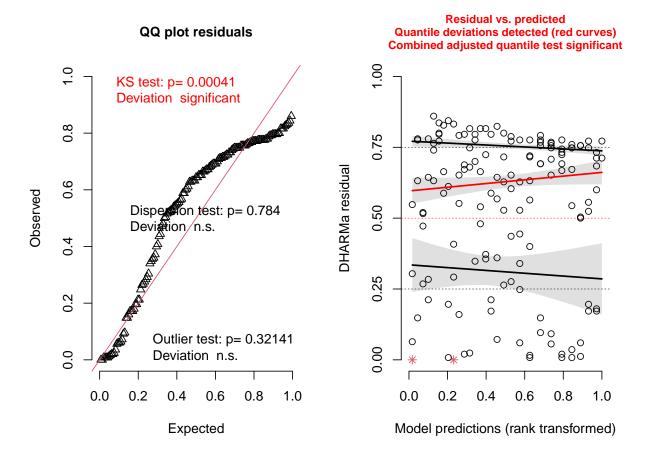
SBC LTE model residuals

Model structure:

 $delta continual \sim time since end + (1|site)$

DHARMa::simulateResiduals(lm_kelp_during_lmer, plot = T)

DHARMa residual



Object of Class DHARMa with simulated residuals based on 250 simulations with refit = FALSE Scaled residual values: $0.772\ 0.672\ 0.712\ 0.712\ 0.684\ 0.18\ 0.668\ 0.732\ 0.172\ 0.692\ 0.6\ 0.172$

Model code:

```
lm_kelp_during_lme_ar4_season <- nlme::lme(
delta_continual ~ time_since_end + quarter + time_since_end*quarter, random = ~1|site,
data = delta_continual %>% filter(exp_dates == "during"),
na.action = na.pass,
correlation = corARMA(p = 4, q = 0))
```

Diagnostic plots (from performance, because DHARMa doesn't allow correlation structures)

```
check_model(lm_kelp_during_lme_ar4_season)
```

Variable `Component` is not in your data frame :/

Could not compute standard errors from random effects for diagnostic plot.

Homogeneity of variance could not be computed. Cannot extract residual variance from objects of class 'lme'.

Converting missing values (`NA`) into regular values currently not possible for variables of class `NULL`.

