

LPTM - Preprints

Année	Auteur(s)	Titre article	Revue	Archivage	Thème
2024	ALKHATEEB M., MATZKIN A.	Evolution of strictly localized states in non-interacting quantum field theories with background fields	à paraître Phys. Rev. A	(arXiv:2402.11132)	A
2024	BIAGETTI L., ALBA V.	Bound-state confinement after trap-expansion dynamics in integrable systems		(arXiv:2402.17623)	B/C
2024	CECILE G., LOIO H., DE NARDIS J.	Measurement-induced phase transitions by matrix product states scaling		(arXiv:2402.13160)	A
2024	CHAN A., DE LUCA A.	Projected state ensemble of a generic model of many-body quantum chaos		(arXiv:2402.16939)	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	CIVITICIOGLU B., ROMER R., HONECKER A.	Phase determination with and without deep learning		(arXiv:2403.09786)	A
2024	DAEM F., MATZKIN A.	Tunneling dynamics of the relativistic Schrödinger/Salpeter equation		(arXiv:2406.16644)	A
2024	DOUCOT B., KOVRIZHIN D., MOESSNER R.	Meandering conduction channels and the tunable nature of quantized charge transport		(arXiv:2406.08548)	A
2024	FRATINO L., et al	Laser-induced quenching of metastability at the Mott-insulator to metal transition		(arXiv:2401.11889)	A
2024	GLIDIC P., PETKOVIC I., PIQUARD C., AASSIME A., CAVANNA A., JIN Y., GENNSER U., MORA C., KOVRIZHIN D., ANTHORE A., PIERRE F.	Signature of anyonic statistics in the integer quantum Hall regime		(arXiv:2401.06069)	A
2024	KHABTHANI J.J., CHIKA K., JEMAI G., MAYOU D., TRAMBLAY DE LAISSARDIERE G.	Electronic structure and conductivity in functionalized multi-layer Black Phosphorene		(arXiv:2403.01936)	A
2024	KHALILIAN H., PERUANI F., SARABADANI J.	Structural dynamics and optimal transport of an active polymer		(arXiv:2401.01719)	D
2024	LECHEMINANT P., TOTSUKA K.	Lieb-Schultz-Mattis constraints for the insulating phases of the one-dimensional SU(N) Kondo lattice model		(arXiv:2404.11030)	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	MELLO A.F., SANTINI A., LAMI G., DE NARDIS J., COLLURA M.	Clifford Dressed Time-Dependent Variational Principle		(arXiv:2407.01692)	B/C
2024	PAPOULARD D.J., ZUMER B.	Quantum signatures of the mixed classical phase space for three interacting particles in a circular trap		(arXiv:2404.18265)	A
2024	PAVIGLIANTINI A., LAMI G., COLLURA M., SILVA A.	Estimating Non-Stabilizerness Dynamics Without Simulating It		(arXiv:2405.06054)	B/C
2024	POZSGAY B., SHARIPOV R., TIUTIAKINA A., VONA I.	Adiabatic gauge potential and integrability breaking with free fermions		(arXiv:2402.12979)	B/C
2024	SAAVEDRA R., PERUANI F.	Self-trapping of active particles induced by non-reciprocal interactions in disordered media		(arXiv:2404.10932)	D
2024	SIVY D., KARLOVA K., STRECKA J.	Quantum Magnetism in Fe ₂ Cu ₂ Polymeric Branched Chains: Insights from Exactly Solved Ising-Heisenberg Model		(arXiv:2406.02151)	A
2024	STRECKA J., KARLOVA K.,	Pseudo-transition between antiferromagnetic and charge orders in a minimal spin-pseudospin model of one-dimensional cuprates		(arXiv:2406.02104)	A
2024	TAKEUCHI K.A., DE NARDIS J., BUSANI O., FERRARI P.L., VASSEUR R.	Partial yet definite emergence of the Kardar-Parisi-Zhang class in isotropic spin chains		(arXiv:2406.07150)	B/C
2024	TURKESHI X., CALABRESE P., DE LUCA A.	Quantum Mpemba Effect in Random Circuits		(arXiv:2405.14514)	B/C
2024	URTILYON A., SCOPA S., DEL VECCHIO G., DE NARDIS J.	Quantum fluctuating theory for one-dimensional shock waves		(arXiv:2403.08875)	A
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

LPTM - Preprints

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	ALLAM J., MATZKINS A.	Making sense of relativistic Wigner friend scenarios		(arXiv:2310.04167)	A
2023	COURSON J., MANOS T., QUOY M.	Networks' modulation: How different structural network properties affect the global synchronization of coupled Kuramoto oscillators	to appear in the Springer Proceedings volume of the 28th Summer School Conference on Dynamical Systems and Complexity, 18-26 July 2023, Chania, Greece	(arXiv:2303.03099)	D
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	DIGUET G., DUCHARNE B., EL HOG S., KATO F., KOIBUCHI H., UCHIMOTO T., DIEP T.H.	Finsler Geometry Modeling and Monte Carlo Study on Geometrically Confined skyrmions in Nanodots		(arXiv:2308.16199)	A
2023	GASCUEL H.M., RAHMANI P., BON R., PERUANI F.	A generic coupling between internal states and activity leads to activation fronts and criticality in active systems		(arXiv:2311.06208)	D
2023	GOLDOBIN D., DI VOLO M, TORCINI A.	Discrete synaptic events induce global oscillations in balanced neural networks		(arXiv:2311.06159)	D
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	HUILLET Th.	On the balance between Emigration and Immigration as Random Walks on the non-negative integers		(arXiv:2304.08060)	B/C
2023	JEDRZEJEWSKI A., HERNANDEZ L.	Symmetric conformity functions make decision-making processes independent of the distribution of learning strategies	accepted in Phys Rev Research	(arXiv:2309.10628)	D
2023	KOLE S. J., ALEXANDER G.P., MATTRA 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		(arXiv:2404.18751)	A
2023	PERUANI F., CHAUDHURI D.	Active stop and go motion: a strategy to improve spatial exploration?		(arXiv:2306.05647)	D
2023	POLITI A., TORCINI A.	A robust balancing mechanism for spiking neural networks		(bioRxiv:2023.08.28.555064)(DOI: 10.1101/2023.08.28.555064)	D
2023	STRECKA J, KARLOVA K, VERKHOLYAK T, CACI N, WESSEL S., HONECKER A.	Magnetic analogue of liquid-gas phase transition of water: case study of a spin-1/2 Ising-Heisenberg model on a diamond-decorated square lattice		(arXiv:2308.12410)	A
2023	WAGNER M., OLDZIEJEWSKI R., ROSE F., KODER V., KUHLENKAMP C., IMAMOGLU A., SCHMIDT R.	Feshbach resonances of composite charge carrier states in atomically thin semiconductor heterostructures		(arXiv:2310.08729)	A
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