

國立中央大學數學系

專題演講

主 講 人：劉之中教授（成功大學數學系）

演講題目：Gauge Theory and Dualities

演講茶會：2024年05月16日(星期四) 3:30 p.m. ~ 4:00 p.m.

茶會地點：中央大學鴻經館M306

演講時間：2024年05月16日(星期四) 4:00 p.m. ~ 5:00 p.m.

演講地點：中央大學鴻經館M107

Abstract :

The well known Maxwell's equations in classical electro-magnetirsm give rise to gauge theory with profound mathematical values, especially in the theory of vector bundles. An obvious property in Maxwell's equations is the dual correspondence of electric and magnetic field by a sign. Such a correspondence can be generalized in the form of "gauge groups" and "dual gauge groups". We give a brief overview of this correspondence, and describe how they gradually evolve into the theory of Hitchin moduli spaces.