

Statement of Research Interests

Dr. Andrew C. Haas

The near-term future of experimental high-energy physics is without doubt at the LHC, and I would focus my research on the ATLAS experiment. With ATLAS getting ready for an engineering run in late 2007, and high-energy data in 2008, extremely exciting times are right around the corner. As a post-doc with the Columbia ATLAS group, I've already had a chance to contribute to commissioning efforts of the calorimeter and become familiar with the data analysis infrastructure by doing a simulated analysis. I would continue to help with the commissioning of the detector and software, as well as becoming even more involved in plans for triggering and physics analyses. My goal would be to make sure that myself, and the rest of the NYU group including students and post-docs, are ready to analyze and understand the first data from ATLAS, in search of new discoveries. Hopefully what I am interested in at ATLAS will be greatly influenced by discoveries in the initial ATLAS data! But otherwise I would likely continue to search for new phenomena such as Supersymmetry, or other more exotic signatures of new physics.