PROGRAM

Second Italian Meeting

on

Probability and Mathematical Statistics

June 17 - 20, 2019, Vietri sul Mare (SA), Italy



Monday 17th June

8:00 - 9:30	Registration	
9:30 - 10:15	Opening	
10:15 - 11:10	Plenary Talk (Room F) Intrinsic volumes of convex bodies and cones: concentration, limit theorems and sparse recovery Giovanni Peccati, Luxembourg University Chair: D. Marinucci, University of Roma Tor Vergata	
11:10 - 11:45	Coffee break	
Session S17F1	New applications of the Stein-Malliavin method for Gaussian approximation(Room F)Organizer/Chair:A. Vidotto, University of Roma Tor Vergata	
11:45 - 12:10	Stein-Malliavin techniques and Poisson based U-statistics: asymptotics C. Durastanti, Sapienza University, Roma	
12:10 - 12:35	Stein-Malliavin approximation for local geometric functionals of random spherical harmonics A.P. Todino, Ruhr University Bochum	
12:35 - 13:00	Stein-Malliavin techniques for spherical functional autoregressions A. Caponera, Sapienza University, Roma	
Session S17E	Conditional expectations and Bayesian nonparametric problems(Room E)Chair:F. Spizzichino, Sapienza University, Roma)
11:45 - 12:10	A Bayes nonparametric prior for semi-Markov processes P. Muliere, Bocconi University	
12:10 - 12:35	Can one define conditional expectations for probability charges? C. Sempi, University of Salento	
12:35 - 13:00	Clustering structure for species sampling sequences with general base measure F. Bassetti, Polytechnic University of Milano	
Session S17D	1 Stochastic processes and applications in finance(Room D)Organizers/Chairs:E. Di Nardo, University of TorinoP. Semeraro, Polytechnic University of Torino	
11:45 - 12:10	Insurance capacity E. Luciano, University of Torino	
12:10 - 12:35	Asymptotic results for the Fourier estimator of the integrated quarticity M.E. Mancino, University of Firenze	
12:35 - 13:00	On the combinatorics of cumulants for multivariate subordinated Lévy processes E. Di Nardo, University of Torino	
Session S17C	Optimal control of random systems (Room C) Organizer/Chair: G. Zanco, LUISS Guido Carli)
11:45 - 12:10	<i>Optimal control of a stochastic phase-field model for tumor growth</i> L. Scarpa, University of Vienna	
12:10 - 12:35	Some optimal control problems for non-local random systems C. Orrieri, University of Trento	
12:35 - 13:00	Path dependent HJB equations via BSDEs F. Masiero, University of Milano Bicocca	

Monday 17th June

13:00 – 14:30 Lunch

Session S17F2	Information geometryOrganizers/Chairs:P. Siri, Polytechnic University of Torino, Italy B. Trivellato, Polytechnic University of Torino, Italy	(Room F)
14:30 - 14:55	Information geometry of the Gaussian space G. Pistone, Collegio Carlo Alberto, Torino, Italy	
14:55 - 15:20	Derivative-free optimization by Wasserstein natural gradient L. Malagò, Romanian Institute of Science and Technology, Romania	
15:20 - 15:45	Non-geometric rough paths on manifolds E. Rossi Ferrucci, Imperial College London, United Kingdom	
Session S17E2	<i>Advances in stochastic processes</i> Chair: C. Ceci, University of Chieti-Pescara, Italy	(Room E)
14:30 - 14:55	On the existence of continuous processes with given one-dimensional distributions P. Rigo, University of Pavia, Italy	
14:55 - 15:20	Quasi-infinitely divisible processes and measures B Passeggeri Imperial College London United Kingdom	
15:20 - 15:45	Intermediate and small scale limiting theorems for random fields R. Maffucci, University of Oxford, United Kingdom	
Session S17D2	2 Dependence modeling	(Room D)
	Organizer/Chair: F. Durante, University of Salento, Italy	
14:30 - 14:55	Nonparametric Bayesian estimation of the extremal dependence S. Padoan, Bocconi University, Italy	
14:55 - 15:20	Measuring linear correlation between random vectors G. Puccetti, University of Milano, Italy	
15:20 - 15:45	Representation of multivariate Bernoulli distributions with a given set of specified moments P. Semeraro, Polytechnic University of Torino, Italy	
Session S17C2	Advanced control problems, stochastic simulation and estimates for diffusions	(Room C)
	Chair: C. Macci, University of Roma Tor Vergata, Italy	
14:30 - 14:55	Multi-level Monte-Carlo methods and upper/lower bounds in nested risk computations S. De Marco, Ecole Polytechnique, France	
14:55 - 15:20	Estimating functions for discretely observed diffusion processes conditioned to nonabsorption R. Sirovich, University of Torino, Italy	
15:20 - 15:45	An algorithm to construct subsolutions of convex optimal control problems G. Bet, University of Firenze, Italy	

