Parameter: Variability of process of

Prior:
$$\pi(\theta) \propto \lambda_0^{1}, \theta^{0} \in \mathbb{R}$$

$$\pi(\theta) = \lambda_0^{1}, \theta^{0} \in \mathbb{R}$$

assume p = 5 known , 2 un known

$$L\left(\begin{array}{c|c} x & \theta \end{array}\right) = \frac{1}{\sqrt{2}n} \theta^{\frac{n}{2}} = \frac{\sum_{i=1}^{n} \left(\frac{x_i - x_i}{2}\right)^2 \theta}{2}$$

Poskerim
$$\pi \left(\frac{\theta}{X} \right) \propto L\left(\frac{5}{9}\right) \pi\left(\frac{\theta}{9}\right), \quad \frac{\theta}{9} = \frac{1}{2} + \frac{1}{4}, \quad -1 = \left[\frac{1}{4} + \frac{\sum (\frac{1}{4} - \frac{1}{4})^{2}}{2}\right] \theta}{e}, \quad \frac{\theta}{9} = \frac{\eta}{2} + \frac{1}{4}.$$

$$\int_{a}^{b} \int_{a}^{a-1} (1-b)^{b-1} db = B(a,b)$$
Refa function

functions on readily available

Parameter: Variablely of process

$$\theta = \frac{1}{\sigma^{-1}}$$

$$\theta = \frac{1}{\sigma^{-1}}$$

$$\pi(\theta) \propto \lambda_{0}^{2} \theta^{2} e^{-1} e^{-\lambda_{0}\theta}$$

$$\theta \in (0,\infty)$$

$$\pi(\theta) = \lambda_{0}^{2} \theta^{2} e^{-1} e^{-\lambda_{0}\theta}$$

$$\pi(\theta) = \lambda_{0}^{2} \theta^{2} e^{-1} e^{-\lambda_{0}\theta}$$

$$Gamma(x, \lambda_{0})$$

$$Shape Tat$$

$$Deta (Likelihood): Sag measurements$$

$$\pi(\lambda_{0}^{2}) = \lambda_{0}^{2} \theta^{2} e^{-1} e^{-\lambda_{0}\theta}$$

$$= \pi(\lambda_{0}^{2})$$

$$E(\theta) = \frac{\gamma_1}{\lambda_1} \qquad V(\theta) = \frac{\gamma_1}{\lambda_1^2}$$

95 / CI 99 amma (