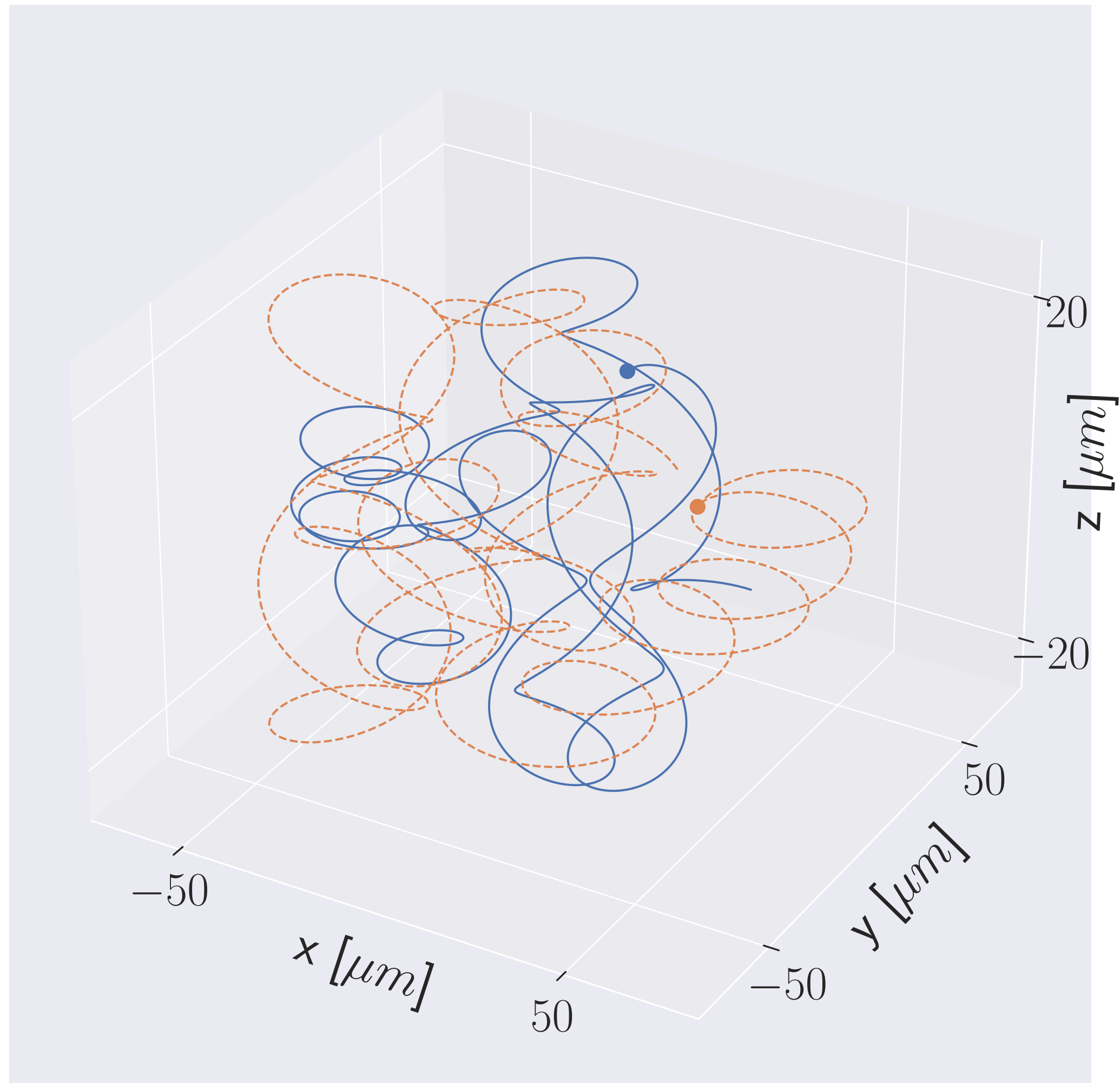
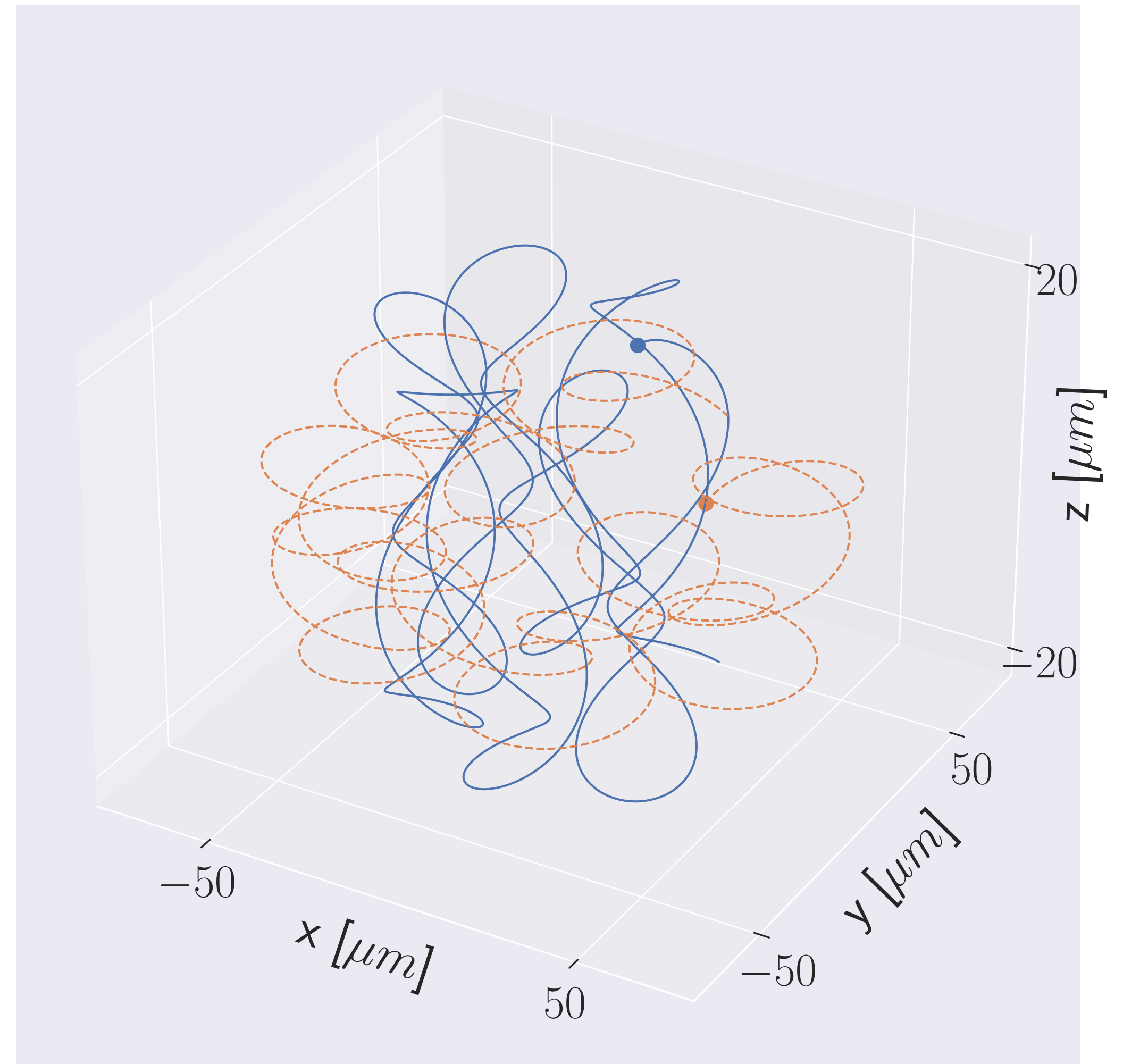


3D-trajectory of two Ca^+ ions in a Penning trap

With Coulomb interactions



Without Coulomb interactions



— Particle 1
 • Start particle 1
 - - - Particle 2
 • Start particle 2

— Particle 1
 • Start particle 1
 - - - Particle 2
 • Start particle 2