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Zheng Hao, Kansas State University

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The obstacle problem for elliptic operators in divergence form

Abstract. We describe how we have developed the theory for the divergence form version of the obstacle problem with coefficients in VMO, including existence, uniqueness, nondegeneracy, optimal regularity, and measure stability. In fact, we now even have a stronger version of Caffarelli's regularity theory than Blank and Teka proved, as we can show that the free boundary is a Reifenberg Vanishing set near regular points. This talk is based on joint work with Blank.