

第85回(2024年度第01回) 極限宇宙研究拠点セミナー (the 1st Core-U Seminar in 2024)

日時 : 2024年05月02日(木)16 : 30-17:30 Date/Time: 2nd/May (Thu.)/2024 16:30-17:30

形式 : 理学部C212 & Zoom Format: Faculty of Science, C212+online (zoom)

講師 (Speaker) : Norbert Werner, Masaryk University (Czech Republic) and Hiroshima University (Japan)

題目(Title)

QUVIK: QUICK ULTRA-VIOLET KILONOVA SURVEYOR

概要(Abstract)

After briefly summarising the results of the gamma-ray burst detectors on the GRBAIpha and VZLUSAT-2 CubeSats, I will present the status and summarise the science case of the Quick Ultra-Violet Kilonova surveyor—QUVIK mission. QUVIK is an ultra-violet (UV) space telescope on an approximately 130 kg small satellite with a moderately fast re-pointing capability and a real-time alert communication system, approved for a Czech national space mission. The satellite, which is expected to launch in five years, will provide key follow-up capabilities to increase the discovery potential of gravitational wave observatories and future wide-field multi-wavelength surveys. The primary objective of the mission is the measurement of the UV brightness evolution of kilonovae, resulting from mergers of neutron stars, to distinguish between different explosion scenarios. The mission, which is designed to be complementary to the Ultraviolet Transient Astronomy Satellite—ULTRASAT, will also provide unique follow-up capabilities for other transients both in the near- and far-UV bands. Between the observations of transient sources, the satellite will perform observations of other targets of interest for the scientific community, such as stars, stellar systems, and galactic nuclei.

Zoom link :

<https://us06web.zoom.us/j/6856856345?pwd=yy1PoUaJFzvDp0elfF9aH1JlJUElSK.1&omn=87110760851>

Meeting ID: 6856856345

Passcode: 314159

本セミナーは共同セミナー（理工学融合共同演習）の対象です。理工学融合プログラムの専門科目、または他プログラムの専門科目として単位認定を受ける人は05月01日(水)までに水野

(mizuno@astro.hiroshima-u.ac.jp) あてに氏名および学生番号をメールで連絡して下さい

* 出席確認は、講演終了時、質疑応答前に行います。現地参加者はC212で確認し、オンライン参加者は司会のアナウンスに応じZoomチャット機能で水野に学籍番号と名前を送ってまいります

* セミナー終了後、5/13月曜一杯までに水野（居室：理学部B203）にサインをもらいに行くこと。

「広島大学 極限宇宙研究拠点 (Core-U) セミナー」世話人 両角卓也, 山口頼人, 水野恒史

問合せ先 : e-mail: mizuno@astro.hiroshima-u.ac.jp