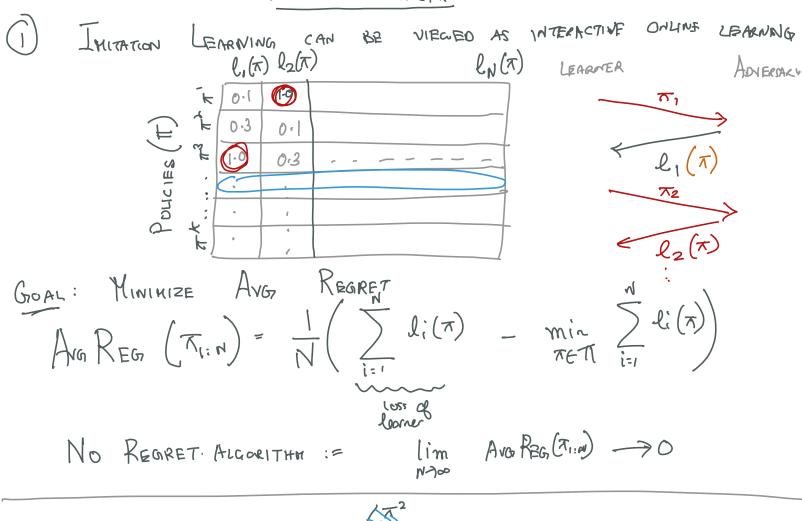
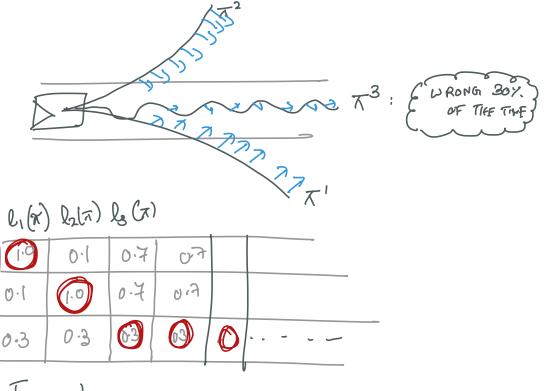
ANALUZING DAGOFR





2) FOLLOW THE LEADER

Ti = argmin

TC-TI

T=0

X = 0

If li(n) is strongly convex or then FTL is no-regret (3) DAGGER IS FTL. Tite = TRAIN (P) = argnin $\sum_{i=0}^{L} l_i(\pi)$ DAGGER RETURNS AFLEAST ONE POLICY Ti INDUCED PISTRIBUTION THAT POES WELL ON IT'S OWN T_i s.t $\left[\sum_{t=0}^{T-1} \int_{S_L \sim d_{t}}^{T} l\left(S_L, \chi_i\right)\right] \leq \underbrace{C(\dots, T)}$ ASSUMPTION: [RICH POLICY (LASS)] FOR ANY LOSS FUNCTION P(A), JAET IS GOOD min P(T) 3 0 (ETH) PROOF: POLICY THAT PACCER RETURNS. AT THE BEST min l; (xi) $\frac{1}{N} \geq \ell_i (\pi_i)$ $\frac{1}{N}\left(\sum_{i=1}^{N} l_{i}(\pi) - \min_{\pi \in \pi_{i}} \sum_{i=1}^{N} l_{i}(\pi)\right) + \min_{\pi \in \pi_{i}} \frac{1}{N} \sum_{i=1}^{N} l_{i}(\pi)$ YNU BECU (1: N)

As NAO, ARECAO

log N

By OUR ASSURPTION

<0(ett)