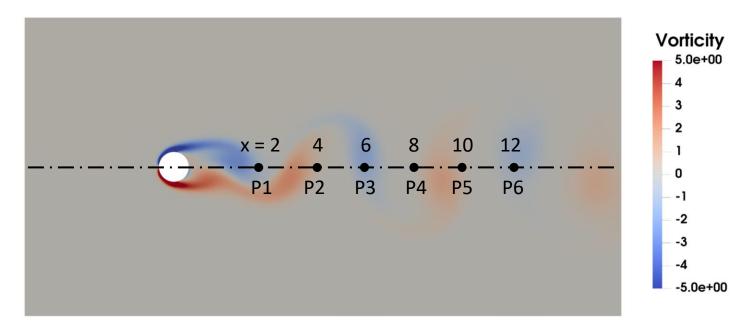
3. 2D DNS of flow past cylinder – Original data



Monitor points



- Monitoring variables
 - Velocity u
 - Velocity v
 - Pressure p
 - dt = 0.005s

- Possible tasks
 - Prediction between variables
 - Prediction between locations

3. 2D DNS of flow past cylinder – Reduced-order data

Drigihal

5000

5000

4000

4000

4000

3000

3000

3000



POD reduced-order data (example at Re=60)

1000

1000

1000

0.02

0.00

-0.02

0.05 0.00

-0.05

-0.10

0.05

0.00

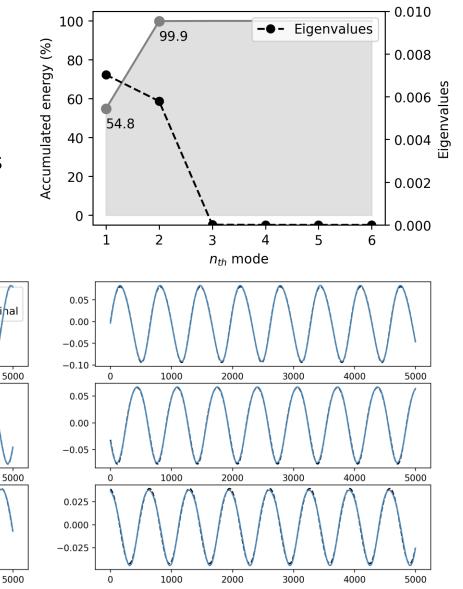
-0.05

Reconstruct use top 2 modes

2000

2000

2000



POD reconstruction