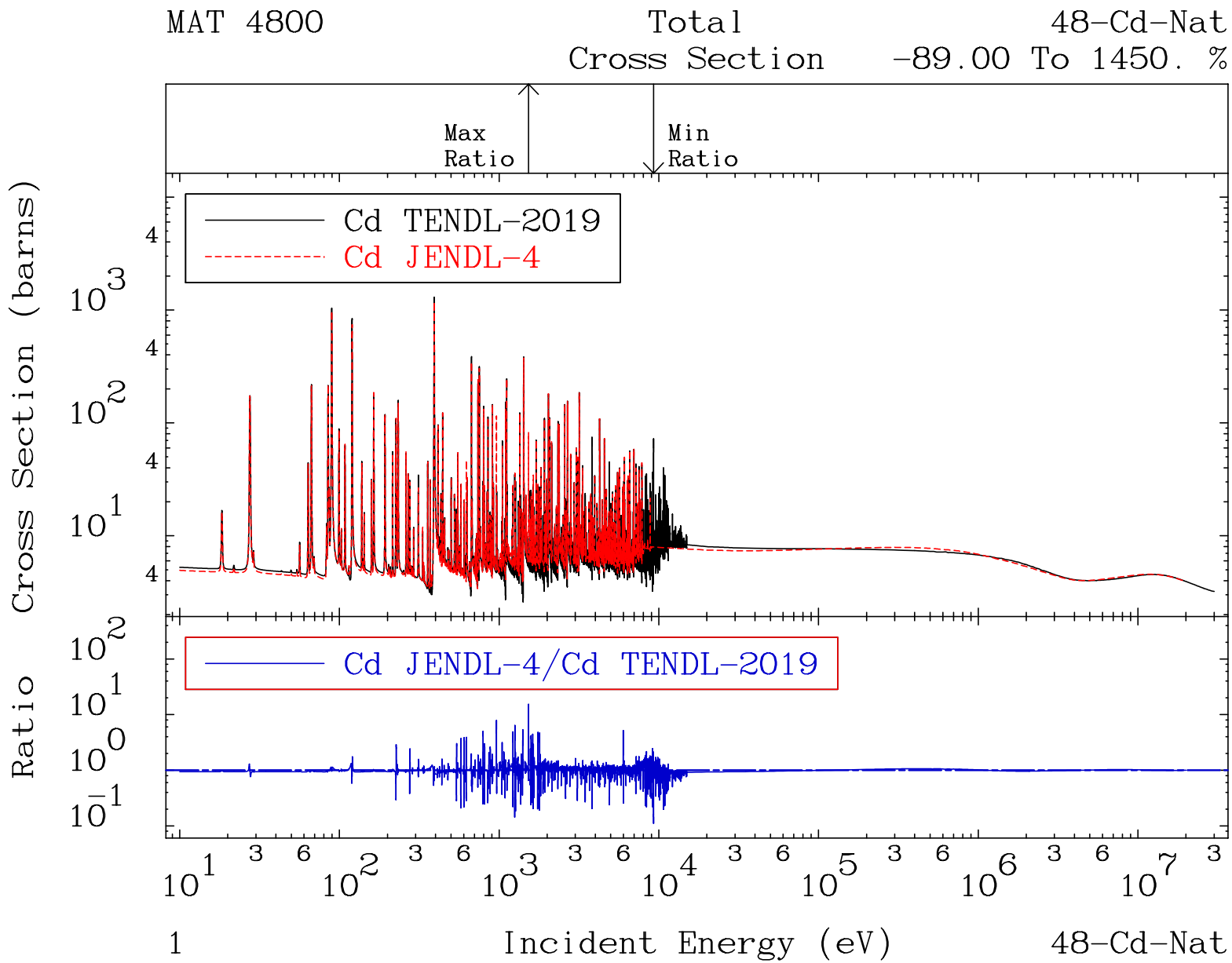
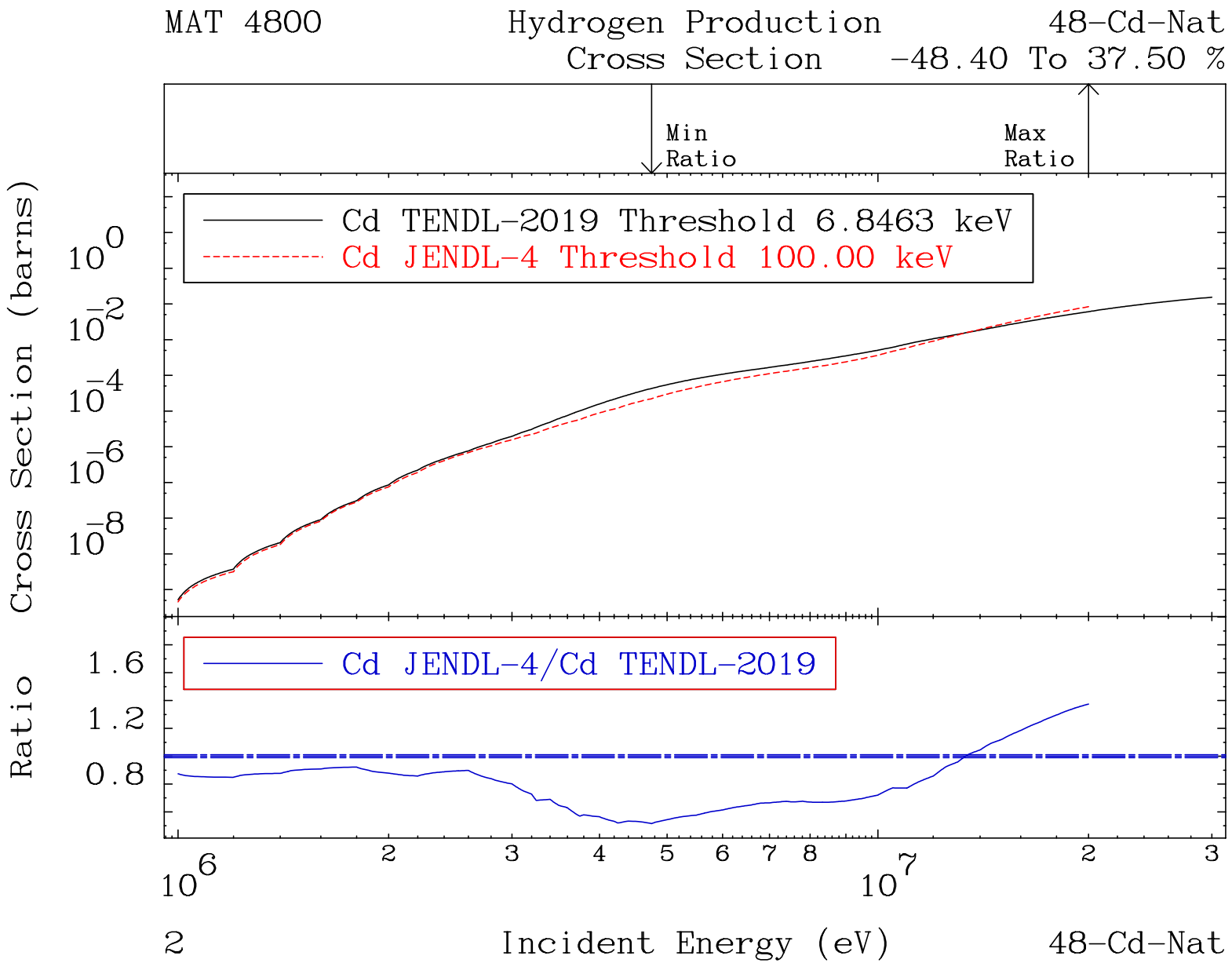
