FULL CONDITIONALS FOR B & Z based on MATRIX NORMAL MUTHINGENTE LINEAR REGRESSION

MODEL: Y B, Z = XB + E

NXE PXK KXL NYP PKK NKK ENMATHON (O, IN, E) IN-NOIMS IDENTITY MAT. Private BIZ~ MATNORM (Bo, To", Z) T= Privat Pa=cisions

NOTE: Privated A

B Denemos and IN (V, Co)

Exh So (B, E) FORMS CONJUGATE, MATHORM-IW PRIOR
(BNOT 11 OF E a priori) Full COND. For B:

Β/Σ, Υ κε = ½ + [½'(Υ-χδ)(Υ-χδ)] + + [∑'(Β-βω)] }

Δε = ½ + [½'(Υ-χδ)(Υ-χδ) + (Β-βω)' Τω (Β-βω)] }

Δε = ½ + [½'(Υ-χδ)(Υ-χδ) + (Β-βω)' Τω (Β-βω)] } B(X'X+To)B-2(To)+X'Y)B $X e^{-\frac{1}{2}+r}[Z'(B-M)V'(B-M)]$ Where: V = (T,+X'Y) PXE $W = V(T,B_0+X'Y)$:. BIT, E W MATNORM (M, V, 2) EQUIVALENTLY, Vec (B) ~ Nor (Vec(m), was)

KEY OBSERVATION: CAN UPDATE V & M USING LOW-DIMENSIONAL
MATNORM FORMULAS, THEN DRAW VCC(B) USING
LOW-DIM (PK) MULTIVARIATE NORMAL.

(2)12 4 8x 10 + 6x - 30 (-x 5) + (3 + 2) 1 - 23 + 2 x - 3 (x-x/2) (x-x/2) + (8-x/2) 1-6(3-x/2) (Z) 14 2 × (A) N