

# Applied Quantum Measurement

November 5–9, 2007

Leiden, The Netherlands

Measurement is fundamental in quantum mechanics, playing a role both critical and controversial. The founders of quantum theory recognized the striking differences between its role in quantum and classical physics. Rapid advances in experimental capability have sharpened these differences. Recent theoretical developments have provided new perspectives: e.g., in quantum computation, measurements are not merely a way to extract information, but also a powerful computational tool.

The Applied Quantum Measurement workshop will establish links between a wide range of recent developments in the theory and practice of quantum measurement. We aim to gather a select group of students, post-docs, and senior researchers in a stimulating environment. Participants will include theorists and experimentalists working on quantum information, quantum computation, quantum gravity, quantum foundations, and related fields.

Aristotle with bust of Homer. Rembrandt van Rijn (1653). Metropolitan Museum of Art, New York. [www.metmuseum.org](http://www.metmuseum.org)

## Invited speakers:

Reinhard Werner

Eugene Polzik

Serge Massar

Jaromír Fiurášek

Aephraim Steinberg

## Scientific Coordinators:

Richard Gill

Robin Blume-Kohout

Alexei Gilchrist

Marco Barbieri

## Local Program Assistant:

Gerda Filippò

