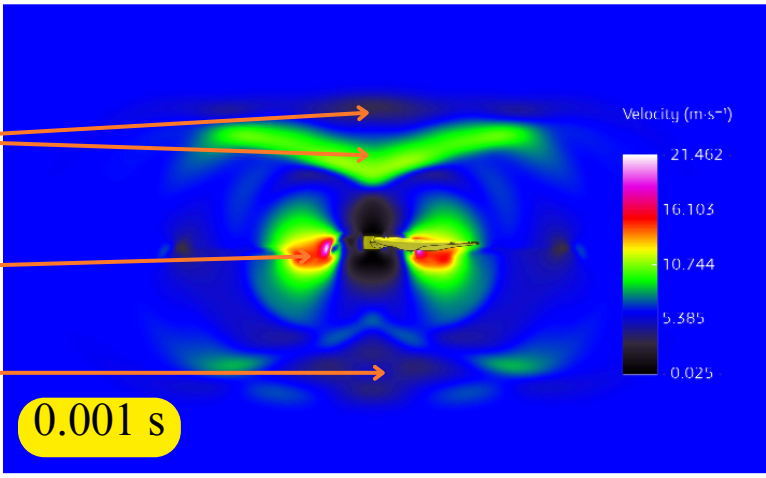


# Toroidal Propeller - 10° - 6 m/s

Symmetrical flow pattern

High-velocity region

Downwash effects

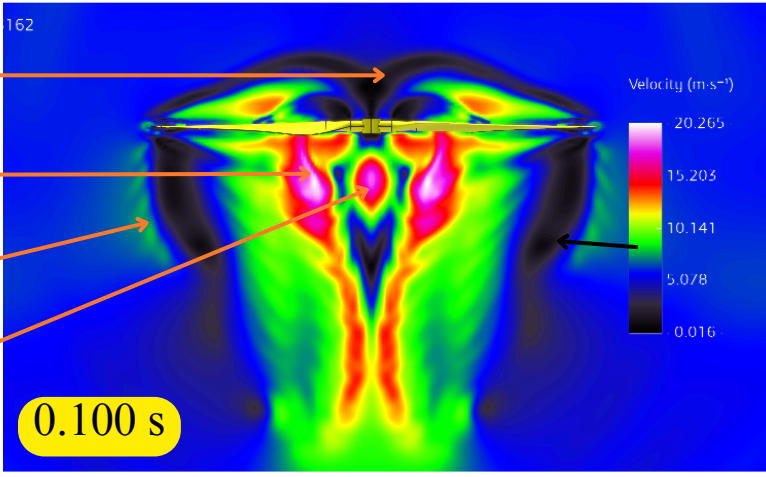


Stable airflow

Development of foppl vortices

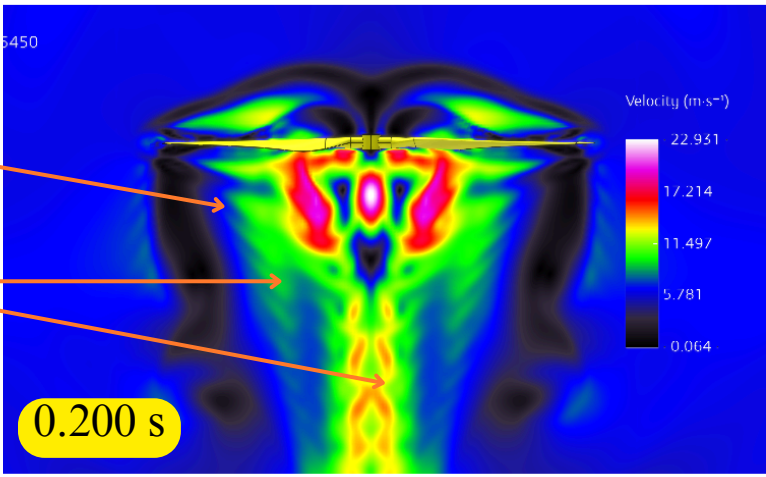
Increased velocity near blade edges

Vortex Formation



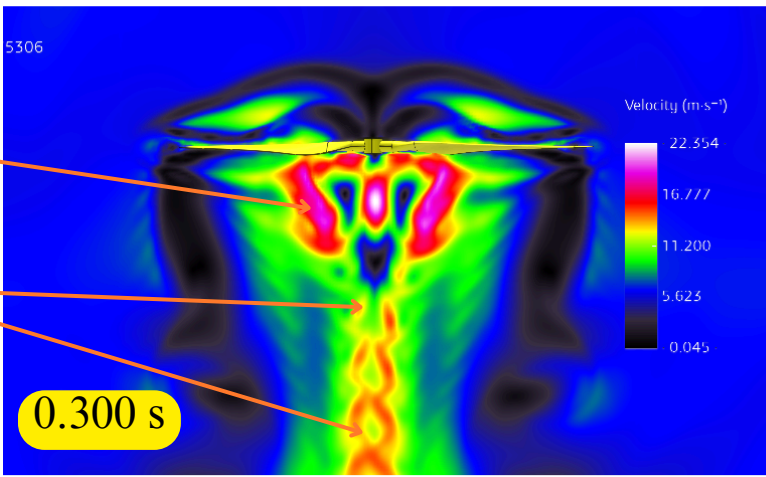
Well-defined vortex structures

Observable symmetrical patterns (stable)



Symmetrical pattern velocity

Flow separation starts



Shear layer formation

Unstable vortex breakdown

