

Department of Physics and Astronomy



Summer 2017—Charlie Guinn

Dr. Manfra's Group

I focus on measuring low temperature transport properties of two dimensional electron systems in indium arsenide and indium antimonide heterostructures. These materials are interesting to study because they have spin orbit coupling: meaning the orbital and spin degrees of freedom of electrons are coupled to each other. In Professor Manfra's group we are focusing on optimizing these materials because they have potential applications for topological quantum computing.