Lecture 1 - Intro to Stat Mech

(1) Maus state dined by

thomodynamic variables. p.T.

U.V.

posit's, velocities, spin, for each portrul laton /molecule)

Lo Arunille minostate associated macrostate,

(3) Sigle particle state (SPS): one particle state, ignoring all others

Distinguishability: Can we put a label on each particle?

Billiards: yes Gas: no e- if we distinguish when simularing we are not reflecting reality.

3 type of States

If gas particles are indistinguistable.

1 mirco state: (\(\vartering{\vartering}_1, \vartering{\va

Postubetes of Statistical Hechanics

1. Microstates esist

2. Energy is conserved

3. Any closed system is equilistican is equally likely to be in any of its accorde microstates a we assure this, but it's chill a by poolers

let's us def the STATISTICAL WEIGHT

Statistical Weight:



