

# Michał Nowak

## Lista publikacji

z dnia 31 października 2012

### Publikacje w czasopismach

1. **Nowak M. P.**, Szafran B., Peeters F. M., 2012, *Resonant harmonic generation and collective spin rotations in electrically driven quantum dots*, Physical Review B 86: 125428.
2. **Nowak M. P.**, Szafran B., Peeters F. M., 2011, *Fano resonances and electron spin transport through a two-dimensional spin-orbit-coupled quantum ring*, Physical Review B 84: 235319.
3. **Nowak M. P.**, Szafran B., Peeters F. M., Partoens B., Pasek W. J., 2011, *Tuning of the spin-orbit interaction in a quantum dot by an in-plane magnetic field*, Physical Review B 83: 245324.
4. **Nowak M. P.**, Szafran B., 2011, *Singlet-triplet avoided crossings and effective g-factor versus spatial orientation of spin-orbit-coupled quantum dots*, Physical Review B 83: 035315.
5. **Nowak M. P.**, Szafran B., 2010, *Time-dependent configuration-interaction simulations of spin swap in spin-orbit-coupled double quantum dots*, Physical Review B 82: 165316.
6. **Nowak M. P.**, Szafran B., 2010, *Coupling of bonding and antibonding electron orbitals in double quantum dots by spin-orbit interaction*, Physical Review B 81: 235311.
7. **Nowak M. P.**, Szafran B., 2009, *Spin-orbit coupling effects in two-dimensional circular quantum rings: Elliptical deformation of confined electron density*, Physical Review B 80: 195319.
8. Szafran B., **Nowak M. P.**, Bednarek S., Chwiej T., Peeters F. M., 2009, *Selective suppression of Dresselhaus or Rashba spin-orbit coupling effects by the Zeeman interaction in quantum dots*, Physical Review B 79: 235303.
9. **Nowak M. P.**, Szafran B., Peeters F. M., 2008, *Manipulation of two-electron states by the electric field in stacked self-assembled dots*, Journal of Physics: Condensed Matter 20: 395225.

### Prace pokonferencyjne i doniesienia zjazdowe:

1. **Nowak M. P.**, Szafran B., 2012, *Two-electron electric dipole spin resonance in coupled quantum dots*, Book of Abstracts: Spintech, 41<sup>st</sup> "Jaszowiec" International School and Conference on the Physics of Semiconductors, Krynica Zdrój, Poland.
2. **Nowak M. P.**, Szafran B., Peeters F. M. and Partoens B., 2011, *Spin-orbit coupling anisotropy and avoided-crossings in energy spectra of a quantum dot in an in-plane magnetic field*, Book of Abstracts: Spintech, 6th International School and Conference on Spintronics and Quantum Information Technology, Matsue, Japan.
3. **Nowak M. P.** and Szafran B., 2010, *Time Dependent Configuration Interaction Study of Anisotropic Spin Exchange in Laterally Coupled Quantum Dots*, Book of Abstracts: XXXIC "Jaszowiec" International School and Conference on the Physics of Semiconductors, Krynica Zdrój, Poland.
4. **Nowak M. P.**, Szafran B., Bednarek S., Chwiej T. and Peeters. F. M., 2009, *Purification of the spin-orbit coupling type by the Zeeman effect in quantum dots*, Book of Abstracts: Spintech, 5th International School and Conference on Spintronics and Quantum Information, Kraków, Poland.