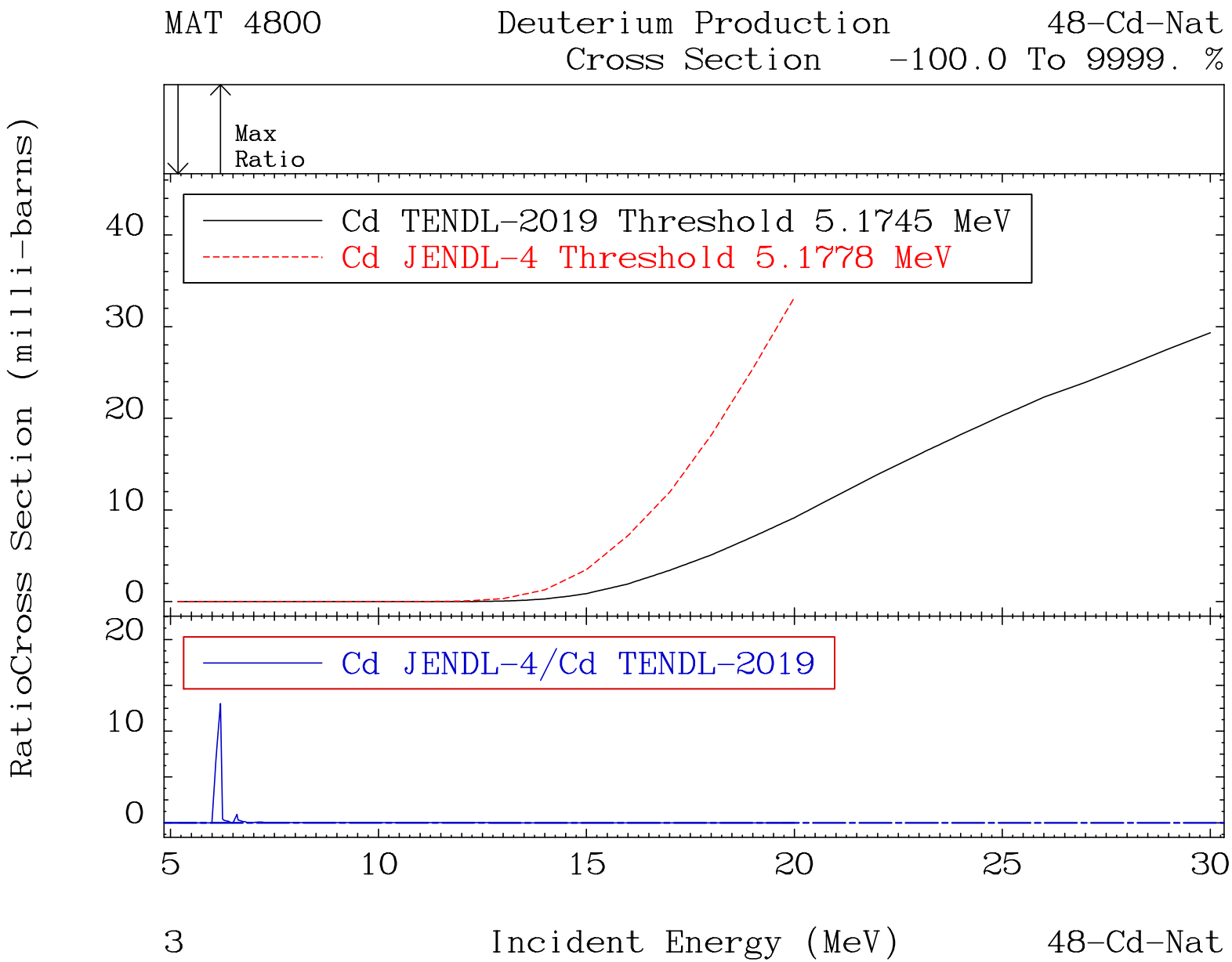
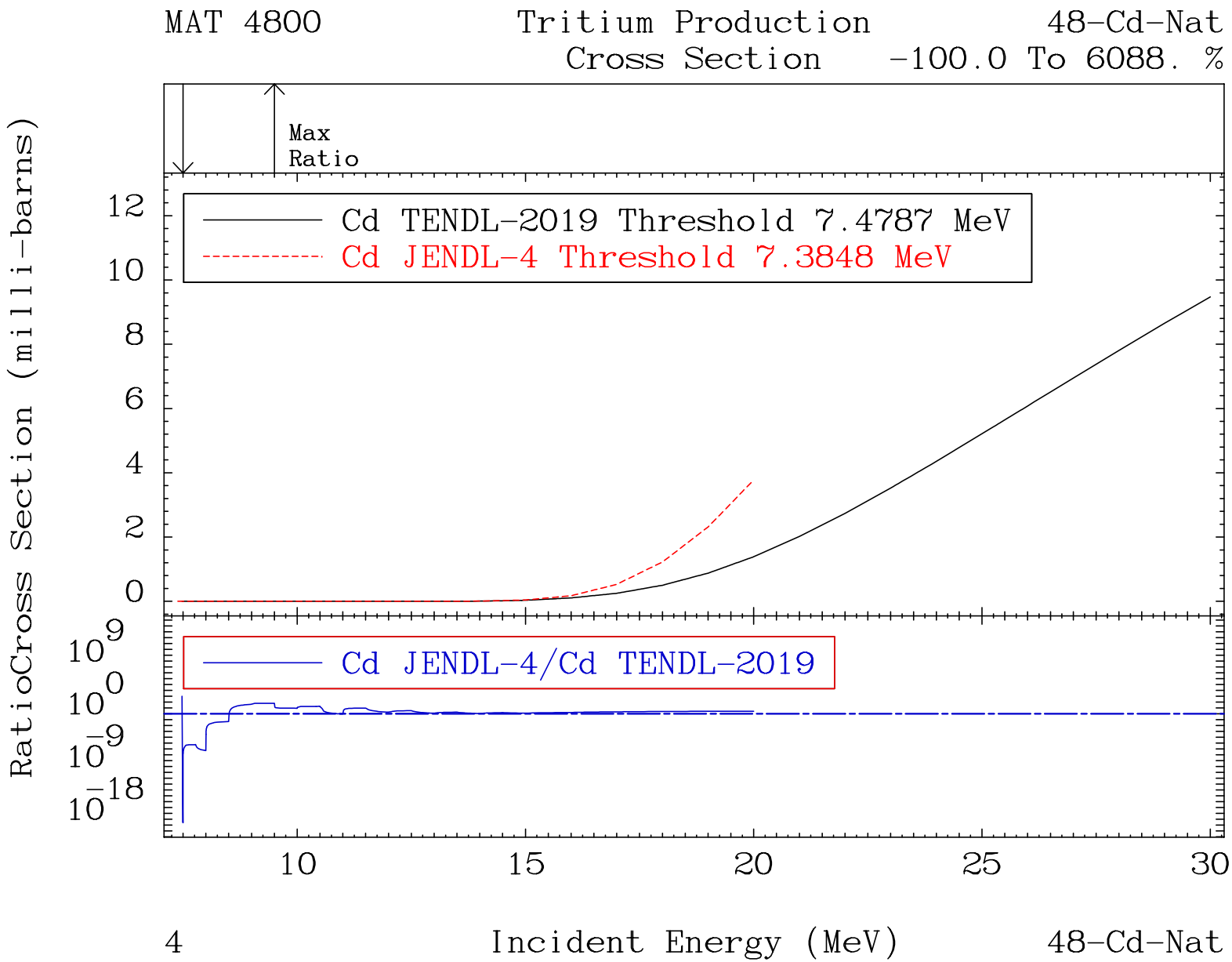
