

















- can iphone - and -- No confradiction. Wintinger presentation of TI(E(L)).  $G = \langle x_{1}, ..., x_{m} | \pi_{1}, ..., \pi_{m} \rangle$ G = free group in the latters 22,..., 2m sudlest normal subpeoup contains n, ..., nm means Ry word in the letters &, ..., In the Thu: 1) if  $D = D_1 \sqcup D_2$  (split projection) Here  $T_{1}(E(D)) = T_{1}(E(D_{1})) * T_{1}(E(D_{2}))$ 2) if D connected and without circular overances then  $\pi_1(E(D)) = \langle \alpha_1, ..., \alpha_m | \pi_1, ..., \pi_n \rangle$ where m = # overarcs = # cromiups Ij oriented overacs (writ global entitiony orientation) Ti relation associated to i-th nossing









