

Student poster presentations, Thursday evening sessions

July 8th

Bela Bauer, ETH Zurich,

Infinite projected entangled-pair states in the presence of a global Abelian symmetry

Jean-Sebastien Bernier, Ecole Polytechnique

Getting fermions colder and measuring how cold

Pedro Bertussi, Rio de Janeiro

Coexistence of ferromagnetism and superconductivity:

A DMRG study of an extended Periodic Anderson Model with attractive interaction

Daniel Charrier, MPI-PKS Dresden

Quantum Phase transitions in quantum Spin tubes

Cheng-Chien Chen, Stanford

The physics of coupled spin-orbital degrees of freedom and iron pnictides

Bryan Clark, Princeton

Speeding up Quantum Monte Carlo Simulations

Hung T. Dang, Columbia

How much does a muon perturb a correlated electron material?

Snir Gazit, Technion

Continuous Space Worm Algorithm in the Canonical Ensemble,
with applications to 2D bosons with long range interaction

Jan Gukelberger, ETH Zurich

Doubled Yang-Lee model — Topological phases from non-unitary theories?

Hsiang-Hsuan Hun, UC San Diego

Numerical studies on spin-3/2 in cold atoms with SO(5) symmetry

Stephen Inglis, University of Waterloo

The effect of quantum fluctuations on a fully frustrated system

Shankar Iyer, Caltech

Numerical Real Space Renormalization of a 2D Random Boson Model

Hyejin Ju, UCSB

Defect-driven phase transitions out of the Coulomb phase

Alexander Wollny, University of Cologne

Vacancies in non-collinear antiferromagnets

July 15th

Mehrtash Babadi, Harvard

Quench dynamics of interacting Fermi systems:
Competition between pairing and magnetization

Maissam Barkeshli, MIT

Bilayer quantum Hall phase transitions and non-Abelian fractional quantum Hall states

Yuting Hu, Utah

Ground state degeneracy of the Levin-Wen model on closed surfaces

Ann Kallin, Waterloo

Measuring Renyi Entanglement Entropy in Quantum Monte Carlo Simulations

Jonas Kjall, UC Berkeley

Confinement in Spin-1/2 Ladders

Chen Liu, Boston University

Symmetry breaking and criticality in tensor-product states

Yuan-Ming Lu, Boston College

Schwinger fermion mean-field theory of spin liquids on a honeycomb lattice

Farzad Mahfouzi, Delaware

Microwave-driven ferromagnet--topological-insulator heterostructures:
The prospect for giant spin battery effect and quantum charge pump devices

Jeremy McMinis, Urbana

Momentum Distribution and Renormalization Factor of Sodium

Lin Nan, Columbia

Physics of the Pseudogap in 8-site Cluster Dynamical Mean Field Theory:
Photoemission, Raman scattering, in-plane and c-axis conductivity

Stefan Natu, Cornell

Dynamics in a two-component Bose-Mott insulator

Arijeet Pal, Princeton

The Many-Body Localization Transition

Stefanos Papanikolaou, Cornell

Lattice defects in topologically protected systems

Ville Pietilä, Aalto University

Phase transitions in dipolar spin-1 Bose gases

Jedediah Pixley, Rice University

Scaling and relaxational dynamics near Kondo-destroying quantum critical points

Stephan Rachel, Yale

On the Relation between Entanglement and Fluctuations in interacting quantum systems

Armin Rahmani, Boston University
Quench dynamics of the entanglement entropy in the toric code

David Schwandt, Toulouse
Derivation of General Quantum Dimer Models:
Application to the kagome antiferromagnet

July 22nd

Gang Chen, Boulder
Spin-orbit interaction for t_{2g} electrons in an FCC lattice:
Application to ordered double perovskites

Stefan Depenbrock, LMU Munich
Projected Entangled Pair States for Spin Systems

Taylor Hughes, Urbana
Entanglement Spectra of Disordered Chern Insulators

Alan Luo, University of Washington
Unitary Fermion Dynamics on a Peta-Scale Supercomputer

Marek Rams, LANL
Dynamics of inhomogeneous quantum phase transition

Andre van Rynbach, UCSB
Orbital ordering in e_g orbital systems: Thermodynamics of the 120 degree model

Bill Schneider, Ohio State
Universal Short-Distance Structure of Fermi Spectral Functions

Arnab Sen, Boston University
Fractional spin textures in the frustrated magnet SCGO

Brigitte Surer, ETH Zurich
SU(2)-invariant Quantum Monte Carlo simulations of multi-orbital systems

Naoto Tsuji, Tokyo
Correlated fermions driven by ac fields: transition from repulsive to attractive interaction

Vipin Varma, University of Bonn
Series expansion method for quantum lattice models

Michael Wall, Colorado School of Mines
The Hyperfine Molecular Hubbard Hamiltonian

Chenjie Wang, Brown
Probing the nature of $\nu=5/2$ quantum Hall state: Abelian or non-Abelian

Xin Wang, Columbia
Optical conductivity of high-Tc cuprate superconductors: a DMFT study

Kai-Yu Yang, ETH Zurich
Strong diamagnetism in the cuprates

Chuck-Hou Yee, Rutgers
LDA+DMFT Modeling of LaNiO₃ Thin Films

Frank Yi Zhang, Berkeley
Metallic Line Defects in three-dimensional Topological Insulators

Huaixiu Zheng, Duke
Multi-Photon Bound States Produced by a Two-Level System in a 1D Waveguide