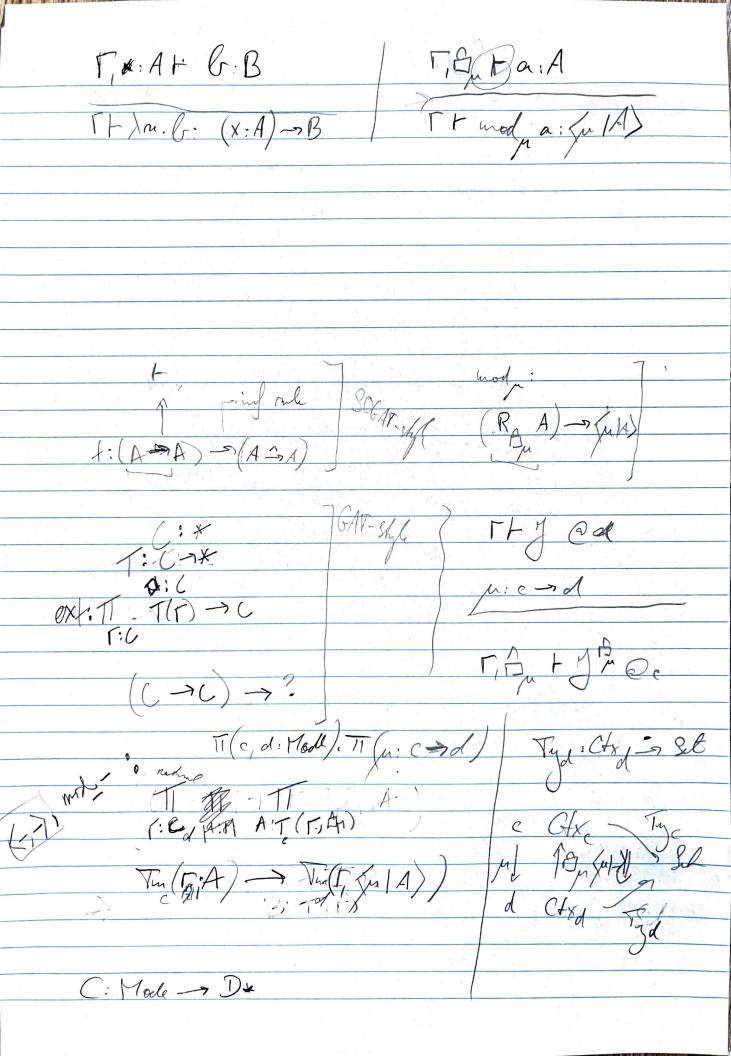
KCtx: D, Figur I from Atkey ( : KCtx ) \_\_: KCtx 5 (Duc | Kid) -> KCtx, ((-1) TE SI HOW KCEX (O, S) & T G: Hom (KCH) = Hom KCHX (O, O) X Try (O, K) (0,01: KCEx) mt (K: Kid) -(Q:UCtx) = (u: Kil) - 1 (u: Kil \_ > \_: Kind > Kind > Kind (We have & don hits above) Dlum: Q (Q: KCtx) mut (K, K, Kil) - WIm (Q, K, K) \$ KT- (0; K, -K2) " JKT (Q; K, -> K2) -> Win (0, Kg) -> Win (0; K2) cmβ. ∀Θ, κ, ικ, . (B: κτ (Θ, κ, ικ, )) -> (A: LV (0; K)) - app (la (B)), A) = B[(id, A)] appy: VQ, K1, K, (F: KTm (Q; K, - K, 1) -> F= lom (app (F[#], §)) \_\_\_\_: (0:KCtx) mit (A, B: Ktm (Q, \*)) -> KTh (Q, \*) V: (Q: KC+x) mot (K: K:L) -> NTm (Q, K; \*) -> KTm (Q; \*)

