1 Data

- (1) Keng pom tus aub Keng see Clf.sg dog "Keng sees the dog."
- (2) Keng pom cov aub
 Keng see Clf.pl dog
 "Keng sees the dogs." (all of the relevant dogs)
- (3) Keng pom ib tus aub Keng see Indef Clf.sg dog

 "Keng sees a/some dog." (non-specific)
- (4) Keng pom ib cov aub Keng see Indef Clf.pl dog "Keng sees some dogs."
- (5) *Keng pom ib aub Keng sees Indef dog "Keng sees a/some dog."

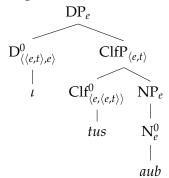
2 Proposal

2.1 Definites

- (6) $[tus]^{M_{g}} = \lambda P \lambda x. P(x) \wedge AT(x)$
- (7) $\llbracket cov \rrbracket^{M,g} = \lambda P \lambda x. P(x)$
- (8) $\llbracket \iota \rrbracket = \lambda P : \exists x [P(x) \land \forall y [P(y) \rightarrow y \leq x]] . \iota x [P(x) \land \forall y [P(y) \rightarrow y \leq x]]$

2.2 Definite compositions

(9) Singular definite structure



(10) Composition for tus aub

a.
$$[\![tus]\!]^{M,g} = \lambda P \lambda x. P(x) \wedge AT(x)$$
 (Lexical)
b. $[\![aub]\!]^{M,g} = \lambda x. \text{dog}(x)$ (Lexical)
c. $\text{ClfP} = [\![Clf([\![NP]\!])\!]]$ (FA+ β -reduction)
$$= [\![tus([\![aub]\!])\!]]$$

$$= [\![\lambda P \lambda x. P(x) \wedge AT(x)\!] (\lambda x. \text{dog}(x))$$

$$= \lambda x. \text{dog}(x) \wedge AT(x)$$
d. $[\![t]\!] = \lambda P : \exists x[P(x) \wedge \forall y[P(y) \rightarrow y \leq x]\!].tx[P(x) \wedge \forall y[P(y) \rightarrow y \leq x]\!]$ (Lexical)
e. $\text{DP} = [\![D([\![ClfP]\!])\!]]$ (FA+ β -reduction)
$$= [\![t([\![tus]\!] tus \ aub]\!])\!]$$

$$= \lambda P : \exists x[P(x) \wedge \forall y[P(y) \rightarrow y \leq x]\!].tx[P(x) \wedge \forall y[P(y) \rightarrow y \leq x]\!]$$

$$(\lambda x. \text{dog}(x) \wedge AT(x))$$

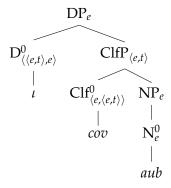
$$= \exists x[(\lambda x. \text{dog}(x) \wedge AT(x))(x) \wedge \forall y[(\lambda x. \text{dog}(x) \wedge AT(x))(y) \rightarrow y \leq x]\!]$$

$$.tx[(\lambda x. \text{dog}(x) \wedge AT(x))(x) \wedge \forall y[(\lambda x. \text{dog}(x) \wedge AT(x))(y) \rightarrow y \leq x]\!]$$

$$= tx[\text{dog}(x) \wedge AT(x) \wedge \forall y[\text{dog}(y) \wedge AT(y) \forall y \leq x]\!]$$

$$\frac{defined iff:}{d} \exists x[\text{dog}(x) \wedge AT(x) \wedge \forall y[\text{dog}(y) \wedge AT(y) \rightarrow y \leq x]\!]$$

(11) Plural definite structure



(12) Composition for cov aub

2.3 Indefinites

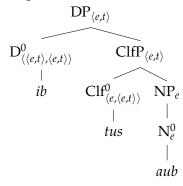
(13)
$$[\![ib]\!]^{M,g} = \lambda P_{\langle e,t \rangle}.f_{cf}(\lambda y.P(y) = 1)$$

2.4 Contexts

- (14) AUB_C : {Apollo, Mars, Copper}
 - a. $tus \ aub = A$
 - b. ib tus aub = A or M or C
- (15) *AUB_C*: {Apollo, Mars, Copper}
 - a. cov aub = AMC
 - b. ib cov aub = AMC or AM or AC or CM or A or M or C
 - c. *ib cov aub* = AM or AC or CM (via anti-presupposition)

2.5 Indefinites composition

(16) Singular indefinite structure



(17) Composition for *ib tus aub*

a.
$$[tus]^{M,g} = \lambda P \lambda x. P(x) \wedge AT(x)$$
 (Lexical)

b.
$$[aub]^{M,g} = \lambda x.dog(x)$$
 (Lexical)

c.
$$ClfP = [Clf([NP])]$$
 (FA+ β -reduction)

$$= [tus([aub])]$$

$$= [\lambda P \lambda x P(x) \wedge AT(x)] (\lambda x Post$$

$$= [\lambda P \lambda x. P(x) \wedge AT(x)] (\lambda x. \text{dog}(x))$$
$$= \lambda x. \text{dog}(x) \wedge AT(x)$$

d.
$$[\![ib]\!]^{M,g} = \lambda P.f_{cf}(\lambda y.P(y) = 1)$$
 (Lexical)

e.
$$DP = [D([ClfP])]$$
 (FA+ β -reduction)

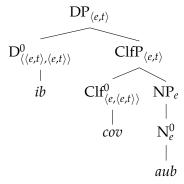
$$= [ib ([tus aub])]$$

$$= [\lambda P. f_{cf}(\lambda y. P(y) = 1)] (\lambda x. dog(x) \wedge AT(x))$$

$$= f_{cf}(\lambda y.(\lambda x.\text{dog}(x) \land AT(x))(y) = 1)$$

$$= f_{cf}.(\lambda y.dog(y) \wedge AT(y) = 1)$$

(18) Plural indefinite structure



(19) Composition for ib cov aub

a.
$$[\![cov]\!]^{M,g} = \lambda P \lambda x. P(x)$$
 (Lexical)

b.
$$[aub]^{M,g} = \lambda x.dog(x)$$
 (Lexical)

c.
$$ClfP = [Clf([NP])]$$
 (FA+ β -reduction)
= $[cov([aub])]$

$$= [\lambda P \lambda x. P(x)] (\lambda x. \text{DOG}(x))$$
$$= \lambda x. \text{DOG}(x)$$

d.
$$[l] ib]^{M,g} = \lambda P. f_{cf}(\lambda y. P(y) = 1)$$
 (Lexical)

(FA+ β -reduction)

e.
$$DP = [D([ClfP])]$$

 $= [ib([cov aub])]$
 $= [\lambda P. f_{cf}(\lambda y. P(y) = 1)](\lambda x. DOG(x))$
 $= f_{cf}(\lambda y. (\lambda x. DOG(x))(y) = 1)$
 $= f_{cf}. (\lambda y. DOG(y) = 1)$