Anna L. Mazzucato* (alm24@psu.edu) and David M. Ambrose. On global existence and analyticity for the 2D Kuramoto-Sivashinsky equation.

I will discuss recent results concerning the Kuramoto-Sivashinsky equation in two space dimensions with periodic boundary conditions. In particular, I will present a global existence result in the Wiener algebra, when growing modes are absent, and bounds on the analyticity radius when the data is only $L^2$. (Received August 19, 2019)