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Making Big Lattices Bigger: Bloch's Theorem and The Lattice Gluon Propagator (Part I)

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Exploiting the similarity between Bloch's theorem for electrons in crystalline solids and the problem of Landau gauge-fixing in Yang-Mills theory on a "replicated" lattice allows one to obtain essentially infinite-volume results from numerical simulations performed on regular-size lattices. We review our previous study of this subject, presenting some new preliminary results. A novel interpretation of the method is also proposed, which might improve our understanding of color confinement.

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