

RFCMP2025-A

Report of Contributions

Contribution ID: 1

Type: **not specified**

Symmetric Monoidal (∞, n) -categories

Wednesday 24 September 2025 10:00 (1h 30m)

Presenter: AKASAKA, Keima (Chiba University)

Contribution ID: 2

Type: **not specified**

The (∞, n) -category of Bordisms and Topological Quantum Field Theory

Wednesday 24 September 2025 13:00 (1h 30m)

Presenter: AKASAKA, Keima (Chiba University)

Contribution ID: 3

Type: **not specified**

ADHM 構成法入門

Wednesday 24 September 2025 15:00 (1h 30m)

Presenter: HAMANAKA, Masashi (Nagoya University)

Contribution ID: 4

Type: **not specified**

ADHM 構成法の **D** ブレーン解釈

Wednesday 24 September 2025 17:00 (1h 30m)

Presenter: HAMANAKA, Masashi (Nagoya University)

Contribution ID: 5

Type: **not specified**

Anomaly cancellation in superstring theory: a review

Thursday 25 September 2025 10:30 (1h 30m)

本講演は英語で実施されます.

Presenter: TACHIKAWA, Yuji (Kavli IPMU)

Contribution ID: 6

Type: **not specified**

Anomaly cancellation in superstring theory: a review

Thursday 25 September 2025 13:00 (1h 30m)

本講演は英語で実施されます.

Presenter: TACHIKAWA, Yuji (Kavli IPMU)

Contribution ID: 7

Type: **not specified**

TBA

Thursday 25 September 2025 15:00 (1h 30m)

Presenter: NATORI, Masaki (Tokyo University)

Contribution ID: 8

Type: **not specified**

TBA

Thursday 25 September 2025 17:00 (1h 30m)

Presenter: NATORI, Masaki (Tokyo University)

Contribution ID: 9

Type: **not specified**

Introduction to factorization algebras

Friday 26 September 2025 10:00 (1h 30m)

Presenter: NISHINAKA, Yusuke (Nagoya University)

Contribution ID: 14

Type: **not specified**

Factorization envelopes and enveloping vertex algebras

Friday 26 September 2025 13:00 (1h 30m)

Presenter: NISHINAKA, Yusuke (Nagoya University)

Contribution ID: 15

Type: **not specified**

Anomaly cancellation in superstring theory: a review

Anomalies in superstring theories are known to cancel via subtle mechanisms. We begin with the standard perturbative anomaly cancellation, which works uniformly across all theories.

We then move on to the discussion of the global anomaly cancellation, whose mechanism varies depending on the type of superstring theories in question.

Author: TACHIKAWA, Yuji (Kavli IPMU)

Contribution ID: 16

Type: **not specified**

Introduction to (∞, n) -categories

The goal of my two-part lecture series is to explain the definition of a (framed) topological quantum field theory (TQFT). A TQFT is defined as a symmetric monoidal functor from the (∞, n) -category $\text{Bord}_n^{\text{fr}}$ of framed bordisms.

In the first lecture, we will introduce the foundational concepts of (symmetric monoidal) (∞, n) -categories, setting the stage for the study of TQFTs.

In the second lecture, we define the (∞, n) -category $\text{Bord}_n^{\text{fr}}$ and introduce TQFTs.

Finally, we discuss the Cobordism Hypothesis, a remarkable result asserting that a TQFT is determined entirely by its value on a point.

Author: AKASAKA, Keima (Chiba University)