

# SIGN Workshop 2019

Odense, September 2-6, 2019

CP<sup>3</sup> Origins

Cosmology & Particle Physics

	Monday	Tuesday	Wednesday	Thursday	Friday
8:30	Registration				
8:45	<i>Welcome</i> B. Jäger				
9:00	<b>Kurt Langfeld</b> <i>Graphene beyond half-filling</i>	<b>Andrei Alexandru</b> <i>Improved algorithms for generalized thimble method</i>	<b>Ion Stamatescu</b> <i>Controlling Complex Langevin Simulations of Realistic Lattice Models by Boundary Term Analysis</i>	<b>Urs Wenger</b> <i>Canonical formulation of fermionic quantum field theories on the lattice</i>	<b>Olmo Francesconi</b> <i>Density of states approach to the sign problem</i>
10:00	Coffee Break				
10:30	<b>Julian Lenz</b> <i>Exotic Phase Transitions In Interacting Fermionic Theories</i>	<b>Michael Kroyter</b> <i>Optimisation of complex integration contours at higher order</i>	<b>Denes Sexty</b> <i>QCD Thermodynamics using the Complex Langevin equation</i>	<b>Wolfgang Unger</b> <i>The Canonical Phase Diagram of LQCD in the Strong Coupling Regime</i>	<b>Jarno Rantaharju</b> <i>First steps in applying the density of states method to the Thirring model</i>
11:30	<b>Daniel Göschl</b> <i>Lattice study of the 2-flavor U(1) gauge Higgs model at topological angle <math>\theta = \pi</math></i>	<b>Scott Lawrence</b> <i>Analytic Continuation and the Real-Time Sign Problem</i>	<b>Felipe Attanasio</b> <i>Spin-orbit coupled bosons, with complex Langevin</i>	<b>Giuseppe Gagliardi</b> <i>Evaluation of the <math>O(\beta^2)</math> corrections to Strong Coupling QCD.</i>	
12:30	Lunch				
14:00	<b>Felix Ziesche</b> <i>Monte-Carlo on piecewise linear spaces</i>	<b>Maksim Ulybyshev</b> <i>Thimbles decomposition in thermodynamic limit: comparison of hexagonal and square lattice Hubbard model</i>	City Walk	<b>Gert Aarts</b> <i><math>O(\mu^2)</math> corrections to mesonic correlators</i>	
15:00	Coffee Break			Coffee Break	
15:30	<b>Felix Ziegler</b> <i>U(1) lattice gauge theory on thimble tangent spaces</i>	<b>Gergely Endrodi</b> <i>QCD with background electric fields</i>		<b>Philippe de Forcrand</b> <i>Complex Langevin failure with a real action</i>	
16:30					

All plenary talks are in O100.

The conference dinner is Thursday at 19:00.