## Semantic relations

Taxonomy, Partonomy, Attributes, Roles

## KEY

taxonomic relation

prototype hyponym

other hyperonym-hyponym relation

marginal or not really hyponym

primary partonomic relation

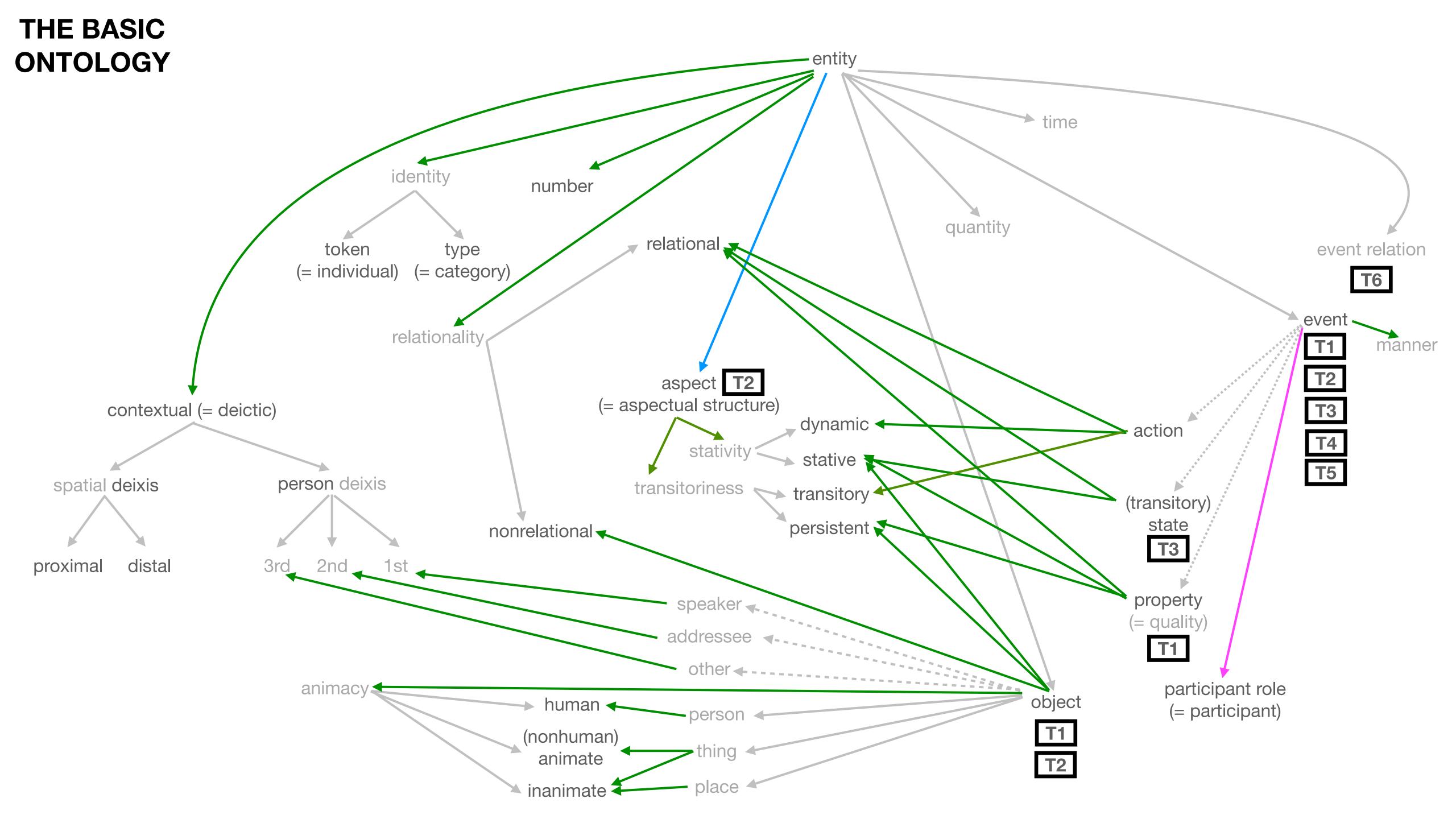
other partonomic relation

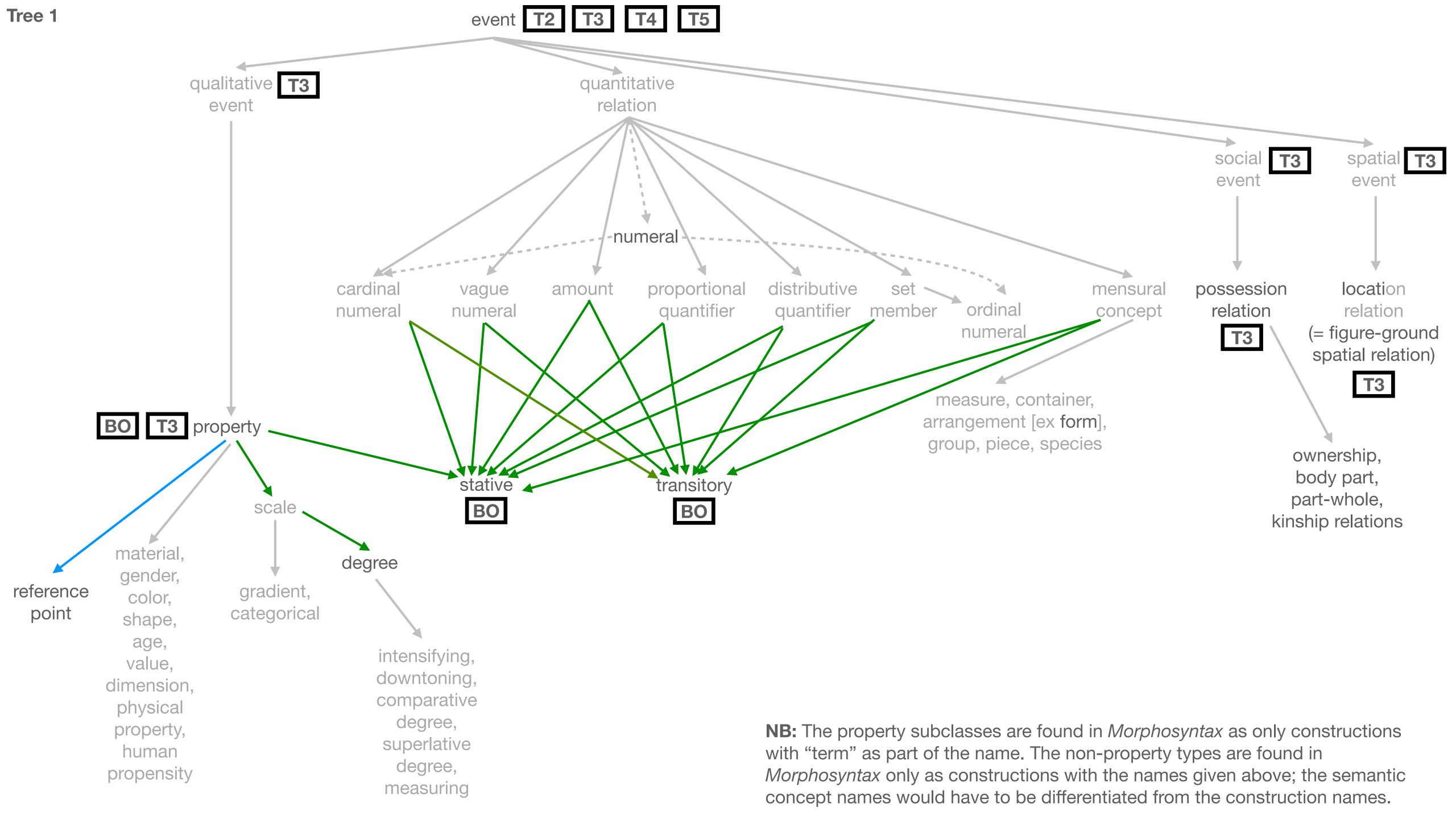
