

1086-35-1729

Julian K Edward* (edwardj@fiu.edu), Department of Mathematics, Florida International University, Miami, FL 33199. *Inverse problems for strings with attached masses*. Preliminary report.

We consider the inverse problems associated to the following two systems:

(i) for a string loaded by several masses and (ii) for a star-graph of strings with a mass at a center. The boundary control method is used to recover the number of strings, together with their density and length, and the masses.

The talk is based on joint work with Sergei Avdonin and Nina Avdonina. (Received September 24, 2012)