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What is the appropriate field theory?

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No computation can be performed without first identifying the underlying field theory. For some physical systems this is challenging.

Here we give examples where the effective action for a class of disordered systems is measured in simulations and experiments.

This allows one to identify, and finally construct, the appropriate field theory. While we apply these ideas to the quenched Edwards-Wilkinson and quenched KPZ equation, the method may be useful more generally.

Presenter: WIESE, Kay

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