

# 大阪大学ミラー対称性セミナー

日時：2024年6月11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 3: Spherical objects on  $\mathcal{C}_2$  and rational numbers

## アブストラクト:

(前回までと共通です。内容は前回の続きです。)

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 second part, we will talk about the following.

- (1) Some examples on the 2-CY category of type  $A_2$  (denote by  $\mathcal{C}_2$ );
- (2) Braid group actions on  $\mathbb{Q} \cup \left\{ \frac{1}{0} \right\}$  via  $\mathrm{PSL}(2, \mathbb{Z})$
- (3) The definition of  $q$ -deformed rational numbers.

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