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**Nick Rauh\*** (nrauh@math.utexas.edu). *An Alternative Formulation of Arithmetic Bezout with Applications to Diophantine Problems.*

An alternative approach to formulating Arithmetic Bezout type theorems will be outlined, focusing more on formal properties of resultants and height inequalities than deep algebraic geometry. We will then examine some applications to Cassels search bound problems, including a proof of the quadratic case in the spirit of Cassels' original approach. (Received September 08, 2013)