

## **Recitation 4: Ideal Flow**

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1. Calculating vorticity in given flow field (see first 6min of film "[Vorticity Part I](#)")
    - 1.1 Pipe flow
    - 1.2 Vortex tank
  2. Vortex line, vortex tube, vortex ring
  3. Visualizing vortex rings (cigarette smoke etc)
  4. Vorticity flux
  5. Cheat sheet on  $\Gamma$ ,  $\omega$ ,  $u$
  6. Summary on vorticity
  7. Comments on Bernoulli
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