

Publications dans revues à comité de lecture. Période (2003-2005)

- [1] Champion, T., De Pascale, L., Prinari, F. Γ -convergence and absolute minimizers for supremal functionals. *ESAIM Control Optim. Calc. Var.* 10 (2004), no. 1, 14–27.
- [2] Champion, T. Duality gap in convex programming. *Math. Program.* 99 (2004), no. 3, Ser. A, 487–498.
- [3] Champion, T., De Pascale, L. Homogenization of Dirichlet problems with convex bounded constraints on the gradient. *Z. Anal. Anwendungen* 22 (2003), no. 3, 591–608.
- [4] T. Champion, Tubularity and Asymptotic Convergence of Penalty Trajectories in Convex Programming. *SIAM J. on Optimization*, vol. 13, 1 (2002), 212 – 227.
- [5] S. Maire, C. De Luigi, Quasi-Monte Carlo quadratures for multivariate smooth functions. A paraître dans *Applied Numerical Mathematics*.
- [6] E. Gobet, S. Maire, Sequential control variates for functional of Markov processes. A paraître dans *SIAM Journal on Numerical Analysis*.
- [7] E. Gobet, S. Maire, A spectral Monte Carlo method for the Poisson equation. *Monte Carlo methods and applications*, Vol. 10, No. 3-4, pp. 275-285 (2004).
- [8] S. Maire, Polynomial approximations of multivariate smooth functions from quasi-random data. *Statistics and Computing*, Vol. 14, pp 333-336 (2004).
- [9] S. Maire, Reducing variance using iterated control variates, *The Journal of Statistical Computation and Simulation* Vol. 73 (1), pp 1-29 (2003).
- [10] S. Maire, An iterative computation of approximations on Korobov-like spaces. *Journal of Computational and Applied Mathematics* 157, pp 261-281 (2003).
- [11] S. Maire, Un algorithme probabiliste de calculs d'approximations polynomiales sur un hypercube, *C. R. Acad. Sci. Paris, Ser. I* 336, No.2, pp 185-190 (2003).
- [12] Helluy, Golay, al, Numerical simulations of wave breaking , *M2AN*, Vol 39, n, 2005, pp 501-607
- [13] Golay, Optimisation topologique de forme et raffinement de maillage , *Revue Européenne des éléments finis*, Vol 13, n^o8/2004, pp 881-897.
- [14] T. Barberon and Helluy. Finite volume simulation of cavitating flows. *Computers and Fluids*, 34(7):832–858, 2005.
- [15] T. Barberon, P. Helluy, and S. Rouy. Practical computation of axisymmetrical multifluid flows. *International Journal of Finite Volumes*, 1(1):1–34, 2003.

- [16] M. Camar-Eddine, P. Seppecher, Closure of the set of diffusion functionals with respect to the Mosco-convergence, *Mathematical Models and Methods in Applied Sciences*, Vol. 12, No. 8, p. 1153-1176, 2002.
- [17] J-J. Alibert, F. dell'Isola, P. Seppecher, Truss Modular Beams with Deformation Energy depending on Higher Displacement Gradients, *Mathematics and Mechanics of solids*, Vol 8, Issue 1, p. 51 - 74, 2003.
- [18] M. Camar-Eddine, P. Seppecher, Determination of the closure of the set of elasticity functionals, M. Camar-Eddine, P. Seppecher, *Arch. Ration. Mech. Anal.*, 170 - 3, p. 211 - 245, 2003.
- [19] JJ Alibert - P. Seppecher: Closure of the set of diffusion functionals - the one dimensional case. *Journal of Potential Analysis*, 2005.
- [20] P. Goatin and P.G. LeFloch, L^1 continuous dependence for the Euler equations of compressible fluids dynamics, *Comm. Pure Appl. Anal.* 2 (2003) 1, 107-137.
- [21] P. Goatin, One Sided Estimates and Uniqueness for Hyperbolic Systems of Balance Laws, *Math. Models Methods Appl. Sci.* 13 (2003) 4, 527-543.
- [22] P. Goatin and L. Gosse, Decay of Positive Waves for $n \times n$ Hyperbolic Systems of Balance Laws, *Proc. AMS.* 132 (2004) 6, 1627-1637.
- [23] P. Goatin and P.G. LeFloch, The Riemann Problem for a Class of Resonant Hyperbolic Systems of Balance Laws, *Ann. Inst. H. Poincaré (C) Nonlinear Analysis* 21 (2004) 6, 881-902.
- [24] Schneider, J., Entropic approximation in kinetic theory, *M2AN Math. Model. Numer. Anal.* 38 (2004), no. 3, 541–561.
- [25] Bouchitte, G., Champion, T., Jimenez, C. Completion of the Space of Measures in the Kantorovich Norm, to appear in *Revista Math. Parma*
- [26] G. Bouchitté, D. Felbacq: Left handed media and homogenization of photonic crystals, *Optics letters*, Vol. 30 (2005), 10, 1189–1191.
- [27] G. Bouchitté, D. Felbacq: Homogenization of wire mesh photonic crystals embedded in a medium with a negative permeability, *Phys. Rev. Lett.* 94, 183902 (2005)
- [28] G. Bouchitté, D. Felbacq, F. Zolla. Do Fresnel coefficients exist? *Wave Motion* 42 (2005), no. 1, 75–95.
- [29] A. Bondarenko, G. Bouchitté, L. Mascarenhas, M. Rajesh: Rate of convergence for correctors in almost periodic homogenization, *Continuum Discrete and continuous dynamical systems.*, A, vol 13,2, (2005), 503–514

