La función de Cantor

$$D' = \left(\frac{7}{7}, \frac{3}{3}\right)$$

$$Du = \bigcup_{j=1}^{2^{n}-1} \left[\alpha_{1}^{n}, \beta_{j}^{n} \right] \quad \beta_{1} < \beta_{1}$$

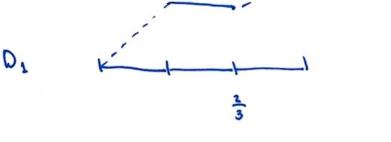
$$l_{j}^{"}(x) = \frac{1}{2^{n}} \frac{(x-\beta_{i}^{"})}{d_{j+1}^{n}-\beta_{i}^{"}} + \frac{1}{2^{n}}$$

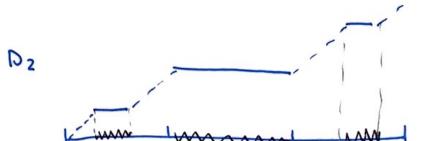
Defininos

$$f_{u}(\alpha) = \begin{cases} \frac{1}{2^{u}} & si & d_{1}^{u} \leq \alpha \leq \alpha', \\ \frac{1}{2^{u}} & si & 0 \leq \alpha \leq \alpha', \\ \frac{1}{2^{u}} & si & 0 \leq \alpha \leq \alpha', \end{cases}$$

$$Q_{ij}^{u}(\alpha) \quad si \quad Q_{ij}^{u} \leq \alpha \leq \alpha', \end{cases}$$







crecrete. Abuica. 25

Entonies

$$f_{u_n}(x) = f_u(x)$$
 s; $x \in [x_i^u, \beta_i^u]$ uniformemente

$$f_{u_{11}}(x) = \frac{j-1}{2^{u_{11}}}$$

Luego
$$|f_{u(a)} - f_{u_{+}}(x_{1})| \le \frac{1}{2} x$$

per todu $x \in [0, 1)$, $|f_{0}| \in 1$
 $|f_{-}| + |f_{-}| = 1$

$$\int_{a} [t^{n+1} - t^n]$$

u=.
converge uniformemente. Ent $f_u \longrightarrow f$

La fanción resultante es la

función de Contor. Ent

fer continue y acciente,

f(0) =0, f(1) = 1.

Además si xe I, ent

$$f_n(x) = f_1(x) = \frac{2n}{n}$$

si jzu. Ent fal = 1

o', f'(a) =0 en I',

in 1'(2) =0 en CO, [] (C