1104-35-66   **Stefan Steinerberger*** (`stefan.steinerberger@yale.edu`), Department of Mathematics, Yale University, P.O. Box 208283, New Haven, CT 06520-8283. *Dispersion dynamics of the defocusing generalized Korteweg - de Vries equation.*

The defocusing generalized KdV is an evolution equation on the real line. H^1 initial data stays in H^1 and the L^2-norm is conserved. We are interested in the behavior of the solution: in contrast to the focusing KdV, which has traveling waves solutions, there is no reason to assume that any small interval will contain, say, 10% of the entire L^2 mass for a long time: things should spread out. We give some results in that direction, which complement earlier results of Tao and improve recent results of Kwon & Shao. (Received August 19, 2014)