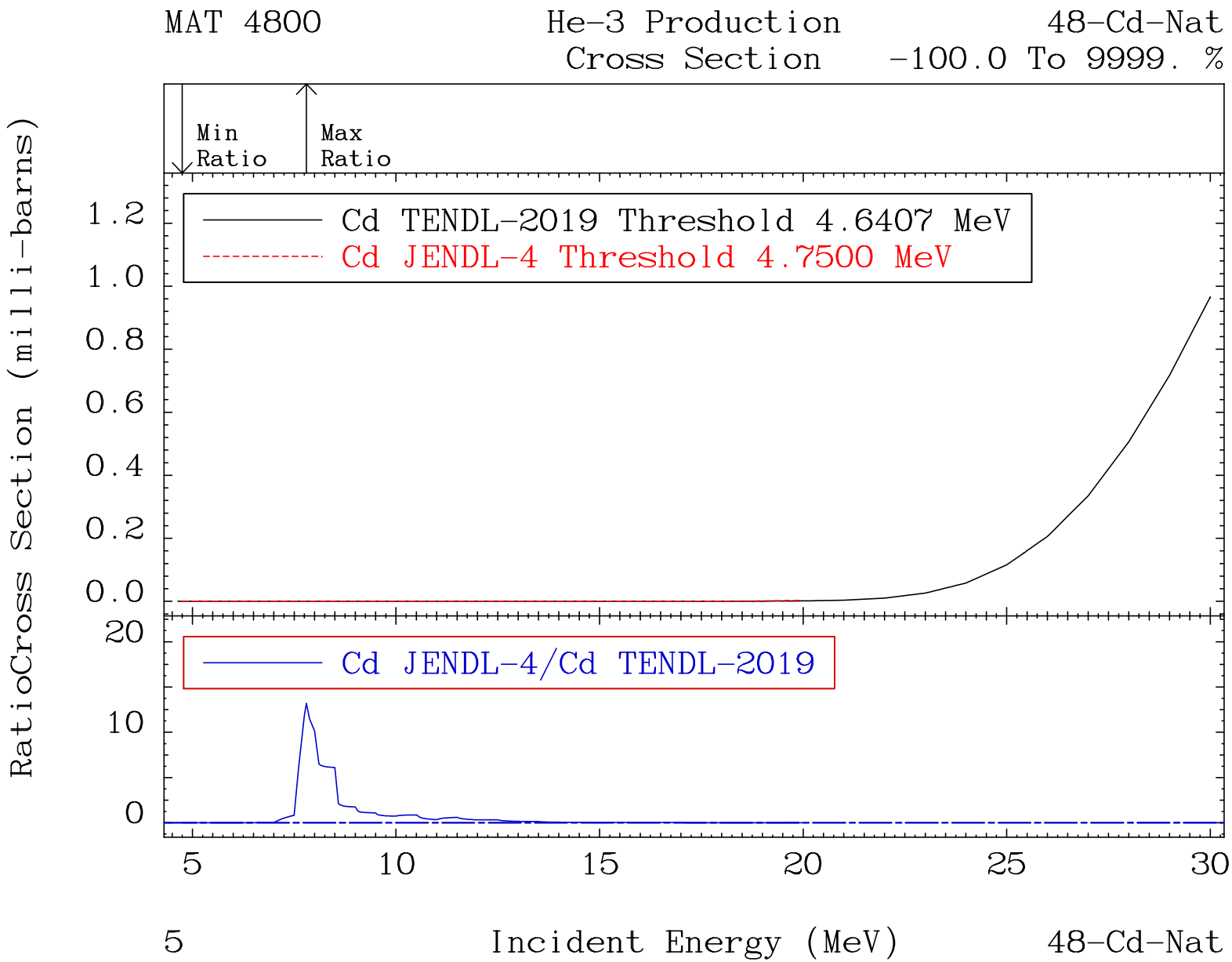
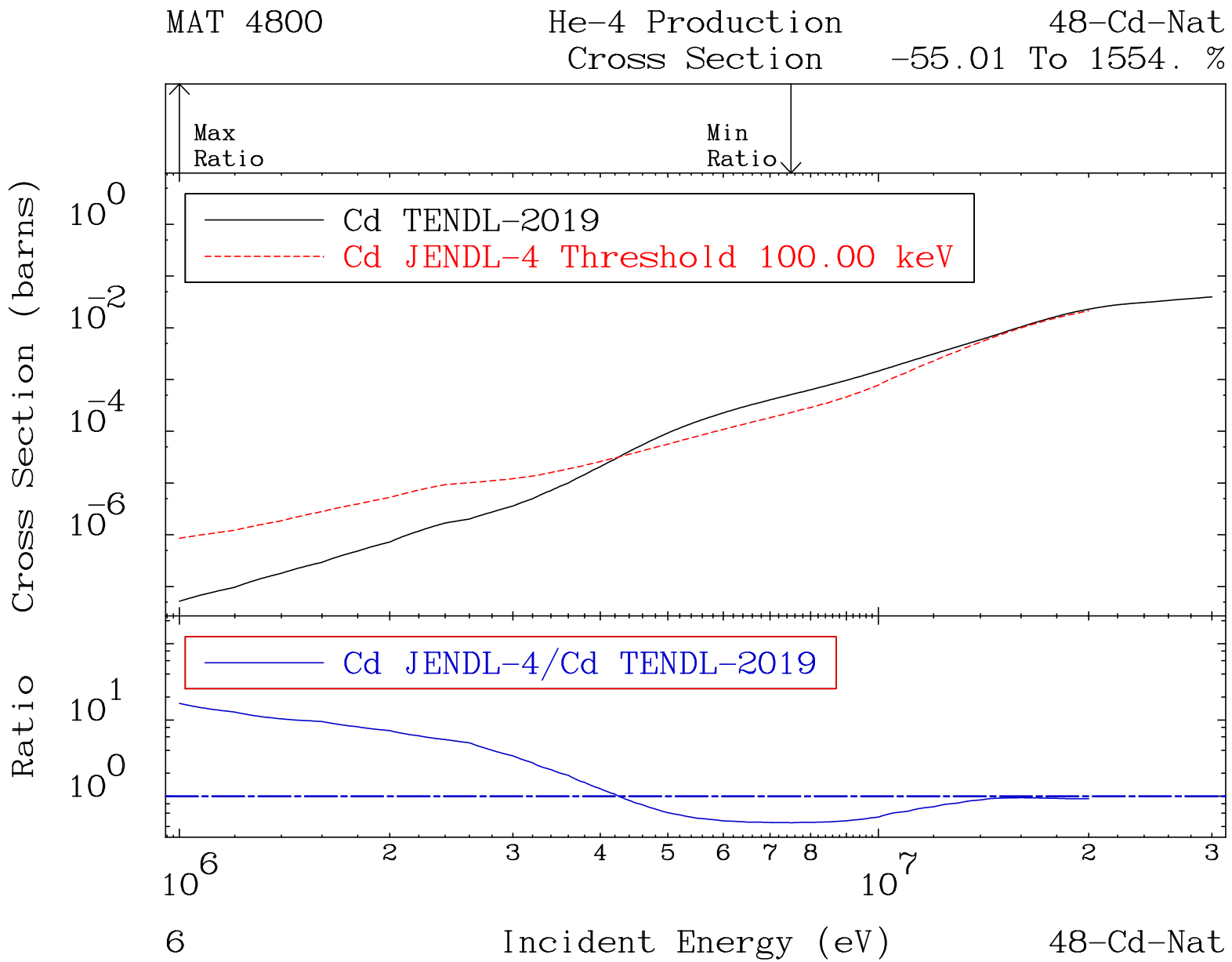

