

1129-35-347

Francis J Chung*, fj.chung@uky.edu. *Elliptic inverse boundary problems and control.*

In a typical inverse boundary problem, we are given information about the boundary values of the solution to an equation, and asked to recover the coefficients of the equation on the interior. Solving the problem usually requires a control theory type result – we need to understand how to control solutions inside the domain using the boundary values. In this talk I will give a brief introduction to this connection, and give some examples of recent results in this area. (Received March 20, 2017)