



# 2025年度第11回

広島大学極限宇宙研究拠点セミナー

Hiroshima University CORE-U Seminar

**Speaker: 飯田 圭 教授 (放送大学)**

**Professor Kei Iida (The Open University of Japan)**

**Title: Probing dense matter with cold atom quantum simulation**

**Date : 2nd. Dec.2025 (Tue.) (14:35-16:05)  
2025年12月2日(火) (14:35-16:05)**

**Place: 広島大学理学部E002教室 (ハイブリッド)**

**Room E002, Faculty of Science, Hiroshima University**

**Language Oral in Japanese & the slides are in English**

**Abstract: See the back side of this poster**

**Teams Link:**

[2025年度第11回core-u seminar 飯田 圭 教授 professor Kei Iida | 会議に参加 | Microsoft Teams](#)

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共同セミナーとしての認定は対面のみとします。出欠はセミナー終了時にE002で確認します。

Please note that joint seminar credits cannot be double-counted with intensive course credits.

Certification for the joint seminar is limited to in-person attendance only.

Attendance will be confirmed at the room E002 after the seminar.

Please bring the seat of the paper for the signature.

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広島大学極限宇宙研究拠点 (Core-U) セミナー 世話人

山口頼人、水野恒史、両角卓也

Organizers : Yorito Yamaguchi, Tsunefumi Mizuno, Takuya Morozumi

## Abstract

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The observation of gravitational waves from a neutron star merger provides useful information on the equation of state of dense matter in the star, but many other properties of the matter remain to be clarified. Here I would like to talk about how to approach nuclear and quark matter from quantum simulations based on ultra cold atoms.