

Introduction to Knot Theory and 3-manifold Topology

Time | 2024.6.17~7.26
Every Monday,
Wednesday and Friday
14:00-16:00

Venue | Room 509,
Cosmology Building,
NTU

Outline & Descriptions

Introduction to knot theory:

- (1) Fundamentals of knots and links
- (2) Seifert surfaces and Alexander polynomial
- (3) Jones polynomial
- (4) Dehn surgery

Introduction to 3-manifolds:

- (1) Dehn's lemma and loop theorem, sphere theorem, and their applications
- (2) Heegaard splittings and connected sum decomposition
- (3) Seifert fibered manifold

Speaker

C. Michael Tsau
曹志誠
Saint Louis University

Organizer

Mao-Pei Tsui
崔茂培
National Taiwan
University

Background & Purposes

Laying the foundation for the study of knots and 3-manifolds, and introducing new knowledge on current research on these areas.

Prerequisites

Topology and algebraic topology including some knowledge of homology, homotopy and presentation of group.

Contact

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Registration

