# LGCP with PC priors

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```
library('mapmisc')
library("geostatsp")
data('murder')
data('torontoPop')
```

## LGCP with priors given by quantiles

### LGCP with penalised complexity prior

```
pr(sd > 1) = 0.05 and pr(phi < 0.2) = 0.95
```

#### LGCP with table priors

#### **Parameters**

```
if(!is.null(resG$parameters))
    knitr::kable(resG$parameters$summary[,c(1,3,5)], digits=3)

if(!is.null(resP$parameters))
    knitr::kable(resP$parameters$summary[,c(1,3,5)], digits=3)

if(!is.null(resT$parameters))
    knitr::kable(resT$parameters$summary[,c(1,3,5)], digits=3)
```

## Maps

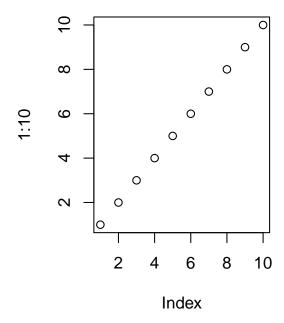


Figure 1: Priors and posteriors

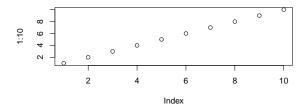


Figure 2: Random effects and fitted values