

**Dynamical Aspects of Particles and Fields Away From Equilibrium**

**Proseminar FS 2015**

**HIT F13, Monday 11:00-13:15**

**Start: 30 Mar 2015**

**Philippe de Forcrand (forcrand@phys.ethz.ch)**

<b>Topics</b>	<b>Student</b>	<b>Email</b>	<b>Tutor</b>	<b>Email</b>	<b>Date</b>
<b>Linear response, Onsager relations</b>	Janis Fluri	<a href="mailto:jafluri@student.ethz.ch">jafluri@student.ethz.ch</a>	Kasper Larsen	<a href="mailto:kjlarsen@phys.ethz.ch">kjlarsen@phys.ethz.ch</a>	30 Mar 15
<b>Fluctuation-dissipation theorem, Kubo formula, transport coefficients</b>	Max Kessler	<a href="mailto:kesslerm@student.ethz.ch">kesslerm@student.ethz.ch</a>	Kasper Larsen	<a href="mailto:kjlarsen@phys.ethz.ch">kjlarsen@phys.ethz.ch</a>	30 Mar 15
<b>Kinetic theory: Boltzmann equation, Boltzmann's H-theorem</b>	Jonas Glatthard	<a href="mailto:jonasg@student.ethz.ch">jonasg@student.ethz.ch</a>	Alexander Huss	<a href="mailto:ahuss@phys.ethz.ch">ahuss@phys.ethz.ch</a>	20 Apr 15
<b>Hydrodynamics: Chapman-Enskog method, Navier-Stokes equations</b>	Philipp Schicho	<a href="mailto:philipp.schicho@student.ethz.ch">philipp.schicho@student.ethz.ch</a>	Miller Mendoza	<a href="mailto:mmendoza@ethz.ch">mmendoza@ethz.ch</a>	20 Apr 15
<b>Relativistic hydrodynamics</b>	Joscha Knolle	<a href="mailto:jknolle@student.ethz.ch">jknolle@student.ethz.ch</a>	Miller Mendoza	<a href="mailto:mmendoza@ethz.ch">mmendoza@ethz.ch</a>	27 Apr 15
<b>Langevin equation, Fokker-Planck equation</b>	William Jackson	<a href="mailto:jacksonb@student.ethz.ch">jacksonb@student.ethz.ch</a>	Alexander Huss	<a href="mailto:ahuss@phys.ethz.ch">ahuss@phys.ethz.ch</a>	27 Apr 15
<b>Stochastic calculus: Itô and Stratonovich</b>	Simon Brun	<a href="mailto:brunsi@student.ethz.ch">brunsi@student.ethz.ch</a>	Hélvio Vairinhos	<a href="mailto:helviov@phys.ethz.ch">helviov@phys.ethz.ch</a>	4 May 15
<b>Edwards-Wilkinson equation, KPZ equation</b>	Kevin Roth	<a href="mailto:rothk@student.ethz.ch">rothk@student.ethz.ch</a>	Jan Nagler	<a href="mailto:jnagler@ethz.ch">jnagler@ethz.ch</a>	4 May 15
<b>Diffusion-limited aggregation</b>	Sebastian Honegger	<a href="mailto:honegges@student.ethz.ch">honegges@student.ethz.ch</a>	Marcel Thielmann	<a href="mailto:marcel.thielmann@ifb.baug.ethz.ch">marcel.thielmann@ifb.baug.ethz.ch</a>	11 May 15
<b>Self-organized criticality</b>	Eli Richter	<a href="mailto:erichter@student.ethz.ch">erichter@student.ethz.ch</a>	Jan Nagler	<a href="mailto:jnagler@ethz.ch">jnagler@ethz.ch</a>	11 May 15
<b>Metastability and nucleation</b>	Christa Zoufal	<a href="mailto:zoufalc@student.ethz.ch">zoufalc@student.ethz.ch</a>	Hélvio Vairinhos	<a href="mailto:helviov@phys.ethz.ch">helviov@phys.ethz.ch</a>	18 May 15
<b>Discrete time: Feigenbaum, logistic map</b>	Morgane Borreguero	<a href="mailto:bmorgane@student.ethz.ch">bmorgane@student.ethz.ch</a>	Oscar Åkelund	<a href="mailto:oscara@itp.phys.ethz.ch">oscara@itp.phys.ethz.ch</a>	18 May 15
<b>Continuous time: Lorenz attractor, W. Tucker's proof</b>					
<b>KAM theorem</b>					