

Mentor's consent (Soglasje mentorja)

As the mentor of my PhD student Adrian Udovičič, I hereby give my consent to his disposition of the doctoral dissertation with the title “Generating and teleporting entanglement for quantum networks”. In the following, I list references to five of my publications in the field of the thesis topic of my student.

Sincerely,

assoc. prof. dr. Rainer Oliver Kaltenbaek

SICRIS number: 53022

References: [1, 2, 3, 4, 5]

References

- [1] R. Prevedel, P. Walther, F. Tiefenbacher, P. B. Öhi, R. Kaltenbaek, T. Jennewein, and A. Zeilinger, “High-speed linear optics quantum computing using active feed-forward,” *Nature*, vol. 445, no. 7123, pp. 65–69, 2007.
- [2] R. Kaltenbaek, R. Prevedel, M. Aspelmeyer, and A. Zeilinger, “High-fidelity entanglement swapping with fully independent sources,” *Physical Review A—Atomic, Molecular, and Optical Physics*, vol. 79, no. 4, p. 040302, 2009.
- [3] R. Kaltenbaek, A. Acin, L. Bacsardi, P. Bianco, P. Bouyer, E. Diamanti, C. Marquardt, Y. Omar, V. Pruneri, E. Rasel *et al.*, “Quantum technologies in space,” *Experimental Astronomy*, vol. 51, no. 3, pp. 1677–1694, 2021.
- [4] D. Ribezzo, M. Zahidy, I. Vagniluca, N. Biagi, S. Francesconi, T. Occhipinti, L. K. Oxenløwe, M. Lončarić, I. Cvitić, M. Stipčević *et al.*, “Deploying an inter-european quantum network,” *Advanced Quantum Technologies*, vol. 6, no. 2, p. 2200061, 2023.
- [5] Ž. Pušavec, L. Ulčakar, and R. Kaltenbaek, “Designing a compact cavity-enhanced source of entangled photons,” *arXiv preprint arXiv:2408.16666*, 2024.