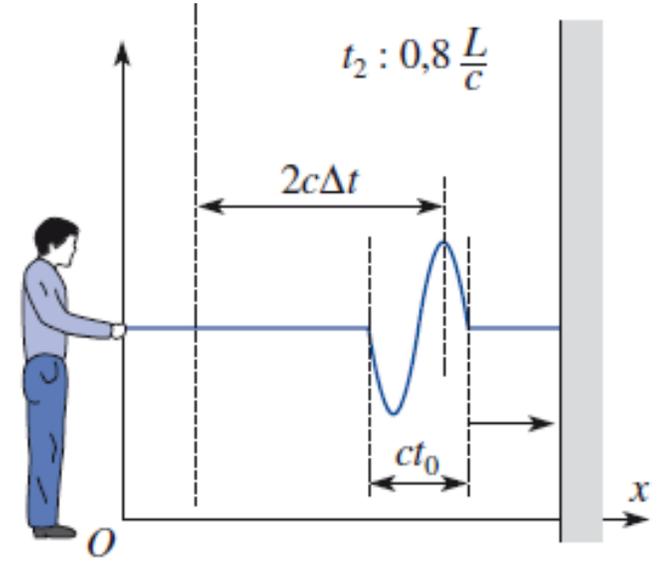
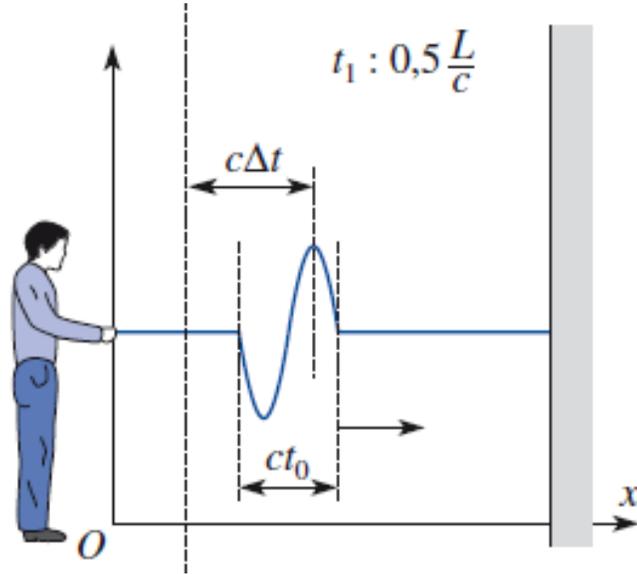
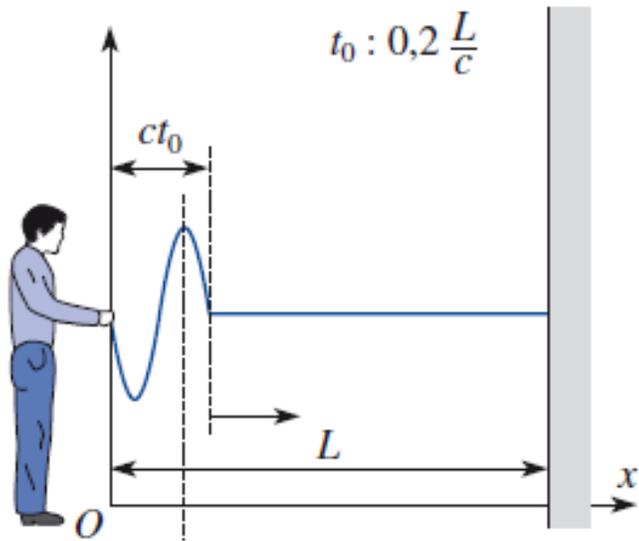


