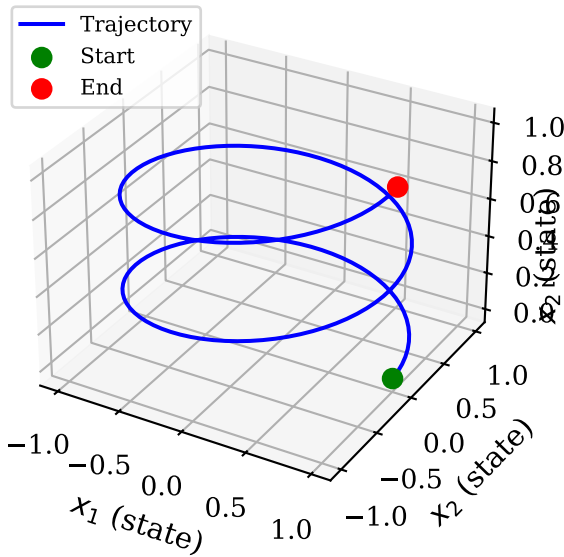
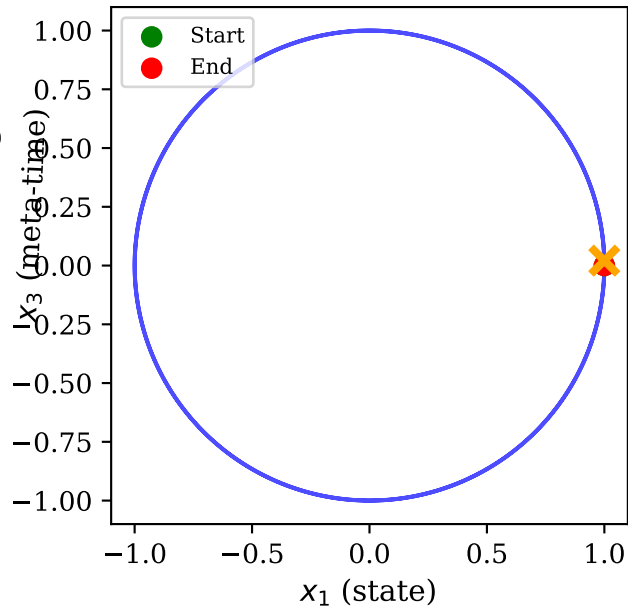


(A) $k = 3$: Collision-free



(B) $k = 2$: Collisions (orange X)



(C) Collisions vs. dimension

