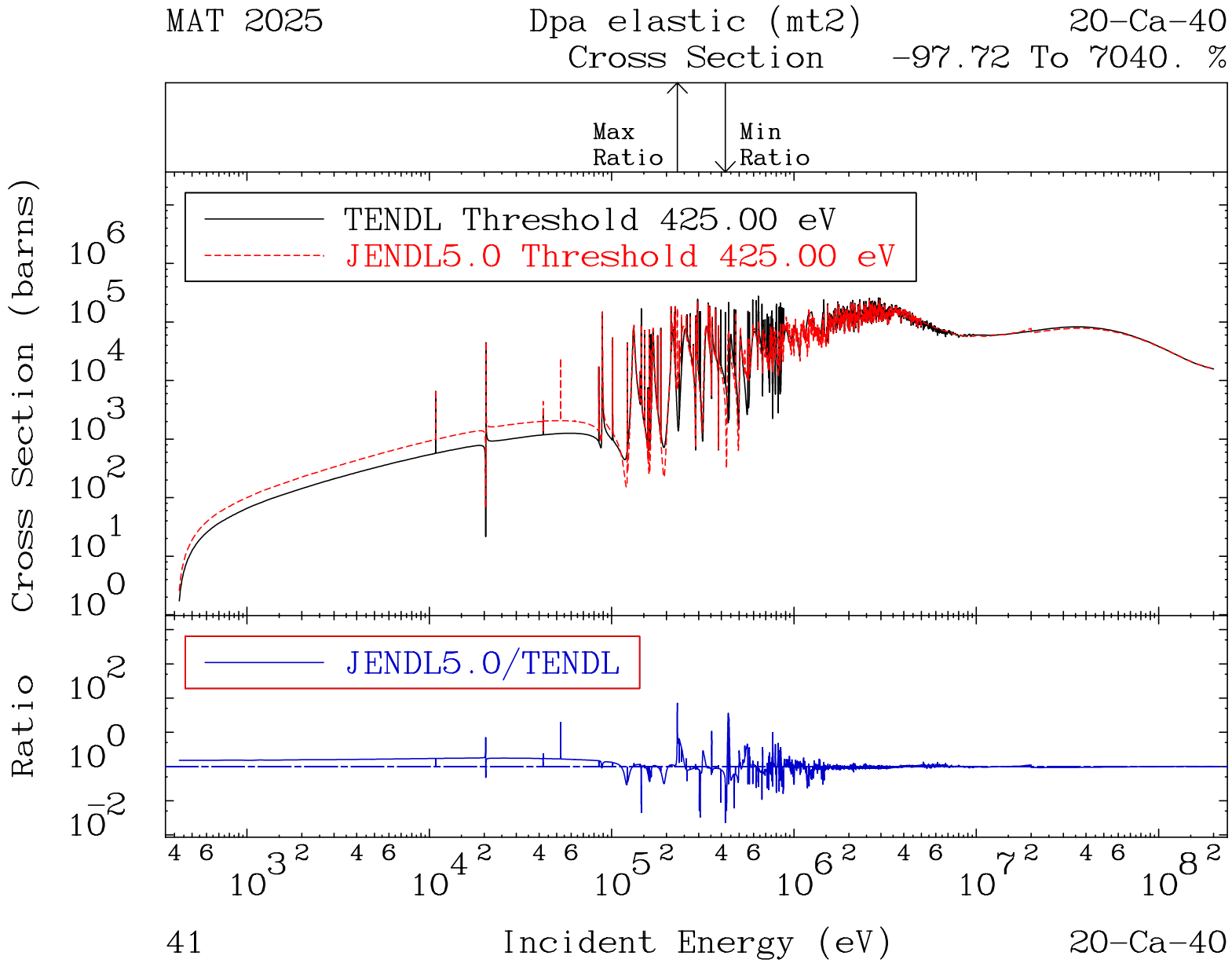

MAT 2025 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-40
Cross Section -100.0 To 9999. %
Max
Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
6
4
2
0
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
36
Incident Energy (eV)
20-Ca-40

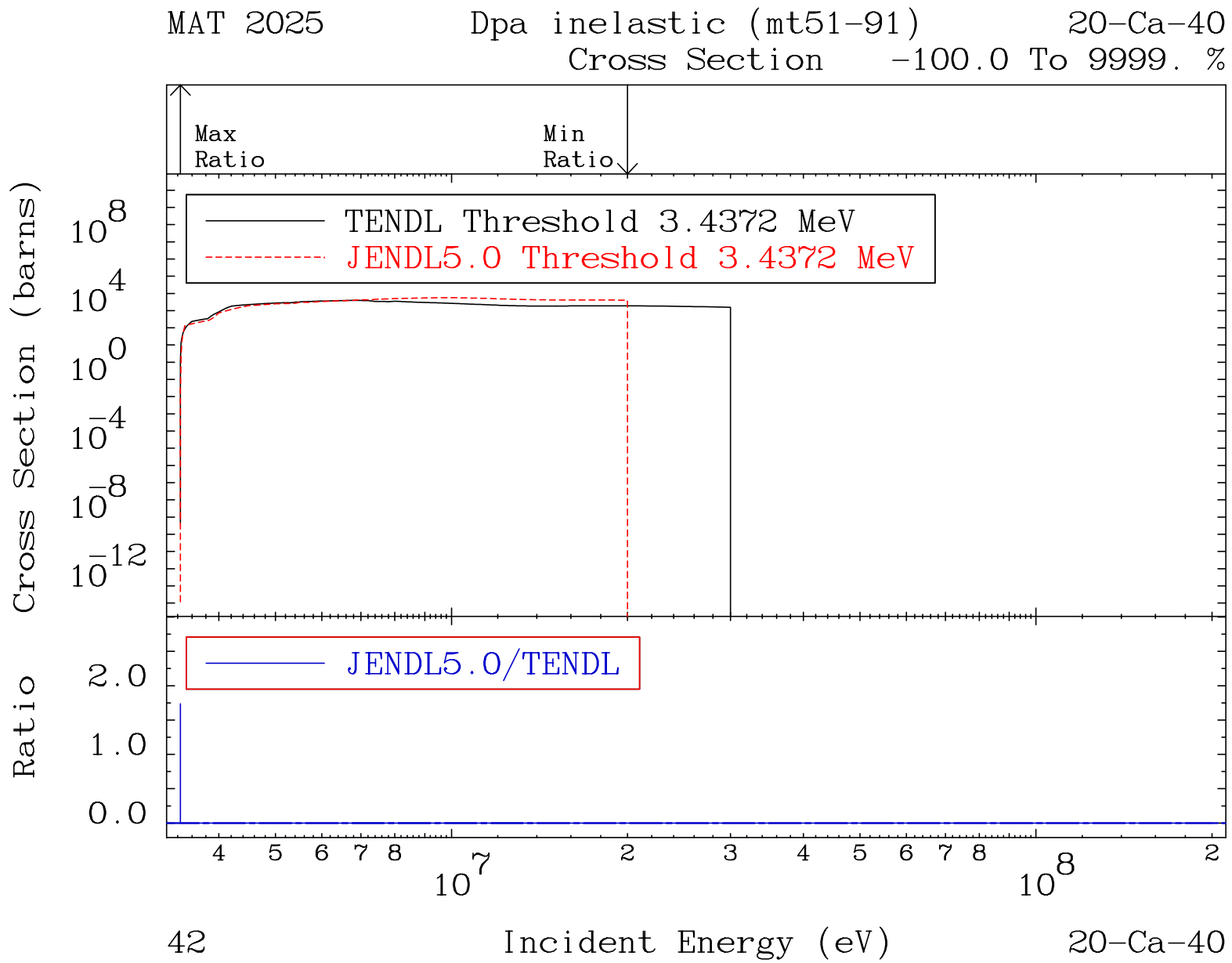

MAT 2025
Kerma capture (mt102)
20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
37
20-Ca-40

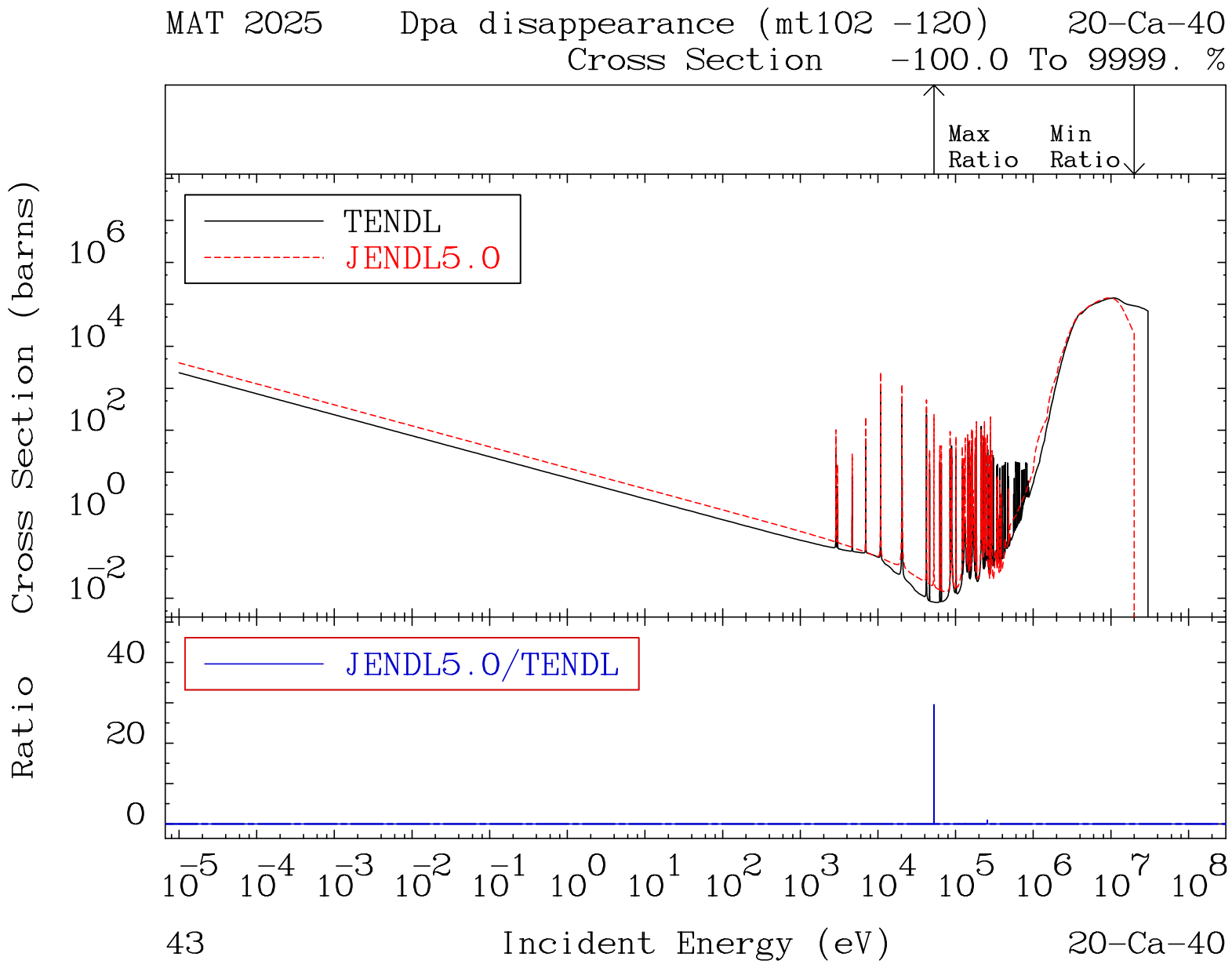

MAT 2025
Total photon (eV-barns)
20-Ca-40
Cross Section -99.98 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
38
20-Ca-40

