



Universiteit
Leiden
The Netherlands

Smoothly breaking unitarity : studying spontaneous collapse using two entangled, tuneable, coherent amplifiers

Reep, T.H.A. van der

Citation

Reep, T. H. A. van der. (2019, June 13). *Smoothly breaking unitarity : studying spontaneous collapse using two entangled, tuneable, coherent amplifiers*. *Casimir PhD Series*. Retrieved from <https://hdl.handle.net/1887/73911>

Version: Not Applicable (or Unknown)

License: [Leiden University Non-exclusive license](#)

Downloaded from: <https://hdl.handle.net/1887/73911>

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

Cover Page



Universiteit Leiden



The handle <http://hdl.handle.net/1887/73911> holds various files of this Leiden University dissertation.

Author: Reep T.H.A. van der

Title: Smoothly breaking unitarity : studying spontaneous collapse using two entangled, tuneable, coherent amplifiers

Issue Date: 2019-06-13

Acknowledgements

No PhD is an island. It is therefore that I would like to take the opportunity to express my gratitude to all who supported and helped me, knowingly and unknowingly, during the past four years.

First and foremost, thank you, Tjerk! I am very grateful for your guidance and advice, and the freedom you gave me to choose my own problems to work on. You gave me the opportunity to think about and work on a topic, which, I think, is one of the most interesting problems in contemporary physics: the quantum measurement problem. I would also like to thank you for your support when I needed to get my head out of research for a bit, and for inviting me to explore my limits a little further.

Thank you, Oosterkamp-group! Arthur, Bob, Gesa, Jelmer, Louk, Lucia, Marc and Martin, you brought colour and joy to the group. The random and less-random discussions we had during lunch, the group outings and, most of all, our epic journey to Iceland, Canada and the United States are memories making me smile, while crossing my mind. Here, I would also like to thank all students that worked in the group, especially Xavier and Ruben, who worked with me on the results presented in chapter 4. Also, thank you, Max, for all the nice discussions we had about ice skating. Last but not least, thank you, Ellie, for taking care of all the non-science related issues in the group.

Thank you, DiCarlo-group! Leo, I am grateful for your hospitality. Alessandro, thank you for showing me the ropes in the cleanroom and all the discussions we had on the design of travelling-wave parametric amplifiers and cleanroom issues. But most of all, thanks for always having a positive attitude. Jacob, I really enjoyed our after-lunch walks around campus.

Thank you, Michiel, Gerard and Wolfgang! It was great that your doors were always open for discussions on quantum optics.

Thank you, Bert, Merlijn and Gert! By providing technical support, you literally made the experiments in Leiden work. It was always nice to scooter to the new Gorlaeus building for a question on quick fixes or a more elaborate discussion on microwave technology or designed parts.

And last, but not least, I would like to thank my parents and siblings Els, Bas and Klaartje, and, of course, Franka. You were always there for me to listen to my stories and to stroke my head gently when it was most needed.

