

THANH-TUNG NGUYEN-DANG

Conférences à titre de conférencier invité / Invited talks

1. T.-T. Nguyen-Dang, *Ab-initio methods for time-resolved attosecond dynamics of laser-driven many-electron molecules*, ASILS9, Ninh-Binh, Viet-Nam, Oct. 2016.
2. T.-T. Nguyen-Dang, *Ab-initio methods for time-resolved attosecond dynamics of laser-driven many-electron molecules*, 3rd International Conference on Computational Science and Engineering, Ho Chi Minh City, Viet-Nam, Nov. 2016.
3. T.-T. Nguyen-Dang, J. Viau-Trudel, E. Couture-Bienvenue, *Ab-initio methods for time-resolved attosecond dynamics of laser-driven many-electron molecules*, QUITEL 2014, Ecuador, Galapagos Is, Nov. 2014
4. T.-T. Nguyen-Dang, *Old Ideas ... New Context: Electron Quantum Dynamics in Intense Fields*, CSC2013 (96th Canadian Chemistry Conference and Exhibition), Canada, Quebec, Québec, May, 2013. .
5. T.-T. Nguyen-Dang, *Dynamique multi électronique en présence d'impulsions laser ultra rapides et intenses*, Conférence départementale: Département de Chimie, Université de Sherbrooke, Qc, Canada, Quebec, Sherbrooke, Jan. 2013.
6. T.-T. Nguyen-Dang, *Quantum Dynamics of Correlated Electrons in Laser- Driven Molecules*, Symposium on «Quantum Imaging» - CMS winter meeting, Canada, Quebec, Montreal, Dec. 2012.
7. T. T. Nguyen-Dang, M. Peters, J. Viau-Trudel, A. Sainjon, F. Dion, *Chimie quantique et dynamique attoseconde d'électrons corrélés*, Colloque «Simulations numériques en chimie et biochimie: des petites molécules isolées aux macromolécules en phase condensée» - 80e congrès de l'ACFAS, Montreal, Mai 2012.
8. T.-T. Nguyen-Dang, *Ab-initio Modeling of Many-Electron Quantum Dynamics in Intense Ultra-Fast Laser Pulses*, Pacifichem, United States, Hawaii, Honolulu, Dec. 2010.
9. T.-T. Nguyen-Dang, *Challenges in Modeling Laser-Induced Attosecond Electron Dynamics*, Paper Conférence départementale, Département de chimie, Université de Liège, Belgium, Liège, Oct. 2010.
10. T.-T. Nguyen-Dang, *Dynamique quantique des molécules en champ intense*, 12ieme Rencontre des Chimistes Theoriciens Francophones-FUNDP, Namur, Belgium, Belgium, Namur, April 2010
11. T. T. Nguyen-Dang, *Dynamique corrélée d'électrons dans une impulsion ultra rapide et intense*, PIRMM IV, Dakhla , Morocco, April 2010.
12. T. Tung Nguyen-Dang, *Ab-initio Calculations of Laser Driven Time-Resolved Electron Dynamics*, Quantum Dynamic Imaging Workshop, CRM, Université de Montréal, Oct. 2009.
13. T. Tung Nguyen-Dang, M. Peters, S. M. Wang, *Ab-initio Modeling of Multiple Ionization Processes in Intense Laser Field*, Symposium on «Attosecond Science, The Nest Frontier», 237th ACS National Meeting, Salt-Lake City, Utah, March 2009.
14. T. Tung Nguyen-Dang, *Non-Variational TDMCSCF Method for Correlated Electron Dynamics in Ultrashort Intense Laser Pulses*, 8th CERMM Symposium, Concordia University, April 2008.

