
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)

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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.

