

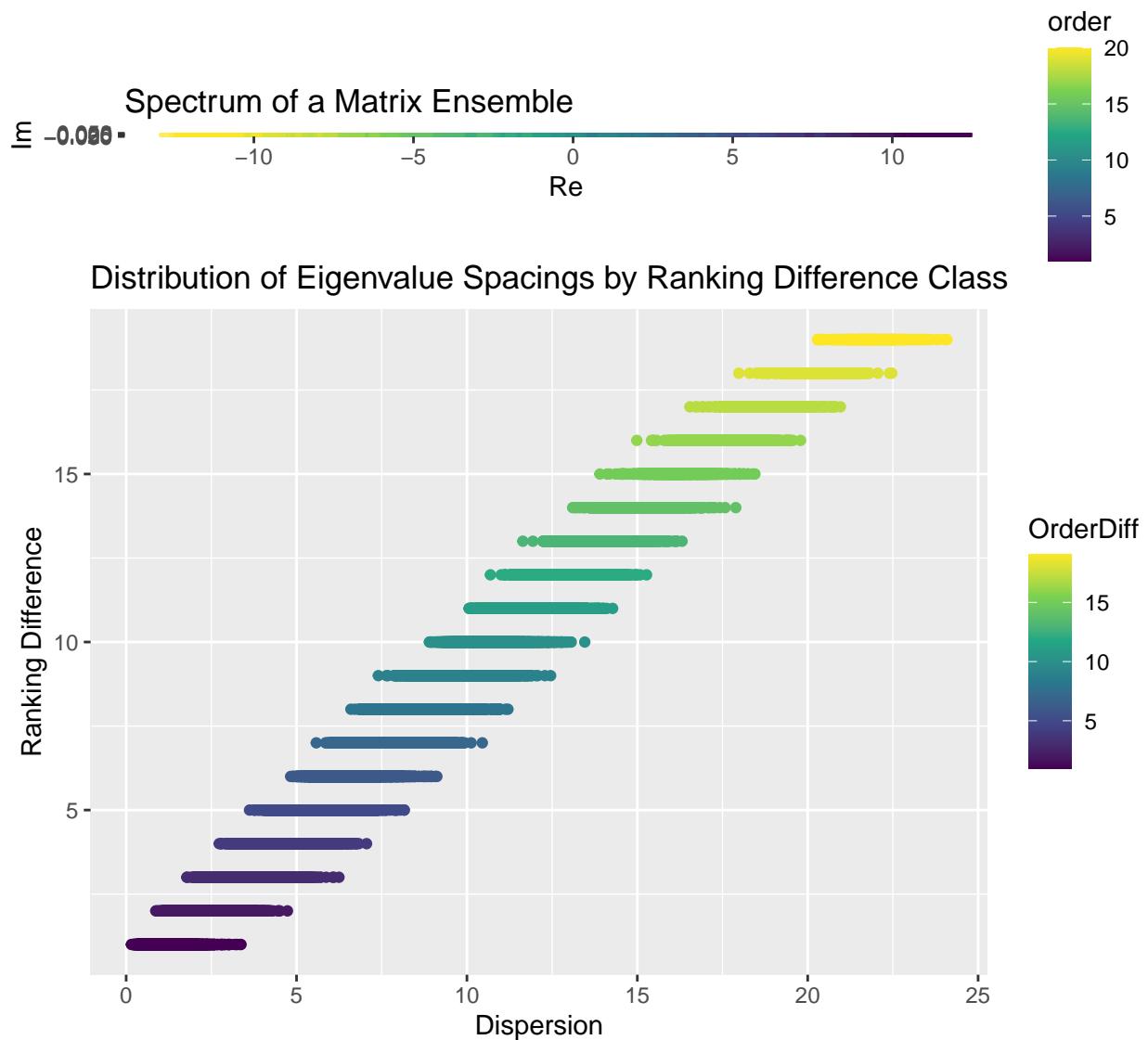
fit\_betadisp

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

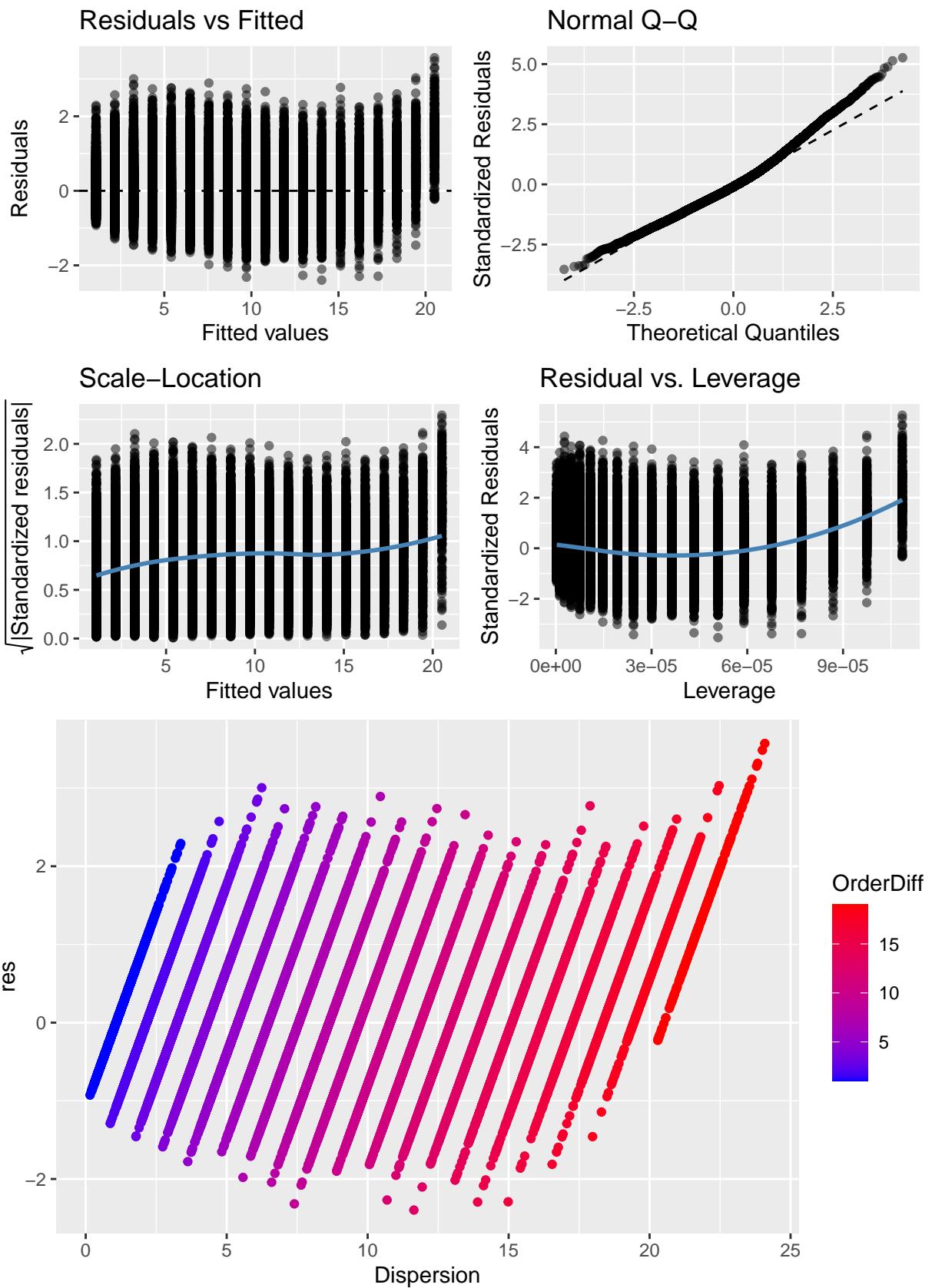
## The Ensemble



## Linear Model

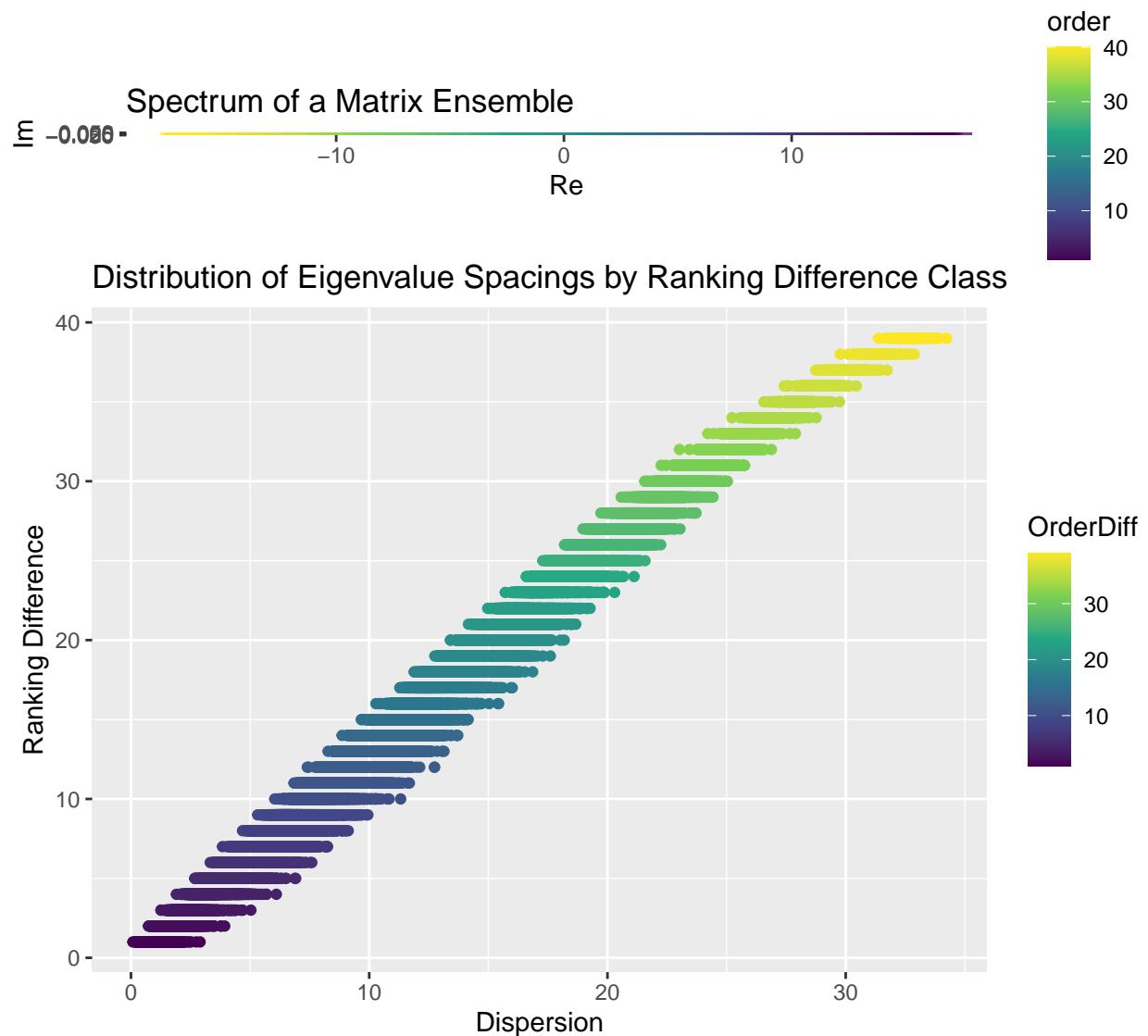
```
##  
## Call:  
## lm(formula = I(Dispersion - intercept) ~ 0 + OrderDiff, data = disp_ens)  
##  
## Residuals:  
##      Min       1Q   Median       3Q      Max  
## -2.3973 -0.4572 -0.0656  0.3884  3.5710  
##  
## Coefficients:  
##                 Estimate Std. Error t value Pr(>|t|)  
## OrderDiff 1.0797888  0.0003719    2903 <2e-16 ***  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 0.6782 on 47499 degrees of freedom
```

```
## Multiple R-squared:  0.9944, Adjusted R-squared:  0.9944
## F-statistic: 8.43e+06 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  
## -2.0364 -0.5406 -0.1128  0.4305  4.2084  
##  
## Coefficients:  
##             Estimate Std. Error t value Pr(>|t|)  
## OrderDiff 0.7698349  0.0002423   3177    <2e-16 ***  
## ---  
## Signif. codes:  0 '***' 0.001 '**' 0.01 '*' 0.05 '.' 0.1 ' ' 1  
##  
## Residual standard error: 0.7911 on 38999 degrees of freedom  
## Multiple R-squared:  0.9962, Adjusted R-squared:  0.9962  
## F-statistic: 1.009e+07 on 1 and 38999 DF, p-value: < 2.2e-16
```

