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Electron spin transport in quantum dots and point contacts

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List of publications

1. *Two-impurity Kondo effect in a quantum point contact*
E. J. Koop *et al.*
In preparation.
2. *Spin-dephasing anisotropy and persistent spin orientation in a diffusive quasi-1D GaAs wire*
J. Liu, T. Last, E. J. Koop, B. J. van Wees, and C. H. van der Wal,
In preparation.
3. *The annealing mechanism of AuGe/Ni/Au ohmic contacts to a two-dimensional electron gas in GaAs/AlGaAs heterostructures*
E. J. Koop, M. J. Iqbal, F. Limbach, M. Boute, B. J. van Wees, D. Reuter, A. D. Wieck, B. J. Kooi, and C. H. van der Wal,
Submitted to J. Appl. Phys.
4. *Confinement-enhanced spin relaxation of electron ensembles in large quantum dots*
E. J. Koop, B. J. van Wees, and C. H. van der Wal,
Submitted to Phys. Rev. B
5. *Spin accumulation and spin relaxation in a large open quantum dot*
E. J. Koop, B. J. van Wees, D. Reuter, A. D. Wieck,
and C. H. van der Wal,
Phys. Rev. Lett. **101**, 056602 (2008).
6. *The influence of device geometry on many-body effects in quantum point contacts: signatures of the 0.7 anomaly, exchange and Kondo*
E. J. Koop, A. I. Lerescu, J. Liu, B. J. van Wees, D. Reuter, A. D. Wieck,
and C. H. van der Wal,
J. Supercond. Novel Magn. **20**, 433 (2007).

7. *Persistence of the 0.7 anomaly of quantum point contacts in high magnetic fields*
E. J. Koop, A. I. Lerescu, J. Liu, B. J. van Wees, D. Reuter, A. D. Wieck,
and C. H. van der Wal,
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8. *Non-local detection of resistance fluctuations of an open quantum dot*
A. I. Lerescu, E. J. Koop, C. H. van der Wal, and B. J. van Wees,
Accepted for publication in Phys. Rev. B (see also arXiv:0705.3179v2)
9. *Hole transport in poly(phenylene vinylene)/methanofullerene bulk-heterojunction solar cells*
C. Melzer, E. J. Koop, V. D. Mihailetschi, and P. W. M. Blom,
Adv. Funct. Mater. **14**, 865 (2004).