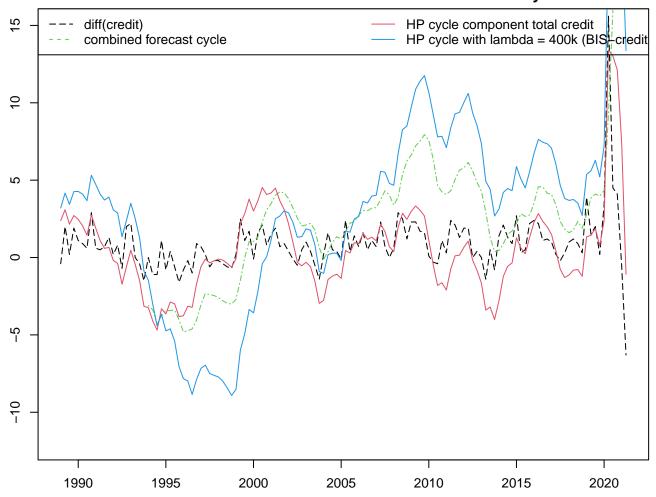
## FR Household Credit Differenced Series & Combined Cycles



**Estimated Cyclical Component** 15 ΗP quad BN HP3k HP400k UC Hamilton combined linear diff(credit) 10 2 0 -5 -10 -15 2015 2020 1990 1995 2000 2005 2010

**Estimated Bates Granger weights of Cyclical Component** 

