Hao-Jui Kuan

Curriculum Vitae

Personal Data

Surname Kuan
Name Hao-Jui
Date of birth 13 July 1995
Nationality Taiwan

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Address Albert-Einstein-Institut, Am Mühlenberg 1, 14476 Potsdam

Education

2019 - 2022 PhD in Theoretical Astrophysics (joint degree)

University of Tübingen, Tübingen, Germany (IAAT)

Advisor: Kostas D. Kokkotas Evaluation: summa cum laude

2017 - 2022 PhD in Physics (joint degree)

National Tsing Hua University, Hsinchu, Taiwan (NTHU)

Advisor: Chao-Qiang Geng

2013 - 2017 B.Sc Double major in Physics and Mathematics

Scientific summary

Number of first author articles ... 9
Refereed Articles ... 13
Preprints/journal sumissoions ... 11
h index (HEP-SPIRES) ... 7
Number of invited seminar ... 4

Awards, Honors, Fellowships & Grants

Grants

2020 - 2021 Principal Investigator of Sandwich-Scholarship Programme;

13,500 euro, funded by Deutscher Akademischeer Austauschdienst (DAAD), and Ministry of Science and Technology, Taiwan (MOST) with funding ID being JYP 109-2927-I-007-503.

Awards/Prizes

2023 2023 NCTS Student Outstanding Paper Award

2017 - 2020 Presidential Scholarship by NTHU for PhD applicants with excellent grades.

Full Presentations/Seminar List

2023

April 5 "Dynamical Scalarization during BNS mergers in scalar-Gauss-Bonnet",

CoCoNut meeting, Potsdam, Germany. March 22 "Packed Message delivered by Tides in Binary Neutron Star Mergers", parallel talk, SMuK2023, Technical University Dresden, Germany. March 16 "Dynamical Scalarization during Neutron Star Mergers in scalar-Gauss-Bonnet Theory", invited seminar, University of Tübingen, Germany. February 3 "Developing waveform involving dynamical tides", invited seminar, Academia Sinica, Taipei, Taiwan. February 2 "Gravitational Phase Transition in Massive Scalar-tensor Theory", invited seminar, National Center for Theoretical Sciences, Hsinchu, Taiwan. 2022 Sep 10 "Premerger Neutron Star Physics", plenary talk, Eleventh Aegean summer school, Syros, Greece. Sep 08 "Gravitaional Phase Transition", parallel talk, Eleventh Aegean summer school, Syros, Greece. May 16-19 "Tidal effects in the pre-merger stage of coalescing binary neutron stars", e-poster, PHAROS: The multi-messenger physics and astrophysics of neutron stars, Roma, Italy. Mar 3 "Resonance shattering as triggers for precursors of SGRBs", parallel talk, DPG Meeting of the Matter and Cosmos Section (SMuK), Heidelberg, Germany. (remotely) 2021 Aug30 - Sep3 "Tidal q-mode resonances in coalescing binaries of neutron stars as triggers for precursor flares of short gamma-ray bursts", parallel talk DPG Meeting of the Matter and Cosmos Section (SMuK), Bad Honnef, Germany. (remotely) July 27 "g-mode resonances as triggers for precursors of SGRBs", invited talk Grav@zon group seminar, Federal University of Pará, Pará, Brazil. (remotely) Jun 22 "Dynamical formation of scalarized black holes and neutron stars through stellar core collapse", invited seminar cosmo/GW journal club, Johns Hopkins University, Maryland, USA. (remotely) 2020 Feb 24-28 "Inverse-Chirp Imprint of GW in Scalar Tensor Theory", parallel talk 56th Karpacz Winter School in Theoretical Physics, Karpacz, Poland. Teaching experience At NTHU Teaching assistant for General Relativity (2016 Fall, 2018 Fall), Mathematical Physics (2017-2018), Thermal Physics (2016-2017), Calculus (2018-2019) At IAAT Teaching assistant for Physical Practical (2021 Summer & Winter) Teaching assistant for Grundkurs Electromagnetism (2022 Summer)

Miscellaneous

Computer skills Programming: Python, Fortran

Scientific software: Matlab, Mathematica, Gnuplot

English (fluent), Mandarin (Mother tongue), Japanese (fluent) Language

References

Prof. Dr. Kostas Kokkotas

Theoretical Astrophysics (IAAT)

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Prof. Dr. Masaru Shibata

Max-Planck-Institut für Gravitationsphysik (Albert-Einstein-Institut) Am Mühlenberg 1, 14476 Potsdam, Germany e-mail: masaru.shibata@aei.mpg.de

o Dr. Daniela Doneva

Theoretical Astrophysics (IAAT) Eberhard Karls Universität Tübingen Auf der Morgenstelle 10, 72076 Tübingen, Germany e-mail: daniela.doneva@uni-tuebingen.de

o Dr. Arthur Suvorov

Manly Astrophysics 5/41-42 East Esplanade, Manly, NSW 2095, Australia e-mail: arthur.suvorov@manlyastrophysics.org

Prof. Dr. Stoytcho Yazadjiev

Sofia University St Kliment Ohridski 15 Tsar Osvoboditel Boulevard BG-Sofia 1504, Bulgaria e-mail: yazad@phys.uni-sofia.bg

Golm

May 2, 2023

Hao-Jui Kuan