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Qiyu Sun* (qiyu.sun@ucf.edu), Department of Mathematics, University of Central Florida, Orlando, FL 32816. *Sparsity and spatial localization of spatially decaying systems*. Preliminary report.

In this talk, we consider how to measure sparsity and spatial localization of spatially decaying systems. We will develop Banach algebra technique to study their distributed sampling and optimal control. (Received September 15, 2014)