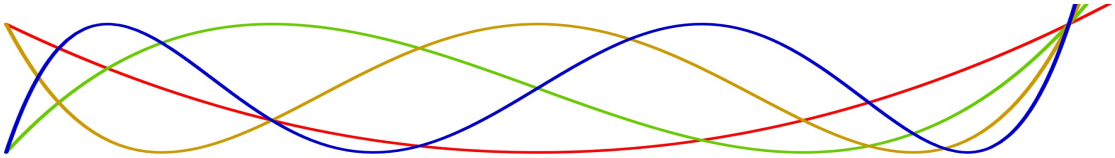

Аналитический семинар лаборатории Чебышева

Семинар начнет свою работу во вторник, 21 марта, 15-00, 14 линия, ауд. 413

A. Logunov (Tel-Aviv University, Chebyshev lab.)

0,01% Improvement of the Liouville property for discrete harmonic functions on $\mathbb{Z}^2$

Let u be a harmonic function on the plane. The Liouville theorem claims that if $|u|$ is bounded on the whole plane, then u is identically constant. At the same moment for any angle on the plane $\mathbb{R}^2$, there exist a harmonic function that is non-constant and is bounded outside the angle. It appears that if u is a harmonic function on a lattice $\mathbb{Z}^2$, and $|u| < 1$ on 99,99% of $\mathbb{Z}^2$, then u is a constant function. Based on a joint work (in progress) with L. Buhovsky, Eu. Malinnikova and M. Sodin.

Приглашаются все желающие!