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Stability structure of the GLR equation

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We investigate the stability of the saturation regime of the Gribov-Levin-Ryskin equation against azimuthal perturbations, and argue that the appearance of unstable modes could lead to the “spontaneous symmetry breaking” of azimuthal symmetry in high energy pp and AA collisions. We discuss the phenomenology of this hypothesis in light of the “harmonic flow” observable seen in heavy ion collisions.

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