

LPTM - Preprints

Année	Auteur(s)	Titre article	Revue	Archivage	Thème
2025	<a href="#">GERBINO F.</a> , <a href="#">GIACHETTI SSAL P.</a> , <a href="#">DE LUCA A.</a>	Measurement-Induced Phase Transition in State Estimation of Chaotic Systems and the Directed Polymer		(arXiv:2501.00547)	B/C
2024	<a href="#">ALKHATEEB M.</a> , <a href="#">GUTIERREZ DE LA CAL X.</a> , <a href="#">PONS M.</a> , <a href="#">SOKOLOVSKI D.</a> , <a href="#">MATZKIN A.</a>	Relativistic Quantum Field Theory Approach to Wavepacket Tunneling: Lack of Superluminal Transmission		(arXiv:2407.07160)	A
2024	<a href="#">ALLAM J.</a> , <a href="#">MATZKINS A.</a>	Characterizing entangled state update in different reference frames with weak measurements		(arXiv:2410.20450)	A
2024	<a href="#">BELL S.</a> , <a href="#">ACKERMANN J.</a> , <a href="#">MAITRA A.</a> , <a href="#">VOITURIEZ R.</a>	Ordering, spontaneous flows and aging in active fluids depositing tracks		(arXiv:2409.05195)	D
2024	<a href="#">BERGOIN R.</a> , <a href="#">TORCINI A.</a> , <a href="#">DECO G.</a> , <a href="#">QUOY M.</a> , <a href="#">ZAMORA-LOPEZ G.</a>	Emergence and long-term maintenance of modularity in plastic networks of spiking neurons		(arXiv:2405.18587)	D
2024	<a href="#">BIAGETTI L.</a> , <a href="#">ALBA V.</a>	Bound-state confinement after trap-expansion dynamics in integrable systems		(arXiv:2402.17623)	B/C
2024	<a href="#">BIAGETTI L.</a> , <a href="#">LEBEK M.</a> , <a href="#">PANFIL M.</a> , <a href="#">DE NARDIS J.</a>	Generalised BBGKY hierarchy for near-integrable dynamics		(arXiv:2408.00593)	B/C
2024	<a href="#">CABALLERO F.</a> , <a href="#">MAITRA A.</a> , <a href="#">NARDINI C.</a>	Interface dynamics of wet active systems		(arXiv:2409.02288)	D
2024	<a href="#">CANTINI L.</a> , <a href="#">ZAHRA A.</a>	Single impurity in the Totally Asymmetric Simple Exclusion Process		(arXiv:2411.08480)	B/C
2024	<a href="#">CHRISTOPOULOS A.</a> , <a href="#">CHAN A.</a> , <a href="#">DE LUCA A.</a>	Universal distributions of overlaps from unitary dynamics in generic quantum many-body systems		(arXiv:2404.10057)	B/C
2024	<a href="#">CIVITCIOGLU B.</a> , <a href="#">ROMER R.</a> , <a href="#">HONECKER A.</a>	Phase determination with and without deep learning		(arXiv:2403.09786)	A
2024	<a href="#">COLLURA M.</a> , <a href="#">DE NARDIS J.</a> , <a href="#">ALBA V.</a> , <a href="#">LAMI G.</a>	The quantum magic of fermionic Gaussian states		(arXiv:2412.05367)	A
2024	<a href="#">DE ANGELIS D.</a> , <a href="#">DE NARDIS J.</a> , <a href="#">SCOPA S.</a>	Enhanced correlations due to ballistic transport		(arXiv:2409.17609)	A
2024	<a href="#">DIEP H.T.</a>	Frustrated Spin Systems: History of the Emergence of a Modern Physics		(arXiv:2411.12826)	A
2024	<a href="#">DJENABOU B.</a> , <a href="#">CIVITCIOGLU B.</a> , <a href="#">WEBB J. J.</a> , <a href="#">HONECKER A.</a> , <a href="#">ROMER R. A.</a>	Machine learning of phases and structures for model systems in physics		(arXiv:2409.03023)	A
