

Columbia Department of Physics PhD Graduates

September 2018

Maximilian Abitbol

"Studying the effects of galactic and extragalactic foregrounds on cosmic microwave background observations."

Dissertation Sponsor and Research Advisor: Professor Bradley Johnson

Heather McCarrick

"Design and performance of kinetic inductance detectors for cosmic microwave background polarimetry."

Dissertation Sponsor and Research Advisor: Professor Bradley Johnson

Zachary Greene

"XENONIT: Spin-independent WIMP dark matter results and a model to characterize the reduction of electronegative impurities in its 3/2 ton liquid xenon detector."

Dissertation Sponsor and Research Advisor: Professor Elena Aprile

October 2018

Laura Havener

"Precision measurements of jet quenching in relativistic heavy ion collisions at the LHC."

Dissertation Sponsor and Research Advisor: Professor Brian Cole

December 2018

Drew Edelberg

"Systems of transition metal dichalcogenides: Controlling applied strain and defect density with direct impact on material properties."

Dissertation Sponsor and Research Advisor: Professor Abhay Pasupathy

December 2018

Zhuoran He

"Computational Studies and Algorithmic Research of Strongly Correlated Materials."

Dissertation Sponsor and Research Advisor: Professor Andy Millis

February 2019

Felix Clark

"Femtoscopic signatures of small QGP droplets in proton-lead collisions at the Large Hadron Collider."

Dissertation Sponsor and Research Advisor: Professor Brian Cole

April 2019

Victor Genty

"The MicroBooNE Search For Anomalous Electron Neutrino Appearance Using Image Based Data Reconstruction"

Dissertation Sponsor and Research Advisor: Professor Mike Shaevitz

May 2019

Qiang Han

"Landau free energy formalism and dynamical mean field study of phase transitions in ruthenates."

Dissertation Sponsor and Research Advisor: Professor Andy Millis