



istanbul matematiksel bilimler merkezi
istanbul center for mathematical sciences

PROBABILITY MEETINGS

Friday, December 8, 2017

15.00-15.45: Ümit Işlak (Boğaziçi University) *Recent progress in longest subsequence problem*

The talk will begin with a brief survey of classical results on longest common subsequence problem for random words. Later, I will discuss more recent results on asymptotic distribution and central moments. Seemingly very elementary problems related to longest common subsequences has not been solved even for binary alphabets. The talk will be concluded with a discussion of such open questions.

15.45-16.00: *Coffee Break*

16.00-16.45: Ella Hiesmayr (Koç University) *First moment problem for expected length of longest common subsequences in random permutations*

It was conjectured by Bukh and Zhou, 2016, that the expected length of longest common subsequences in any two i.i.d. permutations is minimized when the underlying distribution is uniform. Later, Houdre and Xu, 2017, gave a negative answer to this problem via a non-constructive proof. The purpose of this talk is discuss the recent developments on lower bounds for the expected length in i.i.d. random permutations, and to state related open problems.

Place : IMBM Seminar Room, Boğaziçi University South Campus