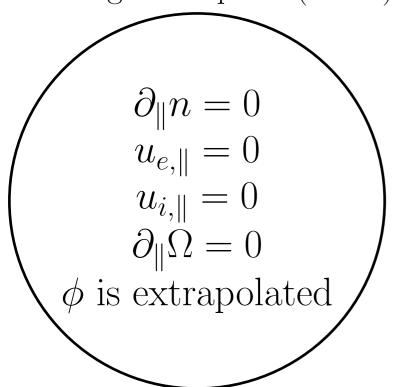
Boundary conditions for nthe outer radius ($\rho = L_{\rho}$)

Boundary conditions for nthe stagnation point (z = 0)



$$\partial_{\rho} n = 0$$

$$\partial_{\rho} u_{e,\parallel} = 0$$

$$\partial_{\rho} u_{i,\parallel} = 0$$

$$\partial_{\rho} \Omega = 0$$

$$\phi = 0$$

Boundary conditions for nthe sheath entrance $(z = L_z)$

