

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 5 בדצמבר, 2017

בשעה 14:30 – 15:30

ב-Math 101

ההרצאה

geometry diophantine and tame in Effectivity

תינתן על-ידי

(Weizmann) Binyamini Gal

תקציר: I will describe a link between tame geometry and diophantine geometry. In the following decade, the fundamental theorem of algebra has been unfolding in the theory of minimal structures. In particular, the Pila-Wilkie theorem describes the intersection of a definable set with a curve of genus g in terms of the degree and the genus. This theorem is a generalization of the Manin-Mumford conjecture, which was proved by Lang and Pila (by curves modular for conjecture Andre-Oort the Pila-Zannier), (by will I geometry. diophantine in intersections“ ”unlikely of questions other many its and theorem Pila-Wilkie the of effectivity to related questions discuss then our discuss will I particular In applications. diophantine the for implications conjecture, Wilkie’s of form restricted the of Novikov) with (joint proof recent sets. semi-Noetherian of class larger the for effectivity on results recent more and