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## Mean Holder Continuity, Area Integral Means and Extremal Problems

### Abstract

I will discuss mean Hölder continuity conditions for functions in Bergman spaces and the relation of these conditions with the growth of area integral means of derivatives of analytic functions. I will also discuss a result about mean Holder continuity of solutions of certain linear extremal problems in Bergman spaces that is similar to a result of Khavinson, McCarthy, and Shapiro (but with improved Holder exponent for  $1 < p < 2$ ). I will indicated some applications of this result.

Talk time: 07/21/2016 3:00PM— 07/21/2016 3:20PM

Talk location: Crow 204

Special Session: Harmonic analysis. Organized by K. Bickel.