



QUENTIN GLORIEUX

LABORATOIRE KASTLER BROSSEL
SORBONNE UNIVERSITY - ENS - CNRS
(+33) 1.4427.4189
quentin.glorieux@sorbonne-universite.fr
www.quantumoptics.fr/glorieux
Researcher ID : K-4875-2012

PEER-REVIEWED JOURNAL PAPERS [STATISTICS][ARXIV]

27. Q. Fontaine, T. Bienaime, S. Pigeon, E. Giacobino, A. Bramati, **Q. Glorieux**. Observation of the Bogoliubov dispersion in a fluid of light, *Phys. Rev. Lett. - Editors' Suggestion*, **121**, 183604, (2018).
26. M. Joos, C. Ding, V. Loo, G. Blanquer, E. Giacobino, A. Bramati, V. Krachmalnicoff, **Q. Glorieux**. Polarization Control of Linear Dipole Radiation Using an Optical Nanofiber. *Physical Review Applied*, **9**, 064035 (2018).
25. M. Manceau, S. Vezzoli, **Q. Glorieux**, E. Giacobino L. Carbone, M. De Vittorio J-P. Hermier, A. Bramati. CdSe/CdS dot-in-rods nanocrystals fast blinking dynamics. *ChemPhysChem*, **19**, 1. (2018).
24. T. Boulier, E. Cancellieri, N. D Sangouard, R. Hivet, **Q. Glorieux**, E. Giacobino, A. Bramati. Lattices of quantized vortices in polariton superfluids. *Comptes Rendus Académie des Sciences. Comptes Rendus Physique* **17**, 893 (2016).
23. T. Boulier, E. Cancellieri, N. D. Sangouard, **Q. Glorieux**, A. V. Kavokin, D. M. Whittaker, E. Giacobino, and A. Bramati. Injection of Orbital Angular Momentum and Storage of Quantized Vortices in Polariton Superfluids. *Phys. Rev. Lett.* **116**, 116402 (2016).
22. W. Geng, M. Manceau, N. Rahbany, V. Sallet, M. De Vittorio, L. Carbone, **Q. Glorieux**, A. Bramati, C. Couteau. Localised excitation of a single photon source by a nanowaveguide. *Scientific Reports* **6**, 19721 (2016).
21. S. Vezzoli, M. Manceau, G. Leménager, **Q. Glorieux**, E. Giacobino, L. Carbone, M. De Vittorio, A. Bramati. Exciton Fine Structure of CdSe/CdS Nanocrystals Determined by Polarization Microscopy at Room Temperature. *ACS Nano* **9**, 7992 (2015).
20. T. Boulier, H. Tercas, DD. Solnyshkov, **Q. Glorieux**, E. Giacobino, G. Malpuech, A. Bramati. Vortex chain in a resonantly pumped polariton superfluid. *Scientific Reports* **5**, 9230 (2015).
19. J.B. Clark, R.T. Glasser, **Q. Glorieux**, U. Vogl, T. Li, K.M. Jones, and P.D. Lett. Quantum mutual information of an entangled state propagating through a fast-light medium. *Nature Photonics* **8**, 515 (2014).
18. M. Manceau, S. Vezzoli, **Q. Glorieux**, F. Pisanello, E. Giacobino, L. Carbone, M. De Vittorio, A. Bramati. Effect of charging on CdSe/CdS dot-in-rods single-photon emission. *Phys. Rev. B* **90**, 035311 (2014).
17. U. Vogl, R. T Glasser, J. B Clark, **Q. Glorieux**, T. Li, N. V Corzo, P. D Lett. Advanced quantum noise correlations. *New Journal of Physics*, **16**, 013011 (2014).

