Mazurka paper figures

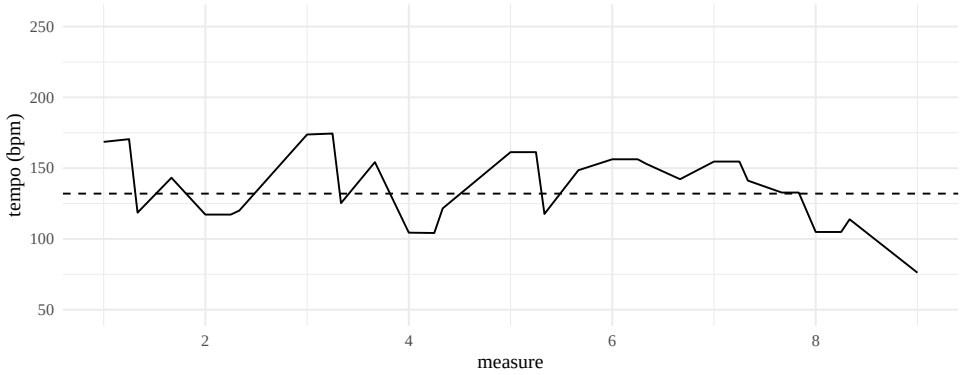
DJM

2/22/2019

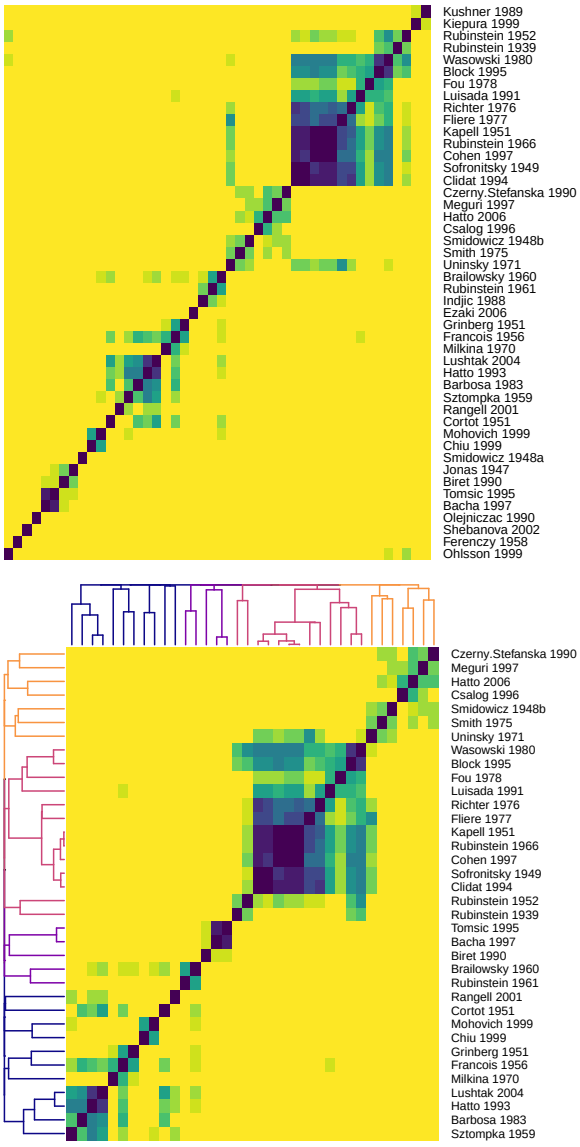
Suggested order

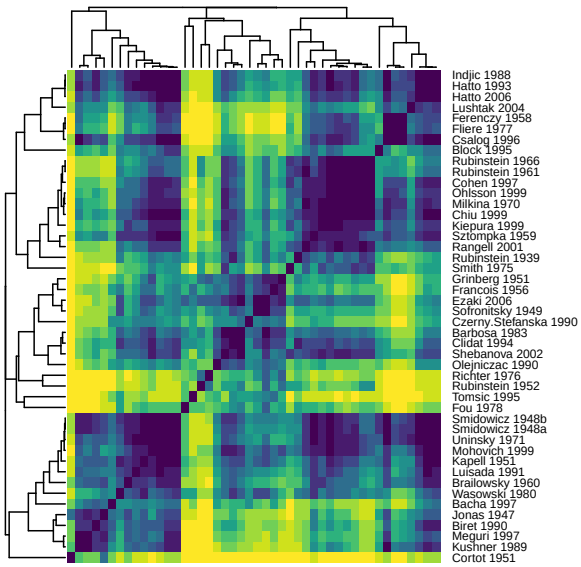
1. Parameter interpretation in Fliere
2. Using parameters to examine two different performances
3. Clustering performances (compare the clusters)
    a. what can we say about the parameters of each cluster? what is different about them?
4. Similar performances (Rubinstein)
5. Model issues

