universität wien
Fakultät für Physik

Einladung zum Vortrag

"Exploring Higgs Vacua through Magnetic Quivers"

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Termin: **Freitag, 20.06.2025, 13:00 Uhr**

Ort: **Christian-Doppler-Hörsaal**
9. Boltzmanngasse 5, 3. Stock

Abstract:

Symmetries and vacuum structures lie at the heart of our understanding of quantum field theories (QFTs). Supersymmetric QFTs, in particular, provide a rare setting where exact results become accessible. In dimensions 3 to 6, theories with eight supercharges feature a robust and universal structure: their Higgs vacua (also known as Higgs branches).

These spaces are shaped by rigid geometric constraints, yet remain sensitive to quantum corrections. Understanding their structure is key to uncovering generalised Higgs mechanisms, classifying RG flows, and exploring dualities across dimensions.

In this talk, I will present the framework of magnetic quivers: a combinatorial and geometric tool that encodes the quantum structure of Higgs vacua. This approach allows one to extract global symmetries, operator spectra, and the complete pattern of Higgs branch RG flows.

Im Rahmen des Vortrages findet um 13:00 Uhr eine Lehrprobe zum Thema „Das Noether-Theorem in der Mechanik" statt.