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## Electromagnetically induced transparency with localized impurity electron spins in a semiconductor

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## List of publications

1. *Electromagnetically induced transparency with an ensemble of donor-bound electron spins in a semiconductor*  
M. Sladkov, [A. U. Chaubal](#), M. P. Bakker, A. R. Onur, D. Reuter, A. D. Wieck, and C. H. van der Wal,  
Phys. Rev. B **82**, 121308(R) (2010).
2. *Electromagnetically induced transparency in low-doped n-GaAs*  
C. H. van der Wal, M. Sladkov, [A. U. Chaubal](#), M. P. Bakker, A. R. Onur, D. Reuter, and A. D. Wieck,  
AIP Conf. Proc. **1399**, 1039 (2011).
3. *Polarization-preserving confocal microscope for optical experiments in a dilution refrigerator with high magnetic field*  
M. Sladkov, M. P. Bakker, [A. U. Chaubal](#), D. Reuter, A. D. Wieck, and C. H. van der Wal,  
Rev. Sci. Instr. **82**, 043105 (2011).
4. *Electromagnetically induced transparency as probe for nuclear spin polarization around donor-bound electrons in GaAs*  
[A. U. Chaubal](#), A. R. Onur, J. Sloot, D. O'Shea, D. Reuter, A. D. Wieck, and C. H. van der Wal,  
submitted to J. Appl. Phys.
5. *High-resolution spectroscopy of the donor-bound exciton complex in GaAs*  
[A. U. Chaubal](#)\*, A. R. Onur\*, D. Reuter, A. D. Wieck, and C. H. van der Wal, in preparation (\* equal contributions).
6. *Spectral dependence of optically induced dynamic nuclear spin polarization in n-GaAs*  
A. R. Onur, [A. U. Chaubal](#), D. Reuter, A. D. Wieck, and C. H. van der Wal, in preparation.

