

LPTM - Preprints

Année	Auteur(s)	Titre article	Revue	Archivage	Thème
2026	ALSPAUGH D.J., FRATINO L., GHAZIKHANIAN N., SCHULLER I.K., ROZENBERG M.	Disorder-driven stochastic dynamics in Mott resistive-switching systems		(arXiv:2602.14173)	A
2026	CHARNAY E., ESCOUBET A., COPIE F., RANDOUX S., BONNEMAIN T., BASTIANELLO A., SURET P.	Experimental observation of ballistic correlations in integrable turbulence		(arXiv:2601.21085)	
2026	FUJI Y., CAPPONI S., DEVOS L., LECHÉMINANT P.	Phase transitions in coupled Ising chains and SO(N)-symmetric spin chains		(arXiv:2602.17029)	A
2026	HONECKER A., ZHITOMIRSKY M.E., WIETEK A., RICHTER J.	Field-induced states and thermodynamics of the frustrated Heisenberg antiferromagnet on a square lattice		(arXiv:2601.14380)	A
2026	KARLOVA K., RUFINO A., VERKHOLYAK T., CACI N., WESSEL S., STRECKA J., MILA F., HONECKER A.	Approaching Kasteleyn transition in frustrated quantum Heisenberg antiferromagnets		(arXiv:2601.14382)	A
2026	SAULIERE A., LAMI G., RIBEIRO P., DE LUCA A., DE NARDIS J.	Error-Correction Transitions in Finite-Depth Quantum Channels		(arXiv:2603.20369)	B/C
2026	SYGA S., RAY C.G., NAVASEDENO J.M., PERUANI F., DEUTSCH A.	Minority-Triggered Reorientations Yield Macroscopic Cascades and Enhanced Responsiveness in Swarms		(arXiv:2603.07254)	D
2026	URTYLON A., VASSEUR R., GOPALAKRISHNAN S., DE NARDIS J.	Anomalous Diffusion and Superdiffusion in Integrable Spin Chains via a Hard-Rod Gas Mapping		(arXiv:2603.02171)	B/C
2025	AVAN J., FRAPPAT L., RAGOUCY E.	Quadratic Poisson brackets for the Camassa-Holm peakons		(arXiv:2512.11066)	B/C
2025	BAILLOU R., PEDROSA M., GUIGUE Q., MEINIER S., DARNIGE T., PERUANI F., CLEMENT E.	Confinement controls bacterial spreading at all scales		(arXiv:2503.11364)	D
2025	BALLESTEROS FERRAZ L.	Dynamical discontinuities in repeated weak measurements revealed by complex weak values		(arXiv:2511.03352)	A
2025	BALLESTEROS FERRAZ L., ELOUARD C.	Weak continuous measurements require more work than strong ones		(arXiv:2502.09732)	A
2025	BALLESTEROS FERRAZ L., MATZKIN A., KUMAR PAN A.	Temperature-induced measurement sensitivity enhancement via imaginary weak values		(arXiv:2509.04048)	A
2025	BRIOZZO G., SIBONA G.J., PERUANI F.	Resource and population dynamics in an agent-environment interaction model		(arXiv:2512.08762)	D
2025	COSTA J., RIBEIRO P., DE LUCA A.	Emergence of universality in transport of noisy free fermions		(arXiv:2504.00188)	B/C
2025	CRAPS B., EVNIN O., KOVRIZHIN D., PASCUZZI G.	Unified theory of local integrals of motion		(arXiv:2512.09595)	A
2025	DAEM F., DURT T., MATKIN A.	Trajectories in coupled waveguides: an application to a recent experiment and Hiley's lessons on the falsification of the Bohmian model		(arXiv:2510.21504)	A
2025	DIEP H.T., NGO V.T.	Is the hyperscaling relation violated below the upper critical dimension in some particular cases?		(arXiv:2507.02159)	A
2025	DOWLING N., DE NARDIS J., HEINRICH M., TURKESHI X., PAPPALARDI S.	Free Independence and Unitary Design from Random Matrix Product Unitaries		(arXiv:2508.00051)	B/C
2025	DUTTA S., SAHA A.	Stochastic Heat Engine Using a Single Brownian Ellipsoid		(arXiv:2505.17313)	D
2025	GHAZIKHANIAN N., ALSPAUGH D.J., SALEV P., FRATINO L., ROZENBERG M.J., SCHULLER I.K.	Enhanced stochasticity in irradiated vanadium oxide oscillators		(arXiv:2407.13905)	A
2025	KANT R., MAITRA A., SOOD A.K., RAMASWAMY S.	Edge states, pairing, and sorting of motile chiral particles		(arXiv:2509.00729)	D
2025	KETHEPALLI J., URTYLON A., SADHU T., DE NARDIS J.	Ballistic macroscopic fluctuation theory via mapping to point particles		(arXiv:2505.18093)	D
2025	LA MONTAGNA G.M., BUREKOVIC S., MAITRA A., NARDINI C.	Eppur si muove: Shape of topological defects -- and consequent motion -- in active nematics		(arXiv:2504.19665)	D

