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Alexander Kiselev* (kiselev@rice.edu), Department of Mathematics, Rice University, 6100
Main street, MS 136, Houston, TX 77005. *Regularity, blow up, and small scale creation in fluids.*

I will describe a recent sharp result on the rate of creation of small scales in the solutions of the 2D Euler equation. I will also indicate connection with well known open questions in three dimensions, and discuss simplified models for which rigorous results are available. (Received September 12, 2014)