

Bibliographie de Anh -Tuan NGYUEN

Liste des publications scientifiques :

- [1] **A.T. Nguyen**, K. Phan Huy, E. Brainis, P. Mergo, J. Wojcik, T Nasilowski, J. Van Erps, H. Thienpont, and S. Massar, '*Enhanced cross phase modulation instability in birefringent photonic crystal fibers in the anomalous dispersion regime*', Opt. Express **14** (18), 8290 (2006)
- [2] **A.T. Nguyen**, K. Phan Huy, E. Brainis, P. Mergo, J. Wojcik, T Nasilowski, J. Van Erps, H. Thienpont, and S. Massar, "*Enhancement of vector modulational instability*", presented at the EPS Europhoton2006 conference, 10-15 September 2006, Pisa (Italy) TuC9 paper
- [3] **A.T. Nguyen**, K. Phan Huy, E. Brainis, M. Haelterman, Ph. Emplit, C. Corbari, A. Canagasabey, M. Ibsen, P.G. Kazansky, O. Deparis, A. Fotiadi, P. Mégret and S. Massar, "*Towards a photon pair source using periodically poled twin-hole silica fibre*", presented at the 8th International Conference on Quantum Communication, Measurement and Computing, 28 November – 3 December 2006, Tsukuba (Japan) P3-3 paper
- [4] K. Phan Huy, **A.T. Nguyen**, E. Brainis, M. Haelterman, P. Emplit, C. Corbari, A. Canagasabey, P. G. Kazansky, O. Deparis, A. A. Fotiadi, P. Mégret, and S. Massar, "*Photon pair source based on parametric fluorescence in periodically poled twin-hole silica fiber*," Opt. Express **15**, 4419-4426 (2007)
- [5] K. Phan Huy, **A.T. Nguyen**, E. Brainis, M. Haelterman, P. Emplit, C. Corbari, A. Canagasabey, M. Ibsen, P. G. Kazansky, O. Deparis, A. A. Fotiadi, P. Mégret, and S. Massar, "*Photon pair source based on parametric fluorescence in periodically poled twin-hole silica fiber*", presented at CLEO/Europe-IQEC 2007, 17-22 Juin 2007, Munich (Germany), IF-17-TUE paper
- [6] **A.T. Nguyen**, K. Phan Huy, E. Brainis, M. Haelterman, Ph. Emplit, C. Corbari, A. Canagasabey, M. Ibsen, P.G. Kazansky, O. Deparis, A. Fotiadi, P. Mégret and S. Massar, "*Two-photons interferences in fiber interferometers*" , presented at the 12th annual Symposium of the IEEE/LEOS Benelux Chapter, 17-18 December 2007, Brussels (Belgium), P39 paper
- [7] S. Massar, K. Phan Huy, E. Brainis, **A.T. Nguyen**, M. Haelterman, Ph. Emplit, N. Cerf, L.-Ph. Lamoureux, D. Amans, C. Corbari, A. Canagasabey, M. Ibsen, P. G. Kazansky, A. Fotiadi, P. Mégret, O. Deparis '*Three topics in quantum communication: error filtration, quantum string flipping, photon pair generation in periodically poled fibers*' in « Quantum Communication and Security », Edited by M. Zukowski, S. Kilin, J. Kowalik (2007) IOS Press, ISBN 978-1-58603-749-9, pp.3-10
- [8] **A.T. Nguyen**, J. Frison, K. Phan Huy and S. Massar, "*Experimental quantum tossing of a single coin*", New J. Phys. **10** (8), 083037 (2008)
- [9] **A.T. Nguyen**, J. Frison, K. Phan Huy and S. Massar, "*Experimental Realization of Single Quantum Coin Tossing in Optical Fibers at Telecommunication Wavelength*", presented at the Fourth Asia Pacific Conference in Quantum Information Science (APCQIS), 2-5 July 2008, Cairns (Australia), A38 paper

[10] **A.T. Nguyen**, J. Frison, K. Phan Huy and S. Massar, "*Fiber Optics Implementation of Single Quantum Coin Tossing*", presented at the European Conference on Optical Communication (ECOC2008) , 21-27 September 2008, Brussels (Belgium), Mo.4.F.4 paper.

[11] L. Olislager, J. Cussey, **A.T. Nguyen**, Ph. Emplit, S. Massar, J.-M. Merolla, and K. Phan Huy, "*Manipulating Frequency Entanglement with Phase Modulators*", presented at the International Conference on Quantum Information Processing and Communication (QIPC 2009), 21-25 septembre 2009, Rome (Italy)

[12] L. Olislager, J. Cussey, **A.T. Nguyen**, Ph. Emplit, S. Massar, J.-M. Merolla, and K. Phan Huy, "*Manipulating Frequency Entangled Photons*", presented at the International Conference on Quantum Communication and Quantum Networking (QuantumComm 2009), 26-30 octobre 2009, Naples (Italy)

[13] L. Olislager, J. Cussey, **A.T. Nguyen**, Ph. Emplit, S. Massar, J.-M. Merolla, and K. Phan Huy, "*Manipulating Frequency Entangled Photons*", presented at the 14th Annual Symposium of the IEEE Photonics Benelux Chapter, 5-6 novembre 2009, Bruxelles (Belgium)

[14] L. Olislager, J. Cussey, **A. T. Nguyen**, Ph. Emplit, S. Massar, J.- M. Merolla, and K. Phan Huy, "Frequency-bin entangled photons", *Phys. Rev. A* **82**, 013804 (2010)

Liste des mémoires et thèse :

- A.T. Nguyen, Utilisation de l'optique fibrée pour la manipulation et la génération d'états quantiques : pile ou face quantique et paires de photons, Thèse de doctorat, ULB (2008).
- A.T. Nguyen, Effets paramétriques dans une fibre optique périodiquement polée, Mémoire de DEA, ULB (2005).
- A.T. Nguyen, Influence de la longueur de diffusion sur les sections efficaces de capture radiative à basse énergie, Travail de fin d'études, ULB (2004)