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Crossing the bridge from BFKL to saturation.

In hadron collisions, and especially heavy ion collisions, the parton density grows as a function of center of mass energy. At large center of mass energy, when relatively small transverse momentum is involved, this first leads to the perturbative resummation of large logarithms. The dominant contribution to this evolution is the BFKL Pomeron. As the center of mass energy continues to increase, parton densities grow, saturate, and the physics is determined by non-linear interactions. This is described by the BK-JIMWLK equation. By matching BFKL calculations to those done with TMDs and the CGC, we present progress on modeling the transitional behavior between the linear and non-linear high energy behavior of dijet processes.

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