

# **Asymptotic Safety Meets Particle Physics**

## **Report of Contributions**

Contribution ID: 5

Type: **not specified**

# Welcome

*Tuesday 15 December 2020 09:45 (15 minutes)*

**Presenters:** HILLER; LITIM

Contribution ID: 6

Type: **not specified**

## On Unitarity in Gravitational Scattering

*Tuesday 15 December 2020 10:00 (40 minutes)*

**Presenter:** SACHS

Contribution ID: 7

Type: **not specified**

# Quantum Gravity in the Background Field Approximation

*Tuesday 15 December 2020 10:40 (40 minutes)*

**Presenter:** KLUTH

Contribution ID: 8

Type: **not specified**

## **Quantum Gravity: a fluctuating point of view**

*Tuesday 15 December 2020 11:50 (40 minutes)*

**Presenter:** REICHERT

Contribution ID: 9

Type: **not specified**

# **Models of vector-like fermions with Higgs and Flavor portals**

*Tuesday 15 December 2020 14:30 (40 minutes)*

**Presenter:** HORMIGOS-FELIU

Contribution ID: **10**

Type: **not specified**

## **Colorful BSM with Asymptotic Safety**

*Tuesday 15 December 2020 15:10 (40 minutes)*

**Presenter:** HÖHNE

Contribution ID: 11

Type: **not specified**

# Two Loop Beta Function for Complex Scalar Electroweak Multiplets

*Tuesday 15 December 2020 16:20 (40 minutes)*

**Presenter:** POLONSKY



Contribution ID: 12

Type: **not specified**

# Natural mass hierarchies near fermionic quantum phase transitions

*Wednesday 16 December 2020 11:50 (40 minutes)*

**Presenter:** SCHERER

Contribution ID: 13

Type: **not specified**

## **Asymptotic safety of fermionic field theories**

*Wednesday 16 December 2020 10:40 (40 minutes)*

**Presenter:** CRESSWELL-HOGG

Contribution ID: 14

Type: **not specified**

# **Classifying Gauge-Yukawa Theories on the Edge between Freedom and Safety**

*Wednesday 16 December 2020 10:00 (40 minutes)*

**Presenter:** STEUDTNER

Contribution ID: 15

Type: **not specified**

# **Scalaron-Higgs inflation - a unified model of cosmology, particle physics and dark matter**

*Wednesday 16 December 2020 14:30 (40 minutes)*

**Presenter:** STEINWACHS

Contribution ID: 16

Type: **not specified**

## **Fixed points of quantum gravity with large N matter**

*Wednesday 16 December 2020 15:10 (40 minutes)*

**Presenter:** MEDINA-VAZQUEZ

Contribution ID: 17

Type: **not specified**

## **Asymptotic safety of particle physics**

*Wednesday 16 December 2020 16:15 (45 minutes)*

**Presenter:** LITIM

Contribution ID: **18**

Type: **not specified**

## **The IR fixed point of QED3**

*Thursday 17 December 2020 14:00 (40 minutes)*

**Presenter:** STAMOU

Contribution ID: 19

Type: **not specified**

## **Multi-lepton signatures of vector-like leptons with flavor**

*Thursday 17 December 2020 14:40 (40 minutes)*

**Presenter:** BISSMANN



Contribution ID: 20

Type: **not specified**

## **Reinterpreting Collider Searches for Large Extra Dimensions in Asymptotically Safe Gravity**

*Thursday 17 December 2020 15:20 (40 minutes)*

**Presenter:** ZENGLEIN