Short tempo

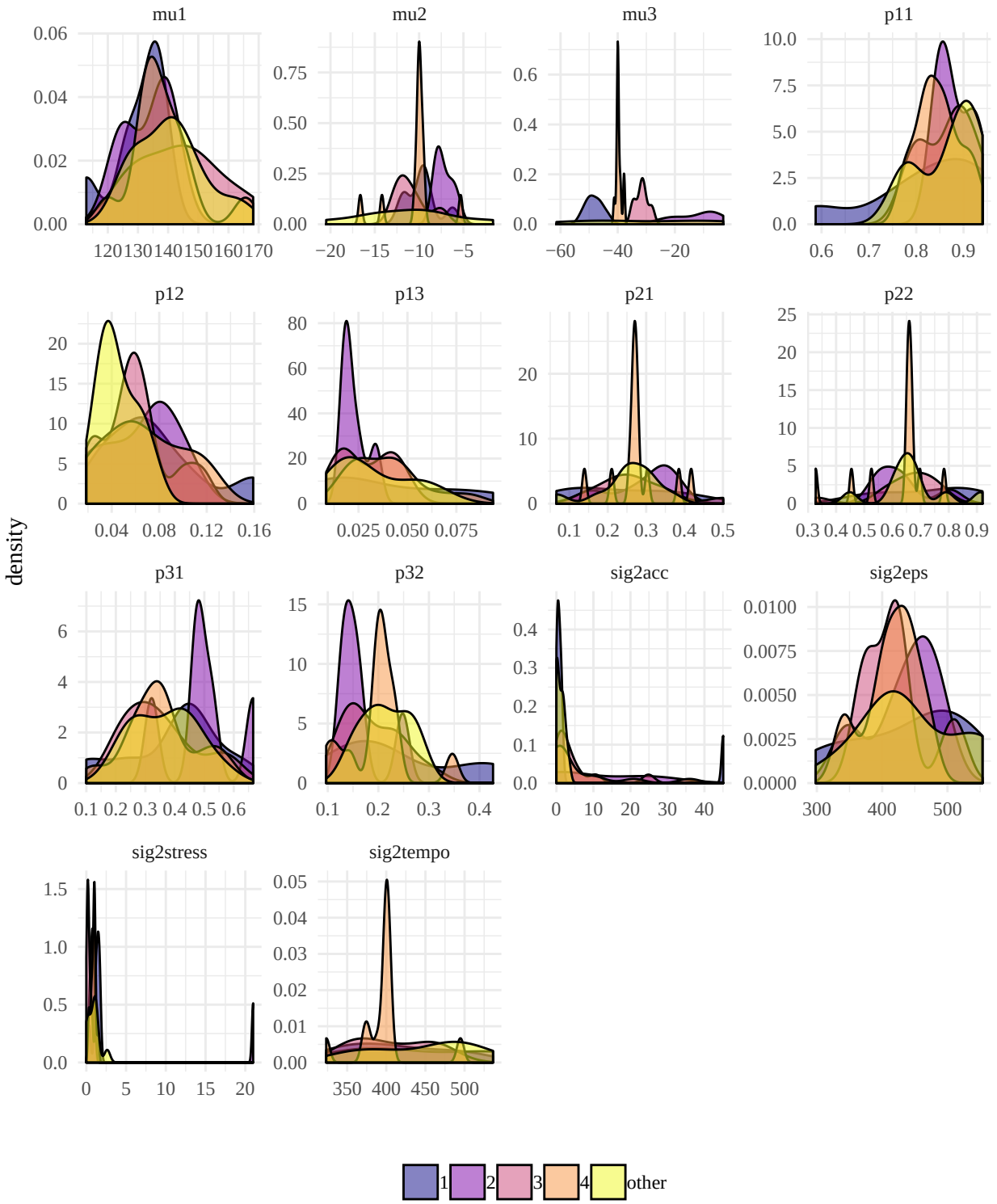


Comparing clusters

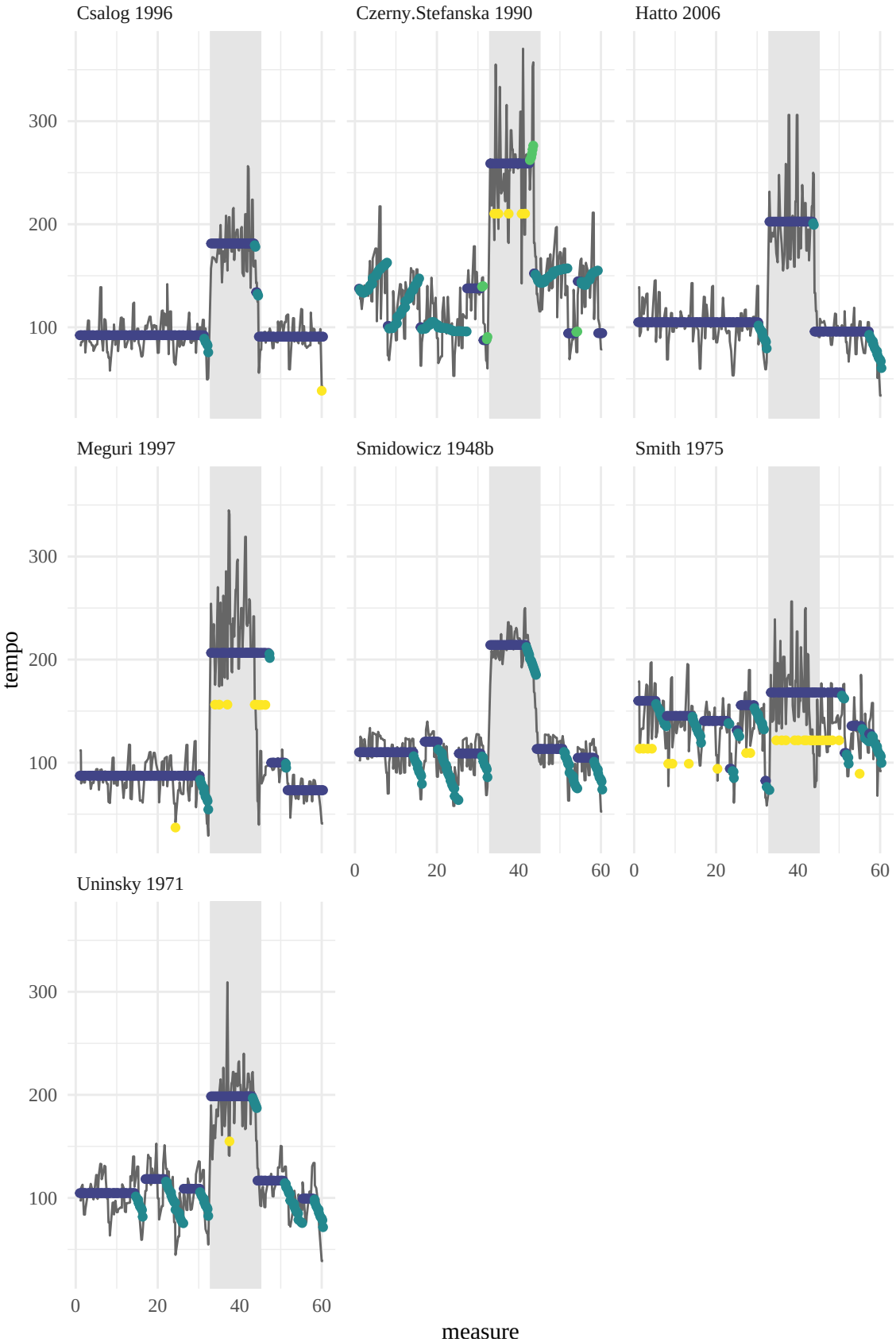


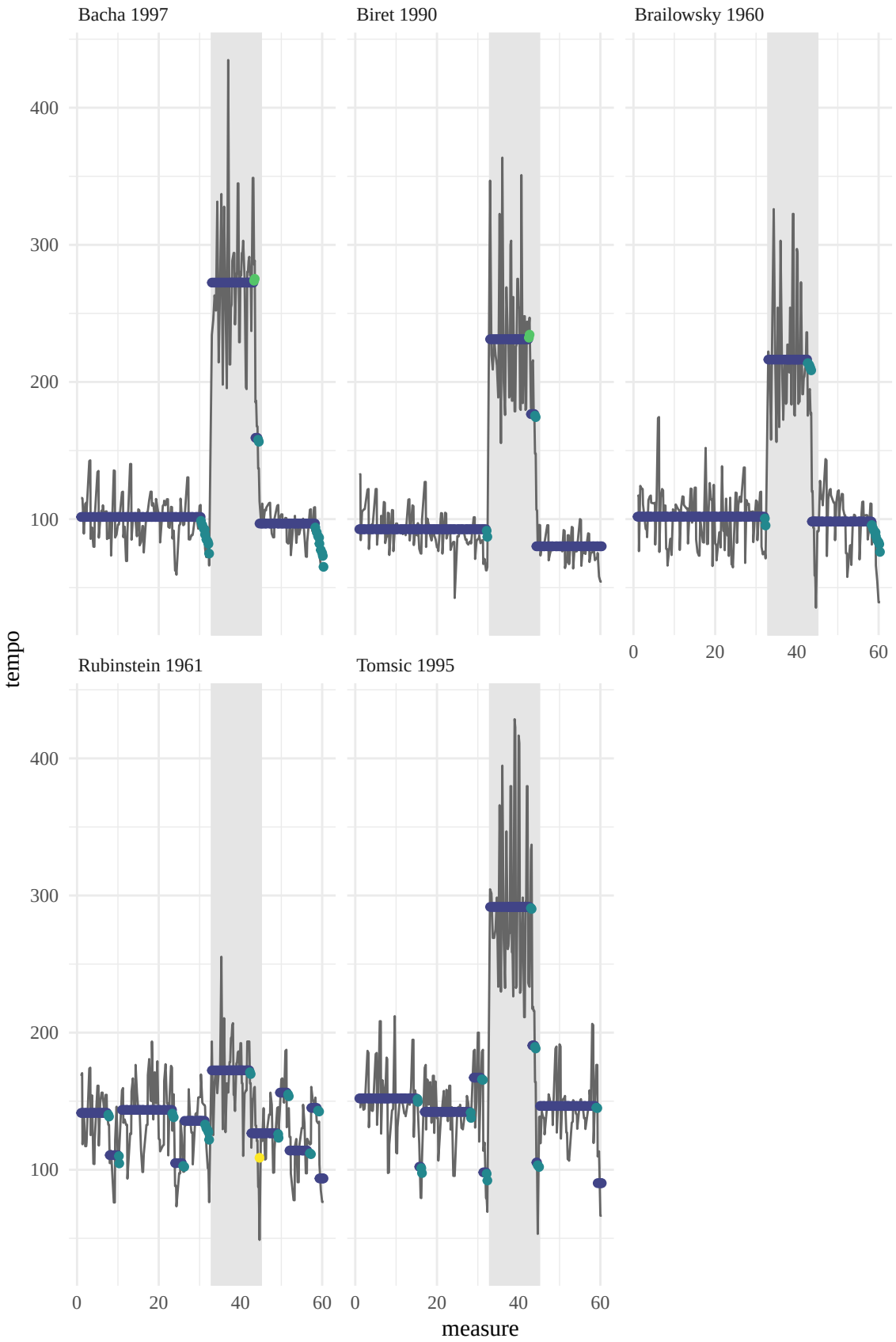

Indjic 1988
Hatto 1993
Hatto 2006
Lushtak 2004
Ferenczy 1958
Fliere 1977
Csalog 1996
Block 1995
Rubinstein 1966
Rubinstein 1961
Cohen 1997
Ohlsson 1999
Milkina 1970
Chiu 1999
Kiepura 1999
Sztompka 1959
Rangell 2001
Rubinstein 1939
Smith 1975
Grinberg 1951
Francois 1956
Ezaki 2006
Sofronitsky 1949
Czerny.Stefanska 1990
Barbosa 1983
Clidat 1994
Shebanova 2002
Olejniczac 1990
Richter 1976
Rubinstein 1952
Tomsic 1995
Fou 1978
Smidowicz 1948b
Smidowicz 1948a
Uninsky 1971
Mohovich 1999
Kapell 1951
Luisada 1991
Brailowsky 1960
Wasowski 1980
Bacha 1997
Jonas 1947
Biret 1990
Meguri 1997
Kushner 1989
Cortot 1951

