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Leptoproduction of vector meson from the small x to the valence region

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Many progress have been made in recent years in the field of exclusive electroproduction of mesons. I will describe different theoretical descriptions of this family of processes within the frameworks of kt -factorization, collinear factorization or modified perturbative approach. We systematically compare theoretical expectations to existing data and discuss the impact of QCD evolution equations and the knowledge of meson distribution amplitudes. At last we make some predictions for typical kinematics of electron ion colliders.

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