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."

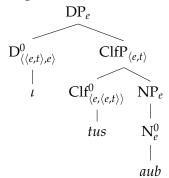
2 Proposal

2.1 Definites

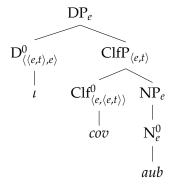
- (6) $[tus]^{M_{g}} = \lambda P \lambda x. P(x) \wedge AT(x)$
- (7) $\llbracket cov \rrbracket^{M,g} = \lambda P \lambda x. P(x)$
- (8) $\llbracket \iota \rrbracket = \lambda P : \exists x [P(x) \land \forall y [P(y) \rightarrow y \leq x]] . \iota x [P(x) \land \forall y [P(y) \rightarrow y \leq x]]$

2.2 Definite compositions

(9) Singular definite structure



(10) Plural definite structure



(11) Composition for tus aub

a.
$$[tus]^{M,g} = \lambda P \lambda x. P(x) \wedge AT(x)$$
 (Lexical)
b. $[tus]^{M,g} = \lambda x. dog(x)$ (Lexical)
c. $ClfP = [tus([tus])]$ (FA+ β -reduction)
$$= [tus([tus])]$$
 (FA+ β -reduction)
$$= [tus([tus])]$$
 (FA+ β -reduction)
$$= \lambda x. dog(x) \wedge AT(x)$$
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. $DP = [tus[tus]]$ (FA+ β -reduction)
$$= [tus[tus]]$$
 (FA+ β -reduction)
$$= [tus[tus]]$$
 (Ax. $tus[tus]$) (FA+ $tus[tus]$) (Ax. $tus[tus]$) (Dog(x) $tus[tus]$) (Ax. $tus[tus]$) (A

<u>defined iff:</u> $\exists x [pog(x) \land AT(x) \land \forall y [pog(y) \land AT(y) \rightarrow y \leq x]]$

(12) Composition for cov aub

2.3 Indefinites

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

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}

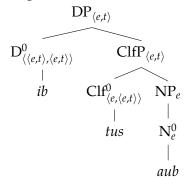
a. $cov \ aub = AMC$

b. ib cov aub = AMC or AM or AC or CM or A or M or C

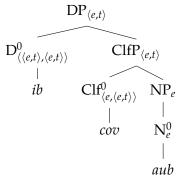
c. *ib cov aub* = AM or AC or CM (via anti-presupposition)

2.5 Indefinites composition

(16) Singular indefinite structure



(17) Plural indefinite structure



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(18) Composition for ib tus aub
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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. $[\![ib]\!]^{M,g} = \lambda P. f_{cf}(\lambda y. P(y) = 1)$ (Lexical)
e. $\text{DP} = [\![D([\![ClfP]\!])\!]]$ (FA+ β -reduction)
$$= [\![ib([\![tus\ aub]\!])\!]]$$

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

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

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

(19) Composition for ib cov aub

Composition for
$$ib \ cov \ aub$$

a. $\llbracket cov \rrbracket^{M,g} = \lambda P \lambda x. P(x)$ (Lexical)

b. $\llbracket aub \rrbracket^{M,g} = \lambda x. \text{Dog}(x)$ (Lexical)

c. $\text{ClfP} = \llbracket \text{Clf} (\llbracket \text{NP} \rrbracket) \rrbracket$ (FA+ β -reduction)

$$= \llbracket cov (\llbracket aub \rrbracket) \rrbracket = \llbracket \lambda P \lambda x. P(x) \rrbracket (\lambda x. \text{Dog}(x))$$

$$= \lambda x. \text{Dog}(x)$$

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

e. $\text{DP} = \llbracket D (\llbracket \text{ClfP} \rrbracket) \rrbracket = \llbracket ib (\llbracket cov \ aub \rrbracket) \rrbracket = \llbracket \lambda P. f_{cf}(\lambda y. P(y) = 1) \rrbracket (\lambda x. \text{Dog}(x))$

$$= f_{cf}(\lambda y. (\lambda x. \text{Dog}(x))(y) = 1) = f_{cf}(\lambda y. \text{Dog}(y) = 1)$$