



# FMSP Lectures

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The discrete Schrodinger equation for  
compact support potentials

December 16 (Monday) 15:30 ~ 16:30 Room 056

*Abstract:*

We consider the exact form of the Jost solutions of the discrete Schrodinger equation for arbitrary potentials with compact support. Remarkably, these solutions may be written in terms of certain explicitly defined polynomials in the non-trivial values of the potential. These polynomials also arise in the work of Yamada (2000) in connection with a birational representation of the symmetric group.

Applications of this approach to the udKdV are also discussed.