

1106-VK-2030 **Jim Cockreham*** (jcockreham@uidaho.edu). *The Metric Entropy of q -hulls and the Fractional Integral.*

This talk will present two new results. The first is an asymptotic result on the metric entropy of the q -hull of a precompact set K , where $0 < q < 1$. The second result is the metric entropy of $G_\alpha = \{I_\alpha f | f \in \mathcal{F}\}$, where I_α denotes the *fractional integral* and the entropy of the family \mathcal{F} is given. We will then apply this result to the family of *s -concave functions*. (Received September 15, 2014)