1116-03-1667 **Katalin Bimbó*** (bimbo@ualberta.ca), University of Alberta, Department of Philosophy, 2–40 Assiniboia Hall, Edmonton, Alberta T6G2E7, Canada. *Connections between relational semantics for $E_{\rightarrow}$ and E.*

$E_{\rightarrow}$ can be seen (and has been claimed) to capture the core features of entailment. There is a well-known relational semantics for E (the logic of entailment) and E_+ (the positive fragment of E). There are many variations on these semantics. (See e.g., Bimbó, K. and J. M. Dunn, *Generalized Galois Logics: Relational Semantics of Nonclassical Logical Calculi*, vol. 188 of CSLI Lecture Notes, Stanford, CA, 2008.) We show that the straightforward *restriction* of the relational semantics for E to a semantics for $E_{\rightarrow}$ is sound, but not complete with several naturally emerging notions that could replace prime filters in the completeness proof for E (or E_+). The addition of extensional conjunction or of intensional conjunction and truth alleviates the previous difficulties in the semantics, which led to the idea of a modification in the definition of the canonical accessibility relation. We prove that $E_{\rightarrow}$ is complete for this semantics when prime filters are replaced by cones. We also show that this semantics *extends* to the usual relational semantics for E, because the stronger definition of the accessibility relation simplifies in the presence of all the connectives of E. (Received September 21, 2015)