

Modal logics of Hamming spaces and products of Kripke frames

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Joint work with Andrey Kudinov and Valentin Shehtman

We consider modal logics of sets of words with relations induced by the Hamming metric. We show that these logics are closely related to many-dimensional products of modal logics. We present results on (un)decidability, non-finite axiomatizability and completeness for these logics.