Online talk series

It is a pleasure to announce a guest lecture with the title

Discrete Improving Inequalities

SPEAKER: **Michael Lacey**

TIME: Thursday, 04.02.2021, 04:00 - 04:45 pm.

Abstract: The study of improving inequalities in the continuous setting has been under active investigation for many decades. For instance, the improving properties of averaging over the unit sphere go back to the 1970s. The study of discrete harmonic analysis inequalities began with the foundational work of Bourgain on arithmetic ergodic theorems, and the study of discrete harmonic anlysis is thriving. A recent trend has been the study of discrete improving inequalities, with the properties of averaging over the discrete unit sphere only being addressed in the last three years. We survey these results, and their implications.