Monday 17th June

15:45 – 16:15	Coffee break	
Session S17F3	<u>Recent developments in stochastic geometry</u> Organizer/Chair: C. Durastanti, Sapienza University, Roma, Italy	(Room F)
16:15 - 16:40	Two point function for critical points of a random plane wave V. Cammarota, Sapienza University, Roma, Italy	
16:40 - 17:05	Nodal lengths of random spherical harmonics M. Rossi, University of Pisa, Italy	
17:05 - 17:30	The isotropic constant of random polytopes N. Turchi, University of Luxembourg, Luxembourg	
17:30 - 17:55	Fourth moment theorems on the Poisson space in any dimension A. Vidotto, University of Roma Tor Vergata, Italy	
Session S17E3	<u>B</u> <u>Stochastic quantization, invariant measures and mean-field limits</u> Organizer/Chair: G. Pistone, Collegio Carlo Alberto, Torino, Italy	(Room E)
16:15 - 16:40	Fluctuations of point vortices and 2D Euler invariant measures E. Grotto, Scuola Normale Superiore of Pisa, Italy	
16:40 - 17:05	Strong Kac's chaos in the mean-field Bose-Einstein Condensation	
17:05 - 17:30	<i>Elliptic stochastic quantization</i> F. De Vecchi, University of Bonn, Germany	
Session S17D2	<u>3 Finitely additive probabilities and some of their applications</u>	(Room D)
	Organizer/Chair: P. Rigo, University of Pavia, Italy	
16:15 - 16:40	Probability and uncertainty in decision theory S. Cerreia-Vioglio, Bocconi University, Italy	
16:40 - 17:05	Decisions under different scenarios in a finitely additive framework	
17:05 - 17:30	<i>Finitely additive set-valued measures and applications in economic theory</i> N. Urbinati, University of Napoli Federico II, Italy	
Session S17C3	B <u>Random interfaces and universality</u> Organizer/Chair: E. Bisi, University College Dublin, Ireland	(Room C)
16:15 - 16:40	Corner growth model, symplectic characters, and KPZ universality	
16:40 - 17:05	<i>A new universality class for</i> $(1+1)$ -dimensional random interfaces: the Brownian castle	
17:05 - 17:30	G. Cannizzaro, University of Warwick, United Kingdom Entropic repulsion for the Gaussian free field conditioned on disconnection by level-sets A. Chiarini, ETH Zurich, Switzerland	

Tuesday 18th June

Session S18F1	Results on stochastic geometry and growth-fragmentation equationsChair:B. Martinucci, University of Salerno	(Room F)
9:00 - 9:25	The generalized moment method for parameters estimate in stochastic fibre processes A. Micheletti, University of Milano	
9:25 – 9:50	A probabilistic approach to the asymptotic behaviour of the growth-fragmentation equations B. Cavalli, University of Zürich	
9:50 - 10:15	On the estimation of the mean density of lower dimensional germ-grain models in R ^d E. Villa, University of Milano	
Session S18E1	Advances in Bayesian modelling	(Room E)
	Organizer:I. Pruenster, Bocconi UniversityChair:F. Bassetti, Polytechnic University of Milano, Italy	
9:00 - 9:25	Quantifying the dependence structure in Bayesian nonparametric models M. Catalano, Bocconi University	
9:25 – 9:50	Hybrid nonparametric priors for clustering G. Rebaudo, Bocconi University	
9:50 - 10:15	Closed form Bayesian filtering for multivariate binary time series A. Fasano, Bocconi University	
Session S18D1	Recent results in insurance and market dynamics	(Room D)
	Chair: F. Pellerey, Polytechnic University of Torino	
9:00 - 9:25	Analytical approximation of counterparty value adjustment A. Ramponi, University of Roma Tor Vergata	
9:25 - 9:50	Joint life insurance pricing using extended Marshall-Olkin models S. Mulinacci, University of Bologna	
9:50 - 10:15	A new approach to forecast market interest rates R.M. Mininni, University of Bari	
Session S18C1	Probabilistic algorithms and games on networksOrganizers/Chairs:M. Quattropani, University of Roma Tre M. Scarsini, LUISS Guido Carli	(Room C)
9:00 - 9:25	The buck passing game on networks	
9:25 – 9:50	M. Quattropani, University of Roma Tre Processing data sets on networks: random forests and other probabilistic tools L. Avena, Leiden University	
9:50 - 10:15	On the emergent behavior of the 2-choices dynamics E. Cruciani, Gran Sasso Science Institute	