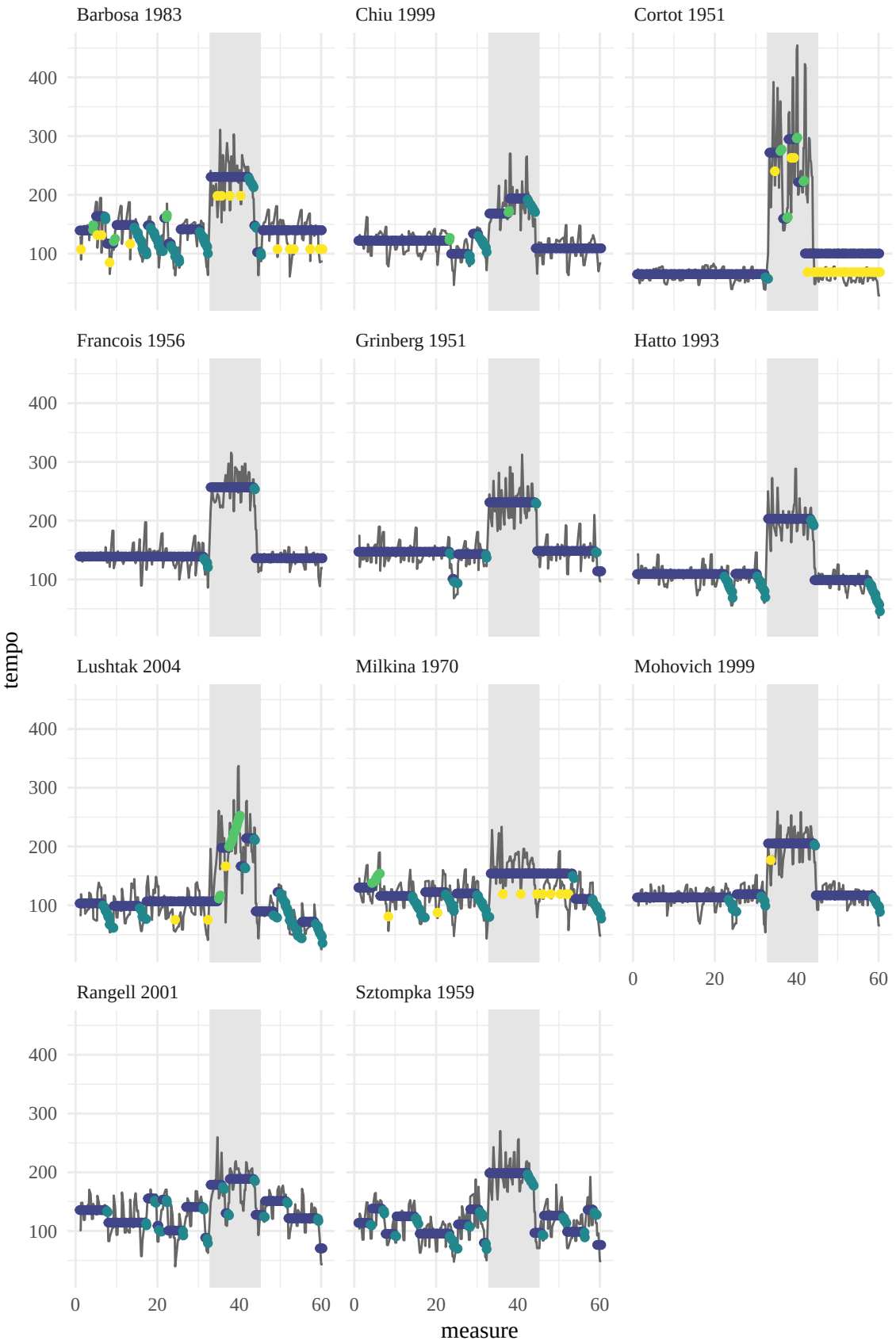
Cluster densities

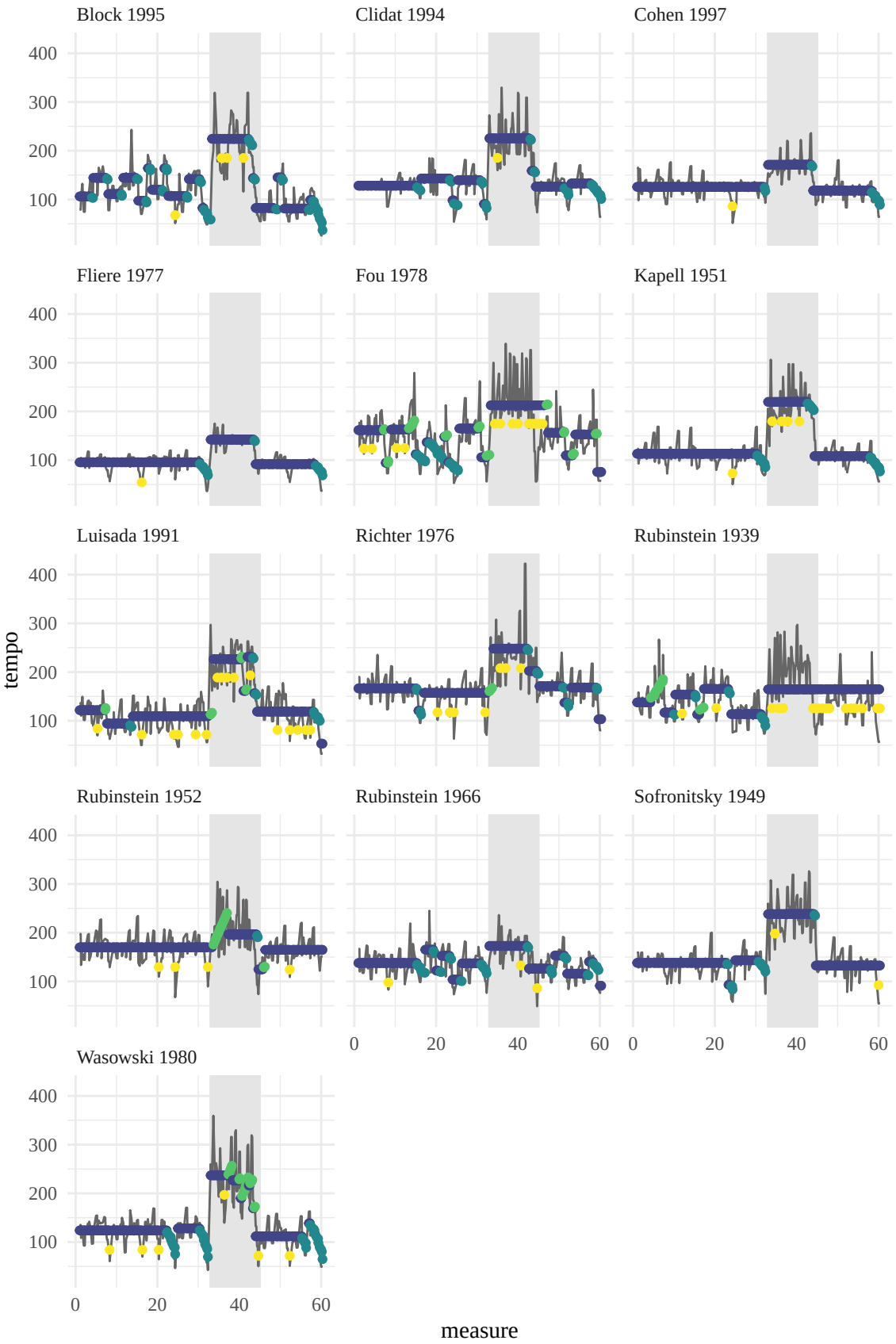


