hybrid mice operator mice$(x) := (x \cup \{x\})$ *operator*
?
$x\rho_x : x \to xx$ **rank closure** $\hat{x} := (\{x, \rho_x\})x$ **cone** $C_x := \{\hat{y} \in H_\kappa \mid x \in_1 (\hat{y})\}x$
$\kappa D^1 b \in H_\kappa$ **operator on** H_κ **over** b **with support** $D\colon H_\kappa H_\kappa$
$D \cap C_b \subset C_b$ **cone over** bb **base of** C_b
$V = L\hat{x} = xx\emptyset C_a = J_\kappa = J_\kappa$
$xV = L(\hat{x})_x \hat{x}\emptyset J_\kappa(\hat{x}) = H_\kappa^{L(\hat{x})}$
$:= (-)^\sharp x^\sharp(x)\emptyset(\emptyset) = 0^{\sharp\omega}(\emptyset) = \bigcup_{n<\omega}^n(\emptyset)\sharp$
^{2}**-mouse on** $\hat{x}\hat{x}l()$ **length** **initial segments** $^\alpha(\hat{x})\alpha < l()$
amenable acceptable sound ¶ $<\omega$-*condensing* $\pi\colon \to$ ¶¶¶[3]
$\kappa H_\kappa b \in H_\kappa$**-lower part model on** $b(b) := \{|$ *is a sound*$-$*mouse projecting to*$\} * \circ$
$\kappa H_\kappa b \in H_{\kappa \hat{b}}(b)(b) =^{H_\nu} (\hat{b} \cup o())\hat{b}^{<\omega}{}_{\hat{b}}\hat{b}\hat{b}$
$, (b)(b)(b)$
$H_\kappa b_\alpha(b) := ()^\alpha(b)$
does
$\kappa H_\kappa b \in H_\kappa$ **condenses well** $g \subset (\omega, \kappa)V_{\bar{;}} \in H_\kappa \overline{{}^+ \in V[g]} b$
$= b \cdot \aleph_0$
$\overline{\in^+}$
$+ =_1^{+()}$
$\pi\colon \overline{{}^+ \to ()} V[g]\pi(\bar{)} = \pi(b \cup \{b\}) = \Sigma_0 \Sigma_2$
¶ $\in b($¶$) \in H_\kappa i\colon ($¶$) \to {}^+ \pi\colon {}^+ \to ()V[g]Vi($¶$) = \pi(\bar{)} = \cup\{b\}) = \pi(b \cup \{b\}) =,$
$i\Sigma_0 \Sigma_2 \pi \Sigma_1$
${}^+ = (\bar{)} \in V$
condenses well **?** *condenses finely*
determines itself on generic extensions $\varphi(v_0, v_1) \models +$ *there are arbitrarily large cardinals*,
$\kappa g \subset (\omega, \kappa)^{[g][g]} = (\tau_\kappa)^g \tau_\kappa \tau \models \varphi[\kappa, \tau]$
$\kappa H_\kappa b \in H_\kappa$ **radiant**[4]
(k, U, x)
α **coarse mouse witness condition at** α **with** $W_\alpha^*()U \subset R_\alpha(R)k < \omega x \in R(k, U, x)(N, \Sigma)\Sigma \in_\alpha (R)$
$\theta > 0g \subset (\omega, <\theta)VR^g := \bigcup_{\alpha<\theta} R^{V[g\alpha]}\alpha(R^g)(R^g) \models +W_\beta^*()$ *holds for all* $\beta \leq \alpha$.
