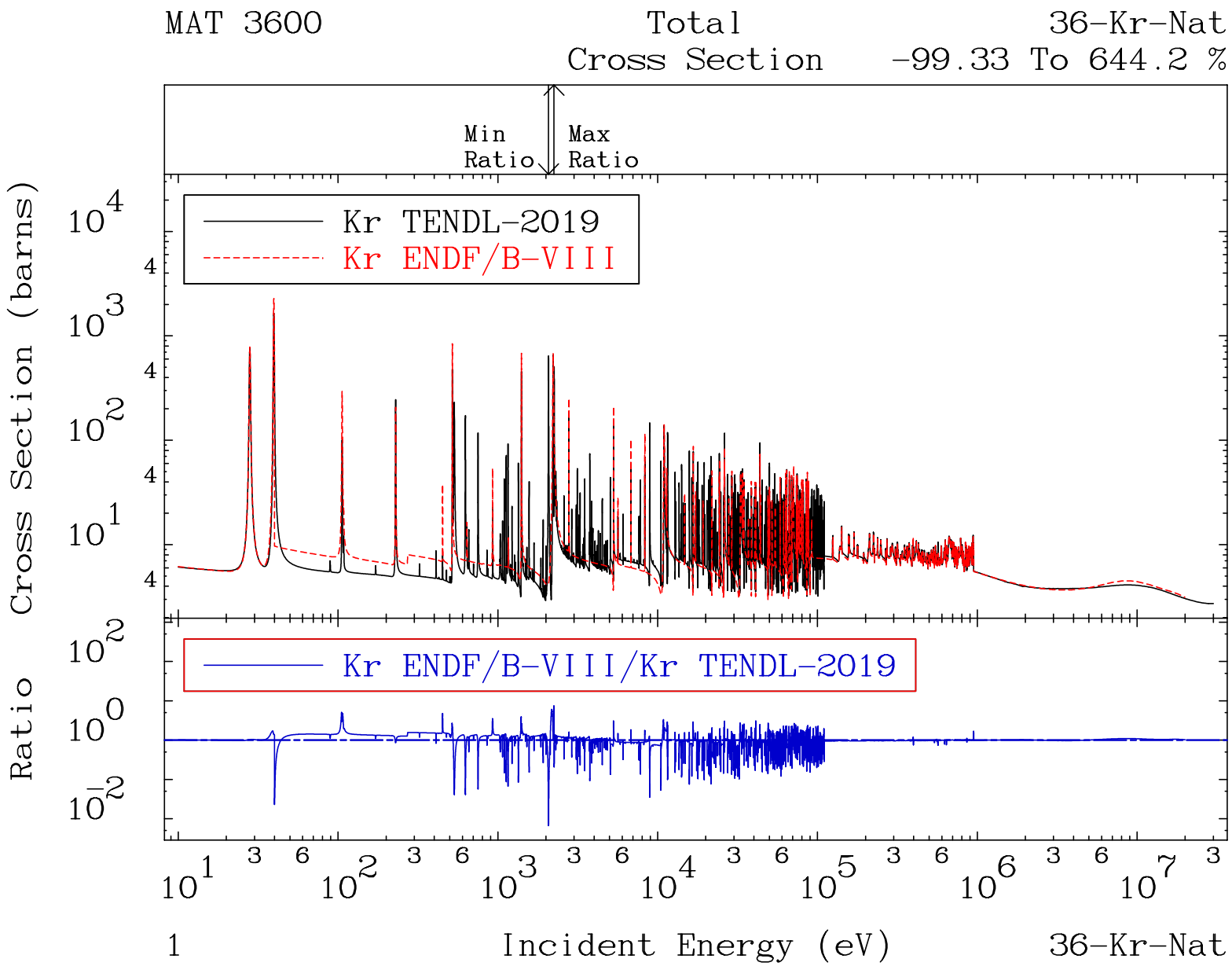
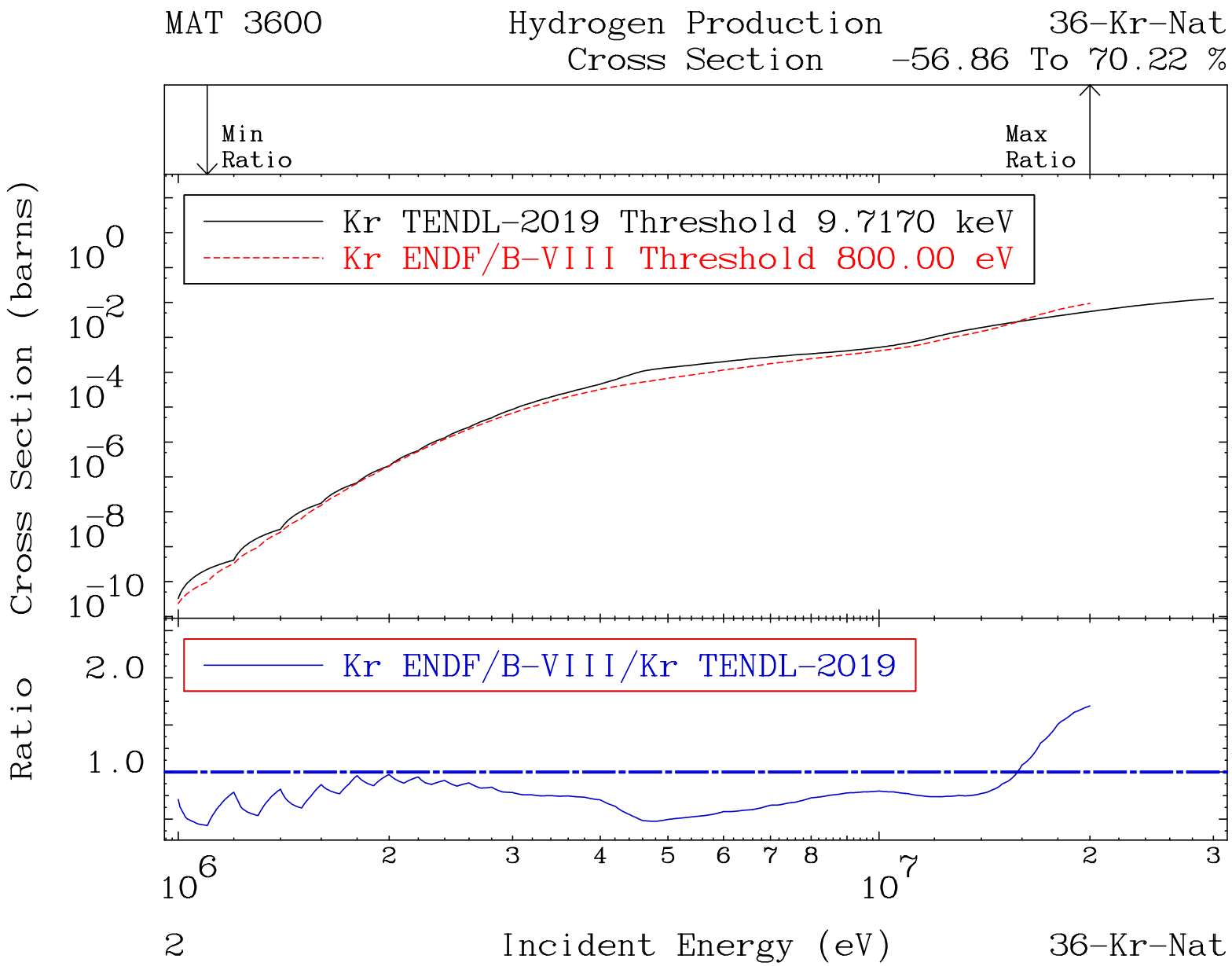
