

# International school at Les Houches



Thematic school « From Basics to Applications of Optical Fibre Links and Frequency Combs »

4-days school - 18-22 April 2022

Location :  
International school  
of physics, near the  
Mont-Blanc mountain



# General organisation

- Follows the previous school « High Precision Physics using an Optical Fibre Link and Optical Frequency Comb » organized in April 2019
- Organized by A. Amy-Klein (Clonets-DS partner, LPL, France) and Caroline Champenois (PIIM lab, France)
- 57 attendants max
- Local housing, restaurant, amphitheater, library, ...



# Program and speakers

## Introductory lessons

**Noise and stability of oscillators –  
Clocks - F. Riehle (Germany, PTB)**

**The servo loop (for stability transfer)  
- F Du Burck (France, USPN)**

## Frequency comparison and transfer

**Optical frequency comb – T. Fortier  
(USA - NIST)**

**Fiber links – J. Kronjaeger (UK-NPL)  
and P. Krehlik (Poland - AGH)**

**Free-space link -L. Sinclair (USA –  
NIST)**

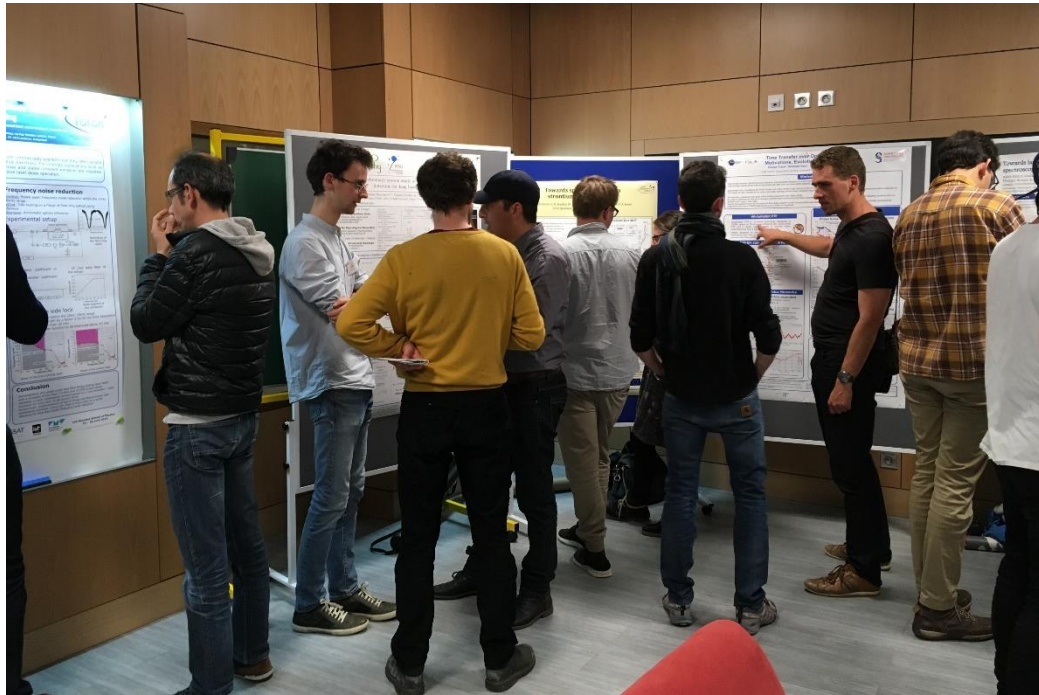


# Program and speakers

## Applications to high-precision measurements

**Atomic and Molecular Frequency Measurement with a comb - T. Udem (MPQ, Germany) - K. Eikema (VUA, Nederland) - N. Picqué (MPQ, Germany)**

**Application of Optical fiber links for earth science, astrophysics, QKD and fundamental physics- C Clivati (I - INRIM) – P. Delva (F-Syrte)**



# Organisation

- **Web site** <https://linkandcomb.sciencesconf.org/>
- Financial support by
  - Labex First-TF (French network for time-frequency metrology and applications),
  - Université Sorbonne Paris Nord/LPL, Aix-Marseille University
- Possibility of sponsoring

