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Nicola Garofalo* (rembrandt54@gmail.com) and **Xavier Ros-Oton**. *Structure and regularity of the singular set in the obstacle problem for the fractional Laplacian*. Preliminary report.

I will present some new results on the structure and regularity of the singular free boundary in the obstacle problem for the fractional Laplacian. One essential ingredient is a new one-parameter family of Monneau type monotonicity formulas.

This is joint work with Xavier Ros-Oton. (Received August 18, 2016)