Course of observation of amicroscopie variables.

Last mode in last days note is a like a volume expansion ( Go )

Tuhinhotation -> Coarse graining = 06 reveation with a least Court greater than mallerino -

des afarystem. This is how the last mode leads to a macroscopic quantity like volume (length)

A Theremo dynamic system Takea part of the universe theet you want tostady.

System

+ Boundary (ased to dassify system)

A Isolated system - No exchange of matter or energy.

(X) Inthe context of thermo dynamics we donot consider man and energy equivalent.

1 Open system - exchange of matter and energy.

Aclosed system - Allows enougy exchange, but not matter.

Exchange of energy -
Heating the Work
Heating the system
system
Relation of these two: 1st Law
A Adiabaticwall - Noexchange of heat energy.
Another way of saying thermally isolated?
△ D'athernic wall -> Allow energy trousfer,
A State of a system; Macroncopic variables choris
His. Fearilibrium values
Maysony desoubed at egeilibrum.
Regardlers of wheet happens in a hot changing with
provers, thermodynamic variables are still related
by Hornolynamic relations.
A Mechanical Equitiblian -
Dictated by NLM,
Dictated by NLM,  F=0, J=0
Achemical Equilibrium -
No opon tanzour change in chemical composition.
A Thomas Equilibrium ->
Allow a rystem to evolve. Nochange in peroperties.
Nochange in peroperties.
00 A 10 A 10 A 10 C
equilibrium.

