

淡江大學數學系演講公告

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題 目：Inverse Sturm-Liouville problem with analytical functions in the boundary condition

日 期：110 年 5 月 13 日 (星期二)

時 間：下午 14:10 開始

地 點：駱先紀念科學館 S433 室

摘要 Abstract:

We consider the eigenvalue problem for the Sturm-Liouville equation with the Dirichlet boundary condition at the left end of the interval and with the boundary condition containing arbitrary analytical functions of the eigenparameter at the right end. The inverse problem, which consists in recovering the Sturm-Liouville potential from a part of the spectrum, will be analysed. We will discuss necessary and sufficient conditions of uniqueness and a constructive solution of this problem, its global solvability, local solvability, and stability. In addition, applications of this problem to studying partial inverse problems on intervals and on graphs, and also to the inverse transmission eigenvalue problem will be considered.

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