

1038-35-126

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In this talk we will present a regularity criterion for weak solutions of the dissipative quasi-geostrophic equations. We remark that the result extends the regularity criterion of Constantin and Wu to scaling invariant spaces.

After we give a short overview of the known results concerning the 2D quasi-geostrophic equations, we will present a sketch of the proof of the regularity criterion. (Received February 04, 2008)