

Oral Qualifying Exam Syllabus

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1 Combinatorial Set Theory

- Forcing
- Large cardinals
- Stationary reflection
- Preservation of stationary sets
- Square property
- Prikry forcing

2 Topic in Descriptive Set Theory

- Borel and Analytic sets
- Borel and projective hierarchy
- AD and its basic facts
- Consequence of AD
- Open determinacy and Borel determinacy
- AD and large cardinal (e.g. Analytic determinacy)