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King-Yeung Lam and **Yuan Lou***, Department of Mathematics, Ohio State University, Columbus, OH 43210, and **Frithjof Lutscher** and **Peng Zhou**. *Dispersal in advective environments*.

We consider some mathematical models in one-dimensional advective environments. Individuals are exposed to unidirectional flow, with the possibility of being lost through the boundary. We will investigate the persistence and range of a single species. When the diffusion and advection rates are small and comparable, we determine some criterion for the existence of evolutionarily stable dispersal strategies (Received January 07, 2015)