

Talk: Tensors

Speaker: Giorgio Ottaviani– UNIFI

Abstract: An introduction to tensor decomposition and tensor rank, from a geometric point of view, with the construction of the secant varieties.

The symmetric binary case is a "toy" case, which has been completely understood since the XIX century, and allows to appreciate the flavour and the difficulties of the general case. In the last part of the talk we consider the low-rank approximation problem, an optimization problem, both for matrices and tensors.