

# Condensed Matter Theory Seminar

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## **15:00 Indicators of many-body quantum chaos**

Quantum chaos, specially when caused by interactions between particles, has experienced a remarkable resurgence in the last decade due to its close relationship with a broad spectrum of problems at the forefront of theoretical and experimental physics. Quantum chaos ensures thermalization, hinders localization, and leads to the fast scrambling of quantum information in many-body quantum systems. In this lecture, I will compare different indicators of quantum chaos associated with the spectrum and eigenstates of many-body quantum systems.

**Thursday, 19.05.2022, 15:00 Uhr**  
**Zoom**