Status of the IPa workshop preparation

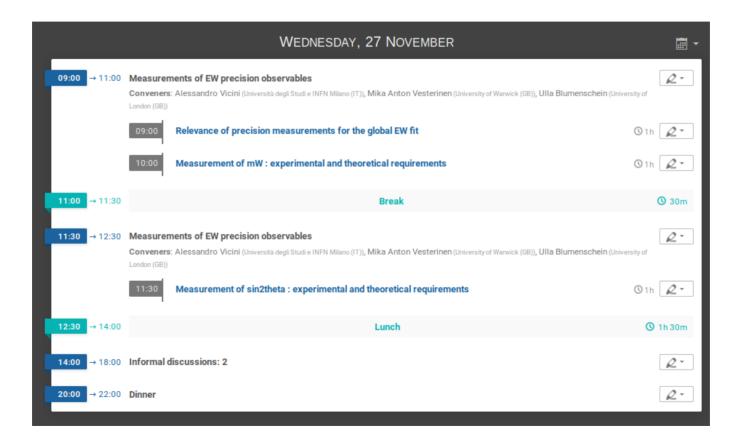
- Timeline
- Timetable
- Collaboration / work in preparation

Precision at hadron colliders

- Workshop held Nov.25 Dec.6, 2019
 - Mon Tue
 PDFs (present and future constraints)
 - Wed Thu EW (measurements and fits)
 - Fri low-Q2 inputs to EWSB
 - Mon Tue Higgs / high-energy
 - Wed Fri Interpretation

4:00 → 16:00	PDFs: Long talk & Discussion Conveners: Jan Kretzschmar (University of Liverpool (GB)), Katerina Lipka (Deutsches Elektronen-Synchrotron (DE)), Maria Ubiali	2-
	14:00 Towards high-precision PDFs : Experimental perspectives	©1h 2-
	15:00 Towards high-precision PDFs : Theory vision Speaker: Dr Lucian Harland-Lang (University of Oxford)	©1h 2-
6:00 → 16:30	Coffee break	③ 30m
6:30 → 18:30	Informal discussions: 1	Q-
	TUESDAY, 26 NOVEMBER	
9:00 → 18:25	PDFs: Topical presentations Conveners: Jan Kretzschmar (University of Liverpool (GB)), Katerina Lipka (Deutsches Elektronen-Synchrotron (DE)), Maria Ubiali	<i>Q</i> -
	09:00 PDFs from EIC and impact in LHC kinematics Speaker: TIMOTHY J HOBBS (Southern Methodist University)	⊙20m 2 ·
	09:20 PDFs from LHeC and impact in LHC kinematics	◎20m 🖉 -
	09:40 PDF prospects at HL-LHC	©20m 2-
	10:00 Compatibility of experimental constraints in precise QCD analyses Speaker: Pavel Nadolsky (Southern Methodist University)	◎20m 🖉 -
	10:20 coffee break	③ 20m
	10:40 Correlations of PDFs, a_s and m_q in QCD analyses	◎20m 2-
	11:00 Treatment of theory uncertainties in the PDFs Speaker: Cameron Voisey (University of Cambridge)	©20m 📿 -
	11:20 Open-source tool for QCD analysis	©20m 2 -
	11:40 Recent Progress in Theory tools for QCD analysis (ApplFast etc)	©20m 🖌 -

12:00		lunch break	O 1h 30n
13:30	SMEFT fit to HERA data		©20m 2.
13:50	PDFs and SMEFT interplay Speaker: Shayan Iranipour (University of Cambridge)		⊙20m 2-
14:10	Combined fits PDF+EW parameters		©20m 🖉 -
14:30	Forward LHC data in QCD analyses		©20m 2.
14:50		coffee break	() 20m
15:10	Global PDF News : CT18		©20m 2.
15:30	Stable covariance matrices for PDF fits		©20m 2-
15:50	EW corrections in PDF fits & photon PDF Speaker: Christopher Schwan		©20m 🖉 -
16:10		coffee break	O 20n
16:30	Prospects for PDF combination and benchmarks		©20m 2-
16:50	Correlations among global PDFs: toy data results		©20m 2.
17:10	Parton Distribution Functions from Lattice QCD Speaker: Savvas Zafeiropoulos		©20m ₽-



		THURSDAY, 28 NOVEMBER	-		
09:00 → 12:00		asurements of EW precision observables: QCD issues in the high-precision determination of EW parameters nveners: Alessandro Vicini (Università degli Studi e INFN Milano (IT)), Mika Anton Vesterinen (University of Warwick (GB)), Ulla Blumenschein (University of don (GB))			
	09:00	Experimental challenges: high- vs low-pileup measurements	©25m 🖌 -		
	09:25	Sensitivity to hadronic uncertainties of individual observables	©25m 🖉 -		
	09:50	Revisiting the estimate of PDF uncertainties	③ 25m ∠ •		
	10:15	Coffee Break	③ 20m		
	10:35	Ultimate QCD tools	𝔅 25m 🖌 •		
	11:00	Estimate of theoretical QCD uncertainties on EW parameters	©25m 🖉 -		
14:00 → 17:00		nents of EW precision observables: Towards a global EW fit	Q-		
	Conveners: Alessandro Vicini (Università degli Studi e INFN Milano (IT)), Mika Anton Vesterinen (University of Warwick (GB)), Ulla Blumenschein (University of London (GB))				
	14:00	Combination of MW / sin2theta final values obtained at different colliders/experiments	©25m 🖉 -		
	14:25	Global EW fits: experimental and theoretical issues	©25m 🖉 -		
	14:50	Towards fully NLO-EW analyses	©25m ∠-		

Work in preparation

- Progress on resummation corrections to fiducial cross sections (cf. Johannes's talk yesterday)
- Revive studies of NLO EW corrections in W production
 - Especially comparing QED corrections with pure FSR
- Uncertainty breakdown matching BLUE and PLR
 - Important for the evaluation of correlations between measurements done using different approaches
 - Correlations between measurements are important as they affect fits downstream
- EW fit exercises including experimental correlations