

Developer

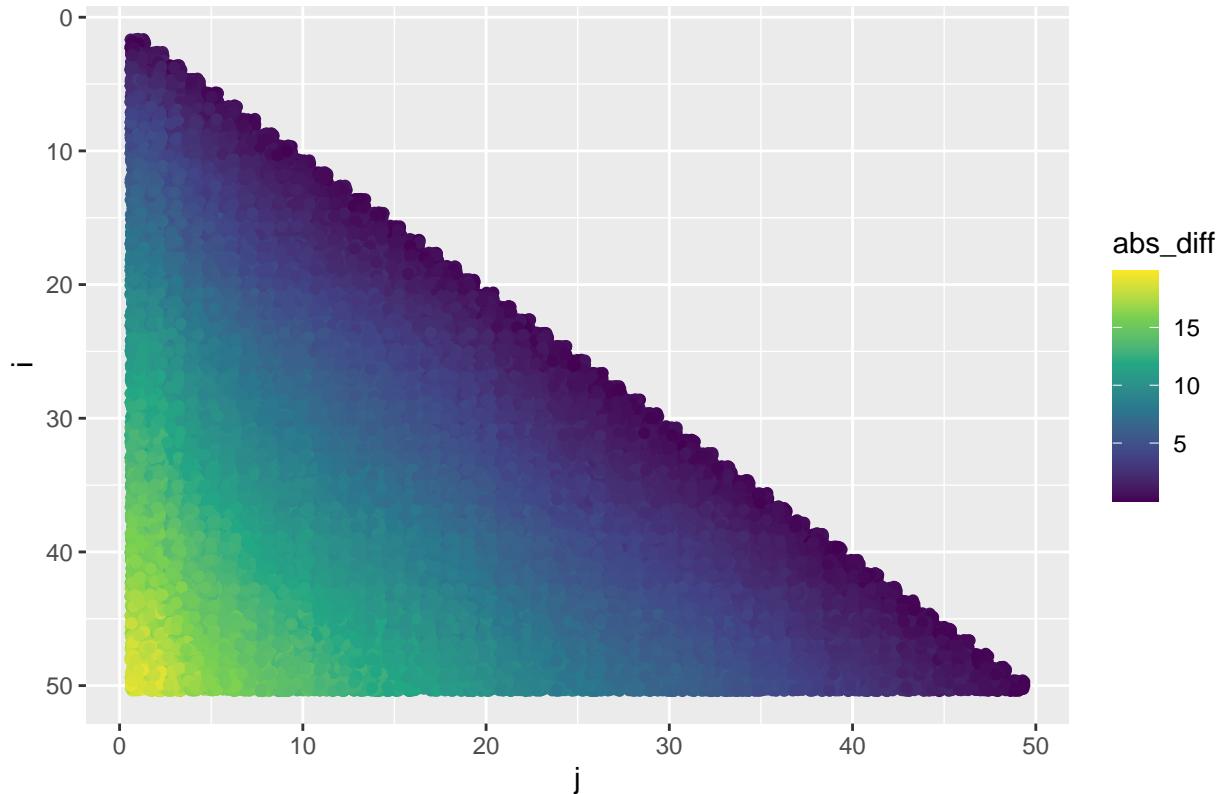
Taqi

```
# Random matrices and ensembles
P <- RM_norm(50, symm = T)

dispersion.table <- function(dispersion, component){
  # Plot parameters
  jitt <- 0.4
  # Plot
  disp_ens %>%
    ggplot(mapping = aes(x = j, y = i, color = {{ component }})) +
    geom_jitter(width = jitt, height = jitt) +
    scale_color_viridis_c() +
    scale_y_reverse() #+
    #geom_abline(intercept = 0, slope = 1)
}

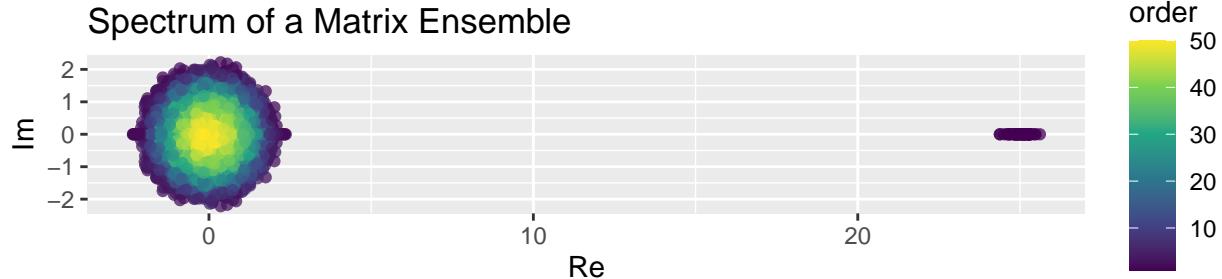
ens <- RME_beta(50, beta = 4, size = 50)
disp_ens <- ens %>% dispersion(pairs = "lower")
(disp_ens %>% dispersion.table(component = abs_diff)) + labs(title = "Eigenvalue Pair Difference of Norm
```

