

LPTM - Preprints

Année	Auteur(s)	Titre article	Revue	Archivage	Thème
2025	GERBINO F., GIACHETTI SSAL P., DE LUCA A.	Measurement-Induced Phase Transition in State Estimation of Chaotic Systems and the Directed Polymer		(arXiv:2501.00547)	B/C
2025	HUBNER F., BIAGETTI L., DE NARDIS J., DOYON B.	Diffusive hydrodynamics of hard rods from microscopies		(arXiv:2503.07794)	A
2025	LOIQ H., CECILE G., GOPALAKRISHNAN S, LAMI G., DE NARDIS J.	Correlations, Spectra and Entanglement Transitions in Ensembles of Matrix Product States		(arXiv:2412.14261)	B/C
2025	MAGNI B., CHRISTOPOULOS A., DE LUCA A., TURKESHI X.	Anticoncentration in Clifford Circuits and Beyond: From Random Tensor Networks to Pseudo-Magic States		(arXiv:2502.20455)	B/C
2025	POPOLI P., MAITRA A., RAMASWAMY S.	Don't look back: Ordering and defect cloaking in non-reciprocal lattice XY models		(arXiv:2503.06480)	D
2025	SAULIERE A., MAGNI B., LAMI G., TURKESHI X., DE NARDIS J.	Universality in the Anticoncentration of Chaotic Quantum Circuits		(arXiv:2503.00119)	B/C
2024	BELL S., ACKERMANN J., MAITRA A., VOITURIEZ R.	Ordering, spontaneous flows and aging in active fluids depositing tracks	A paraître Phys. Rev. E	(arXiv:2409.05195)	D
2024	BERGOIN R., TORCINI A., DECO G., QUOY M., ZAMORA-LOPEZ G.	Emergence and long-term maintenance of modularity in plastic networks of spiking neurons		(arXiv:2405.18587)	D
2024	BIAGETTI L., ALBA V.	Bound-state confinement after trap-expansion dynamics in integrable systems		(arXiv:2402.17623)	B/C
2024	BIAGETTI L., LEBEK M., PANFIL M., DE NARDIS J.	Generalised BBGKY hierarchy for near-integrable dynamics		(arXiv:2408.00593)	B/C
2024	CABALLERO F., MAITRA A., NARDINI C.	Interface dynamics of wet active systems		(arXiv:2409.02288)	D
2024	CANTINI L., ZAHRA A.	Single impurity in the Totally Asymmetric Simple Exclusion Process		(arXiv:2411.08480)	B/C
2024	CHRISTOPOULOS A., CHAN A., DE LUCA A.	Universal distributions of overlaps from unitary dynamics in generic quantum many-body systems		(arXiv:2404.10057)	B/C
2024	COLLURA M., DE NARDIS J., ALBA V., LAMI G.	The quantum magic of fermionic Gaussian states		(arXiv:2412.05367)	A
2024	DIEP H.T.	Frustrated Spin Systems: History of the Emergence of a Modern Physics		(arXiv:2411.12826)	A
2024	GIACHETTI G., DEFENU N.	On the Conditions for a Quantum Violent Relaxation		(arXiv:2312.14768)	B/C
2024	GUTIERREZ DE LA CAL X., ALKHATEEB M., PONS M., MATZKIN A., SOKOLOVSKI D.	Quantum statistical effects in one-particle densities: scattering and pair production		(arXiv:2407.13905)	A
2024	HALIMEH J.C., KHODAEVA U.E., KOVRIZHIN D.L., MOESSNER R., KNOLLE J.	Disorder-Free Localization for Benchmarking Quantum Computers		(arXiv:2410.08268)	A
2024	HUBNER F., BIAGETTI L., DE NARDIS J., DOYON B.	Diffusive hydrodynamics from long-range correlations		(arXiv:2408.04502)	B/C
2024	KOVRIZHIN D., et al	Observation of disorder-free localization and efficient disorder averaging on a quantum processor		(arXiv:2410.06557)	A
2024	LECHEMINANT P., TANIZAKI Y., TOTSUKA K.	Infrared properties of two-dimensional SU(N)/H nonlinear σ models at nonzero θ angles		(arXiv:2412.17493)	A
2024	LOBATO-DAUZIER N., MAITRA A., ESTEVEZ-TORRES A., GALAS J.C.	Confinement determines transport of a reaction-diffusion active matter front		(arXiv:2401.06674)	D
2024	MAITRA A., et al	Aging and freezing of active nematic dynamics of cancer-associated fibroblasts by fibronectin matrix remodeling	(DOI: 10.1101/2023.11.22.568216)	(bioRxiv (2023)	D
2024	MATO G., POLITI A., TORCINI A.	Chaotic synchronization in adaptive networks of pulse-coupled oscillators		(arXiv:2407.08453)	D
2024	MEHAIGNERIE P., MACHU J., DURAN HERNANDEZ H., CREUTZER G., PAPOULAR D. J., RAIMOND J. M. SAYRIN C., BRUNE M.	Interacting Circular Rydberg Atoms Trapped in Optical Tweezers		(arXiv:2407.04109)	A
2024	MELLO A.F., SANTINI A., LAMI G., DE NARDIS J., COLLURA M.	Clifford Dressed Time-Dependent Variational Principle		(arXiv:2407.01692)	B/C
2024	PAVIGLIANTINI A., LAMI G., COLLURA M., SILVA A.	Estimating Non-Stabilizerness Dynamics Without Simulating It		(arXiv:2405.06054)	B/C

