

Articles dans des revues internationales avec comité de lecture (ACL)

Articles publiés par les membres permanents

- [ACL1] Adimurthi, Esteban M.J. An improved Hardy-Sobolev inequality in $W^{s,p}$ and its application to Schrödinger operators. *NoDEA Nonlinear Differential Equations Appl.*, 12(2) : p. 243–263, 2005.
- [ACL2] Al Khoury P., Chavent G. Global line search strategies for nonlinear least squares problems based on curvature and projected curvature. *Inverse Probl. Sci. Eng.*, 14(5) : p. 495-509, 2006.
- [ACL3] Aliprantis C.D., Florenzano M., Martins-da-Rocha V.F., Tourky R. Equilibrium analysis in financial markets with countably many securities. *J. Math. Econom.*, 40(6) : 2004.
- [ACL4] Aloisio A., Martins-da-Rocha V.F., Monteiro P.K. Equilibria in reflexive Banach commodity spaces with a continuum of agents. *Econom. Theory*, Vol. 24(3) : 2004.
- [ACL5] Amzal B., Bois F., Parent E., Robert C.P. Bayesian optimal design via interacting MCMC. *J. Amer. Statist. Assoc.*, 101(474) : p. 773-785, 2006.
- [ACL6] Arbelaez P., Cohen L.D. Energy Partitions and Image Segmentation. *J. Math. Imaging Vision*, 20(1-2) : p. 43–57, 2004.
- [ACL7] Arbelaez P., Cohen L.D. A Metric Approach to Vector-Valued Image Segmentation. *Internat. J. Computer Vision*, 69(1) : p. 119–126, 2006.
- [ACL8] Arbelaez P.A., Cohen L.D. Segmentation d'Images Couleur par partitions de Voronoi. *Traitemen du Signal*, Volume 21 numéro 5, Numéro spécial : L'image numérique couleur, p. 407-421, Février, 2005.
- [ACL9] Ardon R., Cohen L.D. Fast Constrained Surface Extraction by Minimal Paths. *Internat. J. Computer Vision*, 69(1) : p. 127–136, 2006.
- [ACL10] Ardon R., Cohen L.D., Yezzi A. Fast surface segmentation guided by user input using implicit extension of minimal paths. *J. Math. Imaging Vision*, 25(3) : p. 289–305, 2006.
- [ACL11] Ardon R., Cohen L.D., Yezzi A. A new implicit method for surface segmentation by minimal paths in 3D images. *Applied Mathematics and Optimization*, 55(2) : p. 127-144, March, 2007.

- [ACL12] Arnold A., Dolbeault J. Refined convex Sobolev inequalities. *J. Funct. Anal.*, 225(2) : p. 337–351, 2005.
- [ACL13] Arnold A., Bartier J.-P., Dolbeault J. Interpolation between logarithmic Sobolev and Poincaré inequalities. *Communications in mathematical sciences* : to appear, 2007.
- [ACL14] Arnold A., Carrillo J.A., Desvillettes L., Dolbeault J., Jüngel A., Lederman C., Markowich P. A., Toscani G., Villani C. Entropies and equilibria of many-particle systems : an essay on recent research. *Monatsh. Math.*, 142(1-2) : p. 35–43, 2004.
- [ACL15] Arnold V. I. On the matricial version of Fermat-Euler congruences. *Jpn. J. Math.* 1(1) : pp. 1–24, 2006.
- [ACL16] Arnold V. I. Ergodic and arithmetical properties of geometrical progression's dynamics and of its orbits. *Mosc. Math. J.* 5(1) : pp. 5–22, 2005.
- [ACL17] Arnold V. I. Number-theoretical turbulence in Fermat-Euler arithmetic and large Young diagrams geometry statistics. *J. Math. Fluid Mech.* 7 suppl. 1, S4–S50, 2005 .
- [ACL18] Arnold V. I. Lobachevsky triangle altitudes theorem as the Jacobi identity in the Lie algebra of quadratic forms on symplectic plane. *J. Geom. Phys.* 53 (4) : pp. 421–427, 2005.
- [ACL19] Astic F., Touzi N. No arbitrage conditions and liquidity. *J. Math. Econom.*, 43(6) : p. 692–708, 2007.
- [ACL20] Balabdaoui F., Rufibach K. A second Marshall inequality in convex estimation. *Statistics and Probability Letters*, to appear.
- [ACL21] Balabdaoui F., Wellner J.A. A Kiefer-Wolfowitz theorem for convex densities. *IMS Lecture Notes*, 55 : p. 1-31, 2006.
- [ACL22] Balabdaoui F., Wellner J.A. Estimation of a k -monotone density : A new asymptotic distribution theory. *Ann. Statist.*, to appear.
- [ACL23] Balabdaoui F., Bocquet-Appel J.-P., Lajaunie C., Irudaya Rajan S. Space-time evolution of the fertility transition in India, 1961-1991. *International Journal of Geographic Demography*, 7 : p. 129-148, 2006.
- [ACL24] Balabdaoui F. Consistent estimation of a convex density at the density. *Mathematical Methods of Statistics*, 16(2) : p. 1-21, 2006.
- [ACL25] Baranger C., Mouhot C. Explicit spectral gap estimates for the linearized Boltzmann and Landau operators with hard potentials. *Rev. Mat. Iberoamericana*, 21(3) : p. 819-841, 2005.
- [ACL26] Barbaroux J.M., Esteban M.J., Séré E. Some connexions between Dirac-Fock and electron-positron Hartree-Fock. *Ann. Institut. H. Poincaré Anal. Non Linéaire*, 6(1) : p. 85-102, 2005.
- [ACL27] Bardos C., Catto I., Mauser N., Trabelsi S. Condition suffisante d'existence globale d'une solution régulière pour les méthodes de type Multiconfiguration (MCTDHF). Accepté pour publication dans *C. R. Acad. Sci. Paris Sér. I Math.*, 2007.

- [ACL28] Bartier J.-P., Dolbeault J. Convex Sobolev inequalities and spectral gap. C. R. Math. Acad. Sci. Paris, 342(5) : p. 307-312, 2006.
- [ACL29] Bartier J.-P., Dolbeault J., Illner R., Kowalczyk M. A qualitative study of linear drift-diffusion equations with time-dependent or degenerate coefficients. Math. Models Methods Appl. Sci., 17(3) : p. 327-362, 2007.
- [ACL30] Basile G., Bernardin C., Olla S. Momentum conserving model with anomalous thermal conductivity in low dimensional. Phys. Rev. Lett., 96 : p. 204303, 2006.
- [ACL31] Basile G., Delfini L., Lepri S., Livi R., Olla S., Politi A. Anomalous Transport and Relaxation in Classical One-Dimensional Models. European Physics Journal, Special Topics : to appear, 2007.
- [ACL32] Ben Tahar I., Bouchard B. Barrier option hedging under constraints : a viscosity approach. SIAM J. Control Optim., 45(5) : p. 1846-1874, 2006.
- [ACL33] Ben Tahar I., Bouchard B. Explicit characterization of the super-replication strategy in financial markets with partial transaction costs. Stochastic Process. Appl., 117(5) : p. 655-672, 2007.
- [ACL34] Benguria R.D., Catto I., Dolbeault J., Monneau R. Oscillating minimizers of a fourth order problem invariant under scaling. J. Differential Equations, 205(1) : p. 253-269, 2004.
- [ACL35] Benmansour S., Jouini E., Napp C. Is There a Pessimistic Bias in Individual Beliefs ? Evidence from a Simple Survey. Theory and Decision, 61 : p. 345-362, 2006.
- [ACL36] Bensoussan A., Touzi N., Menaldi J.-L. Penalty approximation and analytical characterization of the problem of super-replication under portfolio constraints. Asymptot. Anal., 41(3-4) : p. 311-330, 2005.
- [ACL37] Bernard P., Contreras G. A generic property of families of Lagrangian systems. Ann. of Math. (2) : to appear, 2007.
- [ACL38] Bernard P., Buffoni B. Optimal mass transportation and Mather theory. J. Eur. Math. Soc. (JEMS), vol 9(1) : p. 85-122., 2007.
- [ACL39] Bernard P., Buffoni B. The Monge problem for supercritical Mane potentials on compact manifolds. Advances in Mathematics 207(2) : p. 691-706, 2006.
- [ACL40] Bernard P., Buffoni B. Weak KAM pairs and Monge-Kantorovich duality. Advanced Studies in Pure and Applied Mathematics, no. 47-2, p. 397-420, 2007.
- [ACL41] Bernard P. Existence of $C^{1,1}$ critical sub-solutions of the Hamilton-Jacobi equation on compact manifolds. Ann. Sci. École Norm. Sup. (4) : to appear, 2007.
- [ACL42] Bernard P. Smooth critical sub-solutions of the Hamilton-Jacobi equation. Math. Res. Lett. : to appear, 2007.
- [ACL43] Bernard P. Symplectic aspects of Aubry Mather Theory. Duke Math. J., 136(3) : p. 401-420, 2007.

