Victor Luiz Quito

Post-doctoral Researcher				
Affiliation: Depa	artment of Physics and Astronomy, Iowa State Univer Ames, IA, USA	rsity and Ames National Laboratory		
vquito@iastate.edu victorluizquito@gmail.com_skype ID: v_quito Google Scholar: Victor Quito				
CURRENT EMPLOYER	Postdoctoral researcher, Affiliation: Department of Physics and Astronomy, Laboratory Ames, Iowa, USA Supervisor: Peter P. Orth	August, 2021 - Present Iowa State University, and Ames		
PAST EMPLOYERS	Postdoctoral researcher, Affiliation: Department of Physics and Astronomy Iowa, USA Supervisor: Rebecca Flint	September, 2018 - August, 2021 y, Iowa State University, Ames,		
	Postdoctoral researcher, National High Magnetic Field Laboratory (MagLab Theory group postdoctoral scholar	September, 2016 - August, 2018), Tallahassee, Florida, USA		
EDUCATION	Ph.D. in Physics, Campinas State University, Brazil Title: "Studies of Strongly Disordered Quantum Sys Advisor: Eduardo Miranda	March, 2010 - February, 2016 stems"		
	Visiting Student, California Institute of Technology Supervisor: Gil Refael	February, 2013 - January, 2014		
	B.S. in Physics, Campinas State University, Brazil	March, 2006 - February, 2010		
PUBLICATIONS	V. L. Quito, R. Flint Title: Floquet engineering correlated materials with unpolarized light Phys. Rev. Lett. 126 , 177201 (2021)			
	M. S. Frank, T-H Lee, G. Bhattacharyya, P. K. H brosavljević, O. Christiansen, N. Lanatà Title: Quantum embedding description of the Ander Gutzwiller approximation Phys. Rev. B (Letter) 104 , L081103 (2021)	I. Tsang, V. L. Quito , V. Do- rson lattice model with the ghost		
	V. L. Quito, R. Flint Title: Polarization as a tuning parameter for Floque honeycomb, square, and triangular Mott insulators Phys. Rev. B 103, 134435 (2021)	et engineering: Magnetism in the		

V. L. Quito, Pedro L. S. Lopes, José Hoyos, E. Miranda
Title: Emergent SU(N) symmetry in disordered SO(N) spin chains
Topical issue: Recent Advances in the Theory of Disordered Systems Eur. Phys. J. B 93, 17 (2020)

V. L. Quito, Pedro L. S. Lopes, José Hoyos, E. Miranda Title: Highly-symmetric random one-dimensional spin models Phys. Rev. B **100**, 224407 (2019)

Y.-C. Chiu, K. -W. Chen, R. Schönemann, V. L. Quito, S. Sur, Q. Zhou, D. Graf,
E. Kampert, T. Förster, K. Yang, G. T. McCandless, J. Y. Chan, R. E. Baumbach,
M. D. Johannes, L. Balicas
Title: Origin of the butterfly magnetoresistance in a Dirac nodal-line system
Phys. Rev. B 100, 125112 (2019) (Editor's suggestion)

P. L. S. Lopes, V. L. Quito, B. Han, J. C. Y. Teo Title: A non-Abelian twist to integer quantum Hall states Phys. Rev. B 100, 085116 (2019)

R. Schönemann, Y.-C. Chiu, W. Zheng, V. L. Quito, S. Sur, G. T. McCandless, J. Y. Chan, L. Balicas
Bulk Fermi surface of the Weyl type-II semimetallic candidate NbIrTe4
Phys. Rev. B 99, 195128 (2019)

P. Titum, V. L. Quito, S. Syzranov Title: Energy-level statistics of neutral excitations in a disordered electronic system Phys. Rev. B 98, 014201 (2018)

V. L. Quito, P. Titum, David Pekker, Gil Refael Title: Anderson transition in one dimension using Wegner Flow Equations Phys. Rev. B 94, 104202 (2016)

V. L. Quito, José A. Hoyos, E. Miranda Title: Random SU(2)-symmetric spin chains Phys. Rev. B 94, 064405 (2016)

V. L. Quito, José A. Hoyos, E. Miranda Title: Emergent SU(3) symmetry in random spin-1 chains Phys. Rev. Lett. **115**, 167201 (2015)

SUBMITTED

MANUSCRIPTS V. L. Quito, R. Flint MANUSCRIPTS Title: Floquet engineering multi-channel Kondo physics arXiv:2111.07994 To be submitted to Phys. Rev. X

> Chengshu Li, V. L. Quito, Eduardo Miranda, Rodrigo Pereira, Ian Affleck, Pedro L. S. Lopes Title: The case of SU(3) criticality in spin-2 chains arXiv:2108.10329 Submitted to Phys. Rev. B