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2024	PERUANI F. et al	The 2024 Motile Active Matter Roadmap		(arXiv:2411.19783)	D
2024	ROUZAIRE Y., RAHMANI P., PAGONABARRAGA I., PERUANI F., LEVIS D.	Activity leads to topological phase transition in 2D populations of heterogeneous oscillators		(arXiv:2407.19603)	D
2024	SANTINI A., LUMIA L., COLLURA M., GIACHETTI G.	Semiclassical Quantum Trajectories in the Monitored Lipkin-Meshkov-Glick Model		(arXiv:2407.20314)	B/C
2024	SHARIPOV R., TIUTIAKINA A., GORSKY A., GRITSEV V., POLKOVNIKOV A.	Hilbert space geometry and quantum chaos		(arXiv:2411.11968)	B/C
2024	SHEN Y., O'BYRNE J., SCHOENIT A., MAITRA A., MEGE R.M., VOITURIEZ R., LADOUX B.	Scale-free flocking and giant fluctuations in epithelial active solids		(arXiv:2410.17705)	D
2024	TURKESHI X., CALABRESE P., DE LUCA A.	Quantum Mpemba Effect in Random Circuits		(arXiv:2405.14514)	B/C
2024	WANG Z., MCCARTY P., DANKOVA D., HONECKER A., WIETEK A.	Anomalous thermal broadening in the Shastry-Sutherland model and SrCu ₂ (BO ₃) ₂		(arXiv:2405.18475)	A
2024	WANG Z., MCCARTY P., DANKOVA D., HONECKER A., WIETEK A.	Spectroscopy and complex-time correlations using minimally entangled typical thermal states		(arXiv:2405.18484)	A
2023	DE LUCA A., GIACHETTI G.	Elusive phase transition in the replica limit of monitored systems		(arXiv:2306.12166)	A
2023	DE LUCA A., LIU C., NAHUM A., ZHOU T.	Universality classes for purification in nonunitary quantum processes		(arXiv:2312.17744)	B/C
2023	HUILLET T., MARTINEZ S.	Level numbers preserving transformations on excursions defined by random walks with state dependent jump laws		(arXiv:2307.14002)	B/C
2023	KOLE S. J., ALEXANDER G.P., MAITRA A., RAMASWAMY S.	Dynamics of Ordered Active Columns: Flows, Twists, and Waves		(arXiv:2306.03695)	D
2023	LAMI G., HAUG T., DE NARDIS J.	Quantum State Designs with Clifford Enhanced Matrix Product States	à paraître, Phys Rev X Quantum	(arXiv:2404.18751)	A
2023	PERUANI F., CHAUDHURI D.	Active stop and go motion: a strategy to improve spatial exploration?		(arXiv:2306.05647)	D
2022	DUPREY Q., MATZKIN A.	Comment on "Does the weak trace show the past of a quantum particle?"		(arXiv:2202.11574)	A
2022	KOIBUCHI H., KATO F., EL HOG S., DIGUET G., DUCHARNE B., UCHIMOTO T., DIEP H.T.	Effect of Geometric Confinement on the Stabilization of Skyrmions.		(arXiv:2208.03847)	A
2020	NARAYAN SAHOO S., HOME D., MATZKIN A., SINHA U.	Comment on "Observing the "quantum Cheshire cat" effect with noninvasive weak measurement".		(arXiv:2006.00792)	A
2020	TARPAU C., CEBEIRO J., NGUYEN M.K., ROLLET G., DUMAS L.	On the design of a CST system and its extension to a bi-imaging modality.		(arXiv:2007.02750)	B
2016	CANTINI L.	Inhomogenous Multispecies TASEP on a ring with spectral parameters.		(arXiv:1602.07921)	B