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Anna L Mazzucato*, Penn State University, University Park, PA 16802. *On the two-dimensional 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 . This is joint work with David Ambrose (Drexel University). (Received September 11, 2018)