

# 大阪大学ミラー対称性セミナー

日時：2024年5月21日(火) 10:30 – 12:00

場所：大阪大学理学部 E404 号室（対面のみ）

**講演者:** 任 鑫（大阪大学）

## タイトル:

q-rationals and the 2-CY category of type  $A_2$

Part 1: Braid group actions and 2-CY category of type  $A_n$

## アブストラクト:

Let  $q$  be a formal parameter. The left and right  $q$ -deformed rational numbers were introduced by Bapat, Becker and Licata via regular continued fractions, and the right  $q$ -deformed rational number is exactly  $q$ -deformed rational number considered by Morier-Genoud and Ovsienko. They gave a homological interpretation for left and right  $q$ -deformed rational numbers. Our goal is to provide an understanding of the above definitions and related results.

In the first part, we will talk about the following.

- (1) The definition of the 2-CY category of type  $A_n$  (denote by  $\mathcal{C}_n$ );
- (2) Spherical twist functor on  $\mathcal{C}_n$  and how to compute it;
- (3) Braid relation of Spherical twist functor.

**世話人:** 高橋 篤史, 三浦 真人, 真鍋 征秀, 松本 圭峰（全て大阪大学）