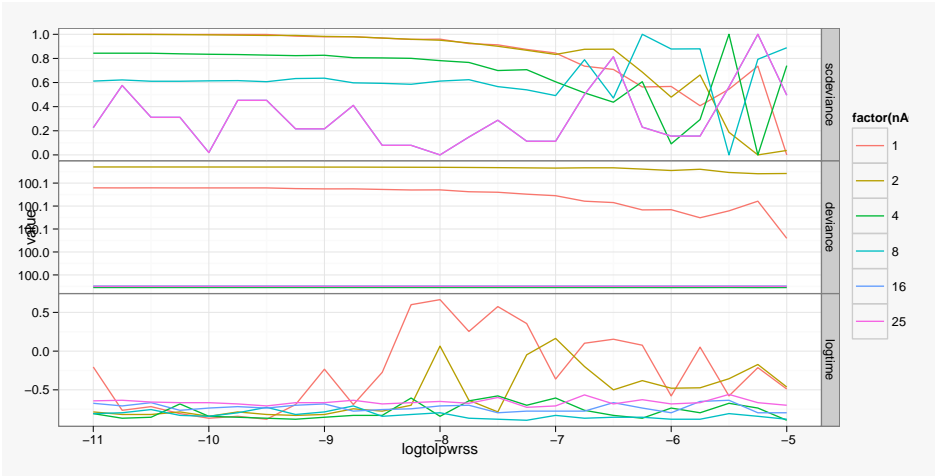


Get data:

# 1 lme4Eigen

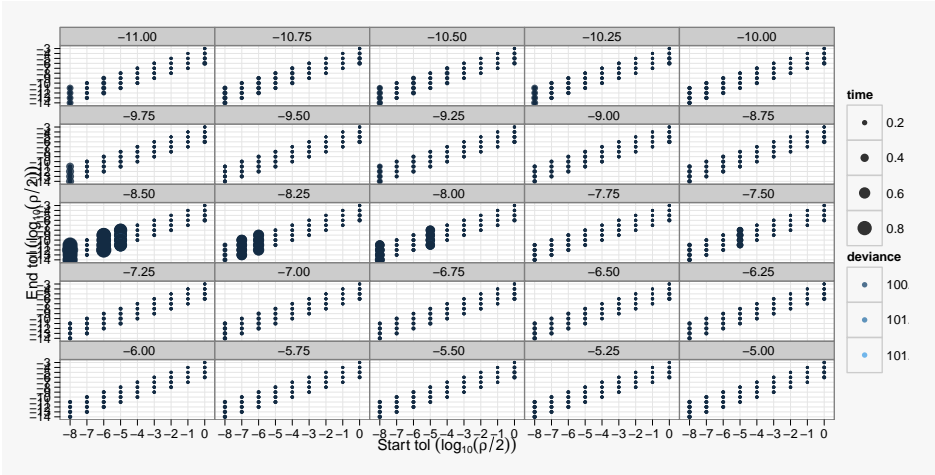
## 1.1 Nelder-Mead

Performance as a function of tolPwrss, nAGQ:



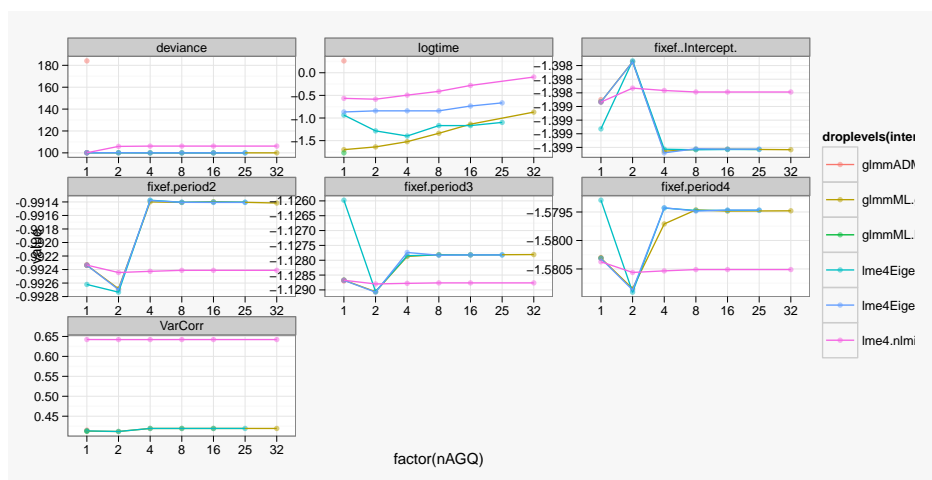
## 1.2 bobyqa

Performance as a function of tolPwrss, rho-beg, rho-end:



## 2 Comparison of all approaches

lme4Eigen uses default settings here ( $\text{tolPwrss}=1\text{e-}11$ ,  $\text{rhobeg}=2\text{e-}4$ ,  $\text{rhoend}=2\text{e-}7$ ).



Without lme4:

