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**Maxime Murray\*** (mmurray2016@fau.edu), 3149 millwood terrace, apt 221, Boca Raton, FL 33431. *Unstable Manifold attached to periodic solutions of the Kuramoto-Sivashinsky equation*. Preliminary report.

In this talk, I will review the Parameterization method and its application in the case of unstable manifolds attached to periodic solutions of the Kuramoto-Sivashinsky partial differential equation. I will expand on the choice of basis function required to compute the sought after parameterization and its associated validation using a contraction mapping argument. (Received January 08, 2021)