MAT 4800
Total
Cross Section
48-Cd-Nat
-89.00 To 1450. %
Max
Ratio
Min
Ratio
Cd TENDL-2019
Cd JENDL-4
Cd JENDL-4/Cd TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
48-Cd-Nat

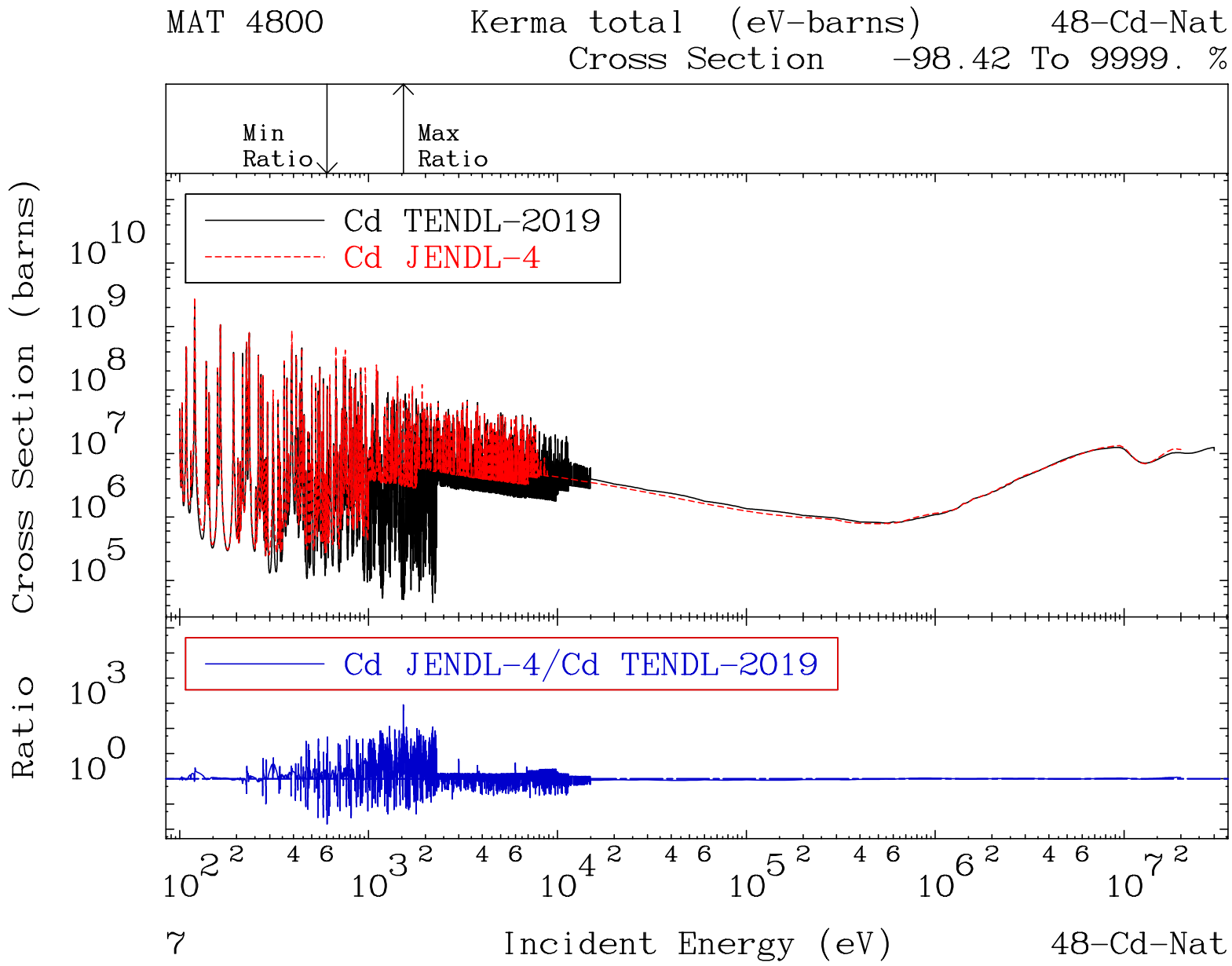

MAT 4800
Hydrogen Production
Cross Section
48-Cd-Nat
-48.40 To 37.50 %
Min Ratio
Max Ratio
Cd TENDL-2019 Threshold 6.8463 keV
Cd JENDL-4 Threshold 100.00 keV
Cross Section (barns)
Cd JENDL-4/Cd TENDL-2019
Ratio
Incident Energy (eV)
48-Cd-Nat

