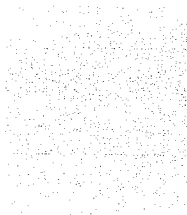


INFORMAZIONI PERSONALI

Emanuele Caglioti


 [Redacted]
 [Redacted]  [Redacted]
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Sesso **Maschio** | Data di nascita [Redacted] | Nazionalità **Italiana**

POSIZIONE RICOPERTA

Professore Ordinario di Fisica Matematica presso il Dipartimento di Matematica Università di Roma "La Sapienza"
Direttore di Dipartimento

ESPERIENZA PROFESSIONALE

dal 2003 1999 – 2003 1992 – 1999	Professore Ordinario di Fisica Matematica presso il Dipartimento di Matematica Università di Roma "La Sapienza" Professore Associato di Fisica Matematica Ricercatore Universitario di Fisica Matematica
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ISTRUZIONE E FORMAZIONE

1993 1988	Dottorato in Fisica all' Università di Roma "La Sapienza" Laurea in Fisica all' Università di Roma "La Sapienza"
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COMPETENZE PERSONALI

Lingua madre **Italiano**

Altra lingua

	COMPRENSIONE		PARLATO	PRODUZIONE SCRITTA	
	Ascolto	Lettura	Interazione	Produzione orale	
inglese	B1	B2	B2	B2	B2

Competenze organizzative e gestionali

Componente del Senato Accademico (dal 2013)
Direttore del Dipartimento di Matematica (dal 2012)
Presidente del Consiglio di Area Didattica di Matematica (2009 - 2011)

Competenze professionali

Fisica Matematica – Matematica Applicata – Modellazione Matematica – Meccanica Statistica – Sistemi Dinamici – Teorie Cinetiche – Teoria dell'Informazione – Equazioni alle Derivate Parziali

Competenze informatiche

Ottima conoscenza dei seguenti linguaggi di programmazione: Python, Fortran, LISP, C, TeX, VB, PHP, HTML

