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Charis Tsikkou* (tsikkou@math.wvu.edu). *Singular Shocks in a Chromatography Model.*

We consider a system of two equations that can be used to describe nonlinear chromatography and produce a coherent explanation and description of the unbounded solutions (singular shocks) that appear in Mazzotti's model. We use the methods of Geometric Singular Perturbation Theory, to show existence of a viscous solution to Dafermos-DiPerna regularization. (Received September 12, 2016)