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Subproduct systems and C^* -algebras

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Citation

Ge, Y. (2025, October 22). *Subproduct systems and C^* -algebras*. Retrieved from <https://hdl.handle.net/1887/4279616>

Version: Publisher's Version

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Note: To cite this publication please use the final published version (if applicable).

Acknowledgements

Four years have passed in the blink of an eye. Throughout this unforgettable journey, I have been fortunate to receive support and kindness from many people. Though space is limited, it cannot fully convey the depth of my gratitude.

First and foremost, I would like to express my genuine gratitude to my supervisors, Francesca Arici and Dimitris M. Gerontogiannis. As my internal daily supervisor, Francesca has been consistently supporting and guiding me for four years, without whom I would not have had the chance to explore the beautiful world of Noncommutative Geometry and complete my final thesis. I am also deeply grateful to Dimitris, whose insightful mathematical discussions on Tuesday afternoons inspired much of my work, and whose careful proofreading greatly improved the clarity and precision of this thesis.

My sincere thanks also go to my promoter, Marcel de Jeu, who introduced me to the Ph.D. program at the Mathematical Institute of Leiden University. I am grateful for his encouragement and careful handling of formalities during my Ph.D. period.

I would also like to thank my colleagues, Bram, Onno, Mark, Chun, Jack and Samuel, for organizing the seminars and for the many insightful mathematical discussions we shared.

Special thanks go to Yuezhaohao, my first roommate and officemate, who not only taught me KK -theory but also took care of me when I was ill.

I would also like to express my heartfelt thanks to my friends in China - Chengkai, Yang, Zhiyu Lin, Zheng, Ziyi, Zhiyu Guan, Yuran, and Yuru, whose unwavering support comforted me during times of loneliness. Though separated by thousands of miles, they have never truly been far from my side.

I am grateful to Xingni, Yi Wang, and Hui Dan for offering me opportunities to undertake visits to Sichuan University and Chongqing University, and for their generous hospitality.

Lastly, please allow me to express my endless gratitude to my wife and family.

In China, there is a saying: "While one's parents are alive, one should not travel far from home." I have been away for six years, and the hardships along the way are difficult for others to fully understand. And yet, I count myself truly fortunate, for through every thorn and obstacle, I have always had my parents' endless trust and support.

Finally, I would like to devote the remainder of my words to my wife, Jingmin. Through countless sleepless nights, it was you who quietly kept watch over me. In moments of regret and discouragement, it was you who spread your gentle wings to ease the weight of my sorrows. Without you, I cannot imagine how I could have carried on.

Publication list

- (1) F. Arici and Y. Ge, *Quadratic subproduct systems, free products, and their C^* -algebras* (2025), preprint, arXiv: 2504.12843.
- (2) X. Wang, Y. Ge, C. Yang, X. Li, *Enhancement of Non-uniform Illumination Images Based on Multi-scale Decomposition*, *Mathematics in Practice and Theory*, 2019, 49(21):149-156. (Chinese)

Curriculum Vitae

Yufan Ge was born on February 15, 1997, in Quzhou, Zhejiang Province, China. He attended Zhejiang Province Quzhou NO.2 Middle School in 2012. During his high school years, he developed a deep interest in mathematics when he first learned how to take the square root of -1 .

In 2015, he was admitted to the Mathematics and Applied Mathematics program at Beijing Forestry University. After a four-year study, he graduated with honors in 2019. His bachelor's thesis *Realization of Lie Algebra via Representation Theory*, under the supervision of Prof. Minghui Zhao, was awarded the title of *Beijing Outstanding Graduation Thesis*. In 2019, he moved to Leiden University for his master's studies. In 2021, he graduated cum laude in Mathematics, under the supervision of Dr. Francesca Arici. Three months later, he started his Ph.D. in operator algebras at Leiden University. He has been supervised by Dr. Francesca Arici and Dr. Dimitris M. Gerontogiannis.

During his Ph.D. program, he participated in several international conferences, including IWOTA (2023-2025), YMC*A (2023-2024), and NSeaG (2021-2023). In the final year of his Ph.D., he visited Sichuan University and Chongqing University, hosted by Dr. Xingni Jiang, Dr. Hui Dan, and Prof. Yi Wang, respectively.

Upon completion of his Ph.D., he will join SiCarrier, where he will apply mathematical analysis to address real-world industrial challenges.