

## Seminar on Precision Physics and Fundamental Symmetries



### List of Confirmed Speakers

Klaus Blaum, Dima Budker, Stefan Eriksson, Hartmut Häffner, Jeff Hangst, Laurent Hilico, Jonathan Home, Masaki Hori, Klaus Kirch, Christian Ospelkaus, Ekkehard Peik, Randolph Pohl, Stephan Schiller, Piet Schmidt, Anna Soter, Mike Tarbutt, Stefan Ulmer

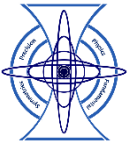
### Preliminary Seminar Program (in progress)

Date	Speaker	Chair	Affiliation	Title
03/31 10:30	Christian Ospelkaus	SU	PTB/ Hannover	Towards a Small-Scale Trapped-Ion Quantum Processor Based on Near-Field Microwave Quantum Logic Gates
04/02 16:00	Dima Budker	SU	HIM/PRISM A	News from the Dark Side
04/07 14:00	Klaus Kirch	KB	ETH-Z/PSI	Ultracold Neutrons and the Neutron Electric Dipole Moment
04/09 16:00	Hartmut Häffner	CO	Berkeley	Coherent Control of Rotating Ion Strings: Towards Observing Quantum Statistics in a New Regime
04/14 10:30	Piet Schmidt	KB	PTB	Quantum Logic Spectroscopy of Highly Charged Ions for Optical Clocks and Tests of Fundamental Physics
04/16 16:00	Klaus Blaum	SU	MPI-K	Precision Mass Measurements for Nuclear and Neutrino Physics Studies
04/21 10:30	Stefan Ulmer	KB	RIKEN	Tests of Fundamental Symmetries with Single Particles in Penning Traps
04/23 10:30	Masaki Hori	CO	MPQ	Laser spectroscopy of antiprotonic and pionic helium atoms
04/28 16:00	Jeffrey Hangst	SU	Aarhus	Antihydrogen: science and science fiction
04/30 10:30	Mike Tarbutt	KB	ICL	Testing fundamental physics with ultracold molecules
05/05 16:00	Stefan Eriksson	SU	Swansea	Testing Fundamental Physics in Antihydrogen Experiments
05/07 10:30	Stephan Schiller	CO	Uni Düsseldorf	Precision physics with the hydrogen molecular ion
05/12 10:30	Jonathan Home	CO	ETH-Z	Quantum computing with trapped ions
05/14 10:30	Randolf Pohl	KB	Uni Mainz	Myonic Hydrogen and the Proton Radius Puzzle
05/19 10:30	Anna Soter	CO	PSI / ETH-Z	
05/21				
05/26				
05/28				

**Organizers:** Christian Ospelkaus, Klaus Blaum, Stefan Ulmer

**Website:** <https://indico.cern.ch/category/12183/>

For any feedback contact [stefan.ulmer@cern.ch](mailto:stefan.ulmer@cern.ch)



# Seminar on Precision Physics and Fundamental Symmetries



## Comment

This virtual seminar is an initiative for the precision physics and quantum information community and will be organized during the COVID-19 shutdown.

The seminar will address specific topics of the fields of precision measurements, tests of fundamental symmetries and quantum information.

Starting from 2020/03/31, two seminars per week will be offered, which will take place Tuesday and Thursday, for each seminar 90 minutes are allocated. The time slots of the seminars are defined by the speakers and therefore flexible, participants, please check the program on [indico](https://indico.cern.ch/category/12183/)  
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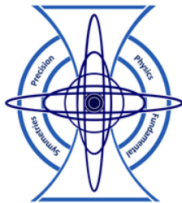
Slides will be provided on INDICO, it is planned to stream the event via "zoom".

## Updates

Work in progress, for continuous updates please check the seminar website:  
<https://indico.cern.ch/category/12183/>

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Create event +



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There are 7 events in the future. [Hide](#)

April 2020

- 23 Apr **Masaki Hori, "Laser spectroscopy of antiprotonic and pionic helium atoms"** NEW
- 21 Apr **Stefan Ulmer, "Tests of Fundamental Symmetries with Single Particles in Penning Traps"** NEW
- 16 Apr **Klaus Blaum, "Precision Mass Measurements for Nuclear and Neutrino Physics Studies"** NEW

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