1116-03-239Jindrich Zapletal*, Department of Mathematics, University of Florida, Gainesville, FL 32611.Interpretations of topological spaces.

There is a natural covariant interpretation functor which makes it possible to interpret topological spaces from a wellfounded model of ZFC in a larger wellfounded model of ZFC. There is a wide topological category (the interpretable spaces) on which the interpretation functor commutes with many natural operations, and preserves many properties of popular topological structures. This places the folkloric forcing calculus regarding Polish spaces on a firm foundation and extends it to the non-separable context. The subject resonates with basic concerns of functional analysis and general topology. (Received August 17, 2015)