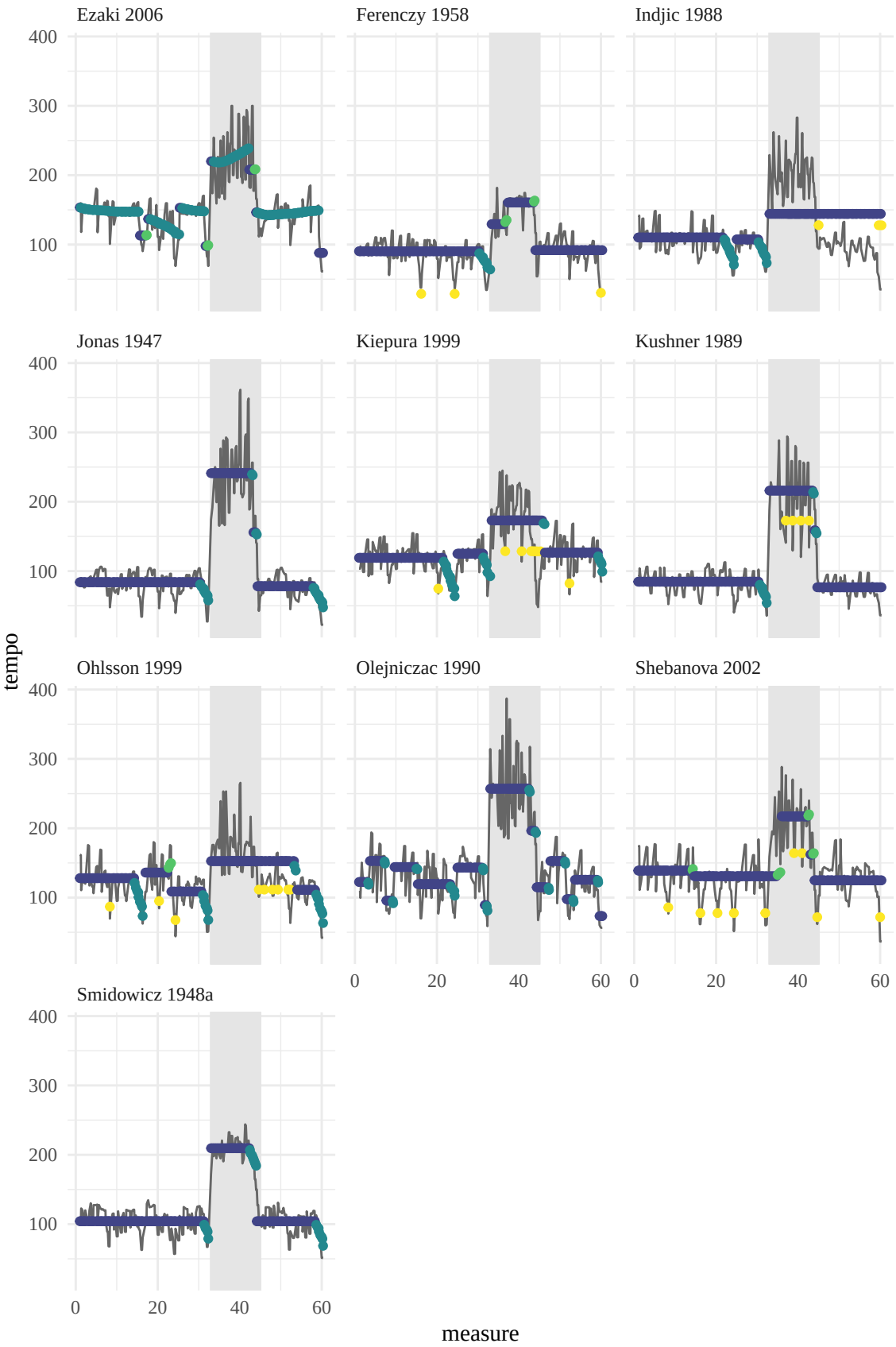
Plotting performances

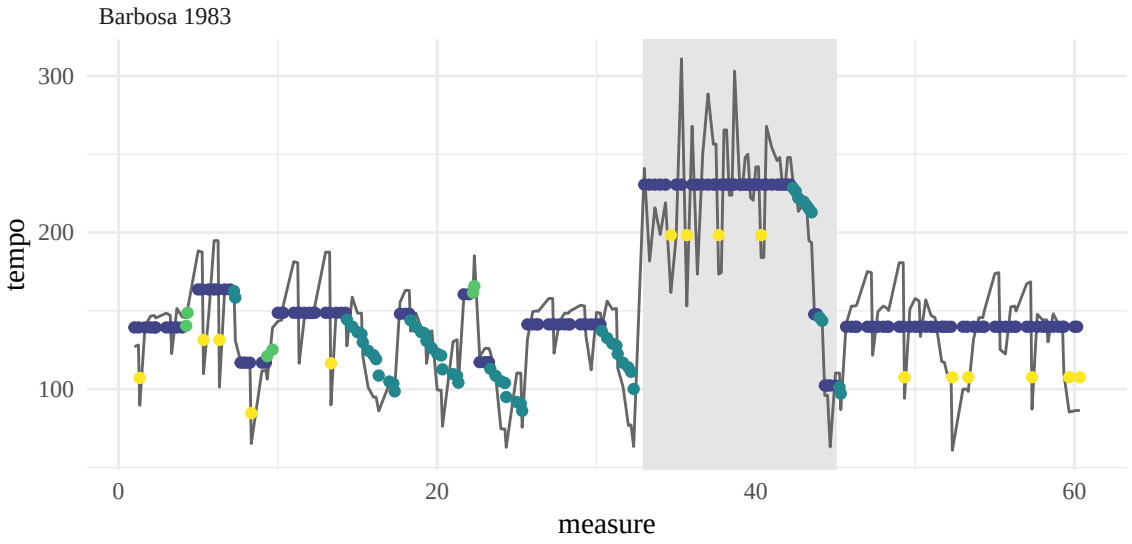


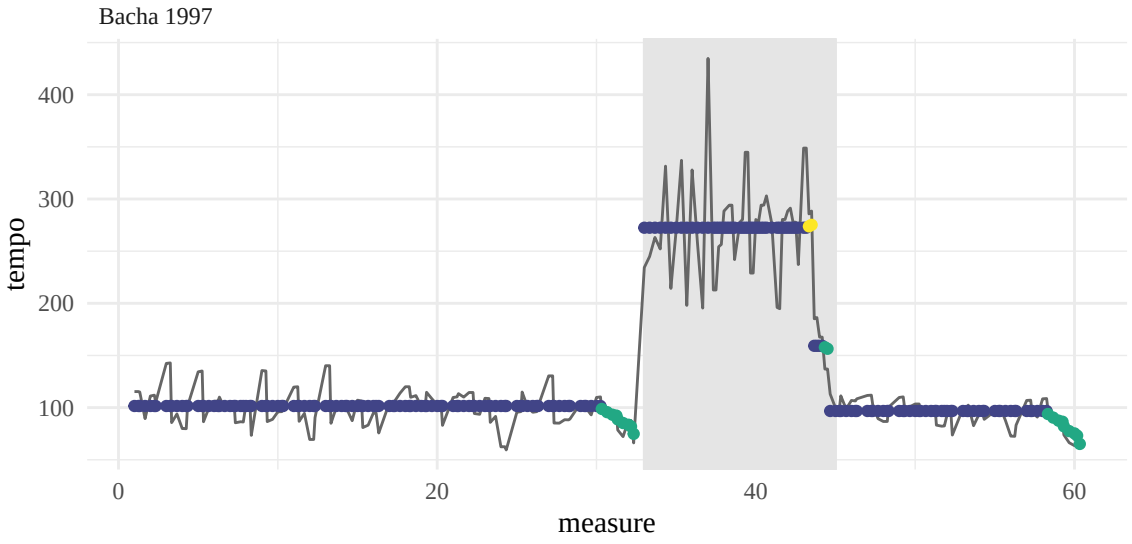

Bacha 1997
Biret 1990
Brailowsky 1960
Rubinstein 1961
Tomsic 1995
tempo
measure
400
300
200
100
0
20
40
60