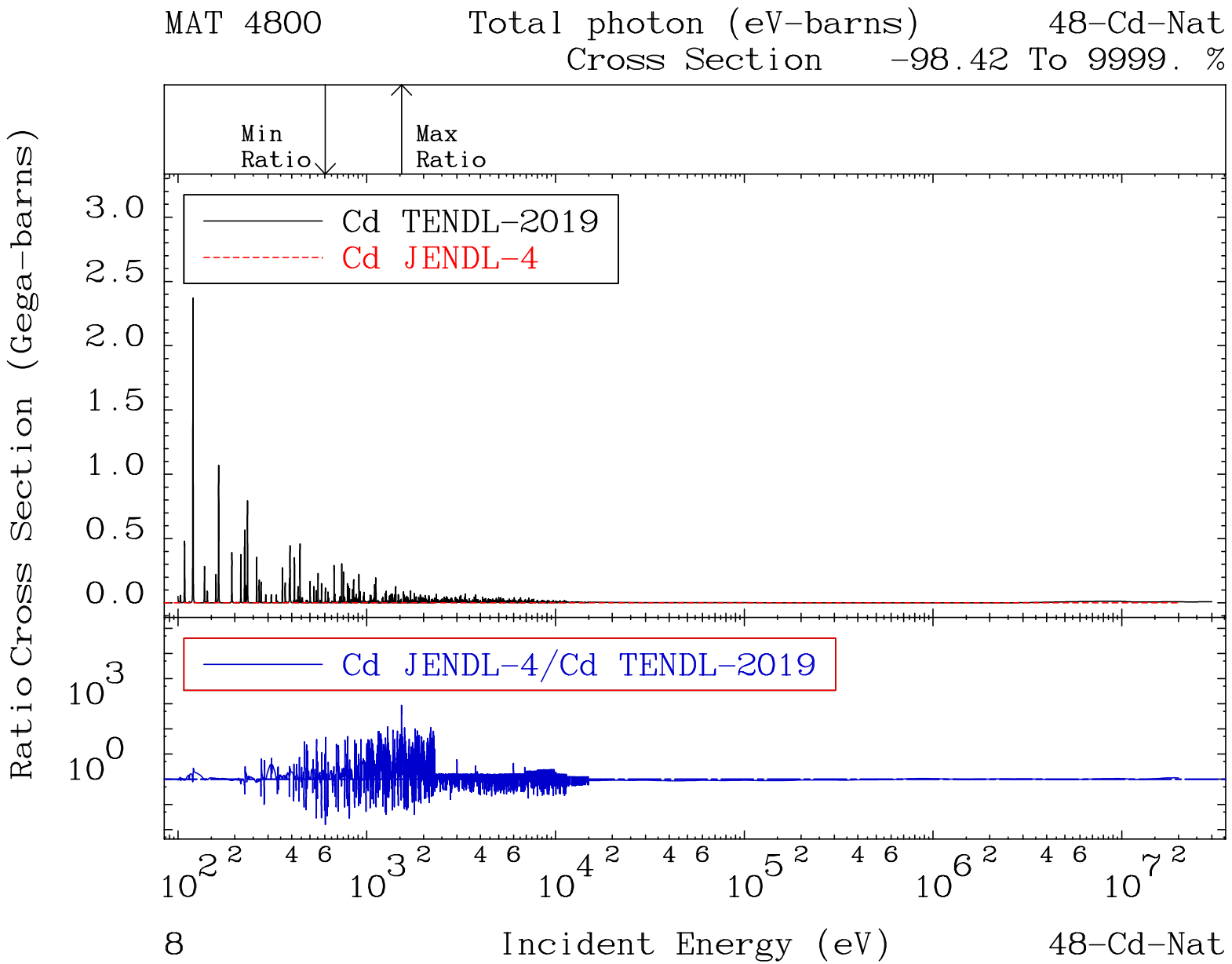

MAT 4800
Deuterium Production
48-Cd-Nat
Cross Section -100.0 To 9999. %
Max
Ratio
Cd TENDL-2019 Threshold 5.1745 MeV
Cd JENDL-4 Threshold 5.1778 MeV
Cd JENDL-4/Cd TENDL-2019
RatioCross Section (milli-barns)
40
30
20
10
0
20
10
0
5
10
15
20
25
30
3
Incident Energy (MeV)
48-Cd-Nat

