



Contribution ID: 117

Type: **Oral**

Disentangling Higgs and Electroweak sectors at Future Leptonic Colliders

Friday, 7 June 2019 11:10 (25 minutes)

With Higgs measurement prospects reaching the per-mille level at future lepton colliders, the interplay between the Higgs and electroweak sectors of the Standard Model Effective Field Theory is expected to become relevant. We investigate the impact of electroweak uncertainties in Higgs coupling determination and examine what electroweak measurements are needed to achieve the full potential of the precision Higgs physics program. We also discuss the potential improvement on electroweak parameters otherwise brought by Higgs measurements. In addition, we study the effects of polarization at future linear colliders.

Collaboration name

Primary authors: DE BLAS MATEO, Jorge (ROMA1); DURIEUX, Gauthier (Technion); Prof. GROJEAN, Christophe (DESY, Hamburg); Dr GU, Jiayin (JGU, Mainz); PAUL, Ayan (DESY, Hamburg and Humboldt Universität zu Berlin)

Presenter: PAUL, Ayan (DESY, Hamburg and Humboldt Universität zu Berlin)

Session Classification: Electroweak Interactions and Higgs physics

Track Classification: Electroweak interactions and Higgs physics