Department of Mathematics, BGU

Model theory working seminar

On *Nov ,19 2025*

At *12:10 – 14:00*

In *Room 4*

Roei Shirfii

will talk about

Categorical logic and Makkai's conceptual completeness theorem

Abstract: The conceptual completeness theorem answers a fundamental question: given the category of models of a theory, how much of the theory's syntax can be recovered? After a gentle introduction to categorical logic and classfiying categories, I will explain Makkai's remarkable result showing that the semantic category, together with ultraproduct-preserving functors, determines the theory up to definitional equivalence.