Altre competenze

Attribuzione dell'autore – Classificazione di testi

Patente di guida

B1

ULTERIORI INFORMAZIONI

Pubblicazioni

- 69) R. MARCHETTI, A. TALONI, E. CAGLIOTI, V. LORETO, L. PIETRONERO (2012). Stationary growth and unique invariant harmonic measure of cylindrical DLA PHYSICAL REVIEW LETTERS (ISSN:0031-9007), 109, 065501 (2012);
- 68) D. BENEDETTO; E. CAGLIOTI; G. CRISTADORO; M. DEGLI ESPOSTI (2010). Relative entropy via non-sequential recursive pair substitution JOURNAL OF STATISTICAL MECHANICS: THEORY AND EXPERIMENT (ISSN:1742-5468), 1- 15, 09;
- 67) E. CAGLIOTI; GOLSE F (2010). On the Boltzmann-Grad limit for the two dimensional periodic Lorentz gas JOURNAL OF STATISTICAL PHYSICS (ISSN:0022-4715), 264- 317, 141, 2;
- 66) F. TRIA; E. CAGLIOTI; V. LORETO; A. PAGNANI (2010). A Stochastic Local Search Algorithm for Distance-Based Phylogeny Reconstruction MOLECULAR BIOLOGY AND EVOLUTION (ISSN:0737-4038), 2587- 2595, 27 (11);
- 65) E. CAGLIOTI; V. LORETO; S. POMPEI; F. TRIA (2010). Distance-based Phylogenetic algorithms: new insights and applications MATHEMATICAL MODELS AND METHODS IN APPLIED SCIENCES (ISSN:0218-2025), 1511- 1532, 20;
- 64) F. TRIA; E. CAGLIOTI; V. LORETO; A. PAGNANI (2010). A stochastic local search approach to language tree reconstruction 341- 358, 27;
- 63) E. Bernard, E. Caglioti, F. Golse (2010). Homogenization of the Linear Boltzmann Equation in a Domain with a Periodic Distribution of Holes SIAM JOURNAL ON MATHEMATICAL ANALYSIS (ISSN:0036-1410), 2082- 2113, 42;
- 62) C. BASILE; D. BENEDETTO; E. CAGLIOTI; M. DEGLI ESPOSTI (2010). L'attribuzione dei testi gramsciani: metodi e modelli matematici LA MATEMATICA NELLA SOCIETÀ E NELLA CULTURA (ISSN:1972-7356), 235- 269, III;
- 61) E. CAGLIOTI; PULVIRENTI M; ROUSSET F (2009). On a constrained 2-D Navier-Stokes equation COMMUNICATIONS IN MATHEMATICAL PHYSICS (ISSN:0010-3616), 651- 677, n.2;
- 60) E. CAGLIOTI; PULVIRENTI M; ROUSSET F (2008). The 2D constrained Navier-Stokes equation and intermediate asymptotics JOURNAL OF PHYSICS. A, MATHEMATICAL AND THEORETICAL (ISSN:1751-8113), 344001- 344001, 41;
- 59) E. CAGLIOTI; GOLSE F (2008). The Boltzmann-Grad limit of the periodic Lorentz gas in two space dimensions COMPTES RENDUS MATHÉMATIQUES DE L'ACADEMIE DES SCIENCES (ISSN:0706-1994), 477- 482, 346 (7-8);
- 58) BASILE C; BENEDETTO D; E. CAGLIOTI; DEGLI ESPOSTI M (2008). An example of mathematical authorship attribution JOURNAL OF MATHEMATICAL PHYSICS (ISSN:0022-2488), 125211- 125231, 49 no.12;
- 57) E. CAGLIOTI; ROUSSET F (2008). Long time estimates in the mean field limit ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS (ISSN:0003-9527), 517- 547, 190/3;
- 56) BENEDETTO D; E. CAGLIOTI; CHICA C (2007). Compressing proteomes: the relevance of medium range correlations EURASIP JOURNAL ON BIOINFORMATICS AND SYSTEMS BIOLOGY (ISSN:1687-4145), 1- 8, 2007;
- 55) E. CAGLIOTI; ROUSSET F (2007). Quasi-stationary states for particle systems in the mean-field limit JOURNAL OF STATISTICAL PHYSICS (ISSN:0022-4715), 241- 263, 129;
- 54) P. BUTTA', E. CAGLIOTI, S. DI RUZZA, C. MARCHIORO (2007). On the propagation of a perturbation in an anharmonic system JOURNAL OF STATISTICAL PHYSICS (ISSN:0022-4715), 313- 325, 127;
- 53) E. CAGLIOTI; ROUSSET F (2007). Long time behavior of particle system in the mean field limit COMMUNICATIONS IN MATHEMATICAL SCIENCES (ISSN:1539-6746), 11- 19, 5 (suppl 1);
- 52) A. TALONI; E. CAGLIOTI; V. LORETO; L. PIETRONERO (2006). Conformal approach to cylindrical DLA JOURNAL OF STATISTICAL MECHANICS: THEORY AND EXPERIMENT (ISSN:1742-5468), P09004- P09014, P09004;
- 51) A. BARONCHELLI; M. FELICI; V. LORETO; E. CAGLIOTI; L. STEELS (2006). Sharp transition towards shared vocabularies in multi-agent systems JOURNAL OF STATISTICAL MECHANICS: THEORY AND EXPERIMENT (ISSN:1742-5468), P06014- P06019, P06014;
- 50) D. BENEDETTO; E. CAGLIOTI; D. GABRIELLI (2006). Non-sequential recursive pair substitution: some rigorous results JOURNAL OF STATISTICAL MECHANICS: THEORY AND EXPERIMENT (ISSN:1742-5468), 1- 21, 09;
- 49) E. CAGLIOTI; KUNA T; LEBOWITZ J.L; SPEER E (2006). Point processes with specified low order correlations MARKOV PROCESSES AND RELATED FIELDS (ISSN:1024-2953), 257- 272, 12- 2;
- 48) A. BARONCHELLI; E. CAGLIOTI; V. LORETO (2005). Artificial sequences and complexity measures JOURNAL OF STATISTICAL MECHANICS: THEORY AND EXPERIMENT (ISSN:1742-5468), P04002:1- P04002:10, P04002;
- 47) A. BARONCHELLI; E. CAGLIOTI; V. LORETO (2005). Measuring complexity with zippers EUROPEAN JOURNAL OF PHYSICS (ISSN:0143-0807), S69- S77, 26;
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- 45) P. BUTTA', E. CAGLIOTI, C. MARCHIORO (2004). On the Violation of Ohm's Law for Bounded Interactions: a One Dimensional System COMMUNICATIONS IN MATHEMATICAL PHYSICS (ISSN:0010-3616), 353- 382, 249;
- 44) BENEDETTO D.; E. CAGLIOTI; GOLSE F.; PULVIRENTI M. (2004). Hydrodynamics Limits of

