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Angel Castro, Diego Cordoba and **Javier Gomez-Serrano***, 610 Fine Hall, Washington Road, Princeton, NJ 08544. *Existence and regularity of rotating global solutions for the generalized surface quasi-geostrophic patches.*

In this talk we will discuss the existence of C^∞ convex global rotating solutions for the generalized surface quasi-geostrophic patch equation. Joint work with Angel Castro and Diego Cordoba. (Received February 24, 2015)