Alexander N. Korotkov
List of publications

Journal papers


Book Chapters


Conference proceedings


23. R. Ruskov and A. N. Korotkov, “Quantum feedback control of solid-state qubits and their entanglement by measurement”, 12th International symposium


Conference abstracts


46. A. Korotkov, “Quantum feedback of a double-dot qubit”, *5th International Conference on Low Dimensional Structures and Devices* (Cancun, Mexico, December 12-17, 2004), Abstracts, p. 29.


64. A. N. Korotkov, "Non-projective measurement of solid-state qubits", *Quantum measurement and metrology with solid state devices* (Bad Honnef, Germany, November 1-5, 2009), Abstracts. (Invited talk)


68. A. N. Korotkov, "Quantum limits in measurement of superconducting qubits", *Coherence in superconducting qubits* (San Diego, CA, April 25-28, 2010), Abstracts. (Invited talk)

69. A. Galiautdinov and A. N. Korotkov, "Idling error and SWAP/MOVE operation in RezQu architecture for phase qubits," *APS March Meeting* (Dallas, TX, March 21-25, 2011), Bulletin of APS, v. 56, no. 1, D27.00010.


79. A. N. Korotkov, “Continuous/partial quantum measurement and feedback of solid state qubits”, *Noise information and complexity at quantum scale* (Erice, Sicily, Italy, October 6 – 12, 2013), Abstracts. (Invited talk)


**Conferences without abstracts/proceedings**


2. A. N. Korotkov, Talk at the rump session “Between deep-submicron CMOS and single electronics - is there a practical device technology in the middle?” of *the 53rd Annual Device Research Conference DRC’95* (Charlottesville, VA, June 19-21, 1995). (Invited talk)


6. A. N. Korotkov, “Continuous quantum measurement of solid-state qubits”, *QUEST’02 workshop* (Santa Fe, NM, August 5-9, 2002). (Invited talk)

7. A. N. Korotkov, “Quantum measurement and control of solid-state qubits and nanoresonators”, *QUEST’04 workshop* (Santa Fe, NM, August 9-13, 2004). (Invited talk)

8. A. N. Korotkov, “Quantum feedback control in solid-state mesoscopics”, *35th Winter Colloquium on the Physics of Quantum Electronics* (Snowbird, Utah, January 2-6, 2005). (Invited talk)

9. A. N. Korotkov, "Possible experiments on continuous quantum measurement and quantum feedback of solid-state qubits" (poster), *Quantum Nanoscience* (Noosa Heads, Queensland, Australia, January 22-26, 2006).

10. A. N. Korotkov, “Few recent topics in continuous quantum measurement of solid-state qubits”, *QUEST’06 workshop* (Santa Fe, NM, August 21-25, 2006). (Invited talk)


14. A. N. Korotkov, "Weak measurements in solid state systems: theory and experiments", *Entanglement beyond the optical regime* (Orange, CA, February 8-11, 2010). (Invited talk)

15. A. N. Korotkov, "Non-projective quantum measurement of solid-state qubits: Bayesian formalism", "Persistent Rabi oscillations and quantum feedback in solid state", "Wavefunction uncollapse and related topics" (3 lectures), *5th winter school on quantum information science* (Kending, Taiwan, Jan. 16-18, 2011). (Invited talks)


**Patents**