

Session Program

15-18 Dec 2025

**Asymptotic Safety meets Particle Physics &
Friends**

Morning Session

DESY Hamburg

Tuesday 16 December

09:30

Morning Session: Morning Session

Session | Location: DESY Auditorium

09:30–10:15 Fixed points of classical Gravity

Speaker

Neil Turok

10:15–11:00 Four-fermion interactions in four dimensions

Speaker

Charlie Cresswell-Hogg

11:00–11:30 Coffee

11:30–12:00 Spectral Functions in Lorentzian Quantum Gravity

Speaker

Gabriel Assant

12:00–12:30

Towards Four Scalars Scattering in Asymptotically Safe Quantum Gravity

Speaker

Angelo Portas Chiesa

12:30

Wednesday 17 December

09:30

Morning Session: Morning Session

Session | Location: DESY Auditorium

09:30–10:15 **Gross-Neveu-Yukawa @ five loops**

Speaker

Peter Marquard

10:15–10:45 **Operator renormalisation with emergent Supersymmetries**

Speaker

Mrigankamauli Chakraborty

10:45–11:15 **Coffee**

11:15–11:45 **Spontaneous breaking of $SO(2N)$ in 3d Gross-Neveu**

Speaker

Max Uetrecht

11:45–12:30

On the universal content of the proper time flow in scalar and Yang-Mills theories

Speaker

Daniele Rizzo

12:30

Thursday 18 December

09:30

Morning Session: Morning Session

Session | **Location:** FLASH experimental hall "Albert Einstein"

09:30–10:15

Functional Methods at (Multi-)Loop Order: Progress in EFT Matching and Running

Speaker

Dr Anders Eller Thomsen

10:15–11:00

Spontaneous CP breaking as a solution to the strong CP problem in SUSY

Speaker

Martin Schmaltz

11:00–11:30

Coffee

11:30–12:15

UV completing super-Yang-Mills theories through asymptotic safety

Speaker

Gabriel Picanco Costa

12:15–13:00

Primordial Black Holes -- Positivist Perspective, Quantum Quiddity and Galaxy Genesis

Speaker

Florian Kühnel

13:00–14:00

Discussion, Farewell & Lunch

14:00