1146-35-146   **Robert Pego*** (`rpego@cmu.edu`). *Weakly singular shock profiles for a regularized shallow water system.*

For a conservative regularization of the shallow water equations, recently derived by D. Clamond and D. Dutykh and related to Green-Naghdi models, we establish the existence of weakly singular traveling waves and prove that derivatives can develop singularities. This is joint work with Yue Pu, Denys Dutykh, Didier Clamond and Jian-Guo Liu. (Received January 17, 2019)