

## **A Dynamic Semantics of Dialogue**

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In this talk we present a logically precise analysis of dialogue content and of how what's said influences and is influenced by the dialogue agents' mental states. The dialogue semantics distinguishes among the public commitments of each dialogue participant, including commitments to illocutionary effects of the speech acts performed. This provides the basis for modelling implicit agreement and disputes. Public commitments are then linked to other, private, attitudes in a dynamic logic of public announcement that incorporates axioms of rationality and cooperativity; this provides the basis for practical and strategic reasoning about dialogue moves. By incorporating game-theoretic principles within this logic, some axioms of cooperativity are derived rather than stated as a primitive.