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The lead zeppelin : a force sensor without a handle

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List of Publications

L. Rademaker, T. van der Reep, N. Van den Broeck, B. van Waarde, M. de Voogd and T. Oosterkamp, “The Instability of a Quantum Superposition of Time Dilations”, *submitted*, preprint available at *arXiv:1410.2303*.

B. van Waarde, O. Benningshof and T. Oosterkamp, “A Magnetic Persistent Current Switch at milliKelvin Temperatures”, *Cryogenics*, vol. 78, p. 74, 2016.

B. van Waarde, M. de Wit, G. Koning and T. Oosterkamp, “Flying a Lead Zeppelin, a Force Sensor without a Handle”, *in preparation*.

Curriculum Vitae

The author was born on November 16th, 1986, in Haarlem, the Netherlands. He went to Lyceum Sancta Maria in Haarlem for his gymnasium high school diploma, and graduated in 2005.

Following this, he started a Bachelor of Science in Applied Physics at Delft University of Technology. The Bachelor of Science degree was obtained in 2010, for which the author studied the mechanical properties of suspended graphene in the group of prof. dr. ir. H. S. J. van der Zant.

As there was no ‘hard cut’ (*harde knip*) between the Bachelor and Master programmes at the time, he could start with his Master of Science in 2009. During the master’s, he made a switch of universities, and a Master of Science degree in Theoretical Physics was obtained in 2011 at Leiden University, for which he studied string theory and the quantum mechanics of charged fermions in fancy curved spacetimes under supervision of prof. dr. K. E. Schalm.

In 2012, he started his PhD in Experimental Physics at Leiden University in the group of prof. dr. ir. T. H. Oosterkamp, where he manufactured and studied the magnetic levitation of a small superconducting particle — the Lead Zeppelin.

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