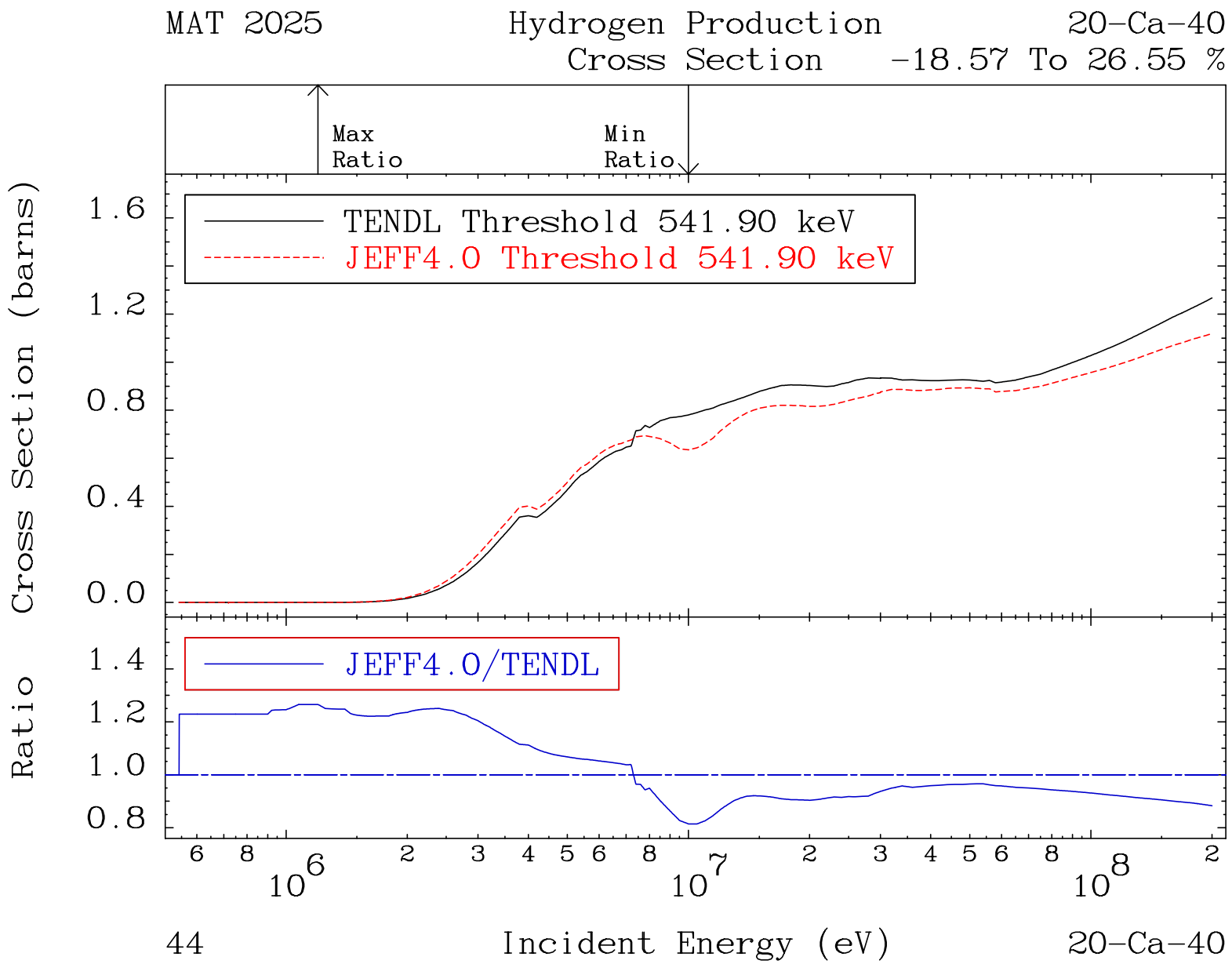

MAT 2025 Total kinematic kerma (high limit) 20-Ca-40
Cross Section -97.73 To 7022. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
Ratio
JENDL5.0/TENDL
Incident Energy (eV)
39
20-Ca-40

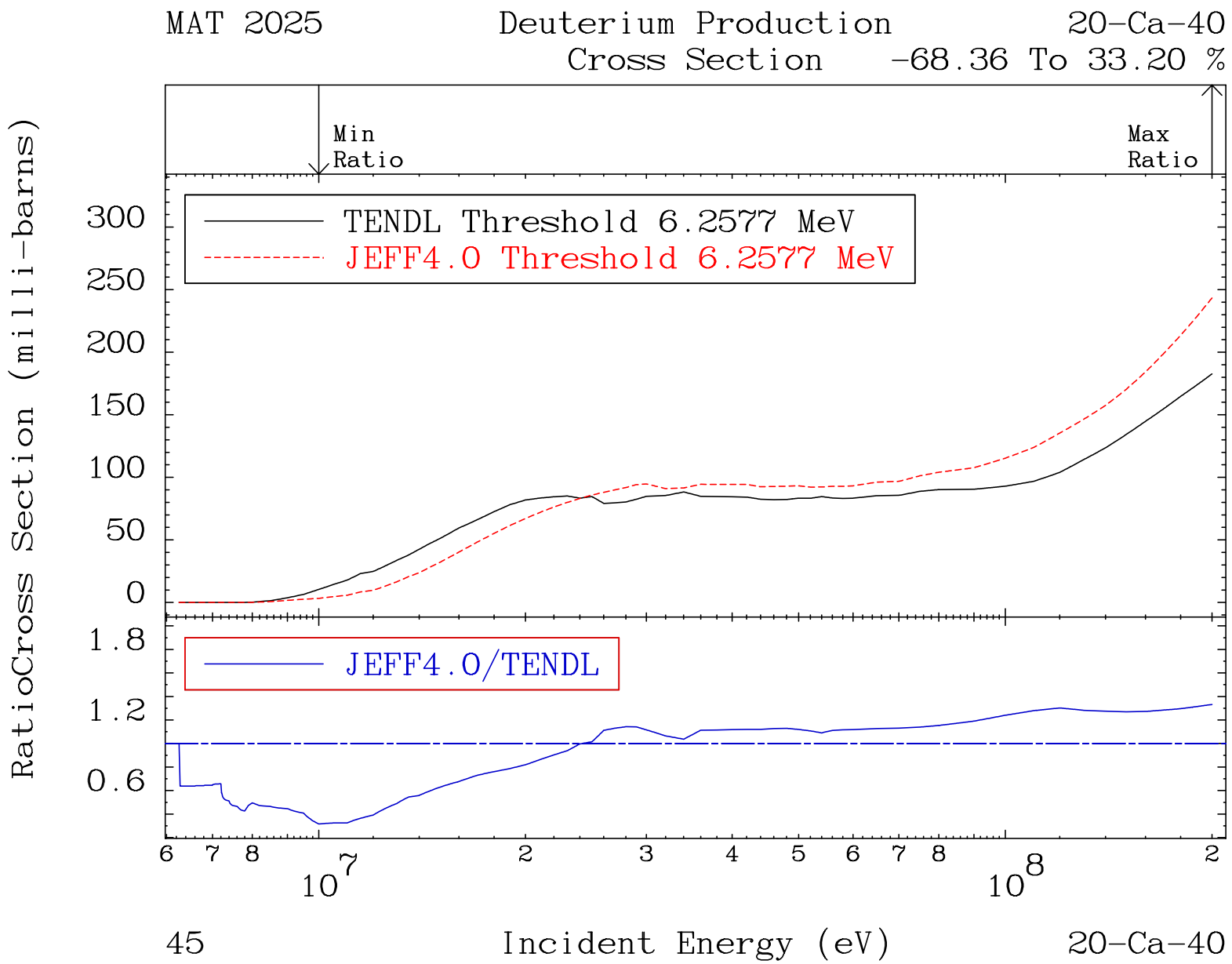

MAT 2025
Dpa total (eV-barns)
20-Ca-40
Cross Section -97.72 To 7031. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
40
20-Ca-40

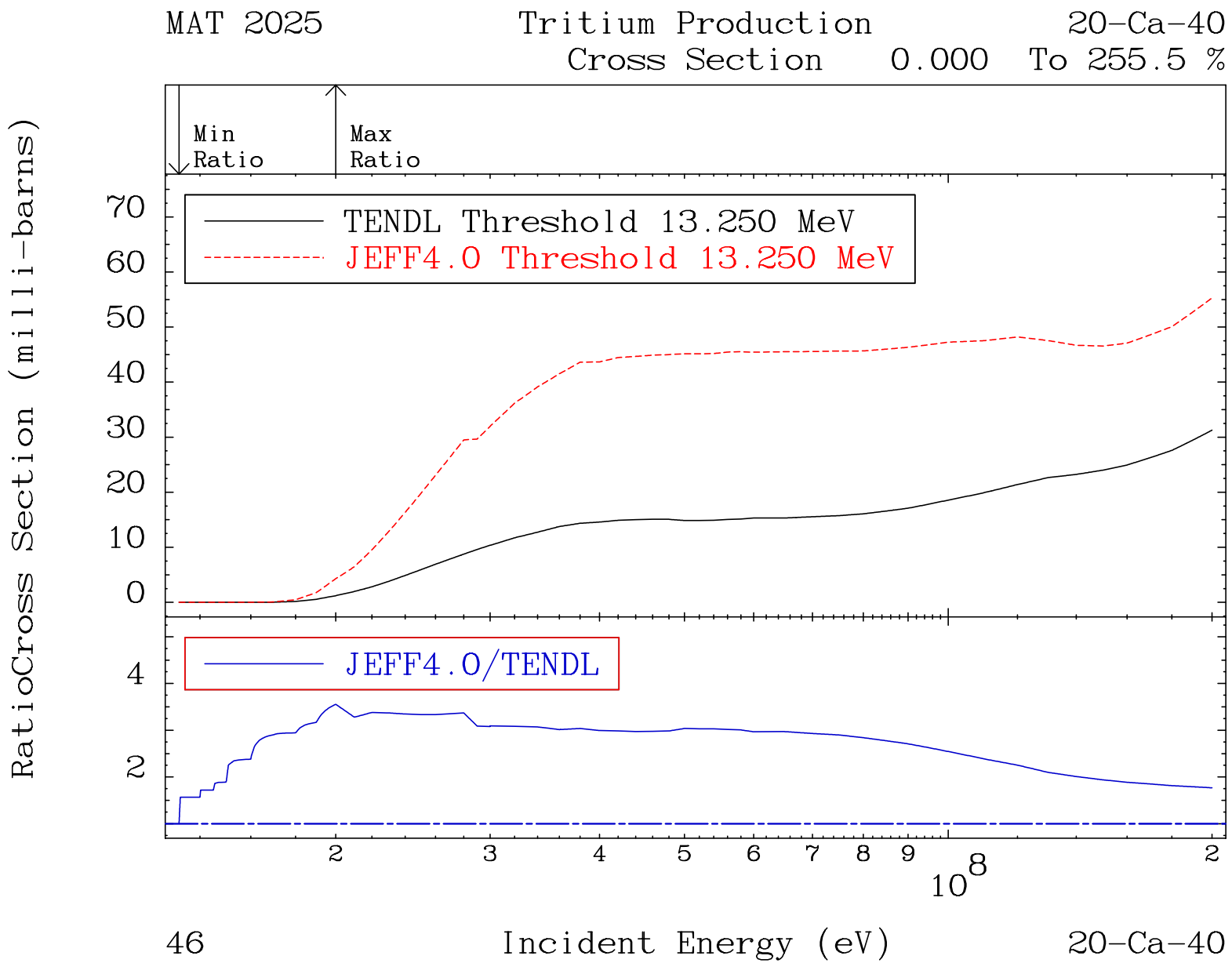

MAT 2025
Dpa elastic (mt2)
Cross Section
20-Ca-40
-97.72 To 7040. %
Max Ratio
Min Ratio
TENDL Threshold 425.00 eV
JENDL5.0 Threshold 425.00 eV
JENDL5.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
41
20-Ca-40

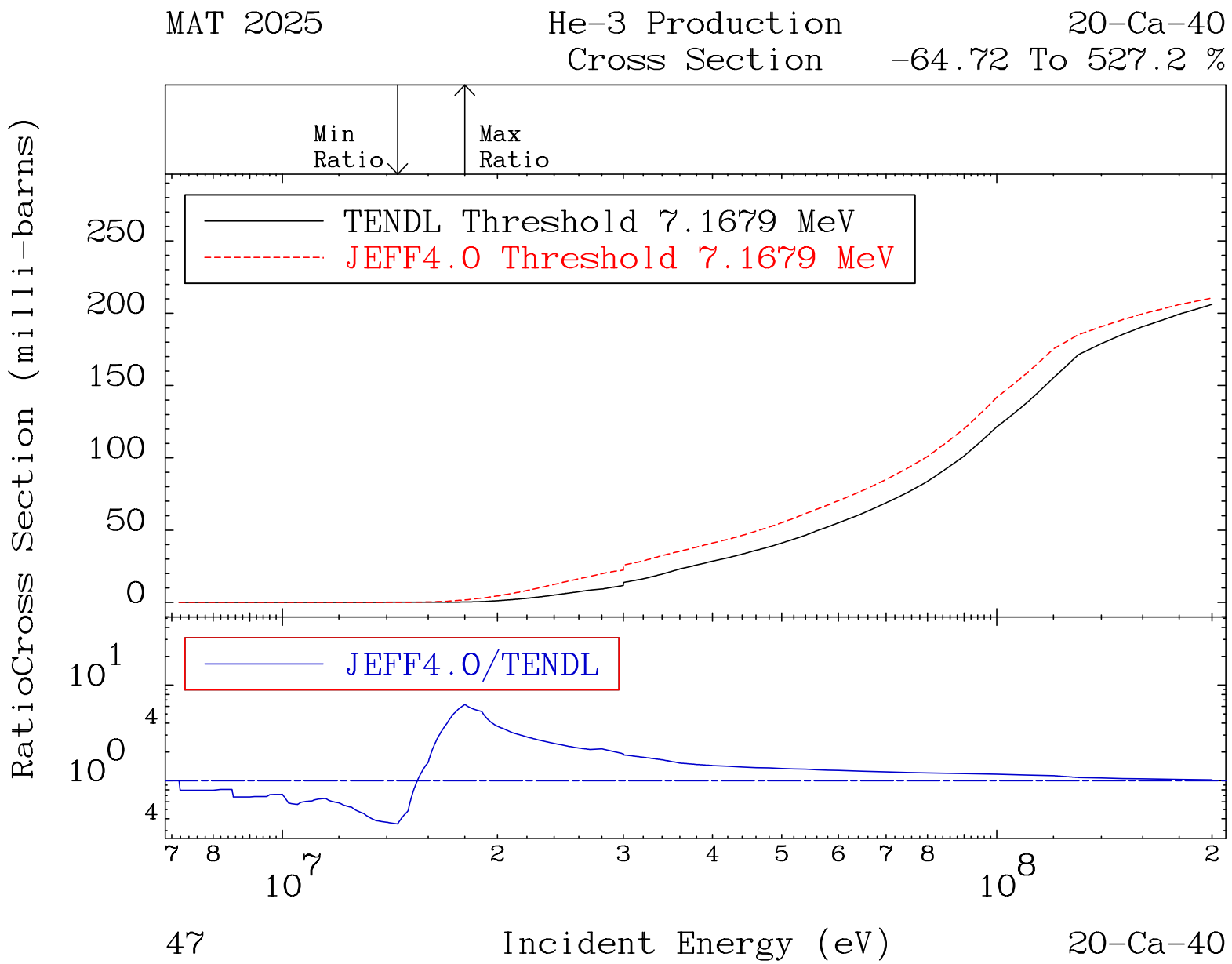

MAT 2025
Dpa inelastic (mt51-91)
20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL Threshold 3.4372 MeV
JENDL5.0 Threshold 3.4372 MeV
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
42
20-Ca-40

