

FOR Retreat 10 - 12 July 2024: Probing the Quantum Vacuum at the High-Intensity Frontier

Wednesday	Thursday	Friday
	9:30 Uhr, Pooyan Khademi : Dark-field technique for measure quantum vacuum signal	9:30 Uhr, Nikita Larin : Unveiling the phase space of nonlinear Compton scattering
	10:15 Uhr, Lars Maiwald : Phase transition analogues in laser collisions with a dark-field setup	10:15 Uhr: Lab Tour & Discussion
	11:00 Uhr, Rasmus Rasche : Adaptive Heisenberg-Euler solver using dynamic mesh refinement	11:50 Uhr: Closing remarks
13:00 Uhr: Arrival (Lunch snacks)	12:00 Uhr: Lunch break	12:00 Uhr: Lunch / Departure
13:50 Uhr: Introductory remarks	13:15 Uhr, Katinka von Grafenstein : Laser Wakefield Acceleration to GeV Electron Energies for the Breit-Wheeler Experiment	
14:00 Uhr, Felix Karbstein : Biref@HIBEF	14:00, Alexandra Eckey : The impact of laser focussing and radiation reaction on particle spectra from nonlinear Breit-Wheeler pair production	
14:45 Uhr, Willi Hippler : A new X-ray polarization analysis method	14:45 Uhr, Felipe Salgado : Background Analysis and Pair Detection at the FOR2783/E3 Experiment	
15:30 Uhr: Coffee break	15:30 Uhr: Coffee break	Location: Seminar rooms 25.33.00.61 (Talks) and 25.22.00.28 (Breaks) at HHU
16:00 Uhr, Fabian Schütze : A dark-field setup for the measurement of light-by-light scattering with high-intensity lasers	16:00 Uhr, Yukiko Song : Simulation of dynamical pair creation in a strong electric field	
16:45 Uhr, Leonard Doyle : Current status of the planned photon-photon scattering experiment at CALA	16:45 Uhr, Selym Villalba-Chavez : Dynamically assisted nonlinear Breit-Wheeler pair production in high-intensity laser fields	Talk duration 30-35 min + questions
17:30 Uhr: PI Meeting	18:30 Uhr: Dinner (FOR members)	Legend: Birefringence Vacuum nonlinearities Pair production