```
2 = (A I + I ) (A I y y + I x / 4.)
                                                            \frac{\hat{\chi}_{-1}(\hat{A} \sum_{y} \hat{A}) \hat{A} \sum_{y} \hat{y}}{\hat{G}^{2} = \frac{e}{m \cdot n}} = \hat{y}
                                                                               P= 0,2 Zy

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                                                                                                Q_{2} = (A^{T} P A)^{T}
Q_{2} = \hat{C}^{*} Q_{2}
                                                             Conjugate Priors
                                                                                                      Normal-Gamen
                                                                    Normal-Gauma Distribution
                                                                                   let the conditional density quetra p(x|\mu, \vec{tv})
                                                                                                    N(M, TV) sope
                                                                                  T \sim G(b, P), an inverse scale parameter P(T|b_{1}P) \sim G(b, P)
                                                                          The joint density function (p(x, T|A,V,b,P)
                                                                                                                      = \frac{p(x)\mu, \vec{\tau} \vec{V}}{p(x, \tau)\mu, V, b, P} \sim NG(\mu, V, b, P)
= \frac{p(x)\mu, \vec{\tau} \vec{V}}{p(x, \tau)\mu, V, b, P} = (2\pi)^{-\frac{N}{2}} \left(\frac{det}{V}\right)^{-\frac{1}{2}} b^{P} \left(\frac{1}{|V|}\right)^{-\frac{1}{2}} \tau^{\frac{N_{2}+P-1}{2}} exp \left\{-\frac{1}{2} \left[2b + (x-\mu)^{T} \vec{V}(x-\mu)\right]\right\}
                                                                                                                                                                               by0, p70, O<T<0, -0<xid
                                                                                                                                                                                                                                                                                                                                          marghed distribution for 2 0
                                                                                                                                  ( [p] = (p-1)!
                                                                                                                                  (P+1/2)= 12p-1) 12p-3) -- 5x3x1 JA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              670 P70
                                                                                                                                                                                                                                                                                                                                         marginal distribution T
P(T) = G(b_1P) = \frac{b}{\Gamma(p)} T^{P-1} \exp \left\{-bT\right\}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 のくてくる
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 6 = 7 )
                                                                                                                                                                                                                                                                                                                                                        E(T) = P/6
                                                                                                                                                                                                                                                                                                                                                         D(T) = P/62
                                                                                                                                                                                                                                                                   y = Ax+e
                                                                                                                                                                                                                                                                                                                          \chi \sim N(\mu_0, \Sigma_{\kappa})_{\ell}
                                                                                                                                                                                                                                                                                                            p(y/x, 6/2) ~ N(A2, 68) y)
                                                                                                                                                                                                                                                                                                                                                                                                                       -1/2 { (J-M) = 1 (J-M) }
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             der(ci) = c'der(j
                                                                                                                                                                                                                                                                               p(y|u, Iy)= (210) 1/2 (deta) )1/2
                                                                                                                                                                                                                                          T = 12
                                                                                                                                                                                                                                                                                                                    \frac{1}{p \left( y \right) \left( \mu, \tau \right)} = (2\pi)^{-n/2} \left( \det \Sigma_{y}^{y} \right)^{1/2} \tau^{n/2} \exp \left[ -\frac{\tau}{2} \left( y - A x \right)^{T} \Sigma_{y}^{-1} \left( y - A x \right) \right]
                                                                                                                                                                                                                                                                                       Tikehihml
                                                                                                                                                                                                                                                                                                                        ρ(χ, τ) ~ N G(μ., Σχ, b., P.)
                                                                                                                                                                                                                                                                            Pride
                                                                                                                                                                                                                                                                                       posterion
                                                                                                                                                                                                                                                                                                                                                                               1 2B = 3
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