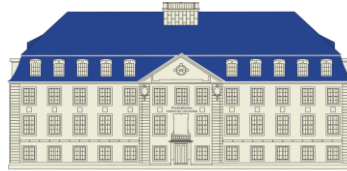




Institut für  
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## COLLOQUIUM „OPTICS AND CONDENSED MATTER“

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*University of Siegen, Siegen, Germany*

### **An Invitation to Quantum Steering**

Quantum steering was originally introduced by Schrödinger in order to capture the essence of the Einstein-Podolsky-Rosen argument. In the modern formulation, steering denotes a type of quantum correlations which lies between entanglement and the violation of Bell inequalities.

In this talk, I will first give an introduction into the topic, starting with the debates between Schrödinger and Einstein. Then, several results on quantum steering shall be discussed: First, I will explain the connection to joint measurability of generalized measurements. Second, several criteria for quantum steering as well as its characterization for two qubits will be discussed.

**December 13th, starting with discussion at 17:00 h, talk at 17:15 h, live IAP lecture hall or via Zoom**

<https://uni-bonn.zoom.us/j/98441612025?pwd=a01SSjlkY1Q3SDFhL09JQk1qc1V6dz09>

Meeting-ID: 984 4161 2025

Kenncode: 294164