2024	<a href="#">GIACHETTI G.</a> , <a href="#">DEFENU N.</a>	On the Conditions for a Quantum Violent Relaxation		(arXiv:2312.14768)	B/C
2024	<a href="#">GUTIERREZ DE LA CAL X.</a> , <a href="#">ALKHATEEB M.</a> , <a href="#">PONS M.</a> , <a href="#">MATZKIN A.</a> , <a href="#">SOKOLOVSKI D.</a>	Quantum statistical effects in one-particle densities: scattering and pair production		(arXiv:2407.13905)	A
2024	<a href="#">HALIMEH J.C.</a> , <a href="#">KHODAEVA U.E.</a> , <a href="#">KOVRIZHIN D.L.</a> , <a href="#">MOESSNER R.</a> , <a href="#">KNOLLE J.</a>	Disorder-Free Localization for Benchmarking Quantum Computers		(arXiv:2410.08268)	A
2024	<a href="#">HUBNER F.</a> , <a href="#">BIAGETTI L.</a> , <a href="#">DE NARDIS J.</a> , <a href="#">DOYON B.</a>	Diffusive hydrodynamics from long-range correlations		(arXiv:2408.04502)	B/C
2024	<a href="#">KOVRIZHIN D.</a> , et al	Observation of disorder-free localization and efficient disorder averaging on a quantum processor		(arXiv:2410.06557)	A
2024	<a href="#">LECHEMINANT P.</a> , <a href="#">TANIZAKI Y.</a> , <a href="#">TOTSUKA K.</a>	Infrared properties of two-dimensional SU(N)/H nonlinear $\sigma$ models at nonzero $\theta$ angles		(arXiv:2412.17493)	A
2024	<a href="#">LOBATO-DAUZIER N.</a> , <a href="#">MAITRA A.</a> , <a href="#">ESTEVEZ-TORRES A.</a> , <a href="#">GALAS J.C.</a>	Confinement determines transport of a reaction-diffusion active matter front		(arXiv:2401.06674)	D
2024	<a href="#">MAITRA A.</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	<a href="#">MATO G.</a> , <a href="#">POLITI A.</a> , <a href="#">TORCINI A.</a>	Chaotic synchronization in adaptive networks of pulse-coupled oscillators		(arXiv:2407.08453)	D
2024	<a href="#">MEHAIGNERIE P.</a> , <a href="#">MACHU J.</a> , <a href="#">DURAN HERNANDEZ H.</a> , <a href="#">CREUTZER G.</a> , <a href="#">PAPOULAR D. J.</a> , <a href="#">RAIMOND J. M.</a> , <a href="#">SAYRIN C.</a> , <a href="#">BRUNE M.</a>	Interacting Circular Rydberg Atoms Trapped in Optical Tweezers		(arXiv:2407.04109)	A
2024	<a href="#">MELLO A.F.</a> , <a href="#">SANTINI A.</a> , <a href="#">LAMI G.</a> , <a href="#">DE NARDIS J.</a> , <a href="#">COLLURA M.</a>	Clifford Dressed Time-Dependent Variational Principle		(arXiv:2407.01692)	B/C

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2024	<b>PAVIGLIANTINI A., LAMI G., COLLURA M., SILVA A.</b>	Estimating Non-Stabilizerness Dynamics Without Simulating It		(arXiv:2405.06054)	B/C
2024	<b>PERUANI F. et al</b>	The 2024 Motile Active Matter Roadmap		(arXiv:2411.19783)	D
2024	<b>ROUZAIRE Y., RAHMANI P., PAGONABARRAGA I., PERUANI F., LEVIS D.</b>	Activity leads to topological phase transition in 2D populations of heterogeneous oscillators		(arXiv:2407.19603)	D
2024	<b>SANTINI A., LUMIA L., COLLURA M., GIACHETTI G.</b>	Semiclassical Quantum Trajectories in the Monitored Lipkin-Meshkov-Glick Model		(arXiv:2407.20314)	B/C