- [ACL44] Bernard P. The dynamics of pseudographs in convex Hamiltonian systems. J. Amer. Math. Soc. : to appear, 2007.
- [ACL45] Bernard P. Young measures, superposition and transport. Indiana Univ. Math. J. : to appear, 2007.
- [ACL46] Bernardin C., Olla S. Fourier law and fluctuations for a microscopic model of heat conduction. J. Stat. Phys., 118(3-4) : p. 271-289, 2005.
- [ACL47] Billard L., Diday E. Descriptive Statistics for Interval-valued Observations in the Presence of Rules. Computational Statistics 21 : 187-210, 2006.
- [ACL48] Billard L., Diday E. From the Statistics of Data to the Statistics of Knowledge : Symbolic Data Analysis. J. Amer. Statist. Assoc., 98(462), 2003.
- [ACL49] Bzid A., Jouini E. Equilibrium Pricing in incomplete markets. Journal of Financial and Quantitative Analysis, 40(4), 2006.
- [ACL50] Blanc X., Le Bris C., Lions P.-L. Atomistic to continuum limits for computational materials science. M2AN Math. Model. Numer. Anal., 41 : p. 391-426, 2007.
- [ACL51] Blanc X., Le Bris C., Lions P.-L. Du discret au continu pour des modèles de réseaux aléatoires d'atomes. C. R. Math. Acad. Sci. Paris, 342(8) : p. 627-633, 2006.
- [ACL52] Blanc X., Le Bris C., Lions P.-L. On the energy of some microscopic stochastic lattices. Arch. Ration. Mech. Anal., 184(2) : p. 303-340, 2007.
- [ACL53] Blanc X., Le Bris C., Lions P.-L. Stochastic homogenization and random lattices. J. Math. Pures Appl. (9) 88(1) : p. 34-63, 2007.
- [ACL54] Blanchet A., Bonforte M., Dolbeault J., Grillo G., Vazquez J.-L. Hardy-Poincaré inequalities and applications to nonlinear diffusions. C. R. Math. Acad. Sci. Paris, 344(7) : p. 431–436, 2007.
- [ACL55] Blanchet A., Dolbeault J., Monneau R. On the continuity of the time derivative of the solution to the parabolic obstacle problem with variable coefficients. J. Math. Pures Appl. (9), 85(3) : p. 371-414, 2006.
- [ACL56] Blanchet A., Dolbeault J., Perthame B. Two-dimensional Keller-Segel model : Optimal critical mass and qualitative properties of the solutions. Electron. J. Differential Equations, 44 : 32 pp. (electronic), 2006.
- [ACL57] Bolley F., Guillin A., Villani C. Quantitative concentration inequalities for empirical measures on non-compact spaces. Probab. Theory Related Fields, 137 : p. 541–593, 2007.
- [ACL58] Bonneau S., Dahan M., Cohen L.D. Single Quantum Dot tracking based on perceptual grouping using minimal paths in a spatio-temporal volume. IEEE Trans. Image Process, 14(9) : p. 1384–1395, 2005.

- [ACL59] Borzì A., Salomon J., S. Volkwein. Cascadic non-linear conjugate gradient solution to finite-level quantum optimal control problems. *J. Comp. App. Math.* : to appear 2007.
- [ACL60] Bosi R., Dolbeault J., Esteban M.J.. Estimates for the optimal constants in multipolar Hardy inequalities for Schrödinger and Dirac operators. *J. Math. Anal. Appl.* : to appear, 2007.
- [ACL61] Bouchard B., Touzi N. Discrete-time approximation and Monte Carlo simulation of backward stochastic differential equations. *Stochastic Process. Appl.*, 111 : p. 175-206, 2004.
- [ACL62] Bouchard B., Ekeland I., Touzi N. On the Malliavin approach to Monte Carlo approximation of conditional expectations. *Finance Stoch.*, 8 : p. 45-71, 2004.
- [ACL63] Bouchard B., El Karoui N., Touzi N. Maturity randomisation for stochastic control problems. *Annals of Applied Probability*, 15(4) : p. 2575-2605, 2005.
- [ACL64] Bouchard B., Touzi N., Zeghal A. Dual Formulation of the Utility Maximization Problem : the case of Nonsmooth Utility. *Annals of Applied Probability*, 14 : p. 678-717, 2004.
- [ACL65] Buffoni B., Esteban M. J., Séré E.. Normalized solutions to strongly indefinite semilinear equations. *Adv. Nonlinear Studies*, 6(2) : p. 323-347, 2006.
- [ACL66] Buffoni B., Séré E., Toland J.F. Minimisation methods for quasilinear problems, with an application to periodic water waves. *SIAM J. Math. Anal.*, 36(4) : p. 1080-1094, 2005.
- [ACL67] Busca J., Esteban M.J., Quaas A. Nonlinear eigenvalues and bifurcation problems for Pucci's operators. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 22(2) : p. 187–206, 2005.
- [ACL68] Buttazzo G., Carlier G., Comte M. On the selection of maximal Cheeger sets. Preprint, 2007.
- [ACL69] Campi L., Cetin U. Insider trading in an equilibrium model with default : a passage from reduced-form to structural modelling. *Finance Stoch.*, 11(4) : p. 591-602, 2007.
- [ACL70] Campi L., Schachermayer W. A Super-replication Theorem in the Kabanov Model for Transaction Costs. *Finance Stoch.*, 10(4) : p. 579-596, 2006.
- [ACL71] Campi L., Sbuelz A. Closed-form pricing of Benchmark Equity Default Swaps under the CEV assumption. *Risk Letters*, 1(3) : 2005.
- [ACL72] Campi L. Mean-variance hedging for large financial markets. *Stochastic Analysis and Applications* : to appear, 2007.
- [ACL73] Cancès E., Catto I., Gati Y. Mathematical Analysis of a nonlinear parabolic equation arising in the modelling of non-newtonian flows. *SIAM J. Math. Anal.*, 37(1) : p. 60-82, 2005.

- [ACL74] Cancès E., Catto I., Gati Y., Le Bris C. Well-posedness of a multiscale model for concentrated suspensions. *Multiscale Model. Simul.*, 4(4) : p. 1041–1058, 2005.
- [ACL75] Cappe O., Guillin A., Marin J.-M., Robert C.P. Population Monte-Carlo. *J. Comput. Graph. Statist.*, 13(4) : p. 907-929, 2004.
- [ACL76] Carlier G., Comte M. On a weighted total variation minimization problem. *J. Funct. Anal.*, 250(1) : p. 214-226, 2007.
- [ACL77] Carlier G., Dana R.-A. Are call spread efficient ?*J. Math. Econom.*, 43 : 2007.
- [ACL78] Carlier G., Dana R.-A. Core of convex distortions of a probability on a non atomic. *J. Econom. Theory*, 21 : p. 871-893, 2003.
- [ACL79] Carlier G., Dana R.-A. Existence and monotonicity of solutions to moral hazard. *J. Math. Econom.*, 41 : p. 793-936, 2005.
- [ACL80] Carlier G., Dana R.-A. Pareto efficient Insurance Contracts when the insurer-s cost. *Econom. Theory*, 21 : p. 871-893, 2003.
- [ACL81] Carlier G., Dana R.-A. Rearrangement inequalities in non convex economic models. *J. Math. Econom.*, 41 : p. 483-503, 2005.
- [ACL82] Carlier G., Dana R.-A. Risk-Sharing and Equilibria between two agents with concave Rank-Linear Utilities. *Econom. Theory* : to appear, 2007.
- [ACL83] Carlier G., Nazaret B. Optimal transportation for the determinant. Preprint [hal-00118459 - version 1] (05/12/2006) and Ceremade 2006-56.
- [ACL84] Carlier G., Renou L. Debt contracts with ex-ante and ex-post asymmetric information : an example. *Econom. Theory*, 28(2) : p. 461-473, 2006.
- [ACL85] Carlier G., Tahraoui R. On some optimal control problems governed by a state equation with memory. Preprint Ceremade 2006-59.
- [ACL86] Carlier G., Dana R.-A., Shahidi N. Efficient Insurance Contracts Under epsilon-contaminated. Geneva papers, 28 : p. 59-71, 2003.
- [ACL87] Carlier G., Dana R.-A. Law invariant concave utility functions and optimization problems with monotonicity and comonotonicity constraints. *Statistics and decisions*, 24 : p. 127-152, 2006.
- [ACL88] Carlier G., Ekeland I., Touzi N. Optimal derivatives design for mean variance agents under adverse selection. *Mathematics and Financial Economics*, 1(1) : 2007.
- [ACL89] Carlier G., Ekeland I. Equilibrium structure of a bidimensional asymmetric city. *Nonlinear Anal.*, 8(3) : p. 725-748, 2007.
- [ACL90] Carlier G., Ekeland I. The structure of Cities. *Journal of Global Optimization*, 29(4) : p. 371-376, 2004.
- [ACL91] Carlier G., Jimenez C. On Monge's problem for Bregman like cost functions. *J. Convex Anal.*, 14(3) : p. 647-655, 2007.