feature (attribute) relation

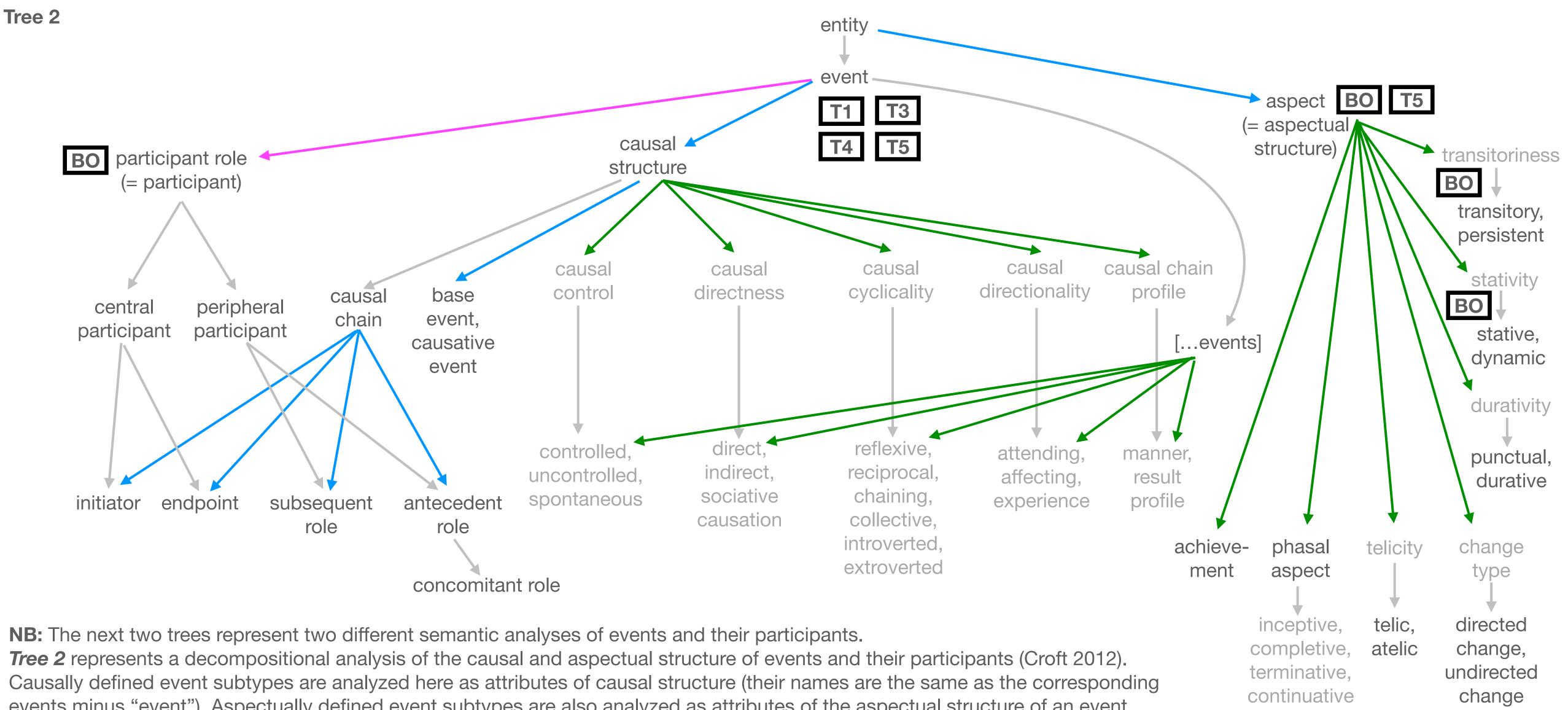
role relation

semantic semantic term not in *Morphosyntax* (but should be)

