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Fei-Ran Tian* (tian@math.ohio-state.edu), Department of Mathematics, The Ohio State University, 231 W. 18th Avenue, Columbus, OH 43210. *The large time behavior of the zero dispersion limit of the higher order KdV.*

We study the zero dispersion limit of the higher order KdV when time is sufficiently large. For generic initial data, we show that the limit is of single phase over a finite spatial interval for large times. Outside the interval, the limit is of zero phase. (Received February 14, 2006)