

國立中山大學應用數學系

學術演講

講者：賴冠文 博士（中央研究院）
講題：K3 surfaces, sporadic groups, and derived automorphisms
時間：2024/3/8（Friday） 2:10 pm ~ 3:00 pm
地點：理學院四樓理 SC 4009-1 室
茶會：1:45 pm 於理 SC 4010 室（系辦公室）

Abstract

It is known that every subgroup of the Mathieu group M_{23} , one of the sporadic finite simple groups, appears as a subgroup of automorphisms of a K3 surface. This result was established by Mukai in 1988 and then extended to the “derived” setting by Huybrechts in 2016. Conversely, when given a specific K3 surface, it is generally unknown which finite subgroups can possibly appear in its derived automorphism group. This talk will be a gentle introduction to the works of Mukai, Huybrechts, as well as my work with Yu-Wei Fan on an answer to the classification question for generic K3 surfaces.

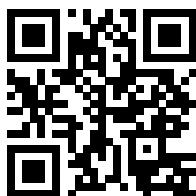
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