

Department of Applied and Computational Mathematics and Statistics Colloquium



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Refined algorithm to compute syzygies

In the talk I will explain how a refined algorithm to compute syzygies leads to a substantial speedup in syzygy computation of free resolutions. The algorithm starts with a Groebner basis over the rational, but then may compute the free resolution with floating point coefficients. I will indicate why I believe that this algorithm is numerically stable.

Monday, November 30, 2015
4:00 PM – 5:00 PM
127 Hayes-Healy Center

Colloquium Tea 3:30 PM to 4:00 PM 154 Hurley Hall