

**Workshop on matter-wave
interferometry : from
pioneering experiments to
modern applications**

Report of Contributions

Contribution ID: 1

Type: **not specified**

Welcome | History of Paris Observatory and SYRTE

Thursday, June 27, 2019 1:30 PM (30 minutes)

Presenter: LANDRAGIN, Arnaud (SYRTE)

Contribution ID: 2

Type: **not specified**

From CO2 lasers to atom interferometry

Thursday, June 27, 2019 2:00 PM (40 minutes)

Presenter: BORDÉ, Christian (SYRTE and Laboratory for laser physics, French academy of Science)

Contribution ID: 3

Type: **not specified**

Interferometry with cold neutrons

Thursday, June 27, 2019 2:40 PM (40 minutes)

Presenter: ABELE, Hartmut (Atominstitut, TU Wien)

Contribution ID: 4

Type: **not specified**

Interferometry with atomic beams and separated arms

Thursday, June 27, 2019 3:50 PM (40 minutes)

Presenter: VIGUÉ, Jacques (LCAR, University of Toulouse)

Contribution ID: 5

Type: **not specified**

Light-pulse interferometry with cold atoms

Thursday, June 27, 2019 4:30 PM (40 minutes)

Presenter: KASEVICH, Mark (Stanford University)

Contribution ID: 6

Type: **not specified**

Matter-wave Interferometry with complex molecules: Quantum experiments at the interface to chemistry and biology and the classical world

Thursday, June 27, 2019 5:10 PM (40 minutes)

Presenter: ARNDT, Markus (University of Vienna)

Contribution ID: 7

Type: **not specified**

Testing gravity with free falling and trapped atom interferometry

Friday, June 28, 2019 9:20 AM (40 minutes)

Presenter: TINO, Guglielmo (LENS, University of Florence)

Contribution ID: 8

Type: **not specified**

Measurements of the recoil velocity by atom interferometry

Friday, June 28, 2019 10:00 AM (40 minutes)

Presenter: GUELLATI, Saïda (Laboratoire Kastler Brossel, Sorbonne University)

Contribution ID: 9

Type: **not specified**

Test of the equivalence principle and gravitational wave detection with atom interferometry

Friday, June 28, 2019 11:10 AM (40 minutes)

Presenter: BOUYER, Philippe (LP2N, Institut d'Optique)

Contribution ID: **10**

Type: **not specified**

Relativistic effects in macroscopically delocalized quantum superpositions

Friday, June 28, 2019 11:50 AM (40 minutes)

Presenter: ROURA, Albert (University of Ulm)

Contribution ID: 11

Type: **not specified**

HDR thesis defense - Atom interferometry: from fundamental physics to precision inertial measurements

Friday, June 28, 2019 2:00 PM (2h 30m)

Presenter: GEIGER, Remi (SYRTE)