



QuantumFrontiers General Assembly 2021

<https://meetanyway.com/events/quantumfrontiers-general-assembly-2021/>

| Day 1 – Monday, May 17 th , 2021 | | | Day 2 – Tuesday, May 18 th , 2021 | | |
|---|--|--------------------------------|--|---|--------------------------------|
| | | Floor | | | Floor |
| 09:00 – 09:30 | Executive Board Meeting – Welcoming the IAB (by invitation only) | EB/SB Meeting | 08:00 – 10:00 | Science Board Meeting (by invitation only) | EB/SB Meeting |
| 09:30 – 10:15 | Welcome Talk of the Speakers | Main Stage (WebEx Link) | | Meet our International Advisory Board | |
| 10:15 – 10:20 | Introduction to the virtual conference platform | Main Stage (WebEx Link) | 10:00 – 11:15 | <ul style="list-style-type: none"> • Presentation by S. Vitale • Presentation by H. Katori • Presentation by A. Landragin • C. Ospelkaus: QVLS • J. Müller/TerraQ team: Relativistic and Quantum-Based Geodesy | Main Stage (WebEx Link) |
| 10:20 – 10:45 | General Assembly (mandatory for all members) | Main Stage (WebEx Link) | | | |
| 10:45 – 11:00 | Networking Coffee Break | Lobby | 11:15 – 11:45 | Networking Coffee Break | Lobby |
| 11:00 – 12:30 | Award Winner Talks <ul style="list-style-type: none"> • S. Kroker: <i>Good vibes only - Fluctuations in optical systems for high-precision experiments</i> • V. Müller: <i>Lessons learned from the Laser Ranging Interferometer aboard GRACE Follow-On</i> • M. Zopf: <i>Semiconductor-generated entangled photons for hybrid quantum networks</i> • M. Tred Nary: <i>Laser Power Stabilization via Radiation Pressure</i> • P. Schmidt: <i>Testing Fundamental Physics with Highly Charged Ion Clocks</i> • C. Lämmerzahl: <i>Investigating geodetic constraints on the Carbon cycle</i> | Main Stage (WebEx Link) | 11:45 – 12:30 | Support Structures <ul style="list-style-type: none"> • J. Riek: <i>Equal Opportunity at LUH</i> • A. Philips: <i>Report of Equal Opportunity Project</i> • F. Kawazoe: <i>QFIRS</i> • H. Brüning: <i>QuEEP</i> | Main Stage (WebEx Link) |
| 12:30 – 13:30 | Lunch Break | On your own | 12:30 – 13:30 | Lunch Break | On your own |
| 13:30 – 14:00 | TG Poster Teaser Presentations: <ul style="list-style-type: none"> • Quantum and Nano-Engineering of Light • Quantum and Nano-Engineering of Matter | Main Stage (WebEx Link) | 13:30 – 14:00 | TG Poster Teaser Presentations: <ul style="list-style-type: none"> • Precision Measurements • Enabling Technologies | Main Stage (WebEx Link) |
| 14:00 – 15:00 | Poster session 1: Quantum and Nano-Engineering of Light Poster session 2: Quantum and Nano-Engineering of Matter | Poster Sessions 1 and 2, Day 1 | 14:00 – 15:00 | Poster session 3: Precision Measurements Poster session 4: Enabling Technologies | Poster Sessions 3 and 4, Day 2 |
| 15:00 – 15:20 | Networking Coffee Break | Lobby | 15:00 – 15:20 | Networking Coffee Break | Lobby |
| 15:20 – 16:00 | Poster session 1: Quantum and Nano-Engineering of Light Poster session 2: Quantum and Nano-Engineering of Matter | Poster Sessions 1 and 2, Day 1 | 15:20 – 16:00 | Poster session 3: Precision Measurements Poster session 4: Enabling Technologies | Poster Sessions 3 and 4, Day 2 |
| | | | 16:00 – 17:00 | Executive Board Meeting (by invitation only) | EB/SB Meeting |

Day 1 Poster Sessions 14:00 – 16:00 (break 15:00-15:20)

Poster Session 1: Quantum and Nano-Engineering of Light

1A. Twisted Light

1B. Structured Illumination at the Nanoscale

1C. Single Photons

1D. Novel micro-optomechanical mirrors

1E. Laser Development and Stabilisation for next-generation GWDs

1F. Non-classical light

Poster Session 2: Quantum and Nano-Engineering of Matter

2A. Quantum Electrical Standards

2B. Topological Systems

2C. Spin and Transport Models

2D. Open many-body Quantum Systems

2E. Spin Squeezing and non-classical states

Day 2 Poster Sessions 14:00 – 16:00 (break 15:00-15:20)

Poster Session 3: Precision Measurements

3A. Tests of Fundamental Physics

3B. Optical Clock Networks

3C. Space Laser Gravimetry

3D. Backaction-evading Techniques

3E. Sub-standard Q. Limit in suspended interferometers

3F. Quantum Computation Concepts

Poster Session 4: Enabling Technologies

4A. Education and Outreach

4B. Electron Microscopy

4C. TrapFab

4D. Quantum Sensors for Geodetical Observations and Relativistic Geodesy

4E. Quantum Navigation

4F. Optical Simulations