

1134-32-201

**Andrew S Raich\*** (araich@uark.edu). *The Bergman kernel on forms: General theory.*

The goal of this talk is to explore the Bergman projection on forms. In particular, we show that some of most basic facts used to construct the Bergman kernel on functions, such as the boundedness of pointwise evaluation, fail for forms. We can, however, construct the Bergman kernel and explicitly compute the Bergman kernel on  $(0, n - 1)$ -forms. For the ball in  $\mathbb{C}^2$ , we also show that the size of the Bergman kernel on  $(0, 1)$ -forms is not governed by the control metric, in stark contrast to Bergman kernel on functions. (Received September 05, 2017)