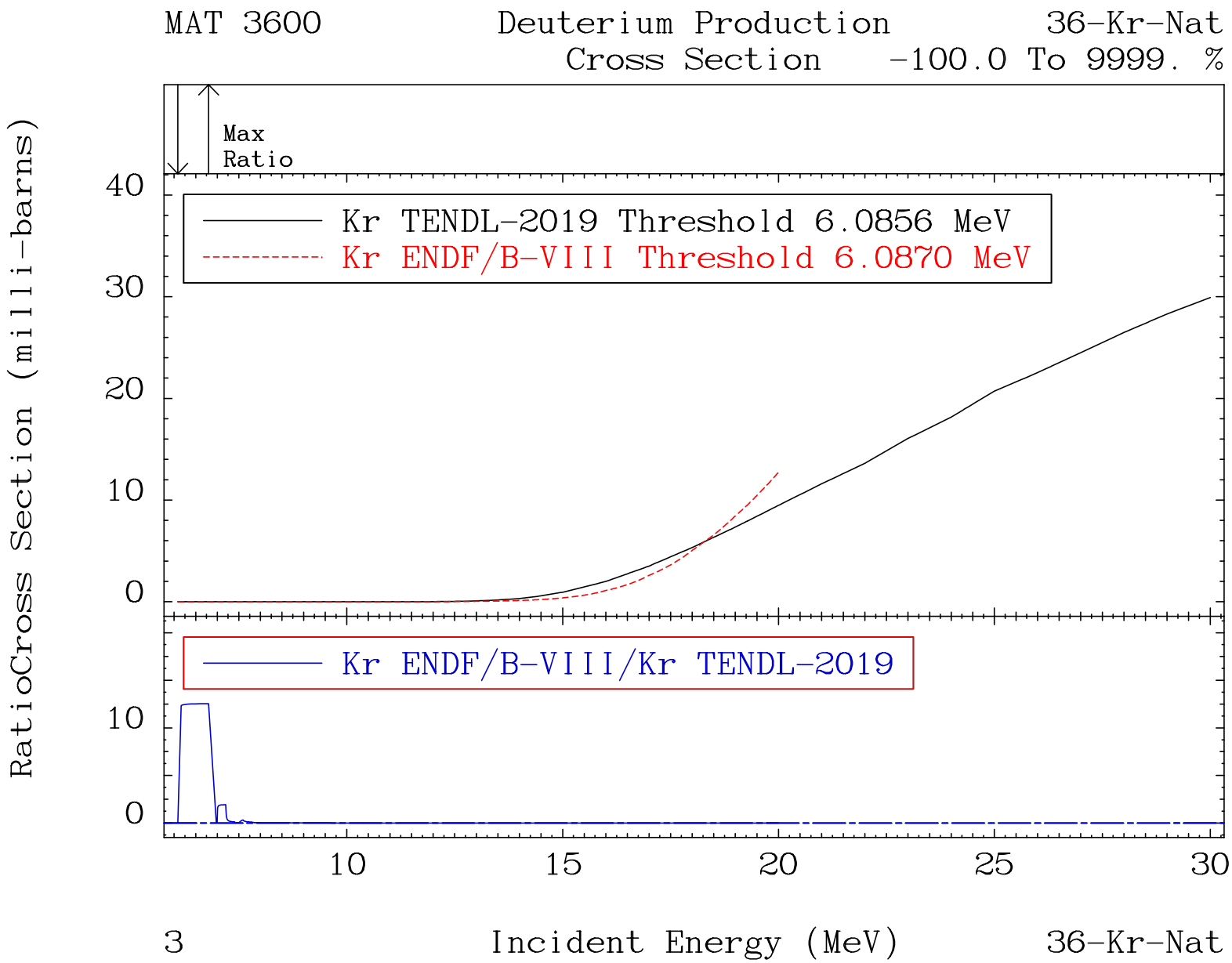
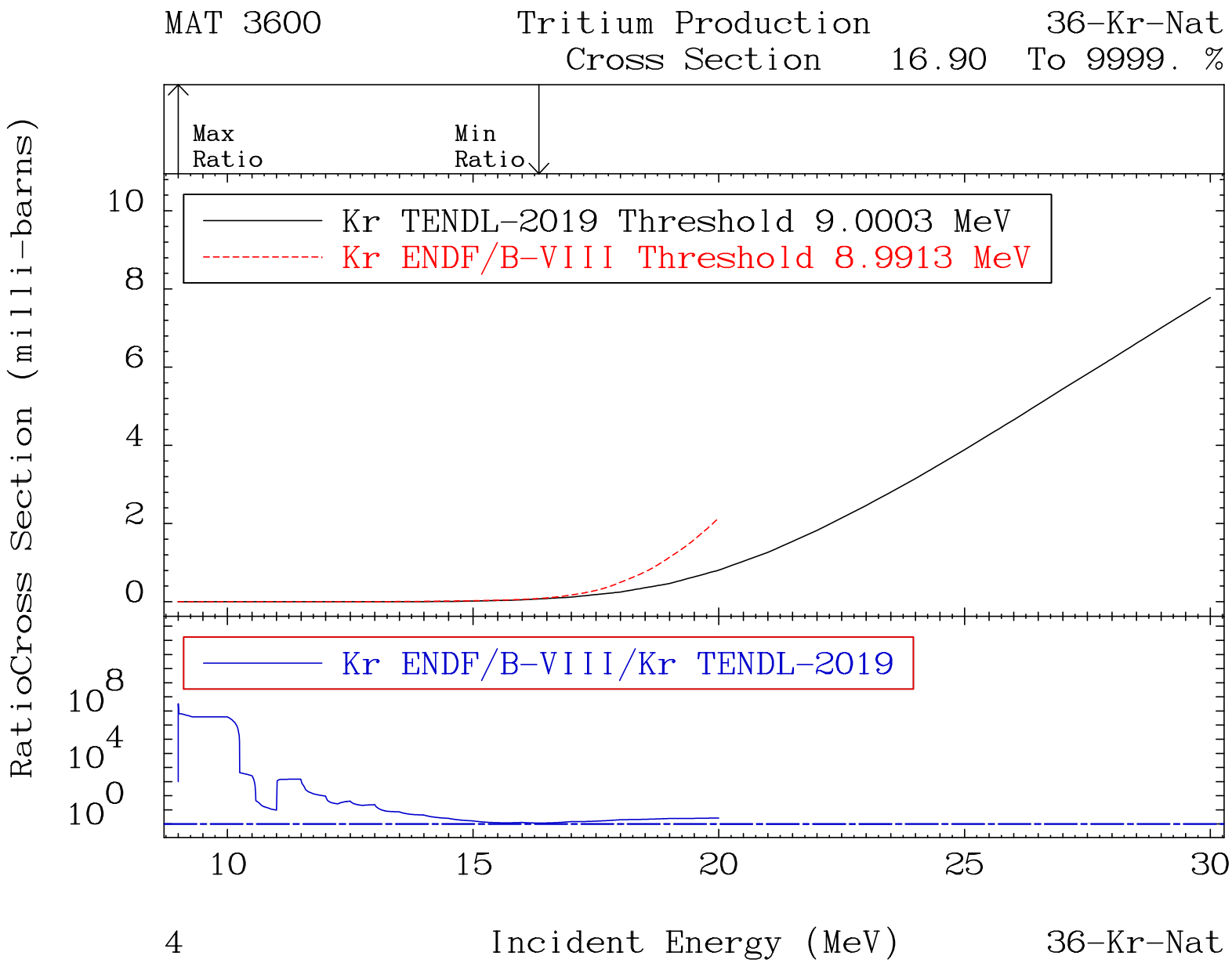
