Website: https://markuspad.com/ GitHub: inokawazu
Email: markus.a.amano[at]gmail.com iNSPIREHEP

Nationality: USA

Education

PhD in Theoretical Physics 2016-2021, The University of Alabama - USA, Tuscaloosa Study Abroad in JYPE 2014-2015, Tohoku University - Japan, Sendai BS in Engineering Physics 2012-2016, The Colorado School of Mines - USA, Golden

Appointments/Employments

JSPS Postdoc August 2023 - August 2024

Yamagata University

Technical Consultant January 2023 - May 2023

Quantum Data Center

Technical Consultant August 2022 - May 2023

 ${\it quantumz.} io$

Postdoc 2022 - 2023 Henan University

Contract Tutor 2017 - 2021

Appliedtutoring.com

PhD Student 2016 - 2021 The University of Alabama

Graduate Teaching Assistant 2016 - 2021

The University of Alabama

Publications (Including Preprints)

2024 - Holographic Global Vortices with Novel Boundary Conditions

arXiv:2404.03212

 $\it 2023$ - Relativistic Hydrodynamics under Rotation: Prospects & Limitations from a Holographic Perspective

arXiv:2308.11686

2023 - Modes of the Sakai-Sugimoto soliton

arXiv:2306.00677

2023 - Convergence of hydrodynamics in rapidly spinning strongly coupled plasma

10.1103/PhysRevD.108.046014 - arXiv:2112.10781

2022 - Chaos and pole-skipping in a simply spinning plasma

10.1007/JHEP02(2023)253 - arXiv:2211.00016

2020 - Hydrodynamics of simply spinning black holes & hydrodynamics for spinning quantum fluids

10.1007/JHEP12(2020)112 - arXiv:2007.04345

2020 - Resonating AdS soliton

10.1007/JHEP08(2020)136 - arXiv:2006.12783

2019 - Dispersion relations in non-relativistic two-dimensional materials from quasinormal modes in Hŏrava Gravity

10.1007/JHEP10(2019)087 - arXiv:1905.11993

Given Talks

Research Seminar	May, 2024
Tokyo Institute of Technology	
Research Seminar	May, 2024
Keio University	
Research Seminar	May, 2024
Chuo University	
Rising Researchers Seminar (Invited)	April, 2024
Online	
International Workshop on Noncommutative	March, 2024
Integrable Systems	
Online	
Holotube (Invited)	December, 2023
Online	
Online workshop on topological solitons	September, 2023
Online	
Research Seminar	February, 2020
Tokyo University	
Research Seminar	February, 2020
Ochanomizu University	
Research Seminar	February, 2020
Chuo University	
Research Seminar	July, 2019
Würzburg University	
Frankfurt Institute for Advanced Studies	July, 2019
Würzburg University	
3rd Karl Schwarzschild Conference	July, 2017
Würzburg University	

Awards

Japanese-Language Proficiency Test (JLPT) N2 Level Certification	2023
Japan Society for the Promotion of Science Fellowship	2023
Yamagata University Outstanding Research by a Master's Student	2020
The University of Alabama	
JASSO Scholarship Tohoku University	2014
Private Scholarship Pagosa Springs High School	2008

Memberships

President	2017 - 2021
Physics and Astronomy Graduate Physics Association	
of the University of Alabama	
Secretary	2017 - 2020
Japanese American Cultural Exchange Club of the	
University of Alabama	

References

 $\bf Minoru\ Eto\ (Yamagata\ University,\ Professor)\ \it was\ my\ Postdoc\ Advisor\ meto@sci.kj.yamagata-u.ac.jp$

Sven Bjarke Gudnason (Henan University, Distinguished Professor) was my Postdoc Advisor gudnason@henu.edu.cn

Matthias Kaminski (The University of Alabama, Associate Professor) was my PhD Advisor

Teaching Experience

Special Lectures on Special Relativity - ${\rm Spring}~2024$

Yamagata University - informal lectures taught in Japanese

PH 255: Modern Physics Laboratory - Spring 2021

The University of Alabama - as a graduate teaching assistant

PH 255: Modern Physics Laboratory - Fall 2020

The University of Alabama - as a graduate teaching assistant

PH 106: General Physics with Calculus II - Summer 2020

The University of Alabama - $two\ classes\ where\ taught$

PH 125: Honors General Physics with Calculus I - Fall 2019

The University of Alabama - as a graduate teaching assistant

PH 255: Modern Physics Laboratory - Fall 2018

The University of Alabama - as a graduate teaching assistant

Tutoring Session - Fall 2018 - Spring 2021

Applied Tutoring - taught privately for around 5hrs a week at the University of Alabama

PH 125: Honors General Physics with Calculus I - Fall 2016

The University of Alabama - as a graduate teaching assistant

PH 105: General Physics with Calculus I - Fall 2016 - Spring 2021

The University of Alabama - as a graduate teaching assistant for 0-2 classes per year

PH 106: General Physics with Calculus II - Fall 2016 - Spring 2021

The University of Alabama - as a graduate teaching assistant for 0-2 classes per year