

1134-35-355

John K Hunter*, Department of Mathematics, University of California at Davis, Davis, CA 9516, and **Jingyang Shu**. *SQG Fronts*.

We derive regularized contour dynamics equations for the motion of infinite sharp fronts in the surface quasi-geostrophic (SQG) equations, and prove a short-time, weak well-posedness result for a cubic approximation of the contour dynamics equations. (Received September 11, 2017)