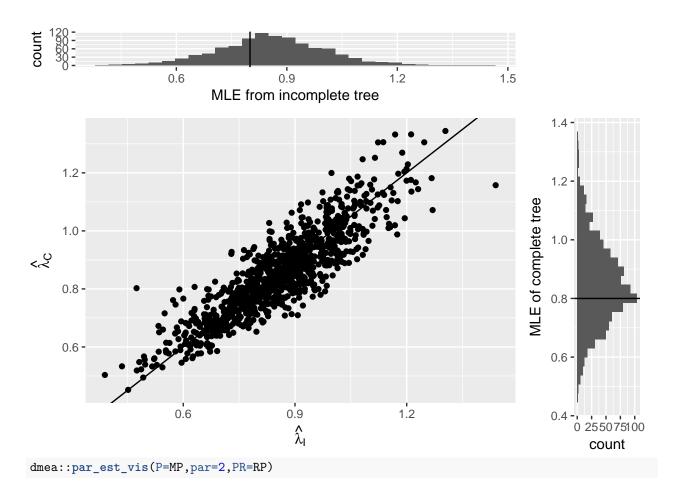
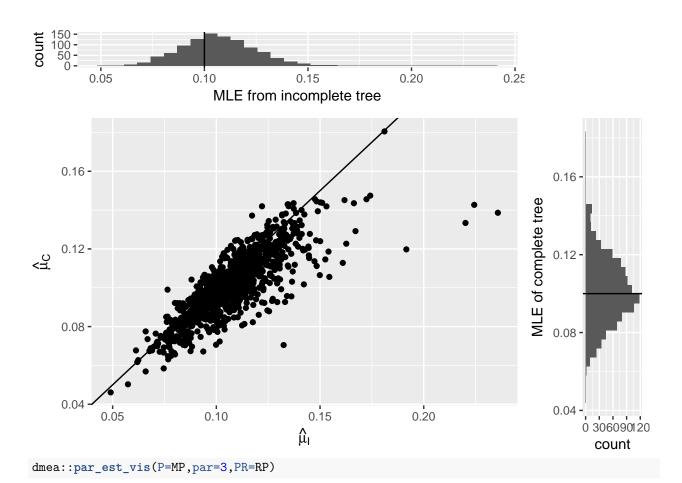
## Experiments

## Exp 1. How good is the last iteration of the MCEM

```
time = proc.time()
n_{sim} = 1000
n_{trees} = 10
MP = matrix(nrow=n_sim,ncol=3)
RP = matrix(nrow=n_sim,ncol=3)
p = proc.time()
for(i in 1:n_sim){
  est = sim.est(n_trees=n_trees,pars=c(0.8,0.1,40),seed=i)
  RP[i,] = est$real
 MP[i,] = est$est
print(proc.time()-p)
       user
              system elapsed
## 1108.172
               0.080 1108.613
get.time(time)
## elapsed
## 1108.621
dmea::par_est_vis(P=MP,par=1,PR=RP)
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```



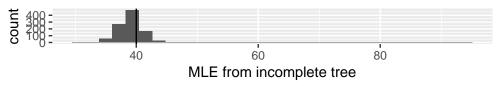
```
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
## `stat_bin()` using `bins = 30`. Pick better value with `binwidth`.
```

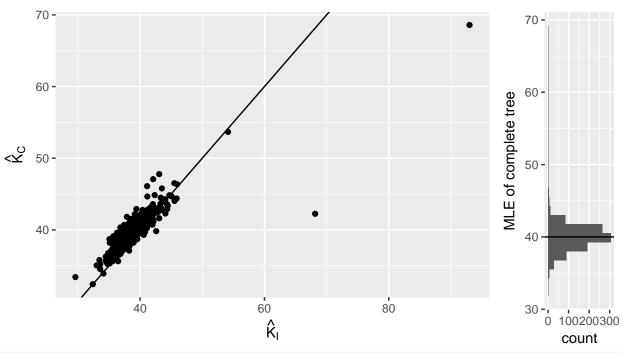


```
\#\# [1] "0.003 proportion of data was excluded for vizualization purposes"
```

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.

## `stat\_bin()` using `bins = 30`. Pick better value with `binwidth`.





## summary(MP)

##	V1		V2		V3	
##	Min.	:0.3894	Min.	:0.04906	Min.	:24.74
##	1st Qu.	:0.7670	1st Qu.	:0.09504	1st Qu.	:37.76
##	Median	:0.8542	Median	:0.10580	Median	:38.93
##	Mean	:0.8558	Mean	:0.10722	Mean	:39.04
##	3rd Qu.	:0.9468	3rd Qu.	:0.11806	3rd Qu.	:40.13
##	Max.	:1.4390	Max.	:0.23574	Max.	:92.99

## summary(RP)

##	V	1	V	12	V	73
##	Min.	:0.4521	Min.	:0.04611	Min.	:3.200e+01
##	1st Qu.	:0.7557	1st Qu.	:0.08961	1st Qu.	:3.900e+01
##	Median	:0.8363	Median	:0.10023	Median	:4.000e+01
##	Mean	:0.8497	Mean	:0.10096	Mean	:2.314e+11
##	3rd Qu.	:0.9381	3rd Qu.	:0.11241	3rd Qu.	:4.100e+01
##	Max.	:1.3443	Max.	:0.18053	Max.	:2.314e+14