16. NV. Corzo, **Q. Glorieux**, AM. Marino, JB. Clark, RT. Glasser, PD. Lett. Rotation of the noise ellipse for squeezed vacuum light generated via four-wave mixing. *Physical Review A* **88**, 043836 (2013).
15. B.M. Sparkes, J. Bernu, M. Hosseini, J. Geng, **Q. Glorieux**, P.A. Altin, P.K. Lam, N.P. Robins, B.C. Buchler. Gradient echo memory in an ultra-high optical depth cold atomic ensemble. *New Journal of Physics* **15**, 085027 (2013).
14. JB. Clark, **Q. Glorieux**, PD. Lett. Spatially addressable readout and erasure of an image in a gradient echo memory. *New Journal of Physics* **15**, 035005 (2013).
13. U. Vogl, RT. Glasser, **Q. Glorieux**, JB. Clark, NV. Corzo, PD. Lett. Experimental characterization of Gaussian quantum discord generated by four-wave mixing. *Physical Review A* **87**, 010101 (2013).
12. BM. Sparkes, J. Bernu, M. Hosseini, J. Geng, **Q. Glorieux**, PA. Altin, PK. Lam, NP. Robins, BC. Buchler. An ultra-high optical depth cold atomic ensemble for quantum memories. *Journal of Physics*, **467** 012009 (2013).
11. **Q. Glorieux**, JB. Clark, NV. Corzo, PD. Lett. Generation of pulsed bipartite entanglement using four-wave mixing. *New Journal of Physics* **14**, 123024 (2012).
10. AM. Marino, JB. Clark, **Q. Glorieux**, PD. Lett. Extracting spatial information from noise measurements of multi-spatial-mode quantum states. *European Physical Journal D* **66**, 1 (2012).
9. **Q. Glorieux**, J.B. Clark, A.M. Marino, Z. Zhou, P D. Lett, Temporally multiplexed storage of images in a gradient echo memory. *Optics Express* **20**, 12350 (2012).
8. JB. Clark, Z. Zhou, **Q. Glorieux**, AM. Marino, PD. Lett. Imaging using quantum noise properties of light. *Optics Express* **20**, 17050 (2012).
7. **Q. Glorieux**, L. Guidoni, S. Guibal, JP. Likforman, T. Coudreau. Quantum correlations by four-wave mixing in an atomic vapor in a nonamplifying regime: Quantum beam splitter for photons. *Physical Review A* **84**, 053826 (2011).
6. IH. Agha, C. Giarmatzi, **Q. Glorieux**, T. Coudreau, P. Grangier, G. Messin. Time-resolved detection of relative-intensity squeezed nanosecond pulses in an ^{87}Rb vapor. *New Journal of Physics* **13**, 043030 (2011).
5. **Q. Glorieux**, R. Dubessy, S. Guibal, L. Guidoni, J.-P. Likforman, T. Coudreau, and E. Arimondo, Double- Λ microscopic model for entangled light generation by four-wave mixing. *Phys. Rev. A* **82**, 033819 (2010).
4. **Q. Glorieux**, T. Coudreau, L. Guidoni, JP. Likforman. Strong quantum correlations in four wave mixing in ^{85}Rb vapor. *Proc. of SPIE* **7727**, 772703 (2010).
3. S. Removille, R. Dubessy, **Q. Glorieux**, S. Guibal, T. Coudreau, L. Guidoni, JP. Likforman. Photoionisation loading of large Sr^+ ion clouds with ultrafast pulses. *Applied Physics B* **97**, 47 (2009).
2. S. Removille, R. Dubessy, B. Dubost, **Q. Glorieux**, T. Coudreau, S. Guibal, JP. Likforman, L. Guidoni. Trapping and cooling of Sr^+ ions: strings and large clouds. *Journal of Physics B* **42**, 154014 (2009).
1. V. Detalle, **Q. Glorieux**, R. Bruder, D. L'Hermite, A. Semerok. Laser induced breakdown spectroscopy (LIBS): a new analytical technique for in situ study of painted artworks. *Actualites Chimiques*, **98**, 104 (2007).

