



THE HONG KONG UNIVERSITY OF SCIENCE & TECHNOLOGY

Department of Mathematics

SEMINAR ON PURE MATHEMATICS

Rigidity of convex polytopes under the dominant energy condition

by

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Abstract

In this talk, we will discuss a rigidity theorem for initial data sets associated with convex polytopes, subject to the dominant energy condition. To prove the theorem, we employ a technique that entails approximating the target polytope using smooth convex domains and subsequently tackling a boundary value problem involving Dirac operators on these smooth domains. This is a follow-up work of Brendle's recent result.

Date : 24 August 2023 (Thursday)

Time : 4:00pm

Venue : Room 4503 (Lifts 25-26)

All are Welcome!