

Elenco pubblicazioni

Authors	Title	Year	Source title
Benedetto D.; Caglioti E.; Nolasco M.	MICROCANONICAL PHASE TRANSITIONS FOR THE VORTEX SYSTEM	2024	Mathematics and Mechanics of Complex Systems
Basile G.; Benedetto D.; Bertini L.; Caglioti E.	ASYMPTOTIC PROBABILITY OF ENERGY INCREASING SOLUTIONS TO THE HOMOGENEOUS BOLTZMANN EQUATION	2024	Annals of Applied Probability
Caglioti E.; Pieroni F.	Random Matching in 2D with Exponent 2 for Gaussian Densities	2024	Journal of Statistical Physics
Caglioti E.; Golse F.; Paul T.	Towards optimal transport for quantum densities	2023	Annali della Scuola Normale Superiore di Pisa - Classe di Scienze
Basile G.; Benedetto D.; Caglioti E.; Bertini L.	Large deviations for a binary collision model: energy evaporation†	2023	Mathematics In Engineering
Benedetto D.; Caglioti E.; Rossi S.	Comparison between the Cauchy problem and the scattering problem for the Landau damping in the Vlasov-HMF equation	2022	Asymptotic Analysis
Benedetto D.; Caglioti E.; Rossi S.	MEAN-FIELD LIMIT FOR PARTICLE SYSTEMS WITH TOPOLOGICAL INTERACTIONS	2021	Mathematics and Mechanics of Complex Systems
Benedetto D.; Caglioti E.; Caracciolo S.; D'Achille M.; Sicuro G.; Sportiello A.	Random Assignment Problems on 2d Manifolds	2021	Journal of Statistical Physics
Benedetto D.; Buttà P.; Caglioti E.	Some aspects of the inertial spin model for flocks and related kinetic equations	2020	Mathematical Models and Methods in Applied Sciences
Caglioti E.; Golse F.; Paul T.	Quantum Optimal Transport is Cheaper	2020	Journal of Statistical Physics
Benedetto D.; Caglioti E.	Euclidean Random Matching in 2D for Non-constant Densities	2020	Journal of Statistical Physics
Bellelli A.; Caglioti E.	On the measurement of cooperativity and the physico-chemical meaning of the hill coefficient	2019	Current Protein and Peptide Science
Caglioti E.; Golse F.; Iacobelli M.	Quantization of probability distributions and gradient flows in space dimension 2	2018	Annales de l'Institut Henri Poincaré (C) Analyse Non Lineaire
Caglioti E.; Infusino M.; Kuna T.	Translation invariant realizability problem on the d-dimensional lattice: An explicit construction	2016	Electronic Communications in Probability

Benedetto D.; Caglioti E.; Montemagno U.	Exponential Dephasing of Oscillators in the Kinetic Kuramoto Model	2016	Journal of Statistical Physics
Caglioti E.; Golse F.; Iacobelli M.	A gradient flow approach to quantization of measures	2015	Mathematical Models and Methods in Applied Sciences
Benedetto D.; Caglioti E.; Montemagno U.	On the complete phase synchronization for the kuramoto model in the mean-field limit	2015	Communications in Mathematical Sciences
Marchetti R.; Taloni A.; Caglioti E.; Loreto V.; Pietronero L.	Stationary growth and unique invariant harmonic measure of cylindrical diffusion limited aggregation	2012	Physical Review Letters
Benedetto D.; Caglioti E.; Degli Esposti M.	The unreasonable effectiveness of mathematics in human sciences: The attribution of texts to Antonio Gramsci	2012	Imagine Math: Between Culture and Mathematics
Benedetto D.; Caglioti E.; Cristadoro G.; Degli Esposti M.	Relative entropy via non-sequential recursive pair substitution	2010	Journal of Statistical Mechanics: Theory and Experiment
Tria F.; Caglioti E.; Loreto V.; Pagnani A.	A stochastic local search algorithm for distance-based phylogeny reconstruction	2010	Molecular Biology and Evolution
Pompei S.; Caglioti E.; Loreto V.; Tria F.	Distance-based phylogenetic algorithms: New insights and applications	2010	Mathematical Models and Methods in Applied Sciences
Tria F.; Caglioti E.; Loreto V.; Pagnani A.	A stochastic local search approach to language tree reconstruction	2010	Diachronica
Basile C.; Benedetto D.; Caglioti E.; Esposti M.D.	L'attribuzione dei testi gramsciani: metodi e modelli matematici	2010	Matematica nella Societa e nella Cultura
Caglioti E.; Golse F.	On the Boltzmann-Grad Limit for the Two Dimensional Periodic Lorentz Gas	2010	Journal of Statistical Physics
Bernard E.; Caglioti E.; Golse F.	Homogenization of the linear Boltzmann equation in a domain with a periodic distribution of holes	2010	SIAM Journal on Mathematical Analysis
Caglioti E.; Pulvirenti M.; Rousset F.	On a constrained 2-D Navier-stokes equation	2009	Communications in Mathematical Physics
Basile C.; Benedetto D.; Caglioti E.; Cristadoro G.; Esposti M.	A plagiarism detection procedure in three steps: Selection, matches and squares	2009	CEUR Workshop Proceedings
Caglioti E.; Rousset F.	Long time estimates in the mean field limit	2008	Archive for Rational Mechanics and Analysis
Caglioti E.; Pulvirenti M.; Rousset F.	The 2D constrained Navier-Stokes equation and intermediate asymptotics	2008	Journal of Physics A: Mathematical and Theoretical