PUBLICATIONS ET ŒUVRES (2009-2017)

1. Articles publiés dans des revues avec comité de lecture (RAC):

1. T. T. Nguyen-Dang, M. Peters, J. Viau-Trudel, E. Couture-Bienvenue, R. Puthumpally-Joseph, E. Charron, O. Atabek, *Laser-Induced Electron Diffraction: alignment defects and symmetry breaking*, *Molecular Physics*, **115**, 1934-1943 (2017).
2. R. Puthumpally-Joseph, J. Viau-Trudel, M. Peters, T. T. Nguyen-Dang, O. Atabek, E. Charron, *Inversion of strong-field photoelectron spectra for molecular orbital imaging*, *Phys. Rev. A* **94**, 023421, (2016).
3. R. Puthumpally-Joseph, J. Viau-Trudel, M. Peters, T. T. Nguyen-Dang, O. Atabek, E. Charron., *Inversion of strong-field photoelectron spectra for molecular orbital imaging*. *Phys. Rev. A*, **94**, 023421 (2016).
4. T. T. Nguyen-Dang, É. Couture-Bienvenue, J. Viau-Trudel, A. Sainjon, *Time-dependent quantum chemistry of laser driven many-electron molecules*, *J. Chem. Phys.*, **141**, 244116, (2014). [CRSNG, FRQNT].
5. T. T. Nguyen-Dang, J. Viau-Trudel, *Multicomponent dynamics of coupled quantum subspaces and field-induced molecular ionizations*, *J. Chem. Phys.*, **139**, 244102, (2013). [CRSNG, FRQNT].
6. C. Lefebvre, T. T. Nguyen-Dang, F. Dion, M. J. J. Vrakking, V. N. Serov, and O. Atabek, *Attosecond pump-probe transition-state spectroscopy of laser-induced molecular dissociative ionization: Adiabatic versus nonadiabatic dressed-state dynamics*, *Phys. Rev. A*, **88**, 053416 (2013).. [CRSNG, FRQNT].
7. M. Peters, T. T. Nguyen-Dang, E. Charron, A. Keller, and O. Atabek, *Laserinduced electron diffraction: A tool for molecular orbital imaging*, *Phys. Rev. A*, **85**, 053417 (2012).. [CRSNG, FRQNT].
8. M. Peters, T. T. Nguyen-Dang, C. Cornaggia, S. Saugout, E. Charron, A. Keller and O. Atabek, *Ultrafast Molecular Imaging by Laser-Induced Electron Diffraction*, *Phys. Rev. A*, **83**, 051403(R), (2011).. [CRSNG, FRQNT].
9. M. Peters, T. T. Nguyen-Dang, O. Atabek, *Intense Laser-induced Molecular Processes: From Imaging to Control*, *Phys. Chem. News*, **57**, 01 (2011).. [CRSNG, FRQNT].
10. O. Atabek, R. Lefebvre, T.-T. Nguyen-Dang, *Unstable States in Laser Assisted and Controlled Molecular Processes*, *Adv. Quantum Chem.*, **60**, 51-104 (2010). [CRSNG, FRQNT].
11. T. T. Nguyen-Dang, M. Peters, S-M.Wang and F. Dion, *Toward Ab-initio Simulations of Multiple Ionization Processes in Intense Laser Field*, *Chem. Phys* **366**, 71, (2009). [CRSNG, FRQNT].
12. T. T. Nguyen-Dang, M. Peters, S-M.Wang and F. Dion, *Strong Field Ionization of Many Electron Systems: A Quantum Chemical Challenge*, *Laser Phys.* **19**, 1521, (2009). [CRSNG, FRQNT].
13. F. Kelkensberg, C. Lefebvre, W. Siu, O.Ghafur, T. T. Nguyen-Dang, O. Atabek, A. Keller, V. Serov, P. Johnsson, M. Swoboda, T. Remetter, A. L'Huillier, S. Zherebtsov, G. Sansone, E. Benedetti, F. Ferrari, M. Nisoli, F. Lépine, M. F. Kling and M. J. J. Vrakking, *Molecular Dissociative Ionization and Wave Packet Dynamics Studied using Two-Colour XUV+IR Pump-Probe Spectroscopy*, *Phys. Rev. Lett* **103**,123005,(2009). [CRSNG, FRQNT].