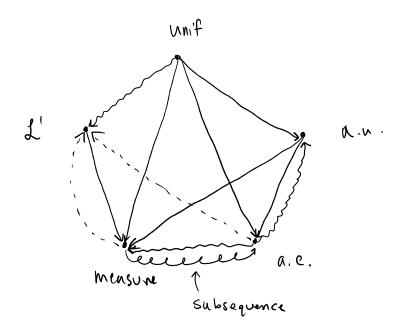
Munroe



$$\mu(x) < \infty$$
 $\longrightarrow D$
 $domination |f_n| \leq g \in L' - \cdots$



$$f' = [0,1]$$

$$E_{2} = \{0, \frac{1}{2}\}$$

$$E_{3} = \{\frac{1}{2}, \frac{1}{2} + \frac{1}{3}\}$$

$$E_{4} = \{\frac{1}{2} + \frac{1}{3}, \frac{1}{2} + \frac{1}{3} + \frac{1}{4}\} \text{ mod } 1$$

$$f_{i} = \gamma e_{i}$$

$$(f_j)$$
 converges in [heave] $e(L')$, (to 0).
not pointwise or a.e.

Cauchy [Measure]

$$f(\chi) = \frac{(-1)^{\frac{h}{h}}}{n} \quad \text{for} \quad \chi \in (n-1, n]$$

but f ∉ L'.

if
$$f = \begin{cases} 1 & N_{0}[0] \\ N_{0}[0] \end{cases}$$

then f\$ 1' even though | f| \in I'.

but f mble \Rightarrow $|f| \in L' \iff f \in L'.$

If and If always exist.

If $f \in L'(a,b)$, when is $f \in R(a,b)$.

"dearly" f do is sufficient.

Piecewise cts is sufficient.

n.a.s.c: {x | f discontinuous at x} is Lebesgue - null.