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The shape of the proton at high energies

Friday, 5 December 2014 15:00 (20 minutes)

We present an event-by-event study of the spatial structure of the fluctuating gluon fields inside a proton as well as their x-dependence using the JIMWLK renormalization group equation. We discuss how event-by-event fluctuations of the protons internal structure can generate the observed azimuthal anisotropies in p+A collisions and how these fluctuations can be constrained from e+p/A experiments.

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