- Vlasov-Fokker-Planck equation for granular media COMMUNICATIONS IN MATHEMATICAL SCIENCES (ISSN:1539-6746), 121- 136, 2, No 1;
- 43) E. CAGLIOTI; N. CHERNOV N.; J. L. LEBOWITZ (2004). Stability of Solutions of Hydrodynamic Equations Describing the Scaling Limit of a Massive Piston in an Ideal Gas NONLINEARITY (ISSN:0951-7715), 897- 923, 17;
- 42) BENEDETTO D.; E. CAGLIOTI; LORETO V. (2003). Zipping out relevant information COMPUTING IN SCIENCE & ENGINEERING (ISSN:1521-9615), 80- 85, 5 (1);
- 41) P. BUTTA; E. CAGLIOTI, C. MARCHIORO (2003). On the Motion of a Charged Particle Interacting with an Infinitely Extended System COMMUNICATIONS IN MATHEMATICAL PHYSICS (ISSN:0010-3616), 545- 569, 233;
- 40) PUGLISI A; BENEDETTO D; CAGLIOTI E; V. LORETO; VULPIANI A (2003). Data Compression and Learning in time sequences analysis PHYSICA D-NONLINEAR PHENOMENA (ISSN:0167-2789), 92- 107, 180/1-2;
- 39) E. CAGLIOTI; GOLSE F. (2003). On the distribution of free path lengths for the periodic Lorentz gas COMMUNICATIONS IN MATHEMATICAL PHYSICS (ISSN:0010-3616), 199- 221, 236;
- 38) E. CAGLIOTI; VILLANI C. (2002). Homogeneous Cooling States are not always good approximations to granular flows ARCHIVE FOR RATIONAL MECHANICS AND ANALYSIS (ISSN:0003-9527), 329- 343, 163/4;
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- 28) D. BENEDETTO; E. CAGLIOTI (1999). The Collapse Phenomenon in one dimensional inelastic point particle systems PHYSICA D-NONLINEAR PHENOMENA (ISSN:0167-2789), 457- 475, 132;
- 27) D. BENEDETTO; E. CAGLIOTI; R. LIBERO (1999). Non-Trapping Sets and Huygens Principle MODELISATION MATHEMATIQUE ET ANALYSE NUMÉRIQUE (ISSN:0764-583X), 517- 530, 33, n.3;
- 26) E. Caglioti, V. Loreto (1999). Entropy for relaxation dynamics in granular media PHYSICAL REVIEW LETTERS (ISSN:0031-9007), 4333- 4336, 83;
- 25) E. Caglioti, A. Coniglio, H.J. Hermann, V. Loreto (1999). Cooperative length approach for granular media PHYSICA. A (ISSN:0378-4371), 311- 318, 265;
- 24) D. BENEDETTO; E. CAGLIOTI; F. GOLSE; M. PULVIRENTI (1999). A hydrodynamic model arising in the context of granular media COMPUTERS & MATHEMATICS WITH APPLICATIONS (ISSN:0898-1221), 121- 131, 38, 7-8;
- 23) D. BENEDETTO; E. CAGLIOTI; M. PULVIRENTI (1999). Erratum: A kinetic equation for granular media MODÉLISATION MATHÉMATIQUE ET ANALYSE NUMÉRIQUE (ISSN:0764-583X), 439- 441, 33, n.2;
- 22) CAGLIOTI E; C. MAFFEI (1998). Time asymptotics for solutions of Vlasov-Poisson equation in a circle JOURNAL OF STATISTICAL PHYSICS (ISSN:0022-4715), 301- 323, 92, 1/2;
- 21) E. Caglioti, A. Coniglio, H.J. Hermann, V. Loreto, M. Nicodemi (1998). Segregation of granular mixtures in presence of compaction EUROPHYSICS LETTERS (ISSN:0295-5075), 591- 597, 43;
- 20) D. BENEDETTO; E. CAGLIOTI (1998). The Water Bell: an attempt to derive it RENDICONTI DI MATEMATICA E DELLE SUE APPLICAZIONI (ISSN:1120-7183), 529- 548, Ser. VII, 18;
- 19) D. BENEDETTO; E. CAGLIOTI; J.A. CARRILLO; M. PULVIRENTI (1998). A non-Maxwellian steady distribution for one-dimensional granular media JOURNAL OF STATISTICAL PHYSICS (ISSN:0022-4715), 979- 990, 91,5/6;
- 18) D. BENEDETTO; E. CAGLIOTI (1998). A Stationary Action Principle for the Water Sheet EUROPEAN JOURNAL OF MECHANICS. B, FLUIDS (ISSN:0997-7546), 769- 772, 5;
- 17) BENEDETTO D.; E. CAGLIOTI; PULVIRENTI M. (1997). A Kinetic Equation for Granular Media MODÉLISATION MATHÉMATIQUE ET ANALYSE NUMÉRIQUE (ISSN:0764-583X), 615- 641, 31, n.5;