- [ACL92] Carlier G., Renou L. A costly verification model with diversity of opinions. *Econom. Theory*, 25(2) : p. 497-504, 2005.
- [ACL93] Carlier G., Santambrogio F. A variational model for urban planning with traffic congestion. *ESAIM Control Optim. Calc. Var.*, 11 : p. 595-613, 2005.
- [ACL94] Carlier G. A necessary and sufficient optimality condition for a class of nonconvex scalar variational problems. *J. Convex Anal.*, 11(2) : p. 401-411, 2004.
- [ACL95] Carlier G. Differentiability properties of rank linear utilities. Preprint, 2006.
- [ACL96] Carlier G. On a theoreme of Alexandrov. *Journal of Nonlinear and Convex Analysis*, 5(1) : p. 49-58, 2004.
- [ACL97] Carlier G. Representation of the core of convex measure games via Kantorovich potentials. *J. Math. Econom.*, 41(7) : p. 898-912, 2005.
- [ACL98] Carminati C., Séré E., Tanaka K. The fixed energy problem for a class of nonconvex singular Hamiltonian systems. *J. Differential Equations*, 230(1) : p. 362-377, 2006.
- [ACL99] Carrillo J.A., Dolbeault J., Gentil I., Jüngel A. Entropy-energy inequalities and improved convergence rates for nonlinear parabolic equations. *Discrete Contin. Dyn. Syst. Ser. B*, 6(5) : p. 1027-1050 (electronic), 2006.
- [ACL100] Cattiaux P., Guillin A. Deviation bounds for additive functionals of Markov processes. Preprint [hal-00020035 - version 1] (03/03/2006).
- [ACL101] Cattiaux P., Guillin A. On quadratic transportation cost inequalities. *J. Math. Pures Appl.* (9), 86(4) : p. 341-361, 2006.
- [ACL102] Cattiaux P., Gentil I., Guillin A. Weak logarithmic Sobolev inequalities and entropic convergence. *Probab. Theory Related Fields* : 139(3-4), p. 563-603, 2007.
- [ACL103] Cattiaux P., Guillin A., Malrieu F. Probabilistic approach for granular media equations in the non uniformly convex case. Preprint [hal-00021591 - version 1] (22/03/2006).
- [ACL104] Catto I., Hainzl C. The self-energy of one electron in non relativistic QED. *J. Funct. Anal.*, 207(1) : p. 68-110, 2004.
- [ACL105] Catto I., Exner P., Hainzl Ch. Enhanced binding revisited for a spinless particle in non-relativistic QED. *J. Math. Phys.*, 45(11) : p. 4174-4185, 2004.
- [ACL106] Cazes P. Quelques méthodes d'analyse factorielle d'une série de tableaux de données. *La revue de Modulad*, 31 : p. 1-31, 2004.
- [ACL107] Celeux G., Forbes F., Robert C.P., Titterington D.M. Deviance information criteria for missing data models. *Bayesian Analysis*, 1(4), p. 651-674, 2006.
- [ACL108] Celeux G., Forbes F., Robert C.P., Titterington D.M. Deviance information criteria for missing data models : Rejoinder to the discussion. *Bayesian Analysis*, 1(4) : p. 701-706, 2006.

- [ACL109] Celeux G., Marin J.-M., Robert C.P. Iterated importance sampling in missing data problems. Computational Statistics and Data Analysis, 50(12) : p. 3386-3404, 2006.
- [ACL110] Celeux G., Marin J.-M., Robert C.P. Sélection bayésienne de variables en régression linéaire. Journal de la Société Française de Statistique, 147(1) : p. 1-26, 2006.
- [ACL111] Chambaz A., Rousseau J. Bounds for Bayesian order identification with application to mixtures. Ann. Statist. : to appear, 2007.
- [ACL112] Chambolle A., Desjardins B., Esteban M.J., Grandmont C. Existence of weak solutions for the unsteady interaction of a viscous fluid with an elastic plate. J. Math. Fluid Mech., 7(3) : p. 368-404, 2005.
- [ACL113] Chambolle A., Desjardins B., Esteban M.J., Grandmont C. Existence of weak solutions for the unsteady interaction of a viscous fluid with an elastic plate. J. Math. Fluid Mech., 7(3) : p. 368–404, 2005.
- [ACL114] Chazal M., Jouini E., Tahraoui R. Production Planning and Inventories Optimization : A Backward Approach in the Convex Storage Cost Case. J. Math. Econom. : to appear, 2007.
- [ACL115] Chazal M., Jouini E., Tahraoui R. Production planning and inventories optimization with a general storage cost function. Nonlinear Anal. 54(8) : p. 1365-1395, 2003.
- [ACL116] Cheridito P., Soner M., Touzi N. Small time path behavior of double stochastic integrals and applications to stochastic control. Annals of Applied Probability, 15(4) : p. 2472-2495, 2005.
- [ACL117] Cheridito P., Soner M., Touzi N. The multi-dimensional super-replication problem under Gamma constraints. Ann. Inst. H. Poincaré Anal. Non Linéaire, 22(5) : p. 633-666, 2005.
- [ACL118] Cohen L.D. Chemins minimaux et modèles déformables en analyse d'images. Traitement du Signal, Volume 20 numéro 3, Numéro spécial : Le traitement du signal à l'aube du XXIème siècle, p. 225–241, Décembre, 2003.
- [ACL119] Consonni G., Marin J.-M. Mean field variational Bayesian inference for latent variable models. Comput. Statist. Data Anal. : to appear, 2007.
- [ACL120] Cordero-Erausquin D., Nazaret B., Villani C. A mass transportation approach to sharp Sobolev and Gagliardo-Nirenberg inequalities. Adv. in Math., 182(10) : p. 307–332, 2004.
- [ACL121] Daher W., Martins-da-Rocha V.F., Vailakis Y. Asset market equilibrium with short-selling and differential information. Econom. Theory, 32(3) : 2007.
- [ACL122] Dana R.-A., Scarcini M. Optimal Risk Sharing with Background Risk. J. Econom. Theory : 2007.
- [ACL123] Dana R.-A. A representation result for concave Schur concave functions. Math. Finance, 14 : p. 613-634, 2005.

- [ACL124] Dana R.-A. Ambiguity, uncertainty aversion and equilibrium Welfare. *Econom. Theory*, 23(3) : p. 569- 587, 2004.
- [ACL125] Dana R.-A. Stochastic Dominance, Risk, Dispersion and Equilibrium Asset Pricing. *J. Math. Econom.*, 40(6) : p. 619-639, 2004.
- [ACL126] Del Pino M., Dolbeault J., Musso M. Multiple bubbling for the exponential nonlinearity in the slightly supercritical case. *Commun. Pure Appl. Anal.*, 5(3) : p. 463-482, 2006.
- [ACL127] Del Pino M., Dolbeault J., Gentil I. Nonlinear diffusions, hypercontractivity and the optimal L^p -Euclidean logarithmic Sobolev inequality. *J. Math. Anal. Appl.*, 293(2) : p. 375-388, 2004.
- [ACL128] Del Pino M., Dolbeault J., Musso M. Duality in sub-supercritical bubbling in the Brezis-Nirenberg problem near the critical exponent. *Partial differential equations and inverse problems*, Amer. Math. Soc., Contemp. Math., Providence, RI (362) : p. 339–350, 2004.
- [ACL129] Del Pino M., Dolbeault J., Musso M. The Brezis-Nirenberg problem near criticality in dimension 3. *J. Math. Pures Appl.* (9), 83(12) : p. 1405–1456, 2004.
- [ACL130] Del Pino M., Dolbeault J., Musso, M. A phase plane analysis of the “multi-bubbling” phenomenon in some slightly supercritical equations. *Monatsh. Math.*, 142(1-2) : p. 57–79, 2004.
- [ACL131] Derrida B., Enaud C., Landim C., Olla S. Fluctuation in the weakly asymmetric simple Fluctuation in the simple exclusion with open boundaries. *J. Stat. Phys.*, 118(5-6) : p. 795-811, 2005.
- [ACL132] Desvillettes L., Mouhot C. Large time behavior of the a priori bounds for the solutions to the spatially homogeneous Boltzmann equations with soft potentials. *Asymptot. Anal.* : à paraître, 2007.
- [ACL133] Desvillettes L., Mouhot C. Stability and uniqueness for the spatially homogeneous Boltzmann equation with long-range interactions. *Arch. Ration. Mech. Anal.* : à paraître, 2007.
- [ACL134] Dibos F., Sanchez O. Displacement following of hidden objects in a video sequence. *Internat. J. Computer Vision*, 57(2) : 2004.
- [ACL135] Dibos F., Frosini P., Pasquignon D. The use of size functions for comparison of shapes through differential invariants. *J. Math. Imaging Vision*, 21(2) : p. 2004.
- [ACL136] Diday E., Vrac M. Mixture Decomposition of Distributions by Copulas In the Symbolic Data Analysis Framework. *Discrete Applied Mathematics*, 147(1) : p. 27-41, 2004.
- [ACL137] Diday E. Spatial classification. *Disc. Appl. Math.* ELSEVIER editor, 2007.
- [ACL138] Djellout H., Guillin A., Wu L. Moderate deviations of empirical periodogram and non-linear functionals of moving average processes. *Ann. Inst. H. Poincaré Probab. Statist.*, 42(4) : p. 393-416, 2006.
- [ACL139] Dolbeault J., Escobedo M. L^1 and L^∞ intermediate asymptotics for scalar conservation laws. *Asymptot. Anal.*, 41(3-4) : p. 189–213, 2005.

