

R-Lösung zur Übungsblatt 7

Aufgabe 2

```
> attach(Michelson)
> for (i in 1:5){
  a <- all.measurements[Trial==i]
  print(paste("i = ", i))
  print(t.test(a,alternative="two.sided",mu=734.5,
              paired=F,conf.level=0.95))
}

> hist(all.measurements,freq=F,breaks=25)
> b <- sort(all.measurements)
> lines(b,dnorm(b,mean=852.4,sd=sd(all.measurements)),col=2)
```

Aufgabe 5

```
> boxplot(Heights ~ Part, col=c(2,4,2,4))
>#
>#(a)
> t.test(Heights[Part=="Soprano"],Heights[Part=="Alto"],
  alternative="two.sided",mu=0,paired=FALSE,conf.level=0.95)
>#
>#(b)
> t.test(Heights[Part=="Soprano"],Heights[Part=="Bass"],
  alternative="two.sided",mu=0,paired=FALSE,conf.level=0.95)
```