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Reconstructing the topology of polymorphism clones of homogenous structures

Joint work with Christian Pech

Every clone of functions comes naturally equipped with a topology—the topology of pointwise convergence. A clone C is said to have automatic homeomorphicity with respect to a class K of clones, if every clone-isomorphism of C to a member of K is already a homeomorphism (with respect to the topology of pointwise convergence). In this talk, we will focus on automatic homeomorphicity-properties for polymorphism clones of countable homogeneous relational structures. For this purpose, we will introduce and study universal homogeneous polymorphisms. The results extend and generalize previous results by Bodirsky, Pinsker, and Pongrácz.