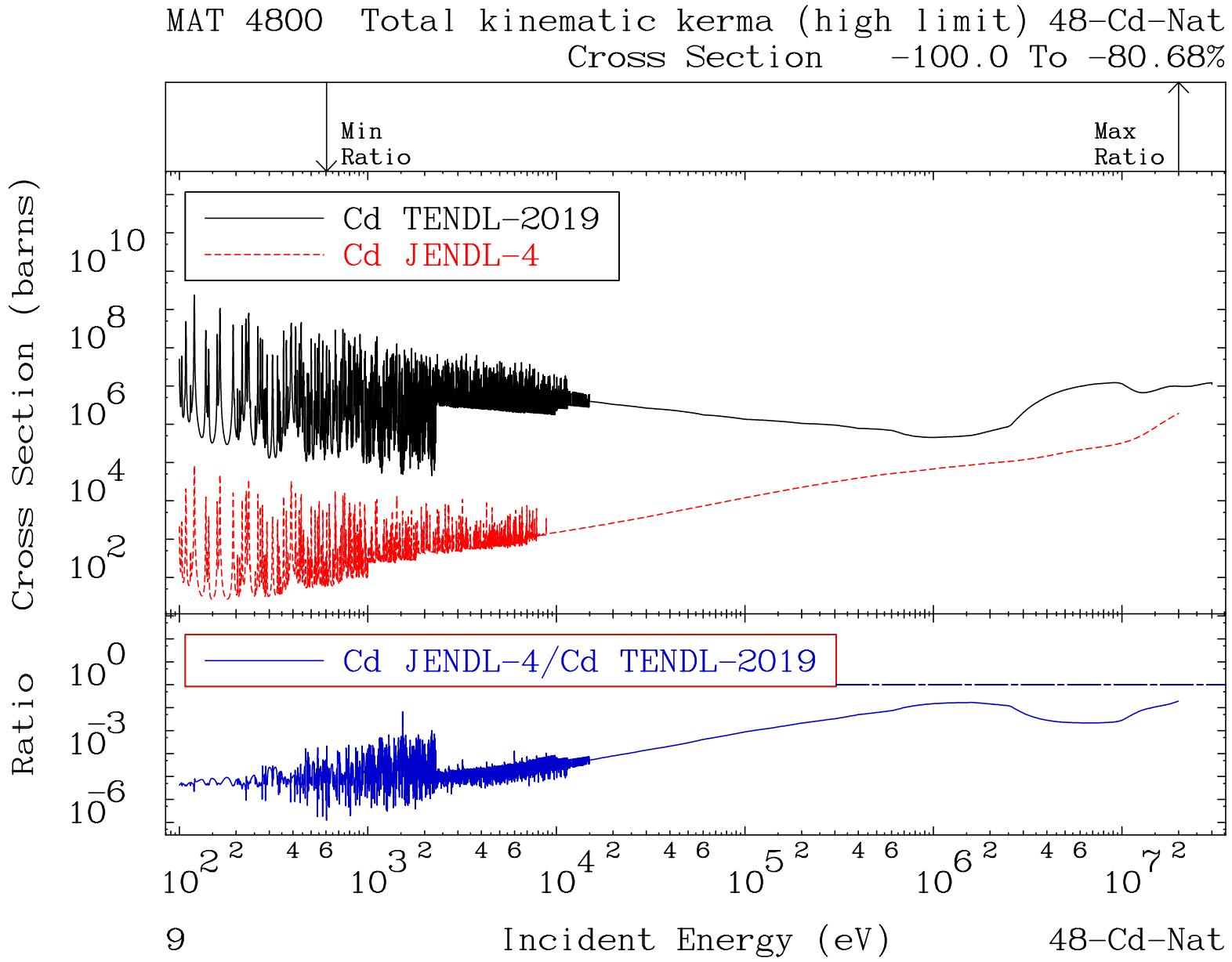

MAT 4800
Tritium Production
48-Cd-Nat
Cross Section
-100.0 To 6088. %
Max
Ratio
Cd TENDL-2019 Threshold 7.4787 MeV
Cd JENDL-4 Threshold 7.3848 MeV
Cd JENDL-4/Cd TENDL-2019
RatioCross Section (milli-barns)
12
10
8
6
4
2
0
10^9
10^0
10^-9
10^-18
10
15
20
25
30
4
Incident Energy (MeV)
48-Cd-Nat

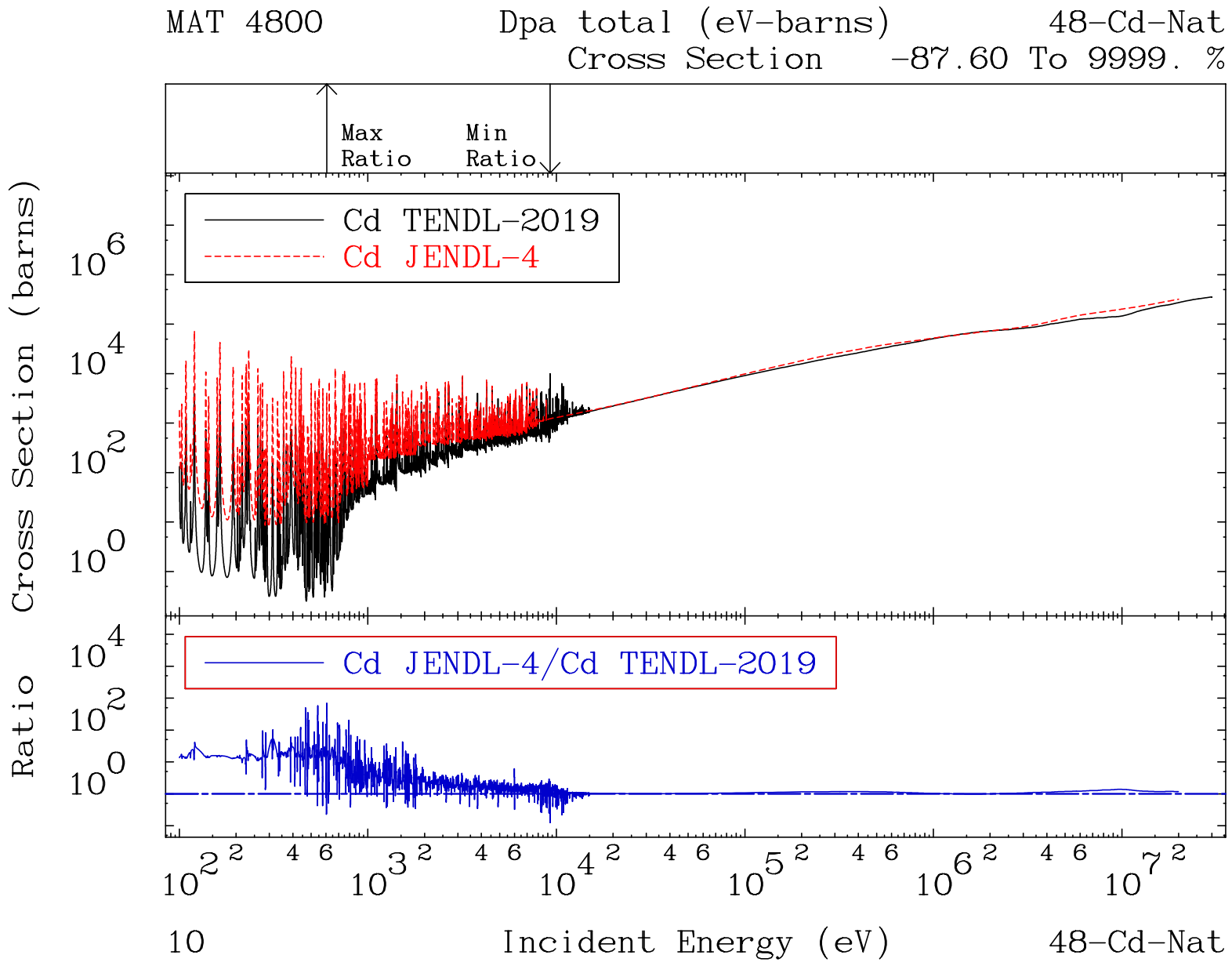

MAT 4800
He-3 Production
Cross Section
48-Cd-Nat
-100.0 To 9999. %
Min Ratio
Max Ratio
Cd TENDL-2019 Threshold 4.6407 MeV
Cd JENDL-4 Threshold 4.7500 MeV
Cd JENDL-4/Cd TENDL-2019
RatioCross Section (milli-barns)
1.2
1.0
0.8
0.6
0.4
0.2
0.0
20
10
0
5
10
15
20
25
30
5
Incident Energy (MeV)
48-Cd-Nat

