

Department of Mathematics, BGU

---

---

# AGNT

---

---

*On Wednesday, January ,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 significant 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.