

Intuitionistic modal logics with a possibility (diamond) connective have proliferated in the literature, motivated by different ideas in translational proof theory, structural proof theory, semantics, and applications. We can be comfortable with this zoo of options so long as we have tools to compare them. In work with Jim de Groot and Ian Shillito I have investigated birelational frames for Constructive K (CK) as a unified setting for the semantics of the various stronger logics that have been proposed. We have also developed a categorical duality result linking the algebraic and birelational semantics of CK, with the goal of developing results about the definability of classes of frames in this unified setting.