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Proximity effects in superconducting spin-valve structures
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List of Publications

1. R. S. Keizer, M. G. Flokstra, J. Aarts, and T. M. Klapwijk
Critical voltage of a mesoscopic superconductor
Phys. Rev. Lett. **96**, 147002 (2006)
2. M. Flokstra, J. Aarts
Domain-wall enhancement of superconductivity in superconductor/ferromagnet hybrids: Case of weak ferromagnets
Phys. Rev. B **80**, 144513 (2009)
3. M. Flokstra, J. M. v.d. Knaap and J. Aarts
Magnetic coupling in superconducting spin valves with strong ferromagnets
to be submitted to Phys. Rev. B
4. J. Aarts, C. Attanasio, C. Bell, C. Cirillo, M. Flokstra and J. M. v.d. Knaap
Superconductor / Ferromagnet hybrids : bilayers and spin switching
to appear in the Springer Series NanoScience and Technology
(eds. V. Moshchalkov and R. Wördenweber).
5. R. S. Keizer, M. G. Flokstra, J. Aarts, and T. M. Klapwijk
Critical voltage of a mesoscopic superconductor between normal electrodes
Proceedings of the 24th international conference on low temperature physics,
AIP Conference Proceedings 850, 755 (2006)

Curriculum Vitae

Machiel Flokstra

Born on the 10th of July 1979 in Oldenzaal, The Netherlands.

- 1991-1997 High school
Thij college, Oldenzaal
- 1997-2003 M.Sc. Applied Physics
Delft University of Technology.
Graduate research in the group of prof.dr.ir. T.M. Klapwijk.
Subject: Anomalous behavior in nano Schottky diodes
- 2004-2009 Ph.D. research at Universiteit Leiden
Supervision by prof.dr. J Aarts
Subject: Proximity effects in superconducting spin-valve structures

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I thank Ruurd Keizer for our many fruitful discussions about physics, which have been a driving force for my work. I am particularly proud of our long summer of modelling Green functions that started out purely as a hobby during weekends but eventually turned into a nice piece of scientific work.

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During my PhD in Leiden I remained "faithful" to the flat in Delft where I lived as a student. I owe a lot of good moments to my flat mates Luc and Ruurd and also to our frequent visiting guests: Gerrit-Jan and Antonie, with whom we spend many weekends of overdosing on playing cards.

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