
* **UCLA Combinatorics Seminar** *

Date: Thursday, June 9, 1.50-2.50 in Room 5217

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Technion

Nearly equal distances in metric spaces

Abstract

We show that in any metric space with n elements there exist two distances that are almost equal in the sense that their ratio differs from 1 by at most $(\log n)/n^2$. This result is best possible in general metric spaces. We consider also the Euclidean metric space and discuss related results and open problems.

This is a joint work with Amit Ophir.