Gordon Heier, Harvard U., USA

Algebraic methods in the theory of finite type domains

We will present a way to effectively compute the type of an ideal of holomorphic functions vanishing only at the origin in $\mathbb{C}^n$ (math.CV/0506557, joint with R. Lazarsfeld). As time permits, we will also give an introduction to J. J. Kohn's algorithm for subelliptic multiplier ideal sheaves and point out its significance as an effective Frobenius theorem for Artinian subschemes.