- [ACL140] Dolbeault J., Felmer P. Monotonicity up to radially symmetric cores of positive solutions to nonlinear elliptic equations : local moving planes and unique continuation in a non-Lipschitz case. *Nonlinear Anal.*, 58(3-4) : p. 299–317, 2004.
- [ACL141] Dolbeault J., Felmer, P., Monneau, R. Symmetry and nonuniformly elliptic operators. *Differential Integral Equations*, 18(2) : p. 141–154, 2005.
- [ACL142] Dolbeault J., Fernandez J. Localized minimizers of flat rotating gravitational systems. *Ann. Inst. H. Poincaré Anal. Non Linéaire* : à paraître, 2007.
- [ACL143] Dolbeault J., Flores I. Geometry of phase space and solutions of semilinear elliptic equations in a ball. *Trans. Amer. Math. Soc.* : to appear, 2007.
- [ACL144] Dolbeault J., Karch G. Large time behaviour of solutions to nonhomogeneous diffusion equations. *Banach Center Publ.*, 74 : p. 133-147, 2006.
- [ACL145] Dolbeault J., Perthame B. Optimal critical mass in the two-dimensional Keller-Segel model in \mathbb{R}^2 . *C. R. Math. Acad. Sci. Paris*, 339(9) : p. 611–616, 2004.
- [ACL146] Dolbeault J., Sánchez Ó., Soler J. Asymptotic behaviour for the Vlasov-Poisson system in the stellar-dynamics case. *Arch. Ration. Mech. Anal.*, 171(3) : p. 301–327, 2004.
- [ACL147] Dolbeault J., Felmer P., Loss M., Paturel E. Lieb-Thirring type inequalities and Gagliardo-Nirenberg inequalities for systems. *J. Funct. Anal.*, 238(1) : p. 193-220, 2006.
- [ACL148] Dolbeault J., Gentil I., Jüngel A. A logarithmic fourth-order parabolic equation and related logarithmic Sobolev inequalities. *Commun. Math. Sci.*, 4(2) : p. 275-290, 2006.
- [ACL149] Dolbeault J., Duoandikoetxea J., Esteban M.J., Vega L. Hardy-type estimates for Dirac operators. *Ann. Sci. École Norm. Sup.* (4) : à paraître, 2007.
- [ACL150] Dolbeault J., Esteban M.J., Loss M. Relativistic hydrogenic atoms in strong magnetic fields. *Ann. Inst. H. Poincaré Anal. Non Linéaire* : à paraître, 2007.
- [ACL151] Dolbeault J., Esteban M.J., Séré E. General results on the eigenvalues of operators with gaps, arising from both ends of the gaps. Application to Dirac operators. *J. Eur. Math. Soc. (JEMS)*, 8(2) : p. 243-251, 2006.
- [ACL152] Dolbeault J., Esteban M.J., Loss, M., Vega, L. An analytical proof of Hardy-like inequalities related to the Dirac operator. *J. Funct. Anal.*, 216(1) : p. 1–21, 2004.
- [ACL153] Dolbeault J., Felmer P., Mayorga-Zambrano J. Compactness properties for trace-class operators and applications to quantum mechanics. *Monatshefte fuer Mathematik* : to appear, 2007.

- [ACL154] Dolbeault J., Fernández J., Sánchez O. Stability for the gravitational Vlasov-Poisson system in dimension two. Comm. Partial Differential Equations, 31(10-12) : p. 1425-1449, 2006.
- [ACL155] Dolbeault J., Gentil I., Guillin A., Wang F.-Y. Lq-functional inequalities and weighted porous media equations. Potential Analysis : to appear, 2007.
- [ACL156] Dolbeault J., Kinderlehrer, D., Kowalczyk, Michal. Remarks about the flashing ratchet. Partial differential equations and inverse problems, Amer. Math. Soc., Contemp. Math., Providence, RI (362) : p. 167–175, 2004.
- [ACL157] Dolbeault J., Laptev A., Loss M. Lieb-Thirring inequalities with improved constants. J. Eur. Math. Soc. : to appear, 2007.
- [ACL158] Dolbeault J., Markowich P., Ölz D., Schmeiser C. Nonlinear diffusions as limit of kinetic equations with relaxation collision kernels. Arch. Ration. Mech. Anal. : to appear, 2007.
- [ACL159] Doss H., Rainero S. Existence, Unicité, Stabilité et propriétés de Grandes Déviations des solutions d équations Différentielles Stochastiques Rétrogrades à horizon aléatoire. Application à des problèmes de perturbations. Bull. Sci. Math., 131(2) : p. 99-174, 2007.
- [ACL160] Douc R., Guillin A., Moulines E. Bounds on Regeneration Times and Limit Theorems for Subgeometric Markov Chains. Preprint [hal-00016396 - version 1] (03/01/2006).
- [ACL161] Douc R., Guillin A., Marin J.-M., Robert C.P. Convergence of adaptive mixtures of importance sampling schemes. Ann. Statist., 35(1) : p. 420-448, 2006.
- [ACL162] Douc R., Guillin A., Marin J.-M. , Robert C.P. Minimum variance importance sampling via Population Monte Carlo. ESAIM : Probability and Statistics : to appear, 2007.
- [ACL163] Druilhet P., Marin J.-M. Equivariant HPD credible sets and MAP estimators. Bayesian Analysis : à paraître, 2007.
- [ACL164] Escobedo M., Mischler S. Dust and self-similarity for the Smoluchowski coagulation equation. Ann. Inst. H. Poincaré Anal. Non Linéaire, 23(3) : p. 331-362, 2006.
- [ACL165] Escobedo M., Mischler S. Qualitative properties of some Boltzmann like equations which do not fulfill a detailed balance condition. In Recent trends in partial differential equations, volume 409 of Contemp. Math. : p. 95-123. Amer. Math. Soc., Providence, RI, 2006.
- [ACL166] Esteban M.J., Felmer P.-L., Quaas A. Large critical exponents for some second order uniformly elliptic operators. Comm. Partial Differential Equations, 32(4) : p. 543-556., 2007.
- [ACL167] Esteban M.J. Existence of 3D skyrmions. Erratum to : “A direct variational approach to Skyrme’s model for meson fields” [Comm. Math. Phys. 105 (1986), no. 4, 571–591] and “A new setting for Skyrme’s problem” Comm. Math. Phys., 251(1) : p. 209–210, 2004.

- [ACL168] Feng X-J., Le Bris C., Rabitz H., Turinici G. A Closed-Loop Identification Protocol (CLIP) for Nonlinear Dynamical Systems. *Journal of Physical Chemistry A*, 110 : p. 7755-7762, 2006.
- [ACL169] Fernández M. A., Gerbeau J.-F., Grandmont C. A projection semi-implicit scheme for the coupling of an elastic structure with an incompressible fluid. *Internat. J. Numer. Methods Engrg.*, 69(4) : p. 794–821, 2007.
- [ACL170] Fernández M.A., Gerbeau J.-F., Grandmont C. A projection algorithm for fluid-structure interaction problems with strong added-mass effect. *C. R. Math. Acad. Sci. Paris*, 342(4) : p. 279–284, 2006.
- [ACL171] Filbet F., Mouhot C., Pareschi L. Solving the Boltzmann equation in $N \log_2 N$. *SIAM J. Sci. Comput.*, 28(3) : p. 1029-1053 (electronic), 2006.
- [ACL172] Forges F., Barbar R. Collusion dans les enchères : quelques apports des jeux coopératifs. *Revue Economique* : to appear, 2007.
- [ACL173] Forges F., Koessler F. Communication equilibria with partially verifiable types. *J. Math. Econom.*, 41 : p. 793-811, 2005.
- [ACL174] Forges F., Koessler F. Long persuasion games. *J. Econom. Theory* : to appear, 2007.
- [ACL175] Forges F. Correlated equilibrium in games with incomplete information revisited. *Theory and decision*, 61 : p. 329-344, 2006.
- [ACL176] Forges F. Feasible mechanisms in economies with type-dependent endowments. *Soc. Choice Welf.*, 26 : p. 403-419, 2006.
- [ACL177] Forges F. The ex ante incentive compatible core in exchange economies with and without indivisibilities. *Economie Publique*, 17 : p. 141-159, 2005.
- [ACL178] Forges F. The ex ante incentive compatible core of the assignment game. *Math. Social Sci.*, 47 : p. 135-151, 2004.
- [ACL179] Fraser D., Rousseau J. Studentization and the determination of accurate p-values. *Biometrika* : to appear, 2006.
- [ACL180] Fritz J., Nagy K., Olla S. Equilibrium fluctuations for a system of harmonic oscillators with conservative noise. *J. Stat. Phys.*, 122(3) : p. 399-415, 2006.
- [ACL181] Gallagher I., Gallay T., Lions P.-L. On the uniqueness of the solution of the two-dimensional Navier-Stokes equation with a Dirac mass as initial vorticity. *Math. Nachr.*, 278(14) : p. 1665–1672, 2005.
- [ACL182] Gayraud G., Rousseau J. Consistency results on nonparametric Bayesian estimation of level sets using spatial priors. *Test*, 16 : p. 90-108, 2005.
- [ACL183] Gayraud G., Rousseau J. Rates of convergence for a Bayesian level set estimation. *Scand. J. Statist.*, 14(1) : p. 75-94, 2005.
- [ACL184] Gentil I., Guillin A., Miclo L. Modified logarithmic Sobolev inequalities and transportation inequalities. *Probab. Theory Related Fields*, 133(3) : p. 409-436, 2005.

