

So,

$$\begin{aligned}
 P(A_{nj} \cap E_\varepsilon) &\leq \int A_{nj} P_{nj}(x) dx \\
 &\leq \int A_{nj} \times M_f dx \\
 &\leq \delta M_f \times C_N C_\varepsilon^N d_m^N
 \end{aligned}$$

So for 11.2.29, $\sum_j P(A_{nj} \cap E_\varepsilon)$

$$= \sum_j \delta M_f C_N C_\varepsilon^N d_m^N$$

$$= \delta \sum_j M_f C_N C_\varepsilon^N \sum_j d_m^N$$

$\rightarrow C_N \ln(T)$

So taking $\delta \rightarrow 0$ yields the result.

is $\max_{i,j} i=1, \dots, N, j=0, 1$

At start of proof, $\max_{i,j} \sup |f_j^i(t)|$ is ~~kind of a typo~~

they get bound $P(\sup |f_j^i| < C_\varepsilon)$

as f_j^i is cts by assumption

and so separable. It should be $\max_{i,j} \sup_{t \in [0, \infty)} |f_j^i(t)| < C_\varepsilon$ (continuous)

need C_f

\leftarrow

$j=0, 1$

~~one the right~~

PTU