

 $(\lambda y p. \chi y w (px))$ [x:= $\lambda a. y w$] FU(NN)- FV(N) UFV(N) (2xp....) (2x...) $FV(\lambda_{x}.M) = FV(M) \setminus \{x\}$ $FV(x) = \{x\}$ λ_{x} , λ_{y} $(\gamma) = \lambda_{y}$, λ_{y} $(\lambda_{x}, \lambda_{y}, \lambda_{y})$

A++ -5 1 2 Turing machine Tepm Tun 1 > Tepm <> Tepm 2 Type <> Tun 1 - ky 5 dr Tun <> Ten AZP $CoC = \lambda 2 Pcv$ CiC = CoqVect (n)

Curny- Howard correspondance isomorphism E higher-onden logic? ¿ § intuitionistic lopic 3 add Propositors 12/... add recogning $\lambda \Rightarrow \{\lambda \Rightarrow 3$ E Cartesean-closed categories 3 -> E Topoi 3 HoTM Thomas Agda ___

CH converpondanco! int foo (a: int) { type ~ theorems $in t \rightarrow in d$ tenm ~ proofs 307 IP 7 H 2 ° B r + m: 2 ? + M: \$3

Konnercues 12 BU(+d.L) = { L 3 OS à lecence numo bet representes d: * (d & V) kind * > * Bie chasopuse nemobra representas goenna Fait onno var 6 $\Gamma = \langle \lambda: + \rangle \times \lambda \rightarrow \lambda >$ racvurus yuspaporenusea! d: *, B: *, f: d > B + f: L > B L: *, f: 2, B! *, x:B - ...

Typolono Chepenere + 6 d 2 (u-en Kappu) P, d: + H: 5 dx.g. PH: XX.6 $f, 2:x, p:x \vdash Afx. fx: (2 > p) \rightarrow p$ $\Gamma, \lambda: x \vdash \lambda f_x \cdot f_x : \mathcal{L} \Rightarrow \beta \Rightarrow \beta$ ↑ Hartx: HaB. (d >B) >B J: 2-> B -(x -> x) -> x -> x L: + > he copies much (de D) L: X -> X -> CSpenoment

Tystems ygamenus 462 (a-us Kappu)
TH M: Hd. 5 NHZ: 7 PH: OS d:=ZJ 13:4, 7:4 H Axy. x: Hd. L>13>2 B:+, f:+ $\rightarrow Xy.X:+ \rightarrow B \rightarrow X$ $(B\rightarrow Y\rightarrow B)$

Typo been gus voune e nue 6 Konnerum Cruna conce gouje necuciales P + = gon- I voumeres eau on nocopoen no meg-u upo beenous: d: * ← P 1. novacce use 2. расичерения 7 H LE Lom (r) r, d: * + P - 6: * 3. расширения x¢ dom (r) 1, x: 5 +

1 horaciona $d: x \in \Gamma$ 1 horaciona $T: x \in \Gamma$ 2 horaciona $T: x \in \Gamma$ 1 horaciona $T: x \in \Gamma$ 2 horaciona $T: x \in \Gamma$ 3 horaciona $T: x \in \Gamma$ 1 horaciona $T: x \in \Gamma$ 1 horaciona $T: x \in \Gamma$ 2 horaciona $T: x \in \Gamma$ 3 horaciona $T: x \in \Gamma$

3. Chegenese # 1, 2: x 1 0: x

1 + 42.6: x

Centered Trends d'ans

12 a-us lapper Thabeur Tunezageer (init) X: 6 6 1 Ptx:0 PH: 5-> Z PH N.6 (elim =) PHN: Z (intro >) 1, x: 6 + M: E P+ λx. 4: 6-> 2 Celim V) PH M: V d. 5 PH Z'X T+ M: 5[d:=2] 1, 2: * H M: 0 (intro t) n+ M: 42.6

 $P = f: \forall \lambda. \lambda \Rightarrow \lambda, \beta: +$ ff of ff P+f: 42.2-22 P - 13:4

P+f: 13-13 (chi f: \d. d > d, Bi & L ff: B > B

