

國立中山大學應用數學系

學術演講

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講題：Spatial entanglements: classification, symmetry and application

時間：2021/11/25 (Thursday) 15:30 ~ 16:30

地點：理 SC4009-1 教室

茶會：15:00

Abstract

The talk takes us on a visual journey through the world of spatial entanglements. We go through some recent research focuses in handlebody-link classification and symmetry; along the way, how the theory of spatial entanglements can be applied to real life problems is presented.

Handlebody-links are embedded three dimensional bodies in three-space; they generalize the classical theory of knots and links, and are closely linked to spatial graph theory.

Handlebody-link classification is often done by tabulating them from the simplest one to more complicated ones. While knot tabulation has a long history of well over a hundred year, tabulation works on handlebody-links begin just this century; recent progress in this research area is the main topic of the first part of the talk. Thinking of handlebody-links as objects of a category, we can take our classification to the next level, and ask for a classification of morphisms between them, that is, homeomorphisms preserving handlebody-links. This leads us to the notion of symmetry groups, the main theme of the second part. The third part concerns applications of spatial entanglement in other fields, notably in 2D time series analysis.

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