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**Linyuan Lu\*** (lu@math.sc.edu), Department of Mathematics, University of South Carolina, Columbia, SC 29208, and **Shoudong Man**. *Connected Hypergraphs with Small Spectral Radius*.

In 1970 Smith classified all connected graphs with the spectral radius at most 2. In this talk, we will generalize Smith's theorem to  $r$ -uniform hypergraphs. We discover a novel method for computing the spectral radius of certain hypergraphs, and classified all connected  $r$ -uniform hypergraphs with spectral radius small enough. (Joint work with Shoudong Man) (Received August 24, 2015)