- [30] G. Bouchitté, I. Fragalà, M. Rajesh, Homogenization of second order energies on periodic thin structures, *Calc. Var. Partial Differential Equations* 20 (2004), no. 2, 175–211.
- [31] G. Alberti, G. Bouchitté, G. Dal Maso: The calibration method for the Mumford-Shah functional and free-discontinuity problems, *Calc. Var. Partial Differential Equations* 16 (2003), no. 3, 299–333.
- [32] G. Bouchitté, G. Buttazzo, L. De Pascale, L. A p -Laplacian approximation for some mass optimization problems. *J. Optim. Theory Appl.* 118 (2003), no. 1, 1–25.
- [33] G. Bouchitté, I. Fonseca, L. Mascarenhas: Bending moment in membrane theory, *J. Elasticity*, 73 (2003), 75–99.
- [34] G. Bouchitté, I. Fonseca, G. Leoni, L. Mascarenhas: A global method for relaxation in $W^{1,p}$ and in SBV_p , *Arch. Rational Mech. Anal.* 165 (2003) 3, 187–242
- [35] Bouchitté, Guy; Fragalà, Ilaria. Second-order energies on thin structures: variational theory and non-local effects. *J. Funct. Anal.* 204 (2003), no. 1, 228–267.
- [36] Acerbi, E.; Bouchitté, G.; Fonseca, I. Relaxation of convex functionals: the gap problem. *Ann. Inst. H. Poincaré Anal. Non Linéaire* 20 (2003), no. 3, 359–390.
- [37] A. Novotny *Introduction to the Mathematical theory of compressible flow (avec I. Stavrakopoulos)*, Oxford University Press, 2004, 506 pg.
- [38] A. Novotny *On some approximation schemes for steady compressible viscous flow (avec M. Bause, J. Heywood, M. Padula)*, *J. Math. Fluid. Mech.* 5 (2003), 201-230
- [39] A. Novotny, S. Novo *On the existence of weak solutions to compressible barotropic Navier-Stokes equations in domains with several conical exits* *J. Math. Fluid. Mech.*, ??, 2005
- [40] A. Novotny *Some notes to the existence of weak solutions to the steady compressible Navier-Stokes equations in bounded domain with Lipschitz boundary (avec S. Novo)*, *Applications of Mathematics* 50 (4) (2005), 331-339
- [41] A. Novotny, E. Feireisl, H. Petzeltova *On a class of physically admissible variational solutions to the Navier-Stokes-Fourier system*, *Zeitschrift für Analysis und ihre Anwendungen*, ??, 2004
- [42] A. Novotny, E. Feireisl *Weak sequential stability of admissible variational solutions to the Navier-Stokes-Fourier system*, accepté *SIAM J. Math. Anal.*
- [43] A. Novotny, S. Novo, M. Pokorný *Steady compressible isentropic Navier-Stokes equations in domains with non compact boundaries* accepté *Math. Meth. Appl. Sci.*
- [44] A. Novotny, E. Feireisl *On a simple model of reacting flows arising in astrophysics* accepté *Proceedings of the Royal Society of Edinburgh, Sect. A*
- [45] A. A. Novotny, M. Pokorný *On the stability of compressible flows in exterior domains with infinite mass*, accepté *Journal of Theor. and Comp. Fluid Mechanics*