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A Liouville Theorem for algebraic varieties

Liouville's Theorem provides a bound on how well rational numbers can approximate algebraic numbers. Roth's Theorem gives a much better bound in general, but for rational approximations of rational numbers, Liouville's Theorem is actually better, and is sharp to boot! In my talk, I will describe how Seshadri constants are involved in a generalization of Liouville's Theorem to rational approximations on arbitrary algebraic varieties, and deduce from all this a conjecture of McKinnon for certain cubic surfaces. This talk is based on joint work with Mike Roth of Queen's University.