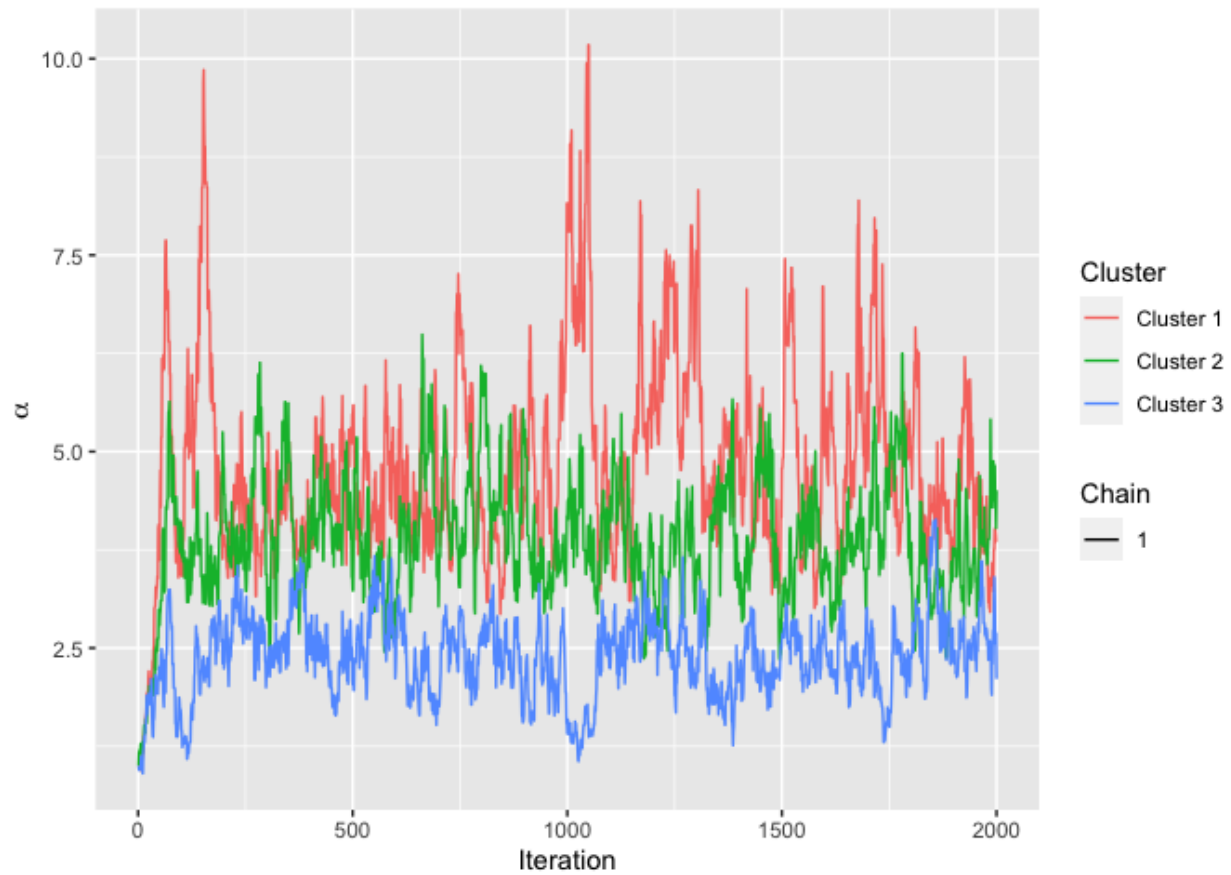


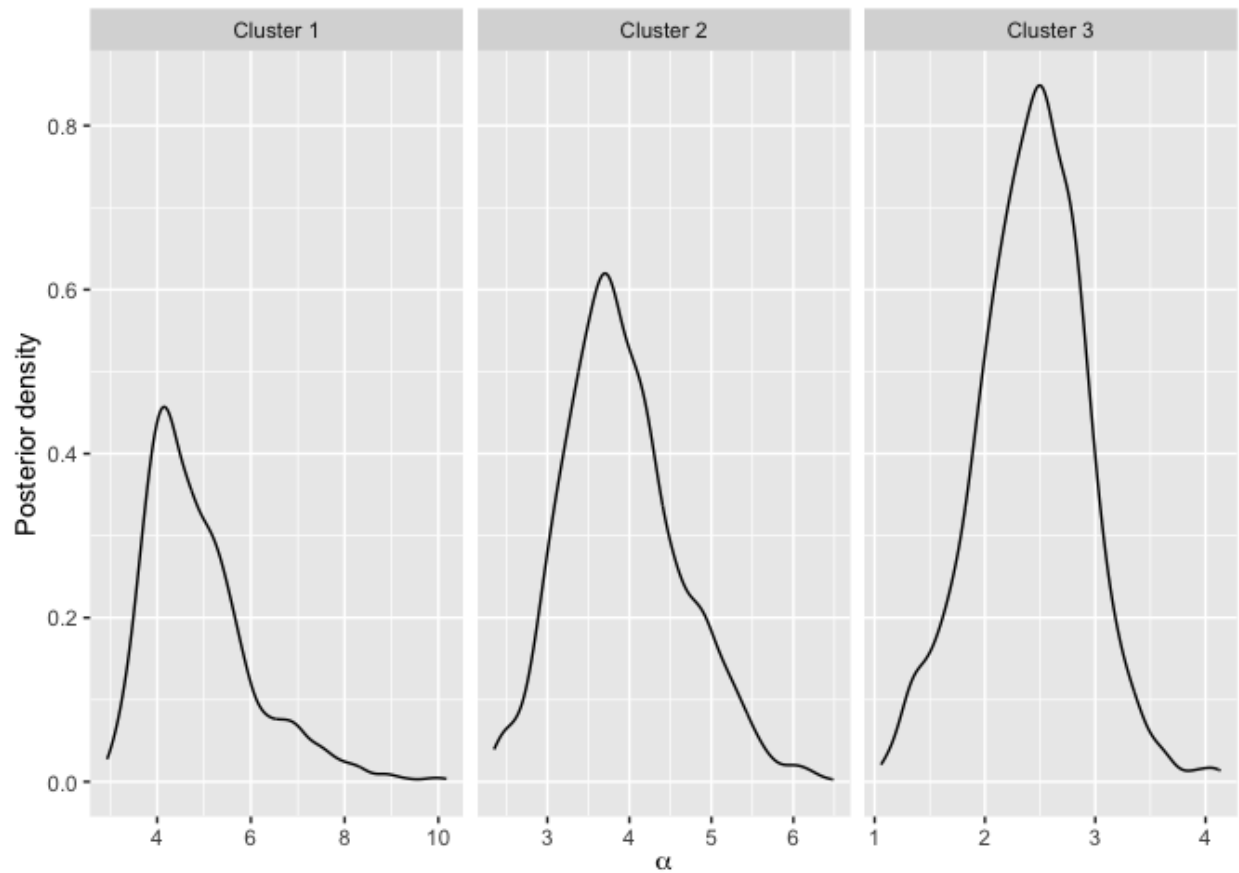
```

library(BayesMallows)
sessionInfo()
#> R version 4.3.2 (2023-10-31)
#> Platform: aarch64-apple-darwin20 (64-bit)
#> Running under: macOS Sonoma 14.1.2
#>
#> Matrix products: default
#> BLAS: /Library/Frameworks/R.framework/Versions/4.3-arm64/Resources/lib/libRblas.0.dylib
#> LAPACK: /Library/Frameworks/R.framework/Versions/4.3-arm64/Resources/lib/libRlapack.dylib; LAPACK v
#>
#> locale:
#> [1] en_US.UTF-8/en_US.UTF-8/en_US.UTF-8/C/en_US.UTF-8/en_US.UTF-8
#>
#> time zone: Europe/Oslo
#> tzcode source: internal
#>
#> attached base packages:
#> [1] stats graphics grDevices utils datasets methods base
#>
#> other attached packages:
#> [1] BayesMallows_1.5.0.9000
#>
#> loaded via a namespace (and not attached):
#> [1] styler_1.10.2 digest_0.6.33 fastmap_1.1.1 xfun_0.41
#> [5] magrittr_2.0.3 glue_1.6.2 R.utils_2.12.3 knitr_1.45
#> [9] htmltools_0.5.7 rmarkdown_2.25 lifecycle_1.0.4 Rdpack_2.6
#> [13] cli_3.6.1 R.methodsS3_1.8.2 vctrs_0.6.5 reprex_2.0.2
