

PUNCTUAL COMPUTABILITY

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I will talk about the recent significant progress in the study of “online” (punctual) presentations of algebraic and combinatorial structures. Such studies lie at the boundary between constructive model theory and feasible algebra. Remarkably, the powerful degree-theoretic techniques can be used to derive unexpected corollaries on punctual presentations of common algebraic structures such as countable graphs, linear orders, and finitely generated groups. I will also discuss several counterintuitive pathological examples, including the recently announced joint result with Ng on structures with finite punctual dimension.

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