

המחלקה למתמטיקה, בן-גוריון

קולוקוויום

ביום שלישי, 10 במאי, 2022

בשעה 14:30 – 15:30

ב-101 Math

ההרצאה

Boolean low-degree functions of shape the hear you Can function?

חינתן על-ידי

(BIU) Keller Nathan

תקציר: Boolean Analysis of functions aims at understanding the structure of functions on the discrete cube $\{-1,1\}^n$, namely, the Fourier transform (discrete) of the function. In this talk, we focus on "low-degree" functions of structure the on frequencies. "low" on concentrated are coefficients Fourier whose functions on understanding from far surprisingly are we simple, very look functions such While several present shall We case. first-degree basic most the in even well, them proof recent the including cube, discrete the on functions first-degree on results function first-degree any that asserts which (1986) conjecture Tomaszewski's of mean its from deviation standard one within lies variable) random a as (viewed questions, open core several discuss shall we Then .1/2 least at probability with

low-degree a that knowledge the does what understanding, to down boil which
structure. its about us tell two-valued, is or bounded, is function
Klein Ohad with work joint on Based