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Hongjie Dong* (hongjie_dong@brown.edu), 182 George Street, Providence, RI 02912. *Elliptic equations in polygonal domains with discontinuous coefficients.*

I shall present some recent results about the W_p^2 estimate up to the boundary for second-order elliptic equations in polygonal domains with discontinuous leading coefficients. (Received January 15, 2011)