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- 15) E. Caglioti, V. Loreto, H.J. Herrmann, M. Nicodemi (1997). A "tetris-like" model for the compaction of dry granular media PHYSICAL REVIEW LETTERS (ISSN:0031-9007), 1575- 1578, 79;
- 14) D. BENEDETTO; E. CAGLIOTI; M. PULVIRENTI (1997). A one dimensional Boltzmann equation with inelastic collisions RENDICONTI DEL SEMINARIO MATEMATICO E FISICO DI MILANO (ISSN:0370-7377), 169- 179, LXVII;
- 13) E. Caglioti, V. Loreto (1996). Dynamical properties and predictability in a class of self-organized critical models PHYSICAL REVIEW E (ISSN:1063-651X), R2953- R2956, 53;
- 12) CAGLIOTI E; C. MAFFEI (1996). ASYMPTOTIC BEHAVIOUR OF VORTEX PATCHES: A CASE OF CONFINEMENT BOLLETTINO DELL'UNIONE MATEMATICA ITALIANA. A (ISSN:0392-4033), 261- 276, 7 10-B;
- 11) CAGLIOTI E.; MARCHIORO C.; LIONS P.L.; M. PULVIRENTI (1995). A Special Class of Stationary Flows for Two-Dimensional Euler Equation: A Statistical Mechanics Description. Part II COMMUNICATIONS IN MATHEMATICAL PHYSICS (ISSN:0010-3616), 229- 260, 174 n. 2;
- 10) E. CAGLIOTI; CELINO M (1993). Charge density wave depinning transition: a real space renormalization group approach PHYSICA. A (ISSN:0378-4371), 309- 322, 192;
- 9) CAGLIOTI E; LIONS P.L; MARCHIORO C; M. PULVIRENTI (1992). A special class of stationary flows for two-dimensional Euler equations: a statistical mechanics description. COMMUNICATIONS IN MATHEMATICAL PHYSICS (ISSN:0010-3616), 501- 525, no.3;
- 8) MARSILI M; E. CAGLIOTI (1991). The Smoothed Laplacian Model: A Mean Field Limit Approximation To Laplacian Growth PHYSICA. A (ISSN:0378-4371), 463- 484, 176 - 3;
- 7) E. CAGLIOTI; TRILLO S; WABNITZ S; CROSIGNANI B; DI PORTO P (1990). Finite dimensional description of non linear pulse propagation in optical fibers with application to soliton switching JOURNAL OF THE OPTICAL SOCIETY OF AMERICA. A, OPTICS AND IMAGE SCIENCE (ISSN:0740-3232), 374- 385, 7 - 3;
- 6) E. CAGLIOTI; CROSIGNANI B; DI PORTO; P (1990). Maximum fractional energy transmissible over a linear dispersive media OPTICS LETTERS (ISSN:0146-9592), 14;
- 5) E. CAGLIOTI; CROSIGNANI B; DI PORTO P (1988). Hamiltonian description of nonlinear propagation in optical fibers PHYSICAL REVIEW A, GENERAL PHYSICS (ISSN:0556-2791), 38 (8);
- 4) E. CAGLIOTI; TRILLO S; WABNITZ S; STEGEMAN G.I (1988). Limitation to all-optical switching using non linear couplers in the presence of linear and non linear absorption and saturation JOURNAL OF THE OPTICAL SOCIETY OF AMERICA. A, OPTICS AND IMAGE SCIENCE (ISSN:0740-3232), 472- 482, 5 (2);
- 3) E. CAGLIOTI; TRILLO S; WABNITZ S; DAINO B (1987). Power dependent switching in a coherent nonlinear coupler in the presence of saturation, Applied Physics Letter 51 (5), pp.293-295, (1987). APPLIED PHYSICS LETTERS (ISSN:0003-6951), 293- 295, 51 (5);
- 2) STEGEMAN G.I; E. CAGLIOTI; TRILLO S; WABNITZ S (1987). Parameter trade-offs in non linear directional couplers: two level saturable nonlinear media OPTICS COMMUNICATIONS (ISSN:0030-4018), 281- 284, 63 (5);
- 1) E. CAGLIOTI; TRILLO S; WABNITZ S (1987). Stochastic polarization instability: limitation to optical switching using fibers and modulated birefringence OPTICS LETTERS (ISSN:0146-9592), 1044- 1046, 12 (12).

Conferenze e Convegni

Alcune conferenze recenti

Journee' Claude Bardos

1 luglio, 2012, Universite Pierre et Marie Curie (Paris)

Workshop on Geometry and Dynamics of Fluid

21-25 maggio, 2012, CRM Montreal

Workshop on Symplectic Dynamics II

12-16 marzo, 2012, IAS (Princeton)

Boltzmann equation: mathematics, modeling and simulations

In memory of Carlo Cercignani

9-11 febbraio, 2011, Institut Henri Poincaré, Paris