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**Mishko Mitkovski\*** (mmitkov@clemsn.edu) and **Aaron Flores Ramirez**. *Interpolation and sampling in reproducing kernel Hilbert spaces*. Preliminary report.

We will present some preliminary results about sampling and interpolation in a very general class of reproducing kernel Hilbert spaces. Our results include a general necessary density condition for sampling and interpolation which generalizes majority of the known density results. We will also present some sufficiency conditions for a more restricted class of reproducing kernel Hilbert spaces. (Received September 16, 2015)