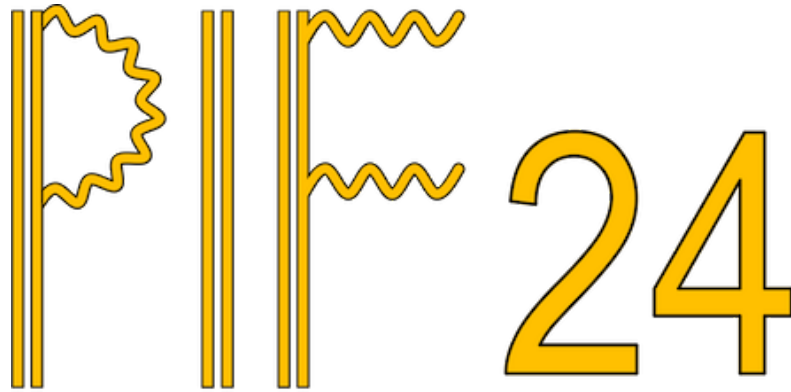


# Physics in Intense Fields (PIF24)



**Monday 26 August 2024 - Friday 30 August 2024**

**Zoom**

## **Scientific Programme**

Advances in high-intensity laser technology continue to motivate research in strong-field QED (SFQED), in which the presence of intense electromagnetic fields induces nonlinear and non-perturbative physical effects.

In turn, interest in observing these novel phenomena continues to generate proposals for experiments to be performed at current, and future, laser facilities.

An essential link between theory and experiment is provided by numerical methods, which translate theoretical results into widely applicable models amenable to PIC and Monte-Carlo simulation schemes.

The focus of PIF24 will be on these three areas of SFQED -- theory, simulation and experiment. The conference will begin with a tutorial talk on each of these topics. Each conference session (outlined below) will begin with an overview talk.

Theory

Laser-particle interactions  
Non-perturbative phenomena  
Higher loop and higher multiplicity results  
Simulation

PIC and Monte-Carlo schemes  
Bench-marking simulations  
Toward higher fidelity  
Experiment

New experimental results  
Facilities overviews  
Future experiment proposals