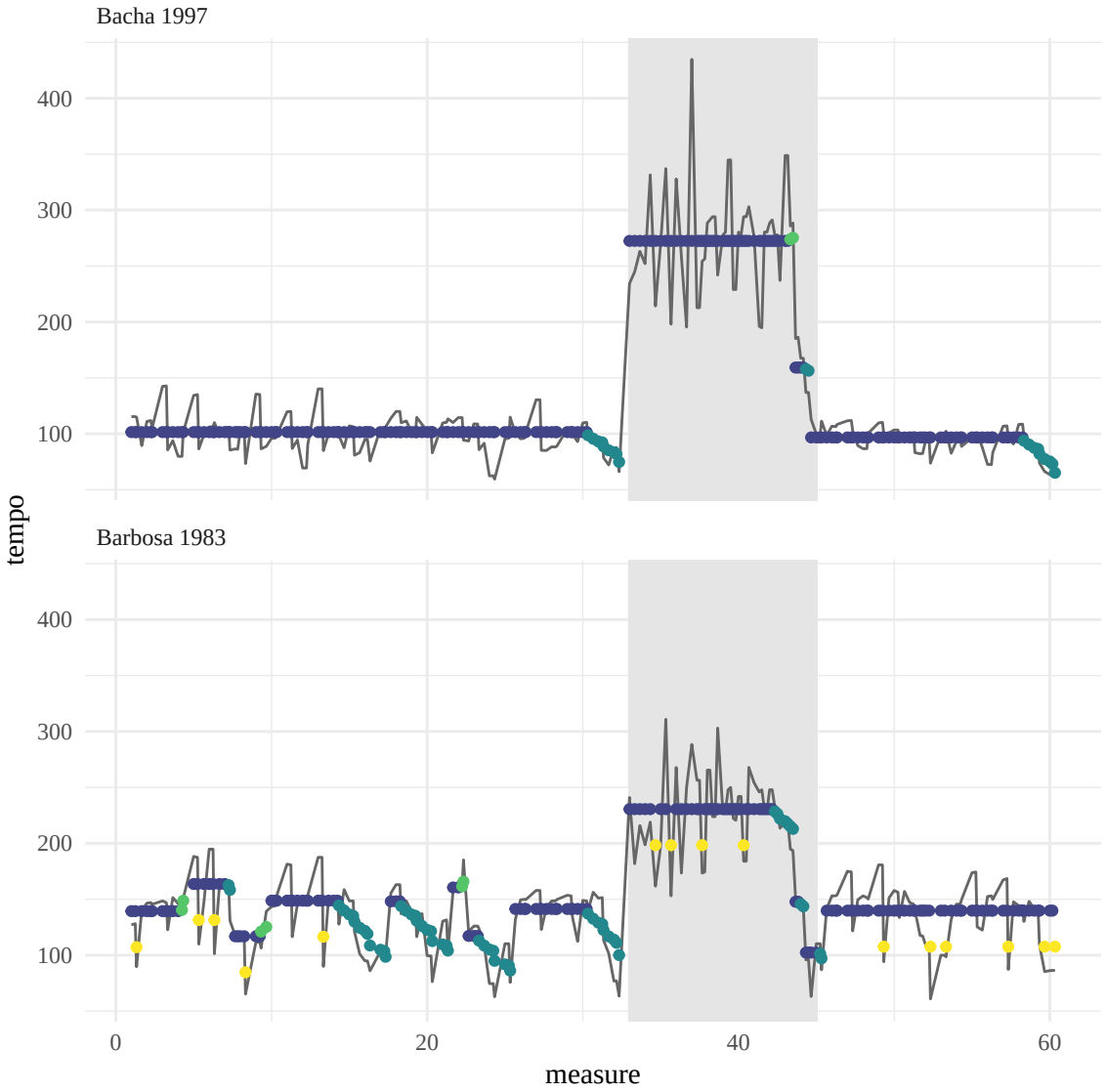

Barbosa 1983
Chiu 1999
Cortot 1951
Francois 1956
Grinberg 1951
Hatto 1993
Lushtak 2004
Milkina 1970
Mohovich 1999
Rangell 2001
Sztompka 1959
tempo
measure
100
200
300
400
0
20
40
60


Block 1995
Clidat 1994
Cohen 1997
Fliere 1977
Fou 1978
Kapell 1951
Luisada 1991
Richter 1976
Rubinstein 1939
Rubinstein 1952
Rubinstein 1966
Sofronitsky 1949
Wasowski 1980
tempo
measure
100
200
300
400
0
20
40
60


Ezaki 2006
Ferenczy 1958
Indjic 1988
Jonas 1947
Kiepura 1999
Kushner 1989
Ohlsson 1999
Olejniczac 1990
Shebanova 2002
Smidowicz 1948a
tempo
measure
400
300
200
100
0
20
40
60

