TEMPLE UNIVERSITY

Department of Mathematics

Analysis Seminar

Zoom meeting
Monday, March 29 2021, 2:30 p.m.

On the global Gevrey vectors
by Gustavo Hoepfner
Federal University of São Carlos

Abstract: We introduce the notion of global L^q Gevrey vectors and investigate the regularity of such vectors in global and microglobal settings. We characterize the vectors in terms of the FBI transform and prove global and microglobal versions of the Kotake-Narasimhan Theorem. As a consequence we provided a refinement of an earlier result by Hoepfner and Raich relating the microglobal wavefront sets of the ultradistributions u and Pu when P is a constant coefficient differential operator. This is a joint work with A. Raich and P. Rampazzo.