

•Eijck, Jan van (University of Amsterdam & CWI, The Netherlands);

TITLE: Belief, Uncertainty, and Probability, Jan van Eijck (CWI, ILLC)

For reasoning about uncertain situations, we have probability theory, and we have logics of knowledge and belief. How does elementary probability theory relate to epistemic logic and the logic of belief?

The talk will argue that uncertainty caused by ignorance and uncertainty caused by physical indeterminism can be handled both by probability theory and by the logic of knowledge and belief, and that these two perspectives are systematically related, even intimately connected.