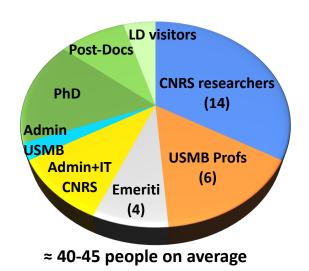
Annecy-le-Vieux Theoretical Physics Laboratory

UMR CNRS/INP – Université Savoie Mont Blanc At 01/09/2021







Federation







Ambitious visitor program

On average (pre-COVID-19) 90 visitors/yr

High-visibility international initiatives

Promotion and coordination of two LIA/IRP International conference series, like

- PhysTeV@Les Houches since 1999
- RAQIS since 2003
- DSU in 2018 (first time in France)

International teaching/PhD programs

Popular science & open doors initiatives







Particle Physics



Standard Model, exploitation of LHC results
Precision calculations in Higgs physics
Flavour physics
New physics (Beyond SM)
Dark matter models and phenomenology

collaboration with ATLAS and LHCb

collaboration with LPSC TH (UGA)

PAGE

collaboration
With HESS & CTA

collaboration with VIRGO members

collaboration with LPSC (UGA)

Astroparticle and cosmology



Early universe: nucleosynthesis, neutrinos...

Multimessenger (astro)physics (cosmic rays, gamma-rays...)

Dark matter identification (indirect searches, alternative candidates)

Mathematical Physics



Integrable Systems: algebraic aspects, applications to out-of-equilibrium statistical & condensed matter physics Scattering amplitudes in quantum field theory & string theory Formal aspects of quantum field theories

collaboration with MPI Munich

PEM

collaboration with LiPhy (UGA)