

Discrepancy and energy minimization on the sphere

Dmitriy Bilyk, University of Minnesota

I will give an introductory talk about some aspects of distributing points on the sphere: discrepancy, energy minimization, and the interplay between the two. In many cases, minimizing discrepancy is equivalent to minimizing a certain energy, although the connection between the two is sometimes very implicit. I will also discuss several conjectures about point distributions on the sphere.