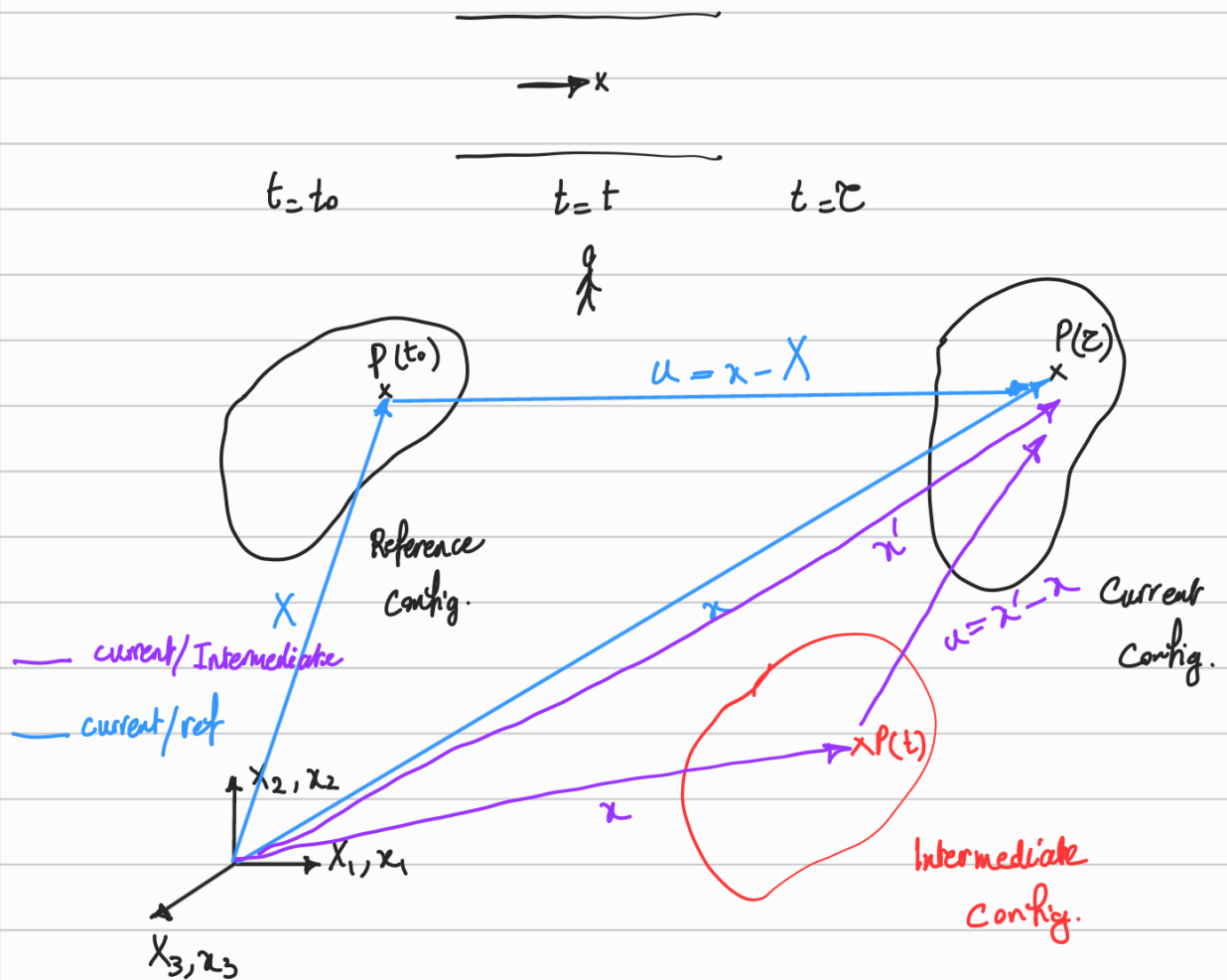


Reference, Intermediate and Current Configuration:



	Current config	Reference/Intermediate config
current/ref	$\chi_i = \chi_i(X_j, t)$ with $\chi_i = \chi_i(X_j, t_0)$	
current/intermediate (χ')	$\chi'_i = \chi'_i(\chi, t)$ with $\chi_i = \chi'_i(\chi_j, t)$	

current/ref
(χ) (X)

$$v(\chi, t) = \frac{\partial \chi}{\partial t}$$

$$F = \nabla \chi = \frac{\partial \chi}{\partial X}$$

$$C = F^T F$$

$$B = F F^T$$

current/Intermediate
(χ') (χ)

$$v(\chi', t) = \frac{\partial \chi'}{\partial t}$$

$$F_t = \nabla \chi'_t = \frac{\partial \chi'}{\partial \chi}$$

$$C_t = F_t^T F_t$$

$$B_t = F_t F_t^T$$