

**Departamento de Matemáticas**

# **About the adaptive method in linear programming**

**Abstract:** Many problems are naturally modelled as linear optimization problems. The simplex algorithm has long been the most common method to solve these problems. Gabasov and al. use another approach called the adaptive method. It possesses properties that are typical for a primal simplex-method but unlike the latter it does not assume that the initial feasible solution is basic; another principle of transformation of information is used. Also it can stop the solution process according to the suboptimality criterion. Being exact the adaptive method observes all the constraints of the problem.

In the first part of this talk, we will present the general principal of this method in linear programming with bounded variables.

In the second part, we will give the different extensions of this adaptive method realized by our equip.

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**Fecha:** Miércoles 29, a las 13 horas.

**Lugar:** Seminario de Matemáticas, Facultad de Ciencias.