

Tutorial – plan

- Schedule:
 - Tuesday - Exercise 1:
 - Random numbers
 - MC method
 - MC integration
 - Wednesday - Exercise 2:
 - Sudakov form factor
 - MC solution of evolution equation
 - Thursday - Exercise 3
 - Calculation & simulation of Higgs production
 - Using MC solution of evolution equation → calculation of p_T spectrum of Higgs at LHC

Help in tutorials by
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Computing setup

- Connect either to eduroam or to the school network:
Name: terascale
WPA/WPA2-PSK: XxPWjNH7
- All will get school accounts for naf:
 - for example: `ssh -X school30@naf-school01.desy.de`
 - create folder:
`cd public`
 - copy all templates:
`cp -rp /afs/desy.de/user/s/school30/public/Exercises .`
- Writeup, Exercise sheets, templates and solutions at:
<http://www.desy.de/~jung/mcschool12015/>

- initialize ROOT (needed for plotting)

```
module avail
```

```
module load root/5.34
```

- compiling and running:

```
cd exercise-1
```

```
make -f makefile-example-1
```

```
./example-1
```

- utilities:

```
courselib.h: include headers
```

```
ranlxd.h, ranlxd.cc: random number generator ranlux
```