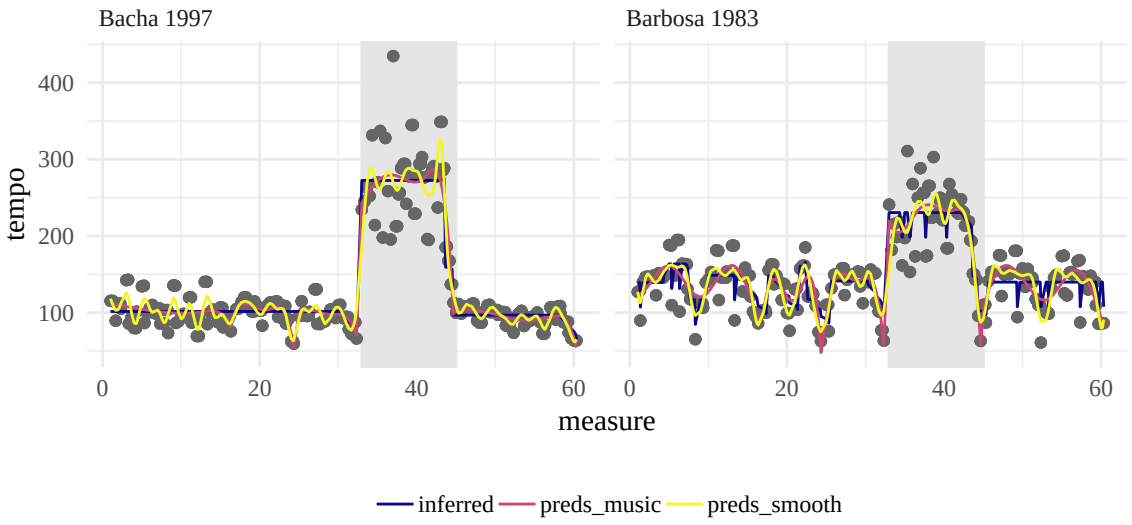

Barbosa 1983
300
200
100
tempo
0
20
40
60
measure


Bacha 1997
400
300
200
100
tempo
0
20
40
60
measure

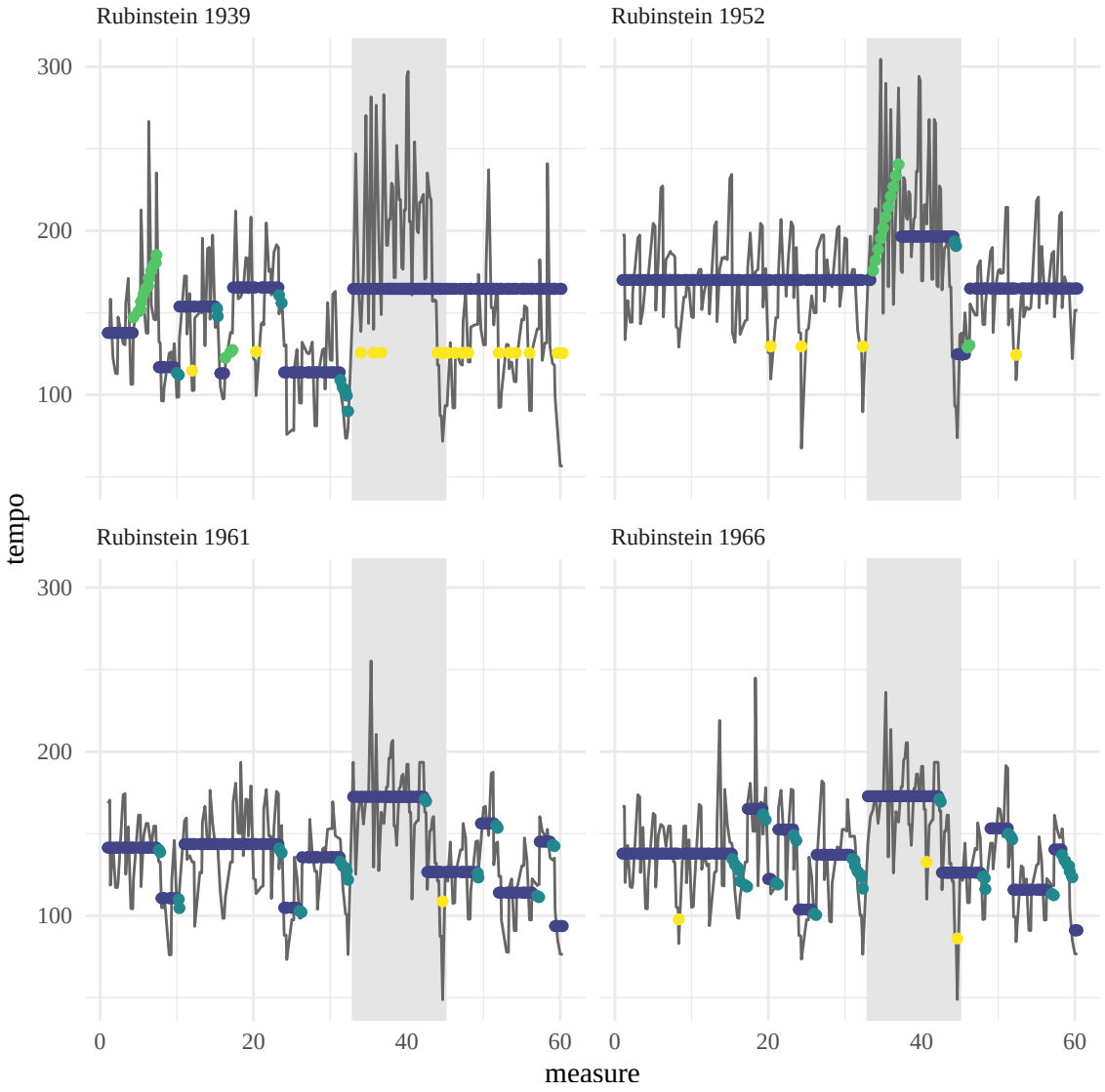


Different smoothing

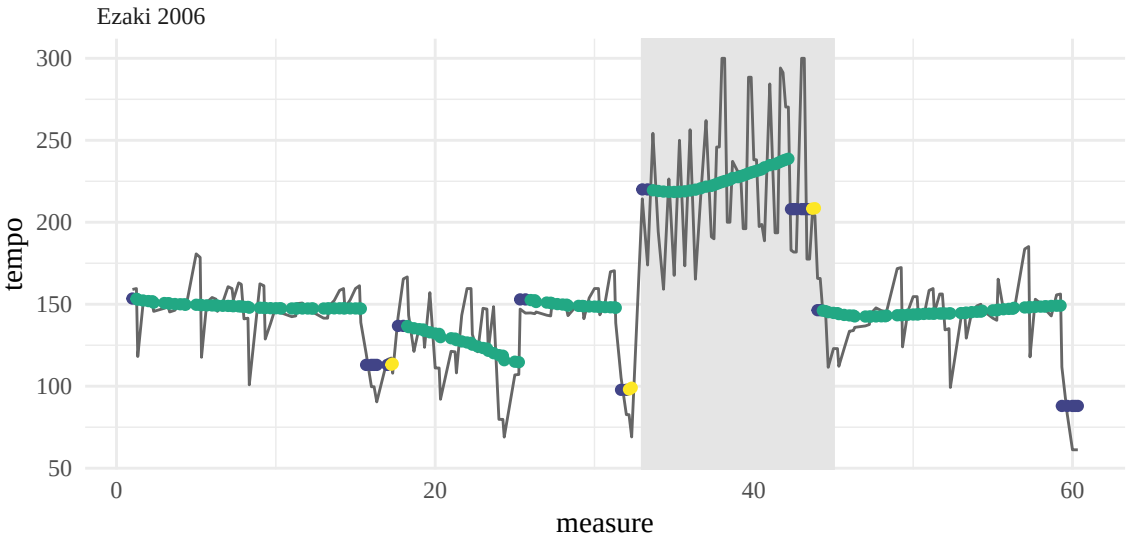
Try splines, replicating knots, l1tf?


Bacha 1997
Barbosa 1983
tempo
400
300
200
100
0
20
40
60
measure
inferred
preds_music
preds_smooth

Similar performances



Bad estimation



Problems with the model

- Problem with retransitioning to state 1
- states 2 and 3 aren't constrained to always decrease/increase, only in mean
- state 4 may not always emphasize a slow down
- previous 2 have to do with Gaussian assumptions
- necessity for strong priors
- but priors are on parameters, not on path (how would we want this to change?)