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On Holographic Insulators and Supersolids

Tuesday, 14 April 2015 16:50 (30 minutes)

We find holographic insulators and superconductors with a hard gap and a discrete spectrum, from an Einstein-Maxwell-scalar system in a fractionalized phase. The ground state of the system has a hyperscaling violating geometry in the IR. We break the translational invariance by adding massless scalar fields responsible for momentum dissipation.

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