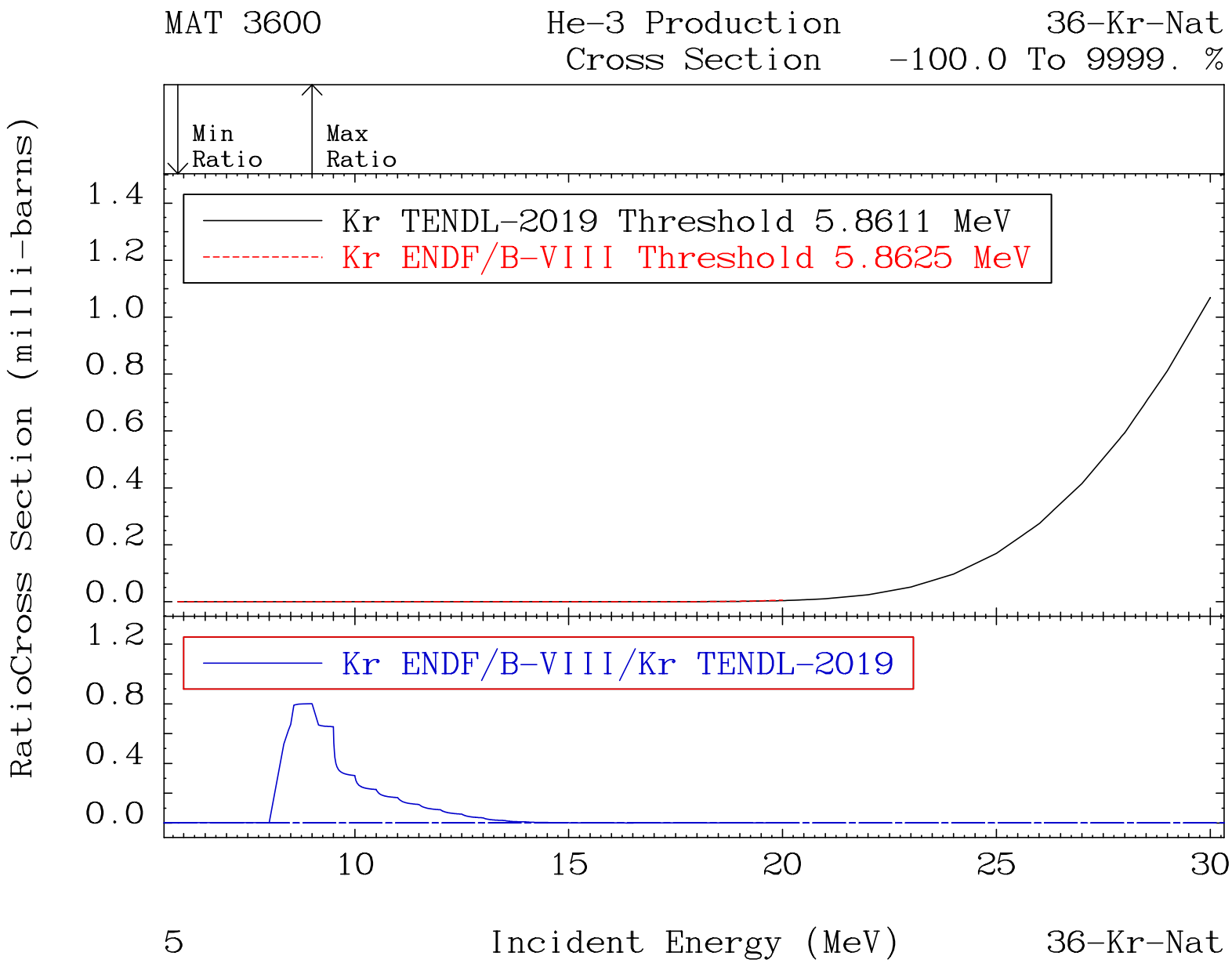
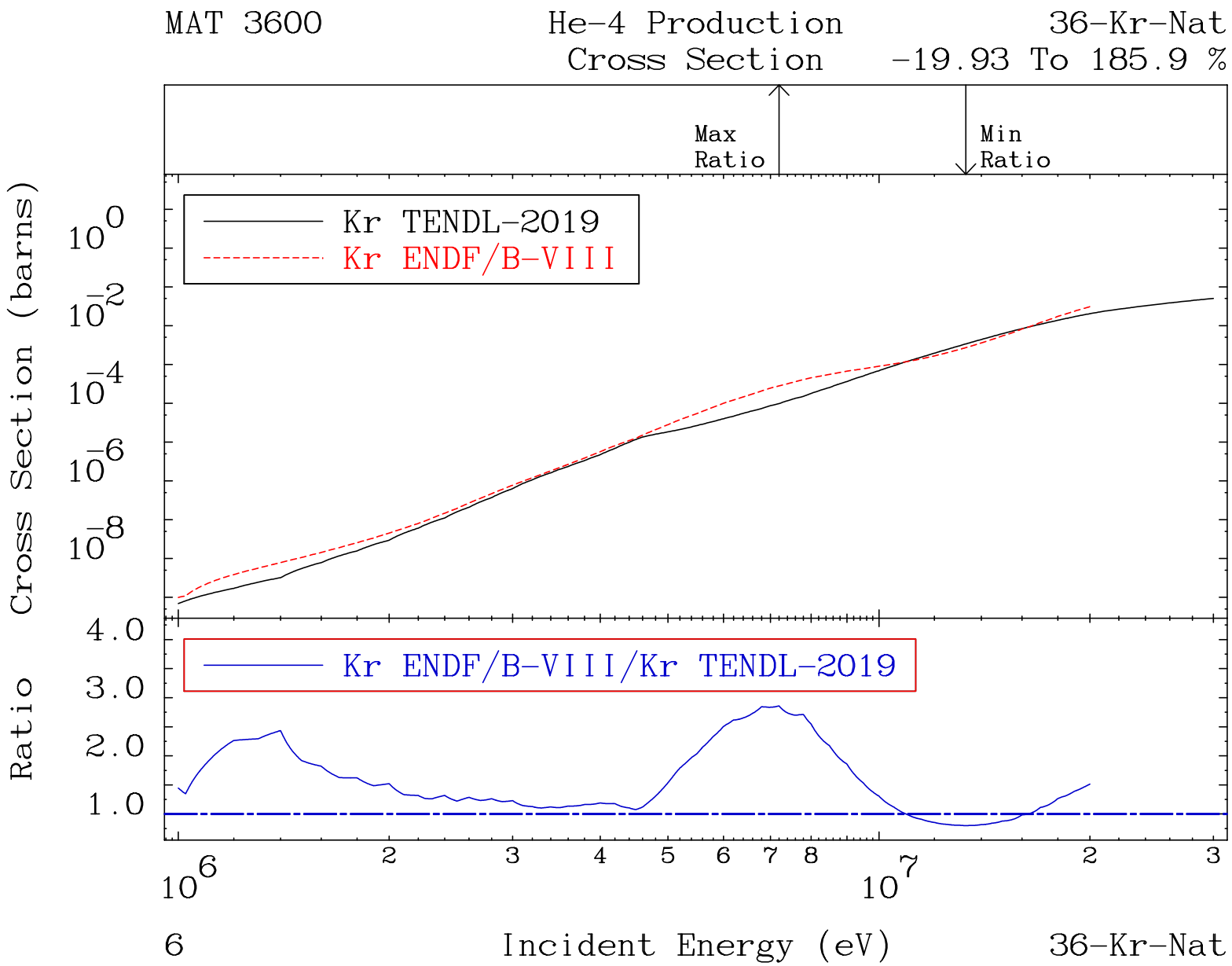

