

淡江大學數學系演講公告

主講人：Natalia Bondarenko (Department of Applied Mathematics and Physics , Samara National Research University)

題 目：Inverse problems for the fourth-order differential operators

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時 間：下午 16:10 開始

地 點：科學館 S433

摘要 Abstract:

In this talk, we will consider two inverse spectral problems for the fourth-order differential operators. The first problem was introduced by Barcilon in 1974 and consists in the recovery of the differential operator coefficients from three spectra. The second problem was introduced by McLaughlin in 1982 and consists in the recovery of the operator from the spectrum and the two sets of weight numbers. Although these problems started to be investigated in 1970-1980, there were no rigorous uniqueness results for them. In this talk, we will prove the uniqueness theorems for Barcilon's and McLaughlin's inverse problems by using the general inverse problem theory for higher-order differential operators created by Yurko.

備 註：本業務與聯合國永續發展目標 SDG4 優質教育連結

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