- [ACL185] Gentil I., Guillin A., Miclo L. Modified logarithmic Sobolev inequalities in null curvature. *Rev. Mat. Iberoamericana*, 23, no 1, 237-260, 2007.
- [ACL186] Gettler-Summa M., Vautrain F., Schwartz L., Barrault M., Steyaert J.M., Hafner N. Multiple time series : new approches and new tools in data mining ; applications to cancer epidemiology. *Revue Modulad Juin 2006* : p.37-46, 2006.
- [ACL187] Gneiting T., Balabdaoui F., Raftery A. Probabilistic forecasts, calibration and sharpness. *J. R. Stat. Soc. Ser. B Stat. Methodol.*, 66(2) : p. 1-26, 2006.
- [ACL188] Goldfarb B., Pardoux C.M. Exploring series of multivariate censored temporal data through fuzzy coding and correspondence analysis. *Stat. Med.*, 25(10) : p. 1741-1750, 2006.
- [ACL189] Goldfarb B., Pardoux C.M. Comment faire les diagrammes Q-Q et P-P. *La revue de Modulad*, vol. 33, 2005.
- [ACL190] Gossner O., Tomala T. Empirical distributions of beliefs under imperfect observation. *Math. Oper. Res.*, 31(1) : p. 13-30, 2006.
- [ACL191] Gossner O., Tomala T. Secret Correlation in Repeated Games with Imperfect Monitoring. *Math. Op. Research*, 32(2) : p. 413-425, 2007.
- [ACL192] Goupil-Testu F., Gettler-Summa M., Goupil J., Sasco A., Schwartz L., Vautrain F. Application de l'Analyse de données, aux causes de décès de 1950 à 1997. Position de la mortalité par tumeur.
- [ACL193] Grandmont C., Maday Y., Metier P. Modeling and analysis of an elastic problem with large displacements and small strains. *J. Elasticity*, 87(1) : p. 29-72, 2007.
- [ACL194] Grandmont C., Maury B., Meunier N. A viscoelastic model with non-local damping application to the human lungs. *M2AN Math. Model. Numer. Anal.*, 40(1) : p. 201-224, 2006.
- [ACL195] Gravejat P. Asymptotics of the solitary waves for the generalised. *Disc. Cont. Dynam. Syst.* : to appear, 2007.
- [ACL196] Gravejat P. First order asymptotics for the travelling waves in the Gross-Pitaevskii equation. *Adv. Differential Equations*, 11(3) : p. 259-280, 2006.
- [ACL197] Gravier S., Maffray F., Renault J., Trotignon N. Ramsey-type results on singletons, co-singletons and monotone sequences in large collections of sets. *European Journal of Combinatorics*, 25 : p. 719-734, 2004.
- [ACL198] Groenen P.J.F., Winsberg S., Rodriguez O., Diday E. I-Scal Multidimensional scaling of interval dissimilarities. *Computational Statistics and Data Analysis*, 51, 36, 2006.
- [ACL199] Guihenneuc C., Rousseau J. Laplace expansions in MCMC algorithms. *J. Comput. Graph. Statist.*, 32(4) : p. 639-660, 2005.

- [ACL200] Guillin A., Liptser R. Examples of moderate deviation principle for diffusion processes. *Discrete Contin. Dyn. Syst. B*, 6(4) : p. 803-828 (electronic), 2006.
- [ACL201] Guillin A., Marin J.-M., Robert C.P. Estimation bayésienne approximative par échantillonnage préférentiel. *Revue de Statistique Appliquée*, LIII(1) : p. 79-95, 2005.
- [ACL202] Hainzl C., Lewin M., Séré E. Existence of a stable vacuum in the Bogoliubov-Dirac-Fock approximation. *Comm. Math. Phys.*, 257(3) : p. 515-562, 2005.
- [ACL203] Hainzl C., Lewin M., Séré E. Self-consistent solution for the polarized vacuum in a no-photon QED model. *J. Phys. A*, 38(20) : p. 4483-4499, 2005.
- [ACL204] Hauray M., Le Bris C., Lions P.-L. Deux remarques sur les flots généralisés d'équations différentielles ordinaires. *C. R. Math. Acad. Sci. Paris*, 344 : p. 759-764, 2007.
- [ACL205] Hobert J.P., Jones G.L., Robert C.P. Using a Markov Chain to Construct a Tractable Approximation of an Intractable Probability Distribution. *Scandinavian Journal of Statistics*, 33(1) : p. 37-51, 2006.
- [ACL206] Jouini E., Napp C. Heterogeneous beliefs and asset pricing in discrete time : an analysis of pessimism and doubt. *Journal of Economic Dynamics and Control*, 30, 1233-1260, 2006.
- [ACL207] Jouini E., Napp C. A class of models satisfying a dynamic version of the CAPM. *Economics Letters*, 79 : p. 299-304, 2003.
- [ACL208] Jouini E., Napp C. Aggregation of heterogeneous beliefs. *J. Math. Econom.*, 42(6) : p. 752-770, 2006.
- [ACL209] Jouini E., Napp C. Arbitrage with fixed costs and interest rate models. *Journal of Financial and Quantitative Analysis*, 41(4) : p. 889-913, 2006.
- [ACL210] Jouini E., Napp C. Comonotonic processes. *Insurance : Mathematics and Economics*, 32 : p. 255-265, 2003.
- [ACL211] Jouini E., Napp C. Conditional comonotonicity. *Decisions in Economics and Finance*, 27 : p. 153-166, 2004.
- [ACL212] Jouini E., Napp C. Consensus consumer and intertemporal asset pricing with heterogeneous beliefs. *Rev. Econom. Stud.* : to appear, 2007.
- [ACL213] Jouini E., Napp C. Convergence of utility functions and convergence of optimal portfolios. *Finance Stoch.*, 8 : p. 133-144, 2004.
- [ACL214] Jouini E., Napp C. Hétérogénéité des croyances, prix du risque et volatilité des marchés. *Revue d'Économie Financière*, 74 : p. 125-138, 2004.
- [ACL215] Jouini E., Meddeb M., Touzi N. Vector-valued coherent risk-measures. *Finance Stoch.*, 8 : p. 531-552, 2004.

- [ACL216] Jouini E., Napp C., Schachermayer W. Arbitrage and state price deflators in a general intertemporal framework. *J. Math. Econom.*, 41 : p. 722-734, 2006.
- [ACL217] Jouini E., Schachermayer W., Touzi N. Law invariant risk measures have the Fatou property. *Advances in mathematical economics* 9 : p. 49-71, 2006.
- [ACL218] Jouini E., Schachermayer W., Touzi N. Optimal risk sharing for law invariant monetary utility functions. *Math. Finance* : to appear, 2007.
- [ACL219] Jouini E. Convergence of the equilibrium prices in a family of financial models. *Finance Stoch.*, 7 : p. 491-507, 2003.
- [ACL220] Katsoulakis M. A., Trashorras J. Information loss in coarse-graining of stochastic particle dynamics. *J. Stat. Phys.*, 122(1) : p. 115-135, 2006.
- [ACL221] Kendall W., Marin J.-M., Robert, C.P. Confidence bands for Brownian motion and applications to Monte Carlo simulation. *Stat. Comput.*, 17 : p. 1-10, 2007.
- [ACL222] Kissita G., Cazes P., Hanafi M., Lafosse R. Deux méthodes d'analyse factorielle du lien entre deux tableaux de variables partitionnées. *Revue de Statistique Appliquée* LI(3) : p. 73-92, 2004.
- [ACL223] Komorowski T., Olla S. Einstein Relation for Random Walks in random environment. *Stochastic Process. Appl.*, 115 : p. 1279-1301, 2005.
- [ACL224] Komorowski T., Olla S. On Mobility and Einstein Relation for Tracers in Time Mixing random Environments. *J. Stat. Phys.*, 118(3-4) : p. 407-435, 2005.
- [ACL225] Landim C., Olla S., Varadhan S.R.S. On viscosity and fluctuation-dissipation in exclusion processes. *J. Statist. Phys.*, 115(1-2) : p. 323–363, 2004.
- [ACL226] Landim C., Olla S., Varadhan S.R.S. Diffusive Behaviour of the Equilibrium Fluctuations in the Asymmetric Exclusion Processes. *Advanced Studies in Pure Mathematics*, 39 : p. 307-324, 2004.
- [ACL227] Landim C., Olla S., Varadhan S.R.S. On the viscosity and fluctuation-dissipation in exclusion processes. *J. Stat. Phys.*, 115(1-2) : p. 323-363, 2004.
- [ACL228] Le Bris C., Mirrahimi M., Rabitz, H., Turinici G. Hamiltonian identification for quantum systems : well posedness and numerical approaches. *ESAIM Control Optim. Calc. Var.* 13(2) : p. 378–395 (electronic), 2007.
- [ACL229] Li H., Yezzi A., Cohen L.D. Fast 3D Brain Segmentation Using Dual-front Active Contours With Optional User-Interaction. *International Journal of Biomedical Imaging*, volume : 2006, p. 1-20.
- [ACL230] Lieberman O., Rousseau J., Zucker D. Valid asymptotic expansions for the maximum likelihood estimator of the parameter of a stationary, Gaussian, strongly dependent process. *Ann. Statist.*, 31 : p. 586-612, 2003.

