

# **XXIX Workshop Beyond the Standard Model**

**Monday 20 March 2017 - Thursday 23 March 2017**

**Physikzentrum Bad Honnef  
Programme**

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# Monday 20 March 2017

## Particle Physis - Quo Vadis? - (09:00-10:30)

- Presenters: WELLS, James

## Deformations, Moduli Stabilisation and Loop-Corrected Gauge Couplings for Particle Physics on D-Branes - (10:30-11:00)

- Presenters: HONECKER, Gabriele

## What is the Magnetic Weak Gravity Conjecture for Axions? - (11:30-11:50)

- Presenters: HENKENJOHANN, Philipp

## Minimalistic axion monodromy with an ultra-light throat mode - (11:50-12:10)

- Presenters: MORITZ, Jakob

## Effective action from M-theory on twisted connected sum G2-manifolds - (12:10-12:30)

- Presenters: GUIO, Thaisa

## One-loop Pfaffians and Chaotic Inflation in String Theory - (14:00-14:30)

- Presenters: WIECK, Clemens

## CP violation with an unbroken CP transformation - (14:30-15:00)

- Presenters: TRAUTNER, Andreas

## Weak Gravity Conjecture and the Axionic Black Hole Paradox - (15:00-15:30)

- Presenters: SOLER, Pablo

## Orientifolds of Warped Throats from Toric Calabi-Yau Singularities - (15:30-16:00)

- Presenters: RETOLAZA, Ander

## Effective field theory for magnetic compactifications - (16:30-17:00)

- Presenters: DIERIGL, Markus

## Yukawa Couplings from D-Branes on non-factorisable Tori - (17:00-17:20)

- Presenters: LIYANAGE, Christoph

## String Interactions from 2D Gauge Theory Localisation - (17:20-17:40)

- Presenters: NINAD, Urmi

## **Tuesday 21 March 2017**

### **An introduction to Double and Exceptional Field Theory - (09:00-10:30)**

- Presenters: BERMAN, David

### **Non-geometric backgrounds in string theory - (10:30-11:00)**

- Presenters: PLAUSCHINN, Erik

### **Complex structures and zero-curvature conditions for sigma-models - (11:30-12:00)**

- Presenters: BYKOV, Dmitri

### **Superconformal index of $N = 3$ orientifold theories - (12:00-12:30)**

- Presenters: YOKOYAMA, Shuichi

## Wednesday 22 March 2017

### Gravitational Waves and Black Holes 1 - (09:00-10:00)

- Presenters: NIELSEN, Alex

### Loops in exceptional field theory - (10:00-10:30)

- Presenters: KLEINSCHMIDT, Axel

### Interactions of higher-spin fields - (10:30-11:00)

- Presenters: MKRTCHYAN, Karapet

### Maximal Supersymmetric Solutions in Supergravity - (11:30-11:50)

- Presenters: LÜST, Severin

### AdS vacua from type IIB supergravity - (11:50-12:10)

- Presenters: MURANAKA, Constantin

### Modularity and integrality in F-theory compactifications on CY 4-folds - (12:10-12:30)

- Presenters: FIERRO COTA, Cesar Alberto

### Quiver gauge theories from 6d superconformal gauge theories - (14:00-14:30)

- Presenters: HAGHIGHAT, Babak

### Tensor Galileons and Gravity - (14:30-15:00)

- Presenters: CHATZISTAVRAKIDIS, Athanasios

### Lessons from manyfield inflation - (15:00-15:30)

- Presenters: DIAS, Mafalda

### A general framework for testing models of inflation - (15:30-16:00)

- Presenters: FRAZER, Jonathan

### F-theory on Quotient Manifolds - (16:30-17:00)

- Presenters: OEHLMANN, Paul-Konstantin

### $N=(2,2)$ supersymmetric WZW models in superspace - (17:00-17:20)

- Presenters: DRIEZEN, Sibylle

### Nearly AdS<sub>2</sub> Supergravity - (17:20-17:40)

- Presenters: GOLLA, Iris

## **Thursday 23 March 2017**

### **Quantum Integrable Models in the AdS/CFT correspondence - (09:00-10:30)**

- Presenters: ARUTYUNOV, Gleb

### **Gravitational Waves and Black Holes 2 - (10:30-11:00)**

- Presenters: NIELSEN, Alex

### **Higher spin at one loop and AdS/CFT in fractional dimension - (11:30-11:50)**

- Presenters: TRAN, Tung

### **Resurgence and integrable deformations - (11:50-12:10)**

- Presenters: DEMULDER, Saskia

### **No Go Theorems for Strings and Quantum Fields - (12:10-12:30)**

- Presenters: DRAGON, Norbert