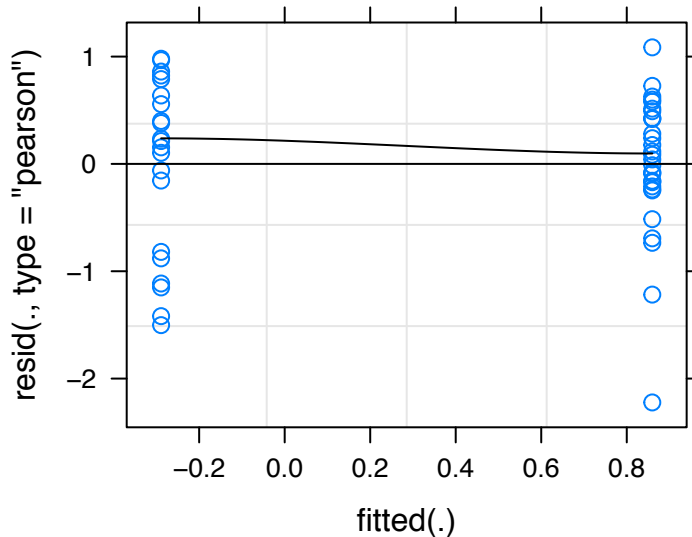


Next, we examine a Tukey-Anscombe plot, the model residuals vs. the fitted values. There doesn't appear to be significant structure left in the data, and the variance of the residuals appears constant throughout, so there is no evidence for any deviation.

```
plot.lme(bm,type=c("p","smooth"),col.line="black")
```



1.5° elevation angle

This section runs the same models as the previous section, but with data from the high-altitude radar sweep (~1.5° elevation angle).

```
m1 = gam(logst(val)~light*year,
  data=light.df.g %>% filter(elev==1.5 & the.type=="max.peak.std"))
m2 = gam(logst(val)~light+year,
  data=light.df.g %>% filter(elev==1.5 & the.type=="max.peak.std"))
m3 = gam(logst(val)~light,
  data=light.df.g %>% filter(elev==1.5 & the.type=="max.peak.std"))
AIC(m1,m2,m3)
```

```
##      df      AIC
## m1 11 116.2694
## m2  7 113.1496
```