



IAG QuGe WG Q3 Online Meeting June 8, 2023

J Flury, Hannover (Q3 chair)

Agenda

1. Welcome
2. Minutes
3. Current and upcoming activities, conferences (J Flury)
4. Presentations
 - Andrew Ludlow (Boulder): Updates and first measurements from the NIST transportable Yb lattice clock
 - Paul-Eric Pottie, Rodolphe Le Targat, Pacome Delva (Paris): Update on ROYMAGE (portable optical clock and applications) and REFIMEVE+ projects
 - Yoshiyuki Tanaka (Tokyo): Slides on chronometric leveling activities in Japan
 - Wen Bin Shen (Wuhan): Test of gravitational redshift based on China Space Station
 - Miltiadis Chatzinikos, Pacôme Delva (Paris): Model development for the study of temporal networks of optical-atomic clocks
 - Biju Patla (Boulder): Relativistic geodesy with constant redshift surfaces
 - Asha Vincent / Jürgen Müller (Hannover): Terrestrial clock networks and applications in geodesy
 - Akbar Shabanloui / Jürgen Müller (Hannover): Determination of temporal variations of Earth's gravity field with optical clocks onboard LEO satellites
 - Guillaume Lion (Paris) Modeling geopotential variations to assess the contribution of field clocks in managing groundwater resources and ground surface deformations
5. Discussion and planning
6. AOB

Membership

Claude Boucher (France)
Davide Calonico (Italy)
Pascale Defraigne (Belgium)
Pacôme Delva (France)
Ropesh Goyal (India)
Gesine Grosche (Germany)
Hua Guan (China)
Chris Hughes (UK)
Sergei Kopeikin (USA)
Jürgen Kusche (Germany)
Claus Lämmerzahl (Germany)
Marie-Françoise Lequentrec (France)
Guillaume Lion (France)

Andrew Ludlow (USA)
Helen Margolis (UK)
Elena Mazurova (Russia)
Nathan Newbury (USA)
Bijunath Patla (USA)
Nikos Pavlis (USA)
Gerard Petit (France)
Paul-Eric Pottie (France)
Ulrich Schreiber (Germany)
WenBin Shen (China)
Simon Stellmer (Germany)
Yoshiyuki Tanaka (Japan)
Pieter Visser (Netherlands)

Suggestions for a possible continuation

Jochen Kronjäger (Germany)
Giulio Tagliaferro (France)

Current issues, upcoming activities

- 2nd Online Meeting, instead of in-person workshop
- WG3 quadrennial report submitted to QuGe board, to be forwarded to IAG bodies
- IUGG General Assembly Berlin July 11-20, 2023
 - Symposium G02 (Static Gravity Field): “Towards remote comparisons of optical frequencies: New developments from a geodetic perspective” (solicited talk)

Perspectives and plans for QuGe, and QuGe WG3

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