Tuesday 18th June

10:15 - 11:10	Plenary Talk	(Room F)
	Bootstrap percolation and kinetically constrained particle systems: critical time scales	
	Fabio Martinelli, University of Roma Tre Chair: D. Dei Pra, University of Padova	
	Chair. F. Dai Fia, Oniversity of Fadova	
11:10 - 11:45	Coffee break	
Session S18F2	<u>2 Backward stochastic differential equations and their applications</u>	(Room F)
	E Issoglio University of Leeds	
	L. Issogno, entrensity of ficeds	
11:45 – 12:10	BSDEs driven by possibly non quasi-left-continuous random measures and optimal cont	rol of PDMPs
1010 1025	E. Bandini, University of Milano Bicocca	1
12:10 - 12:35	Optimal switching problems with an infinite set of modes: an approach by randomization constrained backward SDEs	ana
	M. Fuhrman, University of Milano	
12:35 - 13:00	A Feynman-Kac result via Markov BSDEs with generalized drivers	
	E. Issoglio, University of Leeds	
Session S18E	2 Analysis in Wiener spaces 1	(Room E)
	Organizer/Chair: S. Bonaccorsi, University of Trento	
11:45 – 12:10	Integration by parts formulae on open convex sets in Wiener spaces	
12.10 - 12.35	G. Menegatti, University of Ferrara Equivalent characterizations of BI/ functions on domains of Wiener spaces	
12.10 12.55	M. Miranda Jr, University of Ferrara	
12:35 - 13:00	Surface measures and integration by parts formula on levels sets induced by functionals of	the Brownian
	motion in R ⁿ	
	M. Zanella, LUISS Guido Carli	
Session S18D	2 Reliability, stochastic dependence and differential games	(Room D)
	Chair: M. Longobardi, University of Napoli Federico II	
11.45 12.10	Dala of multiversists and ditional basend notes in the analysis of your transitivity and	
11:45 - 12:10	Kole of multivariale conditional nazara rates in the analysis of non-transitivity and agoregation marginalization paradoxes for vectors of non-negative random variables	
	F. Spizzichino, Sapienza University	
12:10 - 12:35	ROCOF of higher order for continuous time semi-Markov systems	
10.25 12.00	G. D'Amico, University of Chieti-Pescara	
12:35 - 13:00	Nonzero-sum stochastic differential games between an impulse controller and a stopper D. De Santis, London School of Economics	
	D. De Sands, London School of Leonomies	
Session S18C2	2 KPZ and new universality	(Room C)
	Organizer/Chair: A. Occelli, Bonn University	
11:45 – 12:10	Stationary half-space last passage percolation	
	A. Occelli, Bonn University	
12:10 - 12:35	The finite temperature Plancherel measure and process	
10.25 12.00	D. Betea, Bonn University	
12:35 - 13:00	P Neijar Institute of Science and Technology Klosterneuburg	
	require institute of occaree and reenhology, Rosterneuburg	

