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Pion condensation in holographic QCD

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I will discuss pion condensation in a hard-wall holographic model of hadrons with isospin chemical potential. The pions condense at a critical value of the chemical potential. If the scalar mode is not included in the effective theory, then the transition from the hadronic phase to the pion condensate phase is generically first order, unlike in chiral perturbation theory. I will explain this and related puzzles in the holographic picture.

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