



CRC 1227  
Designed Quantum States of Matter



## GUEST LECTURE

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**DQ-mat Special Lecture**

**Friday, 22 November 2024, 10.00 am**

**Room 317, Callinstr. 36, HITec building 3406**

### **"From Heisenberg's Uncertainty Relations to Fisher Information"**

In this lecture, I propose revisiting uncertainty relations using a method that is not discussed so far in standard textbooks. This method allows us to delve deeper into the Heisenberg energy-time relation, which does not involve two incompatible observables. It provides an opportunity to discuss, more generally, the question of quantum speed limit. We will explore various facets of this subject and conclude with its connection to information theory.

**All DQ-mat members and all interested are cordially invited to attend.**