Tuesday 18th June

13:00 – 14:30 L	unch	
Session S18F3	Methods for stochastic filtering and optimal control of processes with jumps Organizers/Chairs: E. Bandini, University of Milano Bicocca A. Calvia, University of Milano Bicocca	(Room F)
14:30 – 14:55	Stochastic filtering of a pure jump process with jump-diffusion observation and path-deper characteristics	ndent local
14:55 – 15:20 (K. Colaneri, University of Leeds <i>Optimal control of stochastic processes with jumps: a backward stochastic differential equa</i> F. Confortola, Polytechnic University of Milano	ations approach
15:20 - 15:45 (<i>Optimal reduction of public debt under partial observation of the economic growth</i> G. Ferrari, Bielefeld University	
Session S18E3	<u>Analysis in Wiener spaces 2</u> Organizer/Chair: S. Bonaccorsi, University of Trento	(Room E)
14:30 – 14:55	Analyticity of nonsymmetric Ornstein-Uhlenbeck semigroup with respect to a weighted G measure	Faussian
14:55 – 15:20 Z	D. Addona, University of Milano Bicocca Absolute continuity and Fokker-Planck equation for the law of Wong-Zakai approxime SDEs	ations of Ito
15:20 – 15:45 🖌	A. Lanconelli, University of Bologna 4 <i>n infinite dimensional Gaussian random matching problem</i> D. Trevisan, University of Pisa	
Session S18D3	Random dynamical systems and related problems Chair: T. Vargiolu, University of Padova	(Room D)
14:30 – 14:55	<i>Hilbert modules in probability</i> M. Skeide, University of Molise	
14:55 – 15:20	Optimal stopping of the exponential of a Brownian bridge A. Milazzo, Imperial College London	
15:20 – 15:45	<i>Optimal installation of solar panels: a two-dimensional singular control problem</i> T. Vargiolu, University of Padova	
Session S18C3	<u>Chemical reaction networks</u> Organizer/Chair: E. Bibbona, Polytechnic University of Torino	(Room C)
14:30 – 14:55	An introduction to chemical reaction network models E. Bibbona, Polytechnic University of Torino	
14:55 – 15:20	Stationary distributions for biochemical reaction networks D. Cappelletti, ETH Zurich	
15:20 – 15:45	Large deviations for chemical reaction networks A. Agazzi, Duke University, Durham	

Tuesday 18th June

15:45 – 16:15 Coff	ee break
<u>Session S18F4</u> <u>Stock</u> Orga	anizer/Chair: I.G. Minelli, University of L'Aquila (Room F)
16:15 – 16:40 <i>Opin</i> M A	ion dynamics with Lotka-Volterra type interactions Jeandri LUISS Guido Carli
16:40 – 17:05 Synch	ronization in interacting stochastic systems with individual and collective reinforcement
17:05 – 17:30 <i>Opini</i> I.G.	<i>ion dynamics in random networks evolving via preferential attachment</i> Minelli, University of L'Aquila
Session S18C4 Spun Orga	<i>ti didattici e formativi di probabilità e statistica per le scuole secondarie</i> (Room C) anizer/Chair: A. Buonocore, University of Napoli Federico II
16:15 – 16:40 <i>Il lal</i>	poratorio di calcolo combinatorio e probabilità nell'ambito del Piano Lauree Scientifiche popocore. University of Napoli Federico II
16:40 – 17:05 <i>Il lab</i>	oratorio di statistica per l'Alternanza Scuola-Lavoro e per il Piano Lauree Scientifiche
А. L 17:05 – 17:30 <i>Аррг</i> М. М	occio soggettivista alla probabilità per la formazione degli insegnanti Aellone, University of Napoli Federico II
16:15 – 17:30 Pos	ter Session (Room E)
- G. Albano	Inferring time non-homogeneous Ornstein Uhlenbeck type stochastic process
- G. Ascione	On the exit time from open sets of some semi-Markov processes
- F. Buono	Generalized reversed aging intensity functions
- C. Calì	Distorted representations and comparison results for inactivity times of systems under double monitoring
- N. Cangiotti - D. Conte	Notes on the Ogawa integrability and a condition for convergence in the multidimensional case On theta-methods for stochastic Volterra integral equations
- B. Martinucci	On the elastic telegraph process
- A. Meoli	Finite velocity random motions with jumps governed by an alternating fractional Poisson process
- L. Paolillo	Residual varentropy of random lifetimes
- P. Paragoio	Birth-death and diffusion processes to model the logistic prowth analysis and comparisons
- E. Pirozzi	On a fractional Ornstein-Uhlenheck process with stochastic forcing and its applications
- P Siri	Minimization of the Kullback-I eibler divergence over a log-normal extensional arc
- S. Spina	Random denials in rumor spreading models
- F Torres-Ruiz	A diffusion process related to a Comperty curve with multiple inflection points
- F. Travaglino	Brownian motion governed by the telegraph process in stochastic modeling of the inflation and deflation episodes of Campi Flegrei
- J. van Oostrum	Wasserstein geometry on Gaussian densities with trace one covariance matrix
- A. Zass	Existence of Gibbians fields via entropy methods

