

## IAG Joint Working Group 2.1 Relativistic Geodesy

Meeting 10-11 October 2018

"Petit Pavillon" meeting room  
Bureau International des Poids et Mesures  
92312 Sèvres France

Draft agenda (04/10/2018)

Wednesday 10

13:30 Welcome coffee

14:00 Start of the meeting

1. Welcome, organizational matters (G. Petit, J. Flury)

2. Progresses in optical clocks development and evaluation

S. Bize: Progresses in optical clocks at SYRTE  
Ch. Lisdat: Title to be confirmed

3. Campaigns of optical clock comparisons

G. Grosche: Recent work on the connection PTB- MPQ Garching  
D. Calonico (webex): Geodesy with fiber links: update from Italy

4. Links with the work of the CCTF towards redefinition of the second

G. Petit: The SI second: present realization and path to a redefinition

To be inserted in the afternoon session:

15:30 Coffee break (20 min) followed by a visit to the BIPM Kibble balance experiment (group of about 10)

Thursday 11 9:30

5. Progresses in time and frequency transfer techniques

J. Leute : Worldwide  $10^{-17}$  clock comparison with IPPP  
Y-J. Huang: Long-Baseline Frequency Comparison by a Two-Way Microwave Link  
F. Meynadier: ACES-PHARAO and its two-way microwave link  
P-E. Pottié: Title to be confirmed

6. Theory of relativistic geodesy

C. Lämmerzahl : Theoretical aspects of relativistic geodesy  
P. Delva: Relativistic corrections for time and frequency transfer in optical fibers (Title to be confirmed)

To be inserted in the morning session:

11:00 Coffee break with group photo

Lunch break at 12:45

Thursday 11 13:45

7. Determination of geopotential with clocks

G. Lion: Determination of the geopotential at high spatial resolution with optical clocks

J. Mueller (webex): Using optical clocks and quantum gradiometers onboard satellites for determining the Earth's gravity field

H. Wu (webex): Optical clock networks for height system unification

8. Applications in geodesy and related fields

J. Flury: Integration of future clock networks into geodetic reference frames

M-F. Lalancette: What is at stake in ocean sciences (Title to be confirmed)

9. Discussion, Plans and perspectives of the group

(All)

To be inserted in the afternoon session:

15:00 Coffee break