- [ACL231] Lions P.-L., Musiela M. Correlations and bounds for stochastic volatility models. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 24(1) : p. 1-16, 2007.
- [ACL232] Lions P.-L., Souganidis P.E. Correctors for the homogenization of Hamilton-Jacobi equations in the stationary. *Comm. Pure Appl. Math.*, 56(10) : p. 1501-1524, 2003.
- [ACL233] Lions P.-L., Souganidis P.E. Homogenization of degenerate second order PDE in periodic and almost periodic environments and applications. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 22 : p. 667-677, 2005.
- [ACL234] Lions P.-L., Lasry J.-M. Instantaneous self-fulfilling of long-term prophecies on the probabilistic distribution. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 24(3) : p. 361-368, 2007.
- [ACL235] Lions P.-L., Lasry J.-M. Jeux à champ moyen. I - Le cas stationnaire. *C. R. Math. Acad. Sci. Paris*, 343(9) : p. 619-625, 2006.
- [ACL236] Lions P.-L., Lasry J.-M. Jeux à champ moyen. II - Horizon fini et contrôle optimal. *C. R. Math. Acad. Sci. Paris*, 343(10) : p. 679-684, 2006.
- [ACL237] Lions P.-L., Lasry J.-M. Large investor trading impacts on volatility. *Ann. Inst. H. Poincaré Anal. Non Linéaire*, 24(2) : p. 311-323, 2007.
- [ACL238] Lions P.-L., Lasry J.-M. Mean Field Games. *Japanese Journal of Mathematics*, 2 : p. 229-260, 2007.
- [ACL239] Lions P.-L., Lasry J.-M. Towards a self-consistent theory of volatility. *J. Math. Pures Appl.*, 86(9) : p. 541-551, 2006.
- [ACL240] Lions P.-L., Le Bris C. From Atoms to crystals : a mathematical journey. *Bull. Amer. Math. Soc.*, 42 : p. 291-363, 2005.
- [ACL241] Lions P.-L., Masmoudi N. Global existence of weak solutions to some micro-macro models. *C. R. Math. Acad. Sci. Paris* : to appear, 2007.
- [ACL242] Lions P.-L., Musiela M. Convexity of solutions of parabolic equations. *C. R. Math. Acad. Sci. Paris*, 342(12) : p. 915-921, 2006.
- [ACL243] Lions P.-L., Souganidis P.E. Homogenization of “viscous” Hamilton-Jacobi equations in stationary ergodic. *Comm. Partial Differential Equations*, 30(1-3) : p. 335-375, 2005.
- [ACL244] Lions P.-L., Blanc X., Le Bris C. Une variante de la théorie de l’homogénéisation stochastique des opérateurs elliptiques. *C. R. Math. Acad. Sci. Paris*, 343(11-12) : p. 717-724, 2006.
- [ACL245] Lions P.-L., Le Bris C. Renormalized solutions of some transport equations with partially $W^{sp1,1}$ velocities and applications. *Ann. Mat. Pura Appl.* (4), 183(1) : p. 97-130, 2004.
- [ACL246] Lions P.-L., Masmoudi N. Homogenization of the Euler system in a 2D porous medium. *J. Math. Pures Appl.*, 84 (1) : p. 1-20, 2005.
- [ACL247] Lions P.-L., Musiela M. Some properties of diffusion processes with singular coefficients. *Comm. Appl. Anal.*, 10(1) : p. 109-125, 2006.

- [ACL248] Lions P.-L. Du Courant & Hilbert aux simulations numériques. *Gaz. Math.*, 108 : p. 5-16, 2006.
- [ACL249] Lions P.-L. Lattices and mean energy. *Bol. UMI* : to appear, 2007.
- [ACL250] Maday Y., Salomon J., Turinici G. Monotonic time-discretized schemes in quantum control. *Numer. Math.*, 103(2) : p. 323–338, 2006.
- [ACL251] Maday Y., Salomon J., Turinici G. Parareal in time control for quantum systems. *Siam J. Numer. Anal.* : to appear, 2006.
- [ACL252] Mallat S., Peyré G. A Review of Bandlet Methods for Geometrical Image Representation. *Numerical Algorithms* : to appear 2007.
- [ACL253] Marin J.-M., Mengersen K., Robert C.P. Bayesian modelling and inference on mixtures of distributions. *Handbook of Statistics*, 25(16) : p. 459-507, 2005.
- [ACL254] Marin J.-M. Estimation of variance components for a linear Toeplitz model. *Communications in Statistics : Theory and Methods*, 36(12) : 2007.
- [ACL255] Martins-da-Rocha V.F., Riedel F. Stochastic equilibria for economies under uncertainty with intertemporal substitution. *Annals of Finance*, 2(1), 2006.
- [ACL256] Martins-da-Rocha V.F., Topuzu M. Cournot-Nash equilibria in continuum games with non-ordered preferences. *J. Econom. Theory* : to appear, 2007.
- [ACL257] Martins-da-Rocha V.F. Equilibria in large economies with a separable Banach commodity space and non-ordered preferences. *J. Math. Econom.*, 39(8) : 2003.
- [ACL258] Martins-da-Rocha V.F. Equilibria in large economies with differentiated commodities and non-ordered preferences. *Econom. Theory*, 23(3) : 2004.
- [ACL259] Mischler S., Mouhot C. Cooling process for inelastic Boltzmann equations for hard spheres. II. Self-similar solutions and tail behavior. *J. Stat. Phys.*, 124(2-4) : p. 703-746, 2006.
- [ACL260] Mischler S., Mouhot C., Rodriguez Ricard M. Cooling process for inelastic Boltzmann equations for hard spheres. I. The Cauchy problem. *J. Stat. Phys.*, 124(2-4) : p. 655-702, 2006.
- [ACL261] Mouhot C., Neumann L. Quantitative perturbative study of convergence to equilibrium for collisional kinetic models in the torus. *Nonlinearity*, 19(4) : p. 969-998, 2006.
- [ACL262] Mouhot C., Pareschi L. Fast algorithms for computing the Boltzmann collision operator. *Math. Comp.*, 75(256) : p. 1833-1852, 2006.
- [ACL263] Mouhot C., Strain R. Spectral gap and coercivity estimates for linearized Boltzmann collision operators without angular cutoff. *J. Math. Pures Appl.*, 87(5) : p. 515-535, 2007.
- [ACL264] Mouhot C. Explicit coercivity estimates for the linearized Boltzmann and Landau operators. *Comm. Partial Differential Equations*, 31(7-9) : p. 1321-1348, 2006.

- [ACL265] Mouhot C. Quantitative linearized study of the Boltzmann collision operator and applications. Comm. Math. Sci., suppl. 1 : p. 73-86, 2007.
- [ACL266] Mouhot C. Quantitative lower bound for the full Boltzmann equation, Part I : Periodic boundary conditions. Comm. Partial Differential Equations, 30(4-6) : p. 881-917, 2005.
- [ACL267] Mouhot C. Rate of convergence to equilibrium for the spatially homogeneous Boltzmann equation with hard potentials. Communications in Mathematical Physics 261(3) : p. 629-672, 2006.
- [ACL268] Nazaret B. Best constant in Sobolev trace inequalities on the half-space. Nonlinear Anal., 65(10) : p. 1977-1985, 2006.
- [ACL269] Ng T.-W., Turinici G., Ching W.K., Chung S.K., Danchin A. A parasite vector-host epidemic model for TSE propagation. Medical Science Monitor, 13(3) : BR59-66, 2007.
- [ACL270] Olla S., Siri P. Homogenization of a bond diffusion in a locally ergodic random environment. Stochastic Process. Appl., 109 : p. 317-326, 2004.
- [ACL271] Peyré G., Cohen L.D. Geodesic Remeshing Using Front Propagation. Internat. J. Computer Vision, 69(1) : p. 145–156, 2006.
- [ACL272] Peyré G., Cohen L.D. Heuristically Driven Front Propagation for Fast Geodesic Extraction. International Journal for Computational Vision and Biomechanics : to appear, 2007.
- [ACL273] Philippe A., Rousseau J. Non-informative priors for Gaussian long-memory processes, Bernoulli, 8 : p. 451-473, 2003.
- [ACL274] Raftery A., Gneiting T., Balabdaoui F., Polakowski M. Using Bayesian Model Averaging to Calibrate Forecast Ensembles. Monthly Weather Review, 133(5) : p. 1155-1174, 2006.
- [ACL275] Renault, J. View-obstruction : A shorter proof for 6 lonely runners. Discrete Mathematics, 287 : pp. 93-101, 2004.
- [ACL276] Renault J., Tomala T. Communication equilibria in supergames. Games Econom. Behav., 49 : p. 313-344, 2004.
- [ACL277] Renault J., Tomala T. Learning the state of nature in repeated games with incomplete information and signals. Games Econom. Behav., 47 : p. 124-156, 2004.
- [ACL278] Renault J., Tomala T. Reliability and security of multicast communication in general networks. Journal of Cryptology : to appear, 2005.
- [ACL279] Renault J., Scarlatti S., Scarsini M. A folk theorem for minority games. Games Econom. Behav., 53 : p. 208-230, 2005.
- [ACL280] Renault J., Scarsini M., Tomala T. A minority game with bounded recall. Math. Op. Research : to appear, 2007.
- [ACL281] Renault J. The value of Markov chain games with lack of information on one side. Math. Oper. Res., 31(3) : p. 490-512, 2006.

