



# 11th FCC-ee workshop: Theory and Experiments

## Tuesday 8 January 2019

**Theory - 4/3-006 - TH Conference Room (14:00 - 19:00)**

time	[id] title	presenter
14:00	[32] Determination of the QED coupling constant at the Z scale	JEGERLEHNER, Fred JEGERLEHNER, Fred JEGERLEHNER, Fred
14:30	[33] $\alpha_s$ extractions at FCC-ee	D'ENTERRIA, David
15:00	[34] Heavy quarkonia production at FCC-ee	HE, Zhinguo
15:30	[35] QCD with event shapes and jet rates	GEHRMANN, Thomas GEHRMANN, Thomas GEHRMANN, Thomas Kurt
16:00	coffee	
16:30	[36] SM Precision Predictions for partial Higgs Decay Widths	SPIRA, Michael
17:00	[37] Theory predictions for WW production near threshold	SCHWINN, Christian
17:30	[99] Next-to-leading power resummation	SZAFRON, Robert
18:00	[39] Axion-like particles at the FCC-ee	THAMM, Andrea
18:30	[40] discussion	

# Wednesday 9 January 2019

## Theory - 4/3-006 - TH Conference Room (09:00 - 12:50)

time	[id] title	presenter
09:00	[41] Numerical calculations for elliptic Feynman integrals	WEINZIERL, Stefan
09:25	[42] Unsubtractions at NNLO	RODRIGO, German
09:50	[43] NNLO corrections in 4 dimensions	PITTAU, Roberto
10:15	[44] Recent progress on the calculation of two-loop five-point Master Integrals	PAPADOPOULOS, Konstantinos
10:40	coffee	
11:10	[48] 1-loop Feynman integrals at arbitrary space-time d	RIEMANN, Tord
11:35	[45] Analytics from Numerics: 5-Point QCD Amplitudes at Two Loops	PAGE, Benjamin John
12:00	[46] Laporta algorithm for multi-loop vs multi-scale problems	Mr USOVITSCH, Johann
12:25	[47] Numerical Multi-loop Calculations: Sector Decomposition & QMC Integration in pySecDec	JONES, Stephen JONES, Stephen

## Theory - 4/3-006 - TH Conference Room (14:00 - 20:30)

time	[id] title	presenter
14:00	[100] ee-Learning: what leptons can teach us about high-energy physics	GROJEAN, Christophe
15:00	[102] Coffee	
15:30	[83] Precise Higgs physics beyond SM	HEINEMEYER, Sven
16:00	[84] Neutrino physics	RUIZ, Richard RUIZ, Richard RUIZ, Richard
16:25	[49] (Triple) Higgs-coupling imprints at lepton colliders	Dr BAGLIO, Julien
16:50	[50] Dark Matter and Axion-like particles	XUE, Wei
17:15	[85] Tea	
17:45	[51] CoDEx - understanding BSM physics as SMEFT	SUPRATIM DAS BAKSHI
18:10	[52] Global EFT	YOU, Tiann Tevong
18:35	[53] SM Effective field theory fits at the FCC	Dr DE BLAS, Jorge DE BLAS, Jorge Dr DE BLAS, Jorge DE BLAS, Jorge
19:00	[55] discussion	

# Thursday 10 January 2019

## Theory - 4/3-006 - TH Conference Room (09:00 - 12:40)

time	[id] title	presenter
09:00	[56] Mixed QCD-QED resummation effects at higher-orders	SBORLINI, German
09:25	[57] Charm, bottom and top masses	STEINHAUSER, Matthias STEINHAUSER, Matthias
09:50	[58] CoLoRFuNNLO at work: determination of $\alpha_S$	KARDOS, Adam
10:15	[60] Top pair production and mass determination	MAIER, Andreas
10:40	coffee	
11:00	[61] The shower-cut dependence of the top quark mass	SAMITZ, Daniel
11:25	[62] Determination of top couplings with NLO fit	VRONIDOU, Eleni VRONIDOU, Eleni VRONIDOU, Eleni VRONIDOU, Eleni
11:50	[63] One-loop electroweak radiative corrections to polarized $e^+e^- \rightarrow ZH$	DYDYSHKA, Yahor
12:15	[64] Exotic Higgs decays	ZURITA, José Francisco