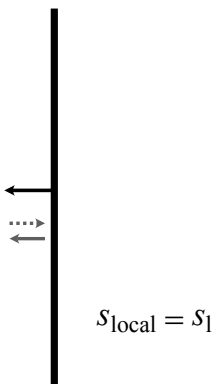


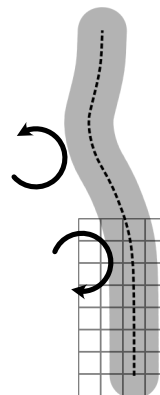
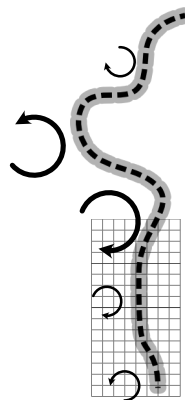
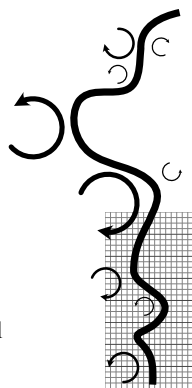
Laminar

Turbulent

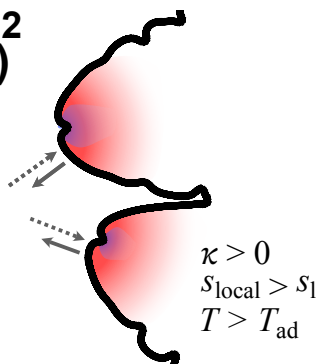
Lean C_xH_y
($Le \approx 1$)



$$S_{turb} > S_1$$

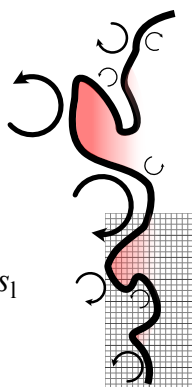


Lean H_2
($Le < 1$)

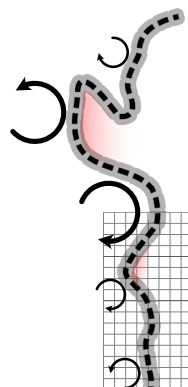


DNS

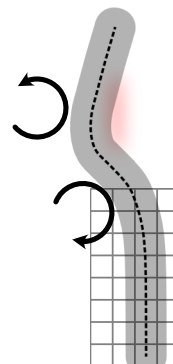
$$S_{turb} \gg S_1$$



DNS



LES



URANS

→ Heat Diffusion
....→ Species Diffusion

Resolved Interactions

Modeled Interactions