

## **Session Program**

**2-5 Apr 2019**

**LHC EW Precision sub-group workshop (IPPP  
Durham UK)**

***QED/EW corrections relevant for weak mixing  
angle measurements and how to properly  
include LHC measurements of  $m_W$  and  $s^2_{\text{weff}}$   
in global EW fits***

IPPP Durham

## Wednesday 3 April

09:00

### **QED/EW corrections relevant for weak mixing angle measurements and how to properly include LHC measurements of $m_W$ and $s_2^{\text{weff}}$ in global EW fits**

**Session** | **Location:** IPPP Durham

09:00–09:20

**Summary of March meeting: results achieved and issues raised****Speaker**

Daniel Froidevaux

09:30–10:00

**QED corrections and their impact on asymmetries at the Z pole for precision physics at FCCee****Speaker**

Staszek Jadach

10:30–11:00

**Coffee break**

11:00–11:20

**Update on Powheg EW on ISR and IFI estimates****Speaker**

Fulvio Piccinini

11:30–11:50

**Update on KKMC-hh calculations for QED ISR and IFI****Speaker**

Scott Alan Yost

12:30

# Thursday 4 April

11:30

## QED/EW corrections relevant for weak mixing angle measurements and how to properly include LHC measurements of $m_W$ and $s_2^{\text{weff}}$ in global EW fits

Session | Location: IPPP Durham

11:30–11:50

### YFS versus Photos QED FSR studies

#### Speaker

Christian Gutschow

12:00–12:20

### Matching of YFS resummation to NNLO QED + NLO EW in Sherpa

#### Speakers

Jonas Lindert, Jonas Lindert

12:30–12:50

### Photon-induced processes: convergence between HORACE and MC-SANC estimates of their impact on Z lineshape and AFB

#### Speakers

Alessandro Vicini, Serge Bondarenko

13:00–14:00

### Lunch break

14:00–14:30

### Recap of where we stand with EW corrections: $\Delta\alpha^{\text{had}}$ corrections and higher order corrections

#### Speaker

Elzbieta Richter-Was

15:00