

fit\_betadisp

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**Fitting Dispersions of Beta = 4, N = 20**

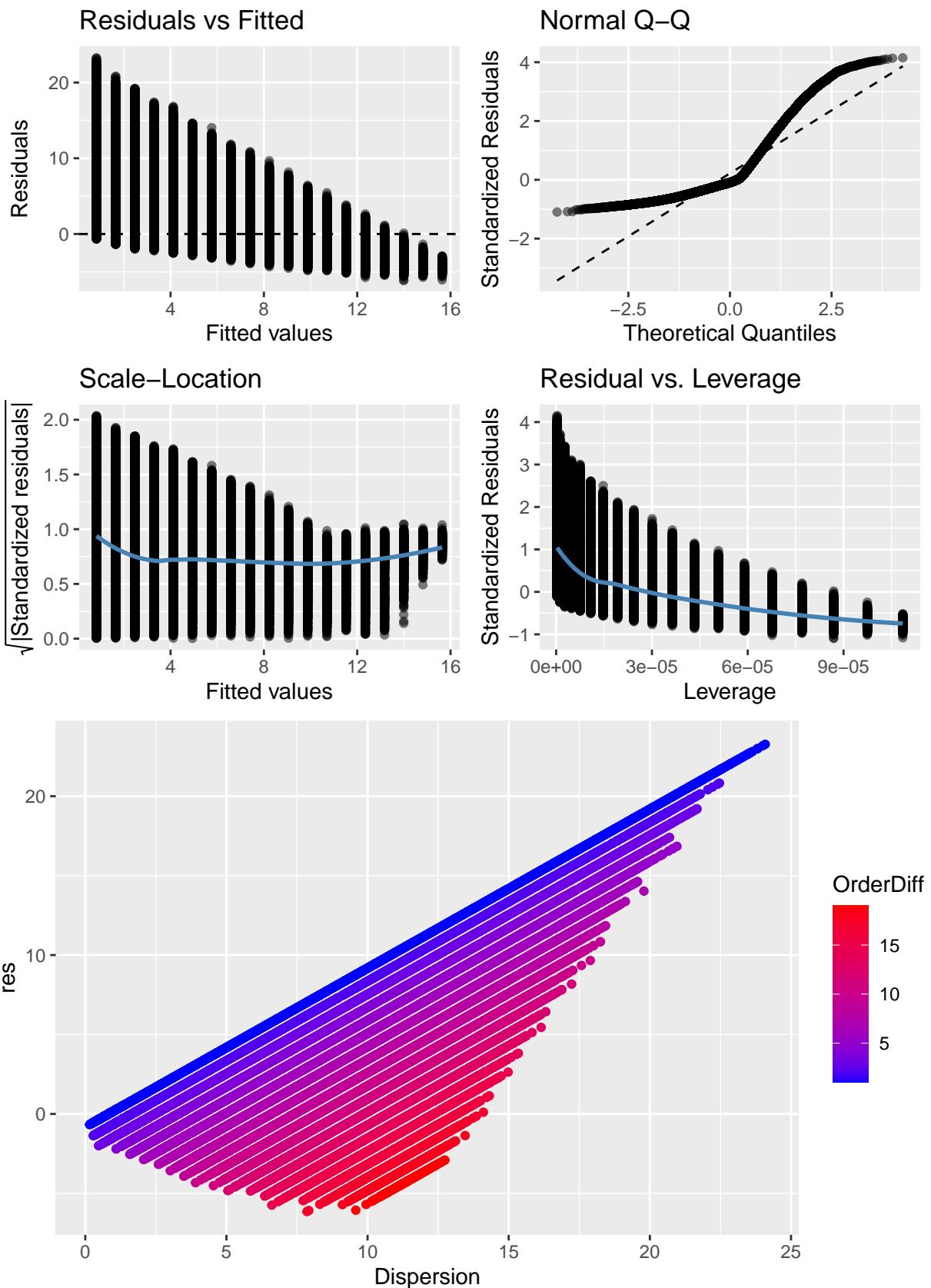
## The Ensemble



## Linear Model

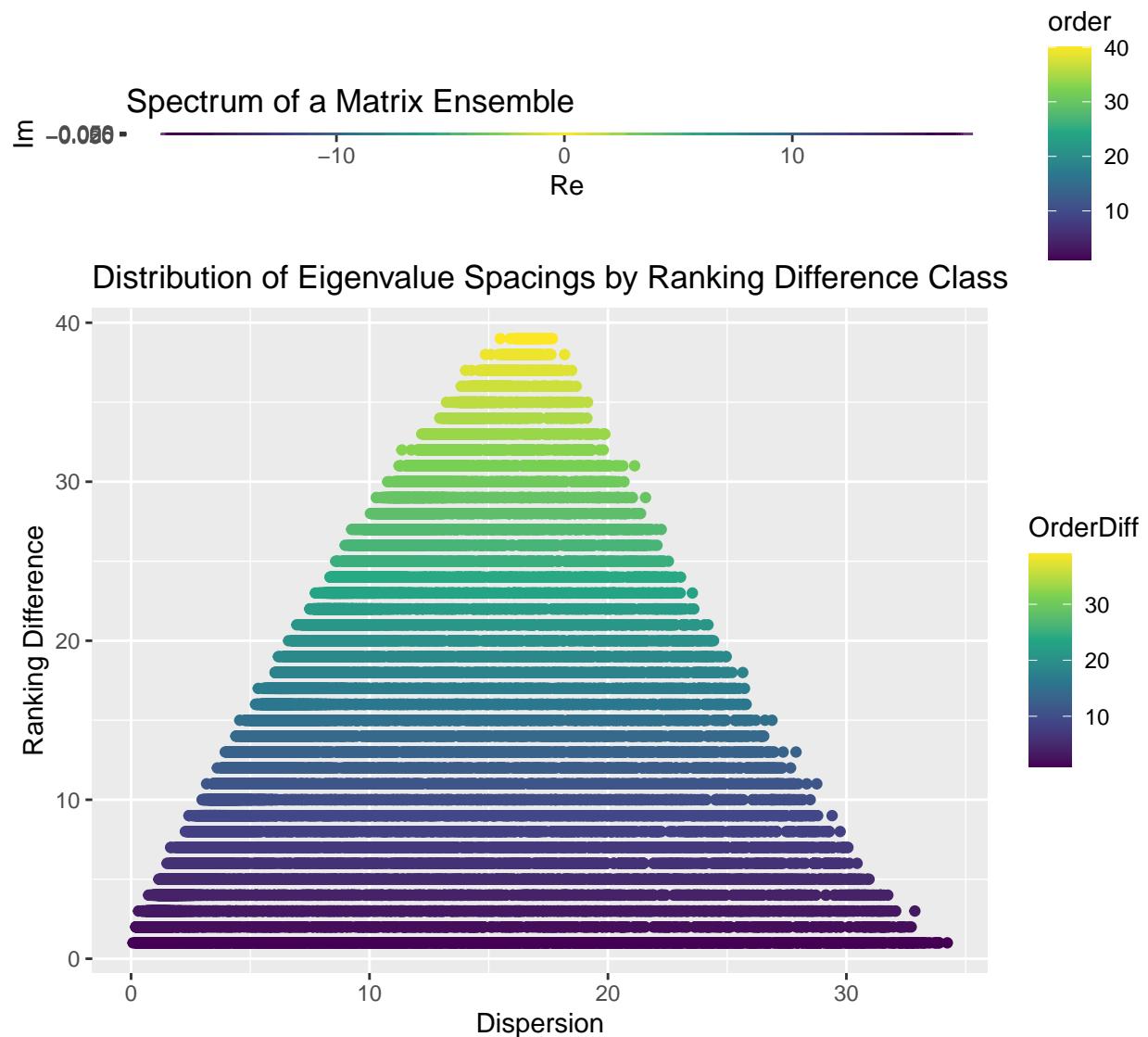
```
##
## Call:
## lm(formula = I(Dispersion - intercept) ~ 0 + OrderDiff, data = disp_ens)
##
## Residuals:
##      Min       1Q   Median       3Q      Max 
## -6.1389 -2.0079 -0.5239  4.4713 23.2638 
## 
## Coefficients:
##             Estimate Std. Error t value Pr(>|t|)    
## OrderDiff  0.823172   0.003228    255 <2e-16 ***
## ---
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1
## 
## Residual standard error: 5.886 on 47499 degrees of freedom
```

```
## Multiple R-squared:  0.5779, Adjusted R-squared:  0.5779
## F-statistic: 6.504e+04 on 1 and 47499 DF,  p-value: < 2.2e-16
```



Fitting Dispersions of Beta = 4, N = 50

The Ensemble



## Linear Model

```
##  
## Call:  
## lm(formula = I(Dispersion - intercept) ~ 0 + OrderDiff, data = disp_ens)  
##  
## Residuals:  
##      Min    1Q Median    3Q   Max  
## -7.635 -2.754 -0.673  6.110 33.646  
##  
## Coefficients:  
##             Estimate Std. Error t value Pr(>|t|)  
## OrderDiff  0.585585   0.002542   230.4   <2e-16 ***  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 8.3 on 38999 degrees of freedom  
## Multiple R-squared:  0.5764, Adjusted R-squared:  0.5764  
## F-statistic: 5.306e+04 on 1 and 38999 DF, p-value: < 2.2e-16
```