MAT 3600
Total
Cross Section
36-Kr-Nat
-99.33 To 644.2 %
Min
Ratio
Max
Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
36-Kr-Nat

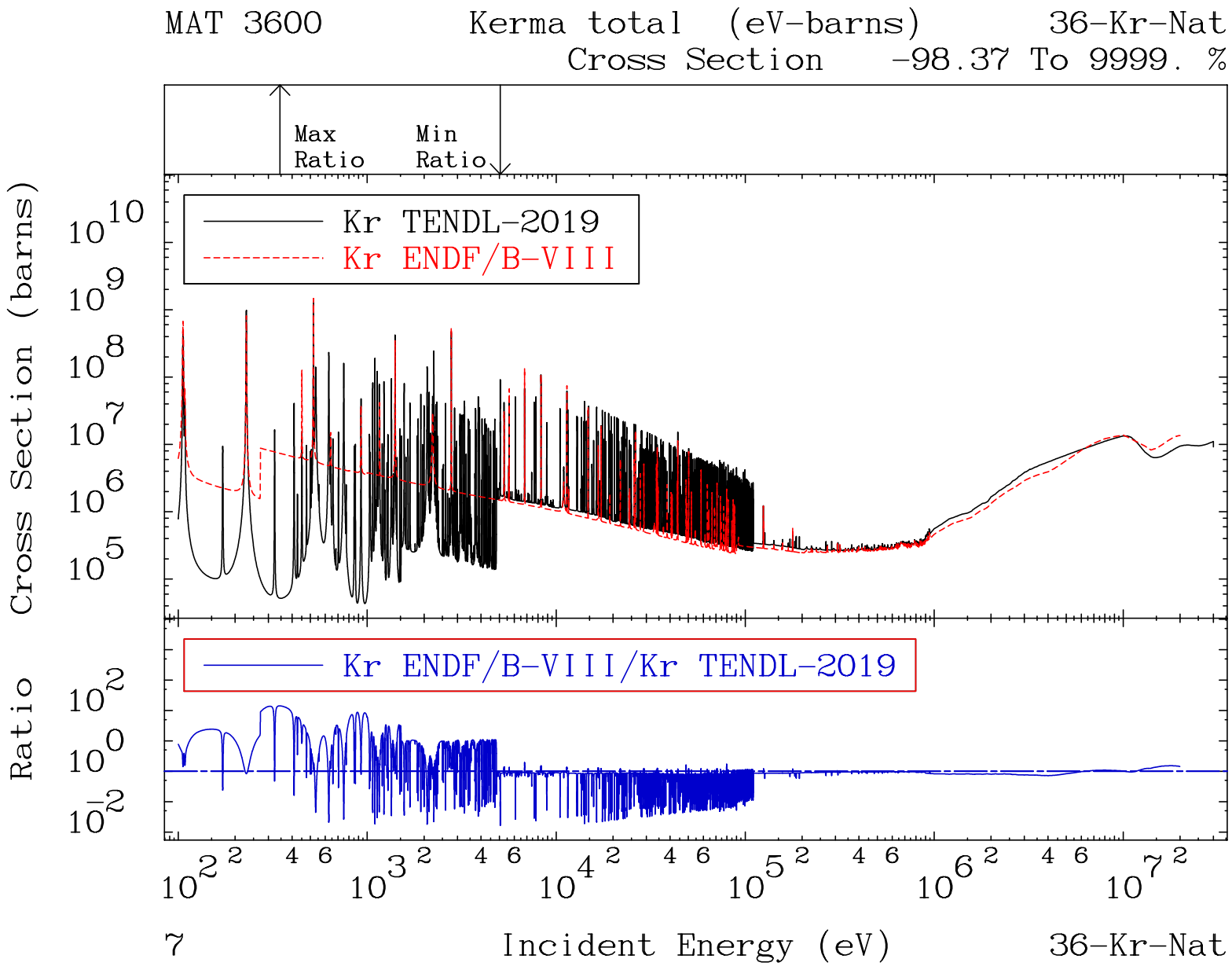

MAT 3600
Hydrogen Production
Cross Section
36-Kr-Nat
-56.86 To 70.22 %
Min
Ratio
Max
Ratio
Kr TENDL-2019 Threshold 9.7170 keV
Kr ENDF/B-VIII Threshold 800.00 eV
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
36-Kr-Nat

