1128-35-357 **Gustavo Hoepfner***, Universidade Federal de Sao Carlos, Sao Carlos, Brazil, and **Andrew Seth** Raich. Global L^q Gevrey Functions, Paley-Weiner Theorems, and the FBI Transform.

I will explore the relationship of global L^q Gevrey classes with the FBI transform and the Fourier transform. In particular, we show that Salem's example of a positive, compactly supported Radon measure that is supported on a set of Hausdorff dimension α , $0 < \alpha < 1$, and whose Fourier transform is an element of $L^q(\mathbb{R})$ for $q > 2/\alpha$. is also in the global L^q Gevrey classes. (Received March 01, 2017)