

Diego Armentano (Universidad de la República)
On the condition number of some algebraic problems

Abstract: In this talk we will introduce a geometric framework to analyze the condition number of some classic algebraic problems. We will compute the average value of the squared condition number, when the input is taken at random, for a large family of these problems. In particular, we will show that the polynomial eigenvalue problem is quite well conditioned. (Joint work with Carlos Beltrán)