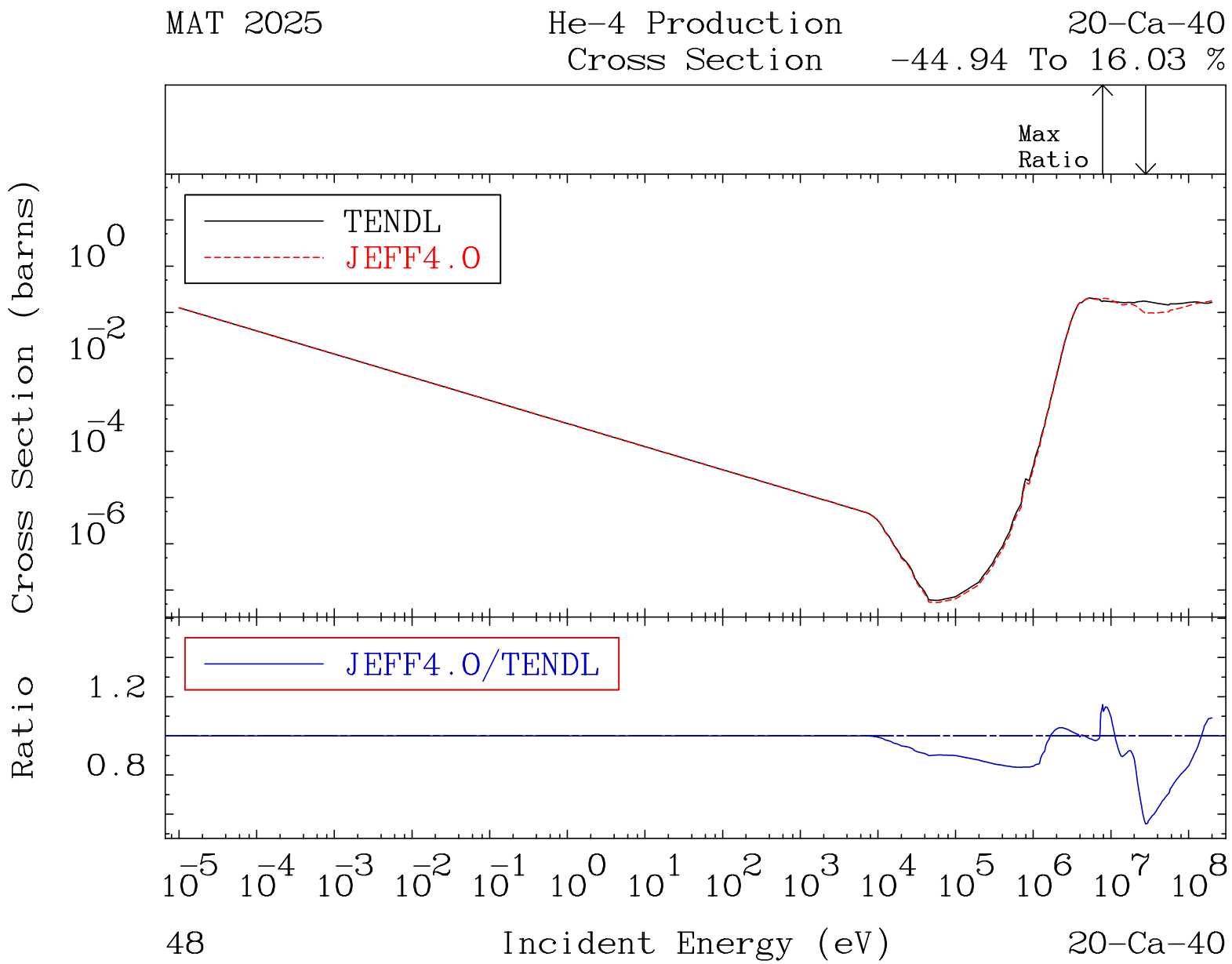

MAT 2025 Dpa disappearance (mt102 -120) 20-Ca-40
Cross Section -100.0 To 9999. %
Max Ratio
Min Ratio
TENDL
JENDL5.0
Cross Section (barns)
JENDL5.0/TENDL
Ratio
Incident Energy (eV)
43
20-Ca-40

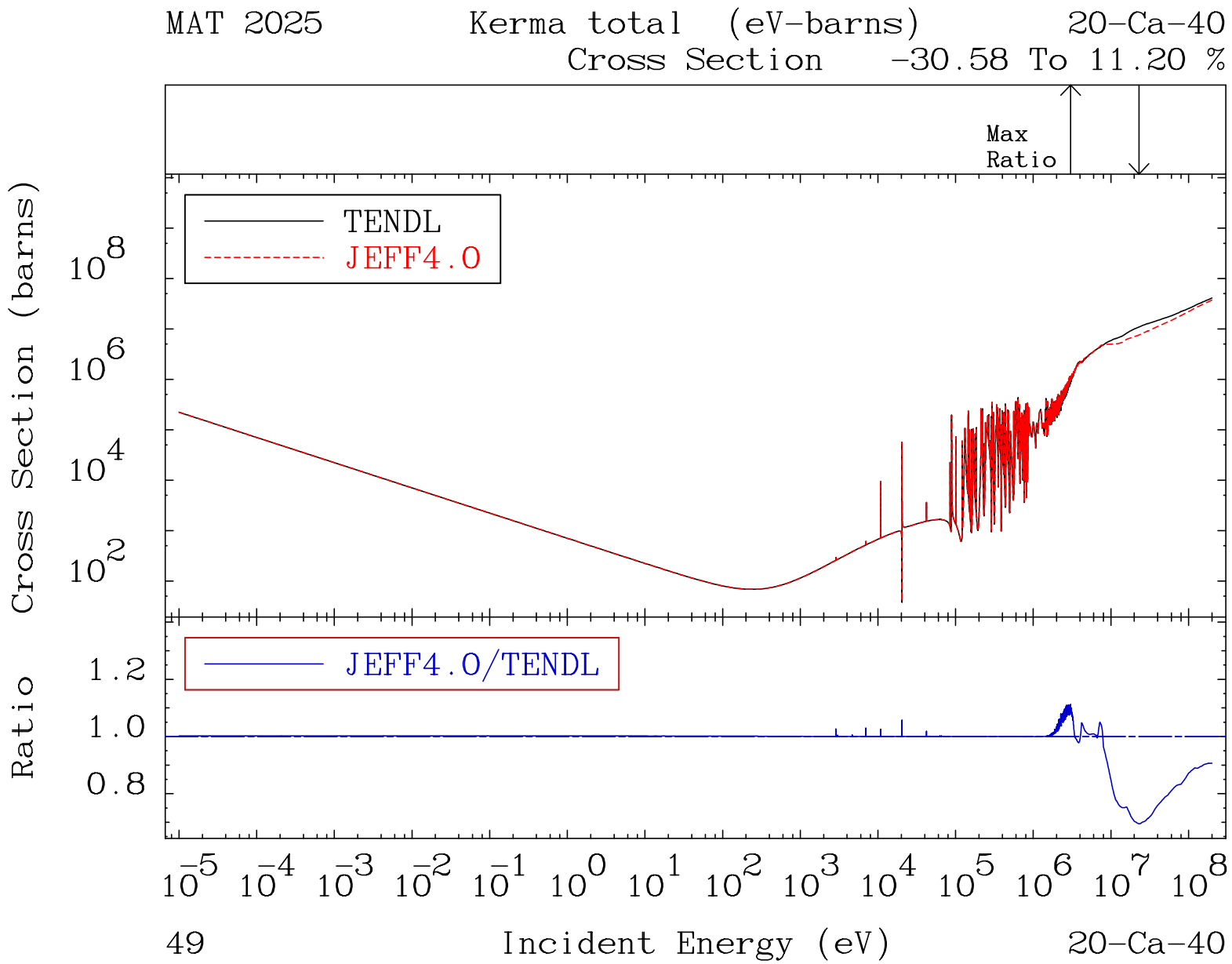

MAT 2025
Hydrogen Production
20-Ca-40
Cross Section
-18.57 To 26.55 %
Max Ratio
Min Ratio
TENDL Threshold 541.90 keV
JEFF4.0 Threshold 541.90 keV
Cross Section (barns)
1.6
1.2
0.8
0.4
0.0
JEFF4.0/TENDL
Ratio
1.4
1.2
1.0
0.8
6 8 10^6 2 3 4 5 6 8 10^7 2 3 4 5 6 8 10^8 2
44
Incident Energy (eV)
20-Ca-40

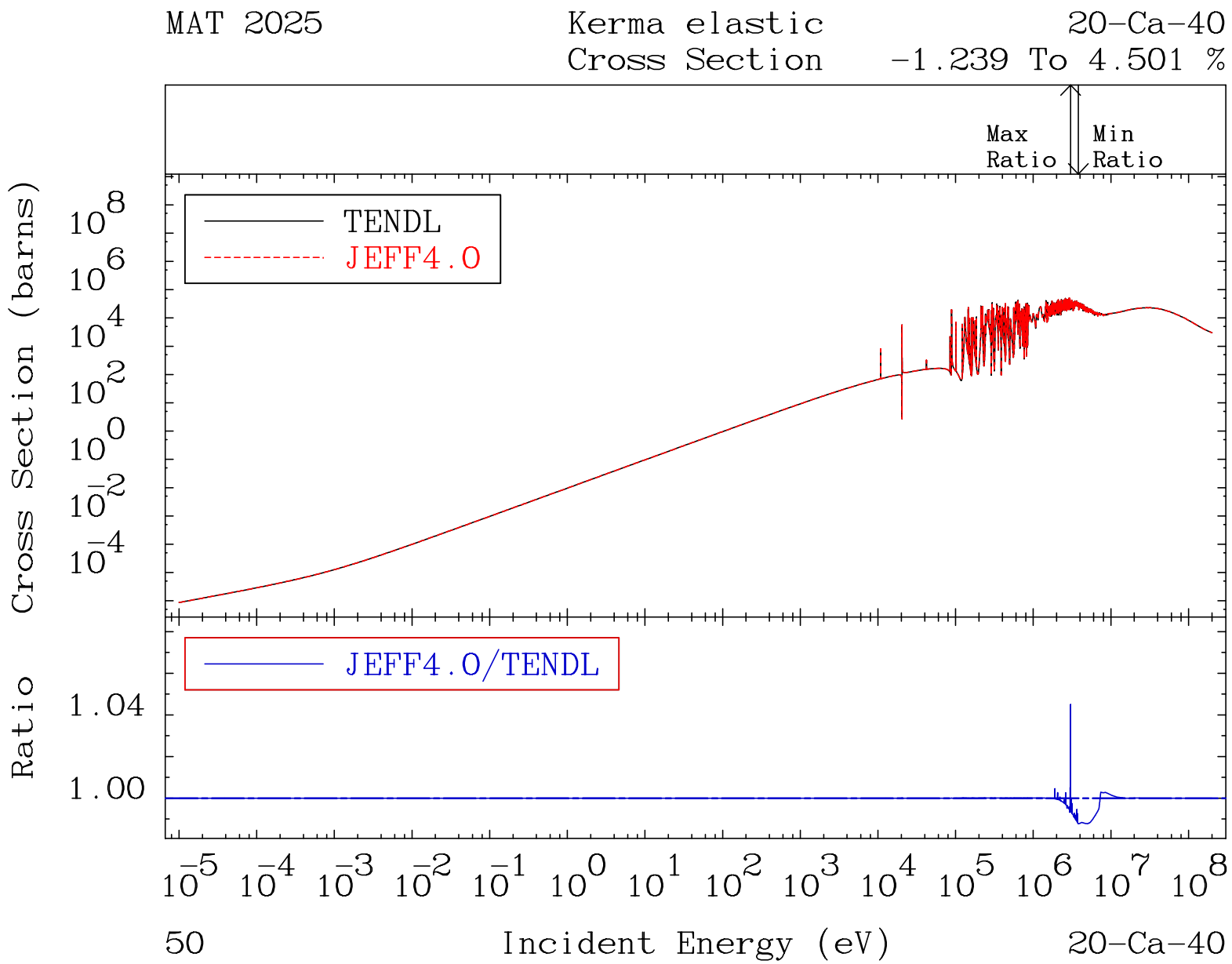

MAT 2025
Deuterium Production
20-Ca-40
Cross Section
-68.36 To 33.20 %
Min Ratio
Max Ratio
TENDL Threshold 6.2577 MeV
JEFF4.0 Threshold 6.2577 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
300
250
200
150
100
50
0
1.8
1.2
0.6
6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
45
Incident Energy (eV)
20-Ca-40

