

Andreas Seeger

University of Wisconsin, Madison, USA

The Bianchini norm and a problem on mixing flows

The talk will be about results related to Bressan's mixing problem. We establish an inequality for the change of the Bianchini semi-norm of characteristic functions under the flow generated by a divergence free time dependent vector field. The approach leads to a bilinear singular integral operator for which we prove bounds on Hardy spaces. This is joint work with Mahir Hadžić, Charles Smart and Brian Street.