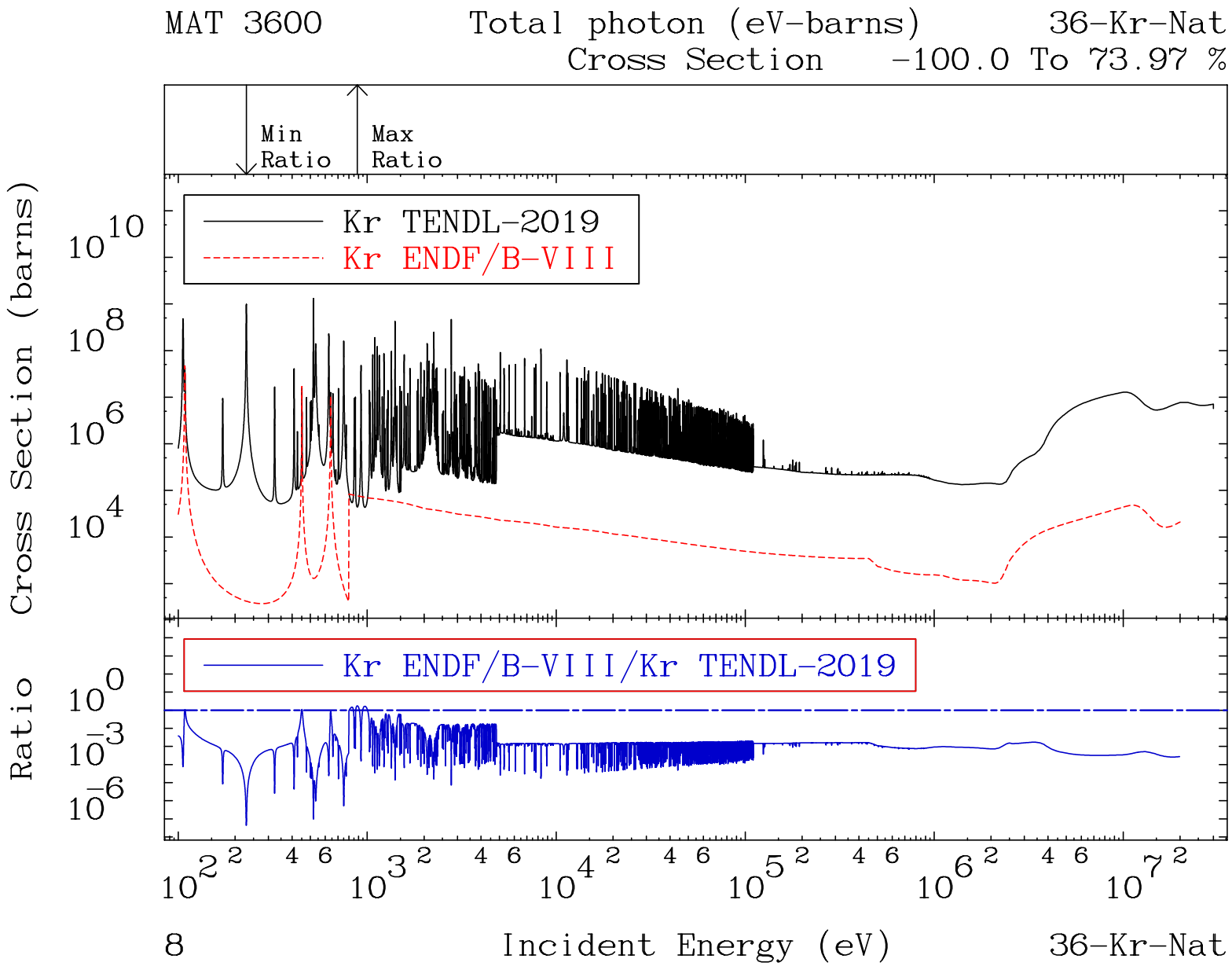

MAT 3600
Deuterium Production
Cross Section
36-Kr-Nat
-100.0 To 9999. %
Max
Ratio
Kr TENDL-2019 Threshold 6.0856 MeV
Kr ENDF/B-VIII Threshold 6.0870 MeV
Kr ENDF/B-VIII/Kr TENDL-2019
RatioCross Section (milli-barns)
40
30
20
10
0
10
0
10
15
20
25
30
3
Incident Energy (MeV)
36-Kr-Nat

