



constructions exists also in Russian existential constructions (e.g. Paducheva 2000). As to GN, indefinite/non-specific NPs tend to receive the genitive case (e.g. Harves 2013). As shown in (4) and (5), (1b) cannot occur in either the existential or the GN constructions while (1a) can occur in both constructions with no problem.

- (4) V knižnom škafu est' { pjat' Diminyx knig / # Diminy pjat' knig }.  
 in bookshelf be five Dima's-GEN books Dima's-NOM five books  
 "There are five of Dima's books on the bookshelf."
- (5) Ivan ne čital { pjati Diminyx knig / # Diminyx pjati knig }.  
 Ivan NEG read [ five Dima's books ]-GEN [ Dima's five books ]-GEN  
 "Ivan did not read five of Dima's books."

These facts illustrated in (4) and (5) mean that (1b) is definite (and 1a is indefinite).

**Implementation of Definiteness.** It is possible to think that definiteness is encoded in semantics and we use a covert semantic operator "DEF" whose LF is (3). Generally, D(P) is assumed to be necessary to implement definiteness in nominal phrases in syntax, as a source of definiteness, since it is implemented through Agree with D (e.g. Koev 2011). However, under the operator analysis, even if the operator DEF exists in (narrow) syntax, nominal phrases can be derived without DP with no problem.

- (6) [ X [ Diminy [ Y [ pjat' [ Z kniga ] ] ] ] ]

The operator can merge anywhere in syntax; that is, it can be located at *X*, *Y*, or *Z* in (6). However, the meaning is successfully computed only in the case where DEF is located at *X*. If DEF is at *Y* or *Z*, the phrase in question can be derived in syntax but it cannot be interpreted through the interface to semantics. The high position of DEF is caused not by syntax but by semantics. Accordingly, we can conclude that the top node of nominal phrases is different from the projection endowed with the special status in syntax, referred to as "DP."

**Conclusion.** Accepting the operator DEF on the highest position, the analysis of possessives by Partee and Borschev (1998) and the numeral-as-modifier analysis (e.g. Scontras 2013), the LF of (1b) is following in (7):

- (7)  $\llbracket (1b) \rrbracket = : \exists x \forall y [ \text{MAX}(R(Dima)(y) \wedge \text{BOOK}(y) \wedge |y| = 5) \leftrightarrow x = y ]$ .  
 $\iota x. \text{MAX}(R(Dima)(x) \wedge \text{BOOK}(x) \wedge |x| = 5)$

The LF in (7) correctly reflects the maximal presupposition. The contrast in interpretations between (1a) and (1b) can be reduced to the plain difference in definiteness. It is unnecessary to relate the maximal interpretation of (1b) to the possessor's high syntactic position. Thus the maximal interpretation of nominal phrases cannot be used to support the presence of DP in Russian and it remains a semantic matter. In other words, the interpretation can be semantically yielded without the syntactic special projection, DP.

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