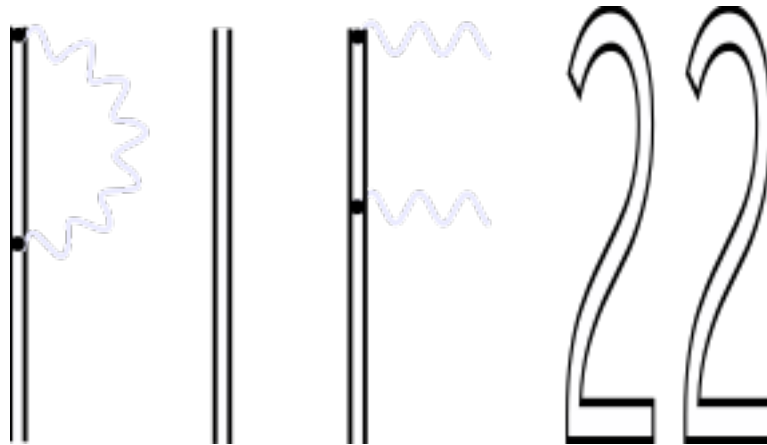


# Physics in Intense Fields (PIF22)



**Monday, 29 August 2022 - Friday, 2 September 2022**

## Scientific Programme

The focus of the conference will be strong-field QED. However, we plan to have introductory talks covering intense-field phenomena in other fundamental interactions as well. Hence, topics to be discussed at the conference include:

## **Strong-field QED**

**Laser particle physics**

**Schwinger effect**

**Spin and polarisation effects**

**Astrophysics & cosmology**

## **Strong fields in the standard model (and beyond)**

### **Gravity**

**Black holes, binaries and their radiation**

**Amplitudes and their classical limit**

### **Theoretical questions**

**Higher orders**

**Integrability**

**Backreaction**

### **Methods**

**Exact solutions**

## **Resummation**

## **Worldline Approaches**

Worldline Formalism or Worldline Quantum Field Theory

## **Numerical simulations**

# **Experiments and facilities**

## **Experiments**

## **Facilities**