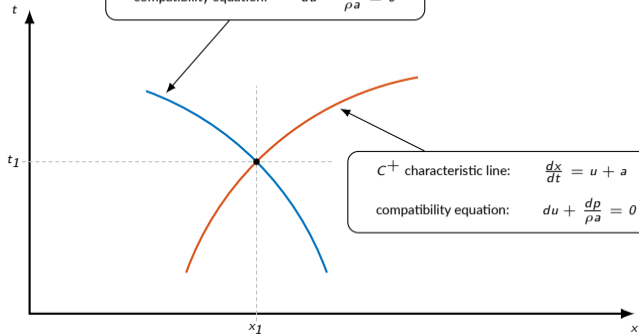


$C^-$  characteristic line:  $\frac{dx}{dt} = u - a$

compatibility equation:  $du - \frac{dp}{\rho a} = 0$



$C^+$  characteristic line:  $\frac{dx}{dt} = u + a$

compatibility equation:  $du + \frac{dp}{\rho a} = 0$