



## Publications (Including Preprints)

2024 - **Holographic Global Vortices with Novel Boundary Conditions**

arXiv:[2404.03212](#)

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 H $\ddot{o}$ rava Gravity**

[10.1007/JHEP10\(2019\)087](#) - arXiv:[1905.11993](#)

## 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

## Given Talks

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

## Awards

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

## Memberships

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

## References

**Minoru Eto** (Yamagata University, Professor) *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*  
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