



# ***EINLADUNG***

im Rahmen des Seminars für Mathematische Physik

zum Vortrag

von

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über

***„Integrable aspects of the AdS/CFT duality“***

**Abstract:**

I will review the integrable aspects of the duality which relates IIB superstrings on  $AdS_5 \times S^5$  to the maximally supersymmetric 4D gauge theory. As the gauge theory is conformal it can be completely characterized by its two and three point functions.

The two-point functions are determined by the scaling dimensions, which correspond to the energies of string states. These scaling dimensions also fix the space-time dependence of the three-point functions upto a coupling constant dependent quantity called the three-point coupling, which is related to the annihilation and creation of string states (the string vertex). I will explain, how integrability of the AdS/CFT correspondence can be used to calculate the scaling dimensions and the three-point couplings.

**Zeit:** Dienstag, 25.9.2018, **13:45**

**Ort:** Fakultät für Physik, Erwin-Schrödinger-Hörsaal,  
Boltzmanngasse 5, 5. Stock

gez.: S. Fredenhagen