

$$P_{\nabla Y(t)} \mid \sup_t \nabla^3 Y(t) (x|y)$$

$P_{X|Y}(x|y)$ is continuous in x (about $x=0$)

#

y fixed.

$$\alpha_1 = \frac{P_{Y|X}(y|x) P_X(x)}{P_X(y)} \rightarrow \text{continuous in } x \text{ as } P_X \text{ Gaussian}$$

$P_X(y) \rightarrow \text{constant}$

$$\nabla^3 Y(s) = \sum_i^{\infty} (s) \nabla Y(t)$$

$\leftarrow \nabla Z(s)$

independent of $\nabla Y(t)$

$$Y|X \sim \nabla^3 Y(s) \mid \nabla Y(t)$$

$$\sim N \left(\sum_i^{\infty} (s) \nabla Y(t), \sum_i^{\infty} Z(s) \right)$$

this has a density ctr in $\nabla Y(t)$

$P_Y(y)(x)$ is ctr in x !

so if $\sup (x \text{ and } a(t)x + z(t))$

multivariate then $\mu(t)x + z(t) = y(t)$

fixed f^m

value

that P_X is ctr in $\leftarrow \mu(t)x + z(t)$