

## Exploring the infrared Landau gauge propagators using large asymmetric lattices

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Abstract: We report on the infrared limit of the quenched lattice Landau gauge gluon propagator computed from large asymmetric lattices. In particular, the compatibility of the pure power law infrared solution  $(q^2)^{2\kappa}$  of the Dyson-Schwinger equations is investigated and the exponent  $\kappa$  is measured. The lattice data favours  $\kappa \sim 0.52$ , which would imply a vanishing zero momentum gluon propagator as predicted by the Kugo-Ojima confinement mechanism and the Zwanziger horizon condition. Preliminary results for the ghost propagator will also be shown.