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A multigraded vanishing theorem

One of the most celebrated theorems in complex algebraic geometry is Kodaira vanishing together with its extension due to Kawamata and Viehweg. In this talk I will discuss about a joint work with G. G. Smith, where we generalize K-V vanishing in any codimension. I will also present a few applications to this work, by giving answers to questions of projective normality and multigraded regularity.