$\in VH_{\aleph_1^{V[g]}}(R^g) \models W_{\alpha+1}^*()$ *iff* $V \models {}_n H_{\aleph_1^{V[g]}} n < \omega$
$\theta < \aleph_1^V$
$K(x)K(x)(X)$
$\theta\theta = \infty H_\theta(\theta, \theta)x \in H_\theta M_1(x)(\theta, \theta)x \in H_\theta(x)(x)(\theta, \theta) \in H_\theta(x)\eta \gg ()^{H_\eta}(\{x, (x), \})$
$\pi\colon \to H_\eta \bar{a} := \pi^{-1}(a)a \in \pi\overline{(x)} = (\overline{x})(\overline{x})\bar{b} \in V\bar{:} = (\bar{b}, \bar{)}\bar{b}\rho_1(_{\bar{b}})^{=\rho_1((\overline{x}))=\overline{x}<\delta(\bar{)},}$
$\delta(\bar{)}_{\bar{b}} \rho_1(_{\bar{b}})\delta(\bar{)}\overline{(}(\bar{)})$
$\equiv(\bar{)}(\bar{)}\overline{M}_{\bar{b}} M_{\bar{b}}(2)_{\bar{b}}^{\models} \forall\eta\forall\zeta > \eta : \eta M_{\bar{b}}^{|\zeta \not\models \varphi[\bar{x}, p]}$
$\Pi_2^1 \Pi_2^1 \delta(\bar{)}((\bar{)}) = (\bar{|}\delta(\bar{)})$ *not* $((\bar{)})^{\bar{b}}(\omega_1 + 1)\delta(\bar{)}_{\bar{b}}((\bar{)})V\bar{)}), \bar{)}($¶$,)$
¶¶$((\bar{)})$¶$((\bar{)}) =$ ¶$((\bar{)})\delta(\bar{)}((\bar{)}) = (\bar{|}\delta(\bar{)})\delta(\bar{)}((\bar{)}) =$ ¶¶
$(()\bar{)}\delta(\bar{)} \equiv (()\bar{)}$¶$F((\bar{)})(F) \leq o(\bar{)}\overline{¶}(F)$¶
$\delta(\bar{)}\delta(\bar{)}J(\bar{|}(F))(F)\bar{|}(F) =$ ¶$o($¶$) = (F)$¶ $= ((\bar{)})(())$¶
$\bar{b}(\bar{b}, \bar{)})((\bar{)})(\omega, \theta)\bar{b} \in Hb(b,)(())MM$
$MMM\lambda \vec{=} (_i| \ i < \lambda)\lim_{i<\lambda}^i \infty$
$\eta \gg (\vec{)} :=^{H_\eta} (\{x, M, \vec{\}})\pi :\to H_\eta \bar{a} := \pi^{-1}(a)a \in \pi \models \lim_{i<\bar{\lambda}}^{\bar{i}\infty}$ *is ill founded* $\models \lim_{i<\bar{\lambda}}^{\bar{i}\infty}$ *is well founded.*
$(\lim_{i<\bar{\lambda}}^{\bar{i}\infty)=(\lim_{i<\bar{\lambda}}^{\bar{i}\infty})^V} V$
$M_1(x)x \in H_\theta(x)$ *except* $\overline{(1) \models \forall\eta(\bar{|}\eta \not\models \delta(\bar{)}}$
¶$\delta(\bar{)}$¶ $= ((\bar{)})M_1(x)$
$\theta\theta = \infty H_\theta x \in H_\theta$
$K(x)|\theta(\theta, \theta)$
$M_1(x)(\theta, \theta)$
$K^{c,}(x)|\theta_\xi(_\xi) = M_1(x)$**??**$M_1(x)M_1(x)$
$K^{c,}(x)|\theta K^{c,}(x)|\theta(\theta, \theta)$
$\kappa < \theta\Omega :=_\kappa (\kappa)^+\Omega < \theta\theta\kappa < \theta\Omega K^{c,}(x)|\theta\S := (K^{c,}(x)|\Omega)\S := K^{c,}(x)|\Omega$**?**$\S\Omega$
$\Omega L[\S]\Omega K^{c,}(x)|\theta^{c,}(x)|\Omega^{+K^{c,}(x)|\theta} \subseteq \S.$
??$K(x)|\kappa K^{c,}(x)|\Omega$**?**$\Omega L[\S]$
$\kappa < \theta K(x)|\theta K(x)|\theta(\theta, \theta)$