



université
PARIS-SACLAY

M2 internship and PhD thesis (2021)

Laboratoire FAST, Orsay

Turbulence and internal waves in rotating and stratified fluids

The PhD student will have to develop and run experimental setups aiming at forcing turbulent flows in rotating or stratified fluids in a regime of wave turbulence.

The project will consist in exploring experimentally the regimes of wave-vortex coexistence in rotating and/or stratified turbulence. Experiments will be conducted on the rotating platform of FAST laboratory in Orsay, which is able to carry velocimetry systems using several cameras. Beside the development and realization of experiments, the PhD student will be fully involved in the data analysis and in their comparison to theoretical formalism.

Candidates should have received a high-level academic education in statistical and non-linear physics and/or in fluid dynamics.

This PhD thesis will be developed in the framework of the Simons Collaboration on Wave Turbulence:

<https://cims.nyu.edu/wave-turbulence/>

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Laboratoire FAST

FLUIDES, AUTOMATIQUE et SYSTÈMES THERMIQUES

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