



AVA School on Precision Studies

23 – 27 March 2020, Prague, Czech Republic



Detailed scientific programme – online provision

	Monday	Tuesday	Wednesday	Thursday	Friday
8:30 - 9:30	Start 9:15 Welcome Carsten Welsch (ULIV)	Probing gravity with antimatter Barbara Latacz (CERN)	Classic particle physics experiments Roman Lysak (FZU)	BASE introduction and overview Christian Smorra (CERN/RIKEN)	Atom interferometry Xiayi Cheng (M Squared)
9:30 - 10:30	Recap: Fundamentals of beam physics Javier Resta-Lopez (ULIV)	Positronium physics I Daniel Murtagh (SMI)	Physics beyond the Standard Model and Dark Matter Elise Wursten (CERN)	CPT tests (at BASE, ERC) Christian Smorra (CERN/RIKEN)	Ultracold atoms Bing Yang Innsbruck University
COFFEE BREAK					
11:00 - 12:00	Recap: Antimatter physics Cloe Malbrunot (CERN)	EDM (e^-) in storage rings Joerg Pretz (FZJ)	Time variation of fine-structure constant Natalia Oreshkina (MPIK)	G factor measurements Andreas Mooser (MPIK)	Quantum technology Jose Verdu Galiana (U Sussex)
12:00 - 13:00	Recap: Beam diagnostics Hao Zhang (ULIV)	EDM (molecules) Steven Hoekstra (Groningen)	Testing QED Sven Sturm (MPIK)		Closing Remarks Carsten Welsch (ULIV)
LUNCH					
14:30 - 15:30	Recap: Deceleration, cooling and trap injection Lars Joergensen (CERN)				
15:30 - 16:30	Laser and penning traps Richard Thompson (Imperial College)				