LECTURE 12.

Dictimary of banic 4d-moves.

\$ framed immersions.

normal bundle of an immension trivial. I many affeos to ExR2. called framing. if DE + p tren get farmy on DE to DE x DE x DE > V(DE). of E=Wh. diru W tun W has Whitney training. Difference of there two fearings is in Z=TinSO(2).

Whitney moves

almy a framed embedded Wh. diru. It vot framed: If framed immersed:

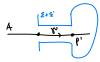


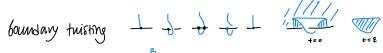
gives his to four new self-intersections

\$ finger moves

Ch 15:









symmetric surgery (contraction)



NOTE: If 2=2' army symp = -symp! In order to have the result orientable

NOTE: We often tube into a periodled copy of 2' morrord (use a nonvow. normal v.f. to purm 2'of itself)

if Σ' framed, then get no inters with it.

if E' enclosed, then get no new d.p.

if 2' immand, then get inters. When it land among parallel purh-offs):