# Curve Fitting in GNUPLOT IKN

# Take a look to the data data 5. dat

```
# porosity grain_size
```

14.482 0.279

9.245 0.247

14.992 0.282

12.320 0.264

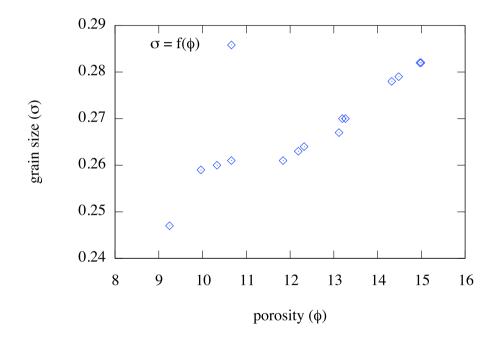
14.322 0.278

13.264 0.270

11.840 0.261

## How to write a symbol in gnuplot label?

- set xlabel "porosity ({/Symbol f})"
- set ylabel "grain size ({/Symbol s})"

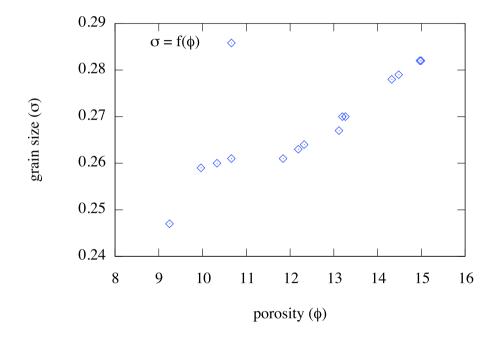


### Symbol text representation

#### How to fit a data?

We approximate the data in the figure by using simple linear equation: y = ax + b

```
a = 0.1 // optional b = 0.1 // optional f(x) = a*x + b fit f(x) "data5.dat" using 1:2 via a, b
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