

ALGEBRA AND NUMBER THEORY
SEMINAR

Syzygies and Boij–Soederberg Theory

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Abstract: For a system of polynomial equations, it has long been known that the relations (or syzygies) among the polynomials provide powerful insights into the properties and invariants of the corresponding projective varieties. Boij–Soederberg Theory provides a powerful perspective on syzygies, and in particular reveals a surprising duality between syzygies and cohomology of vector bundles. I will describe some new results on this duality and on the properties of syzygies.

Wednesday, September 26, 2012, 3:00 pm
Mathematics and Science Center: W306

MATHEMATICS AND COMPUTER SCIENCE
EMORY UNIVERSITY