

## Talks presented by Peter Stano

1. *Bayesian estimation of correlation functions*, seminar at the Research Center for Quantum Information, Dubravska cesta 9, Bratislava, Slovakia, 12. September 2022
2. *Gated semiconducting spin qubits*, seminar at Parity QC, Rennweg 1, Top 314, 6020 Innsbruck, Austria, 9. September 2022
3. *A hole-spin qubit*, **invited talk** at talk at 5th International Conference on Spin-Based Quantum Information Processing, Pontresina, Switzerland, 5. September 2022
4. *Optimal phase estimation of a qubit*, **invited talk** at Seminar (online) at the Research Center for Quantum Information, Institute of Physics, Slovak Academy of Sciences, 17. March 2021
5. *Optimal frequency estimation and its application to quantum dots*, **invited talk** at CEMS Topical Meeting: Recent advances in semiconducting qubits (online), organized by CEMS, RIKEN, 9. March 2021
6. *Optimal frequency estimation and its application to quantum dots*, **invited talk** at 3KK-2021 conference (online), organized by Institute of Physics of Czech and Slovak Academies of Sciences and other scientific institutions in Czech and Slovak Republic, 27. January 2021
7. *Quantum Computer Hardware Based on Semiconductors*, **invited talk** at "Publish and Prosper": European Research "Day and Night" Joint Seminar, EURAXESS Japan, Zoom webinar, 9. December 2020
8. *Quantum information processing with semiconductors*, Joint Seminar of Department of Applied Physics, University of Tokyo, Hongo 7-3-1, Bunkyo-ku, Tokyo, 7. February 2020
9. *Theory and experiments with gated quantum dots in GaAs*, **invited talk** at Quantum Spins at the Nanoscale: Recent Theoretical Advances, Ewha Womans University, Seoul, South Korea, 27. May 2019

10. *Helical order in one-dimensional conductors as a synthetic spin-orbit interaction, **invited talk** at JPS Annual Meeting, Ito Campus, Fukuoka, Japan, 15. March 2019*
11. *Theory and modeling of gated quantum dot qubits in GaAs: orbital and spin effects of the magnetic field, 10th International conference Solid State Surfaces and Interfaces, Smolenice, Slovakia, 20. November 2018*
12. *Theory and modeling of gated quantum dot qubits in GaAs: orbital and spin effects of the magnetic field, **invited talk** at Spin Qubit 4, Steigenberger Inselhotel, Konstanz, Germany, 14. September 2018*
13. *Theory of g-factor in quantum dots, Nasu 8th Summer School on Semiconductor/Superconducting Quantum Coherence Effects and Quantum Information, Nasu, Tochigi, Japan, 4. September 2018*
14. *Effects of an in-plane magnetic field on a quasi-2D quantum dot, **invited talk** at China-Japan International Workshop on Quantum Technologies, QTech2018, Hefei, China, 23. August 2018*
15. *Orbital effects of an in-plane field in a 2DEG quantum dot, APS March Meeting, Los Angeles, USA, 8. March 2018*
16. *Helical order in one dimensional semiconductors, **invited talk** at ATI Spintronics Workshop, TKP Garden City Ochanomizu, Tokyo, Japan, 15. November 2017*
17. *Majorana Bound States in Magnetic Skyrmions, CEMS Symposium on Trends in Condensed Matter Physics, Wako, RIKEN, Japan, 8. November 2017*
18. *Nuclear spins in quantum dot spin qubits, International Symposium on Hybrid Quantum Systems (HQS 2017), Miyagi Zao Royal Hotel, Zao, Miyagi, Japan, 11. September 2017*
19. *Spin relaxation in quantum dots, 7th Summer School on Semiconductor/Superconducting Quantum Coherence Effect and Quantum Information, Hotel LaforetShuzenji, Izu, Shizuoka, Japan, 27. August 2017*

20. *Resistance of the topological insulator edge mode due to nuclear spins, TOP-SPIN 3: Spin and Topological Phenomena in Nanostructures - Towards Topological Materials Science, IFW Dresden, Germany, 27. April 2017*
21. *How to measure the spin-orbit interactions in a quantum dot, SFB Seminar, University of Regensburg, Germany, 2. May 2017*
22. *Nuclear spin-induced localization of the edge states in two-dimensional topological insulators, Collective Spin Transport in Electrical Insulators, International Institute of Physics, Natal, Brazil, 8. May 2017*
23. *Dephasing of a Singlet-Triplet Qubit in a Gated GaAs Dot due to Non-Ergodic Hyperfine Noise, **invited talk** at Spin Coherence and Topological Order in Semiconductor Nanosystems, CSRC, Beijing, China, 3. November 2016*
24. *Fractional charges in quantum dot arrays with density modulation, Nasu 6th Summer School on Semiconductor/Superconducting Quantum Coherence Effects and Quantum Information, Nasu, Tochigi, Japan, 23. September 2016*
25. *Majorana bound states in magnetic skyrmions, **invited talk** at SPIE NanoScience + Engineering Symposium, San Diego, USA, 31. August 2016*
26. *Footprints of hyperfine, spin-orbit, and decoherence effects in Pauli spin blockade, 33rd International Conference on the Physics of Semiconductors (ICPS2016), Peking, China, 4. August 2016*
27. *Fractional charges in quantum dot arrays with density modulation, **invited talk** at 20th Symposium on Topological Quantum Information, Athens, Greece, 25. May 2016*
28. *Fractional charges in quantum dot arrays with density modulation, **invited talk** at China-Japan International Workshop on Quantum Technologies (QTech2016), Peking University, Beijing, China, 13. May 2016*