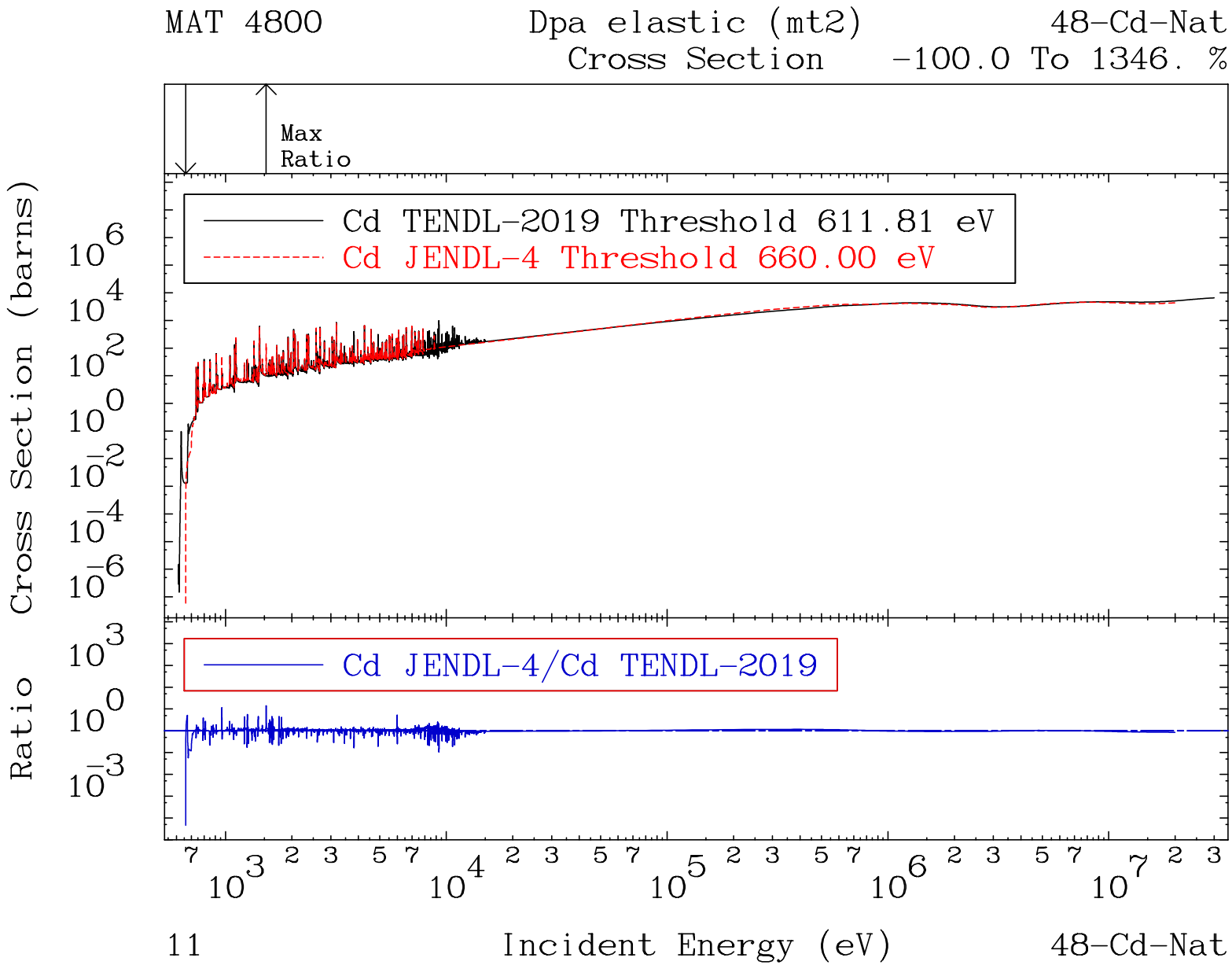

MAT 4800
He-4 Production
Cross Section
48-Cd-Nat
-55.01 To 1554. %
Max Ratio
Min Ratio
Cd TENDL-2019
Cd JENDL-4 Threshold 100.00 keV
Cd JENDL-4/Cd TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
6
48-Cd-Nat

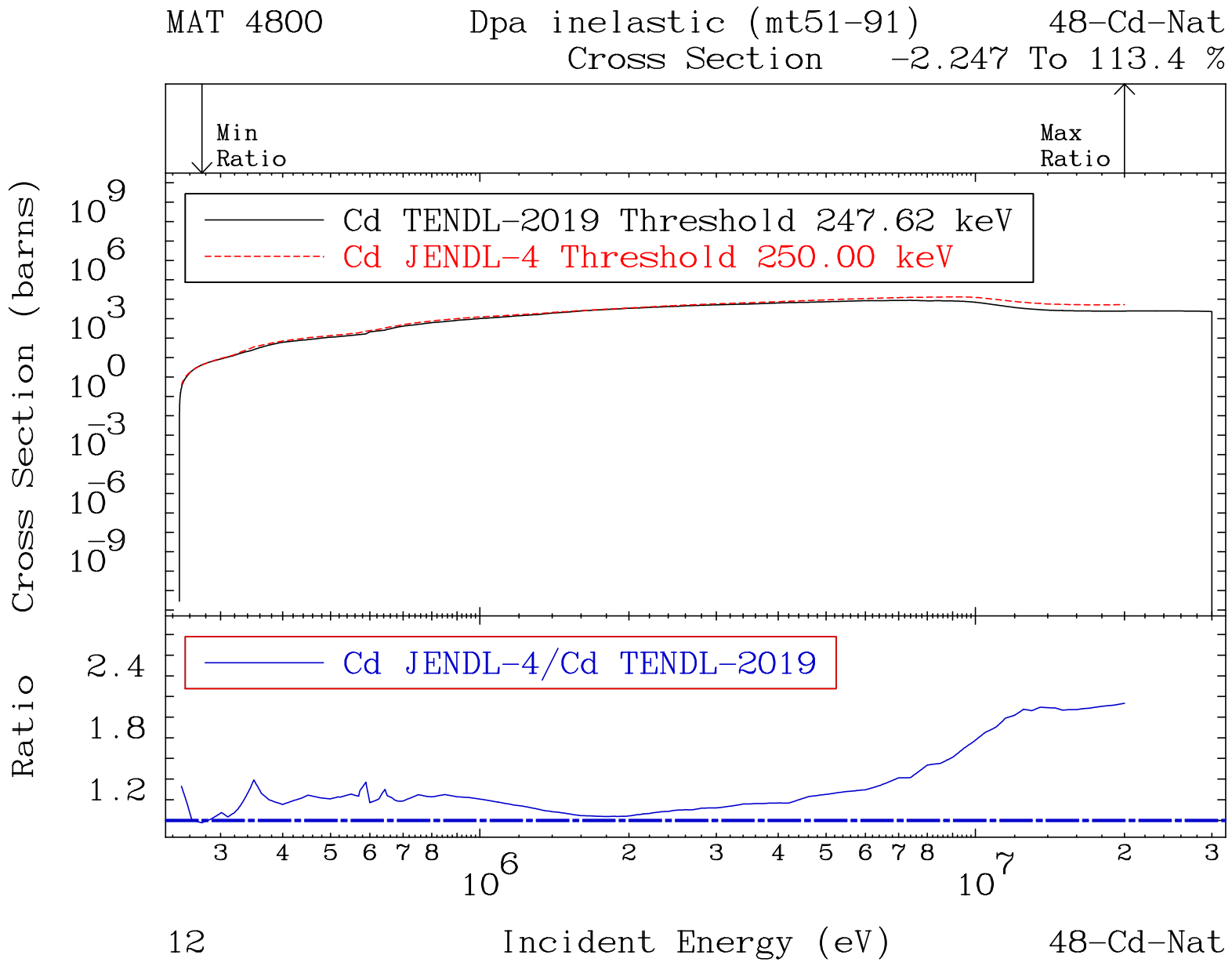

MAT 4800 Kerma total (eV-barns) 48-Cd-Nat
Cross Section -98.42 To 9999. %
Min Ratio
Max Ratio
Cd TENDL-2019
Cd JENDL-4
Cross Section (barns)
Cd JENDL-4/Cd TENDL-2019
Ratio
Incident Energy (eV)
48-Cd-Nat