T# this tree is linked to Tree # at this node

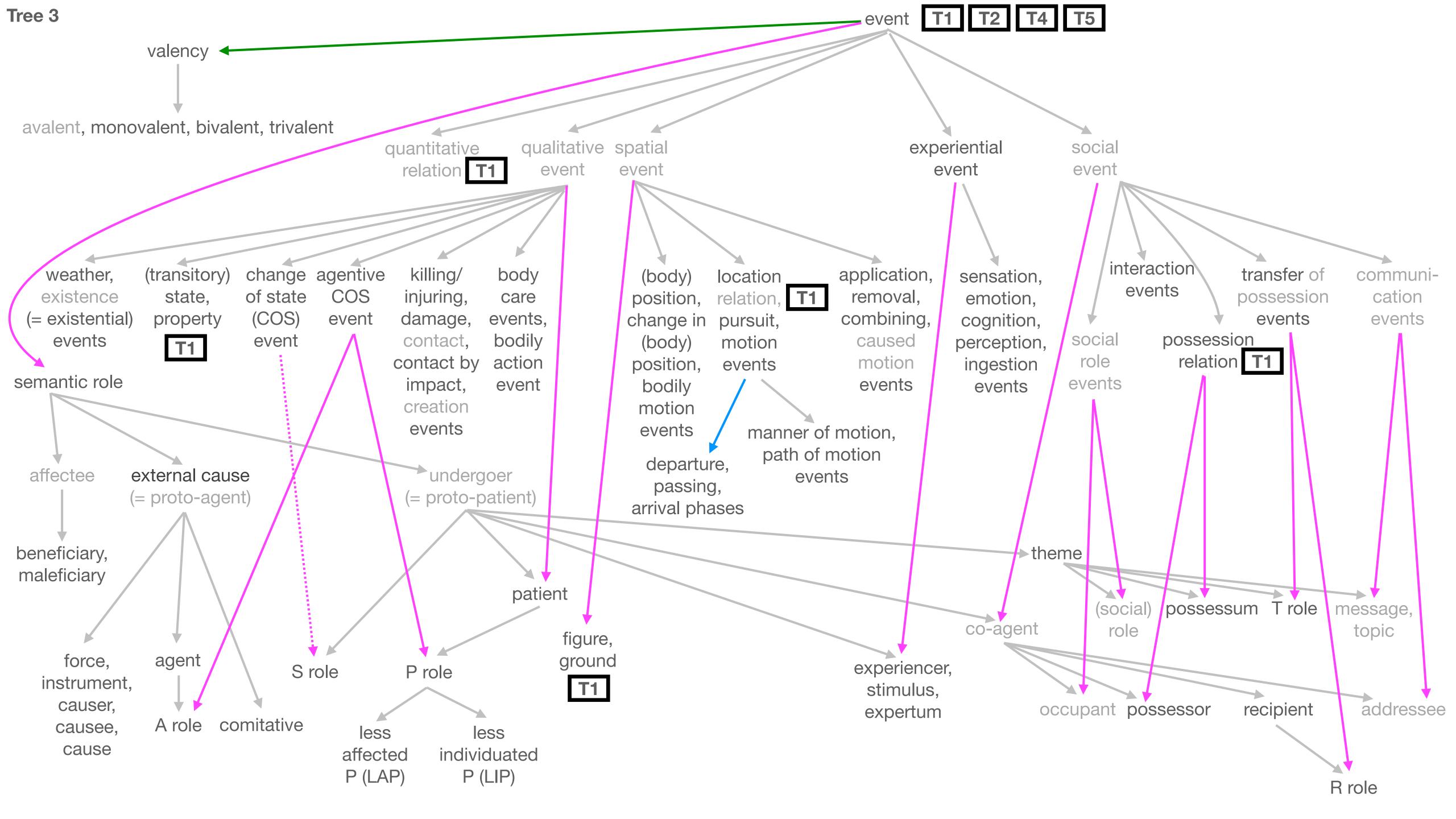


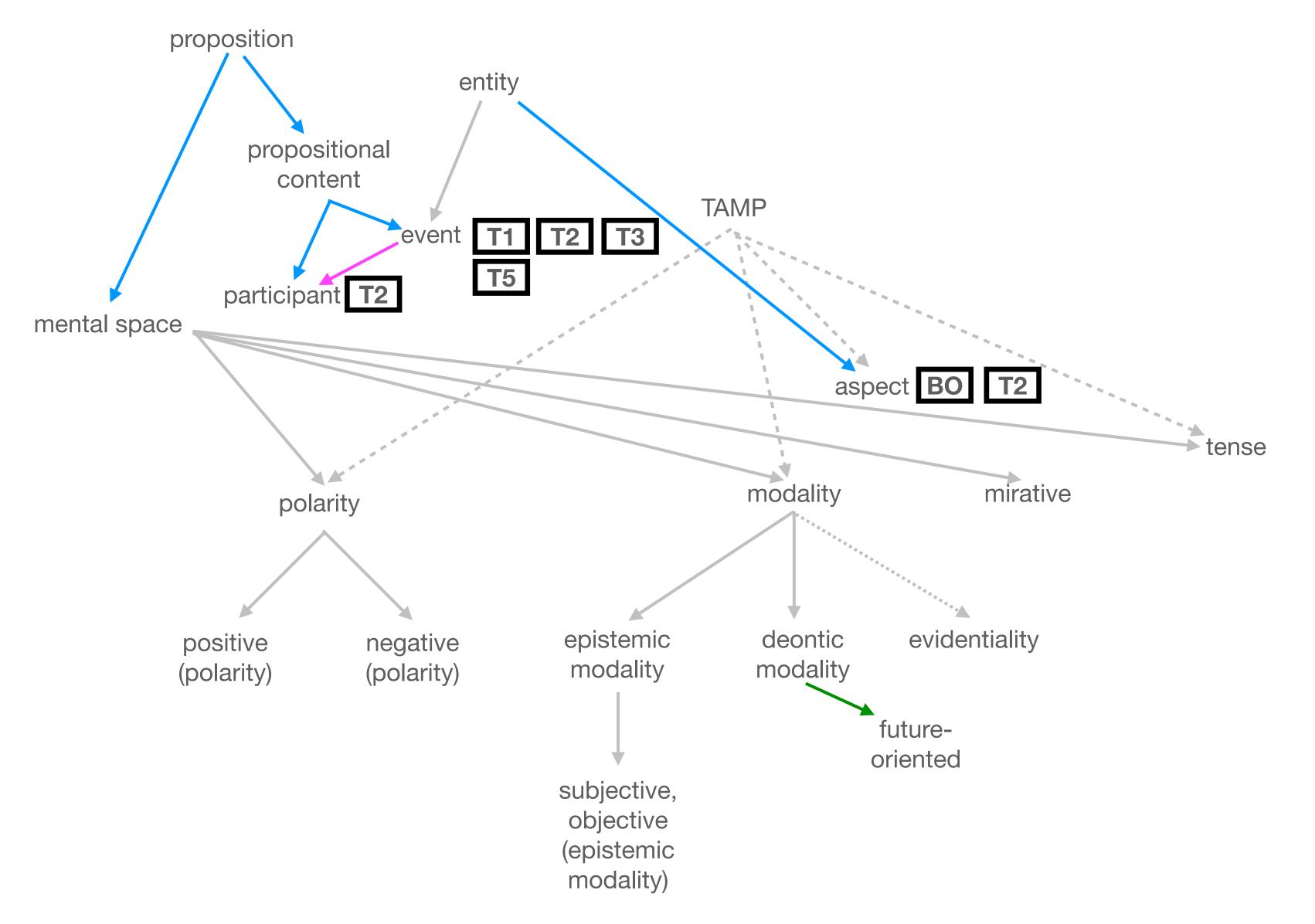




(= perseverative)

*Tree 2* represents a decompositional analysis of the causal and aspectual structure of events and their participants (Croft 2012). Causally defined event subtypes are analyzed here as attributes of causal structure (their names are the same as the corresponding events minus "event"). Aspectually defined event subtypes are also analyzed as attributes of the aspectual structure of an event. *Tree 3* represents a standard semantic role analysis of event participants, analyzed in terms of event superclasses based on semantic domains that are used to define the roles (unpublished work, from NSF grant #2213804 on Uniform Meaning Representation). The classification of social events, not as well explored, is based on Kalm 2022 [PhD dissertation]). Events with other events as participants are found in Tree 6. Valency is represented as an attribute of events, and the exemplar model of valency-based semantic roles (Haspelmath 2011b, 2015) is represented as subtypes of widely-used semantic roles. Semantic roles are grouped as "external-cause/proto-agent" and "undergoer/proto-patient" (cf. Dowty 1991), mainly to allow generation of this subgraph in the database.





**NB:** The propositional content of a proposition is essentially the same as the event, including its participants (i.e., "who did what to whom"). In *Morphosyntax,* I follow the mental space analysis of propositions and semantic categories associated with propositions. A proposition is essentially an event in a particular mental space, either 'reality space' (i.e. a proposition taken to be true by the interlocutors) or a non-real mental space representing polarity, modal/evidential status, or also a particular time. Hence polarity, modality-evidentiality and tense are subtypes of mental spaces. A non-mental space analysis might simply have polarity, modality-evidentiality and tense as attributes of a proposition.

