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Finite size and infra-red effects in QCD plus QED

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When QED is added to QCD simulations we have to consider the effects of massless degrees of freedom (the photons), which bring new problems which we did not have to worry about in simulations of pure QCD. Related to this, we have questions about the boundary conditions - how can we reconcile periodic boundary conditions with Gauss's Law? What is the best way of treating zero modes of the photon field?

We combine data from our lattice simulations with perturbative calculations in the infra-red regime to ga

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