Eigenvalue Pair Difference of Norms for Beta = 4



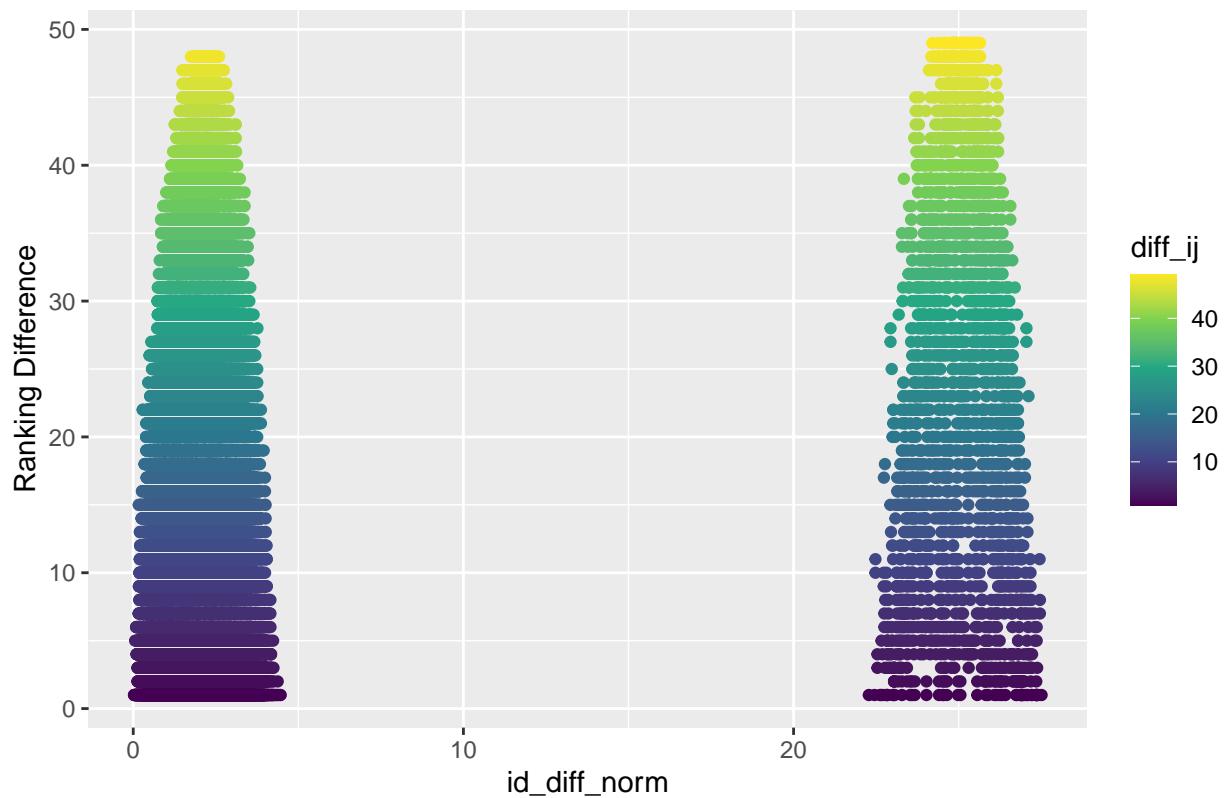
```
ens <- RME_unif(50, min = 0, max = 1, size = 50)
disp_ens <- ens %>% dispersion(pairs = "lower")

ens %>% spectrum.scatterplot()
```



```
disp_ens %>% dispersion.scatterplot(metric = "id_diff_norm")
```

Distribution of Eigenvalue Spacings by Ranking Difference Class



```
#(disp_ens %>% dispersion.table(component = id_diff_norm)) + labs(title = "Eigenvalue Pair Difference o
```