- [ACL282] Robert C.P. A review of Gaussian Markov Random Fields (Theory and Applications) by Haaavard Rue and Leonhard Held. Statistics in Medicine, 25(18) : p. 3025-3026, 2006.
- [ACL283] Robert C.P. Discussion of “Exact and computationally efficient likelihood-based estimation for discretely observed diffusion processes” by Beskos, Papaspiliopoulos, Roberts, and Fearnhead. J. Royal Statistical Society, Series B, 68(3) p. 378-379, 2006.
- [ACL284] Robert C.P. Discussion of “On the frequentist and Bayesian approaches to hypothesis testing” by Giron and Moreno. SORT, 30(1) : p. 38-45, 2006.
- [ACL285] Salomon J., Turinici G. On the relationship between the local tracking procedures and monotonic schemes in quantum optimal control. J. Chem Phys, 124 : p. 074102, 2006.
- [ACL286] Salomon J., Dion C.M., Turinici G. Optimal molecular alignment and orientation through rotational ladder climbing. J. Chem Phys, 123(14) : p. 144310, 2005.
- [ACL287] Salomon J., Weiss A., Wohlmuth B. Energy conserving algorithms for a co-rotational formulation. SIAM J. Numer. Anal. : to appear 2007.
- [ACL288] Salomon J. Convergence of the time-discretized monotonic schemes. M2AN Math. Model. Numer. Anal., 41(1) : p. 77-93, 2007.
- [ACL289] Soner H.M., Touzi N. Level set characterization of stochastic target problems. Comm. Partial Differential Equations, 27, p. 2031-2053, 2003.
- [ACL290] Soner H.M., Touzi N. Stochastic representation of mean curvature type geometric flows. Annals of Probability, 31(3) : p. 1145-1165, 2003.
- [ACL291] Sparber C., Carrillo J.A., Dolbeault J., Markowich P.A. On the long-time behavior of the quantum Fokker-Planck equation. Monatsh. Math., 141(3) : p. 237–257, 2004.
- [ACL292] Tahraoui R. Comparison principle for second order elliptic operators and applications. Ann. Inst. H. Poincaré Anal. Non Linéaire, 23(2) : p. 159-183, 2006.
- [ACL293] Tahraoui R. Strong maximum principle for general quasilinear problems in non-divergence form. Nonlinear Anal., 65(10) : p. 1955-1976, 2006.
- [ACL294] Trashorras J. Laplace-s method and high temperature generalized Hopfield models. Markov Process. Related Fields, 12(3) : p. 583–626, 2006.
- [ACL295] Trashorras J. Large deviations for symmetrised empirical measures. J. Theoret. Probab., A paraître, 2006.
- [ACL296] Turinici G., Rabitz H. Controlling quantum dynamics regardless of laser beam spatial profile and molecular orientation. Phys. Rev. A, 75 : p. 043409, 2007.

- [ACL297] Viossat Y. The replicator dynamics does not lead to correlated equilibria. Games and Economic Behavior, 59 : p. 397-407, 2007.
- [ACL298] Yukiyoshi O., Yoshiaki T., Turinici G., Rabitz H. Monotonically convergent algorithms for solving quantum optimal control problems described by an integro-differential equation of motion. Phys. Rev. A, 75 : p. 033407, 2007.

Articles publiés par les doctorants

- [DOC1] Amzal B., Bois F., Parent E., Robert C.P. Bayesian optimal design via interacting MCMC. J. Amer. Statist. Assoc., 101(474) : p. 773-785, 2006.
- [DOC2] Arbelaez P., Cohen L.D. Energy Partitions and Image Segmentation. J. Math. Imaging Vision, 20(1-2) : p. 43–57, 2004.
- [DOC3] Arbelaez P., Cohen L.D. A Metric Approach to Vector-Valued Image Segmentation. Internat. J. Computer Vision, 69(1) : p. 119–126, 2006.
- [DOC4] Arbelaez P., Cohen L.D. Segmentation d'Images Couleur par partitions de Voronoi. Traitement du Signal, Volume 21 numéro 5, Numéro spécial : L'image numérique couleur, p. 407-421, Février, 2005.
- [DOC5] Ardon R., Cohen L.D. Fast Constrained Surface Extraction by Minimal Paths. Internat. J. Computer Vision, 69(1) : p. 127–136, 2006.
- [DOC6] Ardon R., Cohen L.D., Yezzi A. Fast surface segmentation guided by user input using implicit extension of minimal paths. J. Math. Imaging Vision, 25(3) : p. 289–305, 2006.
- [DOC7] Ardon R., Cohen L.D., Yezzi A. A new implicit method for surface segmentation by minimal paths in 3D images. Applied Mathematics and Optimization, 55(2) : p. 127-144, March, 2007.
- [DOC8] Arnold A., Bartier J.-P., Dolbeault J. Interpolation between logarithmic Sobolev and Poincaré inequalities. Communications in mathematical sciences : to appear, 2007.
- [DOC9] Astic F., Touzi N. No arbitrage conditions and liquidity. J. Math. Econom., 43(6) : p. 692-708, 2007.
- [DOC10] Bartier J.-P., Dolbeault J. Convex Sobolev inequalities and spectral gap. C. R. Math. Acad. Sci. Paris, 342(5) : p. 307-312, 2006.
- [DOC11] Bartier J.-P., Dolbeault J., Illner R., Kowalczyk M. A qualitative study of linear drift-diffusion equations with time-dependent or degenerate coefficients. Math. Models Methods Appl. Sci., 17(3) : p. 327-362, 2007.
- [DOC12] Bartier J.-P. Global behavior of solutions of a reaction-diffusion equation with gradient absorption in unbounded domains. Asymptot. Anal., 46(3-4) : p. 325-347, 2006.

- [DOC13] Basile G., Bernardin C., Olla S. Momentum conserving model with anomalous thermal conductivity in low dimensional. Phys. Rev. Lett., 96 : p. 204303, 2006.
- [DOC14] Basile G., Delfini L., Lepri S., Livi R., Olla S., Politi A. Anomalous Transport and Relaxation in Classical One-Dimensional Models. European Physics Journal, Special Topics : to appear, 2007.
- [DOC15] Benabou G.. Homogenization of Ornstein-Uhlenbeck process in random environment. Comm. Math. Phys., 266(3) : p. 699-714, 2006.
- [DOC16] Benabou G.. Superdiffusive behaviour of a passive Ornstein-Uhlenbeck tracer in a turbulent shear flow. J. Stat. Phys., 121(3-4) : p. 319–341, 2005.
- [DOC17] Benmansour S., Jouini E., Napp C. Is There a Pessimistic Bias in Individual Beliefs? Evidence from a Simple Survey. Theory and Decision, 61 : p. 345-362, 2006.
- [DOC18] Bentahar I., Bouchard B. Explicit characterization of the superreplication strategy in financial markets with partial transaction costs, with Bouchard B. , Stochastic processes and their applications, 117(5), 655-672, 2007.
- [DOC19] Bentahar I., Bouchard B. Barrier option hedging under constraints : a viscosity approach. SIAM J. Control Optim. 45, no. 5, 1846–1874, 2006.
- [DOC20] Bernardin C., Olla S. Fourier law and fluctuations for a microscopic model of heat conduction. J. Stat. Phys., 118(3-4) : p. 271-289, 2005.
- [DOC21] Bernardin C.. Fluctuations in Kawasaki dynamics. J. Stat. Phys., 119(3-4) : p. 827-852, 2005.
- [DOC22] Bernardin C.. Fluctuations in the occupation time of a site in the asymmetric simple exclusion process. Ann. Probab., 32(1-3), p. 855-879, 2004.
- [DOC23] Bernardin C.. Hydrodynamics for a system of harmonic oscillators perturbed by a conservative noise. Stochastic Process. Appl., 117(4) : p. 487-513. , 2007.
- [DOC24] Billio M., Casarin R. Stochastic Optimization for Allocation Problems with Shortfall Risk Constraint. Applied Stochastic Models in Business, Industry, 23 : p. 247-271, 2007.
- [DOC25] Blanchet A., Bonforte M., Dolbeault J., Grillo G., Vazquez J.-L. Hardy-Poincaré inequalities and applications to nonlinear diffusions. C. R. Math. Acad. Sci. Paris, 344(7) : p. 431–436, 2007.
- [DOC26] Blanchet A., Dolbeault J., Monneau R. On the continuity of the time derivative of the solution to the parabolic obstacle problem with variable coefficients. J. Math. Pures Appl. (9), 85(3) : p. 371-414, 2006.
- [DOC27] Blanchet A., Dolbeault J., Perthame B. Two-dimensional Keller-Segel model : Optimal critical mass and qualitative properties of the

