

# LEARNING STRUCTURES

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Let  $\mathcal{K}$  be a class of effectively given structures. Suppose we receive information about a structure from  $\mathcal{K}$  step by step: finitely much at each step. Our goal is to determine, after finitely many steps, which structure we are observing. We formalise this setting using the ideas of algorithmic learning applied to computable structure theory. We consider the cases of computable and  $\Sigma_1^0$  structures, together with the suitable notions of learning from informant and text, respectively.

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