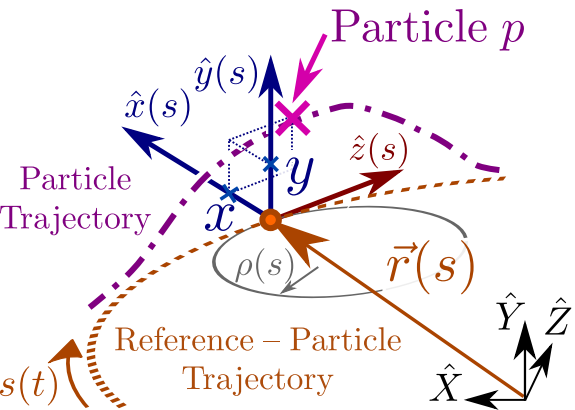
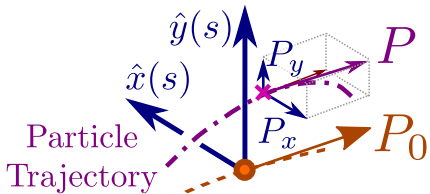


P ... momentum of p

$P \equiv (P_x, P_y, P_s)$

P_0 ... Ref. Particle