19:30 – 22:30 Networking Event

Session S19F1	<u>Stochastic processes with interaction: random environment and particle system</u>	<u>(Room F)</u>
	Organizer/Chair: L. Andreis, Weierstrass Institute, Berlin	
9:00 - 9:25	Random walk in a non-integrable random scenery time	
	A. Bianchi, University of Padova	
9:25 - 9:50	Hydrodynamics and duality in dynamic random environment	
	F. Sau, Delft University of Technology	
9:50 - 10:15	Interacting particle systems from a duality point of view	
	C. Franceschini, IST - Universidade de Lisboa	
Session S19E1	<u>1</u> Stochastic games and their applications: N-player games	(Room E)
	Organizers/Chairs: L. Campi, London School of Economics	
	T. De Angelis, University of Leeds	
	G. Ferrari, Bielefeld University	
9:00 - 9:25	Market manipulation of a producer: a game-theoretic perspective	
	L. Campi, London School of Economics	
9:25 - 9:50	Dynkin games with incomplete and asymmetric information	
	T. De Angelis, University of Leeds	
9:50 - 10:15	Nonzero-sum submodular monotone-follower games: Existence and approxi	mation of Nash equilibria
	J. Dianetti, Bielefeld University	
Session S19D1	1 Probabilistic models in non-equilibrium statistical mechanics and applicati	(Room D)
	Organizer/Chair: G. Bet, University of Firenze	
9:00 - 9:25	Hitting time asymptotics for hard-core interactions on bipartite graphs	
	F. R. Nardi, University of Firenze	
9:25 - 9:50	Queue-based activation protocols for random-access wireless networks with b	ipartite interference graphs
	M. Sfragara, Leiden University	
9:50 - 10:15	Gaussian mean-field lattice gas	
	A. Troiani, University of Padova	
Session S19C1	<u>1 First-passage times and stochastic Langevin equations</u>	(Room C)
	Chair: A. Pascucci, University of Bologna	
9:00 - 9:25	Asymptotic Results for first-passage times of some exponential processes	
	C. Macci, University of Roma Tor Vergata	
9:25 - 9:50	Joint distribution of first-passage time and first-passage area of certain Lévy	processes
	M. Abundo, University of Roma Tor Vergata	
9:50 - 10:15	On stochastic Langevin and Fokker-Planck equations	
	A. Pesce, University of Bologna	

