Richard Rochberg* (rr@math.wustl.edu), MO. A Metric from a Reproducing Kernel Hilbert Space. Preliminary report.

If $H$ is a reproducing kernel Hilbert space of functions on a set $X$ there are several ways that $H$ can be used to define a metric on $X$. One example is the metric which sets the distance between two points to be the operator norm of the difference of the projections onto the spans of the respective kernel functions. This metric arises, for instance, in giving sharp estimates for the modulus of continuity of the Berezin transforms of linear operators on $H$. I will present some results about this metric.

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