

Research Statement

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Definability and forcing extensions:

- Laver's Theorem and definability (with parameters in M) of a set-generic restriction M of V .
- Bukovsky's Theorem and characterization of V being a κ -cc (resp. size at most κ) generic extension of M .
- First-order formulations of the above two properties and Ground Axiom.

Approximation properties and consequences:

- κ -approximation in $H(\kappa)$.
- Properties of κ -approximated sets.
- Closure \overline{M}^κ of a model M by κ -approximation.