2024	<b>SHARIPOV R., TIUTIAKINA A., GORSKY A., GRITSEV V., POLKOVNIKOV A.</b>	Hilbert space geometry and quantum chaos		(arXiv:2411.11968)	B/C
2024	<b>SHEN Y., O'BYRNE J, SCHOENIT A., MAITRA A., MEGE R.M., VOITURIEZ R., LADOUX B.</b>	Scale-free flocking and giant fluctuations in epithelial active solids		(arXiv:2410.17705)	D
2024	<b>TAKEUCHI K.A., DE NARDIS J., BUSANI O., FERRARI P.L., VASSEUR R.</b>	Partial yet definite emergence of the Kardar-Parisi-Zhang class in isotropic spin chains		(arXiv:2406.07150)	B/C
2024	<b>TURKESHI X., CALABRESE P., DE LUCA A.</b>	Quantum Mpemba Effect in Random Circuits		(arXiv:2405.14514)	B/C
2024	<b>URILYON A., SCOPA S., DEL VECCHIO G., DE NARDIS J.</b>	Quantum fluctuating theory for one-dimensional shock waves		(arXiv:2403.08875)	A
2024	<b>WANG Z., MCCARTY P., DANKOVA D., HONECKER A., WIETEK A.</b>	Anomalous thermal broadening in the Shastry-Sutherland model and SrCu <sub>2</sub> (BO <sub>3</sub> ) <sub>2</sub>		(arXiv:2405.18475)	A
2024	<b>WANG Z., MCCARTY P., DANKOVA D., HONECKER A., WIETEK A.</b>	Spectroscopy and complex-time correlations using minimally entangled typical thermal states		(arXiv:2405.18484)	A
2023	<b>DE LUCA A., GIACHETTI G.</b>	Elusive phase transition in the replica limit of monitored systems		(arXiv:2306.12166)	A
2023	<b>DE LUCA A., LIU C., NAHUM A., ZHOU T.</b>	Universality classes for purification in nonunitary quantum processes		(arXiv:2312.17744)	B/C
2023	<b>HUILLET T., MARTINEZ S.</b>	Level numbers preserving transformations on excursions defined by random walks with state dependent jump laws		(arXiv:2307.14002)	B/C
2023	<b>KOLE S. J., ALEXANDER G.P., MAITRA A., RAMASWAMY S.</b>	Dynamics of Ordered Active Columns: Flows, Twists, and Waves		(arXiv:2306.03695)	D
2023	<b>LAMI G., HAUG T., DE NARDIS J.</b>	Quantum State Designs with Clifford Enhanced Matrix Product States	à paraître, Phys Rev X Quantum	(arXiv:2404.18751)	A
2023	<b>PERUANI F., CHAUDHURI D.</b>	Active stop and go motion: a strategy to improve spatial exploration?		(arXiv:2306.05647)	D
2023	<b>WAGNER M., OLDZIEJEWSKI R., ROSE F., KODER V., KUHNENKAMP C., IMAMOGLU A., SCHMIDT R.</b>	Feshbach resonances of composite charge carrier states in atomically thin semiconductor heterostructures		(arXiv:2310.08729)	A
2022	<b>DUPREY Q., MATZKIN A.</b>	Comment on "Does the weak trace show the past of a quantum particle?"		(arXiv:2202.11574)	A
2022	<b>KOIBUCHI H., KATO F., EL HOG S., DIGUET G., DUCHARNE B., UCHIMOTO T., DIEP H.T.</b>	Effect of Geometric Confinement on the Stabilization of Skyrmions.		(arXiv:2208.03847)	A
2020	<b>NARAYAN SAHOO S., HOME D., MATZKIN A., SINHA U.</b>	Comment on "Observing the "quantum Cheshire cat" effect with noninvasive weak measurement".		(arXiv:2006.00792)	A
2020	<b>TARPAU C., CEBEIRO J., NGUYEN M.K., ROLLET G., DUMAS L.</b>	On the design of a CST system and its extension to a bi-imaging modality.		(arXiv:2007.02750)	B
2016	<b>CANTINI L.</b>	Inhomogenous Multispecies TASEP on a ring with spectral parameters.		(arXiv:1602.07921)	B