

# OPTIMAL REGULARITY AT THE FREE BOUNDARY FOR THE INFINITY OBSTACLE PROBLEM

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The talk, which is based on joint work with Julio Rossi (Alicante, Spain) and Eduardo Teixeira (Fortaleza, Brazil), concerns the obstacle problem for the infinity Laplacian. The main results to be presented are a characterization of the solution through comparison with cones that lie above the obstacle and the sharp  $C^{1, \frac{1}{3}}$ -regularity at the free boundary.