

VANISHING BERGMAN KERNELS

ANTTI PERÄLÄ (UNIVERSITAT DE BARCELONA)

It is well-known that the Bergman kernels induced by standard weights have no zeroes. This property can be applied to solve extremal problems on p integrable Bergman spaces. For more general weights, it is perhaps surprising that (in a sense) the kernels usually have zeroes. In this talk we discuss some recent advances related to this topic, and present concrete examples of vanishing Bergman kernels. These examples might help understand extremal problems in cases when the kernels have zeroes.