

Master thesis - Comparison and validation of models in LES of spray combustion

In this project, the student will research different modeling strategies proposed in the literature for spray flames. This includes, but is not limited to, models for injection, primary/secondary droplet breakup, liquid film formation, and evaporation. The student will test the chosen models in Large Eddy Simulations (LES) of an aviation engine case from the literature.

Aim:

- Provide an informative review of available models
- Carry out LES with different models to gauge their impact
- Validate against experimental data to provide recommendations for future studies

