(Nearly uniform convergence)

$$\Rightarrow$$
 $\exists k_{\ell} / 1 \infty , s.t.$

$$A = \bigcap_{k=1}^{\infty} \bigcap_{k=k}^{\infty} \left\{ |f_{1k} - f| < \frac{1}{2} \right\}$$

Lemi

$$f_{k} \Rightarrow f \quad \text{on} \quad A \iff \exists k_{l} \nearrow \infty \quad \text{s.t.}$$

$$A = \begin{bmatrix} 1 \\ k = k_{l} \end{bmatrix} \quad \{f_{k} - f\} < \frac{1}{l} \}$$

Thm (Lusin) 及巨寸12], f在巨上寸12] 且 a.e. 麻水- $[R] \forall \epsilon > 0, \exists F_{\epsilon} \subset E \not\exists j s.t. m(E \setminus F_{\epsilon}) < \epsilon$ 17 f | F & 19 54. $Rml(\sqrt{3})$ def $\sqrt{x} \in F$, $\forall \varepsilon > 0$, $\exists \delta > 0$, s-t. 13.]: f = XQ (+ R = 7-19 1/4, 13 f Q 4= FIR & FREFE Step 1 2 (B) 1/3 f simple.

Step 3

$$F = \{F_{K}\} = \{F$$

$$78 \stackrel{\leftarrow}{A} \stackrel{\leftarrow}{A} \stackrel{\leftarrow}{K}, \quad \Rightarrow Step 2, \quad \exists F_{K} \subset E_{K} \mid A \mid s. t.$$

$$m(E_{K} \setminus F_{K}) < \frac{\epsilon}{2^{K}} \stackrel{\Box}{U} \quad f \mid F_{K} \stackrel{\Box}{E} \mid f \mid F_{K} \qquad f \mid A \mid g. t.$$

$$\Rightarrow f \mid F \stackrel{\Box}{U} \stackrel{\leftarrow}{K} \stackrel{\leftarrow}{E} \mid F_{K} \qquad f \mid A \mid g. t.$$

$$\Rightarrow f \mid F \stackrel{\Box}{U} \stackrel{\leftarrow}{K} \stackrel{\leftarrow}{K} \qquad f \mid A \mid g. t.$$

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