- solutions. Electron. J. Differential Equations, 44 : 32 pp. (electronic), 2006.
- [DOC28] Blanchet A. On the regularity of the free boundary in the parabolic obstacle problem. Application to American options. Nonlinear Anal., 65(7) : p. 1362–1378, 2006.
- [DOC29] Blanchet A. On the singular set of the parabolic obstacle problem. J. Differential Equations, 231(2) : p. 656–672, 2006.
- [DOC30] Bonneau S., Dahan M., Cohen L.D. Single Quantum Dot tracking based on perceptual grouping using minimal paths in a spatio-temporal volume. IEEE Trans. Image Process, 14(9) : p. 1384–1395, 2005.
- [DOC31] Bouchard B., Elie R. Discrete time approximation of decoupled Forward-Backward SDE with jumps, Stochastic Processes and Applications, 2007.
- [DOC32] Bouchard B., Touzi N., Zeghal A. Dual Formulation of the Utility Maximization Problem : the case of Nonsmooth Utility. Annals of Applied Probability, 14 : p. 678–717, 2004.
- [DOC33] Boussaid N. Stable directions for small nonlinear Dirac standing waves. Comm. Math. Phys., 268(3) : p. 757–817, 2006.
- [DOC34] Bry, X. Estimation empirique d'un modèle à variables latentes comportant des interactions. Revue de Statistique Appliquée, 52(3) : p.5–35, 2004.
- [DOC35] Busca J., Esteban M.J., Quaas A. Nonlinear eigenvalues and bifurcation problems for Pucci's operators. Ann. Inst. H. Poincaré Anal. Non Linéaire, 22(2) : p. 187–206, 2005.
- [DOC36] Cancès E., Galicher H., Lewin M. Computing Electronic Structures : a new multiconfiguration approach for excited states. J. Comput. Phys., 212 : p. 73–98, 2006.
- [DOC37] Casarini R., Lazzarin M., Pelizzon L., Sartore D. Relative Benchmark Rating and Persistence Analysis : Evidence from Italian Equity Funds. The European Journal of Finance, 11(4) : p. 297–308, 2005.
- [DOC38] Casarini R. Simulation Methods for Nonlinear and Non-Gaussian Models in Finance, Premio SIE. Rivista Italiana degli Economisti, 2 : p. 341–345, 2005.
- [DOC39] Chazal M., Jouini E., Tahraoui R. Production Planning and Inventories Optimization : A Backward Approach in the Convex Storage Cost Case. J. Math. Econom. : to appear, 2007.
- [DOC40] Chazal M., Jouini E., Tahraoui R. Production planning and inventories optimization with a general storage cost function. Nonlinear Anal. 54(8) : p. 1365–1395, 2003.
- [DOC41] Clairambault, J., Michel, P., Perthame, B., Circadian rhythm and tumour growth. C. R. Math. Acad. Sci. Paris, 342 (2006), no. 1, 17–22.

- [DOC42] Dalibard A.-L. Homogenization of linear transport equations in a stationary ergodic setting. Comm. Partial Differential Equations : to appear, 2007.
- [DOC43] Dalibard A.-L. Homogenization of nonlinear scalar conservation laws. Arch. Ration. Mech. Anal. : to appear, 2007.
- [DOC44] Dalibard A.-L. Initial layer for the homogenization of a scalar conservation law with vanishing viscosity. Arch. Ration. Mech. Anal., 185(3) : p. 515-543, 2007.
- [DOC45] Dalibard A.-L. Homogenization of a quasilinear parabolic equation with vanishing viscosity. J. Math. Pures Appl., (9), 86(2) : p. 133-154, 2006.
- [DOC46] Dalibard A.-L. Kinetic formulation for heterogeneous scalar conservation laws. Ann. Inst. H. Poincaré Anal. Non Linéaire, 23(4) : p. 475-498, 2006.
- [DOC47] Dalibard A.-L. Kinetic formulation for heterogenous parabolic conservation laws. SIAM J. Math. Anal. : to appear, 2007.
- [DOC48] Derquenne C., Hallais C. Une méthode alternative à l'approche PLS. Comparaison et application aux modèles conceptuels en marketing. Revue de Statistique Appliquée, Vol.52, No. 3, pp. 37-72, 2004.
- [DOC49] Doss H., Rainero S. Existence, Unicité, Stabilité et propriétés de Grandes Déviations des solutions d'équations Différentielles Stochastiques Rétrogrades à horizon aléatoire. Application à des problèmes de perturbations. Bull. Sci. Math., 131(2) : p. 99-174, 2007.
- [DOC50] Elie R., Fermanian J.D., Touzi N. Optimal Greek Weights by kernel estimation, Annals of Applied Probability, Vol. 17, No. 4, 2007.
- [DOC51] Esteban M.J., Felmer P.-L., Quaas A. Large critical exponents for some second order uniformly elliptic operators. Comm. Partial Differential Equations, 32(4) : p. 543-556., 2007.
- [DOC52] Felmer, P. L., Quaas A. Positive radial solutions to a “semilinear” equation involving the Pucci’s operator. J. Differential Equations 199 (2004), no. 2, 376–393.
- [DOC53] Felmer, P. L., Quaas A. On critical exponents for the Pucci’s extremal operators. Ann. Inst. H. Poincaré Anal. Non Linéaire 20 (2003), no. 5, 843–865.
- [DOC54] Fritz J., Nagy K., Olla S. Equilibrium fluctuations for a system of harmonic oscillators with conservative noise. J. Stat. Phys., 122(3) : p. 399-415, 2006.
- [DOC55] Hauray M., Jabin P.-E. N particles approximation of the Vlasov equations. Arch. Ration. Mech. Anal., 183(3) : p. 489–524, 2007.
- [DOC56] Hauray M., Le Bris C., Lions P.-L. Deux remarques sur les flots généralisés d'équations différentielles ordinaires. C. R. Math. Acad. Sci. Paris, 344 : p. 759-764, 2007.

- [DOC57] Hauray M. On Liouville transport equation with force field in \overline{BV}_{loc} . Comm. Partial Differential Equations, 29(1-2) : p. 207-217, 2004.
- [DOC58] Hauray M. On Two-dimensional Hamiltonian Transport Equations with L^p_{loc} coefficients. Ann. Inst. H. Poincaré Anal. Non Linéaire, 20(4) : p. 625-644, 2003.
- [DOC59] Kissita G., Cazes P., Hanafi M., Lafosse R. Deux méthodes d'analyse factorielle du lien entre deux tableaux de variables partitionnées. Revue de Statistique Appliquée LI(3) : p. 73-92, 2004.
- [DOC60] Lewin M. A Mountain Pass for Reacting Molecules. Ann. Henri Poincaré, 5(3) : p. 477-521, 2004.
- [DOC61] Lewin M. Solutions of the Multiconfiguration Equations in Quantum Chemistry. Arch. Ration. Mech. Anal., 171(1) : p. 83–114, 2004.
- [DOC62] Mballo C., Diday E. Affectation pondérée sur des données de type intervalle. Revue des Nouvelles Technologies de l'Information, Numéro E-6 : p. 377-382, 2006.
- [DOC63] Mballo C., Diday E. Arbres de décision sur des données de type intervalle : évaluation et comparaison. Revue des Nouvelles Technologies de l'Information, numéro E-3 : p. 67-78, 2005.
- [DOC64] Mballo C., Diday E. Decision trees on interval valued variables. Electronic Journal of Symbolic Data Analysis, 3(1) : p. 8-18., 2005.
- [DOC65] Mballo C., Diday E. The criterion of Smirnov-Kolmogorov for binary decision tree : application to interval valued variables. Intelligent Data Analysis, 10(4) : p. 325-341, 2006.
- [DOC66] Mballo C., Asseraf M., Diday E. Binary decision trees for interval and taxonomic variables. A Statistical Journal for Graduates Students (incorporating Data and Statistics), 5(1) : p. 13-28, 2004.
- [DOC67] Michel, P. Fitness optimization in a cell division model. C. R. Math. Acad. Sci. Paris 341 (2005), no. 12, 731–736.
- [DOC68] Michel, P., Mischler, S., Perthame, B., General relative entropy inequality : an illustration on growth models, J. Math. Pures Appl. (9) 84 (2005), no. 9, 1235–1260.
- [DOC69] Michel, P., Mischler, S., Perthame, B., General entropy equations for structured population models and scattering, C. R. Math. Acad. Sci. Paris 338 (2004), no. 9, 697–702
- [DOC70] Michel, P. Existence of a solution to the cell division eigenproblem. Math. Models Methods Appl. Sci., 16 (2006), no. 7, suppl., 1125–1153.
- [DOC71] Quaas A. Existence of a positive solution to a “semilinear” equation involving Pucci’s operator in a convex domain. Differential Integral Equations 17 (2004), no. 5-6, 481–494.
- [DOC72] Rainero S. Un principe de grandes déviations pour une équation différentielle stochastique progressive rétrograde. C. R. Math. Acad. Sci. Paris, 343(2) : p. 141-144, 2006.