Universitat de Barcelona
Departament d'Àlgebra i Geometria

SEMINARI DE GEOMETRIA ALGEBRAICA 2004-05

Divendres, dia 11 de Febrer
Aula B5. Facultat de Matemàtiques

15:00 *On the dimension of certain parametrizing schemes*
G. Valla
Universitat de Gènova

Resum. I will discuss some result concerning schemes which parametrize families of algebraic or geometric objects. The approach is mainly algebraic and leads to old and new formulas concerning the dimension of the schemes which parametrizes codimension two or Gorenstein codimension three artinian graded algebras with a given Hilbert Function, or zero-dimensional schemes of the projective plane with a given Hilbert function. Some result on certain catalecticant varieties are also considered. Finally, following recent work by Iarrobino, the codimension of the Betti strata is discussed in some case.