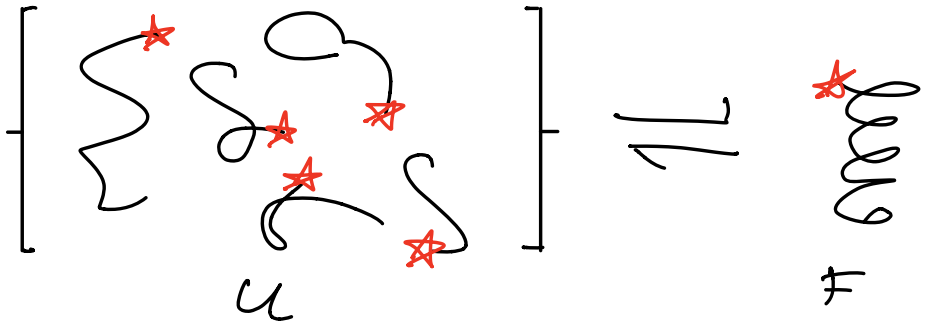
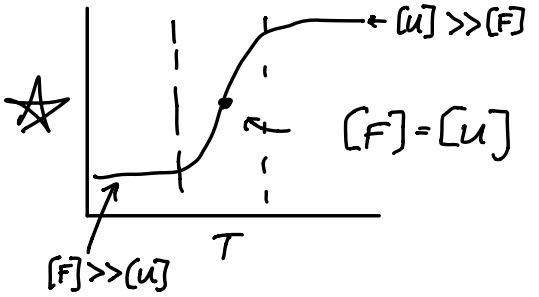
10/2/2019

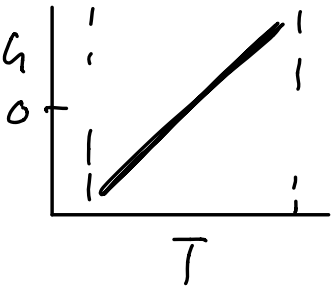


SPECTROSCOPY → WATCH IT HAPPEN



$K = \frac{[F]}{[U]}$

$\Delta G = -RT\ln(K)$



$G = H - TS$ $\left(\frac{\partial H}{\partial T}\right)_V = C_p$ $S = \frac{q_{rev}}{T}$

HOW CAN WE TRANSLATE THIS KIND OF STUFF INTO INSIGHTS ABOUT MECHANISM?

BACK A STEP: WHAT DOES THIS STUFF EVEN MEAN?

NEXT 3 CLASSES:

- DEVELOP COMMON LANGUAGE AND FRAMEWORK FOR STUDYING REACTIONS
- START MICROSCOPIC (WHAT ARE MOLECULES DOING) AND THEN GO MACROSCOPIC (WHAT CAN WE OBSERVE).

KEY THEME: WE ALWAYS DEAL WITH POPULATIONS OF MOLECULES. WE NEED A STATISTICAL VIEW.