Figure 2 Som Atkey

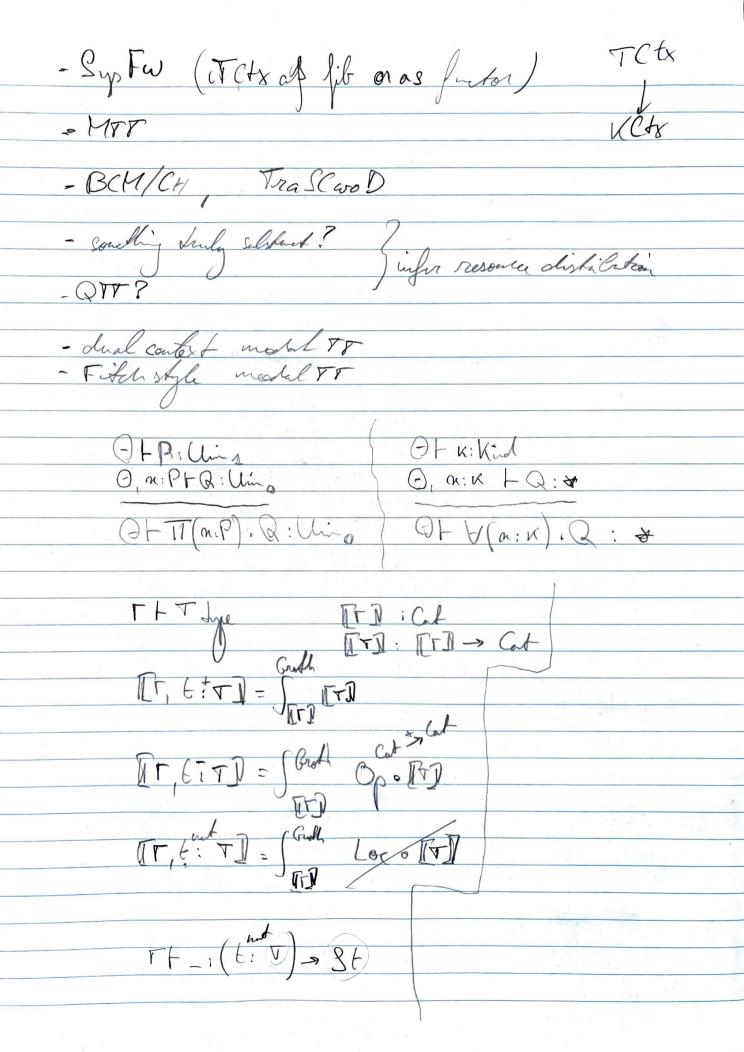
TCEx: KCEx -> D ♦: (Θ: KC+x) = + TC+x (Θ)) Ty: UCtx - O Dfield suches Ty: UCEx - 0 Ty (0)= KT\_ (0, +) Im: (O: KCh) X (T: TCh(Q)) = (T: Tr(Q)) = (T:Tr(Q)) Tm: (O: KCbx) \* (T: TCbx(QI) - (T: Ty(Q)) - 0 Carries to Grath contr.

Com: (0: KC+x) = (r: TC+x(0)) = (AB: Ty(0)) -> Two(r, A; B) - Two (r; A -B) -> To (F; A >B) -> Var (F; A) -> Var (F; B) Lam: (0: KCtx) = (K: Kil) -> (F: TC+x(0)) + Frm (Mm); A) -> Tm (F, VK.A) App: (6:KCLx) = 1 "- To (TV & A) - ( Win (O; K) -Tmg(Γ; A[(ch, β)]) (TIMOIK (T[i] A)) -> (B. KT\_(G, W) -> App (Lan (a), B) = a [(ido, B)] to Tmo(F; A[(Jo,B)]) " - ( f. Two ( Tivk. A) -> f= Lan (App (for; 1, 5%))



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y is precent (X, x) is precent if xis precent and a is curt O: KCtx H (): TCtx(0) 4: L2 Stab TI: F.T - T has only contamous