

Simulation of Turbulent Plane Couette Flow and Search for Periodic Orbits

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My planned course of action to develop a program to simulate Turbulent Plane Couette Flow and find periodic orbits.

1. **Thu Feb 19:** Figure out how to use Navier-Stokes here
 2. **Thu Feb 26:** Develop numerical framework
 3. **Thu Mar 4:** Code Simulation routine
 4. **Thu Mar 11:** Debug
 5. **Thu Mar 18:** Figure out how to penalize bad periodic orbit guesses
 6. **Thu Mar 25:** Code routine to penalize wrong periodic orbit guesses
 7. **Thu Apr 1:** Debug
 8. **Thu Apr 8:** Find a periodic orbit
 9. **Thu Apr 15:** Analysis of orbit
 10. **Thu Apr 22:** Write up results, more analysis
 11. **Thu Apr 29:** Proofread, polish
 12. **Thu May 6:** Collect Clay Mathematics Institute \$1,000,000 prize
- Debugging weeks may be compressed to allow spill over from other weeks

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