## Exposure to Dust - Generalized Additive Models

## November 1, 2024

For GAMs the package "mgcv" is used.

```
> library(mgcv)
> library(catdata)
> data(dust)
```

> plot(gamdust2, select=2)

The first model uses bivariate smoothing for the covariates "dust" and "years" from the "dust"—data. By the option "pers=TRUE" the bivariate effect can be plotted three–dimensional.

Now each covariate is fitted separately, afterwards both effects are plotted.