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Cameron Donnay Hill* (cdhill@wesleyan.edu). *0,1-Laws and pseudofiniteness of \aleph_0 -categorical theories.*

I will survey some recent results around questions of the form “What are pseudofinite \aleph_0 -categorical theories like?” and “What are almost-sure \aleph_0 -categorical theories like?” Ideally, we would like to answer such questions solely in terms of structural properties the theories’ models — without reference to ultraproducts or probability theory. I will present evidence that certain higher amalgamation properties and model-theoretic properties like super-simplicity are sufficient to answer our questions completely. (Received September 15, 2017)