Basile C.; Benedetto D.; Caglioti E.; Degli Esposti M.	An example of mathematical authorship attribution	2008	Journal of Mathematical Physics
Caglioti E.; Golse F.	The Boltzmann-Grad limit of the periodic Lorentz gas in two space dimensions	2008	Comptes Rendus Mathematique
Chica C.; Benedetto D.; Caglioti E.	Compressing proteomes: The relevance of medium range correlations	2007	Eurasip Journal on Bioinformatics and Systems Biology
Buttà P.; Caglioti E.; Di Ruzza S.; Marchioro C.	On the propagation of a perturbation in an anharmonic system	2007	Journal of Statistical Physics
Caglioti E.; Rousset F.	Long time behavior of particle systems in the mean field limit	2007	Communications in Mathematical Sciences
Caglioti E.; Rousset F.	Quasi-stationary states for particle systems in the mean-field limit	2007	Journal of Statistical Physics
Baronchelli A.; Felici M.; Loreto V.; Caglioti E.; Steels L.	Sharp transition towards shared vocabularies in multi-agent systems	2006	Journal of Statistical Mechanics: Theory and Experiment
Taloni A.; Caglioti E.; Loreto V.; Pietronero L.	Conformal approach to cylindrical DLA	2006	Journal of Statistical Mechanics: Theory and Experiment
Benedetto D.; Caglioti E.; Gabrielli D.	Non-sequential recursive pair substitution: Some rigorous results	2006	Journal of Statistical Mechanics: Theory and Experiment
Baronchelli A.; Caglioti E.; Loreto V.	Measuring complexity with zippers	2005	European Journal of Physics
Buttà P.; Caglioti E.; Marchioro C.	On the violation of Ohm's law for bounded interactions: A one dimensional system	2004	Communications in Mathematical Physics
Baronchelli A.; Caglioti E.; Loreto V.; Pizzi E.	Dictionary-based methods for information extraction	2004	Physica A: Statistical Mechanics and its Applications
Caglioti E.; Chernov N.; Lebowitz J.L.	Stability of solutions of hydrodynamic equations describing the scaling limit of a massive piston in an ideal gas	2004	Nonlinearity
Benedetto D.; Caglioti E.; Golse F.; Pulvirenti M.	HYDRODYNAMIC LIMITS OF A VLASOV-FOKKER-PLANCK EQUATION FOR GRANULAR MEDIA	2004	Communications in Mathematical Sciences
Buttà P.; Caglioti E.; Marchioro C.	On the motion of a charged particle interacting with an infinitely extended system	2003	Communications in Mathematical Physics
Benedetto D.; Caglioti E.; Loreto V.	Zippering out relevant information	2003	Computing in Science and Engineering

Benedetto D.; Caglioti E.; Loreto V.	Benedetto, Caglioti, and Loreto Reply	2003	Physical Review Letters
Puglisi A.; Benedetto D.; Caglioti E.; Loreto V.; Vulpiani A.	Data compression and learning in time sequences analysis	2003	Physica D: Nonlinear Phenomena
Caglioti E.; Golse F.	On the distribution of free path lengths for the periodic Lorentz gas III	2003	Communications in Mathematical Physics
Benedetto D.; Caglioti E.; Loreto V.	Language Trees and Zipping	2002	Physical Review Letters
Buttà P.; Caglioti E.; Marchioro C.	On the long time behavior of infinitely extended systems of particles interacting via Kac potentials	2002	Journal of Statistical Physics
Benedetto D.; Caglioti E.; Loreto V.	Language trees and zipping	2002	Physical Review Letters
Caglioti E.; Villani C.	Homogeneous cooling states are not always good approximations to granular flows	2002	Archive for Rational Mechanics and Analysis
Caglioti E.; Marchioro C.	On the long time behavior of a particle in an infinitely extended system in one dimension	2002	Journal of Statistical Physics
Caglioti E.; Caprino S.; Marchioro C.; Pulvirenti M.	The Vlasov equation with infinite mass	2001	Archive for Rational Mechanics and Analysis
Caglioti E.; Marchioro C.	Bounds on the growth of the velocity support for the solutions of the Vlasov-Poisson equation in a torus	2000	Journal of Statistical Physics
Benedetto D.; Caglioti E.; Marchioro C.	On the motion of a vortex ring with a sharply concentrated vorticity	2000	Mathematical Methods in the Applied Sciences
Caglioti E.; Marchioro C.; Pulvirenti M.	Non-equilibrium dynamics of three-dimensional infinite particle systems	2000	Communications in Mathematical Physics
Caglioti E.; Loreto V.	Entropy for relaxation dynamics in granular media	1999	Physical Review Letters
Benedetto D.; Caglioti E.; Golse F.; Pulvirenti M.	Hydrodynamic model arising in the context of granular media	1999	Computers and Mathematics with Applications
Benedetto D.; Caglioti E.	The collapse phenomenon in one-dimensional inelastic point particle systems	1999	Physica D: Nonlinear Phenomena
Caglioti E.; Coniglio A.; Herrmann H.J.; Loreto V.; Nicodemi M.	Cooperative length approach for granular media	1999	Physica A: Statistical Mechanics and its Applications

