Department of Mathematics, BGU

AGNT

On *Jan ,29 2025*

At *14:10 – 15:10*

In *101-*

Shay Ben-Moshe (Max Planck–Weizmann)

will talk about

Descent and Redshfit in Algebraic K-Theory

Abstract: I will begin with an introduction to algebraic K-theory, highlighting its connections to number theory and algebraic geometry, with a focus on descent phenomena. Next, I will provide an overview of chromatic homotopy theory and its relationship to K-theory. I will then discuss the redshfit conjecture and several signfiicant advances from recent years. Finally, I will present joint work with Carmeli, Schlank and Yanovski on the compatibility of K-theory with chromatic analogues of cyclotomic extensions. I will explain how this result contributed to the recent refutation of Ravenel's long-standing telescope conjecture.