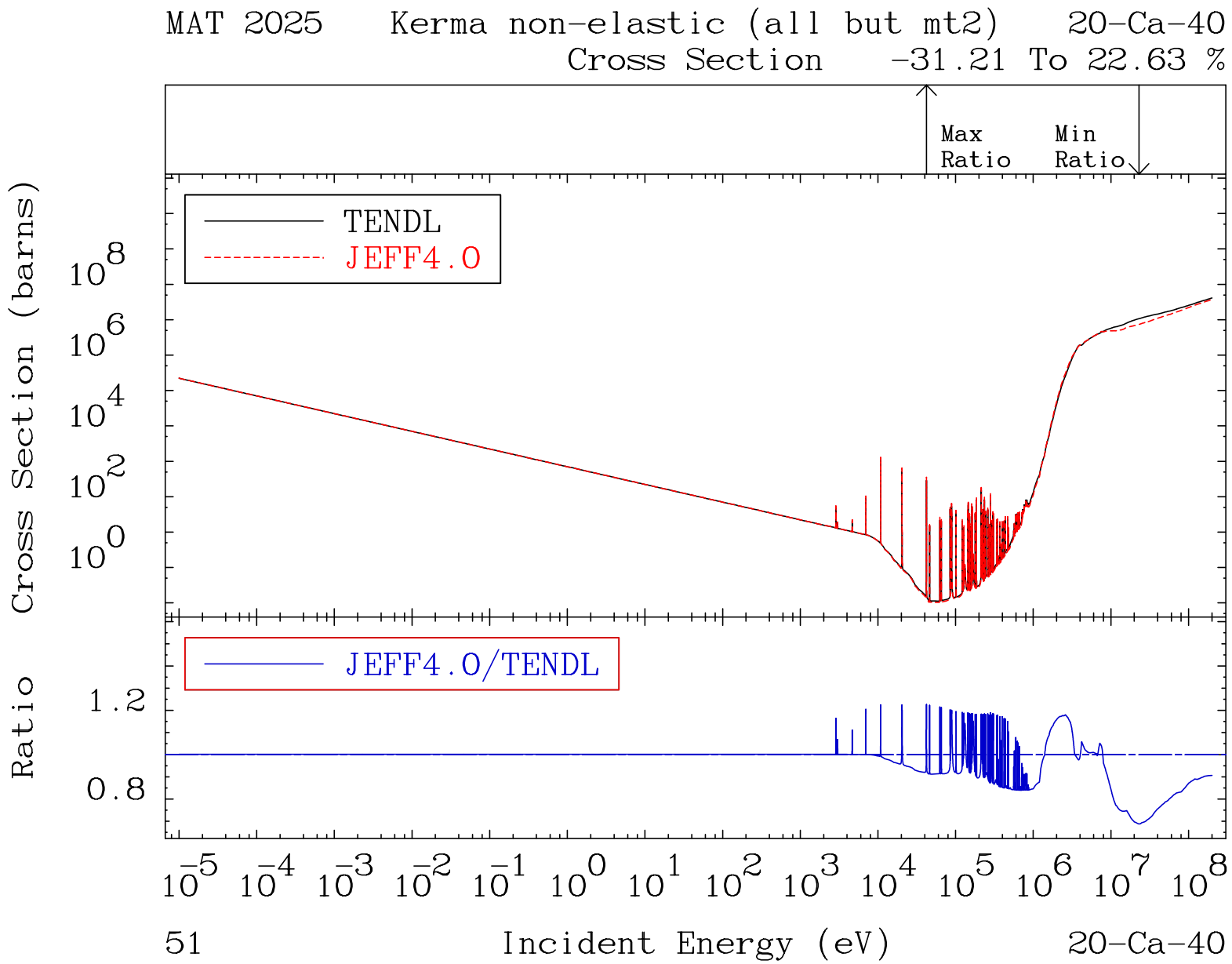

MAT 2025
Tritium Production
20-Ca-40
Cross Section 0.000 To 255.5 %
Min Ratio
Max Ratio
TENDL Threshold 13.250 MeV
JEFF4.0 Threshold 13.250 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
70
60
50
40
30
20
10
0
4
2
2
3
4
5
6
7
8
9
10^8
2
46
Incident Energy (eV)
20-Ca-40

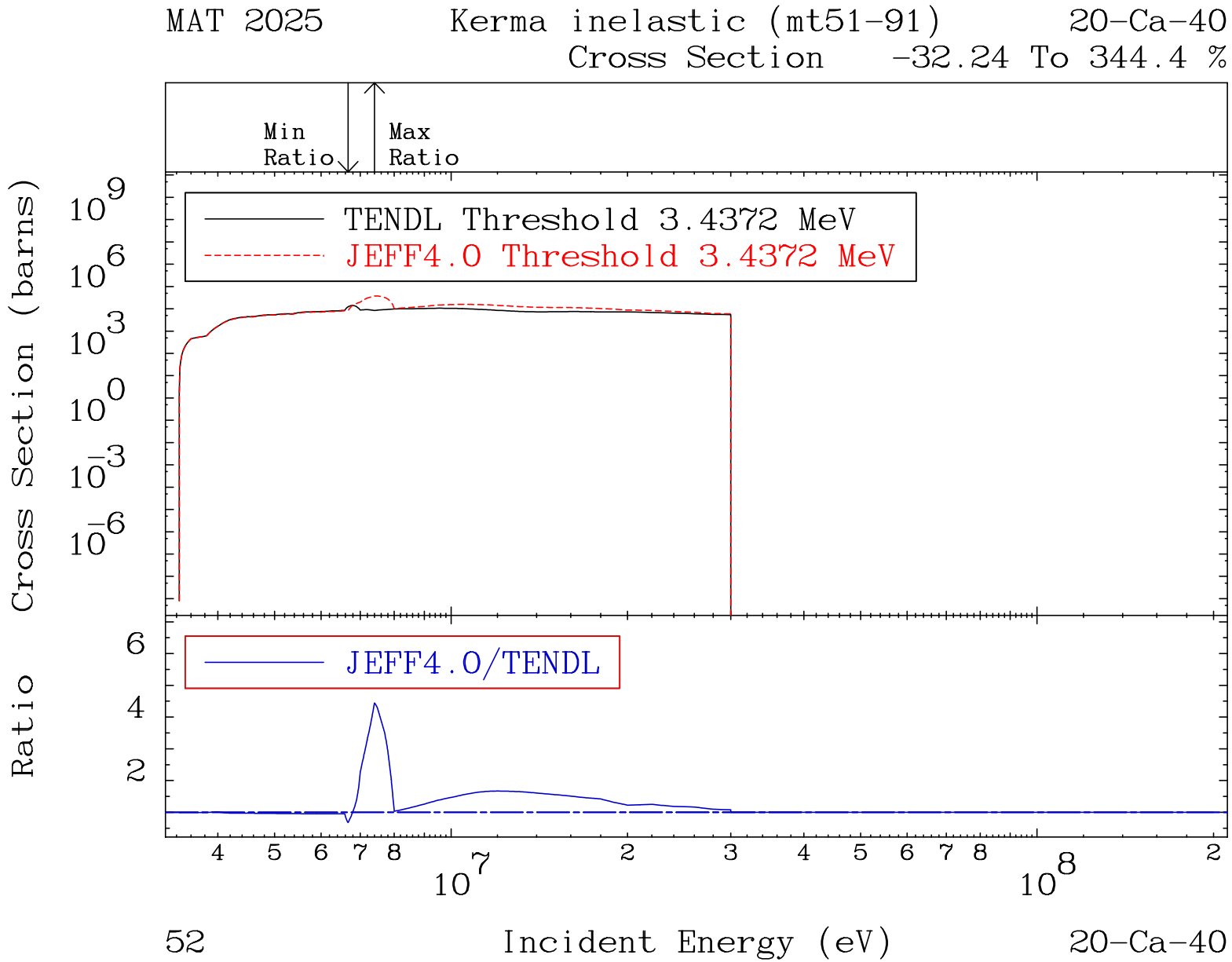

MAT 2025
He-3 Production
Cross Section
20-Ca-40
-64.72 To 527.2 %
Min Ratio
Max Ratio
TENDL Threshold 7.1679 MeV
JEFF4.0 Threshold 7.1679 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
250
200
150
100
50
0
10^1
10^0
4
4
7 8
10^7
2 3 4 5 6 7 8
10^8
2
47
Incident Energy (eV)
20-Ca-40

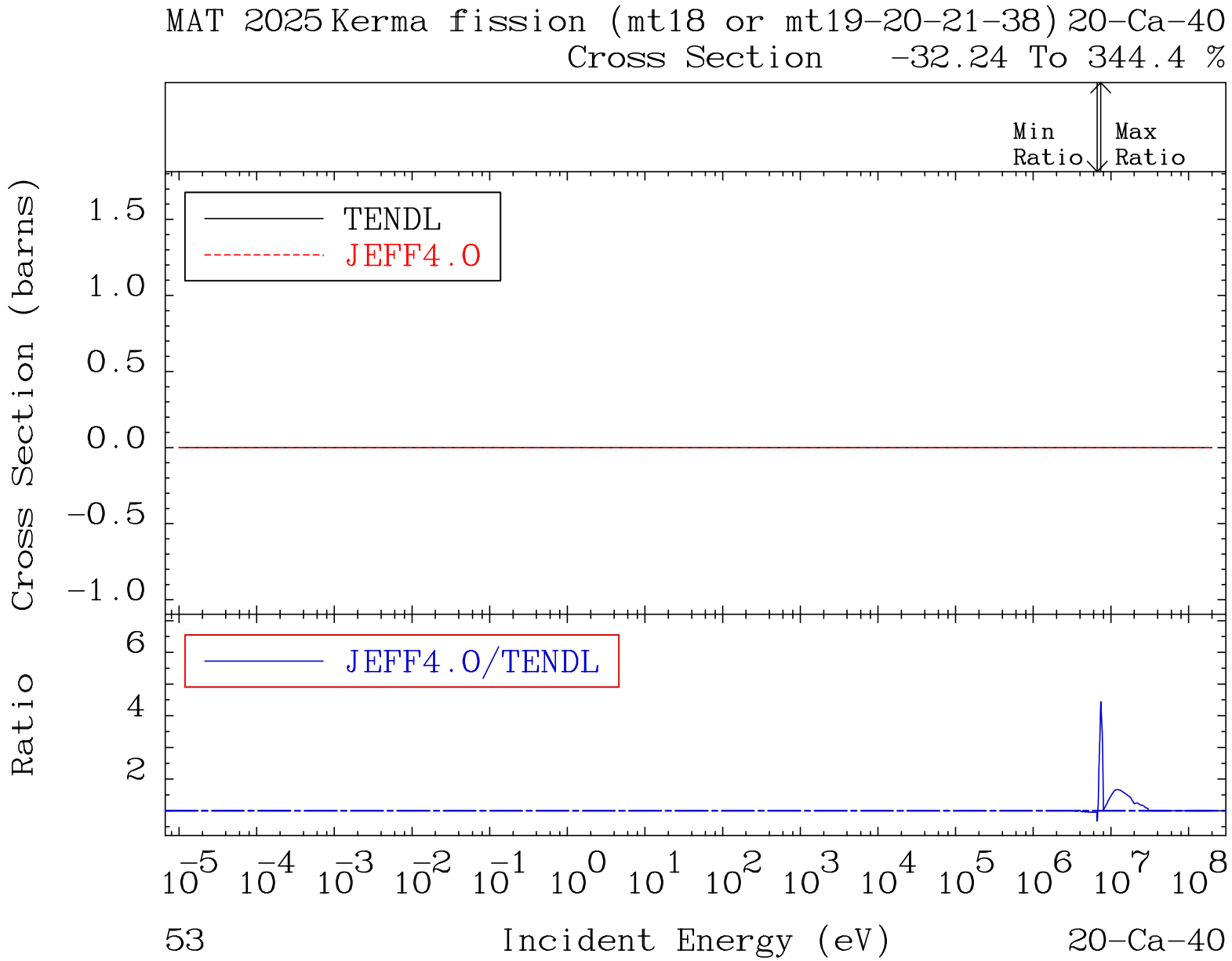

MAT 2025
He-4 Production
Cross Section
20-Ca-40
-44.94 To 16.03 %
Max
Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^0
10^-2
10^-4
10^-6
JEFF4.0/TENDL
Ratio
1.2
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
48
Incident Energy (eV)
20-Ca-40