Benedetto D.; Caglioti E.; Libero R.	Non-trapping sets and Huygens principle	1999	Mathematical Modelling and Numerical Analysis
Benedetto D.; Caglioti E.	A Stationary Action Principle for the water sheet	1998	European Journal of Mechanics, B/Fluids
Caglioti E.; Coniglio A.; Herrmann H.J.; Loreto V.; Nicodemi M.	Geometrical frustration: A dynamical motor for dry granular media	1998	Physica A: Statistical Mechanics and its Applications
Caglioti E.; Coniglio A.; Herrmann H.J.; Loreto V.; Nicodemi M.	Segregation of granular mixtures in the presence of compaction	1998	Europhysics Letters
Benedetto D.; Caglioti E.; Carrillo J.A.; Pulvirenti M.	A non-Maxwellian steady distribution for one-dimensional granular media	1998	Journal of Statistical Physics
Caglioti E.; Maffei C.	Time asymptotics for solutions of Vlasov-Poisson equation in a circle	1998	Journal of Statistical Physics
Benedetto D.; Caglioti E.; Pulvirenti M.	A kinetic equation for granular media	1997	Mathematical Modelling and Numerical Analysis
Caglioti E.; Loreto V.; Herrmann H.J.; Nicodemi M.	A “tetris-like” model for the compaction of dry granular media	1997	Physical Review Letters
Benedetto D.; Caglioti E.; Pulvirenti M.	A one dimensional Boltzmann equation with inelastic collisions	1997	Rendiconti del Seminario Matematico e Fisico di Milano
Caglioti E.; Loreto V.	Dynamical properties and predictability of a class of self-organized critical models	1996	Physical Review E - Statistical Physics, Plasmas, Fluids, and Related Interdisciplinary Topics
Caglioti E.; Maffei C.	Asymptotic Behaviour of Vortex Patches: A Case of Confinement	1996	Bollettino della Unione Matematica Italiana B
Caglioti E.; Lions P.L.; Marchioro C.; Pulvirenti M.	A special class of stationary flows for two-dimensional euler equations: A statistical mechanics description. Part II	1995	Communications in Mathematical Physics
Caglioti E.; Celino M.	Charge density wave depinning transition: a real space renormalization group approach	1993	Physica A: Statistical Mechanics and its Applications
Caglioti E.; Lions P.L.; Marchioro C.; Pulvirenti M.	A special class of stationary flows for two-dimensional Euler equations: A statistical mechanics description	1992	Communications in Mathematical Physics
Marsili M.; Caglioti E.	The smoothed Laplacian model: A mean field approximation to Laplacian growth	1991	Physica A: Statistical Mechanics and its Applications
Caglioti E.; Trillo S.; Wabnitz S.; Crosignani B.; Di Porto P.	Finite-dimensional description of nonlinear pulse propagation in optical-fiber couplers with applications to soliton switching	1990	Journal of the Optical Society of America B: Optical Physics

Caglioti E.; Crosignani B.; Di Porto P.	Maximum fractional energy transmissible over a linear dispersive medium	1989	Optics Letters
Caglioti E.; Trillo S.; Wabnitz S.; Stegeman G.I.	Limitations to all-optical switching using nonlinear couplers in the presence of linear and nonlinear absorption and saturation	1988	Journal of the Optical Society of America B: Optical Physics
Caglioti E.; Crosignani B.; Di Porto P.	Hamiltonian description of nonlinear propagation in optical fibers	1988	Physical Review A
Stegeman G.I.; Caglioti E.; Trillo S.; Wabnitz S.	Parameter trade-offs in nonlinear directional couplers: Two level saturable nonlinear media	1987	Optics Communications
Caglioti E.; Trillo S.; Wabnitz S.	Stochastic polarization instability: Limitation to optical switching using fibers with modulated birefringence	1987	Optics Letters
Caglioti E.; Trillo S.; Wabnitz S.; Daino B.; Stegeman G.I.	Power-dependent switching in a coherent nonlinear directional coupler in the presence of saturation	1987	Applied Physics Letters