

## **Session Program**

**19-21 Jun 2019**

# **Quantum Limits of Knowledge**

## ***Reference Frames, Relativity and Gravity in QM***

Blegdamsvej 17, Aud A  
2100 Copenhagen Ø Denmark

## Thursday 20 June

10:50

### Reference Frames, Relativity and Gravity in QM

**Session** | **Location:** Blegdamsvej 17, Aud A, 2100 Copenhagen Ø Denmark | **Convener:** Ruediger Schack

10:50-11:30 **How the world look like for a quantum particle?**

**Speaker**

Caslav Brukner

11:30-12:10

### Object-Observer Entanglement and Back-Action Evasion in Continuous Positions

#### Measurements

**Speaker**

Klemens Hammerer

12:10

## Friday 21 June

09:00

### Reference Frames, Relativity and Gravity in QM

**Session** | **Location:** Blegdamsvej 17, Aud A, 2100 Copenhagen Ø Denmark | **Convener:** Eugene Polzik

09:00-09:40 **On quantum limits of the idea of knowledge as self-location**

**Speaker**

Thomas Müller

**Location**

Blegdamsvej 17, Aud A, 2100 Copenhagen Ø Denmark

09:40-10:20 **On the role of gravity in table-top quantum experiments**

**Speaker**

Markus Aspelmeyer

**Location**

Blegdamsvej 17, Aud A, 2100 Copenhagen Ø Denmark

10:20-11:00 **Coffee Break**

11:00-11:40 **Device-independent snapshots**

**Speaker**

Valerio Scarani

**Location**

Blegdamsvej 17, Aud A, 2100 Copenhagen Ø Denmark

11:40-12:20 **Performance of Port-based teleportation**

**Speaker**

Matthias Christandl

**Location**

Blegdamsvej 17, Aud A, 2100 Copenhagen Ø Denmark

12:20