

Dimension of the variety of flags fixed by a nilpotent endomorphism

José Martínez Bernal
CINVESTAV-IPN

The problem of computing the dimension of the variety of flags fixed by a nilpotent endomorphism is reduced to a problem of polynomial complexity by means of a combinatorial optimization approach. We also recover a criterion to decide when this dimension attains a well known upper bound. This last result is related to the Gale-Ryser Theorem on the existence of $(0,1)$ -matrices.