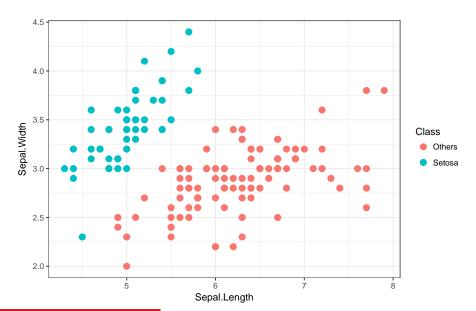
Fisher's Iris data set



Fisher's Iris data set - Model fitting

 Varitional inference for I-prior probit models implemented in R package iprobit (still lots of work to do!).

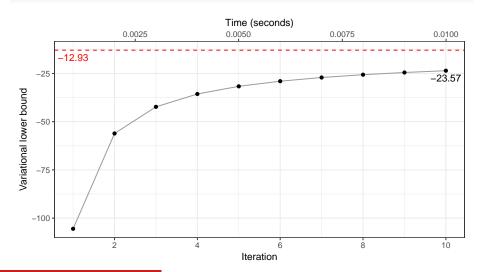
HJ (2017). iprobit: Binary Probit Regression with I-Priors. R Package version 0.1.0: GitHub

Fisher's Iris data set - Model summary

```
R> summary(mod)
##
## Call:
## iprobit(y = y, X, maxit = 10000)
##
## RKHS used: Canonical
##
##
      Mean S.E. 2.5% 97.5%
## alpha -4.1730 0.0816 -4.3330 -4.0129
## lambda 1.2896 0.0142 1.2618 1.3175
##
## Converged to within 1e-05 tolerance. No. of iterations: 6141
## Model classification error rate (%): 0
## Variational lower bound: -12.93486
```

Fisher's Iris data set - Lower bound

R> iplot_lb(mod, niter.plot = 10)



Fisher's Iris data set - Decision boundary

R> iplot_decbound(mod)