#> [17] withr_2.5.2 compiler_4.3.2 R.oo_1.25.0 R.cache_0.16.0
#> [21] rbibutils_2.2.16 purrr_1.0.2 rstudioapi_0.15.0 tools_4.3.2
#> [25] evaluate_0.23 Rcpp_1.0.11.2 yaml_2.3.7 rlang_1.1.2
#> [29] fs_1.6.3
mod <- compute_mallows(
  data = setup_rank_data(cluster_data),
  model_options = set_model_options(n_clusters = 3)
)
assess_convergence(mod)

```



```
mod$burnin <- 100  
plot(mod)
```



```
compute_posterior_intervals(mod, parameter = "rho")
#>   parameter cluster item mean median hpdi central_interval
#> 1      rho Cluster 1 Item 1  1      1 [1]                [1]
#> 2      rho Cluster 1 Item 2  3      3 [3]                [3]
#> 3      rho Cluster 1 Item 3  4      4 [4]                [4]
#> 4      rho Cluster 1 Item 4  2      2 [2]                [2]
#> 5      rho Cluster 1 Item 5  5      5 [5]                [5]
#> 6      rho Cluster 2 Item 1  1      1 [1]                [1]
#> 7      rho Cluster 2 Item 2  2      2 [2]                [2]
#> 8      rho Cluster 2 Item 3  3      3 [3]                [3]
#> 9      rho Cluster 2 Item 4  4      4 [4]                [4]
