BLUE of B and BLUP of u have the following properties: · Linear function of y · unbiased => E[B] = E[B] ; E[u] = E[u] · Best: var (B-B) od var (u-u) minimal Lo var (B-B) = var (B) + var (B) $-2cov(\beta,\beta) = var(\beta)$ Pis fix = D var (B) = 0 $cov(\beta,\beta) = \emptyset$ with $\beta = (xx)^{y}x^{y}$ linear y? quadratie 44 $vai(\hat{\beta}) = vai(X^TX)^TX^Ty$ = (xx) x var(y) [xxx) x]= (xx) x vx (xx)