Taiwan 2 24 Spring Mathematics School



新學期學分課程上線預告!

Differential Forms in Algebraic Topology



More information

代數拓撲中的微分形式



Every Tuesday and Thursday, 10:20-11:10, 11:20-11:45, February 20 - May 30, 2024

Room 515, Cosmology Building, NTU

Speaker

Loring Tu 杜武亮 (Tufts University)

Organizers

National Taiwan University Jungkai Chen Yng-Ing Lee National Taiwan University & NCTS

Course Background & Purposes

This course presents a simplified approach to advanced topics in algebraic topology, at the expense of ignoring torsion phenomena.

It teaches constructions and techniques such as de Rham cohomology, presheaves, Čech cohomology, and spectral sequences that are useful in a variety of fields including algebraic topology, algebraic geometry, and differential geometry.

Continuum Mechanics 連體力學

More information



Every Wednesday, 15:30-17:00 Every Thursday, 15:30-17:00 February 21 - May 30, 2024

R440, Astronomy-Mathematics Building, NTU

Speaker I-Liang Chern 陳宜良 IAMS, NTU

Organizers

Yng-Ing Lee 李瑩英 National Taiwan University

Course Background & Purposes

Continuum Mechanics studies motions of continuum materials. In this course, I will cover fluids, elasticity, and plasticity. It is designed for graduate students to have a global picture of continuum mechanics from the perspectives of classical field theory and differential geometry. I will take three approaches: Newton, Lagrange, and Hamilton, both in Lagrangian and Eulerian coordinate frames of references. Thus, variational principles of fluid mechanics and solid mechanics, Hamiltonian Fluid Mechanics, Hamiltonian Elasticity will be studied.