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Xiaosheng Li* (xli@fiu.edu), Department of Mathematics and Statistics, Florida International University, Miami, FL 33199. *Inverse problems with partial data in unbounded domains.*

The inverse boundary value problems consist of recovery of the coefficients of the partial differential equations in a domain from measurements of the solutions on its boundary. Recently, the inverse problems with incomplete data, where the measurements are made on only part of the boundary, have received many attentions. In this talk we survey the recent developments on such problems in unbounded domains, particularly, in a half space and in an infinite slab. (Received January 18, 2012)