

---

# Student Geometry Seminar

國立清華大學數學系 學生幾何研討會

---

**講題** Classification of effective Hamiltonian  $S^1$ -actions with finite fixed points on  $CP^2$

**講者** 胡喬晏 (理論中心)

**時間** 2023.10.19 (Thu) 17:30 – 18:30

**地點** 綜三 201

## Abstract

In this talk, I would like to share the result of my master thesis under the supervision of Prof. Mei-Lin Yau. We classify the effective Hamiltonian  $S^1$ -actions with finite fixed points on  $CP^2$ . Building upon Professor Y. Karshon's foundational work on 'Periodic Hamiltonian Flows on Four Dimensional Manifolds', our investigation leads to a significant conclusion: every such action can be symplectomorphically mapped to a standard linear case.

