CV

- Name: Claude Duhr
- 2006-2009: PhD, UCLouvain.
- 2009-2011: PD, IPPP Durham.
- 2011-2013: PD, ETH Zurich.
- 2012-2014: Lecturer, IPPP Durham.
- From Oct. 2014: 'Chercheur Qualifié', UCLouvain.
- From Dec. 2014: CERN.
- Research Interests:
 - → Scattering amplitudes in QCD and SYM.
 - → Higher-order computations.
 - → FeynRules.

Scattering Amplitudes

- Mathematical properties of multi-loop amplitudes:
 - → Special functions (polylogarithms, elliptic, ...)
 - → Relation to number theory (motivic coaction...)
- Planar N=4 SYM:
 - → Wilson loops, amplitudes, correlators,...
 - Hexagon bootstrap
 - → Multi-Regge limit of N=4 amplitudes
- IR structure of gauge theory amplitudes.
 - → Structure of soft anomalous dimension at higher loop orders.

Higher order computations

- Inclusive Higgs cross section at N3LO
- Colorful NNLO
 - → Analytic integration of IR counterterms to prove pole cancellation.
 - → H -> b-bbar
 - e+e- -> 3jets (to appear)
- Future:
 - → More N3LO
 - → Colorful NNLO for hadron collisions.