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Quantum quenches & holography

Thursday, 16 April 2015 09:00 (40 minutes)

We study quantum quenches in a holographic framework, where the quenches involve varying the coupling of a relevant operator in the boundary theory. The time dependence of the new coupling is characterized by a transition time and the observables exhibit a universal scaling behaviour when this timescale becomes the smallest scale in the problem. The same scaling behaviour is found for mass quenches in free field theories and we argue that, in fact, it will apply for any theory which flows from a ultraviolet fixed point.

Presenter: MYERS, Robert

Session Classification: Morning session