

Boğaziçi MATH COLLOQUIUM

On the counting and growth functions of context-free languages

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Abstract: Given a formal language L , the counting function of L (resp., growth function of L) is the function that maps every non negative integer n into the number of words of L of length n (resp., n at most). The interest of these functions relies on the fact that the study of their asymptotic behaviour provide information on the structure of the language.

In this talk we will survey some classical and recent results on the counting and growth functions of context-free languages. The talk will be self-contained.

Date : Wednesday, April 5, 2017

Time: 15:00

Place: TB 250, Boğaziçi University