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

Nationality: USA

GitHub: inokawazu iNSPIREHEP



## 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

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

 $\it 2020$  - Hydrodynamics of simply spinning black holes & hydrodynamics for spinning quantum fluids  $\it 10.1007/JHEP12(2020)112$  -  $\it arXiv:2007.04345$ 

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

#### 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 OnlineInternational Workshop on Noncommutative March, 2024 Integrable Systems OnlineHolotube (Invited) December, 2023 OnlineOnline workshop on topological solitons September, 2023 OnlineResearch 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 July, 2017 3rd Karl Schwarzschild Conference Würzburg University Awards Japanese-Language Proficiency Test (JLPT) N2 2023Level Certification Japan Society for the Promotion of Science 2023**Fellowship** Yamagata University

### Memberships

The University of Alabama

Pagosa Springs High School

JASSO Scholarship Tohoku University Private Scholarship

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	

Outstanding Research by a Master's Student

## References

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

2020

2014

2008

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

**Matthias Kaminski** (The University of Alabama, Associate Professor) was my PhD Advisor mski@ua.edu