

5005-C1-40

Piotr Indyk*, 32 Vassar St, Room 642, Cambridge, MA 02139. *Explicit constructions in high-dimensional geometry.*

I will present explicit constructions of various high-dimensional geometric structures, of interest in geometric functional analysis and sparse approximation. The main tools used to construct those structures are highly expanding pseudorandom graphs, called extractors. (Received May 31, 2007)