

Department of Mathematics, BGU

Colloquium

On Tuesday, January, 8 2019

At 14:30 – 15:30

In Math 101-

Dmitry Batenkov (MIT)

will talk about

Stability of some super-resolution problems

Abstract: The problem of computational super-resolution asks to recover fine features of a signal from inaccurate and bandlimited data, using an a-priori model as a regularization. I will describe several situations for which sharp bounds for stable reconstruction are known, depending on signal complexity, noise/uncertainty level, and available data bandwidth. I will also discuss optimal recovery algorithms, and some open questions.