STA 3000

Levere 16.

The (Bernstein -von-Mises).

The QMD,
$$I(\theta^*) > 0$$
, stock Lip.

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by Truch = by T (04+ =) + = by Pot the (Xi)+c + 1 h 1 = 72 by por(x) h. + C Ly Tin(h) ≈ C' - ½hTI(b*)h+ IT = 7 1 Ly p*(X1) Load 1+symptotic /Vinimanx. Symmetre. (1-x)=(x)

Corollary: L loss fundam. Scoreffing Quasi-convex (x: Loc) (a) Load Asymptotle Minimers. lim liming inf sup Coto noto fin 110-09/12 Sin TITION $Z \sim \mathcal{N}(0, I(\mathbf{e}^{\mathbf{x}})^{-1}).$ Lerny mhimise E[L(h+2)] hH^{α} $h^{*}=0.$

Nonparamethles. $X_1 - X_n \stackrel{\text{iid}}{\sim} p^* \in \mathcal{P}$ 1. Denvy 2. Nonpara regression. (Xi) res deceminson trandom. $V_{i} = \int_{0}^{\infty} (X_{i}) + \varepsilon_{i} \quad \mathbb{E}\left[\varepsilon_{i} \middle| X_{i}\right] = 0$ fref. Popular classes on K compar when of Rk — Hölder class. $\leq (\beta, L)$ $\beta > 0$ L > 0BEN, Sf: K->1R | Dmfis | <L, Ymep, xek} 28.07. 12 | 12 min m. - 2 min f(x) | <L | 1 millisp | 2x1 2x2--3xk f(x) | ≤ L | | m | 1, ≤ β. beN [B, L):= | f: K→18 | AxiA | Alm!! < p | AxiA | AxiA | AxiA | Alm!! < p | AxiA | AxiA