

Topological Semantics of Modal Logic

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Abstract: One of the focal points of research at Leo Esakia's logic group in Tbilisi has been the topological interpretations of modal diamond first put forth by McKinsey and Tarski in the 1940s. In this talk I will survey this research area and report some recent results obtained by Leo Esakia, his students and colleagues. I will try to delineate the main trends, methods and constructions, as well as the remaining open problems in this line of research.