1125-39-715   **Rudi Weikard***, Department of Mathematics, University of Alabama at Birmingham, Birmingham, AL 35226. *Stability for the inverse resonance problem for the CMV operator.*

For the class of unitary CMV operators with super-exponentially decaying Verblunsky coefficients we treat the inverse resonance problem of reconstructing the operator from its resonances - the zeros of the Jost function. We establish a stability result for the inverse resonance problem that shows continuous dependence of the operator coefficients on the location of the resonances.

This joint work with Roman Shterenberg and Maxim Zinchenko. (Received September 09, 2016)