







6][ 'XUhU'fYa YX]Yg

⊖fcUXg']bhc 'ZUghYf'; D'a cXY`]b[ 'UfY'VY]b[ 'a UXY'Zfca 'U'bi a VYf'cZ'Ub[ 'Ygži gi U``mVm  
Uddfcl ]a Uh]cb"

"DgYi Xc ']'bdi hg" fGbY`gcb / ; \U\ fUafUuX&\$\*\$ŁA Ú

H\Y'hfci V`Y']gžbchia UbmicZh\Ya 'Wca Y'k ]h\ 'gcZhk UfY"







5 'V][ !]g\ 'YI U



6cfY\c`Y`g]a i `Uh]cb

<YfY`]g`Ub`]a d`Ya YbhUh]cb`]b`WcXYX`]bdi hg"

borehol e <- <-



GUa d`]b[ 'Zfca 'h\Y'dcghYf]cf

Bck ž`Yhg'[ Uh\Yf'&\$\$\$'gUa d`Yg'Zfca 'h\Y'dcghYf]cfž

5bX'h\Yb'a U\_Y'dfYX]W]cbg'cb'h\Y'h(\a d'[Xd`€\a 'h@Yga 'è





HfUWY



--"-I 'gdUfgY3

@Yhg'gYY'\ck 'a i WX 'ZughYf'fUbX'\ck 'a i WX 'Ygg'UWW fUhYŁU'- "-I 'gdUfgY'j Yfg]cb']g"

```
sparsity <- 0.999
mc <- find.tau(den = 1 - sparsity, dim = ncol(x)) * ncol(x)
B <- 2000
suppressWarnings({
  time5 <- system.time(
    tau <- mcmc.sparse(y, x, mc=mc, degree=degree, maxit=maxit, B=B, verbose=FALSE))
  })
burnin <- 500
index <- seq(burnin+1, B, by %o
```



9l dUbXYX`Vca dUf]gcb

A i V\`ZUghYf"

```
times <- c(times, s999=as.numeric(time5[61
```

5`]hY`Ygg`UWV fUhY"



8 ]j j m]h i d

5bc h\ Yf'k Umhc 'jbXi WY'gdUfg]hm]b'h\ Y'Wcj Uf]UbWY'ghfi Wfi fY']g'hc

75pE12 i0W pVgZpYDwX•Dk\_À@ ò9 ñŠ)ScDsIÖHL VL VM\FKRD@K HV FW`0°@0\$´áp–LV



8]j ]XYXY]Y 5Y  
Q

H f b ' V U W \_ h \ Y ' W c W \_

I g Y ' c Z ' h f b ' b









HfYY'dfcdcgU`g

















BcoJ



HfYYX; Ui i YX\$±

6H, D'gi fZUWfgL

DfYhmXUfb '[ ccXž]Zmci 'Ug\_a Y"

```
plot.moto(out.btgp, outp.btgp)
```





&!X`GhUh]c bUfm; UmfU











J ]gi U`]n

@Zh'

J ]gi U`]n]b [ '5@A

: i hi fY'gUa d`Yg'k ]``VY`]b'h\Y'gi V!gcb]WfY[ ]a Y"



GdYYX





DfYhmi[ ccX

5b'cfXYf'cZ'a U[ b]hi XY'ZUghYf"

c(ful l

⊖XYXž'a i W\ 'cZ'h\ a U!A ]V`mUA

ž



C h\ Yf'\ Yi f]gh]Vg

f

hY[ fUhYX'fcj Yf'h\ Y']bdi hgdUWŁdfyX]Wj&kj]Ef[]UbW']g'Uj U]'UV`Y`k ]h\ E









































1



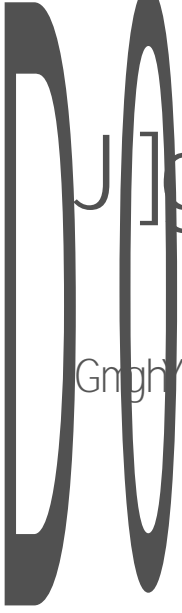












J]gi U`]n]b[ 'X]gWYdUbVm

Gnph'a Uh]WW]Ug'i]b'df'a Q











6UW<sub>1</sub>h





































⌘]h]U`]nUh]cb / ]a d`Ya YbhUh]cb

5g'A 58G']g'U`cWU`gc`j Yfž 'fYei ]fYg']b]h]U`]nUh]cb"

; fUa UWmYhU`"gi [ [ YghWccg]b[ 'ghUfh]b[ 'x!j U'i Yg'Zfca 'h\Y`VYghj U'i Yfgk'cZ'h\Y  
cV'YW]j Y'Zci bX'cb'U'ga U``gdUW!Z`]b[ 'XYg][ b"

H\Y' 'dUW\_U[ Y'WcbhU]bg'gYj YfU`'Zi bW]cbg'h\Uh'Ui hca UhY'h\Uh'cV'YW]j YžY"[ "ž

Ⓔ 'g`]\_Y'h\Y' 'Zi bW]cb'k Y']a d`Ya YbhYX'Zcf'h\Y'Zi ``; D'WUgY/

Ⓔ 'g`]\_Y'ci f' 'Zi bW]cb/

ⒺgdYW]U`WUgYg'Zcf'i bV]UgYX'WU]VfUh]cb'UfY'U'gc']a d`Ya YbhYX"