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2025	<a href="#">LAMI G., DE LUCA A., TURKESHI X., DE NARDIS J.</a>	Quantum State Design and Emergent Confinement Mechanism in Measured Tensor Network States		(arXiv:2504.16995)	B/C
2025	<a href="#">LOJO H., LAMI G., LEONE L., MCGINLEY M., TURKESHI X., DE NARDIS J.</a>	Quantum State Designs via Magic Teleportation		(arXiv:2510.13950)	B/C
2025	<a href="#">LUCAS M., RALCO A., HONECKER A., TRAMBLY DE LAISSARDIERE G.</a>	Tetrahedral Core in a Sea of Competing Magnetic Phases in Graphene		(arXiv:2511.22714)	A
2025	<a href="#">MAITRA A., JENTSCH P., CHEN L., FAN LEE C., TONER J., RAMASWAMY S.</a>	The inconvenient truth about flocks		(arXiv:2503.17064)	D
2025	<a href="#">PAPOULAR D.</a>	Measuring the dynamics of an XXZ quantum simulator and controlling collapse through symmetries		(arXiv:2508.02468)	A
2025	<a href="#">ROSE F., RANCON A., BALOG I.</a>	Constraint effective action and critical correlation functions at fixed magnetization		(arXiv:2509.05195)	A
2025	<a href="#">SOKOLOVSKI D., MATZKIN A.</a>	Wave packets, "negative times" and the elephant in the room		(arXiv:2507.19105)	A
2025	<a href="#">TIRRITO E., LUMIA L., PAVIGLIANITI A., LAMI G., SILVA A., TURKESHI X., COLLURA M.</a>	Magic phase transitions in monitored gaussian fermions		(arXiv:2507.07179 )	B/C
2025	<a href="#">TIXIDRE F., MONGILLO G., TORCINI A.</a>	Is the cortical dynamics ergodic? A numerical study in partially symmetric networks of spiking neurons		(arXiv:2508.04354)	D
2025	<a href="#">ZUMER B., DAEM F., MATZKIN A.</a>	Revivals and quantum carpets for the relativistic Schrödinger equation		(arXiv:2511.05200)	A
2024	<a href="#">BIAGETTI L., LEBEK M., PANFIL M., DE NARDIS J.</a>	Generalised BBGKY hierarchy for near-integrable dynamics		(arXiv:2408.00593)	B/C
2024	<a href="#">COLLURA M., DE NARDIS J., ALBA V., LAMI G.</a>	The quantum magic of fermionic Gaussian states		(arXiv:2412.05367)	A
2024	<a href="#">GUTIERREZ DE LA CAL X., ALKHATEEB M., PONS M., MATZKIN A., SOKOLOVSKI D.</a>	Quantum statistical effects in one-particle densities: scattering and pair production		(arXiv:2407.13905)	A
2024	<a href="#">HALIMEH J.C., KHODAEVA U.E., KOVRIZHIN D.L., MOESSNER R., KNOLLE J.</a>	Disorder-Free Localization for Benchmarking Quantum Computers		(arXiv:2410.08268)	A
2024	<a href="#">KOVRIZHIN D., et al</a>	Observation of disorder-free localization and efficient disorder averaging on a quantum processor		(arXiv:2410.06557)	A
2024	<a href="#">MAITRA A., et al</a>	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., POLITI A., TORCINI A.</a>	Chaotic synchronization in adaptive networks of pulse-coupled oscillators		(arXiv:2407.08453)	D
2024	<a href="#">SHARIPOV R., TIUTIAKINA A., GORSKY A., GRITSEV V., POLKOVNIKOV A.</a>	Hilbert space geometry and quantum chaos		(arXiv:2411.11968)	B/C
2023	<a href="#">DE LUCA A., GIACHETTI G.</a>	Elusive phase transition in the replica limit of monitored systems		(arXiv:2306.12166)	A
2022	<a href="#">DUPREY Q., MATZKIN A.</a>	Comment on "Does the weak trace show the past of a quantum particle?"		(arXiv:2202.11574)	A
2022	<a href="#">KOIBUCHI H., KATO F., EL HOG S., DIGUET G., DUCHARNE B., UCHIMOTO T., DIEP H.T.</a>	Effect of Geometric Confinement on the Stabilization of Skyrmions.		(arXiv:2208.03847)	A
2020	<a href="#">NARAYAN SAHOO S., HOME D., MATZKIN A., SINHA U.</a>	Comment on "Observing the "quantum Cheshire cat" effect with noninvasive weak measurement".		(arXiv:2006.00792)	A
2020	<a href="#">TARPAU C., CEBEIRO J., NGUYEN M.K., ROLLET G., DUMAS L.</a>	On the design of a CST system and its extension to a bi-imaging modality.		(arXiv:2007.02750)	B
2016	<a href="#">CANTINI L.</a>	Inhomogenous Multispecies TASEP on a ring with spectral parameters.		(arXiv:1602.07921)	B