A local analysis of bounded partial orders

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In this talk I will report on the recent advances in studying local properties of the traces of maximal clones. In particular, endomorphism monoids of bounded partial orders are studied with respect to endomorphism monoids of totally reflexive totally symmetric relations. For this it is crucial to characterize when a partial bijective endomorphism of a bounded partial order can be extended to a total endomorphism. This question is going to be considered for different types of bounded partial orders.