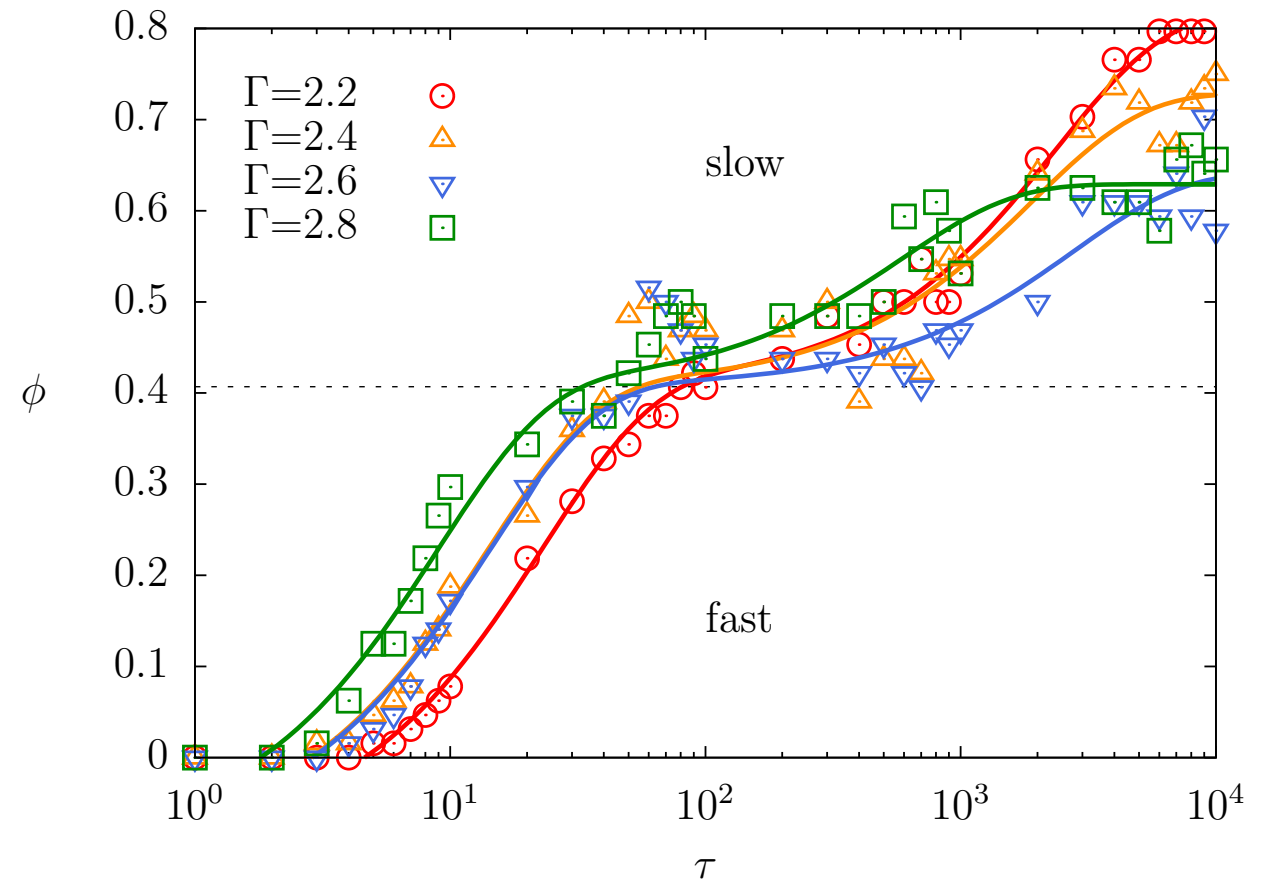
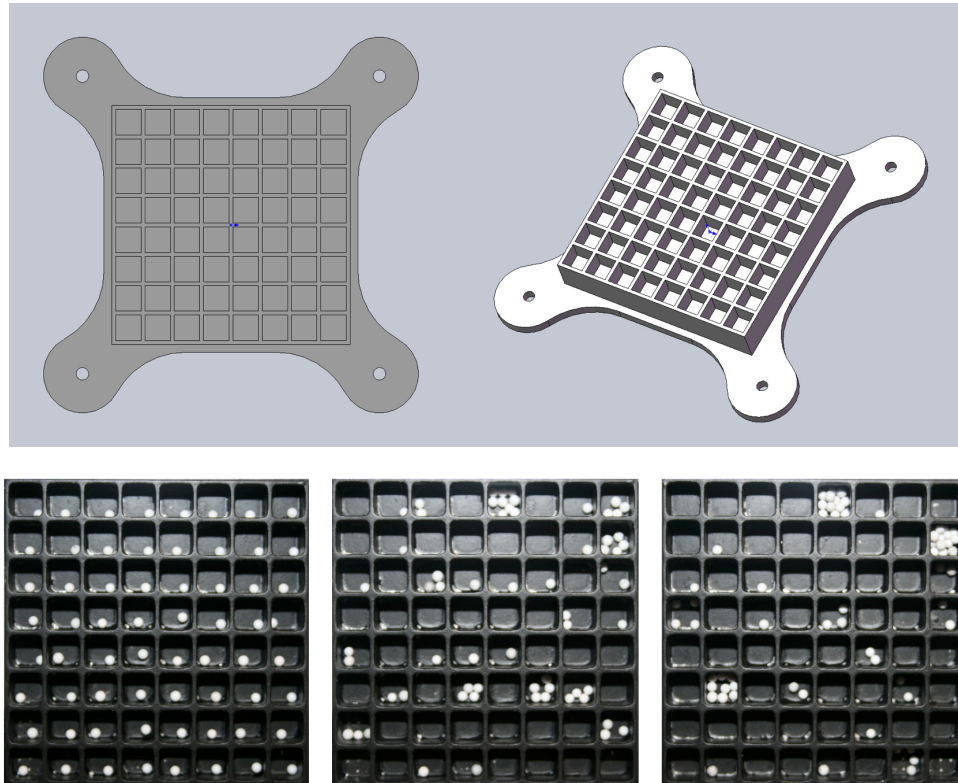


