

NEW PERSPECTIVES IN  
CONFORMAL FIELD THEORY AND GRAVITY

HELMHOLTZ

26 - 29 September 2023 DESY Hamburg, Germany



Contribution ID: 266

Type: **not specified**

## Vacua of gauged $N=2$ supergravities arising as special subloci of the complex structure moduli space of String Compactifications

*Wednesday 27 September 2023 14:00 (18 minutes)*

Part of the moduli space of type II string compactifications on Calabi-Yau threefolds is characterized by the variation of Hodge structure of the complex structure moduli space of the Calabi-Yau threefold.

In this talk, we will discuss subspaces of the complex structure moduli space, which are realized in terms of a closed variation of sub-Hodge structures. Physically, such sub-Hodge structures give rise to Minkowski-vacua of the associated gauged  $N=2$  supergravity theory. We will illustrate these concepts with concrete examples of 2-parameter moduli spaces of Calabi-Yau threefolds.

### Summary

**Primary author:** KOTLEWSKI, Sören

**Presenter:** KOTLEWSKI, Sören

**Session Classification:** Parallel Session Wednesday: Strings / Mathematics Physics I

**Track Classification:** Strings & Mathematical Physics