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Benoit Pausader* (benoit.pausader@math.brown.edu), Providence, RI 02912, and **Yan Guo** and **Klaus Widmayer**. *On long time existence for small solutions to Euler-Coriolis.*

This is a joint work with Klaus Widmayer and Yan Guo. We consider the Incompressible Euler equation on \mathbb{R}^3 with a Coriolis force. For small smooth and localized solutions which are axisymmetric, we prove long time existence. This is done by using the dispersive effect of rotating fluids. (Received January 11, 2021)