## Example 5-10

September 12, 2020

```
[]: # install the following packages and library
    install.packages("pder")
    install.packages("plm")
    library("plm")
[2]: ##-----Block 1------
    #### Example 5-10 ####
    ## -----
    data("RDSpillovers", package = "pder")
    pehs <- pdata.frame(RDSpillovers, index = c("id", "year"))</pre>
    ehsfm <- lny ~ lnl + lnk + lnrd
    # Hausman test without correcting for the use of highly heteroskedastic data
    phtest(ehsfm, pehs, method = "aux")
   Regression-based Hausman test
   data: ehsfm
   chisq = 53.281, df = 3, p-value = 1.597e-11
   alternative hypothesis: one model is inconsistent
[3]: | ##-----Block 2------
    # Hausman test with robust covariance
    phtest(ehsfm, pehs, method = "aux", vcov = vcovHC)
   Regression-based Hausman test, vcov: vcovHC
   data: ehsfm
   chisq = 2.3056, df = 3, p-value = 0.5114
   alternative hypothesis: one model is inconsistent
```