29. *Nuclear spin control for realization of quantum information hardware, invited talk for the CEMS Award, RIKEN, Wako, Japan, 27. April 2016*
30. *How to measure spin current, Nasu 4th Summer School on Semiconductor/Superconducting Quantum Coherence Effects and Quantum Information, Nasu, Tochigi, Japan, 11. September 2015*
31. *Helical order in one dimensional semiconductors, **invited talk** at Spintech 8, Basel, Switzerland, 11. August 2015*
32. *Fast Long-Distance Control of Spin Qubits by Photon Assisted Cotunneling, APS March Meeting, San Antonio, USA, 4. March 2015*
33. *NMR response of nuclear-spin helix in quantum wires with hyperfine and spin-orbit interaction, International Symposium on Quantum System and Nuclear Spin Related Phenomena, Zao, Miyagi, Japan, 18. February 2015*
34. *Photon Assisted Cotunneling in Quantum Dot Spin Qubits, Nasu 4th Summer School on Semiconductor/Superconducting Quantum Coherence Effects and Quantum Information, Nasu, Tochigi, Japan, 11. September 2014*
35. *Helical order in one dimensional semiconductors, **invited talk** at SPIE NanoScience + Engineering Symposium, San Diego, USA, 18. August 2014*
36. *Fast Long-Distance Control of Spin Qubits by Photon Assisted Cotunneling, Department of Physics, University of Basel, Switzerland, 29. July 2014*
37. *Spin Hot Spots in Quantum Dots, **invited talk** at DPG Tagungen, Dresden, Germany, 31. March 2014*
38. *Helical order in one dimensional semiconductors, Seminar, Department of Physics, University of Regensburg, Germany, 18. March 2014*
39. *Majorana fermions, Seminar, Physical Institute, Slovak Academy of Sciences, Bratislava, Slovakia, August 2013*

40. *Spin Order in Charged Magnetic Quantum Dots, CMOS Symposium, Whistler, BC, Canada, July 2013*
41. *Random Lasers in the Anderson Localized Regime, Seminar, Department of Physics, University of Regensburg, Germany, May 2013*
42. *Random Lasers in the Anderson Localized Regime, Friday Seminar, Department of Physics, FEI STU, Bratislava, Slovakia, March 2013*
43. *Classical and quantum time crystals, Seminar, Department of Theoretical Physics, FMFI UK, Bratislava, Slovakia, March 2013*
44. *Measuring spin currents in mesoscopic conductors, Seminar, University of Geneva, Switzerland, 24th January 2012*
45. *Electrical measurement of spin currents and accumulations, SFB Seminar, University of Regensburg, Germany, November 2011*
46. *Measuring spin current in mesoscopic conductors, Spintronic Days in Bilbao, University of Basque Country, Spain, July 2011*
47. *Theory of anisotropic exchange in laterally coupled quantum dots, APS March Meeting, Dallas USA, March 2011*
48. *Measuring mesoscopic spin currents by spin-to-charge conversion, APS March Meeting, Dallas USA, March 2011*
49. *Spin dependent tunneling into lateral quantum dot, APS March Meeting, Dallas USA, March 2011*
50. *Spin dependent tunneling in quantum dots, Seminar of Physics Institute, Univerzity at Buffalo, New York, USA, November 2010*
51. *Spin qubits in quantum dots, Seminar of the Physics Department, Univerity of Arizona, Tucson, USA, September 2009*
52. *Spin qubits in quantum dots, Quantum Lunch Seminar, Los Alamos National Lab, New Mexico, USA, August 2009*
53. *Single electron spintronics, Seminar, Physical Institute, Slovak Academy of Sciences, Bratislava, Slovakia, October 2008*

54. *Electron spin decoherence induced by nuclear spin environment, 413. WE-Heraeus Seminar, Bad Honnef, Germany, October 2008*
55. *Current through a quantum dot using Landauer-Büttiker formalism, Non-local Seminar, University of Vienna, June 2008*
56. *Spin-orbit anisotropy in single electron lateral quantum dots, Seminar, University of science and technology Hefei, China, Mai 2008*
57. *Relaxation, dephasing, and decoherence in quantum dot spin qubit, Seminar, University of science and technology Hefei, China, Mai 2008*
58. *Relaxation, dephasing, and decoherence in quantum dot spin qubit, Seminar, Komenius University, April 2008*
59. *Role of anisotropy of spin-orbit interaction in semiconductor quantum dot spin qubits, QAP workshop, University of Stuttgart, Germany, June 2007*
60. *Control of electron spin and orbital resonance in quantum dots through spin-orbit interactions, APS March meeting, Denver, USA, March 2007*
61. *Spin relaxation in coupled quantum dots, APS March meeting, Baltimore, USA, March 2006*
62. *Spin relaxation in coupled quantum dots, DPG Tagungen, Dresden, Germany, March 2006*
63. *Spin relaxation in single and double quantum dots, University of Regensburg, Germany, Mai 2005*
64. *Influence of the spin orbit interaction on the energy spectrum of quantum dots, University of Graz, Austria, November 2004*
65. *Spin properties of single electron states in coupled quantum dots, 42. international winter school of physics, Schladming, Austria, February 2004*