#> 10     rho Cluster 2 Item 5  5      5 [5]                [5]
#> 11     rho Cluster 3 Item 1  1      1 [1]                [1,2]
#> 12     rho Cluster 3 Item 2  2      2 [2]                [1,2]
#> 13     rho Cluster 3 Item 3  5      5 [5]                [5]
#> 14     rho Cluster 3 Item 4  4      4 [4]                [3,4]
#> 15     rho Cluster 3 Item 5  3      3 [3]                [3,4]
compute_consensus(mod)
#>   cluster ranking item cumprob
#> 1 Cluster 1      1 Item 1 1.0000000
#> 2 Cluster 1      2 Item 4 1.0000000
#> 3 Cluster 1      3 Item 2 1.0000000
#> 4 Cluster 1      4 Item 3 1.0000000
#> 5 Cluster 1      5 Item 5 1.0000000
#> 6 Cluster 2      1 Item 1 1.0000000
```

```
#> 7 Cluster 2      2 Item 2 1.0000000
#> 8 Cluster 2      3 Item 3 1.0000000
#> 9 Cluster 2      4 Item 4 1.0000000
#> 10 Cluster 2     5 Item 5 1.0000000
#> 11 Cluster 3     1 Item 1 0.9573684
#> 12 Cluster 3     2 Item 2 1.0000000
#> 13 Cluster 3     3 Item 5 0.9563158
#> 14 Cluster 3     4 Item 4 0.9968421
#> 15 Cluster 3     5 Item 3 1.0000000
```

Created on 2023-12-11 with reprex v2.0.2