

Workshop on Standard Model Effective Theory

Thursday 11 July 2019 - Friday 12 July 2019

Heidelberg University

Book of Abstracts

Contents

Anomalous Fermion Couplings in Double Gauge Boson Production	1
EFT and unitarity	1
Flavor and SMEFT	1
Global fits of flavour observables	1
Higgs EFT	1
Outlook	1
Precision observables for new physics searches	2
QCD renormalization in SMEFT	2
SMEFT - a global approach	2
SMEFT theory	2
SMEFT-WET matching	2
Single-top in the SMEFT	2
The Universal One-Loop Effective Action and how to use it	3
Top EFT	3
h to bb in the SMEFT	3

Talks / 15

Anomalous Fermion Couplings in Double Gauge Boson Production

Ian Lewis¹

¹ *University of Kansas*

Corresponding Author(s): ian.lewis@ku.edu

Talks / 8

EFT and unitarity

Wolfgang Kilian^{None}

Corresponding Author(s): kilian@physik.uni-siegen.de

Talks / 11

Flavor and SMEFT

Oscar Cata^{None}

Corresponding Author(s): oscar.cata@uni-siegen.de

Talks / 10

Global fits of flavour observables

Danny van Dyk¹

¹ *TU München*

Corresponding Author(s): danny.van.dyk@gmail.com

Talks / 3

Higgs EFT

Anke Biekötter¹

¹ *Uni Heidelberg*

Corresponding Author(s): biekotter@thphys.uni-heidelberg.de

Talks / 13

Outlook

Tilman Plehn^{None}

Talks / 9

Precision observables for new physics searches

Arnd Behring¹

¹ *KIT*

Corresponding Author(s): arnd.behring@kit.edu

Talks / 14

QCD renormalization in SMEFT

Talks / 2

SMEFT - a global approach

Ilaria Brivio^{None}

Corresponding Author(s): brivio@thphys.uni-heidelberg.de

1

SMEFT theory

Ilaria Brivio^{None}

Corresponding Author(s): brivio@thphys.uni-heidelberg.de

Talks / 12

SMEFT-WET matching

Jason Aebischer¹

¹ *TUM*

Corresponding Author(s): jason.aebischer@tum.de

Talks / 6

Single-top in the SMEFT

Rhea Moutafis¹

¹ *LAL & ITP*

Corresponding Author(s): moutafis@thphys.uni-heidelberg.de

Talks / 7

The Universal One-Loop Effective Action and how to use it

Benjamin Summ¹

¹ *RWTH Aachen University*

Corresponding Author(s): benjamin.summ@gmail.com

Talks / 5

Top EFT

Sebastian Bruggisser¹

¹ *Heidelberg*

Corresponding Author(s): bruggisser@thphys.uni-heidelberg.de

Talks / 4

h to bb in the SMEFT

Ben Pecjak¹

¹ *Durham University*

Corresponding Author(s): ben.pecjak@dur.ac.uk