Nanoom Lee

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Employment Horizon Postdoctoral Fellow, Johns Hopkins University, Baltimore, MD October 2024 – Present · Mentor: Prof. Marc Kamionkowski Education Ph.D. in Physics, New York University, New York, NY September 2024 Focused on Cosmology/Astrophysics Advisors: Prof. Yacine Ali-Haïmoud & Prof. Roman Scoccimarro M.A. in Physics, Stony Brook University, Stony Brook, NY May 2018 B.S. in Physics and Mathematics, Korea University, Seoul, South Korea February 2016 · First rank in class Honors and Newton International Fellowship (The Royal Society/Host:U.Edinburgh/Reserve list) 2024 Awards Roman Galaxy Redshift Survey Postdoctoral Researcher (Caltech/PI:Dr.Yun Wang/Declined) 2024 Beus Prize Postdoctoral Fellowship (Arizona State University/finalist/2nd place) 2024 2020 - 2021, 2022 - 2023 James Arthur Graduate Associate Fellowship (NYU) Balzan Cosmological Studies Program Award (Oxford/JHU) 2022 Outstanding Graduate Student Instructor Award (NYU) 2019 - 2020Korean Government Scholarship for Overseas Study (Ministry of Education, South Korea) 2016 – 2018 First Rank Graduation Award (Korea University) 2016 Boheon Scholarship (Full tuition/Korea University) Spring 2012 – Spring 2013, Fall 2015 National Scholarship (Ministry of Education, South Korea) Spring 2012 – Fall 2012 Publications 6 first-authored publications and 1 second-authored paper under review 1. A. Eggemeier, N. Lee, R. Scoccimarro, et al. "Boosting galaxy clustering analyses with non-perturbative modelling of redshift-space distortions" 2501.18597 (submitted to PRD) 2. **N. Lee** and Y. Ali-Haïmoud "Magnetic field from primordial perturbations" *Phys.Rev.D* 109, 103536 (2024) 3. N. Lee and S. C. Hotinli "Probing light relics through cosmic dawn" Phys. Rev. D 109, 043502 (2024) 4. N. Lee, Y. Ali-Haïmoud, N. Schöneberg, V. Poulin "What it takes to solve the Hubble tension through modifications of cosmological recombination" Phys. Rev. Lett. 130,161003 (2023) 5. N. Lee, S. C. Hotinli, M. Kamionkowsi "Probing cosmic birefringence with Polarized Sunyaev Zel'dovich Tomography" *Phys.Rev.D* 106, 083518 (2022) 6. N. Lee and Y. Ali-Haïmoud "Probing small-scale baryon and dark matter isocurvature perturbations with cosmic microwave background anisotropies" Phys. Rev. D 104, 103509 (2021) 7. N. Lee and Y. Ali-Haïmoud "hyrec-2: a highly accurate sub-millisecond recombination code" Phys. Rev. D 102, 083517 (2020) In preparation 1. **N. Lee**, M. Braglia, Y. Ali-Haïmoud "Can inflation solve the Hubble tension?" **Techinical** Programming: Python, C, Mathematica, HPC Skills Research tools: CLASS, MontePython, Multinest, emcee Public Code HYREC-2: a highly accurate sub-millisecond cosmological recombination code - Incorporated into two popular linear Boltzmann solvers in cosmology, CLASS and CAMB - Available at github.com/nanoomlee/HYREC-2 Service Referee, Journal of Cosmology and Astroparticle Physics (JCAP) Referee, Astronomy & Astrophysics (A&A) Teaching General Physics I Lab (undergrad) Spring 2024 Assistant Electricity & Magnetism I (undergrad) Fall 2019, Fall 2021 Mathematical Physics (undergrad) Spring 2019, Spring 2020

Talks Perimeter Institute, Waterloo January 2024 PONT conference, Avignon April 2023 LUPM, Montpellier April 2023 AAS 241st Meeting (iPoster), Seattle January 2023 Cosmology from Home (remote) July 2022 Particle Astro/Cosmo Meeting Around NYC (PACMAN) at CCA May 2022 Brown Bag, New York University April 2022 NYU-CCA X Data Science meeting May 2021

References Yacine Ali-Haïmoud (Ph.D. advisor)

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