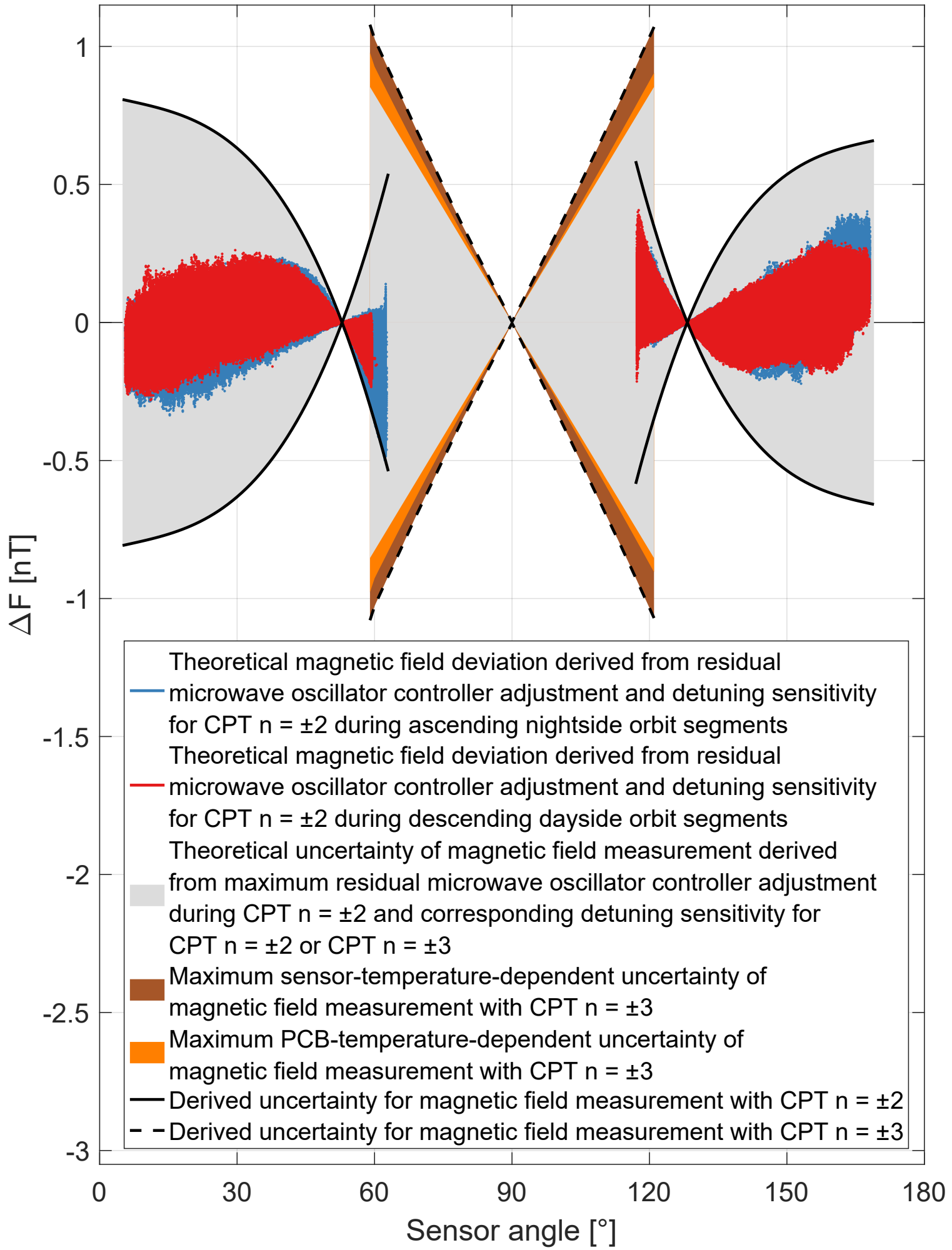
1
0.5
0
-0.5
-1
-1.5
-2
-2.5
-3
ΔF [nT]
0
30
60
90
120
150
180
Sensor angle [°]
Theoretical magnetic field deviation derived from residual microwave oscillator controller adjustment and detuning sensitivity for CPT n = ±2 during ascending nightside orbit segments
Theoretical magnetic field deviation derived from residual microwave oscillator controller adjustment and detuning sensitivity for CPT n = ±2 during descending dayside orbit segments
Theoretical uncertainty of magnetic field measurement derived from maximum residual microwave oscillator controller adjustment during CPT n = ±2 and corresponding detuning sensitivity for CPT n = ±2 or CPT n = ±3
Maximum sensor-temperature-dependent uncertainty of magnetic field measurement with CPT n = ±3
Maximum PCB-temperature-dependent uncertainty of magnetic field measurement with CPT n = ±3
Derived uncertainty for magnetic field measurement with CPT n = ±2
Derived uncertainty for magnetic field measurement with CPT n = ±3