



# 第85回(2023年度第5回)

広島大学極限宇宙研究拠点

Hiroshima University CORE-U Seminar

**Titles : Phenomenological implication of flavor symmetry**

**Speaker: 山本 恵 氏 (広島工業大学)**

**Dr. Kei Yamamoto (Hiroshima Institute of Technology)**

**Date : 22<sup>nd</sup>.Feb.2024 (Thu) (14:35-16:05)**

**2024年2月22日(木) (14:35-16:05)**

**Place: 広島大学先端研401N教室 (対面形式)**

**Room 401N, The graduate school of advanced science of matter(in person)**

**Language 日本語 (Japanese) スライド (Slides in English)**

**Abstract**

The electric and magnetic dipole moments of the electron and the muon are low-energy probes of New Physics (NP) beyond the Standard Model (SM). The recent experimental measurement of the anomalous magnetic moment of the muon has indicated the discrepancy with the SM prediction. The long-standing muon  $g-2$  anomaly might be a hint for new physics.

In this seminar, after brief review of  $U(2)$  flavor symmetry, I will discuss the interplay of NP among the lepton magnetic moment, the lepton flavor violation (LFV) and the electron electric dipole moment (EDM) in light of recent data of the muon  $g-2$ , in the SMEFT with the  $U(2)$  flavor symmetry.

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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 (morozumi (at) Hiroshima-u.ac.jp)

Organizers : Yorito Yamaguchi, Tsunefumi Mizuno, Takuya Morozumi (contact person)

**共同セミナーの出欠はセミナー終了時に取ります。**

**The participation of collaboration seminar will be checked after the talk.**