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Cheng Cheng (cheng.cheng@knights.ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816, **Yingchun Jiang** (guilinjiang@126.com), Department of Mathematics, Guilin University of Electronic Technology, Guilin, Guangxi , Peoples Rep of China, and **Qiyu Sun*** (qiyu.sun@ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Sampling and Galerkin reconstruction in reproducing kernel spaces*. Preliminary report.

In this talk, I will introduce a pre-reconstruction operator associated with a sampling scheme, propose a quasi-optimal Galerkin reconstruction, and also present detailed analysis of the Galerkin method for reconstructing signals with finite rate of innovation. (Received August 05, 2014)