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Frontiers of Matter Wave Optics School and Conference | (smr 3735)

Tuesday 20 September 2022

- Budinich Lecture Hall (LB) (09:00-17:20)

time	title	presenter
09:00	Observation of a gravitational Aharonov-Bohm effect and its implications for quantum superpositions of Newtonian gravitational fields	MARK KASEVICH
09:40	Determination of the fine-structure constant using atom interferometry	SAIDA GUELLATI-KHELIFA
10:20	Coffee break	
11:00	Persistent currents for ultracold fermions on a ring	ANNA MINGUZZI
11:40	LACENET — A machine learning approach for mask generations for matter-wave lithography	JOHANNES FIEDLER
12:00	Composite pulses for atom interferometry	TIMOTHY FREEGARDE
12:20	Lunch break	
14:00	Clock Atom Interferometry and Floquet Atom Optics	JAN RUDOLPH
14:40	Cold Atom Quantum Technology to Explore Fundamental Physics	OLIVER BUCHMUELLER
15:20	Inferring non-equilibrium thermodynamics in continuously monitored systems: the role of information	MAURO PATERNOSTRO
16:00	Coffee break	
16:20	Efficient atomic lensing of quantum gas mixtures	MATTHIAS MEISTER
16:40	Observation of the Einstein-Podolsky-Rosen paradox between two Bose-Einstein condensates	TILMAN ZIBOLD
17:00	Recent results on quantum sensors	PHILIPPE BOUYER