



Under (8) MPs are quantifiers over degrees and must raise to their scope position (i.e. (6 feet)( $\lambda d.J$  is  $d$  tall) ). Assume the contextual standard is given not by a single degree but by an interval  $std$ , and define  $d > std := T$  if  $d > sup(std)$ ;  $F$  if  $d < inf(std)$ ;  $UNDEFINED$  otherwise. As is, by (5), MPs are *never* licensed. For “tall”-type adjectives this is rectified by SSM, whereas applying SSM to “short”-type adjectives yields an empty set (7c), so that the former is predicted to license MPs while the latter should not. This explains (1). Furthermore, occurrence of an MP is correctly predicted to eliminate evaluativity. These predictions cut across the standard classification of adjectives: instead of polarity (or markedness), what determines MP licensing is whether SSM may apply without yielding  $\emptyset$ . Support for this is given by antonym pairs both of which license MPs (9) (cf. Winter 2005). Such adjectives measure divergence from the standard, thus for them we assume  $standard=0$  (e.g. Expected Time of Arrival in (9a,b)). That evaluativity and MP licensing obtain is a result of  $std=0$  (SSM applies vacuously to a single point standard).

9.a.  $[[late]]^c = \lambda d. \lambda x. lateness(x) \geq d \ \& \ d > ETA_c$  c. John is 3 minutes late (+E)

b.  $[[early]]^c = \lambda d. \lambda x. earliness(x) \leq d \ \& \ d < ETA_c$  d. John is 3 minutes early (+E)

**Degree Questions:** The above generalizes to ‘how’-questions if one assumes the Karttunen denotation for questions (sets of propositions) along with an existential quantifier semantics (over degrees) for “how”:  $how(Q(SSM)tall\ is\ John) = \{\lambda w. height_w(John) \geq d \ and \ d > (0) \ std|d \ a \ degree\}$ . A true answer can exist only if a suitable degree exists, so applying SSM is again limited to “tall”-type adjectives while “short”-type adjectives are predicted to be evaluative (2b,f). [Applying SSM to “short” would yield the contradiction for every  $d$ .]

**Comparatives and Equatives:** To account for comparatives and equatives, assume SSM may shift  $std$  not only to 0 but to other contextually salient degrees, specifically the degree associated with that entity to which we compare (WLOG for the above, as this option didn’t exist). Assume:

10. *comparative*:  $[[er]] = \lambda B_{<d,t>}. \lambda \mu_{<dt,t>}. \lambda A_{<d,t>}. \mu(A \setminus B)$  [i.e.  $\mu(A \cap B^{Comp})$ ]

11. *equative*:  $[[as]] = \lambda B_{<d,t>}. \lambda \rho_d. \lambda A_{<d,t>}. |A|/|B| \geq \rho$

Taking e.g. (2d) we have  $B = \{d|h(M) \geq d \ \& \ d > Std\}$ ,  $A = \{d|h(J) \geq d \ \& \ d > Std\}$ . If SSM shifts to 0 we get  $A=(0,h_J]$ ,  $B=(0,h_M]$ , and applying existential closure ( $\exists \mu \neq 0$ ) (2d) is true iff  $h_J > h_M$ . Shifting instead of 0 to  $h_M$  we have  $A=(h_M, h_J]$ ,  $B= \emptyset$ , giving the same result. For (2h) SSM-to-0 yields a contradiction and is blocked but SSM-to- $h_M$  now gives  $A=[h_J, h_M)$  and  $B= \emptyset$  as needed. In sum, for the comparative, a shifting morpheme which eliminates evaluativity is available for all gradable adjectives and thus non-evaluativity is always predicted. MP licensing follows from the denotation (the interval denoted by the standard is replaced by a single degree).

For equatives applying SSM-to-0 for “tall”-type adjs. is fine (2c), but yields a contradiction on “short”-type adjs., for which SSM-to- $h_M$  is also banned (division by 0), so the only available interpretation for these is evaluative (2g). This further predicts that “*This tie is twice as cheap as that jacket*” be vague as it must be context-dependent to survive. [Note: in (11) I assume an existential closure of the form  $\exists \rho \geq 1$  but this doesn’t ban e.g. “*I’m half as tall as you are*”.]

**A Predicted Generalization:** Having accounted for (1) and (2) we can now Generalize Bierwisch’s (1989) Observation (GBO): *Adjectives do not license MPs in the non-comparative form iff they are (i) evaluative in equative and ‘how’-question constructions; and (ii) have originally non-zero standards.* GBO is an embodiment of the principle that evaluativity is inherent and may be eliminated iff SSM applies non-vacuously.

Questions remain as to independent sources of MP-banning (e.g. \* 1000° hot – perhaps SSM fails due to a vague “0”?) but the correlation between MP and evaluativity distribution embodied by GBO obtains for these as well, supporting this new theory of inherent evaluativity.