TIL 1.7

Box of L' volume filled with decaying turbulence.

large eddy scale 
$$\ell \sim L$$
 $\ell \sim u^3/L$ , Re 7/10

i. of  $(\frac{5}{2}u^2) = -u^2$ , (rate of change of TKE =  $\ell$ )

3 u du =  $-u^3$  dt

 $u(t) du = -t/t$  dt

 $u(t) = \frac{1}{3L} + \frac{1}{3L}$ 
 $u(t) = \frac{3}{3L} + \frac{1}{4}u(t)$ 
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 $u(t) = \frac{1}{3L}u^2$ 
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taking Re < 10 for lammas sublayer and Ux = u (smooth walls)

