

## 4.1 Moderately statistically significant discrepancies

### 4.1.1 Component 8 : Uncorrelated noise. This function applies from 1643 until 1716

The following discrepancies between the prior and posterior distributions for this component have been detected.

- The qq plot has an unexpectedly large positive deviation from equality ( $x = y$ ). This discrepancy has an estimated  $p$ -value of 0.012.

The positive deviation in the qq-plot can indicate heavy positive tails if it occurs at the right of the plot or light negative tails if it occurs as the left.

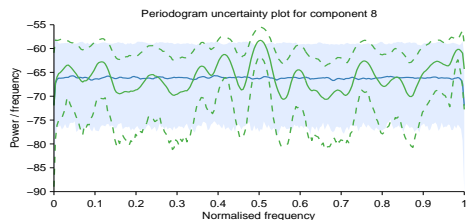
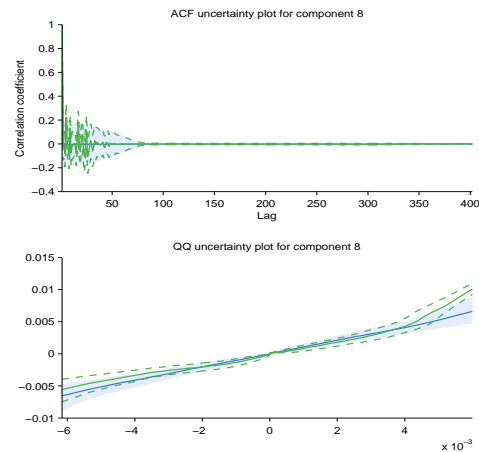


Figure 26: ACF (top left), periodogram (top right) and quantile-quantile (bottom left) uncertainty plots. The blue line and shading are the pointwise mean and 90% confidence interval of the plots under the prior distribution for component 8. The green line and green dashed lines are the corresponding quantities under the posterior.