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Susan Friedlander* (susanfri@usc.edu) and **Walter Rusin** (walter.rusin@okstate.edu).

On the second iterate for active scalar equations.

We consider an iterative resolution scheme for a class of active scalar equations with a fractional power of the Laplacian and focus our attention on the second iterate. In the case of critical diffusivity, we extract information relevant to well-posedness questions in scale invariant spaces. (Received September 10, 2013)