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Tarek M Elgindi*, 251 Mercer Street, New York, NY 10012, and **Frederic Rousset**. *Global Regularity for Oldroyd-B type models.*

We investigate some critical models for visco-elastic flows of Oldroyd-B type in dimension two. We use a transformation which exploits the Oldroyd-B structure to prove an L^∞ bound on the vorticity which allows us to prove global regularity for our systems. (Received September 12, 2013)