

Speaker: Jacob Boswell and Vivek Mulkundan
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Wednesday, February 11, 2015

3:00 pm

Room: 258 Hurley Hall

Title: Rees Algebras and almost linearly presented ideals

Abstract:

Consider a grade 2 perfect ideal I in $R = k[x_1, \dots, x_d]$ which is generated by forms of the same degree. Assume that the presentation matrix φ is almost linear, that is, all but the last column of φ consist of entries which are linear. For such ideals, we find explicit forms of the defining equations of the Rees algebra $\mathcal{R}(I)$. We also introduce the notion of iterated Jacobian duals.