Fakultät für Physik Gravitationsphysik

1090 WIEN, BOLTZMANNGASSE 5



EINLADUNG

im Rahmen Literaturseminars
zum Vortrag
von

Marcus Sperling

(Uni Wien) über

"Symplectic Singularities in Physics: Their Origins and Significance"

Abstract:

Symplectic singularities, also known as hyper-Kahler singularities, encompass well-known geometric spaces such as the Kleinian surface singularities or the moduli space of instantons. Recently, a new class of symplectic singularities has emerged through the construction based on a physics model known as the 3d N=4 Coulomb branch.

In this talk, I aim to provide an introduction and overview of symplectic singularities in general, with a particular focus on the 3d N=4 Coulomb branches. I will place special emphasis on the symplectic singularities that manifest as moduli spaces of vacua within supersymmetric field theories containing 8 supercharges in space-time dimensions ranging from 3 to 6. These instances showcase how geometric features offer elegant descriptions of strongly coupled phenomena.

Ort: Seminarraum A, Währinger Straße 17, 2. Stock

Zeit: Mittwoch, 13.12.2023, 14.15 h - Seminarraum A, Währinger Straße 17, 2. Stock

https://univienna.zoom.us/i/6540036841?pwd=SytyVkZJZzNyRG9IMm13eilHeHRRUT09

gez.: P. Chrusciel, D. Fajman