



Nikolas Logan

Graduate Institution: Princeton University

Graduate Discipline: Plasma Physics

Hometown: Santa Barbara, CA

Relevant SC Research: Fusion Energy Sciences

Research Interest:

Nikolas Logan's research is focused on magnetic confinement plasma physics with applications to fusion energy. His current thesis work concentrates on the study of toroidally confined plasma rotation in the presence of non-axisymmetric field perturbations. The work places a strong emphasis on improving our understanding of the resonant and non-resonant field torques both individually and together. In his research, Mr. Logan brings together computational modeling (specifically in the form of the Ideal Perturbed Equilibrium Code IPEC) and experiment (with current work being done on the DIII-D tokamak) in an attempt to gain a unified understanding of the physics and its application to magnetic fusion devices.

For additional information on Nikolas Logan's education, research activities, and publications please refer to the Princeton University website www.princeton.edu/~nlogan.

About Me:

Nikolas Logan graduated magna cum laude from Brown University in May 2009 with a bachelor of science in Physics. He is a member of the phi beta kappa society, the American Physical Society, and Sigma Xi. Currently at Princeton University, Mr. Logan has been awarded

his Masters from the University and is devoted full time to his Ph.D. research. He is passionate about what he does, believing strongly in the importance of fusion energy research and of scientific collaboration in the modern world. Mr. Logan's love for the ability of science to transcend socio-political boundaries is evidenced by his numerous international collaborations, including his study at the National University of Singapore as well as presentations and tours at the Peking National University, Chinese University of Science and Technology, and Japanese National Ignition Facility. Outside the realm of scientific research, he is a devoted rugby player and has played abroad in Singapore in addition to being elected vice president of multiple rugby football clubs in the US over the years.



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