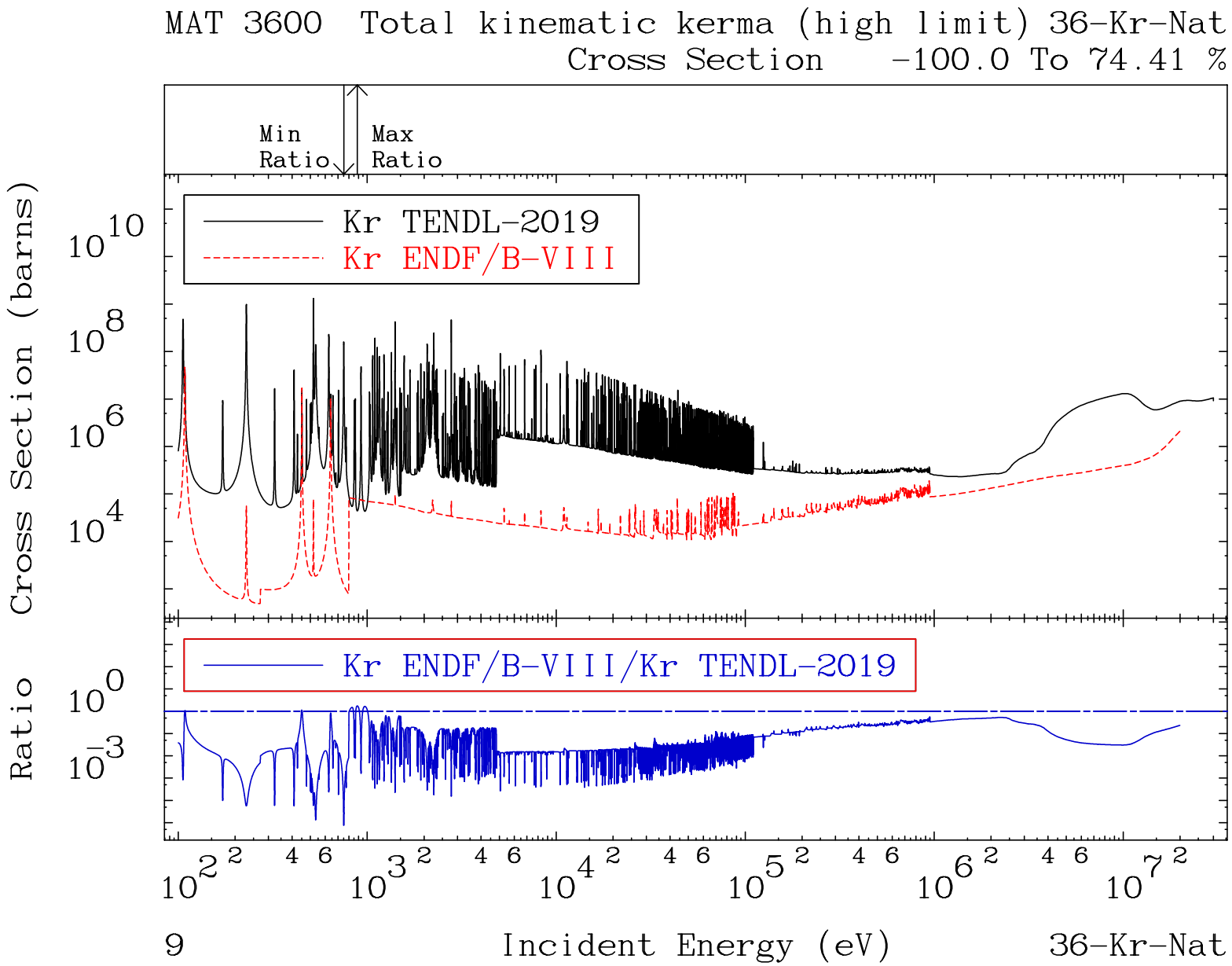

MAT 3600
Tritium Production
Cross Section
36-Kr-Nat
16.90 To 9999. %
Max Ratio
Min Ratio
Kr TENDL-2019 Threshold 9.0003 MeV
Kr ENDF/B-VIII Threshold 8.9913 MeV
Kr ENDF/B-VIII/Kr TENDL-2019
RatioCross Section (milli-barns)
0
2
4
6
8
10
10^8
10^4
10^0
10
15
20
25
30
Incident Energy (MeV)
4
36-Kr-Nat

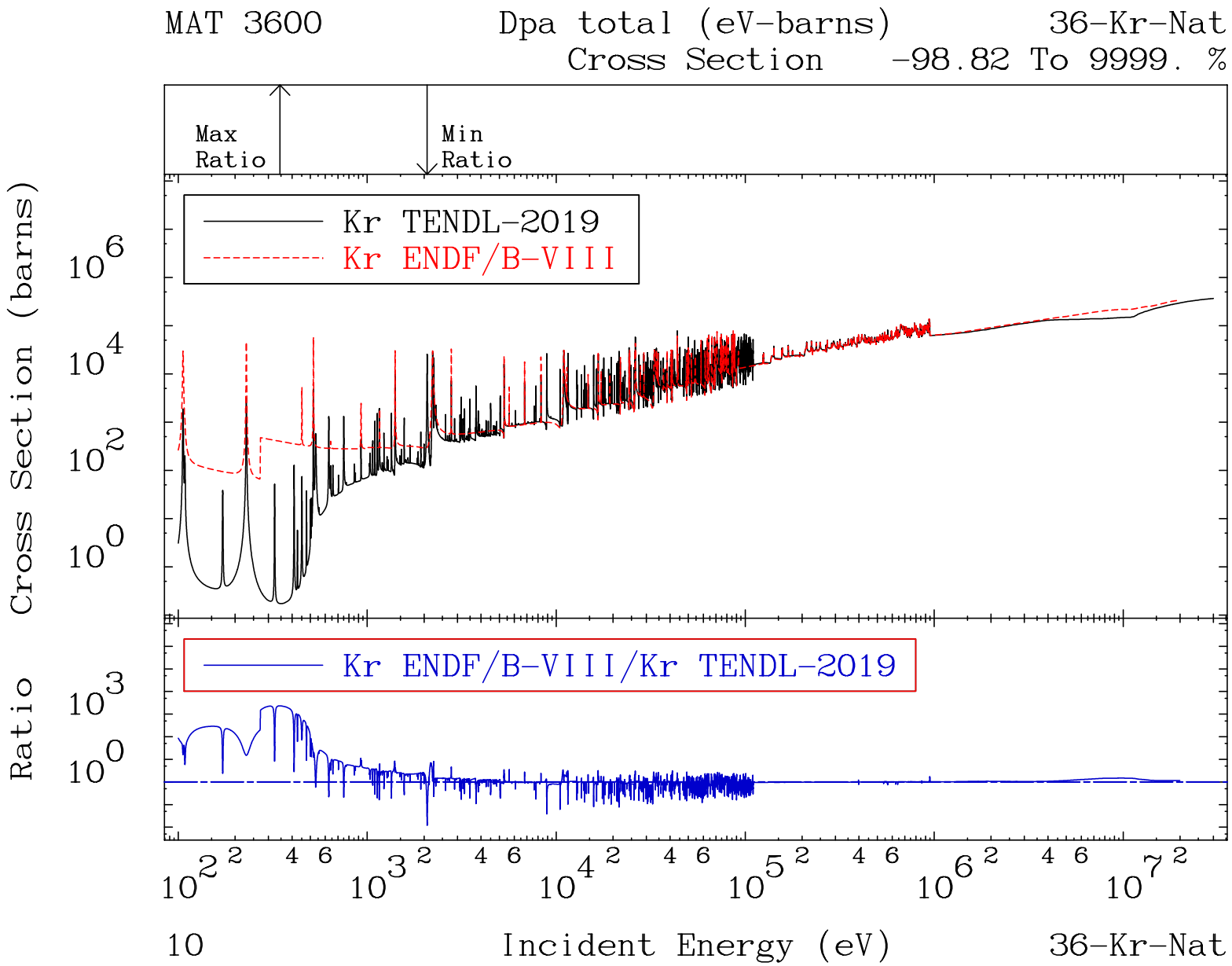

MAT 3600
He-3 Production
Cross Section
36-Kr-Nat
-100.0 To 9999. %
Min
Ratio
Max
Ratio
Kr TENDL-2019 Threshold 5.8611 MeV
Kr ENDF/B-VIII Threshold 5.8625 MeV
Kr ENDF/B-VIII/Kr TENDL-2019
RatioCross Section (milli-barns)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1.2
0.8
0.4
0.0
10
15
20
25
30
5
Incident Energy (MeV)
36-Kr-Nat

