

IMPERIAL

Flat domain

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Domain

- Flat domain. I ran the baseflow till numerical steady state (I could set large Δt).
- At the end I am using a full (small in height) BL of quads for the mesh.
- Previous length (upstream + gap + downstream): $L = (50 + 16.25 + 150)\delta^* = 216.25\delta^*$.
- New length: $650\delta^*$.

Most unstable mode

First two eigenvalues are real.



There's an accumulation of energy at the outflow boundary. I tried to increase the length of the domain to avoid this but it didn't work. Is it physical the mode?