M. Kornjača, V. L. Quito, R. Flint

	Title: Mobile Majorana zero-modes in two-channel Kondo insulators arXiv:2104.11173 Submitted to Science Advances		
ACADEMIC HONORS	2020 Postdoctoral Research Excellence Award Iowa State University	2020	
	Brazil-U.S. Physics Ph.D. Student and Postdoc Visitation Program Collaborative trip to Campinas State University	June 2019	
	FAPESP PhD scholarship,March, 2010 - 2Prestigious Brazilian funding agency	P PhD scholarship, March, 2010 - February, 2016 ious Brazilian funding agency	
	Highest GPA score of the 2010 physics graduates, Campinas State University	2010	
	FAPESP Undergraduate Research scholarship, Prestigious Brazilian funding agency	2009-2010	
REFEREE	Physical Review Letters, Physical Review B, Physical Review Research, Brazilian Journal of Physics,	2019- 2020- 2020- 2016-	
OUTREACH	Facilitator: "Go Further Conference: Quantum TicTaqToe"AprJudge of the "2021 State Science + Technology Fair of Iowa"Judge of the "5th Annual 3-Minute Thesis Competition"Facilitator: "Go Further Conference: Quantum TicTaqToe"Presenter at the "MagLab Open House"	and Oct, 2021 Mar, 2021 Jan, 2021 Oct, 2020 Feb, 2018	
OTHER ACTIVITIES	Condensed Matter Physics Journal Club, Co-organizor, with Professor Peter Orth	2020-	
TALKS AND CONFERENCES	International Conference on Strongly Correlated Electron Systems (SCES)202S Invited Talk: Floquet engineering multi-channel Kondo lattices (video)202		
ATTENDED	ICTP-SAIFR Blackboard talk Emergent symmetries in one-dimensional strongly disordered intera (video)	2021 acting systems	
	ICTP-SAIFR Colloquium Floquet-tuning strongly correlated systems (video)	2021	
	APS March Meeting <i>Talk</i> : Floquet engineering multi-channel Kondo lattices	2021	
	Aspen Center for Physics Summer Program: Quantum Spin Liquids	Summer 2019	
	APS March Meeting <i>Talk</i> : Using light to tune magnetism on the honeycomb lattice	2019	

Gordon Research Conference: Correlated Electron Systems <i>Poster</i> : Role of screening and charge transfer for a Mott transition in lattice	2018 a Hydrogen
Gordon Research Seminar: Correlated Electron Systems	2018
APS March Meeting <i>Talk</i> : Role of screening and charge transfer for a Mott transition in a Hyd	2018 lrogen lattice
Cornell Summer School: Emergent Phenomena in Quantum Materials <i>Poster</i> : Role of screening and charge transfer for a Mott transition in lattice	2018 a Hydrogen
MagLab Theory Winter School	2018
Aspen Center for Physics Summer Program: Quantum Criticality in Metallic Systems	Summer 2017
APS March Meeting <i>Talk</i> : Emergent symmetries in disordered quantum spin systems	2017
MagLab Theory Winter School	2017
APS March Meeting Talk: Emergent $SU(3)$ symmetry in random spin-1 chains	2015
APS March Meeting <i>Talk</i> : Flow equation approach to one-body and many-body localization	2014
Theory Winter School: Topological Phases of Condensed Matter <i>Poster</i> : Flow equation approach to disordered systems	2014
Les Houches Summer School: Topological Aspects of Condensed Matter Physics <i>Poster</i> : Emergent SU(3) symmetry in random spin-1 chains	2014
XVII Training Course in the Physics of Strongly Correlated Systems <i>Talk</i> : Bilinear and biquadratic random spin-1 chains	2012
School for advanced studies: Physics of Graphene Federal University of Minas Gerais	2012
XI Young Researchers Meeting, Campinas State University	2011
Brazilian School on Statistical Mechanics <i>Poster</i> : Bilinear and Biquadratic Random Spin-S Chains	2011
São Paulo School of Advanced Science New Trends in Quantum Matter with Cold Atoms and Molecules	2011:
University of São Paulo Summer School	2009
Phase Transitions and Critical Phenomena Five invited le Mathematical Methods for Physicists I and II, undergraduate	ectures, 2018 2015

TEACHING ASSISTANT EXPERIENCE

Physics III (Introduction to electrodynamics), undergraduate	2014
Quantum Mechanics II, graduate level	2012
Electrodynamics, graduate level	2011 and 2014
Statistical Mechanics, graduate level	Two semesters, 2011

COMPUTER
SKILLSLanguages & Software: Fortran, Matlab, Mathematica, Python, and C
Operating Systems: Unix, Linux, and Windows.