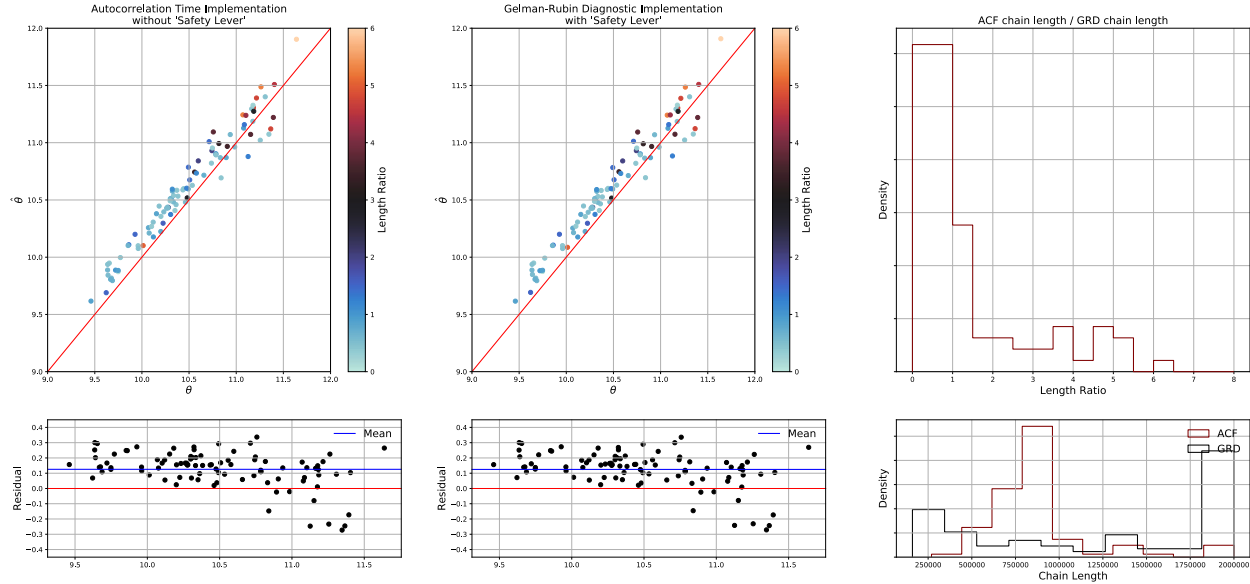


# GQPMC Report

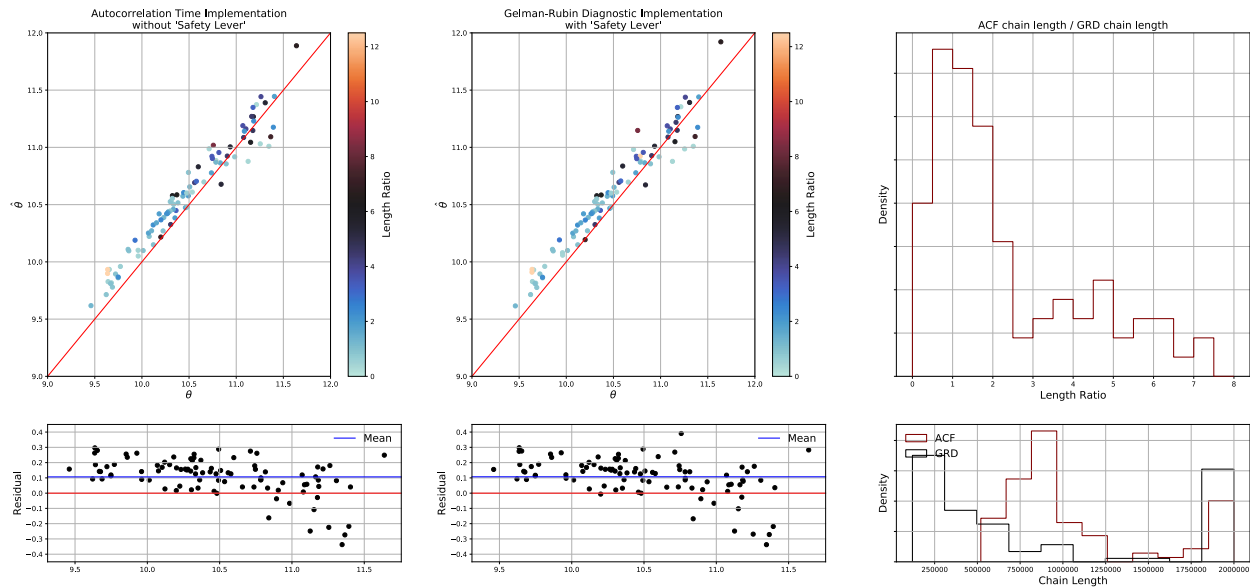
James Kyubin Kwon

## 1. Adaptive Convergence Metric Replacement & Performance Comparison

ACF & GRD comparison - Photometry



ACF & GRD comparison - Spectrophotometry



### Result Summary:

- For both spectrophotometry and photometry, Gelman-Rubin diagnostic and autocorrelation time estimation showed almost the same performance in terms of inference accuracy.
- The lengths of chains which used GRD were bit spurious as they had large variance. The length variance was lower in the autocorrelation time estimation method.