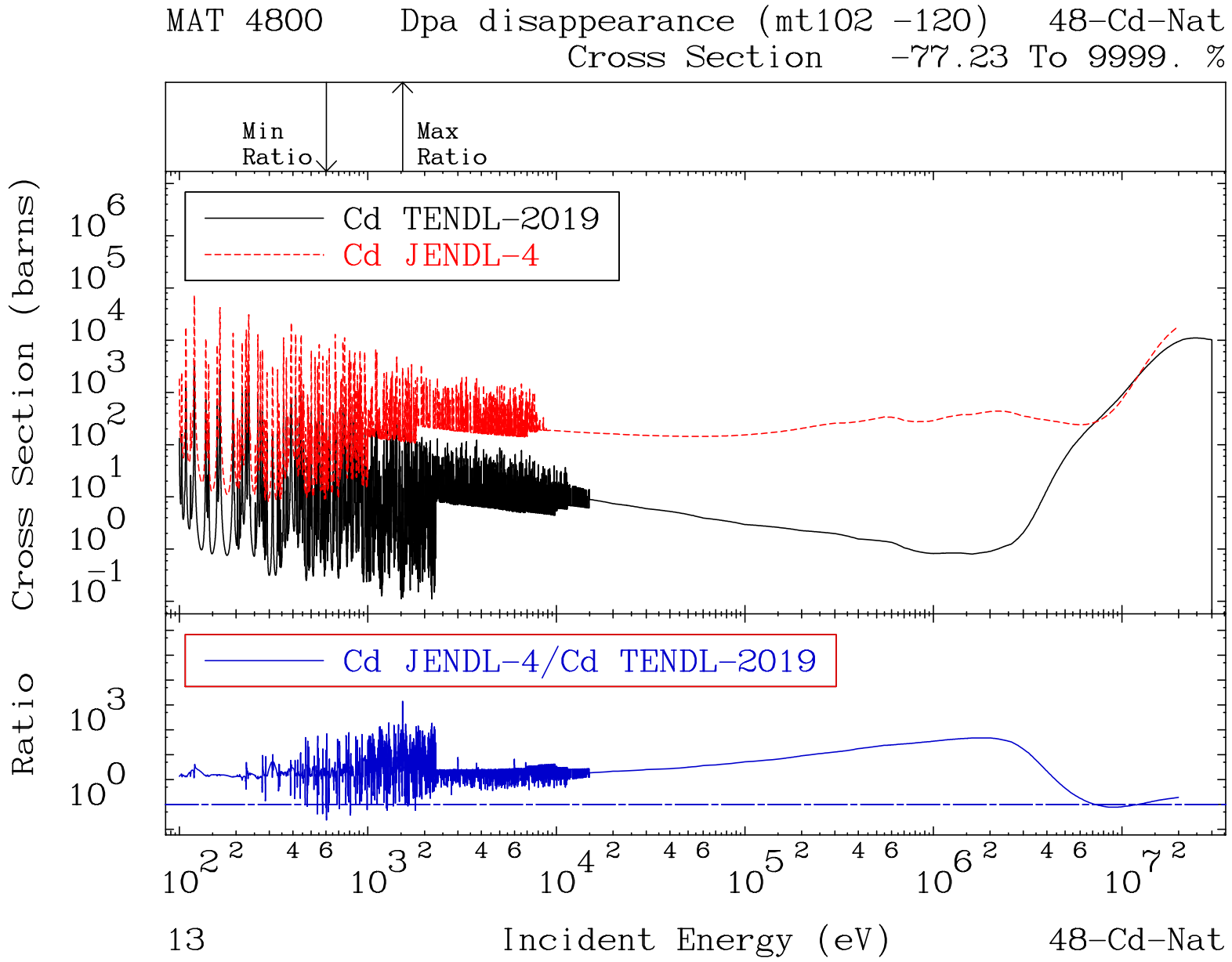

MAT 4800 Total photon (eV-barns) 48-Cd-Nat
Cross Section -98.42 To 9999. %
Min Ratio
Max Ratio
Cd TENDL-2019
Cd JENDL-4
Cd JENDL-4/Cd TENDL-2019
Ratio Cross Section (Giga-barns)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
10^3
10^0
10^2 2 4 6 10^3 2 4 6 10^4 2 4 6 10^5 2 4 6 10^6 2 4 6 10^7 2
8 Incident Energy (eV) 48-Cd-Nat


MAT 4800 Total kinematic kerma (high limit) 48-Cd-Nat
Cross Section -100.0 To -80.68%
Min Ratio
Max Ratio
Cd TENDL-2019
Cd JENDL-4
Cd JENDL-4/Cd TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
9
48-Cd-Nat


MAT 4800
Dpa total (eV-barns)
48-Cd-Nat
Cross Section -87.60 To 9999. %
Max Ratio
Min Ratio
Cd TENDL-2019
Cd JENDL-4
Cd JENDL-4/Cd TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
48-Cd-Nat


MAT 4800
Dpa elastic (mt2)
Cross Section
48-Cd-Nat
-100.0 To 1346. %
Max
Ratio
Cd TENDL-2019 Threshold 611.81 eV
Cd JENDL-4 Threshold 660.00 eV
Cd JENDL-4/Cd TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
11
48-Cd-Nat


MAT 4800
Dpa inelastic (mt51-91)
48-Cd-Nat
Cross Section
-2.247 To 113.4 %
Min Ratio
Max Ratio
Cd TENDL-2019 Threshold 247.62 keV
Cd JENDL-4 Threshold 250.00 keV
Cross Section (barns)
Cd JENDL-4/Cd TENDL-2019
Ratio
Incident Energy (eV)
12
48-Cd-Nat


MAT 4800 Dpa disappearance (mt102 -120) 48-Cd-Nat
Cross Section -77.23 To 9999. %
Min Ratio
Max Ratio
Cd TENDL-2019
Cd JENDL-4
Cross Section (barns)
Cd JENDL-4/Cd TENDL-2019
Ratio
Incident Energy (eV)
13
48-Cd-Nat