1047-32-363   **David E Barrett*** (`barrett@umich.edu`), Math Dept. University of Michigan, 530 Church St., Ann Arbor, MI 48104-1043. *Duality between Hardy spaces on dual domains in complex projective space.* Preliminary report.

A smoothly bounded domain D in complex projective space is said to be *strongly $\mathbb{C}$-linearly convex* if the complex hyperplanes tangent to the boundary bD are disjoint from D and have minimal contact with bD. The dual D^* of such a domain is the open set in the dual projective space consisting of all complex hyperplaces disjoint from D; the dual domain D^* will also be smoothly bounded and strongly $\mathbb{C}$-linearly convex.

This talk will set out an invariant duality theory for Hardy spaces on bD and bD^*. Work in progress applying these results to Paley-Weiner theory will also be discussed. (Received February 02, 2009)