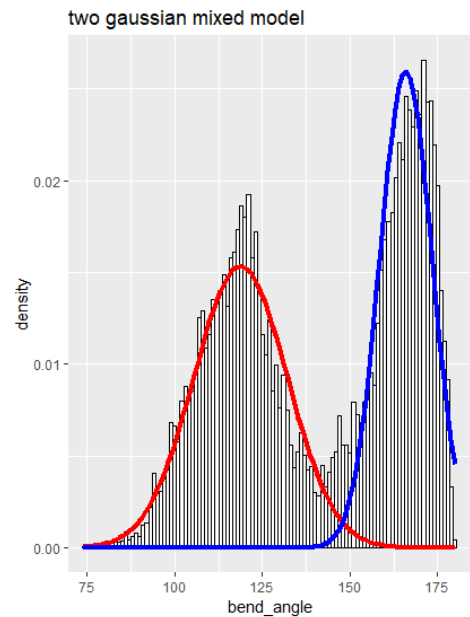```
Two mixed gaussians non proline
summary of normalmixEM object:
          comp 1   comp 2
lambda   0.513047   0.486953
mu   118.760184   165.911344
sigma   13.361777   7.496641
loglik at estimate: -55214.06
> data.frame(bend_angle = mixmdl2
```
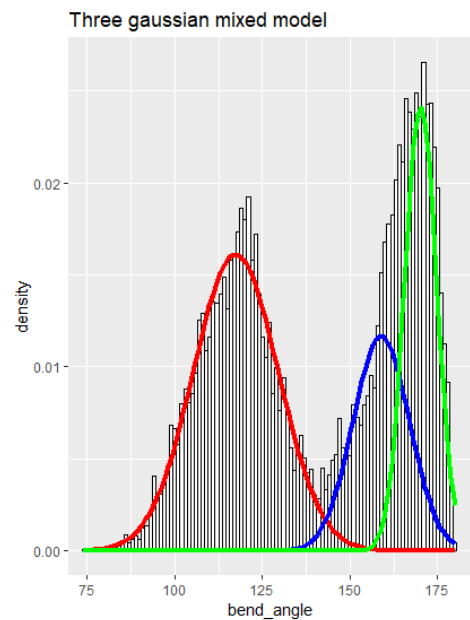
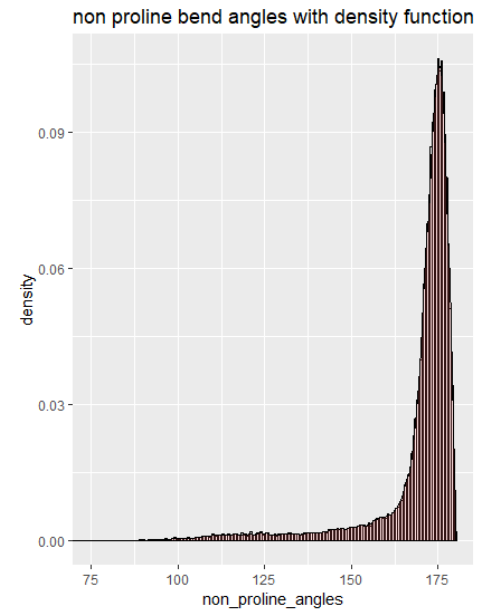two gaussian mixed model



```
Three mixed gaussians
summary(mixmdl3)
summary of normalmixEM object:
          comp 1   comp 2   comp 3
lambda   0.488383   0.235265   0.276352
mu   117.372331   158.892785   170.130773
sigma   12.093170   8.046908   4.571051
loglik at estimate: -54886.06
```
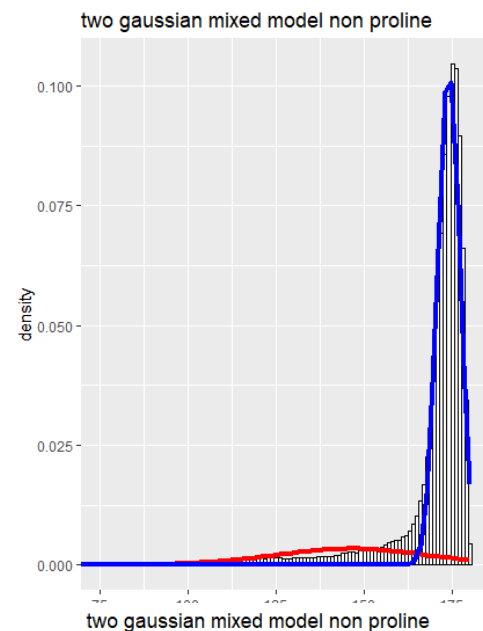
Three gaussian mixed model

```
> summary(non_pro_mixmdl1)
summary of normalmixEM object:
          comp 1    comp 2
lambda   0.18237   0.81763
mu     146.36981 173.97199
sigma   21.55112   3.14432
loglik at estimate:  -412536
```


non proline bend angles with density function

```
> summary(non_pro_mixmdl2)
summary of normalmixEM object:
          comp 1    comp 2
lambda   0.18237   0.81763
mu     146.36981 173.97199
sigma   21.55112   3.14432
loglik at estimate:  -412536
```


two gaussian mixed model non proline

```
> summary(non_pro_mixmdl3)
summary of normalmixEM object:
           comp 1     comp 2     comp 3
lambda   0.128991   0.662806   0.208202
mu     138.857500 174.827311 168.826679
sigma   21.246998   2.437119   4.656927
loglik at estimate:  -407149.1
```


two gaussian mixed model non proline