

Distributions and Syzygies

Alan Muniz (UNICAMP)

A distribution D on a projective space is given by a homogeneous polynomial differential p -form whose vanishing locus is $\text{Sing}(D)$, the singular scheme of D . In this talk, we will explore the relationship between D and $\text{Sing}(D)$. In particular, we will see how to use syzygies to construct distributions with a prescribed singular scheme.