$$f_{j} \sim \mathcal{GP}(0,\kappa_{j}(\cdot,\cdot)) \rightarrow p(\mathbf{f}|\boldsymbol{\theta}_{0}) = \prod_{j=1} p(\mathbf{f}_{\bullet j}|\boldsymbol{\theta}_{0}) = \prod_{j=1} \mathcal{N}(\mathbf{f}_{\bullet j};\mathbf{0},\mathbf{K}_{j})$$
Covariance All NxQ latent function of function values Hyper- values for function j

$$f^{\text{th}} \mathsf{GP}$$
All NxQ latent covariance Hyper- values for function j