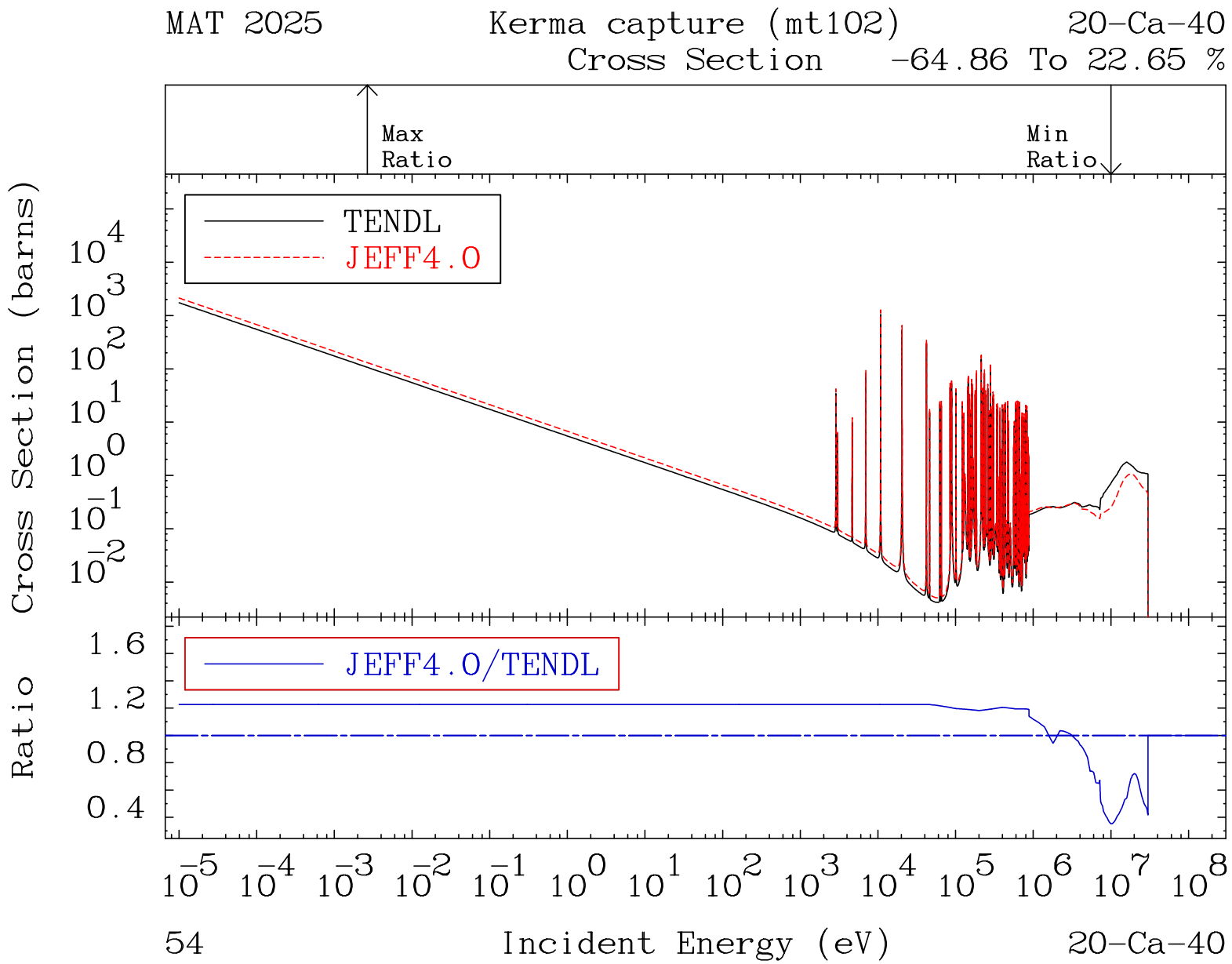

MAT 2025
Kerma total (eV-barns)
20-Ca-40
Cross Section -30.58 To 11.20 %
Max
Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^8
10^6
10^4
10^2
JEFF4.0/TENDL
Ratio
1.2
1.0
0.8
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
49
Incident Energy (eV)
20-Ca-40

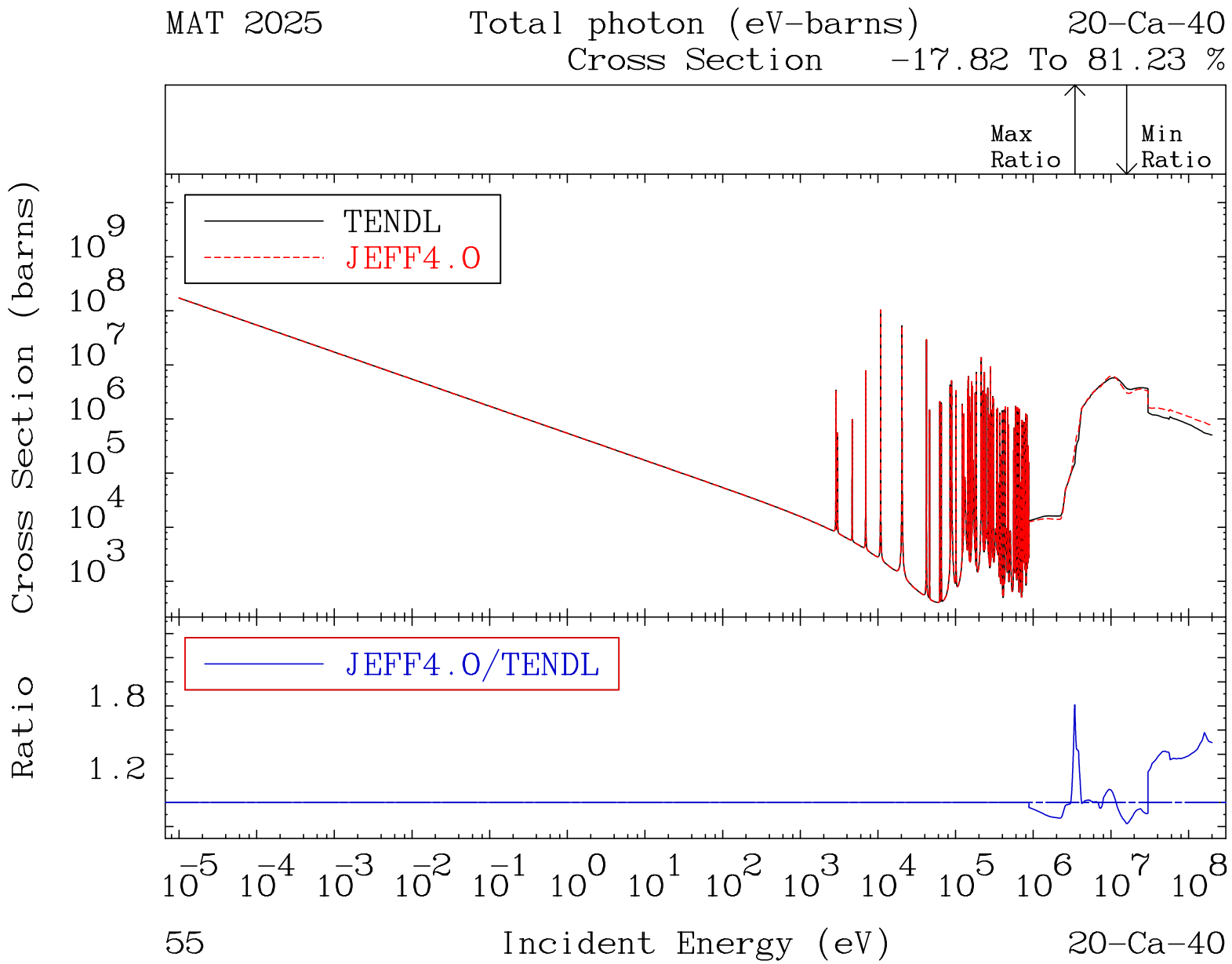

MAT 2025
Kerma elastic
Cross Section
20-Ca-40
-1.239 To 4.501 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.04
1.00
Incident Energy (eV)
50
20-Ca-40

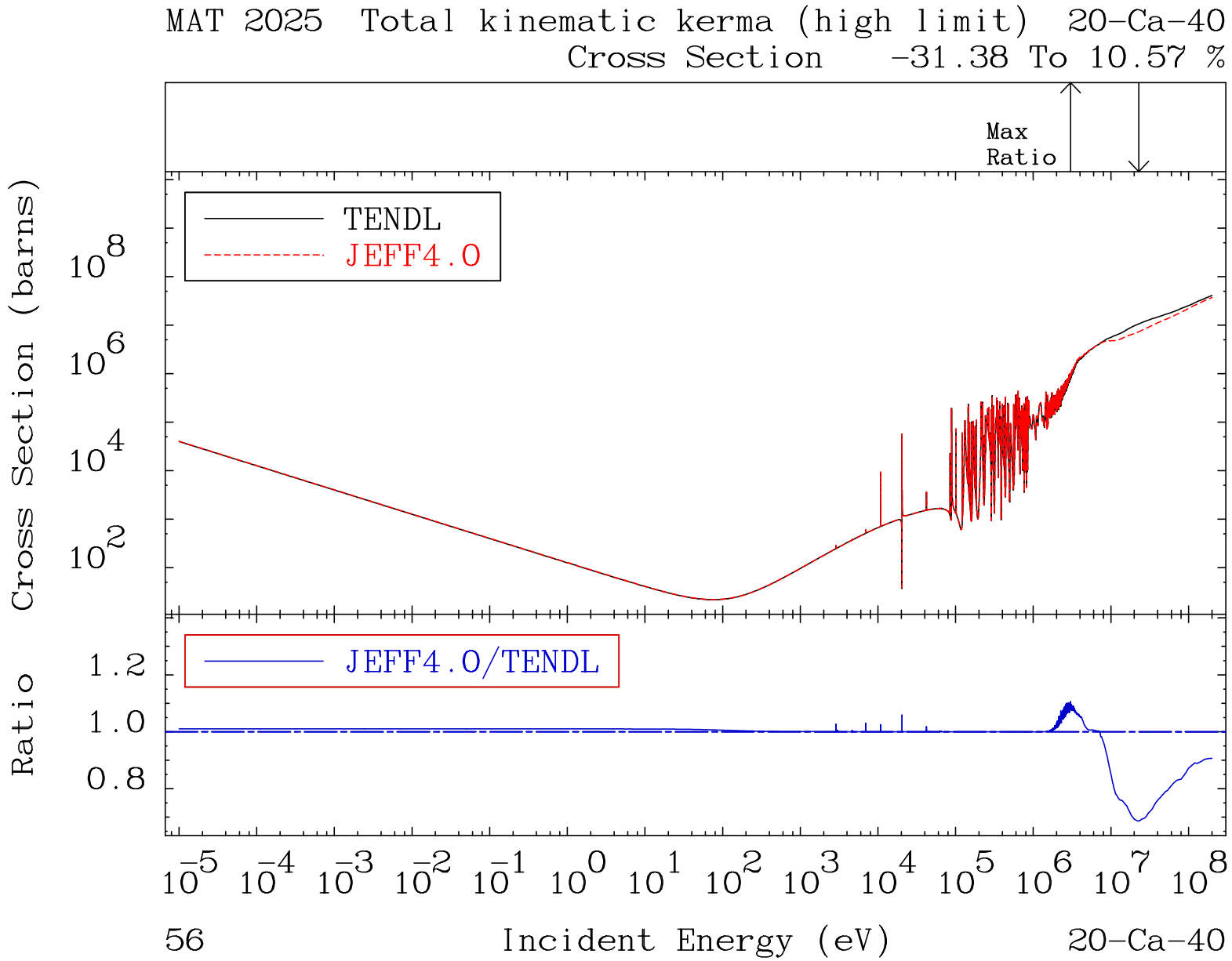

MAT 2025 Kerma non-elastic (all but mt2) 20-Ca-40
Cross Section -31.21 To 22.63 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
51
20-Ca-40

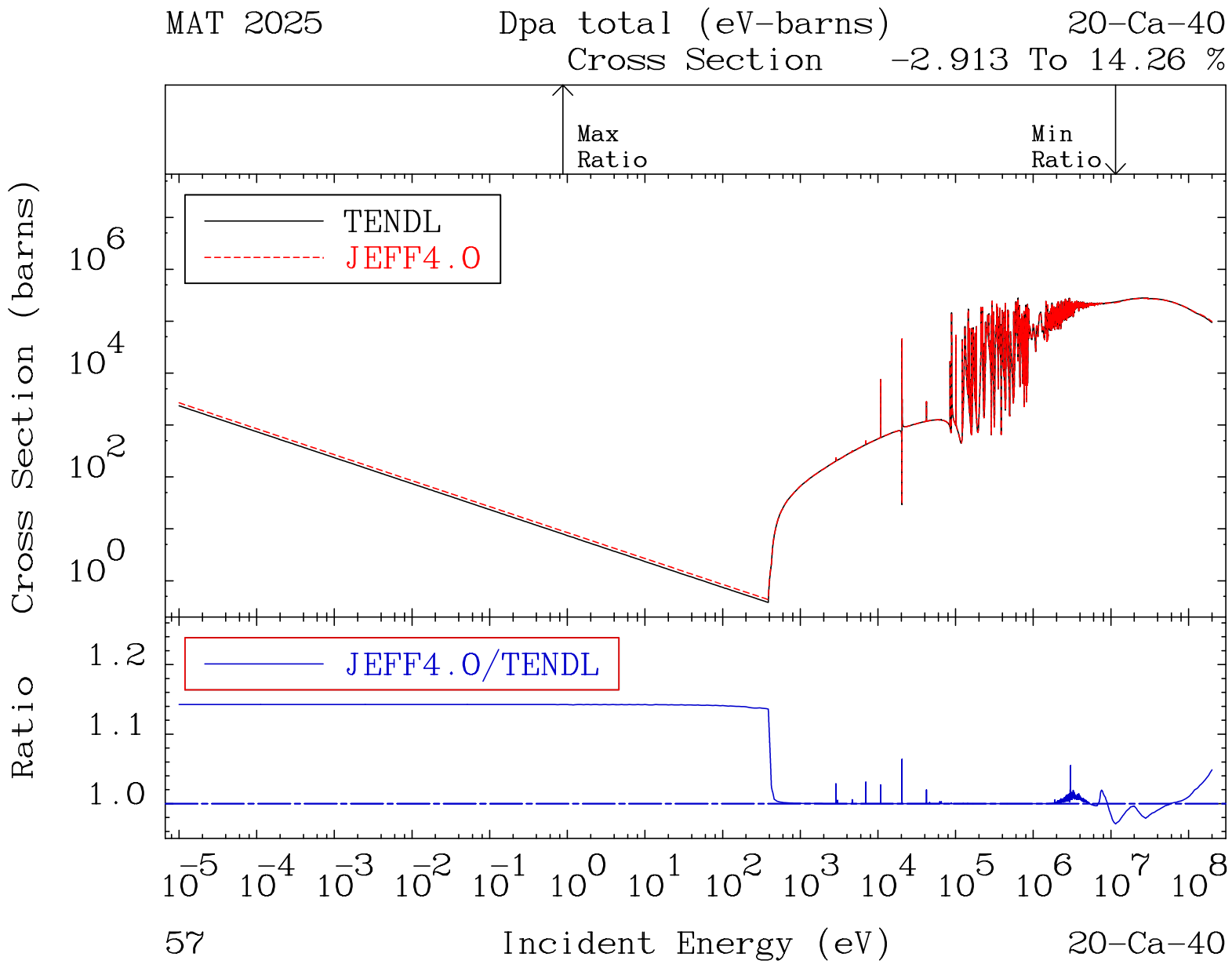

MAT 2025
Kerma inelastic (mt51-91)
20-Ca-40
Cross Section -32.24 To 344.4 %
Min Ratio
Max Ratio
TENDL Threshold 3.4372 MeV
JEFF4.0 Threshold 3.4372 MeV
JEFF4.0/TENDL
Cross Section (barns)
Ratio
Incident Energy (eV)
52
20-Ca-40

