

# **Asymptotic Safety meets Particle Physics & Friends**

## **Report of Contributions**

Contribution ID: 1

Type: **not specified**

# Essential Quantum Einstein Gravity

**Presenter:** FALLS, Kevin

**Session Classification:** AS Gravity

Contribution ID: 2

Type: **not specified**

**TBA**

**Presenter:** KLUTH, Yannick (University of Sussex)

**Session Classification:** AS Gravity

Contribution ID: 3

Type: **not specified**

## Graviton spectral function

**Presenter:** REICHERT, Manuel

**Session Classification:** AS Gravity

Contribution ID: 4

Type: **not specified**

## **Emergent gauge fields in (2+1)D quantum critical systems**

**Presenter:** JANSSEN, Lukas (TU Dresden)

**Session Classification:** Critical Phenomena & Fixed points

Contribution ID: 5

Type: **not specified**

## **Gauge-Yukawa theories with 4-Fermi operators in 4d**

**Presenter:** CRESSWELL-HOGG, Charlie (University of Sussex)

**Session Classification:** Critical Phenomena & Fixed points

Contribution ID: 6

Type: **not specified**

## Mergers in gauge-Yukawa at 432

**Presenter:** RIYAZ, Nahzaan (University of Edinburgh)

**Session Classification:** Critical Phenomena & Fixed points

Contribution ID: 7

Type: **not specified**

## **Towards general 3-loop RGEs**

*Thursday 16 December 2021 14:00 (40 minutes)*

**Presenter:** STEUDTNER, Tom

**Session Classification:** Loops and RGEs



Contribution ID: 8

Type: **not specified**

# Ambiguities and Divergences in RG Functions

*Thursday 16 December 2021 14:40 (40 minutes)*

**Presenter:** THOMSEN, Anders Eller (Universität Bern)

**Session Classification:** Loops and RGEs

Contribution ID: 9

Type: **not specified**

## 4-3-2-Loop Beta-Functions

*Thursday 16 December 2021 15:40 (40 minutes)*

**Presenter:** HERREN, Florian (Fermilab)

**Session Classification:** Loops and RGEs

Contribution ID: **10**

Type: **not specified**

## **Planck safe Z'**

*Friday 17 December 2021 10:40 (40 minutes)*

**Presenter:** STEUDTNER, Tom

**Session Classification:** BSM & Searches

Contribution ID: 11

Type: **not specified**

## SM backgrounds for VLLs

*Friday 17 December 2021 11:20 (40 minutes)*

**Presenter:** LINDERT, Jonas (University of Sussex)

**Session Classification:** BSM & Searches

Contribution ID: 12

Type: **not specified**

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

*Friday 17 December 2021 14:00 (40 minutes)*

**Presenter:** BISSMANN, Stefan

**Session Classification:** BSM & Searches

Contribution ID: 13

Type: **not specified**

## **BSM vector-like Quarks**

*Friday 17 December 2021 15:30 (30 minutes)*

**Presenter:** HÖHNE, Tim (TU Dortmund)

**Session Classification:** BSM & Searches

Contribution ID: 14

Type: **not specified**

## Searches for VLQs at the LHC

*Friday 17 December 2021 16:00 (20 minutes)*

**Presenter:** ERDMANN, Johannes

**Session Classification:** BSM & Searches

Contribution ID: 15

Type: **not specified**

## Discussion VLLs

*Friday 17 December 2021 14:40 (35 minutes)*

**Presenter:** DE SANTO, Antonella (University of Sussex (GB))

**Session Classification:** BSM & Searches



Contribution ID: 16

Type: **not specified**

## Essential Quantum Einstein Gravity

*Thursday 16 December 2021 10:00 (40 minutes)*

**Presenter:** FALLS, Kevin

**Session Classification:** AS Gravity

Contribution ID: 17

Type: **not specified**

# Higher Order Curvature Invariants in Quantum Gravity

*Thursday 16 December 2021 10:40 (40 minutes)*

**Presenter:** KLUTH, Yannick (University of Sussex)

**Session Classification:** AS Gravity

Contribution ID: **18**

Type: **not specified**

## Graviton spectral function

*Thursday 16 December 2021 11:20 (40 minutes)*

**Presenter:** REICHERT, Manuel

**Session Classification:** AS Gravity

Contribution ID: 19

Type: **not specified**

## **Emergent gauge fields in (2+1)D quantum critical systems**

*Wednesday 15 December 2021 14:00 (40 minutes)*

**Presenter:** JANSSEN, Lukas (TU Dresden)

**Session Classification:** Critical Phenomena & Fixed points

Contribution ID: 20

Type: **not specified**

## **Gauge-Yukawa theories with 4-Fermi operators in 4d**

*Wednesday 15 December 2021 14:40 (40 minutes)*

**Presenter:** CRESSWELL-HOGG, Charlie (University of Sussex)

**Session Classification:** Critical Phenomena & Fixed points

Contribution ID: 21

Type: **not specified**

## **Mergers in gauge-Yukawa at 432**

*Wednesday 15 December 2021 15:40 (40 minutes)*

**Presenter:** RIYAZ, Nahzaan (University of Sussex)

**Session Classification:** Critical Phenomena & Fixed points