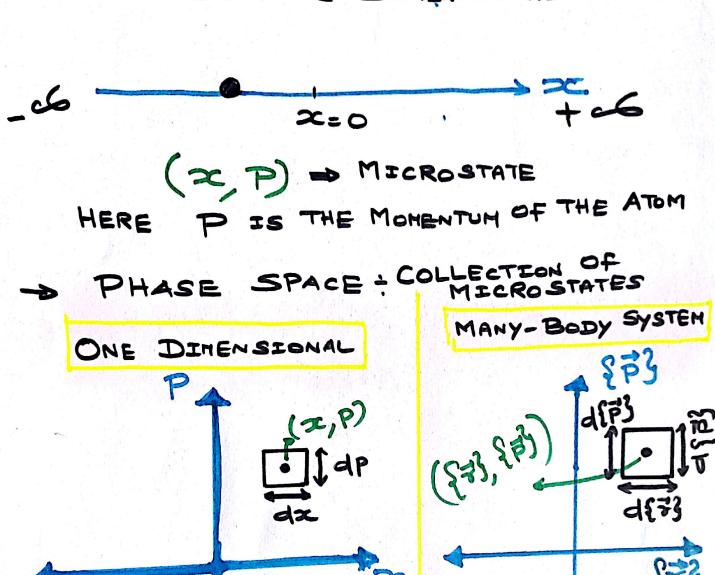
VIEW -MICROS COPIC

EXAMPLE : ONE DIMENSIONAL SYSTEM

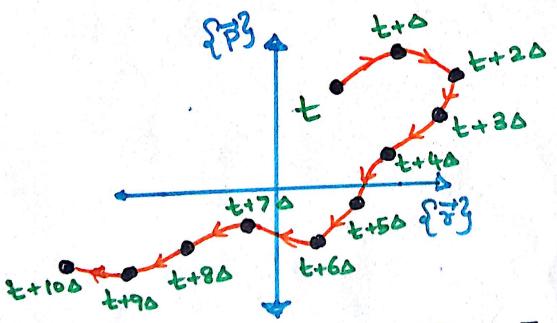


dxdp=h

- HAHILTONIAN :

- { = } AND { = } CHANGE WITH TIME.

SYSTEM CHANGES ITS MICROSTATE WITH TIME (DYNAMICS)



WHAT GOVERNS THIS TIME EVOLUTION?

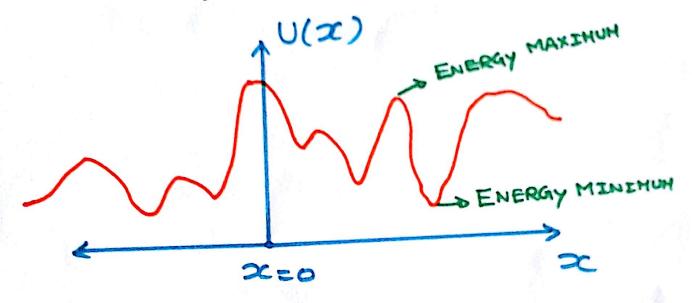
COMPARE TRAJECTORIES OF SOLEDS LEQUED, GAS

- HAMILTON'S EQUATIONS:

FOR ONE-DIHENSIONAL

POTENTIAL ENERGY U({73)

- · CONSIDER ONE-DIMENSIONAL SYSTEM
 - POTENTIAL ENERGY U(2)
 - POTENTIAL ENERGY SURFACE



3N41 DIMENSING

$$\begin{array}{c}
 & \downarrow \\
 & \downarrow \\$$

PAIR-WISE INTERACTION

- · CONSIDER A PAIR OF ATOMS I AND J
 - DISTANCE BETWEEN AND
 - THEIR INTERACTION ENERGY AT B.

FOR A SYSTEM OF N ATOMS THERE ARE N(N-1) PAIRS OF

SUM OF INTERACTIONS OF ALL PAIRS

· IL(7) = NUMBER OF PAIRS OF ATOMS WITH AN INTERATORIC

SEPARATION OF 8 (INTERACTING SYSTEM)

· DEAL NUMBER OF PAIRS OF ATOM

IDEAL WITH A SEPARATION OF T IN AN IDEAL GAS

(NON-INTERACTING SYSTEM)

$$\cdot \left\{ (x) = \frac{2\Gamma^{2DEUL(2)}}{2\Gamma(2)} : \frac{3(x)}{3(x)} > 1 \right\}$$