

Contribution to the Standard Model/QCD Group

Helmholtz project “fundamental couplings @ precision frontier”

Current status: 1 FTE (50% staff + 1 PhD) : contribution to SMP-20-011 (after pre-approval)

SMEFT analysis of inclusive jet and $t\bar{t}$ data in terms of PDFs, α_s , m_t + constraints on effective CI coupling

Plans for Run2/Run3: (QCD) high-pt inclusive jet analysis ultra-legacy with SMEFT interpretation

Development of SMEFT framework for simultaneous interpretation of jet, top and Boson data (with TOP)

Contribution to support and development of xFitter (CMS contribution missing at the moment)

2 Positions to be filled (interviews end of January):

- Staff (will bring in new ideas, role in SM/QCD group TBD)
- 5-year Postdoc towards habilitation (have to share activities with TOP, exact plans for SM/QCD TBD)