

1056-35-2005 **Yifeng Yu*** (yyu1@math.uci.edu), Department of mathematics, University of California at Irvine, Irvine, CA 92697-3875. *A remark on C^2 infinity harmonic functions.*

In this talk, we will show that any nonconstant, C^2 solution of the infinity Laplacian equation $u_{x_i}u_{x_j}u_{x_ix_j} = 0$ can not have interior critical points. This result was first proved by Aronsson when the dimension is 2 and Evans for C^4 solutions in any dimension. (Received September 22, 2009)