

**Colloquium**  
**Dahlem Center for Complex Quantum Systems**

**Control and Lifetime of Majorana States**

**Prof. Dr. Charlie Marcus**

**Center for Quantum Devices, Copenhagen, Denmark**

**Time: Friday, February 20, 2015, 13:00 c.t.**

**Location: Hörsaal A (1.3.14)**

**Abstract:**

This talk presents recent experiments demonstrating control of the distance between Majorana end-modes, leading to gate and field controlled splitting of zero-bias peaks, in an epitaxial Al-InAs nanowire.

In addition we will present measurement of the poisoning lifetime of Majorana/Andreev states. We consider two types of devices, with so-called Delft (NIS) and Copenhagen (NISIN) geometries, and compare characteristics of these types of structures.

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