



Wilhelm und Else Heraeus Autumn School

Global Gravity Field Modeling from Satellite-to-Satellite Tracking Data

October 4 – 9, 2015

Physikzentrum

Bad Honnef, Germany

The WE-Heraeus Autumn School offers the opportunity for PhD students and young researchers to enhance their knowledge in the field of satellite gravimetry. The school will teach different approaches for recovering the Earth's gravity field from satellite-to-satellite tracking data. The topic is particularly relevant because of the success of GRACE and because of the upcoming GRACE Follow-On mission. The 5-day program includes morning theory lectures on core topics taught by international experts on the field, as well as intensive afternoon computer exercises in groups on gravity field determination. Evening talks will highlight the latest progress in space geodesy and sensor systems as well as relativistic geodesy.

CORE TOPICS

Day 1: Theory of parameter estimation in satellite gravimetry

Jürgen Kusche, Institut für Geodäsie und Geoinformation, Universität Bonn

Day 2: Orbit determination

Adrian Jäggi, Astronomisches Institut, Universität Bern

Day 3: Classical (variational) approach

Srinivas Bettadpur, Center for Space Research, University of Texas at Austin

Day 4: Acceleration approach

Matthias Weigelt, Faculty of Science, Technology and Communication,
University of Luxembourg

Day 5: Energy balance approach

Christopher Jekeli, School of Earth Sciences, Ohio State University

Evening talks by Reiner Rummel (TU München), Jakob Flury (Leibniz Universität Hannover),
Gerhard Heinzel (Leibniz Universität Hannover), Torsten Mayer-Gürr (TU Graz),
Claus Lämmerzahl (ZARM Bremen)

Application deadline: July 31, 2015

To apply and for more information please visit the *geo-Q* website at
www.geoq.uni-hannover.de/autumnschool

Scientific organization: Prof. Dr. Jakob Flury and Dr. Majid Naeimi, Collaborative
Research Center SFB 1128 "Relativistic geodesy and gravimetry with quantum sensors"
(*geo-Q*), Leibniz Universität Hannover, Germany

