HELMHOLTZ SYMPOSIUM
AND HELMHOLTZ PRIZE

The Helmholtz-Fonds has made it its goal to promote science and research in the field of precision measurement relating to physics and technology – above all through PTB Seminars, the Helmholtz Symposium and the Helmholtz Prize. In memory of its first president, PTB organizes the Hermann von Helmholtz Symposium every two to three years with the aim of presenting a topical subject relating to fundamental physics research each time. The subject chosen has a particularly close connection to metrology or might be of importance to it in the future. The Hermann von Helmholtz Prize is awarded at the same time in the scope of the Hermann von Helmholtz Symposium.

- The Helmholtz Prize is endowed with €20,000 and is the most distinguished German award in metrology.
- With this prize, the Helmholtz-Fonds and the Stifterverband der Deutschen Wissenschaft honor outstanding scientific and technological research work in the field of “precision measurements in physics, chemistry and medicine” every two years.
- Starting in 2016, the prize will be awarded in the two categories of “fundamental research” and “applied metrology”.

Helmholtz Symposium
and the Awarding
of the 2016 Helmholtz Prize

Wednesday, June 22nd 2016
HELMHOLTZ SYMPOSIUM: THE REALIZATION OF THE UNIT OF MASS IN THE NEW SI

15.30 Opening of the symposium
Prof. Dr. Joachim Ullrich
President of PTB and Chairman of the Helmholtz-Fonds e. V.

15.45 Realization of the kilogram via the Avogadro experiment
Prof. Dr. Frank Härtig
Head of the PTB Division “Mechanics and Acoustics”

16.15 Watt balances: Providing a direct route from quantum electrical standards to the unit of mass
Dr. Stephan Schlamminger
National Institute of Standards and Technology, Gaithersburg, USA

AWARDING OF THE 2016 HELMHOLTZ PRIZE

16:45 Category “Precision measurements in fundamental research”

This year’s prize winners are:
Dr. Maksim Kunitski
Stefan Zeller
Dr. Jörg Voigtsberger
Dr. Till Jahnke
Prof. Dr. Reinhard Dörner
Goethe University, Frankfurt am Main, Faculty of Physics

Title of the work:
“Measuring binding energies of molecular quantum halos with neV precision”

The prize winners present their award-winning work in a brief lecture.

17.30 Category “Precision measurements in applied metrology”

This year’s prize winners are:
Dr. Nicholas A. W. Bell
Dr. Ulrich F. Keyser
Cavendish Laboratory, University of Cambridge, United Kingdom

Title of the work:
“Digitally encoded DNA nanostructures for multiplexed, single-molecule protein sensing with nanopores”

The prize winners present their award-winning work in a brief lecture.

18.15 Stand-up reception