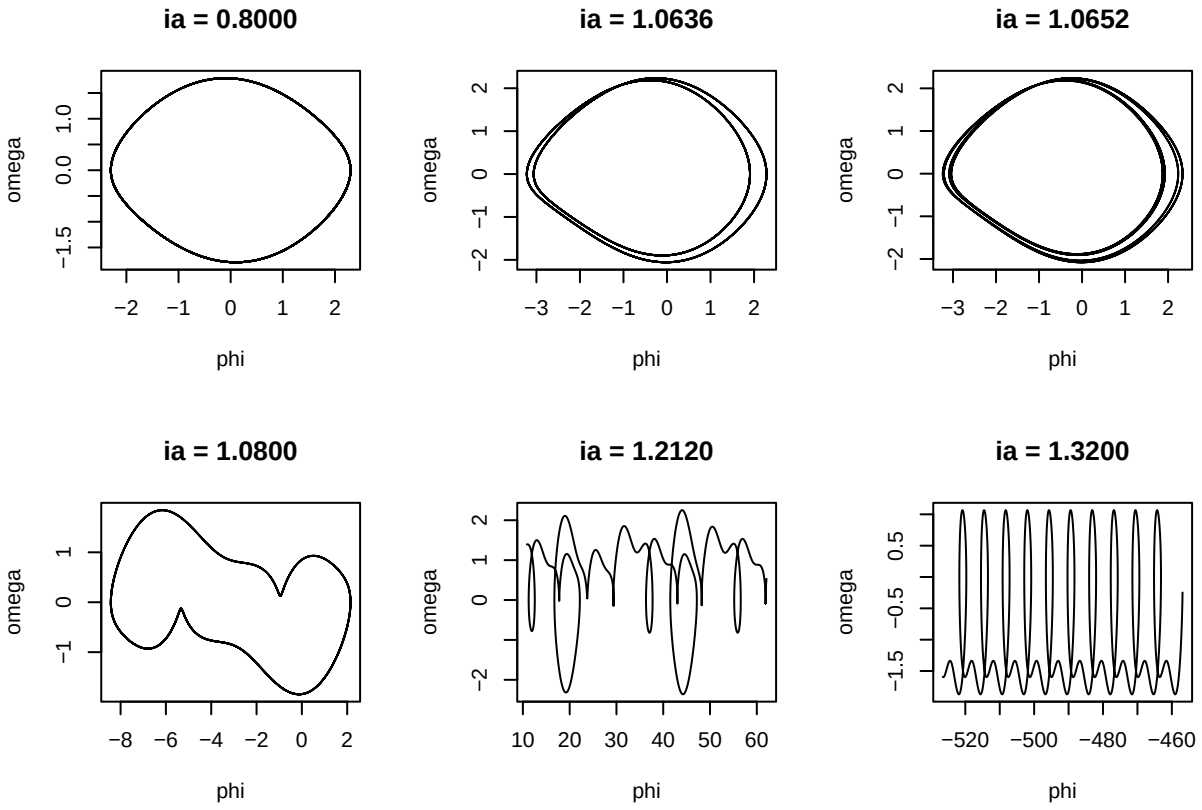
Josephson Simulation

以下所有的图像都是在 $ $ = 0.66 B_c = 0.5 $ 下绘制的。

```
par(mfrow=c(2,3))
ias = c("0.8000","1.0636", "1.0652", "1.0800", "1.2120", "1.3200")

for(ia in ias){
  ddd <- read.csv(paste0("chaos_",ia,".csv"))
  plot(ddd$phi, ddd$omega,
       main=paste0("ia = ", ia),
       xlab = "phi", ylab = "omega", type = "l")
}
```

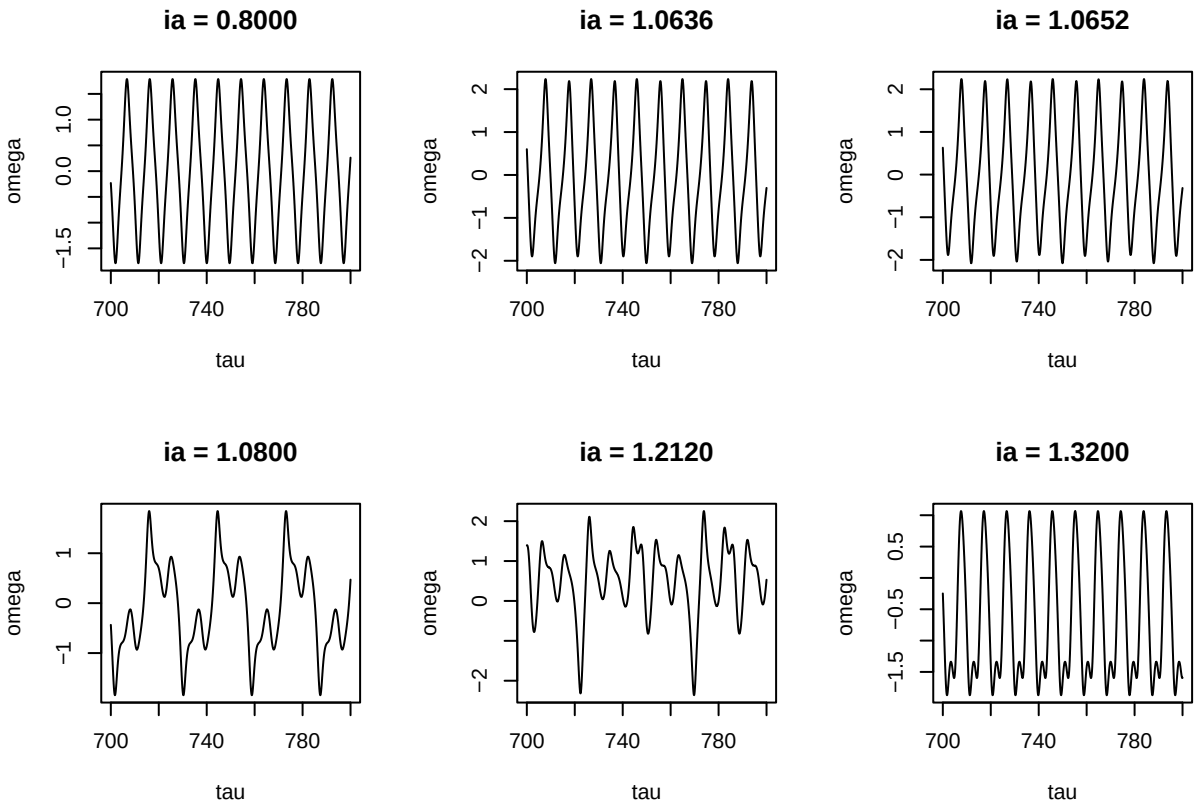



```
par(mfrow=c(2,3))
ias = c("0.8000","1.0636", "1.0652", "1.0800", "1.2120", "1.3200")

for(ia in ias){
  ddd <- read.csv(paste0("chaos_",ia,".csv"))

  plot(ddd$tau, ddd$omega,
```

