



## NEQFLUIDS2016 : Classical and Quantum Fluids Out of Equilibrium

13-16 Jul 2016 Grenoble (France)

### **Critical dynamics in uniform Bose gases**

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Ultracold atoms provide an interesting platform to study out of equilibrium physics. The recent development of box potentials for uniform gases now allows one to investigate the emergence of long-range order in such systems. In this talk I will review recent experiments studying temperature quenches on uniform Bose gases. I will show that these experiments offer the possibility to test different predictions of Kibble-Zurek mechanism and could enable to measure critical exponents.