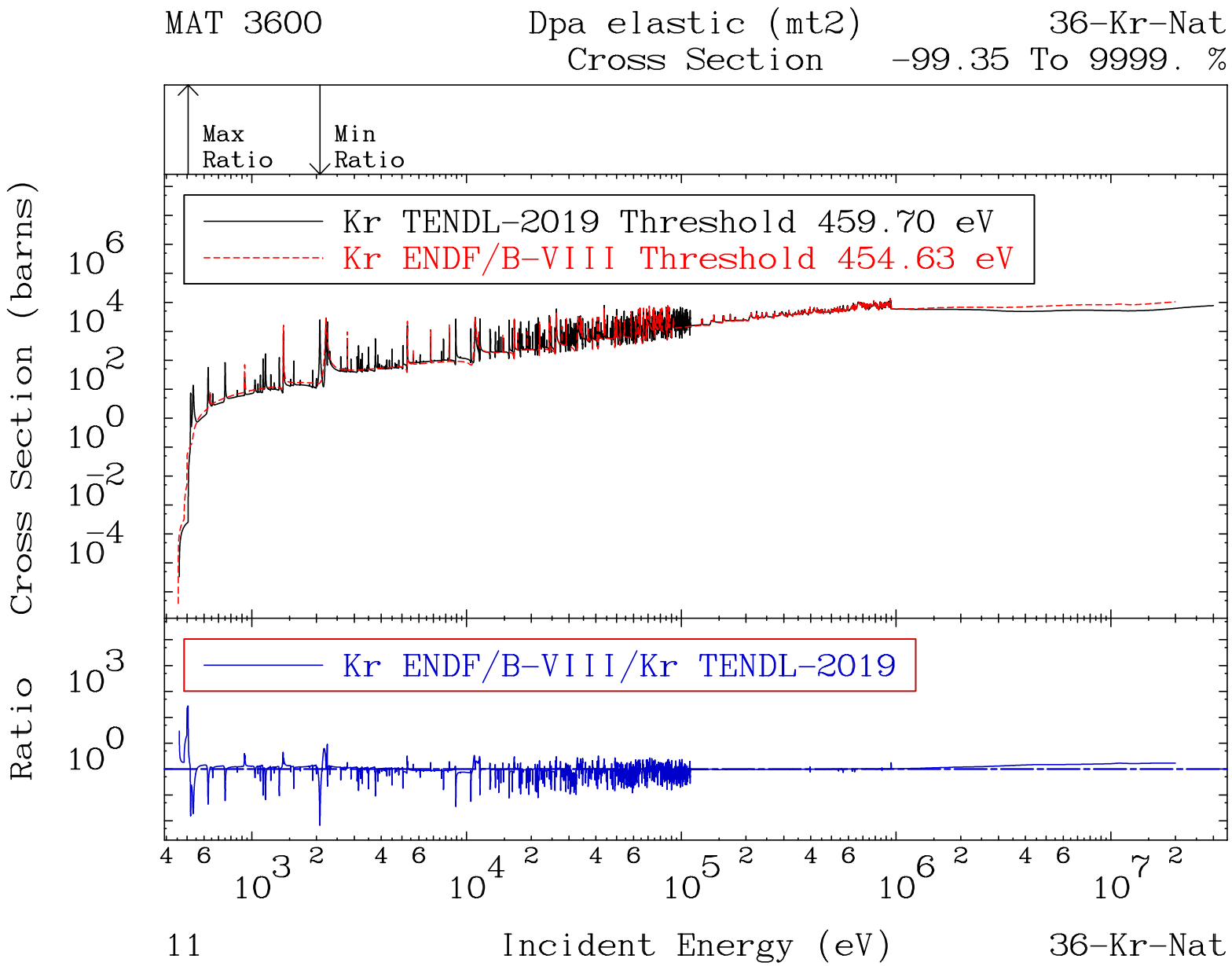

MAT 3600
He-4 Production
Cross Section
36-Kr-Nat
-19.93 To 185.9 %
Max
Ratio
Min
Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
6
36-Kr-Nat

