

Wednesday, February 15, 2017

3:10 – 4:00 PM

**Procrastinator Theater
Strand Union Building**

“Storm in a quantum droplet”

Dr. Tyler Neely

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Summary:

Turbulence is the chaotic flow of eddies and whirlpools that occurs in a flowing fluid. It is a ubiquitous phenomenon, but the theoretical foundations remain poorly understood. By cooling a dilute gas of atoms to nearly absolute zero, researchers are able to produce a novel state of matter known as a Bose-Einstein condensate. Recent numerical studies have demonstrated a connection between two-dimensional turbulence in classical systems and these quantum systems. This lecture will focus on the ongoing experimental work in this field that seeks to connect quantum and classical turbulence.

Host: Rufus Cone

Dr. Neely is a candidate for a Physics Faculty Position