

## 제2회 고등과학원 수학회 동문학술상 수상 기념 특별강연

### Title & Abstract

2024년 12월 23일(월)

15:30~16:00 특별강연1

최범준 (POSTECH)

#### Singularity formation in geometric flows

Singularities are central to understanding geometric flows, such as mean curvature flow and Ricci flow. Recent achievements rely on refined asymptotics to clarify how they look like and how flows can “pass through” these singular points. In this talk, I will highlight two results: the classification of ancient bubble-sheet ovals in mean curvature flow, and a new characterization of weak Ricci flow solutions via Brownian motion.

16:10~16:40 특별강연2

오정석 (서울대학교)

#### Counting curves, differentiable structures and holomorphic structures

Euler number is a topological invariant of a space. For instance, the Euler number of real 2-dimensional sphere is 2. Counting geometric objects is the Euler number of the space of all such geometric objects. I would like to explain what enumerative geometers are still doing with Euler numbers, Euler classes in algebraic geometry.