



## invites to a seminar by

## Prof. Konrad Banaszek

Quantum Technologies Laboratory, CeNT UW

## Optical communication in the low-power regime 9<sup>th</sup> March 2017 at 1:00 p.m.

Venue: Centre of New Technologies, Banacha 2c, Lecture Hall 0142 (ground floor)

Quantum theory of electromagnetic radiation defines fundamental limits on the capacity of optical communication channels. Approaching the quantum limits requires a change of paradigm from measuring quantities well defined in classical systems, such as amplitude or phase, to exploiting quantum state distinguishability. These issues are particularly pertinent in the regime of low signal power, which is currently explored, e.g., for deep-space satellite communication at optical frequencies.