# L.P. 24 – Ondes progressives. Ondes stationnaires

Marchetti Benjamin

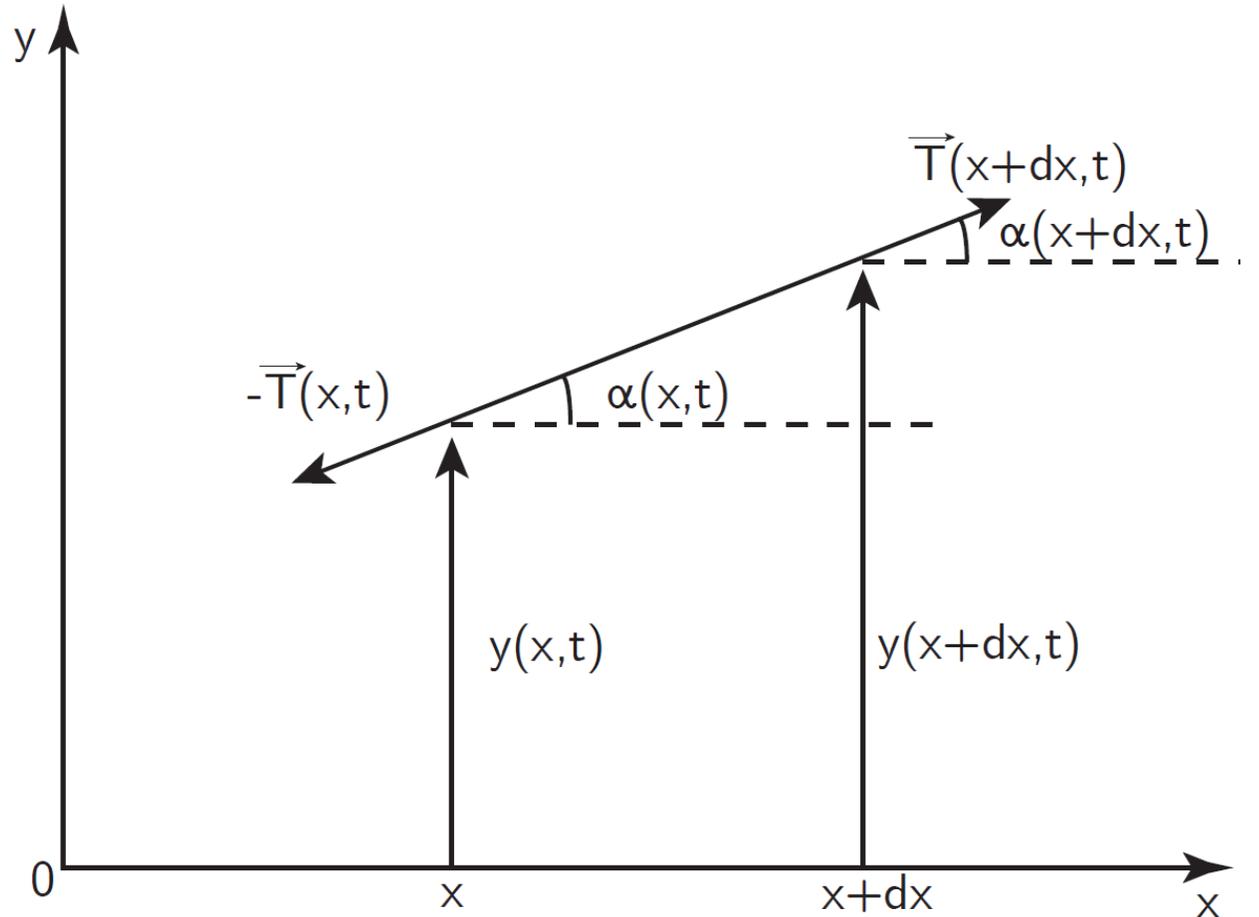
# Introduction



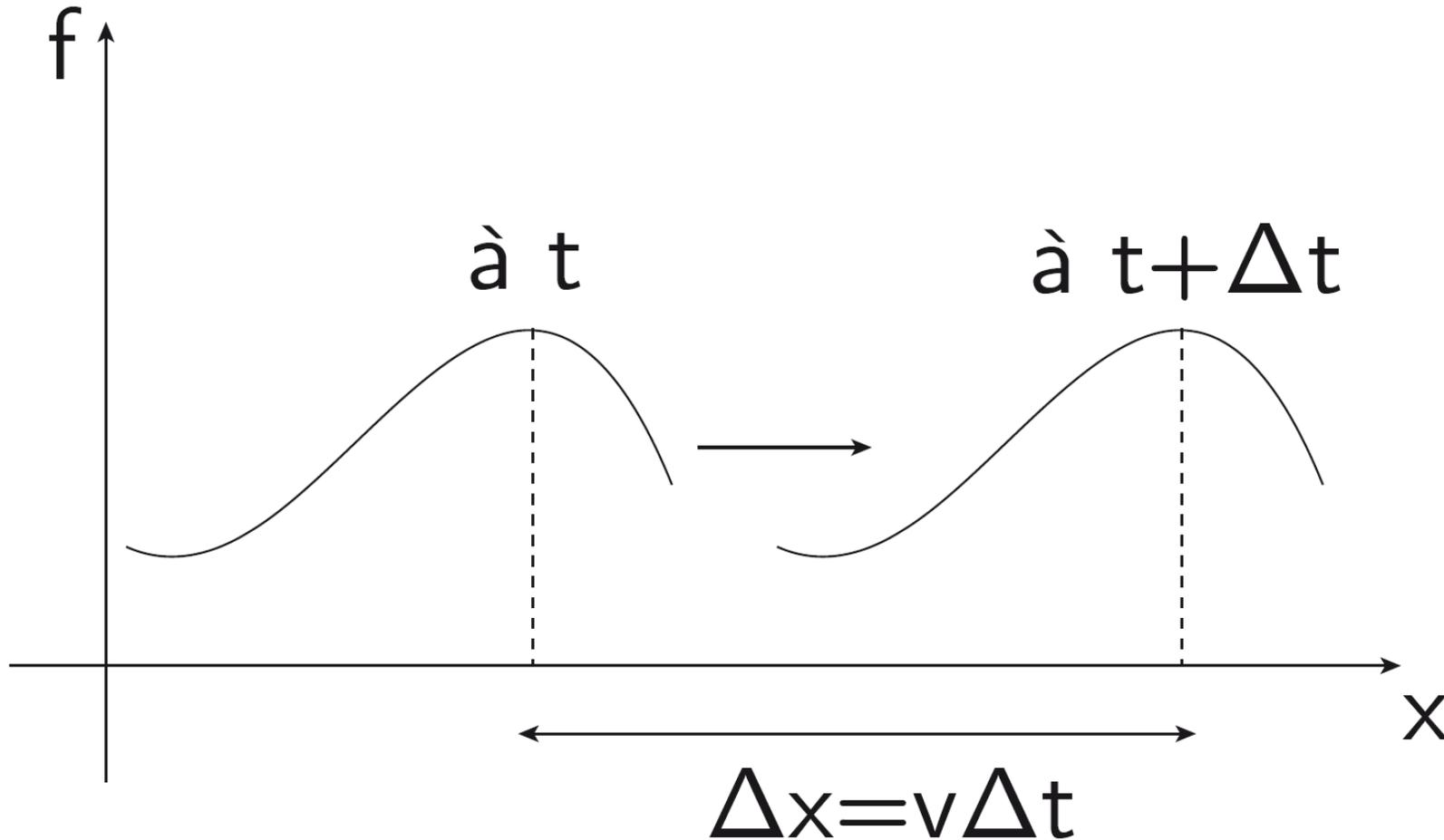
# 1. La corde vibrante : équation de d'Alembert

Hypothèses:

- Corde sans raideur, inextensible
- Masse linéique constante  $\mu$  (kg/m)
- On étudie les petits mouvements :  
 $|y(x,t)| \ll L$  et  $|\alpha(x,t)| \ll 1$



## 2. Solutions de l'équation de d'Alembert unidimensionnelle



### 3. Solution stationnaire de l'équation de d'Alembert

