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Title: Ultrafilters

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Ultrafilters are important structures in areas of mathematics as diverse as combinatorics, model theory, topology and dynamical systems. In this talk, I explain how the notions of ultrafilter, ultrapower, product of ultrafilters, and Rudin–Keisler ordering of ultrafilters, are all encapsulated in the following result: the category of finite-coproduct-preserving endofunctors of the category of sets is a presheaf category.