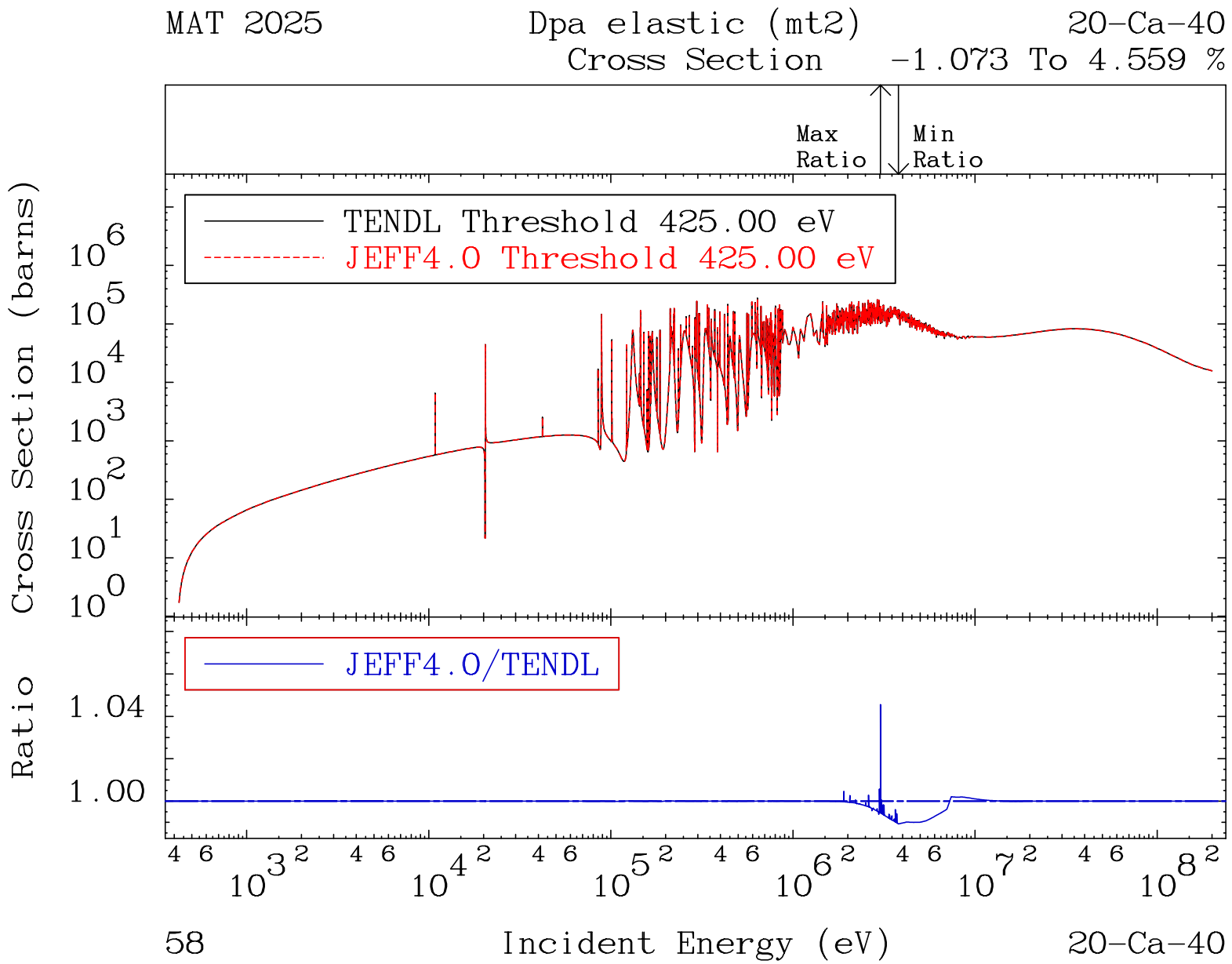

MAT 2025 Kerma fission (mt18 or mt19-20-21-38) 20-Ca-40
Cross Section -32.24 To 344.4 %
Min Ratio
Max Ratio
TENDL
JEFF4.0
JEFF4.0/TENDL
Cross Section (barns)
Ratio
1.5
1.0
0.5
0.0
-0.5
-1.0
6
4
2
10^{-5} 10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^{0} 10^{1} 10^{2} 10^{3} 10^{4} 10^{5} 10^{6} 10^{7} 10^{8}
53
Incident Energy (eV)
20-Ca-40

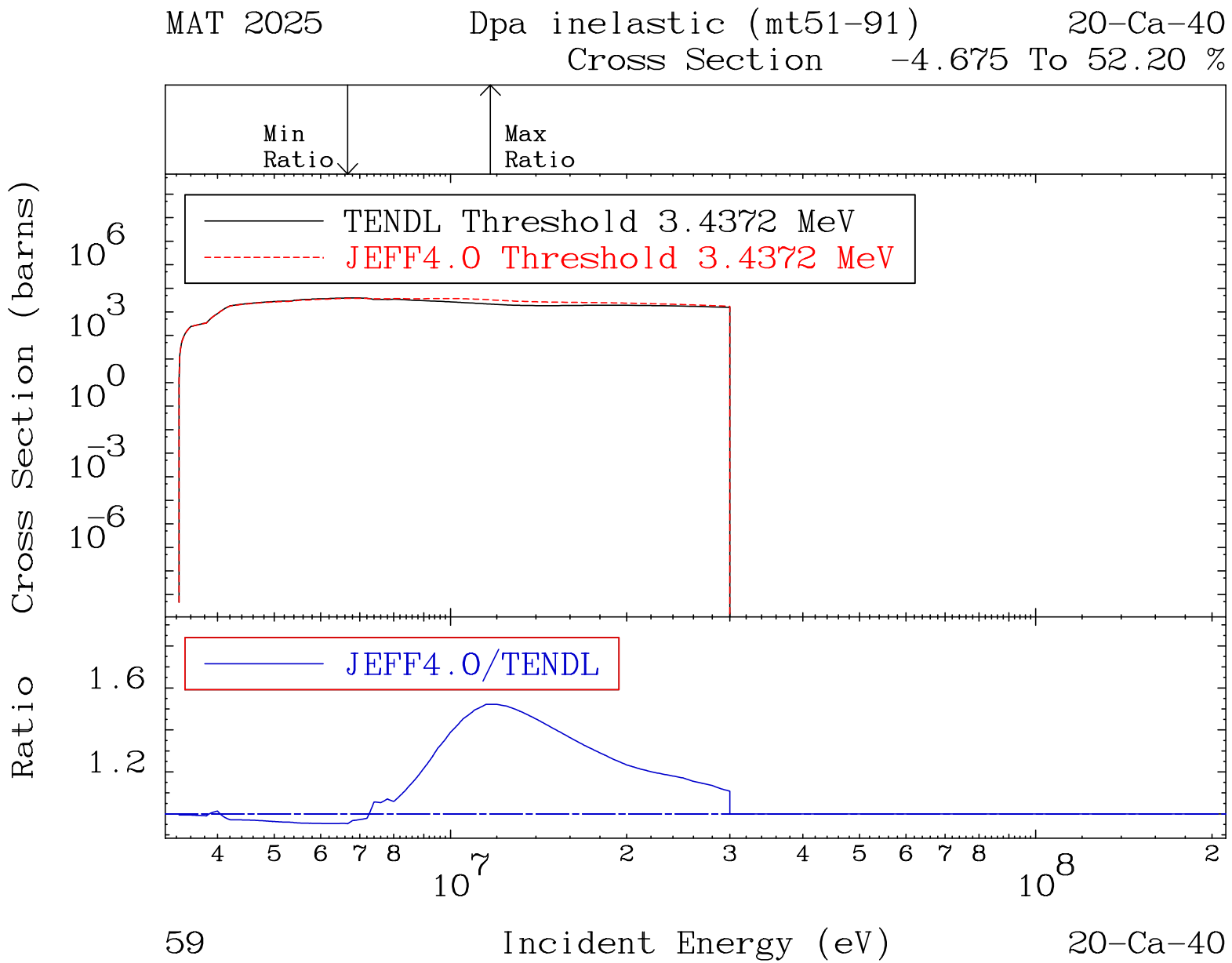

MAT 2025
Kerma capture (mt102)
20-Ca-40
Cross Section -64.86 To 22.65 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
54
20-Ca-40

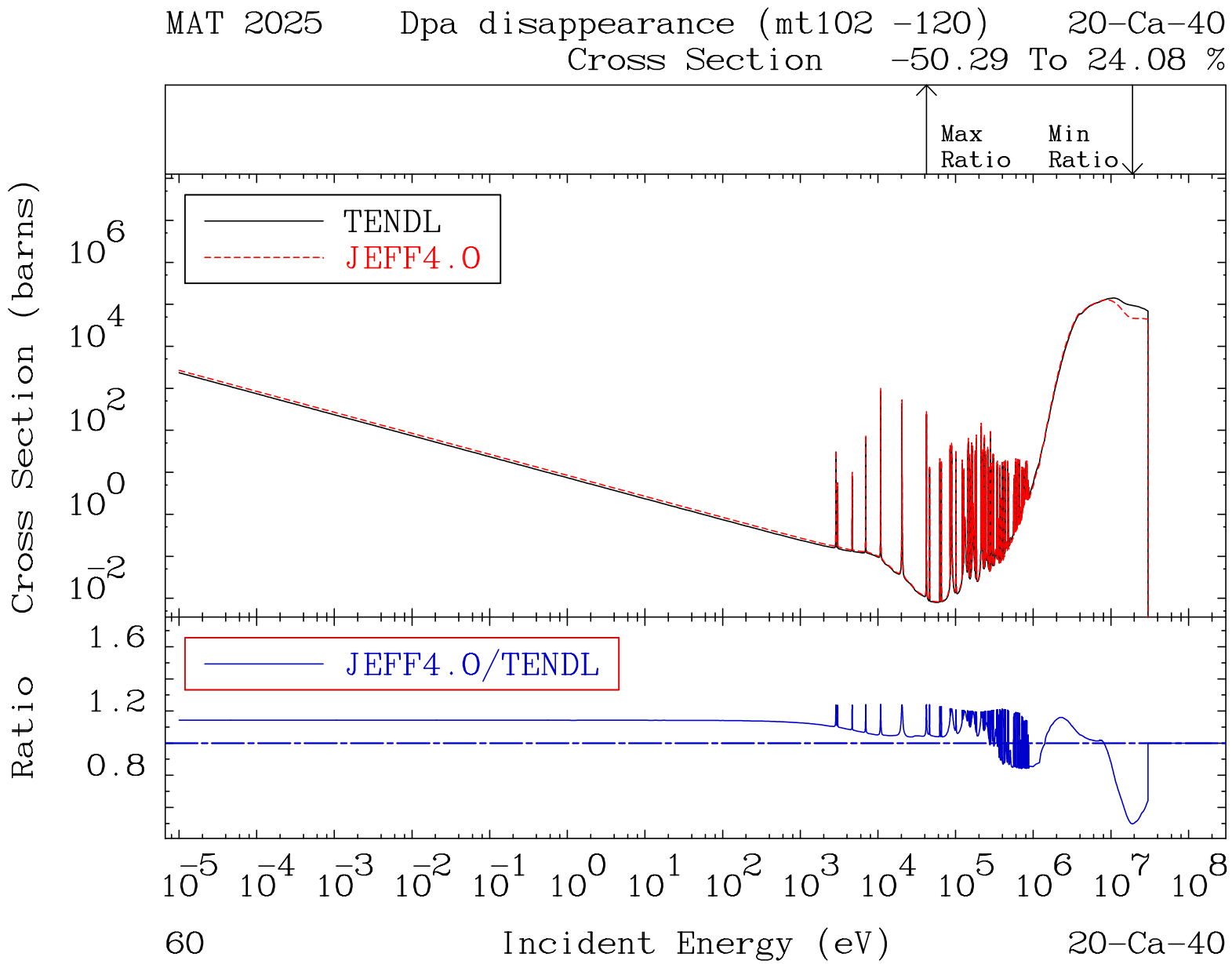

MAT 2025
Total photon (eV-barns)
20-Ca-40
Cross Section -17.82 To 81.23 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
55
20-Ca-40

