

Institut Henri Poincaré
11 rue Pierre et Marie Curie, 75231 Paris cedex 05
String Theory in Greater Paris

Rencontres Théoriciennes
“Supergravité, théorie des cordes et théorie M”

Jeudi 19 Octobre 2017, 10:00

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Holographic pinning in probe-brane models

In a holographic probe-brane model exhibiting a spontaneously spatially modulated CDW+SDW ground state, I will introduce explicit sources of symmetry breaking in the form of ionic and antiferromagnetic lattices. I will demonstrate pinning, in which the translational Goldstone mode is lifted by the introduction of explicit sources of translational symmetry breaking. The numerically computed optical conductivity fits very well to a Drude-Lorentz model with a small residual metallicity, precisely matching analytic formulas for the DC conductivity. I also demonstrate an instability of the striped phase in the presence of a large-amplitude ionic lattice.

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