

## Coordinate System of the Classical Mechanics for a Point Particle

$\chi : \mathbb{R} \rightarrow \mathbb{R}^3$  ..... a function

$t \xrightarrow{\chi} \chi(t) =$

$$(\chi^1(t), \chi^2(t), \chi^3(t))$$

$M_C$   
↓

$M_C(\chi)$  ..... a history

$\forall t;$

[ The position of the particle is  $D(\chi(t))$   
at the time clock( $t$ ). ]