$\cancel{\phi}(N) = \cancel{2^{nN}}$: $\underline{\cancel{\#}\text{of subsets}}$ and $\cancel{\#}\ \cancel{\frac{1}{V(\ldots)} f_{n,N} \to A}$

$|T| / 2^{-nN} = 2^{nN} |T|$

$\sum_{k=1} f_{n,N}$ $\quad \underset{\text{of each}}{\overset{\text{volume}}{\mapsto}}$ $\cancel{f_{n,N}}\ \frac{1}{N} f_{k,N} \longrightarrow \cancel{k}\ A$

as $N \to \infty$ $\forall n$.

then claim $\cancel{\phi}\ \sum_{n=1}^{N} f_{n,N} \longrightarrow A$

well $\left| \sum_{n=1}^{N} f_{n,N} - A \right| + \left(f_{n,N} - \frac{A}{N} \right)$

$= \left| \sum_{n=1}^{N} \right.$

$\boxed{N f_{n,N} \to A}$

Volume $= 2^{-nN}$

$\cancel{\boxed{2^{-nN}}}$

Volume ~~of each~~ is $\frac{1}{2^{-nN}} f_k$

volume

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n: spacing have $\cancel{O}\left(|T| / 2^{-nN} \right)$ subsets.

$O\left((|T|) / 2^{-nN} \right)$

$\sum_{k=1} f_{k,n}$ $\quad k$ goes over all subsets.

have $\frac{1}{2^{-nN}} f_{k,n} \xrightarrow[\text{uniformly}]{} A$

then $\cancel{\mathcal{E}}$ this sum $\longrightarrow A$