Coarsening dynamics of a granular lattice gas

E. Opsomer, M. Noirhomme, F. Ludewig and N. Vandewalle

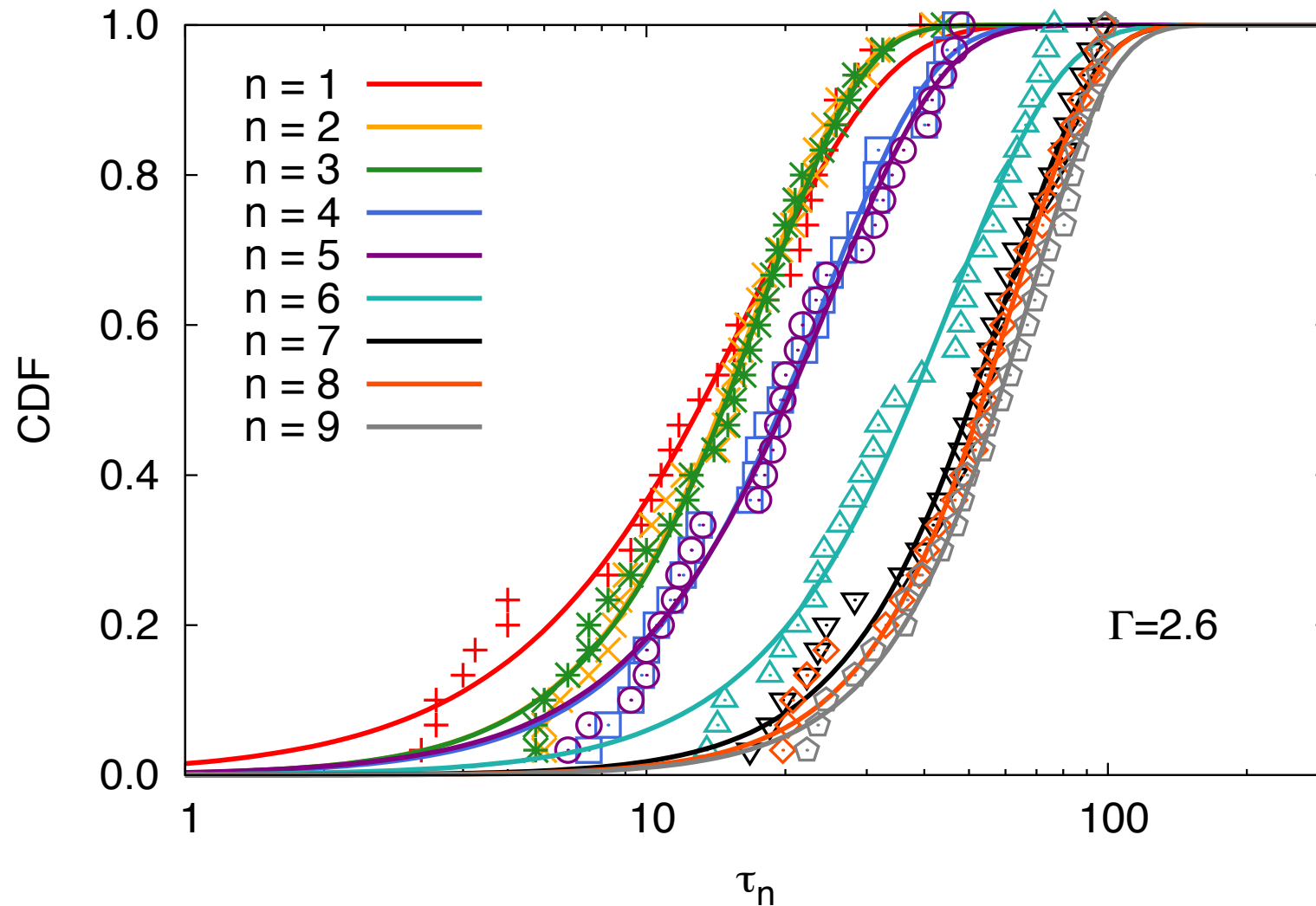


vibrations \rightarrow **coarsening**

two different regimes

From measurements to simulations

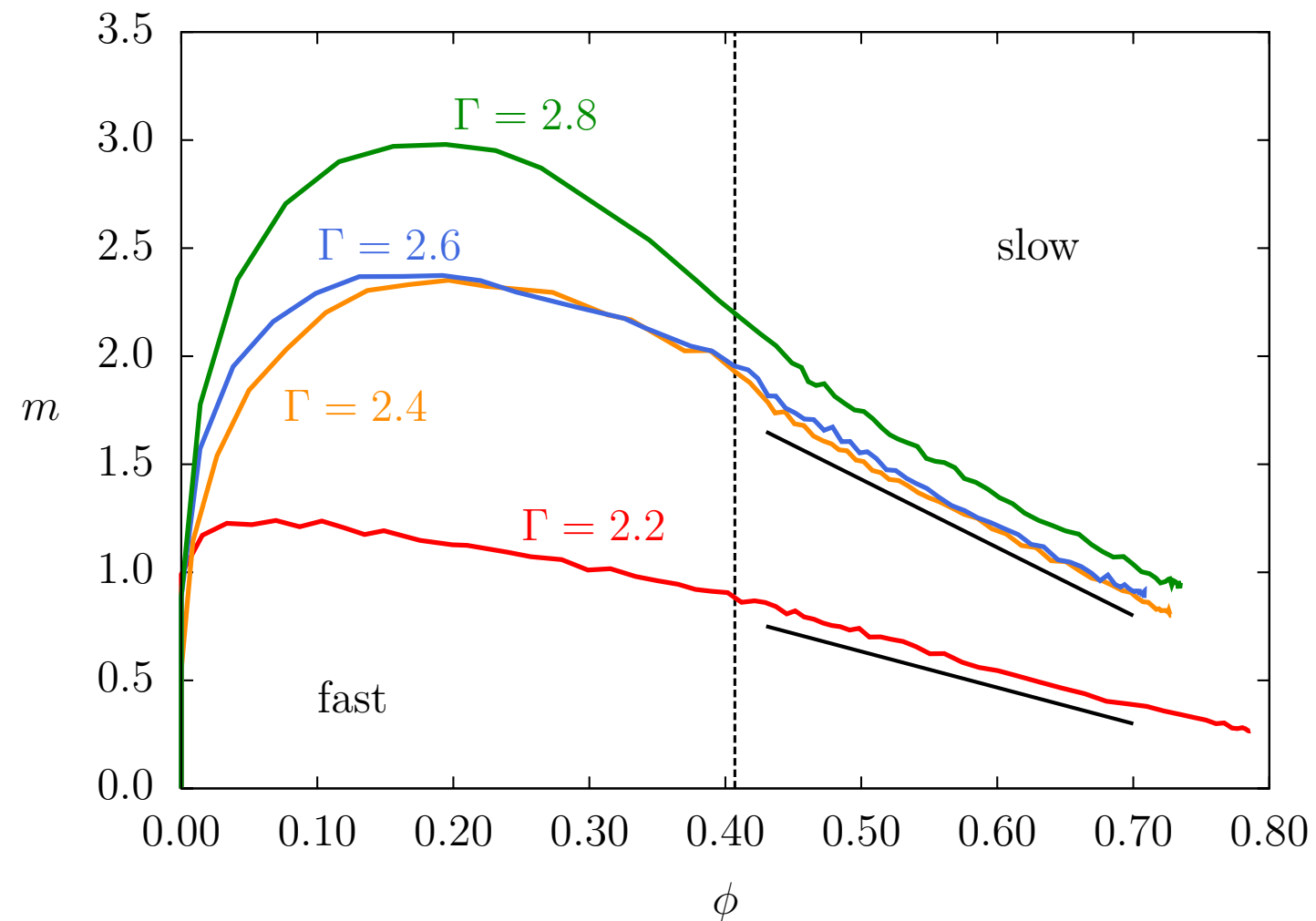
- We measure the *lifetimes* of the trap for different fillings.



- Lifetimes follow a *Weibull* distribution.
- *Random* lifetimes can be generated \rightarrow *cellular automaton*.

From simulations to theory

- *Microscopic* measurements thanks to the cellular automaton.



- Mobility *optimum* followed by a *linear* evolution.
- *Dynamics* in the slow regime can be *derived* from the mobility.