1099-47-122
Injo Hur\* (ihur@math.ou.edu), Department of mathematics, University of Oklahoma, Norman, OK 73019, Matt McBride, Department of Mathematics, University of Oklahoma, Norman, OK 73019, and Christian Remling, Department of Mathematics, University of Oklahoma, Norman, OK 73019. The Marchenko representation of reflectionless Jacobi and Schrödinger operators.

We consider Jacobi matrices and Schrödinger operators that are reflectionless on an interval. We give a systematic development of a certain parametrization of this class, in terms of suitable spectral data, that is due to Marchenko. Then some applications of these ideas are discussed. (Received February 07, 2014)