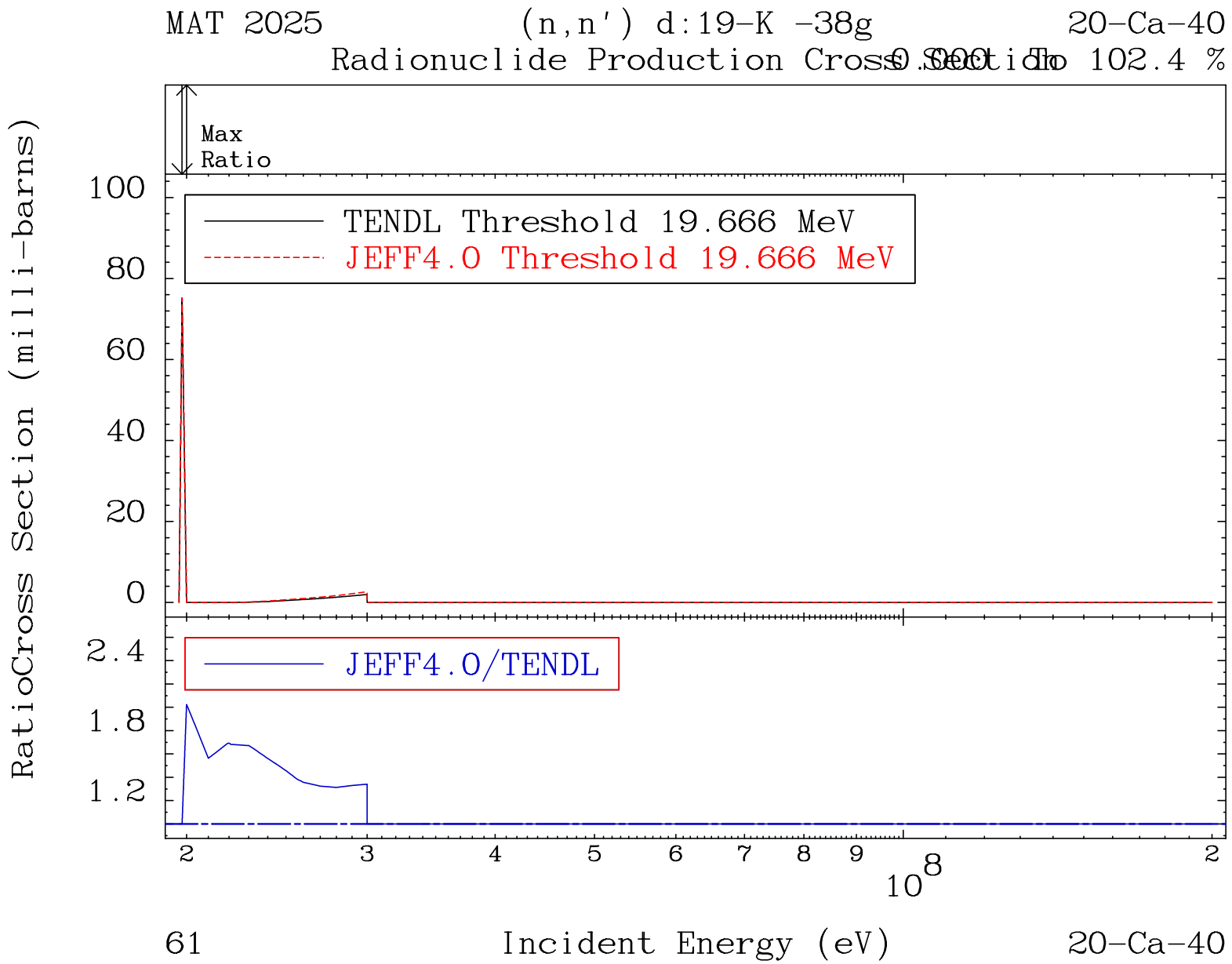

MAT 2025 Total kinematic kerma (high limit) 20-Ca-40
Cross Section -31.38 To 10.57 %
Max
Ratio
TENDL
JEFF4.0
Cross Section (barns)
10^8
10^6
10^4
10^2
JEFF4.0/TENDL
Ratio
1.2
1.0
0.8
10^-5 10^-4 10^-3 10^-2 10^-1 10^0 10^1 10^2 10^3 10^4 10^5 10^6 10^7 10^8
56
Incident Energy (eV)
20-Ca-40

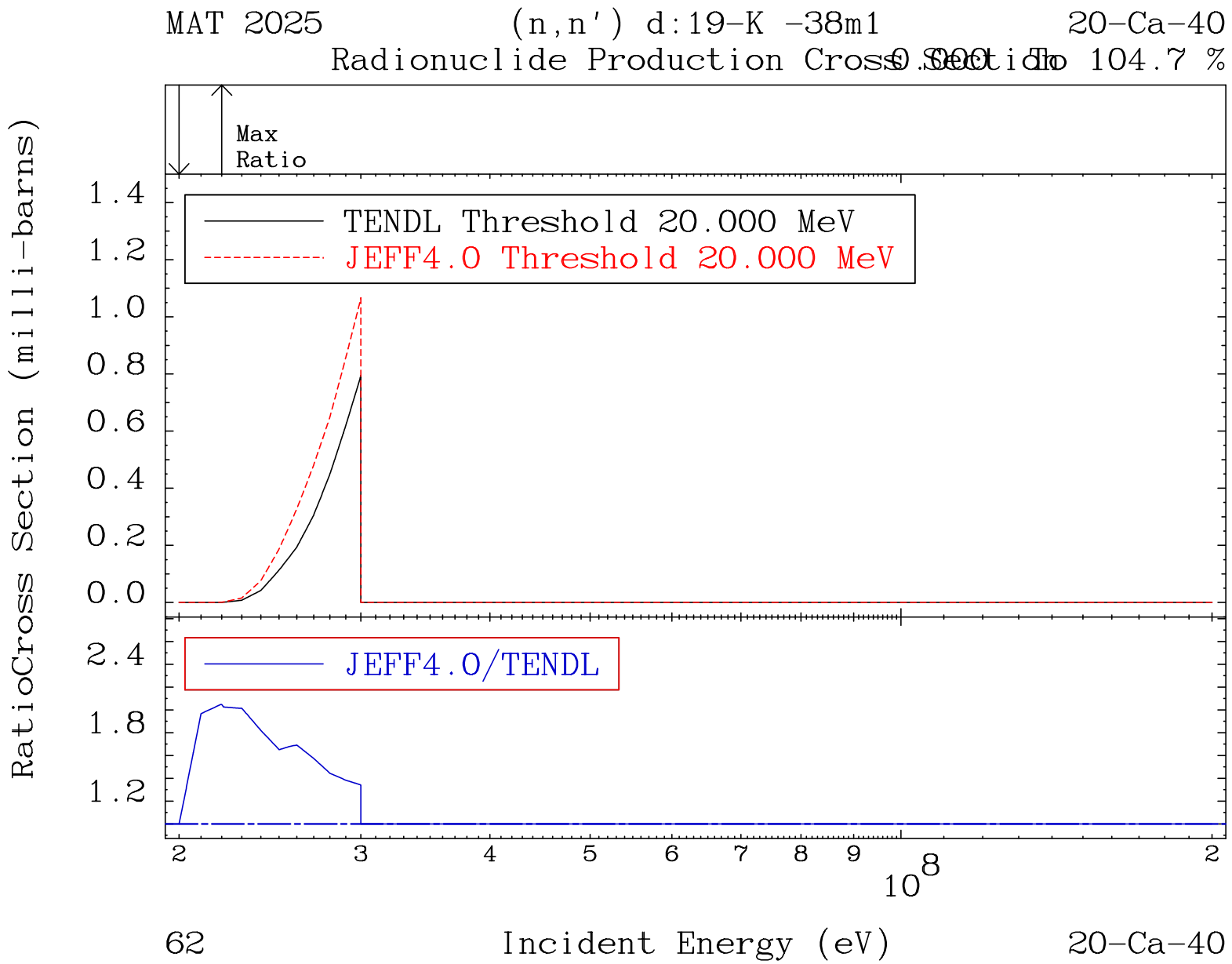

MAT 2025
Dpa total (eV-barns)
20-Ca-40
Cross Section -2.913 To 14.26 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
57
20-Ca-40

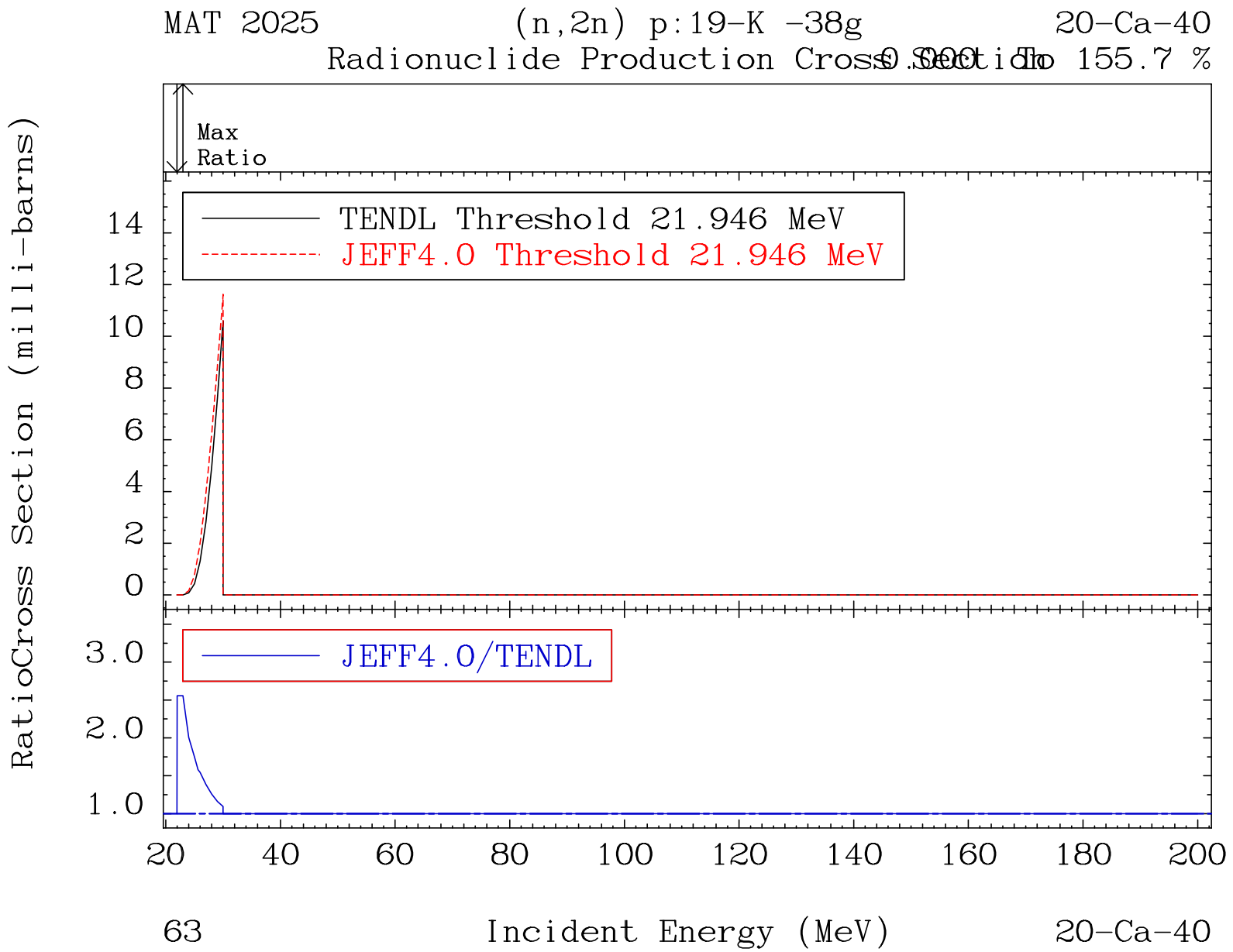

MAT 2025
Dpa elastic (mt2)
Cross Section
20-Ca-40
-1.073 To 4.559 %
Max Ratio
Min Ratio
TENDL Threshold 425.00 eV
JEFF4.0 Threshold 425.00 eV
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
58
20-Ca-40

