

Ali Enayat's Research Statement

My research is principally focused on *foundational* axiomatic systems ranging in strength from weak theories of arithmetic in which exponentiation of finite numbers might be a partial operation, all the way up to systems of set theory with large cardinals. I am also interested in 'alternative set theories' (e.g., Quine-Jensen set theory NFU) and their precise relation - at the interpretability level - with orthodox ZF-style theories of sets. A common theme in my work is the use of a combination of model-theoretic and set-theoretic methods and ideas to gain a better understanding of the complex web of affinities and disparities between finite and infinite set theory.