10:15 - 11:10	Plenary Talk	(Room F)
	A brief personal history of stochastic partial differential	equations
	Chair: E Flandoli Scuola Norr	male Superiore of Pisa
11:10 - 11:45	Coffee break	
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Session 519F2	<u>Phase transition and particle systems</u> Organizer/Chair: E Sau Delft University	(Koom F)
	organizer/ Chail. T. Sau, Dent University	of reemology
11:45 - 12:10	Coagulating particles and gelation phase transition: a la	arge-deviation approach
	L. Andreis, Weierstrass Institute, Berlin	
12:10 - 12:35	Emergence of periodic behavior in complex systems	
12.35 13.00	M. Formentin, University of Padova Sticky Brownian motion as scaling limit of the inclusio	n brocess
12.33 - 13.00	C Giardinà University of Modena and Reggio	e process Emilia
	Si Olardana, Olaverský or filodena and reego	
Session S19E2	2 Stochastic games and their applications: mean-field gam	(Room E)
	Organizers/Chairs: L. Campi, London Scho	ol of Economics
	T. De Angelis, Universit	ty of Leeds
	G. Ferrari, Bielefeld Uni	Wersity
11:45 - 12:10	On the convergence problem in mean field games: a two	state model without uniqueness
	A. Cecchin, Université Nice Sophia Antipolis	1
12:10 - 12:35	N-player games and mean-field games with smooth dep	endence on past absorptions
40.05 40.00	M. Ghio, Scuola Normale Superiore of Pisa	
12:35 - 13:00	Nonzero-sum stochastic games with impulse controls	
	W. Basel, University of Camornia, Berkeley	
Session S19D2	2 Stochastic models for complex systems: non-Markovian	a dynamics and limit theorems (Room D)
	Organizer/Chair: B. Toaldo, University of	Torino
11 15 10 10		1
11:45 - 12:10	Piecewise linear processes with Poisson-modulated switch N. Ratapoy. Universided del Rosario	bing times and market models
12:10 - 12:35	Delayed and rushed motions	
12.110 12.000	M. D'Ovidio, Sapienza University, Roma	
12:35 - 13:00	Limit theorems for the non-homogeneous fractional Poi	sson process
	E. Scalas, University of Sussex	
Session S10C	Optimal transport methods for empirical processes and	Bayasian stability (Boom ())
<u>36551011 317C2</u>	Organizers/Chairs: E. Mainini, University o	f Genova
	G. Conforti, École Poly	technique, Palaiseau
	E. Dolera, University of	Pavia
11.45 10.10		
11:45 - 12:10	Ergoau results for a mean field Schrodinger problem	
12:10 - 12:35	Optimal rates of mean Glivenko-Cantelli convergence	
	E. Dolera, University of Pavia	
12:35 - 13:00	Lipschitz continuity of probability kernels and applicat	ions to Bayesian inference
	E. Mainini, University of Genova	

13:00 - 14:30	Lunch	
Session S19F3	<u>A Interacting random walks in statistical mechanics</u> Organizer/Chair: N. Torri, Université Paris-Est Créteil, Créteil)
14:30 – 14:55	Localization for directed polymers in random (heavy-tail) environment Q. Berger, Sorbonne Université, Paris	
14:55 - 15:20	Sub-ballistic random walks among biased random conductances in one dimension: a story of wells and walls	
15:20 - 15:45	M. Salvi, Ecole Polytechnique, France <i>Essential enhancements' for activated random walks</i> L. Taggi, Weierstrass Institute, Berlin	
Session S19E	<u>Advances in stochastic control and optimal stopping with applications</u> (Room EChair:T. De Angelis, University of Leeds)
14:30 - 14:55	On a class of infinite-dimensional singular stochastic control problems S. Federico, University of Siena	
14:55 - 15:20	<i>Tail optimality and preferences consistency for stochastic optimal control problems</i> E. Vigna, University of Torino	
15:20 - 15:45	Analytical valuation of surrender options in life insurance contracts with minimum guaranteed G. Stabile, Sapienza University, Roma	
Session S19D	<u>3 Probability and non-local operators: anomalous diffusive dynamics</u> Organizer/Chair: F. Polito, University of Torino (Room D)
14:30 - 14:55	Probabilistic representations of the Barenblatt-type solutions, diffusion equations and fractional operators	
14:55 - 15:20	A. De Gregorio, Sapienza University, Roma Fractional derivatives of a function with respect to another function: applications to Dodson and relativistic diffusions	
15:20 - 15:45	R. Garra, Sapienza University, Roma Tempered fractional derivatives and related drifted Brownian motions F. Iafrate, Sapienza University, Roma	
Session S19C	<u>B Theoretical aspects of probability and applications</u> (Room C Chair: C. Sempi, University of Salento	;)
14:30 - 14:55	Logical operations among conditional events: theoretical aspects and applications G. Sanfilippo, University of Palermo	
14:55 - 15:20	Coherent upper conditional expectation defined by Hausdorff outer measure S. Doria. University of Chieti-Pescara	
15:20 - 15:45	How to interpret probability using a purely mathematical approach P. Rocchi, IBM and LUISS Guido Carli	