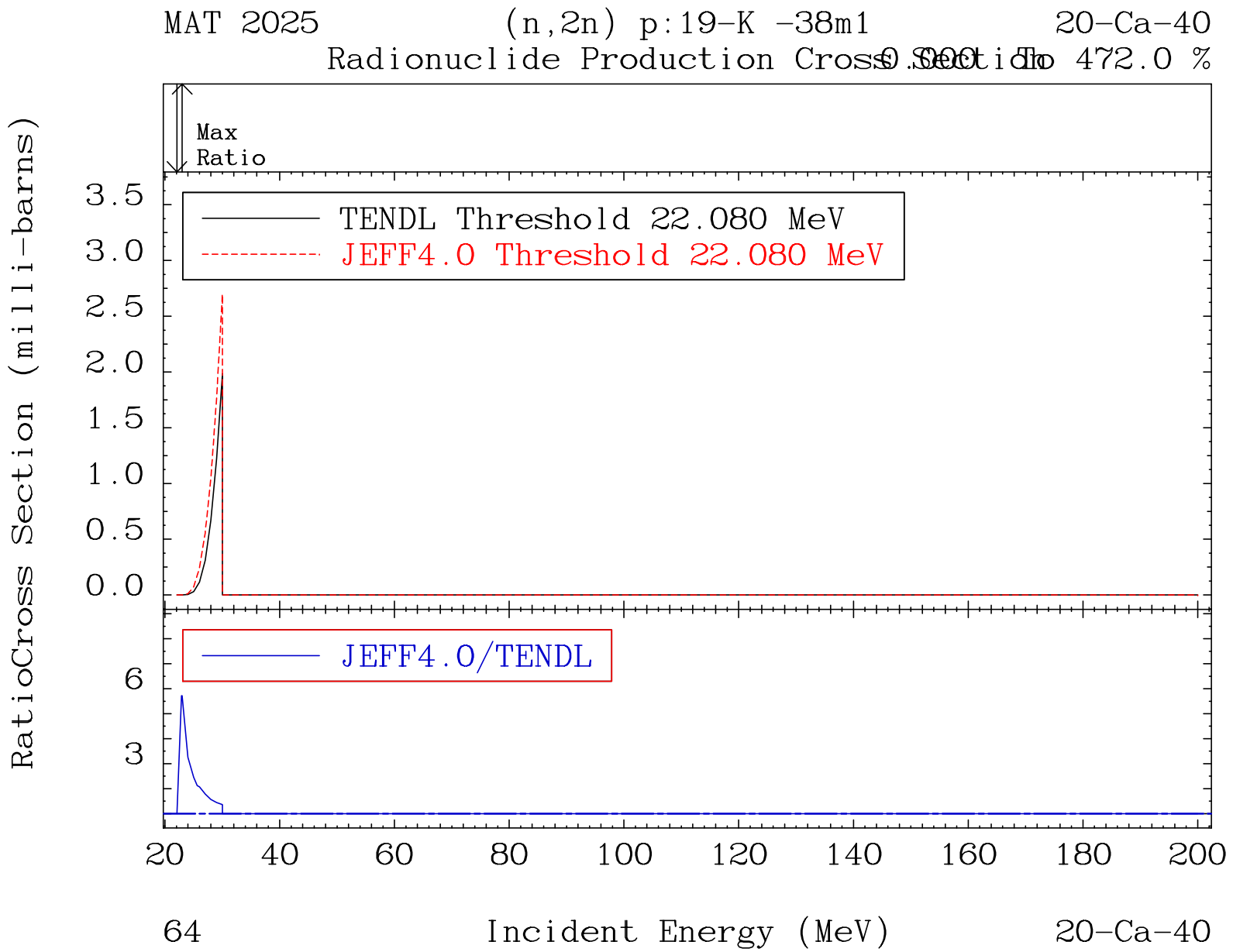

MAT 2025
Dpa inelastic (mt51-91)
20-Ca-40
Cross Section
-4.675 To 52.20 %
Min Ratio
Max Ratio
TENDL Threshold 3.4372 MeV
JEFF4.0 Threshold 3.4372 MeV
Cross Section (barns)
10^6
10^3
10^0
10^-3
10^-6
JEFF4.0/TENDL
Ratio
1.6
1.2
4 5 6 7 8
10^7
2 3 4 5 6 7 8
10^8
2
59
Incident Energy (eV)
20-Ca-40

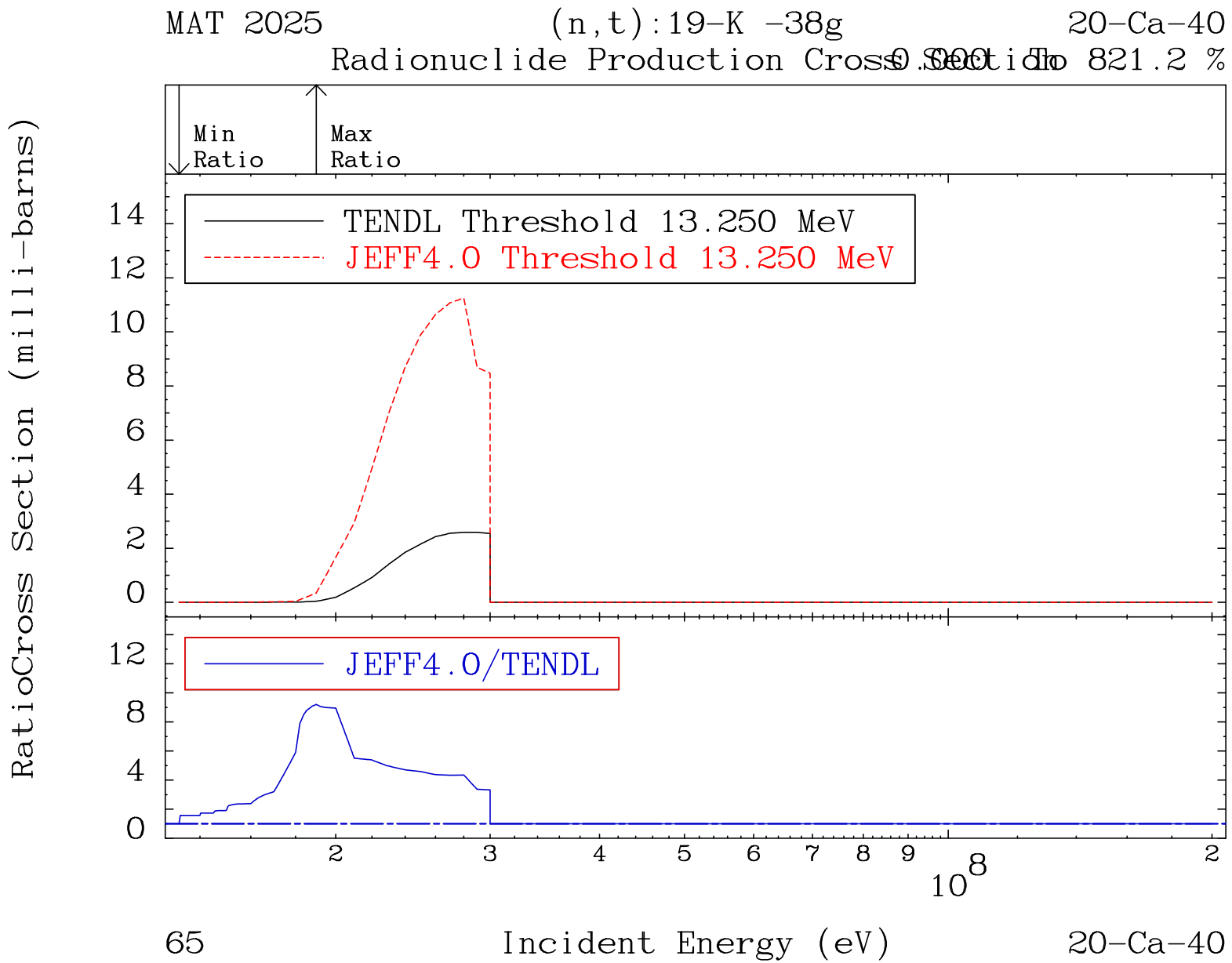

MAT 2025 Dpa disappearance (mt102 -120) 20-Ca-40
Cross Section -50.29 To 24.08 %
Max Ratio
Min Ratio
TENDL
JEFF4.0
Cross Section (barns)
JEFF4.0/TENDL
Ratio
Incident Energy (eV)
60
20-Ca-40

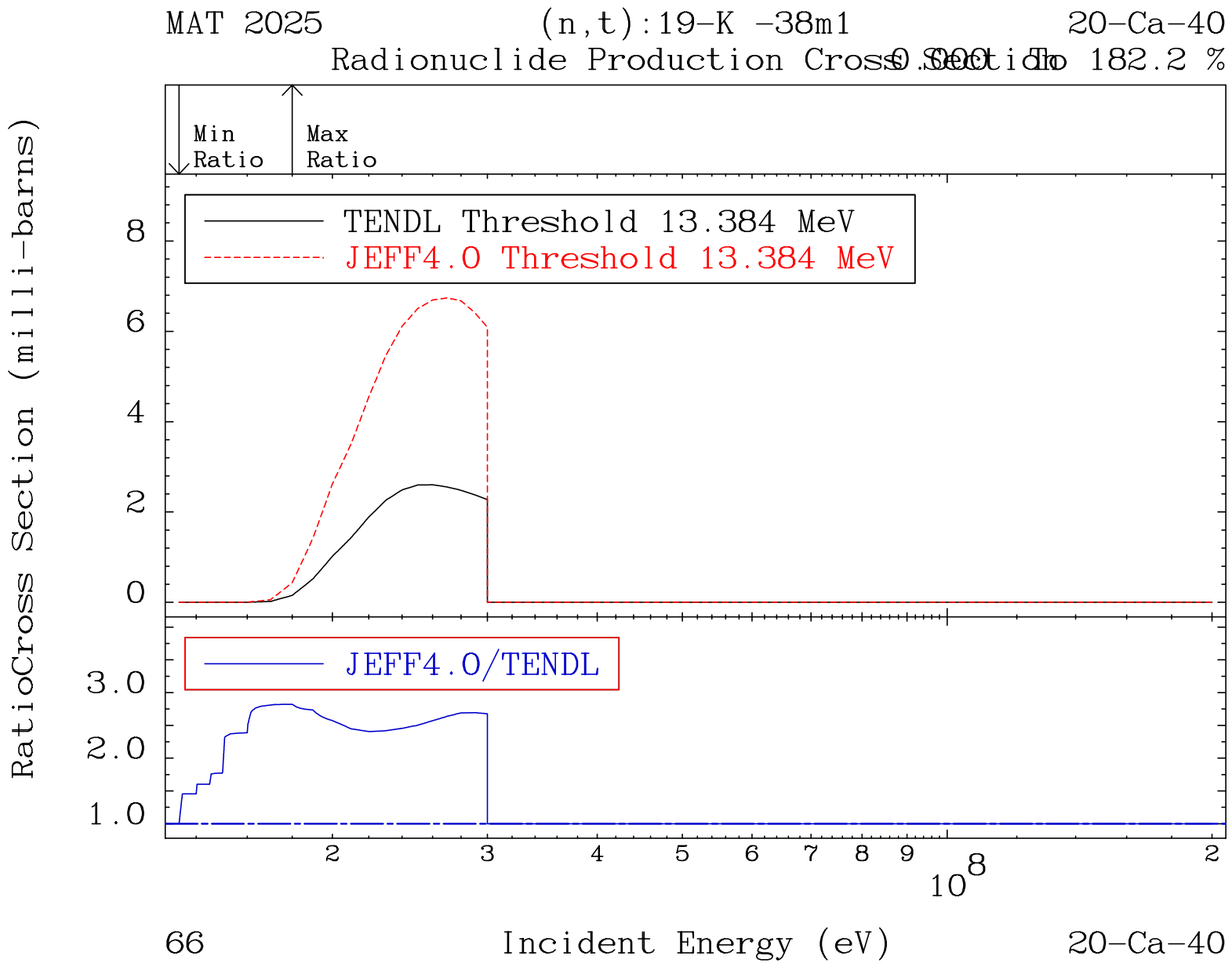

MAT 2025
(n,n') d:19-K -38g
20-Ca-40
Radionuclide Production Cross Section To 102.4 %
Max
Ratio
TENDL Threshold 19.666 MeV
JEFF4.0 Threshold 19.666 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
100
80
60
40
20
0
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
61
Incident Energy (eV)
20-Ca-40


MAT 2025
(n,n') d:19-K -38m1
20-Ca-40
Radionuclide Production Cross Section
0.000 To 104.7 %
Max
Ratio
TENDL Threshold 20.000 MeV
JEFF4.0 Threshold 20.000 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.4
1.8
1.2
2
3
4
5
6
7
8
9
10^8
2
62
Incident Energy (eV)
20-Ca-40


MAT 2025
(n,2n) p:19-K -38g
20-Ca-40
Radionuclide Production Cross Section
0.000 To 155.7 %
Max
Ratio
TENDL Threshold 21.946 MeV
JEFF4.0 Threshold 21.946 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
3.0
2.0
1.0
20
40
60
80
100
120
140
160
180
200
63
Incident Energy (MeV)
20-Ca-40


MAT 2025
(n,2n) p:19-K -38m1
20-Ca-40
Radionuclide Production Cross Section
0.000 To 472.0 %
Max
Ratio
TENDL Threshold 22.080 MeV
JEFF4.0 Threshold 22.080 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
6
3
20
40
60
80
100
120
140
160
180
200
64
Incident Energy (MeV)
20-Ca-40


MAT 2025
(n,t):19-K -38g
20-Ca-40
Radionuclide Production Cross Section
0.000 To 821.2 %
Min Ratio
Max Ratio
TENDL Threshold 13.250 MeV
JEFF4.0 Threshold 13.250 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
14
12
10
8
6
4
2
0
12
8
4
0
2
3
4
5
6
7
8
9
2
10^8
65
Incident Energy (eV)
20-Ca-40


MAT 2025
(n,t):19-K -38m1
20-Ca-40
Radionuclide Production Cross Section
0.000 To 182.2 %
Min Ratio
Max Ratio
TENDL Threshold 13.384 MeV
JEFF4.0 Threshold 13.384 MeV
JEFF4.0/TENDL
RatioCross Section (milli-barns)
Incident Energy (eV)
66
20-Ca-40