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Heather Rosenblatt* (rosenblatt@math.ohio-state.edu), Department of Mathematics, The Ohio State University, 231 West 18th Ave, Columbus, OH 43210, and **Xing Liu, Hyejin Park** and **Saleh Tanveer** (tanveer@math.ohio-state.edu), Department of Mathematics, The Ohio State University, 231 West 18th Ave, Columbus, OH 43210. *Rigorous Computation of Stokes Constant in problems with parameters.*

We introduce a mathematically rigorous method of calculating Stokes constant in a nonlinear problem containing parameters. In particular, we show how such computations help in a rigorous theory for selection of finger width in steady viscous fingering. (Received September 24, 2012)