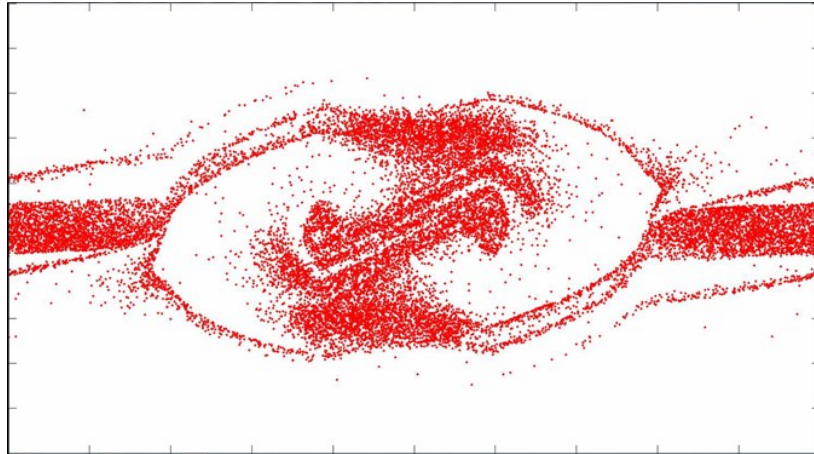


# Department of Mathematics

## *Fall 2014 Colloquium Series*



### **“Adventures in Plasma Physics via Supercomputer Simulation”**

**Kenneth Owens, Ph. D. & Tim Lauck**  
Department of Mathematics, HSU

Thursday, October 23, 2014

Behavioral and Social Sciences Building Room 204, 4 p.m.

Recently we have been able to show excellent agreement between supercomputer simulations and theoretical plasma collision frequencies by using a one-dimensional far-field particle-in-cell mover along with near-field Coulomb collisions. Undergraduates, graduates and faculty in math, physics and computer science are working on this project with the hope of contributing to the ongoing quest to make controlled fusion energy on Earth a reality. Join these HSU fusion aficionados for a lively discussion of current results, as well as ongoing work and future plans both from a theoretical and computational perspective.

*For a complete abstract, go to <http://www.humboldt.edu/math/news-and-events/math-colloquium>*

*Kenneth Owens is a Professor and Tim Lauck is a Lecturer in the HSU Department of Mathematics.*

***We invite you to the Pre-colloquium Tea on the third floor of the BSS  
building at 3:30 on Thursday.***