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Jonatan Lenells* (jonatan@maths.lth.se), Department of Mathematics, Lund University, PO Box 118, S-22100 Lund, Sweden. *The Hunter-Saxton Equation: A Geometric Approach.*

We present some novel ideas related to the geometric interpretation of the Hunter-Saxton equation as the Euler equation describing the geodesic flow on an infinite-dimensional homogeneous space. (Received February 08, 2006)