

國立高雄大學應用數學系

103 學年度第 2 學期碩士學位考試口試時間表(四)

The Study of Linear Transformations between Abstract Wiener Spaces

學生姓名：陳信森 (M1014109)

口試時間：104 年 7 月 30 日 (四) 11 : 00~11 : 40

口試地點：國立高雄大學理學院 450 室

摘 要：

In this study report, we will present a description concerning linear transformations on an abstract Wiener space. Let (i, H, B) be an abstract Wiener space, and T a linear transformation from the Banach space B into another Banach space B_1 . We will prove that the $\|\cdot\|_{B_1}$ -norm on B_1 is measurable on the image Hilbert space $T(H)$ with respect to the norm induced by the inner product on H . As an application, a relationship between Brownian motion and Brownian bridge will be also given.