

## 2022年度冬季地球惑星科学専攻博士論文提出審査会プログラム

2022.10.31

日時: 11月1日(火)、2日(水)、4日(金)

&lt;注意&gt;

○発表35分、質疑応答15分。発表者は論文の要約(A4 1~2枚程度)を10/28までに所定URLにアップロード提出すること。

## 11月1日(火)

宇宙惑星科学グループ		105講義室		
開始	-	終了	発表者	タイトル
10:00	-	10:50	滑川 拓	Observational studies of high energy electron microburst associated with high-latitude propagating whistler waves
11:00	-	11:50	山川 智嗣	Study of the excitation mechanism of internally driven ULF waves in the Earth's magnetosphere based on the magnetosphere-ionosphere coupled model
13:00	-	13:50	高木 直史	Analyses on vertical mixing of Ryugu's surface layers based on high-resolution multi-band images
14:00	-	14:50	鈴木 雄大	The study on the relationship between the surface bounded exosphere and the surfaces of celestial bodies
15:00	-	15:50	小林 真輝人	Experimental and theoretical study on UHF-terahertz sensing instruments for extraterrestrial missions
16:00	-	16:50	坂田 遼弥	Study of ion escape from ancient Mars based on multispecies and multifluid MHD simulations
17:00	-	17:50	菅生 真	Observational studies of energetic electrons in the solar system: analysis of electron scattering and development of a small sensor with hemispherical field-of-view for future planetary exploration

(11月2日(水)に続く)

## 11月1日(火)

システム科学グループ		710講義室		
開始	-	終了	発表者	タイトル
14:00	-	14:50	木村 真博	Development of planetary population synthesis model for validation of planet formation theory through the statistical comparison with exoplanet observations
15:00	-	16:50	太田 耕輔	Improved accuracy of radiocarbon dating through analysis of the carbon reservoir effect in different environments using various sample materials

## 11月1日(火)

固体地球科学グループ		336講義室		
開始	-	終了	発表者	タイトル
10:00	-	10:50	岡 健太	The storage and transport property of water in the Earth and planetary deep interiors
11:00	-	11:50	岩橋 くるみ	Decoding pre eruptive process at mushy magma reservoir by crystal clots: A Case study of Unzen historical eruptions
13:00	-	13:50	Kim HyeJeong	Significant effects of the seafloor sediment on the passive ocean bottom seismology: methods and practices for structural analysis
14:00	-	14:50	小澤 佳祐	Development of in-situ high-pressure X-ray absorption spectroscopy in the fluorescence yield mode and its application to geoscience
15:00	-	15:50	奥田 花也	Friction experiments on materials in subduction zones for understanding slip behaviors along subduction plate interfaces
16:00	-	16:50	福田 孔達	Modeling of earthquake rupture and statistical properties using a discrete cell automaton model
17:00	-	17:50	Hassan Eman Saad	Magma generation and evolution in the craton margin in eastern Africa: Petrology and geochemistry of the Wadi Dib ring complexes, Eastern Desert, Egypt

(11月2日(水)に続く)

## 11月2日(水)

宇宙惑星科学グループ		105講義室		
開始	-	終了	発表者	タイトル
15:00	-	15:50	上島 翔真	Global Test Particle Simulation of Cosmic-ray Acceleration in a Supernova Remnant Shock Propagating in a Stellar Wind
16:00	-	16:50	川島 桜也	Analysis of high-resolution images of the lunar polar regions for landing site selection and development of a neutral mass spectrometer for future lunar and planetary exploration

## 11月2日(水)

固体地球科学グループ		336講義室		
開始	-	終了	発表者	タイトル
10:00	-	10:50	蘭 幸太郎	Spatiotemporal characteristics of seismic velocity structure across different stress regimes in the shallow crust of Mt. Fuji volcanic area
11:00	-	11:50	岡本 篤郎	A common diffusional mechanism for creep and grain growth in polymineralic rocks : Experiments and application to the lower mantle rheology
13:00	-	13:50	池永 有弥	Sequences and mechanisms of explosive eruptions caused by basaltic magma in Izu-Oshima
14:00	-	14:50	伊藤 健吾	High-precision Pb-Pb chronology of Fe-Ti oxides
15:00	-	15:50	Kim Nahyeon	Olivine morphology and fabric during diffusion creep
16:00	-	16:50	山岡 健	Study on the formation of plutons and thermal structures of metamorphic rocks in southwestern Japan

## 11月2日(水)

地球生命圏科学グループ		710講義室		
開始	-	終了	発表者	タイトル
10:00	-	10:50	名取 幸花	Speciation and isotopic signature of metal elements in atmospheric aerosols as indicators of combustion origin sources
11:00	-	11:50	上田 裕尋	Morphological correlation between the pelvic skeleton and muscles in extant archosaurs and a new method of soft tissue reconstruction in extinct dinosaurs
13:00	-	13:50	石川 弘樹	Postnatal ontogeny and sequence heterochrony in skeletal characteristics of extant birds and their implications in vertebrate paleontology
14:00	-	14:50	脇水 徳之	Reconstruction of the evolutionary history and sensory function of the rostrum in reptiles including birds focusing on the cranial nerve pathways
15:00	-	15:50	蓬田 匠	Environmental geochemistry of uranium based on chemical-state analysis developed by advanced X-ray spectroscopy
16:00	-	16:50	山口 瑛子	Investigation of environmental behavior of multiple ions based on systematic understanding of adsorption reaction on clay minerals

## 11月4日(金)

大気海洋科学グループ		336講義室		
開始	-	終了	発表者	タイトル
13:00	-	13:50	村田 壱学	Mechanisms of decadal sea surface temperature variability in the eastern North Pacific
14:00	-	14:50	山崎 一哉	A study on the model reproducibility of the equatorial Kelvin wave using a super-parameterized MIROC climate model
15:00	-	15:50	小新 大	Development of a data assimilation system for the whole neutral atmosphere and a study on the intra-seasonal variability of the middle atmosphere based on long-term reanalysis products
16:00	-	16:50	幾田 泰醇	Effects on the Vertical Structure of Precipitation Systems by Advancement of Physical Processes Schemes in the Numerical Weather Prediction Models Using Remote Sensing Observations as Reference
17:00	-	17:50	神野 拓哉	A study on statistical properties of deep cumulus convection under radiative-convective quasi-equilibrium conditions