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# Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

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**講題** A brief introduction to Riemann-Roch theorem (II)

**講者** 張華炘

**時間** 2022.11.04 (Fri) 13:00 – 14:00

**地點** 綜三 631

## Abstract

This is the second part of the talk on the Riemann-Roch theorem on compact Riemann surfaces. In this talk, I will introduce some basic topics about divisors on compact Riemann surfaces and then state the Riemann-Roch theorem and Serre duality. After that, I will give two applications of the Riemann-Roch theorem, which are the classification of compact Riemann surfaces and the computation of the dimension of Moduli space of pseudo-holomorphic curves.