

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 9 בנובמבר, 2021

בשעה 14:30 – 15:30

בMath-101

ההרצאה

substitution multiscale in disorder and Order tilings

חינתן על-ידי

University) (Rutgers Smilansky Yotam

תקציר: The study of aperiodic order and mathematical models of quasicrystals is concerned with ways in which disordered structures can nevertheless manifest order. In this talk I will describe several examples of aperiodic tilings, including Penrose tilings, pinwheel tilings, and several other constructions. We will focus on the spectral properties of these tilings, and how they relate to the dynamical behavior of the corresponding substitution multiscale tilings. A recent result of Solomon and Yaar, jointly introduced