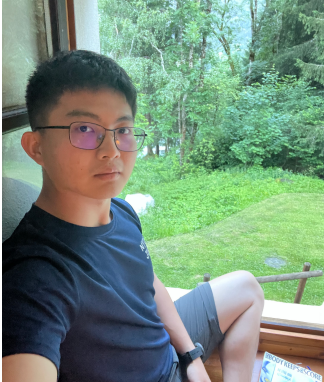


WUN-YI CHEN



Affiliation

ASIAA, Taipei, Taiwan

NTU, Taipei, Taiwan

Contact Information

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No.1, Sec. 4, Roosevelt Rd.

Taipei, Taiwan 10617

OBJECTIVE

Personal Profolio.

EDUCATION

National Taiwan University. Taipei, Taiwan

2021- Now

Ph.D. Direct Track

Graduate Institute of Astrophysics

- Ph.D. Candidate

National Taiwan University. Taipei, Taiwan

2020-2021

Master

Graduate Institute of Astrophysics

- GPA (4.17/4.3)

National Taiwan University. Taipei, Taiwan

2015-2020

Bachelors Double-Major

Business Administration and Department of Physics

Technical University of Munich. Munich, Germany

2017-2018

Exchange Program

TUM School of Management

- Exchange program in Munich.

RESEARCH EXPERIENCE

Academia Sinica, Taipei, Taiwan

2018- Now

Institute of Astronomy and Astrophysics

Ke-Jung Chen's Cosmic Explosion Group

Multidimensional Radiation Hydrodynamics Simulations of SN 1987a, RSGs, and Confined Shell CSM Shock Breakout

- Utilize CASTRO via HPC with C, C++, fortran90 and Python
- Develop state-of-the-art shock breakout simulation
- Resolve drawbacks in previous study and provide realistic estimation on shock breakout dynamics and CSM

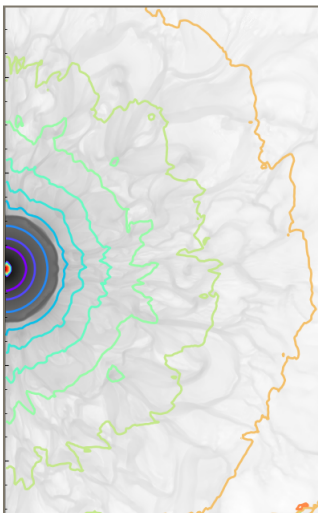
HITS, Heidelberg, Germany

2025 Summer

Fritz Roepke PSO Group

Probing the First Light of Supernovae: Interacting Supernovae and Stellar Physics

- Cooperate with PSO group.
- Bridge stellar physics with RHD simulations.



PUBLICATION

- Wun-Yi Chen, Ke-Jung Chen, Masaomi Ono,
Multidimensional Radiation Hydrodynamics Simulations of Supernova 1987A Shock Breakout, 2024 ApJ 976 147.
doi:10.3847/1538-4357/ad7de3.

AWARDS

- DAAD/NSTC Sandwich Scholarship, 2026
- NCTS Student Outstanding Paper Award, 2025
- DAAD-NSTC Summer Institute Program, 2025
- Chung Hwa Rotary Education Foundation Scholarship, 2025
- NSTC Subsidy for Domestic Graduate Students to Attend International Academic Conferences, 2024
- Financial Support from *Interstellar Shocks School of Les Houches*, 2022
- Ph.D. Direct Track Scholarship, 2020-2024
- Top Admission: Graduate Institute of Astrophysics, 2020

CONFERENCE

- Wun-Yi Chen, Ke-Jung Chen, Keiichi Maeda, Masaomi Ono, Po-Sheng Ou, Sung-Han Tsai (2025 Winter). *Supernovae Shock Breakout with Confined-Shell CSM in Two Dimensions. Oral Presentations in EAMA 11, Japan.*
- Wun-Yi Chen, Ke-Jung Chen, Masaomi Ono (2024 Summer). *Multidimensional Radiation Hydrodynamics Simulations of Supernova 1987A Shock Breakout. 1-min Oral Presentations in SNRIII at Crete, Greece.*
- Wun-Yi Chen, Ke-Jung Chen, Masaomi Ono, Po-Sheng Ou. (2024 Spring). *2D Radiation Shock Breakout of Rad Super Giant with Circumstellar Medium.* Poster section in 2024 TPS Annual Meeting.
- Wun-Yi Chen, Ke-Jung Chen (2024 Spring). *2D Radiation Hydrodynamics Simulations of Supernova 1987a Shock Breakout.* Poster section in 2024 TPS Annual Meeting.
- Deliver other 7 talks and 7 posters at inter-/national events

REFEREE

Dr. Ke-Jung Chen

- Assistant Research Fellow
- Academia Sinica Institute of Astronomy and Astrophysics

TA Experiences

- Radiation Hydrodynamics
 - Classical Mechanics
 - Modern Physics Lab
-

Interests

- Judo National Champion
 - 15-Year Practice of Piano
 - Outreach: [Open Museum](#)
-

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