15:45 - 16:15	Coffee break	
Session S19F4	<u>Stochastic systems with interaction</u> Organizers/Chairs: C. Orrieri, University of Trento L. Scarpa, University of Vienna	(Room F)
16:15 - 16:40	McKean-Vlasov stochastic control and Hamilton-Jacobi-Bellman equations on Wasserstein A. Cosso, University of Bologna	n space
16:40 - 17:05	The convergence problem for finite state mean field games G. Pelino, University of Padoya	
17:05 - 17:30	A mean-field model with discontinuous coefficients and spatial interaction G. Zanco, LUISS Guido Carli	
Session S19E4	<u>Quantum probability and applications</u>	(Room E)
	Organizer: Y.G. Lu, University of Bari, Italy	
	Chair: E. Sasso, University of Genova, Italy	
16:15 - 16:40	Dephasing, decoherence and classical stochastic processes arising in quantum theory F. Fagnola, Polytechnic University of Milano	
16:40 - 17:05	Uniquely ergodic C*-dynamical systems for the noncommutative 2-torus and uniform conver Cesaro averages	rgence of
17:05 - 17:30	F. Fidaleo, University of Roma Tor Vergata The role of the atomic decoherence-free subalgebra in the study of Quantum Markov Semigr V. Umanità, University of Genova	roups
Session S19D4	<u>A Probability and non-local operators: non-Markovian and time-changed processes</u> Organizer/Chair: L. Beghin, Sapienza University, Roma	(Room D)
16:15 - 16:40	Subordinated fractional Poisson processes	
16.40 - 17.05	A. Maneshwari, Indian Institute of Management Indore From linear superposition of Langevin-driven Brownian particles to the fractional Brownia	n motion
10.10 17.00	G. Pagnini, Basque Center for Applied Mathematics	
17:05 - 17:30	On discrete-time semi-Markov processes	
	C. Ricciuti, Sapienza University, Roma	
Session S19C4	Enlargement of filtrations and financial applications	(Room C)
	Organizers/Chairs: B. D'Auria, Madrid University Carlos III	· · · ·
	C. Fontana, University of Padova	
16:15 - 16:40	Progressive enlargement of filtrations by the reference filtration of a general semi-martingale:	results and
	applications	
	B. Torti, University of Roma Tor Vergata	
16:40 - 17:05	Kisk measures and progressive enlargement of filtrations: a BSDE approach A. Calvia, University of Milano Bicocca	
17:05 - 17:30	Optimal liquidation time of a stock in presence of insider information	
	B. D'Auria, Madrid University Carlos III	
40.00 40.45		
18:00 - 18:45	Meeting "Towards the future"	(Koom F)

Thursday 20th June

Session S20F1	<u>Advances in stochastic analysis</u>	(Room F)
	Chair: E.Priola, University of Pavia	
9:00 - 9:25	On the two-dimensional KPZ and Stochastic Heat Equation	
	F. Caravenna, University of Milano Bicocca	
9:25 - 9:50	Quasi-tensor algebra and rough path theory	
	C. Bellingeri, Sorbonne Université, Paris	
9:50 - 10:15	On the Onsager-Machlup functional for Brownian motion on the Heisenberg group	
	M. Carfagnini, University of Connecticut, United States	
Session S20E1	<u>Approximate Bayesian Computation (ABC)</u>	(Room E)
	Organizer/Chair: M. Tamborrino, Johannes Kepler University, Linz	
9:00 - 9:25	Spectral density-based and measure-preserving ABC for partially observed diffusion proce	esses
	M. Tamborrino, Johannes Kepler University, Linz	
9:25 - 9:50	Approximate Bayesian conditional copula	
	C. Grazian, University of Chieti-Pescara	
9:50 - 10:15	Variance reduction for fast ABC using resampling	
	U. Picchini, Chalmers University of Technology and the University of Goth	enburg
Session S20D1	Stochastic processes with applications to statistical mechanics	(Room D)
	Organizer/Chair: M. Gianfelice, Calabria University	
9:00 - 9:25	Stochastic Ising model with temperature fast decreasing to zero	
	E. De Santis, Sapienza University, Roma	
9:25 - 9:50	Uniform bound of the entanglement for the ground state of the quantum Ising model with transverse magnetic field	large
	M. Gianfelice, Calabria University	
9:50 - 10:15	Ornstein-Zernike behaviour for the correlation functions of the ground state of the quantum with transverse magnetic field	m Ising model
	M. Campanino, University of Bologna	
Session S20C1	Stochastic methods in neuroscience	(Room C)
	Organizer/Chair: G. D'Onofrio, University of Torino	(
9:00 - 9:25	Examining whether brain types typical of males are typical of women, and vice versa	
	I. Meiliison. Tel Aviv University	
9:25 - 9:50	Spatio-temporal spike pattern detection in experimental barallel spike trains using SPA	DE
	A. Stella, Jülich Research Center, Germany	_
9:50 - 10:15	The first-passage time properties of diffusion neuronal models with multiplicative noise	
	G. D'Onofrio, University of Torino	