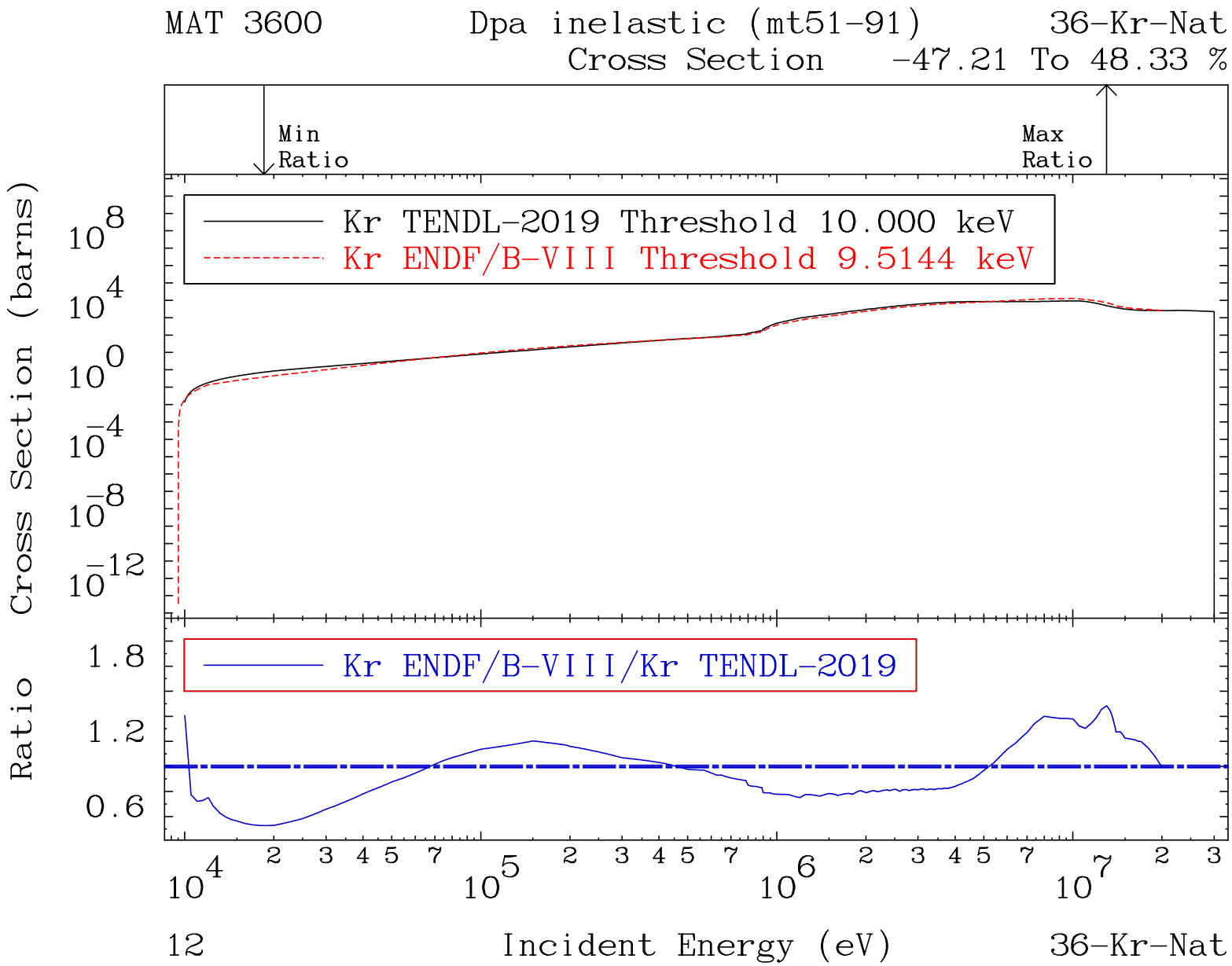

MAT 3600
Kerma total (eV-barns)
36-Kr-Nat
Cross Section -98.37 To 9999. %
Max Ratio
Min Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
7
36-Kr-Nat

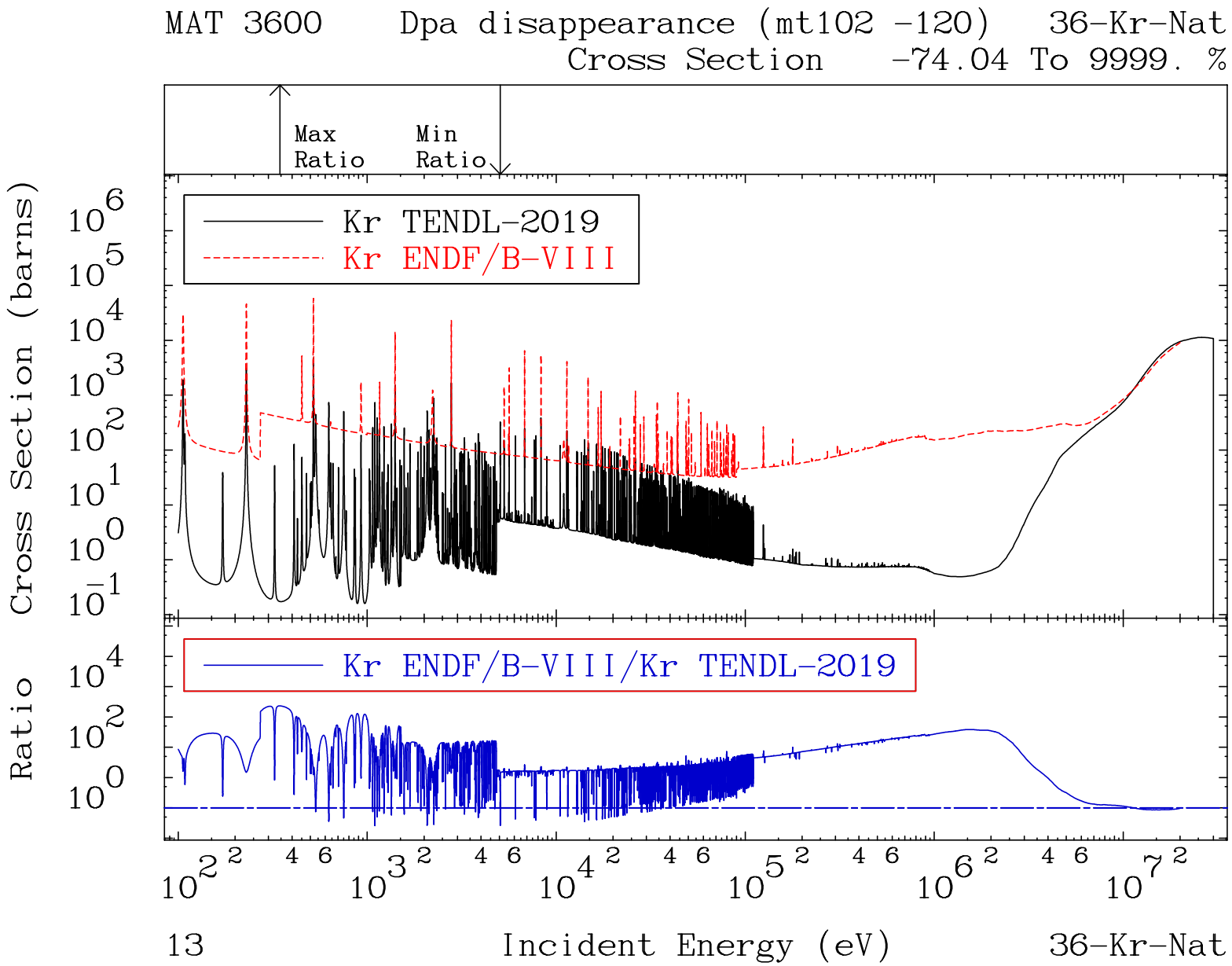

MAT 3600
Total photon (eV-barns)
Cross Section
36-Kr-Nat
-100.0 To 73.97 %
Min Ratio
Max Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
36-Kr-Nat


MAT 3600 Total kinematic kerma (high limit) 36-Kr-Nat
Cross Section -100.0 To 74.41 %
Min Ratio
Max Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Kr ENDF/B-VIII/Kr TENDL-2019
Cross Section (barns)
Ratio
Incident Energy (eV)
9
36-Kr-Nat


MAT 3600
Dpa total (eV-barns)
Cross Section
36-Kr-Nat
-98.82 To 9999. %
Max Ratio
Min Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
36-Kr-Nat


MAT 3600
Dpa elastic (mt2)
Cross Section
36-Kr-Nat
-99.35 To 9999. %
Max Ratio
Min Ratio
Kr TENDL-2019 Threshold 459.70 eV
Kr ENDF/B-VIII Threshold 454.63 eV
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
11
36-Kr-Nat


MAT 3600
Dpa inelastic (mt51-91)
Cross Section
36-Kr-Nat
-47.21 To 48.33 %
Min Ratio
Max Ratio
Kr TENDL-2019 Threshold 10.000 keV
Kr ENDF/B-VIII Threshold 9.5144 keV
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
12
36-Kr-Nat


MAT 3600 Dpa disappearance (mt102 -120) 36-Kr-Nat
Cross Section -74.04 To 9999. %
Max Ratio
Min Ratio
Kr TENDL-2019
Kr ENDF/B-VIII
Cross Section (barns)
Kr ENDF/B-VIII/Kr TENDL-2019
Ratio
Incident Energy (eV)
13
36-Kr-Nat