

Wenqi Yu

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📍 Hong Kong

Research Interests

- Inflationary cosmology, cosmological correlator, cosmological bootstrap
- Schwinger–Keldysh effective field theory, thermal field theory
- de Sitter entropy and quantum information

Education

Hong Kong university of science and technology

2023–Present

- PhD in Theoretical Physics
- Thesis topic: De Sitter as an Open System–Entanglement, Thermalization, and Renormalization
- Advisor: Prof. Yi Wang, Dr. Dong-Gang Wang

University of science and technology of china

2019–2023

- BSc in Physics, School of Gifted Young
- Thesis topic: Holographic Entanglement Entropy and Bulk Reconstruction
- Advisor: Prof. Minxin Huang

Publications and Preprints

Equilibrium Open EFT in de Sitter and Warm Inflation

2026

- Authors: Ching Fong, Thomas Colas, Wenqi Yu, Bowei Zhang
- Coming soon

Constraints on Open EFT of Warm Inflation

2026

- Authors: Thomas Colas, Wenqi Yu, Bowei Zhang
- Coming soon

Gravitational Entropy of Quasi de Sitter and Inflation

2026

- Authors: Weizhen Jia, Jinbo Yang, Wenqi Yu, Yunke Zhao
- Coming soon

On the Cosmological Correlators with Boundary Contributions

2026

- Authors: Yanjiao Ma, Dong-Gang Wang, Xiangwei Wang, Yi Wang, Wenqi Yu
- arXiv: 2606.06282

Interact or Twist: Cosmological Correlators from Field Redefinitions Revisited

2025

- Authors: Dong-Gang Wang, Xiangwei Wang, Yi Wang, Wenqi Yu
- arXiv: 2508.12856

Mass Dimension Fermion in FLRW Spacetime

2024

- Authors: Cheng-Yang Lee, Haomin Rao, Wenqi Yu, Siyi Zhou
- Eur.Phys.J.C 85 (2025) 3, 267, arXiv: 2402.05623

Talks and Posters

Equilibrium Open EFT in de Sitter and Warm Inflation

2024

- Type: poster
- Conference: Contours 2026 - Effective Field Theories Meet the Schwinger-Keldysh Formalism

On the Field Redefinition, Conformal Anomaly and Renormalization in de Sitter	2025
• Type: talk • Conference: Progress of Theoretical Bootstrap.	
Cosmological Correlators Arising from Boundary	2025
• Type: talk • Conference: Cosmo 2025–28th International Conference on Particle Physics & Cosmology	

Awards and Funding

Global Research Award, HKUST	2026
Red Bird Scholarship, HKUST	2025
Qiangwei Xinhe Scholarship, School of Gifted Young, USTC	2023
Bronze Award, Yau Mathematics Contest	2022
First Prize, Chinese University Physics Tournament	2020