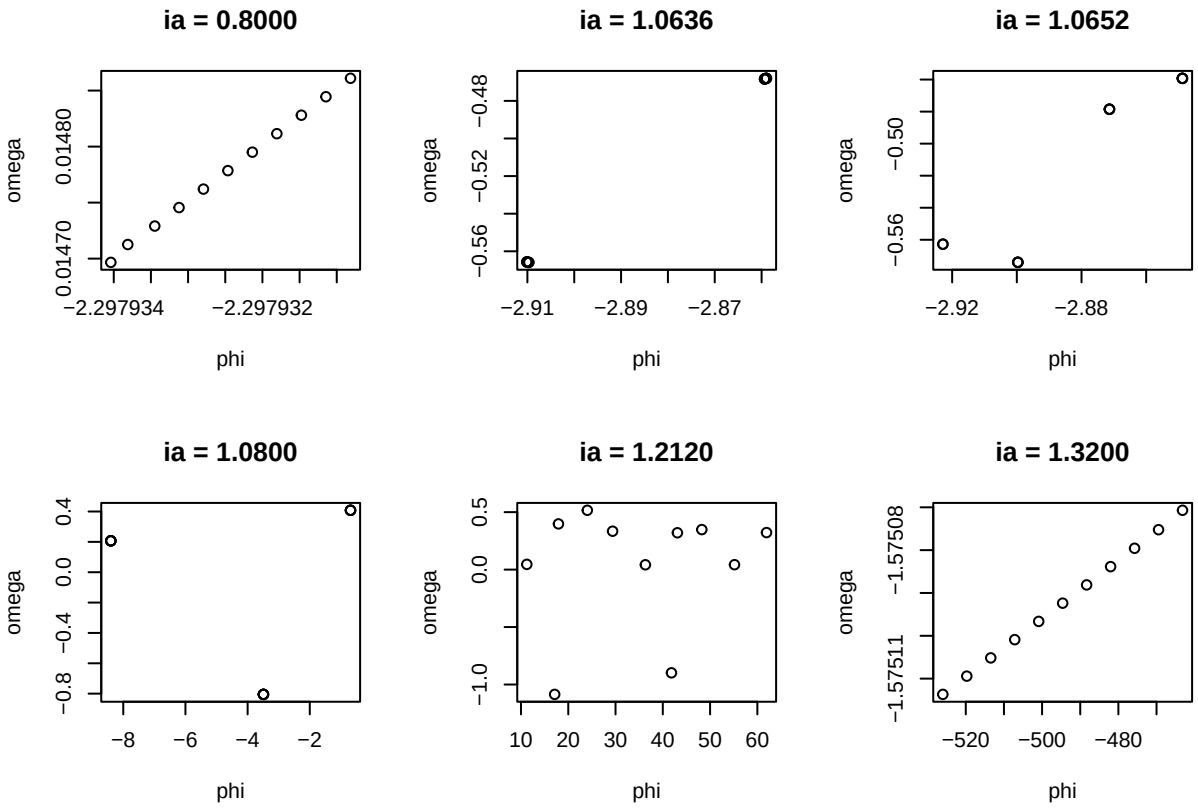
```
       main=paste0("ia = ", ia),
       xlab = "tau", ylab = "omega", type = "l")
}
```




```
par(mfrow=c(2,3))
ias = c("0.8000","1.0636", "1.0652", "1.0800", "1.2120", "1.3200")

for(ia in ias){
  ddd <- read.csv(paste0("chaos_poincare_",ia,".csv"))

  plot(ddd$phi, ddd$omega,
       main=paste0("ia = ", ia),
       xlab = "phi", ylab = "omega", type = "p")
}
```



I-V 图。取 $ B_c = 0.5 $。

```
dd <- read.csv("dc_out.csv")
plot(dd$omega, dd$ib, type="l", xlab = "d(phi)/d(tau)", ylab = "ib", main = "IV diagram B_c = 0.5")
```