Joan Lind* (jlind@utk.edu) and Huy Tran. Regularity of Loewner Curves.

The Loewner equation encrypts a growing simple curve in the plane into a real-valued driving function. We show that if the driving function is in $C^{\beta}$ with $\beta > 2$ then the Loewner curve is in $C^{\beta + \frac{1}{2}}$. This extends a result of Carto Wong who proved the statement for $1/2 < \beta \leq 2$. (Received January 20, 2015)