

# TEMPLE UNIVERSITY

Department of Mathematics

## Analysis Seminar

Zoom meeting

Monday, November 15 2021, 2:30 p.m.

*Traveling waves close to the Couette flow*

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Abstract: In this talk we shall study the existence of smooth traveling waves close to the Couette flow for the 2D incompressible Euler equation for an ideal fluid. It is well known that this kind of solutions do not exist arbitrarily close to the Couette flow if the distance is measured in  $H^{3/2+}$ . In this presentation we will deal with the case  $H^{3/2-}$ .