1114-35-352   **Hongwei Gao*** (`hongweig@uci.edu`), Department of Mathematics, UC, Irvine, Irvine, CA 92697. *Strain Induced Slowdown of Front Propagation in Random Shear Flow via Analysis of G-equations.*

It is proved that for the 2-dimensional case with random shear flow of the G-equation model with strain term, the strain term reduces the front propagation. Also an improvement of the main result by Armstrong-Souganidis is provided. (Received September 01, 2015)