Thursday 20th June

10:15 - 11:10	Plenary Talk		(Room F)
	On regularized estimation for stochas	tic differential equations	
	Stefano M. Iacus, University of	of Milano	
	Chair: L. Sacero	lote. University of Torino	
11.10 - 11.45	Coffee break		
11.10 11.15	Gonee break		
Samion S20E	Stophastic differential aquations		$(\mathbf{P}_{oom} \mathbf{E})$
<u>Session 52012</u>	<u>Chrime</u> E Correction	I	(Room F)
	Chair: F. Carav	enna, University of Milano Dicocca	
11.45 12.10	10 On SDEs with additing noise driven by stable processes		
11.45 - 12.10	E Driele University of Davie	by stable processes	
10.10 10.25	E. Phola, University of Pavia	In fam the standing difference is a second stand	
12:10 - 12:35	S. Marzonotto, University of Potedam		
10.25 12.00	S. Mazzoneulo, University of Polsuani Weak well beseduess for some degenerate SDEs driven by stable brossesses		
12:35 - 13:00	W eak weu-poseaness for some degenerale SDEs arwen by stable processes		
	L. Marino, University of Evry V	al d'Essonne, Evry	
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Session S20E2	<u>2 Diffusions and their first passage time</u>	<u>es</u>	(Room E)
	Organizer/Chair: C. Zucca	, University of Torino	
11:45 - 12:10	Exact simulation of the first passage	time of diffusions	
	S. Herrmann, Institut de Mathé	matiques de Bourgogne, Dijon	
12:10 - 12:35	A stochastic algorithm based on the a	<i>upproximation of hitting times for the initial-boundary</i>	value
	problem for the heat equation		
	M. Deaconu, INRIA Nancy &	IECL, France	
12:35 - 13:00	Inverse first passage time for some tw	o-dimensional diffusion processes	
	C. Zucca, University of Torino		
Session S20D	<u>2 Fractional stochastic models</u>		(Room D)
	Organizer/Chair: E. Pirozz	zi, University of Napoli Federico II	
	-		
11:45 - 12:10	Fractional Pearson diffusions and con	ntinuous time random walks	
	N. Leonenko, Cardiff Universit	v, Wales	
12:10 - 12:35	The non local diffusion equation and	the aggregation of Brownian motion	
	B. Toaldo, University of Torino)	
12:35 - 13:00	SPDEs with fractional noise in space	e: continuity in law with respect to the Hurst index	
	L.M. Giordano, University of M	filano	
Session S20C	2. Stochastic fluid dynamics		(Room C)
	Organizer/Chair: M Zane	lla LUISS Guido Carli	(1100111 0)
11.45 - 12.10	Mean field limit of interacting filame	nts for 3D Fuler equations	
11.15 - 12.10	M Coopi Weierstrass Institute	Berlin	
12.10 12.35	The I/lason Eachbar Dlanch Manian	Stabas system as a scaling limit of particles in a fluid	,
12.10 - 12.33	M Leocata University of Lyon	scores system as a searing and of paralles in a flatta	
12.25 12.00	M. Leocata, University of Lyon	to for 2D stash actio Euler aquations	
12.35 - 13:00	M Mounoll: University - 6 M ⁻¹	s jor 21 sionnasin Emer equations	
	wi. wiaurein, University of Willaf	10	
40.00 44.00	T 1		
13:00 - 14:30	Lunch		
1 14.30 - 14.45	Llosing		