

Meeting: 999, Nashville, Tennessee, WEIKARD, Invited Address

999-34-4 **Rudi Weikard*** (rudi@math.uab.edu), Department of Mathematics, University of Alabama at Birmingham, Birmingham, AL 35294-1170. *Inverse problems for Sturm-Liouville equations.*

An overview of the inverse spectral and inverse scattering theory of Sturm-Liouville equations, in particular, the one-dimensional Schrödinger equation, will be given. There will be some emphasis on the inverse resonance problem including a discussion of practical aspects of recovery. The talk will also present some results on inverse problems for Jacobi operators and operators on trees. (Received August 13, 2004)