



PHYSICS AND ASTRONOMY SEMINAR

Dr. Pascale Garaud

Baskin School of Engineering, UC Santa Cruz

“Shear instabilities in star”

Abstract

In astrophysical fluids, i.e. within the interior of stars and planets, the Prandtl number is often asymptotically small. In this limit, it is possible to trigger shear instabilities even when the Richardson number is very large, a scenario known as "diffusive shear instabilities". I will review what is known of diffusive shear instabilities, going from simple stability analyses to the outcome of direct numerical simulations.

Tuesday, January 08, 2019
10:30 a.m.
CLE Building – Room D130