H\Y'gYh d

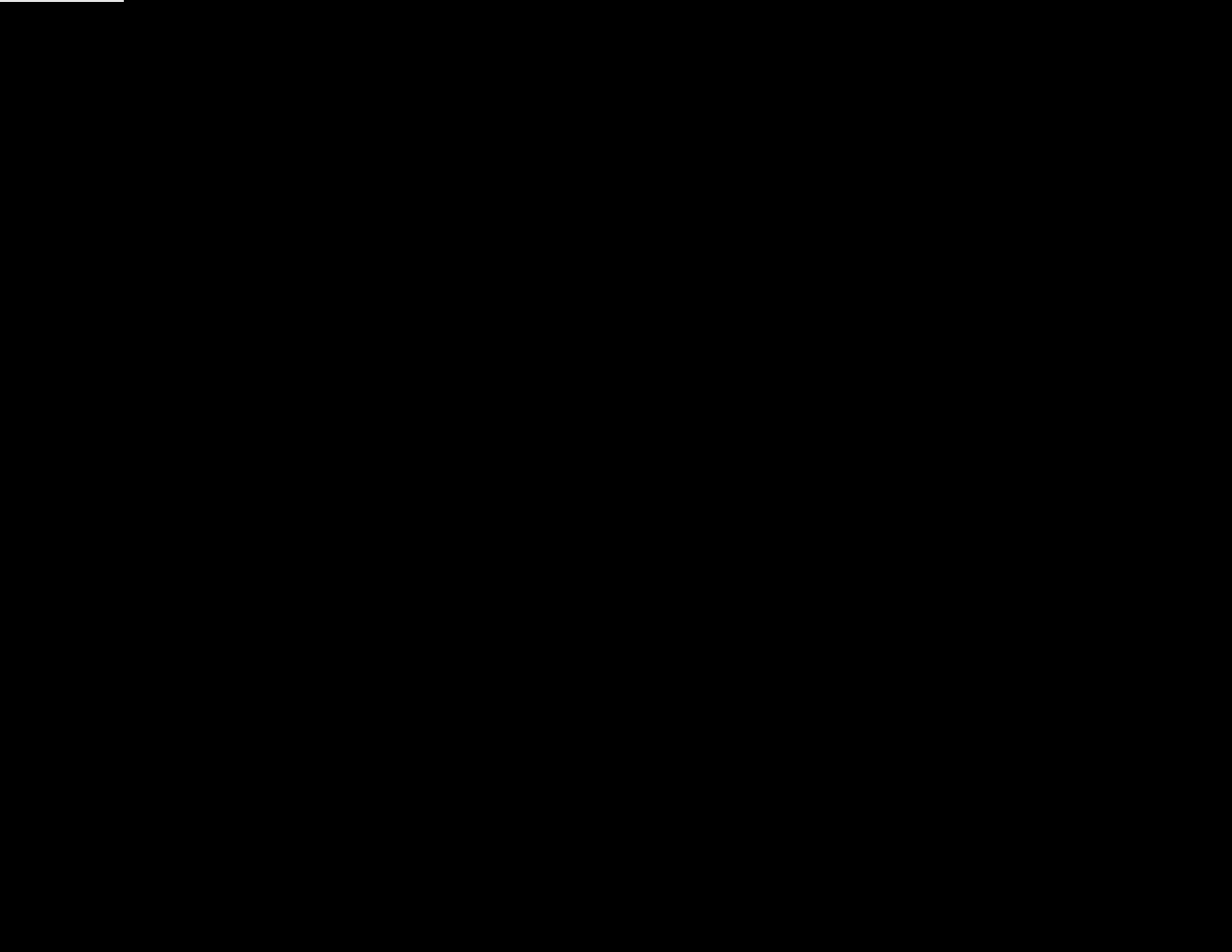
H\Y'Zc`ck ]b[ 'V`cW`cZ'WcXY'gYhg'XYZUi `h'df]c f g'UbX'gdYWZ]Yg'XYhU]'g'cZ'h\Y'a cXY`fgL'hc  
VY`Ygh]a UhYX"

H\Y'df]cf']g'Wca d`YhYX`k ]h\ 'U'flc [ L'df]cf'XYbg]hmicb'h\Y'WJ`VfUh]cb'dUfUa YhYfŽ ž  
WxcgYb'hc'X]gWci fU[ Y'gYh]b[ g'cb'h\Y`"YX[ Yg`"cZ'h\Y'gdUWY"











8]X`k Y`Xc`[ ccX3

C VgYfj Y`h\ Uh`h\ Y`hfi Y`~~h~~ j U`i Y`]g`ZUf`Zfca` h\ Y`~~h~~ h\ Uh`k Y`Zci bX"

Œ =bXYYXžh\ Y`gi fZUW`]g`ZU]f`midYU\_YX`Ufci bX`Ufci bX`~~h~~ž

Œ [ ]j ]b[ `j Yfm`]h`Y`gi ddcfh`hc`h\ Y`hfi Y`j U`i Y"

G]bW`h\ YfY`UfY`ZUf`ZYk Yf`Yj U`i Uh]cbg`a UXY`bYUf`~~h~~ž ž

"



9gh]

DfYX]W]b[ 'k ]h\ '

Bck\_k Y`W]b`f