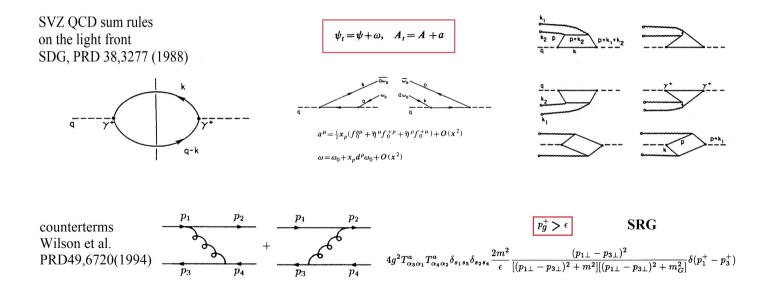
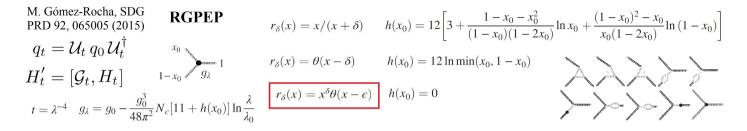
Vacuum in the front form of QFT S. D. Głazek University of Warsaw

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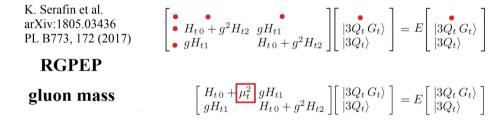
Summary: vacuum \rightarrow cutoff \rightarrow counterterms \rightarrow gluon mass \rightarrow hadrons



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vacuum condensate \rightarrow in-hadron condensate \rightarrow effective Fock space (RGPEP) \rightarrow mass ansatz



Literature guide to vacuum in the RGPEP

SDG, PRD **38**, 3277 (1988) - SVZ vacuum in LF QCD K. G. Wilson *et al.*, PRD **49**, 6720 (1994) - LF vacuum and counterterms in QCD SDG, K. G. Wilson, PRD **57**, 3558 (1998) - bound states from as. free Hamiltonians SDG, PRD **63**, 116006 (2001) - effective dynamics of gluons in the RGPEP SDG, T. Masłowski, PRD **65**, 065011 (2002) - eff. Poincaré algebra in the RGPEP SDG, APPB **42**, 1933 (2011) - the RGPEP vacuum condensate \rightarrow hadron condensate SDG, APPB **43**, 1843 (2012) - new non-perturbative formulation of the RGPEP SDG, APPB **87**, 125032 (2013) - fermion mass mixing without vacuum in the RGPEP M. Gómez-Rocha, SDG, PRD **92**, 065005 (2015) - as. freedom with the new RGPEP SDG, M. Gómez-Rocha, J. More, K. Serafin, PLB **773**, 172 (2017) - condensate \rightarrow baryons K. Serafin, M. Gómez-Rocha, J. More, SDG, arXiv:1805.03436 - gluon mass \rightarrow baryons

