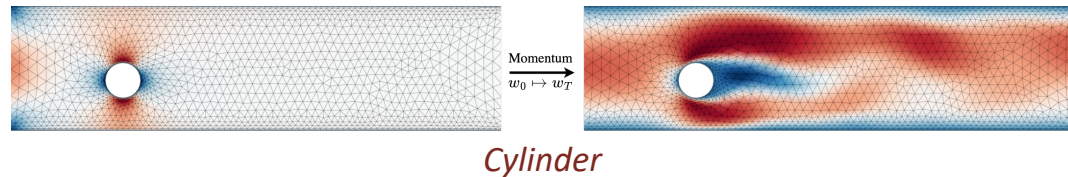We introduce **CORAL:** a new method that leverages **coordinate-based networks** for Operator Learning
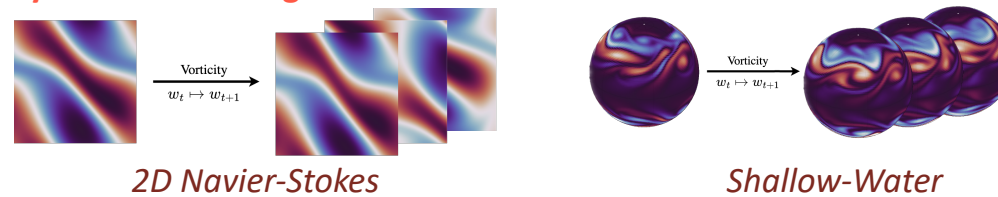
Tasks

Characteristics

- CORAL is tailored for **irregular meshing**

- CORAL can be used for
  - **Initial Value Problem**
  - **Dynamics modeling**
  - **Geometry-aware inference**

- CORAL's inference is **fast**

Initial Value Problem

Cylinder

Dynamics modeling

2D Navier-Stokes   *Shallow-Water*

Geometry-aware inference

Elasticity   *NACA-Euler*