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Xiaosheng Li* (xli@fiu.edu), Department of Mathematics and Statistics, Florida International University, Miami, FL 33199. *Inverse Boundary Value Problems in a Slab.*

In this work we consider the inverse boundary value problems for Schroedinger equations with Yang-Mills potentials in the domain of infinite slab type. We prove that the potentials can be determined uniquely up to a gauge equivalent class, assuming that only partial measurements are known on the boundary hyperplanes. (Received January 18, 2011)