

Année	Auteur(s)	Titre article	Revue	Archivage	Thème
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., ELOUARD C.	Weak continuous measurements require more work than strong ones		(arXiv:2502.09732)	A
2025	BALLU M., YAO Z., MIRMAND B., PAPOULARD D., PERRIN H., PERRIN A.	Microwave spectroscopy of ultracold sodium least-bound molecular states		(arXiv:2503.20330)	A
2025	BRIGATTI E., PERUANI F.	Metamorphosis of collective patterns modulated by non-reciprocal interactions		(arXiv:2505.02672)	D
2025	COSTA J., RIBEIRO P., DE LUCA A.	Emergence of universality in transport of noisy free fermions		(arXiv:2504.00188)	B/C
2025	DAEM F., MATZKIN A.	Effects of superradiance on relativistic Foldy-Wouthuysen densities		(arXiv:2503.21404)	A
2025	DUTTA S., SAHA A.	Stochastic Heat Engine Using a Single Brownian Ellipsoid		(arXiv:2505.17313)	D
2025	GERBINO F., GIACCHETTI 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 microscopics		(arXiv:2503.07794)	A
2025	JAMAN A., FRATINO L., AHMADI M., ROCCO R., KOOI B.J., ROZENBERG M., BANERJEE T.	Electrically induced negative differential resistance states mediated by oxygen octahedra coupling in manganites for neuronaldynamics		(arXiv:2502.00137)	A
2025	KETHEPALLI J., URILYON 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
2025	LAMI G., DE LUCA A., TURKESHI X., DE NARDIS J.	Quantum State Design and Emergent Confinement Mechanism in Measured Tensor Network States		(arXiv:2504.16995)	B/C
2025	LOJO 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., DELUCA A., TURKESHI X.	Anticoncentration in Clifford Circuits and Beyond: From Random Tensor Networks to Pseudo-Magic States		(arXiv:2502.20455)	B/C
2025	MAITRA A., JENTSCH P., CHEN L., FAN LEE C., TONER J., RAMASWAMY S.	The inconvenient truth about flocks		(arXiv:2503.17064)	D
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
2025	TRUONG T.T.	Inversion of the fixed radius Spherical Mean Radon Transform of F. John in R 2,3			B/C
2025	URILYON A., BIAGETTI L., KETHEPALLI J., DE NARDIS J.	Simulating generalised fluids via interacting wave packets evolution		(arXiv:2505.21000)	A
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., LEBEK M., PANFIL M., DE NARDIS J.	Generalised BBGKY hierarchy for near-integrable dynamics		(arXiv:2408.00593)	B/C
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	CHRISTOPOULOS A., SANTINI A., GIACCHETTI G.	Cahier de l'Institut Pascal: Noisy Quantum Dynamics and Measurement-Induced Phase Transitions	To appear on Cahier de l'institut Pascal	(arXiv:2409.06310)	B/C
2024	COLLURA M., DE NARDIS J., ALBA V., LAMI G.	The quantum magic of fermionic Gaussian states		(arXiv:2412.05367)	A
2024	GIACCHETTI G., DEFENU N.	On the Conditions for a Quantum Violent Relaxation	To appear, Phys Rev B	(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	<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="#">LECHEMINANT P., TANIZAKI Y., 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="#">MAITRA A., et al</a>	Aging and freezing of active nematic dynamics of cancer-associated fibroblasts by fibronectin matrix remodeling	(DOI: 10.1101/2023.11.22.568 216 )	(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="#">PAVIGLIANTINI A., LAMI G., COLLURA M., SILVA A.</a>	Estimating Non-Stabilizerness Dynamics Without Simulating It		(arXiv:2405.06054)	B/C
2024	<a href="#">PERUANI F. et al</a>	The 2024 Motile Active Matter Roadmap		(arXiv:2411.19783)	D
2024	<a href="#">ROUZAIRE Y., BAHMANI P., PAGONABARRAGA I., PERUANI F., LEVIS D.</a>	Activity leads to topological phase transition in 2D populations of heterogeneous oscillators		(arXiv:2407.19603)	D
2024	<a href="#">SHARIPOV R., IIUTIAKINA A., GORSKY A., GRITSEV V., POLKOVNIKOV A.</a>	Hilbert space geometry and quantum chaos		(arXiv:2411.11968)	B/C
2024	<a href="#">TURKESHI X., CALABRESE P., DE LUCA A.</a>	Quantum Mpemba Effect in Random Circuits		(arXiv:2405.14514)	B/C
2024	<a href="#">WANG Z., MCCARTY P., DANKOVA D., HONECKER A., WIETEK A.</a>	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	<a href="#">WANG Z., MCCARTY P., DANKOVA D., HONECKER A., WIETEK A.</a>	Spectroscopy and complex-time correlations using minimally entangled typical thermal states		(arXiv:2405.18484)	A
2023	<a href="#">DE LUCA A., GIACHETTI G.</a>	Elusive phase transition in the replica limit of monitored systems		(arXiv:2306.12166)	A
2023	<a href="#">DE LUCA A., LIU C., NAHUM A., ZHOU T.</a>	Universality classes for purification in nonunitary quantum processes		(arXiv:2312.17744)	B/C
2023	<a href="#">KOLE S. J., ALEXANDER G.P., MATTRA A., RAMASWAMY S.</a>	Dynamics of Ordered Active Columns: Flows, Twists, and Waves		(arXiv:2306.03695)	D
2023	<a href="#">PERUANI F., CHAUDHURI D.</a>	Active stop and go motion: a strategy to improve spatial exploration?		(arXiv:2306.05647)	D
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