

Obstacle problems for integro-differential operators

XAVIER ROS-OTON

University of Texas at Austin, USA

We study obstacle problems for a general class of elliptic integro-differential operators. Our main result establishes the optimal $C^{1,s}$ regularity of solutions, and the $C^{1,\alpha}$ regularity of the free boundary near regular points.

This is a joint work with Luis Caffarelli and Joaquim Serra.